FEBRUARY, 1987

VOL. LXIII, Ser. A, No. 2 PJAADT 63A(2) 27-46 (1987) ISSN 0386-2194

## PROCEEDINGS

### OF THE

# JAPAN ACADEMY

### SERIES A

#### MATHEMATICAL SCIENCES

#### CONTENTS

Papers Communicated:-

Pa	age
S. KATAYAMA: The Euler Number and Other Arithmetical Invariants	
for Finite Galois Extensions of Algebraic Number Fields	27
H. ISHIKAWA and Y. TANIGAWA: The Dimension Formula of the Space	
of Cusp Forms of Weight One for $\Gamma_0(p)$	31
H. ITO: On a Problem of Yamamoto Concerning Biquadratic Gauss	
Sums	
N. INNAMI: A Proof of Existence of The Stable Jacobi Tensor	39
K. HOTTA: On the Relative CR Structure	42
Proceedings at the 806th General Meeting	III

Published by the Japan Academy Ueno Park, Tokyo

## THE JAPAN ACADEMY

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

PRESIDENT: Toshio KUROKAWA SECRETARY-GENERAL: Yoshitaro WAKIMURA CHAIRMAN OF SECTION I: Yoshitake Oka CHAIRMAN OF SECTION II: Yoshio FUJITA

#### PUBLICATION COMMITTEE

CHAIRMAN: THE SECRETARY-GENERAL

Setsuro EBASHI (Pharmacology and Biophysics)	Tsunahiro KIKUI (Law of Civil Procedure)
Yoshio FUJITA (Astronomy)	Fumio NAKAJIMA (English Linguistics)
Shinji FUKUI (Mechanical Engineering)	Kiyoshi Takewaki (Endocrinology)
Naohide HIRATSUKA (Plant Pathology and Mycology)	Takao TSUCHIYA (Economic History of Japan)
Teiji Iсніко (Japanese Literature)	Yuzo YAMADA (Economics)
Yasuji KATSUKI (Physiology)	Kisaburo YOKOTA (Public International Law)
Masaakira KATSUMOTO (Civil Law and Copyright Law)	Kôsaku Yosida (Mathematics)

#### 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