Pacific Journal of Mathematics

PACIFIC JOURNAL OF MATHEMATICS

Founded in 1951 by

E. F. Beckenbach (1906-1982) F. Wolf (1904-1989)

EDITORS

Sun-Yung A. Chang (Managing Editor) University of California Los Angeles, CA 90095-1555 pacific@math.ucla.edu

F. Michael Christ University of California Los Angeles, CA 90095-1555 christ@math.ucla.edu

Nicholas Ercolani University of Arizona Tucson, AZ 85721 ercolani@math.arizona.edu Robert Finn Stanford University Stanford, CA 94305 finn@gauss.stanford.edu

Steven Kerckhoff Stanford University Stanford, CA 94305 spk@gauss.stanford.edu

Martin Scharlemann University of California Santa Barbara, CA 93106 mgscharl@math.ucsb.edu Gang Tian

Massachusettes Institute of Technology

Cambridge, MA 02139 tian@math.mit.edu

V. S. Varadarajan University of California Los Angeles, CA 90095-1555 vsv@math.ucla.edu

Dan Voiculescu University of California Berkeley, CA 94720

dvv@math.berkeley.edu

SUPPORTING INSTITUTIONS

ACADEMIA SINICA, TAIPEI
CALIF. INST. OF TECHNOLOGY
CHINESE UNIV. OF HONG KONG
HONG KONG UNIV. OF SCI. & TECH.
KEIO UNIVERSITY
MACQUARIE UNIVERSITY
MATH. SCI. RESEARCH INSTITUTE
NEW MEXICO STATE UNIV.
OREGON STATE UNIV.
PEKING UNIVERSITY
RITSUMEIKAN UNIVERSITY
STANFORD UNIVERSITY

TOKYO INSTITUTE OF TECHNOLOGY UNIVERSIDAD DE LOS ANDES UNIV. OF ARIZONA UNIV. OF BRITISH COLUMBIA UNIV. OF CALIF., BERKELEY UNIV. OF CALIF., IRVINE UNIV. OF CALIF., IRVINE UNIV. OF CALIF., RIVERSIDE UNIV. OF CALIF., RIVERSIDE UNIV. OF CALIF., SAN DIEGO UNIV. OF CALIF., SANTA BARBARA

UNIV. OF CALIF., SANTA CRUZ UNIV. OF HAWAII

UNIV. OF MELBOURNE UNIV. OF MONTANA

UNIV. NACIONAL AUTONOMA DE MEXICO

UNIV. OF NEVADA, RENO UNIV. OF OREGON

UNIV. OF SOUTHERN CALIFORNIA

UNIV. OF UTAH

WASHINGTON STATE UNIVERSITY

The supporting Institutions listed above contribute to the cost of publication of this Journal, but they are not owners or publishers and have no responsibility for its contents or policies.

Manuscripts must be prepared in accordance with the instructions provided on the inside back cover.

The table of contents and the abstracts of the papers in the current issue, as well as other information about the Pacific Journal of Mathematics, may be found on the Internet at http://www.math.uci.edu/pjm.html.

The Pacific Journal of Mathematics (ISSN 0030-8730) is published monthly except for July and August. Regular subscription rate: \$245.00 a year (10 issues). Special rate: \$123.00 a year to individual members of supporting institutions.

Subscriptions, back issues published within the last three years and changes of subscribers address should be sent to Pacific Journal of Mathematics, P.O. Box 4163, Berkeley, CA 94704-0163, U.S.A. Prior back issues are obtainable from Kraus Periodicals Co., Route 100, Millwood, NY 10546.

The Pacific Journal of Mathematics at the University of California, c/o Department of Mathematics, 981 Evans Hall, Berkeley, CA 94720 (ISSN 0030-8730) is published monthly except for July and August. Second-class postage paid at Berkeley, CA 94704, and additional mailing offices. POSTMASTER: send address changes to Pacific Journal of Mathematics, P.O. Box 6143, Berkeley, CA 94704-0163.

PUBLISHED BY PACIFIC JOURNAL OF MATHEMATICS at University of California,
Berkeley, CA 94720, A NON-PROFIT CORPORATION
This publication was typeset using AMS-LATEX,
the American Mathematical Society's TEX macro system.
Copyright © 1995 by Pacific Journal of Mathematics