Program of QBIC Workshop 2015

October 17, 2015, Saturday - Main Session (1)

$9:55 \sim 10:00$	Opening Address
$10:00 \sim 10:50$	A. Jamiolkowski, Nicolaus Copernicus University, Poland
	On Decompositions of Open Dynamical Systems
	with Time-Dependent Generators
$10:50 \sim 11:40$	D. Chruscinski, Nicolaus Copernicus University, Poland,
	On Admissible Memory Kernels for Random Unitary Qubit Evolution
11:40 ~ 13:30	Lunch Break and Poster Presentation
$13:30 \sim 14:20$	F. Hiai, Emeritus Professor, Tohoku University, Japan
	Quantum divergences and reversibility
$14:20 \sim 15:10$	T. Matsuoka, Suwa Tokyo University of Science,
	Mutual entropy on quantum encoding
$15:10 \sim 15:30$	Coffee Break
$15:30 \sim 16:20$	S. Iriyama and M. Ohya, Tokyo University of Science, Japan,
	Mathematical model of adaptive computation and its application for
	the brain model
$16:20 \sim 17:10$	M. Asano, Tokuyama Technical College, Japan
	Quantum-like Model of Decision-making in Situation of Risk
	and Prospect Theory
$17:10 \sim 17:20$	Coffee Break
$17:20 \sim 17:50$	Y. Saigusa, K. Tahata and S. Tomizawa, Tokyo University of Science,
	Japan
	On decompositions of symmetry for square contingency tables
18:00 ~	Welcome Party (at Cafeteria (2F) in Canal Hall)

October 18, 2015, Sunday - Main Session (2)

$10:00 \sim 10:50$	L. Accardi, Roma II University, Italy
	Q-Jordan-Wigner embeddings and associated white noises
$10:50 \sim 11:40$	M. Regoli, Roma II University, Italy
	Software implementation of a new family of cryptographic algorithms
	problems and solutions
$11:40 \sim 14:00$	Lunch Break and Poster Presentation (Photo)
$14:00 \sim 15:00$	T. Hida, Emeritus Professor, Nagoya University, Japan,
	Some topics on application of white noise theory (special talk)
$15:00 \sim 15:50$	Si Si, Emeritus Professor, Aichi Prefectural University, Myanmar
	The space noise and the convex cone of linear systems
	defined by the noise
$15:50 \sim 16:10$	Coffee Break
$16:10 \sim 17:00$	I. Yamato, Tokyo University of Science, Japan
	Proposal of principles in bioenergy transduction and
	information biology
$17:00 \sim 17:50$	N. Watanabe, Tokyo University of Science, Japan
	Note on Entropies for Quantum Dynamical Systems
18:00 \sim	Banquet (at Cafeteria (2F) in Canal Hall)

October 19, 2015, Monday - Main Session (3)

$10:00 \sim 10:50$	A. Khrennikov, Linnaeus University, Sweden
	Towards quantum-like modeling of decision making:
	Can quantum agents agree to disagree?
$10:50 \sim 11:40$	I. Ojima, RIMS, Kyoto University, Japan
	Geometry of Sector-classifying Space in Categorical QFT
$11:40 \sim 13:00$	Lunch Break
$13:00 \sim 13:50$	K. Kuchitsu, Tokyo University of Science, Japan
	Signaling Network in Plants
$13.50 \sim 14.40$	K. Sato, Tokyo University of Science, Japan
	Prognostic classification of breast cancer based on
	information measure
$14:40 \sim 15:00$	Coffee Break
$15:00 \sim 15:50$	Y. Tanaka, Tokyo University of Science, Japan
	Adaptive dynamics and double slit experiment
$15:50 \sim 16:20$	Y. Kondo and S. Miyazaki, Tokyo University of Science, Japan,
	Functional Site Prediction of Translation Elongation Factor 1A

List of Poster Presentations

- 1. Hiromi Ito, Noboru Watanabe, Tokyo University of Science, Japan On Construction of Connected Channel and its Quantum Capacity
- 2. Takaya Suzuki, Noboru Watanabe, Tokyo University of Science, Japan On state change of FTM gate by using the orthogonal states
- 3. Keita Kohira, Noboru Watanabe, Tokyo University of Science, Japan On construction of quantum logical gates with a general beam splitting by Fichtner-Freudenberg expression
- 4. Masahiro Muto, Noboru Watanabe, Tokyo University of Science, Japan On construction of KOW entropy and its computation for generalized AOW entropy
- 5. Takahiro Obuchi, Noboru Watanabe, Tokyo University of Science, Japan On construction of FTM gate by using two orthogonal input states
- 6. Kyouhei Ohmura, Noboru Watanabe, Tokyo University of Science, Japan Formulations of Quantum Mean Entropy and Quantum Mean Mutual Entropy and Their Computations
- 7. Kenji Hashimoto, Shoji Yabuta, Hidetaka Kaya, Nobutaka Kitahata, Toshihide Hara, Keiko Sato and Kazuyuki Kuchitsu, Tokyo University of Science, Japan *Phylogenetic analyses to explore the evolution of enzymes that produce reactive oxygen species in the plant kingdom*
- 8. Bunki Toh1, Takamitsu Kurusu1,2,3, Yozo Okazaki4, Kotaro Nihira1, Shigeru Hanamata1,5, Tomoko Koyano1, Nobutaka Kitahata2, Noriko Nagata6, Kazuki Saito4, Kazuyuki Kuchitsu1,3, Tokyo University of Science, Japan Roles of autophagy during male reproductive development in rice