THE INSTITUTE
FOR ADVANCED STUDY

PUBLICATIONS OF MEMBERS

1930 · 1954

PRINCETON, NEW JERSEY · 1955

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FOREWORD

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Publication of this bibliography marks the 25th Anniversary of the foundation of the Institute for Advanced Study. The certificate of incorporation of the Institute was signed on the 20th day of May, 1930. The first academic appointments, naming Albert Einstein and Oswald Veblen as Professors at the Institute, were approved two and one-half years later, in initiation of academic work.

The Institute for Advanced Study is devoted to the encouragement, support and patronage of learning—of science, in the old, broad, undifferentiated sense of the word. The Institute partakes of the character both of a university and of a research institute; but it also differs in significant ways from both. It is unlike a university, for instance, in its small size—its academic membership at any one time numbers only a little over a hundred. It is unlike a university in that it has no formal curriculum, no scheduled courses of instruction, no commitment that all branches of learning be represented in its faculty and members. It is unlike a research institute in that its purposes are broader, that it supports many separate fields of study, that, with one exception, it maintains no laboratories; and above all in that it welcomes temporary members, whose intellectual development and growth are one of its principal purposes. The Institute, in short, is devoted to learning, in the double sense of the continued education of the individual, and of the intellectual enterprise on which he is embarked.

The Institute for Advanced Study was founded by a gift of Mr. Louis Bamberger and his sister, Mrs. Felix Fuld. The Founders entrusted the general supervision and furthering of the Institute's purposes to a Board of Trustees of fifteen members, and to a Director elected by them, who should have primary responsibility for its academic affairs. In a letter addressed by the Founders to the first Trustees of the Institute, their original purposes were set forth. The Founders had in mind the creation of a graduate school, in which the students would have an opportunity to pursue work qualifying them for a higher degree, and in which the Faculty, unburdened by the teaching of undergraduates, would be free to devote themselves to their researches and the training of graduate students. In actual fact, from the very first, the Institute has developed in a rather different way. It has awarded no degrees, and admits to membership only those who have already taken their highest degree. Its members are characteristically at once teacher and student. It thus carries even further than originally contemplated those typical features which were to distinguish it from the college or the university. For its course had been defined in the Founders' letter: "The primary purpose is the pursuit of advanced learning and exploration in fields of pure science and high scholarship to the utmost degree that the facilities of the institution and the ability of the faculty and students will permit."

The first Professors at the Institute were eminent in pure mathematics and mathe-

matical physics. A little later, appointments were made in various fields of archaeological and historical study, and in economics. These initial appointments, like the Faculty appointments to be made later, helped to define, though they did not limit, the fields of study at the Institute. On the one hand, the inevitable and desirable limitation on the size of the Faculty, and the importance of some partial community of interest among its members, have clearly foreclosed the possibility of representing all academic disciplines. On the other hand, although we have no policy of excluding members whose interests are remote from those of any member of the Faculty, we tend to support with special emphasis fields in which we have some tradition of fruitful activity.

The Institute has until now sought to work without experimental facilities. In part this is because the Institute's limited funds could not adequately support such facilities; but it is also a natural consequence of an emphasis on, and solicitude for, temporary members, who manifestly cannot by themselves make feasible the operation of experimental programs. We have made one exception to this policy, and that a modest one, in maintaining—with the support of the Government—an electronic computer project devoted both to the logical and mathematical problems of high-speed computing, and to some of its practical applications.

At present the academic work of the Institute is carried on in two schools: a School of Mathematics and a School of Historical Studies. The members of the School of Mathematics are for the most part pure mathematicians and theoretical physicists; but there have been members who have worked in other sciences—chemistry, biology, psychology, astronomy, for example. The School of Historical Studies is perhaps broader still in scope, and includes in principle all learning for which the use of the historical method is a principal instrument. Here, too, our work tends to reflect the interests of the Faculty: Greek archaeology and epigraphy, Greek philosophy and philology, palaeography, mediaeval history and the history of art, modern history, politics and economics, the history of mathematics and the sciences. Here again there have been members, working alone or in concert, in disciplines not represented on the Faculty.

In these two schools, the Institute has some thirty permanent members, or members with appointments of long term. Among the permanent members, there are about fifteen who constitute the present Faculty.

A principal function of the Institute is to provide for members who come here for short periods, for a term or a year or two years. There are currently some hundred such members in residence. The Institute has always welcomed scholars from abroad and, in so far as possible, has tried to open its doors to qualified members from all parts of the world. More than half of our members come to us from Europe or from Asia.

The immediate effects of the Institute's work are in knowledge and in men. The new knowledge and the ideas find their way into the worldwide communities of science and scholarship, and the men take their part throughout the world in study, in teaching, in writing and in discovering new truth. History teaches—and even the brief history of the Institute confirms—that new knowledge leads to new power and new wisdom, and alters the destiny and heightens the dignity of man.

