ISSN 0027-7630

NAGOYA MATHEMATICAL JOURNAL

VOL. 148

December 1997

PUBLISHED BY GRADUATE SCHOOL OF POLYMATHEMATICS NAGOYA UNIVERSITY This journal was typeset by IAT_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 163-91 JAPAN

The annual subscription price for 1997 is about \$293.00

Published by KINOKUNIYA COMPANY LTD. Tokyo, Japan

NAGOYA MATHEMATICAL JOURNAL

VOL. 148

December 1997

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 POLYMATHEMATICS NAGOYA UNIVERSITY Nagoya Mathematical Journal is the official journal of the Graduate School of Polymathematics, 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 IATEX 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 Polymathematics, Nagoya University, Chikusa-ku, Nagoya, 464-01, Japan.

CONTENTS

Ito, H.: On a product related to the cubic Gauss sum, II	1
Cho, S., Ahn, H. and Kim, S.: Stability of Hölder estimates for $\overline{\partial}$ on pseudoconvex domains of finite type in \mathbb{C}^2	23
Morikawa, H.: On differential polynomials, I	39
Morikawa, H.: On differential polynomials, II	73
Tanabe, K.: On the centralizer algebra of the unitary reflection group $G(m, p, n)$	113
Adachi, K. and Cho, H. R.: L^p $(1 \le p \le \infty)$ estimates for $\overline{\partial}$ on a certain pseudoconvex domain in \mathbb{C}^n	127
Chung, SY. and Kim, D.: A quasianalytic singular spectrum with respect to the Denjoy-Carleman class	137
Umemura, H. and Watanabe, H.: Solutions of the second and fourth Painlevé equations, I	151