

# TÔHOKU MATHEMATICAL JOURNAL

## 東北數學雜誌

THE SCIENCE REPORTS OF THE TÔHOKU  
UNIVERSITY, SIXTH SERIES

(FOUNDED BY T. HAYASHI)

---

EDITED BY

RYOSHI HOTTA

SATORU IGARI

JUNJI KATO

TAKESHI KOTAKE

YASUO MORITA

SEIKI NISHIKAWA

TADA ODA

NORIO SHIMAKURA

TOSHIKAZU SUNADA

WITH THE CO-OPERATION OF THE  
MATHEMATICAL INSTITUTE OF TÔHOKU UNIVERSITY

SECOND SERIES VOL. 46, NO. 4

December 1994

---

## 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, 980-77 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, 980-77 Japan.

### **Copyrights**

All rights reserved under the universal copyright convention.