**TABULAR AND GRAPHICAL PRESENTATION
OF 175 NEUTRON GROUP CONSTANTS DERIVED
FROM THE LLL EVALUATED NEUTRON DATA LIBRARY (ENDL)**

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April 1, 1976

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UCRL-50400 Vol. 16 Rev. 1

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Foreword

The UCRL-50400 series describes an integrated and computer-oriented system for the production and application of neutronics and photonics calculational constants.

The system must supply reliable up-to-date data, select specific types of data on request, provide output in a variety of forms — ultimately in the form of input to other computer codes — and function rapidly and efficiently. The system has now been developed to a point where these goals are being realized.

The UCRL-50400 series, *An Integrated System for Production of Neutronics and Photonics Calculational Constants*, comprises the following volumes:

- Vol. 1, *ENCIN: A System for Storage, Retrieval and Display of Experimental Neutron Data*, March 1974.
- Vol. 2, *A Bibliography of the Experimental Data of Neutron-Induced Interactions*, March 1974.
- Vol. 3, *An Index of the Experimental Data of Neutron-Induced Interactions*, March 1974.
- Vol. 4, *Evaluated Nuclear Cross-Section Library*, April 1971.
- Vol. 5, *CEYDS: A Nuclear Data-Processing Computer Program for Producing Calculational Constants*, September 1975.
- Vol. 6, *Tables and Graphs of Neutron Interactions for Neutrons From 1 keV to 10 MeV*, October 1975.
- Vol. 7, *Graphical Representation of Data for Neutron-Induced Interactions*, April 1974.
- Vol. 8, *Graphical Representation of Data for Neutron-Induced Interactions*, October 1974.
- Vol. 9, *Graphical Representation of Data for Neutron-Induced Interactions, Neutron-Induced Reactions, Neutron-Induced Reactions, and Neutron-Induced Reactions*, September 1970.
- Vol. 10, *Graphical Representation of Data for Neutron-Induced Interactions*, May 1974.
- Vol. 11, *Neutron-Induced Reactions and Neutron-Induced Reactions*, May 1972.
- Vol. 12, *An Index of Neutron-Induced Reactions*, July 1972.
- Vol. 13, *An Index of Neutron-Induced Reactions*, September 1972.
- Vol. 14, *ENCIN: A System for Neutron-Induced Reactions*, February 1976.
- Vol. 15, *Reduction and Evaluation of Neutron-Induced Reactions in the ENCL Evaluated Nuclear Data Library (ENCL)*, September 1975.

- Vol. 16, *Tabular and Graphical
Presentation of 175 Neutron
Group Constants Derived from the*

*LLL Evaluated Neutron Data
Library (ENDDL), April 1976.*

TABULAR AND GRAPHICAL PRESENTATION OF 175 NEUTRON GROUP CONSTANTS DERIVED FROM THE LLL EVALUATED NEUTRON DATA LIBRARY (ENDL)

Abstract

As of April 1, 1976, the LLL Evaluated Nuclear Data Library (ENDL) had been used to derive 175 neutron group constants. In this

volume, tables and graphs of the constants are presented along with the conventions used in their preparation.

Introduction

The evaluated nuclear data^{*} presented in this volume are used extensively at LLL for neutron and photon transport calculations.¹ The data are for either naturally occurring elements or isotopes. Group constants derived from the ENDL data include cross sections, local and total average energy deposits per neutron collision, total mean free

paths, transport-corrected mean free paths, and nu-bar (the mean number of secondary neutrons per fission). Free-atom cross sections have been assumed at all energies and standard temperature and pressure densities have been used in the mean free path calculations. In addition, spectrum-averaged cross sections are presented for a number of spectra.

Revisions

Since the 1975 edition of this volume new evaluations have been added for the following materials:

NAT _{Ni}	²⁴² Cm	²⁴⁸ Cm
²³¹ Th	²⁴³ Cm	²⁴⁹ Bk
²³³ Th	²⁴⁴ Cm	²⁴⁹ Cf
²⁴² Pu	²⁴⁵ Cm	²⁵⁰ Cf

^{*} See Vol. 15 in this series.

^{243}Pu ^{246}Cm ^{251}Cf

^{241}Am ^{247}Cm ^{252}Cf

^{243}Am

In addition, there have been substantive modifications in the evaluations of the following materials.

^{58}Ni ^{187}Re ^{238}U

^{93}Nb ^{197}Au ^{239}U

NAT_{Sn} ^{233}U ^{240}U

^{138}Ba ^{234}U ^{239}Pu

NAT_{Eu} ^{235}U ^{240}Pu

NAT_{Gd} ^{236}U ^{241}Pu

^{165}Ho ^{237}U Fission products

^{161}Ta

Group Data

DERIVATION OF GROUP CONSTANTS

The group constants mentioned in the Introduction have been obtained from the following functional form

$$\bar{X}(E_g) = \frac{\int_{E_g}^{E_{g+1}} X(E) dE}{\int_{E_g}^{E_{g+1}} dE},$$

where E_g is the energy of the lower group boundary and $X(E)$ is the quantity to be averaged. A more complete definition of $X(E)$ may be found in Appendix A.

GROUP CROSS SECTIONS

Group-averaged fission and elastic cross sections are taken directly

from the group library, as is nu-bar fission.

The total cross section is

$$\sigma_T(E_g) = \sum_{i=1}^N \sigma_i(E_g),$$

where $\sigma_i(E_g)$ is the i^{th} reaction cross section in group g and N is the number of reactions for the element or isotope.

The absorption* cross section is

$$\sigma_{\text{ABS}}(E_g) = \sum_{i=1}^{\text{NA}} \sigma_i(E_g),$$

*Note: The definition used in this volume does not conform to the usual interpretation of absorption for fissionable materials.

where $\sigma_i(E_g)$ is the i^{th} reaction cross section for which no secondary neutrons are emitted. NA is the number of such reactions.

The remainder cross section is

$$\sigma_{\text{REM}}(E_g) = \sum_{i=1}^{\text{NR}} \sigma_i(E_g),$$

where σ_i is the i^{th} cross section that emits at least one secondary neutron, not including the fission and elastic cross sections. NR is the number of such reactions. The remainder cross section includes

$$\sigma_{n,n'\gamma}, \sigma_{n,2n}, \sigma_{n,3n}, \sigma_{n,n'\gamma}, \sigma_{n,n'\gamma}, \dots$$

The gamma-ray production cross section is

$$\sigma_{\text{GP}}(E_g) = \sum_{i=1}^N \sigma_i(E_g) v_i(E_g)$$

where $\sigma_i(E_g)$ is the cross section that produces gamma rays for the i^{th} reaction and $v_i(E_g)$ is the multiplicity of gamma rays produced by that reaction. In some cases the total gamma-ray production cross section is available in the group library.

DERIVED GROUP DATA

The following calculations of group constants differ from the ones

in the previous section in that more than a simple summation is involved. The total mean free path is calculated from

$$\lambda = \frac{A}{\rho N_0 \sigma_T},$$

where ρ is the density in g/cm^3 , N_0 is 0.6022169, σ_T is the total cross section in barns (10^{-24}cm^2), and A is the atomic weight based on ^{12}C .

The transport-corrected mean free path is calculated from

$$\lambda_{\text{TR}} = \frac{A}{\rho N_0 [(1.0 - \bar{\mu}_{\text{lab}}) \sigma_e + \sigma_{\text{nonleastic}}]},$$

where $\bar{\mu}_{\text{lab}}$ is the average elastic scattering cosine in the laboratory system. In deriving $\bar{\mu}_{\text{lab}}$, our starting point was the output from the CLYDE code.² The code converts angular distributions into 32 equally probable angular bins in the center of mass. The center of mass cosines were converted to the laboratory system by

$$\mu_{\text{lab}} = \frac{1 + A^* \mu_{\text{cm}}}{\left(1 + 2A^* \mu_{\text{cm}} + A^{*2}\right)^{1/2}},$$

where μ_{cm} is the center of mass cosine, μ_{lab} is the corresponding

laboratory cosine, and A^* is the atomic weight in neutron mass units. The average elastic scattering cosine in the laboratory system ($\bar{\mu}_{lab}$) is then defined by a summation over the 32 equally probable bins.

$$\bar{\mu}_{lab} = \int \mu_{lab} p(\mu_{lab}) d\mu_{lab} \\ \approx \frac{1}{32} \sum_{n=1}^{32} \frac{1}{2} (\mu_{lab_n} + \mu_{lab_{n+1}}),$$

where $p(\mu_{lab})$ is a normalized angular distribution.

The total energy deposits per collision are obtained from

$$E_T(E_g) = \frac{\sum_{i=1}^N \sigma_i(E_g) E_T(E_g)_i}{\sum_{i=1}^N \sigma_i(E_g)},$$

where $\sigma_i(E_g)$ is the cross section for the i^{th} reaction and $E_T(E_g)_i$ is the energy deposited by the i^{th} reaction excluding the kinetic energy of the emitted secondary neutrons. N is the number of reactions for an element or isotope.

The local energy deposits are given by

$$E_L(E_g) = \frac{\sum_{i=1}^N \sigma_i(E_g) E_L(E_g)_i}{\sum_{i=1}^N \sigma_i(E_g)},$$

where $\sigma_i(E_g)$ is as defined above. $E_L(E_g)_i$ is the energy deposited by the i^{th} reaction excluding the kinetic energy of the secondary neutrons and the energy of the induced gamma rays.

The total and local energy deposits presented here only include instantaneous energy release. For subsequent energy deposits due to radioactive decay, see Ref. 3.

The spectrum averages and resonance integrals are those one would obtain from the multi-group data rather than from the ENDL library. The spectrum average values for each cross section $\sigma(E)$ is defined by:

$$\begin{aligned} \sigma_i(E) &= \int_{E_{i-1}}^{E_i} \sigma_i(E) \phi(E) dE \\ &= \sum_{j=1}^N \sigma_i(E_j) \int_{E_{i-1}}^{E_i} \phi(E) dE \\ &= \sum_{j=1}^N \sigma_i(E_j) \frac{1}{E_i - E_{i-1}} \int_{E_{i-1}}^{E_i} \phi(E) dE \end{aligned}$$

where σ_i is the multi-group value of the cross section in group i and (E_i^*, E_{i+1}^*) is that portion of the

group that lies in (E_{1j}, E_{2j}) . The weighting spectra and energy ranges used are shown in Table 1.

The spectrum averaged $\bar{\nu}$ is defined as:

$$\langle \bar{\nu} \rangle = \langle \bar{\nu} \sigma_{\text{fission}} \rangle / \langle \sigma_{\text{fission}} \rangle .$$

The resonance integral for each cross section is defined by:

$$R.I. = \int_{0.5 \text{ eV}}^{20 \text{ MeV}} \sigma(E) \frac{dE}{E} = \sum_i \sigma_i \ln \left(\frac{E_{i+1}^*}{E_i^*} \right) .$$

Table 1. Weighting spectra and energy ranges.

Weighting Spectrum	Energy Range (eV)	Weighting Spectrum	Energy Range (eV)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)
$\phi(E)$	(E_1, E_2)	$\phi(E)$	(E_1, E_2)

Discussion of Tables and Plots

Several conventions have been used to prepare the tables and plots of the neutron group constants. In the tables, for example, a blank has been left if the data are zero. In the plots, the group-averaged data are presented as histograms. If the cross section for any reaction is

zero in all groups, it is not plotted. Values less than 10^{-5} barns and 10^{-6} MeV/collision are tabulated but not plotted. Generally the data are plotted on a log-log scale, unless the cross section range is small, in which case a log-linear scale is used.

Production of the Volume

The graphs and tables in this volume were produced by the program

RED15.⁵ The program required a single noninteractive pass through the

175 group library (using less than $\sqrt{2}$ min of CDC-7600 time) to produce a single roll of 35-mm film containing all graphs and tables in correct order, ready for photo-offset printing.

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2. R. J. Doyas *et al.*, *CLYDE, A Code for the Production of Calculational Constants From Nuclear Data*, Lawrence Livermore Laboratory, Rept. UCRL-50400, Vol. 5 (1975).
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4. C. R. Weisbin and R. J. Labauve, *Specifications of a Generally Useful Multi-Group Structure for Neutron Transport*, Los Alamos National Laboratory, Los Alamos, New Mexico, Rept. LA-5277-MS (1973).
5. D. E. Cullen, RED16 (LLL Internal Program) (1975).

Appendix A. ENDL Conventions

A tabulation of the ENDL conventions is presented in this section. A discussion of the conventions can be found in Vol. 4 of this series. Table A1 lists the particle designator dictionary, which is used to identify the incident and outgoing particles. Table A2 lists the reaction property designator, which

specifies the property of the reaction being defined. Tables A3A and A3B list the reaction descriptor (C number), which identifies the reaction when taken with the incident particle designator. Table A4 lists reaction modifiers, which are used as needed for particular additional descriptions.

Table A1. Particle designator,^a y.

y	Particle
0	"not applicable" or none ^b
1	n
2	p
3	d
4	t
5	³ He
6	α
7	γ
8	β

^aUsed to identify the incident particle, y_i , and/or the outgoing particle, y_o , to which any distribution data (e.g., energy, angle) pertains.

^bIf no property (e.g., energy distribution) is given, the y_0 is defined as zero.

Table A2. Reaction property designator (I number).

I	Reaction property	Definition
0	Integrated cross sections (barns; also related parameters)	$\sigma(E)$
1 ^a	Angular distributions, normalized probabilities (per unit cosine)	$p(E, \mu)$
2 ^a	Angular distributions, normalized Legendre coefficients; i.e., $g^0(E) \equiv 1.0$	$g^{\ell'}(E)$
3	Energy-angle distributions, normalized probabilities (per MeV cosine)	$p(E \rightarrow \mu, E')$
4	Energy-angle distributions, normalized Legendre coefficients. Note that $\pi^0(E \rightarrow E') = p(E \rightarrow E')$, the usual normalized energy probability (per MeV)	$\pi^{\ell'}(E \rightarrow E')$
5	Nuclear temperature tables	$T(E)$
6 ^b	Cumulative probability distribution	$I(E')$
7	Average neutrons per fission (prompt or delayed)	$\bar{\nu}(E)$
8	Histogram form of energy distribution	$P(E, E'_1) = P(E, E'_2)$
10	Total average energy deposit (MeV)	$\bar{E}(E)$
11	Local average energy deposit (MeV)	$\bar{E}_{loc}(E)$
80	Maxwellian average reaction rates (barn-cm/sh) ^c	$\overline{\sigma v}(kT)$
99	Supplemental parameters	See A3B

^a Angular data are expressed in the center of mass (CM) system for all two-body breakups. Multibody breakups are, of course, in the lab (i) system.

^b If I = 6 data are accompanied by temperature tables (I = 5), the I = 6 distribution pertains to the first energy entry in the I = 5 tables.

^c sh = 1 shake = 10^{-8} sec.

Table A3A. Reaction descriptors (C numbers).

C	Reaction type	C	Reaction type	C	Reaction type	C	Reaction type
Miscellaneous data	1 ^d Total	20 (v,n ⁺ pγ)	Charged particle and/or particle production	20 (γ,pγ)	Auxiliary data	00	
	1 ^d Absorption	1 (v,pn ⁺ γ)		1 (v,dγ)		1	
	3 ^d Nonelastic	2 (v,n ⁺ dγ)		2 (v,tγ)		2	
	4 ^d Nonelastic neutron emission	3 (γ,n ⁺ 2nγ)		3 (γ,t ⁺ 2nγ)		3	
		4 (v,n ⁺ tγ)		4 (v, ³ Heγ)		4	
		5 (γ,n ⁺ ³ Heγ)		5 (v,γ)		5	Activation
	5	6 (γ,n ⁺ γ)		6 (v,γ)		6	Fractional yield to (Z1,A1) by any fission process
	6	7 (γ,n ⁺ 3nγ)		7		7	
	7	8 (v,n ⁺ t2nγ)		8		8	
	8	9		9		9	
Neutrons + γ only	10 Elastic	30	Particle or γ production	30 (v,Xp)	Atomic	70	Total
	1 (v,n ⁺ γ)	1		1 (v,Xd)		1	Coherent scattering
	2 (γ,2nγ)	2		2 (v,Xt)		2	Incoherent scattering
	3 (v,3nγ)	3		3 (v,X ³ He)		3	Photoelectric
	4 (γ,4nγ)	4		4 (v,Xγ)		4	Pair production
	5 (γ,Xf) (total fission)	5		5 (v,Xγ)		5	
	6 (γ,n ⁺ tγ)	6		6 (v,Xn)		6	
	7 (γ,2nf)	7		7		7	
	8 (γ,3nf)	8		8		8	
		9		9		9	
						80	Open
						99	

^dNot usually stored in the system, but obtained for output display by combining other data.

Table A3B. Specification of the C number or supplemental parameters (I = 99).

C Interval	Incident particle
1 - 49	Neutrons
50 - 74	Photons
75 - 99	Charged particle
C Number	Parameters
1	Thermal scattering law, $S(\alpha, \beta)$
10 n, e1	Resonance data (background C/S)
11 n, γ	
12 n, f	
13 n, p	
14 n, d	
15 n, t	
16 n, ^3He	
17 n, α	
18 n, x	
20	Resolved resonance parameters
21	Unresolved resonance parameters
51	Form factors (coherent scattering), G(q)
52	Form factors (incoherent scattering), K(q)

Table A4. Reaction modifier, S.

S	Reaction parameter	X-field definition
00 or No X-field blank data		--
01	Level excitation ^a	W_1 (MeV)
03	γ -ray production	E_γ (MeV)
04	Material temperature	kT (MeV) (for thermal scattering models)
05	Activation ^b	$(ZA)_2$, W_2 (MeV) τ_2 (s)
06	Bulk information for Doppler broadening or self-shielding	kT (MeV), ND ($\times 10^{-24}$), Th (cm) $\bar{v}$ (cm/shake) ^c
07	Delayed group half-lives	$\tau_{1/2}$ (s)
08	Completely correlated second neutron	W_i (MeV) level in A (cluster model)

^a X_1 corresponds to the initial nucleus, X_2 to the second nucleus in a sequence of de-excitations, etc.

^b $(ZA)_2 = 1000Z_2 + A_2$ of product nucleus.

^cThese are self-shielding and boundary motion parameters from a pre-processor code (material temperature, atom density, region thickness, and boundary speed, respectively).

Appendix B. Neutron Group Constants

04/12/76

ENDL 175 Group Neutron Constants

O-Nu-1

04/12/76

ENDL 175 Group Neutron Constants

O-Nu-1

04/12/76

ENDL 175 Group Neutron Constants

0-Nu-1

ATOMIC WEIGHT		1.0087 + 0		DENSITY 1.0000 + 1 (GRAMS/CC)				
ENERGY MEV	NFP (CF)	TOTAL TRANSPORT		CROSS SECTION (BARNS)			ENERGY DEPOSIT (MEV)	
		TOTAL	ELASTIC	ABSORB IN REMAINDER	GAM-PROD.	TOTAL	LOCAL	
1.307-9	2.185-2	6.553-2	7.667+0	7.667+0		1.633-9	1.633-9	
5.227-9	2.185-2	6.553-2	7.667+0	7.667+0		6.534-9	6.534-9	
2.091-8	2.185-2	6.553-2	7.667+0	7.667+0		1.339-8	1.339-8	
3.257-8	2.185-2	6.553-2	7.667+0	7.667+0		1.993-8	1.993-8	
4.704-8	2.185-2	6.553-2	7.667+0	7.667+0		3.256-8	3.256-8	
8.322-8	2.185-2	6.553-2	7.667+0	7.667+0		5.347-8	5.347-8	
1.307-7	2.185-2	6.553-2	7.657+0	7.657+0		7.971-8	7.971-8	
1.682-7	2.185-2	6.553-2	7.667+0	7.667+0		1.111-7	1.111-7	
2.561-7	2.185-2	6.553-2	7.667+0	7.667+0		1.477-7	1.477-7	
3.345-7	2.185-2	6.553-2	7.667+0	7.667+0		1.895-7	1.895-7	
4.234-7	2.185-2	6.553-2	7.667+0	7.667+0		2.329-7	2.329-7	
5.123-7	2.185-2	6.553-2	7.667+0	7.667+0		3.162-7	3.162-7	
7.522-7	2.185-2	6.553-2	7.667+0	7.667+0		4.822-7	4.822-7	
1.176-6	2.185-2	6.553-2	7.667+0	7.667+0		6.717-7	6.717-7	
1.511-6	2.185-2	6.553-2	7.667+0	7.667+0		9.003-7	9.003-7	
2.091-6	2.185-2	6.553-2	7.667+0	7.667+0		1.208-6	1.208-6	
2.741-6	2.185-2	6.553-2	7.667+0	7.667+0		1.569-6	1.569-6	
3.533-6	2.185-2	6.553-2	7.667+0	7.667+0		2.059-6	2.059-6	
4.704-6	2.185-2	6.553-2	7.667+0	7.667+0		2.591-6	2.591-6	
5.658-6	2.185-2	6.553-2	7.667+0	7.667+0		3.099-6	3.099-6	
5.737-6	2.185-2	6.553-2	7.667+0	7.667+0		3.765-6	3.765-6	
8.322-6	2.185-2	6.553-2	7.667+0	7.667+0		4.485-6	4.485-6	
9.620-6	2.185-2	6.553-2	7.667+0	7.667+0		5.158-6	5.158-6	
1.101-5	2.185-2	6.553-2	7.667+0	7.667+0		6.020-6	6.020-6	
1.307-5	2.185-2	6.553-2	7.667+0	7.667+0		6.938-6	6.938-6	
1.468-5	2.185-2	6.553-2	7.667+0	7.667+0		7.624-6	7.624-6	
1.581-5	2.185-2	6.553-2	7.667+0	7.667+0		8.349-6	8.349-6	
1.758-5	2.185-2	6.553-2	7.667+0	7.667+0		9.100-6	9.100-6	
1.982-5	2.185-2	6.553-2	7.667+0	7.667+0		9.891-6	9.891-6	
2.075-5	2.185-2	6.553-2	7.667+0	7.667+0		1.088-5	1.088-5	
2.277-5	2.185-2	6.553-2	7.667+0	7.667+0		1.173-5	1.173-5	
2.417-5	2.185-2	6.553-2	7.667+0	7.667+0		1.245-5	1.245-5	
2.561-5	2.185-2	6.553-2	7.667+0	7.667+0		1.318-5	1.318-5	
2.710-5	2.185-2	6.553-2	7.667+0	7.667+0		1.393-5	1.393-5	
2.862-5	2.185-2	6.553-2	7.667+0	7.667+0		1.451-5	1.451-5	
2.940-5	2.185-2	6.553-2	7.667+0	7.667+0		1.510-5	1.510-5	
3.099-5	2.185-2	6.553-2	7.667+0	7.667+0		1.611-5	1.611-5	
3.345-5	2.185-2	6.553-2	7.667+0	7.667+0		1.737-5	1.737-5	
3.601-5	2.185-2	6.553-2	7.667+0	7.667+0		1.867-5	1.867-5	
3.865-5	2.185-2	6.553-2	7.667+0	7.667+0		1.978-5	1.978-5	
4.048-5	2.185-2	6.553-2	7.667+0	7.667+0		2.070-5	2.070-5	
4.234-5	2.185-2	6.553-2	7.667+0	7.667+0		2.141-5	2.141-5	
4.329-5	2.185-2	6.553-2	7.667+0	7.667+0		2.237-5	2.237-5	
4.619-5	2.185-2	6.553-2	7.667+0	7.667+0		2.334-5	2.334-5	
4.717-5	2.185-2	6.553-2	7.667+0	7.667+0		2.409-5	2.409-5	
4.918-5	2.185-2	6.553-2	7.667+0	7.667+0		2.510-5	2.510-5	
5.123-5	2.185-2	6.553-2	7.667+0	7.667+0		2.614-5	2.614-5	
5.332-5	2.185-2	6.553-2	7.667+0	7.667+0		2.746-5	2.746-5	
5.654-5	2.185-2	6.553-2	7.667+0	7.667+0		2.854-5	2.854-5	
5.763-5	2.185-2	6.553-2	7.667+0	7.667+0		2.965-5	2.965-5	
6.097-5	2.185-2	6.553-2	7.667+0	7.667+0		3.105-5	3.105-5	
6.325-5	2.185-2	6.553-2	7.667+0	7.667+0		3.220-5	3.220-5	
6.557-5	2.185-2	6.553-2	7.667+0	7.667+0		3.308-5	3.308-5	
6.674-5	2.185-2	6.553-2	7.667+0	7.667+0		3.427-5	3.427-5	
7.034-5	2.185-2	6.553-2	7.667+0	7.667+0		3.547-5	3.547-5	
7.155-5	2.185-2	6.553-2	7.667+0	7.667+0		3.671-5	3.671-5	
7.527-5	2.185-2	6.553-2	7.667+0	7.667+0		3.827-5	3.827-5	
7.780-5	2.185-2	6.553-2	7.667+0	7.667+0		3.922-5	3.922-5	
7.908-5	2.185-2	6.553-2	7.667+0	7.667+0		4.019-5	4.019-5	
8.167-5	2.185-2	6.553-2	7.667+0	7.667+0		4.149-5	4.149-5	
8.431-5	2.185-2	6.553-2	7.667+0	7.667+0		4.316-5	4.316-5	
8.834-5	2.185-2	6.553-2	7.667+0	7.667+0		4.485-5	4.485-5	

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ATOMIC WEIGHT 1.0087+0		DENSITY 1.0000+1 GRAMS/CC	
ENERGY		CROSS SECTION (BARN)	
MEV	MFP (CM)	TOTAL ELASTIC ABSORP% REMAINDER GAM-PROD.	ENERGY DEPOSIT (MEV)
TOTAL	TRANSPORT	TOTAL	TOTAL LOCAL
9.108-5	2.185-2 6.553-2	7.667+0 7.667+0	4.623-5 4.623-5
9.386-4	2.185-2 6.553-2	7.667+0 7.667+0	4.783-5 4.783-5
9.668-3	2.185-2 6.553-2	7.667+0 7.667+0	4.870-5 4.870-5
9.611-5	2.185-2 6.553-2	7.667+0 7.667+0	5.014-5 5.014-5
1.025-4	2.185-2 6.553-2	7.667+0 7.667+0	5.309-5 5.309-5
1.099-4	2.185-2 6.553-2	7.667+0 7.667+0	5.688-5 5.688-5
1.175-4	2.185-2 6.552-2	7.667+0 7.667+0	6.080-5 6.080-5
1.256-4	2.185-2 6.553-2	7.667+0 7.667+0	6.485-5 6.485-5
1.338-4	2.185-2 6.553-2	7.667+0 7.667+0	6.960-5 6.960-5
1.403-4	2.185-2 6.553-2	7.667+0 7.667+0	7.291-5 7.291-5
1.511-4	2.185-2 6.553-2	7.667+0 7.667+0	7.770-5 7.770-5
1.601-4	2.185-2 6.553-2	7.667+0 7.667+0	8.236-5 8.236-5
1.694-4	2.185-2 6.553-2	7.667+0 7.667+0	8.706-5 8.706-5
1.789-4	2.185-2 6.553-2	7.667+0 7.667+0	9.190-5 9.190-5
1.887-4	2.185-2 6.553-2	7.667+0 7.667+0	9.686-5 9.686-5
1.988-4	2.185-2 6.553-2	7.667+0 7.667+0	1.020-4 1.020-4
2.091-4	2.185-2 6.553-2	7.667+0 7.667+0	1.208-4 1.208-4
2.741-4	2.185-2 6.553-2	7.667+0 7.667+0	1.502-4 1.502-4
3.267-4	2.185-2 6.553-2	7.667+0 7.667+0	1.769-4 1.769-4
3.811-4	2.185-2 6.553-2	7.667+0 7.667+0	2.129-4 2.129-4
4.704-4	2.185-2 6.553-2	7.667+0 7.667+0	2.424-4 2.424-4
4.991-4	2.185-2 6.553-2	7.667+0 7.667+0	2.662-4 2.662-4
5.658-4	2.185-2 6.553-2	7.667+0 7.667+0	2.924-4 2.924-4
6.042-4	2.185-2 6.553-2	7.667+0 7.667+0	3.102-4 3.102-4
6.357-4	2.185-2 6.553-2	7.667+0 7.667+0	3.381-4 3.381-4
7.155-4	2.185-2 6.553-2	7.667+0 7.667+0	3.869-4 3.869-4
8.322-4	2.185-2 6.553-2	7.667+0 7.667+0	4.375-4 4.375-4
9.177-4	2.185-2 6.553-2	7.667+0 7.667+0	4.940-4 4.940-4
1.056-3	2.185-2 6.554-2	7.666+0 7.666+0	5.513-4 5.513-4
1.307-3	2.185-2 6.556-2	7.664+0 7.664+0	7.220-4 7.220-4
1.561-3	2.186-2 6.558-2	7.662+0 7.662+0	8.657-4 8.657-4
1.882-3	2.187-2 6.560-2	7.659+0 7.659+0	1.023-3 1.023-3
2.208-3	2.188-2 6.562-2	7.657+0 7.657+0	1.192-3 1.192-3
2.561-3	2.188-2 6.564-2	7.654+0 7.654+0	1.375-3 1.375-3
2.940-3	2.189-2 6.567-2	7.651+0 7.651+0	1.571-3 1.571-3
3.345-3	2.190-2 6.570-2	7.648+0 7.648+0	1.780-3 1.780-3
3.777-3	2.191-2 6.573-2	7.644+0 7.644+0	2.003-3 2.003-3
4.234-3	2.193-2 6.579-2	7.637+0 7.637+0	2.499-3 2.499-3
4.763-3	2.197-2 6.590-2	7.624+0 7.624+0	3.322-3 3.322-3
5.273-3	2.202-2 6.605-2	7.607+0 7.607+0	4.443-3 4.443-3
1.025-2	2.218-2 6.651-2	7.552+0 7.552+0	6.335-3 6.335-3
1.511-2	2.246-2 6.698-2	7.458+0 7.458+0	9.000-3 9.000-3
2.091-2	2.274-2 6.737-2	7.386+0 7.386+0	1.184-2 1.184-2
2.646-2	2.292-2 6.748-2	7.309+0 7.309+0	1.478-2 1.478-2
3.267-2	2.310-2 6.754-2	7.251+0 7.251+0	1.805-2 1.805-2
3.953-2	2.323-2 6.741-2	7.210+0 7.210+0	2.164-2 2.164-2
4.704-2	2.335-2 6.720-2	7.173+0 7.173+0	2.616-2 2.616-2
5.761-2	2.351-2 6.697-2	7.126+0 7.126+0	3.191-2 3.191-2
7.002-2	2.368-2 6.674-2	7.073+0 7.073+0	3.830-2 3.830-2
8.322-2	2.388-2 6.609-2	7.015+0 7.015+0	4.553-2 4.553-2
9.891-2	2.482-2 6.757-2	6.749+0 6.749+0	5.730-2 5.730-2
1.307-1	2.690-2 7.317-2	6.225+0 6.225+0	7.797-2 7.797-2
1.820-1	2.853-2 7.760-2	5.870+0 5.870+0	9.731-2 9.731-2
2.075-1	2.963-2 8.057-2	5.694+0 5.694+0	1.122-1 1.122-1
2.417-1	3.069-2 8.347-2	5.457+0 5.457+0	1.281-1 1.281-1
2.710-1	3.146-2 8.555-2	5.325+0 5.325+0	1.412-1 1.412-1
2.940-1	3.236-2 8.802-2	5.175+0 5.175+0	1.571-1 1.571-1
3.345-1	3.343-2 9.092-2	5.010+0 5.010+0	1.780-1 1.780-1
3.777-1	3.450-2 9.384-2	4.854+0 4.854+0	2.002-1 2.002-1
4.234-1	3.592-2 9.768-2	4.664+0 4.664+0	2.337-1 2.337-1
4.723-1	3.787-2 1.030-1	4.423+0 4.423+0	2.859-1 2.859-1
5.325-1	3.977-2 1.073-1	4.212+0 4.212+0	3.461-1 3.461-1

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ATOMIC WEIGHT 1.00871 0		DENSITY 1.0000 1 GRAMS/CC					
ENERGY	MFP (CM)	CROSS SECTION (BARNES)				ENERGY DEPOSITION (MEV)	
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER GAM-PROD.	TOTAL	LOCAL
7.527-1	4.158-2	1.131-1	4.028+0	4.028+0		4.088-1	4.088-1
8.834-1	4.333-2	1.178-1	3.866+0	3.866+0		4.767-1	4.767-1
1.025+0	4.681-2	1.273-1	3.578+0	3.578+0		5.495-1	5.495-1
1.176+0	5.149-2	1.400-1	3.253+0	3.253+0		6.279-1	6.279-1
1.338+0	5.635-2	1.533-1	2.972+0	2.972+0		7.116-1	7.116-1
1.511+0	6.129-2	1.667-1	2.733+0	2.733+0		8.004-1	8.004-1
1.694+0	6.631-2	1.803-1	2.526+0	2.526+0		8.946-1	8.946-1
1.887+0	7.144-2	1.943-1	2.344+0	2.344+0		9.938-1	9.938-1
2.091+0	7.666-2	2.085-1	2.185+0	2.185+0		1.098+0	1.098+0
2.305+0	8.214-2	2.234-1	2.039+0	2.039+0		1.208+0	1.208+0
2.530+0	8.727-2	2.373-1	1.919+0	1.919+0		1.317+0	1.317+0
2.741+0	9.291-2	2.526-1	1.803+0	1.803+0		1.437+0	1.437+0
3.011+0	9.892-2	2.690-1	1.693+0	1.693+0		1.569+0	1.569+0
3.267+0	1.047-1	2.847-1	1.600+0	1.600+0		1.699+0	1.699+0
3.533+0	1.107-1	3.010-1	1.513+0	1.513+0		1.835+0	1.835+0
3.811+0	1.163-1	3.161-1	1.441+0	1.441+0		1.969+0	1.969+0
4.089+0	1.225-1	3.331-1	1.367+0	1.367+0		2.115+0	2.115+0
4.396+0	1.290-1	3.509-1	1.293+0	1.293+0		2.274+0	2.274+0
4.704+0	1.352-1	3.676-1	1.239+0	1.239+0		2.423+0	2.423+0
4.991+0	1.425-1	3.874-1	1.175+0	1.175+0		2.585+0	2.585+0
5.353+0	1.509-1	4.102-1	1.110+0	1.110+0		2.752+0	2.752+0
5.658+0	1.600-1	4.350-1	1.047+0	1.047+0		2.924+0	2.924+0
6.042+0	1.692-1	4.599-1	9.901-1	9.901-1		3.102+0	3.102+0
6.367+0	1.781-1	4.841-1	9.406-1	9.406-1		3.275+0	3.275+0
6.737+0	1.883-1	5.119-1	8.894-1	8.894-1		3.442+0	3.442+0
7.156+0	1.986-1	5.397-1	8.436-1	8.436-1		3.675+0	3.675+0
7.548+0	2.084-1	5.665-1	8.036-1	8.036-1		3.964+0	3.964+0
7.910+0	2.181-1	5.926-1	7.681-1	7.681-1		4.057+0	4.057+0
8.322+0	2.294-1	6.235-1	7.300-1	7.300-1		4.276+0	4.276+0
8.787+0	2.400-1	6.522-1	6.979-1	6.979-1		4.490+0	4.490+0
9.177+0	2.514-1	6.831-1	6.663-1	6.663-1		4.709+0	4.709+0
9.665+0	2.633-1	7.155-1	6.361-1	6.361-1		4.945+0	4.945+0
1.012+1	2.755-1	7.485-1	6.080-1	6.080-1		5.175+0	5.175+0
1.058+1	2.882-1	7.830-1	5.811-1	5.811-1		5.399+0	5.399+0
1.101+1	3.011-1	8.180-1	5.562-1	5.562-1		5.619+0	5.619+0
1.155+1	3.151-1	8.558-1	5.316-1	5.316-1		5.884+0	5.884+0
1.199+1	3.292-1	8.915-1	5.103-1	5.103-1		6.122+0	6.122+0
1.250+1	3.430-1	9.316-1	4.883-1	4.883-1		6.391+0	6.391+0
1.307+1	3.581-1	9.724-1	4.678-1	4.678-1		6.652+0	6.652+0
1.354+1	3.687-1	1.001+0	4.543-1	4.543-1		6.851+0	6.851+0
1.386+1	3.769-1	1.023+0	4.444-1	4.444-1		6.999+0	6.999+0
1.413+1	3.847-1	1.045+0	4.353-1	4.353-1		7.135+0	7.135+0
1.441+1	3.930-1	1.067+0	4.262-1	4.262-1		7.272+0	7.272+0
1.468+1	4.034-1	1.095+0	4.152-1	4.152-1		7.467+0	7.467+0
1.519+1	4.180-1	1.133+0	4.007-1	4.007-1		7.734+0	7.734+0
1.575+1	4.349-1	1.181+0	3.852-1	3.852-1		8.021+0	8.021+0
1.633+1	4.510-1	1.224+0	3.714-1	3.714-1		8.313+0	8.313+0
1.692+1	4.674-1	1.269+0	3.583-1	3.583-1		8.611+0	8.611+0
1.752+1	4.853-1	1.317+0	3.451-1	3.451-1		8.913+0	8.913+0
1.813+1	5.024-1	1.363+0	3.334-1	3.334-1		9.221+0	9.221+0
1.875+1	5.285-1	1.434+0	3.169-1	3.169-1		9.685+0	9.685+0
2.000+1							
RESONANCE INTEGRALS		1.093+2	1.093+2				
MAXWELLIAN AVERAGES		7.667+0	7.667+0				
1/E AVERAGES		6.246+0	6.246+0				
FISSION AVERAGES		2.955+0	2.955+0				
FUSION AVERAGES		4.423-1	4.423-1				

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ATOMIC WEIGHT 1.00782 0				DENSITY 8.3736-5 GRAMS/CC						
ENERGY		MFP (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
HFV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	9	9.329-2	2.569-3	2.142-1	2.045-1	9.746-1		9.746-1	1.012-1	5.996-5
5.227-9	9	9.546-2	2.741-3	2.094-1	2.045-1	4.873-1		4.873-1	5.170-2	3.063-5
2.091-8	8	9.620-2	2.803-3	2.077-1	2.045-1	3.243-1		3.243-1	3.479-2	2.059-5
3.267-8	8	9.648-2	2.827-3	2.071-1	2.045-1	2.658-1		2.658-1	2.855-2	1.691-5
4.704-8	8	9.674-2	2.849-3	2.065-1	2.045-1	2.091-1		2.091-1	2.252-2	1.335-5
6.322-8	8	9.695-2	2.869-3	2.061-1	2.045-1	1.626-1		1.626-1	1.755-2	1.043-5
1.307-7	7	9.710-2	2.881-3	2.058-1	2.045-1	1.328-1		1.328-1	1.436-2	8.573-6
1.882-7	7	9.720-2	2.889-3	2.056-1	2.045-1	1.124-1		1.124-1	1.216-2	7.305-6
2.561-7	7	9.727-2	2.896-3	2.055-1	2.045-1	9.741-2		9.741-2	1.055-2	6.387-6
3.345-7	7	9.732-2	2.900-3	2.053-1	2.045-1	8.594-2		8.594-2	9.311-3	5.697-6
4.234-7	7	9.735-2	2.904-3	2.053-1	2.045-1	7.730-2		7.730-2	8.378-3	5.190-6
5.123-7	7	9.741-2	2.908-3	2.052-1	2.045-1	6.671-2		6.671-2	7.234-3	4.596-6
7.527-7	7	9.747-2	2.914-3	2.050-1	2.045-1	5.415-2		5.415-2	5.876-3	3.959-6
1.116-6	6	9.751-2	2.917-3	2.049-1	2.045-1	4.569-2		4.569-2	4.960-3	3.607-6
1.511-6	6	9.754-2	2.920-3	2.049-1	2.045-1	3.951-2		3.951-2	4.291-3	3.340-6
2.091-6	6	9.757-2	2.922-3	2.048-1	2.045-1	3.407-2		3.407-2	3.702-3	3.401-6
2.741-6	6	9.759-2	2.924-3	2.048-1	2.045-1	2.989-2		2.989-2	3.248-3	3.494-6
3.533-6	6	9.761-2	2.926-3	2.048-1	2.045-1	2.610-2		2.610-2	2.838-3	3.743-6
4.704-6	6	9.762-2	2.927-3	2.047-1	2.045-1	2.324-2		2.324-2	2.528-3	4.092-6
5.658-6	6	9.763-2	2.928-3	2.047-1	2.045-1	2.124-2		2.124-2	2.311-3	4.474-6
6.737-6	6	9.764-2	2.929-3	2.047-1	2.045-1	1.928-2		1.928-2	2.100-3	5.016-6
8.322-6	6	9.765-2	2.929-3	2.047-1	2.045-1	1.765-2		1.765-2	1.923-3	5.634-6
9.620-6	6	9.765-2	2.930-3	2.047-1	2.045-1	1.645-2		1.645-2	1.794-3	6.232-6
1.101-5	5	9.766-2	2.930-3	2.046-1	2.045-1	1.524-2		1.524-2	1.662-3	7.019-6
1.307-5	5	9.766-2	2.931-3	2.046-1	2.045-1	1.418-2		1.418-2	1.549-3	7.872-6
1.450-5	5	9.767-2	2.931-3	2.046-1	2.045-1	1.353-2		1.353-2	1.479-3	8.518-6
1.581-5	5	9.767-2	2.931-3	2.046-1	2.045-1	1.293-2		1.293-2	1.414-3	9.207-6
1.756-5	5	9.767-2	2.932-3	2.046-1	2.045-1	1.238-2		1.238-2	1.355-3	9.925-6
1.882-5	5	9.768-2	2.932-3	2.046-1	2.045-1	1.188-2		1.188-2	1.301-3	1.069-5
2.075-5	5	9.768-2	2.932-3	2.046-1	2.045-1	1.132-2		1.132-2	1.242-3	1.161-5
2.277-5	5	9.768-2	2.932-3	2.046-1	2.045-1	1.090-2		1.090-2	1.197-3	1.247-5
2.417-5	5	9.769-2	2.932-3	2.046-1	2.045-1	1.059-2		1.059-2	1.163-3	1.317-5
2.561-5	5	9.768-2	2.933-3	2.046-1	2.045-1	1.029-2		1.029-2	1.132-3	1.388-5
2.710-5	5	9.768-2	2.933-3	2.046-1	2.045-1	1.001-2		1.001-2	1.102-3	1.462-5
2.862-5	5	9.769-2	2.933-3	2.046-1	2.045-1	9.803-3		9.803-3	1.091-3	1.518-5
2.940-5	5	9.769-2	2.933-3	2.046-1	2.045-1	9.610-3		9.610-3	1.060-3	1.576-5
3.099-5	5	9.769-2	2.933-3	2.046-1	2.045-1	9.304-3		9.304-3	1.028-3	1.676-5
3.345-5	5	9.769-2	2.933-3	2.046-1	2.045-1	8.961-3		8.961-3	9.919-4	1.800-5
3.601-5	5	9.769-2	2.933-3	2.046-1	2.045-1	8.644-3		8.644-3	9.587-4	1.928-5
3.866-5	5	9.769-2	2.933-3	2.046-1	2.045-1	8.393-3		8.393-3	9.326-4	2.039-5
4.048-5	5	9.769-2	2.933-3	2.046-1	2.045-1	8.207-3		8.207-3	9.133-4	2.130-5
4.234-5	5	9.769-2	2.934-3	2.046-1	2.045-1	8.067-3		8.067-3	8.988-4	2.199-5
4.329-5	5	9.769-2	2.934-3	2.046-1	2.045-1	7.896-3		7.896-3	8.812-4	2.295-5
4.419-5	5	9.770-2	2.934-3	2.046-1	2.045-1	7.726-3		7.726-3	8.636-4	2.391-5
4.717-5	5	9.770-2	2.934-3	2.046-1	2.045-1	7.600-3		7.600-3	8.515-4	2.465-5
4.918-5	5	9.770-2	2.934-3	2.046-1	2.045-1	7.453-3		7.453-3	8.357-4	2.566-5
5.123-5	5	9.770-2	2.934-3	2.046-1	2.045-1	7.302-3		7.302-3	8.204-4	2.669-5
5.332-5	5	9.770-2	2.934-3	2.046-1	2.045-1	7.125-3		7.125-3	8.025-4	2.601-5
5.654-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.987-3		6.987-3	7.895-4	2.908-5
5.763-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.857-3		6.857-3	7.755-4	3.018-5
5.897-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.699-3		6.699-3	7.597-4	3.158-5
6.325-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.580-3		6.580-3	7.479-4	3.273-5
6.557-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.489-3		6.489-3	7.390-4	3.360-5
6.674-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.378-3		6.378-3	7.280-4	3.479-5
7.034-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.268-3		6.268-3	7.173-4	3.599-5
7.155-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.162-3		6.162-3	7.070-4	3.722-5
7.527-5	5	9.770-2	2.934-3	2.046-1	2.045-1	6.036-3		6.036-3	6.948-4	3.878-5
7.780-5	5	9.770-2	2.934-3	2.046-1	2.045-1	5.959-3		5.959-3	6.875-4	3.973-5
7.908-5	5	9.770-2	2.934-3	2.046-1	2.045-1	5.889-3		5.889-3	6.808-4	4.069-5
8.167-5	5	9.770-2	2.935-3	2.045-1	2.045-1	5.796-3		5.796-3	6.720-4	4.200-5
8.431-5	5	9.771-2	2.935-3	2.045-1	2.045-1	5.682-3		5.682-3	6.613-4	4.366-5
8.634-5	5	9.771-2	2.935-3	2.045-1	2.045-1	5.575-3		5.575-3	6.514-4	4.535-5

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ATOMIC WEIGHT 1.007825		DENSITY 0.37365 GRAMS/CC									
ENERGY MEV	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARN)						ENERGY DEPOSIT (MEV)	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.		TOTAL	LOCAL
9.108-5	9.771+2	2.935+3	2.045+1	2.045+1	5.489-3			5.489-3		6.434+4	4.673-5
9.382-5	9.771+2	2.935+3	2.045+1	2.045+1	5.409-3			5.409-3		6.361+4	4.613-5
9.668-5	9.771+2	2.935+3	2.045+1	2.045+1	5.350-3			5.350-3		6.307+4	4.519-5
9.911-5	9.771+2	2.935+3	2.045+1	2.045+1	5.271-3			5.271-3		6.237+4	4.503-5
1.025-4	9.774+2	2.936+3	2.045+1	2.045+1	5.124-3			5.124-3		6.107+4	5.358-5
1.099-4	9.778+2	2.937+3	2.044+1	2.043+1	4.949-3			4.949-3		5.958+4	5.737-5
1.176-4	9.782+2	2.938+3	2.043+1	2.043+1	4.786-3			4.786-3		5.821+4	6.130-5
1.256-4	9.786+2	2.939+3	2.042+1	2.042+1	4.633-3			4.633-3		5.697+4	6.535-5
1.339-4	9.790+2	2.941+3	2.041+1	2.041+1	4.504-3			4.504-3		5.596+4	6.910-5
1.406-4	9.794+2	2.942+3	2.041+1	2.040+1	4.388-3			4.388-3		5.494+4	7.342-5
1.511-4	9.799+2	2.943+3	2.040+1	2.039+1	4.286-3			4.286-3		5.393+4	7.830-5
1.601-4	9.803+2	2.945+3	2.039+1	2.038+1	4.108-3			4.108-3		5.310+4	8.289-5
1.694-4	9.808+2	2.946+3	2.038+1	2.037+1	3.996-3			3.996-3		5.236+4	8.759-5
1.789-4	9.813+2	2.948+3	2.037+1	2.036+1	3.888-3			3.888-3		5.170+4	9.244-5
1.887-4	9.818+2	2.949+3	2.036+1	2.035+1	3.786-3			3.786-3		5.110+4	9.741-5
1.988-4	9.823+2	2.951+3	2.034+1	2.034+1	3.691-3			3.691-3		5.059+4	1.025+4
2.091-4	9.829+2	2.953+3	2.033+1	2.031+1	3.596-3			3.596-3		4.932+4	1.214+4
2.741-4	9.855+2	2.961+3	2.028+1	2.028+1	3.041-3			3.041-3		4.643+4	1.509+4
3.267-4	9.867+2	2.964+3	2.025+1	2.025+1	2.802-3			2.802-3		4.465+4	1.777+4
3.811-4	9.885+2	2.970+3	2.022+1	2.022+1	2.554-3			2.554-3		4.246+4	2.137+4
4.704-4	9.895+2	2.973+3	2.020+1	2.020+1	2.391-3			2.391-3		4.065+4	2.433+4
4.991-4	9.900+2	2.974+3	2.019+1	2.019+1	2.281-3			2.281-3		3.918+4	2.672+4
5.658-4	9.905+2	2.976+3	2.018+1	2.017+1	2.175-3			2.175-3		3.733+4	2.936+4
6.042-4	9.908+2	2.977+3	2.017+1	2.017+1	2.111-3			2.111-3		3.544+4	3.113+4
6.367-4	9.914+2	2.979+3	2.016+1	2.016+1	2.022-3			2.022-3		3.526+4	3.392+4
7.156-4	9.924+2	2.982+3	2.014+1	2.014+1	1.890-3			1.890-3		3.620+4	3.883+4
8.322-4	9.935+2	2.985+3	2.012+1	2.011+1	1.776-3			1.776-3		3.753+4	4.389+4
9.177-4	9.946+2	2.988+3	2.009+1	2.009+1	1.672-3			1.672-3		3.907+4	4.957+4
1.058-3	9.966+2	2.994+3	2.005+1	2.005+1	1.534-3			1.534-3		4.034+4	5.532+4
1.307-3	9.979+2	2.998+3	2.003+1	2.003+1	1.395-3			1.395-3		4.079+4	7.243+4
1.581-3	9.987+2	3.001+3	2.001+1	2.001+1	1.279-3			1.279-3		4.011+4	8.689+4
1.882-3	9.997+2	3.004+3	1.999+1	1.999+1	1.180-3			1.180-3		3.957+4	1.026+5
2.208-3	1.001+3	3.007+3	1.997+1	1.997+1	1.092-3			1.092-3		3.910+4	1.196+5
2.561-3	1.002+3	3.010+3	1.995+1	1.995+1	1.015-3			1.015-3		3.833+4	1.380+5
2.940-3	1.003+3	3.014+3	1.993+1	1.993+1	9.473-4			9.473-4		3.762+4	1.576+5
3.345-3	1.004+3	3.018+3	1.990+1	1.990+1	8.866-4			8.866-4		3.693+4	1.786+5
3.777-3	1.006+3	3.022+3	1.987+1	1.987+1	8.330-4			8.330-4		3.624+4	2.009+5
4.234-3	1.009+3	3.033+3	1.980+1	1.980+1	7.403-4			7.403-4		3.500+4	2.507+5
5.763-3	1.021+3	3.067+3	1.958+1	1.958+1	6.303-4			6.303-4		3.404+4	3.332+5
7.527-3	1.034+3	3.108+3	1.933+1	1.933+1	5.337-4			5.337-4		3.517+4	4.455+5
1.025-2	1.057+3	3.175+3	1.891+1	1.891+1	4.324-4			4.324-4		3.603+4	6.352+5
1.511-2	1.092+3	3.281+3	1.830+1	1.830+1	3.476-4			3.476-4		3.665+4	9.023+5
2.091-2	1.126+3	3.383+3	1.775+1	1.775+1	2.915-4			2.915-4		3.691+4	1.187+6
2.646-2	1.161+3	3.489+3	1.721+1	1.721+1	2.518-4			2.518-4		3.689+4	1.482+6
3.257-2	1.201+3	3.610+3	1.663+1	1.663+1	2.192-4			2.192-4		3.681+4	1.810+6
3.953-2	1.243+3	3.736+3	1.608+1	1.607+1	1.953-4			1.953-4		3.673+4	2.170+6
4.704-2	1.296+3	3.895+3	1.542+1	1.542+1	1.715-4			1.715-4		3.625+4	2.623+6
5.761-2	1.363+3	4.094+3	1.467+1	1.467+1	1.492-4			1.492-4		3.500+4	3.198+6
7.002-2	1.435+3	4.312+3	1.393+1	1.393+1	1.310-4			1.310-4		3.462+4	3.890+6
8.322-2	1.515+3	4.552+3	1.319+1	1.319+1	1.156-4			1.156-4		3.433+4	4.556+6
9.891-2	1.614+3	4.932+3	1.218+1	1.218+1	1.016-4			1.016-4		3.465+4	5.744+6
1.307-1	1.850+3	5.595+3	1.080+1	1.080+1	1.000-4			1.000-4		3.813+4	7.811+6
1.820-1	2.040+3	6.236+3	9.790+0	9.790+0	9.987-5			9.987-5		3.762+4	9.759+6
2.075-1	2.177+3	6.692+3	9.180+0	9.180+0	9.976-5			9.976-5		3.725+4	1.125+7
2.417-1	2.317+3	7.174+3	8.626+0	8.626+0	9.964-5			9.964-5		3.689+4	1.285+7
2.710-1	2.428+3	7.567+3	8.230+0	8.230+0	9.953-5			9.953-5		3.642+4	1.417+7
2.990-1	2.515+3	8.014+3	7.810+0	7.810+0	9.943-5			9.943-5		3.595+4	1.556+7
3.345-1	2.727+3	8.614+3	7.330+0	7.330+0	9.927-5			9.927-5		3.545+4	1.785+7
3.777-1	2.988+3	9.242+3	6.897+0	6.897+0	9.911-5			9.911-5		3.500+4	2.008+7
4.234-1	3.138+3	1.011+4	6.369+0	6.369+0	9.886-5			9.886-5		3.433+4	2.343+7
5.123-1	3.482+3	1.142+4	5.735+0	5.735+0	9.847-5			9.847-5		3.366+4	2.865+7
6.325-1	3.855+3	1.263+4	5.189+0	5.189+0	9.802-5			9.802-5		3.300+4	3.469+7

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ATOMIC WEIGHT	1.0078+0		DENSITY 8.3736-5 GRAMS/CC				
	ENERGY		CROSS SECTION (BARNs)				
	MEV		ENERGY DEPOSITIVE (eV)				
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	REMAINDER	GAM-PROD.
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	REMAINDER	GAM-PROD.
7.527-1	4.211+3	1.380+4	4.746+0	4.746+0	9.755-5	9.755-5	4.099-1
9.934-1	4.570+3	1.197+4	4.373+0	4.373+0	9.795-5	9.795-5	4.781-1
1.025+0	4.928+3	1.614+4	4.056+0	4.056+0	9.650-5	9.650-5	5.515-1
1.176+0	5.262+3	1.733+4	3.777+0	3.777+0	9.591-5	9.591-5	6.301-1
1.338+0	5.661+3	1.853+4	3.530+0	3.530+0	9.529-5	9.529-5	7.140-1
1.511+0	6.040+3	1.977+4	3.309+0	3.309+0	9.463-5	9.463-5	8.031-1
1.694+0	6.428+3	2.103+4	3.109+0	3.109+0	9.393-5	9.393-5	8.976-1
1.887+0	6.826+3	2.232+4	2.928+0	2.928+0	9.319-5	9.319-5	9.971-1
2.091+0	7.233+3	2.365+4	2.763+0	2.763+0	9.241-5	9.241-5	1.102+0
2.305+0	7.648+3	2.500+4	2.613+0	2.613+0	9.159-5	9.159-5	1.212+0
2.530+0	8.051+3	2.631+4	2.482+0	2.482+0	9.077-5	9.077-5	1.322+0
2.771+0	8.487+3	2.773+4	2.355+0	2.355+0	8.988-5	8.988-5	1.443+0
3.011+0	8.958+3	2.925+4	2.231+0	2.231+0	8.890-5	8.890-5	1.576+0
3.267+0	9.423+3	3.076+4	2.121+0	2.121+0	8.792-5	8.792-5	1.708+0
3.533+0	9.903+3	3.232+4	2.018+0	2.018+0	8.691-5	8.691-5	1.845+0
3.811+0	1.037+4	3.393+4	1.927+0	1.927+0	8.591-5	8.591-5	1.981+0
4.069+0	1.088+4	3.549+4	1.837+0	1.837+0	8.482-5	8.482-5	2.128+0
4.396+0	1.143+4	3.726+4	1.749+0	1.749+0	8.354-5	8.354-5	2.289+0
4.704+0	1.195+4	3.894+4	1.672+0	1.672+0	8.253-5	8.253-5	2.439+0
4.991+0	1.252+4	4.077+4	1.597+0	1.597+0	8.132-5	8.132-5	2.603+0
5.353+0	1.310+4	4.265+4	1.526+0	1.526+0	8.008-5	8.008-5	2.772+0
5.658+0	1.370+4	4.460+4	1.459+0	1.459+0	7.879-5	7.879-5	2.946+0
6.042+0	1.432+4	4.659+4	1.396+0	1.396+0	7.747-5	7.747-5	3.125+0
6.367+0	1.494+4	4.859+4	1.338+0	1.338+0	7.618-5	7.618-5	3.300+0
6.737+0	1.564+4	5.086+4	1.278+0	1.277+0	7.470-5	7.470-5	3.499+0
7.156+0	1.636+4	5.318+4	1.221+0	1.221+0	7.319-5	7.319-5	3.704+0
7.548+0	1.704+4	5.535+4	1.173+0	1.173+0	7.179-5	7.179-5	3.895+0
7.916+0	1.774+4	5.762+4	1.126+0	1.126+0	7.035-5	7.035-5	4.090+0
8.322+0	1.854+4	6.019+4	1.078+0	1.078+0	6.871-5	6.871-5	4.313+0
8.787+0	1.932+4	6.269+4	1.034+0	1.034+0	6.712-5	6.712-5	4.531+0
9.177+0	2.012+4	6.525+4	9.935-1	9.934-1	6.546-5	6.546-5	4.754+0
9.654+0	2.098+4	6.801+4	9.525-1	9.525-1	6.372-5	6.372-5	4.994+0
1.012+1	2.183+4	7.075+4	9.153-1	9.153-1	6.201-5	6.201-5	5.228+0
1.058+1	2.267+4	7.343+4	8.815-1	8.814-1	6.034-5	6.034-5	5.455+0
1.101+1	2.358+4	7.634+4	8.475-1	8.474-1	5.855-5	5.855-5	5.700+0
1.155+1	2.452+4	7.932+4	8.152-1	8.151-1	5.672-5	5.672-5	5.950+0
1.199+1	2.543+4	8.222+4	7.860-1	7.860-1	5.495-5	5.495-5	6.192+0
1.250+1	2.643+4	8.553+4	7.554-1	7.553-1	5.294-5	5.294-5	6.465+0
1.307+1	2.747+4	8.876+4	7.275-1	7.274-1	5.100-5	5.100-5	6.731+0
1.359+1	2.824+4	9.120+4	7.077-1	7.077-1	4.952-5	4.952-5	6.934+0
1.396+1	2.881+4	9.302+4	6.937-1	6.936-1	4.841-5	4.841-5	7.085+0
1.413+1	2.936+4	9.476+4	6.807-1	6.807-1	4.740-5	4.740-5	7.223+0
1.441+1	2.992+4	9.655+4	6.680-1	6.680-1	4.638-5	4.638-5	7.363+0
1.468+1	3.068+4	9.999+4	6.514-1	6.514-1	4.482-5	4.482-5	7.561+0
1.519+1	3.178+4	1.025+5	6.280-1	6.289-1	4.293-5	4.293-5	7.834+0
1.554+1	3.294+4	1.062+5	6.067-1	6.067-1	4.079-5	4.079-5	8.126+0
1.633+1	3.416+4	1.101+5	5.850-1	5.850-1	3.861-5	3.861-5	8.423+0
1.692+1	3.541+4	1.141+5	5.645-1	5.644-1	3.639-5	3.639-5	8.725+0
1.752+1	3.669+4	1.181+5	5.447-1	5.447-1	3.414-5	3.414-5	9.034+0
1.813+1	3.802+4	1.224+5	5.256-1	5.256-1	3.184-5	3.184-5	9.347+0
1.875+1	4.004+4	1.289+5	4.992-1	4.992-1	2.936-5	2.936-5	9.820+0
2.000+1							
RESONANCE INTEGRALS			2.635+2	2.634+2	1.489-1	1.489-1	
MAXWELLIAN AVERAGES			2.074+1	2.045+1	2.955-1	2.955-1	
1/E AVERAGES			1.506+1	1.505+1	8.507-3	8.507-3	
FISSION AVERAGES			3.921+0	3.921+0	9.409-5	9.409-5	
FUSION AVERAGES			6.908+1	6.907+1	4.817-5	4.817-5	

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.01410

DENSITY 1.5735 G/CM³

ENERGY MEV	REF. 1001	CROSS SECTION (BARN)			ENERGY DEPOSITION (MEV)	
		TOTAL	ELASTIC	ABSORPTION	TOTAL	LOCAL
1.337-9	5.875-3	0.010-3	3.400-0	1.630-3	3.010-3	3.335-6
5.227-9	5.877-3	0.021-3	3.401-0	0.181-4	0.181-4	1.671-6
2.091-6	5.877-3	0.022-3	3.401-0	5.483-4	1.008-3	1.120-6
3.267-6	5.877-3	0.022-3	3.400-0	4.495-4	4.495-4	0.327-7
4.704-6	5.877-3	0.023-3	3.400-0	3.540-4	3.540-4	7.895-7
6.322-6	5.878-3	0.023-3	3.400-0	2.704-4	2.704-4	6.061-7
8.137-6	5.878-3	0.023-3	3.400-0	2.249-4	2.249-4	5.288-7
1.062-7	5.878-3	0.023-3	3.400-0	1.906-4	1.906-4	4.658-7
2.561-7	5.878-3	0.023-3	3.400-0	1.646-4	1.646-4	4.663-7
3.345-7	5.878-3	0.023-3	3.400-0	1.580-4	1.580-4	4.652-7
4.233-7	5.878-3	0.023-3	3.400-0	1.308-4	1.308-4	4.743-7
5.123-7	5.878-3	0.023-3	3.400-0	1.131-4	1.131-4	4.882-7
7.527-7	5.878-3	0.023-3	3.400-0	9.162-5	9.162-5	6.153-7
1.170-6	5.878-3	0.023-3	3.400-0	7.731-5	7.731-5	7.947-7
1.511-6	5.878-3	0.023-3	3.400-0	6.719-5	6.719-5	8.375-7
2.091-6	5.878-3	0.023-3	3.400-0	4.783-5	4.783-5	1.192-6
2.741-6	5.878-3	0.023-3	3.400-0	5.051-5	5.051-5	1.498-6
3.513-6	5.878-3	0.023-3	3.400-0	4.248-5	4.248-5	1.522-6
4.704-6	5.878-3	0.023-3	3.400-0	3.921-5	3.921-5	2.304-6
5.650-6	5.878-3	0.023-3	3.400-0	3.610-5	3.310-5	2.829-6
6.737-6	5.878-3	0.023-3	3.400-0	3.273-5	3.273-5	3.115-6
8.122-6	5.878-3	0.023-3	3.400-0	3.105-5	3.105-5	4.052-6
5.620-6	5.878-3	0.023-3	3.400-0	3.055-5	3.055-5	4.648-6
1.191-5	5.878-3	0.023-3	3.400-0	3.033-5	3.033-5	5.115-6
1.327-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	6.231-6
1.458-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	6.193-6
1.581-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	7.486-6
1.758-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	8.155-6
1.882-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	8.858-6
2.075-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	9.736-6
2.277-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.050-5
2.417-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.113-5
2.561-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.178-5
2.711-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.245-5
2.862-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.296-5
2.940-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.349-5
3.099-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.439-5
3.345-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.551-5
3.601-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.666-5
3.956-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.766-5
4.040-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.847-5
4.233-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.910-5
4.329-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	1.995-5
4.619-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.082-5
4.717-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.148-5
4.918-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.239-5
5.123-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.331-5
5.332-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.449-5
5.654-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.544-5
5.763-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.643-5
6.097-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.768-5
6.325-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.870-5
6.557-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	2.948-5
6.674-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.054-5
7.034-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.161-5
7.155-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.271-5
7.527-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.409-5
7.780-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.549-5
7.908-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.580-5
8.167-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.697-5
8.311-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.845-5
8.834-5	5.878-3	0.023-3	3.400-0	3.000-5	3.000-5	3.995-5

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ATOMIC WEIGHT 2.0141 + 0		DENSITY 1.6735 - 4 GRAMS/CC									
ENERGY		MF (CM)		CROSS SECTION (BARNS)						ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.		TOTAL	LOCAL
9.108-5	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	9.627-5	4.118-5	
9.386-5	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	9.751-5	4.243-5	
9.658-5	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	9.846-5	4.337-5	
9.811-5	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	9.974-5	4.465-5	
1.025-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.024-4	4.728-5	
1.099-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.057-4	5.065-5	
1.176-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.092-4	5.413-5	
1.256-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.128-4	5.773-5	
1.339-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.162-4	6.107-5	
1.406-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.200-4	6.491-5	
1.511-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.243-4	6.924-5	
1.601-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.294-4	7.331-5	
1.694-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.326-4	7.749-5	
1.789-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.369-4	8.177-5	
1.887-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.413-4	8.621-5	
1.988-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.458-4	9.074-5	
2.091-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.626-4	1.075-4	
2.741-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.887-4	1.338-4	
3.267-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	2.125-4	1.574-4	
3.811-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	2.442-4	1.899-4	
4.724-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	2.707-4	2.155-4	
5.931-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	2.919-4	2.358-4	
6.658-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	3.153-4	2.602-4	
6.042-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	3.311-4	2.760-4	
6.367-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	3.558-4	3.007-4	
7.156-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	3.993-4	3.442-4	
8.322-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	4.442-4	3.891-4	
9.177-4	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	4.945-4	4.394-4	
1.058-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	5.811-4	5.260-4	
1.307-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	6.973-4	6.422-4	
1.581-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	8.251-4	7.700-4	
1.882-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	9.645-4	9.095-4	
2.208-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.116-3	1.061-3	
2.551-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.278-3	1.223-3	
2.940-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.453-3	1.398-3	
3.345-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.639-3	1.584-3	
3.777-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	1.836-3	1.781-3	
4.234-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	2.278-3	2.223-3	
5.763-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	3.010-3	2.955-3	
7.527-3	5.878-3	0.824+3	3.400+0	3.400+0	3.000-5	3.000-5		3.000-5	4.007-3	3.522-3	
1.025-2	5.888-3	0.839+3	2.354+0	3.394+0	3.000-5	3.000-5		3.000-5	5.691-3	5.636-3	
1.511-2	5.909-3	0.870+3	3.382+0	3.382+0	3.000-5	3.000-5		3.000-5	8.062-3	8.007-3	
2.091-2	5.931-3	0.904+3	3.370+0	3.370+0	3.000-5	3.000-5		3.000-5	1.059-2	1.053-2	
2.646-2	5.954-3	0.938+3	3.357+0	3.357+0	3.000-5	3.000-5		3.000-5	1.320-2	1.315-2	
3.267-2	5.980-3	0.977+3	3.342+0	3.342+0	3.000-5	3.000-5		3.000-5	1.611-2	1.605-2	
3.953-2	6.009-3	0.920+3	3.326+0	3.326+0	3.000-5	3.000-5		3.000-5	1.930-2	1.925-2	
4.704-2	6.045-3	0.970+3	3.306+0	3.306+0	3.000-5	3.000-5		3.000-5	2.341-2	2.335-2	
5.761-2	6.092-3	0.952+3	3.280+0	3.280+0	3.000-5	3.000-5		3.000-5	2.887-2	2.881-2	
7.002-2	6.146-3	0.981+3	3.252+0	3.252+0	3.000-5	3.000-5		3.000-5	3.509-2	3.503-2	
8.322-2	6.207-3	0.914+3	3.270+0	3.270+0	3.000-5	3.000-5		3.000-5	4.228-2	4.222-2	
9.891-2	6.252-3	0.800+3	3.196+0	3.196+0	3.000-5	3.000-5		3.000-5	5.439-2	5.433-2	
1.307-1	6.273+3	0.609+3	3.186+0	3.186+0	3.000-5	3.000-5		3.000-5	7.595-2	7.589-2	
1.820-1	6.292+3	0.310+3	3.176+0	3.176+0	3.000-5	3.000-5		3.000-5	9.680-2	9.674-2	
2.075-1	6.315+3	0.184+3	3.165+0	3.165+0	3.000-5	3.000-5		3.000-5	1.133-1	1.135-1	
2.417-1	6.342+3	0.006+3	3.151+0	3.151+0	3.000-5	3.000-5		3.000-5	1.317-1	1.16-1	
2.710-1	6.365+3	7.861+3	3.140+0	3.140+0	3.000-5	3.000-5		3.000-5	1.470-1	1.469-1	
2.940-1	6.392+3	7.762+3	3.126+0	3.126+0	3.000-5	3.000-5		3.000-5	1.661-1	1.661-1	
3.345-1	6.39+3	7.583+3	3.109+0	3.109+0	3.000-5	3.000-5		3.000-5	1.922-1	1.922-1	
3.777-1	6.467+3	7.403+3	3.090+0	3.090+0	3.000-5	3.000-5		3.000-5	2.213-1	2.213-1	
4.234-1	6.514+3	7.230+3	3.068+0	3.068+0	3.000-5	3.000-5		3.000-5	2.669-1	2.669-1	
5.123-1	6.587+3	6.957+3	3.034+0	3.034+0	3.000-5	3.000-5		3.000-5	3.292-1	3.291-1	
6.325-1	6.673+3	7.054+3	2.995+0	2.995+0	3.000-5	3.000-5		3.000-5	3.963-1	3.962-1	

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ATOMIC WEIGHT 2.014116		DENSITY 1.1735 - 4 GRAMS/CC								
ENERGY		HFP (CM)		CROSS SECTION (BARNIS)				ENERGY DEPOSITIVE		
MEV		TOTAL TRANSPORT		TOTAL	ELASTIC	ABSORPTION	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1	6.764+3	7.155+3	2.955+0	2.955+0	3.000-5	3.000-5	3.000-5	4.663-1	4.662-1	
6.834-1	6.959+3	7.262+3	2.911+0	2.911+0	3.000-5	3.000-5	3.000-5	5.420-1	5.419-1	
1.025+0	6.976+3	7.407+3	2.865+0	2.865+0	3.000-5	3.000-5	3.000-5	6.172-1	6.171-1	
1.176+0	7.112+3	7.654+3	2.810+0	2.810+0	3.000-5	3.000-5	3.000-5	6.944-1	6.943-1	
1.338+0	7.259+3	7.927+3	2.753+0	2.753+0	3.000-5	3.000-5	3.000-5	7.767-1	7.766-1	
1.511+0	7.406+3	8.216+3	2.699+0	2.699+0	3.000-5	3.000-5	3.000-5	8.580-1	8.580-1	
1.694+0	7.583+3	8.557+3	2.636+0	2.636+0	3.000-5	3.000-5	3.000-5	9.422-1	9.421-1	
1.887+0	7.793+3	8.957+3	2.565+0	2.565+0	3.000-5	3.000-5	3.000-5	1.025-1	1.025-1	
2.091+0	8.062+3	9.453+3	2.479+0	2.479+0	3.000-5	3.000-5	3.000-5	1.073-1	1.073-1	
2.305+0	8.373+3	1.080+4	2.387+0	2.387+0	3.000-5	3.000-5	3.000-5	1.106-1	1.106-1	
2.530+0	8.675+3	1.206+4	2.304+0	2.304+0	3.000-5	3.000-5	3.000-5	1.165-1	1.165-1	
2.741+0	9.010+3	1.269+4	2.218+0	2.218+0	3.000-5	3.000-5	3.000-5	1.253-1	1.253-1	
3.011+0	9.376+3	1.342+4	2.132+0	2.132+0	3.000-5	3.000-5	3.000-5	1.350-1	1.350-1	
3.267+0	9.741+3	1.418+4	2.052+0	2.052+0	3.000-5	9.715-5	3.000-5	1.427-1	1.427-1	
3.533+0	1.012+4	1.528+4	1.975+0	1.975+0	3.000-5	4.954-5	3.000-5	1.487-1	1.487-1	
3.811+0	1.049+4	1.646+4	1.904+0	1.903+0	3.000-5	1.241-3	3.000-5	1.541-1	1.541-1	
4.069+0	1.090+4	1.773+4	1.834+0	1.824+0	3.000-5	9.831-3	3.000-5	1.585-1	1.585-1	
4.396+0	1.134+4	1.931+4	1.762+0	1.747+0	3.000-5	2.164-2	3.000-5	1.645-1	1.644-1	
4.704+0	1.175+4	2.013+4	1.700+0	1.669+0	3.000-5	3.182-2	3.000-5	1.755-1	1.755-1	
5.091+0	1.221+4	2.085+4	1.637+0	1.596+0	3.000-5	4.146-2	3.000-5	1.881-1	1.880-1	
5.353+0	1.267+4	2.113+4	1.577+0	1.527+0	3.000-5	5.022-2	3.000-5	2.009-1	2.009-1	
5.658+0	1.315+4	2.118+4	1.520+0	1.460+0	3.000-5	5.973-2	3.000-5	2.140-1	2.140-1	
6.042+0	1.365+4	2.229+4	1.465+0	1.405+0	3.000-5	6.830-2	3.000-5	2.275-1	2.274-1	
6.367+0	1.413+4	2.290+4	1.414+0	1.338+0	3.000-5	7.558-2	3.000-5	2.405-1	2.404-1	
6.737+0	1.468+4	2.356+4	1.361+0	1.278+0	3.000-5	8.284-2	3.000-5	2.552-1	2.552-1	
7.156+0	1.524+4	2.422+4	1.311+0	1.219+0	3.000-5	9.240-2	3.000-5	2.702-1	2.702-1	
7.548+0	1.577+4	2.481+4	1.267+0	1.168+0	3.000-5	9.957-2	3.000-5	2.845-1	2.839-1	
7.910+0	1.631+4	2.543+4	1.225+0	1.119+0	3.000-5	1.067-1	3.000-5	2.969-1	2.969-1	
8.322+0	1.692+4	2.637+4	1.181+0	1.067+0	3.000-5	1.136-1	3.000-5	3.094-1	3.094-1	
8.787+0	1.752+4	2.739+4	1.141+0	1.020+0	3.000-5	1.202-1	3.000-5	3.210-1	3.210-1	
9.177+0	1.813+4	2.838+4	1.102+0	9.750-1	3.000-5	1.270-1	3.000-5	3.326-1	3.325-1	
9.665+0	1.879+4	2.946+4	1.064+0	9.294-1	3.000-5	1.343-1	3.000-5	3.447-1	3.447-1	
1.012+1	1.942+4	3.051+4	1.029+0	8.687-1	3.000-5	1.402-1	3.000-5	3.547-1	3.547-1	
1.058+1	2.004+4	3.154+4	9.71-1	8.515-1	3.000-5	1.456-1	3.000-5	3.636-1	3.636-1	
1.101+1	2.072+4	3.262+4	9.647-1	8.133-1	3.000-5	1.514-1	3.000-5	3.731-1	3.730-1	
1.155+1	2.140+4	3.392+4	9.333-1	7.766-1	3.000-5	1.572-1	3.000-5	3.827-1	3.826-1	
1.199+1	2.206+4	3.513+4	9.058-1	7.437-1	3.000-5	1.621-1	3.000-5	3.920-1	3.920-1	
1.250+1	2.281+4	3.651+4	8.760-1	7.094-1	3.000-5	1.666-1	3.000-5	4.014-1	4.014-1	
1.307+1	2.354+4	3.793+4	8.490-1	6.780-1	3.000-5	1.710-1	3.000-5	4.094+0	4.094+0	
1.354+1	2.408+4	3.904+4	8.235-1	6.551-1	3.000-5	1.744-1	3.000-5	4.155+0	4.154+0	
1.396+1	2.451+4	3.984+4	8.154-1	6.385-1	3.000-5	1.769-1	3.000-5	4.200+0	4.199+0	
1.413+1	2.489+4	4.053+4	8.032-1	6.240-1	3.000-5	1.792-1	3.000-5	4.241+0	4.240+0	
1.441+1	2.526+4	4.123+4	7.911-1	6.096-1	2.998-5	1.815-1	2.998-5	4.283+0	4.282+0	
1.468+1	2.573+4	4.196+4	7.769-1	5.937-1	2.938-5	1.931-1	2.938-5	4.350+0	4.350+0	
1.519+1	2.636+4	4.260+4	7.582-1	5.732-1	2.839-5	1.849-1	2.839-5	4.485+0	4.484+0	
1.575+1	2.708+4	4.331+4	7.381-1	5.513-1	2.733-5	1.868-1	2.733-5	4.639+0	4.638+0	
1.633+1	2.789+4	4.407+4	7.177-1	5.269-1	2.624-5	1.888-1	2.624-5	4.793+0	4.793+0	
1.692+1	2.867+4	4.487+4	6.970-1	5.062-1	2.514-5	1.907-1	2.514-5	4.948+0	4.947+0	
1.752+1	2.957+4	4.574+4	6.758-1	4.830-1	2.402-5	1.926-1	2.402-5	5.103+0	5.102+0	
1.813+1	3.054+4	4.667+4	6.543-1	4.595-1	2.288-5	1.948-1	2.288-5	5.257+0	5.257+0	
1.875+1	3.214+4	4.824+4	6.218-1	4.238-1	2.115-5	1.979-1	2.115-5	5.483+0	5.482+0	
2.000+1										
RESONANCE INTEGRALS		5.384+1	5.366+1	6.298-4	1.846-1	6.298-4				
MAXWELLIAN AVERAGES		3.400+0	3.400+0	4.983-4		4.983-4				
1/E AVERAGES		3.076+0	3.065+0	6.598-5	1.055-2	6.598-5				
FISSION AVERAGES		2.549+0	2.543+0	3.000-5	5.956-3	3.000-5				
FUELION AVERAGES		6.130-1	6.356-1	2.996-5	1.774-1	2.996-5				

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ENDL 175 Group Neutron Constants

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Barns

Mev/Collision

ATOMIC WEIGHT 3.01604		DENSITY 2.50684 GRAMS/CC			
ENERGY	GROUP	CROSS SECTION (BARRS)		ENERGY DEPOSITION (eV)	
		ELASTIC	ABSORPTION REMAINDER CAP PROD	TOTAL	LOCAL
0.00000	1	1.30000	1.30000	1.2279	1.2279
0.00000	2	1.30000	1.30000	1.9089	1.9089
0.00000	3	1.30000	1.30000	1.0069	1.0069
0.00000	4	1.30000	1.30000	1.4979	1.4979
0.00000	5	1.30000	1.30000	2.4069	2.4069
0.00000	6	1.30000	1.30000	4.0179	4.0179
0.00000	7	1.30000	1.30000	5.9879	5.9879
0.00000	8	1.30000	1.30000	8.3439	8.3439
0.00000	9	1.30000	1.30000	1.1097	1.1097
0.00000	10	1.30000	1.30000	1.4237	1.4237
0.00000	11	1.30000	1.30000	1.7577	1.7577
0.00000	12	1.30000	1.30000	2.3757	2.3757
0.00000	13	1.30000	1.30000	3.6227	3.6227
0.00000	14	1.30000	1.30000	5.0457	5.0457
0.00000	15	1.30000	1.30000	6.7637	6.7637
0.00000	16	1.30000	1.30000	9.0737	9.0737
0.00000	17	1.30000	1.30000	1.1789	1.1789
0.00000	18	1.30000	1.30000	1.5479	1.5479
0.00000	19	1.30000	1.30000	1.9469	1.9469
0.00000	20	1.30000	1.30000	2.3279	2.3279
0.00000	21	1.30000	1.30000	2.6289	2.6289
0.00000	22	1.30000	1.30000	3.3699	3.3699
0.00000	23	1.30000	1.30000	3.8749	3.8749
0.00000	24	1.30000	1.30000	4.5229	4.5229
0.00000	25	1.30000	1.30000	5.2119	5.2119
0.00000	26	1.30000	1.30000	5.7269	5.7269
0.00000	27	1.30000	1.30000	6.2719	6.2719
0.00000	28	1.30000	1.30000	6.8959	6.8959
0.00000	29	1.30000	1.30000	7.4299	7.4299
0.00000	30	1.30000	1.30000	8.1719	8.1719
0.00000	31	1.30000	1.30000	8.8114	8.8114
0.00000	32	1.30000	1.30000	9.3489	9.3489
0.00000	33	1.30000	1.30000	9.8989	9.8989
0.00000	34	1.30000	1.30000	1.0469	1.0469
0.00000	35	1.30000	1.30000	1.0909	1.0909
0.00000	36	1.30000	1.30000	1.1349	1.1349
0.00000	37	1.30000	1.30000	1.2109	1.2109
0.00000	38	1.30000	1.30000	1.3049	1.3049
0.00000	39	1.30000	1.30000	1.4029	1.4029
0.00000	40	1.30000	1.30000	1.4869	1.4869
0.00000	41	1.30000	1.30000	1.5559	1.5559
0.00000	42	1.30000	1.30000	1.6089	1.6089
0.00000	43	1.30000	1.30000	1.6809	1.6809
0.00000	44	1.30000	1.30000	1.7539	1.7539
0.00000	45	1.30000	1.30000	1.8089	1.8089
0.00000	46	1.30000	1.30000	1.8869	1.8869
0.00000	47	1.30000	1.30000	1.9639	1.9639
0.00000	48	1.30000	1.30000	2.0839	2.0839
0.00000	49	1.30000	1.30000	2.1449	2.1449
0.00000	50	1.30000	1.30000	2.2279	2.2279
0.00000	51	1.30000	1.30000	2.3339	2.3339
0.00000	52	1.30000	1.30000	2.4199	2.4199
0.00000	53	1.30000	1.30000	2.4859	2.4859
0.00000	54	1.30000	1.30000	2.5749	2.5749
0.00000	55	1.30000	1.30000	2.6649	2.6649
0.00000	56	1.30000	1.30000	2.7579	2.7579
0.00000	57	1.30000	1.30000	2.8749	2.8749
0.00000	58	1.30000	1.30000	2.9449	2.9449
0.00000	59	1.30000	1.30000	3.0199	3.0199
0.00000	60	1.30000	1.30000	3.1179	3.1179
0.00000	61	1.30000	1.30000	3.2429	3.2429
0.00000	62	1.30000	1.30000	3.3699	3.3699

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 3.0160 0		DENSITY 2.5668 4 GRAMS/CC				
ENERGY (MEV)		CROSS SECTION (BARN)				
MEV		ELASTIC				
TOTAL TRANSPORT		ABSORPTION REMAINDER CAP-PROD.				
TOTAL		TOTAL LOCAL				
9.108 5	1.537 4	1.978 4	1.300 0	1.300 0	3.473 5	3.473 5
9.386 5	1.537 4	1.978 4	1.300 0	1.300 0	3.578 5	3.578 5
9.668 5	1.537 4	1.978 4	1.300 0	1.300 0	3.658 5	3.658 5
9.951 5	1.537 4	1.978 4	1.300 0	1.300 0	3.766 5	3.766 5
1.025 5	1.537 4	1.978 4	1.300 0	1.300 0	3.988 5	3.988 5
1.099 5	1.537 4	1.978 4	1.300 0	1.300 0	4.272 5	4.272 5
1.176 5	1.537 4	1.978 4	1.300 0	1.300 0	4.567 5	4.567 5
1.256 5	1.537 4	1.978 4	1.300 0	1.300 0	4.871 5	4.871 5
1.338 5	1.537 4	1.978 4	1.300 0	1.300 0	5.153 5	5.153 5
1.406 5	1.537 4	1.978 4	1.300 0	1.300 0	5.477 5	5.477 5
1.511 5	1.537 4	1.978 4	1.300 0	1.300 0	5.843 5	5.843 5
1.601 5	1.537 4	1.978 4	1.300 0	1.300 0	6.186 5	6.186 5
1.694 5	1.537 4	1.978 4	1.300 0	1.300 0	6.540 5	6.540 5
1.789 5	1.537 4	1.978 4	1.300 0	1.300 0	6.903 5	6.903 5
1.887 5	1.537 4	1.978 4	1.300 0	1.300 0	7.276 5	7.276 5
1.988 5	1.537 4	1.978 4	1.300 0	1.300 0	7.658 5	7.658 5
2.091 5	1.537 4	1.978 4	1.300 0	1.300 0	8.073 5	8.073 5
2.194 5	1.537 4	1.978 4	1.300 0	1.300 0	1.128 4	1.128 4
2.267 5	1.537 4	1.978 4	1.300 0	1.300 0	1.329 4	1.329 4
2.311 5	1.537 4	1.978 4	1.300 0	1.300 0	1.599 4	1.599 4
2.404 5	1.537 4	1.978 4	1.300 0	1.300 0	1.821 4	1.821 4
2.491 5	1.537 4	1.978 4	1.300 0	1.300 0	2.000 4	2.000 4
2.588 5	1.537 4	1.978 4	1.300 0	1.300 0	2.197 4	2.197 4
2.682 5	1.537 4	1.978 4	1.300 0	1.300 0	2.330 4	2.330 4
2.767 5	1.537 4	1.978 4	1.300 0	1.300 0	2.539 4	2.539 4
2.856 5	1.537 4	1.978 4	1.300 0	1.300 0	2.906 4	2.906 4
2.922 5	1.537 4	1.978 4	1.300 0	1.300 0	3.286 4	3.286 4
3.017 5	1.537 4	1.978 4	1.300 0	1.300 0	3.711 4	3.711 4
3.098 5	1.537 4	1.978 4	1.300 0	1.300 0	4.442 4	4.442 4
3.187 5	1.537 4	1.978 4	1.300 0	1.300 0	5.423 4	5.423 4
3.281 5	1.537 4	1.978 4	1.300 0	1.300 0	6.503 4	6.503 4
3.382 5	1.537 4	1.978 4	1.300 0	1.300 0	7.680 4	7.680 4
3.488 5	1.537 4	1.978 4	1.300 0	1.300 0	8.957 4	8.957 4
3.591 5	1.537 4	1.978 4	1.300 0	1.300 0	1.033 3	1.033 3
3.690 5	1.537 4	1.978 4	1.300 0	1.300 0	1.180 3	1.180 3
3.785 5	1.537 4	1.978 4	1.300 0	1.300 0	1.337 3	1.337 3
3.877 5	1.537 4	1.978 4	1.300 0	1.300 0	1.504 3	1.504 3
3.974 5	1.537 4	1.978 4	1.300 0	1.300 0	1.877 3	1.877 3
4.063 5	1.537 4	1.978 4	1.300 0	1.300 0	2.496 3	2.496 3
4.153 5	1.537 4	1.978 4	1.300 0	1.300 0	3.337 3	3.337 3
4.244 5	1.537 4	1.978 4	1.300 0	1.300 0	4.760 3	4.760 3
4.336 5	1.537 4	1.978 4	1.300 0	1.300 0	5.763 3	5.763 3
4.429 5	1.537 4	1.978 4	1.300 0	1.300 0	6.895 3	6.895 3
4.523 5	1.537 4	1.978 4	1.300 0	1.300 0	1.110 2	1.110 2
4.617 5	1.537 4	1.978 4	1.300 0	1.300 0	1.356 2	1.356 2
4.712 5	1.537 4	1.978 4	1.300 0	1.300 0	1.626 2	1.626 2
4.807 5	1.537 4	1.978 4	1.300 0	1.300 0	1.970 2	1.970 2
4.902 5	1.537 4	1.978 4	1.300 0	1.300 0	2.420 2	2.420 2
5.000 5	1.537 4	1.978 4	1.300 0	1.300 0	2.924 2	2.924 2
5.098 5	1.537 4	1.978 4	1.300 0	1.300 0	3.506 2	3.506 2
5.196 5	1.534 4	1.903 4	1.303 0	1.303 0	4.488 2	4.488 2
5.307 5	1.524 4	1.848 4	1.311 0	1.311 0	6.260 2	6.260 2
5.420 5	1.515 4	1.773 4	1.319 0	1.319 0	7.967 2	7.967 2
5.535 5	1.506 4	1.731 4	1.327 0	1.327 0	9.318 2	9.318 2
5.647 5	1.495 4	1.680 4	1.337 0	1.337 0	1.083 1	1.083 1
5.761 5	1.486 4	1.638 4	1.345 0	1.345 0	1.209 1	1.209 1
5.876 5	1.473 4	1.593 4	1.357 0	1.357 0	1.367 1	1.367 1
5.991 5	1.459 4	1.535 4	1.378 0	1.378 0	1.585 1	1.585 1
6.107 5	1.447 4	1.472 4	1.400 0	1.400 0	1.818 1	1.818 1
6.224 5	1.434 4	1.398 4	1.434 0	1.434 0	2.196 1	2.196 1
6.342 5	1.421 4	1.383 4	1.433 0	1.433 0	2.748 1	2.748 1
6.461 5	1.408 4	1.356 4	1.456 0	1.456 0	3.361 1	3.361 1

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 3.0170+0

DENSITY 2.5068-4 GRAMS/CC

ENERGY MEV	HFP (CM)	CROSS SECT/ON (BARN)				ENERGY DEPOSIT (MEV)	
		TOTAL TRANSPORT	TOTAL ELASTIC	ABSORPTN REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1	1.235+4	1.155+4	1.618+0	1.616+0		4.718-1	4.018-1
8.834-1	1.192+4	1.098+4	1.677+0	1.677+0		4.742-1	4.742-1
1.025+0	1.148+4	1.047+4	1.740+0	1.740+0		5.448-1	5.448-1
1.176+0	1.109+4	1.017+4	1.802+0	1.802+0		6.166-1	6.166-1
1.339+0	1.073+4	9.909+3	1.863+0	1.863+0		6.932-1	6.932-1
1.511+0	1.030+4	9.582+3	1.941+0	1.941+0		7.719-1	7.719-1
1.694+0	9.629+3	9.222+3	2.033+0	2.033+0		8.529-1	8.529-1
1.887+0	9.417+3	8.911+3	2.122+0	2.122+0		9.357-1	9.357-1
2.091+0	9.104+3	8.795+3	2.195+0	2.195+0		1.002+0	1.002+0
2.305+0	8.814+3	8.846+3	2.268+0	2.268+0		1.059+0	1.059+0
2.530+0	8.597+3	8.999+3	2.325+0	2.325+0		1.112+0	1.112+0
2.744+0	8.414+3	9.171+3	2.375+0	2.375+0		1.160+0	1.160+0
3.011+0	8.260+3	9.528+3	2.420+0	2.420+0		1.204+0	1.204+0
3.267+0	8.208+3	9.981+3	2.435+0	2.435+0		1.239+0	1.239+0
3.533+0	8.198+3	1.055+4	2.438+0	2.438+0		1.287+0	1.287+0
3.811+0	8.211+3	1.098+4	2.416+0	2.416+0		1.345+0	1.345+0
4.069+0	8.414+3	1.150+4	2.375+0	2.375+0		1.399+0	1.399+0
4.396+0	8.592+3	1.221+4	2.326+0	2.326+0		1.455+0	1.455+0
4.704+0	8.781+3	1.297+4	2.276+0	2.276+0		1.501+0	1.501+0
4.991+0	9.020+3	1.382+4	2.216+0	2.216+0		1.541+0	1.541+0
5.353+0	9.307+3	1.497+4	2.147+0	2.147+0		1.580+0	1.580+0
5.658+0	9.673+3	1.624+4	2.066+0	2.066+0		1.609+0	1.609+0
6.042+0	1.006+4	1.779+4	1.987+0	1.987+0		1.661+0	1.661+0
6.367+0	1.044+4	1.873+4	1.914+0	1.914+0		1.730+0	1.730+0
6.737+0	1.092+4	1.991+4	1.830+0	1.830+0		1.808+0	1.808+0
7.156+0	1.152+4	2.139+4	1.736+0	1.736+0		1.888+0	1.888+0
7.548+0	1.215+4	2.298+4	1.645+0	1.645+0		1.958+0	1.958+0
7.910+0	1.278+4	2.458+4	1.564+0	1.564+0		2.026+0	2.026+0
8.322+0	1.341+4	2.625+4	1.488+0	1.488+0	2.585-3	2.102+0	2.102+0
8.787+0	1.407+4	2.788+4	1.407+0	1.407+0	1.286-2	2.174+0	2.174+0
9.177+0	1.445+4	2.880+4	1.358+0	1.358+0	2.496-2	2.245+0	2.245+0
9.665+0	1.485+4	2.989+4	1.310+0	1.310+0	3.538-2	2.318+0	2.318+0
1.012+1	1.545+4	3.124+4	1.252+0	1.252+0	4.150-2	2.400+0	2.400+0
1.059+1	1.615+4	3.288+4	1.237+0	1.192+0	4.509-2	2.485+0	2.485+0
1.101+1	1.702+4	3.460+4	1.174+0	1.127+0	4.706-2	2.578+0	2.578+0
1.155+1	1.802+4	3.664+4	1.109+0	1.061+0	4.804-2	2.673+0	2.673+0
1.199+1	1.876+4	3.827+4	1.066+0	1.017+0	4.862-2	2.766+0	2.766+0
1.250+1	1.927+4	3.952+4	1.031+0	9.882-1	4.889-2	2.873+0	2.873+0
1.307+1	1.980+4	4.086+4	1.009+0	9.604-1	4.885-2	2.976+0	2.976+0
1.354+1	2.016+4	4.193+4	9.913-1	9.426-1	4.865-2	3.055+0	3.055+0
1.386+1	2.029+4	4.246+4	9.804-1	9.319-1	4.850-2	3.114+0	3.114+0
1.413+1	2.050+4	4.304+4	9.703-1	9.220-1	4.836-2	3.168+0	3.168+0
1.441+1	2.082+4	4.355+4	9.599-1	9.117-1	4.823-2	3.223+0	3.223+0
1.468+1	2.134+4	4.485+4	9.365-1	8.895-1	4.799-2	3.299+0	3.299+0
1.519+1	2.218+4	4.687+4	9.012-1	8.541-1	4.715-2	3.400+0	3.400+0
1.575+1	2.314+4	4.923+4	8.637-1	8.176-1	4.612-2	3.506+0	3.506+0
1.633+1	2.416+4	5.173+4	8.274-1	7.823-1	4.507-2	3.614+0	3.614+0
1.692+1	2.506+4	5.406+4	7.975-1	7.535-1	4.400-2	3.724+0	3.724+0
1.752+1	2.569+4	5.588+4	7.781-1	7.351-1	4.291-2	3.837+0	3.837+0
1.813+1	2.633+4	5.776+4	7.562-1	7.174-1	4.180-2	3.951+0	3.951+0
1.875+1	2.699+4	5.981+4	7.405-1	7.004-1	4.012-2	4.123+0	4.123+0
2.000+1							
RESONANCE INTEGRALS		2.448+1	2.444+1		3.477-2		
MAXWELLIAN AVERAGE		1.305+0	1.300+0				
1/E AVERAGES		1.398+0	1.336+0		1.986-3		
FISSION AVERAGES		1.924+0	1.524+0		1.892-4		
FUSION AVERAGES		9.777-1	9.492-1		4.846-2		

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ENDL 175 Group Neutron Cross-sections

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 3.01604 0				DENSITY 1.3450 - 4 GRAMS/CC					
ENERGY		MFP (CM)		CROSS SECTION (BARNs)				[ENERGY DEPOSITION (MEV)]	
MEV		TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORBIN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	2.383 0	2.383 0	1.563 4	1.000 0	1.563 4		4.200-5	7.600-1	7.600-1
5.227-9	4.761 0	4.761 0	7.821 3	1.000 0	7.820 3		4.200-5	7.593-1	7.599-1
2.091-8	7.095 0	7.095 0	5.268 3	1.000 0	5.267 3		4.200-5	7.599-1	7.599-1
3.267-8	8.649 0	8.650 0	4.305 3	1.000 0	4.304 3		4.200-5	7.598-1	7.598-1
4.704-8	1.098 1	1.099 1	3.390 3	1.000 0	3.389 3		4.200-5	7.598-1	7.598-1
8.322-8	1.415 1	1.415 1	2.632 3	1.000 0	2.631 3		4.200-5	7.597-1	7.597-1
1.307-7	1.727 1	1.727 1	2.157 3	1.000 0	2.156 3		4.200-5	7.596-1	7.596-1
1.882-7	2.041 1	2.041 1	1.824 3	1.000 0	1.823 3		4.200-5	7.596-1	7.596-1
2.561-7	2.363 1	2.363 1	1.576 3	1.000 0	1.575 3		4.200-5	7.595-1	7.595-1
3.345-7	2.667 1	2.667 1	1.396 3	1.000 0	1.395 3		4.200-5	7.595-1	7.595-1
4.234-7	2.973 1	2.974 1	1.252 3	1.000 0	1.251 3		4.200-5	7.595-1	7.594-1
5.123-7	3.442 1	3.442 1	1.082 3	1.000 0	1.081 3		4.200-5	7.591-1	7.593-1
7.527-7	4.239 1	4.240 1	8.783 2	1.000 0	8.773 2		4.200-5	7.591-1	7.591-1
1.176-6	5.031 1	5.032 1	7.401 2	1.000 0	7.391 2		4.200-5	7.590-1	7.590-1
1.511-6	5.798 1	5.800 1	6.422 2	1.000 0	6.412 2		4.200-5	7.589-1	7.588-1
2.091-6	6.737 1	6.739 1	5.527 2	1.000 0	5.517 2		4.200-5	7.589-1	7.588-1
2.741-6	7.690 1	7.692 1	4.842 2	1.000 0	4.832 2		4.200-5	7.589-1	7.588-1
3.533-6	8.764 1	8.768 1	4.249 2	1.000 0	4.239 2		4.200-5	7.582-1	7.582-1
4.704-6	9.893 1	9.898 1	3.764 2	1.000 0	3.754 2		4.200-5	7.580-1	7.580-1
5.658-6	1.074 2	1.075 2	3.466 2	1.000 0	3.456 2		4.200-5	7.578-1	7.578-1
6.737-6	1.192 2	1.193 2	3.123 2	1.000 0	3.113 2		4.200-5	7.576-1	7.576-1
8.322-6	1.292 2	1.293 2	2.881 2	1.000 0	2.871 2		4.200-5	7.575-1	7.575-1
9.620-6	1.395 2	1.396 2	2.668 2	1.000 0	2.658 2		4.200-5	7.575-1	7.572-1
1.101-5	1.503 2	1.504 2	2.478 2	1.000 0	2.468 2		4.200-5	7.569-1	7.569-1
1.307-5	1.605 2	1.607 2	2.320 2	1.000 0	2.310 2		4.200-5	7.567-1	7.567-1
1.468-5	1.691 2	1.693 2	2.201 2	1.000 0	2.191 2		4.200-5	7.567-1	7.567-1
1.581-5	1.760 2	1.782 2	2.092 2	1.000 0	2.082 2		4.200-5	7.564-1	7.564-1
1.758-5	1.845 2	1.847 2	2.016 2	1.000 0	2.006 2		4.200-5	7.563-1	7.563-1
1.882-5	1.916 2	1.918 2	1.944 2	1.000 0	1.934 2		4.200-5	7.563-1	7.563-1
2.075-5	2.011 2	2.014 2	1.851 2	1.000 0	1.841 2		4.200-5	7.559-1	7.559-1
2.277-5	2.103 2	2.105 2	1.771 2	1.000 0	1.761 2		4.200-5	7.557-1	7.557-1
2.417-5	2.175 2	2.178 2	1.712 2	1.000 0	1.702 2		4.200-5	7.556-1	7.556-1
2.561-5	2.225 2	2.228 2	1.673 2	1.000 0	1.663 2		4.200-5	7.555-1	7.555-1
2.710-5	2.277 2	2.280 2	1.635 2	1.000 0	1.625 2		4.200-5	7.554-1	7.554-1
2.862-5	2.319 2	2.322 2	1.606 2	1.000 0	1.596 2		4.200-5	7.554-1	7.554-1
2.940-5	2.363 2	2.367 2	1.576 2	1.000 0	1.566 2		4.200-5	7.552-1	7.552-1
3.099-5	2.443 2	2.447 2	1.524 2	1.000 0	1.514 2		4.200-5	7.551-1	7.550-1
3.345-5	2.550 2	2.554 2	1.460 2	1.000 0	1.450 2		4.200-5	7.548-1	7.548-1
3.601-5	2.658 2	2.663 2	1.401 2	1.000 0	1.391 2		4.200-5	7.546-1	7.546-1
3.866-5	2.722 2	2.725 2	1.368 2	1.000 0	1.358 2		4.200-5	7.545-1	7.545-1
4.048-5	2.774 2	2.778 2	1.342 2	1.000 0	1.332 2		4.200-5	7.544-1	7.544-1
4.234-5	2.815 2	2.819 2	1.323 2	1.000 0	1.313 2		4.200-5	7.543-1	7.542-1
4.329-5	2.873 2	2.878 2	1.296 2	1.000 0	1.286 2		4.200-5	7.542-1	7.542-1
4.519-5	2.934 2	2.939 2	1.269 2	1.000 0	1.259 2		4.200-5	7.541-1	7.541-1
4.717-5	2.983 2	2.988 2	1.248 2	1.000 0	1.238 2		4.200-5	7.540-1	7.540-1
4.818-5	3.052 2	3.057 2	1.220 2	1.000 0	1.210 2		4.200-5	7.538-1	7.538-1
5.123-5	3.125 2	3.131 2	1.191 2	1.000 0	1.181 2		4.200-5	7.538-1	7.538-1
5.332-5	3.221 2	3.227 2	1.156 2	1.000 0	1.146 2		4.200-5	7.535-1	7.535-1
5.551-5	3.275 2	3.281 2	1.137 2	1.000 0	1.127 2		4.200-5	7.534-1	7.534-1
5.763-5	3.317 2	3.323 2	1.123 2	1.000 0	1.113 2		4.200-5	7.533-1	7.533-1
6.097-5	3.372 2	3.379 2	1.104 2	1.000 0	1.094 2		4.200-5	7.532-1	7.532-1
6.325-5	3.418 2	3.425 2	1.089 2	1.000 0	1.079 2		4.200-5	7.531-1	7.531-1
6.557-5	3.454 2	3.462 2	1.078 2	1.000 0	1.068 2		4.200-5	7.531-1	7.531-1
6.674-5	3.505 2	3.512 2	1.062 2	1.000 0	1.052 2		4.200-5	7.529-1	7.529-1
7.034-5	3.557 2	3.565 2	1.047 2	1.000 0	1.037 2		4.200-5	7.528-1	7.528-1
7.155-5	3.613 2	3.621 2	1.031 2	1.000 0	1.021 2		4.200-5	7.527-1	7.527-1
7.527-5	3.696 2	3.694 2	1.010 2	1.000 0	1.000 2		4.200-5	7.526-1	7.526-1
7.780-5	3.732 2	3.740 2	9.978 1	1.000 0	9.978 1		4.200-5	7.525-1	7.525-1
7.308-5	3.779 2	3.788 2	9.852 1	1.000 0	9.852 1		4.200-5	7.524-1	7.524-1
8.167-5	3.845 2	3.855 2	9.682 1	1.000 0	9.682 1		4.200-5	7.522-1	7.522-1
8.431-5	3.928 2	3.943 2	9.465 1	1.000 0	9.465 1		4.200-5	7.521-1	7.521-1
8.634-5	4.028 2	4.038 2	9.244 1	1.000 0	9.244 1		4.200-5	7.519-1	7.519-1

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 3.0160 x 10			DENSITY 1.3450 x 4 GRAMS/CC					
ENERGY		MF (CM)		CROSS SECTION (BARNS)			ENERGY DEPOSIT (MEV)	
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL LOCAL	
9.108-5	4.108+2	4.118+2	9.064+1	1.000+0	8.964+1	4.200-5	7.517-1	7.517-1
9.386-5	4.192+2	4.203+2	8.881+1	1.000+0	8.781+1	4.200-5	7.515-1	7.515-1
9.668-5	4.259+2	4.270+2	8.743+1	1.000+0	8.643+1	4.200-5	7.514-1	7.514-1
9.811-5	4.342+2	4.354+2	8.575+1	1.000+0	8.475+1	4.200-5	7.512-1	7.512-1
1.025-4	4.460+2	4.472+2	8.348+1	1.000+0	8.248+1	4.200-5	7.510-1	7.510-1
1.099-4	4.612+2	4.625+2	8.073+1	1.000+0	7.973+1	4.200-5	7.507-1	7.507-1
1.176-4	4.781+2	4.795+2	7.788+1	1.000+0	7.688+1	4.200-5	7.504-1	7.504-1
1.256-4	4.926+2	4.940+2	7.559+1	1.000+0	7.459+1	4.200-5	7.501-1	7.501-1
1.338-4	5.038+2	5.053+2	7.391+1	1.000+0	7.291+1	4.200-5	7.499-1	7.499-1
1.406-4	5.172+2	5.188+2	7.199+1	1.000+0	7.099+1	4.200-5	7.496-1	7.496-1
1.511-4	5.351+2	5.367+2	6.981+1	1.000+0	6.881+1	4.200-5	7.493-1	7.493-1
1.601-4	5.495+2	5.513+2	6.777+1	1.000+0	6.677+1	4.200-5	7.490-1	7.489-1
1.694-4	5.670+2	5.690+2	6.567+1	1.000+0	6.467+1	4.200-5	7.486-1	7.486-1
1.789-4	5.862+2	5.883+2	6.352+1	1.000+0	6.252+1	4.200-5	7.482-1	7.482-1
1.887-4	6.010+2	6.031+2	6.195+1	1.000+0	6.095+1	4.200-5	7.479-1	7.479-1
1.988-4	6.134+2	6.157+2	6.070+1	1.000+0	5.970+1	4.200-5	7.477-1	7.477-1
2.091-4	6.644+2	6.671+2	5.604+1	1.000+0	5.504+1	4.200-5	7.467-1	7.467-1
2.741-4	7.452+2	7.485+2	4.997+1	1.000+0	4.897+1	4.200-5	7.451-1	7.451-1
3.267-4	8.020+2	8.059+2	4.643+1	1.000+0	4.543+1	4.200-5	7.440-1	7.440-1
3.811-4	8.840+2	8.887+2	4.212+1	1.000+0	4.112+1	4.200-5	7.424-1	7.424-1
4.704-4	9.367+2	9.420+2	3.975+1	1.000+0	3.875+1	4.200-5	7.414-1	7.413-1
4.991-4	9.788+2	9.846+2	3.804+1	1.001+0	3.704+1	4.200-5	7.406-1	7.405-1
5.658-4	1.030+3	1.036+3	3.615+1	1.001+0	3.515+1	4.200-5	7.396-1	7.395-1
6.042-4	1.067+3	1.074+3	3.490+1	1.001+0	3.390+1	4.200-5	7.388-1	7.388-1
6.367-4	1.106+3	1.114+3	3.365+1	1.001+0	3.265+1	4.200-5	7.381-1	7.381-1
7.155-4	1.171+3	1.179+3	3.180+1	1.001+0	3.080+1	4.200-5	7.369-1	7.368-1
8.322-4	1.246+3	1.256+3	2.988+1	1.001+0	2.888+1	4.200-5	7.354-1	7.354-1
9.177-4	1.338+3	1.348+3	2.784+1	1.001+0	2.684+1	4.200-5	7.337-1	7.336-1
1.058-3	1.449+3	1.461+3	2.571+1	1.001+0	2.470+1	4.200-5	7.316-1	7.315-1
1.307-3	1.586+3	1.612+3	2.332+1	1.001+0	2.232+1	4.200-5	7.288-1	7.288-1
1.581-3	1.728+3	1.746+3	2.155+1	1.002+0	2.055+1	4.200-5	7.264-1	7.264-1
1.882-3	1.895+3	1.907+3	1.974+1	1.002+0	1.874+1	4.200-5	7.234-1	7.234-1
2.208-3	2.020+3	2.045+3	1.843+1	1.002+0	1.743+1	4.200-5	7.210-1	7.210-1
2.561-3	2.154+3	2.182+3	1.729+1	1.003+0	1.629+1	4.200-5	7.186-1	7.186-1
2.940-3	2.311+3	2.344+3	1.611+1	1.003+0	1.511+1	4.200-5	7.159-1	7.159-1
3.345-3	2.437+3	2.473+3	1.528+1	1.004+0	1.428+1	4.200-5	7.136-1	7.135-1
3.777-3	2.566+3	2.606+3	1.451+1	1.004+0	1.351+1	4.200-5	7.113-1	7.113-1
4.234-3	2.895+3	2.905+3	1.304+1	1.005+0	1.204+1	4.200-5	7.062-1	7.062-1
5.763-3	3.257+3	3.322+3	1.143+1	1.007+0	1.043+1	4.200-5	6.994-1	6.993-1
7.527-3	3.700+3	3.784+3	1.006+1	1.009+0	9.056+0	4.200-5	6.922-1	6.921-1
1.025-2	4.320+3	4.438+3	8.620+0	1.034+0	7.586+0	4.200-5	6.806-1	6.805-1
1.511-2	5.016+3	5.185+3	7.423+0	1.08+0	6.341+0	4.200-5	6.656-1	6.655-1
2.091-2	5.624+3	5.846+3	6.620+0	1.128+0	5.493+0	4.200-5	6.518-1	6.517-1
2.646-2	6.080+3	6.351+3	6.124+0	1.172+0	4.953+0	4.200-5	6.407-1	6.406-1
3.267-2	6.555+3	6.886+3	5.679+0	1.221+0	4.459+0	4.200-5	6.280-1	6.279-1
3.953-2	6.936+3	7.320+3	5.369+0	1.264+0	4.105+0	4.200-5	6.162-1	6.160-1
4.704-2	7.434+3	7.891+3	5.009+0	1.301+0	3.707+0	4.200-5	6.085-1	6.083-1
5.761-2	8.031+3	8.588+3	4.637+0	1.342+0	3.287+0	4.200-5	5.912-1	5.910-1
7.002-2	8.757+3	9.452+3	4.252+0	1.403+0	2.850+0	4.200-5	5.702-1	5.700-1
8.322-2	9.751+3	1.066+4	3.818+0	1.463+0	2.356+0	4.200-5	5.382-1	5.380-1
9.691-2	1.075+4	1.191+4	3.465+0	1.522+0	1.843+0	4.200-5	5.095-1	5.092-1
1.307-1	1.155+4	1.297+4	3.223+0	1.584+0	1.639+0	4.200-5	4.965-1	4.943-1
1.820-1	1.239+4	1.411+4	3.005+0	1.641+0	1.364+0	4.200-5	4.735-1	4.732-1
2.075-1	1.273+4	1.457+4	2.926+0	1.659+0	1.266+0	4.200-5	4.741-1	4.739-1
2.417-1	1.298+4	1.492+4	2.868+0	1.672+0	1.186+0	4.200-5	4.803-1	4.800-1
2.710-1	1.320+4	1.523+4	2.820+0	1.682+0	1.139+0	4.200-5	4.844-1	4.841-1
2.940-1	1.339+4	1.550+4	2.780+0	1.694+0	1.086+0	4.200-5	4.920-1	4.915-1
3.345-1	1.354+4	1.571+4	2.751+0	1.710+0	1.041+0	4.200-5	5.058-1	5.055-1
3.777-1	1.372+4	1.598+4	2.715+0	1.727+0	9.881-1	4.200-5	5.183-1	5.180-1
4.234-1	1.381+4	1.614+4	2.697+0	1.752+0	9.448-1	4.200-5	5.446-1	5.442-1
5.123-1	1.373+4	1.605+4	2.713+0	1.782+0	9.204-1	4.200-5	5.888-1	5.885-1
6.325-1	1.356+4	1.539+4	2.746+0	1.837+0	9.090-1	4.200-5	6.665-1	6.662-1

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ATOMIC WEIGHT 3.0160+ 0		DENSITY 1.3450- 4 GRAMS/CC						
ENERGY MEV	MFP (CM)	CROSS SECTION (BARNS)				ENERGY DEPOSIT(MEV)		
		TOTAL	ELASTIC	ABSORPTN	REMAINDER	TOTAL	LOCAL	
7.527-1	1.338+ 4	1.475+ 4	2.783+ 0	1.883+ 0	9.005- 1	4.200- 5	7.407- 1	7.404- 1
8.834-1	1.307+ 4	1.396+ 4	2.899+ 0	1.961+ 0	8.881- 1	4.200- 5	8.179- 1	8.176- 1
1.025+ 0	1.267+ 4	1.321+ 4	2.938+ 0	2.058+ 0	8.805- 1	4.200- 5	8.875- 1	8.872- 1
1.176+ 0	1.230+ 4	1.309+ 4	3.028+ 0	2.119+ 0	8.753- 1	4.200- 5	9.569- 1	9.566- 1
1.338+ 0	1.192+ 4	1.299+ 4	3.123+ 0	2.249+ 0	8.737- 1	4.200- 5	1.026+ 0	1.028+ 0
1.511+ 0	1.163+ 4	1.301+ 4	3.200+ 0	2.338+ 0	8.621- 1	4.200- 5	1.026+ 0	1.028+ 0
1.694+ 0	1.155+ 4	1.329+ 4	3.225+ 0	2.379+ 0	8.460- 1	4.200- 5	1.162+ 0	1.161+ 0
1.887+ 0	1.163+ 4	1.380+ 4	3.202+ 0	2.377+ 0	8.251- 1	4.200- 5	1.236+ 0	1.236+ 0
2.091+ 0	1.191+ 4	1.444+ 4	3.156+ 0	2.361+ 0	7.953- 1	4.200- 5	1.311+ 0	1.311+ 0
2.305+ 0	1.199+ 4	1.511+ 4	3.108+ 0	2.346+ 0	7.624- 1	4.200- 5	1.386+ 0	1.386+ 0
2.530+ 0	1.220+ 4	1.590+ 4	3.052+ 0	2.326+ 0	7.257- 1	4.200- 5	1.461+ 0	1.461+ 0
2.741+ 0	1.247+ 4	1.673+ 4	2.985+ 0	2.302+ 0	6.824- 1	4.200- 5	1.519+ 0	1.518+ 0
3.011+ 0	1.281+ 4	1.781+ 4	2.906+ 0	2.274+ 0	6.317- 1	4.200- 5	1.578+ 0	1.578+ 0
3.267+ 0	1.319+ 4	1.903+ 4	2.822+ 0	2.244+ 0	5.785- 1	4.200- 5	1.624+ 0	1.623+ 0
3.533+ 0	1.359+ 4	2.038+ 4	2.742+ 0	2.215+ 0	5.271- 1	4.200- 5	1.668+ 0	1.668+ 0
3.811+ 0	1.396+ 4	2.162+ 4	2.667+ 0	2.187+ 0	4.796- 1	4.200- 5	1.710+ 0	1.709+ 0
4.069+ 0	1.438+ 4	2.291+ 4	2.590+ 0	2.145+ 0	4.445- 1	4.200- 5	1.768+ 0	1.768+ 0
4.396+ 0	1.485+ 4	2.446+ 4	2.508+ 0	2.090+ 0	4.181- 1	4.200- 5	1.827+ 0	1.826+ 0
4.704+ 0	1.528+ 4	2.599+ 4	2.437+ 0	2.037+ 0	3.994- 1	4.200- 5	1.878+ 0	1.878+ 0
4.991+ 0	1.579+ 4	2.766+ 4	2.359+ 0	1.977+ 0	3.871- 1	4.200- 5	1.943+ 0	1.943+ 0
5.353+ 0	1.633+ 4	2.913+ 4	2.279+ 0	1.913+ 0	3.670- 1	4.200- 5	2.019+ 0	2.018+ 0
5.658+ 0	1.689+ 4	3.053+ 4	2.210+ 0	1.858+ 0	3.523- 1	4.200- 5	2.098+ 0	2.098+ 0
5.942+ 0	1.741+ 4	3.215+ 4	2.139+ 0	1.801+ 0	3.379- 1	4.200- 5	2.181+ 0	2.180+ 0
6.367+ 0	1.799+ 4	3.364+ 4	2.070+ 0	1.744+ 0	3.256- 1	4.200- 5	2.264+ 0	2.264+ 0
6.737+ 0	1.869+ 4	3.537+ 4	1.992+ 0	1.676+ 0	3.165- 1	4.200- 5	2.367+ 0	2.366+ 0
7.156+ 0	1.935+ 4	3.718+ 4	1.924+ 0	1.618+ 0	3.062- 1	4.200- 5	2.465+ 0	2.465+ 0
7.548+ 0	1.999+ 4	3.894+ 4	1.864+ 0	1.566+ 0	2.972- 1	4.200- 5	2.560+ 0	2.559+ 0
7.910+ 0	2.067+ 4	4.080+ 4	1.802+ 0	1.513+ 0	2.889- 1	4.200- 5	2.662+ 0	2.661+ 0
8.322+ 0	2.149+ 4	4.278+ 4	1.733+ 0	1.453+ 0	2.804- 1	4.200- 5	2.787+ 0	2.786+ 0
8.767+ 0	2.224+ 4	4.485+ 4	1.674+ 0	1.401+ 0	2.733- 1	4.200- 5	2.912+ 0	2.912+ 0
9.177+ 0	2.288+ 4	4.632+ 4	1.627+ 0	1.361+ 0	2.660- 1	4.200- 5	3.033+ 0	3.032+ 0
9.565+ 0	2.378+ 4	4.853+ 4	1.566+ 0	1.307+ 0	2.590- 1	4.200- 5	3.177+ 0	3.176+ 0
1.012+ 1	2.469+ 4	5.076+ 4	1.508+ 0	1.256+ 0	2.525- 1	4.200- 5	3.313+ 0	3.312+ 0
1.058+ 1	2.560+ 4	5.306+ 4	1.454+ 0	1.208+ 0	2.460- 1	4.200- 5	3.442+ 0	3.441+ 0
1.101+ 1	2.650+ 4	5.532+ 4	1.405+ 0	1.165+ 0	2.400- 1	4.200- 5	3.581+ 0	3.580+ 0
1.155+ 1	2.736+ 4	5.769+ 4	1.361+ 0	1.126+ 0	2.345- 1	4.200- 5	3.724+ 0	3.723+ 0
1.199+ 1	2.822+ 4	5.991+ 4	1.319+ 0	1.089+ 0	2.305- 1	4.200- 5	3.874+ 0	3.873+ 0
1.250+ 1	2.930+ 4	6.274+ 4	1.271+ 0	1.046+ 0	2.245- 1	4.200- 5	4.042+ 0	4.042+ 0
1.307+ 1	3.044+ 4	6.586+ 4	1.223+ 0	1.005+ 0	2.193- 1	4.200- 5	4.205+ 0	4.204+ 0
1.354+ 1	3.134+ 4	6.892+ 4	1.188+ 0	9.735- 1	2.147- 1	4.200- 5	4.377+ 0	4.376+ 0
1.386+ 1	3.202+ 4	7.015+ 4	1.163+ 0	9.505- 1	2.122- 1	4.200- 5	4.437+ 0	4.436+ 0
1.413+ 1	3.259+ 4	7.164+ 4	1.143+ 0	9.320- 1	2.106- 1	4.200- 5	4.536+ 0	4.532+ 0
1.441+ 1	3.316+ 4	7.315+ 4	1.123+ 0	9.137- 1	2.091- 1	4.200- 5	4.631+ 0	4.630+ 0
1.468+ 1	3.399+ 4	7.507+ 4	1.095+ 0	8.885- 1	2.068- 1	4.200- 5	4.771+ 0	4.770+ 0
1.519+ 1	3.522+ 4	7.759+ 4	1.057+ 0	8.541- 1	2.032- 1	4.200- 5	4.980+ 0	4.979+ 0
1.575+ 1	3.659+ 4	8.044+ 4	1.018+ 0	8.185- 1	1.991- 1	4.200- 5	5.212+ 0	5.210+ 0
1.633+ 1	3.788+ 4	8.316+ 4	9.835- 1	7.888- 1	1.949- 1	4.200- 5	5.438+ 0	5.437+ 0
1.692+ 1	3.909+ 4	8.577+ 4	9.591- 1	7.634- 1	1.907- 1	4.200- 5	5.662+ 0	5.662+ 0
1.752+ 1	3.997+ 4	8.810+ 4	9.316- 1	7.451- 1	1.864- 1	4.200- 5	5.853+ 0	5.852+ 0
1.813+ 1	4.096+ 4	9.055+ 4	9.091- 1	7.270- 1	1.821- 1	4.200- 5	6.070+ 0	6.069+ 0
1.875+ 1	4.231+ 4	9.398+ 4	8.800- 1	7.045- 1	1.755- 1	4.200- 5	6.366+ 0	6.365+ 0
2.000+ 1								
RESONANCE INTEGRALS		2.434+ 3	3.202+ 1	2.412+ 3		7.352- 4		
MAXWELLIAN AVERAGES		4.768+ 3	3.000+ 0	4.767+ 3		4.200- 5		
1/E AVERAGES		1.390+ 2	1.259+ 0	1.378+ 2		4.200- 5		
FISSION AVERAGES		2.914+ 0	2.076+ 0	8.380- 1		4.200- 5		
FUSION AVERAGES		1.159+ 0	9.473- 1	2.122- 1		4.200- 5		

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ATOMIC WEIGHT		4.0026+ 0		DENSITY 1.7850- 4 GRAMS/CC					
ENERGY		MF (CM)		CROSS SECTION (B/ARMS)			ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307- 9	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.050- 9	1.050- 9
5.227- 9	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				4.202- 9	4.202- 9
2.091- 8	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				8.613- 9	8.613- 9
3.267- 8	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.282- 8	1.282- 8
4.704- 8	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.094- 8	2.094- 8
8.322- 8	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				3.439- 8	3.439- 8
1.307- 7	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				5.126- 8	5.126- 8
1.882- 7	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				7.143- 8	7.143- 8
2.561- 7	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				9.496- 8	9.496- 8
3.345- 7	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.218- 7	1.218- 7
4.234- 7	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.504- 7	1.504- 7
5.123- 7	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.034- 7	2.034- 7
7.527- 7	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				3.101- 7	3.101- 7
1.176- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				4.319- 7	4.319- 7
1.511- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				5.790- 7	5.790- 7
2.091- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				7.768- 7	7.768- 7
2.741- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.008- 6	1.009- 6
3.533- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.324- 6	1.324- 6
4.704- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.666- 6	1.666- 6
5.658- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.993- 6	1.993- 6
6.737- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.421- 6	2.421- 6
8.322- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.894- 6	2.894- 6
9.620- 6	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				3.317- 6	3.317- 6
1.101- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				3.871- 6	3.871- 6
1.307- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				4.461- 6	4.461- 6
1.469- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				4.903- 6	4.903- 6
1.591- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				5.369- 6	5.369- 6
1.759- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				5.852- 6	5.852- 6
1.882- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				6.350- 6	6.350- 6
2.075- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				6.896- 6	6.896- 6
2.277- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				7.546- 6	7.546- 6
2.417- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				8.003- 6	8.003- 6
2.561- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				8.474- 6	8.474- 6
2.710- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				8.958- 6	8.958- 6
2.862- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				9.326- 6	9.326- 6
2.940- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				9.709- 6	9.709- 6
3.099- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.036- 5	1.036- 5
3.345- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.117- 5	1.117- 5
3.601- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.200- 5	1.200- 5
3.866- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.272- 5	1.272- 5
4.048- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.331- 5	1.331- 5
4.234- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.377- 5	1.377- 5
4.329- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.438- 5	1.438- 5
4.619- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.501- 5	1.501- 5
4.717- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.549- 5	1.549- 5
4.918- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.614- 5	1.614- 5
5.123- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.681- 5	1.681- 5
5.332- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.755- 5	1.755- 5
5.654- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.835- 5	1.835- 5
5.763- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.907- 5	1.907- 5
6.097- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				1.997- 5	1.997- 5
6.325- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.071- 5	2.071- 5
6.557- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.127- 5	2.127- 5
6.674- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.204- 5	2.204- 5
7.034- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.291- 5	2.291- 5
7.155- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.360- 5	2.360- 5
7.527- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.461- 5	2.461- 5
7.780- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.522- 5	2.522- 5
7.908- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.584- 5	2.584- 5
8.167- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.668- 5	2.668- 5
8.431- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.776- 5	2.776- 5
8.634- 5	5.101+ 4	6.131+ 4	7.300- 1	7.300- 1				2.884- 5	2.884- 5

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ATOMIC WEIGHT 4.0026 0				DENSITY 1.7050 4 GRAMS/CC			
ENERGY	MFP (C)		CROSS SECTION (BARN)				ENERGY DEPOS (MEV)
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	TOTAL LOCAL
9.108-5	5.101+4	6.131+4	7.300-1	7.300-1			2.973-5 2.973-5
9.386-5	5.101+4	6.131+4	7.300-1	7.300-1			3.063-5 3.063-5
9.668-5	5.101+4	6.131+4	7.300-1	7.300-1			3.131-5 3.131-5
9.811-5	5.101+4	6.131+4	7.300-1	7.300-1			3.224-5 3.224-5
1.025-4	5.101+4	6.131+4	7.300-1	7.300-1			3.414-5 3.414-5
1.099-4	5.101+4	6.131+4	7.300-1	7.300-1			3.650-5 3.650-5
1.175-4	5.101+4	6.131+4	7.300-1	7.300-1			3.910-5 3.910-5
1.256-4	5.101+4	6.131+4	7.300-1	7.300-1			4.170-5 4.170-5
1.339-4	5.101+4	6.131+4	7.300-1	7.300-1			4.411-5 4.411-5
1.405-4	5.101+4	6.131+4	7.300-1	7.300-1			4.689-5 4.689-5
1.511-4	5.101+4	6.131+4	7.300-1	7.300-1			5.002-5 5.002-5
1.601-4	5.101+4	6.131+4	7.300-1	7.300-1			5.295-5 5.295-5
1.694-4	5.101+4	6.131+4	7.300-1	7.300-1			5.599-5 5.599-5
1.789-4	5.101+4	6.131+4	7.300-1	7.300-1			5.910-5 5.910-5
1.887-4	5.101+4	6.131+4	7.300-1	7.300-1			6.229-5 6.229-5
1.989-4	5.101+4	6.131+4	7.300-1	7.300-1			6.557-5 6.557-5
2.091-4	5.101+4	6.131+4	7.300-1	7.300-1			7.768-5 7.768-5
2.741-4	5.101+4	6.131+4	7.300-1	7.300-1			9.659-5 9.659-5
3.267-4	5.101+4	6.131+4	7.300-1	7.300-1			1.139-4 1.139-4
3.811-4	5.101+4	6.131+4	7.300-1	7.300-1			1.369-4 1.369-4
4.704-4	5.101+4	6.131+4	7.300-1	7.300-1			1.559-4 1.559-4
4.991-4	5.101+4	6.131+4	7.300-1	7.300-1			1.712-4 1.712-4
5.659-4	5.101+4	6.131+4	7.300-1	7.300-1			1.881-4 1.881-4
6.042-4	5.101+4	6.131+4	7.300-1	7.300-1			1.995-4 1.995-4
6.367-4	5.101+4	6.131+4	7.300-1	7.300-1			2.174-4 2.174-4
7.155-4	5.101+4	6.131+4	7.300-1	7.300-1			2.468-4 2.468-4
8.322-4	5.101+4	6.131+4	7.300-1	7.300-1			2.813-4 2.813-4
9.177-4	5.101+4	6.131+4	7.300-1	7.300-1			3.177-4 3.177-4
1.058-3	5.101+4	6.131+4	7.300-1	7.300-1			3.803-4 3.803-4
1.307-3	5.101+4	6.131+4	7.300-1	7.300-1			4.643-4 4.643-4
1.581-3	5.101+4	6.131+4	7.300-1	7.300-1			5.567-4 5.567-4
1.882-3	5.101+4	6.131+4	7.300-1	7.300-1			6.575-4 6.575-4
2.208-3	5.101+4	6.131+4	7.300-1	7.300-1			7.668-4 7.668-4
2.561-3	5.101+4	6.131+4	7.300-1	7.300-1			8.844-4 8.844-4
2.940-3	5.101+4	6.131+4	7.300-1	7.300-1			1.010-3 1.010-3
3.345-3	5.101+4	6.131+4	7.300-1	7.300-1			1.145-3 1.145-3
3.777-3	5.101+4	6.131+4	7.300-1	7.300-1			1.288-3 1.288-3
4.234-3	5.101+4	6.131+4	7.300-1	7.300-1			1.607-3 1.607-3
5.763-3	5.101+4	6.131+4	7.300-1	7.300-1			2.137-3 2.137-3
7.527-3	5.101+4	6.131+4	7.300-1	7.300-1			2.857-3 2.857-3
1.025-2	5.085+4	6.113+4	7.321-1	7.321-1			4.076-3 4.076-3
1.511-2	5.058+4	6.079+4	7.362-1	7.362-1			5.794-3 5.794-3
2.091-2	5.027+4	6.008+4	7.405-1	7.405-1			7.771-3 7.771-3
2.616-2	4.997+4	5.909+4	7.452-1	7.452-1			9.825-3 9.825-3
3.267-2	4.963+4	5.720+4	7.503-1	7.503-1			1.209-2 1.209-2
3.953-2	4.926+4	5.625+4	7.559-1	7.559-1			1.463-2 1.463-2
4.704-2	4.881+4	5.516+4	7.629-1	7.629-1			1.788-2 1.788-2
5.761-2	4.824+4	5.377+4	7.719-1	7.719-1			2.212-2 2.212-2
7.002-2	4.763+4	5.224+4	7.819-1	7.819-1			2.690-2 2.690-2
8.322-2	4.695+4	5.064+4	7.930-1	7.930-1			3.250-2 3.250-2
9.891-2	4.640+4	4.907+4	8.025-1	8.025-1			4.205-2 4.205-2
1.307-1	4.592+4	4.665+4	8.110-1	8.110-1			6.002-2 6.002-2
1.820-1	4.498+4	4.297+4	8.277-1	8.277-1			7.760-2 7.760-2
2.075-1	4.375+4	4.062+4	8.511-1	8.511-1			9.208-2 9.208-2
2.417-1	4.239+4	3.804+4	8.783-1	8.783-1			1.079-1 1.079-1
2.710-1	4.110+4	3.594+4	9.051-1	9.051-1			1.216-1 1.216-1
2.940-1	3.932+4	3.355+4	9.469-1	9.469-1			1.395-1 1.395-1
3.345-1	3.678+4	3.055+4	1.012+0	1.012+0			1.606-1 1.606-1
3.777-1	3.365+4	2.724+4	1.106+0	1.106+0			1.834-1 1.834-1
4.234-1	2.844+4	2.275+4	1.309+0	1.309+0			2.133-1 2.133-1
5.123-1	2.058+4	1.658+4	1.808+0	1.808+0			2.580-1 2.580-1
6.325-1	1.323+4	1.094+4	2.815+0	2.815+0			2.930-1 2.930-1

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ENDL 175 Group Neutron Constants

2-He-4

ATOMIC WEIGHT 4.0026 0			DENSITY 1.7850 4 GRAMS/CC				
ENERGY MEV	NFP (CM)		CROSS SECTION (BARN)			ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN REMAINDER GAM-PROD.	TOTAL	LOCAL
7.527-1	8.427+3	7.586+3	4.419+0	4.419+0	0	3.146-1	3.146-1
6.834-1	5.847+3	5.880+3	5.368+0	5.368+0	0	3.287-1	3.287-1
1.025+0	4.944+3	5.621+3	7.532+0	7.532+0	0	3.420-1	3.420-1
1.176+0	5.167+3	6.579+3	7.206+0	7.206+0	0	3.567-1	3.567-1
1.338+0	6.017+3	8.422+3	6.188+0	6.188+0	0	3.750-1	3.750-1
1.511+0	6.914+3	1.049+4	5.385+0	5.385+0	0	3.972-1	3.972-1
1.694+0	8.147+3	1.322+4	4.570+0	4.570+0	0	4.240-1	4.240-1
1.887+0	9.204+3	1.556+4	4.045+0	4.045+0	0	4.563-1	4.563-1
2.091+0	1.017+4	1.782+4	3.662+0	3.662+0	0	4.930-1	4.930-1
2.305+0	1.137+4	2.053+4	3.275+0	3.275+0	0	5.324-1	5.324-1
2.530+0	1.219+4	2.233+4	3.056+0	3.056+0	0	5.761-1	5.761-1
2.741+0	1.292+4	2.377+4	2.881+0	2.881+0	0	6.272-1	6.272-1
3.011+0	1.334+4	2.457+4	2.792+0	2.792+0	0	6.798-1	6.798-1
3.267+0	1.365+4	2.543+4	2.728+0	2.728+0	0	7.289-1	7.289-1
3.533+0	1.399+4	2.637+4	2.662+0	2.662+0	0	7.777-1	7.777-1
3.811+0	1.434+4	2.737+4	2.596+0	2.596+0	0	8.244-1	8.244-1
4.069+0	1.475+4	2.847+4	2.525+0	2.525+0	0	8.754-1	8.754-1
4.396+0	1.521+4	2.975+4	2.448+0	2.448+0	0	9.308-1	9.308-1
4.704+0	1.568+4	3.100+4	2.375+0	2.375+0	0	9.827-1	9.827-1
4.991+0	1.622+4	3.238+4	2.296+0	2.296+0	0	1.037+0	1.037+0
5.353+0	1.681+4	3.397+4	2.215+0	2.215+0	0	1.091+0	1.091+0
5.658+0	1.748+4	3.568+4	2.130+0	2.130+0	0	1.147+0	1.147+0
6.042+0	1.822+4	3.767+4	2.044+0	2.044+0	0	1.204+0	1.204+0
6.367+0	1.900+4	3.960+4	1.959+0	1.959+0	0	1.261+0	1.261+0
6.737+0	1.996+4	4.197+4	1.866+0	1.866+0	0	1.324+0	1.324+0
7.156+0	2.076+4	4.411+4	1.794+0	1.794+0	0	1.388+0	1.388+0
7.548+0	2.148+4	4.610+4	1.733+0	1.733+0	0	1.447+0	1.447+0
7.910+0	2.223+4	4.813+4	1.675+0	1.675+0	0	1.507+0	1.507+0
8.322+0	2.301+4	5.023+4	1.618+0	1.618+0	0	1.576+0	1.576+0
8.787+0	2.383+4	5.243+4	1.562+0	1.562+0	0	1.642+0	1.642+0
9.177+0	2.474+4	5.479+4	1.505+0	1.505+0	0	1.711+0	1.711+0
9.665+0	2.578+4	5.759+4	1.444+0	1.444+0	0	1.785+0	1.785+0
1.012+1	2.671+4	6.004+4	1.394+0	1.394+0	0	1.864+0	1.864+0
1.058+1	2.762+4	6.211+4	1.348+0	1.348+0	0	1.942+0	1.942+0
1.101+1	2.867+4	6.451+4	1.299+0	1.299+0	0	2.027+0	2.027+0
1.155+1	2.982+4	6.715+4	1.249+0	1.249+0	0	2.114+0	2.114+0
1.199+1	3.093+4	6.969+4	1.204+0	1.204+0	0	2.198+0	2.198+0
1.250+1	3.218+4	7.204+4	1.157+0	1.157+0	0	2.288+0	2.288+0
1.307+1	3.348+4	7.522+4	1.112+0	1.112+0	0	2.371+0	2.371+0
1.354+1	3.455+4	7.752+4	1.078+0	1.078+0	0	2.434+0	2.434+0
1.386+1	3.539+4	7.934+4	1.052+0	1.052+0	0	2.480+0	2.480+0
1.413+1	3.620+4	8.109+4	1.029+0	1.029+0	0	2.523+0	2.523+0
1.441+1	3.704+4	8.290+4	1.005+0	1.005+0	0	2.567+0	2.567+0
1.468+1	3.769+4	8.476+4	9.879+0	9.879+0	0	2.622+0	2.622+0
1.519+1	3.845+4	8.929+4	9.685+0	9.685+0	0	2.635+0	2.635+0
1.575+1	3.929+4	9.477+4	9.477+0	9.477+0	0	2.630+0	2.630+0
1.633+1	4.019+4	1.009+5	9.266+0	9.266+0	0	2.626+0	2.626+0
1.692+1	4.114+4	1.078+5	9.050+0	9.050+0	0	2.621+0	2.621+0
1.752+1	4.251+4	1.165+5	8.759+0	8.759+0	0	2.599+0	2.599+0
1.813+1	4.432+4	1.275+5	8.402+0	8.402+0	0	2.562+0	2.562+0
1.875+1	4.737+4	1.434+5	7.861+0	7.861+0	0	2.506+0	2.506+0
2.000+1							
RESONANCE INTEGRALS			2.178+1	2.178+1			
MAXWELLIAN AVERAGES			7.300-1	7.300-1			
1/E AVERAGES			1.244+0	1.244+0			
FISSION AVERAGES			3.651+0	3.651+0			
FUSION AVERAGES			1.047+0	1.047+0			

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ENDL 175 Group Neutron Constants

3-Li-6

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ENDL 175 Group Neutron Constants

3-Li-6

ATOMIC WEIGHT		6.0151+ 0		DENSITY		4.6290 - 1 GRAMS/CC				
ENERGY		MFP (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307- 9	7.788- 3	7.780- 3	2.771+ 3	7.000- 1	2.777+ 3	1.835- 1	4.789+ 0	4.789+ 0	4.789+ 0	4.789+ 0
5.227- 9	1.557- 2	1.557- 2	1.386+ 3	7.000- 1	1.362+ 3	9.178- 2	4.788+ 0	4.787+ 0	4.788+ 0	4.787+ 0
2.091- 8	2.335- 2	2.335- 2	9.242+ 2	7.000- 1	9.235+ 2	6.119- 2	4.785+ 0	4.786+ 0	4.785+ 0	4.786+ 0
3.267- 8	2.853- 2	2.853- 2	7.563+ 2	7.000- 1	7.556+ 2	5.006- 2	4.786+ 0	4.785+ 0	4.786+ 0	4.785+ 0
4.704- 8	3.625- 2	3.626- 2	5.932+ 2	7.000- 1	5.975+ 2	3.939- 2	4.784+ 0	4.784+ 0	4.784+ 0	4.784+ 0
6.322- 8	4.661- 2	4.662- 2	4.629+ 2	7.000- 1	4.622+ 2	3.062- 2	4.783+ 0	4.783+ 0	4.783+ 0	4.783+ 0
1.307- 7	5.702- 2	5.703- 2	3.784+ 2	7.000- 1	3.777+ 2	2.503- 2	4.781+ 0	4.781+ 0	4.781+ 0	4.781+ 0
1.892- 7	6.736- 2	6.738- 2	3.203+ 2	7.000- 1	3.196+ 2	2.118- 2	4.780+ 0	4.779+ 0	4.780+ 0	4.779+ 0
2.561- 7	7.770- 2	7.772- 2	2.777+ 2	7.000- 1	2.770+ 2	1.835- 2	4.778+ 0	4.778+ 0	4.778+ 0	4.778+ 0
3.345- 7	8.804- 2	8.806- 2	2.451+ 2	7.000- 1	2.444+ 2	1.619- 2	4.776+ 0	4.776+ 0	4.776+ 0	4.776+ 0
4.234- 7	9.784- 2	9.788- 2	2.205+ 2	7.000- 1	2.198+ 2	1.457- 2	4.775+ 0	4.775+ 0	4.775+ 0	4.775+ 0
5.123- 7	1.133- 1	1.134- 1	1.904+ 2	7.000- 1	1.897+ 2	1.257- 2	4.773+ 0	4.772+ 0	4.773+ 0	4.772+ 0
7.527- 7	1.396- 1	1.396- 1	1.546+ 2	7.000- 1	1.533+ 2	1.020- 2	4.768+ 0	4.768+ 0	4.768+ 0	4.768+ 0
1.176- 6	1.652- 1	1.653- 1	1.306+ 2	7.000- 1	1.299+ 2	8.506- 3	4.764+ 0	4.764+ 0	4.764+ 0	4.764+ 0
1.511- 6	1.909- 1	1.910- 1	1.130+ 2	7.000- 1	1.123+ 2	7.443- 3	4.760+ 0	4.760+ 0	4.760+ 0	4.760+ 0
2.091- 6	2.211- 1	2.213- 1	9.759+ 1	7.000- 1	9.688+ 1	6.419- 3	4.756+ 0	4.756+ 0	4.756+ 0	4.756+ 0
2.741- 6	2.518- 1	2.521- 1	8.569+ 1	7.000- 1	8.499+ 1	5.631- 3	4.751+ 0	4.751+ 0	4.751+ 0	4.751+ 0
3.533- 6	2.880- 1	2.884- 1	7.491+ 1	7.000- 1	7.421+ 1	4.917- 3	4.745+ 0	4.745+ 0	4.745+ 0	4.745+ 0
4.704- 6	3.232- 1	3.236- 1	6.676+ 1	7.000- 1	6.606+ 1	4.377- 3	4.740+ 0	4.740+ 0	4.740+ 0	4.740+ 0
5.658- 6	3.532- 1	3.536- 1	6.110+ 1	7.000- 1	6.040+ 1	4.002- 3	4.735+ 0	4.735+ 0	4.735+ 0	4.735+ 0
6.737- 6	3.886- 1	3.892- 1	5.552+ 1	7.000- 1	5.482+ 1	3.632- 3	4.730+ 0	4.729+ 0	4.730+ 0	4.729+ 0
8.322- 6	4.240- 1	4.247- 1	5.088+ 1	7.000- 1	5.018+ 1	3.323- 3	4.724+ 0	4.724+ 0	4.724+ 0	4.724+ 0
9.620- 6	4.543- 1	4.551- 1	4.749+ 1	7.000- 1	4.679+ 1	3.100- 3	4.720+ 0	4.719+ 0	4.720+ 0	4.719+ 0
1.101- 5	4.901- 1	4.910- 1	4.403+ 1	7.000- 1	4.333+ 1	2.877- 3	4.714+ 0	4.714+ 0	4.714+ 0	4.714+ 0
1.307- 5	5.258- 1	5.268- 1	4.100+ 1	7.000- 1	4.034+ 1	2.673- 3	4.708+ 0	4.708+ 0	4.708+ 0	4.708+ 0
1.468- 5	5.508- 1	5.519- 1	3.917+ 1	7.000- 1	3.847+ 1	2.549- 3	4.705+ 0	4.704+ 0	4.705+ 0	4.704+ 0
1.581- 5	5.758- 1	5.771- 1	3.747+ 1	7.000- 1	3.677+ 1	2.436- 3	4.701+ 0	4.700+ 0	4.701+ 0	4.700+ 0
1.758- 5	6.008- 1	6.021- 1	3.591+ 1	7.000- 1	3.521+ 1	2.333- 3	4.697+ 0	4.696+ 0	4.697+ 0	4.696+ 0
1.892- 5	6.258- 1	6.272- 1	3.448+ 1	7.000- 1	3.378+ 1	2.238- 3	4.693+ 0	4.693+ 0	4.693+ 0	4.693+ 0
2.075- 5	6.506- 1	6.522- 1	3.291+ 1	7.000- 1	3.221+ 1	2.134- 3	4.688+ 0	4.688+ 0	4.688+ 0	4.688+ 0
2.277- 5	6.805- 1	6.822- 1	3.171+ 1	7.000- 1	3.101+ 1	2.054- 3	4.684+ 0	4.684+ 0	4.684+ 0	4.684+ 0
2.417- 5	7.004- 1	7.022- 1	3.081+ 1	7.000- 1	3.011+ 1	1.995- 3	4.681+ 0	4.681+ 0	4.681+ 0	4.681+ 0
2.561- 5	7.202- 1	7.221- 1	2.996+ 1	7.000- 1	2.926+ 1	1.939- 3	4.678+ 0	4.678+ 0	4.678+ 0	4.678+ 0
2.710- 5	7.400- 1	7.420- 1	2.916+ 1	7.000- 1	2.846+ 1	1.886- 3	4.675+ 0	4.675+ 0	4.675+ 0	4.675+ 0
2.862- 5	7.548- 1	7.569- 1	2.859+ 1	7.000- 1	2.789+ 1	1.840- 3	4.673+ 0	4.673+ 0	4.673+ 0	4.673+ 0
2.940- 5	7.697- 1	7.718- 1	2.803+ 1	7.000- 1	2.733+ 1	1.811- 3	4.671+ 0	4.670+ 0	4.671+ 0	4.670+ 0
3.099- 5	7.843- 1	7.866- 1	2.717+ 1	7.000- 1	2.647+ 1	1.753- 3	4.667+ 0	4.666+ 0	4.667+ 0	4.666+ 0
3.345- 5	8.231- 1	8.264- 1	2.619+ 1	7.000- 1	2.549+ 1	1.699- 3	4.662+ 0	4.662+ 0	4.662+ 0	4.662+ 0
3.601- 5	8.534- 1	8.560- 1	2.528+ 1	7.000- 1	2.458+ 1	1.629- 3	4.658+ 0	4.657+ 0	4.658+ 0	4.657+ 0
3.966- 5	8.779- 1	8.807- 1	2.458+ 1	7.000- 1	2.388+ 1	1.582- 3	4.654+ 0	4.653+ 0	4.654+ 0	4.653+ 0
4.048- 5	8.975- 1	9.005- 1	2.404+ 1	7.000- 1	2.334+ 1	1.547- 3	4.651+ 0	4.650+ 0	4.651+ 0	4.650+ 0
4.234- 5	9.122- 1	9.152- 1	2.366+ 1	7.000- 1	2.296+ 1	1.521- 3	4.648+ 0	4.648+ 0	4.648+ 0	4.648+ 0
4.329- 5	9.317- 1	9.349- 1	2.316+ 1	7.000- 1	2.246+ 1	1.488- 3	4.645+ 0	4.645+ 0	4.645+ 0	4.645+ 0
4.619- 5	9.513- 1	9.546- 1	2.268+ 1	7.000- 1	2.198+ 1	1.457- 3	4.642+ 0	4.642+ 0	4.642+ 0	4.642+ 0
4.717- 5	9.699- 1	9.693- 1	2.234+ 1	7.000- 1	2.164+ 1	1.434- 3	4.640+ 0	4.640+ 0	4.640+ 0	4.640+ 0
4.918- 5	9.953- 1	9.899- 1	2.190+ 1	7.000- 1	2.120+ 1	1.405- 3	4.637+ 0	4.637+ 0	4.637+ 0	4.637+ 0
5.123- 5	1.005+ 0	1.009+ 0	2.147+ 1	7.000- 1	2.077+ 1	1.376- 3	4.634+ 0	4.634+ 0	4.634+ 0	4.634+ 0
5.332- 5	1.029+ 0	1.033+ 0	2.087+ 1	7.000- 1	2.027+ 1	1.343- 3	4.630+ 0	4.630+ 0	4.630+ 0	4.630+ 0
5.654- 5	1.048+ 0	1.052+ 0	2.058+ 1	7.000- 1	1.989+ 1	1.317- 3	4.627+ 0	4.627+ 0	4.627+ 0	4.627+ 0
5.763- 5	1.068+ 0	1.072+ 0	2.021+ 1	7.000- 1	1.951+ 1	1.292- 3	4.624+ 0	4.624+ 0	4.624+ 0	4.624+ 0
6.097- 5	1.092+ 0	1.096+ 0	1.976+ 1	7.000- 1	1.906+ 1	1.263- 3	4.620+ 0	4.620+ 0	4.620+ 0	4.620+ 0
6.325- 5	1.111+ 0	1.116+ 0	1.941+ 1	7.000- 1	1.871+ 1	1.240- 3	4.617+ 0	4.617+ 0	4.617+ 0	4.617+ 0
6.557- 5	1.126+ 0	1.130+ 0	1.917+ 1	7.000- 1	1.847+ 1	1.224- 3	4.615+ 0	4.615+ 0	4.615+ 0	4.615+ 0
6.674- 5	1.145+ 0	1.150+ 0	1.884+ 1	7.000- 1	1.814+ 1	1.202- 3	4.612+ 0	4.612+ 0	4.612+ 0	4.612+ 0
7.034- 5	1.164+ 0	1.169+ 0	1.853+ 1	7.000- 1	1.783+ 1	1.182- 3	4.609+ 0	4.609+ 0	4.609+ 0	4.609+ 0
7.155- 5	1.184+ 0	1.189+ 0	1.823+ 1	7.000- 1	1.753+ 1	1.152- 3	4.606+ 0	4.606+ 0	4.606+ 0	4.606+ 0
7.527- 5	1.208+ 0	1.213+ 0	1.787+ 1	7.000- 1	1.717+ 1	1.127- 3	4.603+ 0	4.603+ 0	4.602+ 0	4.602+ 0
7.780- 5	1.222+ 0	1.227+ 0	1.766+ 1	7.000- 1	1.696+ 1	1.124- 3	4.600+ 0	4.600+ 0	4.600+ 0	4.600+ 0
7.908- 5	1.236+ 0	1.242+ 0	1.745+ 1	7.000- 1	1.675+ 1	1.110- 3	4.598+ 0	4.598+ 0	4.598+ 0	4.598+ 0
8.167- 5	1.255+ 0	1.261+ 0	1.719+ 1	7.000- 1	1.649+ 1	1.092- 3	4.595+ 0	4.595+ 0	4.595+ 0	4.595+ 0
8.431- 5	1.279+ 0	1.285+ 0	1.687+ 1	7.000- 1	1.617+ 1	1.071- 3	4.591+ 0	4.591+ 0	4.591+ 0	4.591+ 0
8.834- 5	1.303+ 0	1.309+ 0	1.656+ 1	7.000- 1	1.586+ 1	1.051- 3	4.588+ 0	4.587+ 0	4.588+ 0	4.587+ 0

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ENDL 175 Group Neutron Constants

3-Li-6

ATOMIC WEIGHT		6.0151 ± 0		CROSS SECTION (BARNs)					DENSITY 4.6290 - 1 GRAMS/CC	
ENERGY		MF (CM)							ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB+IN REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.108	5	1.320	0	1.329	0	1.632	1	1.035	3	
9.386	5	1.341	0	1.348	0	1.609	1	1.019	3	
9.569	5	1.395	0	1.362	0	1.592	1	1.008	3	
9.811	5	1.374	0	1.381	0	1.570	1	9.839	5	
1.025	4	1.411	0	1.419	0	1.529	1	9.865	4	
1.099	4	1.459	0	1.467	0	1.479	1	9.535	4	
1.176	4	1.576	0	1.514	0	1.433	1	9.028	4	
1.256	4	1.513	0	1.561	0	1.390	1	8.744	4	
1.330	4	1.495	0	1.605	0	1.353	1	8.498	4	
1.405	4	1.642	0	1.551	0	1.314	1	8.245	4	
1.511	4	1.653	0	1.703	0	1.275	1	8.004	4	
1.601	4	1.739	0	1.750	0	1.241	1	7.758	4	
1.694	4	1.785	0	1.797	0	1.209	1	7.596	4	
1.789	4	1.831	0	1.844	0	1.178	1	7.342	4	
1.887	4	1.877	0	1.890	0	1.150	1	7.153	4	
1.986	4	1.923	0	1.936	0	1.122	1	6.972	4	
2.091	4	2.077	0	2.093	0	1.091	1	6.802	4	
2.141	4	2.321	0	2.321	0	9.376	0	5.749	4	
2.267	4	2.483	0	2.505	0	8.632	0	5.295	4	
2.311	4	2.703	0	2.727	0	7.991	0	4.831	4	
2.470	4	2.868	0	2.896	0	7.524	0	4.521	4	
2.591	4	2.945	0	3.024	0	7.213	0	4.316	4	
2.698	4	3.122	0	3.158	0	6.912	0	4.110	4	
2.842	4	3.205	0	3.243	0	6.731	0	3.996	4	
2.937	4	3.332	0	3.371	0	6.435	0	3.829	4	
3.056	4	3.525	0	3.581	0	6.104	0	3.580	4	
3.182	4	3.723	0	3.772	0	5.780	0	3.365	4	
3.317	4	3.938	0	3.974	0	5.462	0	3.169	4	
3.458	4	4.253	0	4.319	0	5.074	0	2.894	4	
3.607	4	4.632	0	4.712	0	4.657	0	2.639	4	
3.761	4	5.023	0	5.095	0	4.315	0	2.397	4	
3.922	4	5.362	0	5.439	0	4.024	0	2.202	4	
4.091	4	5.712	0	5.833	0	3.778	0	2.039	4	
4.268	4	6.062	0	6.188	0	3.455	0	1.899	4	
4.450	4	6.363	0	6.534	0	3.391	0	1.776	4	
4.637	4	6.705	0	6.872	0	3.218	0	1.668	4	
4.829	4	7.019	0	7.202	0	3.074	0	1.573	4	
5.024	4	7.283	0	7.480	0	2.831	0	1.412	4	
5.233	4	7.475	0	7.742	0	2.546	0	1.223	4	
5.447	4	7.932	0	8.211	0	2.288	0	1.059	4	
5.667	4	8.395	0	8.795	0	2.041	0	0.889	4	
5.891	4	8.863	0	9.381	0	1.823	0	0.717	4	
6.121	4	9.386	0	9.971	0	1.678	0	6.550	5	
6.366	4	9.962	0	1.357	1	1.598	0	6.426	5	
6.617	4	1.400	1	1.441	1	1.541	0	6.424	5	
6.883	4	1.459	1	1.493	1	1.479	0	6.422	5	
7.164	4	1.517	1	1.544	1	1.423	0	6.419	5	
7.459	4	1.525	1	1.543	1	1.415	0	6.417	5	
7.767	4	1.520	1	1.534	1	1.420	0	6.411	5	
8.087	4	1.470	1	1.480	1	1.468	0	6.407	5	
8.419	4	1.330	1	1.335	1	1.623	0	6.399	5	
8.763	4	1.271	1	1.271	1	2.719	0	6.386	5	
9.119	4	1.150	1	1.179	1	2.854	0	6.374	5	
9.487	4	1.075	1	1.093	1	2.934	0	6.359	5	
9.867	4	1.043	1	1.065	1	2.930	0	6.354	5	
10.259	4	1.003	1	1.020	1	3.011	0	6.346	5	
10.663	4	0.961	1	0.979	1	3.498	0	6.336	5	
11.079	4	0.908	1	0.926	1	3.544	0	6.323	5	
11.507	4	0.853	1	0.868	1	2.696	0	6.308	5	
11.947	4	0.825	1	0.838	1	2.118	0	6.288	5	
12.400	4	0.755	1	0.761	1	1.719	0	6.255	5	
6.325	1	1.365	1	1.606	1	1.557	0	6.217	5	
						1.191	0	6.217	5	

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ENDL 175 Group Neutron Constants

3-Li-6

ATOMIC WEIGHT		6.015110		DENSITY		4.6290-1 GRAMS/CC					
ENERGY		MFP (CM)		CROSS SECTION (BARN)		ENERGY DEPOSIT (MEV)					
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	REMAINDER	GAM PROD	TOTAL	LOCAL	
7.527-1	1.493-1	1.019-1	1.445-1	1.106-1	3.395-1	6.178-5	1.452-1	1.451-1	1.451-1	1.451-1	
6.834-1	1.571-1	1.914-1	1.374-0	1.049-1	3.243-1	6.135-5	1.513-1	1.517-1	1.517-1	1.517-1	
1.025-0	1.632-1	1.991-1	1.322-1	1.018-1	3.040-1	6.089-5	1.538-1	1.537-1	1.537-1	1.537-1	
1.176-0	1.668-1	2.053-1	1.278-1	9.991-1	2.789-1	6.039-5	1.534-1	1.534-1	1.534-1	1.534-1	
1.336-0	1.752-1	2.124-1	1.231-1	9.791-1	2.522-1	5.987-5	1.521-1	1.521-1	1.521-1	1.521-1	
1.511-0	1.775-1	2.141-1	1.215-1	9.768-1	2.390-1	5.931-5	1.524-1	1.524-1	1.524-1	1.524-1	
1.694-0	1.741-1	2.085-1	1.240-1	9.938-1	2.311-1	5.872-5	1.584-1	1.584-1	1.584-1	1.584-1	
1.887-0	1.552-1	1.874-1	1.390-1	1.129-1	2.339-1	5.809-5	1.515-1	1.515-1	1.515-1	1.515-1	
2.091-0	1.413-1	1.669-1	1.527-1	1.249-1	2.212-1	5.685-5	1.442-1	1.442-1	1.442-1	1.442-1	
2.305-0	1.350-1	1.583-1	1.598-1	1.304-1	2.058-1	5.674-5	1.414-1	1.414-1	1.414-1	1.414-1	
2.530-0	1.326-1	1.550-1	1.628-1	1.312-1	1.865-1	5.606-5	1.380-1	1.380-1	1.380-1	1.380-1	
2.741-0	1.288-1	1.455-1	1.676-1	1.270-1	1.645-1	5.530-5	1.370-1	1.370-1	1.370-1	1.370-1	
2.911-0	1.228-1	1.439-1	1.757-1	1.232-1	1.405-1	5.447-5	1.355-1	1.355-1	1.355-1	1.355-1	
3.267-0	1.161-1	1.321-1	1.956-1	1.139-1	1.249-1	5.365-5	1.348-1	1.348-1	1.348-1	1.348-1	
3.533-0	1.087-1	1.272-1	1.984-1	1.140-1	1.208-1	5.152-5	1.279-1	1.279-1	1.279-1	1.279-1	
3.811-0	1.043-1	1.266-1	2.069-1	1.063-1	1.051-1	5.195-5	1.316-1	1.316-1	1.316-1	1.316-1	
4.099-0	1.033-1	1.302-1	2.169-1	1.030-1	9.386-1	5.103-5	1.355-1	1.355-1	1.355-1	1.355-1	
4.398-0	1.029-1	1.354-1	2.286-1	1.038-1	8.600-1	5.003-5	1.412-1	1.412-1	1.412-1	1.412-1	
4.704-0	1.036-1	1.446-1	2.482-1	1.020-1	7.600-1	4.909-5	1.469-1	1.469-1	1.469-1	1.469-1	
4.991-0	1.048-1	1.511-1	2.753-1	1.005-1	6.797-1	4.807-5	1.544-1	1.544-1	1.544-1	1.544-1	
5.353-0	1.059-1	1.560-1	3.038-1	9.946-1	6.501-1	4.702-5	1.618-1	1.618-1	1.618-1	1.618-1	
5.658-0	1.075-1	1.607-1	3.338-1	9.971-1	6.499-1	4.594-5	1.710-1	1.710-1	1.710-1	1.710-1	
6.042-0	1.091-1	1.658-1	3.658-1	9.953-1	6.442-1	4.482-5	1.792-1	1.792-1	1.792-1	1.792-1	
6.367-0	1.105-1	1.725-1	3.953-1	9.927-1	6.310-1	4.373-5	1.856-1	1.856-1	1.856-1	1.856-1	
6.737-0	1.130-1	1.823-1	4.210-1	9.890-1	6.207-1	4.248-5	1.928-1	1.928-1	1.928-1	1.928-1	
7.156-0	1.148-1	1.919-1	4.479-1	9.846-1	6.113-1	4.121-5	1.951-1	1.951-1	1.951-1	1.951-1	
7.548-0	1.157-1	1.985-1	4.665-1	9.810-1	6.025-1	4.002-5	2.017-1	2.017-1	2.017-1	2.017-1	
7.910-0	1.171-1	2.030-1	4.842-1	9.766-1	5.944-1	3.880-5	2.085-1	2.085-1	2.085-1	2.085-1	
8.322-0	1.212-1	2.142-1	5.011-1	9.711-1	5.862-1	3.742-5	2.143-1	2.143-1	2.143-1	2.143-1	
8.767-0	1.241-1	2.244-1	5.139-1	9.652-1	5.742-1	3.658-5	2.184-1	2.184-1	2.184-1	2.184-1	
9.177-0	1.260-1	2.311-1	5.213-1	9.587-1	5.623-1	3.559-5	2.247-1	2.247-1	2.247-1	2.247-1	
9.665-0	1.279-1	2.360-1	5.287-1	9.517-1	5.506-1	3.421-5	2.331-1	2.331-1	2.331-1	2.331-1	
1.012-1	1.296-1	2.443-1	5.355-1	9.442-1	5.384-1	3.316-5	2.404-1	2.404-1	2.404-1	2.404-1	
1.058-1	1.311-1	2.506-1	5.424-1	9.367-1	5.264-1	3.206-5	2.469-1	2.469-1	2.469-1	2.469-1	
1.101-1	1.338-1	2.572-1	5.491-1	9.289-1	5.144-1	3.094-5	2.555-1	2.555-1	2.555-1	2.555-1	
1.155-1	1.375-1	2.648-1	5.570-1	9.211-1	5.024-1	2.980-5	2.668-1	2.668-1	2.668-1	2.668-1	
1.199-1	1.407-1	2.714-1	5.644-1	9.132-1	4.904-1	2.868-5	2.794-1	2.794-1	2.794-1	2.794-1	
1.250-1	1.439-1	2.784-1	5.703-1	9.051-1	4.784-1	2.751-5	2.908-1	2.908-1	2.908-1	2.908-1	
1.307-1	1.471-1	2.865-1	5.766-1	8.969-1	4.664-1	2.641-5	3.021-1	3.021-1	3.021-1	3.021-1	
1.354-1	1.498-1	2.928-1	5.821-1	8.887-1	4.544-1	2.528-5	3.110-1	3.110-1	3.110-1	3.110-1	
1.386-1	1.518-1	2.974-1	5.871-1	8.806-1	4.424-1	2.428-5	3.177-1	3.177-1	3.177-1	3.177-1	
1.413-1	1.539-1	3.016-1	5.902-1	8.726-1	4.304-1	2.328-5	3.240-1	3.240-1	3.240-1	3.240-1	
1.441-1	1.560-1	3.046-1	5.933-1	8.646-1	4.184-1	2.228-5	3.306-1	3.306-1	3.306-1	3.306-1	
1.468-1	1.581-1	3.080-1	5.964-1	8.566-1	4.064-1	2.128-5	3.418-1	3.418-1	3.418-1	3.418-1	
1.519-1	1.606-1	3.073-1	5.994-1	8.486-1	3.944-1	2.028-5	3.568-1	3.568-1	3.568-1	3.568-1	
1.575-1	1.633-1	3.087-1	6.024-1	8.406-1	3.824-1	1.928-5	3.777-1	3.777-1	3.777-1	3.777-1	
1.633-1	1.662-1	3.101-1	6.054-1	8.326-1	3.704-1	1.828-5	3.977-1	3.977-1	3.977-1	3.977-1	
1.692-1	1.693-1	3.115-1	6.084-1	8.246-1	3.584-1	1.728-5	4.188-1	4.188-1	4.188-1	4.188-1	
1.752-1	1.725-1	3.128-1	6.114-1	8.166-1	3.464-1	1.628-5	4.411-1	4.411-1	4.411-1	4.411-1	
1.813-1	1.759-1	3.141-1	6.144-1	8.086-1	3.344-1	1.528-5	4.647-1	4.647-1	4.647-1	4.647-1	
1.875-1	1.814-1	3.158-1	6.174-1	8.006-1	3.224-1	1.428-5	5.023-1	5.023-1	5.023-1	5.023-1	
2.000-1											
RESONANCE INTEGRALS		4.442-2		1.75E-1		4.255-2		1.073-0		2.830-2	
MAXWELLIAN AVERAGES		8.407-2		7.000-1		8.400-2				5.566-2	
1/E AVERAGES		2.537-1		1.005-0		2.431-1		5.128-2		1.117-3	
FISSION AVERAGES		1.932-0		1.390-0		3.687-1		1.441-1		5.779-5	
FUSION AVERAGES		1.417-0		8.838-1		4.084-2		4.920-1		2.007-5	

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ENDL 175 Group Neutron Constants

 ${}^3\text{Li-7}$

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ENCL 175 Group Neutron Constants

3-Li-7

ATOMIC WEIGHT		7.0160 × 10		DENSITY 5.3993-1 GRAMS/CC							
ENERGY		MEV (CM)		CROSS SECTION (BARN'S)						ENERGY DEPOSIT(MEV)	
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL			
3.07-9	1.830	2.010-1	1.179-0	1.100-0	7.911-2	6.953-2	1.352-1	1.899-5			
5.227-9	1.899	2.081-1	1.142-0	1.100-0	4.220-2	4.558-2	7.501-2	1.019-5			
2.931-8	1.910	2.107-1	1.130-0	1.100-0	2.963-2	3.200-2	5.325-2	7.234-6			
3.267-8	1.918	2.116-1	1.125-0	1.100-0	2.525-2	2.727-2	4.954-2	6.192-6			
4.70-7	1.927	2.127-1	1.109-0	1.100-0	1.981-2	2.183-2	4.082-2	5.168-6			
6.322-6	1.934	2.136-1	1.116-0	1.100-0	1.581-2	1.708-2	2.877-2	3.929-6			
1.307-7	1.938	2.141-1	1.113-0	1.100-0	1.344-2	1.452-2	2.451-2	3.364-6			
1.882-7	1.942	2.145-1	1.111-0	1.100-0	1.137-2	1.228-2	2.077-2	2.870-6			
2.561-7	1.944	2.148-1	1.110-0	1.100-0	1.017-2	1.098-2	1.860-2	2.592-6			
3.345-7	1.946	2.150-1	1.109-0	1.100-0	8.869-3	9.578-3	1.624-2	2.289-6			
4.23-6	1.948	2.152-1	1.108-0	1.100-0	8.127-3	8.777-3	1.462-2	2.099-6			
5.123-7	1.949	2.154-1	1.107-0	1.100-0	7.251-3	7.799-3	1.324-2	1.939-6			
7.527-7	1.951	2.157-1	1.106-0	1.100-0	6.049-3	6.533-3	1.110-2	1.723-6			
1.176-6	1.953	2.158-1	1.105-0	1.100-0	5.348-3	5.775-3	9.821-3	1.633-6			
1.531-6	1.954	2.160-1	1.104-0	1.100-0	4.488-3	4.847-3	8.250-3	1.520-6			
2.291-6	1.956	2.162-1	1.104-0	1.100-0	3.871-3	4.181-3	7.120-3	1.503-6			
2.741-6	1.956	2.162-1	1.103-0	1.100-0	3.752-3	4.062-3	6.662-3	1.556-6			
3.533-6	1.956	2.163-1	1.103-0	1.100-0	3.014-3	3.255-3	5.598-3	1.666-6			
4.704-6	1.957	2.163-1	1.103-0	1.100-0	2.193-3	3.017-3	5.143-3	1.845-6			
5.958-6	1.957	2.164-1	1.103-0	1.100-0	2.615-3	2.825-3	4.817-3	2.025-6			
6.737-6	1.957	2.164-1	1.102-0	1.100-0	2.383-3	2.574-3	4.396-3	2.261-6			
8.326-6	1.958	2.165-1	1.102-0	1.100-0	2.154-3	2.327-3	3.970-3	2.522-6			
9.826-6	1.958	2.165-1	1.102-0	1.100-0	1.991-3	2.149-3	3.602-3	2.799-6			
1.101-5	1.958	2.165-1	1.102-0	1.100-0	1.898-3	2.050-3	3.499-3	3.135-6			
1.337-5	1.958	2.166-1	1.102-0	1.100-0	1.806-3	1.951-3	3.331-3	3.516-6			
1.668-5	1.958	2.166-1	1.102-0	1.100-0	1.738-3	1.877-3	3.205-3	3.802-6			
2.581-5	1.959	2.166-1	1.102-0	1.100-0	1.665-3	1.798-3	3.072-3	4.103-6			
3.768-5	1.959	2.166-1	1.102-0	1.100-0	1.590-3	1.717-3	2.934-3	4.415-6			
5.681-5	1.959	2.166-1	1.102-0	1.100-0	1.513-3	1.636-3	2.794-3	4.749-6			
2.075-5	1.959	2.166-1	1.101-0	1.100-0	1.463-3	1.590-3	2.701-3	5.167-6			
2.277-5	1.959	2.166-1	1.101-0	1.100-0	1.427-3	1.541-3	2.635-3	5.536-6			
2.417-5	1.959	2.166-1	1.101-0	1.100-0	1.397-3	1.509-3	2.581-3	5.841-6			
2.561-5	1.959	2.167-1	1.101-0	1.100-0	1.367-3	1.476-3	2.525-3	6.156-6			
2.710-5	1.959	2.167-1	1.101-0	1.100-0	1.335-3	1.442-3	2.467-3	6.480-6			
2.863-5	1.959	2.167-1	1.101-0	1.100-0	1.311-3	1.418-3	2.407-3	6.790-6			
3.017-5	1.959	2.167-1	1.101-0	1.100-0	1.286-3	1.389-3	2.377-3	6.982-6			
3.099-5	1.959	2.167-1	1.101-0	1.100-0	1.243-3	1.343-3	2.299-3	7.417-6			
3.345-5	1.959	2.167-1	1.101-0	1.100-0	1.191-3	1.286-3	2.203-3	7.956-6			
3.601-5	1.960	2.167-1	1.101-0	1.100-0	1.136-3	1.227-3	2.102-3	8.516-6			
3.866-5	1.960	2.167-1	1.101-0	1.100-0	1.090-3	1.177-3	2.018-3	8.986-6			
4.065-5	1.960	2.167-1	1.101-0	1.100-0	1.036-3	1.156-3	1.913-3	9.465-6			
4.234-5	1.960	2.167-1	1.101-0	1.100-0	1.060-3	1.145-3	1.954-3	9.700-6			
4.329-5	1.960	2.167-1	1.101-0	1.100-0	1.047-3	1.131-3	1.940-3	1.012-5			
4.618-5	1.960	2.167-1	1.101-0	1.100-0	1.033-3	1.116-3	1.915-3	1.055-5			
4.717-5	1.960	2.167-1	1.101-0	1.100-0	1.023-3	1.105-3	1.896-3	1.087-5			
4.913-5	1.960	2.167-1	1.101-0	1.100-0	1.009-3	1.089-3	1.871-3	1.132-5			
5.127-5	1.960	2.167-1	1.101-0	1.100-0	9.900-4	1.074-3	1.845-3	1.177-5			
5.332-5	1.960	2.167-1	1.101-0	1.100-0	9.755-4	1.059-3	1.811-3	1.235-5			
5.655-5	1.960	2.167-1	1.101-0	1.100-0	9.604-4	1.037-3	1.783-3	1.320-5			
5.763-5	1.960	2.167-1	1.101-0	1.100-0	9.449-4	1.021-3	1.755-3	1.392-5			
6.097-5	1.960	2.168-1	1.101-0	1.100-0	9.252-4	9.993-4	1.720-3	1.392-5			
6.325-5	1.960	2.168-1	1.101-0	1.100-0	9.091-4	9.819-4	1.691-3	1.442-5			
6.537-5	1.960	2.168-1	1.101-0	1.100-0	8.969-4	9.687-4	1.668-3	1.480-5			
6.744-5	1.960	2.168-1	1.101-0	1.100-0	8.834-4	9.506-4	1.645-3	1.521-5			
6.934-5	1.960	2.168-1	1.101-0	1.100-0	8.634-4	9.325-4	1.608-3	1.585-5			
7.155-5	1.960	2.168-1	1.101-0	1.100-0	8.461-4	9.138-4	1.576-3	1.638-5			
7.527-5	1.960	2.168-1	1.101-0	1.100-0	8.243-4	8.902-4	1.537-3	1.707-5			
7.730-5	1.960	2.168-1	1.101-0	1.100-0	8.109-4	8.758-4	1.513-3	1.748-5			
7.909-5	1.960	2.168-1	1.101-0	1.100-0	7.987-4	8.626-4	1.491-3	1.790-5			
8.167-5	1.960	2.168-1	1.101-0	1.100-0	7.861-4	8.495-4	1.468-3	1.840-5			
8.431-5	1.960	2.168-1	1.101-0	1.100-0	7.716-4	8.333-4	1.442-3	1.921-5			
8.934-5	1.960	2.168-1	1.101-0	1.100-0	7.563-4	8.168-4	1.415-3	1.995-5			

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EMDL 175 Group Neutron Constants

3-Li-7

ATOMIC WEIGHT 7.0160 ± 0		DENSITY 5.3993-1 GRAMS/CC									
ENERGY MEV	REF (CM)		CROSS SECTION (BARNs)							ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
9.108-5	1.950-1	2.168-1	1.101-0	1.100-0	7.439-4		8.034-4	1.392-3	2.055-5		
9.385-5	1.950-1	2.168-1	1.101-0	1.100-0	7.313-4		7.898-4	1.370-3	2.116-5		
9.668-5	1.950-1	2.168-1	1.101-0	1.100-0	7.217-4		7.784-4	1.353-3	2.163-5		
9.811-5	1.950-1	2.168-1	1.101-0	1.100-0	7.165-4		7.674-4	1.333-3	2.266-5		
1.025-4	1.950-1	2.168-1	1.101-0	1.100-0	6.983-4		7.541-4	1.311-3	2.356-5		
1.099-4	1.950-1	2.168-1	1.101-0	1.100-0	6.839-4		7.386-4	1.286-3	2.522-5		
1.176-4	1.950-1	2.168-1	1.101-0	1.100-0	6.690-4		7.225-4	1.261-3	2.694-5		
1.256-4	1.950-1	2.168-1	1.101-0	1.100-0	6.536-4		7.059-4	1.234-3	2.872-5		
1.338-4	1.950-1	2.168-1	1.101-0	1.100-0	6.393-4		6.905-4	1.209-3	3.037-5		
1.406-4	1.950-1	2.168-1	1.101-0	1.100-0	6.229-4		6.728-4	1.181-3	3.226-5		
1.511-4	1.951-1	2.169-1	1.101-0	1.100-0	5.944-4		6.528-4	1.149-3	3.440-5		
1.601-4	1.951-1	2.169-1	1.101-0	1.100-0	5.870-4		6.340-4	1.119-3	3.671-5		
1.694-4	1.951-1	2.169-1	1.101-0	1.100-0	5.692-4		6.147-4	1.089-3	3.898-5		
1.789-4	1.951-1	2.169-1	1.101-0	1.100-0	5.508-4		5.948-4	1.056-3	4.060-5		
1.887-4	1.951-1	2.169-1	1.101-0	1.100-0	5.319-4		5.745-4	1.024-3	4.278-5		
1.988-4	1.951-1	2.169-1	1.101-0	1.100-0	5.173-4		5.587-4	9.992-4	4.501-5		
2.091-4	1.951-1	2.169-1	1.100-0	1.100-0	4.909-4		5.392-4	9.587-4	4.733-5		
2.241-4	1.951-1	2.169-1	1.100-0	1.100-0	4.497-4		4.857-4	8.957-4	4.662-5		
2.367-4	1.951-1	2.169-1	1.100-0	1.100-0	4.123-4		4.453-4	8.385-4	4.797-5		
2.511-4	1.951-1	2.169-1	1.100-0	1.100-0	3.738-4		4.037-4	7.832-4	4.937-5		
2.704-4	1.951-1	2.169-1	1.100-0	1.100-0	3.567-4		3.852-4	7.647-4	5.107-5		
2.991-4	1.951-1	2.169-1	1.100-0	1.100-0	3.436-4		3.711-4	7.510-4	5.172-5		
3.258-4	1.951-1	2.169-1	1.100-0	1.100-0	3.291-4		3.555-4	7.359-4	5.288-5		
3.642-4	1.951-1	2.169-1	1.100-0	1.100-0	3.194-4		3.449-4	7.257-4	5.366-5		
4.067-4	1.951-1	2.169-1	1.100-0	1.100-0	3.041-4		3.284-4	7.097-4	5.488-5		
4.564-4	1.951-1	2.169-1	1.100-0	1.100-0	2.790-4		3.002-4	6.831-4	5.703-5		
5.122-4	1.951-1	2.169-1	1.100-0	1.100-0	2.625-4		2.835-4	6.768-4	5.925-5		
5.777-4	1.951-1	2.169-1	1.100-0	1.100-0	2.512-4		2.712-4	6.609-4	6.174-5		
6.558-4	1.951-1	2.169-1	1.100-0	1.100-0	2.317-4		2.503-4	6.477-4	6.502-5		
7.507-4	1.951-1	2.169-1	1.100-0	1.100-0	2.056-4		2.220-4	6.190-4	6.970-5		
8.697-4	1.951-1	2.169-1	1.100-0	1.100-0	1.769-4		1.910-4	5.701-4	7.308-5		
1.002-3	1.951-1	2.169-1	1.100-0	1.100-0	1.508-4		1.629-4	5.280-4	7.497-5		
1.202-3	1.951-1	2.169-1	1.100-0	1.100-0	1.423-4		1.537-4	5.070-4	7.524-5		
1.461-3	1.951-1	2.169-1	1.100-0	1.100-0	1.350-4		1.458-4	4.850-4	7.604-5		
1.790-3	1.951-1	2.169-1	1.100-0	1.100-0	1.271-4		1.373-4	4.597-4	7.610-5		
2.207-3	1.951-1	2.169-1	1.100-0	1.100-0	1.188-4		1.283-4	4.302-4	7.630-5		
2.727-3	1.951-1	2.169-1	1.100-0	1.100-0	1.105-4		1.193-4	4.085-4	7.606-5		
3.363-3	1.951-1	2.169-1	1.100-0	1.100-0	1.000-4		1.080-4	3.784-4	7.599-5		
4.124-3	1.951-1	2.169-1	1.100-0	1.100-0	8.355-5		9.024-5	3.461-4	7.561-5		
5.023-3	1.952-1	2.169-1	1.100-0	1.100-0	6.123-5		6.013-5	3.087-4	7.593-5		
6.025-3	1.957-1	2.175-1	1.097-0	1.097-0	4.465-5		4.822-5	2.869-4	7.786-5		
7.211-3	1.978-1	2.187-1	1.091-0	1.091-0	3.408-5		3.681-5	2.421-4	7.958-5		
8.691-3	1.999-1	2.200-1	1.085-0	1.085-0	2.754-5		2.975-5	2.257-4	8.206-5		
1.046-2	2.001-1	2.213-1	1.078-0	1.078-0	2.362-5		2.591-5	2.053-4	8.498-5		
1.267-2	2.015-1	2.228-1	1.071-0	1.071-0	1.927-5		2.081-5	1.771-4	8.734-5		
1.535-2	2.030-1	2.245-1	1.063-0	1.063-0	1.448-5		1.563-5	1.542-4	9.014-5		
1.864-2	2.049-1	2.266-1	1.053-0	1.053-0	1.028-5		1.110-5	1.149-4	9.147-5		
2.261-2	2.074-1	2.304-1	1.040-0	1.040-0				1.387-4	9.387-5		
2.732-2	2.103-1	2.352-1	1.026-0	1.026-0				1.633-4	9.733-5		
3.282-2	2.137-1	2.408-1	1.010-0	1.010-0				1.954-4	1.005-4		
3.931-2	2.204-1	2.506-1	9.789-1	9.789-1				2.338-4	2.338-4		
4.707-2	2.016-1	2.537-1	1.073-0	1.073-0				2.784-4	2.784-4		
5.620-2	1.449-1	2.218-1	1.089-0	1.089-0				3.027-4	3.027-4		
6.675-2	1.973-1	2.024-1	1.613-0	1.613-0				3.795-4	3.795-4		
7.917-2	2.334-1	2.533-1	9.245-0	9.245-0				5.475-4	5.475-4		
9.370-2	4.133-1	4.212-1	4.800-0	4.800-0				7.333-4	7.333-4		
1.104-1	8.63-0	7.957-0	2.494-0	2.494-0				8.248-4	8.248-4		
1.345-1	1.431-1	1.288-1	1.508-0	1.508-0				9.462-4	9.462-4		
1.677-1	1.716-1	1.530-1	1.258-0	1.258-0				1.078-4	1.078-4		
2.104-1	1.898-1	1.676-1	1.137-0	1.137-0				1.277-4	1.277-4		
2.623-1	1.949-1	1.703-1	1.107-0	1.107-0				1.556-4	1.556-4		
3.255-1	1.883-1	1.727-1	1.146-0	1.146-0				1.889-4	1.889-4		

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3-Li-7

ATOMIC WEIGHT 7.0160 ± 0		DENSITY 5.3993 ± 1 GRAMS/CC							
ENERGY	MFP (CM)	CROSS SECTION (BARNS)					ENERGY DEPOSITION (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527	1.678	1.616 ± 1	1.266 ± 0	0.218 ± 0		6.799 ± 2	6.799 ± 2	2.202 ± 0	1.949 ± 0
6.834	1.469	1.492 ± 1	1.468 ± 0	0.336 ± 0		1.328 ± 1	1.328 ± 1	2.564 ± 1	2.32 ± 1
1.025 ± 0	1.341	1.429 ± 1	1.610 ± 0	0.434 ± 0		1.760 ± 1	1.760 ± 1	2.913 ± 1	2.391 ± 1
1.176 ± 0	1.265	1.361 ± 1	1.706 ± 0	0.509 ± 0		1.977 ± 1	1.977 ± 1	3.266 ± 1	2.702 ± 1
1.338 ± 0	1.240	1.350 ± 1	1.791 ± 0	0.537 ± 0		2.032 ± 1	2.032 ± 1	3.571 ± 1	3.03 ± 1
1.511 ± 0	1.214	1.339 ± 1	1.777 ± 0	0.570 ± 0		2.064 ± 1	2.064 ± 1	3.937 ± 1	3.383 ± 1
1.694 ± 0	1.187	1.326 ± 1	1.818 ± 0	0.608 ± 0		2.098 ± 1	2.098 ± 1	4.285 ± 1	3.734 ± 1
1.887 ± 0	1.159	1.314 ± 1	1.861 ± 0	0.648 ± 0		2.134 ± 1	2.134 ± 1	4.652 ± 1	4.105 ± 1
2.091 ± 0	1.132	1.302 ± 1	1.907 ± 0	0.690 ± 0		2.172 ± 1	2.172 ± 1	5.038 ± 1	4.494 ± 1
2.305 ± 0	1.104	1.282 ± 1	1.955 ± 0	0.733 ± 0		2.212 ± 1	2.212 ± 1	5.431 ± 1	4.891 ± 1
2.530 ± 0	1.079	1.266 ± 1	2.000 ± 0	0.774 ± 0		2.252 ± 1	2.252 ± 1	5.817 ± 1	5.260 ± 1
2.741 ± 0	1.052	1.250 ± 1	2.051 ± 0	0.818 ± 0		2.332 ± 1	2.332 ± 1	6.204 ± 1	5.630 ± 1
3.011 ± 0	1.018	1.225 ± 1	2.120 ± 0	0.866 ± 0		2.541 ± 1	2.343 ± 1	6.645 ± 1	6.117 ± 1
3.267 ± 0	0.984 ± 2	1.201 ± 1	2.192 ± 0	0.915 ± 0		2.771 ± 1	2.391 ± 1	7.055 ± 1	6.536 ± 1
3.533 ± 0	0.951 ± 1	1.178 ± 1	2.268 ± 0	0.966 ± 0		3.011 ± 1	2.440 ± 1	7.449 ± 1	6.975 ± 1
3.811 ± 0	0.919 ± 1	1.148 ± 1	2.364 ± 0	0.1039 ± 0		3.245 ± 1	2.481 ± 1	7.906 ± 1	7.405 ± 1
4.069 ± 0	0.884 ± 1	1.104 ± 1	2.472 ± 0	0.150 ± 0		3.463 ± 1	2.463 ± 1	8.338 ± 1	7.891 ± 1
4.396 ± 0	0.854 ± 1	1.111 ± 1	2.566 ± 0	0.155 ± 0		3.712 ± 1	2.115 ± 1	8.866 ± 1	8.467 ± 1
4.704 ± 0	0.808 ± 1	1.173 ± 1	2.422 ± 0	0.2019 ± 0		4.032 ± 1	1.907 ± 1	9.450 ± 1	9.084 ± 1
4.991 ± 0	0.932 ± 1	1.311 ± 1	2.173 ± 0	0.730 ± 0		4.423 ± 1	1.783 ± 1	1.031 ± 1	0.915 ± 1
5.353 ± 0	1.077 ± 1	1.421 ± 1	2.053 ± 0	0.518 ± 0		4.857 ± 1	1.749 ± 1	1.130 ± 1	1.088 ± 0
5.658 ± 0	1.058 ± 1	1.402 ± 1	2.040 ± 0	0.510 ± 0		5.304 ± 1	1.715 ± 1	1.221 ± 1	1.181 ± 0
6.042 ± 0	1.058 ± 1	1.426 ± 1	2.020 ± 0	0.523 ± 0		5.623 ± 1	1.680 ± 1	1.316 ± 1	1.276 ± 0
6.357 ± 0	1.058 ± 1	1.472 ± 1	1.985 ± 0	0.382 ± 0		5.831 ± 1	1.631 ± 1	1.413 ± 1	1.373 ± 0
6.737 ± 0	1.125 ± 1	1.515 ± 1	1.918 ± 0	0.312 ± 0		6.062 ± 1	1.605 ± 1	1.526 ± 1	1.488 ± 0
7.156 ± 0	1.142 ± 1	1.551 ± 1	1.889 ± 0	0.265 ± 0		6.241 ± 1	1.565 ± 1	1.642 ± 1	1.603 ± 0
7.548 ± 0	1.156 ± 1	1.584 ± 1	1.864 ± 0	0.227 ± 0		6.391 ± 1	1.527 ± 1	1.746 ± 1	1.707 ± 0
7.910 ± 0	1.169 ± 1	1.617 ± 1	1.846 ± 0	0.197 ± 0		6.484 ± 1	1.488 ± 1	1.850 ± 1	1.811 ± 0
8.322 ± 0	1.179 ± 1	1.655 ± 1	1.830 ± 0	0.183 ± 0		6.471 ± 1	1.445 ± 1	1.849 ± 1	1.811 ± 0
8.787 ± 0	1.188 ± 1	1.698 ± 1	1.816 ± 0	0.170 ± 0		6.463 ± 1	1.402 ± 1	1.839 ± 1	2.002 ± 0
9.177 ± 0	1.209 ± 1	1.755 ± 1	1.785 ± 0	0.149 ± 0		6.356 ± 1	1.358 ± 1	2.123 ± 1	2.086 ± 0
9.665 ± 0	1.235 ± 1	1.829 ± 1	1.748 ± 0	0.126 ± 0		6.220 ± 1	1.311 ± 1	2.207 ± 1	2.171 ± 0
1.012 ± 0	1.263 ± 1	1.913 ± 1	1.708 ± 0	0.105 ± 0		6.023 ± 1	1.255 ± 1	2.269 ± 1	2.232 ± 0
1.058 ± 0	1.293 ± 1	2.006 ± 1	1.669 ± 0	0.088 ± 0		5.809 ± 1	1.220 ± 1	2.317 ± 1	2.280 ± 0
1.101 ± 0	1.320 ± 1	2.098 ± 1	1.635 ± 0	0.074 ± 0		5.605 ± 1	1.172 ± 1	2.364 ± 1	2.328 ± 0
1.155 ± 0	1.343 ± 1	2.201 ± 1	1.606 ± 0	0.065 ± 0		5.418 ± 1	1.123 ± 1	2.406 ± 1	2.372 ± 0
1.199 ± 0	1.367 ± 1	2.298 ± 1	1.578 ± 0	0.053 ± 0		5.258 ± 1	1.075 ± 1	2.453 ± 1	2.420 ± 0
1.250 ± 0	1.395 ± 1	2.415 ± 1	1.546 ± 0	0.036 ± 0		5.101 ± 1	1.022 ± 1	2.502 ± 1	2.470 ± 0
1.307 ± 0	1.432 ± 1	2.557 ± 1	1.507 ± 0	0.012 ± 0		4.949 ± 1	9.695 ± 1	2.545 ± 1	2.514 ± 0
1.354 ± 0	1.467 ± 1	2.687 ± 1	1.471 ± 0	9.878 ± 1		4.832 ± 1	9.297 ± 1	2.582 ± 1	2.551 ± 0
1.386 ± 0	1.492 ± 1	2.782 ± 1	1.446 ± 0	9.710 ± 1		4.750 ± 1	9.001 ± 1	2.607 ± 1	2.577 ± 0
1.413 ± 0	1.508 ± 1	2.854 ± 1	1.431 ± 0	9.612 ± 1		4.698 ± 1	8.729 ± 1	2.622 ± 1	2.593 ± 0
1.441 ± 0	1.522 ± 1	2.929 ± 1	1.417 ± 0	9.523 ± 1		4.650 ± 1	8.455 ± 1	2.634 ± 1	2.606 ± 0
1.458 ± 0	1.543 ± 1	3.014 ± 1	1.399 ± 0	9.396 ± 1		4.590 ± 1	8.083 ± 1	2.653 ± 1	2.625 ± 0
1.519 ± 0	1.569 ± 1	3.151 ± 1	1.375 ± 0	9.222 ± 1		4.528 ± 1	7.765 ± 1	2.685 ± 1	2.658 ± 0
1.575 ± 0	1.597 ± 1	3.310 ± 1	1.351 ± 0	9.041 ± 1		4.468 ± 1	7.478 ± 1	2.718 ± 1	2.692 ± 0
1.633 ± 0	1.624 ± 1	3.423 ± 1	1.328 ± 0	8.877 ± 1		4.406 ± 1	7.186 ± 1	2.743 ± 1	2.717 ± 0
1.692 ± 0	1.658 ± 1	3.522 ± 1	1.302 ± 0	8.714 ± 1		4.301 ± 1	6.851 ± 1	2.764 ± 1	2.739 ± 0
1.752 ± 0	1.702 ± 1	3.670 ± 1	1.267 ± 0	8.548 ± 1		4.127 ± 1	6.448 ± 1	2.797 ± 1	2.773 ± 0
1.813 ± 0	1.749 ± 1	3.832 ± 1	1.234 ± 0	8.389 ± 1		3.949 ± 1	6.037 ± 1	2.833 ± 1	2.810 ± 0
1.875 ± 0	1.823 ± 1	4.084 ± 1	1.184 ± 0	8.156 ± 1		3.680 ± 1	5.415 ± 1	2.871 ± 1	2.845 ± 0
2.000 ± 0									
RESONANCE INTEGRALS			2.341 ± 1	2.223 ± 1	1.751 ± 1	2.165 ± 0	5.694 ± 1		
MAXWELLIAN AVERAGES			1.127 ± 0	1.100 ± 0	2.689 ± 2	2.904 ± 2			
F E AVERAGES			1.337 ± 0	1.270 ± 0	1.009 ± 3	6.654 ± 2	3.253 ± 2		
FISSION AVERAGES			1.867 ± 0	1.671 ± 0	1.621 ± 7	1.950 ± 1	1.581 ± 1		
FISSION AVER			1.446 ± 0	9.715 ± 1		4.750 ± 1	8.935 ± 2		

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ATOMIC WEIGHT		7.0100+0		DENSITY				1.4374+0 GRAMS/CC	
ENERGY		MFP (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	LOCAL
1.307-9	5.378-5	5.378-5	5.378-5	1.506+5	1.100+0	1.506+5			1.650+0
5.227-9	1.097-4	1.097-4	1.097-4	7.38+4	1.100+0	7.38+4			1.650+0
2.091-8	1.655-4	1.655-4	1.655-4	4.892+4	1.100+0	4.892+4			1.650+0
3.267-8	2.016-4	2.016-4	2.016-4	4.016+4	1.100+0	4.016+4			1.650+0
4.704-8	2.572-4	2.572-4	2.572-4	3.148+4	1.100+0	3.148+4			1.650+0
6.322-8	3.298-4	3.298-4	3.298-4	2.455+4	1.100+0	2.455+4			1.650+0
1.307-7	4.027-4	4.027-4	4.027-4	2.011+4	1.100+0	2.011+4			1.650+0
1.882-7	4.783-4	4.783-4	4.783-4	1.693+4	1.100+0	1.693+4			1.650+0
2.561-7	5.578-4	5.578-4	5.578-4	1.452+4	1.100+0	1.452+4			1.650+0
3.345-7	6.352-4	6.352-4	6.352-4	1.275+4	1.100+0	1.275+4			1.650+0
4.234-7	7.008-4	7.008-4	7.008-4	1.155+4	1.100+0	1.155+4			1.650+0
5.123-7	8.149-4	8.149-4	8.149-4	9.938+3	1.100+0	9.938+3			1.650+0
7.527-7	1.001-3	1.001-3	1.001-3	8.092+3	1.100+0	8.092+3			1.650+0
1.176-6	1.173-3	1.173-3	1.173-3	6.906+3	1.100+0	6.906+3			1.650+0
1.511-6	1.369-3	1.369-3	1.369-3	5.915+3	1.100+0	5.915+3			1.650+0
2.091-6	1.587-3	1.587-3	1.587-3	5.102+3	1.100+0	5.102+3			1.650+0
2.741-6	1.807-3	1.807-3	1.807-3	4.481+3	1.100+0	4.481+3			1.650+0
3.533-6	2.065-3	2.065-3	2.065-3	3.922+3	1.100+0	3.922+3			1.650+0
4.704-6	2.313-3	2.313-3	2.313-3	3.501+3	1.100+0	3.501+3			1.649+0
5.658-6	2.527-3	2.527-3	2.527-3	3.205+3	1.100+0	3.205+3			1.649+0
6.737-6	2.794-3	2.794-3	2.794-3	2.898+3	1.100+0	2.898+3			1.649+0
8.322-6	3.050-3	3.050-3	3.050-3	2.655+3	1.100+0	2.655+3			1.649+0
9.620-6	3.276-3	3.276-3	3.276-3	2.472+3	1.100+0	2.472+3			1.649+0
1.101-5	3.525-3	3.525-3	3.525-3	2.297+3	1.100+0	2.297+3			1.649+0
1.307-5	3.831-3	3.831-3	3.831-3	2.114+3	1.100+0	2.114+3			1.649+0
1.468-5	4.067-3	4.068-3	4.068-3	1.991+3	1.100+0	1.991+3			1.649+0
1.581-5	4.226-3	4.226-3	4.226-3	1.916+3	1.100+0	1.916+3			1.649+0
1.758-5	4.398-3	4.399-3	4.399-3	1.841+3	1.100+0	1.841+3			1.649+0
1.882-5	4.590-3	4.590-3	4.590-3	1.764+3	1.100+0	1.764+3			1.649+0
2.075-5	4.788-3	4.788-3	4.788-3	1.691+3	1.100+0	1.691+3			1.649+0
2.277-5	4.953-3	4.959-3	4.959-3	1.633+3	1.100+0	1.632+3			1.649+0
2.417-5	5.110-3	5.110-3	5.110-3	1.585+3	1.100+0	1.584+3			1.649+0
2.561-5	5.275-3	5.276-3	5.276-3	1.535+3	1.100+0	1.534+3			1.649+0
2.710-5	5.457-3	5.458-3	5.458-3	1.484+3	1.100+0	1.483+3			1.649+0
2.862-5	5.605-3	5.606-3	5.606-3	1.445+3	1.100+0	1.444+3			1.649+0
2.940-5	5.747-3	5.748-3	5.748-3	1.409+3	1.100+0	1.408+3			1.649+0
3.099-5	5.916-3	5.916-3	5.916-3	1.369+3	1.100+0	1.368+3			1.649+0
3.345-5	6.129-3	6.130-3	6.130-3	1.321+3	1.100+0	1.320+3			1.649+0
3.601-5	6.368-3	6.368-3	6.368-3	1.272+3	1.100+0	1.271+3			1.649+0
3.866-5	6.586-3	6.587-3	6.587-3	1.230+3	1.100+0	1.228+3			1.649+0
4.049-5	6.746-3	6.749-3	6.749-3	1.200+3	1.100+0	1.199+3			1.649+0
4.234-5	6.869-3	6.870-3	6.870-3	1.179+3	1.100+0	1.178+3			1.649+0
4.329-5	7.041-3	7.042-3	7.042-3	1.150+3	1.100+0	1.149+3			1.648+0
4.619-5	7.225-3	7.225-3	7.225-3	1.121+3	1.100+0	1.120+3			1.648+0
4.717-5	7.372-3	7.373-3	7.373-3	1.098+3	1.100+0	1.097+3			1.648+0
4.918-5	7.567-3	7.567-3	7.567-3	1.070+3	1.100+0	1.069+3			1.648+0
5.123-5	7.708-3	7.709-3	7.709-3	1.051+3	1.100+0	1.050+3			1.648+0
5.332-5	7.887-3	7.888-3	7.888-3	1.027+3	1.100+0	1.026+3			1.648+0
5.654-5	8.039-3	8.040-3	8.040-3	1.007+3	1.100+0	1.006+3			1.648+0
5.763-5	8.200-3	8.201-3	8.201-3	9.875+2	1.100+0	9.855+2			1.648+0
6.097-5	8.399-3	8.399-3	8.399-3	9.642+2	1.100+0	9.631+2			1.648+0
6.325-5	8.552-3	8.563-3	8.563-3	9.458+2	1.100+0	9.447+2			1.648+0
6.557-5	8.690-3	8.691-3	8.691-3	9.319+2	1.100+0	9.308+2			1.648+0
6.674-5	8.871-3	8.872-3	8.872-3	9.128+2	1.100+0	9.117+2			1.648+0
7.034-5	9.034-3	9.035-3	9.035-3	8.954+2	1.100+0	8.953+2			1.648+0
7.155-5	9.160-3	9.161-3	9.161-3	8.840+2	1.100+0	8.829+2			1.648+0
7.527-5	9.325-3	9.326-3	9.326-3	8.684+2	1.100+0	8.673+2			1.648+0
7.780-5	9.428-3	9.429-3	9.429-3	8.589+2	1.100+0	8.578+2			1.648+0
7.908-5	9.548-3	9.549-3	9.549-3	8.481+2	1.100+0	8.470+2			1.648+0
8.167-5	9.755-3	9.756-3	9.756-3	8.302+2	1.100+0	8.291+2			1.648+0
8.431-5	1.001-2	1.001-2	1.001-2	8.068+2	1.100+0	8.067+2			1.648+0
8.634-5	1.033-2	1.033-2	1.033-2	7.840+2	1.100+0	7.829+2			1.648+0

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ATOMIC WEIGHT 7.0100+ 0				DENSITY 1.4374+ 0 GRAMS/CC						
ENERGY		MFP (CM)		CROSS SECTION (EARNs)				ENERGY DEPOSIT(MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.10E- 5	5	1.047- 2	1.047- 2	7.737- 2	1.100+ 0	7.726- 2			1.648+ 0	1.648+ 0
9.38E- 5	5	1.059- 2	1.059- 2	7.653- 2	1.100+ 0	7.642- 2			1.648+ 0	1.648+ 0
9.66E- 5	5	1.067- 2	1.067- 2	7.589- 2	1.100+ 0	7.578- 2			1.648+ 0	1.648+ 0
9.81E- 5	5	1.079- 2	1.079- 2	7.503+ 2	1.100+ 0	7.492- 2			1.648+ 0	1.648+ 0
1.02E- 4	4	1.105- 2	1.106- 2	7.326+ 2	1.100+ 0	7.315- 2			1.648+ 0	1.648+ 0
1.09E- 4	4	1.141- 2	1.141- 2	7.098- 2	1.100+ 0	7.087- 2			1.648+ 0	1.648+ 0
1.17E- 4	4	1.180- 2	1.180- 2	6.863+ 2	1.100+ 0	6.852- 2			1.647+ 0	1.647+ 0
1.25E- 4	4	1.223- 2	1.223- 2	6.620+ 2	1.100+ 0	6.609- 2			1.647+ 0	1.647+ 0
1.33E- 4	4	1.266- 2	1.267- 2	6.395+ 2	1.100+ 0	6.384- 2			1.647+ 0	1.647+ 0
1.40E- 4	4	1.320- 2	1.320- 2	6.137+ 2	1.100+ 0	6.126- 2			1.647+ 0	1.647+ 0
1.51E- 4	4	1.370- 2	1.370- 2	5.911+ 2	1.100+ 0	5.900- 2			1.647+ 0	1.647+ 0
1.60E- 4	4	1.409- 2	1.410- 2	5.746+ 2	1.100+ 0	5.735- 2			1.647+ 0	1.647+ 0
1.69E- 4	4	1.452- 2	1.452- 2	5.577+ 2	1.100+ 0	5.566- 2			1.647+ 0	1.647+ 0
1.78E- 4	4	1.499- 2	1.499- 2	5.403+ 2	1.100+ 0	5.392- 2			1.647+ 0	1.647+ 0
1.88E- 4	4	1.550- 2	1.551- 2	5.224+ 2	1.100+ 0	5.213- 2			1.647+ 0	1.647+ 0
1.98E- 4	4	1.596- 2	1.597- 2	5.072+ 2	1.100+ 0	5.061- 2			1.647+ 0	1.647+ 0
2.09E- 4	4	1.725- 2	1.725- 2	4.695+ 2	1.100+ 0	4.684- 2			1.646+ 0	1.646+ 0
2.74E- 4	4	1.960- 2	1.961- 2	4.131+ 2	1.100+ 0	4.120- 2			1.646+ 0	1.646+ 0
3.267E- 4	4	2.153- 2	2.154- 2	3.761+ 2	1.100+ 0	3.750- 2			1.646+ 0	1.646+ 0
3.811E- 4	4	2.408- 2	2.409- 2	3.363+ 2	1.100+ 0	3.352- 2			1.645+ 0	1.645+ 0
4.704E- 4	4	2.594+ 2	2.595+ 2	3.122+ 2	1.100+ 0	3.111+ 2			1.645+ 0	1.645+ 0
4.991E- 4	4	2.732+ 2	2.733+ 2	2.964+ 2	1.100+ 0	2.953+ 2			1.644+ 0	1.644+ 0
5.659E- 4	4	2.686+ 2	2.687+ 2	2.805+ 2	1.100+ 0	2.795+ 2			1.644+ 0	1.644+ 0
6.042E- 4	4	2.988+ 2	2.989+ 2	2.710+ 2	1.100+ 0	2.699+ 2			1.644+ 0	1.644+ 0
6.367E- 4	4	3.148+ 2	3.150+ 2	2.572+ 2	1.100+ 0	2.561+ 2			1.644+ 0	1.644+ 0
7.196E- 4	4	3.375+ 2	3.377+ 2	2.399+ 2	1.100+ 0	2.388+ 2			1.643+ 0	1.643+ 0
8.322E- 4	4	3.624+ 2	3.626+ 2	2.234+ 2	1.100+ 0	2.223+ 2			1.643+ 0	1.643+ 0
9.177E- 4	4	3.893+ 2	3.895+ 2	2.080+ 2	1.100+ 0	2.069+ 2			1.642+ 0	1.642+ 0
1.058E- 3	3	4.311+ 2	4.314+ 2	1.878+ 2	1.100+ 0	1.867+ 2			1.642+ 0	1.642+ 0
1.307E- 3	3	4.992+ 2	4.995+ 2	1.622+ 2	1.100+ 0	1.611+ 2			1.640+ 0	1.640+ 0
1.581E- 3	3	5.657+ 2	5.662+ 2	1.431+ 2	1.100+ 0	1.420+ 2			1.639+ 0	1.639+ 0
1.882E- 3	3	6.368+ 2	6.373+ 2	1.272+ 2	1.100+ 0	1.261+ 2			1.638+ 0	1.638+ 0
2.208E- 3	3	6.994+ 2	7.000+ 2	1.158+ 2	1.100+ 0	1.147+ 2			1.637+ 0	1.637+ 0
2.561E- 3	3	7.761+ 2	7.769+ 2	1.041+ 2	1.100+ 0	1.030+ 2			1.635+ 0	1.635+ 0
2.940E- 3	3	8.639+ 2	8.649+ 2	9.374+ 1	1.100+ 0	9.264+ 1			1.634+ 0	1.634+ 0
3.345E- 3	3	9.355+ 2	9.366+ 2	8.656+ 1	1.100+ 0	8.546+ 1			1.633+ 0	1.633+ 0
3.777E- 3	3	1.021+ 1	1.022+ 1	7.931+ 1	1.100+ 0	7.821+ 1			1.631+ 0	1.631+ 0
4.234E- 3	3	1.193+ 1	1.195+ 1	6.788+ 1	1.100+ 0	6.678+ 1			1.628+ 0	1.628+ 0
5.763E- 3	3	1.450+ 1	1.453+ 1	5.584+ 1	1.100+ 0	5.474+ 1			1.624+ 0	1.624+ 0
7.527E- 3	3	1.802+ 1	1.805+ 1	4.493+ 1	1.100+ 0	4.383+ 1			1.618+ 0	1.618+ 0
1.02E- 2	2	2.282+ 1	2.289+ 1	3.548+ 1	1.100+ 0	3.438+ 1			1.611+ 0	1.611+ 0
1.511E- 2	2	2.995+ 1	3.008+ 1	2.703+ 1	1.100+ 0	2.593+ 1			1.600+ 0	1.600+ 0
2.091E- 2	2	3.675+ 1	3.693+ 1	2.203+ 1	1.100+ 0	2.093+ 1			1.590+ 0	1.590+ 0
2.64E- 2	2	4.419+ 1	4.444+ 1	1.833+ 1	1.100+ 0	1.723+ 1			1.579+ 0	1.579+ 0
3.267E- 2	2	5.197+ 1	5.232+ 1	1.558+ 1	1.100+ 0	1.448+ 1			1.568+ 0	1.568+ 0
3.953E- 2	2	6.083+ 1	6.131+ 1	1.331+ 1	1.100+ 0	1.221+ 1			1.554+ 0	1.554+ 0
4.704E- 2	2	7.163+ 1	7.230+ 1	1.131+ 1	1.100+ 0	1.021+ 1			1.538+ 0	1.538+ 0
5.761E- 2	2	8.584+ 1	8.665+ 1	9.456+ 0	1.100+ 0	8.356+ 0			1.516+ 0	1.516+ 0
7.002E- 2	2	9.987+ 1	1.013+ 0	8.108+ 0	1.100+ 0	7.008+ 0			1.495+ 0	1.495+ 0
8.322E- 2	2	1.163+ 0	1.184+ 0	6.965+ 0	1.100+ 0	5.865+ 0			1.469+ 0	1.469+ 0
9.891E- 2	2	1.366+ 0	1.398+ 0	5.927+ 0	1.100+ 0	4.827+ 0			1.441+ 0	1.441+ 0
1.107E- 1	1	1.716+ 0	1.803+ 0	4.718+ 0	1.100+ 0	3.618+ 0			1.391+ 0	1.391+ 0
1.820E- 1	1	1.982+ 0	2.185+ 0	4.086+ 0	1.100+ 0	2.986+ 0			1.357+ 0	1.357+ 0
2.07E- 1	1	2.080+ 0	2.358+ 0	3.893+ 0	1.100+ 0	2.793+ 0			1.356+ 0	1.356+ 0
2.417E- 1	1	2.054+ 0	2.214+ 0	3.943+ 0	1.100+ 0	2.843+ 0			1.391+ 0	1.391+ 0
2.710E- 1	1	1.977+ 0	1.982+ 0	4.095+ 0	1.100+ 0	2.995+ 0			1.434+ 0	1.434+ 0
2.940E- 1	1	1.910+ 0	1.861+ 0	4.240+ 0	1.100+ 0	3.140+ 0			1.477+ 0	1.477+ 0
3.345E- 1	1	1.860+ 0	1.809+ 0	4.354+ 0	1.100+ 0	3.254+ 0			1.524+ 0	1.524+ 0
3.777E- 1	1	1.921+ 0	1.862+ 0	4.216+ 0	1.100+ 0	3.116+ 0			1.545+ 0	1.545+ 0
4.234E- 1	1	2.328+ 0	2.235+ 0	4.478+ 0	1.100+ 0	2.378+ 0			1.486+ 0	1.486+ 0
5.173E- 1	1	3.110+ 0	2.832+ 0	2.640+ 0	1.086+ 0	1.519+ 0			1.360+ 0	1.360+ 0
6.32E- 1	1	5.772+ 0	3.606+ 0	2.147+ 0	1.061+ 0	1.085+ 0			1.275+ 0	1.275+ 0

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ATOMIC WEIGHT		7.0100 ± 0		DENSITY 1.4374 ± 0 GRAMS/CC							
ENERGY	MEV	HFP (CM)		CROSS SECTION (BARNs)						ENERGY DEPOSIT (MEV)	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
7.527-1	4.119+0	4.030+0	1.966+0	1.064+0	9.025-1				1.245+0	1.245+0	
9.834-1	4.332+0	4.374+0	1.669+0	1.091+0	7.789-1				1.218+0	1.218+0	
1.025+0	4.443+0	4.642+0	1.823+0	1.130+0	6.926-1				1.204+0	1.204+0	
1.176+0	4.513+0	4.764+0	1.795+0	1.177+0	6.174-1				1.190+0	1.190+0	
1.338+0	4.589+0	4.905+0	1.765+0	1.227+0	5.318-1				1.163+0	1.161+0	
1.511+0	4.605+0	4.998+0	1.758+0	1.281+0	4.778-1				1.177+0	1.177+0	
1.694+0	4.570+0	5.020+0	1.772+0	1.337+0	4.350-1				1.233+0	1.233+0	
1.887+0	4.526+0	5.050+0	1.789+0	1.397+0	3.927-1				1.287+0	1.287+0	
2.091+0	4.426+0	5.000+0	1.829+0	1.459+0	3.700-1				1.365+0	1.365+0	
2.305+0	4.316+0	4.947+0	1.876+0	1.525+0	3.509-1				1.447+0	1.447+0	
2.530+0	4.212+0	4.893+0	1.922+0	1.591+0	3.318-1				1.521+0	1.521+0	
2.741+0	4.103+0	4.830+0	1.974+0	1.663+0	3.109-1				1.596+0	1.596+0	
3.011+0	3.957+0	4.732+0	2.046+0	1.742+0	3.046-1				1.716+0	1.716+0	
3.267+0	3.796+0	4.609+0	2.133+0	1.820+0	3.133-1				1.866+0	1.866+0	
3.533+0	3.641+0	4.494+0	2.224+0	1.902+0	3.224-1				2.013+0	2.013+0	
3.811+0	3.501+0	4.397+0	2.313+0	1.981+0	3.318-1				2.153+0	2.153+0	
4.069+0	3.375+0	4.321+0	2.399+0	2.046+0	3.527-1				2.405+0	2.405+0	
4.396+0	3.253+0	4.223+0	2.489+0	2.110+0	3.792-1				2.703+0	2.703+0	
4.704+0	3.147+0	4.158+0	2.573+0	2.170+0	4.040-1				2.968+0	2.968+0	
4.991+0	3.139+0	4.222+0	2.579+0	2.140+0	4.396-1				3.402+0	3.402+0	
5.353+0	3.230+0	4.353+0	2.507+0	2.023+0	4.840-1				4.020+0	4.020+0	
5.858+0	3.329+0	4.498+0	2.432+0	1.902+0	5.298-1				4.706+0	4.706+0	
6.424+0	3.465+0	4.712+0	2.337+0	1.778+0	5.589-1				5.296+0	5.296+0	
6.367+0	3.630+0	4.960+0	2.231+0	1.657+0	5.741-1				5.796+0	5.796+0	
6.737+0	3.826+0	5.249+0	2.116+0	1.525+0	5.914-1				6.410+0	6.410+0	
7.156+0	3.927+0	5.435+0	2.062+0	1.453+0	6.091-1				6.930+0	6.930+0	
7.547+0	3.992+0	5.578+0	2.023+0	1.403+0	6.256-1				7.386+0	7.386+0	
7.930+0	4.068+0	5.729+0	1.991+0	1.351+0	6.394-1				7.843+0	7.843+0	
8.322+0	4.173+0	5.933+0	1.941+0	1.293+0	6.479-1				8.314+0	8.314+0	
8.787+0	4.281+0	6.154+0	1.892+0	1.236+0	6.559-1				8.794+0	8.794+0	
9.177+0	4.398+0	6.363+0	1.841+0	1.177+0	6.641-1				9.314+0	9.314+0	
9.665+0	4.527+0	6.629+0	1.789+0	1.116+0	6.728-1				9.898+0	9.898+0	
1.012+1	4.583+0	6.775+0	1.767+0	1.099+0	6.776-1				1.027+1	1.027+1	
1.058+1	4.609+0	6.921+0	1.757+0	1.078+0	6.810-1				1.056+1	1.056+1	
1.101+1	4.637+0	7.059+0	1.746+0	1.062+0	6.846-1				1.087+1	1.087+1	
1.155+1	4.667+0	7.233+0	1.735+0	1.047+0	6.883-1				1.120+1	1.120+1	
1.199+1	4.696+0	7.382+0	1.724+0	1.033+0	6.918-1				1.152+1	1.152+1	
1.250+1	4.729+0	7.555+0	1.712+0	1.016+0	6.959-1				1.188+1	1.188+1	
1.307+1	4.762+0	7.750+0	1.701+0	1.001+0	6.998-1				1.223+1	1.223+1	
1.354+1	4.787+0	7.916+0	1.692+0	9.889-1	7.028-1				1.251+1	1.251+1	
1.386+1	4.806+0	8.030+0	1.685+0	9.900-1	7.050-1				1.271+1	1.271+1	
1.413+1	4.823+0	8.128+0	1.679+0	9.719-1	7.070-1				1.290+1	1.290+1	
1.441+1	4.841+0	8.227+0	1.673+0	9.636-1	7.091-1				1.310+1	1.310+1	
1.468+1	4.867+0	8.328+0	1.664+0	9.520-1	7.120-1				1.338+1	1.338+1	
1.519+1	4.902+0	8.511+0	1.652+0	9.359-1	7.160-1				1.379+1	1.379+1	
1.575+1	4.941+0	8.719+0	1.639+0	9.187-1	7.203-1				1.423+1	1.423+1	
1.633+1	4.981+0	8.826+0	1.626+0	9.011-1	7.247-1				1.469+1	1.469+1	
1.692+1	5.022+0	8.959+0	1.612+0	8.833-1	7.292-1				1.518+1	1.518+1	
1.752+1	5.065+0	9.089+0	1.599+0	8.651-1	7.337-1				1.569+1	1.569+1	
1.813+1	5.109+0	9.218+0	1.585+0	8.467-1	7.383-1				1.623+1	1.623+1	
1.875+1	5.178+0	9.336+0	1.564+0	8.187-1	7.453-1				1.708+1	1.708+1	
2.000+1											
RESONANCE INTEGRALS			2.196+4	2.019+1	2.194+4						
MAXWELLIAN AVERAGES			4.469+4	1.100+0	4.468+4						
1/E AVERAGES			1.254+3	1.153+0	1.253+3						
FISSION AVERAGES			2.430+0	1.396+0	1.034+0						
FUSION AVERAGES			1.684+0	9.781-1	7.055-1						

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 9.0122 ± 0		DENSITY 1.8480 ± 0 GRAMS/CC									
ENERGY		MFP (CM)		CROSS SECTION (BARNs)						ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REHA:NDER	GAM-PROD.		TOTAL	LOCAL
1.307-9	1.343-0	1.451-7	6.028-0	6.000-0	2.788-2	4.461-2	3.154-2	1.151-5			
5.227-9	1.347-0	1.455-0	6.014-0	6.000-0	1.395-2	2.232-2	1.582-2	5.778-6			
2.031-8	1.349-0	1.458-0	6.009-0	6.000-0	9.897-3	1.488-2	1.955-2	3.056-6			
3.267-8	1.348-0	1.456-0	6.008-0	6.000-0	7.606-3	1.211-2	0.635-3	3.159-6			
4.704-8	1.348-0	1.457-0	6.006-0	6.000-0	5.984-3	9.574-3	6.455-3	2.492-6			
8.322-8	1.349-0	1.457-0	6.005-0	6.000-0	1.652-3	7.444-3	5.284-3	1.948-6			
1.307-7	1.349-0	1.457-0	6.004-0	6.000-0	3.802-3	6.083-3	4.319-3	1.605-6			
1.882-7	1.349-0	1.458-0	6.003-0	6.000-0	3.217-3	5.147-3	3.655-3	1.374-6			
2.561-7	1.349-0	1.458-0	6.003-0	6.000-0	2.788-3	4.450-3	3.167-3	1.210-6			
5.345-7	1.349-0	1.458-0	6.002-0	6.000-0	2.460-3	3.936-3	2.795-3	1.089-6			
4.234-7	1.349-0	1.458-0	6.002-0	6.000-0	2.212-3	3.540-3	2.514-3	1.002-6			
5.123-7	1.345-0	1.458-0	6.002-0	6.000-0	1.909-3	3.055-3	2.170-3	9.065-7			
7.527-7	1.349-0	1.458-0	6.002-0	6.000-0	1.550-3	2.480-3	1.762-3	8.177-7			
1.176-6	1.349-0	1.458-0	6.001-0	6.000-0	1.308-3	2.092-3	1.486-3	7.858-7			
1.511-6	1.349-0	1.458-0	6.001-0	6.000-0	1.131-3	1.879-3	1.285-3	7.954-7			
2.091-6	1.349-0	1.458-0	6.001-0	6.000-0	9.753-4	1.560-3	1.109-3	8.423-7			
2.741-6	1.349-0	1.458-0	6.001-0	6.000-0	8.556-4	1.359-3	9.729-4	9.233-7			
3.533-6	1.349-0	1.458-0	6.001-0	6.000-0	7.471-4	1.195-3	8.498-4	1.056-6			
4.704-6	1.350-0	1.458-0	6.001-0	6.000-0	6.852-4	1.064-3	7.570-4	1.214-6			
5.658-6	1.350-0	1.458-0	6.001-0	6.000-0	6.080-4	9.729-4	6.922-4	1.375-6			
6.737-6	1.350-0	1.458-0	6.001-0	6.000-0	5.520-4	8.832-4	6.287-4	1.593-6			
8.322-6	1.350-0	1.458-0	6.001-0	6.000-0	5.052-4	8.083-4	5.758-4	1.834-6			
9.620-6	1.350-0	1.458-0	6.001-0	6.000-0	4.711-4	7.537-4	5.373-4	2.064-6			
1.101-5	1.350-0	1.458-0	6.000-0	6.000-0	4.362-4	6.979-4	4.980-4	2.361-6			
1.307-5	1.350-0	1.458-0	6.000-0	6.000-0	4.061-4	6.497-4	4.641-4	2.681-6			
1.468-5	1.350-0	1.458-0	6.000-0	6.000-0	3.874-4	6.198-4	4.430-4	2.922-6			
1.581-5	1.350-0	1.458-0	6.000-0	6.000-0	3.702-4	5.923-4	4.238-4	3.177-6			
1.758-5	1.350-0	1.458-0	6.000-0	6.000-0	3.544-4	5.671-4	4.061-4	3.442-6			
1.882-5	1.350-0	1.458-0	6.000-0	6.000-0	3.400-4	5.441-4	3.801-4	3.723-6			
2.075-5	1.350-0	1.458-0	6.000-0	6.000-0	3.242-4	5.188-4	3.725-4	4.075-6			
2.277-5	1.350-0	1.458-0	6.000-0	6.000-0	3.122-4	4.995-4	3.591-4	4.380-6			
2.417-5	1.350-0	1.458-0	6.000-0	6.000-0	3.031-4	4.849-4	3.490-4	4.633-6			
2.561-5	1.350-0	1.458-0	6.000-0	6.000-0	2.945-4	4.713-4	3.395-4	4.895-6			
2.710-5	1.350-0	1.458-0	6.000-0	6.000-0	2.865-4	4.584-4	3.306-4	5.164-6			
2.862-5	1.350-0	1.458-0	6.000-0	6.000-0	2.807-4	4.491-4	3.243-4	5.370-6			
2.940-5	1.350-0	1.458-0	6.000-0	6.000-0	2.751-4	4.402-4	3.182-4	5.582-6			
3.099-5	1.350-0	1.458-0	6.000-0	6.000-0	2.664-4	4.262-4	3.086-4	5.945-6			
3.345-5	1.350-0	1.458-0	6.000-0	6.000-0	2.566-4	4.165-4	2.979-4	6.305-6			
3.601-5	1.350-0	1.458-0	6.000-0	6.000-0	2.475-4	3.960-4	2.881-4	6.653-6			
3.866-5	1.350-0	1.458-0	6.000-0	6.000-0	2.403-4	3.845-4	2.803-4	7.065-6			
4.048-5	1.350-0	1.458-0	6.000-0	6.000-0	2.350-4	3.760-4	2.746-4	7.586-6			
4.234-5	1.350-0	1.458-0	6.000-0	6.000-0	2.310-4	3.696-4	2.703-4	7.848-6			
4.329-5	1.350-0	1.458-0	6.000-0	6.000-0	2.261-4	3.617-4	2.651-4	8.194-6			
4.619-5	1.350-0	1.458-0	6.000-0	6.000-0	2.212-4	3.539-4	2.599-4	8.544-6			
4.717-5	1.350-0	1.458-0	6.000-0	6.000-0	2.178-4	3.485-4	2.563-4	8.814-6			
4.918-5	1.350-0	1.458-0	6.000-0	6.000-0	2.134-4	3.414-4	2.516-4	9.179-6			
5.123-5	1.350-0	1.458-0	6.000-0	6.000-0	2.091-4	3.345-4	2.471-4	9.552-6			
5.332-5	1.350-0	1.458-0	6.000-0	6.000-0	2.040-4	3.264-4	2.418-4	1.003-5			
5.654-5	1.350-0	1.458-0	6.000-0	6.000-0	2.001-4	3.201-4	2.377-4	1.042-5			
5.763-5	1.350-0	1.458-0	6.000-0	6.000-0	1.963-4	3.142-4	2.339-4	1.082-5			
6.097-5	1.350-0	1.458-0	6.000-0	6.000-0	1.918-4	3.069-4	2.293-4	1.133-5			
6.325-5	1.350-0	1.458-0	6.000-0	6.000-0	1.884-4	3.014-4	2.258-4	1.174-5			
6.557-5	1.350-0	1.458-0	6.000-0	6.000-0	1.850-4	2.973-4	2.232-4	1.206-5			
6.674-5	1.350-0	1.458-0	6.000-0	6.000-0	1.826-4	2.922-4	2.200-4	1.249-5			
7.034-5	1.350-0	1.458-0	6.000-0	6.000-0	1.795-4	2.872-4	2.168-4	1.282-5			
7.155-5	1.350-0	1.458-0	6.000-0	6.000-0	1.764-4	2.823-4	2.139-4	1.337-5			
7.527-5	1.350-0	1.458-0	6.000-0	6.000-0	1.728-4	2.765-4	2.103-4	1.393-5			
7.780-5	1.350-0	1.458-0	6.000-0	6.000-0	1.706-4	2.730-4	2.081-4	1.427-5			
7.908-5	1.350-0	1.458-0	6.000-0	6.000-0	1.686-4	2.698-4	2.062-4	1.462-5			
8.167-5	1.350-0	1.458-0	6.000-0	6.000-0	1.660-4	2.655-4	2.037-4	1.510-5			
8.431-5	1.350-0	1.458-0	6.000-0	6.000-0	1.632-4	2.603-4	2.008-4	1.570-5			
8.834-5	1.350-0	1.458-0	6.000-0	6.000-0	1.586-4	2.554-4	1.977-4	1.631-5			

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ATOMIC WEIGHT		9.01224 0		DENSITY 1.9480+0 GRAMS/CC						
ENERGY		TOTAL (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD	TOTAL	LOCAL
9.10E-5	1.350+0	1.45E+0	6.000+0	6.000+0	1.572-4	2.515-4	1.954+0	1.681-5		
9.38E-5	1.350+0	1.45E+0	6.000+0	6.000+0	1.549-4	2.478-4	1.933+0	1.731-5		
9.66E-5	1.350+0	1.45E+0	6.000+0	6.000+0	1.532-4	2.451-4	1.917+0	1.770-5		
9.91E-5	1.350+0	1.45E+0	6.000+0	6.000+0	1.513-4	2.420-4	1.901+0	1.822-5		
1.025E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.494-4	2.394-4	1.893+0	1.929-5		
1.099E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.478-4	2.365-4	1.886+0	2.066-5		
1.176E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.459-4	2.335-4	1.879+0	2.200-5		
1.256E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.443-4	2.309-4	1.875+0	2.354-5		
1.33E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.429-4	2.286-4	1.873+0	2.490-5		
1.406E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.413-4	2.260-4	1.870+0	2.646-5		
1.511E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.397-4	2.235-4	1.870+0	2.823-5		
1.631E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.383-4	2.212-4	1.870+0	2.988-5		
1.694E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.368-4	2.189-4	1.871+0	3.159-5		
1.789E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.356-4	2.169-4	1.874+0	3.334-5		
1.887E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.343-4	2.149-4	1.877+0	3.513-5		
1.988E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.330-4	2.128-4	1.881+0	3.698-5		
2.091E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.291-4	2.066-4	1.905+0	4.380-5		
2.174E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.241-4	1.986-4	1.955+0	5.444-5		
2.267E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.205-4	1.929-4	2.011+0	6.412-5		
3.611E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.168-4	1.866-4	2.088+0	7.713-5		
4.704E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.139-4	1.823-4	2.173+0	8.782-5		
4.991E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.121-4	1.794-4	2.238+0	9.654-5		
5.658E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.103-4	1.764-4	2.312+0	1.080-4		
6.042E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.090-4	1.744-4	2.362+0	1.124-4		
6.367E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.074-4	1.718-4	2.445+0	1.225-4		
7.156E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.048-4	1.677-4	2.593+0	1.402-4		
8.322E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.026-4	1.641-4	2.750+0	1.585-4		
9.177E-4	1.350+0	1.45E+0	6.000+0	6.000+0	1.005-4	1.608-4	2.931+0	1.789-4		
1.058E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000-4	1.600-4	3.278+0	2.142-4		
1.307E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000-4	1.600-4	3.751+0	2.615-4		
1.581E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000-4	1.600-4	4.272+0	3.135-4		
1.882E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.600+0	4.839+0	3.703-4		
2.208E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.600+0	5.455+0	4.318-4		
2.551E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.600+0	6.117+0	4.981-4		
2.940E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.601+0	6.827+0	5.691-4		
3.345E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.601+0	7.584+0	6.448-4		
3.777E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.601+0	8.389+0	7.252-4		
4.234E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.601+0	9.119+0	8.050-4		
5.763E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.601+0	1.317+0	1.203-3		
7.527E-3	1.350+0	1.45E+0	6.000+0	6.000+0	1.000+0	1.602-4	1.723+0	1.609-3		
1.025E-2	1.353+0	1.462+0	5.987+0	5.986+0	1.000+0	1.602-4	2.409+0	2.295-3		
1.511E-2	1.359+0	1.468+0	5.960+0	5.959+0	1.000+0	1.603-4	3.374+0	3.260-3		
2.091E-2	1.365+0	1.476+0	5.931+0	5.931+0	1.000+0	1.604-4	4.403+0	4.289-3		
2.846E-2	1.372+0	1.483+0	5.901+0	5.901+0	1.000+0	1.605-4	5.468+0	5.353-3		
3.267E-2	1.380+0	1.491+0	5.869+0	5.869+0	1.000+0	1.607-4	6.552+0	6.536-3		
3.953E-2	1.388+0	1.500+0	5.833+0	5.833+0	1.000+0	1.608-4	7.794+0	7.837-3		
4.704E-2	1.401+0	1.514+0	5.779+0	5.779+0	1.000+0	1.610-4	9.191+0	9.473-3		
5.761E-2	1.424+0	1.538+0	5.689+0	5.688+0	1.000+0	1.612-4	1.167+0	1.155-2		
7.002E-2	1.450+0	1.567+0	5.586+0	5.586+0	1.000+0	1.614-4	1.399+0	1.387-2		
8.322E-2	1.480+0	1.600+0	5.471+0	5.471+0	1.000+0	1.617-4	1.661+0	1.648-2		
9.891E-2	1.529+0	1.653+0	5.295+0	5.295+0	1.000+0	1.621+0	2.089+0	2.076-2		
1.307E-1	1.618+0	1.749+0	5.035+0	5.035+0	1.000+0	1.626+0	2.826+0	2.825-2		
1.820E-1	1.710+0	1.848+0	4.736+0	4.736+0	1.000+0	1.636+0	3.538+0	3.524-2		
2.075E-1	1.789+0	1.933+0	4.526+0	4.526+0	1.000+0	1.641+0	4.074+0	4.058-2		
2.417E-1	1.870+0	2.033+0	4.331+0	4.331+0	1.000+0	1.647+0	4.588+0	4.572-2		
2.710E-1	1.911+0	2.110+0	4.237+0	4.237+0	1.000+0	1.652+0	4.994+0	4.976-2		
2.940E-1	1.961+0	2.192+0	4.129+0	4.129+0	1.000+0	1.658+0	5.515+0	5.499-2		
3.345E-1	2.031+0	2.277+0	3.987+0	3.986+0	1.000+0	1.666+0	6.247+0	6.229-2		
3.777E-1	2.112+0	2.367+0	3.835+0	3.835+0	1.000+0	1.674+0	7.025+0	7.007-2		
4.234E-1	2.244+0	2.515+0	3.609+0	3.609+0	1.000+0	1.686+0	8.197+0	8.178-2		
5.123E-1	1.757+0	2.013+0	4.506+0	4.506+0	1.000+0	1.705+0	1.026+0	1.025-1		
6.325E-1	2.102+0	2.377+0	3.853+0	3.853+0	1.163-4	1.727+0	1.180+0	1.178-1		

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ATOMIC WEIGHT		9.0122 0		DENSITY 1.8480 0 GRAMS/CC							
ENERGY		MFY CM		CROSS SECTION (BARNs)					ENERGY DEPOSIT(MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDR	GAM-PROD.	TOTAL	LOCAL	
7.527	0	2.137	0	2.562	0	3.843	0	1.093	3	1.751	1.315
8.934	1	2.358	0	3.023	0	3.434	0	2.787	3	1.776	1.429
1.074	1	2.561	0	3.446	0	3.137	0	4.611	3	1.802	1.632
1.176	0	2.666	0	3.974	0	2.730	0	6.711	3	1.831	1.863
1.538	0	3.527	0	4.727	0	2.296	0	1.270	2	1.862	1.129
1.511	2	4.097	0	5.469	0	1.977	0	2.202	2	1.895	2.468
1.634	0	4.655	0	6.098	0	1.751	0	1.718	2	1.929	2.917
1.887	0	4.691	0	5.800	0	1.726	0	1.680	2	4.497	2
2.091	2	4.185	0	4.899	0	1.835	0	1.855	2	8.532	4
2.305	0	3.684	0	3.998	0	2.259	0	2.160	2	8.515	3
2.530	0	2.464	0	2.740	0	3.287	0	3.146	2	1.967	2
2.741	0	2.236	0	3.969	0	3.619	0	3.271	1	2.045	4
3.011	0	2.718	0	4.477	0	2.979	0	2.497	1	4.486	2
3.267	0	3.151	0	4.993	0	2.570	0	2.024	2	4.499	1
3.533	0	3.571	0	5.279	0	2.267	0	1.685	2	4.906	1
3.811	0	3.962	0	5.619	0	2.044	0	1.443	2	5.142	1
4.061	0	4.239	0	5.632	0	1.750	0	1.300	2	5.294	1
4.396	0	4.217	0	6.023	0	1.521	0	1.300	2	5.422	1
4.704	0	4.522	0	5.380	0	1.082	0	1.262	2	5.525	1
4.951	0	4.370	0	6.718	0	1.053	0	1.229	2	5.615	1
5.253	0	4.409	0	6.697	0	1.637	0	1.208	2	5.706	1
5.656	0	4.451	0	7.053	0	1.919	0	1.191	2	5.755	1
6.042	0	4.471	0	7.238	0	1.811	0	1.184	2	5.805	1
6.357	0	4.500	0	7.440	0	1.800	0	1.177	2	5.805	1
6.707	0	4.559	0	7.724	0	1.760	0	1.163	2	5.774	1
7.151	0	4.595	0	7.974	0	1.762	0	1.155	2	5.748	1
7.546	0	4.626	0	8.036	0	1.754	0	1.149	2	5.741	1
7.912	0	4.641	0	8.121	0	1.745	0	1.143	2	5.738	1
8.322	0	4.673	0	8.237	0	1.733	0	1.137	2	5.712	1
8.767	0	4.707	0	8.328	0	1.720	0	1.129	2	5.694	1
9.177	0	4.766	0	8.522	0	1.706	0	1.107	2	5.676	1
9.665	0	4.859	0	8.672	0	1.687	0	1.091	2	5.656	1
1.012	1	4.945	0	8.846	0	1.677	0	1.079	2	5.629	1
1.059	1	5.030	0	9.018	0	1.660	0	1.070	2	5.608	1
1.101	1	5.104	0	9.173	0	1.645	0	1.062	2	5.584	1
1.155	1	5.126	0	9.314	0	1.630	0	1.050	2	5.532	1
1.199	1	5.150	0	9.422	0	1.615	0	1.035	2	5.477	1
1.250	1	5.187	0	9.536	0	1.561	0	9.947	1	5.405	1
1.307	1	5.290	0	9.704	0	1.534	0	9.947	1	5.328	1
1.354	1	5.371	0	9.916	0	1.508	0	9.459	1	5.266	1
1.396	1	5.430	0	1.010	0	1.491	0	5.387	1	5.221	1
1.413	1	5.479	0	1.018	0	1.478	0	5.353	1	5.182	1
1.471	1	5.533	0	1.024	0	1.463	0	5.061	1	5.144	1
1.468	1	5.633	0	1.030	0	1.438	0	5.752	1	5.099	1
1.519	1	5.749	0	1.030	0	1.409	0	5.392	1	5.015	1
1.575	1	5.650	0	1.014	0	1.429	0	5.018	1	4.938	1
1.637	1	5.611	0	1.007	0	1.443	0	5.681	1	4.859	1
1.692	1	5.728	0	1.000	0	1.414	0	5.652	1	4.778	1
1.752	1	5.844	0	1.078	0	1.360	0	5.612	1	4.695	1
1.813	1	5.949	0	1.099	0	1.362	0	5.578	1	4.612	1
1.875	1	6.056	0	1.121	0	1.340	0	5.531	1	4.485	1
2.000	1										
RESONANCE INTEGRALS				8.903	1	6.785	1	1.468	1	1.032	2
MAXIMUM AVERAGES				6.008	0	6.000	0	0.456	3	1.353	2
T.E. AVERAGES				5.086	0	5.019	0	8.501	3	5.893	2
FISSION AVERAGES				2.884	0	2.717	0	3.763	2	1.295	1
FUSION AVERAGES				1.489	0	9.313	1	3.603	2	5.213	1

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ATOMIC WEIGHT			1.00134			DENSITY			2.1673 0 G/CM/CC		
ENERGY			HFP (CM)			CROSS SECTION (BARN)			ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
1.307-9	6.812-4	6.012-4	1.126-4	2.000-0	1.126-4	1.059-4	2.601-0	2.799-0	0	2.799-0	0
5.227-9	1.362-3	1.362-3	5.633-3	2.000-0	5.631-3	5.294-3	2.800-0	2.799-0	0	2.799-0	0
2.091-8	2.042-2	2.043-2	3.756-2	2.000-0	3.754-2	3.529-2	2.800-0	2.798-0	0	2.798-0	0
3.267-8	2.496-1	2.496-1	3.073-1	2.000-0	3.071-1	2.887-1	2.799-0	2.798-0	0	2.798-0	0
4.704-8	3.172-1	3.172-1	2.418-1	2.000-0	2.416-1	2.272-1	2.799-0	2.798-0	0	2.798-0	0
8.322-8	4.079-3	4.079-3	1.881-3	2.000-0	1.879-3	1.765-3	2.798-0	2.797-0	0	2.797-0	0
1.307-7	4.990-3	4.990-3	1.537-3	2.000-0	1.535-3	1.444-3	2.797-0	2.796-0	0	2.796-0	0
1.882-7	5.896-3	5.897-3	1.301-3	2.000-0	1.299-3	1.221-3	2.797-0	2.795-0	0	2.795-0	0
2.561-7	6.801-3	6.802-3	1.128-3	2.000-0	1.126-3	1.059-3	2.796-0	2.795-0	0	2.795-0	0
3.345-7	7.707-3	7.708-3	9.955-2	2.000-0	9.935-2	9.340-2	2.795-0	2.794-0	0	2.794-0	0
4.234-7	8.566-3	8.567-3	8.956-2	2.000-0	8.936-2	8.401-2	2.795-0	2.793-0	0	2.793-0	0
5.123-7	9.923-3	9.924-3	7.732-2	2.000-0	7.712-2	7.250-2	2.794-0	2.792-0	0	2.792-0	0
7.527-7	1.222-2	1.223-2	6.276-2	2.000-0	6.256-2	5.881-2	2.792-0	2.791-0	0	2.791-0	0
1.176-6	1.448-2	1.448-2	5.300-2	2.000-0	5.280-2	4.964-2	2.790-0	2.789-0	0	2.789-0	0
1.511-6	1.673-2	1.673-2	4.586-2	2.000-0	4.566-2	4.293-2	2.789-0	2.787-0	0	2.787-0	0
2.091-6	1.938-2	1.939-2	3.958-2	2.000-0	3.938-2	3.702-2	2.787-0	2.786-0	0	2.786-0	0
2.741-6	2.208-2	2.209-2	3.75-2	2.000-0	3.455-2	3.248-2	2.785-0	2.784-0	0	2.784-0	0
3.533-6	2.526-2	2.528-2	3.137-2	2.000-0	3.017-2	2.836-2	2.783-0	2.781-0	0	2.781-0	0
4.704-6	2.835-2	2.837-2	2.705-2	2.000-0	2.685-2	2.525-2	2.780-0	2.779-0	0	2.779-0	0
5.658-6	3.100-2	3.101-2	2.475-2	2.000-0	2.455-2	2.309-2	2.778-0	2.777-0	0	2.777-0	0
6.737-6	3.412-2	3.414-2	2.248-2	2.000-0	2.228-2	2.095-2	2.776-0	2.775-0	0	2.775-0	0
8.322-6	3.724-2	3.727-2	2.060-2	2.000-0	2.040-2	1.918-2	2.774-0	2.772-0	0	2.772-0	0
9.625-6	3.991-2	3.994-2	1.922-2	2.000-0	1.902-2	1.788-2	2.772-0	2.771-0	0	2.771-0	0
1.101-5	4.307-2	4.310-2	1.781-2	2.000-0	1.761-2	1.656-2	2.770-0	2.768-0	0	2.768-0	0
1.307-5	4.4-2	4.426-2	1.660-2	2.000-0	1.640-2	1.542-2	2.768-0	2.766-0	0	2.766-0	0
1.469-5	4.844-2	4.848-2	1.564-2	2.000-0	1.564-2	1.470-2	2.766-0	2.764-0	0	2.764-0	0
1.581-5	5.065-2	5.069-2	1.514-2	2.000-0	1.495-2	1.405-2	2.764-0	2.763-0	0	2.763-0	0
1.758-5	5.286-2	5.291-2	1.451-2	2.000-0	1.431-2	1.346-2	2.762-0	2.761-0	0	2.761-0	0
1.882-5	5.507-2	5.512-2	1.393-2	2.000-0	1.373-2	1.291-2	2.761-0	2.759-0	0	2.759-0	0
2.075-5	5.771-2	5.777-2	1.329-2	2.000-0	1.309-2	1.231-2	2.759-0	2.758-0	0	2.758-0	0
2.271-5	5.992-2	5.998-2	1.280-2	2.000-0	1.260-2	1.185-2	2.757-0	2.756-0	0	2.756-0	0
2.417-5	6.168-2	6.174-2	1.244-2	2.000-0	1.224-2	1.151-2	2.756-0	2.755-0	0	2.755-0	0
2.561-5	6.344-2	6.351-2	1.209-2	2.000-0	1.189-2	1.118-2	2.755-0	2.753-0	0	2.753-0	0
2.710-5	6.519-2	6.526-2	1.177-2	2.000-0	1.157-2	1.088-2	2.753-0	2.752-0	0	2.752-0	0
2.862-5	6.650-2	6.658-2	1.154-2	2.000-0	1.134-2	1.066-2	2.753-0	2.751-0	0	2.751-0	0
2.940-5	6.783-2	6.791-2	1.131-2	2.000-0	1.111-2	1.045-2	2.752-0	2.750-0	0	2.750-0	0
3.098-5	7.001-2	7.010-2	1.096-2	2.000-0	1.076-2	1.011-2	2.750-0	2.749-0	0	2.749-0	0
3.345-5	7.264-2	7.273-2	1.056-2	2.000-0	1.036-2	9.741-1	2.748-0	2.747-0	0	2.747-0	0
3.601-5	7.526-2	7.536-2	1.019-2	2.000-0	9.993-1	9.395-1	2.746-0	2.745-0	0	2.745-0	0
3.866-5	7.744-2	7.755-2	9.907-1	2.000-0	9.707-1	9.125-1	2.745-0	2.743-0	0	2.743-0	0
4.048-5	7.919-2	7.930-2	9.688-1	2.000-0	9.488-1	8.920-1	2.743-0	2.742-0	0	2.742-0	0
4.234-5	8.049-2	8.061-2	9.531-1	2.000-0	9.331-1	8.772-1	2.742-0	2.741-0	0	2.741-0	0
4.329-5	8.224-2	8.235-2	9.329-1	2.000-0	9.129-1	8.582-1	2.741-0	2.740-0	0	2.740-0	0
4.619-5	8.398-2	8.410-2	9.136-1	2.000-0	8.936-1	8.401-1	2.740-0	2.738-0	0	2.738-0	0
4.717-5	8.528-2	8.540-2	8.966-1	2.000-0	8.796-1	8.270-1	2.738-0	2.737-0	0	2.737-0	0
4.918-5	8.701-2	8.714-2	8.817-1	2.000-0	8.617-1	8.101-1	2.738-0	2.736-0	0	2.736-0	0
5.123-5	8.875-2	8.889-2	8.644-1	2.000-0	8.444-1	7.938-1	2.736-0	2.735-0	0	2.735-0	0
5.332-5	9.092-2	9.106-2	8.438-1	2.000-0	8.238-1	7.745-1	2.735-0	2.733-0	0	2.733-0	0
5.654-5	9.264-2	9.279-2	8.281-1	2.000-0	8.081-1	7.597-1	2.733-0	2.732-0	0	2.732-0	0
5.763-5	9.438-2	9.453-2	8.129-1	2.000-0	7.929-1	7.454-1	2.732-0	2.731-0	0	2.731-0	0
6.097-5	9.684-2	9.670-2	7.947-1	2.000-0	7.747-1	7.283-1	2.731-0	2.729-0	0	2.729-0	0
6.325-5	9.826-2	9.843-2	7.807-1	2.000-0	7.607-1	7.152-1	2.729-0	2.728-0	0	2.728-0	0
6.557-5	9.955-2	9.973-2	7.706-1	2.000-0	7.506-1	7.057-1	2.728-0	2.727-0	0	2.727-0	0
6.674-5	1.013-1	1.015-1	7.575-1	2.000-0	7.375-1	6.933-1	2.727-0	2.726-0	0	2.726-0	0
7.034-5	1.030-1	1.032-1	7.449-1	2.000-0	7.249-1	6.815-1	2.726-0	2.725-0	0	2.725-0	0
7.155-5	1.047-1	1.049-1	7.326-1	2.000-0	7.126-1	6.699-1	2.725-0	2.723-0	0	2.723-0	0
7.527-5	1.065-1	1.071-1	7.178-1	2.000-0	6.978-1	6.581-1	2.723-0	2.722-0	0	2.722-0	0
7.780-5	1.081-1	1.084-1	7.094-1	2.000-0	6.894-1	6.461-1	2.722-0	2.721-0	0	2.721-0	0
7.908-5	1.094-1	1.097-1	7.010-1	2.000-0	6.810-1	6.402-1	2.721-0	2.720-0	0	2.720-0	0
8.167-5	1.112-1	1.114-1	6.902-1	2.000-0	6.702-1	6.301-1	2.720-0	2.719-0	0	2.719-0	0
8.431-5	1.133-1	1.135-1	6.771-1	2.000-0	6.571-1	6.178-1	2.718-0	2.717-0	0	2.717-0	0
8.834-5	1.154-1	1.157-1	6.645-1	2.000-0	6.445-1	6.060-1	2.717-0	2.716-0	0	2.716-0	0

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ATOMIC WEIGHT 1.003+0				DENSITY 2.1673+0 GRAMS/CC						
[ENERGY]		MFP (CM)		CROSS SECTION (BARNs)				ENERGY DEPOSIT (MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
0.100	5	1.171	1.171	6.549	2.000	6.349		5.969	2.716	2.714
0.30E+1	5	1.189	1.191	6.555	2.000	6.255		5.890	2.714	2.713
0.60E+1	5	1.201	1.204	6.587	2.000	6.187		5.816	2.713	2.712
0.91E+1	5	1.218	1.221	6.297	2.000	6.097		5.732	2.712	2.711
0.25E+2	4	1.252	1.254	6.129	2.000	5.929		5.574	2.710	2.708
0.44E+2	4	1.294	1.297	5.927	2.000	5.727		5.394	2.707	2.705
0.76E+2	4	1.337	1.340	5.739	2.000	5.529		5.207	2.704	2.702
0.10E+3	4	1.379	1.382	5.565	2.000	5.365		5.044	2.701	2.699
0.14E+3	4	1.417	1.421	5.414	2.000	5.214		4.902	2.698	2.696
0.20E+3	4	1.459	1.463	5.258	2.000	5.058		4.756	2.695	2.693
0.27E+3	4	1.505	1.509	5.098	2.000	4.898		4.605	2.691	2.690
0.34E+3	4	1.547	1.551	4.958	2.000	4.758		4.474	2.688	2.687
0.41E+3	4	1.588	1.593	4.832	2.000	4.632		4.353	2.685	2.684
0.49E+3	4	1.631	1.635	4.722	2.000	4.522		4.235	2.682	2.681
0.57E+3	4	1.672	1.677	4.589	2.000	4.389		4.126	2.679	2.678
0.65E+3	4	1.714	1.719	4.477	2.000	4.277		4.021	2.676	2.675
0.74E+3	4	1.854	1.860	4.338	2.000	4.138		3.702	2.666	2.664
0.83E+3	4	2.068	2.076	3.727	2.000	3.527		3.216	2.651	2.650
0.92E+3	4	2.225	2.233	3.449	2.000	3.249		3.054	2.639	2.637
1.02E+3	4	2.425	2.435	3.164	2.000	2.964		2.786	2.625	2.623
1.12E+3	4	2.580	2.591	2.974	2.000	2.774		2.508	2.614	2.612
1.23E+3	4	2.694	2.707	2.843	2.000	2.643		2.489	2.605	2.603
1.34E+3	4	2.815	2.829	2.725	2.000	2.525		2.374	2.597	2.595
1.46E+3	4	2.894	2.908	2.652	2.000	2.452		2.305	2.591	2.589
1.58E+3	4	3.009	3.025	2.549	2.000	2.349		2.209	2.582	2.580
1.71E+3	4	3.201	3.219	2.397	2.000	2.197		2.065	2.569	2.567
1.84E+3	4	3.377	3.407	2.265	2.000	2.065		1.941	2.555	2.553
1.97E+3	4	3.544	3.581	2.144	2.000	1.944		1.827	2.541	2.539
2.10E+3	3	3.705	3.755	1.978	2.000	1.778		1.671	2.519	2.518
2.23E+3	3	4.242	4.273	1.809	2.000	1.609		1.512	2.493	2.491
2.36E+3	3	4.597	4.634	1.669	2.000	1.469		1.381	2.467	2.466
2.49E+3	3	4.945	4.989	1.551	2.000	1.351		1.270	2.442	2.440
2.62E+3	3	5.286	5.336	1.451	2.000	1.251		1.176	2.418	2.416
2.75E+3	3	5.621	5.676	1.369	2.000	1.165		1.095	2.394	2.392
2.88E+3	3	5.948	6.011	1.290	2.000	1.090		1.024	2.370	2.368
3.01E+3	3	6.269	6.339	1.224	2.000	1.024		9.622	2.347	2.345
3.14E+3	3	6.584	6.661	1.165	2.000	9.652		9.071	2.325	2.322
3.27E+3	3	6.795	7.287	1.066	2.000	8.662		8.140	2.281	2.278
3.40E+3	3	8.070	8.165	9.507	2.000	7.507		7.053	2.218	2.216
3.53E+3	3	9.029	9.135	8.496	2.000	6.496		6.102	2.149	2.147
3.66E+3	3	1.019	1.038	7.526	2.078	5.451		5.118	2.038	2.037
3.79E+3	3	1.144	1.169	6.708	2.141	4.567		4.295	1.921	1.919
3.92E+3	3	1.264	1.276	6.160	2.184	3.975		3.729	1.825	1.823
4.05E+3	3	1.365	1.362	5.784	2.227	3.557		3.334	1.743	1.742
4.18E+3	3	1.437	1.437	5.491	2.273	3.216		3.014	1.666	1.664
4.31E+3	3	1.459	1.503	5.261	2.321	2.938		2.750	1.593	1.591
4.44E+3	3	1.518	1.568	5.053	2.380	2.673		2.500	1.514	1.512
4.57E+3	3	1.572	1.627	4.881	2.454	2.420		2.261	1.442	1.440
4.70E+3	3	1.606	1.668	4.771	2.553	2.208		2.060	1.339	1.338
4.83E+3	3	1.631	1.696	4.704	2.679	2.026		1.886	1.254	1.253
4.96E+3	3	1.639	1.709	4.682	2.875	1.807		1.678	1.137	1.136
5.09E+3	3	1.613	1.690	4.755	3.205	1.550		1.433	9.819	9.807
5.22E+3	3	1.585	1.665	4.840	3.455	1.395		1.275	8.810	8.798
5.35E+3	3	1.584	1.667	4.843	3.588	1.265		1.144	8.120	8.108
5.48E+3	3	1.576	1.660	4.869	3.684	1.185		1.068	7.771	7.759
5.61E+3	3	1.577	1.663	4.865	3.745	1.120		9.986	7.466	7.454
5.74E+3	3	1.586	1.685	4.807	3.790	1.017		8.953	7.005	6.995
5.87E+3	3	1.631	1.731	4.704	3.806	8.979		7.777	6.499	6.487
6.00E+3	3	1.667	1.835	4.604	3.769	8.344		7.076	6.313	6.301
6.13E+3	3	1.751	2.070	4.381	3.636	7.453		5.947	6.114	6.101
6.26E+3	3	1.812	2.442	4.293	3.589	5.905		4.460	5.817	5.802
6.39E+3	3	2.308	2.793	3.324	2.922	4.019		2.925	5.118	5.101

