HIROSHIMA MATHEMATICAL JOURNAL

VOLUME 28, NUMBER 3

NOVEMBER, 1998

PUBLISHED BY

DEPARTMENT OF MATHEMATICS FACULTY OF SCIENCE HIROSHIMA UNIVERSITY

Hiroshima Mathematical Journal

Editors

Takao MATUMOTO (Managing Editor)

Yasunori FUJIKOSHI

Izumi KUBO

Masayasu MIMURA

Shinnosuke OHARU

Masaaki UMEHARA

Hideyasu SUMIHIRO Toshiyuki TANISAKI

Hiroshima Mathematical Journal is a continuation of Journal of Science of the Hiroshima University, Series A, Vol. 1~Vol. 25 (1930~1960) and Journal of Science of the Hiroshima University, Series A-I, Vol. 26 ~ Vol. 34 (1961 ~ 1970).

Starting with Volume 4 (1974), each volume of Hiroshima Mathematical Journal consists of three numbers annually. This journal publishes original papers in pure and applied mathematics.

Copyright © 1995 by Department of Mathematics, Faculty of Science, Hiroshima University

> Printed by Daigaku Insatsu Co., LTD. Hiroshima, Japan