

# PROCEEDINGS

## OF THE

# JAPAN ACADEMY

---

### SERIES A

### MATHEMATICAL SCIENCES

---

### CONTENTS

#### Papers Communicated:—

	Page
K. KAWADA: On the Asymptotic formula for the Number of Representations of Numbers as the Sum of a Prime and a $k$ -th Power .....	288
K. TAKAKUWA and Y. ASAEDA: On a Conjecture on Pythagorean Numbers. II. ....	287
K. NAGAO: An Example of Elliptic Curve over $Q$ with Rank $\geq 20$ . ....	291
M. TABAÁ: Compacité linéaire et lemme de Hensel. ....	294
Z. OHMORI: On the Existence of Characters of the Schur Index 2 of the Simple Finite Steinberg Groups of Type $({}^2E_6)$ .....	296
M. TOYOIZUMI: On Certain Infinite Series of Dirichlet Type .....	299
M. KATSURADA and K. MATSUMOTO: Explicit Formulas and Asymptotic Expansions for Certain Mean Square of Hurwitz Zeta-functions .....	308
R. IWAHASHI: On the Intersection of Continuous Local Tents .....	308
T. OGIWARA: Nonlinear Perron-Frobenius Problem for Order-preserving Mappings. I. ....	312
T. OGIWARA: Nonlinear Perron-Frobenius Problem for Order-preserving Mappings. II. Applications. ....	317
N. JIN: Some Remarks on the Class of Riemann Surfaces with $(W)$ -property .....	322
K. ISHIZAKI: Meromorphic Solutions of Some Second Order Differential Equations .....	327
K. NISHIOKA: Resonance in the Cauchy Problem of a Parabolic Equation .....	331
C. P. BOYER, K. GALICKI, and B. M. MANN: 8-Sasakian Manifolds .....	335
K. AOMOTO and Y. KATO: Gauss Decomposition of Connection Matrices and Application to Yang-Baxter Equation. II .....	341
Proceedings at the 872nd General Meeting .....	XXIX