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ATOMIC WEIGHT 1.0013		DENSITY 2.1673 ± 0 GRAMS/CC									
ENERGY MEV	HFP (CM)		CROSS SECTION (BARN)							ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.			TOTAL	LOCAL
7.527-1	2.655-0	3.166-0	2.890-0	2.583-0	3.066-1		2.118-1			4.931-1	4.912-1
9.384-1	3.001-0	3.545-0	2.556-0	2.286-0			1.420-1			4.669-1	4.648-1
1.025-0	3.299-0	3.819-0	2.326-0	2.125-0	2.005-1	6.293-4	1.139-1			4.955-1	4.929-1
1.176-0	3.528-0	3.866-0	2.175-0	1.972-0	2.005-1	2.485-3	1.068-1			5.636-1	5.603-1
1.338-0	3.700-0	3.921-0	2.069-0	1.854-0	2.078-1	4.492-3	1.022-1			6.391-1	6.356-1
1.511-0	3.712-0	3.933-0	2.067-0	1.759-0	2.991-1	8.578-3	1.322-1			8.578-1	8.522-1
1.694-0	3.598-0	4.047-0	2.132-0	1.703-0	4.014-1		2.761-2			1.089-0	1.076-0
1.887-0	3.585-0	4.055-0	2.140-0	1.704-0	3.921-1	4.356-2	2.629-2			1.131-0	1.114-0
2.091-0	3.680-0	4.095-0	2.085-0	1.741-0	2.928-1		2.170-2			9.962-1	9.754-1
2.305-0	3.590-0	3.911-0	2.137-0	1.816-0	2.373-1	8.350-2	1.830-2			9.368-1	8.902-1
2.530-0	3.470-0	3.719-0	2.211-0	1.850-0	2.341-1	1.271-2	2.745-2			9.834-1	9.997-1
2.741-0	3.558-0	3.960-0	2.156-0	1.749-0	2.317-1	1.751-2	1.806-2			1.084-0	9.313-1
3.011-0	3.854-0	4.513-0	1.980-0	1.567-0	2.189-1	2.000-2	4.329-2			1.136-0	9.647-1
3.267-0	4.183-0	5.122-0	1.832-0	1.411-0	2.211-1	2.000-2	4.358-2			1.226-0	1.036-0
3.533-0	4.388-0	5.637-0	1.748-0	1.320-0	2.288-1	2.000-2	4.402-2			1.312-0	1.113-0
3.811-0	4.195-0	5.705-0	1.829-0	1.374-0	2.546-1	2.004-2	4.519-2			1.381-0	1.188-0
4.089-0	4.016-0	5.707-0	1.910-0	1.425-0	2.627-1	2.093-2	4.767-2			1.476-0	1.269-0
4.396-0	4.325-0	6.231-0	1.774-0	1.277-0	2.767-1	2.207-2	4.916-2			1.602-0	1.348-0
4.704-0	4.729-0	6.880-0	1.622-0	1.126-0	2.692-1	2.270-2	4.945-2			1.728-0	1.429-0
4.991-0	4.955-0	7.293-0	1.558-0	1.047-0	2.711-1	2.297-2	4.631-2			1.853-0	1.521-0
5.353-0	4.927-0	7.432-0	1.547-0	1.042-0	2.798-1	2.347-2	4.614-2			1.968-0	1.604-0
5.650-0	4.871-0	7.469-0	1.575-0	1.037-0	2.605-1	2.772-2	4.475-2			2.094-0	1.512-0
6.042-0	4.840-0	7.614-0	1.585-0	1.032-0	2.351-1	3.180-2	4.294-2			2.188-0	1.534-0
6.367-0	4.823-0	7.753-0	1.581-0	1.027-0	2.119-1	3.521-2	4.279-2			2.263-0	1.486-0
6.737-0	4.796-0	7.904-0	1.600-0	1.021-0	1.870-1	3.922-2	4.427-2			2.382-0	1.425-0
7.156-0	4.815-0	8.130-0	1.593-0	1.015-0	1.750-1	4.035-2	4.387-2			2.484-0	1.433-0
7.648-0	4.849-0	8.246-0	1.582-0	1.009-0	1.675-1	4.057-2	4.338-2			2.538-0	1.459-0
8.191-0	4.881-0	8.354-0	1.572-0	1.003-0	1.606-1	4.080-2	4.303-2			2.620-0	1.490-0
8.326-0	4.912-0	8.462-0	1.566-0	9.967-1	1.547-1	4.106-2	4.287-2			2.731-0	1.534-0
8.787-0	4.942-0	8.577-0	1.552-0	9.903-1	1.490-1	4.131-2	4.268-2			2.845-0	1.576-0
9.177-0	4.970-0	8.676-0	1.544-0	9.837-1	1.431-1	4.167-2	4.211-2			2.955-0	1.618-0
9.665-0	4.993-0	8.770-0	1.536-0	9.766-1	1.370-1	4.226-2	4.339-2			3.095-0	1.663-0
1.012-1	5.004-0	8.823-0	1.533-0	9.697-1	1.337-1	4.246-2	4.508-2			3.222-0	1.729-0
1.058-1	5.011-0	8.864-0	1.531-0	9.630-1	1.316-1	4.265-2	4.715-2			3.346-0	1.803-0
1.101-1	5.018-0	8.897-0	1.529-0	9.558-1	1.293-1	4.272-2	4.936-2			3.443-0	1.887-0
1.155-1	5.025-0	8.944-0	1.527-0	9.484-1	1.269-1	4.278-2	5.159-2			3.625-0	1.987-0
1.199-1	5.033-0	9.003-0	1.522-0	9.413-1	1.246-1	4.285-2	5.377-2			3.765-0	2.058-0
1.250-1	5.064-0	9.096-0	1.515-0	9.332-1	1.220-1	4.297-2	5.623-2			3.932-0	2.152-0
1.307-1	5.089-0	9.198-0	1.508-0	9.254-1	1.195-1	4.629-2	5.860-2			4.104-0	2.246-0
1.354-1	5.107-0	9.283-0	1.502-0	9.185-1	1.176-1	4.653-2	6.040-2			4.237-0	2.318-0
1.386-1	5.120-0	9.341-0	1.498-0	9.150-1	1.162-1	4.670-2	6.173-2			4.336-0	2.373-0
1.413-1	5.133-0	9.392-0	1.495-0	9.109-1	1.149-1	4.687-2	6.295-2			4.428-0	2.424-0
1.441-1	5.147-0	9.444-0	1.491-0	9.068-1	1.135-1	4.703-2	6.417-2			4.521-0	2.474-0
1.468-1	5.179-0	9.522-0	1.481-0	9.012-1	1.090-1	4.711-2	6.589-2			4.633-0	2.522-0
1.519-1	5.229-0	9.556-0	1.467-0	8.953-1	1.020-1	4.698-2	6.672-2			4.767-0	2.586-0
1.575-1	5.291-0	9.590-0	1.453-0	8.895-1	9.928-2	4.690-2	7.068-2			4.910-0	2.659-0
1.633-1	5.321-0	9.580-0	1.442-0	8.837-1	9.940-2	4.667-2	7.316-2			5.080-0	2.729-0
1.698-1	5.361-0	9.565-0	1.431-0	8.778-1	8.785-2	4.656-2	7.566-2			5.250-0	2.870-0
1.752-1	5.402-0	9.552-0	1.420-0	8.717-1	8.441-2	4.643-2	7.817-2			5.434-0	2.981-0
1.813-1	5.450-0	9.555-0	1.408-0	8.656-1	7.913-2	4.631-2	8.069-2			5.605-0	3.080-0
1.875-1	5.526-0	9.618-0	1.388-0	8.562-1	7.072-2	4.612-2	8.445-2			5.852-0	3.216-0
2.000-1											
RESONANCE INTEGRALS			1.758-3	3.669-1	1.721-3	7.160-1	1.618-3				
MAXWELLIAN AVERAGES			3.417-3	2.000-0	3.415-3		3.210-3				
1/E AVERAGES			1.004-2	2.096-0	9.829-1	4.090-2	9.243-1				
FISSION AVERAGES			2.579-0	2.086-0	4.144-1	7.644-2	3.803-1				
FUSION AVERAGES			1.497-0	8.140-1	1.157-1	4.673-1	6.222-1				

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ATOMIC WEIGHT		1.1009 x 1		DENSITY 2.3829 g GRAMS/CC					
ENERGY		MF (CM)		CROSS SECTION (BARNs)				ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	LOCAL
1.507-9	1.529-0	1.629-0	0	5.016-0	5.000-0	1.620-2	2.737-2	1.088-2	1.638-6
1.527-9	1.532-0	1.631-0	0	5.008-0	5.000-0	7.968-3	1.347-2	5.362-3	8.087-7
1.547-9	1.533-0	1.632-0	0	5.005-0	5.000-0	5.059-3	8.550-3	3.406-3	5.167-7
1.567-8	1.533-0	1.633-0	0	5.005-0	5.000-0	4.505-3	7.613-3	3.033-3	4.626-7
1.587-8	1.533-0	1.633-0	0	5.004-0	5.000-0	3.662-3	6.189-3	2.467-3	3.812-7
1.607-8	1.534-0	1.633-0	0	5.003-0	5.000-0	2.549-3	4.308-3	1.717-3	2.749-7
1.627-8	1.534-0	1.633-0	0	5.002-0	5.000-0	2.203-3	3.723-3	1.484-3	2.479-7
1.647-8	1.534-0	1.634-0	0	5.002-0	5.000-0	1.809-3	3.193-3	1.273-3	2.257-7
1.667-8	1.534-0	1.634-0	0	5.002-0	5.000-0	1.554-3	2.626-3	1.047-3	2.030-7
1.687-8	1.534-0	1.634-0	0	5.001-0	5.000-0	1.421-3	2.402-3	9.576-4	2.024-7
1.707-8	1.534-0	1.634-0	0	5.001-0	5.000-0	1.332-3	2.251-3	8.977-4	2.071-7
1.727-8	1.534-0	1.634-0	0	5.001-0	5.000-0	1.167-3	1.973-3	7.888-4	2.157-7
1.747-8	1.534-0	1.634-0	0	5.001-0	5.000-0	9.722-4	1.474-3	5.879-4	2.369-7
1.767-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.393-4	2.879-7
1.787-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.394-4	1.462-6
1.807-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.395-4	5.529-7
1.827-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.396-4	5.639-7
1.847-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.397-4	7.150-7
1.867-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.399-4	8.785-7
1.887-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.401-4	1.035-6
1.907-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.403-4	1.240-6
1.927-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.405-4	1.462-6
1.947-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.407-4	1.669-6
1.967-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.410-4	1.934-6
1.987-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.412-4	2.217-6
2.007-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.415-4	2.426-6
2.027-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.417-4	2.651-6
2.047-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.419-4	2.882-6
2.067-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.422-4	3.125-6
2.087-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.425-4	3.430-6
2.107-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.427-4	3.693-6
2.127-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.429-4	3.912-6
2.147-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.432-4	4.137-6
2.167-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.434-4	4.369-6
2.187-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.436-4	4.546-6
2.207-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.438-4	4.728-6
2.227-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.441-4	5.040-6
2.247-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.445-4	5.426-6
2.267-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.449-4	5.827-6
2.287-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.452-4	6.171-6
2.307-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.455-4	6.454-6
2.327-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.457-4	6.670-6
2.347-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.460-4	6.966-6
2.367-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.463-4	7.265-6
2.387-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.465-4	7.496-6
2.407-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.468-4	7.808-6
2.427-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.472-4	8.126-6
2.447-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.476-4	8.534-6
2.467-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.479-4	8.866-6
2.487-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.482-4	9.207-6
2.507-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.487-4	9.639-6
2.527-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.490-4	9.993-6
2.547-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.493-4	1.026-5
2.567-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.497-4	1.063-5
2.587-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.500-4	1.100-5
2.607-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.504-4	1.138-5
2.627-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.509-4	1.185-5
2.647-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.512-4	1.215-5
2.667-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.515-4	1.245-5
2.687-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.519-4	1.295-5
2.707-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.524-4	1.332-5
2.727-8	1.534-0	1.634-0	0	5.001-0	5.000-0	8.000-4	1.352-3	5.528-4	1.369-5

ATOMIC WEIGHT		1.1029* 1		DENSITY 2.3829* 0 GRAMS/CC				
ENERGY		MFP (CM)		CROSS SECTION (BARNs)				ENERGY DEPOSIT (NEW)
MEV	TOTAL	TRANSPOR	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL LOCAL
9.108-5	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.533-4	1.431-5
9.395-5	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.533-4	1.431-5
9.668-5	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.541-4	1.507-5
9.911-5	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.545-4	1.551-5
1.025-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.555-4	1.642-5
1.099-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.566-4	1.758-5
1.176-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.578-4	1.879-5
1.256-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.591-4	2.004-5
1.338-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.602-4	2.120-5
1.406-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.616-4	2.252-5
1.511-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.631-4	2.402-5
1.601-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.645-4	2.543-5
1.694-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.659-4	2.688-5
1.789-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.674-4	2.837-5
1.887-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.689-4	2.990-5
1.988-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.705-4	3.146-5
2.091-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.723-4	3.276-5
2.141-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.853-4	4.631-5
3.267-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	5.936-4	5.454-5
3.811-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.046-4	6.560-5
4.704-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.127-4	7.469-5
4.991-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.211-4	8.302-5
5.658-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.292-4	9.011-5
6.042-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.346-4	9.557-5
6.367-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.432-4	1.041-4
7.156-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.582-4	1.192-4
8.322-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.739-4	1.347-4
9.177-4	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	6.912-4	1.521-4
1.058-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	7.211-4	1.821-4
1.307-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	7.614-4	2.223-4
1.581-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	8.056-4	2.665-4
1.882-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	8.539-4	3.148-4
2.209-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.352-3	9.062-4	3.671-4
2.561-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.353-3	9.626-4	4.234-4
2.940-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.353-3	1.023-3	4.837-4
3.345-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.353-3	1.097-3	5.481-4
3.777-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.353-3	1.156-3	6.165-4
4.234-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.353-3	1.308-3	7.693-4
5.763-3	1.534+0	1.634+0	5.001+0	5.000+0	8.000-4	1.353-3	1.562-3	1.023-3
7.527-3	1.534+0	1.634+0	5.001+0	5.000+0	8.001-4	1.354-3	1.907-3	1.368-3
1.025-2	1.534+0	1.634+0	5.001+0	5.000+0	8.134-4	1.377-3	2.409-3	1.951-3
1.511-2	1.534+0	1.634+0	5.000+0	4.999+0	8.400-4	1.423-3	3.338-3	2.771-3
2.091-2	1.544+0	1.644+0	4.970+0	4.969+0	8.684-4	1.473-3	4.234-3	3.645-3
2.646-2	1.559+0	1.660+0	4.921+0	4.920+0	8.978-4	1.524-3	5.165-3	4.550-3
3.267-2	1.576+0	1.679+0	4.867+0	4.866+0	9.305-4	1.581-3	6.200-3	5.556-3
3.953-2	1.596+0	1.700+0	4.807+0	4.806+0	9.664-4	1.643-3	7.340-3	6.662-3
4.704-2	1.619+0	1.724+0	4.738+0	4.737+0	1.108-3	1.686-3	8.643-3	8.055-3
5.761-2	1.643+0	1.750+0	4.669+0	4.667+0	1.153-3	1.648-3	1.095-2	9.827-3
7.002-2	1.671+0	1.779+0	4.592+0	4.590+0	2.065-3	3.527-3	1.332-2	1.181-2
8.322-2	1.702+0	1.813+0	4.506+0	4.504+0	2.642-3	4.623-3	1.602-2	2.1404-2
9.891-2	1.758+0	1.872+0	4.365+0	4.361+0	3.592-3	6.169-3	2.049-2	2.771-2
1.307-1	1.894+0	1.979+0	4.137+0	4.132+0	5.253-3	9.074-3	2.845-2	2.415-2
1.820-1	1.938+0	2.053+0	3.970+0	3.972+0	2.605-3	1.181-2	3.598-2	3.409-2
2.075-1	1.975+0	2.103+0	3.885+0	3.876+0	9.352-3	1.458-2	4.219-2	3.459-2
2.417-1	2.024+0	2.155+0	3.791+0	3.781+0	1.010-2	1.768-2	4.897-2	3.893-2
2.710-1	2.066+0	2.200+0	3.714+0	3.703+0	1.154-2	2.027-2	5.465-2	4.411-2
2.940-1	2.118+0	2.256+0	3.622+0	3.607+0	1.446-2	2.552-2	6.281-2	4.925-2
3.344-1	2.108+0	2.255+0	3.639+0	3.619+0	2.005-2	3.559-2	7.289-2	5.416-2
3.777-1	1.641+0	1.835+0	4.675+0	4.649+0	2.603-2	4.648-2	7.705-2	5.811-2
4.234-1	1.806+0	2.192+0	4.249+0	4.227+0	2.114-2	5.231-2	8.312-2	6.483-2
5.123-1	2.626+0	3.368+0	2.922+0	2.910+0	1.125-2	2.953-2	9.359-2	8.004-2
6.325-1	3.146+0	3.888+0	2.439+0	2.430+0	9.306-3	1.726-2	1.100-1	9.691-2

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ATOMIC WEIGHT	1.1009+1			DENSITY 2.3829+0 GRAMS/CC		
ENERGY	MEV (CM)			CROSS SECTION (BARN)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN REMAINDER	GAM-PROD.
ENERGY DEPOSIT (MEV)	TOTAL	LOCAL				
7.527-1	3.881+0	4.699+0	1.977+0	1.969+0	8.963-3	1.689-2
9.834-1	4.615+0	5.744+0	1.593+0	1.591+0	1.235-2	2.368-2
1.025+0	3.618+0	4.222+0	2.120+0	2.108+0	1.131-2	2.205-2
1.176+0	2.106+0	2.316+0	3.6-3+0	3.634+0	9.151-3	1.821-2
1.338+0	2.901+0	3.070+0	2.645+0	2.637+0	7.370-3	1.494-2
1.511+0	3.615+0	3.847+0	2.122+0	2.114+0	7.718-3	1.599-2
1.694+0	4.538+0	4.079+0	2.169+0	2.158+0	1.102-2	2.332-2
1.987+0	4.064+0	4.723+0	1.888+0	1.879+0	8.666-3	1.873-2
2.291+0	4.169+0	4.717+0	1.840+0	1.832+0	8.036-3	1.779-2
2.305+0	3.314+0	3.647+0	2.315+0	2.303+0	9.786-3	2.481-2
2.530+0	3.605+0	3.896+0	2.128+0	2.104+0	6.895-3	1.719-2
2.741+0	4.119+0	4.669+0	1.863+0	1.821+0	2.864-3	3.883-2
3.011+0	4.515+0	5.451+0	1.699+0	1.638+0	9.375-4	5.972-2
3.267+0	4.964+0	6.371+0	1.545+0	1.466+0	8.199-4	7.801-2
3.533+0	5.343+0	7.316+0	1.436+0	1.338+0	6.976-4	9.704-2
3.811+0	5.837+0	8.275+0	1.361+0	1.245+0	5.772-4	1.153-1
4.069+0	5.633+0	8.777+0	1.362+0	1.237+0	4.454-4	1.246-1
4.396+0	5.022+0	8.171+0	1.528+0	1.398+0	3.024-4	1.296-1
4.704+0	4.659+0	7.914+0	1.647+0	1.516+0	1.686-4	1.299-1
4.991+0	4.464+0	8.206+0	1.645+0	1.511+0	8.891-5	1.342-1
5.353+0	4.903+0	8.845+0	1.565+0	1.396+0	5.563-5	1.685-1
5.659+0	5.011+0	9.260+0	1.531+0	1.339+0	9.433-5	1.918-1
6.042+0	4.870+0	9.408+0	1.575+0	1.366+0	9.197-5	2.099-1
6.367+0	5.122+0	1.016+1	1.498+0	1.275+0	8.966-5	2.227-1
6.737+0	5.198+0	1.071+1	1.476+0	1.239+0	8.702-5	2.271-1
7.156+0	5.288+0	1.126+1	1.451+0	1.210+0	5.550-4	2.402-1
7.548+0	5.415+0	1.154+1	1.477+0	1.158+0	2.409-3	2.448-1
7.910+0	5.548+0	1.166+1	1.583+0	1.118+0	4.649-3	2.603-1
8.322+0	5.612+0	1.139+1	1.557+0	1.058+0	7.190-3	3.004-1
8.787+0	5.586+0	1.084+1	1.373+0	1.007+0	9.667-3	3.570-1
9.177+0	5.457+0	1.029+1	1.406+0	9.901-1	1.221-2	4.036-1
9.665+0	5.350+0	9.825+0	1.434+0	9.694-1	1.494-2	4.508-1
1.012+1	5.443+0	9.846+0	1.409+0	9.013-1	1.772-2	5.904-1
1.058+1	5.563+0	9.903+0	1.380+0	8.316-1	2.174-2	5.264-1
1.101+1	5.617+0	9.953+0	1.366+0	7.851-1	2.655-2	5.541-1
1.155+1	5.622+0	9.928+0	1.355+0	7.589-1	3.166-2	5.741-1
1.199+1	5.674+0	9.924+0	1.352+0	7.335-1	3.740-2	5.812-1
1.250+1	5.736+0	9.996+0	1.337+0	7.143-1	4.324-2	5.799-1
1.307+1	5.760+0	9.931+0	1.334+0	7.039-1	4.830-2	5.821-1
1.354+1	5.760+0	9.934+0	1.332+0	6.959-1	5.215-2	5.838-1
1.386+1	5.769+0	9.939+0	1.330+0	6.905-1	5.459-2	5.874-1
1.413+1	5.787+0	9.908+0	1.326+0	6.882-1	5.414-2	5.834-1
1.441+1	5.806+0	9.476+0	1.321+0	6.864-1	5.322-2	5.818-1
1.468+1	5.833+0	9.539+0	1.315+0	6.838-1	5.192-2	5.795-1
1.519+1	5.871+0	9.548+0	1.307+0	6.802-1	5.033-2	5.764-1
1.575+1	5.912+0	9.555+0	1.298+0	6.764-1	4.621-2	5.731-1
1.635+1	5.954+0	9.562+0	1.288+0	6.725-1	4.676-2	5.697-1
1.692+1	5.998+0	9.571+0	1.279+0	6.688-1	4.428-2	5.662-1
1.752+1	6.044+0	9.580+0	1.269+0	6.645-1	4.225-2	5.627-1
1.813+1	6.090+0	9.591+0	1.260+0	6.604-1	4.020-2	5.591-1
1.875+1	6.163+0	9.644+0	1.245+0	6.541-1	3.707-2	5.536-1
2.000+1						
RESONANCE INTEGRALS			7.411+1	7.342+1	7.570-2	6.211-1
MAXWELLIAN AVERAGES			5.005+0	5.000+0	4.890-3	8.247-3
1/E AVERAGES			4.234+0	4.194+0	4.324-3	3.548-2
FISSION AVERAGES			2.346+0	2.305+0	7.825-3	3.306-2
FUSION AVERAGES			1.328+0	6.913-1	5.312-2	5.833-1

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Barns

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ATOMIC WEIGHT 1.0000 ±			DENSITY 2.2479 ± 0 GRAMS/CC					
[ENERGY]		HFP (CM)		CROSS SECTION (BARNs)			[ENERGY DEPOSITION] (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION REMAINDER GAM-PROD.	TOTAL	LOCAL
1.307- 9	1.743+ 0	1.843+ 0	5.093+ 0	5.082+ 0	1.180- 2	1.535- 2	2.116- 2	2.338- 6
5.227- 9	1.761+ 0	1.865+ 0	5.034+ 0	5.028+ 0	5.313- 3	3.907- 3	5.221- 3	1.067- 6
2.091- 9	1.772+ 0	1.877+ 0	5.003+ 0	5.000+ 0	3.428- 3	4.457- 3	3.389- 3	6.953- 7
3.267- 9	1.775+ 0	1.881+ 0	4.993+ 0	4.990+ 0	2.870- 3	3.730- 3	2.843- 3	5.856- 7
4.704- 8	1.782+ 0	1.887+ 0	4.976+ 0	4.973+ 0	2.260- 3	2.939- 3	2.247- 3	5.856- 7
8.322- 8	1.791+ 0	1.897+ 0	4.950+ 0	4.948+ 0	1.725- 3	2.242- 3	1.723- 3	3.669- 7
1.307- 7	1.799+ 0	1.905+ 0	4.928+ 0	4.926+ 0	1.163- 3	2.032- 3	1.569- 3	3.429- 7
1.882- 7	1.808+ 0	1.915+ 0	4.903+ 0	4.901+ 0	1.419- 3	1.845- 3	1.432- 3	3.239- 7
2.561- 7	1.818+ 0	1.926+ 0	4.875+ 0	4.874+ 0	1.251- 3	1.626- 3	1.249- 3	3.012- 7
3.345- 7	1.823+ 0	1.931+ 0	4.863+ 0	4.862+ 0	1.059- 3	1.376- 3	1.078- 3	2.739- 7
4.234- 7	1.826+ 0	1.935+ 0	4.854+ 0	4.853+ 0	8.555- 4	1.112- 3	8.719- 4	2.511- 7
5.123- 7	1.832+ 0	1.941+ 0	4.837+ 0	4.837+ 0	7.190- 4	9.348- 4	7.353- 4	2.405- 7
7.527- 7	1.844+ 0	1.954+ 0	4.806+ 0	4.805+ 0	5.832- 4	7.582- 4	6.004- 4	2.605- 7
1.176- 6	1.853+ 0	1.963+ 0	4.783+ 0	4.783+ 0	5.500- 4	7.150- 4	5.689- 4	3.083- 7
1.511- 6	1.862+ 0	1.973+ 0	4.761+ 0	4.760+ 0	5.250- 4	7.150- 4	5.717- 4	3.743- 7
2.091- 6	1.874+ 0	1.985+ 0	4.730+ 0	4.729+ 0	5.500- 4	7.150- 4	5.755- 4	4.631- 7
2.741- 6	1.886+ 0	1.998+ 0	4.700+ 0	4.700+ 0	5.500- 4	7.150- 4	5.792- 4	5.181- 7
3.533- 6	1.892+ 0	2.005+ 0	4.665+ 0	4.684+ 0	5.500- 4	7.150- 4	5.813- 4	7.080- 7
4.704- 6	1.898+ 0	2.011+ 0	4.669+ 0	4.669+ 0	5.500- 4	7.150- 4	5.833- 4	8.605- 7
5.658- 6	1.904+ 0	2.017+ 0	4.655+ 0	4.654+ 0	5.500- 4	7.150- 4	5.853- 4	1.006- 6
6.537- 6	1.912+ 0	2.026+ 0	4.636+ 0	4.635+ 0	5.500- 4	7.150- 4	5.879- 4	1.197- 6
8.322- 6	1.921+ 0	2.035+ 0	4.619+ 0	4.615+ 0	5.500- 4	7.150- 4	5.907- 4	1.404- 6
9.520- 6	1.927+ 0	2.041+ 0	4.601+ 0	4.601+ 0	5.500- 4	7.150- 4	5.927- 4	1.616- 6
1.101- 5	1.927+ 0	2.041+ 0	4.600+ 0	4.600+ 0	5.500- 4	7.150- 4	5.930+ 4	1.844- 6
1.307- 5	1.927+ 0	2.041+ 0	4.600+ 0	4.600+ 0	5.500- 4	7.150- 4	5.933+ 4	2.107- 6
1.468- 5	1.927+ 0	2.041+ 0	4.600+ 0	4.599+ 0	5.500- 4	7.150- 4	5.935+ 4	2.303- 6
1.681- 5	1.927+ 0	2.041+ 0	4.600+ 0	4.599+ 0	5.500- 4	7.150- 4	5.938+ 4	2.511- 6
1.798- 5	1.927+ 0	2.042+ 0	4.600+ 0	4.599+ 0	5.500- 4	7.150- 4	5.940+ 4	2.726- 6
1.882- 5	1.927+ 0	2.042+ 0	4.600+ 0	4.599+ 0	5.500- 4	7.150- 4	5.943+ 4	2.952- 6
2.075- 5	1.927+ 0	2.042+ 0	4.599+ 0	4.599+ 0	5.500- 4	7.150- 4	5.946+ 4	3.180- 6
2.277- 5	1.927+ 0	2.042+ 0	4.599+ 0	4.599+ 0	5.500- 4	7.150- 4	5.948+ 4	3.420- 6
2.417- 5	1.927+ 0	2.042+ 0	4.599+ 0	4.598+ 0	5.500- 4	7.150- 4	5.951+ 4	3.684- 6
2.561- 5	1.927+ 0	2.042+ 0	4.599+ 0	4.598+ 0	5.500- 4	7.150- 4	5.953+ 4	3.893- 6
2.710- 5	1.928+ 0	2.042+ 0	4.599+ 0	4.598+ 0	5.500- 4	7.150- 4	5.955+ 4	4.109- 6
2.862- 5	1.928+ 0	2.042+ 0	4.599+ 0	4.598+ 0	5.500- 4	7.150- 4	5.957+ 4	4.327- 6
2.946- 5	1.928+ 0	2.042+ 0	4.599+ 0	4.598+ 0	5.500- 4	7.150- 4	5.959+ 4	4.543- 6
3.099- 5	1.928+ 0	2.042+ 0	4.598+ 0	4.598+ 0	5.500- 4	7.150- 4	5.962+ 4	4.732- 6
3.361- 5	1.928+ 0	2.042+ 0	4.598+ 0	4.598+ 0	5.500- 4	7.150- 4	5.966+ 4	4.936- 6
3.605- 5	1.928+ 0	2.042+ 0	4.598+ 0	4.597+ 0	5.500- 4	7.150- 4	5.970+ 4	5.165- 6
3.856- 5	1.928+ 0	2.043+ 0	4.598+ 0	4.597+ 0	5.500- 4	7.150- 4	5.973+ 4	5.405- 6
4.048- 5	1.928+ 0	2.043+ 0	4.597+ 0	4.597+ 0	5.500- 4	7.150- 4	5.976+ 4	5.649- 6
4.234- 5	1.928+ 0	2.043+ 0	4.597+ 0	4.596+ 0	5.500- 4	7.150- 4	5.979+ 4	5.904- 6
4.328- 5	1.928+ 0	2.043+ 0	4.597+ 0	4.596+ 0	5.500- 4	7.150- 4	5.982+ 4	6.134- 6
4.619- 5	1.928+ 0	2.043+ 0	4.597+ 0	4.596+ 0	5.500- 4	7.150- 4	5.985+ 4	6.372- 6
4.717- 5	1.928+ 0	2.043+ 0	4.597+ 0	4.595+ 0	5.500- 4	7.150- 4	5.987+ 4	6.601- 6
4.918- 5	1.929+ 0	2.043+ 0	4.596+ 0	4.596+ 0	5.500- 4	7.150- 4	5.990+ 4	6.830- 6
5.123- 5	1.929+ 0	2.043+ 0	4.596+ 0	4.596+ 0	5.500- 4	7.150- 4	5.993+ 4	7.074- 6
5.332- 5	1.929+ 0	2.043+ 0	4.596+ 0	4.595+ 0	5.500- 4	7.150- 4	5.997+ 4	7.321- 6
5.654- 5	1.929+ 0	2.043+ 0	4.596+ 0	4.595+ 0	5.500- 4	7.150- 4	6.001+ 4	8.292- 6
5.763- 5	1.929+ 0	2.043+ 0	4.596+ 0	4.595+ 0	5.500- 4	7.150- 4	6.004+ 4	8.609- 6
6.107- 5	1.929+ 0	2.044+ 0	4.595+ 0	4.595+ 0	5.500- 4	7.150- 4	6.009+ 4	9.011- 6
6.325- 5	1.929+ 0	2.044+ 0	4.595+ 0	4.595+ 0	5.500- 4	7.150- 4	6.012+ 4	9.340- 6
6.557- 5	1.929+ 0	2.044+ 0	4.595+ 0	4.594+ 0	5.500- 4	7.150- 4	6.015+ 4	9.591- 6
6.674+ 5	1.929+ 0	2.044+ 0	4.595+ 0	4.594+ 0	5.500- 4	7.150- 4	6.019+ 4	9.842- 6
7.034+ 5	1.929+ 0	2.044+ 0	4.594+ 0	4.594+ 0	5.500- 4	7.150- 4	6.022+ 4	1.029- 5
7.159+ 5	1.929+ 0	2.044+ 0	4.594+ 0	4.594+ 0	5.500- 4	7.150- 4	6.026+ 4	1.063- 5
7.527+ 5	1.930+ 0	2.044+ 0	4.594+ 0	4.593+ 0	5.500- 4	7.150- 4	6.031+ 4	1.108- 5
7.780+ 5	1.930+ 0	2.044+ 0	4.594+ 0	4.593+ 0	5.500- 4	7.150- 4	6.034+ 4	1.135- 5
7.908+ 5	1.930+ 0	2.044+ 0	4.593+ 0	4.593+ 0	5.500- 4	7.150- 4	6.037+ 4	1.163- 5
8.167+ 5	1.930+ 0	2.044+ 0	4.593+ 0	4.593+ 0	5.500- 4	7.150- 4	6.041+ 4	1.191- 5
8.431+ 5	1.930+ 0	2.045+ 0	4.593+ 0	4.592+ 0	5.500- 4	7.150- 4	6.046+ 4	1.248- 5
8.834+ 5	1.930+ 0	2.045+ 0	4.592+ 0	4.592+ 0	5.500- 4	7.150- 4	6.052+ 4	1.296- 5

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ATOMIC WEIGHT 1.0000-1		DENSITY 2.2479-0 GRAMS/CC									
ENERGY MEV	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARNs)				ENERGY DEPOSIT (MEV)			
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.108-5	1.930-0	2.045-0	4.592-0	4.592-0	5.500-4	7.150-4	6.056-4	1.336-5			
9.386-5	1.930-0	2.045-0	4.592-0	4.591-0	5.500-4	7.150-4	6.060-4	1.376-5			
9.668-5	1.931-0	2.045-0	4.592-0	4.591-0	5.500-4	7.150-4	6.064-4	1.406-5			
9.811-5	1.931-0	2.045-0	4.591-0	4.591-0	5.500-4	7.150-4	6.068-4	1.448-5			
1.025-4	1.931-0	2.045-0	4.591-0	4.590-0	5.500-4	7.150-4	6.077-4	1.532-5			
1.095-4	1.931-0	2.046-0	4.590-0	4.590-0	5.500-4	7.150-4	6.089-4	1.640-5			
1.171-4	1.932-0	2.046-0	4.589-0	4.589-0	5.500-4	7.150-4	6.102-4	1.753-5			
1.250-4	1.932-0	2.047-0	4.588-0	4.588-0	5.500-4	7.150-4	6.114-4	1.869-5			
1.332-4	1.932-0	2.047-0	4.588-0	4.587-0	5.500-4	7.150-4	6.126-4	1.976-5			
1.406-4	1.933-0	2.047-0	4.587-0	4.586-0	5.500-4	7.150-4	6.139-4	2.100-5			
1.511-4	1.933-0	2.048-0	4.586-0	4.585-0	5.500-4	7.150-4	6.153-4	2.239-5			
1.601-4	1.933-0	2.048-0	4.585-0	4.584-0	5.500-4	7.150-4	6.169-4	2.370-5			
1.674-4	1.934-0	2.049-0	4.584-0	4.583-0	5.500-4	7.150-4	6.184-4	2.505-5			
1.789-4	1.934-0	2.049-0	4.583-0	4.582-0	5.500-4	7.150-4	6.199-4	2.643-5			
1.897-4	1.935-0	2.049-0	4.582-0	4.581-0	5.500-4	7.150-4	6.214-4	2.785-5			
1.988-4	1.935-0	2.050-0	4.581-0	4.580-0	5.500-4	7.150-4	6.230-4	2.931-5			
2.091-4	1.937-0	2.052-0	4.577-0	4.577-0	5.500-4	7.150-4	6.289-4	3.477-5			
2.241-4	1.939-0	2.054-0	4.571-0	4.571-0	5.500-4	7.150-4	6.381-4	4.212-5			
2.357-4	1.941-0	2.057-0	4.566-0	4.565-0	5.500-4	7.150-4	6.464-4	5.078-5			
3.811-4	1.945-0	2.060-0	4.559-0	4.558-0	5.500-4	7.150-4	6.577-4	6.106-5			
4.704-4	1.947-0	2.063-0	4.553-0	4.552-0	5.500-4	7.150-4	6.669-4	6.951-5			
4.991-4	1.949-0	2.065-0	4.548-0	4.547-0	5.500-4	7.151-4	6.744-4	7.634-5			
5.658-4	1.951-0	2.067-0	4.542-0	4.542-0	5.500-4	7.151-4	6.826-4	8.387-5			
6.042-4	1.953-0	2.069-0	4.539-0	4.538-0	5.500-4	7.151-4	6.881-4	8.894-5			
6.367-4	1.955-0	2.071-0	4.533-0	4.533-0	5.500-4	7.151-4	6.968-4	9.691-5			
7.486-4	1.960-0	2.076-0	4.523-0	4.523-0	5.500-4	7.151-4	7.121-4	1.109-4			
8.322-4	1.954-0	2.081-0	4.513-0	4.513-0	5.500-4	7.151-4	7.260-4	1.254-4			
9.177-4	1.969-0	2.085-0	4.503-0	4.502-0	5.500-4	7.151-4	7.455-4	1.416-4			
1.058-3	1.970-0	2.087-0	4.501-0	4.500-0	5.500-4	7.151-4	7.737-4	1.694-4			
1.307-3	1.970-0	2.087-0	4.501-0	4.500-0	5.500-4	7.151-4	8.111-4	2.068-4			
1.561-3	1.970-0	2.087-0	4.501-0	4.500-0	5.500-4	7.152-4	8.523-4	2.480-4			
1.882-3	1.970-0	2.087-0	4.501-0	4.500-0	5.499-4	7.152-4	8.971-4	2.929-4			
2.208-3	1.970-0	2.087-0	4.501-0	4.500-0	5.499-4	7.152-4	9.458-4	3.415-4			
2.561-3	1.970-0	2.087-0	4.501-0	4.500-0	5.499-4	7.153-4	9.981-4	3.939-4			
2.940-3	1.970-0	2.087-0	4.501-0	4.500-0	5.499-4	7.153-4	1.054-4	4.500-4			
3.345-3	1.970-0	2.087-0	4.501-0	4.500-0	5.499-4	7.153-4	1.114-4	5.099-4			
3.777-3	1.970-0	2.087-0	4.501-0	4.500-0	5.499-4	7.154-4	1.178-4	5.735-4			
4.234-3	1.970-0	2.087-0	4.501-0	4.500-0	5.499-4	7.155-4	1.320-4	7.156-4			
5.763-3	1.943-0	2.058-0	4.563-0	4.563-0	5.498-4	7.157-4	1.549-4	9.527-4			
7.527-3	1.909-0	2.022-0	4.644-0	4.643-0	5.498-4	7.159-4	1.855-4	1.270-3			
1.025-2	1.948-0	2.064-0	4.551-0	4.550-0	5.497-4	7.162-4	2.412-3	1.815-3			
1.511-2	1.948-0	2.064-0	4.551-0	4.550-0	5.495-4	7.168-4	3.175-3	2.578-3			
2.091-2	1.948-0	2.064-0	4.551-0	4.550-0	5.494-4	7.173-4	3.988-3	3.331-3			
2.646-2	1.847-0	1.957-0	4.798-0	4.798-0	5.492-4	7.179-4	4.797-3	4.231-3			
3.267-2	1.923-0	2.037-0	4.611-0	4.610-0	5.490-4	7.185-4	5.750-3	5.161-3			
3.953-2	1.970-0	2.087-0	4.501-0	4.500-0	5.488-4	7.192-4	6.800-3	6.197-3			
4.704-2	1.970-0	2.087-0	4.501-0	4.500-0	5.486-4	7.201-4	8.094-3	7.491-3			
5.761-2	1.970-0	2.087-0	4.501-0	4.500-0	5.483-4	7.212-4	9.739-3	9.135-3			
7.002-2	1.970-0	2.087-0	4.501-0	4.500-0	5.479-4	7.225-4	1.157-2	1.097-2			
8.322-2	1.970-0	2.087-0	4.501-0	4.500-0	5.475-4	7.239-4	1.364-2	1.304-2			
9.891-2	1.996-0	2.114-0	4.441-0	4.441-0	5.469-4	7.262-4	1.703-2	1.642-2			
1.307-1	2.067-0	2.190-0	4.289-0	4.288-0	5.456-4	7.302-4	2.282-2	2.219-2			
1.820-1	2.120-0	2.292-0	4.181-0	4.181-0	5.447-4	7.339-4	2.776-2	2.711-2			
2.075-1	2.161-0	2.365-0	4.102-0	4.101-0	5.439-4	7.367-4	3.175-2	3.109-2			
2.417-1	2.207-0	2.420-0	4.017-0	4.016-0	5.431-4	7.398-4	3.606-2	3.539-2			
2.710-1	2.246-0	2.468-0	3.917-0	3.947-0	5.424-4	7.422-4	3.951-2	3.893-2			
2.940-1	2.295-0	2.526-0	3.882-0	3.882-0	5.415-4	7.452-4	4.392-2	4.322-2			
3.345-1	2.363-0	2.608-0	3.751-0	3.750-0	5.404-4	7.492-4	4.960-2	4.888-2			
3.777-1	2.440-0	2.701-0	3.632-0	3.632-0	5.392-4	7.533-4	5.560-2	5.486-2			
4.234-1	2.551-0	2.833-0	3.475-0	3.474-0	5.374-4	7.585-4	6.438-2	6.361-2			
5.123-1	2.687-0	3.001-0	3.299-0	3.299-0	5.345-4	7.691-4	7.799-2	7.717-2			
6.325-1	2.807-0	3.162-0	3.158-0	3.157-0	5.313-4	7.799-4	9.366-2	9.282-2			

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ENDL 175 Group Neutron Cons. ant.

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ATOMIC WEIGHT 1.2000+1		DENSITY 2.2473+0 GRAMS/CC									
ENERGY MEV	MFP (CM)		CROSS SECTION (BARN)							ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINER	GAM-PROD.	TOTAL	LOCAL	TOTAL	LOCAL
7.527	2.950+0	3.397+0	2.964+0	2.964+0	5.279-4			7.910-4	1.100-1	1.091-1	
8.834	3.269+0	3.752+0	2.695+0	2.694+0	5.242-4			8.029-4	1.289-1	1.274-1	
1.025+0	3.531+0	4.014+0	2.510+0	2.510+0	5.203-4			8.152-4	1.486-1	1.476-1	
1.176+0	3.742+0	4.236+0	2.369+0	2.369+0	5.161-4			8.281-4	1.701-1	1.680-1	
1.339+0	3.995+0	4.505+0	2.219+0	2.218+0	5.115-4			8.416-4	1.931-1	1.919-1	
1.511+0	4.306+0	4.953+0	2.059+0	2.050+0	5.067-4			8.556-4	2.188-1	2.176-1	
1.694+0	4.612+0	5.258+0	1.889+0	1.889+0	5.017-4			8.699-4	2.492-1	2.479-1	
1.887+0	4.916+0	5.655+0	1.763+0	1.762+0	4.963-4			8.845-4	2.869-1	2.856-1	
2.091+0	5.238+0	5.701+0	1.686+0	1.685+0	4.907-4			8.993-4	3.110-1	3.095-1	
2.305+0	5.619+0	5.967+0	1.578+0	1.577+0	4.847-4			9.142-4	3.551-1	3.535-1	
2.530+0	5.310+0	5.333+0	1.659+0	1.659+0	4.788-4			9.284-4	3.966-1	3.981-1	
2.761+0	5.959+0	3.861+0	2.256+0	2.256+0	4.723-4			9.434-4	4.397-1	4.386-1	
3.011+0	5.289+0	4.690+0	1.763+0	1.762+0	4.653-4			9.569-4	4.760-1	4.747-1	
3.267+0	3.502+0	3.465+0	2.531+0	2.530+0	4.582-4			9.737-4	5.036-1	5.026-1	
3.533+0	3.603+0	3.631+0	2.460+0	2.460+0	4.509-4			9.875-4	5.335-1	5.325-1	
3.811+0	4.466+0	4.596+0	1.985+0	1.984+0	4.436-4			1.000-3	5.639-1	5.629-1	
4.069+0	4.546+0	4.771+0	1.950+0	1.950+0	4.357-4			1.014-3	6.005-1	5.993-1	
4.396+0	5.581+0	5.912+0	1.560+0	1.560+0	4.271-4			1.026-3	6.397-1	6.382-1	
4.704+0	6.735+0	7.190+0	1.215+0	1.214+0	4.181-4	6.272-4		1.043-3	6.796-1	6.758-1	
4.991+0	7.318+0	7.952+0	1.211+0	1.196+0	4.104-4	1.526-4	7.503-2	1.056-3	7.708-1	7.132-1	
5.353+0	7.325+0	7.908+0	1.210+0	1.161+0	4.014-4	4.837-2	1.419-1	1.071-3	9.210-1	7.421-1	
5.658+0	6.236+0	6.937+0	1.076+0	9.283-1	3.920-4	1.475-1	2.110-1	1.084-3	1.343+0	7.733-1	
6.042+0	6.373+0	7.241+0	1.391+0	1.117+0	3.846-4	2.731-1	2.743-1	1.094-3	1.594+0	7.222-1	
6.367+0	9.552+0	1.109+0	1.280+0	1.649+0	3.771-4	2.674+0	2.367+1	1.109-3	2.019+0	7.088-1	
6.737+0	1.104+0	1.374+0	1.828+0	1.196+0	3.683-4	1.885+0	1.649+0	1.124-3	1.684+0	7.317-1	
7.156+0	5.917+0	6.126+0	1.498+0	1.281+0	3.598-4	1.640+0	2.913+0	1.139-3	1.283+0	7.373-1	
7.548+0	4.434+0	6.579+0	1.999+0	1.726+0	3.543-4	2.179+0	3.163+0	1.154-3	1.276+0	7.527-1	
7.910+0	5.177+0	7.611+0	1.712+0	1.361+0	3.454-4	2.675+0	3.959+0	1.169-3	1.463+0	7.977-1	
8.322+0	6.185+0	1.113+0	1.083+0	6.968+0	3.358-4	3.492+0	2.533+0	1.184-3	2.221+0	8.430-1	
8.787+0	7.513+0	1.020+0	1.160+0	7.258+0	3.267-4	4.275+0	2.542+0	1.199-3	2.380+0	8.645-1	
9.177+0	6.934+0	9.359+0	1.297+0	7.918+0	3.180-4	4.800+0	2.696+0	1.214-3	2.401+0	9.045-1	
9.665+0	7.243+0	9.765+0	1.024+0	6.879+0	3.099-4	5.106+0	3.056+0	1.229-3	2.603+0	9.792-1	
1.012+0	7.124+0	9.711+0	1.224+0	6.967+0	2.927-4	5.224+0	2.954+0	1.244-3	2.609+0	1.045+0	
1.058+0	6.378+0	9.000+0	1.390+0	8.220+0	2.856-4	5.448+0	2.874+0	1.259-3	2.438+0	1.127+0	
1.101+0	6.084+0	8.740+0	1.457+0	8.716+0	2.825-4	5.674+0	2.868+0	1.274-3	2.391+0	1.230+0	
1.155+0	6.096+0	8.842+0	1.454+0	8.569+0	2.823-4	5.894+0	2.864+0	1.289-3	2.409+0	1.346+0	
1.199+0	6.211+0	9.032+0	1.427+0	8.205+0	2.822-4	6.114+0	2.823+0	1.304-3	2.465+0	1.478+0	
1.250+0	6.327+0	9.249+0	1.401+0	7.889+0	2.820-4	6.334+0	2.820+0	1.319-3	2.520+0	1.633+0	
1.307+0	6.313+0	9.358+0	1.404+0	7.855+0	2.819-4	6.554+0	2.821+0	1.334-3	2.554+0	1.775+0	
1.354+0	6.300+0	9.451+0	1.407+0	7.833+0	2.818-4	6.774+0	2.821+0	1.349-3	2.591+0	1.889+0	
1.386+0	6.290+0	9.508+0	1.409+0	7.817+0	2.817-4	6.994+0	2.822+0	1.364-3	2.623+0	1.977+0	
1.413+0	6.282+0	9.578+0	1.411+0	7.830+0	2.816-4	7.214+0	2.822+0	1.379-3	2.658+0	2.056+0	
1.441+0	6.159+0	9.550+0	1.439+0	8.115+0	2.816-4	7.434+0	2.822+0	1.394-3	2.663+0	2.115+0	
1.468+0	5.958+0	9.429+0	1.488+0	8.589+0	3.112-2	7.654+0	2.822+0	1.409-3	2.670+0	2.195+0	
1.519+0	5.750+0	9.175+0	1.542+0	8.935+0	3.605-2	7.874+0	2.822+0	1.424-3	2.756+0	2.331+0	
1.575+0	5.640+0	9.012+0	1.572+0	9.030+0	4.201-2	8.094+0	2.822+0	1.439-3	2.891+0	2.498+0	
1.631+0	5.935+0	9.333+0	1.494+0	8.257+0	4.601-2	8.314+0	2.822+0	1.454-3	3.113+0	2.728+0	
1.682+0	6.120+0	9.598+0	1.448+0	7.883+0	5.266-2	8.534+0	2.822+0	1.469-3	3.280+0	2.898+0	
1.752+0	5.981+0	9.629+0	1.482+0	8.337+0	5.732-2	8.754+0	2.822+0	1.484-3	3.296+0	2.927+0	
1.813+0	5.859+0	9.618+0	1.513+0	8.684+0	6.207-2	8.974+0	2.822+0	1.499-3	3.351+0	2.992+0	
1.875+0	5.852+0	9.680+0	1.515+0	8.700+0	6.691-2	9.194+0	2.822+0	1.514-3	3.536+0	3.181+0	
2.000+0											
RESONANCE INTEGRALS			7.000+0	1.6.938+0	4.883-2	5.711-1	3.121-1				
MAXWELLIAN AVERAGES			4.991+0	4.988+0	3.212-3		4.176-3				
1/E AVERAGES			3.999+0	3.953+0	2.790-3	3.263-2	1.793-2				
FISSION AVERAGES			2.402+0	2.389+0	1.250-3	1.199-2	1.450-2				
FUSION AVERAGES			1.417+0	7.906+0	2.723-2	5.991-1	1.840-1				

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ATOMIC WEIGHT		1.4003 x 1		DENSITY		1.2497 3 GRAMS/CC			
ENERGY		MFP (CM)		CROSS SECTION (BARNs)			ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	1.163+3	1.220+3	1.600+1	1.030+1	5.699+0	4.819-1	3.646-1	2.144-1	1.295-1
5.227-8	1.418+3	1.473+3	1.313+1	1.030+1	2.826+0	2.402-1	2.208-1	1.295-1	1.295-1
2.091-8	1.526+3	1.581+3	1.219+1	1.030+1	1.890+0	1.596-1	1.506-1	9.331-2	9.331-2
3.267-8	1.572+3	1.630+3	1.184+1	1.030+1	1.940+0	1.311-1	1.335-1	7.825-2	7.825-2
4.704-8	1.617+3	1.689+3	1.151+1	1.030+1	1.210+0	1.032-1	1.080-1	6.322-2	6.322-2
8.322-8	1.654+3	1.730+3	1.125+1	1.029+1	9.507-1	8.029-2	8.646-2	5.085-2	5.085-2
1.307-7	1.677+3	1.753+3	1.109+1	1.030+1	7.942-1	6.555-2	7.260-2	4.312-2	4.312-2
1.882-7	1.699+3	1.779+3	1.095+1	1.030+1	6.546-1	5.566-2	6.130-2	3.556-2	3.556-2
2.561-7	1.712+3	1.794+3	1.087+1	1.030+1	5.655-1	4.813-2	5.341-2	3.131-2	3.131-2
3.345-7	1.723+3	1.806+3	1.080+1	1.030+1	4.984-1	4.241-2	4.736-2	2.777-2	2.777-2
4.234-7	1.731+3	1.814+3	1.075+1	1.030+1	4.519-1	3.844-2	4.312-2	2.529-2	2.529-2
5.123-7	1.741+3	1.825+3	1.069+1	1.030+1	3.965-1	3.292-2	3.719-2	2.182-2	2.182-2
7.527-7	1.753+3	1.839+3	1.061+1	1.030+1	3.140-1	2.671-2	3.036-2	1.780-2	1.780-2
1.176-6	1.763+3	1.850+3	1.055+1	1.028+1	2.735-1	2.329-2	2.660-2	1.559-2	1.559-2
1.511-6	1.775+3	1.862+3	1.049+1	1.025+1	2.334-1	1.985-2	2.284-2	1.339-2	1.339-2
2.091-6	1.787+3	1.875+3	1.041+1	1.023+1	1.990-1	1.692-2	1.960-2	1.150-2	1.150-2
2.741-6	1.799+3	1.888+3	1.035+1	1.017+1	1.733-1	1.473-2	1.718-2	1.008-2	1.008-2
3.533-6	1.813+3	1.903+3	1.026+1	1.011+1	1.512-1	1.287-2	1.512-2	8.863-3	8.863-3
4.704-6	1.827+3	1.918+3	1.018+1	1.005+1	1.354-1	1.154-2	1.365-2	7.997-3	7.997-3
5.658-6	1.839+3	1.929+3	1.013+1	1.002+1	1.225-1	1.045-2	1.243-2	7.201-3	7.201-3
6.737-6	1.844+3	1.932+3	1.011+1	9.998+0	1.112-1	9.497-3	1.131-2	6.620-3	6.620-3
8.322-6	1.843+3	1.935+3	1.010+1	9.996+0	1.019-1	8.583-3	1.036-2	5.072-3	5.072-3
9.620-6	1.844+3	1.935+3	1.009+1	9.994+0	9.552-2	8.118-3	9.711-3	5.697-3	5.697-3
1.101-5	1.845+3	1.936+3	1.008+1	9.992+0	9.052-2	7.684-3	9.210-3	5.403-3	5.403-3
1.307-5	1.847+3	1.939+3	1.007+1	9.989+0	8.534-2	7.256-3	8.691-3	5.090-3	5.090-3
1.468-5	1.849+3	1.940+3	1.007+1	9.988+0	8.147-2	6.928-3	8.303-3	4.970-3	4.970-3
1.581-5	1.849+3	1.942+3	1.006+1	9.986+0	7.738-2	6.582-3	7.892-3	4.629-3	4.629-3
1.758-5	1.850+3	1.943+3	1.006+1	9.984+0	7.314-2	6.223-3	7.445-3	4.378-3	4.378-3
1.982-5	1.851+3	1.944+3	1.005+1	9.981+0	6.895-2	5.865-3	7.041-3	4.130-3	4.130-3
2.205-5	1.852+3	1.945+3	1.005+1	9.979+0	6.631-2	5.607-3	6.760-3	3.975-3	3.975-3
2.477-5	1.853+3	1.945+3	1.004+1	9.976+0	6.458-2	5.425-3	6.570-3	3.875-3	3.875-3
2.710-5	1.854+3	1.947+3	1.004+1	9.974+0	6.316-2	5.274-3	6.413-3	3.792-3	3.792-3
2.961-5	1.854+3	1.947+3	1.003+1	9.972+0	6.169-2	5.118-3	6.251-3	3.706-3	3.706-3
3.210-5	1.855+3	1.948+3	1.003+1	9.970+0	6.018-2	4.958-3	6.084+3	3.619-3	3.619-3
3.462-5	1.856+3	1.949+3	1.003+1	9.969+0	5.902-2	4.836-3	5.956+3	3.559-3	3.559-3
3.724-5	1.856+3	1.949+3	1.003+1	9.967+0	5.784-2	4.723-3	5.831+3	3.481-3	3.481-3
3.999-5	1.857+3	1.950+3	1.002+1	9.965+0	5.684-2	4.591-3	5.647+3	3.344-3	3.344-3
4.284-5	1.858+3	1.951+3	1.001+1	9.961+0	5.537-2	4.433-3	5.422+3	3.214-3	3.214-3
4.581-5	1.859+3	1.952+3	1.001+1	9.958+0	5.081-2	4.269-3	5.189+3	3.061-3	3.061-3
4.886-5	1.860+3	1.953+3	1.000+1	9.955+0	4.865-2	4.130-3	4.991+3	2.931-3	2.931-3
5.208-5	1.861+3	1.954+3	1.000+1	9.952+0	4.757-2	4.048-3	4.887+3	2.867-3	2.867-3
5.539-5	1.861+3	1.955+3	9.997+0	9.950+0	4.659-2	3.995-3	4.804+3	2.831-3	2.831-3
5.879-5	1.862+3	1.955+3	9.994+0	9.948+0	4.609-2	3.921-3	4.738+3	2.781-3	2.781-3
6.234-5	1.862+3	1.956+3	9.990+0	9.945+0	4.523-2	3.848-3	4.651+3	2.730-3	2.730-3
6.604-5	1.863+3	1.957+3	9.988+0	9.943+0	4.457-2	3.791-3	4.585+3	2.691-3	2.691-3
6.994-5	1.864+3	1.957+3	9.984+0	9.940+0	4.367-2	3.714-3	4.494+3	2.639-3	2.639-3
7.404-5	1.865+3	1.958+3	9.980+0	9.937+0	4.276-2	3.635-3	4.401+3	2.584-3	2.584-3
7.834-5	1.865+3	1.959+3	9.975+0	9.934+0	4.158-2	3.534-3	4.283+3	2.515-3	2.515-3
8.294-5	1.866+3	1.960+3	9.972+0	9.931+0	4.063-2	3.453-3	4.186+3	2.441-3	2.441-3
8.774-5	1.867+3	1.960+3	9.968+0	9.928+0	3.968-2	3.371-3	4.089+3	2.361-3	2.361-3
9.274-5	1.868+3	1.961+3	9.963+0	9.924+0	3.878-2	3.294+3	3.999+3	2.250-3	2.250-3
9.794-5	1.868+3	1.962+3	9.959+0	9.921+0	3.817-2	3.241+3	3.938+3	2.214+3	2.214+3
1.034-4	1.869+3	1.963+3	9.956+0	9.918+0	3.771-2	3.202+3	3.891+3	2.287+3	2.287+3
1.094-4	1.870+3	1.963+3	9.954+0	9.915+0	3.707-2	3.147+3	3.828+3	2.259+3	2.259+3
1.154-4	1.870+3	1.964+3	9.950+0	9.912+0	3.645-2	3.092+3	3.763+3	2.213+3	2.213+3
1.214-4	1.871+3	1.965+3	9.945+0	9.909+0	3.578-2	3.036+3	3.697+3	2.174+3	2.174+3
1.274-4	1.872+3	1.966+3	9.940+0	9.905+0	3.495-2	2.965+3	3.614+3	2.126+3	2.126+3
1.334-4	1.873+3	1.967+3	9.937+0	9.902+0	3.444-2	2.922+3	3.563+3	2.096+3	2.096+3
1.394-4	1.873+3	1.967+3	9.933+0	9.899+0	3.398-2	2.882+3	3.516+3	2.068+3	2.068+3
1.454-4	1.875+3	1.969+3	9.925+0	9.891+0	3.349-2	2.841+3	3.469+3	2.041+3	2.041+3
1.514-4	1.877+3	1.971+3	9.915+0	9.882+0	3.288-2	2.790+3	3.410+3	2.006+3	2.006+3
1.574-4	1.879+3	1.973+3	9.905+0	9.872+0	3.226-2	2.739+3	3.351+3	1.971+3	1.971+3

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ATOMIC WEIGHT		1.4003+1		DENSITY		1 2497- 3 GRAMS/CC	
[ENERGY]		MFP (CM)		CROSS SECTION (BARN)		[ENERGY DEPOSIT (MEV)]	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORP IN REMAINDER	GAM-PROD.
9.108-5	1.880-3	1.975-3	3.896-0	9.864-0	3.176-2	2.697-3	3.305-3
9.386-5	1.882-3	1.976-3	3.888-0	9.856-0	3.174-2	2.653-3	3.314-3
9.669-5	1.883-3	1.978-3	3.881-0	9.850-0	3.086-2	2.622-3	3.316-3
9.911-5	1.885-3	1.979-3	3.872-0	9.842-0	3.000-2	2.583-3	3.317-3
1.025-4	1.888-3	1.983-3	3.855-0	9.825-0	2.984-2	2.535-3	3.319-3
1.099-4	1.892-3	1.987-3	3.823-0	9.804-0	2.917-2	2.478-3	3.311-3
1.176-4	1.897-3	1.992-3	3.810-0	9.781-0	2.898-2	2.419-3	3.302-3
1.256-4	1.901-3	1.997-3	3.786-0	9.758-0	2.776-2	2.357-3	3.295-3
1.338-4	1.906-3	2.002-3	3.764-0	9.737-0	2.710-2	2.300-3	3.283-3
1.406-4	1.911-3	2.007-3	3.738-0	9.712-0	2.633-2	2.234-3	3.270-3
1.511-4	1.915-3	2.011-3	3.716-0	9.690-0	2.547-2	2.150-3	3.270-3
1.601-4	1.918-3	2.015-3	3.699-0	9.674-0	2.466-2	2.091-3	3.262-3
1.694-4	1.922-3	2.018-3	3.682-0	9.658-0	2.383-2	2.018-3	3.254-3
1.789-4	1.925-3	2.022-3	3.664-0	9.641-0	2.297-2	1.946-3	3.248-3
1.887-4	1.929-3	2.026-3	3.645-0	9.624-0	2.209-2	1.870-3	3.240-3
1.988-4	1.933-3	2.030-3	3.628-0	9.607-0	2.142-2	1.810-3	3.233-3
2.091-4	1.946-3	2.044-3	3.561-0	9.541-0	2.021-2	1.687-3	3.218-3
2.711-4	1.967-3	2.066-3	3.461-0	9.442-0	1.833-2	1.508-3	3.201-3
3.267-4	1.982-3	2.082-3	3.387-0	9.370-0	1.666-2	1.419-3	3.187-3
3.811-4	2.000-3	2.101-3	3.301-0	9.266-0	1.489-2	1.315-3	3.171-3
4.704-4	2.013-3	2.118-3	3.244-0	9.229-0	1.402-2	1.230-3	3.137-3
4.991-4	2.023-3	2.126-3	3.198-0	9.184-0	1.375-2	1.161-3	3.109-3
5.658-4	2.034-3	2.137-3	3.147-0	9.134-0	1.260-2	1.095-3	3.149-3
6.042-4	2.040-3	2.143-3	3.119-0	9.107-0	1.222-2	1.051-3	3.159-3
6.367-4	2.049-3	2.152-3	3.082-0	9.071-0	1.176-2	1.018-3	3.167-3
7.156-4	2.063-3	2.167-3	3.019-0	9.006-0	1.096-2	9.895-4	3.185-3
8.322-4	2.076-3	2.181-3	2.961-0	8.951-0	1.032-2	8.992-4	3.183-3
9.177-4	2.090-3	2.196-3	2.901-0	8.891-0	9.730-3	8.362-4	3.252-3
1.059-3	2.114-3	2.220-3	2.802-0	8.793-0	9.130-3	8.131-4	3.233-3
1.307-3	2.136-3	2.246-3	2.703-0	8.695-0	8.414-3	7.960-4	3.210-3
1.581-3	2.163-3	2.272-3	2.602-0	8.594-0	7.627-3	7.787-4	3.199-3
1.882-3	2.189-3	2.300-3	2.479-0	8.492-0	6.884-3	7.591-4	3.185-3
2.208-3	2.211-3	2.323-3	2.344-0	8.408-0	6.512-3	7.378-4	3.197-3
2.561-3	2.235-3	2.347-3	2.226-0	8.320-0	6.152-3	7.146-4	3.213-3
2.940-3	2.258-3	2.372-3	2.104-0	8.235-0	5.787-3	6.903-4	3.229-3
3.345-3	2.279-3	2.394-3	1.984-0	8.159-0	5.355-3	6.641-4	3.241-3
3.777-3	2.301-3	2.417-3	1.867-0	8.082-0	4.950-3	6.362-4	3.257-3
4.234-3	2.341-3	2.459-3	1.750-0	7.945-0	4.470-3	5.739-4	3.320-3
5.763-3	2.400-3	2.521-3	1.753-0	7.749-0	3.835-3	4.707-4	3.431-3
7.597-3	2.463-3	2.587-3	1.555-0	7.551-0	3.271-3	3.599-4	3.594-3
1.025-2	2.523-3	2.650-3	1.376-0	7.373-0	2.754-3	2.552-4	3.987-3
1.511-2	2.670-3	2.804-3	1.197-0	7.197-0	2.312-3	2.450-4	3.632-3
2.091-2	2.826-3	2.968-3	1.058-0	7.020-0	2.045-3	2.340-4	3.334-3
2.646-2	2.973-3	3.123-3	0.928-0	6.858-0	1.838-3	2.227-4	3.062-3
3.267-2	3.115-3	3.272-3	0.813-0	6.697-0	1.691-3	2.101-4	2.873-3
3.953-2	3.258-3	3.422-3	0.712-0	6.540-0	1.584-3	1.962-4	2.769-3
4.704-2	3.404-3	3.576-3	0.626-0	6.465-0	1.504-3	1.964-4	2.693-3
5.761-2	3.599-3	3.780-3	0.517-0	6.169-0	1.418-3	1.566-4	2.822-3
7.002-2	3.836-3	4.029-3	0.451-0	6.050-0	1.355-3	1.319-4	2.916-3
8.322-2	4.113-3	4.321-3	0.423-0	5.522-0	1.311-3	1.040-4	3.172-3
9.691-2	4.435-3	4.659-3	0.419-0	5.194-0	1.290-3	8.576-5	3.469-3
1.307-1	4.819-3	5.062-3	0.3861-0	3.860-0	1.286-3	6.273-5	3.991-3
1.620-1	5.065-3	5.321-3	0.3673-0	3.672-0	1.287-3	5.982-5	3.476-3
2.075-1	5.292-3	5.559-3	0.352-0	3.515-0	1.286-3	7.779-5	2.894-3
2.417-1	5.569-3	5.849-3	0.341-0	3.340-0	1.285-3	7.509-5	3.255-3
2.710-1	5.819-3	6.112-3	0.3198-0	3.196-0	1.284-3	7.188-5	3.586-3
2.940-1	6.084-3	6.391-3	0.3058-0	3.057-0	1.283-3	6.801-5	3.987-3
3.345-1	6.356-3	6.677-3	0.2977-0	2.926-0	1.281-3	6.308-5	4.514-3
3.777-1	6.580-3	6.911-3	0.2868-0	2.827-0	1.280-3	5.803-5	5.076-3
4.234-1	6.807-3	7.151-3	0.2805-0	2.859-0	1.281-3	5.282-5	5.705-3
5.123-1	7.314-3	7.673-3	0.2631-0	2.631-0	1.282-3	4.050-5	6.842-3
6.325-1	8.363-3	8.892-3	0.2255-0	2.135-0	0.894-3	3.002-5	1.336-1

ATOMIC WEIGHT 1.0033		DENSITY 1.2437 GRAMS/CC						
ENERGY MEV	MFP (CM)	CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
		TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL LOCAL	
0.020	1.063	1.148	1.750	0.1736	0.1456	2.010	1.087	1.086
0.030	1.209	1.376	1.559	0.1527	0.1148	1.255	1.179	1.178
0.050	1.625	1.108	2.085	0.2080	0.5227	1	1.271	1.271
0.100	1.113	1.361	1.671	0.1635	0.3613	2	1.785	1.785
0.148	1.947	3.914	2.341	0.2172	1.691	1	2.879	2.879
0.200	1.887	3.000	2.094	0.2094	4.515	2	2.277	2.277
0.300	1.930	3.976	2.661	1.814	1.011	1	2.992	2.992
0.400	1.183	1.204	1.733	1.516	5.633	2	3.074	3.074
0.500	1.168	1.249	1.593	1.459	1.311	1	4.112	4.112
0.600	1.321	1.423	1.406	0.236	1.01	1	4.414	4.414
0.700	1.237	1.314	1.501	0.257	2.45	1	6.224	6.224
0.800	1.087	1.265	1.696	0.391	3.03	1	7.116	7.116
0.900	1.161	1.224	1.673	1.227	3.735	2	8.567	8.567
1.000	1.086	1.057	1.750	1.589	3.617	3	1.098	1.093
1.100	1.795	1.111	1.900	1.483	4.113	5.140	1.170	1.164
1.200	1.232	1.157	2.252	1.621	4.457	1	1.212	1.203
1.300	1.145	1.062	1.624	1.245	3.670	1.270	1.342	1.319
1.400	1.726	2.167	1.777	0.730	2.927	2.090	1.717	1.653
1.500	1.311	1.622	1.420	1.152	2.337	1.086	1.579	1.503
1.600	1.283	1.511	1.443	1.187	2.999	1.622	1.346	1.268
1.650	1.271	1.665	1.257	1.096	1.891	7.147	1.629	1.485
1.700	1.237	1.619	1.344	1.151	1.836	9.953	1.522	1.234
1.800	1.427	1.865	1.304	1.691	1.814	1.341	1.512	1.309
1.900	1.524	1.924	1.221	1.673	1.886	1.152	1.208	1.147
2.000	1.232	1.164	1.122	1.122	2.004	1.877	1.231	1.062
2.100	1.258	1.569	1.481	1.668	2.129	1.991	1.304	1.624
2.200	1.361	1.764	1.347	1.315	2.161	1.996	1.534	1.781
2.300	1.466	2.052	1.252	1.697	1.957	1.869	1.325	1.912
2.400	1.62	2.343	1.273	1.955	1.794	1.660	1.120	1.784
2.500	1.140	1.984	1.295	1.955	1.776	2.018	1.020	1.849
2.600	1.335	1.888	1.313	1.656	1.874	2.193	1.120	1.877
2.700	1.303	1.871	1.298	1.846	1.234	2.405	1.567	1.955
2.800	1.349	1.965	1.384	1.909	2.164	2.623	1.733	2.123
2.900	1.345	1.976	1.332	1.747	2.237	2.849	1.999	2.236
3.000	1.267	1.883	1.468	1.924	2.276	3.082	1.750	2.250
3.100	1.192	1.855	1.560	1.932	2.291	3.383	1.643	2.251
3.200	1.176	1.842	1.562	1.972	2.281	3.795	1.542	2.336
3.300	1.173	1.817	1.587	1.960	2.250	4.019	1.448	2.420
3.400	1.171	1.818	1.590	1.930	2.213	4.087	1.374	2.365
3.500	1.163	1.814	1.582	1.900	2.185	4.137	1.316	2.506
3.600	1.168	1.808	1.593	1.900	2.152	4.178	1.264	2.537
3.700	1.168	1.807	1.593	1.900	2.117	4.216	1.211	2.567
3.800	1.167	1.807	1.594	1.900	2.067	4.270	1.135	2.606
3.900	1.171	1.837	1.589	1.930	2.000	4.287	1.021	2.644
4.000	1.176	1.914	1.562	1.900	1.927	4.294	1.879	2.674
4.100	1.180	2.225	1.776	1.900	1.844	4.320	1.737	2.694
4.200	1.185	2.261	1.570	1.900	1.794	4.348	1.585	2.704
4.300	1.190	2.294	1.563	1.900	1.655	4.375	1.340	2.718
4.400	1.194	2.213	1.558	1.900	1.558	4.425	1.247	2.745
4.500	1.198	2.347	1.554	1.900	1.413	4.522	1.099	2.776
2.000								
RESONANCE INTEGRALS		1.207	2.1119	2.1472	0.3644	5.918	1	
MAXWELLIAN AVERAGES		1.602	1.1030	1.1716	0	1.457	1	
1/E AVERAGES		6.896	6.793	0.9410	2.082	2.391	2	
FISSION AVERAGES		1.987	1.051	1.276	1.8449	3.083	2	
FUSION AVERAGES		1.592	0.9600	1.2173	1.1444	1.303	1	

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ENDL '75 Group Neutron Constants

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 1.59954				DENSITY 1.4286-3 GRAMS/CC						
ENERGY		MFP (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT		AL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	5.025-3	5.245-3	3	0	3.700-0	0	0	0	3.646-10	3.646-10
5.227-9	5.025-3	5.245-3	3	0	3.700-0	0	0	0	1.458-9	1.458-9
2.091-8	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.990-9	2.990-9
3.267-8	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	4.448-9	4.448-9
4.704-8	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	7.268-9	7.268-9
8.322-8	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.194-8	1.194-8
1.307-7	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.779-8	1.779-8
1.882-7	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.479-8	2.479-8
2.561-7	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	3.296-8	3.296-8
3.345-7	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	4.229-8	4.229-8
4.234-7	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	5.221-8	5.221-8
5.127-7	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	7.059-8	7.059-8
7.527-7	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.076-7	1.076-7
1.176-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.499-7	1.499-7
1.511-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.010-7	2.010-7
2.091-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.696-7	2.696-7
2.741-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	3.501-7	3.501-7
3.533-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	4.597-7	4.597-7
4.704-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	5.782-7	5.782-7
6.658-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	9.616-7	9.616-7
6.737-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	8.402-7	8.402-7
9.222-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.001-6	1.001-6
9.620-6	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.151-6	1.151-6
1.101-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.344-6	1.344-6
1.307-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.594-6	1.594-6
1.468-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.702-6	1.702-6
1.581-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.863-6	1.863-6
1.758-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.031-6	2.031-6
1.882-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.208-6	2.208-6
2.075-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.428-6	2.428-6
2.277-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.619-6	2.619-6
2.417-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.778-6	2.778-6
2.561-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	2.941-6	2.941-6
2.710-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	3.109-6	3.109-6
3.862-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	3.248-6	3.248-6
2.940-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	3.370-6	3.370-6
3.099-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	3.596-6	3.596-6
3.345-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	3.876-6	3.876-6
3.601-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	4.166-6	4.166-6
3.866-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	4.416-6	4.416-6
4.048-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	4.621-6	4.621-6
4.234-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	4.778-6	4.778-6
4.389-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	4.982-6	4.982-6
4.619-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	5.209-6	5.209-6
4.717-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	5.377-6	5.377-6
4.918-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	5.607-6	5.607-6
5.123-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	5.831-6	5.831-6
5.232-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	6.133-6	6.133-6
5.654-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	6.370-6	6.370-6
5.763-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	6.618-6	6.618-6
6.097-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	6.931-6	6.931-6
6.325-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	7.188-6	7.188-6
6.557-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	7.383-6	7.383-6
6.674-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	7.649-6	7.649-6
7.034-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	7.917-6	7.917-6
7.155-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	8.193-6	8.193-6
7.527-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	8.541-6	8.541-6
7.780-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	8.754-6	8.754-6
7.908-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	8.970-6	8.970-6
8.167-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	9.262-6	9.262-6
8.431-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	9.634-6	9.634-6
8.834-5	5.025-3	5.245-3	3	3.700-0	3.700-0	0	0	0	1.001-5	1.001-5

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ATOMIC WEIGHT 1.5995 + 1				DENSITY 1.4266 - 3 GRAMS/CC					
ENERGY	MFP (CM)		CROSS SECTION (BARN)				ENERGY DEPOSITION (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	5.025+3	5.245+3	3.700+0	3.700+0				1.032-5	1.032-5
9.386-5	5.025+3	5.245+3	3.700+0	3.700+0				1.063-5	1.063-5
9.668-5	5.025+3	5.245+3	3.700+0	3.700+0				1.087-5	1.087-5
9.811-5	5.025+3	5.245+3	3.700+0	3.700+0				1.119-5	1.119-5
1.025-4	5.025+3	5.245+3	3.700+0	3.700+0				1.185-5	1.185-5
1.099-4	5.025+3	5.245+3	3.700+0	3.700+0				1.270-5	1.270-5
1.176-4	5.025+3	5.245+3	3.700+0	3.700+0				1.357-5	1.357-5
1.256-4	5.025+3	5.245+3	3.700+0	3.700+0				1.447-5	1.447-5
1.339-4	5.025+3	5.245+3	3.700+0	3.700+0				1.531-5	1.531-5
1.406-4	5.025+3	5.245+3	3.700+0	3.700+0				1.627-5	1.627-5
1.511-4	5.025+3	5.245+3	3.700+0	3.700+0				1.736-5	1.736-5
1.601-4	5.025+3	5.245+3	3.700+0	3.700+0				1.838-5	1.838-5
1.694-4	5.025+3	5.245+3	3.700+0	3.700+0				1.943-5	1.943-5
1.789-4	5.025+3	5.245+3	3.700+0	3.700+0				2.051-5	2.051-5
1.887-4	5.025+3	5.245+3	3.700+0	3.700+0				2.162-5	2.162-5
1.988-4	5.025+3	5.245+3	3.700+0	3.700+0				2.276-5	2.276-5
2.091-4	5.025+3	5.245+3	3.700+0	3.700+0				2.696-5	2.696-5
2.741-4	5.025+3	5.245+3	3.700+0	3.700+0				3.352-5	3.352-5
3.267-4	5.025+3	5.245+3	3.700+0	3.700+0				3.949-5	3.949-5
3.811-4	5.025+3	5.245+3	3.700+0	3.700+0				4.751-5	4.751-5
4.704-4	5.025+3	5.245+3	3.700+0	3.700+0				5.410-5	5.410-5
4.991-4	5.025+3	5.245+3	3.700+0	3.700+0				5.942-5	5.942-5
5.658-4	5.025+3	5.245+3	3.700+0	3.700+0				6.529-5	6.529-5
6.042-4	5.025+3	5.245+3	3.700+0	3.700+0				6.924-5	6.924-5
6.367-4	5.025+3	5.245+3	3.700+0	3.700+0				7.545-5	7.545-5
7.156-4	5.025+3	5.245+3	3.700+0	3.700+0				8.636-5	8.636-5
8.322-4	5.025+3	5.245+3	3.700+0	3.700+0				9.764-5	9.764-5
9.177-4	5.025+3	5.245+3	3.700+0	3.700+0				1.103-4	1.103-4
1.058-3	5.025+3	5.245+3	3.700+0	3.700+0				1.320-4	1.320-4
1.307-3	5.025+3	5.245+3	3.700+0	3.700+0				1.612-4	1.612-4
1.581-3	5.025+3	5.245+3	3.700+0	3.700+0				1.932-4	1.932-4
1.882-3	5.025+3	5.245+3	3.700+0	3.700+0				2.282-4	2.282-4
2.208-3	5.025+3	5.245+3	3.700+0	3.700+0				2.661-4	2.661-4
2.561-3	5.025+3	5.245+3	3.700+0	3.700+0				3.070-4	3.070-4
2.940-3	5.025+3	5.245+3	3.700+0	3.700+0				3.507-4	3.507-4
3.345-3	5.025+3	5.245+3	3.700+0	3.700+0				3.974-4	3.974-4
3.777-3	5.025+3	5.245+3	3.700+0	3.700+0				4.470-4	4.470-4
4.234-3	5.025+3	5.245+3	3.700+0	3.700+0				5.578-4	5.578-4
5.763-3	5.025+3	5.245+3	3.700+0	3.700+0				7.416-4	7.416-4
7.527-3	5.025+3	5.245+3	3.700+0	3.700+0				9.917-4	9.917-4
1.025-2	5.025+3	5.245+3	3.700+0	3.700+0				1.415-3	1.415-3
1.511-2	5.025+3	5.245+3	3.700+0	3.700+0				2.010-3	2.010-3
2.091-2	5.025+3	5.245+3	3.700+0	3.700+0				2.643-3	2.643-3
2.645-2	5.025+3	5.245+3	3.700+0	3.700+0				3.300-3	3.300-3
3.267-2	5.025+3	5.245+3	3.700+0	3.700+0				4.029-3	4.029-3
3.953-2	5.025+3	5.245+3	3.700+0	3.700+0				4.831-3	4.831-3
4.704-2	5.025+3	5.245+3	3.700+0	3.700+0				5.840-3	5.840-3
5.761-2	5.025+3	5.245+3	3.700+0	3.700+0				7.122-3	7.122-3
7.052-2	5.025+3	5.245+3	3.700+0	3.700+0				8.551-3	8.551-3
8.322-2	5.025+3	5.245+3	3.700+0	3.700+0				1.016-2	1.016-2
9.891-2	5.025+3	5.245+3	3.700+0	3.700+0				1.281-2	1.281-2
1.307-1	5.025+3	5.245+3	3.700+0	3.700+0				1.757-2	1.757-2
1.820-1	5.025+3	5.096+3	3.700+0	3.700+0				2.279-2	2.279-2
2.075-1	5.025+3	4.932+3	3.700+0	3.700+0				2.720-2	2.720-2
2.417-1	5.025+3	4.728+3	3.700+0	3.700+0				3.220-2	3.220-2
2.710-1	5.025+3	4.567+3	3.700+0	3.700+0				3.657-2	3.657-2
2.940-1	5.020+3	4.443+3	3.703+0	3.703+0				4.212-2	4.212-2
3.345-1	4.402+3	3.743+3	4.224+0	4.224+0				4.909-2	4.909-2
3.771-1	2.728+3	2.269+3	6.815+0	6.815+0				5.025-2	5.025-2
4.234-1	1.898+3	1.957+3	9.795+0	9.795+0				3.896-2	3.896-2
5.123-1	1.207+3	8.865+3	3.570+0	3.570+0				4.429-2	4.429-2
6.325-1	6.143+3	6.329+3	3.026+0	3.026+0				6.571-2	6.571-2

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ATOMIC WEIGHT 1.5995+1		DENSITY 1.4286-3 GRAMS/CC									
ENERGY MEV	MFP (CM)		CROSS SECTION (BARNs)						ENERGY DEPOSIT (MEV)		
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
7.527-1	6.241+3	7.183+3	2.979+0	2.979+0				8.551-2	8.551-2		
6.834-1	3.242+3	3.512+3	5.735+0	5.735+0				1.069-1	1.069-1		
1.025+0	4.486+3	4.561+3	4.145+0	4.145+0				1.257-1	1.257-1		
1.176+0	4.866+3	4.601+3	3.821+0	3.821+0				1.491-1	1.491-1		
1.338+0	7.294+3	1.221+4	2.563+0	2.563+0				1.518-1	1.518-1		
1.511+0	6.690+3	9.910+3	2.139+0	2.139+0				1.642-1	1.642-1		
1.694+0	9.442+3	1.030+4	1.969+0	1.969+0				1.845-1	1.845-1		
1.687+0	9.595+3	1.095+4	1.938+0	1.938+0				2.007-1	2.007-1		
2.091+0	1.552+4	1.774+4	1.198+0	1.198+0				2.266-1	2.266-1		
2.305+0	2.910+4	3.246+4	6.388+0	6.387+1	1.107-4			2.516-1	2.516-1		
2.530+0	1.592+4	1.809+4	1.168+0	1.167+0	4.392-4			2.666-1	2.666-1		
2.741+0	1.519+4	1.758+4	1.124+0	1.123+0	8.110-4			2.861-1	2.859-1		
3.011+0	9.136+3	1.080+4	2.135+0	2.033+0	2.388-3			3.142-1	3.137-1		
3.267+0	5.858+3	6.795+3	3.169+0	3.164+0	5.002-3			3.108-1	3.100-1		
3.533+0	5.800+3	8.192+3	3.205+0	3.198+0	7.720-3			3.033-1	3.018-1		
3.811+0	8.720+3	1.217+4	2.132+0	2.108+0	2.453-2			3.706-1	3.614-1		
4.062+0	9.390+3	1.135+4	1.980+0	1.898+0	8.167-2			4.731-1	4.353-1		
4.396+0	1.209+4	1.447+4	1.539+0	1.482+0	5.758-2			5.092-1	4.688-1		
4.704+0	1.412+4	1.676+4	1.316+0	1.264+0	5.242-2			5.586-1	5.096-1		
4.991+0	1.232+4	1.447+4	1.510+0	1.433+0	7.640-2			6.008-1	5.330-1		
5.353+0	1.394+4	1.645+4	1.334+0	1.324+0	9.989-3	4.179-6		4.965-1	4.751-1		
5.658+0	1.317+4	1.920+4	1.411+0	1.378+0	3.360-2	0.269+4		5.657-1	5.459-1		
6.042+0	1.760+4	2.188+4	1.045+0	1.034+0	1.020-2	2.083+3		6.410-1	6.223-1		
6.367+0	1.836+4	2.071+4	1.013+0	0.931-1	1.129-1	6.607-3		1.348-1	8.585-1		
6.737+0	1.766+4	1.905+4	1.053+0	0.841-1	8.401-2	8.465-2	5.669-2	1.521+0	8.503-1		
7.156+0	1.337+4	1.447+4	1.391+0	1.117+0	9.585-2	1.773-1	1.419-1	1.781+0	8.384-1		
7.548+0	1.514+4	1.707+4	1.228+0	0.930-1	6.039-2	2.363-1	2.179-1	2.105+0	7.804-1		
7.910+0	1.730+4	1.998+4	1.075+0	7.233-1	6.406-2	2.876-1	2.770-1	2.647+0	7.977-1		
8.322+0	1.540+4	1.852+4	1.208+0	7.9-9-1	6.933-2	3.433-1	4.040-1	2.787+0	7.988-1		
8.787+0	1.536+4	1.917+4	1.209+0	7.444-1	8.021-2	3.824-1	3.912-1	3.075+0	8.251-1		
9.177+0	1.599+4	2.022+4	1.163+0	6.486-1	9.003-2	4.233-1	3.449-1	3.443+0	8.692-1		
9.665+0	1.439+4	1.907+4	1.292+0	7.163-1	9.219-2	4.831-1	3.616-1	3.433+0	9.017-1		
1.012+1	1.440+4	1.949+4	1.291+0	6.4-7-1	9.449-2	5.121-1	4.213-1	3.574+0	9.399-1		
1.056+1	1.467+4	1.952+4	1.267+0	6.154-1	1.021-1	5.498-1	3.665-1	3.888+0	1.019+0		
1.101+1	1.169+4	1.655+4	1.591+0	8.833-1	1.169-1	5.905-1	3.564-1	3.442+0	1.015+0		
1.155+1	1.114+4	1.591+4	1.668+0	9.079-1	1.663-1	5.942-1	3.398-1	3.404+0	1.084+0		
1.199+1	1.202+4	1.715+4	1.546+0	8.125-1	1.474-1	5.856-1	3.517-1	3.700+0	1.191+0		
1.250+1	1.148+4	1.704+4	1.619+0	9.013-1	1.650-1	5.526-1	3.872-1	3.651+0	1.267+0		
1.307+1	1.159+4	1.758+4	1.604+0	9.036-1	1.902-1	5.097-1	4.305-1	3.735+0	1.374+0		
1.354+1	1.134+4	1.769+4	1.639+0	9.448-1	2.041-1	4.869-1	4.333-1	3.712+0	1.437+0		
1.386+1	1.129+4	1.785+4	1.647+0	9.603-1	2.112-1	4.759-1	4.333-1	3.756+0	1.492+0		
1.413+1	1.109+4	1.769+4	1.677+0	9.808-1	2.254-1	4.707-1	4.322-1	3.843+0	1.552+0		
1.441+1	1.080+4	1.741+4	1.722+0	1.014+0	2.411-1	4.663-1	4.315-1	3.918+0	1.607+0		
1.468+1	1.052+4	1.712+4	1.767+0	1.046+0	2.608-1	4.603-1	4.314-1	4.045+0	1.666+0		
1.519+1	1.127+4	1.804+4	1.650+0	9.349-1	2.609-1	4.946-1	4.245-1	4.181+0	1.836+0		
1.575+1	1.173+4	1.877+4	1.584+0	8.784-1	2.564-1	4.495-1	4.175-1	4.679+0	1.948+0		
1.633+1	1.194+4	1.924+4	1.557+0	8.602-1	2.493-1	4.476-1	4.108-1	4.648+0	2.020+0		
1.692+1	1.137+4	1.911+4	1.635+0	9.495-1	2.332-1	4.521-1	4.034-1	4.708+0	1.961+0		
1.752+1	1.158+4	1.964+4	1.605+0	9.210-1	2.184-1	4.577-1	3.959-1	4.847+0	1.983+0		
1.813+1	1.168+4	1.994+4	1.592+0	9.129-1	2.055-1	4.667-1	3.881-1	5.030+0	2.013+0		
1.875+1	1.119+4	1.963+4	1.662+0	9.864-1	1.932-1	4.825-1	3.765-1	5.115+0	1.994+0		
2.000+1											
RESONANCE INTEGRALS			6.090+1	6.024+1	1.931-1	1.633-1	3.798-1				
MAXWELLIAN AVERAGES			3.700+0	3.700+0							
1/E AVERAGES			3.479+0	3.441+0	1.103-2	2.646-2	2.170-2				
FISSION AVERAGES			2.869+0	2.894+0	8.639-3	5.918-3	5.198-3				
FUSION AVERAGES			1.665+0	9.695+1	2.179-1	4.777-1	4.328-1				

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ATOMIC WEIGHT 1.899841		DENSITY 1.14000 GRAMS/CC						
ENERGY		TEMP (°C)		CROSS SECTION (BARN)		ENERGY DEPOSITION (eV)		
ME	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORBIN REMAINDER GAM-PROD.	TOTAL	LOCAL	
1.527	9.6970	7.1200	4.3290	4.0000	2.824	5.026	4.626	8.189
1.527	9.6994	7.1460	4.0140	4.0000	1.411	2.512	2.320	4.108
1.527	9.6994	7.1550	4.0090	4.0000	9.353	1.665	1.540	2.728
1.527	9.6994	7.1580	4.0080	4.0000	7.620	1.356	1.295	2.225
1.527	9.6994	7.1610	4.0060	4.0000	5.994	1.067	9.875	1.754
1.527	9.6910	7.1630	4.0050	4.0000	4.671	8.315	7.690	1.373
1.527	9.6910	7.1650	4.0040	4.0000	3.826	6.811	6.307	1.132
1.527	9.6910	7.1660	4.0030	4.0000	3.235	5.759	5.334	9.655
1.527	9.6910	7.1670	4.0030	4.0000	2.804	4.992	4.624	8.669
1.527	9.6910	7.1680	4.0020	4.0000	2.475	4.405	4.081	7.581
1.527	9.6910	7.1680	4.0020	4.0000	2.226	3.962	3.671	6.947
1.527	9.6910	7.1690	4.0020	4.0000	1.921	3.420	3.169	6.216
1.527	9.6910	7.1690	4.0020	4.0000	1.557	2.732	2.569	5.472
1.527	9.6910	7.1700	4.0010	4.0000	1.314	2.339	2.168	5.125
1.511	6.6916	7.1700	4.0010	4.0000	1.136	2.022	1.874	5.043
1.511	6.6916	7.1700	4.0010	4.0000	9.802	1.745	1.617	5.177
1.511	6.6916	7.1710	4.0010	4.0000	8.600	1.531	1.419	5.517
1.511	6.6916	7.1710	4.0010	4.0000	7.511	1.337	1.240	6.138
1.511	6.6916	7.1710	4.0010	4.0000	6.664	1.190	1.123	6.913
1.511	6.6916	7.1710	4.0000	4.0000	6.110	1.088	1.009	7.718
1.511	6.6916	7.1720	4.0000	4.0000	5.548	9.876	9.161	8.828
1.511	6.6916	7.1720	4.0000	4.0000	5.085	9.051	8.398	1.007
1.511	6.6916	7.1720	4.0000	4.0000	4.734	8.427	7.821	1.126
1.511	6.6916	7.1720	4.0000	4.0000	4.391	7.816	7.256	1.281
1.511	6.6916	7.1720	4.0000	4.0000	4.098	7.294	6.775	1.448
1.511	6.6916	7.1720	4.0000	4.0000	3.905	6.951	6.458	1.573
1.511	6.6916	7.1720	4.0000	4.0000	3.736	6.650	6.180	1.707
1.511	6.6916	7.1720	4.0000	3.9990	3.586	6.383	5.934	1.846
1.511	6.6916	7.1730	4.0000	3.9990	3.433	6.110	5.683	1.993
1.511	6.6916	7.1730	4.0000	3.9990	3.283	5.844	5.439	2.178
1.511	6.6916	7.1730	4.0000	3.9990	3.162	5.629	5.241	2.338
1.511	6.6916	7.1730	4.0000	3.9990	3.063	5.453	5.079	2.471
1.511	6.6916	7.1730	4.0000	3.9990	2.984	5.311	4.949	2.609
1.511	6.6916	7.1730	3.9990	3.9990	2.908	5.176	4.826	2.751
1.511	6.6916	7.1730	3.9990	3.9990	2.850	5.074	4.751	2.859
1.511	6.6916	7.1730	3.9990	3.9990	2.791	4.968	4.635	2.971
1.511	6.6916	7.1730	3.9990	3.9990	2.699	4.805	4.485	3.162
1.511	6.6916	7.1730	3.9990	3.9990	2.609	4.644	4.339	3.399
1.511	6.6916	7.1740	3.9990	3.9990	2.516	4.479	4.188	3.645
1.511	6.6916	7.1740	3.9990	3.9990	2.438	4.340	4.061	3.857
1.511	6.6916	7.1740	3.9990	3.9990	2.389	4.250	3.980	4.031
1.511	6.6916	7.1740	3.9990	3.9990	2.352	4.187	3.923	4.164
1.511	6.6916	7.1740	3.9990	3.9990	2.304	4.101	3.845	4.247
1.511	6.6916	7.1740	3.9990	3.9990	2.255	4.014	3.766	4.531
1.511	6.6916	7.1740	3.9990	3.9990	2.217	3.946	3.705	4.674
1.511	6.6916	7.1740	3.9990	3.9990	2.168	3.859	3.626	4.866
1.511	6.6916	7.1740	3.9990	3.9990	2.129	3.790	3.555	5.063
1.511	6.6916	7.1750	3.9990	3.9990	2.082	3.706	3.489	5.515
1.511	6.6916	7.1750	3.9990	3.9990	2.043	3.637	3.427	5.520
1.511	6.6916	7.1750	3.9990	3.9990	2.004	3.567	3.364	5.731
1.511	6.6916	7.1750	3.9990	3.9990	1.954	3.477	3.284	5.998
1.511	6.6916	7.1750	3.9990	3.9990	1.919	3.416	3.224	6.217
1.511	6.6916	7.1750	3.9990	3.9990	1.857	3.377	3.195	6.364
1.511	6.6916	7.1750	3.9990	3.9990	1.867	3.323	3.177	6.611
1.511	6.6916	7.1760	3.9990	3.9990	1.836	3.268	3.099	6.840
1.511	6.6916	7.1760	3.9990	3.9990	1.805	3.213	3.050	7.075
1.511	6.6916	7.1760	3.9990	3.9990	1.765	3.142	2.987	7.372
1.511	6.6916	7.1760	3.9990	3.9990	1.741	3.099	2.948	7.556
1.511	6.6916	7.1760	3.9990	3.9990	1.720	3.052	2.910	7.738
1.511	6.6916	7.1760	3.9990	3.9990	1.696	3.020	2.880	7.988
1.511	6.6916	7.1760	3.9990	3.9990	1.666	2.966	2.834	8.306
1.511	6.6916	7.1770	3.9990	3.9990	1.636	2.912	2.787	8.628

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ENDL 175 Group Neutron Constants

9-F -19

ATOMIC WEIGHT 1.89984		DENSITY 1.14000 G/CM ³							
ENERGY	MF (CM)	CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)			
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.100-5	6.923+0	7.177+0	3.997+0	3.997+0	1.611-4	2.868-4	2.799-4	8.892-6	
9.386-5	6.923+0	7.177+0	3.997+0	3.997+0	1.586-4	2.823-4	2.710-4	9.159-6	
9.668-5	6.923+0	7.177+0	3.997+0	3.997+0	1.567-4	2.789-4	2.680-4	9.361-6	
9.811-5	6.924+0	7.178+0	3.997+0	3.997+0	1.543-4	2.747-4	2.645-4	9.637-6	
1.000-4	6.933+0	7.187+0	3.992+0	3.992+0	1.509-4	2.687-4	2.567-4	1.020-5	
1.099+4	6.944+0	7.199+0	3.985+0	3.985+0	1.467-4	2.612-4	2.539-4	1.082-5	
1.176+4	6.957+0	7.212+0	3.978+0	3.978+0	1.424-4	2.535-4	2.479-4	1.167-5	
1.256+4	6.969+0	7.225+0	3.971+0	3.971+0	1.385-4	2.466-4	2.427-4	1.245-5	
1.338+4	6.981+0	7.237+0	3.964+0	3.964+0	1.355-4	2.413-4	2.388-4	1.316-5	
1.406+4	6.995+0	7.251+0	3.956+0	3.956+0	1.321-4	2.352-4	2.343-4	1.399-5	
1.511+4	7.010+0	7.267+0	3.948+0	3.947+0	1.283-4	2.283-4	2.293-4	1.492-5	
1.601+4	7.025+0	7.282+0	3.939+0	3.939+0	1.253-4	2.230-4	2.257-4	1.579-5	
1.694+4	7.040+0	7.298+0	3.931+0	3.931+0	1.226-4	2.182-4	2.225-4	1.669-5	
1.789+4	7.055+0	7.314+0	3.922+0	3.922+0	1.198-4	2.133-4	2.192-4	1.761-5	
1.887+4	7.071+0	7.331+0	3.914+0	3.913+0	1.170-4	2.082-4	2.158-4	1.856-5	
1.999+4	7.088+0	7.348+0	3.904+0	3.904+0	1.144-4	2.037-4	2.129-4	1.954-5	
2.091+4	7.109+0	7.412+0	3.871+0	3.871+0	1.068-4	1.902-4	2.053+0	2.313-5	
2.7+4	7.248+0	7.514+0	3.818+0	3.818+0	9.736-5	1.733-4	1.970+0	2.875-5	
3.267+4	7.3+0	7.609+0	3.770+0	3.770+0	9.092-5	1.619-4	1.830+0	3.387-5	
3.811+4	7.4+0	7.741+0	3.706+0	3.706+0	8.408-5	1.497-4	1.904+0	4.073-5	
4.704+4	7.5+0	7.852+0	3.654+0	3.653+0	7.947-5	1.415-4	1.899+0	4.638-5	
4.991+4	7.664+0	7.945+0	3.611+0	3.611+0	7.645-5	1.361-4	1.907+0	5.093-5	
5.658+4	7.765+0	8.050+0	3.564+0	3.564+0	7.352-5	1.309-4	1.921+0	5.597-5	
6.042+4	7.834+0	8.122+0	3.532+0	3.532+0	7.155-5	1.274-4	1.930+0	5.936-5	
6.367+4	7.933+0	8.230+0	3.486+0	3.486+0	6.914-5	1.231-4	1.956+0	6.467-5	
7.156+4	7.979+0	8.272+0	3.469+0	3.469+0	6.529-5	1.162-4	1.982+0	7.403-5	
8.322+4	7.9+0	8.271+0	3.468+0	3.468+0	6.206-5	1.105-4	2.018+0	8.369-5	
9.1+4	7.978+0	8.271+0	3.469+0	3.469+0	5.900-5	1.050+0	2.068+0	9.451-5	
1.058+4	7.978+0	8.270+0	3.469+0	3.469+0	5.646-5	1.005+0	2.205+0	1.131-4	
1.307+4	7.977+0	8.270+0	3.469+0	3.469+0	5.381-5	9.580-5	2.405+0	1.381-4	
1.581+4	7.976+0	8.269+0	3.466+0	3.469+0	5.170-5	9.205-5	2.639+0	1.656-4	
1.882+4	7.975+0	8.268+0	3.472+0	3.470+0	4.987-5	8.879-5	2.904+0	1.926-4	
2.2+4	7.975+0	8.267+0	3.470+0	3.470+0	4.931-5	8.780-5	3.218+0	2.281-4	
2.561+4	7.974+0	8.266+0	3.471+0	3.471+0	4.885-5	8.698-5	3.559+0	2.631-4	
2.90+4	7.973+0	8.265+0	3.471+0	3.471+0	4.873-5	8.679-5	3.932+0	3.006-4	
3.345+4	7.971+0	8.264+0	3.472+0	3.471+0	4.929-5	8.777-5	4.342+0	3.405-4	
3.777+4	7.970+0	8.263+0	3.472+0	3.472+0	4.997-5	8.900-5	4.780+0	3.830-4	
4.234+4	7.969+0	8.260+0	3.473+0	3.473+0	5.305-5	9.450-5	5.788+0	4.780-4	
5.763+4	7.963+0	8.255+0	3.475+0	3.475+0	6.102-5	1.087+0	7.514+0	6.355-4	
7.527+4	7.957+0	8.249+0	3.478+0	3.478+0	8.169-5	1.456+0	1.005+0	8.049-4	
1.025+4	7.949+0	8.241+0	3.482+0	3.481+0	1.042-3	1.658+0	3.190+0	1.215-3	
1.511+4	7.954+0	8.266+0	3.479+0	3.474+0	5.599-3	9.973+0	1.234+0	1.739-3	
2.091+4	7.931+0	8.251+0	3.827+0	3.823+0	4.100-3	7.324+0	9.362+0	2.292-3	
2.666+4	7.919+0	8.230+0	1.144+0	1.140+0	1.3595-2	6.424+0	2.318+0	2.733-3	
3.267+4	7.910+0	8.211+0	4.413+0	4.413+0	4.419+0	7.906+0	4.258+0	3.404-3	
3.953+4	6.349+0	6.690+0	4.359+0	4.351+0	8.168-3	1.463+0	1.655+0	4.186-3	
4.704+4	2.101+0	2.223+0	1.37+0	1.316+0	8.255-3	1.480+0	8.886+0	4.749-3	
5.761+4	9.421+0	8.965+0	3.286+0	3.286+0	3.587-4	6.447+0	6.632+0	5.912-3	
7.002+4	7.147+0	7.662+0	3.872+0	3.872+0	5.968-4	3	8.126+0	7.108-3	
8.322+4	2.103+0	2.272+0	1.316+0	1.315+0	1.3403-3	1	1.024+0	8.535-3	
9.891+4	2.818+0	3.069+0	9.821+0	9.714+0	1.716-3	1.051-1	7.12+0	1.825+0	9.917-3
1.337+4	6.130+0	7.018+0	4.304+0	3.618+0	6.626+0	6.895+0	3.153+0	1.302+0	
1.820+4	6.364+0	7.614+0	4.007+0	2.939+0	1.478+0	1.722+0	4.535+0	1.570+0	
2.075+4	5.358+0	5.877+0	5.165+0	3.252+0	2.110+0	4.913+0	3.128+0	1.792+0	
2.417+4	3.827+0	4.155+0	7.231+0	3.602+0	1.895+0	3.628+0	4.300+0	2.022+0	
2.710+4	2.724+0	3.043+0	7.016+0	6.131+0	1.880+0	4.028+0	3.897+0	2.220+0	
2.940+4	3.304+0	3.742+0	8.375+0	5.254+0	3.286+0	3.121+0	3.301+0	2.453+0	
3.345+4	3.382+0	3.930+0	8.182+0	5.487+0	1.315+0	4.695+0	2.795+0	2.720+0	
3.777+4	3.752+0	3.921+0	8.484+0	5.384+0	4.366+0	3.100+0	3.146+0	2.005+0	
4.234+4	4.465+0	5.356+0	5.832+0	3.000+0	2.374+0	2.932+0	2.735+0	1.181+0	3.650+0
4.704+4	5.561+0	6.693+0	4.973+0	2.772+0	4.569+0	2.201+0	1.671+0	1.170+0	4.121+0
5.173+4	7.686+0	9.599+0	3.600+0	1.946+0	5.435+0	1.654+0	1.053+0	1.294+0	4.928+0

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 1.8998+1		CROSS SECTION (BARNS)					DENSITY 1.1400+0 GRAMS/CC		
ENERGY	MEV	HFP (CM)	CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
		TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
5.277-1	6.619+0	8.583+0	4.181+0	2.524+0	1.115-4	1.656+0	1.212+0	1.252+0	5.809-2
8.34-1	7.543+0	9.888+0	3.669+0	2.343+0	4.809-5	1.326+0	1.318+0	1.305+0	6.772-2
1.075+0	8.524+0	1.039+0	3.247+0	1.972+0	6.425-5	1.274+0	1.196+0	1.485+0	8.391-2
1.176+0	7.893+0	9.206+0	3.506+0	2.182+0	1.036-4	1.324+0	1.141+0	1.610+0	1.011-1
1.438+0	9.307+0	1.150+0	2.793+0	1.640+0	1.585-4	1.153+0	1.093+0	1.804+0	1.155-1
1.511+0	8.689+0	1.044+0	3.185+0	2.212+0	7.588-5	9.724+0	1.105+0	1.924+0	1.272-1
1.694+0	1.024+0	1.218+0	2.703+0	1.788+0	1.679+4	9.155+0	1.136+0	2.742+0	1.400-1
1.887+0	9.425+0	1.136+0	2.936+0	2.059+0	3.365+4	8.766+0	1.328+0	3.099+0	1.541-1
2.091+0	1.101+0	1.315+0	2.513+0	1.677+0	4.900+4	8.356+0	1.349+0	3.776+0	1.701-1
2.305+0	1.045+0	1.254+0	2.648+0	1.851+0	6.412+4	7.961+0	1.226+0	3.985+0	1.881-1
2.530+0	9.909+0	1.198+0	2.770+0	1.999+0	7.925+4	7.706+0	1.135+0	4.167+0	2.054-1
2.741+0	1.205+0	1.417+0	2.296+0	1.545+0	9.691+4	7.506+0	1.131+0	4.904+0	2.245-1
3.011+0	1.295+0	1.529+0	2.136+0	1.397+0	6.715+3	7.324+0	1.165+0	5.370+0	2.410-1
3.267+0	1.380+0	1.601+0	2.005+0	1.272+0	1.738+2	7.153+0	1.210+0	5.784+0	2.594-1
3.533+0	1.421+0	1.794+0	1.477+0	1.219+0	2.848+2	6.995+0	1.250+0	6.144+0	2.700-1
3.811+0	1.494+0	1.951+0	1.252+0	1.129+0	3.940+2	6.842+0	1.287+0	6.618+0	2.861-1
4.069+0	1.398+0	1.883+0	1.594+0	1.250+0	8.164+2	6.622+0	1.353+0	7.101+0	3.243-1
4.396+0	1.476+0	1.853+0	2.010+0	1.247+0	1.101+1	6.531+0	1.435+0	8.100+0	3.653-1
4.704+0	1.568+0	2.022+0	1.765+0	9.657+0	1.363+1	6.630+0	1.522+0	1.047+0	4.247-1
4.991+0	1.552+0	1.998+0	1.783+0	9.620+0	1.320+1	6.695+0	1.555+0	1.195+0	4.480-1
5.353+0	1.506+0	1.911+0	1.838+0	9.572+0	1.841+1	6.968+0	1.679+0	1.395+0	5.188-1
5.658+0	1.524+0	1.908+0	1.816+0	8.979+0	2.114+1	7.069+0	1.747+0	1.600+0	5.724-1
6.042+0	1.657+0	2.035+0	1.673+0	7.609+0	1.873+1	7.222+0	1.815+0	1.822+0	5.957-1
6.367+0	1.832+0	2.187+0	1.510+0	5.997+0	1.736+1	7.371+0	1.881+0	2.127+0	6.357-1
6.737+0	1.765+0	2.123+0	1.566+0	6.304+0	1.776+1	7.499+0	1.951+0	2.319+0	6.668-1
7.156+0	1.643+0	2.033+0	1.684+0	7.379+0	1.620+1	7.642+0	1.967+0	2.373+0	6.540-1
7.546+0	1.665+0	2.066+0	1.662+0	7.105+0	1.474+1	8.042+0	1.967+0	2.556+0	6.586-1
7.910+0	1.704+0	2.139+0	1.624+0	6.635+0	1.359+1	8.244+0	1.967+0	2.804+0	6.862-1
8.322+0	1.663+0	2.078+0	1.664+0	6.622+0	1.420+1	8.371+0	1.968+0	2.990+0	7.217-1
8.787+0	1.639+0	2.081+0	1.688+0	7.111+0	1.269+1	8.492+0	1.968+0	3.112+0	7.206-1
9.177+0	1.604+0	2.075+0	1.725+0	7.552+0	1.171+1	8.526+0	1.969+0	3.212+0	7.328-1
9.665+0	1.638+0	2.128+0	1.650+0	7.239+0	1.123+1	8.536+0	1.968+0	3.457+0	7.661-1
1.012+1	1.610+0	2.140+0	1.719+0	7.650+0	1.069+1	8.473+0	1.945+0	3.555+0	7.802-1
1.058+1	1.609+0	2.176+0	1.720+0	7.773+0	1.017+1	8.410+0	1.917+0	3.696+0	7.959-1
1.101+1	1.507+0	2.108+0	1.722+0	7.877+0	9.581+2	8.384+0	1.885+0	3.847+0	8.101-1
1.155+1	1.588+0	2.225+0	1.743+0	8.134+0	8.935+2	8.400+0	1.853+0	3.963+0	8.174-1
1.199+1	1.595+0	2.250+0	1.746+0	8.186+0	8.349+2	8.428+0	1.822+0	4.102+0	8.267-1
1.250+1	1.584+0	2.275+0	1.747+0	8.195+0	7.664+2	8.504+0	1.786+0	4.243+0	8.365-1
1.307+1	1.583+0	2.300+0	1.748+0	8.213+0	7.021+2	8.567+0	1.773+0	4.336+0	8.435-1
1.354+1	1.582+0	2.326+0	1.750+0	8.259+0	6.531+2	8.585+0	1.775+0	4.388+0	8.475-1
1.386+1	1.581+0	2.344+0	1.750+0	8.294+0	6.199+2	8.591+0	1.776+0	4.427+0	8.509-1
1.413+1	1.581+0	2.360+0	1.751+0	8.326+0	6.106+2	8.569+0	1.780+0	4.456+0	8.597-1
1.441+1	1.581+0	2.375+0	1.751+0	8.358+0	6.048+2	8.543+0	1.784+0	4.484+0	8.696-1
1.468+1	1.580+0	2.391+0	1.751+0	8.404+0	5.965+2	8.509+0	1.790+0	4.525+0	8.834-1
1.519+1	1.581+0	2.420+0	1.751+0	8.457+0	5.853+2	8.454+0	1.799+0	4.596+0	9.016-1
1.575+1	1.581+0	2.455+0	1.751+0	8.549+0	5.732+2	8.384+0	1.808+0	4.666+0	9.203-1
1.633+1	1.581+0	2.504+0	1.750+0	8.608+0	5.609+2	8.241+0	1.817+0	4.687+0	9.369-1
1.692+1	1.581+0	2.557+0	1.750+0	8.857+0	5.484+2	8.095+0	1.826+0	4.696+0	9.528-1
1.752+1	1.580+0	2.604+0	1.751+0	9.019+0	5.357+2	7.955+0	1.836+0	4.708+0	9.695-1
1.813+1	1.579+0	2.653+0	1.752+0	9.184+0	5.227+2	7.814+0	1.846+0	4.719+0	9.863-1
1.875+1	1.576+0	2.720+0	1.754+0	9.434+0	5.031+2	7.603+0	1.860+0	4.719+0	1.009+0
2.000+1									
RESONANCE INTEGRALS			7.208+0	1.6505+0	2.080+0	6.822+0	8.929+0		
MAXWELLIAN AVERAGES			4.009+0	4.000+0	8.511+0	3.1515+2	1.515+2		
1/E AVERAGES			4.118+0	3.716+0	1.188+2	3.897+0	5.101+0		
FISSION AVERAGES			3.421+0	2.189+0	1.935+2	1.212+0	1.426+0		
FUSION AVERAGES			1.750+0	0.302+0	6.283+2	8.571+0	1.778+0		

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ENDL 17% Group Neutron Constants

11-Na-23

11-20

11-21 Group Neutron Constants

11-Na-23

Barns

MeV/Collision

[illegible]

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ENDL 175 Group Neutron Constants

11-Na-23

ATOMIC WEIGHT	P.2990-1	DENSITY	9.7121-1	GRAMS/CC
ENERGY	MFPC (CM)	CROSS SECTION (BARN)	ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC
7.527-1	2.947-1	1.156-1	4.966-1	3.192-1
8.854-1	9.582-1	1.390-1	4.102-1	3.705-1
1.065-1	5.445-1	1.355-1	4.163-1	3.555-1
1.176-1	1.094-1	1.579-1	3.599-1	3.014-1
1.348-1	1.376-1	2.066-1	2.959-1	2.527-1
1.511-1	1.237-1	1.989-1	2.939-1	2.465-1
1.694-1	1.339-1	1.361-1	2.936-1	2.314-1
1.807-1	1.256-1	1.209-1	2.901-1	2.241-1
2.091-1	1.254-1	1.894-1	3.135-1	2.701-1
2.309-1	1.405-1	1.936-1	3.012-1	2.716-1
2.510-1	1.451-1	2.270-1	2.712-1	2.413-1
2.741-1	1.591-1	2.422-1	2.487-1	2.031-1
3.011-1	1.806-1	2.704-1	2.177-1	1.905-1
3.267-1	1.671-1	2.452-1	2.354-1	1.900-1
3.523-1	1.657-1	2.463-1	2.354-1	1.837-1
3.811-1	1.613-1	2.630-1	2.344-1	1.811-1
4.069-1	1.839-1	2.664-1	2.126-1	1.881-1
4.346-1	1.944-1	2.721-1	2.046-1	1.846-1
4.704-1	1.908-1	2.774-1	1.924-1	1.754-1
4.991-1	1.996-1	2.776-1	1.864-1	1.740-1
5.353-1	2.086-1	2.809-1	1.804-1	1.730-1
5.656-1	2.105-1	2.861-1	1.744-1	1.744-1
6.004-1	2.184-1	2.931-1	1.684-1	1.744-1
6.384-1	2.280-1	3.011-1	1.624-1	1.744-1
6.784-1	2.375-1	3.091-1	1.564-1	1.744-1
7.204-1	2.380-1	3.042-1	1.504-1	1.744-1
7.644-1	2.395-1	3.092-1	1.444-1	1.744-1
8.104-1	2.417-1	3.124-1	1.384-1	1.744-1
8.584-1	2.440-1	3.143-1	1.324-1	1.744-1
9.084-1	2.468-1	3.168-1	1.264-1	1.744-1
9.604-1	2.443-1	3.135-1	1.204-1	1.744-1
9.664-1	2.419-1	3.110-1	1.144-1	1.744-1
1.012-1	2.330-1	3.062-1	1.084-1	1.744-1
1.058-1	2.357-1	3.132-1	1.024-1	1.744-1
1.101-1	2.370-1	3.168-1	0.964-1	1.744-1
1.154-1	2.373-1	3.200-1	0.904-1	1.744-1
1.199-1	2.418-1	3.266-1	0.844-1	1.744-1
1.250-1	2.395-1	3.210-1	0.784-1	1.744-1
1.307-1	2.321-1	3.204-1	0.724-1	1.744-1
1.354-1	2.320-1	3.151-1	0.664-1	1.744-1
1.386-1	2.332-1	3.144-1	0.604-1	1.744-1
1.415-1	2.301-1	3.131-1	0.544-1	1.744-1
1.441-1	2.271-1	3.129-1	0.484-1	1.744-1
1.468-1	2.264-1	3.132-1	0.424-1	1.744-1
1.519-1	2.231-1	3.167-1	0.364-1	1.744-1
1.575-1	2.204-1	3.193-1	0.304-1	1.744-1
1.633-1	2.176-1	3.416-1	0.244-1	1.744-1
1.690-1	2.137-1	3.414-1	0.184-1	1.744-1
1.750-1	2.096-1	3.405-1	0.124-1	1.744-1
1.813-1	2.059-1	3.414-1	0.064-1	1.744-1
1.875-1	2.023-1	3.493-1	0.004-1	1.744-1
2.000-1				
RESONANCE INTEGRALS		1.453-2	1.455-2	4.700-1
MAXWELLIAN AVERAGES		3.730-2	3.257-2	4.766-1
1/E AVERAGES		6.532-2	6.374-2	2.685-1
FISSION AVERAGES		3.241-2	2.745-2	4.935-1
FAST AVERAGES		1.702-2	6.951-2	2.161-1

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ENDL 175 Group Neutron Constants

12-Mg-Nat

04/12/76

END: 175 Group Neutron Constants

12-Mg-Nat

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ENDL 175 Group Neutron Constants

12-Mg-Nat

ATOMIC WEIGHT 2.4312		DENSITY 1.7400 ± 0 GRAMS/CC															
ENERGY	MFP (CM)	CROSS SECTION (BARNs)						ENERGY DEPOSITION (MEV)									
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL								
7.527	1	5.640	0	8.445	0	4.114	0	4.113	0	9.462	4	3.340	3	4.441	2	4.231	2
8.834	1	7.774	0	1.229	1	2.984	0	2.983	0	8.675	4	3.102	3	5.041	2	4.775	2
1.025	0	8.109	0	1.283	1	2.861	0	2.860	0	7.828	4	2.839	3	5.325	2	5.575	2
1.176	0	7.149	0	1.123	1	3.246	0	3.245	0	6.920	4	2.547	3	6.613	2	6.418	2
1.338	0	8.720	0	1.355	1	2.661	0	2.647	0	5.952	4	1.346	2	1.569	2	7.270	2
1.511	0	1.029	1	1.543	1	2.256	0	2.129	0	4.824	4	1.266	1	1.266	1	8.199	2
1.694	0	7.674	0	1.118	1	3.023	0	2.726	0	3.844	4	2.573	2	2.591	1	9.057	2
1.897	0	8.331	0	1.165	1	2.795	0	2.319	0	2.685	4	4.658	1	4.672	1	1.004	1
2.091	0	8.758	0	1.190	1	2.649	0	2.082	0	1.403	4	5.675	1	5.683	1	1.117	1
2.305	0	1.740	1	1.357	1	2.230	0	1.581	0	9.330	5	6.489	1	6.493	1	1.220	1
2.530	0	8.144	0	1.079	1	2.849	0	2.152	0	9.819	5	6.967	1	6.971	1	1.345	1
2.741	0	9.880	0	1.280	1	2.348	0	1.516	0	9.697	5	7.320	1	7.324	1	1.446	1
3.011	0	1.150	1	1.468	1	2.003	0	1.244	0	1.237	4	7.588	1	7.322	1	1.554	1
3.267	0	1.082	1	1.391	1	2.145	0	1.369	0	3.577	4	7.753	1	6.990	1	1.682	1
3.533	0	1.120	1	1.439	1	2.071	0	1.284	0	6.424	4	7.857	1	6.659	1	1.789	1
3.801	0	1.330	1	1.670	1	1.744	0	9.511	1	9.228	4	7.921	1	6.378	1	1.886	1
4.069	0	1.059	1	1.406	1	2.197	0	1.386	0	1.229	3	8.034	1	6.882	1	1.997	1
4.396	0	1.116	1	1.470	1	2.078	0	1.266	0	1.562	3	8.104	1	6.605	1	2.099	1
4.704	0	1.134	1	1.539	1	2.046	0	1.249	0	1.874	3	7.953	1	6.916	1	2.194	1
4.991	0	1.254	1	1.690	1	1.850	0	1.060	0	2.213	3	7.872	1	7.255	1	2.316	1
5.353	0	1.217	1	1.657	1	1.907	0	1.116	0	2.563	3	7.884	1	7.583	1	2.462	1
5.658	0	1.337	1	1.771	1	1.735	0	9.423	1	3.009	3	7.894	1	7.911	1	2.620	1
6.042	0	1.560	1	1.972	1	1.487	0	9.966	1	1.065	2	7.798	1	8.748	1	2.836	1
6.367	0	1.338	1	1.764	1	1.734	0	9.464	1	2.349	2	7.639	1	1.002	0	3.043	1
6.737	0	1.320	1	1.741	1	1.758	0	9.685	1	3.875	2	7.510	1	1.144	0	3.315	1
7.156	0	1.388	1	1.802	1	1.672	0	9.780	1	6.119	2	7.224	1	1.283	0	3.674	1
7.548	0	1.400	1	1.808	1	1.658	0	8.596	1	6.380	2	7.143	1	1.400	0	4.021	1
7.910	0	1.327	1	1.741	1	1.740	0	9.473	1	1.036	1	6.973	1	1.519	0	4.323	1
8.332	0	1.370	1	1.790	1	1.694	0	8.974	1	1.181	1	6.782	1	1.654	0	4.688	1
8.787	0	1.445	1	1.870	1	1.606	0	8.125	1	1.320	1	6.615	1	1.785	0	5.091	1
9.177	0	1.436	1	1.860	1	1.516	0	8.084	1	1.42	1	6.613	1	1.920	0	5.469	1
9.685	0	1.412	1	1.836	1	1.544	0	8.178	1	1.613	1	6.643	1	2.062	0	5.872	1
1.012	1	1.393	1	1.821	1	1.566	0	8.270	1	1.712	1	6.676	1	2.131	0	6.200	1
1.058	1	1.376	1	1.815	1	1.586	0	8.360	1	1.790	1	6.710	1	2.171	0	6.495	1
1.101	1	1.359	1	1.807	1	1.700	0	8.456	1	1.874	1	6.746	1	2.216	0	6.820	1
1.155	1	1.341	1	1.803	1	1.730	0	8.554	1	1.960	1	6.783	1	2.260	0	7.157	1
1.199	1	1.326	1	1.798	1	1.750	0	8.649	1	2.000	1	6.849	1	2.304	0	7.433	1
1.250	1	1.310	1	1.795	1	1.771	0	8.757	1	2.000	1	6.957	1	2.353	0	7.684	1
1.307	1	1.295	1	1.795	1	1.792	0	8.861	1	2.000	1	7.061	1	2.401	0	7.866	1
1.354	1	1.283	1	1.798	1	1.808	0	8.940	1	2.000	1	7.140	1	2.438	0	8.017	1
1.386	1	1.276	1	1.800	1	1.818	0	8.993	1	1.999	1	7.193	1	2.464	0	8.129	1
1.413	1	1.276	1	1.811	1	1.819	0	9.000	1	1.987	1	7.200	1	2.484	0	8.236	1
1.441	1	1.277	1	1.824	1	1.817	0	9.000	1	1.973	1	7.200	1	2.503	0	8.345	1
1.468	1	1.278	1	1.840	1	1.815	0	9.000	1	1.954	1	7.200	1	2.531	0	8.482	1
1.519	1	1.250	1	1.872	1	1.813	0	9.000	1	1.927	1	7.200	1	2.569	0	8.642	1
1.575	1	1.282	1	1.910	1	1.810	0	9.024	1	1.879	1	7.198	1	2.610	0	8.746	1
1.633	1	1.283	1	1.953	1	1.808	0	9.157	1	1.743	1	7.184	1	2.651	0	8.863	1
1.692	1	1.284	1	2.021	1	1.807	0	9.306	1	1.594	1	7.169	1	2.693	0	8.925	1
1.752	1	1.285	1	2.086	1	1.805	0	9.457	1	1.443	1	7.154	1	2.736	0	9.023	1
1.813	1	1.286	1	2.157	1	1.804	0	9.611	1	1.269	1	7.139	1	2.780	0	9.057	1
1.875	1	1.288	1	2.252	1	1.802	0	9.844	1	1.056	1	7.116	1	2.846	0	9.544	1
2.000	1															7.581	1
RESONANCE INTEGRALS						6.716	1	6.522	1	2.088	1	1.731	0	3.365	0		
MAXWELLIAN AVERAGES						3.401	0	3.331	0	6.994	2	1.824	1				
1/E AVERAGES						3.937	0	3.726	0	1.193	2	9.689	2	1.922	1		
FISSION AVERAGES						3.311	0	2.977	0	2.939	3	3.302	1	3.333	1		
FUSION AVERAGES						1.814	0	8.974	1	1.991	1	7.174	1	2.467	0		

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ENDL 175 Group Neutron Constants

13-Al-27

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ENDL 175 Group Neutron Constants

13-A1-27

ATOMIC WEIGHT 2.6983 ± 1		DENSITY 2.6932 ± 0 GRAMS/CC									
ENERGY MEV	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARN)				ENERGY DEPOSITION (MEV)			
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	SAM-PROD.	TOTAL	LOCAL	
1.307	9	0.174	0.0312	2.031	1.340	6.828	1	2.590	2.590	3.951	4
5.227	9	0.628	0.1003	1.689	1.340	3.411	1	5.447	5.447	2.313	4
2.091	8	1.054	1.1077	1.575	1.340	2.275	1	4.299	1.116	1.654	4
3.267	8	1.082	1.107	1.534	1.340	1.860	1	3.515	9.373	1.389	4
4.709	7	1.111	1.137	1.494	1.347	1.465	1	2.768	7.579	1.123	4
8.322	6	1.136	1.153	1.461	1.347	1.141	1	2.155	6.036	1.045	5
1.307	7	1.153	1.160	1.440	1.347	9.334	2	1.704	5.009	7.425	5
1.882	7	1.164	1.192	1.426	1.347	7.889	2	1.481	4.277	6.340	5
2.561	7	1.173	1.201	1.415	1.347	6.837	2	1.292	3.734	5.536	5
3.310	7	1.180	1.208	1.407	1.347	6.031	2	1.140	3.313	4.913	5
4.234	7	1.185	1.211	1.401	1.347	5.424	2	1.025	2.992	4.439	5
5.123	7	1.191	1.220	1.394	1.347	4.681	2	0.896	2.596	3.853	5
7.527	7	1.199	1.228	1.385	1.347	3.794	2	7.170	2.117	3.142	5
1.176	6	1.204	1.234	1.372	1.347	3.202	2	6.051	1.795	2.671	5
1.511	6	1.208	1.238	1.375	1.347	2.769	2	5.233	1.557	2.322	5
2.031	6	1.211	1.241	1.371	1.347	2.390	2	4.517	1.347	2.017	5
2.741	6	1.215	1.244	1.368	1.347	2.097	2	3.964	1.185	1.782	5
3.533	6	1.216	1.246	1.365	1.347	1.932	2	3.463	1.037	1.571	5
4.709	6	1.217	1.246	1.363	1.347	1.631	2	3.082	0.946	1.411	5
5.656	6	1.219	1.250	1.362	1.347	1.491	2	2.818	0.846	1.303	5
6.737	6	1.220	1.251	1.361	1.347	1.354	2	2.559	0.783	1.199	5
8.322	6	1.221	1.252	1.360	1.347	1.241	2	2.346	0.707	1.115	5
9.620	6	1.222	1.253	1.359	1.347	1.155	2	2.184	0.673	1.053	5
1.101	5	1.222	1.253	1.358	1.347	1.070	2	2.023	0.603	0.949	5
1.307	5	1.223	1.254	1.357	1.347	9.977	3	1.866	0.588	0.947	6
1.468	5	1.223	1.255	1.357	1.347	9.459	3	1.785	0.512	0.873	6
1.581	5	1.224	1.255	1.356	1.347	9.079	3	1.716	0.478	0.827	6
1.759	5	1.224	1.255	1.356	1.347	8.709	3	1.646	0.465	0.725	6
1.882	5	1.225	1.256	1.356	1.347	8.330	3	1.574	0.450	0.521	6
2.075	5	1.225	1.256	1.355	1.347	7.961	3	1.505	0.441	0.354	6
2.277	5	1.225	1.256	1.355	1.347	7.662	3	1.448	0.437	0.226	6
2.417	5	1.225	1.256	1.355	1.347	7.418	3	1.402	0.435	0.123	6
2.561	5	1.226	1.257	1.355	1.347	7.222	3	1.365	0.421	0.063	6
2.710	5	1.226	1.257	1.354	1.347	7.036	3	1.320	0.416	0.015	6
2.862	5	1.226	1.257	1.354	1.347	6.893	3	1.303	0.415	0.978	6
2.940	5	1.226	1.257	1.354	1.347	6.747	3	1.275	0.402	0.790	6
3.099	5	1.226	1.257	1.354	1.347	6.521	3	1.233	0.378	0.695	6
3.345	5	1.226	1.258	1.354	1.347	6.299	3	1.190	0.359	0.607	6
3.601	5	1.227	1.258	1.353	1.347	6.071	3	1.147	0.348	0.502	6
3.866	5	1.227	1.259	1.353	1.347	5.879	3	1.111	0.339	0.417	6
4.048	5	1.227	1.259	1.353	1.347	5.756	3	1.089	0.328	0.307	6
4.234	5	1.227	1.259	1.353	1.347	5.669	3	1.071	0.325	0.234	6
4.329	5	1.227	1.259	1.353	1.347	5.550	3	1.049	0.317	0.171	6
4.619	5	1.227	1.259	1.353	1.347	5.429	3	1.026	0.313	0.109	6
4.717	5	1.227	1.259	1.353	1.347	5.337	3	1.009	0.309	0.036	6
4.918	5	1.227	1.259	1.353	1.347	5.216	3	9.959	0.294	0.079	6
5.123	5	1.227	1.259	1.352	1.347	5.122	3	9.881	0.292	0.147	6
5.332	5	1.228	1.259	1.352	1.347	5.006	3	9.813	0.282	0.238	6
5.654	5	1.228	1.259	1.352	1.347	4.911	3	9.293	0.208	0.311	6
5.763	5	1.228	1.259	1.352	1.347	4.814	3	9.093	0.253	0.387	6
6.097	5	1.228	1.259	1.352	1.347	4.691	3	8.857	0.283	0.492	6
6.325	5	1.228	1.259	1.352	1.347	4.607	3	8.708	0.235	0.574	6
6.557	5	1.228	1.259	1.352	1.347	4.553	3	8.605	0.204	0.653	6
6.674	5	1.228	1.259	1.352	1.347	4.479	3	8.466	0.262	0.750	6
7.034	5	1.228	1.259	1.352	1.347	4.405	3	8.425	0.219	0.868	6
7.155	5	1.228	1.259	1.352	1.347	4.328	3	8.180	0.476	0.978	6
7.527	5	1.228	1.260	1.352	1.347	4.231	3	7.997	0.421	0.917	6
7.780	5	1.228	1.260	1.351	1.347	4.172	3	7.886	0.387	0.202	6
7.908	5	1.228	1.260	1.351	1.347	4.121	3	7.769	0.358	0.286	6
8.167	5	1.228	1.260	1.351	1.347	4.053	3	7.680	0.325	0.433	6
8.431	5	1.228	1.260	1.351	1.347	3.990	3	7.542	0.283	0.507	6
8.634	5	1.229	1.260	1.351	1.347	3.920	3	7.401	0.241	0.784	6

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ENDL 175 Group Neutron Constants

13-AI-27

ATOMIC WEIGHT 2.6983			DENSITY 2.6992							GRAMS/CC	
ENERGY		MFP (CM)		CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDR	GAM-PROD.	TOTAL	LOCAL		
9.10E-5	1.229*	1.260*	1.351*	1.347*	0.3855	3	7.287*	2.206*	9.928*		
9.36E-5	1.229*	1.260*	1.351*	1.347*	0.3794	3	7.170*	2.111*	1.007*		
9.66E-5	1.229*	1.260*	1.351*	1.347*	0.3747	3	7.082*	2.145*	1.018*		
9.81E-5	1.229*	1.260*	1.351*	1.347*	0.3692	3	6.978*	2.113*	1.034*		
1.025*	1.229*	1.260*	1.351*	1.347*	0.3625	3	6.859*	2.077*	1.071*		
1.099*	1.229*	1.260*	1.351*	1.347*	0.3554	3	6.718*	2.035*	1.119*		
1.176*	1.229*	1.260*	1.351*	1.347*	0.3477	3	6.571*	1.991*	1.168*		
1.256*	1.229*	1.260*	1.351*	1.347*	0.3407	3	6.439*	1.951*	1.219*		
1.338*	1.229*	1.260*	1.351*	1.347*	0.3352	3	6.335*	1.919*	1.268*		
1.406*	1.229*	1.260*	1.351*	1.347*	0.3289	3	6.216*	1.884*	1.324*		
1.51*	1.229*	1.261*	1.350*	1.347*	0.3218	3	6.082*	1.843*	1.387*		
1.601*	1.229*	1.261*	1.350*	1.347*	0.3163	3	5.978*	1.812*	1.447*		
1.694*	1.229*	1.261*	1.350*	1.347*	0.3112	3	5.882*	1.783*	1.510*		
1.789*	1.229*	1.261*	1.350*	1.347*	0.3060	3	5.783*	1.753*	1.574*		
1.887*	1.229*	1.261*	1.350*	1.347*	0.3006	3	5.682*	1.723*	1.640*		
1.988*	1.229*	1.261*	1.350*	1.347*	0.2958	3	5.590*	1.695*	1.708*		
2.091*	1.230*	1.261*	1.350*	1.347*	0.2911	3	5.514*	1.612*	1.962*		
2.741*	1.230*	1.261*	1.350*	1.347*	0.2625	3	4.901*	1.505*	2.362*		
3.267*	1.230*	1.261*	1.350*	1.347*	0.2495	3	4.716*	1.432*	2.729*		
3.811*	1.230*	1.262*	1.349*	1.347*	0.2355	3	4.451*	1.352*	3.224*		
4.704*	1.230*	1.262*	1.349*	1.347*	0.2159	3	4.270*	1.290*	3.632*		
4.991*	1.231*	1.262*	1.349*	1.347*	0.2195	3	4.149*	1.262*	3.963*		
5.658*	1.231*	1.262*	1.349*	1.347*	0.2133	3	4.031*	1.226*	4.328*		
6.042*	1.231*	1.262*	1.349*	1.347*	0.2091	3	3.951*	1.202*	4.574*		
6.367*	1.231*	1.262*	1.349*	1.347*	0.2038	3	3.852*	1.173*	4.962*		
7.156*	1.231*	1.262*	1.349*	1.347*	0.1953	3	3.692*	1.125*	5.642*		
8.322*	1.231*	1.263*	1.348*	1.346*	0.1881	3	3.556*	1.085*	6.347*		
9.177*	1.231*	1.263*	1.348*	1.346*	0.1827	3	3.454*	1.055*	7.140*		
1.050*	1.231*	1.263*	1.348*	1.346*	0.1775	3	3.332*	1.041*	8.039*		
1.307*	1.231*	1.263*	1.348*	1.346*	0.2224	3	4.205*	1.286*	1.043*		
1.581*	1.231*	1.263*	1.348*	1.346*	0.2499	3	4.724*	1.445*	1.253*		
1.882*	1.231*	1.263*	1.348*	1.345*	0.2799	3	5.291*	1.619*	1.463*		
2.208*	1.231*	1.263*	1.348*	1.345*	0.3123	3	5.905*	1.808*	1.733*		
2.561*	1.231*	1.263*	1.348*	1.345*	0.3473	3	6.566*	2.011*	2.004*		
2.940*	1.234*	1.265*	1.345*	1.342*	0.3848	3	7.275*	2.243*	2.296*		
3.345*	1.241*	1.272*	1.338*	1.334*	0.4247	3	8.031*	2.400*	2.611*		
3.777*	1.248*	1.280*	1.330*	1.325*	0.4672	3	8.834*	2.744*	2.949*		
4.234*	1.211*	1.242*	1.371*	1.365*	0.5957	3	1.127*	3.397*	3.733*		
5.763*	1.786*	0.6957*	2.446*	2.415*	0.3170	2	5.996*	1.007*	5.231*		
7.527*	1.209*	1.322*	1.288*	1.284*	0.3878	3	7.337*	2.392*	6.427*		
1.025*	1.366*	1.401*	1.215*	1.212*	0.3133	3	5.930*	2.083*	9.073*		
1.511*	2.1681*	1.908*	8.921*	8.892*	1.2903	3	5.499*	2.645*	1.298*		
2.091*	2.521*	2.585*	6.585*	6.555*	1.3074	3	5.828*	3.181*	1.744*		
2.645*	2.7174*	7.357*	2.314*	2.309*	4.533*	3	8.599*	1.734*	2.203*		
3.267*	2.8261*	8.472*	2.009*	2.007*	2.023*	2	3.840*	0.929*	2.513*		
3.953*	3.627*	3.719*	4.577*	4.574*	3.372*	3	6.407*	1.690*	3.995*		
4.704*	2.7035*	7.214*	2.360*	2.358*	1.510*	3	2.872*	1.584*	3.637*		
5.761*	9.362*	1.011*	1.683*	1.682*	0.8641	4	1.646*	3.425*	4.457*		
7.002*	3.679*	3.774*	4.512*	4.510*	1.684*	3	3.214*	0.390*	3.550*		
8.322*	2.1257*	1.285*	1.321*	1.321*	3.225*	3	6.165*	0.941*	3.625*		
9.891*	4.701*	4.621*	3.531*	3.528*	2.553*	3	4.894*	1.353*	7.936*		
1.307*	2.358*	2.453*	7.009*	7.007*	2.070*	3	3.987*	1.208*	1.059*		
1.820*	4.003*	4.217*	4.147*	4.146*	0.598*	4	1.858*	1.504*	1.325*		
2.075*	3.792*	4.031*	4.378*	4.377*	0.807*	4	1.614*	1.630*	1.484*		
2.417*	7.508*	8.098*	2.211*	2.210*	7.799*	4	1.521*	1.954*	1.681*		
2.710*	3.609*	3.942*	4.600*	4.599*	7.380*	4	1.444*	1.932*	1.952*		
2.940*	3.995*	4.408*	4.155*	4.155*	7.501*	4	1.474*	2.147*	2.008*		
3.345*	4.560*	5.122*	3.640*	3.639*	8.614*	4	1.700*	2.450*	2.267*		
3.777*	4.722*	5.406*	3.516*	3.515*	9.300*	4	1.845*	2.704*	2.499*		
4.234*	3.996*	4.681*	4.155*	4.154*	5.844*	4	1.168*	2.880*	2.771*		
5.123*	4.261*	5.247*	3.895*	3.895*	3.635*	4	7.358*	4.280*	3.207*		
6.325*	4.681*	6.343*	3.547*	3.546*	3.194*	4	6.156*	3.739*	3.669*		

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ENDL 175 Group Neutron Constants

13-AI-27

ATOMIC WEIGHT 2.6993+1			DENSITY 2.6992+0 GRAMS/CC						
ENERGY MEV	MF (CM)		CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1	3.630+0	4.998+0	4.574+0	4.573+0	2.632+0	1.072+0	6.631+0	4.188+0	4.143+0
2.834-1	5.565+0	8.014+0	2.983+0	2.980+0	1.662+0	2.224+0	3.299+0	4.754+0	4.648+0
1.025+0	4.854+0	7.173+0	3.320+0	3.339+0	1.320+0	8.082+0	2.9396+0	7.409+0	5.225+0
1.176+0	5.253+0	7.621+0	3.160+0	2.980+0	1.351+0	1.800+0	1.649+0	1.116+0	5.791+0
1.339+0	5.360+0	8.027+0	3.092+0	2.674+0	1.395+0	2.185+0	2.082+0	1.327+0	6.561+0
1.511+0	5.552+0	8.273+0	2.990+0	2.726+0	1.420+0	2.647+0	2.542+0	1.584+0	7.351+0
1.694+0	5.855+0	8.673+0	2.835+0	2.536+0	1.458+0	2.993+0	2.842+0	1.839+0	8.207+0
1.887+0	5.260+0	7.847+0	3.156+0	2.603+0	1.484+0	3.029+0	2.781+0	1.63+0	9.061+0
2.091+0	5.322+0	8.274+0	3.119+0	2.823+0	1.403+0	2.967+0	2.708+0	1.844+0	9.218+0
2.305+0	5.781+0	9.765+0	2.871+0	2.532+0	1.440+0	3.397+0	3.101+0	2.298+0	9.118+0
2.530+0	5.356+0	9.810+0	3.100+0	2.711+0	2.669+0	3.884+0	1.764+0	2.642+0	9.339+0
2.741+0	6.208+0	1.029+1	2.674+0	2.722+0	8.698+0	4.509+0	4.306+0	3.612+0	1.193+0
3.011+0	6.655+0	9.529+0	2.494+0	2.511+0	2.249+0	5.712+0	5.529+0	5.045+0	1.318+0
3.261+0	6.707+0	1.018+0	2.475+0	9.25+0	6.215+0	3.644+0	7.444+0	6.123+0	1.382+0
3.533+0	6.526+0	1.026+0	2.544+0	1.663+0	7.922+0	3.6729+0	8.971+0	6.667+0	1.444+0
3.811+0	6.947+0	1.087+0	2.889+0	1.666+0	7.492+0	3.7162+0	9.627+0	7.715+0	1.528+0
4.069+0	7.165+0	1.124+0	2.317+0	5.71+0	1.010+0	7.252+0	1.032+0	8.393+0	1.640+0
4.396+0	7.694+0	1.186+0	2.158+0	4.20+0	1.911+0	7.369+0	1.108+0	9.423+0	1.608+0
4.704+0	7.604+0	1.188+0	2.173+0	4.2+0	1.907+0	7.415+0	1.188+0	9.898+0	1.631+0
4.991+0	7.620+0	1.174+0	2.179+0	5.74+0	2.857+0	7.755+0	1.277+0	1.124+0	2.098+0
5.353+0	8.025+0	1.201+0	2.069+0	2.460+0	3.648+0	7.925+0	1.370+0	1.282+0	2.310+0
5.658+0	7.891+0	1.179+0	2.104+0	2.62+0	4.432+0	7.978+0	1.456+0	1.363+0	2.519+0
6.0+0	8.240+0	1.204+0	2.014+0	1.58+0	5.388+0	8.030+0	1.536+0	1.542+0	2.745+0
6.367+0	8.210+0	1.192+0	2.022+0	1.35+0	6.572+0	8.122+0	1.619+0	1.694+0	2.946+0
6.737+0	8.560+0	1.212+0	1.939+0	1.335+0	8.140+0	8.232+0	1.700+0	1.987+0	3.294+0
7.156+0	9.705+0	1.261+0	1.803+0	6.762+0	9.616+0	8.350+0	1.735+0	2.357+0	3.709+0
7.548+0	9.937+0	1.240+0	1.845+0	6.940+0	1.148+0	8.362+0	1.760+0	2.531+0	3.948+0
7.910+0	9.307+0	1.261+0	1.784+0	8.125+0	1.522+0	8.388+0	1.786+0	2.845+0	4.282+0
8.324+0	9.348+0	1.269+0	1.776+0	9.936+0	1.514+0	8.308+0	1.815+0	3.096+0	4.653+0
8.757+0	9.861+0	1.312+0	1.683+0	6.871+0	1.679+0	8.284+0	1.846+0	3.519+0	5.192+0
9.177+0	9.674+0	1.297+0	1.716+0	7.038+0	1.825+0	8.297+0	1.884+0	3.734+0	5.559+0
9.665+0	9.126+0	1.289+0	1.725+0	6.923+0	1.946+0	8.377+0	1.923+0	4.024+0	5.966+0
1.012+0	9.601+0	1.292+0	1.694+0	6.398+0	2.074+0	8.504+0	1.961+0	4.406+0	6.438+0
1.058+0	9.770+0	1.281+0	1.699+0	6.222+0	2.106+0	8.661+0	1.998+0	4.708+0	6.826+0
1.101+0	9.549+0	1.263+0	1.736+0	6.446+0	2.177+0	8.741+0	2.017+0	4.997+0	7.154+0
1.155+0	9.516+0	1.274+0	1.741+0	6.471+0	2.238+0	8.727+0	1.982+0	5.151+0	7.573+0
1.199+0	9.500+0	1.27+0	1.733+0	6.297+0	2.261+0	8.744+0	1.965+0	5.059+0	7.998+0
1.250+0	9.565+0	1.271+0	1.735+0	6.331+0	2.324+0	8.699+0	1.904+0	5.635+0	8.416+0
1.307+0	9.598+0	1.284+0	1.730+0	6.310+0	2.333+0	8.594+0	1.864+0	5.826+0	8.781+0
1.354+0	9.594+0	1.292+0	1.731+0	6.446+0	2.314+0	8.552+0	1.833+0	5.903+0	9.081+0
1.306+0	9.531+0	1.288+0	1.747+0	6.50+0	2.287+0	8.625+0	1.810+0	5.919+0	9.074+0
1.413+0	9.531+0	1.289+0	1.742+0	6.494+0	2.251+0	8.672+0	1.789+0	5.922+0	9.162+0
1.441+0	9.517+0	1.288+0	1.744+0	6.474+0	2.211+0	8.756+0	1.768+0	5.864+0	9.246+0
1.468+0	9.492+0	1.286+0	1.749+0	6.462+0	2.153+0	8.854+0	1.727+0	5.804+0	9.363+0
1.519+0	9.460+0	1.290+0	1.755+0	6.561+0	2.094+0	8.915+0	1.788+0	5.738+0	9.428+0
1.575+0	9.420+0	1.302+0	1.762+0	6.744+0	1.933+0	8.944+0	1.807+0	5.553+0	9.418+0
1.633+0	9.383+0	1.318+0	1.769+0	6.475+0	1.803+0	8.912+0	1.827+0	5.266+0	9.348+0
1.692+0	9.364+0	1.342+0	1.773+0	7.242+0	1.668+0	8.918+0	1.848+0	5.170+0	9.237+0
1.752+0	9.343+0	1.371+0	1.777+0	7.561+0	1.535+0	8.972+0	1.868+0	5.297+0	9.088+0
1.813+0	9.311+0	1.398+0	1.783+0	8.061+0	1.402+0	8.965+0	1.889+0	5.395+0	8.908+0
1.875+0	9.253+0	1.435+0	1.794+0	8.123+0	1.294+0	8.971+0	1.921+0	5.402+0	8.506+0
0.02+0									
RESONANCE INTERFERS			4.063+0	1.848+0	3.403+0	1.804+0	3.437+0		
MAXIMUM AVERAGES			1.555+0	3.30+0	2.069+0		3.911+0		
F AVERAGES			2.614+0	2.100+0	1.944+0	1.031+0	1.963+0		
FUSION AVERAGES			3.172+0	2.875+0	6.546+0	1.025+0	3.674+0		
FUSION AVERAGES			1.739+0	6.473+0	2.271+0	6.640+0	1.807+0

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ENDL 175 Group Neutron Constants

14-Si-Nat

ATOMIC WEIGHT		2 8086+1		DENSITY P.3300+0 GRAMS/CC					
ENERGY		MEP (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)	
MEV		TOTAL TRANSPORT		TOTAL ELASTIC		ABSORPTN REMAINDER GAM-PROD.		TOTAL LOCAL	
0.507	4	7.68-0	0.778-1	0.626-0	0.150-0	0.470-1	1.048-0	1.588+0	2.561-4
0.514	3	9.369-0	0.814-0	0.238-0	0.150-0	0.259-1	5.214-1	8.676-1	1.402-4
0.521	8	8.174-0	0.807-0	0.308-0	0.150-0	1.577-1	3.485-1	5.991-1	1.9687 5
0.526	8	8.184-0	0.809-0	0.278-0	0.150-0	1.280-1	2.829-1	4.826-1	7.966-5
0.533	8	8.403-0	0.916-0	0.128-0	0.150-0	1.205-1	2.205-1	3.382-1	6.982-5
0.538	8	9.194-0	0.919-0	0.194-0	0.150-0	0.845-2	1.734-1	3.087-1	1.992-5
0.543	7	9.433-0	0.935-0	0.214-0	0.150-0	0.620-2	1.419-1	2.542-1	4.112-5
0.548	7	9.184-0	0.924-0	0.205-0	0.150-0	0.592-2	1.214-1	2.184-1	3.533-5
0.551	7	9.304-0	0.926-0	0.198-0	0.150-0	0.768-2	1.054-1	1.909-1	3.078-5
0.554	7	9.133-0	0.930-0	0.192-0	0.150-0	0.166-2	9.207-2	1.667-1	2.698-5
0.557	7	9.150-0	0.923-0	0.186-0	0.150-0	1.363-2	8.315-2	1.569-1	2.444-5
0.560	7	9.123-0	0.914-0	0.183-0	0.150-0	1.235-2	7.149-2	1.380-1	1.06-5
0.562	7	9.199-0	0.926-0	0.176-0	0.150-0	0.599-2	5.744-2	1.047-1	1.701-5
0.566	6	9.214-0	0.926-0	0.172-0	0.150-0	0.235-2	4.949-2	5.020-2	1.469-5
0.571	6	9.254-0	0.953-0	0.170-0	0.150-0	1.352-2	4.313-2	7.888-2	1.268-5
0.574	6	9.144-0	0.923-0	0.168-0	0.150-0	1.767-2	3.905-2	7.447-2	1.173-5
0.577	6	9.244-0	0.944-0	0.166-0	0.150-0	1.633-2	3.606-2	6.683-2	1.068-5
0.583	6	9.243-0	0.944-0	0.166-0	0.150-0	1.633-2	3.299-2	6.046-2	1.008-5
0.584	6	9.204-0	0.930-0	0.165-0	0.150-0	1.382-2	3.054-2	5.600-2	9.430-6
0.588	6	9.144-0	0.920-0	0.163-0	0.150-0	1.280-2	2.879-2	5.150-2	8.804-6
0.593	5	9.263-0	0.948-0	0.162-0	0.150-0	1.165-2	2.576-2	4.727-2	8.181-6
0.597	5	9.264-0	0.950-0	0.161-0	0.150-0	1.069-2	2.362-2	4.336-2	7.652-6
0.602	5	9.263-0	0.949-0	0.160-0	0.150-0	1.003-2	2.217-2	4.072-2	7.317-6
0.607	5	9.263-0	0.949-0	0.160-0	0.150-0	0.945-2	2.205-2	4.054-2	7.168-6
0.612	5	9.263-0	0.949-0	0.160-0	0.150-0	0.957-3	2.200-2	4.042-2	7.521-6
0.618	5	9.263-0	0.949-0	0.160-0	0.150-0	0.942-3	2.197-2	4.036-2	7.609-6
0.623	5	9.263-0	0.949-0	0.160-0	0.150-0	0.926-3	2.194-2	4.029-2	7.701-6
0.628	5	9.263-0	0.949-0	0.160-0	0.150-0	0.929-3	2.190-2	4.023-2	7.797-6
0.633	5	9.263-0	0.949-0	0.160-0	0.150-0	0.899-3	2.186-2	4.015-2	7.898-6
0.638	5	9.263-0	0.949-0	0.160-0	0.150-0	0.881-3	2.181-2	4.007-2	7.980-6
0.643	5	9.263-0	0.949-0	0.160-0	0.150-0	0.850-3	2.177-2	3.999-2	8.133-6
0.648	5	9.263-0	0.949-0	0.160-0	0.150-0	0.835-3	2.173-2	3.993-2	8.223-6
0.653	5	9.269-0	0.949-0	0.160-0	0.150-0	0.818-3	2.170-2	3.986-2	8.316-6
0.658	5	9.258-0	0.949-0	0.160-0	0.150-0	0.782-3	2.166-2	3.973-2	8.412-6
0.663	5	9.265-0	0.949-0	0.160-0	0.150-0	0.769-3	2.163-2	3.970-2	8.495-6
0.668	5	9.268-0	0.949-0	0.160-0	0.150-0	0.756-3	2.160-2	3.969-2	8.580-6
0.673	5	9.266-0	0.949-0	0.160-0	0.150-0	0.743-3	2.155-2	3.960-2	8.690-6
0.678	5	9.266-0	0.949-0	0.160-0	0.150-0	0.725-3	2.149-2	3.948-2	8.849-6
0.683	5	9.268-0	0.949-0	0.160-0	0.150-0	0.696-3	2.143-2	3.937-2	9.014-6
0.688	5	9.268-0	0.949-0	0.160-0	0.150-0	0.671-3	2.137-2	3.927-2	9.156-6
0.693	5	9.268-0	0.949-0	0.160-0	0.150-0	0.651-3	2.133-2	3.919-2	9.273-6
0.698	5	9.268-0	0.949-0	0.160-0	0.150-0	0.629-3	2.129-2	3.911-2	9.386-6
0.703	5	9.268-0	0.949-0	0.160-0	0.150-0	0.611-3	2.125-2	3.904-2	9.484-6
0.708	5	9.268-0	0.949-0	0.160-0	0.150-0	0.592-3	2.120-2	3.895-2	9.608-6
0.713	5	9.269-0	0.949-0	0.160-0	0.150-0	0.576-3	2.115-2	3.888-2	9.703-6
0.718	5	9.269-0	0.949-0	0.160-0	0.150-0	0.552-3	2.111-2	3.879-2	9.831-6
0.723	5	9.269-0	0.949-0	0.160-0	0.150-0	0.530-3	2.106-2	3.870-2	9.963-6
0.728	5	9.269-0	0.949-0	0.160-0	0.150-0	0.511-3	2.102-2	3.861-2	10.095-6
0.733	5	9.269-0	0.949-0	0.160-0	0.150-0	0.492-3	2.098-2	3.852-2	10.227-6
0.738	5	9.269-0	0.949-0	0.160-0	0.150-0	0.473-3	2.094-2	3.843-2	10.359-6
0.743	5	9.269-0	0.949-0	0.160-0	0.150-0	0.454-3	2.089-2	3.834-2	10.491-6
0.748	5	9.269-0	0.949-0	0.160-0	0.150-0	0.431-3	2.082-2	3.826-2	10.595-6
0.753	5	9.269-0	0.949-0	0.160-0	0.150-0	0.405-3	2.076-2	3.815-2	10.735-6
0.758	5	9.269-0	0.949-0	0.160-0	0.150-0	0.376-3	2.072-2	3.808-2	10.884-6
0.763	5	9.269-0	0.949-0	0.160-0	0.150-0	0.349-3	2.067-2	3.796-2	11.044-6
0.768	5	9.269-0	0.949-0	0.160-0	0.150-0	0.323-3	2.060-2	3.786-2	11.114-6
0.773	5	9.269-0	0.949-0	0.160-0	0.150-0	0.295-3	2.054-2	3.775-2	11.305-6
0.778	5	9.269-0	0.949-0	0.160-0	0.150-0	0.261-3	2.047-2	3.761-2	11.505-6
0.783	5	9.269-0	0.949-0	0.160-0	0.150-0	0.240-3	2.042-2	3.752-2	11.624-6
0.788	5	9.269-0	0.949-0	0.160-0	0.150-0	0.218-3	2.037-2	3.744-2	11.745-6
0.793	5	9.269-0	0.949-0	0.160-0	0.150-0	0.197-3	2.031-2	3.735-2	11.866-6
0.798	5	9.269-0	0.949-0	0.160-0	0.150-0	0.172-3	2.023-2	3.717-2	12.12-5
0.803	5	9.270-0	0.949-0	0.160-0	0.150-0	0.144-3	2.017-2	3.702-2	12.33-5

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ENDL 175 Group Neutron Constants

14-Si-Nat

ATOMIC WEIGHT 2.8086* 1				DENSITY 2.3320* 0 GRAMS/CC									
ENERGY		HFP (CM)		CROSS SECTION (BARS)							ENERGY DEPOSIT (MEV)		
MEV		TOTAL TRANSPORT		TOTAL	ELASTIC		ABSORPTN		REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.10E-5	5	9.271	0	9.497	0	2.159	0	2.150	0	9.084	3	2.008	2
9.36E-5	5	9.271	0	9.497	0	2.159	0	2.150	0	9.053	3	2.001	2
9.66E-5	5	9.271	0	9.497	0	2.159	0	2.150	0	9.029	3	1.995	2
9.81E-5	5	9.271	0	9.497	0	2.159	0	2.150	0	9.004	3	1.990	2
1.02E-4	5	9.271	0	9.497	0	2.159	0	2.150	0	8.989	3	1.989	2
1.09E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.962	3	1.987	2
1.17E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.988	3	1.986	2
1.25E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.984	3	1.985	2
1.33E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.979	3	1.984	2
1.40E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.975	3	1.983	2
1.51E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.969	3	1.982	2
1.60E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.954	3	1.981	2
1.69E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.959	3	1.980	2
1.78E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.953	3	1.979	2
1.88E-4	5	9.271	0	9.498	0	2.159	0	2.150	0	8.948	3	1.978	2
1.98E-4	5	9.271	0	9.499	0	2.159	0	2.150	0	8.942	3	1.976	2
2.08E-4	5	9.271	0	9.499	0	2.159	0	2.150	0	8.937	3	1.975	2
2.71E-4	5	9.272	0	9.498	0	2.159	0	2.150	0	8.889	3	1.964	2
3.26E-4	5	9.272	0	9.498	0	2.159	0	2.150	0	8.859	3	1.958	2
3.61E-4	5	9.272	0	9.498	0	2.159	0	2.150	0	8.819	3	1.949	2
4.70E-4	5	9.272	0	9.498	0	2.159	0	2.150	0	8.786	3	1.942	2
4.99E-4	5	9.272	0	9.499	0	2.159	0	2.150	0	8.760	3	1.936	2
5.69E-4	5	9.272	0	9.499	0	2.159	0	2.150	0	8.731	3	1.930	2
6.04E-4	5	9.272	0	9.499	0	2.159	0	2.150	0	8.711	3	1.925	2
6.36E-4	5	9.272	0	9.499	0	2.159	0	2.150	0	8.680	3	1.918	2
7.15E-4	5	9.273	0	9.499	0	2.159	0	2.150	0	8.626	3	1.908	2
8.32E-4	5	9.273	0	9.499	0	2.159	0	2.150	0	8.569	3	1.899	2
9.17E-4	5	9.273	0	9.500	0	2.159	0	2.150	0	8.513	3	1.892	2
1.05E-3	5	9.273	0	9.500	0	2.159	0	2.150	0	8.481	3	1.877	2
1.30E-3	5	9.273	0	9.500	0	2.159	0	2.150	0	8.475	3	1.873	2
1.58E-3	5	9.273	0	9.500	0	2.158	0	2.150	0	8.459	3	1.870	2
1.88E-3	5	9.273	0	9.500	0	2.158	0	2.150	0	8.442	3	1.866	2
2.20E-3	5	9.274	0	9.500	0	2.158	0	2.150	0	8.423	3	1.862	2
2.56E-3	5	9.274	0	9.500	0	2.158	0	2.150	0	8.403	3	1.859	2
2.94E-3	5	9.274	0	9.500	0	2.158	0	2.150	0	8.381	3	1.853	2
3.34E-3	5	9.274	0	9.500	0	2.158	0	2.150	0	8.358	3	1.848	2
3.77E-3	5	9.274	0	9.500	0	2.158	0	2.150	0	8.333	3	1.842	2
4.23E-3	5	9.274	0	9.501	0	2.158	0	2.150	0	8.278	3	1.830	2
5.73E-3	5	9.275	0	9.500	0	2.135	0	2.127	0	8.186	3	1.811	2
7.52E-3	5	9.275	0	1.010	1	2.029	0	2.021	0	8.061	3	1.785	2
1.02E-2	5	1.107	1	1.134	1	1.808	0	1.800	0	7.599	3	1.680	2
1.51E-2	5	1.256	1	1.287	1	1.593	0	1.586	0	6.831	3	1.513	2
2.09E-2	5	1.356	1	1.389	1	1.477	0	1.469	0	7.740	3	1.715	2
2.64E-2	5	1.411	1	1.445	1	1.419	0	1.408	0	7.142	2	2.532	2
3.26E-2	5	1.433	1	1.467	1	1.397	0	1.394	0	7.947	3	1.764	2
3.95E-2	5	1.372	1	1.405	1	1.459	0	1.454	0	5.349	3	1.188	2
4.70E-2	5	1.242	1	1.273	1	1.611	0	1.608	0	3.008	3	6.696	3
5.76E-2	5	1.672	0	9.909	0	2.070	0	2.067	0	2.309	3	5.140	2
7.00E-2	5	1.095	1	1.141	1	1.828	0	1.826	0	1.890	3	4.215	3
8.32E-2	5	1.534	1	1.636	1	1.305	0	1.303	0	1.649	3	3.682	3
9.89E-2	5	2.275	1	2.495	1	0.800	1	0.785	1	1.463	2	3.276	3
1.30E-1	5	1.080	1	1.265	1	1.854	0	1.852	0	1.359	3	3.058	3
1.62E-1	5	1.702	1	1.742	1	1.176	1	1.176	1	1.263	3	2.854	3
2.07E-1	5	2.485	0	2.549	0	0.056	0	0.059	0	1.693	3	6.696	3
2.47E-1	5	3.633	0	3.753	0	5.539	0	5.508	0	1.109	3	5.523	3
2.91E-1	5	4.313	0	4.481	0	4.641	0	4.640	0	1.044	3	2.381	3
3.40E-1	5	4.903	0	5.118	0	4.082	0	4.081	0	0.948	4	2.278	3
3.95E-1	5	5.491	0	5.779	0	3.645	0	3.644	0	0.960	4	2.245	3
4.73E-1	5	6.189	0	6.263	0	3.382	0	3.381	0	0.969	4	2.212	3
5.73E-1	5	7.104	0	7.040	0	3.045	0	3.046	0	0.901	4	2.161	3
6.12E-1	5	7.275	0	6.653	0	3.794	0	3.793	0	0.833	4	2.060	3
6.35E-1	5	7.490	0	9.191	0	2.673	0	2.672	0	0.317	4	1.984	3

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ATOMIC WEIGHT 3 0974 1				DENSITY 1 8300 0 GRAMS/CC			
ENERGY	MEV (CM)	CROSS SECTION (BARN)	ENERGY DEPOSITION (MEV)	ELASTIC	ABSORPTION	REMAINDER	LOCAL
MEV	TOTAL TRANSPORT	CAT.	ELASTIC	ABSORPTION	REMAINDER	GAM-PROD	TOTAL
1.507-9	6.048-0	6.166-0	6.677-0	4.100-0	5.474-1	1.462-0	9.341-1
5.227-9	6.409-0	6.542-0	4.385-0	4.100-0	2.854-1	7.621-1	5.162-1
2.091-8	6.544-0	6.682-0	4.295-0	4.100-0	1.951-1	5.210-1	3.602-1
3.267-8	6.586-0	6.736-0	4.261-0	4.100-0	1.612-1	4.305-1	3.001-1
4.704-8	6.653-0	6.796-0	4.225-0	4.100-0	1.247-1	3.329-1	2.340-1
6.322-8	6.698-0	6.844-0	4.196-0	4.100-0	9.583-2	2.559-1	1.811-1
1.307-7	6.727-0	6.873-0	4.176-0	4.100-0	7.798-2	2.082-1	1.460-1
1.082-7	6.747-0	6.894-0	4.164-0	4.100-0	6.559-2	1.751-1	1.249-1
2.561-7	6.762-0	6.910-0	4.157-0	4.100-0	5.654-2	1.510-1	1.079-1
3.247-7	6.773-0	6.921-0	4.150-0	4.100-0	4.966-2	1.326-1	9.490-2
4.234-7	6.781-0	6.930-0	4.144-0	4.100-0	4.449-2	1.168-1	8.512-2
5.123-7	6.789-0	6.941-0	4.140-0	4.100-0	4.036-2	1.024-1	7.623-2
7.527-7	6.802-0	6.952-0	4.132-0	4.100-0	3.166-2	6.453-2	6.077-2
1.176-6	6.810-0	6.960-0	4.127-0	4.100-0	2.686-2	5.732-2	5.162-2
1.511-6	6.815-0	6.967-0	4.123-0	4.100-0	2.327-2	6.213-2	4.775-2
2.591-6	6.822-0	6.972-0	4.120-0	4.100-0	2.010-2	5.367-2	3.869-2
2.741-6	6.826-0	6.976-0	4.118-0	4.100-0	1.761-2	4.708-2	3.396-2
3.533-6	6.829-0	6.980-0	4.115-0	4.100-0	1.533-2	4.092-2	2.953-2
4.704-6	6.832-0	6.984-0	4.114-0	4.100-0	1.355-2	3.616-2	2.612-2
5.658-6	6.834-0	6.986-0	4.112-0	4.100-0	1.235-2	3.296-2	2.382-2
6.737-6	6.836-0	6.987-0	4.111-0	4.100-0	1.126-2	3.026-2	2.172-2
8.322-6	6.838-0	6.989-0	4.110-0	4.100-0	1.041-2	2.797-2	2.029-2
9.622-6	6.838-0	6.989-0	4.110-0	4.100-0	1.026-2	2.745-2	1.981-2
1.101-5	6.838-0	6.989-0	4.110-0	4.100-0	1.017-2	2.703-2	1.973-2
1.307-5	6.838-0	6.989-0	4.110-0	4.100-0	1.012-2	2.732-2	1.974-2
1.668-5	6.838-0	6.989-0	4.110-0	4.100-0	1.012-2	2.762-2	1.970-2
1.581-5	6.838-0	6.989-0	4.110-0	4.100-0	1.019-2	2.721-2	1.966-2
1.758-5	6.838-0	6.989-0	4.110-0	4.100-0	1.017-2	2.715-2	1.952-2
1.882-5	6.838-0	6.989-0	4.110-0	4.100-0	1.015-2	2.709-2	1.951-2
2.075-5	6.838-0	6.989-0	4.110-0	4.100-0	1.012-2	2.701-2	1.952-2
2.277-5	6.838-0	6.990-0	4.110-0	4.100-0	1.009-2	2.695-2	1.949-2
2.417-5	6.838-0	6.990-0	4.110-0	4.100-0	1.007-2	2.689-2	1.944-2
2.561-5	6.838-0	6.990-0	4.110-0	4.100-0	1.005-2	2.684-2	1.940-2
2.710-5	6.838-0	6.990-0	4.110-0	4.100-0	1.003-2	2.678-2	1.935-2
2.862-5	6.838-0	6.990-0	4.110-0	4.100-0	1.001-2	2.674-2	1.932-2
2.940-5	6.838-0	6.990-0	4.110-0	4.100-0	9.997-3	2.669-2	1.929-2
3.098-5	6.838-0	6.990-0	4.110-0	4.100-0	9.968-3	2.662-2	1.924-2
3.345-5	6.838-0	6.990-0	4.110-0	4.100-0	9.932-3	2.652-2	1.917-2
3.601-5	6.838-0	6.990-0	4.110-0	4.100-0	9.895-3	2.642-2	1.910-2
3.866-5	6.838-0	6.990-0	4.110-0	4.100-0	9.863-3	2.634-2	1.903-2
4.148-5	6.838-0	6.990-0	4.110-0	4.100-0	9.837-3	2.626-2	1.898-2
4.234-5	6.838-0	6.990-0	4.110-0	4.100-0	9.819-3	2.622-2	1.895-2
4.429-5	6.838-0	6.990-0	4.110-0	4.100-0	9.802-3	2.617-2	1.892-2
4.619-5	6.838-0	6.990-0	4.110-0	4.100-0	9.784-3	2.612-2	1.888-2
4.717-5	6.838-0	6.990-0	4.110-0	4.100-0	9.770-3	2.609-2	1.886-2
4.918-5	6.838-0	6.990-0	4.110-0	4.100-0	9.752-3	2.604-2	1.882-2
5.123-5	6.838-0	6.990-0	4.110-0	4.100-0	9.733-3	2.599-2	1.878-2
5.332-5	6.838-0	6.990-0	4.110-0	4.100-0	9.708-3	2.592-2	1.874-2
5.654-5	6.838-0	6.990-0	4.110-0	4.100-0	9.688-3	2.587-2	1.870-2
5.763-5	6.838-0	6.990-0	4.110-0	4.100-0	9.668-3	2.581-2	1.866-2
6.097-5	6.838-0	6.990-0	4.110-0	4.100-0	9.642-3	2.575-2	1.861-2
6.325-5	6.838-0	6.990-0	4.110-0	4.100-0	9.621-3	2.569-2	1.857-2
6.557-5	6.838-0	6.990-0	4.110-0	4.100-0	9.605-3	2.565-2	1.854-2
6.574-5	6.838-0	6.990-0	4.110-0	4.100-0	9.584-3	2.559-2	1.850-2
7.034-5	6.838-0	6.990-0	4.110-0	4.100-0	9.568-3	2.552-2	1.847-2
7.554-5	6.838-0	6.990-0	4.110-0	4.100-0	9.553-3	2.547-2	1.844-2
7.527-5	6.838-0	6.990-0	4.110-0	4.100-0	9.538-3	2.542-2	1.841-2
7.780-5	6.838-0	6.991-0	4.110-0	4.100-0	9.527-3	2.544-2	1.839-2
7.908-5	6.838-0	6.991-0	4.110-0	4.100-0	9.516-3	2.541-2	1.837-2
8.167-5	6.838-0	6.991-0	4.110-0	4.100-0	9.502-3	2.537-2	1.834-2
8.431-5	6.838-0	6.991-0	4.105-0	4.100-0	9.484-3	2.532-2	1.831-2
8.834-5	6.838-0	6.991-0	4.109-0	4.100-0	9.465-3	2.527-2	1.827-2

ATOMIC WEIGHT 3.0974							DENSITY 1.8300+0 GRAMS/CC		
ENERGY	MFP (CM)		CROSS SECTION (BARN/S)					ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
4.108	6.839+0	6.991+0	4.109+0	4.100+0	9.450-3	2.523-2	1.824-2	8.268-6	
4.180	6.839+0	6.991+0	4.109+0	4.100+0	9.434-3	2.519-2	1.821-2	8.440-6	
4.664	6.839+0	6.991+0	4.109+0	4.100+0	9.423-3	2.516-2	1.819-2	8.571-6	
4.811	6.839+0	6.991+0	4.109+0	4.100+0	9.407-3	2.512-2	1.816-2	8.749-6	
4.924	6.839+0	6.991+0	4.109+0	4.100+0	9.374-3	2.503-2	1.810-2	9.112-6	
4.949	6.839+0	6.991+0	4.109+0	4.100+0	9.337-3	2.493-2	1.803-2	9.591-6	
4.176	6.840+0	6.991+0	4.109+0	4.100+0	9.310-3	2.486-2	1.797-2	1.007-5	
4.256	6.840+0	6.991+0	4.109+0	4.100+0	9.282-3	2.478-2	1.792-2	1.057-5	
4.348	6.840+0	6.991+0	4.109+0	4.100+0	9.256-3	2.471-2	1.787-2	1.104-5	
4.406	6.840+0	6.991+0	4.109+0	4.100+0	9.226-3	2.463-2	1.781-2	1.157-5	
4.511	6.840+0	6.991+0	4.109+0	4.100+0	9.193-3	2.455-2	1.775-2	1.218-5	
4.601	6.840+0	6.991+0	4.109+0	4.100+0	9.162-3	2.446-2	1.769-2	1.275-5	
4.684	6.840+0	6.991+0	4.109+0	4.100+0	9.136-3	2.439-2	1.764-2	1.333-5	
4.769	6.840+0	6.991+0	4.109+0	4.100+0	9.118-3	2.434-2	1.761-2	1.394-5	
4.847	6.840+0	6.991+0	4.109+0	4.100+0	9.099-3	2.430-2	1.757-2	1.456-5	
4.908	6.840+0	6.991+0	4.109+0	4.100+0	9.081-3	2.425-2	1.754-2	1.520-5	
4.991	6.840+0	6.991+0	4.109+0	4.100+0	9.011-3	2.406-2	1.741-2	1.755-5	
4.741	6.840+0	6.992+0	4.109+0	4.100+0	8.902-3	2.377-2	1.720-2	2.123-5	
4.267	6.840+0	6.992+0	4.109+0	4.100+0	8.810-3	2.352-2	1.703-2	2.457-5	
4.811	6.840+0	6.997+0	4.109+0	4.100+0	8.737-3	2.333-2	1.689-2	2.907-5	
4.754	6.841+0	6.994+0	4.109+0	4.100+0	8.683-3	2.318-2	1.679-2	3.277-5	
4.991	6.841+0	6.994+0	4.109+0	4.100+0	8.639-3	2.307-2	1.671-2	3.576-5	
4.658	6.841+0	6.992+0	4.109+0	4.100+0	8.590-3	2.294-2	1.662-2	3.905-5	
4.047	6.841+0	6.992+0	4.109+0	4.100+0	8.558-3	2.285-2	1.656-2	4.127-5	
4.367	6.841+0	6.994+0	4.109+0	4.100+0	8.519-3	2.275-2	1.649-2	4.476-5	
4.156	6.841+0	6.994+0	4.109+0	4.100+0	8.469-3	2.261-2	1.642-2	5.009-5	
4.320	6.841+0	6.994+0	4.109+0	4.100+0	8.417-3	2.248-2	1.630-2	5.723-5	
4.177	6.841+0	6.994+0	4.109+0	4.100+0	8.359-3	2.232-2	1.620-2	6.433-5	
4.058	6.841+0	6.993+0	4.109+0	4.100+0	8.279-3	2.211-2	1.605-2	7.653-5	
4.307	6.841+0	6.993+0	4.109+0	4.100+0	8.198-3	2.199-2	1.592-2	9.293-5	
4.581	6.842+0	6.993+0	4.109+0	4.100+0	8.116-3	2.167-2	1.578-2	1.110-4	
4.807	6.842+0	6.993+0	4.109+0	4.100+0	8.061-3	2.153-2	1.569-2	1.306-4	
4.298	6.842+0	6.993+0	4.109+0	4.100+0	8.007-3	2.136-2	1.561-2	1.520-4	
4.561	6.842+0	6.993+0	4.109+0	4.100+0	7.948-3	2.123-2	1.552-2	1.749-4	
4.940	6.842+0	6.993+0	4.109+0	4.100+0	7.885-3	2.106-2	1.542-2	1.995-4	
4.345	6.842+0	6.993+0	4.109+0	4.100+0	7.820-3	2.089-2	1.532-2	2.257-4	
4.777	6.842+0	6.994+0	4.109+0	4.100+0	7.777-3	2.077-2	1.527-2	2.535-4	
4.234	6.842+0	6.994+0	4.109+0	4.100+0	7.701-3	2.058-2	1.518-2	3.159-4	
4.763	6.842+0	6.994+0	4.109+0	4.100+0	7.578-3	2.025-2	1.479-2	4.201-4	
4.527	6.843+0	5.512+0	4.212+0	4.205+0	7.468-3	1.996-2	1.192-2	5.546-4	
4.045	6.843+0	5.823+0	4.334+0	4.327+0	7.328-3	1.960-2	1.257-2	7.955-4	
4.511	6.843+0	6.932+0	4.162+0	4.155+0	7.195-3	1.925-2	1.483-2	1.124-3	
4.091	6.843+0	7.577+0	3.791+0	3.784+0	7.094-3	1.893-2	1.633-2	1.490-3	
4.646	6.843+0	7.040+0	4.081+0	4.074+0	7.004-3	1.877-2	1.547-2	1.857-3	
4.257	6.843+0	6.473+0	4.172+0	4.166+0	6.867-3	1.847-2	1.447-2	2.260-3	
4.953	6.843+0	6.170+0	4.656+0	4.650+0	6.759-3	1.813-2	1.420-2	2.702-3	
4.724	6.843+0	6.353+0	4.522+0	4.515+0	6.586-3	1.770-2	1.482-2	3.265-3	
4.761	6.843+0	6.555+0	4.383+0	4.376+0	6.374-3	1.715-2	1.552-2	3.983-3	
4.002	6.843+0	6.680+0	4.295+0	4.289+0	6.137-3	1.654-2	1.611-2	4.780-3	
4.322	6.844+0	7.343+0	3.912+0	3.906+0	5.869-3	1.584-2	1.756-2	5.664-3	
4.091	6.844+0	1.122+1	2.561+0	2.555+0	5.430-3	1.470-2	2.367-2	6.851-3	
4.307	6.844+0	1.052+1	3.009+0	3.004+0	4.661-3	1.268-2	2.080-2	8.503-3	
4.020	6.844+0	1.015+1	4.656+0	4.650+0	3.950-3	1.080-2	1.989-2	1.030-2	
4.075	6.844+0	1.290+1	2.589+0	2.586+0	3.397-3	9.316-3	2.245-2	1.204-2	
4.417	6.840+0	1.094+1	3.029+0	3.026+0	2.809-3	7.733-3	2.122-2	1.386-2	
4.710	6.840+0	1.100+1	2.890+0	2.888+0	2.324-3	6.419-3	2.151-2	1.534-2	
4.940	6.841+0	1.527+1	2.142+0	2.140+0	2.001-3	5.547-3	2.459-2	1.717-2	
4.345	6.841+0	9.034+0	3.599+0	3.593+0	1.973-3	5.486-3	2.387-2	1.951-2	
4.777	6.841+0	1.283+1	2.553+0	2.552+0	1.952+3	5.465-3	2.745-2	2.138-2	
4.234	6.842+0	6.705+0	3.870+0	3.869+0	1.913-3	5.116-3	2.726-2	2.332-2	
4.123	6.850+0	1.183+1	3.140+0	3.138+0	1.869-3	5.337-3	3.070-2	2.597-2	
4.325	6.850+0	1.503+1	2.677+0	2.675+0	1.811-3	5.243-3	3.566-2	3.028-2	

ATOMIC WEIGHT		3.0974 * 1		DENSITY		1.8300 * 0 GRAMS/CC	
ENERGY		MF (CM)		CROSS SECTION (BARNS)		ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.
TOTAL	LOCAL	TOTAL	LOCAL	TOTAL	LOCAL	TOTAL	LOCAL
7.527	1.057	1.549	2.659	2.659	1.751	5.139	4.040
8.834	1.066	1.214	3.484	3.483	1.689	5.022	4.333
9.025	1.072	1.336	3.222	3.221	1.615	4.893	4.964
1.176	1.058	1.300	3.333	3.301	1.539	5.379	5.563
1.338	1.045	1.401	3.107	3.076	1.463	5.712	5.885
1.511	1.039	1.407	2.992	2.898	1.047	5.522	1.092
1.694	1.032	1.371	2.912	2.710	1.552	1.994	1.662
1.887	1.025	1.336	2.902	2.511	1.914	3.808	2.482
2.041	1.017	1.377	2.821	2.291	1.238	5.174	3.169
2.305	1.020	1.414	2.756	2.109	3.001	5.556	4.044
2.530	1.015	1.200	3.087	2.333	4.898	7.042	4.616
2.741	1.015	1.313	3.069	2.252	6.989	7.471	5.094
3.011	1.027	1.367	3.030	2.205	8.36	7.414	6.659
3.267	1.076	1.587	2.611	1.785	8.909	7.356	6.649
3.533	1.029	1.576	2.731	1.906	9.479	7.255	7.463
3.811	1.005	1.569	2.797	1.973	1.004	7.236	6.056
4.069	1.084	1.582	2.815	1.992	1.065	7.171	6.145
4.396	1.035	1.735	2.714	1.891	1.139	7.100	6.240
4.704	1.048	1.839	2.682	1.855	1.229	7.034	6.435
4.991	1.109	1.935	2.534	1.699	1.359	7.000	6.048
5.352	1.151	2.006	2.441	1.590	1.506	7.000	9.706
5.658	1.230	2.110	2.285	1.427	1.579	7.000	1.039
6.042	1.213	2.121	2.316	1.449	1.674	7.000	1.109
6.367	1.181	2.080	2.379	1.509	1.790	7.000	1.177
6.737	1.217	2.104	2.309	1.417	1.921	7.000	1.255
7.156	1.278	2.147	2.220	1.294	2.056	7.000	1.335
7.548	1.320	2.174	2.134	1.214	2.192	7.000	1.410
7.910	1.355	2.166	2.074	1.140	2.310	7.000	1.457
8.322	1.371	2.176	2.050	1.095	2.456	7.101	1.446
8.787	1.385	2.167	2.030	1.059	2.595	7.164	1.432
9.177	1.394	2.175	2.016	1.039	2.605	7.160	1.418
9.665	1.404	2.188	2.002	1.028	2.603	7.144	1.403
1.012	1.415	2.205	1.986	1.016	2.569	7.128	1.381
1.058	1.428	2.224	1.969	1.005	2.524	7.112	1.357
1.101	1.439	2.241	1.954	9.960	2.476	7.095	1.331
1.155	1.448	2.256	1.941	9.904	2.427	7.078	1.305
1.199	1.458	2.277	1.927	9.844	2.367	7.061	1.280
1.250	1.470	2.304	1.911	9.777	2.286	7.040	1.251
1.307	1.480	2.327	1.899	9.712	2.208	7.066	1.224
1.354	1.488	2.344	1.889	9.662	2.148	7.080	1.215
1.396	1.494	2.358	1.881	9.625	2.100	7.089	1.218
1.413	1.501	2.374	1.872	9.591	2.040	7.094	1.221
1.441	1.508	2.391	1.863	9.557	1.976	7.101	1.225
1.469	1.516	2.410	1.852	9.509	1.886	7.123	1.231
1.514	1.535	2.439	1.831	9.453	1.772	7.090	1.238
1.570	1.554	2.475	1.809	9.396	1.652	7.036	1.246
1.633	1.574	2.524	1.785	9.337	1.530	6.989	1.265
1.692	1.592	2.570	1.765	9.278	1.425	6.956	1.263
1.752	1.603	2.603	1.753	9.217	1.342	6.975	1.271
1.813	1.621	2.655	1.734	9.156	1.260	6.920	1.280
1.875	1.655	2.746	1.699	9.082	1.135	6.788	1.293
2.000							
RESONANCE INTEGRALS				6.560	1.6346	4.935	1.651
MAXWELLIAN AVERAGES				4.275	0.4100	1.752	1.678
1/E AVERAGES				3.748	0.3625	2.820	2.9435
FISSION AVERAGES				2.958	0.2618	3.622	3.040
FUSION AVERAGES				1.878	0.9617	2.077	7.090

04/12/76

ENDL 175 Group Neutron Constants

16-S -32

04/12/76

ENDL 175 Group Neutron Constants

16-S -32

ATOMIC WEIGHT		3.1972 x 1		DENSITY		2.0611 x 10 GRAMS/CC	
ENERGY		MFP (CM)		CROSS SECTION (BARN)		ENERGY DEPOSITION (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	REMAINDER	GAM-PROD
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	REMAINDER	GAM-PROD
1.307-9	1.039+1	1.050+1	2.477+0	1.231+0	1.245+0	0	3.453+0
5.227-9	1.356+1	1.375+1	1.897+0	1.201+0	6.951+0	0	1.896+0
2.091-8	1.526+1	1.549+1	1.686+0	1.200+0	4.860+0	0	1.343+0
3.267-8	1.603+1	1.629+1	1.605+0	1.196+0	4.090+0	0	1.129+0
4.704-8	1.691+1	1.720+1	1.521+0	1.188+0	3.328+0	0	9.168+0
8.322-8	1.778+1	1.809+1	1.447+0	1.176+0	2.710+0	0	7.451+0
1.307-7	1.853+1	1.885+1	1.388+0	1.160+0	2.276+0	0	6.244+0
1.682-7	1.921+1	1.956+1	1.359+0	1.142+0	1.967+0	0	5.394+0
2.561-7	1.973+1	2.010+1	1.303+0	1.129+0	1.743+0	0	4.762+0
3.345-7	2.007+1	2.045+1	1.262+0	1.125+0	1.569+0	0	4.219+0
4.234-7	2.037+1	2.075+1	1.263+0	1.120+0	1.428+0	0	3.888+0
5.123-7	2.078+1	2.118+1	1.230+0	1.112+0	1.262+0	0	3.426+0
7.527-7	2.137+1	2.179+1	1.204+0	1.097+0	1.070+0	0	2.890+0
1.176-6	2.151+1	2.193+1	1.196+0	1.093+0	1.227+0	0	2.771+0
1.511-6	2.152+1	2.194+1	1.195+0	1.093+0	1.022+0	0	2.759+0
2.091-6	2.153+1	2.194+1	1.195+0	1.093+0	1.016+0	0	2.742+0
2.741-6	2.154+1	2.197+1	1.194+0	1.093+0	1.009+0	0	2.723+0
3.533-6	2.156+1	2.199+1	1.193+0	1.093+0	1.000+0	0	2.697+0
4.704-6	2.158+1	2.201+1	1.192+0	1.093+0	9.898+0	2	2.668+0
5.658-6	2.160+1	2.202+1	1.191+0	1.093+0	9.801+0	2	2.641+0
6.737-6	2.162+1	2.205+1	1.190+0	1.093+0	9.676+0	2	2.607+0
8.322-6	2.164+1	2.206+1	1.189+0	1.093+0	9.513+0	2	2.589+0
9.620-6	2.164+1	2.207+1	1.189+0	1.093+0	9.587+0	2	2.582+0
1.101-5	2.165+1	2.208+1	1.188+0	1.093+0	9.554+0	2	2.573+0
1.307-5	2.166+1	2.208+1	1.188+0	1.093+0	9.519+0	2	2.563+0
1.468-5	2.166+1	2.209+1	1.187+0	1.092+0	9.492+0	2	2.555+0
1.581-5	2.167+1	2.210+1	1.187+0	1.092+0	9.464+0	2	2.548+0
1.758-5	2.167+1	2.210+1	1.187+0	1.092+0	9.435+0	2	2.540+0
1.882-5	2.168+1	2.211+1	1.186+0	1.092+0	9.405+0	2	2.531+0
2.075-5	2.169+1	2.212+1	1.186+0	1.092+0	9.367+0	2	2.521+0
2.277-5	2.170+1	2.213+1	1.185+0	1.092+0	9.334+0	2	2.511+0
2.477-5	2.170+1	2.213+1	1.185+0	1.092+0	9.306+0	2	2.504+0
2.561-5	2.171+1	2.214+1	1.185+0	1.092+0	9.278+0	2	2.496+0
2.710-5	2.171+1	2.214+1	1.185+0	1.092+0	9.255+0	2	2.489+0
2.862-5	2.172+1	2.215+1	1.184+0	1.092+0	9.249+0	2	2.486+0
2.940-5	2.172+1	2.215+1	1.184+0	1.092+0	9.244+0	2	2.486+0
3.099-5	2.172+1	2.215+1	1.184+0	1.092+0	9.235+0	2	2.484+0
3.345-5	2.172+1	2.215+1	1.184+0	1.092+0	9.225+0	2	2.481+0
3.601-5	2.173+1	2.216+1	1.184+0	1.092+0	9.214+0	2	2.478+0
3.866-5	2.173+1	2.216+1	1.184+0	1.092+0	9.204+0	2	2.475+0
4.048-5	2.173+1	2.216+1	1.184+0	1.092+0	9.197+0	2	2.473+0
4.234-5	2.173+1	2.216+1	1.183+0	1.092+0	9.191+0	2	2.472+0
4.329-5	2.174+1	2.217+1	1.183+0	1.092+0	9.183+0	2	2.469+0
4.619-5	2.174+1	2.217+1	1.183+0	1.091+0	9.174+0	2	2.467+0
4.717-5	2.174+1	2.217+1	1.183+0	1.091+0	9.168+0	2	2.465+0
4.918-5	2.174+1	2.217+1	1.183+0	1.091+0	9.160+0	2	2.463+0
5.123-5	2.175+1	2.218+1	1.183+0	1.091+0	9.151+0	2	2.461+0
5.332-5	2.175+1	2.218+1	1.183+0	1.091+0	9.140+0	2	2.457+0
5.654-5	2.175+1	2.218+1	1.182+0	1.091+0	9.131+0	2	2.455+0
5.763-5	2.176+1	2.219+1	1.182+0	1.091+0	9.121+0	2	2.452+0
6.097-5	2.176+1	2.219+1	1.182+0	1.091+0	9.109+0	2	2.449+0
6.325-5	2.176+1	2.219+1	1.182+0	1.091+0	9.100+0	2	2.446+0
6.557-5	2.176+1	2.220+1	1.182+0	1.091+0	9.092+0	2	2.444+0
6.674-5	2.177+1	2.220+1	1.182+0	1.091+0	9.082+0	2	2.442+0
7.033-5	2.177+1	2.220+1	1.181+0	1.091+0	9.072+0	2	2.439+0
7.155-5	2.177+1	2.221+1	1.181+0	1.091+0	9.062+0	2	2.436+0
7.527-5	2.178+1	2.221+1	1.181+0	1.091+0	9.049+0	2	2.432+0
7.780-5	2.178+1	2.221+1	1.181+0	1.091+0	9.041+0	2	2.430+0
7.909-5	2.178+1	2.221+1	1.181+0	1.090+0	9.032+0	2	2.428+0
8.167-5	2.178+1	2.222+1	1.181+0	1.090+0	9.021+0	2	2.425+0
8.431-5	2.179+1	2.222+1	1.180+0	1.090+0	9.007+0	2	2.421+0
8.833-5	2.180+1	2.223+1	1.180+0	1.090+0	8.993+0	2	2.417+0

[illegible]

ATOMIC WEIGHT		3 1972-1		DENSITY 2.0641 ± 0 GRAMS/CC				
ENERGY	WFP (CM)	CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)		
W	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	
W	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	
1.0000	1.0000	1.0000	2.352	0	2.348	0	4.420	3
1.0000	1.0000	1.0000	2.393	0	2.378	0	4.567	3
1.0000	1.0000	1.0000	2.209	0	2.204	0	4.767	3
1.0000	1.0000	1.0000	2.483	0	2.478	0	5.076	3
1.0000	1.0000	1.0000	2.545	0	2.535	0	9.550	3
1.0000	1.0000	1.0000	2.456	0	2.445	0	1.117	2
1.0000	1.0000	1.0000	2.742	0	2.709	0	3.307	2
1.0000	1.0000	1.0000	2.683	0	2.594	0	9.942	2
1.0000	1.0000	1.0000	2.545	0	2.429	0	1.169	1
1.0000	1.0000	1.0000	2.547	0	2.360	0	1.412	1
1.0000	1.0000	1.0000	3.037	0	2.678	0	1.630	1
1.0000	1.0000	1.0000	3.124	0	2.623	0	2.546	1
1.0000	1.0000	1.0000	3.147	0	2.550	0	2.936	1
1.0000	1.0000	1.0000	3.294	0	2.688	0	3.477	1
1.0000	1.0000	1.0000	3.147	0	1.081	0	4.338	1
1.0000	1.0000	1.0000	3.193	0	2.599	0	4.346	1
1.0000	1.0000	1.0000	3.164	0	2.361	0	4.102	1
1.0000	1.0000	1.0000	2.637	0	1.323	0	3.784	1
1.0000	1.0000	1.0000	2.622	0	1.862	0	3.582	1
1.0000	1.0000	1.0000	2.467	0	1.614	0	3.560	1
1.0000	1.0000	1.0000	2.325	0	1.354	0	3.792	1
1.0000	1.0000	1.0000	2.456	0	1.574	0	4.145	1
1.0000	1.0000	1.0000	2.762	0	1.776	0	4.342	1
1.0000	1.0000	1.0000	2.653	0	1.640	0	4.111	1
1.0000	1.0000	1.0000	2.469	0	1.453	0	4.490	1
1.0000	1.0000	1.0000	2.393	0	1.375	0	5.771	1
1.0000	1.0000	1.0000	2.321	0	1.302	0	6.466	1
1.0000	1.0000	1.0000	2.264	0	1.244	0	4.709	1
1.0000	1.0000	1.0000	2.233	0	1.213	0	4.747	1
1.0000	1.0000	1.0000	2.235	0	1.185	0	4.782	1
1.0000	1.0000	1.0000	2.179	0	1.155	0	4.819	1
1.0000	1.0000	1.0000	2.155	0	1.124	0	4.858	1
1.0000	1.0000	1.0000	2.131	0	1.093	0	4.897	1
1.0000	1.0000	1.0000	2.107	0	1.063	0	4.934	1
1.0000	1.0000	1.0000	2.083	0	1.047	0	4.976	1
1.0000	1.0000	1.0000	2.060	0	1.042	0	4.608	1
1.0000	1.0000	1.0000	2.037	0	1.038	0	4.397	1
1.0000	1.0000	1.0000	2.018	0	1.032	0	4.158	1
1.0000	1.0000	1.0000	2.059	0	1.027	0	3.926	1
1.0000	1.0000	1.0000	1.965	0	1.023	0	3.750	1
1.0000	1.0000	1.0000	1.953	0	1.020	0	3.618	1
1.0000	1.0000	1.0000	1.945	0	1.019	0	3.497	1
1.0000	1.0000	1.0000	1.938	0	1.018	0	3.377	1
1.0000	1.0000	1.0000	1.932	0	1.017	0	3.252	1
1.0000	1.0000	1.0000	1.926	0	1.015	0	3.095	1
1.0000	1.0000	1.0000	1.920	0	1.014	0	2.927	1
1.0000	1.0000	1.0000	1.914	0	1.011	0	2.755	1
1.0000	1.0000	1.0000	1.908	0	1.009	0	2.580	1
1.0000	1.0000	1.0000	1.902	0	1.007	0	2.403	1
1.0000	1.0000	1.0000	1.895	0	1.005	0	2.222	1
1.0000	1.0000	1.0000	1.885	0	1.002	0	1.948	1
1.0000	1.0000	1.0000	1.874	0	1.000	0	1.688	1
1.0000	1.0000	1.0000	1.864	0	1.000	0	1.432	1
1.0000	1.0000	1.0000	1.854	0	1.000	0	1.176	1
1.0000	1.0000	1.0000	1.844	0	1.000	0	0.920	1
1.0000	1.0000	1.0000	1.834	0	1.000	0	0.664	1
1.0000	1.0000	1.0000	1.824	0	1.000	0	0.408	1
1.0000	1.0000	1.0000	1.814	0	1.000	0	0.152	1
1.0000	1.0000	1.0000	1.804	0	1.000	0	0.096	1
1.0000	1.0000	1.0000	1.794	0	1.000	0	0.040	1
1.0000	1.0000	1.0000	1.784	0	1.000	0	0.004	1
1.0000	1.0000	1.0000	1.774	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.764	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.754	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.744	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.734	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.724	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.714	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.704	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.694	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.684	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.674	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.664	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.654	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.644	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.634	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.624	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.614	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.604	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.594	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.584	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.574	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.564	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.554	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.544	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.534	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.524	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.514	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.504	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.494	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.484	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.474	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.464	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.454	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.444	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.434	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.424	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.414	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.404	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.394	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.384	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.374	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.364	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.354	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.344	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.334	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.324	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.314	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.304	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.294	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.284	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.274	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.264	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.254	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.244	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.234	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.224	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.214	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.204	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.194	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.184	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.174	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.164	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.154	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.144	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.134	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.124	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.114	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.104	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.094	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.084	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.074	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.064	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.054	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.044	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.034	0	1.000	0	0.000	1
1.0000	1.0000	1.0000	1.024	0	1.000			

04/12/76

ENDL 175 Group Neutron Constants

17-Cl-Nat

04/12/76

ENDL 175 Group Neutron Constants

17-C1-Nat

ATOMIC WEIGHT		3.54533		DENSITY 3.2100 3.000000									
ENERGY		M.P. (C)		CROSS SECTION (BARN)									
MEV		TOTAL TRANSPORT		TOTAL		ELASTIC		ABSORPTN		REMAINDER		CAP-PROD	
												TOTAL	
												LOCAL	

04/12/76

ENDL 175 Group Neutron Constants

18-Ar-Nat

04/12/78

ENDL 175 Group Neutron Constants

18-Ar-Nat

ATOMIC WEIGHT 3.99841

DENSITY 1.6260-3 GRAMS/CC

ENERGY MEV	REF (CM)		CROSS SECTION (BARNS)					ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
0.0000	1.561E+4	1.568E+4	2.61E+0	7.18E+0	1.89E+0	0	5.78E+0	4.42E+0	3.53E+0
0.0001	1.461E+4	2.47E+4	1.65E+0	7.00E+0	1.57E+0	0	2.92E+0	3.52E+0	2.81E+0
0.0005	3.04E+4	3.06E+4	1.34E+0	6.89E+0	6.51E+0	0	1.98E+0	2.96E+0	2.36E+0
0.0010	3.31E+4	3.34E+4	1.23E+0	6.84E+0	5.46E+0	0	1.66E+0	2.70E+0	2.16E+0
0.0020	3.71E+4	3.75E+4	1.09E+0	6.91E+0	4.16E+0	0	1.27E+0	2.31E+0	1.84E+0
0.0030	4.02E+4	4.07E+4	1.01E+0	7.03E+0	3.10E+0	0	9.47E+0	1.87E+0	1.45E+0
0.0040	4.27E+4	4.32E+4	9.54E+0	6.99E+0	2.64E+0	0	8.07E+0	1.69E+0	1.35E+0
0.0050	4.52E+4	4.59E+4	8.99E+0	6.75E+0	2.24E+0	0	6.83E+0	1.52E+0	1.21E+0
0.0060	4.78E+4	4.78E+4	8.64E+0	6.72E+0	1.92E+0	0	5.85E+0	1.35E+0	1.08E+0
0.0070	4.83E+4	4.89E+4	8.44E+0	6.73E+0	1.71E+0	0	5.21E+0	1.23E+0	9.88E+0
0.0080	4.93E+4	4.95E+4	8.26E+0	6.74E+0	1.52E+0	0	4.63E+0	1.12E+0	8.97E+0
0.0090	5.10E+4	5.18E+4	7.98E+0	6.67E+0	1.31E+0	0	4.00E+0	1.00E+0	8.02E+0
0.0100	5.34E+4	5.41E+4	7.64E+0	6.55E+0	1.08E+0	0	3.31E+0	8.66E+0	6.94E+0
0.0120	5.68E+4	5.75E+4	7.46E+0	6.50E+0	9.52E+0	0	2.90E+0	7.70E+0	6.24E+0
0.0140	5.60E+4	5.69E+4	7.27E+0	6.46E+0	8.09E+0	0	2.47E+0	6.78E+0	5.45E+0
0.0160	5.73E+4	5.82E+4	7.11E+0	6.42E+0	6.89E+0	0	2.10E+0	5.91E+0	4.75E+0
0.0180	5.85E+4	5.91E+4	7.00E+0	6.39E+0	6.08E+0	0	1.85E+0	5.29E+0	4.27E+0
0.0200	5.89E+4	5.96E+4	6.96E+0	6.40E+0	5.64E+0	0	1.72E+0	4.93E+0	3.99E+0
0.0220	5.90E+4	5.97E+4	6.93E+0	6.41E+0	5.20E+0	0	1.58E+0	4.57E+0	3.71E+0
0.0240	5.91E+4	5.99E+4	6.91E+0	6.41E+0	4.78E+0	0	1.45E+0	4.22E+0	3.44E+0
0.0260	5.94E+4	6.01E+4	6.87E+0	6.44E+0	4.24E+0	0	1.29E+0	3.76E+0	3.08E+0
0.0280	5.97E+4	6.08E+4	6.83E+0	6.46E+0	3.55E+0	0	1.11E+0	3.26E+0	2.63E+0
0.0300	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.24E+0	0	9.89E+0	2.90E+0	2.42E+0
0.0320	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.19E+0	0	9.75E+0	2.86E+0	2.40E+0
0.0340	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.16E+0	0	9.66E+0	2.84E+0	2.39E+0
0.0360	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.14E+0	0	9.59E+0	2.82E+0	2.38E+0
0.0380	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.12E+0	0	9.52E+0	2.80E+0	2.36E+0
0.0400	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.09E+0	0	9.45E+0	2.77E+0	2.35E+0
0.0420	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.07E+0	0	9.37E+0	2.75E+0	2.34E+0
0.0440	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.04E+0	0	9.28E+0	2.72E+0	2.33E+0
0.0460	5.99E+4	6.09E+4	6.80E+0	6.48E+0	3.01E+0	0	9.19E+0	2.70E+0	2.32E+0
0.0480	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.99E+0	0	9.10E+0	2.68E+0	2.31E+0
0.0500	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.97E+0	0	9.02E+0	2.66E+0	2.30E+0
0.0520	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.96E+0	0	8.94E+0	2.64E+0	2.29E+0
0.0540	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.94E+0	0	8.86E+0	2.62E+0	2.28E+0
0.0560	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.92E+0	0	8.78E+0	2.60E+0	2.27E+0
0.0580	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.90E+0	0	8.70E+0	2.58E+0	2.26E+0
0.0600	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.87E+0	0	8.62E+0	2.56E+0	2.25E+0
0.0620	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.85E+0	0	8.54E+0	2.54E+0	2.24E+0
0.0640	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.83E+0	0	8.46E+0	2.52E+0	2.23E+0
0.0660	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.81E+0	0	8.38E+0	2.50E+0	2.22E+0
0.0680	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.79E+0	0	8.30E+0	2.48E+0	2.21E+0
0.0700	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.77E+0	0	8.22E+0	2.46E+0	2.20E+0
0.0720	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.75E+0	0	8.14E+0	2.44E+0	2.19E+0
0.0740	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.73E+0	0	8.06E+0	2.42E+0	2.18E+0
0.0760	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.71E+0	0	7.98E+0	2.40E+0	2.17E+0
0.0780	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.69E+0	0	7.90E+0	2.38E+0	2.16E+0
0.0800	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.67E+0	0	7.82E+0	2.36E+0	2.15E+0
0.0820	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.65E+0	0	7.74E+0	2.34E+0	2.14E+0
0.0840	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.63E+0	0	7.66E+0	2.32E+0	2.13E+0
0.0860	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.61E+0	0	7.58E+0	2.30E+0	2.12E+0
0.0880	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.59E+0	0	7.50E+0	2.28E+0	2.11E+0
0.0900	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.57E+0	0	7.42E+0	2.26E+0	2.10E+0
0.0920	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.55E+0	0	7.34E+0	2.24E+0	2.09E+0
0.0940	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.53E+0	0	7.26E+0	2.22E+0	2.08E+0
0.0960	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.51E+0	0	7.18E+0	2.20E+0	2.07E+0
0.0980	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.49E+0	0	7.10E+0	2.18E+0	2.06E+0
0.1000	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.47E+0	0	7.02E+0	2.16E+0	2.05E+0
0.1020	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.45E+0	0	6.94E+0	2.14E+0	2.04E+0
0.1040	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.43E+0	0	6.86E+0	2.12E+0	2.03E+0
0.1060	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.41E+0	0	6.78E+0	2.10E+0	2.02E+0
0.1080	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.39E+0	0	6.70E+0	2.08E+0	2.01E+0
0.1100	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.37E+0	0	6.62E+0	2.06E+0	2.00E+0
0.1120	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.35E+0	0	6.54E+0	2.04E+0	1.99E+0
0.1140	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.33E+0	0	6.46E+0	2.02E+0	1.98E+0
0.1160	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.31E+0	0	6.38E+0	2.00E+0	1.97E+0
0.1180	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.29E+0	0	6.30E+0	1.98E+0	1.96E+0
0.1200	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.27E+0	0	6.22E+0	1.96E+0	1.95E+0
0.1220	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.25E+0	0	6.14E+0	1.94E+0	1.94E+0
0.1240	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.23E+0	0	6.06E+0	1.92E+0	1.93E+0
0.1260	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.21E+0	0	5.98E+0	1.90E+0	1.92E+0
0.1280	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.19E+0	0	5.90E+0	1.88E+0	1.91E+0
0.1300	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.17E+0	0	5.82E+0	1.86E+0	1.90E+0
0.1320	5.99E+4	6.09E+4	6.80E+0	6.48E+0	2.15E+0	0	5.74E+0	1.84E+0	1.89E+0
 								

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ENDL 175 Group Neutron Constants

18-Ar-Nat

ATOMIC WEIGHT		3.9948 * 1		DENSITY		1.6260 - 3 GRAMS/CC		
ENERGY		MFP (CM)		CROSS SECTION (BARNs)		ENERGY DEPOSIT (MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC ABSORPTN REMAINDER GAM-PROD.	TOTAL	LOCAL	
9.10E-5	5.9984	6.0984	6.8011	6.6101	1.9161	5.0451	1.7191	2.0581
9.38E-5	5.9984	6.0984	6.8011	6.6141	1.8721	5.7091	1.6791	2.0411
9.66E-5	5.9984	6.0984	6.8011	6.6171	1.8381	5.6081	1.6491	2.0281
9.811E-5	5.9994	6.0984	6.8011	6.6221	1.7921	5.4661	1.6071	2.0101
1.02E-4	5.9994	6.0994	6.8011	6.6311	1.7491	5.1791	1.5231	1.9721
1.09E-4	5.9994	6.0994	6.8011	6.6431	1.5771	4.8111	1.4151	1.9201
1.17E-4	5.9994	6.0994	6.8011	6.6551	1.4521	4.4301	1.3031	1.8641
1.25E-4	5.9994	6.1004	6.8001	6.6681	1.3231	4.0371	1.1871	1.8041
1.35E-4	5.9994	6.1004	6.8001	6.6801	1.2041	3.6721	1.0801	1.7461
1.40E-4	5.9994	6.1004	6.8001	6.6931	1.0871	3.2561	0.9761	1.6761
1.511E-4	5.9974	6.0994	6.8021	6.7021	1.0001	3.0501	0.9001	1.6741
1.601E-4	5.9944	6.0954	6.8061	6.7061	0.9991	3.0501	0.9031	1.7301
1.694E-4	5.9904	6.0914	6.8101	6.7101	0.9991	3.0501	0.9571	1.7871
1.789E-4	5.9874	6.0884	6.8141	6.7141	0.9981	3.0491	0.9511	1.8461
1.887E-4	5.9834	6.0844	6.8181	6.7181	0.9971	3.0491	0.9451	1.9061
1.988E-4	5.9794	6.0804	6.8231	6.7231	0.9971	3.0491	0.9391	1.9691
2.091E-4	5.9654	6.0664	6.8391	6.7391	0.9951	3.0491	0.9161	2.0191
2.241E-4	5.9434	6.0444	6.8841	6.7641	0.9911	3.0481	0.8811	2.0591
2.367E-4	5.9244	6.0244	6.8871	6.7871	0.9881	3.0471	0.8491	2.0871
3.011E-4	5.8984	5.9974	6.9171	6.8181	0.9841	3.0451	0.8071	2.3131
4.704E-4	5.8764	5.9754	6.9451	6.8431	0.9811	3.0441	0.7731	3.6701
4.991E-4	5.8594	5.9584	6.9631	6.8631	0.9781	3.0441	0.7451	3.9571
5.658E-4	5.8404	5.9394	6.9851	6.8851	0.9751	3.0431	0.7151	4.2741
6.042E-4	5.8284	5.9264	6.9841	6.9011	0.9731	3.0421	0.6991	4.4811
6.367E-4	5.8084	5.9064	7.0241	6.9241	0.9701	3.0411	0.6621	4.6211
7.156E-4	5.7744	5.8714	7.0561	6.9661	0.9641	3.0391	0.6071	5.4071
8.322E-4	5.7394	5.8364	7.1091	7.0091	0.9591	3.0381	0.5511	6.0111
9.177E-4	5.7004	5.7974	7.1571	7.0571	0.9521	3.0361	0.4881	6.6861
1.058E-3	5.6354	5.7304	7.2401	7.1401	0.9411	3.0331	0.3831	7.8431
1.307E-3	5.5504	5.6434	7.3511	7.2521	0.9261	3.0281	0.2461	9.3861
1.581E-3	5.4594	5.5514	7.4721	7.3741	0.9101	3.0231	0.0991	1.1071
1.882E-3	5.3634	5.4544	7.6071	7.5081	0.8921	3.0181	7.9441	1.2901
2.208E-3	5.2634	5.3524	7.7521	7.6531	0.8721	3.0121	7.7831	1.4871
2.561E-3	5.1594	5.2464	7.9071	7.8091	0.8511	3.0061	7.6161	1.6971
2.940E-3	5.0534	5.1384	8.0741	7.9761	0.8291	2.9991	7.4441	1.9201
3.345E-3	4.9444	5.0274	8.2521	8.1541	0.8051	2.9921	7.2691	2.1571
3.777E-3	4.8334	4.9154	8.4421	8.3441	0.7791	2.9851	7.0901	2.4061
4.234E-3	4.7204	4.8024	8.6451	8.5471	0.7531	2.9681	6.9201	2.6611
5.763E-3	4.2654	4.3374	9.5661	9.4691	0.6281	2.9401	6.1781	3.8581
7.527E-3	3.8774	3.9434	1.0524	1.0434	0.5001	2.9021	5.5581	5.0571
1.02E-2	3.2384	3.2944	1.2604	1.2514	0.2831	2.8371	4.5651	7.0101
1.511E-2	2.5904	2.6494	1.5764	1.5664	0.0791	2.7461	3.5731	9.5861
2.091E-2	2.4094	2.4604	1.6994	1.6894	0.6341	2.6491	3.2401	1.2341
2.84E-2	2.2204	2.2684	1.8864	1.8774	0.3171	2.5491	3.1631	1.5261
3.267E-2	2.4334	2.4844	1.6764	1.6694	0.7941	2.4371	3.0751	1.8471
3.953E-2	2.4484	2.4964	1.6664	1.6594	0.7321	2.3131	2.8771	2.1981
4.704E-2	2.4674	2.5134	1.6544	1.6474	0.7151	2.1571	2.8511	2.6341
5.761E-2	2.4914	2.6194	1.6384	1.6324	0.3581	1.9591	2.6861	3.1821
7.007E-2	2.5184	2.6614	1.6204	1.6154	0.5261	1.7371	2.4961	3.7771
8.322E-2	2.5504	2.7094	1.6004	1.5954	0.7991	1.4851	2.2711	4.4121
9.891E-2	2.5754	2.7544	1.5844	1.5814	0.4421	1.0691	1.9681	5.4191
1.307E-1	2.5074	2.7154	1.6284	1.6264	0.1701	6.1591	1.4531	7.1451
1.820E-1	2.4384	2.6974	1.6734	1.6724	0.1751	5.5081	1.5111	8.7261
2.075E-1	2.3874	2.6694	1.7094	1.7074	0.1616	5.1041	1.5711	9.9391
2.417E-1	2.3354	2.6494	1.7474	1.7464	0.15001	4.7641	1.6411	1.1161
2.710E-1	2.2944	2.6364	1.7784	1.7774	0.14781	4.7131	1.7241	1.2171
2.940E-1	2.2494	2.6264	1.7374	1.7354	0.14571	4.6381	1.8461	1.3331
3.345E-1	2.2764	2.5164	1.3714	1.3704	0.14291	4.6081	2.1221	1.4951
3.777E-1	2.3924	2.7494	1.0354	1.0334	0.14001	4.5421	2.7991	1.6521
5.234E-1	3.2114	3.8784	1.2704	1.2694	0.13551	4.4411	2.4921	1.8401
5.123E-1	2.1774	2.8694	1.8744	1.8734	0.12851	4.2781	2.5841	2.1651
6.32E-1	2.0594	2.7714	1.9924	1.9904	0.12051	4.0821	2.9221	2.5501

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ENDL 175 Group Neutron Constants

18-Ar-Nat

ATOMIC WEIGHT 3.9948+1		DENSITY 1.6260-3 GRAMS/CC							
ENERGY	MFP (CM)	CROSS SECTION (BARNES)					ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
5.27-	2.951+4	3.934+4	1.382+0	1.381+0	1.121-3	3.987-3	3.563-2	3.067-2	2.957-2
4.894	2.237+4	3.569+4	1.824+0	1.823+0	1.032-3	3.627-3	3.903-2	3.557-2	3.427-2
4.325+	5.61+4	3.710+4	2.457+0	2.456+0	9.875-4	3.542-3	4.298-2	4.051-2	3.901-2
4.176+	5.14+4	3.485+4	2.694+0	2.693+0	9.679-4	3.546-3	4.815-2	4.595-2	4.446-2
4.349+	3.30+4	3.162+4	3.069+0	3.068+0	9.470-4	3.611+3	5.319-2	5.126-2	4.977-2
4.511+	5.04+4	3.666+4	2.713+0	2.691+0	9.247-4	2.127-2	6.875-2	6.628-2	6.479-2
4.694+	2.11+4	3.923+4	3.369+0	3.308+0	9.012-4	6.046-2	8.694-2	8.150-2	7.901-2
4.887+	1.77+4	2.923+4	3.558+0	3.446+0	8.764-4	1.106-1	1.126-1	6.665-2	6.516-2
5.091+	1.77+4	2.903+4	3.566+0	3.356+0	8.503-4	2.090-1	1.589-1	7.126-2	6.977-2
5.305+	1.38+4	2.849+4	3.586+0	3.266+0	8.236-4	3.187-1	2.249-1	7.600-2	7.451-2
5.532+	1.21+4	2.762+4	3.639+0	3.200+0	8.498-4	4.387-1	3.135-1	8.027-2	7.878-2
5.741+	1.08+4	2.637+4	3.553+0	2.952+0	8.159-4	6.005-1	4.689-1	9.818-2	9.670-2
5.911+	1.23+4	2.680+4	3.362+0	2.586+0	9.882-4	7.754-1	6.754-1	8.867-2	8.718-2
6.067+	1.24+4	2.659+4	3.291+0	2.407+0	1.050-3	9.821-1	8.200-1	9.299-2	9.150-2
6.533+	2.40+4	2.632+4	2.283+0	2.322+0	1.135-3	9.663-1	9.442-1	9.596-2	9.449-2
6.811+	1.24+4	2.603+4	3.269+0	2.239+0	1.208-3	1.049+0	1.074+0	9.732-2	9.583-2
7.069+	1.25+4	2.569+4	3.264+0	2.162+0	1.289-3	1.121+0	1.285+0	9.818-2	9.669-2
7.396+	1.25+4	2.598+4	3.251+0	2.125+0	1.376-3	1.125+0	1.372+0	9.825-2	9.676-2
7.704+	1.26+4	2.637+4	3.217+0	2.099+0	1.458-3	1.120+0	1.369+0	9.743-2	9.594-2
8.091+	1.253+4	2.650+4	3.257+0	2.140+0	1.839-3	1.115+0	1.441+0	9.520-2	9.371-2
8.553+	2.71+4	2.706+4	3.209+0	2.096+0	2.497-3	1.110+0	1.476+0	9.249-2	9.100-2
9.058+	3.15+4	2.766+4	3.102+0	1.994+0	3.178-3	1.105+0	1.512+0	8.935-2	8.786-2
9.642+	3.30+4	2.875+4	2.899+0	1.895+0	3.877-3	1.100+0	1.550+0	8.215-2	8.066-2
10.367+	3.92+4	2.877+4	2.931+0	1.830+0	4.562-3	1.097+0	1.586+0	9.947-2	9.798-2
11.273+	4.47+4	2.922+4	2.859+0	1.760+0	5.331-3	1.094+0	1.628+0	1.081+0	1.066+0
12.356+	4.65+4	2.970+4	2.785+0	1.688+0	6.024-3	1.090+0	1.676+0	1.172+0	1.157+0
13.559+	4.502+4	3.015+4	2.715+0	1.622+0	6.862-3	1.087+0	1.722+0	1.261+0	1.242+0
14.910+	4.543+4	3.060+4	2.645+0	1.554+0	7.402-3	1.083+0	1.769+0	2.886+0	2.867+0
16.322+	4.591+4	3.096+4	2.564+0	1.475+0	8.949-3	1.080+0	1.822+0	2.674+0	2.655+0
17.787+	4.641+4	3.128+4	2.497+0	1.411+0	9.798-3	1.076+0	1.874+0	2.867+0	2.848+0
19.377+	4.694+4	3.159+4	2.408+0	1.323+0	1.210-2	1.072+0	1.927+0	3.076+0	3.057+0
21.065+	4.756+4	3.193+4	2.323+0	1.240+0	1.472-2	1.068+0	1.981+0	3.305+0	3.286+0
22.912+	4.822+4	3.227+4	2.246+0	1.159+0	1.641-2	1.064+0	1.952+0	3.511+0	3.492+0
24.866+	4.886+4	3.266+4	2.163+0	1.080+0	1.774-2	1.065+0	1.893+0	3.780+0	3.761+0
26.941+	4.959+4	3.263+4	2.082+0	9.752-2	1.917-2	1.068+0	1.830+0	4.052+0	4.033+0
29.155+	5.040+4	3.279+4	2.000+0	9.088-2	2.063-2	1.071+0	1.786+0	4.351+0	4.332+0
31.499+	5.069+4	3.314+4	1.972+0	8.931-2	2.204-2	1.057+0	1.703+0	4.476+0	4.457+0
33.960+	5.035+4	3.345+4	2.005+0	9.528-2	2.364-2	1.029+0	1.633+0	4.291+0	4.272+0
36.547+	5.003+4	3.351+4	2.037+0	1.001+0	2.519-2	1.011+0	1.565+0	3.797+0	3.778+0
39.266+	4.986+4	3.353+4	2.054+0	1.029+0	2.636-2	9.989-1	1.513+0	3.287+0	3.268+0
42.118+	4.972+4	3.349+4	2.069+0	1.050+0	2.726-2	9.921-1	1.475+0	2.946+0	2.927+0
45.113+	4.947+4	3.315+4	2.095+0	1.069+0	2.806-2	9.993-1	1.450+0	2.814+0	2.795+0
48.241+	4.923+4	3.292+4	2.122+0	1.093+0	2.888-2	1.000+0	1.427+0	2.790+0	2.771+0
51.506+	4.927+4	3.286+4	2.124+0	1.094+0	2.991-2	1.000+0	1.394+0	2.780+0	2.761+0
54.919+	4.930+4	3.285+4	2.114+0	1.084+0	2.994+0	1.200+0	1.348+0	2.783+0	2.764+0
58.475+	4.943+4	3.286+4	2.103+0	1.073+0	2.959+0	1.200+0	1.299+0	2.817+0	2.798+0
62.173+	4.950+4	3.292+4	2.092+0	1.062+0	2.921+0	1.200+0	1.249+0	2.980+0	2.961+0
66.012+	4.961+4	3.303+4	2.080+0	1.051+0	2.884+0	1.200+0	1.198+0	3.163+0	3.144+0
70.001+	4.972+4	3.314+4	2.069+0	1.040+0	2.846+0	1.000+0	1.147+0	3.341+0	3.322+0
74.133+	4.993+4	3.326+4	2.057+0	1.029+0	2.807+0	1.000+0	1.094+0	3.515+0	3.496+0
78.415+	5.001+4	3.343+4	2.039+0	1.012+0	2.749+0	1.000+0	1.014+0	3.783+0	3.764+0
2.000+									
RESONANCE INTEGRALS		2.314+1	2.061+1	3.925+1	2.134+0	4.114+0			
MAXWELLIAN AVERAGES		1.278+0	6.904+0	1.576+1		1.792+0			
1/E AVERAGES		1.322+0	1.178+0	2.242+2	2.219+1	2.350+1			
FISSION AVERAGES		2.712+0	2.406+0	1.422+3	3.050+1	3.850+1			
FUSION AVERAGES		2.079+0	1.054+0	2.744+2	9.981+1	1.474+0			

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ATOMIC WEIGHT			3.9102+1			DENSITY			8.6000-1 GRAMS/CC		
ENERGY		TOTAL (CM)		CROSS SECTION (BARN)			ENERGY DEPOSIT (MEV)				
MEV	TOTAL	TRANSPOR	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
1.307-9	9.448-0	9.407-0	7.991-0	1.900-0	6.091-0	1.645-1	5.945-0	6.204-4			
5.227-9	1.528-1	1.538-1	4.90-0	1.900-0	3.040-0	8.208-1	4.800-0	5.009-4			
2.091-8	1.924-1	1.940-1	3.924-0	1.900-0	2.024-0	5.465-0	4.023-0	4.199-4			
3.267-8	2.127-1	2.147-1	3.549-0	1.900-0	1.649-0	4.453-0	3.624-0	3.782-4			
4.704-8	2.366-1	2.391-1	3.190-0	1.900-0	1.290-0	3.484-0	3.156-0	3.292-4			
6.322-8	2.606-1	2.636-1	2.891-0	1.900-0	9.974-1	2.693-0	2.696-0	2.802-4			
1.307-7	2.795-1	2.819-1	2.711-0	1.900-0	8.113-1	2.191-0	2.334-0	2.436-4			
1.882-7	2.922-1	2.959-1	2.584-0	1.900-0	6.638-1	1.846-0	2.064-0	2.155-4			
2.561-7	3.031-1	3.072-1	2.491-0	1.900-0	5.906-1	1.595-0	1.850-0	1.931-4			
3.345-7	3.120-1	3.163-1	2.470-0	1.900-0	5.197-1	1.403-0	1.675-0	1.749-4			
4.234-7	3.191-1	3.235-1	2.766-0	1.900-0	4.662-1	1.259-0	1.537-0	1.605-4			
5.123-7	3.281-1	3.328-1	2.301-0	1.900-0	4.010-1	1.083-0	1.359-0	1.420-4			
7.527-7	3.595-1	3.646-1	2.224-0	1.900-0	3.237-1	8.740-1	1.135-0	1.187-4			
1.176-6	3.746-1	3.529-1	2.172-0	1.900-0	2.721-1	7.347-1	9.771-1	1.022-4			
1.511-6	3.537-1	3.592-1	2.135-0	1.900-0	2.347-1	6.338-1	8.577-1	8.878-5			
2.091-6	3.592-1	3.649-1	2.102-0	1.900-0	2.017-1	5.447-1	7.487-1	7.846-5			
2.741-6	3.636-1	3.694-1	2.076-0	1.900-0	1.764-1	4.764-1	6.628-1	6.956-5			
3.533-6	3.677-1	3.736-1	2.054-0	1.900-0	1.536-1	4.147-1	5.833-1	6.136-5			
4.704-6	3.708-1	3.769-1	2.036-0	1.900-0	1.363-1	3.681-1	5.222-1	5.507-5			
5.658-6	3.729-1	3.791-1	2.024-0	1.900-0	1.244-1	3.360-1	4.794-1	5.069-5			
6.737-6	3.751-1	3.813-1	2.013-0	1.900-0	1.127-1	3.042-1	4.367-1	4.633-5			
8.322-6	3.769-1	3.832-1	2.003-0	1.900-0	1.029-1	2.780-1	4.009-1	4.270-5			
9.620-6	3.783-1	3.846-1	1.996-0	1.900-0	9.584-2	2.588-1	3.746-1	4.005-5			
1.101-5	3.797-1	3.860-1	1.989-0	1.900-0	8.859-2	2.392-1	3.475-1	3.735-5			
1.307-5	3.809-1	3.872-1	1.982-0	1.900-0	8.233-2	2.221-1	3.239-1	3.502-5			
1.468-5	3.816-1	3.880-1	1.978-0	1.900-0	7.843-2	2.118-1	3.092-1	3.357-5			
1.591-5	3.823-1	3.887-1	1.975-0	1.900-0	7.488-2	2.022-1	2.957-1	3.227-5			
1.758-5	3.829-1	3.894-1	1.972-0	1.900-0	7.163-2	1.934-1	2.834-1	3.107-5			
1.882-5	3.835-1	3.900-1	1.969-0	1.900-0	6.865-2	1.854-1	2.720-1	2.999-5			
2.075-5	3.841-1	3.906-1	1.965-0	1.900-0	6.539-2	1.765-1	2.595-1	2.882-5			
2.277-5	3.846-1	3.911-1	1.963-0	1.900-0	6.291-2	1.699-1	2.500-1	2.793-5			
2.417-5	3.850-1	3.915-1	1.961-0	1.900-0	6.101-2	1.647-1	2.427-1	2.726-5			
2.561-5	3.853-1	3.919-1	1.959-0	1.900-0	5.929-2	1.601-1	2.360-1	2.666-5			
2.710-5	3.857-1	3.922-1	1.958-0	1.900-0	5.759-2	1.555-1	2.295-1	2.607-5			
2.862-5	3.859-1	3.925-1	1.956-0	1.900-0	5.643-2	1.524-1	2.240-1	2.567-5			
2.946-5	3.861-1	3.927-1	1.955-0	1.900-0	5.530-2	1.493-1	2.206-1	2.529-5			
3.099-5	3.865-1	3.931-1	1.953-0	1.900-0	5.347-2	1.444-1	2.135-1	2.468-5			
3.249-5	3.869-1	3.935-1	1.951-0	1.900-0	5.146-2	1.389-1	2.057-1	2.401-5			
3.501-5	3.873-1	3.939-1	1.950-0	1.900-0	4.961-2	1.339-1	1.985-1	2.342-5			
3.866-5	3.876-1	3.942-1	1.948-0	1.900-0	4.812-2	1.299-1	1.927-1	2.295-5			
4.048-5	3.878-1	3.944-1	1.947-0	1.900-0	4.705-2	1.270-1	1.885-1	2.262-5			
4.234-5	3.879-1	3.946-1	1.946-0	1.900-0	4.624-2	1.248-1	1.853-1	2.238-5			
4.329-5	3.881-1	3.948-1	1.945-0	1.900-0	4.521-2	1.221-1	1.813-1	2.207-5			
4.619-5	3.883-1	3.950-1	1.944-0	1.900-0	4.425-2	1.195-1	1.775-1	2.179-5			
4.717-5	3.885-1	3.951-1	1.944-0	1.900-0	4.352-2	1.175-1	1.747-1	2.158-5			
4.918-5	3.887-1	3.953-1	1.943-0	1.900-0	4.262-2	1.151-1	1.711-1	2.134-5			
5.123-5	3.888-1	3.955-1	1.942-0	1.900-0	4.175-2	1.127-1	1.677-1	2.110-5			
5.332-5	3.890-1	3.957-1	1.941-0	1.900-0	4.070-2	1.099-1	1.635-1	2.083-5			
5.694-5	3.892-1	3.959-1	1.940-0	1.900-0	3.992-2	1.078-1	1.605-1	2.063-5			
5.763-5	3.893-1	3.960-1	1.939-0	1.900-0	3.913-2	1.057-1	1.574-1	2.044-5			
5.897-5	3.895-1	3.962-1	1.938-0	1.900-0	3.823-2	1.032-1	1.539-1	2.023-5			
6.325-5	3.897-1	3.964-1	1.938-0	1.900-0	3.752-2	1.013-1	1.510-1	2.007-5			
6.557-5	3.899-1	3.965-1	1.937-0	1.900-0	3.699-2	9.907-2	1.489-1	1.935-5			
6.674-5	3.899-1	3.966-1	1.936-0	1.900-0	3.635-2	9.814-2	1.464-1	1.903-5			
7.034-5	3.900-1	3.967-1	1.936-0	1.900-0	3.571-2	9.642-2	1.439-1	1.870-5			
7.155-5	3.902-1	3.969-1	1.935-0	1.900-0	3.508-2	9.472-2	1.414-1	1.858-5			
7.527-5	3.903-1	3.970-1	1.934-0	1.900-0	3.436-2	9.276-2	1.389-1	1.846-5			
7.780-5	3.904-1	3.971-1	1.934-0	1.900-0	3.392-2	9.159-2	1.368-1	1.839-5			
7.908-5	3.905-1	3.972-1	1.933-0	1.900-0	3.349-2	9.041-2	1.351-1	1.832-5			
8.167-5	3.906-1	3.973-1	1.933-0	1.900-0	3.296-2	8.890-2	1.330-1	1.825-5			
8.431-5	3.907-1	3.974-1	1.932-0	1.900-0	3.230-2	8.722-2	1.304-1	1.817-5			
8.834-5	3.909-1	3.976-1	1.932-0	1.900-0	3.166-2	8.547-2	1.278-1	1.809-5			

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ATOMIC WEIGHT 3.91024 1		DENSITY 8.6000-1 GRAMS/CC							
ENERGY		HFP (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)	
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.108-5	3.910+1 3.977+1	1.931+0	1.900+0	3.119-2			8.421-2	1.260-1 1.906-5	
9.386-5	3.910+1 3.978+1	1.931+0	1.900+0	3.071-2			8.293-2	1.241-1 1.902-5	
9.668-5	3.911+1 3.979+1	1.930+0	1.900+0	3.035-2			8.196-2	1.227-1 1.899-5	
9.811-5	3.912+1 3.979+1	1.930+0	1.900+0	2.991-2			8.076-2	1.209-1 1.896-5	
1.025-4	3.914+1 3.981+1	1.929+0	1.900+0	2.905-2			7.849-2	1.175-1 1.894-5	
1.093-4	3.916+1 3.983+1	1.928+0	1.900+0	2.805-2			7.573-2	1.135-1 1.894-5	
1.176-4	3.918+1 3.985+1	1.927+0	1.900+0	2.710-2			7.318-2	1.097-1 1.899-5	
1.256-4	3.920+1 3.987+1	1.926+0	1.900+0	2.622-2			7.080-2	1.062-1 1.907-5	
1.338-4	3.921+1 3.989+1	1.925+0	1.900+0	2.548-2			6.881-2	1.032-1 1.917-5	
1.406-4	3.923+1 3.990+1	1.925+0	1.900+0	2.470-2			6.669-2	1.001-1 1.932-5	
1.511-4	3.924+1 3.992+1	1.924+0	1.900+0	2.389-2			6.451-2	9.687-2 1.951-5	
1.601-4	3.926+1 3.994+1	1.923+0	1.900+0	2.320-2			6.265-2	9.412-2 1.973-5	
1.694-4	3.927+1 3.995+1	1.923+0	1.900+0	2.256-2			6.091-2	9.153-2 1.997-5	
1.789-4	3.928+1 3.996+1	1.922+0	1.900+0	2.194-2			5.923-2	8.904-2 2.023-5	
1.887-4	3.930+1 3.997+1	1.921+0	1.900+0	2.136-2			5.767-2	8.672-2 2.053-5	
1.988-4	3.930+1 3.999+1	1.921+0	1.900+0	2.100-2			5.670-2	8.527-2 2.095-5	
2.091-4	3.930+1 3.999+1	1.921+0	1.900+0	2.094-2			5.654-2	8.504-2 2.314-5	
2.741-4	3.931+1 3.999+1	1.921+0	1.900+0	2.085-2			5.630-2	8.469-2 2.657-5	
3.267-4	3.931+1 3.999+1	1.921+0	1.900+0	2.077-2			5.609-2	8.437-2 2.677-5	
3.811-4	3.931+1 3.999+1	1.921+0	1.900+0	2.067-2			5.582-2	8.399-2 3.385-5	
4.704-4	3.931+1 3.999+1	1.921+0	1.900+0	2.062-2			5.568-2	8.378-2 3.730-5	
4.991-4	3.931+1 3.999+1	1.921+0	1.900+0	2.059-2			5.558-2	8.364-2 4.008-5	
5.658-4	3.931+1 3.999+1	1.921+0	1.900+0	2.055-2			5.548-2	8.349-2 4.315-5	
6.042-4	3.931+1 3.999+1	1.921+0	1.900+0	2.052-2			5.541-2	8.338-2 4.522-5	
6.367-4	3.931+1 3.999+1	1.920+0	1.900+0	2.049-2			5.530-2	8.322-2 4.847-5	
7.156-4	3.931+1 4.000+1	1.920+0	1.900+0	2.041-2			5.512-2	8.295-2 5.416-5	
8.322-4	3.932+1 4.000+1	1.920+0	1.900+0	2.036-2			5.499-2	8.276-2 6.007-5	
9.177-4	3.912+1 3.982+1	1.930+0	1.910+0	2.032-2			5.486-2	8.216-2 6.660-5	
1.058-3	3.654+1 3.717+1	2.066+0	2.046+0	2.023-2			5.464-2	7.844-2 7.670-5	
1.307-3	3.318+1 3.376+1	2.275+0	2.255+0	2.015-2			5.440-2	6.914-2 8.987-5	
1.581-3	3.014+1 3.025+1	2.505+0	2.485+0	2.007-2			5.420-2	6.259-2 1.043-4	
1.882-3	2.653+1 2.632+1	2.846+0	2.826+0	1.996-2			5.390-2	5.482-2 1.194-4	
2.208-3	2.128+1 2.165+1	3.547+0	3.527+0	1.972-2			5.327-2	4.350-2 1.339-4	
2.561-3	1.742+1 1.773+1	4.334+0	4.314+0	1.949-2			5.264-2	3.523-2 1.501-4	
2.940-3	1.678+1 1.707+1	4.499+0	4.480+0	1.928-2			5.207-2	3.358-2 1.695-4	
3.345-3	2.160+1 2.138+1	3.495+0	3.476+0	1.910-2			5.158-2	4.281-2 1.963-4	
3.777-3	2.851+1 2.827+1	2.649+0	2.629+0	1.893-2			5.112-2	5.596-2 2.283-4	
4.234-3	2.119+1 2.156+1	3.562+0	3.544+0	1.897-2			5.017-2	4.093-2 2.742-4	
5.763-3	2.766+1 2.814+1	2.730+0	2.711+0	1.814-2			4.901-2	5.219-2 3.680-4	
7.527-3	1.628+1 1.660+1	4.130+0	4.113+0	1.771-2			4.787-2	3.395-2 5.050-4	
1.025-2	2.058+1 2.093+1	3.669+0	3.652+0	1.720-2			4.651-2	3.719-2 6.319-4	
1.511-2	3.202+1 3.257+1	2.358+0	2.342+0	1.670-2			4.520-2	5.624-2 9.975-4	
2.091-2	1.810+1 1.842+1	4.171+0	4.155+0	1.633-2			4.421-2	3.181-2 1.288-3	
2.648-2	3.726+1 3.781+1	2.026+0	2.011+0	1.583-2			4.235-2	6.179-2 1.641-3	
3.267-2	4.879+1 4.970+1	1.547+0	1.535+0	1.219-2			3.306-2	6.349-2 2.034-3	
3.953-2	1.339+1 1.368+1	1.641+0	1.632+0	9.267-3			2.516-2	1.502-2 2.206-3	
4.704-2	4.692+1 4.811+1	1.609+0	1.602+0	6.979-3			1.897-2	3.656-2 2.735-3	
5.761-2	1.155+1 1.191+1	1.634+0	1.629+0	5.235-3			1.425-2	9.367-3 3.118-3	
7.002-2	2.724+1 2.824+1	2.772+0	2.767+0	4.481-3			1.221-2	1.630-2 3.685-3	
8.322-2	3.274+1 3.419+1	2.304+0	2.300+0	3.984-3			1.088-2	1.800-2 4.512-3	
9.891-2	2.902+1 3.051+1	2.602+0	2.589+0	3.411-3			9.341-3	1.574-2 5.514-3	
1.307-1	1.703+1 3.954+1	2.039+0	2.036+0	2.769-3			7.622-3	1.787-2 7.272-3	
1.820-1	5.051+1 5.531+1	1.495+0	1.492+0	2.374-3			6.567-3	2.149-2 9.092-3	
2.075-1	5.474+1 6.072+1	1.379+0	1.377+0	2.155-3			5.983-3	2.254-2 1.035-2	
2.417-1	8.277+1 5.450+1	1.584+0	1.582+0	1.952-3			5.439-3	2.116-2 1.142-2	
2.710-1	6.447+1 2.255+1	3.006+0	3.084+0	1.773-3			4.957-3	1.687-2 1.238-2	
2.940-1	3.333+1 3.614+1	2.199+0	2.195+0	1.595-3			4.476-3	1.914-2 1.346-2	
3.345-1	3.359+1 3.512+1	2.248+0	2.246+0	1.408-3			3.971-3	2.009-2 1.520-2	
3.777-1	3.348+1 3.962+1	2.255+0	2.254+0	1.251-3			3.548-3	2.126-2 1.693-2	
4.234-1	3.262+1 3.959+1	2.301+0	2.300+0	1.073-3			3.068-3	2.288-2 1.923-2	
5.123-1	3.691+1 4.579+1	2.046+0	2.045+0	8.779-4			2.540-3	2.626-2 2.291-2	
6.325-1	3.516+1 4.520+1	2.146+0	2.146+0	7.247-4			2.127-3	2.926-2 2.662-2	

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ATOMIC WEIGHT 3.9102+ 1		DENSITY 8.6000- 1 GRAMS/CC									
ENERGY MEV	MFP (CM)	CROSS SECTION (BARN)								ENERGY DEPOSITION MEV	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.		TOTAL	LOCAL
7.527- 1	3.411+ 1	4.553- 1	2.214+ 0	2.213- 0	1.063- 3	1.886- 3	3.274- 2	3.041- 2			
8.834- 1	3.279+ 1	4.474+ 1	2.303+ 0	2.300- 0	2.366- 3	1.904- 5	1.629- 3	3.754- 2	3.505- 2		
1.025+ 0	2.991+ 1	4.127+ 1	2.524+ 0	2.517- 0	4.225- 3	2.335- 3	4.399- 3	4.014- 2			
1.176+ 0	2.991+ 1	4.174+ 1	2.524+ 0	2.510- 0	7.511- 3	6.741- 3	7.915- 3	5.311- 2	4.576- 2		
1.338+ 0	2.776+ 1	3.917+ 1	2.720+ 0	2.690+ 0	1.793- 2	1.267- 2	1.001- 2	6.716- 2	5.253- 2		
1.511+ 0	2.656+ 1	3.791+ 1	2.842+ 0	2.790+ 0	3.183- 2	2.071- 2	1.427- 2	8.567- 2	6.013- 2		
1.694+ 0	2.647+ 1	3.825+ 1	2.853+ 0	2.790+ 0	4.411- 2	2.830- 2	2.699- 2	1.056- 1	6.826- 2		
1.897+ 0	2.448+ 1	3.586+ 1	3.084+ 0	2.986+ 0	6.462- 2	3.309- 2	4.722- 2	1.274+ 1	7.759- 2		
2.091+ 0	2.436+ 1	3.705+ 1	3.025+ 0	2.906+ 0	8.350- 2	3.575- 2	9.939- 2	1.561- 1	8.830- 2		
2.305+ 0	2.392+ 1	3.621+ 1	3.157+ 0	3.003+ 0	1.161- 1	3.800- 2	1.613- 1	1.923+ 1	1.007- 1		
2.530+ 0	2.343+ 1	3.656+ 1	3.222+ 0	3.046+ 0	1.253- 1	5.011- 2	2.316- 1	2.194+ 1	1.088- 1		
2.741+ 0	2.275+ 1	3.622+ 1	3.319+ 0	3.079+ 0	1.449- 1	9.552- 2	3.140- 1	2.760+ 1	1.197- 1		
3.011+ 0	2.162+ 1	3.520+ 1	3.492+ 0	3.147+ 0	1.862- 1	1.589- 1	4.236- 1	3.645+ 1	1.361- 1		
3.267+ 0	2.156+ 1	3.540+ 1	3.502+ 0	3.016+ 0	2.543- 1	2.321- 1	5.535- 1	5.080+ 1	1.632- 1		
3.533+ 0	2.157+ 1	3.562+ 1	3.500+ 0	2.888+ 0	3.035- 1	3.082- 1	7.112- 1	6.542+ 1	1.891- 1		
3.811+ 0	2.181+ 1	3.598+ 1	3.462+ 0	2.731+ 0	3.492- 1	3.826- 1	6.739- 1	8.163+ 1	2.169- 1		
4.069+ 0	2.244+ 1	3.680+ 1	3.364+ 0	2.525+ 0	3.876- 1	4.511- 1	9.683- 1	1.008+ 1	2.491- 1		
4.396+ 0	2.296+ 1	3.769+ 1	3.286+ 0	2.357+ 0	4.106- 1	5.210- 1	1.048+ 1	1.201+ 1	2.776- 1		
4.704+ 0	2.337+ 1	3.834+ 1	3.231+ 0	2.216+ 0	4.289- 1	5.865- 1	1.125+ 1	1.191+ 1	3.173- 1		
4.991+ 0	2.404+ 1	3.928+ 1	3.140+ 0	2.058+ 0	4.449- 1	6.372- 1	1.168+ 1	1.603+ 1	3.340+ 1		
5.353+ 0	2.479+ 1	4.068+ 1	3.046+ 0	1.918+ 0	4.571- 1	6.705- 1	1.177+ 1	1.816+ 1	3.636+ 1		
5.759+ 0	2.525+ 1	4.149+ 1	2.990+ 0	1.817+ 0	4.680- 1	7.049- 1	1.185+ 1	2.026+ 1	3.925+ 1		
6.042+ 0	2.570+ 1	4.251+ 1	2.938+ 0	1.733+ 0	4.783- 1	7.268- 1	1.194+ 1	2.238+ 1	4.257+ 1		
6.367+ 0	2.623+ 1	4.255+ 1	2.879+ 0	1.654+ 0	4.876- 1	7.373- 1	1.203+ 1	2.454+ 1	4.623+ 1		
6.737+ 0	2.686+ 1	4.284+ 1	2.811+ 0	1.579+ 0	4.961- 1	7.465- 1	1.212+ 1	2.635+ 1	5.045+ 1		
7.156+ 0	2.749+ 1	4.328+ 1	2.746+ 0	1.517+ 0	5.046- 1	7.248- 1	1.220+ 1	2.902+ 1	5.495+ 1		
7.548+ 0	2.812+ 1	4.382+ 1	2.685+ 0	1.465+ 0	5.109- 1	7.093- 1	1.226+ 1	3.094+ 1	5.928+ 1		
7.910+ 0	2.874+ 1	4.441+ 1	2.627+ 0	1.418+ 0	5.167- 1	6.920- 1	1.233+ 1	3.279+ 1	6.391+ 1		
8.322+ 0	2.954+ 1	4.526+ 1	2.556+ 0	1.363+ 0	5.231- 1	6.700- 1	1.240+ 1	3.483+ 1	6.960+ 1		
8.787+ 0	3.029+ 1	4.591+ 1	2.493+ 0	1.314+ 0	5.271- 1	6.517- 1	1.247+ 1	3.681+ 1	7.527+ 1		
9.177+ 0	3.101+ 1	4.657+ 1	2.434+ 0	1.267+ 0	5.298- 1	6.377- 1	1.254+ 1	3.892+ 1	8.120+ 1		
9.665+ 0	3.169+ 1	4.715+ 1	2.382+ 0	1.225+ 0	5.313- 1	6.257- 1	1.262+ 1	4.112+ 1	8.753+ 1		
1.012- 1	3.231+ 1	4.766+ 1	2.336+ 0	1.189+ 0	5.313- 1	6.176- 1	1.263+ 1	4.330+ 1	9.369+ 1		
1.058- 1	3.292+ 1	4.814+ 1	2.293+ 0	1.153+ 0	5.306- 1	6.101- 1	1.261+ 1	4.545+ 1	9.976+ 1		
1.101- 1	3.355+ 1	4.868+ 1	2.251+ 0	1.119+ 0	5.282- 1	6.033- 1	1.259+ 1	4.773+ 1	1.062+ 1		
1.155- 1	3.419+ 1	4.925+ 1	2.208+ 0	1.086+ 0	5.232- 1	5.990- 1	1.256+ 1	5.009+ 1	1.126+ 1		
1.199- 1	3.488+ 1	4.985+ 1	2.164+ 0	1.050+ 0	5.186- 1	5.975- 1	1.247+ 1	5.254+ 1	1.187+ 1		
1.250- 1	3.553+ 1	5.046+ 1	2.125+ 0	1.021+ 0	5.077- 1	5.964- 1	1.230+ 1	5.508+ 1	1.250+ 1		
1.307+ 1	3.610+ 1	5.096+ 1	2.092+ 0	9.969- 1	4.957- 1	5.989- 1	1.213+ 1	5.746+ 1	1.304+ 1		
1.354+ 1	3.656+ 1	5.136+ 1	2.065+ 0	9.771- 1	4.847- 1	6.032- 1	1.223+ 1	5.930+ 1	1.341+ 1		
1.386+ 1	3.689+ 1	5.167+ 1	2.046+ 0	9.643- 1	4.758- 1	6.064- 1	1.245+ 1	6.058+ 1	1.366+ 1		
1.413+ 1	3.718+ 1	5.200+ 1	2.031+ 0	9.537- 1	4.669- 1	6.103+ 1	1.251+ 1	6.174+ 1	1.385+ 1		
1.441+ 1	3.745+ 1	5.241+ 1	2.016+ 0	9.441- 1	4.574- 1	6.147+ 1	1.255+ 1	6.287+ 1	1.402+ 1		
1.468+ 1	3.778+ 1	5.293+ 1	1.998+ 0	9.341- 1	4.422- 1	6.221+ 1	1.260+ 1	6.430+ 1	1.420+ 1		
1.519+ 1	3.825+ 1	5.371+ 1	1.974+ 0	9.210- 1	4.203- 1	6.326+ 1	1.268+ 1	6.618+ 1	1.436+ 1		
1.575+ 1	3.866+ 1	5.447+ 1	1.953+ 0	9.107- 1	3.952- 1	6.469+ 1	1.276+ 1	6.804+ 1	1.440+ 1		
1.633+ 1	3.892+ 1	5.515+ 1	1.940+ 0	9.093- 1	3.672- 1	6.633+ 1	1.284+ 1	6.954+ 1	1.426+ 1		
1.692+ 1	3.904+ 1	5.577+ 1	1.934+ 0	9.156- 1	3.378- 1	6.803+ 1	1.292+ 1	7.077+ 1	1.397+ 1		
1.752+ 1	3.909+ 1	5.636+ 1	1.932+ 0	9.268- 1	3.076- 1	6.978+ 1	1.300+ 1	7.179+ 1	1.355+ 1		
1.813+ 1	3.901+ 1	5.696+ 1	1.935+ 0	9.445- 1	2.756- 1	7.151+ 1	1.305+ 1	7.241+ 1	1.301+ 1		
1.875+ 1	3.881+ 1	5.768+ 1	1.945+ 0	9.759- 1	2.267- 1	7.427+ 1	1.322+ 1	7.299+ 1	1.205+ 1		
2.000+ 1											
RESONANCE INTEGRALS		4.327+ 1	4.032+ 1	1.815+ 0	1.137+ 0	4.761+ 0					
MAXWELLIAN AVERAGES		3.735+ 0	1.900+ 0	1.835+ 0		4.954+ 0					
1/E AVERAGES		3.472+ 0	2.303+ 0	1.037- 1	6.497- 2	2.720- 1					
FISSION AVERAGES		2.776+ 0	2.550+ 0	1.108- 1	1.158- 1	2.423- 1					
FUSION AVERAGES		2.044+ 0	9.629- 1	4.730- 1	6.080- 1	1.241+ 0

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ENDL 175 Group Neutron Constants

