

NAGOYA  
MATHEMATICAL JOURNAL

VOL. 45

February 1972

PUBLISHED BY  
MATHEMATICAL INSTITUTE, FACULTY OF SCIENCE  
NAGOYA UNIVERSITY

All communications relating to this publication should be addressed to the Editors of the Nagoya Mathematical Journal, Mathematical Institute, Nagoya University, Chikusa-ku, Nagoya, Japan.

Correspondences concerning subscription, and back issues of the journal should be addressed to

KINOKUNIYA BOOK-STORE CO., LTD.  
826 Tsunohazu 1 chome, Shinjuku-ku,  
TOKYO 160-91 JAPAN

or

KINOKUNIYA BOOK STORES  
OF AMERICA CO., LTD.  
West Bldg., Japanese Cultural and  
Trade Center  
1581 Webster St.,  
San Francisco, CALIFORNIA 94115,  
U.S.A.

The annual subscription price is about \$ 28

NAGOYA  
MATHEMATICAL JOURNAL

VOL. 45

February 1972

Edited by

TAKEYUKI HIDA, NOBORU ITO, TOMIO KUBOTA, SIGEKATU KURODA,  
HIDEYUKI MATSUMURA, HISASI MORIKAWA, AKIHIKO MORIMOTO,  
KIYOSHI NOSHIRO, KATUZI ONO, YOSHIHIRO SHIKATA,  
KÔSAKU YOSIDA

PUBLISHED BY  
MATHEMATICAL INSTITUTE, FACULTY OF SCIENCE  
NAGOYA UNIVERSITY

## CONTENTS

---

Weak Formal Schemes. ....	D. MEREDITH	1
Representations of Chevalley Groups in Characteristic $p$ . ....		
.....	W. J. WONG	39
A Characterization of Odd Order Extensions of the Finite Simple Groups $PSp(4, q)$ , $G_2(q)$ , $D_4^2(q)$ . ....	M. E. HARRIS	79
Singularities of Projective Embedding (Points of Order $n$ on an Elliptic Curve). ....	A. KATO	97
Function-Theoretic Metrics and Boundary Behaviour of Functions Meromorphic or Holomorphic in the Unit Disk. ....		
.....	S. YAMASHITA	109
On Prime Discriminants. ....	L. J. GOLDSTEIN	119
Manifolds Without Green's Formula. ....	M. GLASNER	129
Isometric Immersions of Constant Mean Curvature and Triviality of the Normal Connection. ....	J. ERBACHER	139
On the Field of Rationality for an Abelian Variety. ...	G. SHIMURA	167