The new knowledge itself it disseminated in many ways—through lectures and seminars and intimate conversation, through letters and syllabi and notes. But the primary and the formal and the decisive means is publication, which is for the scholar both the definitive act of formulation, and the performance of his duty to his colleagues and to the world of science and of man. It has thus seemed appropriate to mark this anniversary by a record of what the members of the Institute have published, a literal record of the Institute's primary work. What has come of these ideas, what has become of the men who have held them or discovered them, how these have molded the present and the cast of the future, later historians may discover.

In compiling this bibliography we have limited ourselves to work done at the Institute, and to publication in its most elementary sense, to the printed word publicly available and generally accessible. The labor of compiling and editing this bibliography has been entrusted to the Institute Librarian, Judith Sachs. To her, for whose labors as Librarian all members of the Institute are grateful, we have a special debt for preparing this volume.

ROBERT OPPENHEIMER

BIBLIOGRAPHY

KEY TO ABBREVIATIONS

* An Asterisk following a Name indicates that the Bibliography may be incomplete.

Acad. Pol. Sci. Proc.   Academy of Political Science. Proceedings.
Acta Cryst.   Acta Crystallographica.
Acta Math.   Acta Mathematica.
Acta Sci. Math. Szeged   Acta Scientiarum Mathematicarum, Szeged.
Actas Acad. Ci. Lima   Actas de la Academia Nacional de Ciencias Exactas, Físicas y Naturales de Lima.
Amer. Econ. R.   American Economic Review.
Amer. Hist. R.   American Historical Review.
Amer. Inst. Iran. Art Bul.   Iranian Institute of America. Bulletin.
Amer. J. Archaeol.   American Journal of Archaeology.
Amer. J. Int. Law   American Journal of International Law.
Amer. J. Math.   American Journal of Mathematics.
Amer. J. Philol.   American Journal of Philology.
Amer. Math. Monthly   American Mathematical Monthly.
Amer. Orient. Soc. J.   American Oriental Society. Journal.
Amer. Pol. Sci. R.   American Political Science Review.
Amer. Scholar   American Scholar.
Anais Acad. Brasil. Ci.   Anais da Academia Brasileira de Ciencias.
Ann. Am. Ac.   Annals of the American Academy of Political and Social Science.
Ann. Inst. Fourier Grenoble   Université de Grenoble. Annales de l'Institut Fourier.
Ann. Mat. Pura Appl.   Annali di Matematica Pura ed Applicata.
Ann. Math. Statistics   Annals of Mathematical Statistics.
Ann. of Math. (2)   Annals of Mathematics, Series 2.
Ann. Sci. École Norm. Sup.   Annales Scientifiques de l'École Normale Supérieure.
Ark. Mat.   Arkiv för Matematik.
Ars Islam.   Ars Islamica.
Art Bul.   Art Bulletin.
Art in Am.   Art in America.
Art Q.   Detroit Institute of Arts. Art Quarterly.
Astrophys. J.   Astrophysical Journal.
Bull. Amer. Math. Soc.   Bulletin of the American Mathematical Society.
Bull. Amer. Meteorol. Soc.   Bulletin of the American Meteorological Society.
Bull. Atomic Sci.   Bulletin of the Atomic Scientists.
Bull. Corresp. Hellénique   Bulletin de Correspondance Hellénique.
Bull. Sci. Math.   Bulletin des Sciences Mathématiques.

C. R. Acad. Sci. Paris   Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences.

Canadian J. Math.   Canadian Journal of Mathematics.

Church Hist.   Church History.

Class. J.   Classical Journal.

Class. Philol.   Classical Philology.

Class. Q.   Classical Quarterly.

Class. R.   Classical Review.

Class. W.   Classical Weekly.

Comm. Pure Appl. Math.   Communications on Pure and Applied Mathematics.

Comment. Math. Helv.   Commentarii Mathematici Helvetici.

Compositio Math.   Compositio Mathematica.

Duke Math. J.   Duke Mathematical Journal.

Fogg Mus. Bull.   Harvard University. William Hayes Fogg Art Museum. Bulletin.

For. Affairs   Foreign Affairs.

Fund. Math.   Fundamenta Mathematicae.

Gaz. Beaux-Arts   Gazette des Beaux-Arts.

Helvetica Phys. Acta   Helvetica Physica Acta.

Indagationes Math.   Indagationes Mathematicae.

Int. Affairs   International Affairs.

