

CALL FOR PAPERS - AQIS'14

14th ASIAN QUANTUM INFORMATION SCIENCE CONFERENCE

August 20-24 2014

(Tutorials: August 20, Main Conference: August 21-24)
Shirankaikan, Kyoto, Japan

Satellite Workshop at the University of Tokyo on Quantum Complexity Theory, August 18

Satellite Workshop at Osaka University on Physics of Quantum Information Processing, August 25-26

Steering Committee Chair:

Jozef GRUSKA (Masaryk Univ., Brno)

Conference Chair:

Kazuo IWAMA (Kyoto Univ., Kyoto)

Invited Speakers:

André CHAILLOUX (INRIA Paris-Rocquencourt)
Aram HARROW (MIT)
Holger HOFMANN (Hiroshima University)
Alexander HOLEVO (Steklov Mathematical Institute)
John MARTINIS (UC Santa Barbara)
Masanao OZAWA (Nagoya University)
Valerio SCARANI (CQT Singapore)
Yoshihisa YAMAMOTO (Stanford University and NII)

Tutorials:

Gilles BRASSARD (Université de Montreal)
Richard CLEVE (IQC Waterloo)
Daniel GOTTESMAN (Perimeter Institute)
Thomas VIDICK (Simons Institute, UC Berkeley)

Program Committee:

Nicolas BRUNNER (U Geneva)
Francesco BUSCEMI (Nagoya Univ.)
Giulio CHIRIBELLA (Tsinghua Univ.)
Richard CLEVE (IQC Waterloo)
Claude CREPEAU (McGill Univ. Montreal)
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Runyao DUAN (UTS Sydney)
Sibasish GHOSH (IMSc Chennai)
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Holger HOFFMAN (Hiroshima Univ.)
Min-Hsiu HSIEH (UTS Sydney)
Nobu IMOTO (Osaka Univ.)
Hyunseok JEONG (Seoul National Univ.)
Richard JOZSA (U Cambridge)
Jaewan KIM (KIAS Seoul)
Yoon-Ho KIM (Pohang Univ.)
Masahiro KITAGAWA (Osaka Univ.)
Masato KOASHI (U Tokyo)
Anil KUMAR (IISC Bangalore)
Francois LE GALL (U Tokyo)
Maciej LEWENSTEIN (ICFO Barcelona)
Yuxi LIU (Tsinghua Univ.)
Hoi-Kwong LO (U Toronto)
Mio MURAO (U Tokyo)
Harumichi NISHIMURA (Nagoya Univ.)
Franco NORI (RIKEN)
Jianwei PAN (USTC Hefei)
Martin PLENIO (U Ulm)
Renato RENNER (ETH Zurich)
Mary-Beth RUSKAI (Tufts Univ. and U Waterloo)
Pranab SEN (TIFR Mumbai)
Rajiah SIMON (IMSc Chennai)
Wonmin SON (Sogang Univ.)
Yoshiro TAKAHASHI (Kyoto Univ.)
Shigeki TAKEUCHI (Hokkaido Univ.)
Akihisa TOMITA (Hokkaido Univ.)
Jaw-Shen TSAI (NEC/Riken, Co-Chair)
Stephanie WEHNER (CQT Singapore)
Mark WILDE (LSU Baton Rouge)
Andreas WINTER (UAB Barcelona, Chair)
Peng XUE (Nanjing Univ.)
Yoshihisa YAMAMOTO (Stanford Univ. and NII)
Dong YANG (Jiliang Univ.)
Jiangqiang YOU (Beijing CSRC)
Shengyu ZHANG (Chinese Univ. Hong Kong)

The AQIS'14 conference will focus on quantum information processing, communication and cryptography, an interdisciplinary field bridging quantum physics, computer science, mathematics, and information technologies.

AQIS'14 will be a natural successor of EQIS'01-EQIS'05 and AQIS'06-AQIS'13. AQIS'14 will consist of invited talks, selected oral and poster presentations, tutorials, as well as other activities. Contributions are solicited in (but not limited to) the following areas:

- Quantum computation, algorithms and complexity
- Quantum information theory
- Concepts, methods and tools against decoherence
- Quantum cryptography
- Quantum communications experiments and theory
- Quantum technologies (optics-, NMR- and solid-state,...)
- Quantum processor and computer design
- Quantum programming languages and semantics

Important Dates:

(All at 23:59 Anywhere on Earth (AoE), in 2014)

- Submission deadline: 8 June 2014
- Notification of acceptance: 7 July 2014
- Final manuscript deadline: 22 July 2014
- Early registration deadline: 22 July 2014

Conference Web Site:

<http://cs.e.yamagata-u.ac.jp/aqis14/>

Organizing Committee:

Kazuo IWAMA (Kyoto Univ., Chair)
Masaki NAKANISHI (Yamagata Univ.)
Shigeru YAMASHITA (Ritsumeikan Univ., Chair)

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