

ISSN 0027-7630

NAGOYA  
MATHEMATICAL JOURNAL

VOL. 123

September 1991

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 1991 is about \$ 214.00.

Published by  
KINOKUNIYA COMPANY LTD.  
Tokyo, Japan

ISSN 0027-7630

NAGOYA  
MATHEMATICAL JOURNAL

VOL. 123

September 1991

Edited by

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

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

---

<b>Takenaka, S.:</b> Integral-geometric construction of self-similar stable processes .....	1
<b>Nisio, M.:</b> Optimal control for stochastic partial differential equations and viscosity solutions of Bellman equations .....	13
<b>Elias, J., Robbiano, L. and Valla G.:</b> Number of generators of ideals .....	39
<b>Yamato, K.:</b> A characterization of locally homogeneous Riemann manifolds of dimension 3 .....	77
<b>Moriyasu, K.:</b> The topological stability of diffeomorphisms .....	91
<b>Yang, J.-H.:</b> Harmonic analysis on the quotient spaces of Heisenberg groups .....	103
<b>Sato, Y.:</b> Distributions of stable random fields of Chentsov type .....	119
<b>Halter-Koch, F.:</b> On a class of insoluble binary quadratic diophantine equations .....	141
<b>Saito, K.:</b> Ito's formula and Levy's Laplacian II .....	153
<b>Hara, M.:</b> Ideals of bounded holomorphic functions on simple $n$ -sheeted discs .....	171