J. Acoust. Soc. Amer.   Journal of the Acoustical Society of America.

J. Analyse Math.   Journal d'Analyse Mathématique.

J. Appl. Phys.   Journal of Applied Physics.

J. Chem. Phys.   Journal of Chemical Physics.

J. Econ. Hist.   Journal of Economic History.

J. Franklin Inst.   Journal of the Franklin Institute.

J. Hellen. Stud.   Journal of Hellenic Studies.

J. Hist. Ideas   Journal of the History of Ideas.

J. Indian Math. Soc. (N.S.)   Journal of the Indian Mathematical Society, New Series.

J. London Math. Soc.   Journal of the London Mathematical Society.

J. Math. Physics   Journal of Mathematics and Physics.

J. Math. Soc. Japan   Journal of the Mathematical Society of Japan.

J. Meteorol.   Journal of Meteorology.

J. Mod. Hist.   Journal of Modern History.

J. Pol.   Journal of Politics.

J. Pol. Econ.   Journal of Political Economy.

J. Rational Mech. Anal.   Journal of Rational Mechanics and Analysis.

J. Reine Angew. Math.   Journal für die Reine und Angewandte Mathematik.

J. Symbolic Logic   Journal of Symbolic Logic.

Jap. J. Math.   Japanese Journal of Mathematics.

Mag. Art.   Magazine of Art.

Math. Ann.   Mathematische Annalen.

Math. Nachr.   Mathematische Nachrichten.

Math. Notae   Mathematicae Notae.

Math. Tables and Other Aids to Computation   Mathematical Tables and Other Aids to Computation.

Math. Z.   Mathematische Zeitschrift.

Michigan Math. J.   Michigan Mathematical Journal.

Monatsh. Math.   Monatshefte für Mathematik.

Nederl. Akad. Wetensch. Proc.   Koninglijke Nederlandse Akademie van Wetenschappen. Proceedings.

Pacific J. Math.   Pacific Journal of Mathematics.

Philol. Q.   Philological Quarterly.

Philos. Mag.   Philosophical Magazine.

Philos. Sci.   Philosophy of Science.

Physical Rev. (2)   Physical Review, Series 2.

Pol. Sci. Q.   Political Science Quarterly.

Princeton Mus. Rec.   Princeton University. Museum of Historic Art. Record.

Proc. Amer. Math. Soc.   Proceedings of the American Mathematical Society.

Proc. Amer. Philos. Soc.   Proceedings of the American Philosophical Society.

Proc. Cambridge Philos. Soc.   Proceedings of the Cambridge Philosophical Society.

Proc. Japan Acad.   Proceedings of the Japan Academy.

Proc. London Math. Soc.   Proceedings of the London Mathematical Society.

Proc. Nat. Acad. Sci. USA   Proceedings of the National Academy of Sciences of the United States of America.

Proc. Roy. Soc. Edinburgh   Proceedings of the Royal Society of Edinburgh.

Proc. Roy. Soc. London   Proceedings of the Royal Society of London.

Progress Theoret. Physics   Progress of Theoretical Physics.

Publ. Inst. Mat. Univ. Nac. Litoral   Publicaciones del Instituto de Matemáticas de la Facultad de Ciencias Matemáticas, Universidad Nacional del Litoral.

Publ. Math. Debrecen   Publicationes Mathematicae, Debrecen.

Quart. Appl. Math.   Quarterly of Applied Mathematics.

Quart. J. Econ.   Quarterly Journal of Economics.

Quart. J. Math. Oxford Ser.   Quarterly Journal of Mathematics, Oxford Series.

Quart. J. Mech. Appl. Math.   Quarterly Journal of Mechanics and Applied Mathematics.

R. Pol.   Review of Politics.

Rend. Circ. Mat. Palermo   Rendiconti del Circolo Matematico di Palermo.

Rev. Modern Physics   Reviews of Modern Physics.

Revista Ci. Lima   Revista de Ciencias, Lima.

Riv. Mat. Univ. Parma Rivista di Matematica della Università di Parma.

Scripta Math. Scripta Mathematica.

Tohoku Math. J. Tohoku Mathematical Journal.

Trans. Amer. Math. Soc. Transactions of the American Mathematical Society.

Univ. Nac. Tucumán Revista Universidad Nacional de Tucumán. Facultad de Ciencias Exactas. Revista.

Univ. Roma Ist. Naz. Alta Mat. Rend. Mat. e Appl. Università di Roma. Istituto Nazionale di Alta Matematica. Rendiconti.

Walters J. Walters Art Gallery, Baltimore. Journal.

Warburg J. London University. Warburg Institute. Journal.

World Pol. World Politics.

Yale Law J. Yale Law Journal.

Yale R. Yale Review.

Z. Angew. Math. Phys. Zeitschrift für Angewandte Mathematik und Physik.

Z. Physik. Zeitschrift für Physik.

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    (1949/50)
GREEN, JOHN WILLIS, Department of Mathematics, University of California, Los Angeles 24, California.
    (1951/52)
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    (1949/50)
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    (1951/52)

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  (1953-1954)
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  (1950/51)

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  (1947/48, Second Term)
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  (1951/52, First Term)
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  (1936/37)
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  (1939-1942; Summer 1946; 1947/48)
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  (1952/53, First Term)
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  (1937/38; 1944/45; 1951-1952)
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  (1952/53, First Term)
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  (1947/48, First Term)
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  (1949/50)
HARDY, GODFREY H., Deceased.
  (1936/37, First Term)
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HARRIS, BRURIA KAUFMAN, see KAUFMAN, BRURIA.

