

*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 2003 is about \$242.00

Published by
KINOKUNIYA COMPANY LTD.
Tokyo, Japan

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 T_EX 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 T_EX files of papers accepted for publication. The journal's L^AT_EX 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 2000 Mathematics Subject Classification, to be found in

<http://www.ams.org/>,

- (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 50 characters).

As soon as we receive a manuscript, a receipt will be sent to the author. The receipt, however, does 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 50 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

Mandai, T. and Tahara, H.: Structure of solutions to Fuchsian systems of partial differential equations	1
Muro, M.: Singular invariant hyperfunctions on the square matrix space and the alternating matrix space	19
Hansen, W.: Modification of balayage spaces by transitions with application to coupling of PDE's	77
Masuda, T.: On the rational solutions of q -Painlevé V equation	119
Aihara, Y.: Algebraic dependence of meromorphic mappings in value distribution theory	145
Ozaki, M.: An application of Iwasawa theory to constructing fields $\mathbf{Q}(\zeta_n + \zeta_n^{-1})$ which have class group with large p -rank	179
Mykytyuk, I. V.: Invariant Kähler structures on the cotangent bundles of compact symmetric spaces	191