Measurement of the Neutron Total Cross Section of Fluorine from 5 eV to 20 MeV

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Printed in the United States of America. Available from
National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road, Springfield, Virginia 22161
Price: Printed Copy \$4.00; Microfiche \$2.25

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Contract No. W-7405-eng-26

Neutron Physics Division

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FROM 5 eV TO 20 MeV

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Date Published: October 1976

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NOTE: This work funded in part by Defense
Nuclear Agency under Subtask NA010-02

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ABSTRACT

Neutron transmissions through Teflon (CF_2) and carbon have been measured to provide high resolution transmission and cross sections for fluorine from 5 eV to 20 MeV. The Oak Ridge Electron Linear Accelerator (ORELA) was used for the neutron source. The 80-m flight path with a ^6Li glass detector was used for the low-energy measurements, and the 200-m flight path with a NE-110 detector was used for the higher energy measurements. The various background contributions were carefully studied and are discussed in detail. The 2389 resulting values are tabulated and compared with the current ENDF/B-IV evaluation.

INTRODUCTION

During preparation of the first ENDF/B evaluation (FU74) of fluorine, data for the total cross section were frequently inadequate, and the file had to be pieced together from many separate measurements. Often, overlapping data sets were in serious disagreement with each other, and the energy resolution was often insufficient to resolve the structure in the cross sections. In addition, no measurements of the fluorine total cross sections have been reported from thermal to 1 keV. Fluorine is one of the materials being evaluated for use in the breeding blanket of fusion reactors, and since it will exist in combination with other materials, it is important to have an accurate absolute energy scale as well as reliable cross section values. For these reasons, we have made an extensive study of the transmission of neutrons through Teflon (CF_2). Two flight paths, two different samples, two different detectors and two different neutron producing targets were employed in various combinations for the measurements. Because these experiments utilized most of the experimental techniques currently in use at ORELA for transmission measurements, we present a detailed description of our work.

Section I includes our experimental procedures and Section II describes the data reduction. Section III is a discussion of the energy resolution, Section IV is a presentation of the results and comparison with the ENDF/B-IV evaluation, and Section V contains the summary and conclusions.

EXPERIMENTAL PROCEDURE

Due to the wide energy range over which data were required (5 eV to 20 MeV), two different experimental setups were necessary. In the first arrangement, designed for measuring neutrons from a few eV to a few tens of keV, data were acquired with the 80-m flight path using a 1.3-cm thick, 11-cm diameter lithium-6 glass scintillation detector. The ORELA electron beam burst width was 7 ns, with a repetition rate of 180 sec^{-1} . The power on the target was 2 kW. Two filters were inserted in the neutron beam: 0.60 cm of lead to diminish the gamma flash produced when the electron beam strikes the water-moderated tantalum target and a $300\text{-mg/cm}^2 \text{ B}^{10}$ filter to eliminate the overlap of low-energy neutrons from preceding bursts. The higher energy data (above about 20 keV) were acquired on the 200-m flight path using a NE-110 proton recoil detector. For this part of the measurement the electron beam burst width was either 3 or 5 ns, depending on the run. A repetition rate of 1000 sec^{-1} was used, with 10 kW of power on the target. The filters on this flight path consisted of 2.0 cm of uranium to reduce the gamma flash and 300 mg/cm^2 of B^{10} to reduce the flux of low-energy neutrons. In addition to the water-moderated tantalum target, measurements were also made at the 200-m flight path with a beryllium block target. The neutron spectrum from the Be block is much harder than from the water-moderated Ta, and thus provides data with higher statistical accuracy for energies above 1 MeV. Furthermore, the largest component of the background for the Ta target — gamma rays from hydrogen capture by the water moderator — is eliminated since there is no water around the Be block. However, the energy resolution is somewhat poorer since the Be target is thicker.

The data from the two flight paths overlap from about 20 to 150 keV and the resulting cross sections are in good agreement except where the energy resolution at the 80-m flight path was comparable to the widths of the narrow resonances. The two fluorine samples used in this measurement had $1/n$ values of 7.639 and 59.21 b/atom and were machined from commercial Teflon, $(CF_2)_n$. Quantitative chemical analyses for carbon, fluorine and other halogens, and semi-quantitative spectroscopic analyses for other impurities showed that all impurities were less than 5 ppm except for chlorine, which was less than 700 ppm. For the thick Teflon sample, a reactor-grade carbon sample was made to exactly compensate the carbon present in the Teflon, and was used for the sample-out measurement. Thus the fluorine transmissions were obtained directly by dividing the CF_2 spectrum by the C spectrum. For the thin sample, a matching carbon compensator would have been too fragile; therefore transmission through the Teflon was measured relative to the "open" beam. Following conversion of the transmission to cross section, the carbon total cross section was subtracted using the relation $\sigma(b) = -0.00333E_n(\text{keV}) + 4.725(b)$, derived from fitting the ENDF/B-IV (PE74) carbon total cross section from 12.5 to 110 keV. The remaining cross section, after subtraction, was attributed to fluorine, and between resonances was in excellent agreement with the fluorine cross section obtained from the thick sample.

A neutron monitor was used to normalize the sample-in and sample-out data to the same neutron source intensity. The monitor is a ^{235}U fission chamber which views the neutron target; thus its output is proportional to the total neutron output of the ORELA target.

The alternation of sample in and out of the beam was under control of the data-taking programs. A typical cycle time was about thirty

minutes, so many cycles were included in the measurements. Total beam time for the data in the report was 240 hours.

Neutron energies are determined by the time-of-flight method. The start signal for the time digitizer system is taken from a bare phototube placed near the linac target to view the gamma flash resulting from the electron burst. Stop pulses for the digitizer are neutron events in the remote detector. The gamma flash is also observed at the remote detector and provides a fiducial time for determining neutron energies. However, since the flash is so intense, its centroid is measured in a separate experiment with extra lead filters to reduce the counting rate. For the actual transmission measurements, the detector is gated off until the gamma flash is over. After each detected event, the system is dead for 1.104 μsec while the signal is processed, and then is alive again awaiting other neutrons or the end of the detector gate period for that burst. On the average, two neutrons were detected per burst for the 200-m measurement, and 5 neutrons per burst for the 80-m measurement.

The width of the time-of-flight channels is adjusted with the data acquisition program so as to have at least three channels per resolution width over the neutron energy range of interest in the experiment. This scheme minimizes the number of channels used for an experiment by crunching neutron energy regions where data may not be required into a few wide channels. The measurements reported in this paper were performed using 35,000 to 50,000 channels varying in width from 1 ns to 1000 μsec , the wider bins being used at long flight times to determine the room background.

DATA PROCESSING AND REDUCTION

Since the transmission measurements result in hundreds of thousands of channels of data, computer processing of the data is an obvious requirement. At the end of an experiment, the data are converted to a standardized binary representation of the time-of-flight spectra. Corrections are then made to the observed counts in each channel for dead-time losses and background effects. The spectra are then converted from time channels to energy, and the cross sections obtained from the ratio of sample-in to sample-out counts properly normalized to the source neutron monitor. Depending on the experiment, this results in a tabulation of 25,000 to 50,000 energies and cross sections. We then employ an interactive computer program which allows selective averaging of the data to reduce the number of points while preserving the resonant structure. In the following sections we discuss the various corrections applied to the data and estimates of their associated errors.

Deadtime Corrections

Counting losses occur because the data acquisition system will not accept counts for 1.104 μ sec following each valid stop. For each channel we calculate the probability for loss of counts by summing the counts stored in the previous 1.104 μ sec and dividing by the total number of bursts for the measurement. This gives the probability that the system accepted a count during this interval and therefore was dead at the time of the channel under consideration. This procedure implies a constant counting rate for the duration of the run, which from previous experience is a good approximation. The largest deadtime correction occurred at short times and was less than 15%.

BACKGROUND SUBTRACTION FOR THE NE-110 DETECTOR

Nearly all of the backgrounds associated with the NE-110 detector result from gamma rays. As described below, four distinct background components are identified and removed. They are: 1) constant room background, 2) 2.2-MeV gamma rays from hydrogen capture in the water moderator of the target, 3) 478-keV gamma rays from the $^{10}\text{B}(n,\alpha)$ reaction with the boron in the Pyrex face of the photomultiplier, and 4) very small pulses at short times produced via some indirect process by ~ 0.5 -MeV gamma rays from the source.

To aid in background determination, we actually record four spectra for the NE-110 detector. Each spectrum is characterized by a different lower and upper cutoff on the pulse height. The lower level of bias window one is just above the noise background and extends to about 150 keV proton recoil energy. Gate two covers from 150 to 600 keV, gate three from 600 keV to 2 MeV, and gate four covers from 2 MeV up to 40-50 MeV. The corresponding neutron energy regions are not well defined since the recoiling protons have a broad energy distribution and the pulse-height resolution of the detector is rather poor. However, this technique serves to approximately isolate the different gamma-ray background components, since the 478-keV gamma rays fall mostly in bias window three and the 2.2-MeV gamma rays are mostly in bias window four. After removing the various background components from each spectrum, we then select from each of the four spectra regions based on maximum number of counts and the foreground-to-background ratio, and sum these regions to obtain the final transmission spectrum.

The simplest of the four corrections is for the nearly constant room background, which arises from various activities in the detector room and from long-lived radiations from the neutron source. It also includes some slow neutrons from the preceding burst. Its subtraction is straightforward; in each of the four gates we observe the residual count rate at long flight times, just before the arrival of the next neutron burst, and extrapolate this count rate into the next burst spectrum.

The second background component occurs because neutrons are captured by the hydrogen of the source moderator surrounding the Ta target to give 2.2-MeV gamma rays, with associated Compton scattered gamma rays, which decay exponentially following each burst. This component is not present for the Be block target. This background has been studied by eliminating the neutrons using a thick polyethylene filter. We find a $17.3 \pm 0.3 \mu\text{sec}$ half-life, consistent with $16.6 \pm 0.4 \mu\text{sec}$ from Monte Carlo calculations (KI72) of the neutron leakage from the source. For transmission measurements, this gamma-ray distribution, hardened by the uranium filter, causes backgrounds which appear mostly in the spectrum of bias window four. This exponentially decaying background is clearly visible after 10 μsec , following passage of the few fast neutrons through the polyethylene filter. Measurements with this filter, in addition to the uranium filter, show that about 35% of this background is distributed among the lower three bias spectra. All four spectra are corrected accordingly.

The third background component is produced by neutrons which slow down in the detector and its environs and are then captured via the $^{10}\text{B}(n, \alpha\gamma)$ reaction in the glass of the phototube. Use of a ^7Be source, which emits the same 478-keV gamma rays as this reaction, indicates that

about 70% of this background falls in bias window three and the remaining 30% is divided between bias windows one, two and four. In the actual transmission measurement, this background is observed only in bias window three at later times, following passage of the fast neutrons detected in that bias window. The spectrum in bias window three without a transmission sample is constant to $\pm 10\%$ from 500 to 50 keV and decreases slowly for energies below 50 keV. It is also expected to decrease above 500 keV, hence making a negligible contribution ($\sim 0.1\%$) to the spectrum from 550 keV to 7 MeV, the region which bias window three contributes to the final summed spectrum. Possible background structure resulting from insertion of the sample into the beam is minor because resonances are smeared by the ~ 2 μ sec leakage time for slow neutrons from the detector. This background component is corrected for by subtracting a fraction of the bias window three spectrum from each of the four bias windows, in proportion to the ratios obtained using the ^7Be source.

The fourth component of the background is more complicated and, although its intensity is known, its origin is not presently understood. Measurements with a polyethylene filter and with various absorbers show that it is created by source gamma rays with an average energy of about 700 keV. Inserting a uranium filter hardens the spectrum to about 1.5 MeV. However, pulses created by this radiation fall entirely in the spectra of bias windows one and two rather than in windows three and four, as they would if the pulses were created directly by the 1.5-MeV gamma rays incident on the NE-110 detector. Furthermore, for unknown reasons the background rises to a maximum intensity at 7.5 μ sec after the electron burst and then falls rapidly with a mixture of 1 to 5 μ sec

half-lives. In order to avoid a detailed subtraction of this complex background, we only use data from bias window one after 19 μsec (~ 0.6 MeV neutrons) and data from bias window two after 14 μsec (~ 1 MeV neutrons). At these times this component of the background is much less than 0.1% of the counts. The resulting loss in count rate is not serious since most of the counts from the faster neutrons occur in bias windows three and four.

Having made the appropriate background corrections to each of the four bias windows, we select a region from each bias window for summing into the final spectrum. Selections are made only from bias window one at low energies and from bias window four at high energies, with bias windows two and three contributing to the intermediate energies.

Figure 1 shows the final percentage background subtracted for the carbon compensator (essentially the open beam) using the water-moderated Ta target. The discontinuities in the curve result from the discrete sections of each bias window which contribute to the summed spectrum. The curve rises at low energies due to the decrease in neutron detection efficiency of the NE-110 detector, and rises at high energies due to the decrease in neutron flux relative to capture gamma rays from the water moderator. The figure shows that from 40 keV to 4 MeV the background correction is less than 1% and usually only $\sim 0.1\%$. A similar plot for the Be block target looks similar below about 4 MeV, but remains under 0.5% up to 20 MeV because there is no background due to capture by the water moderator.

BACKGROUND SUBTRACTION FOR ^6Li GLASS SCINTILLATION DETECTOR

For the measurements with the ^6Li glass scintillator, the 2.23-MeV gamma rays from neutron capture in the water moderator constitute the largest background for measurements above 10 keV and are $\sim 3\%$ of the open beam at 10 keV. The time-independent room background is a factor of ~ 30 times smaller at these higher energies. The room background is $\sim 0.2\%$ at 500 eV and rises to $\sim 4\%$ at 10 eV. The rapid increase at low energies is due to the decrease in neutron flux arising from the use of the ^{10}B $1/v$ overlap filter. Figure 2 shows these two background corrections in percent of the open beam versus neutron energy for the ^6Li detector from 10 eV to 100 keV. In this figure, curve 1 represents the background correction due to neutron capture in the water moderator, with a characteristic decay time of 18.2 μsec . In addition, a small component with a much longer decay time ($\sim 1000 \mu\text{sec}$) exists and its correction is shown in curve 3. Curve 2 is the correction for time-independent room background, and curve 4 is the sum of curves 1-3. These backgrounds were determined using 10 cm of polyethylene in the beam to remove all resonance energy neutrons. However, there is an additional background produced by neutrons in the beam which are scattered by the detector and return to the detector at later times ($\sim \mu\text{sec}$). The return time is a function of the energy of the incident neutron. This component of the background is determined by using "blacking-out" resonances. In the eV energy region six resonances of uranium from 20.8 to 190 eV were used and backgrounds of 0.2% to 0.5% were observed. In the energy region from 0.7 to 50 keV, "blacking-out" resonances in Bi, Fe and the thick CF_2 sample were used

and backgrounds of $\sim 1\%$ due to scattered neutrons were observed. The correction deduced by requiring that these "blacking-out" resonances have zero transmission was as large as 2% for the open beam.

NEUTRON ENERGY AND ENERGY RESOLUTION

The neutron energy is calculated relativistically for each channel from the path length and flight time. The path length is taken as the distance between centers of the 3-cm thick Ta source (7.6 cm Be block) and the 2-cm thick NE-110 detector, or the 1.3-cm thick ^6Li detector. The flight time is the sum of the elapsed clock time between the centroid of the gamma burst and the center of the given neutron channel, plus the gamma-ray flight time. For the data taken on the 200-m flight path, a systematic energy uncertainty of one part in 10^4 is assigned. Clock timing errors are negligible, but a ± 1 ns error is assigned since the centroid for the observed gamma flash may not be the centroid of the neutron burst. The distance between centers of the target and detector is known to ± 5 mm, but an error of ± 10 mm is assigned because the effective centers for neutron production and detection do not coincide exactly with the geometric centers.

An energy spread, typically 2-3 channels, arises due to the burst width Δt and the effective combined thickness of the source and detector, ΔL . If these effects are each Gaussian, their widths combine in quadrature to give the total energy spread

$$\left(\frac{\Delta E}{E}\right)^2 = \left(\frac{2\Delta L}{L}\right)^2 + \left(\frac{2\Delta t}{t}\right)^2$$

where L is the flight path length and t is the flight time for neutrons of energy E . This equation is linear in E

$$\left(\frac{\Delta E}{E}\right)^2 = a(1 + bE) \quad .$$

The parameters a and b could be calculated from the nominal ΔL and Δt of ~ 4 cm and 5 ns; however, a better procedure is to determine the resolution experimentally from the observed widths of very narrow resonances. Johnson and Fowler (J072) measured the transmission of neutrons through calcium with experimental conditions essentially identical to those in the present work. Using a single-level analysis of about thirty resonances below 1 MeV, they obtained

$$\left(\frac{\Delta E}{E}\right)^2 = (0.25 + 0.72E) \times 10^{-6}$$

where E is in MeV and ΔE is the FWHM for a Gaussian resolution function. These values of a and b correspond to values of $\Delta L = 5.0$ cm and $\Delta t = 8.5$ ns. This resolution function has been used here for the 200-m data taken with the Ta target.

For the 80-m data the systematic uncertainty in the neutron energy scale is $\sim 0.025\%$ due to an estimated uncertainty of ~ 1 cm in the average distance between the effective center of the neutron source and the site where the neutron reacts in the ${}^6\text{Li}$ glass detector. The energy resolution is determined mainly from the effective source and detector thicknesses. From analysis of measurements of narrow resonances this is ~ 3 cm. Below 20 keV this results in an energy resolution $\Delta E/E$ of 0.08% and

at 100 keV it increases to 0.11% due to a small contribution from the electron burst width.

RESULTS

As discussed in the previous sections, four separate measurements were made of the fluorine total cross section. The measurement at 80 m provides the low-energy data, the 200-m Be block target data provide the high energy data, and the thin and thick sample runs at 200 m with the water-moderated Ta target provided data at the intermediate energies. The final fluorine total cross section consisting of 2389 points is a composite of these measurements, developed on the basis of counting statistics and energy resolution. The components which make up this composite are listed in Table I.

Results of our measurement, compared with the present ENDF/B-IV evaluation, are shown in the next few figures.

The energy region from 2 eV to 10 keV is shown in Fig. 3. From thermal to 1 keV there were no previous measurements. The evaluation in the region is the sum of the free atom scattering cross section (MU73) and the capture cross section. From 1 to 10 keV the evaluation is based on data of Hibdon (HI64) and Newson (NE61). We find a constant value 3.64 ± 0.02 b from 4 eV to 10 keV from our measurement.

Figure 4 shows a comparison of our data with the evaluation from 10 to 120 keV. The evaluation is based on measurements of Hibdon (HI64), Whalen (WH67), Bilpuch (BI59) and Bockelman (B050). We observe somewhat larger peak cross sections for the 27- and 49-keV resonances, as well as

a larger cross section between the resonances. The first inelastic scattering channel opens at 116 keV.

The energy region from 120 to 500 keV is shown in Fig. 5. The evaluation is based on measurements of Bilpuch (BI59), Cabe et al. (CA65) and Whalen (WH67). We generally measure larger peak cross sections than are in the evaluation, and in addition observe a new resonance at 309 keV. The second inelastic channel opens at 207 keV.

Figure 6 is a comparison of our data with the evaluation from 500 keV to 1 MeV. In this region the evaluation is based on data of Whalen (WH67) from 500 to 650 keV, and data of Cabe et al. (CA65) from 650 keV to 1.0 MeV. Again, we observe larger peak cross sections and obtain a better description of the existing structure.

Figure 7 shows a comparison of our data with the evaluation from 1.0 to 2.2 MeV. From 1.0 to 1.1 MeV, the data of Cabe et al. were used while from 1.1 to 2.2 data of Wills (WI58) were used in the evaluation. We observe much more structure than is present in the evaluation, as well as a larger average cross section.

In Fig. 8 we show a comparison of our data and the ENDF/B evaluation from 2.2 to 6.0 MeV. The evaluation in this region is based mainly on the data of Foster and Glasgow (F071). The average agreement is good, with more detailed structure in the cross section obtained from the present work.

Finally, Fig. 9 is a comparison of our data with the evaluation from 6.0 to 20.0 MeV. Good agreement is observed over this energy region, with an average value $\sigma = 1.784 \pm 0.029$ b between 12 and 20 MeV.