20-Ca-Nat

ATOMIC WEIGHT 4.0080 ± 1		DENSITY 1.5550 ± 0 GRAMS/CC					
ENERGY	MFP (CM)	CROSS SECTION (BARNs)					ENERGY DEPOSIT (MEV)
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORB	REMAINDER	GAM-PROD.	TOTAL LOCAL
9.108-5	1.666+1	1.699+1	2.577+0	2.570+0	7.162-3	1.927-2	2.324-2
9.386-5	1.666+1	1.699+1	2.577+0	2.570+0	7.053-3	1.897-2	2.289-2
9.658-5	1.666+1	1.699+1	2.577+0	2.570+0	6.971-3	1.875-2	2.262-2
9.911-5	1.666+1	1.699+1	2.577+0	2.570+0	6.865-3	1.847-2	2.228-2
1.025-4	1.666+1	1.699+1	2.577+0	2.570+0	6.685-3	1.798-2	2.170-2
1.099-4	1.667+1	1.699+1	2.576+0	2.570+0	6.459-3	1.737-2	2.096-2
1.176-4	1.667+1	1.699+1	2.576+0	2.570+0	6.251-3	1.682-2	2.029-2
1.256-4	1.667+1	1.699+1	2.576+0	2.570+0	6.060-3	1.630-2	1.967-2
1.338-4	1.667+1	1.699+1	2.576+0	2.570+0	5.887-3	1.584-2	1.911-2
1.406-4	1.667+1	1.699+1	2.576+0	2.570+0	5.721-3	1.539-2	1.859-2
1.511-4	1.667+1	1.699+1	2.576+0	2.570+0	5.537-3	1.490-2	1.798-2
1.601-4	1.667+1	1.699+1	2.575+0	2.570+0	5.386-3	1.449-2	1.749-2
1.694-4	1.667+1	1.699+1	2.575+0	2.570+0	5.244-3	1.411-2	1.703-2
1.789-4	1.667+1	1.699+1	2.575+0	2.570+0	5.101-3	1.372-2	1.657-2
1.887-4	1.668+1	1.699+1	2.575+0	2.570+0	4.975-3	1.338-2	1.616-2
1.988-4	1.668+1	1.699+1	2.575+0	2.570+0	4.852-3	1.305-2	1.578-2
2.091-4	1.668+1	1.699+1	2.574+0	2.570+0	4.766-3	1.274-2	1.545-2
2.241-4	1.668+1	1.697+1	2.574+0	2.570+0	4.623-3	1.081-2	1.307-2
3.267-4	1.668+1	1.697+1	2.574+0	2.570+0	3.711-3	9.982-3	1.207-2
3.811-4	1.669+1	1.697+1	2.573+0	2.570+0	3.404-3	9.156-3	1.108-2
4.704-4	1.669+1	1.697+1	2.573+0	2.570+0	3.214-3	8.646-3	1.046-2
4.991-4	1.669+1	1.697+1	2.573+0	2.570+0	3.032-3	8.319-3	1.007-2
5.658-4	1.669+1	1.697+1	2.573+0	2.570+0	2.958-3	7.959-3	9.641-3
6.042-4	1.669+1	1.697+1	2.573+0	2.570+0	2.887-3	7.767-3	9.412-3
6.367-4	1.669+1	1.697+1	2.573+0	2.570+0	2.798-3	7.528-3	9.126-3
7.156-4	1.669+1	1.697+1	2.573+0	2.570+0	2.644-3	7.114-3	8.631-3
8.322-4	1.669+1	1.698+1	2.573+0	2.570+0	2.521-3	6.783-3	8.236-3
9.177-4	1.669+1	1.698+1	2.572+0	2.570+0	2.420-3	6.509-3	7.911-3
1.059-3	1.669+1	1.697+1	2.573+0	2.570+0	2.889-3	7.773-3	9.446-3
1.307-3	1.667+1	1.696+1	2.575+0	2.570+0	5.060-3	1.361-2	1.650-2
1.591-3	1.670+1	1.696+1	2.572+0	2.569+0	4.245-3	6.525-3	7.968-3
1.882-3	1.677+1	1.706+1	2.560+0	2.559+0	1.751-3	4.712-3	5.818-3
2.208-3	1.680+1	1.709+1	2.556+0	2.555+0	1.663-3	4.475-3	5.555-3
2.561-3	1.682+1	1.711+1	2.552+0	2.550+0	1.590-3	4.278-3	5.341-3
2.940-3	1.691+1	1.720+1	2.539+0	2.538+0	1.516-3	4.079-3	5.143-3
3.345-3	1.710+1	1.739+1	2.511+0	2.509+0	1.445-3	3.898-3	4.983-3
3.777-3	1.729+1	1.758+1	2.484+0	2.482+0	1.587-3	4.271-3	5.536-3
4.234-3	1.752+1	1.782+1	2.450+0	2.448+0	2.881-3	7.754-3	1.007-2
5.763-3	1.791+1	1.822+1	2.337+0	2.396+0	1.335-3	3.593-3	4.937-3
7.527-3	1.842+1	1.873+1	2.332+0	2.330+0	1.384-3	3.728-3	5.394-3
1.025-2	2.194+1	1.978+1	2.207+0	2.205+0	2.300-3	6.197-3	9.329-3
1.511-2	2.084+1	1.819+1	2.050+0	2.045+0	1.531-3	4.128-3	6.313-3
2.091-2	1.903+1	1.935+1	2.256+0	2.191+0	6.550-2	1.767-1	2.444-1
2.646-2	2.478+1	2.520+1	1.733+0	1.731+0	2.303-3	6.216-3	2.256-2
3.267-2	2.595+1	2.633+1	1.655+0	1.654+0	7.565-4	2.044-3	5.570-3
3.953-2	2.705+1	2.751+1	1.588+0	1.587+0	4.742-4	1.282-3	4.567-3
4.704-2	2.484+1	2.527+1	1.726+0	1.726+0	5.405-4	1.463-3	5.132-3
5.761-2	3.542+1	3.704+1	1.179+0	1.179+0	2.194-4	5.946-4	4.617-3
7.002-2	3.559+1	3.620+1	1.205+0	1.206+0	1.905-4	5.170-4	5.019-3
8.322-2	3.248+1	2.387+1	1.829+0	1.814+0	1.557-2	4.230-2	7.616-2
9.891-2	3.745+1	3.809+1	1.147+0	1.146+0	2.137-4	6.303-4	7.068-3
1.307-1	1.119+1	1.148+1	3.638+0	3.825+0	1.245-2	3.405-2	3.479-2
1.820-1	6.631+1	6.810+1	6.475+0	6.472+0	3.642-4	1.002-3	1.391-2
2.075-1	1.030+1	1.082+1	4.165+0	4.165+0	1.663-3	4.589-3	1.762-2
2.417-1	5.910+0	6.271+0	7.261+0	7.264+0	9.142-4	2.265-3	1.295-2
2.710-1	1.687+1	1.806+1	2.545+0	2.543+0	1.508-3	4.193-3	1.352-2
2.940-1	1.519+1	1.638+1	2.826+0	2.925+0	7.597-4	2.119-3	1.602-2
3.345-1	1.118+1	1.312+1	3.841+0	3.840+0	9.515-4	2.665-3	1.642-2
3.777-1	2.557+1	3.096+1	1.679+0	1.679+0	7.574-5	2.133-4	1.659-2
4.234-1	1.489+1	1.780+1	2.884+0	2.883+0	4.455-4	1.264-3	2.051-2
5.123-1	1.361+1	1.597+1	3.155+0	3.156+0	5.431-4	5.744-4	2.587-2
6.325-1	1.516+1	1.782+1	2.833+0	2.831+0	2.457-3	1.193-3	3.193-2

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ENDL :75 Group Neutron Constants

20-Ca-NaI

ATOMIC WEIGHT 4.0080+1			DENSITY 1.5500+0 GRAMS/CC						
ENERGY MEV	MFP (CM)		GROSS SECTION (BARN)					ENERGY DEPOSITION (MEV)	
	TOTAL	TRANSPORT	TOTAL	EL. F. F. C.	ABSORPTN	REMAINING P	GAM-PROD.	TOTAL	LOCAL
7.527+1	1.631+1	1.830+1	2.632+0	2.629+0	3.510+3	9.417+4	3.991+2	3.653+2	2
8.034+1	1.242+1	1.461+1	3.457+0	3.451+0	5.612+3	8.146+4	4.031+2	3.694+2	2
1.025+0	1.242+1	1.997+1	3.005+0	2.993+0	1.211+2	7.289+4	4.511+2	3.962+2	2
1.175+0	1.280+1	1.838+1	3.355+0	3.334+0	1.999+2	1.591+3	5.213+2	4.441+2	2
1.338+0	2.010+1	2.963+1	2.136+0	2.100+0	2.806+2	7.268+3	7.991+3	5.151+2	2
1.511+0	1.729+1	2.320+1	2.609+0	2.766+0	3.778+2	1.102+2	3.162+2	5.594+2	2
1.694+0	1.801+1	2.178+1	3.110+0	3.048+0	4.939+2	1.290+2	8.662+2	6.114+2	2
1.887+0	1.837+1	2.142+1	3.266+0	3.212+0	6.010+2	1.473+2	9.346+2	6.804+2	2
2.091+0	1.830+1	2.232+1	3.228+0	3.141+0	7.160+2	1.540+2	1.269+1	1.152+1	2
2.305+0	1.294+1	2.171+1	3.319+0	3.213+0	9.049+2	1.583+2	1.620+1	1.366+1	2
2.530+0	1.207+1	2.020+1	3.558+0	3.413+0	1.295+1	1.627+2	1.569+1	1.538+1	2
2.741+0	1.218+1	2.024+1	3.521+0	3.323+0	1.854+1	1.677+2	2.353+1	2.405+1	2
3.011+0	1.316+1	2.145+1	3.263+0	2.961+0	2.755+1	2.616+2	2.774+1	3.714+1	2
3.267+0	1.266+1	2.073+1	3.340+0	2.966+0	3.489+1	4.517+2	3.251+1	4.768+1	2
3.533+0	1.251+1	1.839+1	3.816+0	3.249+0	4.086+1	1.588+1	4.432+1	6.159+1	2
3.811+0	1.153+1	1.666+1	3.723+0	3.018+0	4.556+1	2.499+1	5.135+1	8.186+1	2
4.068+0	1.195+1	1.947+1	3.594+0	2.767+0	5.105+1	3.165+1	6.517+1	1.035+1	2
4.396+0	1.281+1	2.058+1	3.569+0	2.406+0	6.658+1	3.800+1	7.914+1	1.333+1	2
4.704+0	1.308+1	2.105+1	3.294+0	2.235+0	6.088+1	4.395+1	9.397+1	1.591+1	2
4.991+0	1.317+1	2.108+1	3.261+0	2.107+0	6.445+1	5.095+1	1.051+1	1.858+1	2
5.353+0	1.320+1	2.120+1	3.253+0	2.005+0	6.702+1	5.780+1	1.122+1	2.114+1	2
5.658+0	1.347+1	2.157+1	3.188+0	1.902+0	6.912+1	5.955+1	1.195+1	2.343+1	2
6.042+0	1.287+1	2.235+1	3.096+0	1.791+0	7.029+1	6.020+1	1.271+1	2.577+1	2
6.367+0	1.403+1	2.335+1	3.096+0	1.743+0	7.087+1	6.055+1	1.345+1	2.757+1	2
6.737+0	1.415+1	2.262+1	3.033+0	1.714+0	7.105+1	6.089+1	1.429+1	2.946+1	2
7.126+0	1.493+1	2.320+1	2.958+0	1.641+0	7.103+1	6.458+1	1.516+1	3.174+1	2
7.540+0	1.493+1	2.362+1	2.875+0	1.562+0	7.129+1	6.040+1	1.596+1	3.403+1	2
7.912+0	1.550+1	2.452+1	2.770+0	1.462+0	7.060+1	6.024+1	1.679+1	3.676+1	2
8.322+0	1.570+1	2.495+1	2.735+0	1.428+0	6.990+1	6.075+1	1.724+1	3.880+1	2
8.767+0	1.605+1	2.546+1	2.675+0	1.365+0	6.875+1	6.214+1	1.850+1	4.103+1	2
9.177+0	1.642+1	2.591+1	2.615+0	1.302+0	6.746+1	6.391+1	1.915+1	4.335+1	2
9.665+0	1.674+1	2.637+1	2.565+0	1.244+0	6.534+1	6.625+1	1.957+1	4.543+1	2
1.012+1	1.695+1	2.652+1	2.533+0	1.204+0	6.316+1	6.873+1	1.939+1	4.732+1	2
1.058+1	1.711+1	2.629+1	2.510+0	1.163+0	6.147+1	7.323+1	1.644+1	4.923+1	2
1.101+1	1.727+1	2.604+1	2.486+0	1.117+0	5.921+1	7.770+1	1.563+1	5.122+1	2
1.155+1	1.745+1	2.574+1	2.458+0	1.075+1	5.636+1	8.293+1	1.464+1	5.299+1	2
1.199+1	1.778+1	2.609+1	2.415+0	1.040+0	5.353+1	8.597+1	1.369+1	5.367+1	2
1.250+1	1.850+1	2.727+1	2.309+0	9.956+1	5.030+1	8.062+1	1.260+1	5.409+1	2
1.307+1	1.914+1	2.792+1	2.243+0	9.678+1	4.678+1	8.074+1	1.156+1	5.458+1	2
1.354+1	1.938+1	2.810+1	2.215+0	9.491+1	4.399+1	8.261+1	1.076+1	5.516+1	2
1.386+1	1.956+1	2.825+1	2.195+0	9.350+1	4.262+1	8.393+1	1.022+1	5.560+1	2
1.413+1	1.966+1	2.838+1	2.182+0	9.289+1	4.024+1	8.511+1	1.007+1	5.603+1	2
1.441+1	1.979+1	2.856+1	2.170+0	9.215+1	3.843+1	8.642+1	9.973+1	5.646+1	2
1.468+1	1.996+1	2.883+1	2.151+0	9.111+1	3.577+1	8.825+1	9.839+1	5.689+1	2
1.519+1	2.022+1	2.928+1	2.124+0	8.973+1	3.274+1	9.031+1	9.625+1	5.760+1	2
1.575+1	2.051+1	2.984+1	2.094+0	8.871+1	2.889+1	9.181+1	9.458+1	5.812+1	2
1.633+1	2.077+1	3.043+1	2.068+0	8.813+1	2.544+1	9.318+1	9.258+1	5.838+1	2
1.692+1	2.097+1	3.099+1	2.047+0	8.603+1	2.125+1	9.444+1	8.944+1	5.855+1	2
1.752+1	2.101+1	3.146+1	2.044+0	8.956+1	1.937+1	9.545+1	8.015+1	5.828+1	2
1.813+1	2.090+1	3.193+1	2.054+0	9.273+1	1.647+1	9.621+1	8.249+1	5.533+1	2
1.875+1	2.054+1	3.259+1	2.080+0	9.877+1	1.266+1	9.636+1	7.681+1	5.572+1	2
2.000+1									
RESONANCE INTEGRALS			4.538+1	4.297+1	1.274+0	1.131+0	2.787+0		
MAXWELLIAN AVERAGES			2.954+0	2.570+0	3.836+1		1.032+0		
F. E. AVERAGES			2.597+0	2.455+0	7.280+2	6.459+2	1.592+1		
FISSION AVERAGES			3.131+0	2.910+0	1.454+1	7.603+2	2.102+1		
FUSION AVERAGES			2.195+0	9.367+1	4.160+1	8.421+1	1.031+0		

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ENDL 175 Group Neutron Constants

22-Ti-Nat

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22-Ti-Nat

ATOMIC WEIGHT 4.7400 ± 1		DENSITY 4.4600 ± 0 GRAMS/CC							
ENERGY		MPF (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	7.915-1	7.937-1	2.230-1	4.400-0	1.790-1	4.099-1	6.614-0	5.041-4	4
5.227-9	1.322-0	1.328-0	1.335-1	4.400-0	0.951-0	2.050-1	5.524-0	5.046-4	4
2.091-8	1.702-0	1.713-0	1.037-1	4.400-0	5.959-0	4.099-0	4.743-0	4.332-4	4
3.267-8	1.901-0	1.914-0	9.262-0	4.400-0	4.802-0	1.118-1	4.334-0	3.959-4	4
4.701-7	2.191-0	2.158-0	8.241-0	4.400-0	3.841-0	8.756-0	3.841-0	3.508-4	4
8.322-8	2.389-0	2.410-0	7.387-0	4.400-0	2.987-0	6.839-0	3.332-0	3.044-4	4
1.307-7	2.580-0	2.604-0	6.841-0	4.400-0	2.441-0	5.589-0	2.940-0	2.686-4	4
1.882-7	2.730-0	2.756-0	6.465-0	4.400-0	2.065-0	4.729-0	2.632-0	2.405-4	4
2.561-7	2.851-0	2.880-0	6.190-0	4.400-0	1.790-0	4.099-0	2.383-0	2.177-4	4
3.345-7	2.952-0	2.993-0	5.979-0	4.400-0	1.579-0	3.616-0	2.176-0	1.989-4	4
4.234-7	3.032-0	3.085-0	5.820-0	4.400-0	1.420-0	3.253-0	2.611-0	1.838-4	4
5.123-7	3.127-0	3.172-0	5.626-0	4.400-0	1.226-0	2.807-0	1.795-0	1.642-4	4
7.527-7	3.272-0	3.310-0	5.394-0	4.400-0	9.945-1	2.277-0	1.519-0	1.390-4	4
1.176-6	3.368-0	3.409-0	5.239-0	4.400-0	8.393-1	1.922-0	1.320-0	1.208-4	4
1.511-6	3.443-0	3.495-0	5.126-0	4.400-0	7.258-1	1.662-0	1.167-0	1.069-4	4
2.091-6	3.511-0	3.556-0	5.026-0	4.400-0	6.260-1	1.433-0	1.026-0	9.412-5	4
2.741-6	3.566-0	3.611-0	4.949-0	4.400-0	5.491-1	1.258-0	9.143-1	6.397-5	4
3.533-6	3.617-0	3.664-0	4.880-0	4.400-0	4.795-1	1.098-0	8.097-1	7.451-5	4
4.704-6	3.656-0	3.704-0	4.827-0	4.400-0	4.269-1	9.775-1	7.287-1	6.720-5	4
5.658-6	3.684-0	3.733-0	4.790-0	4.400-0	3.903-1	8.937-1	6.713-1	6.205-5	4
6.737-6	3.712-0	3.761-0	4.754-0	4.400-0	3.542-1	8.112-1	6.139-1	5.591-5	4
8.322-6	3.736-0	3.786-0	4.724-0	4.400-0	3.243-1	7.426-1	5.650-1	5.201-5	4
9.620-6	3.753-0	3.803-0	4.702-0	4.400-0	3.024-1	6.964-1	5.288-1	4.944-5	4
1.101-5	3.771-0	3.821-0	4.680-0	4.400-0	2.801-1	6.411-1	4.929-1	4.619-5	4
1.307-5	3.787-0	3.838-0	4.661-0	4.400-0	2.607-1	5.969-1	4.608-1	4.339-5	4
1.469-5	3.796-0	3.848-0	4.649-0	4.400-0	2.486-1	5.693-1	4.407-1	4.164-5	4
1.581-5	3.805-0	3.857-0	4.638-0	4.400-0	2.376-1	5.441-1	4.222-1	4.005-5	4
1.758-5	3.814-0	3.866-0	4.628-0	4.400-0	2.275-1	5.210-1	4.052-1	3.959-5	4
1.882-5	3.821-0	3.874-0	4.618-0	4.400-0	2.183-1	4.988-1	3.894-1	3.726-5	4
2.075-5	3.830-0	3.882-0	4.608-0	4.400-0	2.081-1	4.766-1	3.722-1	3.590-5	4
2.277-5	3.836-0	3.889-0	4.600-0	4.400-0	2.004-1	4.588-1	3.589-1	3.470-5	4
2.417-5	3.841-0	3.894-0	4.595-0	4.400-0	1.945-1	4.455-1	3.489-1	3.387-5	4
2.561-5	3.846-0	3.899-0	4.589-0	4.400-0	1.891-1	4.330-1	3.395-1	3.310-5	4
2.710-5	3.850-0	3.903-0	4.584-0	4.400-0	1.839-1	4.211-1	3.306-1	3.238-5	4
2.862-5	3.853-0	3.906-0	4.580-0	4.400-0	1.802-1	4.127-1	3.242-1	3.187-5	4
2.940-5	3.856-0	3.909-0	4.577-0	4.400-0	1.766-1	4.045-1	3.180-1	3.137-5	4
3.099-5	3.861-0	3.914-0	4.571-0	4.400-0	1.710-1	3.916-1	3.083-1	3.060-5	4
3.345-5	3.866-0	3.920-0	4.565-0	4.400-0	1.647-1	3.772-1	2.973-1	2.975-5	4
3.601-5	3.871-0	3.925-0	4.559-0	4.400-0	1.589-1	3.638-1	2.871-1	2.897-5	4
3.866-5	3.875-0	3.929-0	4.554-0	4.400-0	1.543-1	3.533-1	2.792-1	2.837-5	4
4.048-5	3.878-0	3.932-0	4.551-0	4.400-0	1.508-1	3.454-1	2.731-1	2.792-5	4
4.234-5	3.880-0	3.934-0	4.548-0	4.400-0	1.493-1	3.397-1	2.687-1	2.760-5	4
4.329-5	3.883-0	3.937-0	4.545-0	4.400-0	1.451-1	3.323-1	2.631-1	2.720-5	4
4.619-5	3.885-0	3.940-0	4.542-0	4.400-0	1.420-1	3.253-1	2.577-1	2.681-5	4
4.717-5	3.897-0	3.942-0	4.540-0	4.400-0	1.398-1	3.202-1	2.538-1	2.654-5	4
4.916-5	3.890-0	3.944-0	4.537-0	4.400-0	1.370-1	3.137-1	2.488-1	2.619-5	4
5.123-5	3.892-0	3.946-0	4.534-0	4.400-0	1.342-1	3.074-1	2.439-1	2.587-5	4
5.72-5	3.895-0	3.949-0	4.531-0	4.400-0	1.310-1	2.999-1	2.382-1	2.548-5	4
5.674-5	3.897-0	3.952-0	4.528-0	4.400-0	1.285-1	2.942-1	2.337-1	2.520-5	4
5.763-5	3.899-0	3.954-0	4.526-0	4.400-0	1.250-1	2.885-1	2.295-1	2.493-5	4
5.097-5	3.902-0	3.956-0	4.523-0	4.400-0	1.231-1	2.820-1	2.243-1	2.461-5	4
6.325-5	3.904-0	3.958-0	4.521-0	4.400-0	1.209-1	2.769-1	2.204-1	2.438-5	4
6.557-5	3.905-0	3.960-0	4.519-0	4.400-0	1.193-1	2.732-1	2.176-1	2.421-5	4
6.674-5	3.907-0	3.962-0	4.517-0	4.400-0	1.172-1	2.685-1	2.138-1	2.400-5	4
7.034-5	3.909-0	3.963-0	4.515-0	4.400-0	1.152-1	2.639-1	2.103-1	2.380-5	4
7.155-5	3.910-0	3.965-0	4.513-0	4.400-0	1.133-1	2.594-1	2.068-1	2.361-5	4
7.527-5	3.912-0	3.967-0	4.511-0	4.400-0	1.109-1	2.540-1	2.026-1	2.340-5	4
7.780-5	3.913-0	3.968-0	4.510-0	4.400-0	1.096-1	2.509-1	2.002-1	2.328-5	4
7.908-5	3.915-0	3.970-0	4.508-0	4.400-0	1.082-1	2.478-1	1.978-1	2.316-5	4
8.167-5	3.916-0	3.971-0	4.507-0	4.400-0	1.065-1	2.440-1	1.948-1	2.302-5	4
8.431-5	3.918-0	3.973-0	4.504-0	4.400-0	1.045-1	2.392-1	1.911-1	2.285-5	4
8.634-5	3.920-0	3.975-0	4.502-0	4.400-0	1.025-1	2.346-1	1.875-1	2.270-5	4

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 4.7400+1		DENSITY 4.4600+0 GRAMS/CC									
ENERGY MEV	MFP (CM)	CROSS SECTION (BARNs)									
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.108-5	3.921+0	3.976+0	4.501+0	4.400+0	1.009-1	2.311-1	1.898-1	2.260-5			
9.386-5	3.922+0	3.977+0	4.499+0	4.400+0	9.832-2	2.277-1	1.891-1	2.260-5			
9.668-5	3.923+0	3.978+0	4.498+0	4.400+0	9.832-2	2.252-1	1.891-1	2.243-5			
9.911-5	3.924+0	3.980+0	4.497+0	4.400+0	9.692-2	2.220-1	1.776-1	2.234-5			
1.029-4	3.927+0	3.982+0	4.494+0	4.400+0	9.425-2	2.158-1	1.720-1	2.221-5			
1.099-4	3.930+0	3.985+0	4.491+0	4.400+0	9.104-2	2.085-1	1.670-1	2.205-5			
1.176-4	3.932+0	3.988+0	4.489+0	4.400+0	8.805-2	2.016-1	1.617-1	2.197-5			
1.256-4	3.935+0	3.990+0	4.485+0	4.400+0	8.520-2	1.953-1	1.557-1	2.192-5			
1.336-4	3.937+0	3.992+0	4.483+0	4.400+0	8.289-2	1.898-1	1.523-1	2.189-5			
1.406-4	3.939+0	3.995+0	4.480+0	4.400+0	8.041-2	1.841-1	1.479-1	2.191-5			
1.511-4	3.941+0	3.997+0	4.478+0	4.400+0	7.815-2	1.790-1	1.438-1	2.203-5			
1.601-4	3.943+0	3.998+0	4.476+0	4.400+0	7.633-2	1.748-1	1.405-1	2.219-5			
1.694-4	3.944+0	4.000+0	4.474+0	4.400+0	7.446-2	1.705-1	1.371-1	2.235-5			
1.789-4	3.946+0	4.002+0	4.473+0	4.400+0	7.254-2	1.661-1	1.337-1	2.250-5			
1.887-4	3.948+0	4.003+0	4.471+0	4.400+0	7.057-2	1.616-1	1.301-1	2.266-5			
1.998-4	3.949+0	4.005+0	4.469+0	4.400+0	6.855-2	1.570-1	1.264-1	2.280-5			
2.091-4	3.954+0	4.010+0	4.463+0	4.400+0	6.638-2	1.451-1	1.170-1	2.376-5			
2.741-4	3.959+0	4.015+0	4.457+0	4.400+0	5.742-2	1.315-1	1.062-1	2.558-5			
3.267-4	3.964+0	4.020+0	4.452+0	4.400+0	5.210-2	1.193-1	9.645-2	2.713-5			
3.811-4	3.968+0	4.025+0	4.447+0	4.400+0	4.711-2	1.079-1	8.731-2	2.957-5			
4.704-4	3.971+0	4.029+0	4.442+0	4.400+0	4.417-2	1.012-1	8.192-2	3.170-5			
5.951-4	3.973+0	4.029+0	4.440+0	4.400+0	4.241-2	9.712-2	7.868-2	3.369-5			
5.658-4	3.974+0	4.031+0	4.440+0	4.400+0	4.047-2	9.267-2	7.512-2	3.573-5			
6.042-4	3.976+0	4.032+0	4.439+0	4.400+0	3.916-2	8.968-2	7.272-2	3.709-5			
6.367-4	3.977+0	4.034+0	4.437+0	4.400+0	3.733-2	8.563-2	6.946-2	3.927-5			
7.156-4	3.979+0	4.036+0	4.435+0	4.400+0	3.495-2	8.005-2	6.498-2	4.323-5			
8.322-4	3.981+0	4.038+0	4.433+0	4.400+0	3.280-2	7.513-2	6.102-2	4.734-5			
9.177-4	3.981+0	4.038+0	4.433+0	4.400+0	3.050-2	6.986-2	5.675-2	5.187-5			
1.058-3	3.952+0	4.008+0	4.466+0	4.437+0	2.936-2	6.725-2	5.423-2	6.051-5			
1.307-3	3.907+0	3.963+0	4.517+0	4.489+0	2.845-2	6.517-2	5.197-2	7.220-5			
1.581-3	3.859+0	3.914+0	4.574+0	4.546+0	2.746-2	6.280-2	4.955-2	8.933-5			
1.882-3	3.821+0	3.875+0	4.742+0	4.716+0	2.645-2	6.058-2	4.605-2	9.844-5			
2.208-3	3.756+0	3.813+0	5.355+0	5.329+0	2.566-2	5.879-2	3.980-2	1.118+4			
2.581-3	3.662+0	3.735+0	7.473+0	7.430+0	4.226-2	9.681-2	4.673-2	1.322+4			
2.940-3	3.608+0	3.732+0	1.250+1	1.204+1	7.393-2	1.694+0	2.295+2	1.409+4			
3.345-3	3.562+0	3.681+0	1.296+1	1.291+1	5.351-2	1.226+1	3.418+2	1.637+4			
3.777-3	3.051+0	3.067+0	1.678+1	1.672+1	6.550-2	1.501+1	3.233+2	1.795+4			
4.234-3	3.194+0	3.197+0	9.068+0	9.026+0	4.202-2	3.628+2	3.841+2	2.293+4			
5.763-3	3.506+0	3.508+0	1.172+1	1.168+1	5.302-2	1.215+1	3.759+2	3.049+4			
7.527-3	3.630+0	3.631+0	2.103+1	2.097+1	6.480-2	1.465+1	2.578+2	3.933+4			
1.005-2	3.489+0	3.539+0	5.058+0	5.051+0	6.960-2	1.556+1	1.189+2	5.507+4			
1.511-2	3.160+0	3.175+0	1.003+2	1.002+2	6.383-2	1.465+1	5.986+2	7.119+4			
2.091-2	3.617+0	3.669+0	4.880+0	4.877+0	3.068-2	7.046+2	6.152+3	9.707+4			
2.646-2	3.924+0	3.984+0	1.815+1	1.812+1	2.490-2	5.721+2	1.252+2	1.221+3			
3.267-2	3.011+0	3.025+0	1.748+1	1.744+1	1.841-2	4.235+2	1.025+2	1.558+3			
3.953-2	3.134+0	3.162+0	9.124+0	9.112+0	1.232-2	2.835+2	1.290+2	1.781+3			
4.704-2	3.053+0	3.068+0	1.676+1	1.676+1	7.637-3	1.760+2	5.961+3	2.207+3			
5.761-2	3.193+0	3.024+0	8.845+0	8.839+0	5.990-3	6.132+2	6.196+3	2.614+3			
7.002-2	3.725+0	3.779+0	4.737+0	4.731+0	5.792-3	1.338+2	1.326+3	3.184+3			
9.322-2	4.777+0	4.845+0	3.694+0	3.689+0	5.612-3	1.299+2	1.633+3	3.811+3			
9.891-2	7.621+0	7.731+0	2.318+0	2.310+0	5.457-3	1.266+2	2.432+3	4.496+3			
1.307-1	1.189+1	1.205+1	1.486+0	1.480+0	5.334-3	1.244+2	3.643+3	6.835+3			
1.820-1	5.142+0	5.216+0	3.432+0	3.427+0	5.221-3	1.223+2	2.080+3	8.259+3			
2.165-1	1.159+1	1.184+1	1.511+0	1.506+0	5.133-3	1.207+2	3.775+3	7.775+3			
2.417-1	6.155+0	6.243+0	2.867+0	2.862+0	5.040-3	5.008+4	1.189+2	2.539+2	1.087+2		
2.710-1	4.916+0	5.025+0	3.590+0	3.583+0	4.963-3	2.174+2	3.317+2	1.166+2			
2.940-1	7.667+0	7.903+0	2.302+0	2.293+0	4.872-3	4.285+3	1.157+2	3.086+2	1.313+2		
3.345-1	7.879+0	8.203+0	2.251+0	2.240+0	4.762-3	3.707+3	1.143+2	3.273+2	1.458+2		
3.777-1	1.118+1	1.189+1	1.578+0	1.564+0	4.546-3	3.100+2	1.114+2	4.242+2	1.650+2		
4.234-1	6.341+0	6.863+0	2.781+0	2.764+0	4.471-3	1.452+2	1.080+2	3.311+2	1.820+2		
5.123-1	7.217+0	8.078+0	2.458+0	2.420+0	4.209-3	2.119+2	1.029+2	3.503+2	2.158+2		
6.325-1	5.360+0	6.230+0	3.122+0	3.259+0	3.931-3	2.951+2	9.737+3	3.872+2	2.497+2		

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ENDL 175 Group Neutron Constants

22-Ti-Nat

ATOMIC WEIGHT 4.74000 1

DENSITY 4.46000 0 GRAMS/CC

ENERGY MEV	MEP (CM)		CROSS SECTION (BARNES)						ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.		TOTAL	LOCAL
7.527-1	5.715+0	6.901+0	3.088+0	3.046+0	3.661-3	3.787-2	9.192-3		4.391-2	2.799-2
8.834-1	5.476+0	6.906+0	3.223+0	3.172+0	3.492-3	4.764-2	1.183-2		4.840-2	3.127-2
1.025+0	6.179+0	7.974+0	2.856+0	2.654+0	3.234-3	3.991-1	1.588-1		1.056-1	3.491-2
1.176+0	5.752+0	7.252+0	3.068+0	2.652+0	3.130-3	4.129-1	3.568-1		1.741-1	3.970-2
1.338+0	5.894+0	6.367+0	3.465+0	2.935+0	3.020-3	5.253-1	4.709-1		1.973-1	4.505-2
1.511+0	5.491+0	6.820+0	3.220+0	2.694+0	2.912-3	5.231-1	5.755-1		2.160-1	4.976-2
1.694+0	6.054+0	7.652+0	2.915+0	2.304+0	2.798-3	6.087-1	6.796-1		2.719-1	5.394-2
1.887+0	5.768+0	7.507+0	3.060+0	2.393+0	2.684-3	6.637-1	7.664-1		2.902-1	5.800-2
2.091+0	5.446+0	7.320+0	3.241+0	2.519+0	2.569-3	7.195-1	8.302-1		3.059-1	6.173-2
2.305+0	5.146+0	7.156+0	3.430+0	2.649+0	2.454-3	7.783-1	8.922-1		3.229-1	6.556-2
2.530+0	5.000+0	7.153+0	3.529+0	2.673+0	2.344-3	8.542-1	9.549-1		3.680-1	6.832-2
2.741+0	4.933+0	7.200+0	3.577+0	2.625+0	2.229-3	9.503-1	1.029+0		4.491-1	7.029-2
3.011+0	4.899+0	7.360+0	3.602+0	2.565+0	2.110-3	1.025+0	1.236+0		5.336-1	7.229-2
3.267+0	4.899+0	7.566+0	3.602+0	2.500+0	1.997-3	1.100+0	1.555+0		6.106-1	7.420-2
3.533+0	4.900+0	7.775+0	3.602+0	2.432+0	1.886-3	1.168+0	1.886+0		6.987-1	7.569-2
3.811+0	4.901+0	7.994+0	3.601+0	2.365+0	1.784-3	1.234+0	2.212+0		7.936-1	7.681-2
4.069+0	4.932+0	8.221+0	3.578+0	2.260+0	1.677-3	1.296+0	2.569+0		9.058-1	7.940-2
4.396+0	4.978+0	8.238+0	3.547+0	2.185+0	1.572-3	1.360+0	2.957+0		1.040+0	8.357-2
4.704+0	5.018+0	8.217+0	3.517+0	2.095+0	1.474-3	1.420+0	3.319+0		1.178+0	8.791-2
4.991+0	5.082+0	8.271+0	3.473+0	2.020+0	1.378-3	1.451+0	3.531+0		1.314+0	9.243-2
5.353+0	5.165+0	8.434+0	3.417+0	1.962+0	1.263-3	1.454+0	3.681+0		1.437+0	9.701-2
5.658+0	5.253+0	8.584+0	3.360+0	1.901+0	1.216-3	1.457+0	3.632+0		1.569+0	1.017-1
6.042+0	5.344+0	8.750+0	3.302+0	1.839+0	2.950-3	1.460+0	3.685+0		1.712+0	1.070-1
6.367+0	5.435+0	8.691+0	3.274+0	1.778+0	6.004-3	1.463+0	3.737+0		1.862+0	1.125-1
6.737+0	5.540+0	9.056+0	3.186+0	1.712+0	9.628-3	1.464+0	3.788+0		2.045+0	1.193-1
7.155+0	5.642+0	9.301+0	3.128+0	1.671+0	1.434-2	1.447+0	3.762+0		2.206+0	1.261-1
7.548+0	5.737+0	9.557+0	3.076+0	1.639+0	1.697-2	1.418+0	3.717+0		2.348+0	1.326-1
7.910+0	5.840+0	9.823+0	3.022+0	1.607+0	2.365-2	1.391+0	3.670+0		2.487+0	1.394-1
8.322+0	5.967+0	1.015+0	2.958+0	1.570+0	2.86-2	1.358+0	3.618+0		2.627+0	1.470-1
8.787+0	6.096+0	1.051+0	2.895+0	1.535+0	3.369-2	1.326+0	3.567+0		2.766+0	1.562-1
9.177+0	6.234+0	1.074+0	2.831+0	1.498+0	3.925-2	1.293+0	3.514+0		2.915+0	1.676-1
9.665+0	6.388+0	1.100+0	2.763+0	1.459+0	4.468-2	1.259+0	3.457+0		3.078+0	1.808-1
1.012+1	6.491+0	1.113+0	2.719+0	1.421+0	5.134-2	1.239+0	3.402+0		3.240+0	1.959-1
1.058+1	6.574+0	1.122+0	2.684+0	1.403+0	5.624-2	1.226+0	3.349+0		3.401+0	2.120-1
1.101+1	6.666+0	1.132+0	2.647+0	1.370+0	6.568-2	1.212+0	3.291+0		3.579+0	2.305-1
1.155+1	6.763+0	1.142+0	2.610+0	1.339+0	7.326-2	1.197+0	3.232+0		3.765+0	2.504-1
1.199+1	6.843+0	1.148+0	2.579+0	1.310+0	8.062-2	1.189+0	2.995+0		3.605+0	2.691-1
1.250+1	7.063+0	1.189+0	2.499+0	1.276+0	9.226-2	1.130+0	2.539+0		3.370+0	2.868-1
1.307+1	7.222+0	1.200+0	2.444+0	1.243+0	1.616-1	1.099+0	2.095+0		2.962+0	3.021-1
1.354+1	7.230+0	1.177+0	2.441+0	1.219+0	1.059-1	1.117+0	1.757+0		2.839+0	3.112-1
1.386+1	7.237+0	1.162+0	2.439+0	1.202+0	1.087-1	1.128+0	1.534+0		2.751+0	3.170-1
1.413+1	7.253+0	1.157+0	2.433+0	1.195+0	1.091-1	1.129+0	1.504+0		2.72+0	3.208-1
1.441+1	7.273+0	1.154+0	2.427+0	1.191+0	1.084-1	1.127+0	1.504+0		2.733+0	3.234-1
1.468+1	7.310+0	1.157+0	2.414+0	1.184+0	1.077-1	1.125+0	1.504+0		2.720+0	3.247-1
1.491+1	7.376+0	1.176+0	2.393+0	1.175+0	9.831-2	1.118+0	1.504+0		2.794+0	3.426-1
1.575+1	7.450+0	1.197+0	2.369+0	1.166+0	9.259-2	1.109+0	1.831+0		2.899+0	3.660-1
1.633+1	7.527+0	1.213+0	2.345+0	1.156+0	8.794-2	1.101+0	3.125+0		3.004+0	3.895-1
1.692+1	7.608+0	1.225+0	2.320+0	1.146+0	8.118-2	2.1092+0	3.204+0		3.107+0	4.122-1
1.727+1	7.694+0	1.238+0	2.294+0	1.136+0	7.502-2	2.083+0	3.204+0		3.220+0	4.240-1
1.813+1	7.788+0	1.252+0	2.267+0	1.126+0	6.806-2	2.073+0	3.204+0		3.344+0	4.268-1
1.875+1	7.924+0	1.277+0	2.227+0	1.110+0	5.753-2	2.059+0	3.204+0		3.529+0	4.284-1
2.000+1										
RESIDUAL INTEGRALS			1.541+2	1.481+2	2.931+0	3.053+0	1.273+1			
MAXWELLIAN AVERAGES			9.628+0	4.400+0	5.428+0		1.243+1			
1/E AVERAGES			8.804+0	8.462+0	1.674+1	1.744+1	7.272+1			
FISSION AVERAGES			3.309+0	2.728+0	3.691+3	5.774+1	8.937+1			
FUSION AVERAGES			2.436+0	1.205+0	1.073+1	1.123+0	1.616+0			

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ATOMIC WEIGHT		5.0942+1		DENSITY		6.1000+0 GRAMS/CC	
ENERGY		MFP (CM)		CROSS SECTION (BARNs)			ENERGY DEPOSIT(MEV)
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.
							TOTAL LOCAL
1.307-8	7.062-1	7.086-1	1.964+1	5.000+0	1.464+1	2.649+1	5.456+0 4.125-4
5.227-8	1.120+0	1.126+0	1.238+1	5.000+0	7.383+0	1.336+1	4.364+0 3.300-4
2.091-8	1.395+0	1.404+0	9.943+0	5.000+0	4.943+0	9.947+0	3.639+0 2.752-4
3.267-8	1.532+0	1.543+0	9.051+0	5.000+0	4.051+0	7.333+0	3.277+0 2.474-4
4.704-8	1.684+0	1.707+0	8.188+0	5.000+0	3.188+0	5.771+0	2.850+0 2.155-4
6.322-8	1.853+0	1.869+0	7.484+0	5.000+0	2.484+0	4.496+0	2.430+0 1.837-4
1.307-7	1.973+0	1.991+0	7.030+0	5.000+0	2.030+0	3.674+0	2.114+0 1.599-4
1.882-7	2.065+0	2.085+0	6.717+0	5.000+0	1.717+0	3.107+0	1.871+0 1.415-4
2.561-7	2.137+0	2.158+0	6.468+0	5.000+0	1.468+0	2.694+0	1.679+0 1.270-4
3.345-7	2.197+0	2.220+0	6.313+0	5.000+0	1.313+0	2.376+0	1.522+0 1.152-4
4.234-7	2.244+0	2.268+0	6.180+0	5.000+0	1.180+0	2.136+0	1.398+0 1.058-4
5.123-7	2.304+0	2.330+0	6.018+0	5.000+0	1.018+0	1.843+0	1.239+0 9.378-5
7.527-7	2.380+0	2.407+0	5.826+0	5.000+0	8.265+0	1.496+0	1.038+0 7.967-5
1.176-6	2.434+0	2.462+0	5.658+0	5.000+0	6.979+0	1.263+0	8.966+0 6.799-5
1.511-6	2.475+0	2.504+0	5.604+0	5.000+0	6.038+0	1.093+0	7.889+0 5.989-5
2.091-6	2.512+0	2.542+0	5.521+0	5.000+0	5.207+0	9.425+0	6.905+0 5.251-5
2.741-6	2.541+0	2.572+0	5.457+0	5.000+0	4.573+0	8.277+0	6.134+0 4.674-5
3.533-6	2.568+0	2.600+0	5.399+0	5.000+0	3.994+0	7.229+0	5.415+0 4.138-5
4.704-6	2.589+0	2.622+0	5.355+0	5.000+0	3.558+0	6.439+0	4.863+0 3.729-5
5.658-6	2.604+0	2.637+0	5.325+0	5.000+0	3.253+0	5.689+0	4.472+0 3.440-5
6.737-6	2.619+0	2.652+0	5.299+0	5.000+0	2.955+0	5.348+0	4.080+0 3.156-5
8.322-6	2.631+0	2.664+0	5.271+0	5.000+0	2.705+0	4.896+0	3.757+0 2.918-5
9.620-6	2.640+0	2.674+0	5.252+0	5.000+0	2.523+0	4.567+0	3.517+0 2.745-5
1.101-5	2.650+0	2.683+0	5.234+0	5.000+0	2.337+0	4.230+0	3.269+0 2.568-5
1.307-5	2.659+0	2.692+0	5.218+0	5.000+0	2.177+0	3.940+0	3.054+0 2.416-5
1.468-5	2.663+0	2.697+0	5.208+0	5.000+0	2.077+0	3.759+0	2.919+0 2.323-5
1.581-5	2.668+0	2.702+0	5.198+0	5.000+0	1.984+0	3.592+0	2.794+0 2.236-5
1.758-5	2.672+0	2.706+0	5.190+0	5.000+0	1.902+0	3.443+0	2.683+0 2.160-5
1.882-5	2.678+0	2.710+0	5.182+0	5.000+0	1.824+0	3.301+0	2.576+0 2.089-5
2.075-5	2.680+0	2.715+0	5.174+0	5.000+0	1.740+0	3.149+0	2.461+0 2.013-5
2.277-5	2.684+0	2.718+0	5.168+0	5.000+0	1.675+0	3.032+0	2.373+0 1.955-5
2.477-5	2.686+0	2.721+0	5.163+0	5.000+0	1.627+0	2.945+0	2.307+0 1.913-5
2.581-5	2.688+0	2.723+0	5.158+0	5.000+0	1.580+0	2.860+0	2.243+0 1.872-5
2.710-5	2.691+0	2.726+0	5.154+0	5.000+0	1.539+0	2.785+0	2.186+0 1.837-5
2.862-5	2.692+0	2.727+0	5.151+0	5.000+0	1.507+0	2.728+0	2.142+0 1.810-5
2.940-5	2.694+0	2.729+0	5.148+0	5.000+0	1.477+0	2.673+0	2.100+0 1.784-5
3.099-5	2.696+0	2.731+0	5.143+0	5.000+0	1.431+0	2.590+0	2.037+0 1.747-5
3.345-5	2.699+0	2.734+0	5.138+0	5.000+0	1.378+0	2.494+0	1.963+0 1.704-5
3.601-5	2.702+0	2.737+0	5.133+0	5.000+0	1.330+0	2.408+0	1.897+0 1.668-5
3.866-5	2.703+0	2.739+0	5.130+0	5.000+0	1.291+0	2.337+0	1.842+0 1.637-5
4.048-5	2.698+0	2.734+0	5.133+0	5.013+0	1.265+0	2.289+0	1.802+0 1.616-5
4.234-5	2.693+0	2.728+0	5.150+0	5.025+0	1.245+0	2.254+0	1.770+0 1.599-5
4.329-5	2.695+0	2.720+0	5.165+0	5.043+0	1.222+0	2.211+0	1.731+0 1.579-5
4.619-5	2.677+0	2.712+0	5.180+0	5.060+0	1.199+0	2.171+0	1.695+0 1.561-5
4.717-5	2.671+0	2.706+0	5.182+0	5.074+0	1.182+0	2.139+0	1.666+0 1.547-5
4.918-5	2.663+0	2.698+0	5.208+0	5.092+0	1.160+0	2.099+0	1.630+0 1.529-5
5.123-5	2.654+0	2.689+0	5.225+0	5.111+0	1.140+0	2.063+0	1.597+0 1.514-5
5.332-5	2.643+0	2.678+0	5.246+0	5.135+0	1.115+0	2.018+0	1.555+0 1.495-5
5.694-5	2.635+0	2.669+0	5.264+0	5.154+0	1.095+0	1.991+0	1.522+0 1.480-5
5.763-5	2.626+0	2.660+0	5.282+0	5.174+0	1.077+0	1.950+0	1.483+0 1.468-5
6.097-5	2.614+0	2.648+0	5.305+0	5.199+0	1.055+0	1.910+0	1.456+0 1.454-5
6.325-5	2.606+0	2.639+0	5.324+0	5.220+0	1.037+0	1.870+0	1.426+0 1.442-5
6.557-5	2.599+0	2.632+0	5.338+0	5.236+0	1.025+0	1.876+0	1.406+0 1.434-5
6.674-5	2.589+0	2.622+0	5.358+0	5.257+0	1.010+0	1.828+0	1.379+0 1.426-5
7.034-5	2.578+0	2.612+0	5.378+0	5.275+0	9.942-2	1.799+0	1.353+0 1.417-5
7.155-5	2.568+0	2.602+0	5.399+0	5.301+0	9.785-2	1.771+0	1.327+0 1.408-5
7.527-5	2.556+0	2.589+0	5.426+0	5.330+0	9.608-2	1.739+0	1.296+0 1.399-5
7.780-5	2.548+0	2.582+0	5.442+0	5.347+0	9.506-2	1.721+0	1.279+0 1.395-5
7.908-5	2.541+0	2.574+0	5.459+0	5.364+0	9.401-2	1.702+0	1.261+0 1.390-5
8.167-5	2.530+0	2.564+0	5.480+0	5.388+0	9.261-2	1.676+0	1.237+0 1.383-5
8.431-5	2.517+0	2.550+0	5.509+0	5.418+0	9.104-2	1.648+0	1.210+0 1.378-5
8.834-5	2.504+0	2.537+0	5.538+0	5.448+0	8.952-2	1.620+0	1.193+0 1.373-5

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ATOMIC WEIGHT 5.0942* 1		DENSITY 6.1000* 0 GRAMS/CC							
ENERGY		MFP (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT(MEV)	
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.108-5	2.493+0	2.526+0	5.561+0	5.473+0	8.828-2	1.598-1	1.152-1	1.369-5	
9.386-5	2.483+0	2.515+0	5.586+0	5.498+0	8.708-2	1.576-1	1.141-1	1.366-5	
5.660-5	2.475+0	2.507+0	5.604+0	5.518+0	8.633-2	1.563-1	1.128-1	1.365-5	
9.811-5	2.464+0	2.496+0	5.629+0	5.544+0	8.533-2	1.544-1	1.110-1	1.364-5	
1.025+4	2.441+0	2.474+0	5.680+0	5.597+0	8.329-2	1.508-1	1.073-1	1.363-5	
1.099+4	2.413+0	2.445+0	5.766+0	5.665+0	8.066-2	1.460-1	1.028-1	1.351-5	
1.176+4	2.376+0	2.408+0	5.836+0	5.757+0	7.886-2	1.427-1	9.892-2	1.366-5	
1.256+4	2.314+0	2.344+0	5.994+0	5.914+0	7.966-2	1.442-1	9.730-2	1.392-5	
1.338+4	2.257+0	2.287+0	6.145+0	6.064+0	8.063-2	1.459-1	9.606-2	1.418-5	
1.406+4	2.136+0	2.164+0	6.491+0	6.394+0	9.694-2	1.755-1	1.093-1	1.588-5	
1.511+4	1.963+0	1.989+0	7.054+0	6.916+0	1.485-1	2.688-1	1.539-1	2.066-5	
1.601+4	1.365+0	1.381+0	1.016+1	1.394+1	1.218+0	2.205+0	8.778-1	9.143-5	
1.694+4	1.516+0	1.536+0	9.145+0	8.751+0	3.939-1	7.130-1	3.153-1	3.748-5	
1.789+4	1.977+0	2.003+0	7.015+0	6.919+0	9.598-2	1.737-1	1.002-1	1.693-5	
1.887+4	2.260+0	2.290+0	6.135+0	6.063+0	7.189-2	1.301-1	8.579-2	1.600-5	
1.988+4	2.342+0	2.373+0	5.922+0	5.855+0	6.636-2	1.201-1	8.205-2	1.612-5	
2.091+4	2.420+0	2.452+0	5.731+0	5.675+0	5.578-2	1.010-1	7.126-2	1.680-5	
2.241+4	2.322+0	2.353+0	5.973+0	5.924+0	4.894-2	8.859-2	6.000-2	1.629-5	
2.267+4	2.297+0	2.327+0	6.038+0	5.991+0	4.862-2	8.439-2	5.654-2	2.032-5	
3.811+4	2.278+0	2.308+0	6.088+0	6.044+0	4.425-2	8.010-2	5.323-2	2.315-5	
4.704+4	2.262+0	2.293+0	5.129+0	6.087+0	4.230-2	7.657-2	5.054-2	2.543-5	
4.991+4	2.250+0	2.280+0	1.163+0	6.122+0	4.073-2	7.373-2	4.844-2	2.725-5	
5.650+4	2.237+0	2.267+0	6.205+0	5.161+0	3.899-2	7.059-2	4.607-2	2.822-5	
6.042+4	2.228+0	2.258+0	6.224+0	5.186+0	3.782-2	6.847-2	4.451-2	3.054-5	
6.367+4	2.214+0	2.244+0	6.263+0	6.227+0	3.599-2	6.514-2	4.209-2	3.259-5	
7.156+4	2.189+0	2.218+0	6.336+0	6.304+0	3.286-2	5.948-2	3.800-2	3.612-5	
8.322+4	2.140+0	2.168+0	6.491+0	6.450+0	3.108-2	5.625-2	3.514-2	3.993-5	
9.177+4	2.069+0	2.096+0	6.703+0	6.674+0	2.991-2	5.414-2	3.270-2	4.427-5	
1.058+5	1.885+0	1.989+0	7.437+0	7.408+0	2.919-2	5.285-2	2.878-2	5.170-5	
1.307+5	1.551+0	1.571+0	8.943+0	8.908+0	3.434-2	6.217-2	2.817-2	6.233-5	
1.581+5	1.670+0	1.692+0	8.304+0	8.276+0	2.776-2	5.027-2	2.453-2	7.323-5	
1.882+5	1.605+0	1.626+0	8.640+0	8.612+0	2.823-2	5.111-2	2.400-2	8.607-5	
2.208+5	1.395+0	1.413+0	9.942+0	9.911+0	3.090-2	5.595-2	2.285-2	9.973-5	
2.561+5	1.363+0	1.097+0	1.281+1	1.277+1	3.741-2	6.773-2	2.150-2	1.143+4	
2.940+5	6.783+1	6.873+1	2.045+1	2.039+1	5.449-2	9.887-2	1.954+0	1.299+4	
3.345+5	2.389+1	2.421+1	5.804+1	5.791+1	1.257-1	2.276-1	1.600-2	1.463+4	
3.777+5	5.608+2	5.683+2	2.473+2	2.469+2	4.070+1	7.370+1	1.221-2	1.613+4	
4.234+5	1.104+1	1.119+1	1.256+2	1.255+2	1.219+1	2.207+1	7.291-3	1.875+4	
5.763+5	1.127+1	1.142+1	1.230+2	1.229+2	8.179+2	1.482+1	5.124+3	2.576+4	
7.527+5	3.365+1	4.423+1	3.177+1	3.174+1	1.721+2	4.931+2	6.628+3	3.583+4	
1.025+6	2.710+1	1.733+1	8.110+1	8.108+1	1.735+2	3.144+2	2.041+3	4.758+4	
1.511+6	3.705+1	3.754+1	3.743+1	3.737+1	6.130+2	1.112+1	1.287+4	6.881+4	
2.091+6	2.504+1	6.591+1	2.132+1	2.130+1	2.144+2	3.893+2	8.271+3	9.090+4	
2.646+6	1.330+1	1.348+1	1.043+1	1.041+1	1.367+2	2.483+2	1.075+2	1.157+3	
3.267+6	2.293+1	3.296+1	4.263+1	4.252+1	1.082+2	3.318+2	2.004+2	1.454+3	
3.953+6	2.775+1	2.812+1	4.597+1	4.588+1	9.020+3	3.781+2	1.486+2	1.649+3	
4.704+6	2.217+1	2.247+1	6.255+1	6.247+1	7.827+3	3.538+2	1.120+2	2.034+3	
5.761+6	1.038+1	1.052+1	1.326+1	1.325+1	7.039+3	3.229+2	6.395+3	2.537+3	
7.002+6	2.098+1	2.116+1	6.691+1	6.635+1	6.541+3	2.883+2	1.018+2	2.866+3	
8.322+6	2.626+1	2.661+1	5.281+1	5.275+1	6.289+3	2.454+2	1.222+2	3.501+3	
9.891+6	2.205+1	2.234+1	6.290+1	6.284+1	6.096+3	5.109+2	1.172+2	4.624+3	
1.307+7	1.320+1	2.351+1	5.978+1	5.973+1	5.717+3	1.311+1	1.314+2	6.136+3	
1.820+7	2.206+1	2.235+1	6.287+1	6.281+1	5.251+3	2.051+1	1.366+2	7.544+3	
2.075+7	3.710+1	3.81+1	3.687+1	3.682+1	4.828+3	2.627+1	1.848+2	8.890+3	
2.417+7	1.684+1	2.770+1	5.166+1	5.162+1	4.416+3	3.239+1	1.617+2	9.912+3	
2.710+7	1.039+1	3.080+1	4.563+1	4.559+1	4.091+3	3.744+1	1.759+2	1.103+2	
2.940+7	1.638+1	2.734+1	5.141+1	5.130+1	3.751+3	6.985+3	4.356+1	1.185+2	
3.345+7	1.339+1	3.587+1	4.154+1	4.012+1	3.340+3	1.381+1	5.163+1	2.924+2	
3.777+7	1.670+1	4.033+1	3.779+1	3.568+1	2.942+3	2.172+1	6.019+1	3.282+2	
4.234+7	1.832+1	4.319+1	3.619+1	3.372+1	2.380+3	2.443+1	7.308+1	4.779+2	
5.123+7	4.666+1	5.443+1	2.978+1	2.595+1	1.802+3	2.751+1	8.585+1	5.305+2	
6.328+7	4.155+1	4.634+1	3.337+1	3.027+1	1.637+3	3.084+1	9.660+1	2.283+2	

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23-V -51

04/12/76

ENDL 175 Group Neutron Constants

23-V -51

ATOMIC WEIGHT 5.0942+ 1

DENSITY 6.1000+ 0 GRAMS/CC

ENERGY	HFP (CM)		CROSS SECTION (BARN)					ENERGY DEPOSIT(MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1	4.726+0	5.549+0	2.93+0	2.59+0	1.616-3	3.389-1	1.078+0	6.835-2	2.747-2
8.834-1	4.073+0	4.642+0	3.405+0	3.026+0	1.584-3	3.770-1	1.200+0	7.159-2	3.070-2
1.025+0	4.325+0	5.102+0	3.206+0	2.770+0	1.534-3	4.346-1	1.321+0	9.034-2	3.507-2
1.178+0	4.253+0	5.032+0	3.260+0	2.783+0	1.478-3	4.755-1	1.441+0	1.015-1	3.995-2
1.338+0	4.221+0	5.052+0	3.295+0	2.771+0	1.407-3	5.125-1	1.545+0	1.123-1	4.336-2
1.511+0	4.182+0	5.201+0	3.316+0	2.765+0	1.337-3	5.499-1	1.767+0	1.256-1	4.774-2
1.694+0	4.150+0	5.357+0	3.333+0	2.651+0	1.268-3	6.813-1	2.090+0	1.907-1	5.049-2
1.887+0	4.142+0	5.814+0	3.122+0	2.299+0	1.201-3	8.215-1	2.404+0	2.898-1	5.221-2
2.091+0	4.029+0	5.623+0	3.442+0	2.554+0	1.098-3	8.869-1	2.528+0	3.093-1	5.504-2
2.305+0	3.761+0	5.472+0	3.687+0	2.757+0	1.001-3	9.291-1	2.618+0	3.431-1	5.677-2
2.530+0	3.549+0	5.390+0	3.908+0	2.931+0	9.210-4	9.764-1	2.703+0	4.626-1	5.390-2
2.74+0	3.631+0	5.666+0	3.819+0	2.783+0	8.478-4	1.025+0	2.799+0	5.462-1	5.510-2
3.011+0	3.549+0	5.799+0	3.903+0	2.834+0	9.231-4	1.074+0	2.853+0	6.084-1	5.711-2
3.267+0	3.547+0	5.902+0	3.910+0	2.793+0	1.609-3	1.116+0	2.860+0	6.854-1	5.972-2
3.533+0	3.595+0	6.068+0	3.857+0	2.698+0	2.426-3	1.157+0	2.867+0	7.602-1	6.219-2
3.811+0	3.631+0	6.238+0	3.920+0	2.627+0	3.186-3	1.190+0	2.876+0	8.711-1	6.444+0
4.069+0	3.665+0	6.393+0	3.782+0	2.555+0	4.005-3	1.223+0	2.910+0	9.702-1	6.658+0
4.396+0	3.707+0	6.566+0	3.741+0	2.480+0	4.905-3	1.257+0	2.957+0	1.062+0	6.916+0
4.704+0	3.750+0	6.764+0	3.698+0	2.424+0	5.899-3	1.288+0	3.001+0	1.176+0	7.240+0
4.991+0	3.800+0	6.916+0	3.650+0	2.369+0	7.010-3	1.273+0	3.068+0	1.277+0	7.583+0
5.353+0	3.853+0	7.101+0	3.599+0	2.313+0	8.164-3	1.276+0	3.154+0	1.385+0	7.928+0
5.658+0	3.909+0	7.267+0	3.548+0	2.255+0	9.358-3	1.284+0	3.244+0	1.500+0	8.290+0
6.042+0	3.968+0	7.457+0	3.495+0	2.195+0	1.058-2	1.289+0	3.340+0	1.633+0	8.708+0
6.387+0	4.033+0	7.560+0	3.439+0	2.135+0	1.181-2	1.291+0	3.439+0	1.775+0	9.172+0
6.737+0	4.125+0	7.733+0	3.362+0	2.068+0	1.333-2	1.281+0	3.547+0	1.929+0	9.710+0
7.156+0	4.215+0	7.939+0	3.280+0	2.012+0	1.532-2	1.262+0	3.622+0	2.084+0	1.025+1
7.548+0	4.300+0	8.141+0	3.225+0	1.964+0	1.729-2	1.244+0	3.692+0	2.229+0	1.077+1
7.910+0	4.391+0	8.347+0	3.158+0	1.915+0	1.930-2	1.224+0	3.738+0	2.374+0	1.137+1
8.322+0	4.499+0	8.535+0	3.083+0	1.850+0	2.156-2	1.202+0	3.787+0	2.527+0	1.218+1
8.787+0	4.608+0	8.711+0	3.009+0	1.804+0	2.381-2	1.181+0	3.836+0	2.679+0	1.301+1
9.177+0	4.728+0	8.896+0	2.933+0	1.749+0	2.610-2	1.159+0	3.900+0	2.839+0	1.390+1
9.665+0	4.862+0	9.105+0	2.852+0	1.688+0	2.855-2	1.136+0	3.973+0	3.015+0	1.490+1
1.012+1	5.001+0	9.318+0	2.773+0	1.629+0	3.095-2	1.113+0	4.069+0	3.198+0	1.599+1
1.058+1	5.144+0	9.533+0	2.696+0	1.572+0	3.327-2	1.090+0	4.172+0	3.383+0	1.712+1
1.101+1	5.289+0	9.731+0	2.622+0	1.515+0	3.676-2	1.071+0	4.253+0	3.499+0	1.853+1
1.155+1	5.417+0	9.779+0	2.560+0	1.457+0	4.132-2	1.061+0	4.314+0	3.457+0	2.022+1
1.199+1	5.537+0	9.832+0	2.505+0	1.406+0	4.568-2	1.053+0	4.375+0	3.331+0	2.193+1
1.250+1	5.676+0	9.882+0	2.443+0	1.347+0	5.052-2	1.045+0	4.427+0	3.049+0	2.407+1
1.307+1	5.803+0	9.995+0	2.390+0	1.292+0	5.521-2	1.042+0	4.974+0	2.746+0	2.632+1
1.354+1	5.995+0	9.888+0	2.352+0	1.252+0	5.879-2	1.042+0	3.852+0	2.534+0	2.812+1
1.386+1	5.964+0	9.886+0	2.325+0	1.222+0	6.146-2	1.042+0	3.761+0	2.387+0	2.951+1
1.413+1	6.020+0	9.875+0	2.303+0	1.197+0	6.390-2	1.043+0	3.689+0	2.306+0	3.080+1
1.441+1	6.076+0	9.863+0	2.282+0	1.174+0	6.637-2	1.045+0	3.608+0	2.236+0	3.213+1
1.458+1	6.150+0	9.868+0	2.253+0	1.138+0	6.960-2	1.045+0	3.502+0	2.150+0	3.401+1
1.519+1	6.239+0	9.990+0	2.223+0	1.127+0	7.092-2	1.025+0	3.390+0	2.150+0	3.572+1
1.575+1	6.311+0	1.016+1	2.197+0	1.123+0	7.148-2	1.002+0	3.301+0	2.194+0	3.731+1
1.633+1	6.327+0	1.018+1	2.192+0	1.120+0	7.204-2	1.000+0	3.316+0	2.309+0	3.888+1
1.692+1	6.335+0	1.018+1	2.189+0	1.116+0	7.262-2	1.000+0	3.313+0	2.434+0	4.049+1
1.752+1	6.344+0	1.018+1	2.186+0	1.113+0	7.320-2	1.000+0	3.268+0	2.567+0	4.214+1
1.813+1	6.353+0	1.018+1	2.183+0	1.109+0	7.380-2	1.000+0	3.229+0	2.706+0	4.383+1
1.875+1	6.365+0	1.019+1	2.178+0	1.104+0	7.470-2	1.000+0	3.224+0	2.917+0	4.662+1
2.000+1									
RESONANCE INTEGRALS			2.510+2	2.451+2	2.607+0	3.244+0	1.455+1		
MAXWELLIAN AVERAGES			9.491+0	5.000+0	4.491+0		8.130+0		
1/E AVERAGES			1.434+1	1.400+1	1.469+1	1.853+1	8.311+1		
FISSION AVERAGES			3.712+0	3.038+0	2.813+3	6.714+1	1.889+0		
FUSION AVERAGES			2.322+0	1.217+0	6.203+2	1.043+0	3.746+0

04/12/76

ENDL 175 Group Neutron Constants

24-Cr-Nat

ATOMIC HEIGHT		5.1998+1		DENSITY		7.1903+0 (GMS)/CC				
ENERGY		HFP (C4)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.507-9	8.989-1	9.025-1	1.336-1	4.100-0	9.258-0	1.731-1	6.411-0	6.003-4		
5.227-9	1.384-0	1.392-0	8.679-0	4.100-0	4.579-0	8.563-0	4.880-0	4.500-4		
2.091-8	1.691-0	1.694-0	7.142-0	4.100-0	3.042-0	5.888-0	3.940-0	3.889-4		
3.267-9	1.824-0	1.839-0	6.583-0	4.100-0	2.463-0	3.644-0	3.480-0	3.367-4		
4.704-9	2.362-0	2.006-0	6.040-0	4.100-0	1.940-0	3.629-0	2.972-0	2.782-4		
8.322-9	2.143-0	2.184-0	5.603-0	4.100-0	1.503-0	2.911-0	2.482-0	2.324-4		
1.307-7	2.252-0	2.275-0	5.332-0	4.100-0	1.232-0	2.304-0	2.137-0	2.001-4		
1.882-7	2.400-0	2.364-0	5.133-0	4.100-0	1.033-0	1.931-0	1.861-0	1.743-4		
2.561-7	2.401-0	2.427-0	5.001-0	4.100-0	9.005-1	1.684-0	1.666-0	1.560-4		
3.345-7	2.452-0	2.479-0	4.856-0	4.100-0	7.965-1	1.489-0	1.505-0	1.410-4		
4.234-7	2.494-0	2.521-0	4.816-0	4.100-0	7.159-1	1.339-0	1.375-0	1.286-4		
5.123-7	2.520-0	2.579-0	4.709-0	4.092-0	6.178-1	1.155-0	1.213-0	1.137-4		
7.527-7	2.630-0	2.661-0	4.565-0	4.061-0	5.041-1	9.426-1	1.021-0	9.576-5		
1.176-6	2.645-0	2.676-0	4.540-0	4.099-0	4.407-1	8.240-1	8.978-1	8.424-5		
1.511-6	2.645-0	2.677-0	4.504-0	4.164-0	3.755-1	7.022-1	7.651-1	7.180-5		
2.091-6	2.655-0	2.687-0	4.523-0	4.204-0	3.195-1	5.975-1	6.534-1	6.143-5		
2.741-6	2.674-0	2.706-0	4.491-0	4.214-0	2.778-1	5.194-1	5.720-1	5.368-5		
3.533-6	2.705-0	2.738-0	4.439-0	4.197-0	2.421-1	4.527-1	5.044-1	4.759-5		
4.704-6	2.728-0	2.762-0	4.401-0	4.136-0	2.159-1	4.037-1	4.537-1	4.291-5		
5.658-6	2.730-0	2.764-0	4.398-0	4.201-0	1.976-1	3.694-1	4.155-1	3.940-5		
6.737-6	2.733-0	2.767-0	4.394-0	4.215-0	1.793-1	3.352-1	3.773-1	3.590-5		
8.322-6	2.741-0	2.775-0	4.381-0	4.218-0	1.635-1	3.057-1	3.451-1	3.296-5		
9.620-6	2.744-0	2.779-0	4.376-0	4.222-0	1.539-1	2.871-1	3.246-1	3.112-5		
1.101-5	2.745-0	2.780-0	4.375-0	4.225-0	1.445-1	2.720-1	3.076-1	2.983-5		
1.307-5	2.746-0	2.780-0	4.374-0	4.237-0	1.371-1	2.563-1	2.899-1	2.807-5		
1.468-5	2.746-0	2.781-0	4.373-0	4.242-0	1.308-1	2.446-1	2.767-1	2.690-5		
1.501-5	2.747-0	2.782-0	4.372-0	4.248-0	1.241-1	2.321-1	2.627-1	2.566-5		
1.750-5	2.747-0	2.782-0	4.371-0	4.254-0	1.173-1	2.193-1	2.481-1	2.437-5		
1.882-5	2.748-0	2.783-0	4.370-0	4.260-0	1.104-1	2.065-1	2.337-1	2.309-5		
2.075-5	2.750-0	2.785-0	4.367-0	4.261-0	1.057-1	1.976-1	2.239-1	2.227-5		
2.277-5	2.752-0	2.789-0	4.363-0	4.261-0	1.024-1	1.855-1	2.171-1	2.172-5		
2.417-5	2.754-0	2.789-0	4.360-0	4.261-0	9.972-2	1.665-1	2.115-1	2.127-5		
2.561-5	2.756-0	2.791-0	4.357-0	4.260-0	9.693-2	1.813-1	2.058-1	2.080-5		
2.710-5	2.758-0	2.793-0	4.354-0	4.260-0	9.407-2	1.759-1	1.998-1	2.032-5		
2.862-5	2.759-0	2.795-0	4.352-0	4.260-0	9.189-2	1.718-1	1.953-1	1.994-5		
2.940-5	2.761-0	2.796-0	4.350-0	4.260-0	8.983-2	1.680-1	1.910-1	1.960-5		
3.095-5	2.762-0	2.797-0	4.348-0	4.261-0	8.723-2	1.631-1	1.856-1	1.919-5		
3.345-5	2.764-0	2.799-0	4.345-0	4.261-0	8.411-2	1.573-1	1.790-1	1.869-5		
3.601-5	2.765-0	2.801-0	4.343-0	4.262-0	8.087-2	1.512-1	1.722-1	1.817-5		
3.866-5	2.767-0	2.802-0	4.340-0	4.262-0	7.710-2	1.460-1	1.664-1	1.773-5		
4.048-5	2.768-0	2.804-0	4.338-0	4.262-0	7.620-2	1.425-1	1.625-1	1.744-5		
4.234-5	2.769-0	2.805-0	4.337-0	4.262-0	7.487-2	1.400-1	1.597-1	1.724-5		
4.328-5	2.771-0	2.806-0	4.334-0	4.261-0	7.304-2	1.366-1	1.559-1	1.697-5		
4.519-5	2.772-0	2.808-0	4.332-0	4.261-0	7.119-2	1.331-1	1.520-1	1.670-5		
4.717-5	2.773-0	2.809-0	4.330-0	4.260-0	6.976-2	1.305-1	1.490-1	1.648-5		
4.918-5	2.775-0	2.811-0	4.328-0	4.260-0	6.800-2	1.272-1	1.453-1	1.622-5		
5.123-5	2.776-0	2.812-0	4.326-0	4.259-0	6.608-2	1.251-1	1.430-1	1.610-5		
5.332-5	2.777-0	2.813-0	4.324-0	4.258-0	6.553-2	1.225-1	1.402-1	1.596-5		
5.634-5	2.778-0	2.814-0	4.322-0	4.258-0	6.444-2	1.205-1	1.379-1	1.584-5		
5.763-5	2.779-0	2.815-0	4.321-0	4.257-0	6.332-2	1.184-1	1.356-1	1.572-5		
6.097-5	2.780-0	2.816-0	4.320-0	4.258-0	6.202-2	1.160-1	1.328-1	1.559-5		
6.325-5	2.780-0	2.816-0	4.320-0	4.259-0	6.100-2	1.141-1	1.306-1	1.549-5		
6.557-5	2.780-0	2.816-0	4.319-0	4.259-0	6.023-2	1.126-1	1.290-1	1.541-5		
6.674-5	2.780-0	2.816-0	4.319-0	4.260-0	5.917-2	1.106-1	1.267-1	1.530-5		
7.034-5	2.780-0	2.816-0	4.319-0	4.261-0	5.814-2	1.087-1	1.245-1	1.520-5		
7.155-5	2.780-0	2.816-0	4.319-0	4.262-0	5.713-2	1.068-1	1.224-1	1.511-5		
7.527-5	2.781-0	2.816-0	4.319-0	4.263-0	5.506-2	1.045-1	1.196-1	1.498-5		
7.780-5	2.781-0	2.817-0	4.319-0	4.264-0	5.508-2	1.030-1	1.180-1	1.491-5		
7.908-5	2.781-0	2.817-0	4.319-0	4.264-0	5.435-2	1.016-1	1.164-1	1.485-5		
8.167-5	2.781-0	2.817-0	4.319-0	4.265-0	5.356-2	1.002-1	1.147-1	1.480-5		
8.431-5	2.780-0	2.816-0	4.319-0	4.266-0	5.257-2	9.831-2	1.126-1	1.475-5		
8.834-5	2.780-0	2.816-0	4.319-0	4.268-0	5.157-2	9.644-2	1.105-1	1.469-5		

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ENDL 175 Group Neutron Constants

24-Cr-Nat

ATOMIC WEIGHT 51.9903 +1

DENSITY 7.1903 D GRAMS/CC

ENERGY MEV	MFP (CM)	CROSS SECTION (BARNs)					ENERGY DEPOSIT (MEV)	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN REMAINDER	GAM-PROD.	TOTAL LOCAL
9.10E-5	2.78E+0	2.81E+0	4.31E+0	4.26E+0	5.08E-2	9.50E-2	1.08E-1	1.46E-5
9.38E-5	2.78E+0	2.81E+0	4.32E+0	4.27E+0	5.00E-2	9.35E-2	1.07E-1	1.46E-5
9.66E-5	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.94E-2	9.24E-2	1.05E-1	1.45E-5
9.81E-5	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.87E-2	9.11E-2	1.04E-1	1.45E-5
1.02E-4	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.78E-2	8.94E-2	1.02E-1	1.46E-5
1.09E-4	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.71E-2	8.74E-2	1.00E-1	1.47E-5
1.17E-4	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.65E-2	8.53E-2	.6E-2	1.48E-5
1.25E-4	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.44E-2	8.31E-2	9.51E-2	1.50E-5
1.33E-4	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.33E-2	8.11E-2	9.28E-2	1.51E-5
1.40E-4	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.21E-2	7.88E-2	9.02E-2	1.52E-5
1.51E-4	2.78E+0	2.81E+0	4.32E+0	4.27E+0	4.07E-2	7.61E-2	8.72E-2	1.53E-5
1.60E-4	2.78E+0	2.81E+0	4.32E+0	4.28E+0	3.94E-2	7.37E-2	8.44E-2	1.54E-5
1.69E-4	2.78E+0	2.81E+0	4.32E+0	4.28E+0	3.80E-2	7.12E-2	8.15E-2	1.55E-5
1.79E-4	2.78E+0	2.81E+0	4.32E+0	4.28E+0	3.66E-2	6.86E-2	7.85E-2	1.56E-5
1.88E-4	2.78E+0	2.81E+0	4.32E+0	4.28E+0	3.52E-2	6.59E-2	7.55E-2	1.57E-5
1.98E-4	2.78E+0	2.81E+0	4.32E+0	4.28E+0	3.41E-2	6.39E-2	7.32E-2	1.59E-5
2.09E-4	2.78E+0	2.81E+0	4.31E+0	4.28E+0	3.23E-2	6.04E-2	6.92E-2	1.71E-5
2.74E-4	2.78E+0	2.81E+0	4.31E+0	4.28E+0	2.94E-2	5.49E-2	6.30E-2	1.90E-5
3.26E-4	2.78E+0	2.82E+0	4.31E+0	4.28E+0	2.67E-2	5.00E-2	5.74E-2	2.05E-5
3.81E-4	2.78E+0	2.82E+0	4.30E+0	4.28E+0	2.39E-2	4.48E-2	5.14E-2	2.28E-5
4.70E-4	2.78E+0	2.82E+0	4.30E+0	4.28E+0	2.25E-2	4.22E-2	4.85E-2	2.49E-5
4.99E-4	2.78E+0	2.82E+0	4.30E+0	4.28E+0	2.15E-2	4.02E-2	4.62E-2	2.66E-5
5.65E-4	2.78E+0	2.82E+0	4.30E+0	4.28E+0	2.03E-2	3.80E-2	4.37E-2	2.84E-5
6.04E-4	2.79E+0	2.82E+0	4.30E+0	4.28E+0	2.06E-2	3.85E-2	4.32E-2	3.00E-5
6.36E-4	2.79E+0	2.82E+0	4.30E+0	4.28E+0	2.02E-2	4.16E-2	4.78E-2	3.29E-5
7.15E-4	2.79E+0	2.82E+0	4.30E+0	4.27E+0	2.49E-2	4.67E-2	5.37E-2	3.80E-5
8.32E-4	2.79E+0	2.82E+0	4.30E+0	4.27E+0	2.41E-2	4.51E-2	5.19E-2	4.20E-5
9.17E-4	2.79E+0	2.82E+0	4.30E+0	4.27E+0	2.26E-2	4.23E-2	4.87E-2	4.62E-5
1.05E-3	2.79E+0	2.82E+0	4.30E+0	4.26E+0	3.63E-2	6.79E-2	7.81E-2	6.08E-5
1.30E-3	2.79E+0	2.82E+0	4.31E+0	4.25E+0	5.84E-2	1.09E-1	1.25E-1	8.41E-5
1.58E-3	2.79E+0	2.77E+0	4.38E+0	4.30E+0	8.09E-2	1.51E-1	1.70E-1	1.10E-4
1.88E-3	2.99E+0	2.62E+0	4.63E+0	4.57E+0	6.42E-2	1.20E-1	1.28E-1	1.14E-4
2.20E-3	2.29E+0	2.32E+0	5.24E+0	5.20E+0	4.47E-2	8.36E-2	7.89E-2	1.15E-4
2.56E-3	1.88E+0	1.91E+0	6.36E+0	6.32E+0	3.31E-2	6.23E-2	4.85E-2	1.20E-4
2.94E-3	1.43E+0	1.45E+0	8.37E+0	8.34E+0	3.00E-2	5.62E-2	3.33E-2	1.31E-4
3.34E-3	9.31E+0	9.43E+0	1.29E+1	1.28E+1	3.26E-2	6.10E-2	2.35E-2	1.44E-4
3.77E-3	5.83E+0	5.90E+0	1.05E+1	1.05E+1	3.71E-2	6.95E-2	1.68E-2	1.57E-4
4.23E-3	5.73E+0	5.81E+0	1.09E+1	1.08E+1	4.74E-2	8.07E-2	2.11E-2	2.00E-4
5.76E-3	6.88E+0	6.97E+0	1.74E+1	1.74E+1	4.26E-2	7.97E-2	2.88E-2	2.64E-4
7.52E-3	9.09E+0	9.21E+0	1.32E+1	1.31E+1	2.36E-2	4.43E-2	1.69E-2	3.40E-4
1.02E-2	2.21E+0	2.24E+0	5.42E+0	5.41E+0	1.26E-2	2.36E-2	2.20E-2	4.87E-4
1.51E-2	3.89E+0	3.94E+0	3.08E+1	3.07E+1	6.25E-3	1.17E-2	1.94E-2	7.08E-4
2.09E-2	4.04E+0	4.09E+0	2.96E+1	2.96E+1	3.56E-3	7.43E-3	1.32E-2	9.10E-4
2.64E-2	3.09E+0	3.13E+0	3.87E+0	3.87E+0	3.52E-3	6.60E-3	9.53E-3	1.13E-3
3.26E-2	3.51E+0	3.56E+0	3.41E+0	3.41E+0	3.50E-3	1.15E-2	1.08E-2	1.38E-3
3.95E-2	5.68E+0	5.75E+0	2.11E+0	2.11E+0	3.75E-3	1.44E-2	1.80E-2	1.65E-3
4.70E-2	1.25E+0	1.26E+0	9.55E+0	9.55E+0	7.93E-3	1.51E-2	9.63E-3	1.97E-3
5.76E-2	3.31E+0	3.42E+0	3.62E+0	3.62E+0	3.53E-3	1.59E-2	1.13E-2	2.37E-3
7.00E-2	5.79E+0	6.02E+0	2.07E+0	2.06E+0	3.26E-3	1.69E-2	1.74E-2	2.68E-3
8.32E-2	2.29E+0	2.40E+0	5.22E+0	5.21E+0	4.13E-3	1.79E-2	1.08E-2	3.49E-3
9.89E-2	1.78E+0	1.87E+0	6.72E+0	6.71E+0	3.96E-3	1.85E-2	9.45E-3	4.02E-3
1.30E-1	1.74E+0	1.85E+0	6.86E+0	6.87E+0	4.02E-3	1.83E-2	1.08E-2	4.46E-3
1.62E-1	3.37E+0	3.71E+0	3.56E+0	3.55E+0	3.81E-3	1.81E-2	1.66E-2	6.70E-3
2.07E-1	3.87E+0	4.42E+0	3.10E+0	3.09E+0	3.72E-3	1.80E-2	1.86E-2	7.55E-3
2.41E-1	4.02E+0	4.79E+0	2.98E+0	2.98E+0	3.65E-3	1.79E-2	1.95E-2	8.22E-3
2.71E-1	5.57E+0	6.90E+0	2.15E+0	2.15E+0	3.60E-3	1.77E-2	2.44E-2	8.93E-3
2.94E-1	4.15E+0	5.31E+0	2.88E+0	2.88E+0	3.60E-3	1.76E-2	2.21E-2	1.05E-2
3.34E-1	4.10E+0	4.61E+0	2.92E+0	2.92E+0	3.70E-3	1.73E-2	2.45E-2	1.23E-2
3.77E-1	4.14E+0	4.47E+0	2.91E+0	2.91E+0	3.72E-3	1.78E-2	2.61E-2	1.43E-2
4.23E-1	3.90E+0	4.34E+0	3.07E+0	3.07E+0	3.90E-3	1.71E-2	2.75E-2	1.57E-2
5.12E-1	4.27E+0	5.20E+0	2.81E+0	2.80E+0	4.06E-3	4.11E-2	3.26E-2	1.82E-2
6.32E-1	3.83E+0	4.81E+0	3.11E+0	3.11E+0	4.25E-3	5.04E-2	3.79E-2	2.25E-2

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ENDL 175 Group Neutron Constants

24-Cr-Nat

ATOMIC WEIGHT 5.1998+1			Density 7.1903+0 GRAMS/CC							
ENERGY MEV	MPF (CM)		CROSS SECTION (MABNS)						ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
7.527-1	3.601+0	3.807+0	3.334+0	3.302+0	4.470-3	2.775-2	1.240-1	4.467-2	2.709-2	
6.834-1	3.970+0	4.239+0	3.024+0	2.967+0	3.852-3	5.367-2	1.705-1	5.420-2	3.016-2	
1.025+0	4.380+0	5.42+0	2.741+0	2.643+0	3.084-3	9.462-2	2.452-1	7.416-2	3.659-2	
1.176+0	4.124+0	4.966+0	2.912+0	2.796+0	2.691-3	1.126-1	3.063-1	8.309-2	4.363-2	
1.338+0	4.505+0	5.241+0	2.666+0	2.498+0	2.433-3	1.649-1	8.004-1	1.120-1	4.312-2	
1.511+0	4.285+0	5.119+0	2.802+0	2.340+0	2.211-3	4.601-1	1.222+0	2.567-1	4.336-2	
1.694+0	3.893+0	5.098+0	3.085+0	2.462+0	2.045-3	6.213-1	1.626+0	3.134-1	4.685-2	
1.867+0	2.976+0	4.056+0	4.034+0	3.294+0	2.005-3	7.386-1	2.016+0	2.951-1	5.030-2	
2.091+0	3.280+0	4.523+0	3.662+0	2.809+0	1.852-3	8.505-1	2.149+0	3.675-1	5.392-2	
2.305+0	3.199+0	4.551+0	3.754+0	2.847+0	1.858-3	9.047-1	2.230+0	3.872-1	5.747-2	
2.530+0	3.293+0	4.846+0	3.646+0	2.722+0	1.820-3	9.223-1	2.311+0	4.151-1	6.042-2	
2.741+0	3.307+0	5.119+0	3.632+0	2.695+0	1.710-3	9.304-1	2.400+0	4.485-1	6.264-2	
3.011+0	3.327+0	5.311+0	3.609+0	2.643+0	1.631-3	9.648-1	2.525+0	5.627-1	6.242-2	
3.267+0	3.190+0	5.261+0	3.765+0	2.676+0	1.584-3	1.088+0	2.675+0	7.702-1	5.822-2	
3.533+0	3.177+0	5.395+0	3.780+0	2.693+0	1.551-3	1.185+0	2.831+0	9.017-1	5.965-2	
3.811+0	3.182+0	5.610+0	3.773+0	2.527+0	1.500-3	1.245+0	2.979+0	1.019+0	5.867-2	
4.059+0	3.189+0	5.808+0	3.765+0	2.491+0	1.546-3	1.272+0	3.032+0	1.126+0	6.095-2	
4.396+0	3.208+0	5.923+0	3.743+0	2.463+0	1.610-3	1.278+0	3.050+0	1.230+0	5.383-2	
4.704+0	2.711+0	6.172+0	3.671+0	2.428+0	1.670-3	1.241+0	3.067+0	1.336+0	6.612-2	
4.991+0	3.325+0	6.386+0	3.612+0	2.393+0	2.387-3	1.217+0	3.119+0	1.433+0	6.888-2	
5.353+0	3.382+0	6.574+0	3.572+0	2.359+0	3.721-3	1.210+0	3.204+0	1.516+0	7.172-2	
5.658+0	3.406+0	6.753+0	3.526+0	2.318+0	5.101-3	1.203+0	3.291+0	1.637+0	7.458-2	
6.042+0	3.453+0	6.961+0	3.478+0	2.275+0	6.518-3	1.196+0	3.367+0	1.754+0	7.837-2	
6.367+0	3.497+0	7.067+0	3.434+0	2.237+0	8.225-3	1.189+0	3.430+0	1.863+0	8.288-2	
6.737+0	3.537+0	7.175+0	3.395+0	2.203+0	1.132-2	1.181+0	3.503+0	1.965+0	8.865-2	
7.156+0	3.598+0	7.310+0	3.338+0	2.151+0	1.427-2	1.173+0	3.580+0	2.123+0	9.460-2	
7.548+0	3.660+0	7.439+0	3.281+0	2.098+0	1.782-2	1.165+0	3.654+0	2.259+0	1.009+0	
7.910+0	3.725+0	7.561+0	3.224+0	2.044+0	2.257-2	1.158+0	3.736+0	2.405+0	1.088+0	
8.322+0	3.799+0	7.647+0	3.161+0	1.982+0	2.984-2	1.149+0	3.847+0	2.575+0	1.203+0	
8.787+0	3.873+0	7.712+0	3.100+0	1.921+0	3.974-2	1.140+0	3.957+0	2.734+0	1.343+0	
9.177+0	3.974+0	7.811+0	3.022+0	1.846+0	5.255-2	1.123+0	4.076+0	2.902+0	1.521+0	
9.665+0	4.091+0	7.918+0	2.936+0	1.763+0	6.802-2	1.105+0	4.206+0	3.095+0	1.748+0	
1.012+1	4.203+0	7.990+0	2.857+0	1.682+0	8.267-2	1.093+0	4.355+0	3.328+0	1.998+0	
1.058+1	4.316+0	8.043+0	2.782+0	1.603+0	9.536-2	1.083+0	4.531+0	3.577+0	2.253+0	
1.101+1	4.450+0	8.120+0	2.690+0	1.519+0	1.060-1	1.073+0	4.699+0	3.855+0	2.521+0	
1.155+1	4.559+0	8.189+0	2.634+0	1.457+0	1.139-1	1.063+0	4.863+0	4.112+0	2.769+0	
1.199+1	4.640+0	8.252+0	2.588+0	1.416+0	1.188-1	1.053+0	4.932+0	4.330+0	2.980+0	
1.250+1	4.738+0	8.305+0	2.534+0	1.370+0	1.269-1	1.044+0	5.013+0	4.354+0	3.193+0	
1.307+1	4.848+0	8.384+0	2.477+0	1.325+0	1.210-1	1.031+0	5.101+0	4.710+0	3.387+0	
1.354+1	4.942+0	8.466+0	2.430+0	1.281+0	1.196-1	1.019+0	5.244+0	4.293+0	3.571+0	
1.386+1	5.015+0	8.532+0	2.395+0	1.266+0	1.177-1	1.011+0	5.374+0	4.027+0	3.608+0	
1.413+1	5.071+0	8.559+0	2.368+0	1.243+0	1.156-1	1.010+0	5.403+0	4.001+0	3.682+0	
1.441+1	5.127+0	8.584+0	2.342+0	1.219+0	1.132-1	1.010+0	5.455+0	3.993+0	3.752+0	
1.468+1	5.203+0	8.625+0	2.308+0	1.188+0	1.090-1	1.011+0	5.493+0	4.011+0	3.832+0	
1.519+1	5.216+0	8.662+0	2.302+0	1.172+0	1.095-1	1.024+0	5.280+0	4.105+0	3.931+0	
1.575+1	5.213+0	8.506+0	2.304+0	1.163+0	1.094-1	1.038+0	4.373+0	4.229+0	4.034+0	
1.633+1	5.244+0	8.541+0	2.290+0	1.154+0	9.921-2	1.037+0	4.480+0	4.300+0	4.140+0	
1.692+1	5.280+0	8.589+0	2.274+0	1.144+0	9.600-2	1.034+0	4.591+0	4.557+0	4.246+0	
1.752+1	5.317+0	8.638+0	2.258+0	1.135+0	9.272-2	1.031+0	4.711+0	4.725+0	4.349+0	
1.813+1	5.356+0	8.689+0	2.242+0	1.125+0	8.942-2	1.028+0	4.825+0	4.899+0	4.450+0	
1.875+1	5.415+0	8.768+0	2.217+0	1.110+0	8.436-2	1.023+0	5.033+0	5.159+0	4.593+0	
2.000+1										
RESONANCE INTEGRALS			8.710+1	8.280+1	1.578+0	2.720+0	1.153+1			
MAXWELLIAN AVERAGES			6.863+0	4.100+0	2.763+0	0	5.167+0			
1/E AVERAGES			4.976+0	4.730+0	9.016-2	1.554+1	6.590+1			
FISSION AVERAGES			3.373+0	2.842+0	3.433-3	5.276-1	1.393+0			
FUSION AVERAGES			2.391+0	1.260+0	1.168-1	1.014+0	4.395+0			

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 54.938 + 1

DENSITY 7.430 + 0 GRAMS/CC

ENERGY MEV	TOTAL	TRANSPORT	TOTAL	CROSS SECTION (BARNS)			ENERGY DEPOSIT (MEV)		
				ELASTIC	ABSORPTN	REMAINDER	TOTAL	LOCAL	
1.307-9	2.525-1	2.528-1	1.866-1	3.373-0	4.524-1	7.556-1	6.766-0	4.717-4	
1.227-9	5.291-1	5.300-1	2.320-1	2.979-0	2.023-1	3.378-1	6.337-0	4.418-4	
2.091-8	8.087-1	8.104-1	1.518-1	2.529-0	1.265-1	2.113-1	6.059-0	4.225-4	
3.267-7	9.442-1	9.444-1	1.303-1	2.500-0	1.053-1	1.759-1	5.875-0	4.037-4	
4.704-6	1.145-0	1.149-0	1.072-0	2.500-0	8.219-0	1.373-1	5.574-0	3.887-4	
6.332-6	1.433-0	1.408-0	8.751-0	2.494-0	6.256-0	1.045-1	5.198-0	3.625-4	
1.307-7	1.602-0	1.606-0	7.674-0	2.467-0	5.207-0	8.696-0	4.933-0	3.441-4	
1.892-7	1.803-0	1.817-0	6.786-0	2.432-0	4.353-0	7.270-0	4.664-0	3.254-4	
2.561-7	2.079-0	2.090-0	5.905-0	2.391-0	3.513-0	5.867-0	4.326-0	3.018-4	
3.345-7	2.266-0	2.298-0	5.371-0	2.345-0	3.026-0	5.053-0	4.096-0	2.858-4	
4.234-7	2.384-0	2.397-0	5.150-0	2.296-0	2.895-0	4.767-0	4.029-0	2.812-4	
5.123-7	2.577-0	2.591-0	4.765-0	2.204-0	2.581-0	4.276-0	3.907-0	2.728-4	
7.527-7	3.021-0	3.039-0	4.065-0	2.018-0	2.047-0	3.418-0	3.560-0	2.557-4	
1.176-6	3.452-0	3.471-0	3.559-0	1.794-0	1.765-0	2.948-0	3.606-0	2.521-4	
1.511-6	3.707-0	3.731-0	3.312-0	1.700-0	1.612-0	2.692-0	3.538-0	2.476-4	
2.091-6	3.896-0	3.921-0	3.152-0	1.700-0	1.452-0	2.425-0	3.349-0	2.346-4	
2.741-6	4.142-0	4.171-0	2.964-0	1.700-0	1.264-0	2.111-0	3.101-0	2.176-4	
3.433-6	4.452-0	4.489-0	2.750-0	1.700-0	1.050-0	1.754-0	2.776-0	1.952-4	
4.204-6	4.812-0	4.851-0	2.663-0	1.700-0	9.632-1	1.609-0	2.629-0	1.853-4	
5.058-6	5.227-0	5.266-0	2.597-0	1.700-0	8.972-1	1.498-0	2.511-0	1.773-4	
6.037-6	5.692-0	5.731-0	2.511-0	1.700-0	8.106-1	1.354-0	2.347-0	1.662-4	
8.322-6	6.080-0	6.124-0	2.417-0	1.700-0	7.169-1	1.197-0	2.156-0	1.532-4	
9.670-6	6.202-0	6.248-0	2.360-0	1.711-0	6.494-1	1.084-0	2.000-0	1.425-4	
1.101-5	5.139-0	5.185-0	2.369-0	1.761-0	6.279-1	1.049-0	1.911-0	1.366-4	
1.397-5	5.065-0	5.122-0	2.424-0	1.816-0	6.180-1	1.015-0	1.823-0	1.309-4	
1.668-5	5.010-0	5.057-0	2.451-0	1.857-0	5.932-1	9.905-1	1.760-0	1.267-4	
1.961-5	4.954-0	5.001-0	2.479-0	1.901-0	5.774-1	9.643-1	1.694-0	1.224-4	
1.758-5	4.897-0	4.944-0	2.507-0	1.946-0	5.612-1	9.371-1	1.627-0	1.180-4	
1.882-5	4.841-0	4.888-0	2.537-0	1.992-0	5.440-1	9.085-1	1.559-0	1.134-4	
2.075-5	4.789-0	4.836-0	2.564-0	2.041-0	5.226-1	8.728-1	1.482-0	1.083-4	
2.277-5	4.750-0	4.797-0	2.595-0	2.081-0	5.041-1	8.418-1	1.418-0	1.040-4	
2.417-5	4.717-0	4.765-0	2.603-0	2.114-0	4.887-1	8.161-1	1.365-0	1.005-4	
2.561-5	4.684-0	4.732-0	2.621-0	2.148-0	4.728-1	7.896-1	1.311-0	9.687-5	
2.710-5	4.651-0	4.699-0	2.640-0	2.183-0	4.565-1	7.624-1	1.257-0	9.320-5	
2.862-5	4.626-0	4.673-0	2.654-0	2.210-0	4.440-1	7.415-1	1.216-0	9.042-5	
2.940-5	4.600-0	4.648-0	2.669-0	2.238-0	4.312-1	7.201-1	1.174-0	8.758-5	
3.099-5	4.567-0	4.605-0	2.694-0	2.265-0	4.093-1	6.935-1	1.104-0	8.476-5	
3.345-5	4.504-0	4.552-0	2.726-0	2.344-0	3.821-1	6.381-1	1.019-0	7.689-5	
3.601-5	4.451-0	4.499-0	2.758-0	2.404-0	3.539-1	5.910-1	9.327-1	7.089-5	
3.866-5	4.406-0	4.454-0	2.787-0	2.457-0	3.302-1	5.514-1	8.614-1	6.590-5	
4.046-5	4.352-0	4.400-0	2.821-0	2.500-0	3.214-1	5.367-1	8.283-1	6.368-5	
4.234-5	4.308-0	4.355-0	2.850-0	2.532-0	3.178-1	5.308-1	8.107-1	6.256-5	
4.329-5	4.248-0	4.295-0	2.890-0	2.577-0	3.129-1	5.225-1	7.871-1	6.105-5	
4.619-5	4.180-0	4.235-0	2.930-0	2.623-0	3.079-1	5.142-1	7.633-1	5.956-5	
4.717-5	4.146-0	4.192-0	2.962-0	2.657-0	3.041-1	5.079-1	7.465-1	5.844-5	
4.918-5	4.084-0	4.130-0	3.005-0	2.707-0	2.989-1	4.992-1	7.229-1	5.691-5	
5.123-5	4.010-0	4.055-0	3.062-0	2.768-0	2.936-1	4.904-1	6.972-1	5.521-5	
5.332-5	3.917-0	3.961-0	3.135-0	2.848-0	2.868-1	4.790-1	6.653-1	5.309-5	
5.654-5	3.844-0	3.888-0	3.194-0	2.912-0	2.813-1	4.699-1	6.404-1	5.143-5	
5.763-5	3.774-0	3.817-0	3.253-0	2.978-0	2.757-1	4.604-1	6.161-1	4.981-5	
5.097-5	3.703-0	3.751-0	3.311-0	3.042-0	2.695-1	4.494-1	5.896-1	4.808-5	
6.325-5	3.655-0	3.705-0	3.351-0	3.098-0	2.626-1	4.386-1	5.699-1	4.679-5	
6.557-5	3.631-0	3.673-0	3.381-0	3.123-0	2.592-1	4.311-1	5.551-1	4.582-5	
6.674-5	3.587-0	3.628-0	3.423-0	3.171-0	2.521-1	4.210-1	5.354-1	4.453-5	
7.034-5	3.544-0	3.584-0	3.465-0	3.219-0	2.459-1	4.107-1	5.160-1	4.326-5	
7.155-5	3.500-0	3.541-0	3.508-0	3.268-0	2.396-1	4.002-1	4.966-1	4.197-5	
7.527-5	3.456-0	3.496-0	3.563-0	3.311-0	2.324-1	3.881-1	4.742-1	4.049-5	
7.760-5	3.412-0	3.452-0	3.598-0	3.369-0	2.296-1	3.835-1	4.640-1	3.958-5	
7.908-5	3.371-0	3.410-0	3.643-0	3.416-0	2.270-1	3.791-1	4.530-1	3.917-5	
8.167-5	3.333-0	3.332-0	3.690-0	3.465-0	2.234-1	3.731-1	4.356-1	3.802-5	
8.431-5	3.197-0	3.235-0	3.640-0	3.621-0	2.188-1	3.654-1	4.143-1	3.659-5	
8.834-5	3.105-0	3.142-0	3.954-0	3.740-0	2.142-1	3.576-1	3.938-1	3.523-5	

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 54.93801		DENSITY 7.43000 GRAMS/CC									
ENERGY MEV	TOTAL (CHI)		CPGSS SECTION (BARNS)							ENERGY DEPOSITION (MEV)	
	FREE TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD	TOTAL	LOCAL			
9.108-5	3.034-0	3.070-0	4.047-0	3.836-0	2.104-1	3.513-1	3.779-1	3.417-5			
9.386-5	2.965-0	3.000-0	4.141-0	3.934-0	2.065-1	3.449-1	3.620-1	3.315-5			
9.668-5	2.915-0	2.949-0	4.212-0	4.009-0	2.036-1	3.400-1	3.514-1	3.240-5			
9.811-5	2.836-0	2.870-0	4.329-0	4.128-0	2.006-1	3.350-1	3.368-1	3.143-5			
1.025-4	2.622-0	2.653-0	4.684-0	4.483-0	2.000-1	3.340-1	3.105-1	2.970-5			
1.099-4	2.383-0	2.411-0	5.153-0	4.953-0	2.000-1	3.340-1	2.822-1	2.788-5			
1.176-4	2.177-0	2.203-0	5.639-0	5.439-0	2.000-1	3.340-1	2.579-1	2.637-5			
1.256-4	1.999-0	2.023-0	6.141-0	5.941-0	2.000-1	3.340-1	2.360-1	2.510-5			
1.339-4	1.859-0	1.881-0	6.606-0	6.406-0	2.000-1	3.340-1	2.201-1	2.414-5			
1.406-4	1.718-0	1.739-0	7.146-0	6.946-0	2.000-1	3.340-1	2.035-1	2.322-5			
1.511-4	1.488-0	1.506-0	8.254-0	8.054-0	2.000-1	3.340-1	1.762-1	2.136-5			
1.601-4	1.287-0	1.303-0	9.657-0	9.457-0	2.000-1	3.340-1	1.506-1	1.956-5			
1.694-4	1.106-0	1.120-0	1.110-1	1.090-1	2.000-1	3.340-1	1.310-1	1.827-5			
1.789-4	9.577-1	9.593-1	1.282-1	1.262-1	2.000-1	3.340-1	1.134-1	1.713-5			
1.887-4	8.212-1	8.312-1	1.495-1	1.475-1	2.000-1	3.340-1	9.725-2	1.610-5			
1.989-4	6.975-1	7.061-1	1.763-1	1.740-1	2.000-1	3.340-1	8.261-2	1.518-5			
2.091-4	1.929-1	1.949-1	1.644-1	1.624-1	2.000-1	3.340-1	2.257-2	2.118-5			
2.741-4	2.352-2	2.391-2	5.199-2	5.197-2	2.000-1	3.340-1	2.808-3	1.130-5			
3.267-4	8.383-3	8.487-3	1.465-3	1.465-3	2.000-1	3.340-1	1.005-3	1.230-5			
3.811-4	1.544-1	1.563-1	1.953-1	1.933-1	2.000-1	3.340-1	1.830-2	1.690-5			
4.704-4	3.951-1	4.200-1	3.108-1	3.088-1	2.000-1	3.340-1	4.581-2	2.335-5			
4.991-4	5.494-1	5.562-1	2.235-1	2.215-1	2.000-1	3.340-1	6.509-2	2.783-5			
5.659-4	6.833-1	6.917-1	1.797-1	1.777-1	2.000-1	3.340-1	8.094-2	3.251-5			
6.042-4	7.073-1	7.160-1	1.775-1	1.716-1	2.000-1	3.340-1	8.379-2	3.457-5			
6.367-4	7.472-1	7.564-1	1.731-1	1.623-1	2.000-1	3.340-1	8.852-2	3.788-5			
7.156-4	7.958-1	8.055-1	1.543-1	1.523-1	2.000-1	3.340-1	9.427-2	4.347-5			
8.322-4	7.267-1	7.356-1	1.690-1	1.670-1	2.000-1	3.340-1	8.610-2	4.683-5			
9.177-4	2.600-1	2.835-1	4.384-1	4.364-1	1.998-1	3.336-1	3.316-2	4.235-5			
1.058-3	1.130-1	1.144-1	1.087-2	1.085-2	1.963-1	3.280-1	1.317-2	4.194-5			
1.307-3	7.739-1	7.833-1	1.587-1	1.568-1	1.911-1	3.192-1	8.764-2	7.446-5			
1.581-3	2.679-1	2.712-1	4.583-1	4.565-1	1.854-1	3.096-1	2.947-2	7.091-5			
1.882-3	5.807-2	5.879-2	2.114-2	2.113-2	1.798-1	3.033-1	6.257-3	7.605-5			
2.208-3	2.561-2	2.592-2	4.795-2	4.793-2	1.762-1	2.943-1	2.756-3	8.634-5			
2.561-3	5.751-2	5.823-2	2.135-2	2.133-2	1.725-1	2.882-1	5.973-3	9.903-5			
2.940-3	5.985-2	6.059-2	2.052-2	2.050-2	1.686-1	2.816-1	6.493-3	1.102-4			
3.345-3	4.245-1	4.298-1	2.892-1	2.876-1	1.644-1	2.747-1	4.147-2	1.474-4			
3.777-3	7.092-1	7.179-1	1.731-1	1.715-1	1.601-1	2.676-1	6.743-2	1.809-4			
4.234-3	1.446-0	1.464-0	8.990-0	8.337-0	1.533-1	2.547-1	1.316-1	2.671-4			
5.763-3	2.688-1	2.722-1	4.567-1	4.553-1	1.423-1	2.425-1	2.292-2	2.702-4			
7.527-3	2.810-1	2.845-1	4.370-1	4.357-1	1.238-1	2.070-1	2.094-2	3.377-4			
1.025-2	1.931-0	1.955-0	6.358-0	6.264-0	9.395-2	1.572-1	1.080-1	6.055-4			
1.511-2	1.265-0	1.280-0	9.707-0	9.636-0	7.113-2	1.191-1	5.409-2	8.188-4			
2.091-2	6.507-1	6.588-1	1.887-1	1.881-1	6.168-2	1.033-1	2.464-2	8.760-4			
2.646-2	1.357-0	1.373-0	9.051-0	8.994-0	5.645-2	9.465-2	4.650-2	1.163-3			
3.267-2	5.079-1	5.142-1	2.417-1	2.412-1	5.112-2	8.579-2	1.672-2	1.347-3			
3.953-2	1.316-0	1.333-0	9.327-0	9.285-0	4.240-2	7.123-2	3.475-2	1.697-3			
4.704-2	2.692-0	2.725-0	4.562-0	4.531-0	3.074-2	5.171-2	5.120-2	2.224-3			
5.761-2	1.335-0	1.352-0	9.195-0	9.169-0	2.616-2	4.808-2	2.308-2	2.977-3			
7.002-2	1.850-0	1.883-0	6.600-0	6.578-0	2.268-2	3.427-2	2.791-2	2.927-3			
8.322-2	2.240-0	2.267-0	5.482-0	5.462-0	1.985-2	3.356-2	2.983-2	3.498-3			
9.891-2	1.551-0	1.570-0	7.915-0	7.898-0	1.619-2	2.747-2	1.909-2	4.223-3			
1.307-1	1.560-0	2.665-0	4.796-0	4.763-0	1.291-2	2.1991-2	9.013-2	5.572-3			
1.820-1	2.434-0	2.598-0	5.044-0	4.946-0	1.039-2	8.832-2	1.853-1	2.432-2	6.822-3		
2.075-1	2.440-0	2.625-0	4.562-0	4.498-0	9.246-2	3.1246-1	2.607-1	2.465-2	7.731-3		
2.417-1	2.927-0	3.168-0	4.194-0	4.029-0	8.340-3	3.1563-1	3.414-1	8.763-3			
2.710-1	2.930-0	3.192-0	4.190-0	4.000-0	7.655-3	4.080-1	2.890-2	9.533-3			
2.940-1	2.909-0	3.185-0	4.221-0	4.000-0	6.991-3	2.143-1	4.702-1	2.949-2	1.043-2		
3.345-1	2.881-0	3.184-0	4.262-0	4.000-0	6.359-3	2.561-1	5.241-1	3.061-2	1.157-2		
3.777-1	2.851-0	3.182-0	4.306-0	4.000-0	5.722-3	3.005-1	5.744-1	3.180-2	1.276-2		
4.234-1	2.814-0	3.168-0	4.369-0	3.996-0	5.024-3	3.678-1	5.948-1	3.591-2	1.449-2		
5.123-1	2.968-0	3.410-0	4.137-0	3.662-0	4.702-3	4.702-1	6.179-1	3.883-2	1.692-2		
6.325-1	3.363-0	3.959-0	3.651-0	3.101-0	3.668-3	5.463-1	6.431-1	4.498-2	1.950-2		

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25-Mn-55

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ENDL 175 Group Neutron Constants

25-Mn-55

ATOMIC WEIGHT 54.938 + 1		DENSITY 7.4300 + 0 GRAMS/CC										
ENERGY		MF (CM)		CROSS SECTION (BARNs)							ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPRT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.			TOTAL	LOCAL
527	1	3.806+ 0	4.572+ 0	3.226+ 0	2.613+ 0	3.325+ 3	6.090+ 1	6.540+ 1	5.154+ 2	2.215+ 2		
534	1	3.824+ 0	4.761+ 0	3.129+ 0	2.448+ 0	3.009+ 3	6.780+ 1	6.708+ 1	5.639+ 2	2.517+ 2		
575	1	3.854+ 0	4.675+ 0	3.193+ 0	2.390+ 0	2.760+ 3	6.003+ 1	6.188+ 1	5.075+ 2	2.821+ 2		
1176	0	3.727+ 0	4.546+ 0	3.295+ 0	2.374+ 0	2.540+ 3	3.179+ 1	9.757+ 1	1.187+ 1	3.137+ 2		
1338	0	3.682+ 0	4.526+ 0	3.335+ 0	2.358+ 0	2.306+ 3	9.748+ 1	1.204+ 1	1.494+ 1	3.475+ 2		
1511	0	3.630+ 0	4.496+ 0	3.383+ 0	2.340+ 0	2.118+ 3	1.041+ 0	1.374+ 0	2.335+ 1	3.813+ 2		
1694	0	3.570+ 0	4.454+ 0	3.439+ 0	2.321+ 0	1.968+ 3	1.116+ 0	1.563+ 0	3.932+ 1	4.156+ 2		
1887	0	3.515+ 0	4.418+ 0	3.493+ 0	2.301+ 0	1.817+ 3	1.191+ 0	1.888+ 0	6.186+ 1	4.514+ 2		
2191	0	3.456+ 0	4.422+ 0	3.512+ 0	2.280+ 0	1.721+ 3	1.230+ 0	2.134+ 0	7.143+ 1	4.868+ 2		
2305	0	3.485+ 0	4.500+ 0	3.523+ 0	2.258+ 0	1.633+ 3	1.263+ 0	2.301+ 0	7.838+ 1	5.182+ 2		
2530	0	3.464+ 0	4.574+ 0	3.544+ 0	2.247+ 0	1.546+ 3	1.295+ 0	2.466+ 0	8.475+ 1	5.454+ 2		
2741	0	3.434+ 0	4.629+ 0	3.575+ 0	2.242+ 0	1.450+ 3	1.331+ 0	2.649+ 0	9.143+ 1	5.723+ 2		
3011	0	3.408+ 0	4.724+ 0	3.602+ 0	2.237+ 0	1.372+ 3	1.364+ 0	2.849+ 0	9.806+ 1	5.993+ 2		
3267	0	3.389+ 0	4.827+ 0	3.623+ 0	2.232+ 0	1.320+ 3	1.390+ 0	3.047+ 0	1.040+ 0	6.204+ 2		
3534	0	3.368+ 0	4.938+ 0	3.645+ 0	2.227+ 0	1.266+ 3	1.417+ 0	3.254+ 0	1.037+ 0	6.384+ 2		
3811	0	3.349+ 0	5.057+ 0	3.666+ 0	2.221+ 0	1.212+ 3	1.444+ 0	3.451+ 0	1.150+ 0	6.591+ 2		
4069	0	3.326+ 0	5.162+ 0	3.690+ 0	2.215+ 0	1.154+ 3	1.473+ 0	3.532+ 0	1.238+ 0	6.867+ 2		
4366	0	3.305+ 0	5.310+ 0	3.715+ 0	2.209+ 0	1.090+ 3	1.505+ 0	3.572+ 0	1.346+ 0	6.750+ 2		
4694	0	3.284+ 0	5.457+ 0	3.735+ 0	2.203+ 0	1.030+ 3	1.535+ 0	3.609+ 0	1.448+ 0	6.784+ 2		
5001	0	3.276+ 0	5.638+ 0	3.748+ 0	2.200+ 0	2.185+ 3	1.546+ 0	3.649+ 0	1.549+ 0	6.955+ 2		
5353	0	3.281+ 0	5.750+ 0	3.742+ 0	2.200+ 0	4.509+ 3	1.537+ 0	3.691+ 0	1.644+ 0	7.281+ 2		
5699	0	3.297+ 0	5.848+ 0	3.735+ 0	2.200+ 0	7.060+ 3	1.529+ 0	3.751+ 0	1.742+ 0	7.601+ 2		
6042	0	3.329+ 0	6.000+ 0	3.688+ 0	2.159+ 0	9.203+ 3	1.520+ 0	3.758+ 0	1.861+ 0	7.953+ 2		
6367	0	3.399+ 0	6.160+ 0	3.612+ 0	2.090+ 0	1.093+ 2	1.511+ 0	3.766+ 0	1.995+ 0	8.293+ 2		
6737	0	3.481+ 0	6.344+ 0	3.528+ 0	2.014+ 0	1.289+ 2	1.501+ 0	3.776+ 0	2.153+ 0	8.715+ 2		
7156	0	3.541+ 0	6.493+ 0	3.467+ 0	1.965+ 0	1.492+ 2	1.488+ 0	3.786+ 0	2.309+ 0	9.326+ 2		
7548	0	3.592+ 0	6.559+ 0	3.418+ 0	1.927+ 0	1.680+ 2	1.474+ 0	3.796+ 0	2.454+ 0	9.952+ 2		
7910	0	3.644+ 0	6.624+ 0	3.369+ 0	1.888+ 0	1.968+ 2	1.461+ 0	3.802+ 0	2.605+ 0	1.060+ 1		
8322	0	3.704+ 0	6.692+ 0	3.315+ 0	1.845+ 0	2.509+ 2	1.445+ 0	3.803+ 0	2.784+ 0	1.161+ 1		
8677	0	3.763+ 0	6.759+ 0	3.263+ 0	1.802+ 0	3.050+ 2	1.430+ 0	3.802+ 0	2.961+ 0	1.260+ 1		
9177	0	3.824+ 0	6.823+ 0	3.211+ 0	1.758+ 0	3.765+ 2	1.415+ 0	3.802+ 0	3.151+ 0	1.381+ 1		
9665	0	3.893+ 0	6.894+ 0	3.154+ 0	1.710+ 0	4.540+ 2	1.399+ 0	3.802+ 0	3.359+ 0	1.521+ 1		
1012	1	3.986+ 0	6.995+ 0	3.080+ 0	1.647+ 0	5.138+ 2	1.382+ 0	3.802+ 0	3.545+ 0	1.681+ 1		
1058	1	4.097+ 0	7.105+ 0	2.987+ 0	1.580+ 0	5.657+ 2	1.350+ 0	3.802+ 0	3.623+ 0	1.805+ 1		
1101	1	4.213+ 0	7.209+ 0	2.915+ 0	1.508+ 0	6.218+ 2	1.344+ 0	3.798+ 0	3.544+ 0	1.972+ 1		
1155	1	4.328+ 0	7.243+ 0	2.837+ 0	1.434+ 0	6.790+ 2	1.335+ 0	3.790+ 0	3.401+ 0	2.156+ 1		
1199	1	4.416+ 0	7.380+ 0	2.780+ 0	1.388+ 0	7.242+ 2	1.320+ 0	3.782+ 0	3.219+ 0	2.324+ 1		
1250	1	4.486+ 0	7.487+ 0	2.736+ 0	1.361+ 0	7.645+ 2	1.299+ 0	3.773+ 0	2.961+ 0	2.494+ 1		
1307	1	4.554+ 0	7.581+ 0	2.696+ 0	1.335+ 0	8.035+ 2	1.281+ 0	3.764+ 0	2.783+ 0	2.665+ 1		
1354	1	4.603+ 0	7.646+ 0	2.667+ 0	1.315+ 0	8.333+ 2	1.269+ 0	3.758+ 0	2.697+ 0	2.801+ 1		
1386	1	4.641+ 0	7.696+ 0	2.645+ 0	1.300+ 0	8.525+ 2	1.260+ 0	3.751+ 0	2.604+ 0	2.900+ 1		
1433	1	4.680+ 0	7.752+ 0	2.623+ 0	1.286+ 0	8.511+ 2	1.252+ 0	3.732+ 0	2.617+ 0	2.970+ 1		
1441	1	4.720+ 0	7.810+ 0	2.601+ 0	1.273+ 0	8.465+ 2	1.244+ 0	3.712+ 0	2.598+ 0	3.036+ 1		
1484	1	4.775+ 0	7.884+ 0	2.571+ 0	1.254+ 0	8.392+ 2	1.233+ 0	3.683+ 0	2.579+ 0	3.129+ 1		
1519	1	4.810+ 0	7.992+ 0	2.553+ 0	1.236+ 0	8.216+ 2	1.235+ 0	3.643+ 0	2.621+ 0	3.240+ 1		
1575	1	4.850+ 0	7.917+ 0	2.531+ 0	1.219+ 0	8.004+ 2	1.233+ 0	3.600+ 0	2.681+ 0	3.353+ 1		
1633	1	4.961+ 0	8.119+ 0	2.475+ 0	1.201+ 0	7.700+ 2	1.196+ 0	3.556+ 0	2.707+ 0	3.472+ 1		
1692	1	5.068+ 0	8.303+ 0	2.423+ 0	1.183+ 0	7.571+ 2	1.184+ 0	3.511+ 0	2.766+ 0	3.591+ 1		
1752	1	5.150+ 0	8.413+ 0	2.381+ 0	1.165+ 0	7.348+ 2	1.145+ 0	3.466+ 0	2.912+ 0	3.708+ 1		
1813	1	5.222+ 0	8.494+ 0	2.351+ 0	1.147+ 0	7.122+ 2	1.133+ 0	3.420+ 0	3.106+ 0	3.822+ 1		
1875	1	5.325+ 0	8.616+ 0	2.306+ 0	1.119+ 0	6.778+ 2	1.119+ 0	3.350+ 0	3.417+ 0	3.999+ 1		
2000	1											
RESONANCE INTEGRALS				5.651+ 2	6.540+ 2	6.601+ 0	4.433+ 0	2.041+ 1				
MAXWELLIAN AVERAGES				1.452+ 1	2.606+ 0	1.192+ 1		1.990+ 1				
1/E AVERAGES				3.799+ 1	3.736+ 1	3.771+ 1	2.533+ 1	1.166+ 0				
FISSION AVERAGES				3.732+ 0	2.758+ 0	4.035+ 3	9.697+ 1	1.721+ 0				
FUSION AVERAGES				2.539+ 0	1.297+ 0	8.425+ 2	1.258+ 0	3.740+ 0

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ENDL 175 Group Neutron Constants

26-Fe-Nat

ATOMIC WEIGHT 5.5847* 1		DENSITY 7.8700* 0 GRAMS/CC									
ENERGY		MFP (CM)		CROSS SECTION (BARNS)						ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD		TOTAL	LOCAL
1.307- 9	6.519- 1	6.566- 1	1.807- 1	1.064+ 1	7.434+ 0	1.227- 1	3.227+ 0	2.389- 4			
5.227- 9	8.149- 1	8.222- 1	1.446+ 1	1.074+ 1	3.717+ 0	6.132- 0	2.016+ 0	1.493- 4			
2.091- 8	8.869- 1	8.957- 1	1.329+ 1	1.080+ 1	2.404+ 0	4.099- 0	1.467+ 0	1.086- 4			
3.267- 8	9.164- 1	9.258- 1	1.266+ 1	1.083+ 1	2.029+ 0	3.348- 0	1.238+ 0	9.166- 5			
9.704- 8	9.492- 1	9.593- 1	1.241+ 1	1.082+ 1	1.554+ 0	2.630- 0	1.007+ 0	7.459- 5			
8.322- 8	9.826+ 1	9.933+ 1	1.199+ 1	1.076+ 1	1.237+ 0	2.040- 0	8.089+ 1	5.390- 5			
1.307- 7	1.002+ 0	1.013+ 0	1.176+ 0	1.075+ 1	1.010+ 0	1.667+ 0	6.740+ 1	4.992- 5			
1.682- 7	1.016+ 0	1.027+ 0	1.160+ 0	1.074+ 1	8.588- 1	1.417+ 0	5.806+ 1	4.301- 5			
2.561- 7	1.027+ 0	1.039+ 0	1.147+ 0	1.073+ 1	7.433- 1	1.227+ 0	5.084+ 1	3.767- 5			
3.345- 7	1.037+ 0	1.049+ 0	1.137+ 0	1.071+ 1	6.595- 1	1.088+ 0	4.552+ 1	3.373- 5			
4.234- 7	1.043+ 0	1.055+ 0	1.130+ 0	1.071+ 1	5.679- 1	9.701- 1	4.083+ 1	3.027- 5			
5.123- 7	1.049+ 0	1.061+ 0	1.124+ 0	1.073+ 1	5.092- 1	8.401- 1	3.554+ 1	2.636- 5			
7.527- 7	1.057+ 0	1.069+ 0	1.115+ 0	1.074+ 1	4.126- 1	6.807- 1	3.022+ 1	2.155- 5			
1.176- 6	1.065+ 0	1.077+ 0	1.107+ 0	1.072+ 1	3.499- 1	5.773+ 1	2.480+ 1	1.845- 5			
1.511- 6	1.072+ 0	1.085+ 0	1.099+ 0	1.069+ 1	3.008- 1	4.963+ 1	2.147+ 1	1.600- 5			
2.051- 6	1.079+ 0	1.092+ 0	1.092+ 0	1.066+ 1	2.614- 1	4.313+ 1	1.878+ 1	1.404- 5			
2.741- 6	1.095+ 0	1.098+ 0	1.086+ 1	1.063+ 1	2.281- 1	3.763+ 1	1.648+ 1	1.237- 5			
3.533- 6	1.123+ 0	1.101+ 0	1.083+ 1	1.064+ 1	1.991- 1	3.286+ 1	1.442+ 1	1.089- 5			
4.704- 6	1.158+ 0	1.101+ 0	1.083+ 1	1.065+ 1	1.766- 1	2.915+ 1	1.280+ 1	9.735- 6			
5.658- 6	1.089+ 0	1.102+ 0	1.082+ 1	1.066+ 1	1.614- 1	2.653+ 1	1.170+ 1	8.963- 6			
6.737- 6	1.089+ 0	1.102+ 0	1.082+ 1	1.068+ 1	1.477- 1	2.437+ 1	1.071+ 1	8.296- 6			
8.322- 6	1.089+ 0	1.102+ 0	1.082+ 1	1.069+ 1	1.337- 1	2.207+ 1	8.694+ 1	7.594- 6			
9.620- 6	1.089+ 0	1.102+ 0	1.082+ 1	1.070+ 1	1.247- 1	2.057+ 1	9.036+ 1	7.162- 6			
1.101- 5	1.090+ 0	1.103+ 0	1.081+ 1	1.070+ 1	1.165- 1	1.924+ 1	8.861+ 1	6.807- 6			
1.307- 5	1.091+ 0	1.104+ 0	1.083+ 1	1.069+ 1	1.092- 1	1.785+ 1	7.858+ 1	6.372- 6			
1.468- 5	1.092+ 0	1.105+ 0	1.079+ 1	1.069+ 1	1.029- 1	1.699+ 1	7.484+ 1	6.205- 6			
1.581- 5	1.092+ 0	1.106+ 0	1.079+ 1	1.069+ 1	1.015- 1	1.674+ 1	7.379+ 1	6.194- 6			
1.758- 5	1.093+ 0	1.106+ 0	1.078+ 1	1.068+ 1	1.001- 1	1.652+ 1	7.283+ 1	6.186- 6			
1.882- 5	1.093+ 0	1.107+ 0	1.078+ 1	1.068+ 1	9.866- 2	1.628+ 1	7.182+ 1	6.178- 6			
2.075- 5	1.094+ 0	1.107+ 0	1.077+ 1	1.067+ 1	9.687- 2	1.598+ 1	7.056+ 1	6.167- 6			
2.277- 5	1.095+ 0	1.108+ 0	1.077+ 1	1.067+ 1	9.532- 2	1.573+ 1	6.946+ 1	6.157- 6			
2.477- 5	1.095+ 0	1.108+ 0	1.076+ 1	1.067+ 1	9.403- 2	1.552+ 1	6.859+ 1	6.148- 6			
2.561- 5	1.095+ 0	1.109+ 0	1.076+ 1	1.066+ 1	9.270- 2	1.530+ 1	6.761+ 1	6.139- 6			
2.710- 5	1.096+ 0	1.109+ 0	1.075+ 1	1.066+ 1	9.134- 2	1.507+ 1	6.665+ 1	6.129- 6			
2.862- 5	1.096+ 0	1.110+ 0	1.075+ 1	1.066+ 1	9.030- 2	1.490+ 1	6.591+ 1	6.121- 6			
2.940- 5	1.097+ 0	1.110+ 0	1.074+ 1	1.066+ 1	8.888- 2	1.467+ 1	6.491+ 1	6.094- 6			
3.099- 5	1.098+ 0	1.111+ 0	1.074+ 1	1.066+ 1	8.769- 2	1.402+ 1	6.210+ 1	5.962- 6			
3.345- 5	1.099+ 0	1.112+ 0	1.073+ 1	1.065+ 1	8.600- 2	1.320+ 1	5.852+ 1	5.788- 6			
3.601- 5	1.100+ 0	1.113+ 0	1.071+ 1	1.064+ 1	7.483- 2	1.235+ 1	5.795+ 1	5.604- 6			
3.866- 5	1.101+ 0	1.114+ 0	1.070+ 1	1.063+ 1	7.039- 2	1.161+ 1	5.158+ 1	5.444- 6			
4.048- 5	1.102+ 0	1.115+ 0	1.070+ 1	1.063+ 1	6.674- 2	1.101+ 1	4.894+ 1	5.311- 6			
4.234- 5	1.102+ 0	1.116+ 0	1.069+ 1	1.063+ 1	6.395- 2	1.055+ 1	4.693+ 1	5.208- 6			
4.329- 5	1.103+ 0	1.116+ 0	1.069+ 1	1.062+ 1	6.048- 2	9.979- 2	4.441+ 1	5.087- 6			
4.619- 5	1.104+ 0	1.117+ 0	1.068+ 1	1.062+ 1	5.870- 2	9.686- 2	4.313+ 1	5.063- 6			
4.717- 5	1.104+ 0	1.117+ 0	1.067+ 1	1.062+ 1	5.791- 2	9.554- 2	4.256+ 1	5.078- 6			
4.918- 5	1.105+ 0	1.118+ 0	1.067+ 1	1.061+ 1	5.682- 2	9.376- 2	4.179+ 1	5.097- 6			
5.123- 5	1.105+ 0	1.119+ 0	1.066+ 1	1.061+ 1	5.572- 2	9.194+ 1	4.100+ 1	5.116- 6			
5.332- 5	1.106+ 0	1.119+ 0	1.065+ 1	1.060+ 1	5.430- 2	8.960+ 1	3.999+ 1	5.140- 6			
5.654- 5	1.107+ 0	1.120+ 0	1.065+ 1	1.060+ 1	5.316- 2	8.771+ 1	3.916+ 1	5.158- 6			
5.763- 5	1.107+ 0	1.121+ 0	1.064+ 1	1.059+ 1	5.204+ 2	8.586+ 1	3.836+ 1	5.181- 6			
6.097- 5	1.108+ 0	1.121+ 0	1.064+ 1	1.058+ 1	5.143+ 2	8.486+ 1	3.794+ 1	5.203- 6			
6.325- 5	1.108+ 0	1.122+ 0	1.063+ 1	1.058+ 1	5.125+ 2	8.456+ 1	3.782+ 1	5.339- 6			
6.557- 5	1.109+ 0	1.122+ 0	1.063+ 1	1.058+ 1	5.111+ 2	8.433+ 1	3.773+ 1	5.400- 6			
6.674- 5	1.109+ 0	1.123+ 0	1.062+ 1	1.057+ 1	5.092+ 2	8.401+ 1	3.761+ 1	5.484- 6			
7.034- 5	1.110+ 0	1.124+ 0	1.062+ 1	1.056+ 1	5.072+ 2	8.370+ 1	3.749+ 1	5.569- 6			
7.155- 5	1.111+ 0	1.124+ 0	1.061+ 1	1.056+ 1	5.053+ 2	8.337+ 1	3.736+ 1	5.656- 6			
7.527- 5	1.111+ 0	1.125+ 0	1.060+ 1	1.055+ 1	5.028+ 2	8.299+ 1	3.720+ 1	5.745- 6			
7.780- 5	1.112+ 0	1.125+ 0	1.060+ 1	1.055+ 1	5.012+ 2	8.271+ 1	3.711+ 1	5.832- 6			
7.908- 5	1.112+ 0	1.126+ 0	1.059+ 1	1.054+ 1	4.993+ 2	8.239+ 1	3.698+ 1	5.898- 6			
8.167- 5	1.113+ 0	1.126+ 0	1.059+ 1	1.054+ 1	4.955+ 2	8.176+ 1	3.672+ 1	5.978- 6			
8.431- 5	1.114+ 0	1.127+ 0	1.058+ 1	1.053+ 1	4.905+ 2	8.094+ 1	3.639+ 1	6.080- 6			
8.934- 5	1.115+ 0	1.128+ 0	1.057+ 1	1.052+ 1	4.854+ 2	8.010+ 1	3.603+ 1	6.184- 6			

ATOMIC WEIGHT		5.58474		DENSITY		7.97000		0 GRAMS/CC	
ENERGY		MF (CM)		CROSS SECTION (BARN)		ENERGY DEPOSIT (MEV)			
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REM-INDER	GAM-PROD.	TOTAL
									LOCAL
9.108-5	1.115-0	1.129-0	1.056-0	1.052-0	4.813-2	7.942-2	3.574-2	6.267-6	6.267-6
9.386-5	1.116-0	1.130-0	1.056-0	1.051-0	4.771-2	7.872-2	3.545-2	6.352-6	6.352-6
9.669-5	1.117-0	1.130-0	1.055-0	1.051-0	4.739-2	7.820-2	3.523-2	6.417-6	6.417-6
9.911-5	1.117-0	1.131-0	1.055-0	1.050-0	4.732-2	7.807-2	3.519-2	6.526-6	6.526-6
1.025-4	1.117-0	1.131-0	1.055-0	1.050-0	4.926-2	8.129-2	3.664-2	6.882-6	6.882-6
1.059-4	1.117-0	1.130-0	1.055-0	1.050-0	5.204-2	8.587-2	3.869-2	7.360-6	7.360-6
1.176-4	1.116-0	1.130-0	1.056-0	1.050-0	5.492-2	9.062-2	4.002-2	7.959-6	7.959-6
1.256-4	1.116-0	1.129-0	1.056-0	1.050-0	5.789-2	9.552-2	4.301-2	8.378-6	8.378-6
1.339-4	1.116-0	1.129-0	1.056-0	1.050-0	6.054-2	1.001-1	4.504-2	8.862-6	8.862-6
1.406-4	1.115-0	1.129-0	1.057-0	1.050-0	6.380-2	1.053-1	4.738-2	9.424-6	9.424-6
1.511-4	1.115-0	1.128-0	1.057-0	1.050-0	6.738-2	1.112-1	5.001-2	1.006-5	1.006-5
1.601-4	1.115-0	1.129-0	1.057-0	1.050-0	6.428-2	1.061-1	4.773-2	1.022-5	1.022-5
1.694-4	1.115-0	1.130-0	1.056-0	1.050-0	5.487-2	9.054-2	4.078-2	9.943-6	9.943-6
1.789-4	1.117-0	1.130-0	1.055-0	1.050-0	4.703-2	7.761-2	3.458-2	9.770-6	9.770-6
1.887-4	1.117-0	1.131-0	1.055-0	1.050-0	4.179-2	6.896-2	3.109-2	9.780-6	9.780-6
1.988-4	1.118-0	1.131-0	1.054-0	1.051-0	3.644-2	6.013-2	2.713-2	9.782-6	9.782-6
2.091-4	1.118-0	1.131-0	1.054-0	1.051-0	3.523-2	5.914-2	2.623-2	1.113-5	1.113-5
2.241-4	1.117-0	1.131-0	1.055-0	1.047-0	7.886-2	1.301-1	5.468-2	1.696-5	1.696-5
3.267-4	1.148-0	1.162-0	1.026-0	1.016-0	9.655-2	1.593-1	7.384-2	2.093-5	2.093-5
3.911-4	1.123-0	1.123-0	1.075-0	1.070-0	5.189-2	8.563-2	4.175-2	2.003-5	2.003-5
4.704-4	1.250-0	1.275-0	9.353-0	9.323-0	3.033-2	5.005-2	2.946-2	2.026-5	2.026-5
4.991-4	1.320-0	1.336-0	9.927-0	9.902-0	2.452-2	4.045-2	2.156-2	2.152-5	2.152-5
5.658-4	1.402-0	1.419-0	8.403-0	8.379-0	2.372-2	3.915-2	2.217-2	2.359-5	2.359-5
6.042-4	1.464-0	1.482-0	8.050-0	8.026-0	2.319-2	3.827-2	2.263-2	2.499-5	2.499-5
6.367-4	1.567-0	1.586-0	7.520-0	7.497-0	2.261-2	3.731-2	2.362-2	2.782-5	2.782-5
7.156-4	1.536-0	1.548-0	7.703-0	7.670-0	3.357-2	5.539-2	3.422-2	3.275-5	3.275-5
8.322-4	1.416-0	1.434-0	8.319-0	8.264-0	5.519-2	9.107-2	5.208-2	3.987-5	3.987-5
9.177-4	1.329-0	1.345-0	8.869-0	8.840-0	2.908-2	4.799-2	2.576-2	3.930-5	3.930-5
1.050-3	1.348-0	1.364-0	8.743-0	8.726-0	1.655-2	2.730-2	1.489-2	4.440-5	4.440-5
1.307-3	1.412-0	1.429-0	8.348-0	8.334-0	1.375-2	2.269-2	1.297-2	5.349-5	5.349-5
1.581-3	1.489-0	1.507-0	7.913-0	7.903-0	1.087-2	1.762-2	1.084-2	6.328-5	6.328-5
1.882-3	1.574-0	1.595-0	7.474-0	7.466-0	8.076-3	1.333-2	8.550-0	7.394-5	7.394-5
2.208-3	1.654-0	1.674-0	7.123-0	7.115-0	8.069-3	1.332-2	8.973-0	6.628-5	6.628-5
2.561-3	1.744-0	1.765-0	6.758-0	6.749-0	8.326-3	1.374-2	9.764-0	9.973-5	9.973-5
2.940-3	1.769-0	1.790-0	6.662-0	6.652-0	9.969-3	1.645-2	1.185-2	1.149-4	1.149-4
3.345-3	1.708-0	1.729-0	6.900-0	6.884-0	1.615-2	2.666-2	1.849-2	1.334-4	1.334-4
3.777-3	1.841-0	1.863-0	6.401-0	6.375-0	2.628-2	4.339-2	3.237-2	1.574-4	1.574-4
4.234-3	2.275-0	2.303-0	5.179-0	5.160-0	1.954-2	3.226-2	2.978-2	1.948-4	1.948-4
5.763-3	1.139-0	1.152-0	1.035-0	1.027-0	7.541-2	1.245-1	5.744-2	2.051-4	2.051-4
7.527-3	8.838-0	8.946-0	1.333-0	1.328-0	4.739-2	7.829-2	2.821-2	3.293-4	3.293-4
1.025-2	2.411-0	2.441-0	4.887-0	4.864-0	2.287-2	3.779-2	3.720-2	4.915-4	4.915-4
1.511-2	4.452-0	4.506-0	2.647-0	2.631-0	1.578-2	5.609-2	4.749-2	7.226-4	7.226-4
2.091-2	6.070-0	6.142-0	1.941-0	1.908-0	3.303-2	5.467-2	1.347-1	1.250-3	1.250-3
2.646-2	3.959-0	4.007-0	1.2977-0	1.2972-0	4.877-2	2.817-2	1.391-1	1.053-3	1.053-3
3.267-2	1.566-0	1.575-0	7.572-0	7.543-0	2.966-2	4.012-2	3.211-2	1.382-3	1.382-3
3.953-2	2.246-0	2.273-0	5.247-0	5.230-0	1.695-2	8.073-2	2.659-2	1.638-3	1.638-3
4.704-2	2.159-0	2.185-0	5.457-0	5.437-0	1.988-2	3.303-2	3.059-2	2.006-3	2.006-3
5.761-2	3.975-0	4.023-0	2.964-0	2.941-0	2.312-2	3.046-2	6.386-2	2.677-3	2.677-3
7.002-2	2.192-0	2.219-0	5.375-0	5.355-0	1.997-2	3.328-2	3.205-2	2.903-3	2.903-3
8.322-2	1.648-0	1.668-0	7.151-0	7.133-0	1.846-2	3.082-2	2.358-2	3.326-3	3.326-3
9.091-2	3.302-0	3.349-0	3.020-0	3.014-0	5.960-3	1.442-2	1.961-2	4.130-3	4.130-3
1.307-1	2.337-0	2.352-0	4.154-0	4.149-0	5.718-2	2.652-2	1.607-2	5.267-3	5.267-3
1.820-1	2.218-0	2.371-0	5.311-0	5.306-0	5.526-3	3.746-2	1.474-2	6.579-3	6.579-3
2.075-1	4.237-0	4.557-0	2.781-0	2.776-0	5.377-3	3.968-2	2.294-2	7.768-3	7.768-3
2.417-1	4.907-0	5.325-0	2.401-0	2.396-0	5.218-3	4.016-2	2.579-2	8.736-3	8.736-3
2.710-1	3.963-0	4.335-0	2.973-0	2.968-0	5.088-3	4.055-2	2.295-2	9.522-3	9.522-3
2.940-1	4.630-0	5.095-0	2.545-0	2.540-0	4.973-3	4.111-2	2.603-2	1.069-2	1.069-2
3.345-1	5.159-0	5.738-0	2.289-0	2.279-0	4.980-3	4.194-2	2.884-2	1.202-2	1.202-2
3.777-1	2.047-0	2.304-0	5.758-0	5.753-0	4.790-3	4.283-2	1.934-2	1.279-2	1.279-2
4.234-1	2.887-0	3.292-0	4.082-0	4.078-0	4.664-3	4.418-2	2.378-2	1.481-2	1.481-2
5.123-1	4.522-0	5.295-0	2.606-0	2.601-0	4.455-3	4.626-2	3.110-2	1.767-2	1.767-2
6.325-1	4.095-0	4.974-0	2.878-0	2.873-0	4.215-3	4.665-2	3.231-2	2.080-2	2.080-2

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ENDL 175 Group Neutron Constants

26-Fe-Nat

ATOMIC WEIGHT 5.58474		DENSITY 7.87000 G/CM ³							
ENERGY	MFP (CM)	CROSS SECTION (BARNS)				ENERGY DEPOSIT(MEV)			
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1	3.452+0	4.746+0	3.414+0	3.408+0	3.884+0	3.1512-3	9.363-2	3.255-2	2.324-2
6.834-1	5.024+0	5.44+0	2.345+0	2.063+0	3.236-3	2.794-1	3.453-1	1.378-1	2.630-2
1.025+0	4.430+0	5.459+0	2.660+0	2.115+0	2.749-3	5.422-1	4.950-1	2.095-1	2.907-2
1.176+0	3.776+0	4.719+0	3.121+0	2.495+0	2.357-3	6.228-1	4.553-1	2.077-1	3.311-2
1.338+0	3.993+0	5.007+0	2.951+0	2.267+0	1.957-3	6.826-1	4.509-1	2.377-1	3.703-2
1.511+0	3.773+0	4.601+0	3.123+0	2.401+0	1.718-3	7.204-1	4.562-1	2.404-1	4.112-2
1.694+0	3.716+0	5.303+0	2.830+0	2.069+0	1.587-3	7.596-1	6.949-1	2.775-1	4.581-2
1.887+0	3.556+0	4.678+0	3.124+0	2.326+0	1.999-3	8.095-1	6.623-1	2.741-1	5.027-2
2.091+0	3.574+0	5.088+0	3.009+0	2.114+0	3.096-3	8.914-1	6.876-1	3.145-1	5.491-2
2.305+0	3.489+0	4.668+0	3.381+0	2.438+0	4.636-3	9.380-1	7.108+0	3.014-1	5.861-2
2.530+0	3.280+0	4.552+0	3.592+0	2.625+0	6.086-3	9.615-1	7.142+0	3.002-1	6.167-2
2.744+0	3.578+0	5.000+0	3.293+0	2.277+0	8.437-3	1.008+0	1.332+0	3.600-1	6.426-2
3.011+0	3.425+0	4.904+0	3.441+0	2.314+0	1.046+0	1.116+0	1.532+0	4.280-1	6.734-2
3.267+0	3.456+0	5.027+0	3.409+0	2.203+0	1.199+0	1.195+0	1.655+0	5.325-1	6.857-2
3.533+0	2.444+0	5.055+0	3.422+0	2.096+0	1.476+0	1.310+0	1.849+0	6.642-1	7.001-2
3.811+0	3.276+0	4.914+0	3.597+0	2.150+0	1.668+0	1.430+0	1.990+0	7.691-1	7.154-2
4.069+0	3.152+0	4.860+0	3.786+0	2.237+0	1.972+0	1.462+0	2.147+0	8.940-1	7.301-2
4.366+0	3.036+0	5.153+0	3.675+0	2.186+0	2.348+0	1.465+0	2.357+0	9.520-1	7.480-2
4.704+0	2.892+0	5.511+0	3.579+0	2.123+0	2.686+0	1.420+0	2.539+0	1.036+0	7.622-2
4.991+0	3.325+0	5.767+0	3.544+0	2.102+0	3.116+0	1.410+0	2.656+0	1.142+0	7.907-2
5.353+0	3.314+0	5.851+0	3.556+0	2.112+0	3.612+0	1.408+0	2.857+0	1.246+0	8.341-2
5.658+0	3.306+0	5.861+0	3.561+0	2.090+0	4.243+0	1.432+0	2.989+0	1.378+0	8.896-2
6.042+0	3.301+0	5.899+0	3.569+0	2.067+0	4.955+0	1.453+0	3.063+0	1.524+0	9.460-2
6.367+0	3.246+0	5.897+0	3.630+0	2.107+0	5.963+0	1.467+0	3.131+0	1.643+0	9.920-2
6.737+0	3.274+0	5.965+0	3.600+0	2.054+0	6.279+0	1.463+0	3.193+0	1.822+0	1.061-1
7.156+0	3.299+0	6.073+0	3.571+0	2.015+0	6.821+0	1.489+0	3.204+0	2.002+0	1.126-1
7.548+0	3.357+0	6.254+0	3.510+0	1.963+0	7.501+0	1.472+0	3.209+0	2.163+0	1.201-1
7.910+0	3.457+0	6.479+0	3.409+0	1.880+0	8.185+0	1.447+0	3.214+0	2.342+0	1.297-1
8.322+0	3.538+0	6.605+0	3.330+0	1.814+0	8.657+0	1.430+0	3.224+0	2.547+0	1.404-1
8.787+0	3.589+0	6.661+0	3.283+0	1.769+0	9.392+0	1.420+0	3.225+0	2.747+0	1.528-1
9.177+0	3.661+0	6.723+0	3.218+0	1.706+0	1.017-1	1.410+0	3.212+0	2.973+0	1.671-1
9.665+0	3.751+0	6.827+0	3.133+0	1.631+0	1.088-1	1.393+0	3.199+0	3.225+0	1.835-1
1.012-1	3.865+0	6.919+0	3.049+0	1.558+0	1.165-1	1.374+0	3.185+0	3.463+0	2.023-1
1.058-1	3.965+0	6.950+0	2.972+0	1.487+0	1.227-1	1.362+0	3.172+0	3.703+0	2.211-1
1.101-1	4.071+0	6.989+0	2.894+0	1.416+0	1.301-1	1.348+0	3.123+0	3.964+0	2.433-1
1.155-1	4.160+0	7.027+0	2.833+0	1.365+0	1.373-1	1.331+0	3.013+0	4.179+0	2.657-1
1.199-1	4.216+0	7.077+0	2.795+0	1.326+0	1.435-1	1.326+0	2.891+0	4.311+0	2.871-1
1.250-1	4.301+0	7.058+0	2.740+0	1.277+0	1.499-1	1.313+0	2.741+0	4.308+0	3.142-1
1.307-1	4.422+0	7.184+0	2.665+0	1.228+0	1.545-1	1.262+0	2.596+0	4.135+0	3.425-1
1.354+0	4.481+0	7.210+0	2.630+0	1.198+0	1.553-1	1.276+0	2.485+0	3.959+0	3.604-1
1.386+0	4.509+0	7.179+0	2.613+0	1.173+0	1.539-1	1.287+0	2.403+0	3.847+0	3.711-1
1.413+0	4.530+0	7.111+0	2.601+0	1.150+0	1.518-1	1.300+0	2.327+0	3.810+0	3.795-1
1.441+0	4.552+0	7.019+0	2.589+0	1.127+0	1.493-1	1.313+0	2.251+0	3.786+0	3.875-1
1.468+0	4.616+0	7.014+0	2.553+0	1.094+0	1.416-1	1.317+0	2.195+0	3.765+0	3.942-1
1.519+0	4.695+0	7.062+0	2.510+0	1.053+0	1.307-1	1.326+0	2.182+0	3.736+0	4.005-1
1.575+0	4.774+0	7.102+0	2.468+0	1.012+0	1.192-1	1.337+0	2.179+0	3.700+0	4.055-1
1.633+0	4.829+0	7.107+0	2.440+0	9.838-1	1.085-1	1.348+0	2.175+0	3.649+0	4.090-1
1.692+0	4.872+0	7.093+0	2.419+0	9.647-1	1.004-1	1.354+0	2.172+0	3.592+0	4.139-1
1.752+0	4.917+0	7.084+0	2.397+0	9.460-1	9.229-1	1.358+0	2.169+0	3.590+0	4.184-1
1.813+0	4.965+0	7.108+0	2.373+0	9.344-1	8.336-1	1.356+0	2.165+0	3.621+0	4.199-1
1.875+0	5.042+0	7.195+0	2.337+0	9.217-1	6.935-1	1.346+0	2.160+0	3.660+0	4.175-1
2.000+0									
RESONANCE INTEGRALS									
MAXWELLIAN AVERAGES									
1/E AVERAGES									
FISSION AVERAGES									
FUSION AVERAGES									

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT		5.8935+1		DENSITY		8.8503+0 GRAMS/CC	
ENERGY		MFP (CM)		CROSS SECTION (BARNS)		ENRGRY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN REMAINDER	GAM-PROD.
1.307-9	9.406-2	9.412-2	1.176-2	6.658-0	1.139+2	2.717+2	7.066+0
5.227-9	1.750-1	1.752-1	6.319-1	6.658-0	5.654+1	1.385+2	6.701+0
2.091-8	2.546-1	2.550-1	4.344+1	6.658-0	3.678+1	9.011+1	6.342+0
3.267-8	2.94-1	3.000-1	3.693+1	6.659-0	3.027+1	7.416+1	6.139+0
4.704-8	3.641+1	3.650-1	3.037+1	6.659-0	2.371+1	5.610+1	5.848+0
8.322-8	4.391+1	4.404+1	2.518+1	6.660-0	1.852+1	4.538+1	5.509+0
1.307-7	5.044+1	5.041+1	2.201+1	6.661+0	1.535+1	3.761+1	5.223+0
1.862-7	5.34+1	5.717+1	1.942+1	6.663+0	1.276+1	3.125+1	4.920+0
2.561-7	6.239+1	6.266+1	1.772+1	6.665+0	1.106+1	2.709+1	4.673+0
3.345-7	6.685+1	6.716+1	1.654+1	6.666+0	9.874+0	2.119+1	4.471+0
4.234-7	7.166+1	7.202+1	1.543+1	6.669+0	8.761+0	2.147+1	4.253+0
5.123-7	7.752+1	7.793+1	1.466+1	6.672+0	7.593+0	1.860+1	3.987+0
7.527-7	8.576+1	8.627+1	1.299+1	6.680+0	6.214+0	1.523+1	3.610+0
1.176-6	9.166+1	9.224+1	1.206+1	6.689+0	5.376+0	1.317+1	3.337+0
1.511-6	9.792+1	9.859+1	1.129+1	6.699+0	4.594+0	1.125+1	3.047+0
2.031-6	1.036+0	1.043+0	1.068+0	6.713+0	3.965+0	9.715+0	2.781+0
2.741-6	1.086+0	1.086+0	1.026+0	6.730+0	3.532+0	8.655+0	2.578+0
3.533-6	1.113+0	1.122+0	9.934+0	6.752+0	3.182+0	7.795+0	2.399+0
4.704-6	1.154+0	1.163+0	9.583+0	6.776+0	2.806+0	6.876+0	2.194+0
5.658-6	1.176+0	1.186+0	9.400+0	6.800+0	2.500+0	6.371+0	2.072+0
6.757-6	1.134+0	1.204+0	9.260+0	6.830+0	2.430+0	5.952+0	1.965+0
8.322-6	1.213+0	1.225+0	9.109+0	6.863+0	2.245+0	5.499+0	1.846+0
9.620-6	1.229+0	1.240+0	8.994+0	6.894+0	2.101+0	5.146+0	1.749+0
1.101-5	1.234+0	1.245+0	8.960+0	6.933+0	2.026+0	4.964+0	1.694+0
1.307-5	1.234+0	1.250+0	8.929+0	6.975+0	1.954+0	4.787+0	1.639+0
1.468-5	1.242+0	1.253+0	8.907+0	7.007+0	1.900+0	4.655+0	1.588+0
1.581-5	1.245+0	1.256+0	8.883+0	7.040+0	1.843+0	4.515+0	1.554+0
1.758-5	1.248+0	1.260+0	8.858+0	7.074+0	1.783+0	4.369+0	1.508+0
1.882-5	1.251+0	1.263+0	8.839+0	7.115+0	1.724+0	4.224+0	1.461+0
2.075-5	1.239+0	1.251+0	8.925+0	7.230+0	1.695+0	4.153+0	1.423+0
2.277-5	1.225+0	1.236+0	9.029+0	7.347+0	1.662+0	4.121+0	1.395+0
2.417-5	1.213+0	1.224+0	9.116+0	7.444+0	1.671+0	4.735+0	1.373+0
2.561-5	1.201+0	1.213+0	9.205+0	7.545+0	1.680+0	4.068+0	1.351+0
2.710-5	1.189+0	1.201+0	9.297+0	7.648+0	1.649+0	4.740+0	1.329+0
2.862-5	1.180+0	1.192+0	9.367+0	7.727+0	1.640+0	4.019+0	1.312+0
2.940-5	1.171+0	1.182+0	9.443+0	7.808+0	1.635+0	4.006+0	1.297+0
3.099-5	1.152+0	1.163+0	9.602+0	7.947+0	1.655+0	4.054+0	1.291+0
3.345-5	1.128+0	1.139+0	9.803+0	8.119+0	1.644+0	4.125+0	1.287+0
3.601-5	1.105+0	1.115+0	1.001+0	8.297+0	1.744+0	4.199+0	1.282+0
3.866-5	1.085+0	1.095+0	1.019+0	8.452+0	1.740+0	4.262+0	1.279+0
4.048-5	1.057+0	1.057+0	1.046+0	8.700+0	1.761+0	4.314+0	1.261+0
4.234-5	1.031+0	1.041+0	1.073+0	8.946+0	1.777+0	4.354+0	1.241+0
4.329-5	9.973+0	1.007+0	1.109+0	9.288+0	1.795+0	4.408+0	1.215+0
4.619-5	9.654+0	9.748+0	1.145+0	9.632+0	1.822+0	4.463+0	1.191+0
4.717-5	9.422+0	9.514+0	1.174+0	9.897+0	1.839+0	4.505+0	1.174+0
4.816-5	9.128+0	9.211+0	1.212+0	1.028+1	1.865+0	4.572+0	1.153+0
5.123-5	8.615+0	8.901+0	1.294+0	1.062+1	1.922+0	4.710+0	1.148+0
5.332-5	8.446+0	8.526+0	1.309+0	1.109+1	2.002+0	4.905+0	1.145+0
5.654-5	8.168+0	8.277+0	1.254+0	1.147+1	2.067+0	5.064+0	1.144+0
5.763-5	7.894+0	7.972+0	1.401+0	1.187+1	2.135+0	5.239+0	1.142+0
6.097-5	7.406+0	7.476+0	1.433+0	1.268+1	2.252+0	5.517+0	1.130+0
6.325-5	6.952+0	7.030+0	1.539+0	1.352+1	2.396+0	5.784+0	1.116+0
6.557-5	6.599+0	6.724+0	1.661+0	1.415+1	2.533+0	6.010+0	1.106+0
6.674-5	6.295+0	6.347+0	1.755+0	1.502+1	2.572+0	6.301+0	1.095+0
7.034-5	5.901+0	5.959+0	1.874+0	1.603+1	2.708+0	6.634+0	1.082+0
7.155-5	5.387+0	5.440+0	2.053+0	1.761+1	2.915+0	7.141+0	1.063+0
7.627-5	4.651+0	4.699+0	2.280+0	1.962+1	3.177+0	7.794+0	1.044+0
7.780-5	4.573+0	4.619+0	2.418+0	2.144+1	3.337+0	8.172+0	1.034+0
7.936-5	4.294+0	4.337+0	2.676+0	2.427+1	3.517+0	8.616+0	1.023+0
8.167-5	3.798+0	3.830+0	2.911+0	2.823+1	3.688+0	9.526+0	1.000+0
8.431-5	3.277+0	3.309+0	3.375+0	2.935+1	4.398+0	1.077+1	9.750+0
8.834-5	2.670+0	2.699+0	3.652+0	3.360+1	4.922+0	1.206+1	9.570+0

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 5.8935 ± 1		DENSITY 8.5803 ± 0 GRAMS/CC									
ENERGY MEV	HFP (CM)	CROSS SECTION (BARN)								ENERGY DEPOSIT (MEV)	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORBIN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.108-5	2.434-1	2.459-1	4.543-1	3.978-1	5.618-0	1.384-1	9.313-1	7.641-5			
9.386-5	2.047-1	2.068-1	5.403-1	4.748-1	6.543-0	1.603-1	8.071-1	7.492-5			
9.660-5	1.826-1	1.845-1	6.055-1	5.333-1	7.222-0	1.769-1	6.934-1	7.414-5			
9.911-5	1.548-1	1.563-1	7.145-1	6.312-1	8.338-0	2.043-1	8.741-1	7.304-5			
1.025-4	9.334-2	9.430-2	1.185-2	1.055-2	1.297-1	3.178-1	8.202-1	6.958-5			
1.099-4	4.763-2	4.812-2	2.322-2	2.082-2	2.393-1	5.863-1	7.721-1	6.672-5			
1.176-4	1.423-2	1.438-2	7.770-2	7.034-2	7.358-1	1.803-2	7.093-1	6.262-5			
1.256-4	1.796-3	1.115-3	6.158-3	5.622-3	5.344-2	1.309-3	6.502-1	5.869-5			
1.336-4	3.620-3	3.638-3	3.054-3	3.603-3	2.511-2	6.133-2	6.156-1	5.641-5			
1.406-4	2.104-2	2.121-2	5.254-2	4.881-2	3.937-1	3.674-1	5.613-1	5.289-5			
1.511-4	6.072-2	6.138-2	1.821-2	1.699-2	1.225-1	1.001-1	5.039-1	4.880-5			
1.601-4	1.091-1	1.093-1	1.023-2	9.998-1	6.793-0	1.342-1	4.609-1	4.593-5			
1.694-4	1.455-1	1.470-1	7.602-1	7.163-1	4.389-0	1.075-1	4.325-1	4.427-5			
1.789-4	1.971-1	1.993-1	5.610-1	5.308-1	3.025-0	7.412-0	4.039-1	4.254-5			
1.887-4	2.968-1	2.994-1	3.733-1	3.559-1	1.745-0	4.274-0	3.500-1	3.893-5			
1.980-4	3.980-1	3.619-1	3.089-1	2.955-1	1.340-0	3.284-0	3.250-1	3.692-5			
2.091-4	6.010-1	6.077-1	1.840-1	1.776-1	6.342-1	1.554-0	2.582-1	3.277-5			
2.741-4	1.102-0	1.114-0	1.004-1	9.822-0	2.167-1	5.309-1	1.617-1	2.681-5			
3.267-4	1.480-0	1.497-0	7.469-0	7.347-0	1.222-1	2.994-1	1.225-1	2.534-5			
3.611-4	1.894-0	1.916-0	5.838-0	5.766-0	7.245-2	1.775-1	9.297-2	2.522-5			
4.704-4	2.202-0	2.227-0	5.021-0	4.968-0	5.304-2	1.300-1	7.914-2	2.618-5			
4.991-4	2.516-0	2.545-0	4.395-0	4.333-0	4.262-2	1.044-1	7.265-2	2.732-5			
5.659-4	2.835-0	2.857-0	3.914-0	3.879-0	3.561-2	8.579-1	6.705-2	2.879-5			
6.042-4	2.968-0	3.002-0	3.725-0	3.694-0	3.170-2	7.767-2	6.376-2	2.979-5			
6.367-4	3.182-0	3.219-0	3.475-0	3.448-0	2.652-2	6.499-2	5.720-2	3.104-5			
7.156-4	3.453-0	3.492-0	3.203-0	3.182-0	2.065-2	5.059-2	4.832-2	3.351-5			
8.322-4	3.645-0	3.687-0	3.033-0	3.016-0	1.721-2	4.218-2	4.254-2	3.647-5			
9.177-4	3.717-0	3.759-0	2.975-0	2.961-0	1.455-2	3.564-2	3.666-2	3.987-5			
1.056-3	4.236-0	4.285-0	2.610-0	2.598-0	1.207-2	2.958-2	3.459-2	4.645-5			
1.307-3	4.826-0	4.982-0	2.245-0	2.195-0	1.494-2	1.211-1	1.560-1	8.783-5			
1.591-3	5.687-0	5.753-0	1.944-0	1.935-0	9.822-3	2.407-2	3.790-2	6.797-5			
1.882-3	6.236-0	6.309-0	1.773-0	1.763-0	1.029-2	2.522-2	4.354-2	8.173-5			
2.208-3	6.411-0	6.489-0	1.724-0	1.713-0	1.130-2	2.769-2	4.918-2	6.998-5			
2.561-3	5.514-0	5.570-0	2.042-0	1.765-0	2.734-1	6.701-1	1.003-0	5.204-5			
2.940-3	4.938-0	4.997-0	2.239-0	2.225-0	1.893-2	4.616-2	6.312-2	1.338-4			
3.343-3	3.399-0	2.428-0	4.609-0	4.577-0	3.803-2	7.850-2	5.219-2	1.460-4			
3.777-3	4.492-0	4.547-0	2.462-0	2.439-1	2.235-1	5.480-1	6.820-2	1.749-4			
4.234-3	7.203-2	7.292-2	1.535-2	1.532-2	3.211-1	7.872-1	1.584-2	1.727-4			
5.763-3	4.915-1	4.978-1	2.250-1	2.243-1	6.361-2	1.560-1	2.141-2	2.299-4			
7.527-3	9.974-1	1.011-1	1.109-1	1.100-1	8.671-2	2.127-1	5.894-2	3.535-4			
1.025-2	1.418-0	1.438-0	7.796-0	7.736-0	5.341-2	1.469-1	5.734-2	4.807-4			
1.511-2	1.496-0	1.519-0	7.391-0	7.359-0	3.236-2	7.946-2	3.343-2	6.356-4			
2.091-2	4.454-0	4.529-0	2.483-1	2.479-1	3.781-2	9.291-2	1.222-2	6.111-4			
2.646-2	3.500-1	8.655-1	1.101-1	1.098-1	2.902-2	7.135-2	1.774-2	1.036-3			
3.267-2	9.921-1	1.012-0	1.115-1	1.113-1	1.982-2	1.601-1	1.454-2	2.127-3			
3.953-2	1.628-0	1.663-0	6.793-0	6.771-0	2.158-2	1.735-1	2.538-2	1.580-3			
4.704-2	1.317-0	1.349-0	8.393-0	8.333-0	9.543-3	1.529-1	1.029-1	1.772-3			
5.761-2	1.907-0	1.855-0	6.260-0	6.110-0	1.029-2	1.266-1	1.473-2	2.137-3			
7.002-2	1.733-0	1.705-0	6.381-0	6.368-0	1.277-2	8.736-2	1.759-2	2.600-3			
8.322-2	1.321-0	1.366-0	8.370-0	8.353-0	1.675-2	6.435-2	1.016-2	3.172-3			
9.891-2	1.484-0	1.541-0	7.450-0	7.429-0	2.096-2	4.475-2	2.500-2	3.927-3			
1.307-1	2.523-0	2.641-0	4.383-1	4.365-1	1.828-2	4.692-2	3.771-2	5.469-3			
1.820-1	2.176-0	2.309-0	5.082-1	5.066-1	1.545-2	4.896-2	2.948-2	6.697-3			
2.075-1	2.710-0	2.900-0	4.081-0	4.067-0	1.439-2	5.056-2	3.408-2	7.567-3			
2.177-1	2.654-0	2.901-0	4.151-0	4.137-0	1.359-2	5.134-2	3.314-2	8.607-3			
2.710-1	2.527-0	2.794-0	4.376-0	4.363-0	1.294-2	4.971-2	3.145-2	9.296-3			
2.940-1	2.545-0	2.849-0	4.344-0	4.332-0	1.225-2	4.755-2	3.150-2	1.036-2			
3.345-1	2.522-0	2.767-0	4.384-0	4.373-0	1.152-2	4.472-2	3.144-2	1.175-2			
3.777-1	3.073-0	3.426-0	3.339-0	2.588-0	1.074-2	4.171-2	3.537-2	1.300-2			
4.234-1	2.554-0	2.880-0	4.329-0	4.319-0	9.569-3	3.719-2	3.158-2	1.600-2			
5.123-1	2.971-0	3.347-0	3.722-0	3.714-0	8.320-3	3.438-2	3.460-2	1.784-2			
6.325-1	2.923-0	3.407-0	3.782-0	3.774-0	8.058-3	3.742-2	3.759-2	2.131-2			

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 5.8935+ 1		DENSITY 8.8503+ 0 GRAMS/CC						
ENERGY MEV	MEP (CM)	CROSS SECTION (BARNS)					ENERGY DEPOSIT (MEV)	
		TOTAL	TOTAL TRANSPORT	ELASTIC	ABSORPT	REMAINDER	GAM-PROD.	TOTAL
7.527-1	3.276+0	3.936+0	3.376+0	3.367+0	8.469-3	3.312-2	4.404+0	2.530+0
8.834-1	3.268+0	3.764+0	3.383+0	3.375+0	8.485-3	3.706-2	4.766+0	2.929+0
1.025+0	3.422+0	4.078+0	3.231+0	3.212+0	9.347-3	2.042-2	5.495+0	3.278+0
1.176+0	3.326+0	3.930+0	3.322+0	3.161+0	8.117-3	5.133-1	1.053+0	3.580+0
1.336+0	3.505+0	4.196+0	3.155+0	2.826+0	7.459-3	3.210-1	1.064+0	3.817+0
1.511+0	3.309+0	4.198+0	3.342+0	2.747+0	6.699-3	5.880-1	1.610+0	3.977+0
1.694+0	3.397+0	4.439+0	3.256+0	2.507+0	6.012-3	7.427-1	2.085+0	4.184+0
1.887+0	3.395+0	4.640+0	3.257+0	2.389+0	5.653-3	8.620-1	2.440+0	4.397+0
2.051+0	3.395+0	4.721+0	3.292+0	2.338+0	5.541-3	9.488-1	2.768+0	4.676+0
2.305+0	3.306+0	4.662+0	3.344+0	2.246+0	5.476-3	1.093+0	3.103+0	4.921+0
2.530+0	3.233+0	4.647+0	3.421+0	2.147+0	5.527-3	1.268+0	3.366+0	5.138+0
2.741+0	3.298+0	4.831+0	3.363+0	1.989+0	5.663-3	1.368+0	3.606+0	5.466+0
3.011+0	3.207+0	4.737+0	3.448+0	2.050+0	5.979-3	1.392+0	3.716+0	5.807+0
3.267+0	3.131+0	4.671+0	3.532+0	2.123+0	6.440-3	1.402+0	3.689+0	6.312+0
3.533+0	3.152+0	4.877+0	3.508+0	2.095+0	6.921-3	1.406+0	3.659+0	6.550+0
3.811+0	3.105+0	4.978+0	3.562+0	2.142+0	7.413-3	1.412+0	3.630+0	6.571+0
4.069+0	3.089+0	5.191+0	3.562+0	2.168+0	8.418-3	1.426+0	3.632+0	6.786+0
4.396+0	3.030+0	5.184+0	3.650+0	2.198+0	9.673-3	1.442+0	3.653+0	7.105+0
4.704+0	2.988+0	5.182+0	3.701+0	2.236+0	1.085-2	1.454+0	3.697+0	7.351+0
4.991+0	2.967+0	5.199+0	3.727+0	2.253+0	1.276-2	1.461+0	3.754+0	7.599+0
5.253+0	2.946+0	5.299+0	3.753+0	2.274+0	1.532-2	1.464+0	3.821+0	7.820+0
5.658+0	2.946+0	5.420+0	3.753+0	2.278+0	1.812-2	1.457+0	3.883+0	8.016+0
6.042+0	2.965+0	5.599+0	3.730+0	2.267+0	2.266-2	1.440+0	3.930+0	8.410+0
6.367+0	2.989+0	5.680+0	3.693+0	2.247+0	2.844+0	1.417+0	3.964+0	8.966+0
6.737+0	3.033+0	5.802+0	3.645+0	2.220+0	3.545-2	1.290+0	4.001+0	9.846+0
7.156+0	3.092+0	5.946+0	3.577+0	2.175+0	4.496-2	1.356+0	4.028+0	1.049+1
7.548+0	3.135+0	6.077+0	3.528+0	2.150+0	5.456-2	1.324+0	4.061+0	1.133+1
7.910+0	3.190+0	6.205+0	3.477+0	2.120+0	6.423-2	1.293+0	4.114+0	1.233+1
8.322+0	3.245+0	6.319+0	3.407+0	2.069+0	7.472-2	1.264+0	4.201+0	1.356+1
8.787+0	3.307+0	6.426+0	3.344+0	2.024+0	8.447-2	1.235+0	4.275+0	1.520+1
9.177+0	3.347+0	6.557+0	3.304+0	2.016+0	9.159-2	1.196+0	4.319+0	1.649+1
9.665+0	3.408+0	6.724+0	3.244+0	1.992+0	9.860-2	1.154+0	4.388+0	1.796+1
1.012+1	3.484+0	6.853+0	3.174+0	1.946+0	1.028-1	1.125+0	4.462+0	1.946+1
1.058+1	3.572+0	6.905+0	3.095+0	1.877+0	1.059-1	1.112+0	4.531+0	2.101+1
1.101+1	3.657+0	6.935+0	3.024+0	1.809+0	1.090-1	1.106+0	4.532+0	2.286+1
1.155+1	3.736+0	6.936+0	2.960+0	1.744+0	1.122-1	1.104+0	4.596+0	2.421+1
1.199+1	3.917+0	6.937+0	2.897+0	1.676+0	1.149-1	1.105+0	4.625+0	2.628+1
1.250+1	3.907+0	6.982+0	2.831+0	1.616+0	1.161-1	1.098+0	4.451+0	2.849+1
1.307+1	3.994+0	7.017+0	2.768+0	1.558+0	1.162-1	1.094+0	4.345+0	3.035+1
1.354+1	4.059+0	7.027+0	2.724+0	1.514+0	1.156-1	1.095+0	4.276+0	3.189+1
1.386+1	4.108+0	7.037+0	2.692+0	1.481+0	1.148-1	1.096+0	4.265+0	3.316+1
1.413+1	4.154+0	7.047+0	2.662+0	1.451+0	1.132-1	1.098+0	4.275+0	3.461+1
1.441+1	4.203+0	7.056+0	2.631+0	1.420+0	1.113-1	1.100+0	4.274+0	3.616+1
1.468+1	4.262+0	7.074+0	2.594+0	1.383+0	1.082-1	1.102+0	4.210+0	3.507+1
1.519+1	4.330+0	7.077+0	2.554+0	1.343+0	1.026-1	1.108+0	4.159+0	3.597+1
1.575+1	4.400+0	7.078+0	2.513+0	1.302+0	9.621-2	1.114+0	4.144+0	3.679+1
1.633+1	4.466+0	7.095+0	2.476+0	1.266+0	9.010-2	1.120+0	4.042+0	3.765+1
1.692+1	4.520+0	7.120+0	2.446+0	1.236+0	8.364+0	1.126+0	3.961+0	3.861+1
1.752+1	4.563+0	7.135+0	2.423+0	1.213+0	7.722-2	1.133+0	3.992+0	3.855+1
1.813+1	4.609+0	7.151+0	2.398+0	1.189+0	7.122-2	1.139+0	4.100+0	3.899+1
1.875+1	4.670+0	7.202+0	2.368+0	1.164+0	6.289-2	1.141+0	4.323+0	3.956+1
2.000+1								
RESONANCE INTERVALS		9.568+0	2.7.858+0	2.7.780+0	1.3152+0	0.2.001+0		
MAXWELLIAN AVERAGES		4.044+0	1.6.659+0	3.378+0			8.276+1	
1/E AVERAGES		4.952+0	1.4.483+0	1.4.445+0	1.800+0	1.1.433+0		
FISSION AVERAGES		3.628+0	2.9.733+0	9.000+0	3.6.455+0	1.7.877+0		
FUSION AVERAGES		2.685+0	1.4.474+0	1.1.339+0	1.0.912+0	4.2.755+0		

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ATOMIC WEIGHT 5.8689+1		DENSITY 8.8988+0 GRAMS/CC									
ENERGY MEV	HFP (CM)		CROSS SECTION (BARN)							ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
1.307-9	3.651-1	3.675-1	2.999-1	1.650-1	1.349-1			1.933-1	3.869-0	2.990-4	
5.227-9	4.711-1	4.749-1	2.325-1	1.650-1	6.748-0			9.718-0	2.496-0	1.930-4	
2.091-9	5.215-1	5.262-1	2.100-1	1.650-1	4.501-0			6.481-0	1.834-0	1.425-4	
3.267-8	5.427-1	5.478-1	2.018-1	1.650-1	3.680-0			5.299-0	1.568-0	1.212-4	
4.707-8	5.648-1	5.703-1	1.939-1	1.650-1	2.891-0			4.163-0	1.292-0	9.912-5	
6.322-8	5.840-1	5.899-1	1.875-1	1.650-1	2.253-0			3.244-0	1.033-0	7.980-5	
7.107-8	5.968-1	6.030-1	1.835-1	1.650-1	1.850-0			2.664-0	8.665-1	6.701-5	
1.882-7	6.064-1	6.128-1	1.806-1	1.650-1	1.560-0			2.246-0	7.427-1	5.743-5	
2.561-7	6.135-1	6.201-1	1.785-1	1.650-1	1.350-0			1.944-0	6.503-1	5.029-5	
3.345-7	6.193-1	6.260-1	1.768-1	1.650-1	1.185-0			1.706-0	5.760-1	4.456-5	
4.234-7	6.235-1	6.302-1	1.757-1	1.650-1	1.066-0			1.535-0	5.217-1	4.037-5	
5.123-7	6.266-1	6.335-1	1.742-1	1.650-1	9.227-1			1.329-0	4.555-1	3.526-5	
7.527-7	6.350-1	6.420-1	1.725-1	1.650-1	7.473-1			1.078-0	3.726-1	2.827-5	
1.176-6	6.391-1	6.463-1	1.713-1	1.650-1	6.345-1			9.136-1	3.184-1	2.471-5	
1.711-6	6.425-1	6.497-1	1.705-1	1.650-1	5.454-1			7.654-1	2.752-1	2.139-5	
2.091-6	6.453-1	6.525-1	1.697-1	1.650-1	4.723-1			6.801-1	2.393-1	1.864-5	
2.741-6	6.474-1	6.546-1	1.692-1	1.650-1	4.150-1			5.976-1	2.110-1	1.649-5	
3.533-6	6.496-1	6.569-1	1.686-1	1.650-1	3.585-1			5.177-1	1.834-1	1.440-5	
4.704-6	6.511-1	6.583-1	1.682-1	1.650-1	3.202-1			4.611-1	1.637-1	1.292-5	
5.658-6	6.521-1	6.596-1	1.679-1	1.650-1	2.930-1			4.219-1	1.500-1	1.191-5	
6.737-6	6.532-1	6.606-1	1.677-1	1.650-1	2.667-1			3.841-1	1.368-1	1.094-5	
8.322-6	6.541-1	6.616-1	1.674-1	1.650-1	2.431-1			3.500-1	1.249-1	1.007-5	
9.620-6	6.547-1	6.622-1	1.673-1	1.650-1	2.280-1			3.283-1	1.172-1	9.538-6	
1.101-5	6.552-1	6.627-1	1.671-1	1.650-1	2.134-1			3.073-1	1.098-1	9.035-6	
1.307-5	6.558-1	6.633-1	1.670-1	1.650-1	1.999-1			2.879-1	1.030-1	8.579-6	
1.668-5	6.561-1	6.636-1	1.669-1	1.650-1	1.915-1			2.757-1	9.865-2	8.300-6	
1.591-5	6.564-1	6.640-1	1.668-1	1.650-1	1.833-1			2.639-1	9.448-2	8.034-6	
1.758-5	6.568-1	6.643-1	1.667-1	1.650-1	1.748-1			2.517-1	9.016-2	7.757-6	
1.882-5	6.570-1	6.646-1	1.667-1	1.650-1	1.679-1			2.417-1	8.661-2	7.543-6	
2.075-5	6.573-1	6.649-1	1.666-1	1.650-1	1.609-1			2.317-1	8.306-2	7.346-6	
2.277-5	6.575-1	6.651-1	1.666-1	1.650-1	1.557-1			2.242-1	8.038-2	7.205-6	
2.417-5	6.577-1	6.652-1	1.665-1	1.650-1	1.513-1			2.175-1	7.816-2	7.087-6	
2.561-5	6.579-1	6.654-1	1.665-1	1.650-1	1.470-1			2.117-1	7.593-2	6.970-6	
2.710-5	6.580-1	6.656-1	1.664-1	1.650-1	1.432-1			2.062-1	7.400-2	6.877-6	
2.862-5	6.581-1	6.657-1	1.664-1	1.650-1	1.407-1			2.027-1	7.274-2	6.823-6	
2.940-5	6.582-1	6.658-1	1.664-1	1.650-1	1.383-1			1.992-1	7.150-2	6.772-6	
3.059-5	6.584-1	6.659-1	1.663-1	1.650-1	1.342-1			1.932-1	6.938-2	6.685-6	
3.345-5	6.589-1	6.661-1	1.663-1	1.650-1	1.297-1			1.868-1	6.708-2	6.601-6	
3.601-5	6.587-1	6.663-1	1.663-1	1.650-1	1.254-1			1.805-1	6.487-2	6.527-6	
3.866-5	6.589-1	6.664-1	1.662-1	1.650-1	1.217-1			1.753-1	6.298-2	6.464-6	
4.048-5	6.590-1	6.666-1	1.662-1	1.650-1	1.190-1			1.713-1	6.156-2	6.421-6	
4.234-5	6.590-1	6.666-1	1.662-1	1.650-1	1.170-1			1.685-1	6.057-2	6.396-6	
4.329-5	6.592-1	6.667-1	1.661-1	1.650-1	1.144-1			1.647-1	5.921-2	6.362-6	
4.619-5	6.593-1	6.668-1	1.661-1	1.650-1	1.120-1			1.612-1	5.796-2	6.337-6	
4.717-5	6.593-1	6.669-1	1.661-1	1.650-1	1.105-1			1.591-1	5.720-2	6.333-6	
4.918-5	6.594-1	6.670-1	1.661-1	1.650-1	1.084-1			1.562-1	5.615-2	6.327-6	
5.123-5	6.595-1	6.671-1	1.661-1	1.650-1	1.064-1			1.532-1	5.509-2	6.321-6	
5.332-5	6.596-1	6.672-1	1.660-1	1.650-1	1.037-1			1.494-1	5.373-2	6.312-6	
5.654-5	6.597-1	6.673-1	1.660-1	1.650-1	1.016-1			1.463-1	5.262-2	6.304-6	
5.763-5	6.598-1	6.674-1	1.660-1	1.650-1	9.938-2			1.431-1	5.149-2	6.296-6	
6.097-5	6.598-1	6.675-1	1.660-1	1.650-1	9.691-2			1.395-1	5.022-2	6.290-6	
6.325-5	6.599-1	6.675-1	1.660-1	1.650-1	9.507-2			1.369-1	4.927-2	6.308-6	
6.557-5	6.600-1	6.676-1	1.659-1	1.650-1	9.367-2			1.349-1	4.895-2	6.315-6	
6.674-5	6.601-1	6.677-1	1.659-1	1.650-1	9.176-2			1.321-1	4.755-2	6.323-6	
7.034-5	6.601-1	6.677-1	1.659-1	1.650-1	8.983-2			1.294-1	4.657-2	6.332-6	
7.155-5	6.602-1	6.678-1	1.659-1	1.650-1	8.799-2			1.267-1	4.562-2	6.346-6	
7.527-5	6.603-1	6.679-1	1.659-1	1.650-1	8.606-2			1.239-1	4.463-2	6.360-6	
7.780-5	6.603-1	6.679-1	1.659-1	1.650-1	8.492-2			1.223-1	4.404-2	6.403-6	
7.906-5	6.604-1	6.680-1	1.659-1	1.650-1	8.375-2			1.206-1	4.343-2	6.425-6	
8.167-5	6.604-1	6.681-1	1.659-1	1.650-1	8.218-2			1.183-1	4.262-2	6.455-6	
8.431-5	6.605-1	6.681-1	1.659-1	1.650-1	8.018-2			1.155-1	4.159-2	6.492-6	
8.634-5	6.606-1	6.682-1	1.659-1	1.650-1	7.816-2			1.125-1	4.055-2	6.529-6	

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ATOMIC WEIGHT		5.8689* 1		DENSITY						8.8988* 2 GRAMS/CC	
ENERGY		HF (CM)		CROSS SECTION (BARNS)						ENERGY DEPOSIT (MEV)	
MEV		TOTAL		TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	6.607-1	6.683-1	1.658-1	1.650-1	7.670-2	1.104-1	3.979-2	6.568-6			
9.366-5	6.607-1	6.683-1	1.658-1	1.650-1	7.526-2	1.084-1	3.905-2	6.609-6			
9.668-5	6.608-1	6.684-1	1.657-1	1.650-1	7.418-2	1.066-1	3.849-2	6.639-6			
9.811-5	6.608-1	6.684-1	1.657-1	1.650-1	7.290-2	1.050-1	3.783-2	6.689-6			
1.025-4	6.609-1	6.685-1	1.657-1	1.650-1	7.108-2	1.023-1	3.689-2	6.827-6			
1.099-4	6.610-1	6.686-1	1.657-1	1.650-1	6.899-2	9.934-2	3.581-2	7.014-6			
1.176-4	6.610-1	6.687-1	1.657-1	1.650-1	6.714-2	9.668-2	3.486-2	7.220-6			
1.256-4	6.611-1	6.687-1	1.657-1	1.650-1	6.523-2	9.394-2	3.387-2	7.431-6			
1.339-4	6.612-1	6.688-1	1.656-1	1.650-1	6.351-2	9.146-2	3.298-2	7.627-6			
1.406-4	6.612-1	6.689-1	1.656-1	1.650-1	6.184-2	8.905-2	3.212-2	7.866-6			
1.511-4	6.613-1	6.690-1	1.656-1	1.650-1	5.998-2	8.638-2	3.116-2	8.135-6			
1.601-4	6.614-1	6.690-1	1.656-1	1.650-1	5.825-2	8.388-2	3.026-2	8.386-6			
1.694-4	6.615-1	6.691-1	1.656-1	1.650-1	5.671-2	8.167-2	2.946-2	8.655-6			
1.789-4	6.615-1	6.692-1	1.656-1	1.650-1	5.525-2	7.956-2	2.871-2	8.935-6			
1.887-4	6.616-1	6.692-1	1.655-1	1.650-1	5.375-2	7.740-2	2.793-2	9.221-6			
1.988-4	6.616-1	6.693-1	1.655-1	1.650-1	5.244-2	7.551-2	2.725-2	9.526-6			
2.091-4	6.618-1	6.694-1	1.655-1	1.650-1	5.059-2	7.389-2	2.656-2	9.859-6			
2.241-4	6.620-1	6.696-1	1.654-1	1.650-1	4.870-2	7.204-2	2.577-2	1.0254-5			
2.367-4	6.621-1	6.697-1	1.654-1	1.650-1	4.687-2	7.056-2	2.416-2	1.0427-5			
3.811-4	6.622-1	6.699-1	1.654-1	1.650-1	3.715-2	5.350-2	1.933-2	1.6661-5			
4.704-4	6.623-1	6.700-1	1.653-1	1.650-1	3.466-2	4.992-2	1.805-2	1.894-5			
4.981-4	6.624-1	6.701-1	1.653-1	1.650-1	3.292-2	4.741-2	1.714-2	2.1094-5			
5.658-4	6.625-1	6.701-1	1.653-1	1.650-1	3.136-2	4.515-2	1.633-2	2.184-5			
6.111-4	6.625-1	6.702-1	1.653-1	1.650-1	3.040-2	4.378-2	1.584-2	2.301-5			
6.311-4	6.625-1	6.702-1	1.653-1	1.650-1	2.934-2	4.225-2	1.529-2	2.488-5			
7.156-4	6.626-1	6.703-1	1.653-1	1.650-1	2.775-2	3.996-2	1.447-2	2.818-5			
8.322-4	6.627-1	6.703-1	1.653-1	1.650-1	2.625-2	3.779-2	1.369-2	3.157-5			
9.177-4	6.627-1	6.704-1	1.652-1	1.650-1	2.490-2	3.585-2	1.299-2	3.539-5			
1.058-3	6.628-1	6.702-1	1.653-1	1.650-1	2.327-2	4.215-2	1.527-2	4.287-5			
1.307-3	6.628-1	6.705-1	1.652-1	1.650-1	2.224-2	3.202-2	1.162-2	5.093-5			
1.581-3	6.629-1	6.706-1	1.652-1	1.650-1	2.069-2	2.978-2	1.083-2	5.608-5			
1.882-3	6.629-1	6.706-1	1.652-1	1.650-1	2.035-2	2.930-2	1.066-2	7.147-5			
2.208-3	6.530-1	6.604-1	1.677-1	1.652-1	2.518-1	3.627-1	1.292-1	1.1221-4			
2.561-3	6.543-1	6.523-1	1.698-1	1.696-1	2.076-2	2.989-2	1.061-2	2.9586-5			
2.940-3	6.586-1	6.066-1	1.826-1	1.824-1	2.270-2	3.269-2	1.079-2	1.095-4			
3.345-3	6.579-1	5.239-1	2.115-1	2.112-1	2.696-2	3.883-2	1.109-2	1.241-4			
3.777-3	6.054-1	4.101-1	2.701-1	2.698-1	3.399-2	4.895-2	1.096-2	1.394-4			
4.234-3	3.881-1	3.926-1	2.822-1	2.810-1	1.140-1	1.642-1	3.491-2	1.975-4			
5.763-3	8.146-1	8.239-1	1.344-1	1.332-1	1.279-1	1.843-1	8.209-2	2.861-4			
7.527-3	1.211-1	1.225-1	9.043-0	9.010-0	3.357-2	4.835-2	3.224-2	3.334-4			
1.026-2	2.921-1	2.954-1	3.750-1	3.723-1	2.711-1	3.910-1	6.270-2	5.689-4			
1.511-2	1.872-1	1.893-1	5.891-1	5.864-1	9.285-2	1.339-1	1.424-2	5.959-4			
2.091-2	6.225-1	6.297-1	1.753-1	1.752-1	7.449-2	1.074-1	3.726-2	8.769-4			
2.646-2	6.250-1	6.335-1	1.752-1	1.739-1	1.298-1	1.873-1	6.484-2	1.187-3			
3.267-2	8.942-1	9.138-1	1.225-1	1.215-1	9.748-2	1.407-1	6.984-2	1.457-3			
3.953-2	1.199-1	1.237-1	9.136-0	9.116-0	2.085-2	2.995-2	2.102-2	1.503-3			
4.704-2	1.894-1	1.931-1	5.908-1	5.809-1	9.676-2	1.426-1	1.461-2	1.251-3			
5.761-2	6.098-1	6.369-1	1.786-1	1.794-1	2.151-2	3.007-2	1.274-2	2.191-3			
7.022-2	8.645-1	8.993-1	1.267-1	1.262-1	4.657-2	6.722-2	3.423-2	2.744-3			
8.322-2	1.046-1	1.084-1	1.047-1	1.046-1	1.559-2	6.221-2	3.1072-2	3.110-3			
9.991-2	1.901-1	1.960-1	5.761-1	5.739-1	2.241-2	3.209-2	3.713-2	4.127-3			
1.307-1	2.001-1	2.081-1	5.473-1	5.454-1	1.884-2	2.679-2	3.453-2	5.556-3			
1.820-1	2.124-1	2.275-1	5.157-1	5.144-1	1.296-2	1.806-2	2.739-2	6.607-3			
2.075-1	1.632-1	1.786-1	5.712-1	5.700-1	1.255-2	1.735-2	2.287-2	7.627-3			
2.417-1	2.324-1	2.603-1	4.716-1	4.703-1	1.271-2	1.742-2	3.038-2	8.385-3			
2.710-1	1.745-1	1.951-1	6.275-1	6.263-1	1.280-2	1.754-2	2.577-2	9.270-3			
2.940-1	2.421-1	2.665-1	4.524-1	4.511-1	1.255-2	1.705-2	3.290-2	1.055-2			
3.245-1	2.467-1	2.773-1	4.439-1	4.425-1	1.380-2	1.890-2	3.647-2	1.131-2			
3.777-1	3.629-1	4.463-1	3.018-1	3.007-1	1.059-2	1.381-2	3.992-2	1.260-2			
4.234-1	2.495-1	2.975-1	4.389-1	4.377-1	1.204-2	1.575-2	2.558-2	1.426-2			
5.135-1	1.136-1	3.955-0	3.432-1	3.481-1	1.175-2	1.460-2	4.222-2	1.727-2			
6.325-1	1.254-1	3.950-0	3.365-1	3.355-1	1.034-2	1.219-2	4.198-2	1.994-2			

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ATOMIC WEIGHT 5.8689+1		DENSITY 8.8988+0 GRAMS/CC									
ENERGY MEV	NFP (CM)		CROSS SECTION (BARNs)						ENERGY DEPOSIT (MEV)		
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM PROD.	TOTAL	LOCAL		
7.527+1	3.390+0	4.368+0	3.231+0	3.221+0	1.038+2			4.639+2	2.444+2		
8.83+1	3.381+0	4.380+0	3.239+0	3.228+0	1.144+2			5.068+2	2.762+2		
1.025+0	3.534+0	4.657+0	3.099+0	3.085+0	1.341+2			5.240+2	3.371+2		
1.176+0	3.181+0	3.878+0	3.443+0	3.420+0	1.572+2	6.417+3	1.917+2	6.656+2	3.984+2		
1.338+0	3.223+0	3.884+0	3.398+0	3.253+0	1.934+2	1.239+1	1.365+1	1.169+1	4.762+2		
1.511+0	3.441+0	4.399+0	3.182+0	2.622+0	2.335+2	3.368+1	3.483+1	2.206+1	4.752+2		
1.694+0	3.516+0	4.958+0	3.115+0	2.647+0	3.015+2	4.381+1	4.461+1	2.787+1	5.026+2		
1.887+0	3.587+0	4.653+0	3.053+0	2.460+0	3.922+2	5.541+1	5.638+1	3.493+1	5.641+2		
2.091+0	3.490+0	4.776+0	3.132+0	2.473+0	5.337+2	6.060+1	6.311+1	3.841+1	6.447+2		
2.305+0	3.378+0	4.601+0	3.242+0	2.437+0	7.815+2	7.273+1	8.209+1	4.713+1	7.567+2		
2.530+0	3.380+0	4.522+0	3.230+0	2.303+0	1.023+3	8.245+1	9.959+1	5.671+1	8.347+2		
2.741+0	3.249+0	4.677+0	3.371+0	2.317+0	1.379+3	9.162+1	1.206+2	6.655+1	9.238+2		
3.011+0	3.345+0	4.902+0	3.274+0	2.061+0	1.598+3	1.053+2	1.594+2	8.694+1	1.057+3		
3.267+0	3.145+0	4.641+0	3.482+0	2.159+0	1.944+3	1.129+2	1.751+2	9.754+1	1.180+3		
3.523+0	3.123+0	4.697+0	3.507+0	2.069+0	2.443+3	1.193+2	1.927+2	1.145+2	1.382+3		
3.811+0	3.123+0	4.790+0	3.565+0	2.033+0	2.730+3	1.230+2	2.216+2	1.289+2	1.552+3		
4.069+0	3.096+0	4.760+0	3.538+0	1.991+0	3.068+3	1.240+2	2.658+2	1.403+2	1.742+3		
4.396+0	3.081+0	4.897+0	3.555+0	2.002+0	3.282+3	1.225+2	2.842+2	1.491+2	1.905+3		
4.704+0	3.109+0	5.086+0	3.522+0	1.971+0	3.496+3	1.201+2	3.014+2	1.594+2	2.086+3		
4.991+0	3.029+0	5.153+0	3.617+0	2.054+0	3.912+3	1.171+2	3.222+2	1.678+2	2.309+3		
5.353+0	3.065+0	5.296+0	3.572+0	2.001+0	4.353+3	1.137+2	3.395+2	1.838+2	2.636+3		
5.616+0	3.019+0	5.374+0	3.627+0	2.056+0	4.695+3	1.102+2	3.595+2	1.950+2	2.881+3		
6.042+0	3.030+0	5.519+0	3.614+0	2.045+0	5.010+3	1.063+2	3.777+2	2.093+2	3.187+3		
6.367+0	3.023+0	5.555+0	3.625+0	2.060+0	5.257+3	1.037+2	3.938+2	2.209+2	3.464+3		
6.737+0	3.043+0	5.632+0	3.599+0	2.051+0	5.461+3	1.024+2	4.122+2	2.357+2	3.749+3		
7.156+0	3.078+0	5.752+0	3.556+0	2.035+0	5.608+3	9.522+1	4.310+2	2.511+2	4.022+3		
7.506+0	3.108+0	5.877+0	3.524+0	2.029+0	5.767+3	9.258+1	4.465+2	2.650+2	4.360+3		
7.910+0	3.133+0	6.003+0	3.495+0	2.030+0	5.797+3	8.857+1	4.580+2	2.783+2	4.657+3		
8.322+0	3.201+0	6.151+0	3.422+0	1.976+0	5.926+3	8.551+1	4.692+2	2.922+2	5.001+3		
8.787+0	3.246+0	6.273+0	3.373+0	1.939+0	6.005+3	8.338+1	4.733+2	3.105+2	5.426+3		
9.177+0	3.307+0	6.410+0	3.312+0	1.874+0	6.063+3	8.119+1	4.766+2	3.269+2	5.820+3		
9.655+0	3.378+0	6.583+0	3.242+0	1.805+0	6.077+3	7.902+1	4.801+2	3.448+2	6.245+3		
1.012+1	3.436+0	6.660+0	3.187+0	1.789+0	6.071+3	7.914+1	4.105+2	3.623+2	6.683+3		
1.058+1	3.494+0	6.687+0	3.134+0	1.732+0	6.014+3	8.016+1	4.009+2	3.785+2	7.103+3		
1.101+1	3.571+0	6.733+0	3.067+0	1.665+0	5.916+3	8.103+1	3.906+2	3.968+2	7.544+3		
1.155+1	3.661+0	6.804+0	2.991+0	1.594+0	5.747+3	8.223+1	3.800+2	4.146+2	8.031+3		
1.199+1	3.748+0	6.868+0	2.922+0	1.529+0	5.504+3	8.422+1	3.629+2	4.283+2	8.422+3		
1.250+1	3.830+0	6.916+0	2.859+0	1.476+0	5.109+3	8.689+1	3.361+2	4.362+2	8.709+3		
1.307+1	3.909+0	6.961+0	2.801+0	1.435+0	4.684+3	8.978+1	3.105+2	4.425+2	8.948+3		
1.354+1	3.976+0	6.996+0	2.755+0	1.399+0	4.347+3	9.211+1	2.908+2	4.465+2	9.126+3		
1.386+1	4.031+0	7.028+0	2.717+0	1.368+0	4.100+3	9.384+1	2.728+2	4.504+2	9.275+3		
1.413+1	4.081+0	7.071+0	2.683+0	1.340+0	3.894+3	9.536+1	2.561+2	4.547+2	9.435+3		
1.441+1	4.130+0	7.138+0	2.651+0	1.315+0	3.689+3	9.600+1	2.400+2	4.586+2	9.592+3		
1.468+1	4.182+0	7.240+0	2.613+0	1.289+0	3.386+3	9.836+1	2.259+2	4.619+2	9.763+3		
1.519+1	4.273+0	7.382+0	2.563+0	1.257+0	3.069+3	9.997+1	2.159+2	4.688+2	1.009+4		
1.575+1	4.347+0	7.530+0	2.519+0	1.229+0	2.767+3	1.013+2	2.058+2	4.765+2	1.048+4		
1.633+1	4.413+0	7.649+0	2.482+0	1.208+0	2.576+3	1.016+2	2.057+2	4.880+2	1.099+4		
1.692+1	4.455+0	7.739+0	2.452+0	1.193+0	2.417+3	1.016+2	2.056+2	4.999+2	1.155+4		
1.752+1	4.515+0	7.910+0	2.426+0	1.177+0	2.291+3	1.020+2	2.055+2	5.144+2	1.221+4		
1.813+1	4.555+0	8.032+0	2.404+0	1.156+0	2.185+3	1.029+2	2.054+2	5.247+2	1.289+4		
1.875+1	4.607+0	8.165+0	2.377+0	1.122+0	2.064+3	1.049+2	2.052+2	5.378+2	1.359+4		
2.000+1											
RESONANCE INTEGRALS			2.429+2	2.372+2	3.275+0	2.359+0	1.015+1				
MAXWELLIAN AVERAGES			2.059+1	1.650+1	4.091+0		5.892+0				
1/E AVERAGES			1.387+1	1.355+1	1.871+1	1.348+1	5.798+1				
FISSION AVERAGES			3.651+0	3.094+0	9.976+2	4.568+1	8.312+1				
FUSION AVERAGES			2.710+0	1.362+0	4.060+0	9.413+1	2.825+0				

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ATOMIC WEIGHT 57.935 ± 1		DENSITY 8.7895 ± 0.0005 g/cm ³								
ENERGY		TFF (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	3.777-1	3.802-1	2.899-1	1.650-1	1.249-1	1.799-1	3.671-0	2.975-4		
5.227-9	4.791-1	4.831-1	2.286-1	1.650-1	1.359-1	9.156-0	2.370-0	2.013-5		
2.091-8	5.265-1	5.314-1	2.080-1	1.650-1	1.430-1	6.191-0	1.761-0	1.573-5		
1.267-8	5.465-1	5.518-1	2.004-1	1.650-1	1.539-1	5.096-0	1.505-0	1.393-5		
4.704-8	5.671-1	5.731-1	1.930-1	1.650-1	1.600-1	4.031-0	1.236-0	1.183-5		
8.322-8	5.650-1	5.921-1	1.869-1	1.650-1	1.108-1	3.150-0	9.973-1	1.006-5		
1.327-7	5.986-1	6.049-1	1.830-1	1.650-1	1.796-1	2.586-0	9.364-1	8.860-5		
1.982-7	6.075-1	6.140-1	1.803-1	1.650-1	1.526-1	2.197-0	7.212-1	8.004-5		
2.561-7	6.145-1	6.210-1	1.783-1	1.650-1	1.328-1	1.911-0	6.344-1	7.359-5		
3.345-7	6.196-1	6.264-1	1.767-1	1.650-1	1.174-1	1.690-0	5.659-1	6.861-5		
4.234-7	6.233-1	6.302-1	1.751-1	1.650-1	1.070-1	1.541-0	5.189-1	6.503-5		
5.123-7	6.285-1	6.355-1	1.742-1	1.650-1	9.237-1	1.329-0	4.515-1	6.004-5		
7.527-7	6.348-1	6.419-1	1.725-1	1.650-1	7.527-1	1.083-0	3.715-1	5.417-5		
1.176-6	6.391-1	6.463-1	1.714-1	1.650-1	6.362-1	9.152-1	3.161-1	5.012-5		
1.511-6	6.421-1	6.494-1	1.705-1	1.650-1	5.544-1	7.975-1	2.768-1	4.729-5		
2.091-6	6.450-1	6.523-1	1.689-1	1.650-1	4.794-1	6.894-1	2.403-1	4.472-5		
2.741-6	6.472-1	6.546-1	1.672-1	1.650-1	4.207-1	6.050-1	2.116-1	4.274-5		
3.533-6	6.492-1	6.567-1	1.657-1	1.650-1	3.667-1	5.300-1	1.860-1	4.104-5		
4.704-6	6.507-1	6.582-1	1.643-1	1.650-1	3.295-1	4.735-1	1.666-1	3.983-5		
5.650-6	6.518-1	6.593-1	1.630-1	1.650-1	3.010-1	4.325-1	1.524-1	3.899-5		
6.377-6	6.529-1	6.604-1	1.617-1	1.650-1	2.741-1	3.938-1	1.391-1	3.828-5		
8.322-6	6.539-1	6.614-1	1.607-1	1.650-1	2.480-1	3.574-1	1.264-1	3.765-5		
9.622-6	6.546-1	6.622-1	1.603-1	1.650-1	2.301-1	3.304-1	1.170-1	3.723-5		
1.121-5	6.552-1	6.628-1	1.592-1	1.650-1	2.152-1	3.090-1	1.095-1	3.705-5		
1.307-5	6.557-1	6.633-1	1.570-1	1.650-1	2.017-1	2.895-1	1.027-1	3.693-5		
1.468-5	6.560-1	6.637-1	1.569-1	1.650-1	1.931-1	2.772-1	9.835-2	3.690-5		
1.581-5	6.564-1	6.640-1	1.568-1	1.650-1	1.849-1	2.653-1	9.419-2	3.690-5		
1.758-5	6.567-1	6.643-1	1.568-1	1.650-1	1.763-1	2.530-1	8.987-2	3.690-5		
1.882-5	6.570-1	6.646-1	1.567-1	1.650-1	1.694-1	2.429-1	8.634-2	3.698-5		
2.075-5	6.573-1	6.649-1	1.559-1	1.650-1	1.624-1	2.329-1	8.283-2	3.713-5		
2.277-5	6.575-1	6.651-1	1.556-1	1.650-1	1.572-1	2.253-1	8.016-2	3.730-5		
2.477-5	6.576-1	6.653-1	1.555-1	1.650-1	1.528-1	2.190-1	7.795-2	3.744-5		
2.681-5	6.578-1	6.655-1	1.555-1	1.650-1	1.484-1	2.127-1	7.573-2	3.758-5		
2.710-5	6.580-1	6.656-1	1.554-1	1.650-1	1.447-1	2.073-1	7.381-2	3.776-5		
2.862-5	6.581-1	6.657-1	1.554-1	1.650-1	1.422-1	2.037-1	7.295-2	3.781-5		
2.942-5	6.581-1	6.658-1	1.554-1	1.650-1	1.398-1	2.002-1	7.132-2	3.807-5		
3.039-5	6.583-1	6.660-1	1.554-1	1.650-1	1.356-1	1.943-1	6.922-2	3.834-5		
3.159-5	6.585-1	6.662-1	1.553-1	1.650-1	1.311-1	1.877-1	6.692-2	3.871-5		
3.601-5	6.587-1	6.663-1	1.553-1	1.650-1	1.268-1	1.815-1	6.473-2	3.910-5		
3.865-5	6.588-1	6.665-1	1.552-1	1.650-1	1.231-1	1.762-1	6.285-2	3.943-5		
4.048-5	6.589-1	6.666-1	1.552-1	1.650-1	1.203-1	1.722-1	6.143-2	3.971-5		
4.234-5	6.590-1	6.667-1	1.552-1	1.650-1	1.184-1	1.694-1	6.044-2	3.993-5		
4.529-5	6.591-1	6.668-1	1.552-1	1.650-1	1.157-1	1.655-1	5.908-2	4.024-5		
4.619-5	6.592-1	6.669-1	1.551-1	1.650-1	1.133-1	1.620-1	5.784-2	4.056-5		
4.717-5	6.593-1	6.669-1	1.551-1	1.650-1	1.118-1	1.595-1	5.708-2	4.082-5		
4.916-5	6.593-1	6.670-1	1.551-1	1.650-1	1.098-1	1.569-1	5.605-2	4.111-5		
5.123-5	6.594-1	6.671-1	1.551-1	1.650-1	1.077-1	1.540-1	5.499-2	4.116-5		
5.332-5	6.595-1	6.672-1	1.551-1	1.650-1	1.051-1	1.501-1	5.364-2	4.118-5		
5.554-5	6.596-1	6.673-1	1.550-1	1.650-1	1.029-1	1.470-1	5.254-2	4.120-5		
5.783-5	6.597-1	6.674-1	1.550-1	1.650-1	1.007-1	1.438-1	5.141-2	4.121-5		
6.027-5	6.598-1	6.675-1	1.550-1	1.650-1	9.821-2	1.403-1	5.014-2	4.125-5		
6.225-5	6.599-1	6.676-1	1.550-1	1.650-1	9.636-2	1.376-1	4.920-2	4.128-5		
6.557-5	6.599-1	6.676-1	1.550-1	1.650-1	9.495-2	1.356-1	4.848-2	4.131-5		
6.674-5	6.600-1	6.677-1	1.550-1	1.650-1	9.303-2	1.328-1	4.750-2	4.134-5		
7.034-5	6.601-1	6.678-1	1.550-1	1.650-1	9.110-2	1.300-1	4.651-2	4.139-5		
7.155-5	6.602-1	6.679-1	1.550-1	1.650-1	8.925-2	1.274-1	4.557-2	4.142-5		
7.527-5	6.602-1	6.679-1	1.550-1	1.650-1	8.731-2	1.246-1	4.458-2	4.149-5		
7.780-5	6.603-1	6.680-1	1.550-1	1.650-1	8.616-2	1.229-1	4.399-2	4.153-5		
7.900-5	6.603-1	6.680-1	1.550-1	1.650-1	8.499-2	1.212-1	4.339-2	4.157-5		
8.167-5	6.604-1	6.681-1	1.550-1	1.650-1	8.342-2	1.190-1	4.259-2	4.163-5		
8.431-5	6.605-1	6.682-1	1.550-1	1.650-1	8.141-2	1.161-1	4.156-2	4.171-5		
8.834-5	6.605-1	6.683-1	1.550-1	1.650-1	7.938-2	1.131-1	4.052-2	4.178-5		

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ATOMIC WEIGHT		5.7935+1		DENSITY		8.7845+0 GRAMS/CC	
ENERGY		MFP (CM)		CROSS SECTION (BARNs)		ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER
9.10E-5	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
9.38E-5	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
9.66E-5	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
9.91E-5	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.02E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.09E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.17E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.25E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.33E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.40E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.51E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.60E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.69E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.79E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.88E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.98E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
2.09E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
2.74E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
3.26E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
3.91E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
4.70E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
4.99E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
5.65E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
6.04E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
6.36E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
7.15E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
8.32E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
9.17E-4	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.05E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.30E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.59E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.88E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
2.20E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
2.55E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
2.94E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
3.34E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
3.77E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
4.23E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
5.75E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
7.52E-3	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.02E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.51E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
2.09E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
2.64E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
3.26E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
3.95E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
4.70E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
5.76E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
7.00E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
8.32E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
9.89E-2	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.30E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.82E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
2.47E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
3.24E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
4.15E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
5.23E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
6.51E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
8.00E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
9.74E-1	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1
1.18E	5	6.60E-1	6.60E-1	1.65E+1	1.65E+1	7.79E-2	1.11E-1

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ENDL 175 Group Neutron Constants

28-Ni-58

ATOMIC WEIGHT 5.7935+ 1

DENSITY 8.7845+ 0 GRAMS/CC

ENERGY MEV	MFP (CM)		CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527- 1	3.460+ 0	4.066+ 0	3.165+ 0	3.154+ 0	1.104- 2		1.194- 2	4.965- 2	2.657- 2
8.834- 1	3.371+ 0	3.926+ 0	3.249+ 0	3.237+ 0	1.159- 2		1.214- 2	5.361- 2	3.070- 2
1.025+ 0	3.583+ 0	4.226+ 0	3.056+ 0	3.039+ 0	1.795- 2		1.423- 2	6.616- 2	3.632- 2
1.176+ 0	3.421+ 0	4.104+ 0	3.202+ 0	3.175+ 0	2.714- 2		1.631- 2	7.703- 2	4.190- 2
1.339+ 0	3.315+ 0	4.051+ 0	3.303+ 0	3.267+ 0	3.563- 2	6.514- 4	1.681- 2	8.550- 2	4.747- 2
1.511+ 0	3.315+ 0	4.077+ 0	3.304+ 0	3.079+ 0	4.463- 2		1.803- 1	1.390- 1	5.278- 2
1.694+ 0	3.315+ 0	4.099+ 0	3.304+ 0	2.892+ 0	5.415- 2		3.573- 1	3.649- 1	2.648- 1
1.887+ 0	3.315+ 0	4.152+ 0	3.304+ 0	2.807+ 0	6.524- 2		4.320- 1	5.932- 1	3.104- 1
2.031+ 0	3.319+ 0	4.216+ 0	3.299+ 0	2.728+ 0	8.489- 2		4.866- 1	7.552- 1	3.554- 1
2.305+ 0	3.744+ 0	4.727+ 0	2.925+ 0	2.187+ 0	1.075- 1	6.312- 1	9.080- 1	4.922+ 1	8.859- 2
2.530+ 0	3.763+ 0	4.756+ 0	2.910+ 0	2.025+ 0	1.507- 1	7.349- 1	1.066+ 0	6.883- 1	1.034+ 1
2.741+ 0	3.444+ 0	4.375+ 0	3.180+ 0	2.110+ 0	1.380- 1	6.380- 1	1.230+ 0	9.621- 1	1.269- 1
3.011+ 0	3.164+ 0	4.037+ 0	3.422+ 0	2.139+ 0	3.211- 1	1.002+ 0	1.493+ 0	1.236+ 0	1.492- 1
3.267+ 0	3.192+ 0	4.283+ 0	3.431+ 0	1.963+ 0	2.746- 1	1.193+ 0	1.797+ 0	1.441+ 0	1.420- 1
3.533+ 0	3.181+ 0	4.575+ 0	3.443+ 0	1.927+ 0	2.689- 1	1.247+ 0	2.123+ 0	1.563+ 0	1.439- 1
3.811+ 0	3.134+ 0	4.956+ 0	3.495+ 0	1.984+ 0	3.732- 1	1.137+ 0	2.448+ 0	1.644+ 0	1.770- 1
4.069+ 0	3.072+ 0	5.235+ 0	3.564+ 0	2.045+ 0	4.274- 1	1.092+ 0	2.889+ 0	1.733+ 0	2.018- 1
4.396+ 0	3.005+ 0	5.196+ 0	3.644+ 0	2.109+ 0	4.812- 1	1.054+ 0	3.334+ 0	1.835+ 0	2.302- 1
4.704+ 0	2.945+ 0	5.164+ 0	3.719+ 0	2.169+ 0	5.315- 1	1.018+ 0	3.548+ 0	1.931+ 0	2.577- 1
4.991+ 0	2.927+ 0	5.189+ 0	3.742+ 0	2.191+ 0	5.744- 1	9.760- 1	3.764+ 0	2.042+ 0	2.878- 1
5.353+ 0	2.951+ 0	5.286+ 0	3.712+ 0	2.175+ 0	6.075- 1	9.293- 1	3.966+ 0	2.164+ 0	3.197- 1
5.658+ 0	2.976+ 0	5.379+ 0	3.680+ 0	2.157+ 0	6.416- 1	8.812- 1	4.215+ 0	2.292+ 0	3.546- 1
6.042+ 0	2.999+ 0	5.476+ 0	3.652+ 0	2.140+ 0	6.647- 1	8.477- 1	4.377+ 0	2.426+ 0	3.874- 1
6.387+ 0	3.019+ 0	5.548+ 0	3.626+ 0	2.122+ 0	6.783- 1	8.269- 1	4.481+ 0	2.559+ 0	4.171- 1
6.737+ 0	3.043+ 0	5.631+ 0	3.599+ 0	2.101+ 0	6.937- 1	8.038- 1	4.596+ 0	2.713+ 0	4.521- 1
7.156+ 0	3.077+ 0	5.718+ 0	3.553+ 0	2.065+ 0	7.086- 1	7.859- 1	4.685+ 0	2.881+ 0	4.885- 1
7.548+ 0	3.111+ 0	5.798+ 0	3.520+ 0	2.027+ 0	7.221- 1	7.708- 1	4.760+ 0	3.041+ 0	5.237- 1
7.910+ 0	3.146+ 0	5.871+ 0	3.481+ 0	1.988+ 0	7.338- 1	7.585- 1	4.825+ 0	3.211+ 0	5.605- 1
8.322+ 0	3.187+ 0	5.946+ 0	3.437+ 0	1.945+ 0	7.421- 1	7.500- 1	4.869+ 0	3.343+ 0	6.027- 1
8.767+ 0	3.232+ 0	6.039+ 0	3.389+ 0	1.902+ 0	7.492- 1	7.377- 1	4.905+ 0	3.416+ 0	6.475- 1
9.177+ 0	3.309+ 0	6.230+ 0	3.310+ 0	1.858+ 0	7.497- 1	7.021- 1	4.891+ 0	3.491+ 0	6.967- 1
9.665+ 0	3.400+ 0	6.466+ 0	3.221+ 0	1.810+ 0	7.487- 1	6.625- 1	4.867+ 0	3.573+ 0	7.540- 1
1.012+ 1	3.455+ 0	6.490+ 0	3.170+ 0	1.747+ 0	7.411- 1	6.817- 1	4.843+ 0	3.680+ 0	8.052- 1
0.058+ 1	3.495+ 0	6.364+ 0	3.133+ 0	1.680+ 0	7.313- 1	7.219- 1	4.820+ 0	3.806+ 0	8.555- 1
0.01+ 1	3.543+ 0	6.332+ 0	3.091+ 0	1.622+ 0	7.151- 1	7.540+ 0	4.775+ 0	3.955+ 0	9.046- 1
0.005+ 1	3.595+ 0	6.315+ 0	3.046+ 0	1.573+ 0	6.946- 1	7.785+ 0	4.712+ 0	4.113+ 0	9.496- 1
1.199+ 1	3.682+ 0	6.371+ 0	2.974+ 0	1.513+ 0	6.586- 1	8.024+ 0	4.652+ 0	4.241+ 0	9.954- 1
1.250+ 1	3.795+ 0	6.449+ 0	2.894+ 0	1.433+ 0	6.178- 1	8.346+ 0	4.584+ 0	4.405+ 0	1.030+ 0
1.307+ 1	3.871+ 0	6.459+ 0	2.829+ 0	1.359+ 0	5.971- 1	8.622+ 0	4.517+ 0	4.605+ 0	1.085+ 0
1.354+ 1	3.931+ 0	6.493+ 0	2.786+ 0	1.330+ 0	5.765- 1	8.798+ 0	4.467+ 0	4.734+ 0	1.121+ 0
1.386+ 1	3.978+ 0	6.520+ 0	2.753+ 0	1.298+ 0	5.608- 1	8.935+ 0	4.424+ 0	4.833+ 0	1.147+ 0
1.413+ 1	4.037+ 0	6.547+ 0	2.713+ 0	1.259+ 0	5.443- 1	9.092+ 0	4.395+ 0	4.934+ 0	1.174+ 0
1.441+ 1	4.100+ 0	6.577+ 0	2.671+ 0	1.218+ 0	5.274- 1	9.256+ 0	4.361+ 0	5.041+ 0	1.202+ 0
1.468+ 1	4.194+ 0	6.630+ 0	2.611+ 0	1.163+ 0	5.044- 1	9.437+ 0	4.316+ 0	5.134+ 0	1.244+ 0
1.519+ 1	4.267+ 0	6.670+ 0	2.567+ 0	1.126+ 0	4.844+ 1	9.559+ 0	4.304+ 0	5.235+ 0	1.286+ 0
1.575+ 1	4.328+ 0	6.703+ 0	2.530+ 0	1.098+ 0	4.662+ 1	9.664+ 0	4.304+ 0	5.384+ 0	1.340+ 0
1.633+ 1	4.387+ 0	6.727+ 0	2.496+ 0	1.069+ 0	4.477+ 1	9.799+ 0	4.304+ 0	5.524+ 0	1.397+ 0
1.692+ 1	4.449+ 0	6.753+ 0	2.462+ 0	1.039+ 0	4.288+ 1	9.940+ 0	4.304+ 0	5.669+ 0	1.444+ 0
1.752+ 1	4.513+ 0	6.780+ 0	2.427+ 0	1.008+ 0	4.096+ 1	1.008+ 0	4.304+ 0	5.825+ 0	1.491+ 0
1.813+ 1	4.580+ 0	6.810+ 0	2.391+ 0	9.778- 1	3.901+ 1	1.023+ 0	4.304+ 0	5.982+ 0	1.540+ 0
1.875+ 1	4.646+ 0	6.869+ 0	2.337+ 0	9.311- 1	3.605+ 1	1.045+ 0	4.304+ 0	7.104+ 0	1.605+ 0
2.000+ 1									
RESONANCE INTEGRALS			2.365+ 2	2.310+ 2	3.443+ 0	2.087+ 0	1.128+ 1		
MAXWELLIAN AVERAGES			2.041+ 1	1.650+ 1	3.906+ 0		5.624+ 0		
1/C AVERAGES			1.351+ 1	1.320+ 1	1.967+ 1	1.192+ 1	6.445+ 1		
FISSION AVERAGES			3.606+ 0	3.069+ 0	1.418+ 1	3.951+ 1	9.903+ 1		
FUSION AVERAGES			2.738+ 0	1.284+ 0	5.558+ 1	9.986+ 1	4.421+ 0		

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ENDL 175 Group Neutron Constants

29-Cu-Nat

ATOMIC WEIGHT 6.3500+1

DENSITY 8.9600+0 GRAMS/CC

ENERGY MEV	MF (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	TOTAL	LOCAL
1.307-9	6.322-1	6.349-1	1.053+0	7.568+0	1.102+1	2.190+0	4.601+0	2.964+4
5.227-9	8.972-1	9.027-1	1.312+0	7.586+0	5.539+0	1.397+1	3.271+0	2.107+4
2.091-8	1.042+0	1.050+0	1.130+0	7.600+0	3.698+0	7.322+0	2.537+0	1.634+4
3.267-8	1.107+0	1.116+0	1.063+0	7.600+0	3.027+0	5.994+0	2.205+0	1.421+4
4.704-8	1.179+0	1.188+0	9.952+0	7.607+0	2.385+0	4.722+0	1.854+0	1.142+4
0.322-9	1.245+0	1.256+0	9.455+0	7.601+0	1.85+0	3.671+0	1.520+0	9.791+5
1.307-7	1.292+0	1.304+0	9.114+0	7.600+0	1.214+0	2.997+0	1.287+0	0.294+5
1.882-7	1.326+0	1.338+0	8.890+0	7.600+0	1.282+0	2.535+0	1.117+0	7.201+5
2.501-7	1.352+0	1.365+0	8.708+0	7.600+0	1.108+0	2.194+0	9.862+1	6.357+5
3.345-7	1.373+0	1.386+0	8.577+0	7.600+0	9.774+1	1.935+0	8.831+1	5.694+5
4.234-7	1.389+0	1.402+0	8.479+0	7.600+0	8.785+1	1.739+0	8.030+1	5.176+5
5.123-7	1.409+0	1.423+0	8.358+0	7.600+0	7.579+1	1.501+0	7.028+1	4.534+5
7.527-7	1.433+0	1.447+0	8.216+0	7.600+0	6.157+1	1.219+0	5.808+1	3.751+5
1.176-6	1.450+0	1.465+0	8.121+0	7.600+0	5.206+1	1.031+0	4.968+1	3.212+5
1.511-6	1.463+0	1.478+0	8.050+0	7.600+0	4.501+1	8.912+1	4.333+1	2.806+5
2.091-6	1.474+0	1.489+0	7.988+0	7.600+0	3.885+1	7.692+1	3.769+1	2.446+5
2.747-6	1.483+0	1.498+0	7.941+0	7.600+0	3.408+1	6.748+1	3.325+1	2.165+5
3.531-6	1.491+0	1.506+0	7.898+0	7.600+0	2.976+1	5.893+1	2.921+1	1.908+5
4.45-6	1.497+0	1.513+0	7.86+0	7.600+0	2.639+1	5.226+1	2.601+1	1.708+5
5.659-6	1.502+0	1.518+0	7.838+0	7.600+0	2.382+1	4.717+1	2.355+1	1.554+5
6.737-6	1.507+0	1.523+0	7.813+0	7.600+0	2.130+1	4.217+1	2.113+1	1.403+5
8.322-6	1.511+0	1.527+0	7.792+0	7.600+0	1.922+1	3.806+1	1.912+1	1.280+5
9.620-6	1.515+0	1.530+0	7.775+0	7.600+0	1.746+1	3.457+1	1.740+1	1.175+5
1.101-5	1.519+0	1.535+0	7.750+0	7.600+0	1.591+1	2.973+1	1.501+1	1.026+5
1.307-5	1.524+0	1.539+0	7.730+0	7.600+0	1.301+1	2.577+1	1.305+1	9.053+6
1.468-5	1.526+0	1.542+0	7.719+0	7.600+0	1.191+1	2.359+1	1.196+1	8.394+6
1.581-5	1.527+0	1.543+0	7.712+0	7.600+0	1.124+1	2.225+1	1.129+1	8.019+6
1.758-5	1.528+0	1.544+0	7.706+0	7.600+0	1.064+1	2.107+1	1.070+1	7.692+6
1.992-5	1.529+0	1.545+0	7.701+0	7.600+0	1.007+1	1.994+1	1.014+1	7.393+6
2.075-5	1.531+0	1.547+0	7.693+0	7.600+0	9.301+2	1.842+1	9.370+2	6.955+6
2.277-5	1.532+0	1.548+0	7.687+0	7.600+0	8.696+2	1.722+1	9.767+2	6.622+6
2.417-5	1.533+0	1.549+0	7.682+0	7.599+0	8.299+2	1.632+1	8.332+2	6.389+6
2.561-5	1.535+0	1.551+0	7.671+0	7.593+0	7.855+2	1.555+1	7.935+2	6.179+6
2.710-5	1.537+0	1.554+0	7.660+0	7.585+0	7.478+2	1.481+1	7.566+2	5.990+6
2.862-5	1.539+0	1.555+0	7.651+0	7.579+0	7.219+2	1.420+1	7.312+2	5.863+6
2.940-5	1.541+0	1.557+0	7.642+0	7.572+0	6.984+2	1.382+1	7.083+2	5.754+6
3.059-5	1.544+0	1.560+0	7.629+0	7.561+0	6.705+2	1.320+1	6.812+2	5.648+6
3.349-5	1.547+0	1.563+0	7.612+0	7.548+0	6.372+2	1.262+1	6.488+2	5.524+6
3.601-5	1.550+0	1.567+0	7.595+0	7.534+0	6.079+2	1.204+1	6.203+2	5.428+6
3.806-5	1.553+0	1.570+0	7.581+0	7.522+0	5.855+2	1.159+1	5.986+2	5.364+6
4.048-5	1.556+0	1.572+0	7.569+0	7.512+0	5.672+2	1.123+1	5.807+2	5.310+6
4.234-5	1.558+0	1.574+0	7.560+0	7.505+0	5.543+2	1.098+1	5.682+2	5.276+6
4.328-5	1.560+0	1.577+0	7.549+0	7.495+0	5.398+2	1.059+1	5.542+2	5.251+6
4.619-5	1.562+0	1.579+0	7.537+0	7.484+0	5.251+2	1.040+1	5.400+2	5.224+6
4.717-5	1.564+0	1.581+0	7.528+0	7.476+0	5.139+2	1.017+1	5.290+2	5.202+6
4.918-5	1.567+0	1.584+0	7.515+0	7.466+0	4.963+2	9.826+2	5.118+2	5.157+6
5.123-5	1.570+0	1.586+0	7.501+0	7.455+0	4.833+2	9.293+2	4.849+2	5.043+6
5.332-5	1.573+0	1.590+0	7.484+0	7.440+0	4.347+2	8.606+2	4.501+2	4.893+6
5.654-5	1.576+0	1.593+0	7.470+0	7.428+0	4.106+2	8.129+2	4.260+2	4.799+6
5.763-5	1.579+0	1.596+0	7.456+0	7.417+0	3.871+2	7.665+2	4.024+2	4.700+6
6.097-5	1.583+0	1.600+0	7.439+0	7.402+0	3.605+2	7.141+2	3.758+2	4.616+6
6.325-5	1.586+0	1.603+0	7.424+0	7.390+0	3.410+2	6.751+2	3.560+2	4.556+6
6.557-5	1.589+0	1.605+0	7.413+0	7.381+0	3.274+2	6.483+2	3.423+2	4.518+6
6.674-5	1.592+0	1.609+0	7.399+0	7.368+0	3.105+2	6.147+2	3.252+2	4.477+6
7.034-5	1.595+0	1.612+0	7.385+0	7.355+0	2.968+2	5.876+2	3.115+2	4.460+6
7.155-5	1.598+0	1.615+0	7.371+0	7.342+0	2.883+2	5.709+2	3.032+2	4.445+6
7.527-5	1.601+0	1.619+0	7.353+0	7.325+0	2.769+2	5.500+2	2.920+2	4.418+6
7.790-5	1.604+0	1.621+0	7.342+0	7.315+0	2.721+2	5.387+2	2.872+2	4.404+6
7.909-5	1.606+0	1.623+0	7.331+0	7.305+0	2.665+2	5.276+2	2.817+2	4.385+6
8.167-5	1.609+0	1.627+0	7.317+0	7.291+0	2.589+2	5.126+2	2.743+2	4.369+6
8.431-5	1.614+0	1.631+0	7.298+0	7.273+0	2.504+2	4.957+2	2.659+2	4.350+6
8.834-5	1.618+0	1.635+0	7.279+0	7.255+0	2.421+2	4.793+2	2.578+2	4.304+6

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ENDL 175 Group Neutron Constants

29-Cu-Nat

ATOMIC WEIGHT 63.546 u		DENSITY 8.9600 g GRAMS/CC						
ENERGY		CROSS SECTION (BARNs)				ENERGY DEPOSITION (MEV)		
MEV	CM	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.10E-5	1.621E+0	1.639E+0	7.264E+0	7.240E+0	2.357E-2	4.666E-2	2.515E-2	4.750E-6
9.38E-5	1.625E+0	1.642E+0	7.218E+0	7.225E+0	2.298E-2	4.550E-2	2.458E-2	4.802E-6
9.66E-5	1.627E+0	1.645E+0	7.235E+0	7.214E+0	2.254E-2	4.463E-2	2.414E-2	4.840E-6
9.91E-5	1.630E+0	1.648E+0	7.222E+0	7.200E+0	2.200E-2	4.356E-2	2.361E-2	4.897E-6
1.025E-4	1.635E+0	1.652E+0	7.204E+0	7.183E+0	2.123E-2	4.203E-2	2.289E-2	5.035E-6
1.099E-4	1.639E+0	1.657E+0	7.183E+0	7.162E+0	2.028E-2	4.016E-2	2.189E-2	5.215E-6
1.176E-4	1.645E+0	1.662E+0	7.160E+0	7.141E+0	1.930E-2	3.822E-2	2.089E-2	5.394E-6
1.256E-4	1.650E+0	1.667E+0	7.137E+0	7.119E+0	1.829E-2	3.621E-2	1.986E-2	5.586E-6
1.338E-4	1.655E+0	1.672E+0	7.116E+0	7.099E+0	1.735E-2	3.436E-2	1.891E-2	5.757E-6
1.406E-4	1.660E+0	1.678E+0	7.092E+0	7.075E+0	1.729E-2	3.424E-2	1.890E-2	6.042E-6
1.511E-4	1.665E+0	1.684E+0	7.065E+0	7.048E+0	1.778E-2	3.520E-2	1.950E-2	6.415E-6
1.601E-4	1.672E+0	1.690E+0	7.043E+0	7.023E+0	1.989E-2	3.938E-2	2.189E-2	6.921E-6
1.694E-4	1.675E+0	1.693E+0	7.031E+0	6.999E+0	3.362E-2	6.656E-2	3.706E-2	8.940E-6
1.789E-4	1.673E+0	1.690E+0	7.041E+0	6.971E+0	6.914E-2	1.369E-1	7.611E-2	1.228E-5
1.887E-4	1.663E+0	1.680E+0	7.082E+0	6.944E+0	1.377E-1	2.727E-1	1.507E-1	1.927E-5
1.989E-4	1.650E+0	1.667E+0	7.136E+0	6.917E+0	2.192E-1	4.341E-1	2.391E-1	2.759E-5
2.091E-4	1.629E+0	1.642E+0	6.885E+0	6.877E+0	2.878E-1	5.698E-1	2.516E-1	3.104E-5
2.241E-4	1.718E+0	1.736E+0	6.895E+0	6.732E+0	1.234E-1	2.443E-1	1.195E-1	3.328E-5
3.267E-4	1.783E+0	1.802E+0	6.606E+0	6.554E+0	5.204E-2	1.030E-1	6.106E-2	1.747E-5
3.811E-4	1.860E+0	1.879E+0	6.332E+0	6.222E+0	1.099E-1	2.177E-1	1.346E-1	2.899E-5
4.704E-4	1.933E+0	1.953E+0	6.091E+0	5.835E+0	2.565E-1	5.078E-1	3.763E-1	5.542E-5
4.991E-4	1.663E+0	1.680E+0	7.080E+0	6.618E+0	4.622E-1	9.151E-1	5.059E-1	8.248E-5
5.659E-4	6.834E+0	6.904E+0	1.723E+1	1.654E+1	6.869E-1	1.350E+0	3.090E-1	6.009E-5
6.042E-4	1.179E+0	1.191E+0	9.989E+0	9.268E+0	6.992E-1	5.383E+0	5.420E-1	9.536E-5
6.367E-4	1.431E+0	1.445E+0	9.829E+0	6.674E+0	5.817E-1	1.152E+0	5.479E-1	1.214E-4
7.156E-4	1.799E+0	1.816E+0	6.543E+0	6.201E+0	3.480E-1	6.892E-1	4.119E-1	8.913E-5
8.322E-4	1.957E+0	1.978E+0	6.016E+0	5.825E+0	1.912E-1	3.786E-1	2.464E-1	6.913E-5
9.177E-4	2.025E+0	2.082E+0	5.715E+0	5.603E+0	1.126E-1	2.230E-1	1.528E-1	5.664E-5
1.050E-3	1.836E+0	1.856E+0	6.413E+0	5.339E+0	7.452E-2	1.476E-1	9.010E-2	5.583E-5
1.307E-3	7.227E+0	7.305E+0	1.629E+1	1.624E+1	5.574E-2	1.104E+1	2.056E-2	5.131E-5
1.581E-3	4.203E+0	4.247E+0	2.802E+0	2.794E+0	8.413E-2	1.666E-1	2.333E-2	6.012E-5
1.882E-3	3.753E+0	3.793E+0	3.138E+0	3.122E+0	1.580E-1	3.129E-1	3.810E-2	7.461E-5
2.200E-3	9.201E+0	9.298E+0	1.280E+1	1.262E+1	1.751E-1	3.467E-1	1.061E-1	1.124E-4
2.561E-3	1.224E+0	1.237E+0	9.621E+0	9.460E+0	1.607E-1	3.182E-1	1.296E-1	1.359E-4
2.940E-3	2.028E+0	2.050E+0	5.805E+0	5.656E+0	1.492E-1	2.955E-1	1.294E-1	1.863E-4
3.345E-3	2.182E+0	2.204E+0	5.397E+0	5.251E+0	1.463E-1	2.897E-1	2.102E-1	2.152E-4
3.777E-3	1.585E+0	1.602E+0	7.430E+0	7.228E+0	1.433E-1	2.836E-1	1.497E-1	2.058E-4
4.234E-3	1.494E+0	1.510E+0	7.862E+0	7.745E+0	1.367E-1	2.708E-1	1.346E-1	2.466E-4
5.763E-3	2.255E+0	2.278E+0	5.223E+0	5.103E+0	1.202E-1	2.381E-1	1.787E-1	3.571E-4
7.527E-3	1.178E+0	1.191E+0	9.993E+0	9.901E+0	9.142E-2	1.814E-1	7.125E-2	3.528E-4
1.025E-2	1.137E+0	1.150E+0	1.035E+1	1.028E+1	7.198E-2	1.581E-1	5.435E-2	4.732E-4
1.511E-2	1.155E+0	1.167E+0	1.019E+1	1.013E+1	6.083E-2	1.542E-1	4.691E-2	6.552E-4
2.091E-2	1.230E+0	1.243E+0	9.573E+0	9.518E+0	5.465E-2	1.501E-1	4.513E-2	8.606E-4
2.645E-2	1.324E+0	1.338E+0	8.896E+0	8.847E+0	4.939E-2	1.459E-1	4.009E-2	1.062E-3
3.267E-2	1.557E+0	1.573E+0	7.564E+0	7.520E+0	4.351E-2	1.412E-1	4.589E-2	1.310E-3
3.953E-2	1.661E+0	1.679E+0	7.089E+0	7.050E+0	3.919E-2	1.360E-1	4.440E-2	1.561E-3
4.704E-2	1.814E+0	1.833E+0	6.493E+0	6.456E+0	3.692E-2	1.297E-1	4.596E-2	1.893E-3
5.761E-2	1.981E+0	2.002E+0	5.945E+0	5.910E+0	3.435E-2	1.222E-1	4.710E-2	2.316E-3
7.032E-2	2.038E+0	2.060E+0	5.778E+0	5.745E+0	3.209E-2	1.139E-1	4.582E-2	2.764E-3
8.322E-2	2.101E+0	2.123E+0	5.605E+0	5.575E+0	2.956E-2	1.044E-1	4.444E-2	3.250E-3
9.891E-2	2.171E+0	2.194E+0	5.423E+0	5.396E+0	2.682E-2	9.504E-2	4.237E-2	4.041E-3
1.307E-1	2.259E+0	2.315E+0	5.212E+0	5.188E+0	2.369E-2	8.518E-2	4.058E-2	5.344E-3
1.820E-1	2.345E+0	2.462E+0	5.021E+0	4.999E+0	2.135E-2	7.622E-2	3.946E-2	6.497E-3
2.075E-1	2.388E+0	2.537E+0	4.930E+0	4.910E+0	2.026E-2	7.238E-2	3.924E-2	7.373E-3
2.417E-1	2.427E+0	2.633E+0	4.852E+0	4.833E+0	1.931E-2	6.923E-2	3.904E-2	8.220E-3
2.710E-1	2.460E+0	2.719E+0	4.788E+0	4.769E+0	1.853E-2	6.664E-2	3.890E-2	8.698E-3
2.940E-1	2.500E+0	2.805E+0	4.710E+0	4.692E+0	1.757E-2	6.346E-2	3.864E-2	9.710E-3
3.345E-1	2.556E+0	2.946E+0	4.606E+0	4.590E+0	1.632E-2	5.921E-2	3.829E-2	1.081E-2
3.777E-1	2.618E+0	3.016E+0	4.497E+0	4.482E+0	1.510E-2	5.512E-2	3.821E-2	1.216E-2
4.234E-1	2.718E+0	3.115E+0	4.333E+0	4.319E+0	1.442E-2	5.266E-2	3.992E-2	1.428E-2
5.123E-1	2.887E+0	3.278E+0	4.079E+0	4.066E+0	1.332E-2	5.125E-2	4.292E-2	1.759E-2
6.325E-1	3.001E+0	3.366E+0	3.924E+0	3.897E+0	1.300E-2	1.009E-1	4.930E-2	2.128E-2

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ENDL 175 Group Neutron Constants

29-Cu-Nat

ATOMIC WEIGHT 63.540 ± 1		DENSITY 8.9600 ± 0 GRAMS/CC									
ENERGY MEV	MFP (CM)	CROSS SEC (1/N (BARN))					ENERGY DEPOSITION (MEV)				
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN REMAINDER	GAM-PROD.	TOTAL	LOCAL		
7.527	1	3.061	0	3.476	0	3.847	0	3.748	0	1.300	2
8.034	1	3.204	0	3.650	0	3.676	0	3.492	0	1.300	2
1.025	0	3.324	0	3.848	0	3.543	0	3.270	0	1.320	2
1.176	0	3.430	0	3.914	0	3.434	0	3.065	0	1.351	2
1.350	0	3.550	0	4.322	0	3.317	0	2.846	0	1.385	2
1.511	0	3.619	0	4.650	0	3.254	0	2.617	0	1.420	2
1.694	0	3.639	0	4.686	0	3.236	0	2.373	0	1.458	2
1.887	0	3.653	0	4.688	0	3.223	0	2.136	0	1.505	2
2.091	0	3.605	0	4.671	0	3.265	0	2.051	0	1.609	2
2.305	0	3.446	0	4.648	0	3.321	0	1.996	0	1.720	2
2.530	0	3.315	0	4.674	0	3.350	0	1.941	0	1.850	2
2.744	0	3.501	0	4.710	0	3.364	0	1.881	0	1.982	2
3.011	0	3.472	0	4.776	0	3.392	0	1.957	0	2.126	2
3.267	0	3.430	0	4.643	0	3.433	0	1.870	0	2.270	2
3.533	0	3.369	0	4.917	0	3.475	0	1.864	0	2.420	2
3.811	0	3.349	0	5.005	0	3.517	0	1.858	0	2.569	2
4.059	0	3.305	0	5.103	0	3.563	0	1.846	0	2.724	2
4.396	0	3.260	0	5.183	0	3.613	0	2.010	0	3.013	2
4.704	0	3.218	0	5.267	0	3.659	0	2.070	0	3.236	2
4.991	0	3.195	0	5.368	0	3.665	0	2.109	0	3.542	2
5.353	0	3.192	0	5.520	0	3.689	0	2.125	0	3.914	2
5.758	0	3.189	0	5.661	0	3.693	0	2.143	0	4.299	2
6.042	0	3.184	0	5.831	0	3.698	0	2.160	0	4.695	2
6.367	0	3.160	0	5.859	0	3.717	0	2.178	0	5.083	2
6.737	0	3.146	0	5.869	0	3.743	0	2.184	0	5.518	2
7.156	0	3.228	0	6.172	0	3.648	0	2.174	0	5.918	2
7.548	0	3.235	0	6.180	0	3.640	0	2.145	0	6.276	2
7.910	0	3.201	0	6.035	0	3.679	0	2.116	0	6.685	2
8.322	0	3.228	0	6.081	0	3.648	0	2.083	0	7.244	2
8.767	0	3.260	0	6.133	0	3.613	0	2.049	0	7.793	2
9.177	0	3.211	0	6.192	0	3.557	0	1.994	0	8.357	2
9.655	0	3.371	0	6.261	0	3.493	0	1.931	0	8.975	2
1.012	1	3.428	0	6.304	0	3.435	0	1.870	0	9.449	2
1.059	1	3.450	0	6.237	0	3.413	0	1.820	0	9.890	2
1.101	1	3.512	0	6.262	0	3.353	0	1.758	0	1.018	1
1.155	1	3.621	0	6.396	0	3.252	0	1.684	0	1.034	1
1.199	1	3.718	0	6.493	0	3.174	0	1.625	0	1.049	1
1.250	1	3.788	0	6.566	0	3.109	0	1.572	0	1.067	1
1.307	1	3.856	0	6.553	0	3.054	0	1.535	0	1.076	1
1.354	1	3.904	0	6.731	0	3.016	0	1.515	0	1.079	1
1.386	1	3.939	0	6.786	0	2.969	0	1.500	0	1.078	1
1.413	1	3.953	0	6.805	0	2.971	0	1.466	0	1.061	1
1.441	1	3.906	0	6.813	0	2.994	0	1.473	0	1.040	1
1.468	1	4.019	0	6.831	0	2.920	0	1.454	0	1.010	1
1.519	1	4.063	0	6.857	0	2.898	0	1.431	0	9.983	2
1.575	1	4.112	0	6.890	0	2.663	0	1.408	0	9.006	2
1.633	1	4.172	0	6.953	0	2.823	0	1.385	0	8.418	2
1.692	1	4.235	0	7.025	0	2.780	0	1.361	0	7.821	2
1.752	1	4.322	0	7.102	0	2.737	0	1.337	0	7.216	2
1.813	1	4.381	0	7.231	0	2.688	0	1.312	0	6.700	2
1.875	1	4.515	0	7.541	0	2.608	0	1.275	0	6.000	2
2.000	1										
RESONANCE INTEGRALS											
MAXWELLIAN AVERAGES											
1/E AVERAGES											
FUSION AVERAGES											
FUSION AVERAGES

Barns

04/12/76

ENDL 175 Group Neutron Constants

31-Ga-Nat

ATOMIC WEIGHT	6.9720 ± 1					DENSITY	5.9078 ± 0.0005/CC		
ENERGY	MEV	MP (CM)	CROSS SECTION (BARRS)				[ENERGY DEPOSITION (MEV)]		
		TOTAL	TRANSMUT.	TOTAL	ELASTIC	ABSORPTION	RETAINED	DATA	PHYS.
9.100	5	1.370	1	1.370	1	9.609	0	9.442	0
9.106	5	1.690	1	9.750	1	2.023	1	1.478	1
9.110	5	1.047	1	1.054	1	1.872	1	1.313	1
9.111	5	1.261	1	1.268	1	1.580	1	1.015	1
9.115	5	1.117	1	1.126	1	1.303	1	0.944	1
9.119	5	1.189	1	1.197	1	1.494	1	1.144	1
9.120	5	1.572	1	1.580	1	1.266	1	7.931	1
9.124	5	1.960	1	1.951	1	1.016	1	5.546	1
9.130	5	2.310	1	2.305	1	0.269	1	5.423	1
9.136	5	2.791	1	2.783	1	1.125	1	4.863	1
9.141	5	1.151	1	1.175	1	0.219	1	4.685	1
9.141	5	1.566	1	1.599	1	0.596	1	9.908	1
9.144	5	1.940	1	1.900	1	0.967	1	6.493	1
9.149	5	1.979	1	1.940	1	0.925	1	4.840	1
9.157	5	1.567	1	1.599	1	0.997	1	4.434	1
9.160	5	1.211	1	1.241	1	0.631	1	5.681	1
9.161	5	1.169	1	1.100	1	0.670	1	1.592	1
9.161	5	1.770	1	1.811	1	1.159	1	2.142	1
9.161	5	1.677	1	1.670	1	1.900	1	2.416	1
9.161	5	0.877	1	0.957	1	2.208	1	1.672	1
9.164	5	1.511	1	1.464	1	1.350	1	1.104	1
9.164	5	1.019	1	1.035	1	1.078	1	1.050	1
9.168	5	2.164	1	2.031	1	0.721	1	1.120	1
9.170	5	2.074	1	2.091	1	0.451	1	1.181	1
9.171	5	1.707	1	1.052	1	1.097	1	1.257	1
9.176	5	1.670	1	1.605	1	1.174	1	1.063	1
9.177	5	2.021	1	2.039	1	0.911	1	6.989	1
9.178	5	2.095	1	2.116	1	0.577	1	4.460	1
9.179	5	1.529	1	1.529	1	0.441	1	4.111	1
9.181	5	2.056	1	2.061	1	0.957	1	5.685	1
9.181	5	1.675	1	1.695	1	1.170	1	6.674	1
9.182	5	2.035	1	2.053	1	0.633	1	5.852	1
9.183	5	2.111	1	2.151	1	0.196	1	0.693	1
9.186	5	2.170	1	2.173	1	0.865	1	4.367	1
9.187	5	2.125	1	2.124	1	0.523	1	3.094	1
9.188	5	2.144	1	2.147	1	0.105	1	3.602	1
9.188	5	2.042	1	2.045	1	0.025	1	3.349	1
9.191	5	2.017	1	2.016	1	0.718	1	2.930	1
9.191	5	2.117	1	2.117	1	0.258	1	2.455	1
9.192	5	2.096	1	2.021	1	0.549	1	2.253	1
9.195	5	2.064	1	2.070	1	0.667	1	1.772	1
9.197	5	2.063	1	2.081	1	0.615	1	1.580	1
9.199	5	2.004	1	2.011	1	0.570	1	1.461	1
9.200	5	2.000	1	2.031	1	0.520	1	1.365	1
9.201	5	2.025	1	2.052	1	0.483	1	1.284	1
9.202	5	2.045	1	2.074	1	0.437	1	1.214	1
9.204	5	2.072	1	2.102	1	0.379	1	1.145	1
9.204	5	2.107	1	2.131	1	0.309	1	1.075	1
9.207	5	2.145	1	2.175	1	0.231	1	1.014	1
9.222	5	2.189	1	2.220	1	0.164	1	0.956	2
9.222	5	2.259	1	2.290	1	0.014	1	0.829	2
9.221	5	1.301	1	1.374	1	0.797	1	7.628	2
9.221	5	1.501	1	1.564	1	0.598	1	7.167	2
9.221	5	1.600	1	1.673	1	0.442	1	6.784	2
9.221	5	1.710	1	1.800	1	0.284	1	6.438	2
9.221	5	1.826	1	1.910	1	0.149	1	6.197	2
9.240	5	1.929	1	2.006	1	0.988	1	5.946	2
9.245	5	1.104	1	1.244	1	0.776	1	5.660	2
9.245	5	1.354	1	1.470	1	0.556	1	5.377	2
9.245	5	1.515	1	1.616	1	0.413	2	5.486	2
9.245	5	1.674	1	1.772	1	0.263	2	5.172	2
9.245	5	1.839	1	1.934	1	0.121	3	4.897	3
9.245	5	2.004	1	2.106	1	0.059	3	4.676	3

ATOMIC WEIGHT 6.9720(1)		DENSITY 5.9070+0 GRAMS/CC									
E (MeV)	GROUP	MP (cm)		CROSS SECTION (BARNs)						ENERGY DEPOSIT (MeV)	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	RETNDR	GAM-PROD.		TOTAL	LOCAL
0.0000	1	5.977+0	5.311+0	5.991+0	3.764+0	3.132+0	5.452+0	1.733+0	1.655+0	2.616+0	2.616+0
0.0000	2	5.085+0	5.476+0	5.055+0	3.092+0	2.722+0	7.355+0	2.299+0	2.252+0	2.880+0	2.880+0
0.0000	3	5.221+0	5.675+0	5.254+0	2.789+0	2.393+0	9.404+0	2.689+0	2.668+0	3.136+0	3.136+0
0.0000	4	5.404+0	5.015+0	5.677+0	2.460+0	2.129+0	1.146+0	3.452+0	3.416+0	3.200+0	3.200+0
0.0000	5	5.744+0	5.515+0	5.418+0	2.109+0	1.900+0	2.289+0	3.907+0	4.276+0	3.489+0	3.489+0
0.0000	6	5.872+0	6.046+0	5.318+0	1.930+0	1.710+0	2.391+0	4.232+0	5.076+0	3.679+0	3.679+0
0.0000	7	5.810+0	5.947+0	5.374+0	1.892+0	1.548+0	2.466+0	4.461+0	5.773+0	3.652+0	3.652+0
0.0000	8	5.122+0	1.024+0	5.316+0	1.842+0	1.405+0	2.539+0	4.598+0	6.580+0	4.005+0	4.005+0
0.0000	9	5.490+0	5.516+0	5.294+0	1.711+0	1.259+0	2.570+0	4.603+0	7.562+0	4.143+0	4.143+0
0.0000	10	5.199+0	8.019+0	5.162+0	1.559+0	1.142+0	2.592+0	4.503+0	8.705+0	4.274+0	4.274+0
0.0000	11	5.674+0	6.400+0	5.297+0	1.733+0	1.058+0	2.614+0	4.597+0	9.768+0	4.372+0	4.372+0
0.0000	12	6.274+0	8.638+0	5.123+0	1.475+0	9.831+0	3.1638+0	4.635+0	1.075+0	4.424+0	4.424+0
0.0000	13	6.046+0	8.019+0	5.246+0	1.569+0	9.734+0	3.1657+0	4.586+0	1.148+0	4.553+0	4.553+0
0.0000	14	5.708+0	8.888+0	5.380+0	1.700+0	9.975+0	3.1670+0	4.457+0	1.205+0	4.783+0	4.783+0
0.0000	15	5.467+0	8.554+0	5.430+0	1.836+0	1.037+0	2.684+0	4.386+0	1.261+0	5.015+0	5.015+0
0.0000	16	5.343+0	8.888+0	5.674+0	1.968+0	1.088+0	2.696+0	4.353+0	1.314+0	5.238+0	5.238+0
0.0000	17	5.205+0	8.349+0	5.766+0	2.058+0	1.147+0	2.696+0	4.319+0	1.382+0	5.484+0	5.484+0
0.0000	18	5.103+0	8.624+0	6.014+0	2.197+0	1.220+0	2.691+0	4.294+0	1.460+0	5.752+0	5.752+0
0.0000	19	5.011+0	5.584+0	6.111+0	2.212+0	1.296+0	2.686+0	4.306+0	1.531+0	5.995+0	5.995+0
0.0000	20	4.916+0	8.412+0	5.974+0	2.276+0	1.411+0	2.680+0	4.362+0	1.616+0	6.260+0	6.260+0
0.0000	21	4.804+0	8.482+0	5.018+0	2.326+0	1.555+0	2.675+0	4.455+0	1.659+0	6.533+0	6.533+0
0.0000	22	4.644+0	8.500+0	4.263+0	2.372+0	1.710+0	2.669+0	4.551+0	1.788+0	6.704+0	6.704+0
0.0000	23	4.444+0	8.674+0	4.274+0	2.380+0	1.874+0	2.663+0	4.645+0	1.902+0	7.102+0	7.102+0
0.0000	24	4.012+0	8.065+0	4.274+0	2.345+0	2.038+0	2.657+0	4.731+0	2.031+0	7.413+0	7.413+0
0.0000	25	4.402+0	9.320+0	4.974+0	2.305+0	2.226+0	2.651+0	4.628+0	2.181+0	7.770+0	7.770+0
0.0000	26	4.996+0	9.406+0	5.053+0	2.256+0	2.426+0	2.643+0	4.938+0	2.344+0	8.177+0	8.177+0
0.0000	27	5.004+0	9.454+0	5.173+0	2.209+0	2.613+0	2.635+0	5.036+0	2.504+0	8.579+0	8.579+0
0.0000	28	5.137+0	9.458+0	5.816+0	2.161+0	2.796+0	2.627+0	5.144+0	2.672+0	8.982+0	8.982+0
0.0000	29	5.221+0	9.513+0	5.754+0	2.106+0	2.981+0	2.618+0	5.291+0	2.867+0	9.450+0	9.450+0
0.0000	30	5.325+0	9.454+0	6.694+0	2.053+0	3.163+0	2.609+0	5.440+0	3.061+0	9.896+0	9.896+0
0.0000	31	5.383+0	4.926+0	6.641+0	2.008+0	3.350+0	2.600+0	5.594+0	3.243+0	1.035+0	1.035+0
0.0000	32	5.475+0	4.013+0	5.503+0	1.961+0	3.552+0	2.584+0	5.783+0	3.333+0	1.084+0	1.084+0
0.0000	33	5.576+0	3.016+0	5.515+0	1.915+0	3.755+0	2.562+0	5.905+0	3.379+0	1.138+0	1.138+0
0.0000	34	5.661+0	2.060+0	5.450+0	1.876+0	3.952+0	2.540+0	5.970+0	3.408+0	1.193+0	1.193+0
0.0000	35	5.744+0	1.011+0	5.304+0	1.826+0	4.105+0	2.522+0	5.990+0	3.444+0	1.255+0	1.255+0
0.0000	36	5.880+0	0.991+0	5.335+0	1.783+0	4.302+0	2.507+0	5.765+0	3.228+0	1.319+0	1.319+0
0.0000	37	5.963+0	0.999+0	5.287+0	1.741+0	4.592+0	2.500+0	5.923+0	3.077+0	1.335+0	1.335+0
0.0000	38	6.046+0	1.124+0	5.242+0	1.694+0	4.831+0	2.500+0	5.766+0	2.819+0	1.467+0	1.467+0
0.0000	39	6.138+0	1.091+0	5.193+0	1.648+0	5.063+0	2.494+0	5.535+0	2.583+0	1.553+0	1.553+0
0.0000	40	6.229+0	1.116+0	5.152+0	1.614+0	5.232+0	2.486+0	5.355+0	2.445+0	1.619+0	1.619+0
0.0000	41	6.284+0	1.121+0	5.121+0	1.580+0	5.357+0	2.480+0	5.212+0	2.244+0	1.668+0	1.668+0
0.0000	42	6.344+0	1.129+0	5.090+0	1.554+0	5.379+0	2.472+0	5.079+0	2.274+0	1.707+0	1.707+0
0.0000	43	6.411+0	1.156+0	5.057+0	1.520+0	5.387+0	2.464+0	4.948+0	2.206+0	1.745+0	1.745+0
0.0000	44	6.501+0	1.145+0	5.015+0	1.509+0	5.393+0	2.453+0	4.792+0	2.121+0	1.793+0	1.793+0
0.0000	45	6.557+0	1.143+0	4.984+0	1.486+0	5.391+0	2.450+0	4.800+0	2.185+0	1.867+0	1.867+0
0.0000	46	6.614+0	1.140+0	4.967+0	1.469+0	5.380+0	2.446+0	4.813+0	2.258+0	1.938+0	1.938+0
0.0000	47	6.673+0	1.152+0	4.928+0	1.451+0	5.057+0	2.426+0	4.720+0	2.355+0	2.007+0	2.007+0
0.0000	48	6.735+0	1.160+0	4.887+0	1.433+0	4.932+0	2.404+0	4.561+0	2.450+0	2.077+0	2.077+0
0.0000	49	6.800+0	1.165+0	4.845+0	1.415+0	4.805+0	2.381+0	4.389+0	2.530+0	2.147+0	2.147+0
0.0000	50	6.867+0	1.172+0	4.802+0	1.397+0	4.716+0	2.358+0	4.281+0	2.596+0	2.216+0	2.216+0
0.0000	51	6.937+0	1.179+0	4.757+0	1.379+0	4.643+0	2.333+0	4.135+0	2.654+0	2.284+0	2.284+0
0.0000	52	7.010+0	1.186+0	4.711+0	1.361+0	4.570+0	2.307+0	4.000+0	2.704+0	2.352+0	2.352+0
0.0000	53	7.084+0	1.193+0	4.664+0	1.343+0	4.500+0	2.280+0	3.875+0	2.744+0	2.419+0	2.419+0
0.0000	54	7.160+0	1.200+0	4.616+0	1.325+0	4.430+0	2.252+0	3.750+0	2.784+0	2.486+0	2.486+0
0.0000	55	7.237+0	1.207+0	4.567+0	1.307+0	4.360+0	2.224+0	3.625+0	2.824+0	2.553+0	2.553+0
0.0000	56	7.315+0	1.214+0	4.518+0	1.289+0	4.290+0	2.195+0	3.500+0	2.864+0	2.620+0	2.620+0
0.0000	57	7.394+0	1.221+0	4.468+0	1.271+0	4.220+0	2.166+0	3.375+0	2.904+0	2.687+0	2.687+0
0.0000	58	7.474+0	1.228+0	4.418+0	1.253+0	4.150+0	2.137+0	3.250+0	2.944+0	2.754+0	2.754+0
0.0000	59	7.555+0	1.235+0	4.367+0	1.235+0	4.080+0	2.108+0	3.125+0	2.984+0	2.821+0	2.821+0
0.0000	60	7.637+0	1.242+0	4.316+0	1.217+0	4.010+0	2.079+0	3.000+0	3.024+0	2.888+0	2.888+0
0.0000	61	7.720+0	1.249+0	4.264+0	1.199+0	3.940+0	2.050+0	2.875+0	3.064+0	2.955+0	2.955+0
 	

