

VOLUME 24 No. 2

APRIL 1991

BULLETIN

(N E W S E R I E S)
OF THE

A M E R I C A N M A T H E M A T I C A L S O C I E T Y

EDITORS

Richard S. Palais, *Research Expository Papers*

Murray Protter, *Book Reviews*

Frank Quinn, *Research Announcements*

PROVIDENCE, RHODE ISLAND USA

ISSN 0273-0979

BULLETIN (New Series) of the American Mathematical Society

BULLETIN (New Series) contains articles of the types listed below. Information on Manuscript, Proof, and Copying can be found at the back of this journal.

RESEARCH-EXPOSITORY PAPERS

These are, by definition, papers which present a clear and insightful exposition of significant aspects of contemporary mathematical research. Gibbs lectures and retiring presidential addresses will be included in this section. Manuscripts should be submitted to Professor Richard S. Palais, Department of Mathematics, Brandeis University, Waltham, MA 02154-9110.

RESEARCH ANNOUNCEMENTS

The purpose of this department is to publish quickly and disseminate widely significant new mathematics. A Research Announcement should be designed to communicate its contents to a broad mathematical audience and should meet high standards for clarity as well as mathematical content. It should begin with an abstract containing a brief technical description of the new material. Then there should be an introductory section addressed to nonexperts describing the motivation, background, and significance of the results announced. Following the statement of results, there should follow a sketch of proofs which may be addressed to experts. Having colleagues, including nonexperts, proofread a manuscript can be an effective way to improve readability. An announcement should normally not exceed 8 journal pages, and preferably not exceed 6 pages. Authors should send five (5) copies of each manuscript to Professor Frank Quinn, Department of Mathematics, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0123. Under ideal conditions, papers appear about 7 months after submission.

Subscription Information: BULLETIN (New Series) of the American Mathematical Society is published quarterly. Subscription prices for Volumes 24 and 25 (1990) are \$187 list, \$150 institutional member, \$112 individual member. The subscription price for members is included in the annual dues. A late charge of 10% of the subscription price will be imposed upon orders received from nonmembers after January 1 of the subscription year. Subscribers outside the United States and India must pay a postage surcharge of \$8.00; subscribers in India must pay a postage surcharge of \$13.00. Expedited delivery to destinations in North America \$12; elsewhere \$21. Combination paper and microfiche subscription prices are \$249 list, \$199 institutional member. Microfiche of each issue will be mailed the fastest way before the camera copy is sent to the printer. Microfilm subscriptions may be purchased from University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

Back Number Information: Back number prices (per volume) for BULLETIN (New Series) Volume 1 are \$68 list, \$54 institutional member; for Volumes 2–9 \$34 list, \$27 institutional member; for Volumes 10–11 \$42 list, \$34 institutional member; for Volumes 12–13 \$102 list, \$82 institutional member; for Volumes 14–15 \$125 list, \$100 institutional member; for Volumes 16–19 \$134 list, \$107 institutional member; for Volumes 20–21 \$137 list, \$110 institutional member; for Volumes 22–23 \$131 list, \$105 institutional member. Back number prices (per volume) of Volumes 1–84 for the BULLETIN of the American Mathematical Society which ceased publication in 1978 are \$68 list, \$54 institutional member. Back volumes may be purchased on microfilm or microfiche from University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

Subscriptions and orders for publications should be addressed to the American Mathematical Society, P.O. Box 1571, Annex Station, Providence, RI 02901-9930. All orders must be accompanied by payment. Other correspondence should be addressed to the Society at P.O. Box 6248, Providence, RI 02940.

BULLETIN (New Series) of the American Mathematical Society (USPS 075640) is published quarterly by the American Mathematical Society at 201 Charles Street, Providence, RI 02904-2213. Second-class postage is paid at Providence, Rhode Island and additional mailing offices. Postmaster: Send address changes to BULLETIN, American Mathematical Society, P.O. Box 6248, Providence, RI 02940-6248.

Copyright © 1991 American Mathematical Society. All rights reserved.
Information on copying and reprinting can be found at the back of this journal.

Printed in the United States of America

The paper used in this book is acid-free and falls within the guidelines established to ensure permanence and durability. ∞

This publication was typeset using $\mathcal{A}\mathcal{M}\mathcal{S}\text{-}\mathcal{T}\mathcal{E}\mathcal{X}$,
the American Mathematical Society's $\mathcal{T}\mathcal{E}\mathcal{X}$ macro system.