

ISSN 0027-7630

NAGOYA
MATHEMATICAL JOURNAL

VOL. 102

June 1986

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 1986 is about \$ 105.00

Published by
KINOKUNIYA COMPANY LTD.
Tokyo, Japan

ISSN 0027-7630

NAGOYA
MATHEMATICAL JOURNAL

VOL. 102

June 1986

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

Trung, N. V.: Toward a theory of generalized Cohen-Macaulay modules	1
Tanigawa, Y.: Modular descent of Siegel modular forms of half integral weight and an analogy of the Maass relation	51
Sommese, A. J. and Van de Ven, A.: Homotopy groups of pullbacks of varieties	79
Yokoi, H.: Imaginary bicyclic biquadratic fields with the real quadratic subfield of class-number one	91
Bremner, A.: On elliptic surfaces of Mordell-Weil rank 4	101
Schulze-Pillot, R.: Ternary quadratic forms and Brandt matrices ..	117
Murai, T.: Boundedness of singular integral operators of Calderón type, VI	127
Ikeda, S.: On the Gorensteinness of Rees algebras over local rings ..	135
Bowman, S. R. and O'Carroll, L.: Tensor products and localizations of algebras	155
Cartwright, D. I. and Soardi, P. M.: Random walks on free products, quotients and amalgams	163
Itô, M.: Remarks on the paper "Transient Markov convolution semi-groups and the associated negative definite functions"	181

