## NAGOYA MATHEMATICAL JOURNAL VOL. 118

June 1990

PUBLISHED BY
DEPARTMENT OF MATHEMATICS, SCHOOL 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 1989 is about \$230.00.

Published by
KINOKUNIYA COMPANY LTD.
Tokyo, Japan

## NAGOYA MATHEMATICAL JOURNAL

VOL. 118

June 1990

## Edited by

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

PUBLISHED BY
DEPARTMENT OF MATHEMATICS, SCHOOL 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, School of Science, Nagoya University, Chikusa-ku, Nagoya, 464-01, Japan.

## **CONTENTS**

Pontier, M.: Filtrage approche et calcul stochastique non causal	1
Ito, H.: Dedekind sums and quadratic residue symbols	35
Popescu, D.: Letter to the editor—General Néron desingularization and approximation	45
Kotani, M.: A decomposition theorem of 2-type immersions $\dots$	55
Weber, M.: The law of the iterated logarithm on subsequences-characterizations	65
Keum, J. H.: Every algebraic Kummer surface is the K3-cover of an Enriques surface	99
Obata, N.: A characterization of the Lévy Laplacian in terms of infinite dimensional rotation groups	111
Matsuzawa, T.: A calculus approach to hyperfunctions III	133
Verma, J. K.: Joint reductions of complete ideals	155
Manni, R. S.: Projective varieties and rings of Thetanullwerte	165
Mason, G.: On a system of elliptic modular forms attached to the large Mathieu group	177
Ishikawa, T.: Super congruence for the Apéry numbers	195
Hashimoto, M.: Determinantal ideals without minimal free resolutions	203