

CODEN: BAMOAD
VOLUME 82
NUMBER 3

PAGES 357–513
MAY 1976
ISSUE 762

BULLETIN
of the
AMERICAN MATHEMATICAL SOCIETY

Edited by
PAUL R. HALMOS OLGA TAUSSKY TODD
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: Lipman Bers, Dept. of Mathematics, Columbia University, New York, NY 10027

President-elect: R. H. Bing, Dept. of Mathematics, University of Texas at Austin, Austin TX 78712

Vice-Presidents: Mary W. Gray, Dept. of Mathematics, American University, Washington, D.C. 20016; John W. Milnor, School of Mathematics, Institute for Advanced Study, Princeton, NJ 08540; Louis Nirenberg, Courant Institute of Mathematical Sciences, 251 Mercer St., New York University, New York, NY 10012.

Secretary: Everett Pitcher, Dept. of Mathematics, Lehigh University, Bethlehem, PA 18015

Associate Secretaries: Paul T. Bateman, Dept. of Mathematics, University of Illinois, Urbana, IL 61801; Walter H. Gottschalk, Dept. of Mathematics, Wesleyan University, Middletown, CT 06457; Orville G. Harrold, Jr., Dept. of Mathematics, Florida State University, Tallahassee, FL 32306; Kenneth A. Ross, Dept. of Mathematics, University of Oregon, Eugene, OR 97403

Treasurer: Franklin P. Peterson, Dept. of Mathematics, Massachusetts Institute of Technology, Cambridge, MA 02139

Associate Treasurer: Murray H. Protter, Dept. of Mathematics, University of California, Berkeley, CA 94720

Board of Trustees: Lipman Bers (ex officio); Cathleen S. Morawetz, Courant Institute of Mathematical Sciences, New York University, 251 Mercer St., New York, NY 10012; Calvin C. Moore, Dept. of Mathematics, University of California, Berkeley, CA 94720; Richard S. Palais, Dept. of Mathematics, Brandeis University, Waltham, MA 02154; Franklin P. Peterson (ex officio); Murray H. Protter (ex officio); Alex Rosenberg, Dept. of Mathematics, Cornell University, Ithaca, NY 14850; Abraham H. Taub, Dept. of Mathematics, University of California, Berkeley, CA 94720

Council Members: See inside back cover.

DUES

For ordinary 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 1571, Annex Station, Providence, RI 02901.

PUBLICATION CHARGES

The research journals of the American Mathematical Society carry a page charge of \$40 per page to help defray the cost of publication. This amount is charged to the institution or to a contract supporting the research reported in the published paper. The publication charge policy of the United States Federal Council for Science and Technology (FCST) is reported on page 112 of the February, 1975 issue of the NOTICES of the American Mathematical Society. In no case is the author personally responsible for paying the page charge, nor is acceptance of the author's paper for publication dependent upon payment of the page charge.

INFORMATION FOR SUBSCRIBERS

Subscription prices for Volume 82 (1976) are list \$22.00, member \$11.00. The subscription price for members is included in the annual dues. Back number prices *per volume* for Volumes 1-55 (1894-1949) are list \$28.00, member \$21.00; Volumes 56-80 (1950-1974), list \$21.00, member \$15.75; Volume 81 (1975); list \$27.00, member \$20.25.

Back volumes of the BULLETIN are also available on 16 mm microfilm, either negative or positive, and may be mounted either on spools or in Eastman or 3M cartridges. Volumes 1-81 (1894-1975) are mounted on 17 spools and cost \$695.00 for spools or \$746.00 for cartridges. Only current subscribers are eligible to purchase back volumes on microfilm.

THE BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY is published bimonthly in January, March, May, July, September and November. Subscriptions and orders should be addressed to American Mathematical Society, P.O. Box 1571, Annex Station, Providence, RI 02901. *All orders must be accompanied by payment.* Other correspondence should be addressed to P.O. Box 6248, Providence, RI 02940.

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

Copyright © American Mathematical Society 1976
Printed in the United States of America