# Tôhoku Mathematical Journal

## 東北數學雜誌

(FOUNDED BY T. HAYASHI)

EDITED BY

SHIGEO SASAKI GEN-ICHIRÔ SUNOUCHI TADAO TANNAKA

WITH THE CO-OPERATION OF THE

MATHEMATICAL INSTITUTE OF TÔHOKU UNIVERSITY

AND

HITOSHI HOMBU SHIN-ICHI IZUMI Yukiyosi Kawada Atuo Komatu Motokiti Kondô Kiyoshi Noshiro

Kôsaku Yosida

SECOND SERIES. VOL. 6,

1954

THE TÔHOKU UNIVERSITY SENDAI, JAPAN

## CONTENTS

#### Volume 6, 1954

	Page
CARLITZ, L., Some partition formulas	
FUKAMIYA, M., MISONOU, Y. and TAKEDA, Z., On order and commu-	
tativity of $B^*$ -algebras	
HIROKAWA, H., Uniform convergence of some trigonometrical series.	
ISHIGURO, K., Sur le probleme de l'équation fonctionnelle.	1
ISHIHARA, S., Fibred Riemannian spaces with isometric parallel	~ . ~
fibres	
IZUMI, S., Some trigonometrical series IX	
IZUMI, S., Some trigonometrical series X	
IZUMI, S., Some trigonometrical series XI	
IZUMI, S. and SATO, M., Integrability of trigonometrical series I	
IZUMI, Y., Sur les formes normales	
KANNO, K., On the Riemann summability	156
KAWATA, T., Remarks on prediction problem in the theory of	
stationary stochastic processes	
KINUKAWA, M., On the Cesàro summability of Fourier series	
KUNIYOSHI, H., On purely-transcendency of a field	
MISONOU, Y., FUKAMIYA, M. and TAKEDA, Z., On order and commu-	
tativity of $B^*$ -algebras	
MISONOU, Y., On the direct product of $W^*$ -algebras	189
MISRA, B. and MOHANTY, R., On absolute logarithmic summability	
of a sequence related to a Fourier series	. 5
MIYADERA, I., On the generation of a strongly ergodic semigroup	
of operators	38
MIYADERA, I., On the generation of strongly ergodic semigroups	
of operators II	231
MOHANTY, R. and MISRA, B., On absolute logarithmic summability	
of a sequence related to a Fourier series	5
NAKAMURA, M. and TURUMARU, T., Completely continuous operators	
with property F 1	74
NAKAMURA, M. and TURUMARU, T., Expectations in an operator	
algebra 1	.82
NAKAMURA, M., On the direct product of finite factors 2	05
NAKAMURA, M. and TURUMARU, T., On extensions of pure states	
of an abelian operator algebra 2	53
PRIMROSE, E. J. F., Coincidence points of a curve	35
SASAKI, S., On the influence of the topological structure of	
Riemannian manifolds upon their holonomy groups 1	35

SATO, M. and IZUMI, S., Integrability of trigonometrical series I .	·258
SUNOUCHI, G., On the strong summability of power series and	
Fourier series	220
SUZUKI, H., A product in homotopy theory	. 78
TAKEDA, Z., FUKAMIYA, M. and MISONOU, Y., On order and commu	L
tativity of B*-algebras	89
TAKEDA, Z., On the representations of operator algebras, II	212
TERADA, F., Complex multiplication and principal ideal theorem	. 21
TERARA, F., On a generelized principal ideal theorem	. 95
TSURUMI, S., On the ergodic theorem	. 53
TSURUMI, S., On general ergodic theorems	264
TURUMARU, T. and NAKAMURA, M., Completely continuous operators	
with property F	174
TURUMARU, T. and NAKAMURA, M., Expectations in an operator	
algebra	182
TURUMARU, T., On the direct-product of operator algebras, III	208
TURUMARU, T. and NAKAMURA, M., On extensions of pure states	
of an abelian operator algebra	253
UMEGAKI, H., Conditional expectation in an operator algebra	177
WAKAKUWA, H., On $n$ -dimensional Riemanian spaces admitting	
some groups of motions of order less than $n(n-1)/2$	121
YANO, S., A convergence test for Walsh-Fourier series	<b>2</b> 26

### **CONTENTS**

	Page
F. Terada · On a generelized principal ideal theorem	
H. Kuniyoshi : On purely-transcendency of a field1	.01
M. Kinukawa : On the Cesàro summability of Fourier series1	.09
H. Wakakuwa : On <i>n</i> -dimensional Riemannian spaces admitting	
some groups of motions of order less than $n(n-1)/2$ 1	21
S. Sasaki : On the influence of the topological structure of	
Riemannian manifolds upon their homology groups1	.35
L. Carlitz : Some partition formulas1	
K.Kanno : On the Riemann summability1	56
H. Hirokawa : Uniform convergence of some trigonometrical	
series1	.62
M. Nakamura and T. Turumaru : Completely continuous operators	
with property F1	
H. Umegaki : Conditional expectation in an operator algebra1	77
M. Nakamura and T. Turumaru : Expectations in an operator	
algebra1	
Y. Misonou : On the direct product of W*-algebras1	
M. Nakamura : On the direct product of finite factors2	
T. Turumaru : On the direct-product of operator algebras, III2	
Z. Takeda : On the represesentations of operator algebras, II2	12
G. Sunouchi : On the strong summability of power series and	
Fourier series	
S. Yano : A convergence test for Walsh-Fourier series	26
I. Miyadera : On the generation of strongly ergodic semi-groups	
of operators, II2	31
S. Ishihara : Fibred Riemannian spaces with isometric parallel	
fibres	43
M. Nakamura and T. Turumaru : On extensions of pure states	
of an abelian operator algebra2	
S. Izumi and M. Sato : Integrability of trigonometrical series, I2	
S. Turumi : On general ergodic theorems	54