

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



Program Committee:

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)
 Sergey Bravyi (IBM, Yorktown Heights, USA)
 Giulio Chiribella (Tsinghua U, Beijing, China)
 Richard Cleve (U Waterloo, Canada) – (Chair)
 A R Usha Devi (Bangalore U, Bengaluru)
 David DiVincenzo (RWTH Aachen, Germany)
 Sibasish Ghosh (IMSc, Chennai)
 Guang-Can Guo (USTC, Hefei, China)
 Masahito Hayashi (Nagoya U, Japan)
 Dipankar Home (Bose Institute, Kolkata)
 Peter Høyer (U Calgary, Canada)
 Kazuo Iwama (Kyoto U, Japan)
 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)
 Hoi-Kwong Lo (U Toronto, Canada)
 Gui-Lu Long (Tsinghua U, Beijing, China)
 T S Mahesh (IISER, Pune)
 Kae Nemoto (NII, Tokyo, Japan)
 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)
 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, a new 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)
 Nicolas Gisin (U Geneva, Switzerland)
 Lov K Grover* (Bell Labs, New Jersey, USA)
 Vadim Makarov (U Waterloo, Canada)
 N Mukunda (Indian Academy of Sciences, Bangalore)
 Jian-Wei Pan (USTC, Hefei, China)
 Masahide Sasaki (NICT, Tokyo, Japan)
 Umesh Vazirani (U California, Berkeley, USA)

* To be confirmed

Tutorials:

Charles Bennett (IBM, Yorktown Heights, USA)
 Guruprasad Kar (ISI, Kolkata)
 Umesh Vazirani (U California, Berkeley, USA)
 Andreas Winter (U Barcelona, Spain)

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

Contact Information:

The Institute of Mathematical Sciences
 CIT Campus, Tharamani
 Chennai 600113, India
 E-mail: aqis13@imsc.res.in
 Tel: +91-44-22543100 Fax: +91-44-22541586

