

CODEN: BAMOAD
VOLUME 80
NUMBER 3

PAGES 369–586
MAY 1974
ISSUE 750

BULLETIN
of the
AMERICAN MATHEMATICAL SOCIETY

Edited by
PAUL R. HALMOS JOHN L. KELLEY
HANS F. WEINBERGER

Published by the
AMERICAN MATHEMATICAL SOCIETY
PROVIDENCE, RHODE ISLAND

AMERICAN MATHEMATICAL SOCIETY

Business Office: P.O. Box 6248, Providence, Rhode Island 02940

Gordon L. Walker, Executive Director
Lincoln K. Durst, Deputy Director

OFFICERS

- President:* Saunders Mac Lane, Department of Mathematics, Eckhart Hall, University of Chicago, Chicago, Illinois 60637
- President-elect:* Lipman Bers, Department of Mathematics, Columbia University, New York, New York 10027
- Vice-Presidents:* Raoul H. Bott, Department of Mathematics, Harvard University, Cambridge, Massachusetts 02138; Irving Kaplansky, Department of Mathematics, University of Chicago, Chicago, Illinois 60637; Edwin E. Moise, Department of Mathematics, City University of New York, Queen's College, Flushing, New York 11367
- Secretary:* Everett Pitcher, Department of Mathematics, Lehigh University, Bethlehem, Pennsylvania 18015
- Associate Secretaries:* Paul T. Bateman, Department of Mathematics, University of Illinois, Urbana, Illinois 61801; Walter H. Gottschalk, Department of Mathematics, Wesleyan University, Middletown, Connecticut 06457; Orville G. Harrold, Jr., Department of Mathematics, Florida State University, Tallahassee, Florida 32306; Kenneth A. Ross, Department of Mathematics, University of Oregon, Eugene, Oregon 97403
- Treasurer:* Franklin P. Peterson, Department of Mathematics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139
- Associate Treasurer:* Murray H. Protter, Department of Mathematics, University of California, Berkeley, California 94720
- Board of Trustees:* Paul T. Bateman, Department of Mathematics, University of Illinois, Urbana, Illinois 61801; Saunders Mac Lane (ex officio); Franklin P. Peterson (ex officio); Richard S. Palais, Department of Mathematics, Brandeis University, Waltham, Massachusetts 02154; Calvin C. Moore, Department of Mathematics, University of California, Berkeley, California 94720; Murray H. Protter (ex officio); Abraham H. Taub, Department of Mathematics, University of California, Berkeley, California 94720
- Council Members:* See inside back cover.

CHAIRMEN OF EDITORIAL AND COMMUNICATION COMMITTEES

- Bulletin Editorial Committee:* Hans F. Weinberger, Department of Mathematics, University of Minnesota, Minneapolis, Minnesota 55455
- Proceedings Editorial Committee:* Fred Brauer, Department of Mathematics, University of Wisconsin, Madison, Wisconsin 53706
- Transactions and Memoirs Editorial Committee:* Harry Kesten, Department of Mathematics, Cornell University, Ithaca, New York 14850
- Mathematical Reviews Editorial Committee:* Frederick W. Gehring, Department of Mathematics, University of Michigan, Ann Arbor, Michigan 48104
- Colloquium Editorial Committee:* S. S. Chern, Department of Mathematics, University of California, Berkeley, California 94720
- Mathematical Surveys Editorial Committee:* Edgar H. Brown, Jr., Department of Mathematics, Brandeis University, Waltham, Massachusetts 02154
- Mathematics of Computation Editorial Committee:* Eugene Isaacson, Courant Institute of Mathematical Sciences, New York University, 251 Mercer Street, New York, New York 10012
- Committee to Monitor Problems in Communication:* Allen L. Shields, Department of Mathematics, University of Michigan, Ann Arbor, Michigan 48104
- Representatives of the Society on the Board of Editors of the American Journal of Mathematics:* Hyman Bass, Department of Mathematics, Columbia University, New York, New York 10027; I. M. Singer, Department of Mathematics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139
- Executive Editor of Mathematical Reviews:* Jacob Burlak, 611 Church Street, Ann Arbor, Michigan 48104
- Editor of Translations Projects:* Ben Silver, American Mathematical Society, P.O. Box 6248, Providence, Rhode Island 02940
- For members whose annual professional income is below \$15,000, the dues are \$24; for those whose professional income is \$15,000 or more, the dues are \$32. Dues are payable to the American Mathematical Society, P.O. Box 6248, Providence, Rhode Island 02940.

THE BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY is published bimonthly in January, March, May, July, September and November. Price per annual volume is \$14. Orders for subscriptions and back numbers, and inquiries in regard to nondelivery of current issues should be addressed to the American Mathematical Society, P.O. Box 6248, Providence, Rhode Island 02940.

Second-class postage paid at Providence, Rhode Island and additional mailing offices.