ISSN 0027-7630

NAGOYA MATHEMATICAL JOURNAL

VOL. 98

June 1985

PUBLISHED BY DEPARTMENT OF MATHEMATICS, FACULTY OF SCIENCE NAGOYA UNIVERSITY

https://doi.org/10.1017/S0027763000021310 Published online by Cambridge University Press

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

or

NORTH OXFORD ACADEMIC PUBLISHING CO. 242 Banbury Road Oxford OX2 7D W England

The annual subscription price for 1985 is about \$105.00

Published by KINOKUNIYA COMPANY LTD. Tokyo, Japan

Distributed world-wide (outside Japan) by NORTH OXFORD ACADEMIC PUBLISHING CO. Oxford, England

NAGOYA MATHEMATICAL JOURNAL

VOL. 98

June 1985

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

Nakajima, H.: Quotient complete intersections of affine spaces by finite linear groups	1
Matsumoto, K.: Remark on Smith's result on a divisor problem in arithmetic progressions	37
Mori, S.: On 3-dimensional terminal singularities	43
Yoshimoto, A.: On a generalization of Hamburger's theorem	67
Furuta, Y.: Gauss's ternary form reduction and its application to a prime decomposition symbol	77
Hida, T., Lee, KS. and Lee, SS.: Conformal invariance of white noise	87
Manni, R. S. : On the dimension of the vector space $C[\theta_m]_4$	99
Koike, M.: Higher reciprocity law, modular forms of weight 1 and elliptic curves	109
Ishii, N.: Cusp forms of weight one, quartic reciprocity and elliptic curves	117
Teranishi, Y.: Relative invariants and <i>b</i> -functions of prehomogeneous vector spaces $(G \times GL(d_1, \dots, d_r), \tilde{\rho}_1, M(n, C))$	139