COMMENT ON ERROR ASSIGNMENT

Accurate error assessment is one of the most difficult aspects of an experiment. Both statistical and systematic errors exist. The statistical errors are propagated simply from the observed counts and are those tabulated in the Appendix. Systematic errors in this work can arise from uncertainties in sample thickness ($< 0.5\%$), background removal, deadtime corrections, flux normalization, energy calibration and possible equipment malfunction. As is evident from this report, background sources have been studied in detail and corrections made for the various components. Figures 1 and 2 demonstrate that these are small corrections, usually less than 1%, with an uncertainty in the corrections of 20-30%. The deadtime corrections are well understood and are less than 15%, with 0.1% uncertainty in the correction due to fluctuations in beam power. The remaining sources of error are difficult to study. Perhaps the best way to determine an overall error is to note that we have actually done many experiments in this work. The data obtained in each bias level can be viewed as a (correlated) measurement, and we have used two different flight paths, two sample thicknesses, two different detectors and two different neutron sources in the various aspects of this work. Following application of appropriate corrections and conversion to cross sections, we find agreement between the various overlapping measurements to 2-3%. We thus assign a systematic uncertainty of $\pm 3\%$ to the cross sections.

SUMMARY

We have measured the transmission through Teflon and carbon, and derived cross-section values for fluorine from 5 eV to 20 MeV. A variety of experimental systems were used in order to define as well as possible the existing resonant structure. Background corrections were discussed in detail and found to be negligible for most of the energy region. Comparison of our data with the present ENDF/B-IV evaluation revealed a number of discrepancies, mostly due to poorer resolution of previous measurements.

The transmission and cross-section values have been sent to the National Neutron Cross Section Center at Brookhaven National Laboratory.

ACKNOWLEDGEMENTS

The authors thank H. A. Todd and the ORELA staff for operation of the accelerator. J. G. Craven wrote many of the computer programs used in this work.

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Table I. Summary of experimental information about the boundaries which were used to generate the final set of cross-section values. Neutron energies are in keV unless otherwise noted.

<u>Neutron Energy</u>		<u>Flight Path (m)</u>	<u>Sample Thickness n(atoms/b)</u>	<u>Target</u>	<u>Run</u>
<u>E_{min}</u>	<u>E_{max}</u>				
4.56 eV	25.99	80	0.1309	Ta	8079
26.15	28.32	200	0.01689	Ta	3030
28.47	45.15	80	0.1309	Ta	8079
45.53	53.19	200	0.01689	Ta	3030
57.37	81.88	200	0.1309	Ta	3005
82.70	107.8	200	0.01689	Ta	3030
108.6	309.2	200	0.1309	Be	8206
309.3	392.0	200	0.1309	Ta	3005
393.7	1270.2	200	0.1309	Be	8206
1271.6	1291.1	200	0.1309	Ta	3005
1291.9	21.8 MeV	200	0.1309	Be	8206

FIGURE 1

FIGURE 2

ORNL-DWG 76-11524

FIGURE 3

FIGURE 4

ORNL-DWG 76-11526

FIGURE 5

ORNL-DWG 76-11527

FIGURE 6

ORNL-DWG 76-11528

FIGURE 7

FIGURE 8

ORNL-DWG 76-11530

FIGURE 9

APPENDIX

This Appendix lists the 2389 values of the averaged transmission and cross sections. The neutron energies are in keV, and the cross sections and errors are given in barns. The errors given are statistical only, and do not include an estimated $\pm 3\%$ systematic uncertainty.

ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR
0.45575E-02	0.36464E-01	0.42240E-01	0.62167E-01	0.35311E-02	0.49117E-02	0.36469E-01	0.36652E-01	0.62155E-01	0.32235E-02
0.53088E-02	0.36215E-01	0.35456E-01	0.62345E-01	0.29558E-02	0.57562E-02	0.36286E-01	0.32307E-01	0.62247E-01	0.26878E-02
0.62626E-02	0.36910E-01	0.29529E-01	0.61726E-01	0.24317E-02	0.68338E-02	0.36272E-01	0.30982E-01	0.62246E-01	0.25818E-02
0.71668E-02	0.37258E-01	0.50743E-01	0.61562E-01	0.42233E-02	0.73347E-02	0.35954E-01	0.49391E-01	0.62583E-01	0.41768E-02
0.75086E-02	0.36620E-01	0.88364E-01	0.61202E-01	0.45057E-02	0.76888E-02	0.36659E-01	0.47460E-01	0.62007E-01	0.39711E-02
0.78568E-02	0.36688E-01	0.46365E-01	0.61832E-01	0.38664E-02	0.80692E-02	0.36670E-01	0.45287E-01	0.62029E-01	0.37868E-02
0.82701E-02	0.36382E-01	0.84252E-01	0.62270E-01	0.37107E-02	0.84785E-02	0.36182E-01	0.43223E-01	0.62353E-01	0.36266E-02
0.86950E-02	0.36675E-01	0.42268E-01	0.61958E-01	0.35220E-02	0.85198E-02	0.36648E-01	0.41298E-01	0.61976E-01	0.34407E-02
0.91535E-02	0.37010E-01	0.40335E-01	0.61676E-01	0.33393E-02	0.93965E-02	0.36290E-01	0.39455E-01	0.62269E-01	0.32987E-02
0.96493E-02	0.36687E-01	0.38385E-01	0.61948E-01	0.31906E-02	0.99124E-02	0.36271E-01	0.37684E-01	0.62277E-01	0.31472E-02
0.10186E-01	0.36900E-01	0.36697E-01	0.61758E-01	0.30375E-02	0.10472E-01	0.36790E-01	0.35232E-01	0.61844E-01	0.29673E-02
0.10770E-01	0.36429E-01	0.35015E-01	0.62152E-01	0.29139E-02	0.11080E-01	0.35177E-01	0.34119E-01	0.61365E-01	0.28837E-02
0.11405E-01	0.36850E-01	0.33434E-01	0.61775E-01	0.27625E-02	0.11743E-01	0.36403E-01	0.32605E-01	0.62147E-01	0.27051E-02
0.12097E-01	0.36360E-01	0.31886E-01	0.62186E-01	0.26495E-02	0.12468E-01	0.36326E-01	0.31107E-01	0.62207E-01	0.25844E-02
0.12855E-01	0.36305E-01	0.30356E-01	0.62223E-01	0.25215E-02	0.13261E-01	0.36563E-01	0.29603E-01	0.61998E-01	0.24848E-02
0.13686E-01	0.36500E-01	0.28945E-01	0.62042E-01	0.23950E-02	0.14133E-01	0.36504E-01	0.28242E-01	0.62048E-01	0.23359E-02
0.14601E-01	0.36925E-01	0.27587E-01	0.61709E-01	0.22683E-02	0.15093E-01	0.36465E-01	0.26897E-01	0.62086E-01	0.22242E-02
0.15610E-01	0.36412E-01	0.26252E-01	0.62115E-01	0.21710E-02	0.16155E-01	0.36024E-01	0.25592E-01	0.62425E-01	0.21261E-02
0.16728E-01	0.36751E-01	0.24981E-01	0.61841E-01	0.20550E-02	0.17333E-01	0.36533E-01	0.24384E-01	0.62014E-01	0.20178E-02
0.17971E-01	0.36345E-01	0.23757E-01	0.62166E-01	0.19631E-02	0.18644E-01	0.36711E-01	0.23242E-01	0.61958E-01	0.19090E-02
0.19376E-01	0.36523E-01	0.22648E-01	0.62015E-01	0.18655E-02	0.20111E-01	0.36351E-01	0.22039E-01	0.62160E-01	0.18190E-02
0.20910E-01	0.36589E-01	0.21458E-01	0.61999E-01	0.17692E-02	0.21757E-01	0.36826E-01	0.20942E-01	0.61768E-01	0.17168E-02
0.22657E-01	0.36400E-01	0.20413E-01	0.62078E-01	0.16808E-02	0.23614E-01	0.36790E-01	0.19892E-01	0.61797E-01	0.16300E-02
0.24633E-01	0.36263E-01	0.19379E-01	0.62219E-01	0.15983E-02	0.25270E-01	0.36587E-01	0.18885E-01	0.61953E-01	0.15508E-02
0.26880E-01	0.36374E-01	0.18400E-01	0.62128E-01	0.15143E-02	0.28120E-01	0.36187E-01	0.17926E-01	0.62283E-01	0.14786E-02
0.29448E-01	0.36198E-01	0.17473E-01	0.62272E-01	0.14406E-02	0.30873E-01	0.36668E-01	0.17009E-01	0.61890E-01	0.13932E-02
0.32403E-01	0.36537E-01	0.16557E-01	0.61993E-01	0.13581E-02	0.34050E-01	0.36890E-01	0.16121E-01	0.61713E-01	0.13159E-02
0.35826E-01	0.36398E-01	0.15690E-01	0.62103E-01	0.12866E-02	0.37745E-01	0.36623E-01	0.15268E-01	0.61922E-01	0.12499E-02
0.39821E-01	0.36165E-01	0.14450E-01	0.62294E-01	0.12227E-02	0.42075E-01	0.36483E-01	0.14442E-01	0.62035E-01	0.11838E-02
0.44524E-01	0.36413E-01	0.14044E-01	0.62092E-01	0.11520E-02	0.47195E-01	0.36232E-01	0.13674E-01	0.62240E-01	0.11240E-02
0.50113E-01	0.36366E-01	0.13287E-01	0.62128E-01	0.10900E-02	0.53310E-01	0.36454E-01	0.12929E-01	0.62053E-01	0.10590E-02
0.56623E-01	0.36614E-01	0.12560E-01	0.61925E-01	0.10265E-02	0.60695E-01	0.36240E-01	0.12198E-01	0.62229E-01	0.10012E-02
0.64977E-01	0.36406E-01	0.11856E-01	0.62092E-01	0.97114E-03	0.69729E-01	0.36459E-01	0.11514E-01	0.62049E-01	0.94220E-03
0.75022E-01	0.36404E-01	0.11167E-01	0.62094E-01	0.91434E-03	0.69940E-01	0.36611E-01	0.10847E-01	0.61925E-01	0.8559E-03
0.87588E-01	0.36377E-01	0.10522E-01	0.62121E-01	0.86150E-03	0.72248E-01	0.36120E-01	0.20516E-01	0.62345E-01	0.65967E-02
0.94163E-01	0.36070E-01	0.20377E-01	0.62379E-01	0.68595E-02	0.96159E-01	0.36167E-01	0.20222E-01	0.62299E-01	0.61099E-02
0.98220E-01	0.36444E-01	0.20063E-01	0.62081E-01	0.65177E-02	0.10035E-01	0.36693E-01	0.19884E-01	0.61875E-01	0.61313E-02
0.10254E-01	0.36359E-01	0.19759E-01	0.62144E-01	0.62811E-02	0.10482E-01	0.36083E-01	0.19585E-01	0.62369E-01	0.61949E-02
0.10716E-01	0.36360E-01	0.19435E-01	0.62147E-01	0.61011E-02	0.10959E-01	0.36513E-01	0.19285E-01	0.62022E-01	0.61584E-02
0.11210E-01	0.36143E-01	0.19146E-01	0.62323E-01	0.58140E-02	0.11469E-01	0.36388E-01	0.18993E-01	0.62123E-01	0.61563E-02
0.11738E-01	0.36583E-01	0.18822E-01	0.61960E-01	0.54533E-02	0.12017E-01	0.36573E-01	0.18675E-01	0.61974E-01	0.61533E-02
0.12305E-01	0.36417E-01	0.18517E-01	0.62100E-01	0.52340E-02	0.12604E-01	0.36532E-01	0.18313E-01	0.62001E-01	0.61504E-02
0.12914E-01	0.36750E-01	0.18161E-01	0.61823E-01	0.48771E-02	0.13235E-01	0.36377E-01	0.17991E-01	0.62127E-01	0.61480E-02
0.13569E-01	0.36287E-01	0.17876E-01	0.62203E-01	0.47252E-02	0.13916E-01	0.36193E-01	0.17724E-01	0.62280E-01	0.61461E-02
0.14275E-01	0.36319E-01	0.17628E-01	0.62173E-01	0.45111E-02	0.14649E-01	0.36480E-01	0.17493E-01	0.62043E-01	0.61439E-02
0.15038E-01	0.36715E-01	0.17380E-01	0.61854E-01	0.44232E-02	0.15443E-01	0.36339E-01	0.17230E-01	0.62154E-01	0.61475E-02
0.15864E-01	0.36202E-01	0.17092E-01	0.62271E-01	0.43088E-02	0.16303E-01	0.36365E-01	0.16965E-01	0.62138E-01	0.61395E-02
0.16760E-01	0.36336E-01	0.16817E-01	0.62165E-01	0.41340E-02	0.17236E-01	0.36297E-01	0.16684E-01	0.62193E-01	0.61373E-02
0.17734E-01	0.36279E-01	0.16556E-01	0.62104E-01	0.39626E-02	0.18253E-01	0.36563E-01	0.16435E-01	0.61976E-01	0.61347E-02
0.18795E-01	0.36276E-01	0.16285E-01	0.62206E-01	0.38402E-02	0.19361E-01	0.36632E-01	0.16154E-01	0.61918E-01	0.61323E-02
0.19954E-01	0.36393E-01	0.16007E-01	0.62112E-01	0.37151E-02	0.20574E-01	0.36331E-01	0.15874E-01	0.62160E-01	0.61305E-02
0.21224E-01	0.36449E-01	0.15738E-01	0.62066E-01	0.35918E-02	0.21905E-01	0.36092E-01	0.15611E-01	0.62358E-01	0.61287E-02
0.22619E-01	0.36635E-01	0.15507E-01	0.61913E-01	0.34694E-02	0.23369E-01	0.36451E-01	0.15356E-01	0.62059E-01	0.61260E-02
0.24157E-01	0.36372E-01	0.15202E-01	0.62126E-01	0.33466E-02	0.24985E-01	0.36318E-01	0.15075E-01	0.62171E-01	0.612389E-02
0.25857E-01	0.36567E-01	0.14950E-01	0.61967E-01	0.32246E-02	0.26775E-01	0.36332E-01	0.14814E-01	0.62155E-01	0.612170E-02
0.27742E-01	0.36379E-01	0.14694E-01	0.62119E-01	0.31063E-02	0.28764E-01	0.36440E-01	0.14561E-01	0.62071E-01	0.611934E-02
0.29842E-01	0.36529E-01	0.14449E-01	0.61998E-01	0.29837E-02	0.30983E-01	0.36631E-01	0.14338E-01	0.61915E-01	0.611730E-02
0.32190E-01	0.36393E-01	0.14286E-01	0.62110E-01	0.28744E-02	0.33469E-01	0.36386E-01	0.14366E-01	0.62115E-01	0.611751E-02
0.34825E-01	0.36392E-01	0.14107E-01	0.62107E-01	0.27755E-02	0.36266E-01	0.36370E-01	0.13827E-01	0.62124E-01	0.611346E-02
0.37799E-01	0.36452E-01	0.13677E-01	0.62058E-01	0.26810E-02	0.39430E-01	0.36191E-01	0.13532E-01	0.62271E-01	0.611128E-02
0.41170E-01	0.36439E-01	0.13386E-01	0.62070E-01	0.25971E-02	0.42965E-01	0.36363E-01	0.13253E-01	0.62133E-01	0.610939E-02
0.44144E-01	0.36626E-01	0.12869E-01	0.61924E-01	0.25267E-02	0.45159E-01	0.36554E-01	0.13156E-01	0.62198E-01	0.610809E-02
0.46209E-01	0.36520E-01	0.12639E-01	0.62007E-01	0.24517E-02	0.47968E-01	0.36329E-01	0.13019E-01	0.62139E-01	0.610699E-02
0.48422E-01	0.36311E-01	0.12466E-01	0.62164E-01	0.23707E-02	0.49588E-01	0.36531E-01	0.12812E-01	0.61998E-01	0.610486E-02
0.50797E-01	0.36357E-01	0.12305E-01	0.62142E-01	0.22857E-02	0.52051E-01	0.36704E-01	0.127958E-01	0.61859E-01	0.610412E-02
0.53352E-01	0.36430E-01	0.12149E-01	0.62082E-01	0.22054E-02	0.54702E-01	0.36352E-01	0.12771E-01	0.62146E-01	0.610462E-02
0.56105E-01	0.36407E-01	0.12004E-01	0.62053E-01	0.21291E-02	0.57561E-01	0.36595E-01	0.12739E-01	0.62194E-01	0.6104552E-02
0.59076E-01	0.36493E-01	0.11850E-01	0.62034E-01	0.20537E-02	0.60651E-01	0.36238E-01	0.12709E-01	0.62244E-01	0.6104345E-02
0.62289E-01	0.36849E-01	0.11732E-01	0.61743E-01	0.19746E-02	0.63995E-01	0.36562E-01	0.12721E-01	0.61975E-01	0.6104120E-02
0.65773E-01	0.36258E-01	0.11634E-01	0.62223E-01	0.18911E-02	0.67625E-01	0.36509E-01	0.12704E-01	0.62017E-01	0.6103994E-02
0.69556E-01	0.36714E-01	0.11546E-01	0.61851E-01	0.18171E-02	0.71572E-01	0.36539E-01	0.12686E-01	0.61990E-01	0.6103832E-02
0.73676E-01	0.36528E-01	0.11475E-01	0.62001E-01	0.17464E-02	0.75875E-01	0.36235E-01	0.12664E-01	0.62238E-01	0.6103728E-02
0.78173E-01	0.36092E-01	0.11357E-01	0.62355E-01	0.16788E-02	0.80577E-01	0.36591E-01	0.12651E-01	0.61951E-01	0.610353E-02
0.83095E-01	0.36360E-01	0.11255E-01	0.62137E-01	0.16078E-02	0.85732E-01	0.35994E-01	0.12634E-01	0.62437E-01	0.6103475E-02
0.88496									

ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR
0.11221E 02	0.35820E 01	0.22217E-01	0.62590E 00	0.18952E-02	0.11548E 02	0.36099E 01	0.22072E-01	0.62364E 00	0.16277E-02
0.11889E 02	0.36408E 01	0.21974E-01	0.62116E 00	0.18213E-02	0.12245E 02	0.36077E 01	0.21940E-01	0.62383E 00	0.16172E-02
0.12618E 02	0.36206E 01	0.21676E-01	0.62275E 00	0.17919E-02	0.13008E 02	0.36130E 01	0.21846E-01	0.62335E 00	0.16080E-02
0.13416E 02	0.36798E 01	0.21713E-01	0.61795E 00	0.17812E-02	0.13843E 02	0.36175E 01	0.22000E-01	0.62307E 00	0.16201E-02
0.14168E 02	0.36142E 01	0.30343E-01	0.62346E 00	0.25250E-02	0.14398E 02	0.36476E 01	0.30139E-01	0.62082E 00	0.24972E-02
0.14633E 02	0.36969E 01	0.30087E-01	0.61688E 00	0.24770E-02	0.14874E 02	0.36687E 01	0.30002E-01	0.61917E 00	0.24791E-02
0.15121E 02	0.36132E 01	0.29910E-01	0.62370E 00	0.24895E-02	0.15374E 02	0.35869E 01	0.29717E-01	0.62580E 00	0.24814E-02
0.15633E 02	0.36244E 01	0.29669E-01	0.62273E 00	0.24649E-02	0.15899E 02	0.36196E 01	0.29639E-01	0.62311E 00	0.24641E-02
0.16172E 02	0.36396E 01	0.29554E-01	0.62133E 00	0.24499E-02	0.16452E 02	0.36568E 01	0.29571E-01	0.61990E 00	0.24457E-02
0.16740E 02	0.36063E 01	0.30868E-01	0.62440E 00	0.25740E-02	0.17035E 02	0.36555E 01	0.29380E-01	0.62010E 00	0.24300E-02
0.17337E 02	0.36326E 01	0.29220E-01	0.62199E 00	0.24242E-02	0.17648E 02	0.35997E 01	0.29190E-01	0.62456E 00	0.24316E-02
0.17968E 02	0.36290E 01	0.29111E-01	0.62225E 00	0.24162E-02	0.18296E 02	0.36573E 01	0.28958E-01	0.62008E 00	0.23948E-02
0.18633E 02	0.36753E 01	0.28978E-01	0.61852E 00	0.23905E-02	0.18980E 02	0.35834E 01	0.28905E-01	0.62611E 00	0.24135E-02
0.19336E 02	0.36683E 01	0.28831E-01	0.61913E 00	0.23803E-02	0.19703E 02	0.36667E 01	0.28823E-01	0.61940E 00	0.23806E-02
0.20080E 02	0.37194E 01	0.28669E-01	0.61491E 00	0.23061E-02	0.20375E 02	0.36655E 01	0.39442E-01	0.61943E 00	0.32571E-02
0.20582E 02	0.37250E 01	0.39230E-01	0.61461E 00	0.32147E-02	0.20793E 02	0.35913E 01	0.39117E-01	0.62538E 00	0.32614E-02
0.21007E 02	0.36740E 01	0.39148E-01	0.61864E 00	0.32289E-02	0.21224E 02	0.36793E 01	0.39136E-01	0.61819E 00	0.32253E-02
0.21444E 02	0.37267E 01	0.38870E-01	0.61430E 00	0.31826E-02	0.21658E 02	0.36982E 01	0.38491E-01	0.61653E 00	0.31629E-02
0.21896E 02	0.36321E 01	0.38762E-01	0.62187E 00	0.32132E-02	0.22127E 02	0.37117E 01	0.38865E-01	0.61557E 00	0.31857E-02
0.22361E 02	0.37035E 01	0.38746E-01	0.61645E 00	0.31835E-02	0.22600E 02	0.37019E 01	0.38585E-01	0.61635E 00	0.31657E-02
0.22842E 02	0.37489E 01	0.38781E-01	0.61249E 00	0.31658E-02	0.23088E 02	0.37944E 01	0.38704E-01	0.60896E 00	0.31415E-02
0.23339E 02	0.37650E 01	0.38617E-01	0.61131E 00	0.31465E-02	0.23593E 02	0.38524E 01	0.38683E-01	0.60420E 00	0.31152E-02
0.23851E 02	0.38563E 01	0.38679E-01	0.60395E 00	0.31136E-02	0.24114E 02	0.40282E 01	0.38921E-01	0.59069E 00	0.30645E-02
0.24381E 02	0.39588E 01	0.38825E-01	0.59601E 00	0.30844E-02	0.24653E 02	0.41435E 01	0.38728E-01	0.58175E 00	0.30031E-02
0.24846E 02	0.43176E 01	0.61444E-01	0.56946E 00	0.46635E-02	0.24957E 02	0.44488E 01	0.61714E-01	0.55867E 00	0.45963E-02
0.25069E 02	0.44123E 01	0.62105E-01	0.56158E 00	0.46499E-02	0.25181E 02	0.45592E 01	0.62495E-01	0.55103E 00	0.45920E-02
0.25295E 02	0.46136E 01	0.63733E-01	0.54700E 00	0.46499E-02	0.25409E 02	0.48027E 01	0.70847E-01	0.53363E 00	0.50517E-02
0.25524E 02	0.52034E 01	0.64376E-01	0.50641E 00	0.43503E-02	0.25640E 02	0.52860E 01	0.63939E-01	0.50090E 00	0.42718E-02
0.25757E 02	0.57248E 01	0.64725E-01	0.47282E 00	0.46832E-02	0.25876E 02	0.61031E 01	0.65752E-01	0.45034E 00	0.39572E-02
0.25992E 02	0.60208E 01	0.67551E-01	0.40895E 00	0.37098E-02	0.26151E 02	0.78606E 01	0.14359E 01	0.87571E 00	0.12123E-01
0.26198E 02	0.11369E 02	0.16146E 01	0.82534E 00	0.22501E-01	0.26245E 02	0.87161E 01	0.16930E 01	0.86315E 00	0.24673E-01
0.26293E 02	0.91728E 01	0.14783E 01	0.85652E 00	0.21380E-01	0.26340E 02	0.10079E 02	0.14192E 01	0.84351E 00	0.20217E-01
0.26388E 02	0.13333E 02	0.17139E 01	0.79841E 00	0.23105E-01	0.26436E 02	0.12839E 02	0.14901E 01	0.80511E 00	0.20256E-01
0.26484E 02	0.14779E 02	0.14113E 01	0.77916E 00	0.18567E-01	0.26532E 02	0.14487E 02	0.16269E 01	0.78301E 00	0.21509E-01
0.26580E 02	0.18257E 02	0.15341E 01	0.73472E 00	0.19032E-01	0.26628E 02	0.24218E 02	0.17405E 01	0.66436E 00	0.19526E-01
0.26677E 02	0.26758E 02	0.15557E 01	0.63647E 00	0.16719E-01	0.26708E 02	0.31440E 02	0.32786E 01	0.58809E 00	0.32556E-01
0.26723E 02	0.35791E 02	0.29673E 01	0.54644E 00	0.32739E-01	0.26737E 02	0.33866E 02	0.29736E 01	0.56444E 00	0.28343E-01
0.26752E 02	0.29462E 02	0.32306E 01	0.60807E 00	0.33170E-01	0.26767E 02	0.42211E 02	0.33278E 01	0.49030E 00	0.27550E-01
0.26781E 02	0.41479E 02	0.28189E 01	0.49640E 00	0.23627E-01	0.26796E 02	0.45405E 02	0.50026E 01	0.46456E 00	0.23552E-01
0.26810E 02	0.48387E 02	0.31644E 01	0.44204E 00	0.23619E-01	0.26825E 02	0.54128E 02	0.34170E 01	0.40094E 00	0.23132E-01
0.26840E 02	0.56085E 02	0.33142E 01	0.38790E 00	0.21707E-01	0.26855E 02	0.61991E 02	0.50234E 01	0.35109E 00	0.17923E-01
0.26869E 02	0.67867E 02	0.29297E 01	0.31792E 00	0.15727E-01	0.26884E 02	0.65314E 02	0.63708E 01	0.33193E 00	0.20574E-01
0.26899E 02	0.69719E 02	0.35554E 01	0.30814E 00	0.24912E-01	0.26938E 02	0.83347E 02	0.38898E 01	0.24480E 00	0.16078E-01
0.26928E 02	0.60090E 02	0.57555E 01	0.20419E 00	0.19809E-01	0.26943E 02	0.86174E 02	0.60575E 01	0.23339E 00	0.38071E-01
0.26958E 02	0.10050E 03	0.50751E 01	0.18323E 00	0.15702E-01	0.26973E 02	0.10697E 02	0.47512E 01	0.16428E 00	0.13180E-01
0.26987E 02	0.11294E 03	0.52393E 01	0.14853E 00	0.13140E-01	0.27002E 02	0.11287E 03	0.64251E 01	0.14870E 00	0.16133E-01
0.27017E 02	0.13503E 03	0.63876E 01	0.10228E 00	0.11031E-01	0.27032E 02	0.13241E 03	0.64194E 01	0.10692E 00	0.11589E-01
0.27047E 02	0.13558E 03	0.60327E 01	0.10133E 00	0.10322E-01	0.27062E 02	0.12833E 03	0.53359E 01	0.11455E 00	0.10320E-01
0.27076E 02	0.13373E 03	0.52741E 01	0.10456E 00	0.93114E-02	0.27091E 02	0.12534E 03	0.57111E 01	0.12047E 00	0.11671E-01
0.27106E 02	0.12031E 03	0.48033E 01	0.13114E 00	0.10636E-01	0.27121E 02	0.11805E 03	0.48766E 01	0.13624E 00	0.11218E-01
0.27136E 02	0.10078E 03	0.69709E 01	0.18237E 00	0.21066E-01	0.27151E 02	0.10041E 03	0.54836E 01	0.18353E 00	0.16992E-01
0.27166E 02	0.88311E 02	0.42424E 01	0.22512E 00	0.16126E-01	0.27181E 02	0.83809E 02	0.56962E 01	0.24290E 00	0.23362E-01
0.27196E 02	0.82778E 02	0.46001E 01	0.24716E 00	0.19198E-01	0.27211E 02	0.81268E 02	0.48011E 01	0.25355E 00	0.20554E-01
0.27226E 02	0.64793E 02	0.47848E 01	0.33486E 00	0.27054E-01	0.27241E 02	0.72175E 02	0.39106E 01	0.29562E 00	0.19520E-01
0.27256E 02	0.59981E 02	0.35821E 01	0.36321E 00	0.21968E-01	0.27271E 02	0.53609E 02	0.28493E 01	0.40446E 00	0.26288E-01
0.27286E 02	0.54185E 02	0.32856E 01	0.40055E 00	0.22222E-01	0.27301E 02	0.47930E 02	0.30521E 01	0.44517E 00	0.22942E-01
0.27316E 02	0.43472E 02	0.28937E 01	0.47997E 00	0.23652E-01	0.27331E 02	0.39968E 02	0.26901E 01	0.50923E 00	0.23131E-01
0.27346E 02	0.37125E 02	0.25601E 01	0.53427E 00	0.23096E-01	0.27361E 02	0.41271E 02	0.31668E 01	0.49859E 00	0.21663E-01
0.27377E 02	0.31180E 02	0.28862E 01	0.33107E 00	0.26551E-01	0.27392E 02	0.29561E 02	0.28423E 01	0.60705E 00	0.29133E-01
0.27407E 02	0.30870E 02	0.27606E 01	0.59378E 00	0.27678E-01	0.27422E 02	0.32397E 02	0.24723E 01	0.57867E 00	0.24156E-01
0.27437E 02	0.19257E 02	0.32072E 01	0.72244E 00	0.35121E-01	0.27452E 02	0.20225E 02	0.25486E 01	0.71070E 00	0.30563E-01
0.27468E 02	0.22863E 02	0.25251E 01	0.67974E 00	0.28981E-01	0.27483E 02	0.23248E 02	0.29630E 01	0.67534E 00	0.33787E-01
0.27514E 02	0.19683E 02	0.16145E 01	0.71724E 00	0.19552E-01	0.27513E 02	0.18129E 02	0.13973E 01	0.73631E 00	0.17372E-01
0.27618E 02	0.14655E 02	0.16084E 01	0.78079E 00	0.21205E-01	0.27609E 02	0.12972E 02	0.12867E 01	0.80129E 00	0.17453E-01
0.27720E 02	0.14743E 02	0.13488E 01	0.77963E 00	0.17755E-01	0.27722E 02	0.11526E 02	0.12385E 01	0.82315E 00	0.17213E-01
0.27823E 02	0.73283E 01	0.18871E 01	0.88361E 00	0.28155E-01	0.27875E 02	0.11162E 02	0.15070E 01	0.82823E 00	0.21075E-01
0.27927E 02	0.85938E 01	0.13316E 01	0.86493E 00	0.19447E-01	0.27979E 02	0.82057E 01	0.14011E 01	0.87062E 00	0.20596E-01
0.28031E 02	0.78804E 01	0.13683E 01	0.87541E 00	0.20225E-01	0.28110E 02	0.84928E 01	0.96122E 00	0.86641E 00	0.14062E-01
0.28215E 02	0.68555E 01	0.90093E 00	0.89069E 00	0.13549E-01	0.28321E 02	0.81142E 01	0.83416E 00	0.87196E 00	0.12221E-01
0.28469E 02	0.58662E 01	0.63675E-01	0.46419E 00	0.39428E-02	0.28605E 02	0.55887E 01	0.62829E-01	0.48151E 00	0.40340E-02
0.28742E 02	0.52392E 01	0.62163E-01	0.50387E 00	0.41761E-02	0.28816E 02	0.51801E 01	0.61685E 01	0.50782E 00	0.41757E-02
0.29020E 02	0.49622E 01	0.61541E-01	0.52263E 00	0.42876E-02	0.29161E 02	0.44771E 01	0.60949E-01	0.53345E 00	0.44333E-02
0.29303E 02	0.45608E 01	0.62748E-01	0.54501E 00	0.45095E-02	0.29485E 02	0.45089E 01	0.50176E-01	0.56558E 00	0.45180E-02
0.29588E 02	0.44041E 01	0.60599E-01	0.55617E 00	0.44915E-02	0.29842E 02	0.43277E 01	0.38013E-01	0.56794E 00	0.28673E-02
0.30210E 02	0.42852E 01	0.4							

ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR
0.48819E 02	0.45044E 02	0.13743E 01	0.46740E 00	0.10846E -01	0.48855E 02	0.46434E 02	0.13307E 01	0.45656E 00	0.10258E -01
0.48891E 02	0.45771E 02	0.13355E 01	0.46170E 00	0.10411E -01	0.48927E 02	0.47783E 02	0.12560E 01	0.44628E 00	0.94645E -02
0.48963E 02	0.46723E 02	0.11516E 01	0.45043E 00	0.87582E -02	0.48999E 02	0.45705E 02	0.15829E 01	0.46221E 00	0.12353E -01
0.49036E 02	0.48034E 02	0.15082E 01	0.44439E 00	0.11317E -01	0.49072E 02	0.48609E 02	0.12990E 01	0.44409E 00	0.96531E -02
0.49108E 02	0.47005E 02	0.13333E 01	0.45217E 00	0.10157E -01	0.49145E 02	0.45545E 02	0.13395E 01	0.46347E 00	0.10043E -01
0.49181E 02	0.45491E 02	0.13010E 01	0.46389E 00	0.10190E -01	0.49218E 02	0.46206E 02	0.12923E 01	0.45832E 00	0.10001E -01
0.49254E 02	0.42175E 02	0.14474E 01	0.49060E 00	0.11990E -01	0.49291E 02	0.43076E 02	0.13518E 01	0.48319E 00	0.11029E -01
0.49327E 02	0.40896E 02	0.13057E 01	0.50131E 00	0.11086E -01	0.49364E 02	0.41790E 02	0.13368E 01	0.49380E 00	0.11146E -01
0.49400E 02	0.41029E 02	0.12206E 01	0.50018E 00	0.10309E -01	0.49437E 02	0.37811E 02	0.12146E 01	0.52812E 00	0.10831E -01
0.49474E 02	0.36914E 02	0.11861E 01	0.53618E 00	0.10738E -01	0.49511E 02	0.36641E 02	0.11798E 01	0.53865E 00	0.10721E -01
0.49548E 02	0.34709E 02	0.11009E 01	0.55652E 00	0.10345E -01	0.49584E 02	0.36293E 02	0.13617E 01	0.54182E 00	0.12458E -01
0.49621E 02	0.31006E 02	0.12473E 01	0.59242E 00	0.12477E -01	0.49658E 02	0.32464E 02	0.12070E 01	0.57802E 00	0.11780E -01
0.49695E 02	0.29948E 02	0.12398E 01	0.60310E 00	0.12625E -01	0.49732E 02	0.29041E 02	0.11361E 01	0.61241E 00	0.11708E -01
0.49769E 02	0.24444E 02	0.11250E 01	0.66184E 00	0.12572E -01	0.49806E 02	0.26359E 02	0.10553E 01	0.64078E 00	0.11418E -01
0.49844E 02	0.25905E 02	0.11190E 01	0.66571E 00	0.12200E -01	0.49881E 02	0.26283E 02	0.10447E 01	0.64160E 00	0.11317E -01
0.49918E 02	0.22620E 02	0.11121E 01	0.68253E 00	0.12816E -01	0.49955E 02	0.24100E 02	0.11116E 01	0.66569E 00	0.12495E -01
0.49993E 02	0.21043E 02	0.10904E 01	0.70096E 00	0.12968E -01	0.50030E 02	0.20099E 02	0.10056E 01	0.71221E 00	0.12093E -01
0.50067E 02	0.18552E 02	0.10957E 01	0.73107E 00	0.13526E -01	0.50105E 02	0.19393E 02	0.10352E 01	0.72076E 00	0.12555E -01
0.50142E 02	0.16562E 02	0.11306E 01	0.75605E 00	0.14434E -01	0.50180E 02	0.18474E 02	0.11477E 01	0.73204E 00	0.14186E -01
0.50217E 02	0.15075E 02	0.12108E 01	0.77527E 00	0.15845E -01	0.50255E 02	0.14377E 02	0.12372E 01	0.78446E 00	0.16368E -01
0.50293E 02	0.15509E 02	0.11072E 01	0.76962E 00	0.14388E -01	0.50330E 02	0.15715E 02	0.10062E 01	0.76694E 00	0.12031E -01
0.50368E 02	0.14444E 02	0.09863E 01	0.78358E 00	0.13050E -01	0.50406E 02	0.14126E 02	0.11298E 01	0.78780E 00	0.15028E -01
0.50444E 02	0.13776E 02	0.10608E 01	0.79246E 00	0.14144E -01	0.50482E 02	0.11747E 02	0.11819E 01	0.82008E 00	0.16366E -01
0.50520E 02	0.11742E 02	0.10761E 01	0.82015E 00	0.14902E -01	0.50558E 02	0.12435E 02	0.10717E 01	0.81062E 00	0.14668E -01
0.50596E 02	0.13315E 02	0.10137E 01	0.79866E 00	0.13670E -01	0.50634E 02	0.12033E 02	0.09801E 01	0.81614E 00	0.13753E -01
0.50672E 02	0.11420E 02	0.09381E 01	0.82463E 00	0.13062E -01	0.50710E 02	0.10116E 02	0.08438E 01	0.84298E 00	0.17741E -02
0.50882E 02	0.10829E 02	0.08227E 01	0.83290E 00	0.13520E -02	0.50786E 02	0.09520E 01	0.07376E 01	0.85150E 00	0.10606E -01
0.51139E 02	0.08502E 01	0.05831E 01	0.86627E 00	0.85304E -02	0.51268E 02	0.07656E 01	0.05811E 01	0.87873E 00	0.15089E -02
0.51397E 02	0.13374E 01	0.05366E 01	0.88348E 00	0.82592E -02	0.51577E 02	0.07516E 01	0.05691E 01	0.89226E 00	0.84566E -02
0.51658E 02	0.06604E 01	0.05633E 01	0.89448E 00	0.85096E -02	0.51789E 02	0.06247E 01	0.05416E 01	0.89988E 00	0.82303E -02
0.51920E 02	0.70752E 01	0.04478E 01	0.88740E 00	0.81621E -02	0.52052E 02	0.05329E 01	0.05356E 01	0.91404E 00	0.82636E -02
0.52165E 02	0.55599E 01	0.04895E 01	0.90978E 00	0.75208E -02	0.52318E 02	0.05995E 01	0.053902E 01	0.90372E 00	0.82252E -02
0.52451E 02	0.49699E 01	0.05264E 01	0.91951E 00	0.81741E -02	0.52585E 02	0.05667E 01	0.05169E 01	0.90873E 00	0.79327E -02
0.52720E 02	0.55568E 01	0.05244E 01	0.91044E 00	0.80617E -02	0.52923E 02	0.04712E 01	0.038815E 01	0.92352E 00	0.60526E -02
0.53195E 02	0.52772E 01	0.037683E 01	0.91475E 00	0.58203E -02	0.53373E 02	0.044750E 01	0.07654E 01	0.95733E 00	0.56100E -02
0.53649E 02	0.42746E 01	0.078770E -01	0.95724E 00	0.58951E -02	0.53926E 02	0.042350E 01	0.078933E -01	0.95751E 00	0.59426E -02
0.54206E 02	0.40464E 01	0.078921E -01	0.58971E 00	0.60959E -02	0.54489E 02	0.040191E 01	0.076291E -01	0.95915E 00	0.59015E -02
0.54733E 02	0.37445E 01	0.074274E -01	0.61301E 00	0.59635E -02	0.55060E 02	0.039293E 01	0.071721E -01	0.95983E 00	0.56174E -02
0.55348E 02	0.38074E 01	0.080175E -01	0.60838E 00	0.63818E -02	0.55640E 02	0.03668E 01	0.075650E -01	0.91901E 00	0.61325E -02
0.55933E 02	0.36630E 01	0.077158E -01	0.61941E 00	0.62512E -02	0.56229E 02	0.037456E 01	0.072025E -01	0.91780E 00	0.61770E -02
0.56527E 02	0.36237E 01	0.080007E -01	0.62309E 00	0.65161E -02	0.56828E 02	0.037127E 01	0.075004E -01	0.91558E 00	0.60414E -02
0.57131E 02	0.36690E 01	0.070322E -01	0.62099E 00	0.57624E -02	0.57744E 02	0.03625E 01	0.041070E -01	0.92270E 00	0.51807E -02
0.58682E 02	0.35961E 01	0.039272E -01	0.62516E 00	0.32167E -02	0.58644E 02	0.03592E 01	0.039463E 01	0.92531E 00	0.32285E -02
0.62674E 02	0.35860E 01	0.037608E -01	0.62912E 00	0.30802E -02	0.61639E 02	0.035248E 01	0.036086E -01	0.93086E 00	0.29747E -02
0.64825E 02	0.35695E 01	0.035903E -01	0.62759E 00	0.25568E -02	0.65783E 02	0.035958E 01	0.045145E -01	0.92523E 00	0.36946E -02
0.66369E 02	0.36327E 01	0.046834E -01	0.62243E 00	0.38152E -02	0.66944E 02	0.036583E 01	0.049008E -01	0.92009E 00	0.37944E -02
0.67526E 02	0.36282E 01	0.047349E -01	0.62260E 00	0.38573E -02	0.68116E 02	0.03660E 01	0.047562E -01	0.91989E 00	0.38580E -02
0.68714E 02	0.36945E 01	0.047155E -01	0.61735E 00	0.38066E -02	0.69320E 02	0.037145E 01	0.047321E -01	0.91551E 00	0.38123E -02
0.69934E 02	0.37691E 01	0.045234E -01	0.61133E 00	0.36184E -02	0.70555E 02	0.037686E 01	0.045765E -01	0.91137E 00	0.36616E -02
0.71186E 02	0.37911E 01	0.045396E -01	0.60948E 00	0.36214E -02	0.71825E 02	0.039040E 01	0.044756E -01	0.90060E 00	0.35177E -02
0.72472E 02	0.39010E 01	0.043876E -01	0.59761E 00	0.34318E -02	0.73128E 02	0.040079E 01	0.043791E -01	0.89894E 00	0.32776E -02
0.73794E 02	0.39979E 01	0.043315E -01	0.59309E 00	0.33607E -02	0.74468E 02	0.040479E 01	0.043600E -01	0.89824E 00	0.33608E -02
0.75152E 02	0.41761E 01	0.042141E -01	0.57949E 00	0.31959E -02	0.75845E 02	0.042275E 01	0.042357E -01	0.89756E 00	0.31916E -02
0.76547E 02	0.43160E 01	0.043917E -01	0.56910E 00	0.32698E -02	0.77260E 02	0.044244E 01	0.041768E -01	0.89691E 00	0.30665E -02
0.77982E 02	0.45459E 01	0.042691E -01	0.55211E 00	0.30856E -02	0.78755E 02	0.045812E 01	0.041055E -01	0.89658E 00	0.29047E -02
0.79333E 02	0.48030E 01	0.051245E -01	0.53523E 00	0.35872E -02	0.79832E 02	0.04858E 01	0.044125E -01	0.89293E 00	0.37734E -02
0.80338E 02	0.50097E 01	0.051906E -01	0.51097E 00	0.35284E -02	0.80848E 02	0.051309E 01	0.051196E -01	0.89133E 00	0.34257E -02
0.81362E 02	0.53091E 01	0.050126E -01	0.49960E 00	0.32774E -02	0.81882E 02	0.054071E 01	0.051183E -01	0.89137E 00	0.33024E -02
0.82697E 02	0.58966E 01	0.049609E 00	0.90523E 00	0.29973E -02	0.83363E 02	0.059790E 01	0.049036E 00	0.90397E 00	0.29056E -02
0.84037E 02	0.65376E 01	0.049033E 00	0.89549E 00	0.29943E -02	0.84719E 02	0.065279E 01	0.049244E 00	0.89563E 00	0.29102E -02
0.85410E 02	0.72068E 01	0.049167E 00	0.88543E 00	0.28656E -02	0.86109E 02	0.072227E 01	0.049297E 00	0.88519E 00	0.28842E -02
0.86817E 02	0.77813E 01	0.049385E 00	0.87688E 00	0.28701E -02	0.87534E 02	0.085549E 01	0.049222E 00	0.88550E 00	0.27360E -02
0.88259E 02	0.92688E 01	0.049907E 00	0.85513E 00	0.28744E -02	0.88994E 02	0.10164E 02	0.049501E 00	0.884230E 00	0.26881E -02
0.89738E 02	0.10970E 02	0.049910E 00	0.83092E 00	0.26531E -02	0.90491E 02	0.11903E 02	0.049767E 00	0.87193E 00	0.25918E -02
0.91254E 02	0.13012E 02	0.048889E 00	0.80275E 00	0.25604E -02	0.92026E 02	0.14425E 02	0.049536E 00	0.78383E 00	0.25533E -02
0.92808E 02	0.16170E 02	0.048292E 00	0.76107E 00	0.23506E -02	0.93600E 02	0.17756E 02	0.049719E 00	0.74096E 00	0.23419E -02
0.94403E 02	0.20191E 02	0.048853E 00	0.71111E 00	0.22638E -02	0.95216E 02	0.21139E 02	0.049944E 00	0.69982E 00	0.22444E -02
0.96039E 02	0.23018E 02	0.049011E 00	0.67797E 00	0.21763E -02	0.96873E 02	0.24267E 02	0.049155E 00	0.66381E 00	0.21470E -02
0.97718E 02	0.25316E 02	0.049777E 00	0.65217E 00	0.21778E -02	0.98574E 02	0.25532E 02	0.04978E 00	0.64979E 00	0.20247E -02
0.99441E 02	0.25304E 02	0.049433E 00	0.65230E 00	0.21404E -02	0.99745E 02	0.26862E 02	0.049502E 00	0.64950E 00	0.20247E -02
0.10212E 02	0.22060E 02	0.048936E 00	0.61771E 00	0.21939E -02	0.10211E 02	0.02086E 02	0.048839E 00	0.70302E 00	0.22362E -02
0.10303E 02	0.18331E 02	0.048676E 00	0.73380E 00	0.23129E -02	0.10395E 02	0.16725E 02	0.048320E 00	0.75197E 00	0.23237E -02
0.10489E 02	0.16111E 02	0.047938E 00	0.76312E 00	0.23113E -02	0.10585E 02	0.14073E 02	0.047834E 00	0.78850E 00	0.23744E -02
0.10681E 02	0.13303E 02	0.047301E 00	0.79882E 00	0.23336E -02	0.10779E 02	0			

ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR				
0.18103E	03	0.39268E	01	0.19400E-01	0.59825E-00	0.15188E-02	0.18211E	03	0.39052E	01	0.19049E-01	0.59995E-02	0.14954E-02
0.18319E	03	0.38976E	01	0.18842E-01	0.60051E	0.14808E-02	0.16429E	03	0.38998E	01	0.16723E-01	0.60035E-02	0.14710E-02
0.18540E	03	0.39553E	01	0.18832E-01	0.59601E	0.14689E-02	0.18651E	03	0.39011E	01	0.19223E-01	0.60026E-02	0.15058E-02
0.18768E	03	0.35399E	01	0.19891E-01	0.59722E	0.15546E-02	0.18878E	03	0.39386E	01	0.19640E-01	0.59734E-02	0.15254E-02
0.18992E	03	0.39498E	01	0.19321E-01	0.59646E	0.15082E-02	0.19108E	03	0.39111E	01	0.19152E-01	0.59928E-02	0.15021E-02
0.19225E	03	0.39586E	01	0.19302E-01	0.59577E	0.15199E-02	0.19343E	03	0.39600E	01	0.19294E-01	0.59565E-02	0.15041E-02
0.19462E	03	0.39419E	01	0.18729E-01	0.59704E	0.14634E-02	0.19582E	03	0.39880E	01	0.18772E-01	0.59388E-02	0.14581E-02
0.19703E	03	0.39973E	01	0.18528E-01	0.59274E	0.14369E-02	0.19825E	03	0.40681E	01	0.18253E-01	0.58727E-02	0.14028E-02
0.19949E	03	0.40231E	01	0.18384E-01	0.59075E	0.14213E-02	0.20073E	03	0.40666E	01	0.18544E-01	0.58744E-02	0.14256E-02
0.20199E	03	0.40592E	01	0.19025E-01	0.58519E	0.14570E-02	0.20326E	03	0.41049E	01	0.16621E-01	0.58444E-02	0.14395E-02
0.20454E	03	0.41513E	01	0.18580E-01	0.58090E	0.14125E-02	0.20558E	03	0.41970E	01	0.23376E-01	0.57745E-02	0.17666E-02
0.20636E	03	0.42258E	01	0.23236E-01	0.57529E	0.17493E-02	0.20714E	03	0.42222E	01	0.23397E-01	0.57552E-02	0.17622E-02
0.20793E	03	0.42785E	01	0.22986E-01	0.57132E	0.17186E-02	0.20873E	03	0.43029E	01	0.22698E-01	0.56947E-02	0.16917E-02
0.20953E	03	0.43336E	01	0.22823E-01	0.56721E	0.16942E-02	0.21033E	03	0.43547E	01	0.22818E-01	0.56567E-02	0.16892E-02
0.21114E	03	0.43470E	01	0.22101E-01	0.56625E	0.16377E-02	0.21195E	03	0.44265E	01	0.22289E-01	0.56036E-02	0.16345E-02
0.21277E	03	0.44472E	01	0.22352E-01	0.55884E	0.16347E-02	0.21359E	03	0.45036E	01	0.22009E-01	0.55475E-02	0.15979E-02
0.21442E	03	0.45610E	01	0.22642E-01	0.55492E	0.16443E-02	0.21525E	03	0.45897E	01	0.22256E-01	0.54848E-02	0.15975E-02
0.21609E	03	0.46155E	01	0.22259E-01	0.54667E	0.15925E-02	0.21693E	03	0.46331E	01	0.22152E-01	0.54538E-02	0.15811E-02
0.21777E	03	0.46808E	01	0.21525E-01	0.54199E	0.15268E-02	0.21863E	03	0.47344E	01	0.21485E-01	0.53821E-02	0.15133E-02
0.21940E	03	0.47997E	01	0.21535E-01	0.53366E	0.15049E-02	0.22034E	03	0.48524E	01	0.22481E-01	0.52989E-02	0.15581E-02
0.22121E	03	0.48478E	01	0.23052E-01	0.52341E	0.15700E-02	0.22208E	03	0.50003E	01	0.22500E-01	0.51508E-02	0.15306E-02
0.22296E	03	0.50503E	01	0.21632E-01	0.51643E	0.14661E-02	0.22384E	03	0.50852E	01	0.22369E-01	0.51048E-02	0.15008E-02
0.22473E	03	0.51533E	01	0.22272E-01	0.50952E	0.14851E-02	0.22562E	03	0.52540E	01	0.22330E-01	0.50285E-02	0.14649E-02
0.22652E	03	0.53230E	01	0.21558E-01	0.49831E	0.14059E-02	0.22742E	03	0.53863E	01	0.21906E-01	0.49424E-02	0.14168E-02
0.22833E	03	0.54728E	01	0.22020E-01	0.48865E	0.14081E-02	0.22925E	03	0.55365E	01	0.21786E-01	0.48459E-02	0.13817E-02
0.23016E	03	0.55902E	01	0.21676E-01	0.48120E	0.13650E-02	0.23109E	03	0.56739E	01	0.21864E-01	0.47597E-02	0.13620E-02
0.23202E	03	0.58094E	01	0.21532E-01	0.46761E	0.13177E-02	0.23296E	03	0.58642E	01	0.21773E-01	0.46424E-02	0.13228E-02
0.23390E	03	0.60002E	01	0.22179E-01	0.45606E	0.13238E-02	0.23485E	03	0.60778E	01	0.22188E-01	0.45142E-02	0.13109E-02
0.23580E	03	0.61766E	01	0.22116E-01	0.44563E	0.12898E-02	0.23676E	03	0.62486E	01	0.22107E-01	0.44144E-02	0.12771E-02
0.23773E	03	0.63326E	01	0.22051E-01	0.43664E	0.12601E-02	0.23870E	03	0.63912E	01	0.21818E-01	0.43332E-02	0.12372E-02
0.23967E	03	0.65135E	01	0.21737E-01	0.42642E	0.12130E-02	0.24066E	03	0.65805E	01	0.21892E-01	0.42269E-02	0.12111E-02
0.24165E	03	0.66510E	01	0.21654E-01	0.41881E	0.11868E-02	0.24264E	03	0.66825E	01	0.22079E-01	0.41710E-02	0.12051E-02
0.24364E	03	0.67378E	01	0.21313E-01	0.41410E	0.11550E-02	0.24465E	03	0.67718E	01	0.21786E-01	0.41226E-02	0.11754E-02
0.24566E	03	0.68895E	01	0.22431E-01	0.40806E	0.11979E-02	0.24669E	03	0.69272E	01	0.21886E-01	0.40357E-02	0.11571E-02
0.24771E	03	0.69708E	01	0.22233E-01	0.40166E	0.11686E-02	0.24876E	03	0.69830E	01	0.21653E-01	0.40132E-02	0.11423E-02
0.24978E	03	0.69665E	01	0.21632E-01	0.40032E	0.11332E-02	0.25083E	03	0.69897E	01	0.21966E-01	0.40065E-02	0.11581E-02
0.25188E	03	0.69932E	01	0.21723E-01	0.40008E	0.11355E-02	0.25294E	03	0.69669E	01	0.21651E-01	0.40186E-02	0.11386E-02
0.25401E	03	0.69595E	01	0.21309E-01	0.40027E	0.11218E-02	0.25508E	03	0.68662E	01	0.21286E-01	0.40718E-02	0.11343E-02
0.25616E	03	0.68351E	01	0.20945E-01	0.40884E	0.11206E-02	0.25725E	03	0.67800E	01	0.20857E-01	0.41180E-02	0.11241E-02
0.25807E	03	0.67588E	01	0.29809E-01	0.41297E	0.16109E-02	0.25862E	03	0.66953E	01	0.29302E-01	0.41642E-02	0.15969E-02
0.25917E	03	0.66910E	01	0.28835E-01	0.41661E	0.15721E-02	0.25972E	03	0.66245E	01	0.29345E-01	0.42026E-02	0.16139E-02
0.26027E	03	0.66672E	01	0.28946E-01	0.41794E	0.15832E-02	0.26083E	03	0.66153E	01	0.28735E-01	0.42079E-02	0.15824E-02
0.26138E	03	0.66432E	01	0.28831E-01	0.41925E	0.15818E-02	0.26194E	03	0.66771E	01	0.28538E-01	0.41737E-02	0.15568E-02
0.26250E	03	0.67312E	01	0.28649E-01	0.41446E	0.15538E-02	0.26307E	03	0.68170E	01	0.29037E-01	0.40985E-02	0.15573E-02
0.26354E	03	0.69267E	01	0.36093E-01	0.40395E	0.19081E-02	0.26391E	03	0.70956E	01	0.35265E-01	0.39514E-02	0.18237E-02
0.26462E	03	0.72227E	01	0.35715E-01	0.38861E	0.18163E-02	0.26467E	03	0.74537E	01	0.36019E-01	0.37705E-02	0.17772E-02
0.26505E	03	0.76024E	01	0.36668E-01	0.36982E	0.17745E-02	0.26543E	03	0.79298E	01	0.37343E-01	0.35429E-02	0.17313E-02
0.26581E	03	0.82547E	01	0.38017E-01	0.33953E	0.16853E-02	0.26619E	03	0.86950E	01	0.38321E-01	0.32054E-02	0.16074E-02
0.26658E	03	0.91622E	01	0.39413E-01	0.30392E	0.15671E-02	0.26696E	03	0.97191E	01	0.41657E-01	0.28098E-02	0.15073E-02
0.26734E	03	1.02372E	01	0.41101E-01	0.26204E	0.14008E-02	0.26773E	03	1.0756E	01	0.42485E-01	0.26478E-02	0.13608E-02
0.26812E	03	1.1297E	02	0.43273E-01	0.22807E	0.12913E-02	0.26850E	03	1.1822E	02	0.44188E-01	0.21288E-02	0.12310E-02
0.26889E	03	1.2275E	02	0.44838E-01	0.20070E	0.11775E-02	0.26928E	03	1.2596E	02	0.45063E-01	0.19238E-02	0.11344E-02
0.26977E	03	1.32899E	02	0.38109E-01	0.18491E	0.92158E-03	0.27035E	03	1.3103E	02	0.38438E-01	0.18002E-02	0.9055E-03
0.27094E	03	1.3267E	02	0.39055E-01	0.17621E	0.90056E-03	0.27153E	03	1.3057E	02	0.38866E-01	0.18111E-02	0.92109E-03
0.27212E	03	1.2856E	02	0.39190E-01	0.18596E	0.95359E-03	0.27282E	03	1.2659E	02	0.33318E-01	0.19081E-02	0.83182E-03
0.27361E	03	1.2330E	02	0.37122E-01	0.19918E	0.83724E-03	0.27441E	03	1.2023E	02	0.31609E-01	0.20737E-02	0.85772E-03
0.27521E	03	1.1707E	02	0.30841E-01	0.21612E	0.87210E-03	0.27626E	03	1.1462E	02	0.31618E-01	0.22318E-02	0.92361E-03
0.27683E	03	1.1333E	02	0.31308E-01	0.22696E	0.92978E-03	0.27764E	03	1.1199E	02	0.31389E-01	0.23095E-02	0.94870E-03
0.27846E	03	1.1028E	02	0.31084E-01	0.23631E	0.96131E-03	0.27928E	03	1.0958E	02	0.30735E-01	0.23839E-02	0.95878E-03
0.28010E	03	1.0952E	02	0.30695E-01	0.23856E	0.95825E-03	0.28093E	03	1.0981E	02	0.30569E-01	0.23765E-02	0.95065E-03
0.28176E	03	1.0959E	02	0.30148E-01	0.23831E	0.94022E-03	0.28259E	03	1.0809E	02	0.29772E-01	0.24306E-02	0.94762E-03
0.28343E	03	1.0704E	02	0.29946E-01	0.24643E	0.96574E-03	0.28428E	03	1.0557E	02	0.25374E-01	0.25122E-02	0.96560E-03
0.28512E	03	1.0328E	02	0.28288E-01	0.25886E	0.95828E-03	0.28597E	03	1.0085E	02	0.28215E-01	0.26724E-02	0.98673E-03
0.28680E	03	0.9881E	01	0.17475E-01	0.27716E	0.10631E-02	0.28768E	03	0.96397E	01	0.28326E-01	0.28324E-02	0.10500E-02
0.28858E	03	0.9471E	01	0.29617E-01	0.25203E	0.11321E-02	0.28941E	03	0.9156E	01	0.28548E-01	0.29478E-02	0.10672E-02
0.29028E	03	0.9193E	01	0.27105E-01	0.30027E	0.10651E-02	0.29115E	03	0.91200E	01	0.26496E-01	0.30317E-02	0.10512E-02
0.29203E	03	0.90120E	01	0.26262E-01	0.30749E	0.10568E-02	0.29291E	03	0.89059E	01	0.26606E-01	0.31182E-02	0.10856E-02
0.29379E	03	0.88054E	01	0.25689E-01	0.31591E	0.10620E-02	0.29469E	03	0.87337E	01	0.25547E-01	0.31890E-02	0.10661E-02
0.29558E	03	0.86862E	01	0.25537E-01	0.32088E	0.10723E-02	0.29647E	03	0.87081E	01	0.25189E-01	0.31997E-02	0.10548E-02</

