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of the
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LOS ALAMOS • NEW MEXICO

Publications of Stanislaw M. Ulam

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University of California
LOS ALAMOS • NEW MEXICO

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Publications of Stanislaw M. Ulam

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Barbara Hendry

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INTRODUCTION

Repeated requests for lists of publications by Stanislaw M. Ulam led to the compilation of this bibliography.

The following sources were consulted in attempting completeness: American Mathematical Society, BULLETIN; ASTRONOMISCHE JAHRBUCH; BULLETIN SIGNALETIQUE. Pt. I. MATHEMATIQUES PURES ET APPLIQUEES; INDEX TRANSLATONIUM; JAHRBUCH UBER DIE FORTSCHRITTE DER MATHEMATIK; MATHEMATICAL REVIEWS; NUCLEAR SCIENCE ABSTRACTS; REFERATE ZHURNAL, MATEMATIKA; SCIENCE CITATION INDEX; Societe Polonaise de Mathematique, ANNALES; and ZENTRALBLATT FUR MATHEMATIK UND IHRE GRENZGEBIETE. The records of the LASL Technical Information Group; the catalogs of the LASL Libraries; and the bibliographies of LASL Research: LAMS-2895, LAMS-2895 Suppl.; and PUBLICATIONS OF LASL RESEARCH 1963, 1964, 1965, and 1966 were also used.

As each citation was encountered, a copy of the cited publication was obtained for the LASL libraries.

The compiler wishes to acknowledge the aid extended by the following people: S. M. Ulam, whose helpfulness was essential; L. M. Redman, Head, LASL Technical Information Group; C. J. Everett, W. A. Beyer, Paul Stein, Mrs. Bernice S. Kelley, and Mrs. Margaret Gore, LASL Theoretical Division; Dr. M. Rueff, Head, Dept. of Mathematics and Physics, Swiss Federal Institute of Technology, Zurich; Library, Louisiana State University; Mathematics Dept., University of Colorado; and Mrs. Ramona Roybal and Mrs. Marcela Martinez, who typed the bibliography.

FOREWORD

Stanislaw Marcin Ulam was born in Lwow, Poland, in 1909. He received his M.Sc. at the Polytechnic Institute there in 1932 and his Ph.D. in 1933. He came to the United States to the Institute for Advanced Study at Princeton, New Jersey, in late 1935 at the invitation of John von Neumann. From 1936 to 1940 he was at Harvard, Lecturer in Mathematics and member of the Society of Fellows. Following two years at the University of Wisconsin as Assistant Professor of Mathematics, he came to Los Alamos, New Mexico, to join the nuclear weapon laboratory under the Manhattan Engineer District. Although he spent several semesters on university campuses at Harvard, MIT, California at La Jolla, and Colorado (Boulder), he remained at Los Alamos in progressively more senior positions until 1967, when he left to head the Department of Mathematics at Boulder. He still keeps a home in Santa Fe, New Mexico.

A recitation of Stan's professional posts merely begins the tale. This bibliography speaks for itself: 184 different publications, including books, journal articles, conference papers, technical reports, and patents. One patent, obtained in England, is on a spaceship propelled by firing nuclear explosives behind it -- that far-out idea currently offers the best prospect for delivering large payloads to destinations in space. There is a patent disclosure (which is not expected to be published in the near future) for the invention of the hydrogen bomb in collaboration with Dr. Edward Teller. Stan's interests have been provocative, heuristic: in nuclear science, in computer programs for playing chess, in calculating the growth patterns of biological systems, and, especially, in

mathematics both for its own sake and for the sake of solving problems in many fields.

The most distinguishing personal traits of Stan Ulam are his friendliness, simplicity, tenacity, and a certain disregard of formality or other mundane impertinences. In the files of this group, we list 55 titles for publications by him. One of our functions is to monitor all material published from this Laboratory to assure no breach of security or propriety and to keep track of what we do publish. Everyone else sends his proposed paper through his supervisors to us before mailing it. Most of our files on Ulam's publications were opened when he sent us a reprint and an invoice -- yet there was never a problem about any of the papers.

In view of his habits, compiling this bibliography has not been simple. The compiler has reviewed all likely sources, whether or not indexed, written to sponsors of meetings where papers might be in proceedings, written to Polish sources, and enjoyed the help of Ulam's associates. Thanks are given to all who have helped, and to anyone who can add to this compilation (preferably by supplying a copy to make our collection complete).

Leslie M. Redman
Technical Information Group

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