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(1950/51)   (Assistant)

HASPELS, C. H. EMILIE, University of Amsterdam, Amsterdam, Netherlands.
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(1953/54)

HECKE, ERICH, Deceased.
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HECKSCHER, WILLIAM S., University of Utrecht, Utrecht, Netherlands.
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HEDLUND, GUSTAV A., Department of Mathematics, Yale University, New Haven 11, Connecticut.
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(1950/51)

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(1948-1950)   (Assistant)

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(1938-1940)

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HOCHSCHILD, GERHARD P., Department of Mathematics, University of Illinois, Urbana, Illinois.
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HOFFMAN, ALAN J., Applied Mathematics Laboratories, National Bureau of Standards, Washington 25, D.C.
(1950/51)

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HOLLAND, LEICESTER B., Deceased.
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    (1943-1946)
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    (1950-1952)
HUA, LOO-KENG
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HUEBSCH, WILLIAM M.
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(1954)

KAPLAN, SAMUEL, Department of Mathematics, Wayne University, Detroit 1, Michigan.
(1947/48)

KAPLANSKY, IRVING, Department of Mathematics, University of Chicago, Chicago 37, Illinois.
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KARPLUS, ROBERT, Department of Physics, University of California, Berkeley 4, California.
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(1947-1950; 1951-1954)

KAWADA, YUKIYOSI, College of General Education, University of Tokyo, Tokyo, Japan.
(1952-1954)

KEGAN, ADRIENNE KOCH, see KOCH, ADRIENNE.

KELLEY, JOHN L., Department of Mathematics, University of California, Berkeley 4, California.
(1945/46)

KELLOGG, ALFRED L., 224 Lawrence Avenue, Highland Park, New Jersey.
(1951/52)

KELLY, ISABELLE R., see RAUBITSCHEK, ISABELLE KELLY.

KELLY, JOHN BECKWITH, Department of Mathematics, Michigan State College, East Lansing, Michigan.
(1950/51)

KEMENY, JOHN G., Department of Mathematics, Dartmouth College, Hanover, New Hampshire.
(1948/49) (Assistant)

KENNAN, GEORGE F., The Institute for Advanced Study, Princeton, New Jersey.
(1950-1952; 1953-1954)

KENNEDY, EDWARD S., American University, Beirut, Lebanon.
(1949/50, Second Term; 1953/54, Second Term)

KENT, GORDON, Cruft Laboratory of Physics, Harvard University, Cambridge 38, Massachusetts.
(1952-1953)

KENT, JOHN H., University of Vermont, Burlington, Vermont.
(Summers 1946, 1947, 1948)

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(1936-1938)

KIANG, TSAI-HAN
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KIMBALL, SPOFFORD H., University of Maine, Orono, Maine.
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KINOSHITA, TOICHIRO
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(1936-1938)   (Assistant)
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(1954)
KOCH, ADRIENNE, Division of General Education, New York University, New York 3, New York.
(1944/45, Second Term)
KOCHEN, MANFRED, Electronic Computer Project, The Institute for Advanced Study, Princeton, New Jersey.
(1953-1954)
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(1935/36)
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(1949-1950; 1951/52)
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(1941/42)
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(1950/51)   (Assistant)
KRAICHNAN, ROBERT H.
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KRAMERS, HENDRIK A., Deceased.
(1946/47, Second Term; 1951/52, First Term)
KREEZER, GEORGE L., Department of Psychology, Washington University, St. Louis 5, Missouri.
(1946-1947)
KRISTELLER, PAUL OSKAR, Columbia University, New York 27, New York.
(1954)
KROLL, NORMAN M., Department of Physics, Columbia University, New York 27, New York.
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(1947-1949)   (Assistant)
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Kuratowski, Kazimierz
(1948/49)
Kusaka, Shuichi, Deceased.
(1942/43, Second Term)

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(1949-1951)
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(1935/36, First Term; 1948/49, First Term)
Lauterbach, Albert T., Sarah Lawrence College, Bronxville 8, New York.
(1940/41)
Lawrence, Marion, 88 Morningside Drive, New York 27, New York.
(1941/42)
Lazerowitz, Alice Ambrose, see Ambrose, Alice.
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(1949/50; Second Term; 1951/52, Second Term)
Lech, Christer H., Department of Mathematics, University of Stockholm, Stockholm, Sweden.
(1954)
Lee, Rensselaer W., 120 Mercer Street, Princeton, New Jersey.
(1938/39, Second Term; 1942-1945; 1945/46, Second Term; 1947/48)
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(1951-1953)
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(1933/34)
Leibler, Richard A.
(1946-1948)
Leigh, Robert D., Butler Library, Columbia University, New York 27, New York.
(1941)

