

ISSN 0027-7630

NAGOYA
MATHEMATICAL JOURNAL

VOL. 109

March 1988

PUBLISHED BY
DEPARTMENT OF MATHEMATICS, FACULTY OF SCIENCE
NAGOYA UNIVERSITY

Correspondences concerning subscription, and back issues
of the journal should be addressed to

KINOKUNIYA COMPANY LTD.
17-7 Shinjuku 3-chome, Shinjuku-ku
Tokyo 160-91 JAPAN

The annual subscription price for 1988 is about \$ 197.00

Published by
KINOKUNIYA COMPANY LTD.
Tokyo, Japan

ISSN 0027-7630

NAGOYA
MATHEMATICAL JOURNAL

VOL. 109

March 1988

Edited by

KAZUHIKO AOMOTO, TAKEYUKI HIDA, NOBORU ITO, YOSHIYUKI KITAOKA,
TOMIO KUBOTA (Managing Editor), HIDEYUKI MATSUMURA,
SHIGEFUMI MORI, HISASI MORIKAWA, AKIHIKO MORIMOTO,
KATUZI ONO, YOSHIHIRO SHIKATA, TOSHIKAZU SUNADA,
AKIHIRO TSUCHIYA, KÔSAKU YOSIDA

PUBLISHED BY
DEPARTMENT OF MATHEMATICS, FACULTY OF SCIENCE
NAGOYA UNIVERSITY

Nagoya Mathematical Journal is, in principle, the official organ of the Department of Mathematics, Nagoya University, designed solely for the publication of research papers. However, some invited papers and other original papers in mathematics from all over the world are also regularly published in Nagoya Mathematical Journal. Currently, 4 volumes are published each year.

All manuscripts should be typewritten in English, French, or German with sufficient space between lines, and special letters such as bold-face, German, Greek, and script should be clearly marked. All single letters used in formulas will appear in italic, and mathematical symbols will appear in the standard style usual for mathematical literature. Therefore, it is not required to mark such letters and symbols. Instructions which conflict with the general printing rules of the journal will not be accepted. For example, each paragraph title should appear in bold-face. Good reproductions of a typewritten manuscript are acceptable.

As soon as we receive a manuscript, a receipt will be sent to the author. When a manuscript has been sent to a referee, the author will receive another notice. These receipts and notices, however, do not mean anything regarding the acceptability of the paper for publication. If the editorial committee has decided to accept a paper, the author will receive a notice containing the number of the volume in which the paper will appear.

Each author, as well as each co-author, will have 100 reprints, while only one set of proof will be prepared per paper for proof-reading by the author(s). Therefore, a joint paper must carry instructions as to whom the proof should be sent.

The actual business of the Nagoya Mathematical Journal is performed by the managing editor with the cooperation of editors residing in Nagoya.

The manuscript and general correspondence should be addressed to: Managing editor, Nagoya Mathematical Journal, Department of Mathematics, Faculty of Science, Nagoya University, Chikusa-ku, Nagoya, 464, Japan.

CONTENTS

Orlik, P. and Solomon, L.: The Hessian map in the invariant theory of reflection groups	1
Orlik, P. and Solomon, L.: Discriminants in the invariant theory of reflection groups	23
Potthoff, J.: Littlewood-Paley theory of Gaussian spaces	47
Nishioka, K.: A note on the transcendency of Painlevé's first transcendent	63
Luciano, O. O.: Categories of multiplicative functors and Weil's infinitely near points	69
Obata, N.: A note on certain permutation groups in the infinite dimensional rotation group	91
Berger, T. R. and Knörr, R.: On Brauer's height 0 conjecture	109
Sasaki, R.: Generalized Ono invariant and Rabinovitch's theorem for real quadratic fields	117
Kenku, M. A. and Momose, F.: Torsion points on elliptic curves defined over quadratic fields	125
Nowicki, A.: On the jacobian equation $J(f, g) = 0$ for polynomials in $k[x, y]$	151
Huneke, C. and Ulrich, B.: Minimal linkage and the Gorenstein locus of an ideal	159