

NAGOYA  
MATHEMATICAL JOURNAL

VOL. 27-2

JULY, 1966

PUBLISHED BY  
MATHEMATICAL INSTITUTE, FACULTY OF SCIENCE  
NAGOYA UNIVERSITY

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

NAGOYA  
MATHEMATICAL JOURNAL

VOL. 27-2

JULY, 1966

Edited by

NOBORU ITO, TOMIO KUBOTA, MASATAKE KURANISHI,  
SIGEKATU KURODA, YOZO MATSUSHIMA, HISASI MORIKAWA,  
TADASI NAKAYAMA†, KIYOSHI NOSHIRO, KATUZI ONO,  
TIKAO TATUZAWA, KÔSAKU YOSIDA

PUBLISHED BY  
MATHEMATICAL INSTITUTE, FACULTY OF SCIENCE  
NAGOYA UNIVERSITY



## CONTENTS

---

Some Results on Finite Groups Whose Order Contains a Prime to the First Power.....	R. BRAUER	381
Generators and Relations for Cyclotomic Units.....	H. BASS	401
On Doubly Transitive Groups of Degree $n$ and Order $2(n-1)n$ .....	N. ITO	409
Involutive Property of Resolutions of Differential Operators.....	M. KURANISHI	419
On Block Idempotents of Modular Group Rings.....	M. OSIMA	429
Clifford Algebras and Families of Abelian Varieties.....	I. SATAKE	435
On Some Dualities Concerning Abelian Varieties.....	H. MATSUMURA and M. MIYANISHI	447
Hereditary Semi-primary Rings and Tri-angular Matrix Rings.....	M. HARADA	463
On $q$ -Galois Extensions of Simple Rings.....	H. TOMINAGA	485
Geometry of Group Representations.....	G. DE. B. ROBINSON	509
Character Theory of Finite Groups with Trivial Intersection Subsets.....	J. H. WALTER	515
Eine Kennzeichnung Semi-perfekter Moduln.....	F. KASCH und E. A. MARES	525
Holomorphic Cohomology of Complex Analytic Linear Groups.....	G. HOCHSCHILD and G. D. MOSTOW	531
A Theorem on Analytic Mappings of Complex Manifolds.....	M. KURITA	543
On Meromorphisms of Algebraic Systems.....	J. HASHIMOTO	559
Groups with a Cyclic Sylow Subgroup.....	W. FEIT	571
Orthogonal Group Matrices of Hyperoctahedral Groups.....	J. S. FRAME	585
Cartan Subalgebras of Jordan Algebras.....	N. JACOBSON	591
Simple Algebras over a Commutative Ring.....	A. HATTORI	611
On Some Properties of Prime Factors of Integers.....	P. ERDÖS	617
Splitting of Algebras by Function Fields of One Variable.....	P. ROQUETTE	625
Radical Modules over a Dedekind Domain.....	A. FRÖHLICH	643
A Theorem of Harrison, Kummer Theory, and Galois Algebras.....	S. U. CHASE and A. ROSENBERG	663
On S-Rings in the Sense of F. Kasch.....	K. MORITA	687

Completely Faithful Modules and Self-Injective Rings.....	G. AZUMAYA	697
The Cohomology Groups of Tori in Finite Galois Extensions of Number Fields.....	J. TATE	709
Galois Theory for Rings with Finitely Many Idempotents.....	O. E. VILLAMAYOR and D. ZELINSKY	721
The Schur Multipliers of the Mathieu Groups.....	N. BURGOYNE and P. FONG	733
Lifting Projectives.....	J. R. STROOKER	747