ENERGY	I-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR						
0.380872	03	0.809558	01	0.550592-01	0.346812	00	0.249899-02	0.321402	03	0.813612	01	0.557262-01	0.344862	00	0.251472-02
0.381922	03	0.815004	01	0.560802-01	0.344252	00	0.252622-02	0.323232	03	0.813438	01	0.649705-01	0.340482	00	0.314622-02
0.382688	03	0.819872	01	0.711082-01	0.340201	00	0.317832-02	0.323012	03	0.824222	01	0.704492-01	0.340082	00	0.313562-02
0.383442	03	0.832252	01	0.697772-01	0.336562	00	0.317352-02	0.323672	03	0.836392	01	0.694132-01	0.334712	00	0.304652-02
0.384002	03	0.859992	01	0.701292-01	0.324512	00	0.297832-02	0.384332	03	0.875112	01	0.707282-01	0.318172	00	0.295602-02
0.384562	03	0.899842	01	0.114202	0.308022	00	0.460332-02	0.384702	03	0.882462	01	0.112982	0.315112	00	0.465922-02
0.384832	03	0.925362	01	0.113592	0.297892	00	0.442842-02	0.384962	03	0.964192	01	0.116992	0.283152	00	0.433452-02
0.385102	03	0.565802	01	0.118392	0.281042	00	0.435692-02	0.385232	03	0.105632	02	0.122622	0.250992	00	0.402792-02
0.385362	03	0.106702	02	0.123992	0.247482	00	0.401582-02	0.385502	03	0.113842	02	0.129232	0.225452	00	0.381172-02
0.385632	03	0.115902	02	0.131732	0.219402	00	0.378242-02	0.385762	03	0.123382	02	0.132642	0.198952	00	0.345342-02
0.385902	03	0.125812	02	0.133632	0.192722	00	0.337012-02	0.386032	03	0.125472	02	0.133692	0.193622	00	0.338742-02
0.386162	03	0.127672	02	0.136202	0.188132	00	0.335242-02	0.386302	03	0.123812	02	0.134442	0.198112	00	0.348252-02
0.386432	03	0.116522	02	0.130212	0.217662	00	0.370892-02	0.386572	03	0.109772	02	0.124892	0.237732	00	0.368572-02
0.386702	03	0.106582	02	0.124042	0.247902	00	0.402362-02	0.386832	03	0.102602	02	0.121322	0.261192	00	0.414612-02
0.386972	03	0.101002	02	0.120112	0.266652	00	0.419152-02	0.387102	03	0.972932	01	0.119532	0.279912	00	0.437892-02
0.387242	03	0.949442	01	0.116732	0.288702	00	0.448512-02	0.387372	03	0.925512	01	0.116342	0.297852	00	0.453032-02
0.387502	03	0.901742	01	0.114072	0.307262	00	0.458672-02	0.387642	03	0.890882	01	0.113702	0.311642	00	0.467372-02
0.387772	03	0.662312	01	0.112032	0.323512	00	0.474332-02	0.387912	03	0.869712	01	0.112112	0.320422	00	0.470122-02
0.388042	03	0.872462	01	0.109302	0.319242	00	0.456642-02	0.388182	03	0.866542	01	0.109752	0.321822	00	0.462322-02
0.388512	03	0.846262	01	0.555482-01	0.330472	00	0.240212-02	0.389052	03	0.823682	01	0.549472-01	0.340362	00	0.244762-02
0.389592	03	0.818112	01	0.546712-01	0.342872	00	0.245282-02	0.390142	03	0.813212	01	0.537732-01	0.345002	00	0.242712-02
0.390682	03	0.794902	01	0.536182-01	0.353502	00	0.248012-02	0.391232	03	0.792632	01	0.537922-01	0.348102	00	0.242712-02
0.392012	03	0.793332	01	0.388852-01	0.351402	00	0.178792-02	0.392372	03	0.785992	01	0.255592-01	0.357512	00	0.119792-02
0.394772	03	0.769042	01	0.253982-01	0.358842	00	0.119122-02	0.395802	03	0.777452	01	0.251062-01	0.361532	00	0.118792-02
0.396852	03	0.765992	01	0.251312-01	0.366982	00	0.120692-02	0.397892	03	0.762152	01	0.248172-01	0.368862	00	0.119792-02
0.398942	03	0.749332	01	0.247592-01	0.375082	00	0.121732-02	0.400002	03	0.753262	01	0.249072-01	0.373152	00	0.121632-02
0.401062	03	0.750092	01	0.244512-01	0.374722	00	0.119912-02	0.402122	03	0.743842	01	0.246892-01	0.377792	00	0.122072-02
0.403192	03	0.733792	01	0.249202-01	0.382792	00	0.124842-02	0.404262	03	0.739912	01	0.239932-01	0.379762	00	0.119242-02
0.405342	03	0.732832	01	0.241552-01	0.383282	00	0.121162-02	0.406422	03	0.727542	01	0.246262-01	0.385952	00	0.124392-02
0.407502	03	0.724122	01	0.244322-01	0.387672	00	0.123962-02	0.408412	03	0.722962	01	0.297452-01	0.387762	00	0.150952-02
0.409132	03	0.721822	01	0.295492-01	0.388822	00	0.150262-02	0.408862	03	0.721932	01	0.295722-01	0.388772	00	0.150452-02
0.410602	03	0.722282	01	0.299552-01	0.388602	00	0.152542-02	0.411332	03	0.724662	01	0.296992-01	0.387382	00	0.150572-02
0.412072	03	0.729802	01	0.301782-01	0.384812	00	0.151952-02	0.412802	03	0.723392	01	0.301062-01	0.388042	00	0.152882-02
0.413542	03	0.732952	01	0.300462-01	0.383212	00	0.150682-02	0.414282	03	0.740542	01	0.296822-01	0.379432	00	0.147192-02
0.414842	03	0.745582	01	0.423382-01	0.376962	00	0.208872-02	0.415212	03	0.761452	01	0.428702-01	0.369182	00	0.202122-02
0.415592	03	0.764142	01	0.431722-01	0.367862	00	0.207852-02	0.415962	03	0.766632	01	0.440962-01	0.359102	00	0.207232-02
0.416332	03	0.792552	01	0.446382-01	0.358492	00	0.207082-02	0.416712	03	0.805522	01	0.445172-01	0.348692	00	0.203132-02
0.417082	03	0.837012	01	0.469582-01	0.334432	00	0.196742-02	0.417462	03	0.855142	01	0.455862-01	0.326602	00	0.194842-02
0.417832	03	0.885752	01	0.469292-01	0.313822	00	0.192702-02	0.418212	03	0.916322	01	0.480032-01	0.301482	00	0.198482-02
0.418592	03	0.557692	01	0.488782-01	0.285562	00	0.182662-02	0.418962	03	0.100632	02	0.493342-01	0.268022	00	0.173022-02
0.419342	03	0.105132	02	0.502392-01	0.252652	00	0.166302-02	0.419722	03	0.111702	02	0.518032-01	0.231882	00	0.157182-02
0.420102	03	0.117332	02	0.523742-01	0.215452	00	0.147652-02	0.420482	03	0.123462	02	0.536582-01	0.198842	00	0.139572-02
0.420862	03	0.128672	02	0.554252-01	0.185692	00	0.134672-02	0.421242	03	0.131692	02	0.564992-01	0.178472	00	0.111952-02
0.421622	03	0.138942	02	0.572782-01	0.171032	00	0.128202-02	0.422002	03	0.135152	02	0.573282-01	0.170572	00	0.127562-02
0.422382	03	0.132842	02	0.566652-01	0.175822	00	0.130362-02	0.422772	03	0.130282	02	0.560232-01	0.181782	00	0.133272-02
0.423152	03	0.126012	02	0.551072-01	0.192252	00	0.138682-02	0.423532	03	0.122622	02	0.545042-01	0.200962	00	0.143332-02
0.423922	03	0.117692	02	0.532692-01	0.214362	00	0.149422-02	0.424302	03	0.113412	02	0.520022-01	0.226722	00	0.154292-02
0.424692	03	0.109522	02	0.473652-01	0.238542	00	0.147862-02	0.425072	03	0.105502	02	0.461992-01	0.251492	00	0.152022-02
0.425462	03	0.102152	02	0.455912-01	0.262702	00	0.156732-02	0.425852	03	0.986362	01	0.447312-01	0.275072	00	0.161612-02
0.426232	03	0.556392	01	0.438422-01	0.288352	00	0.165432-02	0.426622	03	0.935692	01	0.472212-01	0.297802	00	0.168002-02
0.427012	03	0.904292	01	0.426522-01	0.306222	00	0.170532-02	0.427402	03	0.881562	01	0.421772-01	0.315522	00	0.174152-02
0.427792	03	0.867682	01	0.420762-01	0.321272	00	0.176502-02	0.428372	03	0.844852	01	0.295892-01	0.331052	00	0.128182-02
0.429152	03	0.818402	01	0.289372-01	0.342682	00	0.129772-02	0.429942	03	0.785582	01	0.284872-01	0.357772	00	0.133352-02
0.430722	03	0.767752	01	0.286032-01	0.366152	00	0.137662-02	0.431512	03	0.752182	01	0.286342-01	0.373712	00	0.140052-02
0.432302	03	0.736952	01	0.285632-01	0.381242	00	0.142512-02	0.433102	03	0.726602	01	0.286682-01	0.386402	00	0.144572-02
0.434292	03	0.711152	01	0.199302-01	0.394312	00	0.102842-02	0.435892	03	0.689712	01	0.191092-01	0.405522	00	0.101412-02
0.437492	03	0.673472	01	0.187182-01	0.414242	00	0.101482-02	0.439112	03	0.658122	01	0.192392-01	0.422652	00	0.106612-02
0.440742	03	0.648832	01	0.190662-01	0.427812	00	0.106412-02	0.442372	03	0.633802	01	0.188112-01	0.436302	00	0.107412-02
0.444012	03	0.623492	01	0.186602-01	0.442232	00	0.118002-02	0.445672	03	0.611992	01	0.184812-01	0.448892	00	0.108582-02
0.447332	03	0.600862	01	0.184652-01	0.453142	00	0.109512-02	0.449002	03	0.595612	01	0.183352-01	0.458672	00	0.110052-02
0.450682	03	0.580472	01	0.179562-01	0.465402	00	0.109372-02	0.452372	03	0.579502	01	0.179112-01	0.468442	00	0.109802-02
0.454072	03	0.573642	01	0.177382-01	0.472062	00	0.109582-02	0.455782	03	0.566272	01	0.176662-01	0.476642	00	0.110202-02
0.457502	03	0.555052	01	0.177382-01	0.481142	00	0.111692-02	0.459232	03	0.549622	01	0.175962-01	0.487122	00	0.112712-02
0.460962	03	0.543392	01	0.173262-01	0.491142	00	0.113682-02	0.462712	03	0.536862	01	0.172212-01	0.495972	00	0.117872-02
0.464442	03	0.527832	01	0.173052-01	0.501172	00	0.113582-02	0.466202	03	0.523432	01	0.235502-01	0.504142	00	0.155022-02
0.466952	03	0.521422	01	0.25											

ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR
C.58097E-03	0.41743E-01	0.33717E-01	0.57916E-02	0.25545E-02	0.58159E-03	0.41829E-01	0.33595E-01	0.57849E-02	0.25344E-02
0.58221E-03	0.41513E-01	0.33511E-01	0.58090E-02	0.25475E-02	0.58283E-03	0.41569E-01	0.33481E-01	0.58044E-02	0.25431E-02
0.58345E-03	0.41999E-01	0.33359E-01	0.57723E-02	0.25200E-02	0.58047E-03	0.42073E-01	0.33302E-01	0.57667E-02	0.25133E-02
0.58469E-03	0.42009E-01	0.33454E-01	0.57711E-02	0.25267E-02	0.58531E-03	0.42455E-01	0.33784E-01	0.57374E-02	0.25367E-02
0.58594E-03	0.42288E-01	0.33428E-01	0.57507E-02	0.25802E-02	0.58656E-03	0.42753E-01	0.35272E-01	0.57157E-02	0.26382E-02
0.58719E-03	0.43663E-01	0.35715E-01	0.56921E-02	0.26605E-02	0.58781E-03	0.43254E-01	0.34935E-01	0.56747E-02	0.25947E-02
0.58844E-03	0.43735E-01	0.33914E-01	0.56422E-02	0.25042E-02	0.58907E-03	0.44568E-01	0.33629E-01	0.55810E-02	0.24562E-02
0.58970E-03	0.45156E-01	0.33834E-01	0.55385E-02	0.24523E-02	0.59017E-03	0.46074E-01	0.46378E-01	0.54723E-02	0.34647E-02
0.59049E-03	0.46900E-01	0.48737E-01	0.54131E-02	0.34527E-02	0.59081E-03	0.47204E-01	0.48678E-01	0.53919E-02	0.34350E-02
0.59112E-03	0.49118E-01	0.48840E-01	0.52584E-02	0.33611E-02	0.59144E-03	0.49177E-01	0.48750E-01	0.52550E-02	0.33524E-02
0.59176E-03	0.49442E-01	0.48748E-01	0.52373E-02	0.33410E-02	0.59207E-03	0.50693E-01	0.49017E-01	0.51514E-02	0.33046E-02
0.59239E-03	0.52128E-01	0.49302E-01	0.50553E-02	0.32617E-02	0.59271E-03	0.53844E-01	0.49606E-01	0.49440E-02	0.32092E-02
0.59303E-03	0.55872E-01	0.50166E-01	0.48141E-02	0.31565E-02	0.59348E-03	0.56561E-01	0.50405E-01	0.47707E-02	0.31465E-02
0.59366E-03	0.59252E-01	0.50828E-01	0.46059E-02	0.30636E-02	0.59398E-03	0.62039E-01	0.51214E-01	0.44414E-02	0.29765E-02
0.59430E-03	0.63425E-01	0.51676E-01	0.43604E-02	0.25488E-02	0.59462E-03	0.67436E-01	0.52839E-01	0.41376E-02	0.28612E-02
0.59494E-03	0.69888E-01	0.53783E-01	0.40068E-02	0.28203E-02	0.59526E-03	0.71902E-01	0.54812E-01	0.39031E-02	0.27995E-02
0.59558E-03	0.75991E-01	0.55799E-01	0.36993E-02	0.27014E-02	0.59590E-03	0.79078E-01	0.56530E-01	0.35335E-02	0.26286E-02
0.59622E-03	0.81886E-01	0.57050E-01	0.34259E-02	0.25572E-02	0.59654E-03	0.87339E-01	0.58518E-01	0.31888E-02	0.24421E-02
0.59686E-03	0.89239E-01	0.58972E-01	0.31106E-02	0.24004E-02	0.59718E-03	0.91346E-01	0.59721E-01	0.30261E-02	0.23650E-02
0.59750E-03	0.92679E-01	0.60209E-01	0.29735E-02	0.23430E-02	0.59783E-03	0.92682E-01	0.60569E-01	0.29735E-02	0.23570E-02
0.59815E-03	0.92659E-01	0.61009E-01	0.29741E-02	0.23746E-02	0.59847E-03	0.92349E-01	0.60814E-01	0.29865E-02	0.23769E-02
0.59879E-03	0.90837E-01	0.60581E-01	0.30461E-02	0.24149E-02	0.59911E-03	0.88219E-01	0.59954E-01	0.31524E-02	0.24733E-02
0.59944E-03	0.87346E-01	0.59628E-01	0.31892E-02	0.24884E-02	0.59976E-03	0.83911E-01	0.58304E-01	0.33348E-02	0.25446E-02
0.60008E-03	0.82576E-01	0.57886E-01	0.33941E-02	0.25711E-02	0.60040E-03	0.78878E-01	0.56912E-01	0.36231E-02	0.26534E-02
0.60072E-03	0.76402E-01	0.56705E-01	0.36209E-02	0.24887E-02	0.60106E-03	0.74124E-01	0.55916E-01	0.37913E-02	0.27744E-02
0.60136E-03	0.72160E-01	0.55672E-01	0.38893E-02	0.28304E-02	0.60171E-03	0.71209E-01	0.55565E-01	0.39384E-02	0.28638E-02
0.60200E-03	0.68963E-01	0.55243E-01	0.40556E-02	0.29320E-02	0.60236E-03	0.66067E-01	0.54903E-01	0.42124E-02	0.30268E-02
0.60264E-03	0.65755E-01	0.54923E-01	0.42296E-02	0.30400E-02	0.60301E-03	0.63969E-01	0.54710E-01	0.43297E-02	0.31000E-02
0.60328E-03	0.62594E-01	0.55065E-01	0.44801E-02	0.31767E-02	0.60366E-03	0.60558E-01	0.55092E-01	0.45273E-02	0.32646E-02
0.60392E-03	0.60082E-01	0.54958E-01	0.45553E-02	0.32764E-02	0.60431E-03	0.57640E-01	0.54594E-01	0.47033E-02	0.33604E-02
0.60456E-03	0.57994E-01	0.54716E-01	0.46819E-02	0.33525E-02	0.60497E-03	0.56794E-01	0.54582E-01	0.47561E-02	0.33974E-02
0.60520E-03	0.55544E-01	0.54388E-01	0.48087E-02	0.34178E-02	0.60563E-03	0.55220E-01	0.54328E-01	0.48549E-02	0.34520E-02
0.60584E-03	0.54555E-01	0.53886E-01	0.48978E-02	0.34604E-02	0.60628E-03	0.53296E-01	0.53845E-01	0.49789E-02	0.35077E-02
0.60648E-03	0.52165E-01	0.53876E-01	0.50531E-02	0.35635E-02	0.60693E-03	0.50575E-01	0.53910E-01	0.51590E-02	0.36404E-02
0.60712E-03	0.49522E-01	0.53949E-01	0.52311E-02	0.36938E-02	0.60758E-03	0.49419E-01	0.53945E-01	0.52379E-02	0.37018E-02
0.60776E-03	0.48139E-01	0.52417E-01	0.53264E-02	0.37259E-02	0.60823E-03	0.47426E-01	0.53282E-01	0.53762E-02	0.38058E-02
0.60840E-03	0.46636E-01	0.53305E-01	0.54190E-02	0.38440E-02	0.60888E-03	0.45775E-01	0.53365E-01	0.54944E-02	0.39443E-02
0.60904E-03	0.45891E-01	0.53542E-01	0.54852E-02	0.39545E-02	0.60953E-03	0.44288E-01	0.53463E-01	0.56204E-02	0.40841E-02
0.60968E-03	0.45120E-01	0.53579E-01	0.55079E-02	0.40383E-02	0.61018E-03	0.42788E-01	0.53558E-01	0.57441E-02	0.42040E-02
0.61032E-03	0.44666E-01	0.53670E-01	0.54306E-02	0.41829E-02	0.61083E-03	0.41931E-01	0.53709E-01	0.58715E-02	0.43267E-02
0.61096E-03	0.44033E-01	0.53756E-01	0.54762E-02	0.43440E-02	0.61148E-03	0.40955E-01	0.53758E-01	0.59292E-02	0.44519E-02
0.61160E-03	0.43486E-01	0.53720E-01	0.55349E-02	0.45045E-02	0.61213E-03	0.40251E-01	0.53658E-01	0.60063E-02	0.45872E-02
0.61224E-03	0.43043E-01	0.53684E-01	0.55969E-02	0.46648E-02	0.61278E-03	0.39462E-01	0.53538E-01	0.60455E-02	0.47299E-02
0.61288E-03	0.42689E-01	0.53648E-01	0.56128E-02	0.48328E-02	0.61343E-03	0.38782E-01	0.53406E-01	0.60937E-02	0.48864E-02
0.61352E-03	0.42344E-01	0.53612E-01	0.56287E-02	0.50050E-02	0.61408E-03	0.38233E-01	0.53282E-01	0.61421E-02	0.50077E-02
0.61416E-03	0.42000E-01	0.53576E-01	0.56446E-02	0.51829E-02	0.61473E-03	0.37733E-01	0.53158E-01	0.61902E-02	0.51439E-02
0.61480E-03	0.41656E-01	0.53540E-01	0.56605E-02	0.53628E-02	0.61538E-03	0.37233E-01	0.53038E-01	0.62371E-02	0.52819E-02
0.61544E-03	0.41312E-01	0.53504E-01	0.56764E-02	0.55404E-02	0.61603E-03	0.36733E-01	0.52918E-01	0.62810E-02	0.53722E-02
0.61608E-03	0.40968E-01	0.53468E-01	0.56923E-02	0.57183E-02	0.61668E-03	0.36233E-01	0.52798E-01	0.63252E-02	0.54635E-02
0.61672E-03	0.40624E-01	0.53432E-01	0.57282E-02	0.58962E-02	0.61733E-03	0.35733E-01	0.52678E-01	0.63696E-02	0.55546E-02
0.61736E-03	0.40280E-01	0.53396E-01	0.57481E-02	0.60741E-02	0.61798E-03	0.35233E-01	0.52558E-01	0.64137E-02	0.56457E-02
0.61800E-03	0.39936E-01	0.53360E-01	0.57680E-02	0.62520E-02	0.61863E-03	0.34733E-01	0.52438E-01	0.64578E-02	0.57368E-02
0.61864E-03	0.39592E-01	0.53324E-01	0.57879E-02	0.64309E-02	0.61928E-03	0.34233E-01	0.52318E-01	0.65019E-02	0.58279E-02
0.61928E-03	0.39248E-01	0.53288E-01	0.58078E-02	0.66098E-02	0.61993E-03	0.33733E-01	0.52198E-01	0.65460E-02	0.59130E-02
0.61992E-03	0.38904E-01	0.53252E-01	0.58277E-02	0.67887E-02	0.62058E-03	0.33233E-01	0.52078E-01	0.65901E-02	0.60041E-02
0.62056E-03	0.38560E-01	0.53216E-01	0.58476E-02	0.69676E-02	0.62123E-03	0.32733E-01	0.51958E-01	0.66342E-02	0.60952E-02
0.62120E-03	0.38216E-01	0.53180E-01	0.58675E-02	0.71465E-02	0.62188E-03	0.32233E-01	0.51838E-01	0.66783E-02	0.61863E-02
0.62184E-03	0.37872E-01	0.53144E-01	0.58874E-02	0.73254E-02	0.62253E-03	0.31733E-01	0.51718E-01	0.67224E-02	0.62774E-02
0.62248E-03	0.37528E-01	0.53108E-01	0.59073E-02	0.75043E-02	0.62318E-03	0.31233E-01	0.51598E-01	0.67665E-02	0.63685E-02
0.62312E-03	0.37184E-01	0.53072E-01	0.59272E-02	0.76832E-02	0.62383E-03	0.30733E-01	0.51478E-01	0.68106E-02	0.64596E-02
0.62376E-03	0.36840E-01	0.53036E-01	0.59471E-02	0.78621E-02	0.62448E-03	0.30233E-01	0.51358E-01	0.68527E-02	0.65507E-02
0.62440E-03	0.36496E-01	0.53000E-01	0.59670E-02	0.80410E-02	0.62513E-03	0.29733E-01	0.51238E-01	0.68948E-02	0.66418E-02
0.62504E-03	0.36152E-01	0.52964E-01	0.59869E-02	0.82199E-02	0.62578E-03	0.29233E-01	0.51118E-01	0.69369E-02	0.67329E-02
0.62568E-03	0.35808E-01	0.52928E-01	0.60068E-02	0.83988E-02	0.62643E-03	0.28733E-01	0.51000E-01	0.69790E-02	0.68240E-02
0.62632E-03	0.35464E-01	0.52892E-01	0.60267E-02	0.85777E-02	0.62708E-03	0.28233E-01	0.50880E-01	0.70211E-02	0.69151E-02
0.62696E-03	0.35120E-01	0.52856E-01	0.60466E-02	0.87566E-02	0.62773E-03	0.27733E-01	0.50760E-01	0.70632E-02	0.70062E-02
0.62760E-03	0.34776E-01	0.52820E-01	0.60665E-02	0.89355E-02	0.62838E-03	0.27233E-01	0.50640E-01	0.71053E-02	0.70973E-02
0.62824E-03	0.34432E-01	0.52784E-01	0.60864E-02	0.91144E-02	0.62903E-03	0.26733E-01	0.50520E-01	0.71474E-02	0.71884E-02
0.62888E-03	0.34088E-01	0.52748E-01	0.61063E-02	0.92933E-02	0.62968E-03	0.26233E-01	0.50400E-01	0.71895E-02	0.72795E-02
0.62952E-03	0.33744E-01	0.52712E-01	0.61262E-02	0.94722E-02	0.63033E-03	0.25733E-01	0.50280E-01	0.72316E-02	0.73706E-02
0.63016E-03	0.33400E-01	0.52676E-01	0.61461E-02	0.96511E-02	0.63098E-03	0.25233E-01	0.50160E-01	0.72737E-02	0.74617E-02
0.63080E-03	0.33056E-01	0.52640E-01	0.61660E-02	0.98300E-02	0.63163E-03	0.24733E-01	0.50040E-01	0.73158E-02	0.75528E-02
0.63144E-03	0.32712E-01	0.52604E-01	0.61859E-02	0.10089E-01	0.63228E-03	0.24233E-01	0.49920E-01	0.73579E-02	0.76439E-02
0.63208E-03	0.32368E-01	0.52568E-01	0.62058E-02	0.10288E-01	0.63293E-03	0.23733E-01	0.49800E-01	0.73999E-02	0.77350E-02
0.63272E-03	0.32024E-01	0.52							

