

# AQIS'11

Celebrating 15<sup>th</sup> Anniversary of KIAS

## 11<sup>th</sup> Asian Quantum Information Science Conference

August 23 - 30, 2011

Tutorial: August 23, **Main conference: August 24-27**

Special Programs: August 28, A Satellite Workshop at KIAS, Seoul: August 29-30



Venue: Pukyong National University, Busan, Korea



Organized by Korea Institute for Advanced Study (KIAS)  
Co-organized by Pukyong National University

<http://newton.kias.re.kr/aqis11>



The 11th AQIS conference will be focused on new theoretical and experimental development in quantum information processing, communication and cryptography and on both physics and computing aspects of the field. Program is to consist of invited talks, selected presentations and posters, as well as tutorials and satellite workshops. Areas of coverage include (but are not limited to):

- Quantum computation, programming, algorithms and complexity
- Quantum information theory
- Quantum decoherence fighting concepts, methods and tool
- Quantum cryptography theory and experiments
- Quantum communication experiments and theory
- Quantum technologies (optics, NMR, solid states,...)
- Quantum computers and processors design
- Quantum information processing impacts on other sciences

Social program will include excursion to the exciting Gyeongju that was the capital of Silla (ancient Korea) for 1000 years.

### Important Dates: (all in 2011)

- Submission deadline: June 20
- Acceptance notification: July 17
- Final draft: August 7
- Tutorials: August 23
- Main conference: August 24-27
- A Workshop on Gravity and Quantum Information: August 29-30

### Organizing Committee:

Kyungsik Kim (Chair; Pukyong National University, Busan)  
Tae-Gon Noh (Kyungsung University, Busan)  
Sang Wook Kim (Pusan National University, Busan)  
Han Seb Moon (Pusan National University, Busan)  
Se-Wan Ji (KIAS, Seoul)  
Shigeru Yamashita (Ritsumeikan University, Nara)  
Sheng-Mei Zhao (NUPT, Nanjing)  
Jae-Weon Lee (Jungwon University, Goesan)

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### Steering Committee Chair:

Jozef Gruska (Masaryk University, Brno)

### Conference Chairs:

Jaewan Kim (KIAS, Seoul)  
Hai-Woong Lee (KAIST, Daejeon)

### Keynote Speakers:

Gilles Brassard (University of Montreal)  
Yoshihisa Yamamoto (NII, Tokyo, Stanford University)

### Tutorial Lecturers:

Andris Ambainis (University of Latvia, Riga)  
Jozef Gruska (Masaryk University, Brno)  
Barry Sanders (University of Calgary, Calgary)

### Invited Speakers:

Charles Bennett (IBM, Yorktown Heights)  
Guoping Guo (University of Science and Technology of China, Hefei)  
Wu-Ming Liu (Chinese Academy of Sciences, Beijing)  
Mio Muraio (University of Tokyo, Tokyo)  
Hyunchul Nha (Texas A&M University, Qatar)  
Rajiah Simon (Institute of Mathematical Sciences, Chennai)  
Shigeki Takeuchi (Osaka University, Osaka)  
Andreas Winter (University of Bristol, Bristol) [to be confirmed]

### Program committee:

Andris Ambainis (Co-Chair; University of Latvia, Riga)  
Almut Beige (U Leeds)  
Charles Bennett (IBM)  
Warwick Bowen (U Queensland)  
Giulio Chiribella (PI, Ontario)  
Sang Kyung Choi (KRISS)  
His-Sheng Goan (NTU)  
Andrew Greentree (U Melbourne)  
Guang-Can Guo (USTC, Hefei)  
Kazuo Iwama (Kyoto U)  
Hyunseok Jeong (Seoul Nat'l U)  
Jaewan Kim (Chair; KIAS)  
Kisik Kim (Inha U)  
Yoon Ho Kim (POSTECH)  
Julien Laurat (CNRS, Paris)  
Hai-Woong Lee (KAIST)  
Jinhyoung Lee (Hanyang U)  
Peter van Loock (Max-Planck Inst)  
Norbert Lütkenhaus (U Waterloo)  
Kae Nemoto (NII, Tokyo)  
Hyunchul Nha (Texas A&M U, Qatar)  
Franco Nori (RIKEN/U Michigan)  
Arun Pati (Inst Physics, Bhubaneswar)  
Martin B Plenio (U Ulm)  
Daowen Qiu (Zhongshan U, Guangzhou)  
Martin Roetteler (NEC Labs)  
Barry Sanders (U Calgary)  
Stephanie Wehner (CQT/NUS)  
Andreas Winter (U Bristol)  
Shigeru Yamashita (Ritsumeikan U)  
Bei Zeng (IQC, U Waterloo)  
Shengyu Zhang (CUHK, Hong Kong)

