

# 13th Asian Quantum Information Science Conference

August 25-30, 2013

Chennai, India

<http://www.imsc.res.in/~aqis13>

Organized by The Institute of Mathematical Sciences, Chennai



CELEBRATING



## Program Committee: (To be completed)

Girish S Agarwal (Oklahoma State U, Stillwater, USA)

Andris Ambainis (U Latvia, Riga, Latvia)

V Arvind (IMSc, Chennai)

Somshubhro Bandyopadhyay (Bose Institute, Kolkata)

Almut Beige (U Leeds, UK)

Charles Bennett (IBM, Yorktown Heights, USA)

Gilles Brassard (U Montréal, Canada) – (Chair)

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Giulio Chiribella (Tsinghua U, Beijing, China)

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Sibasish Ghosh (IMSc, Chennai)

Guang-Can Guo (USTC, Hefei, China)

Aram Harrow (MIT, Boston, USA)

Masahito Hayashi (Nagoya U, Japan)

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Hyunseok Jeong (SNU, Seoul, Korea)

Richard Jozsa (U Cambridge, UK)

Guruprasad Kar (ISI, Kolkata)

Jaewan Kim (KIAS, Seoul, Korea)

Masato Koashi (U Tokyo, Japan)

Julien Laurat (CNRS, Paris, France)

Hai-Woong Lee (KAIST, Daejeon, Korea)

Jinhyoung Lee (Hanyang U, Seoul, Korea)

Hoi-Kwong Lo (U Toronto, Canada)

Gui-Lu Long (Tsinghua U, Beijing, China)

T S Mahesh (IISER, Pune)

Kae Nemoto (NII, Tokyo, Japan)

Franco Nori (U Michigan, Ann Arbor, USA)

Apoorva Patel (IISc, Bengaluru)

Arun K Pati (HRI, Allahabad)

Marcin Pawłowski (U Bristol, UK)

Simon Perdrix (CNRS, Grenoble, France)

Martin Plenio (U Ulm, Germany)

Sandu Popescu (U Bristol, UK)

Daowen Qiu (Sun Yat-sen U, Guangzhou, China)

Renato Renner (ETH Zürich, Switzerland)

Barry Sanders (U Calgary, Canada)

Ujjwal Sen (HRI, Allahabad)

Rajiah Simon (IMSc, Chennai) – (Chair)

Graeme Smith (IBM, Yorktown Heights, USA)

Antoine Suarez (CQP, Zürich, Switzerland)

V S Sunder (IMSc, Chennai)

Shigeki Takeuchi (Hokkaido U, Sapporo, Japan)

Akihisa Tomita (Hokkaido U, Sapporo, Japan)

Peter Van Loock (MPI, Erlangen, Germany)

Stephanie Wehner (CQT, Singapore)

Birgitta Whaley (U California, Berkeley, USA)

Andreas Winter (U Barcelona, Spain)

Shigeru Yamashita (Ritsumeikan U, Shiga, Japan)

Wei-Ping Zhang (ECNU, Shanghai, China)

Marek Żukowski (U Gdańsk, Poland)

The AQIS'13 conference will focus on quantum information processing, communication and cryptography, an interdisciplinary field bridging quantum physics, computer science, mathematics, and information technologies.

AQIS'13 will be a natural successor of EQIS'01 – EQIS'05 and AQIS'06 – AQIS'12; it will consist of invited talks, selected oral and poster presentations, as well as 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, solid-state, ...)
- Quantum processor and computer design
- Quantum programming languages and semantics

## Steering Committee Chair:

Jozef Gruska (Masaryk U, Brno, Czech Republic)

## Conference Chairs:

Anil Kumar (IISc, Bengaluru)

Rajiah Simon (IMSc, Chennai)

## Conference Co-Chairs:

Guang-Can Guo (USTC, Hefei, China)

Hiroshi Imai (Tokyo U, Japan)

Jaewan Kim (KIAS, Seoul, Korea)

## Invited Speakers: (To be completed)

Girish S Agarwal (Oklahoma State U, USA)

Alain Aspect\* (CNRS, Paris, France)

Nicolas Gisin (U Geneva, Switzerland)

Lov K Grover\* (Bell Labs, New Jersey, USA)

Jian-Wei Pan (USTC, Hefei, China)

Masahide Sasaki (NICT, Tokyo, Japan)

Umesh Vazirani (U California, Berkeley, USA)

\* To be confirmed

## Organizing Committee: (To be completed)

Sibasish Ghosh (IMSc, Chennai) – Chair

Prabha Mandayam (IMSc, Chennai) – Secretary

## Important Dates:

Submission Deadline: June 16, 2013

Notification of Acceptance: July 14, 2013

Final Manuscript Deadline: July 31, 2013

Early Registration Deadline: August 5, 2013

**NEW: ALL SUBMISSIONS MUST FOLLOW THE GUIDELINES TO BE SPECIFIED ON THE AQIS'13 WEBPAGE**

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