

## PROCEEDINGS AT THE 864TH GENERAL MEETING

The 864th General Meeting of the Academy was held on Monday, December 14, 1992, at 1:05 p.m., Dr. Yoshitaro WAKIMURA, President, taking the chair. Eighty-two members were present, and the following communication were made:

- Royal consecration, bathing and dragon—Southeast Asian traditions— . . . . .  
 . . . . . Tatsuro YAMAMOTO, M. J. A.
- The social contract as a fiction . . . . . Saburo KURUSU, M. J. A.
- A criterion for algebraicity of analytic set germs . . . . . Shuzo IZUMI  
 Communicated by Heisuke HIRONAKA, M. J. A.
- On the Dirichlet form on a Lusinian state space . . . . . Kazuaki NAKANE
- Criteria for the finiteness of restriction of  $U(\mathfrak{g})$ -modules to subalgebras and  
 applications to Harish-Chandra modules . . . . . Hiroshi YAMASHITA
- Spectral concentration and resonances for unitary operators. . . . .  
 . . . . . Kazuo WATANABE
- A criterion for multivalent functions. . . . . Jian Lin LI
- On the starlikeness of the Alexander integral operator. . . . . Chunyi GAO  
 Above five, communicated by Kiyosi ITÔ, M. J. A.
- Use of a new diamond composite for multianvil high-pressure apparatus . . . . .  
 . . . . . Tetsuo IRIFUNE, Wataru UTSUMI, and Takehiko YAGI
- High-pressure synthesis of diamond from organic compounds. . . . .  
 . . . . . Akifumi ONODERA, Kaichi SUITO, and Yasuhiro MORIGAMI
- In situ* X-ray observation of iron hydride under high pressure and high  
 temperature . . . . . Masaaki YAMAKATA, Takehiko YAGI, Wataru UTSUMI, and Yuh FUKAI  
 Above three, communicated by Syun-iti AKIMOTO, M. J. A.
- Primitive  $\pi$ -regular semigroups. . . . . Stojan BOGDANOVIĆ and Miroslav ĆIRIĆ
- On the cardinality of value set of polynomials with coefficients in a finite field. . . . .  
 . . . . . Javier GOMEZ-CALDERON
- On the regularity of prehomogeneous vector spaces . . . . . Akihiko GYOJA
- A note on certain infinite products. . . . . Masao TOYOIZUMI
- Remarks to our former paper, "uniform distribution of some special sequences" . . . . .  
 . . . . . Kazuo GOTO and Takeshi KANO  
 Above five, communicated by Shokichi IYANAGA, M. J. A.
- Medium effect on chemical reactions. Hydrogen abstraction from Alkanes in liquid  
 and solid phases . . . . . Tsuneki ICHIKAWA and Hiroshi YOSHIDA  
 Communicated by Seizo OKAMURA, M. J. A.
- Viral genome delivery into detached and intact leaf tissues of *Vigna unguiculata*  
 by RNA-coated gold particles using the improved particle gun . . . . .  
 . . . . . Chuji HIRUKI, Hideo KAKUTA,  
 Zhongming GE, Gina FIGUEIREDO, Yasuyuki HASHIDOKO, and Junya MIZUTANI
- Distribution of plant pathogenic mollicutes in *Catharanthus roseus* determined by  
*in situ* molecular hybridization and DNA staining with DAPI . . . . .  
 . . . . . Chuji HIRUKI and Sujun DENG  
 Above two, communicated by Naohide HIRATSUKA, M. J. A.
- Stimulus-transcription coupling can be studied by *in situ* hybridization on brain  
 slice preparation. Selective *c-fos* expression in hippocampal CA3 pyramidal cells  
 . . . . . Yuko SEKINO, Takanori HASHIMOTO, and Kunihiko OBATA  
 Communicated by Setsuro EBASHI, M. J. A.