LEIPNIK, ROY B., Department of Mathematics, University of Washington, Seattle 5, Washington.
(1948-1950)
LEITE LOPES, JOSÉ, Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil.
(1949)
LEMAÎTRE, THE REV. GEORGES, Faculté Catholique de Louvain, Louvain, Belgium.
(1934/35, Second Term)
LEPORE, JOSEPH V., Radiation Laboratory, University of California, Berkeley 4, California.
(1948-1949)
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(1950-1952)
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(1950; 1951-1954)
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(1938/39; 1941-1945)
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(1951-1953)
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(1950-1952)
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(1952/53)
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LIAO, SAN DAO
(1952-1954)

LINDBERG, JOHN
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  (1951/52)
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  (1939-1941)
LONG, CLARENCE, Johns Hopkins University, Baltimore 18, Maryland.
  (1941-1943; 1945/46, First Term)
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LOW, FRANCIS E., Physics Department, University of Illinois, Urbana, Illinois.
  (1950-1952)
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  (1936-1954)
LOWINSKY, EDWARD E., Queens College, Flushing 67, New York.
  (1952-1954)
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  (1949/50; 1952/53, Second Term)
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  (1937/38, First Term)

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MacDuffee, Cyrus C., 302 North Hall, University of Wisconsin, Madison 6, Wisconsin.
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(1941/42, Second Term)

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(1946/47)

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(1953/54, Second Term)

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(1942/43)   (Assistant)

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(1953/54)

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(1934/35)

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(1940-1942)

Mahler, Kurt, Mathematics Department, University of Manchester, Manchester 13, England.
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Malliavin, Paul
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Manning, Dorothy, see Smiley, Dorothy Manning.

Mantoux, Étienne, Deceased.
(1941-1943)

MARGENAU, HENRY, Sloane Physics Laboratory, Yale University, New Haven 11, Connecticut.
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  (1934/35)

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  (1947/48)

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MARTIN, ALLAN D.
  (1954)

MARTIN, ROBERT S., Deceased.
  (1933-1936)   (Assistant)

MARTIN, WILLIAM T., Department of Mathematics, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.
  (1934-1936; 1951/52)

MARX, DANIEL, Dartmouth College, Hanover, New Hampshire.
  (1950-1951)

MASANI, PESI R., Institute of Science, Bombay 1, India.
  (1946-1948)

MASON, ALPHEUS T., Department of Politics, Princeton University, Princeton, New Jersey.
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  (1950/51)

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  (1946/47; 1954)

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  (1951/52)
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MOSTOWSKI, ANDRZEJ
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(1937-1939)

Nambu, Yoichiro
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(1934/35)

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(1937/38)

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(1945/46; 1950-1954)

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(1949/50)

Newburgh, John D., Deceased.
(1949-1951)

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(1937/38; 1946/47, First Term)

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(1946-1948)

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(1947-1954)

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(1940/41)
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(1935-1954)
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(1935/36; 1940-1946; 1950-1954)
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(1946-1948; 1952-1953)
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(1948-1954)
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(1948-1950)
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REINER, IRVING, Department of Mathematics, University of Illinois, Urbana, Illinois.
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(1948/49)
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(1940/41)
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(1947-1951)
Rosenblatt, Alfred, Deceased.
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RUFENER, ERNST
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(1950-1952)
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(1941/42)
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(1946-1948)
SCHATTEN, ROBERT, Department of Mathematics, University of Kansas, Lawrence, Kansas.
(1944-1946; 1950/51, First Term; 1952/53)
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(1941/42, First Term)
SCHENKMAN, EUGENE V., Department of Mathematics, Louisiana State University, Baton Rouge, Louisiana.
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SCHIFFER, WALTER B., Deceased.
(1943-1948)
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(1947/48)
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(1935-1937)
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(1954)
SCHWARTZ, ABRAHAM, Department of Mathematics, City College, New York 31, New York.
(1939-1941)   (Assistant)
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(1939/40)
SCIAMA, DENNIS W. S., Physics Department, Trinity College, Cambridge, England.
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(1945-1947; 1948/49, First Term; 1951/52; 1954)
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SEGRE, BENIAMINO, Istituto Matematico, Città Universitaria, Rome, Italy.
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SEIDEL, WLADIMIR, University of Notre Dame, Notre Dame, Indiana.
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(1948/49, First Term)
SELBERG, ATLE, The Institute for Advanced Study, Princeton, New Jersey.
(1947/48; 1949-1954)
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(1950/51, Second Term; 1951/52, Second Term)
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SERBIN, HYMAN
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SETON-WATSON, CHRISTOPHER, Oriel College, Oxford, England.
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SHANNON, CLAUDE E., Bell Telephone Laboratories, Murray Hill, New Jersey.
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(1940/41; 1948-1950)
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SHUDEMAN, CONRAD L. B.
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SIEGEL, CARL LUDWIG, Mathematisches Institut der Universität, Göttingen, Germany.
(1934/35, Second Term; 1940-1951)
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(1936/37, Second Term)

