

*Pacific  
Journal of  
Mathematics*

Vol. 162, No. 2

February 1994

# PACIFIC JOURNAL OF MATHEMATICS

Founded by

E. F. BECKENBACH (1906–1982)      F. WOLF (1904–1989)

## EDITORS

SUN-YUNG A. CHANG  
(Managing Editor)  
University of California  
Los Angeles, CA 90024-1555  
chang@math.ucla.edu

F. MICHAEL CHRIST  
University of California  
Los Angeles, CA 90024-1555  
christ@math.ucla.edu

HERBERT CLEMENS  
University of Utah  
Salt Lake City, UT 84112  
clemens@math.utah.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

R. 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

HAROLD STARK  
University of California, San Diego  
La Jolla, CA 92093

V. S. VARADARAJAN  
University of California  
Los Angeles, CA 90024-1555  
vsv@math.ucla.edu

## SUPPORTING INSTITUTIONS

UNIVERSITY OF ARIZONA  
UNIVERSITY OF BRITISH COLUMBIA  
CALIFORNIA INSTITUTE OF TECHNOLOGY  
UNIVERSITY OF CALIFORNIA  
UNIVERSITY OF MONTANA  
UNIVERSITY OF NEVADA, RENO  
NEW MEXICO STATE UNIVERSITY  
OREGON STATE UNIVERSITY

UNIVERSITY OF OREGON  
UNIVERSITY OF SOUTHERN CALIFORNIA  
STANFORD UNIVERSITY  
UNIVERSITY OF HAWAII  
UNIVERSITY OF UTAH  
WASHINGTON STATE UNIVERSITY  
UNIVERSITY OF WASHINGTON

---

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 content or policies.

---

Mathematical papers intended for publication in the *Pacific Journal of Mathematics* should be in typed form or offset-reproduced (not dittoed), double spaced with large margins. Please do not use built up fractions in the text of the manuscript. However, you may use them in the displayed equations. Underline Greek letters in red, German in green, and script in blue. The first paragraph must be capable of being used separately as a synopsis of the entire paper. In particular it should contain no bibliographic references. Please propose a heading for the odd numbered pages of less than 35 characters. Manuscripts, in triplicate, may be sent to any one of the editors. Please classify according to the 1991 *Mathematics Subject Classification* scheme which can be found in the December index volumes of *Mathematical Reviews*. Supply name and address of author to whom proofs should be sent. All other communications should be addressed to the managing editor, or Julie Honig, University of California, Los Angeles, California 90024-1555.

There are page-charges associated with articles appearing in the Pacific Journal of Mathematics. These charges are expected to be paid by the author's University, Government Agency or Company. If the author or authors do not have access to such Institutional support these charges are waived. Single authors will receive 75 free reprints; joint authors will receive a total of 100 free reprints. Additional copies may be obtained at cost in multiples of 50.

---

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: \$107.50 a year to individual members of supporting institutions.

Subscriptions, orders for numbers issued in the last three calendar years, and changes of address should be sent to Pacific Journal of Mathematics, P.O. Box 4163, Berkeley, CA 94704-0163, U.S.A. Old back numbers obtainable from Kraus Periodicals Co., Route 100, Millwood, NY 10546.

---

The Pacific Journal of Mathematics at 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 4163, 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  $\text{AMS-}\text{\TeX}$ ,  
the American Mathematical Society's  $\text{\TeX}$  macro system.  
Copyright © 1994 by Pacific Journal of Mathematics