

**OSAKA JOURNAL  
OF  
MATHEMATICS**

**EDITED BY**

**Y. IMAYOSHI**

**S. KOTANI**

**M. MASUDA**

**M. MIYANISHI**

**T. NISHITANI**

**Vol. 35 No. 1**

**March 1998**

**PUBLISHED JOINTLY BY THE  
DEPARTMENTS OF MATHEMATICS  
OSAKA UNIVERSITY AND OSAKA CITY UNIVERSITY**

# OSAKA JOURNAL OF MATHEMATICS

EDITED BY

Y. IMAYOSHI      S. KOTANI      M. MASUDA  
M. MIYANISHI (Chairman)      T. NISHITANI

WITH THE COOPERATION OF

E. DATE	A. FUJIKI	M. FUKUSHIMA
T. HIBI	T. IBUKIYAMA	M. IKAWA
T. KAMAE	A. KASUE	Y. KAMETAKA
K. KAWAKUBO	N. KAWANAKA	A. KAWAUCHI
N. KOISO	T. KOMATSU	T. MABUCHI
A. MATSUMURA	H. NAGAI	M. NAGASE
M. NAMBA	Y. SAKANE	T. SUZUKI
Y. TSUSHIMA	S. USUI	Y. YAMAMOTO

Osaka Journal of Mathematics is published quarterly by the joint editorship of the Department of Mathematics, Graduate School of Science, Osaka University and the Department of Mathematics, Faculty of Science, Osaka City University with the cooperation of the Department of Mathematical Sciences, Faculty of Engineering Science, Osaka University.

The Journal is devoted entirely to the publication of original works in mathematics and related fields. Upon publication of the articles, all copyrights are reserved under the universal copyright conventions by the Departments of Mathematics, Osaka University and Osaka City University and KINOKUNIYA COMPANY LTD.

## Subscription

Subscriptions and orders for back numbers should be sent to

**KINOKUNIYA COMPANY LTD.**

17-7 Shinjuku 3-chome, Shinjuku-ku, Tokyo 163-8636 JAPAN