

Program of QBIC Workshop 2014

Dedicated to Professor Masanori Ohya

October 23, 2014, Thursday - Main Session (1)

- 9:55 ~ 10:00 *Opening Address*
- 10:00 ~ 10:45 T. Hida, Emeritus Professor, Nagoya University, Japan,
Multiplicity and dependence in white noise theory (tentative)
- 10:45 ~ 11:30 L. Accardi, Roma II University, Italy
Quantum probability and quantum information
- 11:30 ~ 13:00 **Lunch Break and Poster Presentation**
- 13:00 ~ 13:45 Si Si, Aichi Prefectural University, Japan
TBA
- 13:45 ~ 14:30 R. Belavkin, Middlesex University, UK
Variational problems in quantum information theory
- 14:30 ~ 14:45 **Coffee Break**
- 14:45 ~ 15:30 I. Yamato, Tokyo University of Science, Japan
*Bioenergy transducing mechanism: a principle learnt
from V-ATPase researches*
- 15:30 ~ 16:15 S. Miyazaki, Tokyo University of Science, Japan,
TBA
- 16:15 ~ 16:30 **Coffee Break**
- 16:30 ~ 17:15 K. Sato, Tokyo University of Science, Japan
*The code structure of the receptor binding domain of influenza A
virus hemagglutinin*
- 17:15 ~ 18:00 T. Hara, Tokyo University of Science, Japan
Recent improvements in our PRNG
- 18:30 ~ **Welcome Party** (at Cafeteria (2F) in Canal Hall)

October 24, 2014, Friday - Main Session (2)

- 10:00 ~ 10:45 A. Jamiolkowski, Nicolaus Copernicus University, Poland
On Some Effective Methods in Studies of Compound Systems
- 10:45 ~ 11:30 I. Volovich, Steklov, Mathematical Institute, Russia
Masanori Ohya and Quantum Information
- 11:30 ~ 13:30 **Lunch Break and Poster Presentation (Photo)**
- 13:30 ~ 14:30 M. Ohya, Emeritus Professor, Tokyo University of Science, Japan
Special Talk
- 14:30 ~ 14:45 **Coffee Break**
- 14:45 ~ 15:30 T. Matsuoka, Suwa Tokyo University of Science,
Entanglement on adaptive dynamics
- 15:30 ~ 16:15 S. Iriyama and M. Ohya, Tokyo University of Science, Japan,
Note on new cryptographic algorithms and its open problems
- 16:15 ~ 16:30 **Coffee Break**
- 16:30 ~ 17:15 F. Hiai, Tohoku University, Japan
TBA
- 17:15 ~ 18:00 N. Watanabe, Tokyo University of Science, Japan
On Entropies of Compound Systems
- 18:30 ~ **Banquet** (at Cafeteria (2F) in Canal Hall)

October 25, 2014, Saturday - Main Session (3)

- 10:00 ~ 10:45 W. Freudenberg, Brandenburg University of Technology Cottbus,
Germany,
On a quantum model of the recognition process
- 10:45 ~ 11:30 A. Khrennikov, Linnaeus University, Sweden
*On the problems of quantum measurement theory arising in its
applications to biology and psychology*
- 11:30 ~ 13:00 **Lunch Break and Poster Presentation**
- 13:00 ~ 13:45 I.Ojima, RIMS, Kyoto University, Japan
Local gauge invariance, and Maxwell equation in categorical QFT
- 13:45 ~ 14:30 M. Regoli, Roma II University, Italy
*Using homomorphic encryption techniques for the control of the
minimum distance in cases of harassment with respect of the victim's
privacy*
- 14:30 ~ 14:45 **Coffee Break**
- 14:45 ~ 15:30 S. Pascazio, Universita di Bari, Italy
Quantum typicality
- 15:30 ~ 16:15 F. Mukhamedov, International Islamic University Malaysia
On Kadison - Schwarz Type Operators
- 16:15 ~ 16:30 **Coffee Break**
- 16:30 ~ 17:15 T. Ando, RIKEN, Japan
*Macromolecular dynamics in intracellular environment: Brownian
dynamics simulation study*
- 17:15 ~ 18:00 Y. Tanaka, Tokyo University of Science, Japan
TBA

List of Poster Presentations