

Call for Papers – AQIS'10

10th Asian Conference on Quantum Information Science

August 27-31, 2010

The University of Tokyo, Japan



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The 10th Asian Conference on Quantum Information Science (AQIS'10) is a meeting focused on quantum information science and technology. Since this is a new interdisciplinary field, its broad scope includes advances in various fields such as quantum physics, computer science, mathematics and information technologies.

This event is the memorable tenth conference which builds upon a successful series of EQIS'01-05 and AQIS'06-09 conferences. It will comprise presentations of invited speakers, selected papers and posters. Areas of coverage include but are not limited to:

- Quantum computation, algorithms and complexity
- Quantum information theory
- Quantum error-correction and fault-tolerance, thresholds
- Quantum cryptography
- Quantum communications experiments and theory
- Quantum optics, NMR and solid-state technologies
- Quantum processors and computers design
- Quantum programming languages and semantics

Important Dates:

Submission Deadline	June 14 (Monday), 2010
Notification of Acceptance	July 12 (Monday), 2010
Final Draft (2pp.)	July 30 (Friday), 2010
AQIS'10 Tutorial	August 27, 2010
AQIS'10 Conference	August 28-31, 2010

Keynote Speakers:

David Wineland
(NIST, U.S.A.)

Andrew Yao
(Tsinghua Univ., Beijing)



Invited Speakers:

Dagmar Bruss (HHU Düsseldorf)

Harry Buhrman (Univ. of Amsterdam)

Bill Coish (Univ. of Waterloo)

Jonathan P. Dowling (Louisiana St. Univ.)

Yasunobu Nakamura (NEC Corp.)

Maarten Van den Nest

(Max-Planck Institute)

Tutorial: (open to the public)

Charles Bennett (IBM)

"Quantum information theory"

Harry Buhrman (CWI & Univ. of Amsterdam)

"Quantum non-locality"

Richard Jozsa (Univ. of Cambridge)

"Classical simulation of quantum circuits"

Akihisa Tomita (Hokkaido Univ.)

"Interplay between quantum computation and quantum information"

Conference web site:

<http://www.qci.jst.go.jp/aqis10/>

Contact Information:

JST ERATO-SORST

Quantum Computation and Information Project

5-28-3-201, Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

Tel: +81-3-3818-3314, Fax: +81-3-3818-3313

Email: aqis2010-inquiry@qci.jst.go.jp



Local Committee:

Hiroshi Imai (Chair)

Jun Hasegawa

Kazuki Yoshizoe

Hiroko Takeshima

Organized by **JST ERATO-SORST QCI Project**,

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NII (National Institute of Informatics)

and **the University of Tokyo**