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 (1946-1948)
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 (1936-1938)
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 (1946/47)
SQUIRES, GORDON L.
 (1954)
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    (1948-1954)
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    (1938/39, First Term)
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STERN, ADOLPH
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    (1954)
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    (1939-1954)
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STOCKUM, WILLEM J. VAN, Missing in Action.
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   (1936-1948)
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   (1954)
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    (1933/34; 1943/44, Second Term)
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 (1952/53)
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 (1940/41)

Tschebotarioff, Valentine P., see Bill, Valentine Tschebotarioff.
Tuan, Hsio-Fu
    (1945/46)   (Assistant)
Tuckerman, Bryant, Electronic Computer Project, The Institute for Advanced
    Study, Princeton, New Jersey.
    (1952-1954)
Turán, Paul
    (1947/48, Second Term)

Uhlenbeck, George E., Department of Physics, University of Michigan, Ann Arbor,
    Michigan.
    (1948/49)
Ulam, Stanislaw M., Juniper and 20th Streets, Los Alamos, New Mexico.
    (1935/36, Second Term)
Uluçay, Cengiz, Department of Mathematics, University of Ankara, Ankara, Turkey.
    (1947-1948)
Utiyama, Ryoyu, Physics Department, Osaka University, Osaka, Japan.
    (1954)

Vagts, Alfred, Sherman, Connecticut.
    (1939-1942)
Vallarta, Manuel S., Physics Department, University of Mexico, Mexico D.F.,
    Mexico.
    (1949)
Van der Lijn, Gaston, Deceased.
    (1935/36)
Vanderpool, Eugene, American School of Classical Studies, Athens, Greece.
    (Summer 1944)
Vanderslice, John L., Applied Physics Laboratory, Johns Hopkins University, Balti-
    more 18, Maryland.
    (1933-1935)   (Assistant)
Van Hove, Léon C. P., Institute for Theoretical Physics, University of Utrecht,
    Utrecht, Netherlands.
    (1949/50; 1952-1954)
Veblen, Oswald, The Institute for Advanced Study, Princeton, New Jersey.
    (1932-1954)
Verde, Mario, Istituto di Fisica, Università degli Studi di Torino, Turin, Italy.
    (1954)
Veronis, George, Electronic Computer Project, The Institute for Advanced Study,
    Princeton, New Jersey.
    (1954)

VILLARS, FELIX M. H., Department of Physics, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.
(1949/50)

VINER, JACOB, Department of Economics and Sociology, Princeton University, Princeton, New Jersey.
(1946-1954)

VLASTOS, GREGORY, Cornell University, Ithaca, New York.
(1954)

VON NEUMANN, JOHN, The Institute for Advanced Study, Princeton, New Jersey.
(1933-1954)

WACE, ALAN J. B., Pembroke College, Cambridge, England.
(1948/49, First Term; 1950/51, Second Term; 1952-1954)

WADE, LUTHER I., Mathematics Department, Louisiana State University, Baton Rouge 3, Louisiana.
(1942/43)

WADE-GERY, HENRY T., New College, Oxford, England.
(1937/38; 1947/48)

WAISMANN, FRIEDRICH, Oxford University, Oxford, England.
(1952/53, Second Term)

WALD, GEORGE, Biological Laboratory, Harvard University, Cambridge 38, Massachusetts.
(1953/54, Second Term)

WALL, HUBERT S., Mathematics Department, University of Texas, Austin, Texas.
(1937/38)

WALLACE, WILLIAM P., University of Toronto, Toronto 5, Canada.
(1945/46, Second Term)

WALLACH, HANS, Psychology Department, Swarthmore College, Swarthmore, Pennsylvania.
(1954)

WALLMAN, HENRY, Chalmers University of Technology, Göteborg, Sweden.
(1938-1940)   (Assistant)

WALSH, JOSEPH L., Department of Mathematics, Harvard University, Cambridge 38, Massachusetts.
(1934/35)

WALZER, RICHARD R., 39 Portland Road, Oxford, England.
(1953/54)

WANG, HSIEN-CHUNG, Department of Mathematics, Alabama Polytechnic Institute, Auburn, Alabama.
(1951/52; 1954)

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WANTRUP, S. V., see CIRIACY-WANTRUP, SIEGFRIED VON.

