



12th Asian Quantum Information Science Conference

August 23-26, 2012

Suzhou, China

<http://physics.suda.edu.cn/aqis12/>

<http://www.aqis12.info/>

Organized by Soochow University

Co-organized by Laser & Optical Engineering Society of Suzhou

Steering Committee Chair:

Jozef Gruska (Masaryk U, Czech Republic)

Conference Chairs:

Guang-Can Guo (USTC, China)

Shi-Qun Zhu (Soochow U, China)

Conference Co-Chairs:

Hiroshi Imai (Tokyo U, Japan)

Jaewan Kim (KIAS, Korea)

Keynote Speakers and

Invited Speakers:

Markus Aspelmeyer (Vienna U, Austria)

Fernando Brandao (NUS, Singapore)

David DiVincenzo (RWTH, Germany)

Charles Marcus (Harvard U, USA)

Sandu Popescu (Bristol U, UK)

David Poulin (Sherbrooke U, Canada)

Jaw-Shen Tsai (NEC & RIKEN, Japan)

Harald Weinfurter (München U, Germany)

Ming-Sheng Ying (Tsinghua U, China)

Organizing Committee:

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Ming-Rong Shen (Soochow U, China)

Bao-Sen Shi (USTC, China)

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Shigeru Yamashita (Ritsumeikan U, Japan)

Sheng-Mei Zhao (NUPT, China)

Shi-Qun Zhu (Soochow U, China) -chair

Important Dates:

(All at 11:59 p.m. in US Pacific Standard Time, in 2012)

- Submission Deadlines: June 14, 2012
- Notification of Acceptance: July 12, 2012
- Final Manuscript deadline: July 31, 2012
- Early Registration Deadline: August 5, 2012

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The AQIS'12 conference will focus on quantum information science and technology, a new interdisciplinary field bridging quantum physics, computer science, mathematics, and information technologies.

AQIS'12 will be a natural successor of EQIS'01-EQIS'05 and AQIS'06-AQIS'11. AQIS'12 will consist of invited talks, selected presentations, posters, and other activities. Contributions are solicited in the following areas (but not limited to):

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

Program Committee:

Andris Ambainis (Riga U, Latvia)

Almut Beige (Leeds U, UK)

Charles Bennett (IBM Yorktown Heights) -co-chair

Gilles Brassard (Montreal U, Canada)

Sergey Bravyi (IBM, USA)

Caslav Brukner (Vienna U, Austria)

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Runyao Duan (UTS, Australia)

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Guang-Can Guo (USTC, China) -co-chair

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Michal Horodecki (Gdansk U, Poland)

Kazuo Iwama (Kyoto U, Japan)

Richard Jozsa (Bristol U, UK)

Masato Koashi (Osaka U, Japan)

Julien Laurant (CBRS, France)

Hai-Wong Lee (KIAS, Korea)

Hoi-Kwong Lo (Toronto U, Japan)

Gui-Lu Long (Tsinghua U, China)

Franco Nori (U of Michigan/RIKEN, USA)

Arun K. Pati (Allahabad U, India)

Kun-Chi Peng (Shanxi U, China)

Simon Perdrix (Grenoble U, France)

Martin Plenio (Imperial College, UK)

Sandu Popescu (Bristol U, UK)

Daowen Qiu (Sun Yat-Sen U, China)

Renato Renner (ETH, Switzerland)

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Barry Sanders (Calgary U, Canada)

Rajiah Simon (IMS, India)

Graeme Smith (IBM, USA)

Chang-Pu Sun (ITP, China)

Shigeaki Takeuchi (Hokkaido U, Japan)

Akihisa Tomita (Hokkaido U, Japan)

Peter Van Loock (Max Planck, Germany)

Vlatko Vedral (NUS, Singapore)

Yu-Zhu Wang (SIOM, China)

Stephanie Wehner (NUS, Singapore)

Brigitte Whaley (U Calif. Berkeley, USA)

Andreas Winter (Bristol, UK/NUS, Singapore)

Shigeru Yamashita (Ritsumeikan U, Japan)

Anton Zeilinger (Vienna U, Austria)

Wei-Ping Zhang (ECNU, China)

Peter Zoller (Innsbruck U, Austria)

Marek Zukowski (Gdansk U, Poland)