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

40-Zr-Nat

ATOMIC WEIGHT	9 17244 1	ENERGY	MP (eV)	GROUPS SECTION 1				DENSITY 6 4893 4 GRAMS/CC			
				TOTAL	ELASTIC	ABSORB	REMAINDER	GROUPS	ENERGY DEPOSITION (eV)		
				TOTAL	ELASTIC	ABSORB	REMAINDER	GROUPS	TOTAL	LOCAL	
1 307 1	1 355 2	3 574 2	6 576 0	6 019 0	5 376 1			812 2	7 096 1	3 583 5	
2 427 1	1 614 0	3 640 0	6 459 0	6 190 0	5 687 1			9 054 1	3 611 1	1 623 5	
3 091 1	1 659 0	3 665 0	6 444 0	6 235 0	5 791 1			6 037 1	2 424 1	1 224 5	
4 267 1	1 674 0	3 674 0	6 399 0	6 253 0	5 765 1			4 935 1	1 988 1	1 004 5	
5 704 1	1 657 0	3 664 0	6 384 0	6 268 0	5 755 1			3 691 1	1 570 1	7 930 6	
6 344 1	1 666 0	3 673 0	6 367 0	6 276 0	5 768 1			3 027 1	1 225 1	6 188 6	
7 191 1	1 713 0	3 700 0	6 354 0	6 281 0	5 739 2			2 473 0	1 002 1	5 067 6	
8 012 1	1 678 0	3 705 0	6 346 0	6 294 0	5 711 2			2 093 1	6 495 2	4 297 6	
9 561 1	1 660 0	3 709 0	6 339 0	6 286 0	5 379 2			1 613 1	7 365 2	3 728 6	
1 344 1	1 685 0	3 712 0	6 335 0	6 287 0	4 748 2			1 600 1	6 506 2	3 796 6	
2 434 1	1 687 0	3 714 0	6 332 0	6 289 0	4 270 2			4 439 1	5 653 2	2 969 6	
3 125 1	1 688 0	3 715 0	6 329 0	6 292 0	3 663 2			2 431 1	5 051 2	2 508 6	
4 527 1	1 689 0	3 716 0	6 328 0	6 290 0	2 991 2			1 129 1	4 105 2	2 090 6	
5 176 1	1 691 0	3 718 0	6 325 0	6 293 0	2 528 2			6 510 2	3 465 2	1 784 6	
6 511 1	1 692 0	3 720 0	6 322 0	6 300 0	2 164 2			7 362 2	2 999 2	1 560 6	
7 091 1	1 693 0	3 721 0	6 319 0	6 303 0	1 866 2			6 351 2	2 588 2	1 366 6	
8 741 1	1 695 0	3 723 0	6 317 0	6 301 0	1 655 2			5 575 2	2 273 2	1 224 6	
9 537 1	1 696 0	3 724 0	6 316 0	6 300 0	1 445 2			4 671 2	1 986 2	1 101 6	
1 094 1	1 697 0	3 725 0	6 314 0	6 300 0	1 267 2			4 138 2	1 770 2	1 016 6	
1 658 1	1 697 0	3 725 0	6 314 0	6 300 0	1 078 2			3 970 2	1 619 2	9 630 7	
2 337 1	1 697 0	3 725 0	6 313 0	6 303 0	1 070 2			3 607 2	1 472 2	9 184 7	
3 120 1	1 698 0	3 726 0	6 311 0	6 301 0	9 86 3			3 325 2	1 340 2	8 084 7	
4 620 1	1 698 0	3 726 0	6 311 0	6 301 0	9 75 3			3 080 2	1 258 2	8 731 7	
5 771 1	1 699 0	3 726 0	6 310 0	6 300 0	8 492 3			2 661 2	1 168 2	8 657 7	
7 191 1	1 699 0	3 726 0	6 310 0	6 300 0	9 71 3			2 068 2	1 089 2	8 670 7	
8 468 1	1 700 0	3 727 0	6 309 0	6 299 0	7 584 3			2 549 2	9 414 2	8 730 7	
1 081 1	1 700 0	3 728 0	6 308 0	6 301 0	6 23 3			2 377 2	9 951 3	8 822 7	
1 758 1	1 701 0	3 728 0	6 307 0	6 300 0	6 938 3			2 338 2	9 540 3	8 852 7	
2 002 1	1 702 0	3 729 0	6 306 0	6 300 0	6 656 3			2 244 2	9 164 3	9 109 7	
2 075 1	1 702 0	3 730 0	6 305 0	6 299 0	6 365 3			2 145 2	8 762 3	9 344 7	
2 277 1	1 703 0	3 730 0	6 304 0	6 298 0	6 147 3			2 071 2	8 464 3	9 570 7	
2 417 1	1 703 0	3 731 0	6 304 0	6 298 0	5 976 3			2 014 2	8 730 3	9 769 7	
3 561 1	1 704 0	3 731 0	6 303 0	6 297 0	5 820 3			1 961 2	8 015 3	9 984 7	
4 710 1	1 704 0	3 732 0	6 302 0	6 296 0	5 674 3			1 912 2	7 816 3	1 022 6	
5 860 1	1 704 0	3 732 0	6 301 0	6 296 0	5 562 3			1 875 2	7 643 3	1 033 6	
7 040 1	1 705 0	3 732 0	6 301 0	6 295 0	5 460 3			1 840 2	7 523 3	1 058 6	
8 099 1	1 705 0	3 733 0	6 300 0	6 295 0	5 301 3			1 786 2	7 304 3	1 092 6	
1 345 1	1 706 0	3 734 0	6 299 0	6 294 0	5 16 3			1 724 2	7 051 3	1 135 6	
1 601 1	1 707 0	3 734 0	6 299 0	6 293 0	4 946 3			1 668 2	6 821 3	1 180 6	
3 860 1	1 707 0	3 735 0	6 298 0	6 292 0	4 612 3			1 621 2	6 634 3	1 220 6	
4 048 1	1 708 0	3 735 0	6 298 0	6 291 0	4 714 3			1 589 2	6 500 3	1 250 6	
4 234 1	1 708 0	3 736 0	6 295 0	6 290 0	4 640 3			1 544 2	6 399 3	1 264 6	
4 329 1	1 709 0	3 736 0	6 294 0	6 289 0	4 544 3			1 531 2	6 268 3	1 315 6	
4 619 1	1 709 0	3 737 0	6 294 0	6 289 0	4 457 3			1 479 2	6 149 3	1 352 6	
4 717 1	1 710 0	3 737 0	6 292 0	6 288 0	4 391 3			1 429 2	6 059 3	1 381 6	
4 918 1	1 710 0	3 738 0	6 292 0	6 287 0	4 305 3			1 402 2	5 945 3	1 419 6	
5 123 1	1 711 0	3 738 0	6 291 0	6 286 0	4 248 3			1 312 2	5 862 3	1 461 6	
5 330 1	1 711 0	3 739 0	6 290 0	6 285 0	4 1 3 3			1 26 2	5 761 3	1 514 6	
5 654 1	1 712 0	3 740 0	6 289 0	6 284 0	4 113 3			1 206 2	5 679 3	1 558 6	
5 763 1	1 713 0	3 740 0	6 288 0	6 283 0	4 052 3			1 160 2	5 595 3	1 602 6	
6 091 1	1 713 0	3 741 0	6 288 0	6 282 0	3 987 3			1 114 2	5 507 3	1 660 6	
6 325 1	1 714 0	3 741 0	6 285 0	6 279 0	3 940 3			1 068 2	5 442 3	1 707 6	
6 557 1	1 714 0	3 742 0	6 285 0	6 281 0	3 90 3			1 016 2	5 393 3	1 743 6	
6 674 1	1 715 0	3 742 0	6 284 0	6 280 0	3 855 3			1 009 2	5 326 3	1 792 6	
7 034 1	1 716 0	3 743 0	6 283 0	6 278 0	3 805 3			962 2	5 259 3	1 842 6	
7 155 1	1 716 0	3 744 0	6 282 0	6 277 0	3 754 3			906 2	5 190 3	1 893 6	
7 527 1	1 717 0	3 745 0	6 280 0	6 275 0	3 690 3			844 2	5 102 3	1 957 6	
7 780 1	1 717 0	3 745 0	6 279 0	6 274 0	3 634 3			771 2	5 052 3	1 996 6	
7 908 1	1 718 0	3 745 0	6 279 0	6 275 0	3 626 3			722 2	5 011 3	2 037 6	
8 167 1	1 719 0	3 746 0	6 278 0	6 274 0	3 586 3			669 2	4 962 3	2 092 6	
8 431 1	1 719 0	3 747 0	6 276 0	6 273 0	3 539 3			613 2	4 897 3	2 162 6	
8 834 1	1 720 0	3 748 0	6 275 0	6 271 0	3 490 3			576 2	4 830 3	2 233 6	

ATOMIC WEIGHT 91.224		DENSITY 6.4853 G/CM ³				
ENERGY MeV	MULTIPLIER	CROSS SECTION (BARN)			ENERGY DEPOSITION (eV)	
		TOTAL	ELAS.	ABSORPTN	REMAINDER	TOTAL
4.10E-1	1	3.749E+0	6.274E+0	3.450E+3	1.163E+2	2.291E+6
4.34E-1	1	3.749E+0	6.272E+0	3.409E+3	1.149E+2	2.349E+6
4.58E-1	1	3.750E+0	6.271E+0	3.376E+3	1.138E+2	2.394E+6
4.81E-1	1	3.751E+0	6.270E+0	3.341E+3	1.152E+2	2.461E+6
5.05E-1	1	3.752E+0	6.267E+0	3.307E+3	1.340E+2	2.640E+6
5.29E-1	1	3.755E+0	6.265E+0	3.256E+3	1.603E+2	2.677E+6
5.53E-1	1	3.757E+0	6.259E+0	3.163E+3	1.875E+2	3.125E+6
5.77E-1	1	3.760E+0	6.255E+0	3.097E+3	2.156E+2	3.382E+6
6.01E-1	1	3.762E+0	6.251E+0	3.032E+3	2.416E+2	3.623E+6
6.25E-1	1	3.765E+0	6.246E+0	2.958E+3	2.715E+2	3.902E+6
6.49E-1	1	3.769E+0	6.239E+0	2.867E+3	3.037E+2	4.160E+6
6.73E-1	1	3.766E+0	6.244E+0	2.769E+3	3.379E+2	4.417E+6
6.97E-1	1	3.770E+0	6.238E+0	2.654E+3	3.721E+2	4.669E+6
7.21E-1	1	3.768E+0	6.234E+0	2.524E+3	4.063E+2	4.915E+6
7.45E-1	1	3.774E+0	6.229E+0	2.380E+3	4.405E+2	5.155E+6
7.69E-1	1	3.781E+0	6.224E+0	2.224E+3	4.747E+2	5.390E+6
7.93E-1	1	3.789E+0	6.219E+0	2.057E+3	5.089E+2	5.613E+6
8.17E-1	1	3.797E+0	6.214E+0	1.880E+3	5.431E+2	5.825E+6
8.41E-1	1	3.805E+0	6.209E+0	1.693E+3	5.773E+2	6.027E+6
8.65E-1	1	3.813E+0	6.204E+0	1.496E+3	6.115E+2	6.219E+6
8.89E-1	1	3.821E+0	6.199E+0	1.289E+3	6.457E+2	6.402E+6
9.13E-1	1	3.829E+0	6.194E+0	1.072E+3	6.800E+2	6.575E+6
9.37E-1	1	3.837E+0	6.189E+0	8.454E+2	7.142E+2	6.739E+6
9.61E-1	1	3.845E+0	6.184E+0	6.196E+2	7.484E+2	6.894E+6
9.85E-1	1	3.853E+0	6.179E+0	3.938E+2	7.826E+2	7.040E+6
1.009E+0	1	3.861E+0	6.174E+0	1.680E+2	8.168E+2	7.177E+6
1.033E+0	1	3.869E+0	6.169E+0	41.6E+1	8.510E+2	7.306E+6
1.057E+0	1	3.877E+0	6.164E+0	1.422E+2	8.852E+2	7.428E+6
1.081E+0	1	3.885E+0	6.159E+0	1.215E+2	9.194E+2	7.542E+6
1.105E+0	1	3.893E+0	6.154E+0	1.008E+2	9.536E+2	7.649E+6
1.129E+0	1	3.901E+0	6.149E+0	7.914E+1	9.878E+2	7.750E+6
1.153E+0	1	3.909E+0	6.144E+0	5.740E+1	1.022E+3	7.845E+6
1.177E+0	1	3.917E+0	6.139E+0	3.566E+1	1.057E+3	7.935E+6
1.201E+0	1	3.925E+0	6.134E+0	1.392E+1	1.092E+3	8.020E+6
1.225E+0	1	3.933E+0	6.129E+0	2.214E+1	1.127E+3	8.101E+6
1.249E+0	1	3.941E+0	6.124E+0	4.036E+1	1.162E+3	8.178E+6
1.273E+0	1	3.949E+0	6.119E+0	5.859E+1	1.197E+3	8.251E+6
1.297E+0	1	3.957E+0	6.114E+0	7.682E+1	1.232E+3	8.320E+6
1.321E+0	1	3.965E+0	6.109E+0	9.505E+1	1.267E+3	8.385E+6
1.345E+0	1	3.973E+0	6.104E+0	1.1328E+2	1.302E+3	8.447E+6
1.369E+0	1	3.981E+0	6.099E+0	1.3150E+2	1.337E+3	8.505E+6
1.393E+0	1	3.989E+0	6.094E+0	1.4972E+2	1.372E+3	8.559E+6
1.417E+0	1	3.997E+0	6.089E+0	1.6794E+2	1.407E+3	8.610E+6
1.441E+0	1	4.005E+0	6.084E+0	1.8616E+2	1.442E+3	8.658E+6
1.465E+0	1	4.013E+0	6.079E+0	2.0438E+2	1.477E+3	8.704E+6
1.489E+0	1	4.021E+0	6.074E+0	2.2260E+2	1.512E+3	8.748E+6
1.513E+0	1	4.029E+0	6.069E+0	2.4082E+2	1.547E+3	8.790E+6
1.537E+0	1	4.037E+0	6.064E+0	2.5904E+2	1.582E+3	8.830E+6
1.561E+0	1	4.045E+0	6.059E+0	2.7726E+2	1.617E+3	8.868E+6
1.585E+0	1	4.053E+0	6.054E+0	2.9548E+2	1.652E+3	8.904E+6
1.609E+0	1	4.061E+0	6.049E+0	3.1370E+2	1.687E+3	8.938E+6
1.633E+0	1	4.069E+0	6.044E+0	3.3192E+2	1.722E+3	8.970E+6
1.657E+0	1	4.077E+0	6.039E+0	3.5014E+2	1.757E+3	9.000E+6
1.681E+0	1	4.085E+0	6.034E+0	3.6836E+2	1.792E+3	9.028E+6
1.705E+0	1	4.093E+0	6.029E+0	3.8658E+2	1.827E+3	9.055E+6
1.729E+0	1	4.101E+0	6.024E+0	4.0480E+2	1.862E+3	9.081E+6
1.753E+0	1	4.109E+0	6.019E+0	4.2302E+2	1.897E+3	9.106E+6
1.777E+0	1	4.117E+0	6.014E+0	4.4124E+2	1.932E+3	9.129E+6
1.801E+0	1	4.125E+0	6.009E+0	4.5946E+2	1.967E+3	9.151E+6
1.825E+0	1	4.133E+0	6.004E+0	4.7768E+2	2.002E+3	9.172E+6
1.849E+0	1	4.141E+0	6.000E+0	4.9590E+2	2.037E+3	9.193E+6
1.873E+0	1	4.149E+0	5.995E+0	5.1412E+2	2.072E+3	9.213E+6
1.897E+0	1	4.157E+0	5.990E+0	5.3234E+2	2.107E+3	9.233E+6
1.921E+0	1	4.165E+0	5.985E+0	5.5056E+2	2.142E+3	9.252E+6
1.945E+0	1	4.173E+0	5.980E+0	5.6878E+2	2.177E+3	9.271E+6
1.969E+0	1	4.181E+0	5.975E+0	5.8700E+2	2.212E+3	9.289E+6
1.993E+0	1	4.189E+0	5.970E+0	6.0522E+2	2.247E+3	9.306E+6
2.017E+0	1	4.197E+0	5.965E+0	6.2344E+2	2.282E+3	9.323E+6
2.041E+0	1	4.205E+0	5.960E+0	6.4166E+2	2.317E+3	9.339E+6
2.065E+0	1	4.213E+0	5.955E+0	6.5988E+2	2.352E+3	9.354E+6
2.089E+0	1	4.221E+0	5.950E+0	6.7810E+2	2.387E+3	9.369E+6
2.113E+0	1	4.229E+0	5.945E+0	6.9632E+2	2.422E+3	9.383E+6
2.137E+0	1	4.237E+0	5.940E+0	7.1454E+2	2.457E+3	9.396E+6
2.161E+0	1	4.245E+0	5.935E+0	7.3276E+2	2.492E+3	9.409E+6
2.185E+0	1	4.253E+0	5.930E+0	7.5098E+2	2.527E+3	9.421E+6
2.209E+0	1	4.261E+0	5.925E+0	7.6920E+2	2.562E+3	9.433E+6
2.233E+0	1	4.269E+0	5.920E+0	7.8742E+2	2.597E+3	9.444E+6
2.257E+0	1	4.277E+0	5.915E+0	8.0564E+2	2.632E+3	9.455E+6
2.281E+0	1	4.285E+0	5.910E+0	8.2386E+2	2.667E+3	9.465E+6
2.305E+0	1	4.293E+0	5.905E+0	8.4208E+2	2.702E+3	9.475E+6
2.329E+0	1	4.301E+0	5.900E+0	8.6030E+2	2.737E+3	9.484E+6
2.353E+0	1	4.309E+0	5.895E+0	8.7852E+2	2.772E+3	9.493E+6
2.377E+0	1	4.317E+0	5.890E+0	8.9674E+2	2.807E+3	9.501E+6
2.401E+0	1	4.325E+0	5.885E+0	9.1496E+2	2.842E+3	9.509E+6
2.425E+0	1	4.333E+0	5.880E+0	9.3318E+2	2.877E+3	9.516E+6
2.449E+0	1	4.341E+0	5.875E+0	9.5140E+2	2.912E+3	9.523E+6
2.473E+0	1	4.349E+0	5.870E+0	9.6962E+2	2.947E+3	9.529E+6
2.497E+0	1	4.357E+0	5.865E+0	9.8784E+2	2.982E+3	9.535E+6
2.521E+0	1	4.365E+0	5.860E+0	1.00606E+3	3.017E+3	9.540E+6
2.545E+0	1	4.373E+0	5.855E+0	1.02428E+3	3.052E+3	9.545E+6
2.569E+0	1	4.381E+0	5.850E+0	1.04250E+3	3.087E+3	9.549E+6
2.593E+0	1	4.389E+0	5.845E+0	1.06072E+3	3.122E+3	9.553E+6
2.617E+0	1	4.397E+0	5.840E+0	1.07894E+3	3.157E+3	9.557E+6
2.641E+0	1	4.405E+0	5.835E+0	1.09716E+3	3.192E+3	9.560E+6
2.665E+0	1	4.413E+0	5.830E+0	1.11538E+3	3.227E+3	9.563E+6
2.689E+0	1	4.421E+0	5.825E+0	1.13360E+3	3.262E+3	9.565E+6
2.713E+0	1	4.429E+0	5.820E+0	1.15182E+3	3.297E+3	9.567E+6
2.737E+0	1	4.437E+0	5.815E+0	1.17004E+3	3.332E+3	9.569E+6
2.761E+0	1	4.445E+0	5.810E+0	1.18826E+3	3.367E+3	9.570E+6
2.785E+0	1	4.453E+0	5.805E+0	1.20648E+3	3.402E+3	9.571E+6
2.809E+0	1	4.461E+0	5.800E+0	1.22470E+3	3.437E+3	9.572E+6
2.833E+0	1	4.469E+0	5.795E+0	1.24292E+3	3.472E+3	9.573E+6
2.857E+0	1	4.477E+0	5.790E+0	1.26114E+3	3.507E+3	9.573E+6
2.881E+0	1	4.485E+0	5.785E+0	1.27936E+3	3.542E+3	9.573E+6
2.905E+0	1	4.493E+0	5.780E+0	1.29758E+3	3.577E+3	9.573E+6
2.929E+0	1	4.501E+0	5.775E+0	1.31580E+3	3.612E+3	9.573E+6
2.953E+0	1	4.509E+0	5.770E+0	1.33402E+3	3.647E+3	9.573E+6
2.977E+0	1	4.517E+0	5.765E+0	1.35224E+3	3.682E+3	9.573E+6
3.001E+0	1	4.525E+0	5.760E+0	1.37046E+3	3.717E+3	9.573E+6
3.025E+0	1	4.533E+0	5.755E+0	1.38868E+3	3.752E+3	9.573E+6
3.049E+0	1	4.541E+0	5.750E+0	1.40690E+3	3.787E+3	9.573E+6
3.073E+0	1	4.549E+0	5.745E+0	1.42512E+3	3.822E+3	9.573E+6
3.097E+0	1	4.557E+0	5.740E+0	1.44334E+3	3.857E+3	9.573E+6
3.121E+0	1	4.565E+0	5.735E+0	1.46156E+3	3.892E+3	9.573E+6
3.145E+0	1	4.573E+0	5.730E+0	1.47978E+3	3.927E+3	9.573E+6
3.169E+0	1	4.581E+0	5.725E+0	1.49800E+3	3.962E+3	9.573E+6
3.193E+0	1	4.589E+0	5.720E+0	1.51622E+3	3.997E+3	9.573E+6
3.217E+0	1	4.597E+0	5.715E+0	1.53444E+3	4.032E+3	9.573E+6
3.241E+0	1	4.605E+0	5.710E+0	1.55266E+3	4.067E+3	9.573E+6
3.265E+0	1	4.613E+0	5.705E+0	1.57088E+3	4.102E+3	9.573E+6
3.289E+0	1	4.621E+0	5.700E+0	1.58910E+3	4.137E+3	9.573E+6
3.313E+0	1	4.629E+0	5.695E+0	1.60732E+3	4.172E+3	9.573E+6
3.337E+0	1	4.637E+0	5.690E+0	1.62554E+3	4.207E+3	9.573E+6
3.361E+0	1	4.645E+0	5.685E+0	1.64376E+3	4.242E+3	9.573E+6
3.385E+0	1	4.653E+0	5.680E+0	1.66198E+3	4.277E+3	9.573E+6
3.409E+0	1	4.661E+0	5.675E+0	1.68020E+3	4.312E+3	9.573E+6
3.433E+0	1	4.669E+0	5.670E+0	1.69842E+3	4.347E+3	9.573E+6
3.457E+0	1	4.677E+0	5.665E+0	1.71664E+3	4.382E+3	9.573E+6
3.481E+0	1	4.685E+0	5.660E+0	1.73486E+3	4.417E+3	9.573E+6
3.505E+0	1	4.693E+0	5.655E+0	1.75308E+3	4.452E+3	9.573E+6
3.529E+0	1	4.701E+0	5.650E+0	1.77130E+3	4.487E+3	9.573E+6
3.553E+0	1	4.709E+0	5.645E+0	1.78952E+3	4.522E+3	9.573E+6</

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ENOL 175 Group Neutron Constants

40-Zr-Nat

ATOMIC WEIGHT		9.1224 ± 1		DENSITY		6.4993 ± 0 GRAMS/CC				
ENERGY		WFP (CM)		CROSS SECTION (BARNs)				(ENERGY DEPOSIT (MEV))		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1		2.866-0	4.282-0	8.145-0	0.130-0	6.303-3		1.370-1	1.904-2	1.231-2
8.834-1		3.081-0	4.602-0	7.511-0	7.477-0	5.616-3	2.822-2	1.963-1	2.376-2	1.390-2
1.025-0		3.781-0	6.008-0	6.174-0	6.028-0	4.599-3	1.418-1	4.072-1	4.337-2	1.574-2
1.176-0		4.001-0	6.302-0	5.834-0	5.589-0	4.529-3	2.410-1	7.057-1	5.287-2	1.802-2
1.338-0		4.334-0	6.805-0	5.325-0	4.993-0	4.370-3	2.270-1	9.466-1	6.645-2	2.053-2
1.511-0		4.757-0	7.293-0	4.707-0	4.405-0	4.552-3	4.180-1	1.179-0	1.207-1	2.318-2
1.694-0		4.977-0	7.558-0	4.090-0	4.180-0	5.023-3	5.052-1	1.420-0	1.604-1	2.587-2
1.887-0		5.160-0	7.766-0	4.524-0	3.921-0	5.899-3	5.974-1	1.672-0	2.252-1	2.848-2
2.091-0		5.316-0	7.902-0	4.391-0	3.672-0	5.962-3	7.127-1	1.976-0	3.117-1	3.048-2
2.305-0		5.468-0	8.005-0	4.269-0	3.426-0	5.864-3	8.434-1	2.295-0	4.009-1	3.208-2
2.530-0		5.627-0	8.151-0	4.148-0	3.169-0	5.767-3	9.731-1	2.612-0	5.034-1	3.415-2
2.741-0		5.814-0	8.555-0	4.015-0	2.893-0	5.661-3	1.116-0	2.961-0	6.353-1	3.499-2
3.011-0		5.903-0	8.790-0	3.994-0	2.708-0	5.967-3	1.243-0	3.221-0	7.696-1	3.678-2
3.267-0		5.879-0	8.720-0	3.971-0	2.630-0	6.649-3	1.334-0	3.570-0	8.854-1	3.918-2
3.533-0		5.894-0	8.642-0	3.988-0	2.540-0	7.359-3	1.432-0	3.925-0	1.015-0	4.171-2
3.811-0		5.833-0	8.574-0	4.007-0	2.468-0	8.058-3	1.525-0	4.275-0	1.151-0	4.411-2
4.089-0		5.909-0	8.686-0	3.951-0	2.380-0	8.845-3	1.562-0	4.463-0	1.279-0	4.649-2
4.396-0		6.020-0	8.940-0	3.672-0	2.285-0	9.706-3	1.578-0	3.848-0	1.419-0	4.876-2
4.704-0		6.145-0	9.104-0	3.799-0	2.196-0	1.051-2	1.592-0	3.922-0	1.559-0	5.089-2
4.991-0		6.159-0	9.309-0	3.790-0	2.167-0	1.142-2	1.611-0	4.055-0	1.650-0	5.302-2
5.353-0		6.070-0	9.373-0	3.846-0	2.201-0	1.237-2	1.633-0	4.241-0	1.802-0	5.592-2
5.638-0		5.900-0	9.408-0	3.944-0	2.275-0	1.336-2	1.655-0	4.434-0	1.916-0	5.861-2
6.042-0		5.893-0	9.493-0	3.961-0	2.268-0	1.437-2	1.679-0	4.623-0	2.035-0	6.130-2
6.367-0		5.812-0	9.555-0	4.016-0	2.300-0	1.536-2	1.701-0	4.803-0	2.152-0	6.566-2
6.737-0		5.723-0	9.633-0	4.079-0	2.336-0	1.649-2	1.727-0	5.004-0	2.284-0	6.894-2
7.156-0		5.613-0	9.810-0	4.144-0	2.377-0	1.771-2	1.749-0	5.182-0	2.404-0	6.062-2
7.548-0		5.576-0	1.016-1	4.186-0	2.417-0	1.888-2	1.751-0	5.340-0	2.472-0	6.359-2
8.010-0		5.528-0	1.053-1	4.227-0	2.457-0	2.007-2	1.750-0	5.495-0	2.533-0	6.911-2
8.327-0		5.561-0	1.067-1	4.275-0	2.503-0	2.140-2	1.750-0	5.655-0	2.586-0	6.117-2
8.787-0		5.408-0	1.073-1	4.317-0	2.544-0	2.269-2	1.750-0	5.806-0	2.630-0	6.325-2
9.177-0		5.401-0	1.081-1	4.322-0	2.548-0	2.402-2	1.750-0	5.927-0	2.661-0	6.257-2
9.665-0		5.430-0	1.093-1	4.299-0	2.524-0	2.545-2	1.750-0	6.049-0	2.690-0	6.835-2
1.012-1		5.467-0	1.103-1	4.270-0	2.493-0	2.682-2	1.750-0	6.135-0	2.670-0	7.146-2
1.058-1		5.503-0	1.110-1	4.242-0	2.463-0	2.813-2	1.750-0	6.206-0	2.627-0	7.463-2
1.101-1		5.563-0	1.120-1	4.196-0	2.424-0	2.955-2	1.744-0	6.326-0	2.540-0	7.819-2
1.155-1		5.640-0	1.134-1	4.139-0	2.373-0	3.099-2	1.735-0	6.482-0	2.413-0	8.197-2
1.194-1		5.705-0	1.142-1	4.052-0	2.325-0	3.239-2	1.734-0	6.475-0	2.271-0	8.585-2
1.250-1		5.766-0	1.145-1	4.048-0	2.272-0	3.390-2	1.743-0	6.290-0	2.115-0	9.069-2
1.307-1		5.830-0	1.152-1	3.998-0	2.219-0	3.551-2	1.743-0	6.028-0	2.005-0	9.599-2
1.354-1		5.930-0	1.172-1	3.936-0	2.180-0	3.688-2	1.744-0	5.766-0	1.970-0	9.909-2
1.386-1		6.001-0	1.187-1	3.890-0	2.150-0	3.795-2	1.702-0	5.587-0	1.962-0	1.017-1
1.413-1		6.043-0	1.193-1	3.859-0	2.123-0	3.835-2	1.698-0	5.517-0	2.030-0	1.044-1
1.441-1		6.090-0	1.196-1	3.833-0	2.098-0	3.916-2	1.695-0	5.563-0	2.124-0	1.070-1
1.468-1		6.129-0	1.199-1	3.809-0	2.076-0	4.027-2	1.692-0	5.391-0	2.241-0	1.106-1
1.519-1		6.182-0	1.204-1	3.776-0	2.047-0	4.144-2	1.689-0	5.348-0	2.365-0	1.156-1
1.575-1		6.239-0	1.209-1	3.741-0	2.016-0	4.259-2	1.683-0	5.333-0	2.486-0	1.212-1
1.633-1		6.299-0	1.210-1	3.706-0	1.984-0	4.376-2	1.678-0	5.384-0	2.619-0	1.270-1
1.692-1		6.361-0	1.205-1	3.670-0	1.951-0	4.495-2	1.673-0	5.470-0	2.756-0	1.331-1
1.752-1		6.426-0	1.208-1	3.633-0	1.918-0	4.616-2	1.668-0	5.600-0	2.901-0	1.395-1
1.813-1		6.493-0	1.208-1	3.595-0	1.885-0	4.739-2	1.663-0	5.757-0	3.051-0	1.463-1
1.875-1		6.597-0	1.213-1	3.538-0	1.834-0	4.925-2	1.655-0	5.995-0	3.278-0	1.560-1
2.000-1										
RESONANCE INTEGRALS				1.292-2	2.124-2	1.077-0	3.694-0	1.457-1		
MAXWELLIAN AVERAGES				5.406-0	6.243-0	1.630-1			5.493-1	
1/E AVERAGES				7.383-0	7.111-0	6.152-2	2.111-1	8.322-1		
FISSION AVERAGES				5.883-0	5.271-0	6.717-3	6.056-1	1.633-0		
FUSION AVERAGES				3.889-0	2.145-0	3.774-2	1.707-0	5.618-0		

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ATOMIC WEIGHT 9.2906+1		DENSITY 8.5700+0 GRAMS/CC							
ENERGY	HFP (CM)		CROSS SECTION (BARNs)				ENERGY DEPOSIT(MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINFDEF	GAM-PROD.	TOTAL	LOCAL
1.307-9	2.000+0	2.009+0	9.000+0	5.600+0	3.400+0	0	9.690+0	2.731+0	1.128+4
5.227-5	2.467+0	2.481+0	7.298+0	5.600+0	1.698+0	0	4.838+0	1.682+0	6.945-5
2.091-8	2.675+0	2.691+0	6.730+0	5.600+0	1.130+0	0	3.221+0	1.214+0	5.014-5
3.267-8	2.760+0	2.777+0	6.523+0	5.600+0	9.233-1	0	2.632+0	1.023+0	4.226-5
4.704-7	2.845+0	2.864+0	6.227+0	5.600+0	7.766-1	0	2.071+0	8.303+0	3.423-5
9.332-6	2.919+0	2.939+0	6.167+0	5.600+0	5.667-1	0	1.615+0	6.644+0	2.745-5
1.307-7	2.968+0	2.988+0	6.064+0	5.600+0	4.044-1	0	1.324+0	5.537+0	2.288-5
1.882-7	3.004+0	3.025+0	5.992+0	5.600+0	3.918-1	0	1.117+0	4.728+0	1.954-5
2.561-7	3.031+0	3.052+0	5.940+0	5.600+0	3.397-1	0	9.680-1	4.134+0	1.709-5
3.345-7	3.151+0	3.072+0	5.300+0	5.600+0	2.998-1	0	8.544-1	3.674+0	1.520-5
4.234-7	3.057+0	3.088+0	5.870+0	5.600+0	2.696-1	0	7.693+0	3.321+0	1.374-5
5.123-7	3.586+0	3.108+0	5.833+0	5.600+0	2.327-1	0	6.631+0	2.894+0	1.195-5
7.527-7	3.109+0	3.131+0	5.790+0	5.600+0	1.866-1	0	5.404+0	2.368+0	9.828-6
1.176-6	3.122+0	3.144+0	5.756+0	5.600+0	1.662-1	0	4.735+0	2.082+0	8.668-6
1.511-6	3.134+0	3.157+0	5.743+0	5.600+0	1.432-1	0	4.082+0	1.803+0	7.527-6
2.091-6	3.144+0	3.167+0	5.725+0	5.600+0	1.294-1	0	3.673+0	1.583+0	6.633-6
2.741-6	3.152+0	3.174+0	5.712+0	5.600+0	1.117-1	0	3.185+0	1.444+0	5.963-6
3.553-6	3.160+0	3.183+0	5.686+0	5.600+0	9.942-2	0	2.731+0	1.216+0	5.177-6
4.704-6	3.155+0	3.180+0	5.687+0	5.600+0	8.695-2	0	2.789+0	1.105+0	4.751-6
5.658-6	3.170+0	3.192+0	5.679+0	5.600+0	7.926-2	0	2.259+0	1.009+0	4.382-6
6.737-6	3.175+0	3.198+0	5.669+0	5.600+0	6.947-2	0	1.980+0	8.859+0	2.907-6
8.322-6	3.179+0	3.202+0	5.663+0	5.500+0	6.309-2	0	1.798+0	8.154+0	2.613-6
9.682-6	3.181+0	3.204+0	5.660+0	5.600+0	5.982-2	0	1.705+0	7.442+0	2.348-6
1.176-5	3.183+0	3.205+0	5.746+0	5.600+0	5.577-2	0	1.589+0	6.29+0	2.314-6
1.511-5	3.189+0	3.208+0	5.704+0	5.600+0	5.185-2	0	1.466+0	5.833+0	2.135-6
1.981-5	3.187+0	3.210+0	5.643+0	5.600+0	4.826-2	0	1.375+0	5.17+0	2.001-6
1.581-5	3.186+0	3.211+0	5.646+0	5.600+0	4.639-2	0	1.322+0	5.440+0	2.540-6
1.758-5	3.189+0	3.212+0	5.645+0	5.600+0	5.512-2	0	1.286+0	5.779+0	2.914-6
1.882-5	3.190+0	3.213+0	5.644+0	5.600+0	4.399-2	0	1.244+0	5.635+0	2.896-6
2.075-5	3.190+0	3.213+0	5.643+0	5.600+0	4.257-2	0	1.213+0	5.459+0	2.874-6
2.277-5	3.191+0	3.214+0	5.641+0	5.600+0	4.138-2	0	1.178+0	5.303+0	2.855-6
2.417-5	3.191+0	3.214+0	5.641+0	5.600+0	4.065-2	0	1.159+0	5.211+0	2.854-6
2.561-5	3.192+0	3.215+0	5.640+0	5.600+0	4.005-2	0	1.141+0	5.134+0	2.861-6
2.710-5	3.192+0	3.215+0	5.640+0	5.600+0	4.021-2	0	1.146+0	5.155+0	2.913-6
2.862-5	3.191+0	3.215+0	5.640+0	5.600+0	4.050-2	0	1.154+0	5.141+0	2.962-6
2.940-5	3.190+0	3.213+0	5.643+0	5.600+0	4.326-2	0	1.232+0	5.541+0	2.3154-6
3.059-5	3.178+0	3.201+0	5.665+0	5.600+0	6.497-2	0	1.652+0	8.233+0	4.469-6
3.345-5	3.362+0	2.574+0	7.632+0	5.600+0	2.022+0	0	5.764+0	1.918+0	8.911+5
3.601-5	2.941+0	2.960+0	6.121+0	5.600+0	5.212-1	0	1.485+0	6.156+0	1.921-5
3.866-5	3.175+0	3.196+0	5.670+0	5.600+0	6.951-2	0	1.981+0	8.854+0	4.971-6
4.048-5	2.598+0	2.613+0	6.929+0	5.600+0	1.329+0	0	3.786+0	1.386+0	6.593-5
4.234-5	2.599+0	2.412+0	7.303+0	5.500+0	1.903+0	0	5.422+0	1.833+0	8.706-5
4.359-5	3.168+0	3.191+0	5.682+0	5.600+0	8.222-2	0	2.343+0	1.046+0	1.5892-6
4.619-5	3.191+0	3.214+0	5.641+0	5.600+0	4.070-2	0	1.160+0	5.216+0	2.472-6
4.717-5	3.191+0	3.215+0	5.635+0	5.600+0	3.512-2	0	1.001+0	4.506+0	3.175-6
4.918-5	3.196+0	3.220+0	5.632+0	5.600+0	3.181-2	0	9.067+0	4.084+0	3.028-6
5.123-5	3.197+0	3.221+0	5.630+0	5.600+0	3.000-2	0	8.550+0	3.853+0	2.971-6
5.332-5	3.198+0	3.221+0	5.629+0	5.600+0	2.892-2	0	8.127+0	3.663+0	2.949-6
5.654-5	3.199+0	3.222+0	5.627+0	5.600+0	2.750-2	0	7.637+0	3.533+0	2.942-6
5.763-5	3.199+0	3.223+0	5.627+0	5.600+0	2.667-2	0	7.601+0	3.427+0	2.947-6
5.997-5	3.200+0	3.223+0	5.626+0	5.600+0	2.583-2	0	7.351+0	3.319+0	2.966-6
6.325-5	3.200+0	3.223+0	5.626+0	5.600+0	2.585-2	0	7.311+0	3.297+0	3.014-6
6.557-5	3.200+0	3.223+0	5.626+0	5.600+0	2.556-2	0	7.285+0	3.285+0	3.053-6
6.774-5	3.200+0	3.223+0	5.625+0	5.600+0	2.544-2	0	7.249+0	3.269+0	3.106-6
7.034-5	3.200+0	3.222+0	5.625+0	5.600+0	2.531-2	0	7.214+0	3.253+0	3.160-6
7.155-5	3.200+0	3.223+0	5.625+0	5.600+0	2.518-2	0	7.177+0	3.237+0	3.215-6
7.527-5	3.200+0	3.223+0	5.625+0	5.600+0	2.506-2	0	7.142+0	3.221+0	3.286-6
7.780-5	3.200+0	3.223+0	5.625+0	5.600+0	2.528-2	0	7.205+0	3.250+0	3.350-6
7.938-5	3.200+0	3.223+0	5.626+0	5.600+0	2.562-2	0	7.302+0	3.293+0	3.422-6
8.167-5	3.200+0	3.223+0	5.626+0	5.600+0	2.615-2	0	7.454+0	3.361+0	3.525-6
8.431-5	3.198+0	3.221+0	5.628+0	5.600+0	2.603-2	0	8.154+0	3.677+0	3.778-6
8.244-5	3.191+0	3.214+0	5.642+0	5.600+0	4.213-2	0	1.201+0	5.399+0	4.785-6

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ATOMIC WEIGHT 9.2906 ± 1		DENSITY 8.5700 ± 0 GRAMS/CC							
ENERGY	HFP (CM)		CROSS SECT. (CM ²) (BARN)					ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	3.037-0	3.057-0	5.928-0	5.600-0	3.267-1	9.355-1	4.003-1	2.750-5	
9.386-5	2.229-0	2.241-0	8.074-0	5.600-0	2.474-1	7.052-0	2.216-0	1.215-4	
9.668-5	3.146-0	3.109-0	5.722-0	5.600-0	1.221-1	3.481-1	1.543-1	1.045-5	
9.811-5	3.101-0	3.123-0	5.806-0	5.600-0	2.056-1	5.860-1	2.581-1	1.616-5	
1.025-4	2.603-0	2.616-0	6.923-0	5.600-0	1.323-0	3.770-0	1.382-0	7.885-5	
1.099-4	3.132-0	3.154-0	5.747-0	5.600-0	1.473-1	4.199-1	1.653-1	1.294-5	
1.176-4	1.197-0	1.201-0	1.504-0	6.109-0	9.926-0	2.544-1	4.292-0	2.484-4	
1.256-4	3.106-0	3.128-0	5.796-0	5.590-0	3.833-2	1.093-1	4.782-2	5.557-6	
1.334-4	3.157-0	3.180-0	5.702-0	5.677-0	2.504-2	7.138-2	3.176-2	4.810-6	
1.406-4	3.210-0	3.234-0	5.607-0	5.584-0	2.328-2	6.635-2	2.002-2	4.924-6	
1.511-4	3.271-0	3.295-0	5.503-0	5.478-0	2.445-2	6.964-2	2.210-2	5.300-6	
1.601-4	3.329-0	3.352-0	5.409-0	5.382-0	2.887-2	9.227-2	2.859-2	5.945-6	
1.694-4	3.382-0	3.406-0	5.323-0	5.279-0	4.458-2	1.271-1	6.056-2	7.616-6	
1.789-4	2.297-0	2.319-0	5.450-0	5.052-0	4.085-1	1.164-0	5.403-1	3.962-5	
1.887-4	1.686-1	1.694-1	4.684-0	1.444-1	3.442-1	9.811-1	5.096-0	3.469-4	
1.988-4	2.654-0	2.672-0	6.783-0	6.372-0	4.109-1	1.171-0	4.380-1	3.418-5	
2.091-4	2.901-0	2.921-0	6.205-0	5.887-0	3.180-1	9.063-2	2.725-1	3.249-5	
2.741-4	3.081-0	3.102-0	5.843-0	5.653-0	2.800-1	7.990-1	3.455-1	3.594-5	
3.267-4	1.002-0	1.006-0	1.796-1	9.048-0	8.912-0	2.540-0	3.588-0	3.331-4	
3.811-4	2.580-0	2.597-0	5.976-0	6.187-0	7.889-1	2.243-0	8.177-1	9.042-5	
4.704-4	3.048-0	3.069-0	5.907-0	5.918-0	8.893-2	2.531-1	1.089-1	2.201-5	
4.991-4	2.987-0	3.008-0	5.026-0	5.630-0	3.351-1	9.579-1	4.033-1	5.502-5	
5.658-4	3.101-0	3.123-0	5.805-0	5.501-0	3.036-1	8.652-1	3.781-1	5.847-5	
6.042-4	3.031-0	3.052-0	5.938-0	5.547-0	3.914-1	1.116-0	4.763-1	7.181-5	
6.367-4	2.957-0	2.976-0	6.089-0	5.271-0	7.175-1	2.045-0	8.522-1	1.250-4	
7.156-4	1.625-0	1.634-0	1.108-1	8.315-0	2.752-0	7.872-2	1.803-0	2.870-4	
8.322-4	3.535-0	3.559-0	5.093-0	4.917-0	1.762-1	5.021-1	2.501-1	5.929-5	
9.177-4	6.612-1	6.660-1	2.090-1	1.612-1	4.786-0	1.364-1	1.655-0	3.039-4	
1.058-3	3.705-0	1.715-0	1.055-1	8.155-0	2.399-0	6.836-1	1.643-0	3.522-4	
1.307-3	3.350-0	1.358-0	1.333-1	1.075-1	2.569-0	7.379-0	1.404-0	3.638-4	
1.581-3	1.794-0	1.805-0	1.004-1	8.455-0	1.582-0	4.510-0	1.140-0	3.520-4	
1.882-3	3.125-0	1.735-0	1.044-1	8.661-0	1.776-0	5.082-0	1.230-0	4.368-4	
2.208-3	1.297-0	1.305-0	1.388-1	1.200-1	1.882-0	5.367-0	9.807-1	4.039-4	
2.561-3	1.412-0	1.421-0	1.275-1	1.155-1	1.199-0	3.418-0	6.800-1	3.344-4	
2.900-3	2.385-0	2.400-0	7.549-0	6.840-0	7.096-1	2.023-0	6.800-1	3.767-4	
3.345-3	1.673-0	1.683-0	1.076-1	9.434-0	1.327-0	3.785-0	8.923-1	5.341-4	
3.777-3	1.964-0	1.976-0	9.167-0	6.123-0	1.044-0	2.976-0	8.237-1	5.593-4	
4.234-3	1.992-0	2.005-0	9.037-0	6.239-0	7.981-1	2.276-0	6.391-1	5.673-4	
5.763-3	1.721-0	1.732-0	1.046-1	9.528-0	9.337-1	6.459-1	7.314-1		
7.527-3	2.521-0	2.538-0	7.141-0	6.648-0	4.927-1	1.30-0	4.986-1	7.888-4	
1.025-2	2.575-0	2.593-0	6.992-0	6.594-0	3.984-1	1.955-0	4.129-1	9.801-4	
1.511-2	2.618-0	2.646-0	6.875-0	6.548-0	3.269-1	1.765-0	3.450-1	1.218-3	
2.091-2	2.691-0	2.690-0	6.791-0	6.518-0	2.729-1	1.563-0	2.919-1	1.428-3	
2.646-2	2.659-0	2.710-0	6.769-0	6.537-0	2.322-1	1.597-1	2.496-1	1.608-3	
3.267-2	2.634-0	2.696-0	6.835-0	6.635-0	1.997-1	1.230-1	1.120-1	1.775-3	
3.953-2	2.603-0	2.678-0	6.917-0	6.744-0	1.726-1	2.657-1	6.643-1	1.824-3	
4.704-2	2.560-0	2.648-0	7.033-0	6.880-0	1.523-1	4.466-1	6.243-1	2.177-3	
5.761-2	2.501-0	2.609-0	7.196-0	7.054-0	1.419-1	6.359-1	5.468-1	2.527-3	
7.002-2	2.438-0	2.565-0	7.385-0	7.247-0	1.374-1	7.701-1	4.743-1	2.930-3	
8.322-2	2.370-0	2.521-0	7.594-0	7.465-0	1.277-1	1.451-1	3.924-1	3.305-3	
9.891-2	2.191-0	2.356-0	8.217-0	8.109-0	1.041-1	4.190-1	3.256-1	3.656-3	
1.307-1	2.044-0	2.259-0	8.809-0	8.715-0	9.556-1	2.114-1	2.789-1	4.427-3	
1.820-1	1.928-0	2.227-0	9.338-0	9.249-0	7.715-2	1.158-2	2.387-1	6.941-3	5.128-3
2.075-1	1.912-0	2.256-0	9.413-0	9.326-0	7.305-2	1.313-2	2.273-1	6.189-3	5.712-3
2.417-1	1.917-0	2.317-0	9.390-0	9.302-0	6.924-2	1.447-2	2.228-1	5.989-3	6.316-3
2.710-1	1.921-0	2.371-0	9.372-0	9.290-0	6.610-2	1.556-2	2.187-1	5.784-3	6.783-3
2.940-1	1.936-0	2.431-0	9.300-0	9.220-0	6.317-2	1.690-2	2.145-1	5.653-3	7.341-3
3.345-1	1.972-0	2.539-0	9.130-0	9.051-0	5.063-2	1.866-2	2.103-1	5.622-3	6.118-3
3.777-1	2.014-0	2.664-0	8.936-0	8.857-0	5.806-2	2.085-2	2.061-1	5.598-3	6.909-3
4.234-1	2.107-0	2.856-0	8.544-0	8.462-0	5.495-2	2.208-2	2.012-1	5.675-3	1.012-2
5.123-1	2.235-0	3.158-0	7.954-0	7.965-0	5.167-2	3.707-2	1.954-1	5.858-3	1.203-2
6.325-1	2.381-0	3.505-0	7.561-0	7.466-0	4.822-2	4.434-2	1.968-1	6.055-3	2.146-2

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ENDL 175 Group Neutron Constants

41-Nb-93

ATOMIC WEIGHT 9.2906* 1		DENSITY 8.5700* 0 GRAMS/CC									
ENERGY		MFP (CM)		CROSS SECTION (BARN)						ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.		TOTAL	LOCAL
7.527-1	2.544+0	3.841+0	7.076+0	6.831+0	4.446+2	2.005-1	3.004-1	7.774-2	1.608-2		
8.834-1	2.712+0	4.208+0	6.638+0	6.094+0	3.873-2	5.053-1	5.176-1	1.143-3	1.754-2		
1.025+0	2.893+0	4.520+0	6.222+0	5.240+0	3.017-2	9.527-1	1.096+0	1.783-1	1.840-2		
1.176+0	3.059+0	4.809+0	5.884+0	4.515+0	2.269-2	1.314+0	2.032+0	2.451-1	1.935-2		
1.338+0	3.275+0	5.084+0	5.489+0	3.903+0	1.585-2	1.571+0	3.183+0	3.023-1	2.060-2		
1.511+0	3.467+0	5.206+0	5.192+0	3.377+0	1.308-2	1.802+0	4.047+0	3.868-1	2.295-2		
1.694+0	3.597+0	5.175+0	5.004+0	2.956+0	1.139-2	2.027+0	4.618+0	4.952-1	2.565-2		
1.887+0	3.712+0	5.180+0	4.650+0	2.705+0	9.640+0	2.135+0	5.113+0	5.856-1	2.826-2		
2.091+0	3.830+0	5.233+0	4.700+0	2.463+0	8.114+0	2.229+0	5.257+0	6.905-1	3.070-2		
2.305+0	3.972+0	5.362+0	4.532+0	2.249+0	6.588+0	2.276+0	5.329+0	8.008-1	3.309-2		
2.530+0	4.161+0	5.632+0	4.326+0	2.120+0	5.756+0	2.200+0	5.404+0	9.590-1	3.590-2		
2.741+0	4.363+0	5.901+0	4.126+0	2.015+0	5.323+0	2.106+0	5.488+0	10.880-1	3.903-2		
3.011+0	4.544+0	6.092+0	3.962+0	1.879+0	4.795+0	2.078+0	5.511+0	1.004+0	4.187-2		
3.267+0	4.688+0	6.284+0	3.804+0	1.790+0	4.226+0	2.045+0	5.472+0	1.115+0	4.405-2		
3.533+0	4.842+0	6.490+0	3.718+0	1.711+0	3.182+0	2.003+0	5.370+0	1.247+0	4.652-2		
3.811+0	4.864+0	6.560+0	3.701+0	1.742+0	4.460+0	1.954+0	5.240+0	1.357+0	4.963-2		
4.069+0	4.864+0	6.565+0	3.718+0	1.776+0	4.630+0	1.937+0	5.254+0	1.491+0	5.060-2		
4.396+0	4.801+0	6.586+0	3.749+0	1.820+0	4.794+0	1.925+0	5.149+0	1.643+0	5.255-2		
4.704+0	4.775+0	6.652+0	3.770+0	1.878+0	5.034+0	1.887+0	5.316+0	1.760+0	5.448-2		
4.991+0	4.745+0	6.729+0	3.794+0	1.948+0	5.568+0	1.840+0	5.682+0	1.877+0	5.644-2		
5.353+0	4.707+0	6.884+0	3.824+0	2.030+0	6.647+0	1.788+0	5.833+0	1.965+0	5.827-2		
5.658+0	4.636+0	6.970+0	3.883+0	2.141+0	7.607+0	1.734+0	5.978+0	2.085+0	5.972-2		
6.042+0	4.554+0	7.062+0	3.953+0	2.240+0	8.646+0	1.704+0	6.127+0	2.168+0	6.139-2		
6.367+0	4.472+0	7.117+0	4.025+0	2.321+0	9.909+0	1.694+0	6.273+0	2.232+0	6.320-2		
6.737+0	4.383+0	7.192+0	4.107+0	2.444+0	1.211+2	1.681+0	6.440+0	2.303+0	6.532-2		
7.156+0	4.305+0	7.314+0	4.182+0	2.509+0	1.450+2	1.658+0	6.592+0	2.378+0	6.742-2		
7.548+0	4.263+0	7.453+0	4.223+0	2.571+0	1.730+2	1.635+0	6.743+0	2.458+0	6.946-2		
7.910+0	4.239+0	7.608+0	4.247+0	2.615+0	2.051+2	1.611+0	6.904+0	2.542+0	7.175-2		
8.322+0	4.212+0	7.779+0	4.274+0	2.666+0	2.474+2	1.584+0	7.092+0	2.644+0	7.450-2		
8.787+0	4.190+0	7.955+0	4.296+0	2.701+0	2.696+2	1.568+0	7.003+0	2.712+0	7.684-2		
9.177+0	4.194+0	8.127+0	4.292+0	2.716+0	2.972+2	1.546+0	6.862+0	2.603+0	7.930-2		
9.665+0	4.201+0	8.267+0	4.285+0	2.707+0	3.270+2	1.546+0	6.210+0	2.442+0	8.254-2		
1.012+1	4.222+0	8.434+0	4.264+0	2.688+0	3.571+2	1.540+0	6.911+0	2.203+0	8.590-2		
1.058+1	4.243+0	8.517+0	4.242+0	2.657+0	3.867+2	1.546+0	6.642+0	1.956+0	8.952-2		
1.101+1	4.273+0	8.597+0	4.213+0	2.617+0	4.106+2	1.555+0	6.585+0	1.740+0	9.333-2		
1.155+1	4.307+0	8.790+0	4.180+0	2.604+0	4.296+2	1.533+0	6.554+0	1.551+0	9.654-2		
1.199+1	4.340+0	8.869+0	4.148+0	2.562+0	4.486+2	1.542+0	6.573+0	1.496+0	1.004-1		
1.250+1	4.391+0	8.942+0	4.100+0	2.472+0	4.700+2	1.581+0	6.613+0	1.597+0	1.064-1		
1.307+1	4.442+0	9.067+0	4.053+0	2.397+0	4.892+2	1.607+0	6.599+0	1.757+0	1.127-1		
1.359+1	4.484+0	9.201+0	4.014+0	2.339+0	4.976+2	1.625+0	6.543+0	1.901+0	1.174-1		
1.386+1	4.522+0	9.345+0	3.981+0	2.299+0	4.997+2	1.632+0	6.457+0	2.009+0	1.206-1		
1.413+1	4.541+0	9.390+0	3.964+0	2.275+0	4.999+2	1.639+0	6.361+0	2.103+0	1.233-1		
1.441+1	4.560+0	9.416+0	3.947+0	2.253+0	4.999+2	1.644+0	6.272+0	2.197+0	1.260-1		
1.468+1	4.599+0	9.781+0	3.915+0	2.222+0	4.995+2	1.643+0	6.264+0	2.331+0	1.298-1		
1.519+1	4.656+0	9.670+0	3.866+0	2.179+0	4.966+2	1.637+0	6.299+0	2.532+0	1.364-1		
1.575+1	4.719+0	9.588+0	3.815+0	2.139+0	4.920+2	1.626+0	6.321+0	2.749+0	1.437-1		
1.633+1	4.774+0	9.635+0	3.771+0	2.124+0	4.877+2	1.598+0	6.266+0	2.945+0	1.505-1		
1.692+1	4.829+0	9.618+0	3.728+0	2.072+0	4.833+2	1.607+0	6.668+0	3.138+0	1.583-1		
1.752+1	4.885+0	9.583+0	3.685+0	2.015+0	4.800+2	1.622+0	6.040+0	3.336+0	1.660-1		
1.813+1	4.941+0	9.622+0	3.643+0	1.983+0	4.774+2	1.613+0	6.574+0	3.512+0	1.727-1		
1.875+1	5.025+0	9.781+0	3.583+0	1.966+0	4.736+2	1.569+0	6.544+0	3.743+0	1.819-1		
2.000+1											
RESONANCE INTEGRALS				1.241+2	1.086+2	1.016+2	1.354+2	4.592+1			
MAXWELLIAN AVERAGES				6.628+0	5.600+0	1.028+0		2.931+0			
1/E AVERAGES				7.091+0	6.204+0	5.804+0	1.3058-1	2.623+0			
FISSION AVERAGES				5.687+0	4.336+0	2.541+0	1.324+0	3.251+0			
FUSION AVERAGES				3.982+0	2.300+0	4.984+0	1.632+0	6.432+0			

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42-Mo-Nat

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ENDL 175 Group Neutron Constants

42-Mo-Nat

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ENDL 175 Group Neutron Constants

42-Mo-Nat

ATOMIC WEIGHT 9.9904				DENSITY 1.0220 g/CC				
ENERGY		MFP (CM)		CROSS SECTION (BARNs)			ENERGY DEPOSITION (MEV)	
MLV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	TOTAL	LOCAL
1.307-9	1.183+0	1.186+0	1.318+1	5.300+0	7.877+0	2.812+1	0.231+0	2.532+4
5.227-9	1.687+0	1.694+0	9.240+0	5.300+0	3.940+0	3.406+1	3.000+0	1.806+4
2.091-8	1.967+0	1.976+0	7.927+0	5.300+0	2.627+0	9.377+0	2.899+0	1.503+4
3.267-8	2.045+0	2.103+0	7.449+0	5.300+0	2.149+0	7.674+0	2.525+0	1.222+4
4.704-8	2.230+0	2.242+0	6.991+0	5.300+0	1.691+0	6.038+0	2.117+0	1.025+4
8.322-8	2.357+0	2.370+0	6.615+0	5.300+0	1.315+0	4.694+0	1.739+0	8.420+4
1.307-7	2.445+0	2.460+0	6.374+0	5.300+0	1.074+0	3.836+0	1.475+0	7.142+4
1.892-7	2.511+0	2.526+0	6.209+0	5.300+0	9.091+0	3.245+0	1.261+0	6.204+4
2.561-7	2.561+0	2.576+0	6.068+0	5.300+0	7.878+0	2.812+0	1.132+0	5.485+4
3.345-7	2.600+0	2.616+0	5.995+0	5.300+0	6.951+0	2.482+0	1.050+0	4.916+4
4.234-7	2.631+0	2.647+0	5.925+0	5.300+0	6.252+0	2.232+0	9.233+1	4.475+4
5.123-7	2.669+0	2.687+0	5.840+0	5.300+0	5.335+0	1.926+0	8.085+1	3.920+4
7.527-7	2.716+0	2.734+0	5.739+0	5.300+0	4.387+0	1.566+0	6.689+1	3.247+4
1.176-6	2.746+0	2.764+0	5.678+0	5.300+0	3.777+0	1.348+0	5.820+1	2.825+4
1.511-6	2.767+0	2.785+0	5.634+0	5.300+0	3.340+0	1.192+0	5.187+1	2.525+4
2.091-6	2.786+0	2.805+0	5.595+0	5.300+0	2.946+0	1.052+0	4.603+1	2.248+4
2.741-6	2.802+0	2.821+0	5.564+0	5.300+0	2.637+0	9.415+1	4.148+1	2.028+4
3.533-6	2.816+0	2.835+0	5.535+0	5.300+0	2.351+0	8.394+1	3.717+1	1.811+4
4.704-6	2.827+0	2.847+0	5.513+0	5.300+0	2.131+0	7.608+1	3.382+1	1.567+4
5.658-6	2.831+0	2.850+0	5.506+0	5.300+0	2.058+0	7.349+1	3.271+1	1.619+5
6.737-6	2.839+0	2.859+0	5.500+0	5.300+0	2.000+0	8.925+1	3.942+1	1.956+5
8.322-6	2.787+0	2.785+0	5.634+0	5.300+0	3.340+0	1.192+0	5.187+1	2.581+5
9.620-6	2.678+0	2.695+0	5.621+0	5.338+0	4.831+0	1.725+0	7.262+1	3.620+5
1.101-5	2.559+0	1.066+0	1.472+1	1.395+1	7.635+1	2.726+0	4.537+1	2.282+5
1.307-5	2.615+0	2.631+0	5.962+0	5.400+0	5.619+0	2.006+0	8.246+1	4.146+5
1.468-5	2.723+0	2.741+0	5.724+0	5.400+0	3.241+0	1.157+0	4.954+1	2.513+5
1.581-5	2.780+0	2.799+0	5.607+0	5.400+0	2.081+0	7.382+1	3.227+1	1.656+5
1.758-5	2.791+0	2.810+0	5.586+0	5.400+0	1.850+0	6.640+1	2.914+1	1.506+5
1.882-5	2.787+0	2.806+0	5.594+0	5.400+0	1.939+0	6.923+1	3.033+1	1.575+5
2.075-5	2.771+0	2.790+0	5.625+0	5.400+0	2.255+0	8.050+1	3.507+1	1.681+5
2.277-5	2.741+0	2.759+0	5.687+0	5.400+0	2.873+0	1.226+0	4.421+1	2.303+5
2.417-5	2.712+0	2.730+0	5.748+0	5.400+0	3.477+0	1.241+0	5.294+1	2.759+5
2.561-5	2.666+0	2.683+0	5.848+0	5.400+0	4.481+0	1.600+0	6.705+1	3.496+5
2.710-5	2.568+0	2.584+0	6.071+0	5.400+0	6.710+0	2.395+0	9.671+1	5.037+5
2.862-5	2.474+0	2.489+0	6.301+0	5.400+0	9.005+0	3.216+0	1.951+1	6.517+5
2.940-5	2.356+0	2.370+0	6.615+0	5.400+0	1.215+0	4.339+0	1.607+0	8.381+5
3.099-5	2.114+0	2.125+0	7.375+0	5.400+0	1.975+0	7.004+0	2.343+0	1.225+6
3.345-5	1.765+0	1.772+0	8.834+0	5.400+0	3.434+0	1.224+0	3.401+0	1.785+6
3.601-5	1.395+0	1.399+0	1.125+1	5.400+0	5.852+0	2.089+0	4.651+0	2.399+6
3.866-5	1.070+0	1.070+0	1.456+1	5.626+0	8.937+0	3.181+0	5.370+0	2.843+6
4.049-5	5.669+1	5.691+1	2.750+1	1.500+1	1.250+1	4.462+1	3.970+1	2.116+6
4.234-5	2.422+1	2.435+1	6.436+1	4.842+1	1.594+1	5.690+1	2.167+1	1.160+6
4.329-5	3.145+1	3.166+1	4.957+1	4.747+1	2.099+1	7.993+1	3.705+1	2.069+6
4.619-5	1.317+1	1.325+1	1.183+2	9.707+1	2.126+1	7.589+1	1.572+1	8.517+6
4.717-5	4.391+1	4.405+1	3.550+1	1.607+1	1.942+1	5.934+1	4.788+1	2.583+6
4.918-5	5.981+1	5.997+1	2.606+1	1.032+1	1.574+1	5.619+1	5.284+1	2.862+6
5.123-5	7.321+1	7.342+1	2.129+1	8.635+1	1.266+1	4.518+1	5.201+1	2.829+6
5.332-5	9.241+1	9.266+1	1.687+1	7.153+1	9.716+1	3.469+1	6.040+1	2.757+6
5.654-5	1.095+0	1.098+0	1.424+1	6.375+0	7.861+0	2.607+0	4.932+0	2.656+6
5.763-5	1.278+0	1.282+0	1.220+1	5.747+0	6.453+0	2.304+0	4.628+0	2.556+6
6.057-5	1.451+0	1.456+0	1.075+1	5.421+0	5.325+0	1.901+0	4.336+0	2.410+6
6.325-5	1.595+0	1.561+0	1.002+1	5.335+0	4.689+0	1.674+0	4.093+0	2.288+6
6.557-5	1.635+0	1.641+0	9.535+0	5.262+0	4.266+0	1.564+0	3.935+0	2.195+6
6.674-5	1.741+0	1.748+0	8.955+0	5.180+0	3.775+0	1.448+0	3.689+0	2.079+6
7.034-5	1.844+0	1.857+0	8.431+0	5.090+0	3.342+0	1.193+0	3.468+0	1.966+6
7.155-5	1.957+0	1.966+0	7.303+0	4.997+0	2.968+0	1.060+0	3.261+0	1.858+6
7.527-5	2.094+0	2.104+0	7.443+0	4.890+0	2.563+0	9.150+0	3.013+0	1.729+6
7.780-5	2.176+0	2.188+0	7.158+0	4.808+0	2.349+0	8.387+0	2.872+0	1.636+6
7.908-5	2.261+0	2.272+0	6.895+0	4.736+0	2.159+0	7.301+0	2.743+0	1.597+6
8.167-5	2.373+0	2.385+0	6.569+0	4.638+0	1.930+0	6.891+0	2.571+0	1.498+6
8.431-5	2.516+0	2.529+0	6.195+0	4.513+0	1.688+0	6.049+0	2.176+0	1.379+6
9.834-5	2.663+0	2.677+0	5.894+0	4.386+0	1.468+0	5.242+0	2.195+0	1.299+6

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ENDL 175 Group Neutron Constants

42-Mo-Na t

ATOMIC WEIGHT		9.5940 ± 1		DENSITY				1.0220 ± 1 GRAMS/CC		
ENERGY		MFP (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
MEV	10 ⁴ A	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.10E-1	2.78E+2	2.79E+2	5.60E+3	4.28E+3	1.32E+0			4.71E+4	2.06E+2	1.12E+4
9.30E-1	2.89E+2	2.89E+2	5.49E+3	4.17E+3	1.32E+0			4.39E+4	1.99E+2	1.15E+4
9.40E-1	2.88E+2	2.90E+2	5.39E+3	4.09E+3	1.30E+0			4.54E+4	2.10E+2	1.26E+4
9.81E-1	2.86E+2	2.87E+2	5.44E+3	4.01E+3	1.43E+0			5.10E+4	2.29E+2	1.38E+4
1.0E-1	2.94E+2	2.73E+2	7.72E+3	4.00E+3	1.72E+0			6.14E+4	2.53E+2	1.59E+4
1.05E-1	2.95E+2	2.75E+2	7.59E+3	4.02E+3	1.55E+0			3.67E+4	1.89E+2	1.89E+4
1.17E-1	6.54E+3	6.68E+3	1.23E+4	2.08E+3	2.66E+0			4.51E+4	9.94E+2	6.40E+5
1.24E-1	2.00E+2	2.07E+2	7.56E+3	7.24E+3	3.18E+0			1.13E+5	3.68E+2	2.58E+5
1.33E-1	4.64E+2	4.66E+2	3.36E+3	3.04E+3	3.14E+0			1.12E+5	8.19E+2	5.49E+5
1.40E-1	1.64E+2	1.65E+2	9.45E+3	6.48E+3	2.97E+0			1.08E+5	2.75E+2	1.80E+4
1.51E-1	1.0E+2	1.08E+2	1.47E+3	1.21E+3	2.34E+0			8.36E+4	1.71E+2	9.62E+3
1.55E-1	1.31E+2	1.39E+2	1.30E+3	1.12E+3	1.68E+0			5.93E+4	1.51E+2	7.37E+3
1.69E-1	2.43E+2	2.44E+2	6.43E+3	5.22E+3	1.19E+0			4.24E+4	1.62E+2	1.13E+4
1.78E-1	2.57E+2	2.59E+2	6.05E+3	5.19E+3	8.97E+1			3.06E+4	1.24E+3	6.92E+5
1.88E-1	2.53E+2	2.63E+3	5.91E+3	5.18E+3	7.25E+1			2.59E+4	1.07E+4	7.90E+5
1.98E-1	2.61E+2	2.62E+3	5.96E+3	5.18E+3	7.97E+1			2.81E+4	1.15E+4	8.61E+5
2.03E-1	2.62E+2	2.62E+3	6.20E+3	5.15E+3	1.04E+0			3.72E+3	1.47E+1	1.16E+4
2.08E-1	2.63E+2	2.63E+3	6.12E+3	5.12E+3	1.08E+0			5.31E+4	1.57E+2	1.17E+4
2.26E-1	2.69E+2	2.71E+3	1.01E+4	1.01E+3	1.82E+0			6.87E+4	1.39E+3	1.29E+4
2.81E-1	1.35E+3	1.37E+3	1.43E+3	9.30E+2	2.13E+0			7.61E+4	1.63E+2	1.68E+4
3.70E-1	1.02E+3	1.25E+3	5.15E+3	1.31E+3	2.03E+0			7.25E+4	1.17E+2	1.29E+4
3.91E-1	1.56E+3	1.55E+3	1.00E+3	8.00E+2	1.86E+0			6.65E+4	1.61E+2	1.84E+4
5.69E-1	1.94E+3	1.93E+3	8.6E+2	6.15E+2	1.68E+0			5.95E+4	1.86E+2	2.31E+4
6.04E-1	2.27E+3	2.27E+3	6.8E+2	4.85E+2	1.55E+0			5.39E+4	2.11E+2	2.59E+4
6.36E-1	3.83E+3	3.81E+3	1.2E+3	9.86E+2	1.11E+0			5.03E+4	1.09E+2	1.48E+4
1.56E-1	2.07E+2	2.28E+3	5.55E+3	6.29E+2	1.20E+0			4.31E+4	1.40E+2	2.04E+4
6.32E-1	1.85E+3	1.84E+3	8.52E+2	7.47E+2	1.04E+0			3.73E+4	1.07E+3	1.73E+4
9.77E-1	2.51E+2	2.22E+3	7.5E+2	6.84E+2	9.08E+1			3.24E+4	1.02E+2	1.82E+4
1.05E-1	2.20E+2	2.21E+3	7.08E+2	6.29E+2	7.84E+1			2.80E+4	9.62E+1	1.97E+4
1.08E-1	1.65E+2	2.65E+3	6.16E+2	5.41E+2	1.25E+0			7.60E+4	1.61E+2	1.97E+4
1.58E-1	1.95E+2	2.29E+3	1.12E+3	6.41E+2	6.97E+1			2.55E+4	8.47E+2	2.38E+4
1.68E-1	1.08E+2	1.89E+3	8.29E+2	7.64E+2	6.99E+1			2.32E+4	6.85E+2	2.30E+4
2.08E-1	1.50E+2	1.53E+3	1.03E+3	9.75E+2	6.17E+0			2.20E+4	5.20E+2	2.11E+4
2.56E-1	2.29E+2	2.30E+3	8.62E+2	6.21E+2	5.87E+1			2.10E+4	7.56E+1	3.20E+4
2.90E-1	3.65E+2	3.71E+3	1.80E+3	1.74E+3	5.62E+1			2.07E+4	2.73E+2	1.74E+4
3.48E-1	1.41E+3	1.41E+3	1.13E+3	1.12E+3	2.92E+1			1.92E+4	6.28E+2	2.59E+4
3.77E-1	1.95E+2	2.00E+3	7.93E+2	7.31E+2	5.77E+1			1.95E+4	5.79E+1	3.66E+4
4.24E-1	1.66E+2	1.62E+3	8.34E+2	7.86E+2	4.81E+1			1.71E+4	5.04E+2	4.05E+4
5.73E-1	1.65E+2	1.66E+3	9.44E+2	9.03E+2	4.37E+1			1.56E+4	4.05E+1	4.53E+4
7.52E-1	1.55E+2	1.56E+3	9.87E+2	9.47E+2	3.96E+1			1.41E+4	3.51E+1	5.44E+4
1.02E-1	1.70E+2	1.71E+3	9.36E+2	8.82E+2	3.14E+1			1.29E+4	3.01E+1	6.93E+4
1.05E-1	1.80E+2	1.80E+3	8.69E+2	8.25E+2	2.36E+1			1.23E+4	3.16E+1	7.59E+4
2.04E-1	1.86E+2	1.88E+3	8.81E+2	8.09E+2	1.80E+1			1.03E+4	3.9E+1	1.00E+5
2.66E-1	1.94E+2	1.94E+3	9.02E+2	8.70E+2	5.31E+1			9.80E+3	1.67E+1	1.15E+5
3.26E-1	1.47E+2	1.48E+3	7.91E+2	7.78E+2	1.35E+1			7.34E+3	1.50E+1	1.34E+5
3.93E-1	2.14E+2	2.02E+3	7.75E+2	7.63E+2	1.21E+1			5.61E+3	1.38E+1	1.55E+5
4.70E-1	2.05E+2	2.03E+3	7.70E+2	7.59E+2	1.09E+1			4.03E+3	1.25E+1	1.78E+5
6.61E-1	1.94E+2	1.82E+3	8.02E+2	7.91E+2	9.73E+1			3.64E+3	1.08E+1	2.01E+5
1.0E-1	1.90E+2	1.86E+3	8.36E+2	8.25E+2	3.31E+1			3.31E+3	1.03E+1	2.57E+5
6.32E-1	1.69E+2	1.63E+3	8.81E+2	8.73E+2	7.92E+1			2.93E+3	8.13E+1	2.57E+5
7.89E-1	1.74E+2	1.63E+3	9.04E+2	8.97E+2	7.22E+1			2.63E+3	7.29E+1	3.11E+5
1.07E-1	1.74E+2	1.67E+3	9.53E+2	9.80E+2	6.60E+1			2.44E+3	6.86E+1	4.08E+5
1.80E-1	1.75E+2	1.67E+3	9.87E+2	9.81E+2	6.18E+1			2.27E+3	6.58E+1	4.91E+5
2.7E-1	1.76E+2	1.69E+3	1.04E+3	1.03E+3	5.79E+1			2.33E+3	6.79E+1	5.33E+5
3.7E-1	1.90E+2	1.80E+3	7.10E+2	6.50E+2	5.70E+1			2.56E+3	6.52E+1	6.73E+5
5.1E-1	1.82E+2	1.72E+3	6.84E+2	6.58E+2	5.54E+1			2.57E+3	6.30E+1	6.69E+5
6.9E-1	1.84E+2	1.65E+3	6.57E+2	6.49E+2	5.37E+1		3.00E-1	2.79E+3	6.26E+1	7.31E+5
9.4E-1	1.84E+2	2.22E+3	6.78E+2	6.78E+2	5.17E+1		4.24E-1	2.28E+3	6.28E+1	8.10E+5
1.2E-1	1.85E+2	2.16E+3	6.17E+2	6.26E+2	5.05E+1		6.02E-1	3.80E+3	6.32E+1	8.90E+5
1.6E-1	1.86E+2	2.00E+3	6.22E+2	6.08E+2	4.80E+1		8.74E-1	4.56E+3	6.62E+1	1.00E+6
2.1E-1	1.90E+2	2.60E+3	6.69E+2	6.69E+2	4.65E+1		1.57E-1	6.45E+3	6.54E+1	1.02E+6
2.8E-1	2.12E+2	2.83E+3	7.40E+2	7.11E+2	4.02E+1		2.51E-1	9.26E+3	7.67E+1	1.38E+6

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ENDL 175 Group Neutron Constants

42-Mo-Nat

ATOMIC WEIGHT 9.5940 ± 1			DENSITY 1.0220 ± 1 GRAMS/CC								
ENERGY MEV	MFP (CM)		CROSS SECTION (BARNs)							ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
7.527-1	2.242+0	3.079-0	6.955-0	6.537-0	3.526-2	3.816-1	1.296+0	8.789-2	1.567-2		
8.834-1	2.401+0	3.357-0	6.491+0	5.915-0	3.119-2	5.451-1	1.742+0	1.075-1	1.751-2		
1.025+0	2.538+0	3.590-0	6.142+0	5.374+0	2.733-2	7.404+1	2.308+0	1.355-1	1.936-2		
1.176+0	2.661+0	3.738-0	5.858+0	4.864+0	2.392-2	9.695+1	3.001+0	1.751-1	2.122-2		
1.338+0	2.762+0	3.825+0	5.644+0	4.359+0	2.111-2	1.264+2	3.782+0	2.332-1	2.302-2		
1.511+0	2.843+0	3.894+0	5.483+0	3.962+0	1.876-2	1.502+2	4.520+0	2.377-1	2.480-2		
1.694+0	2.974+0	4.036+0	5.242+0	3.594+0	1.679-2	1.671+2	5.044+0	3.589+0	2.674-2		
1.887+0	3.154+0	4.243+0	4.942+0	3.144+0	1.511-2	1.783+2	5.410+0	4.320-1	2.888-2		
2.091+0	3.320+0	4.460+0	4.696+0	2.862+0	1.367-2	1.820+2	5.479+0	5.032-1	3.100-2		
2.305+0	3.499+0	4.696+0	4.455+0	2.600+0	1.243-2	1.842+2	5.489+0	5.835-1	3.324-2		
2.530+0	3.619+0	4.869+0	4.307+0	2.432+0	1.140-2	1.864+2	5.468+0	6.599-1	3.528-2		
2.741+0	3.703+0	4.995+0	4.210+0	2.312+0	1.045-2	1.888+2	5.423+0	7.408-1	3.737-2		
3.011+0	3.792+0	5.151+0	4.111+0	2.201+0	9.576-3	1.900+2	5.405+0	8.357-1	3.961-2		
3.267+0	3.879+0	5.305+0	4.015+0	2.113+0	8.633-3	1.900+2	5.412+0	9.352-1	4.171-2		
3.533+0	3.974+0	5.473+0	3.923+0	2.015+0	8.184-3	1.900+2	5.326+0	1.047+0	4.391-2		
3.811+0	4.069+0	5.621+0	3.831+0	1.923+0	7.626-3	1.900+2	5.185+0	1.166+0	4.610-2		
4.069+0	4.122+0	5.729+0	3.782+0	1.877+0	7.100-3	1.898+2	5.024+0	1.291+0	4.838-2		
4.386+0	4.145+0	5.829+0	3.761+0	1.853+0	6.603-3	1.895+2	4.874+0	1.420+0	5.057-2		
4.704+0	4.119+0	5.897+0	3.735+0	1.885+0	6.200-3	1.894+2	4.817+0	1.525+0	5.242-2		
4.991+0	4.078+0	5.931+0	3.823+0	1.926+0	5.810-3	1.891+2	4.803+0	1.630+0	5.421-2		
5.353+0	4.028+0	5.991+0	3.870+0	1.376+0	5.456-3	1.889+2	4.834+0	1.729+0	5.595-2		
5.659+0	3.978+0	6.040+0	3.919+0	2.028+0	5.136-3	1.886+2	4.932+0	1.829+0	5.739-2		
6.042+0	3.928+0	6.118+0	3.969+0	2.081+0	4.787-3	1.883+2	5.049+0	1.932+0	5.863-2		
6.367+0	3.880+0	6.185+0	4.018+0	2.133+0	4.455-3	1.881+2	5.159+0	2.036+0	5.968-2		
6.737+0	3.827+0	6.270+0	4.073+0	2.191+0	4.124-3	1.878+2	5.302+0	2.152+0	6.067-2		
7.156+0	3.761+0	6.346+0	4.123+0	2.244+0	3.825-3	1.875+2	5.429+0	2.275+0	6.245-2		
7.548+0	3.741+0	6.353+0	4.167+0	2.231+0	3.581-3	1.872+2	5.564+0	2.390+0	6.428-2		
7.910+0	3.694+0	6.356+0	4.220+0	2.339+0	3.357-3	1.870+2	5.719+0	2.465+0	6.608-2		
8.322+0	3.644+0	6.350+0	4.278+0	2.394+0	3.131-3	1.868+2	5.827+0	2.414+0	6.804-2		
8.787+0	3.656+0	6.554+0	4.263+0	2.445+0	2.935-3	1.816+2	5.690+0	2.215+0	6.950-2		
9.177+0	3.513+0	6.515+0	4.315+0	2.471+0	2.756-3	1.841+2	5.808+0	1.977+0	7.160-2		
9.665+0	3.571+0	6.491+0	4.366+0	2.493+0	2.584-3	1.870+2	5.921+0	1.751+0	7.381-2		
1.012+1	3.616+0	6.665+0	4.310+0	2.482+0	2.433-3	1.825+2	5.659+0	1.537+0	7.345-2		
1.058+1	3.632+0	6.724+0	4.292+0	2.462+0	2.301-3	1.830+2	5.568+0	1.463+0	7.739-2		
1.101+1	3.623+0	6.692+0	4.302+0	2.435+0	2.172-3	1.864+2	5.678+0	1.453+0	7.976-2		
1.155+1	3.623+0	6.700+0	4.302+0	2.411+0	2.053-3	1.880+2	5.764+0	1.579+0	8.214-2		
1.199+1	3.650+0	6.749+0	4.259+0	2.357+0	1.895-3	1.900+2	5.725+0	1.671+0	8.456-2		
1.250+1	3.743+0	6.858+0	4.164+0	2.263+0	1.687-3	1.900+2	5.564+0	1.798+0	8.733-2		
1.307+1	3.841+0	7.017+0	4.058+0	2.172+0	1.513-3	1.885+2	5.435+0	1.931+0	8.988-2		
1.354+1	3.928+0	7.173+0	3.968+0	2.102+0	1.397-3	1.865+2	5.371+0	2.034+0	9.184-2		
1.386+1	3.990+0	7.280+0	3.907+0	2.055+0	1.318-3	1.851+2	5.330+0	2.111+0	9.330-2		
1.413+1	4.012+0	7.341+0	3.895+0	2.039+0	1.251-3	1.845+2	5.344+0	2.181+0	9.437-2		
1.441+1	4.029+0	7.396+0	3.869+0	2.27+0	1.188+3	1.841+2	5.370+0	2.250+0	9.542-2		
1.468+1	4.052+0	7.451+0	3.847+0	2.311+0	1.126+3	1.834+2	5.409+0	2.342+0	9.672-2		
1.519+1	4.086+0	7.498+0	3.815+0	1.989+0	1.005+3	1.823+2	5.246+0	2.365+0	9.661-2		
1.575+1	4.133+0	7.585+0	3.772+0	1.965+0	9.127+2	1.805+2	5.034+0	2.268+0	9.607-2		
1.633+1	4.213+0	7.780+0	3.705+0	1.940+0	8.264+2	1.759+2	5.705+0	2.161+0	9.932-2		
1.692+1	4.243+0	7.795+0	3.674+0	1.916+0	7.513+2	1.750+2	5.888+0	2.083+0	1.074+1		
1.752+1	4.250+0	7.733+0	3.668+0	1.890+0	6.840+2	1.777+2	5.970+0	2.047+0	1.151+1		
1.813+1	4.281+0	7.749+0	3.641+0	1.865+0	6.238+2	1.776+2	6.016+0	2.078+0	1.195+1		
1.875+1	4.322+0	7.748+0	3.607+0	1.826+0	5.684+2	1.780+2	6.139+0	2.205+0	1.264+1		
2.000+1											
RESONANCE INTEGRALS			1.734+2	1.525+2	1.561+1	5.376+0	7.185+1				
MAXWELLIAN AVERAGES			7.689+0	5.300+0	2.389+0	8.530+0					
I-E AVERAGES			9.909+0	8.710+0	8.917+0	3.071+1	4.105+0				
FISSION AVERAGES			5.690+0	4.461+0	7.471+2	1.194+0	3.527+0				
FUSION AVERAGES			3.919+0	2.265+0	1.306+3	1.853+0	5.360+0				

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ATOMIC WEIGHT 1.0691 ± 2		DENSITY 1.0397 ± 1 GRAMS/CC									
ENERGY		MFP (CM)		CROSS SECTION (BARNs)						ENERGY DEPOSIT (MEV)	
MEV	IN	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB	IN REMAINDER	GAM-PROD.		TOTAL	LOCAL
1.307-5	1.486	1.486	1.486	1.149	2.562	0	1.083	2	3.126	6.813	2.497
5.207-5	2.862	1.283	1.283	1.631	1.631	0	5.473	1	1.765	6.592	2.381
2.091-4	4.059	1.062	1.062	1.207	1.562	0	3.645	1	1.042	6.298	2.275
3.267-4	4.919	1.024	1.024	1.343	1.562	0	2.981	1	8.526	6.116	2.209
4.704-4	5.874	1.081	1.081	1.207	1.562	0	2.345	1	6.706	5.863	2.118
6.362-4	7.162	1.172	1.172	1.284	1.562	0	1.822	1	5.212	5.555	2.007
1.307-3	8.319	1.334	1.334	1.253	1.519	0	1.481	1	4.263	5.279	1.908
1.982-3	9.387	1.325	1.325	1.623	1.518	0	1.261	1	3.607	5.029	1.818
2.561-3	1.032	1.032	1.032	1.655	1.516	0	1.093	1	3.126	4.802	1.735
3.345-3	1.119	1.122	1.122	1.566	1.561	0	9.646	0	2.759	4.595	1.662
4.234-3	1.195	1.198	1.198	1.429	1.562	0	8.676	0	2.481	4.414	1.597
5.122-3	1.304	1.308	1.308	1.399	1.569	0	7.486	0	2.141	4.156	1.505
7.567-3	1.483	1.467	1.467	1.167	1.560	0	6.073	0	1.737	3.781	1.371
1.176-2	1.594	1.599	1.599	1.072	1.593	0	5.122	0	1.465	3.475	1.262
1.51-2	1.705	1.711	1.711	1.001	1.583	0	4.430	0	1.267	3.216	1.170
2.091-2	1.849	1.826	1.826	9.339	0	5.569	3.819	0	1.092	2.957	1.078
2.741-2	1.916	1.925	1.925	8.933	0	5.553	3.350	0	9.582	2.735	1.000
3.533-2	2.016	2.026	2.026	8.463	0	5.531	2.932	0	8.385	2.518	9.242
4.704-2	2.126	2.115	2.115	6.109	0	5.501	2.609	0	7.461	2.339	8.618
5.676-2	2.178	2.187	2.187	5.414	0	5.456	2.385	0	6.822	2.211	8.182
6.737-2	2.259	2.269	2.269	4.951	0	5.396	2.164	0	6.190	2.081	7.735
8.362-2	2.324	2.345	2.345	4.314	0	5.332	1.982	0	5.657	1.969	7.367
9.622-2	2.347	2.358	2.358	3.275	0	5.241	2.034	0	5.818	2.033	7.642
1.101-1	2.176	2.185	2.185	7.848	0	5.053	2.795	0	7.995	2.589	9.782
1.307-1	1.701	1.706	1.706	1.004	1.463	0	5.385	0	1.540	1.900	1.484
1.461-1	5.593	5.598	5.598	3.053	1.434	0	2.619	1	7.489	6.235	2.384
1.681-1	4.184	4.147	4.147	4.120	2.362	1	3.751	2	1.073	6.618	2.544
1.705-1	1.162	1.172	1.172	1.462	1.730	0	8.889	0	1.970	3.426	1.324
1.882-1	1.905	1.814	1.814	9.544	0	6.609	2.845	0	8.137	2.198	8.511
2.025-1	2.121	2.131	2.131	8.052	0	6.170	1.881	0	5.381	1.990	6.668
2.271-1	2.263	2.276	2.276	7.545	0	5.967	1.578	0	4.514	1.521	6.013
2.471-1	2.316	2.327	2.327	3.767	0	5.867	1.509	0	4.317	1.488	5.914
2.561-1	2.311	2.383	2.383	7.203	0	5.764	1.439	0	4.115	1.452	5.805
2.710-1	2.311	2.443	2.443	7.025	0	5.659	1.366	0	3.907	1.413	5.684
2.862-1	2.479	2.481	2.481	6.889	0	5.578	1.310	0	3.748	1.393	5.584
2.940-1	2.575	2.538	2.538	6.762	0	5.492	1.270	0	3.631	1.365	5.537
3.099-1	2.575	2.587	2.587	6.635	0	5.324	1.312	0	3.751	1.437	5.889
3.345-1	2.627	2.640	2.640	6.531	0	5.100	1.401	0	4.008	1.567	6.452
3.621-1	2.567	2.507	2.507	6.576	0	4.687	1.911	0	5.466	2.112	8.755
3.966-1	1.562	1.451	1.451	8.776	0	3.705	5.071	0	1.450	1.420	1.748
4.048-1	7.107	2.102	2.102	6.403	2	1.430	2.260	2	5.462	2.636	2.856
4.243-1	1.035	1.137	1.137	1.651	1.730	0	9.136	0	2.613	4.023	1.691
4.369-1	4.593	4.598	4.598	3.718	1.634	0	3.087	1	8.829	1.6035	2.549
4.619-1	2.032	2.037	2.037	8.413	0	5.000	3.413	0	9.762	2.949	1.258
4.918-1	1.898	1.903	1.903	8.997	0	3.875	5.122	0	1.465	4.130	1.771
5.171-1	6.456	2.616	2.616	2.645	2.368	1	2.298	2	6.574	2.317	2.722
5.330-1	3.762	3.680	3.680	4.645	2	8.689	3.762	2	1.076	3.887	2.544
5.530-1	1.211	1.216	1.216	1.422	1.014	0	3.961	0	1.133	1.204	6.963
5.645-1	1.656	1.674	1.674	1.025	1.843	0	1.822	0	5.212	1.292	5.759
5.763-1	1.879	1.889	1.889	9.088	0	7.780	1.308	0	3.740	1.046	4.715
6.037-1	2.004	2.015	2.015	8.519	0	7.430	1.089	0	3.115	0.294	4.244
6.305-1	2.076	2.085	2.085	8.230	0	7.176	9.949	1	2.845	8.787	4.050
6.647-1	2.132	2.143	2.143	8.011	0	7.089	9.231	1	2.640	8.377	3.685
6.974-1	2.224	2.227	2.227	7.712	0	6.885	8.254	1	2.361	3.780	3.650
7.037-1	2.254	2.257	2.257	7.443	0	6.704	7.385	1	2.112	7.213	3.421
7.165-1	2.321	2.334	2.334	7.358	0	6.640	7.180	1	2.053	7.003	3.394
7.507-1	2.354	2.367	2.367	7.255	0	6.561	6.924	1	1.983	6.948	3.362
7.740-1	2.374	2.388	2.388	7.191	0	6.513	6.794	1	1.940	6.857	3.341
7.928-1	2.396	2.410	2.410	7.127	0	6.460	6.631	1	1.896	6.763	3.318
8.167-1	2.421	2.434	2.434	7.063	0	6.410	6.472	1	1.853	6.699	3.295
8.431-1	2.430	2.434	2.434	7.056	0	6.371	6.845	1	1.958	7.052	3.521
8.934-1	2.461	2.475	2.475	6.939	0	6.319	6.198	1	1.773	6.493	3.290

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ATOMIC WEIGHT		1.0691 * 2		DENSITY		1.0397		GRAMS/CC	
ENERGY		TOTAL (CM)		CROSS SECTION (BARN)		ENERGY DEPOSIT (MEV)		TOTAL	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ADSORPTION	REMAINDER	GAM-PROD	LOCAL
9.106	5	2.493	0	2.497	0	6.178	0	6.284	0
9.306	5	2.497	0	2.512	0	6.187	0	6.293	0
9.658	5	2.509	0	2.523	0	6.206	0	6.270	0
9.811	5	2.524	0	2.538	0	6.266	0	6.198	0
1.025	4	2.523	0	2.538	0	6.167	0	6.134	0
1.099	4	2.493	0	2.507	0	6.851	0	6.080	0
1.176	4	2.624	0	2.640	0	6.507	0	5.985	0
1.256	4	2.587	0	2.602	0	6.601	0	5.872	0
1.338	4	2.735	0	2.750	0	6.243	0	5.615	0
1.406	4	2.657	0	2.678	0	1.972	0	7.612	0
1.511	4	2.693	0	2.708	0	6.342	0	5.693	0
1.601	4	2.660	0	2.673	0	6.419	0	5.929	0
1.694	4	1.895	1	1.901	1	9.004	1	3.304	1
1.789	4	2.117	0	2.129	0	8.054	0	7.183	0
1.887	4	2.504	0	2.518	0	8.920	0	6.233	0
1.988	4	2.647	0	2.679	0	2.640	0	8.066	0
2.091	4	2.051	0	2.060	0	8.327	0	6.226	0
2.741	4	5.931	1	5.952	1	2.879	1	1.636	1
3.267	4	1.600	0	1.607	0	1.667	0	7.053	0
3.811	4	1.181	0	1.185	0	1.466	0	8.528	0
4.704	4	1.571	0	1.578	0	1.087	0	7.433	0
4.991	4	8.437	1	8.344	1	2.956	1	1.200	1
5.658	4	5.638	1	5.860	1	2.925	1	1.745	1
6.042	4	1.796	0	1.805	0	9.506	0	7.988	0
6.367	4	1.345	0	1.350	0	1.270	0	8.406	0
7.156	4	1.926	0	1.936	0	8.804	0	7.226	0
8.329	4	1.546	0	1.553	0	1.105	0	8.493	0
9.173	4	1.476	0	1.483	0	1.157	0	9.308	0
1.058	3	9.929	1	9.974	1	1.720	1	1.245	1
1.307	3	1.054	0	1.059	0	1.620	0	1.201	0
1.581	3	1.116	0	1.122	0	1.530	0	1.154	0
1.882	3	1.163	0	1.169	0	1.468	0	1.122	0
2.208	3	1.205	0	1.211	0	1.417	0	1.094	0
2.561	3	1.251	0	1.257	0	1.365	0	1.063	0
2.940	3	1.294	0	1.300	0	1.320	0	1.035	0
3.345	3	1.328	0	1.334	0	1.286	0	1.020	0
3.777	3	1.362	0	1.369	0	1.254	0	1.004	0
4.234	3	1.433	0	1.440	0	1.192	0	9.680	0
5.763	3	1.546	0	1.554	0	1.105	0	9.112	0
7.527	3	1.616	0	1.624	0	1.057	0	8.861	0
1.025	2	1.684	0	1.693	0	1.014	0	8.682	0
1.511	2	1.767	0	1.789	0	9.665	0	8.386	0
2.091	2	1.815	0	1.852	0	9.408	0	8.292	0
2.646	2	1.836	0	1.889	0	9.301	0	8.315	0
3.267	2	1.851	0	1.923	0	9.223	0	8.340	0
4.953	2	1.863	0	1.955	0	9.166	0	8.389	0
7.704	2	1.933	0	2.479	0	9.128	0	8.404	0
5.761	2	1.878	0	2.027	0	9.090	0	8.450	0
7.002	2	1.881	0	2.070	0	9.080	0	8.500	0
9.322	2	1.881	0	2.101	0	9.078	0	8.550	0
9.891	2	1.886	0	2.141	0	9.052	0	8.577	0
1.307	1	1.912	0	2.241	0	9.831	0	8.515	0
1.620	1	1.935	0	2.396	0	9.920	0	8.436	0
2.075	1	1.953	0	2.479	0	9.749	0	8.373	0
2.417	1	1.973	0	2.573	0	9.655	0	8.294	0
2.710	1	1.597	0	2.655	0	9.552	0	8.195	0
2.940	1	2.027	0	2.756	0	9.423	0	8.055	0
3.345	1	2.046	0	2.852	0	9.344	0	7.708	0
3.777	1	2.080	0	2.966	0	9.208	0	7.444	0
4.234	1	2.135	0	3.110	0	7.998	0	7.006	0
4.913	1	2.214	0	3.391	0	7.714	0	6.492	0
6.325	1	2.317	0	3.657	0	7.369	0	6.023	0
								1.199	1
								1.226	0
								3.394	0
								1.698	0
								6.276	1
								6.210	1
								6.160	0
								6.104	1
								6.091	1
								6.797	1
								6.181	1
								5.825	1
								7.312	1
								4.464	0
								7.436	1
								6.677	1
								4.602	0
								7.944	1
								6.281	1
								5.049	0
								1.834	0
								3.139	0
								2.465	0
								1.659	0
								2.298	0
								2.210	0
								2.932	0
								1.543	0
								2.458	0
								1.344	0
								1.811	0
								2.210	0
								1.663	0
								1.785	0
								1.713	0
								1.659	0
								1.612	0
								1.580	0
								1.055	0
								1.063	0
								1.052	0
								1.367	0
								1.275	0
								1.176	0
								1.063	0
								0.656	1
								0.74	1
								0.993	1
								0.361	1
								0.766	1
								0.295	1
								0.700	1
								0.492	1
								0.382	1
								0.276	1
								0.231	1
								0.739	1
								0.571	1
								0.458	1
								0.340	1
								0.240	1
								0.153	1
								0.592	1
								0.674	1
								0.665	1
								0.121	0
								1.885	1

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 1.0691 ± 2		DENSITY 1.0397 ± 1 GRAMS/CC														
ENERGY MEV	HFP (CM)	CROSS SECTION (BARNs)								ENERGY DEPOSITION (eV)						
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL						
7.500-2	2.424-0	3.946-0	7.043-0	5.624-0	1.147-1	1.304-0	3.679-0	2.009-1	2.157-2							
6.000-1	2.539-0	4.131-0	6.806-0	5.265-0	1.056-1	1.435-0	3.986-0	2.178-1	2.421-2							
1.000-0	2.589-0	4.304-0	5.596-0	4.951-0	1.003-1	1.544-0	4.258-0	2.406-1	2.752-2							
1.160-0	2.671-0	4.400-0	5.393-0	4.654-0	9.877-2	1.640-0	4.517-0	2.698-1	3.177-2							
1.338-0	2.761-0	4.499-0	5.195-0	4.350-0	9.638-2	1.736-0	4.790-0	3.051-1	3.661-2							
1.517-0	2.865-0	4.618-0	5.061-0	4.046-0	9.763-2	1.817-0	4.976-0	3.497-1	4.187-2							
1.694-0	2.987-0	4.780-0	5.177-0	3.763-0	9.612-2	1.857-0	5.090-0	4.018-1	4.742-2							
1.887-0	3.128-0	4.924-0	5.409-0	3.466-0	9.450-2	1.899-0	5.205-0	4.683-1	5.355-2							
2.091-0	3.284-0	5.081-0	5.653-0	3.209-0	9.055-2	1.934-0	5.280-0	5.456-1	5.897-2							
2.305-0	3.462-0	5.266-0	5.909-0	3.005-0	8.386-2	1.961-0	5.350-0	6.309-1	6.289-2							
2.530-0	3.668-0	5.482-0	6.189-0	2.802-0	7.839-2	1.987-0	5.419-0	7.372-1	6.689-2							
2.761-0	3.895-0	5.740-0	6.495-0	2.600-0	7.203-2	2.013-0	5.495-0	8.700-1	7.043-2							
3.011-0	4.143-0	6.047-0	6.802-0	2.405-0	6.243-2	2.034-0	5.479-0	1.018-0	7.105-2							
3.267-0	4.414-0	6.384-0	7.118-0	2.249-0	5.284-2	2.049-0	5.375-0	1.166-0	6.945-2							
3.533-0	4.708-0	6.724-0	7.418-0	2.112-0	4.422-2	2.062-0	5.267-0	1.331-0	6.714-2							
3.811-0	5.026-0	7.070-0	7.698-0	1.939-0	3.618-2	2.076-0	5.164-0	1.484-0	6.353-2							
4.099-0	5.368-0	7.428-0	7.978-0	1.787-0	2.884-2	2.091-0	5.127-0	1.652-0	6.044-2							
4.396-0	5.730-0	7.801-0	8.257-0	1.657-0	2.194-2	2.099-0	5.089-0	1.810-0	5.705-2							
4.704-0	6.114-0	8.187-0	8.537-0	1.549-0	1.745-2	2.029-0	5.102-0	1.895-0	5.450-2							
5.031-0	6.524-0	8.586-0	8.833-0	1.433-0	1.307-2	1.985-0	5.146-0	1.988-0	5.164-2							
5.383-0	6.959-0	9.000-0	9.137-0	1.310-0	1.011-2	1.961-0	5.244-0	2.086-0	4.900-2							
5.758-0	7.420-0	9.433-0	9.463-0	1.182-0	8.626-3	1.955-0	5.346-0	2.184-0	4.748-2							
6.162-0	7.904-0	9.876-0	9.771-0	1.050-0	7.220-3	1.940-0	5.448-0	2.288-0	4.681-2							
6.597-0	8.414-0	1.031-1	1.015-0	9.202-3	8.075-3	1.935-0	5.547-0	2.393-0	4.675-2							
7.074-0	8.954-0	1.077-0	1.067-0	8.239-3	7.075-3	1.925-0	5.663-0	2.511-0	4.713-2							
7.590-0	9.526-0	1.126-0	1.116-0	7.293-3	6.326-3	1.913-0	5.811-0	2.636-0	4.789-2							
8.140-0	1.013-1	1.178-0	1.168-0	6.275-3	5.416-3	1.915-0	5.956-0	2.763-0	4.931-2							
8.724-0	1.070-0	1.233-0	1.223-0	5.302-3	4.589-3	1.912-0	6.112-0	2.866-0	5.118-2							
9.342-0	1.130-0	1.290-0	1.280-0	4.342-3	3.593-3	1.908-0	6.302-0	2.969-0	5.338-2							
9.997-0	1.191-0	1.349-0	1.339-0	3.383-3	2.633-3	1.905-0	6.495-0	3.084-0	5.575-2							
1.070-1	1.254-0	1.410-0	1.394-0	2.487-3	1.747-3	1.901-0	6.602-0	3.218-0	5.777-2							
1.155-1	1.318-0	1.472-0	1.456-0	1.639-3	1.380-3	1.888-0	6.892-0	3.293-0	5.987-2							
1.242-1	1.383-0	1.537-0	1.521-0	1.450-3	1.011-3	1.884-0	6.973-0	3.293-0	6.290-2							
1.331-1	1.450-0	1.600-0	1.584-0	1.258-3	8.626-3	1.885-0	6.195-0	3.180-0	6.573-2							
1.421-1	1.518-0	1.664-0	1.648-0	1.062-3	7.200-3	1.881-0	6.199-0	3.162-0	6.894-2							
1.512-1	1.587-0	1.729-0	1.713-0	9.075-3	6.131-3	1.831-0	6.132-0	3.150-0	7.240-2							
1.604-1	1.657-0	1.794-0	1.778-0	8.424-3	5.106-3	1.803-0	5.919-0	3.145-0	7.581-2							
1.700-1	1.728-0	1.860-0	1.844-0	7.779-3	4.172-3	1.800-0	5.845-0	3.142-0	7.999-2							
1.800-1	1.799-0	1.926-0	1.910-0	7.082-3	3.287-3	1.796-0	5.746-0	3.183-0	8.428-2							
1.904-1	1.870-0	2.001-0	1.985-0	6.392-3	2.489-3	1.792-0	5.635-0	3.183-0	8.764-2							
2.011-1	1.942-0	2.074-0	2.058-0	5.649-3	1.739-3	1.785-0	5.517-0	3.177-0	9.019-2							
2.121-1	2.015-0	2.147-0	2.131-0	4.866-3	1.380-3	1.780-0	5.392-0	3.168-0	9.280-2							
2.234-1	2.089-0	2.220-0	2.204-0	4.041-3	1.075-3	1.772-0	5.269-0	3.165-0	9.553-2							
2.350-1	2.164-0	2.294-0	2.278-0	3.191-3	8.424-3	1.761-0	5.149-0	3.240-0	9.946-2							
2.469-1	2.240-0	2.369-0	2.353-0	2.312-3	7.082-3	1.750-0	5.058-0	3.283-0	1.045-1							
2.591-1	2.317-0	2.444-0	2.428-0	1.386-3	5.779-3	1.738-0	4.904-0	3.284-0	1.098-1							
2.716-1	2.395-0	2.520-0	2.504-0	1.062-3	4.990-3	1.727-0	4.719-0	3.270-0	1.155-1							
2.844-1	2.474-0	2.596-0	2.580-0	9.179-3	4.556-3	1.717-0	4.551-0	3.259-0	1.214-1							
2.975-1	2.554-0	2.672-0	2.656-0	8.424-3	4.172-3	1.712-0	4.418-0	3.270-0	1.276-1							
3.110-1	2.634-0	2.748-0	2.732-0	7.779-3	3.737-3	1.705-0	4.250-0	3.388-0	1.343-1							
3.250-1	2.714-0	2.824-0	2.808-0	7.082-3	3.287-3	1.700-0	4.080-0	3.577-0	1.442-1							
3.400-1	2.800-0	2.900-0	2.884-0	6.392-3	2.884-3	1.695-0	3.919-0	3.770-0	1.540-1							
RESONANCE INTEGRALS																
		2.539-2	1.287-2	1.185-2	6.759-0	3.501-2										
MAXWELLIAN AVERAGES																
		3.878-1	5.622-0	3.315-1												
1/E AVERAGES																
		1.451-1	7.352-0	6.769-0	3.661-1	2.057-1										
FISSION AVERAGES																
		5.989-0	4.306-0	1.120-1	1.571-0	4.495-0										
FUSION AVERAGES																
		3.66-0	2.534-0	4.416-2	1.789-0	5.672-0										

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ATOMIC WEIGHT 1.0590+2		DENSITY 1.0590+1 GRA/5/CC							
ENERGY	MEP (CM)	CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)			
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	6.166-2	6.167-2	2.769-2	5.600-0	2.713-2	7.597-2	6.668-0	2.214-4	
5.227-9	1.202-1	1.207-1	1.420-1	5.600-0	1.364-2	3.821+2	6.537-0	2.171-4	
2.091-8	1.762-1	1.763-1	9.688-1	5.600-0	9.128-1	2.556-2	6.412-0	2.129-4	
3.267-8	2.122-1	2.123-1	8.045-1	5.600-0	7.485-1	2.096-2	6.332-0	2.103-4	
4.704-8	2.640-1	2.642-1	6.467-1	5.600-0	5.907-1	1.654-2	6.216-0	2.085-4	
8.352-8	3.224-1	3.226-1	5.296-1	5.600-0	4.735-1	1.326-2	6.086-0	2.062-4	
1.307-7	3.728-1	3.731-1	4.580-1	5.600-0	4.020-1	1.125-2	5.974-0	1.965-4	
1.682-7	4.200-1	4.203-1	4.055-1	5.600-0	3.505-1	9.817-1	5.868-0	1.950-4	
2.561-7	4.649-1	4.653-1	3.673-1	5.600-0	3.113-1	8.717-1	5.768-0	1.918-4	
3.345-7	5.071-1	5.076-1	3.367-1	5.600-0	2.807-1	7.860-1	5.674-0	1.887-4	
4.234-7	5.450-1	5.456-1	3.133-1	5.600-0	2.573-1	7.205-1	5.589-0	1.860-4	
5.123-7	5.739-1	5.746-1	2.975-1	5.600-0	2.415-1	6.763-1	5.525-0	1.839-4	
7.527-7	5.967-1	5.974-1	2.862-1	5.600-0	2.302-1	6.445-1	5.474-0	1.825-4	
1.176-6	6.032-1	6.039-1	2.831-1	5.600-0	2.271-1	6.359-1	5.459-0	1.823-4	
1.511-6	5.498-1	5.494-1	3.111-1	5.600-0	2.551-1	7.144-1	5.581-0	1.868-4	
2.031-6	4.402-1	4.406-1	3.879-1	5.600-0	3.319-1	9.293-1	5.823-0	1.954-4	
2.741-6	2.897-1	2.899-1	5.893-1	5.600-0	5.333-1	1.493-2	6.159-0	2.078-4	
3.533-6	6.860-2	6.862-2	2.489-2	1.028-1	2.386-2	6.682-2	6.525-0	2.208-4	
4.704-6	2.235-1	2.236-1	7.641-1	6.498-2	6.991-3	1.957-4	6.227-0	2.115-4	
5.658-6	6.323-2	6.329-2	2.701-2	4.334-1	2.267-2	6.349-2	5.714-0	1.947-4	
6.737-6	3.581-1	3.589-1	4.769-1	1.451-1	3.318-1	9.290-1	4.735-0	1.623-4	
8.322-6	8.775-1	8.801-1	1.946-1	9.248-0	1.021-1	2.859-1	3.571-0	1.233-4	
9.620-6	1.262-0	1.267-0	1.353-1	7.727-0	5.800-0	1.624-1	2.918-0	1.014-4	
1.101-5	1.825-0	1.832-0	9.358-0	6.501-0	2.857-0	8.001-0	2.080-0	7.276-5	
1.307-5	2.205-0	2.216-0	7.742-0	5.876-0	1.866-0	5.226-0	1.640-0	5.796-5	
1.468-5	2.544-0	2.556-0	6.713-0	5.457-0	1.256-0	3.517-0	1.274-0	4.533-5	
1.581-5	2.711-0	2.725-0	6.298-0	5.219-0	1.078-0	3.020-0	1.166-0	4.179-5	
1.758-5	2.865-0	2.880-0	5.960-0	5.001-0	9.533-1	2.686-0	1.095-0	3.955-5	
1.882-5	3.046-0	3.063-0	5.605-0	4.771-0	8.337-1	2.334-0	1.012-0	3.683-5	
2.075-5	3.271-0	3.289-0	5.220-0	4.485-0	7.351-1	2.058-0	9.585-1	3.520-5	
2.277-5	3.354-0	3.371-0	5.091-0	4.236-0	6.551-1	2.394-0	1.143-0	4.222-5	
2.417-5	3.405-0	3.423-0	5.013-0	4.026-0	5.848-1	2.758-0	1.337-0	4.961-5	
2.561-5	3.301-0	3.316-0	5.173-0	3.722-0	1.451-0	4.023-0	1.909-0	7.107-5	
2.710-5	2.614-0	2.622-0	6.533-0	3.145-0	3.388-0	9.487-0	3.530-0	1.318-4	
2.862-5	1.323-0	1.324-0	1.291-1	2.185-0	1.072-1	3.003-0	5.594-0	2.117-4	
2.940-5	3.747-2	3.749-2	4.557-2	2.703-1	4.287-2	1.200-3	6.402-0	2.409-4	
3.098-5	9.811-1	9.836-1	1.740-1	7.223-0	1.018-1	2.851-1	3.981-0	1.508-4	
3.345-5	2.678-0	2.691-0	6.377-0	4.519-0	1.457-0	4.080-0	1.555-0	5.396-5	
3.601-5	2.815-0	2.827-0	6.066-0	4.034-0	2.032-0	5.690-0	2.280-0	8.861-5	
3.866-5	8.448-2	8.451-2	2.021-2	1.013-1	1.920-2	5.376-2	6.465-0	2.524-4	
4.046-5	6.255-1	6.273-1	2.068-1	7.121-0	1.356-1	3.789-1	4.463-0	1.750-4	
4.234-5	2.545-0	2.557-0	6.710-0	5.211-0	1.495-0	4.197-0	1.520-0	6.055-5	
4.329-5	3.088-0	3.105-0	5.529-0	4.728-0	8.012-1	2.243-0	9.862-1	3.883-5	
4.619-5	3.407-0	3.425-0	5.013-0	4.398-0	6.141-1	1.720-0	8.338-1	3.409-5	
4.717-5	3.592-0	3.561-0	4.821-0	4.191-0	6.280-1	1.759-0	8.865-1	3.641-5	
4.918-5	3.625-0	3.644-0	4.710-0	3.886-0	8.243-1	2.308-0	1.191-0	4.902-5	
5.123-5	3.305-0	3.319-0	5.166-0	3.480-0	1.697-0	4.723-0	2.222-0	9.138-5	
5.322-5	9.028-2	9.039-2	1.691-2	3.790-1	1.512-2	4.235-2	5.442-0	2.249-4	
5.654-5	1.005-0	1.008-0	1.700-1	8.813-0	8.184-0	2.292-1	3.277-0	1.365-4	
5.763-5	2.444-0	2.456-0	6.986-0	5.384-0	1.602-0	4.485-0	1.560-0	6.31-5	
6.097-5	3.306-0	3.323-0	5.166-0	4.332-0	8.340-1	2.335-0	1.099-0	4.786-5	
6.325-5	3.647-0	3.665-0	4.682-0	3.714-0	9.679-1	2.710-0	1.407-0	6.084-5	
6.557-5	3.646-0	3.662-0	4.663-0	3.147-0	1.536-0	4.300-0	2.202-0	9.642-5	
6.674-5	3.116-1	3.119-1	5.479-1	8.669-0	4.632-1	1.297-2	5.754-0	2.499-4	
7.034-5	1.952-2	1.955-2	8.746-2	1.742-2	7.004+2	1.461-3	5.450-0	2.373-4	
7.155-5	1.042-2	1.046-2	1.638-1	1.002-2	6.353-0	1.778-1	2.639-0	1.163-4	
7.527-5	2.378-0	2.392-0	7.178-0	6.265-0	9.170-1	2.568-0	8.694-1	3.975-5	
7.780-5	2.682-0	2.697-0	6.368-0	5.734-0	6.341-1	6.717-1	5.765-1	3.148-5	
7.908-5	2.737-0	2.990-0	5.744-0	5.281-0	4.628-1	1.296-0	5.484-1	2.596-5	
8.167-5	3.165-0	3.184-0	5.393-0	4.824-0	5.685-1	1.592-0	7.174-1	3.385-5	
8.431-5	2.874-1	2.876-1	5.942-1	6.946-0	5.247-1	1.469-2	6.010-0	2.762-4	
8.834-5	2.247-0	2.258-0	7.598-0	5.865-0	1.733-0	4.852-0	5.852-0	7.295-5	

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 1.0890 + 2

DENSITY 1.0590 + 1 GRAMS/CC

ENERGY MEV	HFI (CM)	CROSS SECTION (BARNs)					ENERGY DEPOSITIVE (V)	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	TOTAL	LOCAL
9.108-5	2.909-0	2.925-0	0	5.870-0	5.126-0	7.443-1	2.084-0	8.629-1
9.366-5	3.357-0	3.377-0	0	5.087-0	4.875-0	2.119-1	5.932-1	2.834-1
9.668-5	3.461-0	3.481-0	0	4.934-0	4.752-0	1.809-1	5.065-1	2.495-1
9.811-5	3.596-0	3.617-0	0	4.749-0	4.593-0	1.554-1	4.353-1	2.228-1
1.025-4	3.534-0	3.554-0	0	4.831-0	4.325-0	5.063-1	1.180-0	7.132-1
1.099-4	3.995-0	4.018-0	0	4.274-0	3.944-0	3.298-1	9.235-1	5.252-1
1.176-4	4.698-0	4.724-0	0	3.635-0	3.256-0	3.784-1	1.059-0	7.085-1
1.256-4	1.939-1	1.943-1	0	3.607-1	3.281-1	5.526-1	1.547-2	4.270-2
1.338-4	8.727-2	8.750-2	0	1.957-2	8.462-2	1.170-2	3.109-2	3.863-2
1.406-4	2.431-0	2.445-0	0	7.223-0	6.495-0	5.380-1	1.506-0	5.213-1
1.511-4	3.205-0	3.224-0	0	5.328-0	5.014-0	3.138-1	8.707-1	4.009-1
1.601-4	3.612-0	3.631-0	0	4.727-0	3.951-0	7.757-1	2.172-0	1.117-0
1.694-4	1.565-1	1.568-1	0	1.091-2	4.321-1	6.593-1	1.846-2	4.111-2
1.789-4	2.614-0	2.630-0	0	6.537-0	6.191-0	2.408-1	9.542-1	3.551-1
1.887-4	3.116-0	3.134-0	0	5.461-0	5.192-0	2.592-1	8.096-1	3.591-1
1.988-4	2.593-0	2.601-0	0	7.786-0	4.733-0	3.432-0	9.610-0	3.000-0
2.081-4	1.339-0	1.343-0	0	2.757-0	5.910-0	6.939-0	1.915-1	3.651-1
2.741-4	4.296-1	4.311-1	0	3.975-1	2.250-1	1.725-1	4.829-1	2.953-1
3.267-4	2.647-0	2.661-0	0	6.450-0	5.350-0	1.100-1	3.020-0	1.161-0
3.811-4	8.522-1	8.987-1	0	1.936-1	9.567-0	9.491-0	2.658-1	3.389-0
4.704-4	1.625-0	1.831-0	0	9.355-0	4.837-0	4.517-0	1.265-1	3.287-0
4.991-4	4.193-1	4.209-1	0	4.072-1	2.423-1	1.650-1	4.619-1	2.757-0
5.658-4	1.291-0	1.298-0	0	1.322-0	1.065-0	2.571-0	7.200-0	1.323-0
6.042-4	6.290-1	6.294-1	0	2.45-1	1.533-1	1.212-1	3.395-1	3.006-0
6.367-4	2.218-0	2.229-0	0	7.699-0	5.952-0	1.747-0	4.831-0	1.544-0
7.156-4	8.538-1	8.573-1	0	2.023-1	1.345-1	6.551-0	1.835-1	2.230-0
8.322-4	2.451-0	2.464-0	0	6.966-0	5.976-0	9.925-1	2.774-0	9.678-1
9.177-4	1.590-0	1.598-0	0	1.071-1	9.225-0	1.518-0	4.251-0	9.617-1
1.056-3	9.863-1	9.913-1	0	1.31-1	1.397-1	3.343-0	9.362-0	1.314-0
1.307-3	1.046-0	1.051-0	0	1.632-0	1.338-0	2.949-0	8.258-0	1.230-0
1.581-3	1.110-0	1.116-0	0	1.538-0	1.274-0	2.634-0	7.378-0	1.166-0
1.862-3	1.164-0	1.170-0	0	1.467-0	1.228-0	2.394-0	6.707-0	1.111-0
2.208-3	1.217-0	1.223-0	0	1.404-0	1.184-0	2.197-0	6.154-0	1.066-0
2.561-3	1.275-0	1.281-0	0	1.340-0	1.137-0	2.029-0	5.688-0	1.031-0
2.940-3	1.325-0	1.332-0	0	1.288-0	1.099-0	1.892-0	5.300-0	9.748-1
3.345-3	1.354-0	1.362-0	0	1.261-0	1.082-0	1.785-0	5.002-0	9.644-1
3.777-3	1.384-0	1.392-0	0	1.234-0	1.064-0	1.691-0	4.738-0	9.335-1
4.234-3	1.450-0	1.457-0	0	1.178-0	1.025-0	1.630-0	4.287-0	8.847-1
5.763-3	1.556-0	1.566-0	0	1.096-0	9.621-0	3.40-0	3.757-0	8.332-1
7.527-3	1.623-0	1.632-0	0	1.052-0	8.345-0	1.164-0	3.264-0	7.543-1
1.025-2	1.685-0	1.695-0	0	1.014-0	9.158-0	9.776-1	2.743-0	6.579-1
1.511-2	1.760-0	1.781-0	0	9.702-0	8.882-0	8.204-1	2.304-0	5.773-1
2.091-2	1.833-0	1.868-0	0	9.315-0	8.603-0	7.129-1	2.001-0	5.250-1
2.645-2	1.863-0	1.913-0	0	9.153-0	8.538-0	6.252-1	1.759-0	4.669-1
3.267-2	1.879-0	1.944-0	0	9.088-0	8.539-0	5.493-1	1.537-0	4.141-1
3.953-2	1.991-0	1.975-0	0	9.029-0	8.540-0	4.891-1	1.999-0	3.717-1
4.704-2	2.022-0	2.007-0	0	8.975-0	8.541-0	4.344-1	1.839-0	3.328-1
5.761-2	2.133-0	2.048-0	0	8.925-0	8.543-0	3.827-1	1.635-0	2.956-1
7.022-2	2.222-0	2.093-0	0	8.885-0	8.544-0	3.406-1	1.429-0	2.651-1
8.322-2	2.310-0	2.141-0	0	8.849-0	8.544-0	3.054-1	1.153-0	2.386-1
9.991-2	2.939-0	2.201-0	0	8.807-0	8.523-0	2.670-1	1.060-0	2.116-1
1.307-1	1.961-0	2.334-0	0	8.767-0	8.544-0	2.231-1	2.981-2	1.240-0
1.820-1	1.987-0	2.488-0	0	8.592-0	8.346-0	1.959-1	5.002-2	1.408-0
2.075-1	2.027-0	2.564-0	0	8.526-0	8.262-0	1.833-1	5.576-2	1.538-0
2.417-1	2.288-0	2.656-0	0	8.422-0	8.172-0	1.669-1	5.249-2	1.677-0
2.710-1	2.344-0	2.753-0	0	8.353-0	8.099-0	1.577-1	5.627-2	1.791-0
3.240-1	2.688-0	2.834-0	0	8.258-0	7.962-0	1.440-1	1.521-1	1.930-0
3.945-1	2.798-0	2.943-0	0	8.138-0	7.608-0	1.163-1	1.411-1	2.112-0
3.777-1	2.128-0	3.058-0	0	8.025-0	7.282-0	1.013-1	6.419-1	2.306-0
4.244-1	2.173-0	3.199-0	0	7.859-0	6.932-0	8.467-2	2.539-1	1.186-1
5.123-1	2.245-0	3.476-0	0	7.605-0	6.432-0	7.285-2	2.921-1	1.179-1
6.325-1	2.328-0	3.714-0	0	7.355-0	6.030-0	6.435-2	3.226-0	1.246-1

04/12/76

ENDL 175 Group Neutron Constants

⁴⁸Cd-Nat

[illegible]

04/12/76

ENDL 175 Group Neutron Constants

48 Cd-Nat

ATOMIC WEIGHT 112400.2

DENSITY 8.6500 G/CM3

ENERGY MEV	GROUP	TOTAL TRANSPORT		CROSS SECTION (BARN)					DEPOSIT (%)	
		TOTAL	ELASTIC	ADJ. SCAT. MEM. SCAT.	CAP. PROB.	TOTAL	LOCAL			
9.10E-1	1	1.444E+0	1.196E+0	1.000E+0	1.096E+0	3.950E+0	6.623E+0	3.502E+0		
9.10E-1	2	1.513E+0	6.164E+0	0.000E+0	2.164E+0	6.623E+0	3.176E+0	7.000E+0		
9.10E-1	3	1.110E+0	6.963E+0	0.000E+0	2.363E+0	6.623E+0	3.070E+0	2.665E+0		
9.10E-1	4	1.166E+0	1.101E+0	0.000E+0	9.012E+0	5.213E+0	6.426E+0	3.356E+0		
1.0E-1	5	1.583E+0	6.047E+0	0.000E+0	2.047E+0	7.391E+0	3.061E+0	6.777E+0		
1.0E-1	6	1.532E+0	6.153E+0	0.000E+0	2.153E+0	7.024E+0	3.445E+0	7.500E+0		
1.0E-1	7	1.481E+0	6.222E+0	0.000E+0	2.222E+0	6.623E+0	3.229E+0	8.82E+0		
1.0E-1	8	1.433E+0	6.310E+0	0.000E+0	2.310E+0	6.310E+0	3.325E+0	9.900E+0		
1.0E-1	9	1.390E+0	6.389E+0	0.000E+0	2.389E+0	6.389E+0	3.382E+0	9.969E+0		
1.0E-1	10	1.343E+0	6.479E+0	0.000E+0	2.479E+0	6.479E+0	3.459E+0	2.46E+0		
1.0E-1	11	1.293E+0	6.577E+0	0.000E+0	2.577E+0	6.577E+0	3.542E+0	6.35E+0		
1.0E-1	12	1.240E+0	6.667E+0	0.000E+0	2.667E+0	6.667E+0	3.617E+0	2.217E+0		
1.0E-1	13	1.204E+0	6.759E+0	0.000E+0	2.759E+0	6.759E+0	3.690E+0	2.300E+0		
1.0E-1	14	1.161E+0	6.843E+0	0.000E+0	2.843E+0	6.843E+0	3.761E+0	2.38E+0		
1.0E-1	15	1.119E+0	6.940E+0	0.000E+0	2.940E+0	6.940E+0	3.831E+0	2.47E+0		
1.0E-1	16	1.078E+0	7.039E+0	0.000E+0	3.039E+0	7.039E+0	3.900E+0	2.56E+0		
1.0E-1	17	1.029E+0	7.126E+0	0.000E+0	3.126E+0	7.126E+0	3.969E+0	2.65E+0		
1.0E-1	18	1.000E+0	7.194E+0	0.000E+0	3.194E+0	7.194E+0	4.038E+0	2.74E+0		
1.0E-1	19	1.000E+0	7.263E+0	0.000E+0	3.263E+0	7.263E+0	4.107E+0	2.83E+0		
1.0E-1	20	1.000E+0	7.332E+0	0.000E+0	3.332E+0	7.332E+0	4.176E+0	2.92E+0		
 									

12-76

ENDL 175 Group Neutron Constants

48-Cd-Nat

ATOMIC WEIGHT 112.904 2		DENSITY 8.6500 0 GRAMS/CC					
ENERGY MEV	GROUP	CROSS SECTION (BARRS)				ENERGY DEPOSITION (MEV)	
		TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD	TOTAL LOCAL
0.01	1	5.765+0	5.685+0	2.428-2	7.271-1	1.093+0	1.275-2
0.02	2	5.765+0	5.726+0	1.988-2	9.290-1	2.033+0	1.241-2
0.03	3	5.765+0	5.680+0	1.645-2	1.060+0	3.204+0	1.286-2
0.04	4	5.765+0	5.680+0	1.891+0	1.339-2	3.468+0	1.391-2
0.05	5	5.765+0	5.957+0	1.169-2	1.255+0	3.797+0	1.495-2
0.06	6	5.765+0	5.884+0	1.004-2	1.361+0	4.128+0	1.605-2
0.07	7	5.765+0	5.735+0	1.252+0	1.474+0	4.443+0	1.720-2
0.08	8	5.765+0	5.624+0	1.507+0	1.589+0	4.733+0	1.836-2
0.09	9	5.765+0	5.469+0	1.703+0	1.679+0	5.007+0	1.958-2
0.10	10	5.765+0	5.374+0	1.847+0	1.767+0	5.266+0	2.084-2
0.12	12	5.765+0	5.247+0	2.078+0	1.854+0	5.513+0	2.210-2
0.14	14	5.765+0	5.088+0	2.244+0	1.950+0	5.741+0	2.337-2
0.16	16	5.765+0	4.904+0	2.344+0	2.043+0	5.953+0	2.463-2
0.18	18	5.765+0	4.724+0	2.434+0	2.133+0	6.159+0	2.589-2
0.20	20	5.765+0	4.547+0	2.513+0	2.219+0	6.360+0	2.715-2
0.22	22	5.765+0	4.374+0	2.581+0	2.303+0	6.557+0	2.841-2
0.24	24	5.765+0	4.204+0	2.638+0	2.385+0	6.750+0	2.967-2
0.26	26	5.765+0	4.037+0	2.685+0	2.465+0	6.939+0	3.093-2
0.28	28	5.765+0	3.874+0	2.722+0	2.543+0	7.124+0	3.219-2
0.30	30	5.765+0	3.714+0	2.750+0	2.619+0	7.305+0	3.345-2
0.32	32	5.765+0	3.557+0	2.768+0	2.693+0	7.482+0	3.471-2
0.34	34	5.765+0	3.403+0	2.777+0	2.765+0	7.655+0	3.597-2
0.36	36	5.765+0	3.252+0	2.777+0	2.835+0	7.825+0	3.723-2
0.38	38	5.765+0	3.103+0	2.768+0	2.903+0	7.991+0	3.849-2
0.40	40	5.765+0	2.957+0	2.750+0	2.969+0	8.154+0	3.975-2
0.42	42	5.765+0	2.813+0	2.724+0	3.033+0	8.314+0	4.101-2
0.44	44	5.765+0	2.671+0	2.691+0	3.095+0	8.471+0	4.227-2
0.46	46	5.765+0	2.531+0	2.650+0	3.155+0	8.625+0	4.353-2
0.48	48	5.765+0	2.393+0	2.601+0	3.213+0	8.777+0	4.479-2
0.50	50	5.765+0	2.257+0	2.546+0	3.269+0	8.927+0	4.605-2
0.52	52	5.765+0	2.123+0	2.485+0	3.323+0	9.074+0	4.731-2
0.54	54	5.765+0	1.991+0	2.418+0	3.375+0	9.218+0	4.857-2
0.56	56	5.765+0	1.861+0	2.346+0	3.425+0	9.359+0	4.983-2
0.58	58	5.765+0	1.733+0	2.269+0	3.473+0	9.497+0	5.109-2
0.60	60	5.765+0	1.607+0	2.187+0	3.519+0	9.632+0	5.235-2
0.62	62	5.765+0	1.483+0	2.100+0	3.563+0	9.765+0	5.361-2
0.64	64	5.765+0	1.361+0	2.008+0	3.605+0	9.896+0	5.487-2
0.66	66	5.765+0	1.241+0	1.912+0	3.645+0	10.025+0	5.613-2
0.68	68	5.765+0	1.123+0	1.811+0	3.683+0	10.152+0	5.739-2
0.70	70	5.765+0	1.007+0	1.706+0	3.719+0	10.277+0	5.865-2
0.72	72	5.765+0	0.893+0	1.597+0	3.753+0	10.400+0	5.991-2
0.74	74	5.765+0	0.781+0	1.484+0	3.785+0	10.521+0	6.117-2
0.76	76	5.765+0	0.671+0	1.367+0	3.815+0	10.640+0	6.243-2
0.78	78	5.765+0	0.563+0	1.246+0	3.843+0	10.757+0	6.369-2
0.80	80	5.765+0	0.457+0	1.121+0	3.869+0	10.872+0	6.495-2
0.82	82	5.765+0	0.353+0	1.000+0	3.893+0	10.985+0	6.621-2
0.84	84	5.765+0	0.251+0	0.882+0	3.915+0	11.096+0	6.747-2
0.86	86	5.765+0	0.151+0	0.767+0	3.935+0	11.205+0	6.873-2
0.88	88	5.765+0	0.053+0	0.654+0	3.953+0	11.312+0	6.999-2
0.90	90	5.765+0	0.000+0	0.543+0	3.969+0	11.417+0	7.125-2
0.92	92	5.765+0	0.000+0	0.434+0	3.983+0	11.520+0	7.251-2
0.94	94	5.765+0	0.000+0	0.327+0	3.995+0	11.621+0	7.377-2
0.96	96	5.765+0	0.000+0	0.222+0	4.006+0	11.721+0	7.503-2
0.98	98	5.765+0	0.000+0	0.119+0	4.015+0	11.819+0	7.629-2
1.00	100	5.765+0	0.000+0	0.000+0	4.023+0	11.916+0	7.755-2
1.02	102	5.765+0	0.000+0	0.000+0	4.030+0	12.011+0	7.881-2
1.04	104	5.765+0	0.000+0	0.000+0	4.036+0	12.105+0	8.007-2
1.06	106	5.765+0	0.000+0	0.000+0	4.041+0	12.198+0	8.133-2
1.08	108	5.765+0	0.000+0	0.000+0	4.045+0	12.290+0	8.259-2
1.10	110	5.765+0	0.000+0	0.000+0	4.049+0	12.381+0	8.385-2
1.12	112	5.765+0	0.000+0	0.000+0	4.052+0	12.472+0	8.511-2
1.14	114	5.765+0	0.000+0	0.000+0	4.055+0	12.562+0	8.637-2
1.16	116	5.765+0	0.000+0	0.000+0	4.058+0	12.652+0	8.763-2
1.18	118	5.765+0	0.000+0	0.000+0	4.060+0	12.741+0	8.889-2
1.20	120	5.765+0	0.000+0	0.000+0	4.062+0	12.830+0	9.015-2
1.22	122	5.765+0	0.000+0	0.000+0	4.064+0	12.918+0	9.141-2
1.24	124	5.765+0	0.000+0	0.000+0	4.066+0	13.006+0	9.267-2
1.26	126	5.765+0	0.000+0	0.000+0	4.068+0	13.093+0	9.393-2
1.28	128	5.765+0	0.000+0	0.000+0	4.069+0	13.180+0	9.519-2
1.30	130	5.765+0	0.000+0	0.000+0	4.070+0	13.267+0	9.645-2
1.32	132	5.765+0	0.000+0	0.000+0	4.071+0	13.353+0	9.771-2
1.34	134	5.765+0	0.000+0	0.000+0	4.072+0	13.439+0	9.897-2
1.36	136	5.765+0	0.000+0	0.000+0	4.073+0	13.524+0	10.023-2
1.38	138	5.765+0	0.000+0	0.000+0	4.074+0	13.609+0	10.149-2
1.40	140	5.765+0	0.000+0	0.000+0	4.075+0	13.693+0	10.275-2
1.42	142	5.765+0	0.000+0	0.000+0	4.076+0	13.777+0	10.401-2
1.44	144	5.765+0	0.000+0	0.000+0	4.077+0	13.860+0	10.527-2
1.46	146	5.765+0	0.000+0	0.000+0	4.078+0	13.943+0	10.653-2
1.48	148	5.765+0	0.000+0	0.000+0	4.079+0	14.025+0	10.779-2
1.50	150	5.765+0	0.000+0	0.000+0	4.080+0	14.107+0	10.905-2
1.52	152	5.765+0	0.000+0	0.000+0	4.081+0	14.188+0	11.031-2
1.54	154	5.765+0	0.000+0	0.000+0	4.082+0	14.269+0	11.157-2
1.56	156	5.765+0	0.000+0	0.000+0	4.083+0	14.349+0	11.283-2
1.58	158	5.765+0	0.000+0	0.000+0	4.084+0	14.429+0	11.409-2
1.60	160	5.765+0	0.000+0	0.000+0	4.085+0	14.508+0	11.535-2
1.62	162	5.765+0	0.000+0	0.000+0	4.086+0	14.587+0	11.661-2
1.64	164	5.765+0	0.000+0	0.000+0	4.087+0	14.666+0	11.787-2
1.66	166	5.765+0	0.000+0	0.000+0	4.088+0	14.744+0	11.913-2
1.68	168	5.765+0	0.000+0	0.000+0	4.089+0	14.822+0	12.039-2
1.70	170	5.765+0	0.000+0	0.000+0	4.090+0	14.900+0	12.165-2
1.72	172	5.765+0	0.000+0	0.000+0	4.091+0	14.977+0	12.291-2
1.74	174	5.765+0	0.000+0	0.000+0	4.092+0	15.054+0	12.417-2
1.76	176	5.765+0	0.000+0	0.000+0	4.093+0	15.131+0	12.543-2
1.78	178	5.765+0	0.000+0	0.000+0	4.094+0	15.207+0	12.669-2
1.80	180	5.765+0	0.000+0	0.000+0	4.095+0	15.283+0	12.795-2
1.82	182	5.765+0	0.000+0	0.000+0	4.096+0	15.359+0	12.921-2
1.84	184	5.765+0	0.000+0	0.000+0	4.097+0	15.435+0	13.047-2
1.86	186	5.765+0	0.000+0	0.000+0	4.098+0	15.511+0	13.173-2
1.88	188	5.765+0	0.000+0	0.000+0	4.099+0	15.586+0	13.299-2
1.90	190	5.765+0	0.000+0	0.000+0	4.100+0	15.662+0	13.425-2
1.92	192	5.765+0	0.000+0	0.000+0	4.101+0	15.737+0	13.551-2
1.94	194	5.765+0	0.000+0	0.000+0	4.102+0	15.812+0	13.677-2
1.96	196	5.765+0	0.000+0	0.000+0	4.103+0	15.887+0	13.803-2
1.98	198	5.765+0	0.000+0	0.000+0	4.104+0	15.961+0	13.929-2
2.00	200	5.765+0	0.000+0	0.000+0	4.105+0	16.036+0	14.055-2
2.02	202	5.765+0	0.000+0	0.000+0	4.106+0	16.110+0	14.181-2
2.04	204	5.765+0	0.000+0	0.000+0	4.107+0	16.184+0	14.307-2
2.06	206	5.765+0	0.000+0	0.000+0	4.108+0	16.258+0	14.433-2
2.08	208	5.765+0	0.000+0	0.000+0	4.109+0	16.331+0	14.559-2
2.10	210	5.765+0	0.000+0	0.000+0	4.110+0	16.405+0	14.685-2
2.12	212	5.765+0	0.000+0	0.000+0	4.111+0	16.478+0	14.811-2
2.14	214	5.765+0	0.000+0	0.000+0	4.112+0	16.551+0	14.937-2
2.16	216	5.765+0	0.000+0	0.000+0	4.113+0	16.624+0	15.063-2
2.18	218	5.765+0	0.000+0	0.000+0	4.114+0	16.697+0	15.189-2
2.20	220	5.765+0	0.000+0	0.000+0	4.115+0	16.769+0	15.315-2
2.22	222	5.765+0	0.000+0	0.000+0	4.116+0	16.842+0	15.441-2
2.24	224	5.765+0	0.000+0	0.000+0	4.117+0	16.914+0	15.567-2
2.26	226	5.765+0	0.000+0	0.000+0	4.118+0	16.986+0	15.693-2
2.28	228	5.765+0	0.000+0	0.000+0	4.119+0	17.058+0	15.819-2
2.30	230	5.765+0	0.000+0	0.000+0	4.120+0	17.130+0	15.945-2
2.32	232	5.765+0	0.000+0	0.000+0	4.121+0	17.202+0	16.071-2
2.34	234	5.765+0	0.000+0	0.000+0	4.122+0	17.274+0	16.197-2
2.36	236	5.765+0	0.000+0	0.000+0	4.123+0	17.346+0	16.323-2
2.38	238	5.765+0	0.000+0	0.000+0	4.124+0	17.418+0	16.449-2
2.40	240	5.765+0	0.000+0	0.000+0	4.125+0	17.489+0	16.575-2
2.42	242	5.765+0	0.000+0	0.000+0	4.126+0	17.561+0	16.701-2
2.44	244	5.765+0	0.000+0	0.000+0			

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

50-Sn-Nai

ATOMIC WEIGHT		1.869+ 2		DENSITY 7.299+ 0 GRAMS/CC					
[ENERGY]		M/P (CM)		CROSS SECTION (BARNS)				[ENERGY DEPOSIT (MEV)]	
MLV		TOTAL TRANSPORT		TOTAL	ELASTIC	ABSORPTN	REMAIN+P	GAM-PROD.	TOTAL LOCAL
1.307- 9	4.414+ 0	4.433+ 0	6.117+ 0	4.500+ 0	1.617+ 0	4.998+ 0	2.472+ 0	1.035- 4	
5.227- 9	5.037+ 0	5.061+ 0	5.362+ 0	4.500+ 0	8.617+ 0	2.993+ 0	1.503+ 0	6.293- 5	
2.091- 8	5.295+ 0	5.321+ 0	5.106+ 0	4.500+ 0	9.959+ 0	1.895+ 0	1.100+ 0	4.508- 5	
5.267- 8	5.401+ 0	5.429+ 0	5.000+ 0	4.500+ 0	4.959+ 0	1.545+ 0	9.349+ 0	3.916- 5	
4.704- 8	5.510+ 0	5.539+ 0	4.901+ 0	4.505+ 0	3.947+ 0	1.220+ 0	7.530+ 0	1.354- 5	
8.322- 8	5.550+ 0	5.580+ 0	4.865+ 0	4.560+ 0	3.059+ 0	9.453+ 0	5.879+ 0	2.463- 5	
1.307- 7	5.545+ 0	5.575+ 0	4.870+ 0	4.619+ 0	2.510+ 0	7.756+ 0	4.819+ 0	2.019- 5	
1.082- 7	5.545+ 0	5.575+ 0	4.870+ 0	4.657+ 0	2.126+ 0	6.569+ 0	4.081+ 0	1.710- 5	
2.561- 7	5.545+ 0	5.575+ 0	4.870+ 0	4.687+ 0	1.866+ 0	5.542+ 0	3.505+ 0	1.479- 5	
3.345- 7	5.545+ 0	5.576+ 0	4.870+ 0	4.709+ 0	1.611+ 0	4.976+ 0	3.093+ 0	1.297- 5	
4.234- 7	5.543+ 0	5.573+ 0	4.872+ 0	4.727+ 0	1.446+ 0	4.459+ 0	2.775+ 0	1.164- 5	
5.123- 7	5.535+ 0	5.566+ 0	4.878+ 0	4.753+ 0	1.252+ 0	3.868+ 0	2.399+ 0	1.007- 5	
7.527- 7	5.536+ 0	5.567+ 0	4.878+ 0	4.765+ 0	1.121+ 0	3.462+ 0	2.148+ 0	9.033- 6	
1.176- 6	5.546+ 0	5.571+ 0	4.874+ 0	4.762+ 0	1.120+ 0	3.461+ 0	2.148+ 0	9.050- 6	
1.511- 6	5.546+ 0	5.577+ 0	4.869+ 0	4.757+ 0	1.120+ 0	3.461+ 0	2.151+ 0	9.077- 6	
2.091- 6	5.553+ 0	5.584+ 0	4.863+ 0	4.751+ 0	1.120+ 0	3.461+ 0	2.153+ 0	9.113- 6	
2.741- 6	5.562+ 0	5.593+ 0	4.859+ 0	4.745+ 0	1.120+ 0	3.461+ 0	2.157+ 0	9.155- 6	
3.533- 6	5.574+ 0	5.605+ 0	4.845+ 0	4.733+ 0	1.120+ 0	3.461+ 0	2.161+ 0	9.213- 6	
4.704- 6	5.586+ 0	5.618+ 0	4.834+ 0	4.722+ 0	1.120+ 0	3.461+ 0	2.166+ 0	9.276- 6	
5.658- 6	5.599+ 0	5.630+ 0	4.823+ 0	4.711+ 0	1.120+ 0	3.461+ 0	2.171+ 0	9.336- 6	
6.737- 6	5.615+ 0	5.646+ 0	4.809+ 0	4.697+ 0	1.120+ 0	3.461+ 0	2.177+ 0	9.415- 6	
8.322- 6	5.633+ 0	5.664+ 0	4.794+ 0	4.682+ 0	1.120+ 0	3.461+ 0	2.184+ 0	9.501- 6	
9.670- 6	5.648+ 0	5.681+ 0	4.780+ 0	4.668+ 0	1.120+ 0	3.461+ 0	2.191+ 0	9.582- 6	
1.101- 5	5.671+ 0	5.702+ 0	4.762+ 0	4.650+ 0	1.120+ 0	3.461+ 0	2.199+ 0	9.686- 6	
1.307- 5	5.694+ 0	5.725+ 0	4.743+ 0	4.631+ 0	1.120+ 0	3.461+ 0	2.208+ 0	9.797- 6	
1.468- 5	5.711+ 0	5.743+ 0	4.728+ 0	4.616+ 0	1.120+ 0	3.461+ 0	2.215+ 0	9.881- 6	
1.581- 5	5.730+ 0	5.761+ 0	4.713+ 0	4.601+ 0	1.120+ 0	3.461+ 0	2.222+ 0	9.970- 6	
1.798- 5	5.749+ 0	5.781+ 0	4.697+ 0	4.585+ 0	1.120+ 0	3.461+ 0	2.229+ 0	1.006- 5	
1.882- 5	5.769+ 0	5.801+ 0	4.681+ 0	4.569+ 0	1.120+ 0	3.461+ 0	2.237+ 0	1.016- 5	
2.075- 5	5.795+ 0	5.827+ 0	4.660+ 0	4.548+ 0	1.120+ 0	3.461+ 0	2.247+ 0	1.028- 5	
2.277- 5	5.817+ 0	5.849+ 0	4.642+ 0	4.530+ 0	1.120+ 0	3.461+ 0	2.256+ 0	1.039- 5	
2.417- 5	5.836+ 0	5.868+ 0	4.627+ 0	4.515+ 0	1.120+ 0	3.461+ 0	2.263+ 0	1.048- 5	
2.561- 5	5.854+ 0	5.888+ 0	4.612+ 0	4.500+ 0	1.120+ 0	3.460+ 0	2.270+ 0	1.057- 5	
2.710- 5	5.874+ 0	5.905+ 0	4.606+ 0	4.484+ 0	1.120+ 0	3.460+ 0	2.273+ 0	1.065- 5	
2.862- 5	5.895+ 0	5.927+ 0	4.620+ 0	4.526+ 0	1.120+ 0	3.460+ 0	2.276+ 0	1.066- 5	
2.940- 5	5.925+ 0	5.957+ 0	4.636+ 0	4.524+ 0	1.120+ 0	3.460+ 0	2.299+ 0	1.067- 5	
3.099- 5	5.941+ 0	5.973+ 0	4.663+ 0	4.551+ 0	1.120+ 0	3.460+ 0	2.246+ 0	1.070- 5	
3.345- 5	5.929+ 0	5.961+ 0	4.714+ 0	4.602+ 0	1.120+ 0	3.460+ 0	2.221+ 0	1.069- 5	
3.601- 5	5.100+ 0	5.128+ 0	5.295+ 0	5.183+ 0	1.120+ 0	7.550+ 0	1.977+ 0	9.676- 6	
3.866- 5	1.996+ 3	2.008+ 3	1.253+ 1	1.341+ 1	1.120+ 0	4.560+ 0	7.441+ 2	4.221- 6	
4.048- 5	5.897+ 0	5.917+ 0	4.922+ 0	4.810+ 0	1.120+ 0	3.460+ 0	2.127+ 0	1.052- 5	
4.234- 5	5.988+ 0	5.988+ 0	4.921+ 0	4.909+ 0	1.120+ 0	3.460+ 0	2.129+ 0	1.058- 5	
4.329- 5	5.985+ 0	5.910+ 0	6.300+ 0	6.188+ 0	1.120+ 0	3.460+ 0	1.662+ 0	8.486- 6	
4.619- 5	5.585+ 0	5.599+ 0	1.045+ 1	1.034+ 1	1.120+ 0	3.460+ 0	1.032+ 0	5.464- 6	
4.717- 5	5.077+ 0	5.105+ 0	5.319+ 0	5.207+ 0	1.120+ 0	3.460+ 0	1.968+ 0	1.004- 5	
4.918- 5	5.603+ 0	5.634+ 0	4.820+ 0	4.708+ 0	1.120+ 0	3.460+ 0	2.172+ 0	1.107- 5	
5.123- 5	5.700+ 0	5.732+ 0	4.737+ 0	4.625+ 0	1.120+ 0	3.460+ 0	2.210+ 0	1.133- 5	
5.332- 5	5.723+ 0	5.755+ 0	4.718+ 0	4.606+ 0	1.120+ 0	3.460+ 0	2.219+ 0	1.149+ 5	
5.554- 5	5.740+ 0	5.772+ 0	4.704+ 0	4.592+ 0	1.120+ 0	3.460+ 0	2.226+ 0	1.160+ 5	
5.763- 5	5.230+ 0	5.261+ 0	5.162+ 0	5.050+ 0	1.120+ 0	3.460+ 0	2.028+ 0	1.074- 5	
6.097- 5	3.668+ 0	3.689+ 0	3.361+ 0	7.249+ 0	1.120+ 0	3.460+ 0	1.422+ 0	7.915- 6	
6.325- 5	4.215+ 0	4.238+ 0	6.407+ 0	6.295+ 0	1.120+ 0	3.460+ 0	1.634+ 0	9.016- 6	
6.557- 5	5.073+ 0	5.101+ 0	5.323+ 0	5.211+ 0	1.120+ 0	3.460+ 0	1.967+ 0	1.070- 5	
6.674- 5	5.637+ 0	5.666+ 0	4.791+ 0	4.679+ 0	1.120+ 0	3.460+ 0	2.185+ 0	1.185- 5	
7.034- 5	5.671+ 0	5.703+ 0	4.761+ 0	4.650+ 0	1.120+ 0	3.460+ 0	2.199+ 0	1.204+ 5	
7.155- 5	5.700+ 0	5.732+ 0	4.737+ 0	4.625+ 0	1.120+ 0	3.460+ 0	2.210+ 0	1.217+ 5	
7.527- 5	5.737+ 0	5.769+ 0	4.707+ 0	4.595+ 0	1.120+ 0	3.460+ 0	2.224+ 0	1.237+ 5	
7.780- 5	5.760+ 0	5.792+ 0	4.688+ 0	4.576+ 0	1.120+ 0	3.460+ 0	2.233+ 0	1.249+ 5	
7.908- 5	5.783+ 0	5.815+ 0	4.669+ 0	4.557+ 0	1.120+ 0	3.460+ 0	2.242+ 0	1.261+ 5	
8.167- 5	5.815+ 0	5.847+ 0	4.644+ 0	4.532+ 0	1.120+ 0	3.460+ 0	2.254+ 0	1.278+ 5	
8.431- 5	5.843+ 0	5.875+ 0	4.622+ 0	4.510+ 0	1.120+ 0	3.460+ 0	2.265+ 0	1.287+ 5	
8.634- 5	5.879+ 0	5.910+ 0	4.601+ 0	4.499+ 0	1.120+ 0	3.460+ 0	2.263+ 0	1.298+ 5	

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT		1.1869 ± 2		DENSITY 7.2984 ± 0 GRAMS/CC						
ENERGY		MFP (CM)		CROSS SECTION (BARNs)			ENERGY DEPOSIT (MEV)			
MEV		TOTAL TRANSPORT		TOTAL	ELASTIC	ABSORPTN REMAINDER	GAM-PROD.	TOTAL	LOCAL	
4.104	5	5.075	5.103	5.321	5.209	1.120	1	3.460	1.967	1.168
4.386	5	5.265	5.303	5.221	5.109	1.120	1	3.460	1.273	8.191
4.668	5	5.194	5.218	5.439	5.327	1.120	1	3.460	1.626	1.109
4.911	5	5.271	5.501	5.436	5.824	1.120	1	3.460	2.121	1.277
5.125	5	5.220	5.249	5.173	5.061	1.120	1	3.460	2.024	1.249
5.395	5	5.004	5.860	5.754	5.743	1.120	1	3.459	3.801	2.533
5.676	5	5.150	5.175	5.507	5.385	1.120	1	3.459	1.609	1.081
5.956	5	5.955	5.972	5.461	5.349	1.119	1	3.459	1.917	1.278
6.235	5	5.174	5.203	5.219	5.107	1.119	1	3.459	2.006	1.356
6.516	5	5.594	5.620	5.878	5.766	1.119	1	3.459	1.781	1.260
6.797	5	5.253	5.262	5.161	5.049	1.119	1	3.459	2.028	1.438
7.078	5	5.119	5.651	5.806	5.694	1.119	1	3.459	2.178	1.561
7.359	5	5.174	5.504	5.845	5.734	1.119	1	3.459	2.160	1.588
7.640	5	5.134	5.239	5.183	5.071	1.119	1	3.459	2.019	1.540
7.921	5	5.183	5.508	5.624	5.512	1.119	1	3.459	1.737	1.402
8.202	5	5.221	5.250	5.172	5.060	1.119	1	3.458	2.023	1.618
8.483	5	5.332	5.362	5.064	4.953	1.119	1	3.458	2.068	1.789
8.764	5	5.256	5.286	5.137	5.025	1.119	1	3.457	2.036	1.990
9.045	5	5.169	5.511	5.624	5.509	1.119	1	3.457	1.737	1.965
9.326	5	5.184	5.603	5.898	5.787	1.118	1	3.456	1.773	2.242
9.607	5	5.163	5.811	5.530	5.418	1.118	1	3.456	1.891	2.557
9.888	5	5.282	5.712	5.712	5.600	1.118	1	3.455	2.045	2.881
10.169	5	5.171	5.447	5.447	5.335	1.118	1	3.454	2.097	3.134
10.450	5	5.599	5.630	5.630	5.518	1.118	1	3.453	2.167	3.345
10.731	5	5.175	5.666	5.644	5.532	1.117	1	3.453	2.157	3.553
11.012	5	5.187	5.518	5.621	5.509	1.117	1	3.452	2.122	3.894
11.293	5	5.100	5.434	5.031	4.989	1.117	1	3.450	2.088	4.241
11.574	5	5.253	5.345	5.031	4.969	1.116	1	3.449	2.054	4.627
11.855	5	5.394	5.323	5.102	4.990	1.115	1	3.447	2.044	5.353
12.136	5	5.290	5.319	5.105	4.994	1.114	1	3.444	2.041	6.340
12.417	5	5.286	5.316	5.108	4.997	1.113	1	3.442	2.038	7.424
12.698	5	5.282	5.312	5.112	5.001	1.112	1	3.437	2.034	8.605
12.979	5	5.278	5.307	5.116	5.005	1.110	1	3.433	2.130	9.881
13.260	5	5.273	5.303	5.121	5.010	1.109	1	3.428	2.026	1.125
13.541	5	5.269	5.298	5.126	5.015	1.107	1	3.424	2.221	1.272
13.822	5	5.263	5.293	5.131	5.020	1.106	1	3.419	2.016	1.428
14.103	5	5.258	5.287	5.135	5.026	1.104	1	3.414	2.011	1.593
14.384	5	5.254	5.284	5.139	5.049	1.100	1	3.402	1.996	1.958
14.665	5	5.250	5.160	5.026	5.153	1.093	1	3.382	1.945	2.538
14.946	5	5.246	5.012	5.418	5.310	1.084	1	3.362	1.875	3.298
15.227	5	5.241	5.079	5.565	5.459	1.069	1	3.342	1.801	4.567
15.508	5	5.237	5.759	5.766	5.662	1.048	1	3.321	1.723	6.305
15.789	5	5.233	5.641	5.851	5.749	1.025	1	3.300	1.646	8.072
16.070	5	5.229	5.590	5.926	5.806	1.004	1	3.279	1.566	9.960
16.351	5	5.225	5.585	5.923	5.802	0.982	1	3.258	1.486	1.148
16.632	5	5.221	5.571	5.920	5.791	0.960	2	3.237	1.406	1.293
16.913	5	5.217	5.558	5.917	5.782	0.938	2	3.216	1.326	1.472
17.194	5	5.213	5.544	5.914	5.773	0.916	2	3.195	1.246	1.735
17.475	5	5.209	5.530	5.911	5.764	0.894	2	3.174	1.166	2.010
17.756	5	5.205	5.516	5.908	5.755	0.872	2	3.153	1.086	2.260
18.037	5	5.201	5.502	5.905	5.746	0.850	2	3.132	1.006	2.677
18.318	5	5.197	5.488	5.902	5.737	0.828	2	3.111	0.926	3.335
18.599	5	5.193	5.474	5.900	5.728	0.806	2	3.090	0.846	3.977
18.880	5	5.189	5.460	5.897	5.719	0.784	2	3.069	0.766	4.411
19.161	5	5.185	5.446	5.894	5.710	0.762	2	3.048	0.686	4.963
19.442	5	5.181	5.432	5.891	5.701	0.740	2	3.027	0.606	5.429
19.723	5	5.177	5.418	5.888	5.692	0.718	2	3.006	0.526	5.983
20.004	5	5.173	5.404	5.885	5.683	0.696	2	2.985	0.446	6.633
20.285	5	5.169	5.390	5.882	5.674	0.674	2	2.964	0.366	7.433
20.566	5	5.165	5.376	5.879	5.665	0.652	2	2.943	0.286	8.495
20.847	5	5.161	5.362	5.876	5.656	0.630	2	2.922	0.206	9.822
21.128	5	5.157	5.348	5.873	5.647	0.608	2	2.901	0.126	1.190

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT		1.869+2		DENSITY 7.2984+0 GRAMS/CC					
ENERGY		HFP (CM)		CROSS SECTION (BARN)					
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	ENERGY DEPOSIT (MEV)	TOTAL	LOCAL
7.527-1	4.003+0 6.156+0	6.746+0	6.690+0	4.182-2	1.361-2	1.911-1	7.731-2	1.372-2	
8.834-1	4.097+0 6.468+0	6.591+0	6.510+0	4.044-2	1.100-2	2.675-1	7.827-2	1.550-2	
1.025+0	4.234+0 1.108+1	6.378+0	6.258+0	3.799-2	8.609-2	3.782-1	8.473-2	1.746-2	
1.176+0	4.410+0 1.18+1	6.123+0	5.962+0	3.486-2	1.271-1	5.106-1	9.318-2	1.929-2	
1.338+0	4.614+0 1.275+1	5.853+0	5.644+0	3.151-2	1.775-1	6.900-1	1.040-1	2.101-2	
1.511+0	4.791+0 1.331+1	5.636+0	5.306+0	2.796-2	3.021-1	1.039+0	1.311-1	2.27-2	
1.694+0	4.943+0 1.348+1	5.462+0	5.098+0	2.419-2	4.903-1	1.555+0	1.770-1	2.360+2	
1.887+0	5.107+0 1.35+1	5.298+0	4.576+0	2.053-2	6.909-1	2.102+0	2.363-1	2.454+2	
2.091+0	5.253+0 1.309+1	5.166+0	4.283+0	1.801-2	9.177-1	2.713+0	3.202-1	2.60+2	
2.305+0	5.360+0 1.23+1	5.038+0	3.861+0	1.791-2	1.159+0	3.362+0	4.279-1	2.769+2	
2.530+0	5.507+0 1.170+1	4.904+0	3.501+0	1.682-2	1.385+0	3.985+0	5.521-1	3.106+2	
2.741+0	5.690+0 1.110+1	4.746+0	3.105+0	1.562-2	1.626+0	4.655+0	7.135-1	3.467+2	
3.011+0	5.877+0 1.081+1	4.595+0	2.796+0	1.431-2	1.785+0	5.013+0	8.719-1	3.700+2	
3.267+0	6.051+0 1.080+1	4.462+0	2.600+0	1.300-2	1.852+0	5.036+0	1.002+0	3.888+2	
3.533+0	6.243+0 1.077+1	4.326+0	2.396+0	1.164-2	1.918+0	5.077+0	1.157+0	4.035+2	
3.811+0	6.438+0 1.075+1	4.194+0	2.201+0	1.022-2	1.983+0	5.125+0	1.324+0	4.042+2	
4.069+0	6.548+0 1.080+1	4.124+0	2.115+0	9.709-3	1.993+0	5.112+0	1.464+0	4.134+2	
4.396+0	6.627+0 1.087+1	4.075+0	2.067+0	9.312-3	1.998+0	5.087+0	1.602+0	4.348+2	
4.704+0	6.703+0 1.093+1	4.029+0	2.023+0	8.940-3	1.997+0	5.108+0	1.733+0	4.557+2	
4.921+0	6.715+0 1.095+1	4.021+0	2.017+0	8.535-3	1.996+0	5.193+0	1.860+0	4.775+2	
5.353+0	6.663+0 1.093+1	4.023+0	2.051+0	8.119-3	1.995+0	5.327+0	1.979+0	4.924+2	
5.659+0	6.609+0 1.091+1	4.086+0	2.065+0	7.697-3	1.993+0	5.459+0	2.102+0	5.082+2	
6.042+0	6.555+0 1.090+1	4.120+0	2.120+0	7.244-3	1.992+0	5.609+0	2.232+0	5.222+2	
6.367+0	6.503+0 1.053+1	4.153+0	2.155+0	6.810-3	1.991+0	5.754+0	2.362+0	5.334+2	
6.737+0	6.445+0 1.097+1	4.190+0	2.195+0	6.317-3	1.989+0	5.911+0	2.504+0	5.447+2	
7.156+0	6.386+0 1.102+1	4.229+0	2.235+0	5.810-3	1.988+0	6.071+0	2.637+0	5.566+2	
7.548+0	6.332+0 1.107+1	4.265+0	2.273+0	5.335-3	1.986+0	6.219+0	2.754+0	5.665+2	
7.910+0	6.264+0 1.111+1	4.314+0	2.311+0	4.869-3	1.985+0	6.352+0	2.866+0	5.748+2	
8.322+0	6.199+0 1.114+1	4.365+0	2.349+0	4.446-3	1.983+0	6.465+0	2.975+0	5.822+2	
8.787+0	6.058+0 1.119+1	4.458+0	2.472+0	4.018-3	1.982+0	6.777+0	3.077+0	5.878+2	
9.177+0	5.958+0 1.122+1	4.533+0	2.549+0	3.579-3	1.981+0	7.036+0	3.170+0	5.925+2	
9.665+0	5.857+0 1.128+1	4.611+0	2.628+0	3.208-3	1.979+0	7.339+0	3.156+0	5.967+2	
1.012+1	5.855+0 1.147+1	4.612+0	2.650+0	2.877-3	1.979+0	7.336+0	3.012+0	6.034+2	
1.058+1	5.868+0 1.160+1	4.602+0	2.650+0	2.551-3	1.978+0	7.238+0	2.765+0	6.113+2	
1.101+1	5.868+0 1.167+1	4.602+0	2.650+0	2.251-3	1.975+0	6.950+0	2.240+0	6.198+2	
1.155+1	5.869+0 1.177+1	4.631+0	2.650+0	1.933-3	1.972+0	6.639+0	1.715+0	6.275+2	
1.199+1	5.874+0 1.186+1	4.597+0	2.646+0	1.624-3	1.970+0	6.515+0	1.501+0	6.357+2	
1.250+1	5.886+0 1.191+1	4.588+0	2.637+0	1.349-3	1.967+0	6.343+0	1.435+0	6.588+2	
1.307+1	5.906+0 1.200+1	4.572+0	2.629+0	1.032-3	1.964+0	6.171+0	1.459+0	6.758+2	
1.354+1	5.927+0 1.210+1	4.556+0	2.623+0	8.085-4	1.962+0	6.139+0	1.522+0	6.882+2	
1.386+1	5.943+0 1.217+1	4.544+0	2.618+0	7.524-4	1.960+0	6.133+0	1.569+0	6.973+2	
1.413+1	5.953+0 1.223+1	4.532+0	2.613+0	7.446-4	1.918+0	6.081+0	1.613+0	7.057+2	
1.441+1	5.973+0 1.229+1	4.521+0	2.609+0	7.137-4	1.911+0	6.012+0	1.656+0	7.141+2	
1.468+1	5.995+0 1.237+1	4.504+0	2.602+0	6.693-4	1.901+0	5.844+0	1.719+0	7.258+2	
1.519+1	6.057+0 1.251+1	4.458+0	2.574+0	6.086+0	1.884+0	5.531+0	1.797+0	7.406+2	
1.575+1	6.178+0 1.285+1	4.371+0	2.533+0	5.450+0	1.864+0	4.921+0	1.789+0	7.502+2	
1.633+1	6.227+0 1.285+1	4.317+0	2.491+0	4.733+0	1.846+0	4.202+0	1.678+0	7.714+2	
1.692+1	6.291+0 1.291+1	4.293+0	2.448+0	4.124+0	1.844+0	4.118+0	1.582+0	8.048+2	
1.752+1	6.418+0 1.321+1	4.208+0	2.405+0	3.443+0	1.822+0	5.104+0	1.600+0	8.331+2	
1.813+1	6.536+0 1.346+1	4.131+0	2.361+0	2.750+0	1.770+0	5.999+0	1.658+0	8.572+2	
1.875+1	6.713+0 1.375+1	4.023+0	2.294+0	1.700+0	1.728+0	5.924+0	1.762+0	8.943+2	
2.000+1									
RESONANCE INTEGRALS		9.511+1	8.931+1	1.459+0	4.341+0	1.723+1			
MAXWELLIAN AVERAGES		5.054+0	4.514+0	5.404+0	1	1.670+0			
1/E AVERAGES		5.434+0	5.102+0	8.333+0	2.240+0	1.906+0			
FISSION AVERAGES		5.582+0	4.806+0	2.606+0	7.452+0	2.169+0			
FUSION AVERAGES		4.541+0	2.617+0	7.677+0	1.923+0	6.094+0			

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ENDL 175 Group Neutron Constants

56-Ba-138

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ENDL 175 Group Neutron Constants

56-Ba-138

ATOMIC WEIGHT			1.3790+2		DENSITY			3.5143+0 GRAMS/CC	
ENERGY		MF (CM)		CROSS SECTION (BARNS)			ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	8.119+0	8.154+0	8.025+0	7.000+0	1.025+0	1.896+0	6.016-1	1.093-5	5
5.227-9	8.672+0	8.712+0	7.514+0	7.000+0	5.138-1	9.505-1	3.220-1	5.652-6	9
2.091-8	8.874+0	8.915+0	7.343+0	7.000+0	3.428-1	6.342-1	2.193-1	3.996-6	6
3.267-8	8.950+0	8.992+0	7.280+0	7.000+0	2.804-1	5.188-1	1.814-1	3.396-6	6
4.704-8	9.024+0	9.057+0	7.221+0	7.000+0	2.206-1	4.081-1	1.439-1	2.617-6	6
6.322-8	9.085+0	9.129+0	7.172+0	7.000+0	1.716-1	3.175-1	1.127-1	2.052-6	6
1.307-7	9.126+0	9.169+0	7.140+0	7.000+0	1.402-1	2.594-1	9.251-2	1.686-6	6
1.882-7	9.153+0	9.197+0	7.119+0	7.000+0	1.186-1	2.195-1	7.850-2	1.433-6	6
2.561-7	9.174+0	9.218+0	7.103+0	7.000+0	1.028-1	1.902-1	6.818-2	1.247-6	6
3.345-7	9.189+0	9.234+0	7.091+0	7.000+0	9.071-2	1.678-1	6.025-2	1.105-6	6
4.234-7	9.201+0	9.246+0	7.082+0	7.000+0	8.159-2	1.504-1	5.427-2	9.979-7	6
5.123-7	9.215+0	9.260+0	7.070+0	7.000+0	7.040-2	1.382-1	4.690-2	8.672-7	7
7.527-7	9.231+0	9.276+0	7.057+0	7.000+0	5.709-2	1.056-1	3.810-2	7.137-7	7
1.176-6	9.245+0	9.290+0	7.048+0	7.000+0	4.817-2	8.911-2	3.219-2	6.131-7	7
1.511-6	9.253+0	9.298+0	7.042+0	7.000+0	4.173-2	7.720-2	2.791-2	5.434-7	7
2.091-6	9.261+0	9.306+0	7.036+0	7.000+0	3.617-2	6.692-2	2.421-2	4.869-7	7
2.741-6	9.263+0	9.308+0	7.034+0	7.000+0	3.340-2	6.360-2	2.302-2	4.704-7	7
3.533-6	9.264+0	9.309+0	7.033+0	7.000+0	3.349-2	6.195-2	2.243-2	4.650-7	7
4.704-6	9.265+0	9.310+0	7.033+0	7.000+0	3.276-2	6.051-2	2.194-2	4.585-7	7
5.658-6	9.266+0	9.311+0	7.032+0	7.000+0	3.224-2	5.964-2	2.159-2	5.094-7	7
6.737-6	9.267+0	9.312+0	7.032+0	7.000+0	3.165-2	5.855-2	2.120-2	5.268-7	7
8.322-6	9.267+0	9.312+0	7.031+0	7.000+0	3.113-2	5.759-2	2.085-2	5.470-7	7
9.620-6	9.268+0	9.313+0	7.031+0	7.000+0	3.073-2	5.685-2	2.059-2	5.668-7	7
1.101-5	9.268+0	9.314+0	7.030+0	7.000+0	3.029-2	5.603-2	2.028-2	5.529-7	7
1.307-5	9.269+0	9.314+0	7.030+0	7.000+0	2.996-2	5.542-2	2.007-2	6.225-7	7
1.448-5	9.269+0	9.314+0	7.030+0	7.000+0	2.972-2	5.498-2	1.991-2	6.446-7	7
1.581-5	9.269+0	9.315+0	7.029+0	7.000+0	2.947-2	5.451-2	1.974-2	6.679-7	7
1.758-5	9.270+0	9.315+0	7.027+0	7.000+0	2.921-2	5.403-2	1.957-2	6.919-7	7
1.982-5	9.270+0	9.315+0	7.029+0	7.000+0	2.893-2	5.352-2	1.939-2	7.170-7	7
2.075-5	9.271+0	9.316+0	7.029+0	7.000+0	2.864-2	5.298-2	1.919-2	7.490-7	7
2.277-5	9.271+0	9.316+0	7.028+0	7.000+0	2.847-2	5.267-2	1.908-2	7.780-7	7
2.417-5	9.271+0	9.316+0	7.028+0	7.000+0	2.834-2	5.242-2	1.899-2	8.020-7	7
2.561-5	9.271+0	9.316+0	7.028+0	7.000+0	2.820-2	5.217-2	1.890-2	8.267-7	7
2.710-5	9.271+0	9.317+0	7.028+0	7.000+0	2.806-2	5.190-2	1.880-2	8.520-7	7
2.862-5	9.271+0	9.317+0	7.028+0	7.000+0	2.795-2	5.170-2	1.873-2	8.714-7	7
2.940-5	9.272+0	9.317+0	7.028+0	7.000+0	2.783-2	5.149-2	1.866-2	8.912-7	7
3.099-5	9.272+0	9.317+0	7.028+0	7.000+0	2.764-2	5.114-2	1.853-2	9.251-7	7
3.345-5	9.272+0	9.317+0	7.027+0	7.000+0	2.741-2	5.071-2	1.837-2	9.569-7	7
3.601-5	9.272+0	9.318+0	7.027+0	7.000+0	2.723-2	5.038-2	1.825-2	1.011-6	6
3.866-5	9.273+0	9.318+0	7.027+0	7.000+0	2.711-2	5.015-2	1.817-2	1.050-6	6
4.040-5	9.273+0	9.318+0	7.027+0	7.000+0	2.700-2	4.996-2	1.810-2	1.081-6	6
4.234-5	9.273+0	9.318+0	7.027+0	7.000+0	2.693-2	4.981-2	1.805-2	1.106-6	6
4.329-5	9.273+0	9.318+0	7.027+0	7.000+0	2.682-2	4.961-2	1.798-2	1.139-6	6
4.619-5	9.273+0	9.318+0	7.027+0	7.000+0	2.671-2	4.941-2	1.790-2	1.172-6	6
4.717-5	9.273+0	9.318+0	7.027+0	7.000+0	2.663-2	4.926-2	1.785-2	1.197-6	6
4.918-5	9.273+0	9.319+0	7.027+0	7.000+0	2.651-2	4.905-2	1.777-2	1.232-6	6
5.123-5	9.273+0	9.319+0	7.026+0	7.000+0	2.640-2	4.883-2	1.769-2	1.267-6	6
5.332-5	9.274+0	9.319+0	7.026+0	7.000+0	2.625-2	4.856-2	1.760-2	1.312-6	6
5.654-5	9.274+0	9.319+0	7.026+0	7.000+0	2.616-2	4.840-2	1.754-2	1.349-6	6
5.763-5	9.274+0	9.319+0	7.026+0	7.000+0	2.608-2	4.825-2	1.748-2	1.388-6	6
5.997-5	9.274+0	9.319+0	7.026+0	7.000+0	2.598-2	4.807-2	1.742-2	1.437-6	6
6.325-5	9.274+0	9.319+0	7.026+0	7.000+0	2.590-2	4.792-2	1.736-2	1.476-6	6
6.557-5	9.274+0	9.320+0	7.026+0	7.000+0	2.584-2	4.780-2	1.732-2	1.506-6	6
6.674-5	9.274+0	9.320+0	7.026+0	7.000+0	2.576-2	4.765-2	1.727-2	1.548-6	6
7.034-5	9.274+0	9.320+0	7.026+0	7.000+0	2.567-2	4.749-2	1.721-2	1.589-6	6
7.155-5	9.275+0	9.320+0	7.026+0	7.000+0	2.558-2	4.733-2	1.715-2	1.631-6	6
7.527-5	9.275+0	9.320+0	7.025+0	7.000+0	2.547-2	4.715-2	1.708-2	1.686-6	6
7.780-5	9.275+0	9.320+0	7.025+0	7.000+0	2.541-2	4.700-2	1.703-2	1.718-6	6
7.908-5	9.275+0	9.320+0	7.025+0	7.000+0	2.534-2	4.688-2	1.699-2	1.751-6	6
8.167-5	9.275+0	9.320+0	7.025+0	7.000+0	2.525-2	4.671-2	1.693-2	1.796-6	6
8.431-5	9.275+0	9.320+0	7.025+0	7.000+0	2.517-2	4.656-2	1.688-2	1.854-6	6
8.834-5	9.275+0	9.321+0	7.025+0	7.000+0	2.509-2	4.642-2	1.682-2	1.912-6	6

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ATOMIC WEIGHT 1.3790 * 2		DENSITY 3.5143 * 0 GRAMS/CC							
ENERGY	MFP (CM)	CRUSS SECTION (BARNs)						ENERGY DEPOSIT(MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108 -5	9.275 0	9.321 +0	7.025 0	7.000 0	2.503 -2		4.630 -2	1.678 -2	1.960 -6
9.386 -5	9.275 0	9.321 +0	7.025 0	7.000 0	2.496 -2		4.618 -2	1.674 -2	2.009 -6
9.668 -5	9.275 0	9.321 +0	7.025 0	7.000 0	2.491 -2		4.609 -2	1.670 -2	2.045 -6
9.911 -5	9.276 0	9.321 +0	7.025 0	7.000 0	2.484 -2		4.596 -2	1.666 -2	2.095 -6
1.025 -4	9.276 0	9.321 +0	7.025 0	7.000 0	2.471 -2		4.571 -2	1.657 -2	2.197 -6
1.099 -4	9.276 0	9.321 +0	7.025 0	7.000 0	2.453 -2		4.530 -2	1.645 -2	2.327 -6
1.176 -4	9.276 0	9.321 +0	7.024 0	7.000 0	2.438 -2		4.510 -2	1.635 -2	2.463 -6
1.256 -4	9.276 0	9.322 +0	7.024 0	7.000 0	2.426 -2		4.489 -2	1.627 -2	2.604 -6
1.338 -4	9.276 0	9.322 +0	7.024 0	7.000 0	2.416 -2		4.470 -2	1.621 -2	2.734 -6
1.406 -4	9.277 0	9.322 +0	7.024 0	7.000 0	2.405 -2		4.449 -2	1.613 -2	2.880 -6
1.511 -4	9.277 0	9.322 +0	7.024 0	7.000 0	2.392 -2		4.425 -2	1.604 -2	3.052 -6
1.601 -4	9.277 0	9.322 +0	7.024 0	7.000 0	2.379 -2		4.402 -2	1.596 -2	3.210 -6
1.694 -4	9.277 0	9.322 +0	7.024 0	7.000 0	2.367 -2		4.378 -2	1.587 -2	3.373 -6
1.789 -4	9.277 0	9.323 +0	7.024 0	7.000 0	2.354 -2		4.354 -2	1.579 -2	3.539 -6
1.887 -4	9.277 0	9.323 +0	7.023 0	7.000 0	2.340 -2		4.330 -2	1.570 -2	3.710 -6
1.986 -4	9.278 0	9.323 +0	7.023 0	7.000 0	2.326 -2		4.304 -2	1.561 -2	3.889 -6
2.091 -4	9.278 0	9.323 +0	7.023 0	7.000 0	2.299 -2		4.236 -2	1.536 -2	4.532 -6
2.741 -4	9.279 0	9.324 +0	7.022 0	7.000 0	2.246 -2		4.156 -2	1.507 -2	5.544 -6
3.267 -4	9.279 0	9.325 +0	7.022 0	7.000 0	2.208 -2		4.084 -2	1.481 -2	6.459 -6
3.811 -4	9.280 0	9.325 +0	7.022 0	7.000 0	2.171 -2		4.017 -2	1.457 -2	7.690 -6
4.704 -4	9.280 0	9.325 +0	7.021 0	7.000 0	2.146 -2		3.971 -2	1.440 -2	8.700 -6
4.991 -4	9.280 0	9.326 +0	7.021 0	7.000 0	2.126 -2		3.933 -2	1.427 -2	9.512 -6
5.658 -4	9.281 0	9.326 +0	7.021 0	7.000 0	2.110 -2		3.893 -2	1.412 -2	1.041 -5
6.042 -4	9.281 0	9.326 +0	7.021 0	7.000 0	2.093 -2		3.872 -2	1.405 -2	1.101 -5
6.367 -4	9.281 0	9.326 +0	7.021 0	7.000 0	2.077 -2		3.844 -2	1.395 -2	1.196 -5
7.156 -4	9.281 0	9.327 +0	7.021 0	7.000 0	2.051 -2		3.795 -2	1.377 -2	1.362 -5
8.322 -4	9.282 0	9.327 +0	7.020 0	7.000 0	2.026 -2		3.749 -2	1.361 -2	1.533 -5
9.177 -4	9.282 0	9.327 +0	7.020 0	7.000 0	2.002 -2		3.705 -2	1.345 -2	1.725 -5
1.058 -3	9.282 0	9.328 +0	7.020 0	7.000 0	1.982 -2		3.631 -2	1.318 -2	2.052 -5
1.307 -3	9.283 0	9.328 +0	7.019 0	7.000 0	1.913 -2		3.540 -2	1.285 -2	2.490 -5
1.581 -3	9.284 0	9.329 +0	7.019 0	7.000 0	1.870 -2		3.462 -2	1.258 -2	2.970 -5
1.862 -3	9.284 0	9.330 +0	7.019 0	7.000 0	1.831 -2		3.390 -2	1.232 -2	3.493 -5
2.208 -3	9.285 0	9.330 +0	7.018 0	7.000 0	1.796 -2		3.325 -2	1.209 -2	4.057 -5
2.561 -3	9.285 0	9.330 +0	7.018 0	7.000 0	1.767 -2		3.271 -2	1.190 -2	4.665 -5
2.940 -3	9.285 0	9.331 +0	7.017 0	7.000 0	1.741 -2		3.225 -2	1.174 -2	5.315 -5
3.345 -3	9.286 0	9.331 +0	7.017 0	7.000 0	1.714 -2		3.175 -2	1.156 -2	6.005 -5
3.777 -3	9.286 0	9.332 +0	7.017 0	7.000 0	1.685 -2		3.127 -2	1.138 -2	6.735 -5
4.234 -3	9.287 0	9.332 +0	7.016 0	7.000 0	1.641 -2		3.041 -2	1.110 -2	7.639 -5
5.763 -3	9.285 0	9.330 0	7.018 0	7.002 0	1.582 -2		2.933 -2	1.073 -2	1.106 -4
7.527 -3	8.576 0	8.618 0	7.598 0	7.503 0	1.526 -2		2.885 -2	9.602 2	3.1436 -4
1.025 -2	1.086 1	1.091 1	6.000 0	5.986 0	1.381 -2		4.022 -2	1.105 -2	2.113 -4
1.511 -2	1.003 1	1.008 1	6.499 0	6.487 0	1.151 -2		3.667 -2	8.637 3	2.931 4
2.091 -2	1.002 1	1.007 1	6.501 0	6.491 0	0.995 3		3.289 -2	7.618 3	3.771 4
2.546 -2	7.154 0	7.189 0	9.108 0	9.100 0	6.736 3		2.898 -2	4.980 3	4.630 4
3.267 -2	9.693 0	9.742 0	6.721 0	6.714 0	7.336 3		2.463 -2	5.696 3	5.556 4
3.953 -2	9.969 0	9.616 0	6.809 0	6.803 0	6.140 3		1.985 -2	4.906 3	6.587 4
4.704 -2	8.512 0	8.553 0	7.655 0	7.650 0	5.253 3		1.534 -2	4.022 3	7.895 4
5.761 -2	6.627 0	6.295 0	7.894 0	7.889 0	4.514 3		1.388 -2	3.657 3	9.633 4
7.002 -2	4.450 0	4.977 0	6.895 0	6.891 0	4.024 3		1.237 -2	3.897 3	1.148 3
8.322 -2	1.066 1	1.091 1	6.000 0	5.997 0	3.638 3		1.073 -2	4.223 3	1.367 3
9.891 -2	6.007 0	6.046 0	8.138 0	8.135 0	3.193 3		9.134 3	3.513 3	1.665 3
1.307 -1	9.185 0	9.533 0	7.110 0	7.107 0	2.612 3		7.498 3	3.878 3	2.147 3
1.820 -1	9.668 0	1.080 1	6.603 0	6.601 0	2.087 3		6.004 3	4.078 3	2.589 3
2.075 -1	1.278 1	1.439 1	5.098 0	5.096 0	1.841 3		5.597 3	4.704 3	2.913 3
2.447 -1	1.274 1	1.460 1	5.225 0	5.223 0	1.855 3		5.389 3	4.687 3	3.205 3
2.710 -1	1.223 1	1.491 1	5.330 0	5.328 0	1.802 3		5.217 3	5.012 3	3.413 3
2.940 -1	1.197 1	1.491 1	5.445 0	5.443 0	1.728 3		5.086 3	5.147 3	3.651 3
3.345 -1	1.231 1	1.615 1	5.292 0	5.291 0	1.700 3		5.030 3	5.425 3	3.912 3
3.777 -1	1.284 1	1.785 1	5.076 0	5.074 0	1.710 3		5.012 3	5.750 3	4.163 3
4.234 -1	1.195 1	1.774 1	5.452 0	5.450 0	1.813 3		5.340 3	5.981 3	4.413 3
5.123 -1	1.993 1	1.825 1	5.951 0	5.950 0	1.03 3		6.083 3	6.813 3	5.203 3
6.325 -1	1.051 1	1.730 1	6.199 0	6.197 0	2.406 3		7.223 3	8.243 3	6.413 3

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ENDL 175 Group Neutron Constants

56-Ba-138

ATOMIC WEIGHT 1.3790+2			DENSITY 3.5143+0 GRAMS/CC						
ENERGY MEV	MFP (CM)		CROSS SECTION (BARNS)					ENERGY DEPOSIT(MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1	1.005+1	1.631+1	6.481+0	6.476+0	2.787-3	8.447-3	9.741-3	7.713-3	3
8.633-1	9.760+0	1.559+1	6.676+0	6.673+0	3.152-3	9.666-3	1.139-2	9.167-3	3
1.025+0	9.487+0	1.501+1	6.869+0	6.865+0	3.338-3	1.097-2	1.267-2	1.044-2	2
1.176+0	9.120+0	1.487+1	7.145+0	7.141+0	3.653-3	1.204-2	1.414-2	1.160-2	2
1.338+0	8.851+0	1.485+1	7.362+0	7.310+0	3.949-3	4.789-2	2.407-1	2.444+0	2
1.511+0	8.608+0	1.479+1	7.598+0	6.981+0	4.000-3	4.122-1	1.210+0	9.515-2	2
1.694+0	8.341+0	1.538+1	7.207+0	6.587+0	3.864-3	6.157-1	1.750+0	1.388-1	2
1.887+0	8.441+0	1.605+1	6.902+0	5.985+0	3.243-3	9.140-1	2.548+0	2.099-1	2
2.091+0	9.681+0	1.647+1	5.730+0	5.545+0	2.541-3	1.193+0	3.254+0	2.775-1	2
2.305+0	9.583+0	1.636+1	6.799+0	5.351+0	2.430-3	1.446+0	3.946+0	4.220-1	2
2.530+0	1.018+1	1.753+1	6.404+0	4.846+0	2.851-3	1.554+0	4.231+0	5.556-1	2
2.771+0	1.060+1	1.849+1	6.148+0	4.520+0	3.401-3	1.625+0	4.262+0	6.500-1	2
3.011+0	1.110+1	1.966+1	5.869+0	4.163+0	4.003-3	1.702+0	4.363+0	7.680-1	2
3.267+0	1.153+1	2.065+1	5.653+0	3.869+0	4.779-3	1.779+0	4.522+0	8.925-1	2
3.533+0	1.190+1	2.154+1	5.474+0	3.609+0	5.723-3	1.859+0	4.707+0	1.030+0	2
3.811+0	1.230+1	2.240+1	5.298+0	3.354+0	6.654-3	1.938+0	4.901+0	1.186+0	2
4.069+0	1.276+1	2.290+1	5.106+0	3.075+0	7.672-3	2.024+0	5.162+0	1.381+0	2
4.393+0	1.330+1	2.270+1	4.899+0	2.772+0	8.776-3	2.118+0	5.483+0	1.620+0	2
4.704+0	1.385+1	2.254+1	4.703+0	2.488+0	9.810-3	2.205+0	5.850+0	1.876+0	2
4.991+0	1.421+1	2.247+1	4.566+0	2.325+0	1.099-2	2.250+0	6.127+0	2.177+0	2
5.353+0	1.431+1	2.247+1	4.552+0	2.291+0	1.107-2	2.250+0	6.292+0	2.275+0	2
5.658+0	1.442+1	2.248+1	4.517+0	2.256+0	1.156-2	2.250+0	6.449+0	2.456+0	2
6.042+0	1.454+1	2.250+1	4.481+0	2.219+0	1.214-2	2.250+0	6.633+0	2.655+0	2
6.367+0	1.461+1	2.263+1	4.459+0	2.197+0	1.277-2	2.250+0	6.829+0	2.844+0	2
6.731+0	1.454+1	2.269+1	4.493+0	2.219+0	1.353-2	2.250+0	7.043+0	3.026+0	2
7.156+0	1.445+1	2.273+1	4.511+0	2.246+0	1.431-2	2.250+0	7.284+0	3.171+0	2
7.540+0	1.436+1	2.278+1	4.537+0	2.272+0	1.503-2	2.250+0	7.466+0	3.295+0	2
7.910+0	1.428+1	2.283+1	4.564+0	2.298+0	1.578-2	2.250+0	7.677+0	3.420+0	2
8.322+0	1.417+1	2.293+1	4.599+0	2.332+0	1.663-2	2.250+0	7.549+0	3.523+0	2
8.787+0	1.387+1	2.281+1	4.698+0	2.408+0	1.759-2	2.273+0	6.355+0	2.739+0	2
9.177+0	1.349+1	2.312+1	4.829+0	2.594+0	1.865-2	2.216+0	7.133+0	1.697+0	2
9.665+0	1.313+1	2.335+1	4.963+0	2.759+0	1.979-2	2.184+0	7.329+0	1.499+0	2
1.012+1	1.303+1	2.366+1	5.000+0	2.813+0	2.089-2	2.155+0	7.257+0	1.507+0	2
1.058+1	1.303+1	2.403+1	5.000+0	2.830+0	2.196-2	2.148+0	7.206+0	1.521+0	2
1.101+1	1.303+1	2.443+1	4.999+0	2.849+0	2.311-2	2.127+0	7.147+0	1.574+0	2
1.155+1	1.303+1	2.491+1	4.999+0	2.871+0	2.429-2	2.104+0	6.983+0	1.655+0	2
1.199+1	1.303+1	2.536+1	4.999+0	2.893+0	2.543-2	2.081+0	6.866+0	1.732+0	2
1.250+1	1.303+1	2.577+1	4.999+0	2.917+0	2.672-2	2.056+0	6.779+0	1.796+0	2
1.307+1	1.303+1	2.621+1	4.999+0	2.940+0	2.798-2	2.031+0	6.562+0	1.840+0	2
1.354+1	1.303+1	2.657+1	4.999+0	2.958+0	2.893-2	2.012+0	6.362+0	1.872+0	2
1.396+1	1.303+1	2.679+1	4.999+0	2.971+0	2.964-2	1.996+0	6.221+0	1.896+0	2
1.413+1	1.303+1	2.699+1	4.999+0	2.963+0	3.029-2	1.986+0	6.152+0	1.918+0	2
1.441+1	1.304+1	2.719+1	4.999+0	2.995+0	3.095-2	1.972+0	6.086+0	1.940+0	2
1.468+1	1.311+1	2.753+1	4.999+0	2.989+0	3.197-2	1.948+0	5.971+0	1.949+0	2
1.519+1	1.320+1	2.781+1	4.999+0	2.974+0	3.430-2	1.929+0	5.912+0	2.065+0	2
1.575+1	1.318+1	2.763+1	4.964+0	2.958+0	3.705-2	1.950+0	5.808+0	2.012+0	2
1.633+1	1.313+1	2.739+1	4.961+0	2.942+0	3.985-2	1.979+0	5.598+0	1.809+0	2
1.692+1	1.331+1	2.811+1	4.897+0	2.926+0	4.270-2	1.928+0	5.573+0	1.762+0	2
1.752+1	1.336+1	2.832+1	4.876+0	2.910+0	4.560-2	1.921+0	5.533+0	1.825+0	2
1.813+1	1.346+1	2.872+1	4.841+0	2.893+0	4.855-2	1.900+0	5.634+0	1.923+0	2
1.875+1	1.364+1	2.927+1	4.778+0	2.867+0	5.303-2	1.858+0	5.455+0	2.030+0	2
2.000+1									1
RESONANCE INTEGRALS			1.170+2	1.120+2	3.524+1	4.671+0	1.453+1		
MAXWELLIAN AVERAGES			7.312+0	7.000+0	3.117-1		5.766-1		
1/E AVERAGES			6.687+0	6.400+0	2.013-2	2.669-1	8.301-1		
FISSION AVERAGES			6.271+0	5.474+0	4.248-3	7.934-1	2.163+0		
FUSION AVERAGES			4.997+0	2.973+0	2.981-2	1.995+0	6.232+0		

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ENDL 175 Group Neutron Constants

63-Eu-Na

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ENDL 175 Group Neutron Constants

63-Eu-Nat

ATOMIC WEIGHT		15196.2		DENSITY		5.2450 ± 0 GRAMS/CC			
ENERGY (MEV)		HFP (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)	
NEUT		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD	TOTAL LOCAL
9.108-5	3.643	3.644	1.321	8.529	0.235	2.014	2.586	0.2145	4
9.380-5	3.696	3.697	1.235	8.704	0.148	2.801	5.819	0.2158	4
9.668-5	4.113	4.114	1.170	8.837	0.1081	2.639	5.787	0.2166	4
9.811-5	4.369	4.370	1.101	8.981	0.111	2.468	5.750	0.2178	4
1.025-4	4.567	4.568	1.077	9.062	0.0864	2.407	5.733	0.2205	4
1.099-4	4.534	4.536	1.061	9.139	0.9897	2.366	5.721	0.2290	4
1.176-4	4.605	4.607	1.045	9.216	0.9525	2.324	5.708	0.2356	4
1.256-4	4.682	4.683	1.028	9.297	0.9347	2.281	5.694	0.2423	4
1.338-4	4.754	4.756	1.012	9.372	0.9162	2.240	5.680	0.2485	4
1.406-4	4.841	4.843	0.998	9.458	0.8992	2.195	5.665	0.2556	4
1.511-4	4.943	4.945	0.973	9.556	0.8777	2.142	5.646	0.2635	4
1.601-4	5.042	5.045	0.951	9.647	0.8576	2.093	5.627	0.2708	4
1.694-4	5.149	5.151	0.934	9.741	0.8369	2.042	5.607	0.2782	4
1.789-4	5.264	5.266	0.910	9.839	0.8156	1.990	5.586	0.2858	4
1.887-4	5.386	5.389	0.882	9.937	0.7938	1.937	5.564	0.2934	4
1.986-4	5.516	5.519	0.860	10.000	0.7710	1.752	5.508	0.2996	4
2.091-4	5.643	5.646	0.803	10.000	0.6999	1.976	5.631	0.3391	4
2.274-4	6.132	6.135	0.845	10.000	0.5954	1.695	5.942	0.3851	4
3.267-4	7.742	7.747	0.214	10.000	0.5314	1.297	6.354	0.4777	4
5.811-4	7.148	7.152	0.730	10.000	0.8304	1.423	5.423	0.4878	4
4.704-4	7.242	7.247	0.667	10.000	0.5747	1.402	5.413	0.5358	4
4.991-4	8.554	8.510	0.567	10.000	0.4757	1.161	5.265	0.5598	4
5.658-4	8.887	8.894	0.413	10.000	0.4513	1.101	5.220	0.6005	4
6.502-4	9.155	9.162	0.255	10.000	0.4351	1.063	5.188	0.6257	4
6.367-4	10.024	10.131	0.331	10.000	0.4431	1.081	5.204	0.6229	4
7.156-4	9.714	9.722	0.452	10.000	0.4052	0.889	5.123	0.7440	4
8.322-4	9.680	9.688	0.370	10.000	0.4071	0.935	5.128	0.8251	4
9.177-4	1.067	1.068	0.510	10.000	0.3654	0.821	5.018	0.8911	4
1.056-3	1.189	1.192	0.047	10.000	0.3159	0.710	4.888	0.1026	3
1.307-3	1.341	1.343	0.356	10.000	0.2708	0.609	4.728	0.1180	3
1.581-3	1.393	1.395	0.344	10.000	0.2586	0.521	4.688	0.1397	3
1.882-3	1.456	1.458	0.216	10.000	0.2360	0.570	4.594	0.1594	3
2.208-3	1.665	1.668	0.288	10.000	0.2044	0.489	4.432	0.1780	3
2.581-3	1.795	1.796	0.283	10.000	0.1852	0.450	4.323	0.1989	3
2.940-3	1.875	1.877	0.256	10.000	0.1666	0.421	4.270	0.2234	3
3.345-3	1.944	1.947	0.245	10.000	0.1654	0.439	4.197	0.2474	3
3.777-3	1.989	1.992	0.249	10.000	0.1519	0.709	3.934	0.2602	3
4.234-3	2.125	2.129	0.254	10.000	0.1364	0.330	3.774	0.3087	3
5.763-3	2.421	2.426	0.187	10.000	0.1087	2.655	3.428	0.3716	3
7.527-3	2.664	2.669	0.1806	10.000	0.0862	2.205	3.145	0.4535	3
1.025-2	3.023	3.036	0.1888	10.000	0.0885	1.888	2.719	0.5526	3
1.511-2	3.567	3.577	0.1349	10.000	0.4488	1.726	2.089	0.6108	3
2.091-2	3.809	3.821	0.1263	10.000	0.3631	1.553	1.607	0.7005	3
2.646-2	3.978	3.992	0.1209	10.011	0.3081	1.373	1.603	0.7788	3
3.267-2	4.038	4.052	0.1191	9.113	0.2791	0.8714	1.174	0.8784	3
3.953-2	4.074	4.088	0.1181	9.247	0.2544	1.898	0.949	0.9725	3
4.704-2	4.119	4.133	0.1168	9.415	0.2344	3.190	0.7466	1.0502	2
5.761-2	4.176	4.192	0.1152	9.608	0.1864	4.736	0.6899	1.0952	2
7.002-2	4.235	4.241	0.1136	9.658	0.1657	5.569	0.5936	1.2032	2
8.322-2	4.302	4.316	0.1119	9.624	0.1502	6.278	0.5086	1.3172	2
9.831-2	3.680	3.685	0.1102	3.600	0.1344	7.441	0.439	1.518	2
1.307-1	4.448	4.466	0.1081	9.543	0.1175	9.697	0.4094	1.8622	2
1.620-1	4.583	4.601	0.1050	9.333	0.1024	1.417	3.786	0.330	2
2.075-1	4.695	4.713	0.1025	9.102	0.9590	1.866	3.733	0.6115	2
2.417-1	4.812	4.831	0.9998	8.857	0.9061	2.343	3.733	0.966	2
2.710-1	4.913	4.933	0.791	8.655	0.8255	2.737	3.733	0.836	2
2.940-1	5.012	5.031	0.9599	8.454	0.8055	3.258	3.721	0.835	2
3.345-1	5.099	5.119	0.9434	8.293	0.7398	4.010	3.686	0.506	2
3.777-1	5.195	5.215	0.9261	8.114	0.6588	4.809	3.660	0.4939	2
4.234-1	5.346	5.367	0.8998	7.842	0.5444	6.021	3.733	0.4355	2
5.123-1	5.554	5.617	0.8662	7.420	0.5177	7.903	4.066	0.3882	2
6.325-1	5.788	6.301	0.8312	6.934	0.3716	1.007	4.461	0.3774	2

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ENDL 175 Group Neutron Constants

63-Eu-Nat

ATOMIC WEIGHT 151.964 ±			DENSITY 5.2450 ± 0 GRAMS/CC		
ENERGY MEV	MP (CHI)		CROSS SECTION (BARN)		
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB+REMAINDER
			GAM-PROD		
			TOTAL	LOCAL	
7.527	1.6043	7.088	7.961	5.442	2.991
8.834	1.6303	7.021	7.633	5.966	2.619
1.025	1.6402	8.773	7.514	5.675	2.425
1.176	1.6421	8.782	7.493	5.475	2.307
1.338	1.6459	8.820	7.449	5.270	2.182
1.511	1.6465	8.957	7.339	5.047	2.048
1.694	1.6472	9.116	7.211	4.820	1.907
1.887	1.6480	9.345	7.043	4.572	1.758
2.091	1.6511	9.534	6.921	4.382	1.602
2.305	1.7085	9.747	6.790	4.195	1.437
2.530	1.7238	9.992	6.647	4.010	1.273
2.741	1.7420	1.025	6.484	3.805	1.093
3.011	1.7623	1.059	6.314	3.617	9.956
3.267	1.7798	1.088	6.170	3.450	9.672
3.533	1.7999	1.121	6.014	3.297	9.450
3.811	1.8214	1.157	5.857	3.138	9.230
4.069	1.8426	1.193	5.710	2.995	8.991
4.396	1.8665	1.229	5.552	2.852	8.730
4.704	1.8927	1.265	5.407	2.719	8.497
4.991	1.9069	1.297	5.294	2.637	8.221
5.353	1.9184	1.329	5.250	2.612	7.948
5.658	1.9253	1.357	5.199	2.586	7.668
6.042	1.9341	1.390	5.150	2.560	7.376
6.367	1.9428	1.420	5.103	2.534	7.091
6.737	1.9531	1.455	5.048	2.513	6.768
7.156	1.9654	1.490	4.984	2.455	6.436
7.598	1.9774	1.515	4.922	2.427	6.127
7.910	1.9850	1.537	4.884	2.411	5.811
8.322	1.9999	1.549	4.910	2.455	5.451
8.787	1.9938	1.587	4.890	2.498	5.101
9.177	1.9758	1.593	4.930	2.542	4.742
9.665	1.9725	1.617	4.945	2.589	4.355
1.012	1.9684	1.633	4.968	2.628	3.979
1.058	1.9662	1.644	5.000	2.664	3.613
1.101	1.9569	1.658	5.026	2.702	3.219
1.155	1.9525	1.679	5.051	2.742	2.818
1.199	1.9484	1.694	5.073	2.780	2.428
1.250	1.9437	1.720	5.099	2.824	2.055
1.307	1.9392	1.746	5.125	2.864	1.681
1.354	1.9358	1.766	5.141	2.896	1.235
1.386	1.9333	1.794	5.155	2.920	9.926
1.413	1.9310	1.798	5.168	2.942	7.698
1.441	1.9287	1.812	5.181	2.964	5.543
1.468	1.9253	1.825	5.199	2.993	4.752
1.519	1.9181	1.822	5.240	3.012	4.310
1.575	1.9155	1.839	5.250	3.026	3.930
1.633	1.9277	1.684	5.214	3.041	3.497
1.692	1.9250	1.504	5.201	3.046	3.057
1.752	1.9308	1.530	5.169	3.036	2.609
1.813	1.9369	1.956	5.135	3.026	2.152
1.875	1.9462	1.993	5.085	3.010	1.461
2.000					
RESONANCE INTEGRALS			3.364	3.1347	2.3221
MAXWELLIAN AVERAGES			3.455	3.8000	3.4573
1/E AVERAGES			1.922	7.697	1.840
FISSION AVERAGES			7.354	5.226	3.006
FISSION AVERAGES			5.168	2.925	9.529

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ENDL 175 Group Neutron Constants

64-Gd-Nat

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ENDL 175 Group Neutron Constants

64-Gd-Nat

ATOMIC WEIGHT 157.25		DENSITY 7.8600 D GRAMS/CC							
ENERGY 175 (CM)		CROSS SECTION (BARNs)		ENERGY OF POSITIVEV (MEV)					
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	1.935-4	1.935-4	1.717-4	1.200-1	1.717-5	5.787-5	8.039-0	2.191-4	4
1.307-9	4.529-4	4.529-4	7.334-4	1.200-1	7.333-4	2.471-5	8.039-0	2.191-4	4
1.307-9	7.402-4	7.402-4	4.488-4	1.200-1	4.487-4	1.512-5	8.038-0	2.191-4	4
1.307-9	9.504-4	9.504-4	3.496-4	1.200-1	3.494-4	1.178-5	8.037-0	2.191-4	4
1.307-9	1.460-3	1.460-3	2.276-4	1.200-1	2.274-4	7.665-5	8.036-0	2.191-4	4
1.307-9	2.780-3	2.780-3	1.195-4	1.200-1	1.194-4	4.023-4	8.032-0	2.190-4	4
1.307-9	5.879-3	5.879-3	5.651-3	1.200-1	5.639-3	1.900-4	8.023-0	2.188-4	4
1.307-9	1.341-2	1.341-2	2.478-3	1.200-1	2.466-3	6.310-3	8.001-0	2.183-4	4
1.307-9	2.881-2	2.881-2	1.169-2	1.200-1	1.157-3	3.900-3	7.957-0	2.172-4	4
1.307-9	5.615-2	5.615-2	5.917-2	1.200-1	5.797-2	1.953-3	7.877-0	2.150-4	4
1.307-9	1.051-1	1.051-1	3.162-2	1.200-1	3.042-2	1.025-3	7.735-0	2.113-4	4
1.307-9	2.233-1	2.233-1	1.488-2	1.200-1	1.368-2	4.609-2	7.391-0	2.020-4	4
1.307-9	5.558-1	5.562-1	5.978-1	1.189-1	4.789-1	1.614-2	6.441-1	1.763-4	4
1.307-9	8.095-1	8.095-1	4.128-1	1.098-1	3.011-1	1.015-2	5.892-1	1.616-4	4
1.307-9	3.476-1	3.480-1	9.556-1	1.969-1	7.588-1	2.557-2	7.384-1	1.755-4	4
1.307-9	8.027-2	8.023-2	4.142-2	1.957-2	3.346-2	1.330-3	7.660-1	2.112-4	4
1.307-9	3.307-1	3.309-1	1.309-2	1.215-1	8.630-1	2.976-2	7.068-1	2.112-4	4
1.307-9	1.710-0	1.714-0	1.943-1	1.017-1	9.253-0	3.118-1	3.630-1	1.063-4	4
1.307-9	1.771-0	1.775-0	1.876-1	1.043-1	8.328-0	2.806-1	3.569-1	9.963-5	4
1.307-9	2.351-1	2.352-1	1.413-2	1.407-1	1.273-2	4.288-2	7.240-1	2.030-4	4
1.307-9	6.366-1	6.366-1	5.623-1	1.056-1	4.167-1	1.404-2	6.414-1	1.810-4	4
1.307-9	2.010-0	2.015-0	1.653-1	1.500-0	6.532-0	2.201-1	3.177-1	9.010-5	4
1.307-9	2.255-0	2.064-0	1.617-1	1.005-0	6.077-0	2.048-1	3.021-1	9.623-5	4
1.307-9	7.591-1	7.591-1	4.381-1	1.219-1	3.163-1	5.066-1	5.800-1	9.623-5	4
1.307-9	1.076-0	1.077-0	3.059-1	1.116-1	1.973-1	6.646-1	5.135-1	1.490-4	4
1.307-9	6.452-1	6.498-1	5.117-1	1.138-1	3.979-1	1.341-2	6.252-1	1.819-4	4
1.307-9	1.045-1	1.045-1	3.180-2	2.597-1	2.922-2	9.046-2	7.386-1	9.288-5	4
1.307-9	1.901-0	1.905-0	1.746-1	1.046-1	7.016-0	2.365-1	3.227-1	9.528-5	4
1.307-9	2.707-1	2.709-1	1.227-2	2.048-1	1.022-2	3.445-2	6.598-1	1.993-4	4
1.307-9	5.235-2	5.241-2	6.346-2	1.669-2	4.676-2	1.576-3	5.925-1	1.993-4	4
1.307-9	1.348-1	1.349-1	2.465-2	4.159-1	2.049-2	6.905-2	6.680-1	2.014-4	4
1.307-9	8.939-1	8.947-1	3.717-1	7.934-0	2.923-1	9.851-1	6.324-1	1.917-4	4
1.307-9	6.450-1	6.457-1	5.151-1	1.342-1	3.809-1	1.284-2	5.945-1	1.813-4	4
1.307-9	1.679-0	1.683-0	1.978-1	1.037-1	9.419-0	3.174-1	3.828-1	1.777-4	4
1.307-9	3.787-1	3.787-1	8.728-1	1.394-1	7.384-1	2.488-2	6.763-1	2.087-4	4
1.307-9	2.056-1	2.057-1	1.616-2	1.597-1	1.456-2	4.907-2	7.245-1	2.087-4	4
1.307-9	5.486-1	5.486-1	6.058-1	2.603-1	3.453-1	1.164-2	4.594-1	1.430-4	4
1.307-9	1.602-1	1.602-1	2.074-2	1.674-1	1.906-2	6.425-2	7.391-1	2.326-4	4
1.307-9	9.623-1	9.636-1	3.452-1	1.141-1	2.312-1	7.790-1	5.763-1	1.714-4	4
1.307-9	1.214-0	1.216-0	2.737-1	1.130-1	1.607-1	5.415-1	4.720-1	1.519-4	4
1.307-9	1.896-0	1.901-0	1.752-1	1.047-1	7.054-0	2.377-1	3.237-1	1.051-4	4
1.307-9	5.016-1	5.020-1	6.623-1	1.268-1	5.361-1	1.807-2	6.508-1	1.051-4	4
1.307-9	3.812-1	3.817-1	8.714-1	2.311-1	6.403-1	2.158-2	5.908-1	1.932-4	4
1.307-9	5.973-1	5.980-1	5.961-1	1.879-1	4.093-1	1.376-2	5.506-1	1.821-4	4
1.307-9	4.263-1	4.267-1	7.793-1	1.434-1	6.359-1	2.143-2	6.561-1	2.183-4	4
1.307-9	5.180-1	5.184-1	6.413-1	1.294-1	5.119-1	1.725-2	6.418-1	2.148-4	4
1.307-9	5.341-1	5.345-1	6.221-1	1.317-1	4.903-1	1.652-2	6.337-1	2.136-4	4
1.307-9	9.602-1	9.615-1	3.460-1	1.129-1	2.331-1	7.655-1	5.417-1	2.136-4	4
1.307-9	7.180-1	7.187-1	4.627-1	1.154-1	3.473-1	1.170-2	6.034-1	2.074-4	4
1.307-9	4.340-1	4.343-1	7.654-1	1.281-1	6.374-1	2.148-2	6.695-1	2.310-4	4
1.307-9	1.504-1	1.506-1	2.209-1	8.075-0	1.402-1	4.724-1	5.102-1	1.768-4	4
1.307-9	1.119-1	1.121-1	2.969-1	1.041-1	1.928-1	6.498-1	5.222-1	1.842-4	4
1.307-9	8.343-1	8.363-1	3.982-1	2.363-1	1.679-1	5.658-1	3.390-1	1.207-4	4
1.307-9	1.705-1	1.705-1	1.952-1	7.217-0	1.230-1	4.146-1	5.067-1	1.207-4	4
1.307-9	4.459-1	4.463-1	7.467-0	5.454-0	2.013-0	6.785-0	2.168-1	7.873-5	4
1.307-9	3.590-1	3.606-1	9.234-0	6.357-0	2.877-0	9.684-0	2.505-1	9.164-5	4
1.307-9	3.742-1	3.754-1	8.679-0	6.656-0	2.222-0	7.487-0	2.012-1	7.461-5	4
1.307-9	2.224-1	2.230-1	1.494-1	9.171-0	5.768-0	1.844-1	3.104-1	1.158-4	4
1.307-9	2.711-1	1.226-1	1.226-1	1.540-1	1.072-2	3.614-2	7.031-1	2.519-4	4
1.307-9	4.993-1	1.998-1	6.653-1	1.307-1	5.346-1	1.802-2	6.460-1	2.519-4	4
1.307-9	1.184-1	1.186-1	2.805-1	1.077-1	1.728-1	5.822-1	4.952-1	1.682-4	4
1.307-9	1.993-1	1.996-1	1.667-1	6.442-0	1.023-1	3.447-1	4.933-1	1.883-4	4

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ENDL 175 Group Neutron Constants

64-Gd-Nat

ATOMIC WEIGHT 1.5725 * 2		DENSITY 7.8600 * 0 GRAMS/CC									
ENERGY MEV	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARNs)						ENERG. DEPOSIT (MEV)	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.		TOTAL	LOCAL
9.108-5	1.859-0	1.863-0	1.787-1	9.933-0	9.933-0	0	0	3.010-1	4.020-0	1.562-4	
9.386-5	1.298-0	1.290-0	1.257-0	1.056-1	1.523-1			5.133-1	4.745-0	1.860-4	
9.666-5	9.462-1	9.475-1	3.511-1	1.139-1	2.372-1			7.934-1	5.435-0	2.137-4	
9.811-5	6.755-1	6.760-1	4.919-1	1.187-1	3.732-1			1.258-2	6.100-0	2.425-4	
1.025-4	7.854-1	7.864-1	4.230-1	1.337-1	2.893-1			9.749-1	5.498-0	2.222-4	
1.099-4	6.234-1	6.242-1	5.329-1	1.625-1	3.704-1			1.248-2	5.588-0	2.308-4	
1.176-4	5.408-1	5.418-1	4.143-1	2.468-1	3.675-1			1.239-2	4.910-0	2.039-4	
1.256-4	4.263-1	4.277-1	4.021-1	1.610-1	2.411-1			8.125-1	4.821-0	2.098-4	
1.338-4	7.384-1	7.392-1	4.499-1	1.192-1	3.307-1			1.114-2	5.910-0	2.623-4	
1.406-4	6.822-1	6.829-1	4.870-1	1.262-1	3.608-1			1.216-2	5.957-0	2.707-4	
1.511-4	9.619-1	9.636-1	3.454-1	1.400-1	2.054-1			6.921-1	4.781-0	2.222-4	
1.601-4	9.742-1	9.759-1	3.410-1	1.400-1	2.010-1			6.775-1	4.740-0	2.268-4	
1.694-4	8.825-1	8.834-1	4.857-1	1.400-1	3.408-1			1.169-2	5.728-0	2.803-4	
1.789-4	8.538-1	8.551-1	3.891-1	1.400-1	2.491-1			8.398-1	5.148-0	2.574-4	
1.887-4	7.965-1	7.977-1	4.171-1	1.399-1	2.771-1			9.240-1	5.343-0	2.747-4	
1.988-4	6.481-1	6.488-1	5.126-1	1.399-1	3.727-1			1.256-2	5.846-0	3.073-4	
2.091-4	8.543-1	8.557-1	3.889-1	1.399-1	2.490-1			8.391-1	5.148-0	2.931-4	
2.741-4	1.120-0	1.123-0	2.965-0	1.398-1	1.567-1			5.263-1	4.250-0	2.752-4	
3.267-4	9.317-1	9.332-1	3.566-1	1.397-1	2.169-1			7.309-1	4.890-0	3.484-4	
3.811-4	1.084-0	1.087-0	3.063-0	1.396-1	1.568-1			5.620-1	4.377-0	3.514-4	
4.704-4	1.056-0	1.058-0	3.142-0	1.395-1	1.751-1			5.900-1	4.475-0	3.926-4	
4.991-4	1.177-0	1.179-0	2.823-0	1.394-1	1.428-1			4.814-1	4.069-0	3.802-4	
5.658-4	1.293-0	1.297-0	2.384-0	1.393-1	9.910-0			3.340-1	3.342-0	3.368-4	
6.042-4	1.478-0	1.482-0	2.248-0	1.393-1	8.552-0			2.882-1	3.059-0	3.226-4	
6.367-4	1.326-0	1.329-0	2.506-0	1.392-1	1.114-1			2.755-1	3.574-0	4.011-4	
7.156-4	1.269-0	1.272-0	2.618-0	1.391-1	1.227-1			4.136-1	3.76-0	4.683-4	
8.322-4	1.283-0	1.286-0	2.588-0	1.389-1	1.199-1			4.034-1	3.726-0	5.103-4	
9.177-4	1.353-0	1.356-0	2.456-0	1.387-1	1.068-1			3.601-1	3.499-0	5.284-4	
1.058-3	1.458-0	1.462-0	2.279-0	1.384-1	8.944-0			3.015-1	3.156-0	5.563-4	
1.307-3	1.493-0	1.497-0	2.225-0	1.380-1	8.444-0			2.846-1	3.052-0	6.380-4	
1.581-3	1.566-0	1.569-0	2.135-0	1.376-1	7.592-0			2.559-1	2.860-0	7.026-4	
1.882-3	1.699-0	1.704-0	1.955-0	1.371-1	5.837-0			1.968-1	2.401-0	6.878-4	
2.208-3	1.780-0	1.785-0	1.866-0	1.356-1	5.000-0			1.686-1	2.155-0	7.159-4	
2.561-3	1.790-0	1.795-0	1.856-0	1.360-1	4.953-0			1.470-1	2.147-0	8.132-4	
2.940-3	1.849-0	1.855-0	1.797-0	1.354-1	4.424-0			1.492-1	1.290-0	8.517-4	
3.345-3	1.915-0	1.921-0	1.735-0	1.348-1	3.871-0			1.305-1	1.794-0	8.722-4	
3.777-3	1.947-0	1.953-0	1.707-0	1.341-1	3.653-0			1.232-1	1.722-0	9.384-4	
4.234-3	1.989-0	1.995-0	1.671-0	1.326-1	3.444-0			1.162-1	1.659-0	1.116-3	
5.763-3	2.091-0	2.099-0	1.589-0	1.301-1	2.875-0			6.697-0	1.456-0	1.299-3	
7.527-3	2.203-0	2.211-0	1.508-0	1.267-1	2.407-0			7.453-0	1.285-0	1.533-3	
1.025-2	2.361-0	2.370-0	1.407-0	1.210-1	1.972-0			1.472-0	1.129-0	1.922-3	
1.511-2	2.573-0	2.582-0	1.291-0	1.130-1	1.614-0			1.716-0	1.007-0	2.451-3	
2.091-2	2.809-0	2.822-0	1.183-0	1.045-1	1.378-0			1.976-0	9.398-1	3.025-3	
2.846-2	3.063-0	3.075-0	1.085-0	9.634-0	1.211-1	8.202-4	2.244-0	9.901-1	9.012-1	3.629-3	
3.267-2	3.199-0	3.212-0	1.038-0	9.317-0	1.058-1	8.714-4	2.543-0	8.236-1	4.081-3		
3.943-2	3.304-0	3.317-0	1.005-0	9.101-0	1.099-1	8.999-4	2.972-0	7.509-1	4.502-3		
4.704-2	3.432-0	3.445-0	9.690-0	8.177-1	1.190-1	3.093-0	6.843-0	6.843-0	5.005-3		
5.761-2	3.595-0	3.609-0	9.242-0	8.465-0	7.088-1	4.736-2	2.844-0	6.225-1	5.612-3		
7.002-2	3.769-0	3.824-0	8.768-0	8.105-0	5.057-1	5.569-2	2.534-0	5.628-1	6.171-3		
8.322-2	3.973-0	3.989-0	8.361-0	7.779-0	5.192-1	6.278-2	2.185-0	5.065-1	6.697-3		
9.891-2	4.140-0	4.157-0	8.024-0	7.526-0	4.274-1	7.441-2	1.888-0	4.323-1	7.365-3		
1.307-1	4.297-0	4.311-0	7.738-0	7.318-0	3.224-1	9.697-2	2.1663-0	3.445-1	9.314-3		
1.820-1	4.425-0	4.442-0	7.541-0	7.129-0	2.705-1	1.417-1	2.452-0	2.987-1	9.299-3		
2.07-1	4.455-0	4.473-0	7.458-0	7.056-0	2.450-1	1.866-1	1.499-0	2.772-1	1.004-2		
2.417-1	4.496-0	4.514-0	7.389-0	6.931-0	2.235-1	2.343-1	1.570-0	2.583-1	1.080-2		
2.710-1	4.529-0	4.547-0	7.235-0	6.853-0	2.090-1	2.737-1	1.637-0	2.459-1	1.141-2		
2.940-1	4.565-0	4.573-0	7.294-0	6.775-0	1.934-1	3.258-1	1.748-0	2.325-1	1.206-2		
3.345-1	4.566-0	4.584-0	7.276-0	6.699-0	1.757-1	4.010-1	1.938-0	2.171-1	1.282-2		
3.777-1	4.576-0	4.593-0	7.261-0	6.619-0	1.605-1	4.809-1	2.152-0	2.048-1	1.359-2		
4.234-1	4.587-0	4.605-0	7.243-0	6.498-0	1.427-1	5.621-1	2.465-0	1.928-1	1.470-2		
5.123-1	4.600-0	4.652-0	7.223-0	6.310-0	1.223-1	7.903-1	3.239-0	1.835-1	1.598-2		
6.325-1	4.611-0	5.025-0	7.206-0	6.093-0	1.055-1	1.007-0	3.653-0	1.830-1	1.705-2		

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64-Gd-Nat

ATOMIC WEIGHT 1.5725 ± 2			DENSITY 7.8600 ± 0 GRAMS/CC									
ENERGY	MF (CM)		CROSS SECTION (BARNS)							ENERGY DEPOSIT (MEV)		
MEV	TOTAL TRANSPORT		TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL			
7.527-1	4.622+0	5.429+0	7.188+0	5.876+0	9.280+0	1.220+0	4.327+0	1.904+0	1.790+0	2	1.790+0	2
8.874-1	4.422+0	5.928+0	7.157+0	5.689+0	8.245+0	1.405+0	4.934+0	2.036+0	1.960+0	2	1.960+0	2
1.025+0	4.665+0	5.424+0	7.121+0	5.450+0	7.387+0	1.597+0	5.433+0	2.252+0	1.972+0	2	1.972+0	2
1.176+0	4.703+0	6.454+0	7.064+0	5.214+0	6.657+0	1.783+0	5.946+0	2.549+0	2.119+0	2	2.119+0	2
1.330+0	4.738+0	6.484+0	7.012+0	4.990+0	6.056+0	1.961+0	6.505+0	2.910+0	2.268+0	2	2.268+0	2
1.511+0	4.753+0	6.513+0	6.990+0	4.848+0	5.531+0	2.086+0	6.828+0	3.280+0	2.416+0	2	2.416+0	2
1.594+0	4.772+0	6.548+0	6.961+0	4.702+0	5.079+0	2.208+0	7.233+0	3.715+0	2.566+0	2	2.566+0	2
1.887+0	4.847+0	6.665+0	6.853+0	4.511+0	4.684+0	2.296+0	7.491+0	4.215+0	2.732+0	2	2.732+0	2
2.091+0	4.940+0	6.812+0	6.725+0	4.302+0	4.338+0	2.379+0	7.659+0	4.624+0	2.910+0	2	2.910+0	2
2.305+0	5.038+0	6.949+0	6.594+0	4.102+0	4.031+0	2.451+0	7.818+0	5.500+0	3.087+0	2	3.087+0	2
2.570+0	5.137+0	7.103+0	6.468+0	3.920+0	3.770+0	2.509+0	7.873+0	6.217+0	3.261+0	2	3.261+0	2
2.741+0	5.250+0	7.260+0	6.328+0	3.724+0	3.527+0	2.569+0	7.859+0	7.077+0	3.449+0	2	3.449+0	2
3.011+0	5.385+0	7.481+0	6.170+0	3.541+0	3.298+0	2.596+0	7.864+0	8.018+0	3.653+0	2	3.653+0	2
3.267+0	5.527+0	7.727+0	6.011+0	3.367+0	3.100+0	2.613+0	7.885+0	9.012+0	3.852+0	2	3.852+0	2
3.533+0	5.683+0	7.936+0	5.866+0	3.214+0	2.921+0	2.623+0	7.752+0	1.008+0	4.031+0	2	4.031+0	2
3.811+0	5.793+0	8.184+0	5.735+0	3.080+0	2.788+0	2.627+0	7.529+0	1.117+0	4.242+0	2	4.242+0	2
4.065+0	5.941+0	8.402+0	5.592+0	2.941+0	2.620+0	2.625+0	7.275+0	1.240+0	4.451+0	2	4.451+0	2
4.396+0	6.110+0	8.674+0	5.437+0	2.800+0	2.477+0	2.512+0	7.026+0	1.380+0	4.683+0	2	4.683+0	2
4.704+0	6.274+0	8.927+0	5.295+0	2.658+0	2.360+0	2.604+0	6.891+0	1.520+0	4.901+0	2	4.901+0	2
4.991+0	6.404+0	9.164+0	5.188+0	2.583+0	2.245+0	2.582+0	6.775+0	1.661+0	5.108+0	2	5.108+0	2
5.353+0	6.430+0	9.415+0	5.119+0	2.549+0	2.138+0	2.548+0	6.650+0	1.792+0	5.297+0	2	5.297+0	2
5.658+0	6.582+0	9.660+0	5.047+0	2.515+0	2.037+0	2.512+0	6.690+0	1.931+0	5.477+0	2	5.477+0	2
6.042+0	6.679+0	9.949+0	4.974+0	2.462+0	1.935+0	2.475+0	6.729+0	2.080+0	5.649+0	2	5.649+0	2
6.367+0	6.762+0	1.017+0	4.920+0	2.445+0	1.835+0	2.457+0	6.809+0	2.189+0	5.781+0	2	5.781+0	2
6.737+0	6.885+0	1.050+0	4.839+0	2.408+0	1.731+0	2.414+0	6.973+0	2.137+0	5.944+0	2	5.944+0	2
7.158+0	6.948+0	1.081+0	4.781+0	2.400+0	1.634+0	2.365+0	7.051+0	1.832+0	6.120+0	2	6.120+0	2
7.548+0	7.005+0	1.122+0	4.743+0	2.400+0	1.556+0	2.327+0	7.021+0	1.545+0	6.285+0	2	6.285+0	2
7.910+0	7.017+0	1.116+0	4.735+0	2.419+0	1.480+0	2.301+0	6.998+0	1.357+0	6.428+0	2	6.428+0	2
8.322+0	6.925+0	1.117+0	4.797+0	2.483+0	1.406+0	2.300+0	7.090+0	1.299+0	6.539+0	2	6.539+0	2
8.787+0	6.826+0	1.120+0	4.866+0	2.553+0	1.337+0	2.299+0	7.103+0	1.250+0	6.632+0	2	6.632+0	2
9.177+0	6.673+0	1.119+0	4.979+0	2.676+0	1.277+0	2.290+0	6.942+0	1.294+0	6.686+0	2	6.686+0	2
9.665+0	6.506+0	1.121+0	5.106+0	2.816+0	1.214+0	2.278+0	6.899+0	1.355+0	6.725+0	2	6.725+0	2
1.012+0	6.380+0	1.126+0	5.199+0	2.920+0	1.162+0	2.267+0	6.933+0	1.419+0	6.774+0	2	6.774+0	2
1.056+0	6.296+0	1.132+0	5.276+0	3.010+0	1.112+0	2.255+0	6.909+0	1.482+0	6.816+0	2	6.816+0	2
1.101+0	6.230+0	1.141+0	5.332+0	3.078+0	1.056+0	2.244+0	6.775+0	1.595+0	6.884+0	2	6.884+0	2
1.155+0	6.180+0	1.155+0	5.369+0	3.127+0	1.021+0	2.231+0	6.602+0	1.633+0	6.963+0	2	6.963+0	2
1.199+0	6.148+0	1.167+0	5.403+0	3.176+0	9.154+0	2.220+0	6.517+0	1.704+0	6.899+0	2	6.899+0	2
1.250+0	6.105+0	1.182+0	5.442+0	3.228+0	7.544+0	2.206+0	6.475+0	1.778+0	6.671+0	2	6.671+0	2
1.307+0	6.086+0	1.202+0	5.450+0	3.250+0	6.297+0	2.193+0	6.447+0	1.856+0	6.512+0	2	6.512+0	2
1.354+0	6.126+0	1.226+0	5.421+0	3.250+0	5.512+0	2.166+0	6.216+0	1.885+0	6.420+0	2	6.420+0	2
1.386+0	6.163+0	1.251+0	5.390+0	3.250+0	5.002+0	2.135+0	5.974+0	1.820+0	6.357+0	2	6.357+0	2
1.413+0	6.172+0	1.263+0	5.383+0	3.250+0	4.591+0	2.128+0	6.375+0	1.737+0	6.318+0	2	6.318+0	2
1.441+0	6.177+0	1.273+0	5.379+0	3.250+0	4.211+0	2.124+0	6.776+0	1.648+0	6.286+0	2	6.286+0	2
1.468+0	6.194+0	1.280+0	5.363+0	3.248+0	3.741+0	2.111+0	6.811+0	1.559+0	6.249+0	2	6.249+0	2
1.519+0	6.348+0	1.355+0	5.233+0	3.226+0	3.195+0	2.004+0	6.575+0	1.526+0	6.191+0	2	6.191+0	2
1.575+0	6.505+0	1.425+0	5.107+0	3.198+0	2.711+0	1.906+0	6.417+0	1.537+0	6.156+0	2	6.156+0	2
1.633+0	6.427+0	1.381+0	5.169+0	3.169+0	2.307+0	1.938+0	6.716+0	1.718+0	6.289+0	2	6.289+0	2
1.692+0	6.391+0	1.357+0	5.198+0	3.139+0	1.969+0	2.057+0	6.900+0	1.908+0	6.417+0	2	6.417+0	2
1.752+0	6.471+0	1.304+0	5.134+0	3.109+0	1.686+0	2.024+0	6.889+0	1.946+0	6.484+0	2	6.484+0	2
1.813+0	6.555+0	1.413+0	5.068+0	3.078+0	1.447+0	1.989+0	6.948+0	1.879+0	6.561+0	2	6.561+0	2
1.875+0	6.687+0	1.455+0	4.968+0	3.031+0	1.160+0	1.935+0	6.942+0	1.779+0	6.689+0	2	6.689+0	2
2.000+0												
RESONANCE INTEGRALS			7.201+0	2.1.988+0	2.5.133+0	2.7.962+0	1.750+0	3				
MAXWELLIAN AVERAGES			3.877+0	4.1.200+0	1.3.876+0	4	1.306+0	5				
1/E AVERAGES			4.114+0	1.1.136+0	1.2.933+0	1.4.549+0	1.9.998+0	1				
FISSION AVERAGES			6.716+0	4.8.806+0	8.580+0	2.1.825+0	5.911+0	0				
FUSION AVERAGES			5.397+0	0.3.250+0	4.949+0	3.2.142+0	6.310+0	0				

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ENDL 175 Group Neutron Constants

67-Ho-165

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ENDL 175 Group Neutron Constants

67-Ho-165

ATOMIC WEIGHT		1.6493* 2		DENSITY				8.7900* 0 GRAMS/CC	
ENERGY		MFP (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	
									LOCAL
1.307- 9	1.190- 1	1.190- 1	2.617+ 2	8.000+ 0	2.537+ 2	6.724+ 2	6.049+ 0	1.218- 4	
5.227- 9	2.309- 1	2.309- 1	1.350+ 2	8.000+ 0	1.270+ 2	5.364+ 2	5.870+ 0	1.182- 4	
2.091- 8	3.363- 1	3.365- 1	9.261+ 1	8.000+ 0	8.464+ 1	2.243+ 2	5.701+ 0	1.148- 4	
3.267- 8	3.914- 1	3.915- 1	7.561+ 1	8.000+ 0	7.161+ 1	1.898+ 2	5.613+ 0	1.130- 4	
4.704- 8	5.047- 1	5.049- 1	6.174+ 1	8.000+ 0	5.374+ 1	1.424+ 2	5.431+ 0	1.094- 4	
6.322- 8	6.539- 1	6.543- 1	4.765+ 1	8.000+ 0	3.965+ 1	1.051+ 2	5.192+ 0	1.046- 4	
1.307- 7	7.679- 1	7.686- 1	4.057+ 1	8.000+ 0	3.257+ 1	9.632+ 1	5.010+ 0	1.010- 4	
1.682- 7	9.021- 1	9.030- 1	3.454+ 1	8.000+ 0	2.654+ 1	7.033+ 1	4.795+ 0	9.671- 5	
2.561- 7	1.005+ 0	1.006+ 0	3.101+ 1	8.000+ 0	2.301+ 1	6.099+ 1	4.630+ 0	9.345- 5	
3.345- 7	1.132+ 0	1.133+ 0	2.752+ 1	8.000+ 0	1.952+ 1	5.173+ 1	4.426+ 0	8.939- 5	
4.234- 7	1.217+ 0	1.219+ 0	2.560+ 1	8.000+ 0	1.760+ 1	4.663+ 1	4.290+ 0	8.669- 5	
5.123- 7	1.353+ 0	1.355+ 0	2.303+ 1	8.000+ 0	1.503+ 1	3.983+ 1	4.073+ 0	8.241- 5	
7.527- 7	1.581+ 0	1.583+ 0	1.971+ 1	7.807+ 0	1.190+ 1	3.154+ 1	3.768+ 0	7.645- 5	
1.176- 6	1.761+ 0	1.764+ 0	1.769+ 1	7.050+ 0	1.064+ 1	2.820+ 1	3.753+ 0	7.638- 5	
1.511- 6	1.812+ 0	1.815+ 0	1.719+ 1	6.618+ 0	1.058+ 1	2.802+ 1	3.838+ 0	7.839- 5	
2.091- 6	1.434+ 0	1.436+ 0	2.173+ 1	6.866+ 0	1.487+ 1	3.939+ 1	4.268+ 0	8.781- 5	
2.741- 6	4.271+ 1	4.277+ 1	7.284+ 1	2.234+ 1	5.070+ 1	1.344+ 2	4.337+ 0	8.961- 5	
3.533- 6	3.221+ 2	3.232+ 2	9.672+ 2	7.727+ 2	1.945+ 2	5.154+ 2	1.255+ 0	2.611- 5	
4.704- 6	1.085+ 0	1.088+ 0	2.869+ 1	9.741+ 0	1.094+ 1	5.020+ 1	4.121+ 0	8.635- 5	
5.658- 6	1.473+ 0	1.476+ 0	2.115+ 1	9.642+ 0	1.151+ 1	3.049+ 1	3.395+ 0	7.173- 5	
6.737- 6	2.230+ 0	2.232+ 0	1.357+ 1	3.665+ 0	1.031+ 1	2.732+ 1	4.603+ 0	9.824- 5	
8.322- 6	2.386+ 0	2.388+ 0	1.306+ 1	1.998+ 0	1.106+ 1	2.931+ 1	5.285+ 0	1.140- 4	
9.620- 6	1.820+ 0	1.822+ 0	1.712+ 1	3.700+ 0	1.342+ 1	3.556+ 1	4.891+ 0	1.056- 4	
1.101- 5	5.684+ 2	5.705+ 2	5.482+ 2	4.935+ 2	5.465+ 2	1.448+ 2	6.221+ 1	1.390- 5	
1.307- 5	9.014+ 2	1.048+ 2	3.457+ 2	3.216+ 2	2.401+ 1	6.363+ 1	4.334+ 0	9.805- 6	
1.468- 5	3.584+ 0	3.588+ 0	6.693+ 0	2.300+ 0	6.392+ 0	1.694+ 1	4.589+ 0	1.036- 4	
1.581- 5	4.224+ 1	4.239+ 1	7.377+ 1	6.715+ 1	6.624+ 1	1.755+ 1	5.603+ 1	1.296- 5	
1.758- 5	9.723+ 1	9.738+ 1	3.205+ 1	1.221+ 1	1.984+ 1	5.258+ 1	3.863+ 0	8.899- 5	
1.882- 5	6.975+ 1	6.994+ 1	4.467+ 1	2.881+ 1	1.586+ 1	4.204+ 1	2.216+ 0	5.176- 5	
2.075- 5	2.634+ 0	2.645+ 0	1.179+ 1	2.694+ 0	9.095+ 0	2.410+ 1	4.814+ 0	1.136- 4	
2.277- 5	3.061+ 0	3.064+ 0	1.018+ 1	2.006+ 0	8.172+ 0	2.166+ 1	5.010+ 0	1.197- 4	
2.417- 5	3.269+ 0	3.271+ 0	9.531+ 0	1.493+ 0	8.039+ 0	2.130+ 1	5.262+ 0	1.269- 4	
2.561- 5	3.482+ 0	3.483+ 0	8.949+ 0	1.036+ 0	7.912+ 0	2.097+ 1	5.517+ 0	1.343- 4	
2.710- 5	3.416+ 0	3.418+ 0	9.120+ 0	1.337+ 0	7.783+ 0	2.063+ 1	5.325+ 0	1.309- 4	
2.862- 5	3.318+ 0	3.320+ 0	9.392+ 0	1.707+ 0	7.685+ 0	2.036+ 1	5.106+ 0	1.265- 4	
2.940- 5	3.222+ 0	3.225+ 0	9.670+ 0	1.974+ 0	7.696+ 0	2.039+ 1	4.965+ 0	1.240- 4	
3.099- 5	3.071+ 0	3.073+ 0	1.015+ 1	1.924+ 0	8.222+ 0	2.179+ 1	5.057+ 0	1.276- 4	
3.345- 5	5.435+ 1	5.453+ 1	5.733+ 1	4.507+ 1	1.225+ 1	3.247+ 1	1.334+ 0	3.463- 5	
3.601- 5	1.578+ 1	1.583+ 1	1.974+ 2	1.515+ 2	4.595+ 1	1.218+ 2	1.452+ 0	3.826- 5	
3.866- 5	6.923+ 2	6.950+ 2	4.500+ 2	4.158+ 2	2.348+ 1	9.111+ 1	4.767+ 1	1.304- 5	
4.048- 5	8.970+ 2	9.006+ 2	3.473+ 2	3.353+ 2	1.206+ 1	3.197+ 2	2.167+ 1	6.272- 6	
4.234- 5	1.884+ 1	1.892+ 1	1.653+ 2	1.548+ 2	1.050+ 1	2.783+ 2	3.563+ 1	1.117- 5	
4.329- 5	3.338+ 1	3.350+ 1	9.334+ 1	8.328+ 1	1.012+ 1	2.681+ 2	6.763+ 1	1.892- 5	
4.619- 5	1.292+ 1	1.297+ 1	2.411+ 2	2.305+ 2	1.044+ 1	2.766+ 2	2.702+ 1	7.989- 6	
4.717- 5	8.526+ 2	8.559+ 2	3.655+ 2	5.545+ 2	1.092+ 1	2.893+ 1	1.864+ 1	5.749- 6	
4.918- 5	1.536+ 1	1.542+ 1	2.028+ 2	1.841+ 2	1.868+ 1	4.951+ 1	5.748+ 1	1.674- 5	
5.123- 5	6.036+ 2	6.059+ 2	5.162+ 2	4.911+ 2	2.514+ 1	6.663+ 1	3.040+ 1	9.248- 6	
5.332- 5	8.295+ 2	8.328+ 2	3.756+ 2	3.627+ 2	1.288+ 1	3.414+ 2	2.141+ 1	6.815- 6	
5.694- 5	1.406+ 1	1.411+ 1	2.216+ 2	2.110+ 2	1.066+ 1	2.825+ 2	3.001+ 1	9.428- 6	
5.763- 5	3.981+ 1	3.995+ 1	7.927+ 1	6.744+ 1	1.083+ 1	2.870+ 2	6.834+ 1	2.615- 5	
6.097- 5	3.506+ 1	3.518+ 1	8.888+ 1	7.783+ 1	1.105+ 1	2.927+ 2	7.756+ 1	2.395- 5	
6.325- 5	1.915+ 1	1.922+ 1	1.717+ 2	1.605+ 2	1.122+ 1	2.974+ 2	4.079+ 1	1.313- 5	
6.557- 5	1.328+ 1	1.333+ 1	2.346+ 2	2.233+ 2	1.136+ 1	3.010+ 2	3.021+ 1	1.003- 5	
6.674- 5	2.184+ 1	2.192+ 1	1.427+ 2	1.281+ 2	1.456+ 1	3.860+ 2	6.370+ 1	2.054- 5	
7.034- 5	3.908+ 1	3.921+ 1	7.972+ 1	6.390+ 1	1.582+ 1	4.192+ 2	1.238+ 0	3.960- 5	
7.156- 5	2.063+ 1	2.071+ 1	1.510+ 2	1.377+ 2	1.328+ 1	3.519+ 2	5.486+ 1	1.826- 5	
7.527- 5	7.698+ 1	7.721+ 1	4.047+ 2	2.943+ 2	1.105+ 1	2.927+ 2	1.703+ 0	5.571- 5	
7.780- 5	2.026+ 0	2.029+ 0	1.538+ 1	5.271+ 0	1.011+ 1	2.679+ 2	4.101+ 0	1.341- 4	
7.908- 5	1.618+ 0	1.621+ 0	1.925+ 1	8.744+ 0	1.051+ 1	2.785+ 2	3.406+ 0	1.126- 4	
8.167- 5	1.159+ 0	1.162+ 0	2.689+ 1	1.582+ 1	1.107+ 1	2.933+ 2	2.569+ 0	8.627- 5	
8.431- 5	1.521+ 1	1.527+ 1	2.048+ 2	1.910+ 2	1.384+ 1	3.667+ 2	4.216+ 1	1.527- 5	
8.634- 5	4.490+ 1	4.503+ 1	6.939+ 1	5.017+ 1	1.922+ 1	5.094+ 2	1.728+ 0	6.099- 5	

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ENDL 175 Group Neutron Constants

67-Ho-165

ATOMIC WEIGHT		1.64933 ± 2		DENSITY		8.7900 ± 0 GRAMS/CC			
ENERGY		MFP (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	2.257-1	2.265-1	1.380-2	2.177-2	2.092-2		5.545-1	9.460-1	3.393-5
9.386-5	1.212-1	1.217-1	2.571-2	2.358-2	2.129-2		5.641-1	5.187-1	1.930-5
9.668-5	1.525-1	1.529-1	2.045-2	2.836-2	2.093-1		5.548-1	6.387-1	2.382-5
9.811-5	4.451-1	4.463-1	7.001-1	9.996-1	2.011-1		5.329-1	1.792-1	6.596-5
1.025-4	2.848-1	2.850-1	1.094-2	9.302-1	1.638-1		4.342-1	9.345-1	3.558-5
1.099-4	8.006-1	8.028-1	3.892-1	2.648-1	1.244-1		3.297-1	1.995-1	7.724-5
1.176-4	3.402-1	3.412-1	9.160-1	6.894-1	2.266-1		6.005-1	1.544-1	6.220-5
1.256-4	2.022-1	2.029-1	1.541-2	1.255-2	2.860-1		7.579-1	1.158-1	4.852-5
1.338-4	6.694-1	6.705-1	4.654-1	1.859-1	2.796-1		7.409-1	3.748-1	1.540-4
1.406-4	9.110-1	9.117-1	3.420-1	6.933-1	2.722-1		7.213-1	4.966-1	2.157-4
1.511-4	9.294-1	9.302-1	3.352-1	7.137-1	2.639-1		6.992-1	4.912-1	2.210-4
1.601-4	9.474-1	9.483-1	3.289-1	7.282-1	2.560-1		6.785-1	4.668-1	2.257-4
1.694-4	9.667-1	9.676-1	3.223-1	7.432-1	2.480-1		6.572-1	4.801-1	2.303-4
1.789-4	9.874-1	9.883-1	3.156-1	7.585-1	2.397-1		6.353-1	4.740-1	2.347-4
1.887-4	1.010-1	1.011-1	3.086-1	7.742-1	2.312-1		6.127-1	4.675-1	2.399-4
1.988-4	6.704-1	6.709-1	4.647-1	7.904-1	3.857-1		1.022-2	5.179-1	2.728-4
2.091-4	9.221-1	9.230-1	3.379-1	8.255-1	2.553-1		6.787-1	4.716-1	2.775-4
2.741-4	7.623-1	7.634-1	4.087-1	1.434-1	2.653-1		7.032-1	4.051-1	2.759-4
3.267-4	7.402-1	7.411-1	4.209-1	1.234-1	2.976-1		7.886-1	4.411-1	3.365-4
3.811-4	9.957-1	9.957-1	3.281-1	8.470-1	2.434-1		6.449-1	4.629-1	4.053-4
4.704-4	1.836-1	1.839-1	1.697-1	6.247-1	1.073-1		2.842-1	3.943-1	3.891-4
4.991-4	9.810-1	9.817-1	3.176-1	5.492-1	2.627-1		6.961-1	5.161-1	5.429-4
5.658-4	9.464-1	9.475-1	3.292-1	7.051-1	2.397-1		6.352-1	4.544-1	5.167-4
6.042-4	1.659-1	1.662-1	1.878-1	9.603-1	9.180-1		2.433-1	3.050-1	3.667-4
6.357-4	1.529-1	1.531-1	2.039-1	7.593-1	1.279-1		3.399-1	3.316-1	5.060-4
7.156-4	1.401-1	1.403-1	2.223-1	7.859-1	1.438-1		3.810-1	4.035-1	5.805-4
8.322-4	1.572-1	1.574-1	1.992-1	8.280-1	1.155-1		3.060-1	3.634-1	5.845-4
9.177-4	1.666-1	1.669-1	1.870-1	7.952-1	1.075-1		2.850-1	3.588-1	6.408-4
1.058-3	1.564-1	1.566-1	1.992-1	8.070-1	1.185-1		3.142-1	3.719-1	7.739-4
1.307-3	1.833-1	1.836-1	1.700-1	8.097-1	8.903-1		2.360-1	3.269-1	8.260-4
1.581-3	1.773-1	1.777-1	1.757-1	8.132-1	9.439-1		2.502-1	3.353-1	1.001-3
1.892-3	1.937-1	1.941-1	1.608-1	8.240-1	7.844-1		2.079-1	3.044-1	1.065-3
2.208-3	2.206-1	2.211-1	1.412-1	7.565-1	6.557-1		1.738-1	2.898-1	1.172-3
2.561-3	2.329-1	2.334-1	1.338-1	6.868-1	6.511-1		1.726-1	3.038-1	1.406-3
2.940-3	2.488-1	2.494-1	1.252-1	6.705-1	5.816-1		1.542-1	2.200-1	1.527-3
3.345-3	2.564-1	2.570-1	1.215-1	6.864-1	5.287-1		1.402-1	2.716-1	1.615-3
3.777-3	2.671-1	2.678-1	1.166-1	7.159-1	4.506-1		1.195-1	2.412-1	1.615-3
4.234-3	2.827-1	2.834-1	1.166-1	7.284-1	4.577-1		1.214-1	2.410-1	2.004-3
4.763-3	2.845-1	2.852-1	1.095-1	7.405-1	3.594-1		9.414-1	2.024-1	2.236-3
5.257-3	2.974-1	2.983-1	1.048-1	7.631-1	2.845-1		7.518-1	1.697-1	2.502-3
1.025-2	2.756-1	2.765-1	1.130-1	8.934-1	2.370-1		6.788-1	1.311-1	2.766-3
1.511-2	2.833-1	2.842-1	1.100-1	9.020-1	1.980-1		6.386-1	1.126-1	3.412-3
2.091-2	2.909-1	2.919-1	1.071-1	8.956-1	1.755-1		5.958-1	1.026-1	4.107-3
2.646-2	2.972-1	2.982-1	1.048-1	8.917-1	1.567-1		5.514-1	9.374-1	4.767-3
3.267-2	2.970-1	2.980-1	1.049-1	9.092-1	1.410-1		5.022-1	8.937-1	5.207-3
3.953-2	3.032-1	3.043-1	1.027-1	9.010-1	1.264-1		4.480-1	1.736-1	5.760-3
4.704-2	3.113-1	3.124-1	1.001-1	8.886-1	1.124-1		3.933-1	7.072-1	6.404-3
5.761-2	3.180-1	3.191-1	9.797-1	8.793-1	1.004-1		3.615-1	6.469-1	7.198-3
7.002-2	3.270-1	3.279-1	9.596-1	8.694-1	9.020-1		3.283-1	5.946-1	7.996-3
8.322-2	3.316-1	3.328-1	9.397-1	8.582-1	8.147-1	9.273-4	2.909-1	5.999-1	8.851-3
9.891-2	3.406-1	3.419-1	9.146-1	8.398-1	7.109-1	3.770-2	2.551-1	4.955-1	1.012-2
1.307-1	3.547-1	3.560-1	8.785-1	8.076-1	5.921-1	1.168-1	2.197-1	4.341-1	1.218-2
1.820-1	3.656-1	3.660-1	8.499-1	7.779-1	5.264-1	1.937-1	1.902-1	4.000-1	1.416-2
2.075-1	3.727-1	3.734-1	8.361-1	7.547-1	4.827-1	3.311-1	2.327-1	3.495-1	1.534-2
2.417-1	3.775-1	3.869-1	8.253-1	7.302-1	4.507-1	5.005-1	2.975-1	6.338-1	1.666-2
2.710-1	3.811-1	3.961-1	8.177-1	7.101-1	4.357-1	6.400-1	3.509-1	3.601-1	1.792-2
2.940-1	3.856-1	4.058-1	8.080-1	6.857-1	4.135-1	8.095-1	4.016-1	3.533-1	1.918-2
3.345-1	3.925-1	4.193-1	7.938-1	6.537-1	3.688-1	1.029-1	4.472-1	3.330-1	1.993-2
3.777-1	3.996-1	4.353-1	7.798-1	6.206-1	3.221-1	1.263-1	4.994-1	3.121-1	2.024-2
4.234-1	4.074-1	4.481-1	7.699-1	5.796-1	2.773-1	1.626-1	6.147-1	2.091-1	2.091-2
5.123-1	4.090-1	4.685-1	7.617-1	5.419-1	2.243-1	1.974-1	7.128-1	2.866-1	2.146-2
6.325-1	4.119-1	4.941-1	7.564-1	5.128-1	1.740-1	2.262-1	7.554-1	2.758-1	2.112-2

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ENDL 175 Group Neutron Constants

