

# AQIS'19

19th Asian Quantum Information Science Conference

**August 19(Mon)–23(Fri), 2019**

Satellite Meeting August 24(Sat), 2019

| **Venue:** Korea Institute for Advanced Study, Seoul, Korea

<http://www.kias.re.kr>

<http://aqis-conf.org/2019>

The AQIS'19 conference will focus on quantum information processing, communication and cryptography, an interdisciplinary field bridging quantum physics, computer science, mathematics, and information technologies.

AQIS'19 will be a natural successor of EQIS'01-EQIS'05 and AQIS'06-AQIS'18.

AQIS'19 will consist of tutorials, invited talks, selected oral and poster presentations, as well as other activities. Contributions are solicited in (but not limited to) the following areas:

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

## | Tutorials

Nathan Wiebe (University of Washington) — Quantum Machine Learning

Debbie Leung (University of Waterloo) — Embezzlement and Applications

## | Invited Speakers

Giulio Chiribella (Hong Kong University) | Peng Xue (Beijing Computational Science Research Center) | XiaoLiang Qi (Stanford University)

Michelle Simmons (University of New South Wales / CQC2T) | Kihwan Kim (Tsinghua University)

Joe Fitzsimons (Singapore University of Technology and Design) | ChaoYang Lu (University of Science and Technology of China)

Liang Jiang (University of Chicago)

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Troy Lee (UTS)

Chuan-Feng Li (USTC)

Yeong-Cherng Liang (National Cheng Kung U)

Nana Liu (CQT)

Xiongfeng Ma (Tsinghua U)

Aikaterini Mandilara (Nazarbayev U)

Peter McMahon (Cornell/Stanford)

Tomoyuki Morimae (YITP)

Milan Mosonyi (Budapest U of Technology and Economics)

Yasunobu Nakamura (U of Tokyo)

Yoshifumi Nakata (Kyoto University)

Hidetoshi Nishimori (Tokyo Institute of Technology)

Sergei Novikov (Northrop Grumman)

Kevin O'Brien (MIT)

Francis Paraan (U of the Philippines)

Stephen Piddock (U of Bristol)

Ravi Ramanathan (HKU)

Jacqui Romero (U of Queensland)

Barry Sanders (U of Calgary)

Eyob Sete (Rigetti)

Urbasi Sinha (RRI)

Wonmin Son (Sogang University)

Nora Tischler (Griffith U)

Xin Wang (U of Maryland)

Zhihui Wang (NASA)

Paul Warburton (UCL)

Xin Wang (U of Maryland)

Zhihui Wang (NASA)

Paul Warburton (UCL)

Nathan Wiebe (U of Washington)

Andreas Winter (UAB)

Rebing Wu (Tsinghua U)

Guoyong Xiang (USTC)

Yanhong Xiao (Fudan U)

Peng Xue (Beijing CSRC)

Naoki Yamamoto (Keio U)