

ISSN 0027-7630

NAGOYA
MATHEMATICAL JOURNAL

VOL. 149

March 1998

PUBLISHED BY
GRADUATE SCHOOL OF MATHEMATICS
NAGOYA UNIVERSITY

*This journal was typeset by L^AT_EX, with style files 'nmj.sty'
written by Dr. Masashi Kubo.*

T_EX is a trademark of American Mathematical Society.

Correspondence concerning subscription, and back issues of
the journal should be addressed to

KINOKUNIYA COMPANY LTD.
17-7 Shinjuku 3-chome, Shinjuku-ku
Tokyo 163-8636 JAPAN

The annual subscription price for 1998 is about \$226.00

Published by
KINOKUNIYA COMPANY LTD.
Tokyo, Japan

ISSN 0027-7630

NAGOYA
MATHEMATICAL JOURNAL

VOL. 149

March 1998

Editors

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

Associate Editors

TADAHISA FUNAKI, TAKEYUKI HIDA, NOBORU ITO,
TOMIO KUBOTA, SHIGEFUMI MORI, HISASI MORIKAWA,
AKIHIKO MORIMOTO, KATUZI ONO, TOSHIKAZU SUNADA

PUBLISHED BY
GRADUATE SCHOOL OF MATHEMATICS
NAGOYA UNIVERSITY

Nagoya Mathematical Journal is the official journal of the Graduate School of Mathematics, Nagoya University, designed solely for the publication of research papers. However, 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. Papers should be prepared using \TeX if possible, but only the printed hard copy should be submitted (2 copies). Authors submitting old-fashioned typescript are requested to clearly distinguish special symbols and letters such as bold-face, script, German and Greek letters. The editors may request the original \TeX files of papers accepted for publication. The journal's \LaTeX style file and its manual can be obtained from the following URL.

<http://www.math.nagoya-u.ac.jp/nmj/index.html>

Papers should include

- (a) a short abstract of the contents,
- (b) classification numbers at the foot of page 1 according to the 1991 Mathematics Subject Classification, to be found in the 1990 Annual Index of *Mathematical Reviews*,
- (c) the author's coordinates, including e-mail address and Fax numbers,
- (d) for papers with long titles, the author's choice of running head (not longer than 40 characters).

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.

Authors submitting a joint paper must provide instructions as to which author is responsible for proof-reading (only one set of proofs will be provided). Each author, as well as each co-author will have 100 reprints.

The manuscript and general correspondence should be addressed to: Managing editor, Nagoya Mathematical Journal, Graduate School of Mathematics, Nagoya University, Chikusa-ku, Nagoya, 464-8602, Japan.

CONTENTS

Ohsawa, T. and Sibony, N.: Bounded p.s.h. functions and pseudo-convexity in Kähler manifold	1
Win Win Htay: Optimalities for random functions: Lee-Wiener's network and non-canonical representation of stationary Gaussian processes	9
Yamamuro, K.: On transient Markov processes of Ornstein-Uhlenbeck type	19
Chen, W., Hu, G. and Lu, S.: Criterion of (L^p, L^r) boundedness for a class of multilinear oscillatory singular integrals	33
Ichinose, T. and Takanobu, S.: The norm estimate of the difference between the Kac operator and the Schrödinger semigroup: A unified approach to the nonrelativistic and relativistic cases	53
Kohnen, W.: Fourier coefficients and Hecke eigenvalues	83
Gutkin, E.: Green's functions of free products of operators, with applications to graph spectra and to random walks	93
Ueda, M.: On twisting operators and newforms of half-integral weight II — Complete theory of newform for Kohnen space ...	117
Chung, D. M., Ji, U. C. and Obata, N.: Transformations on white noise functions associated with second order differential operators of diagonal type	173
Yokoyama, K.: Mourre theory for time-periodic systems	193