

# AQIS'15

## 15<sup>th</sup> Asian Quantum Information Science Conference August 24-30, 2015



**Tutorials: August 24, Main conference: August 25–28**  
**Satellite Meeting "Implementation of QIP": August 29-30**  
**Korea Institute for Advanced Study, Seoul, Korea**  
<http://aqis-conf.org/2015/>



Organized by **Korea Institute for Advanced Study (KIAS)**

### Invited Speakers

Scott Aaronson (MIT)  
 Sergey Bravyi (IBM)  
 Kihwan Kim (Tsinghua U)  
 Christian Kurtsiefer (NUS, Singapore)  
 Yasunobu Nakamura (RIKEN and U Tokyo)  
 Jian Wei Pan (USTC, Hefei)  
 Renato Renner (ETH, Zurich)  
 [to be completed]

### Tutorial Speakers

Dagmar Bruss (U Duesseldorf)  
 Daniel Nagaj (Slovak Acad. Sciences)  
 [to be completed]

### Important Dates:

[all 23:59 Anywhere on Earth(AoE) in 2015]

- Submission deadline: June 11
- Acceptance notification: July 11
- Final manuscript deadline: July 25
- Early Registration deadline: July 25
- Tutorials: August 24
- Main conference: August 25-28
- Satellite Meeting: August 29-30



The AQIS'15 conference will focus on quantum information processing, communication and cryptography in the aspect of both physics and information theory. Program consists of invited talks, selected oral and poster presentations as well as tutorials and satellite workshop(s).

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, atomic physics, and solid-state physics, etc)
- Quantum processor and computer design



### Steering Committee Chair:

Jozef Gruska (Masaryk U, Brno)

### Conference Chair:

Jaewan Kim (KIAS, Seoul)

### Organizing Committee:

Jaeyoon Cho (KIAS, Seoul)  
 Jaewan Kim (KIAS, Seoul; Chair)  
 Masaki Nakanishi (Yamagata U)  
 Shigeru Yamashita (Ritsumeikan U; Co-Chair)  
 Sang Jae Yun (KIAS, Seoul)

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### Program committee:

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 Joonwoo Bae (Hanyang U, Seoul)  
 Almut Beige (U Leeds)  
 Charles Bennett (IBM)  
 Sougato Bose (UCL, London)  
 Nicolas Brunner (U Geneva)  
 Harry Bruhman (CWI, Amsterdam)  
 Adan Cabello (U Seville)  
 Giulio Chiribella (Tsinghua U)  
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 Kwek Leong Chuan (NUS, Singapore)  
 Oscar Dahlsten (U Oxford)  
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 Steven Flammia (U Sydney)  
 Sibasish Ghosh (IMSc, Chennai)  
 Nicolas Gisin (U Geneva)  
 Guang-Can Guo (USTC, Hefei)

Aram Harrow (MIT)  
 Beatrix Hiesmayr (U Vienna)  
 Peter Hoyer (U Calgary)  
 Min-Hsiu Hsieh (UTS, Sydney)  
 Hiroshi Imai (U Tokyo)  
 Hyunseok Jeong (Seoul National U)  
**Richard Jozsa (U Cambridge; Chair)**  
 Jaewan Kim (KIAS, Seoul)  
 Masato Koashi (U Tokyo)  
 Francois Le Gall (U Tokyo)  
 Ray-Kuang Lee (NTHU, Taiwan)  
 Hoi-Kwong Lo (U Toronto)  
 Ashley Montanaro (U Bristol)  
 Mio Murao (U Tokyo)  
 Kae Nemoto (NII, Tokyo)  
 Harumichi Nishimura (U Nagoya)  
 Maris Ozols (U Cambridge)

Arun Pati (HCRI, Allahabad)  
 Marcin Pawłowski (U Gdansk)  
 Simon Perdrix (CNRS Loria)  
 Marco Piani (U Strathclyde, Glasgow)  
 Stefano Pirroni (ULB, Brussels)  
 Renato Renner (ETH, Zurich)  
 Masahide Sasaki (NICT, Japan)  
 Yaoyun Shi (U Michigan)  
 Rajiah Simon (IMSc, Chennai)  
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 Akihisa Tomita (Hokkaido U)  
 Jaw Shen Tsai (NEC/RIKEN)  
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