

EQIS'04

ERATO conference on Quantum Information Science 2004

September 1-5 2004

Hitotsubashi Memorial Hall, Tokyo, Japan

Organized by ERATO Quantum Computation and Information Project
in cooperation with NII (National Institute Informatics)

<http://www.qci.jst.go.jp/eqis04/>

Steering Chair:

Jozef Gruska (Masaryk Univ., Brno)

Conference Chairs:

Hiroshi Imai (ERATO/Univ. Tokyo)

Yoshihisa Yamamoto (NII/Stanford Univ.)

Keynote Speaker:

Richard Jozsa (Univ. Bristol)

Invited Speakers:

Charles H. Bennett (IBM Research)

Isaac Chuang (MIT)

Claude Crépeau (McGill)

Igor Devetak (IBM Research)

James D. Franson (Johns Hopkins Univ.)

Toshimasa Fujisawa (NTT)

Masahiro Kitagawa (Osaka Univ.)

Hirotsada Kobayashi (ERATO)

Michele Mosca (Univ. Waterloo/
St. Jerome's Univ. /Perimeter Inst.)

Michael A. Nielsen (Univ. of Queensland)

Vlatko Vedral (Imperial College)

Program Committee:

Nobuyuki Imoto (SOKEN, Chair)

Masahito Hayashi (ERATO, Vice-chair)

Andris Ambainis (UC Berkeley)

Charles H. Bennett (IBM)

Richard Cleve (University of Calgary)

Osamu Hirota (Tamagawa Univ.)

Alexander S. Holevo (Steklov Institute)

Hoi-Kwong Lo (Univ. of Toronto)

Keiji Matsumoto (ERATO/NII)

Mikio Nakahara (Kinki Univ.)

Martin Plenio (Imperial College)

Masahide Sasaki (NICT/CREST)

Peter W. Shor (MIT)

Akihisa Tomita (ERATO/NEC)

Jaw-Shen Tsai (NEC)

Reinhard F. Werner (TU Braunschweig)

David Wineland (NIST)

Organizing Committee:

Fumitaka Yura (ERATO, Chair)

Kae Nemoto (NII, Vice-chair)

Yosuke Kikuchi (ERATO)

Michiyuki Amaiike (ERATO)

Emi Bandai (ERATO)

Chie Matsumoto (ERATO)

Takako Sakuragi (ERATO)

Yukiko Nakano (NII)

The EQIS meetings are to focus on quantum information science and technology, a new interdisciplinary field bridging computer science, quantum physics, mathematics, information theory, statistics, optics- and nano-technologies. EQIS'04 will be the fourth conference in a series and is to concentrate on theoretical and also experimental aspects of quantum information science.

Contributions for short communications and posters will be solicited in the research areas related to quantum information science, including, but not limited to:

- quantum computation, quantum algorithms
- quantum complexity theory
- quantum computing and automata models
- quantum cryptography
- quantum computer simulators
- quantum information theory
- quantum entanglement, additivity / nonadditivity results
- teleportation and entanglement-assisted communication
- quantum estimation theory
- quantum error correction, decoherence
- quantum optics, NMR and solid state technologies

Important Dates:

- Submission: **CLOSED**
- Notification of Acceptance/Rejection: **Done**
- Submission Deadline for Final Manuscript: **August 6 (Fri)**
- Early Registration Deadline: **CLOSED**
- Registration Deadline : **August 20 (Fri)**

Contact Information:

<http://www.qci.jst.go.jp/eqis04/>

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