# Pacific Journal of Mathematics

A. Connes and E. J. Woods, Hyperfinite von Neumann algebras and Poisson bound-	
aries of time dependent random walks	225
R. Coquereaux and D. Kastler, Remarks on the differential envelopes of associative	
algebras	245
<b>U. Haagerup</b> , The injective factors of type $III_{\lambda}$ , $0 < \lambda < 1 \dots$	265
V. F. R. Jones, On knot invariants related to some statistical mechanical models	311
P. S. Muhly, KS. Saito and B. Solel, Coordinates for triangular operator alge-	
bras II	335
K. Schmidt, Mixing automorphisms of compact groups and a theorem by Kurt	
Mahler	371
I. Segal, Algebraic characterization of the vacuum for quantized fields transform-	
ing non-unitarily	387
C. E. Sutherland and M. Takesaki, Actions of discrete amenable groups on injective	
factors of type III $_{\lambda}$ , $\lambda \neq 1$	405

Subject listing on back cover

### PACIFIC JOURNAL OF MATHEMATICS EDITORS

V. S. VARADARAJAN (Managing Editor) University of California Los Angeles, CA 90024

HERBERT CLEMENS University of Utah Salt Lake City, UT 84112

THOMAS ENRIGHT University of California, San Diego La Jolla, CA 92093 R. FINN Stanford University Stanford, CA 94305

HERMANN FLASCHKA University of Arizona Tucson, AZ 85721

VAUGHAN F. R. JONES University of California Berkeley, CA 94720

STEVEN KERCKHOFF Stanford University Stanford, CA 94305 ROBION KIRBY University of California Berkeley, CA 94720

C. C. Moore

University of California Berkeley, CA 94720

HAROLD STARK

University of California, San Diego

La Jolla, CA 92093

#### ASSOCIATE EDITORS

R. ARENS

E. F. BECKENBACH (1906-1982)

B. H. NEUMANN

F. Wolf

K. Yoshida

#### SUPPORTING INSTITUTIONS

UNIVERSITY OF ARIZONA UNIVERSITY OF OREGON

UNIVERSITY OF BRITISH COLUMBIA UNIVERSITY OF SOUTHERN CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
UNIVERSITY OF CALIFORNIA
MONTANA STATE UNIVERSITY
UNIVERSITY OF TOKYO
UNIVERSITY OF NEVADA, RENO
UNIVERSITY OF UTAH

NEW MEXICO STATE UNIVERSITY WASHINGTON STATE UNIVERSITY OREGON 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: \$95.00 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.

## HENRY A. DYE MEMORIAL VOLUME NUMBER 2

DEDICATED TO THE MEMORY OF

HENRY ABEL DYE 1926-1986