

QBIC Workshop 2013 on IDAQP

Dates:

From March 4, Monday to March 5 Tuesday, 2013

Venue:

Research Center of Computational sciences,
Noda Campus of Tokyo University of Science
Noda City, Chiba 278-8510, Japan

a) Main Session

March 4, Monday 10:40 – 16:00

March 5, Tuesday 10:40 – 16:10

at Conference Room (4F) in Research Center of Computational sciences
Noda Campus, Tokyo University of Science

Access (No.12 in the map) :

<http://www.tus.ac.jp/en/campus/noda.html>

URL <http://www.rs.noda.tus.ac.jp/qbic/qbic.html>

QBIC Workshop 2013 on IDAQP

Purpose

The main aim of QBIC and the conference is to create a new paradigm synthesizing Quantum Information and Bio-Informatics based on efforts by active researchers traversing various fields of Mathematics, Physics, Information and Life Science.

Organizer

M. Ohya, Chief (Tokyo University of Science, Japan)

N. Watanabe (Tokyo University of Science, Japan)

Advisory Committee

L. Accardi (Roma II University, Italy)

Karl-Heinz Fichtner (Friedrich-Schiller-Universität Jena, Germany)

Wolfgang Freudenberg (Brandenburgische Technische Universität Cottbus, Germany)

A. Khrennikov (Linnaeus University, Sweden)

I. Volovich (Steklov, Mathematical Institute, Russia)

Local Committee

Y. Togawa (Tokyo University of Science, Japan)

S. Iriyama (Tokyo University of Science, Japan)

I. Yamato (Tokyo University of Science, Japan)

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Invited Speakers

Karl-Heinz Fichtner, Friedrich-Schiller-Universität Jena, Germany

Wolfgang Freudenberg, Brandenburgische Technische Universität Cottbus,
Germany

A. Khrennikov, Linnaeus University, Sweden

*I. Volovich, Steklov Mathematical Institute, Russia

Some QBIC members in Tokyo University of Science

Sponsor

RIST, Tokyo University of Science

Program of QBIC Workshop 2013 on IDAQP

March 4, 2013, Monday - Main Session (1)

- 10:40 ~ 10:50 M. Ohya, Tokyo University of Science, Japan
Opening Address
Silent prayer for Professor Viacheslav Belavkin
- 10:50 ~ 11:40 Wolfgang Freudenberg, Brandenburgische Technische Universitaet
Cottbus, Germany
Symmetrised position distribution of states on the full Fock space I
- 11:40 ~ 12:30 A. Khrennikov, Linnaeus University, Sweden
*Quantum information approach to modeling of cognition and decision
making: decision and intention operators as positive operator-valued
measures*
- 12:30 ~ 13:40 **Lunch Break**
- 13:40 ~ 14:20 N. Watanabe, Tokyo University of Science, Japan
On Entropy Type Measures in Quantum Transmission Processes
- 14:20 ~ 15:00 S. Iriyama, Tokyo University of Science, Japan
*Mathematical Foundation of Generalized Turing Machine and Its
Application*
- 15:00 ~ 15:20 **Coffee Break**
- 15:20 ~ 16:00 T. Hara, Tokyo University of Science, Japan,
A PRNG Based on Nonlinear Map

March 5, 2013, Tuesday - Main Session (2)

- 10:40 ~ 11:30 A. Khrennikov, Linnaeus University, Sweden
Modeling of epigenetic evolution with open quantum systems
- 11:30 ~ 12:20 Karl-Heinz Fichtner, Friedrich-Schiller-Universität Jena, Germany
On the Quantum Zeno Effect
- 12:20 ~ 13:30 **Lunch Break**
- 13:30 ~ 14:20 Wolfgang Freudenberg, Brandenburgische Technische Universität
Cottbus, Germany
Symmetrised position distribution of states on the full Fock space II
- 14:20 ~ 15:00 M. Asano, Tokyo University of Science,
*A Mathematical Realization of von Neumann's Measurement
Scheme*
- 15:00 ~ 15:20 **Coffee Break**
- 15:20 ~ 16:00 Y. Tanaka, Tokyo University of Science, Japan
Adaptive Dynamics on Optical Illusion
- 16:00 ~ 16:10 M. Ohya, Tokyo University of Science, Japan
Closing Address