Pacific Journal of Mathematics

W. A. Adkins, A Harnack estimate for real normal surface singularities	257
G. E. Andrews, Multiple series Rogers-Ramanujan type identities	267
D. Arnal, * products and representations of nilpotent groups	285
D. A. Cox and W. R. Parry, Representations associated with elliptic surfaces	309
J. Dombrowski, Tridiagonal matrix representations of cyclic self-adjoint operators	325
R. M. Dotzel, An Artin relation (mod 2) for finite group actions on spheres	335
L. Egghe, Convergence of adapted sequences of Pettis-integrable functions	345
R. A. Herb, Characters of induced representations and weighted orbital integrals .	367
S. M. Kahn, Cobordism obstructions to fibering manifolds over spheres	377
R. D. Little, Projective space as a branched covering of the sphere with orientable	
branch set	391
C. Schochet, Topological methods for C^* -algebras III: Axiomatic homology	399
C. Schochet, Topological methods for C^* -algebras IV: mod p homology	447
J. M. Stormes, On the KO-orientability of complex projective varieties	469
I A Ward Characterization of homogeneous spaces and their norms	481

Subject listing on back cover

PACIFIC JOURNAL OF MATHEMATICS EDITORS

DONALD BABBITT (Managing Editor)

University of California Los Angeles, CA 90024

J. DUGUNDJI

University of Southern California Los Angeles, CA 90089-1113

R. FINN

Stanford University Stanford, CA 94305

HERMANN FLASCHKA University of Arizona Tucson, AZ 85721 C. C. MOORE

University of California Berkeley, CA 94720

ARTHUR OGUS

University of California Berkeley, CA 94720

Hugo Rossi University of Utah Salt Lake City, UT 84112

H. SAMELSON Stanford University Stanford, CA 94305

ASSOCIATE EDITORS

R. ARENS

E. F. BECKENBACH

B. H. NEUMANN

F. Wolf

K. YOSHIDA

(1906-1982)

SUPPORTING INSTITUTIONS

UNIVERSITY OF ARIZONA
UNIVERSITY OF BRITISH COLUMBIA
CALIFORNIA INSTITUTE OF TECHNOLOGY
UNIVERSITY OF CALIFORNIA
MONTANA STATE UNIVERSITY

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 TOKYO
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 scheme of Math. Reviews, Index to Vol. 39. Supply name and address of author to whom proofs should be sent. All other communications should be addressed to the managing editor, or Elaine Barth, University of California, Los Angeles, California 90024.

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 50 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 is issued monthly as of January 1966. Regular subscription rate: \$190.00 a year (5 Vols., 10 issues). Special rate: \$66.00 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 969, Carmel Valley, CA 93924, U.S.A. Old back numbers obtainable from Kraus Periodicals Co., Route 100, Millwood, NY 10546.

The Pacific Journal of Mathematics at P.O. Box 969, Carmel Valley, CA 93924 (ISSN 0030-8730) publishes 5 volumes per year. Application to mail at Second-class postage rates is pending at Carmel Valley, California, and additional mailing offices. Postmaster: Send address changes to Pacific Journal of Mathematics, P.O. Box 969, Carmel Valley, CA 93924.