## Pacific Journal of Mathematics

Vol. 169, No. 1 May 1995

## PACIFIC JOURNAL OF MATHEMATICS

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

## **EDITORS**

Sun-Yung Alice 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

Thomas Enright University of California San Diego, La Jolla, CA 92093 tenright@ucsd.edu

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

Vaughan F. R. Jones University of California Berkeley, CA 94720 vfr@math.berkeley.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 Courant Institute New York University New York, NY 10012-1100 tiang@taotao.cims.nyu.edu

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

## SUPPORTING INSTITUTIONS

CALIFORNIA INSTITUTE OF TECHNOLOGY NEW MEXICO STATE UNIVERSITY OREGON STATE UNIVERSITY STANFORD UNIVERSITY UNIVERSITY OF ARIZONA UNIVERSITY OF BRITISH COLUMBIA UNIVERSITY OF CALIFORNIA UNIVERSITY OF HAWAII UNIVERSITY OF MONTANA
UNIVERSITY OF NEVADA, RENO
UNIVERSITY OF OREGON
UNIVERSITY OF SOUTHERN CALIFORNIA
UNIVERSITY OF UTAH
UNIVERSITY OF WASHINGTON
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 Pacific Journal of Mathematics (ISSN 0030-8730) is published monthly except for July and August. Regular subscription rate: \$215.00 a year (10 issues). Special rate: \$108.00 a year to individual members of supporting institutions.

Subscriptions, orders for 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