

NAGOYA  
MATHEMATICAL JOURNAL  
VOL. 39

August, 1970

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.

NAGOYA  
MATHEMATICAL JOURNAL  
VOL. 39

August, 1970

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

PUBLISHED BY  
MATHEMATICAL INSTITUTE, FACULTY OF SCIENCE  
NAGOYA UNIVERSITY

## CONTENTS

---

The Centers of Semi-Simple Algebras Over a Commutative Ring, II.		
.....	S. ENDO AND Y. WATANABE	1
Sample Properties of Weakly Stationary Processes.		
.....	T. KAWATA AND I. KUBO	7
Note on the Characters of Solvable Groups.	N. ITO	23
On Holomorphic Families of Holomorphic Maps.	D. ORTH	29
A Characterization of the Finite Simple Groups $PSp(4,q)$ , $G_2(q)$ , $D_4^2(q)$ , II.	P. FONG	39
Some Homogeneous Einstein Manifolds.	ARTHUR A. SAGLE	81
On the Growth of Solutions of Algebraic Differential Equations Whose Coefficients are Arbitrary Entire Functions.		
.....	S. BANK	107
Propriétés des Solutions Faibles Non Négatives de L'équation Para- bolique.	J. CHABROWSKI	119
On a Problem of Doob Concerning Multiply Superharmonic Func- tions.	K. GOWRISANKARAN	127
The Behaviour of Meromorphic Functions with a Set of Singularities of the Class $N_B^0$ .	A. SAGAWA	133
Integral Normal Bases in Galois Extensions of Local Fields.		
.....	S. ULLOM	141
Normal Light Interior Functions Defined in the Unit Disk.		
.....	J.H. MATHEWS	149
Evans-Kuramochi Exhaustion Functions on Non-Algebroid Rie- mann Surfaces.	J.H. SKEATH	157
Elementary Quotients of Abelian Groups, and Singular Homology on Manifolds.		
.....	MARSTON MORSE AND STEWART SCOTT CAIRNS	167
Correction to "Green's Functions for Generalized Schroedinger Equations" in Nagoya Mathematical Journal, Vol. 35. ...		
.....	JOHN A. BEEKMAN	199