PROCEEDINGS AT THE 911ST GENERAL MEETING

The 911st General Meeting of the Academy was held on Friday, September 12, 1997, at 1:00 p.m., Dr. Yoshio FUJITA, President, taking the chair. Ninety-seven members were present, and the following communications were made:

The significance of Sankinkotai-system . . . . Kota KODAMA, M. J. A.

Japanese Civil Code . . . . Eiichi HOSHINO, M. J. A.

Analysis of surface molecular motion of amorphous polymeric solids on the basis of scanning force microscopy and X-ray photoelectron spectroscopy . . . .
. . . . Tisato KAJIYAMA, Keiji TANAKA, and Atsushi TAKAHARA
Communicated by Seizo OKAMURA, M. J. A.

Growth of *Mycobacterium leprae* in macrophages *in vitro* . . . . Nobutaka OSAWA

Growth of *Mycobacterium leprae in vitro* . . . . Nobutaka OSAWA
Above two, communicated by Kiku NAKAO, M. J. A.

Multiplicity of the discrete delay time of the response of the solar total irradiance variation to the long-term solar magnetic cycle amplitude modulation deduced from the greenland ^{10}Be data. . . . .
. . . . Hirokazu YOSHIMURA

Decadal components of the solar total irradiance and terrestrial climatic variations as seen in the land air temperature anomaly and Lake Victoria water level changes . . . . Hirokazu YOSHIMURA
Above two, communicated by Yoshio FUJITA, M. J. A.

The origin of a linear mitochondrial plasmid (mF) that promotes mitochondrial fusion in laboratory strains of *physarum polycephalum* . . . . . Shigeyuki KAWANO, Takashi ABE, Kimie MORI, and Hiroyoshi TAKANO
Communicated by Noburô KAMIYA, M. J. A.

Antitumor effect of indomethacin and telomerase activity in the tumor in Colon 26 bearing CDF$_1$ mice . .
. . . . Mitsuharu OGINO, Hisashi HISATOMI, and Makoto HANAZONO

Three-dimensional structure of microbial 2-hydroxyl-6-oxo-6-phenylhexa-2,4-dienoic acid (HPDA) hydrolase (BphD enzyme) from *Rhodococcus* sp. strain RHA1, in the PCB degradation pathway . . . .
. . . . Narayanasamy NANDHAGOPAL,
Toshiya SENDA, Takashi HATTA, Akihiro YAMADA, Eiji MASAI, Masao FUKUDA, and Yukio MITSUI

Capture of [^{3}H]-choline by fibrocytes of frog motor endplate region . . . .
. . . . Shigeru TSUJI, Ion MOTELICA-HEINO, and Philippe ANGLADE
Above three, communicated by Setsuro EBASHI, M. J. A.

Multifractal spectrum of multinomial meadsues . . . .
. . . . Tatsuya OKADA, Takeshi SEKIGUCHI, and Yasunobu SHIOTA

On the local energy decay of higher derivatives of solutions for the equations of motion of compressible viscous and heat-conductive gases in an exterior domain in $\mathbf{R}^3$ . . . . Takayuki KOBAYASHI

The generalized whittaker functions for several admissible representations of $Sp(2, \mathbf{R})$ . . . .
. . . . Takuya MIYAZAKI

Asymptotic behavior of solutions of certain second order differential equations at infinity . . . .
. . . . Tetsumi YOSHINAGA

On the zeros of $\sum a_i \, expg_j$ . . . . Tuen-Wai NG and Chung-Chun YANG
Above five, communicated by Kiyosi ITÔ, M. J. A.

Transcendence of Rogers-Ramanujan continued fraction and reciprocal sums of Fibonacci numbers . . .
. . . . Daniel DUVERNEY, Keiji NISHIOKA, Kumiko NISHIOKA, and Iekata SHIOKAWA

On hasse principle for $x^n = a$ . . . . Takashi ONO and Tomohide TERASOMA

A remark on naive height of a polarized abelian variety and its applications . . . . Masami FUJIMORI

A note on the diophantine equation $(m^3 - 3m)^x + (3m^2 - 1)^y = (m^2 +)^z$ . . . . Maohua LE
Above four, communicated by Shokichi IYANAGA, M. J. A.

After a recess during which the members present met in their respective Sections, the General Meeting was resumed for business transactions.

First, the President announced that Dr. Shiro MASUDA, M.J.A., had passed away on June 22, 1997, Dr. Kunihiko KODAIRA, M.J.A., on July 26, 1997, and Dr. Tetsu ISOMURA, M.J.A., on August 23, 1997; the members rose from their seats in silence, expressing profound sense of grief.

Next, the Chairmen of both Sections made reports of the matters dealt with at the respective Sectional Meetings.

Then, a report was made by Dr. Masaaki KUBO, M.J.A., on his mission to the 71st Session of the International Union of Academies held in Jerusalem in June this year.

The Meeting adjourned at 5:00 p.m.

PROCEEDINGS OF THE JAPAN ACADEMY

SERIES A
MATHEMATICAL SCIENCES

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Papers Communicated:—