

ISSN 0027-7630

**NAGOYA
MATHEMATICAL JOURNAL**

VOL. 139

September 1995

**PUBLISHED BY
GRADUATE SCHOOL OF POLYMATHEMATICS
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 163-91 JAPAN

The annual subscription price for 1995 is about \$ 339.00

Published by
KINOKUNIYA COMPANY LTD.
Tokyo, Japan

ISSN 0027-7630

NAGOYA
MATHEMATICAL JOURNAL

VOL. 139

September 1995

Editors

KAZUHIKO AOMOTO, TADAHISA FUNAKI, YOSHIYUKI KITAOKA,
RYOICHI KOBAYASHI, SHIGERU MUKAI, TAKEO OHSAWA,
YOSHIHIRO SHIKATA (Managing Editor), AKIHIRO TSUCHIYA

Associate Editors

TAKEYUKI HIDA, NOBORU ITO, TOMIO KUBOTA,
HIDEYUKI MATSUMURA[†], SHIGEFUMI MORI, HISASI MORIKAWA,
AKIHIKO MORIMOTO, KATUZI ONO, TOSHIKAZU SUNADA

PUBLISHED BY
GRADUATE SCHOOL OF POLYMATHEMATICS
NAGOYA UNIVERSITY

Nagoya Mathematical Journal is, in principle, the official organ of the Graduate School of Polymathematics, 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. Special letters such as bold-face, German, Greek, and script should be clearly distinguished. Mathematical symbols should appear in the standard style usual for mathematical literature.

Classification numbers from the American Mathematical Society's classification scheme should appear at the bottom of the first page of the manuscript.

Authors are requested to submit a copy with their original manuscript.

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 manuscript and general correspondence should be addressed to: Managing editor, Nagoya Mathematical Journal, Graduate School of Polymathematics, Nagoya University, Chikusa-ku, Nagoya, 464-01, Japan.

CONTENTS

Wang, C.: Möbius geometry for hypersurfaces in S^4	1
Obata, N.: Derivations on white noise functionals	21
Murata, Y.: Classical solutions of the third Painlevé equation	37
Cho, K. and Matsumoto, K.: Intersection theory for twisted cohomologies and twisted Riemann's period relations I	67
Azad, H., Loeb, J. J. and Qureshi, M. N.: Totally real orbits in affine quotients of reductive groups	87
Kozono, H., Maeda, Y. and Naito, H.: Global solution for the Yang-Mills gradient flow on 4-manifolds	93
Terao, H. and Yuzvinsky, S.: Logarithmic forms on affine arrange- ments	129
Morimoto, Y.: Local solvability and hypoellipticity for pseudodifferential operators of Egorov type with infinite degeneracy	151
Lu, Y.-G.: Quantum Markov chains and classical random sequences	173
Nishio, M.: Riesz capacity and regular boundary points for the parabolic operator of order α	185