WARD, AUGUSTUS J., Emanuel College, Cambridge, England.
    (1953/54)

WARD, JOHN C.
    (1951/52; 1954)

WARD, MORGAN, Mathematics Department, California Institute of Technology, Pasadena 4, California.
    (1934/35)

WARE, WILLIS H., Rand Corporation, 1700 Main Street, Santa Monica, California.
    (1946-1951)

WARREN, ROBERT B., Deceased.
    (1939-1950)

WATSON, KENNETH M., Radiation Laboratory, University of California, Berkeley 4, California.
    (1948/49)

WEBSTER, SIR CHARLES K., 4 St. John's Lodge, Harley Road, London N. W. 3, England.
    (1952/53, First Term)

WEBSTER, J. CARSON, Department of Art, Northwestern University, Evanston, Illinois.
    (1938/39, First Term)

WEDGWOOD, C. VERONICA, 22 St. Ann's Terrace, London N. W. 8, England.
    (1952-1954)

WEIL, ANDRÉ, Eckhart Hall, University of Chicago, Chicago 37, Illinois.
    (1936/37, Second Term)

WEILLER, JEAN, Faculté de Droit, Université de Poitiers, Poitiers, France.
    (1941-1943)

WEINBERG, ALBERT K., 534 Anastasia Avenue, Coral Gables, Florida.
    (1939-1941)

WEINBERG, SAUL, 211 Jesse Hall, University of Missouri, Columbia, Missouri.
    (1941/42)

WEISINGER, HERBERT, Department of English, Morrill Hall, Michigan State College, East Lansing, Michigan.
    (1948/49)

WEISS, EDWIN
    (1954)

WEISS, PAUL, 635 Elm Street, Syracuse 10, New York.
    (1950/51)

WEITZMANN, KURT, 30 Nassau Street, Princeton, New Jersey.
    (1935-1954)

WELKER, MARIAN H., Highland, Ulster County, New York.
(1940/41; 1942/43)

WEYL, HERMANN, The Institute for Advanced Study, Princeton, New Jersey, and Bergstrasse 27, Zurich, Switzerland.
(1933-1954)

WHAPLES, GEORGE W., Indiana University, Bloomington, Indiana.
(1941/42)   (Assistant)

WHEELER, JOHN A., Department of Physics, Princeton University, Princeton, New Jersey.
(1936/37, Second Term)

WHITE, MARY E., Trinity College, Toronto, Canada.
(1948/49)

WHITE, MORTON G., Emerson Hall, Harvard University, Cambridge 38, Massachusetts.
(1953/54)

WHITEHEAD, JOHN H. C., 22 Charlbury Road, Oxford, England.
(1946/47, First Term)

WHITEMAN, ALBERT L., University of Southern California, Los Angeles 7, California.
(1952-1954)

WHITNEY, HASSLER, The Institute for Advanced Study, Princeton, New Jersey.
(1952-1954)

WICK, GIAN CARLO, Physics Department, Carnegie Institute of Technology, Pittsburgh 13, Pennsylvania.
(1953)

WIGHTMAN, ARTHUR S., Department of Physics, Princeton University, Princeton, New Jersey.
(1949/50)

WILBER, DONALD N., Quaker Road, Princeton, New Jersey.
(1936-1939)

WILCOX, LEE R., Illinois Institute of Technology, Chicago 16, Illinois.
(1935-1938)

WILDER, RAYMOND L., Department of Mathematics, University of Michigan, Ann Arbor, Michigan.
(1933/34)

WILDT, RUPERT, Yale University, New Haven, Connecticut.
(1936/37)

WILKINS, J. ERNEST, 80 Grand Street, White Plains, New York.
(1942/43, First Term)

WILLCOX, WILLIAM B., 1006 Lincoln Avenue, Ann Arbor, Michigan.
(1946/47, First Term)
WILLIAMS, CHRISTINE S., see AYOUB, CHRISTINE WILLIAMS.
WILLOUGHBY, WILLIAM R., St. Lawrence University, Canton, New York.
(1954)
WILMERDING, LUCIUS, 2 Rosedale Road, Princeton, New Jersey.
(1945-1948)
WINTNER, AUREL F., Department of Mathematics, Johns Hopkins University, Baltimore 18, Maryland.
(1937/38)
WITMER, ENOS E.
(1940/41)
WOLFSOHN, NORMAN Z., 260 Ocean Parkway, Brooklyn 18, New York.
(1952-1954)   (Assistant)
WOLFSON, KENNETH G., Department of Mathematics, Rutgers University, New Brunswick, New Jersey.
(1954)
WONG, SUNG YUEN, Electronic Computer Project, The Institute for Advanced Study, Princeton, New Jersey.
(1953-1954)
WONG, YUE KEI, Pyne Administration Building, Princeton University, Princeton, New Jersey.
(1936/37, First Term; 1948-1950)
WOODBURY, MAX A., Department of Statistics, University of Pennsylvania, Philadelphia 4, Pennsylvania.
(1949/50)
WOODHEAD, GEOFFREY, Corpus Christi College, Cambridge, England.
(1947/48)
WOODWARD, SIR (ERNEST) LLEWELLYN, The Institute for Advanced Study, Princeton, New Jersey.
(1946/47, First Term; 1948/49, First Term; 1950/51, First Term; 1951-1954)
WOUTHUYSEN, SIEGFRIED A., c/o Zeeman Laboratorium, 4 Plantage Muidergracht, Amsterdam, Netherlands.
(1947/48)
WRIGHT, GORDON, University of Oregon, Eugene, Oregon.
(1950/51, First Term)
WYCHERLEY, RICHARD E., University College, Bangor, North Wales, United Kingdom.
(1951/52)

