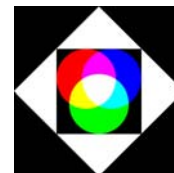


China-Japan Crossover Science Symposium 2005

(Bio-chemical-physics and Particle-Astro-Cosmology)

Morningside Center of Mathematics, October 13-16, 2005



Sponsored by

Institute of Theoretical Physics, Chinese Academy of Sciences (CAS), Beijing /

Ibaraki University, Mito / Capital Normal University, Beijing /

Hebei University of Technology, Tianjin / China Institute of Atomic Energy, Beijing /

China Center of Advanced Science and Technology, Beijing

October 13, Thursday

Chair Yi-Zhong Zhuo

09:00-09:10 Zhong-Can Ou-Yang (Inst. Theor. Phys., CAS): Welcome speech

09:10-09:50 Weimou Zheng (Inst. Theor. Phys., CAS): A Hidden Markov Model for Protein Secondary Structure Prediction

09:50-10:30 Fumihiko Sakata (Ibaraki Univ.): Reaction Coordinate in Nuclear and Bio-chemical systems

10:30-11:00 *Photo and Coffee break*

Chair Takamitsu Kohzuma

11:00-11:40 Zhu-Xia Li (China Inst. Atomic Energy): Quantum molecular dynamics applied in many body system

11:40-11:55 Naito Yamaguchi (Ibaraki Univ.): Theoretical studies on model reaction pathways of prostaglandin D2 synthase

11:55 *Lunch*

Chair Takashi Ogura

14:00-14:40 Weizhong Zhao (Capital Normal Univ.): On the dynamics of DNA

14:40-15:20 Li Sui (China Inst. Atomic Energy): Experimental investigation of DNA damage induced by heavy ions

15:20-15:35 Yoshiko Uchida (Ibaraki Univ.): UV Resonance Raman Spectroscopic Studies of Human Hematopoietic Prostaglandin D2 synthase

15:35-16:00 *Coffee break*

Chair Zhuxia Li

16:00-16:40 Minoru Kaneda and Akio Itoh (Kyoto Univ.): Secondary emission from a liquid water target bombarded by fast ions

16:40-17:20 Jianming Xue (Peking Univ.): Research work of MeV energetic ion application in Peiking Uni.

17:20-17:35 Changqing Yuan (Hebei Univ. Tech.): Dynamics of harmonic oscillator in chaotic bath

17:35-17:50 Yang Song (Hebei Univ. Tech.): Response of a Two-dimensional Neuron Map to Various Types of Inputs

18:00 *Dinner*

October 14, Friday

Chair Qing Ji

09:00-09:40 Takamitsu Kohzuma (Ibaraki Univ.): Second Sphere Weak Interaction Regulates the Electronic Structure of Blue Copper Active Site in Pseudoazurin

09:40-10:20 Jian-Ping Zhang (Inst. Chemistry, CAS): Carotenoid-to-Chlorophyll Excitation Energy Transfer in the Cytochrome b6f from Bryopsis Corticulans

10:20-10:50 *Coffee break*

- Chair Zheng-Yu Wang
- 10:50-11:30 Dongfeng Chen (China Inst. Atomic Energy): Current and future neutron scattering development in China
- 11:30-11:45 Yi-Bin Lin (Hebei Univ. Tech.): N-methy-D-aspartate receptors dynamics
- 11:45-12:00 Takayuki Higuchi (Ibaraki Univ.): Structure and Function of Zinc Containing Blastocidin-S Deaminase
- 12:00 *Lunch*
- Chair Akio Itoh
- 14:00-14:40 Qing Ji (Hebei Univ. Tech.): The Weak Bond of Nitric Oxide Dimer
- 14:40-15:20 Haijun Zhou (Inst. Theor. Phys., CAS): Elasticity models for simple and complex biopolymers
- 15:20-15:35 Xiujun Gao (Hebei Univ. Tech.): Kinetic study of stochastic distribution of myosin V' s step size
- 15:35-16:00 *Coffee break*
- Chair Weizhong Zhao
- 16:00-16:40 Takashi Ogura (Univ. Hyogo): Time-Resolved Resonance Raman Study of Dioxygen Activation by Cytochrome c Oxidase in Intact Whole Mitochondria
- 16:40-17:20 Tongjun Zhao (Hebei Univ. Tech.): Theoretical Models of Ion Permeation
- 17:20-17:35 Ning Xie (Hebei Univ. Tech.): Research of ammonia channel
- 17:35-17:50 Yousuke Urahama (Ibaraki Univ.): Structure and Function of Prostaglandin D2 Synthase
- 18:30 *Banquet*
- October 15, Saturday: Excursion**
- 18:00 *Dinner*
- October 16, Sunday**
- Chair Hirohiko Nakamura
- 09:00-09:40 Zhengyu Wang (Ibaraki Univ.): Structure-Function Relationship of photosynthetic membrane proteins
- 09:40-10:20 Bao-Xi Sun (Beijing Univ. Tech.): The screening meson masses in the nuclear matter and density-dependent relativistic mean-field approximation
- 10:20-10:50 *Coffee break*
- Chair Jian-Zhong Gu
- 10:50-11:30 Hirohiko Nakamura (Mitsubishi Research Inst.): On the Semi-Empirical Methodologies to optimize protein crystal growth condition
- 11:30-11:45 Suhua Zhang (Hebei Univ. Tech.): The firing-time distribution of the FitzHugh-Nagumo network coupled by the gap junction
- 11:45-12:00 Xiang-Qun Wang (Hebei Univ. Tech.): Study on a three-state model of Plasma Membrane Calcium Pump
- 12:00 *Lunch*
- Chair Ke Wu
- 14:00-14:40 Jian-Zhong Gu (China Inst. Atomic Energy): Random Matrix Theory and Its Applications to Nuclear Physics and Biophysics
- 14:40-15:20 Yi-Kun He (Capital Normal Univ.): Nitric Oxide Represses the Arabidopsis Floral Transition
- 15:20-15:50 Fumihiko Sakata (Ibaraki Univ.): Closing remarks
- 18:00 *Dinner*