

# OSAKA JOURNAL OF MATHEMATICS

EDITED BY

S. ARAKI                      M. IKAWA  
N. IKEDA                     H. MORIMOTO  
S. MURAKAMI

WITH THE COOPERATION OF

M. HARADA	T. IKEGAMI	T. KAMAE
K. KAWAKUBO	N. KAWANAKA	A. KAWAUCHI
T. MABUCHI	M. MIYANISHI	M. NAMBA
T. NISHITANI	H. OZEKI	M. TAKEUCHI
H. TANABE	J. TAO	Y. TSUSHIMA
S. USUI	T. WATATABE	Y. YAMAMOTO

Vol. 27 No. 4

December 1990

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

**All communications relating to this publication should be addressed to the Osaka Journal of Mathematics, c/o Department of Mathematics, Faculty of Science, Osaka University, Toyonaka 560, (Osaka), Japan.**

**Starting with Volume 19, each volume of the Osaka Journal of Mathematics consists of four numbers.**