PROCEEDINGS

OF THE JAPAN ACADEMY

SERIES A MATHEMATICAL SCIENCES

CONTENTS

| Papers Communicated:— | |
|---|-----|
| F | age |
| T. Kato: Principal Transformations between Riemann Surfaces | 37 |
| Y. C. Kim and H. M. Srivastava: Some Families of Generalized Hypergeometric | |
| Functions Associated with the Hardy Space of Analytic Functions | 41 |
| H. KIMURA, Y. HARAOKA and K. TAKANO: On Contiguity Relations of the Confluent | |
| Hypergeometric Systems | 47 |
| H. YAMASHITA: Associated Varieties and Gelfand-Kirillov Dimensions for the | |
| Discrete Series of a Semisimple Lie Group | 50 |
| S. LOUBOUTIN and R. OKAZAKI: Determination of All Quaternion Octic CM-fields | |
| with Ideal Class Groups of Exponents 2. Abridged Version | 56 |
| H. OCHIAI, T. OSHIMA and H. SEKIGUCHI: Commuting Families of Symmetric | |
| Differential Operators | 62 |
| Proceedings at the 876th General Meeting | III |

Published by the Japan Academy
Ueno Park, Tokyo

THE JAPAN ACADEMY

(THE IMPERIAL ACADEMY OF JAPAN TILL DEC., 1947)

PRESIDENT: Yoshitaro WAKIMURA SECRETARY-GENERAL: Yoshio FUJITA CHAIRMAN OF SECTION I: Teiji ICHIKO

CHAIRMAN OF SECTION II: Naohide HIRATSUKA

PUBLICATION COMMITTEE

CHAIRMAN: THE SECRETARY-GENERAL

Shigemitsu DANDO (Criminal Law and Procedure)

Takeo NAGAMIYA (Solid State Physics)

Setsuro EBASHI (Pharmacology and

Hajime NAKAMURA (Indian and Comparative Philosophy)

Biophysics)

Shunzo OKAMOTO (Civil Engineering)

Sueo Ikehara (Private International Law)

Tsutomu Ouchi (Economic Theory, Economic Policy)

Takashi Sugimura (Biochemistry, Oncology)

Shokichi IYANAGA (Mathematics)

Teiji Ichiko (Japanese Literature)

Motoo KIMURA (Genetics)

Shigejiro Tabata (International Law)

Masanao Matsui (Agricultural Chemistry)

Notes

The papers printed in the Proceedings are generally résumés, while the publication of the full texts is left to the respective authors' choice.

All communications relating to the Proceedings should be addressed to the Secretary-General at the Office of the Academy, Ueno Park, Tokyo, 110.

Those who desire for particular articles may apply for their reprints to the respective authors.

Agents: Maruzen Co. Ltd., 3-10, Nihonbashi 2 Chome, Chuo-ku, Tokyo, 103