

## PROCEEDINGS AT THE 872ND GENERAL MEETING

The 872nd General Meeting of the Academy was held on Tuesday, October 12, 1993, at 1:00 p.m., Dr. Yoshitaro WAKIMURA, President, taking the chair. Seventy-three members were present, and the following communications were made:

- The idea of "Philosophy" in Indian tradition ..... Hajime NAKAMURA, M. J. A.  
 Schumpeter on democracy ..... Hisao KUMAGAI, M. J. A.  
 Direct sequencing of *Butyrivibrio fibrisolvens* 16S rRNA genes and their 3'-and  
 5'-flanking regions .....  
 ..... Su Jun DENG, Ronald M. TEATHER, Robert J. FORSTER, and Chuji HIRUKI  
 Communicated by Naohide HIRATSUKA, M. J. A.
- Cytokine production by peripheral blood mononuclear cells and metabolic  
 turnover of bone during pregnancy .....  
 ..... Hideoki FUKUOKA, Megumi KIRIYAMA, Makoto HIGURASHI, Toshie HONDA,  
 Kazuo SATOH, Tsuyoshi OOISHI, Kazuhiro KUSHIDA, and Tetsuo INOUE  
 Communicated by Masao ITO, M. J. A.
- Synthesis of polyesters by enzymatic ring-opening copolymerization using lipase  
 catalyst ..... Hiroshi UYAMA, Kazuhiro TAKEYA, and Shiro KOBAYASHI  
 Communicated by Seizo OKAMURA, M. J. A.
- Evolution of the deep structure of seamounts viewed from gravity anomaly .....  
 ..... Yoshibumi TOMODA, M. J. A., and Yukihide AKIYAMA
- On the asymptotic formula for the number of representations of numbers as the  
 sum of a prime and a  $k$ -th power ..... Koichi KAWADA
- On a conjecture on pythagorean numbers. II .... Kei TAKAKUWA and You ASAEDA
- An example of elliptic curve over  $Q$  with rank  $\geq 20$ . .... Koh-ichi NAGAO
- Compacité linéaire et lemme de Hensel ..... Mohamed TABAA
- On the existence of characters of the Schur index 2 of the simple finite Steinberg  
 groups of type  $({}^2E_6)$  ..... Zyozyu OHMORI
- On certain infinite series of Dirichlet type ..... Masao TOYOIZUMI
- Explicit formulas and asymptotic expansions for certain mean square of Hurwitz  
 zeta-functions ..... Masanori KATSURADA and Kohji MATSUMOTO  
 Above seven, communicated by Shokichi IYANAGA, M. J. A.
- On the intersection of continuous local tents ..... Ryôsuke IWAHASHI
- Nonlinear Perron-Frobenius problem for order-preserving mappings. I. ....  
 ..... Toshiko OGIWARA
- Nonlinear Perron-Frobenius problem for order-preserving mappings. II. Applica-  
 tions ..... Toshiko OGIWARA
- Some remarks on the class of Riemann surfaces with  $(W)$ -property .... Naondo JIN
- Meromorphic solutions of some second order differential equations .....  
 ..... Katsuya ISHIZAKI
- Resonance in the Cauchy problem of a parabolic equation ..... Kunio NISHIOKA  
 Above six, communicated by Kiyosi ITÔ, M. J. A.
- 3-Sasakian manifolds .....  
 ..... Charles P. BOYER, Krzysztof GALICKI, and Benjamin M. MANN
- Gauss decomposition of connection matrices and application to Yang-Baxter  
 equation. II ..... Kazuhiko AOMOTO and Yoshifumi KATO  
 Above two, communicated by Heisuke HIRONAKA, M. J. A.
- Ordered binding model as a general tight coupling mechanism for bioenergy  
 transduction. A hypothesis ..... Ichiro YAMATO
- Infrared dichroism of an elastic portion (1200 kDa fragment) of connectin. ....  
 ..... Yuni NAKAUCHI, Akira TOYAMA, Issei HARADA, and Koscak MARUYAMA