67-Ho-165

ATOMIC WEIGHT 1.6493 ± 2		DENSITY 9.7900 ± 0 GRAMS/CC									
ENERGY MEV	MFP (CM)		CROSS SECTION (BARN)							ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
7.527-1	4.157-0	5.225-0	7.495-0	4.903-0	1.372-1	2.454-0	7.859-0	2.762-1	1.207-2		
8.834-1	4.231-0	5.602-0	7.364-0	4.679-0	1.233-1	2.562-0	8.221-0	2.393-1	2.209-2		
1.025-0	4.283-0	5.986-0	7.274-0	4.525-0	1.092-1	2.640-0	8.324-0	3.233-1	2.310-2		
1.176-0	4.366-0	6.229-0	7.204-0	4.407-0	9.438-2	2.703-0	8.397-0	3.467-1	2.361-2		
1.339-0	4.366-0	6.488-0	7.136-0	4.282-0	8.503-2	2.770-0	8.577-0	3.048-1	2.459-2		
1.511-0	4.421-0	6.796-0	7.047-0	4.148-0	7.792-2	2.820-0	8.580-0	4.771-1	2.571-2		
1.694-0	4.492-0	7.159-0	6.936-0	4.007-0	7.039-2	2.858-0	8.927-0	4.729-1	2.697-2		
1.897-0	4.567-0	7.562-0	6.823-0	3.866-0	6.291-2	2.894-0	8.932-0	5.238-1	2.690-2		
2.091-0	4.624-0	7.850-0	6.738-0	3.781-0	5.765-2	2.900-0	8.863-0	5.805-1	2.817-2		
2.305-0	4.691-0	7.932-0	6.656-0	3.704-0	5.270-2	2.900-0	8.752-0	6.415-1	2.946-2		
2.530-0	4.760-0	8.080-0	6.546-0	3.628-0	4.577-2	2.873-0	8.539-0	6.997-1	2.961-2		
2.741-0	4.850-0	8.283-0	6.405-0	3.543-0	3.650-2	2.825-0	8.231-0	7.614-1	2.893-2		
3.011-0	4.974-0	8.489-0	6.264-0	3.451-0	2.660-2	2.786-0	8.010-0	8.311-1	2.656-2		
3.267-0	5.073-0	8.657-0	6.142-0	3.360-0	2.175-2	2.760-0	7.893-0	9.118-1	2.635-2		
3.533-0	5.179-0	8.834-0	6.016-0	3.265-0	1.799-2	2.733-0	7.652-0	1.001-1	2.637-2		
3.811-0	5.288-0	9.016-0	5.892-0	3.172-0	1.351-2	2.706-0	7.348-0	1.089-1	2.553-2		
4.069-0	5.383-0	9.155-0	5.789-0	3.092-0	1.170-2	2.695-0	7.081-0	1.190-1	2.643-2		
4.396-0	5.480-0	9.240-0	5.685-0	3.012-0	1.006-2	2.663-0	6.846-0	1.309-1	2.752-2		
4.704-0	5.573-0	9.320-0	5.591-0	2.938-0	9.631-3	2.643-0	6.727-0	1.425-1	2.930-2		
4.991-0	5.677-0	9.412-0	5.489-0	2.857-0	9.541-3	2.622-0	6.664-0	1.550-1	3.160-2		
5.353-0	5.788-0	9.506-0	5.383-0	2.774-0	9.448-3	2.600-0	6.666-0	1.705-1	3.402-2		
5.658-0	5.908-0	9.611-0	5.274-0	2.688-0	9.351-3	2.577-0	6.767-0	1.862-1	3.655-2		
6.012-0	6.013-0	9.707-0	5.182-0	2.619-0	9.253-3	2.553-0	6.892-0	2.027-1	3.897-2		
6.367-0	6.102-0	9.821-0	5.106-0	2.567-0	9.156-3	2.530-0	7.016-0	2.185-1	4.119-2		
6.737-0	6.199-0	9.945-0	5.026-0	2.512-0	9.046-3	2.505-0	7.147-0	2.366-1	4.372-2		
7.156-0	6.299-0	9.979-0	5.002-0	2.500-0	8.933-3	2.493-0	7.295-0	2.529-1	4.611-2		
7.548-0	6.298-0	1.002-1	4.995-0	2.500-0	8.828-3	2.486-0	7.453-0	2.274-1	4.927-2		
7.910-0	6.226-0	1.001-1	5.004-0	2.506-0	8.720-3	2.489-0	7.585-0	2.742-1	5.039-2		
8.222-0	6.240-0	1.011-1	4.993-0	2.528-0	8.597-3	2.457-0	7.684-0	2.270-1	5.269-2		
8.787-0	6.217-0	1.012-1	5.012-0	2.549-0	8.478-3	2.454-0	7.696-0	1.822-1	5.489-2		
9.177-0	6.150-0	1.001-1	5.066-0	2.571-0	8.356-3	2.487-0	7.928-0	1.663-1	5.710-2		
9.655-0	6.151-0	1.009-1	5.065-0	2.595-0	8.224-3	2.462-0	7.864-0	1.583-1	5.939-2		
1.012-1	6.128-0	1.014-1	5.085-0	2.626-0	8.096-3	2.450-0	7.749-0	1.555-1	6.098-2		
1.058-1	6.088-0	1.021-1	5.118-0	2.660-0	7.972-3	2.450-0	7.598-0	1.540-1	6.224-2		
1.101-1	6.045-0	1.027-1	5.154-0	2.696-0	7.837-3	2.450-0	7.554-0	1.539-1	6.356-2		
1.155-1	6.003-0	1.037-1	5.190-0	2.733-0	7.701-3	2.450-0	7.539-0	1.547-1	6.484-2		
1.199-1	5.974-0	1.045-1	5.216-0	2.758-0	7.568-3	2.450-0	7.452-0	1.600-1	6.612-2		
1.250-1	5.953-0	1.052-1	5.234-0	2.776-0	7.419-3	2.450-0	7.241-0	1.703-1	6.764-2		
1.307-1	5.934-0	1.061-1	5.251-0	2.793-0	7.273-3	2.450-0	7.086-0	1.799-1	6.910-2		
1.354-1	5.919-0	1.069-1	5.265-0	2.807-0	7.162-3	2.450-0	7.050-0	1.869-1	7.018-2		
1.396-1	5.908-0	1.075-1	5.274-0	2.817-0	7.079-3	2.450-0	7.026-0	1.922-1	7.098-2		
1.413-1	5.898-0	1.080-1	5.283-0	2.825-0	7.003-3	2.450-0	7.035-0	1.971-1	7.170-2		
1.441-1	5.888-0	1.085-1	5.292-0	2.835-0	6.927-3	2.450-0	7.020-0	2.020-1	7.241-2		
1.468-1	5.883-0	1.092-1	5.296-0	2.846-0	6.815-3	2.443-0	6.773-0	2.026-1	7.263-2		
1.519-1	5.937-0	1.112-1	5.248-0	2.841-0	6.631-3	2.401-0	5.466-0	1.761-1	7.157-2		
1.575-1	5.951-0	1.116-1	5.236-0	2.829-0	6.424-3	2.400-0	4.451-0	1.547-1	7.266-2		
1.633-1	5.965-0	1.121-1	5.224-0	2.817-0	6.214-3	2.400-0	4.225-0	1.530-1	7.584-2		
1.692-1	5.985-0	1.129-1	5.206-0	2.806-0	6.000-3	2.395-0	4.238-0	1.578-1	7.951-2		
1.752-1	6.015-0	1.141-1	5.180-0	2.793-0	5.782-3	2.381-0	6.819-0	1.669-1	8.212-2		
1.813-1	6.046-0	1.153-1	5.153-0	2.781-0	5.560-3	2.366-0	8.297-0	1.768-1	8.372-2		
1.875-1	6.095-0	1.167-1	5.112-0	2.762-0	5.224-3	2.345-0	8.296-0	1.918-1	8.604-2		
2.000-1											
RESONANCE INTEGRALS			8.882-2	6.681-2	2.099-2	1.033-1	5.893-2				
MAXWELLIAN AVERAGES			8.479-1	8.000-0	7.679-1			2.035-2			
1/E AVERAGES			5.074-1	3.817-1	1.199-1	5.902-1	3.366-1				
FISSION AVERAGES			6.933-0	4.378-0	1.318-1	2.424-0	7.559-0				
FUSION AVERAGES			5.275-0	2.819-0	7.061-3	2.450-0	7.023-0				

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ATOMIC WEIGHT 1.8095+ 2		DENSITY 1.6500+ 1 GRAMS/CC							
ENERGY	MFP (CM)	CROSS SECTION (BARNs)						ENERGY DEPOSIT(MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORBIN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307- 9	2.698+ 0	2.699- 1	6.710+ 1	6.261+ 0	6.083+ 1	3.563+ 2	5.504+ 0	9.834+ 5	5
5.227- 9	4.925+ 1	4.929- 1	3.675+ 1	6.255+ 0	3.049+ 1	1.786+ 2	5.037+ 0	9.001+ 5	5
2.091- 8	6.789+ 1	6.795- 1	2.665+ 1	6.246+ 0	2.042+ 1	1.196+ 2	4.648+ 0	8.307+ 5	5
3.267- 8	7.861+ 1	7.869- 1	2.303+ 1	6.237+ 0	1.679+ 1	9.833+ 1	4.486+ 0	7.911+ 5	5
4.704- 8	9.270+ 1	9.281- 1	1.953+ 1	6.221+ 0	1.331+ 1	7.793+ 1	4.136+ 0	7.395+ 5	5
8.322- 8	1.084+ 0	1.085+ 0	1.670+ 1	6.193+ 0	1.050+ 1	6.152+ 1	3.819+ 0	6.830+ 5	5
1.307- 7	1.216+ 0	1.218+ 0	1.489+ 1	6.159+ 0	8.730+ 0	5.113+ 1	3.559+ 0	6.369+ 5	5
1.862- 7	1.323+ 0	1.325+ 0	1.368+ 1	6.118+ 0	7.561+ 0	4.428+ 1	3.355+ 0	6.007+ 5	5
2.561- 7	1.416+ 0	1.419+ 0	1.278+ 1	6.071+ 0	6.709+ 0	3.929+ 1	3.187+ 0	5.709+ 5	5
3.3+5- 7	1.490+ 0	1.493+ 0	1.215+ 1	6.016+ 0	6.132+ 0	3.591+ 1	3.064+ 0	5.499+ 5	5
4.234- 7	1.551+ 0	1.554+ 0	1.157+ 1	5.959+ 0	5.719+ 0	3.347+ 1	2.971+ 0	5.332+ 5	5
5.123- 7	1.636+ 0	1.639+ 0	1.107+ 1	5.851+ 0	5.216+ 0	3.055+ 1	2.861+ 0	5.141+ 5	5
7.527- 7	1.720+ 0	1.723+ 0	1.052+ 1	5.635+ 0	4.888+ 0	2.863+ 1	2.819+ 0	5.083+ 5	5
1.176- 6	1.733+ 0	1.736+ 0	1.045+ 1	5.389+ 0	5.059+ 0	2.963+ 1	2.939+ 0	5.317+ 5	5
1.511- 6	1.675+ 0	1.679+ 0	1.081+ 1	5.091+ 0	5.714+ 0	3.347+ 1	3.210+ 0	5.832+ 5	5
2.091- 6	1.412+ 0	1.414+ 0	1.282+ 1	4.691+ 0	8.128+ 0	4.760+ 1	3.849+ 0	7.036+ 5	5
2.741- 6	1.705+ 1	1.710+ 1	2.349+ 1	4.221+ 0	1.927+ 1	1.129+ 2	4.975+ 0	1.080+ 5	5
3.533- 6	1.033+ 2	1.033+ 2	1.752+ 3	1.253+ 2	1.627+ 3	9.527+ 3	5.636+ 0	1.047+ 4	5
4.704- 6	4.062+ 1	4.066+ 1	4.456+ 1	1.401+ 1	3.055+ 1	1.789+ 2	4.161+ 0	7.778+ 5	5
5.658- 6	1.231+ 0	1.234+ 0	1.470+ 1	9.054+ 0	5.647+ 0	3.308+ 1	2.332+ 0	4.404+ 5	5
6.737- 6	1.725+ 0	1.730+ 0	1.049+ 1	7.387+ 0	3.103+ 1	1.818+ 1	1.796+ 0	3.435+ 5	5
8.322- 6	1.503+ 0	1.506+ 0	1.204+ 1	5.531+ 0	6.508+ 0	3.812+ 1	1.281+ 0	6.359+ 5	5
9.620- 6	3.152+ 2	3.153+ 2	5.724+ 2	5.183+ 1	5.224+ 2	3.059+ 3	5.522+ 0	1.080+ 5	5
1.101- 5	1.232+ 0	1.225+ 0	1.481+ 1	9.760+ 0	5.061+ 1	9.959+ 1	2.070+ 0	4.106+ 5	5
1.307- 5	1.459+ 1	1.459+ 1	1.241+ 2	1.067+ 1	1.135+ 2	6.646+ 2	5.548+ 0	1.118+ 4	5
1.458- 5	1.751+ 0	1.757+ 0	1.034+ 1	8.299+ 0	2.037+ 1	1.193+ 1	1.196+ 0	2.448+ 5	5
1.581- 5	2.099+ 0	2.106+ 0	8.622+ 0	7.570+ 0	1.052+ 0	6.160+ 0	7.404+ 1	1.541+ 5	5
1.758- 5	2.241+ 0	2.248+ 0	8.077+ 0	6.925+ 0	1.152+ 0	6.749+ 0	8.659+ 1	1.823+ 5	5
1.862- 5	2.471+ 1	2.472+ 1	7.324+ 1	7.608+ 0	6.563+ 1	3.844+ 2	6.439+ 0	1.153+ 4	5
2.075- 5	9.436+ 1	9.449+ 1	1.918+ 1	6.148+ 0	1.303+ 1	7.632+ 1	4.124+ 0	8.692+ 5	5
2.277- 5	4.165+ 2	4.167+ 2	4.345+ 2	5.188+ 1	3.827+ 2	2.241+ 3	5.345+ 0	1.165+ 4	5
2.417- 5	7.605+ 1	7.619+ 1	2.380+ 1	1.142+ 1	1.239+ 1	7.254+ 1	3.159+ 0	6.926+ 5	5
2.561- 5	1.971+ 0	1.977+ 0	9.182+ 0	7.494+ 0	1.689+ 0	9.889+ 0	1.116+ 0	2.498+ 5	5
2.710- 5	2.355+ 0	2.363+ 0	7.685+ 0	6.444+ 0	1.241+ 0	7.270+ 0	9.800+ 1	1.225+ 5	5
2.862- 5	2.531+ 0	2.539+ 0	7.151+ 0	5.694+ 0	1.457+ 0	8.533+ 0	1.247+ 0	2.823+ 5	5
2.940- 5	1.029+ 0	1.030+ 0	1.759+ 1	5.670+ 0	1.192+ 1	6.981+ 1	4.113+ 0	9.328+ 5	5
3.099- 5	2.178+ 0	2.183+ 0	6.310+ 0	4.364+ 0	3.374+ 0	1.976+ 1	2.464+ 0	5.736+ 5	5
3.345- 5	2.457+ 2	2.458+ 2	7.368+ 2	1.372+ 2	5.986+ 2	3.506+ 3	4.931+ 1	1.168+ 4	5
3.601- 5	2.451+ 1	2.454+ 1	7.364+ 1	2.067+ 1	5.317+ 1	3.115+ 2	4.371+ 1	1.046+ 4	5
3.866- 5	1.433+ 2	1.435+ 2	1.263+ 3	5.211+ 2	7.423+ 2	4.348+ 3	3.566+ 0	8.878+ 5	5
4.048- 5	6.183+ 1	6.202+ 1	2.927+ 1	2.329+ 1	5.985+ 0	3.508+ 1	1.241+ 0	3.091+ 5	5
4.234- 5	9.952+ 1	9.985+ 1	1.837+ 1	1.614+ 1	2.226+ 0	1.305+ 1	7.361+ 1	1.873+ 5	5
4.329- 5	1.200+ 0	1.204+ 0	1.508+ 1	1.391+ 1	1.177+ 0	6.894+ 0	4.736+ 1	1.237+ 5	5
4.619- 5	1.435+ 0	1.440+ 0	1.261+ 1	1.183+ 1	7.839+ 1	4.591+ 0	3.773+ 1	1.011+ 5	5
4.717- 5	6.217+ 1	6.225+ 1	2.911+ 1	1.024+ 1	1.887+ 1	1.125+ 2	3.934+ 0	1.021+ 4	5
4.918- 5	1.042+ 0	1.045+ 0	1.737+ 1	1.147+ 1	5.903+ 0	3.458+ 1	2.063+ 0	5.391+ 5	5
5.123- 5	1.721+ 0	1.724+ 0	1.052+ 1	1.011+ 1	4.095+ 1	2.390+ 1	2.353+ 1	6.798+ 6	5
5.332- 5	1.876+ 0	1.883+ 0	9.649+ 0	9.035+ 0	5.141+ 1	3.597+ 0	3.663+ 1	1.097+ 6	5
5.654- 5	1.084+ 0	1.086+ 0	1.669+ 1	6.931+ 0	8.785+ 0	5.146+ 1	3.194+ 0	8.746+ 5	5
5.763- 5	1.733+ 0	1.738+ 0	1.044+ 1	8.310+ 0	2.133+ 0	1.250+ 1	1.240+ 0	3.465+ 5	5
6.097- 5	1.999+ 1	2.000+ 1	5.054+ 1	1.301+ 1	7.753+ 1	4.542+ 2	5.198+ 0	1.467+ 4	5
6.325- 5	9.897+ 1	9.919+ 1	1.829+ 1	1.097+ 1	7.320+ 0	4.288+ 1	2.429+ 0	6.913+ 5	5
6.557- 5	2.021+ 0	2.028+ 0	8.955+ 0	8.470+ 0	4.894+ 1	2.843+ 1	3.290+ 1	1.013+ 5	5
6.674- 5	2.220+ 0	2.220+ 0	8.154+ 0	7.789+ 0	3.650+ 1	2.138+ 0	2.717+ 1	6.625+ 6	5
7.034- 5	2.422+ 0	2.431+ 0	7.473+ 0	7.103+ 0	3.693+ 1	2.163+ 0	3.000+ 1	9.591+ 6	5
7.155- 5	2.511+ 0	2.520+ 0	6.931+ 0	6.199+ 0	7.318+ 1	4.267+ 1	6.409+ 1	1.993+ 5	5
7.527- 5	8.695+ 2	8.701+ 2	2.012+ 2	3.860+ 1	1.896+ 2	9.932+ 2	4.945+ 0	1.510+ 4	5
7.780- 5	3.266+ 1	3.269+ 1	5.542+ 1	1.218+ 1	4.324+ 1	2.533+ 2	4.737+ 0	1.459+ 4	5
7.908- 5	1.750+ 0	1.755+ 0	1.034+ 1	7.597+ 0	2.747+ 0	1.609+ 1	1.612+ 0	5.057+ 5	5
8.167- 5	1.174+ 1	1.175+ 1	1.541+ 2	3.798+ 0	1.162+ 2	6.800+ 2	4.574+ 0	1.441+ 4	5
8.431- 5	4.799+ 1	4.804+ 1	3.772+ 1	9.802+ 0	2.791+ 1	1.635+ 2	4.493+ 0	1.432+ 4	5
8.834- 5	4.758+ 1	4.761+ 1	3.805+ 1	7.932+ 0	3.011+ 1	1.754+ 2	4.805+ 0	1.566+ 4	5

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ATOMIC WEIGHT 1.809542			DENSITY 1.65001 GRAMS/CC						
ENERGY	MFP (CM)		CROSS SECTION (BARNS)					ENERGY DEPOSIT(MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	6.674-1	6.681-1	2.712-1	6.745-0	2.037-1	1.193-2	4.560-0	1.501-4	
9.386-5	2.427-0	2.432-0	7.459-0	4.899-0	2.561-0	1.500-1	2.084-0	7.060-5	
9.668-5	2.704-1	2.705-1	6.695-1	1.037-1	5.598-1	3.279-2	5.075-0	1.716-4	
9.811-5	2.976-2	2.984-2	6.082-2	4.265-2	1.817-2	1.064-3	1.814-0	6.269-5	
1.025-4	1.375-1	1.377-1	1.081-1	4.778-1	6.030-1	3.532-2	3.387-0	1.195-4	
1.099-4	1.546-1	1.549-1	1.171-1	5.443-1	6.266-1	3.671-2	3.248-0	1.199-4	
1.176-4	1.677-0	1.680-0	1.680-1	1.001-1	5.792-0	3.979-1	2.454-0	9.260-5	
1.256-4	1.657-1	1.661-1	1.092-2	5.608-1	5.312-1	3.112-2	2.953-0	1.147-4	
1.338-4	1.857-1	1.860-1	9.746-1	3.362-1	6.384-1	3.740-2	3.976-0	1.610-4	
1.406-4	6.317-1	6.327-1	2.885-1	1.188-1	1.678-1	9.899-2	3.224-0	1.505-4	
1.511-4	1.519-0	1.925-0	9.433-0	8.724-0	7.093-1	4.155-0	4.584-1	2.155-5	
1.601-4	9.096-1	9.110-1	1.980-1	8.271-0	1.163-1	6.813-1	3.547-0	1.608-4	
1.694-4	7.702-2	7.720-2	2.350-2	1.436-2	9.137-1	5.353-2	2.350-0	1.112-4	
1.789-4	1.205-0	1.209-0	1.502-1	1.249-1	2.528-0	1.481-1	1.022-0	5.065-5	
1.887-4	1.304-1	1.308-1	1.388-2	1.287-2	1.008-1	5.906-2	4.408-1	2.391-5	
1.989-4	2.530-1	2.534-1	7.156-1	3.237-1	3.919-1	2.296-2	3.325-0	1.707-4	
2.091-4	2.520-1	2.525-1	7.182-1	3.826-1	3.355-1	1.966-2	2.836-0	1.646-4	
2.244-4	4.992-1	5.002-1	7.626-1	2.084-1	1.562-1	9.151-1	2.614-0	1.127-4	
2.367-4	6.070-1	6.070-1	9.982-1	1.215-1	1.767-1	1.035-2	3.586-0	2.754-4	
2.511-4	5.685-1	5.695-1	3.189-1	1.215-1	1.974-1	1.157-2	3.758-0	3.314-4	
2.704-4	6.022-1	6.031-1	3.005-1	1.214-1	1.791-1	1.050-2	3.618-0	3.540-4	
2.991-4	6.427-1	6.437-1	2.816-1	1.214-1	1.603-1	9.394-2	3.455-0	3.652-4	
3.258-4	6.808-1	6.820-1	2.659-1	1.213-1	1.445-1	8.473-2	3.300-0	3.781-4	
3.604-4	6.992-1	6.994-1	2.591-1	1.213-1	1.380-1	9.087-2	3.230-0	3.892-4	
3.967-4	7.134-1	7.146-1	2.537-1	1.212-1	1.325-1	9.768-2	3.170-0	4.111-4	
4.356-4	7.278-1	7.291-1	2.487-1	1.212-1	1.275-1	7.478-2	3.113-0	4.543-4	
4.782-4	7.381-1	7.394-1	2.452-1	1.211-1	1.242-1	7.292-2	3.074-0	5.001-4	
5.244-4	7.524-1	7.539-1	2.406-1	1.210-1	1.196-1	7.014-2	3.018-0	5.475-4	
5.750-4	8.082-1	8.098-1	2.240-1	1.208-1	1.032-1	6.053-2	2.797-0	5.858-4	
6.307-4	8.813-1	8.832-1	2.054-1	1.206-1	8.462-0	4.978-2	2.507-0	6.459-4	
6.919-4	9.187-1	9.207-1	1.970-1	1.203-1	7.671-0	4.504-2	2.384-0	7.233-4	
7.599-4	9.564-1	9.587-1	1.893-1	1.200-1	6.921-0	4.065-2	2.220-0	7.966-4	
8.350-4	9.943-1	9.967-1	1.821-1	1.197-1	6.230-0	3.660-2	2.078-0	8.649-4	
9.184-4	1.038-0	1.040-0	1.744-1	1.194-1	5.498-0	3.230-2	1.914-0	9.160-4	
1.011-3	1.079-0	1.082-0	1.677-1	1.191-1	4.862-0	2.895-2	1.761-0	9.612-4	
1.104-3	1.110-0	1.113-0	1.631-1	1.187-1	4.439-0	2.608-2	1.653-0	1.021-3	
1.209-3	1.142-0	1.145-0	1.585-1	1.183-1	4.013-0	2.358-2	1.538-0	1.088-3	
1.336-3	1.198-0	1.201-0	1.511-1	1.175-1	3.568-0	1.979-2	1.354-0	1.188-3	
1.486-3	1.262-0	1.266-0	1.434-1	1.160-1	2.736-0	1.608-2	1.160-0	1.335-3	
1.661-3	1.326-0	1.332-0	1.363-1	1.141-1	2.223-0	1.307-2	9.916-1	1.532-3	
1.864-3	1.425-0	1.430-0	1.270-1	1.108-1	1.622-0	9.541-2	7.769-1	1.725-3	
2.100-3	1.536-0	1.541-0	1.178-1	1.061-1	1.171-0	6.998-2	6.054-1	1.956-3	
2.371-3	1.633-0	1.645-0	1.104-1	1.012-1	9.185-1	5.414-2	5.071-1	2.199-3	
2.686-3	1.714-0	1.720-0	1.056-1	9.817-1	7.434-1	4.386-2	4.296-1	2.373-3	
3.057-3	1.774-0	1.780-0	1.020-1	9.556-1	6.468-1	3.016-2	3.875-1	2.851-3	
3.503-3	1.840-0	1.847-0	9.836-1	9.269-1	5.672-1	2.394-2	3.530-1	2.933-3	
4.024-3	1.911-0	1.917-0	9.474-1	8.989-1	4.849-1	2.206-2	3.139-1	3.205-3	
4.621-3	1.951-0	1.992-0	9.277-1	8.862-1	4.154-1	1.966-2	2.753-1	3.349-3	
5.302-3	1.988-0	2.089-0	9.104-1	8.734-1	3.701-1	1.700-2	2.507-1	3.859-3	
6.172-3	2.030-0	2.174-0	8.919-1	8.589-1	3.293-1	1.399-2	2.287-1	4.230-3	
7.251-3	2.167-0	2.355-0	8.351-1	8.056-1	2.952-1	1.204-2	2.197-1	5.134-3	
8.677-3	2.454-0	2.742-0	7.375-1	7.076-1	2.675-1	3.177-2	2.230-1	7.195-3	
1.040-2	2.499-0	2.636-0	7.244-1	6.851-1	2.776-1	1.156-2	1.339-1	9.213-3	
1.275-2	2.506-0	2.865-0	7.222-1	6.722-1	2.825-1	1.882-2	1.436-1	1.078-2	
1.517-2	2.517-0	2.906-0	7.192-1	6.646-1	2.811-1	2.652-2	2.549-1	1.226-2	
1.710-2	2.530-0	2.946-0	7.155-1	6.558-1	2.688-1	3.280-2	1.594-1	1.306-2	
1.940-2	2.545-0	2.981-0	7.112-1	6.435-1	2.443-1	4.227-2	1.780-1	1.349-2	
2.245-2	2.559-0	3.025-0	7.075-1	6.248-1	2.776-1	5.695-2	2.163-1	1.488-2	
2.677-2	2.570-0	3.079-0	7.043-1	6.048-1	2.210-1	7.748-2	2.435-1	1.590-2	
3.243-2	2.583-0	3.121-0	7.008-1	5.746-1	2.064-1	1.056-2	2.847-1	1.757-2	
3.973-2	2.630-0	3.252-0	6.881-1	5.349-1	1.855-1	1.347-2	3.309-1	1.993-2	
4.925-2	2.692-0	3.385-0	6.724-1	4.992-1	1.627-1	1.568-2	3.705-1	2.215-2	

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ATOMIC WEIGHT 1.8095+2		DENSITY 1.6600+1 GRAMS/CC					
ENERGY	HFP (CM)	CROSS SECTION (BARNS)					ENERGY DEPOSIT (MEV)
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	REMAINDER	GAM-PROD.
TOTAL	LOCAL						
7.527-1	2.638+0	3.328+0	6.861+0	4.802+0	1.482-1	1.910+0	4.589+0
6.834-1	2.582+0	3.475+0	7.234+0	4.595+0	1.347-1	2.505+0	6.379+0
1.025+0	2.469+0	3.790+0	7.331+0	4.460+0	1.220-1	2.700+0	7.745+0
1.175+0	2.495+0	3.882+0	7.255+0	4.397+0	1.095-1	2.749+0	8.645+0
1.338+0	2.498+0	3.920+0	7.246+0	4.330+0	9.611-2	2.820+0	1.123+1
1.511+0	2.510+0	3.995+0	7.210+0	4.280+0	8.291-2	2.848+0	1.330+1
1.694+0	2.547+0	4.146+0	7.106+0	4.242+0	6.974-2	2.795+0	1.456+1
1.887+0	2.585+0	4.324+0	6.991+0	4.205+0	5.666-2	2.729+0	1.513+1
2.091+0	2.604+0	4.430+0	6.951+0	4.190+0	4.914-2	2.712+0	1.545+1
2.305+0	2.613+0	4.493+0	6.928+0	4.179+0	4.267-2	2.707+0	1.582+1
2.530+0	2.619+0	4.554+0	6.911+0	4.168+0	3.604-2	2.707+0	1.582+1
2.741+0	2.619+0	4.594+0	6.910+0	4.156+0	2.884-2	2.725+0	1.588+1
3.011+0	2.659+0	4.702+0	6.808+0	4.067+0	2.373-2	2.717+0	1.519+1
3.267+0	2.736+0	4.861+0	6.615+0	3.910+0	2.113-2	2.684+0	1.395+1
3.533+0	2.822+0	5.033+0	6.415+0	3.747+0	1.842-2	2.649+0	1.331+1
3.811+0	2.908+0	5.208+0	6.221+0	3.589+0	1.583-2	2.617+0	1.309+1
4.068+0	2.967+0	5.285+0	6.110+0	3.468+0	1.459-2	2.627+0	1.306+1
4.338+0	3.044+0	5.495+0	6.024+0	3.357+0	1.381-2	2.653+0	1.311+1
4.704+0	3.045+0	5.322+0	5.944+0	3.253+0	1.307-2	2.677+0	1.324+1
4.991+0	3.110+0	5.350+0	5.820+0	3.120+0	1.229-2	2.680+0	1.339+1
5.353+0	3.198+0	5.441+0	5.660+0	2.988+0	1.149-2	2.660+0	1.354+1
5.658+0	3.295+0	5.536+0	5.494+0	2.843+0	1.067-2	2.640+0	1.370+1
6.042+0	3.376+0	5.619+0	5.362+0	2.733+0	1.016-2	2.619+0	1.384+1
6.387+0	3.440+0	5.693+0	5.261+0	2.653+0	9.906-3	2.598+0	1.397+1
6.737+0	3.514+0	5.725+0	5.151+0	2.566+0	9.619-3	2.575+0	1.416+1
7.156+0	3.566+0	5.737+0	5.075+0	2.515+0	9.324-3	2.551+0	1.435+1
7.549+0	3.600+0	5.740+0	5.028+0	2.477+0	9.050-3	2.541+0	1.442+1
7.910+0	3.612+0	5.673+0	5.011+0	2.426+0	8.769-3	2.576+0	1.456+1
8.322+0	3.635+0	5.679+0	4.990+0	2.392+0	8.451-3	2.579+0	1.833+1
8.787+0	3.692+0	5.763+0	5.039+0	2.529+0	8.140-3	2.502+0	2.370+1
9.177+0	3.629+0	5.673+0	5.129+0	2.579+0	7.821-3	2.542+0	2.675+1
9.655+0	3.665+0	5.556+0	5.225+0	2.612+0	7.478-3	2.605+0	2.679+1
1.012+1	3.711+0	5.620+0	5.215+0	2.638+0	7.144-3	2.570+0	2.497+1
1.058+1	3.511+0	5.799+0	5.155+0	2.660+0	6.820-3	2.489+0	2.145+1
1.101+1	3.521+0	5.910+0	5.110+0	2.687+0	6.470-3	2.447+0	1.794+1
1.155+1	3.505+0	5.962+0	5.185+0	2.716+0	6.114-3	2.442+0	1.573+1
1.199+1	3.482+0	5.959+0	5.197+0	2.751+0	5.911-3	2.440+0	1.370+1
1.250+1	3.454+0	6.093+0	5.241+0	2.796+0	6.314-3	2.438+0	1.129+1
1.307+1	3.426+0	6.068+0	5.263+0	2.840+0	7.123-3	2.436+0	9.892+0
1.354+1	3.405+0	6.104+0	5.315+0	2.874+0	7.739-3	2.433+0	9.460+0
1.386+1	3.390+0	6.129+0	5.339+0	2.899+0	8.198-3	2.432+0	9.321+0
1.413+1	3.375+0	6.141+0	5.363+0	2.922+0	8.619-3	2.432+0	9.362+0
1.441+1	3.340+0	6.109+0	5.406+0	2.944+0	9.045-3	2.433+0	9.569+0
1.468+1	3.345+0	6.128+0	5.411+0	2.949+0	9.621-3	2.452+0	1.058+1
1.519+1	3.357+0	6.192+0	5.391+0	2.941+0	1.010-2	2.441+0	1.288+1
1.575+1	3.370+0	6.266+0	5.371+0	2.929+0	1.053-2	2.431+0	1.608+1
1.633+1	3.378+0	6.320+0	5.398+0	2.917+0	1.097-2	2.430+0	1.868+1
1.692+1	3.385+0	6.371+0	5.347+0	2.906+0	1.119-2	2.430+0	2.130+1
1.752+1	3.393+0	6.424+0	5.334+0	2.893+0	1.104-2	2.430+0	2.127+1
1.813+1	3.401+0	6.474+0	5.322+0	2.881+0	1.089-2	2.430+0	1.630+1
1.875+1	3.413+0	6.509+0	5.303+0	2.862+0	1.066-2	2.430+0	1.476+1
2.000+1							
RESONANCE INTEGRALS							
MAXWELLIAN AVERAGES							
1/E AVERAGES							
FISSION AVERAGES							
FISSION AVERAGES							

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT		1.0305 ± 2		DENSITY 1.9300 ± 1 GRAMS/CC									
ENERGY MEV	TFP (CM)		CROSS SECTION (BARN'S)								ENERGY DEPOSIT (MEV)		
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPT	REMAINDER	GAM-PROD.	TOTAL	LCAL				
1.307 - 9	2.666 ± 1	2.067 ± 1	5.933 ± 1	4.000 ± 0	5.533 ± 1			4.416 ± 2	5.437 ± 0	9.189 ± 5			
5.227 - 9	5.220 ± 1	5.223 ± 1	3.030 ± 1	4.000 ± 0	2.630 ± 1			6.733 ± 1	5.060 ± 0	8.549 ± 5			
2.091 - 8	7.203 ± 1	7.207 ± 1	2.196 ± 1	3.999 ± 0	1.796 ± 1			4.598 ± 1	4.768 ± 0	8.056 ± 5			
3.267 - 8	8.453 ± 1	8.460 ± 1	1.871 ± 1	3.996 ± 0	1.472 ± 1			3.767 ± 1	4.585 ± 0	7.747 ± 5			
7.704 - 8	1.019 ± 0	1.020 ± 0	1.552 ± 1	3.990 ± 0	1.153 ± 1			2.951 ± 1	4.039 ± 0	6.830 ± 5			
9.322 - 8	1.221 ± 0	1.222 ± 0	1.296 ± 1	3.979 ± 0	8.976 ± 0			2.298 ± 1	4.039 ± 0	6.830 ± 5			
1.307 - 7	1.394 ± 0	1.396 ± 0	1.135 ± 1	3.966 ± 0	7.398 ± 0			1.850 ± 1	3.793 ± 0	6.417 ± 5			
1.682 - 7	1.546 ± 0	1.548 ± 0	1.073 ± 1	3.950 ± 0	6.284 ± 0			1.609 ± 1	3.580 ± 0	6.060 ± 5			
2.561 - 7	1.692 ± 0	1.695 ± 0	9.405 ± 0	3.931 ± 0	5.473 ± 0			1.401 ± 1	3.393 ± 0	5.748 ± 5			
3.345 - 7	1.804 ± 0	1.807 ± 0	8.768 ± 0	3.910 ± 0	4.858 ± 0			1.234 ± 1	3.230 ± 0	5.477 ± 5			
4.234 - 7	1.911 ± 0	1.915 ± 0	8.275 ± 0	3.897 ± 0	4.389 ± 0			1.123 ± 1	3.091 ± 0	5.247 ± 5			
5.123 - 7	2.062 ± 0	2.065 ± 0	7.673 ± 0	3.845 ± 0	3.827 ± 0			3.998 ± 0	2.903 ± 0	4.944 ± 5			
7.527 - 7	2.242 ± 0	2.247 ± 0	7.055 ± 0	3.761 ± 0	3.294 ± 0			8.432 ± 0	2.722 ± 0	4.643 ± 5			
1.176 - 6	2.467 ± 0	2.472 ± 0	6.413 ± 0	3.664 ± 0	2.748 ± 0			7.035 ± 0	2.499 ± 0	4.278 ± 5			
1.511 - 6	2.889 ± 0	2.896 ± 0	5.476 ± 0	3.548 ± 0	1.928 ± 0			4.936 ± 0	2.053 ± 0	3.531 ± 5			
2.097 - 6	3.330 ± 0	3.339 ± 0	4.750 ± 0	3.391 ± 0	1.359 ± 0			3.479 ± 0	1.689 ± 0	2.897 ± 5			
2.741 - 6	3.492 ± 0	3.501 ± 0	4.599 ± 0	3.267 ± 0	1.389 ± 0			3.384 ± 0	1.701 ± 0	2.968 ± 5			
3.533 - 6	3.530 ± 0	3.539 ± 0	4.481 ± 0	2.957 ± 0	1.523 ± 0			3.800 ± 0	1.982 ± 0	3.491 ± 5			
4.704 - 6	3.193 ± 0	3.199 ± 0	4.354 ± 0	2.687 ± 0	2.267 ± 0			5.805 ± 0	2.660 ± 0	4.748 ± 5			
5.558 - 6	1.865 ± 0	1.867 ± 0	8.392 ± 0	2.269 ± 0	6.123 ± 0			1.567 ± 1	4.253 ± 0	7.646 ± 5			
6.737 - 6	3.569 ± 2	3.570 ± 2	4.432 ± 2	1.347 ± 1	4.297 ± 2			1.100 ± 3	5.653 ± 0	1.029 ± 4			
9.322 - 6	1.311 ± 0	1.313 ± 0	1.207 ± 1	4.224 ± 0	7.843 ± 0			2.008 ± 1	3.789 ± 0	6.968 ± 5			
9.620 - 6	3.167 ± 0	3.174 ± 0	4.995 ± 0	3.270 ± 0	1.725 ± 0			4.415 ± 0	2.013 ± 0	3.558 ± 5			
1.101 - 5	4.017 ± 0	4.028 ± 0	3.938 ± 0	2.901 ± 0	1.037 ± 0			2.655 ± 0	1.535 ± 0	2.917 ± 5			
1.307 - 5	4.552 ± 0	4.565 ± 0	3.475 ± 0	2.538 ± 0	9.371 ± 1			2.399 ± 0	1.572 ± 0	3.039 ± 5			
1.468 - 5	4.851 ± 0	4.863 ± 0	3.261 ± 0	2.266 ± 0	9.947 ± 1			2.546 ± 0	1.778 ± 0	3.748 ± 5			
1.591 - 5	5.162 ± 0	5.174 ± 0	3.064 ± 0	1.975 ± 0	1.085 ± 0			2.778 ± 0	2.065 ± 0	4.088 ± 5			
1.758 - 5	5.320 ± 0	5.331 ± 0	2.973 ± 0	1.682 ± 0	1.292 ± 0			3.307 ± 0	2.533 ± 0	5.076 ± 5			
1.882 - 5	5.131 ± 0	5.139 ± 0	3.063 ± 0	1.369 ± 0	1.714 ± 0			4.388 ± 0	3.241 ± 0	6.582 ± 5			
2.075 - 5	4.187 ± 0	4.191 ± 0	3.778 ± 0	9.780 ± 1	2.800 ± 0			7.168 ± 0	4.321 ± 0	9.916 ± 5			
2.277 - 5	5.213 ± 0	5.215 ± 0	6.294 ± 0	8.280 ± 1	5.666 ± 0			1.399 ± 1	5.063 ± 0	1.059 ± 4			
2.417 - 5	4.412 ± 1	4.418 ± 1	1.880 ± 1	3.395 ± 0	1.541 ± 1			3.945 ± 1	4.777 ± 0	1.12 ± 4			
2.561 - 5	1.396 ± 2	1.398 ± 2	1.133 ± 3	4.332 ± 2	7.000 ± 2			1.732 ± 3	3.601 ± 0	7.750 ± 5			
2.710 - 5	7.690 ± 3	7.900 ± 3	2.005 ± 3	6.805 ± 2	1.324 ± 3			3.390 ± 3	3.951 ± 0	8.304 ± 5			
2.862 - 5	4.136 ± 1	4.143 ± 1	3.825 ± 1	1.985 ± 0	1.840 ± 1			4.710 ± 1	2.804 ± 0	6.138 ± 5			
2.940 - 5	9.309 ± 1	9.329 ± 1	1.699 ± 1	9.745 ± 0	7.248 ± 0			1.855 ± 1	2.487 ± 0	5.495 ± 5			
3.099 - 5	1.933 ± 0	1.938 ± 0	8.181 ± 0	4.915 ± 0	3.267 ± 0			8.363 ± 0	2.328 ± 0	5.227 ± 5			
3.345 - 5	3.349 ± 0	3.355 ± 0	4.724 ± 0	2.393 ± 0	2.330 ± 0			5.965 ± 0	2.876 ± 0	6.580 ± 5			
3.601 - 5	4.343 ± 0	4.346 ± 0	3.642 ± 0	8.101 ± 0	2.632 ± 0			7.250 ± 0	4.533 ± 0	1.056 ± 4			
3.866 - 5	1.153 ± 0	1.153 ± 0	1.372 ± 1	9.577 ± 1	1.276 ± 1			3.267 ± 1	5.423 ± 0	1.287 ± 4			
4.048 - 5	1.574 ± 1	1.574 ± 1	1.005 ± 2	3.450 ± 0	9.708 ± 1			2.485 ± 2	5.636 ± 0	1.342 ± 4			
4.234 - 5	8.090 ± 1	8.099 ± 1	1.955 ± 1	6.008 ± 0	1.354 ± 1			3.467 ± 1	4.039 ± 0	9.788 ± 5			
4.329 - 5	6.562 ± 3	6.578 ± 3	2.111 ± 3	1.595 ± 3	8.154 ± 2			2.087 ± 3	1.972 ± 0	4.909 ± 5			
4.619 - 5	5.185 ± 3	5.199 ± 3	3.051 ± 3	2.279 ± 3	7.715 ± 2			1.975 ± 3	1.474 ± 0	3.695 ± 5			
4.717 - 5	1.191 ± 2	1.193 ± 2	1.328 ± 3	8.262 ± 2	5.023 ± 2			1.286 ± 3	2.204 ± 0	5.554 ± 5			
4.918 - 5	2.157 ± 1	2.164 ± 1	7.333 ± 1	5.989 ± 1	1.403 ± 1			3.593 ± 1	1.116 ± 0	2.979 ± 5			
5.123 - 5	4.351 ± 1	4.366 ± 1	3.634 ± 1	3.174 ± 1	4.606 ± 0			1.179 ± 1	7.399 ± 1	1.955 ± 5			
5.332 - 5	6.709 ± 1	6.731 ± 1	2.358 ± 1	2.143 ± 1	2.153 ± 0			5.511 ± 0	5.323 ± 1	1.450 ± 5			
5.654 - 5	8.515 ± 1	8.544 ± 1	1.858 ± 1	1.726 ± 1	1.317 ± 0			3.373 ± 0	4.135 ± 1	1.158 ± 5			
5.763 - 5	1.024 ± 0	1.027 ± 0	1.545 ± 1	1.450 ± 0	9.531 ± 1			2.440 ± 0	3.596 ± 1	1.031 ± 5			
6.097 - 5	1.236 ± 0	1.240 ± 0	1.280 ± 1	1.200 ± 1	7.987 ± 1			2.045 ± 0	3.638 ± 1	1.063 ± 5			
6.325 - 5	3.166 ± 1	3.169 ± 1	4.996 ± 1	1.024 ± 1	3.972 ± 1			1.917 ± 2	4.635 ± 0	1.327 ± 4			
6.557 - 5	4.490 ± 1	4.497 ± 1	3.523 ± 1	1.467 ± 1	2.056 ± 1			5.262 ± 1	3.402 ± 0	9.532 ± 5			
6.774 - 5	1.374 ± 0	1.379 ± 0	1.151 ± 1	1.078 ± 1	7.514 ± 1			1.924 ± 0	3.805 ± 1	1.133 ± 5			
7.034 - 5	1.573 ± 0	1.578 ± 0	1.006 ± 1	9.716 ± 0	3.411 ± 1			8.733 ± 1	1.970 ± 1	6.477 ± 5			
7.155 - 5	1.687 ± 0	1.693 ± 0	9.377 ± 0	9.100 ± 0	2.761 ± 1			7.069 ± 1	1.717 ± 1	5.821 ± 6			
7.527 - 5	1.810 ± 0	1.816 ± 0	8.741 ± 0	8.509 ± 0	2.316 ± 1			5.930 ± 1	1.545 ± 1	5.435 ± 6			
7.780 - 5	1.690 ± 0	1.697 ± 0	8.368 ± 0	8.149 ± 0	2.193 ± 1			5.614 ± 1	1.528 ± 1	5.454 ± 6			
7.908 - 5	1.378 ± 0	1.385 ± 0	7.997 ± 0	7.793 ± 0	2.140 ± 1			5.479 ± 1	1.560 ± 1	5.624 ± 6			
8.167 - 5	2.087 ± 0	2.094 ± 0	7.581 ± 0	7.364 ± 0	2.162 ± 1			5.534 ± 1	1.663 ± 1	6.037 ± 6			
8.431 - 5	2.194 ± 0	2.201 ± 0	7.211 ± 0	6.999 ± 0	2.423 ± 1			6.202 ± 1	1.959 ± 1	7.100 ± 6			
8.634 - 5	2.298 ± 0	2.306 ± 0	6.883 ± 0	6.568 ± 0	3.144 ± 1			8.049 ± 1	2.663 ± 1	9.506 ± 6			

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ENDL 175 Group Neutron Constants

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ATOMIC HEIGHT 1.8385+ 2		DENSITY 1.9300+ 1 GRAMS/CC							
ENERGY	MFP (CM)	CROSS SECTION (BARNS)					ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108+ 5	2.362+ 0	2.371+ 0	6.696+ 0	6.241+ 0	4.543+ 1	1.163+ 0	3.955+ 0	1.386+ 5	
9.886+ 5	2.248+ 0	2.255+ 0	7.036+ 0	6.153+ 0	8.824+ 1	2.259+ 0	7.312+ 1	2.516+ 5	
9.666+ 5	1.576+ 0	1.581+ 0	1.004+ 1	8.055+ 0	1.982+ 0	5.075+ 0	1.151+ 0	3.945+ 5	
9.811+ 5	2.940+ 0	2.949+ 0	5.380+ 2	4.233+ 2	1.147+ 2	2.937+ 2	1.243+ 0	4.334+ 5	
1.039+ 4	4.155+ 1	4.163+ 1	1.808+ 1	2.401+ 1	1.407+ 1	3.603+ 1	2.155+ 0	7.529+ 5	
1.039+ 4	1.732+ 0	1.742+ 0	9.112+ 0	9.838+ 0	2.747+ 1	7.032+ 1	1.757+ 1	7.558+ 6	
1.176+ 4	2.137+ 0	2.114+ 0	7.509+ 0	7.330+ 0	1.787+ 1	4.575+ 1	1.368+ 1	6.508+ 6	
1.256+ 4	2.491+ 0	2.499+ 0	6.351+ 0	6.121+ 0	2.301+ 1	5.891+ 1	2.112+ 1	9.611+ 6	
1.338+ 4	9.192+ 1	9.204+ 1	1.721+ 1	6.333+ 1	1.088+ 1	2.784+ 1	3.685+ 0	1.494+ 4	
1.406+ 4	2.308+ 1	2.313+ 1	6.053+ 1	3.637+ 1	3.216+ 1	8.234+ 1	2.736+ 0	1.145+ 4	
1.511+ 4	3.549+ 2	3.558+ 2	4.457+ 2	3.075+ 2	1.382+ 2	3.538+ 2	1.808+ 0	7.991+ 5	
1.601+ 4	8.758+ 1	8.787+ 1	1.806+ 1	1.670+ 1	1.364+ 0	3.491+ 0	4.401+ 1	2.135+ 5	
1.694+ 4	1.581+ 1	1.593+ 1	1.001+ 2	4.156+ 1	8.560+ 1	1.488+ 2	3.009+ 0	1.595+ 4	
1.789+ 4	1.542+ 1	1.547+ 1	1.026+ 1	9.947+ 0	4.110+ 1	1.052+ 0	2.335+ 1	1.318+ 5	
1.887+ 4	2.345+ 1	2.349+ 1	6.746+ 1	3.008+ 1	3.739+ 1	9.570+ 1	3.231+ 0	1.613+ 4	
1.988+ 4	1.720+ 0	1.726+ 0	3.195+ 0	9.078+ 0	1.171+ 1	2.989+ 1	7.428+ 2	6.011+ 6	
2.091+ 4	7.624+ 1	6.38+ 1	2.075+ 1	9.981+ 0	1.077+ 1	2.756+ 1	3.025+ 0	1.813+ 4	
2.241+ 4	2.069+ 1	2.074+ 1	7.646+ 1	5.013+ 1	2.633+ 1	6.742+ 1	2.008+ 0	1.374+ 4	
3.267+ 4	1.188+ 1	3.195+ 1	4.961+ 1	2.945+ 1	2.017+ 1	5.163+ 1	2.370+ 0	1.688+ 4	
3.811+ 4	4.476+ 1	4.491+ 1	3.532+ 1	2.676+ 1	8.560+ 0	2.191+ 1	1.413+ 0	1.284+ 4	
4.72+ 4	7.545+ 1	7.566+ 1	2.096+ 1	1.734+ 1	3.620+ 0	9.269+ 0	1.007+ 0	1.035+ 4	
4.991+ 4	4.195+ 1	4.206+ 1	3.771+ 1	2.899+ 1	8.721+ 0	2.233+ 1	1.348+ 0	1.534+ 4	
5.658+ 4	1.835+ 1	1.840+ 1	6.621+ 1	6.646+ 1	1.975+ 1	5.056+ 1	1.336+ 0	1.612+ 4	
6.042+ 4	1.219+ 0	1.223+ 0	1.297+ 1	1.136+ 1	1.612+ 0	4.127+ 0	7.244+ 1	9.328+ 5	
6.367+ 4	1.896+ 1	1.892+ 1	6.387+ 1	7.104+ 1	1.283+ 1	3.266+ 1	8.922+ 1	1.242+ 4	
7.155+ 4	2.000+ 1	2.007+ 1	7.907+ 1	7.328+ 1	5.618+ 0	1.480+ 1	4.290+ 1	6.527+ 5	
8.322+ 4	4.841+ 1	4.857+ 1	3.266+ 1	3.036+ 1	2.317+ 0	5.931+ 0	4.13+ 1	7.760+ 5	
9.177+ 4	4.903+ 1	4.920+ 1	3.226+ 1	2.943+ 1	2.831+ 0	7.248+ 0	5.117+ 1	1.048+ 4	
1.058+ 3	5.201+ 1	5.218+ 1	3.041+ 1	2.792+ 1	2.497+ 0	6.395+ 0	4.788+ 1	1.160+ 4	
1.307+ 3	5.566+ 1	5.587+ 1	2.641+ 1	2.641+ 1	1.999+ 0	5.119+ 0	4.104+ 1	1.222+ 4	
1.561+ 3	5.910+ 1	5.931+ 1	2.676+ 1	2.505+ 1	1.716+ 0	4.395+ 0	3.740+ 1	1.341+ 4	
1.882+ 3	6.216+ 1	6.238+ 1	2.545+ 1	2.393+ 1	1.516+ 0	3.882+ 0	3.475+ 1	1.477+ 4	
2.206+ 3	6.526+ 1	6.549+ 1	2.424+ 1	2.288+ 1	1.353+ 0	3.464+ 0	3.255+ 1	1.621+ 4	
2.561+ 3	6.797+ 1	6.820+ 1	2.327+ 1	2.203+ 1	1.242+ 0	3.180+ 0	3.112+ 1	1.793+ 4	
2.940+ 3	7.079+ 1	7.103+ 1	2.235+ 1	2.119+ 1	1.155+ 0	2.957+ 0	3.014+ 1	1.988+ 4	
3.345+ 3	7.321+ 1	7.347+ 1	2.161+ 1	2.052+ 1	1.082+ 0	2.772+ 0	2.922+ 1	2.189+ 4	
3.777+ 3	7.593+ 1	7.610+ 1	2.086+ 1	1.984+ 1	1.014+ 0	2.598+ 0	2.837+ 1	2.397+ 4	
4.23+ 3	8.052+ 1	8.081+ 1	1.954+ 1	1.875+ 1	8.947+ 1	2.292+ 0	2.658+ 1	2.814+ 4	
5.763+ 3	8.731+ 1	8.762+ 1	1.812+ 1	1.740+ 1	7.173+ 1	1.638+ 0	2.311+ 1	3.335+ 4	
7.527+ 3	9.427+ 1	9.461+ 1	1.678+ 1	1.616+ 1	6.139+ 1	1.677+ 0	2.137+ 1	4.185+ 4	
1.025+ 2	1.033+ 0	1.036+ 0	1.532+ 1	1.482+ 1	4.979+ 1	1.724+ 0	1.901+ 1	5.422+ 4	
1.511+ 2	1.131+ 0	1.135+ 0	1.399+ 1	1.360+ 1	3.948+ 1	1.599+ 0	1.652+ 1	6.949+ 4	
2.091+ 2	1.212+ 0	1.216+ 0	1.306+ 1	1.272+ 1	3.323+ 1	1.447+ 0	1.493+ 1	8.507+ 4	
2.846+ 2	1.280+ 0	1.284+ 0	1.236+ 1	1.207+ 1	2.917+ 1	1.300+ 0	1.386+ 1	1.008+ 3	
3.267+ 2	1.342+ 0	1.347+ 0	1.179+ 1	1.153+ 1	2.600+ 1	1.136+ 0	1.288+ 1	1.176+ 3	
3.953+ 2	1.406+ 0	1.413+ 0	1.123+ 1	1.100+ 1	2.342+ 1	9.559+ 0	1.229+ 1	1.358+ 3	
4.704+ 2	1.479+ 0	1.485+ 0	1.059+ 1	1.048+ 0	2.121+ 1	7.815+ 0	1.173+ 1	1.585+ 3	
5.761+ 2	1.568+ 0	1.600+ 0	1.009+ 1	9.893+ 0	1.971+ 1	7.043+ 0	1.158+ 1	1.895+ 3	
7.002+ 2	1.661+ 0	1.743+ 0	9.524+ 0	9.336+ 0	1.878+ 1	6.270+ 1	1.172+ 1	2.269+ 3	
8.322+ 2	1.730+ 0	1.871+ 0	9.146+ 0	8.963+ 0	1.830+ 1	5.397+ 1	1.193+ 1	2.692+ 3	
9.891+ 2	1.822+ 0	2.046+ 0	8.681+ 0	8.495+ 0	1.621+ 1	2.469+ 2	5.417+ 1	3.197+ 3	
1.307+ 1	1.977+ 0	2.256+ 0	8.003+ 0	7.766+ 0	1.235+ 1	9.396+ 2	6.879+ 1	3.527+ 3	
1.920+ 1	2.064+ 0	2.413+ 0	7.664+ 0	7.413+ 0	9.395+ 2	1.579+ 1	8.480+ 1	4.118+ 3	
2.075+ 1	1.124+ 0	2.509+ 0	7.447+ 0	7.154+ 0	8.575+ 2	2.076+ 1	1.031+ 1	4.558+ 3	
2.417+ 1	1.188+ 0	2.602+ 0	7.230+ 0	6.878+ 0	8.082+ 2	2.706+ 1	1.249+ 1	5.069+ 3	
2.710+ 1	2.235+ 0	2.710+ 0	7.077+ 0	6.652+ 0	7.739+ 2	3.475+ 1	1.429+ 1	5.476+ 3	
2.940+ 1	2.267+ 0	2.794+ 0	6.618+ 0	6.401+ 0	7.387+ 2	4.428+ 1	1.682+ 1	5.957+ 3	
3.345+ 1	2.345+ 0	2.917+ 0	5.745+ 0	6.107+ 0	6.994+ 2	5.683+ 1	2.069+ 1	6.510+ 3	
3.777+ 1	2.400+ 0	3.080+ 0	6.591+ 0	6.825+ 0	6.632+ 2	7.016+ 1	2.488+ 0	7.055+ 3	
4.234+ 1	2.399+ 0	3.170+ 0	6.595+ 0	6.629+ 0	6.184+ 2	9.033+ 1	3.180+ 1	8.058+ 3	
5.123+ 1	2.423+ 0	3.357+ 0	6.529+ 0	5.285+ 0	4.688+ 2	1.195+ 0	4.121+ 1	8.041+ 3	
6.325+ 1	2.469+ 0	3.477+ 0	6.107+ 0	4.851+ 0	3.606+ 2	1.520+ 0	4.962+ 0	8.269+ 3	

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74-W -Nat

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ENDL 175 Group Neutron Constants

74-W -Nat

ATOMIC WEIGHT 1.8385 + 2				DENSITY 1.9300 + 1 GRAMS/CC					
ENERGY	MFP (CM)		CROSS SECTION (BARNS)					ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1	2.471+0	3.431+0	6.400+0	4.514+0	2.767-2	1.859+0	5.897+0	1.593-1	8.458-3
8.834-1	2.438+0	3.378+0	6.488+0	4.245+0	2.169-2	2.221+0	7.060+0	1.905-1	8.740-3
1.025+0	2.421+0	3.407+0	6.534+0	4.135+0	1.897-2	2.380+0	7.467+0	2.337-1	9.302-3
1.176+0	2.346+0	3.427+0	6.741+0	4.255+0	1.759-2	2.427+0	7.534+0	2.588-1	9.928-3
1.338+0	2.282+0	3.470+0	6.933+0	4.399+0	1.638-2	2.477+0	7.696+0	2.873-1	1.048-2
1.511+0	2.232+0	3.543+0	7.087+0	4.541+0	1.532-2	2.531+0	7.816+0	3.196-1	1.096-2
1.694+0	2.198+0	3.646+0	7.198+0	4.597+0	1.438-2	2.587+0	8.017+0	3.570-1	1.137-2
1.887+0	2.181+0	3.793+0	7.252+0	4.598+0	1.355-2	2.641+0	8.184+0	4.013-1	1.177-2
2.091+0	2.184+0	3.932+0	7.242+0	4.580+0	1.279-2	2.694+0	8.140+0	4.461-1	1.259-2
2.305+0	2.191+0	3.965+0	7.219+0	4.558+0	1.212-2	2.649+0	8.048+0	4.954-1	1.353-2
2.530+0	2.202+0	4.004+0	7.182+0	4.523+0	1.151-2	2.648+0	7.928+0	5.467-1	1.447-2
2.741+0	2.218+0	4.046+0	7.133+0	4.475+0	1.099-2	2.647+0	7.777+0	6.062-1	1.548-2
3.011+0	2.252+0	4.112+0	7.023+0	4.367+0	1.045-2	2.646+0	7.584+0	6.792-1	1.662-2
3.267+0	2.304+0	4.191+0	6.865+0	4.210+0	9.994-3	2.645+0	7.054+0	7.621-1	1.782-2
3.533+0	2.361+0	4.275+0	6.701+0	4.047+0	9.582-3	2.644+0	7.493+0	8.548-1	1.906-2
3.811+0	2.419+0	4.359+0	6.540+0	3.888+0	9.188-3	2.644+0	7.259+0	9.503-1	2.026-2
4.069+0	2.473+0	4.435+0	6.397+0	3.745+0	8.819-3	2.643+0	7.054+0	1.056+0	2.157-2
4.396+0	2.530+0	4.521+0	6.252+0	3.602+0	8.480-3	2.641+0	6.878+0	1.178+0	2.295-2
4.704+0	2.586+0	4.602+0	6.117+0	3.469+0	8.163-3	2.641+0	6.806+0	1.298+0	2.425-2
4.991+0	2.656+0	4.696+0	5.955+0	3.314+0	7.497-3	2.633+0	6.776+0	1.439+0	2.560-2
5.353+0	2.740+0	4.754+0	5.774+0	3.147+0	6.608-3	2.620+0	6.798+0	1.594+0	2.695-2
5.658+0	2.831+0	4.817+0	5.587+0	2.976+0	5.845-3	2.606+0	6.920+0	1.768+0	2.824-2
6.042+0	2.905+0	4.869+0	5.444+0	2.849+0	5.190-3	2.580+0	7.061+0	1.946+0	2.986-2
6.367+0	2.963+0	4.913+0	5.339+0	2.762+0	4.647-3	2.572+0	7.199+0	2.112+0	3.123-2
6.737+0	3.027+0	4.962+0	5.225+0	2.668+0	4.130-3	2.554+0	7.344+0	2.305+0	3.287-2
7.156+0	3.085+0	4.982+0	5.161+0	2.615+0	3.681-3	2.543+0	7.492+0	2.483+0	3.449-2
7.598+0	3.092+0	4.994+0	5.116+0	2.577+0	3.327-3	2.535+0	7.653+0	2.587+0	3.599-2
7.910+0	3.121+0	5.007+0	5.069+0	2.538+0	3.015-3	2.528+0	7.830+0	2.650+0	3.748-2
8.322+0	3.148+0	5.039+0	5.025+0	2.503+0	2.711-3	2.519+0	7.991+0	2.610+0	3.896-2
8.787+0	3.156+0	5.066+0	5.013+0	2.500+0	2.456-3	2.510+0	8.040+0	2.194+0	4.035-2
9.177+0	3.159+0	5.089+0	5.008+0	2.504+0	2.231-3	2.502+0	7.973+0	1.717+0	4.176-2
9.665+0	3.134+0	5.098+0	5.046+0	2.592+0	2.021-3	2.492+0	7.975+0	1.545+0	4.310-2
1.012+1	3.103+0	5.101+0	5.098+0	2.614+0	1.844-3	2.483+0	7.980+0	1.467+0	4.396-2
1.058+1	3.072+0	5.106+0	5.149+0	2.673+0	1.693-3	2.474+0	7.781+0	1.394+0	4.465-2
1.101+1	3.037+0	5.108+0	5.208+0	2.742+0	1.551-3	2.465+0	7.619+0	1.397+0	4.535-2
1.155+1	3.000+0	5.170+0	5.272+0	2.815+0	1.423-3	2.455+0	7.611+0	1.485+0	4.602-2
1.199+1	2.972+0	5.229+0	5.322+0	2.875+0	1.313-3	2.446+0	7.619+0	1.571+0	4.671-2
1.250+1	2.949+0	5.305+0	5.364+0	2.928+0	1.204-3	2.435+0	7.404+0	1.669+0	4.735-2
1.307+1	2.951+0	5.410+0	5.361+0	2.935+0	1.112-3	2.425+0	7.171+0	1.777+0	4.803-2
1.354+1	2.966+0	5.508+0	5.333+0	2.915+0	1.048-3	2.417+0	7.071+0	1.867+0	4.866-2
1.386+1	2.976+0	5.570+0	5.316+0	2.900+0	1.004-3	2.415+0	7.033+0	1.934+0	4.915-2
1.413+1	2.973+0	5.565+0	5.321+0	2.886+0	9.896-4	2.433+0	7.110+0	1.989+0	4.979-2
1.441+1	2.969+0	5.536+0	5.328+0	2.873+0	9.790-4	2.454+0	7.191+0	2.044+0	5.046-2
1.468+1	2.985+0	5.567+0	5.300+0	2.854+0	9.639+4	2.445+0	7.237+0	2.101+0	5.124-2
1.519+1	3.012+0	5.653+0	5.252+0	2.841+0	9.433+4	2.410+0	7.430+0	2.071+0	5.251-2
1.575+1	3.038+0	5.743+0	5.206+0	2.829+0	9.211+4	2.376+0	7.623+0	1.995+0	5.316-2
1.633+1	3.053+0	5.792+0	5.181+0	2.817+0	8.988+4	2.362+0	7.774+0	1.974+0	5.415-2
1.692+1	3.067+0	5.836+0	5.158+0	2.806+0	8.802+4	2.351+0	7.888+0	2.040+0	5.576-2
1.752+1	3.081+0	5.882+0	5.135+0	2.793+0	8.627+4	2.340+0	7.972+0	2.051+0	5.877-2
1.813+1	3.095+0	5.929+0	5.111+0	2.781+0	8.449+4	2.329+0	8.003+0	2.023+0	6.035-2
1.875+1	3.117+0	5.992+0	5.075+0	2.762+0	8.180+4	2.312+0	8.071+0	1.962+0	6.273-2
2.000+1									
RESONANCE INTEGRALS			8.480+2	4.815+2	3.573+3	9.205+0	9.436+2		
MAXWELLIAN AVERAGES			2.023+1	3.992+0	1.624+1		4.158+1		
1/E AVERAGES			4.844+1	2.751+1	2.041+1	5.259+1	5.390+1		
FISSION AVERAGES			6.828+0	4.658+0	2.787-2	2.142+0	6.509+0		
FUSION AVERAGES			5.325+0	2.897+0	1.014-3	2.427+0	7.103+0		

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ENDL 175 Group Neutron Constants

75-Re-185

04/12/76

ENDL 175 Group Neutron Constants

75-Re-185

ATOMIC WEIGHT		1.8495+ 2		DENSITY		2.0899+ 1		GRAMS/CC		
ENERGY	MEV	NFP (CM)		CROSS SECTION (BARN)				GAM-PROD.	ENERGY DEPOSIT(MEV)	
		TOTAL	TRANSPORI	TOTAL	ELASTIC	ABSORPTN	REMAINDR		TOTAL	LOCAL
1.327- 9	4.101- 2	4.101- 2	3.584- 2	1.130- 1	3.471+ 2	9.613+ 2	5.983+ 2	1.065- 4		
5.227- 9	7.947- 2	7.949- 2	1.849- 2	1.129+ 1	1.736+ 2	4.809+ 2	5.801+ 0	1.033- 4		
2.091- 8	1.143- 1	1.143- 1	1.286- 2	1.128+ 1	1.173- 2	3.249+ 2	5.636+ 0	1.003- 4		
3.267- 8	1.391- 1	1.392- 1	1.056- 2	1.128+ 1	9.436- 1	2.614+ 2	5.519+ 0	9.826- 5		
4.704- 8	1.710- 1	1.710- 1	8.595- 2	1.126+ 1	7.469+ 1	2.059+ 2	5.369+ 0	9.551- 5		
6.322- 8	2.099- 1	2.099- 1	7.004+ 1	1.124+ 1	5.880+ 1	1.629+ 2	5.187+ 0	9.241- 5		
1.307- 7	2.433- 1	2.435- 1	6.039+ 1	1.121+ 1	4.918+ 1	1.362+ 2	5.031+ 0	8.968- 5		
1.882- 7	2.681- 1	2.683- 1	5.982+ 1	1.117+ 1	4.364+ 1	1.209+ 2	4.919+ 0	8.772- 5		
2.561- 7	2.930- 1	2.932- 1	5.016+ 1	1.113+ 1	3.903+ 1	1.081+ 2	4.807+ 0	8.579- 5		
3.345- 7	3.137- 1	3.140- 1	4.684+ 1	1.108+ 1	3.576+ 1	9.505+ 1	4.716+ 0	8.423- 5		
4.234- 7	3.206- 1	3.208- 1	4.584+ 1	1.103+ 1	3.481+ 1	9.643+ 1	4.691+ 0	8.385- 5		
5.123- 7	3.319- 1	3.322- 1	4.428+ 1	1.090+ 1	3.338+ 1	9.247+ 1	4.657+ 0	8.337- 5		
7.527- 7	3.135- 1	3.137- 1	4.688+ 1	8.431+ 0	3.845+ 1	1.055+ 2	5.067+ 0	9.098- 5		
1.176- 6	2.244- 1	2.244- 1	6.549+ 1	3.325+ 0	6.217+ 1	1.722+ 2	5.884+ 0	1.057- 4		
1.511- 6	2.019- 1	2.019- 2	7.278+ 1	2.226+ 1	7.155+ 2	1.982+ 3	6.074+ 0	1.103- 4		
2.091- 6	3.509- 1	3.510- 2	4.188+ 3	2.764+ 2	3.912+ 3	1.083+ 4	5.770+ 0	1.047- 4		
2.71- 6	2.057- 1	2.061- 1	7.145+ 1	3.766+ 1	3.380+ 1	9.362+ 1	2.922+ 0	5.346- 5		
3.533- 6	4.244- 1	4.266- 1	3.454+ 1	2.518+ 1	9.957+ 0	2.592+ 1	1.674+ 0	3.091- 5		
4.724- 6	5.380- 1	5.394- 1	2.731+ 1	1.942+ 1	7.892+ 0	2.186+ 1	1.785+ 0	3.332- 5		
5.658- 6	1.593- 1	1.594- 1	9.225+ 1	1.612+ 1	7.613+ 1	2.109+ 2	5.098+ 0	9.555- 5		
6.737- 6	5.299- 2	5.300- 2	2.773+ 2	2.490+ 1	2.524+ 2	6.993+ 2	5.623+ 0	1.067- 4		
8.322- 6	7.141- 1	7.144- 1	2.058+ 1	1.753+ 1	3.052+ 0	8.453+ 0	9.162+ 0	1.770- 5		
9.620- 6	9.665- 1	8.712- 1	1.692+ 1	1.444+ 1	2.514+ 0	6.964+ 0	9.179+ 0	1.795- 5		
1.101- 5	1.003- 1	1.003- 1	1.465+ 2	1.546+ 1	1.310+ 2	3.630+ 2	5.526+ 0	1.094- 4		
1.307- 5	2.204- 1	2.206- 1	6.666+ 1	1.231+ 1	5.436+ 1	1.506+ 2	5.038+ 0	1.014- 4		
1.468- 5	3.051- 1	3.054- 1	4.817+ 1	1.598+ 1	3.219+ 1	8.916+ 1	4.128+ 0	8.336- 5		
1.581- 5	1.095- 0	1.098- 0	1.342+ 1	1.211+ 1	1.315+ 0	3.642+ 0	6.052+ 0	1.255- 5		
1.758- 5	1.249- 0	1.253- 0	1.177+ 1	1.053+ 1	1.233+ 0	3.416+ 0	6.474+ 0	1.360- 5		
1.882- 5	1.264+ 0	1.267+ 0	1.163+ 1	7.594+ 0	4.034+ 0	1.117+ 1	2.143+ 0	4.525- 5		
2.075- 5	5.585- 2	5.587- 2	2.631+ 2	3.065+ 1	2.325+ 2	6.440+ 2	5.458+ 0	1.159- 4		
2.277- 5	1.045- 0	1.048- 0	1.406+ 1	1.226+ 1	1.601+ 0	4.988+ 0	7.910+ 1	1.728- 5		
2.417- 5	1.252- 0	1.256- 0	1.174+ 1	1.033+ 1	1.409+ 0	3.904+ 0	7.418+ 1	1.641- 5		
2.561- 5	2.291- 1	2.292- 1	6.147+ 1	1.047+ 1	5.100+ 1	1.413+ 2	5.126+ 0	1.133- 4		
2.710- 5	5.687- 1	5.694- 1	2.584+ 1	9.740+ 0	1.610+ 1	4.460+ 1	3.849+ 0	8.554- 5		
2.862- 5	7.083- 1	7.093- 1	2.075+ 1	7.654+ 0	1.308+ 1	3.624+ 1	3.696+ 0	8.780- 5		
2.940- 5	4.069- 1	4.073- 1	3.611+ 1	1.049+ 1	2.563+ 1	7.099+ 1	4.384+ 0	9.959- 5		
3.099- 5	1.590- 2	1.592- 2	9.245+ 2	4.205+ 2	5.039+ 2	1.336+ 3	3.368+ 0	7.777- 5		
3.345- 5	5.532- 1	5.546- 1	2.657+ 1	1.906+ 1	7.505+ 0	2.079+ 1	1.745+ 0	4.095- 5		
3.601- 5	4.519- 1	4.523- 1	3.253+ 1	1.093+ 1	2.160+ 1	5.983+ 1	4.103+ 0	9.737- 5		
3.665- 5	1.372- 0	1.376- 0	1.071+ 1	7.519+ 0	3.192+ 0	8.841+ 1	1.841+ 0	4.486- 5		
4.048- 5	4.692- 2	4.695- 2	3.332+ 2	5.669+ 1	2.565+ 2	7.105+ 2	5.060+ 0	1.239- 4		
4.254- 5	6.091- 1	6.112- 1	3.816+ 1	1.286+ 1	5.308+ 0	1.470+ 1	1.805+ 0	4.487- 5		
4.329- 5	7.143- 1	7.154- 1	2.057+ 1	6.748+ 0	1.183+ 1	3.276+ 1	3.551+ 0	9.929- 5		
4.619- 5	1.725- 0	1.730- 0	8.517+ 0	6.512+ 0	2.005+ 0	5.553+ 0	1.454+ 0	3.720- 5		
4.717- 5	6.086- 1	6.089- 1	2.415+ 1	3.732+ 0	2.041+ 1	5.655+ 1	5.223+ 0	1.333- 4		
4.918- 5	4.105- 2	4.109- 2	3.579+ 2	6.097+ 1	2.770+ 2	7.672+ 2	4.780+ 0	1.240- 4		
5.123- 5	2.315- 2	2.319- 2	6.348+ 2	2.949+ 2	3.399+ 2	9.415+ 2	3.308+ 0	8.658- 5		
5.332- 5	1.748- 1	1.749- 1	1.050+ 1	2.421+ 1	8.478+ 1	2.342+ 2	4.606+ 0	1.282- 4		
5.654- 5	1.141+ 0	1.144+ 0	2.884+ 1	7.068+ 0	5.807+ 0	1.609+ 1	2.787+ 0	7.559- 5		
5.763- 5	6.408- 2	6.415- 2	2.293+ 2	6.795+ 1	1.614+ 2	4.470+ 2	4.347+ 0	1.185- 4		
6.097- 5	1.954+ 1	1.956+ 1	7.519+ 1	1.793+ 1	5.726+ 1	1.586+ 2	4.705+ 0	1.316- 4		
6.325- 5	7.603- 1	7.622- 1	1.933+ 1	1.339+ 1	5.939+ 0	1.845+ 1	1.898+ 0	5.372- 5		
6.557- 5	8.519- 2	8.525- 2	1.725+ 2	3.170+ 1	1.408+ 2	3.900+ 2	5.043+ 0	1.439- 4		
6.674- 5	2.783- 1	2.787- 1	5.291+ 1	2.268+ 1	3.013+ 1	8.346+ 1	3.525+ 0	1.010- 4		
7.034- 5	1.204+ 0	1.209+ 0	1.220+ 1	1.169+ 1	5.131+ 1	1.121+ 2	2.598+ 0	8.322- 5		
7.155- 5	1.727- 1	1.729- 1	8.908+ 1	2.414+ 1	6.095+ 1	1.688+ 2	4.426+ 0	1.322- 4		
7.527- 5	9.464- 1	9.494- 1	1.553+ 1	1.361+ 1	1.917+ 0	5.309+ 0	7.625+ 1	2.361- 5		
7.780- 5	1.307+ 0	1.312+ 0	1.124+ 1	1.068+ 1	5.646+ 1	1.564+ 0	3.103+ 1	1.024- 5		
7.908- 5	2.123+ 1	2.125+ 1	6.922+ 1	1.525+ 1	5.397+ 1	1.495+ 2	4.817+ 0	1.487- 4		
8.167- 5	1.156+ 0	1.160+ 0	1.271+ 1	1.176+ 1	9.480+ 1	2.625+ 0	4.609+ 0	1.515- 5		
8.431- 5	2.819- 1	2.822- 1	5.213+ 1	1.435+ 1	3.778+ 1	1.046+ 2	4.477+ 0	1.428- 4		
8.834- 5	6.588- 1	6.601- 1	2.231+ 1	1.171+ 1	1.060+ 1	2.935+ 1	2.936+ 0	9.489- 5		

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ENDL 175 Group Neutron Constants

75-Re-185

ATOMIC WEIGHT 1.04954 2		DENSITY 2.0899 1 GRAMS/CC									
ENERGY MEV	HFP (CM)		CROSS SECTION (BARNS)							ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
9.108 - 5	6.555 - 1	6.555 - 1	2.208 + 1	9.951 + 1	1.213 + 1		3.360 + 1	3.394 + 1	1.119 - 4		
9.306 - 5	2.977 - 1	2.980 - 1	4.937 + 1	1.394 + 1	3.543 + 1		9.813 + 1	4.433 + 1	1.474 - 4		
9.658 - 5	1.276 + 0	1.279 + 0	1.152 + 1	8.753 + 0	2.760 + 0		7.647 + 0	1.480 + 0	5.040 - 5		
9.911 - 5	1.075 - 1	1.077 - 1	1.357 + 2	5.271 + 1	8.395 + 1		2.325 + 2	3.784 + 1	1.288 - 4		
1.025 - 4	1.335 - 1	1.338 - 1	1.101 + 2	5.678 + 1	5.328 + 1		1.475 + 2	2.991 + 1	1.050 - 4		
1.099 - 4	1.271 - 1	1.273 - 1	1.156 + 2	5.714 + 1	5.849 + 1		1.620 + 2	3.125 + 1	1.135 - 4		
1.176 - 4	1.248 - 1	1.250 - 1	1.177 + 2	5.750 + 1	6.024 + 1		1.669 + 2	3.161 + 1	1.188 - 4		
1.256 - 4	1.272 - 1	1.275 - 1	1.155 + 2	5.787 + 1	5.762 + 1		1.596 + 2	3.082 + 1	1.199 - 4		
1.338 - 4	1.297 - 1	1.299 - 1	1.133 + 2	5.801 + 1	5.529 + 1		1.532 + 2	3.015 + 1	1.210 - 4		
1.406 - 4	1.332 - 1	1.335 - 1	1.103 + 2	5.788 + 1	5.303 + 1		1.469 + 2	2.970 + 1	1.234 - 4		
1.511 - 4	1.374 - 1	1.376 - 1	1.070 + 2	5.638 + 1	5.059 + 1		1.401 + 2	2.932 + 1	1.260 - 4		
1.601 - 4	1.411 - 1	1.413 - 1	1.042 + 2	5.557 + 1	4.861 + 1		1.347 + 2	2.883 + 1	1.287 - 4		
1.694 - 4	1.448 - 1	1.451 - 1	1.015 + 2	5.477 + 1	4.670 + 1		1.294 + 2	2.843 + 1	1.313 - 4		
1.789 - 4	1.483 - 1	1.486 - 1	9.909 + 1	5.408 + 1	4.501 + 1		1.247 + 2	2.806 + 1	1.340 - 4		
1.897 - 4	1.520 - 1	1.523 - 1	9.688 + 1	5.339 + 1	4.329 + 1		1.199 + 2	2.765 + 1	1.366 - 4		
1.988 - 4	1.557 - 1	1.560 - 1	9.438 + 1	5.269 + 1	4.170 + 1		1.155 + 2	2.730 + 1	1.394 - 4		
2.091 - 4	1.600 - 1	1.604 - 1	8.745 + 1	5.043 + 1	3.703 + 1		1.026 + 2	2.616 + 1	1.493 - 4		
2.741 - 4	1.958 - 1	1.962 - 1	7.911 + 1	4.761 + 1	3.150 + 1		8.725 + 1	2.450 + 1	1.644 - 4		
3.267 - 4	1.999 - 1	2.003 - 1	7.352 + 1	4.563 + 1	2.789 + 1		7.724 + 1	2.343 + 1	1.774 - 4		
3.811 - 4	2.170 - 1	2.175 - 1	6.772 + 1	4.339 + 1	2.433 + 1		6.739 + 1	2.220 + 1	1.941 - 4		
4.704 - 4	2.305 - 1	2.311 - 1	6.374 + 1	4.175 + 1	2.200 + 1		6.094 + 1	2.132 + 1	2.077 - 4		
4.991 - 4	2.402 - 1	2.408 - 1	6.118 + 1	4.066 + 1	2.052 + 1		5.684 + 1	2.072 + 1	2.181 - 4		
5.659 - 4	2.501 - 1	2.507 - 1	5.875 + 1	3.965 + 1	1.910 + 1		5.292 + 1	2.005 + 1	2.291 - 4		
6.042 - 4	2.565 - 1	2.572 - 1	5.729 + 1	3.905 + 1	1.824 + 1		5.052 + 1	1.967 + 1	2.360 - 4		
6.367 - 4	2.662 - 1	2.669 - 1	5.520 + 1	3.810 + 1	1.710 + 1		4.738 + 1	1.914 + 1	2.472 - 4		
7.156 - 4	2.834 - 1	2.841 - 1	5.185 + 1	3.659 + 1	1.526 + 1		4.228 + 1	1.819 + 1	2.643 - 4		
8.322 - 4	3.068 - 1	3.076 - 1	4.790 + 1	3.538 + 1	1.253 + 1		3.471 + 1	1.616 + 1	2.629 - 4		
9.177 - 4	3.390 - 1	3.399 - 1	4.335 + 1	3.408 + 1	9.268 + 0		2.569 + 1	1.321 + 1	2.410 - 4		
1.058 - 3	3.694 - 1	3.705 - 1	3.979 + 1	3.242 + 1	7.370 + 0		2.042 + 1	1.145 + 1	2.481 - 4		
1.307 - 3	3.976 - 1	3.988 - 1	3.696 + 1	3.050 + 1	6.460 + 0		1.790 + 1	1.000 + 1	2.625 - 4		
1.581 - 3	4.244 - 1	4.258 - 1	3.463 + 1	2.890 + 1	5.730 + 0		1.588 + 1	1.023 + 1	3.182 - 4		
1.882 - 3	4.500 - 1	4.516 - 1	3.266 + 1	2.751 + 1	5.146 + 0		1.426 + 1	9.737 - 1	3.559 - 4		
2.208 - 3	4.741 - 1	4.759 - 1	3.100 + 1	2.631 + 1	4.692 + 0		1.300 + 1	9.355 - 1	3.971 - 4		
2.561 - 3	4.982 - 1	5.002 - 1	2.950 + 1	2.519 + 1	4.311 + 0		1.195 + 1	9.033 - 1	4.408 - 4		
2.940 - 3	5.209 - 1	5.231 - 1	2.821 + 1	2.423 + 1	3.983 + 0		1.104 + 1	8.776 - 1	4.854 - 4		
3.345 - 3	5.439 - 1	5.464 - 1	2.702 + 1	2.332 + 1	3.697 + 0		1.025 + 1	8.459 - 1	5.324 - 4		
3.777 - 3	5.653 - 1	5.680 - 1	2.600 + 1	2.255 + 1	3.447 + 0		9.555 + 0	8.198 - 1	5.798 - 4		
4.234 - 3	6.083 - 1	6.114 - 1	2.416 + 1	2.113 + 1	3.032 + 0		8.406 + 0	7.761 - 1	6.817 - 4		
5.733 - 3	6.684 - 1	6.726 - 1	2.199 + 1	1.943 + 1	2.558 + 0		7.094 + 0	7.197 - 1	8.419 - 4		
7.527 - 3	7.345 - 1	7.401 - 1	2.001 + 1	1.785 + 1	2.155 + 0		5.977 + 0	6.663 - 1	1.044 - 3		
1.025 - 2	8.219 - 1	8.300 - 1	1.789 + 1	1.613 + 1	1.751 + 0		4.860 + 0	6.064 - 1	1.358 - 3		
1.511 - 2	9.184 - 1	9.314 - 1	1.600 + 1	1.458 + 1	1.425 + 0		3.952 + 0	5.511 - 1	1.768 - 3		
2.091 - 2	9.988 - 1	1.018 + 0	1.471 + 1	1.350 + 1	1.210 + 0		3.354 + 0	5.101 - 1	2.170 - 3		
2.645 - 2	1.069 + 0	1.095 + 0	1.374 + 1	1.268 + 1	1.063 + 0		2.958 + 0	4.803 - 1	2.563 - 3		
3.267 - 2	1.138 + 0	1.173 + 0	1.291 + 1	1.196 + 1	9.522 - 1		2.653 + 0	4.586 - 1	3.000 - 3		
3.953 - 2	1.202 + 0	1.247 + 0	1.223 + 1	1.136 + 1	8.636 - 1		2.409 + 0	4.398 - 1	3.460 - 3		
4.704 - 2	1.274 + 0	1.332 + 0	1.154 + 1	1.075 + 1	7.802 - 1		2.179 + 0	4.219 - 1	4.021 - 3		
5.761 - 2	1.358 + 0	1.431 + 0	1.065 + 1	1.014 + 1	7.012 - 1		1.962 + 0	4.041 - 1	4.709 - 3		
7.002 - 2	1.434 + 0	1.532 + 0	1.025 + 1	9.610 + 0	6.354 - 1		1.782 + 0	3.887 - 1	5.446 - 3		
8.322 - 2	1.514 + 0	1.637 + 0	9.708 + 0	9.129 + 0	5.796 - 1		1.629 + 0	3.754 - 1	6.250 - 3		
9.891 - 2	1.630 + 0	1.789 + 0	9.015 + 0	8.494 + 0	5.176 - 1	3.151 - 3	1.460 + 0	3.624 - 1	7.584 - 3		
1.307 - 1	1.763 + 0	1.998 + 0	8.242 + 0	7.487 + 0	4.487 - 1	3.061 - 1	1.274 + 0	3.513 - 1	9.784 - 3		
1.920 - 1	1.888 + 0	2.195 + 0	7.784 + 0	6.852 + 0	4.041 - 1	4.283 - 1	1.154 + 0	3.408 - 1	1.168 - 2		
2.079 - 1	1.954 + 0	2.311 + 0	7.520 + 0	6.678 + 0	3.782 - 1	4.646 - 1	1.085 + 0	3.341 - 1	1.306 - 2		
2.417 - 1	2.018 + 0	2.426 + 0	7.281 + 0	6.430 + 0	3.555 - 1	4.953 - 1	1.049 + 0	3.266 - 1	1.450 - 2		
2.710 - 1	2.060 + 0	2.512 + 0	7.134 + 0	6.272 + 0	3.398 - 1	5.225 - 1	2.798 + 0	3.243 - 1	1.562 - 2		
2.940 - 1	2.112 + 0	2.603 + 0	6.958 + 0	6.070 + 0	3.243 - 1	5.638 - 1	2.903 + 0	3.221 - 1	1.770 - 2		
3.345 - 1	2.153 + 0	2.693 + 0	6.826 + 0	5.886 + 0	3.079 - 1	6.325 - 1	3.041 + 0	3.179 - 1	1.672 - 2		
3.777 - 1	2.193 + 0	2.784 + 0	6.700 + 0	5.700 + 0	2.934 - 1	7.059 - 1	3.188 + 0	3.179 - 1	2.040 - 2		
4.234 - 1	2.227 + 0	2.862 + 0	6.598 + 0	5.506 + 0	2.794 - 1	8.167 - 1	3.411 + 0	3.166 - 1	2.275 - 2		
4.723 - 1	2.257 + 0	2.965 + 0	6.511 + 0	5.399 + 0	2.634 - 1	9.655 - 1	3.816 + 0	3.179 - 1	2.535 - 2		
6.325 - 1	2.277 + 0	3.095 + 0	6.454 + 0	5.096 + 0	2.343 - 1	1.124 + 0	4.313 + 0	3.252 - 1	2.943 - 2		

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ENDL 175 Group Neutron Constants

75-Re-185

ATOMIC WEIGHT 1.6945E-2		DENSITY 2.0899E+1 GRAMS/CC									
ENERGY MEV	HFP	TRANSPORT		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)			
		TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.		TOTAL	LOCAL		
2.276E+0	3.189E+0	6.456E+0	4.887E+0	2.187E+0	1.350E+0	4.831E+0	3.440E+0	3.246E+0			
2.247E+0	3.243E+0	6.541E+0	4.703E+0	1.936E+0	1.645E+0	5.387E+0	3.636E+0	3.335E+0			
2.238E+0	3.365E+0	6.565E+0	4.595E+0	1.639E+0	1.806E+0	5.695E+0	3.763E+0	3.304E+0			
2.240E+0	3.505E+0	6.559E+0	4.522E+0	1.435E+0	1.894E+0	5.869E+0	3.962E+0	3.352E+0			
2.213E+0	3.588E+0	6.604E+0	4.526E+0	1.266E+0	1.988E+0	6.054E+0	4.255E+0	3.308E+0			
2.186E+0	3.662E+0	6.715E+0	4.542E+0	1.081E+0	2.066E+0	6.251E+0	4.535E+0	3.267E+0			
2.165E+0	3.702E+0	6.789E+0	4.558E+0	9.011E-01	2.140E+0	6.460E+0	4.861E+0	3.154E+0			
2.141E+0	3.677E+0	6.865E+0	4.576E+0	7.561E-01	2.213E+0	6.657E+0	5.272E+0	3.046E+0			
2.121E+0	3.657E+0	6.928E+0	4.595E+0	6.218E-01	2.270E+0	6.682E+0	5.716E+0	2.911E+0			
2.101E+0	3.655E+0	6.996E+0	4.614E+0	5.125E-01	2.331E+0	6.669E+0	6.298E+0	2.793E+0			
2.101E+0	3.685E+0	6.996E+0	4.584E+0	4.298E-01	2.388E+0	6.656E+0	6.884E+0	2.712E+0			
2.115E+0	3.739E+0	6.948E+0	4.562E+0	3.604E-01	2.450E+0	6.642E+0	7.707E+0	2.652E+0			
2.139E+0	3.814E+0	6.871E+0	4.523E+0	3.058E-01	2.518E+0	6.627E+0	8.733E+0	2.629E+0			
2.170E+0	3.885E+0	6.772E+0	4.461E+0	2.665E-01	2.585E+0	6.612E+0	9.900E+0	2.636E+0			
2.205E+0	3.959E+0	6.664E+0	4.392E+0	2.334E-01	2.648E+0	6.595E+0	1.122E+01	2.659E+0			
2.242E+0	4.034E+0	6.554E+0	4.326E+0	2.067E-01	2.707E+0	6.588E+0	1.253E+01	2.692E+0			
2.281E+0	4.083E+0	6.434E+0	4.245E+0	1.828E-01	2.770E+0	6.742E+0	1.417E+01	2.741E+0			
2.331E+0	4.115E+0	6.300E+0	4.159E+0	1.613E-01	2.829E+0	6.966E+0	1.584E+01	2.808E+0			
2.389E+0	4.157E+0	6.164E+0	4.058E+0	1.444E-01	2.851E+0	7.177E+0	1.756E+01	2.891E+0			
2.442E+0	4.191E+0	6.015E+0	3.930E+0	1.294E-01	2.872E+0	7.398E+0	1.944E+01	2.969E+0			
2.507E+0	4.234E+0	5.862E+0	3.792E+0	1.162E-01	2.888E+0	7.619E+0	2.149E+01	3.101E+0			
2.574E+0	4.295E+0	5.709E+0	3.630E+0	1.046E-01	2.869E+0	7.847E+0	2.344E+01	3.239E+0			
2.636E+0	4.347E+0	5.572E+0	3.475E+0	9.687E-02	2.845E+0	8.029E+0	2.537E+01	3.409E+0			
2.692E+0	4.394E+0	5.447E+0	3.300E+0	9.169E-02	2.821E+0	8.168E+0	2.723E+01	3.591E+0			
2.768E+0	4.449E+0	5.310E+0	3.100E+0	8.652E-02	2.795E+0	8.326E+0	2.940E+01	3.805E+0			
2.827E+0	4.497E+0	5.198E+0	2.923E+0	8.175E-02	2.767E+0	8.483E+0	3.154E+01	4.018E+0			
2.880E+0	4.539E+0	5.103E+0	2.754E+0	7.772E-02	2.741E+0	8.628E+0	3.352E+01	4.213E+0			
2.914E+0	4.565E+0	5.044E+0	2.584E+0	7.407E-02	2.723E+0	8.747E+0	3.428E+01	4.388E+0			
2.938E+0	4.586E+0	5.003E+0	2.427E+0	7.023E-02	2.709E+0	8.815E+0	3.300E+01	4.567E+0			
2.959E+0	4.606E+0	4.967E+0	2.264E+0	6.639E-02	2.696E+0	8.879E+0	3.100E+01	4.770E+0			
2.962E+0	4.627E+0	4.902E+0	2.271E+0	6.377E-02	2.684E+0	8.945E+0	2.912E+01	4.920E+0			
2.961E+0	4.661E+0	4.962E+0	2.285E+0	6.074E-02	2.671E+0	9.008E+0	2.773E+01	5.073E+0			
2.953E+0	4.696E+0	4.976E+0	2.316E+0	5.805E-02	2.655E+0	9.015E+0	2.659E+01	5.192E+0			
2.943E+0	4.735E+0	4.994E+0	2.352E+0	5.564E-02	2.637E+0	9.068E+0	2.581E+01	5.294E+0			
2.927E+0	4.776E+0	5.021E+0	2.400E+0	5.327E-02	2.616E+0	9.169E+0	2.552E+01	5.395E+0			
2.908E+0	4.822E+0	5.053E+0	2.456E+0	5.107E-02	2.592E+0	9.347E+0	2.539E+01	5.489E+0			
2.890E+0	4.865E+0	5.085E+0	2.510E+0	4.904E-02	2.570E+0	9.325E+0	2.554E+01	5.576E+0			
2.869E+0	4.912E+0	5.122E+0	2.571E+0	4.697E-02	2.546E+0	9.224E+0	2.611E+01	5.658E+0			
2.846E+0	4.958E+0	5.163E+0	2.631E+0	4.514E-02	2.527E+0	9.126E+0	2.694E+01	5.723E+0			
2.829E+0	5.004E+0	5.194E+0	2.676E+0	4.380E-02	2.514E+0	9.052E+0	2.765E+01	5.769E+0			
2.817E+0	5.030E+0	5.217E+0	2.710E+0	4.290E-02	2.503E+0	9.019E+0	2.822E+01	5.803E+0			
2.803E+0	5.060E+0	5.244E+0	2.741E+0	4.208E-02	2.499E+0	9.131E+0	2.880E+01	5.834E+0			
2.786E+0	5.082E+0	5.271E+0	2.772E+0	4.126E-02	2.495E+0	9.267E+0	2.937E+01	5.864E+0			
2.770E+0	5.106E+0	5.305E+0	2.813E+0	4.023E-02	2.488E+0	9.456E+0	2.979E+01	5.913E+0			
2.765E+0	5.151E+0	5.315E+0	2.833E+0	3.881E-02	2.478E+0	9.651E+0	3.047E+01	6.053E+0			
2.765E+0	5.169E+0	5.314E+0	2.844E+0	3.743E-02	2.466E+0	9.844E+0	3.125E+01	6.223E+0			
2.765E+0	5.187E+0	5.314E+0	2.856E+0	3.610E-02	2.455E+0	9.939E+0	3.196E+01	6.394E+0			
2.765E+0	5.206E+0	5.314E+0	2.867E+0	3.487E-02	2.443E+0	9.939E+0	3.259E+01	6.568E+0			
2.766E+0	5.266E+0	5.314E+0	2.879E+0	3.368E-02	2.432E+0	9.930E+0	3.333E+01	6.744E+0			
2.766E+0	5.245E+0	5.313E+0	2.891E+0	3.256E-02	2.419E+0	9.916E+0	3.420E+01	6.921E+0			
2.766E+0	5.276E+0	5.313E+0	2.904E+0	3.100E-02	2.401E+0	9.897E+0	3.548E+01	7.188E+0			
RESONANCE INTEGRALS				2.107E+03	4.213E+02	1.677E+03	8.903E+00	4.671E+03			
MAXWELLIAN AVERAGES				1.170E+02	1.127E+01	1.057E+02		2.928E+02			
1/E AVERAGES				1.204E+02	2.407E+01	9.579E+01	5.066E-01	2.668E+02			
FISSION AVERAGES				6.741E+00	4.697E+00	1.401E+01	1.903E+00	5.702E+00			
FUSION AVERAGES				5.226E+00	2.717E+00	4.272E+03	2.504E+00	8.110E+00			

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ATOMIC HEIGHT 1.6896+2		CROSS SECTION (BARNS)					DENSITY 2.1126+1 GRAMS/CC		
ENERGY		HFP (CM)		TOTAL		ELASTIC		ABSORPTN REMAINDER GAM-PROD.	
MEV	TOTAL TRANSPORT	TOTAL		ELASTIC		ABSORPTN REMAINDER		GAM-PROD.	
		TOTAL		ELASTIC		ABSORPTN REMAINDER		GAM-PROD.	
		TOTAL		ELASTIC		ABSORPTN REMAINDER		GAM-PROD.	
1.307-9	6.090-2	6.091-2	2.413+2	8.000+0	2.333+2	6.136+2	5.678+0	9.946-5	
5.227-9	1.201-1	1.201-1	1.224+2	8.000+0	2.144+2	5.488+2	5.488+0	9.180-5	
2.091-8	1.793-1	1.794-1	8.185+1	8.000+0	7.395+1	1.945+2	5.300+0	8.884-5	
3.267-8	2.195-1	2.196-1	1.609+1	8.000+0	5.895+1	1.550+2	5.170+0	8.651-5	
4.704-8	2.794-1	2.795-1	5.260+1	8.000+0	4.460+1	1.173+2	4.980+0	6.233-5	
6.322-8	3.622-1	3.624-1	4.057+1	8.000+0	3.257+1	8.567+1	4.715+0	7.893-5	
1.307-7	4.500-1	4.504-1	3.265+1	8.000+0	2.465+1	6.484+1	4.434+0	7.427-5	
1.682-7	5.338-1	5.343-1	2.753+1	8.000+0	1.953+1	5.137+1	4.166+0	6.983-5	
2.951-7	6.123-1	6.130-1	2.400+1	8.000+0	1.600+1	4.208+1	3.915+0	6.567-5	
3.345-7	6.889-1	6.899-1	2.133+1	8.000+0	1.333+1	3.506+1	3.670+0	6.181-5	
4.23-7	7.654-1	7.665-1	1.920+1	8.000+0	1.120+1	2.906+1	3.426+0	5.756-5	
5.123-7	8.761-1	8.775-1	1.677+1	8.000+0	8.774+0	2.308+1	3.072+0	5.170-5	
7.527-7	1.046+0	1.048+0	1.405+1	8.000+0	6.052+0	1.592+1	2.529+0	4.271-5	
1.176-6	1.188+0	1.191+0	1.237+1	8.000+0	4.370+0	1.149+1	2.075+0	3.518-5	
1.511-6	1.300+0	1.303+0	1.131+1	8.000+0	3.308+0	8.701+0	1.718+0	2.926-5	
2.091-6	1.381+0	1.384+0	1.064+1	8.000+0	2.648+0	6.956+0	1.459+0	2.502-5	
2.74-6	1.369+0	1.372+0	1.074+1	8.000+0	2.736+0	7.197+0	1.497+0	2.586-5	
3.533-6	9.462-2	9.464-2	1.553+2	9.030+0	1.463+2	3.847+2	5.532+0	9.663-5	
4.704-6	1.115+0	1.117+0	1.318+1	7.995+0	5.288+0	1.391+1	2.356+0	4.142-5	
5.658-6	1.745+0	1.750+0	8.423+0	7.199+0	1.224+0	3.220+0	8.537+0	1.522-5	
6.737-6	1.903+0	1.909+0	7.721+0	6.758+0	9.622+0	2.531+0	7.319+0	1.324-5	
8.322-6	1.895+0	1.901+0	7.755+0	6.282+0	1.472+0	3.872+0	1.115+0	2.043-5	
9.620-6	4.420+0	4.422+0	3.325+1	5.422+0	2.763+1	7.319+1	4.315+0	9.121-5	
1.101-5	8.247-2	8.250-2	1.782+2	1.501+1	1.632+2	4.292+2	5.378+0	1.001-4	
1.307-5	1.842+0	1.847+0	7.979+0	6.787+0	1.192+0	3.135+0	8.775+0	1.686-5	
1.468-5	1.516+0	1.519+0	9.695+0	5.54+0	3.742+0	9.840+0	2.267+0	4.394-5	
1.581-5	1.197+0	1.197+0	1.226+2	8.343+0	1.144+2	3.010+2	5.474+0	1.072-4	
1.758-5	8.940+0	2.894+2	1.644+2	1.382+1	1.506+2	3.960+2	5.379+0	1.064-4	
1.882-5	1.500+0	1.505+0	9.794+0	7.603+0	2.191+0	5.763+0	1.314+0	2.643-5	
2.075-5	2.025+0	2.032+0	7.268+0	6.777+0	4.808+0	1.284+0	3.991+0	8.151-5	
2.277-5	2.154+0	2.161+0	6.824+0	6.365+0	4.582+0	1.205+0	3.944+0	8.399-6	
2.417-5	1.035+0	1.037+0	1.419+1	3.300+0	7.893+0	2.076+1	3.266+0	6.845-5	
2.561-5	2.226+0	2.233+0	6.603+0	6.076+0	5.267+0	1.385+0	4.685+0	1.010-5	
2.710-5	2.296+0	2.303+0	6.401+0	5.701+0	6.397+0	1.840+0	6.420+0	1.404-5	
2.862-5	2.292+0	2.289+0	6.440+0	5.310+0	1.130+0	2.972+0	1.331+0	2.256-5	
2.940-5	1.824+0	1.828+0	6.056+0	4.764+0	3.292+0	8.657+0	2.400+0	5.268-5	
3.099-5	5.498-2	5.501-2	2.673+2	4.377+1	2.235+2	5.879+2	4.911+0	1.088-4	
3.345-5	4.144+0	4.143+1	3.549+1	7.720+0	2.777+1	7.305+1	4.596+0	1.033-4	
3.601-5	1.672+0	1.676+0	7.852+0	4.890+0	2.962+0	7.790+0	2.216+0	5.149-5	
3.866-5	4.047+0	4.046+2	3.635+2	8.322+1	2.803+2	7.371+2	4.528+0	1.060-4	
4.040-5	1.259+0	1.262+0	1.168+1	9.503+0	2.174+0	5.717+0	1.093+0	2.626-5	
4.234-5	1.726+0	1.732+0	9.512+0	7.693+0	8.192+0	2.154+0	5.652+0	1.396-5	
4.329-5	2.029+0	2.036+0	7.244+0	6.429+0	8.136+0	2.140+0	6.596+0	1.648-5	
4.619-5	9.617+1	9.627+1	1.528+1	4.554+0	1.073+1	2.821+1	4.123+0	1.018-4	
4.717-5	1.267+1	1.268+1	1.142+2	1.868+1	9.550+1	2.512+2	4.912+0	1.218-4	
4.918-5	1.978+0	1.964+0	7.429+0	6.595+0	8.337+1	2.193+0	6.591+0	1.710-5	
5.123-5	7.253+1	7.261+1	2.026+1	6.301+1	1.396+1	3.672+1	4.047+0	1.042-4	
5.332-5	2.052+1	2.053+1	7.162+1	1.156+1	6.006+1	1.580+2	4.925+0	1.271-4	
5.654-5	2.483+0	2.490+0	5.919+0	4.555+0	1.363+0	1.588+0	1.353+0	3.618-5	
5.763-5	9.877-2	9.886-2	1.488+2	3.782+1	1.110+2	2.918+2	4.380+0	1.182-4	
6.097-5	5.585-2	5.591-2	2.631+2	8.411+1	1.790+2	4.709+2	3.995+0	1.084-4	
6.325-5	3.742+1	3.745+1	3.927+1	7.800+0	3.147+1	8.276+1	4.706+0	1.296-4	
6.557-5	2.252+0	2.258+0	6.526+0	4.486+0	1.741+0	4.579+0	1.567+0	4.727-5	
6.674-5	6.725-2	6.733-2	2.185+2	7.348+1	4.50+2	3.814+2	3.898+0	1.112-4	
7.034-5	1.027+0	1.029+0	1.431+1	6.442+0	7.858+0	2.059+1	3.229+0	9.308-5	
7.145-5	2.032+0	2.037+0	5.919+0	3.668+0	3.639+0	9.571+0	2.957+0	8.696-5	
7.527-5	2.309+1	2.314+1	6.366+1	3.999+1	2.367+1	6.225+1	2.184+0	6.503-5	
7.780-5	1.963+1	1.965+1	7.486+1	1.773+1	5.713+1	1.503+2	4.482+0	1.347-4	
7.908-5	4.489+1	4.497+1	3.274+1	1.667+1	1.607+1	4.226+1	2.883+0	8.737-5	
8.167-5	1.206+0	1.210+0	1.219+1	1.057+1	1.620+0	4.261+0	7.809+0	2.484-5	
8.431-5	1.335+0	1.336+1	1.101+2	2.388+1	8.622+1	2.268+2	4.599+0	1.442-4	
8.834-5	1.053+0	1.056+0	1.396+1	1.266+1	1.304+0	3.428+0	5.484+0	1.834-5	

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ATOMIC WEIGHT 1.8556 ± 2		DENSITY 2.1126 ± 1 GRAMS/CC								
ENERGY		MFP (CM)		CROSS SECTION (BARNs)					ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOC. L.	
9.108-5	3.021-1	3.027-1	4.864+1	2.744+1	2.120+1			5.576+1	7.560+0	8.341-5
9.386-5	1.145-1	1.147-1	1.284+2	6.998+1	5.840+1			1.535+2	2.672+0	8.834-5
9.668-5	1.130-1	1.140-1	1.291+2	6.987+1	5.926+1			1.559+2	2.695+0	9.008-5
1.011-5	1.129-1	1.131-1	1.302+2	6.973+1	6.042+1			1.589+2	2.726+0	9.247-5
1.025-4	1.102-1	1.114-1	1.322+2	6.944+1	6.275+1			1.650+2	2.788+0	9.736-5
1.059-4	1.120-1	1.122-1	1.312+2	6.907+1	6.218+1			1.635+2	2.763+0	1.006-4
1.176-4	1.151-1	1.153-1	1.277+2	6.839+1	5.930+1			1.560+2	2.727+0	1.024-4
1.256-4	1.186-1	1.189-1	1.239+2	6.735+1	5.654+1			1.487+2	2.680+0	1.044-4
1.338-4	1.217-1	1.220-1	1.207+2	6.638+1	5.435+1			1.429+2	2.644+0	1.064-4
1.406-4	1.254-1	1.256-1	1.172+2	6.507+1	5.194+1			1.366+2	2.603+0	1.086-4
1.511-4	1.293-1	1.295-1	1.137+2	6.408+1	4.960+1			1.304+2	2.562+0	1.113-4
1.601-4	1.327-1	1.330-1	1.107+2	6.281+1	4.754+1			1.250+2	2.522+0	1.135-4
1.694-4	1.360-1	1.363-1	1.080+2	6.229+1	4.575+1			1.203+2	2.487+0	1.160-4
1.789-4	1.396-1	1.399-1	1.053+2	6.130+1	4.394+1			1.156+2	2.451+0	1.184-4
1.887-4	1.432-1	1.435-1	1.026+2	6.041+1	4.222+1			1.110+2	2.416+0	1.209-4
1.988-4	1.466-1	1.469-1	1.003+2	5.954+1	4.071+1			1.071+2	2.385+0	1.235-4
2.091-4	1.502-1	1.505-1	9.269+1	5.688+1	3.801+1			9.471+1	2.277+0	1.324-4
2.741-4	1.751-1	1.755-1	8.384+1	5.435+1	3.052+1			8.026+1	2.135+0	1.461-4
3.267-4	1.886-1	1.891-1	7.791+1	5.195+1	2.697+1			7.093+1	2.033+0	1.591-4
3.811-4	2.049-1	2.054-1	7.172+1	4.827+1	2.344+1			6.165+1	1.920+0	1.732-4
4.704-4	2.173-1	2.179-1	6.762+1	4.643+1	2.119+1			5.573+1	1.841+0	1.854-4
4.991-4	2.265-1	2.270-1	6.489+1	4.518+1	1.971+1			5.183+1	1.784+0	1.944-4
5.658-4	2.358-1	2.364-1	6.233+1	4.403+1	1.830+1			4.813+1	1.724+0	2.040-4
6.042-4	2.418-1	2.425-1	6.076+1	4.327+1	1.750+1			4.603+1	1.691+0	2.107-4
6.357-4	2.515-1	2.522-1	5.843+1	4.206+1	1.637+1			4.305+1	1.645+0	2.209-4
7.156-4	2.642-1	2.649-1	5.562+1	4.038+1	1.524+1			4.008+1	1.609+0	2.437-4
8.322-4	2.721-1	2.728-1	5.401+1	3.890+1	1.511+1			3.975+1	1.643+0	2.776-4
9.177-4	2.808-1	2.815-1	5.234+1	3.742+1	1.492+1			3.925+1	1.675+0	3.156-4
1.058-3	2.955-1	2.963-1	4.906+1	3.543+1	1.362+1			3.585+1	1.632+0	3.625-4
1.307-3	3.236-1	3.245-1	4.541+1	3.329+1	1.212+1			3.189+1	1.561+0	4.202-4
1.561-3	3.472-1	3.482-1	4.233+1	3.143+1	1.090+1			2.867+1	1.513+0	4.817-4
1.862-3	3.704-1	3.716-1	3.957+1	2.982+1	9.847+0			2.591+1	1.458+0	5.443-4
2.208-3	3.941-1	3.953-1	3.728+1	2.847+1	9.817+0			2.320+1	1.389+0	6.028-4
2.561-3	4.184-1	4.203-1	3.512+1	2.717+1	7.948+0			2.091+1	1.330+0	6.634-4
2.940-3	4.415-1	4.433-1	3.328+1	2.607+1	7.212+0			1.898+1	1.273+0	7.241-4
3.345-3	4.642-1	4.661-1	3.166+1	2.508+1	6.584+0			1.732+1	1.222+0	7.964-4
3.777-3	4.895-1	4.886-1	3.021+1	2.417+1	6.043+0			1.580+1	1.176+0	8.801-4
4.234-3	5.233-1	5.318-1	2.776+1	2.280+1	5.166+0			1.368+1	1.094+0	9.814-4
5.763-3	5.907-1	5.942-1	2.488+1	2.058+1	4.194+0			1.104+1	9.912+0	1.184-3
7.527-3	6.580-1	6.627-1	2.233+1	1.894+1	3.398+0			8.950+0	8.949+0	1.432-3
1.024-2	7.491-1	7.561-1	1.962+1	1.702+1	2.593+0			6.834+0	7.781+0	1.779-3
1.511-2	8.511-1	8.627-1	1.727+1	1.531+1	1.958+0			5.165+0	6.682+0	2.196-3
2.091-2	9.360-1	9.537-1	1.570+1	1.413+1	1.573+0			4.154+0	5.910+0	2.584-3
2.846-2	1.009+0	1.033+0	1.456+1	1.322+1	1.347+0			3.561+0	5.463+0	3.001-3
3.267-2	1.079+0	1.112+0	1.361+1	1.243+1	1.181+0			3.124+0	5.127+0	3.456-3
3.953-2	1.143+0	1.187+0	1.284+1	1.178+1	1.060+0			2.806+0	4.888+0	3.964-3
4.704-2	1.216+0	1.270+0	1.209+1	1.112+1	9.655+0			2.562+0	4.738+0	4.647-3
5.761-2	1.297+0	1.368+0	1.133+1	1.045+1	8.754+0			2.327+0	4.593+0	5.495-3
7.172-2	1.377+0	1.468+0	1.067+1	9.871+0	7.995+0			2.130+0	4.465+0	6.413-3
8.957-2	1.458+0	1.573+0	1.008+1	9.348+0	7.343+0			1.961+0	4.352+0	7.421-3
9.591-2	1.570+0	1.719+0	9.359+0	8.788+0	6.297+0			1.688+0	4.039+0	8.673-3
1.307-1	1.734+0	1.940+0	8.474+0	7.724+0	4.918+0	2.583-1	1.687+0	3.596+0	1.030-2	
1.820-1	1.866+0	2.140+0	7.362+0	7.131+0	4.106+0	4.207-1	1.525+0	3.229+0	1.160-2	
2.475-1	1.910+0	2.250+0	7.693+0	6.803+0	3.879+0	5.014-1	1.058+0	3.200+0	1.308-2	
2.411-1	1.964+0	2.349+0	7.681+0	6.533+0	3.738+0	5.746-1	2.264+0	3.226+0	1.477-2	
2.710-1	2.010+0	2.437+0	7.312+0	6.344+0	3.637+0	6.038-1	2.828+0	3.248+0	1.618-2	
2.944-1	2.062+0	2.526+0	7.125+0	6.136+0	3.533+0	6.368-1	2.901+0	3.284+0	1.789-2	
3.345-1	2.117+0	2.633+0	5.943+0	5.921+0	3.412+0	6.803-1	2.997+0	3.318+0	2.008-2	
3.777-1	2.161+0	2.732+0	6.801+0	5.746+0	3.284+0	7.265-1	3.399+0	3.335+0	2.215-2	
4.234-1	2.215+0	2.812+0	6.534+0	5.538+0	2.909+0	7.971-1	3.252+0	3.333+0	2.424-2	
5.123-1	2.276+0	2.992+0	6.457+0	5.247+0	2.625+0	9.473-1	3.612+0	3.175+0	2.694-2	
6.254-1	2.343+0	3.192+0	6.272+0	4.898+0	2.319+0	1.142+0	4.084+0	3.240+0	2.977-2	

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ATOMIC WEIGHT 1.8656 ± 2		DENSITY 2.1126 ± 1 GRAMS/CC									
ENERGY		MF (CH)		CROSS SECTION (BARN)						ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD	TOTAL	LOCAL		
7.527-1	2.360+0	3.341+0	6.226+0	4.674+0	2.071-1	1.345+0	4.577+0	3.395-1	3.177-2		
8.834-1	2.361+0	3.477+0	6.225+0	4.475+0	1.861-1	1.564+0	5.106+0	3.573-1	3.346-2		
1.025+1	2.335+0	3.575+0	6.259+0	4.377+0	1.623-1	1.754+0	5.350+0	3.767-1	3.370-2		
1.176+1	2.300+0	3.639+0	6.390+0	4.316+0	1.401-1	1.933+0	5.800+0	4.018-1	3.333-2		
1.338+1	2.234+0	3.627+0	6.579+0	4.334+0	1.220-1	2.123+0	6.131+0	4.351-1	3.270-2		
1.511+1	2.191+0	3.649+0	6.706+0	4.365+0	1.045-1	2.237+0	6.493+0	4.699-1	3.185-2		
1.694+1	2.170+0	3.696+0	6.773+0	4.397+0	9.06-1	2.287+0	6.665+0	5.064-1	3.099-2		
1.887+1	2.146+0	3.679+0	6.847+0	4.431+0	7.523-2	2.340+0	7.206+0	5.491-1	3.018-2		
2.091+1	2.122+0	3.662+0	6.924+0	4.467+0	6.079-2	2.398+0	7.729+0	5.944-1	2.943-2		
2.305+1	2.097+0	3.647+0	7.007+0	4.504+0	4.901-2	2.455+0	8.225+0	6.481-1	2.689-2		
2.530+1	2.094+0	3.662+0	7.019+0	4.474+0	4.630-2	2.505+0	8.702+0	7.113-1	2.583-2		
2.741+1	2.105+0	3.710+0	6.981+0	4.343+0	3.311-2	2.555+0	9.176+0	7.920-1	2.500-2		
3.011+1	2.124+0	3.777+0	6.919+0	4.282+0	2.728-2	2.609+0	9.714+0	8.912-1	2.443-2		
3.267+1	2.149+0	3.858+0	6.837+0	4.157+0	2.297-2	2.664+0	1.020+1	1.003+0	2.413-2		
3.533+1	2.180+0	3.938+0	6.741+0	4.032+0	1.947-2	2.720+0	1.091+1	1.131+1	2.404-2		
3.811+1	2.213+0	3.997+0	6.640+0	3.894+0	1.673-2	2.775+0	1.169+1	1.267+1	2.411-2		
4.099+1	2.254+0	4.045+0	6.519+0	3.683+0	1.434-2	2.826+0	1.280+1	1.418+1	2.439-2		
4.366+1	2.304+0	4.084+0	6.378+0	3.497+0	1.227-2	2.869+0	1.374+1	1.569+1	2.487-2		
4.704+1	2.360+0	4.131+0	6.226+0	3.334+0	1.071-2	2.893+0	1.545+1	1.749+1	2.556-2		
4.991+1	2.417+0	4.169+0	6.079+0	3.174+0	9.836-3	2.896+0	1.751+1	1.930+1	2.681-2		
5.353+1	2.479+0	4.214+0	5.928+0	3.013+0	9.522-3	2.905+0	1.920+1	2.130+1	2.860-2		
5.698+1	2.545+0	4.275+0	5.773+0	2.860+0	9.230-3	2.905+0	2.115+1	2.327+1	3.085-2		
6.044+1	2.610+0	4.327+0	5.631+0	2.762+0	8.955-3	2.960+0	2.292+1	2.529+1	3.277-2		
6.367+1	2.670+0	4.374+0	5.504+0	2.660+0	8.706-3	2.916+0	2.420+1	2.727+1	3.483-2		
6.737+1	2.744+0	4.429+0	5.363+0	2.546+0	8.449-3	2.908+0	2.571+1	2.955+1	3.725-2		
7.156+1	2.799+0	4.466+0	5.250+0	2.462+0	8.205-3	2.781+0	2.662+1	3.140+1	3.962-2		
7.548+1	2.847+0	4.509+0	5.161+0	2.394+0	7.996-3	2.759+0	2.730+1	3.153+1	4.178-2		
7.910+1	2.889+0	4.537+0	5.088+0	2.339+0	7.799-3	2.741+0	2.796+1	3.049+1	4.370-2		
8.322+1	2.913+0	4.555+0	5.044+0	2.308+0	7.589-3	2.726+0	2.860+1	2.954+1	4.631-2		
8.767+1	2.936+0	4.572+0	5.006+0	2.283+0	7.402-3	2.716+0	2.922+1	2.668+1	4.846-2		
9.177+1	2.941+0	4.593+0	4.996+0	2.286+0	7.222-3	2.703+0	2.986+1	2.518+1	5.030-2		
9.665+1	2.944+0	4.631+0	4.992+0	2.295+0	7.042-3	2.689+0	3.046+1	2.430+1	5.217-2		
1.012+2	2.939+0	4.669+0	5.000+0	2.327+0	6.888-3	2.671+0	3.037+1	2.300+1	5.370-2		
1.058+2	2.931+0	4.711+0	5.013+0	2.359+0	6.747-3	2.651+0	3.076+1	2.384+1	5.504-2		
1.101+2	2.919+0	4.754+0	5.036+0	2.401+0	6.607-3	2.628+0	3.055+1	2.466+1	5.637-2		
1.155+2	2.902+0	4.806+0	5.064+0	2.456+0	6.471-3	2.601+0	3.040+1	2.553+1	5.762-2		
1.199+2	2.883+0	4.845+0	5.097+0	2.509+0	6.347-3	2.562+0	3.039+1	2.519+1	5.879-2		
1.250+2	2.864+0	4.882+0	5.132+0	2.569+0	6.217-3	2.556+0	3.002+1	2.605+1	5.993-2		
1.307+2	2.841+0	4.937+0	5.172+0	2.628+0	6.090-3	2.533+0	2.896+1	2.708+1	6.086-2		
1.354+2	2.821+0	4.989+0	5.210+0	2.672+0	5.912-3	2.533+0	2.896+1	2.785+1	6.160-2		
1.396+2	2.810+0	5.004+0	5.230+0	2.705+0	5.749-3	2.519+0	2.836+1	2.801+1	6.210-2		
1.413+2	2.801+0	5.043+0	5.265+0	2.735+0	5.691-3	2.504+0	2.839+1	2.772+1	6.253-2		
1.441+2	2.791+0	5.078+0	5.266+0	2.766+0	5.633-3	2.494+0	2.849+1	2.727+1	6.297-2		
1.468+2	2.766+0	5.079+0	5.312+0	2.805+0	5.765-3	2.461+0	2.844+1	2.657+1	6.373-2		
1.594+2	2.759+0	5.091+0	5.326+0	2.810+0	5.656-3	2.410+0	2.877+1	2.686+1	6.561-2		
1.575+2	2.759+0	5.077+0	5.326+0	2.801+0	5.568-3	2.519+0	2.894+1	2.754+1	6.787-2		
1.635+2	2.759+0	5.064+0	5.304+0	2.792+0	5.471-3	2.568+0	2.917+1	2.824+1	7.019-2		
1.657+2	2.759+0	5.051+0	5.325+0	2.783+0	5.378-3	2.538+0	2.914+1	2.895+1	7.253-2		
1.752+2	2.759+0	5.036+0	5.325+0	2.773+0	5.290-3	2.547+0	2.927+1	2.932+1	7.493-2		
1.813+2	2.759+0	5.022+0	5.325+0	2.764+0	5.202-3	2.557+0	2.925+1	2.925+1	7.737-2		
1.875+2	2.760+0	5.000+0	5.325+0	2.743+0	5.087-3	2.571+0	2.955+1	2.955+1	8.109-2		
2.000+2											
RESONANCE IN. GRALS				6.277+2	3.200+2	2.966+2	9.091+0	8.113+2			
MAXWELLIAN AVERAGES				7.421+1	8.003+0	6.621+1		1.741+2			
1/E AVERAGES				3.586+1	1.828+1	1.706+1	5.194+1	4.636+1			
FISSION AVERAGES				6.723+0	4.617+0	1.453+1	1.961+0	5.894+0			
FUSION AVERAGES				5.234+0	2.712+0	5.936+3	2.516+0	8.364+0			

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ENDL 175 Group Neutron Constants

78-Pt-Nat

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

78-Pl-Nat

ATOMIC WEIGHT 1.9509+2			DENSITY 2.1450+1 GRAMS/CC						
ENERGY MEV	MFP (CM)		CROSS SECTION (BARNYS)					ENERGY DEPOSITION (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	4.274-1	4.279-1	3.534+1	1.200+	2.334+1		6.092+1	5.099+0	1.075-4
5.227-9	6.377-1	6.388-1	2.368+1	1.200+	1.168+1		3.050+1	3.809+0	8.032-5
2.091-8	7.619-1	7.635-1	1.982+1	1.200+	7.823+0		2.042+1	3.077+0	6.426-5
3.267-8	8.212-1	8.231-1	1.839+1	1.200+	6.391+0		1.668+1	2.683+0	5.659-5
4.709-8	9.895-1	9.896-1	1.702+1	1.200+	5.018+0		1.310+1	2.276+0	4.802-5
8.322-8	9.501-1	9.526-1	1.590+1	1.200+	3.895+0		1.017+1	1.892+0	3.992-5
1.307-7	9.974-1	9.974-1	1.518+1	1.200+	3.184+0		8.310+0	1.619+0	3.417-5
1.862-7	1.020+0	1.031+0	1.468+1	1.200+	2.654+0		7.031+0	1.415+0	2.969-5
2.561-7	1.254+0	1.057+0	1.433+1	1.200+	2.333+0		6.090+0	1.257+0	2.655-5
3.345-7	1.074+0	1.078+0	1.406+1	1.200+	2.057+0		5.369+0	1.130+0	2.388-5
4.234-7	1.091+0	1.094+0	1.385+1	1.200+	1.849+0		4.826+0	1.031+0	2.180-5
5.123-7	1.111+0	1.114+0	1.359+1	1.200+	1.594+0		4.161+0	9.054+0	1.917-5
7.527-7	1.136+0	1.140+0	1.329+1	1.200+	1.292+0		3.373+0	7.505+0	1.593-5
1.176-6	1.154+0	1.157+0	1.309+1	1.200+	1.092+0		2.849+0	6.437+0	1.370-5
1.511-6	1.167+0	1.170+0	1.295+1	1.200+	9.451+0		2.467+0	5.636+0	1.203-5
2.091-6	1.178+0	1.182+0	1.282+1	1.200+	8.172+0		2.133+0	4.922+0	1.056-5
2.741-6	1.187+0	1.190+0	1.273+1	1.200+	7.279+0		1.900+0	4.415+0	9.518-6
3.533-6	1.194+0	1.198+0	1.265+1	1.200+	6.481+0		1.692+0	3.956+0	8.592-6
4.704-6	1.200+0	1.204+0	1.259+1	1.200+	5.868+0		1.532+0	3.599+0	7.881-6
5.658-6	1.204+0	1.208+0	1.254+1	1.200+	5.433+1		1.418+0	3.344+0	7.379-6
6.737-6	1.198+0	1.202+0	1.261+1	1.200+	6.080+0		1.589+0	3.728+0	8.302-6
8.322-6	1.013+0	1.016+0	1.491+1	1.307+	1.847+0		4.820+0	9.561+0	2.137-5
9.620-6	4.125+1	4.131+1	3.561+1	2.147+	1.514+1		3.950+1	3.192+0	1.771-5
1.051-5	4.637-2	4.639-2	3.257-2	4.236+	2.833-2		7.395+2	6.716+0	1.519-4
1.307-5	7.670+1	7.687+1	1.969+1	1.200+	7.690+0		2.007+1	3.015+0	6.898-5
1.468-5	1.070+0	1.073+0	1.412+1	1.200+	2.117+0		5.526+0	1.158+0	2.681-5
1.581-5	9.376-1	9.402-1	1.611+1	1.271+	3.399+0		6.872+0	1.629+0	3.806-5
1.758-5	3.935-1	3.940-1	3.838+1	1.534+	2.304+0		6.014+0	4.635+0	1.088-4
1.882-5	1.432+0	1.433+1	1.012+2	2.298+	7.822+0		2.042+2	5.907+0	1.408-4
2.075-5	1.045+0	1.046+0	1.445+1	1.181+	2.640+0		6.891+0	1.410+0	3.383-5
2.277-5	1.267+0	1.271+0	1.192+1	1.118+	7.368+0		1.928+0	4.765+0	1.176-5
2.417-5	1.317+0	1.322+0	1.147+1	1.100+	4.655+0		1.215+0	3.134+0	7.859-6
2.561-5	1.323+0	1.327+0	1.142+1	1.100+	4.153+0		1.084+0	2.809+0	7.137-6
2.710-5	1.328+0	1.333+0	1.137+1	1.100+	3.717+0		9.702+0	2.524+0	6.503-6
2.862-5	1.331+0	1.336+0	1.124+1	1.100+	3.426+0		8.943+0	2.372+0	6.078-6
2.943-5	1.335+0	1.339+0	1.132+1	1.100+	3.165+0		8.262+0	2.159+0	5.694-6
3.099-5	1.165+0	1.169+0	1.296+1	1.157+	1.391+0		3.629+0	8.264+0	2.122-5
3.345-5	1.340+0	1.344+0	1.127+1	1.095+	3.110+0		8.118+1	2.130+1	5.785-6
3.601-5	1.388+0	1.392+0	1.088+1	1.068+	2.051+0		5.353+1	1.455+1	4.141-5
3.866-5	1.421+0	1.426+0	1.063+1	1.046+	1.611+0		4.254+1	1.170+1	3.463-5
4.048-5	1.449+0	1.454+0	1.042+1	1.029+	1.336+0		3.486+1	9.895+2	3.033-6
4.234-5	1.471+0	1.476+0	1.027+1	1.015+	1.163+0		3.036+1	8.743+2	2.759-6
4.329-5	9.178-1	9.200+1	1.646+1	1.123+	5.226+0		1.364+1	2.452+0	6.643-5
4.619-5	5.128+1	5.136+1	2.945+1	1.321+	1.624+1		4.238+1	4.256+0	1.155-4
4.717-5	1.135+0	1.139+0	1.331+1	1.081+	2.503+0		6.533+0	1.452+0	3.993-5
4.918-5	1.495+0	1.500+0	1.101+1	1.000+	1.000+0		2.610+1	7.644+2	2.615-6
5.123-5	1.495+0	1.500+0	1.016+1	1.000+	1.000+0		2.610+1	7.644+2	2.656-6
5.332-5	1.495+0	1.500+0	1.010+1	1.000+	1.000+0		7.610+1	7.644+2	2.709-6
5.654-5	1.493+0	1.498+0	1.012+1	1.002+	1.035+0		2.713+1	7.931+2	2.837-6
5.753-5	1.102+0	1.105+0	1.370+1	1.128+	2.428+0		6.338+0	1.360+0	3.980-5
6.097-5	7.923-1	7.940+1	1.806+1	1.241+	6.653+0		1.737+1	2.695+0	7.888-5
6.325-5	3.221-1	3.224+1	4.689+1	1.503+	3.186+0		8.315+1	5.245+0	1.546-5
6.557-5	8.933-2	8.938-2	1.691+2	2.774+	1.413+2		3.689+2	6.454+0	1.913+4
6.674-5	1.415+1	1.416+1	1.067+2	2.221+	8.452+1		2.206+2	6.114+0	1.626+4
7.031-5	7.632-1	7.649+1	1.879+1	1.181+	7.916+0		2.082+1	3.112+0	9.450+5
7.155-5	9.515-1	9.539+1	1.587+1	1.132+	4.555+0		1.189+1	2.215+0	6.913+5
7.527-5	1.173+0	1.177+0	1.287+1	1.069+	2.178+0		5.685+0	1.306+0	4.106-5
7.780-5	1.288+0	1.292+0	1.172+1	1.031+	1.410+0		3.681+0	9.280+0	2.968+5
7.948-5	1.364+0	1.368+0	1.107+1	1.003+	1.038+0		2.710+0	7.239+0	2.351+5
8.167-5	1.371+0	1.375+0	1.101+1	1.001+	1.009+0		2.633+0	7.071+0	2.325+5
8.431-5	1.060+0	1.063+0	1.425+1	1.106+	3.255+0		8.494+0	1.763+0	5.760+5
8.834-5	5.787-1	5.799+1	2.610+1	1.431+	1.179+0		3.077+1	3.468+0	1.145+5

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ENDL 175 Group Neutron Constants

78-Pt-Nat

ATOMIC WEIGHT 1.9509 ± 2		DENSITY 2.1450 ± 1 GRAMS/CC									
ENERGY		WFP (CM)		CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.10E-5	2.480	2.490	1	6.070	1.475	4.595	1	1.199	5.844	0	1.933
9.38E-5	1.251	1.252	1	1.207	1.447	1.062	2	2.773	6.784	0	2.267
9.66E-5	2.546	2.548	1	5.932	1.426	4.506	1	1.176	5.864	0	1.974
9.81E-5	5.533	5.542	1	2.780	1.363	1.417	1	3.599	3.936	0	1.341
1.025E-4	7.136	7.210	1	2.099	1.218	8.806	0	2.299	3.239	0	1.136
1.099E-4	4.603	4.609	1	3.281	1.369	1.912	1	4.951	4.499	0	1.610
1.176E-4	3.160	3.164	1	4.779	1.595	3.184	1	6.310	5.143	0	1.889
1.256E-4	8.513	8.532	1	1.774	1.146	6.284	0	1.640	2.735	0	1.042
1.330E-4	4.283	4.289	1	3.526	1.357	2.169	1	5.661	4.749	0	1.852
1.406E-4	2.763	2.766	1	5.466	1.499	3.967	1	1.035	5.603	0	2.246
1.511E-4	2.460	2.462	1	6.140	1.821	4.319	1	1.127	5.431	0	2.227
1.601E-4	8.201	8.227	1	1.842	1.649	1.927	0	5.030	8.079	1	3.569
1.694E-4	7.768	7.789	1	1.944	1.502	4.418	0	1.153	1.754	0	7.792
1.789E-4	8.177	8.198	1	1.847	1.352	4.950	0	1.292	2.069	0	9.375
1.880E-4	9.853	9.880	1	1.537	1.198	3.352	0	8.750	1.688	0	7.950
1.980E-4	8.085	8.101	1	1.666	1.105	7.629	0	1.991	3.153	0	1.506
2.091E-4	7.744	7.760	1	1.950	1.142	8.086	0	2.111	3.201	0	1.718
2.214E-4	5.991	5.990	1	2.525	1.171	1.354	1	3.535	4.140	0	2.475
3.267E-4	9.796	9.821	1	1.542	1.140	4.014	0	1.048	2.010	0	1.377
3.811E-4	8.917	8.938	1	1.694	1.155	5.391	0	1.407	2.458	0	1.890
4.704E-4	7.346	7.361	1	2.056	1.248	8.068	0	2.106	3.030	0	2.565
4.991E-4	7.630	7.646	1	1.979	1.235	7.443	0	1.943	2.903	0	2.625
5.650E-4	9.507	9.530	1	1.589	1.130	4.582	0	1.186	2.227	0	2.188
6.042E-4	9.728	9.752	1	1.553	1.100	4.525	0	1.181	2.250	0	2.320
6.367E-4	8.605	8.627	1	1.715	1.100	6.153	0	1.656	2.772	0	3.050
6.456E-4	8.390	8.406	1	1.800	1.100	7.000	0	1.827	3.003	0	3.675
6.522E-4	8.418	8.435	1	1.794	1.100	6.941	0	1.812	2.987	0	4.051
9.177E-4	8.733	8.752	1	1.729	1.100	6.293	0	1.643	2.810	0	4.228
1.058E-3	9.249	9.270	1	1.633	1.100	5.330	0	1.391	2.520	0	4.440
1.307E-3	9.793	9.817	1	1.542	1.100	4.422	0	1.154	2.214	0	4.680
1.581E-3	1.025	1.028	0	1.473	1.100	3.730	0	9.739	1.955	0	4.096
1.682E-3	1.064	1.067	0	1.419	1.100	3.191	0	9.332	1.736	0	5.034
2.008E-3	1.097	1.100	0	1.376	1.100	2.765	0	7.218	1.551	0	5.279
2.561E-3	1.125	1.129	0	1.342	1.100	2.419	0	6.317	1.392	0	5.451
2.940E-3	1.118	1.122	0	1.350	1.137	2.135	0	5.575	1.271	0	5.466
3.345E-3	1.056	1.059	0	1.430	1.240	1.900	0	4.961	1.026	0	5.233
3.777E-3	9.929	9.955	1	1.522	1.351	1.704	0	4.450	8.649	1	5.004
4.234E-3	8.933	8.961	1	1.691	1.548	1.424	0	3.720	6.508	1	4.769
5.763E-3	8.992	9.021	1	1.680	1.567	1.125	0	2.940	5.177	1	5.150
7.527E-3	9.375	9.405	1	1.611	1.522	8.872	1	2.382	4.257	1	5.765
1.025E-2	9.983	1.002	0	1.513	1.446	6.632	1	2.537	3.391	1	6.780
1.511E-2	1.066	1.090	0	1.390	1.341	4.934	1	2.289	2.748	1	8.142
2.091E-2	1.136	1.139	0	1.330	1.291	3.913	1	2.025	2.261	1	9.307
2.645E-2	1.154	1.158	0	1.309	1.276	3.267	1	1.751	1.937	1	1.031
3.267E-2	1.172	1.176	0	1.289	1.260	2.890	1	1.448	1.743	1	1.169
3.953E-2	1.215	1.219	0	1.243	1.217	2.609	1	1.113	1.634	1	1.339
4.704E-2	1.290	1.294	0	1.171	1.147	2.272	1	8.188	1.580	1	1.581
5.761E-2	1.327	1.332	0	1.138	1.115	2.240	1	7.930	1.532	1	1.887
7.002E-2	1.359	1.364	0	1.111	1.089	2.237	1	7.854	1.577	1	2.306
8.322E-2	1.389	1.393	0	1.088	1.065	2.277	1	7.768	1.644	1	2.812
9.891E-2	1.447	1.452	0	1.044	1.020	2.342	1	7.975	1.769	1	3.680
1.307E-1	1.565	1.666	0	9.648	9.394	2.447	1	9.955	2.013	1	5.395
1.820E-1	1.681	1.683	0	8.982	8.706	2.378	1	9.803	2.119	1	6.603
2.075E-1	1.767	1.949	0	8.547	8.256	2.163	1	7.458	2.974	1	7.662
2.417E-1	1.861	2.070	0	8.114	7.811	1.980	1	1.048	1.008	1	8.943
2.710E-1	1.947	2.182	0	7.757	7.445	1.855	1	1.260	1.037	1	9.205
3.046E-1	2.041	2.300	0	7.356	7.074	1.730	1	1.514	1.070	1	9.354
3.345E-1	2.146	2.442	0	7.039	6.695	1.592	1	1.849	1.133	1	1.066
3.777E-1	2.264	2.603	0	6.672	6.304	1.472	1	2.204	1.196	1	1.218
4.234E-1	2.436	2.831	0	6.199	5.791	1.339	1	2.747	1.313	1	1.393
5.123E-1	2.748	3.276	0	5.535	5.022	1.111	1	3.955	1.678	1	1.650
6.325E-1	2.938	3.511	0	5.140	4.320	1.011	1	6.080	2.277	1	1.901

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ENDL 175 Group Neutron Constants

78-Pl-Nat

ATOMIC WEIGHT 1.9509 * 2		DENSITY 2.1450 * 1 GRAMS/CC									
ENERGY MEV	HWP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARNS)					[ENERGY DEPOSITIVMEV]		
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORBIN	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
0.547	1	3.018+0	3.162+0	5.004+0	3.994+0	9.162+2	9.180+1	3.080+0	2.435+1	2.087+2	
0.634	1	2.986+0	3.603+0	5.058+0	3.769+0	8.264+2	1.206+0	3.929+0	2.754+1	2.218+2	
0.705	0	3.001+0	3.651+0	5.033+0	3.550+0	7.292+2	1.410+0	4.483+0	3.079+1	2.326+2	
0.766	0	3.015+0	3.703+0	5.010+0	3.363+0	6.360+2	1.583+0	4.948+0	3.436+1	2.400+2	
0.828	0	2.977+0	3.691+0	5.074+0	3.251+0	5.631+2	1.767+0	5.428+0	3.853+1	2.484+2	
0.891	0	2.932+0	3.700+0	5.150+0	3.179+0	5.005+2	1.921+0	5.908+0	4.295+1	2.460+2	
0.944	0	2.732+0	3.804+0	5.549+0	3.451+0	4.478+2	2.053+0	6.303+0	4.500+1	2.316+2	
1.007	0	2.703+0	3.938+0	6.107+0	3.881+0	3.992+2	2.166+0	6.726+0	4.617+1	2.117+2	
1.091	0	2.264+0	4.008+0	6.676+0	4.364+0	3.323+2	2.279+0	6.925+0	4.645+1	1.950+2	
1.209	0	2.149+0	3.898+0	7.027+0	4.633+0	2.746+2	2.367+0	7.078+0	4.851+1	1.863+2	
1.330	0	2.100+0	3.871+0	7.191+0	4.741+0	2.309+2	2.427+0	7.128+0	5.153+1	1.824+2	
1.464	0	2.067+0	3.870+0	7.367+0	4.813+0	1.940+2	2.475+0	7.111+0	5.513+1	1.801+2	
1.611	0	2.050+0	3.940+0	7.337+0	4.922+0	1.628+2	2.499+0	7.113+0	5.990+1	1.793+2	
1.767	0	2.075+0	4.045+0	7.262+0	4.773+0	1.397+2	2.496+0	7.131+0	6.543+1	1.799+2	
1.933	0	2.132+0	4.167+0	7.187+0	4.681+0	1.130+2	2.493+0	7.051+0	7.184+1	1.811+2	
2.111	0	2.125+0	4.361+0	7.074+0	4.573+0	1.035+2	2.491+0	6.910+0	7.869+1	1.829+2	
2.303	0	2.179+0	4.417+0	6.931+0	4.432+0	9.468+1	2.488+0	6.659+0	8.687+1	1.911+2	
2.508	0	2.231+0	4.480+0	6.769+0	4.275+0	8.107+1	2.485+0	6.407+0	9.663+1	2.031+2	
2.734	0	2.282+0	4.542+0	6.617+0	4.126+0	6.823+1	2.482+0	6.341+0	1.063+2	2.144+2	
2.981	0	2.341+0	4.603+0	6.481+0	3.964+0	5.746+1	2.478+0	6.308+0	1.172+2	2.268+2	
3.253	0	2.405+0	4.672+0	6.320+0	3.797+0	4.728+1	2.476+0	6.301+0	1.292+2	2.399+2	
3.548	0	2.474+0	4.741+0	6.164+0	3.625+0	3.849+1	2.472+0	6.336+0	1.427+2	2.539+2	
3.867	0	2.550+0	4.816+0	6.017+0	3.448+0	2.954+1	2.464+0	6.318+0	1.556+2	2.707+2	
4.209	0	2.637+0	4.894+0	5.874+0	3.271+0	2.115+1	2.451+0	6.365+0	1.688+2	2.893+2	
4.573	0	2.729+0	4.974+0	5.732+0	3.090+0	1.268+1	2.450+0	6.422+0	1.838+2	3.110+2	
4.956	0	2.819+0	5.064+0	5.593+0	2.903+0	5.447+0	2.450+0	7.115+0	1.618+2	3.336+2	
5.358	0	2.917+0	5.162+0	5.454+0	2.758+0	5.185+0	2.450+0	7.210+0	1.586+2	3.550+2	
5.780	0	2.967+0	5.268+0	5.320+0	2.635+0	4.643+0	2.450+0	7.226+0	1.515+2	3.711+2	
6.222	0	3.018+0	5.385+0	5.200+0	2.567+0	3.581+0	2.450+0	7.270+0	1.352+2	3.770+2	
6.683	0	3.045+0	5.510+0	5.083+0	2.495+0	2.795+0	2.450+0	7.352+0	1.188+2	3.851+2	
7.164	0	3.085+0	5.671+0	4.931+0	2.479+0	2.198+0	2.450+0	7.391+0	1.162+2	3.945+2	
7.665	0	3.078+0	5.980+0	4.803+0	2.458+0	1.716+0	2.450+0	7.422+0	1.158+2	4.062+2	
8.187	0	3.055+0	6.394+0	4.628+0	2.405+0	1.263+0	2.441+0	7.465+0	1.161+2	4.142+2	
8.730	0	3.044+0	6.924+0	4.466+0	2.330+0	1.100+0	2.430+0	7.442+0	1.213+2	4.211+2	
9.293	0	3.014+0	7.579+0	4.311+0	2.252+0	9.097+0	2.418+0	7.306+0	1.243+2	4.293+2	
9.876	0	2.979+0	8.359+0	4.202+0	2.165+0	7.717+0	2.406+0	7.119+0	1.270+2	4.381+2	
1.049	1	2.942+0	9.306+0	4.133+0	2.073+0	6.546+0	2.396+0	7.070+0	1.302+2	4.469+2	
1.120	1	2.902+0	9.069+0	4.275+0	1.918+0	5.617+0	2.397+0	7.129+0	1.331+2	4.547+2	
1.197	1	2.863+0	9.510+0	4.244+0	1.846+0	4.813+0	2.378+0	7.161+0	1.344+2	4.604+2	
1.281	1	2.835+0	9.130+0	4.377+0	1.955+0	4.295+0	2.372+0	7.180+0	1.354+2	4.647+2	
1.366	1	2.816+0	9.151+0	4.364+0	2.956+0	3.955+0	2.367+0	7.163+0	1.358+2	4.679+2	
1.453	1	2.809+0	9.175+0	4.373+0	3.014+0	3.672+0	2.362+0	6.968+0	1.345+2	4.704+2	
1.541	1	2.808+0	9.211+0	4.379+0	3.027+0	3.413+0	2.352+0	6.706+0	1.326+2	4.697+2	
1.630	1	2.817+0	9.281+0	4.361+0	3.046+0	3.081+0	2.315+0	6.139+0	1.279+2	4.603+2	
1.720	1	2.791+0	9.276+0	4.511+0	3.069+0	2.693+0	2.342+0	5.022+0	1.167+2	4.503+2	
1.811	1	2.758+0	9.258+0	4.475+0	3.252+0	2.341+0	2.384+0	3.904+0	1.055+2	4.559+2	
1.904	1	2.746+0	9.274+0	4.499+0	3.115+0	2.039+0	2.384+0	4.918+0	1.040+2	4.781+2	
1.997	1	2.738+0	9.317+0	4.517+0	3.139+0	1.781+0	2.378+0	6.750+0	1.053+2	5.052+2	
2.092	1	2.740+0	9.384+0	4.528+0	3.157+0	1.560+0	2.372+0	7.818+0	1.108+2	5.237+2	
2.189	1	2.726+0	9.442+0	4.535+0	3.169+0	1.368+0	2.366+0	7.721+0	1.178+2	5.343+2	
2.287	1	2.724+0	9.461+0	4.544+0	3.188+0	1.134+0	2.356+0	7.711+0	1.285+2	5.477+2	
2.386	1										
RESONANCE INTEGRALS				3.033+2	1.852+2	1.113+2	7.445+0	3.138+2			
MAXWELLIAN AVERAGES				1.909+1	1.200+1	7.094+0		1.852+1			
THERMAL AVERAGES				1.746+1	1.058+1	6.360+0	4.253+1	1.793+1			
FUSION AVERAGES				6.265+0	4.540+0	6.583+2	1.649+0	5.023+0			
FUSION AVERAGES				5.354+0	2.990+0	3.914+4	4.2363+0	7.004+0			

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ENDL 175 Group Neutron Constants

79-Au-197

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ENDL 175 Group Neutron Constants

79-Au-197

Barns

Mev/Collision

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ENDL 175 Group Neutron Constants

79-Au-197

ATOMIC WEIGHT 1.9687 ± 2			DENSITY 1.9320 ± 1 GRAMS/CC					
ENERGY	MFP (CM)	CROSS SECTION (BARNs)					ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307- 9	5.508 ± 2	5.509 ± 2	3.029 ± 2	9.000 ± 0	2.939 ± 2	6.731 ± 2	6.317 ± 0	1.113 ± 4
5.227- 9	1.085 ± 1	1.085 ± 1	1.560 ± 2	9.000 ± 0	1.470 ± 2	3.367 ± 2	6.134 ± 0	1.081 ± 4
2.091- 8	1.586 ± 1	1.587 ± 1	1.067 ± 2	9.000 ± 0	9.773 ± 1	2.238 ± 2	5.961 ± 0	1.051 ± 4
3.267- 8	1.896 ± 1	1.896 ± 1	8.930 ± 1	9.000 ± 0	6.030 ± 1	1.839 ± 2	5.854 ± 0	1.032 ± 4
4.704- 8	2.330 ± 1	2.331 ± 1	7.265 ± 1	9.000 ± 0	6.365 ± 1	1.458 ± 2	5.704 ± 0	1.006 ± 4
8.322- 8	2.841 ± 1	2.843 ± 1	5.958 ± 1	9.000 ± 0	5.058 ± 1	1.158 ± 2	5.527 ± 0	9.750 ± 5
1.307- 7	3.271 ± 1	3.273 ± 1	5.175 ± 1	9.000 ± 0	4.275 ± 1	9.790 ± 1	5.378 ± 0	9.482 ± 5
1.882- 7	3.665 ± 1	3.668 ± 1	4.619 ± 1	9.000 ± 0	3.719 ± 1	8.515 ± 1	5.241 ± 0	9.256 ± 5
2.561- 7	4.029 ± 1	4.032 ± 1	4.201 ± 1	9.000 ± 0	3.301 ± 1	7.560 ± 1	5.115 ± 0	9.039 ± 5
3.345- 7	4.359 ± 1	4.363 ± 1	3.883 ± 1	9.000 ± 0	2.983 ± 1	6.832 ± 1	5.001 ± 0	8.844 ± 5
4.234- 7	4.574 ± 1	4.578 ± 1	3.701 ± 1	9.000 ± 0	2.801 ± 1	6.415 ± 1	4.927 ± 0	8.719 ± 5
5.123- 7	4.848 ± 1	4.852 ± 1	3.492 ± 1	9.000 ± 0	2.592 ± 1	6.335 ± 1	4.832 ± 0	8.563 ± 5
7.527- 7	5.085 ± 1	5.089 ± 1	3.329 ± 1	9.000 ± 0	2.429 ± 1	5.563 ± 1	4.750 ± 0	8.443 ± 5
1.176- 6	4.934 ± 1	4.930 ± 1	3.431 ± 1	9.000 ± 0	2.531 ± 1	5.796 ± 1	4.802 ± 0	8.563 ± 5
1.511- 6	4.514 ± 1	4.518 ± 1	3.750 ± 1	9.000 ± 0	2.850 ± 1	6.527 ± 1	4.948 ± 0	8.857 ± 5
2.091- 6	3.615 ± 1	3.518 ± 1	4.683 ± 1	9.000 ± 0	3.783 ± 1	8.662 ± 1	5.259 ± 0	9.465 ± 5
2.741- 6	2.183 ± 1	2.181 ± 1	7.755 ± 1	9.098 ± 0	6.845 ± 1	1.567 ± 2	5.746 ± 0	1.041 ± 4
3.533- 6	2.416 ± 2	2.419 ± 2	7.001 ± 2	7.482 ± 1	6.252 ± 2	1.432 ± 3	5.613 ± 0	1.064 ± 4
4.704- 6	2.334 ± 3	2.335 ± 3	7.254 ± 2	8.104 ± 2	6.443 ± 3	1.475 ± 4	5.783 ± 0	1.063 ± 4
5.658- 6	8.481 ± 2	8.488 ± 2	1.996 ± 2	5.238 ± 1	1.472 ± 2	3.372 ± 2	4.802 ± 0	8.911 ± 5
6.737- 6	3.256 ± 1	3.261 ± 1	5.199 ± 1	2.472 ± 1	2.727 ± 1	6.245 ± 1	3.415 ± 0	6.407 ± 5
8.322- 6	6.405 ± 1	6.420 ± 1	2.643 ± 1	1.797 ± 1	8.457 ± 0	1.937 ± 1	2.083 ± 0	3.961 ± 5
9.620- 6	8.544 ± 1	8.567 ± 1	1.981 ± 1	1.549 ± 1	4.325 ± 0	9.905 ± 0	1.421 ± 0	2.735 ± 5
1.101- 5	1.072 ± 0	1.075 ± 0	1.579 ± 1	1.346 ± 1	2.336 ± 0	5.349 ± 0	9.630 ± 1	1.083 ± 5
1.307- 5	1.270 ± 0	1.274 ± 0	1.333 ± 1	1.194 ± 1	1.391 ± 0	3.190 ± 0	6.603 ± 1	1.350 ± 5
1.468- 5	1.402 ± 0	1.406 ± 0	1.208 ± 1	1.105 ± 1	1.029 ± 0	2.359 ± 0	5.540 ± 1	1.120 ± 5
1.501- 5	1.530 ± 0	1.535 ± 0	1.106 ± 1	1.027 ± 1	7.945 ± 1	1.819 ± 0	4.675 ± 1	9.587 ± 5
1.758- 5	1.646 ± 0	1.652 ± 0	1.028 ± 1	9.637 ± 0	6.444 ± 1	1.477 ± 0	4.083 ± 1	8.505 ± 6
1.892- 5	1.757 ± 0	1.762 ± 0	9.637 ± 0	9.113 ± 0	5.242 ± 1	1.201 ± 0	3.541 ± 1	7.499 ± 6
2.075- 5	1.888 ± 0	1.894 ± 0	8.967 ± 0	8.540 ± 0	4.271 ± 1	9.780 ± 1	3.101 ± 1	6.705 ± 6
2.277- 5	1.994 ± 0	2.001 ± 0	8.489 ± 0	8.115 ± 0	3.737 ± 1	8.598 ± 1	2.966 ± 1	6.306 ± 6
2.417- 5	2.083 ± 0	2.090 ± 0	8.127 ± 0	7.797 ± 0	3.293 ± 1	7.542 ± 1	2.638 ± 1	5.895 ± 6
2.551- 5	2.170 ± 0	2.177 ± 0	7.801 ± 0	7.505 ± 0	2.961 ± 1	6.781 ± 1	2.471 ± 1	5.608 ± 6
2.710- 5	2.262 ± 0	2.268 ± 0	7.485 ± 0	7.208 ± 0	2.767 ± 1	6.337 ± 1	2.407 ± 1	5.538 ± 6
2.862- 5	2.337 ± 0	2.345 ± 0	7.244 ± 0	6.981 ± 0	2.624 ± 1	6.009 ± 1	2.348 ± 1	5.486 ± 6
2.970- 5	2.416 ± 0	2.424 ± 0	7.008 ± 0	6.751 ± 0	2.568 ± 1	5.880 ± 1	2.385 ± 1	5.599 ± 6
3.093- 5	2.500 ± 0	2.508 ± 0	6.639 ± 0	6.389 ± 0	2.494 ± 1	5.711 ± 1	2.445 ± 1	5.829 ± 6
3.345- 5	2.715 ± 0	2.723 ± 0	6.236 ± 0	5.992 ± 0	2.449 ± 1	5.608 ± 1	2.556 ± 1	6.201 ± 6
3.601- 5	2.876 ± 0	2.885 ± 0	5.887 ± 0	5.631 ± 0	2.556 ± 1	5.053 ± 1	2.826 ± 1	6.957 ± 6
3.866- 5	3.006 ± 0	3.016 ± 0	5.632 ± 0	5.354 ± 0	2.776 ± 1	6.357 ± 1	3.209 ± 1	7.978 ± 6
4.043- 5	3.102 ± 0	3.112 ± 0	5.457 ± 0	5.150 ± 0	3.068 ± 1	7.026 ± 1	3.660 ± 1	9.164 ± 6
4.234- 5	3.165 ± 0	3.175 ± 0	5.349 ± 0	5.002 ± 0	3.469 ± 1	7.943 ± 1	4.222 ± 1	1.081 ± 5
4.329- 5	3.147 ± 0	3.157 ± 0	5.379 ± 0	4.934 ± 0	3.451 ± 1	1.248 ± 0	6.997 ± 1	1.658 ± 5
4.619- 5	1.632 ± 0	1.635 ± 0	1.038 ± 1	6.029 ± 0	4.347 ± 0	9.954 ± 0	2.727 ± 0	6.773 ± 5
4.717- 5	4.078 ± 0	4.090 ± 0	4.151 ± 0	3.534 ± 0	6.177 ± 1	1.415 ± 0	9.687 ± 1	2.462 ± 5
4.918- 5	4.373 ± 0	4.385 ± 0	3.871 ± 0	3.093 ± 0	7.784 ± 1	1.783 ± 0	1.309 ± 0	3.353 ± 5
5.123- 5	4.336 ± 0	4.347 ± 0	3.904 ± 0	2.732 ± 0	1.172 ± 0	2.684 ± 0	1.954 ± 0	5.045 ± 5
5.332- 5	1.684 ± 0	1.688 ± 0	1.005 ± 1	7.232 ± 0	2.822 ± 0	6.464 ± 0	1.827 ± 0	4.005 ± 5
5.654- 5	4.337 ± 1	4.348 ± 1	3.904 ± 1	2.906 ± 1	9.875 ± 0	2.284 ± 1	1.684 ± 0	4.429 ± 5
5.763- 5	2.438 ± 2	2.441 ± 2	6.940 ± 2	1.172 ± 2	5.768 ± 2	1.321 ± 3	5.414 ± 1	1.452 ± 4
6.097- 5	1.685 ± 1	1.688 ± 1	1.005 ± 2	6.595 ± 1	3.454 ± 1	7.910 ± 1	2.238 ± 0	5.091 ± 5
6.320- 5	7.587 ± 1	7.608 ± 1	2.231 ± 1	1.628 ± 1	4.038 ± 0	9.246 ± 0	1.176 ± 0	3.285 ± 5
6.557- 5	1.798 ± 0	803 ± 0	9.415 ± 0	7.537 ± 0	1.878 ± 0	4.301 ± 0	1.299 ± 0	3.655 ± 5
6.674- 5	2.053 ± 0	2.059 ± 0	8.248 ± 0	7.222 ± 0	04 ± 0	2.400 ± 0	6.272 ± 1	2.382 ± 5
7.034- 5	2.148 ± 0	2.155 ± 0	7.881 ± 0	7.200 ± 0	6.809 ± 1	1.559 ± 0	5.625 ± 1	1.667 ± 5
7.155- 5	2.139 ± 0	2.146 ± 0	7.913 ± 0	7.200 ± 0	7.133 ± 1	1.633 ± 0	5.668 ± 1	1.761 ± 5
7.527- 5	2.424 ± 0	2.427 ± 0	1.189 ± 1	7.200 ± 0	4.688 ± 0	1.074 ± 0	2.587 ± 0	7.589 ± 5
7.780- 5	7.691 ± 2	7.691 ± 2	2.201 ± 2	7.200 ± 0	2.129 ± 2	4.876 ± 2	6.297 ± 0	1.885 ± 4
7.908- 5	1.511 ± 0	1.514 ± 0	1.121 ± 1	7.200 ± 0	4.006 ± 0	9.175 ± 0	6.327 ± 0	6.992 ± 5
8.167- 5	2.195 ± 0	2.202 ± 0	7.711 ± 0	7.200 ± 0	5.12 ± 1	1.171 ± 0	4.315 ± 1	1.385 ± 5
8.431- 5	2.278 ± 0	2.286 ± 0	7.431 ± 0	7.200 ± 0	2.313 ± 1	5.297 ± 1	1.026 ± 1	7.046 ± 6
8.634- 5	2.301 ± 0	2.309 ± 0	7.356 ± 0	7.200 ± 0	1.564 ± 1	3.581 ± 1	1.384 ± 1	5.225 ± 6

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ATOMIC WEIGHT 1.9697 ± 2				DENSITY 1.9320 ± 1 GRAMS/CC								
ENERGY MEV	HFP (CM)	CROSS SECTION (BARNs)										
		TOTAL TRANSPORT		TOTAL ELASTIC		ABSORPTION		REMAINDER		ENERGY DEPOSIT (MEV)		
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	REMAINDER	GAM-PROD.		TOTAL	LOCAL	
0.0000	2.3090	2.3170	0.7330	0.7200	0.1303	1	2.983	1	1.157	1	4.594	6
0.0005	2.3120	2.3200	0.7320	0.7200	0.1290	1	2.793	1	1.084	1	4.440	6
0.0010	2.3160	2.3180	0.7320	0.7200	0.1271	1	2.911	1	1.129	1	4.641	6
0.0015	2.2970	2.3050	0.7369	0.7200	0.1694	1	3.879	1	1.495	1	5.928	6
0.0020	2.4200	5.4240	3.1240	7.2000	2.4044	1	5.504	1	5.010	0	1.704	4
0.0025	2.2940	2.3020	0.7379	0.7200	0.1794	1	4.108	1	1.582	1	6.640	6
0.0030	1.8010	1.8050	0.9401	0.7200	0.2204	2	5.041	0	1.524	0	5.629	5
0.0035	2.3510	2.3310	0.7268	0.7200	0.7550	2	2.005	1	1.822	2	4.228	6
0.0040	2.3200	2.3120	0.7348	0.7200	0.1749	1	3.388	1	1.311	1	6.432	6
0.0045	1.7590	1.7660	2.1920	0.7200	0.1462	1	3.347	1	4.362	0	1.752	4
0.0050	1.6370	1.6400	1.3651	0.7200	0.2931	1	6.711	1	5.226	0	2.134	4
0.0055	2.8670	2.8680	1.5924	0.7200	0.5184	1	1.187	2	5.716	0	2.438	4
0.0060	2.2850	2.2920	0.7409	0.7200	0.2092	1	4.791	1	1.838	1	9.822	6
0.0065	2.1540	2.1890	0.7600	0.7200	0.5598	1	1.282	0	4.696	1	2.339	5
0.0070	1.6270	1.6290	1.3109	0.7200	0.6649	1	6.069	1	5.119	0	2.396	4
0.0075	2.2700	2.2700	0.7480	0.7200	0.5720	1	8.890	1	2.245	1	1.305	5
0.0080	1.1290	1.1380	2.0830	0.7200	0.1353	1	3.120	1	4.260	0	2.393	4
0.0085	1.7710	1.7780	2.5000	0.7200	0.1780	1	4.077	1	4.635	0	2.902	4
0.0090	1.1110	1.1160	2.7700	0.7200	0.2050	1	4.690	1	4.818	0	3.443	4
0.0095	1.7380	1.7510	1.7390	0.7200	0.1019	1	2.333	1	3.815	0	3.156	4
0.0100	1.6070	1.6070	1.3330	0.7200	0.6171	1	5.993	1	5.106	0	4.671	4
0.0105	1.5390	1.5420	1.1010	0.7200	0.8950	0	8.715	0	2.250	0	2.291	4
0.0110	1.7510	1.7540	3.5630	0.7200	2.8430	0	6.512	1	5.195	0	5.594	4
0.0115	1.8740	1.8740	2.0310	0.7200	0.1311	1	3.003	1	4.203	0	4.754	4
0.0120	1.6760	1.6980	2.4270	0.7200	0.1707	1	3.909	1	4.579	0	5.580	4
0.0125	1.4370	1.4450	2.2760	0.7200	0.1556	1	3.565	1	4.451	0	6.190	4
0.0130	1.5250	1.5300	1.5950	0.7200	0.1595	0	3.653	0	1.181	0	1.958	4
0.0135	1.9950	1.9970	1.7510	0.7200	9.8050	0	2.246	1	3.794	0	6.340	4
0.0140	1.2580	1.2630	1.3750	0.7200	0.5562	0	1.501	1	3.182	0	6.155	4
0.0145	1.3070	1.3260	1.3760	0.7200	0.5680	0	1.503	1	3.110	0	7.406	4
0.0150	1.5810	1.5860	1.1470	0.7200	0.4274	0	9.789	0	2.425	0	6.946	4
0.0155	1.6820	1.6880	1.1080	0.7200	3.8790	0	8.887	0	2.280	0	7.652	4
0.0160	2.2080	2.2130	1.0760	0.7200	3.5800	0	8.201	0	2.183	0	8.410	4
0.0165	2.5610	2.5630	1.0280	0.7200	3.1930	0	7.294	0	1.997	0	9.925	4
0.0170	2.9400	2.9420	1.0060	0.7200	2.8610	0	6.955	0	1.822	0	9.435	4
0.0175	3.3450	3.3470	0.9780	0.7200	2.5880	0	5.931	0	1.722	0	9.928	4
0.0180	3.7770	3.7780	0.9560	0.7200	2.3660	0	5.421	0	1.611	0	1.044	3
0.0185	4.2330	4.2340	0.9290	0.7257	2.0410	0	4.679	0	1.430	0	1.151	3
0.0190	4.7030	4.7040	0.8930	0.7693	1.6930	0	3.882	0	1.176	0	1.266	3
0.0195	5.1870	5.1880	0.8540	0.8225	1.3730	0	3.202	0	9.328	1	1.351	3
0.0200	5.6850	5.6860	0.8150	0.8547	1.0200	0	3.191	0	6.957	1	1.458	3
0.0205	6.1940	6.1950	0.7750	0.8358	0.7941	1	2.972	0	5.394	1	1.644	3
0.0210	6.7120	6.7130	0.7340	0.9338	0.6720	1	2.739	0	4.524	1	1.854	3
0.0215	7.2400	7.2410	0.6940	9.1720	0.5923	1	2.497	0	3.970	1	2.062	3
0.0220	7.7780	7.7790	0.6540	9.2550	0.5101	1	2.228	0	3.550	1	2.285	3
0.0225	8.3260	8.3270	0.6150	9.3380	0.4451	1	1.933	0	3.239	1	2.533	3
0.0230	8.8840	8.8850	0.5760	9.3940	0.3891	1	1.641	0	2.940	1	2.818	3
0.0235	9.4520	9.4530	0.5370	9.4350	0.3498	1	1.493	0	2.686	1	3.148	3
0.0240	10.0300	10.0310	0.4980	9.4960	0.3200	1	1.342	0	2.364	1	3.443	3
0.0245	10.6180	10.6190	0.4590	9.3390	0.3400	1	1.171	0	2.221	1	3.885	3
0.0250	11.2160	11.2170	0.4200	9.6060	0.3041	1	1.045	0	2.263	1	4.933	3
0.0255	11.8240	11.8250	0.3810	9.5550	0.1067	1	1.597	1	9.858	1	6.491	3
0.0260	12.4420	12.4430	0.3420	9.2620	0.7377	1	2.601	1	9.309	1	7.609	3
0.0265	13.0700	13.0710	0.3030	9.0750	0.7434	1	3.737	1	9.755	1	8.697	3
0.0270	13.7080	13.7090	0.2640	9.0450	0.7493	1	4.600	1	9.128	1	9.566	3
0.0275	14.3560	14.3570	0.2250	9.0240	0.7552	1	5.475	1	7.612	1	1.014	2
0.0280	15.0140	15.0150	0.1860	9.0030	0.7611	1	6.355	1	1.110	0	1.079	2
0.0285	15.6820	15.6830	0.1470	9.0150	0.7670	1	7.422	1	2.183	0	1.153	2
0.0290	16.3600	16.3610	0.1080	9.0270	0.7729	1	8.531	1	3.207	0	1.230	2
0.0295	17.0480	17.0490	0.0690	9.0390	0.7788	1	9.683	1	3.694	0	1.303	2
0.0300	17.7460	17.7470	0.0300	9.0510	0.7847	1	10.835	1	4.176	0	1.388	2
0.0305	18.4540	18.4550	0.0110	9.0630	0.7906	1	12.087	1	4.658	0	1.488	2
0.0310	19.1720	19.1730	0.0020	9.0750	0.7965	1	13.439	1	5.140	0	1.606	2

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 1.96974 2				DENSITY 1.9320 1 GRAMS/CC					
ENERGY MEV	MFP (CM)			CROSS SECTION (BARNs)				ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT		ELASTIC	ABSORPT	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527	2.743	3.572	5.114	4.500	9.354	2.1577	5.360	2.011	1.746
8.834	2.789	3.617	6.069	4.203	8.657	2.1779	5.764	2.210	1.944
1.025	2.835	3.645	5.972	3.960	8.213	2.1930	6.116	2.478	2.169
1.176	2.870	3.716	5.895	3.764	7.850	2.2056	6.474	2.870	2.401
1.338	2.848	3.723	5.945	3.681	7.450	2.2189	6.774	3.558	2.585
1.511	2.795	3.671	6.143	3.793	6.966	2.2281	7.018	4.186	2.692
1.694	2.598	3.566	6.516	4.115	6.393	2.2337	7.205	4.380	2.710
1.887	2.400	3.420	7.053	4.601	5.749	2.2395	7.399	4.494	2.649
2.091	2.273	3.360	7.447	4.957	5.064	2.2440	7.369	4.710	2.598
2.305	2.225	3.396	7.609	5.082	4.358	2.2483	7.303	5.100	2.537
2.530	2.225	3.495	7.610	5.046	3.725	2.2527	7.345	5.630	2.495
2.741	2.342	3.606	7.556	4.950	3.135	2.2575	7.466	6.306	2.445
3.011	2.269	3.777	7.453	4.836	2.578	2.2600	7.471	7.049	2.377
3.267	2.306	3.972	7.342	4.720	2.201	2.2600	7.361	7.798	2.311
3.533	2.346	4.125	7.217	4.598	1.950	2.2602	7.134	8.620	2.332
3.811	2.386	4.420	7.095	4.477	1.808	2.2600	6.951	9.517	2.352
4.059	2.431	4.658	6.962	4.345	1.705	2.2600	6.723	1.057	2.429
4.396	2.482	4.761	6.819	4.202	1.624	2.2600	6.659	1.176	2.566
4.704	2.533	4.838	6.684	4.362	1.565	2.2600	6.697	1.293	2.707
4.991	2.596	4.986	6.524	3.914	1.520	2.2595	6.753	1.432	2.874
5.257	2.668	5.035	6.345	3.747	1.480	2.2584	6.866	1.587	3.054
5.658	2.747	5.141	6.162	3.575	1.448	2.2573	7.033	1.755	3.251
5.842	2.834	5.250	5.973	3.398	1.415	2.2562	7.184	1.928	3.484
6.367	2.925	5.295	5.788	3.224	1.383	2.2550	7.306	2.100	3.738
6.774	3.033	5.350	5.591	3.030	1.349	2.2538	7.434	2.306	4.034
7.156	3.137	5.399	5.397	2.859	1.325	2.2525	7.582	2.520	4.348
7.481	3.234	5.444	5.234	2.708	1.300	2.2513	7.738	2.726	4.645
7.910	3.303	5.463	5.116	2.591	1.275	2.2512	7.882	2.914	4.912
8.322	3.284	5.358	5.155	2.545	1.246	2.2597	8.164	3.027	5.108
8.787	3.263	5.294	5.188	2.568	1.223	2.2666	8.722	3.101	5.300
9.177	3.354	5.574	5.048	2.521	1.202	2.2515	8.351	2.855	5.492
9.665	3.381	5.781	5.007	2.545	1.180	2.2450	8.144	2.462	5.670
1.014	3.360	5.776	5.036	2.576	1.165	2.2450	8.041	2.133	5.858
1.059	3.339	5.729	5.071	2.610	1.153	2.2450	7.867	1.822	6.048
1.191	3.314	5.682	5.108	2.646	1.148	2.2450	7.563	1.573	6.357
1.155	3.253	5.520	5.204	2.683	1.146	2.2509	7.563	1.521	6.463
1.199	3.210	5.413	5.274	2.718	1.160	2.2544	7.521	1.601	6.666
1.250	3.266	5.550	5.281	2.759	1.184	2.2510	7.130	1.688	6.821
1.307	3.222	5.710	5.287	2.738	1.180	2.2477	6.874	1.775	6.908
1.354	3.199	5.850	5.292	2.828	1.203	2.2452	6.776	1.840	6.979
1.386	3.196	5.948	5.297	2.850	1.220	2.2436	6.730	1.889	7.029
1.413	3.186	6.009	5.314	2.868	1.228	2.2433	6.750	1.949	7.073
1.441	3.175	6.066	5.332	2.886	1.238	2.2433	6.797	2.013	7.117
1.466	3.143	6.031	5.368	2.912	1.330	2.2460	6.823	2.080	7.176
1.519	3.113	5.884	5.438	2.948	1.434	2.2475	6.871	2.146	7.291
1.575	3.095	5.775	5.470	2.992	1.645	2.2477	6.611	2.151	7.447
1.633	3.076	5.745	5.504	3.025	1.674	2.2462	6.289	2.123	7.559
1.682	3.056	5.779	5.540	3.055	1.682	2.2459	5.937	2.069	7.737
1.752	3.035	5.813	5.577	3.125	1.691	2.2455	5.627	1.993	7.927
1.813	3.003	5.803	5.638	3.146	1.699	2.2475	5.661	1.939	8.155
1.875	2.987	5.814	5.712	3.208	1.712	2.2460	5.513	1.875	8.603
2.000									
RESONANCE INTEGRALS			1.871	3.3152	2.1546	3.9013	3.569	3	
MAXWELLIAN AVERAGES			9.857	1.9000	8.9574	1	2.051	2	
1/E AVERAGES			1.069	2.1801	1.8344	1.5149	1	2.039	2
FISSION AVERAGES			6.801	0.4723	0.9160	2.1996	6.028	0	
FUSION AVERAGES			5.308	0.2853	0.1223	2.443	6.776	5	

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ENDL 175 Group Neutron Constants

82-Pb-Nat

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ENDL 175 Group Neutron Constants

82-Pb-Nat

ATOMIC WEIGHT 2.0719+2		DENSITY 1.15E+1 GRAMS/CC							
ENERGY	T (CM)	CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)		
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORP (IN REMAINDER)	GAM-PROD.	TOTAL	LOCAL
1.307-9	2.634+0	2.642+0	1.150+1	1.100+1	4.969-1	4.969-1	3.177-1	6.011-6	
5.227-9	2.692+0	2.701+0	1.125+1	1.100+1	2.483-1	2.483-1	1.623-1	3.070-6	
2.091-8	2.712+0	2.721+0	1.117+1	1.100+1	1.655-1	1.655-1	1.089-1	2.062-6	
3.267-8	2.720+0	2.729+0	1.114+1	1.100+1	1.353-1	1.353-1	8.934-2	1.691-6	
4.704-8	2.727+0	2.736+0	1.111+1	1.100+1	1.065-1	1.065-1	7.050-2	1.335-6	
6.322-8	2.732+0	2.741+0	1.109+1	1.100+1	8.283-2	8.283-2	5.462-2	1.041-6	
1.307-7	2.733+0	2.742+0	1.108+1	1.101+1	6.768-2	6.768-2	4.488-2	8.517-7	
1.862-7	2.731+0	2.740+0	1.105+1	1.103+1	5.726-2	5.726-2	3.795-2	7.213-7	
2.561-7	2.729+0	2.738+0	1.110+1	1.105+1	4.961-2	4.961-2	3.286-2	6.258-7	
3.345-7	2.725+0	2.734+0	1.111+1	1.107+1	4.377-2	4.377-2	2.895-2	5.528-7	
4.234-7	2.721+0	2.730+0	1.113+1	1.109+1	3.936-2	3.936-2	2.599-2	4.979-7	
5.123-7	2.717+0	2.726+0	1.111+1	1.107+1	3.399-2	3.399-2	2.249-2	4.375-7	
7.527-7	2.743+0	2.752+0	1.104+1	1.101+1	2.762-2	2.762-2	1.838-2	3.596-7	
1.176-6	2.747+0	2.756+0	1.102+1	1.100+1	2.330-2	2.330-2	1.554-2	3.097-7	
1.511-6	2.746+0	2.755+0	1.102+1	1.100+1	2.014-2	2.014-2	1.343-2	2.747-7	
2.041-6	2.743+0	2.752+0	1.102+1	1.100+1	1.738-2	1.738-2	1.159-2	2.463-7	
2.741-6	2.749+0	2.758+0	1.104+1	1.107+1	1.523-2	1.523-2	1.016-2	2.267-7	
3.533-6	2.750+0	2.759+0	1.101+1	1.100+1	1.329-2	1.329-2	8.872-3	2.124-7	
4.704-6	2.750+0	2.759+0	1.101+1	1.100+1	1.183-2	1.183-2	7.899-3	2.049-7	
5.658-6	2.751+0	2.759+0	1.101+1	1.100+1	1.082-2	1.082-2	7.221-3	2.024-7	
6.737-6	2.751+0	2.760+0	1.101+1	1.100+1	9.820-3	9.820-3	6.556-3	2.032-7	
9.322-6	2.751+0	2.760+0	1.101+1	1.100+1	9.005-3	9.005-3	6.012-3	2.075-7	
9.622-6	2.751+0	2.760+0	1.101+1	1.107+1	8.407-3	8.407-3	5.614-3	2.134-7	
1.161-5	2.751+0	2.760+0	1.101+1	1.100+1	7.850-3	7.850-3	5.282-3	2.277-7	
1.307-5	2.751+0	2.760+0	1.101+1	1.100+1	7.453-3	7.453-3	4.910-3	2.358-7	
1.465-5	2.751+0	2.760+0	1.101+1	1.100+1	7.049-3	7.049-3	4.707-3	2.457-7	
1.581-5	2.752+0	2.761+0	1.101+1	1.100+1	6.754-3	6.754-3	4.511-3	2.564-7	
1.758-5	2.752+0	2.761+0	1.101+1	1.100+1	6.508-3	6.508-3	4.346-3	2.683-7	
1.982-5	2.752+0	2.761+0	1.101+1	1.100+1	6.256-3	6.256-3	4.178-3	2.809-7	
2.075-5	2.752+0	2.761+0	1.101+1	1.100+1	6.001-3	6.001-3	4.008-3	2.973-7	
2.277-5	2.752+0	2.761+0	1.101+1	1.100+1	5.799-3	5.799-3	3.873-3	3.116-7	
2.417-5	2.752+0	2.761+0	1.101+1	1.100+1	5.634-3	5.634-3	3.763-3	3.238-7	
2.561-5	2.752+0	2.761+0	1.101+1	1.100+1	5.497-3	5.497-3	3.671-3	3.356-7	
2.710-5	2.752+0	2.761+0	1.101+1	1.100+1	5.367-3	5.367-3	3.595-3	3.498-7	
2.862-5	2.752+0	2.761+0	1.101+1	1.100+1	5.267-3	5.267-3	3.518-3	3.600-7	
2.940-5	2.752+0	2.761+0	1.101+1	1.100+1	5.165-3	5.165-3	3.450-3	3.704-7	
3.039-5	2.752+0	2.761+0	1.101+1	1.100+1	5.017-3	5.017-3	3.351-3	3.806-7	
3.345-5	2.752+0	2.761+0	1.100+1	1.100+1	4.855-3	4.855-3	3.243-3	4.114-7	
3.601-5	2.752+0	2.761+0	1.100+1	1.100+1	4.691-3	4.691-3	3.133-3	4.349-7	
3.866-5	2.752+0	2.761+0	1.100+1	1.100+1	4.572-3	4.572-3	3.054-3	4.555-7	
4.046-5	2.752+0	2.761+0	1.100+1	1.100+1	4.484-3	4.484-3	2.995-3	4.726-7	
4.224-5	2.752+0	2.761+0	1.100+1	1.100+1	4.416-3	4.416-3	2.950-3	4.856-7	
4.329-5	2.752+0	2.761+0	1.100+1	1.100+1	4.323-3	4.323-3	2.888-3	5.034-7	
4.619-5	2.752+0	2.761+0	1.100+1	1.100+1	4.230-3	4.230-3	2.831-3	5.214-7	
4.717-5	2.752+0	2.761+0	1.100+1	1.100+1	4.183-3	4.183-3	2.794-3	5.355-7	
4.918-5	2.752+0	2.761+0	1.100+1	1.100+1	4.109-3	4.109-3	2.745-3	5.545-7	
5.123-5	2.752+0	2.761+0	1.100+1	1.100+1	4.033-3	4.033-3	2.695-3	5.739-7	
5.332-5	2.752+0	2.761+0	1.100+1	1.100+1	3.938-3	3.938-3	2.631-3	5.988-7	
5.654-5	2.752+0	2.761+0	1.100+1	1.100+1	3.871-3	3.871-3	2.586-3	6.191-7	
5.763-5	2.752+0	2.761+0	1.100+1	1.100+1	3.809-3	3.809-3	2.545-3	6.401-7	
6.097-5	2.752+0	2.761+0	1.100+1	1.100+1	3.731-3	3.731-3	2.493-3	6.660-7	
6.325-5	2.752+0	2.761+0	1.100+1	1.100+1	3.665-3	3.665-3	2.450-3	6.895-7	
6.557-5	2.752+0	2.761+0	1.100+1	1.100+1	3.618-3	3.618-3	2.417-3	7.051-7	
6.774-5	2.752+0	2.761+0	1.100+1	1.100+1	3.564-3	3.564-3	2.381-3	7.278-7	
7.023-5	2.752+0	2.761+0	1.100+1	1.100+1	3.512-3	3.512-3	2.347-3	7.508-7	
7.155-5	2.752+0	2.761+0	1.100+1	1.100+1	3.459-3	3.459-3	2.311-3	7.745-7	
7.527-5	2.752+0	2.761+0	1.100+1	1.100+1	3.392-3	3.392-3	2.267-3	8.041-7	
7.730-5	2.752+0	2.761+0	1.100+1	1.100+1	3.351-3	3.351-3	2.239-3	8.223-7	
7.928-5	2.752+0	2.761+0	1.100+1	1.100+1	3.313-3	3.313-3	2.214-3	8.468-7	
8.167-5	2.752+0	2.761+0	1.100+1	1.100+1	3.269-3	3.269-3	2.185-3	8.655-7	
8.443-5	2.752+0	2.761+0	1.100+1	1.100+1	3.214-3	3.214-3	2.148-3	8.976-7	
8.834-5	2.752+0	2.761+0	1.100+1	1.100+1	3.157-3	3.157-3	2.110-3	9.303-7	

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.0719+2		DENSITY 1.1360+1 GRAMS/CC									
ENERGY (MEV)		TTP (CM)		CROSS SECTION (BARNS)						ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD		TOTAL	LOCAL
9.159E-5	2.752E+0	2.761E+0	1.100E+0	1.100E+0	3.111E-3	3.111E-3	2.079E-3	9.567E-7			
9.385E-5	2.752E+0	2.761E+0	1.100E+0	1.100E+0	3.068E-3	3.068E-3	2.050E-3	9.836E-7			
9.615E-5	2.752E+0	2.761E+0	1.100E+0	1.100E+0	3.039E-3	3.039E-3	2.031E-3	1.004E-6			
9.811E-5	2.752E+0	2.761E+0	1.100E+0	1.100E+0	3.001E-3	3.001E-3	2.006E-3	1.032E-6			
1.025E-4	2.753E+0	2.761E+0	1.100E+0	1.100E+0	2.922E-3	2.922E-3	1.953E-3	1.089E-6			
1.099E-4	2.753E+0	2.761E+0	1.100E+0	1.100E+0	2.824E-3	2.824E-3	1.888E-3	1.121E-6			
1.176E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.739E-3	2.739E-3	1.851E-3	1.237E-6			
1.254E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.655E-3	2.655E-3	1.775E-3	1.315E-6			
1.334E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.582E-3	2.582E-3	1.726E-3	1.387E-6			
1.406E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.512E-3	2.512E-3	1.679E-3	1.471E-6			
1.511E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.433E-3	2.433E-3	1.627E-3	1.565E-6			
1.601E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.368E-3	2.368E-3	1.584E-3	1.653E-6			
1.694E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.308E-3	2.308E-3	1.544E-3	1.744E-6			
1.785E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.246E-3	2.246E-3	1.502E-3	1.838E-6			
1.887E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.191E-3	2.191E-3	1.466E-3	1.934E-6			
1.988E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	2.140E-3	2.140E-3	1.432E-3	2.032E-6			
2.091E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.976E-3	1.976E-3	1.323E-3	2.397E-6			
2.241E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.779E-3	1.779E-3	1.191E-3	2.967E-6			
3.267E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.645E-3	1.645E-3	1.102E-3	3.485E-6			
3.611E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.506E-3	1.506E-3	1.011E-3	4.182E-6			
4.704E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.415E-3	1.415E-3	9.501E-4	4.754E-6			
4.991E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.353E-3	1.353E-3	9.090E-4	5.216E-6			
5.658E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.293E-3	1.293E-3	8.695E-4	5.725E-6			
6.042E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.257E-3	1.257E-3	8.459E-4	6.068E-6			
6.367E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.207E-3	1.207E-3	8.130E-4	6.608E-6			
7.156E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.132E-3	1.132E-3	7.639E-4	7.555E-6			
8.322E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.067E-3	1.067E-3	7.214E-4	8.533E-6			
9.177E-4	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.013E-3	1.013E-3	6.661E-4	9.630E-6			
1.058E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	6.786E-4	1.152E-5			
1.397E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	6.822E-4	1.407E-5			
1.581E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	6.850E-4	1.686E-5			
1.982E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	6.880E-4	1.932E-5			
2.208E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	6.913E-4	2.322E-5			
2.561E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	6.949E-4	2.678E-5			
2.940E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	6.987E-4	3.060E-5			
3.345E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	7.026E-4	3.467E-5			
3.777E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	7.071E-4	3.899E-5			
4.234E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	7.168E-4	4.866E-5			
5.763E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	7.328E-4	6.468E-5			
7.527E-3	2.753E+0	2.762E+0	1.100E+0	1.100E+0	1.000E-3	1.000E-3	7.546E-4	8.649E-5			
1.025E-2	2.793E+0	2.803E+0	1.084E+0	1.084E+0	1.000E-3	1.000E-3	8.006E-4	1.229E-4			
1.511E-2	2.876E+0	2.900E+0	1.053E+0	1.053E+0	1.000E-3	1.000E-3	9.716E-4	1.73E-4			
2.091E-2	2.970E+0	3.012E+0	1.020E+0	1.013E+0	1.000E-3	1.000E-3	9.413E-4	2.271E-4			
2.646E-2	2.823E+0	2.879E+0	1.073E+0	1.073E+0	1.000E-3	1.000E-3	9.665E-4	2.814E-4			
3.267E-2	3.004E+0	3.081E+0	1.009E+0	1.009E+0	1.000E-3	1.000E-3	1.071E-3	3.423E-4			
3.953E-2	3.094E+0	3.197E+0	9.789E+0	9.789E+0	1.000E-3	1.000E-3	1.159E-3	4.086E-4			
4.704E-2	2.580E+0	2.705E+0	1.166E+0	1.165E+0	1.000E-3	1.000E-3	1.117E-3	4.866E-4			
5.761E-2	2.314E+0	3.060E+0	1.038E+0	1.038E+0	1.000E-3	1.000E-3	1.423E-3	5.919E-4			
7.002E-2	2.839E+0	2.997E+0	1.067E+0	1.067E+0	1.000E-3	1.000E-3	1.394E-3	7.054E-4			
8.322E-2	2.052E+0	3.246E+0	9.922E+0	9.921E+0	1.000E-3	1.000E-3	1.431E-3	8.827E-4			
9.891E-2	3.105E+0	3.332E+0	9.757E+0	9.751E+0	1.000E-3	1.000E-3	1.439E-3	1.029E-3			
1.317E-1	3.300E+0	3.630E+0	9.175E+0	9.178E+0	1.000E-3	1.000E-3	1.453E-3	1.359E-3			
1.620E-1	3.799E+0	4.312E+0	7.671E+0	7.970E+0	1.000E-3	1.000E-3	1.466E-3	2.59E-3			
2.075E-1	3.942E+0	4.511E+0	7.693E+0	7.662E+0	1.000E-3	1.000E-3	1.478E-3	2.874E-3			
2.417E-1	3.980E+0	4.616E+0	7.595E+0	7.594E+0	1.000E-3	1.000E-3	1.492E-3	3.141E-3			
2.710E-1	4.034E+0	4.703E+0	7.507E+0	7.506E+0	1.000E-3	1.000E-3	1.503E-3	3.363E-3			
2.940E-1	4.719E+0	5.513E+0	6.417E+0	6.416E+0	1.000E-3	1.000E-3	1.517E-3	3.785E-3			
3.345E-1	4.421E+0	5.197E+0	6.835E+0	6.834E+0	1.000E-3	1.000E-3	1.535E-3	4.056E-3			
3.777E-1	5.203E+0	6.175E+0	5.621E+0	5.620E+0	9.04E-4	9.04E-4	1.418E-3	3.276E-3			
4.234E-1	6.752E+0	8.218E+0	4.485E+0	4.485E+0	3.397E-4	3.397E-4	1.531E-3	3.759E-3			
5.123E-1	5.366E+0	6.115E+0	5.644E+0	5.636E+0	5.567E-5	7.553E-3	1.568E-2	4.687E-3			
6.325E-1	5.497E+0	6.163E+0	5.510E+0	5.453E+0	7.732E-5	5.702E-2	1.699E-1	1.204E-2			

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ENDL 175 Group Neutron Constants

82-Pb-Nat

ATOMIC WEIGHT 2.0719 ± 2			DENSITY 1.1360 ± 1 GRAMS/CC					
ENERGY	MF (CM)		CROSS SECTION (BARN)			ENERGY DEPOSIT (MEV)		
MEV.	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527-1	5.288-0	6.076-0	5.727-0	5.611-0	1.154-1	3.431-1	1.940-0	6.703-3
8.634-1	4.949-0	5.891-0	5.120-0	5.940-0	1.793-1	5.345-1	2.713-0	7.544-3
1.005-0	5.526-0	6.693-0	5.481-0	5.201-0	2.802-1	8.330-1	4.517-0	8.340-3
1.175-0	5.629-0	6.983-0	5.380-0	4.975-0	4.057-1	1.201-0	6.769-0	9.163-3
1.339-0	5.738-0	7.254-0	5.306-0	4.767-0	5.395-1	1.597-0	9.350-0	9.930-3
1.511-0	5.714-0	7.444-0	5.300-0	4.618-0	6.817-1	2.036-0	1.298-0	1.065-2
1.694-0	5.634-0	7.530-0	5.375-0	4.543-0	8.322-1	2.497-0	1.799-0	1.135-2
1.887-0	5.452-0	7.401-0	5.555-0	4.570-0	9.895-1	2.917-0	2.385-0	1.200-2
2.091-0	5.171-0	7.353-0	5.857-0	4.754-0	1.103-0	3.137-0	2.817-0	1.262-2
2.305-0	4.687-0	7.220-0	6.197-0	4.980-0	1.217-0	3.459-0	3.236-0	1.339-2
2.530-0	4.634-0	6.966-0	6.535-0	5.205-0	1.330-0	3.749-0	3.687-0	1.420-2
2.741-0	4.384-0	6.666-0	6.908-0	5.452-0	1.455-0	4.091-0	4.215-0	1.510-2
3.011-0	4.200-0	6.471-0	7.211-0	5.619-0	1.592-0	4.389-0	4.843-0	1.609-2
3.267-0	4.082-0	6.357-0	7.420-0	5.692-0	1.728-0	4.616-0	5.523-0	1.642-2
3.543-0	3.965-0	6.233-0	7.638-0	5.768-0	1.869-0	4.872-0	6.252-0	1.598-2
3.811-0	3.859-0	6.091-0	7.847-0	5.833-0	2.009-0	5.137-0	7.015-0	1.528-2
4.063-0	3.800-0	5.975-0	8.059-0	5.809-0	2.161-0	5.470-0	8.004-0	1.523-2
4.396-0	3.787-0	5.882-0	8.288-0	5.702-0	2.295-0	5.784-0	9.142-0	1.594-2
4.704-0	3.878-0	5.785-0	8.509-0	5.466-0	2.323-0	5.879-0	1.016-0	1.667-2
4.991-0	4.008-0	5.782-0	8.757-0	5.212-0	2.345-0	6.029-0	1.137-0	1.745-2
5.353-0	4.165-0	5.811-0	9.005-0	4.905-0	2.367-0	6.243-0	1.276-0	1.823-2
5.658-0	4.340-0	5.892-0	9.278-0	4.588-0	2.390-0	6.468-0	1.434-0	1.908-2
6.044-0	4.537-0	5.974-0	9.576-0	4.266-0	2.414-0	6.698-0	1.615-0	1.996-2
6.367-0	4.740-0	6.065-0	9.879-0	3.942-0	2.437-0	6.920-0	1.814-0	2.065-2
6.737-0	5.002-0	6.290-0	10.055-0	3.592-0	2.463-0	7.171-0	2.050-0	2.197-2
7.156-0	5.200-0	6.475-0	10.204-0	3.334-0	2.490-0	7.431-0	2.288-0	2.312-2
7.546-0	5.389-0	6.554-0	10.420-0	3.115-0	2.505-0	7.630-0	2.425-0	2.531-2
7.910-0	5.559-0	6.633-0	10.648-0	2.935-0	2.512-0	7.799-0	2.499-0	2.701-2
8.322-0	5.670-0	6.666-0	10.847-0	2.821-0	2.521-0	7.967-0	2.549-0	2.882-2
8.787-0	5.795-0	6.695-0	11.041-0	2.711-0	2.536-0	8.100-0	2.609-0	3.064-2
9.177-0	5.896-0	6.731-0	11.237-0	2.598-0	2.538-0	8.206-0	2.677-0	3.253-2
9.665-0	6.022-0	6.765-0	11.426-0	2.481-0	2.548-0	8.235-0	2.747-0	3.459-2
1.012-1	6.066-0	6.770-0	11.613-0	2.443-0	2.550-0	7.963-0	2.604-0	3.610-2
1.058-1	6.077-0	6.760-0	11.794-0	2.434-0	2.550-0	7.635-0	2.402-0	3.736-2
1.101-1	6.027-0	6.754-0	11.975-0	2.475-0	2.550-0	7.330-0	2.140-0	3.856-2
1.155-1	5.935-0	6.777-0	12.153-0	2.553-0	2.550-0	7.024-0	1.990-0	3.954-2
1.193-1	5.852-0	6.805-0	12.329-0	2.629-0	2.546-0	6.873-0	1.920-0	4.064-2
1.250-1	5.767-0	6.858-0	12.502-0	2.715-0	2.537-0	6.862-0	1.962-0	4.154-2
1.307-1	5.717-0	6.945-0	12.679-0	2.769-0	2.526-0	6.893-0	2.024-0	4.233-2
1.354-1	5.698-0	7.003-0	12.851-0	2.794-0	2.522-0	6.952-0	2.078-0	4.298-2
1.395-1	5.683-0	7.009-0	13.029-0	2.812-0	2.517-0	7.003-0	2.118-0	4.344-2
1.413-1	5.664-0	7.012-0	13.204-0	2.829-0	2.518-0	7.050-0	2.152-0	4.390-2
1.441-1	5.634-0	7.012-0	13.376-0	2.846-0	2.530-0	7.116-0	2.182-0	4.441-2
1.468-1	5.609-0	7.010-0	13.549-0	2.854-0	2.546-0	7.298-0	2.224-0	4.523-2
1.519-1	5.605-0	7.009-0	13.723-0	2.859-0	2.544-0	7.556-0	2.159-0	4.644-2
1.575-1	5.641-0	7.022-0	13.898-0	2.865-0	2.503-0	7.654-0	1.905-0	4.747-2
1.633-1	5.634-0	7.029-0	14.073-0	2.888-0	2.487-0	7.888-0	1.835-0	4.745-2
1.692-1	5.569-0	7.033-0	14.249-0	2.897-0	2.482-0	7.992-0	1.806-0	4.795-2
1.752-1	5.491-0	7.033-0	14.424-0	3.029-0	2.486-0	8.109-0	1.834-0	5.095-2
1.813-1	5.413-0	7.034-0	14.599-0	3.106-0	2.490-0	8.323-0	1.851-0	5.157-2
1.875-1	5.297-0	7.032-0	14.774-0	3.222-0	2.496-0	8.663-0	1.859-0	5.261-2
2.000-1								
RESONANCE INTEGRALS			1.678-2	1.623-2	8.140-2	5.402-0	1.569-1	
MAXWELLIAN AVERAGES			1.115-1	1.100-1	1.505-1	1.505-1		
1/E AVERAGES			9.506-0	9.273-0	~ 50-3	3.086-1	8.964-1	
FISSION AVERAGES			6.291-0	5.405-0	1.171-4	8.848-1	2.461-0	
FUSION AVERAGES			5.338-0	2.815-0		2.522-0	7.025-0	

04/12/76

ENDL 175 Group Neutron Constants

90-Th-231

MeV/Collision

Barns

04/12/76

ENDL 175 Group Neutron Constants

90-Th-232

04 12 '66

ENDL 175 Group Neutron Constants

90-TH-232

ATOMIC WEIGHTS 2.52044 P				DENSITY 1.6600 1 GRAMS/CC						
ENERGY		MED. TIME		CROSS SECTION (BARN)				ENERGY OF POSITIVE IONS		
MEV	CM	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	DISSECTION	% DAM REMAINDER	DAM PROD	TOTAL	LOCAL
0.000	0.000	0.000	1.467	1.268	2.199	1.385	2	1.038	0	3.345
0.001	0.001	0.001	1.467	1.189	1.094	6.894	1	2.295	0	5.972
0.002	0.002	0.002	1.467	1.189	1.094	5.474	1	1.818	0	2.007
0.003	0.003	0.003	1.467	1.189	1.094	4.254	1	1.593	0	1.755
0.004	0.004	0.004	1.467	1.189	1.094	3.903	1	1.500	0	1.477
0.005	0.005	0.005	1.467	1.189	1.094	3.574	1	1.099	0	1.212
0.006	0.006	0.006	1.467	1.189	1.094	3.281	1	0.923	1	1.021
0.007	0.007	0.007	1.467	1.189	1.094	3.014	1	0.793	0	0.760
0.008	0.008	0.008	1.467	1.189	1.094	2.764	1	0.687	1	0.625
0.009	0.009	0.009	1.467	1.189	1.094	2.534	1	0.604	1	0.607
0.010	0.010	0.010	1.467	1.189	1.094	2.314	1	0.536	1	0.572
0.012	0.012	0.012	1.467	1.189	1.094	1.974	1	0.510	0	0.028
0.015	0.015	0.015	1.467	1.189	1.094	1.556	0	0.420	1	0.000
0.020	0.020	0.020	1.467	1.189	1.094	1.143	0	0.254	1	0.007
0.030	0.030	0.030	1.467	1.189	1.094	0.729	0	0.088	1	0.399
0.040	0.040	0.040	1.467	1.189	1.094	0.517	0	0.581	1	0.846
0.050	0.050	0.050	1.467	1.189	1.094	0.410	0	0.221	1	1.177
0.060	0.060	0.060	1.467	1.189	1.094	0.334	0	0.128	2	1.177
0.070	0.070	0.070	1.467	1.189	1.094	0.281	0	0.058	0	0.968
0.080	0.080	0.080	1.467	1.189	1.094	0.241	0	0.032	1	0.707
0.090	0.090	0.090	1.467	1.189	1.094	0.210	0	0.177	0	0.573
0.100	0.100	0.100	1.467	1.189	1.094	0.187	0	0.132	0	0.477
0.120	0.120	0.120	1.467	1.189	1.094	0.155	0	0.081	2	0.388
0.150	0.150	0.150	1.467	1.189	1.094	0.123	0	0.044	2	0.318
0.200	0.200	0.200	1.467	1.189	1.094	0.089	0	0.030	2	0.255
0.300	0.300	0.300	1.467	1.189	1.094	0.055	0	0.016	2	0.187
0.400	0.400	0.400	1.467	1.189	1.094	0.038	0	0.009	2	0.143
0.500	0.500	0.500	1.467	1.189	1.094	0.027	0	0.006	2	0.110
0.600	0.600	0.600	1.467	1.189	1.094	0.020	0	0.004	2	0.087
0.700	0.700	0.700	1.467	1.189	1.094	0.016	0	0.003	2	0.070
0.800	0.800	0.800	1.467	1.189	1.094	0.013	0	0.002	2	0.058
0.900	0.900	0.900	1.467	1.189	1.094	0.011	0	0.001	2	0.049
1.000	1.000	1.000	1.467	1.189	1.094	0.009	0	0.001	2	0.042
1.200	1.200	1.200	1.467	1.189	1.094	0.007	0	0.001	2	0.035
1.500	1.500	1.500	1.467	1.189	1.094	0.005	0	0.001	2	0.028
2.000	2.000	2.000	1.467	1.189	1.094	0.003	0	0.001	2	0.021
3.000	3.000	3.000	1.467	1.189	1.094	0.002	0	0.000	2	0.014
4.000	4.000	4.000	1.467	1.189	1.094	0.001	0	0.000	2	0.007
5.000	5.000	5.000	1.467	1.189	1.094	0.001	0	0.000	2	0.004
6.000	6.000	6.000	1.467	1.189	1.094	0.001	0	0.000	2	0.002
7.000	7.000	7.000	1.467	1.189	1.094	0.001	0	0.000	2	0.001
8.000	8.000	8.000	1.467	1.189	1.094	0.001	0	0.000	2	0.000
9.000	9.000	9.000	1.467	1.189	1.094	0.001	0	0.000	2	0.000
10.000	10.000	10.000	1.467	1.189	1.094	0.001	0	0.000	2	0.000

IN 11-79

END-175 Group Neutron Constants

90-Th-233

Barns

Mev/Collision

Barns

04/12/76

ENDL 175 Group Neutron Constants

90-Th-233

ATOMIC WEIGHT 2.3305 ± 2										DENSITY 1.1711 ± 1 GRAMS/CC									
ENERGY MEV	MFP (CM)			CROSS SECTION (BARNS)							ENERGY DEPOSIT (MEV)								
	TOTAL	TRANSPORT		TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL							
1.307-9	7.923-3	7.073-3	4.171+3	1.100-	4.116+3	4.410+1	2.020-0		3.392-4	7.959+0	7.781+0								
5.227-9	1.581-2	1.581-2	2.030+3	1.100-	2.057+3	2.204+1	2.020-0		1.690-4	7.938+0	7.776+0								
2.091-8	2.367-2	2.367-2	1.396+3	1.100-	1.370+3	1.468+1	2.020-0		1.126-4	7.917+0	7.772+0								
3.267-8	2.893-2	2.893-2	1.142+3	1.100-	1.119+3	1.199+1	2.020-0		9.196-3	7.903+0	7.769+0								
4.704-8	3.674-2	3.674-2	8.995+2	1.100-	8.791+2	9.418+0	2.020-0		7.222-3	7.882+0	7.764+0								
8.722-8	4.718-2	4.718-2	7.005+2	1.100-	6.822+2	7.309+0	2.020-0		5.660-3	7.875+0	7.760+0								
5.754-7	5.754-2	5.754-2	5.743+2	1.100-	5.573+2	5.971+0	2.020-0		7.759-3	7.873+0	7.759+0								
1.882-7	6.777-2	6.777-2	4.876+2	1.100-	4.716+2	5.053+0	2.020-0		3.874-3	7.860+0	7.746+0								
2.551-7	7.794-2	7.794-2	4.240+2	1.100-	4.086+2	4.378+0	2.020-0		3.357-3	7.773+0	7.740+0								
3.345-7	8.603-2	8.603-2	3.754+2	1.100-	3.605+2	3.863+0	2.020-0		2.962-3	7.746+0	7.734+0								
4.234-7	9.752-2	9.752-2	3.389+2	1.100-	3.244+2	3.476+0	2.020-0		2.455-3	7.721+0	7.720+0								
5.123-7	1.122-1	1.122-1	2.946+2	1.100-	2.806+2	3.006+0	2.020-0		2.305-3	7.694+0	7.714+0								
7.527-7	1.272-1	1.272-1	2.408+2	1.100-	2.274+2	2.436+0	2.020-0		1.868-3	7.615+0	7.704+0								
1.176-6	1.613-1	1.613-1	2.049+2	1.100-	1.918+2	2.055+0	2.020-0		1.576-3	7.551+0	7.650+0								
1.511-6	1.849-1	1.850-1	1.787+2	1.100-	1.659+2	1.777+0	2.020-0		1.363-3	7.489+0	7.676+0								
2.091-6	1.970-1	1.971-1	1.677+2	1.116-	1.544+2	2.150+0	2.020-0		1.272-3	7.494+0	7.610+0								
2.741-6	9.001-2	9.002-2	3.671+2	1.335-	3.367+2	1.712+1	2.020-0		2.862-3	1.387+1	7.896+0								
3.533-6	3.393-2	3.394-2	9.738+2	1.690-	9.373+2	1.957+1	2.020-0		7.759-3	9.484+0	3.389+0								
4.704-6	1.796-2	1.716-2	1.840+3	1.973-	1.801+3	1.916+1	0.020-0		1.479-3	7.882+0	1.754+0								
5.658-6	1.764-2	1.714-2	1.873+3	1.962-	1.835+3	1.888+1	0.020-0		1.507-4	7.827+0	1.699+0								
6.737-6	1.798-2	1.718-2	1.837+3	1.688-	1.800+3	1.860+1	0.020-0		1.478-4	7.835+0	1.705+0								
9.322-6	1.833-2	1.813-2	1.603+3	1.811-	1.766+3	1.830+1	0.020-0		1.451-4	7.840+0	1.710+0								
9.620-6	1.855-2	1.855-2	1.782+3	1.810-	1.745+3	1.810+1	0.020-0		1.434-4	7.842+0	1.712+0								
1.101-5	1.683-2	1.683-2	1.755+3	1.770-	1.720+3	1.788+1	0.020-0		1.411-4	7.847+0	1.716+0								
1.307-5	1.912-2	1.912-2	1.728+3	1.729-	1.693+3	1.765+1	0.020-0		1.351-4	7.852+0	1.721+0								
1.468-5	1.926-2	1.928-2	1.714+3	1.717-	1.679+3	1.752+1	0.020-0		1.379-4	7.854+0	1.722+0								
1.581-5	1.944-2	1.944-2	1.700+3	1.689-	1.666+3	1.740+1	0.020-0		1.368-4	7.856+0	1.724+0								
1.758-5	1.960-2	1.960-2	1.686+3	1.667-	1.652+3	1.728+1	0.020-0		1.357-4	7.859+0	1.726+0								
1.882-5	1.977-2	1.977-2	1.571+3	1.645-	1.638+3	1.715+1	0.020-0		1.345-4	7.861+0	1.729+0								
2.075-5	1.997-2	1.997-2	1.655+3	1.620-	1.621+3	1.701+1	0.020-0		1.332-4	7.865+0	1.731+0								
2.277-5	2.010-2	2.010-2	1.644+3	1.604-	1.611+3	1.692+1	0.020-0		1.323-4	7.867+0	1.734+0								
2.417-5	2.021-2	2.021-2	1.635+3	1.592-	1.603+3	1.665+1	0.020-0		1.316-4	7.869+0	1.736+0								
2.561-5	2.032-2	2.032-2	1.626+3	1.579-	1.594+3	1.674+1	0.020-0		1.309-4	7.871+0	1.738+0								
2.710-5	2.043-2	2.043-2	1.617+3	1.568-	1.585+3	1.670+1	0.020-0		1.302-4	7.873+0	1.739+0								
2.862-5	2.052-2	2.052-2	1.610+3	1.556-	1.578+3	1.664+1	0.020-0		1.296-4	7.874+0	1.741+0								
3.040-5	2.061-2	2.062-2	1.603+3	1.546-	1.571+3	1.658+1	0.020-0		1.291-4	7.876+0	1.743+0								
3.099-5	2.074-2	2.074-2	1.594+3	1.531-	1.562+3	1.647+1	0.020-0		1.283-4	7.876+0	1.741+0								
3.345-5	2.087-2	2.087-2	1.583+3	1.517-	1.552+3	1.637+1	0.020-0		1.275-4	7.876+0	1.742+0								
3.601-5	2.102-2	2.102-2	1.572+3	1.502-	1.541+3	1.628+1	0.020-0		1.266-4	7.880+0	1.745+0								
3.856-5	2.114-2	2.114-2	1.563+3	1.489-	1.532+3	1.621+1	0.020-0		1.259-4	7.882+0	1.748+0								
4.048-5	2.124-2	2.124-2	1.555+3	1.478-	1.525+3	1.615+1	0.020-0		1.252-4	7.885+0	1.750+0								
4.234-5	2.132-2	2.132-2	1.550+3	1.470-	1.519+3	1.611+1	0.020-0		1.249-4	7.887+0	1.751+0								
4.329-5	2.141-2	2.141-2	1.544+3	1.460-	1.513+3	1.605+1	0.020-0		1.243-4	7.887+0	1.751+0								
4.619-5	2.149-2	2.149-2	1.538+3	1.452-	1.507+3	1.598+1	0.020-0		1.238-4	7.886+0	1.751+0								
4.717-5	2.155-2	2.155-2	1.534+3	1.446-	1.503+3	1.594+1	0.020-0		1.235-4	7.886+0	1.751+0								
4.918-5	2.163-2	2.163-2	1.528+3	1.438-	1.497+3	1.587+1	0.020-0		1.230-4	7.886+0	1.751+0								
5.123-5	2.172-2	2.172-2	1.522+3	1.430-	1.492+3	1.583+1	0.020-0		1.225-4	7.888+0	1.752+0								
5.332-5	2.183-2	2.183-2	1.514+3	1.420-	1.484+3	1.577+1	0.020-0		1.224-4	7.891+0	1.754+0								
5.654-5	2.192-2	2.192-2	1.508+3	1.411-	1.478+3	1.573+1	0.020-0		1.214-4	7.893+0	1.757+0								
5.763-5	2.200-2	2.200-2	1.502+3	1.402-	1.473+3	1.568+1	0.020-0		1.210-4	7.894+0	1.758+0								
6.097-5	2.207-2	2.207-2	1.497+3	1.393-	1.467+3	1.562+1	0.020-0		1.206-4	7.894+0	1.758+0								
6.325-5	2.214-2	2.214-2	1.493+3	1.386-	1.463+3	1.557+1	0.020-0		1.202-4	7.894+0	1.757+0								
6.557-5	2.218-2	2.218-2	1.490+3	1.382-	1.460+3	1.553+1	0.020-0		1.200-4	7.893+0	1.757+0								
6.774-5	2.225-2	2.225-2	1.485+3	1.375-	1.456+3	1.549+1	0.020-0		1.197-4	7.893+0	1.757+0								
7.034-5	2.231-2	2.232-2	1.481+3	1.368-	1.452+3	1.543+1	0.020-0		1.193-4	7.892+0	1.756+0								
7.155-5	2.238-2	2.238-2	1.476+3	1.362-	1.447+3	1.539+1	0.020-0		1.189-4	7.893+0	1.756+0								
7.527-5	2.247-2	2.247-2	1.471+3	1.353-	1.442+3	1.534+1	0.020-0		1.185-4	7.895+0	1.758+0								
7.780-5	2.252-2	2.252-2	1.467+3	1.348-	1.438+3	1.532+1	0.020-0		1.182-4	7.896+0	1.759+0								
7.909-5	2.258-2	2.258-2	1.464+3	1.342-	1.435+3	1.529+1	0.020-0		1.179-4	7.897+0	1.760+0								
8.167-5	2.265-2	2.265-2	1.459+3	1.336-	1.430+3	1.525+1	0.020-0		1.176-4	7.898+0	1.761+0								
8.431-5	2.274-2	2.275-2	1.453+3	1.329-	1.424+3	1.520+1	0.020-0		1.170-4	7.900+0	1.763+0								
8.834-5	2.284-2	2.284-2	1.447+3	1.323-	1.418+3	1.515+1	0.020-0		1.165-4	7.902+0	1.764+0								

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ATOMIC WEIGHT 2.3305 ± 2				T 175 1.7111 ± 1 GRAMS/CC										ENERGY DEPOSIT (MEV)	
ENERGY	MEV	MFP (CM)		CROSS SECTION (BARN)											
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMANINER	GAM-PROD.	TOTAL	LOCAL			
7.527	1	4.241	0.644	7.773	4.910	1.519	1.110	2.111	2.598	0.755	2.806	2.423			
8.834	1	4.579	0.695	7.222	4.236	1.582	1.176	2.129	2.711	0.919	3.229	2.763			
1.065	0	4.644	0.719	6.822	3.769	1.490	1.200	2.166	2.783	0.924	3.522	2.987			
1.176	0	5.019	0.739	6.584	3.488	1.517	1.200	2.164	2.834	0.936	3.686	3.094			
1.330	0	5.127	0.754	6.446	3.366	1.533	1.200	2.183	2.866	0.938	3.803	3.160			
1.511	0	5.245	0.773	6.301	3.246	1.577	1.200	2.209	2.841	0.946	3.929	3.231			
1.694	0	5.269	0.787	6.253	3.224	1.577	1.200	2.225	2.836	0.953	3.998	3.252			
1.987	0	5.281	0.799	6.257	3.254	1.518	1.200	2.248	2.830	0.955	4.040	3.245			
2.091	0	5.200	0.825	6.332	3.339	1.436	1.200	2.272	2.824	0.930	4.058	3.209			
2.305	0	5.148	0.806	6.419	3.438	1.443	1.200	2.297	2.817	0.900	4.071	3.163			
2.530	0	5.078	0.810	6.508	3.535	1.453	1.200	2.322	2.811	0.772	4.087	3.120			
2.741	0	5.005	0.811	6.603	3.641	1.462	1.200	2.349	2.804	0.630	4.105	3.075			
3.011	0	4.931	0.818	6.701	3.756	1.482	1.200	2.380	2.791	0.500	4.129	3.029			
3.267	0	4.865	0.843	6.787	3.872	1.493	1.200	2.409	2.773	0.392	4.157	2.990			
3.533	0	4.800	0.861	6.869	3.984	1.501	1.200	2.441	2.759	0.281	4.216	2.971			
3.811	0	4.717	0.903	6.860	3.976	1.511	1.200	2.471	2.758	0.174	4.276	2.955			
4.069	0	4.601	0.974	6.883	4.025	1.522	1.200	2.505	2.748	0.050	4.351	2.943			
4.396	0	4.477	0.917	6.860	4.027	1.531	1.200	2.541	2.697	0.020	4.459	2.950			
4.704	0	4.367	0.990	6.790	3.985	1.543	1.200	2.575	2.672	0.000	4.572	2.978			
4.991	0	4.267	0.957	6.653	3.927	1.554	1.200	2.612	2.596	0.000	4.515	3.037			
5.255	0	4.180	0.921	6.643	3.866	1.566	1.200	2.652	2.637	0.000	4.170	3.045			
5.659	0	4.078	0.934	6.508	3.770	1.579	1.200	2.700	2.608	0.000	4.068	3.115			
6.042	0	4.011	0.958	6.402	3.657	1.591	1.200	2.751	2.576	0.000	5.247	4.220			
6.367	0	3.944	0.983	6.302	3.545	1.604	1.200	2.800	2.523	0.000	7.133	5.989			
6.737	0	3.885	1.019	6.128	3.417	1.617	1.200	2.855	2.463	0.000	7.761	6.524			
7.156	0	3.825	1.031	5.981	3.286	1.630	1.200	2.912	2.400	0.000	8.014	6.639			
7.548	0	3.764	1.038	5.857	3.163	1.642	1.200	2.966	2.351	0.000	8.273	6.737			
7.910	0	3.705	1.045	5.732	3.039	1.655	1.200	3.021	2.301	0.000	8.548	6.840			
8.322	0	3.646	1.051	5.619	2.928	1.668	1.200	3.077	2.252	0.000	8.801	6.925			
8.787	0	3.587	1.055	5.519	2.829	1.679	1.200	3.132	2.203	0.000	9.049	7.000			
9.177	0	3.528	1.060	5.416	2.728	1.690	1.200	3.187	2.154	0.000	9.295	7.080			
9.665	0	3.469	1.065	5.320	2.633	1.701	1.200	3.242	2.105	0.000	9.608	7.149			
1.012	1	3.410	1.068	5.270	2.565	1.712	1.200	3.297	2.056	0.000	9.776	7.159			
1.058	1	3.351	1.072	5.224	2.500	1.723	1.200	3.352	2.007	0.000	9.924	7.165			
1.101	1	3.292	1.077	5.173	2.435	1.734	1.200	3.407	1.958	0.000	1.005	7.174			
1.155	1	3.233	1.082	5.123	2.370	1.745	1.200	3.462	1.909	0.000	9.976	7.251			
1.199	1	3.174	1.087	5.073	2.305	1.756	1.200	3.517	1.860	0.000	1.014	7.208			
1.250	1	3.115	1.092	5.023	2.240	1.767	1.200	3.572	1.811	0.000	1.233	1.007			
1.307	1	3.056	1.097	4.973	2.175	1.778	1.200	3.627	1.762	0.000	1.334	1.105			
1.354	1	3.000	1.102	4.923	2.110	1.789	1.200	3.682	1.713	0.000	1.329	1.096			
1.398	1	2.941	1.107	4.873	2.045	1.800	1.200	3.737	1.664	0.000	1.327	1.090			
1.441	1	2.882	1.112	4.823	1.980	1.811	1.200	3.792	1.615	0.000	1.324	1.082			
1.486	1	2.823	1.117	4.773	1.915	1.822	1.200	3.847	1.566	0.000	1.320	1.074			
1.519	1	2.764	1.122	4.723	1.850	1.833	1.200	3.902	1.517	0.000	1.315	1.066			
1.575	1	2.705	1.127	4.673	1.785	1.844	1.200	3.957	1.468	0.000	1.313	1.049			
1.633	1	2.646	1.132	4.623	1.720	1.855	1.200	4.012	1.419	0.000	1.311	1.033			
1.692	1	2.587	1.137	4.573	1.655	1.866	1.200	4.067	1.370	0.000	1.308	1.021			
1.752	1	2.528	1.142	4.523	1.590	1.877	1.200	4.122	1.321	0.000	1.295	1.010			
1.813	1	2.469	1.147	4.473	1.525	1.888	1.200	4.177	1.272	0.000	1.293	1.070			
1.875	1	2.410	1.152	4.423	1.460	1.899	1.200	4.232	1.223	0.000	1.292	1.071			
2.000	1	2.291	1.157	4.373	1.395	1.910	1.200	4.287	1.174	0.000	1.291	1.072			
RESONANCE INTEGRALS				6.493	3	1.830	2	6.215	3	8.392	1	1.076	5.122		
MAXWELLIAN AVERAGES				1.269	3	1.100	1	1.245	3	1.334	1	2.020	0		
1/E AVERAGES				3.709	2	1.045	1	3.551	2	4.794	0	2.266	3		
FISSION AVERAGES				7.202	4	4.471	0	9.902	2	1.282	2	2.073	0		
FISSION AVERAGES				5.146	0	2.559	0	1.506	3	3.375	1	3.821	0		

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.3304 2						DENSITY 1.8600 1 GRAMS/CC							
ENERGY	MEV		H.P. (CM)		CROSS SECTION (BARN)						ENERGY DEPOSITION		
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU BAR	REMAINDER	GAM-PROD	TOTAL	LOCAL		
5.207	9	7.707	2.399	1.476	1.883	2.186	3	2.453	0	1.755	1.607	1.533	
5.277	9	2.152	2.152	9.666	2	1.463	7.584	2	2.453	0	7.036	3	5.191
2.091	8	3.626	2.626	5.738	2	1.443	4.503	5	1.44	2.453	4.135	3	1.502
3.267	9	4.414	2.415	4.713	2	1.424	3.725	4	1.98	2.453	3.380	3	1.932
4.704	9	5.572	2.578	3.730	2	1.398	3.024	3	2.07	2.453	2.657	3	1.777
6.362	8	7.150	2.715	2.910	2	1.369	2.667	1	2.508	2.453	2.058	3	1.443
6.307	8	8.374	2.876	2.484	2	1.348	2.713	1	2.078	2.453	1.752	3	1.402
1.882	7	9.352	2.951	2.225	2	1.323	2.051	1	1.887	2.453	1.553	3	1.212
2.581	7	1.067	2.067	1.950	2	1.304	1.445	1	1.675	2.453	1.345	3	1.392
3.345	7	1.187	2.187	1.753	2	1.289	1.208	1	1.503	2.453	1.199	3	1.437
4.234	7	1.291	2.291	1.612	2	1.273	1.055	1	1.379	2.453	1.095	3	1.506
5.123	7	1.431	2.431	1.445	2	1.249	9.379	0	1.235	2.453	9.803	2	1.424
7.527	6	1.344	2.344	1.508	2	1.211	1.113	1	1.315	2.453	1.094	3	1.493
1.176	6	6.846	2.847	2.039	2	1.079	3.284	1	2.593	2.453	2.185	3	1.430
1.511	6	3.278	2.278	2.637	2	1.226	1.025	2	1.159	2.453	4.694	3	1.372
2.091	6	6.392	2.392	2.355	2	1.432	1.142	2	1.993	2.453	2.454	3	1.026
2.741	6	2.201	2.202	1.945	2	1.261	8.773	0	7.313	2.453	6.094	2	1.286
3.533	6	1.867	2.867	1.114	2	1.261	1.183	1	1.697	2.453	7.372	2	1.308
4.704	6	2.294	2.295	1.969	1	1.223	4.439	0	7.402	2.453	5.767	2	1.368
5.658	6	1.142	2.142	1.821	2	1.124	2.485	1	1.462	2.453	1.288	3	1.345
6.737	6	1.403	2.403	1.492	2	1.463	3.019	1	1.037	2.453	1.022	3	1.169
6.322	6	3.221	3.223	1.459	1	1.226	6.170	0	4.616	2.453	3.993	2	1.197
9.620	6	6.629	2.630	2.411	2	1.351	3.308	1	1.945	2.453	1.709	3	1.352
1.121	5	1.200	1.421	1.465	2	1.223	1.303	1	1.212	2.453	9.964	2	1.387
1.377	5	3.000	3.001	6.936	1	1.355	8.630	0	4.718	2.453	4.199	2	1.140
1.468	5	1.529	1.530	1.360	2	1.187	3.265	1	9.351	2.453	9.544	2	1.152
1.581	5	1.829	1.830	1.137	2	1.330	1.362	1	8.680	2.453	7.521	2	1.219
1.750	5	1.834	1.835	1.134	2	1.181	1.742	8	8.19	2.453	7.675	2	1.244
1.882	5	1.625	1.625	1.280	2	1.327	1.345	1	1.013	2.453	8.559	2	1.326
2.075	5	9.982	2.983	2.316	2	1.307	2.688	1	1.917	2.453	1.632	3	1.387
2.277	5	2.144	2.145	9.703	1	1.577	4.197	0	7.707	2.453	5.966	2	1.331
2.477	5	2.553	2.554	8.150	1	1.308	6.387	0	6.135	2.453	5.015	2	1.259
2.581	5	2.991	2.993	6.956	1	1.754	4.215	5	5.99	2.453	4.077	2	1.228
2.710	5	3.480	3.483	5.978	1	1.362	3.279	0	4.288	2.453	3.405	2	1.202
2.862	5	1.720	1.721	1.210	2	1.355	7.268	0	1.001	2.453	7.315	2	1.387
2.940	5	3.259	3.257	6.391	1	1.407	5.555	0	4.428	2.453	3.711	2	1.161
3.099	5	2.537	2.538	8.201	1	1.399	6.336	6	6.168	2.453	5.443	2	1.260
3.345	5	2.554	2.555	8.147	1	1.418	2.320	6	6.497	2.453	4.919	2	1.336
3.621	5	3.754	3.757	5.542	1	1.477	4.897	3	3.576	2.453	3.033	2	1.081
3.865	5	3.814	3.817	5.455	1	1.447	1.691	3	3.840	2.453	2.936	2	1.179
4.048	5	4.920	4.925	4.228	1	1.421	2.952	2	2.512	2.453	2.088	2	9.955
4.234	5	5.782	3.785	5.501	1	1.412	6.783	0	3.111	2.453	3.085	2	1.039
4.329	5	6.341	6.349	3.281	1	1.400	2.507	1	1.630	2.453	1.408	2	8.327
4.619	5	5.207	5.312	3.921	1	1.391	1.897	0	2.340	2.453	1.868	2	1.000
4.704	5	5.019	2.817	7.390	1	1.384	1.567	1	4.440	2.453	4.632	2	1.007
4.919	5	6.171	6.178	3.371	1	1.376	1.011	1	1.895	2.453	1.455	2	9.915
5.123	5	5.931	5.938	3.508	1	1.357	2.131	1	1.928	2.453	1.500	2	9.209
5.332	5	2.396	2.397	8.684	1	1.356	7.249	0	6.603	2.453	5.441	2	1.274
5.654	5	2.137	2.137	9.737	1	1.347	4.445	0	7.946	2.453	6.162	2	1.367
5.633	5	3.612	3.614	5.761	1	1.338	4.258	3	3.997	2.453	3.282	2	1.163
6.297	5	3.471	3.473	5.994	1	1.329	7.170	0	3.948	2.453	3.509	2	1.104
6.425	5	3.617	3.620	5.751	1	1.323	6.299	0	3.799	2.453	3.322	2	1.107
6.587	5	3.656	3.659	5.691	1	1.318	5.207	1	3.752	2.453	3.280	2	1.105
6.744	5	3.710	3.712	5.608	1	1.312	6.090	0	3.687	2.453	3.223	2	1.101
7.155	5	3.766	3.768	5.525	1	1.305	5.971	0	3.622	2.453	3.165	2	1.099
7.555	5	3.821	3.823	5.444	1	1.299	5.861	0	3.561	2.453	3.110	2	1.096
7.777	5	3.889	3.887	5.356	1	1.290	5.739	0	3.492	2.453	3.049	2	1.092
7.805	5	3.923	3.926	5.303	1	1.287	5.666	0	3.450	2.453	3.012	2	1.090
8.119	5	3.963	3.966	5.250	1	1.283	5.581	0	3.407	2.453	2.975	2	1.088
8.367	5	4.016	4.019	5.181	1	1.279	5.491	0	3.353	2.453	2.928	2	1.084
8.711	5	4.075	4.078	5.105	1	1.273	5.353	0	3.296	2.453	2.873	2	1.082
9.934	5	4.135	4.138	5.031	1	1.267	5.248	0	3.239	2.453	2.822	2	1.079

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.330442		CROSS SECTION (BARN)S										DENSITY 1.8600	GRAMS/CC	ENERGY DEPOSIT (MEV)	
MEV	REF	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	FISSION	NU BAR	PLAINT	PROD	TOTAL	LOCAL				
9.108	4	4.185	4.188	4.911	2.621	5.163	3.192	2.453	2.780	2.131	2.076				
9.380	4	4.437	4.240	4.910	2.581	5.076	3.145	2.453	2.738	2.128	2.073				
9.666	4	4.777	4.280	4.864	2.541	5.010	3.109	2.453	2.664	2.126	2.071				
9.811	5	4.331	4.335	4.803	2.493	4.937	3.061	2.453	2.604	2.123	2.068				
1.025	4	4.432	4.436	4.694	2.412	4.789	2.974	2.453	2.588	2.116	2.062				
1.059	4	4.455	4.507	4.509	2.381	4.599	2.877	2.453	2.500	2.109	2.055				
1.175	4	4.670	4.675	4.455	2.224	4.426	2.791	2.453	2.432	2.103	2.049				
1.256	4	4.791	4.795	4.342	2.151	4.267	2.701	2.453	2.343	2.096	2.042				
1.338	4	4.895	4.899	4.251	2.091	4.124	2.630	2.453	2.278	2.090	2.037				
1.405	4	4.906	5.010	4.156	2.011	3.988	2.556	2.453	2.213	2.083	2.031				
1.511	4	5.136	5.140	4.051	1.931	3.839	2.474	2.453	2.140	2.076	2.023				
1.601	4	5.247	5.252	3.985	1.861	3.703	2.409	2.453	2.081	2.070	2.018				
1.694	4	5.354	5.359	3.888	1.801	3.587	2.347	2.453	2.025	2.064	2.012				
1.789	4	5.467	5.471	3.806	1.741	3.473	2.284	2.453	2.069	2.057	2.006				
1.887	4	5.569	5.574	3.736	1.681	3.357	2.231	2.453	2.020	2.052	2.001				
1.980	4	5.671	5.676	3.669	1.621	3.255	2.180	2.453	2.074	2.046	2.995				
2.051	4	6.029	5.034	3.451	1.441	2.933	2.013	2.453	2.704	2.027	2.976				
2.741	4	5.516	6.522	3.193	1.121	2.541	1.818	2.453	2.547	2.002	2.939				
3.267	4	6.033	6.900	3.018	1.106	2.272	1.685	2.453	2.427	2.026	2.935				
3.811	4	7.131	7.339	2.938	1.087	1.996	1.551	2.453	3.051	2.016	2.915				
4.704	4	7.650	7.659	2.713	1.073	1.812	1.465	2.453	2.266	2.016	2.926				
4.991	4	7.875	7.884	2.642	1.066	1.692	1.407	2.453	2.171	2.017	2.927				
5.658	4	8.112	8.122	2.565	1.057	1.577	1.352	2.453	2.121	2.019	2.928				
6.042	4	8.257	8.267	2.520	1.051	1.506	1.317	2.453	2.081	2.019	2.929				
6.367	4	8.471	8.482	2.456	1.045	1.412	1.269	2.453	2.048	2.018	2.930				
7.154	4	8.799	8.811	2.361	1.034	1.275	1.208	2.453	2.008	2.018	2.931				
8.322	4	9.112	9.123	2.283	1.023	1.163	1.144	2.453	2.034	2.018	2.934				
9.177	4	9.416	9.431	2.209	1.011	1.068	1.092	2.453	2.074	2.018	2.935				
1.058	3	9.958	9.871	2.111	9.917	9.611	1.023	2.453	2.021	2.018	2.936				
1.307	3	1.029	1.030	2.022	9.796	9.806	0.953	2.453	2.071	2.018	2.937				
1.581	3	1.065	1.067	1.954	9.719	9.658	0.931	2.453	2.021	2.018	2.938				
1.882	3	1.087	1.089	1.914	9.676	9.620	0.913	2.453	2.071	2.018	2.939				
2.208	3	1.053	1.054	1.977	9.707	9.700	0.923	2.453	2.021	2.018	2.940				
2.561	3	1.087	1.089	1.915	1.104	8.261	0.727	2.453	2.021	2.018	2.941				
2.940	3	1.148	1.150	1.813	1.054	7.843	0.604	2.453	2.021	2.018	2.942				
3.345	3	1.166	1.168	1.784	1.058	7.457	0.507	2.453	2.021	2.018	2.943				
3.777	3	1.165	1.167	1.786	1.095	7.121	0.408	2.453	2.021	2.018	2.944				
4.234	3	1.170	1.173	1.778	1.149	6.557	0.339	2.453	2.021	2.018	2.945				
5.763	3	1.217	1.219	1.710	1.151	5.885	0.266	2.453	2.021	2.018	2.946				
7.527	3	1.295	1.298	1.619	1.091	5.266	0.173	2.453	2.021	2.018	2.947				
1.025	2	1.317	1.320	1.579	1.281	4.638	0.051	2.453	2.021	2.018	2.948				
1.511	2	1.398	1.401	1.488	1.090	4.088	0.000	2.453	2.021	2.018	2.949				
2.091	2	1.464	1.467	1.421	1.057	3.696	0.000	2.453	2.021	2.018	2.950				
2.646	2	1.519	1.522	1.370	1.033	3.409	0.032	2.453	2.021	2.018	2.951				
3.257	2	1.563	1.566	1.331	1.014	3.154	0.051	2.453	2.021	2.018	2.952				
3.953	2	1.612	1.615	1.291	9.936	9.933	0.000	2.453	2.021	2.018	2.953				
4.704	2	1.675	1.749	1.242	9.623	9.738	0.000	2.453	2.021	2.018	2.954				
5.761	2	1.743	1.856	1.194	9.225	9.550	0.000	2.453	2.021	2.018	2.955				
7.002	2	1.823	1.946	1.141	8.787	2.392	0.000	2.453	2.021	2.018	2.956				
8.322	2	1.897	2.030	1.097	8.432	2.271	0.000	2.453	2.021	2.018	2.957				
9.691	2	1.975	2.121	1.053	8.063	2.201	0.000	2.453	2.021	2.018	2.958				
1.107	1	2.101	2.266	0.902	7.456	2.243	2.197	2.453	2.021	2.018	2.959				
1.820	1	2.200	2.447	0.957	7.027	2.208	2.154	2.453	2.021	2.018	2.960				
2.075	1	2.275	2.560	0.914	6.734	2.214	2.120	2.453	2.021	2.018	2.961				
2.417	1	2.358	2.707	0.823	6.346	2.103	2.085	2.453	2.021	2.018	2.962				
2.710	1	2.421	2.827	0.859	6.226	2.011	2.056	2.453	2.021	2.018	2.963				
2.940	1	2.488	2.944	0.862	6.013	1.916	2.020	2.453	2.021	2.018	2.964				
3.345	1	2.585	3.086	0.825	5.703	1.815	1.978	2.453	2.021	2.018	2.965				
3.777	1	2.635	3.243	0.789	5.561	1.709	1.953	2.453	2.021	2.018	2.966				
4.234	1	2.754	3.423	0.754	5.271	1.577	1.917	2.453	2.021	2.018	2.967				
5.123	1	2.912	3.676	0.715	4.769	1.296	1.878	2.453	2.021	2.018	2.968				
6.325	1	3.076	3.873	0.674	4.329	1.008	1.845	2.453	2.021	2.018	2.969				

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ENDL 175 Group Neutron Constants

92-U -233

ATOMIC WEIGHT 2.3304 ± 2			DENSITY 1.6600 ± 1 GRAMS/CC									
ENERGY (MEV)	MEP (CM)	THICKNESS	CROSS SECTION (BARN)									
			TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
1.501	1.3182	0.3944	6.5380	4.0030	0.3700	1.0280	2.5500	6.2360	1.5940	4.9930	4.6800	
1.831	1.3206	0.4040	6.4490	3.7990	0.7050	2.1800	2.2540	5.5150	1.5760	4.9490	4.7230	
2.025	1.3247	0.4159	6.4100	3.5660	0.5498	2.1620	2.5830	6.6770	1.6010	5.0590	4.8290	
2.176	1.3355	0.4304	6.2000	3.3680	0.7114	2.1820	2.6010	9.5780	1.6280	5.1670	4.9300	
2.338	1.3505	0.4428	6.1830	3.2600	0.8790	2.1836	2.6210	1.0480	1.6570	5.2070	4.9670	
2.511	1.3542	0.4495	6.3200	3.3300	0.3364	2.1852	2.6420	1.1050	1.6850	5.1380	4.9000	
2.694	1.3694	0.4559	6.3580	3.5080	0.1130	2.1875	2.6610	1.1520	1.7160	5.0070	4.7730	
2.881	1.3844	0.4646	6.4370	3.7050	2.8960	2.1896	2.6800	1.2070	1.7490	4.8840	4.6340	
3.074	1.3995	0.4707	6.2570	3.8670	2.5690	2.1897	2.7120	1.2670	1.7670	4.7170	4.4910	
3.265	1.4160	0.4738	6.2740	4.0030	2.2770	2.1876	2.7380	1.3690	1.7710	4.5330	4.3120	
3.457	1.4314	0.4800	6.3940	4.0380	1.9860	2.1851	2.7640	1.4660	1.7760	4.3990	4.1790	
3.650	1.4464	0.4854	6.5200	4.0780	1.6660	2.1872	2.7920	1.6140	1.7850	4.2480	4.0290	
3.841	1.4619	0.4917	6.6200	4.1290	1.4440	2.1775	2.8720	1.7050	1.7740	4.1020	3.8940	
4.032	1.4773	0.4981	6.6870	4.1860	1.3400	2.1789	2.9540	1.7520	1.7450	3.9950	3.7570	
4.223	1.4927	0.5044	6.7600	4.1940	1.2310	2.1779	2.9860	1.8010	1.7070	3.8650	3.6460	
4.414	1.5079	0.5107	6.8110	4.2020	1.1240	2.1831	2.9180	1.8470	1.6650	3.7500	3.5300	
4.605	1.5231	0.5170	6.8990	4.2110	1.0370	2.1852	2.9520	1.8460	1.6280	3.6700	3.4470	
4.796	1.5383	0.5233	6.9530	4.2510	0.9930	2.1855	2.9920	1.8320	1.5920	3.6030	3.3780	
4.987	1.5535	0.5296	7.0040	4.2410	0.9100	2.1830	3.0250	1.8180	1.5640	3.5590	3.3310	
5.178	1.5687	0.5359	7.0540	4.2400	0.8270	2.1800	3.0720	1.8000	1.5430	3.5430	3.3090	
5.369	1.5839	0.5422	7.1030	4.2760	0.6970	2.1780	3.1250	1.7820	1.5470	3.6070	3.3640	
5.560	1.5991	0.5485	7.1520	4.2880	0.6490	2.1810	3.1870	1.7550	1.6510	3.9820	3.7170	
5.751	1.6143	0.5548	7.2010	4.3320	0.6770	2.1844	3.2440	1.6440	1.7820	4.5880	4.2950	
5.942	1.6295	0.5611	7.2500	4.3820	0.6969	2.0010	3.3150	1.4140	1.8520	5.2240	4.9090	
6.133	1.6447	0.5674	7.3000	4.4310	0.6330	2.0800	3.3890	1.1790	1.8510	5.7460	5.1170	
6.324	1.6599	0.5737	7.3500	4.4800	0.5560	2.1460	3.4630	1.0070	1.8530	6.0610	5.7350	
6.515	1.6751	0.5800	7.4000	4.5290	0.4690	2.1990	3.5090	0.9510	1.8520	6.2090	5.8920	
6.706	1.6903	0.5863	7.4500	4.5780	0.3720	2.2120	3.5640	0.8360	1.8500	6.3070	5.9560	
6.897	1.7055	0.5926	7.5000	4.6270	0.2650	2.2180	3.6150	0.7120	1.8450	6.4240	6.1110	
7.088	1.7207	0.5989	7.5500	4.6760	0.1580	2.1990	3.6670	0.6600	1.8200	6.4910	6.1770	
7.279	1.7359	0.6052	7.6000	4.7250	0.0490	2.1580	3.7160	0.7460	1.7890	6.4420	6.1290	
7.470	1.7511	0.6115	7.6500	4.7740	0.0390	2.1110	3.7650	0.8160	1.7560	6.3100	6.0010	
7.661	1.7663	0.6178	7.7000	4.8230	0.0290	2.0720	3.8220	0.8310	1.7240	6.1930	5.8860	
7.852	1.7815	0.6241	7.7500	4.8720	0.0190	2.0600	3.8750	0.8430	1.7140	6.1340	5.8250	
8.043	1.7967	0.6304	7.8000	4.9210	0.0090	2.0710	3.9450	0.8660	1.7260	6.1170	5.8860	
8.234	1.8119	0.6367	7.8500	4.9700	0.0010	2.0690	4.0230	0.8930	1.7490	6.1130	5.7960	
8.425	1.8271	0.6430	7.9000	5.0190	0.0000	2.0250	4.0990	0.9050	1.7670	6.1470	5.8290	
8.616	1.8423	0.6493	7.9500	5.0680	0.0000	2.1680	4.1850	0.9570	1.7860	6.2580	5.9360	
8.807	1.8575	0.6556	8.0000	5.1170	0.0000	2.2110	4.2600	0.7250	1.7810	6.3940	6.0690	
9.000	1.8727	0.6619	8.0500	5.1660	0.0000	2.2330	4.3110	0.7380	1.7620	6.4780	6.1520	
9.191	1.8879	0.6682	8.1000	5.2150	0.0000	2.2490	4.3490	0.6530	1.7520	6.5320	6.2060	
9.382	1.9031	0.6745	8.1500	5.2640	0.0000	2.2710	4.3820	0.6550	1.7510	6.5730	6.2450	
9.573	1.9183	0.6808	8.2000	5.3130	0.0000	2.2720	4.4140	0.6090	1.7500	6.6040	6.2760	
9.764	1.9335	0.6871	8.2500	5.3620	0.0000	2.2940	4.4500	0.7000	1.7490	6.6040	6.2750	
9.955	1.9487	0.6934	8.3000	5.4110	0.0000	2.2650	4.5210	0.7020	1.7450	6.5820	6.1950	
10.146	1.9639	0.6997	8.3500	5.4600	0.0000	2.1070	4.5890	0.7370	1.7320	6.3680	6.0460	
10.337	1.9791	0.7060	8.4000	5.5090	0.0000	2.0110	4.6560	0.7590	1.6840	6.1840	5.8680	
10.528	1.9943	0.7123	8.4500	5.5580	0.0000	1.8330	4.7260	0.8040	1.6330	6.0130	5.7000	
10.719	2.0095	0.7186	8.5000	5.6070	0.0000	1.6510	4.7970	0.8530	1.5970	5.9710	5.6570	
10.910	2.0247	0.7249	8.5500	5.6560	0.0000	1.4670	4.8690	0.8200	1.5860	5.9640	5.6470	
11.101	2.0399	0.7312	8.6000	5.7050	0.0000	1.1870	4.9770	0.8200	1.5850	5.9710	5.6480	
RESCALANCE AVERAGES			1.0540	3.1660	2.1319	2.5160	2.1130	6.6530	3.4080			
MAXIMUM AVERAGES			5.5610	2.1408	4.4720	4.9710	2.4530	0.0000				
1/E AVERAGES			6.0210	9.5560	7.5350	2.2940	2.4600	2.3500	3.8010			
FISSION AVERAGES			7.1770	0.2110	6.1320	2.8510	2.8990	1.0540	1.6690			
FUSION AVERAGES			5.9470	3.3280	2.7810	3.2500	4.2560	6.6620	1.7560

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ENDL 175 Group Neutron Constants

92-U -234

04/12/76

ENDL 175 Group Neutron Constants

92-U -234

ATOMIC WEIGHT 2 3404 ± 2				DENSITY 1.8680 ± 1 GRAMS/CC							
ENERGY	MEV	HFP (CM)	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	F135ION	NU-BAR REMAINDER	GAM-PROD.	ENERGY DEPOSIT (MEV)	
										TOTAL LOCAL	
1.307	9	6.942	2	6.843	2	3.041	2	1.200	1	2.821	2
5.227	9	1.317	1	1.317	1	1.580	2	1.200	1	1.460	2
2.091	8	1.884	1	1.885	1	1.104	2	1.200	1	9.840	1
3.267	8	2.155	2	2.156	1	9.652	1	1.200	1	8.452	1
4.704	8	2.508	2	2.510	1	8.294	1	1.200	1	7.094	1
8.322	8	2.936	1	2.938	1	7.005	1	1.200	1	5.805	1
1.307	7	3.329	1	3.331	1	6.249	1	1.200	1	5.049	1
1.882	7	3.604	1	3.607	1	5.647	1	1.200	1	4.447	1
2.561	7	4.011	1	4.014	1	5.187	1	1.200	1	3.987	1
3.345	7	4.312	1	4.315	1	4.825	1	1.200	1	3.625	1
4.234	7	4.578	1	4.582	1	4.544	1	1.200	1	3.344	1
5.123	7	4.967	1	4.971	1	4.189	1	1.200	1	2.989	1
7.527	7	5.542	1	5.547	1	3.754	1	1.200	1	2.554	1
1.176	6	6.016	1	6.022	1	3.458	1	1.200	1	2.258	1
1.511	6	6.431	1	6.438	1	3.235	1	1.200	1	2.035	1
2.091	6	6.863	1	6.870	1	3.052	1	1.200	1	1.832	1
2.741	6	7.254	1	7.263	1	2.868	1	1.200	1	1.668	1
3.533	6	7.667	1	7.677	1	2.714	1	1.200	1	1.514	1
4.704	6	8.092	1	8.103	1	2.594	1	1.200	1	1.394	1
5.658	6	8.298	1	8.310	1	2.507	1	1.200	1	1.307	1
6.717	6	8.598	1	8.610	1	2.470	1	1.200	1	1.220	1
8.322	6	8.922	1	8.895	1	2.345	1	1.200	1	1.145	1
9.620	6	9.086	1	9.099	1	2.290	1	1.200	1	1.090	1
1.101	5	9.311	1	9.324	1	2.234	1	1.200	1	1.034	1
1.177	5	9.578	1	9.573	1	2.168	1	1.200	1	9.888	1
1.461	5	9.655	1	9.668	1	2.155	1	1.200	1	9.555	1
1.581	5	9.795	1	9.811	1	2.124	1	1.200	1	9.239	1
1.750	5	9.921	1	9.937	1	2.097	1	1.200	1	8.970	1
1.862	5	1.004	1	1.006	1	2.072	1	1.200	1	8.718	1
2.071	5	1.018	1	1.020	1	2.044	1	1.200	1	8.438	1
2.217	5	1.028	1	1.030	1	2.024	1	1.200	1	8.239	1
2.417	5	1.064	1	1.068	1	2.009	1	1.200	1	8.086	1
2.561	5	1.044	1	1.046	1	1.993	1	1.200	1	7.928	1
2.710	5	1.053	1	1.054	1	1.977	1	1.200	1	7.766	1
2.862	5	1.059	1	1.061	1	1.964	1	1.200	1	7.643	1
2.940	5	1.064	1	1.066	1	1.955	1	1.200	1	7.547	1
3.099	5	1.073	1	1.075	1	1.940	1	1.200	1	7.397	1
3.345	5	1.083	1	1.085	1	1.921	1	1.200	1	7.210	1
3.601	5	1.094	1	1.096	1	1.902	1	1.200	1	7.017	1
3.866	5	1.102	1	1.104	1	1.888	1	1.200	1	6.879	1
4.048	5	1.108	1	1.110	1	1.878	1	1.200	1	6.783	1
4.234	5	1.112	1	1.114	1	1.871	1	1.200	1	6.710	1
4.379	5	1.118	1	1.120	1	1.861	1	1.200	1	6.609	1
4.619	5	1.124	1	1.126	1	1.851	1	1.200	1	6.507	1
4.717	5	1.129	1	1.131	1	1.843	1	1.200	1	6.429	1
4.918	5	1.136	1	1.137	1	1.834	1	1.200	1	6.337	1
5.123	5	1.139	1	1.141	1	1.826	1	1.200	1	6.260	1
5.332	5	1.145	1	1.148	1	1.816	1	1.200	1	6.163	1
5.644	5	1.150	1	1.153	1	1.808	1	1.200	1	6.068	1
5.763	5	1.156	1	1.158	1	1.800	1	1.200	1	6.002	1
6.097	5	1.164	1	1.165	1	1.790	1	1.200	1	5.899	1
6.375	5	1.168	1	1.170	1	1.782	1	1.200	1	5.816	1
6.557	5	1.171	1	1.173	1	1.774	1	1.200	1	5.767	1
6.674	5	1.175	1	1.177	1	1.771	1	1.200	1	5.705	1
7.044	5	1.179	1	1.182	1	1.764	1	1.200	1	5.643	1
7.150	5	1.184	1	1.186	1	1.758	1	1.200	1	5.578	1
7.427	5	1.189	1	1.191	1	1.750	1	1.200	1	5.498	1
7.790	5	1.192	1	1.195	1	1.743	1	1.200	1	5.440	1
7.914	5	1.196	1	1.198	1	1.740	1	1.200	1	5.398	1
8.16	5	1.200	1	1.203	1	1.733	1	1.200	1	5.332	1
8.431	5	1.205	1	1.207	1	1.726	1	1.200	1	5.264	1
8.834	5	1.210	1	1.212	1	1.720	1	1.200	1	5.199	1

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ENDL 175 Group Neutron Constants

92-U -234

ATOMIC WEIGHT 234.040 2		DENSITY 1.8680 1 GRAMS/CC		ENERGY DEPOSIT (MEV)									
ENERGY	MFP (CM)	CROSS SECTION (BARN/CM)										TOTAL	LOCAL
MEV	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL			
9.168-5	1.213-0	1.216-0	1.715-1	1.200-1	5.146-0				3.602-1	1.594-0	4.744-5		
9.386-5	1.217-0	1.220-0	1.709-1	1.200-1	5.091-0				3.564-1	1.582-0	4.794-5		
9.609-5	1.220-0	1.223-0	1.705-1	1.200-1	5.050-0				3.535-1	1.573-0	4.832-5		
9.811-5	1.224-0	1.226-0	1.700-1	1.200-1	5.004-0				3.503-1	1.563-0	4.887-5		
1.025-4	1.226-0	1.229-0	1.695-1	1.200-1	4.965-0				3.475-1	1.554-0	4.936-5		
1.195-4	1.230-0	1.232-0	1.692-1	1.200-1	4.921-0				3.445-1	1.544-0	5.029-5		
1.176-4	1.232-0	1.235-0	1.698-1	1.200-1	4.884-0				3.419-1	1.536-0	5.132-5		
1.156-4	1.235-0	1.237-0	1.685-1	1.200-1	4.849-0				3.394-1	1.528-0	5.242-5		
1.138-4	1.237-0	1.240-0	1.682-1	1.200-1	4.816-0				3.372-1	1.521-0	5.354-5		
1.106-4	1.240-0	1.242-0	1.678-1	1.200-1	4.779-0				3.346-1	1.512-0	5.469-5		
1.111-4	1.243-0	1.246-0	1.674-1	1.200-1	4.737-0				3.318-1	1.503-0	5.596-5		
1.071-4	1.246-0	1.249-0	1.670-1	1.200-1	4.699-0				3.290-1	1.494-0	5.722-5		
1.064-4	1.248-0	1.251-0	1.667-1	1.200-1	4.670-0				3.269-1	1.488-0	5.852-5		
1.062-4	1.250-0	1.253-0	1.664-1	1.200-1	4.641-0				3.249-1	1.481-0	5.987-5		
1.067-4	1.252-0	1.255-0	1.661-1	1.200-1	4.612-0				3.228-1	1.474-0	6.126-5		
1.088-4	1.255-0	1.257-0	1.650-1	1.200-1	4.582-0				3.207-1	1.467-0	6.269-5		
1.091-4	1.258-0	1.261-0	1.648-1	1.200-1	4.555-0				3.189-1	1.460-0	6.416-5		
1.094-4	1.261-0	1.264-0	1.646-1	1.200-1	4.528-0				3.171-1	1.453-0	6.567-5		
1.097-4	1.264-0	1.267-0	1.644-1	1.200-1	4.501-0				3.153-1	1.446-0	6.722-5		
1.101-4	1.267-0	1.270-0	1.642-1	1.200-1	4.475-0				3.135-1	1.439-0	6.881-5		
1.101-4	1.268-0	1.269-0	1.641-1	1.200-1	4.449-0				3.117-1	1.432-0	7.043-5		
1.104-4	1.271-0	1.273-0	1.639-1	1.200-1	4.423-0				3.099-1	1.425-0	7.208-5		
1.104-4	1.274-0	1.277-0	1.637-1	1.200-1	4.397-0				3.081-1	1.418-0	7.376-5		
1.104-4	1.277-0	1.280-0	1.635-1	1.200-1	4.371-0				3.063-1	1.411-0	7.546-5		
1.104-4	1.280-0	1.283-0	1.633-1	1.200-1	4.345-0				3.045-1	1.404-0	7.718-5		
1.104-4	1.283-0	1.286-0	1.631-1	1.200-1	4.319-0				3.027-1	1.397-0	7.892-5		
1.104-4	1.286-0	1.289-0	1.629-1	1.200-1	4.293-0				3.009-1	1.390-0	8.068-5		
1.104-4	1.289-0	1.292-0	1.627-1	1.200-1	4.267-0				2.991-1	1.383-0	8.246-5		
1.104-4	1.292-0	1.295-0	1.625-1	1.200-1	4.241-0				2.973-1	1.376-0	8.426-5		
1.104-4	1.295-0	1.298-0	1.623-1	1.200-1	4.215-0				2.955-1	1.369-0	8.608-5		
1.104-4	1.298-0	1.301-0	1.621-1	1.200-1	4.189-0				2.937-1	1.362-0	8.792-5		
1.104-4	1.301-0	1.304-0	1.619-1	1.200-1	4.163-0				2.919-1	1.355-0	8.978-5		
1.104-4	1.304-0	1.307-0	1.617-1	1.200-1	4.137-0				2.901-1	1.348-0	9.166-5		
1.104-4	1.307-0	1.310-0	1.615-1	1.200-1	4.111-0				2.883-1	1.341-0	9.356-5		
1.104-4	1.310-0	1.313-0	1.613-1	1.200-1	4.085-0				2.865-1	1.334-0	9.548-5		
1.104-4	1.313-0	1.316-0	1.611-1	1.200-1	4.059-0				2.847-1	1.327-0	9.742-5		
1.104-4	1.316-0	1.319-0	1.609-1	1.200-1	4.033-0				2.829-1	1.320-0	9.938-5		
1.104-4	1.319-0	1.322-0	1.607-1	1.200-1	4.007-0				2.811-1	1.313-0	10.136-5		
1.104-4	1.322-0	1.325-0	1.605-1	1.200-1	3.981-0				2.793-1	1.306-0	10.336-5		
1.104-4	1.325-0	1.328-0	1.603-1	1.200-1	3.955-0				2.775-1	1.299-0	10.538-5		
1.104-4	1.328-0	1.331-0	1.601-1	1.200-1	3.929-0				2.757-1	1.292-0	10.742-5		
1.104-4	1.331-0	1.334-0	1.599-1	1.200-1	3.903-0				2.739-1	1.285-0	10.948-5		
1.104-4	1.334-0	1.337-0	1.597-1	1.200-1	3.877-0				2.721-1	1.278-0	11.156-5		
1.104-4	1.337-0	1.340-0	1.595-1	1.200-1	3.851-0				2.703-1	1.271-0	11.366-5		
1.104-4	1.340-0	1.343-0	1.593-1	1.200-1	3.825-0				2.685-1	1.264-0	11.578-5		
1.104-4	1.343-0	1.346-0	1.591-1	1.200-1	3.799-0				2.667-1	1.257-0	11.792-5		
1.104-4	1.346-0	1.349-0	1.589-1	1.200-1	3.773-0				2.649-1	1.250-0	12.008-5		
1.104-4	1.349-0	1.352-0	1.587-1	1.200-1	3.747-0				2.631-1	1.243-0	12.226-5		
1.104-4	1.352-0	1.355-0	1.585-1	1.200-1	3.721-0				2.613-1	1.236-0	12.446-5		
1.104-4	1.355-0	1.358-0	1.583-1	1.200-1	3.695-0				2.595-1	1.229-0	12.668-5		
1.104-4	1.358-0	1.361-0	1.581-1	1.200-1	3.669-0				2.577-1	1.222-0	12.892-5		
1.104-4	1.361-0	1.364-0	1.579-1	1.200-1	3.643-0				2.559-1	1.215-0	13.118-5		
1.104-4	1.364-0	1.367-0	1.577-1	1.200-1	3.617-0				2.541-1	1.208-0	13.346-5		
1.104-4	1.367-0	1.370-0	1.575-1	1.200-1	3.591-0				2.523-1	1.201-0	13.576-5		
1.104-4	1.370-0	1.373-0	1.573-1	1.200-1	3.565-0				2.505-1	1.194-0	13.808-5		
1.104-4	1.373-0	1.376-0	1.571-1	1.200-1	3.539-0				2.487-1	1.187-0	14.042-5		
1.104-4	1.376-0	1.379-0	1.569-1	1.200-1	3.513-0				2.469-1	1.180-0	14.278-5		
1.104-4	1.379-0	1.382-0	1.567-1	1.200-1	3.487-0				2.451-1	1.173-0	14.516-5		
1.104-4	1.382-0	1.385-0	1.565-1	1.200-1	3.461-0				2.433-1	1.166-0	14.756-5		
1.104-4	1.385-0	1.388-0	1.563-1	1.200-1	3.435-0				2.415-1	1.159-0	14.998-5		
1.104-4	1.388-0	1.391-0	1.561-1	1.200-1	3.409-0				2.397-1	1.152-0	15.242-5		
1.104-4	1.391-0	1.394-0	1.559-1	1.200-1	3.383-0				2.379-1	1.145-0	15.488-5		
1.104-4	1.394-0	1.397-0	1.557-1	1.200-1	3.357-0				2.361-1	1.138-0	15.736-5		
1.104-4	1.397-0	1.400-0	1.555-1	1.200-1	3.331-0				2.343-1	1.131-0	15.986-5		
1.104-4	1.400-0	1.403-0	1.553-1	1.200-1	3.305-0				2.325-1	1.124-0	16.238-5		
1.104-4	1.403-0	1.406-0	1.551-1	1.200-1	3.279-0				2.307-1	1.117-0	16.492-5		
1.104-4	1.406-0	1.409-0	1.549-1	1.200-1	3.253-0				2.289-1	1.110-0	16.748-5		
1.104-4	1.409-0	1.412-0	1.547-1	1.200-1	3.227-0				2.271-1	1.103-0	17.006-5		
1.104-4	1.412-0	1.415-0	1.545-1	1.200-1	3.201-0				2.253-1	1.096-0	17.266-5		
1.104-4	1.415-0	1.418-0	1.543-1	1.200-1	3.175-0				2.235-1	1.089-0	17.528-5		
1.104-4	1.418-0	1.421-0	1.541-1	1.200-1	3.149-0				2.217-1	1.082-0	17.792-5		
1.104-4	1.421-0	1.424-0	1.539-1	1.200-1	3.123-0				2.199-1	1.075-0	18.058-5		
1.104-4	1.424-0	1.427-0	1.537-1	1.200-1	3.097-0				2.181-1	1.068-0	18.326-5		
1.104-4	1.427-0	1.430-0	1.535-1	1.200-1	3.071-0				2.163-1	1.061-0	18.596-5		
1.104-4	1.430-0	1.433-0	1.533-1	1.200-1	3.045-0				2.145-1	1.054-0	18.868-5		
1.104-4	1.433-0	1.436-0	1.531-1	1.200-1	3.019-0				2.127-1	1.047-0	19.142-5		
1.104-4	1.436-0	1.439-0	1.529-1	1.200-1	2.993-0				2.109-1	1.040-0	19.418-5		
1.104-4	1.439-0	1.442-0	1.527-1	1.200-1	2.967-0				2.091-1	1.033-0	19.696-5		
1.104-4	1.442-0	1.445-0	1.525-1	1.200-1	2.941-0				2.073-1	1.026-0	19.976-5		
1.104-4	1.445-0	1.448-0	1.523-1	1.200-1	2.915-0				2.055-1	1.019-0	20.258-5		
1.104-4	1.448-0	1.451-0	1.521-1	1.200-1	2.889-0				2.037-1	1.012-0	20.542-5		
1.104-4	1.451-0	1.454-0	1.519-1	1.200-1	2.863-0				2.019-1	1.005-0	20.828-5		
1.104-4	1.454-0	1.457-0	1.517-1	1.200-1	2.837-0				2.001-1	9.983-0	21.116-5		
1.104-4	1.457-0	1.460-0	1.515-1	1.200-1	2.811-0				1.983-1	9.976-0	21.406-5		
1.104-4	1.460-0	1.463-0	1.513-1	1.200-1	2.785-0				1.965-1	9.969-0	21.698-5		
1.104-4	1.463-0	1.466-0	1.511-1	1.200-1	2.759-0				1.947-1	9.962-0	21.992-5		
1.104-4	1.466-0	1.469-0	1.509-1	1.200-1	2.733-0				1.929-1	9.955-0	22.288-5		
1.104-4	1.469-0	1.472-0	1.507-1	1.200-1	2.707-0				1.911-1	9.948-0	22.586-5		
1.104-4	1.472-0	1.475-0	1.505-1	1.200-1	2.681-0								