WYLIE, SHAUN, Trinity College, Cambridge, England.
(1935/36)

YAGI, FUMIO, University of Washington, Seattle 5, Washington.
(1942/43, Second Term)
YAMABE, HIDEHIKO, University of Minnesota, Minneapolis 14, Minnesota.
(1952-1954) (Assistant)
YANG, CHEN NING, The Institute for Advanced Study, Princeton, New Jersey.
(1949-1954)
YANG, CHUNG-TAO
(1954)
YANO, KENTARO, Department of Mathematics, University of Tokyo, Tokyo, Japan.
(1950-1952) (Assistant)
YEATON, MARIE JOHNSON, 189 Forest Street, Oberlin, Ohio.
(1937/38)
YENNIE, DONALD R., Stanford University, Stanford, California.
(1951/52)
YOSIDA, KÔSAKU, Department of Mathematics, Nagoya University, Nagoya, Japan.
(1954)
YOUNG, LAURENCE C., North Hall, University of Wisconsin, Madison 6, Wisconsin.
(1947/48, Second Term)
YUKAWA, HIDEKI, Yukawa Hall, Kyoto University, Kyoto, Japan.
(1948/49)

ZARISKI, OSCAR, Department of Mathematics, Harvard University, Cambridge 38, Massachusetts.
(1934/35)
ZELINSKY, DANIEL, Northwestern University, Evanston, Illinois.
(1947-1949)
ZENER, CLARENCE M., Westinghouse Electric Corporation, Research Laboratories, East Pittsburgh, Pennsylvania.
(1934/35)
ZIPPIN, LEO, Mathematics Department, Queens College, Flushing 67, New York.
(1933-1936; 1945/46, First Term)

MEMBERS WITH APPOINTMENTS
OF LONG TERM

ALEXANDER, JAMES W. (1933-) (Professor 1933-1947)
AYDELOTTE, FRANK (1930-) (Director 1939-1947)
BEURLING, ARNE (1954-) (Professor)
BIGELOW, JULIAN H. (1950-)
BOHR, NIELS (1949-)
CHARNEY, JULE G. (1952-)
CHERNISS, HAROLD F. (1948-) (Professor)
CLAY, SIR HENRY (1950-1954)
DYSON, FREEMAN J. (1953-) (Professor)
EARLE, EDWARD M. (1934-1954) (Professor)
EINSTEIN, ALBERT (1933-) (Professor 1933-1946; Professor Emeritus
    1946-)
FLEXNER, ABRAHAM (1930-1945) (Director 1930-1939)
FRANKL, PAUL (1949-)
GÖDEL, KURT (1940-) (Professor 1953-)
GOLDMAN, HETTY (1936-) (Professor 1936-1947; Professor Emeritus 1947-)
GOLDSTINE, HERMAN H. (1950-)
HERZFELD, ERNST E. (1936-1944) (Professor)
JOST, RES (1951-)
KANTOROWICZ, ERNST H. (1951-) (Professor)
KENNAN, GEORGE (1951-)
LERAY, JEAN (1951-)
LOWE, ELIAS A. (1936-) (Professor 1936-1945; Professor Emeritus 1945-)
MAYER, WALTHER (1933-1948)
MERITT, BENJAMIN D. (1935-) (Professor)
MITRANY, DAVID (1933-) (Professor 1933-1946)
MONTGOMERY, DEANE (1948-) (Professor 1950-)
MORSE, MARSTON (1935-) (Professor)
NEUGEBAUER, OTTO (1950-)
OPPENHEIMER, ROBERT (1947-) (Director 1947—; Professor 1947-)
PAIS, ABRAHAM (1946-) (Professor 1950-)
PANOFSKY, ERWIN (1935-) (Professor)
PAULI, WOLFGANG (1950-)
PLACZEK, GEORGE (1948-)
RIEFLER, WINFIELD W. (1935-1949) (Professor)
SELBERG, ATLE (1949-) (Professor 1950-)
SIEGEL, CARL L. (1940-1951) (Professor 1945-1951)
STEWART, WALTER W. (1933-) (Professor 1939-1950; Professor Emeritus
    1950-)

THOMPSON, HOMER A. (1947-) (Professor)
VEBLEN, OSWALD (1932-) (Professor 1932-1945; Professor Emeritus 1945-)
VINER, JACOB (1946-)
VON NEUMANN, JOHN (1933-) (Professor)
WARREN, ROBERT B. (1939-1950) (Professor)
WEDGWOOD, C. V. (1953-)
WEITZMANN, KURT (1945-)
WEYL, HERMANN (1933-) (Professor 1933-1951; Professor Emeritus 1951-)
WHITNEY, HASSLER (1952-) (Professor)
WOODWARD, SIR (ERNEST) LLEWELLYN (1951-) (Professor)
YANG, CHEN NING (1949-) (Professor 1955-)

TRUSTEES