ENERGY	I-SECTION	I-EFFOR	TEAMS	T-EFFOR	ENERGY	X-SECTION	X-EFFOR	TEAMS	T-EFFOR
0.86683E 03	0.40229E 01	0.47273E-01	0.45475E	00	0.28132E-02	0.66139E 03	0.56312E 01	0.47866E 00	0.25085E-02
0.86195E 03	0.52498E 01	0.45827E-01	0.50316E	00	0.30176E-02	0.86250E 03	0.50295E 01	0.51789E 00	0.30839E-02
0.86308E 03	0.47666E 01	0.44972E-01	0.53612E	00	0.31551E-02	0.86362E 03	0.45575E 01	0.55082E 00	0.32244E-02
0.86418E 03	0.44306E 01	0.44704E-01	0.56005E	00	0.32765E-02	0.86478E 03	0.47770E 01	0.44895E 00	0.37138E 00
0.86539E 03	0.42320E 01	0.45159E-01	0.57329E	00	0.33926E-02	0.86586E 03	0.42068E 01	0.49399E-01	0.57664E 00
0.86670E 03	0.40121E 01	0.31471E-01	0.59156E	00	0.24364E-02	0.86783E 03	0.39353E 01	0.30715E-01	0.59753E 00
0.86895E 03	0.39025E 01	0.30555E-01	0.60009E	00	0.23996E-02	0.87008E 03	0.38153E 01	0.30615E-01	0.60699E 00
0.87122E 03	0.38815E 01	0.30659E-01	0.60174E	00	0.24144E-02	0.87235E 03	0.37893E 01	0.30853E-01	0.60904E 00
0.87377E 03	0.37707E 01	0.25123E-01	0.61058E	00	0.20074E-02	0.87548E 03	0.37294E 01	0.24915E-01	0.61383E 00
0.87719E 03	0.37667E 01	0.24675E-01	0.61083E	00	0.19726E-02	0.87891E 03	0.37561E 01	0.24670E-01	0.61173E 00
0.88064E 03	0.37009E 01	0.24465E-01	0.61582E	00	0.19718E-02	0.88237E 03	0.37369E 01	0.24437E-01	0.61325E 00
0.88410E 03	0.36539E 01	0.24729E-01	0.61670E	00	0.19958E-02	0.88584E 03	0.36931E 01	0.24664E-01	0.61678E 00
0.88758E 03	0.37277E 01	0.24490E-01	0.61397E	00	0.19678E-02	0.88933E 03	0.37101E 01	0.24533E-01	0.61539E 00
0.89109E 03	0.36880E 01	0.24526E-01	0.61722E	00	0.19811E-02	0.89285E 03	0.36508E 01	0.24254E-01	0.62022E 00
0.89461E 03	0.37135E 01	0.24157E-01	0.61513E	00	0.19447E-02	0.89639E 03	0.37760E 01	0.24177E-01	0.61012E 00
0.89816E 03	0.37747E 01	0.24272E-01	0.61023E	00	0.19358E-02	0.89994E 03	0.37262E 01	0.24602E-01	0.61410E 00
0.90173E 03	0.38086E 01	0.24843E-01	0.60786E	00	0.19763E-02	0.90352E 03	0.37790E 01	0.24562E-01	0.60588E 00
0.90532E 03	0.38683E 01	0.24348E-01	0.60277E	00	0.19267E-02	0.90712E 03	0.38672E 01	0.24288E-01	0.60282E 00
0.90893E 03	0.38861E 01	0.24500E-01	0.60138E	00	0.19275E-02	0.91074E 03	0.38672E 01	0.24348E-01	0.60031E 00
0.91256E 03	0.40043E 01	0.24326E-01	0.59905E	00	0.19100E-02	0.91438E 03	0.40165E 01	0.24256E-01	0.59120E 00
0.91621E 03	0.40040E 01	0.24488E-01	0.59907E	00	0.18848E-02	0.91805E 03	0.41019E 01	0.24207E-01	0.58472E 00
0.91989E 03	0.41169E 01	0.24985E-01	0.58429E	00	0.19105E-02	0.92174E 03	0.41694E 01	0.25138E-01	0.57951E 00
0.92359E 03	0.41773E 01	0.24658E-01	0.57889E	00	0.18711E-02	0.92545E 03	0.42859E 01	0.24640E-01	0.57071E 00
0.92731E 03	0.42862E 01	0.24489E-01	0.57072E	00	0.16251E-02	0.92918E 03	0.43643E 01	0.24178E-01	0.56490E 00
0.93105E 03	0.44165E 01	0.24216E-01	0.56108E	00	0.17781E-02	0.93293E 03	0.44711E 01	0.24524E-01	0.55707E 00
0.93482E 03	0.44844E 01	0.24746E-01	0.55609E	00	0.16092E-02	0.93671E 03	0.44816E 01	0.24265E-01	0.55628E 00
0.93861E 03	0.44644E 01	0.24136E-01	0.55756E	00	0.17612E-02	0.94051E 03	0.44419E 01	0.24140E-01	0.56085E 00
0.94242E 03	0.43771E 01	0.24069E-01	0.56399E	00	0.17766E-02	0.94433E 03	0.43056E 01	0.24102E-01	0.56929E 00
0.94625E 03	0.42475E 01	0.24148E-01	0.57360E	00	0.16128E-02	0.94818E 03	0.42177E 01	0.24417E-01	0.57584E 00
0.95011E 03	0.41764E 01	0.23985E-01	0.57899E	00	0.18174E-02	0.95205E 03	0.41449E 01	0.23413E-01	0.58138E 00
0.95355E 03	0.40749E 01	0.40439E-01	0.58667E	00	0.31048E-02	0.95599E 03	0.41191E 01	0.40415E-01	0.58334E 00
0.95646E 03	0.39571E 01	0.40226E-01	0.59585E	00	0.31368E-02	0.95952E 03	0.40826E 01	0.40408E-01	0.58614E 00
0.95994E 03	0.40912E 01	0.40427E-01	0.58545E	00	0.30975E-02	0.96360E 03	0.39527E 01	0.40402E-01	0.59617E 00
0.96375E 03	0.40430E 01	0.40560E-01	0.58408E	00	0.31009E-02	0.96708E 03	0.41231E 01	0.40798E-01	0.58304E 00
0.96758E 03	0.42019E 01	0.40909E-01	0.57702E	00	0.30954E-02	0.97052E 03	0.41502E 01	0.40848E-01	0.58102E 00
0.97141E 03	0.40578E 01	0.40671E-01	0.58803E	00	0.31300E-02	0.96502E 03	0.39855E 01	0.40660E-01	0.59362E 00
0.96517E 03	0.38629E 01	0.40985E-01	0.60321E	00	0.32355E-02	0.96183E 03	0.37997E 01	0.41285E-01	0.60865E 00
0.96249E 03	0.37737E 01	0.41390E-01	0.61027E	00	0.33057E-02	0.96315E 03	0.37555E 01	0.41339E-01	0.61174E 00
0.96380E 03	0.37999E 01	0.41081E-01	0.60823E	00	0.32701E-02	0.96446E 03	0.36848E 01	0.40794E-01	0.61742E 00
0.96512E 03	0.38078E 01	0.40658E-01	0.60759E	00	0.32330E-02	0.96678E 03	0.36276E 01	0.20150E-01	0.62206E 00
0.96943E 03	0.35745E 01	0.20471E-01	0.62643E	00	0.16783E-02	0.97210E 03	0.34916E 01	0.20343E-01	0.63328E 00
0.97477E 03	0.34617E 01	0.20053E-01	0.63573E	00	0.16689E-02	0.97746E 03	0.33861E 01	0.19847E-01	0.64205E 00
0.98016E 03	0.33623E 01	0.19725E-01	0.64399E	00	0.16624E-02	0.98287E 03	0.33415E 01	0.19880E-01	0.64583E 00
0.98559E 03	0.33153E 01	0.19999E-01	0.64804E	00	0.16962E-02	0.98832E 03	0.32223E 01	0.20127E-01	0.65338E 00
0.99106E 03	0.32477E 01	0.19918E-01	0.65378E	00	0.17042E-02	0.99382E 03	0.32018E 01	0.19699E-01	0.65775E 00
0.99658E 03	0.31658E 01	0.19539E-01	0.66085E	00	0.16898E-02	0.99936E 03	0.31649E 01	0.19625E-01	0.66632E 00
0.10021E 04	0.31398E 01	0.19525E-01	0.66307E	00	0.17314E-02	0.10050E 04	0.31762E 01	0.19839E-01	0.65994E 00
0.10078E 04	0.31180E 01	0.19644E-01	0.66532E	00	0.17104E-02	0.10106E 04	0.31506E 01	0.19768E-01	0.66145E 00
0.10134E 04	0.31195E 01	0.19461E-01	0.66485E	00	0.16934E-02	0.10163E 04	0.31045E 01	0.19281E-01	0.66618E 00
0.10191E 04	0.30933E 01	0.19107E-01	0.66715E	00	0.16683E-02	0.10220E 04	0.31487E 01	0.18934E-01	0.66233E 00
0.10249E 04	0.31161E 01	0.19034E-01	0.66516E	00	0.16569E-02	0.10278E 04	0.30767E 01	0.18961E-01	0.66860E 00
0.10307E 04	0.30858E 01	0.19039E-01	0.66780E	00	0.16640E-02	0.10336E 04	0.30978E 01	0.19117E-01	0.66673E 00
0.10366E 04	0.31256E 01	0.19136E-01	0.66431E	00	0.16636E-02	0.10395E 04	0.30925E 01	0.19092E-01	0.66721E 00
0.10425E 04	0.31009E 01	0.19091E-01	0.66645E	00	0.16651E-02	0.10454E 04	0.30895E 01	0.19148E-01	0.66753E 00
0.10484E 04	0.30758E 01	0.19150E-01	0.66868E	00	0.16759E-02	0.10514E 04	0.30870E 01	0.19208E-01	0.66770E 00
0.10544E 04	0.30820E 01	0.19239E-01	0.66812E	00	0.16822E-02	0.10574E 04	0.30999E 01	0.19134E-01	0.66655E 00
0.10605E 04	0.31009E 01	0.18865E-01	0.66649E	00	0.16455E-02	0.10635E 04	0.31129E 01	0.18522E-01	0.66545E 00
0.10666E 04	0.30837E 01	0.18993E-01	0.66798E	00	0.16604E-02	0.10697E 04	0.31024E 01	0.18730E-01	0.66633E 00
0.10728E 04	0.30866E 01	0.18428E-01	0.66771E	00	0.16103E-02	0.10759E 04	0.31162E 01	0.18592E-01	0.66515E 00
0.10790E 04	0.31275E 01	0.18708E-01	0.66328E	00	0.16239E-02	0.10821E 04	0.31487E 01	0.18482E-01	0.66234E 00
0.10853E 04	0.31749E 01	0.18482E-01	0.66003E	00	0.15964E-02	0.10884E 04	0.31735E 01	0.18277E-01	0.66018E 00
0.10908E 04	0.32092E 01	0.26129E-01	0.65710E	00	0.22469E-02	0.10946E 04	0.32687E 01	0.26387E-01	0.65369E 00
0.10960E 04	0.32455E 01	0.26179E-01	0.65057E	00	0.22289E-02	0.10956E 04	0.33480E 01	0.26231E-01	0.64527E 00
0.10972E 04	0.33736E 01	0.26320E-01	0.64314E	00	0.22153E-02	0.10988E 04	0.34243E 01	0.26197E-01	0.63886E 00
0.11004E 04	0.35035E 01	0.26049E-01	0.63224E	00	0.21554E-02	0.11020E 04	0.35525E 01	0.25975E-01	0.62812E 00
0.11036E 04	0.35938E 01	0.26144E-01	0.62481E	00	0.21378E-02	0.11052E 04	0.37187E 01	0.26297E-01	0.61470E 00
0.11068E 04	0.39340E 01	0.26480E-01	0.59761E	00	0.20710E-02	0.11085E 04	0.41545E 01	0.26513E-01	0.58070E 00
0.11101E 04	0.43555E 01	0.26777E-01	0.56555E	00	0.19819E-02	0.11117E 04	0.44702E 01	0.26984E-01	0.55710E 00
0.11134E 04	0.43457E 01	0.26871E-01	0.56631E	00	0.19915E-02	0.11150E 04	0.42319E 01	0.27243E-01	0.57477E 00
0.11166E 04	0.39050E 01	0.27114E-01	0.59993E	00	0.21287E-02	0.11183E 04	0.38081E 01	0.26527E-01	0.60762E 00
0.11199E 04	0.36982E 01	0.26454E-01	0.61638E	00	0.21340E-02	0.1216E 04	0.35547E 01	0.26681E-01	0.62805E 00
0.11232E 04	0.35198E 01	0.26703E-01	0.63090E	00	0.22048E-02	0.1249E 04	0.34179E 01	0.26455E-01	0.63937E 00
0.11266E 04	0.33630E 01	0.26074E-01	0.64400E	00	0.21975E-02	0.1282E 04	0.33336E 01	0.25698E-01	0.64649E 00
0.11299E 04	0.32571E 01	0.25546E-01	0.65299E	00	0.21831E-02	0.1316E 04	0.32219E 01	0.25274E-01	0.65558E 00
0.11333E 04	0.31743E 01	0.25160E-01	0.66009E	00	0.21735E-02	0.1349E 04	0.31515E 01	0.25172E-01	0.66205E 00
0.11366E 04	0.31712E 01	0.25303E-01	0.66504E	00	0.22029E-02	0.1382E 04	0.30788E 01	0.25401E-01	0.66835E 00
0.11400E 04	0.30751E 01	0.26716E-01	0.65157E	00	0.22121E-02	0.1417E 04	0.29724E 01	0.25123E-01	0.67776E 00
0.11434E 04	0.29369E 01	0.25009E-01	0.68091E	00	0.22286E-02	0.1451E 04	0.30331E 01	0.25130E-01	0.67243E 00
0.11468E 04	0.29511E 01	0.25240E-01	0.67965E	00	0.22450E-02	0.1485E 04	0.29348E 01	0.24981E-01	0.68110E 00
0.11503E 04	0.29137E 01	0.25045E-01	0.68297E	00	0.22386E-02	0.1520E 04	0.29573E 01	0.25156E-01	0.67911E 00
0.11537E									

ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR
0.12806E 04	0.41622E 01	0.12161E 00	0.58001E 00	0.93831E-02	0.12814E 04	0.40472E C1	0.95021E-01	0.58922E 00	0.73274E-02
0.12824E 04	0.37132E 01	0.94671E-01	0.61525E 00	0.76244E-02	0.12834E 04	0.39402E 01	0.94596E-01	0.59717E 00	0.73931E-02
0.12844E 04	0.40199E 01	0.94765E-01	0.59115E 00	0.73314E-02	0.12855E 04	0.40091E 01	0.94927E-01	0.59196E 00	0.73541E-02
0.12865E 04	0.39246E 01	0.94851E-01	0.59843E 00	0.74287E-02	0.12875E 04	0.38502E 01	0.95114E-01	0.60431E 00	0.75221E-02
0.12890E 04	0.40023E 01	0.67842E-01	0.59234E 00	0.52594E-02	0.12911E 04	0.41357E 01	0.68383E-01	0.58231E 00	0.52109E-02
0.12919E 04	0.42398E 01	0.25577E-01	0.57420E 00	0.19219E-02	0.12939E 04	0.44400E 01	0.26428E-01	0.56224E 00	0.19445E-02
0.12960E 04	0.44805E 01	0.26465E-01	0.55608E 00	0.19260E-02	0.12981E 04	0.45167E 01	0.26241E-01	0.55374E 00	0.19017E-02
0.13001E 04	0.43999E 01	0.26051E-01	0.56227E 00	0.19199E-02	0.13022E 04	0.43820E 01	0.26035E-01	0.56357E 00	0.19222E-02
0.13034E 04	0.42301E 01	0.26038E-01	0.57492E 00	0.19591E-02	0.13063E 04	0.41606E 01	0.25956E-01	0.58016E 00	0.19707E-02
0.13084E 04	0.40174E 01	0.25519E-01	0.59113E 00	0.19742E-02	0.13105E 04	0.39868E 01	0.25399E-01	0.59351E 00	0.19728E-02
0.13126E 04	0.39745E 01	0.25426E-01	0.59447E 00	0.19782E-02	0.13147E 04	0.39016E 01	0.25505E-01	0.60016E 00	0.20032E-02
0.13168E 04	0.38528E 01	0.25555E-01	0.60401E 00	0.20201E-02	0.13194E 04	0.38551E 01	0.21052E-01	0.60384E 00	0.16636E-02
0.13226E 04	0.37901E 01	0.21021E-01	0.60898E 00	0.16753E-02	0.13258E 04	0.37684E 01	0.20858E-01	0.61071E 00	0.16671E-02
0.13290E 04	0.37700E 01	0.20811E-01	0.61060E 00	0.16631E-02	0.13222E 04	0.37166E 01	0.20839E-01	0.61486E 00	0.16768E-02
0.13354E 04	0.36908E 01	0.20712E-01	0.61695E 00	0.16723E-02	0.13387E 04	0.36677E 01	0.20956E-01	0.61883E 00	0.16972E-02
0.13419E 04	0.36194E 01	0.20733E-01	0.62277E 00	0.16898E-02	0.13452E 04	0.35526E 01	0.20441E-01	0.62820E 00	0.16805E-02
0.13484E 04	0.35246E 01	0.20569E-01	0.63051E 00	0.16973E-02	0.13517E 04	0.35429E 01	0.20615E-01	0.62903E 00	0.16971E-02
0.13550E 04	0.34500E 01	0.20501E-01	0.63670E 00	0.17082E-02	0.13583E 04	0.33983E 01	0.20627E-01	0.64101E 00	0.17304E-02
0.13616E 04	0.34024E 01	0.20487E-01	0.64068E 00	0.17178E-02	0.13649E 04	0.33441E 01	0.20476E-01	0.64557E 00	0.16937E-02
0.13683E 04	0.32971E 01	0.19851E-01	0.64956E 00	0.16875E-02	0.13716E 04	0.32883E 01	0.19829E-01	0.65034E 00	0.16877E-02
0.13750E 04	0.32331E 01	0.19788E-01	0.65502E 00	0.16963E-02	0.13784E 04	0.32468E 01	0.19823E-01	0.65388E 00	0.16937E-02
0.13818E 04	0.32091E 01	0.19876E-01	0.65709E 00	0.17092E-02	0.13852E 04	0.31687E C1	0.20380E-01	0.66056E 00	0.17619E-02
0.13886E 04	0.31298E 01	0.20285E-01	0.66396E 00	0.17626E-02	0.13920E 04	0.31282E 01	0.19940E-01	0.66408E 00	0.17329E-02
0.13954E 04	0.30707E 01	0.19661E-01	0.66909E 00	0.17216E-02	0.13989E 04	0.30937E 01	0.19697E-01	0.66710E 00	0.17156E-02
0.14024E 04	0.30469E 01	0.19976E-01	0.67118E 00	0.17546E-02	0.14058E 04	0.30571E 01	0.19690E-01	0.67028E 00	0.17272E-02
0.14093E 04	0.30081E 01	0.19536E-01	0.67460E 00	0.17248E-02	0.14128E 04	0.30364E 01	0.19753E-01	0.67213E 00	0.17374E-02
0.14163E 04	0.30130E 01	0.19591E-01	0.67416E 00	0.17433E-02	0.14198E 04	0.30071E 01	0.19747E-01	0.67469E 00	0.17473E-02
0.14234E 04	0.29808E 01	0.19808E-01	0.67702E 00	0.17586E-02	0.14270E 04	0.29599E 01	0.19809E-01	0.67887E 00	0.17599E-02
0.14305E 04	0.29307E 01	0.19755E-01	0.68147E 00	0.17619E-02	0.14341E 04	0.29697E 01	0.19734E-01	0.67800E 00	0.17510E-02
0.14377E 04	0.29186E 01	0.19600E-01	0.68256E 00	0.17687E-02	0.14413E 04	0.29179E C1	0.19816E-01	0.68263E 00	0.17704E-02
0.14450E 04	0.29083E 01	0.19887E-01	0.68345E 00	0.17788E-02	0.14486E 04	0.29707E 01	0.19965E-01	0.67791E 00	0.17713E-02
0.14522E 04	0.29517E 01	0.19914E-01	0.67608E 00	0.17620E-02	0.14559E 04	0.29766E 01	0.19809E-01	0.67738E 00	0.17760E-02
0.14596E 04	0.30321E 01	0.19845E-01	0.67250E 00	0.17466E-02	0.14633E 04	0.30633E C1	0.20133E-01	0.66970E 00	0.17645E-02
0.14670E 04	0.30435E 01	0.19982E-01	0.67151E 00	0.17560E-02	0.14707E 04	0.29391E 01	0.19935E-01	0.68073E 00	0.17760E-02
0.14745E 04	0.29656E 01	0.19635E-01	0.67835E 00	0.17432E-02	0.14782E 04	0.29754E 01	0.19469E-01	0.67749E 00	0.17262E-02
0.14820E 04	0.29831E 01	0.19557E-01	0.67683E 00	0.17323E-02	0.14857E 04	0.29939E 01	0.19682E-01	0.67586E 00	0.17409E-02
0.14895E 04	0.30332E 01	0.19642E-01	0.67237E 00	0.17288E-02	0.14933E 04	0.30408E 01	0.19560E-01	0.67174E 00	0.17155E-02
0.14972E 04	0.30852E 01	0.19543E-01	0.66784E 00	0.17081E-02	0.15010E 04	0.31592E 01	0.19470E-01	0.66140E 00	0.16853E-02
0.15049E 04	0.31905E 01	0.19553E-01	0.65870E 00	0.16856E-02	0.15087E 04	0.32012E 01	0.19701E-01	0.65777E 00	0.16959E-02
0.15126E 04	0.32295E 01	0.19685E-01	0.65536E 00	0.17038E-02	0.15165E 04	0.32858E C1	0.19768E-01	0.65057E 00	0.16853E-02
0.15204E 04	0.32583E 01	0.19566E-01	0.64438E 00	0.16744E-02	0.15243E 04	0.33071E 01	0.20344E-01	0.64208E 00	0.17171E-02
0.15283E 04	0.33865E 01	0.20358E-01	0.64203E 00	0.17106E-02	0.15322E 04	0.34708E 01	0.20315E-01	0.63498E 00	0.16882E-02
0.15362E 04	0.34715E 01	0.20413E-01	0.63491E 00	0.16962E-02	0.15402E 04	0.35011E 01	0.20281E-01	0.63247E 00	0.17067E-02
0.15442E 04	0.34966E 01	0.20481E-01	0.63285E 00	0.16963E-02	0.15482E 04	0.34857E 01	0.20557E-01	0.63374E 00	0.17050E-02
0.15523E 04	0.35259E 01	0.20253E-01	0.63043E 00	0.16710E-02	0.15563E 04	0.35168E 01	0.20258E-01	0.63115E 00	0.16733E-02
0.15604E 04	0.34581E 01	0.20333E-01	0.63601E 00	0.16928E-02	0.15645E 04	0.34941E 01	0.20329E-01	0.63303E 00	0.16842E-02
0.15686E 04	0.35145E 01	0.20363E-01	0.63135E 00	0.16826E-02	0.15727E 04	0.35835E 01	0.20215E-01	0.62570E 00	0.16552E-02
0.15768E 04	0.36388E 01	0.20081E-01	0.62116E 00	0.16324E-02	0.15809E 04	0.36497E 01	0.20195E-01	0.62026E 00	0.16392E-02
0.15851E 04	0.37572E 01	0.20701E-01	0.61160E 00	0.16569E-02	0.15893E 04	0.37632E 01	0.20778E-01	0.61113E 00	0.16618E-02
0.15935E 04	0.37886E 01	0.20835E-01	0.60910E 00	0.16609E-02	0.15977E 04	0.37517E 01	0.20816E-01	0.61204E 00	0.16673E-02
0.16019E 04	0.37265E 01	0.20755E-01	0.61407E 00	0.16679E-02	0.16062E 04	0.37333E 01	0.20574E-01	0.61352E 00	0.16520E-02
0.16104E 04	0.37527E 01	0.20793E-01	0.61197E 00	0.16653E-02	0.16147E 04	0.37173E 01	0.20897E-01	0.61483E 00	0.16815E-02
0.16183E 04	0.37338E 01	0.25578E-01	0.61590E 00	0.20617E-02	0.16212E 04	0.37045E 01	0.25598E-01	0.61584E 00	0.20621E-02
0.16261E 04	0.36895E 01	0.25845E-01	0.61706E 00	0.20818E-02	0.16270E 04	0.37527E 01	0.25759E 01	0.61196E 00	0.20630E-02
0.16340E 04	0.36977E 01	0.25841E-01	0.62369E 00	0.20744E-02	0.16328E 04	0.36829E 01	0.25291E-01	0.61762E 00	0.20443E-02
0.16419E 04	0.37427E 01	0.25530E-01	0.61277E 00	0.20474E-02	0.16386E 04	0.36263E 01	0.25396E-01	0.60609E 00	0.20140E-02
0.16495E 04	0.40334E 01	0.25335E-01	0.58989E 00	0.15558E-02	0.16444E 04	0.41809E 01	0.25522E-01	0.57862E 00	0.19326E-02
0.16474E 04	0.43818E 01	0.25886E-01	0.56359E 00	0.15093E-02	0.16503E 04	0.43625E 01	0.26135E-01	0.56505E 00	0.19327E-02
0.16533E 04	0.41643E 01	0.25757E-01	0.57988E 00	0.19547E-02	0.16563E 04	0.39073E 01	0.25492E-01	0.59575E 00	0.20009E-02
0.16592E 04	0.37515E 01	0.25512E-01	0.61207E 00	0.20436E-02	0.16622E 04	0.36822E 01	0.25410E-01	0.61764E 00	0.20535E-02
0.16652E 04	0.35122E 01	0.25388E-01	0.63157E 00	0.20985E-02	0.16682E 04	0.34866E 01	0.25597E-01	0.63365E 00	0.21248E-02
0.16712E 04	0.34026E 01	0.25668E-01	0.64067E 00	0.21522E-02	0.16757E 04	0.33392E 01	0.25119E-01	0.64603E 00	0.21538E-02
0.16818E 04	0.32798E 01	0.17725E-01	0.65104E 00	0.15102E-02	0.16879E 04	0.31986E 01	0.17689E-01	0.65800E 00	0.15232E-02
0.16904E 04	0.31304E 01	0.16829E-01	0.66030E 00	0.14621E-02	0.16947E 04	0.30903E 01	0.16580E-01	0.66737E 00	0.14481E-02
0.17064E 04	0.30672E 01	0.16550E-01	0.66940E 00	0.14499E-02	0.17126E 04	0.30981E 01	0.16548E-01	0.66609E 00	0.14430E-02
0.17189E 04	0.30919E 01	0.16662E-01	0.66725E 00	0.14498E-02	0.17252E 04	0.30265E 01	0.16442E-01	0.67297E 00	0.14461E-02
0.17315E 04	0.30106E 01	0.16530E-01	0.67438E 00	0.14589E-02	0.17379E 04	0.29886E 01	0.16788E-01	0.67635E 00	0.14860E-02
0.17443E 04	0.29230E 01	0.16719E-01	0.68216E 00	0.14926E-02	0.17507E 04	0.29169E 01	0.17119E-01	0.68269E 00	0.15255E-02
0.17572E 04	0.29118E 01	0.17459E-01	0.68319E 00	0.15288E-02	0.17637E 04	0.28720E 01	0.16918E-01	0.68673E 00	0.15205E-02
0.17703E 04	0.28595E 01	0.16738E-01	0.68795E 00	0.15067E-02	0.17769E 04	0.28120E 01	0.16829E-01	0.69162E 00	0.15245E-02
0.17835E 04	0.28022E 01	0.16808E-01	0.69303E 00	0.15281E-02	0.17901E 04	0.28223E 01	0.16629E-01	0.69129E 00	0.15043E-02
0.17968E 04	0.27345E 01	0.16534E-01	0.69924E 00	0.15130E-02	0.18036E 04	0.27312E 01	0.16544E-01	0.69951E 00	0.15145E-02
0.18103E 04	0.26787E 01	0.16408E-01	0.70432E 00	0.15124E-02	0.18172E 04	0.26516E 01	0.16377E-01	0.70681E 00	0.15149E-02
0.18240E 04	0.26610E 01	0.16544E-01	0.70597E 00	0.15285E-02	0.18309E 04	0.26499E 01	0.16603E-01	0.70700E 00	0.15362E-02
0.18378E 04	0.26211E 01	0.16447E							

ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR
0.23810E 04	0.25282E 01	0.25223E-01	0.71833E 00	C.22711E-C2	0.23862E 04	0.24958E 01	0.25402E-01	0.72139E 00	C.22981E-02
0.23913E 04	0.25700E 01	0.25269E-01	0.71442E 00	0.2362E-F02	0.23965E 04	0.25980E 01	0.25215E-01	0.71180E 00	0.2289E-F02
0.24017E 04	0.25877E 01	0.25341E-01	0.71283E 00	C.23640E-C2	0.24069E 04	0.26311E 01	0.25278E-01	0.70872E 00	0.2344E-F02
0.24121E 04	0.26177E 01	0.25374E-01	0.70263E 00	0.2332E-F02	0.24173E 04	0.26751E 01	0.25439E-01	0.70665E 00	0.2344E-F02
0.24226E 04	0.26390E 01	0.25222E-01	0.70330E 00	0.23196E-F02	0.24278E 04	0.27461E 01	0.25284E-01	0.69813E 00	0.23100E-F02
0.24331E 04	0.26786E 01	0.25463E-01	0.69521E 00	C.23167E-C2	0.24389E 04	0.28722E 01	0.25719E-01	0.68672E 00	0.23169E-F02
0.24437E 04	0.27213E 01	0.25593E-01	0.68233E 00	0.23091E-F02	0.24491E 04	0.29399E 01	0.25844E-01	0.68065E 00	0.23021E-F02
0.24544E 04	0.27885E 01	0.25707E-01	0.67633E 00	C.22754E-C2	0.24598E 04	0.29778E 01	0.25784E-01	0.67732E 00	0.22856E-F02
0.24652E 04	0.28618E 01	0.25983E-01	0.66989E 00	C.22779E-C2	0.24706E 04	0.30389E 01	0.25934E-01	0.67189E 00	0.22805E-F02
0.24760E 04	0.30102E 01	0.25926E-01	0.67441E 00	0.22795E-F02	0.24815E 04	0.30575E 01	0.25952E-01	0.67027E 00	0.22764E-F02
0.24868E 04	0.29952E 01	0.25749E-01	0.67573E 00	C.22712E-C2	0.24924E 04	0.30261E 01	0.25872E-01	0.67301E 00	0.22787E-F02
0.24976E 04	0.30810E 01	0.25576E-01	0.66821E 00	0.22716E-F02	0.25034E 04	0.31324E 01	0.26172E-01	0.66370E 00	0.22734E-F02
0.25090E 04	0.31522E 01	0.26192E-01	0.66200E 00	0.22692E-F02	0.25145E 04	0.31401E 01	0.26146E-01	0.66306E 00	0.22688E-F02
0.25201E 04	0.31968E 01	0.26325E-01	0.65816E 00	0.22675E-F02	0.25257E 04	0.32346E 01	0.26401E-01	0.65491E 00	0.22629E-F02
0.25313E 04	0.32500E 01	0.26431E-01	0.65358E 00	0.22608E-F02	0.25369E 04	0.32326E 01	0.26527E-01	0.65511E 00	0.22743E-F02
0.25426E 04	0.32070E 01	0.26370E-01	0.65730E 00	C.22683E-C2	0.25482E 04	0.31903E 01	0.26497E-01	0.65874E 00	0.22844E-F02
0.25539E 04	0.31730E 01	0.26500E-01	0.66019E 00	C.22856E-C2	0.25596E 04	0.31554E 01	0.26350E-01	0.66174E 00	0.22802E-F02
0.25653E 04	0.30629E 01	0.26316E-01	0.66979E 00	0.23068E-F02	0.25711E 04	0.30893E 01	0.26222E-01	0.66752E 00	0.22906E-F02
0.25768E 04	0.30774E 01	0.26257E-01	0.66845E 00	0.22972E-F02	0.25826E 04	0.30675E 01	0.26415E-01	0.66937E 00	0.23140E-F02
0.25884E 04	0.30011E 01	0.26497E-01	0.67523E 00	0.23416E-F02	0.25942E 04	0.29765E 01	0.26400E-01	0.67792E 00	0.2343E-F02
0.26001E 04	0.29546E 01	0.26202E-01	0.67935E 00	C.23275E-C2	0.26059E 04	0.29858E 01	0.26162E-01	0.67657E 00	0.23165E-F02
0.26118E 04	0.30239E 01	0.26263E-01	0.67320E 00	C.23139E-C2	0.26177E 04	0.29337E 01	0.26326E-01	0.68120E 00	0.23470E-F02
0.26236E 04	0.25735E 01	0.26481E-01	0.67767E 00	0.23486E-F02	0.26295E 04	0.29246E 01	0.26388E-01	0.68202E 00	0.23554E-F02
0.26355E 04	0.28650E 01	0.26440E-01	0.68735E 00	0.23785E-C2	0.26415E 04	0.28077E 01	0.26673E-01	0.69255E 00	0.24174E-F02
0.26475E 04	0.28600E 01	0.26815E-01	0.68785E 00	0.24140E-F02	0.26535E 04	0.28063E 01	0.27082E-01	0.69266E 00	0.24550E-F02
0.26595E 04	0.29052E 01	0.27375E-01	0.68375E 00	0.24496E-F02	0.26656E 04	0.28668E 01	0.27983E-01	0.68722E 00	0.25168E-F02
0.26717E 04	0.28855E 01	0.28509E-01	0.68552E 00	0.25576E-C2	0.26778E 04	0.29102E 01	0.28899E-01	0.68334E 00	0.25844E-F02
0.26839E 04	0.29135E 01	0.29255E-01	0.68299E 00	0.26149E-F02	0.26901E 04	0.29108E 01	0.29763E-01	0.68323E 00	0.26613E-F02
0.26962E 04	0.28859E 01	0.30295E-01	0.68551E 00	C.27179E-C2	0.27024E 04	0.28222E 01	0.30748E-01	0.69124E 00	0.28171E-F02
0.27086E 04	0.26397E 01	0.31142E-01	0.68966E 00	C.26109E-C2	0.27148E 04	0.28021E 01	0.31141E-01	0.69308E 00	0.28246E-F02
0.27211E 04	0.27888E 01	0.31153E-01	0.69427E 00	0.28342E-F02	0.27274E 04	0.26880E 01	0.31203E-01	0.70345E 00	0.28727E-F02
0.27337E 04	0.26767E 01	0.31150E-01	0.70458E 00	0.27276E-C2	0.27400E 04	0.26196E 01	0.30886E-01	0.70981E 00	0.28651E-F02
0.27463E 04	0.26695E 01	0.30761E-01	0.70515E 00	0.28388E-F02	0.27527E 04	0.25560E 01	0.30534E-01	0.71571E 00	0.28600E-F02
0.27591E 04	0.25960E 01	0.30392E-01	0.71119E 00	0.28320E-F02	0.27657E 04	0.25759E 01	0.30538E-01	0.71388E 00	0.28538E-F02
0.27719E 04	0.25347E 01	0.30653E-01	0.71771E 00	C.26752E-C2	0.27783E 04	0.25878E 01	0.30616E-01	0.72222E 00	0.28993E-F02
0.27848E 04	0.25746E 01	0.30863E-01	0.71402E 00	0.28814E-F02	0.27913E 04	0.25768E 01	0.30958E-01	0.71377E 00	0.28918E-F02
0.27978E 04	0.25508E 01	0.30653E-01	0.71627E 00	C.26735E-C2	0.28044E 04	0.25026E 01	0.30404E-01	0.72077E 00	0.28680E-F02
0.28109E 04	0.25052E 01	0.30275E-01	0.72047E 00	0.28547E-F02	0.28175E 04	0.24782E 01	0.30641E-01	0.72304E 00	0.28954E-F02
0.28241E 04	0.24968E 01	0.30571E-01	0.72126E 00	0.28857E-F02	0.28308E 04	0.25231E 01	0.30578E-01	0.71885E 00	0.28676E-F02
0.28374E 04	0.25203E 01	0.30468E-01	0.71912E 00	C.26674E-C2	0.28444E 04	0.24729E 01	0.30240E-01	0.72354E 00	0.28644E-F02
0.28508E 04	0.25011E 01	0.30287E-01	0.72090E 00	0.28576E-F02	0.28575E 04	0.23709E 01	0.30274E-01	0.73331E 00	0.29054E-F02
0.28643E 04	0.24249E 01	0.30330E-01	0.72812E 00	C.28962E-C2	0.28710E 04	0.23859E 01	0.30258E-01	0.73185E 00	0.28981E-F02
0.28778E 04	0.24426E 01	0.30227E-01	0.72644E 00	C.26738E-C2	0.28844E 04	0.23712E 01	0.30327E-01	0.73326E 00	0.29142E-F02
0.28915E 04	0.23746E 01	0.30406E-01	0.73294E 00	0.29165E-F02	0.28984E 04	0.23151E 01	0.30329E-01	0.73663E 00	0.29317E-F02
0.29053E 04	0.23370E 01	0.30336E-01	0.73657E 00	0.29243E-F02	0.29122E 04	0.23596E 01	0.30377E-01	0.73437E 00	0.29155E-F02
0.29192E 04	0.22912E 01	0.30323E-01	0.74098E 00	0.29406E-F02	0.29261E 04	0.22630E 01	0.30480E-01	0.74369E 00	0.29666E-F02
0.29331E 04	0.22532E 01	0.30611E-01	0.74466E 00	0.29832E-F02	0.29401E 04	0.23472E 01	0.30791E-01	0.73554E 00	0.29640E-F02
0.29474E 04	0.22703E 01	0.30839E-01	0.74299E 00	C.29587E-C2	0.29543E 04	0.22326E 01	0.30656E-01	0.74672E 00	0.29558E-F02
0.29614E 04	0.21887E 01	0.30291E-01	0.75099E 00	0.29770E-F02	0.29685E 04	0.21651E 01	0.30694E-01	0.75336E 00	0.29274E-F02
0.29756E 04	0.21612E 01	0.29136E-01	0.75167E 00	0.26739E-C2	0.29828E 04	0.21130E 01	0.28718E-01	0.75844E 00	0.28505E-F02
0.29900E 04	0.21067E 01	0.28428E-01	0.75907E 00	0.26241E-C2	0.29972E 04	0.21348E 01	0.28259E-01	0.75629E 00	0.27970E-F02
0.30045E 04	0.21204E 01	0.28461E-01	0.75773E 00	0.28164E-F02	0.30118E 04	0.22435E 01	0.28417E-01	0.74563E 00	0.27730E-F02
0.30191E 04	0.22856E 01	0.28469E-01	0.74157E 00	0.27629E-C2	0.30260E 04	0.22701E 01	0.28366E-01	0.74300E 00	0.27583E-F02
0.30338E 04	0.24067E 01	0.28439E-01	0.72986E 00	0.27164E-F02	0.30412E 04	0.23799E 01	0.28541E-01	0.73240E 00	0.27357E-F02
0.30486E 04	0.25777E 01	0.28655E-01	0.71370E 00	0.26764E-F02	0.30560E 04	0.25798E 01	0.28633E-01	0.71351E 00	0.26737E-F02
0.30635E 04	0.25550E 01	0.28610E-01	0.71580E 00	0.26802E-C2	0.30710E 04	0.24254E 01	0.28486E-01	0.72805E 00	0.27102E-F02
0.30785E 04	0.22889E 01	0.28413E-01	0.74120E 00	0.27562E-F02	0.30860E 04	0.21199E 01	0.28275E-01	0.75780E 00	0.28041E-F02
0.30936E 04	0.21172E 01	0.28330E-01	0.75804E 00	0.26105E-C2	0.31012E 04	0.21969E 01	0.28416E-01	0.75016E 00	0.27898E-F02
0.31089E 04	0.22797E 01	0.28390E-01	0.74208E 00	0.27576E-C2	0.31165E 04	0.23068E 01	0.28340E-01	0.73945E 00	0.27426E-F02
0.31242E 04	0.24729E 01	0.28390E-01	0.72355E 00	0.26884E-F02	0.31319E 04	0.24118E 01	0.28365E-01	0.72935E 00	0.27075E-F02
0.31397E 04	0.23075E 01	0.28514E-01	0.73939E 00	C.27552E-C2	0.31475E 04	0.22869E 01	0.28525E-01	0.74145E 00	0.27669E-F02
0.31553E 04	0.21830E 01	0.28457E-01	0.75153E 00	0.27989E-F02	0.31631E 04	0.21768E 01	0.28108E-01	0.75219E 00	0.28225E-F02
0.31710E 04	0.21034E 01	0.28015E-01	0.75948E 00	0.27846E-F02	0.31789E 04	0.20705E 01	0.27555E-01	0.76766E 00	0.28084E-F02
0.31868E 04	0.23272E 01	0.27991E-01	0.76146E 00	0.27399E-F02	0.31948E 04	0.20818E 01	0.28006E-01	0.76158E 00	0.27914E-F02
0.32027E 04	0.21827E 01	0.28167E-01	0.75657E 00	0.27889E-F02	0.32108E 04	0.20710E 01	0.28268E-01	0.76264E 00	0.28214E-F02
0.32188E 04	0.21582E 01	0.28205E-01	0.75399E 00	0.27877E-C2	0.32269E 04	0.21900E 01	0.28244E-01	0.75083E 00	0.27754E-F02
0.32350E 04	0.22178E 01	0.28477E-01	0.74812E 00	0.27882E-F02	0.32431E 04	0.22415E 01	0.28481E-01	0.74582E 00	0.27755E-F02
0.32513E 04	0.22234E 01	0.28445E-01	0.74759E 00	0.27830E-F02	0.32595E 04	0.22081E 01	0.28439E-01	0.74909E 00	0.27880E-F02
0.32677E 04	0.21930E 01	0.28503E-01	0.75055E 00	0.27957E-C2	0.32760E 04	0.21263E 01	0.28467E-01	0.75712E 00	0.28207E-F02
0.32843E 04	0.21107E 01	0.28389E-01	0.75873E 00	0.28189E-F02	0.32926E 04	0.20086E 01	0.28291E-01	0.76086E 00	0.28171E-F02
0.33009E 04	0.20346E 01	0.28051E-01	0.76626E 00	0.26131E-F02	0.33093E 04	0.19541E 01	0.27999E-01	0.77439E 00	0.28375E-F02
0.33177E 04	0.19537E 01	0.28030E-01	0.77442E 00	0.28409E-F02	0.33262E 04	0.19113E 01	0.27893E-01	0.77874E 00	0.28428E-F02
0.33347E 04	0.19391E 01	0.27945E-01	0.77591E 00	0.28377E-F02	0.33432E 04	0.18617E 01	0.28025E-01	0.78381E 00	0.28748E-F02
0.33517E 04	0.18628E 01	0.28081E-01	0.78366E 00	C.28800E-C2	0.33603E 04	0.19051E 01	0.28145E-01	0.77937E 00	0.28707E-F02
0.33689E 04	0.19503E 01	0.28161E-01	0.77479E 00	0.28555E-F02	0.33776E 04				

ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR	ENERGY	X-SECTION	X-ERROR	TRANS	T-ERROR
0.43295E-04	0.20455E-01	0.27320E-01	0.76517E-00	0.27357E-02	0.43421E-04	0.18924E-01	0.27270E-01	0.78067E-00	0.27861E-02
0.43548E-04	0.19271E-01	0.27221E-01	0.77712E-00	0.27684E-02	0.43675E-04	0.19628E-01	0.27178E-01	0.77351E-00	0.27513E-02
0.43603E-04	0.20010E-01	0.27134E-01	0.76967E-00	0.27332E-02	0.43931E-04	0.21084E-01	0.27268E-01	0.75890E-00	0.27082E-02
0.44060E-04	0.21032E-01	0.27194E-01	0.75944E-00	0.27028E-02	0.44190E-04	0.20731E-01	0.26994E-01	0.76241E-00	0.26935E-02
0.44320E-04	0.20261E-01	0.26893E-01	0.76716E-00	0.27001E-02	0.44451E-04	0.21289E-01	0.26973E-01	0.75686E-00	0.26717E-02
0.44582E-04	0.21343E-01	0.27033E-01	0.75637E-00	0.26759E-02	0.44714E-04	0.21685E-01	0.27201E-01	0.75258E-00	0.26805E-02
0.44846E-04	0.22227E-01	0.27166E-01	0.74766E-00	0.26581E-02	0.44979E-04	0.22462E-01	0.27027E-01	0.74532E-00	0.26363E-02
0.45112E-04	0.22362E-01	0.27073E-01	0.74631E-00	0.26442E-02	0.45247E-04	0.21679E-01	0.27029E-01	0.75303E-00	0.26637E-02
0.45381E-04	0.21784E-01	0.26939E-01	0.75198E-00	0.26511E-02	0.45517E-04	0.21982E-01	0.26940E-01	0.75002E-00	0.26443E-02
0.45653E-04	0.21970E-01	0.26885E-01	0.75015E-00	0.26354E-02	0.45789E-04	0.21199E-01	0.26905E-01	0.75779E-00	0.26622E-02
0.45926E-04	0.20949E-01	0.26935E-01	0.76026E-00	0.26800E-02	0.46061E-04	0.20536E-01	0.26894E-01	0.76437E-00	0.26953E-02
0.46203E-04	0.21129E-01	0.26833E-01	0.75845E-00	0.26638E-02	0.46342E-04	0.20771E-01	0.26868E-01	0.76200E-00	0.26794E-02
0.46481E-04	0.19564E-01	0.26872E-01	0.77415E-00	0.27226E-02	0.46622E-04	0.19408E-01	0.26840E-01	0.77574E-00	0.27249E-02
0.46763E-04	0.20075E-01	0.26789E-01	0.76907E-00	0.26963E-02	0.46904E-04	0.20460E-01	0.26818E-01	0.76512E-00	0.26854E-02
0.47047E-04	0.19310E-01	0.26770E-01	0.77676E-00	0.27213E-02	0.47190E-04	0.19067E-01	0.26648E-01	0.77922E-00	0.27174E-02
0.47333E-04	0.16003E-01	0.26483E-01	0.79017E-00	0.27387E-02	0.47477E-04	0.17702E-01	0.26369E-01	0.79324E-00	0.27374E-02
0.47622E-04	0.17845E-01	0.26474E-01	0.79177E-00	0.27432E-02	0.47768E-04	0.18489E-01	0.26576E-01	0.78510E-00	0.27307E-02
0.47914E-04	0.18147E-01	0.26561E-01	0.78863E-00	0.27413E-02	0.48061E-04	0.18337E-01	0.26581E-01	0.78667E-00	0.27367E-02
0.48208E-04	0.18452E-01	0.26577E-01	0.78550E-00	0.27321E-02	0.48357E-04	0.17788E-01	0.26524E-01	0.79236E-00	0.27505E-02
0.48506E-04	0.17907E-01	0.26555E-01	0.79115E-00	0.27495E-02	0.48655E-04	0.17773E-01	0.26573E-01	0.79251E-00	0.27560E-02
0.48806E-04	0.18446E-01	0.26633E-01	0.78560E-00	0.27383E-02	0.48957E-04	0.18528E-01	0.26618E-01	0.78478E-00	0.27337E-02
0.49108E-04	0.18780E-01	0.26557E-01	0.78212E-00	0.27183E-02	0.49261E-04	0.18322E-01	0.26642E-01	0.78682E-00	0.27434E-02
0.49414E-04	0.18072E-01	0.26720E-01	0.78946E-00	0.27607E-02	0.49568E-04	0.16824E-01	0.26515E-01	0.80246E-00	0.27846E-02
0.49722E-04	0.16268E-01	0.26443E-01	0.80828E-00	0.27971E-02	0.49878E-04	0.15922E-01	0.26417E-01	0.81195E-00	0.28071E-02
0.50034E-04	0.16592E-01	0.26512E-01	0.80484E-00	0.27926E-02	0.50190E-04	0.16871E-01	0.26559E-01	0.81191E-00	0.27873E-02
0.50348E-04	0.19281E-01	0.26503E-01	0.79517E-00	0.27581E-02	0.50506E-04	0.16923E-01	0.26630E-01	0.80141E-00	0.27930E-02
0.50665E-04	0.17722E-01	0.26692E-01	0.79309E-00	0.27705E-02	0.50825E-04	0.17936E-01	0.26651E-01	0.79908E-00	0.27582E-02
0.50986E-04	0.18366E-01	0.26604E-01	0.78639E-00	0.27385E-02	0.51147E-04	0.18616E-01	0.26641E-01	0.78384E-00	0.27328E-02
0.51309E-04	0.18797E-01	0.26705E-01	0.78195E-00	0.27328E-02	0.51472E-04	0.18142E-01	0.26748E-01	0.78869E-00	0.27609E-02
0.51635E-04	0.18655E-01	0.26754E-01	0.78339E-00	0.27429E-02	0.51800E-04	0.18659E-01	0.26607E-01	0.78337E-00	0.27483E-02
0.51965E-04	0.18508E-01	0.26762E-01	0.78493E-00	0.27451E-02	0.52131E-04	0.18392E-01	0.26739E-01	0.78612E-00	0.27509E-02
0.52298E-04	0.17373E-01	0.26708E-01	0.79667E-00	0.27847E-02	0.52465E-04	0.17593E-01	0.26712E-01	0.79442E-00	0.27722E-02
0.52634E-04	0.17890E-01	0.26637E-01	0.79132E-00	0.27585E-02	0.52803E-04	0.17234E-01	0.26625E-01	0.79815E-00	0.27811E-02
0.52973E-04	0.16737E-01	0.26610E-01	0.80337E-00	0.27978E-02	0.53144E-04	0.16948E-01	0.26565E-01	0.80110E-00	0.27851E-02
0.53315E-04	0.17378E-01	0.26664E-01	0.79674E-00	0.27740E-02	0.53488E-04	0.18026E-01	0.26818E-01	0.78988E-00	0.27723E-02
0.53661E-04	0.17408E-01	0.27107E-01	0.79633E-00	0.28250E-02	0.53835E-04	0.17999E-01	0.27291E-01	0.79016E-00	0.28221E-02
0.54010E-04	0.16712E-01	0.27029E-01	0.78286E-00	0.27652E-02	0.54186E-04	0.18813E-01	0.26811E-01	0.78180E-00	0.27452E-02
0.54363E-04	0.19230E-01	0.26766E-01	0.77757E-00	0.27327E-02	0.54544E-04	0.19394E-01	0.26877E-01	0.77588E-00	0.27588E-02
0.54719E-04	0.19424E-01	0.26800E-01	0.77559E-00	0.27244E-02	0.54899E-04	0.19022E-01	0.26786E-01	0.77970E-00	0.27336E-02
0.55079E-04	0.19281E-01	0.26833E-01	0.77517E-00	0.27702E-02	0.55268E-04	0.19494E-01	0.26821E-01	0.77577E-00	0.27357E-02
0.55442E-04	0.19013E-01	0.26817E-01	0.77977E-00	0.27367E-02	0.55625E-04	0.19065E-01	0.26861E-01	0.77922E-00	0.27393E-02
0.55809E-04	0.18336E-01	0.26822E-01	0.78672E-00	0.27678E-02	0.55994E-04	0.18495E-01	0.26899E-01	0.78506E-00	0.27636E-02
0.56180E-04	0.18533E-01	0.26927E-01	0.78468E-00	0.27652E-02	0.56366E-04	0.18185E-01	0.26816E-01	0.78630E-00	0.27665E-02
0.56554E-04	0.18529E-01	0.26736E-01	0.78471E-00	0.27457E-02	0.56742E-04	0.17958E-01	0.26725E-01	0.79061E-00	0.27652E-02
0.56932E-04	0.18405E-01	0.26634E-01	0.78608E-00	0.27401E-02	0.57122E-04	0.19179E-01	0.26782E-01	0.77811E-00	0.27272E-02
0.57314E-04	0.19433E-01	0.26801E-01	0.77338E-00	0.27127E-02	0.57506E-04	0.19423E-01	0.26782E-01	0.77559E-00	0.27185E-02
0.57699E-04	0.19414E-01	0.26760E-01	0.77573E-00	0.27168E-02	0.57894E-04	0.19358E-01	0.26724E-01	0.77626E-00	0.27149E-02
0.58089E-04	0.19441E-01	0.26754E-01	0.77550E-00	0.27194E-02	0.58285E-04	0.18872E-01	0.26730E-01	0.78118E-00	0.27322E-02
0.58483E-04	0.18561E-01	0.26721E-01	0.78441E-00	0.27431E-02	0.58688E-04	0.18200E-01	0.26715E-01	0.78813E-00	0.27555E-02
0.58880E-04	0.18772E-01	0.26742E-01	0.78223E-00	0.27377E-02	0.59090E-04	0.19325E-01	0.26790E-01	0.77659E-00	0.27228E-02
0.59282E-04	0.18804E-01	0.26908E-01	0.78189E-00	0.27534E-02	0.59484E-04	0.18033E-01	0.26832E-01	0.78980E-00	0.27734E-02
0.59688E-04	0.16827E-01	0.26715E-01	0.80242E-00	0.28056E-02	0.59943E-04	0.17120E-01	0.26785E-01	0.79934E-00	0.27290E-02
0.60042E-04	0.16655E-01	0.27135E-01	0.80420E-00	0.28276E-02	0.60564E-04	0.16475E-01	0.27770E-01	0.80608E-00	0.27297E-02
0.60408E-04	0.17263E-01	0.27196E-01	0.79759E-00	0.27702E-02	0.61194E-04	0.16934E-01	0.27182E-01	0.78980E-00	0.27555E-02
0.60781E-04	0.17167E-01	0.27180E-01	0.79802E-00	0.28057E-02	0.61834E-04	0.17976E-01	0.27866E-01	0.79043E-00	0.27599E-02
0.61153E-04	0.17118E-01	0.27180E-01	0.79935E-00	0.28121E-02	0.62485E-04	0.16306E-01	0.28150E-01	0.80789E-00	0.27310E-02
0.61535E-04	0.15835E-01	0.27204E-01	0.81268E-00	0.28395E-02	0.63146E-04	0.16299E-01	0.27203E-01	0.80775E-00	0.27348E-02
0.61917E-04	0.16320E-01	0.27183E-01	0.80771E-00	0.28305E-02	0.63817E-04	0.16032E-01	0.27779E-01	0.81080E-00	0.27311E-02
0.62300E-04	0.15698E-01	0.27174E-01	0.81433E-00	0.28206E-02	0.64499E-04	0.15929E-01	0.27174E-01	0.81189E-00	0.27310E-02
0.62684E-04	0.15783E-01	0.27165E-01	0.81341E-00	0.28169E-02	0.65192E-04	0.16434E-01	0.27188E-01	0.80652E-00	0.27310E-02
0.63068E-04	0.17040E-01	0.27122E-01	0.80014E-00	0.28256E-02	0.65897E-04	0.16947E-01	0.27191E-01	0.80112E-00	0.27284E-02
0.63452E-04	0.16554E-01	0.27132E-01	0.80527E-00	0.28202E-02	0.66612E-04	0.15611E-01	0.27171E-01	0.81526E-00	0.27317E-02
0.63836E-04	0.16722E-01	0.27190E-01	0.82480E-00	0.28413E-02	0.67340E-04	0.14175E-01	0.27165E-01	0.83073E-00	0.27350E-02
0.64220E-04	0.14320E-01	0.27164E-01	0.82917E-00	0.28481E-02	0.68080E-04	0.14715E-01	0.27162E-01	0.82489E-00	0.27340E-02
0.64604E-04	0.15989E-01	0.27154E-01	0.81127E-00	0.28303E-02	0.68827E-04	0.15698E-01	0.27182E-01	0.81433E-00	0.27326E-02
0.64988E-04	0.15704E-01	0.27176E-01	0.81426E-00	0.28227E-02	0.69596E-04	0.15920E-01	0.27180E-01	0.81194E-00	0.27317E-02
0.65372E-04	0.15743E-01	0.27162E-01	0.81386E-00	0.28179E-02	0.70374E-04	0.16440E-01	0.27183E-01	0.80691E-00	0.27305E-02
0.65756E-04	0.17663E-01	0.27196E-01	0.80308E-00	0.28302E-02	0.71165E-04	0.17506E-01	0.27198E-01	0.79447E-00	0.27285E-02
0.66140E-04	0.17446E-01	0.27203E-01	0.79592E-00	0.28497E-02	0.71959E-04	0.17468E-01	0.27072E-01	0.79573E-00	0.27298E-02
0.66524E-04	0.17679E-01	0.27213E-01	0.79355E-00	0.28591E-02	0.72766E-04	0.17183E-01	0.27230E-01	0.79872E-00	0.27337E-02
0.66908E-04	0.17042E-01	0.27231E-01	0.80012E-00	0.28334E-02	0.73618E-04	0.17123E-01	0.27486E-01	0.79928E-00	0.27552E-02
0.67292E-04	0.17343E-01	0.27240E-01	0.79700E-00	0.28366E-02	0.74465E-04	0.17212E-01	0.27312E-01	0.79835E-00	0.27332E-02
0.67676E-04	0.17471E-01	0.27214E-01	0.79568E-00	0.28132E-02	0.75326E-04	0.17614E-01	0.27064E-01	0.79417E-00	0.27293E-02
0.68060E-04	0.17705E-01	0.27203E-01	0.79322E-00	0.28276E-02	0.76202E-04	0.17396E-01	0.27196E-01	0.79644E-00	0.27284E-02
0.68444E-04	0.17002E-01	0.2							

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