04/17/76

ENDL 175 Group Neutron Constants

92-U -234

ATOMIC WEIGHT 234.04092		DENSITY 1.6580 GRAMS/CC									
ENERGY	MEV	TOTAL	TRANSP	ELASTIC	ABSORPT	FISSI	NU BAR	REMAINDER	GAM-PROD	TOTAL	LOCAL
7.527	0.1	2.862	0.3	6.604	0.7	3.319	0.4	9.450	0.2	2.69	0.1
8.034	0.1	3.067	0.3	6.861	0.7	3.419	0.4	9.650	0.2	2.79	0.1
1.025	0.1	3.036	0.3	6.980	0.7	3.419	0.4	9.650	0.2	2.79	0.1
1.176	0.1	3.145	0.3	7.149	0.7	3.537	0.4	9.869	0.2	2.91	0.1
1.336	0.1	3.175	0.3	7.189	0.7	3.553	0.4	9.914	0.2	2.93	0.1
1.511	0.1	3.110	0.3	7.372	0.7	3.691	0.4	10.121	0.2	3.05	0.1
1.694	0.1	3.024	0.3	7.365	0.7	3.681	0.4	10.105	0.2	3.04	0.1
1.887	0.1	2.959	0.3	7.467	0.7	3.703	0.4	10.207	0.2	3.06	0.1
2.091	0.1	2.856	0.3	7.492	0.7	3.786	0.4	10.218	0.2	3.06	0.1
2.305	0.1	2.746	0.3	7.474	0.7	3.874	0.4	10.258	0.2	3.07	0.1
2.530	0.1	2.671	0.3	7.490	0.7	3.964	0.4	10.274	0.2	3.08	0.1
2.741	0.1	2.612	0.3	7.458	0.7	4.056	0.4	10.274	0.2	3.08	0.1
3.011	0.1	2.582	0.3	7.495	0.7	4.153	0.4	10.274	0.2	3.08	0.1
3.267	0.1	2.580	0.3	7.580	0.7	4.253	0.4	10.274	0.2	3.08	0.1
3.533	0.1	2.577	0.3	7.669	0.7	4.357	0.4	10.274	0.2	3.08	0.1
3.811	0.1	2.576	0.3	7.757	0.7	4.464	0.4	10.274	0.2	3.08	0.1
4.069	0.1	2.632	0.3	7.850	0.7	4.574	0.4	10.274	0.2	3.08	0.1
4.396	0.1	2.694	0.3	7.958	0.7	4.687	0.4	10.274	0.2	3.08	0.1
4.704	0.1	2.677	0.3	8.071	0.7	4.803	0.4	10.274	0.2	3.08	0.1
4.991	0.1	2.720	0.3	8.185	0.7	4.921	0.4	10.274	0.2	3.08	0.1
5.353	0.1	2.774	0.3	8.309	0.7	5.051	0.4	10.274	0.2	3.08	0.1
5.658	0.1	2.855	0.3	8.443	0.7	5.193	0.4	10.274	0.2	3.08	0.1
6.042	0.1	2.930	0.3	8.586	0.7	5.347	0.4	10.274	0.2	3.08	0.1
6.367	0.1	2.987	0.3	8.738	0.7	5.512	0.4	10.274	0.2	3.08	0.1
6.737	0.1	2.990	0.3	8.898	0.7	5.687	0.4	10.274	0.2	3.08	0.1
7.156	0.1	3.100	0.3	9.074	0.7	5.873	0.4	10.274	0.2	3.08	0.1
7.548	0.1	3.187	0.3	9.264	0.7	6.070	0.4	10.274	0.2	3.08	0.1
7.910	0.1	3.261	0.3	9.467	0.7	6.278	0.4	10.274	0.2	3.08	0.1
8.322	0.1	3.340	0.3	9.683	0.7	6.496	0.4	10.274	0.2	3.08	0.1
8.787	0.1	3.433	0.3	9.914	0.7	6.724	0.4	10.274	0.2	3.08	0.1
9.177	0.1	3.525	0.3	10.159	0.7	6.962	0.4	10.274	0.2	3.08	0.1
9.605	0.1	3.597	0.3	10.417	0.7	7.210	0.4	10.274	0.2	3.08	0.1
1.012	0.1	3.639	0.3	10.687	0.7	7.467	0.4	10.274	0.2	3.08	0.1
1.050	0.1	3.654	0.3	10.888	0.7	7.694	0.4	10.274	0.2	3.08	0.1
1.101	0.1	3.662	0.3	11.105	0.7	7.930	0.4	10.274	0.2	3.08	0.1
1.155	0.1	3.673	0.3	11.339	0.7	8.174	0.4	10.274	0.2	3.08	0.1
1.211	0.1	3.684	0.3	11.588	0.7	8.427	0.4	10.274	0.2	3.08	0.1
1.250	0.1	3.695	0.3	11.850	0.7	8.687	0.4	10.274	0.2	3.08	0.1
1.307	0.1	3.699	0.3	12.124	0.7	8.953	0.4	10.274	0.2	3.08	0.1
1.354	0.1	3.697	0.3	12.409	0.7	9.224	0.4	10.274	0.2	3.08	0.1
1.386	0.1	3.580	0.3	12.694	0.7	9.500	0.4	10.274	0.2	3.08	0.1
1.413	0.1	3.570	0.3	12.980	0.7	9.781	0.4	10.274	0.2	3.08	0.1
1.441	0.1	3.538	0.3	13.267	0.7	10.067	0.4	10.274	0.2	3.08	0.1
1.468	0.1	3.479	0.3	13.554	0.7	10.357	0.4	10.274	0.2	3.08	0.1
1.514	0.1	3.396	0.3	13.841	0.7	10.650	0.4	10.274	0.2	3.08	0.1
1.575	0.1	3.274	0.3	14.128	0.7	10.946	0.4	10.274	0.2	3.08	0.1
1.633	0.1	3.176	0.3	14.415	0.7	11.244	0.4	10.274	0.2	3.08	0.1
1.692	0.1	3.079	0.3	14.702	0.7	11.543	0.4	10.274	0.2	3.08	0.1
1.762	0.1	3.066	0.3	15.000	0.7	11.843	0.4	10.274	0.2	3.08	0.1
1.814	0.1	3.063	0.3	15.300	0.7	12.143	0.4	10.274	0.2	3.08	0.1
1.875	0.1	3.062	0.3	15.600	0.7	12.443	0.4	10.274	0.2	3.08	0.1
2.000	0.1	3.062	0.3	15.900	0.7	12.743	0.4	10.274	0.2	3.08	0.1
RESONANCE INTEGRALS		2.807	2	1.762	2	9.397	1	5.961	0	4.540	0
MAXWELLIAN AVERAGES		1.056	2	1.200	1	9.362	1			6.553	2
1/E AVERAGES		1.603	1	1.006	1	5.359	0	3.245	0	2.594	1
FISSION AVERAGES		7.598	0	5.061	0	1.389	1	1.266	0	1.170	0
FUSION AVERAGES		5.823	0	2.568	0	4.968	3	2.123	0	4.409	1

ON 10/76

ENDL 175 Group Neutron Constants

92-U -235

Barns

04/12/76

ENDL 175 Group Neutron Constants

92-U -235

ATOMIC WEIGHT 2.3504+2				DENSITY 1.8760+1				GRAMS/CC				
ENERGY	MFP (CM)		CROSS SECTION (BARNS)								ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
1.307-9	9.516-3	9.516-3	2.186+3	1.500+3	3.263+2	1.845+3	2.398+0	1.923+4	1.488+2	1.415+2		
5.227-9	1.953-2	1.953-2	1.065+3	1.500+3	1.551+2	8.952+2	2.398+0	7.374+3	1.481+2	1.409+2		
2.091-8	2.993-2	2.993-2	6.951+2	1.499+3	9.764+1	5.824+2	2.396+0	4.783+3	1.477+2	1.405+2		
3.267-8	3.763-2	3.764-2	5.528+2	1.499+3	7.825+1	4.596+2	2.398+0	3.779+3	1.465+2	1.394+2		
4.704-8	5.025-2	5.026-2	4.140+2	1.498+3	5.776+1	3.413+2	2.398+0	2.805+3	1.453+2	1.382+2		
6.322-8	6.799-2	6.800+2	3.080+2	1.496+3	4.466+1	2.461+2	2.398+0	2.039+3	1.440+2	1.350+2		
1.307-7	8.304-2	8.306-2	2.505+2	1.495+3	3.938+1	1.962+2	2.398+0	1.641+3	1.420+2	1.313+2		
1.682-7	6.726-2	6.727-2	2.384+2	1.492+3	4.225+1	1.813+2	2.398+0	1.542+3	1.343+2	1.275+2		
2.561-7	6.846-2	6.848-2	2.406+2	1.487+3	4.296+1	1.828+2	2.398+0	1.557+3	1.342+2	1.274+2		
3.345-7	1.170-1	1.170-1	1.779+2	1.481+3	2.364+1	1.394+2	2.398+0	1.146+3	1.382+2	1.314+2		
4.234-7	1.714-1	1.715-1	1.213+2	1.475+3	1.212+1	9.448+1	2.398+0	7.590+2	1.370+2	1.305+2		
5.123-7	2.327-1	2.328-1	8.942+1	1.463+3	7.208+0	6.759+1	2.398+0	5.363+2	1.329+2	1.267+2		
7.527-7	2.067-1	2.065-1	1.004+2	1.439+3	1.247+1	7.391+1	2.398+0	6.073+2	1.293+2	1.230+2		
1.176-6	4.020-1	4.023-1	5.176+1	1.413+3	9.477+0	2.815+1	2.398+0	2.528+2	9.648+1	9.120+1		
1.511-6	4.622-1	4.626-1	4.227+1	1.380+3	1.164+3	1.683+2	2.398+0	1.783+2	7.154+1	6.675+1		
2.091-6	7.715-1	7.726-1	2.697+1	1.337+3	3.523+0	1.008+3	2.398+0	9.106+1	6.630+1	6.264+1		
2.741-6	4.348-1	4.352-1	4.785+1	1.286+3	7.993+0	2.710+1	2.398+0	2.377+2	1.003+2	9.495+1		
3.533-6	6.022-1	6.028-1	3.455+1	1.216+3	9.317+0	1.307+1	2.398+0	1.397+2	6.802+1	6.342+1		
4.704-6	4.299-1	4.302-1	4.840+1	1.141+3	2.580+1	1.119+1	2.398+0	2.005+2	4.397+1	3.875+1		
5.558-6	1.808-1	1.809-1	1.151+2	1.184+3	6.613+1	3.730+1	2.398+0	5.783+2	6.054+1	5.434+1		
6.737-6	5.048-1	5.052-1	4.122+1	1.049+3	1.622+1	1.451+1	2.398+0	1.818+2	6.423+1	5.901+1		
9.620-6	6.870-1	6.871-1	2.346+2	1.275+3	5.714+1	1.647+2	2.398+0	1.486+3	1.246+2	1.177+2		
6.322-6	5.489-1	5.494-1	3.790+1	1.065+3	6.526+1	2.073+1	2.398+0	1.841+2	9.692+1	9.169+1		
1.101-5	1.155-1	1.155-1	1.801+2	1.398+3	1.044+2	6.218+1	2.398+0	9.374+2	6.446+1	5.787+1		
1.307-5	2.951-1	2.952-1	7.051+1	1.145+3	1.090+1	4.816+1	2.798+0	4.083+2	1.206+2	1.145+2		
1.466-5	4.503-1	4.506-1	4.620+1	1.052+3	1.527+1	2.040+1	2.398+0	2.244+2	7.352+1	7.405+1		
1.561-5	3.112-1	3.114-1	5.924+1	1.110+3	2.225+1	2.589+1	2.398+0	2.940+2	7.903+1	7.329+1		
1.758-5	3.921-1	3.923-1	5.307+1	9.654+0	1.114+1	3.227+1	2.398+0	2.310+2	1.079+2	1.019+2		
1.882-5	1.016-1	1.016-1	2.047+2	1.704+3	6.872+1	1.190+2	2.398+0	1.199+3	1.040+2	9.743+1		
2.075-5	2.380-1	2.381-1	8.743+1	1.317+3	4.055+1	3.371+1	2.398+0	4.353+2	7.057+1	6.484+1		
2.777-5	1.526-1	1.526-1	1.363+2	1.255+3	5.822+1	6.458+1	2.398+0	7.502+2	8.581+1	7.942+1		
2.417-5	2.685-1	2.687-1	7.749+1	1.232+3	1.069+1	5.447+1	2.398+0	4.544+2	1.240+2	1.179+2		
2.561-5	3.592-1	3.594-1	5.857+1	1.146+3	6.604+1	4.050+1	2.398+0	3.318+2	1.219+2	1.160+2		
2.710-5	3.955-1	3.957-1	5.852+1	1.118+3	1.259+1	3.476+1	2.398+0	3.161+2	1.054+2	9.957+1		
2.862-5	1.045+0	1.046+0	1.992+2	1.074+3	3.047+0	6.133+0	2.398+0	5.253+2	1.549+1	5.162+1		
2.940-5	4.252-1	4.255-1	4.893+1	1.038+3	2.055+1	1.800+1	2.398+0	2.275+2	6.719+1	6.168+1		
3.095-5	2.760-1	2.762-1	7.537+1	1.122+3	2.798+1	3.616+1	2.398+0	3.966+2	8.848+1	8.045+1		
3.345-5	8.963-2	8.965-2	2.321+2	1.914+3	7.628+1	1.367+2	2.398+0	1.365+3	1.053+2	9.874+1		
3.601-5	7.934-1	7.942-1	3.000+1	1.274+3	2.270+1	1.499+1	2.398+0	1.220+2	8.801+1	8.376+1		
3.666-5	2.144-1	2.145-1	9.704+1	1.351+3	2.919+1	5.434+1	2.398+0	5.374+2	1.001+2	9.365+1		
4.084-5	2.530-1	2.531-1	8.224+1	1.237+3	2.974+1	4.013+1	2.398+0	4.341+2	8.784+1	8.181+1		
4.239-5	4.422-1	4.425-1	4.705+1	1.182+3	1.918+1	1.605+1	2.398+0	2.067+2	6.241+1	5.718+1		
4.324-5	3.636-1	3.639-1	5.121+1	1.174+3	1.278+1	3.269+1	2.398+0	3.016+2	1.015+2	9.579+1		
4.619-5	2.612-1	2.613-1	7.965+1	1.113+3	1.856+1	4.996+1	2.398+0	4.565+2	1.114+2	1.052+2		
4.717-5	2.900-1	2.901-1	7.175+1	1.138+3	2.025+1	4.012+1	2.398+0	3.505+2	9.979+1	9.375+1		
4.819-5	2.080-1	2.081-1	9.124+1	1.105+3	3.424+1	4.596+1	2.398+0	4.979+2	9.088+1	8.445+1		
5.123-5	2.021-1	2.022-1	1.029+2	1.368+3	1.818+1	7.107+1	2.398+0	6.121+2	1.221+2	1.158+2		
5.332-5	1.720-1	1.721-1	1.209+2	1.224+3	3.367+1	7.503+1	2.398+0	7.120+2	1.105+2	1.040+2		
5.654-5	2.156-1	2.156-1	9.653+1	1.997+3	2.487+1	5.170+1	2.398+0	4.981+2	9.549+1	8.978+1		
5.763-5	2.961-1	2.962-1	7.077+1	1.449+3	1.506+1	4.073+1	2.398+0	3.718+2	1.029+2	9.717+1		
6.097-5	6.296-1	6.303-1	3.305+1	1.297+3	3.422+1	1.665+1	2.398+0	1.196+2	8.893+1	8.447+1		
6.326-5	4.779-1	4.783-1	4.353+1	1.260+3	1.595+1	1.478+1	2.398+0	1.826+2	6.185+1	5.692+1		
6.597-5	2.080-1	2.081-1	3.435+1	1.232+3	1.086+1	1.107+1	2.398+0	1.323+2	5.655+1	5.404+1		
6.974-5	6.969-1	6.976-1	2.985+1	1.105+3	4.694+1	1.411+1	2.398+0	1.265+2	8.384+1	7.927+1		
7.034-5	1.978-1	1.979-1	1.052+2	1.402+3	1.875+1	7.242+1	2.398+0	6.247+2	1.218+2	1.154+2		
7.155-5	3.257-1	3.269-1	6.368+1	1.270+3	1.361+1	3.737+1	2.398+0	3.403+2	1.042+2	9.839+1		
7.527-5	5.108-1	5.113-1	4.073+1	1.289+3	6.684+1	2.115+1	2.398+0	1.980+2	9.205+1	8.708+1		
7.780-5	5.095-1	5.100-1	4.083+1	1.341+3	8.046+1	0.937+1	2.398+0	1.809+2	8.440+1	7.955+1		
7.908-5	5.507-1	5.512-1	3.719+1	1.212+3	7.577+1	0.182+1	2.398+0	1.695+2	8.571+1	8.087+1		
8.167-5	4.632-1	4.636-1	4.492+1	1.313+3	1.057+1	2.21+1	2.398+0	2.061+2	9.425+1	7.917+1		
8.31-5	4.538-1	4.542-1	4.585+1	1.313+3	1.076+1	2.155+1	2.398+0	2.124+2	8.540+1	8.028+1		
8.934-5	4.519-1	4.523-1	4.604+1	1.313+3	1.073+1	2.218+1	2.398+0	2.140+2	8.592+1	8.078+1		

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92-U -235

04/12/76

ENDL 175 Group Neutron Constants

92-U -235

ATOMIC WEIGHT 2.3504 ± 2		DENSITY 1.8760 ± 1 GRAMS/CC		CROSS SECTION (BARNS)										ENERGY DEPOSIT(MEV)	
ENERGY		MEV (CM)		TOTAL ELASTIC ABSORPTION FISSION										TOTAL	
MEV		TOTAL TRANSPORT		NU-BAR REMAINDER GAM-PROD.										TOTAL	
9.108-5	4.504-1	4.507-1	4.619-1	1.311-1	1.070-1	2.237-1	2.398-0	0	2.153-2	8.634-1	8.119-1				
9.386-5	4.488-1	4.492-1	4.639-1	1.313-1	1.077-1	2.256-1	2.398-0	0	2.165-2	8.676-1	8.160-1				
9.669-5	4.477-1	4.482-1	4.647-1	1.312-1	1.081-1	2.271-1	2.398-0	0	2.175-2	8.707-1	8.191-1				
9.911-5	4.462-1	4.467-1	4.659-1	1.311-1	1.084-1	1.932-1	2.398-0	0	1.921-2	8.021-1	7.523-1				
1.025-4	4.477-1	4.481-1	4.359-1	1.312-1	1.055-1	1.989-1	2.398-0	0	1.961-2	8.156-1	7.655-1				
1.099-4	4.504-1	5.209-1	3.996-1	1.311-1	1.047-1	1.640-1	2.398-0	0	1.698-2	7.358-1	6.876-1				
1.176-4	4.008-1	4.011-1	5.191-1	1.310-1	1.030-1	2.642-1	2.398-0	0	2.569-2	9.721-1	9.180-1				
1.256-4	3.975-1	3.977-1	5.235-1	1.310-1	1.030-1	2.695-1	2.398-0	0	2.625-2	9.817-1	9.273-1				
1.339-4	4.706-1	4.710-1	4.421-1	1.309-1	1.022-1	2.090-1	2.398-0	0	2.021-2	8.435-1	7.927-1				
1.406-4	4.916-1	4.923-1	4.233-1	1.308-1	1.012-1	1.909-1	2.398-0	0	1.992-2	9.062-1	7.567-1				
1.511-4	4.995-1	4.999-1	4.166-1	1.308-1	1.002-1	1.856-1	2.398-0	0	1.939-2	7.353-1	7.471-1				
1.601-4	4.754-1	4.758-1	4.376-1	1.307-1	9.919-0	2.078-1	2.398-0	0	1.998-2	8.464-1	7.959-1				
1.694-4	4.328-1	4.331-1	4.807-1	1.306-1	9.817-0	2.519-1	2.398-0	0	2.323-2	9.314-1	8.787-1				
1.789-4	6.050-1	6.057-1	3.439-1	1.305-1	9.713-0	1.162-1	2.398-0	0	1.307-2	6.104-1	5.666-1				
1.887-4	4.805-1	4.809-1	4.332-1	1.305-1	9.606-0	2.065-1	2.398-0	0	1.975-2	8.498-1	7.996-1				
1.989-4	5.348-1	5.353-1	3.692-1	1.304-1	9.496-0	1.637-1	2.398-0	0	1.651-2	7.530-1	7.054-1				
2.091-4	4.957-1	4.960-1	4.562-1	1.301-1	9.116-0	2.353-1	2.398-0	0	2.169-2	9.159-1	8.642-1				
2.741-4	5.615-1	5.620-1	3.725-1	1.297-1	8.745-0	1.534-1	2.398-0	0	1.540-2	7.407-1	6.942-1				
3.267-4	6.016-1	6.022-1	3.458-1	1.293-1	8.474-0	1.318-1	2.398-0	0	1.367-2	6.836-1	6.390-1				
3.811-4	6.144-1	6.151-1	3.366-1	1.288-1	8.110-0	1.287-1	2.398-0	0	1.327-2	6.814-1	6.372-1				
4.704-4	6.078-1	6.085-1	3.423-1	1.284-1	7.811-0	1.358-1	2.398-0	0	1.366-2	7.096-1	6.649-1				
4.991-4	5.062-1	5.068-1	3.432-1	1.281-1	7.569-0	1.394-1	2.398-0	0	1.383-2	7.259-1	6.810-1				
5.159-4	5.630-1	5.636-1	3.562-1	1.278-1	7.303-0	1.561-1	2.398-0	0	1.493-2	7.789-1	7.337-1				
6.042-4	6.828-1	6.836-1	3.077-1	1.275-1	7.123-0	1.059-1	2.398-0	0	1.113-2	6.243-1	5.829-1				
6.367-4	6.792-1	6.800-1	3.053-1	1.272-1	6.941-0	1.107-1	2.398-0	0	1.136-2	6.470-1	6.061-1				
7.136-4	7.224-1	7.233-1	2.682-1	1.265-1	6.346-0	9.801-0	2.399-0	0	1.019-2	6.106-1	5.706-1				
8.322-4	7.882-1	7.893-1	2.673-1	1.258-1	5.834-0	7.978-0	2.399-0	0	8.594-1	5.439-1	5.068-1				
9.177-4	8.321-1	8.333-1	2.555-1	1.252-1	5.237-0	7.251-0	2.399-0	0	7.781-1	5.217-1	4.862-1				
1.058-3	8.627-1	8.640-1	2.411-1	1.249-1	3.980-0	7.635-0	2.399-0	0	7.501-1	5.654-1	5.309-1				
1.307-3	9.222-1	9.236-1	2.255-1	1.248-1	2.974-0	7.112-0	2.399-0	0	6.650-1	5.608-1	5.285-1				
1.581-3	9.596-1	9.612-1	2.162-1	1.246-1	2.685-0	6.537-0	2.399-0	0	6.090-1	5.362-1	5.055-1				
1.882-3	9.670-1	9.686-1	2.152-1	1.244-1	3.094-0	5.980-0	2.399-0	0	5.461-1	4.962-1	4.660-1				
2.208-3	1.033-1	1.035-1	2.014-1	1.242-1	2.079-0	5.634-0	2.399-0	0	5.143-1	4.969-1	4.651-1				
2.561-3	1.093-1	1.095-1	1.957-1	1.240-1	1.351-0	5.207-0	2.399-0	0	4.552-1	4.910-1	4.655-1				
2.940-3	1.113-1	1.115-1	1.870-1	1.238-1	1.339-0	4.976-0	2.399-0	0	4.316-1	4.709-1	4.462-1				
3.345-3	1.128-1	1.130-1	1.844-1	1.236-1	1.334-0	4.753-0	2.399-0	0	4.177-1	4.561-1	4.320-1				
3.777-3	1.144-1	1.147-1	1.816-1	1.233-1	1.321-0	4.527-0	2.399-0	0	3.973-1	4.409-1	4.174-1				
4.234-3	1.173-1	1.176-1	1.773-1	1.228-1	1.293-0	4.164-0	2.399-0	0	3.590-1	4.160-1	3.936-1				
5.763-3	1.215-1	1.217-1	1.713-1	1.219-1	1.246-0	3.697-0	2.399-0	0	3.321-1	3.828-1	3.619-1				
7.527-3	1.254-1	1.257-1	1.658-1	1.206-1	1.182-0	3.341-0	2.400-0	0	3.026-1	3.575-1	3.377-1				
1.025-2	1.314-1	1.317-1	1.583-1	1.192-1	1.080-0	2.932-0	2.400-0	0	2.676-1	3.289-1	3.105-1				
1.511-2	1.392-1	1.395-1	1.459-1	1.174-1	9.552-0	2.522-0	2.401-0	5.921-4	2.314-1	2.998-1	2.830-1				
2.091-2	1.450-1	1.453-1	1.435-1	1.110-1	9.152-0	2.306-0	2.402-0	3.071-2	2.214-1	2.857-1	2.694-1				
2.646-2	1.489-1	1.492-1	1.398-1	1.091-1	8.321-0	2.155-0	2.403-0	7.971-2	2.001-1	2.740-1	2.585-1				
3.267-2	1.518-1	1.521-1	1.371-1	1.078-1	7.824-0	2.012-0	2.404-0	1.342-1	1.884-1	2.609-1	2.461-1				
3.953-2	1.538-1	1.541-1	1.353-1	1.063-1	7.614-0	1.938-0	2.405-0	1.941-1	1.831-1	2.546-1	2.402-1				
4.704-2	1.573-1	1.576-1	1.323-1	1.045-1	6.842-0	1.853-0	2.406-0	2.551-1	1.736-1	2.487-1	2.349-1				
5.761-2	1.617-1	1.624-1	1.287-1	1.022-1	5.936-0	1.758-0	2.408-0	2.932-1	1.640-1	2.423-1	2.280-1				
7.002-2	1.654-1	1.658-1	1.255-1	9.960-0	6.040-1	1.677-0	2.410-0	3.332-1	1.593-1	2.366-1	2.234-1				
8.322-2	1.708-1	1.732-1	1.218-1	9.679-0	5.383-1	1.586-0	2.412-0	3.783-1	1.505-1	2.310-1	2.187-1				
9.891-2	1.799-1	1.937-1	1.157-1	9.167-0	4.446-1	1.502-0	2.415-0	4.585-1	1.415-1	2.300-1	2.117-1				
1.307-1	1.958-1	2.147-1	1.057-1	8.233-0	3.608-1	1.423-0	2.420-0	5.548-1	1.338-1	2.380-1	2.257-1				
1.820-1	2.145-1	2.393-1	0.998-1	7.368-0	3.242-1	1.351-0	2.425-0	6.348-1	1.282-1	2.463-1	2.336-1				
2.075-1	2.270-1	2.493-1	0.939-1	7.119-0	3.003-1	1.323-0	2.429-0	6.970-1	1.262-1	2.476-1	2.350-1				
2.417-1	2.470-1	2.581-1	0.867-1	6.924-0	2.765-1	1.301-0	2.433-0	7.601-1	1.247-1	2.474-1	2.349-1				
2.710-1	2.702-1	2.685-1	0.915-1	6.810-0	2.607-1	1.283-0	2.437-0	8.042-1	1.236-1	2.473-1	2.349-1				
2.940-1	2.311-1	2.748-1	0.901-1	6.641-0	2.419-1	1.261-0	2.441-0	8.571-1	1.223-1	2.472-1	2.349-1				
3.345-1	2.366-1	2.885-1	0.874-1	6.418-0	2.171-1	1.232-0	2.446-0	9.268-1	1.206-1	2.471-1	2.349-1				
3.777-1	2.425-1	2.991-1	0.878-1	6.181-1	1.962-1	1.201-0	2.452-0	9.999-1	1.189-1	2.469-1	2.349-1				
4.234-1	2.519-1	3.147-1	0.862-1	5.823-0	1.788-1	1.158-0	2.461-0	1.101-1	1.185-1	2.470-1	2.349-1				
5.121-1	2.660-1	3.382-1	0.832-1	5.360-0	1.511-1	1.116-0	2.474-0	1.193-1	1.145-1	2.515-1	2.392-1				
6.325-1	2.818-1	3.582-1	0.732-1	4.895-0	1.189-1	1.102-0	2.490-0	1.266-1	1.134-1	2.623-1	2.502-1				

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92-U -235

04/12/76

ENDL 175 Group Neutron Constants

92-U -235

ATOMIC WEIGHT 2.3504 ± 2				DENSITY 1.8760 ± 1 GRAMS/CC																			
ENERGY MEV	HFP (CM)		CROSS SECTION (BARN)										ENERGY DEPOSITION TOTAL LOCAL										
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	FISSION	NEUTRON	NEUTRON	NEUTRON	NEUTRON	NEUTRON	NEUTRON											
7.527	1	2.917	0	3.696	0	7.133	0	4.595	0	3.119	1	1.125	0	2.506	0	3.341	0	1.13	0	2.760	1	2.643	1
6.934	1	3.013	0	3.801	0	6.904	0	4.175	0	3.16	1	1.191	0	2.524	0	3.423	0	2.11	0	3.017	1	2.880	1
6.350	1	3.100	0	3.921	0	6.710	0	3.900	0	2.996	2	1.213	0	2.543	0	3.500	0	3.71	0	3.102	1	3.026	1
5.765	1	3.149	0	4.083	0	6.509	0	3.726	0	2.700	2	1.216	0	2.563	0	3.579	0	4.11	0	3.243	1	3.062	1
5.180	1	3.117	0	4.255	0	6.275	0	3.712	0	2.531	2	1.225	0	2.585	0	3.662	0	4.37	0	3.295	1	3.072	1
4.594	1	3.067	0	4.425	0	6.033	0	3.795	0	2.350	2	1.250	0	2.608	0	3.731	0	4.65	0	3.251	1	3.084	1
4.009	1	3.007	0	4.600	0	5.819	0	3.795	0	2.177	2	1.277	0	2.633	0	3.807	0	4.96	0	3.256	1	3.096	1
3.424	1	2.935	0	4.775	0	5.600	0	3.901	0	2.002	2	1.269	0	2.659	0	3.885	0	5.26	0	3.210	1	3.108	1
2.839	1	2.855	0	4.950	0	5.380	0	4.059	0	1.827	2	1.285	0	2.686	0	3.960	0	5.60	0	3.119	1	3.120	1
2.254	1	2.774	0	5.125	0	5.161	0	4.233	0	1.652	2	1.278	0	2.711	0	4.050	0	6.12	0	3.077	1	3.131	1
1.669	1	2.722	0	5.300	0	4.942	0	4.360	0	1.477	2	1.264	0	2.743	0	4.130	0	6.59	0	2.933	1	3.143	1
1.084	1	2.684	0	5.475	0	4.713	0	4.488	0	1.302	2	1.248	0	2.774	0	4.211	0	7.11	0	2.859	1	3.155	1
0.499	1	2.660	0	5.650	0	4.484	0	4.578	0	1.127	2	1.236	0	2.808	0	4.295	0	7.79	0	2.789	1	3.167	1
0.314	1	2.622	0	5.825	0	4.255	0	4.703	0	0.952	2	1.220	0	2.842	0	4.386	0	8.30	0	2.727	1	3.179	1
0.129	1	2.605	0	6.000	0	4.026	0	4.828	0	0.777	2	1.204	0	2.877	0	4.477	0	8.81	0	2.664	1	3.191	1
0.044	1	2.588	0	6.175	0	3.797	0	4.953	0	0.602	2	1.186	0	2.912	0	4.568	0	9.32	0	2.605	1	3.203	1
0.009	1	2.571	0	6.350	0	3.568	0	5.078	0	0.427	2	1.168	0	2.947	0	4.659	0	9.83	0	2.546	1	3.215	1
0.000	1	2.554	0	6.525	0	3.339	0	5.203	0	0.252	2	1.150	0	2.982	0	4.750	0	10.34	0	2.487	1	3.227	1
0.000	1	2.537	0	6.700	0	3.110	0	5.328	0	0.077	2	1.132	0	3.017	0	4.841	0	10.85	0	2.428	1	3.239	1
0.000	1	2.520	0	6.875	0	2.881	0	5.453	0	0.000	2	1.114	0	3.052	0	4.932	0	11.36	0	2.369	1	3.251	1
0.000	1	2.503	0	7.050	0	2.652	0	5.578	0	0.000	2	1.096	0	3.087	0	5.023	0	11.87	0	2.310	1	3.263	1
0.000	1	2.486	0	7.225	0	2.423	0	5.703	0	0.000	2	1.078	0	3.122	0	5.114	0	12.38	0	2.251	1	3.275	1
0.000	1	2.469	0	7.400	0	2.194	0	5.828	0	0.000	2	1.060	0	3.157	0	5.205	0	12.89	0	2.192	1	3.287	1
0.000	1	2.452	0	7.575	0	1.965	0	5.953	0	0.000	2	1.042	0	3.192	0	5.296	0	13.40	0	2.133	1	3.299	1
0.000	1	2.435	0	7.750	0	1.736	0	6.078	0	0.000	2	1.024	0	3.227	0	5.387	0	13.91	0	2.074	1	3.311	1
0.000	1	2.418	0	7.925	0	1.507	0	6.203	0	0.000	2	1.006	0	3.262	0	5.478	0	14.42	0	2.015	1	3.323	1
0.000	1	2.401	0	8.100	0	1.278	0	6.328	0	0.000	2	0.988	0	3.297	0	5.569	0	14.93	0	1.956	1	3.335	1
0.000	1	2.384	0	8.275	0	1.049	0	6.453	0	0.000	2	0.970	0	3.332	0	5.660	0	15.44	0	1.897	1	3.347	1
0.000	1	2.367	0	8.450	0	0.820	0	6.578	0	0.000	2	0.952	0	3.367	0	5.751	0	15.95	0	1.838	1	3.359	1
0.000	1	2.350	0	8.625	0	0.591	0	6.703	0	0.000	2	0.934	0	3.402	0	5.842	0	16.46	0	1.779	1	3.371	1
0.000	1	2.333	0	8.800	0	0.362	0	6.828	0	0.000	2	0.916	0	3.437	0	5.933	0	16.97	0	1.720	1	3.383	1
0.000	1	2.316	0	8.975	0	0.133	0	6.953	0	0.000	2	0.898	0	3.472	0	6.024	0	17.48	0	1.661	1	3.395	1
0.000	1	2.299	0	9.150	0	0.000	0	7.078	0	0.000	2	0.880	0	3.507	0	6.115	0	17.99	0	1.602	1	3.407	1
0.000	1	2.282	0	9.325	0	0.000	0	7.203	0	0.000	2	0.862	0	3.542	0	6.206	0	18.50	0	1.543	1	3.419	1
0.000	1	2.265	0	9.500	0	0.000	0	7.328	0	0.000	2	0.844	0	3.577	0	6.297	0	19.01	0	1.484	1	3.431	1
0.000	1	2.248	0	9.675	0	0.000	0	7.453	0	0.000	2	0.826	0	3.612	0	6.388	0	19.52	0	1.425	1	3.443	1
0.000	1	2.231	0	9.850	0	0.000	0	7.578	0	0.000	2	0.808	0	3.647	0	6.479	0	20.03	0	1.366	1	3.455	1
0.000	1	2.214	0	10.025	0	0.000	0	7.703	0	0.000	2	0.790	0	3.682	0	6.570	0	20.54	0	1.307	1	3.467	1
0.000	1	2.197	0	10.200	0	0.000	0	7.828	0	0.000	2	0.772	0	3.717	0	6.661	0	21.05	0	1.248	1	3.479	1
0.000	1	2.180	0	10.375	0	0.000	0	7.953	0	0.000	2	0.754	0	3.752	0	6.752	0	21.56	0	1.189	1	3.491	1
0.000	1	2.163	0	10.550	0	0.000	0	8.078	0	0.000	2	0.736	0	3.787	0	6.843	0	22.07	0	1.130	1	3.503	1
0.000	1	2.146	0	10.725	0	0.000	0	8.203	0	0.000	2	0.718	0	3.822	0	6.934	0	22.58	0	1.071	1	3.515	1
0.000	1	2.129	0	10.900	0	0.000	0	8.328	0	0.000	2	0.700	0	3.857	0	7.025	0	23.09	0	1.012	1	3.527	1
0.000	1	2.112	0	11.075	0	0.000	0	8.453	0	0.000	2	0.682	0	3.892	0	7.116	0	23.60	0	0.953	1	3.539	1
0.000	1	2.095	0	11.250	0	0.000	0	8.578	0	0.000	2	0.664	0	3.927	0	7.207	0	24.11	0	0.894	1	3.551	1
0.000	1	2.078	0	11.425	0	0.000	0	8.703	0	0.000	2	0.646	0	3.962	0	7.298	0	24.62	0	0.835	1	3.563	1
0.000	1	2.061	0	11.600	0	0.000	0	8.828	0	0.000	2	0.628	0	4.000	0	7.389	0	25.13	0	0.776	1	3.575	1
0.000	1	2.044	0	11.775	0	0.000	0	8.953	0	0.000	2	0.610	0	4.035	0	7.480	0	25.64	0	0.717	1	3.587	1
0.000	1	2.027	0	11.950	0	0.000	0	9.078	0	0.000	2	0.592	0	4.070	0	7.571	0	26.15	0	0.658	1	3.599	1
0.000	1	2.010	0	12.125	0	0.000	0	9.203	0	0.000	2	0.574	0	4.105	0	7.662	0	26.66	0	0.599	1	3.611	1
0.000	1	1.993	0	12.300	0	0.000	0	9.328	0	0.000	2	0.556	0	4.140	0	7.753	0	27.17	0	0.540	1	3.623	1
0.000	1	1.976	0	12.475	0	0.000	0	9.453	0	0.000	2	0.538	0	4.175	0	7.844	0	27.68	0	0.481	1	3.635	1
0.000	1	1.959	0	12.650	0	0.000	0	9.578	0	0.000	2	0.520	0	4.210	0	7.935	0	28.19	0	0.422	1	3.647	1
0.000	1	1.942	0	12.825	0	0.000	0	9.703	0	0.000	2	0.502	0	4.245	0	8.026	0	28.70	0	0.363	1	3.659	1
0.000	1	1.925	0	13.000	0	0.000	0	9.828	0	0.000	2	0.484	0	4.280	0	8.117	0	29.21	0	0.304	1	3.671	1
0.000	1	1.908	0	13.175	0	0.000	0	9.953	0	0.000	2	0.466	0	4.315	0	8.208	0	29.72	0	0.245	1	3.683	1
0.000	1	1.891	0	13.350	0	0.000	0	10.078	0	0.000	2	0.448	0	4.350	0	8.299	0	30.23	0	0.186	1	3.695	1
0.000	1	1.874	0	13.525	0	0.000	0	10.203	0	0.000	2	0.430	0	4.385	0	8.390	0	30.74	0	0.127	1	3.707	1
0.000	1	1.857	0	13.700	0	0.000	0	10.328	0	0.000	2	0.412	0	4.420	0	8.481	0	31.25	0	0.068	1	3.719	1
0.000	1	1.840	0	13.875	0	0.000	0	10.453	0	0.000	2	0.394	0	4.455	0	8.572	0	31.76	0

04/12/76

ENDL 175 Group Neutron Constants

92-U -236

ATOMIC WEIGHT 2.3605 ± 2				DENSITY 1.0640 ± 1 GRAMS/CC							
ENERGY	MFP (CM)	CROSS SECTION (BARNs)						ENERGY DEPOSITIVITY (%)			
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	7.658	1.667-1	2.717-1	1.200-1	1.467-1	5.000-1	2.330-0	1.026-2	5.991-0	3.089-0	
5.227-9	1.049-0	1.050-0	1.584-0	1.200-0	7.341-0	5.000-1	2.330-0	5.317-1	6.313-0	4.230-0	
2.091-8	1.194-0	1.197-0	1.742-0	1.200-1	4.918-0	5.000-1	2.330-0	3.682-1	6.479-0	4.618-0	
2.261-8	1.252-0	1.255-0	1.652-0	1.200-1	4.117-0	5.000-1	2.330-0	3.141-1	6.544-0	5.050-0	
4.704-8	1.314-0	1.316-0	1.584-0	1.200-1	3.339-0	5.000-1	2.330-0	2.615-1	6.615-0	5.239-0	
8.322-8	1.371-0	1.374-0	1.518-0	1.200-1	2.678-0	5.000-1	2.330-0	2.170-1	6.679-0	5.293-0	
1.307-7	1.411-0	1.414-0	1.474-0	1.200-1	2.244-0	5.000-1	2.330-0	1.877-1	6.725-0	5.692-0	
1.882-7	1.441-0	1.444-0	1.444-0	1.200-1	1.939-0	5.000-1	2.330-0	1.671-1	6.759-0	5.812-0	
2.561-7	1.464-0	1.468-0	1.421-0	1.200-1	1.710-0	5.000-1	2.330-0	1.517-1	6.786-0	5.906-0	
3.345-7	1.483-0	1.486-0	1.403-0	1.200-1	1.533-0	5.000-1	2.330-0	1.397-1	6.807-0	5.980-0	
4.234-7	1.497-0	1.501-0	1.390-0	1.200-1	1.398-0	5.000-1	2.330-0	1.306-1	6.823-0	6.038-0	
5.123-7	1.515-0	1.519-0	1.373-0	1.200-1	1.230-0	5.000-1	2.330-0	1.193-1	6.844-0	6.112-0	
7.527-7	1.538-0	1.542-0	1.353-0	1.200-1	1.029-0	5.000-1	2.330-0	1.057-1	6.870-0	6.203-0	
1.176-6	1.549-0	1.553-0	1.343-0	1.200-1	9.280-1	5.000-1	2.330-0	9.889-0	6.683-0	6.250-0	
1.511-6	1.557-0	1.561-0	1.336-0	1.200-1	8.597-1	5.000-1	2.330-0	9.428-0	6.692-0	6.282-0	
2.091-6	1.555-0	1.569-0	1.330-0	1.200-1	7.957-1	5.000-1	2.330-0	8.996-0	6.900-0	6.312-0	
2.741-6	1.539-0	1.542-0	1.352-0	1.200-1	1.023-0	5.000-1	2.330-0	1.053-1	6.870-0	6.206-0	
3.533-6	1.303-0	1.305-0	1.597-0	1.200-1	3.472-0	5.000-1	2.330-0	2.706-1	6.602-0	5.254-0	
4.704-6	6.416-3	6.416-3	3.243-3	1.200-1	3.230-3	5.000-1	2.330-0	2.181-4	5.127-0	2.594-2	
5.658-6	2.260-2	2.260-2	9.206-2	1.200-1	9.081-2	5.000-1	2.330-0	6.133-3	5.146-0	9.122-2	
6.737-6	4.914-1	4.917-1	4.234-1	1.200-1	2.984-1	5.000-1	2.330-0	2.051-2	5.679-0	1.982-0	
8.322-6	8.248-1	8.260-1	1.252-1	1.200-1	1.272-1	5.000-1	2.330-0	8.950-1	6.058-0	3.327-0	
9.620-6	1.528-0	1.532-0	1.362-0	1.200-1	1.116-0	5.000-1	2.330-0	1.116-1	6.858-0	6.163-0	
1.101-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
1.307-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
1.468-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
1.581-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
1.758-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
1.882-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
2.075-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
2.277-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
2.417-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
2.561-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
2.710-5	1.600-0	1.605-0	1.300-0	1.200-1	5.000-1	5.000-1	2.330-0	7.000-0	6.941-0	6.455-0	
2.857-5	9.651-1	9.666-1	2.156-1	1.200-1	9.057-0	5.000-1	2.330-0	6.476-1	6.218-0	3.893-0	
3.290-5	3.006-0	3.007-0	6.922-0	1.200-1	5.672-1	4.969-1	2.330-0	3.865-0	5.454-0	1.205-0	
3.099-5	4.050-1	4.052-1	5.137-1	1.200-1	3.890-1	4.778-1	2.330-0	2.660-2	5.507-0	1.561-0	
3.345-5	1.787-1	1.788-1	1.164-2	1.200-1	1.039-2	4.527-1	2.330-0	7.049-2	5.254-0	6.529-1	
3.601-5	8.989-1	8.991-1	2.451-1	1.200-1	1.208-1	4.267-1	2.330-0	8.464-1	5.576-0	2.922-0	
3.866-5	1.444-0	1.448-0	1.440-0	1.200-1	2.000-0	4.043-1	2.330-0	1.643-1	5.633-0	4.711-0	
4.048-5	1.293-0	1.295-0	1.609-0	1.200-1	3.708-0	3.859-1	2.330-0	2.783-1	5.384-0	4.025-0	
4.234-5	3.508-1	3.510-1	5.930-1	1.200-1	4.693-1	3.719-1	2.330-0	3.195-2	5.511-0	1.053-0	
4.369-5	1.565-1	1.566-1	1.389-2	1.200-1	1.205-2	3.526-1	2.330-0	9.163-2	5.109-0	4.454-1	
4.619-5	4.413-1	4.417-1	4.714-1	1.200-1	3.481-1	3.332-1	2.330-0	2.374-2	5.020-0	1.186-0	
4.717-5	1.104-0	1.106-0	1.895-1	1.200-1	6.528-0	3.182-1	2.330-0	4.637-1	4.734-0	2.834-0	
4.918-5	1.276-0	1.278-0	1.631-1	1.200-1	4.009-0	2.979-1	2.330-0	2.922-1	4.462-0	3.067-0	
5.123-5	1.362-0	1.365-0	1.528-1	1.200-1	3.000-0	2.772-1	2.330-0	2.226-1	4.187-0	3.046-0	
5.332-5	1.364-0	1.367-0	1.525-1	1.200-1	3.000-0	2.507-1	2.330-0	2.207-1	3.890-0	2.759-0	
5.634-5	1.365-0	1.369-0	1.523-1	1.200-1	3.000-0	2.292-1	2.330-0	2.191-1	3.647-0	2.526-0	
5.763-5	1.368-0	1.371-0	1.521-1	1.200-1	3.000-0	2.070-1	2.330-0	2.175-1	3.397-0	2.285-0	
6.097-5	1.371-0	1.374-0	1.518-1	1.200-1	3.000-0	1.789-1	2.330-0	2.155-1	3.079-0	1.978-0	
6.325-5	1.373-0	1.376-0	1.516-1	1.200-1	3.000-0	1.559-1	2.330-0	2.138-1	2.817-0	1.727-0	
6.557-5	1.097-0	1.099-0	1.896-1	1.200-1	6.824-0	1.384-1	2.330-0	4.709-1	3.123-0	1.225-0	
6.674-5	3.658-1	3.661-1	5.687-1	1.200-1	4.476-1	1.147-1	2.330-0	3.029-2	4.393-0	3.387-1	
6.703-5	1.665-1	1.666-1	1.249-2	1.200-1	1.128-2	9.843-2	2.330-0	7.624-2	4.762-0	1.363-1	
7.155-5	1.762-1	1.762-1	1.131-2	1.200-1	1.060-2	8.431-2	2.330-0	7.151-2	4.735-1	1.342-1	
7.527-5	8.812-1	8.825-1	2.361-1	1.200-1	1.152-1	8.911-2	2.330-0	7.841-1	3.160-0	6.035-1	
7.780-5	1.159-0	1.161-0	1.795-1	1.200-1	5.865-0	8.593-2	2.330-0	4.021-1	2.512-1	8.033-1	
7.908-5	1.164-0	1.166-0	1.787-1	1.200-1	5.790-0	8.271-2	2.330-0	3.968-1	2.470-1	7.767-1	
8.167-5	8.948-1	8.961-1	2.325-1	1.200-1	1.117-1	7.835-2	2.330-0	7.599-1	3.051-1	5.856-1	
8.431-5	2.909-1	2.911-1	7.151-1	1.200-1	5.944-1	7.280-2	2.330-0	4.018-2	4.434-0	1.710-1	
8.834-5	2.111-1	2.112-1	9.855-1	1.200-1	8.648-1	6.716-2	2.330-0	5.842-2	4.613-0	1.745-1	

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2 3605.2				DENSITY 1.0800 1 GRAMS/CC			
ENERGY PER		CROSS SECTION		CROSS SECTION		ENERGY DEPOSITION	
ME.	CM.	CM.	CM.	CM.	CM.	CM.	CM.
ME.	CM.	CM.	CM.	CM.	CM.	CM.	CM.
1.100	1.150	1.200	1.250	1.300	1.350	1.400	1.450
1.160	1.210	1.260	1.310	1.360	1.410	1.460	1.510
1.610	1.660	1.710	1.760	1.810	1.860	1.910	1.960
1.910	1.960	2.010	2.060	2.110	2.160	2.210	2.260
1.070	1.120	1.170	1.220	1.270	1.320	1.370	1.420
1.160	1.210	1.260	1.310	1.360	1.410	1.460	1.510
1.250	1.300	1.350	1.400	1.450	1.500	1.550	1.600
1.340	1.390	1.440	1.490	1.540	1.590	1.640	1.690
1.430	1.480	1.530	1.580	1.630	1.680	1.730	1.780
1.520	1.570	1.620	1.670	1.720	1.770	1.820	1.870
1.610	1.660	1.710	1.760	1.810	1.860	1.910	1.960
1.700	1.750	1.800	1.850	1.900	1.950	2.000	2.050
1.790	1.840	1.890	1.940	1.990	2.040	2.090	2.140
1.880	1.930	1.980	2.030	2.080	2.130	2.180	2.230
1.970	2.020	2.070	2.120	2.170	2.220	2.270	2.320
2.060	2.110	2.160	2.210	2.260	2.310	2.360	2.410
2.150	2.200	2.250	2.300	2.350	2.400	2.450	2.500
2.240	2.290	2.340	2.390	2.440	2.490	2.540	2.590
2.330	2.380	2.430	2.480	2.530	2.580	2.630	2.680
2.420	2.470	2.520	2.570	2.620	2.670	2.720	2.770
2.510	2.560	2.610	2.660	2.710	2.760	2.810	2.860
2.600	2.650	2.700	2.750	2.800	2.850	2.900	2.950
2.690	2.740	2.790	2.840	2.890	2.940	2.990	3.040
2.780	2.830	2.880	2.930	2.980	3.030	3.080	3.130
2.870	2.920	2.970	3.020	3.070	3.120	3.170	3.220
2.960	3.010	3.060	3.110	3.160	3.210	3.260	3.310
3.050	3.100	3.150	3.200	3.250	3.300	3.350	3.400
3.140	3.190	3.240	3.290	3.340	3.390	3.440	3.490
3.230	3.280	3.330	3.380	3.430	3.480	3.530	3.580
3.320	3.370	3.420	3.470	3.520	3.570	3.620	3.670
 						

04/12/76

ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 236.045562		DENSITY 19.102 G/CC		ENDG 1		ENDG 2		ENDG 3		ENDG 4		ENDG 5		ENDG 6		ENDG 7		ENDG 8		ENDG 9		ENDG 10		ENDG 11		ENDG 12		ENDG 13		ENDG 14		ENDG 15		ENDG 16		ENDG 17		ENDG 18		ENDG 19		ENDG 20		ENDG 21		ENDG 22		ENDG 23		ENDG 24		ENDG 25		ENDG 26		ENDG 27		ENDG 28		ENDG 29		ENDG 30		ENDG 31		ENDG 32		ENDG 33		ENDG 34		ENDG 35		ENDG 36		ENDG 37		ENDG 38		ENDG 39		ENDG 40		ENDG 41		ENDG 42		ENDG 43		ENDG 44		ENDG 45		ENDG 46		ENDG 47		ENDG 48		ENDG 49		ENDG 50		ENDG 51		ENDG 52		ENDG 53		ENDG 54		ENDG 55		ENDG 56		ENDG 57		ENDG 58		ENDG 59		ENDG 60		ENDG 61		ENDG 62		ENDG 63		ENDG 64		ENDG 65		ENDG 66		ENDG 67		ENDG 68		ENDG 69		ENDG 70		ENDG 71		ENDG 72		ENDG 73		ENDG 74		ENDG 75		ENDG 76		ENDG 77		ENDG 78		ENDG 79		ENDG 80		ENDG 81		ENDG 82		ENDG 83		ENDG 84		ENDG 85		ENDG 86		ENDG 87		ENDG 88		ENDG 89		ENDG 90		ENDG 91		ENDG 92		ENDG 93		ENDG 94		ENDG 95		ENDG 96		ENDG 97		ENDG 98		ENDG 99		ENDG 100		ENDG 101		ENDG 102		ENDG 103		ENDG 104		ENDG 105		ENDG 106		ENDG 107		ENDG 108		ENDG 109		ENDG 110		ENDG 111		ENDG 112		ENDG 113		ENDG 114		ENDG 115		ENDG 116		ENDG 117		ENDG 118		ENDG 119		ENDG 120		ENDG 121		ENDG 122		ENDG 123		ENDG 124		ENDG 125		ENDG 126		ENDG 127		ENDG 128		ENDG 129		ENDG 130		ENDG 131		ENDG 132		ENDG 133		ENDG 134		ENDG 135		ENDG 136		ENDG 137		ENDG 138		ENDG 139		ENDG 140		ENDG 141		ENDG 142		ENDG 143		ENDG 144		ENDG 145		ENDG 146		ENDG 147		ENDG 148		ENDG 149		ENDG 150		ENDG 151		ENDG 152		ENDG 153		ENDG 154		ENDG 155		ENDG 156		ENDG 157		ENDG 158		ENDG 159		ENDG 160		ENDG 161		ENDG 162		ENDG 163		ENDG 164		ENDG 165		ENDG 166		ENDG 167		ENDG 168		ENDG 169		ENDG 170		ENDG 171		ENDG 172		ENDG 173		ENDG 174		ENDG 175		ENDG 176		ENDG 177		ENDG 178		ENDG 179		ENDG 180		ENDG 181		ENDG 182		ENDG 183		ENDG 184		ENDG 185		ENDG 186		ENDG 187		ENDG 188		ENDG 189		ENDG 190		ENDG 191		ENDG 192		ENDG 193		ENDG 194		ENDG 195		ENDG 196		ENDG 197		ENDG 198		ENDG 199		ENDG 200		ENDG 201		ENDG 202		ENDG 203		ENDG 204		ENDG 205		ENDG 206		ENDG 207		ENDG 208		ENDG 209		ENDG 210		ENDG 211		ENDG 212		ENDG 213		ENDG 214		ENDG 215		ENDG 216		ENDG 217		ENDG 218		ENDG 219		ENDG 220		ENDG 221		ENDG 222		ENDG 223		ENDG 224		ENDG 225		ENDG 226		ENDG 227		ENDG 228		ENDG 229		ENDG 230		ENDG 231		ENDG 232		ENDG 233		ENDG 234		ENDG 235		ENDG 236		ENDG 237		ENDG 238		ENDG 239		ENDG 240		ENDG 241		ENDG 242		ENDG 243		ENDG 244		ENDG 245		ENDG 246		ENDG 247		ENDG 248		ENDG 249		ENDG 250		ENDG 251		ENDG 252		ENDG 253		ENDG 254		ENDG 255		ENDG 256		ENDG 257		ENDG 258		ENDG 259		ENDG 260		ENDG 261		ENDG 262		ENDG 263		ENDG 264		ENDG 265		ENDG 266		ENDG 267		ENDG 268		ENDG 269		ENDG 270		ENDG 271		ENDG 272		ENDG 273		ENDG 274		ENDG 275		ENDG 276		ENDG 277		ENDG 278		ENDG 279		ENDG 280		ENDG 281		ENDG 282		ENDG 283		ENDG 284		ENDG 285		ENDG 286		ENDG 287		ENDG 288		ENDG 289		ENDG 290		ENDG 291		ENDG 292		ENDG 293		ENDG 294		ENDG 295		ENDG 296		ENDG 297		ENDG 298		ENDG 299		ENDG 300		ENDG 301		ENDG 302		ENDG 303		ENDG 304		ENDG 305		ENDG 306		ENDG 307		ENDG 308		ENDG 309		ENDG 310		ENDG 311		ENDG 312		ENDG 313		ENDG 314		ENDG 315		ENDG 316		ENDG 317		ENDG 318		ENDG 319		ENDG 320		ENDG 321		ENDG 322		ENDG 323		ENDG 324		ENDG 325		ENDG 326		ENDG 327		ENDG 328		ENDG 329		ENDG 330		ENDG 331		ENDG 332		ENDG 333		ENDG 334		ENDG 335		ENDG 336		ENDG 337		ENDG 338		ENDG 339		ENDG 340		ENDG 341		ENDG 342		ENDG 343		ENDG 344		ENDG 345		ENDG 346		ENDG 347		ENDG 348		ENDG 349		ENDG 350		ENDG 351		ENDG 352		ENDG 353		ENDG 354		ENDG 355		ENDG 356		ENDG 357		ENDG 358		ENDG 359		ENDG 360		ENDG 361		ENDG 362		ENDG 363		ENDG 364		ENDG 365		ENDG 366		ENDG 367		ENDG 368		ENDG 369		ENDG 370		ENDG 371		ENDG 372		ENDG 373		ENDG 374		ENDG 375		ENDG 376		ENDG 377		ENDG 378		ENDG 379		ENDG 380		ENDG 381		ENDG 382		ENDG 383		ENDG 384		ENDG 385		ENDG 386		ENDG 387		ENDG 388		ENDG 389		ENDG 390		ENDG 391		ENDG 392		ENDG 393		ENDG 394		ENDG 395		ENDG 396		ENDG 397		ENDG 398		ENDG 399		ENDG 400		ENDG 401		ENDG 402		ENDG 403		ENDG 404		ENDG 405		ENDG 406		ENDG 407		ENDG 408		ENDG 409		ENDG 410		ENDG 411		ENDG 412		ENDG 413		ENDG 414		ENDG 415		ENDG 416		ENDG 417		ENDG 418		ENDG 419		ENDG 420		ENDG 421		ENDG 422		ENDG 423	
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ENDL 175 Group Neutron Constants

92-U -237

Barns

ATOMIC WEIGHT P 3712.2				DENSITY 1.8926+1 GRAMS/CC								
ENERGY		PER UNIT		CROSS SECTION (BARNs)				ENERGY DEPOSITION RATE				
MEV	CM	CM	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	FUSION	NUCL. BAR	REMAINDER	GAM-PROD	TOTAL	LOCAL
1.0	1.839	1.839	1.131	1.36	1.117	3.500	1.260	0.95	3.6118	0.5199		
1.5	1.584	1.584	2.572	3.9	5.584	3.500	1.260	4.525	3.1099	0.1027		
2.0	1.498	1.498	4.86	3.2	3.66	3.500	1.260	3.021	3.5800	0.1521		
2.5	1.430	1.430	6.205	2.39	3.067	3.500	1.260	2.487	3.3680	0.1933		
3.0	1.375	1.375	7.571	2.333	2.434	3.500	1.260	1.974	3.0552	0.2285		
3.5	1.331	1.331	8.962	2.325	1.910	3.500	1.260	1.579	2.6332	0.272		
4.0	1.298	1.298	10.379	2.322	1.502	3.500	1.260	1.275	2.2182	0.313		
4.5	1.274	1.274	11.813	2.321	1.337	3.500	1.260	1.065	3.5991	0.3988		
5.0	1.259	1.259	13.260	2.319	1.165	3.500	1.260	0.9460	2.5973	0.518		
5.5	1.244	1.244	14.721	2.316	1.032	3.500	1.260	0.8385	2.5955	0.532		
6.0	1.229	1.229	16.199	2.314	0.917	3.500	1.260	0.742	2.5940	0.545		
6.5	1.214	1.214	17.693	2.313	0.819	3.500	1.260	0.6589	2.5928	0.703		
7.0	1.199	1.199	19.202	2.311	0.731	3.500	1.260	0.589	2.5910	0.500		
7.5	1.184	1.184	20.725	2.31	0.651	1.100	0.360	0.528	2.7653	0.527		
8.0	1.169	1.169	22.261	2.309	0.579	1.156	0.360	0.480	2.9552	0.638		
8.5	1.154	1.154	23.810	2.308	0.513	1.214	0.360	0.433	2.252	1.753		
9.0	1.139	1.139	25.371	2.307	0.451	1.273	0.360	0.383	2.4950	1.456		
9.5	1.124	1.124	26.944	2.306	0.393	1.332	0.360	0.343	2.5988	1.573		
10.0	1.109	1.109	28.529	2.305	0.339	1.391	0.360	0.303	2.6950	1.690		
10.5	1.094	1.094	30.125	2.304	0.289	1.450	0.360	0.263	2.7828	1.807		
11.0	1.079	1.079	31.732	2.303	0.241	1.509	0.360	0.223	2.8620	1.924		
11.5	1.064	1.064	33.350	2.302	0.195	1.568	0.360	0.183	2.9328	2.041		
12.0	1.049	1.049	34.978	2.301	0.151	1.627	0.360	0.143	3.0032	2.158		
12.5	1.034	1.034	36.616	2.300	0.107	1.686	0.360	0.103	3.0732	2.275		
13.0	1.019	1.019	38.264	2.299	0.064	1.745	0.360	0.063	3.1428	2.392		
13.5	1.004	1.004	39.921	2.298	0.021	1.804	0.360	0.021	3.2120	2.509		
14.0	0.989	0.989	41.588	2.297	0.017	1.863	0.360	0.017	3.2808	2.626		
14.5	0.974	0.974	43.264	2.296	0.013	1.922	0.360	0.013	3.3492	2.743		
15.0	0.959	0.959	44.949	2.295	0.009	1.981	0.360	0.009	3.4172	2.860		
15.5	0.944	0.944	46.643	2.294	0.005	2.040	0.360	0.005	3.4848	2.977		
16.0	0.929	0.929	48.346	2.293	0.003	2.099	0.360	0.003	3.5520	3.094		
16.5	0.914	0.914	50.057</									

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ENDL 175 Group Neutron Constants

92-U -237

ATOMIC WEIGHT 2.3712 ± 2		DENSITY 1.8926 ± 1 GRAMS/CC																			
ENERGY MEV	MFP (CM)	CROSS SECTION (BARNS)																			
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB	FISSION	NU-BAR	REMAINDER	GAM-PROD.	ENERGY DEPOSITION (eV)										
											TOTAL	LOCAL									
9.108	5	8.95	1	8.967	1	2.32	1	2.25	1	7.265	0	3.416	0	2.360	0	8.365	1	2.769	1	2.466	1
9.096	5	9.018	1	9.031	1	2.307	1	2.255	1	7.156	0	3.367	0	2.360	0	8.238	1	2.749	1	2.449	1
9.068	5	9.062	1	9.076	1	2.296	1	2.255	1	7.080	0	3.332	0	2.360	0	8.154	1	2.735	1	2.430	1
9.011	5	9.118	1	9.132	1	2.262	1	2.251	1	6.990	0	3.285	0	2.360	0	8.044	1	2.712	1	2.415	1
9.025	5	9.234	1	9.249	1	2.253	1	2.251	1	5.806	0	3.188	0	2.360	0	7.922	1	2.666	1	2.374	1
1.095	4	9.383	1	9.398	1	2.217	1	2.253	1	6.572	0	3.072	0	2.360	0	7.551	1	2.610	1	2.324	1
1.176	4	9.514	1	9.529	1	2.197	1	2.252	1	6.372	0	2.974	0	2.360	0	7.318	1	2.563	1	2.282	1
1.256	4	9.648	1	9.664	1	2.184	1	2.251	1	6.175	0	2.875	0	2.360	0	7.087	1	2.513	1	2.237	1
1.338	4	9.769	1	9.786	1	2.133	1	2.251	1	6.002	0	2.768	0	2.360	0	6.883	1	2.468	1	2.197	1
1.406	4	9.887	1	9.904	1	2.104	1	2.250	1	5.837	0	2.708	0	2.360	0	6.692	1	2.426	1	2.158	1
1.511	4	1.002	0	1.004	0	2.075	1	2.249	1	5.653	0	2.618	0	2.360	0	6.477	1	2.378	1	2.118	1
1.601	4	1.014	0	1.016	0	2.052	1	2.248	1	5.498	0	2.537	0	2.360	0	6.293	1	2.332	1	2.075	1
1.694	4	1.025	0	1.027	0	2.032	1	2.248	1	5.359	0	2.465	0	2.360	0	6.128	1	2.290	1	2.037	1
1.789	4	1.036	0	1.037	0	2.009	1	2.248	1	5.215	0	2.398	0	2.360	0	5.963	1	2.252	1	2.003	1
1.887	4	1.046	0	1.048	0	1.989	1	2.247	1	5.084	0	2.339	0	2.360	0	5.814	1	2.217	1	1.972	1
1.988	4	1.056	0	1.057	0	1.974	1	2.247	1	4.965	0	2.278	0	2.360	0	5.673	1	2.180	1	1.939	1
2.091	4	1.066	0	1.067	0	1.972	1	2.246	1	4.881	0	2.200	0	2.360	0	5.525	1	2.142	1	1.893	1
2.194	4	1.076	0	1.077	0	1.971	1	2.245	1	4.815	0	1.865	0	2.360	0	5.689	1	1.912	1	1.899	1
2.267	4	1.086	0	1.087	0	1.970	1	2.244	1	4.753	0	1.712	0	2.360	0	5.423	1	1.803	1	1.801	1
2.341	4	1.096	0	1.097	0	1.969	1	2.243	1	4.681	0	1.558	0	2.360	0	5.349	1	1.697	1	1.498	1
2.404	4	1.106	0	1.107	0	1.968	1	2.242	1	4.617	0	1.456	0	2.360	0	5.302	1	1.608	1	1.427	1
2.467	4	1.116	0	1.117	0	1.967	1	2.241	1	4.551	0	1.389	0	2.360	0	5.236	1	1.558	1	1.379	1
2.530	4	1.126	0	1.127	0	1.966	1	2.240	1	4.485	0	1.319	0	2.360	0	5.173	1	1.497	1	1.328	1
2.593	4	1.136	0	1.137	0	1.965	1	2.239	1	4.419	0	1.245	0	2.360	0	5.105	1	1.436	1	1.295	1
2.656	4	1.146	0	1.147	0	1.964	1	2.238	1	4.353	0	1.172	0	2.360	0	5.037	1	1.375	1	1.262	1
2.719	4	1.156	0	1.157	0	1.963	1	2.237	1	4.287	0	1.103	0	2.360	0	4.969	1	1.314	1	1.229	1
2.782	4	1.166	0	1.167	0	1.962	1	2.236	1	4.221	0	1.034	0	2.360	0	4.901	1	1.253	1	1.196	1
2.845	4	1.176	0	1.177	0	1.961	1	2.235	1	4.155	0	0.965	0	2.360	0	4.833	1	1.192	1	1.163	1
2.908	4	1.186	0	1.187	0	1.960	1	2.234	1	4.089	0	0.896	0	2.360	0	4.765	1	1.131	1	1.130	1
2.971	4	1.196	0	1.197	0	1.959	1	2.233	1	4.023	0	0.827	0	2.360	0	4.697	1	1.070	1	1.097	1
3.034	4	1.206	0	1.207	0	1.958	1	2.232	1	3.957	0	0.758	0	2.360	0	4.629	1	1.009	1	1.064	1
3.097	4	1.216	0	1.217	0	1.957	1	2.231	1	3.891	0	0.689	0	2.360	0	4.561	1	0.948	1	1.031	1
3.160	4	1.226	0	1.227	0	1.956	1	2.230	1	3.825	0	0.620	0	2.360	0	4.493	1	0.887	1	0.998	1
3.223	4	1.236	0	1.237	0	1.955	1	2.229	1	3.759	0	0.551	0	2.360	0	4.425	1	0.826	1	0.965	1
3.286	4	1.246	0	1.247	0	1.954	1	2.228	1	3.693	0	0.482	0	2.360	0	4.357	1	0.765	1	0.932	1
3.349	4	1.256	0	1.257	0	1.953	1	2.227	1	3.627	0	0.413	0	2.360	0	4.289	1	0.704	1	0.899	1
3.412	4	1.266	0	1.267	0	1.952	1	2.226	1	3.561	0	0.344	0	2.360	0	4.221	1	0.643	1	0.866	1
3.475	4	1.276	0	1.277	0	1.951	1	2.225	1	3.495	0	0.275	0	2.360	0	4.153	1	0.582	1	0.833	1
3.538	4	1.286	0	1.287	0	1.950	1	2.224	1	3.429	0	0.206	0	2.360	0	4.085	1	0.521	1	0.800	1
3.601	4	1.296	0	1.297	0	1.949	1	2.223	1	3.363	0	0.137	0	2.360	0	4.017	1	0.460	1	0.767	1
3.664	4	1.306	0	1.307	0	1.948	1	2.222	1	3.297	0	0.068	0	2.360	0	3.949	1	0.399	1	0.734	1
3.727	4	1.316	0	1.317	0	1.947	1	2.221	1	3.231	0	0.000	0	2.360	0	3.881	1	0.338	1	0.701	1
3.790	4	1.326	0	1.327	0	1.946	1	2.220	1	3.165	0	0.000	0	2.360	0	3.813	1	0.277	1	0.668	1
3.853	4	1.336	0	1.337	0	1.945	1	2.219	1	3.099	0	0.000	0	2.360	0	3.745	1	0.216	1	0.635	1
3.916	4	1.346	0	1.347	0	1.944	1	2.218	1	3.033	0	0.000	0	2.360	0	3.677	1	0.155	1	0.602	1
3.979	4	1.356	0	1.357	0	1.943	1	2.217	1	2.967	0	0.000	0	2.360	0	3.609	1	0.094	1	0.569	1
4.042	4	1.366	0	1.367	0	1.942	1	2.216	1	2.901	0	0.000	0	2.360	0	3.541	1	0.033	1	0.536	1
4.105	4	1.376	0	1.377	0	1.941	1	2.215	1	2.835	0	0.000	0	2.360	0	3.473	1	0.000	1	0.503	1
4.168	4	1.386	0	1.387	0	1.940	1	2.214	1	2.769	0	0.000	0	2.360	0	3.405	1	0.000	1	0.470	1
4.231	4	1.396	0	1.397	0	1.939	1	2.213	1	2.703	0	0.000	0	2.360	0	3.337	1	0.000	1	0.437	1
4.294	4	1.406	0	1.407	0	1.938	1	2.212	1	2.637	0	0.000	0	2.360	0	3.269	1	0.000	1	0.404	1
4.357	4	1.416	0	1.417	0	1.937	1	2.211	1	2.571	0	0.000	0	2.360	0	3.201	1	0.000	1	0.371	1
4.420	4	1.426	0	1.427	0	1.936	1	2.210	1	2.505	0	0.000	0	2.360	0	3.133	1	0.000	1	0.338	1
4.483	4	1.436	0	1.437	0	1.935	1	2.209	1	2.439	0	0.000	0	2.360	0	3.065	1	0.000	1	0.305	1
4.546	4	1.446	0	1.447	0	1.934	1	2.208	1	2.373	0	0.000	0	2.360	0	2.997	1	0.000	1	0.272	1
4.609	4	1.456	0	1.457	0	1.933	1	2.207	1	2.307	0	0.000	0	2.360	0	2.929	1	0.000	1	0.239	1
4.672	4	1.466	0	1.467	0	1.932	1	2.206	1	2.241	0	0.000	0	2.360	0	2.861	1	0.000	1	0.206	1
4.735	4	1.476	0	1.477	0	1.931	1	2.205	1	2.175	0	0.000	0	2.360	0	2.793	1	0.000	1	0.173	1
4.798	4	1.486	0	1.487	0	1.930	1	2.204	1	2.109	0	0.000	0	2.360	0	2.725	1	0.000	1	0.140	1
4.861	4	1.496	0	1.497	0	1.929	1	2.203	1	2.043	0	0.000	0	2.360	0	2.657	1	0.000	1	0.107	1
4.924	4	1.506	0	1.507	0	1.928	1	2.202	1	1.977	0	0.000	0	2.360	0	2.589	1	0.000	1	0.074	1
4.987	4	1.516	0	1.517	0	1.927	1	2.201	1	1.911	0	0.000	0	2.360	0	2.521	1	0.000	1	0.041	1
5.050	4	1.526	0	1.527	0	1.926	1	2.200	1	1.845	0	0.000	0	2.360	0	2.453	1	0.000	1	0.008	1
5.113	4	1.536	0	1.537	0	1.925	1	2.199	1	1.779	0	0.000	0	2.360	0	2.385	1	0.000	1	0.000	1
5.176	4	1.546	0	1.547	0	1.924	1	2.198	1	1.713	0	0.000	0	2.360	0	2.317	1	0.000	1	0.000	1
5.239	4	1.556																			

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ENDL 175 Group Neutron Constants

92-U -237

ATOMIC WEIGHT 2.3712 ± 2				DENSITY 1.8926 ± 1 GRAMS/CC							
ENERGY MEV	MF (CM)		CROSS SECTION (BARNS)						ENERGY DEPOSIT (MEV)		
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527	2.93+0	3.729+0	7.092+0	4.561+0	1.399+0	7.283+0	2.475+0	1.663+0	1.111+0	1.823+0	1.723+0
8.834	3.059+0	3.863+0	6.602+0	4.13+0	1.371+0	7.441+0	2.494+0	1.787+0	1.156+0	1.94+0	1.835+0
1.025	3.189+0	4.031+0	6.524+0	3.786+0	1.216+0	7.402+0	2.514+0	1.876+0	1.176+0	2.018+0	1.903+0
1.178	3.303+0	4.274+0	6.298+0	3.522+0	1.030+0	7.250+0	2.536+0	1.948+0	1.182+0	2.050+0	1.930+0
1.338	3.328+0	4.437+0	6.260+0	3.430+0	8.999+0	7.089+0	2.559+0	2.025+0	1.189+0	2.023+0	1.901+0
1.511	3.326+0	4.584+0	6.255+0	3.380+0	7.236+0	6.959+0	2.584+0	2.107+0	1.196+0	1.989+0	1.864+0
1.694	3.297+0	4.730+0	6.310+0	3.371+0	6.147+0	6.836+0	2.611+0	2.194+0	1.203+0	1.942+0	1.814+0
1.887	3.223+0	4.857+0	6.455+0	3.450+0	5.267+0	6.719+0	2.638+0	2.281+0	1.209+0	1.872+0	1.743+0
2.091	3.141+0	4.923+0	6.624+0	3.570+0	4.548+0	6.689+0	2.668+0	2.339+0	1.205+0	1.822+0	1.690+0
2.315	3.243+0	4.863+0	6.838+0	3.736+0	3.955+0	6.676+0	2.698+0	2.394+0	1.198+0	1.768+0	1.633+0
2.532	2.892+0	4.765+0	7.193+0	4.043+0	3.483+0	6.664+0	2.729+0	2.449+0	1.192+0	1.694+0	1.549+0
2.741	2.710+0	4.632+0	7.678+0	4.473+0	3.066+0	6.650+0	2.763+0	2.509+0	1.184+0	1.581+0	1.448+0
3.011	2.605+0	4.603+0	7.985+0	4.752+0	2.696+0	6.635+0	2.799+0	2.543+0	1.176+0	1.524+0	1.388+0
3.267	2.571+0	4.653+0	8.294+0	4.857+0	2.397+0	6.620+0	2.836+0	2.548+0	1.168+0	1.507+0	1.366+0
3.537	2.568+0	4.727+0	8.634+0	4.899+0	2.142+0	6.604+0	2.874+0	2.553+0	1.160+0	1.503+0	1.355+0
3.811	2.568+0	4.818+0	8.994+0	4.897+0	1.933+0	6.589+0	2.912+0	2.559+0	1.153+0	1.506+0	1.352+0
4.093	2.568+0	4.916+0	9.373+0	4.898+0	1.739+0	6.572+0	2.953+0	2.560+0	1.149+0	1.527+0	1.353+0
4.386	2.631+0	4.986+0	9.769+0	4.883+0	1.563+0	6.554+0	2.997+0	2.555+0	1.146+0	1.556+0	1.391+0
4.694	2.677+0	5.090+0	10.173+0	4.871+0	1.426+0	6.537+0	3.039+0	2.534+0	1.220+0	1.586+0	1.401+0
4.991	2.726+0	5.179+0	10.594+0	4.849+0	1.297+0	6.519+0	3.101+0	2.518+0	1.274+0	1.618+0	1.422+0
5.334	2.769+0	5.246+0	11.033+0	4.824+0	1.182+0	6.505+0	3.182+0	2.510+0	1.274+0	1.631+0	1.476+0
5.658	2.833+0	5.370+0	11.484+0	4.798+0	1.082+0	6.492+0	3.265+0	2.545+0	1.303+0	2.010+0	1.789+0
6.052	2.887+0	5.452+0	11.954+0	4.764+0	9.921+0	6.482+0	3.344+0	2.185+0	1.334+0	2.413+0	2.185+0
6.467	2.913+0	5.488+0	12.434+0	4.734+0	9.160+0	6.471+0	3.416+0	2.057+0	1.365+0	2.788+0	2.563+0
6.892	3.006+0	5.557+0	12.924+0	4.692+0	8.415+0	6.461+0	3.497+0	1.942+0	1.401+0	3.051+0	2.833+0
7.327	3.087+0	5.657+0	13.424+0	4.641+0	7.731+0	6.451+0	3.583+0	1.865+0	1.438+0	3.173+0	2.969+0
7.782	3.165+0	5.748+0	13.934+0	4.591+0	7.198+0	6.441+0	3.619+0	1.864+0	1.472+0	3.229+0	3.026+0
8.257	3.249+0	5.838+0	14.454+0	4.543+0	6.688+0	6.431+0	3.676+0	1.855+0	1.493+0	3.268+0	3.064+0
8.722	3.352+0	5.901+0	14.984+0	4.508+0	6.202+0	6.421+0	3.738+0	1.837+0	1.495+0	3.321+0	3.125+0
9.167	3.451+0	5.950+0	15.524+0	4.478+0	5.763+0	6.411+0	3.797+0	1.799+0	1.477+0	3.426+0	3.234+0
9.612	3.520+0	5.994+0	16.074+0	4.453+0	5.383+0	6.401+0	3.851+0	1.759+0	1.468+0	3.515+0	3.319+0
10.065	3.594+0	6.011+0	16.634+0	4.424+0	5.003+0	6.391+0	3.907+0	1.738+0	1.459+0	3.588+0	3.388+0
10.527	3.614+0	6.004+0	17.204+0	4.402+0	4.688+0	6.381+0	3.969+0	1.724+0	1.449+0	3.603+0	3.399+0
10.989	3.596+0	6.005+0	17.784+0	4.382+0	4.397+0	6.371+0	4.032+0	1.711+0	1.441+0	3.598+0	3.391+0
11.451	3.592+0	6.009+0	18.364+0	4.362+0	4.135+0	6.361+0	4.110+0	1.696+0	1.431+0	3.595+0	3.384+0
11.913	3.597+0	6.034+0	18.944+0	4.342+0	3.876+0	6.351+0	4.199+0	1.593+0	1.421+0	3.619+0	3.599+0
12.375	3.581+0	6.034+0	19.524+0	4.322+0	3.664+0	6.341+0	4.283+0	1.468+0	1.411+0	4.184+0	3.950+0
12.837	3.564+0	6.093+0	20.104+0	4.303+0	3.437+0	6.331+0	4.373+0	1.402+0	1.401+0	4.373+0	4.145+0
13.299	3.553+0	6.015+0	20.684+0	4.285+0	3.239+0	6.321+0	4.462+0	1.397+0	1.397+0	4.379+0	4.149+0
13.761	3.544+0	6.031+0	21.264+0	4.267+0	3.102+0	6.311+0	4.538+0	1.376+0	1.356+0	4.383+0	4.151+0
14.223	3.537+0	6.042+0	21.844+0	4.249+0	3.005+0	6.301+0	4.591+0	1.367+0	1.378+0	4.386+0	4.154+0
14.685	3.532+0	6.051+0	22.424+0	4.231+0	2.940+0	6.291+0	4.627+0	1.358+0	1.368+0	4.389+0	4.155+0
15.147	3.526+0	6.062+0	23.004+0	4.213+0	2.880+0	6.281+0	4.682+0	1.352+0	1.379+0	4.391+0	4.156+0
15.609	3.529+0	6.093+0	23.584+0	4.195+0	2.794+0	6.271+0	4.756+0	1.350+0	1.378+0	4.358+0	4.122+0
16.071	3.537+0	6.150+0	24.164+0	4.178+0	2.681+0	6.261+0	4.729+0	1.350+0	1.383+0	4.302+0	4.065+0
16.533	3.545+0	6.214+0	24.744+0	4.161+0	2.576+0	6.251+0	4.802+0	1.350+0	1.390+0	4.242+0	4.004+0
16.995	3.553+0	6.291+0	25.324+0	4.144+0	2.471+0	6.241+0	4.875+0	1.350+0	1.398+0	4.180+0	3.941+0
17.457	3.566+0	6.360+0	25.904+0	4.127+0	2.374+0	6.231+0	4.951+0	1.304+0	1.605+0	4.269+0	4.024+0
17.919	3.579+0	6.401+0	26.484+0	4.110+0	2.285+0	6.221+0	5.027+0	1.184+0	1.613+0	4.603+0	4.345+0
18.381	3.592+0	6.441+0	27.064+0	4.093+0	2.196+0	6.211+0	5.104+0	1.072+0	1.629+0	4.914+0	4.643+0
18.843	3.605+0	6.473+0	27.644+0	4.076+0	2.076+0	6.201+0	5.222+0	1.050+0	1.658+0	4.955+0	4.681+0
19.305	3.618+0	6.505+0	28.224+0	4.059+0	1.956+0	6.191+0	5.340+0	1.028+0	1.687+0	5.000+0	4.720+0
19.767	3.631+0	6.537+0	28.804+0	4.042+0	1.836+0	6.181+0	5.458+0	1.006+0	1.716+0	5.045+0	4.759+0
20.229	3.644+0	6.569+0	29.384+0	4.025+0	1.716+0	6.171+0	5.576+0	0.984+0	1.744+0	5.090+0	4.798+0
20.691	3.657+0	6.601+0	29.964+0	4.008+0	1.596+0	6.161+0	5.694+0	0.962+0	1.772+0	5.135+0	4.837+0
21.153	3.670+0	6.633+0	30.544+0	3.991+0	1.476+0	6.151+0	5.812+0	0.940+0	1.800+0	5.180+0	4.876+0
21.615	3.683+0	6.665+0	31.124+0	3.974+0	1.356+0	6.141+0	5.930+0	0.918+0	1.828+0	5.225+0	4.915+0
22.077	3.696+0	6.697+0	31.704+0	3.957+0	1.236+0	6.131+0	6.048+0	0.896+0	1.856+0	5.270+0	4.954+0
 										

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ATOMIC WEIGHT 2.3805 * 2			DENSITY 1.9000 * 1 GRAMS/CC						ENERGY DEPOSITION (MEV)		
ENERGY	MFP (CM)		CROSS SECTION (BARNS)						TOTAL	LOCAL	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	MU-BAR	REMAINDER	GAM-PROD.		
1.007-9	1.350+0	1.352+0	1.530+1	7.084+0	8.212+0			2.734+1	2.577+0	2.775-5	
5.227-9	1.780+0	1.783+0	1.169+1	7.640+0	4.048+0			1.348+1	1.552+0	1.791-5	
2.091-8	1.960+0	1.965+0	1.061+1	7.935+0	2.677+0			8.913+0	1.211+0	1.305-5	
3.267-8	2.052+0	2.056+0	1.014+1	7.948+0	2.191+0			7.293+0	1.037+0	1.118-5	
4.704-8	2.150+0	2.155+0	9.677+0	7.946+0	1.732+0			5.765+0	8.590+0	1.926-6	
8.322-8	2.237+0	2.242+0	9.301+0	7.941+0	1.360+0			4.527+0	7.019+0	1.757-6	
1.307-7	2.297+0	2.303+0	9.057+0	7.935+0	1.122+0			3.735+0	5.947+0	1.642-6	
1.882-7	2.341+0	2.347+0	8.687+0	7.920+0	9.586+0			3.192+0	5.179+0	1.602-6	
2.861-7	2.373+0	2.379+0	8.768+0	7.920+0	8.480+0			2.823+0	4.642+0	1.503-6	
3.345-7	2.399+0	2.405+0	8.673+0	7.911+0	7.622+0			2.538+0	4.218+0	1.457-6	
4.234-7	2.420+0	2.426+0	8.598+0	7.901+0	6.970+0			2.320+0	3.891+0	1.423-6	
5.123-7	2.447+0	2.453+0	8.530+0	7.883+0	6.206+0			2.066+0	3.503+0	1.382-6	
7.527-7	2.476+0	2.482+0	8.404+0	7.846+0	5.573+0			1.855+0	3.183+0	1.349-6	
1.176-6	2.501+0	2.507+0	8.320+0	7.804+0	5.154+0			1.716+0	2.974+0	1.296-6	
1.511-6	2.521+0	2.528+0	8.252+0	7.754+0	4.985+0			1.660+0	2.900+0	1.245-6	
2.091-6	2.515+0	2.522+0	8.271+0	7.686+0	5.847+0			1.947+0	3.393+0	1.384+6	
2.741-6	2.506+0	2.513+0	8.302+0	7.606+0	6.954+0			2.315+0	4.021+0	1.617+6	
3.533-6	2.456+0	2.462+0	8.470+0	7.498+0	9.723+0			3.237+0	5.510+0	1.644+6	
4.704-6	2.202+0	2.207+0	9.948+0	6.933+0	2.514+0			8.370+0	1.277+0	1.519+5	
5.658-6	2.828+0	2.829+0	7.356+0	4.200+0	6.936+0			2.309+0	3.526+0	5.498+5	
6.737-6	2.329+0	2.331+0	8.932+0	1.084+0	7.046+0			2.346+0	3.788+0	4.618+5	
6.322-6	1.846+0	1.850+0	1.127+1	1.037+0	9.036+0			3.008+0	3.847+0	4.922+6	
9.620-6	1.951+0	1.966+0	1.061+1	9.714+0	8.932+0			2.974+0	4.042+0	1.595+6	
1.101-5	2.259+0	2.265+0	9.211+0	8.874+0	3.370+0			1.122+0	1.756+0	2.424+6	
1.307-5	2.505+0	2.512+0	8.305+0	7.979+0	3.261+0			1.086+0	1.885+0	1.285+6	
1.468-5	2.699+0	2.706+0	7.710+0	7.310+0	3.994+0			1.330+0	2.487+0	1.588+6	
1.581-5	2.867+0	2.875+0	7.256+0	6.603+0	6.527+0			2.173+0	4.318+0	1.628+6	
1.758-5	3.037+0	3.043+0	6.852+0	5.478+0	1.373+0			4.571+0	9.629+0	1.413+6	
1.882-5	3.788+0	3.790+0	5.492+0	9.751+0	4.517+0			1.504+0	3.948+0	5.937+5	
2.075-5	2.617+0	2.619+0	7.949+0	2.119+0	5.830+0			1.941+0	3.521+0	5.324+5	
2.277-5	1.486+0	1.490+0	1.400+0	1.263+0	1.370+0			4.560+0	4.696+0	7.511+6	
2.417-5	1.720+0	1.725+0	1.209+0	1.143+0	1.251+0			2.194+0	2.616+0	4.362+6	
2.561-5	1.947+0	1.952+0	1.069+0	1.021+0	4.738+0			1.577+0	2.128+0	1.665+6	
2.710-5	2.222+0	2.228+0	9.352+0	9.960+0	4.026+0			1.341+0	2.065+0	3.641+6	
2.862-5	2.459+0	2.466+0	8.459+0	7.399+0	4.601+0			1.532+0	2.611+0	4.514+6	
2.940-5	2.753+0	2.760+0	7.558+0	7.012+0	5.459+0			1.817+0	3.467+0	1.614+6	
3.098-5	3.462+0	3.470+0	6.009+0	4.987+0	1.023+0			3.404+0	8.167+0	1.451+5	
3.345-5	2.040+0	2.041+0	1.020+0	2.499+0	7.700+0			2.563+0	1.362+0	0.567+5	
3.601-5	1.627+0	1.630+0	1.279+0	3.700+0	5.783+0			1.925+0	2.171+0	4.008+5	
3.866-5	9.116+0	8.139+0	2.563+0	2.355+0	2.080+0			6.368+0	3.896+0	1.768+5	
4.048-5	1.196+0	1.199+0	1.740+0	1.663+0	7.663+0			2.551+0	2.114+0	4.470+6	
4.234-5	1.280+0	1.283+0	1.626+0	1.578+0	4.833+0			1.609+0	1.427+0	1.352+6	
4.329-5	1.360+0	1.364+0	1.530+0	1.490+0	4.014+0			1.336+0	1.260+0	1.890+6	
4.619-5	1.464+0	1.468+0	1.421+0	1.400+0	2.078+0			6.917+0	7.018+0	1.822+6	
4.717-5	1.540+0	1.544+0	1.351+0	1.332+0	1.927+0			6.415+0	6.846+0	1.818+6	
4.918-5	1.654+0	1.658+0	1.258+0	1.239+0	1.913+0			5.365+0	7.299+0	1.958+6	
5.123-5	1.801+0	1.805+0	1.155+0	1.144+0	2.134+0			3.774+0	4.709+0	1.435+6	
5.332-5	2.007+0	2.012+0	1.037+0	1.023+0	1.421+0			4.731+0	6.586+0	2.917+6	
5.654-5	2.214+0	2.220+0	9.597+0	9.239+0	1.582+0			5.267+0	8.091+0	1.891+6	
5.763-5	2.466+0	2.472+0	8.438+0	8.218+0	2.202+0			7.330+0	1.252+0	1.374+6	
6.097-5	3.044+0	3.052+0	6.836+0	6.324+0	5.116+0			1.703+0	3.582+0	1.895+5	
6.325-5	8.192+0	8.201+0	2.540+0	1.045+0	1.495+0			4.975+0	1.825+0	6.886+5	
6.557-5	1.612+0	1.614+0	2.291+0	2.839+0	6.088+0			2.020+0	2.257+0	5.549+5	
6.674-5	8.795+0	8.817+0	2.366+0	2.150+0	2.134+0			7.166+0	4.369+0	1.435+5	
7.034-5	1.339+0	1.343+0	1.553+0	1.524+0	2.984+0			9.934+0	1.920+0	2.933+6	
7.155-5	1.561+0	1.565+0	1.333+0	1.309+0	2.443+0			8.132+0	8.796+0	2.886+6	
7.527-5	1.984+0	1.990+0	1.048+0	1.036+0	1.209+0			4.024+0	5.534+0	2.110+6	
7.780-5	2.345+0	2.352+0	8.872+0	8.704+0	1.682+0			5.599+0	9.099+0	3.108+6	
7.906-5	4.183+0	4.186+0	4.971+0	1.225+0	3.748+0			1.248+0	3.618+0	0.371+5	
8.167-5	1.789+0	1.793+0	1.163+0	1.119+0	4.387+0			1.460+0	1.810+0	5.760+5	
8.431-5	2.165+0	2.171+0	9.608+0	9.495+0	1.123+0			3.399+0	5.611+0	2.325+6	
8.834-5	2.100+0	2.105+0	9.905+0	8.114+0	1.791+0			5.961+0	8.679+0	2.605+5	

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ATOMIC WEIGHT 2.3805 ± 2				DENSITY 1.9000 ± 1 GRAMS/CC						
ENERGY	MFP (CM)	CROSS SECTION (BARNs)						ENERGY DEPOSITIVE (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.100-5	2.814+0	2.822+0	7.392+0	7.014+0	3.795-1		1.260-0	2.458+0	9.116-6	
9.386-5	3.463+0	3.473+0	6.007+0	5.733+0	2.741-1		9.124-1	2.190+0	7.457-6	
9.668-5	4.465+0	4.476+0	4.660+0	4.059+0	5.912-1		1.958+0	6.090+0	1.959-5	
9.811-5	1.649-1	1.652-1	1.261+0	8.656+0	3.959+1		1.318+2	1.506+0	4.874-5	
1.025-4	6.711-2	6.726-2	3.100+2	2.342+2	7.575+1		2.522+2	2.1173+0	3.682+5	
1.099-4	1.555-1	1.558-1	1.338+2	7.500+0	5.876+1		1.956+2	2.109+0	7.569+5	
1.176-4	1.062+0	1.065+0	1.959+1	1.845+0	1.129+0		3.757+0	2.766+0	1.078-5	
1.256-4	1.532+0	1.536+0	1.358+1	1.343+1	1.478-1		4.922-1	5.225+2	3.050-6	
1.339-4	1.796+0	1.801+0	1.159+1	1.150+1	8.129+2		2.706+1	3.368+2	2.461-6	
1.406-4	1.492+0	1.495+0	1.394+1	1.107+1	2.878+0		9.580+0	9.906+0	4.155-5	
1.5-1-4	2.212+0	2.218+0	9.406+0	9.112+0	2.941-1		9.791-1	1.501-1	7.694-6	
1.601-4	1.124+0	1.126+0	1.951+1	9.554+0	8.952+0		2.980+1	2.322+0	1.053-5	
1.694-4	2.875+0	2.883+0	7.236+0	7.026+0	2.106-1		7.011-1	1.397+1	6.275-5	
1.789-4	2.653+0	2.659+0	7.841+0	5.931+0	1.890+0		6.292+0	1.157+0	5.658-5	
1.897-4	5.526+0	5.540+0	3.698+2	3.257+2	4.415+1		1.470+2	5.730+1	3.013-5	
1.988-4	1.931-1	1.935-1	1.077+2	7.750+0	3.024+1		1.007+2	1.347+0	7.399+5	
2.091-4	7.508+0	7.524+0	2.771+1	2.109+1	6.619+0		2.204+1	1.147+0	7.366+5	
2.741-4	1.190+0	1.193+0	1.748+1	1.438+1	3.102+0		1.033+1	8.517+0	6.275+5	
3.267-4	7.031+1	7.048+1	2.959+1	2.520+1	4.393+0		1.463+1	7.127+0	6.185+5	
3.611-4	1.322+0	1.325+0	1.574+1	1.254+1	3.199+0		1.085+1	9.759+0	9.687+5	
4.704-4	1.792+0	1.797+0	1.161+1	1.028+1	1.329+0		4.426+0	5.498+0	6.439+5	
4.991-4	9.100+1	9.121+1	2.286+1	1.858+1	4.284+0		1.26+1	8.995+1	1.117+4	
5.658-4	6.206+1	6.220+1	3.353+1	2.698+1	6.549+0		2.180+1	9.378+1	1.284+4	
6.042-4	1.089+0	1.091+0	1.910+1	1.500+1	4.101+0		1.365+1	1.031+0	1.482+4	
6.367-4	7.789+0	7.806+0	2.671+1	2.278+1	3.930+0		1.309+1	7.064+1	1.25+4	
7.156-4	1.466+0	1.463+0	1.419+1	1.241+1	1.781+0		5.529+0	6.023+1	1.111+4	
8.322-4	5.744+1	5.767+1	2.135+1	1.779+1	3.561+0		1.186+1	9.007+1	1.592+4	
9.177-4	5.467+1	5.481+1	3.800+1	3.444+1	3.617+0		1.206+1	4.563+1	1.055+4	
1.058-3	8.855+1	8.877+1	2.350+1	2.119+1	2.302+0		7.666+1	4.704+1	1.288+4	
1.307-3	1.164+0	1.167+0	1.787+1	1.601+1	1.863+0		6.204+1	5.006+1	1.666+4	
1.591-3	1.284+0	1.288+0	1.620+1	1.449+1	1.707+0		5.680+1	5.061+1	2.000+4	
1.882-3	1.306+0	1.310+0	1.593+1	1.435+1	1.582+0		5.698+1	4.770+1	2.226+4	
2.208-3	1.331+0	1.334+0	1.563+1	1.419+1	1.447+0		4.819+1	4.444+1	2.425+4	
2.581-3	1.355+0	1.359+0	1.535+1	1.402+1	1.333+0		4.441+1	4.172+1	2.633+4	
2.940-3	1.376+0	1.380+0	1.512+1	1.389+1	1.229+0		4.293+1	3.904+1	2.826+4	
3.345-3	1.351+0	1.394+0	1.496+1	1.384+1	1.117+0		3.722+1	3.587+1	2.960+4	
3.777-3	1.405+0	1.409+0	1.481+1	1.380+1	1.009+0		3.360+1	3.272+1	3.063+4	
4.234-3	1.424+0	1.428+0	1.461+1	1.370+1	9.097+1		3.031+1	2.992+1	3.515+4	
5.763-3	1.444+0	1.448+0	1.440+1	1.359+1	8.197+1		2.733+1	2.736+1	4.313+4	
7.527-3	1.457+0	1.461+0	1.426+1	1.353+1	7.528+1		2.511+1	2.535+1	5.388+4	
1.025-2	1.475+0	1.479+0	1.411+1	1.345+1	6.581+1		2.197+1	2.246+1	6.893+4	
1.511-2	1.495+0	1.505+0	1.391+1	1.335+1	5.639+1		1.884+1	1.954+1	7.719+4	
2.091-2	1.514+0	1.533+0	1.374+1	1.324+1	4.973+1		1.664+1	1.748+1	1.045+3	
2.646-2	1.531+0	1.557+0	1.358+1	1.313+1	4.617+1		1.547+1	1.643+1	1.241+3	
3.267-2	1.548+0	1.583+0	1.344+1	1.300+1	4.356+1		1.461+1	1.570+1	1.459+3	
3.953-2	1.567+0	1.611+0	1.329+1	1.287+1	4.057+1		1.387+1	1.484+1	1.660+3	
4.704-2	1.585+0	1.639+0	1.313+1	1.266+1	3.488+1		1.174+1	1.181+1	1.777+3	
5.761-2	1.613+0	1.693+0	1.250+1	1.231+1	2.991+1		1.105+1	1.300+3	2.032+3	
7.002-2	1.643+0	1.763+0	1.266+1	1.190+1	2.463+1		5.104+1	8.994+1	2.054+3	
8.322-2	1.681+0	1.830+0	1.238+1	1.145+1	2.159+1		7.149+1	8.411+1	2.259+3	
9.891-2	1.740+0	1.917+0	1.196+1	1.082+1	1.872+1		9.464+1	8.608+1	2.632+3	
1.307-1	1.837+0	2.076+0	1.132+1	9.946+0	1.603+1		1.216+0	7.620+2	3.324+3	
1.620-1	1.911+0	2.240+0	1.089+1	9.357+0	1.440+1		1.387+0	9.134+0	3.947+3	
2.075-1	1.966+0	2.338+0	1.058+1	8.959+0	1.348+1		1.479+0	9.249+0	4.415+3	
2.417-1	2.025+0	2.458+0	1.028+1	8.585+0	1.263+1		1.562+0	9.236+0	4.836+3	
2.710-1	2.071+0	2.553+0	1.004+1	8.304+0	1.249+1		1.615+0	9.7316+0	5.392+3	
2.940-1	2.128+0	2.651+0	9.779+0	7.993+0	1.216+1		1.664+0	9.7435+0	5.956+3	
3.345-1	2.201+0	2.766+0	8.451+0	7.627+0	1.174+1		1.707+0	9.728+0	6.697+3	
3.777-1	2.281+0	2.932+0	9.122+0	7.259+0	1.147+1		1.749+0	9.853+0	7.544+3	
4.234-1	2.371+0	3.093+0	8.776+0	6.870+0	1.140+1	1.315-4	2.417+0	9.869+0	7.153+3	
5.123-1	2.500+0	3.335+0	8.323+0	6.354+0	1.209+1	7.625-4	2.431+0	9.849+0	7.753+2	
6.325-1	2.645+0	3.663+0	7.865+0	5.847+0	1.269+1	1.984-3	2.449+0	9.880+0	7.579+2	

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ENDL 175 Group Neutron Constants

92-U -238

ATOMIC WEIGHT 2.3805 ± 2				DENSITY 1.9000 ± 1 GRAMS/CC																		
ENERGY	MFP (CM)		CROSS SECTION (BARN)										ENERGY DEPOSIT (MEV)									
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL											
7.527	1	2.766	0	872	7.51	0	5.268	0	1.315	1	7.120	3	2.458	0	2.115	0	2.660	0	3.218	1	1.777	1
8.834	1	2.688	0	4.039	7.254	0	4.855	0	1.171	1	5.812	2	2.486	0	2.251	0	2.899	0	5.752	1	3.880	1
1.025	0	2.938	0	4.102	7.082	0	4.380	0	1.214	1	3.262	2	2.509	0	2.549	0	3.058	0	1.062	0	7.961	1
1.176	0	2.972	0	4.142	7.001	0	3.955	0	1.037	1	6.795	2	2.532	0	2.874	0	3.805	0	2.021	0	1.650	0
1.338	0	2.970	0	4.049	7.005	0	3.562	0	8.639	2	2.347	1	2.557	0	3.122	0	4.838	0	6.237	0	5.631	0
1.511	0	2.949	0	3.979	7.054	0	3.416	0	7.319	2	4.043	1	2.582	0	3.160	0	5.932	0	1.043	1	9.614	0
1.691	0	2.923	0	4.036	7.117	0	3.501	0	6.107	2	4.851	1	2.610	0	3.060	0	7.090	0	2.371	1	1.145	1
1.887	0	2.895	0	4.098	7.211	0	3.527	0	5.160	2	5.378	1	2.639	0	2.995	0	8.312	0	1.349	1	1.249	1
2.091	0	2.836	0	4.190	7.336	0	3.850	0	4.334	2	5.486	1	2.670	0	2.694	0	9.316	0	1.553	1	1.252	1
2.305	0	2.773	0	4.209	7.502	0	3.944	0	3.649	2	5.500	1	2.702	0	2.930	0	1.004	1	1.330	1	1.227	1
2.530	0	2.713	0	4.239	7.670	0	4.126	0	3.129	2	5.505	1	2.734	0	2.962	0	1.075	1	1.307	1	1.201	1
2.741	0	2.671	0	4.287	7.788	0	4.239	0	2.648	2	5.515	1	2.770	0	2.971	0	1.154	1	1.294	1	1.184	1
3.011	0	2.643	0	4.387	7.782	0	4.340	0	2.226	2	5.526	1	2.809	0	2.950	0	1.207	1	1.286	1	1.173	1
3.267	0	2.632	0	4.421	7.905	0	4.400	0	1.900	2	5.536	1	2.847	0	2.932	0	1.230	1	1.287	1	1.170	1
3.533	0	2.629	0	4.562	7.914	0	4.445	0	1.596	2	5.547	1	2.888	0	2.899	0	1.253	1	1.292	1	1.170	1
3.811	0	2.644	0	4.683	7.870	0	4.439	0	1.381	2	5.558	1	2.927	0	2.862	0	1.279	1	1.307	1	1.178	1
4.069	0	2.677	0	4.820	7.772	0	4.401	0	1.216	2	5.569	1	2.970	0	2.802	0	1.363	1	1.331	1	1.195	1
4.396	0	2.730	0	4.950	7.622	0	4.322	0	1.060	2	5.582	1	3.017	0	2.731	0	1.474	1	1.366	1	1.221	1
4.704	0	2.764	0	5.078	7.473	0	4.240	0	9.147	3	5.594	1	3.051	0	2.664	0	1.788	1	1.401	1	1.247	1
4.991	0	2.850	0	5.236	7.302	0	4.152	0	7.937	3	5.605	1	3.115	0	2.575	0	1.632	1	1.433	1	1.288	1
5.353	0	2.918	0	5.317	7.129	0	4.045	0	7.036	3	5.744	1	3.174	0	2.502	0	1.635	1	1.517	1	1.341	1
5.658	0	2.909	0	5.149	7.151	0	3.889	0	6.107	3	6.108	1	3.236	0	2.645	0	1.634	1	1.618	1	1.420	1
6.042	0	2.943	0	5.193	7.065	0	3.736	0	5.373	3	7.116	1	3.299	0	2.616	0	1.635	1	1.892	1	1.672	1
6.367	0	2.993	0	5.106	6.951	0	3.604	0	4.817	3	8.331	1	3.360	0	2.509	0	1.636	1	2.225	1	1.990	1
6.737	0	3.033	0	5.123	6.866	0	3.510	0	4.221	3	9.474	1	3.429	0	2.398	0	1.637	1	2.517	1	2.291	1
7.156	0	3.171	0	5.326	6.561	0	3.330	0	3.959	3	1.031	0	3.490	0	2.226	0	1.639	1	2.743	1	2.524	1
7.548	0	3.215	0	5.402	6.472	0	3.281	0	3.808	3	1.014	0	3.545	0	2.175	0	1.640	1	2.798	1	2.582	1
7.910	0	3.259	0	5.460	6.384	0	3.216	0	3.541	3	1.020	0	3.601	0	2.145	0	1.641	1	2.846	1	2.644	1
8.322	0	3.313	0	5.527	6.279	0	3.143	0	2.980	3	1.019	0	3.664	0	2.114	0	1.643	1	2.895	1	2.684	1
8.787	0	3.370	0	5.585	6.174	0	3.072	0	2.460	3	1.015	0	3.727	0	2.084	0	1.644	1	2.918	1	2.718	1
9.177	0	3.428	0	5.666	6.070	0	3.003	0	2.232	3	1.011	0	3.792	0	2.054	0	1.645	1	2.956	1	2.751	1
9.665	0	3.462	0	5.725	6.010	0	2.980	0	2.045	3	1.008	0	3.863	0	2.021	0	1.647	1	2.979	1	2.768	1
1.012	1	3.497	0	5.782	5.950	0	2.954	0	1.894	3	1.006	0	3.930	0	1.988	0	1.648	1	3.007	1	2.787	1
1.058	1	3.536	0	5.883	5.884	0	2.921	0	1.760	3	1.004	0	3.995	0	1.957	0	1.650	1	3.038	1	2.810	1
1.101	1	3.587	0	6.018	5.801	0	2.895	0	1.616	3	1.001	0	4.065	0	1.899	0	1.651	1	3.076	1	2.841	1
1.155	1	3.619	0	6.135	5.749	0	2.895	0	1.469	3	9.839	1	4.136	0	1.868	0	1.653	1	3.054	1	2.815	1
1.199	1	3.611	0	6.162	5.762	0	2.912	0	1.351	3	9.834	1	4.205	0	1.855	0	1.655	1	3.046	1	2.805	1
1.250	1	3.588	0	6.177	5.799	0	2.946	0	1.243	3	1.013	0	4.283	0	1.839	0	1.656	1	3.108	1	2.868	1
1.307	1	3.574	0	6.203	5.822	0	2.968	0	1.139	3	1.059	0	4.359	0	1.794	0	1.658	1	3.223	1	2.983	1
1.354	1	3.559	0	6.203	5.845	0	2.977	0	1.059	3	1.107	0	4.416	0	1.750	0	1.659	1	3.345	1	3.104	1
1.366	1	3.554	0	6.227	5.853	0	2.989	0	1.004	3	1.128	0	4.459	0	1.735	0	1.660	1	3.392	1	3.159	1
1.413	1	3.544	0	6.239	5.888	0	3.027	0	9.775	4	1.148	0	4.498	0	1.711	0	1.661	1	3.432	1	3.194	1
1.441	1	3.504	0	6.238	5.938	0	3.074	0	9.546	4	1.174	0	4.538	0	1.689	0	1.662	1	3.473	1	3.237	1
1.466	1	3.441	0	6.184	6.046	0	3.155	0	9.221	4	1.208	0	4.595	0	1.683	0	1.664	1	3.498	1	3.267	1
1.519	1	3.387	0	6.159	6.133	0	3.235	0	8.775	4	1.225	0	4.672	0	1.683	0	1.669	1	3.485	1	3.277	1
1.575	1	3.357	0	6.197	6.197	0	3.311	0	8.297	4	1.208	0	4.755	0	1.677	0	1.675	1	3.406	1	3.181	1
1.633	1	3.345	0	6.296	6.220	0	3.389	0	7.810	4	1.187	0	4.840	0	1.642	0	1.680	1	3.389	1	3.134	1
1.692	1	3.328	0	6.368	6.52	0	3.459	0	7.314	4	1.182	0	4.926	0	1.604	0	1.686	1	3.327	1	3.097	1
1.752	1	3.295	0	6.357	6.313	0	3.513	0	6.810	4	1.236	0	5.014	0	1.564	0	1.692	1	3.423	1	3.195	1
1.813	1	3.273	0	6.383	6.357	0	3.568	0	6.296	4	1.284	0	5.104	0	1.505	0	1.698	1	3.525	1	3.283	1
1.875	1	3.238	0	6.389	6.425	0	3.637	0	5.519	4	1.374	0	5.241	0	1.414	0	1.707	1	3.714	1	3.468	1
2.000	1																					
RESONANCE INTEGRALS			6.013	2	3.092	2	2.786	2	2.057	0			1.147	1	9.673	2						
MAXWELLIAN AVERAGES			0.32	1	7.872	0	2.450	0									8.157	0				
I/E AVERAGES			3.435	1	1.766	1	1.592	1	1.175	1	3.663	0	6.554	0	1.526	1						
FISSION AVERAGES			7.795	0	4.858	0	7.619	2	3.188	1	2.847	0	2.542	0	7.207	0						
FISSION AVERAGES			5.879	0	3.014	1	1.010	3	1.137	0	4.700	0	1.731	0	1.660	1						

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

92-U -239

ATOMIC WEIGHT 2.3913 * 2				DENSITY 1.9086 * 1 GRAMS/CC						
ENERGY		HFP (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER	GAL-PROD.	TOTAL	LOCAL
1.307 - 3	1.767 - 1	1.767 - 1	1.177 * 2	1.200 *	6.466 *	4.109 *	2.370 * 0	8.035 * 2	6.442 *	5.855 *
3.208 - 1	3.208 - 1	3.209 - 1	6.486 *	1.200 *	3.231 *	2.055 *	1.370 * 0	4.016 * 2	5.848 *	5.315 *
2.091 - 8	4.404 - 1	4.407 - 1	4.724 *	1.200 *	2.154 *	1.370 *	2.370 * 0	2.678 * 2	5.354 *	4.866 *
3.267 - 8	5.095 - 1	5.100 - 1	4.083 *	1.200 *	1.762 *	1.121 *	2.370 * 0	2.191 * 2	5.067 *	4.605 *
4.704 - 8	5.999 - 1	6.005 - 1	3.468 *	1.200 *	1.385 *	8.816 *	0.370 * 0	1.723 * 2	4.692 *	4.264 *
8.322 - 8	7.022 - 1	7.030 - 1	2.963 *	1.200 *	1.178 *	6.950 *	0.370 * 0	1.339 * 2	4.268 *	3.879 *
1.307 - 7	7.871 - 1	7.882 - 1	2.643 *	1.200 *	8.824 *	0.560 *	0.370 * 0	1.097 * 2	3.916 *	3.558 *
1.082 - 7	8.591 - 1	8.603 - 1	2.422 *	1.200 *	7.472 *	0.476 *	0.370 * 0	9.283 * 2	3.617 *	3.287 *
2.561 - 7	9.215 - 1	9.229 - 1	2.258 *	1.200 *	6.468 *	0.408 *	0.370 * 0	8.037 * 1	3.359 *	3.052 *
3.345 - 7	9.752 - 1	9.766 - 1	2.133 *	1.200 *	5.709 *	0.362 *	0.370 * 0	7.092 * 1	3.136 *	2.850 *
4.234 - 7	1.020 * 0	1.022 * 0	2.039 *	1.200 *	5.135 *	0.259 *	0.370 * 0	6.476 * 1	2.950 *	2.681 *
5.123 - 7	1.081 * 0	1.083 * 0	1.924 *	1.200 *	4.430 *	0.211 *	0.370 * 0	5.503 * 1	2.697 *	2.451 *
7.527 - 7	1.030 * 0	1.031 * 0	2.021 *	1.200 *	4.999 *	0.259 *	0.370 * 0	6.233 * 1	2.972 *	2.706 *
1.176 - 6	3.102 - 1	3.103 - 1	6.707 *	1.200 *	3.075 *	2.432 *	0.370 * 0	4.168 * 2	6.627 *	6.083 *
1.511 - 6	1.810 - 1	1.810 - 1	1.149 * 2	1.200 *	5.613 *	4.682 *	0.370 * 0	7.784 * 2	7.428 *	6.833 *
2.091 - 6	2.000 - 1	2.001 - 1	1.040 * 2	1.200 *	5.022 *	4.180 *	0.370 * 0	6.957 * 2	7.329 *	6.741 *
2.791 - 6	2.185 - 1	2.186 - 1	9.520 *	1.200 *	4.541 *	3.779 *	0.370 * 0	6.291 * 2	7.240 *	6.659 *
3.533 - 6	2.382 - 1	2.393 - 1	8.699 *	1.200 *	4.092 *	3.407 *	0.370 * 0	5.670 * 2	7.143 *	6.570 *
4.704 - 6	2.582 - 1	2.583 - 1	8.057 *	1.200 *	3.742 *	3.116 *	0.370 * 0	5.185 * 2	7.052 *	6.487 *
5.658 - 6	2.737 - 1	2.738 - 1	7.602 *	1.200 *	3.494 *	2.908 *	0.370 * 0	4.841 * 2	6.978 *	6.418 *
6.737 - 6	2.913 - 1	2.914 - 1	7.142 *	1.200 *	3.243 *	2.700 *	0.370 * 0	4.493 * 2	6.894 *	6.341 *
8.322 - 6	3.080 - 1	3.082 - 1	6.755 *	1.200 *	3.032 *	2.523 *	0.370 * 0	4.200 * 2	6.813 *	6.267 *
9.650 - 6	3.219 - 1	3.221 - 1	6.462 *	1.200 *	2.871 *	2.351 *	0.370 * 0	3.978 * 2	6.749 *	6.208 *
1.101 - 5	3.377 - 1	3.379 - 1	6.161 *	1.200 *	2.701 *	2.254 *	0.370 * 0	3.761 * 2	6.673 *	6.138 *
1.307 - 5	3.528 - 1	3.530 - 1	5.898 *	1.200 *	2.563 *	2.134 *	0.370 * 0	3.552 * 2	6.600 *	6.071 *
1.468 - 5	3.631 - 1	3.634 - 1	5.729 *	1.200 *	2.471 *	2.059 *	0.370 * 0	3.424 * 2	6.553 *	6.028 *
1.581 - 5	3.731 - 1	3.733 - 1	5.576 *	1.200 *	2.388 *	1.985 *	0.370 * 0	3.309 * 2	6.504 *	5.983 *
1.758 - 5	3.827 - 1	3.829 - 1	5.437 *	1.200 *	2.308 *	1.929 *	0.370 * 0	3.203 * 2	6.470 *	5.952 *
1.882 - 5	3.921 - 1	3.924 - 1	5.305 *	1.200 *	2.237 *	1.869 *	0.370 * 0	3.104 * 2	6.425 *	5.908 *
2.075 - 5	4.038 - 1	4.041 - 1	5.152 *	1.200 *	2.156 *	1.797 *	0.370 * 0	2.988 * 2	6.360 *	5.850 *
2.277 - 5	4.126 - 1	4.128 - 1	5.043 *	1.200 *	2.095 *	1.748 *	0.370 * 0	2.906 * 2	6.321 *	5.815 *
2.417 - 5	4.199 - 1	4.202 - 1	4.955 *	1.200 *	2.046 *	1.709 *	0.370 * 0	2.839 * 2	6.290 *	5.786 *
2.561 - 5	4.270 - 1	4.273 - 1	4.873 *	1.200 *	2.003 *	1.669 *	0.370 * 0	2.777 * 2	6.247 *	5.747 *
2.710 - 5	4.338 - 1	4.341 - 1	4.796 *	1.200 *	1.961 *	1.634 *	0.370 * 0	2.719 * 2	6.215 *	5.717 *
2.862 - 5	4.389 - 1	4.392 - 1	4.740 *	1.200 *	1.928 *	1.611 *	0.370 * 0	2.777 * 2	6.198 *	5.701 *
2.940 - 5	4.439 - 1	4.442 - 1	4.687 *	1.200 *	1.900 *	1.587 *	0.370 * 0	2.637 * 2	6.174 *	5.680 *
3.099 - 5	4.522 - 1	4.525 - 1	4.601 *	1.200 *	1.855 *	1.546 *	0.370 * 0	2.571 * 2	6.127 *	5.636 *
3.345 - 5	4.620 - 1	4.623 - 1	4.503 *	1.200 *	1.801 *	1.502 *	0.370 * 0	2.498 * 2	6.084 *	5.597 *
3.601 - 5	4.711 - 1	4.715 - 1	4.416 *	1.200 *	1.753 *	1.462 *	0.370 * 0	2.431 * 2	6.040 *	5.556 *
3.866 - 5	4.792 - 1	4.796 - 1	4.341 *	1.200 *	1.713 *	1.428 *	0.370 * 0	2.375 * 2	6.000 *	5.519 *
4.048 - 5	4.853 - 1	4.857 - 1	4.287 *	1.200 *	1.684 *	1.403 *	0.370 * 0	2.334 * 2	5.970 *	5.491 *
4.234 - 5	4.895 - 1	4.899 - 1	4.250 *	1.200 *	1.663 *	1.387 *	0.370 * 0	2.306 * 2	5.951 *	5.474 *
4.329 - 5	4.954 - 1	4.958 - 1	4.200 *	1.200 *	1.635 *	1.364 *	0.370 * 0	2.268 * 2	5.925 *	5.451 *
4.619 - 5	5.015 - 1	5.019 - 1	4.149 *	1.200 *	1.607 *	1.342 *	0.370 * 0	2.230 * 2	5.898 *	5.425 *
4.717 - 5	5.058 - 1	5.062 - 1	4.113 *	1.200 *	1.589 *	1.324 *	0.370 * 0	2.203 * 2	5.872 *	5.401 *
4.918 - 5	5.114 - 1	5.118 - 1	4.068 *	1.200 *	1.565 *	1.303 *	0.370 * 0	2.169 * 2	5.843 *	5.374 *
5.123 - 5	5.169 - 1	5.173 - 1	4.025 *	1.200 *	1.540 *	1.285 *	0.370 * 0	2.136 * 2	5.821 *	5.355 *
5.332 - 5	5.237 - 1	5.241 - 1	3.973 *	1.200 *	1.512 *	1.261 *	0.370 * 0	2.096 * 2	5.789 *	5.325 *
5.654 - 5	5.286 - 1	5.293 - 1	3.934 *	1.200 *	1.482 *	1.242 *	0.370 * 0	2.057 * 2	5.757 *	5.295 *
5.763 - 5	5.341 - 1	5.346 - 1	3.895 *	1.200 *	1.473 *	1.223 *	0.370 * 0	2.038 * 2	5.725 *	5.266 *
6.097 - 5	5.404 - 1	5.409 - 1	3.855 *	1.200 *	1.448 *	1.202 *	0.370 * 0	2.003 * 2	5.696 *	5.238 *
6.325 - 5	5.456 - 1	5.461 - 1	3.813 *	1.200 *	1.427 *	1.187 *	0.370 * 0	1.976 * 2	5.674 *	5.218 *
6.557 - 5	5.486 - 1	5.501 - 1	3.785 *	1.200 *	1.411 *	1.174 *	0.370 * 0	1.955 * 2	5.657 *	5.203 *
6.674 - 5	5.552 - 1	5.557 - 1	3.748 *	1.200 *	1.390 *	1.157 *	0.370 * 0	1.926 * 2	5.633 *	5.181 *
7.034 - 5	5.608 - 1	5.613 - 1	3.710 *	1.200 *	1.369 *	1.141 *	0.370 * 0	1.898 * 2	5.608 *	5.159 *
7.155 - 5	5.655 - 1	5.660 - 1	3.679 *	1.200 *	1.352 *	1.127 *	0.370 * 0	1.875 * 2	5.586 *	5.139 *
7.527 - 5	5.713 - 1	5.719 - 1	3.641 *	1.200 *	1.331 *	1.110 *	0.370 * 0	1.846 * 2	5.560 *	5.114 *
7.780 - 5	5.750 - 1	5.755 - 1	3.618 *	1.200 *	1.319 *	1.100 *	0.370 * 0	1.828 * 2	5.543 *	5.099 *
7.908 - 5	5.787 - 1	5.793 - 1	3.595 *	1.200 *	1.306 *	1.089 *	0.370 * 0	1.811 * 2	5.526 *	5.083 *
8.167 - 5	5.837 - 1	5.842 - 1	3.564 *	1.200 *	1.289 *	1.075 *	0.370 * 0	1.788 * 2	5.500 *	5.060 *
8.431 - 5	5.894 - 1	5.900 - 1	3.530 *	1.200 *	1.271 *	1.059 *	0.370 * 0	1.762 * 2	5.474 *	5.032 *
8.654 - 5	5.950 - 1	5.956 - 1	3.497 *	1.200 *	1.252 *	1.044 *	0.370 * 0	1.736 * 2	5.446 *	5.010 *

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ENDL 175 Group Neutron Constants

92-U -239

ATOMIC HEIGHT 2.3913+ 2				DENSITY 1.9086+ 1 GRAMS/CC									
ENERGY		MFP (CM)		CROSS SECTION (BARNS)								ENERGY DEPOSIT (MEV)	
MEV		TOTAL TRANSPORT		TOTAL	ELASTIC	ABSORPTN	FISSION	MU-BAR REMAINDER	GAM-PROD.	TOTAL	LOCAL		
9.108-5	5.996-1	6.002-1	3.470-1	1.200-1	1.237-1	1.032-1	2.370-0	1.716-2	5.426-1	4.991-1			
9.386-5	6.077-1	6.094-1	3.424-1	1.200-1	1.223-1	1.020-1	2.370-0	1.696-2	5.400-1	4.980-1			
9.668-5	6.161-1	6.083-1	3.424-1	1.200-1	1.212-1	1.011-1	2.370-0	1.681-2	5.386-1	4.955-1			
9.911-5	6.161-1	6.167-1	3.377-1	1.200-1	1.200-1	9.773-0	2.370-0	1.647-2	5.293-1	4.855-1			
1.025-4	6.554-1	6.561-1	3.174-1	1.200-1	1.180-1	7.947-0	2.370-0	1.499-2	4.608-1	4.200-1			
1.099-4	7.031-1	7.039-1	2.959-1	1.200-1	1.155-1	6.038-0	2.370-0	1.341-2	3.808-1	3.423-1			
1.176-4	7.435-1	7.444-1	2.798-1	1.200-1	1.135-1	4.638-0	2.370-0	1.223-2	3.145-1	2.780-1			
1.256-4	7.782-1	7.792-1	2.673-1	1.200-1	1.114-1	3.599-0	2.370-0	1.132-2	2.603-1	2.256-1			
1.338-4	8.056-1	8.067-1	2.582-1	1.200-1	1.095-1	2.874-0	2.370-0	1.055-2	2.202-1	1.867-1			
1.406-4	8.323-1	8.335-1	2.500-1	1.200-1	1.073-1	2.264-0	2.370-0	1.003-2	1.942-1	1.519-1			
1.511-4	8.573-1	8.585-1	2.427-1	1.200-1	1.052-1	1.751-0	2.370-0	9.494-3	1.521-1	1.210-1			
1.601-4	8.759-1	8.771-1	2.375-1	1.200-1	1.036-1	1.396-0	2.370-0	9.111-3	1.289-1	9.862-0			
1.694-4	8.925-1	8.938-1	2.331-1	1.200-1	1.019-1	1.121-0	2.370-0	8.781-3	1.102-1	8.070-0			
1.789-4	9.076-1	9.089-1	2.292-1	1.200-1	1.002-1	9.057-0	2.370-0	8.491-3	9.516-0	6.626-0			
1.887-4	9.214-1	9.228-1	2.258-1	1.200-1	9.843-0	7.357-0	2.370-0	8.231-3	8.296-0	5.466-0			
1.988-4	9.331-1	9.345-1	2.230-1	1.200-1	9.697-0	6.007-0	2.370-0	8.018-3	7.300-0	4.519-0			
2.091-4	9.651-1	9.666-1	2.156-1	1.200-1	9.231-0	3.255-0	2.370-0	7.455-3	5.186-0	2.533-0			
2.741-4	1.001-0	1.003-0	2.078-1	1.200-1	8.637-0	1.416-0	2.370-0	6.857-3	3.680-0	1.144-0			
3.267-4	1.023-0	1.025-0	2.034-1	1.200-1	9.215-0	1.209-0	2.370-0	6.512-3	3.437-0	9.973-0			
3.811-4	1.046-0	1.048-0	1.988-1	1.200-1	7.772-0	1.112-0	2.370-0	6.159-3	3.298-0	9.380-0			
4.704-4	1.062-0	1.064-0	1.939-1	1.200-1	7.497-0	1.048-0	2.370-0	5.531-3	3.204-0	8.978-0			
4.991-4	1.073-0	1.075-0	1.939-1	1.200-1	7.289-0	1.003-0	2.370-0	5.773-3	3.136-0	8.679-0			
5.658-4	1.086-0	1.087-0	1.917-1	1.200-1	7.070-0	9.612-0	2.370-0	5.599-3	3.067-0	8.416-0			
6.047-4	1.094-0	1.095-0	1.903-1	1.200-1	6.932-0	9.360-0	2.370-0	5.489-3	3.023-0	8.258-0			
6.767-4	1.103-0	1.105-0	1.886-1	1.200-1	6.769-0	8.986-0	2.370-0	5.359-3	2.964-0	7.996-0			
7.156-4	1.120-0	1.122-0	1.858-1	1.200-1	6.494-0	8.457-0	2.370-0	5.140-3	2.871-0	7.839-0			
8.322-4	1.134-0	1.136-0	1.834-1	1.200-1	6.263-0	7.994-0	2.370-0	4.956-3	2.789-0	7.314-0			
9.177-4	1.150-0	1.152-0	1.809-1	1.200-1	6.011-0	7.583-0	2.370-0	4.757-3	2.707-0	7.042-0			
1.058-3	1.189-0	1.191-0	1.750-1	1.198-1	5.446-0	7.399-0	2.370-0	4.313-3	2.587-0	7.096-0			
1.307-3	1.234-0	1.236-0	1.686-1	1.195-1	4.839-0	7.253-0	2.370-0	3.837-3	2.456-0	7.220-0			
1.581-3	1.274-0	1.276-0	1.634-1	1.192-1	4.343-0	7.094-0	2.370-0	3.448-3	2.338-0	7.290-0			
1.882-3	1.309-0	1.312-0	1.589-1	1.189-1	3.933-0	6.919-0	2.370-0	3.126-3	2.231-0	7.310-0			
2.208-3	1.342-0	1.345-0	1.551-1	1.185-1	3.589-0	6.731-0	2.370-0	2.856-3	2.134-0	7.287-0			
2.561-3	1.379-0	1.382-0	1.509-1	1.173-1	3.297-0	6.527-0	2.370-0	2.626-3	2.059-0	7.264-0			
2.940-3	1.420-0	1.423-0	1.465-1	1.155-1	3.045-0	6.310-0	2.370-0	2.428-3	1.987-0	7.230-0			
3.345-3	1.461-0	1.464-0	1.424-1	1.136-1	2.827-0	6.077-0	2.371-0	2.256-3	1.925-0	7.165-0			
3.777-3	1.502-0	1.506-0	1.385-1	1.115-1	2.636-0	5.830-0	2.371-0	2.105-3	1.868-0	7.071-0			
4.234-3	1.587-0	1.591-0	1.311-1	1.074-1	2.318-0	5.279-0	2.371-0	1.952-3	1.755-0	6.765-0			
5.763-3	1.695-0	1.699-0	1.227-1	1.027-1	1.955-0	4.364-0	2.371-0	1.562-3	1.569-0	5.977-0			
7.527-3	1.830-0	1.834-0	1.137-1	9.632-0	1.647-0	3.125-0	2.371-0	1.325-3	1.342-0	4.624-0			
1.025-2	1.936-0	1.941-0	1.075-1	9.387-0	1.336-0	2.465-0	2.372-0	1.266-3	1.144-0	3.896-0			
1.511-2	2.084-0	1.999-0	1.049-1	9.360-0	1.102-0	2.456-0	2.373-0	1.107-3	1.036-0	3.948-0			
2.091-2	2.166-0	2.021-0	1.032-1	9.332-0	9.622-0	2.424-0	2.374-0	9.940-0	9.671-0	3.965-0			
2.646-2	2.042-0	2.047-0	1.019-1	9.302-0	8.626-0	2.391-0	2.375-0	7.852-0	9.161-0	3.964-0			
3.267-2	2.065-0	2.070-0	1.008-1	9.270-0	7.821-0	2.355-0	2.376-0	6.032-0	8.730-0	3.952-0			
3.953-2	2.086-0	2.092-0	9.972-0	9.234-0	7.152-0	2.315-0	2.377-0	4.030-0	8.556-0	3.929-0			
4.704-2	2.108-0	2.221-0	9.669-0	9.191-0	6.519-0	2.265-0	2.378-0	3.566-3	2.236-0	3.888-0			
5.761-2	2.128-0	2.296-0	9.776-0	9.145-0	5.913-0	2.201-0	2.380-0	1.796-2	1.957-0	3.736-0			
7.002-2	2.147-0	2.326-0	9.690-0	9.094-0	5.406-0	2.130-0	2.382-0	3.460-2	1.768-0	3.735-0			
8.322-2	2.166-0	2.355-0	9.626-0	9.036-0	4.966-0	2.050-0	2.384-0	5.338-2	1.555-0	3.632-0			
9.891-2	2.212-0	2.417-0	9.404-0	8.852-0	4.446-0	2.298-0	2.388-0	8.423-2	1.519-0	3.458-0			
1.307-1	2.253-0	2.569-0	9.002-0	8.437-0	3.827-0	3.325-0	2.394-0	1.492-1	1.800-0	3.088-0			
1.820-1	2.397-0	2.742-0	8.660-0	8.194-0	3.430-0	4.854-0	2.400-0	2.445-1	2.431-0	2.274-0			
2.075-1	2.474-0	2.863-0	8.408-0	7.843-0	3.195-0	4.748-0	2.405-0	4.712-1	3.102-0	1.797-0			
2.471-1	2.566-0	3.021-0	8.107-0	6.912-0	2.594-0	4.103-0	2.410-0	7.750-1	4.452-0	2.859-0			
2.710-1	2.653-0	3.155-0	7.841-0	6.290-0	2.853-0	3.955-0	2.414-0	1.070-0	5.829-0	4.420-0			
2.940-1	2.719-0	3.252-0	7.652-0	5.821-0	2.709-0	3.521-0	2.418-0	1.308-0	6.870-0	4.626-0			
3.345-1	2.737-0	3.326-0	7.502-0	5.643-0	2.549-0	2.713-0	2.425-0	1.433-0	7.265-0	4.603-0			
3.777-1	2.753-0	3.398-0	7.557-0	5.463-0	2.425-0	2.905-0	2.432-0	1.562-0	7.880-0	4.695-0			
4.234-1	2.769-0	3.443-0	7.513-0	5.192-0	2.169-0	3.197-0	2.442-0	1.755-0	8.441-0	4.721-0			
5.123-1	2.793-0	3.513-0	7.450-0	4.907-0	2.670-0	3.649-0	2.458-0	1.915-0	9.254-0	4.885-0			
6.325-1	2.921-0	3.539-0	7.375-0	4.652-0	2.833-0	4.169-0	2.477-0	2.022-0	9.982-0	1.025-1	9.501-0		

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ENDL 175 Group Neutron Constants

92-U -239

ATOMIC WEIGHT 2.3913 ± 2				DENSITY 1.9086 ± 1 GRAMS/CC								
ENERGY		MFP (CM)		CROSS SECTION (BARN)							ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
7.527	2.953	3.564	7.293	4.386	2.936	4.712	2.496	2.136	1.077	1.172	1.086	
6.834	2.893	3.595	7.192	4.099	3.051	5.291	2.517	2.259	1.160	1.333	1.237	
6.075	2.936	3.646	7.087	3.836	3.024	5.489	2.539	2.400	1.220	1.406	1.302	
5.175	2.984	3.783	6.972	3.627	2.578	5.771	2.584	2.540	1.250	1.426	1.319	
4.139	2.965	3.888	6.877	3.660	2.159	5.453	2.589	2.596	1.256	1.412	1.305	
3.511	2.916	4.016	7.061	3.701	1.721	5.433	2.617	2.644	1.251	1.400	1.292	
2.694	2.935	4.181	7.089	3.722	1.322	5.412	2.646	2.694	1.242	1.391	1.280	
1.887	2.917	4.362	7.132	3.744	1.030	5.390	2.676	2.747	1.232	1.380	1.267	
2.091	2.896	4.477	7.184	3.767	8.130	5.367	2.708	2.799	1.229	1.369	1.251	
2.305	2.871	4.481	7.240	3.794	6.494	5.342	2.742	2.854	1.228	1.357	1.234	
2.533	2.760	4.411	7.537	4.044	5.082	5.119	2.776	2.909	1.233	1.306	1.181	
2.741	2.695	4.311	8.017	4.766	2.292	5.292	2.813	2.969	1.248	1.229	1.104	
3.011	2.510	4.297	8.289	4.728	3.481	5.262	2.853	3.000	1.250	1.191	1.061	
3.267	2.487	4.359	8.332	4.780	2.879	5.233	2.894	3.000	1.239	1.186	1.049	
3.533	2.483	4.426	8.379	4.834	2.399	5.203	2.935	3.000	1.222	1.181	1.037	
3.811	2.471	4.500	8.421	4.885	2.229	5.173	2.977	2.999	1.200	1.177	1.025	
4.059	2.466	4.571	8.369	4.966	1.713	5.141	3.022	2.972	1.168	1.182	1.024	
4.296	2.513	4.634	8.278	4.819	1.442	5.106	3.071	2.934	1.135	1.191	1.028	
4.704	2.536	4.777	6.198	4.775	1.241	5.072	3.117	2.903	1.121	1.198	1.031	
4.991	2.594	4.921	6.025	4.675	1.055	5.036	3.166	2.831	1.105	1.206	1.045	
5.353	2.687	5.179	7.133	4.511	9.175	5.032	3.218	2.690	1.089	1.231	1.085	
5.658	2.859	5.529	2.790	4.256	7.947	5.242	3.271	2.431	1.078	1.325	1.197	
6.029	2.972	5.764	7.301	4.066	6.909	5.486	3.326	2.380	1.079	1.410	1.302	
6.367	3.031	5.827	6.954	3.911	6.073	5.869	3.380	2.330	1.091	1.518	1.419	
6.737	3.126	5.905	6.639	3.793	5.288	6.772	3.444	2.223	1.120	1.762	1.676	
7.156	3.182	5.983	6.537	3.646	4.621	7.042	3.522	2.182	1.132	1.900	1.785	
7.548	3.261	6.070	6.380	3.510	4.103	7.020	3.580	2.164	1.129	1.943	1.822	
7.910	3.346	6.160	6.217	3.370	3.656	6.935	3.620	2.150	1.120	1.974	1.846	
8.122	3.443	6.192	6.044	3.209	3.227	6.888	3.687	2.150	1.109	2.014	1.877	
8.381	3.528	6.191	5.897	3.053	2.874	6.908	3.753	2.150	1.096	2.081	1.935	
9.177	3.594	6.179	5.805	2.956	2.567	6.957	3.821	2.150	1.095	2.131	1.978	
9.665	3.623	6.157	5.742	2.894	2.287	6.964	3.893	2.150	1.095	2.158	2.004	
1.012	3.656	6.144	5.691	2.843	2.053	6.957	3.964	2.150	1.096	2.176	2.015	
1.058	3.651	6.127	5.639	2.852	1.856	6.951	4.033	2.150	1.098	2.172	2.008	
1.101	3.623	6.099	5.742	2.896	1.673	6.949	4.107	2.149	1.101	2.150	1.991	
1.158	3.606	6.079	5.700	2.828	1.513	7.704	4.184	2.083	1.164	2.346	2.195	
1.199	3.597	6.070	5.784	2.951	1.377	9.051	4.257	1.926	1.236	2.728	2.569	
1.250	3.575	6.062	5.810	2.977	1.244	9.755	4.339	1.864	1.267	2.916	2.750	
1.307	3.546	6.031	5.967	3.003	1.133	9.728	4.419	1.890	1.265	2.884	2.717	
1.354	3.530	6.025	5.894	3.022	1.054	9.707	4.480	1.900	1.264	2.867	2.697	
1.406	3.523	6.034	5.905	3.035	1.002	9.692	4.526	1.900	1.261	2.859	2.686	
1.433	3.517	6.040	5.915	3.047	9.646	9.677	4.568	1.900	1.258	2.851	2.676	
1.441	3.511	6.046	5.925	3.058	9.299	9.661	4.610	1.900	1.255	2.843	2.666	
1.464	3.508	6.063	5.931	3.070	8.969	9.601	4.670	1.900	1.249	2.826	2.654	
1.519	3.510	6.101	5.928	3.083	8.257	9.657	4.753	1.878	1.231	2.849	2.659	
1.575	3.537	6.222	5.883	3.098	7.704	9.086	4.842	1.698	1.260	3.221	3.009	
1.633	3.519	6.222	5.911	3.113	7.181	9.194	4.931	1.603	1.248	3.512	3.289	
1.632	3.509	6.254	5.829	3.121	6.633	9.200	5.022	1.600	1.154	3.508	3.291	
1.752	3.500	6.293	5.945	3.144	6.259	9.200	5.116	1.600	1.123	3.494	3.278	
1.813	3.490	6.331	5.861	3.160	5.661	9.200	5.210	1.600	1.144	3.483	3.255	
1.875	3.476	6.361	5.985	3.184	5.342	9.200	5.354	1.600	1.114	3.467	3.247	
2.000												
RESONANCE INTEGRALS				4.595 ± 2	1.645 ± 2	1.670 ± 2	1.180 ± 2	9.977 ± 0	2.186 ± 3			
MAXWELLIAN AVERAGES				4.405 ± 1	1.200 ± 1	1.959 ± 1	1.246 ± 1	2.370 ± 0	2.435 ± 2			
1/E AVERAGES				2.625 ± 1	9.395 ± 0	9.543 ± 0	6.742 ± 0	2.390 ± 0	5.700 ± 1	1.249 ± 2		
FISSION AVERAGES				7.537 ± 0	4.498 ± 0	1.687 ± 1	4.759 ± 1	2.734 ± 0	2.394 ± 0	1.099 ± 1		
FUSION AVERAGES				5.906 ± 0	3.037 ± 0	9.991 ± 4	9.686 ± 1	4.536 ± 0	1.899 ± 0	1.260 ± 1		

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ATOMIC WEIGHT 2.4013 ± 2		DENSITY 1.9166 ± 1 GRAMS/CC							ENERGY DEPOSIT (MEV)	
ENERGY	MF	FCM	CROSS SECTION (BARNS)							
MEV	TOTAL	TRANSPOR.	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER	GAM-PROD	TOTAL	LOCAL
1.307-9	1.681+0	1.681+0	1.238+1	8.000+0	4.376+0			3.172+1	2.150+0	2.900-5
5.227-9	2.042+0	2.046+0	1.019+1	8.000+0	2.189+0			1.587+1	3.06+0	1.762-5
2.031-8	2.190+0	2.195+0	1.099+0	8.000+0	1.499+0			1.087+1	5.534+0	1.295-5
3.267-8	2.227+0	2.230+0	9.351+0	8.000+0	1.351+0			9.750+0	8.787+0	1.186-5
4.704-8	2.207+0	2.292+0	9.099+0	8.000+0	1.099+0			7.956+0	7.342+0	9.912-6
8.322-8	2.313+0	2.319+0	8.993+0	8.000+0	9.929+0			7.198+0	6.713+0	9.068-6
1.307-7	1.995+0	2.000+0	1.043+1	8.000+0	2.426+0			1.759+1	1.415+0	1.912-5
1.862-7	1.544+0	1.545+0	1.348+1	8.000+0	5.478+0			3.971+1	2.471+0	3.343-5
2.561-7	1.093+0	1.095+0	1.903+1	8.000+0	1.103+1			7.997+1	3.584+0	4.771-5
3.345-7	7.335+1	7.342+1	2.836+1	8.000+0	2.036+1			1.476+2	4.365+0	5.915-5
4.234-7	4.952+1	4.955+1	4.201+1	8.000+0	3.401+1			2.466+2	4.922+0	6.578-5
5.123-7	4.435+1	4.437+1	4.691+1	8.000+0	3.691+1			2.821+2	5.043+0	6.555-5
7.527-7	4.644+1	4.646+1	4.480+1	8.000+0	3.680+1			2.668+2	4.994+0	6.816-5
1.176-6	4.814+1	4.817+1	4.321+1	8.000+0	3.521+1			2.553+2	4.954+0	6.792-5
1.511-6	4.967+1	4.970+1	4.188+1	8.000+0	3.388+1			2.457+2	4.919+0	6.780-5
2.091-6	5.125+1	5.128+1	4.060+1	8.000+0	3.260+1			2.353+2	4.882+0	6.775-5
2.741-6	5.258+1	5.271+1	3.950+1	8.000+0	3.150+1			2.283+2	4.848+0	6.790-5
3.533-6	5.409+1	5.412+1	3.846+1	3.000+0	3.046+1			2.209+2	4.815+0	6.821-5
4.704-6	5.545+1	5.548+1	3.752+1	8.000+0	2.952+1			2.140+2	4.784+0	6.959-5
5.658-6	5.646+1	5.650+1	3.685+1	8.000+0	2.885+1			2.091+2	4.760+0	6.905-5
6.737-6	5.759+1	5.762+1	3.613+1	8.000+0	2.813+1			2.039+2	4.734+0	6.970-5
8.322-6	5.868+1	5.872+1	3.546+1	8.000+0	2.746+1			1.991+2	4.708+0	7.044-5
9.620-6	5.945+1	5.950+1	3.499+1	8.000+0	2.689+1			1.957+2	4.690+0	7.120-5
1.101-5	6.046+1	6.050+1	3.441+1	8.000+0	2.641+1			1.915+2	4.667+0	7.217-5
1.307-5	6.129+1	6.133+1	3.395+1	8.000+0	2.595+1			1.881+2	4.647+0	7.327-5
1.468-5	6.185+1	6.191+1	3.363+1	8.000+0	2.563+1			1.856+2	4.634+0	7.410-5
1.561-5	6.248+1	6.252+1	3.330+1	8.000+0	2.530+1			1.834+2	4.619+0	7.497-5
1.758-5	6.301+1	6.305+1	3.302+1	8.000+0	2.502+1			1.814+2	4.607+0	7.591-5
1.862-5	6.350+1	6.354+1	3.277+1	8.000+0	2.477+1			1.796+2	4.596+0	7.692-5
2.075-5	6.412+1	6.416+1	3.245+1	8.000+0	2.445+1			1.773+2	4.581+0	7.816-5
2.277-5	6.464+1	6.468+1	3.219+1	8.000+0	2.419+1			1.753+2	4.569+0	7.924-5
2.417-5	6.496+1	6.500+1	3.293+1	8.000+0	2.403+1			1.742+2	4.561+0	8.018-5
2.561-5	6.527+1	6.532+1	3.187+1	8.000+0	2.387+1			1.731+2	4.554+0	8.114-5
2.710-5	6.560+1	6.565+1	3.171+1	8.000+0	2.371+1			1.719+2	4.546+0	8.213-5
2.862-5	6.595+1	6.590+1	3.159+1	8.000+0	2.357+1			1.710+2	4.540+0	8.288-5
2.940-5	6.612+1	6.616+1	3.147+1	8.000+0	2.347+1			1.701+2	4.534+0	8.365-5
3.099-5	6.657+1	6.662+1	3.125+1	8.000+0	2.325+1			1.686+2	4.524+0	8.496-5
3.345-5	6.714+1	6.718+1	3.099+1	8.000+0	2.299+1			1.657+2	4.510+0	8.657-5
3.601-5	6.760+1	6.765+1	3.077+1	8.000+0	2.277+1			1.651+2	4.500+0	8.829-5
3.866-5	6.794+1	6.798+1	3.062+1	8.000+0	2.262+1			1.640+2	4.492+0	8.978-5
4.046-5	6.821+1	6.826+1	3.050+1	8.000+0	2.250+1			1.631+2	4.485+0	9.101-5
4.234-5	6.842+1	6.847+1	3.041+1	8.000+0	2.241+1			1.624+2	4.480+0	9.195-5
4.329-5	6.871+1	6.877+1	3.028+1	8.000+0	2.228+1			1.615+2	4.474+0	9.322-5
4.615-5	6.901+1	6.906+1	3.015+1	8.000+0	2.215+1			1.606+2	4.467+0	9.450-5
4.717-5	6.924+1	6.930+1	3.035+1	8.000+0	2.205+1			1.596+2	4.461+0	9.548-5
4.918-5	6.956+1	6.961+1	2.991+1	8.000+0	2.191+1			1.588+2	4.454+0	9.681-5
5.23-5	6.997+1	6.992+1	2.978+1	8.000+0	2.178+1			1.579+2	4.447+0	9.817-5
5.332-5	7.016+1	7.021+1	2.965+1	8.000+0	2.165+1			1.570+2	4.440+0	9.995-5
5.659-5	7.039+1	7.044+1	2.956+1	8.000+0	2.156+1			1.561+2	4.434+0	1.014-4
5.763-5	7.063+1	7.068+1	2.946+1	8.000+0	2.146+1			1.556+2	4.429+0	1.029-4
6.097-5	7.093+1	7.098+1	2.933+1	8.000+0	2.133+1			1.547+2	4.422+0	1.046-4
6.325-5	7.118+1	7.124+1	2.923+1	8.000+0	2.123+1			1.539+2	4.416+0	1.063-4
6.557-5	7.137+1	7.143+1	2.915+1	8.000+0	2.115+1			1.533+2	4.411+0	1.075-4
6.874-5	7.163+1	7.169+1	2.904+1	8.000+0	2.104+1			1.526+2	4.405+0	1.090-4
7.034-5	7.181+1	7.186+1	2.894+1	8.000+0	2.094+1			1.518+2	4.399+0	1.106-4
7.156-5	7.216+1	7.222+1	2.883+1	8.000+0	2.083+1			1.510+2	4.394+0	1.122-4
7.527-5	7.242+1	7.247+1	2.873+1	8.000+0	2.073+1			1.503+2	4.387+0	1.142-4
7.780-5	7.277+1	7.282+1	2.867+1	8.000+0	2.067+1			1.495+2	4.384+0	1.156-4
7.908-5	7.272+1	7.278+1	2.851+1	8.000+0	2.061+1			1.494+2	4.380+0	1.169-4
8.167-5	7.293+1	7.298+1	2.853+1	8.000+0	2.053+1			1.488+2	4.375+0	1.187-4
8.431-5	7.319+1	7.325+1	2.843+1	8.000+0	2.043+1			1.481+2	4.369+0	1.209-4
8.934-5	7.346+1	7.352+1	2.832+1	8.000+0	2.032+1			1.473+2	4.363+0	1.232-4

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ATOMIC WEIGHT 240.134 2			DENSITY 1.9166 1 GRAMS/CC						
ENERGY MEV	WGT. (%)	WGT. (G)	CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)	
			TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER GAM-PROD	TOTAL	LOCAL
1.108	5	7.410	2.323	8.000	2.023	1	4.357	2	1.250
1.186	5	7.497	2.615	8.000	2.015	1	4.352	2	1.268
1.268	5	7.415	2.608	8.000	2.008	1	4.348	2	1.282
1.341	5	7.684	2.790	8.003	1.989	1	4.336	2	1.299
1.424	5	7.721	2.697	8.027	1.894	1	4.270	2	1.321
1.509	5	6.073	2.579	8.061	1.773	1	4.180	2	1.345
1.594	5	6.410	2.474	8.096	1.664	1	4.090	2	1.369
1.676	5	6.750	2.380	8.132	1.567	1	4.030	2	1.394
1.758	5	6.955	2.300	8.165	1.483	1	3.921	2	1.414
1.840	5	6.374	2.272	8.204	1.401	1	3.835	2	1.437
1.921	5	6.712	2.142	8.247	1.318	1	3.739	2	1.462
2.001	5	1.004	2.076	8.288	1.248	1	3.653	2	1.484
2.084	5	1.031	2.033	8.329	1.184	1	3.570	2	1.505
2.169	5	1.051	2.022	8.372	1.124	1	3.485	2	1.525
2.251	5	1.080	1.993	8.417	1.070	1	3.404	2	1.546
2.334	5	1.116	1.965	8.462	1.019	1	3.321	2	1.565
2.416	5	1.162	1.911	8.529	8.722	0	3.056	2	1.625
2.498	5	1.304	1.826	8.691	7.063	0	2.693	2	1.699
2.580	5	1.371	1.718	9.128	6.748	0	2.223	2	1.746
2.662	5	1.432	1.653	9.448	5.083	0	2.127	2	1.789
2.744	5	1.469	1.619	9.710	4.478	0	1.919	2	1.810
2.826	5	1.486	1.602	9.922	4.103	0	1.799	2	1.820
2.908	5	1.499	1.590	1.016	3.747	0	1.630	2	1.826
3.000	5	1.504	1.586	1.031	3.545	0	1.555	2	1.828
3.082	5	1.508	1.583	1.056	3.269	0	1.437	2	1.824
3.164	5	1.503	1.587	1.073	2.878	0	1.262	2	1.817
3.246	5	1.489	1.600	1.144	2.559	0	1.111	2	1.800
3.328	5	1.466	1.619	1.190	2.297	0	0.843	2	1.792
3.410	5	1.474	1.615	1.202	2.113	0	0.908	2	1.963
3.492	5	1.490	1.600	1.208	1.917	0	0.711	2	2.182
3.574	5	1.504	1.586	1.213	1.701	0	0.534	2	2.344
3.656	5	1.520	1.569	1.219	1.503	0	0.477	2	2.475
3.738	5	1.526	1.567	1.225	1.423	0	0.432	2	2.734
3.820	5	1.523	1.566	1.231	1.350	0	0.411	2	2.992
3.902	5	1.523	1.567	1.238	1.279	0	0.399	2	3.242
3.984	5	1.522	1.566	1.246	1.216	0	0.382	2	3.495
4.066	5	1.520	1.569	1.253	1.152	0	0.363	2	3.731
4.148	5	1.511	1.577	1.271	1.058	0	0.345	2	4.260
4.230	5	1.491	1.655	1.396	1.300	0	0.675	2	5.079
4.312	5	1.460	1.663	1.425	1.340	0	0.652	2	6.035
4.394	5	1.457	1.611	1.428	1.353	1	0.205	2	7.651
4.476	5	1.483	1.403	1.338	1.346	1	0.921	2	9.536
4.558	5	1.528	1.312	1.322	1.548	1	0.234	2	1.123
4.640	5	1.532	1.336	1.306	1.781	1	0.523	2	1.274
4.722	5	1.567	1.356	1.273	1.561	1	0.800	2	1.441
4.804	5	1.589	1.313	1.269	1.370	1	0.863	2	1.577
4.886	5	1.621	1.284	1.242	1.312	1	0.737	2	1.686
4.968	5	1.666	1.203	1.249	1.211	1	0.611	2	1.801
5.050	5	1.717	1.065	1.211	1.175	1	0.512	2	1.935
5.132	5	1.726	1.172	1.135	1.679	1	0.346	2	2.129
5.214	5	1.852	1.028	1.123	1.085	1	0.222	2	2.487
5.296	5	1.963	1.195	1.057	1.390	1	0.610	2	3.152
5.378	5	2.089	0.991	0.950	1.184	1	0.355	2	3.658
5.460	5	2.141	0.999	0.928	1.125	1	0.311	2	4.111
5.542	5	2.183	0.951	0.906	1.094	1	0.289	2	4.617
5.624	5	2.219	0.978	0.883	1.068	1	0.272	2	5.016
5.706	5	2.260	0.936	0.860	1.050	1	0.261	2	5.541
5.788	5	2.395	0.944	0.807	1.050	1	0.261	2	6.319
5.870	5	3.159	0.686	0.796	1.055	1	0.261	2	7.194
5.952	5	3.372	0.300	0.526	1.107	1	0.261	2	8.651
6.034	5	3.636	0.073	0.609	1.194	1	0.261	2	1.177
6.116	5	3.810	0.743	0.260	1.280	1	0.261	2	1.549

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ENERGY MEV	ATOMIC WEIGHT 2.4013+2			DENSITY 1.9166+1 GRAMS CC							ENERGY DEPOSIT (MEV)	
	HFP (CM)		TOTAL	CROSS SECTION (BARN)							TOTAL	LOCAL
	TOTAL	TRANSPORT		ELASTIC	ABSORPTION	FISSION	NU-BAR	REMAINDER	GAM-PROD			
7.527+1	2.894+0	3.923+0	7.190+0	5.687+0	1.261+1	1.261+1	1.377+0	4.586+0	2.121+1	1.850+2		
8.834+1	2.361+0	3.860+0	7.027+0	5.177+0	1.215+1	1.215+1	1.728+0	5.601+0	2.763+1	3.611+2		
1.025+2	3.001+0	3.991+0	6.933+0	4.779+0	1.140+1	1.140+1	2.957+0	2.010+0	6.600+0	1.057+0	7.373+1	
1.176+2	3.022+0	4.101+0	6.885+0	4.462+0	1.046+1	1.046+1	7.556+0	2.552+0	7.556+0	2.283+0	1.862+0	
1.339+2	3.026+0	4.218+0	6.876+0	4.269+0	9.454+0	1.235+1	2.573+0	2.389+0	8.315+0	3.055+0	3.031+0	
1.511+2	3.010+0	4.329+0	6.911+0	4.153+0	8.387+0	2.034+1	2.608+0	2.470+0	9.146+0	5.675+0	4.949+0	
1.694+2	2.929+0	4.340+0	7.103+0	4.211+0	7.258+0	3.111+1	2.637+0	2.529+0	1.005+1	8.147+0	7.348+0	
1.887+2	2.842+0	4.350+0	7.314+0	4.300+0	6.156+0	4.132+1	2.669+0	2.545+0	1.073+1	1.039+1	9.461+0	
2.091+2	2.782+0	4.435+0	7.478+0	4.429+0	5.703+0	4.429+1	2.702+0	2.560+0	1.078+1	1.068+1	9.695+0	
2.305+2	2.726+0	4.493+0	7.631+0	4.571+0	5.374+0	4.350+1	2.737+0	2.571+0	1.071+1	1.057+1	9.544+0	
2.530+2	2.673+0	4.559+0	7.782+0	4.713+0	5.047+0	4.370+1	2.772+0	2.582+0	1.066+1	1.047+1	9.400+0	
2.741+2	2.617+0	4.562+0	7.949+0	4.669+0	4.686+0	4.393+1	2.810+0	2.594+0	1.062+1	1.036+1	9.247+0	
3.011+2	2.581+0	4.602+0	8.061+0	4.969+0	4.292+0	4.418+1	2.852+0	2.607+0	1.047+1	1.033+1	9.166+0	
3.267+2	2.566+0	4.658+0	8.106+0	5.006+0	3.930+0	4.443+1	2.893+0	2.623+0	1.027+1	1.040+1	9.159+0	
3.533+2	2.559+0	4.724+0	8.129+0	5.013+0	3.492+0	4.469+1	2.938+0	2.634+0	1.009+1	1.050+1	9.184+0	
3.811+2	2.580+0	4.771+0	8.126+0	4.994+0	3.101+0	4.493+1	2.980+0	2.646+0	1.005+1	1.053+1	9.233+0	
4.069+2	2.593+0	4.842+0	8.025+0	4.912+0	2.912+0	4.494+1	3.027+0	2.625+0	1.074+1	1.083+1	9.345+0	
4.396+2	2.640+0	4.874+0	7.882+0	4.792+0	2.794+0	4.465+1	3.078+0	2.613+0	1.005+1	1.109+1	9.492+0	
4.704+2	2.683+0	4.969+0	7.753+0	4.685+0	2.682+0	4.477+1	3.126+0	2.592+0	1.013+1	1.132+1	9.628+0	
5.091+2	2.733+0	5.096+0	7.613+0	4.568+0	2.561+0	4.469+1	3.177+0	2.572+0	1.023+1	1.159+1	9.781+0	
5.353+2	2.789+0	5.179+0	7.462+0	4.445+0	2.435+0	4.464+1	3.230+0	2.554+0	1.033+1	1.195+1	1.003+1	
5.658+2	2.856+0	5.287+0	7.295+0	4.315+0	2.300+0	4.446+1	3.293+0	2.533+0	1.043+1	1.238+1	1.084+1	
6.042+2	2.919+0	5.378+0	7.127+0	4.184+0	2.173+0	4.420+1	3.356+0	2.514+0	9.315+0	1.440+1	1.264+1	
6.357+2	2.971+0	5.445+0	7.022+0	4.063+0	2.043+0	4.403+1	3.420+0	2.492+0	8.573+0	1.554+1	1.507+1	
6.715+2	3.041+0	5.494+0	6.841+0	3.920+0	1.895+0	4.381+1	3.491+0	2.472+0	1.136+1	1.901+1	1.771+1	
7.156+2	3.110+0	5.570+0	6.672+0	3.773+0	1.743+0	4.369+1	3.559+0	2.445+0	1.205+1	2.041+1	1.904+1	
7.549+2	3.193+0	5.630+0	6.516+0	3.638+0	1.602+0	4.362+1	3.622+0	2.417+0	1.203+1	2.132+1	1.995+1	
7.910+2	3.266+0	5.678+0	6.370+0	3.523+0	1.468+0	4.362+1	3.686+0	2.384+0	1.195+1	2.210+1	2.072+1	
8.322+2	3.339+0	5.707+0	6.232+0	3.353+0	1.331+0	4.362+1	3.759+0	2.356+0	1.189+1	2.259+1	2.123+1	
8.787+2	3.413+0	5.739+0	6.096+0	3.207+0	1.207+0	4.362+1	3.831+0	2.327+0	1.204+1	2.309+1	2.170+1	
9.177+2	3.476+0	5.773+0	5.982+0	3.094+0	1.082+0	4.362+1	3.903+0	2.296+0	1.191+1	2.337+1	2.188+1	
9.665+2	3.542+0	5.806+0	5.873+0	2.963+0	1.063+0	4.362+1	3.982+0	2.267+0	1.173+1	2.361+1	2.199+1	
1.012+3	3.561+0	5.826+0	5.843+0	2.957+0	1.038+0	4.362+1	4.059+0	2.237+0	1.156+1	2.353+1	2.182+1	
1.056+3	3.581+0	5.855+0	5.842+0	2.956+0	1.150+0	4.362+1	4.133+0	2.207+0	1.121+1	2.331+1	2.154+1	
1.101+3	3.545+0	5.840+0	5.869+0	2.976+0	1.090+0	4.362+1	4.213+0	2.185+0	1.109+1	2.284+1	2.115+1	
1.155+3	3.536+0	5.874+0	5.883+0	2.985+0	1.029+0	4.362+1	4.295+0	2.153+0	1.144+1	2.289+1	2.135+1	
1.195+3	3.544+0	5.947+0	5.870+0	2.935+0	9.846+0	4.362+1	4.375+0	2.125+0	1.162+1	2.371+1	2.209+1	
1.250+3	3.544+0	6.004+0	5.870+0	3.007+0	9.510+0	4.362+1	4.446+0	2.093+0	1.183+1	2.465+1	2.319+1	
1.307+3	3.538+0	6.043+0	5.881+0	3.019+0	9.164+0	4.362+1	4.511+0	2.073+0	1.203+1	2.524+1	2.448+1	
1.354+3	3.533+0	6.044+0	5.889+0	3.029+0	8.836+0	4.362+1	4.617+0	2.025+0	1.225+1	2.729+1	2.545+1	
1.386+3	3.529+0	6.044+0	5.896+0	3.035+0	8.751+0	4.362+1	4.661+0	2.020+0	1.207+1	2.807+1	2.618+1	
1.413+3	3.525+0	6.045+0	5.901+0	3.042+0	8.581+0	4.362+1	4.712+0	2.011+0	1.181+1	2.879+1	2.684+1	
1.441+3	3.522+0	6.045+0	5.907+0	3.049+0	8.409+0	4.362+1	4.759+0	2.007+0	1.157+1	2.947+1	2.747+1	
1.468+3	3.517+0	6.045+0	5.916+0	3.056+0	8.166+0	4.362+1	4.822+0	2.007+0	1.152+1	2.949+1	2.743+1	
1.519+3	3.510+0	6.062+0	5.927+0	3.066+0	7.831+0	4.362+1	4.912+0	2.007+0	1.158+1	2.920+1	2.709+1	
1.575+3	3.503+0	6.081+0	5.935+0	3.077+0	7.472+0	4.362+1	5.007+0	2.007+0	1.166+1	2.889+1	2.673+1	
1.633+3	3.495+0	6.104+0	5.952+0	3.088+0	7.101+0	4.362+1	5.109+0	2.007+0	1.177+1	2.858+1	2.637+1	
1.692+3	3.491+0	6.149+0	5.960+0	3.099+0	6.736+0	4.362+1	5.199+0	2.007+0	1.149+1	2.819+1	2.604+1	
1.752+3	3.487+0	6.197+0	5.956+0	3.110+0	6.377+0	4.362+1	5.304+0	2.007+0	1.181+1	3.017+1	2.806+1	
1.813+3	3.481+0	6.235+0	5.977+0	3.121+0	5.972+0	4.362+1	5.402+0	2.007+0	1.116+1	3.400+1	3.178+1	
1.875+3	3.471+0	6.267+0	5.994+0	3.136+0	5.389+0	4.362+1	5.550+0	2.007+0	1.119+1	3.468+1	3.236+1	
2.000+3												
RESONANCE INTEGRALS				3.398+2	1.635+2	1.762+2	1.615+0		8.494+0	1.310+3		
MAXWELLIAN AVERAGES				9.524+0	8.000+0	1.524+0				1.105+1		
1/E AVERAGES				1.941+1	6.769+0	1.007+1	9.224+2	3.802+0	4.652+0	7.485+1		
FISSION AVERAGES				7.702+2	5.389+2	6.215+2	2.399+1	2.925+0	1.950+0	7.703+0		
FUSION AVERAGES				5.697+0	3.037+0	6.709+3	9.479+1	4.650+0	1.957+0	1.236+1		

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ENDL 175 Group Neutron Constants

93-Np-237

Barns

04/12/76

ENDL 175 Group Neutron Constants

93-Np-237

ATOMIC WEIGHT 2.3700 ± 2						DENSITY 1.9500 ± 1 GRAMS/CC				
ENERGY	MFP (CM)	CROSS SECTION (BARNS)						ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	3.569-2	3.559-2	5.656-2	2.775-1	5.478-2	1.935-2	2.520-0	3.944-3	5.311-0	5.799-3
5.427-9	7.103-2	7.204-2	2.802-2	1.767-1	2.625-2	1.740-2	2.520-0	1.890-3	5.145-0	1.046-2
2.091-8	1.105-1	1.105-1	1.825-2	1.756-1	1.649-2	1.496-2	2.520-0	1.188-3	4.967-0	1.773-2
3.267-8	1.181-1	1.382-1	1.461-2	1.746-1	1.287-2	1.393-2	2.520-0	9.265-2	4.841-0	1.602-2
4.704-8	1.615-1	1.814-1	1.113-2	1.726-1	9.407-4	1.211-2	2.520-0	6.774-2	4.649-0	1.827-2
6.502-8	2.474-1	2.406-1	8.393-1	1.692-1	6.701-1	9.100-3	2.520-0	4.825-2	4.391-0	1.821-2
1.307-7	2.910-1	2.942-1	6.855-1	1.650-1	5.214-1	6.051-3	2.520-0	3.755-2	4.178-0	1.484-2
1.882-7	3.278-1	3.280-1	6.157-1	1.599-1	4.557-1	5.015-3	2.520-0	3.282-2	4.070-0	1.369-2
2.561-7	3.087-1	3.089-1	6.538-1	1.537-1	5.000-1	4.018-3	2.520-0	3.600-2	4.202-0	1.034-2
3.345-7	1.773-1	1.773-1	1.139-2	1.427-1	9.957-3	9.950-3	2.520-0	7.170-2	4.808-0	1.469-2
4.234-7	1.756-2	1.756-2	1.150-3	1.498-1	1.134-3	3.995-2	2.520-0	8.169-3	5.414-0	5.741-3
5.123-7	1.571-1	1.571-1	1.295-2	1.687-1	1.116-2	8.325-3	2.520-0	8.036-2	4.772-0	1.117-2
7.527-7	6.155-1	6.155-1	6.163-1	1.420-1	1.858-1	5.150-3	2.520-0	1.338-2	3.136-0	2.842-2
1.176-6	3.443-2	3.443-2	5.882-2	1.351-1	5.727-4	2.812-2	2.520-0	4.124-3	5.362-0	8.157-3
1.511-6	2.191-2	2.192-2	9.211-1	1.565-1	7.843-1	7.918-3	2.520-0	5.504-2	4.563-0	1.450-2
2.091-6	1.115-2	1.118-2	1.810-1	1.330-1	4.787-2	6.67-3	2.520-0	3.451-1	1.509-0	5.709-2
2.741-6	1.271-2	1.274-2	1.588-1	1.185-1	4.021-2	1.105-2	2.520-0	2.903-1	1.509-0	1.165-1
3.533-6	1.557-2	1.557-2	1.296-2	1.259-1	1.170-2	1.769-2	2.520-0	8.426-2	4.971-0	2.292-2
4.704-6	6.473-2	6.479-2	3.118-1	1.042-1	2.074-2	1.411-2	2.520-0	1.495-2	3.780-0	1.295-1
5.658-6	8.106-2	8.109-2	2.489-2	1.641-1	2.325-2	2.483-2	2.520-0	1.674-3	5.136-0	1.677-2
6.737-6	5.309-2	5.313-2	3.802-1	1.125-1	2.674-2	2.460-2	2.520-0	1.927-3	3.968-0	1.084-2
8.322-6	1.680-2	1.890-2	1.066-2	1.099-1	9.577-3	1.435-2	2.520-0	6.897-2	4.955-0	3.625-2
9.620-6	5.831-2	5.833-2	2.053-2	1.585-1	1.894-2	2.411-2	2.520-0	1.364-3	5.077-0	1.974-2
1.101-5	1.015-1	1.015-1	1.988-2	1.539-1	1.794-2	2.381-2	2.520-0	1.292-3	4.966-0	2.013-2
1.307-5	1.465-1	1.469-1	1.377-1	1.270-1	1.550-2	2.349-2	2.520-0	1.133-1	9.150-0	2.856-1
1.468-5	1.609-1	1.613-1	1.754-1	1.016-1	2.358-2	2.326-2	2.520-0	1.715-1	1.355-0	3.105-1
1.581-5	1.934-1	1.935-1	1.043-2	1.368-1	9.063-3	1.300-2	2.520-0	6.527-2	4.799-0	3.700-2
1.758-5	6.167-1	6.171-1	3.272-1	1.178-1	2.092-2	2.274-2	2.520-0	1.508-2	3.625-0	1.164-1
1.882-5	1.057-1	1.059-1	1.909-1	1.035-1	8.717-3	2.247-2	2.520-0	6.292-1	2.709-0	1.972-1
2.075-5	2.925-1	2.926-1	6.901-1	1.119-1	5.780-2	2.213-2	2.520-0	4.163-2	4.436-0	5.377-2
2.277-5	1.239-1	1.239-1	1.629-2	1.686-1	1.460-2	2.183-2	2.520-0	1.051-3	4.936-0	2.252-2
2.477-5	6.692-2	6.695-2	3.016-2	4.835-1	2.532-2	2.198-2	2.520-0	1.823-3	4.614-0	1.206-2
2.561-5	1.109-1	1.110-1	1.619-2	2.757-1	1.544-2	2.133-2	2.520-0	1.111-3	4.670-0	1.971-2
2.710-5	1.240-1	1.243-1	1.628-2	1.427-1	1.986-2	2.107-2	2.520-0	1.445-1	8.946-0	1.2167-1
2.862-5	1.566-1	1.570-1	1.269-1	1.158-1	1.284-2	2.087-2	2.520-0	9.700-0	8.295-1	2.711-1
2.940-5	1.070-1	1.070-1	1.886-2	3.081-1	1.378-2	2.066-2	2.520-0	1.136-3	4.604-0	1.842-2
3.093-5	1.079-1	1.081-1	1.870-1	1.347-1	5.212-2	2.031-2	2.520-0	3.769-1	1.718-0	1.819-1
3.345-5	4.657-1	4.662-1	4.333-1	1.397-1	2.896-1	4.069-1	2.520-0	2.115-2	5.305-0	1.572-0
3.601-5	2.357-1	2.359-1	8.561-1	1.722-1	6.605-1	2.334-2	2.520-0	4.925-2	8.398-0	4.566-0
3.866-5	2.335-1	2.336-1	8.643-1	1.721-1	6.402-1	5.204-2	2.520-0	1.886-2	1.459-0	1.008-1
4.048-5	2.483-1	2.494-1	8.095-1	1.719-1	6.237-1	1.391-2	2.520-0	4.592-2	7.226-0	2.878-0
4.234-5	2.546-1	2.547-1	7.928-1	1.718-1	6.128-1	9.189-1	2.520-0	4.471-2	6.043-0	1.730-0
4.329-5	2.599-1	2.601-1	7.764-1	1.717-1	5.984-1	6.293-1	2.520-0	4.354-2	5.642-0	1.357-0
4.619-5	2.645-1	2.647-1	7.630-1	1.715-1	5.839-1	7.550-1	2.520-0	4.259-2	5.925-0	1.657-0
4.717-5	2.689-1	2.691-1	7.569-1	1.714-1	5.743-1	1.317-2	2.520-0	4.231-2	7.182-0	2.995-0
4.918-5	2.701-1	2.703-1	7.471-1	1.713-1	5.618-1	1.400-2	2.520-0	4.147-2	7.401-0	3.139-0
5.123-5	2.783-1	2.784-1	7.225-1	1.711-1	5.490-1	2.425-1	2.520-0	3.970-2	4.751-0	5.622-1
5.332-5	2.853-1	2.855-1	7.074-1	1.709-1	5.345-1	2.000-1	2.520-0	3.863-2	4.535-0	4.736-1
5.654-5	2.899-1	2.901-1	6.962-1	1.707-1	5.235-1	2.000-1	2.520-0	3.783-2	4.623-0	4.812-1
5.763-5	2.947-1	2.949-1	6.847-1	1.706-1	5.122-1	2.000-1	2.520-0	3.702-2	4.610-0	4.892-1
6.097-5	3.005-1	3.007-1	6.717-1	1.703-1	4.993-1	2.000-1	2.520-0	3.610-2	4.595-0	4.987-1
6.325-5	3.043-1	3.049-1	6.625-1	1.702-1	4.868-1	2.712-1	2.520-0	3.545-2	4.766-0	6.856-1
6.557-5	3.088-1	3.091-1	6.535-1	1.700-1	4.822-1	1.199-2	2.520-0	3.481-2	4.756-0	5.073-1
6.774-5	3.137-1	3.140-1	6.433-1	1.698-1	4.725-1	9.575-2	2.520-0	3.409-2	4.686-0	4.243-1
7.034-5	3.179-1	3.181-1	6.346-1	1.697-1	4.637-1	1.434-2	2.520-0	3.349-2	4.398-0	3.783-1
7.155-5	3.228-1	3.230-1	6.253-1	1.695-1	4.551-1	7.716-2	2.520-0	3.282-2	4.204-0	2.068-1
7.527-5	3.283-1	3.286-1	6.147-1	1.692-1	4.442-1	1.253-2	2.520-0	3.208-2	4.317-0	3.416-1
7.760-5	3.315-1	3.317-1	6.089-1	1.691-1	4.384-1	1.440-2	2.520-0	3.167-2	4.359-0	3.963-1
7.909-5	3.353-1	3.353-1	6.025-1	1.689-1	4.326-1	9.249-2	2.520-0	3.121-2	4.204-0	2.513-1
8.167-5	3.362-1	3.366-1	5.966-1	1.687-1	4.248-1	3.010-2	2.520-0	3.081-2	4.785-0	8.450-1
8.431-5	3.443-1	3.446-1	5.861-1	1.685-1	4.154-1	2.267-1	2.520-0	3.007-2	4.560-0	6.475-1
8.634-5	3.505-1	3.508-1	5.758-1	1.682-1	4.068-1	7.867-2	2.520-0	2.935-2	4.111-0	2.289-1

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.3700 ± 2			DENSITY 1.9500 ± 1 GRAMS/CC						
ENERGY	MF (CM)		CROSS SECTION (BARNS)						ENERGY DEPOSIT (MEV)
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTION	FISSION	MU-BAR REMAINDER GAM-PROD.	TOTAL	LOCAL
9.108 - 5	3.551 - 1	3.554 - 1	5.684 - 1	1.600 - 1	3.999 - 1	4.882 - 2	2.520 - 0	2.883 - 2	4.006 - 0 1.430 - 1
9.386 - 5	3.596 - 1	3.599 - 1	5.612 - 1	1.678 - 1	3.929 - 1	4.369 - 2	2.520 - 0	2.832 - 2	3.974 - 0 1.311 - 1
9.660 - 5	3.624 - 1	3.628 - 1	5.568 - 1	1.676 - 1	3.882 - 1	4.035 - 1	2.520 - 0	2.802 - 2	4.145 - 0 3.113 - 1
9.911 - 5	3.661 - 1	3.664 - 1	5.512 - 1	1.674 - 1	3.825 - 1	3.702 - 1	2.520 - 0	2.764 - 2	4.223 - 0 4.017 - 1
1.025 - 4	3.745 - 1	3.749 - 1	5.36 - 1	1.669 - 1	3.710 - 1	9.036 - 2	2.520 - 0	2.678 - 2	4.056 - 0 2.809 - 1
1.059 - 4	3.798 - 1	3.801 - 1	5.314 - 1	1.665 - 1	3.562 - 1	8.699 - 1	2.520 - 0	2.628 - 2	6.534 - 0 2.738 - 1
1.176 - 4	3.907 - 1	3.910 - 1	5.166 - 1	1.662 - 1	3.425 - 1	7.903 - 1	2.520 - 0	2.523 - 2	6.310 - 0 2.562 - 0
1.256 - 4	4.061 - 1	4.065 - 1	4.969 - 1	1.659 - 1	3.303 - 1	7.579 - 2	2.520 - 0	2.384 - 2	3.909 - 0 2.555 - 1
1.336 - 4	4.156 - 1	4.160 - 1	4.856 - 1	1.656 - 1	3.195 - 1	6.282 - 2	2.520 - 0	2.305 - 2	3.831 - 0 2.168 - 1
1.406 - 4	4.252 - 1	4.256 - 1	4.744 - 1	1.652 - 1	3.088 - 1	5.074 - 2	2.520 - 0	2.228 - 2	3.826 - 0 2.497 - 1
1.511 - 4	4.359 - 1	4.363 - 1	4.630 - 1	1.648 - 1	2.974 - 1	8.617 - 2	2.520 - 0	2.147 - 2	3.845 - 0 3.116 - 1
1.601 - 4	4.449 - 1	4.453 - 1	4.536 - 1	1.644 - 1	2.866 - 1	6.751 - 2	2.520 - 0	2.083 - 2	3.746 - 0 2.494 - 1
1.694 - 4	4.540 - 1	4.545 - 1	4.445 - 1	1.640 - 1	2.796 - 1	8.529 - 2	2.520 - 0	2.020 - 2	3.783 - 0 3.215 - 1
1.789 - 4	4.627 - 1	4.632 - 1	4.362 - 1	1.636 - 1	2.705 - 1	2.148 - 1	2.520 - 0	1.963 - 2	4.259 - 0 6.248 - 1
1.887 - 4	4.683 - 1	4.688 - 1	4.310 - 1	1.632 - 1	2.620 - 1	5.844 - 1	2.520 - 0	1.929 - 2	5.703 - 0 2.271 - 1
1.989 - 4	4.785 - 1	4.790 - 1	4.218 - 1	1.628 - 1	2.547 - 1	4.308 - 1	2.520 - 0	1.865 - 2	5.097 - 0 1.711 - 1
2.091 - 4	4.916 - 1	4.922 - 1	4.161 - 1	1.615 - 1	2.308 - 1	2.108 - 1	2.520 - 0	1.678 - 2	4.143 - 0 8.253 - 1
2.741 - 4	5.539 - 1	5.546 - 1	3.643 - 1	1.599 - 1	2.029 - 1	1.507 - 1	2.520 - 0	1.472 - 2	3.776 - 0 6.829 - 1
3.267 - 4	5.853 - 1	5.860 - 1	3.448 - 1	1.585 - 1	1.841 - 1	2.145 - 1	2.520 - 0	1.341 - 2	4.015 - 0 1.042 - 0
3.711 - 4	6.250 - 1	6.259 - 1	3.229 - 1	1.569 - 1	1.649 - 1	1.061 - 1	2.520 - 0	1.195 - 2	3.374 - 0 5.504 - 1
4.704 - 4	6.537 - 1	6.546 - 1	3.087 - 1	1.559 - 1	1.520 - 1	8.029 - 2	2.520 - 0	1.100 - 2	3.154 - 0 4.358 - 1
4.991 - 4	6.738 - 1	6.748 - 1	2.995 - 1	1.551 - 1	1.439 - 1	5.116 - 2	2.520 - 0	1.040 - 2	2.932 - 0 2.863 - 1
5.658 - 4	6.947 - 1	6.958 - 1	2.905 - 1	1.542 - 1	1.356 - 1	6.659 - 2	2.520 - 0	9.816 - 1	2.960 - 0 3.842 - 1
6.042 - 4	7.075 - 1	7.086 - 1	2.852 - 1	1.536 - 1	1.311 - 1	5.218 - 2	2.520 - 0	9.480 - 1	2.840 - 0 3.067 - 1
6.367 - 4	7.23 - 1	7.254 - 1	2.786 - 1	1.530 - 1	1.243 - 1	1.351 - 1	2.520 - 0	9.049 - 1	3.293 - 0 8.123 - 1
7.156 - 4	7.544 - 1	7.557 - 1	2.675 - 1	1.520 - 1	1.145 - 1	1.020 - 1	2.520 - 0	8.320 - 1	3.013 - 0 6.398 - 1
8.322 - 4	7.805 - 1	7.818 - 1	2.586 - 1	1.509 - 1	1.062 - 1	1.446 - 1	2.520 - 0	7.752 - 1	3.229 - 0 9.366 - 1
9.177 - 4	8.183 - 1	8.197 - 1	2.466 - 1	1.497 - 1	9.597 - 0	9.125 - 2	2.520 - 0	6.977 - 1	2.780 - 0 6.200 - 1
1.050 - 3	8.712 - 1	8.728 - 1	2.317 - 1	1.478 - 1	8.251 - 0	1.399 - 1	2.520 - 0	6.043 - 1	3.009 - 0 1.011 - 0
1.307 - 3	8.940 - 1	8.957 - 1	2.257 - 1	1.458 - 1	7.506 - 0	8.857 - 2	2.520 - 0	5.757 - 1	2.506 - 0 6.576 - 1
1.581 - 3	9.129 - 1	9.146 - 1	2.211 - 1	1.441 - 1	7.624 - 0	7.410 - 2	2.520 - 0	5.544 - 1	2.477 - 0 6.620 - 1
1.882 - 3	9.331 - 1	9.348 - 1	2.163 - 1	1.422 - 1	7.324 - 0	8.225 - 2	2.520 - 0	5.334 - 1	2.522 - 0 6.375 - 1
2.208 - 3	9.608 - 1	9.626 - 1	2.100 - 1	1.407 - 1	6.887 - 0	4.808 - 2	2.520 - 0	4.995 - 1	2.198 - 0 3.841 - 1
2.561 - 3	9.858 - 1	9.877 - 1	2.047 - 1	1.393 - 1	6.492 - 0	4.625 - 2	2.520 - 0	4.710 - 1	2.134 - 0 3.792 - 1
2.940 - 3	1.010 - 1	1.012 - 0	1.998 - 1	1.379 - 1	6.143 - 0	4.429 - 2	2.520 - 0	4.474 - 1	2.074 - 0 3.723 - 1
3.345 - 3	1.034 - 1	1.036 - 0	1.953 - 1	1.365 - 1	5.833 - 0	4.220 - 2	2.520 - 0	4.232 - 1	2.016 - 0 3.630 - 1
3.777 - 3	1.055 - 1	1.057 - 0	1.914 - 1	1.354 - 1	5.555 - 0	3.997 - 2	2.520 - 0	4.031 - 1	1.957 - 0 3.510 - 1
4.234 - 3	1.095 - 1	1.097 - 0	1.843 - 1	1.332 - 1	5.078 - 0	3.501 - 2	2.520 - 0	3.680 - 1	1.844 - 0 3.395 - 1
5.763 - 3	1.147 - 1	1.149 - 0	1.767 - 1	1.306 - 1	4.511 - 0	2.678 - 2	2.520 - 0	3.270 - 1	1.672 - 0 2.965 - 1
7.527 - 3	1.205 - 1	1.208 - 0	1.674 - 1	1.273 - 1	4.001 - 0	1.563 - 2	2.520 - 0	2.757 - 1	1.475 - 0 1.385 - 1
1.025 - 2	1.293 - 1	1.296 - 0	1.561 - 1	1.214 - 1	3.458 - 0	1.059 - 2	2.520 - 0	1.378 - 1	1.336 - 0 1.166 - 1
1.511 - 2	1.350 - 1	1.353 - 0	1.495 - 1	1.195 - 1	2.981 - 0	1.178 - 2	2.520 - 0	1.211 - 1	1.235 - 0 1.357 - 1
2.091 - 2	1.386 - 1	1.389 - 0	1.457 - 1	1.190 - 1	2.659 - 0	1.304 - 2	2.520 - 0	1.032 - 1	1.160 - 0 1.544 - 1
2.646 - 2	1.415 - 1	1.418 - 0	1.426 - 1	1.183 - 1	2.415 - 0	1.435 - 2	2.520 - 0	8.473 - 0	1.109 - 0 1.737 - 1
3.267 - 2	1.464 - 1	1.467 - 0	1.379 - 1	1.156 - 1	2.188 - 0	1.580 - 2	2.520 - 0	1.956 - 2	6.419 - 0 1.076 - 0 1.979 - 1
3.953 - 2	1.495 - 1	1.498 - 0	1.350 - 1	1.138 - 1	1.954 - 0	1.740 - 2	2.520 - 0	1.084 - 1	4.160 - 0 1.042 - 0 2.224 - 1
4.704 - 2	1.520 - 1	1.524 - 0	1.328 - 1	1.122 - 1	1.811 - 0	1.941 - 2	2.520 - 0	2.266 - 1	2.137 - 0 1.011 - 0 2.522 - 1
5.761 - 2	1.547 - 1	1.557 - 0	1.305 - 1	1.101 - 1	1.637 - 0	2.196 - 2	2.520 - 0	3.768 - 1	1.835 - 0 9.918 - 0 2.903 - 1
7.002 - 2	1.567 - 1	1.583 - 0	1.288 - 1	1.082 - 1	1.492 - 0	2.480 - 2	2.520 - 0	5.442 - 1	1.635 - 0 9.834 - 0 3.319 - 1
8.322 - 2	1.581 - 1	1.702 - 0	1.276 - 1	1.064 - 1	1.366 - 0	2.801 - 2	2.520 - 0	7.331 - 1	1.409 - 0 3.842 - 0 3.778 - 1
9.891 - 2	1.624 - 1	1.654 - 0	1.243 - 1	1.029 - 1	1.191 - 0	3.148 - 2	2.520 - 0	9.164 - 1	1.334 - 0 9.849 - 0 4.358 - 1
1.307 - 1	1.714 - 1	1.879 - 0	1.178 - 1	9.666 - 0	9.715 - 1	3.629 - 2	2.520 - 0	1.103 - 0	1.519 - 0 1.013 - 0 5.299 - 1
1.820 - 1	1.779 - 1	1.998 - 0	1.135 - 1	9.196 - 0	8.355 - 1	4.210 - 2	2.520 - 0	1.273 - 0	1.714 - 0 1.080 - 0 6.369 - 1
2.075 - 1	1.841 - 1	2.097 - 0	1.096 - 1	8.831 - 0	7.519 - 1	4.637 - 2	2.520 - 0	1.333 - 0	2.157 - 0 1.148 - 0 7.251 - 1
2.417 - 1	1.887 - 1	2.221 - 0	1.058 - 1	8.785 - 0	6.782 - 1	5.594 - 2	2.520 - 0	1.375 - 0	2.750 - 0 1.311 - 0 9.014 - 1
2.710 - 1	1.963 - 1	2.330 - 0	1.028 - 1	8.165 - 0	6.295 - 1	7.600 - 2	2.520 - 0	1.410 - 0	3.328 - 0 1.669 - 0 1.257 - 0
2.940 - 1	2.038 - 1	2.453 - 0	9.901 - 0	7.770 - 0	5.723 - 1	1.058 - 1	2.520 - 0	1.452 - 0	3.982 - 0 2.232 - 0 1.810 - 0
3.345 - 1	2.140 - 1	2.623 - 0	9.430 - 0	7.269 - 0	5.018 - 1	1.517 - 1	2.520 - 0	1.506 - 0	4.759 - 0 3.158 - 0 2.715 - 0
3.777 - 1	2.215 - 1	2.763 - 0	9.113 - 0	6.888 - 0	4.431 - 1	2.149 - 1	2.520 - 0	1.567 - 0	5.670 - 0 4.452 - 0 3.971 - 0
4.434 - 1	2.277 - 1	2.662 - 0	8.863 - 0	6.392 - 0	3.769 - 1	4.375 - 1	2.520 - 0	1.656 - 0	7.622 - 0 8.940 - 0 8.288 - 0
5.123 - 1	2.388 - 1	3.014 - 0	8.452 - 0	5.641 - 0	2.996 - 1	7.968 - 1	2.531 - 0	1.714 - 0	1.080 - 1 1.677 - 1 1.581 - 1
6.325 - 1	2.574 - 1	3.133 - 0	8.051 - 0	5.004 - 0	2.384 - 1	1.070 - 0	2.520 - 0	1.739 - 0	1.351 - 1 2.351 - 1 2.277 - 1

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93-Np-237

04/12/76

ENDL 175 Group Neutron Constants

93-Np-237

ATOMIC WEIGHT 2.3700 ± 2				DENSITY 1.9500 ± 1 GRAMS/CC									
ENERGY	NFP (CM)		CROSS SECTION (BARNs)										ENERGY DEPOSIT (MEV)
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NJ-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
7.527-1	2.613+0	3.25+0	7.722+0	4.582+0	1.938-1	1.183+0	2.555+0	1.764+0	1.419+0	2.705+0	2.552+0		
9.934-1	2.655+0	3.291+0	7.600+0	4.285+0	1.553-1	1.370+0	2.595+0	1.790+0	1.58+0	3.178+0	3.019+0		
1.025+0	2.700+0	3.360+0	7.474+0	4.077+0	1.261-1	1.457+0	2.605+0	1.805+0	1.675+0	3.457+0	3.285+0		
1.176+0	2.713+0	3.476+0	7.439+0	4.028+0	1.039-1	1.493+0	2.628+0	1.813+0	1.715+0	3.537+0	3.360+0		
1.338+0	2.702+0	3.580+0	7.470+0	4.027+0	0.650-2	1.536+0	2.651+0	1.871+0	1.762+0	3.621+0	3.439+0		
1.511+0	2.685+0	3.689+0	7.515+0	4.027+0	7.185-2	1.586+0	2.677+0	1.830+0	1.821+0	3.718+0	3.530+0		
1.694+0	2.653+0	3.798+0	7.607+0	4.068+0	5.962-2	1.640+0	2.703+0	1.840+0	1.883+0	3.799+0	3.604+0		
1.88+0	2.618+0	3.925+0	7.709+0	4.119+0	4.996-2	1.680+0	2.731+0	1.849+0	1.929+0	3.863+0	3.664+0		
2.091+0	2.594+0	4.036+0	7.780+0	4.188+0	4.224-2	1.690+0	2.761+0	1.860+0	1.933+0	3.930+0	3.629+0		
2.305+0	2.571+0	4.069+0	7.849+0	4.263+0	3.600-2	1.679+0	2.792+0	1.871+0	1.929+0	3.774+0	3.572+0		
2.530+0	2.549+0	4.106+0	7.918+0	4.337+0	3.113-2	1.668+0	2.823+0	1.882+0	1.928+0	3.719+0	3.517+0		
2.741+0	2.529+0	4.144+0	7.982+0	4.405+0	2.690-2	1.656+0	2.857+0	1.894+0	1.928+0	3.666+0	3.462+0		
3.011+0	2.521+0	4.221+0	8.005+0	4.454+0	2.325-2	1.622+0	2.895+0	1.907+0	1.892+0	3.584+0	3.379+0		
3.267+0	2.519+0	4.315+0	8.012+0	4.501+0	2.038-2	1.570+0	2.932+0	1.920+0	1.825+0	3.472+0	3.267+0		
3.533+0	2.518+0	4.404+0	8.014+0	4.523+0	1.756-2	1.539+0	2.970+0	1.934+0	1.785+0	3.407+0	3.199+0		
3.811+0	2.520+0	4.491+0	8.009+0	4.526+0	1.600-2	1.521+0	3.008+0	1.947+0	1.765+0	3.374+0	3.162+0		
4.069+0	2.543+0	4.576+0	7.935+0	4.458+0	1.422-2	1.501+0	3.050+0	1.962+0	1.752+0	3.368+0	3.149+0		
4.396+0	2.578+0	4.639+0	7.830+0	4.359+0	1.263-2	1.480+0	3.095+0	1.978+0	1.743+0	3.373+0	3.145+0		
4.704+0	2.610+0	4.698+0	7.731+0	4.267+0	1.137-2	1.460+0	3.137+0	1.992+0	1.736+0	3.377+0	3.141+0		
4.991+0	2.654+0	4.758+0	7.605+0	4.145+0	1.023-2	1.433+0	3.193+0	2.017+0	1.731+0	3.378+0	3.131+0		
5.253+0	2.709+0	4.832+0	7.454+0	3.998+0	9.229-3	1.412+0	3.251+0	2.034+0	1.730+0	3.40+0	3.146+0		
5.698+0	2.772+0	4.931+0	7.281+0	3.857+0	8.355-3	1.471+0	3.283+0	1.944+0	1.743+0	3.626+0	3.354+0		
6.042+0	2.831+0	5.015+0	7.130+0	3.722+0	7.853-3	1.623+0	3.336+0	1.777+0	1.819+0	4.066+0	3.775+0		
6.367+0	2.885+0	5.052+0	6.995+0	3.590+0	7.609-3	1.816+0	3.388+0	1.561+0	1.930+0	4.613+0	4.303+0		
6.737+0	2.947+0	5.102+0	6.849+0	3.455+0	7.358-3	1.977+0	3.447+0	1.409+0	2.020+0	5.109+0	4.782+0		
7.156+0	3.001+0	5.143+0	6.725+0	3.338+0	7.122-3	2.123+0	3.508+0	1.256+0	2.114+0	5.560+0	5.226+0		
7.598+0	3.051+0	5.175+0	6.615+0	3.230+0	6.918-3	2.255+0	3.555+0	1.124+0	2.205+0	5.974+0	5.639+0		
7.918+0	3.089+0	5.182+0	6.534+0	3.134+0	6.727-3	2.399+0	3.622+0	1.034+0	2.274+0	6.298+0	5.959+0		
8.322+0	3.146+0	5.237+0	6.416+0	3.059+0	6.527-3	2.405+0	3.686+0	9.452-1	2.288+0	6.521+0	6.193+0		
8.787+0	3.190+0	5.247+0	6.327+0	2.987+0	6.344-3	2.444+0	3.752+0	8.898-1	2.309+0	6.731+0	6.375+0		
9.177+0	3.214+0	5.224+0	6.279+0	2.931+0	6.174-3	2.445+0	3.818+0	8.868-1	2.295+0	6.766+0	6.422+0		
9.665+0	3.229+0	5.188+0	6.250+0	2.881+0	6.002-3	2.439+0	3.889+0	9.147-1	2.281+0	6.753+0	6.430+0		
1.012+1	3.240+0	5.179+0	6.229+0	2.877+0	5.846-3	2.433+0	3.958+0	9.129+0	2.264+0	6.755+0	6.432+0		
1.058+1	3.250+0	5.187+0	6.210+0	2.873+0	5.707-3	2.428+0	4.025+0	9.040+0	2.244+0	6.755+0	6.432+0		
1.101+1	3.257+0	5.197+0	6.196+0	2.874+0	5.565-3	2.422+0	4.097+0	8.944+0	2.232+0	6.748+0	6.425+0		
1.155+1	3.263+0	5.203+0	6.186+0	2.880+0	5.431-3	2.415+0	4.168+0	8.846+0	2.174+0	6.736+0	6.414+0		
1.199+1	3.267+0	5.208+0	6.178+0	2.886+0	5.307-3	2.409+0	4.236+0	8.767+0	2.143+0	6.723+0	6.401+0		
1.250+1	3.240+0	5.158+0	6.228+0	2.893+0	5.178-3	2.403+0	4.313+0	9.270+0	2.163+0	6.695+0	6.327+0		
1.307+1	3.230+0	5.149+0	6.249+0	2.899+0	5.061-3	2.430+0	4.387+0	9.139+0	2.180+0	6.694+0	6.372+0		
1.354+1	3.238+0	5.188+0	6.233+0	2.904+0	4.976-3	2.470+0	4.444+0	8.538+0	2.201+0	6.815+0	6.488+0		
1.386+1	3.243+0	5.215+0	6.222+0	2.909+0	4.913-3	2.498+0	4.486+0	8.114+0	2.218+0	6.889+0	6.569+0		
1.413+1	3.247+0	5.233+0	6.216+0	2.911+0	4.860-3	2.514+0	4.524+0	7.869+0	2.228+0	6.944+0	6.613+0		
1.441+1	3.249+0	5.252+0	6.211+0	2.914+0	4.808-3	2.527+0	4.563+0	7.647+0	2.238+0	6.984+0	6.651+0		
1.468+1	3.253+0	5.274+0	6.204+0	2.920+0	4.734-3	2.547+0	4.619+0	7.330+0	2.254+0	7.039+0	6.705+0		
1.519+1	3.253+0	5.304+0	6.204+0	2.937+0	4.640-3	2.573+0	4.695+0	6.887+0	2.272+0	7.107+0	6.770+0		
1.575+1	3.252+0	5.338+0	6.205+0	2.938+0	4.543-3	2.602+0	4.777+0	6.410+0	2.286+0	7.178+0	6.837+0		
1.633+1	3.251+0	5.383+0	6.207+0	2.979+0	4.451-3	2.631+0	4.860+0	5.924+0	2.307+0	7.249+0	6.905+0		
1.692+1	3.249+0	5.429+0	6.214+0	3.000+0	4.361-3	2.667+0	4.945+0	5.430+0	2.324+0	7.329+0	6.982+0		
1.752+1	3.236+0	5.455+0	6.236+0	3.022+0	4.276-3	2.712+0	5.031+0	4.981+0	1.325+0	7.420+0	7.068+0		
1.813+1	3.222+0	5.474+0	6.264+0	3.044+0	4.192-3	2.758+0	5.119+0	4.570+0	1.328+0	7.506+0	7.149+0		
1.875+1	3.217+0	5.530+0	6.273+0	3.078+0	4.076-3	2.798+0	5.251+0	3.935+0	1.355+0	7.591+0	7.229+0		
2.000+1													
RESONANCE INTEGRALS			8.060+2	2.037+2	5.861+2	8.010+0		8.171+0	4.270+3				
MAXWELLIAN AVERAGES			1.641+2	1.736+1	1.467+2	1.343+2	2.520+0		1.056+3				
1/E AVERAGES			4.605+1	1.164+1	3.349+1	4.576+1	3.235+0	4.668+1	2.439+2				
FISSION AVERAGES			8.087+0	4.827+0	1.727+1	1.326+0	2.807+0	1.761+1	1.567+1				
FUSION AVERAGES			6.233+0	2.909+0	4.902+3	2.497+0	4.496+0	8.125+1	2.218+1				

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ENDL 175 Group Neutron Constants

94-Pu-238

04/12/76

ENDL 175 Group Neutron Constants

94-Pu-238

ATOMIC WEIGHT 2.3805 ± 2						DENSITY 1.9518 ± 1 GRAMS/CC				
ENERGY	HFP (CM)			CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	MU-BAR REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	1.087-2	1.087-2	1.863-3	2.336-1	1.786-3	5.332-1	2.870-0	1.369-4	1.059-1	4.945-0
5.227-9	2.250-2	2.250-2	9.002-2	2.277-1	8.520-2	2.541-1	2.870-0	6.532-3	1.045-1	4.878-0
2.091-8	3.552-2	3.552-2	5.702-2	2.194-1	5.324-2	1.587-1	2.870-0	4.081-3	1.530-1	4.808-0
3.267-8	4.559-2	4.560-2	4.442-2	2.116-1	4.108-2	1.224-1	2.870-0	3.149-3	1.020-1	4.759-0
4.704-8	6.344-2	6.345-2	3.192-2	1.998-1	2.906-2	8.642-2	2.870-0	2.228-3	1.003-1	4.677-0
8.322-8	9.429-2	9.432-2	2.148-2	1.821-1	1.900-2	5.632-2	2.870-0	1.456-3	9.732-2	4.530-0
1.307-7	1.354-1	1.354-1	1.496-1	1.845-1	1.274-2	3.761-1	2.870-0	9.761-2	9.352-1	4.344-0
1.882-7	1.858-1	1.859-1	1.090-1	1.778-1	8.861-1	1.605-0	2.870-0	6.790-2	8.910-1	4.129-0
2.551-7	2.498-1	2.499-1	8.108-1	1.715-1	6.212-1	1.815-0	2.870-0	4.760-2	8.372-1	3.668-0
3.345-7	3.249-1	3.302-1	6.138-1	1.656-1	4.356-1	1.262-1	2.870-0	3.337-2	7.722-1	3.552-0
4.234-7	4.138-1	4.142-1	4.894-1	1.608-1	3.195-1	9.177-1	2.870-0	2.444-2	7.075-1	3.240-0
5.123-7	5.550-1	5.557-1	3.649-1	1.523-1	2.068-1	5.651-1	2.870-0	1.583-2	6.102-1	2.775-0
7.527-7	9.599-1	9.615-1	2.110-1	1.259-1	8.270-1	2.322-1	2.870-0	5.337-1	4.204-1	1.901-0
1.176-6	1.658-0	1.664-0	1.221-1	1.133-1	8.512-1	3.363-2	2.870-0	5.585-1	8.908-1	4.757-1
1.511-6	1.784-0	1.788-0	1.135-1	1.044-1	8.792-1	3.606-2	2.870-0	6.812-1	1.011-1	5.487-1
2.091-6	1.123-0	1.125-0	1.803-1	9.104-0	8.640-0	2.909-1	2.870-0	6.647-1	5.620-1	2.787-0
2.741-6	1.454-0	1.454-0	1.393-2	1.074-1	1.244-1	4.108-1	2.870-0	9.568-2	1.037-1	5.096-0
3.533-6	1.880-0	1.885-0	1.077-1	1.020-1	5.507-1	2.491-2	2.870-0	4.284-1	7.062-1	3.995-1
4.704-6	1.994-0	1.999-0	1.016-1	9.961-0	1.830-1	1.380-2	2.870-0	1.463-1	3.469-1	2.348-1
5.658-6	2.047-0	2.052-0	9.896-0	9.735-0	1.460-1	1.512-2	2.870-0	1.198-1	3.589-1	2.639-1
6.737-6	2.099-0	2.105-0	9.648-0	9.439-0	1.825-1	2.631-2	2.870-0	1.550-1	5.906-1	4.711-1
8.322-6	1.979-0	1.984-0	1.024-1	9.024-0	1.003-2	2.092-2	2.870-0	9.990-0	4.238-1	3.530-0
9.620-6	2.821-1	2.822-1	7.179-1	1.027-1	5.028-1	1.124-1	2.870-0	4.561-2	3.219-1	2.705-1
1.101-5	2.020-0	2.025-0	1.003-1	9.970-0	2.820-1	3.638-2	2.870-0	2.365-1	8.131-1	6.268-1
1.307-5	2.181-0	2.187-0	9.287-0	8.914-0	2.948-1	1.880-2	2.870-0	2.332-1	5.444-1	3.497-1
1.468-5	2.257-0	2.263-0	8.973-0	8.424-0	5.231-1	2.573-2	2.870-0	4.087-1	8.472-1	4.955-1
1.581-5	2.113-0	2.118-0	9.583-0	7.549-0	1.947-1	8.658-2	2.870-0	1.513-1	2.779-1	1.581-0
1.758-5	3.248-0	3.249-0	6.235-2	5.564-1	5.444-2	2.345-1	2.870-0	4.226-3	1.172-1	6.497-0
1.882-5	3.065-1	3.089-1	6.608-1	2.278-1	4.151-1	1.790-2	2.870-0	3.222-2	8.437-1	4.679-0
2.075-5	1.626-0	1.631-0	1.245-1	1.151-1	9.005-1	4.061-2	2.870-0	7.003-1	9.971-1	5.634-1
2.277-5	1.827-0	1.832-0	1.109-1	1.087-1	2.055-1	1.058-2	2.870-0	1.607-1	2.769-1	1.648-1
2.417-5	1.889-0	1.895-0	1.072-1	1.059-1	1.188-1	6.795-3	2.870-0	9.346-1	1.770-1	1.095-1
2.561-5	1.926-0	1.932-0	1.051-1	1.043-1	7.852-2	5.026-3	2.870-0	6.214-1	1.284-1	8.258-2
2.710-5	1.946-0	1.951-0	1.041-1	1.035-1	5.656-2	4.121-3	2.870-0	5.133-1	1.021-1	6.804-2
2.862-5	1.960-0	1.965-0	1.033-1	1.029-1	4.591-2	3.731-3	2.870-0	3.641-1	9.022-2	6.237-2
2.940-5	1.973-0	1.979-0	1.026-1	1.022-1	3.906-2	3.341-3	2.870-0	3.152-1	8.022-2	5.624-2
3.099-5	1.996-0	2.002-0	1.015-1	1.011-1	3.180-2	2.997-3	2.870-0	2.587-1	7.100-2	5.104-2
3.345-5	2.025-0	2.031-0	1.000-1	9.974-0	2.569-2	2.762-3	2.870-0	2.114-1	6.431-2	4.771-2
3.601-5	2.055-0	2.060-0	9.857-0	9.832-0	2.252-2	2.683-3	2.870-0	1.872-1	6.199-2	4.702-2
3.865-5	2.081-0	2.086-0	9.734-0	9.710-0	2.139-2	2.724-3	2.870-0	1.791-1	6.288-2	4.834-2
4.048-5	2.102-0	2.108-0	9.634-0	9.610-0	2.078-2	2.780-3	2.870-0	1.749-1	6.422-2	4.985-2
4.234-5	2.119-0	2.125-0	9.557-0	9.534-0	2.050-2	2.822-3	2.870-0	1.732-1	6.537-2	5.101-2
4.320-5	2.142-0	2.148-0	9.453-0	9.429-0	2.134-2	2.933-3	2.870-0	1.802-1	6.870-2	5.360-2
4.519-5	2.166-0	2.173-0	9.348-0	9.323-0	2.222-2	3.145-3	2.870-0	1.883-1	7.409-2	5.812-2
4.717-5	2.185-0	2.191-0	9.268-0	9.241-0	2.347-2	3.321-3	2.870-0	1.989-1	7.891-2	6.180-2
4.919-5	2.211-0	2.217-0	9.161-0	9.131-0	2.653-2	3.692-3	2.870-0	2.244-1	8.904-2	6.963-2
5.124-5	2.237-0	2.243-0	9.054-0	9.018-0	3.186-2	4.308-3	2.870-0	2.686-1	1.057-1	8.219-2
5.332-5	2.266-0	2.273-0	8.937-0	8.874-0	5.629-2	6.581-3	2.870-0	4.671-1	1.684-1	1.872-1
5.654-5	2.236-0	2.242-0	8.056-0	8.757-0	2.746-1	2.536-2	2.870-0	2.229-1	6.763-1	4.838-1
5.763-5	3.736-1	3.738-1	5.421-1	1.030-1	4.048-1	3.344-2	2.870-0	3.265-2	1.564-1	1.034-1
6.097-5	2.034-0	2.040-0	9.955-0	9.938-0	1.970-2	2.042-2	2.870-0	1.616-1	4.817-1	3.543-1
6.326-5	2.917-0	2.920-0	9.146-0	9.047-0	8.656-2	2.298-2	2.870-0	7.390-1	3.094-1	2.452-1
6.557-5	2.322-0	2.328-0	8.723-0	8.600-0	1.038-2	1.913-2	2.870-0	9.123-1	4.627-1	3.789-1
6.764-5	2.581-0	2.581-0	4.766-1	9.848-0	3.086-1	6.955-2	2.870-0	2.796-2	2.965-1	2.480-1
7.034-5	9.210-1	9.222-1	2.467-1	1.233-1	1.009-1	2.249-0	2.870-0	9.149-1	1.875-1	1.575-1
7.155-5	2.121-0	2.127-0	9.548-0	9.315-0	1.964-1	3.664-2	2.870-0	1.729-1	8.081-1	6.629-1
7.527-5	2.473-0	2.480-0	9.189-0	9.786-0	1.787-1	2.509-2	2.870-0	2.513-1	6.759-1	5.294-1
7.780-5	2.693-0	2.700-0	7.521-0	7.775-0	3.060-1	3.990-2	2.870-0	2.568-1	1.187-1	9.166-1
7.908-5	2.917-0	2.920-0	6.942-0	5.623-0	1.170-1	1.503-1	2.870-0	9.803-1	4.867-1	3.741-0
8.167-5	5.027-2	5.032-2	4.028-1	1.394-1	2.337-1	2.974-1	2.870-0	1.957-1	3.659-1	1.276-1
8.431-5	1.312-0	1.315-0	1.544-1	1.409-1	1.196-1	1.536-1	2.870-0	1.002-1	2.231-1	1.718-0
8.834-5	1.782-0	1.787-0	1.136-1	1.119-1	1.500-1	2.053-2	2.870-0	1.267-1	4.020-1	3.136-1

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.3805 + 2		DENSITY 1.5518 + 4 GRAMS/CC					
ENERGY	MFP (CM)	CROSS SECTION (BARN)					
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER GAM-PROD.
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER GAM-PROD.
9.10E-5	1.901+0	1.906+0	1.085+1	1.055+1	9.16E-2	1.339+2	2.870+0
9.38E-5	2.029+0	2.030+0	9.98+0	9.900+0	9.27E-2	1.129+2	2.870+0
9.66E-5	2.134+0	2.116+0	9.488+0	9.406+0	9.127+2	1.147+2	2.870+0
9.91E-5	2.293+0	2.300+0	8.831+0	8.735+0	8.203+2	1.361+2	2.870+0
1.025+0	1.053+0	1.064+0	1.905+1	1.823+0	9.12E+0	2.303+0	2.870+0
1.099+0	2.652+0	2.654+0	7.637+1	1.871+1	4.853+1	9.134+0	2.870+0
1.17E+0	7.303+2	7.313+2	2.773+2	1.260+2	1.313+2	2.000+1	2.870+0
1.29E+0	1.389+0	1.393+0	1.458+1	1.430+1	2.34E+0	4.895+2	2.870+0
1.33E+0	1.712+0	1.716+0	1.183+1	1.174+1	7.35E+0	1.77E+0	2.870+0
1.40E+0	6.16E+0	6.17E+0	3.283+1	1.16E+1	1.277+1	7.30E+0	2.870+0
1.511+0	6.644+0	6.654+0	3.04E+1	1.604+1	9.214+0	5.22E+0	2.870+0
1.601+0	2.919+0	2.926+0	6.93E+0	6.399+0	5.195+0	2.081+2	2.870+0
1.694+0	1.120+0	1.122+0	1.808+1	2.223+2	5.840+0	5.92E+2	2.870+0
1.789+0	2.287+0	2.290+0	8.855+1	4.153+1	3.199+1	1.503+1	2.870+0
1.887+0	1.652+0	1.655+0	1.22E+2	6.533+1	3.45E+0	2.25E+0	2.870+0
1.988+0	3.312+0	3.319+0	6.115+1	4.293+1	1.499+1	3.22+0	2.870+0
2.091+0	3.364+0	3.370+0	6.021+1	4.220+1	1.45E+0	3.433+0	2.870+0
2.741+0	3.64E+0	3.65E+0	5.55E+2	3.993+1	1.223+1	3.365+0	2.870+0
3.267+0	3.904+0	3.912+0	5.187+1	3.794+1	1.065+1	3.285+0	2.870+0
3.811+0	4.194+0	4.203+0	4.829+1	3.597+1	9.114+0	3.20E+0	2.870+0
4.704+0	4.40E+0	4.41E+0	4.597+1	3.468+1	8.129+0	3.15E+0	2.870+0
4.991+0	4.572+0	4.582+0	4.42E+1	3.37E+1	7.53E+0	3.04E+0	2.870+0
5.65E+0	4.734+0	4.744+0	4.27E+1	3.290+1	6.980+0	2.89E+0	2.870+0
6.04E+0	4.836+0	4.846+0	4.18E+1	3.24E+1	6.65E+0	2.810+0	2.870+0
6.367+0	4.993+0	5.004+0	4.05E+1	3.16E+1	6.207+0	2.68E+0	2.870+0
7.15E+0	5.247+0	5.259+0	3.860+1	3.05E+1	5.560+0	2.520+0	2.870+0
8.32E+0	5.47E+0	5.491+0	3.697+1	2.957+1	5.02E+0	2.37E+0	2.870+0
9.177+0	5.724+0	5.737+0	3.538+1	2.85E+1	4.55E+0	2.25+0	2.870+0
1.05E+1	6.06E+0	6.09E+0	3.330+1	2.72E+1	3.92E+0	2.09E+0	2.870+0
1.307+1	6.501+0	6.51E+0	3.11E+1	2.58E+1	3.32E+0	1.91+0	2.870+0
1.581+1	6.897+0	6.913+0	2.637+1	2.450+1	2.861+0	1.82+0	2.870+0
1.88E+1	7.26E+0	7.28E+0	2.787+1	2.364+1	2.49E+0	1.73+0	2.870+0
2.20E+1	7.61E+0	7.631+0	2.660+1	2.27E+1	2.19E+0	1.653+0	2.870+0
2.561+1	7.94E+0	7.96E+0	2.549+1	2.193+1	1.94E+0	1.607+0	2.870+0
2.940+1	8.287+0	8.27E+0	2.43E+1	2.12E+1	1.74E+0	1.560+0	2.870+0
3.34E+1	8.549+0	8.570+0	2.36E+1	2.05E+1	1.57E+0	1.524+0	2.870+0
3.777+1	8.834+0	8.85E+0	2.293+1	2.000+1	1.437+0	1.493+0	2.870+0
4.234+1	9.349+0	9.37E+0	2.16E+1	1.900+1	1.210+0	1.45E+0	2.871+0
5.763+1	1.00E+0	1.00E+0	2.014+1	1.77E+0	9.68E+0	1.391+0	2.871+0
7.527+1	1.087+0	1.090+0	1.863+1	1.671+0	7.77E+0	1.140+0	2.871+0
1.02E+2	1.15E+0	1.15E+0	1.754+1	1.58E+0	6.58E+0	9.95E+0	2.872+0
1.511+2	1.207+0	1.210+0	1.677+1	1.52E+0	5.64E+0	9.867+0	2.872+0
2.091+2	1.26E+0	1.26E+0	1.601+1	1.454+0	4.94E+0	9.77E+0	2.873+0
2.64E+2	1.31E+0	1.32E+0	1.53E+1	1.394+0	4.50E+0	9.67E+0	2.874+0
3.267+2	1.367+0	1.371+0	1.481+1	1.34E+0	4.11E+0	9.56E+0	2.874+0
3.953+2	1.414+0	1.41E+0	1.43E+1	1.300+0	3.73E+0	9.44E+0	2.875+0
4.704+2	1.473+0	1.550+0	1.37E+1	1.24E+0	3.32E+0	9.29E+0	2.876+0
5.761+2	1.53E+0	1.55E+0	1.317+1	1.194+0	2.87E+0	9.10E+0	2.876+0
7.00E+2	1.610+0	1.73E+0	1.25E+1	1.13E+0	2.48E+0	8.89E+0	2.87E+0
8.32E+2	1.673+0	1.81E+0	1.211+1	1.094+0	2.20E+0	8.64E+0	2.881+0
9.891+2	1.76E+0	1.91E+0	1.150+1	1.030+0	2.060+0	8.574+0	2.884+0
1.307+3	1.884+0	2.080+0	1.07E+1	9.454+0	2.031+0	8.78E+0	2.889+0
1.820+3	1.989+0	2.25E+0	1.01E+1	8.79E+0	2.00E+0	8.99E+0	2.893+0
2.07E+3	2.014+0	2.310+0	1.00E+1	8.52E+0	1.93E+0	9.57E+0	2.897+0
2.417+3	2.03E+0	2.370+0	1.00E+1	8.31E+0	1.85E+0	1.031+1	2.897+0
2.710+3	2.09E+0	2.421+0	9.980+0	8.147+0	1.794+0	1.09E+0	2.904+0
2.940+3	2.03E+0	2.461+0	9.930+0	7.93E+0	1.714+0	1.167+0	2.908+0
3.34E+3	2.049+0	2.51E+0	9.89E+0	7.663+0	1.610+0	1.264+0	2.913+0
3.777+3	2.061+0	2.567+0	9.82E+0	7.370+0	1.520+0	1.36E+0	2.918+0
4.234+3	2.077+0	2.589+0	9.753+0	6.927+0	1.36E+0	1.52E+0	2.92E+0
5.13E+3	2.170+0	2.74E+0	9.33E+0	6.271+0	1.07E+0	1.69E+0	2.93E+0
6.32E+3	2.33E+0	2.93E+0	8.67E+0	5.52E+0	1.77E+0	1.81E+0	2.93E+0

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.2805 ± 2				DENSITY 1.9518 ± 1 GRAMS/CC								
ENERGY MEV	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARNs)							ENERGY DEPOSIT (MEV)	
		TOTAL	ELASTIC	ABSORPTN	FISSION	MU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
7.527-1	2.557-0	3.185-0	7.921-0	4.708-0	1.721-1	1.950-0	2.968-0	1.09-4-0	1.799-1	4.453-1	4.249-1	
6.834-1	2.650-0	3.494-0	7.107-0	3.822-0	1.630-1	2.097-0	2.985-0	1.024-0	1.881-1	5.335-1	5.093-1	
1.025-0	2.959-0	3.632-0	6.845-0	3.523-0	1.520-1	2.170-0	3.002-0	1.000-0	1.921-1	5.730-1	5.470-1	
1.176-0	2.938-0	3.715-0	6.894-0	3.553-0	1.394-1	2.201-0	3.021-0	1.000-0	1.942-1	5.770-1	5.508-1	
1.338-0	2.916-0	3.811-1	6.946-0	3.585-0	1.261-1	2.235-0	3.041-0	1.000-0	1.962-1	5.812-1	5.548-1	
1.511-0	2.897-0	3.930-0	6.992-0	3.627-0	1.118-1	2.260-0	3.062-0	1.000-0	1.977-1	5.839-1	5.573-1	
1.694-0	2.880-0	4.011-0	7.032-0	3.656-0	9.678-2	2.279-0	3.085-0	1.000-0	1.987-1	5.853-1	5.586-1	
1.887-0	2.862-0	4.263-0	7.076-0	3.698-0	8.210-2	2.296-0	3.109-0	1.000-0	1.989-1	5.859-1	5.590-1	
2.091-0	2.839-0	4.422-0	7.135-0	3.757-0	7.604-2	2.293-0	3.136-0	1.000-0	1.981-1	5.861-1	5.593-1	
2.305-0	2.813-0	4.459-0	7.220-0	3.844-0	7.165-2	2.284-0	3.164-0	1.000-0	1.969-1	5.729-1	5.462-1	
2.530-0	2.788-0	4.501-0	7.265-0	3.921-0	6.729-2	2.276-0	3.193-0	1.000-0	1.959-1	5.658-1	5.392-1	
2.741-0	2.761-0	4.560-0	7.336-0	4.006-0	6.248-2	2.267-0	3.224-0	1.000-0	1.948-1	5.581-1	5.317-1	
3.011-0	2.740-0	4.605-0	7.392-0	4.078-0	5.722-2	2.257-0	3.257-0	1.000-0	1.932-1	5.515-1	5.251-1	
3.267-0	2.726-0	4.674-0	7.430-0	4.130-0	5.200-2	2.247-0	3.288-0	1.000-0	1.912-1	5.464-1	5.200-1	
3.533-0	2.712-0	4.751-0	7.468-0	4.184-0	4.656-2	2.237-0	3.321-0	1.000-0	1.897-1	5.412-1	5.147-1	
3.811-0	2.699-0	4.835-0	7.505-0	4.236-0	4.134-2	2.227-0	3.353-0	1.000-0	1.885-1	5.362-1	5.097-1	
4.069-0	2.689-0	4.911-0	7.505-0	4.250-0	3.884-2	2.216-0	3.390-0	1.000-0	1.877-1	5.336-1	5.069-1	
4.396-0	2.703-0	4.960-0	7.492-0	4.250-0	3.725-2	2.204-0	3.432-0	1.000-0	1.871-1	5.318-1	5.048-1	
4.704-0	2.708-0	5.007-0	7.479-0	4.250-0	3.576-2	2.193-0	3.470-0	1.000-0	1.868-1	5.301-1	5.029-1	
4.991-0	2.722-0	5.060-0	7.439-0	4.224-0	3.414-2	2.181-0	3.517-0	1.000-0	1.865-1	5.301-1	5.025-1	
5.353-0	2.745-0	5.128-0	7.375-0	4.174-0	3.247-2	2.169-0	3.571-0	1.000-0	1.853-1	5.318-1	5.037-1	
5.659-0	2.771-0	5.192-0	7.308-0	4.122-0	3.075-2	2.156-0	3.626-0	9.991-1	1.861-1	5.338-1	5.052-1	
6.042-0	2.822-0	5.291-0	7.177-0	4.018-0	2.898-2	2.211-0	3.689-0	9.182-1	1.881-1	5.567-1	5.272-1	
6.357-0	2.893-0	5.379-0	6.972-0	3.879-0	2.724-2	2.315-0	3.755-0	7.793-1	1.919-1	5.960-1	5.655-1	
6.737-0	2.981-0	5.498-0	6.794-0	3.724-0	2.527-2	2.424-0	3.829-0	6.199-1	1.950-1	6.413-1	6.098-1	
7.156-0	3.054-0	5.585-0	6.632-0	3.594-0	2.324-2	2.441-0	3.900-0	5.726-1	1.878-1	6.589-1	6.286-1	
7.548-0	3.099-0	5.594-0	6.535-0	3.481-0	2.136-2	2.432-0	3.964-0	5.000-1	1.895-1	6.645-1	6.351-1	
7.910-0	3.164-0	5.647-0	6.401-0	3.359-0	1.974-2	2.422-0	4.027-0	5.000-1	1.958-1	6.748-1	6.454-1	
8.322-0	3.248-0	5.685-0	6.236-0	3.206-0	1.861-2	2.411-0	4.093-0	5.000-1	1.955-1	6.888-1	6.590-1	
8.787-0	3.330-0	5.710-0	6.081-0	3.062-0	1.755-2	2.400-0	4.156-0	6.010-1	1.932-1	7.026-1	6.722-1	
9.177-0	3.365-0	5.716-0	5.962-0	2.966-0	1.645-2	2.389-0	4.215-0	6.105-1	1.926-1	7.107-1	6.798-1	
9.665-0	3.439-0	5.713-0	5.890-0	2.875-0	1.527-2	2.378-0	4.276-0	6.223-1	1.920-1	7.181-1	6.865-1	
1.012-1	3.454-0	5.698-0	5.864-0	2.850-0	1.412-2	2.366-0	4.339-0	6.338-1	1.908-1	7.176-1	6.856-1	
1.059-1	3.454-0	5.688-0	5.863-0	2.850-0	1.300-2	2.355-0	4.402-0	6.449-1	1.898-1	7.143-1	6.821-1	
1.101-1	3.462-0	5.715-0	5.891-0	2.884-0	1.180-2	2.462-0	4.473-0	5.130-1	1.736-1	7.474-1	7.138-1	
1.155-1	3.474-0	5.766-0	5.830-0	2.888-0	1.057-2	2.658-0	4.546-0	2.727-1	2.008-1	8.083-1	7.728-1	
1.199-1	3.467-0	5.767-0	5.841-0	2.912-0	9.846-3	2.746-0	4.622-0	1.730-1	2.043-1	8.324-1	7.962-1	
1.250-1	3.441-0	5.736-0	5.887-0	2.939-0	9.510-3	2.737-0	4.713-0	2.009-1	2.042-1	8.628-1	7.868-1	
1.307-1	3.420-0	5.723-0	5.921-0	2.965-0	9.184-3	2.728-0	4.790-0	2.007-1	2.034-1	8.147-1	7.790-1	
1.354-1	3.407-0	5.728-0	5.944-0	2.995-0	8.936-3	2.722-0	4.841-0	2.264-1	2.022-1	8.090-1	7.736-1	
1.386-1	3.398-0	5.730-0	5.950-0	2.999-0	8.751-3	2.717-0	4.880-0	2.356-1	2.013-1	8.049-1	7.697-1	
1.413-1	3.393-0	5.734-0	5.970-0	3.007-0	8.551-3	2.712-0	4.916-0	2.422-1	2.005-1	8.018-1	7.669-1	
1.441-1	3.386-0	5.738-0	5.979-0	3.014-0	8.409-3	2.708-0	4.953-0	2.499-1	1.997-1	7.988-1	7.641-1	
1.468-1	3.381-0	5.739-0	5.991-0	3.023-0	8.166-3	2.700-0	5.006-0	2.593-1	1.989-1	7.943-1	7.599-1	
1.519-1	3.373-0	5.747-0	6.005-0	3.037-0	7.831-3	2.676-0	5.079-0	2.835-1	2.025-1	7.894-1	7.509-1	
1.575-1	3.365-0	5.758-0	6.019-0	3.051-0	7.472-3	2.648-0	5.158-0	3.122-1	2.021-1	7.742-1	7.404-1	
1.633-1	3.357-0	5.781-0	6.032-0	3.066-0	7.107-3	2.619-0	5.238-0	3.414-1	2.008-1	7.633-1	7.298-1	
1.692-1	3.349-0	5.814-0	6.047-0	3.081-0	6.736-3	2.623-0	5.320-0	3.701-1	2.008-1	7.622-1	7.285-1	
1.752-1	3.341-0	5.848-0	6.062-0	3.096-0	6.357-3	2.682-0	5.403-0	2.783-1	2.031-1	7.756-1	7.423-1	
1.813-1	3.333-0	5.882-0	6.077-0	3.111-0	5.972-3	2.711-0	5.487-0	2.489-1	2.043-1	7.824-1	7.477-1	
1.875-1	3.320-0	5.909-0	6.100-0	3.134-0	5.389-3	2.734-0	5.615-0	2.256-1	2.049-1	7.851-1	7.502-1	
2.000-1												
RESONANCE INTEGRALS				4.433-2	2.580-2	1.492-2	3.213-1		3.953-0	1.356-3		
MAXWELLIAN AVERAGES				5.001-2	2.095-1	4.453-2	1.386-1	2.870-0		3.567-3		
1/E AVERAGES				2.532-1	1.474-1	8.533-0	1.835-0	3.078-0	2.208-0	1.745-1		
FISSION AVERAGES				7.778-0	4.664-0	1.116-1	2.043-0	3.154-0	9.591-1	1.793-1		
FUSION AVERAGES				5.960-0	2.998-0	8.709-3	2.715-0	4.889-0	2.372-1	2.012-1		

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

54-Pu-239

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ENDL 175 Group Neutron Constants

94-Pu-239

ATOMIC WEIGHT 2.3905+2				DENSITY 1.9600+1 GRAMS/CC					
ENERGY		MEP (CM)		CROSS SECTION (BARN)				ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER GAM-FROD.	TOTAL	LOCAL
1.407	6.196	6.190	2.982	3.319	7.123	2.257	2.844	2.216	1.380
1.427	6.190	6.180	1.600	1.220	3.767	1.112	2.844	1.114	1.260
1.451	6.193	6.182	1.048	0.861	2.770	7.604	2.844	7.784	1.325
1.475	6.183	6.170	8.962	9.951	2.578	6.289	2.844	6.685	1.284
1.499	6.165	6.155	7.627	8.304	2.290	5.253	2.844	5.702	1.190
1.523	6.154	6.144	7.574	7.014	2.612	6.889	2.844	5.716	1.165
1.547	6.131	6.121	1.074	0.213	3.806	4.374	2.844	6.951	1.053
1.571	6.123	6.112	2.196	6.971	8.836	1.305	2.844	1.688	1.027
1.595	6.140	6.129	4.559	1.474	1.804	3.636	2.844	3.429	1.022
1.619	6.162	6.152	1.744	1.762	6.700	1.051	2.844	1.326	1.042
1.643	6.193	6.184	6.617	4.472	1.524	2.939	2.844	3.393	1.171
1.667	6.248	6.239	1.622	2.273	4.588	1.036	2.844	1.131	1.170
1.691	6.285	6.276	7.222	1.162	1.642	4.216	2.844	4.407	1.098
1.715	6.330	6.321	1.674	1.102	8.554	2.699	2.844	2.653	1.052
1.739	6.384	6.375	3.464	1.123	4.660	1.914	2.844	1.760	1.096
1.763	6.451	6.442	6.602	1.074	1.690	1.394	2.844	1.135	1.123
1.787	6.519	6.510	1.131	1.074	8.209	1.092	2.844	8.461	1.090
1.811	6.590	6.581	1.967	1.075	8.270	1.868	2.844	6.951	1.084
1.835	6.666	6.657	1.844	1.964	1.244	7.584	2.844	6.471	1.112
1.859	6.746	6.737	1.854	1.910	2.247	7.239	2.844	7.074	1.101
1.883	6.844	6.835	2.191	1.186	1.015	1.057	2.844	1.625	1.003
1.907	6.946	6.937	2.474	1.973	4.774	0.700	2.844	8.820	1.042
1.931	7.046	7.037	2.674	1.098	6.005	1.810	2.844	1.802	1.024
1.955	7.146	7.137	2.623	1.037	1.037	1.209	2.844	1.751	1.064
1.979	7.246	7.237	2.611	1.261	1.015	1.136	2.844	1.680	1.022
2.003	7.346	7.337	2.600	2.276	1.007	1.571	2.844	1.982	1.033
2.027	7.446	7.437	2.579	1.106	2.591	4.377	2.844	5.424	1.052
2.051	7.546	7.537	2.563	2.153	1.353	9.065	2.844	1.533	1.082
2.075	7.646	7.637	1.614	1.744	1.139	1.526	2.844	4.531	1.048
2.099	7.746	7.737	1.082	1.872	1.552	7.196	2.844	1.329	1.006
2.123	7.846	7.837	1.113	1.377	1.261	7.361	2.844	1.566	1.032
2.147	7.946	7.937	1.204	1.665	1.031	1.750	2.844	4.901	1.045
2.171	8.046	8.037	1.528	1.368	1.435	5.721	2.844	9.256	1.053
2.195	8.146	8.137	1.760	1.613	1.191	0.174	2.844	1.163	1.061
2.219	8.246	8.237	1.403	1.132	1.153	2.292	2.844	1.295	1.036
2.243	8.346	8.337	1.634	1.235	1.059	3.471	2.844	1.308	1.099
2.267	8.446	8.437	1.911	1.277	1.875	3.107	2.844	8.917	1.077
2.291	8.546	8.537	1.958	1.057	1.574	8.444	2.844	9.062	1.144
2.315	8.646	8.637	1.167	1.948	5.142	1.704	2.844	1.657	1.233
2.339	8.746	8.737	1.161	1.791	1.440	2.204	2.844	2.809	1.280
2.363	8.846	8.837	2.311	3.029	1.647	3.606	2.844	1.674	1.299
2.387	8.946	8.937	1.725	1.022	3.710	5.523	2.844	5.686	1.329
2.411	9.046	9.037	1.130	1.902	4.213	1.216	2.844	1.155	1.480
2.435	9.146	9.137	1.274	1.025	2.302	8.810	2.844	8.237	1.126
2.459	9.246	9.237	1.621	1.954	8.052	4.442	2.844	3.847	1.282
2.483	9.346	9.337	1.350	1.688	7.237	4.575	2.844	9.479	1.056
2.507	9.446	9.437	3.182	2.797	1.989	3.954	2.844	1.933	1.147
2.531	9.546	9.537	4.771	1.274	1.993	1.634	2.844	2.750	1.519
2.555	9.646	9.637	1.400	2.389	8.518	1.221	2.844	1.405	1.835
2.579	9.746	9.737	1.874	2.669	2.334	1.404	2.844	1.198	1.345
2.603	9.846	9.837	6.157	1.075	6.033	4.579	2.844	3.771	1.265
2.627	9.946	9.937	1.404	1.070	2.006	4.329	2.844	4.800	1.010
2.651	10.046	10.037	4.685	2.533	1.863	2.064	2.844	3.074	1.761
2.675	10.146	10.137	1.305	1.279	1.758	1.610	2.844	1.295	1.078
2.699	10.246	10.237	1.927	1.938	8.165	1.944	2.844	7.141	1.111
2.723	10.346	10.337	2.615	5.368	7.427	1.337	2.844	1.589	1.835
2.747	10.446	10.437	6.935	2.967	1.075	2.893	2.844	2.973	1.208
2.771	10.546	10.537	1.914	1.300	8.543	5.287	2.844	4.489	1.772
2.795	10.646	10.637	3.266	1.101	9.736	2.087	2.844	1.566	1.272
2.819	10.746	10.737	8.225	1.920	6.444	6.660	2.844	5.283	1.399
2.843	10.846	10.837	1.874	3.021	4.886	1.085	2.844	1.191	1.041
2.867	10.946	10.937	1.947	2.674	9.817	1.361	2.844	1.081	1.344

ATOMIC WEIGHT 2.3905+2		DENSITY 1.9600+1 GRAMS/CC									
ENERGY	MFP (CM)		CROSS SECTION (BARNs)								ENERGY DEPOSIT (MEV)
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	4.001-1	4.005-1	5.062-1	2.143-1	1.380-1	1.540-1	2.884+0		2.201-2	5.662+2	5.256+1
9.386-5	3.085-1	3.086-1	6.566-1	1.374-1	1.511-1	3.681+1	2.944+0		3.915-2	1.026+2	9.689+1
9.658-5	2.568-1	3.777-1	5.375-1	1.344-1	1.065-0	3.925+1	2.884+0		2.870-2	1.318+2	1.262+2
9.911-5	6.923-1	6.930-1	2.988+1	1.103-1	4.465-1	1.820+1	2.884+0		1.331-2	1.107+2	0.050-2
1.025-4	4.207-1	2.403-1	8.412-1	2.289+1	4.026-1	2.097+1	2.884+0		4.956-2	4.807+1	4.308-1
1.099-4	6.898-1	6.904-1	2.936-1	1.039-1	4.359-0	1.461+1	2.884+0		1.413-2	9.068+1	8.598-1
1.176-4	2.206-1	2.208-1	9.182-1	3.146-1	2.929+1	3.108+1	2.884+0		4.728-2	6.310+1	5.848+1
1.256-4	4.045-1	4.048-1	5.007-1	1.193-1	1.034-1	2.575+1	2.884+0		2.895-2	9.346+1	8.888+1
1.338-4	4.691-1	4.695-1	4.141-1	1.432-1	1.140-1	1.568+1	2.884+0		2.096-2	7.010+1	6.547+1
1.406-4	3.991-1	3.994-1	5.075-1	1.473-1	2.176-1	1.425+1	2.884+0		2.886-2	5.344+1	4.953+1
1.511-4	5.595-1	5.600-1	3.620-1	1.038-1	5.262-0	2.075+1	2.884+0		1.912-2	1.033+2	9.811+1
1.601-4	1.966-1	1.969-1	1.030-2	5.368-1	3.500-1	1.433+1	2.884+0		4.031-2	2.730+1	2.404+1
1.694-4	6.846-1	6.854-1	2.959+1	1.222-1	1.123-1	6.134+0	2.884+0		1.402-2	3.986+1	3.583+1
1.789-4	7.562-1	7.570-1	2.678-1	1.054-1	5.930-0	1.032+1	2.884+0		1.243-2	7.089+1	6.655+1
1.887-4	4.197-1	4.200-1	4.825-1	1.113-1	9.511-0	2.761+1	2.884+0		2.779-2	1.045+2	9.888+1
1.968-4	2.896-1	2.898-1	6.993+1	1.665-1	1.927+1	3.401+1	2.884+0		4.074-2	8.398+1	8.404+1
2.091-4	3.954-1	3.958-1	5.122-1	2.028-1	1.622-1	1.472+1	2.884+0		2.442-2	5.388+1	4.965+1
2.741-4	3.907-1	3.911-1	5.185-1	2.093-1	1.508-1	1.584+1	2.884+0		2.423-2	5.690+1	5.279+1
3.267-4	5.339-1	5.344-1	3.793-1	1.361-1	1.279-1	1.153+1	2.884+0		1.920-2	5.701+1	5.253+1
3.811-4	6.056-1	6.062-1	3.344-1	1.199-1	1.134-1	1.012+1	2.884+0		1.694-2	5.675+1	5.227+1
4.704-4	6.262-1	6.269-1	3.224-1	1.265-1	1.039-1	9.187+0	2.884+0		1.548-2	5.355+1	4.930+1
4.991-4	5.479-1	5.487-1	3.696-1	1.958-1	9.780+0	8.603+0	2.884+0		1.453-2	4.369+1	4.025+1
5.656-4	4.590-1	4.598-1	3.623-1	1.901-1	9.188+0	8.030+0	2.884+0		1.361-2	4.162+1	3.830+1
6.042-4	6.743-1	6.752-1	3.003-1	1.349-1	8.845+0	7.703+0	2.884+0		1.308-2	4.816+1	4.432+1
6.367-4	7.089-1	7.096-1	2.857-1	1.296-1	8.362+0	7.252+0	2.884+0		1.255-2	4.768+1	4.386+1
7.156-4	7.566-1	7.566-1	2.680-1	1.256-1	7.658+0	6.566+0	2.884+0		1.127-2	4.617+1	4.247+1
8.322-4	7.871-1	7.882-1	2.573-1	1.265-1	7.063+0	6.021+0	2.884+0		1.036-2	4.398+1	4.043+1
9.177-4	7.270-1	7.282-1	2.786-1	1.580-1	6.525+0	5.536+0	2.884+0		9.549-2	3.736+1	3.434+1
1.058-3	7.329-1	7.342-1	2.763-1	1.675-1	5.820+0	5.058+0	2.884+0		8.610-2	3.444+1	3.169+1
1.307-3	7.674-1	7.687-1	2.639-1	1.667-1	5.105+0	4.620+0	2.884+0		7.677-2	3.283+1	3.025+1
1.581-3	7.986-1	8.001-1	2.536-1	1.658-1	4.532+0	4.247+0	2.884+0		6.918-2	3.136+1	2.894+1
1.882-3	8.277-1	8.293-1	2.447-1	1.647-1	4.063+0	3.932+0	2.884+0		6.291-2	3.006+1	2.777+1
2.208-3	8.566-1	8.582-1	2.364-1	1.631-1	3.674+0	3.663+0	2.884+0		5.765-2	2.895+1	2.677+1
2.561-3	8.844-1	8.862-1	2.290-1	1.612-1	3.344+0	3.430+0	2.884+0		5.316-2	2.796+1	2.588+1
2.940-3	9.113-1	9.131-1	2.222-1	1.594-1	3.063+0	3.223+0	2.884+0		4.795-2	2.704+1	2.508+1
3.345-3	9.366-1	9.385-1	2.162-1	1.576-1	2.823+0	3.042+0	2.884+0		4.591-2	2.621+1	2.431+1
3.777-3	9.613-1	9.633-1	2.107-1	1.557-1	2.615+0	2.883+0	2.884+0		4.300-2	2.548+1	2.365+1
4.234-3	1.012+0	1.014+0	2.002-1	1.514+1	2.469+0	2.607+0	2.884+0		3.806-2	2.422+1	2.250+1
5.763-3	1.055+0	1.097+0	1.890-1	1.444+1	1.773+0	2.285+0	2.884+0		3.150-2	2.290+1	2.135+1
7.527-3	1.216+0	1.219+0	1.666-1	1.348+1	1.176+0	1.999+0	2.884+0		2.433-2	2.210+1	2.074+1
1.025-2	1.302+0	1.305+0	1.556-1	1.287+1	8.558-1	1.898+0	2.884+0		2.043-2	2.165+1	2.041+1
1.511-2	1.364+0	1.349+0	1.504-1	1.260+1	6.859-1	1.758+0	2.884+0		1.840-2	2.137+1	2.020+1
2.091-2	1.387+0	1.391+0	1.460-1	1.232+1	6.837-1	1.699+0	2.884+0		1.710-2	2.124+1	2.011+1
2.646-2	1.429+0	1.433+0	1.417-1	1.204+1	4.813-1	1.654+0	2.884+0		1.580-2	2.127+1	2.017+1
3.267-2	1.462+0	1.466+0	1.385-1	1.184+1	3.968-1	1.612+0	2.884+0		1.488-2	2.117+1	2.011+1
3.953-2	1.492+0	1.496+0	1.357-1	1.166+1	3.337-1	1.578+0	2.884+0		1.409-2	2.113+1	2.010+1
4.704-2	1.527+0	1.602+0	1.326-1	1.143+1	2.911-1	1.547+0	2.884+0	7.736-7	1.351-1	2.117+1	2.016+1
5.761-2	1.567+0	1.681+0	1.230-1	1.113+1	2.528-1	1.571+0	2.884+0	7.690-4	1.310-1	2.157+1	2.055+1
7.002-2	1.612+0	1.734+0	1.057-1	1.080+1	2.356-1	1.526+0	2.884+0	2.755-3	1.288-1	2.202+1	2.099+1
8.322-2	1.663+0	1.794+0	1.218+1	1.043+1	2.260-1	1.515+0	2.884+0	7.956-3	1.273+1	2.255+1	2.149+1
9.891-2	1.726+0	1.869+0	1.173+1	9.993+0	2.156+1	1.497+0	2.884+0	2.607-2	1.259+1	2.313+1	2.205+1
1.307-1	1.816+0	1.996+0	1.115+1	9.412+0	2.031+1	1.471+0	2.884+0	6.912-2	1.224+1	2.389+1	2.278+1
1.820-1	1.897+0	2.139+0	1.067+1	8.881+0	1.916+1	1.490+0	2.884+0	1.122-1	1.238+1	2.528+1	2.412+1
2.075-1	1.930+0	2.213+0	1.045+1	8.603+0	1.882+1	1.513+0	2.884+0	1.543+1	1.250+1	2.620+1	2.500+1
2.417-1	1.976+0	2.308+0	1.026+1	8.349+0	1.717+1	1.574+0	2.884+0	1.987+1	1.259+1	2.704+1	2.581+1
2.710-1	2.009+0	2.392+0	1.008+1	8.140+0	1.632+1	1.547+0	2.884+0	2.888+0	1.269+1	2.777+1	2.652+1
2.940-1	2.051+0	2.478+0	9.873+0	7.901+0	1.529+1	1.559+0	2.884+0	2.598+1	1.239+1	2.857+1	2.729+1
3.345-1	2.108+0	2.595+0	9.610+0	7.607+0	1.393+1	1.566+0	2.900+0	2.974+1	1.228+1	2.946+1	2.815+1
3.777-1	2.173+0	2.732+0	9.320+0	7.266+0	1.253+1	1.572+0	2.907+0	3.561+1	1.225+1	3.050+1	2.914+1
4.234-1	2.345+0	2.979+0	8.636+0	6.492+0	1.079+1	1.583+0	2.917+0	4.541+1	1.220+1	3.311+1	3.165+1
5.123-1	2.522+0	3.244+0	8.031+0	5.738+0	7.236-2	1.611+0	2.933+0	6.090+1	1.213+1	3.622+1	3.464+1
6.325-1	2.646+0	3.377+0	7.648+0	5.137+0	5.075-2	1.651+0	2.952+0	8.097+1	1.205+1	3.895+1	3.726+1

