

THE SCIENCE REPORTS OF THE TÔHOKU UNIVERSITY, SIXTH SERIES

(FOUNDED BY T. HAYASHI)

EDITED BY

RYOSHI HOTTA JUNJI KATO YASUO MORITA TADAO ODA SATORU IGARI TAKESHI KOTAKE SEIKI NISHIKAWA NORIO SHIMAKURA

WITH THE CO-OPERATION OF THE

MATHEMATICAL INSTITUTE OF TÔHOKU UNIVERSITY

SECOND SERIES VOL. 45, NO. 1

March 1993

© THE TÔHOKU UNIVERSITY SENDAI, 980 JAPAN

TÔHOKU MATHEMATICAL JOURNAL

This periodical is published quarterly by the Mathematical Institute of Tôhoku University. One volume usually consists of four issues.

Editorial correspondence

Articles on pure and applied mathematics in English, French or German and editorial correspondence should be addressed to the Editor, the Tôhoku Mathematical Journal, Mathematical Institute, Faculty of Science, Tôhoku University, Sendai, 980 Japan.

Preparation of manuscripts

Manuscripts submitted for publication should be typewritten (double spacing) with generous margins. Carbon copy, thin paper, and typing with cramped formulas are not acceptable. Figures and diagrams must be drawn in proper size in Indian ink or *Sumi* on separate sheets of paper. Footnotes should be reduced to a minimum. References should be precise, unambiguous and intelligible. Author's department, university and its location should be written at the end of the manuscript.

Proofs

Authors ordinarily receive only galley proofs. Stylistic changes in proofs must be avoided as possible. Authors will be charged for excessive corrections.

Reprints

Each author receives 50 reprints gratis, postage prepaid. Joint authors receive 50 altogether. Additional reprints may be purchased if desired.

Subscriptions

Subscriptions and orders for back numbers, beginning with Volume 24 (1972), should be sent to Maruzen Company, Ltd., P.O. Box 5050, Tokyo International, 100–31 Japan.

Library exchanges

Library exchanges should be sent to the Librarian, the Tôhoku Mathematical Journal, Mathematical Institute, Faculty of Science, Tôhoku University, Sendai, 980 Japan.

Copyrights

All rights reserved under the universal copyright convention.