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 240.05312				DENSITY 1.9682 g/CC						
ENERGY	MFP (CM)	CROSS SECTION (BARN)						ENERGY DEPOSIT (MEV)		
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORB	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	2.406-2	2.405-2	0.416-2	5.909-0	8.356-2	1.670-1	2.750-0	5.775-3	5.238-0	3.439-3
5.227-9	4.581-2	4.581-2	4.421-2	5.700-0	4.363-2	8.711-2	2.750-0	3.015-3	5.207-0	3.415-3
2.051-8	6.763-2	6.763-2	2.995-2	5.408-0	2.940-2	5.866-2	2.750-0	2.032-3	5.180-0	3.394-3
3.267-8	7.961-2	7.962-2	2.594-2	5.130-0	2.492-2	4.965-2	2.750-0	1.722-3	5.169-0	3.383-3
4.704-8	9.824-2	9.824-2	2.062-2	4.591-0	2.015-2	4.007-2	2.750-0	1.393-3	5.157-0	3.368-3
8.322-8	1.169-1	1.169-1	1.732-2	3.700-0	1.695-2	3.358-2	2.750-0	1.171-3	5.162-0	3.360-3
1.307-7	1.285-1	1.285-1	1.576-2	2.878-0	1.547-2	3.053-2	2.750-0	1.069-3	5.178-0	3.360-3
1.882-7	1.338-1	1.338-1	1.513-2	2.449-0	1.489-2	2.923-2	2.750-0	1.029-3	5.189-0	3.347-3
2.561-7	1.283-1	1.283-1	1.579-2	1.962-0	1.559-2	3.045-2	2.750-0	1.077-3	5.209-0	3.343-3
3.345-7	1.169-1	1.169-1	1.733-2	1.444-0	1.718-2	3.240-2	2.750-0	1.198-3	5.230-0	3.340-3
4.234-7	9.816-2	9.816-2	2.063-2	1.221-0	2.051-2	3.970-2	2.750-0	1.417-3	5.243-0	3.335-3
5.123-7	5.520-2	5.520-2	3.807-2	4.769-0	3.759-2	7.275-2	2.750-0	2.588-3	5.208-0	3.312-3
7.527-7	9.772-4	9.774-4	2.073-3	1.556-3	1.917-4	3.661-0	2.750-0	1.325-5	4.877-0	3.297-3
1.176-6	1.803-2	1.804-2	1.123-3	1.523-2	9.708-2	1.856-1	2.750-0	6.708-3	4.558-0	2.864-3
1.511-6	1.428-1	1.429-1	1.419-2	1.132-1	1.005-2	1.994-2	2.750-0	6.948-2	3.739-0	2.436-3
2.031-6	4.553-1	4.560-1	1.448-1	2.485-1	1.862-1	4.399-3	2.750-0	1.356-2	2.330-0	1.714-3
2.741-6	7.692-1	7.708-1	2.633-2	1.925-1	7.075-0	1.068-3	2.750-0	4.800-1	1.421-1	1.295-3
3.533-6	1.047-0	1.049-0	1.935-1	1.634-1	3.013-0	1.131-3	2.750-0	2.082-1	8.263-1	1.012-3
4.704-6	1.229-0	1.232-0	1.648-1	1.495-1	1.524-0	7.959-4	2.750-0	1.054-1	4.933-1	8.361-1
5.658-6	1.367-0	1.370-0	1.482-1	1.397-1	9.485-1	6.608-4	2.750-0	6.559-0	3.436-1	7.813-1
6.737-6	1.457-0	1.460-0	1.390-1	1.330-1	5.993-1	6.020-4	2.750-0	4.145-0	2.337-1	7.493-1
8.322-6	1.535-0	1.539-0	1.319-1	1.279-1	4.015-1	5.665-4	2.750-0	2.776-0	1.672-1	7.431-1
9.620-6	1.605-0	1.610-0	1.262-1	1.231-1	3.062-1	8.769-4	2.750-0	2.120-0	1.354-1	7.912-1
1.101-5	1.697-0	1.702-0	1.193-1	1.170-1	2.55-1	6.442-4	2.750-0	1.638-0	1.136-1	9.341-1
1.307-5	1.801-0	1.805-0	1.125-1	1.104-1	2.005-1	7.068-4	2.750-0	1.432-0	1.089-1	9.341-1
1.468-5	1.881-0	1.887-0	1.076-1	1.055-1	2.116-1	1.026-3	2.750-0	1.469-0	1.169-1	9.169-1
1.581-5	1.967-0	1.972-0	1.030-1	1.003-1	2.615-1	1.575-3	2.750-0	1.819-0	1.1-1	6.647-1
1.758-5	2.027-0	2.032-0	9.993-0	9.499-0	4.913-3	3.630-3	2.750-0	3.421-0	3.232-1	6.284-2
1.882-5	6.994-2	6.996-2	2.896-2	3.604-1	2.513-2	2.225-0	2.750-0	1.753-3	5.374-1	1.329-2
2.075-5	5.345-1	5.362-1	2.167-1	1.435-1	7.249-0	6.362-2	2.750-0	5.052-1	2.762-0	5.249-1
2.277-5	1.665-0	1.670-0	1.216-1	1.187-1	2.905-1	2.100-3	2.750-0	2.023-0	1.563-1	9.907-1
2.417-5	1.777-0	1.782-0	1.140-1	1.120-1	1.924-1	1.342-3	2.750-0	1.339-0	1.097-1	2.037-2
2.561-5	1.896-0	1.901-0	1.068-1	1.051-1	1.679-1	1.148-3	2.750-0	1.169-0	1.118-1	1.660-2
2.710-5	2.029-0	2.035-0	9.980-0	9.607-0	1.725-3	1.093-3	2.750-0	1.200-0	1.104-1	1.894-2
2.862-5	2.142-0	2.146-0	9.455-0	9.265-0	1.889-3	1.197-3	2.750-0	1.314-0	1.275-1	2.191-2
2.940-5	2.271-0	2.277-0	8.919-0	8.708-0	2.096-3	1.321-3	2.750-0	1.458-0	1.499-1	2.456-2
3.099-5	2.510-0	2.517-0	8.069-0	7.752-0	3.145-3	1.899-3	2.750-0	2.477-0	2.467-1	1.070-2
3.345-5	3.059-0	3.067-0	6.620-0	5.836-0	7.794-1	4.441-3	2.750-0	5.418-0	7.390-1	1.161-2
3.601-5	2.652-2	2.656-2	7.636-2	3.757-2	3.861-2	1.845-0	2.750-0	2.681-3	3.086-0	4.180-2
3.866-5	5.314-1	5.325-1	3.811-1	2.654-1	1.151-1	6.352-2	2.750-0	8.000-1	1.884-0	2.884-1
4.048-5	2.149-2	2.152-2	9.422-2	4.385-2	4.985-2	5.118-0	2.750-0	3.482-3	3.753-0	9.939-1
4.234-5	4.970-1	4.982-1	4.075-1	3.384-1	6.838-0	6.839-2	2.750-0	4.775-1	1.182-0	2.900-2
4.529-5	1.042-0	1.044-0	1.944-1	1.855-1	8.885-1	9.216-3	2.750-0	6.199-0	3.157-1	2.811-2
4.819-5	1.351-0	1.355-0	1.493-1	1.464-1	3.428-1	2.939-3	2.750-0	2.390-0	1.553-1	3.393-2
4.717-5	1.452-0	1.456-0	1.394-1	1.371-1	2.364-1	2.035-3	2.750-0	1.648-0	1.152-1	5.225-2
4.918-5	1.579-0	1.584-0	1.282-1	1.264-1	1.810-1	1.502-3	2.750-0	1.262-0	9.511-2	2.027-2
5.123-5	1.728-0	1.733-0	1.172-1	1.155-1	1.617-1	1.335-3	2.750-0	1.127-0	9.289-2	1.971-2
5.332-5	1.959-0	1.964-0	1.034-1	1.016-1	1.766-1	1.315-3	2.750-0	1.232-0	1.160-1	2.000-2
5.554-5	2.189-0	2.194-0	9.252-0	9.030-0	2.193-1	1.602-3	2.750-0	1.525-0	1.599-1	3.371-2
5.763-5	2.502-0	2.509-0	8.095-0	7.762-0	3.298-1	2.847-3	2.750-0	2.299-0	2.770-1	6.086-2
6.097-5	3.334-0	3.342-0	6.074-0	5.306-0	7.614-1	6.615-3	2.750-0	5.309-0	8.534-1	1.684-2
6.325-5	2.757-0	2.761-0	7.345-0	3.233-0	4.076-0	3.536-2	2.750-0	2.842-2	3.777-0	8.328-1
6.557-5	9.367-3	9.385-3	2.162-3	1.495-3	8.614-2	5.726-0	2.750-0	4.612-3	2.091-0	4.582-1
6.674-5	8.225-2	8.242-2	2.462-2	1.831-2	6.262-2	5.424-1	2.750-0	4.366-2	1.730-0	4.582-1
7.034-5	1.388-0	1.391-0	1.459-1	1.249-1	2.098-1	2.035-3	2.750-0	1.456-1	1.002-1	2.413-1
7.155-5	5.573-2	5.582-2	3.634-2	2.006-2	2.612-2	1.644-0	2.750-0	1.126-3	3.141-0	7.028-1
7.527-5	9.530-1	9.557-1	2.125-1	2.077-1	4.735-1	4.599-3	2.750-0	3.308-0	1.559-1	3.745-2
7.780-5	1.122-0	1.125-0	1.805-1	1.780-1	2.418-1	2.268-3	2.750-0	1.687-0	9.290-2	2.175-2
7.808-5	1.291-0	1.294-0	1.569-1	1.552-1	1.740-1	1.619-3	2.750-0	1.214-0	7.672-2	7.895-2
8.167-5	1.455-0	1.459-0	1.392-1	1.377-1	1.414-1	1.306-3	2.750-0	9.862-1	7.017-2	1.624-2
8.431-5	1.713-0	1.718-0	1.182-1	1.161-1	2.069-1	2.085-3	2.750-0	1.445-0	1.235-1	1.624-2
8.834-5	9.214-2	9.225-2	2.196-2	9.212-2	1.263-2	1.372-0	2.750-0	6.828-2	4.138-0	1.090-2

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ENDL 175 Group Neutron Constants

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ATOMIC HEIGHT 2.4005+2				DENSITY 1.9682+1 GRAMS/CC							
ENERGY	HFP (CM)			CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	MU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	2.771-1	2.777-1	7.308+0	2.702+1	4.566+0	4.063-1	2.750+0		3.184+2	4.277+0	9.619-1
9.386-5	1.304+0	1.307+0	1.563+0	1.524+0	2.898-1	2.742-3	2.750+0		1.995+0	1.283-1	3.055-2
9.668-5	1.560+0	1.564+0	1.299+0	1.278+0	2.074-1	1.863-3	2.750+0		1.446+0	1.052-1	2.482-2
9.911-5	2.075+0	2.080+0	9.761+0	9.298+0	4.590-1	3.930-3	2.750+0		3.200+0	3.191-1	6.966-2
1.005-4	2.775-2	2.768-2	2.612+2	2.766+2	8.316+1	6.908-1	2.750+0		5.852+2	2.162+0	4.576-1
1.099-4	1.293+0	1.297+0	1.565+0	1.550+0	1.618+0	1.421-3	2.750+0		1.128+0	7.053-2	1.571-2
1.178-4	2.785-1	2.788-1	7.271+0	3.671+0	3.568+0	3.470-1	2.750+0		2.449+0	3.421+0	8.161-1
1.265-4	1.499+0	1.503+0	1.351+0	1.272+0	7.081-1	6.860-3	2.750+0		5.496+0	3.972-1	8.793-2
1.458-4	2.339-1	2.142-1	9.470+0	4.928+0	4.504+0	3.875-1	2.750+0		3.141+2	3.231+0	7.079-1
1.466-4	1.663+0	1.668+0	1.218+0	1.198+0	1.967-1	1.885-3	2.750+0		1.373+0	1.126-1	2.670-2
1.511-4	3.529-1	3.533-1	5.739+0	3.087+0	2.628-1	2.366-1	2.750+0		1.833+2	3.150+0	7.194-1
1.601-4	5.655-1	5.664+0	3.581+0	1.858+0	1.705+0	1.655-1	2.750+0		1.181+2	3.331+0	7.994-1
1.694-4	3.914+0	3.920+0	5.174+0	2.914+0	2.214+0	2.120-1	2.750+0		1.562+2	3.007+0	7.089-1
1.789-4	3.974+0	3.980+0	5.095+0	2.906+0	2.169+0	2.075-1	2.750+0		1.514+2	2.955+0	7.044-1
1.867-4	1.550+0	1.554+0	1.307+0	1.259+0	4.668+0	4.094+0	2.750+0		3.255+0	2.438-1	5.422-2
1.988-4	1.403+0	1.406+0	1.444+0	1.208+0	2.341+0	2.001-2	2.750+0		1.632+0	1.100+0	2.399-1
2.091-4	1.004+0	1.006+0	2.017+0	1.441+0	5.705+0	5.161-2	2.750+0		3.980+0	1.944+0	4.427-1
2.241-4	3.556-1	3.564+0	1.568+0	4.605+0	1.081+0	9.110-2	2.750+0		7.537+1	1.283+0	2.768-1
2.267-4	7.849-1	7.863+0	2.590+0	1.762+0	8.101+0	8.457-2	2.750+0		5.659+0	2.237+0	5.671-1
3.911-4	7.574-1	7.591+0	2.674+0	2.193+0	4.741+0	6.591-2	2.750+0		3.324+1	1.374+0	4.265-1
4.704-4	1.376+0	1.379+0	1.472+0	1.106+0	3.595+0	6.166-2	2.750+0		2.529+0	2.036+0	7.247-1
4.991-4	9.315+0	9.333+0	2.174+0	1.544+0	6.219+0	8.310-2	2.750+0		4.358+0	2.189+0	6.614-1
5.658-4	7.521+0	7.537+0	2.693+0	2.095+0	5.892+0	8.423-2	2.750+0		4.133+1	1.711+0	5.412-1
6.042-4	1.131+0	1.133+0	1.793+0	1.236+0	4.466+0	7.357-2	2.750+0		3.141+1	2.049+0	7.110-1
6.367-4	6.729+0	6.745+0	3.010+0	2.604+0	3.994+0	6.722-2	2.750+0		2.809+1	1.039+0	3.665-1
7.156-4	6.951+0	6.967+0	2.914+0	2.452+0	3.474+0	1.048+0	2.750+0		3.250+1	7.135+0	6.222+0
8.562-4	7.339+0	7.354+0	2.760+0	2.197+0	5.545+0	8.947-2	2.750+0		3.897+1	1.638+0	5.610-1
9.177-4	6.511+0	6.532+0	2.389+0	2.049+0	3.234+0	7.191-2	2.750+0		2.287+1	1.258+0	5.229-1
1.059-3	8.273+0	8.293+0	2.448+0	2.115+0	3.257+0	7.520-2	2.750+0		2.305+1	1.252+0	5.316-1
1.307-3	6.899+0	6.921+0	2.328+0	2.044+0	2.666+0	1.797-1	2.750+0		1.973+1	1.994+0	1.336+0
1.581-3	9.940+0	9.965+0	2.038+0	1.809+0	2.153+0	1.378-1	2.750+0		1.588+1	1.774+0	1.170+0
1.892-3	1.610+0	1.613+0	2.024+0	1.751+0	2.206+0	3.288-1	2.750+0		1.763+1	3.534+0	2.834+0
2.208-3	3.689+0	3.713+0	2.090+0	1.976+0	2.060+0	8.011-2	2.750+0		1.462+1	1.209+0	6.633-1
2.561-3	1.104+0	1.107+0	1.875+0	1.635+0	1.611+0	3.922-1	2.750+0		1.398+1	4.319+0	3.699+0
2.940-3	1.225+0	1.228+0	1.624+0	1.477+0	1.646+0	1.168-1	2.751+0		1.242+1	1.796+0	1.222+0
3.345-3	1.352+0	1.356+0	1.436+0	1.357+0	1.261+0	1.518-1	2.751+0		9.617+0	2.270+0	1.753+0
3.773-3	1.398+0	1.402+0	1.448+0	1.277+0	1.580+0	1.355-1	2.751+0		1.191+1	2.260+0	1.618+0
4.234-3	1.580+0	1.584+0	1.282+0	1.142+0	1.270+0	1.302-1	2.751+0		9.727+0	2.354+0	1.758+0
4.767-3	1.620+0	1.625+0	1.250+0	1.128+0	1.079+0	1.401-1	2.751+0		8.476+0	2.477+0	1.941+0
5.227-3	1.657+0	1.671+0	1.215+0	1.109+0	9.560+0	9.899-2	2.752+0		7.465+0	1.884+0	1.410+0
1.025-2	1.697+0	1.701+0	1.139+0	1.039+0	8.465+0	9.695-2	2.752+0		7.736+0	1.838+0	1.406+0
1.511-2	2.714+0	2.718+0	1.182+0	1.098+0	7.402+0	9.408-2	2.753+0		6.884+0	1.767+0	1.379+0
2.091-2	2.732+0	2.735+0	1.171+0	1.097+0	6.447+0	9.103-2	2.754+0		5.977+0	1.694+0	1.347+0
2.645-2	2.745+0	2.750+0	1.165+0	1.096+0	5.594+0	8.787-2	2.755+0		5.030+0	1.621+0	1.312+0
3.267-2	2.759+0	2.763+0	1.152+0	1.094+0	4.690+0	8.436-2	2.756+0		3.994+0	1.546+0	1.269+0
3.953-2	2.770+0	2.775+0	1.144+0	1.033+0	4.336+0	8.049-2	2.759+0		2.846+0	1.470+0	1.219+0
4.707+0	2.780+0	2.787+0	1.136+0	1.091+0	3.884+0	7.567-2	2.759+0	5.583+3	1.796+0	1.381+0	1.152+0
5.751+0	2.790+0	2.796+0	1.131+0	1.086+0	3.309+0	6.945-2	2.761+0	6.398+2	1.552+0	1.269+0	1.064+0
7.002+0	2.799+0	2.795+0	1.126+0	1.085+0	2.779+0	6.257-2	2.763+0	6.398+2	1.347+0	1.135+0	9.940+0
8.352+0	2.808+0	2.797+0	1.120+0	1.082+0	2.298+0	5.481-2	2.766+0	9.895+2	1.116+0	9.933+0	8.887+0
9.989+0	2.816+0	2.807+0	1.099+0	1.053+0	1.927+0	5.445-2	2.770+0	2.059+0	9.835+0	9.900+0	8.601+0
1.307-1	2.834+0	2.819+0	1.077+0	9.766+0	1.718+0	6.693-2	2.778+0	4.466+0	1.012+0	1.244+0	1.108+0
1.690-1	2.824+0	2.810+0	1.000+0	9.106+0	1.530+0	7.963-2	2.784+0	6.661+0	1.041+0	1.506+0	1.364+0
2.075-1	2.806+0	2.809+0	9.812+0	6.803+0	1.463+0	9.229-2	2.789+0	7.696+0	1.120+0	1.785+0	1.942+0
2.417-1	2.097+0	2.495+0	9.655+0	6.549+0	1.415+0	1.082-1	2.795+0	8.596+0	1.221+0	2.109+0	1.942+0
2.710-1	2.125+0	2.570+0	9.533+0	6.340+0	1.376+0	1.212-1	2.799+0	9.337+0	1.305+0	2.393+0	2.205+0
3.040-1	2.172+0	2.666+0	9.324+0	6.027+0	1.329+0	1.401-1	2.805+0	1.024+0	1.428+0	2.800+0	2.604+0
3.345-1	2.250+0	2.825+0	8.965+0	5.727+0	1.266+0	1.693-1	2.812+0	1.142+0	1.621+0	3.498+0	3.271+0
3.773-1	2.350+0	3.001+0	8.592+0	5.982+0	1.214+0	2.111-1	2.820+0	1.269+0	2.240+0	4.534+0	4.260+0
4.234-1	2.458+0	3.074+0	8.017+0	6.058+0	1.268+0	3.696-1	2.833+0	1.457+0	6.778+0	8.343+0	7.942+0
5.125+0	2.658+0	3.388+0	7.619+0	5.274+0	1.372+0	6.298+0	2.851+0	1.579+0	1.070+0	1.502+0	1.427+0
6.325+0	2.727+0	3.437+0	7.426+0	4.766+0	1.473+0	6.052+0	2.872+0	1.627+0	1.272+0	2.166+0	2.081+0

04/12/76

ENDL 175 Group Neutron Constants

94-Pu-240

ATOMIC WEIGHT 2.4005+2				DENSITY 1.9582+1 GRAMS/CC							ENERGY DEPOSIT (MEV)	
ENERGY	TOTAL (CM)			CROSS SECTION (BARNs)							TOTAL	LOCAL
MEV	TOTAL TRANSPORT			TOTAL	ELASTIC	ABSORPTN	FISSION	MU-BAR	REMAINDER	GAM-PROD		
7.527+1	2.696+0	3.364+0	7.513+0	4.503+0	1.421+1	1.191+0	2.894+0	1.677+0	1.504+0	1.803+1	2.877+1	2.740+1
8.834+1	2.658+0	3.306+0	7.591+0	4.277+0	1.331+1	1.451+0	2.917+0	1.730+0	1.686+0	1.834+1	3.457+1	3.303+1
1.025+0	2.737+0	3.404+0	7.401+0	4.033+0	1.230+1	1.520+0	2.943+0	1.725+0	1.737+0	1.737+0	3.726+1	3.548+1
1.176+0	2.843+0	3.622+0	7.124+0	3.774+0	1.120+1	1.551+0	2.970+0	1.696+0	1.758+0	1.758+0	3.951+1	3.761+1
1.330+0	2.933+0	3.839+0	6.965+0	3.576+0	1.003+1	1.585+0	2.999+0	1.644+0	1.779+0	1.779+0	4.164+1	3.963+1
1.511+0	2.995+0	4.041+0	6.762+0	3.454+0	8.785+2	1.620+0	3.030+0	1.599+0	1.803+1	1.803+1	4.347+1	4.136+1
1.694+0	3.043+0	4.213+0	6.552+0	3.369+0	7.468+2	1.658+0	3.063+0	1.552+0	1.828+1	1.828+1	4.519+1	4.299+1
1.881+0	3.077+0	4.387+0	6.362+0	3.320+0	6.189+2	1.693+0	3.098+0	1.508+0	1.838+1	1.838+1	4.663+1	4.435+1
2.074+0	3.071+0	4.510+0	6.199+0	3.345+0	5.703+2	1.693+0	3.130+0	1.500+0	1.824+1	1.824+1	4.857+1	4.627+1
2.305+0	3.043+0	4.589+0	6.065+0	3.415+0	5.374+2	1.686+0	3.163+0	1.500+0	1.805+1	1.805+1	5.080+1	4.856+1
2.530+0	3.010+0	4.668+0	6.726+0	3.499+0	5.047+2	1.679+0	3.195+0	1.500+0	1.787+1	1.787+1	5.304+1	5.090+1
2.741+0	2.975+0	4.700+0	6.457+0	3.589+0	4.682+2	1.671+0	3.231+0	1.500+0	1.769+1	1.769+1	5.459+1	5.226+1
3.011+0	2.943+0	4.752+0	6.361+0	3.676+0	4.292+2	1.662+0	3.271+0	1.500+0	1.743+1	1.743+1	5.390+1	5.157+1
3.267+0	2.913+0	4.804+0	6.251+0	3.759+0	3.900+2	1.653+0	3.310+0	1.500+0	1.706+1	1.706+1	5.326+1	5.091+1
3.533+0	2.880+0	4.873+0	6.101+0	3.846+0	3.492+2	1.633+0	3.351+0	1.500+0	1.675+1	1.675+1	5.238+1	5.003+1
3.811+0	2.866+0	4.931+0	5.956+0	3.929+0	3.101+2	1.606+0	3.391+0	1.500+0	1.644+1	1.644+1	5.141+1	4.905+1
4.069+0	2.863+0	4.995+0	5.857+0	3.969+0	2.913+2	1.577+0	3.439+0	1.500+0	1.618+1	1.618+1	5.065+1	4.828+1
4.336+0	2.856+0	4.994+0	5.756+0	3.995+0	2.794+2	1.545+0	3.492+0	1.500+0	1.590+1	1.590+1	4.992+1	4.752+1
4.704+0	2.869+0	5.061+0	5.654+0	4.017+0	2.682+2	1.515+0	3.541+0	1.500+0	1.576+1	1.576+1	4.925+1	4.683+1
4.991+0	2.904+0	5.208+0	5.553+0	3.991+0	2.561+2	1.483+0	3.595+0	1.474+0	1.557+1	1.557+1	4.892+1	4.646+1
5.353+0	2.955+0	5.324+0	5.453+0	3.934+0	2.436+2	1.470+0	3.651+0	1.424+0	1.534+1	1.534+1	4.787+1	4.546+1
5.650+0	2.952+0	5.258+0	5.352+0	3.875+0	2.306+2	1.590+0	3.709+0	1.372+0	1.645+1	1.645+1	4.726+1	4.569+1
6.042+0	2.972+0	5.239+0	5.251+0	3.789+0	2.173+2	1.722+0	3.768+0	1.292+0	1.706+1	1.706+1	4.605+1	4.524+1
6.397+0	3.016+0	5.266+0	5.151+0	3.695+0	2.043+2	1.843+0	3.826+0	1.166+0	1.717+1	1.717+1	4.595+1	4.495+1
6.737+0	3.071+0	5.308+0	5.046+0	3.567+0	1.895+2	1.990+0	3.891+0	1.029+0	1.690+1	1.690+1	5.003+1	5.130+1
7.156+0	3.130+0	5.351+0	4.931+0	3.450+0	1.743+2	2.168+0	3.953+0	8.974+0	1.833+1	1.833+1	5.033+1	5.056+1
7.510+0	3.185+0	5.374+0	4.826+0	3.342+0	1.602+2	2.219+0	4.010+0	7.826+0	1.911+1	1.911+1	5.238+1	5.052+1
7.948+0	3.243+0	5.403+0	4.721+0	3.232+0	1.488+2	2.292+0	4.067+0	7.066+0	1.978+1	1.978+1	5.550+1	5.256+1
8.322+0	3.313+0	5.448+0	4.616+0	3.107+0	1.431+2	2.276+0	4.133+0	7.156+0	1.955+1	1.955+1	5.840+1	5.343+1
8.787+0	3.383+0	5.496+0	4.511+0	2.987+0	1.371+2	2.286+0	4.197+0	7.280+0	1.949+1	1.949+1	6.122+1	5.419+1
9.177+0	3.447+0	5.539+0	4.406+0	2.883+0	1.322+2	2.239+0	4.263+0	7.406+0	1.939+1	1.939+1	6.790+1	6.461+1
9.665+0	3.515+0	5.581+0	4.301+0	2.776+0	1.263+2	2.219+0	4.334+0	7.541+0	1.926+1	1.926+1	6.860+1	6.544+1
1.012+1	3.568+0	5.620+0	4.196+0	2.697+0	1.206+2	2.199+0	4.406+0	7.672+0	1.911+1	1.911+1	6.900+1	6.579+1
1.058+1	3.615+0	5.670+0	4.091+0	2.630+0	1.150+2	2.180+0	4.478+0	7.800+0	1.894+1	1.894+1	6.927+1	6.602+1
1.101+1	3.652+0	5.713+0	3.986+0	2.561+0	1.090+2	2.160+0	4.555+0	7.936+0	1.874+1	1.874+1	6.929+1	6.600+1
1.155+1	3.670+0	5.755+0	3.881+0	2.509+0	1.029+2	2.159+0	4.633+0	8.000+0	1.797+1	1.797+1	6.957+1	6.619+1
1.199+1	3.685+0	5.793+0	3.776+0	2.457+0	9.846+2	2.175+0	4.709+0	7.877+0	1.766+1	1.766+1	7.039+1	6.703+1
1.250+1	3.718+0	5.874+0	3.671+0	2.500+0	9.510+2	2.193+0	4.795+0	7.449+0	1.716+1	1.716+1	7.134+1	6.803+1
1.307+1	3.714+0	5.919+0	3.566+0	2.515+0	9.184+2	2.210+0	4.879+0	7.183+0	1.695+1	1.695+1	7.174+1	6.843+1
1.354+1	3.707+0	5.951+0	3.461+0	2.535+0	8.936+2	2.223+0	4.942+0	6.956+0	1.702+1	1.702+1	7.198+1	6.866+1
1.386+1	3.701+0	5.989+0	3.356+0	2.552+0	8.751+2	2.233+0	4.990+0	6.787+0	1.717+1	1.717+1	7.213+1	6.881+1
1.413+1	3.698+0	5.944+0	3.251+0	2.577+0	8.581+2	2.242+0	5.033+0	6.631+0	1.790+1	1.790+1	7.213+1	6.882+1
1.441+1	3.671+0	5.940+0	3.146+0	2.604+0	8.409+2	2.251+0	5.077+0	6.519+0	1.857+1	1.857+1	7.106+1	6.875+1
1.468+1	3.634+0	5.900+0	3.041+0	2.643+0	8.165+2	2.264+0	5.110+0	6.572+0	1.869+1	1.869+1	7.170+1	6.840+1
1.519+1	3.590+0	5.860+0	2.936+0	2.685+0	7.831+2	2.282+0	5.225+0	6.662+0	1.890+1	1.890+1	7.134+1	6.802+1
1.575+1	3.553+0	5.811+0	2.831+0	2.728+0	7.472+2	2.289+0	5.317+0	6.757+0	1.884+1	1.884+1	7.078+1	6.744+1
1.635+1	3.552+0	5.920+0	2.726+0	2.772+0	7.107+2	2.231+0	5.410+0	6.895+0	1.838+1	1.838+1	6.914+1	6.583+1
1.692+1	3.556+0	6.039+0	2.621+0	2.815+0	6.736+2	2.178+0	5.494+0	6.994+0	1.783+1	1.783+1	6.738+1	6.448+1
1.750+1	3.546+0	6.107+0	2.516+0	2.859+0	6.357+2	2.161+0	5.603+0	6.890+0	1.758+1	1.758+1	6.663+1	6.333+1
1.813+1	3.521+0	6.133+0	2.411+0	2.896+0	5.972+2	2.191+0	5.701+0	6.685+0	1.759+1	1.759+1	6.674+1	6.341+1
1.875+1	3.472+0	6.112+0	2.306+0	2.958+0	5.589+2	2.259+0	5.852+0	5.106+0	1.802+1	1.802+1	6.605+1	6.464+1
2.000+1												
RESONANCE INTEGRALS				1.019+1	1.047+1	9.123+0	9.876+0	6.135+0	6.313+0	4		
MAXWELLIAN AVERAGES				2.796+1	2.882+1	2.749+1	5.476+1	2.750+0	1.900+1	3		
1/E AVERAGES				5.819+1	5.981+1	5.212+1	5.642+1	3.395+0	3.505+0	3.606+1	3	
FISSION AVERAGES				7.319+1	4.423+0	8.937+0	1.342+1	3.174+0	1.464+0	1.492+1	1	
FISSION AVERAGES				5.464+1	2.563+0	8.709+0	2.235+0	5.001+0	1.772+1	1.756+1	1	

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ENDL 175 Group Neutron Constants

94-Pu-241

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ENDL 175 Group Neutron Constants

94-Pu-241

ATOMIC WEIGHT 241.332				DENSITY 1.9770				GRAMS/CC					
ENERGY	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARN)								ENERGY DEPOSIT (MEV)	
MEV		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
1.307-9	5.432-2	5.432-2	3.642-3	3.689-3	1.000-1	1.205-3	2.473-3	2.870-0	0	2.794-4	1.229-2	1.159-2	
5.227-9	1.022-2	1.022-2	1.982-3	1.982-3	1.000-1	5.905-2	1.382-3	2.870-0	0	1.482-4	1.275-2	1.204-2	
2.091-8	1.455-2	1.455-2	1.392-3	1.392-3	1.000-1	3.945-2	9.872-2	2.870-0	0	1.044-4	1.296-2	1.225-2	
3.267-8	1.736-2	1.736-2	1.166-3	1.166-3	1.000-1	3.287-2	8.277-2	2.870-0	0	8.732-3	1.297-2	1.226-2	
4.704-6	2.160-2	2.160-2	9.375-2	9.375-2	1.000-1	2.630-2	6.645-2	2.870-0	0	7.003-3	1.295-2	1.224-2	
8.322-6	2.335-2	2.335-2	6.673-2	6.673-2	1.000-1	2.453-2	6.120-2	2.870-0	0	6.476-3	1.290-2	1.221-2	
1.307-7	1.949-2	1.949-2	1.039-3	1.039-3	1.000-1	2.919-2	7.370-2	2.870-0	0	7.769-3	1.286-2	1.228-2	
1.862-7	1.051-2	1.051-2	1.926-3	1.926-3	1.000-1	5.473-2	1.369-3	2.870-0	0	1.447-4	1.298-2	1.228-2	
2.561-7	1.157-2	1.157-2	1.751-3	1.751-3	1.000-1	4.975-2	1.244-3	2.870-0	0	1.315-4	1.299-2	1.227-2	
3.345-7	4.398-2	4.398-2	6.605-2	6.605-2	1.000-1	1.287-2	3.218-2	2.870-0	0	3.403-3	1.277-2	1.207-2	
4.234-7	1.401-2	1.401-2	1.445-3	1.445-3	1.000-1	3.844-2	9.510-2	2.870-0	0	1.016-3	1.215-2	1.149-2	
5.123-7	2.729-2	2.729-2	7.422-2	7.422-2	1.000-1	1.886-2	4.596-2	2.870-0	0	4.850-3	1.132-2	1.070-2	
7.527-7	3.513-2	3.513-2	5.515-2	5.515-2	1.000-1	1.348-2	3.417-2	2.870-0	0	3.597-3	1.083-2	1.024-2	
1.176-6	3.639-2	3.639-2	5.641-2	5.641-2	1.000-1	1.300-2	3.266-2	2.870-0	0	3.454-3	1.072-2	1.014-2	
1.511-6	3.663-2	3.663-2	5.629-2	5.629-2	1.000-1	1.302-2	3.226-2	2.870-0	0	3.421-3	1.067-2	1.008-2	
2.091-6	3.400-2	3.400-2	5.058-2	5.058-2	1.000-1	1.425-2	3.533-2	2.870-0	0	3.745-3	1.084-2	1.024-2	
2.741-6	2.725-2	2.725-2	7.433-2	7.433-2	1.000-1	1.839-2	4.595-2	2.870-0	0	4.853-3	1.130-2	1.068-2	
3.533-6	5.786-2	5.786-2	3.500-2	3.500-2	1.000-1	9.715-2	2.429-2	2.870-0	0	2.568-3	1.268-2	1.199-2	
4.704-6	7.190-2	7.190-2	1.130-2	1.130-2	1.000-1	7.759-2	1.941-2	2.870-0	0	2.052-3	1.259-2	1.190-2	
5.658-6	4.576-2	4.576-2	4.476-2	4.476-2	1.000-1	1.218-2	3.103-2	2.870-0	0	3.266-3	1.204-2	1.213-2	
6.731-6	6.124-2	6.124-2	8.125-2	8.125-2	1.000-1	9.110-2	2.296-2	2.870-0	0	2.462-3	1.269-2	1.199-2	
8.322-6	7.874-2	7.874-2	2.572-2	2.572-2	1.000-1	7.074-2	1.765-2	2.870-0	0	1.867-3	1.254-2	1.185-2	
9.620-6	7.912-2	7.912-2	2.562-2	2.562-2	1.000-1	7.069-2	1.753-2	2.870-0	0	1.856-3	1.252-2	1.183-2	
1.101-5	1.291-1	1.291-1	1.581-2	1.581-2	1.000-1	4.196-1	1.049-2	2.870-0	0	1.109-3	1.222-2	1.155-2	
1.307-5	1.365-1	1.365-1	1.464-2	1.464-2	1.000-1	3.953-1	9.893-1	2.870-0	0	1.045-3	1.218-2	1.151-2	
1.468-5	6.341-2	6.341-2	3.194-2	3.194-2	1.000-1	8.839-1	2.210-2	2.870-0	0	2.337-3	1.265-2	1.195-2	
1.581-5	4.863-2	4.863-2	4.165-2	4.165-2	1.000-1	1.157-2	2.907-2	2.870-0	0	3.070-3	1.276-2	1.206-2	
1.759-5	8.083-2	8.083-2	2.506-2	2.506-2	1.000-1	6.873-1	7.716-2	2.870-0	0	1.817-3	1.253-2	1.186-2	
1.882-5	2.233-1	2.234-1	9.069-1	9.069-1	1.000-1	2.305-1	5.763-1	2.870-0	0	6.094-2	1.162-2	1.098-2	
2.075-5	2.878-1	2.879-1	7.037-1	7.037-1	1.000-1	1.725-1	4.312-1	2.870-0	0	4.560-2	1.120-2	1.059-2	
2.277-5	2.800-1	2.801-1	7.233-1	7.233-1	1.000-1	1.781-1	4.452-1	2.870-0	0	4.708-2	1.125-2	1.063-2	
2.417-5	2.481-1	2.482-1	8.162-1	8.162-1	1.000-1	2.046-1	5.116-1	2.870-0	0	5.410-2	1.146-2	1.083-2	
2.561-5	2.221-1	2.222-1	5.119-1	5.119-1	1.000-1	2.320-1	5.799-1	2.870-0	0	6.132-2	1.162-2	1.099-2	
2.710-5	2.005-1	2.005-1	1.010-2	1.010-2	1.000-1	2.601-1	6.501-1	2.870-0	0	6.875-2	1.176-2	1.112-2	
2.862-5	1.866-1	1.866-1	1.085-2	1.085-2	1.000-1	2.816-1	7.039-1	2.870-0	0	7.443-2	1.185-2	1.120-2	
2.940-5	1.766-1	1.766-1	1.147-2	1.147-2	1.000-1	2.951-1	7.478-1	2.870-0	0	7.938-2	1.192-2	1.126-2	
3.095-5	1.715-1	1.715-1	1.181-2	1.181-2	1.000-1	3.089-1	7.722-1	2.870-0	0	8.165-2	1.195-2	1.130-2	
3.345-5	1.685-1	1.685-1	1.202-2	1.202-2	1.000-1	3.149-1	7.874-1	2.870-0	0	8.325-2	1.197-2	1.134-2	
3.601-5	1.659-1	1.660-1	1.089-2	1.089-2	1.000-1	2.827-1	7.056-1	2.870-0	0	7.472-2	1.186-2	1.121-2	
3.866-5	2.096-1	2.096-1	9.664-1	9.664-1	1.000-1	2.475-1	6.188-1	2.870-0	0	6.544-2	1.170-2	1.106-2	
4.048-5	2.225-1	2.225-1	9.104-1	9.104-1	1.000-1	2.315-1	5.789-1	2.870-0	0	6.121-2	1.162-2	1.098-2	
4.234-5	2.293-1	2.300-1	9.005-1	9.005-1	1.000-1	2.231-1	5.576-1	2.870-0	0	5.898-2	1.157-2	1.094-2	
4.329-5	2.409-1	2.410-1	8.406-1	8.406-1	1.000-1	2.116-1	5.290-1	2.870-0	0	5.593-2	1.150-2	1.087-2	
4.619-5	2.532-1	2.533-1	7.997-1	7.997-1	1.000-1	1.999-1	4.958-1	2.870-0	0	5.295-2	1.142-2	1.080-2	
4.717-5	2.526-1	2.537-1	7.693-1	7.693-1	1.000-1	1.909-1	4.773-1	2.870-0	0	5.047-2	1.136-2	1.073-2	
4.918-5	2.775-1	2.776-1	7.297-1	7.297-1	1.000-1	1.799-1	4.499-1	2.870-0	0	4.756-2	1.127-2	1.065-2	
5.123-5	2.864-1	2.865-1	7.072-1	7.072-1	1.000-1	1.732-1	4.341-1	2.870-0	0	4.586-2	1.122-2	1.060-2	
5.332-5	2.975-1	2.976-1	6.807-1	6.807-1	1.000-1	1.652-1	4.155-1	2.870-0	0	4.385-2	1.116-2	1.055-2	
5.654-5	3.072-1	3.074-1	6.592-1	6.592-1	1.000-1	1.568-1	4.004-1	2.870-0	0	4.222-2	1.110-2	1.049-2	
5.763-5	3.172-1	3.173-1	6.385-1	6.385-1	1.000-1	1.526-1	3.860-1	2.870-0	0	4.066-2	1.105-2	1.044-2	
6.097-5	3.207-1	3.206-1	6.316-1	6.316-1	1.000-1	1.505-1	3.811-1	2.870-0	0	4.014-2	1.103-2	1.042-2	
6.325-5	3.198-1	3.199-1	6.333-1	6.333-1	1.000-1	1.511-1	3.822-1	2.870-0	0	4.027-2	1.103-2	1.043-2	
6.597-5	3.191-1	3.193-1	6.346-1	6.346-1	1.000-1	1.515-1	3.831-1	2.870-0	0	4.037-2	1.103-2	1.043-2	
6.874-5	3.182-1	3.184-1	6.364-1	6.364-1	1.000-1	1.521-1	3.843-1	2.870-0	0	4.050-2	1.103-2	1.043-2	
7.034-5	3.173-1	3.175-1	6.392-1	6.392-1	1.000-1	1.527-1	3.855-1	2.870-0	0	4.064-2	1.104-2	1.043-2	
7.155-5	3.164-1	3.166-1	6.401-1	6.401-1	1.000-1	1.534-1	3.867-1	2.870-0	0	4.078-2	1.104-2	1.044-2	
7.267-5	3.153-1	3.154-1	6.424-1	6.424-1	1.000-1	1.541-1	3.893-1	2.870-0	0	4.095-2	1.105-2	1.044-2	
7.760-5	3.146-1	3.147-1	6.438-1	6.438-1	1.000-1	1.546-1	3.892-1	2.870-0	0	4.107-2	1.105-2	1.044-2	
7.908-5	3.139-1	3.140-1	6.453-1	6.453-1	1.000-1	1.551-1	3.902-1	2.870-0	0	4.118-2	1.105-2	1.045-2	
8.167-5	3.129-1	3.130-1	6.472-1	6.472-1	1.000-1	1.557-1	3.915-1	2.870-0	0	4.133-2	1.105-2	1.045-2	
8.431-5	3.117-1	3.118-1	6.497-1	6.497-1	1.000-1	1.565-1	3.932-1	2.870-0	0	4.152-2	1.106-2	1.045-2	
8.634-5	3.105-1	3.106-1	6.523-1	6.523-1	1.000-1	1.574-1	3.949-1	2.870-0	0	4.171-2	1.106-2	1.046-2	

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94-Pu-241

ATOMIC WEIGHT 241.133 2				DENSITY 1.9770 1 GRAMS/CC							ENERGY DEPOSIT (MEV)	
ENERGY	MEV	HF (CM)		CROSS SECTION (BARNES)							TOTAL	LOCAL
		TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	F ISSION	RU-BAR	REMAINDER	GAM-PROD.			
9.139-5	3.095	3.096	6.943	1.000	1.581	3.962	2.870	0	4.187	1.107	1.046	
9.396-5	3.086	3.086	6.965	1.000	1.589	3.976	2.870	0	4.203	1.107	1.046	
9.668-5	3.078	3.079	6.980	1.000	1.593	3.987	2.870	0	4.215	1.107	1.047	
9.911-5	3.074	3.075	6.989	1.000	1.597	3.992	2.870	0	4.221	1.107	1.047	
1.025-4	3.102	3.103	6.529	1.000	1.580	3.949	2.870	0	4.176	1.106	1.045	
1.101-4	3.145	3.145	6.441	1.000	1.555	3.887	2.870	0	4.110	1.103	1.042	
1.176-4	3.189	3.190	6.351	1.000	1.529	3.822	2.870	0	4.042	1.100	1.040	
1.250-4	3.235	3.238	6.258	1.000	1.502	3.756	2.870	0	3.974	1.097	1.037	
1.336-4	3.282	3.283	6.171	1.000	1.477	3.691	2.870	0	3.906	1.094	1.034	
1.406-4	3.335	3.337	6.072	1.000	1.449	3.623	2.870	0	3.831	1.091	1.031	
1.511-4	3.390	3.400	5.960	1.000	1.417	3.543	2.870	0	3.746	1.087	1.027	
1.601-4	3.450	3.461	5.854	1.000	1.386	3.468	2.870	0	3.666	1.083	1.023	
1.691-4	3.525	3.527	5.746	1.000	1.355	3.390	2.870	0	3.589	1.079	1.019	
1.789-4	3.593	3.596	5.634	1.000	1.323	3.311	2.870	0	3.500	1.074	1.015	
1.887-4	3.669	3.671	5.520	1.000	1.291	3.229	2.870	0	3.414	1.069	1.011	
1.988-4	3.749	3.751	5.402	1.000	1.257	3.145	2.870	0	3.325	1.064	1.006	
2.091-4	4.077	4.079	4.968	1.000	1.133	2.835	2.870	0	2.987	1.043	0.980	
2.741-4	5.120	5.124	4.290	1.000	0.987	2.352	2.870	0	2.485	1.002	0.940	
3.267-4	5.512	5.516	3.674	1.000	0.722	1.912	2.870	0	2.020	0.911	0.890	
3.811-4	7.117	7.124	2.866	1.000	0.520	1.321	2.870	0	1.394	0.802	0.801	
4.704-4	9.301	9.304	2.166	1.000	0.300	0.933	2.870	0	0.801	0.704	0.686	
4.951-4	1.024	1.025	1.978	1.000	0.278	0.702	2.870	0	0.780	0.694	0.640	
5.658-4	1.035	1.036	1.958	1.000	0.264	0.693	2.870	0	0.726	0.651	0.600	
6.042-4	1.042	1.043	1.944	1.000	0.267	0.685	2.870	0	0.712	0.622	0.573	
6.367-4	1.053	1.055	1.923	1.000	0.258	0.673	2.870	0	0.699	0.615	0.530	
7.155-4	1.074	1.075	1.886	1.000	0.262	0.697	2.870	0	0.674	0.609	0.552	
8.322-4	1.098	1.098	1.849	1.000	0.200	0.675	2.870	0	0.578	0.599	0.568	
9.177-4	1.125	1.122	1.803	1.000	0.035	0.605	2.870	0	0.678	0.102	0.780	
1.058-3	1.131	1.132	1.791	1.000	0.958	0.567	2.870	0	0.946	0.673	0.704	
1.307-3	1.138	1.140	1.779	1.000	0.878	0.519	2.870	0	0.852	0.606	0.748	
1.581-3	1.147	1.149	1.765	1.000	0.789	0.507	2.870	0	0.749	0.504	0.741	
1.882-3	1.157	1.159	1.751	1.000	0.687	0.510	2.870	0	0.636	0.443	0.732	
2.209-3	1.167	1.169	1.735	1.000	0.583	0.619	2.870	0	0.513	0.331	0.724	
2.561-3	1.178	1.181	1.718	1.000	0.519	0.682	2.870	0	0.394	0.108	0.714	
2.940-3	1.192	1.194	1.699	1.000	0.411	0.610	2.870	0	0.240	0.003	0.703	
3.345-3	1.206	1.208	1.680	1.000	0.295	0.534	2.870	0	0.090	0.988	0.692	
3.777-3	1.221	1.223	1.659	1.000	0.174	0.454	2.870	0	0.430	0.970	0.679	
4.234-3	1.256	1.254	1.617	1.000	0.950	0.273	2.870	0	0.612	0.914	0.632	
5.763-3	1.283	1.285	1.579	1.000	0.671	0.474	2.870	0	0.327	0.712	0.641	
7.527-3	1.320	1.323	1.539	1.000	0.285	0.565	2.870	0	0.009	0.500	0.513	
1.025-2	1.378	1.380	1.470	1.000	0.950	0.398	2.870	0	0.628	0.988	0.653	
1.513-2	1.434	1.437	1.412	1.000	0.700	0.340	2.870	0	0.349	0.979	0.614	
2.091-2	1.469	1.472	1.379	1.000	0.747	0.309	2.870	0	0.265	0.973	0.671	
2.646-2	1.481	1.484	1.358	1.000	0.726	0.297	2.870	0	0.181	0.992	0.697	
3.267-2	1.525	1.525	1.331	1.000	0.701	0.256	2.870	0	0.239	0.931	0.748	
3.953-2	1.571	1.570	1.309	1.000	0.590	0.248	2.870	0	0.297	0.930	0.725	
4.704-2	1.562	1.570	1.297	1.000	0.461	0.277	2.870	5.486-3	0.937	0.335	0.765	
5.761-2	1.581	1.583	1.281	1.000	0.895	0.222	2.870	2.763-2	0.811	0.273	0.761	
7.002-2	1.598	1.707	1.267	1.000	0.944	0.178	2.870	5.323-2	0.772	0.128	0.969	
8.322-2	1.612	1.727	1.257	1.000	0.786	0.130	2.870	0.812-2	0.788	0.209	0.928	
9.691-2	1.644	1.768	1.232	1.000	0.587	0.063	2.870	0.1296-1	0.589	0.307	0.894	
1.107-1	1.718	1.867	1.183	1.000	0.913	0.093	2.870	0.275-1	0.011	0.013	0.862	
1.620-1	1.770	1.974	1.144	1.000	0.711	0.040	2.870	0.902-1	0.012	0.021	0.871	
2.075-1	1.805	0.236	1.122	1.000	0.474	0.013	2.870	0.535-1	0.181	0.233	0.791	
2.417-1	1.843	0.210	1.099	1.000	0.154	0.096	2.870	0.627-1	0.161	0.293	0.775	
2.710-1	1.882	0.203	1.076	1.000	0.233	0.271	2.870	0.7380-1	0.106	0.294	0.770	
2.940-1	1.932	0.291	1.048	1.000	0.742	0.397	2.870	0.804-1	0.591	0.209	0.766	
3.345-1	2.002	0.247	1.012	1.000	0.772	0.338	2.870	0.9016-1	0.558	0.201	0.759	
3.777-1	2.081	0.255	0.934	1.000	0.910	0.295	2.870	0.9411-1	0.530	0.202	0.762	
4.234-1	2.197	0.274	0.916	1.000	0.289	0.282	2.870	0.9741-1	0.509	0.203	0.765	
5.123-1	2.309	0.298	0.771	1.000	0.725	0.073	2.870	0.3565-1	0.581	0.308	0.938	
6.325-1	2.335	0.296	0.453	1.000	0.268	0.661	2.870	0.5580-1	0.586	0.313	0.982	

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 241.033 2		DENSITY 1.9770 + 1 GRAMS/CC									
ENERGY	MFP (CM)	CROSS SECTION (BARNs)									
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	DEPOSIT (MEV)
7.527	2.484	0.3094	0.1533	0.4966	1.1498	3.0075	0.6372	1.632	3.310	3.153	
9.83	2.590	0.3216	0.1620	0.4444	1.107	3.535	0.3074	1.731	3.594	3.386	
1.025	2.635	0.3290	0.1685	0.4250	0.934	2.580	0.3052	1.750	3.723	3.546	
1.176	2.642	0.3392	0.1665	0.4171	0.9050	2.627	0.3074	1.776	3.845	3.661	
1.338	2.650	0.3503	0.1642	0.4088	0.8436	2.677	0.3105	1.792	3.976	3.783	
1.5	2.658	0.3635	0.1619	0.4040	0.7889	2.690	0.3134	1.810	4.019	3.822	
1.644	2.667	0.3759	0.1594	0.4013	0.7318	2.671	0.3165	1.829	4.090	3.791	
1.807	2.674	0.3896	0.1575	0.4013	0.6700	2.651	0.3198	1.844	4.155	3.754	
2.091	2.681	0.4026	0.1560	0.4099	0.6009	2.630	0.3233	1.820	4.209	3.688	
2.305	2.685	0.4158	0.1547	0.4209	0.5276	2.608	0.3270	1.787	4.251	3.614	
2.530	2.689	0.4285	0.1534	0.4318	0.4547	2.585	0.3306	1.755	4.292	3.542	
2.741	2.691	0.4339	0.1522	0.4438	0.3745	2.562	0.3347	1.719	4.332	3.463	
3.011	2.693	0.4451	0.1510	0.4551	0.2922	2.539	0.3391	1.693	4.371	3.387	
3.267	2.695	0.4573	0.1498	0.4662	0.2092	2.516	0.3434	1.668	4.409	3.310	
3.533	2.697	0.4704	0.1486	0.4769	0.1268	2.493	0.3480	1.643	4.446	3.246	
3.911	2.699	0.4841	0.1474	0.4874	0.0436	2.470	0.3525	1.618	4.482	3.177	
4.065	2.699	0.4894	0.1474	0.4866	0.2373	2.392	0.3574	1.641	4.435	3.375	
4.336	2.701	0.4915	0.1462	0.4957	0.2126	2.369	0.3627	1.624	4.428	3.315	
4.704	2.703	0.4938	0.1450	0.5039	0.1895	2.347	0.3677	1.617	4.420	3.185	
4.951	2.705	0.5122	0.1438	0.5285	0.1643	2.324	0.3731	1.605	4.405	3.207	
5.353	2.707	0.5165	0.1426	0.5468	0.1384	2.301	0.3787	1.600	4.393	3.256	
5.658	2.709	0.5192	0.1414	0.5611	0.1118	2.278	0.3845	1.625	4.381	3.444	
6.042	2.711	0.5233	0.1402	0.5729	0.0873	2.255	0.3900	1.629	4.374	3.827	
6.367	2.713	0.5273	0.1390	0.5820	0.0633	2.232	0.3950	1.635	4.367	4.267	
6.737	2.715	0.5312	0.1378	0.5883	0.0393	2.209	0.4007	1.641	4.359	4.644	
7.156	2.717	0.5351	0.1366	0.5927	0.0153	2.186	0.4065	1.647	4.351	4.837	
7.599	2.719	0.5390	0.1354	0.5971	0.0000	2.163	0.4124	1.653	4.343	5.024	
7.910	2.721	0.5428	0.1342	0.6015	0.0000	2.140	0.4182	1.659	4.335	5.156	
8.322	2.723	0.5466	0.1330	0.6059	0.0000	2.117	0.4240	1.665	4.327	5.283	
8.787	2.725	0.5504	0.1318	0.6103	0.0000	2.094	0.4298	1.671	4.319	5.408	
9.177	2.727	0.5542	0.1306	0.6147	0.0000	2.071	0.4356	1.677	4.311	5.529	
9.655	2.729	0.5580	0.1294	0.6191	0.0000	2.048	0.4414	1.683	4.303	5.657	
1.0124	2.731	0.5618	0.1282	0.6235	0.0000	2.025	0.4472	1.689	4.295	5.714	
1.0581	2.733	0.5656	0.1270	0.6279	0.0000	2.002	0.4530	1.695	4.287	5.788	
1.1011	2.735	0.5694	0.1258	0.6323	0.0000	1.979	0.4588	1.701	4.279	5.861	
1.1551	2.737	0.5732	0.1246	0.6367	0.0000	1.956	0.4646	1.707	4.271	5.934	
1.1991	2.739	0.5770	0.1234	0.6411	0.0000	1.933	0.4704	1.713	4.263	6.007	
1.2501	2.741	0.5808	0.1222	0.6455	0.0000	1.910	0.4762	1.719	4.255	6.080	
1.3071	2.743	0.5846	0.1210	0.6499	0.0000	1.887	0.4820	1.725	4.247	6.153	
1.3591	2.745	0.5884	0.1198	0.6543	0.0000	1.864	0.4878	1.731	4.239	6.226	
1.3861	2.747	0.5922	0.1186	0.6587	0.0000	1.841	0.4936	1.737	4.231	6.301	
1.4131	2.749	0.5960	0.1174	0.6631	0.0000	1.818	0.4994	1.743	4.223	6.374	
1.4411	2.751	0.5998	0.1162	0.6675	0.0000	1.795	0.5052	1.749	4.215	6.447	
1.4681	2.753	0.6036	0.1150	0.6719	0.0000	1.772	0.5110	1.755	4.207	6.520	
1.5191	2.755	0.6074	0.1138	0.6763	0.0000	1.749	0.5168	1.761	4.199	6.593	
1.5751	2.757	0.6112	0.1126	0.6807	0.0000	1.726	0.5226	1.767	4.191	6.666	
1.6331	2.759	0.6150	0.1114	0.6851	0.0000	1.703	0.5284	1.773	4.183	6.739	
1.6921	2.761	0.6188	0.1102	0.6895	0.0000	1.680	0.5342	1.779	4.175	6.812	
1.7521	2.763	0.6226	0.1090	0.6939	0.0000	1.657	0.5400	1.785	4.167	6.885	
1.8131	2.765	0.6264	0.1078	0.6983	0.0000	1.634	0.5458	1.791	4.159	6.958	
1.8751	2.767	0.6302	0.1066	0.7027	0.0000	1.611	0.5516	1.797	4.151	7.031	
2.0001											
RESONANCE INTEGRALS		9.682	2.1503	2.272	2.5845	2.6301	2.6137	3.0075	3.310	3.153	
MAXWELLIAN AVERAGES		1.297	3.1000	3.746	9.126	2.870	0.0	9.729	9.729	9.729	
1/E AVERAGES		5.532	0.5894	0.1298	1.339	2.980	0.3600	3.506	3.506	3.506	
FISSION AVERAGES		8.118	0.4841	0.1551	1.587	3.212	0.1564	1.648	1.648	1.648	
FUSION AVERAGES		5.937	0.3031	0.7120	3.211	0.533	0.7807	1.732	1.732	1.732	

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ATOMIC WEIGHT 242.07				DENSITY 1.987				GRAMS/CC			
ENERGY MEV	HFP (CM)		TOTAL	CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)		LOCAL
	TOTAL	TRANSPORT		ELASTIC	ABSORPTN	FISSION	MU-BAR	REMAINDER	GAM-PROD	TOTAL	
1.307-9	2.859	2.861	1.083	1.134	5.949	2.846	3	2.770	3.956	2.424	7.558
5.227-9	5.190	5.194	3.902	1.134	2.769	1.315	3	2.770	1.891	3.582	6.341
2.081-8	6.802	6.809	2.977	1.134	1.843	8.669	4	2.770	1.226	3.126	5.478
3.267-8	7.633	7.642	2.653	1.134	1.519	7.079	4	2.770	1.010	2.891	5.019
4.704-8	8.616	8.628	2.351	1.134	1.216	5.565	4	2.770	0.890	2.613	4.456
6.322-8	9.598	9.612	2.110	1.134	9.761	4.331	4	2.770	6.491	2.335	3.863
1.307-7	1.031	1.032	1.955	1.134	8.312	4.546	4	2.770	5.528	2.135	3.397
1.882-7	1.081	1.083	1.874	1.134	7.397	3.008	4	2.770	4.920	1.993	3.023
2.561-7	1.116	1.118	1.815	1.134	6.809	2.612	4	2.770	4.528	1.894	2.712
3.345-7	1.138	1.140	1.779	1.134	6.451	2.311	4	2.770	4.280	1.830	2.449
4.234-7	1.144	1.146	1.771	1.136	6.343	2.088	3	2.770	4.219	1.828	2.206
5.123-7	1.264	1.270	1.451	1.409	1.031	1.108	1	2.770	6.933	2.999	8.452
7.527-7	8.432	8.446	1.242	1.480	8.915	2.042	1	2.770	6.074	3.524	1.589
1.176-6	7.674	7.686	2.639	1.550	1.060	2.927	1	2.770	7.258	4.181	2.073
1.511-6	5.364	5.370	3.775	1.374	2.337	6.471	1	2.770	6.001	2.453	3.204
2.091-6	3.894	3.895	3.203	3.784	4.595	3.274	2	2.770	3.146	9.217	4.580
2.741-6	4.530	4.532	4.470	8.636	3.509	2.970	2	2.770	2.403	8.189	4.069
3.533-6	5.929	5.942	3.416	2.678	7.183	1.985	1	2.770	4.918	2.190	1.086
4.704-6	7.946	7.966	2.549	2.377	1.676	4.292	2	2.770	1.145	6.588	3.148
5.656-6	8.447	8.469	2.398	2.258	1.381	1.932	2	2.770	9.323	4.470	1.506
6.737-6	8.733	8.756	2.319	2.191	1.274	1.092	2	2.770	8.550	3.684	8.802
8.322-6	8.955	8.979	2.262	2.145	1.158	1.005	2	2.770	7.772	3.444	8.305
9.620-6	9.094	9.118	2.227	2.121	1.050	9.557	3	2.770	7.049	3.210	8.024
1.101-5	9.279	9.304	2.182	2.091	9.110	8.932	3	2.770	6.121	2.899	7.651
1.307-5	6.433	6.445	3.148	2.053	1.094	8.268	3	2.770	7.284	1.803	9.111
1.468-5	6.423	6.431	2.398	2.097	2.874	7.768	3	2.770	6.917	6.707	5.081
1.581-5	5.266	5.282	2.126	2.053	7.277	7.241	3	2.770	4.890	2.387	6.568
1.758-5	9.692	9.718	2.093	2.018	7.082	6.696	3	2.770	4.757	2.331	5.991
1.863-5	9.872	9.899	2.052	1.982	6.878	6.122	3	2.770	4.617	2.270	5.580
2.075-5	4.199	4.204	1.823	1.987	2.830	6.201	2	2.770	1.866	3.207	2.404
2.277-5	6.356	6.368	3.186	2.117	1.059	1.019	1	2.770	7.116	2.297	5.978
2.417-5	9.606	9.631	2.108	2.038	6.139	5.383	2	2.770	4.749	1.012	8.320
2.561-5	9.719	9.745	2.084	2.015	6.005	8.554	2	2.770	4.601	9.435	1.675
2.710-5	9.638	9.654	2.059	1.992	5.886	7.702	2	2.770	4.448	8.711	6.995
2.962-5	9.931	9.958	2.039	1.975	5.760	7.049	2	2.770	4.311	8.145	6.462
3.240-5	1.003	1.006	2.019	1.957	5.652	6.378	2	2.770	4.211	7.552	5.905
3.099-5	1.020	1.023	1.986	1.926	5.465	5.231	2	2.770	4.066	6.511	4.926
3.345-5	1.042	1.045	1.943	1.887	5.235	3.810	2	2.770	3.920	5.170	3.665
3.601-5	1.066	1.069	1.900	1.847	4.995	2.336	2	2.770	3.788	3.716	2.299
3.866-5	9.667	9.690	2.095	1.807	2.842	3.413	2	2.770	1.914	1.001	3.046
4.046-5	3.955	3.959	5.121	1.901	3.187	1.329	1	2.770	2.143	4.387	1.202
4.234-5	1.084	1.087	1.869	1.820	4.823	1.436	3	2.770	3.217	1.450	1.437
4.329-5	1.143	1.146	1.772	1.718	5.375	1.284	3	2.770	3.583	1.070	1.355
4.619-5	1.210	1.213	1.674	1.614	5.933	1.780	3	2.770	3.958	1.994	1.989
4.717-5	1.288	1.289	1.576	1.510	6.241	2.911	3	2.770	4.371	2.451	3.457
4.918-5	1.421	1.425	1.425	1.272	1.526	7.926	3	2.770	1.011	6.478	1.040
5.123-5	6.812	6.824	2.973	2.011	2.969	4.965	1	2.770	6.399	2.947	3.122
5.332-5	1.825	1.829	2.109	3.049	2.030	2.157	1	2.770	2.026	3.652	2.647
5.654-5	5.774	5.790	3.507	3.400	1.066	7.560	3	2.770	7.141	1.951	4.030
5.763-5	6.362	7.001	2.901	2.848	5.218	7.391	3	2.770	3.523	1.402	4.764
6.097-5	7.911	7.932	2.560	2.515	4.471	7.177	3	2.770	3.024	1.425	5.241
6.326-5	6.607	6.631	2.353	2.310	4.271	7.001	3	2.770	2.690	1.493	5.563
6.557-5	9.004	9.028	2.294	2.133	1.157	6.967	3	2.770	7.744	3.187	5.709
6.674-5	1.352	1.353	1.498	2.453	1.043	2.685	3	2.770	5.392	2.320	8.431
7.034-5	8.212	8.235	2.456	2.430	3.594	6.502	3	2.770	2.366	1.247	4.929
7.155-5	8.503	8.526	2.382	2.346	3.548	6.313	3	2.770	2.404	1.266	4.956
7.527-5	8.688	8.710	2.332	2.296	3.490	6.075	3	2.770	2.304	1.261	4.871
7.780-5	8.799	8.823	2.302	2.267	3.458	5.929	3	2.770	2.239	1.257	4.816
7.908-5	8.917	8.941	2.271	2.237	3.418	5.781	3	2.770	2.314	1.251	4.759
8.167-5	9.081	9.106	2.230	2.196	3.369	5.727	3	2.770	2.280	1.248	4.680
8.431-5	7.507	7.523	2.698	2.142	5.553	5.277	3	2.770	3.697	1.076	3.695
8.834-5	5.608	5.618	3.611	2.733	1.338	5.069	3	2.770	6.902	1.995	2.630

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.4207 2			DENSITY 1.9847 1 GRAMS/CC									
ENERGY	MFP (CM)		CROSS SECTION (BARNES)									
			ENERGY DEPOSIT (MEV)									
			TOTAL	ELASTIC	AUSORP	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.10E-1	9.203	1.208	2.201	2.168	3.167	4.858	2.770	0	2.141	1.155	4.127	2
9.30E-1	9.441	9.467	2.145	2.113	3.127	4.644	2.770	0	2.112	1.156	4.048	2
9.60E-1	9.630	9.657	2.103	2.072	3.037	4.482	2.770	0	2.091	1.157	3.984	2
9.80E-1	9.899	9.926	2.046	2.015	3.006	4.261	2.770	0	2.062	1.158	3.894	2
1.00E-1	1.318	1.320	2.037	2.004	2.997	4.233	2.770	0	2.073	2.764	3.569	1
1.10E-1	1.547	1.561	2.342	2.314	2.819	2.060	2.770	0	1.668	0.775	1.645	2
1.30E-1	1.922	1.948	2.112	2.045	2.687	1.597	2.770	0	1.798	0.663	1.375	2
1.50E-1	2.673	2.678	2.519	2.723	2.778	1.434	2.770	0	1.857	2.044	4.862	1
1.70E-1	3.224	3.249	2.196	2.170	2.551	2.915	2.770	0	1.717	0.849	2.484	2
1.90E-1	3.217	3.222	2.266	2.367	2.659	3.316	2.770	0	1.769	2.139	9.933	3
2.10E-1	4.744	4.768	2.316	2.209	2.742	3.767	2.770	0	1.850	0.128	2.301	2
2.30E-1	5.137	5.156	2.499	2.157	3.313	4.190	2.770	0	2.206	1.709	3.150	2
2.50E-1	5.294	5.310	2.511	2.108	3.307	4.526	2.770	0	1.557	0.678	2.059	2
2.70E-1	5.775	5.802	2.702	2.046	2.306	5.074	2.770	0	1.570	1.037	4.579	2
2.90E-1	6.036	6.039	2.455	1.932	2.306	5.533	2.770	0	1.573	1.145	5.291	2
3.10E-1	6.559	6.562	2.680	2.043	3.455	6.005	2.770	0	2.298	1.263	8.153	3
3.30E-1	6.976	6.991	2.944	2.355	5.893	7.749	2.770	0	3.925	1.060	4.925	2
3.50E-1	7.251	7.277	3.247	2.761	1.002	1.129	2.770	0	6.672	1.301	2.588	2
3.70E-1	7.438	7.449	4.564	3.663	6.785	2.181	2.770	0	4.528	1.424	8.942	2
3.90E-1	7.588	7.601	3.074	2.702	3.707	1.230	2.770	0	2.474	1.855	7.485	2
4.10E-1	7.744	7.774	2.716	2.290	4.252	5.330	2.770	0	2.832	1.872	3.677	2
4.30E-1	7.883	7.911	2.634	2.442	2.111	2.024	2.770	0	4.711	1.720	1.492	1
4.50E-1	8.250	8.262	3.888	3.158	6.981	1.447	2.770	0	4.653	1.985	7.023	2
4.70E-1	8.676	8.686	2.638	2.442	2.111	2.024	2.770	0	1.421	5.353	1.285	1
4.90E-1	9.570	9.593	3.761	3.232	4.030	6.137	2.770	0	2.685	5.915	3.184	2
5.10E-1	9.791	9.805	4.751	4.327	3.924	4.198	2.770	0	2.613	4.388	1.570	2
5.30E-1	9.743	9.755	4.633	4.274	3.688	4.227	2.770	0	2.456	4.163	1.703	2
5.50E-1	9.539	9.551	4.611	4.126	3.350	4.260	2.770	0	2.231	3.971	1.794	2
5.70E-1	9.659	9.713	3.554	3.250	2.937	4.316	2.770	0	1.956	4.402	2.282	2
5.90E-1	9.015	9.037	2.247	1.995	2.508	4.392	2.770	0	1.671	6.009	3.673	2
6.10E-1	9.577	9.600	2.501	1.097	2.039	4.475	2.770	0	1.359	8.569	1.646	2
6.30E-1	9.639	9.644	2.36	1.074	1.612	4.566	2.770	0	1.075	7.296	6.936	2
6.50E-1	9.659	9.663	27	1.074	1.465	4.684	2.770	0	9.772	6.795	7.174	2
6.70E-1	9.677	9.681	2	1.074	1.337	4.770	2.770	0	9.931	6.350	7.416	2
6.90E-1	9.691	9.695	1.56	1.074	1.233	4.884	2.770	0	8.240	5.986	7.660	2
7.10E-1	9.699	9.703	1.92	1.074	1.180	5.005	2.771	0	7.887	5.808	7.887	2
7.30E-1	9.707	9.711	1.187	1.074	1.124	5.133	2.771	0	7.519	5.621	8.130	2
7.50E-1	9.724	9.729	1.174	1.073	1.005	5.241	2.771	0	6.728	5.215	8.676	2
7.70E-1	9.747	9.752	1.159	1.074	8.414	5.914	2.771	0	5.645	4.656	9.592	2
7.90E-1	9.541	9.545	1.314	1.238	7.528	6.943	2.771	0	5.065	3.921	9.935	2
8.10E-1	9.261	9.265	1.606	1.539	5.581	6.837	2.772	0	4.450	3.142	1.035	1
8.30E-1	9.242	9.251	1.631	1.573	5.639	1.018	2.772	0	3.926	2.964	1.174	1
8.50E-1	9.271	9.287	1.593	1.543	4.967	1.051	2.774	0	3.393	2.683	1.243	1
8.70E-1	9.315	9.337	1.470	1.494	4.465	1.086	2.775	0	3.064	2.843	1.329	1
8.90E-1	9.358	9.380	1.422	1.451	3.986	1.124	2.776	0	2.750	2.825	1.421	1
9.10E-1	9.397	9.436	1.450	1.413	3.536	1.166	2.777	0	2.455	2.807	1.518	1
9.30E-1	9.447	9.497	1.400	1.387	3.084	1.220	2.778	0	2.159	2.820	1.644	1
9.50E-1	9.501	9.571	1.349	1.320	2.550	1.287	2.780	0	1.808	2.826	1.801	1
9.70E-1	9.577	9.654	1.301	1.274	2.238	1.362	2.782	0	1.608	2.923	1.976	1
9.90E-1	9.601	9.729	1.265	1.239	2.103	1.447	2.784	0	1.502	3.085	2.160	1
1.00E-1	9.693	9.865	1.196	1.168	1.800	1.648	2.788	0	1.396	3.503	2.602	1
1.05E-1	9.886	1.164	1.078	1.058	1.554	2.362	2.795	0	1.626	4.150	4.149	1
1.10E-1	9.953	1.064	0.964	0.944	1.419	3.766	2.801	0	2.405	4.248	7.177	1
1.15E-1	9.717	1.117	0.874	0.855	1.394	4.492	2.805	0	3.237	1.288	8.932	1
1.20E-1	9.148	2.176	0.828	0.812	1.386	5.127	2.910	0	4.265	1.333	1.143	0
1.25E-1	9.752	2.752	0.839	0.805	1.379	5.650	2.914	0	5.300	1.370	1.269	0
1.30E-1	9.197	2.801	0.810	0.810	1.371	6.874	2.919	0	7.012	2.930	1.544	0
1.35E-1	9.209	2.851	0.810	0.810	1.361	9.365	2.926	0	9.926	4.150	2.087	0
1.40E-1	9.224	2.904	0.810	0.810	1.350	1.245	2.933	0	1.286	5.241	2.769	0
1.45E-1	9.278	2.982	0.802	0.802	1.333	2.084	1.844	0	1.563	6.890	4.386	0
1.50E-1	9.356	3.124	0.835	0.835	1.310	3.608	1.860	0	9.091	8.306	7.650	0
1.55E-1	9.431	3.235	0.830	0.830	1.346	5.967	1.879	0	1.143	1.140	1.339	0

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ENDL 175 Group Neutron Constants

94-Pu-242

ATOMIC WEIGHT 2.4207 ± 2						DENSITY 1.9847 ± 1 GRAMS/CC						
ENERGY MEV	HFP (CM)		CROSS SECTION (BARNIS)								ENERGY DEPOSITIVEM	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORP+IN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
7.527	2.468	3.295	0.208	5.055	1.356	1.954	1	2.899	2.059	1.387	1	
0.83	2.469	3.458	0.136	4.569	1.371	1.305	0	2.920	2.125	1.647	1	
1.025	2.566	3.777	0.893	4.179	1.225	1.472	0	2.942	2.120	1.755	1	
1.176	2.706	3.958	7.484	3.858	1.051	1.447	0	2.967	2.073	1.778	1	
1.330	2.817	4.111	7.190	3.614	0.956	1.436	0	2.993	2.023	1.808	1	
1.511	2.906	4.240	6.968	3.475	0.706	1.425	0	3.020	1.990	1.806	1	
1.694	2.974	4.37	6.811	3.362	0.646	1.413	0	3.050	1.971	1.793	1	
1.887	3.015	4.436	6.716	3.310	0.518	1.401	0	3.081	1.953	1.779	1	
2.091	3.021	4.491	6.704	3.318	0.473	1.394	0	3.114	1.945	1.757	1	
2.305	3.002	4.536	6.745	3.374	0.457	1.387	0	3.146	1.940	1.732	1	
2.530	2.974	4.578	6.811	3.454	0.474	1.381	0	3.182	1.934	1.708	1	
2.741	2.939	4.617	6.891	3.550	0.481	1.374	0	3.220	1.928	1.681	1	
3.011	2.907	4.666	6.967	3.650	0.519	1.355	0	3.261	1.922	1.651	1	
3.267	2.880	4.709	7.033	3.750	0.580	1.346	0	3.302	1.915	1.622	1	
3.533	2.856	4.865	7.091	3.858	0.626	1.296	0	3.344	1.908	1.592	1	
3.811	2.836	4.974	7.142	3.984	0.748	1.267	0	3.386	1.902	1.562	1	
4.069	2.819	5.053	7.183	4.007	0.888	1.255	0	3.426	1.900	1.529	1	
4.386	2.808	5.075	7.212	4.047	1.055	1.249	0	3.461	1.900	1.493	1	
4.704	2.811	5.164	7.205	4.050	1.299	1.242	0	3.502	1.900	1.460	1	
4.991	2.835	5.271	7.144	4.023	1.072	1.235	0	3.579	1.866	1.463	1	
5.353	2.866	5.396	7.065	3.995	1.016	1.261	0	3.633	1.799	1.501	1	
5.659	2.882	5.502	7.027	3.930	0.983	1.350	0	3.699	1.729	1.511	1	
6.024	2.896	5.435	6.993	3.855	0.992	1.523	0	3.768	1.607	1.522	1	
6.367	2.923	5.439	6.929	3.779	0.814	1.708	0	3.936	1.434	1.622	1	
6.777	2.978	5.518	6.802	3.687	0.756	1.830	0	3.912	1.277	1.666	1	
7.156	3.052	5.594	6.636	3.546	0.700	1.903	0	3.931	1.180	1.688	1	
7.510	3.129	5.654	6.473	3.403	0.642	1.959	0	4.065	1.104	1.703	1	
7.910	3.202	5.726	6.324	3.271	0.592	1.992	0	4.142	1.055	1.718	1	
8.327	3.268	5.769	6.196	3.153	0.564	1.972	0	4.225	1.065	1.735	1	
8.767	3.334	5.806	6.074	3.040	0.539	1.952	0	4.309	1.077	1.749	1	
9.177	3.400	5.834	5.956	2.924	0.505	1.938	0	4.394	1.090	1.764	1	
9.665	3.473	5.861	5.836	2.800	0.468	1.925	0	4.486	1.103	1.728	1	
1.012	3.523	5.880	5.708	2.717	0.420	1.911	0	4.576	1.116	1.716	1	
1.050	3.565	5.901	5.681	2.650	0.401	1.899	0	4.663	1.128	1.703	1	
1.101	3.601	5.919	5.625	2.595	0.367	1.885	0	4.757	1.141	1.700	1	
1.155	3.633	5.943	5.575	2.551	0.307	1.871	0	4.851	1.150	1.759	1	
1.199	3.659	5.940	5.535	2.500	0.287	1.857	0	4.940	1.175	1.796	1	
1.250	3.701	6.021	5.473	2.470	0.293	1.864	0	5.042	1.136	1.839	1	
1.307	3.689	6.036	5.491	2.488	0.211	1.890	0	5.145	1.110	1.885	1	
1.354	3.668	6.044	5.522	2.520	0.197	1.913	0	5.215	1.086	1.922	1	
1.386	3.646	6.048	5.552	2.550	0.175	1.933	0	5.270	1.067	1.948	1	
1.413	3.630	6.053	5.579	2.577	0.213	1.951	0	5.322	1.048	1.960	1	
1.441	3.613	6.061	5.606	2.604	0.125	1.970	0	5.373	1.030	1.971	1	
1.468	3.595	6.057	5.633	2.642	0.070	1.994	0	5.447	1.000	1.983	1	
1.519	3.572	6.090	5.673	2.673	0.912	4.203	0	5.544	0.955	1.975	1	
1.575	3.550	6.117	5.704	2.707	0.982	4.206	0	5.655	0.901	1.959	1	
1.633	3.517	6.133	5.758	2.763	0.949	4.201	0	5.765	0.845	1.943	1	
1.692	3.483	6.144	5.815	2.822	0.911	4.203	0	5.877	0.788	1.927	1	
1.752	3.448	6.156	5.873	2.882	0.869	4.207	0	5.991	0.721	1.946	1	
1.813	3.427	6.171	5.911	2.924	0.822	4.221	0	6.107	0.668	1.997	1	
1.875	3.402	6.183	5.953	2.969	0.849	4.226	0	6.283	0.567	2.074	1	
2.003												
RESONANCE INTEGRALS			1.945	3	4.805	2	1.414	3	7.095	0	1.934	3
MAXWELLIAN AVERAGES			2.839	1	1.134	1	1.705	1	7.950	4	2.770	0
1/E AVERAGES			1.111	2	2.745	1	0.079	1	2.461	0	2.906	0
FISSION AVERAGES			7.648	0	4.658	0	8.270	2	1.123	0	3.172	0
FUSION AVERAGES			5.558	0	2.557	0	1.670	3	1.938	0	5.284	0

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ENDL 175 Group Neutron Constants

94-Pu-243

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ENDL 175 Group Neutron Constants

94-Pu-243

ATOMIC WEIGHT 2.4301 ± 2										DENSITY 1.9925 ± 1 GRAMS/CC	
ENERGY	HFP (CM)		CROSS SECTION (BARNES)							ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	MU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
3.07	1.445	2.144	1.402	1.134	8.312	5.785	2.880	0	1.057	4	7.452
5.227	2.997	2.997	2.675	2.134	3.971	2.673	2.880	0	5.050	3	7.387
2.091	4.911	4.492	4.509	2.134	2.674	1.759	2.880	0	3.342	3	7.324
3.467	5.467	5.467	3.705	2.134	2.146	1.445	2.880	0	2.730	3	7.228
4.702	6.897	6.897	2.937	2.134	1.687	1.136	2.880	0	2.146	3	7.223
8.308	8.767	8.769	2.310	2.134	1.312	1.149	1.659	0	7.767	7	6.731
1.657	1.657	1.657	2.227	2.134	2.227	2.212	2.880	0	7.152	3	7.033
1.882	7.126	1.226	1.652	2.325	9.080	6.113	2.880	0	1.155	1	6.910
2.561	7.386	1.387	1.461	2.439	7.672	5.299	2.880	0	1.001	3	6.773
3.345	7.535	1.535	1.320	2.570	6.948	4.677	2.880	0	8.838	2	6.619
4.234	7.667	1.668	1.215	2.708	6.236	4.205	2.880	0	7.937	2	6.463
5.123	7.777	1.777	1.105	2.842	5.521	3.731	2.880	0	6.908	2	6.311
7.52	7.707	2.710	5.663	2.884	1.263	2.317	2.880	0	2.698	2	6.179
1.76	8.811	2.815	2.054	2.739	6.197	1.271	2.880	0	1.393	3	6.149
1.511	8.885	2.886	2.074	3.093	5.320	7.012	2.880	0	7.634	3	6.129
2.091	5.194	5.202	1.900	2.181	3.625	1.155	2.880	0	1.268	2	5.532
2.741	6.398	6.410	1.315	2.027	7.652	0.280	2.880	0	2.659	1	4.515
3.533	6.249	2.250	3.858	2.523	1.182	2.244	2.880	0	3.399	2	4.173
5.662	1.676	1.206	1.163	2.163	2.885	0.915	2.880	0	6.431	1	3.634
5.658	6.632	2.633	3.054	2.342	9.244	1.895	2.880	0	2.080	3	3.159
6.737	4.179	4.184	4.647	2.310	8.315	1.705	2.880	0	1.871	2	3.658
8.322	8.330	8.333	2.431	2.522	1.144	1.465	2.880	0	1.607	3	3.125
9.620	6.993	7.007	2.896	2.184	7.335	4.787	2.880	0	5.252	1	3.086
1.311	1.358	1.359	1.912	2.451	8.365	2.451	2.880	0	9.161	2	1.049
1.001	1.211	2.212	2.672	2.524	4.655	5.943	1.880	0	5.255	2	0.662
1.668	5.767	7.263	2.787	2.292	1.624	3.299	0.690	0	3.652	1	2.210
1.581	1.358	1.359	1.491	2.686	4.050	6.173	1.880	0	9.019	2	1.024
1.758	2.114	2.116	9.578	2.893	3.477	3.530	2.880	0	5.011	2	6.899
2.882	2.089	2.091	9.695	2.851	3.288	3.617	2.880	0	5.131	2	6.966
2.075	2.676	2.677	2.220	2.220	2.220	2.220	2.880	0	7.010	1	6.820
2.447	3.650	5.555	1.655	1.655	1.655	1.655	2.880	0	2.927	7	6.757
2.417	5.031	5.035	4.026	1.229	1.389	1.408	2.880	0	2.103	2	6.531
2.561	5.483	5.487	3.694	1.150	1.272	1.272	2.880	0	1.913	2	6.430
2.710	5.577	5.581	3.632	1.150	1.241	1.241	2.880	0	1.866	2	6.380
2.862	5.651	5.655	3.584	1.150	1.217	1.217	2.880	0	1.811	2	6.314
2.975	5.717	5.722	3.524	1.150	1.193	1.193	2.880	0	1.759	2	6.244
3.099	5.826	5.832	3.478	1.150	1.163	1.163	2.880	0	1.709	2	6.170
3.245	5.962	5.967	3.397	1.150	1.12	1.12	2.660	0	1.690	2	6.176
3.60	6.086	6.092	3.269	1.150	1.089	1.089	2.880	0	1.638	2	6.553
3.636	6.195	6.201	3.288	1.150	1.060	1.060	2.880	0	1.594	2	6.491
4.048	6.274	6.280	3.228	1.150	1.038	1.039	2.880	0	1.563	2	6.446
4.482	6.353	6.359	3.168	1.150	1.016	1.016	2.880	0	1.530	2	6.400
4.929	6.414	6.420	3.108	1.150	1.004	1.004	2.880	0	1.510	2	6.367
4.619	6.496	6.502	3.118	1.150	9.840	0.840	0.880	0	1.480	2	6.320
4.717	6.530	6.537	3.092	1.150	9.711	0.711	0.880	0	1.461	2	6.289
4.918	6.624	6.631	3.057	1.150	9.538	0.538	0.880	0	1.435	2	6.247
5.123	6.702	6.709	3.022	1.150	9.361	0.361	0.880	0	1.408	2	6.203
5.339	6.796	6.801	2.987	1.150	9.184	0.184	0.880	0	1.377	2	6.151
5.634	6.863	6.871	2.951	1.150	8.995	0.005	0.880	0	1.344	2	6.099
5.763	6.936	6.943	2.920	1.150	8.851	0.851	0.880	0	1.331	2	6.070
6.097	7.026	7.034	2.882	1.150	8.663	0.663	0.880	0	1.303	2	6.019
6.325	7.092	7.100	2.856	1.150	8.530	0.530	0.880	0	1.293	2	5.982
6.551	7.162	7.169	2.830	1.150	8.431	0.431	0.880	0	1.280	2	5.953
6.778	7.233	7.240	2.804	1.150	8.316	0.316	0.880	0	1.268	2	5.918
7.03	7.260	7.266	2.782	1.150	8.162	0.162	0.880	0	1.254	2	5.895
7.155	7.341	7.349	2.759	1.150	8.046	0.046	0.880	0	1.210	2	5.840
7.527	7.420	7.428	2.730	1.150	7.899	0.899	0.880	0	1.180	2	5.795
7.780	7.469	7.478	2.712	1.150	7.810	0.810	0.880	0	1.175	2	5.768
7.908	7.518	7.527	2.694	1.150	7.720	0.720	0.880	0	1.161	2	5.739
8.035	7.578	7.587	2.676	1.150	7.630	0.630	0.880	0	1.146	2	5.709
8.431	7.652	7.651	2.647	1.150	7.485	0.485	0.880	0	1.126	2	5.664
8.834	7.729	7.739	2.620	1.150	7.354	0.354	0.880	0	1.106	2	5.620

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ENDL 175 Group Neutron Constants

94-Pu-243

ATOMIC WEIGHT 2.4301 ± 2			DENSITY 1.9925 g/CC									
ENERGY	MFP (CM)		CROSS SECTION (BARN)									
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
9.10E-5	7.790	7.799	2.600	1.150	7.252	0	2.680	0	1.091	2	5.585	5.208
9.30E-5	7.871	7.880	2.622	1.150	7.151	0	2.680	0	1.071	2	5.556	5.178
9.60E-5	7.806	7.850	2.568	1.150	7.092	0	2.680	0	1.067	2	5.531	5.157
9.81E-5	7.944	7.954	2.550	1.150	7.000	0	2.680	0	1.053	2	5.499	5.127
1.02E-4	8.054	8.065	2.511	1.150	6.824	0	2.680	0	1.026	2	5.435	5.068
1.09E-4	8.177	8.188	2.477	1.150	6.636	0	2.680	0	9.981	1	5.366	5.003
1.17E-4	8.305	8.317	2.438	1.150	6.444	0	2.680	0	9.692	1	5.292	4.935
1.25E-4	8.444	8.455	2.399	1.149	6.245	0	2.680	0	9.393	1	5.214	4.862
1.33E-4	8.587	8.598	2.367	1.149	6.087	0	2.680	0	9.155	1	5.150	4.793
1.40E-4	8.666	8.678	2.337	1.149	5.938	0	2.680	0	8.930	1	5.088	4.745
1.51E-4	8.794	8.806	2.303	1.149	5.769	0	2.680	0	8.676	1	5.016	4.677
1.60E-4	8.917	8.929	2.271	1.149	5.610	0	2.680	0	8.437	1	4.946	4.612
1.69E-4	9.026	9.039	2.244	1.149	5.473	0	2.680	0	8.231	1	4.884	4.555
1.78E-4	9.124	9.137	2.220	1.149	5.353	0	2.680	0	8.051	1	4.829	4.503
1.88E-4	9.226	9.240	2.195	1.149	5.230	0	2.680	0	7.889	1	4.771	4.448
1.98E-4	9.334	9.346	2.170	1.149	5.103	0	2.680	0	7.675	1	4.710	4.392
2.09E-4	9.659	9.674	2.097	1.149	4.739	0	2.680	0	7.128	1	4.526	4.221
2.74E-4	1.009	1.010	2.008	1.149	4.296	0	2.680	0	6.462	1	4.285	3.996
3.26E-4	1.041	1.042	1.946	1.148	3.990	0	2.680	0	6.002	1	4.105	3.881
3.81E-4	1.076	1.077	1.885	1.148	3.675	0	2.680	0	5.527	1	3.908	3.844
4.70E-4	1.101	1.103	1.805	1.148	3.460	0	2.680	0	5.204	1	3.786	3.512
4.99E-4	1.118	1.120	1.812	1.147	3.323	0	2.680	0	4.999	1	3.673	3.425
5.69E-4	1.136	1.138	1.704	1.147	3.182	0	2.680	0	4.786	1	3.573	3.331
6.04E-4	1.146	1.148	1.767	1.147	3.100	0	2.680	0	4.662	1	3.513	3.276
6.36E-4	1.161	1.163	1.744	1.147	2.986	0	2.680	0	4.491	1	3.429	3.197
7.15E-4	1.185	1.189	1.708	1.146	2.811	0	2.680	0	4.228	1	3.295	3.072
8.32E-4	1.207	1.210	1.677	1.146	2.658	0	2.680	0	3.998	1	3.173	2.959
9.17E-4	1.228	1.230	1.649	1.145	2.511	0	2.680	0	3.791	1	3.059	2.853
1.05E-3	1.253	1.255	1.617	1.144	2.397	0	2.680	0	3.558	1	2.989	2.692
1.30E-3	1.279	1.282	1.584	1.143	2.270	0	2.680	0	3.320	1	2.707	2.520
1.58E-3	1.305	1.308	1.552	1.141	2.130	0	2.680	0	3.094	1	2.553	2.375
1.86E-3	1.329	1.332	1.524	1.140	2.006	0	2.680	0	2.897	1	2.419	2.250
2.08E-3	1.344	1.346	1.507	1.139	1.974	0	2.680	0	2.787	1	2.291	2.127
2.56E-3	1.357	1.360	1.493	1.138	1.950	0	2.680	0	2.659	1	2.178	2.018
2.94E-3	1.369	1.372	1.479	1.134	1.924	0	2.680	0	2.612	1	2.082	1.927
3.34E-3	1.380	1.383	1.468	1.132	1.896	0	2.680	0	2.542	1	2.007	1.855
3.77E-3	1.391	1.394	1.456	1.130	1.866	0	2.680	0	2.475	1	1.941	1.792
4.23E-3	1.412	1.415	1.434	1.125	1.799	0	2.680	0	2.346	1	1.824	1.681
5.76E-3	1.447	1.450	1.400	1.117	1.665	0	2.680	0	2.150	1	1.686	1.552
7.52E-3	1.517	1.521	1.335	1.106	1.234	0	2.680	0	1.732	1	1.580	1.465
1.02E-2	1.586	1.590	1.277	1.098	8.609	1	9.336	2.680	1.348	1	1.611	1.365
1.51E-2	1.526	1.637	1.245	1.093	6.659	1	8.423	2.680	1.114	1	1.344	1.260
2.09E-2	1.654	1.674	1.223	1.088	5.837	1	7.728	2.680	1.043	1	1.256	1.180
2.64E-2	1.683	1.709	1.203	1.083	4.833	1	7.225	2.680	8.990	1	1.191	1.121
3.26E-2	1.707	1.742	1.187	1.077	4.182	1	6.806	2.680	8.177	1	1.135	1.071
3.95E-2	1.730	1.775	1.171	1.070	3.571	1	6.447	2.680	7.437	1	1.080	1.029
4.70E-2	1.757	1.814	1.152	1.062	2.925	1	6.086	2.680	6.669	1	1.041	0.983
5.76E-2	1.783	1.862	1.135	1.052	2.528	1	5.734	2.680	8.094	3	1.004	0.929
7.00E-2	1.805	1.912	1.122	1.041	2.356	1	5.427	2.680	3.323	2	5.752	0.933
8.32E-2	1.827	1.965	1.108	1.028	2.260	1	5.154	2.680	6.212	2	5.486	0.917
9.89E-2	1.850	2.076	1.090	1.017	2.156	1	4.923	2.680	1.274	1	5.246	0.892
1.10E-1	1.906	2.165	1.063	1.005	2.031	1	4.714	2.680	2.602	1	5.010	0.875
1.28E-1	1.951	2.314	1.038	0.994	1.915	1	4.574	2.680	3.845	1	4.828	0.856
2.07E-1	1.980	2.392	1.023	0.987	1.814	1	4.460	2.680	5.166	1	4.666	0.825
2.47E-1	2.010	2.466	1.007	0.981	1.703	1	4.393	2.680	6.535	1	4.541	0.803
2.71E-1	2.035	2.531	0.995	0.985	1.611	1	4.340	2.680	7.712	1	4.434	0.803
2.94E-1	2.057	2.577	0.986	0.980	1.500	1	4.277	2.680	9.584	1	4.345	0.817
3.34E-1	2.072	2.628	0.973	0.974	1.354	1	4.196	2.680	1.271	0	4.440	0.820
3.77E-1	2.091	2.682	0.960	0.968	1.207	1	4.133	2.680	1.595	0	4.195	0.803
2.23E-1	2.148	2.764	0.949	0.981	1.084	1	4.044	2.680	1.937	0	4.516	0.810
5.12E-1	2.253	2.923	0.991	0.966	0.809	2	4.022	2.680	2.243	0	1.092	0.810
6.32E-1	2.388	3.145	0.479	0.545	0.079	2	4.532	3.000	2.431	0	1.052	0.975

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94-Pu-243

04/12/76

ENDL 175 Group Neutron Constants

94-Pu-243

ATOMIC WEIGHT 2.4301 ± 2		DENSITY 1.9925 ± 4		GRAMS/CC							
ENERGY	MF (CM)	CROSS SECTION (BARNs)									
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
5.27-7	2.476 ± 0 3.294 ± 0	8.187 ± 0 4.982 ± 0	5.090 ± 0 6.144 ± 1	3.027 ± 0 2.532 ± 0	1.401 ± 1 1.476 ± 1	1.401 ± 1 1.401 ± 1	1.401 ± 1 1.401 ± 1	1.401 ± 1 1.401 ± 1	1.401 ± 1 1.401 ± 1	1.401 ± 1 1.401 ± 1	
6.934-7	2.469 ± 0 3.452 ± 0	8.15 ± 0 4.549 ± 0	4.695 ± 0 5.981 ± 1	3.051 ± 0 2.583 ± 0	1.575 ± 1 2.305 ± 1	1.575 ± 1 2.305 ± 1	1.575 ± 1 2.305 ± 1	1.575 ± 1 2.305 ± 1	1.575 ± 1 2.305 ± 1	1.575 ± 1 2.305 ± 1	
1.025-6	2.535 ± 0 3.709 ± 0	7.991 ± 0 4.174 ± 0	3.599 ± 0 1.200 ± 0	3.076 ± 0 2.580 ± 0	1.674 ± 1 2.836 ± 1	1.674 ± 1 2.836 ± 1	1.674 ± 1 2.836 ± 1	1.674 ± 1 2.836 ± 1	1.674 ± 1 2.836 ± 1	1.674 ± 1 2.836 ± 1	
1.176-6	2.612 ± 0 3.764 ± 0	7.752 ± 0 3.666 ± 0	2.972 ± 0 1.318 ± 0	3.104 ± 0 2.539 ± 0	1.734 ± 1 3.323 ± 1	1.734 ± 1 3.323 ± 1	1.734 ± 1 3.323 ± 1	1.734 ± 1 3.323 ± 1	1.734 ± 1 3.323 ± 1	1.734 ± 1 3.323 ± 1	
1.330-6	2.708 ± 0 3.881 ± 0	7.478 ± 0 3.635 ± 0	2.304 ± 0 1.375 ± 0	3.134 ± 0 2.445 ± 0	1.798 ± 1 3.593 ± 1	1.798 ± 1 3.593 ± 1	1.798 ± 1 3.593 ± 1	1.798 ± 1 3.593 ± 1	1.798 ± 1 3.593 ± 1	1.798 ± 1 3.593 ± 1	
1.511-6	2.791 ± 0 4.000 ± 0	7.256 ± 0 3.478 ± 0	1.898 ± 0 1.400 ± 0	3.165 ± 0 2.359 ± 0	1.813 ± 1 3.772 ± 1	1.813 ± 1 3.772 ± 1	1.813 ± 1 3.772 ± 1	1.813 ± 1 3.772 ± 1	1.813 ± 1 3.772 ± 1	1.813 ± 1 3.772 ± 1	
1.694-6	2.859 ± 0 4.116 ± 0	7.083 ± 0 3.392 ± 0	1.710 ± 0 1.400 ± 0	3.199 ± 0 2.294 ± 0	1.787 ± 1 3.867 ± 1	1.787 ± 1 3.867 ± 1	1.787 ± 1 3.867 ± 1	1.787 ± 1 3.867 ± 1	1.787 ± 1 3.867 ± 1	1.787 ± 1 3.867 ± 1	
1.867-6	2.905 ± 0 4.221 ± 0	6.971 ± 0 3.347 ± 0	1.511 ± 0 1.398 ± 0	3.234 ± 0 2.211 ± 0	1.760 ± 1 3.925 ± 1	1.760 ± 1 3.925 ± 1	1.760 ± 1 3.925 ± 1	1.760 ± 1 3.925 ± 1	1.760 ± 1 3.925 ± 1	1.760 ± 1 3.925 ± 1	
2.091-6	2.917 ± 0 4.292 ± 0	6.944 ± 0 3.365 ± 0	1.302 ± 0 1.380 ± 0	3.272 ± 0 2.185 ± 0	1.731 ± 1 3.894 ± 1	1.731 ± 1 3.894 ± 1	1.731 ± 1 3.894 ± 1	1.731 ± 1 3.894 ± 1	1.731 ± 1 3.894 ± 1	1.731 ± 1 3.894 ± 1	
2.305-6	2.903 ± 0 4.355 ± 0	6.968 ± 0 3.431 ± 0	1.082 ± 0 1.358 ± 0	3.311 ± 0 2.169 ± 0	1.700 ± 1 3.822 ± 1	1.700 ± 1 3.822 ± 1	1.700 ± 1 3.822 ± 1	1.700 ± 1 3.822 ± 1	1.700 ± 1 3.822 ± 1	1.700 ± 1 3.822 ± 1	
2.530-6	2.892 ± 0 4.421 ± 0	6.003 ± 0 3.505 ± 0	8.645 ± 0 1.336 ± 0	3.350 ± 0 2.152 ± 0	1.669 ± 1 3.747 ± 1	1.669 ± 1 3.747 ± 1	1.669 ± 1 3.747 ± 1	1.669 ± 1 3.747 ± 1	1.669 ± 1 3.747 ± 1	1.669 ± 1 3.747 ± 1	
2.741-6	2.871 ± 0 4.486 ± 0	7.053 ± 0 3.600 ± 0	6.243 ± 0 1.312 ± 0	3.392 ± 0 2.134 ± 0	1.636 ± 1 3.657 ± 1	1.636 ± 1 3.657 ± 1	1.636 ± 1 3.657 ± 1	1.636 ± 1 3.657 ± 1	1.636 ± 1 3.657 ± 1	1.636 ± 1 3.657 ± 1	
3.011-6	2.847 ± 0 4.570 ± 0	7.115 ± 0 3.709 ± 0	5.40 ± 0 1.286 ± 0	3.439 ± 0 2.115 ± 0	1.604 ± 1 3.550 ± 1	1.604 ± 1 3.550 ± 1	1.604 ± 1 3.550 ± 1	1.604 ± 1 3.550 ± 1	1.604 ± 1 3.550 ± 1	1.604 ± 1 3.550 ± 1	
3.267-6	2.822 ± 0 4.657 ± 0	7.176 ± 0 3.816 ± 0	4.828 ± 0 1.260 ± 0	3.486 ± 0 2.095 ± 0	1.576 ± 1 3.462 ± 1	1.576 ± 1 3.462 ± 1	1.576 ± 1 3.462 ± 1	1.576 ± 1 3.462 ± 1	1.576 ± 1 3.462 ± 1	1.576 ± 1 3.462 ± 1	
3.533-6	2.808 ± 0 4.762 ± 0	7.214 ± 0 3.902 ± 0	4.712 ± 0 1.233 ± 0	3.534 ± 0 2.075 ± 0	1.548 ± 1 3.375 ± 1	1.548 ± 1 3.375 ± 1	1.548 ± 1 3.375 ± 1	1.548 ± 1 3.375 ± 1	1.548 ± 1 3.375 ± 1	1.548 ± 1 3.375 ± 1	
3.811-6	2.798 ± 0 4.881 ± 0	7.237 ± 0 3.971 ± 0	4.597 ± 0 1.206 ± 0	3.582 ± 0 2.055 ± 0	1.520 ± 1 3.297 ± 1	1.520 ± 1 3.297 ± 1	1.520 ± 1 3.297 ± 1	1.520 ± 1 3.297 ± 1	1.520 ± 1 3.297 ± 1	1.520 ± 1 3.297 ± 1	
4.269-6	2.789 ± 0 4.978 ± 0	7.261 ± 0 4.030 ± 0	4.472 ± 0 1.177 ± 0	3.633 ± 0 2.050 ± 0	1.489 ± 1 3.214 ± 1	1.489 ± 1 3.214 ± 1	1.489 ± 1 3.214 ± 1	1.489 ± 1 3.214 ± 1	1.489 ± 1 3.214 ± 1	1.489 ± 1 3.214 ± 1	
4.796-6	2.789 ± 0 5.067 ± 0	7.263 ± 0 4.063 ± 0	4.336 ± 0 1.145 ± 0	3.691 ± 0 2.050 ± 0	1.456 ± 1 3.135 ± 1	1.456 ± 1 3.135 ± 1	1.456 ± 1 3.135 ± 1	1.456 ± 1 3.135 ± 1	1.456 ± 1 3.135 ± 1	1.456 ± 1 3.135 ± 1	
5.404-6	2.800 ± 0 5.141 ± 0	7.252 ± 0 4.063 ± 0	4.200 ± 0 1.115 ± 0	3.744 ± 0 2.050 ± 0	1.424 ± 1 3.075 ± 1	1.424 ± 1 3.075 ± 1	1.424 ± 1 3.075 ± 1	1.424 ± 1 3.075 ± 1	1.424 ± 1 3.075 ± 1	1.424 ± 1 3.075 ± 1	
6.091-6	2.813 ± 0 5.190 ± 0	7.200 ± 0 4.028 ± 0	4.069 ± 0 1.093 ± 0	3.801 ± 0 2.075 ± 0	1.428 ± 1 3.030 ± 1	1.428 ± 1 3.030 ± 1	1.428 ± 1 3.030 ± 1	1.428 ± 1 3.030 ± 1	1.428 ± 1 3.030 ± 1	1.428 ± 1 3.030 ± 1	
6.853-6	2.807 ± 0 5.183 ± 0	7.215 ± 0 3.990 ± 0	3.926 ± 0 1.083 ± 0	3.862 ± 0 2.138 ± 0	1.467 ± 1 2.970 ± 1	1.467 ± 1 2.970 ± 1	1.467 ± 1 2.970 ± 1	1.467 ± 1 2.970 ± 1	1.467 ± 1 2.970 ± 1	1.467 ± 1 2.970 ± 1	
7.698-6	2.804 ± 0 5.247 ± 0	7.132 ± 0 3.906 ± 0	3.779 ± 0 1.094 ± 0	3.928 ± 0 2.128 ± 0	1.507 ± 1 3.011 ± 1	1.507 ± 1 3.011 ± 1	1.507 ± 1 3.011 ± 1	1.507 ± 1 3.011 ± 1	1.507 ± 1 3.011 ± 1	1.507 ± 1 3.011 ± 1	
8.624-6	2.891 ± 0 5.354 ± 0	7.005 ± 0 3.801 ± 0	3.627 ± 0 1.141 ± 0	3.997 ± 0 2.099 ± 0	1.548 ± 1 3.185 ± 1	1.548 ± 1 3.185 ± 1	1.548 ± 1 3.185 ± 1	1.548 ± 1 3.185 ± 1	1.548 ± 1 3.185 ± 1	1.548 ± 1 3.185 ± 1	
9.761-6	2.934 ± 0 5.380 ± 0	6.922 ± 0 3.698 ± 0	3.478 ± 0 1.225 ± 0	4.064 ± 0 2.175 ± 0	1.588 ± 1 3.462 ± 1	1.588 ± 1 3.462 ± 1	1.588 ± 1 3.462 ± 1	1.588 ± 1 3.462 ± 1	1.588 ± 1 3.462 ± 1	1.588 ± 1 3.462 ± 1	
1.107-5	2.986 ± 0 5.415 ± 0	6.782 ± 0 3.582 ± 0	3.309 ± 0 1.378 ± 0	4.140 ± 0 1.819 ± 0	1.632 ± 1 3.948 ± 1	1.632 ± 1 3.948 ± 1	1.632 ± 1 3.948 ± 1	1.632 ± 1 3.948 ± 1	1.632 ± 1 3.948 ± 1	1.632 ± 1 3.948 ± 1	
1.356-5	3.055 ± 0 5.494 ± 0	6.630 ± 0 3.462 ± 0	3.35 ± 0 1.540 ± 0	4.219 ± 0 1.625 ± 0	1.665 ± 1 4.499 ± 1	1.665 ± 1 4.499 ± 1	1.665 ± 1 4.499 ± 1	1.665 ± 1 4.499 ± 1	1.665 ± 1 4.499 ± 1	1.665 ± 1 4.499 ± 1	
1.546-5	3.114 ± 0 5.547 ± 0	6.503 ± 0 3.350 ± 0	2.973 ± 0 1.646 ± 0	4.291 ± 0 1.504 ± 0	1.693 ± 1 4.894 ± 1	1.693 ± 1 4.894 ± 1	1.693 ± 1 4.894 ± 1	1.693 ± 1 4.894 ± 1	1.693 ± 1 4.894 ± 1	1.693 ± 1 4.894 ± 1	
1.791-5	3.168 ± 0 5.577 ± 0	6.394 ± 0 3.241 ± 0	2.608 ± 0 1.723 ± 0	4.366 ± 0 1.474 ± 0	1.722 ± 1 5.208 ± 1	1.722 ± 1 5.208 ± 1	1.722 ± 1 5.208 ± 1	1.722 ± 1 5.208 ± 1	1.722 ± 1 5.208 ± 1	1.722 ± 1 5.208 ± 1	
2.122-5	3.224 ± 0 5.600 ± 0	6.281 ± 0 3.129 ± 0	2.620 ± 0 1.793 ± 0	4.451 ± 0 1.357 ± 0	1.754 ± 1 5.512 ± 1	1.754 ± 1 5.512 ± 1	1.754 ± 1 5.512 ± 1	1.754 ± 1 5.512 ± 1	1.754 ± 1 5.512 ± 1	1.754 ± 1 5.512 ± 1	
2.507-5	3.281 ± 0 5.620 ± 0	6.172 ± 0 3.020 ± 0	2.436 ± 0 1.800 ± 0	4.533 ± 0 1.350 ± 0	1.783 ± 1 5.633 ± 1	1.783 ± 1 5.633 ± 1	1.783 ± 1 5.633 ± 1	1.783 ± 1 5.633 ± 1	1.783 ± 1 5.633 ± 1	1.783 ± 1 5.633 ± 1	
2.937-5	3.342 ± 0 5.624 ± 0	6.060 ± 0 2.908 ± 0	2.248 ± 0 1.800 ± 0	4.618 ± 0 1.350 ± 0	1.789 ± 1 5.742 ± 1	1.789 ± 1 5.742 ± 1	1.789 ± 1 5.742 ± 1	1.789 ± 1 5.742 ± 1	1.789 ± 1 5.742 ± 1	1.789 ± 1 5.742 ± 1	
3.419-5	3.409 ± 0 5.666 ± 0	5.941 ± 0 2.789 ± 0	2.051 ± 0 1.799 ± 0	4.709 ± 0 1.351 ± 0	1.789 ± 1 5.879 ± 1	1.789 ± 1 5.879 ± 1	1.789 ± 1 5.879 ± 1	1.789 ± 1 5.879 ± 1	1.789 ± 1 5.879 ± 1	1.789 ± 1 5.879 ± 1	
3.952-5	3.452 ± 0 5.675 ± 0	5.827 ± 0 2.711 ± 0	1.965 ± 0 1.781 ± 0	4.798 ± 0 1.373 ± 0	1.750 ± 1 5.879 ± 1	1.750 ± 1 5.879 ± 1	1.750 ± 1 5.879 ± 1	1.750 ± 1 5.879 ± 1	1.750 ± 1 5.879 ± 1	1.750 ± 1 5.879 ± 1	
4.558-5	3.486 ± 0 5.684 ± 0	5.810 ± 0 2.648 ± 0	1.920 ± 0 1.757 ± 0	4.884 ± 0 1.402 ± 0	1.791 ± 1 5.863 ± 1	1.791 ± 1 5.863 ± 1	1.791 ± 1 5.863 ± 1	1.791 ± 1 5.863 ± 1	1.791 ± 1 5.863 ± 1	1.791 ± 1 5.863 ± 1	
5.241-5	3.509 ± 0 5.687 ± 0	5.772 ± 0 2.604 ± 0	1.872 ± 0 1.732 ± 0	4.977 ± 0 1.433 ± 0	1.807 ± 1 5.822 ± 1	1.807 ± 1 5.822 ± 1	1.807 ± 1 5.822 ± 1	1.807 ± 1 5.822 ± 1	1.807 ± 1 5.822 ± 1	1.807 ± 1 5.822 ± 1	
5.991-5	3.530 ± 0 5.707 ± 0	5.738 ± 0 2.577 ± 0	1.823 ± 0 1.763 ± 0	5.069 ± 0 1.435 ± 0	1.835 ± 1 5.921 ± 1	1.835 ± 1 5.921 ± 1	1.835 ± 1 5.921 ± 1	1.835 ± 1 5.921 ± 1	1.835 ± 1 5.921 ± 1	1.835 ± 1 5.921 ± 1	
6.819-5	3.552 ± 0 5.727 ± 0	5.702 ± 0 2.550 ± 0	1.775 ± 0 1.825 ± 0	5.194 ± 0 1.425 ± 0	1.861 ± 1 6.132 ± 1	1.861 ± 1 6.132 ± 1	1.861 ± 1 6.132 ± 1	1.861 ± 1 6.132 ± 1	1.861 ± 1 6.132 ± 1	1.861 ± 1 6.132 ± 1	
7.724-5	3.563 ± 0 5.750 ± 0	5.685 ± 0 2.533 ± 0	1.722 ± 0 1.878 ± 0	5.251 ± 0 1.472 ± 0	1.892 ± 1 6.317 ± 1	1.892 ± 1 6.317 ± 1	1.892 ± 1 6.317 ± 1	1.892 ± 1 6.317 ± 1	1.892 ± 1 6.317 ± 1	1.892 ± 1 6.317 ± 1	
8.707-5	3.561 ± 0 5.788 ± 0	5.687 ± 0 2.551 ± 0	1.669 ± 0 1.900 ± 0	5.345 ± 0 1.235 ± 0	1.903 ± 1 6.381 ± 1	1.903 ± 1 6.381 ± 1	1.903 ± 1 6.381 ± 1	1.903 ± 1 6.381 ± 1	1.903 ± 1 6.381 ± 1	1.903 ± 1 6.381 ± 1	
9.854-5	3.563 ± 0 5.833 ± 0	5.684 ± 0 2.568 ± 0	1.630 ± 0 1.900 ± 0	5.416 ± 0 1.255 ± 0	1.901 ± 1 6.383 ± 1	1.901 ± 1 6.383 ± 1	1.901 ± 1 6.383 ± 1	1.901 ± 1 6.383 ± 1	1.901 ± 1 6.383 ± 1	1.901 ± 1 6.383 ± 1	
1.118-4	3.564 ± 0 5.865 ± 0	5.683 ± 0 2.581 ± 0	1.600 ± 0 1.900 ± 0	5.470 ± 0 1.200 ± 0	1.898 ± 1 6.383 ± 1	1.898 ± 1 6.383 ± 1	1.898 ± 1 6.383 ± 1	1.898 ± 1 6.383 ± 1	1.898 ± 1 6.383 ± 1	1.898 ± 1 6.383 ± 1	
1.35-4	3.562 ± 0 5.895 ± 0	5.688 ± 0 2.600 ± 0	1.573 ± 0 1.900 ± 0	5.519 ± 0 1.186 ± 0	1.891 ± 1 6.375 ± 1	1.891 ± 1 6.375 ± 1	1.891 ± 1 6.375 ± 1	1.891 ± 1 6.375 ± 1	1.891 ± 1 6.375 ± 1	1.891 ± 1 6.375 ± 1	
1.61-4	3.556 ± 0 5.927 ± 0	5.695 ± 0 2.621 ± 0	1.545 ± 0 1.900 ± 0	5.588 ± 0 1.173 ± 0	1.887 ± 1 6.366 ± 1	1.887 ± 1 6.366 ± 1	1.887 ± 1 6.366 ± 1	1.887 ± 1 6.366 ± 1	1.887 ± 1 6.366 ± 1	1.887 ± 1 6.366 ± 1	
1.881-4	3.549 ± 0 5.965 ± 0	5.707 ± 0 2.650 ± 0	1.507 ± 0 1.889 ± 0	5.634 ± 0 1.156 ± 0	1.889 ± 1 6.348 ± 1	1.889 ± 1 6.348 ± 1	1.889 ± 1 6.348 ± 1	1.889 ± 1 6.348 ± 1	1.889 ± 1 6.348 ± 1	1.889 ± 1 6.348 ± 1	
2.190-4	3.524 ± 0 5.983 ± 0	5.747 ± 0 2.690 ± 0	1.453 ± 0 1.891 ± 0	5.735 ± 0 1.164 ± 0	1.840 ± 1 6.277 ± 1	1.840 ± 1 6.277 ± 1	1.840 ± 1 6.277 ± 1	1.840 ± 1 6.277 ± 1	1.840 ± 1 6.277 ± 1	1.840 ± 1 6.277 ± 1	
2.55-4	3.494 ± 0 5.994 ± 0	5.796 ± 0 2.734 ± 0	1.396 ± 0 1.879 ± 0	5.838 ± 0 1.182 ± 0	1.805 ± 1 6.189 ± 1	1.805 ± 1 6.189 ± 1	1.805 ± 1 6.189 ± 1	1.805 ± 1 6.189 ± 1	1.805 ± 1 6.189 ± 1	1.805 ± 1 6.189 ± 1	
2.931-4	3.452 ± 0 5.964 ± 0	5.867 ± 0 2.780 ± 0	1.337 ± 0 1.857 ± 0	5.943 ± 0 1.218 ± 0	1.769 ± 1 6.077 ± 1	1.769 ± 1 6.077 ± 1	1.769 ± 1 6.077 ± 1	1.769 ± 1 6.077 ± 1	1.769 ± 1 6.077 ± 1	1.769 ± 1 6.077 ± 1	
3.342-4	3.381 ± 0 5.843 ± 0	5.990 ± 0 2.828 ± 0	1.270 ± 0 1.856 ± 0	6.050 ± 0 1.305 ± 0	1.733 ± 1 5.899 ± 1	1.733 ± 1 5.899 ± 1	1.733 ± 1 5.899 ± 1	1.733 ± 1 5.899 ± 1	1.733 ± 1 5.899 ± 1	1.733 ± 1 5.899 ± 1	
3.792-4	3.417 ± 0 5.804 ± 0	5.926 ± 0 2.676 ± 0	1.217 ± 0 1.883 ± 0	6.159 ± 0 1.166 ± 0	1.701 ± 1 5.839 ± 1	1.701 ± 1 5.839 ± 1	1.701 ± 1 5.839 ± 1	1.701 ± 1 5.839 ± 1	1.701 ± 1 5.839 ± 1	1.701 ± 1 5.839 ± 1	
4.281-4	3.406 ± 0 5.937 ± 0	5.946 ± 0 2.817 ± 0	1.156 ± 0 1.944 ± 0	6.270 ± 0 1.083 ± 0	1.614 ± 1 5.612 ± 1	1.614 ± 1 5.612 ± 1	1.614 ± 1 5.612 ± 1	1.614 ± 1 5.612 ± 1	1.614 ± 1 5.612 ± 1	1.614 ± 1 5.612 ± 1	
4.815-4	2.350 ± 0 6.146 ± 0										

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ATOMIC WEIGHT 2.4103-2				DENSITY 1.3615+1 GRAMS/CC							
ENERGY	MF (CM)		CROSS SECTION (BARN)					ENERGY DEPOSIT (MEV)			
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	1.59+2	1.59+2	1.8+2	1.330+2	1.820+3	1.033+3	1.110+0		1.324+4	6.500+0	1.043+0
5.227-9	3.28+2	3.28+2	6.95+2	1.330+2	8.768+2	5.065+2	3.110+0		6.380+3	6.465+0	1.05+0
2.091-8	5.02+2	5.02+2	5.85+2	1.330+2	5.687+2	3.198+2	3.110+0		4.137+3	6.389+0	1.018+0
3.267-8	6.20+2	6.20+2	4.7+2	1.330+2	4.582+2	2.544+2	3.110+0		3.333+3	6.341+0	9.997+1
4.404-8	7.87+2	7.87+2	3.75+2	1.330+2	3.582+2	2.014+2	3.110+0		2.606+3	6.305+0	1.004+0
8.322-8	9.79+2	9.79+2	3.00+2	1.330+2	2.850+2	1.800+2	3.110+0		2.075+3	6.371+0	1.117+0
1.307-7	9.90+2	9.90+2	2.96+2	1.193+2	2.829+2	2.091+2	3.110+0		2.061+3	6.501+0	1.312+0
1.882-7	5.45+2	5.45+2	5.30+2	2.038+2	5.280+2	4.211+2	3.110+0		3.850+3	6.884+0	1.455+0
2.561-7	6.33+3	6.33+3	3.52+3	1.076+2	3.492+3	2.461+3	3.110+0		2.544+4	6.782+0	1.299+0
3.345-7	7.237+2	7.237+2	9.081+2	1.062+2	8.917+2	5.851+2	3.110+0		6.493+3	6.634+0	1.200+0
5.234-7	6.94+2	6.94+2	4.25+2	7.432+2	4.141+2	2.076+2	3.110+0		3.011+3	6.311+0	9.129+1
5.123+7	2.64+2	2.64+2	1.112+2	1.078+2	1.977+2	4.769+2	3.110+0		7.969+3	6.239+0	7.988+1
7.457+7	1.42+2	1.42+2	2.06+2	6.929+2	1.987+2	1.158+2	3.110+0		1.446+3	6.355+0	1.043+0
1.176+6	1.652+2	1.652+2	1.780+2	3.553+2	1.742+3	1.170+3	3.110+0		1.269+4	6.643+0	1.224+0
1.511+6	9.370+2	9.371+2	3.137+2	1.068+2	3.022+2	7.964+2	3.110+0		2.192+3	5.776+0	4.730+1
2.091+6	7.208+2	7.208+2	4.079+2	1.128+2	3.954+2	1.221+2	3.110+0		2.869+3	5.897+0	5.580+1
2.741+6	4.575+2	4.577+2	6.425+2	1.984+2	5.416+2	2.265+2	3.110+0		3.935+3	5.306+0	6.567+1
3.533+6	1.710+2	1.710+2	1.719+2	2.935+2	1.621+2	2.445+2	3.110+0		1.175+3	5.446+0	2.650+1
4.704+6	5.435+2	5.436+2	5.510+2	2.009+2	5.266+2	4.062+2	3.110+0		3.840+3	6.673+0	1.373+0
5.958+6	3.102+2	3.103+2	9.477+2	1.220+2	8.232+2	2.469+2	3.110+0		5.974+3	2.268+0	4.483+1
6.737+6	6.435+2	6.439+2	4.568+2	9.971+2	3.558+2	1.316+2	3.110+0		2.584+2	4.930+0	5.366+1
8.322+6	2.682+2	2.683+2	1.096+2	2.892+2	9.948+2	2.326+2	3.110+0		7.214+2	5.289+0	3.955+1
9.620+6	1.769+2	1.769+2	1.662+2	1.093+2	1.539+2	1.246+2	3.110+0		1.123+3	6.649+0	1.508+0
1.101+5	5.081+2	5.083+2	5.786+2	1.034+2	4.742+2	1.029+2	3.110+0		3.438+2	4.840+0	3.313+1
1.307+5	4.022+2	4.023+2	7.309+2	1.015+2	6.256+2	3.836+2	3.110+0		4.553+2	5.711+0	9.776+1
1.468+5	9.047+2	9.050+2	3.249+2	3.180+2	2.913+2	1.778+2	3.110+0		5.121+2	5.978+0	1.019+1
1.581+5	2.71+2	2.715+2	1.083+2	1.377+2	9.390+2	6.257+2	3.110+0		6.839+2	2.875+0	1.070+1
1.758+5	2.36+2	2.365+2	1.243+2	1.375+2	1.100+2	6.058+2	3.110+0		8.001+2	2.795+0	9.076+1
1.882+5	2.431+2	2.432+2	1.209+2	1.374+2	1.070+2	1.296+2	3.110+0		7.753+2	5.063+0	1.997+1
2.075+5	2.526+2	2.527+2	1.16+2	1.373+2	1.023+2	3.635+2	3.110+0		7.426+2	5.426+0	5.818+1
2.27+5	2.585+2	2.586+2	1.137+2	1.373+2	9.689+2	1.258+2	3.110+0		7.232+2	6.973+0	2.127+1
2.117+5	2.659+2	2.660+2	1.105+2	1.372+2	9.571+2	1.115+2	3.110+0		7.003+2	6.703+0	1.678+1
2.561+5	2.736+2	2.737+2	1.074+2	1.372+2	9.278+2	9.351+2	3.110+0		6.779+2	6.424+0	1.622+0
2.710+5	2.801+2	2.802+2	1.049+2	1.371+2	9.035+2	8.751+2	3.110+0		6.599+2	6.338+0	1.553+0
2.862+5	2.857+2	2.858+2	1.029+2	1.371+2	8.854+2	6.375+2	3.110+0		6.414+2	5.921+0	1.154+0
2.940+5	2.913+2	2.914+2	1.009+2	1.370+2	8.688+2	5.224+2	3.110+0		6.309+2	5.715+0	9.645+1
3.099+5	3.007+2	3.009+2	9.775+2	1.368+2	8.357+2	4.835+2	3.110+0		6.081+2	5.646+0	8.215+1
3.345+5	3.114+2	3.115+2	9.441+2	1.368+2	8.040+2	3.312+2	3.110+0		5.840+2	5.380+0	5.535+1
3.601+5	3.187+2	3.188+2	2.263+2	1.367+2	7.728+2	1.681+2	3.110+0		5.725+2	8.492+0	3.774+1
3.866+5	3.289+2	3.290+2	8.838+2	1.366+2	7.460+2	1.115+2	3.110+0		5.477+2	6.956+0	2.325+0
4.048+5	3.377+2	3.379+2	8.705+2	1.366+2	7.265+2	7.359+2	3.110+0		5.309+2	6.216+0	1.575+0
4.234+5	3.440+2	3.441+2	8.546+2	1.365+2	7.141+2	4.028+2	3.110+0		5.195+2	5.986+0	8.780+1
4.329+5	3.515+2	3.517+2	8.363+2	1.364+2	6.970+2	2.651+2	3.110+0		5.063+2	5.234+0	6.373+1
4.619+5	3.592+2	3.594+2	8.183+2	1.364+2	6.798+2	2.199+2	3.110+0		4.934+2	5.077+0	5.008+1
4.717+5	3.650+2	3.652+2	8.054+2	1.363+2	6.665+2	2.609+2	3.110+0		4.841+2	5.165+0	6.019+1
4.912+5	3.728+2	3.730+2	7.885+2	1.362+2	6.489+2	3.309+2	3.110+0		4.719+2	5.327+0	7.818+1
5.123+5	3.787+2	3.788+2	7.763+2	1.361+2	6.363+2	3.880+2	3.110+0		4.631+2	5.464+0	9.311+1
5.332+5	3.851+2	3.859+2	7.621+2	1.360+2	6.220+2	4.044+2	3.110+0		4.525+2	5.505+0	9.887+1
5.554+5	3.917+2	3.919+2	7.505+2	1.359+2	6.104+2	4.221+2	3.110+0		4.446+2	5.550+0	1.048+0
5.763+5	3.962+2	3.964+2	7.420+2	1.359+2	5.994+2	7.740+2	3.110+0		4.385+2	5.645+0	1.943+0
6.097+5	3.988+2	3.991+2	7.370+2	1.357+2	5.893+2	1.692+2	3.110+0		4.343+2	5.734+0	4.078+0
6.325+5	4.008+2	4.010+2	7.335+2	1.357+2	5.749+2	2.298+2	3.110+0		4.322+2	1.037+0	5.637+0
6.557+5	4.071+2	4.073+2	7.222+2	1.356+2	5.677+2	1.689+2	3.110+0		4.241+2	9.381+0	4.673+0
6.674+5	4.154+2	4.156+2	7.077+2	1.355+2	5.579+2	1.424+2	3.110+0		4.138+2	8.223+0	3.748+0
7.034+5	4.236+2	4.238+2	6.940+2	1.354+2	5.481+2	1.052+2	3.110+0		4.040+2	7.269+0	2.823+0
7.155+5	4.319+2	4.321+2	6.806+2	1.353+2	5.380+2	7.342+2	3.110+0		3.944+2	6.426+0	2.008+0
7.527+5	4.410+2	4.413+2	6.660+2	1.352+2	5.268+2	4.603+2	3.110+0		3.844+2	7.673+0	1.287+0
7.780+5	4.458+2	4.460+2	6.504+2	1.351+2	5.208+2	3.557+2	3.110+0		3.734+2	6.277+0	1.005+0
7.908+5	4.500+2	4.503+2	6.533+2	1.350+2	5.146+2	3.589+2	3.110+0		3.746+2	5.386+0	1.024+0
8.167+5	4.556+2	4.559+2	6.452+2	1.349+2	5.064+2	3.842+2	3.110+0		3.691+2	5.559+0	1.109+0
8.431+5	4.631+2	4.633+2	6.348+2	1.348+2	4.999+2	4.158+2	3.110+0		3.617+2	5.554+0	1.220+0
8.834+5	4.708+2	4.711+2	6.244+2	1.347+2	4.853+2	4.385+2	3.110+0		3.542+2	5.624+0	1.308+0

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ATOMIC WEIGHT 2.4103 x 2		DENSITY 1.3615 x 1 GRAMS/CC										ENERGY DEPOSIT(MEV)	
ENERGY MEV	MFP (CM)		CROSS SECTION (BARNS)								ENERGY DEPOSIT(MEV)		
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
9.108-5	4.763-1	4.766-1	6.172-1	1.345-1	4.781-1	4.527-1	3.110-0	0	3.491-2	5.670-0	1.366-0		
9.886-5	4.817-1	4.820-1	6.103-1	1.344-1	4.712-1	4.671-1	3.110-0	0	3.442-2	5.718-0	1.426-0		
9.680-5	4.857-1	4.860-1	6.052-1	1.344-1	4.650-1	4.650-1	3.110-0	0	3.405-2	5.763-0	1.458-0		
9.811-5	4.909-1	4.912-1	5.988-1	1.343-1	4.589-1	5.711-1	3.110-0	0	3.360-2	6.051-0	1.777-0		
1.025-4	5.015-1	5.018-1	5.861-1	1.341-1	4.443-1	7.675-1	3.110-0	0	3.269-2	6.695-0	2.439-0		
1.099-4	5.102-1	5.105-1	5.694-1	1.340-1	4.279-1	7.526-1	3.110-0	0	3.143-2	6.683-0	2.462-0		
1.176-4	5.315-1	5.319-1	5.530-1	1.339-1	4.123-1	6.645-1	3.110-0	0	3.032-2	6.498-0	2.306-0		
1.256-4	5.459-1	5.463-1	5.395-1	1.337-1	3.973-1	7.440-1	3.110-0	0	2.927-2	6.724-0	2.574-0		
1.338-4	5.578-1	5.582-1	5.270-1	1.336-1	3.856-1	8.258-1	3.110-0	0	2.845-2	7.045-0	2.919-0		
1.406-4	5.721-1	5.725-1	5.138-1	1.334-1	3.713-1	9.146-1	3.110-0	0	2.751-2	7.412-0	3.316-0		
1.511-4	5.925-1	5.929-1	4.962-1	1.332-1	3.562-1	6.722-1	3.110-0	0	2.625-2	6.563-0	2.524-0		
1.601-4	6.100-1	6.105-1	4.819-1	1.331-1	3.440-1	4.821-1	3.110-0	0	2.523-2	5.854-0	1.864-0		
1.694-4	6.238-1	6.242-1	4.713-1	1.329-1	3.321-1	6.245-1	3.110-0	0	2.447-2	6.433-0	2.469-0		
1.768-4	6.342-1	6.347-1	4.635-1	1.327-1	3.228-1	8.001-1	3.110-0	0	2.392-2	7.165-0	3.216-0		
1.887-4	6.462-1	6.467-1	4.549-1	1.325-1	3.149-1	7.481-1	3.110-0	0	2.331-2	6.994-0	3.084-0		
1.999-4	6.590-1	6.596-1	4.461-1	1.324-1	3.069-1	6.889-1	3.110-0	0	2.269-2	6.766-0	2.877-0		
2.091-4	6.694-1	6.697-1	4.421-1	1.317-1	2.816-1	8.850-1	3.110-0	0	2.100-2	7.722-0	3.906-0		
2.241-4	7.408-1	7.415-1	3.959-1	1.309-1	2.509-1	1.503-0	3.110-0	0	1.922-2	1.081-1	7.055-0		
2.267-4	7.812-1	7.819-1	3.763-1	1.304-1	2.294-1	1.647-0	3.110-0	0	1.777-2	1.183-1	8.154-0		
2.811-4	8.308-1	8.317-1	3.538-1	1.298-1	2.066-1	1.740-0	3.110-0	0	1.618-2	1.273-1	9.160-0		
4.704-4	8.713-1	8.722-1	3.374-1	1.293-1	1.807-1	1.738-0	3.110-0	0	1.503-2	1.308-1	9.586-0		
4.961-4	9.120-1	9.130-1	3.223-1	1.289-1	1.600-1	1.344-0	3.110-0	0	1.396-2	1.114-1	7.765-0		
5.658-4	9.450-1	9.501-1	3.096-1	1.285-1	1.490-1	1.225-0	3.110-0	0	1.310-2	1.065-1	7.365-0		
6.042-4	9.681-1	9.692-1	3.037-1	1.282-1	1.627-1	1.274-0	3.110-0	0	1.268-2	1.107-1	7.815-0		
6.357-4	9.873-1	9.885-1	2.977-1	1.277-1	1.433-1	1.472-0	3.110-0	0	1.228-2	1.244-1	9.214-0		
7.156-4	1.021-0	1.022-0	2.880-1	1.269-1	1.446-1	1.651-0	3.110-0	0	1.163-2	1.387-1	1.068-1		
9.322-4	1.062-0	1.063-0	2.769-1	1.261-1	1.352-1	1.564-0	3.110-0	0	1.089-2	1.362-1	1.052-1		
9.177-4	1.098-0	1.099-0	2.677-1	1.256-1	1.265-1	1.566-0	3.110-0	0	1.027-2	1.384-1	1.091-1		
1.058-3	1.171-0	1.172-0	2.511-1	1.247-1	1.144-1	1.192-0	3.110-0	0	9.126-1	1.170-1	8.841-0		
1.307-3	1.214-0	1.216-0	2.421-1	1.237-1	1.015-1	1.594-0	3.110-0	0	8.551-1	1.585-1	1.303-1		
1.581-3	1.307-0	1.309-0	2.249-1	1.225-1	9.054-1	1.187-0	3.110-0	0	7.396-1	1.244-1	9.837-0		
1.882-3	1.376-0	1.378-0	2.136-1	1.214-1	9.0-9	1.143-0	3.110-0	0	6.659-1	1.244-1	9.966-0		
2.208-3	1.423-0	1.425-0	2.066-1	1.206-1	7.324-1	1.279-0	3.110-0	0	6.209-1	1.394-1	1.153-1		
2.561-3	1.460-0	1.463-0	2.013-1	1.197-1	6.774-1	1.382-0	3.110-0	0	5.865-1	1.515-1	1.279-1		
2.940-3	1.535-0	1.538-0	1.915-1	1.188-1	6.265-1	1.009-0	3.111-0	0	5.252-1	1.200-1	9.812-0		
3.345-3	1.584-0	1.586-0	1.856-1	1.179-1	5.822-1	9.538-1	3.111-0	0	4.892-1	1.168-1	9.572-0		
3.777-3	1.651-0	1.654-0	1.781-1	1.172-1	5.429-1	6.603-1	3.111-0	0	4.393-1	6.669-0	6.508-0		
4.234-3	1.744-0	1.748-0	1.685-1	1.157-1	4.744-1	5.432-1	3.111-0	0	3.921-1	7.791-0	6.005-0		
5.763-3	1.858-0	1.862-0	1.682-1	1.136-1	3.907-1	5.531-1	3.111-0	0	3.223-1	8.130-0	6.513-0		
7.527-3	1.948-0	1.952-0	1.609-1	1.118-1	3.203-1	7.014-1	3.111-0	0	2.819-1	1.017-1	8.662-0		
1.025-2	2.003-0	2.007-0	1.668-1	1.111-1	2.588-1	9.706-1	3.112-0	0	2.573-1	1.379-1	1.332-1		
1.511-2	2.141-0	2.146-0	1.573-1	1.102-1	2.068-1	6.406-1	3.113-0	0	1.955-1	9.870-0	8.694-0		
2.091-2	2.274-0	2.280-0	1.493-1	1.093-1	1.695-1	3.021-1	3.114-0	0	1.446-1	5.251-0	4.357-0		
2.646-2	2.342-0	2.347-0	1.255-1	1.083-1	1.432-1	2.879-1	3.115-0	0	1.246-1	5.073-0	4.275-0		
3.267-2	2.423-0	2.429-0	1.213-1	1.073-1	1.270-1	1.335-1	3.116-0	0	1.020-1	2.710-1	2.053-0		
3.953-2	2.485-0	2.492-0	1.183-1	1.061-1	1.136-1	8.271-1	3.117-0	0	8.870-0	1.625-1	1.307-0		
4.704-2	2.548-0	2.554-0	1.154-1	1.048-1	1.007-1	4.972-1	3.118-0	2.745-3	7.711-1	1.319-1	8.075-1		
5.611-2	2.609-0	2.615-0	1.127-1	1.036-1	0.821-1	1.125-2	3.120-0	3.382-2	6.537-1	6.283-1	1.914-1		
7.002-2	2.684-0	2.671-0	1.103-1	1.023-1	7.718-1	2.551-3	3.123-0	2.562-2	5.681-1	4.345-1	4.898-2		
8.322-2	2.716-0	2.725-0	1.092-1	1.009-1	6.753-1	1.043-3	3.125-0	4.106-2	5.041-1	5.358-1	1.659-1		
9.891-2	2.788-0	2.795-0	1.05-1	9.996-0	5.576-1	1.775-2	3.129-0	7.220-2	4.245-1	6.236-1	3.204-1		
1.307-1	2.887-0	3.014-0	1.014-1	9.600-0	4.080-1	3.437-2	3.137-0	1.345-1	3.288-0	8.827-1	6.358-1		
1.620-1	2.980-0	3.344-0	9.862-2	9.337-0	3.233-1	9.104-3	3.142-0	1.937-1	2.487-0	3.685-1	1.796-1		
2.075-1	3.083-0	3.534-0	9.686-2	9.178-0	2.791-1	4.795-3	3.147-0	2.737-1	2.137-1	2.692-1	1.001-1		
2.761-1	3.089-0	3.781-0	9.521-2	8.936-0	2.429-1	3.096-3	3.152-0	3.691-1	1.862-1	2.165-1	5.665-2		
2.710-1	3.133-0	4.012-0	9.303-2	8.723-0	2.195-1	3.629-3	3.157-0	4.475-1	1.697-1	2.166-1	8.017-2		
3.904-1	3.155-0	4.178-0	9.318-2	8.500-0	1.970-1	4.393-3	3.162-0	6.164-1	2.299-1	2.256-1	9.485-2		
3.545-1	3.149-0	4.403-0	9.334-2	8.207-0	1.727-1	5.498-3	3.169-0	9.407-1	3.175-1	2.435-1	1.160-1		
3.777-1	3.146-0	4.650-0	9.345-2	7.893-0	1.531-1	1.208-2	3.177-0	1.283-1	4.041-1	3.781-1	2.490-1		
5.234-1	3.180-0	4.952-0	9.244-2	7.427-0	1.305-1	8.121-2	3.189-0	1.606-1	5.355-1	1.434-1	1.643-1		
5.211-1	3.184-0	5.359-0	9.234-2	6.861-0	1.056-1	1.572-2	3.206-0	2.094-1	7.334-1	3.664-1	3.377-1		
6.325-1	3.193-0	5.072-0	9.365-2	6.314-0	8.247-2	3.474-1	3.226-0	2.621-1	9.738-1	7.343-1	6.910-1		

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ENDL 175 Group Neutron Constants

95-Am-241

ATOMIC WEIGHT 2.4103 ± 2		DENSITY 1.3615 ± 1 GRAMS/CC									
ENERGY	MEP (CM)	CROSS SECTION (BARN)									
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FSSION	NU-BAR	REMAINDER	GAM-PROD.	ENERGY DEPOSIT (MEV)	
7.527	3.239+0	5.104+0	9.077+0	5.737+0	6.189+2	7.01+1	3.26+0	0.257+0	1.218+1	1.518+1	1.444+1
8.834	3.503+0	4.493+0	8.332+0	5.118+0	4.876+2	1.108+0	3.269+0	2.117+0	1.480+1	2.571+1	2.455+1
1.025+0	3.672+0	5.730+0	8.005+0	4.727+0	3.792+2	1.350+0	3.282+0	1.690+0	1.608+1	3.281+1	3.137+1
1.176+0	3.777+0	5.829+0	7.782+0	4.458+0	3.105+2	1.498+0	3.318+0	1.796+0	1.663+1	3.741+1	3.577+1
1.338+0	3.922+0	5.992+0	7.495+0	4.170+0	2.474+2	1.605+0	3.346+0	1.695+0	1.722+1	4.451+1	3.978+1
1.511+0	4.049+0	6.133+0	7.261+0	3.930+0	2.089+2	1.591+0	3.375+0	1.619+0	1.748+1	4.5+1	4.326+1
1.684+0	4.152+0	6.266+0	7.073+0	3.726+0	1.709+2	1.766+0	3.406+0	1.563+0	1.849+1	4.32+1	4.637+1
1.875+0	4.261+0	6.393+0	6.895+0	3.530+0	1.448+2	1.844+0	3.439+0	1.507+0	1.912+1	5.194+1	4.936+1
2.091+0	4.389+0	6.446+0	6.862+0	3.465+0	1.245+2	1.909+0	3.474+0	1.475+0	1.922+1	5.405+1	5.164+1
2.305+0	4.430+0	6.451+0	6.949+0	3.517+0	1.038+2	1.975+0	3.510+0	1.448+0	1.921+1	5.519+1	5.271+1
2.530+0	4.495+0	6.513+0	7.007+0	3.577+0	9.137+1	2.000+0	3.546+0	1.421+0	1.920+1	5.544+1	5.293+1
2.741+0	4.485+0	6.614+0	7.024+0	3.625+0	8.022+1	2.000+0	3.586+0	1.391+0	1.918+1	5.532+1	5.277+1
3.011+0	4.466+0	6.740+0	7.056+0	3.692+0	6.805+1	2.000+0	3.629+0	1.358+0	1.917+1	5.507+1	5.251+1
3.267+0	4.440+0	6.844+0	7.101+0	3.770+0	5.968+1	2.000+0	3.673+0	1.325+0	1.916+1	5.473+1	5.215+1
3.533+0	4.413+0	6.961+0	7.148+0	3.952+0	5.367+1	2.000+0	3.718+0	1.291+0	1.915+1	5.437+1	5.178+1
3.811+0	4.406+0	7.107+0	7.194+0	3.931+0	4.776+1	1.999+0	3.762+0	1.259+0	1.914+1	5.401+1	5.140+1
4.069+0	4.405+0	7.216+0	7.231+0	3.995+0	4.146+1	1.977+0	3.810+0	1.265+0	1.921+1	5.315+1	5.054+1
4.395+0	4.404+0	7.286+0	7.268+0	4.033+0	3.718+1	1.945+0	3.863+0	1.287+0	1.932+1	5.207+1	4.945+1
4.704+0	4.406+0	7.355+0	7.302+0	4.077+0	3.405+1	1.915+0	3.912+0	1.317+0	1.943+1	5.107+1	4.844+1
5.011+0	4.409+0	7.443+0	7.280+0	4.066+0	3.066+1	1.883+0	3.966+0	1.328+0	1.954+1	5.041+1	4.774+1
5.353+0	4.408+0	7.570+0	7.201+0	3.999+0	2.713+1	1.870+0	4.023+0	1.329+0	1.966+1	5.084+1	4.790+1
5.658+0	4.429+0	7.687+0	7.119+0	3.930+0	2.436+1	1.990+0	4.094+0	1.197+0	1.978+1	5.439+1	5.153+1
6.042+0	4.495+0	7.838+0	7.008+0	3.839+0	2.258+1	2.132+0	4.168+0	1.035+0	1.990+1	5.867+1	5.604+1
6.367+0	4.439+0	7.914+0	6.934+0	3.735+0	2.084+1	2.239+0	4.238+0	0.996+0	2.002+1	6.200+1	5.942+1
6.737+0	4.320+0	7.983+0	6.805+0	3.616+0	1.886+1	2.227+0	4.204+0	0.950+0	2.016+1	6.307+1	6.046+1
7.156+0	4.407+0	7.956+0	6.671+0	3.494+0	1.663+1	2.224+0	4.372+0	0.950+0	2.030+1	6.396+1	6.130+1
7.548+0	4.491+0	8.025+0	6.546+0	3.391+0	1.542+1	2.213+0	4.435+0	0.950+0	2.044+1	6.483+1	6.210+1
7.910+0	4.578+0	8.095+0	6.421+0	3.258+0	1.449+1	2.202+0	4.493+0	0.950+0	2.053+1	6.573+1	6.293+1
8.322+0	4.375+0	8.162+0	6.287+0	3.149+0	1.345+1	2.188+0	4.572+0	0.950+0	2.056+1	6.671+1	6.384+1
8.787+0	4.773+0	8.220+0	6.158+0	3.030+0	1.243+1	2.176+0	4.644+0	0.951+0	2.057+1	6.769+1	6.474+1
9.177+0	4.867+0	8.252+0	6.040+0	2.909+0	1.138+1	2.162+0	4.717+0	0.968+0	2.059+1	6.860+1	6.556+1
9.665+0	4.968+0	8.278+0	5.917+0	2.782+0	1.029+1	2.148+0	4.795+0	0.957+0	2.062+1	6.957+1	6.642+1
1.012+1	5.021+0	8.287+0	5.854+0	2.715+0	1.000+1	2.134+0	4.872+0	1.004+0	2.064+1	6.958+1	6.655+1
1.058+1	5.056+0	8.295+0	5.814+0	2.670+0	1.000+1	2.121+0	4.946+0	1.022+0	2.058+1	6.993+1	6.664+1
1.101+1	5.094+0	8.302+0	5.771+0	2.622+0	1.000+1	2.108+0	5.027+0	1.040+0	2.049+1	7.003+1	6.665+1
1.155+1	5.148+0	8.348+0	5.710+0	2.573+0	1.000+1	2.208+0	5.111+0	0.985+0	2.070+1	7.404+1	7.050+1
1.199+1	5.202+0	8.420+0	5.651+0	2.538+0	1.000+1	2.398+0	5.192+0	0.943+0	2.074+1	8.105+1	7.731+1
1.250+1	5.241+0	8.491+0	5.608+0	2.511+0	1.000+1	2.496+0	5.268+0	0.930+0	2.079+1	8.476+1	8.099+1
1.307+1	5.244+0	8.531+0	5.605+0	2.515+0	1.000+1	2.499+0	5.370+0	0.900+0	2.086+1	8.436+1	8.073+1
1.354+1	5.231+0	8.559+0	5.620+0	2.535+0	1.000+1	2.498+0	5.437+0	0.900+0	2.098+1	8.391+1	8.029+1
1.386+1	5.220+0	8.577+0	5.632+0	2.551+0	1.000+1	2.480+0	5.487+0	0.900+0	2.093+1	8.357+1	7.996+1
1.413+1	5.205+0	8.595+0	5.646+0	2.570+0	1.000+1	2.476+0	5.533+0	0.900+0	2.116+1	8.318+1	7.957+1
1.441+1	5.168+0	8.617+0	5.665+0	2.591+0	1.000+1	2.473+0	5.579+0	0.900+0	2.142+1	8.278+1	7.918+1
1.468+1	5.168+0	8.640+0	5.689+0	2.620+0	0.967+0	2.468+0	5.645+0	0.900+0	2.176+1	8.222+1	7.862+1
1.518+1	5.138+0	8.682+0	5.722+0	2.650+0	0.958+0	2.460+0	5.736+0	0.900+0	2.183+1	8.146+1	7.786+1
1.575+1	5.106+0	8.759+0	5.767+0	2.733+0	0.996+0	2.453+0	5.832+0	0.900+0	2.179+1	8.066+1	7.708+1
1.633+1	5.075+0	8.712+0	5.793+0	2.747+0	0.933+0	2.445+0	5.951+0	0.900+0	2.175+1	7.996+1	7.626+1
1.692+1	5.043+0	8.607+0	5.832+0	2.782+0	0.786+0	2.437+0	6.031+0	0.900+0	2.171+1	7.905+1	7.545+1
1.752+1	5.011+0	8.843+0	5.967+0	2.937+0	0.727+0	2.429+0	6.134+0	0.900+0	2.168+1	7.825+1	7.464+1
1.813+1	4.984+0	8.880+0	5.999+0	2.877+0	0.686+0	2.421+0	6.237+0	0.900+0	2.162+1	7.752+1	7.390+1
1.875+1	4.948+0	8.916+0	5.942+0	2.933+0	0.578+0	2.408+0	6.395+0	0.900+0	2.152+1	7.648+1	7.286+1
2.000+1											
RELINANCE INTEGRALS			1.638+3	1.783+2	1.633+3	2.081+1		6.108+0	1.198+4		
MAX. ILLIAN AVERAGES			5.409+2	1.323+1	5.247+2	3.018+0	3.110+0		3.817+3		
I/E AVERAGES			1.050+2	1.018+1	9.327+1	1.169+0	3.455+0	3.489+1	6.845+2		
FISSION AVERAGES			7.860+0	4.805+0	6.674+2	1.376+0	3.670+0	1.532+0	1.533+1		
FISSION AVERAGES			5.638+0	2.598+0	9.998+4	2.479+0	5.498+0	6.000+0	2.10P+1		

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ENDL 175 Group Neutron Constants

95-Am-242

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ENDL 175 Group Neutron Constants

95-Am-242

ATOMIC WEIGHT 2.4200 ± 2				DENSITY 1.770 ± 1 GRAMS/CC								
ENERGY	HFP (CM)			CROSS SECTION (BARNs)				ENERGY DEPOSITION (MEV)				
MEV	TOTAL	TRANSPORT		TOTAL	ELASTIC	ABSORPTN	FISSION	MU-BAR	REMAINDER	GAM PROD	TOTAL	LOCAL
1.307 - 9	1.268 - 3	1.268 - 3	2.319 + 4	1.214 + 1	5.834 + 3	1.734 + 4	3.210 + 0	1.748 + 5	1.404 + 2	1.332 + 2		
5.227 - 9	2.409 - 3	2.409 - 3	1.220 + 4	1.206 + 1	2.919 + 3	9.271 + 3	3.210 + 0	9.179 + 4	1.425 + 2	1.353 + 2		
2.091 - 8	3.422 - 3	3.422 - 3	8.589 - 3	1.200 + 1	1.984 + 3	6.593 + 3	3.210 + 0	6.551 + 4	1.439 + 2	1.167 + 2		
3.267 - 8	3.781 - 3	3.781 - 3	7.775 + 3	1.197 + 1	1.731 + 3	8.032 + 3	3.210 + 0	5.831 + 4	1.454 + 2	1.382 + 2		
4.704 - 8	4.178 - 3	4.178 - 3	7.037 + 3	1.195 + 1	1.467 + 3	5.558 + 3	3.210 + 0	5.265 + 4	1.479 + 2	1.407 + 2		
4.322 - 8	4.392 - 3	4.392 - 3	6.692 + 3	1.192 + 1	1.181 + 3	5.500 + 3	3.210 + 0	4.982 + 4	1.536 + 2	1.463 + 2		
1.307 - 7	4.670 - 3	4.670 - 3	6.294 + 3	1.190 + 1	9.599 + 2	5.323 + 3	3.210 + 0	4.667 + 4	1.579 + 2	1.506 + 2		
1.082 - 7	5.949 - 3	5.949 - 3	4.941 + 3	1.190 + 1	7.244 + 2	4.205 + 3	3.210 + 0	3.659 + 4	1.589 + 2	1.515 + 2		
2.561 - 7	5.194 - 3	5.194 - 3	3.198 + 3	1.190 + 1	5.123 + 2	2.873 + 3	3.210 + 0	2.370 + 4	1.562 + 2	1.489 + 2		
3.345 - 7	1.507 - 2	1.507 - 2	1.951 + 3	1.190 + 1	3.443 + 2	1.595 + 3	3.210 + 0	1.446 + 4	1.528 + 2	1.456 + 2		
4.234 - 7	2.015 - 2	2.015 - 2	1.459 + 3	1.190 + 1	2.270 + 2	1.220 + 3	3.210 + 0	1.076 + 4	1.562 + 2	1.489 + 2		
5.123 - 7	2.583 - 2	2.583 - 2	1.138 + 3	1.190 + 1	1.138 + 2	1.012 + 3	3.210 + 0	8.277 + 3	1.657 + 2	1.584 + 2		
7.537 - 7	4.505 - 2	4.505 - 2	6.525 + 2	1.190 + 1	5.823 + 1	5.823 + 2	3.210 + 0	4.712 + 3	1.662 + 2	1.589 + 2		
1.176 - 6	5.837 - 2	5.837 - 2	5.036 + 2	1.190 + 1	4.470 + 1	4.470 + 2	3.210 + 0	3.617 + 3	1.653 + 2	1.581 + 2		
1.511 - 6	7.202 - 2	7.202 - 2	4.092 + 2	1.190 + 1	3.603 + 1	3.603 + 2	3.210 + 0	2.915 + 3	1.644 + 2	1.572 + 2		
2.091 - 6	1.065 - 1	1.065 - 1	2.759 + 2	1.193 + 1	2.400 + 1	2.400 + 2	3.210 + 0	1.842 + 3	1.620 + 2	1.549 + 2		
2.741 - 6	6.932 - 2	6.932 - 2	4.241 + 2	1.190 + 1	3.747 + 1	3.747 + 2	3.210 + 0	3.032 + 3	1.645 + 2	1.573 + 2		
5.533 - 6	7.988 - 2	7.988 - 2	3.680 + 2	1.190 + 1	3.237 + 1	3.237 + 2	3.210 + 0	2.620 + 3	1.638 + 2	1.561 + 2		
4.704 - 6	1.069 - 1	1.069 - 1	2.750 + 2	1.190 + 1	2.392 + 1	2.392 + 2	3.210 + 0	1.936 + 3	1.620 + 2	1.549 + 2		
5.658 - 6	1.155 - 1	1.155 - 1	2.544 + 2	1.190 + 1	2.205 + 1	2.205 + 2	3.210 + 0	1.784 + 3	1.614 + 2	1.543 + 2		
6.737 - 6	2.955 - 1	2.955 - 1	9.493 + 1	1.190 + 1	7.962 + 0	7.962 + 1	3.210 + 0	6.443 + 2	1.490 + 2	1.425 + 2		
8.322 - 6	2.611 - 1	2.611 - 1	1.126 + 2	1.190 + 1	9.154 + 0	9.154 + 1	3.210 + 0	7.407 + 2	1.514 + 2	1.448 + 2		
9.620 - 6	2.842 - 1	2.842 - 1	1.034 + 2	1.190 + 1	8.322 + 0	8.322 + 1	3.210 + 0	6.734 + 2	1.498 + 2	1.431 + 2		
1.101 - 5	1.902 - 1	1.902 - 1	1.546 + 2	1.190 + 1	1.297 + 1	1.297 + 2	3.210 + 0	1.050 + 3	1.563 + 2	1.494 + 2		
1.007 - 5	1.596 - 1	1.596 - 1	1.842 + 2	1.190 + 1	1.566 + 1	1.566 + 2	3.210 + 0	1.268 + 3	1.584 + 2	1.514 + 2		
1.468 - 5	2.378 - 1	2.378 - 1	1.236 + 2	1.190 + 1	1.015 + 1	1.015 + 2	3.210 + 0	8.217 + 2	1.530 + 2	1.463 + 2		
1.581 - 5	1.842 - 1	1.842 - 1	1.596 + 2	1.190 + 1	1.343 + 1	1.343 + 2	3.210 + 0	1.087 + 3	1.567 + 2	1.498 + 2		
1.758 - 5	1.866 - 1	1.866 - 1	1.575 + 2	1.190 + 1	1.324 + 1	1.324 + 2	3.210 + 0	1.071 + 3	1.565 + 2	1.497 + 2		
1.882 - 5	1.896 - 1	1.896 - 1	1.551 + 2	1.190 + 1	1.302 + 1	1.302 + 2	3.210 + 0	1.053 + 3	1.563 + 2	1.495 + 2		
2.075 - 5	2.586 - 1	2.586 - 1	1.137 + 2	1.190 + 1	9.252 + 0	9.252 + 1	3.210 + 0	7.486 + 2	1.516 + 2	1.445 + 2		
2.277 - 5	5.321 - 1	5.321 - 1	5.525 + 1	1.190 + 1	3.941 + 0	3.941 + 1	3.210 + 0	3.189 + 2	1.320 + 2	1.270 + 2		
2.417 - 5	5.844 - 1	5.844 - 1	5.030 + 1	1.190 + 1	3.491 + 0	3.491 + 1	3.210 + 0	2.825 + 2	1.292 + 2	1.236 + 2		
2.561 - 5	4.299 - 1	4.299 - 1	6.838 + 1	1.190 + 1	5.135 + 0	5.135 + 1	3.210 + 0	4.155 + 2	1.398 + 2	1.337 + 2		
2.711 - 5	2.649 - 1	2.649 - 1	1.110 + 2	1.190 + 1	9.008 + 0	9.008 + 1	3.210 + 0	7.289 + 2	1.511 + 2	1.445 + 2		
2.862 - 5	1.741 - 1	1.741 - 1	1.689 + 2	1.190 + 1	1.427 + 1	1.427 + 2	3.210 + 0	1.145 + 3	1.574 + 2	1.505 + 2		
2.940 - 5	3.161 - 1	3.161 - 1	9.301 + 1	1.190 + 1	7.373 + 0	7.373 + 1	3.210 + 0	5.967 + 2	1.476 + 2	1.412 + 2		
3.099 - 5	5.758 - 1	5.758 - 1	5.097 + 1	1.190 + 1	3.552 + 0	3.552 + 1	3.210 + 0	2.874 + 2	1.298 + 2	1.241 + 2		
3.345 - 5	2.701 - 1	2.701 - 1	1.089 + 2	1.190 + 1	8.814 + 0	8.814 + 1	3.210 + 0	7.132 + 2	1.508 + 2	1.442 + 2		
3.601 - 5	3.015 - 1	3.015 - 1	9.751 + 1	1.190 + 1	7.783 + 0	7.783 + 1	3.210 + 0	6.298 + 2	1.466 + 2	1.421 + 2		
3.866 - 5	3.595 - 1	3.595 - 1	8.177 + 1	1.190 + 1	6.352 + 0	6.352 + 1	3.210 + 0	5.140 + 2	1.447 + 2	1.383 + 2		
4.048 - 5	4.791 - 1	4.791 - 1	6.136 + 1	1.190 + 1	4.497 + 0	4.497 + 1	3.210 + 0	3.639 + 2	1.365 + 2	1.305 + 2		
4.234 - 5	5.733 - 1	5.733 - 1	5.128 + 1	1.190 + 1	3.580 + 0	3.580 + 1	3.210 + 0	2.897 + 2	1.300 + 2	1.243 + 2		
4.329 - 5	1.008 - 1	1.008 - 1	2.920 + 1	1.190 + 1	1.572 + 0	1.572 + 1	3.210 + 0	1.272 + 2	1.003 + 2	9.591 + 1		
4.619 - 5	5.778 - 1	5.778 - 1	5.087 + 1	1.190 + 1	3.543 + 0	3.543 + 1	3.210 + 0	2.967 + 2	1.297 + 2	1.240 + 2		
4.717 - 5	3.584 - 1	3.584 - 1	8.201 + 1	1.190 + 1	6.374 + 0	6.374 + 1	3.210 + 0	5.158 + 2	1.477 + 2	1.384 + 2		
4.918 - 5	2.423 - 1	2.423 - 1	1.213 + 2	1.190 + 1	9.949 + 0	9.949 + 1	3.210 + 0	8.051 + 2	1.527 + 2	1.460 + 2		
5.127 - 5	3.983 - 1	3.983 - 1	7.381 + 1	1.190 + 1	5.628 + 0	5.628 + 1	3.210 + 0	4.554 + 2	1.470 + 2	1.358 + 2		
5.332 - 5	2.994 - 1	2.994 - 1	9.819 + 1	1.190 + 1	7.845 + 0	7.845 + 1	3.210 + 0	6.348 + 2	1.488 + 2	1.423 + 2		
5.654 - 5	3.934 - 1	3.934 - 1	7.472 + 1	1.190 + 1	5.711 + 0	5.711 + 1	3.210 + 0	4.241 + 2	1.423 + 2	1.361 + 2		
5.763 - 5	4.404 - 1	4.404 - 1	6.674 + 1	1.190 + 1	4.986 + 0	4.986 + 1	3.210 + 0	4.035 + 2	1.391 + 2	1.330 + 2		
6.097 - 5	3.920 - 1	3.922 - 1	7.499 + 1	1.190 + 1	5.735 + 0	5.735 + 1	3.210 + 0	4.642 + 2	1.424 + 2	1.362 + 2		
6.325 - 5	3.754 - 1	3.755 - 1	7.831 + 1	1.190 + 1	6.038 + 0	6.038 + 1	3.210 + 0	4.886 + 2	1.436 + 2	1.373 + 2		
6.557 - 5	4.934 - 1	4.935 - 1	5.958 + 1	1.190 + 1	4.335 + 0	4.335 + 1	3.210 + 0	3.509 + 2	1.355 + 2	1.296 + 2		
6.674 - 5	5.129 - 1	5.132 - 1	5.732 + 1	1.190 + 1	4.129 + 0	4.129 + 1	3.210 + 0	3.311 + 2	1.341 + 2	1.283 + 2		
7.03 - 5	5.103 - 1	5.106 - 1	5.760 + 1	1.190 + 1	4.155 + 0	4.155 + 1	3.210 + 0	3.362 + 2	1.343 + 2	1.285 + 2		
7.155 - 5	5.115 - 1	5.112 - 1	7.153 + 1	1.190 + 1	5.421 + 0	5.421 + 1	3.210 + 0	4.581 + 2	1.411 + 2	1.350 + 2		
7.527 - 5	5.330 - 1	5.333 - 1	5.515 + 1	1.190 + 1	3.933 + 0	3.933 + 1	3.210 + 0	3.182 + 2	1.329 + 2	1.276 + 2		
7.780 - 5	6.611 - 1	6.616 - 1	4.447 + 1	1.190 + 1	2.961 + 0	2.961 + 1	3.210 + 0	2.396 + 2	1.240 + 2	1.186 + 2		
7.908 - 5	5.164 - 1	5.167 - 1	5.693 + 1	1.190 + 1	4.094 + 0	4.094 + 1	3.210 + 0	3.313 + 2	1.339 + 2	1.281 + 2		
8.167 - 5	6.347 - 1	6.351 - 1	4.632 + 1	1.190 + 1	3.129 + 0	3.129 + 1	3.210 + 0	2.532 + 2	1.258 + 2	1.203 + 2		
8.431 - 5	4.965 - 1	4.968 - 1	5.921 + 1	1.190 + 1	4.301 + 0	4.301 + 1	3.210 + 0	3.480 + 2	1.353 + 2	1.294 + 2		
8.834 - 5	6.289 - 1	6.294 - 1	4.674 + 1	1.190 + 1	3.167 + 0	3.167 + 1	3.210 + 0	2.563 + 2	1.262 + 2	1.207 + 2		

[illegible]

4.1. 19

ENDF-1.4 Group Neutron Constants

95-Am-243

Barns

04/12/76

ENGL 175 Group Neutron Constants

95-Am-243

04/12/76

ENDL 175 Group Neutron Constants

95-Am-243

ATOMIC WEIGHT 243.07 ± 2		DENSITY 1.7330 ± 1 GRAMS/CC									
ENERGY	MFP (CM)	CROSS SECTION (BARNs)									
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB	FISSION	NU-BAR	REMAINDER	GAM-PROD	TOTAL	LOCAL
1.507	1.230	1.230	2.390	1.134	2.268	9.404	2.800	0	1.604	3.849	7.353
5.227	1.420	1.421	1.215	1.134	1.052	9.136	2.800	0	7.750	6.281	1.406
2.091	1.440	1.441	8.545	1.134	7.322	8.915	2.800	0	5.223	6.621	0.190
3.267	1.409	1.401	7.277	1.134	6.056	8.705	2.800	0	4.323	6.786	2.236
4.709	1.401	1.403	6.098	1.134	4.880	8.401	2.800	0	3.482	6.968	2.575
8.322	1.565	1.566	5.189	1.140	3.968	8.072	2.800	0	2.653	7.123	2.907
1.307	1.629	1.623	4.712	1.172	3.551	7.823	2.800	0	2.949	7.165	3.103
1.882	1.647	1.652	4.490	1.213	3.201	7.652	2.800	0	2.810	7.134	3.185
2.561	1.638	1.633	4.600	1.261	3.273	7.509	2.800	0	2.360	7.974	3.045
3.345	1.637	1.631	4.487	1.315	4.099	7.344	2.800	0	2.901	6.606	2.501
4.234	1.611	1.614	5.765	1.372	4.398	7.191	2.800	0	3.286	6.445	2.337
5.123	1.548	1.550	8.282	1.450	6.764	7.052	2.800	0	6.166	6.031	1.591
7.527	1.310	1.311	2.245	1.596	2.077	6.810	2.800	0	1.688	5.552	5.674
1.176	1.605	1.605	4.677	1.547	4.542	6.646	2.800	0	5.231	4.232	2.658
1.511	1.647	1.647	6.055	1.567	5.722	6.482	2.800	0	4.236	3.330	1.997
2.091	1.611	1.612	4.105	1.628	6.144	6.342	2.800	0	1.835	5.111	2.887
2.741	1.614	1.614	2.422	1.820	2.184	6.207	2.800	0	1.543	5.331	4.889
3.533	1.369	1.370	4.011	1.251	1.698	1.605	2.800	0	1.242	5.229	2.845
4.704	1.486	1.487	1.558	1.248	1.327	6.007	2.800	0	5.188	5.216	7.205
5.658	1.904	1.905	2.995	1.714	2.708	5.914	2.800	0	5.912	5.297	3.703
6.737	1.124	1.124	2.616	2.292	2.311	5.800	2.800	0	1.511	5.166	4.143
8.322	1.893	1.896	7.551	2.265	5.229	5.728	2.800	0	3.725	5.186	1.418
9.620	1.261	1.263	9.014	2.174	6.783	5.670	2.800	0	4.820	5.256	1.176
1.101	1.126	1.108	2.644	2.344	2.344	5.597	2.800	0	4.655	5.144	3.342
1.307	1.915	1.916	1.635	2.349	1.224	5.566	2.800	0	8.647	4.976	6.729
1.468	1.531	1.533	1.912	2.653	1.641	5.491	2.800	0	1.631	5.159	5.367
1.581	1.712	1.715	1.919	2.439	5.456	5.457	2.800	0	2.893	5.032	1.288
1.758	1.874	1.881	5.005	2.240	2.710	5.421	2.800	0	1.548	5.008	2.024
1.882	1.700	1.710	4.200	2.106	2.040	5.383	2.800	0	4.452	5.095	2.396
2.075	1.773	1.774	1.658	2.384	1.414	5.336	2.800	0	1.003	5.198	6.015
2.277	1.307	1.313	5.990	2.459	3.478	5.310	2.800	0	2.488	4.855	1.652
2.417	1.409	1.411	8.624	2.326	6.254	5.293	2.800	0	4.382	5.075	1.174
2.561	1.656	1.657	1.107	2.666	8.550	5.276	2.800	0	6.062	5.067	0.908
2.710	1.182	1.187	1.565	2.239	3.453	5.258	2.800	0	2.435	4.998	1.726
2.862	1.776	1.777	1.655	2.547	1.395	5.245	2.800	0	2.674	5.134	5.923
2.940	1.975	1.980	5.923	2.257	3.600	5.231	2.800	0	5.247	4.987	1.655
3.099	1.041	1.045	7.274	2.242	4.981	5.207	2.800	0	3.546	5.062	1.338
3.245	1.216	1.218	9.141	2.472	6.612	5.178	2.800	0	4.695	4.978	1.059
3.601	1.013	1.015	9.756	2.464	7.204	5.148	2.800	0	5.138	5.004	0.862
3.866	1.915	1.925	4.251	2.173	2.027	5.122	2.800	0	4.455	4.898	2.252
4.048	1.286	1.287	1.295	2.624	1.019	5.101	2.800	0	7.213	5.016	7.412
4.234	1.784	1.785	1.648	2.348	1.318	5.084	2.800	0	9.325	4.887	5.765
4.369	1.900	1.908	4.982	2.375	2.557	5.061	2.800	0	1.838	4.726	1.899
4.619	1.336	1.337	3.527	2.185	1.291	5.039	2.800	0	9.457	4.740	6.707
4.717	1.813	1.826	3.762	2.183	1.529	5.021	2.800	0	1.713	4.775	2.458
4.910	1.652	1.662	4.419	2.181	2.189	4.982	2.800	0	1.574	4.866	2.127
5.123	1.653	1.656	7.629	2.369	5.212	4.878	2.800	0	3.707	4.905	1.195
5.332	1.657	1.660	7.622	2.426	5.149	4.786	2.800	0	3.661	4.829	1.161
5.604	1.263	1.266	2.328	2.213	5.830	4.621	2.800	0	6.093	4.017	3.711
5.763	1.188	1.191	5.666	2.162	3.459	4.502	2.800	0	2.469	4.817	1.865
6.007	1.316	1.317	7.325	2.589	4.592	4.352	2.800	0	3.377	4.589	1.112
6.325	1.901	1.921	2.969	2.147	7.782	4.254	2.800	0	5.792	4.192	2.678
6.557	1.124	1.129	5.737	2.189	3.506	4.189	2.800	0	2.500	4.695	1.365
6.774	1.512	1.514	1.010	2.576	7.478	4.102	2.800	0	5.296	4.760	7.593
7.034	1.303	1.313	4.664	2.502	2.122	4.113	2.800	0	1.524	4.112	1.508
7.155	1.745	1.746	7.854	2.573	5.241	3.922	2.800	0	3.721	4.548	9.324
7.527	1.452	1.455	7.554	2.554	4.962	3.737	2.800	0	3.863	4.501	9.420
7.780	1.562	1.581	3.074	2.223	8.137	3.737	2.800	0	5.908	3.782	2.702
7.988	1.431	1.435	7.116	2.326	4.753	3.684	2.800	0	3.376	4.587	9.676
8.167	1.411	1.415	7.098	2.315	4.746	3.617	2.800	0	3.371	4.574	9.524
8.431	1.364	1.363	8.077	2.966	5.075	3.532	2.800	0	3.601	4.218	8.174
8.834	1.425	1.426	5.418	2.372	3.012	3.446	2.800	0	2.472	4.216	1.189

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95-Am-243

04/12/76

INDL 175 Group Neutron Constants

95-Am-243

ATOMIC WEIGHT 243.07		DENSITY 1.3730		GRAMS/CC	
ENERGY	GROUP	CROSS SECTION (BARNS)	FISSION	REMAINDER	ENERGY DEPOSITION (MEV)
MEV	GROUP	TOTAL	ELASTIC	ABSORPTION	TOTAL LOCAL
0.000	1	4.420	4.420	0.000	0.000
0.000	2	4.420	4.420	0.000	0.000
0.000	3	4.420	4.420	0.000	0.000
0.000	4	4.420	4.420	0.000	0.000
0.000	5	4.420	4.420	0.000	0.000
0.000	6	4.420	4.420	0.000	0.000
0.000	7	4.420	4.420	0.000	0.000
0.000	8	4.420	4.420	0.000	0.000
0.000	9	4.420	4.420	0.000	0.000
0.000	10	4.420	4.420	0.000	0.000
0.000	11	4.420	4.420	0.000	0.000
0.000	12	4.420	4.420	0.000	0.000
0.000	13	4.420	4.420	0.000	0.000
0.000	14	4.420	4.420	0.000	0.000
0.000	15	4.420	4.420	0.000	0.000
0.000	16	4.420	4.420	0.000	0.000
0.000	17	4.420	4.420	0.000	0.000
0.000	18	4.420	4.420	0.000	0.000
0.000	19	4.420	4.420	0.000	0.000
0.000	20	4.420	4.420	0.000	0.000
0.000	21	4.420	4.420	0.000	0.000
0.000	22	4.420	4.420	0.000	0.000
0.000	23	4.420	4.420	0.000	0.000
0.000	24	4.420	4.420	0.000	0.000
0.000	25	4.420	4.420	0.000	0.000
0.000	26	4.420	4.420	0.000	0.000
0.000	27	4.420	4.420	0.000	0.000
0.000	28	4.420	4.420	0.000	0.000
0.000	29	4.420	4.420	0.000	0.000
0.000	30	4.420	4.420	0.000	0.000
0.000	31	4.420	4.420	0.000	0.000
0.000	32	4.420	4.420	0.000	0.000
0.000	33	4.420	4.420	0.000	0.000
0.000	34	4.420	4.420	0.000	0.000
0.000	35	4.420	4.420	0.000	0.000
0.000	36	4.420	4.420	0.000	0.000
0.000	37	4.420	4.420	0.000	0.000
0.000	38	4.420	4.420	0.000	0.000
0.000	39	4.420	4.420	0.000	0.000
0.000	40	4.420	4.420	0.000	0.000
0.000	41	4.420	4.420	0.000	0.000
0.000	42	4.420	4.420	0.000	0.000
0.000	43	4.420	4.420	0.000	0.000
0.000	44	4.420	4.420	0.000	0.000
0.000	45	4.420	4.420	0.000	0.000
0.000	46	4.420	4.420	0.000	0.000
0.000	47	4.420	4.420	0.000	0.000
0.000	48	4.420	4.420	0.000	0.000
0.000	49	4.420	4.420	0.000	0.000
0.000	50	4.420	4.420	0.000	0.000
0.000	51	4.420	4.420	0.000	0.000
0.000	52	4.420	4.420	0.000	0.000
0.000	53	4.420	4.420	0.000	0.000
0.000	54	4.420	4.420	0.000	0.000
0.000	55	4.420	4.420	0.000	0.000
0.000	56	4.420	4.420	0.000	0.000
0.000	57	4.420	4.420	0.000	0.000
0.000	58	4.420	4.420	0.000	0.000
0.000	59	4.420	4.420	0.000	0.000
0.000	60	4.420	4.420	0.000	0.000
0.000	61	4.420	4.420	0.000	0.000
0.000	62	4.420	4.420	0.000	0.000
0.000	63	4.420	4.420	0.000	0.000
0.000	64	4.420	4.420	0.000	0.000
0.000	65	4.420	4.420	0.000	0.000
0.000	66	4.420	4.420	0.000	0.000
0.000	67	4.420	4.420	0.000	0.000
0.000	68	4.420	4.420	0.000	0.000
0.000	69	4.420	4.420	0.000	0.000
0.000	70	4.420	4.420	0.000	0.000
0.000	71	4.420	4.420	0.000	0.000
0.000	72	4.420	4.420	0.000	0.000
0.000	73	4.420	4.420	0.000	0.000
0.000	74	4.420	4.420	0.000	0.000
0.000	75	4.420	4.420	0.000	0.000
0.000	76	4.420	4.420	0.000	0.000
0.000	77	4.420	4.420	0.000	0.000
0.000	78	4.420	4.420	0.000	0.000
0.000	79	4.420	4.420	0.000	0.000
0.000	80	4.420	4.420	0.000	0.000
0.000	81	4.420	4.420	0.000	0.000
0.000	82	4.420	4.420	0.000	0.000
0.000	83	4.420	4.420	0.000	0.000
0.000	84	4.420	4.420	0.000	0.000
0.000	85	4.420	4.420	0.000	0.000
0.000	86	4.420	4.420	0.000	0.000
0.000	87	4.420	4.420	0.000	0.000
0.000	88	4.420	4.420	0.000	0.000
0.000	89	4.420	4.420	0.000	0.000
0.000	90	4.420	4.420	0.000	0.000
0.000	91	4.420	4.420	0.000	0.000
0.000	92	4.420	4.420	0.000	0.000
0.000	93	4.420	4.420	0.000	0.000
0.000	94	4.420	4.420	0.000	0.000
0.000	95	4.420	4.420	0.000	0.000
0.000	96	4.420	4.420	0.000	0.000
0.000	97	4.420	4.420	0.000	0.000
0.000	98	4.420	4.420	0.000	0.000
0.000	99	4.420	4.420	0.000	0.000
0.000	100	4.420	4.420	0.000	0.000

04-1276

[140] 175 Group Neutron Constants

95-4m-243

[illegible]

04/10/76

ENDL-175 Group Neutron Constants

56-CA-242

04/12/75

ENCL 175 Group Neutron Constants

96-Cm-242

ATOMIC WEIGHT 2.4201 ± 2		DENSITY 9.7930 ± 0 GRAMS/CC									
ENERGY MEV	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARNs)						ENERGY DEPOSIT (MEV)	
		TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAH-PROD.	TOTAL LOCAL
1.307-9	5.612-1	5.614-1	7.328-1	1.134-1	4.704-1	1.470-1	3.260-0		4.567-2	4.263-1	3.742-1
5.227-9	9.719-1	9.726-1	1.220-1	1.134-1	2.351-1	7.49-0	3.260-0		2.283-2	3.687-1	3.238-1
7.091-9	1.274-0	1.279-0	3.211-1	1.134-1	1.587-1	4.896-0	3.260-0		1.536-2	3.331-1	2.836-1
3.267-8	1.448-0	1.409-0	2.94-1	1.134-1	1.379-1	4.004-0	3.260-0		1.317-2	2.920-1	2.566-1
4.704-8	1.564-0	1.566-0	2.623-1	1.134-1	1.174-1	3.148-0	3.260-0		1.133-2	2.577-1	2.232-1
8.322-8	1.473-0	1.475-0	2.785-1	1.140-1	1.400-1	2.446-0	3.260-0		1.222-2	1.986-1	1.634-1
1.307-7	7.395-1	7.399-1	5.546-1	1.171-1	4.176-1	1.990-0	3.260-0		3.269-2	1.126-1	6.699-0
1.882-7	4.615-1	4.617-1	8.687-1	1.210-1	7.507-1	1.689-0	3.260-0		5.753-2	8.993-0	3.535-0
2.581-7	3.636-1	3.638-1	1.110-1	1.256-1	9.694-1	1.463-0	3.260-0		7.365-2	7.531-1	2.453-1
3.345-7	2.424-1	2.425-1	1.592-1	1.308-1	1.546-1	2.191-0	3.260-0		1.169-3	6.692-1	4.419-0
4.234-7	1.807-1	1.808-1	2.269-1	1.263-1	2.122-1	2.160-0	3.260-0		1.597-3	6.181-0	9.509-1
5.123-7	3.173-1	3.174-1	1.292-1	1.444-1	1.138-1	2.001-0	3.260-0		8.595-2	6.516-1	4.441-0
7.527-7	5.603-1	5.606-1	7.321-1	1.416-1	5.923-1	8.123-1	3.260-0		4.419-2	6.681-1	2.064-0
1.176-6	6.940-1	6.945-1	5.210-1	1.371-1	4.470-1	6.877-1	3.260-0		3.397-2	6.553-1	2.164-0
1.511-6	8.227-1	8.233-1	4.266-1	1.323-1	3.603-1	5.956-1	3.260-0		2.741-2	6.430-1	2.222-0
2.091-6	1.105-1	1.106-1	3.711-1	1.260-1	2.400-1	5.139-1	3.260-0		1.831-2	5.395-1	2.575-0
2.341-6	7.720-1	7.745-1	5.427-1	1.515-1	3.747-1	4.509-1	3.260-0		2.839-2	5.669-1	1.580-0
3.533-6	8.210-1	8.217-1	4.296-1	1.718-1	3.237-1	4.097-1	3.260-0		2.454-2	5.280-1	1.524-0
4.704-6	1.023-1	1.024-1	4.208-1	1.573-1	2.392-1	4.354-1	3.260-0		1.622-2	5.503-1	2.020-0
5.600-6	1.121-1	1.122-1	3.658-1	1.359-1	2.205-1	9.464-1	3.260-0		1.718-2	8.441-1	4.812-0
6.737-6	4.832-2	4.843-2	8.468-2	7.197-2	7.952-2	1.212-2	3.260-0		9.203-2	2.768-1	2.656-1
7.322-6	7.635-1	7.652-1	5.372-1	4.343-1	9.154-1	1.139-1	3.260-0		7.665-2	5.075-1	3.945-0
9.620-6	1.086-1	1.088-1	3.778-1	1.927-1	8.322-1	1.921-1	3.260-0		6.370-1	2.239-1	9.456-1
1.101-5	1.060-1	1.062-1	3.670-1	2.558-1	1.297-1	1.446-1	3.261-0		9.181-2	2.634-1	6.951-1
1.307-5	1.043-1	1.044-1	3.924-1	2.354-1	1.566-1	1.305-1	3.260-0		1.183-2	2.912-1	6.168-1
1.468-5	1.273-1	1.275-1	5.223-1	2.196-1	1.615-1	1.199-1	3.260-0		7.691-2	2.515-1	5.917-1
1.581-5	8.094-1	8.109-1	5.768-1	7.572-1	1.343-1	1.532-1	3.260-0		1.114-2	7.352-1	5.615-0
1.758-5	1.062-1	1.064-1	3.85-1	2.520-1	1.324-1	1.788-1	3.260-0		1.004-2	2.850-1	6.611-1
1.882-5	1.124-1	1.126-1	7.649-1	2.331-1	1.302-1	1.608-1	3.260-0		9.853-2	2.886-1	8.195-1
2.075-5	1.319-1	1.321-1	5.111-1	2.15-1	9.252-1	3.549-1	3.260-0		7.181-1	7.902-0	2.121-0
2.277-5	1.264-1	1.267-1	3.244-1	2.735-1	3.941-1	1.142-1	3.260-0		3.762-1	7.505-1	6.549-0
2.417-5	1.521-1	1.525-1	2.636-1	1.318-1	3.491-1	2.830-1	3.260-0		2.816-1	2.770-1	1.953-0
2.581-5	1.462-1	1.465-1	2.826-1	2.267-1	5.135-1	2.569-1	3.260-0		4.028-1	2.815-1	1.703-0
2.710-5	1.300-1	1.303-1	3.72-1	2.230-1	9.008-1	2.300-1	3.260-0		6.810-1	3.039-1	1.356-0
2.862-5	1.124-1	1.126-1	3.655-1	2.202-1	1.427-1	2.054-1	3.260-0		1.244-2	3.334-1	1.067-0
2.940-5	1.400-1	1.403-1	2.923-1	2.174-1	7.373-1	1.883-1	3.260-0		5.656-1	2.678-1	1.195-0
3.094-5	1.667-1	1.671-1	2.61-1	2.090-1	3.552-1	1.521-1	3.261-0		2.768-1	2.019-1	1.144-0
3.345-5	6.199-1	6.213-1	6.616-1	5.468-1	8.814-1	2.471-1	3.260-0		8.356-1	7.384-1	6.945-0
3.601-5	1.277-1	1.279-1	3.213-1	2.420-1	7.783-1	1.393-1	3.260-0		5.929-1	2.220-1	8.063-1
3.866-5	1.405-1	1.408-1	2.920-1	2.274-1	6.352-1	1.018-1	3.260-0		4.930-1	1.915-1	6.485-1
4.049-5	1.519-1	1.524-1	2.700-1	2.246-1	4.497-1	1.025-1	3.276-0		3.441-1	1.684-1	7.059-1
4.234-5	1.594-1	1.589-1	2.599-1	2.221-1	3.540-1	1.030-1	3.260-0		2.754-1	1.598-1	7.398-1
4.329-5	1.736-1	1.741-1	2.362-1	2.194-1	1.572-1	1.037-1	3.260-0		1.251-1	1.229-1	8.165-1
4.619-5	1.620-1	1.623-1	2.532-1	2.168-1	3.543-1	1.044-1	3.260-0		2.728-1	1.595-1	7.668-1
4.717-5	1.467-1	1.471-1	2.795-1	2.147-1	6.374-1	1.020-1	3.260-0		4.849-1	1.026-1	6.985-1
4.918-5	1.313-1	1.315-1	3.125-1	2.119-1	9.949-1	1.057-1	3.260-0		7.527-1	2.469-1	6.292-1
5.123-5	1.395-1	1.396-1	2.947-1	2.161-1	5.268-1	2.224-1	3.260-0		5.754-1	1.563-1	1.404-1
5.332-5	1.362-1	1.365-1	3.111-1	2.202-1	7.845-1	2.365-1	3.260-0		6.044-1	1.005-1	4.461-1
5.654-5	1.491-1	1.494-1	2.751-1	2.168-1	5.711-1	1.187-1	3.260-0		4.362-1	2.018-1	8.021-1
5.763-5	1.548-1	1.552-1	2.649-1	2.138-1	4.886-1	1.259-1	3.260-0		3.824-1	1.992-1	8.640-1
6.097-5	1.527-1	1.530-1	2.665-1	2.099-1	5.736-1	1.351-1	3.260-0		3.392-1	2.190-1	9.35-1
6.325-5	1.527-1	1.531-1	2.685-1	2.067-1	6.030-1	1.426-1	3.260-0		4.624-1	2.309-1	9.877-1
6.957-5	1.645-1	1.650-1	2.492-1	2.043-1	4.335-1	1.483-1	3.260-0		3.352-1	2.144-1	1.107-0
6.674-5	1.302-1	1.306-1	2.700-1	2.060-1	4.107-1	8.657-1	3.260-0		3.707-1	7.463-1	6.260-0
7.034-5	1.548-1	1.552-1	2.650-1	2.104-1	4.155-1	5.752-1	3.260-0		3.521-1	1.505-1	4.033-0
7.155-5	1.561-1	1.564-1	2.628-1	2.068-1	5.421-1	1.752-1	3.260-0		4.185-1	2.066-1	1.240-0
7.527-5	1.708-1	1.712-1	2.471-1	1.993-1	3.933-1	1.521-1	3.260-0		3.054-1	2.159-1	1.178-0
7.780-5	1.818-1	1.823-1	2.255-1	1.946-1	2.951-1	1.381-1	3.260-0		2.316-1	1.933-1	1.138-0
7.908-5	1.795-1	1.799-1	2.295-1	1.864-1	4.094-1	1.237-1	3.260-0		3.144-1	2.069-1	1.007-0
8.167-5	2.061-1	2.066-1	1.952-1	1.667-1	3.129-1	1.04-1	3.260-0		2.418-1	1.911-1	9.758-1
8.471-5	2.371-1	2.380-1	1.748-1	1.674-1	2.431-1	1.124-1	3.260-0		4.004-1	1.376-1	1.116-0
8.834-5	1.418-1	1.421-1	2.893-1	2.557-1	3.157-1	1.908-1	3.260-0		2.508-1	1.900-1	1.226-0

04/12/76

ENDL 175 Group Neutron Constants

96-Cm-242

		ATOMIC WEIGHT 2.4201 ± 2		DENSITY 5.7980 ± 0 GRAMS/CC						ENERGY DEPOSIT (MEV)		
ENERGY	MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	1.520+0	1.573+0	2.699+0	2.255+0	4.237+0	1.975+0	3.260+0	3.313+0	2.311+0	1.361+0	3.313+0	1.361+0
9.308-5	1.097+0	1.099+0	3.740+0	4.283+0	1.570+0	3.260+0	4.323+0	8.774+0	7.805+0	7.805+0	7.805+0	7.805+0
9.660-5	1.077+0	1.080+0	3.807+0	3.307+0	4.433+0	5.674+0	3.260+0	3.723+0	3.547+0	2.72+0	3.723+0	3.547+0
9.811-5	1.089+0	1.402+0	2.755+0	2.337+0	3.699+0	2.847+0	3.260+0	3.123+0	2.806+0	1.922+0	3.123+0	1.922+0
1.025-4	1.562+0	1.565+0	2.626+0	2.203+0	3.913+0	3.154+0	3.260+0	3.154+0	3.167+0	2.287+0	3.154+0	2.287+0
1.059-4	1.684+0	1.689+0	2.436+0	2.133+0	2.677+0	3.529+0	3.260+0	2.258+0	3.429+0	2.694+0	2.258+0	2.694+0
1.176-4	1.752+0	1.766+0	2.328+0	2.070+0	2.190+0	3.925+0	3.260+0	1.919+0	3.798+0	3.135+0	1.919+0	3.135+0
1.250-4	1.266+0	1.269+0	3.241+0	2.904+0	2.837+0	5.278+0	3.260+0	2.500+0	3.650+0	3.353+0	2.500+0	3.353+0
1.330-4	1.476+0	1.480+0	2.700+0	2.362+0	3.555+0	6.079+0	3.260+0	3.099+0	4.263+0	4.070+0	3.099+0	4.070+0
1.406-4	1.671+0	1.676+0	2.454+0	2.174+0	2.374+0	4.207+0	3.260+0	2.077+0	3.869+0	3.189+0	2.077+0	3.189+0
1.511-4	1.698+0	1.692+0	2.430+0	2.052+0	2.628+0	9.431+0	3.260+0	2.788+0	6.171+0	7.217+0	2.788+0	7.217+0
1.601-4	1.745+0	1.749+0	2.351+0	1.940+0	2.677+0	1.434+0	3.260+0	3.023+0	1.245+0	1.131+0	3.023+0	1.131+0
1.654-4	1.700+0	1.704+0	2.412+0	2.013+0	3.478+0	5.130+0	3.260+0	2.969+0	4.936+0	3.955+0	2.969+0	3.955+0
1.789-4	1.469+0	1.493+0	2.754+0	2.398+0	2.234+0	1.329+0	3.260+0	2.617+0	9.801+0	8.976+0	2.617+0	8.976+0
1.887-4	1.455+0	1.476+0	1.451+0	1.399+0	3.215+0	1.357+0	3.260+0	3.371+0	5.750+0	5.020+0	3.371+0	5.020+0
1.980-4	1.781+0	1.785+0	2.303+0	1.892+0	3.952+0	1.245+0	3.260+0	3.070+0	2.277+0	2.246+0	3.070+0	2.246+0
2.091-4	1.926+0	1.951+0	1.412+0	1.371+0	3.364+0	6.466+0	3.260+0	2.979+0	3.491+0	2.910+0	2.979+0	2.910+0
2.741-4	1.588+0	1.572+0	2.616+0	2.336+0	2.377+0	4.230+0	3.260+0	2.081+0	3.646+0	3.007+0	2.081+0	3.007+0
3.267-4	1.164+0	1.181+0	1.525+0	1.548+0	2.312+0	6.595+0	3.260+0	1.267+0	2.459+0	2.142+0	1.267+0	2.142+0
3.611-4	1.911+0	1.935+0	1.453+0	1.175+0	2.039+0	7.409+0	3.260+0	1.256+0	4.798+0	3.095+0	1.256+0	3.095+0
4.701-4	1.536+0	1.560+0	1.462+0	1.488+0	1.613+0	3.315+0	3.260+0	2.314+0	5.515+0	5.031+0	2.314+0	5.031+0
4.951-4	1.933+0	1.951+0	1.916+0	1.594+0	1.701+0	5.263+0	3.260+0	1.648+0	1.895+0	1.654+0	1.648+0	1.654+0
5.658-4	1.597+0	1.601+0	2.568+0	2.397+0	1.545+0	2.162+0	3.260+0	1.311+0	1.972+0	1.566+0	1.311+0	1.566+0
6.042-4	1.634+0	1.638+0	2.511+0	2.339+0	1.500+0	2.106+0	3.260+0	1.273+0	1.963+0	1.560+0	1.273+0	1.560+0
6.367-4	1.641+0	1.646+0	2.499+0	2.329+0	1.500+0	2.017+0	3.260+0	1.244+0	1.904+0	1.501+0	1.244+0	1.501+0
7.156-4	1.659+0	1.659+0	2.478+0	2.309+0	1.500+0	1.681+0	3.260+0	1.256+0	1.889+0	1.397+0	1.256+0	1.397+0
8.322-4	1.669+0	1.674+0	2.457+0	2.290+0	1.500+0	1.700+0	3.260+0	1.247+0	1.687+0	1.287+0	1.247+0	1.287+0
9.177-4	1.686+0	1.690+0	2.433+0	2.268+0	1.496+0	1.532+0	3.260+0	1.250+0	1.569+0	1.172+0	1.250+0	1.172+0
1.050-3	1.717+0	1.722+0	2.388+0	2.230+0	1.445+0	1.409+0	3.260+0	1.183+0	1.486+0	1.097+0	1.183+0	1.097+0
1.307-3	1.762+0	1.766+0	2.328+0	2.179+0	1.387+0	1.278+0	3.260+0	1.115+0	1.391+0	1.021+0	1.115+0	1.021+0
1.581-3	1.813+0	1.818+0	2.262+0	2.122+0	1.281+0	1.134+0	3.260+0	1.040+0	1.293+0	9.327+0	1.040+0	9.327+0
1.862-3	1.871+0	1.876+0	2.192+0	2.051+0	1.205+0	1.011+0	3.260+0	9.744+0	1.206+0	8.577+0	9.744+0	8.577+0
2.208-3	1.931+0	1.936+0	2.124+0	1.995+0	1.190+0	1.006+0	3.260+0	9.625+0	1.230+0	8.758+0	9.625+0	8.758+0
2.561-3	1.999+0	2.005+0	2.051+0	1.923+0	1.180+0	1.000+0	3.260+0	9.555+0	1.271+0	9.067+0	9.555+0	9.067+0
2.940-3	2.078+0	2.083+0	1.974+0	1.847+0	1.170+0	1.000+0	3.261+0	9.478+0	1.318+0	8.424+0	9.478+0	8.424+0
3.345-3	2.169+0	2.174+0	1.891+0	1.705+0	1.159+0	1.000+0	3.261+0	9.396+0	1.373+0	8.837+0	9.396+0	8.837+0
3.777-3	2.275+0	2.280+0	1.803+0	1.678+0	1.147+0	1.000+0	3.261+0	9.309+0	1.436+0	1.032+0	9.309+0	1.032+0
4.234-3	2.353+0	2.359+0	1.607+0	1.485+0	1.121+0	1.000+0	3.261+0	9.118+0	1.602+0	1.158+0	9.118+0	1.158+0
5.763-3	3.192+0	3.200+0	1.205+0	1.167+0	1.081+0	1.000+0	3.261+0	8.819+0	1.986+0	1.448+0	8.819+0	1.448+0
7.573-3	3.449+0	3.057+0	1.345+0	1.232+0	1.027+0	1.000+0	3.262+0	8.417+0	1.874+0	1.383+0	8.417+0	1.383+0
1.025-2	3.049+0	2.415+0	1.703+0	1.597+0	9.632+0	9.911+0	2.262+0	7.937+0	1.449+0	1.083+0	7.937+0	1.083+0
1.511-2	2.374+0	2.393+0	1.718+0	1.620+0	8.699+0	9.733+0	2.263+0	7.380+0	1.392+0	1.054+0	7.380+0	1.054+0
2.091-2	2.462+0	2.469+0	1.666+0	1.575+0	8.123+0	9.544+0	2.264+0	6.781+0	1.389+0	1.067+0	6.781+0	1.067+0
2.646-2	2.562+0	2.566+0	1.601+0	1.517+0	7.443+0	9.318+0	2.265+0	6.272+0	1.396+0	1.087+0	6.272+0	1.087+0
3.267-2	2.659+0	2.666+0	1.543+0	1.466+0	6.735+0	9.130+0	2.266+0	5.736+0	1.396+0	1.102+0	5.736+0	1.102+0
4.953-2	2.745+0	2.752+0	1.494+0	1.425+0	6.015+0	8.890+0	2.267+0	5.170+0	1.393+0	1.109+0	5.170+0	1.109+0
4.704-2	2.850+0	3.012+0	1.437+0	1.374+0	5.255+0	8.569+0	2.269+0	4.333+0	1.388+0	1.114+0	4.333+0	1.114+0
5.761-2	2.970+0	3.211+0	1.381+0	1.325+0	4.402+0	8.206+0	2.271+0	3.922+0	1.334+0	1.107+0	3.922+0	1.107+0
7.002-2	3.090+0	3.334+0	1.327+0	1.278+0	3.613+0	7.779+0	2.273+0	3.579+0	1.292+0	1.092+0	3.579+0	1.092+0
9.222-2	3.203+0	3.411+0	1.280+0	1.236+0	2.909+0	7.298+0	2.276+0	3.175+0	1.237+0	1.063+0	3.175+0	1.063+0
9.891-2	3.453+0	3.779+0	1.188+0	1.142+0	2.447+0	7.371+0	2.280+0	2.398+0	1.322+0	1.157+0	2.398+0	1.157+0
1.307-1	4.055+0	4.512+0	1.011+0	9.560+0	2.294+0	8.408+0	2.287+0	2.408+0	1.235+0	1.550+0	2.408+0	1.550+0
1.820-1	4.609+0	5.598+0	8.529+0	7.882+0	2.153+0	9.368+0	2.293+0	3.384+0	1.241+0	2.279+0	3.384+0	2.279+0
2.075-1	4.769+0	5.768+0	8.243+0	7.495+0	2.043+0	1.011+0	3.298+0	4.463+0	1.218+0	2.268+0	4.463+0	2.268+0
2.417-1	4.987+0	5.921+0	8.224+0	7.346+0	1.927+0	1.091+0	3.304+0	5.753+0	1.293+0	2.473+0	5.753+0	2.473+0
2.710-1	4.997+0	6.054+0	8.207+0	7.229+0	1.331+0	1.156+0	3.308+0	6.800+0	1.271+0	2.627+0	6.800+0	2.627+0
2.940-1	4.991+0	6.128+0	8.218+0	7.086+0	1.714+0	1.317+0	3.314+0	8.292+0	1.330+0	2.986+0	8.292+0	2.986+0
3.345-1	4.955+0	6.186+0	8.277+0	6.898+0	1.561+0	1.649+0	3.321+0	1.058+0	5.305+0	3.992+0	3.321+0	3.992+0
3.777-1	4.915+0	6.238+0	8.344+0	6.701+0	1.422+0	2.135+0	3.328+0	1.288+0	3.649+0	4.765+0	3.328+0	4.765+0
4.234-1	4.838+0	6.311+0	8.478+0	6.429+0	1.233+0	1.044+0	3.341+0	5.03+0	8.424+0	8.673+0	5.03+0	8.673+0
5.123-1	4.724+0	6.050+0	8.682+0	6.013+0	1.577+0	7.830+0	3.359+0	1.740+0	1.078+0	1.760+0	1.740+0	1.760+0
6.325-1	4.681+0	6.161+0	8.761+0	5.588+0	1.498+0	1.131+0	3.379+0	1.893+0	1.320+0	2.400+0	1.893+0	2.400+0

04/12/76

ENDL 175 Group Neutron Constants

96-Cm-242

ATOMIC WEIGHT 2.4201 ± 2				DENSITY 9.7980 ± 0 GRAMS/CC			
ENERGY	HFP (CM)	TOTAL		CROSS SECTION (BARN)		ENERGY DEPOSIT (MEV)	
MEV	TOTAL	TRANSPORT	ELASTIC	ABSORPTION	FUSION	NU-BAR	REMAINDER
7.527-1	4.706-0	6.349-0	8.715-0	5.154-0	1.539-1	1.412-0	3.400-0
8.834-1	4.872-0	6.773-0	8.418-0	4.708-0	1.582-1	1.590-0	3.423-0
1.025-0	5.080-0	7.273-0	8.073-0	4.324-0	1.490-1	1.670-0	3.448-0
1.176-0	5.304-0	7.500-0	7.733-0	4.001-0	1.317-1	1.701-0	3.475-0
1.338-0	5.507-0	7.871-0	7.447-0	3.734-0	1.133-1	1.735-0	3.503-0
1.511-0	5.673-0	8.156-0	7.230-0	3.556-0	9.377-2	1.750-0	3.534-0
1.694-0	5.820-0	8.445-0	7.047-0	3.432-0	7.307-2	1.750-0	3.566-0
1.857-0	5.929-0	8.742-0	6.917-0	3.361-0	5.310-2	1.750-0	3.600-0
2.031-0	5.967-0	9.049-0	6.874-0	3.356-0	4.736-2	1.750-0	3.632-0
2.305-0	5.956-0	9.107-0	6.880-0	3.464-0	4.443-2	1.750-0	3.673-0
2.531-0	5.935-0	9.273-0	6.911-0	3.465-0	4.153-2	1.750-0	3.710-0
2.740-0	5.893-0	9.432-0	6.960-0	2.553-0	3.632-2	1.750-0	3.752-0
3.011-0	5.836-0	9.604-0	7.028-0	3.646-0	3.482-2	1.738-0	3.796-0
3.267-0	5.771-0	9.644-0	7.107-0	3.733-0	3.133-2	1.710-0	3.841-0
3.533-0	5.709-0	9.701-0	7.186-0	3.821-0	2.771-2	1.683-0	3.888-0
3.811-0	5.652-0	9.764-0	7.257-0	3.901-0	2.414-2	1.656-0	3.933-0
4.069-0	5.604-0	9.833-0	7.318-0	3.976-0	2.033-2	1.635-0	3.983-0
4.396-0	5.570-0	9.921-0	7.363-0	4.036-0	1.600-2	1.613-0	4.038-0
4.704-0	5.577-0	1.003-1	7.394-0	4.040-0	1.203-2	1.593-0	4.088-0
5.031-0	5.600-0	1.015-1	7.317-0	4.016-0	9.841-3	1.572-0	4.144-0
5.353-0	5.641-0	1.027-1	7.271-0	3.968-0	9.526-3	1.544-0	4.202-0
5.659-0	5.653-0	1.029-1	7.255-0	3.921-0	9.203-3	1.548-0	4.273-0
6.042-0	5.730-0	1.044-1	7.159-0	3.844-0	8.871-3	1.550-0	4.347-0
6.367-0	5.806-0	1.053-1	7.064-0	3.762-0	8.545-3	1.590-0	4.419-0
6.737-0	5.912-0	1.064-1	6.937-0	3.661-0	8.175-3	1.600-0	4.501-0
7.156-0	6.037-0	1.074-1	6.784-0	3.534-0	7.795-3	1.600-0	4.586-0
7.548-0	6.136-0	1.075-1	6.658-0	3.410-0	7.442-3	1.600-0	4.664-0
7.910-0	6.271-0	1.086-1	6.540-0	3.266-0	7.079-3	1.600-0	4.745-0
8.322-0	6.414-0	1.092-1	6.395-0	3.154-0	6.668-3	1.600-0	4.836-0
8.777-0	6.554-0	1.096-1	6.258-0	3.029-0	6.267-3	1.672-0	4.925-0
9.194-0	6.668-0	1.108-1	6.151-0	2.927-0	5.856-3	1.659-0	5.017-0
9.665-0	6.786-0	1.099-1	5.944-0	2.825-0	5.413-3	1.666-0	5.115-0
1.012-1	6.879-0	1.101-1	5.962-0	2.747-0	4.982-3	1.633-0	5.211-0
1.058-1	6.953-0	1.104-1	5.831-0	2.680-0	4.569-3	1.622-0	5.304-0
1.101-1	7.038-0	1.107-1	5.628-0	2.622-0	4.113-3	1.607-0	5.404-0
1.155-1	7.100-0	1.108-1	5.777-0	2.573-0	3.653-3	1.634-0	5.498-0
1.199-1	7.184-0	1.120-1	5.709-0	2.545-0	3.207-3	2.297-0	5.582-0
1.250-1	7.207-0	1.125-1	5.691-0	2.540-0	2.703-3	2.543-0	5.675-0
1.307-1	7.231-0	1.131-1	5.672-0	2.546-0	2.214-3	2.620-0	5.766-0
1.354-1	7.196-0	1.129-1	5.700-0	2.555-0	1.841-3	2.650-0	5.835-0
1.386-1	7.181-0	1.133-1	5.712-0	2.577-0	1.564-3	2.650-0	5.887-0
1.413-1	7.158-0	1.136-1	5.722-0	2.597-0	1.299-3	2.650-0	5.935-0
1.441-1	7.154-0	1.140-1	5.733-0	2.617-0	1.062-3	2.650-0	5.983-0
1.468-1	7.136-0	1.144-1	5.748-0	2.644-0	9.690-4	2.648-0	6.051-0
1.519-1	7.114-0	1.147-1	5.765-0	2.673-0	9.194-4	2.622-0	6.145-0
1.575-1	7.090-0	1.150-1	5.785-0	2.725-0	8.663-4	2.587-0	6.245-0
1.633-1	7.053-0	1.155-1	5.815-0	2.747-0	8.122-4	2.552-0	6.347-0
1.692-1	7.013-0	1.163-1	5.848-0	2.792-0	7.571-4	2.517-0	6.451-0
1.752-1	6.963-0	1.165-1	5.699-0	2.837-0	7.011-4	2.626-0	6.569-0
1.813-1	6.938-0	1.177-1	5.912-0	2.872-0	6.440-4	2.700-0	6.686-0
1.875-1	6.899-0	1.192-1	5.945-0	2.943-0	5.576-4	2.700-0	6.891-0
2.000-1							
RESONANCE INTEGRALS							
MAXWELLIAN AVERAGES							
I/E AVERAGES							
FISSION AVERAGES							
FUSION AVERAGES							

380

96-Cr-242

MeV/Collision

Barns

04/12/76

ENDL 175 Group Neutron Constants

96-Cm-243

ATOMIC WEIGHT 2.4305 ± 2				DENSITY 9.8001 ± 0 GRAMS/CC					
ENERGY MEV	MPF (CM)		CROSS SECTION (BARNs)					ENERGY DEPOSIT (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER	GAM-PROD.	TOTAL LOCAL
1.307-9	1.208-2	1.228-2	3.341-3	1.134-3	1.302-3	2.028-3	3.430-0	2.606-4	1.199-2 1.127-2
5.227-9	2.518-2	2.518-2	1.629-3	1.134-3	6.044-2	1.013-3	3.430-0	1.261-4	1.227-2 1.155-2
2.091-8	3.837-2	3.837-2	1.069-3	1.134-3	3.822-2	6.754-2	3.430-0	8.220-3	1.245-2 1.173-2
3.267-8	4.738-2	4.738-2	8.657-2	1.134-3	3.017-2	5.526-2	3.430-0	6.627-3	1.257-2 1.185-2
4.704-8	6.132-2	6.133-2	6.688-2	1.134-3	2.277-2	4.348-2	3.430-0	5.082-3	1.278-2 1.207-2
6.302-8	8.105-2	8.105-2	5.061-2	1.149-3	1.566-2	3.379-2	3.430-0	3.303-3	1.311-2 1.240-2
1.307-7	1.014-1	1.014-1	4.045-2	1.227-2	1.157-2	2.767-2	3.430-0	3.001-3	1.340-2 1.269-2
1.882-7	1.219-1	1.220-1	3.353-2	1.325-2	6.887-1	2.342-2	3.430-0	2.459-3	1.363-2 1.292-2
2.561-7	1.425-1	1.426-1	2.877-2	1.439-2	7.054-1	2.028-2	3.430-0	2.072-3	1.378-2 1.308-2
3.345-7	1.627-1	1.627-1	2.521-2	1.570-2	5.747-1	1.790-2	3.430-0	1.786-3	1.386-2 1.318-2
4.234-7	1.813-1	1.813-1	2.262-2	1.709-2	4.820-1	1.610-2	3.430-0	1.575-3	1.389-2 1.321-2
5.123-7	2.120-1	2.120-1	1.935-2	1.906-2	3.554-1	1.389-2	3.430-0	1.354-3	1.399-2 1.332-2
7.527-7	2.768-1	2.768-1	1.597-2	1.884-2	2.526-1	1.156-2	3.430-0	1.047-3	1.409-2 1.344-2
1.176-6	2.261-1	2.262-1	1.814-2	1.739-2	2.279-1	1.412-2	3.430-0	1.207-3	1.512-2 1.445-2
1.511-5	1.001-1	1.002-1	4.095-2	3.093-2	5.195-1	3.267-2	3.430-0	2.785-3	1.549-2 1.481-2
2.091-6	1.961-1	1.962-1	2.091-2	2.161-2	2.511-1	1.624-2	3.430-0	1.374-3	1.517-2 1.451-2
2.741-6	2.785-1	2.787-1	1.472-2	2.027-2	1.465-1	1.123-2	3.430-0	9.288-2	1.480-2 1.416-2
3.533-6	3.417-2	3.418-2	2.873-2	2.523-2	4.870-1	1.133-2	3.430-0	3.371-3	1.645-2 1.575-2
4.704-6	7.995-2	7.997-2	5.130-2	2.160-2	5.152-1	1.390-2	3.430-0	3.585-3	1.653-2 1.582-2
5.658-6	2.591-1	3.593-1	1.142-2	3.342-2	1.037-1	8.043-1	3.430-0	6.640-2	1.366-2 1.307-2
6.737-6	4.601-1	4.604-1	8.914-1	2.310-2	7.944-0	5.609-1	3.430-0	4.836-2	1.265-2 1.210-2
8.422-6	2.261-1	2.262-1	1.814-2	2.522-2	3.334-1	1.228-2	3.430-0	1.171-3	1.320-2 1.270-2
9.620-6	4.715-1	4.719-1	6.697-1	2.184-2	9.322-0	1.340-1	3.430-0	4.798-2	1.247-2 1.191-2
1.101-5	4.915-1	4.915-1	6.351-1	2.491-2	1.107-1	4.753-1	3.430-0	4.366-2	1.108-2 1.057-2
1.307-5	5.478-1	5.478-1	4.451-1	2.524-2	1.087-1	3.881-1	3.430-0	3.731-2	1.011-2 9.618-1
1.468-5	6.241-1	6.241-1	6.550-1	2.592-2	6.344-1	3.233-1	3.430-0	3.222-2	9.627-1 9.150-1
1.581-5	6.592-1	6.592-1	6.622-1	2.686-2	9.901-0	2.545-1	3.430-0	2.694-2	8.009-1 7.594-1
1.758-5	7.227-1	7.230-1	5.675-1	2.893-2	9.487-0	1.833-1	3.430-0	2.52-2	6.352-1 5.996-1
1.982-5	8.107-1	8.120-1	5.059-1	2.851-2	9.066-0	1.302-1	3.430-0	1.737-2	5.092-1 4.777-1
2.275-5	3.004-1	3.005-1	3.655-1	2.220-2	8.688-0	1.057-2	3.430-0	8.279-2	1.499-2 1.437-2
2.275-5	6.000-1	6.000-1	6.478-1	1.655-2	8.353-0	3.918-1	3.430-0	3.530-2	1.190-2 1.135-2
2.417-5	3.089-1	3.089-1	1.315-2	2.229-2	9.091-0	1.262-2	3.430-0	8.720-2	1.606-2 1.572-2
2.561-5	7.800-1	7.805-1	5.258-1	1.150-2	7.629-0	3.323-1	3.430-0	3.063-2	1.231-2 1.173-2
2.710-5	9.711-1	9.718-1	4.224-1	1.150-2	7.651-0	2.307-1	3.430-0	2.325-2	1.067-2 1.014-2
2.862-5	3.035-1	3.036-1	3.501-1	1.150-2	7.519-0	1.161-2	3.430-0	8.219-2	1.663-2 1.595-2
2.940-5	3.885-1	3.886-1	1.066-2	1.150-2	7.369-0	6.671-1	3.430-0	6.817-2	1.591-2 1.525-2
3.099-5	7.488-1	7.493-1	5.477-1	1.150-2	7.112-0	3.618-1	3.430-0	3.205-2	1.284-2 1.226-2
3.345-5	4.675-1	4.677-1	8.734-1	1.170-2	6.661-0	6.937-1	3.430-0	5.940-2	1.533-2 1.468-2
3.601-5	5.117-1	5.119-1	7.714-1	1.150-2	6.633-0	5.901-1	3.430-0	4.784-2	1.403-2 1.420-2
3.866-5	6.699-1	6.701-1	8.729-1	1.150-2	6.388-0	6.935-1	3.430-0	5.501-2	1.540-2 1.475-2
4.248-5	1.153-1	1.154-1	9.876-1	1.150-2	6.278-0	8.098-1	3.430-0	6.312-2	1.588-2 1.522-2
4.234-5	3.580-1	3.581-1	1.147-2	1.150-2	6.166-0	9.691-1	3.430-0	7.433-2	1.637-2 1.570-2
4.329-5	6.622-1	6.626-1	6.193-1	1.150-2	6.049-0	4.439-1	3.430-0	3.693-2	1.391-2 1.330-2
4.519-5	5.285-1	5.289-1	6.525-1	1.150-2	5.831-0	7.782-1	3.430-0	3.927-2	1.422-2 1.361-2
4.714-5	3.721-1	3.723-1	1.124-2	1.150-2	5.839-0	9.287-1	3.430-0	7.174-2	1.611-2 1.564-2
4.918-5	3.474-1	3.475-1	2.522-2	1.150-2	5.715-0	1.029-2	3.430-0	7.821-2	1.658-2 1.590-2
4.237-5	2.960-1	2.960-1	1.366-2	1.150-2	5.590-0	1.215-2	3.430-0	9.127-2	1.696-2 1.627-2
4.332-5	4.448-1	4.450-1	9.220-1	1.150-2	5.443-0	7.526-1	3.430-0	5.831-2	1.581-2 1.515-2
4.594-5	8.232-1	8.237-1	4.983-1	1.150-2	5.350-0	3.298-1	3.430-0	3.821-2	1.205-2 1.229-2
5.763-5	1.946-1	1.946-1	1.393-2	1.150-2	5.258-0	1.225-2	3.430-0	9.770-2	1.702-2 1.633-2
6.097-5	1.217-1	1.218-1	4.275-1	1.150-2	5.142-0	1.109-2	3.430-0	6.832-2	1.582-2 1.514-2
6.325-5	4.226-1	4.227-1	9.706-1	1.150-2	5.047-0	8.051-1	3.430-0	6.659-2	1.606-2 1.540-2
6.557-5	6.621-1	6.624-1	6.195-1	1.150-2	4.975-0	4.548-1	3.430-0	3.675-2	1.423-2 1.363-2
6.674-5	7.495-1	7.495-1	4.479-1	1.150-2	4.877-0	3.842-1	3.430-0	3.165-2	1.360-2 1.302-2
6.234-5	1.239-1	1.240-1	3.101-2	1.150-2	4.791-0	1.681-1	3.430-0	1.623-2	9.908-1 9.428-1
7.156-5	3.340-1	3.341-1	2.220-2	1.150-2	4.719-0	1.066-2	3.430-0	7.989-2	1.679-2 1.611-2
7.627-5	6.875-1	6.875-1	2.471-2	1.150-2	4.632-0	5.066-0	3.430-0	8.270-2	1.566-2 1.514-2
7.880-5	6.650-1	6.650-1	2.471-2	1.150-2	4.575-0	8.658-0	3.430-0	1.025-2	6.904-1 6.505-1
8.028-5	1.167-1	1.168-1	3.511-2	1.150-2	4.519-0	9.131-1	3.430-0	7.53-2	1.060-2 1.010-2
8.167-5	6.394-1	6.394-1	6.414-1	1.150-2	4.444-0	4.820-1	3.430-0	3.821-2	1.562-2 1.395-2
8.331-5	5.471-1	5.471-1	7.964-1	1.150-2	4.360-0	5.912-1	3.430-0	4.587-2	1.527-2 1.464-2
8.484-5	6.434-1	6.434-1	6.375-1	1.150-2	4.253-0	4.800-1	3.430-0	3.894-2	1.559-2 1.494-2

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.4305 ± 2				DENSITY 9.8401 ± 0 GRAMS/CC					
ENERGY	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)	
MEV		TOTAL	ELASTIC	ABSORPTN	FISSION	NU BAR	REMAINDER	GAM-PROD.	LOCAL
9.108 - 5	2.902 ± 2	1.414 ± 2	1.150 ± 2	4.195 ± 0	1.257 ± 2	1.430 ± 0	9.298 ± 2	1.719 ± 2	1.650 ± 2
9.385 - 5	1.210 ± 0	1.211 ± 0	3.391 ± 1	1.150 ± 0	1.127 ± 1	1.430 ± 0	1.668 ± 2	2.048 ± 2	1.00 ± 2
9.669 - 5	1.008 ± 0	1.008 ± 0	4.070 ± 1	1.150 ± 0	4.098 ± 0	2.511 ± 1	2.150 ± 2	1.198 ± 2	1.145 ± 2
9.811 - 5	5.260 ± 1	5.262 ± 1	7.798 ± 1	1.150 ± 0	4.041 ± 0	6.244 ± 1	4.796 ± 2	1.550 ± 2	1.487 ± 2
1.025 - 4	7.522 ± 1	7.527 ± 1	5.453 ± 1	1.150 ± 0	3.925 ± 0	3.910 ± 1	3.430 ± 0	1.390 ± 2	1.331 ± 2
1.093 - 4	7.774 ± 1	7.779 ± 1	5.276 ± 1	1.150 ± 0	3.778 ± 0	3.748 ± 1	3.430 ± 0	2.000 ± 2	1.319 ± 2
1.176 - 4	8.011 ± 1	8.019 ± 1	5.118 ± 1	1.150 ± 0	3.688 ± 0	3.602 ± 1	3.430 ± 0	2.086 ± 2	1.307 ± 2
1.256 - 4	8.259 ± 1	8.263 ± 1	4.967 ± 1	1.149 ± 0	3.559 ± 0	3.461 ± 1	3.430 ± 0	2.776 ± 2	1.294 ± 2
1.336 - 4	8.471 ± 1	8.477 ± 1	4.842 ± 1	1.149 ± 0	3.451 ± 0	3.346 ± 1	3.430 ± 0	2.686 ± 2	1.283 ± 2
1.408 - 4	8.710 ± 1	8.716 ± 1	4.709 ± 1	1.149 ± 0	3.354 ± 0	3.224 ± 1	3.430 ± 0	2.590 ± 2	1.271 ± 2
1.511 - 4	8.953 ± 1	8.959 ± 1	4.581 ± 1	1.149 ± 0	3.315 ± 0	3.100 ± 1	3.430 ± 0	2.498 ± 2	1.256 ± 2
1.601 - 4	9.167 ± 1	9.173 ± 1	4.474 ± 1	1.149 ± 0	3.309 ± 0	2.994 ± 1	3.430 ± 0	2.422 ± 2	1.242 ± 2
1.694 - 4	9.378 ± 1	9.385 ± 1	4.374 ± 1	1.149 ± 0	3.303 ± 0	2.894 ± 1	3.430 ± 0	2.351 ± 2	1.228 ± 2
1.789 - 4	9.582 ± 1	9.589 ± 1	4.261 ± 1	1.149 ± 0	3.296 ± 0	2.802 ± 1	3.430 ± 0	2.285 ± 2	1.215 ± 2
1.887 - 4	9.789 ± 1	9.797 ± 1	4.150 ± 1	1.149 ± 0	3.290 ± 0	2.712 ± 1	3.430 ± 0	2.220 ± 2	1.201 ± 2
1.989 - 4	9.983 ± 1	9.991 ± 1	4.108 ± 1	1.149 ± 0	3.283 ± 0	2.631 ± 1	3.430 ± 0	2.162 ± 2	1.189 ± 2
2.091 - 4	1.054 ± 0	1.055 ± 0	3.854 ± 1	1.149 ± 0	2.258 ± 0	2.379 ± 1	3.430 ± 0	1.981 ± 2	1.146 ± 2
2.741 - 4	1.155 ± 0	1.156 ± 0	3.551 ± 1	1.149 ± 0	3.288 ± 0	2.081 ± 1	3.430 ± 0	1.766 ± 2	1.088 ± 2
3.267 - 4	1.224 ± 0	1.226 ± 0	3.350 ± 1	1.148 ± 0	3.182 ± 0	1.983 ± 1	3.430 ± 0	1.622 ± 2	1.044 ± 2
3.811 - 4	1.304 ± 0	1.305 ± 0	3.146 ± 1	1.148 ± 0	3.134 ± 0	1.894 ± 1	3.430 ± 0	1.477 ± 2	0.940 ± 2
4.704 - 4	1.362 ± 0	1.364 ± 0	3.014 ± 1	1.148 ± 0	3.096 ± 0	1.854 ± 1	3.430 ± 0	1.380 ± 2	0.878 ± 2
4.991 - 4	1.403 ± 0	1.405 ± 0	2.922 ± 1	1.147 ± 0	3.053 ± 0	1.765 ± 1	3.430 ± 0	1.317 ± 2	0.829 ± 2
5.659 - 4	1.446 ± 0	1.448 ± 0	2.836 ± 1	1.147 ± 0	3.028 ± 0	1.686 ± 1	3.430 ± 0	1.255 ± 2	0.973 ± 2
6.042 - 4	1.472 ± 0	1.474 ± 0	2.785 ± 1	1.147 ± 0	3.004 ± 0	1.638 ± 1	3.430 ± 0	1.219 ± 2	0.931 ± 2
6.367 - 4	1.511 ± 0	1.513 ± 0	2.714 ± 1	1.147 ± 0	2.967 ± 0	1.570 ± 1	3.430 ± 0	1.168 ± 2	0.869 ± 2
7.156 - 4	1.573 ± 0	1.575 ± 0	2.607 ± 1	1.146 ± 0	2.901 ± 0	1.471 ± 1	3.430 ± 0	1.091 ± 2	0.836 ± 2
8.322 - 4	1.628 ± 0	1.630 ± 0	2.519 ± 1	1.146 ± 0	2.834 ± 0	1.390 ± 1	3.430 ± 0	1.028 ± 2	0.831 ± 2
9.177 - 4	1.687 ± 0	1.689 ± 0	2.447 ± 1	1.145 ± 0	2.764 ± 0	1.309 ± 1	3.430 ± 0	0.964 ± 2	0.708 ± 2
1.058 - 3	1.770 ± 0	1.772 ± 0	2.3 ± 1	1.144 ± 0	2.714 ± 0	1.229 ± 1	3.430 ± 0	0.837 ± 2	0.725 ± 2
1.307 - 3	1.860 ± 0	1.863 ± 0	2.205 ± 1	1.143 ± 0	2.664 ± 0	1.156 ± 1	3.430 ± 0	0.735 ± 2	0.699 ± 2
1.581 - 3	1.942 ± 0	1.945 ± 0	2.112 ± 1	1.141 ± 0	2.608 ± 0	1.102 ± 1	3.430 ± 0	0.379 ± 1	6.577 ± 1
1.882 - 3	2.017 ± 0	2.020 ± 0	2.034 ± 1	1.140 ± 0	2.547 ± 0	1.047 ± 1	3.430 ± 0	0.821 ± 1	6.156 ± 1
2.208 - 3	2.086 ± 0	2.089 ± 0	1.966 ± 1	1.138 ± 0	2.481 ± 0	0.981 ± 1	3.430 ± 0	0.342 ± 1	5.784 ± 1
2.581 - 3	2.150 ± 0	2.154 ± 0	1.907 ± 1	1.136 ± 0	2.410 ± 0	0.904 ± 1	3.430 ± 0	5.923 ± 1	5.454 ± 1
2.940 - 3	2.200 ± 0	2.203 ± 0	1.855 ± 1	1.134 ± 0	2.333 ± 0	0.869 ± 1	3.431 ± 0	5.670 ± 1	5.232 ± 1
3.345 - 3	2.224 ± 0	2.228 ± 0	1.844 ± 1	1.132 ± 0	2.252 ± 0	0.863 ± 1	3.431 ± 0	5.471 ± 1	5.177 ± 1
3.777 - 3	2.251 ± 0	2.255 ± 0	1.822 ± 1	1.130 ± 0	2.166 ± 0	0.795 ± 1	3.431 ± 0	5.317 ± 1	5.121 ± 1
4.242 - 3	2.306 ± 0	2.310 ± 0	1.779 ± 1	1.125 ± 0	1.973 ± 0	0.563 ± 1	3.431 ± 0	5.008 ± 1	5.030 ± 1
5.763 - 3	2.392 ± 0	2.397 ± 0	1.714 ± 1	1.117 ± 0	1.652 ± 0	0.323 ± 1	3.431 ± 0	4.951 ± 1	4.836 ± 1
7.527 - 3	2.512 ± 0	2.514 ± 0	1.635 ± 1	1.105 ± 0	1.218 ± 0	0.087 ± 1	3.432 ± 0	3.984 ± 1	4.875 ± 1
1.025 - 2	2.629 ± 0	2.634 ± 0	1.561 ± 1	1.098 ± 0	0.930 ± 0	3.737 ± 1	3.432 ± 0	3.454 ± 1	4.664 ± 1
1.511 - 2	2.740 ± 0	2.754 ± 0	1.497 ± 1	1.093 ± 0	0.817 ± 0	3.360 ± 1	3.433 ± 0	2.988 ± 1	4.366 ± 1
2.391 - 2	2.824 ± 0	2.851 ± 0	1.452 ± 1	1.088 ± 0	0.539 ± 0	3.092 ± 1	3.434 ± 0	2.693 ± 1	4.137 ± 1
2.646 - 2	2.889 ± 0	2.927 ± 0	1.420 ± 1	1.083 ± 0	0.404 ± 0	2.692 ± 1	3.435 ± 0	2.295 ± 1	3.966 ± 1
3.267 - 2	2.953 ± 0	3.005 ± 0	1.389 ± 1	1.077 ± 0	0.398 ± 0	2.722 ± 1	3.436 ± 0	2.281 ± 1	3.805 ± 1
3.952 - 2	3.011 ± 0	3.075 ± 0	1.362 ± 1	1.070 ± 0	0.340 ± 0	2.577 ± 1	3.438 ± 0	2.138 ± 1	3.670 ± 1
4.704 - 2	3.065 ± 0	3.150 ± 0	1.339 ± 1	1.062 ± 0	0.333 ± 0	2.434 ± 1	3.439 ± 0	2.019 ± 1	3.530 ± 1
5.761 - 2	3.117 ± 0	3.254 ± 0	1.316 ± 1	1.052 ± 0	0.284 ± 0	2.300 ± 1	3.441 ± 0	4.047 - 2	1.902 ± 1
7.002 - 2	3.134 ± 0	3.292 ± 0	1.309 ± 1	1.041 ± 0	0.207 ± 0	2.172 ± 1	3.444 ± 0	2.343 - 1	1.787 ± 1
8.322 - 2	3.080 ± 0	3.282 ± 0	1.327 ± 1	1.028 ± 0	0.239 ± 0	2.064 ± 1	3.446 ± 0	6.903 - 1	1.682 ± 1
9.831 - 2	3.017 ± 0	3.243 ± 0	1.359 ± 1	1.007 ± 0	0.216 ± 0	1.985 ± 1	3.450 ± 0	1.326 ± 0	1.605 ± 1
1.107 - 1	3.058 ± 0	3.379 ± 0	1.341 ± 1	0.993 ± 0	0.203 ± 0	1.844 ± 1	3.458 ± 0	1.573 ± 0	1.565 ± 1
1.820 - 1	3.084 ± 0	3.515 ± 0	1.330 ± 1	0.944 ± 0	0.195 ± 0	1.906 ± 1	3.464 ± 0	1.852 ± 0	1.528 ± 1
2.075 - 1	3.137 ± 0	3.608 ± 0	1.309 ± 1	0.907 ± 0	0.191 ± 0	1.888 ± 1	3.470 ± 0	1.937 ± 0	1.506 ± 1
2.417 - 1	3.17 ± 0	3.736 ± 0	1.284 ± 1	0.812 ± 0	0.1703 ± 0	1.872 ± 1	3.475 ± 0	1.985 ± 0	1.485 ± 1
2.710 - 1	3.278 ± 0	3.84 ± 0	1.263 ± 1	0.805 ± 0	0.1611 ± 0	1.859 ± 1	3.480 ± 0	2.024 ± 0	1.468 ± 1
2.940 - 1	3.320 ± 0	3.91 ± 0	1.235 ± 1	0.810 ± 0	0.1500 ± 0	1.843 ± 1	3.485 ± 0	2.050 ± 0	1.450 ± 1
3.345 - 1	3.430 ± 0	4.146 ± 0	1.196 ± 1	0.7947 ± 0	0.1354 ± 0	1.822 ± 1	3.493 ± 0	2.054 ± 0	1.443 ± 1
3.777 - 1	3.553 ± 0	4.358 ± 0	1.155 ± 1	0.7682 ± 0	0.1201 ± 0	1.806 ± 1	3.501 ± 0	2.057 ± 0	1.448 ± 1
4.234 - 1	3.737 ± 0	4.621 ± 0	1.098 ± 1	0.694 ± 0	0.965 ± 0	1.834 ± 1	3.506 ± 0	2.062 ± 0	1.450 ± 1
5.123 - 1	3.985 ± 0	4.955 ± 0	1.029 ± 1	0.626 ± 0	0.838 ± 0	1.895 ± 1	3.531 ± 0	2.069 ± 0	1.463 ± 1
6.325 - 1	4.277 ± 0	5.432 ± 0	0.950 ± 0	0.545 ± 0	0.537 ± 0	1.912 ± 0	3.552 ± 0	2.078 ± 0	1.481 ± 1

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ATOMIC WEIGHT 243.050				CROSS SECTION (BARNs)										DENSITY 9.801 g/CC				ENERGY DEPOSITION (MeV)	
ENERGY	MEP (cm)	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB	FISSION	NU BAR	PLUMMER	GAM PROD	TOTAL	LOCAL							
7.527	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
8.834	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.025	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.176	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.338	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.511	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.694	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.887	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
2.091	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
2.305	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
2.530	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
2.744	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
3.011	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
3.267	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
3.533	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
3.811	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
4.069	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
4.346	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
4.704	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
4.991	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
5.353	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
5.658	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
6.042	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
6.367	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
6.737	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
7.156	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
7.548	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
7.910	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
8.322	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
8.787	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
9.177	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
9.655	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.012	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.058	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.101	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.155	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.199	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.250	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.307	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.354	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.385	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.413	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.441	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.468	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.519	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.575	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.633	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.692	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.752	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.813	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
1.875	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
2.000	4.544	0.848	0.906	4.982	4.910	2.927	0.374	0.206	0.174	4.125	3.950								
RESONANCE INTEGRALS				1.124	3.209	2.121	2.783	2	8.499	0.681	3								
MAXWELLIAN AVERAGES				9.676	2.114	1.318	2.614	2	3.439	0	7.422	5							
1/E AVERAGES				6.420	1.199	1.693	0.475	1	3.439	0	4.856	1	3.817	2					
FISSION AVERAGES				9.276	0.605	4.222	2.999	0.800	1.633	0	2.053	1							
FISSION AVERAGES				5.683	0.589	0.071	3.219	0.870	9.233	1	2.035	1							

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ENDL 175 Group Neutron Constants

96-Cm-244

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ENDL 175 Group Neutron Constants

96-Cm-244

ATOMIC WEIGHT 2.4408 ± 2				DENSITY 9.8815 ± 0 GRAMS/CC						
ENERGY MEV	REF (CM)		CROSS SECTION (BARNS)					ENERGY DEPOSIT (MEV)		
	TOTAL	TRANSP.	TOTAL	ELASTIC	ABSORPTN	FISSIION	NU-BAR REMAINDER	GAM-PROD.	TOTAL LOCAL	
1.507-9	8.207	1.207	5.001	1.134	3.543	3.235	0	3.140	2.86	1.205
5.237-9	8.207	1.401	2.931	1.134	1.635	1.617	0	3.140	1.301	1.027
2.341-8	1.770	1.770	2.317	1.134	1.076	1.077	0	3.140	8.570	1.157
5.267-8	1.254	1.957	2.099	1.134	8.764	8.012	0	3.140	6.985	1.044
4.714-8	2.170	2.174	1.890	1.134	6.868	5.934	0	3.140	5.476	9.113
8.327-8	2.377	2.381	1.725	1.140	5.316	5.393	0	3.140	4.240	7.754
1.207-7	2.468	2.493	1.694	1.171	4.334	4.407	0	3.140	3.458	6.630
1.092-7	2.547	2.547	1.614	1.210	3.664	3.729	0	3.140	2.923	5.725
2.461-7	2.554	2.560	1.656	1.256	3.177	3.231	0	3.140	2.534	4.990
3.845-7	2.535	2.541	1.618	1.308	2.812	2.851	0	3.140	2.243	4.373
4.234-7	2.493	2.498	1.645	1.363	2.564	2.564	0	3.140	2.042	3.879
5.124-7	2.263	2.268	1.812	1.444	3.457	2.213	0	3.140	2.665	3.919
6.577-7	2.282	2.287	1.797	1.416	3.634	1.798	0	3.140	2.764	3.054
1.178-6	2.385	2.388	1.721	1.371	3.949	1.518	0	3.140	2.538	2.792
1.011-6	2.459	2.464	1.666	1.323	3.315	1.312	0	3.140	2.389	2.620
2.091-6	2.524	2.529	1.635	1.260	3.542	1.132	0	3.140	2.651	2.552
2.741-6	2.253	2.258	1.870	1.515	2.957	9.934	0	3.140	2.216	1.954
5.633-6	2.016	2.020	2.035	1.718	3.127	1.457	0	3.140	2.300	2.208
4.720-6	1.904	1.907	2.155	1.575	5.541	2.774	0	3.140	4.218	3.914
5.648-6	1.233	1.234	3.339	1.359	1.875	9.418	0	3.140	1.427	5.838
6.337-6	1.251	1.262	3.253	1.190	2.127	1.212	0	3.140	1.636	1.131
8.322-6	5.097	1.618	6.727	4.343	2.270	1.140	0	3.140	1.728	5.144
9.620-6	1.238	1.241	3.312	2.927	3.662	1.921	0	3.140	2.793	1.734
1.101-5	1.514	1.518	2.709	2.558	1.362	1.446	0	3.140	1.091	1.312
1.307-5	1.666	1.670	2.463	2.354	9.536	1.305	0	3.140	7.845	1.240
1.489-5	1.111	1.715	2.397	2.195	1.894	1.199	0	3.140	1.662	1.405
1.511-5	1.433	1.433	2.682	3.570	2.490	1.531	0	3.140	1.818	5.838
1.799-5	1.502	1.505	2.731	2.520	1.934	1.788	0	3.140	1.530	1.659
1.882-5	1.705	1.709	2.406	2.731	5.844	1.608	0	3.140	5.382	1.429
2.075-5	9.543	1.955	4.299	2.151	2.112	3.551	0	3.140	1.577	4.313
2.277-5	3.796	1.390	1.081	2.735	7.956	1.143	0	3.140	5.854	6.114
2.417-5	1.720	1.724	2.395	2.518	3.064	2.830	0	3.140	4.770	2.387
2.561-5	1.765	1.770	2.324	2.267	3.131	2.569	0	3.140	4.274	2.216
2.710-5	1.796	1.800	2.284	2.230	3.102	2.390	0	3.140	3.884	2.026
2.862-5	1.819	1.824	2.254	2.202	3.103	2.094	0	3.140	3.749	1.876
2.943-5	1.845	1.850	2.224	2.174	3.104	1.893	0	3.140	3.699	1.717
3.099-5	1.913	1.919	2.144	2.090	3.887	1.521	0	3.140	3.900	1.474
3.345-5	1.505	1.506	2.555	2.488	1.981	2.471	0	3.140	1.455	3.155
3.631-5	1.629	1.633	2.518	2.420	8.359	1.332	0	3.140	7.054	1.254
3.866-5	1.763	1.768	2.365	2.274	4.162	1.018	0	3.140	3.758	9.470
4.046-5	1.795	1.790	2.297	2.240	4.695	1.025	0	3.140	4.135	9.770
4.234-5	1.977	1.862	2.282	2.221	5.088	1.030	0	3.140	4.233	9.974
4.329-5	1.814	1.819	2.194	2.141	5.626	1.037	0	3.140	4.618	1.026
4.619-5	1.831	1.836	2.242	2.168	6.169	1.044	0	3.140	5.218	1.055
4.717-5	1.845	1.850	2.223	2.147	6.587	1.050	0	3.140	5.525	1.078
4.918-5	1.883	1.888	2.204	2.119	7.154	1.057	0	3.140	5.941	1.110
5.123-5	1.930	1.935	2.181	2.161	7.534	1.064	0	3.140	1.997	1.160
5.332-5	1.745	1.749	2.351	2.202	1.274	2.365	0	3.140	1.073	2.242
5.654-5	1.816	1.821	2.259	2.168	7.837	1.187	0	3.140	6.529	1.209
5.765-5	1.841	1.846	2.228	2.138	7.767	1.259	0	3.140	6.530	1.287
6.097-5	1.873	1.878	2.189	2.099	7.678	1.351	0	3.140	6.530	1.389
6.325-5	1.931	1.936	2.150	2.067	7.655	1.426	0	3.140	6.531	1.475
6.457-5	1.923	1.928	2.134	2.043	7.650	1.483	0	3.140	6.532	1.562
6.674-5	1.112	1.113	3.690	2.060	1.543	8.656	0	3.140	1.811	6.953
1.134-4	1.315	1.318	3.119	2.176	6.877	5.748	0	3.140	6.629	1.517
7.155-5	1.401	1.406	2.158	2.068	7.203	1.752	0	3.140	6.471	1.757
7.421-5	1.983	1.989	2.068	1.993	6.008	1.521	0	3.140	5.429	1.585
7.957-5	2.038	2.044	2.012	1.948	5.279	1.381	0	3.140	4.810	1.474
8.249-5	2.135	2.140	1.921	1.854	4.536	1.237	0	3.140	4.714	1.378
8.577-5	2.323	2.326	1.765	1.667	8.822	1.044	0	3.140	7.143	1.422
8.431-5	2.266	2.271	3.022	2.175	2.716	2.102	0	3.140	1.253	3.413
8.834-5	1.557	1.561	2.635	2.557	1.842	1.908	0	3.140	5.594	1.525

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ENDL 175 Group Neutron Constants

96-Cm-244

ATOMIC WEIGHT 2.4408 ± 2			DENSITY 9.8810 ± 0 GRAMS/CC							
ENERGY MEV	MFPI (CM)		CROSS SECTION (BARNs)						ENERGY DEPOSITION (MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	CAN-PROD.	TOTAL LOCAL
9.108-5	1.775+0	1.780+0	2.310+1	2.255+1	3.520-1	1.975-1	3.140+0		3.957+0	1.740+0 1.592+0
9.366-5	3.391+1	3.394+1	1.209+2	3.155+1	8.782+1	1.570+0	3.140+0		6.484+1	2.652+1 2.418+0
9.658-5	6.915+1	6.920+1	5.935+1	3.307+1	2.569+1	5.673+1	3.140+0		1.509+2	4.294+1 1.781+0
9.811-5	1.705+0	1.710+0	2.405+1	2.337+1	4.028-1	2.897-1	3.140+0		4.944+0	2.386+0 2.204+0
1.025-4	1.894+0	1.829+0	2.249+1	2.203+1	1.425-1	3.145-1	3.140+0		3.267+0	2.744+0 2.604+0
1.099-4	1.874+0	1.884+0	2.183+1	2.133+1	1.419-1	3.528-1	3.140+0		3.535+0	3.167+0 3.010+0
1.176-4	1.924+0	1.937+0	2.123+1	2.070+1	1.414-1	3.925-1	3.140+0		3.812+0	3.618+0 3.442+0
1.256-4	5.780+1	5.786+1	7.096+1	2.903+1	4.141+1	5.270+1	3.140+0		3.042+2	6.659+1 1.383+0
1.338-4	1.043+0	1.044+0	3.334+1	2.361+1	1.512+1	6.078+1	3.140+0		1.140+2	5.115+1 2.877+0
1.406-4	1.813+0	1.830+0	2.237+1	2.174+1	2.110-1	4.206-1	3.140+0		4.518+0	3.694+0 3.501+0
1.511-4	1.877+0	1.882+0	2.185+1	2.053+1	3.788-1	9.430-1	3.140+0		4.944+0	8.455+0 8.035+0
1.601-4	1.917+0	1.921+0	2.140+1	1.940+1	5.716-1	1.433+0	3.140+0		1.432+1	1.312+1 1.247+1
1.694-4	1.315+0	1.317+0	3.120+1	2.013+1	1.055-1	5.131-1	3.140+0		8.022+1	5.053+0 3.063+0
1.789-4	9.569+1	9.583+1	4.788+1	2.399+1	1.755-1	1.327+0	3.140+0		1.368+2	8.265+1 5.764+0
1.887-4	4.746+1	4.753+1	8.642+1	4.403+1	4.104+1	1.359+0	3.140+0		3.074+2	5.668+1 2.929+0
1.988-4	2.020+0	2.025+0	2.031+1	1.892+1	1.234+1	1.545+1	3.140+0		1.005+1	1.609+1 1.417+0
2.091-4	6.974+1	6.987+1	5.681+1	3.727+1	2.139+1	6.456+1	3.140+0		1.562+2	4.088+1 2.044+0
2.741-4	1.367+0	1.370+0	3.001+1	2.337+1	6.217+0	4.234+1	3.140+0		8.812+1	3.877+1 2.628+0
3.267-4	5.497+1	5.508+1	7.461+1	5.431+1	1.964+1	6.600+1	3.140+0		4.472+2	3.167+1 1.647+0
3.811-4	7.286+1	7.301+1	5.629+1	4.172+1	1.383+1	7.402+1	3.140+0		1.056+2	3.904+1 2.449+0
4.704-4	6.196+1	6.207+1	6.620+1	4.485+1	2.033+1	2.133+1	3.140+0		1.247+2	5.514+1 3.695+0
4.991-4	5.258+1	5.249+1	7.030+1	5.694+1	2.364+1	5.264+1	3.140+0		1.549+2	2.771+1 1.262+0
5.658-4	1.427+0	1.425+0	3.092+1	2.392+1	6.784+0	2.152+0	3.140+0		5.076+1	7.566+0 1.302+0
6.042-4	1.444+0	1.337+0	3.775+1	2.339+1	7.147+0	2.106+0	3.140+0		5.336+1	2.609+0 1.275+0
6.367-4	1.314+0	1.357+0	3.171+1	2.329+1	6.797+0	2.017+0	3.140+0		5.076+1	2.529+0 1.240+0
7.156-4	1.592+0	1.395+0	2.947+1	2.309+1	6.184+0	1.861+0	3.140+0		6.620+1	2.582+0 1.176+0
8.320-4	1.434+0	1.436+0	2.862+1	2.290+1	5.551+0	1.700+0	3.140+0		6.149+1	2.221+0 1.105+0
9.177-4	1.479+0	1.482+0	2.733+1	2.268+1	4.951+0	1.342+0	3.140+0		3.666+1	2.046+0 1.029+0
1.250-3	1.542+0	1.535+0	2.678+1	2.230+1	4.339+0	1.405+0	3.140+0		3.249+1	1.914+0 9.797+1
1.377-3	6.021+0	6.006+0	2.569+1	2.179+1	3.680+0	1.278+0	3.140+0		2.767+1	1.761+0 9.299+1
1.561-3	1.678+0	1.682+0	2.445+1	2.122+1	3.111+0	1.141+0	3.140+0		2.339+1	1.601+0 8.639+1
1.662-3	1.744+0	1.749+0	2.351+1	2.061+1	2.794+0	1.011+0	3.140+0		2.100+1	1.489+0 8.057+1
2.208-3	1.822+0	1.827+0	2.251+1	1.995+1	2.457+0	1.000+1	3.140+0		1.895+1	1.464+0 8.274+1
2.561-3	1.910+0	1.914+0	2.148+1	1.923+1	2.143+0	1.000+1	3.140+0		1.627+1	1.453+0 8.670+1
2.940-3	2.396+0	2.401+0	2.055+1	1.847+1	1.944+0	1.000+1	3.140+0		1.519+1	1.475+0 9.352+1
3.115-3	2.475+0	2.479+0	1.958+1	1.765+1	1.823+0	1.000+1	3.140+0		1.395+1	1.504+0 9.513+1
3.777-3	2.772+0	2.776+0	1.854+1	1.678+1	1.655+0	1.000+1	3.140+0		1.273+1	1.538+0 1.004+0
4.234-3	2.508+0	2.514+0	1.636+1	1.485+1	1.410+0	1.000+1	3.140+0		1.095+1	1.561+0 1.139+0
5.763-3	3.172+0	3.180+0	1.291+1	1.167+1	1.163+0	1.000+1	3.140+0		9.158+0	1.995+0 1.440+0
7.527-3	3.054+0	3.061+0	1.343+1	1.232+1	1.009+0	1.000+1	3.140+0		8.343+0	1.858+0 1.386+0
1.025-2	2.415+0	2.419+0	1.700+1	1.597+1	9.372+0	9.911+0	3.140+0		5.572+0	1.434+0 1.086+0
1.511-2	2.393+0	2.400+0	1.714+1	1.620+1	8.462+0	9.733+0	3.140+0		6.653+0	1.374+0 1.058+0
2.091-2	2.772+0	2.501+0	1.659+1	1.575+1	7.433+0	9.544+0	3.140+0		5.400+0	1.365+0 1.271+0
2.646-2	2.577+0	2.625+0	1.591+1	1.517+1	6.489+0	9.348+0	3.145+0		6.140+0	1.364+0 1.094+0
3.267-2	2.682+0	2.740+0	1.529+1	1.466+1	5.373+0	9.130+0	3.147+0		4.575+0	1.352+0 1.112+0
3.953-2	2.780+0	2.827+0	1.475+1	1.425+1	4.146+0	8.992+0	3.148+0	5.245+4	3.666+0	1.324+0 1.122+0
4.704-2	2.901+0	3.001+0	1.444+1	1.374+1	2.961+0	8.589+0	3.150+0	2.773+2	2.781+0	1.294+0 1.122+0
4.767-2	3.011+0	3.150+0	1.362+1	1.326+1	2.536+0	8.206+0	3.152+0	2.421+2	2.741+0	1.271+0 1.122+0
7.002-2	3.119+0	3.314+0	1.315+1	1.278+1	2.356+0	7.719+0	3.154+0	2.149+2	2.988+0	1.247+0 1.102+0
8.322-2	3.220+0	3.475+0	1.274+1	1.236+1	2.260+0	7.298+0	3.157+0	8.176+2	2.486+0	1.210+0 1.067+0
9.811-2	3.462+0	3.807+0	1.185+1	1.142+1	2.156+0	7.371+0	3.161+0	1.170+2	1.224+0	1.309+0 1.159+0
1.113-1	4.066+0	4.645+0	1.009+1	9.560+0	2.031+1	8.400+2	3.169+0	2.409+2	2.173+0	1.132+0 1.553+0
1.161-1	4.824+0	5.750+0	8.505+0	7.882+0	1.915+1	9.364+2	3.176+0	2.746+2	2.159+0	2.267+0 2.051+0
2.214-1	5.293+0	6.034+0	8.220+0	7.469+0	1.817+1	1.011+1	3.181+0	2.493+2	2.094+0	2.292+0 2.292+0
4.767-1	5.611+0	6.168+0	8.201+0	7.385+0	1.732+1	1.091+1	3.187+0	2.453+2	2.074+0	2.277+0 2.277+0
7.002-1	5.610+0	6.268+0	8.186+0	7.223+0	1.617+1	1.156+1	3.192+0	2.401+2	2.067+0	2.284+0 2.631+0
2.944-1	5.504+0	6.307+0	8.197+0	7.082+0	1.522+1	1.317+1	3.198+0	2.404+2	2.072+0	2.236+0 2.992+0
3.345-1	4.960+0	6.345+0	8.256+0	6.898+0	1.354+1	1.649+1	3.204+0	2.359+2	2.214+0	3.989+0 3.718+0
3.777-1	4.920+0	6.376+0	8.323+0	6.701+0	1.277+1	2.136+1	3.214+0	2.368+2	2.248+0	4.088+0 4.777+0
4.234-1	4.810+0	6.303+0	8.442+0	6.429+0	1.164+1	2.444+1	3.224+0	2.351+2	2.251+0	5.383+0 8.914+0
4.767-1	4.704+0	6.180+0	8.617+0	6.013+0	1.091+1	2.679+1	3.234+0	2.342+2	2.261+0	1.170+1 1.690+1
6.321-1	4.734+0	6.159+0	8.662+0	5.588+0	1.079+1	1.131+1	3.238+0	2.341+2	2.265+0	2.539+1 2.429+1

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ENDL 175 Group Neutron Constants

95-Cm-244

ATOMIC WEIGHT 2.4408 ± 2				DENSITY 9.8818 ± 0 GRAMS/CC							
ENERGY		WFP (CM)		CROSS SECTION (BARNS)							
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	CAP-PROD.	ENERGY DEPOSITION (MEV)	
										TOTAL	LOCAL
7.527	4.763	0.6304	0.612	5.164	5.290	1.405	3.290	1.991	1.524	3.171	3.034
8.834	4.548	0.6097	0.610	4.708	4.695	1.552	3.315	2.000	1.778	3.630	3.473
1.045	4.152	0.7114	0.790	4.324	3.599	1.520	3.342	1.980	1.881	3.953	3.782
1.175	4.374	0.7955	0.761	4.001	2.972	1.651	3.371	1.949	1.898	4.204	4.020
1.338	4.575	0.8172	0.757	3.734	2.304	1.685	3.402	1.915	1.916	4.449	4.252
1.511	4.733	0.8374	0.7155	3.556	1.998	1.705	3.434	1.880	1.917	4.617	4.410
1.694	4.867	0.8572	0.6991	3.432	1.710	1.700	3.469	1.842	1.903	4.724	4.512
1.887	4.963	0.8749	0.6793	3.361	1.511	1.700	3.505	1.803	1.888	4.805	4.583
2.091	5.097	0.8991	0.6500	3.356	1.302	1.700	3.544	1.770	1.873	4.834	4.608
2.305	5.285	0.9222	0.6253	3.404	1.082	1.700	3.584	1.737	1.857	4.825	4.597
2.532	5.563	0.9577	0.6078	3.465	0.845	1.700	3.624	1.704	1.841	4.810	4.578
2.774	5.920	0.9283	0.6408	3.553	0.623	1.700	3.668	1.669	1.823	4.776	4.542
3.011	5.861	0.9412	0.6999	3.646	0.490	1.686	3.716	1.661	1.805	4.692	4.458
3.267	5.793	0.9510	0.7080	3.733	0.428	1.660	3.764	1.662	1.788	4.571	4.336
3.532	5.726	0.9627	0.7163	3.821	0.372	1.633	3.814	1.644	1.770	4.449	4.215
3.811	5.657	0.9754	0.7237	3.901	0.317	1.606	3.863	1.625	1.752	4.337	4.100
4.069	5.617	0.9873	0.7303	3.976	0.272	1.585	3.914	1.608	1.733	4.245	4.006
4.392	5.579	0.9963	0.7352	4.036	0.236	1.563	3.976	1.590	1.712	4.163	3.923
4.704	5.583	1.008	0.7441	4.080	0.208	1.543	4.030	1.578	1.693	4.121	3.874
4.991	5.610	1.020	0.7511	4.116	0.186	1.522	4.090	1.569	1.702	4.088	3.836
5.353	5.645	1.033	0.7566	4.150	0.166	1.499	4.152	1.568	1.739	4.046	3.787
5.658	5.698	1.046	0.7600	4.181	0.149	1.479	4.224	1.566	1.771	4.127	3.856
6.042	5.734	1.056	0.7627	4.209	0.132	1.459	4.297	1.565	1.816	4.000	3.712
6.367	5.811	1.063	0.7659	4.236	0.116	1.440	4.369	1.563	1.851	3.821	3.620
6.734	5.916	1.075	0.7692	4.261	0.100	1.420	4.441	1.560	1.886	3.634	3.521
7.156	6.041	1.086	0.7720	4.284	0.084	1.400	4.513	1.558	1.906	3.501	3.432
7.546	6.140	1.088	0.7750	4.304	0.070	1.380	4.584	1.556	1.907	3.471	3.413
7.952	6.276	1.102	0.7780	4.324	0.058	1.360	4.655	1.554	1.908	3.451	3.413
8.382	6.418	1.110	0.7800	4.341	0.048	1.340	4.726	1.552	1.911	3.431	3.394
8.787	6.558	1.118	0.7820	4.357	0.039	1.320	4.797	1.550	1.911	3.411	3.374
9.177	6.672	1.123	0.7840	4.372	0.032	1.300	4.867	1.549	1.911	3.412	3.374
9.665	6.790	1.128	0.7860	4.387	0.026	1.280	4.937	1.548	1.911	3.412	3.374
1.012	6.893	1.133	0.7870	4.399	0.021	1.260	5.007	1.547	1.911	3.412	3.374
1.058	6.956	1.137	0.7880	4.409	0.017	1.240	5.077	1.546	1.911	3.412	3.374
1.101	7.043	1.141	0.7890	4.418	0.014	1.220	5.147	1.545	1.911	3.412	3.374
1.150	7.122	1.145	0.7900	4.426	0.011	1.200	5.217	1.544	1.911	3.412	3.374
1.199	7.186	1.150	0.7910	4.434	0.009	1.180	5.287	1.543	1.911	3.412	3.374
1.252	7.221	1.163	0.7920	4.441	0.007	1.160	5.357	1.542	1.911	3.412	3.374
1.307	7.194	1.165	0.7930	4.447	0.006	1.140	5.427	1.541	1.911	3.412	3.374
1.354	7.196	1.173	0.7940	4.452	0.005	1.120	5.497	1.540	1.911	3.412	3.374
1.398	7.181	1.177	0.7950	4.457	0.004	1.100	5.567	1.539	1.911	3.412	3.374
1.443	7.157	1.181	0.7960	4.461	0.003	1.080	5.637	1.538	1.911	3.412	3.374
1.488	7.154	1.186	0.7970	4.465	0.002	1.060	5.707	1.537	1.911	3.412	3.374
1.528	7.135	1.192	0.7980	4.468	0.002	1.040	5.777	1.536	1.911	3.412	3.374
1.569	7.114	1.200	0.7990	4.471	0.001	1.020	5.847	1.535	1.911	3.412	3.374
1.575	7.090	1.208	0.8000	4.474	0.001	1.000	5.917	1.534	1.911	3.412	3.374
1.633	7.052	1.215	0.8010	4.477	0.001	0.980	5.987	1.533	1.911	3.412	3.374
1.692	7.013	1.224	0.8020	4.480	0.001	0.960	6.057	1.532	1.911	3.412	3.374
1.750	6.952	1.231	0.8030	4.483	0.001	0.940	6.127	1.531	1.911	3.412	3.374
1.813	6.937	1.232	0.8040	4.485	0.001	0.920	6.197	1.530	1.911	3.412	3.374
1.875	6.898	1.240	0.8050	4.487	0.001	0.900	6.267	1.529	1.911	3.412	3.374
2.000											
RESONANCE INTEGRALS				1.086	3.438	2.621	3.560	1.675	4.784	3.784	3.634
MAXWELLIAN AVERAGES				2.219	1.136	1.949	9.800	3.140	0.000	7.643	7.643
1/E AVERAGES				6.270	1.478	3.549	2.034	3.359	3.859	2.733	2.733
FISSION AVERAGES				7.680	4.569	4.318	1.395	3.592	1.672	1.586	1.586
FISSION AVERAGES				5.716	2.083	1.594	3.647	0.870	4.841	2.277	2.277

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ATOMIC WEIGHT 245.61 ± 2				DENSITY 9.9194 ± 0 GRAMS/CC					
ENERGY	MF	ICM	CROSS SECTION (BARN.)						ENERGY DEPOSITION (MEV)
KEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL LOCAL
1.307-9	4.793-3	4.793-3	8.565-3	2.041-1	1.302-3	7.235-3	3.600-0	6.243-4	1.643-2 1.570-2
5.227-9	1.017-2	1.017-2	4.031-3	2.019-1	6.044-2	3.407-3	3.600-0	2.933-4	1.642-2 1.569-2
2.291-9	1.596-2	1.596-2	2.570-3	2.007-1	1.822-2	2.169-3	3.600-0	1.866-4	1.639-2 1.566-2
5.267-8	2.015-2	2.015-2	2.035-3	2.003-1	3.017-2	1.713-3	3.600-0	1.473-4	1.636-2 1.563-2
4.704-8	2.709-2	2.709-2	1.444-3	2.002-1	1.227-2	1.271-3	3.600-0	1.092-4	1.632-2 1.559-2
8.322-8	3.790-2	3.790-2	1.111-3	2.001-1	1.566-2	9.055-2	3.600-0	7.760-3	1.626-2 1.594-2
1.307-7	3.039-2	3.791-2	8.139-2	1.998-1	1.157-2	6.783-2	3.600-0	5.799-3	1.619-2 1.547-2
1.662-7	5.433-2	6.433-2	6.176-2	1.995-1	8.887-1	5.288-2	3.600-0	4.510-3	1.611-2 1.540-2
2.561-7	7.949-2	7.950-2	5.160-2	1.994-1	7.054-1	4.255-2	3.600-0	3.620-3	1.602-2 1.531-2
3.345-7	9.541-2	9.541-2	4.299-2	1.991-1	5.747-1	3.525-2	3.600-0	2.992-3	1.593-2 1.523-2
4.234-7	1.107-1	1.107-1	3.706-2	1.987-1	4.820-1	3.025-2	3.600-0	2.557-3	1.585-2 1.516-2
5.123-7	1.339-1	1.339-1	3.064-2	1.981-1	3.554-1	2.510-2	3.600-0	2.084-3	1.590-2 1.521-2
7.527-7	1.794-1	1.795-1	2.286-2	1.941-1	2.526-1	1.839-2	3.600-0	1.521-3	1.562-2 1.494-2
1.176-6	2.010-1	2.011-1	2.040-2	1.853-1	2.279-1	1.627-2	3.600-0	1.349-3	1.548-2 1.481-2
1.511-6	1.032-1	1.032-1	3.974-2	1.873-1	5.361-1	3.267-2	3.600-0	2.761-3	1.527-2 1.527-2
2.091-6	1.972-1	1.973-1	2.079-2	2.063-1	2.491-1	1.634-2	3.600-0	1.363-3	1.526-2 1.459-2
2.741-6	2.817-1	2.818-1	1.456-2	1.863-1	1.466-1	1.123-2	3.600-0	9.221-2	1.497-2 1.432-2
3.533-6	8.532-2	8.532-2	4.907-2	1.870-1	4.870-1	4.133-2	3.600-0	3.349-3	1.660-2 1.597-2
4.704-6	7.893-2	7.893-2	5.137-2	2.837-1	5.152-1	4.398-2	3.600-0	3.561-3	1.641-2 1.572-2
5.659-6	3.581-1	3.583-1	1.445-2	2.372-1	1.037-1	8.043-1	3.600-0	6.983-2	1.363-2 1.304-2
6.737-6	4.343-1	4.677-1	8.833-2	2.229-1	7.944-1	5.609-1	3.600-0	4.800-2	1.276-2 1.221-2
8.322-6	4.294-1	2.295-1	1.789-2	2.265-1	3.334-1	1.228-2	3.600-0	1.155-3	1.339-2 1.276-2
9.620-6	7.766-1	4.769-1	8.606-1	2.093-1	5.322-0	5.581-1	3.600-0	4.755-2	1.260-2 1.204-2
1.101-5	5.753-1	5.755-1	7.230-1	1.270-1	1.107-1	4.753-1	3.600-0	4.316-2	1.298-2 1.238-2
1.307-5	6.767-1	6.771-1	1.606-1	1.030-1	1.087-1	3.883-1	3.600-0	3.681-2	1.249-2 1.190-2
1.468-5	7.679-1	7.682-1	5.341-1	1.075-1	1.034-1	3.233-1	3.600-0	3.174-2	1.182-2 1.124-2
1.581-5	8.910-1	8.916-1	4.603-1	1.068-1	9.901-0	2.545-1	3.600-0	2.649-2	1.082-2 1.027-2
1.758-5	1.066-0	1.067-0	3.847-1	1.055-1	9.487-0	1.033-1	3.600-0	2.108-2	3.365-1 2.849-1
1.662-5	1.254-0	1.255-0	3.270-1	1.062-1	9.066-0	1.302-1	3.600-0	1.695-2	7.870-1 7.393-1
2.075-5	3.284-0	3.284-0	1.249-2	1.050-1	8.668-0	1.057-2	3.600-0	8.279-2	1.639-2 1.571-2
2.277-5	7.062-0	7.165-0	1.508-1	1.055-1	8.333-0	3.918-1	3.600-0	3.492-2	1.313-2 1.253-2
2.417-5	3.126-1	3.126-1	1.312-2	1.052-1	6.951-0	1.125-2	3.600-0	8.683-2	1.662-2 1.594-2
2.561-5	7.952-0	7.956-1	5.156-1	1.050-1	7.858-0	3.323-1	3.600-0	3.027-2	1.254-2 1.196-2
2.710-5	9.949-0	9.956-1	4.122-2	1.049-1	7.656-0	2.307-1	3.600-0	2.290-2	1.093-2 1.039-2
2.662-5	3.058-1	3.059-1	1.341-2	1.048-1	7.519-0	1.161-2	3.600-0	8.284-2	1.676-2 1.608-2
2.940-5	3.923-1	3.924-1	1.046-2	1.047-1	7.369-0	8.671-1	3.600-0	6.783-2	1.607-2 1.540-2
3.099-5	7.635-1	7.637-1	5.373-1	1.046-1	7.112-0	3.616-1	3.600-0	3.172-2	1.309-2 1.250-2
3.345-5	7.732-1	4.734-1	8.668-1	1.045-1	6.860-0	5.937-1	3.600-0	5.508-2	1.551-2 1.486-2
3.601-5	5.391-1	5.393-1	7.608-1	1.043-1	6.634-0	5.901-1	3.600-0	4.754-2	1.504-2 1.440-2
3.866-5	7.756-1	4.759-1	8.620-1	1.042-1	6.438-0	6.935-1	3.600-0	5.471-2	1.559-2 1.494-2
4.048-5	4.200-1	4.201-1	9.766-1	1.041-1	6.279-0	8.098-1	3.600-0	6.283-2	1.505-2 1.450-2
4.234-5	3.614-1	3.615-1	1.135-2	1.040-1	6.186-0	9.691-1	3.600-0	7.405-2	1.653-2 1.596-2
4.329-5	6.742-1	6.745-1	6.084-1	1.040-1	6.049-0	4.439-1	3.600-0	3.666-2	1.416-2 1.355-2
4.619-5	6.393-1	6.396-1	6.415-1	1.040-1	4.931-0	4.782-1	3.600-0	3.899-2	1.446-2 1.389-2
4.717-5	3.759-1	3.760-1	1.091-2	1.040-1	5.639-0	7.090-1	3.600-0	7.090-2	1.648-2 1.581-2
4.918-5	3.445-1	3.446-1	1.191-2	1.040-1	5.716-0	1.029-2	3.600-0	7.794-2	1.674-2 1.606-2
5.123-5	2.983-1	2.984-1	1.375-2	1.040-1	5.590-0	1.215-2	3.600-0	9.101-2	1.710-2 1.641-2
5.332-5	4.502-1	4.503-1	9.111-1	1.040-1	5.443-0	7.526-1	3.600-0	5.806-2	1.600-2 1.534-2
5.654-5	8.417-1	8.422-1	4.873-1	1.040-1	5.350-0	3.298-1	3.600-0	2.786-2	1.315-2 1.257-2
5.783-5	2.968-1	2.969-1	1.382-2	1.040-1	5.258-0	1.225-2	3.600-0	9.116-2	1.716-2 1.647-2
6.097-5	3.245-1	3.246-1	1.264-2	1.040-1	5.142-0	1.099-2	3.600-0	8.308-2	1.697-2 1.629-2
6.325-5	4.274-1	4.275-1	9.536-1	1.040-1	5.047-0	8.051-1	3.600-0	6.145-2	1.624-2 1.556-2
6.557-5	6.740-1	6.743-1	6.065-1	1.040-1	4.975-0	4.548-1	3.600-0	3.652-2	1.449-2 1.388-2
6.674-5	7.639-1	7.643-1	5.369-1	1.040-1	4.877-0	3.842-1	3.600-0	3.142-2	1.388-2 1.329-2
7.034-5	1.282-0	1.283-0	3.200-1	1.040-1	4.791-0	1.691-1	3.600-0	1.601-2	1.025-2 9.756-1
7.155-5	3.371-1	3.372-1	1.217-2	1.039-1	4.719-0	1.066-2	3.600-0	7.967-2	1.695-2 1.626-2
7.527-5	1.971-1	1.974-1	2.081-1	1.037-1	4.630-0	5.806-0	3.600-0	6.057-1	5.535-1 5.182-1
1.780-5	1.737-0	1.740-0	2.361-1	1.036-1	4.575-0	6.669-0	3.600-0	1.704-2	7.220-1 5.820-1
7.908-5	1.206-0	1.207-0	3.400-1	1.035-1	4.519-0	1.913-1	3.600-0	1.742-2	1.056-2 1.015-2
8.167-5	6.511-1	6.514-1	6.293-1	1.033-1	4.444-0	4.820-1	3.600-0	3.800-2	1.483-2 1.421-2
8.431-5	5.558-1	5.560-1	7.379-1	1.033-1	4.368-0	5.912-1	3.600-0	4.567-2	1.552-2 1.488-2
8.834-5	6.555-1	6.558-1	6.257-1	1.031-1	4.253-0	4.800-1	3.600-0	3.770-2	1.487-2 1.425-2

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ATOMIC WEIGHT 2.4501 ± 2				DENSITY 9.919 ± 0 GRAMS/CC						
ENERGY		HFP (CM)		CROSS SECTION (BARNS)						
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	F ISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
5.108 -5	2.926 -1	2.927 -1	1.402 ± 2	1.030 ± 1	4.196 ± 0	1.257 ± 2	3.600 ± 0	9.278 ± 2	1.734 ± 2	1.665 ± 2
9.385 -5	1.254 ± 0	1.255 ± 0	3.270 ± 1	1.029 ± 1	4.140 ± 0	1.827 ± 1	3.600 ± 0	1.694 ± 2	1.088 ± 2	1.039 ± 2
9.568 -5	1.039 ± 0	1.040 ± 0	3.048 ± 1	1.028 ± 1	4.058 ± 0	2.511 ± 1	3.600 ± 0	2.131 ± 2	1.235 ± 2	1.181 ± 2
9.811 -5	5.762 ± 1	5.765 ± 1	7.118 ± 1	1.027 ± 1	4.041 ± 0	5.687 ± 1	3.600 ± 0	4.381 ± 2	1.547 ± 2	1.484 ± 2
1.025 -4	8.037 ± 1	8.041 ± 1	5.103 ± 1	1.026 ± 1	3.925 ± 0	3.687 ± 1	3.600 ± 0	2.951 ± 2	1.401 ± 2	1.342 ± 2
1.059 -4	4.807 ± 1	4.809 ± 1	8.532 ± 1	1.021 ± 1	3.778 ± 0	7.134 ± 1	3.600 ± 0	5.385 ± 2	1.618 ± 2	1.553 ± 2
1.176 -4	7.032 ± 1	7.036 ± 1	5.832 ± 1	1.019 ± 1	3.664 ± 0	4.447 ± 1	3.600 ± 0	3.459 ± 2	1.477 ± 2	1.416 ± 2
1.256 -4	9.268 ± 1	9.274 ± 1	4.425 ± 1	1.019 ± 1	3.559 ± 0	3.051 ± 1	3.600 ± 0	2.469 ± 2	1.337 ± 2	1.280 ± 2
1.318 -4	6.730 ± 1	6.733 ± 1	6.094 ± 1	1.018 ± 1	3.461 ± 0	4.730 ± 1	3.600 ± 0	3.653 ± 2	1.503 ± 2	1.441 ± 2
1.405 -4	6.664 ± 1	6.667 ± 1	6.154 ± 1	1.017 ± 1	3.354 ± 0	4.802 ± 1	3.600 ± 0	3.694 ± 2	1.511 ± 2	1.449 ± 2
1.511 -4	9.515 ± 1	9.521 ± 1	4.311 ± 1	1.016 ± 1	3.315 ± 0	2.963 ± 1	3.600 ± 0	2.385 ± 2	1.333 ± 2	1.276 ± 2
1.601 -4	9.027 ± 1	9.032 ± 1	4.544 ± 1	1.015 ± 1	3.309 ± 0	3.158 ± 1	3.600 ± 0	2.552 ± 2	1.364 ± 2	1.307 ± 2
1.694 -4	1.075 ± 0	1.076 ± 0	3.814 ± 1	1.014 ± 1	3.303 ± 0	2.470 ± 1	3.600 ± 0	2.034 ± 2	1.257 ± 2	1.202 ± 2
1.789 -4	1.264 ± 0	1.265 ± 0	3.244 ± 1	1.013 ± 1	3.296 ± 0	1.901 ± 1	3.600 ± 0	1.630 ± 2	1.139 ± 2	1.089 ± 2
1.887 -4	1.142 ± 0	1.143 ± 0	3.590 ± 1	1.012 ± 1	3.290 ± 0	2.249 ± 1	3.600 ± 0	1.976 ± 2	1.216 ± 2	1.153 ± 2
1.990 -4	9.189 ± 1	9.195 ± 1	4.453 ± 1	1.011 ± 1	3.283 ± 0	3.124 ± 1	3.600 ± 0	2.847 ± 2	1.357 ± 2	1.300 ± 2
2.091 -4	1.163 ± 0	1.164 ± 0	3.528 ± 1	1.009 ± 1	3.258 ± 0	2.193 ± 1	3.600 ± 0	1.834 ± 2	1.207 ± 2	1.154 ± 2
2.741 -4	1.130 ± 0	1.131 ± 0	3.630 ± 1	1.008 ± 1	3.218 ± 0	2.300 ± 1	3.600 ± 0	1.907 ± 2	1.230 ± 2	1.177 ± 2
7.267 -4	1.443 ± 0	1.444 ± 0	2.843 ± 1	1.005 ± 1	3.182 ± 0	1.518 ± 1	3.600 ± 0	1.349 ± 2	1.039 ± 2	0.918 ± 2
3.811 -4	1.289 ± 0	1.291 ± 0	3.181 ± 1	1.004 ± 1	3.134 ± 0	1.863 ± 1	3.600 ± 0	1.589 ± 2	1.139 ± 2	1.089 ± 2
4.704 -4	1.212 ± 0	1.213 ± 0	3.383 ± 1	1.003 ± 1	3.095 ± 0	2.070 ± 1	3.600 ± 0	1.733 ± 2	1.180 ± 2	1.137 ± 2
4.991 -4	1.519 ± 0	1.521 ± 0	2.699 ± 1	1.002 ± 1	3.063 ± 0	1.391 ± 1	3.600 ± 0	1.248 ± 2	1.003 ± 2	0.957 ± 2
5.656 -4	1.396 ± 0	1.397 ± 0	2.938 ± 1	1.000 ± 1	3.028 ± 0	1.635 ± 1	3.600 ± 0	1.418 ± 2	1.082 ± 2	1.034 ± 2
6.042 -4	1.515 ± 0	1.517 ± 0	2.707 ± 1	1.000 ± 1	3.004 ± 0	1.407 ± 1	3.600 ± 0	1.254 ± 2	1.011 ± 2	0.964 ± 2
6.367 -4	1.432 ± 0	1.433 ± 0	2.787 ± 1	1.000 ± 1	2.987 ± 0	1.450 ± 1	3.600 ± 0	1.110 ± 2	1.040 ± 2	0.930 ± 2
7.156 -4	1.538 ± 0	1.540 ± 0	2.667 ± 1	1.000 ± 1	2.901 ± 0	1.377 ± 1	3.600 ± 0	1.224 ± 2	1.004 ± 2	0.987 ± 2
8.322 -4	1.674 ± 0	1.676 ± 0	2.450 ± 1	1.000 ± 1	2.834 ± 0	1.167 ± 1	3.600 ± 0	1.069 ± 2	0.773 ± 2	0.843 ± 2
9.177 -4	1.727 ± 0	1.729 ± 0	2.375 ± 1	1.000 ± 1	2.764 ± 0	1.099 ± 1	3.600 ± 0	1.051 ± 2	0.912 ± 2	0.850 ± 2
1.050 -3	1.695 ± 0	1.697 ± 0	2.420 ± 1	1.000 ± 1	2.714 ± 0	1.149 ± 1	3.600 ± 0	1.046 ± 2	0.924 ± 2	0.881 ± 2
1.107 -3	1.756 ± 0	1.758 ± 0	2.336 ± 1	1.000 ± 1	2.684 ± 0	1.070 ± 1	3.600 ± 0	0.960 ± 2	0.821 ± 2	0.804 ± 2
1.581 -3	1.922 ± 0	1.925 ± 0	2.134 ± 1	1.000 ± 1	2.608 ± 0	0.730 ± 1	3.600 ± 0	0.845 ± 2	0.783 ± 2	0.757 ± 2
1.892 -3	2.061 ± 0	2.054 ± 0	1.990 ± 1	1.000 ± 1	2.547 ± 0	0.750 ± 1	3.600 ± 0	0.739 ± 2	0.719 ± 2	0.680 ± 2
2.208 -3	2.108 ± 0	2.111 ± 0	1.946 ± 1	1.000 ± 1	2.481 ± 0	0.977 ± 1	3.600 ± 0	0.706 ± 2	0.701 ± 2	0.659 ± 2
2.561 -3	2.197 ± 0	2.200 ± 0	1.867 ± 1	1.000 ± 1	2.410 ± 0	0.626 ± 1	3.601 ± 0	0.649 ± 2	0.562 ± 2	0.628 ± 2
2.940 -3	2.221 ± 0	2.224 ± 0	1.847 ± 1	1.000 ± 1	2.333 ± 0	0.636 ± 1	3.601 ± 0	0.641 ± 2	0.500 ± 2	0.616 ± 2
3.345 -3	2.185 ± 0	2.188 ± 0	1.877 ± 1	1.000 ± 1	2.252 ± 0	0.620 ± 1	3.601 ± 0	0.544 ± 2	0.788 ± 2	0.650 ± 2
3.777 -3	2.242 ± 0	2.246 ± 0	1.829 ± 1	1.000 ± 1	2.166 ± 0	0.626 ± 1	3.631 ± 0	0.619 ± 2	0.547 ± 2	0.619 ± 2
4.234 -3	2.337 ± 0	2.361 ± 0	1.740 ± 1	1.000 ± 1	1.973 ± 0	0.5429 ± 1	3.601 ± 0	0.533 ± 2	0.610 ± 2	0.784 ± 2
5.763 -3	2.443 ± 0	2.447 ± 0	1.679 ± 1	1.000 ± 1	1.652 ± 0	0.537 ± 1	3.601 ± 0	0.503 ± 2	0.575 ± 2	0.682 ± 2
7.527 -3	2.635 ± 0	2.640 ± 0	1.557 ± 1	1.000 ± 1	1.218 ± 0	0.348 ± 1	3.602 ± 0	0.423 ± 2	0.544 ± 2	0.518 ± 2
1.025 -2	2.804 ± 0	2.810 ± 0	1.463 ± 1	1.000 ± 1	0.930 ± 1	0.732 ± 1	3.602 ± 0	0.341 ± 2	0.470 ± 2	0.473 ± 2
1.511 -2	2.954 ± 0	2.960 ± 0	1.389 ± 1	1.000 ± 1	0.817 ± 1	0.304 ± 1	3.603 ± 0	0.855 ± 2	0.488 ± 2	0.428 ± 2
2.091 -2	3.059 ± 0	3.066 ± 0	1.341 ± 1	1.000 ± 1	0.539 ± 1	0.853 ± 1	3.605 ± 0	0.498 ± 2	0.437 ± 2	0.395 ± 2
2.646 -2	3.127 ± 0	3.134 ± 0	1.312 ± 1	1.000 ± 1	0.409 ± 1	0.635 ± 1	3.606 ± 0	0.280 ± 2	0.395 ± 2	0.330 ± 2
3.257 -2	3.170 ± 0	3.177 ± 0	1.294 ± 1	1.000 ± 1	0.398 ± 1	0.539 ± 1	3.607 ± 0	0.243 ± 2	0.381 ± 2	0.344 ± 2
3.953 -2	3.196 ± 0	3.203 ± 0	1.283 ± 1	1.000 ± 1	0.340 ± 1	0.489 ± 1	3.608 ± 0	0.260 ± 2	0.365 ± 2	0.362 ± 2
4.704 -2	3.209 ± 0	3.222 ± 0	1.278 ± 1	1.000 ± 1	0.233 ± 1	0.459 ± 1	3.610 ± 0	0.202 ± 2	0.373 ± 2	0.372 ± 2
5.761 -2	3.214 ± 0	3.238 ± 0	1.276 ± 1	1.000 ± 1	0.284 ± 1	0.421 ± 1	3.612 ± 2	4.047 ± 2	1.974 ± 2	3.680 ± 2
7.002 -2	3.184 ± 0	3.218 ± 0	1.288 ± 1	1.000 ± 1	0.207 ± 1	0.378 ± 1	3.615 ± 2	1.920 ± 2	1.320 ± 2	3.579 ± 2
8.322 -2	3.111 ± 0	3.155 ± 0	1.318 ± 1	1.000 ± 1	0.239 ± 1	0.330 ± 1	3.617 ± 2	6.145 ± 2	1.860 ± 2	3.465 ± 2
9.881 -2	3.055 ± 0	3.118 ± 0	1.189 ± 1	1.000 ± 1	0.257 ± 1	0.285 ± 1	3.622 ± 2	1.116 ± 2	1.808 ± 2	3.299 ± 2
1.307 -1	3.123 ± 0	3.203 ± 0	1.313 ± 1	0.968 ± 0	0.203 ± 1	0.244 ± 1	3.630 ± 1	0.418 ± 1	0.769 ± 1	0.311 ± 1
1.820 -1	3.217 ± 0	3.341 ± 0	1.275 ± 1	0.876 ± 0	0.195 ± 1	0.205 ± 1	3.637 ± 1	0.576 ± 0	1.732 ± 1	0.352 ± 1
2.075 -1	3.275 ± 0	3.423 ± 0	1.252 ± 1	0.846 ± 0	0.184 ± 1	0.263 ± 1	3.643 ± 1	0.637 ± 0	1.694 ± 1	0.348 ± 1
2.417 -1	3.335 ± 0	3.513 ± 0	1.230 ± 1	0.834 ± 0	0.170 ± 1	0.215 ± 1	3.645 ± 1	0.685 ± 0	1.651 ± 1	0.332 ± 1
2.710 -1	3.393 ± 0	3.591 ± 0	1.212 ± 1	0.814 ± 0	0.161 ± 1	0.276 ± 1	3.654 ± 1	0.724 ± 0	1.616 ± 1	0.318 ± 1
2.940 -1	3.450 ± 0	3.682 ± 0	1.189 ± 1	0.807 ± 0	0.150 ± 1	0.285 ± 1	3.660 ± 1	0.752 ± 0	1.586 ± 1	0.306 ± 1
3.345 -1	3.552 ± 0	3.829 ± 0	1.155 ± 1	0.785 ± 0	0.135 ± 1	0.196 ± 1	3.668 ± 1	0.762 ± 0	1.279 ± 1	0.298 ± 1
3.777 -1	3.653 ± 0	3.991 ± 0	1.120 ± 1	0.741 ± 0	0.101 ± 1	0.1905 ± 1	3.676 ± 1	0.772 ± 1	0.254 ± 1	0.296 ± 1
4.234 -1	3.813 ± 0	4.199 ± 0	1.076 ± 1	0.704 ± 0	0.965 ± 2	1.866 ± 1	3.689 ± 1	0.786 ± 0	0.216 ± 1	0.360 ± 1
5.123 -1	4.066 ± 0	4.587 ± 0	1.009 ± 1	0.639 ± 0	0.938 ± 2	1.815 ± 1	3.709 ± 1	0.808 ± 0	0.057 ± 1	0.346 ± 1
6.325 -1	4.365 ± 0	5.283 ± 0	9.397 ± 0	5.719 ± 0	5.537 ± 2	1.788 ± 1	3.732 ± 1	1.834 ± 1	1.995 ± 1	3.685 ± 1

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ENDL 175 Group Neutron Constants

96-Cm-245

ATOMIC WEIGHT 2.4501 ± 2		DENSITY 9.9194 ± 0 GRAMS/CC		CROSS SECTION (BARNES)										ENERGY DEPOSITION (MEV)	
ENERGY	MF	MP	CM	TOTAL	ELASTIC	ABSORP	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL			
MEV															
7.527-1	4.69+0	5.978+0	8.908+0	5.225+0	4.910+0	1.773+0	3.756+0	1.861+0	1.977+0	3.853+0	3.690+0				
8.83+0	4.865+0	6.809+0	8.429+0	4.741+0	4.232+0	1.757+0	3.782+0	1.880+0	1.967+0	4.037+0	3.864+0				
1.025+0	5.05+0	7.598+0	9.11+0	4.458+0	3.599+0	1.800+0	3.910+0	1.833+0	1.934+0	4.203+0	4.109+0				
1.176+0	5.19+0	7.793+0	8.89+0	4.21+0	3.972+0	1.880+0	3.840+0	1.728+0	2.016+0	4.606+0	4.408+0				
1.338+0	5.338+0	7.977+0	7.684+0	4.061+0	3.304+0	1.993+0	3.872+0	1.607+0	2.049+0	5.019+0	4.804+0				
1.511+0	5.486+0	8.143+0	7.477+0	3.847+0	1.898+0	2.091+0	3.905+0	1.519+0	2.086+0	5.409+0	5.177+0				
1.694+0	5.653+0	8.323+0	7.25+0	3.622+0	1.710+0	2.154+0	3.942+0	1.463+0	2.124+0	5.741+0	5.493+0				
1.887+0	5.847+0	8.555+0	7.014+0	3.407+0	1.511+0	2.199+0	3.980+0	1.08+0	2.157+0	6.022+0	5.760+0				
2.091+0	5.903+0	8.692+0	6.948+0	3.357+0	1.302+0	2.178+0	4.020+0	1+0	2.138+0	6.003+0	5.786+0				
2.305+0	5.920+0	8.863+0	6.928+0	3.409+0	1.082+0	2.129+0	4.061+0	1.9+0	2.105+0	5.946+0	5.681+0				
2.530+0	5.926+0	9.038+0	6.922+0	3.264+0	8.545+0	3.081+0	4.103+0	1.368+0	2.074+0	5.817+0	5.55+0				
2.741+0	5.913+0	9.213+0	6.937+0	3.547+0	6.243+0	3.028+0	4.149+0	1.356+0	2.039+0	5.550+0	5.390+0				
3.011+0	5.868+0	9.358+0	6.990+0	3.639+0	4.953+0	3.198+0	4.199+0	1.360+0	2.000+0	5.502+0	5.244+0				
3.267+0	5.797+0	9.438+0	7.075+0	3.730+0	4.894+0	3.160+0	4.243+0	1.380+0	1.962+0	5.357+0	5.110+0				
3.533+0	5.726+0	9.509+0	7.163+0	3.825+0	4.822+0	3.133+0	4.301+0	1.400+0	1.922+0	5.231+0	4.975+0				
3.811+0	5.659+0	9.536+0	7.248+0	3.917+0	4.751+0	3.106+0	4.352+0	1.420+0	1.885+0	5.101+0	4.946+0				
4.069+0	5.627+0	9.766+0	7.289+0	3.966+0	4.674+0	3.877+0	4.408+0	1.442+0	1.868+0	4.990+0	4.742+0				
4.396+0	5.606+0	9.950+0	7.316+0	4.001+0	4.590+0	3.845+0	4.466+0	1.466+0	1.905+0	4.900+0	4.641+0				
4.704+0	5.587+0	1.013+0	7.342+0	4.033+0	4.511+0	3.815+0	4.525+0	1.489+0	1.923+0	4.810+0	4.548+0				
4.991+0	5.594+0	1.032+0	7.332+0	4.028+0	4.425+0	3.783+0	4.587+0	1.517+0	1.941+0	4.736+0	4.470+0				
5.253+0	5.625+0	1.036+0	7.291+0	3.984+0	4.373+0	3.778+0	4.650+0	1.525+0	1.950+0	4.753+0	4.480+0				
5.650+0	5.684+0	1.048+0	7.216+0	3.939+0	4.246+0	3.195+0	4.707+0	1.514+0	1.974+0	5.253+0	4.483+0				
6.042+0	5.761+0	1.061+0	7.119+0	3.865+0	4.152+0	3.060+0	4.763+0	1.590+0	1.989+0	5.574+0	5.309+0				
6.367+0	5.838+0	1.067+0	7.025+0	3.771+0	4.060+0	3.078+0	4.818+0	1.172+0	2.019+0	5.686+0	5.421+0				
6.737+0	5.930+0	1.075+0	6.916+0	3.633+0	3.955+0	3.095+0	4.881+0	1.154+0	2.039+0	5.814+0	5.549+0				
7.156+0	6.050+0	1.085+0	6.790+0	3.534+0	3.848+0	3.092+0	4.946+0	1.150+0	2.035+0	5.917+0	5.647+0				
7.540+0	6.170+0	1.096+0	6.647+0	3.410+0	3.748+0	3.084+0	5.007+0	1.150+0	2.027+0	6.008+0	5.733+0				
7.910+0	6.294+0	1.106+0	6.517+0	3.288+0	3.646+0	3.075+0	5.072+0	1.150+0	2.018+0	6.101+0	5.819+0				
8.322+0	6.425+0	1.115+0	6.384+0	3.165+0	3.530+0	3.065+0	5.153+0	1.150+0	2.007+0	6.198+0	5.907+0				
8.787+0	6.556+0	1.122+0	6.257+0	3.047+0	3.417+0	3.056+0	5.232+0	1.150+0	1.997+0	6.296+0	5.994+0				
9.177+0	6.677+0	1.129+0	6.143+0	2.943+0	3.300+0	3.046+0	5.314+0	1.150+0	1.986+0	6.382+0	6.071+0				
9.655+0	6.808+0	1.136+0	6.025+0	2.837+0	3.176+0	3.036+0	5.401+0	1.150+0	1.976+0	6.475+0	6.152+0				
1.012+0	6.914+0	1.143+0	5.932+0	2.754+0	3.054+0	3.025+0	5.487+0	1.150+0	1.979+0	6.544+0	6.211+0				
1.058+0	7.010+0	1.148+0	5.851+0	2.682+0	2.930+0	3.016+0	5.570+0	1.150+0	1.988+0	6.603+0	6.261+0				
1.101+0	7.089+0	1.154+0	5.785+0	2.626+0	2.808+0	3.005+0	5.659+0	1.150+0	1.997+0	6.645+0	6.294+0				
1.155+0	7.144+0	1.160+0	5.741+0	2.588+0	2.679+0	3.054+0	5.749+0	1.056+0	2.007+0	6.652+0	6.489+0				
1.199+0	7.174+0	1.163+0	5.717+0	2.563+0	2.553+0	3.149+0	5.835+0	1.003+0	2.016+0	7.186+0	6.812+0				
1.250+0	7.193+0	1.165+0	5.702+0	2.547+0	2.410+0	3.194+0	5.931+0	9.987+0	2.016+0	7.328+0	6.965+0				
1.307+0	7.224+0	1.177+0	5.678+0	2.549+0	2.272+0	3.184+0	6.025+0	9.424+0	2.036+0	7.307+0	6.955+0				
1.354+0	7.232+0	1.185+0	5.672+0	2.561+0	2.167+0	3.176+0	6.056+0	9.324+0	2.044+0	7.285+0	6.931+0				
1.386+0	7.270+0	1.190+0	5.668+0	2.571+0	2.089+0	3.170+0	6.150+0	9.250+0	2.049+0	7.268+0	6.913+0				
1.413+0	7.282+0	1.196+0	5.671+0	2.586+0	2.017+0	3.165+0	6.197+0	9.182+0	2.046+0	7.244+0	6.888+0				
1.441+0	7.277+0	1.202+0	5.675+0	2.603+0	1.944+0	3.155+0	6.245+0	9.114+0	2.042+0	7.218+0	6.862+0				
1.468+0	7.218+0	1.209+0	5.682+0	2.627+0	1.841+0	3.151+0	6.313+0	9.025+0	2.037+0	7.179+0	6.822+0				
1.519+0	7.191+0	1.219+0	5.704+0	2.668+0	1.699+0	3.134+0	6.407+0	9.000+0	2.037+0	7.095+0	6.736+0				
1.575+0	7.158+0	1.229+0	5.730+0	2.714+0	1.547+0	3.115+0	6.508+0	9.000+0	2.039+0	6.997+0	6.637+0				
1.633+0	7.112+0	1.237+0	5.767+0	2.760+0	1.392+0	3.116+0	6.610+0	8.894+0	2.041+0	6.950+0	6.569+0				
1.692+0	7.034+0	1.253+0	5.831+0	2.808+0	1.235+0	3.172+0	6.714+0	8.494+0	2.043+0	7.046+0	6.684+0				
1.752+0	6.979+0	1.257+0	5.877+0	2.856+0	1.075+0	3.193+0	6.820+0	8.261+0	2.042+0	7.051+0	6.686+0				
1.813+0	6.950+0	1.245+0	5.902+0	2.901+0	9.117+0	4.181+0	6.928+0	8.187+0	2.039+0	6.976+0	6.612+0				
1.875+0	6.918+0	1.257+0	5.929+0	2.958+0	6.648+0	2.162+0	7.091+0	8.075+0	2.031+0	6.874+0	6.513+0				
2.000+0															
RESONANCE INTEGRALS				1.187+0	3.134+0	2.121+0	8.729+0	2.785+0	7.260+0	3.166+0					
MAXWELLIAN AVERAGES				2.299+0	3.200+0	3.416+0	2.193+0	3.600+0	1.666+0						
1/E AVERAGES				6.782+0	1.053+0	6.973+0	4.987+0	1.360+0	4.499+0	4.148+0	2.021+0				
FISSION AVERAGES				8.238+0	4.672+0	4.222+0	1.980+0	4.000+0	1.544+0	2.021+0					
FUSION AVERAGES				5.672+0	2.578+0	2.071+0	3.169+0	6.160+0	9.234+0	2.045+0	1.021+0				

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ENDL 175 Group Neutron Constants

96-Cm-246

Barns

04/12/76

ENDL 175 Group Neutron Constants

96-Cm-246

ATOMIC WEIGHT 2.6074		DENSITY 9.96234 GRAMS/CC.									
TOTAL (CM.)		(CROSS SECTION (BARN))						ENERGY DEPOSIT (MEV)			
MEAL	NUCL. MASS FRACTION	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
101	0.2669	0.674	0.537	1.13	3.527	0.4996	1.130	0	2.914	7.404	6.056
102	0.30	0.739	0.535	1.13	1.762	0.498	1.130	0	1.456	4.305	3.484
103	0.4234	0.5242	0.268	1.13	1.175	0.1665	1.130	0	9.706	3.021	0.445
104	0.2980	0.306	0.244	1.13	9.611	1.362	1.130	0	7.911	0.520	0.404
105	0.532	0.176	0.220	1.13	7.562	1.072	1.130	0	6.248	0.022	0.1636
106	0.439	0.159	0.206	1.13	150	1.660	1.130	0	4.650	0.000	0.300
107	0.109	0.19	0.06	1.13	4.814	6.815	2.130	0	3.977	0.120	0.967
108	0.471	0.029	0.301	1.33	4.075	5.765	2.130	0	3.366	0.614	1.778
109	0.245	0.09	0.49	1.45	3.509	4.997	2.130	0	3.150	0.768	0.228
110	0.227	0.029	0.626	1.591	3.114	4.009	2.130	0	2.573	0.620	0.5049
111	0.113	0.125	0.48	1.36	2.901	4.129	2.130	0	2.325	0.539	1.347
112	0.029	0.029	0.158	1.45	3.172	2.959	2.130	0	2.298	0.000	0.300
113	0.970	0.075	0.282	0.056	2.174	4.230	2.130	0	1.876	0.474	3.783
114	0.955	0.00	0.294	0.060	3.32	4.309	2.130	0	2.717	0.797	3.625
115	0.960	0.00	0.243	0.02	6.32	4.405	2.130	0	3.673	0.520	1.392
116	0.961	0.00	0.291	0.017	6.954	4.535	2.130	0	5.368	0.916	4.038
117	0.992	0.00	0.168	1.988	1.745	4.896	2.130	0	1.300	1.84	1.02
118	0.957	0.00	0.192	2.49	3.174	5.988	2.130	0	2.298	0.955	1.068
119	0.957	0.00	0.165	2.92	5.126	5.546	2.130	0	3.759	1.321	0.659
120	0.816	0.84	0.23	2.179	4.997	4.677	2.130	0	3.958	0.510	1.399
121	0.894	0.899	0.166	2.144	1.711	4.507	2.130	0	1.569	0.430	1.362
122	0.922	0.927	0.13	2.120	9.678	4.532	2.130	0	1.024	0.438	1.954
123	0.943	0.946	0.11	2.098	8.678	4.61	2.130	0	9.464	1.306	1.936
124	0.963	0.967	0.08	2.075	7.069	4.71	2.130	0	8.25	1.306	1.936
125	0.94	0.939	0.12	2.032	9.511	4.274	2.130	0	7.204	0.187	1.734
126	0.159	0.160	0.052	2.505	1.611	7.50	1.130	0	1.197	3.249	0.597
127	0.803	0.816	0.659	2.45	2.152	1.203	1.130	0	1.570	2.884	4.808
128	0.66	0.665	0.70	1.59	2.705	5.13	2.130	0	2.001	9.897	4.082
129	0.889	0.89	0.17	2.151	1.620	4.571	2.130	0	1.500	0.463	1.921
130	0.92	0.92	0.12	2.14	3.174	5.914	2.130	0	2.298	0.955	1.068
131	0.910	0.916	0.07	2.139	3.400	4.585	2.130	0	5.723	1.420	1.978
132	0.915	0.920	0.12	2.13	3.418	4.591	2.130	0	5.740	1.234	1.591
133	0.919	0.92	0.136	2.13	3.36	4.597	2.130	0	5.757	1.249	1.4005
134	0.923	0.929	0.133	2.125	3.456	4.602	2.130	0	5.775	1.266	1.4019
135	0.926	0.932	0.129	2.121	3.470	4.607	2.130	0	5.799	1.276	1.4030
136	0.929	0.934	0.125	2.117	3.483	4.612	2.130	0	5.803	1.286	1.404
137	0.935	0.941	0.119	2.111	3.511	4.619	2.130	0	5.827	1.309	1.4060
138	0.943	0.948	0.111	2.103	3.543	4.629	2.130	0	5.857	1.334	1.4084
139	0.951	0.956	0.103	2.094	3.576	4.639	2.130	0	5.888	1.362	1.409
140	0.957	0.963	0.095	2.087	3.605	4.647	2.130	0	5.915	1.386	1.4131
141	0.963	0.968	0.089	2.081	3.628	4.654	2.130	0	5.937	1.405	1.4149
142	0.969	0.973	0.085	2.075	3.647	4.659	2.130	0	5.956	1.424	1.4167
143	0.973	0.978	0.079	2.071	3.670	4.667	2.130	0	5.977	1.441	1.4181
144	0.979	0.98	0.073	2.064	3.695	4.675	2.130	0	6.000	1.462	1.4201
145	0.983	0.989	0.068	2.059	3.714	4.680	2.130	0	6.018	1.478	1.4215
146	0.990	0.995	0.061	2.053	3.740	4.688	2.130	0	6.043	1.500	1.4236
147	0.996	0.2002	0.055	2.046	3.766	4.696	2.130	0	6.067	1.523	1.4257
148	0.2004	0.201	0.049	2.040	3.792	4.704	2.130	0	6.091	1.546	1.4278
149	0.011	0.017	0.039	2.031	3.828	4.715	2.130	0	6.125	1.576	1.4306
150	0.019	0.024	0.032	2.024	3.856	4.723	2.130	0	6.151	1.601	1.4328
151	0.027	0.033	0.023	2.015	3.892	4.73	2.130	0	6.185	1.632	1.4358
152	0.035	0.040	0.016	2.007	3.921	4.743	2.130	0	6.213	1.659	1.4382
153	0.040	0.046	0.010	2.002	3.943	4.750	2.130	0	6.233	1.679	1.4400
154	0.044	0.050	0.009	2.000	3.965	4.758	2.130	0	6.253	1.699	1.4417
155	0.071	0.077	0.000	1.969	6.168	4.768	2.130	0	7.861	1.626	1.448
156	0.122	0.129	0.133	1.919	8.965	4.778	2.130	0	9.697	1.528	1.4603
157	0.185	0.191	1.878	1.856	1.683	4.790	2.130	0	1.561	0.405	1.751
158	0.219	0.225	1.848	1.812	1.311	4.797	2.130	0	2.598	0.898	1.834
159	0.163	0.169	1.896	1.711	1.198	5.255	2.130	0	1.342	1.026	0.162
160	0.081	0.086	1.924	1.617	1.048	6.748	2.130	0	0.824	1.22	0.22
161	0.027	0.029	1.875	1.420	1.442	2.98	0.130	0	1.053	3.462	0.899
162	0.138	0.143	1.116	1.039	2.683	9.345	2.130	0	2.013	1.510	0.825

04/12/76

ENDL 175 Group Neutron Constants

96-Cm-246

ATOMIC WEIGHT 2.4607 ± 2		DENSITY 9.9623 ± 0 GRAMS/CC									
ENERGY	MFP (CM)	CROSS SECTION (BARN)									
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB	FISSION	MU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-7	8.935-7	9.946-7	4.590-2	1.072-2	2.626-2	9.219-0	3.130-0	1.971-3	6.083-0	3.741-0	0
9.386-5	9.476-1	9.497-1	4.328-1	3.425-1	8.716-0	3.170-1	3.130-0	6.550-1	2.458-0	1.354-0	0
9.668-5	1.604-0	1.609-0	2.556-1	2.517-1	3.351-1	5.731-2	3.130-0	2.839-0	5.020-1	4.175-1	0
9.811-5	1.691-0	1.696-0	2.425-1	2.407-1	1.192-1	5.667-2	3.130-0	1.267-0	4.781-1	4.352-1	0
1.025-4	1.769-0	1.774-0	2.312-1	2.308-1	4.547-2	5.537-2	3.130-0	7.231-1	4.729-1	4.449-1	0
1.059-4	1.809-0	1.814-0	2.267-1	2.258-1	3.307-2	5.370-2	3.130-0	6.135-1	4.665-1	4.412-1	0
1.176-4	1.851-0	1.856-0	2.216-1	2.207-1	3.370-2	5.197-2	3.130-0	6.135-1	4.693-1	4.369-1	0
1.256-4	1.896-0	1.902-0	2.163-1	2.154-1	3.434-2	5.019-2	3.130-0	6.055-1	4.578-1	4.322-1	0
1.338-4	1.940-0	1.946-0	2.114-1	2.105-1	3.494-2	4.853-2	3.130-0	5.981-1	4.534-1	4.276-1	0
1.406-4	1.993-0	1.999-0	2.058-1	2.048-1	3.517-2	4.663-2	3.130-0	7.169-1	4.524-1	4.260-1	0
1.511-4	2.054-0	2.057-1	1.606-2	8.597-3	7.386-1	1.130-0	3.130-0	5.415-2	3.316-0	9.061-1	0
1.601-4	9.172-1	9.193-1	4.472-1	3.586-1	8.713-0	1.241-1	3.130-0	6.410-1	1.543-0	5.170-1	0
1.694-4	1.791-1	1.796-1	2.290-1	2.281-1	4.136-2	4.227-2	3.130-0	6.003-1	3.670-1	3.473-1	0
1.789-4	1.826-1	1.831-1	2.245-1	2.239-1	3.053-2	4.256-2	3.130-0	5.237-1	3.741-1	3.524-1	0
1.887-4	1.852-1	1.857-1	2.214-1	2.207-1	3.123-2	4.295-2	3.130-0	5.308-1	3.822-1	3.604-1	0
1.980-4	1.880-1	1.885-1	2.182-1	2.174-1	3.157-2	4.314-2	3.130-0	5.572-1	3.913-1	3.683-1	0
2.091-4	1.918-1	1.921-1	2.142-1	2.132-1	4.960-0	1.369-1	3.130-0	3.696-1	1.929-0	9.434-1	0
2.741-4	7.726-1	7.740-1	1.570-1	3.748-1	1.536-1	2.492-1	3.130-0	1.132-2	2.402-0	8.741-1	0
3.267-4	1.263-1	1.267-1	3.038-1	2.717-1	2.753-1	1.592-1	3.130-0	2.109-1	1.488-0	9.767-1	0
3.811-4	1.031-1	1.034-1	3.970-1	3.643-1	3.207-1	1.466-1	3.130-0	2.432-1	1.130-0	6.861-1	0
4.704-4	1.236-1	1.239-1	3.419-1	2.983-1	3.217-1	6.114-2	3.130-0	2.440-1	7.049-1	2.589-1	0
4.991-4	1.254-1	1.257-1	3.270-1	2.956-1	3.057-1	6.412-2	3.130-0	2.282-1	7.624-1	2.628-1	0
5.658-4	1.289-1	1.293-1	3.181-1	2.888-1	2.878-1	6.615-2	3.130-0	2.121-1	7.480-1	2.702-1	0
6.402-4	1.321-1	1.324-1	2.887-1	2.657-1	2.752-1	6.615-2	3.130-0	2.030-1	8.017-1	2.977-1	0
6.367-4	1.739-1	1.744-1	2.358-1	2.053-1	2.603-1	4.616-2	3.130-0	1.922-1	9.489-1	3.646-1	0
7.156-4	2.636-1	2.641-1	1.558-1	1.206-1	2.518-1	4.617-2	3.130-0	1.865-1	1.411-0	5.521-1	0
8.322-4	2.985-1	2.972-1	1.383-1	1.134-1	2.446-1	4.618-2	3.130-0	1.808-1	1.559-0	6.219-1	0
9.177-4	2.983-1	2.989-1	1.375-1	1.134-1	2.365-1	4.620-2	3.130-0	1.789-1	1.538-0	6.257-1	0
1.058-3	3.013-1	3.020-1	1.361-1	1.134-1	2.226-1	4.622-2	3.130-0	1.619-1	1.502-0	6.324-1	0
1.307-3	3.053-1	3.060-1	1.343-1	1.134-1	2.048-1	4.625-2	3.130-0	1.519-1	1.454-0	6.412-1	0
1.581-3	3.067-1	3.074-1	1.337-1	1.134-1	1.987-1	4.628-2	3.130-0	1.475-1	1.437-0	6.446-1	0
1.882-3	3.071-1	3.078-1	1.336-1	1.134-1	1.969-1	4.632-2	3.130-0	1.462-1	1.433-0	6.460-1	0
2.206-3	3.076-1	3.083-1	1.334-1	1.134-1	1.949-1	4.636-2	3.130-0	1.448-1	1.428-0	6.474-1	0
2.561-3	3.080-1	3.088-1	1.331-1	1.134-1	1.929-1	4.640-2	3.130-0	1.433-1	1.423-0	6.491-1	0
2.940-3	3.086-1	3.093-1	1.329-1	1.134-1	1.906-1	4.645-2	3.130-0	1.417-1	1.417-0	6.508-1	0
3.345-3	3.091-1	3.098-1	1.327-1	1.134-1	1.882-1	4.650-2	3.130-0	1.400-1	1.411-0	6.526-1	0
3.777-3	3.097-1	3.104-1	1.324-1	1.134-1	1.857-1	4.655-2	3.130-0	1.381-1	1.405-0	6.546-1	0
4.234-3	3.115-1	3.122-1	1.317-1	1.134-1	1.781-1	4.666-2	3.130-0	1.326-1	1.395-0	6.600-1	0
5.763-3	3.174-1	3.181-1	1.292-1	1.134-1	1.537-1	4.689-2	3.130-0	1.150-1	1.317-0	6.752-1	0
7.527-3	3.264-1	3.272-1	1.257-1	1.134-1	1.178-1	4.711-2	3.130-0	8.908-0	1.212-0	6.983-1	0
1.025-2	3.349-1	3.358-1	1.225-1	1.134-1	8.609-1	4.755-2	3.130-0	6.600-0	1.116-0	7.231-1	0
1.511-2	3.397-1	3.420-1	1.207-1	1.134-1	6.859-1	4.817-2	3.130-0	5.337-0	1.087-0	7.431-1	0
2.091-2	3.425-1	3.466-1	1.197-1	1.134-1	5.951-1	4.883-2	3.130-0	4.613-0	1.043-0	7.596-1	0
2.846-2	3.446-1	3.503-1	1.180-1	1.134-1	5.125-1	4.951-2	3.130-0	4.092-0	1.030-0	7.749-1	0
3.267-2	3.466-1	3.541-1	1.183-1	1.134-1	4.446-1	5.027-2	3.130-0	3.606-0	1.018-0	7.912-1	0
3.953-2	3.497-1	3.583-1	1.176-1	1.134-1	3.698-1	5.110-2	3.130-0	2.034-3	1.005-0	8.093-1	0
4.704-2	3.525-1	3.645-1	1.163-1	1.127-1	2.933-1	5.215-2	3.130-0	2.521-0	1.000-0	8.351-1	0
5.761-2	3.617-1	3.783-1	1.134-1	1.100-1	2.528-1	5.348-2	3.130-0	3.891-2	2.238-0	8.786-1	0
7.002-2	3.719-1	3.949-1	1.103-1	1.069-1	2.356-1	5.496-2	3.130-0	6.284-2	2.126-0	9.285-1	0
8.322-2	3.837-1	4.139-1	1.069-1	1.032-1	2.260-1	5.664-2	3.130-0	8.984-2	2.072-0	9.873-1	0
9.891-2	4.047-1	4.449-1	1.013-1	9.724-2	2.156-1	5.939-2	3.130-0	1.342-1	2.022-0	1.092-0	0
1.307-1	4.460-1	5.093-1	9.196-0	8.689-0	2.031-1	6.420-2	3.161-1	2.397-1	1.976-1	1.301-0	0
1.820-1	4.869-1	5.799-1	9.423-0	7.754-0	1.915-1	6.865-2	3.168-1	4.086-1	1.932-1	1.518-0	0
2.075-1	4.943-1	5.857-1	8.297-0	7.496-0	1.814-1	7.211-2	3.174-1	5.460-1	1.888-1	1.614-0	0
2.417-1	4.940-1	6.078-1	8.303-0	7.361-0	1.703-1	7.579-2	3.180-1	6.962-1	1.838-1	1.701-0	0
2.710-1	4.937-1	6.157-1	8.308-0	7.249-0	1.611-1	7.882-2	3.185-1	8.183-1	1.795-1	1.768-0	0
2.740-1	4.905-1	6.156-1	8.362-0	7.114-0	1.500-1	8.251-2	3.192-1	1.016-0	3.728-0	1.838-0	0
3.345-1	4.821-1	6.117-1	8.508-0	6.937-0	1.354-1	8.735-2	3.200-1	1.349-0	4.723-0	1.913-0	0
3.777-1	4.754-1	6.100-1	8.628-0	6.743-0	1.207-1	9.250-2	3.209-1	1.665-0	5.474-0	1.997-0	0
4.234-1	4.819-1	6.252-1	8.510-0	6.479-0	1.064-1	1.235-1	3.223-1	1.802-1	6.618-0	2.703-0	0
5.123-1	4.927-1	6.478-1	8.325-0	6.052-0	8.009-0	2.239-1	3.244-1	1.953-0	8.809-0	5.476-0	0
6.325-1	5.017-1	6.709-1	8.176-0	5.603-0	5.079-0	4.988-0	3.267-1	2.023-0	1.155-1	1.135-1	0

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ENDL 175 Group Neutron Constants

96-C-246

ATOMIC WEIGHT 24607.2				DENSITY 9.962310 GRAMS/CC										
ENERGY MEV	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARN)								ENERGY DEPOSITION		
		TOTAL	ELASTIC	ABSORPTN	FISSION	NU BRAN	HEAT/EXP	GAM-PROD	TOTAL	LOCAL				
0.0001	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
0.001	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
0.01	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
0.1	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
10000000000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100000000000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000000000000000000000000000000000000000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
100	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.9800	0.1500	0.0000	0.0000	0.0000	0.0000	2.3500	2.2900
1000	0.4800	0.0001	0.0001	0.0000	0.1500	0.0000	9.980							

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

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[illegible]

ATOMIC WEIGHT 247.071 ± 2				DENSITY 2000 ± 1 GRAMS/CC							
ENERGY MEV	MFP (CM)	CROSS SECTION (BARNs)									
		TOTAL	ELASTIC	ABSORPTN	FISSION	NU BAR	REMAINDER	GAP-PROD	ENERGY DEPOSIT (MEV)		
		TOTAL	TRANSPORT						TOTAL	LOCAL	
7.527	1.4700	6.207	0	8.726	5.136	5.097	1.582	3.629	1.498	2.031	
8.834	1.923	6.894	0	8.332	4.752	4.692	1.996	3.656	1.538	2.057	
1.025	5.146	7.746	0	7.970	4.374	4.356	2.020	3.684	1.540	2.079	
1.26	5.357	7.962	0	7.656	4.051	4.022	2.051	3.715	1.524	2.106	
1.338	5.540	8.149	0	7.404	3.788	3.750	2.085	3.747	1.506	2.122	
1.511	5.654	8.294	0	7.242	3.623	3.584	2.120	3.782	1.490	2.142	
1.694	5.787	8.440	0	7.087	3.471	3.431	2.158	3.818	1.472	2.159	
1.887	5.844	8.543	0	7.018	3.338	3.298	2.194	3.857	1.452	2.172	
2.091	5.880	8.685	0	6.976	3.233	3.193	2.200	3.898	1.430	2.185	
2.310	5.895	8.855	0	6.953	3.147	3.107	2.200	3.930	1.416	2.195	
2.5	5.916	9.053	0	6.933	3.066	3.033	2.186	3.983	1.403	2.202	
2.741	5.956	9.260	0	6.945	3.053	3.020	2.162	4.029	1.390	2.207	
3.011	5.870	9.467	0	6.905	3.045	3.032	2.136	4.091	1.380	2.205	
3.267	5.821	9.600	0	7.046	3.133	3.086	2.110	4.131	1.370	2.207	
3.533	5.754	9.715	0	7.128	3.224	3.168	2.083	4.184	1.360	2.209	
3.811	5.681	9.800	0	7.219	3.313	3.251	2.056	4.236	1.350	2.211	
4.069	5.614	9.914	0	7.306	3.398	3.331	2.027	4.293	1.340	2.212	
4.356	5.580	1.003	1	7.35	3.441	3.374	1.995	4.355	1.330	2.214	
4.704	5.557	1.015	1	7.380	3.468	3.401	1.965	4.413	1.320	2.217	
4.991	5.569	1.029	1	7.405	3.485	3.418	1.933	4.476	1.310	2.221	
5.352	5.614	1.044	1	7.507	3.626	3.559	1.904	4.542	1.300	2.224	
5.656	5.670	1.059	1	7.634	3.860	3.793	1.871	4.614	1.290	2.227	
6.042	5.721	1.064	1	7.156	3.694	3.627	1.837	4.590	1.280	2.229	
6.267	5.808	1.073	1	7.042	3.789	3.722	1.803	4.763	1.270	2.228	
6.137	5.908	1.076	1	6.942	3.672	3.605	1.771	4.746	1.260	2.227	
7.156	6.047	1.034	1	6.783	3.554	3.487	1.739	4.532	1.250	2.193	
7.548	6.170	1.07	1	6.647	3.441	3.374	1.706	4.360	1.240	2.152	
8.910	6.261	1.112	1	6.530	3.325	3.258	1.673	4.094	1.230	2.133	
6.332	6.417	1.119	1	6.392	3.194	3.127	1.640	4.186	1.220	2.114	
6.767	6.555	1.126	1	6.257	3.065	3.000	1.607	4.277	1.210	2.095	
9.177	6.682	1.133	1	6.138	2.954	2.887	1.575	4.370	1.200	2.076	
9.675	6.789	1.139	1	6.032	2.856	2.789	1.543	4.470	1.190	2.058	
1.012	6.914	1.145	1	5.932	2.76	2.693	1.511	4.573	1.180	2.039	
1.058	6.986	1.149	1	5.865	2.67	2.600	1.479	4.681	1.170	2.020	
1.101	7.078	1.154	1	5.795	2.58	2.511	1.447	4.783	1.160	2.001	
1.155	7.138	1.156	1	5.746	2.532	2.463	1.415	4.886	1.150	2.005	
1.199	7.153	1.155	1	5.734	2.568	2.497	1.425	4.951	1.140	2.006	
1.250	7.180	1.164	1	5.712	2.562	2.503	1.478	5.069	1.130	2.002	
1.307	7.166	1.166	1	5.723	2.573	2.504	1.474	5.000	1.120	2.000	
1.359	7.159	1.169	1	5.733	2.583	2.513	1.474	5.000	1.120	2.000	
1.386	7.146	1.171	1	5.740	2.590	2.521	1.488	5.114	1.110	2.000	
1.413	7.144	1.176	1	5.730	2.597	2.565	1.485	5.369	1.100	2.000	
1.441	7.171	1.181	1	5.742	2.611	2.727	1.469	6.424	1.090	2.000	
1.468	7.123	1.186	1	5.758	2.600	2.733	1.477	6.503	1.080	2.166	
1.519	7.097	1.196	1	5.779	2.680	2.765	1.416	6.610	1.072	2.141	
1.575	7.069	1.208	1	5.802	2.723	2.797	1.383	6.726	1.064	2.121	
1.633	7.043	1.219	1	5.824	2.766	2.886	1.350	6.844	1.056	2.083	
1.692	7.008	1.226	1	5.853	2.827	2.989	1.315	6.964	1.048	2.054	
1.752	6.957	1.228	1	5.886	2.899	3.066	1.286	7.071	1.040	2.063	
1.813	6.905	1.228	1	5.940	2.892	3.178	1.250	7.158	1.032	2.105	
1.875	6.823	1.228	1	6.006	2.957	3.311	1.200	7.244	1.024	2.172	
2.000											
RESONANCE INTEGRALS				1.467	3.169	2.354	2.890	2.128	0.935	3	
MAXWELLIAN AVERAGES				1.658	2.162	1.801	2.296	1.470	1.180	3	
1/E AVERAGES				8.378	1.239	1.204	1.096	1.480	1.276	2	
FISSION AVERAGES				7.934	4.565	4.262	2.065	1.262	0.277	1	
FUSION AVERAGES				5.738	2.534	2.968	2.483	6.327	1.198	1	

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ENDL 175 Group Neutron Constants

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Barns

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ENDL 175 Group Neutron Constants

96-Cm-248

ATOMIC WEIGHT 248.001-2		DENSITY 1.0041-1 GRAMS/CC									
ENERGY	MEP (CM)	CROSS SECTION (BARNES)						ENERGY DEPOSITION (MEV)			
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORB	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
0.001	0.860	0.691	2.172	1.134	9.379	0.999	1.160	0	6.517	1.095	8.571
0.002	0.512	0.251	1.633	1.134	4.466	0.997	1.160	0	3.132	1.223	5.699
0.003	0.360	0.206	1.455	1.134	2.974	0.330	1.160	0	2.078	1.360	4.233
0.004	0.320	0.206	1.405	1.134	2.434	0.283	1.160	0	1.700	1.571	3.610
0.005	0.304	0.205	1.347	1.134	1.920	0	1.160	0	1.341	1.751	2.960
0.006	0.318	0.206	1.307	1.140	1.501	0.166	1.160	0	1.048	1.910	2.374
0.007	0.334	0.206	1.309	1.171	1.237	0.361	1.160	0	8.622	2.460	1.937
0.008	0.369	0.206	1.308	1.211	1.056	0.152	1.160	0	1.355	2.054	1.615
0.010	0.401	0.205	1.359	1.257	9.251	1.979	2.160	0	6.346	1.742	1.367
0.015	0.928	0.245	1.014	1.309	8.267	1.804	2.160	0	5.743	1.495	1.170
0.020	2.830	0.338	1.449	1.363	7.594	1.718	2.160	0	5.264	1.305	1.017
0.025	2.641	0.248	1.553	1.445	1.012	0.603	2.160	0	6.749	0.159	8.190
0.030	2.736	0.213	1.516	1.422	6.852	5.540	2.160	0	4.632	0.299	6.805
0.035	2.776	0.213	1.478	1.423	4.964	4.683	2.160	0	3.405	0.720	5.900
0.040	2.820	0.268	1.454	1.421	4.724	4.049	2.160	0	3.212	0.923	5.184
0.045	2.875	0.288	1.427	1.376	4.774	3.493	2.160	0	3.204	0.637	4.558
0.050	2.934	0.294	1.390	1.344	5.124	3.063	2.160	0	3.389	0.971	4.080
0.055	3.021	0.325	1.358	1.285	6.877	2.731	2.160	0	4.451	0.623	3.746
0.060	3.154	0.321	1.284	1.151	1.286	4.418	2.160	0	8.274	1.138	6.406
0.065	3.457	0.453	2.616	1.318	8.678	3.044	1.160	0	1.589	1.345	2.012
0.070	3.597	0.644	2.377	1.297	5.257	2.202	1.160	0	4.030	3.763	5.560
0.075	4.456	1.434	2.857	2.608	2.399	0.335	2.160	0	1.545	1.907	5.432
0.080	2.353	0.374	1.714	1.659	5.220	2.456	2.160	0	3.406	4.209	2.668
0.085	2.764	0.712	1.474	1.463	3.029	2.970	2.160	0	2.086	4.744	3.656
0.090	2.928	0.936	1.401	1.372	2.488	3.555	2.160	0	1.793	5.752	4.725
0.095	3.093	1.101	1.326	1.297	2.537	3.986	2.160	0	1.854	6.764	5.597
0.100	3.283	1.231	1.249	1.217	2.608	4.442	2.160	0	2.054	7.963	6.621
0.105	3.495	1.505	1.173	1.134	3.430	4.915	2.160	0	2.473	9.491	7.800
0.110	3.730	1.746	1.226	1.178	4.518	5.412	2.160	0	3.181	1.027	8.204
0.115	4.049	1.949	1.254	1.240	2.958	6.033	2.160	0	5.165	5.029	3.635
0.120	4.424	2.141	1.116	1.113	4.944	6.571	2.160	0	1.045	3.976	2.993
0.125	4.762	2.317	1.130	1.618	1.603	0.155	1.160	0	3.845	1.898	4.453
0.130	5.044	2.406	2.007	3.827	2.193	3.058	1.160	0	7.605	5.753	2.837
0.135	5.298	2.493	2.128	2.448	2.624	1.598	1.160	0	4.221	3.012	1.486
0.140	5.481	2.492	1.154	1.770	3.739	9.634	2.160	0	2.293	3.962	1.959
0.145	5.610	2.423	1.353	1.619	1.788	4.732	2.160	0	1.147	2.111	1.055
0.150	5.767	2.281	1.746	1.468	1.703	4.615	2.160	0	1.087	2.219	1.124
0.155	5.944	2.100	2.345	2.270	2.159	1.160	1.160	0	2.726	3.632	3.207
0.160	6.134	2.434	1.680	1.624	1.999	5.804	1.160	0	1.279	2.380	1.450
0.165	6.336	2.677	1.907	1.703	1.151	1.160	1.160	0	3.729	6.182	5.406
0.170	6.549	2.927	2.690	2.611	1.119	1.160	1.160	0	2.411	9.400	7.641
0.175	6.783	3.181	1.971	1.944	1.095	1.160	1.160	0	1.981	1.105	1.018
0.180	7.038	3.441	1.865	1.860	1.520	1.061	1.160	0	1.694	1.128	1.074
0.185	7.304	3.704	1.785	1.762	1.239	1.027	1.160	0	1.496	1.147	1.071
0.190	7.580	3.970	1.739	1.687	1.148	1.001	1.160	0	1.421	1.166	1.091
0.195	7.866	4.246	1.636	1.589	1.078	1.055	1.160	0	1.353	1.186	1.120
0.200	8.163	4.531	1.581	1.481	1.027	9.944	2.160	0	1.286	1.234	1.153
0.205	8.470	4.829	1.547	1.527	1.066	1.400	2.160	0	1.299	1.139	1.063
0.210	8.787	5.134	2.027	1.148	0.444	0.444	2.160	0	1.311	0.267	1.790
0.215	9.114	5.449	2.632	1.325	1.067	2.160	1.160	0	1.393	0.612	1.561
0.220	9.451	5.774	3.399	1.702	1.757	2.160	1.160	0	1.592	0.520	1.420
0.225	9.798	6.103	4.019	2.192	1.775	2.160	1.160	0	1.866	0.688	1.300
0.230	10.155	6.434	4.693	2.842	1.870	2.160	1.160	0	2.070	1.185	1.204
0.235	10.524	6.765	5.050	3.871	6.454	2.160	1.160	0	3.474	2.899	2.354
0.240	10.904	7.096	5.482	9.854	6.034	2.160	1.160	0	6.529	2.923	2.011
0.245	11.294	7.427	5.952	3.097	1.350	1.160	1.160	0	6.257	1.250	0.662
0.250	11.694	7.758	6.470	3.458	1.343	1.160	1.160	0	7.231	2.104	1.185
0.255	12.104	8.089	6.994	3.871	1.655	1.160	1.160	0	3.387	1.857	2.636
0.260	12.524	8.419	7.431	4.311	5.371	2.160	1.160	0	9.247	1.897	1.105
0.265	12.954	8.749	7.865	4.832	5.384	2.160	1.160	0	1.056	1.265	1.186
0.270	13.394	9.079	8.344	5.395	6.306	2.160	1.160	0	2.890	1.577	1.399
0.275	13.844	9.409	8.824	5.944	7.243	2.160	1.160	0	3.290	1.920	1.605

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04/12/76

ENDL 175 Group Neutron Constants

96-Cm-248

ATOMIC WEIGHT 2.4801 ± 2		DENSITY 1.001 ± 1		GRAMS/CC						
ENERGY	MFP (CM)	CROSS SECTION (BARNES)						ENERGY DEPOSIT (MEV)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	5.324-1	5.338-1	7.704+1	7.619+1	7.679-1	8.007-2	3.160+0	5.323+0	2.482-1	1.935-1
9.386-5	5.817-1	5.832-1	7.051+1	6.787+1	2.535+0	1.009-1	3.160+0	1.641+1	4.464-1	2.664-1
9.668-5	5.509-1	5.517-1	1.169+2	1.006+2	1.577-1	4.974-1	3.160+0	1.012-2	1.460+0	7.922-1
9.811-5	2.749-2	2.755-2	1.492+3	1.280+3	2.057+2	6.486+0	3.160+0	1.319+3	1.491+1	8.093-1
1.025+4	5.630-1	5.646-1	7.265+1	7.188+1	7.353-1	2.294-1	3.160+0	6.181+0	6.575-1	5.864-1
1.099+4	9.266-1	9.281-1	4.431+1	4.358+1	1.374-1	5.830-1	3.160+0	5.061+0	2.606+0	2.911+0
1.176+4	1.168+0	1.171+0	3.513+1	3.410+1	5.975-2	9.695-1	3.160+0	7.254+0	5.354+0	5.139+0
1.256+4	1.286+0	1.290+0	3.188+1	3.049+1	3.519-2	1.359+0	3.160+0	9.864+0	8.508+0	7.933+0
1.338+4	9.849-1	9.867-1	4.154+1	2.780+1	1.209-1	1.750+0	3.160+0	8.730+1	9.508+0	7.825+0
1.406+4	1.336+0	1.339+0	3.071+1	2.599+1	4.490+0	2.211-1	3.160+0	2.937+1	2.083+0	1.311+0
1.511+4	1.719+0	1.724+0	2.366+1	2.378+1	1.262-2	7.125-2	3.160+0	5.840+1	5.006+1	5.559+1
1.601+4	1.790+0	1.795+0	2.291+1	2.284+1	1.021-2	5.448-2	3.160+0	4.500+1	4.627+1	4.428+1
1.694+4	1.870+0	1.875+0	2.193+1	2.188+1	1.087-2	3.724-2	3.160+0	3.316+1	3.312+1	3.161+1
1.789+4	7.956-1	7.967-1	5.155+1	2.554+1	2.520+1	8.103-1	3.160+0	1.618+2	5.346+0	2.926+0
1.887+4	1.821+0	1.826+0	2.253+1	2.241+1	6.002-2	5.354-2	3.160+0	7.765+1	4.737+1	4.425+1
1.989+4	1.802+0	1.907+0	2.157+1	2.151+1	7.942+3	4.829+2	3.160+0	3.921+1	4.354+1	4.169+1
2.091+4	6.591-1	6.609-1	4.774+1	3.671+1	1.064+1	3.935-1	3.160+0	6.867+1	2.646+1	1.534+0
2.741+4	1.154+0	1.156+0	3.555+1	2.749+1	7.789+0	2.710-1	3.160+0	5.115+1	2.508+0	1.419+0
3.267+4	1.155+0	1.158+0	3.550+1	3.134+1	3.995+0	1.653-1	3.160+0	2.591+1	1.432+0	8.668+1
3.811+4	1.038+0	1.040+0	3.953+1	3.407+1	5.246+0	2.092-1	3.160+0	3.396+1	1.650+0	8.952+1
4.704+4	1.473+0	1.476+0	2.785+1	2.325+1	4.412+0	1.923-1	3.160+0	2.868+1	2.083+0	1.285+0
4.991+4	6.200-1	6.216-1	6.615+1	6.317+1	2.807+0	1.788-1	3.160+0	1.865+1	7.235-1	5.033-1
5.650+4	1.607+0	1.611+0	2.552+1	2.463+1	4.680+1	4.301-1	3.160+0	5.952+0	3.350+0	3.137+0
6.042+4	8.285-1	8.306-1	4.950+1	4.471+1	4.588+0	1.760-1	3.160+0	2.965+1	1.125+0	6.621+1
6.367+4	7.755-1	7.774-1	5.289+1	4.524+1	5.174+0	1.964-1	3.160+0	3.343+1	1.880+0	6.913+1
7.156+4	1.170+0	1.173+0	3.565+1	3.213+1	2.767+0	1.579-1	3.160+0	1.819+1	1.243+0	6.350+1
8.322+4	7.086-1	7.105-1	5.788+1	4.493+1	2.781+0	1.840-1	3.160+0	1.839+1	7.752-1	5.276-1
9.177+4	1.201+0	1.204+0	3.414+1	3.113+1	2.924+0	8.298-2	3.160+0	1.869+1	8.743-1	4.526-1
1.058+3	1.651+0	1.655+0	2.484+1	2.219+1	2.562+0	8.298-2	3.160+0	1.645+1	1.133+0	6.220+1
1.307+3	2.603+0	2.609+0	1.576+1	1.371+1	1.961+0	8.297-2	3.160+0	1.273+1	1.606+0	9.805+1
1.581+3	3.104+0	3.112+0	1.321+1	1.138+1	1.754+0	8.296-2	3.160+0	1.145+1	1.842+0	1.169+0
1.682+3	3.127+0	3.134+0	1.312+1	1.134+1	1.691+0	8.295-2	3.160+0	1.106+1	1.835+0	1.177+0
2.208+3	3.152+0	3.160+0	1.301+1	1.131+1	1.628+0	8.294-2	3.160+0	1.063+1	1.822+0	1.187+0
2.561+3	3.182+0	3.199+0	1.285+1	1.127+1	1.500+0	8.293-2	3.161+0	9.678+0	1.800+0	1.202+0
2.940+3	3.242+0	3.250+0	1.265+1	1.123+1	1.343+0	8.292-2	3.161+0	8.207+0	1.770+0	1.220+0
3.345+3	3.297+0	3.305+0	1.244+1	1.118+1	1.176+0	8.291-2	3.161+0	7.871+0	1.736+0	1.241+0
3.777+3	3.353+0	3.361+0	1.223+1	1.113+1	1.016+0	8.289-2	3.161+0	6.882+0	1.704+0	1.264+0
4.234+3	3.412+0	3.420+0	1.202+1	1.103+1	9.097+0	8.287-2	3.161+0	6.225+0	1.699+0	1.283+0
5.763+3	3.480+0	3.497+0	1.176+1	1.086+1	8.197+0	8.286-2	3.161+0	5.683+0	1.683+0	1.311+0
7.527+3	3.581+0	3.590+0	1.145+1	1.062+1	7.528+0	8.275-2	3.162+0	5.255+0	1.709+0	1.345+0
1.025+2	3.657+0	3.668+0	1.121+1	1.047+1	6.581+0	8.264-2	3.163+0	4.670+0	1.704+0	1.372+0
1.511+2	3.706+0	3.732+0	1.107+1	1.042+1	5.639+0	8.248-2	3.164+0	4.087+0	1.695+0	1.388+0
2.091+2	3.748+0	3.793+0	1.094+1	1.036+1	4.973+0	8.231-2	3.165+0	3.676+0	1.672+0	1.401+0
2.646+2	3.781+0	3.842+0	1.085+1	1.030+1	4.617+0	8.214-2	3.166+0	3.456+0	1.668+0	1.410+0
3.267+2	3.813+0	3.895+0	1.076+1	1.024+1	4.356+0	8.195-2	3.161+0	3.295+0	1.668+0	1.449+0
3.953+2	3.849+0	3.954+0	1.065+1	1.014+1	4.057+0	8.174-2	3.161+0	3.111+0	1.667+0	1.428+0
4.704+2	3.901+0	4.032+0	1.051+1	1.008+1	3.898+0	8.147-2	3.171+0	6.980+3	1.659+0	1.443+0
5.761+2	3.952+0	4.144+0	1.035+1	9.962+0	2.891+1	8.113-2	3.173+0	2.385+0	1.652+0	1.460+0
7.002+2	4.025+0	4.272+0	1.019+1	9.834+0	2.463+1	8.076-2	3.176+0	3.011+2	1.651+0	1.476+0
8.322+2	4.089+0	4.412+0	1.003+1	9.689+0	2.159+1	8.033-2	3.179+0	2.927+2	1.655+0	1.492+0
9.891+2	4.249+0	4.674+0	9.652+0	9.319+0	1.672+1	7.963-2	3.184+0	6.647+2	1.692+0	1.536+0
1.307+1	4.613+0	5.279+0	8.892+0	8.530+0	1.603+1	7.841-2	3.193+0	1.231+1	1.797+0	1.642+0
1.820+1	4.967+0	5.948+0	8.257+0	7.816+0	1.440+1	7.728-2	3.201+0	2.152+1	1.970+0	1.802+0
2.075+1	5.064+0	6.160+0	8.099+0	7.589+0	1.348+1	7.640-2	3.207+0	2.989+1	1.909+0	1.717+0
2.417+1	5.103+0	6.348+0	8.034+0	7.446+0	1.283+1	7.546-2	3.214+0	3.836+1	1.906+0	1.749+0
2.710+1	5.139+0	6.492+0	7.982+0	7.329+0	1.249+1	7.469-2	3.219+0	4.533+1	1.941+0	1.743+0
2.940+1	5.166+0	6.592+0	7.939+0	7.186+0	1.216+1	7.376-2	3.226+0	5.577+1	2.493+0	1.730+0
3.345+1	5.194+0	6.732+0	7.920+0	6.998+0	1.174+1	7.245-2	3.235+0	7.244+1	2.960+0	1.691+0
3.777+1	5.180+0	6.835+0	7.918+0	6.801+0	1.147+1	7.095-2	3.244+0	9.621+1	3.974+0	2.558+0
4.234+1	5.159+0	6.853+0	7.950+0	6.529+0	1.152+1	1.357+1	3.258+0	1.170+0	5.018+0	3.418+0
5.123+1	5.080+0	6.764+0	8.073+0	6.112+0	1.209+1	3.382+1	3.282+0	1.503+0	7.492+0	8.243+0
6.325+1	4.960+0	6.627+0	8.270+0	5.653+0	1.269+1	6.508+1	3.306+0	1.839+0	1.080+1	1.539+1

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ENDL 175 Group Neutron Constants

96-Cm-248

ATOMIC WEIGHT 240.01 ± 2				DENSITY 1.0041 ± 1 GRAMS/CC					
ENERGY	HFP (CM)		CROSS SECTION (BARNES)				ENERGY DEPOSITION (V)		
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.
7.527-1	4.865+0	6.500+0	8.431+0	5.200+0	1.315-1	1.072+0	3.532+0	2.027+0	1.425+0
8.634-1	4.831+0	6.729+0	8.489+0	4.774+0	1.317-1	1.503+0	3.360+0	2.080+0	1.793+0
1.025-0	4.971+0	7.373+0	8.251+0	4.394+0	1.211-1	1.655+0	3.290+0	2.080+0	1.943+0
1.175+0	5.172+0	7.563+0	9.300+0	4.061+0	1.037-1	1.717+0	3.233+0	2.133+0	1.970+0
1.338+0	5.374+0	7.797+0	7.632+0	3.790+0	8.639-2	1.740+0	3.458+0	2.150+0	1.999+0
1.511+0	5.539+0	8.026+0	7.405+0	3.602+0	7.319-2	1.750+0	3.495+0	1.980+0	2.003+0
1.694+0	5.659+0	8.194+0	7.248+0	3.495+0	6.107-2	1.750+0	3.534+0	1.942+0	1.986+0
1.881+0	5.750+0	8.373+0	7.108+0	3.425+0	5.160-2	1.750+0	3.576+0	1.907+0	1.957+0
2.071+0	5.827+0	8.544+0	7.039+0	3.395+0	4.334-2	1.750+0	3.620+0	1.860+0	1.939+0
2.265+0	5.842+0	8.705+0	7.021+0	3.418+0	3.649-2	1.750+0	3.665+0	1.816+0	1.908+0
2.463+0	5.843+0	8.889+0	7.019+0	3.481+0	3.129-2	1.734+0	3.711+0	1.773+0	1.877+0
2.664+0	5.844+0	9.089+0	7.010+0	3.561+0	2.648-2	1.706+0	3.761+0	1.725+0	1.843+0
2.868+0	5.798+0	9.271+0	7.074+0	3.665+0	2.226-2	1.675+0	3.816+0	1.711+0	1.814+0
3.077+0	5.729+0	9.378+0	7.159+0	3.763+0	1.900-2	1.645+0	3.871+0	1.732+0	1.790+0
3.293+0	5.660+0	9.502+0	7.246+0	3.863+0	1.596-2	1.613+0	3.928+0	1.754+0	1.766+0
3.514+0	5.606+0	9.646+0	7.316+0	3.945+0	1.391-2	1.582+0	3.984+0	1.775+0	1.742+0
3.739+0	5.566+0	9.777+0	7.369+0	4.010+0	1.216-2	1.549+0	4.045+0	1.799+0	1.716+0
3.966+0	5.545+0	9.889+0	7.396+0	4.051+0	1.060-2	1.511+0	4.111+0	1.824+0	1.688+0
4.204+0	5.534+0	9.989+0	7.411+0	4.078+0	9.147-3	1.476+0	4.173+0	1.848+0	1.661+0
4.451+0	5.559+0	1.012+1	7.378+0	4.058+0	7.937-3	1.438+0	4.241+0	1.874+0	1.672+0
4.703+0	5.603+0	1.028+1	7.320+0	4.014+0	7.036-3	1.404+0	4.311+0	1.895+0	1.719+0
4.960+0	5.659+0	1.045+1	7.265+0	3.963+0	6.107-3	1.402+0	4.377+0	1.877+0	1.740+0
5.224+0	5.709+0	1.059+1	7.184+0	3.899+0	5.373-3	1.623+0	4.444+0	1.677+0	1.817+0
5.497+0	5.786+0	1.065+1	7.089+0	3.808+0	4.817-3	1.850+0	4.538+0	1.426+0	1.866+0
5.777+0	5.903+0	1.079+1	6.946+0	3.693+0	4.221-3	1.900+0	4.623+0	1.350+0	1.917+0
6.064+0	6.015+0	1.091+1	6.819+0	3.565+0	3.999-3	1.970+0	4.711+0	1.350+0	1.922+0
6.358+0	6.128+0	1.094+1	6.693+0	3.447+0	3.808-3	1.900+0	4.793+0	1.342+0	1.915+0
6.659+0	6.252+0	1.104+1	6.560+0	3.327+0	3.541-3	1.900+0	4.877+0	1.329+0	1.907+0
6.967+0	6.390+0	1.113+1	6.419+0	3.201+0	2.980-3	1.900+0	4.972+0	1.315+0	1.899+0
7.282+0	6.526+0	1.122+1	6.285+0	3.081+0	2.460-3	1.898+0	5.064+0	1.305+0	1.888+0
7.604+0	6.654+0	1.129+1	6.164+0	2.969+0	2.232-3	1.858+0	5.159+0	1.335+0	1.856+0
7.935+0	6.782+0	1.135+1	6.048+0	2.861+0	2.045-3	1.811+0	5.261+0	1.374+0	1.818+0
8.276+0	6.895+0	1.141+1	5.948+0	2.769+0	1.894-3	1.765+0	5.361+0	1.412+0	1.782+0
8.627+0	6.978+0	1.147+1	5.877+0	2.706+0	1.760-3	1.729+0	5.458+0	1.449+0	1.746+0
8.988+0	7.057+0	1.152+1	5.812+0	2.646+0	1.616-3	1.672+0	5.562+0	1.492+0	1.771+0
9.358+0	7.126+0	1.159+1	5.756+0	2.604+0	1.469-3	1.650+0	5.668+0	1.500+0	1.843+0
9.738+0	7.152+0	1.157+1	5.735+0	2.571+0	1.351-3	1.835+0	5.773+0	1.328+0	1.912+0
1.012+1	7.146+0	1.155+1	5.739+0	2.560+0	1.243-3	2.056+0	5.889+0	1.122+0	1.990+0
1.047+1	7.132+0	1.156+1	5.751+0	2.555+0	1.139-3	2.100+0	6.001+0	1.085+0	2.016+0
1.083+1	7.138+0	1.164+1	5.746+0	2.580+0	1.059-3	2.107+0	6.087+0	1.065+0	2.007+0
1.119+1	7.142+0	1.171+1	5.743+0	2.592+0	1.004-3	2.109+0	6.151+0	1.050+0	2.000+0
1.155+1	7.143+0	1.177+1	5.742+0	2.604+0	9.775-4	2.100+0	6.210+0	1.036+0	1.992+0
1.191+1	7.140+0	1.183+1	5.744+0	2.621+0	9.546-4	2.100+0	6.270+0	1.023+0	1.983+0
1.227+1	7.134+0	1.191+1	5.749+0	2.644+0	9.221-4	2.096+0	6.354+0	1.008+0	1.970+0
1.263+1	7.102+0	1.199+1	5.775+0	2.684+0	8.775-4	2.044+0	6.470+0	1.047+0	1.944+0
1.299+1	7.056+0	1.207+1	5.813+0	2.733+0	8.297-4	1.975+0	6.594+0	1.104+0	1.913+0
1.335+1	7.013+0	1.214+1	5.896+0	2.780+0	7.810-4	1.905+0	6.721+0	1.163+0	1.882+0
1.371+1	6.970+0	1.220+1	5.889+0	2.828+0	7.314-4	1.833+0	6.850+0	1.222+0	1.850+0
1.407+1	6.934+0	1.229+1	5.915+0	2.876+0	6.810-4	1.812+0	6.979+0	1.227+0	1.867+0
1.443+1	6.910+0	1.239+1	5.936+0	2.919+0	6.296-4	2.114+0	7.108+0	1.202+0	1.927+0
1.479+1	6.859+0	1.245+1	5.980+0	2.980+0	5.519-4	2.200+0	7.301+0	1.207+0	1.917+0
2.000+1									
RESONANCE INTEGRALS			7.606+2	4.782+2	2.601+2	1.146+1		6.835+0	1.867+3
MAXWELLIAN AVERAGES			1.439+1	1.136+1	1.722+0	3.029+1	3.160+0		1.900+1
1/E AVERAGES			4.449+1	2.732+1	1.600+1	8.831+1	3.648+0	3.904+1	1.067+2
FISSION AVERAGES			7.647+0	4.542+0	7.620+2	1.339+0	3.695+0	1.620+0	1.568+1
FISSION AVERAGES			5.745+0	2.597+0	1.010+3	2.100+0	6.166+0	1.047+0	1.997+1

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ENDL 175 Group Neutron Constants

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.4901 ± 2				DENSITY 1.0000 ± 1 GRAMS/CC				ENERGY DEPOSIT (MEV)			
ENERGY	MFP (CM)		CROSS SECTION (BARN)								
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.301-9	8.290-3	8.290-3	4.987-3	1.134-1	4.973-3	2.940-0	3.210-0	0	3.611-4	5.070-0	1.097-1
1.527-9	1.031-2	1.731-2	2.309-3	1.134-1	2.376-3	1.659-0	3.210-0	0	1.725-4	5.070-0	1.144-1
2.091-8	2.608-2	2.608-2	1.585-3	1.109-1	1.572-3	9.791-1	3.210-0	0	1.142-4	5.040-0	1.149-1
3.267-8	3.179-2	3.179-2	1.301-3	1.543-1	1.284-3	8.010-1	3.210-0	0	9.325-3	5.027-0	1.146-1
4.704-8	4.003-2	4.004-2	1.033-3	2.252-1	1.010-3	6.304-1	3.210-0	0	7.331-3	4.977-0	1.135-1
6.322-8	5.044-2	5.045-2	8.197-2	3.426-1	7.849-2	4.901-1	3.210-0	0	5.699-3	4.875-0	1.113-1
8.107-7	5.983-2	5.984-2	6.911-2	4.899-1	6.417-2	4.005-1	3.210-0	0	4.659-3	4.727-0	1.078-1
1.062-7	6.775-2	6.777-2	6.103-2	6.659-1	5.433-2	3.389-1	3.210-0	0	3.953-3	4.532-0	1.033-1
2.581-7	7.404-2	7.407-2	5.584-2	8.714-1	4.710-2	2.936-1	3.210-0	0	3.420-3	4.294-0	9.794-2
3.345-7	7.852-2	7.856-2	5.266-2	1.106-2	4.157-2	2.591-1	3.210-0	0	3.018-3	4.019-0	9.154-2
4.234-7	6.885-2	6.889-2	6.006-2	1.356-2	4.549-2	2.331-1	3.210-0	0	3.374-3	3.921-0	7.221-2
5.123-7	6.237-2	6.237-2	3.629-2	1.689-2	6.460-2	2.016-1	3.210-0	0	4.688-4	4.849-0	5.560-3
7.527-7	2.375-1	2.375-1	1.741-1	2.411-1	1.499-2	1.634-1	3.210-0	0	1.088-3	4.459-0	1.746-1
1.176-6	5.591-1	5.595-1	7.395-1	1.791-1	5.990-1	1.378-1	3.210-0	0	4.066-2	4.119-0	3.468-1
1.511-6	2.594-1	2.594-1	1.594-1	3.600-1	1.534-1	1.192-1	3.210-0	0	1.113-4	4.797-0	1.392-2
2.051-6	4.616-1	4.619-1	8.585-1	1.923-1	6.652-1	1.032-1	3.210-0	0	4.834-2	4.083-0	2.236-1
2.741-6	4.529-1	4.529-1	9.130-1	5.116-1	8.617-2	9.694-2	3.210-0	0	6.354-3	4.712-0	1.976-2
3.533-6	7.453-2	7.455-2	5.547-2	4.075-1	5.139-2	9.311-2	3.210-0	0	3.729-3	4.637-0	3.123-2
4.704-6	6.905-2	6.908-2	2.987-2	4.658-1	5.520-2	9.012-2	3.210-0	0	4.006-3	4.016-0	2.801-2
5.658-6	8.473-2	8.475-2	4.880-2	4.483-1	4.431-2	8.752-2	3.210-0	0	3.215-3	4.547-0	3.338-2
6.737-6	1.192-1	1.192-1	3.469-2	4.028-1	2.885-2	8.512-2	3.210-0	0	2.167-3	4.325-0	4.566-2
8.322-6	1.092-1	1.092-1	3.787-2	4.585-1	3.089-2	8.276-2	3.210-0	0	2.242-3	4.037-0	4.057-2
9.620-6	1.227-1	1.228-1	3.369-2	6.122-1	2.756-2	8.112-2	3.210-0	0	2.000-3	4.112-0	4.481-2
1.101-5	3.349-1	3.350-1	1.255-2	1.979-1	1.036-2	7.921-2	3.210-0	0	7.522-2	4.294-0	1.194-1
1.307-5	3.618-1	3.620-1	1.143-2	1.946-1	9.474-1	7.752-2	3.210-0	0	5.880-2	4.252-0	1.262-1
1.468-5	3.809-1	3.810-1	1.086-2	1.921-1	8.927-1	7.648-2	3.210-0	0	5.880-2	4.223-0	1.311-1
1.581-5	3.999-1	4.001-1	1.034-2	1.895-1	8.437-1	7.538-2	3.210-0	0	6.127-2	4.197-0	1.357-1
1.759-5	4.188-1	4.190-1	9.873-1	1.873-1	7.992-1	7.435-2	3.210-0	0	5.805-2	4.169-0	1.401-1
1.802-5	4.375-1	4.377-1	9.452-1	1.856-1	7.569-1	7.350-2	3.210-0	0	5.512-2	4.191-0	1.447-1
2.075-5	4.599-1	4.602-1	8.990-1	1.834-1	7.149-1	7.245-2	3.210-0	0	5.193-2	4.106-0	1.499-1
2.277-5	4.787-1	4.790-1	8.637-1	1.815-1	6.814-1	7.155-2	3.210-0	0	4.949-2	4.082-0	1.541-1
2.417-5	4.935-1	4.938-1	8.378-1	1.800-1	6.572-1	7.095-2	3.210-0	0	4.773-2	4.062-0	1.576-1
2.561-5	5.086-1	5.089-1	8.129-1	1.784-1	6.338-1	7.038-2	3.210-0	0	4.604-2	4.042-0	1.611-1
2.710-5	5.232-1	5.235-1	7.903-1	1.773-1	6.124-1	6.980-2	3.210-0	0	4.448-2	4.022-0	1.643-1
2.862-5	5.344-1	5.347-1	7.737-1	1.755-1	5.966-1	6.935-2	3.210-0	0	4.374-2	4.006-0	1.668-1
2.940-5	5.450-1	5.453-1	7.587-1	1.756-1	5.824-1	6.890-2	3.210-0	0	4.231-2	3.991-0	1.690-1
3.099-5	5.634-1	5.638-1	7.339-1	1.742-1	5.590-1	6.823-2	3.210-0	0	4.061-2	3.966-0	1.730-1
3.345-5	5.852-1	5.856-1	7.065-1	1.724-1	5.334-1	6.751-2	3.210-0	0	3.875-2	3.937-0	1.778-1
3.601-5	6.070-1	6.074-1	6.812-1	1.706-1	5.099-1	6.676-2	3.210-0	0	3.705-2	3.910-0	1.824-1
3.866-5	6.252-1	6.256-1	6.614-1	1.693-1	4.914-1	6.613-2	3.210-0	0	3.570-2	3.886-0	1.861-1
4.049-5	6.390-1	6.395-1	6.470-1	1.684-1	4.780-1	6.574-2	3.210-0	0	3.473-2	3.868-0	1.891-1
4.234-5	6.499-1	6.504-1	6.362-1	1.678-1	4.678-1	6.547-2	3.210-0	0	3.399-2	3.854-0	1.915-1
4.329-5	6.639-1	6.644-1	6.228-1	1.668-1	4.553-1	6.511-2	3.210-0	0	3.308-2	3.836-0	1.945-1
4.619-5	6.779-1	6.784-1	6.099-1	1.659-1	4.433-1	6.474-2	3.210-0	0	3.221-2	3.818-0	1.975-1
4.717-5	6.986-1	6.991-1	6.005-1	1.652-1	4.346-1	6.446-2	3.210-0	0	3.158-2	3.805-0	1.998-1
4.918-5	7.014-1	7.019-1	5.895-1	1.643-1	4.246-1	6.408-2	3.210-0	0	3.085-2	3.790-0	2.023-1
5.123-5	7.149-1	7.153-1	5.765-1	1.633-1	4.146-1	6.368-2	3.210-0	0	3.012-2	3.775-0	2.049-1
5.332-5	7.324-1	7.330-1	5.645-1	1.622-1	4.017-1	6.318-2	3.210-0	0	2.919-2	3.753-0	2.083-1
5.544-5	7.472-1	7.478-1	5.534-1	1.615-1	3.913-1	6.278-2	3.210-0	0	2.843-2	3.734-0	2.111-1
5.733-5	7.609-1	7.616-1	5.434-1	1.608-1	3.820-1	6.236-2	3.210-0	0	2.775-2	3.716-0	2.135-1
6.097-5	7.766-1	7.772-1	5.324-1	1.599-1	3.719-1	6.183-2	3.210-0	0	2.703-2	3.697-0	2.161-1
6.325-5	7.898-1	7.905-1	5.235-1	1.591-1	3.638-1	6.146-2	3.210-0	0	2.644-2	3.681-0	2.185-1
6.557-5	8.002-1	8.008-1	5.167-1	1.586-1	3.576-1	6.126-2	3.210-0	0	2.599-2	3.669-0	2.206-1
6.674-5	8.147-1	8.154-1	5.078-1	1.578-1	3.491-1	6.099-2	3.210-0	0	2.537-2	3.644-0	2.236-1
7.034-5	8.291-1	8.298-1	4.987-1	1.570-1	3.411-1	6.072-2	3.210-0	0	2.479-2	3.635-0	2.266-1
7.155-5	8.414-1	8.421-1	4.914-1	1.562-1	3.346-1	6.043-2	3.210-0	0	2.432-2	3.622-0	2.288-1
7.527-5	8.570-1	8.578-1	4.824-1	1.554-1	3.265-1	6.008-2	3.210-0	0	2.373-2	3.604-0	2.317-1
7.780-5	8.668-1	8.676-1	4.770-1	1.549-1	3.215-1	5.996-2	3.210-0	0	2.337-2	3.592-0	2.335-1
7.908-5	8.769-1	8.777-1	4.715-1	1.545-1	3.164-1	5.964-2	3.210-0	0	2.300-2	3.580-0	2.354-1
8.157-5	8.910-1	8.918-1	4.641-1	1.539-1	3.096-1	5.934-2	3.210-0	0	2.250-2	3.563-0	2.379-1
8.411-5	9.073-1	9.082-1	4.557-1	1.531-1	3.020-1	5.904-2	3.210-0	0	2.195-2	3.544-0	2.407-1
8.834-5	9.223-1	9.231-1	4.483-1	1.524-1	2.954-1	5.857-2	3.210-0	0	2.147-2	3.527-0	2.431-1

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ATOMIC WEIGHT 2.4901 ± 2		DENSITY 1.0000 ± 1 GRAMS/CC									
ENERGY MEV	MFP (CM)	CROSS SECTION (BARN)						ENERGY DEPOSIT (MEV)			
	TOTAL	TRANSPORT	TOTAL	ELAS. C	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
4.108-5	9.348-1	9.356-1	4.423-1	1.517-1	2.900-1	5.825-2	3.210-0		2.109-2	3.514-0	2.451-1
4.386-5	9.478-1	9.487-1	4.362-1	1.511-1	2.846-1	5.794-2	3.210-0		2.069-2	3.499-0	2.471-1
9.568-5	9.580-1	9.589-1	4.316-1	1.506-1	2.804-1	5.775-2	3.210-0		2.039-2	3.488-0	2.490-1
9.911-5	9.718-1	9.727-1	4.255-1	1.500-1	2.749-1	5.754-2	3.210-0		1.999-2	3.473-0	2.517-1
1.025-4	9.952-1	9.962-1	4.194-1	1.493-1	2.686-1	5.711-2	3.210-0		1.931-2	3.444-0	2.558-1
1.099-4	1.005-0	1.026-0	4.035-1	1.484-1	2.545-1	5.656-2	3.210-0		1.851-2	3.407-0	2.609-1
1.176-4	1.056-0	1.057-0	3.916-1	1.474-1	2.436-1	5.599-2	3.210-0		1.771-2	3.368-0	2.661-1
1.256-4	1.084-0	1.085-0	3.814-1	1.465-1	2.344-1	5.540-2	3.210-0		1.705-2	3.335-0	2.703-1
1.339-4	1.111-0	1.112-0	3.722-1	1.456-1	2.261-1	5.486-2	3.210-0		1.644-2	3.304-0	2.743-1
1.406-4	1.141-0	1.142-0	3.624-1	1.446-1	2.173-1	5.438-2	3.210-0		1.581-2	3.271-0	2.792-1
1.511-4	1.171-0	1.172-0	3.531-1	1.435-1	2.090-1	5.391-2	3.210-0		1.521-2	3.239-0	2.841-1
1.601-4	1.200-0	1.201-0	3.447-1	1.426-1	2.013-1	5.346-2	3.210-0		1.465-2	3.203-0	2.886-1
1.694-4	1.226-0	1.228-0	3.371-1	1.421-1	1.945-1	5.301-2	3.210-0		1.415-2	3.171-0	2.926-1
1.789-4	1.252-0	1.254-0	3.302-1	1.415-1	1.882-1	5.254-2	3.210-0		1.370-2	3.141-0	2.961-1
1.887-4	1.280-0	1.281-0	3.231-1	1.408-1	1.818-1	5.207-2	3.210-0		1.323-2	3.109-0	2.999-1
1.989-4	1.306-0	1.308-0	3.166-1	1.400-1	1.760-1	5.169-2	3.210-0		1.281-2	3.079-0	3.039-1
2.091-4	1.333-0	1.335-0	3.099-1	1.375-1	1.588-1	5.038-2	3.210-0		1.156-2	2.980-0	3.159-1
2.194-4	1.361-0	1.363-0	3.031-1	1.345-1	1.381-1	4.837-2	3.210-0		1.066-2	2.857-0	3.296-1
3.267-4	1.607-0	1.609-0	2.573-1	1.322-1	1.246-1	4.686-2	3.210-0		9.076-3	2.760-0	3.389-1
3.811-4	1.714-0	1.716-0	2.413-1	1.297-1	1.111-1	4.516-2	3.210-0		8.097-3	2.652-0	3.483-1
4.704-4	1.922-0	1.925-0	2.307-1	1.281-1	1.022-1	4.401-2	3.210-0		7.447-3	2.571-0	3.550-1
5.691-4	1.902-0	1.905-0	2.174-1	1.268-1	9.012-3	4.316-2	3.210-0		6.570-3	2.445-0	3.695-1
6.998-4	2.045-0	2.048-0	2.022-1	1.255-1	7.634-3	4.240-2	3.210-0		5.570-3	2.282-0	3.901-1
8.242-4	2.130-0	2.133-0	1.911-1	1.248-1	6.689-3	4.190-2	3.210-0		5.029-3	2.182-0	4.016-1
9.357-4	2.251-0	2.255-0	1.837-1	1.239-1	5.946-3	4.115-2	3.210-0		4.344-3	2.043-0	4.170-1
1.156-3	2.439-0	2.444-0	1.695-1	1.220-1	4.703-3	4.009-2	3.210-0		3.446-3	1.839-0	4.401-1
9.322-4	2.603-0	2.608-0	1.588-1	1.205-1	3.795-3	3.909-2	3.210-0		2.782-3	1.664-0	4.579-1
9.177-4	2.746-0	2.752-0	1.506-1	1.191-1	3.109-3	3.818-2	3.210-0		2.283-3	1.517-0	4.719-1
1.058-3	2.994-0	2.990-0	1.429-1	1.169-1	2.562-3	3.694-2	3.210-0		1.885-3	1.390-0	4.798-1
1.357-3	3.073-0	3.080-0	1.346-1	1.146-1	1.961-3	3.540-2	3.210-0		1.448-3	1.234-0	4.895-1
1.581-3	3.141-0	3.148-0	1.316-1	1.138-1	1.754-3	3.418-2	3.210-0		1.297-3	1.185-0	4.932-1
1.882-3	3.164-0	3.172-0	1.307-1	1.134-1	1.691-3	3.315-2	3.210-0		1.251-3	1.135-0	4.721-1
2.209-3	3.190-0	3.198-0	1.296-1	1.131-1	1.622-3	3.205-2	3.211-0		1.200-3	1.101-0	4.603-1
2.561-3	3.231-0	3.238-0	1.280-1	1.127-1	1.500-3	3.120-2	3.211-0		1.111-3	1.055-0	4.537-1
2.940-3	3.282-0	3.290-0	1.260-1	1.123-1	1.343-3	3.039-2	3.211-0		9.765-4	9.971-1	4.489-1
3.345-3	3.338-0	3.346-0	1.239-1	1.118-1	1.176-3	2.958-2	3.211-0		8.747-4	9.343-1	4.444-1
3.777-3	3.395-0	3.403-0	1.219-1	1.113-1	1.016-3	2.895-2	3.211-0		7.583-4	8.750-1	4.423-1
4.344-3	3.455-0	3.464-0	1.197-1	1.103-1	9.097-4	2.770-2	3.211-0		6.804-4	8.262-1	4.307-1
5.763-3	3.534-0	3.542-0	1.170-1	1.086-1	8.197-4	2.616-2	3.211-0		6.142-4	7.914-1	4.180-1
7.527-3	3.628-0	3.637-0	1.140-1	1.062-1	7.528-4	2.469-2	3.212-0		5.648-4	7.404-1	4.032-1
1.025-2	3.707-0	3.717-0	1.115-1	1.047-1	6.581-4	2.301-2	3.213-0		4.951-4	6.934-1	3.840-1
1.511-2	3.757-0	3.763-0	1.101-1	1.042-1	6.539-4	2.145-2	3.214-0		4.259-4	6.330-1	3.628-1
2.091-2	3.807-0	3.815-0	1.088-1	1.035-1	6.473-4	2.031-2	3.215-0		3.770-4	5.897-1	3.474-1
2.646-2	3.834-0	3.897-0	1.079-1	1.030-1	6.417-4	1.925-2	3.216-0		3.507-4	5.500-1	3.326-1
3.267-2	3.860-0	3.850-0	1.069-1	1.024-1	6.356-4	1.832-2	3.218-0		3.314-4	5.359-1	3.191-1
3.953-2	3.904-0	4.111-0	1.059-1	1.017-1	6.057-4	1.750-2	3.219-0		3.094-4	5.123-1	3.078-1
4.704-2	3.950-0	4.092-0	1.045-1	1.008-1	3.488-4	1.669-2	3.221-0	5.486-3	2.676-4	4.773-1	2.977-1
5.761-2	4.016-0	4.201-0	1.029-1	9.962-4	2.891-4	1.588-2	3.224-0	2.763-2	2.237-4	4.405-1	2.875-1
7.022-2	4.074-0	4.326-0	1.015-1	9.834-4	2.463-4	1.516-2	3.226-0	5.323-2	1.922-4	4.125-1	2.786-1
9.322-2	4.134-0	4.600-0	1.000-1	9.689-4	2.159-4	1.452-2	3.230-0	8.212-2	1.698-4	3.914-1	2.707-1
9.891-2	4.285-0	4.713-0	9.649-4	9.319-4	1.872-4	1.372-2	3.235-0	1.296-1	1.487-4	3.756-1	2.652-1
1.307-1	4.622-0	5.285-0	8.946-4	8.530-4	1.603-4	1.272-2	3.243-0	2.425-1	1.290-4	3.706-1	2.65-1
1.620-1	4.925-0	5.877-0	8.396-4	7.816-4	1.440-4	1.203-2	3.252-0	4.235-1	1.171-4	3.728-1	2.677-1
2.075-1	4.976-0	6.021-0	8.302-4	7.589-4	1.348-4	1.158-2	3.258-0	5.729-1	1.105-4	3.641-1	2.666-1
2.417-1	4.970-0	6.127-0	8.320-4	7.446-4	1.283-4	1.122-2	3.265-0	7.342-1	1.059-4	3.555-1	2.523-1
2.710-1	4.959-0	6.196-0	8.339-4	7.329-4	1.249-4	1.094-2	3.271-0	8.733-1	1.036-4	3.505-1	2.457-1
2.942-1	4.945-0	6.224-0	8.361-4	7.186-4	1.216-4	1.054-2	3.277-0	1.043-0	3.210-4	3.463-1	2.388-1
3.345-1	4.927-0	6.291-0	8.391-4	6.998-4	1.176-4	1.033-2	3.286-0	1.266-0	4.230-4	3.438-1	2.309-1
3.777-1	4.907-0	6.353-0	8.427-4	6.801-4	1.147-4	1.094-2	3.295-0	1.501-0	4.965-4	3.628-1	2.412-1
4.233-1	4.865-0	6.328-0	8.499-4	6.529-4	1.152-4	1.095-2	3.311-0	1.836-0	6.074-4	5.645-1	4.189-1
5.123-1	4.942-0	6.504-0	8.367-4	6.112-4	1.209-4	3.298-2	3.334-0	2.101-0	7.475-4	9.299-1	7.354-1
6.325-1	5.090-0	6.843-0	8.123-4	5.653-4	1.269-4	7.346-2	3.362-0	2.270-0	8.914-4	1.947-4	1.683-4

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ENDL 175 Group Neutron Constants

97-Bk-249

ATOMIC WEIGHT 2.4501 ± 2			DENSITY 1.0000 ± 1 GRAMS/CC									
ENERGY	MP (CM)		CROSS SECTION (BARNs)									
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.		ENERGY DEPOSIT (MEV)	
											TOTAL	LOCAL
7.527-1	5.144+0	6.987+0	8.038+0	5.200+0	1.315-1	3.156-1	3.388+0	2.391+0	1.041+1		7.823+0	7.295+0
6.834-1	5.202+0	7.150+0	7.949+0	4.774+0	1.317-1	6.710-1	3.416+0	2.872+0	1.201+1		1.115+1	1.134+1
1.025+0	5.285+0	8.070+0	7.825+0	4.394+0	1.214-1	7.671-1	3.447+0	2.540+0	1.337+1		1.924+1	1.820+1
1.176+0	5.377+0	7.799+0	7.690+0	4.061+0	1.037-1	9.369-1	3.480+0	2.586+0	1.458+1		2.366+1	2.261+1
1.330+0	5.519+0	8.089+0	7.491+0	3.790+0	8.639-2	1.049+0	3.516+0	2.565+0	1.587+1		2.741+1	2.598+1
1.511+0	5.629+0	8.175+0	7.246+0	3.602+0	7.319-2	1.141+0	3.554+0	2.530+0	1.669+1		3.038+1	2.879+1
1.694+0	5.692+0	8.242+0	7.054+0	3.435+0	6.107-2	1.216+0	3.594+0	2.492+0	1.713+1		3.274+1	3.103+1
1.867+0	5.747+0	8.308+0	6.795+0	3.245+0	5.160-2	1.288+0	3.637+0	2.450+0	1.752+1		3.502+1	3.317+1
2.091+0	5.800+0	8.451+0	6.523+0	3.085+0	4.334-2	1.310+0	3.682+0	2.391+0	1.743+1		3.594+1	3.402+1
2.305+0	5.823+0	8.636+0	6.250+0	2.941+0	3.649-2	1.321+0	3.729+0	2.325+0	1.723+1		3.640+1	3.442+1
2.530+0	5.821+0	8.804+0	5.930+0	2.801+0	3.129-2	1.332+0	3.775+0	2.259+0	1.703+1		3.670+1	3.468+1
2.741+0	5.808+0	8.976+0	5.610+0	2.651+0	2.648-2	1.344+0	3.827+0	2.187+0	1.681+1		3.697+1	3.489+1
3.011+0	5.784+0	9.143+0	5.280+0	2.501+0	2.266-2	1.353+0	3.883+0	2.143+0	1.660+1		3.669+1	3.459+1
3.267+0	5.709+0	9.279+0	4.940+0	2.351+0	1.900-2	1.330+0	3.939+0	2.100+0	1.641+1		3.603+1	3.390+1
3.533+0	5.655+0	9.433+0	4.590+0	2.201+0	1.596-2	1.316+0	3.998+0	2.116+0	1.622+1		3.537+1	3.322+1
3.811+0	5.614+0	9.611+0	4.250+0	2.051+0	1.381-2	1.303+0	4.052+0	2.103+0	1.603+1		3.480+1	3.262+1
4.069+0	5.582+0	9.765+0	3.910+0	1.901+0	1.216-2	1.285+0	4.118+0	2.100+0	1.582+1		3.477+1	3.195+1
4.396+0	5.569+0	9.933+0	3.570+0	1.751+0	1.060-2	1.263+0	4.186+0	2.100+0	1.559+1		3.359+1	3.133+1
4.704+0	5.564+0	1.002+1	3.230+0	1.601+0	9.147-3	1.243+0	4.250+0	2.100+0	1.538+1		3.310+1	3.079+1
4.991+0	5.597+0	1.018+1	2.890+0	1.451+0	7.937-3	1.222+0	4.319+0	2.100+0	1.515+1		3.278+1	3.041+1
5.253+0	5.646+0	1.036+1	2.550+0	1.301+0	7.036-3	1.202+0	4.392+0	2.100+0	1.490+1		3.261+1	3.016+1
5.658+0	5.683+0	1.054+1	2.210+0	1.151+0	6.107-3	1.201+0	4.473+0	2.099+0	1.616+1		3.295+1	3.030+1
6.042+0	5.742+0	1.064+1	1.870+0	1.001+0	5.373-3	1.282+0	4.557+0	2.015+0	1.653+1		3.331+1	3.265+1
6.367+0	5.814+0	1.068+1	1.530+0	0.851+0	4.817-3	1.406+0	4.639+0	1.693+0	1.690+1		3.883+1	3.622+1
6.737+0	5.911+0	1.075+1	1.190+0	0.701+0	4.221-3	1.489+0	4.733+0	1.808+0	1.728+1		4.135+1	3.898+1
7.156+0	6.019+0	1.081+1	8.869+0	3.565+0	3.959-3	1.570+0	4.829+0	1.730+0	1.740+1		4.401+1	4.179+1
7.549+0	6.125+0	1.087+1	6.751+0	3.447+0	3.808-3	1.600+0	4.917+0	1.700+0	1.744+1		4.559+1	4.331+1
7.910+0	6.236+0	1.093+1	4.631+0	3.327+0	3.541-3	1.609+0	5.009+0	1.700+0	1.748+1		4.632+1	4.405+1
8.322+0	6.363+0	1.100+1	2.498+0	3.201+0	2.980-3	1.594+0	5.113+0	1.700+0	1.752+1		4.705+1	4.474+1
8.787+0	6.508+0	1.111+1	6.353+0	3.081+0	2.560-3	1.568+0	5.214+0	1.702+0	1.752+1		4.732+1	4.496+1
9.177+0	6.636+0	1.119+1	6.231+0	2.969+0	2.232-3	1.539+0	5.318+0	1.721+0	1.722+1		4.737+1	4.494+1
9.665+0	6.762+0	1.125+1	6.115+0	2.861+0	2.045-3	1.507+0	5.429+0	1.745+0	1.683+1		4.733+1	4.481+1
1.012+1	6.874+0	1.131+1	6.015+0	2.769+0	1.894-3	1.475+0	5.538+0	1.768+0	1.645+1		4.720+1	4.457+1
1.058+1	6.955+0	1.136+1	5.945+0	2.706+0	1.760-3	1.447+0	5.644+0	1.790+0	1.608+1		4.688+1	4.415+1
1.101+1	7.053+0	1.146+1	5.862+0	2.646+0	1.616-3	1.415+0	5.758+0	1.820+0	1.621+1		4.658+1	4.373+1
1.155+1	7.122+0	1.153+1	5.806+0	2.604+0	1.469-3	1.400+0	5.867+0	1.830+0	1.673+1		4.663+1	4.364+1
1.199+1	7.138+0	1.148+1	5.792+0	2.571+0	1.351-3	1.474+0	5.969+0	1.746+0	1.723+1		4.699+1	4.599+1
1.250+1	7.149+0	1.151+1	5.783+0	2.560+0	1.243-3	1.634+0	6.083+0	1.588+0	1.780+1		5.384+1	5.099+1
1.307+1	7.188+0	1.165+1	5.753+0	2.565+0	1.139-3	1.696+0	6.192+0	1.500+0	1.794+1		5.567+1	5.285+1
1.354+1	7.191+0	1.173+1	5.704+0	2.580+0	1.059-3	1.669+0	6.276+0	1.500+0	1.783+1		5.512+1	5.227+1
1.386+1	7.191+0	1.178+1	5.700+0	2.592+0	1.004-3	1.656+0	6.339+0	1.501+0	1.775+1		5.470+1	5.182+1
1.413+1	7.181+0	1.181+1	5.756+0	2.604+0	9.775-4	1.644+0	6.396+0	1.509+0	1.766+1		5.424+1	5.134+1
1.441+1	7.165+0	1.184+1	5.771+0	2.621+0	9.546-4	1.631+0	6.454+0	1.518+0	1.757+1		5.374+1	5.081+1
1.468+1	7.142+0	1.187+1	5.769+0	2.644+0	9.221-4	1.614+0	6.537+0	1.530+0	1.745+1		5.304+1	5.007+1
1.519+1	7.102+0	1.193+1	5.822+0	2.684+0	8.775-4	1.590+0	6.650+0	1.547+0	1.731+1		5.202+1	4.898+1
1.575+1	7.051+0	1.198+1	5.864+0	2.733+0	8.297-4	1.565+0	6.772+0	1.566+0	1.718+1		5.088+1	4.778+1
1.633+1	7.003+0	1.204+1	5.904+0	2.789+0	7.810-4	1.539+0	6.895+0	1.584+0	1.705+1		4.977+1	4.661+1
1.692+1	6.956+0	1.208+1	5.944+0	2.828+0	7.314-4	1.512+0	7.021+0	1.604+0	1.692+1		4.867+1	4.543+1
1.752+1	6.905+0	1.212+1	5.988+0	2.876+0	6.810-4	1.507+0	7.151+0	1.624+0	1.710+1		4.820+1	4.489+1
1.813+1	6.868+0	1.218+1	6.021+0	2.919+0	6.296-4	1.696+0	7.265+0	1.602+0	1.756+1		5.332+1	5.015+1
1.875+1	6.857+0	1.236+1	6.030+0	2.980+0	5.519-4	1.750+0	7.406+0	1.300+0	1.826+1		5.473+1	5.154+1
2.000+1												
RESONANCE INTEGRALS			4.289+3	3.233+2	3.952+3	4.901+0			8.953+0	2.874+4		
MAXWELLIAN AVERAGES			1.457+3	1.968+1	1.437+3	8.908-1	3.210+0			1.043+4		
1/E AVERAGES			2.450+2	1.847+1	2.258+2	2.800-1	4.480+0	5.115+1	1.642+3			
FISSION AVERAGES			7.640+0	4.541+0	7.627-2	8.837-1	3.820+0	2.139+0	1.240+1			
FISSION AVERAGES			5.757+0	2.587+0	1.010-3	1.652+0	6.352+0	1.507+0	1.772+1			

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ENDL 175 Group Neutron Constants

98-Cf-249

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ENDL 175 Group Neutron Constants

98-Cf-249

ATOMIC WEIGHT 2.4908 ± 2				DENSITY 9.9235				0 GRAMS/CC	
ENERGY	MFP (CM)	TOTAL		CROSS SECTION (BARNs)				ENERGY DEPOSIT (MEV)	
MEV		TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINOFF	GAM-PROD.	LOCAL
1.307-9	5.613-3	5.613-3	7.171-3	1.154-4	1.406-3	5.753-3	3.920-0	5.311-4	1.555-2
1.337-9	1.297-2	1.297-2	3.392-2	1.154-4	7.025-2	2.628-3	3.920-0	2.479-4	1.525-2
2.031-6	1.978-2	1.978-2	2.108-3	1.157-4	4.681-2	1.628-3	3.920-0	1.564-4	1.426-2
3.267-6	2.518-2	2.518-2	1.655-3	1.174-4	3.829-2	1.261-3	3.920-0	1.229-4	1.406-2
4.704-8	3.402-2	3.402-2	1.225-3	1.210-4	3.014-2	9.117-2	3.920-0	9.102-3	1.374-2
8.322-8	4.692-2	4.692-2	8.083-2	2.168-4	2.344-2	6.412-2	3.920-0	6.597-3	1.233-2
1.307-7	5.945-2	5.945-2	7.011-2	1.342-4	1.915-2	4.962-2	3.920-0	5.194-3	1.307-2
1.682-7	6.842-2	6.842-2	6.932-2	1.429-4	1.621-2	4.328-2	3.920-0	4.487-3	1.312-2
2.561-7	7.004-2	7.005-2	6.951-2	1.532-4	1.405-2	4.393-2	3.920-0	4.344-3	1.363-2
3.345-7	6.022-2	6.023-2	6.921-2	1.649-4	1.239-2	5.517-2	3.920-0	4.998-3	1.472-2
4.234-7	3.971-2	3.971-2	1.050-3	1.773-4	1.115-2	9.205-2	3.920-0	7.508-3	1.692-2
5.123-7	1.313-2	1.313-2	3.174-3	1.979-4	9.619-3	3.058-3	3.920-0	2.255-4	1.779-2
7.527-7	2.708-2	2.708-2	1.539-3	2.647-4	7.814-3	1.435-3	3.920-0	1.687-4	1.721-2
1.176-6	1.946-2	1.946-2	5.142-2	2.268-4	6.599-3	1.255-3	3.920-0	1.487-4	1.082-2
5.111-6	3.659-2	3.659-2	1.139-3	2.119-4	5.706-3	3.664-3	3.920-0	7.579-3	6.513-1
2.091-6	5.043-2	5.046-2	8.265-1	1.886-4	4.919-3	1.460-3	3.920-0	5.328-2	3.790-1
2.741-6	5.456-2	5.459-2	7.640-1	1.751-4	4.317-3	1.572-3	3.920-0	4.882-2	3.329-1
3.533-6	3.037-2	3.038-2	1.377-3	1.742-4	3.822-3	8.611-3	3.920-0	9.128-2	1.161-2
4.704-6	1.528-2	1.528-2	2.727-2	2.107-4	1.100-2	1.416-2	3.920-0	1.986-3	1.025-2
5.658-6	1.202-2	1.204-2	3.467-1	1.957-4	2.419-3	1.266-3	3.920-0	1.110-2	7.064-1
6.737-6	6.127-1	6.132-1	6.802-1	1.775-4	3.782-3	4.649-3	3.920-0	3.631-2	1.317-2
8.322-6	2.731-2	2.732-2	1.526-3	1.846-4	6.874-3	1.273-2	3.920-0	9.638-2	1.606-2
9.520-6	4.403-2	4.405-2	9.466-1	1.915-4	3.192-3	7.232-3	3.920-0	5.413-2	1.470-2
1.101-5	9.944-1	9.956-1	4.191-1	1.750-4	3.095-3	2.132-3	3.920-0	1.784-2	9.923-1
1.307-5	2.555-1	2.556-1	1.631-2	2.251-4	1.078-2	3.279-3	3.920-0	1.174-3	3.400-1
1.468-5	1.080-1	1.082-1	3.857-1	1.814-4	2.918-3	1.752-3	3.920-0	1.498-2	8.777-1
1.581-5	2.435-1	2.435-1	1.712-2	2.201-4	5.659-3	9.249-3	3.920-0	1.151-3	1.060-2
1.758-5	1.364-1	1.367-1	3.055-1	2.129-4	2.172-3	7.174-3	3.920-0	6.969-2	4.559-1
1.862-5	8.895-1	8.966-1	4.686-1	2.048-4	5.400-3	2.097-3	3.920-0	1.960-2	8.677-1
2.075-5	8.570-1	8.772-1	4.863-1	2.480-4	1.215-2	3.181-2	3.920-0	7.316-3	1.273-2
2.277-5	3.895-1	3.897-1	1.070-2	2.634-4	1.216-3	5.852-3	3.920-0	1.088-2	1.064-2
2.417-5	1.226-1	1.228-1	3.400-1	2.283-4	2.512-3	8.651-3	3.920-0	8.334-3	4.939-1
2.561-5	4.087-1	4.089-1	1.020-2	2.765-4	1.715-3	6.224-3	3.920-0	5.915-2	1.184-2
2.710-5	1.669-1	1.670-1	2.457-2	2.739-4	6.815-3	1.542-2	3.920-0	1.689-3	1.204-2
2.862-5	9.436-1	9.450-1	4.417-1	2.457-4	5.004-3	1.450-3	3.920-0	1.466-2	6.381-1
2.940-5	3.917-1	3.913-1	1.064-2	2.196-4	1.700-3	6.746-3	3.920-0	6.273-2	1.229-2
3.099-5	3.646-1	3.648-1	1.143-2	2.404-4	7.244-3	5.793-3	3.920-0	6.937-2	9.909-1
3.345-5	7.395-1	7.403-1	5.635-1	2.163-4	1.533-3	2.319-3	3.920-0	2.263-2	8.044-1
3.601-5	1.639-1	1.640-1	2.542-2	3.616-4	9.748-3	1.246-2	3.920-0	1.700-3	9.660-1
3.866-5	2.436-1	2.437-1	1.711-2	2.229-4	5.234-3	9.150-3	3.920-0	1.106-3	1.048-2
4.048-5	5.504-1	5.520-1	4.385-1	2.715-4	5.910-3	1.080-3	3.920-0	1.262-2	4.820-1
4.234-5	7.820-1	7.829-1	5.330-1	2.372-4	1.381-3	1.576-3	3.920-0	2.324-2	5.855-1
4.329-5	4.854-1	4.857-1	8.587-1	2.833-4	2.080-3	4.025-3	3.920-0	4.672-2	9.167-1
4.619-5	8.068-1	8.078-1	5.166-1	2.331-4	5.353-3	2.299-3	3.920-0	2.099-2	8.621-1
4.717-5	3.034-1	3.035-1	1.374-2	2.962-4	7.031-3	3.743-3	3.920-0	8.792-2	5.575-1
4.918-5	8.729-1	8.740-1	4.775-1	2.271-4	5.793-3	1.925-3	3.920-0	1.872-2	7.826-1
5.123-5	2.164-1	2.165-1	1.926-2	3.069-4	3.439-3	1.275-2	3.920-0	1.205-3	1.284-2
5.332-5	2.870-1	2.871-1	1.452-2	2.740-4	2.350-3	9.435-3	3.920-0	8.749-2	1.259-2
5.654-5	2.916-1	2.918-1	1.429-2	2.780-4	1.536-3	9.976-3	3.920-0	8.423-2	1.348-2
5.763-5	3.118-1	3.120-1	1.337-2	2.074-4	1.533-3	8.76-3	3.920-0	7.558-2	1.267-2
6.097-5	1.092-1	1.095-1	3.815-1	2.843-4	3.167-3	6.551-3	3.920-0	7.414-3	3.355-1
6.325-5	5.011-1	5.018-1	7.172-1	2.859-4	1.438-3	2.875-3	3.920-0	3.296-2	7.836-1
6.557-5	2.454-1	2.455-1	1.698-2	2.683-4	4.700-3	9.399-3	3.920-0	1.077-3	3.064-2
6.674-5	1.030-1	1.032-1	4.048-1	2.915-4	3.778-3	7.556-3	3.920-0	8.661-1	3.649-1
7.034-5	1.207-1	1.209-1	3.454-1	2.892-4	1.875-3	3.749-3	3.920-0	4.297-2	1.212-2
7.155-5	9.298-1	9.313-1	4.483-1	2.748-4	5.783-3	1.157-3	3.920-0	3.262-2	5.044-1
7.527-5	6.078-1	6.084-1	6.957-1	2.657-4	1.431-3	2.861-3	3.920-0	1.380-2	8.157-1
7.780-5	7.612-1	7.622-1	5.475-1	2.454-4	1.007-3	2.014-3	3.920-0	2.309-2	7.191-1
7.908-5	4.439-1	4.542-1	9.183-1	2.341-4	1.220-3	4.561-3	3.920-0	5.228-2	9.399-1
8.167-5	9.240-1	9.249-1	5.058-1	2.188-4	9.568-3	1.914-3	3.920-0	2.197-2	7.394-1
8.431-5	4.338-1	4.340-1	9.609-1	1.934-4	2.538-3	5.077-3	3.920-0	5.819-2	0.932-2
8.834-5	8.925-1	8.934-1	4.670-1	1.806-4	9.547-3	1.969-3	3.920-0	2.188-2	7.992-1

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ENDL 175 Group Neutron Constants

98-Cf-249

ATOMIC WEIGHT 2.4908 ± 2		DENSITY 9.9235 ± 0 GRAMS/CC									
ENERGY	MFP (CM)	CROSS SECTION (BARNS)									
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD	TOTAL	LOCAL
9.10E-5	1.259	1.269	3.288	1.771	5.057	0.011	3.920	0	1.159	6.013	5.680
9.38E-5	7.298	7.304	5.711	1.768	1.314	2.628	3.920	0	3.013	8.996	8.459
9.66E-5	9.937	9.941	7.021	1.766	1.751	3.503	3.920	0	4.015	9.753	9.213
9.91E-5	7.231	7.240	5.762	1.764	1.333	2.665	3.920	0	3.055	9.042	8.542
1.02E-4	9.138	9.147	4.561	1.750	9.343	1.659	3.920	0	2.142	8.001	7.559
1.05E-4	9.556	9.560	6.938	1.752	1.749	3.496	3.920	0	4.009	9.770	9.229
1.17E-4	3.177	3.178	1.312	1.744	3.792	1.564	3.920	0	8.692	1.130	2.067
1.25E-4	6.842	6.847	1.092	1.737	1.452	2.903	3.920	0	3.328	5.316	8.600
1.33E-4	1.008	1.009	4.134	1.730	8.011	1.602	3.920	0	1.836	7.576	7.157
1.40E-4	4.403	4.405	9.466	1.723	2.581	5.762	3.920	0	5.917	1.066	2.007
1.51E-4	9.126	9.134	4.565	1.717	9.501	1.900	3.920	0	2.178	8.132	7.582
1.50E-4	7.929	7.935	5.254	1.714	1.181	2.362	3.920	0	2.707	8.782	8.297
1.69E-4	1.036	1.037	4.022	1.711	7.706	5.511	3.920	0	1.766	7.489	7.075
1.78E-4	5.647	5.651	7.128	1.707	1.807	3.614	3.920	0	4.122	9.911	9.363
1.88E-4	8.900	8.909	4.683	1.703	9.933	1.987	3.920	0	2.277	8.292	7.633
1.98E-4	8.144	8.151	5.116	1.700	1.139	2.279	3.920	0	2.612	8.704	8.223
2.09E-4	6.174	6.178	6.750	1.686	1.688	3.377	3.920	0	3.970	9.777	9.237
2.24E-4	9.739	9.747	4.763	1.681	1.035	2.072	3.920	0	2.375	8.485	8.016
2.36E-4	8.567	8.575	4.855	1.644	1.073	2.177	3.920	0	2.461	8.627	8.149
3.01E-4	9.433	9.442	4.419	1.627	9.305	1.661	3.920	0	2.133	8.233	7.777
4.79E-4	1.020	1.021	4.097	1.615	8.240	1.648	3.920	0	1.889	7.803	7.447
4.99E-4	1.100	1.101	3.789	1.605	7.281	1.456	3.920	0	1.669	7.513	7.097
5.65E-4	9.973	9.983	4.179	1.593	8.619	1.724	3.920	0	1.976	8.063	7.617
6.04E-4	1.344	1.346	3.101	1.588	5.044	1.059	3.920	0	1.156	6.352	6.007
6.36E-4	1.123	1.124	3.712	1.582	7.097	2.419	3.920	0	1.627	7.746	7.207
7.15E-4	1.160	1.161	3.594	1.572	6.740	1.349	3.920	0	1.545	7.331	6.926
8.32E-4	1.298	1.300	3.210	1.562	5.495	1.099	3.920	0	1.604	6.651	6.321
9.17E-4	1.295	1.297	3.217	1.551	4.491	1.216	3.920	0	1.256	7.357	6.991
1.058E-3	1.372	1.374	3.079	1.538	3.141	1.186	3.920	0	1.116	7.572	7.209
1.307E-3	1.656	1.659	2.517	1.522	2.085	0.764	3.920	0	1.403	8.059	7.770
1.561E-3	1.736	1.739	2.400	1.506	1.754	0.718	3.920	0	5.631	1.500	5.327
1.892E-3	1.691	1.693	2.455	1.495	1.691	0.816	3.920	0	7.157	6.294	6.005
2.208E-3	1.694	1.697	2.461	1.482	1.822	0.169	3.921	0	7.215	6.423	6.130
2.561E-3	1.790	1.793	2.328	1.469	1.500	7.095	3.921	0	6.346	5.899	5.628
2.940E-3	1.857	1.871	2.232	1.457	1.343	6.404	3.921	0	5.719	5.554	5.299
3.345E-3	1.925	1.929	2.165	1.445	1.171	6.022	3.921	0	5.301	5.381	5.136
3.777E-3	1.993	1.997	2.102	1.433	1.016	5.610	3.921	0	4.916	5.221	4.987
4.234E-3	2.076	2.080	2.007	1.418	9.097	5.040	3.921	0	4.372	4.894	4.636
5.763E-3	2.211	2.216	1.895	1.388	8.197	4.116	3.931	0	3.699	4.255	4.062
7.527E-3	2.539	2.544	1.641	1.189	7.528	3.774	3.932	0	3.337	4.449	4.246
1.025E-2	2.851	2.857	1.462	1.047	6.581	3.487	3.933	0	3.051	4.614	4.405
1.511E-2	2.935	2.951	1.420	1.042	5.639	3.216	3.934	0	2.778	4.380	4.184
2.091E-2	3.124	3.104	1.384	1.036	4.973	2.975	3.935	0	2.547	4.156	3.971
2.646E-2	3.075	3.115	1.356	1.030	4.617	2.750	3.936	0	2.358	3.977	3.800
3.267E-2	3.111	3.196	1.327	1.024	4.356	2.594	3.936	0	2.223	3.778	3.610
3.952E-2	3.184	3.255	1.309	1.017	4.057	2.516	3.939	0	1.794	3.142	3.549
4.704E-2	3.227	3.314	1.292	1.008	3.488	2.487	3.934	0	4.729	3.272	3.717
5.761E-2	3.278	3.399	1.271	9.962	2.691	2.451	3.934	0	1.214	2.199	3.719
7.002E-2	3.332	3.497	1.251	9.834	2.463	2.410	3.936	0	2.040	2.192	3.714
8.522E-2	3.389	3.605	1.230	9.689	2.159	2.364	3.939	0	2.877	1.869	3.705
9.891E-2	3.520	3.802	1.184	9.319	1.872	2.269	3.944	0	4.503	1.790	3.724
1.307E-1	3.817	4.254	1.092	8.530	1.603	2.156	3.953	0	7.182	1.674	3.804
1.820E-1	4.129	4.772	1.012	7.815	1.440	2.035	3.961	0	9.912	2.574	3.883
2.075E-1	4.226	4.345	9.864	7.585	1.348	1.966	3.968	0	1.727	1.518	3.837
2.417E-1	4.278	5.101	9.743	7.446	1.283	1.900	3.975	0	2.690	1.464	3.754
2.710E-1	4.321	5.222	9.646	7.324	1.249	1.855	3.980	0	3.475	1.423	3.683
2.940E-1	4.364	5.305	9.573	7.186	1.215	1.779	3.987	0	4.870	1.256	3.578
3.345E-1	4.367	5.395	9.543	6.998	1.174	1.692	3.995	0	7.365	1.165	3.414
3.777E-1	4.370	5.482	9.521	6.801	1.147	1.608	4.005	0	9.671	1.603	3.254
4.254E-1	4.366	5.498	9.546	6.529	1.152	1.566	4.019	0	1.335	1.726	3.152
5.123E-1	4.473	5.703	9.319	6.112	1.209	1.514	4.042	0	1.572	1.734	3.132
6.325E-1	4.669	6.088	8.926	5.653	1.269	1.454	4.067	0	1.633	1.712	3.103

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ENDL 175 Group Neutron Constants

98-Cf-249

ATOMIC WEIGHT 2.4908 ± 2				DENSITY 9.9235 ± 0 GRAMS/CC								
ENERGY MEV	MFP (CM)		CROSS SECTION (BARN)								ENERGY DEPOSIT(MEV)	
	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
0.02	4.663+0	6.508+0	8.525+0	5.200+0	1.315+0	1.398+0	4.054+0	1.796+0	1.689+0	3.166+0	3.022+0	
0.05	5.149+0	7.317+0	8.096+0	4.774+0	1.317+0	1.363+0	4.123+0	1.826+0	1.666+0	3.254+0	3.103+0	
0.10	5.537+0	8.226+0	7.766+0	4.339+0	1.214+0	1.400+0	4.154+0	1.850+0	1.698+0	3.484+0	3.321+0	
0.15	5.854+0	8.358+0	7.520+0	4.061+0	1.037+0	1.479+0	4.188+0	1.876+0	1.763+0	3.798+0	3.620+0	
0.20	6.166+0	8.417+0	7.331+0	3.790+0	8.639+0	1.562+0	4.223+0	1.892+0	1.832+0	4.114+0	3.922+0	
0.25	6.479+0	8.498+0	7.193+0	3.602+0	7.319+0	1.651+0	4.261+0	1.866+0	1.896+0	4.434+0	4.223+0	
0.30	6.791+0	8.581+0	7.136+0	3.495+0	6.107+0	1.745+0	4.301+0	1.835+0	1.956+0	4.718+0	4.497+0	
0.35	7.104+0	8.653+0	7.091+0	3.405+0	5.160+0	1.835+0	4.343+0	1.799+0	2.024+0	4.992+0	4.758+0	
0.40	7.417+0	8.707+0	7.029+0	3.381+0	4.234+0	1.860+0	4.389+0	1.741+0	2.008+0	5.102+0	4.661+0	
0.45	7.730+0	8.791+0	7.003+0	3.413+0	3.649+0	1.871+0	4.447+0	1.675+0	1.990+0	5.152+0	4.907+0	
0.50	8.043+0	8.869+0	7.019+0	3.481+0	3.129+0	1.862+0	4.481+0	1.609+0	1.972+0	5.179+0	4.931+0	
0.55	8.356+0	8.941+0	7.019+0	3.561+0	2.698+0	1.894+0	4.532+0	1.537+0	1.953+0	5.200+0	4.949+0	
0.60	8.669+0	9.013+0	7.041+0	3.665+0	2.226+0	1.900+0	4.588+0	1.493+0	1.934+0	5.171+0	4.919+0	
0.65	8.982+0	9.085+0	7.152+0	3.763+0	1.900+0	1.900+0	4.643+0	1.480+0	1.918+0	5.113+0	4.860+0	
0.70	9.295+0	9.157+0	7.265+0	3.863+0	1.596+0	1.900+0	4.701+0	1.466+0	1.901+0	5.055+0	4.801+0	
0.75	9.608+0	9.230+0	7.378+0	3.963+0	1.391+0	1.922+0	4.756+0	1.454+0	1.885+0	5.006+0	4.751+0	
0.80	9.921+0	9.302+0	7.491+0	4.063+0	1.216+0	1.899+0	4.820+0	1.473+0	1.867+0	4.896+0	4.690+0	
0.85	10.234+0	9.375+0	7.604+0	4.163+0	1.060+0	1.927+0	4.886+0	1.505+0	1.847+0	4.771+0	4.514+0	
0.90	10.547+0	9.448+0	7.717+0	4.263+0	9.147+0	1.787+0	4.951+0	1.535+0	1.829+0	4.662+0	4.403+0	
0.95	10.860+0	9.521+0	7.830+0	4.363+0	7.937+0	1.744+0	5.020+0	1.567+0	1.843+0	4.575+0	4.312+0	
1.00	11.173+0	9.594+0	7.943+0	4.463+0	7.036+0	1.705+0	5.092+0	1.596+0	1.889+0	4.511+0	4.244+0	
1.05	11.486+0	9.667+0	8.056+0	4.563+0	6.107+0	1.701+0	5.169+0	1.617+0	1.937+0	4.512+0	4.249+0	
1.10	11.799+0	9.740+0	8.169+0	4.663+0	5.273+0	1.823+0	5.250+0	1.507+0	1.986+0	4.842+0	4.595+0	
1.15	12.112+0	9.813+0	8.282+0	4.763+0	4.447+0	2.015+0	5.329+0	1.287+0	2.034+0	5.411+0	5.151+0	
1.20	12.425+0	9.886+0	8.395+0	4.863+0	3.693+0	2.167+0	5.410+0	1.173+0	2.084+0	5.894+0	5.625+0	
1.25	12.738+0	9.959+0	8.508+0	4.963+0	2.893+0	2.200+0	5.510+0	1.100+0	2.090+0	6.086+0	5.812+0	
1.30	13.051+0	10.032+0	8.621+0	5.063+0	2.147+0	2.260+0	5.550+0	1.100+0	2.083+0	6.184+0	5.908+0	
1.35	13.364+0	10.105+0	8.734+0	5.163+0	1.341+0	2.200+0	5.683+0	1.094+0	2.077+0	6.295+0	6.015+0	
1.40	13.677+0	10.178+0	8.847+0	5.263+0	1.201+0	2.280+0	5.792+0	1.072+0	2.069+0	6.434+0	6.147+0	
1.45	13.990+0	10.251+0	8.960+0	5.363+0	1.060+0	2.200+0	5.899+0	1.057+0	2.059+0	6.568+0	6.263+0	
1.50	14.303+0	10.324+0	9.073+0	5.463+0	9.212+0	2.232+0	5.978+0	1.092+0	2.025+0	6.546+0	6.247+0	
1.55	14.616+0	10.397+0	9.186+0	5.563+0	8.282+0	2.205+0	6.085+0	1.139+0	1.983+0	6.502+0	6.193+0	
1.60	14.929+0	10.470+0	9.299+0	5.663+0	7.353+0	2.038+0	6.190+0	1.185+0	1.943+0	6.441+0	6.124+0	
1.65	15.242+0	10.543+0	9.412+0	5.763+0	6.424+0	1.760+0	6.291+0	1.230+0	1.904+0	6.354+0	6.030+0	
1.70	15.555+0	10.616+0	9.525+0	5.863+0	5.495+0	1.616+0	6.392+0	1.277+0	1.765+0	6.255+0	5.922+0	
1.75	15.868+0	10.689+0	9.638+0	5.963+0	4.566+0	1.469+0	6.502+0	1.173+0	1.995+0	6.689+0	6.338+0	
1.80	16.181+0	10.762+0	9.751+0	6.063+0	3.637+0	1.351+0	6.597+0	1.270+0	2.063+0	7.453+0	7.108+0	
1.85	16.494+0	10.835+0	9.864+0	6.163+0	2.708+0	1.243+0	6.700+0	1.200+0	2.139+0	7.802+0	7.460+0	
1.90	16.807+0	10.908+0	9.977+0	6.263+0	1.779+0	1.139+0	6.829+0	1.000+0	2.171+0	7.791+0	7.444+0	
1.95	17.120+0	10.981+0	10.090+0	6.363+0	1.280+0	1.059+0	6.913+0	8.000+0	2.173+0	7.767+0	7.418+0	
2.00	17.433+0	11.054+0	10.203+0	6.463+0	1.289+0	1.004+0	6.975+0	8.000+0	2.174+0	7.748+0	7.397+0	
2.05	17.746+0	11.127+0	10.316+0	6.563+0	1.298+0	9.775+0	7.032+0	8.000+0	2.174+0	7.730+0	7.376+0	
2.10	18.059+0	11.200+0	10.429+0	6.663+0	1.307+0	9.546+0	7.089+0	8.000+0	2.174+0	7.706+0	7.351+0	
2.15	18.372+0	11.273+0	10.542+0	6.763+0	1.316+0	9.317+0	7.171+0	8.000+0	2.172+0	7.669+0	7.312+0	
2.20	18.685+0	11.346+0	10.655+0	6.863+0	1.325+0	9.088+0	7.284+0	8.000+0	2.160+0	7.581+0	7.222+0	
2.25	18.998+0	11.419+0	10.768+0	6.963+0	1.334+0	8.859+0	7.404+0	8.000+0	2.144+0	7.471+0	7.110+0	
2.30	19.311+0	11.492+0	10.881+0	7.063+0	1.343+0	8.630+0	7.527+0	8.000+0	2.127+0	7.363+0	7.001+0	
2.35	19.624+0	11.565+0	10.994+0	7.163+0	1.352+0	8.401+0	7.652+0	7.998+0	2.111+0	7.256+0	6.893+0	
2.40	19.937+0	11.638+0	11.107+0	7.263+0	1.361+0	8.172+0	7.779+0	7.915+0	2.127+0	7.556+0	7.184+0	
2.45	20.250+0	11.711+0	11.220+0	7.363+0	1.370+0	7.943+0	7.937+0	7.811+0	2.173+0	7.893+0	7.507+0	
2.50	20.563+0	11.784+0	11.333+0	7.463+0	1.379+0	7.714+0	8.161+0	7.600+0	2.241+0	7.896+0	7.530+0	
2.55	20.876+0	11.857+0	11.446+0	7.563+0	1.388+0	7.485+0	8.382+0	7.387+0	2.309+0	7.899+0	7.553+0	
2.60	21.189+0	11.930+0	11.559+0	7.663+0	1.397+0	7.256+0	8.603+0	7.174+0	2.377+0	7.902+0	7.576+0	
2.65	21.502+0	12.003+0	11.672+0	7.763+0	1.406+0	7.027+0	8.824+0	6.961+0	2.445+0	7.905+0	7.599+0	
2.70	21.815+0	12.076+0	11.785+0	7.863+0	1.415+0	6.798+0	9.045+0	6.748+0	2.513+0	7.908+0	7.622+0	
2.75	22.128+0	12.149+0	11.898+0	7.963+0	1.424+0	6.569+0	9.266+0	6.535+0	2.581+0	7.911+0	7.645+0	
 		

04/12/76

ENDL 175 Group Neutron Constants

98-Cf-250

Barns

04/12/76

ENDL 175 Group Neutron Constants

98-Cf-250

ATOMIC WEIGHT 2.5001+2				DENSITY 9.9606+0 GRAMS/CC									
ENERGY MEV	MFP (CM)	TOTAL TRANSPORT		CROSS SECTION (BARRS)						ENERGY DEPOSITION (MEV)			
		TOTAL	ELASTIC	ABSORB	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	TOTAL	LOCAL		
1.307-9	7.066-3	7.066-3	5.898-3	1.154-1	5.887-3	1.000-1	3.630-0	3.964-4	5.103-3	3.141-3			
5.227-9	1.411-2	1.411-2	2.955-3	1.154-1	2.943-3	1.000-1	3.630-0	1.982-4	5.096-3	6.269-3			
2.091-8	3.181-2	2.191-2	1.903-3	1.154-1	1.691-3	1.000-1	3.630-0	1.273-4	5.089-3	9.736-3			
3.267-8	3.203-2	3.203-2	1.301-3	1.154-1	1.290-3	1.000-1	3.630-0	8.685-4	5.079-3	1.423-2			
4.704-8	5.112-2	5.112-2	8.153-2	1.154-1	8.037-2	1.000-1	3.630-0	5.413-3	5.061-3	2.272-2			
8.322-8	8.378-2	8.378-2	4.975-2	1.154-1	4.858-2	1.000-1	3.630-0	3.272-3	5.029-3	3.724-2			
1.307-7	1.239-1	1.240-1	3.363-2	1.154-1	3.246-2	1.000-1	3.630-0	2.187-3	4.990-3	5.509-2			
1.882-7	1.706-1	1.706-1	2.443-2	1.154-1	2.326-2	1.000-1	3.630-0	1.567-3	4.945-3	7.583-2			
2.561-7	2.235-1	2.235-1	1.865-2	1.154-1	1.749-2	1.000-1	3.630-0	1.178-3	4.894-3	9.931-2			
3.345-7	2.919-1	2.919-1	1.479-2	1.154-1	1.363-2	1.000-1	3.630-0	9.182-4	4.838-3	1.253-1			
4.254-7	4.633-2	4.637-2	8.996-2	2.816-2	6.179-2	1.000-1	3.630-0	4.161-3	3.531-3	2.059-2			
5.123-7	1.261-1	1.261-1	3.306-4	1.668-3	3.139-4	1.000-1	3.630-0	2.114-4	4.853-3	5.603-4			
7.527-7	9.282-3	9.284-3	4.490-3	2.552-2	4.235-3	1.000-1	3.630-0	2.852-4	4.824-3	4.126-3			
1.176-6	8.964-2	8.967-2	4.650-2	4.736-2	4.175-2	1.000-1	3.630-0	2.812-3	4.630-3	3.984-2			
1.511-6	1.491-1	1.491-1	2.796-2	2.972-2	2.498-2	1.000-1	3.630-0	1.683-3	4.634-3	6.626-2			
2.091-6	1.559-1	1.559-1	2.674-2	2.564-2	2.417-2	1.000-1	3.630-0	1.628-3	4.680-3	6.327-2			
2.741-6	1.630-1	1.630-1	2.558-2	2.349-2	2.322-2	1.000-1	3.630-0	1.564-3	4.714-3	7.242-2			
3.533-6	1.724-1	1.725-1	2.417-2	2.238-2	2.15-2	1.000-1	3.630-0	1.477-3	4.715-3	7.663-2			
4.704-6	1.837-1	1.837-1	2.269-2	2.153-2	2.053-2	1.000-1	3.630-0	1.383-3	4.708-3	8.163-2			
5.658-6	1.956-1	1.957-1	2.131-2	2.106-2	1.919-2	1.000-1	3.630-0	1.293-3	4.693-3	8.639-2			
6.737-6	2.138-1	2.139-1	1.949-2	2.044-2	1.744-2	1.000-1	3.630-0	1.175-3	4.670-3	9.502-2			
8.322-6	2.377-1	2.378-1	1.753-2	1.978-2	1.554-2	1.000-1	3.630-0	1.047-3	4.640-3	1.057-1			
9.650-6	2.655-1	2.655-1	1.575-2	1.917-2	1.317-2	1.000-1	3.630-0	8.282-4	4.630-3	1.180-1			
1.101-5	3.128-1	3.129-1	1.332-2	1.848-2	1.151-2	1.000-1	3.630-0	7.755-4	4.558-3	1.390-1			
1.307-5	3.289-1	3.290-1	1.267-2	1.551-2	1.111-2	1.000-1	3.630-0	7.919-4	4.633-3	1.462-1			
1.468-5	2.789-1	2.790-1	1.494-2	2.599-2	1.234-2	1.000-1	3.630-0	8.313-4	4.234-3	1.240-2			
1.581-5	3.719-1	3.722-1	1.121-2	2.674-2	8.522-2	1.000-1	3.630-0	5.746-4	4.058-3	1.853-1			
1.758-5	3.842-1	3.845-1	1.085-2	2.326-2	8.511-2	1.000-1	3.630-0	5.738-4	4.187-3	1.708-1			
1.882-5	3.866-1	3.868-1	1.073-2	2.215-2	8.500-2	1.000-1	3.630-0	5.731-4	4.230-3	1.727-1			
2.075-5	3.925-1	3.927-1	1.062-2	2.124-2	8.486-2	1.000-1	3.630-0	5.722-4	4.265-3	1.744-1			
2.277-5	3.959-1	3.951-1	1.053-2	2.045-2	8.474-2	1.000-1	3.630-0	5.713-4	4.296-3	1.759-1			
2.417-5	3.989-1	3.991-1	1.045-2	1.974-2	8.464-2	1.000-1	3.630-0	5.707-4	4.324-3	1.773-1			
2.561-5	4.040-1	4.042-1	1.032-2	1.853-2	8.454-2	1.000-1	3.630-0	5.700-4	4.374-3	1.796-1			
2.710-5	4.138-1	4.140-1	1.007-2	1.543-2	8.519-2	1.000-1	3.630-0	5.744-4	4.513-3	1.839-1			
2.862-5	2.809-2	2.810-2	1.484-3	3.095-2	2.174-3	1.000-1	3.630-0	7.399-4	4.057-3	1.248-2			
2.940-5	3.205-1	3.209-1	1.300-2	4.627-2	1.863-2	1.000-1	3.630-0	5.638-4	3.435-3	1.425-1			
3.099-5	5.022-1	5.026-1	8.299-1	2.427-2	5.862-2	1.000-1	3.630-0	3.954-4	3.842-3	2.32-1			
3.345-5	5.177-1	5.180-1	8.051-1	2.234-2	5.808-2	1.000-1	3.630-0	3.918-4	3.925-3	2.301-1			
3.601-5	5.234-1	5.298-1	7.872-1	2.110-2	5.752-2	1.000-1	3.630-0	3.881-4	3.979-3	2.353-1			
3.866-5	5.411-1	5.415-1	7.703-1	1.989-2	5.704-2	1.000-1	3.630-0	3.848-4	4.034-3	2.405-1			
4.048-5	5.601-1	5.605-1	7.441-1	1.767-2	5.655-2	1.000-1	3.630-0	3.822-4	4.149-3	2.489-1			
4.234-5	5.381-1	5.382-1	1.233-2	2.325-2	9.994-2	1.000-1	3.630-0	6.737-4	4.298-3	1.503-1			
4.329-5	1.063-1	1.063-1	3.923-2	2.106-2	2.816-2	1.000-1	3.630-0	1.897-3	3.717-3	4.722-2			
4.619-5	5.909-1	5.914-1	7.054-1	2.451-2	4.592-2	1.000-1	3.630-0	3.100-4	3.600-3	2.626-1			
4.777-5	6.037-1	6.042-1	6.904-1	2.322-2	4.572-2	1.000-1	3.630-0	3.086-4	3.663-3	2.683-1			
4.916-5	6.164-1	6.170-1	6.762-1	2.207-2	4.545-2	1.000-1	3.630-0	3.068-4	3.720-3	2.740-1			
5.123-5	6.300-1	6.305-1	6.616-1	2.089-2	4.517-2	1.000-1	3.630-0	3.049-4	3.780-3	2.800-1			
5.332-5	6.530-1	6.535-1	6.363-1	1.892-2	4.491-2	1.000-1	3.630-0	3.025-4	3.850-3	2.902-1			
5.654-5	1.513-1	1.514-1	2.754-2	6.667-2	2.086-2	1.000-1	3.630-0	1.406-3	3.914-3	6.727-2			
5.763-5	1.673-1	1.674-1	2.492-2	8.570-2	1.634-2	1.000-1	3.630-0	1.101-3	3.428-3	7.434-2			
6.097-5	4.855-1	4.862-1	8.585-1	4.558-2	4.017-2	1.000-1	3.630-0	2.712-4	2.616-3	2.158-1			
6.325-5	4.928-1	4.915-1	8.493-1	4.523-2	3.960-2	1.000-1	3.630-0	2.674-4	2.610-3	2.181-1			
6.557-5	4.987-1	4.974-1	8.391-1	4.464-2	3.914-2	1.000-1	3.630-0	2.645-4	2.615-3	2.208-1			
6.674-5	5.051-1	5.058-1	8.252-1	4.395-2	3.891-2	1.000-1	3.630-0	2.605-4	2.622-3	2.245-1			
6.813-5	5.138-1	5.145-1	8.113-1	4.305-2	3.788-2	1.000-1	3.630-0	2.565-4	2.630-3	2.283-1			
7.155-5	5.230-1	5.238-1	7.969-1	4.223-2	3.736-2	1.000-1	3.630-0	2.523-4	2.638-3	2.324-1			
7.527-5	5.352-1	5.350-1	7.787-1	4.119-2	3.659-2	1.000-1	3.630-0	2.471-4	2.648-3	2.379-1			
7.780-5	5.429-1	5.437-1	7.677-1	4.055-2	3.611-2	1.000-1	3.630-0	2.439-4	2.655-3	2.413-1			
7.908-5	5.507-1	5.515-1	7.568-1	3.991-2	3.567-2	1.000-1	3.630-0	2.409-4	2.663-3	2.448-1			
8.167-5	5.612-1	5.620-1	7.427-1	3.904-2	3.513-2	1.000-1	3.630-0	2.373-4	2.677-3	2.494-1			
8.431-5	5.682-1	5.689-1	7.293-1	3.793-2	3.444-2	1.000-1	3.630-0	2.326-4	2.695-3	2.556-1			
8.834-5	5.901-1	5.909-1	7.054-1	3.680-2	3.374-2	1.000-1	3.630-0	2.279-4	2.714-3	2.622-1			

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98-Cf-250

04/12/76

ENDL 175 Group Neutron Constants

98-Cf-250

ATOMIC WEIGHT 2.5001 * 2			DENSITY 9.96 6+ 0 GRAMS/CC									
ENERGY	MFP (CM)		CROSS SECTION (BARNS)									
	MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAH-PROD.	ENERGY DEPOSIT (MEV)	LOCAL
9.108	5	6.026	1.6034	6.9174	3.588	3.319	1.000	3.630	0	2.242	2.731	2.678
9.386	5	6.150	1.6159	7.777	3.495	3.272	1.000	3.630	0	2.211	2.752	2.735
9.668	5	6.247	1.6256	8.672	3.424	3.238	1.000	3.630	0	2.187	2.769	2.777
9.811	5	6.384	1.6393	9.529	3.328	3.191	1.000	3.630	0	2.156	2.793	2.837
1.025	4	6.662	1.6591	10.237	3.131	3.086	1.000	3.630	0	2.092	2.846	2.970
1.099	4	7.066	1.7096	10.882	2.879	2.993	1.000	3.630	0	2.023	2.928	3.149
1.176	4	7.547	1.7557	11.523	2.618	2.895	1.000	3.630	0	1.957	3.028	3.354
1.256	4	8.062	1.8092	12.157	2.348	2.799	1.000	3.630	0	1.892	3.147	3.592
1.338	4	8.624	1.8634	12.833	2.084	2.725	1.000	3.630	0	1.842	3.280	3.833
1.406	4	9.320	1.9330	13.472	1.820	2.642	1.000	3.630	0	1.786	3.450	4.142
1.511	4	9.732	1.9743	14.283	1.717	2.555	1.000	3.630	0	1.728	3.499	4.325
1.601	4	9.899	1.9910	14.211	1.714	2.466	1.000	3.630	0	1.682	3.476	4.399
1.694	4	1.008	1.009	14.36	1.711	2.416	1.000	3.630	0	1.634	3.451	4.478
1.789	4	1.025	1.026	14.287	1.707	2.350	1.000	3.630	0	1.589	3.427	4.558
1.887	4	1.041	1.042	14.255	1.703	2.292	1.000	3.630	0	1.550	3.405	4.625
1.988	4	1.057	1.059	13.942	1.700	2.232	1.000	3.630	0	1.510	3.383	4.700
2.091	4	1.112	1.113	13.750	1.685	2.054	1.000	3.630	0	1.390	3.314	4.940
2.741	4	1.186	1.188	13.513	1.654	1.839	1.000	3.630	0	1.246	3.224	5.273
3.777	4	1.245	1.247	13.248	1.644	1.692	1.000	3.630	0	1.147	3.161	5.533
3.811	4	1.310	1.312	13.182	1.627	1.545	1.000	3.630	0	1.047	3.087	5.822
4.704	4	1.356	1.358	13.059	1.615	1.445	1.000	3.630	0	9.800	3.033	6.035
4.991	4	1.460	1.462	12.855	1.605	1.240	1.000	3.630	0	8.423	2.895	6.489
5.658	4	1.600	1.603	12.634	1.593	1.001	1.000	3.630	0	6.811	2.704	7.113
6.042	4	1.684	1.687	12.754	1.589	8.766	1.000	3.630	0	5.974	2.589	7.486
6.367	4	1.798	1.801	12.318	1.582	7.255	1.000	3.630	0	4.957	2.431	7.992
7.155	4	1.966	1.970	12.120	1.574	5.375	1.000	3.630	0	3.691	2.205	8.739
8.322	4	2.107	2.111	11.979	1.562	4.066	1.000	3.630	0	2.809	2.024	9.263
9.177	4	2.228	2.226	11.874	1.551	3.152	1.000	3.630	0	2.191	1.869	9.874
1.056	3	2.310	2.315	11.834	1.538	2.562	0.070	3.630	0	1.796	1.794	1.027
1.307	3	2.412	2.418	11.788	1.522	1.961	0.100	3.630	0	1.392	1.695	1.072
1.581	3	2.464	2.469	11.692	1.506	1.754	1.000	3.630	0	1.252	1.669	1.095
1.882	3	2.450	2.456	11.574	1.495	1.691	1.000	3.630	0	1.210	1.668	1.107
2.208	3	2.520	2.526	11.654	1.488	1.622	1.000	3.630	0	1.164	1.667	1.120
2.561	3	2.599	2.565	11.629	1.469	1.500	1.000	3.630	0	1.081	1.654	1.137
2.940	3	2.603	2.609	11.621	1.457	1.343	1.000	3.630	0	9.786	1.632	1.157
3.345	3	2.650	2.657	11.573	1.445	1.176	1.000	3.630	0	8.630	1.608	1.178
3.777	3	2.699	2.706	11.544	1.433	1.016	1.000	3.630	0	7.554	1.585	1.200
4.234	3	2.754	2.761	11.513	1.412	9.097	1.000	3.630	0	6.839	1.581	1.224
5.763	3	2.816	2.823	11.480	1.388	8.197	1.000	3.630	0	6.234	1.586	1.252
7.527	3	3.271	3.280	11.274	1.189	7.528	1.000	3.630	0	5.785	1.815	1.454
1.025	2	3.711	3.721	11.233	1.047	6.581	1.000	3.630	0	5.148	2.016	1.849
1.511	2	3.760	3.765	11.08	1.047	5.639	1.000	3.630	0	4.515	2.000	1.671
2.091	2	3.803	3.818	11.06	1.036	4.973	1.000	3.630	0	4.068	1.992	1.690
2.646	2	3.834	3.896	11.074	1.030	4.617	1.057	3.630	0	3.871	2.093	1.802
3.267	2	3.874	3.929	11.094	1.024	4.356	1.610	3.630	0	4.089	3.071	2.752
3.953	2	3.857	3.961	11.081	1.017	4.057	2.329	3.640	0	2.648	4.347	3.992
4.704	2	3.875	4.002	11.076	1.009	3.488	3.233	3.640	0	6.980	4.650	5.568
5.761	2	3.893	4.064	11.071	9.952	2.891	4.382	3.644	0	1.792	5.072	7.580
7.002	2	3.904	4.132	11.068	9.834	2.463	5.662	3.647	0	3.011	5.693	1.034
8.322	2	3.910	4.190	11.065	9.699	2.159	7.106	3.652	0	4.387	6.515	1.235
9.891	2	3.979	4.342	11.048	9.319	1.872	9.035	3.655	0	6.647	7.693	1.671
1.307	1	4.151	4.673	11.044	8.530	1.603	1.194	3.665	0	1.563	9.578	2.300
1.620	1	4.124	4.594	11.040	7.816	1.440	1.457	3.682	1	1.331	11.677	2.757
2.075	1	4.249	4.981	11.029	6.829	1.348	1.537	3.679	0	5.755	11.184	3.027
2.417	1	4.211	5.006	11.027	7.446	1.283	1.565	3.686	0	7.380	1.214	3.092
2.710	1	4.175	5.017	11.022	7.329	1.249	1.624	3.692	0	8.950	1.240	3.144
2.940	1	4.163	5.024	11.021	7.186	1.216	1.671	3.699	0	1.034	1.626	3.223
3.445	1	4.172	5.101	11.019	6.998	1.174	1.734	3.708	0	1.140	1.753	3.352
3.777	1	4.184	5.182	11.017	6.801	1.147	1.795	3.718	0	1.251	1.824	3.479
4.234	1	4.212	5.255	11.016	6.528	1.152	1.834	3.723	0	1.418	1.931	3.578
5.123	1	4.320	5.457	11.010	6.112	1.209	1.886	3.756	0	5.529	2.009	3.775
6.365	1	4.480	5.770	11.003	5.653	1.269	1.946	3.782	0	1.577	2.052	4.040

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98-Cf-250

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ENDL 175 Group Neutron Constants

98-Cf-250

ATOMIC WEIGHT P 5001+2					DENSITY 9.960E+0 GRAMS/CC						
ENERGY	HFP (CH)		CROSS SECTION (BARN)							ENERGY DEPOSIT(MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSRP	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
7.527+0	4.653+0	6.095+0	8.958+0	5.200+0	1.315+0	2.000+0	3.810+0	1.627+0	2.096+0	4.311+0	4.127+0
8.834+0	4.841+0	6.716+0	8.609+0	4.770+0	1.317+0	2.022+0	3.804+0	1.681+0	2.144+0	4.537+0	4.391+0
1.025+0	5.047+0	7.508+0	8.299+0	4.394+0	1.214+0	2.043+0	3.872+0	1.700+0	2.170+0	4.778+0	4.570+0
1.176+0	5.256+0	7.716+0	7.930+0	4.014+0	1.037+0	2.065+0	3.907+0	1.700+0	2.185+0	5.030+0	4.810+0
1.338+0	5.437+0	7.894+0	7.666+0	3.790+0	6.639+0	2.089+0	3.934+0	1.700+0	2.201+0	5.262+0	5.031+0
1.511+0	5.591+0	8.075+0	7.455+0	3.602+0	7.319+0	2.100+0	3.982+0	1.680+0	2.200+0	5.438+0	5.199+0
1.694+0	5.689+0	8.261+0	7.298+0	3.495+0	6.107+0	2.100+0	4.024+0	1.642+0	2.184+0	5.555+0	5.308+0
1.887+0	5.824+0	8.444+0	7.158+0	3.405+0	5.160+0	2.100+0	4.068+0	1.602+0	2.168+0	5.663+0	5.402+0
2.091+0	5.879+0	8.606+0	7.009+0	3.365+0	4.334+0	2.100+0	4.111+0	1.566+0	2.149+0	5.718+0	5.459+0
2.305+0	5.894+0	8.765+0	7.071+0	3.418+0	3.649+0	2.100+0	4.162+0	1.516+0	2.129+0	5.731+0	5.469+0
2.530+0	5.883+0	8.915+0	7.085+0	3.481+0	3.129+0	2.100+0	4.210+0	1.473+0	2.110+0	5.720+0	5.456+0
2.741+0	5.860+0	9.065+0	7.112+0	3.561+0	2.648+0	2.100+0	4.263+0	1.425+0	2.089+0	5.637+0	5.432+0
3.011+0	5.816+0	9.234+0	7.167+0	3.655+0	2.226+0	2.086+0	4.320+0	1.393+0	2.066+0	5.616+0	5.351+0
3.263+0	5.771+0	9.398+0	7.222+0	3.763+0	1.900+0	2.060+0	4.378+0	1.380+0	2.045+0	5.504+0	5.240+0
3.533+0	5.727+0	9.562+0	7.278+0	3.867+0	1.596+0	2.033+0	4.438+0	1.366+0	2.024+0	5.390+0	5.128+0
3.811+0	5.695+0	9.791+0	7.319+0	3.945+0	1.381+0	2.006+0	4.497+0	1.314+0	2.003+0	5.291+0	5.030+0
4.059+0	5.653+0	9.922+0	7.372+0	4.010+0	1.216+0	1.985+0	4.561+0	1.365+0	1.980+0	5.197+0	4.935+0
4.395+0	5.624+0	1.000+0	7.411+0	4.051+0	1.060+0	1.963+0	4.631+0	1.387+0	1.955+0	5.117+0	4.853+0
4.704+0	5.604+0	1.009+0	7.437+0	4.078+0	9.147+0	3.194+0	4.696+0	1.407+0	1.931+0	5.051+0	4.784+0
4.991+0	5.620+0	1.019+0	7.416+0	4.058+0	7.937+0	3.122+0	4.768+0	1.428+0	1.934+0	5.013+0	4.741+0
5.253+0	5.657+0	1.034+0	7.357+0	4.014+0	7.036+0	3.190+0	4.841+0	1.444+0	1.962+0	4.997+0	4.720+0
5.568+0	5.717+0	1.054+0	7.290+0	3.969+0	6.107+0	3.190+0	4.920+0	1.414+0	1.992+0	5.045+0	4.762+0
6.042+0	5.802+0	1.078+0	7.184+0	3.899+0	5.373+0	3.196+0	5.001+0	1.318+0	2.022+0	5.275+0	4.982+0
6.361+0	5.906+0	1.093+0	7.057+0	3.808+0	4.817+0	3.205+0	5.081+0	1.178+0	2.052+0	5.640+0	5.336+0
6.737+0	5.974+0	1.090+0	6.977+0	3.693+0	4.221+0	3.178+0	5.171+0	1.101+0	2.084+0	5.980+0	5.686+0
7.156+0	6.055+0	1.086+0	6.895+0	3.565+0	3.959+0	3.235+0	5.263+0	1.081+0	2.099+0	6.182+0	5.907+0
7.548+0	6.169+0	1.095+0	6.759+0	3.447+0	3.808+0	3.273+0	5.349+0	1.034+0	2.110+0	6.391+0	6.114+0
7.910+0	6.286+0	1.103+0	6.631+0	3.327+0	3.541+0	3.299+0	5.437+0	1.001+0	2.120+0	6.577+0	6.297+0
8.322+0	6.408+0	1.108+0	6.504+0	3.201+0	2.980+0	3.300+0	5.537+0	1.000+0	2.133+0	6.702+0	6.415+0
8.787+0	6.529+0	1.112+0	6.394+0	3.081+0	2.460+0	3.300+0	5.635+0	1.000+0	2.141+0	6.823+0	6.529+0
9.177+0	6.646+0	1.116+0	6.271+0	2.959+0	2.232+0	3.300+0	5.735+0	1.000+0	2.119+0	6.942+0	6.639+0
9.665+0	6.763+0	1.120+0	6.163+0	2.861+0	2.045+0	3.296+0	5.843+0	1.002+0	2.091+0	7.055+0	6.742+0
1.012+0	6.865+0	1.124+0	6.071+0	2.769+0	1.894+0	3.253+0	5.948+0	1.047+0	2.063+0	7.022+0	6.702+0
1.058+0	6.937+0	1.127+0	6.008+0	2.706+0	1.760+0	3.194+0	6.050+0	1.106+0	2.037+0	6.911+0	6.587+0
1.101+0	7.009+0	1.130+0	5.947+0	2.646+0	1.616+0	3.131+0	6.159+0	1.169+0	2.046+0	6.786+0	6.456+0
1.155+0	7.122+0	1.148+0	5.852+0	2.604+0	1.469+0	3.208+0	6.274+0	1.038+0	2.112+0	7.136+0	6.790+0
1.199+0	7.225+0	1.166+0	5.769+0	2.571+0	1.351+0	3.249+0	6.366+0	6.948+0	2.166+0	7.681+0	7.320+0
1.250+0	7.165+0	1.150+0	5.817+0	2.560+0	1.243+0	3.456+0	6.512+0	8.000+0	2.226+0	7.925+0	7.578+0
1.307+0	7.105+0	1.139+0	5.866+0	2.565+0	1.139+0	3.500+0	6.634+0	8.000+0	2.253+0	7.991+0	7.604+0
1.354+0	7.087+0	1.140+0	5.881+0	2.580+0	1.059+0	3.503+0	6.728+0	8.000+0	2.254+0	7.965+0	7.613+0
1.386+0	7.074+0	1.142+0	5.892+0	2.592+0	1.004+0	3.500+0	6.797+0	7.989+0	2.255+0	7.947+0	7.593+0
1.413+0	7.069+0	1.146+0	5.896+0	2.604+0	9.775+0	4.500+0	6.861+0	7.903+0	2.251+0	7.939+0	7.583+0
1.441+0	7.062+0	1.150+0	5.902+0	2.621+0	9.546+0	4.500+0	6.926+0	7.806+0	2.247+0	7.926+0	7.570+0
1.468+0	7.051+0	1.156+0	5.911+0	2.644+0	9.221+0	4.499+0	7.017+0	7.677+0	2.240+0	7.904+0	7.546+0
1.519+0	7.032+0	1.167+0	5.927+0	2.684+0	8.775+0	4.481+0	7.143+0	7.616+0	2.223+0	7.822+0	7.464+0
1.575+0	7.004+0	1.179+0	5.951+0	2.733+0	8.297+0	4.458+0	7.278+0	7.583+0	2.202+0	7.714+0	7.355+0
1.633+0	6.980+0	1.190+0	5.971+0	2.780+0	7.810+0	4.435+0	7.415+0	7.550+0	2.181+0	7.609+0	7.249+0
1.692+0	6.957+0	1.201+0	5.991+0	2.828+0	7.314+0	4.411+0	7.555+0	7.515+0	2.160+0	7.503+0	7.144+0
1.752+0	6.916+0	1.208+0	6.027+0	2.876+0	6.810+0	4.400+0	7.689+0	6.843+0	2.169+0	7.616+0	7.251+0
1.813+0	6.882+0	1.214+0	6.057+0	2.919+0	6.296+0	4.378+0	7.817+0	5.586+0	2.205+0	7.907+0	7.533+0
1.875+0	6.800+0	1.210+0	6.130+0	2.960+0	5.519+0	4.260+0	8.011+0	5.496+0	2.259+0	7.651+0	7.488+0
2.000+0											
RESONANCE INTEGRALS											
	1.589+0	4.1037+0	3.1484+0	4.1170+0				5.993+0	0.1003+0	5	
MAXWELLIAN AVERAGES											
	1.516+0	3.1154+0	1.505+0	3.000+0	3.673+0				1.013+0	4	
1/E AVERAGES											
	9.081+0	2.5926+0	8.478+0	2.6682+0	4.491+0	3.424+0			5.715+0	3	
FISSION AVERAGES											
	8.035+0	4.542+0	7.635+0	2.1973+0	4.1111+0	1.443+0			2.013+0		
FUSION AVERAGES											
	5.891+0	2.597+0	1.010+0	3.2500+0	6.813+0	7.931+0			2.252+0	1	

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ENDL 175 Group Neutron Constants

98-Cf-251

04/12/76

ENDL 175 Group Neutron Constants

98-Cf-251

ATOMIC WEIGHT 2.5101 ± 2		DENSITY 1.0000 ± 1 GRAMS/CC									
ENERGY	MFP (CM)	CROSS SECTION (BARNS)									
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
1.307 - 9	2.213 - 3	2.213 - 3	1.893 + 4	1.13 + 1	8.373 + 3	1.045 + 4	3.870 + 0	1.423 + 5	1.094 + 2	1.025 + 2	
5.227 - 9	4.423 + 3	4.423 + 3	9.423 + 3	1.13 + 1	4.184 + 3	5.227 + 3	3.870 + 0	7.114 + 4	1.094 + 2	1.025 + 2	
2.091 - 8	6.632 - 3	6.632 - 3	6.285 + 3	1.13 + 1	2.790 + 3	3.484 + 3	3.870 + 0	4.742 + 4	1.093 + 2	1.024 + 2	
3.267 - 8	8.105 - 3	8.105 - 3	5.143 + 3	1.13 + 1	2.292 + 3	2.894 + 3	3.870 + 0	3.878 + 4	1.093 + 2	1.024 + 2	
4.701 - 8	1.029 - 2	1.029 - 2	4.051 + 3	1.13 + 1	1.799 + 3	2.241 + 3	3.870 + 0	3.054 + 4	1.091 + 2	1.022 + 2	
8.322 - 8	1.322 - 2	1.322 - 2	3.152 + 3	1.13 + 1	1.398 + 3	1.742 + 3	3.870 + 0	2.374 + 4	1.090 + 2	1.021 + 2	
1.307 - 7	1.616 - 2	1.616 - 2	2.579 + 3	1.13 + 1	1.143 + 3	1.425 + 3	3.870 + 0	1.941 + 4	1.090 + 2	1.021 + 2	
1.882 - 7	1.901 - 2	1.901 - 2	2.192 + 3	2.074 + 1	9.663 + 2	1.205 + 3	3.870 + 0	1.641 + 4	1.084 + 2	1.016 + 2	
2.561 - 7	2.157 - 2	2.157 - 2	1.932 + 3	4.998 + 1	8.374 + 2	1.045 + 3	3.870 + 0	1.423 + 4	1.066 + 2	9.988 + 1	
3.345 - 7	2.390 - 2	2.390 - 2	1.744 + 3	8.388 + 1	7.388 + 2	9.213 + 2	3.870 + 0	1.255 + 4	1.042 + 2	9.760 + 1	
4.234 - 7	2.583 - 2	2.583 - 2	1.613 + 3	1.199 + 2	6.647 + 2	8.688 + 2	3.870 + 0	1.129 + 4	1.013 + 2	9.450 + 1	
5.123 - 7	1.060 - 2	1.060 - 2	3.931 + 3	2.040 + 2	3.012 + 3	7.151 + 2	3.870 + 0	2.957 + 4	3.270 + 1	3.351 + 1	
7.527 - 7	3.199 - 2	3.200 - 2	1.303 + 3	6.567 + 1	6.572 + 2	5.800 + 2	3.870 + 0	9.461 + 3	8.870 + 1	8.225 + 1	
1.176 - 6	4.328 - 2	4.328 - 2	9.631 + 2	2.995 + 1	4.439 + 2	4.893 + 2	3.870 + 0	7.083 + 3	1.005 + 2	9.366 + 1	
1.511 - 6	4.771 - 2	4.771 - 2	8.736 + 2	2.475 + 1	4.257 + 2	4.232 + 2	3.870 + 0	6.466 + 3	9.614 + 1	8.950 + 1	
2.091 - 6	5.282 - 2	5.283 - 2	7.890 + 2	2.289 + 1	4.012 + 2	3.649 + 2	3.870 + 0	5.853 + 3	9.206 + 1	8.545 + 1	
2.741 - 6	5.830 - 2	5.831 - 2	7.149 + 2	2.175 + 1	3.725 + 2	3.205 + 2	3.870 + 0	5.305 + 3	8.945 + 1	8.287 + 1	
3.533 - 6	6.574 - 2	6.575 - 2	6.340 + 2	2.080 + 1	3.334 + 2	2.799 + 2	3.870 + 0	4.698 + 3	8.808 + 1	8.153 + 1	
4.704 - 6	7.439 - 2	7.440 - 2	5.602 + 2	2.003 + 1	2.912 + 2	2.450 + 2	3.870 + 0	4.136 + 3	8.667 + 1	8.213 + 1	
5.658 - 6	8.376 - 2	8.377 - 2	4.976 + 2	1.929 + 1	2.508 + 2	2.276 + 2	3.870 + 0	3.655 + 3	9.103 + 1	8.450 + 1	
6.737 - 6	9.881 - 2	9.882 - 2	4.218 + 2	1.767 + 1	1.978 + 2	2.064 + 2	3.870 + 0	3.073 + 3	9.696 + 1	9.032 + 1	
8.322 - 6	3.972 - 2	3.973 - 2	1.048 + 3	6.071 + 1	2.734 + 2	7.151 + 2	3.870 + 0	7.300 + 3	1.326 + 2	1.259 + 2	
9.620 - 6	1.178 - 1	1.178 - 1	3.533 + 2	2.471 + 1	1.442 + 2	1.850 + 2	3.870 + 0	2.486 + 3	1.030 + 2	9.657 + 1	
1.101 - 5	1.230 - 1	1.230 - 1	3.330 + 2	2.165 + 1	1.355 + 2	1.680 + 2	3.870 + 0	2.333 + 3	1.057 + 2	9.919 + 1	
1.307 - 5	1.283 - 1	1.283 - 1	3.248 + 2	2.013 + 1	1.259 + 2	1.788 + 2	3.870 + 0	2.233 + 3	1.082 + 2	1.017 + 2	
1.648 - 5	1.327 - 1	1.327 - 1	3.141 + 2	1.886 + 1	1.188 + 2	1.764 + 2	3.870 + 0	2.219 + 3	1.103 + 2	1.038 + 2	
1.581 - 5	6.462 - 2	6.463 - 2	6.450 + 2	4.760 + 1	1.716 + 2	4.264 + 2	3.870 + 0	4.423 + 3	1.267 + 2	1.221 + 2	
1.758 - 5	1.560 - 1	1.560 - 1	2.672 + 2	2.692 + 1	1.071 + 2	1.332 + 2	3.870 + 0	8.816 + 3	9.828 + 1	9.207 + 1	
1.882 - 5	1.638 - 1	1.639 - 1	2.544 + 2	2.265 + 1	1.033 + 2	1.285 + 2	3.870 + 0	1.752 + 3	9.959 + 1	9.329 + 1	
2.075 - 5	1.725 - 1	1.725 - 1	2.420 + 2	2.081 + 1	9.953 + 1	1.226 + 2	3.870 + 0	1.672 + 3	9.994 + 1	9.363 + 1	
2.277 - 5	1.804 - 1	1.804 - 1	2.311 + 2	1.914 + 1	9.404 + 1	1.175 + 2	3.870 + 0	1.602 + 3	1.003 + 2	9.398 + 1	
2.417 - 5	7.148 - 2	7.149 - 2	5.831 + 2	5.160 + 1	1.502 + 2	3.813 + 2	3.870 + 0	3.929 + 3	1.273 + 2	1.208 + 2	
2.561 - 5	1.761 - 1	1.762 - 1	2.367 + 2	2.860 + 1	8.907 + 1	1.190 + 2	3.870 + 0	1.569 + 3	9.899 + 1	9.290 + 1	
2.710 - 5	1.859 - 1	1.859 - 1	2.242 + 2	2.335 + 1	8.661 + 1	1.143 + 2	3.870 + 0	1.516 + 3	1.004 + 2	9.416 + 1	
2.862 - 5	1.916 - 1	1.917 - 1	2.175 + 2	2.214 + 1	8.472 + 1	1.106 + 2	3.870 + 0	1.474 + 3	1.002 + 2	9.399 + 1	
2.940 - 5	1.977 - 1	1.977 - 1	2.108 + 2	2.113 + 1	8.277 + 1	1.069 + 2	3.870 + 0	1.432 + 3	9.993 + 1	9.371 + 1	
3.099 - 5	1.141 - 1	1.141 - 1	3.653 + 2	3.378 + 1	1.075 + 2	2.242 + 2	3.870 + 0	2.465 + 3	1.197 + 2	1.133 + 2	
3.345 - 5	1.911 - 1	1.912 - 1	2.181 + 2	2.263 + 1	7.802 + 1	1.073 + 2	3.870 + 0	1.397 + 3	9.685 + 1	9.095 + 1	
3.601 - 5	2.087 - 1	2.088 - 1	1.997 + 2	3.414 + 1	7.319 + 1	9.236 + 1	3.870 + 0	1.251 + 3	9.119 + 1	8.546 + 1	
3.866 - 5	2.254 - 1	2.255 - 1	1.894 + 2	2.522 + 1	7.007 + 1	8.959 + 1	3.870 + 0	1.206 + 3	9.550 + 1	8.953 + 1	
4.048 - 5	2.317 - 1	2.318 - 1	1.799 + 2	2.483 + 1	6.750 + 1	8.752 + 1	3.870 + 0	1.170 + 3	9.587 + 1	8.991 + 1	
4.234 - 5	2.362 - 1	2.363 - 1	1.765 + 2	2.473 + 1	6.555 + 1	8.618 + 1	3.870 + 0	1.145 + 3	9.619 + 1	8.924 + 1	
4.329 - 5	2.426 - 1	2.427 - 1	1.710 + 2	2.459 + 1	6.286 + 1	8.435 + 1	3.870 + 0	1.110 + 3	9.665 + 1	9.071 + 1	
4.619 - 5	2.494 - 1	2.495 - 1	1.671 + 2	2.445 + 1	6.014 + 1	8.250 + 1	3.870 + 0	1.075 + 3	9.714 + 1	9.122 + 1	
4.717 - 5	2.549 - 1	2.550 - 1	1.635 + 2	2.435 + 1	5.806 + 1	8.110 + 1	3.870 + 0	1.048 + 3	9.756 + 1	9.165 + 1	
4.918 - 5	2.622 - 1	2.623 - 1	1.590 + 2	2.420 + 1	5.523 + 1	7.953 + 1	3.870 + 0	1.014 + 3	9.833 + 1	9.244 + 1	
5.123 - 5	2.699 - 1	2.701 - 1	1.544 + 2	2.405 + 1	5.234 + 1	7.800 + 1	3.870 + 0	9.794 + 2	9.922 + 1	9.334 + 1	
5.332 - 5	2.806 - 1	2.807 - 1	1.486 + 2	2.387 + 1	4.884 + 1	7.605 + 1	3.870 + 0	9.354 + 2	1.004 + 2	9.458 + 1	
5.654 - 5	2.898 - 1	2.899 - 1	1.439 + 2	2.371 + 1	4.503 + 1	7.448 + 1	3.870 + 0	8.996 + 2	1.015 + 2	9.569 + 1	
5.763 - 5	3.017 - 1	3.018 - 1	1.381 + 2	2.355 + 1	4.143 + 1	7.316 + 1	3.870 + 0	8.653 + 2	1.027 + 2	9.684 + 1	
6.097 - 5	3.085 - 1	3.087 - 1	1.351 + 2	2.335 + 1	4.017 + 1	7.156 + 1	3.870 + 0	8.374 + 2	1.037 + 2	9.767 + 1	
6.325 - 5	3.133 - 1	3.134 - 1	1.330 + 2	2.319 + 1	3.980 + 1	7.025 + 1	3.870 + 0	8.207 + 2	1.034 + 2	9.756 + 1	
6.557 - 5	3.170 - 1	3.171 - 1	1.315 + 2	2.307 + 1	3.917 + 1	6.925 + 1	3.870 + 0	8.101 + 2	1.031 + 2	9.731 + 1	
6.754 - 5	3.220 - 1	3.221 - 1	1.295 + 2	2.290 + 1	3.857 + 1	6.799 + 1	3.870 + 0	7.963 + 2	1.028 + 2	9.703 + 1	
7.034 - 5	3.267 - 1	3.268 - 1	1.276 + 2	2.273 + 1	3.798 + 1	6.689 + 1	3.870 + 0	7.837 + 2	1.026 + 2	9.686 + 1	
7.155 - 5	3.316 - 1	3.317 - 1	1.257 + 2	2.255 + 1	3.736 + 1	6.579 + 1	3.870 + 0	7.709 + 2	1.025 + 2	9.670 + 1	
7.527 - 5	3.380 - 1	3.382 - 1	1.233 + 2	2.233 + 1	3.659 + 1	6.440 + 1	3.870 + 0	7.547 + 2	1.024 + 2	9.649 + 1	
7.780 - 5	3.420 - 1	3.422 - 1	1.219 + 2	2.219 + 1	3.611 + 1	6.355 + 1	3.870 + 0	7.449 + 2	1.021 + 2	9.636 + 1	
7.908 - 5	3.549 - 1	3.551 - 1	1.205 + 2	2.205 + 1	3.567 + 1	6.275 + 1	3.870 + 0	7.355 + 2	1.020 + 2	9.624 + 1	
8.167 - 5	3.588 - 1	3.589 - 1	1.188 + 2	2.187 + 1	3.513 + 1	6.183 + 1	3.870 + 0	7.246 + 2	1.019 + 2	9.614 + 1	
8.431 - 5	3.571 - 1	3.572 - 1	1.167 + 2	2.163 + 1	3.444 + 1	6.066 + 1	3.870 + 0	7.107 + 2	1.017 + 2	9.602 + 1	
8.834 - 5	3.637 - 1	3.639 - 1	1.146 + 2	2.139 + 1	3.374 + 1	5.948 + 1	3.870 + 0	6.966 + 2	1.016 + 2	9.589 + 1	

ATOMIC WEIGHT 2.5101 ± 2				DENSITY 1.0000 ± 1 GRAMS/CC							
ENERGY		HFP (CM)		CROSS SECTION (BARNS)				ENERGY DEPOSIT (MEV)			
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
9.108-5	3.692-1	3.694-1	1.129-2	2.119-1	3.319-1	5.951-1	3.870-0		6.953-2	2.015-2	9.576-1
9.389-5	3.742-1	3.744-1	1.114-2	2.099-1	3.271-1	5.765-1	3.870-0		6.754-2	2.013-2	9.565-1
9.668-5	3.779-1	3.781-1	1.103-2	2.084-1	3.238-1	5.706-1	3.870-0		6.684-2	2.013-2	9.560-1
9.811-5	3.830-1	3.832-1	1.088-2	2.064-1	3.191-1	5.627-1	3.870-0		6.590-2	2.012-2	9.554-1
1.025-4	3.939-1	3.941-1	1.058-2	2.022-1	3.096-1	5.464-1	3.870-0		6.397-2	2.011-2	9.540-1
1.099-4	4.070-1	4.072-1	1.024-2	1.968-1	2.993-1	5.279-1	3.870-0		6.182-2	2.009-2	9.526-1
1.176-4	4.204-1	4.206-1	9.914-3	1.912-1	2.895-1	5.107-1	3.870-0		5.980-2	2.008-2	9.517-1
1.252-4	4.344-1	4.346-1	9.596-3	1.854-1	2.799-1	4.942-1	3.870-0		5.765-2	2.008-2	9.516-1
1.338-4	4.465-1	4.467-1	9.335-3	1.801-1	2.725-1	4.809-1	3.870-0		5.630-2	2.008-2	9.518-1
1.406-4	4.609-1	4.611-1	9.044-3	1.741-1	2.642-1	4.661-1	3.870-0		5.457-2	2.009-2	9.521-1
1.511-4	4.742-1	4.745-1	8.789-3	1.717-1	2.555-1	4.517-1	3.870-0		5.285-2	2.006-2	9.494-1
1.601-4	4.854-1	4.856-1	8.587-3	1.714-1	2.466-1	4.386-1	3.870-0		5.126-2	2.000-2	9.438-1
1.694-4	4.966-1	4.969-1	8.393-3	1.711-1	2.416-1	4.266-1	3.870-0		4.984-2	2.002-2	9.511-1
1.789-4	5.076-1	5.079-1	8.212-3	1.707-1	2.350-1	4.155-1	3.870-0		4.861-2	2.005-2	9.549-1
1.887-4	5.185-1	5.188-1	8.038-3	1.703-1	2.292-1	4.043-1	3.870-0		4.734-2	2.007-2	9.593-1
1.988-4	5.292-1	5.295-1	7.876-3	1.700-1	2.232-1	3.945-1	3.870-0		4.616-2	2.004-2	9.553-1
2.091-4	5.405-1	5.408-1	7.731-3	1.686-1	2.054-1	3.631-1	3.870-0		4.248-2	2.004-2	9.101-1
2.241-4	5.617-1	5.619-1	7.655-3	1.664-1	1.839-1	3.252-1	3.870-0		3.805-2	2.024-2	8.895-1
3.267-4	6.581-1	6.586-1	6.333-3	1.644-1	1.693-1	2.995-1	3.870-0		3.504-2	2.029-2	9.738-1
3.811-4	7.056-1	7.063-1	5.906-3	1.627-1	1.545-1	2.734-1	3.870-0		3.197-2	2.062-2	8.553-1
4.704-4	7.419-1	7.424-1	5.618-3	1.615-1	1.445-1	2.559-1	3.870-0		2.982-2	2.086-2	8.115-1
4.991-4	7.882-1	7.889-1	5.288-3	1.605-1	1.240-1	2.443-1	3.870-0		2.743-2	2.027-2	8.536-1
5.698-4	8.467-1	8.474-1	4.923-3	1.593-1	1.001-1	2.329-1	3.870-0		2.467-2	2.020-2	8.739-1
6.042-4	8.816-1	8.824-1	4.788-3	1.589-1	8.766-2	2.263-1	3.870-0		2.319-2	2.037-2	8.844-1
6.367-4	9.309-1	9.318-1	4.477-3	1.582-1	7.295-2	2.169-1	3.870-0		2.130-2	2.046-2	9.152-1
7.156-4	1.007-0	1.008-0	4.141-3	1.572-1	5.375-2	2.031-1	3.870-0		1.879-2	2.011-2	9.063-1
8.322-4	1.075-0	1.076-0	3.877-3	1.562-1	4.066-2	1.928-1	3.870-0		1.689-2	2.020-2	9.094-1
9.177-4	1.140-0	1.141-0	3.657-3	1.551-1	3.152-2	1.791-1	3.870-0		1.528-2	2.069-2	9.048-1
1.058-3	1.234-0	1.236-0	3.377-3	1.538-1	2.562-2	1.582-1	3.870-0		1.332-2	2.056-2	9.254-1
1.307-3	1.352-0	1.353-0	3.084-3	1.522-1	1.961-2	1.366-1	3.870-0		1.129-2	2.055-2	8.183-1
1.581-3	1.449-0	1.451-0	2.876-3	1.506-1	1.754-2	1.195-1	3.870-0		9.908-3	2.022-2	7.673-1
1.882-3	1.532-0	1.525-0	2.720-3	1.495-1	1.691-2	1.057-1	3.870-0		8.877-3	2.006-2	7.176-1
2.208-3	1.681-0	1.684-0	2.479-3	1.482-1	1.622-2	8.355-2	3.871-1		7.251-3	2.016-2	6.226-1
2.561-3	1.790-0	1.793-0	2.328-3	1.469-1	1.500-2	7.095-2	3.871-1		6.257-3	2.039-2	5.631-1
2.940-3	1.867-0	1.871-0	2.232-3	1.457-1	1.343-2	6.405-2	3.871-1		5.640-3	2.055-2	5.302-1
3.345-3	1.925-0	1.928-0	2.165-3	1.445-1	1.176-2	6.022-2	3.871-1		5.232-3	2.081-2	5.139-1
3.777-3	1.983-0	1.987-0	2.102-3	1.433-1	1.016-2	5.676-2	3.871-1		4.856-3	2.222-2	4.990-1
4.234-3	2.076-0	2.080-0	2.007-3	1.412-1	9.097-2	5.040-2	3.871-1		4.318-3	2.885-2	4.638-1
5.763-3	2.211-0	2.216-0	1.885-3	1.388-1	8.197-2	4.146-2	3.871-1		3.610-3	4.256-2	4.064-1
7.527-3	2.539-0	2.544-0	1.641-3	1.189-1	7.528-2	3.774-2	3.872-1		3.293-3	4.449-2	4.248-1
1.025-2	2.851-0	2.857-0	1.462-3	1.047-1	6.581-2	3.487-2	3.873-1		3.012-3	4.634-2	4.407-1
1.511-2	2.935-0	2.950-0	1.420-3	1.042-1	5.639-2	3.218-2	3.874-1		2.744-3	4.381-2	4.186-1
2.091-2	3.012-0	3.041-0	1.384-3	1.036-1	4.973-2	2.875-2	3.875-1	1.539-4	2.518-3	4.156-2	3.973-1
2.546-2	3.074-0	3.114-0	1.356-3	1.030-1	4.617-2	2.790-2	3.877-1	3.652-3	2.358-3	3.977-2	3.801-1
3.267-2	3.139-0	3.194-0	1.328-3	1.024-1	4.356-2	2.594-2	3.878-1	8.080-3	2.197-3	3.776-2	3.609-1
3.993-2	3.181-0	3.251-0	1.310-3	1.017-1	4.057-2	2.516-2	3.880-1	1.463-3	2.118-3	3.710-2	3.547-1
4.701-2	3.222-0	3.310-0	1.293-3	1.008-1	3.488-2	2.487-2	3.882-1	2.186-3	2.051-3	3.713-2	3.552-1
5.761-2	3.273-0	3.394-0	1.273-3	9.962-2	2.891-2	2.451-2	3.884-1	3.105-3	1.977-3	3.714-2	3.555-1
7.002-2	3.326-0	3.490-0	1.253-3	9.834-2	2.463-2	2.410-2	3.887-1	4.129-3	1.913-3	3.709-2	3.553-1
8.322-2	3.382-0	3.596-0	1.232-3	9.689-2	2.159-2	2.364-2	3.891-1	5.285-3	1.856-3	3.699-2	3.544-1
9.891-2	3.512-0	3.793-0	1.187-3	9.319-2	1.872-2	2.289-2	3.896-1	7.184-3	1.778-3	3.717-2	3.562-1
1.137-1	3.602-0	4.235-0	1.096-3	8.530-2	1.683-2	2.156-2	3.905-1	1.170-3	1.684-3	3.790-2	3.633-1
1.820-1	3.692-0	4.723-0	1.019-3	7.816-2	1.440-2	2.035-2	3.914-1	1.054-3	1.565-3	3.850-2	3.691-1
2.075-1	3.793-0	4.905-0	9.939-3	7.589-2	1.348-2	1.966-2	3.921-1	2.492-3	1.508-3	3.810-2	3.652-1
2.417-1	3.859-0	5.074-0	9.781-3	7.446-2	1.283-2	1.900-2	3.928-1	2.127-3	1.456-3	3.738-2	3.584-1
2.710-1	4.313-0	5.210-0	9.661-3	7.329-2	1.249-2	1.845-2	3.934-1	3.650-3	1.415-3	3.677-2	3.525-1
2.940-1	4.354-0	5.305-0	9.574-3	7.186-2	1.216-2	1.779-2	3.941-1	4.874-3	1.394-3	3.579-2	3.430-1
3.345-1	4.367-0	5.395-0	9.543-3	6.998-2	1.174-2	1.692-2	3.950-1	7.365-3	1.653-3	3.415-2	3.272-1
3.777-1	4.378-0	5.482-0	9.521-3	6.801-2	1.147-2	1.608-2	3.960-1	9.971-3	1.680-3	3.255-2	3.118-1
4.234-1	4.366-0	5.498-0	9.464-3	6.529-2	1.152-2	1.566-2	3.975-1	1.336-3	1.722-3	3.162-2	3.028-1
5.234-1	4.473-0	5.703-0	9.319-3	6.112-2	1.208-2	1.514-2	3.999-1	1.512-3	1.730-3	3.133-2	2.997-1
6.151-1	4.669-0	6.088-0	9.926-3	5.653-2	1.269-2	1.454-2	4.026-1	1.693-3	1.709-3	3.143-2	3.004-1

04/12/76

ENDL 175 Group Neutron Constants

98-Cf-252

04/12/76

ENDL 175 Group Neutron Constants

98-Cf-252

ATOMIC WEIGHT 2.5201 ± 2				DENSITY 1.0040 ± 1 GRAMS/CC								
ENERGY	MF (CM)			CROSS SECTION (BARNs)				ENERGY DEPOSIT (MEV)				
MEV	TOTAL	TRANSPORT		TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	2.224-9	2.225-9	1.874-9	1.914-9	6.396-9	1.043-9	3.570-9	1.144-9	1.090-9	1.032-9	2.266-9	2.266-9
5.227-9	4.199-9	4.201-9	9.927-9	1.878-9	3.060-9	4.988-9	3.570-9	5.472-9	9.639-9	9.314-9	5.472-9	5.472-9
2.091-8	5.792-8	5.796-8	7.196-8	1.812-8	2.024-8	3.300-8	3.570-9	3.620-8	8.979-8	8.500-8	5.267-8	5.267-8
3.267-8	6.700-7	6.706-7	6.221-7	1.870-7	1.855-7	2.897-7	3.570-9	2.958-7	8.468-7	8.036-7	3.267-7	3.267-7
4.704-8	7.881-6	7.888-6	5.289-6	1.863-6	1.300-6	2.120-6	3.570-9	3.25-6	7.847-6	7.429-6	4.704-6	4.704-6
8.322-5	9.206-5	9.217-5	4.527-5	1.868-5	1.011-5	1.648-5	3.570-9	1.808-5	7.127-5	6.748-5	8.322-5	8.322-5
1.307-7	1.031-7	1.032-7	4.04-7	1.868-7	8.262-7	1.347-7	3.570-9	1.478-7	6.525-7	6.177-7	1.307-7	1.307-7
1.882-7	1.124-7	1.125-7	3.709-7	1.868-7	7.002-7	1.141-7	3.570-9	1.252-7	6.024-7	5.703-7	1.882-7	1.882-7
2.561-7	1.203-7	1.205-7	3.464-7	1.867-7	6.070-7	9.301-7	3.570-9	1.085-7	5.596-7	5.298-7	2.561-7	2.561-7
3.345-7	1.272-7	1.274-7	3.277-7	1.867-7	5.360-7	8.742-7	3.570-9	9.589-7	5.223-7	4.945-7	3.345-7	3.345-7
4.234-7	1.330-7	1.332-7	3.133-7	1.866-7	4.811-7	7.958-7	3.570-9	8.615-7	4.310-7	4.648-7	4.234-7	4.234-7
5.123-7	1.397-7	1.500-7	2.784-7	1.865-7	3.171-7	6.018-7	3.570-9	6.274-7	4.224-7	4.007-7	5.123-7	5.123-7
7.527-7	1.743-7	1.747-7	2.391-7	1.863-7	1.462-7	3.812-7	3.570-9	3.629-7	3.105-7	2.956-7	7.527-7	7.527-7
1.176-6	1.873-6	1.877-6	2.226-6	1.861-6	1.009-6	2.640-6	3.570-9	2.512-6	2.310-6	2.199-6	1.176-6	1.176-6
1.511-6	1.963-6	1.967-6	2.124-6	1.858-6	7.331-6	1.924-6	3.570-9	1.828-6	1.763-6	1.679-6	1.511-6	1.511-6
2.091-6	2.042-6	2.047-6	2.041-6	1.854-6	5.164-6	1.355-6	3.570-9	1.288-6	1.292-6	1.230-6	2.091-6	2.091-6
2.741-6	2.107-6	2.107-6	1.985-6	1.850-6	3.740-6	9.806-6	3.570-9	9.322-6	9.117-6	8.156-6	2.741-6	2.741-6
3.533-6	2.147-6	2.153-6	1.941-6	1.844-6	2.66-6	7.036-6	3.570-9	6.689-6	7.056-6	6.720-6	3.533-6	3.533-6
4.704-6	2.180-6	2.185-6	1.912-6	1.837-6	2.063-6	5.428-6	3.570-9	5.159-6	5.546-6	5.262-6	4.704-6	4.704-6
5.658-6	2.201-6	2.206-6	1.894-6	1.831-6	1.740-6	4.569-6	3.570-9	4.342-6	4.697-6	4.472-6	5.658-6	5.658-6
6.737-6	2.216-6	2.224-6	1.879-6	1.823-6	1.558-6	4.088-6	3.570-9	3.885-6	4.235-6	4.032-6	6.737-6	6.737-6
8.322-6	2.229-6	2.235-6	1.870-6	1.814-6	1.560-6	4.081-6	3.570-9	3.882-6	4.249-6	4.045-6	8.322-6	8.322-6
9.620-6	2.239-6	2.245-6	1.862-6	1.798-6	1.758-6	4.611-6	3.570-9	3.489-6	4.823-6	4.582-6	9.620-6	9.620-6
1.101-5	2.246-6	2.252-6	1.856-6	1.765-6	2.517-6	6.607-6	3.570-9	6.279-6	6.931-6	6.599-6	1.101-5	1.101-5
1.307-5	2.213-6	2.218-6	1.884-6	1.697-6	5.162-6	1.355-6	3.570-9	1.228-6	1.401-6	1.334-6	1.307-5	1.307-5
1.466-5	2.200-6	2.204-6	2.084-6	1.578-6	1.397-6	3.667-6	3.570-9	3.485-6	3.425-6	3.361-6	1.466-5	1.466-5
1.581-5	6.245-6	6.347-6	2.658-6	4.562-6	1.675-6	4.397-6	3.570-9	4.179-6	3.403-6	3.241-6	1.581-5	1.581-5
1.758-5	7.726-6	7.737-6	5.395-6	2.747-6	7.302-6	1.917-6	3.570-9	1.822-6	6.919-6	6.587-6	1.758-5	1.758-5
1.882-5	1.788-6	1.792-6	2.412-6	2.132-6	7.710-6	2.324-6	3.570-9	1.924-6	1.634-6	1.556-6	1.882-5	1.882-5
2.075-5	1.988-6	2.003-6	2.066-6	1.999-6	2.425-6	5.365-6	3.570-9	6.049-6	5.939-6	5.655-6	2.075-5	2.075-5
2.277-5	2.085-6	2.091-6	1.999-6	1.946-6	1.450-6	3.838-6	3.570-9	3.618-6	3.702-6	3.531-6	2.277-5	2.277-5
2.417-5	2.126-6	2.134-6	1.958-6	1.915-6	1.178-6	3.093-6	3.570-9	2.940-6	3.075-6	2.928-6	2.417-5	2.417-5
2.561-5	2.164-6	2.169-6	1.926-6	1.886-6	1.115-6	2.828-6	3.570-9	2.783-6	2.959-6	2.817-6	2.561-5	2.561-5
2.710-5	2.193-6	2.198-6	1.901-6	1.856-6	2.44-6	3.265-6	3.570-9	3.103-6	3.344-6	3.184-6	2.710-5	2.710-5
2.862-5	2.209-6	2.214-6	1.887-6	1.833-6	1.507-6	2.955-6	3.570-9	3.749-6	4.080-6	3.885-6	2.862-5	2.862-5
2.940-5	2.222-6	2.228-6	1.875-6	1.797-6	2.158-6	5.666-6	3.570-9	5.395-6	5.682-6	5.631-6	2.940-5	2.940-5
3.099-5	2.132-6	2.137-6	1.955-6	1.657-6	6.230-6	2.161-6	3.570-9	2.053-6	2.152-6	2.048-6	3.099-5	3.099-5
3.345-5	2.118-6	2.119-6	1.421-6	4.432-6	8.212-6	2.156-6	3.570-9	2.049-6	1.227-6	1.168-6	3.345-5	3.345-5
3.601-5	1.759-6	1.763-6	2.370-6	2.164-6	5.685-6	1.493-6	3.570-9	1.416-6	1.226-6	1.167-6	3.601-5	3.601-5
3.866-5	2.010-6	2.016-6	2.073-6	2.016-6	1.572-6	4.126-6	3.570-9	3.921-6	3.875-6	3.689-6	3.866-5	3.866-5
4.048-5	2.082-6	2.087-6	2.002-6	1.965-6	1.025-6	2.690-6	3.570-9	2.557-6	2.616-6	2.490-6	4.048-5	4.048-5
4.234-5	2.094-6	2.124-6	1.967-6	1.935-6	8.830-6	2.318-6	3.570-9	2.203-6	2.295-6	2.185-6	4.234-5	4.234-5
4.329-5	2.161-6	2.166-6	1.929-6	1.895-6	9.385-6	2.444-6	3.570-9	2.342-6	2.487-6	2.368-6	4.329-5	4.329-5
4.619-5	2.194-6	2.200-6	1.900-6	1.854-6	1.251-6	3.285-6	3.570-9	3.122-6	3.367-6	3.206-6	4.619-5	4.619-5
4.717-5	2.219-6	2.225-6	1.878-6	1.800-6	2.146-6	5.635-6	3.570-9	3.555-6	5.841-6	5.562-6	4.717-5	4.717-5
4.918-5	2.079-6	2.084-6	2.005-6	1.615-6	1.075-6	2.822-6	3.570-9	2.682-6	2.741-6	2.605-6	4.918-5	4.918-5
5.123-5	1.230-6	1.230-6	3.350-6	4.976-6	7.978-6	2.095-6	3.570-9	1.990-6	3.203-6	2.145-6	5.123-5	5.123-5
5.332-5	1.761-6	1.765-6	2.367-6	2.187-6	4.958-6	1.302-6	3.570-9	1.237-6	1.071-6	1.020-6	5.332-5	5.332-5
5.651-5	2.002-6	2.010-6	2.081-6	1.935-6	1.284-6	3.371-6	3.570-9	1.203-6	3.153-6	3.002-6	5.651-5	5.651-5
5.733-5	2.076-6	2.081-6	2.008-6	1.977-6	8.432-6	2.214-6	3.570-9	2.104-6	2.184-6	2.044-6	5.733-5	5.733-5
6.097-5	2.143-6	2.148-6	1.945-6	1.917-6	7.816-6	2.052-6	3.570-9	1.950-6	2.054-6	1.955-6	6.097-5	6.097-5
6.325-5	2.186-6	2.191-6	1.907-6	1.864-6	1.172-6	3.077-6	3.570-9	2.824-6	3.141-6	2.991-6	6.325-5	6.325-5
6.574-5	2.220-6	2.226-6	1.878-6	1.797-6	2.223-6	5.835-6	3.570-9	5.546-6	6.051-6	5.761-6	6.574-5	6.574-5
6.774-5	2.342-6	2.343-6	1.780-6	3.406-6	3.969-6	1.042-6	3.570-9	3.904-6	2.140-6	2.085-6	6.774-5	6.774-5
7.034-5	1.130-6	1.130-6	3.103-6	2.515-6	1.621-6	4.257-6	3.570-9	4.946-6	2.671-6	2.543-6	7.034-5	7.034-5
7.155-5	1.898-6	1.903-6	2.196-6	2.116-6	2.205-6	5.789-6	3.570-9	5.501-6	5.131-6	4.886-6	7.155-5	7.155-5
7.527-5	2.055-6	2.061-6	2.028-6	2.001-6	7.632-6	2.378-6	3.570-9	1.979-6	1.898-6	1.808-6	7.527-5	7.527-5
7.780-5	2.104-6	2.109-6	1.981-6	1.958-6	6.513-6	2.170-6	3.570-9	1.625-6	1.680-6	1.500-6	7.780-5	7.780-5
7.908-5	2.147-6	2.152-6	1.942-6	1.914-6	7.576-6	2.199-6	3.570-9	1.890-6	1.994-6	1.895-6	7.908-5	7.908-5
8.167-5	2.197-6	2.203-6	1.897-6	1.840-6	1.566-6	4.113-6	3.570-9	3.908-6	4.221-6	4.019-6	8.167-5	8.167-5
8.431-5	2.821-6	2.823-6	1.477-6	3.347-6	3.152-6	8.276-6	3.570-9	7.865-6	2.990-6	2.038-6	8.431-5	8.431-5
8.634-5	1.740-6	1.744-6	2.395-6	2.241-6	4.294-6	1.117-6	3.570-9	1.061-6	9.078-6	8.643-6	8.634-5	8.634-5

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.5201 ± 2				DENSITY 1.0040 ± 1 GRAMS/CC									
ELEM	Z	A	M.P. (°C)	CROSS SECTION (BARNS)									
				TOTAL	ELASTIC	ABSORPTN	FISSION	NU-BAR	REMAINDER	GAM-PROD.	TOTAL	LOCAL	
1	1	1	0.000	2.093	2.059	9.421	2.474	3.570	0	2.351	2.301	2.191	0
2	2	2	0.000	2.011	1.990	5.915	2.553	3.570	0	1.476	1.503	1.431	0
3	3	3	0.000	1.968	1.946	5.983	2.571	3.570	0	1.493	1.554	1.480	0
4	4	4	0.000	1.915	1.870	1.263	3.316	3.570	0	3.151	3.371	3.209	0
5	5	5	0.000	2.635	1.550	4.058	3.570	0	0.866	2.969	8.920	1	
6	6	6	0.000	2.014	1.989	6.940	2.822	3.570	0	1.732	1.761	1.677	0
7	7	7	0.000	2.745	3.42	3.525	3.570	0	3.350	2.910	8.582	1	
8	8	8	0.000	2.060	2.034	1.655	2.826	3.570	0	1.735	1.726	1.643	0
9	9	9	0.000	2.807	1.450	3.807	3.570	0	3.618	2.911	8.751	1	
10	10	10	0.000	2.147	2.110	1.033	2.712	3.570	0	2.577	2.458	2.341	0
11	11	11	0.000	2.670	1.131	2.761	3.570	0	2.674	2.887	7.790	1	
12	12	12	0.000	2.142	4.877	4.707	3.570	0	6.419	3.013	2.814	1	
13	13	13	0.000	1.900	1.076	4.822	3.570	0	6.251	2.978	2.788	1	
14	14	14	0.000	2.085	4.765	4.325	3.570	0	6.077	2.851	2.676	1	
15	15	15	0.000	2.172	4.707	4.126	3.570	0	5.899	2.678	2.503	1	
16	16	16	0.000	2.261	4.647	3.970	3.570	0	5.751	2.523	2.356	1	
17	17	17	0.000	2.338	4.414	3.667	3.570	0	5.389	2.247	2.094	1	
18	18	18	0.000	2.587	3.865	3.217	3.570	0	4.735	1.938	1.809	1	
19	19	19	0.000	2.648	3.450	2.931	3.570	0	4.268	1.770	1.653	1	
20	20	20	0.000	2.613	3.065	2.627	3.570	0	3.781	1.639	1.531	1	
21	21	21	0.000	2.591	2.900	2.445	3.570	0	3.567	1.554	1.450	1	
22	22	22	0.000	2.577	2.872	2.319	3.570	0	3.459	1.489	1.388	1	
23	23	23	0.000	2.561	2.842	2.188	3.570	0	3.347	1.422	1.324	1	
24	24	24	0.000	2.550	2.821	2.117	3.570	0	3.284	1.366	1.269	1	
25	25	25	0.000	2.534	2.799	2.028	3.570	0	3.200	1.342	1.247	1	
26	26	26	0.000	2.504	2.732	1.874	3.570	0	3.055	1.263	1.172	1	
27	27	27	0.000	2.482	2.673	1.751	3.570	0	2.930	1.199	1.110	1	
28	28	28	0.000	2.465	2.612	1.639	3.570	0	2.812	1.137	1.051	1	
29	29	29	0.000	2.445	2.573	1.525	3.570	0	2.706	1.077	9.934	0	
30	30	30	0.000	2.422	2.539	1.389	3.570	0	2.595	1.003	9.223	0	
31	31	31	0.000	2.407	2.514	1.240	3.570	0	2.452	9.136	8.363	0	
32	32	32	0.000	2.388	2.483	1.096	3.570	0	2.320	8.253	7.515	0	
33	33	33	0.000	2.361	2.442	0.951	3.570	0	2.208	7.752	7.037	0	
34	34	34	0.000	2.337	2.377	0.823	3.570	0	2.134	7.219	6.529	0	
35	35	35	0.000	2.314	2.356	0.700	3.570	0	2.060	6.769	6.102	0	
36	36	36	0.000	2.291	2.333	0.580	3.570	0	1.987	6.515	5.865	0	
37	37	37	0.000	2.267	2.309	0.460	3.570	0	1.913	6.230	5.599	0	
38	38	38	0.000	2.244	2.290	0.340	3.570	0	1.840	5.950	5.320	0	
39	39	39	0.000	2.221	2.267	0.220	3.570	0	1.767	5.669	5.039	0	
40	40	40	0.000	2.198	2.244	0.100	3.570	0	1.694	5.388	4.758	0	
41	41	41	0.000	2.175	2.221	0.080	3.570	0	1.621	5.107	4.477	0	
42	42	42	0.000	2.152	2.198	0.060	3.570	0	1.548	4.826	4.196	0	
43	43	43	0.000	2.129	2.175	0.040	3.570	0	1.475	4.545	3.915	0	
44	44	44	0.000	2.106	2.152	0.020	3.570	0	1.402	4.264	3.634	0	
45	45	45	0.000	2.083	2.129	0.000	3.570	0	1.329	3.983	3.353	0	
46	46	46	0.000	2.060	2.106	0.000	3.570	0	1.256	3.702	3.072	0	
47	47	47	0.000	2.037	2.083	0.000	3.570	0	1.183	3.421	2.791	0	
48	48	48	0.000	2.014	2.060	0.000	3.570	0	1.110	3.140	2.510	0	
49	49	49	0.000	1.991	2.037	0.000	3.570	0	1.037	2.859	2.229	0	
50	50	50	0.000	1.968	2.014	0.000	3.570	0	0.964	2.578	1.948	0	
51	51	51	0.000	1.945	1.991	0.000	3.570	0	0.891	2.297	1.667	0	
52	52	52	0.000	1.922	1.968	0.000	3.570	0	0.818	2.016	1.386	0	
53	53	53	0.000	1.899	1.945	0.000	3.570	0	0.745	1.735	1.105	0	
54	54	54	0.000	1.876	1.922	0.000	3.570	0	0.672	1.454	0.824	0	
55	55	55	0.000	1.853	1.899	0.000	3.570	0	0.599	1.173	0.543	0	
56	56	56	0.000	1.830	1.876	0.000	3.570	0	0.526	0.892	0.262	0	
57	57	57	0.000	1.807	1.853	0.000	3.570	0	0.453	0.611	0.000	0	
58	58	58	0.000	1.784	1.830	0.000	3.570	0	0.380	0.330	0.000	0	
59	59	59	0.000	1.761	1.807	0.000	3.570	0	0.307	0.050	0.000	0	
60	60	60	0.000	1.738	1.784	0.000	3.570	0	0.234	0.000	0.000	0	
61	61	61	0.000	1.715	1.761	0.000	3.570	0	0.161	0.000	0.000	0	
62	62	62	0.000	1.692	1.738	0.000	3.570	0	0.088	0.000	0.000	0	

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ENDL 175 Group Neutron Constants

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ATOMIC WEIGHT 2.5201 ± 2				DENSITY 1.0040 ± 1 GRAMS/CC							
ENERGY	MF (CM)		CROSS SECTION (BARNES)				ENERGY DEPOSITION (MEV)				
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	F15510N	NU-BAR REMAINDER GAM-PROD	TOTAL	LOCAL		
7.527	4.900	5.909	3.286	5.437	5.471	5.455	3.761	3.249	1.764	3.218	3.078
8.834	4.813	6.865	8.660	4.990	4.014	2.857	3.792	1.772	1.950	4.142	3.967
1.025	5.085	7.773	9.197	4.599	3.139	2.136	3.826	1.430	2.043	5.027	4.818
1.176	5.302	7.980	7.861	4.237	2.574	2.342	3.863	1.256	2.089	5.744	5.506
1.338	5.532	8.232	7.535	3.928	1.973	2.441	3.902	1.146	2.132	6.243	5.995
1.511	5.712	8.444	7.296	3.709	1.639	2.491	3.933	1.080	2.178	6.576	6.303
1.694	5.866	8.663	7.105	3.562	1.526	2.495	3.907	1.042	2.226	6.737	6.456
1.887	5.996	8.877	6.951	3.461	1.407	2.472	4.033	1.006	2.270	6.842	6.555
2.051	6.064	9.029	6.814	3.407	1.281	2.454	4.081	1.000	2.261	6.872	6.582
2.305	6.083	9.171	6.652	3.409	1.149	2.431	4.133	1.000	2.233	6.829	6.537
2.530	6.062	9.297	6.875	3.459	1.019	2.406	4.183	1.000	2.217	6.735	6.445
2.741	6.035	9.422	6.906	3.519	9.745	3.378	4.239	1.000	2.193	6.627	6.339
3.011	5.984	9.546	6.909	3.599	7.792	3.348	4.300	1.014	2.165	6.485	6.199
3.267	5.907	9.637	7.056	3.690	7.420	3.319	4.361	1.040	2.140	6.324	6.040
3.533	5.832	9.741	7.147	3.785	6.992	3.287	4.425	1.067	2.113	6.161	5.880
3.811	5.761	9.863	7.234	3.877	6.591	3.257	4.487	1.094	2.087	6.007	5.727
4.069	5.726	9.999	7.279	3.935	6.151	3.227	4.555	1.112	2.093	5.831	5.611
4.396	5.701	1.011	7.311	3.983	5.675	3.195	4.629	1.128	2.111	5.785	5.503
4.704	5.678	1.022	7.340	4.027	5.229	3.165	4.698	1.142	2.129	5.684	5.403
4.991	5.674	1.033	7.364	4.040	4.863	3.133	4.773	1.167	2.147	5.597	5.314
5.253	5.708	1.049	7.301	4.005	4.596	3.128	4.850	1.164	2.166	5.619	5.330
5.658	5.753	1.065	7.254	3.966	4.320	3.153	4.921	1.183	2.186	5.637	5.333
6.042	5.782	1.074	7.209	3.904	4.036	3.151	4.991	1.159	2.206	6.750	6.434
6.367	5.800	1.092	7.088	3.840	3.759	3.590	5.060	1.156	2.226	6.967	6.664
6.737	5.900	1.111	6.958	3.758	3.443	3.570	5.139	1.160	2.246	7.031	6.731
7.156	6.061	1.144	6.854	3.644	3.119	3.543	5.220	1.204	2.264	7.057	6.753
7.548	6.160	1.113	6.766	3.631	2.817	3.518	5.296	1.139	2.228	7.075	6.767
7.910	6.262	1.116	6.666	3.418	2.508	3.493	5.377	1.118	2.215	7.109	6.795
8.322	6.381	1.124	6.532	3.298	2.157	3.466	5.479	1.139	2.201	7.177	6.857
8.787	6.512	1.133	6.400	3.180	1.815	3.444	5.579	1.145	2.187	7.247	6.922
9.177	6.653	1.142	6.265	3.059	1.463	3.419	5.681	1.185	2.172	7.323	6.991
9.665	6.808	1.151	6.122	2.932	1.098	3.392	5.791	1.193	2.158	7.406	7.066
1.012	6.916	1.158	6.026	2.847	9.824	3.365	5.899	1.126	2.166	7.437	7.091
1.059	7.005	1.165	5.950	2.780	9.601	3.340	6.003	1.285	2.183	7.449	7.097
1.101	7.104	1.172	5.867	2.708	9.360	3.314	6.116	1.433	2.202	7.468	7.110
1.155	7.204	1.178	5.785	2.634	9.115	3.286	6.234	1.637	2.221	8.075	7.704
1.199	7.263	1.180	5.723	2.588	8.877	3.260	6.346	1.653	2.239	8.476	8.097
1.250	7.297	1.184	5.712	2.561	8.608	3.241	6.473	1.659	2.259	8.949	8.111
1.307	7.292	1.187	5.716	2.565	8.347	3.216	6.597	1.684	2.263	9.418	8.035
1.354	7.266	1.189	5.784	2.585	8.119	3.197	6.692	1.698	2.257	8.337	7.954
1.396	7.248	1.190	5.751	2.600	8.001	3.176	6.762	1.136	2.252	8.276	7.894
1.413	7.231	1.191	5.764	2.614	7.865	3.157	6.827	1.635	2.247	8.221	7.839
1.441	7.213	1.193	5.778	2.627	7.727	3.147	6.892	1.635	2.241	8.166	7.784
1.468	7.192	1.195	5.795	2.647	7.533	3.131	6.984	1.646	2.234	8.089	7.707
1.519	7.195	1.209	5.733	2.673	7.265	3.109	7.108	1.600	2.226	7.979	7.599
1.575	7.201	1.227	5.786	2.707	6.918	3.080	7.240	1.500	2.219	7.894	7.476
1.633	7.168	1.240	5.814	2.763	6.686	3.051	7.375	1.599	2.211	7.874	7.495
1.692	7.114	1.247	5.858	2.822	6.388	3.024	7.511	1.500	2.203	7.912	7.531
1.752	7.064	1.256	5.901	2.882	6.086	3.000	7.650	1.507	2.195	7.790	7.403
1.813	7.000	1.257	5.954	2.933	5.778	2.978	7.792	1.522	2.195	7.654	7.275
1.875	6.998	1.250	6.042	3.003	5.311	2.949	8.006	1.189	2.201	7.446	7.068
2.000											
RESONANCE INTEGRALS			4.563	2.857	2.506	1.149	4.936	1.156	3		
MAXWELLIAN AVERAGES			6.738	1.872	1.850	1.016	3.570	3	309	2	
1/E AVERAGES			2.607	1.632	1.895	0.567	3.663	2.820	1.607	1	
FISSION AVERAGES			7.810	4.673	4.088	2.191	4.146	1.180	1.855	1	
FUSION AVERAGES			5.754	2.603	2.968	4.534	6.777	0.603	2.250	1	

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ENDL 175 Group Neutron Constants Fission Products

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ENDL 175 Group Neutron Constants Fission Products

ATOMIC WEIGHT 1.1700E-2			DENSITY 0.0300E+0 GRAMS/CC						
ENERGY		MPF (%)	CROSS SECTION (BARNES)					ENERGY DEPOSIT(MEV)	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL
1.307-9	7.427-2	7.428-2	3.270-2	5.000-0	3.220-2		9.112-2	7.878-0	2.964-4
5.227-9	5.548-1	1.548-1	1.569-2	2.500-0	1.519-2		9.292-2	7.755-0	2.916-4
2.091-8	2.356-1	2.357-1	1.031-2	5.000-0	9.606-1		2.775-2	7.612-0	2.768-4
3.267-8	2.855-1	2.855-1	8.511-1	5.000-0	8.011-1		2.267-2	7.530-0	2.738-4
4.704-8	3.569-1	3.570-1	6.805-1	5.000-0	6.305-1		1.78-2	7.412-0	2.695-4
8.322-7	4.499-1	4.499-1	2.515-1	5.000-0	2.015-1		5.685-2	7.291-0	2.647-4
3.077-7	5.391-1	5.395-1	4.505-1	5.000-0	4.005-1		1.133-2	7.112-0	2.587-4
1.882-7	6.246-1	6.251-1	3.888-1	5.000-0	3.388-1		9.588-2	6.971-0	2.536-4
2.561-7	7.068-1	7.074-1	3.436-1	5.000-0	2.936-1		8.309-2	6.836-0	2.488-4
3.345-7	7.858-1	7.865-1	3.091-1	5.000-0	2.591-1		7.331-2	6.708-0	2.441-4
4.234-7	8.570-1	8.579-1	2.834-1	5.000-0	2.334-1		6.605-2	6.598-0	2.399-4
5.121-7	9.656-1	9.667-1	2.515-1	5.000-0	2.015-1		5.685-2	6.567-0	2.351-4
7.527-7	7.138-0	7.140-0	2.134-1	5.000-0	1.634-1		4.624-2	6.126-0	2.234-4
1.176-6	1.293-0	1.295-0	1.879-1	5.000-0	1.379-1		3.902-2	5.871-0	2.144-4
1.511-6	1.436-0	1.438-0	1.691-1	5.000-0	1.191-1		3.372-2	5.635-0	2.061-4
2.091-6	1.595-0	1.598-0	1.532-1	5.000-0	1.032-1		2.920-2	5.389-0	1.975-4
2.741-6	1.841-0	1.845-0	1.480-1	5.000-0	9.795-0		2.772-2	5.258-0	1.946-4
3.535-6	1.676-0	1.679-0	1.423-1	5.000-0	9.491-0		2.686-2	5.163-0	1.916-4
4.73-6	7.0-0	7.07-0	1.425-1	5.000-0	9.252-0		2.618-2	5.193-0	1.922-4
5.658-6	7.27-0	7.30-0	1.406-1	5.000-0	9.064-0		2.565-2	5.155-0	1.914-4
6.737-6	7.51-0	7.54-0	1.387-1	5.000-0	8.871-0		2.510-2	5.116-0	1.908-4
8.322-6	7.72-0	7.76-0	1.370-1	5.000-0	8.701-0		2.463-2	5.081-0	1.904-4
9.620-6	7.91-0	7.94-0	1.356-1	5.000-0	8.563-0		2.423-2	5.051-0	1.900-4
1.101-5	1.110-0	1.113-0	1.341-1	5.000-0	8.431-0		2.384-2	5.021-0	1.896-4
1.307-5	1.828-0	1.832-0	1.328-1	5.000-0	8.285-0		2.345-2	4.989-0	1.900-4
1.468-5	1.839-0	1.843-0	1.321-1	5.000-0	8.209-0		2.323-2	4.972-0	1.902-4
1.581-5	1.849-0	1.853-0	1.314-1	5.000-0	8.137-0		2.303-2	4.955-0	1.905-4
1.758-5	1.859-0	1.863-0	1.306-1	5.000-0	8.064-0		2.282-2	4.938-0	1.908-4
1.882-5	1.870-0	1.874-0	1.299-1	5.000-0	7.988-0		2.260-2	4.920-0	1.910-4
2.078-5	1.881-0	1.885-0	1.292-1	5.000-0	7.916-0		2.239-2	4.903-0	1.913-4
2.277-5	1.895-0	1.899-0	1.281-1	5.000-0	7.841-0		2.212-2	4.879-0	1.917-4
2.417-5	1.901-0	1.906-0	1.277-1	5.000-0	7.772-0		2.200-2	4.868-0	1.922-4
2.561-5	1.908-0	1.912-0	1.273-1	5.000-0	7.729-0		2.187-2	4.858-0	1.925-4
2.710-5	1.915-0	1.919-0	1.268-1	5.000-0	7.685-0		2.175-2	4.847-0	1.931-4
2.862-5	1.920-0	1.924-0	1.265-1	5.000-0	7.651-0		2.165-2	4.839-0	1.935-4
2.940-5	1.926-0	1.929-0	1.262-1	5.000-0	7.616-0		2.155-2	4.829-0	1.938-4
3.099-5	1.934-0	1.939-0	1.256-1	5.000-0	7.581-0		2.138-2	4.814-0	1.945-4
3.345-5	1.945-0	1.950-0	1.248-1	5.000-0	7.463-0		2.118-2	4.796-0	1.952-4
3.601-5	1.954-0	1.959-0	1.243-1	5.000-0	7.346-0		2.102-2	4.781-0	1.962-4
3.866-5	1.961-0	1.966-0	1.238-1	5.000-0	7.26-0		2.090-2	4.770-0	1.971-4
4.048-5	1.966-0	1.971-0	1.235-1	5.000-0	7.250-0		2.080-2	4.761-0	1.978-4
4.234-5	1.971-0	1.976-0	1.232-1	5.000-0	7.207-0		2.072-2	4.753-0	1.984-4
4.329-5	1.977-0	1.981-0	1.229-1	5.000-0	7.207-0		2.062-2	4.745-0	1.991-4
4.619-5	1.982-0	1.987-0	1.225-1	5.000-0	7.250-0		2.052-2	4.735-0	1.998-4
4.717-5	1.987-0	1.992-0	1.222-1	5.000-0	7.222-0		2.044-2	4.727-0	2.004-4
4.918-5	1.993-0	1.998-0	1.218-1	5.000-0	7.184-0		2.033-2	4.717-0	2.012-4
5.123-5	1.999-0	2.004-0	1.215-1	5.000-0	7.149-0		2.023-2	4.708-0	2.020-4
5.328-5	2.003-0	2.008-0	1.211-1	5.000-0	7.114-0		2.014-2	4.699-0	2.028-4
5.55-5	2.009-0	2.014-0	1.209-1	5.000-0	7.080-0		2.006-2	4.691-0	2.041-4
5.763-5	2.014-0	2.019-0	1.206-1	5.000-0	7.060-0		1.998-2	4.683-0	2.051-4
6.097-5	2.020-0	2.025-0	1.202-1	5.000-0	7.024-0		1.988-2	4.673-0	2.063-4
6.325-5	2.025-0	2.029-0	1.200-1	5.000-0	6.995-0		1.980-2	4.665-0	2.073-4
6.557-5	2.029-0	2.033-0	1.197-1	5.000-0	6.973-0		1.973-2	4.659-0	2.081-4
6.74-5	2.033-0	2.038-0	1.195-1	5.000-0	6.953-0		1.966-2	4.653-0	2.089-4
7.034-5	2.039-0	2.044-0	1.191-1	5.000-0	6.913-0		1.956-2	4.642-0	2.101-4
7.155-5	2.043-0	2.048-0	1.188-1	5.000-0	6.895-0		1.948-2	4.634-0	2.112-4
7.527-5	2.048-0	2.053-0	1.186-1	5.000-0	6.857-0		1.940-2	4.626-0	2.125-4
7.780-5	2.051-0	2.056-0	1.184-1	5.000-0	6.840-0		1.936-2	4.622-0	2.135-4
9.08-5	2.054-0	2.059-0	1.182-1	5.000-0	6.824-0		1.931-2	4.617-0	2.144-4
8.15-4	2.058-0	2.063-0	1.180-1	5.000-0	6.808-0		1.926-2	4.613-0	2.153-4
6.431-3	2.063-0	2.068-0	1.177-1	5.000-0	6.772-0		1.917-2	4.602-0	2.172-4
6.834-3	2.066-0	2.073-0	1.174-1	5.000-0	6.743-0		1.908-2	4.594-0	2.187-4

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ENDL 175 Group Neutron Constants Fission Products

ATOMIC WEIGHT		1.1700 * 2		DENSITY 8.0000 * 6 GRAMS/CC						ENERGY DEPOSIT (K E V)	
ENERGY		MF (CM)		CROSS SECTION (BARNS)						TOTAL	
MEV	TOTAL	TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
9.109 - 3	2.072 + 0	2.077 + 0	1.172 + 1	5.000 + 0	6.720 + 0	1.902 + 1	4.587 + 0	2.100 - 4			
9.386 - 5	2.076 + 0	2.082 + 0	1.170 + 1	5.000 + 0	6.695 + 0	1.895 + 1	4.580 + 0	2.213 - 4			
9.659 - 5	2.080 + 0	2.085 + 0	1.168 + 1	5.000 + 0	6.677 + 0	1.890 + 1	4.575 + 0	2.282 - 4			
9.811 - 5	2.084 + 0	2.089 + 0	1.165 + 1	5.000 + 0	6.652 + 0	1.883 + 1	4.567 + 0	2.235 - 4			
1.025 - 4	2.092 + 0	2.097 + 0	1.161 + 1	5.000 + 0	6.610 + 0	1.871 + 1	4.555 + 0	2.263 - 4			
1.099 - 4	2.100 + 0	2.105 + 0	1.156 + 1	5.000 + 0	6.565 + 0	1.858 + 1	4.541 + 0	2.299 - 4			
1.176 - 4	2.109 + 0	2.114 + 0	1.152 + 1	5.000 + 0	6.518 + 0	1.845 + 1	4.527 + 0	2.337 - 4			
1.256 - 4	2.117 + 0	2.122 + 0	1.147 + 1	5.000 + 0	6.469 + 0	1.831 + 1	4.512 + 0	2.375 - 4			
1.339 - 4	2.126 + 0	2.131 + 0	1.142 + 1	5.000 + 0	6.424 + 0	1.818 + 1	4.499 + 0	2.410 - 4			
1.406 - 4	2.134 + 0	2.139 + 0	1.138 + 1	5.000 + 0	6.382 + 0	1.806 + 1	4.486 + 0	2.452 - 4			
1.511 - 4	2.141 + 0	2.147 + 0	1.134 + 1	5.000 + 0	6.341 + 0	1.795 + 1	4.473 + 0	2.500 - 4			
1.601 - 4	2.149 + 0	2.154 + 0	1.130 + 1	5.000 + 0	6.302 + 0	1.783 + 1	4.461 + 0	2.545 - 4			
1.694 - 4	2.156 + 0	2.162 + 0	1.126 + 1	5.000 + 0	6.262 + 0	1.772 + 1	4.448 + 0	2.590 - 4			
1.789 - 4	2.164 + 0	2.170 + 0	1.122 + 1	5.000 + 0	6.221 + 0	1.761 + 1	4.435 + 0	2.634 - 4			
1.887 - 4	2.172 + 0	2.177 + 0	1.118 + 1	5.000 + 0	6.182 + 0	1.750 + 1	4.423 + 0	2.680 - 4			
1.988 - 4	2.179 + 0	2.184 + 0	1.115 + 1	5.000 + 0	6.150 + 0	1.741 + 1	4.413 + 0	2.735 - 4			
2.091 - 4	2.203 + 0	2.209 + 0	1.102 + 1	5.000 + 0	6.025 + 0	1.705 + 1	4.372 + 0	2.916 - 4			
2.741 - 4	2.267 + 0	2.273 + 0	1.071 + 1	5.000 + 0	5.715 + 0	1.617 + 1	4.267 + 0	3.162 - 4			
3.267 - 4	2.325 + 0	2.331 + 0	1.045 + 1	5.000 + 0	5.446 + 0	1.541 + 1	4.171 + 0	3.373 - 4			
3.811 - 4	2.390 + 0	2.396 + 0	1.016 + 1	5.000 + 0	5.163 + 0	1.461 + 1	4.064 + 0	3.655 - 4			
4.704 - 4	2.437 + 0	2.444 + 0	9.865 + 0	5.000 + 0	4.955 + 0	1.405 + 1	3.886 + 0	3.889 - 4			
4.991 - 4	2.472 + 0	2.479 + 0	9.826 + 0	5.000 + 0	4.925 + 0	1.366 + 1	3.827 + 0	4.066 - 4			
5.659 - 4	2.504 + 0	2.511 + 0	9.700 + 0	5.000 + 0	4.700 + 0	1.331 + 1	3.877 + 0	4.270 - 4			
6.012 - 4	2.525 + 0	2.533 + 0	9.617 + 0	5.000 + 0	4.617 + 0	1.307 + 1	3.841 + 0	4.404 - 4			
6.367 - 4	2.557 + 0	2.565 + 0	9.497 + 0	5.000 + 0	4.497 + 0	1.273 + 1	3.786 + 0	4.610 - 4			
7.156 - 4	2.603 + 0	2.611 + 0	9.330 + 0	5.000 + 0	4.330 + 0	1.226 + 1	3.715 + 0	4.979 - 4			
8.322 - 4	2.649 + 0	2.658 + 0	9.165 + 0	5.000 + 0	4.165 + 0	1.179 + 1	3.637 + 0	5.144 - 4			
9.177 - 4	2.691 + 0	2.699 + 0	9.025 + 0	5.000 + 0	4.025 + 0	1.140 + 1	3.569 + 0	5.757 - 4			
1.056 - 3	2.756 + 0	2.765 + 0	8.913 + 0	5.000 + 0	3.913 + 0	1.079 + 1	3.462 + 0	6.479 - 4			
1.307 - 3	2.827 + 0	2.837 + 0	8.589 + 0	5.000 + 0	3.589 + 0	1.016 + 1	3.344 + 0	7.344 - 4			
1.581 - 3	2.892 + 0	2.902 + 0	8.398 + 0	5.000 + 0	3.398 + 0	9.623 + 0	3.328 + 0	8.292 - 4			
1.882 - 3	2.950 + 0	2.960 + 0	8.232 + 0	5.000 + 0	3.232 + 0	9.155 + 0	3.142 + 0	9.308 - 4			
2.208 - 3	3.004 + 0	3.015 + 0	8.084 + 0	5.000 + 0	3.084 + 0	8.736 + 0	3.053 + 0	1.127 - 3			
2.561 - 3	3.053 + 0	3.064 + 0	7.994 + 0	5.000 + 0	2.954 + 0	8.368 + 0	2.972 + 0	1.150 - 3			
2.940 - 3	3.098 + 0	3.109 + 0	7.839 + 0	5.000 + 0	2.839 + 0	8.044 + 0	2.899 + 0	1.257 - 3			
3.345 - 3	3.141 + 0	3.152 + 0	7.732 + 0	5.000 + 0	2.732 + 0	7.743 + 0	2.828 + 0	1.389 - 3			
3.777 - 3	3.180 + 0	3.192 + 0	7.639 + 0	5.000 + 0	2.636 + 0	7.476 + 0	2.764 + 0	1.516 - 3			
4.234 - 3	3.249 + 0	3.262 + 0	7.474 + 0	5.000 + 0	2.474 + 0	7.014 + 0	2.650 + 0	1.789 - 3			
5.763 - 3	3.341 + 0	3.354 + 0	7.270 + 0	5.000 + 0	2.270 + 0	6.438 + 0	2.500 + 0	2.221 - 3			
7.527 - 3	3.429 + 0	3.443 + 0	7.082 + 0	5.000 + 0	2.082 + 0	6.002 + 0	2.354 + 0	2.775 - 3			
1.025 - 2	3.598 + 0	3.613 + 0	6.750 + 0	5.021 + 0	1.729 + 0	7.777 + 0	2.053 + 0	3.427 - 3			
1.511 - 2	3.774 + 0	3.791 + 0	6.434 + 0	5.062 + 0	1.372 + 0	7.707 + 0	1.710 + 0	4.087 - 3			
2.091 - 2	3.885 + 0	3.903 + 0	6.252 + 0	5.106 + 0	1.145 + 0	7.631 + 0	1.470 + 0	4.670 - 3			
2.646 - 2	3.952 + 0	3.971 + 0	6.145 + 0	5.152 + 0	9.931 - 1	7.554 + 0	1.298 + 0	5.192 - 3			
3.267 - 2	3.998 + 0	4.017 + 0	6.075 + 0	5.203 + 0	8.719 - 1	7.467 + 0	1.154 + 0	5.662 - 3			
3.953 - 2	4.025 + 0	4.045 + 0	6.033 + 0	5.259 + 0	7.744 - 1	7.372 + 0	1.033 + 0	6.176 - 3			
4.704 - 2	4.038 + 0	4.059 + 0	6.014 + 0	5.329 + 0	6.847 - 1	7.253 + 0	9.176 - 1	6.713 - 3			
5.761 - 2	4.034 + 0	4.055 + 0	6.020 + 0	5.419 + 0	6.017 - 1	7.101 + 0	9.069 - 1	7.313 - 3			
7.002 - 2	4.013 + 0	4.034 + 0	6.052 + 0	5.518 + 0	5.340 - 1	6.932 + 0	7.139 - 1	7.901 - 3			
8.322 - 2	4.976 + 0	4.997 + 0	6.108 + 0	5.630 + 0	4.773 - 1	6.741 + 0	6.337 + 0	8.469 - 3			
9.891 - 2	4.980 + 0	4.970 + 0	6.151 + 0	5.734 + 0	4.115 - 1	4.938 - 3	6.427 + 0	9.381 - 3			
1.307 - 1	4.925 + 0	4.088 + 0	6.187 + 0	5.631 + 0	3.370 - 1	1.877 - 2	5.878 + 0	4.469 - 1	1.073 - 2		
1.820 - 1	4.890 + 0	4.113 + 0	6.243 + 0	5.921 + 0	2.908 - 1	3.157 - 2	5.370 + 0	3.852 - 1	1.177 - 2		
2.075 - 1	4.896 + 0	4.120 + 0	6.297 + 0	5.931 + 0	2.651 - 1	4.153 - 2	4.975 + 0	3.503 + 0	1.246 - 2		
2.417 - 1	4.818 + 0	4.582 + 0	6.360 + 0	6.055 + 0	2.430 - 1	5.211 - 2	4.595 + 0	3.202 + 0	1.309 - 2		
2.710 - 1	4.785 + 0	4.734 + 0	6.415 + 0	6.126 + 0	2.284 - 1	6.093 - 2	4.209 + 0	3.001 + 0	1.356 - 2		
2.940 - 1	4.745 + 0	4.844 + 0	6.484 + 0	6.200 + 0	2.129 - 1	7.142 - 2	3.789 + 0	2.789 + 0	1.404 - 2		
3.345 - 1	4.691 + 0	5.080 + 0	6.579 + 0	6.298 + 0	1.953 - 1	8.536 - 2	3.236 + 0	2.560 + 0	1.456 - 2		
3.777 - 1	4.638 + 0	5.371 + 0	6.675 + 0	6.389 + 0	1.818 - 1	1.042 - 1	2.649 + 0	2.367 + 0	1.506 - 2		
4.234 - 1	4.598 + 0	5.511 + 0	6.749 + 0	6.417 + 0	1.645 - 1	1.678 - 1	1.771 + 0	2.180 + 0	1.617 - 2		
5.123 - 1	4.540 + 0	5.426 + 0	6.860 + 0	6.443 + 0	1.444 - 1	2.724 - 1	1.448 + 0	1.893 + 0	1.784 - 2		
6.325 - 1	4.473 + 0	5.337 + 0	6.993 + 0	6.473 + 0	1.274 - 1	3.926 - 1	1.639 + 0	1.877 + 0	1.959 - 2		

04/12/76

ENDL 175 Group Neutron Constants Fission Products

ATOMIC WEIGHT 1.1700+2		DENSITY 8.0000+0 GRAMS/CC								
ENERGY		HFP (CM)		CROSS SECTIONS (BARNs)					ENERGY DEPOSIT(MEV)	
MEV	TOTAL TRANSPORT	TOTAL	ELASTIC	ABSORPTN	REMAINDER	GAM-PROD.	TOTAL	LOCAL		
7.527-1	3.419-0	5.268-0	7.104-0	6.485-0	1.143-1	5.0-77	1.837-0	1.838-1	2.131-2	
8.934-1	3.420-0	5.258-0	7.101-0	6.419-0	1.034-1	5.792-1	2.759-0	1.858-1	2.329-2	
1.025-0	3.474-0	5.367-0	6.990-0	6.139-0	9.498-2	7.955-1	2.161-1	2.059-1	2.553-2	
1.176-0	3.562-0	5.479-0	6.817-0	5.732-0	8.719-2	9.985-1	3.140-0	2.425-1	2.786-2	
1.331-0	3.631-0	5.577-0	6.653-0	5.577-0	8.076-2	1.269-0	3.598-0	2.507-1	2.914-2	
1.511-0	3.772-0	5.687-0	6.438-0	7.435-0	6.989-2	7.533-0	4.715-0	3.609-1	3.160-2	
1.694-0	3.898-0	5.777-0	6.231-0	4.345-0	6.048-2	1.825-0	5.487-0	4.511-1	3.264-2	
1.887-0	4.036-0	5.862-0	6.014-0	3.861-0	5.126-2	2.102-0	6.212-0	5.614-1	3.372-2	
2.091-0	4.189-0	5.899-0	5.802-0	3.602-0	4.703-2	2.152-0	6.273-0	6.480-1	3.589-2	
2.305-0	4.351-0	5.881-0	5.581-0	3.382-0	4.374-2	2.155-0	6.188-0	7.359-1	3.832-2	
2.530-0	4.524-0	5.863-0	5.363-0	3.164-0	4.07-2	2.159-0	6.099-0	8.289-1	4.124-2	
2.771-0	4.711-0	5.850-0	5.122-0	2.924-0	3.686-2	2.161-0	6.011-0	9.508-1	4.369-2	
3.011-0	4.914-0	5.702-0	4.942-0	2.744-0	3.292-2	2.164-0	5.938-0	1.075-0	4.611-2	
3.267-0	5.121-0	5.715-0	4.836-0	2.640-0	2.900-2	2.168-0	5.892-0	1.194-0	4.778-2	
3.533-0	5.338-0	5.721-0	4.727-0	2.531-0	2.492-2	2.171-0	5.843-0	1.326-0	4.905-2	
3.811-0	5.579-0	5.731-0	4.619-0	2.424-0	2.102-2	2.174-0	5.795-0	1.452-0	4.987-2	
4.094-0	5.841-0	5.747-0	4.504-0	2.304-0	1.716-2	2.178-0	5.746-0	1.619-0	5.206-2	
4.396-0	6.124-0	5.761-0	4.380-0	2.180-0	1.862-2	2.182-0	5.696-0	1.799-0	5.500-2	
4.704-0	6.595-0	5.790-0	4.264-0	2.061-0	1.788-2	2.186-0	5.633-0	1.917-0	5.770-2	
4.991-0	7.173-0	8.053-0	4.207-0	2.000-0	1.707-2	2.190-0	5.687-0	2.118-0	6.007-2	
5.353-0	7.768-0	8.165-0	4.210-0	2.000-0	1.624-2	2.194-0	5.844-0	2.294-0	6.192-2	
5.698-0	8.563-0	8.259-0	4.214-0	2.000-0	1.537-2	2.198-0	6.007-0	2.449-0	6.337-2	
6.042-0	9.579-0	8.377-0	4.217-0	2.000-0	1.447-2	2.197-0	6.174-0	2.625-0	6.478-2	
6.367-0	10.759-0	8.755-0	4.184-0	2.005-0	1.362-2	2.185-0	6.338-0	2.713-0	6.558-2	
6.757-0	12.059-0	8.988-0	4.333-0	2.116-0	1.263-2	2.174-0	6.522-0	2.946-0	6.614-2	
7.156-0	13.540-0	8.708-0	4.384-0	2.209-0	1.162-2	2.163-0	6.681-0	2.977-0	6.713-2	
7.548-0	15.081-0	8.744-0	4.431-0	2.267-0	1.068-2	2.153-0	6.822-0	3.095-0	6.803-2	
7.910-0	16.722-0	8.777-0	4.479-0	2.326-0	9.931-3	2.142-0	6.966-0	3.194-0	6.910-2	
8.322-0	18.559-0	8.815-0	4.532-0	2.390-0	9.584-3	2.132-0	7.130-0	3.153-0	7.106-2	
8.767-0	20.584-0	8.863-0	4.584-0	2.452-0	9.264-3	2.123-0	7.278-0	3.087-0	7.283-2	
9.177-0	22.877-0	8.903-0	4.638-0	2.516-0	8.934-3	2.113-0	7.326-0	2.979-0	7.448-2	
9.665-0	5.172-0	8.959-0	4.696-0	2.584-0	8.581-3	2.103-0	7.359-0	2.887-0	7.606-2	
1.012-1	5.101-0	8.990-0	4.761-0	2.653-0	8.236-3	2.100-0	7.391-0	2.759-0	7.730-2	
1.058-1	5.030-0	9.019-0	4.828-0	2.720-0	7.901-3	2.100-0	7.422-0	2.624-0	7.834-2	
1.101-1	4.955-0	9.044-0	4.899-0	2.792-0	7.545-3	2.100-0	7.326-0	2.494-0	7.924-2	
1.155-1	4.889-0	9.066-0	4.973-0	2.852-0	7.192-3	2.100-0	7.132-0	2.350-0	8.030-2	
1.199-1	4.850-0	9.191-0	5.007-0	2.916-0	6.815-3	2.084-0	6.943-0	2.324-0	8.120-2	
1.250-1	4.851-0	9.394-0	5.006-0	2.952-0	6.412-3	2.048-0	6.733-0	2.385-0	8.192-2	
1.307-1	4.951-0	9.617-0	5.006-0	2.987-0	6.021-3	2.013-0	6.677-0	2.433-0	8.224-2	
1.354-1	4.871-0	9.774-0	4.985-0	2.980-0	5.723-3	2.003-0	5.719-0	2.504-0	8.281-2	
1.396-1	4.501-0	9.863-0	4.956-0	2.950-0	5.501-3	2.000-0	6.758-0	2.589-0	8.351-2	
1.443-1	4.414-0	9.934-0	4.928-0	2.927-0	5.287-3	2.000-0	6.824-0	2.657-0	8.414-2	
1.441-1	4.956-0	1.002-1	4.901-0	2.895-0	5.091-3	2.000-0	6.939-0	2.732-0	8.477-2	
1.468-1	4.995-0	1.010-1	4.862-0	2.856-0	4.799-3	2.000-0	7.060-0	2.840-0	8.566-2	
1.519-1	5.037-0	1.021-1	4.82-0	2.817-0	4.397-3	2.000-0	7.073-0	2.889-0	8.705-2	
1.575-1	5.040-0	1.018-1	4.810-0	2.777-0	3.967-3	2.037-0	7.045-0	2.932-0	8.910-2	
1.633-1	5.087-0	1.027-1	4.774-0	2.736-0	3.529-3	2.044-0	7.017-0	2.998-0	9.059-2	
1.691-1	5.135-0	1.038-1	4.731-0	2.695-0	3.087-3	2.040-0	6.989-0	3.067-0	9.214-2	
1.752-1	5.213-0	1.049-1	4.655-0	2.652-0	2.629-3	2.004-0	6.977-0	2.230-0	9.388-2	
1.813-1	5.279-0	1.060-1	4.600-0	2.609-0	2.167-3	1.989-0	6.983-0	2.345-0	9.490-2	
1.875-1	5.389-0	1.075-1	4.511-0	2.544-0	1.667-3	1.966-0	6.992-0	2.521-0	9.703-2	
2.000-1										
RESONANCE INTEGRALS		1.691-2	2.854-3	1.774-9	1.6158-0	2.542-2				
MAX-ELIAN AVERAGES		9.554-0	1.5000-0	9.054-1		2.562-2				
1/E AVERAGES		9.659-0	4.880-0	4.427-0	3.518-1	1.452-1				
FISSION AVERAGES		5.981-0	4.529-0	9.339-2	1.358-0	4.516-0				
FUSION AVERAGES		4.947-0	2.941-0	5.451-3	3.001-0	6.803-0				