

AQIS17 Poster List - 4 Sept, Monday

Posters presenters and Titles

Cheng Zedi, Jinshi Xu, Chuanfeng Li and Zhaodi Liu. Degenerate cavity supporting more than 31 Laguerre- Gaussian modes

Qiang Li, Ya Xiao and Jin-Shi Xu. Experimental observation of the optimal form of state independent contextuality under no-signaling conditions

Ya Xiao, Xiang-Jun Ye, Kai Sun, Jin-Shi Xu and Chuan-Feng Li. Demonstration of Multisetting One-Way Einstein-Podolsky-Rosen Steering

[Martin Plesch](#), Marcin Pawlowski and Matej Pivoluska. 1-out-of-2 Oblivious transfer using flawed Bit-string quantum protocol

[Chengjie Zhang](#). Evaluation of entanglement measures by a single observable

Satoshi Iriyama. Entropy production described by the GKSL master equation in two-qubits system and its application

[Aalok Pandya](#). Entropy and Information Functions: A Geometric Perspective

Satoshi Ishizaka. Cryptographic quantum bound on nonlocality

Xueyuan Hu. Quantitative Coherence Witness for Finite Dimensional States

[Wen-Long You](#), Cheng-Jie Zhang, Weihai Ni, Ming Gong and Andrzej M. Oles. Emergent phases in a compass chain with multisite interactions

Zhihao Bian, Jian Li, Xiang Zhan, Jason Twamley and Peng Xue. Experimental implementation of a quantum walk on a circle with single photons

Lei Xiao, Kungkung Wang, Xiang Zhan, Zhihao Bian, Jian Li, Yongsheng Zhang, Peng Xue and Arun Kumar Pati. Experimental Test of Uncertainty Relations for General Unitary Operators

Chandan Datta, Pankaj Agrawal and Sujit Choudhary. Measuring higher-dimensional entanglement

Kunkun Wang, George C. Knee, Xiang Zhan, Zhihao Bian, Jian Li and Peng Xue. Optimal experimental demonstration of error-tolerant quantum witnesses

Peng Xue. Beyond the temporal Tsirelson bound: an experimental test of a Leggett-Garg inequality in a three-level system

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Na Chen, Changhua Zhu and Changxing Pei. Faithful transmission of qubit in a quantum communication network with heterogeneous channels

Marcin Wiesniak. Subadditivity of violation of geometrical Bell inequalities for qudits

Yuichiro Matsuzaki and Simon Benjamin. Quantum metrology with quantum error detection

[Chen-Fu Chiang](#) and Chang-Yu Hsieh. Optimizing Quantum Walk Search on a Reduced Complete Multi- Partite Graph

Xiang Zhan and Peng Xue. Experimental entropic test of quantum contextuality in photonic system

Masahito Hayashi and Michal Hajdusek. Self-guaranteed measurement-based quantum computation

Nan Zhao, Min Li and Nan Chen. Quantum Teleportation of Six-qubit State via An Eight-qubit Cluster State

Chengran Yang, Felix Binder, Varun Narasimhachar and Mile Gu. Matrix product state methods for predictive modelling

Yong-Jun Qian, Juan Wu, Shuang Wang and De-Yong He. Sine-wave gating InGaAs/InP single photon detector with ultralow afterpulse

Joong-Sung Lee, Jeongho Bang, Sunghyuk Hong, Changhyoup Lee, Kang Hee Seol, Jinhyoung Lee and Kwang-Geol Lee. Quantum Learning Speed-up with Classical Training Data

Su-Yong Lee, [Chang-Woo Lee](#), Pawel Kurzynski, Dagomir Kaszlikowski and [Jaewan Kim](#). Duality in entanglement of macroscopic states of light

Seung-Woo Lee and Jaewan Kim. Discrete superposition of coherent states on a circle for quantum key distribution

Kang Hee Seol, Jeongwoo Jae, Joong-Sung Lee, Kwang-Geol Lee and Jinhyoung Lee. Experimental Test of Irreducibility in Coherent States of Light

Seung-Woo Lee, Timothy C. Ralph and Hyunseok Jeong. Attaining fundamental bounds of Bell measurement with linear optics for long distance quantum communication

Guoliang Xu, Daowen Qiu and Xiangfu Zou. Improving the success probability for Shor's factoring algorithm with more available results

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Zhengwei Xie, Daowen Qiu and Guangya Cai. Quantum algorithms on Walsh transform and Hamming distance for Boolean functions

David Arvidsson-Shukur, Axel Gottfries and Crispin Barnes. Information Measure of Counterfactuality in Communication Protocols

Min Namkung and Younghun Kwon. Sequential state discrimination for three linearly independent pure qutrits

Guangya Cai and [Daowen Qiu](#). Optimal Separation in Exact Query Complexities for Simon's Problem

Kuo Chung-Hsuan and Yang Ciann-Dong. Evaluating Qubit Control Performance by Indices of Quantum Entanglement

Anna de Rosier, Jacek Gruca, Tamas Vertesi, Fernando Parisio and Wieslaw Laskowski. Multipartite nonlocality and random measurements

Yun Shang and Yu Wang. State transfer by quantum walks with two coins

Haiwei Wei, Changhua Zhu and Changxing Pei. A High-dimensional Quantum Key Distribution Scheme based on single photons in Temporal-Polarization mode

Chuanqi Liu, Changhua Zhu and Changxing Pei. Multi-party Measurement-Device-Independent Quantum Key Distribution based on cluster states

Wei Zhang and [Daowen Qiu](#). Single-state semi-quantum key distribution protocol and its security proof

Tanjung Krisnanda, Margherita Zuppardo, Mauro Paternostro and Tomasz Paterek. Revealing non-classicality of inaccessible objects

Yuta Nishino, Souichi Takahira and Tsuyoshi Usuda. On annealing schedule for classical optimal decoding by adiabatic quantum computation

Liming Zhao, Carlos A Perez Delgado, [Simon Benjamin](#) and Joseph Fitzsimons. A measurement driven analog of adiabatic quantum computation for frustration-free Hamiltonians

Chi Huan Nguyen, Adrian Utama, Matthias Steiner and Christian Kurtsiefer. Single atoms coupled to a near-concentric cavity

Andrew Garner, [Liu Qing](#), Jayne Thompson, Vlatko Vedral and Mile Gu. Unbounded memory advantage in stochastic simulation using quantum mechanics

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Tiancheng Wang, Kenshiro Kita and Tsuyoshi Usuda. Channel capacity of quantum channel with beam wandering

AQIS17 Poster List - 5 Sept, Tuesday

Posters presenters and Titles

Kuan Zhang, Jiajun Ma, Xiang Zhang, Jayne Thompson, Vlatko Vedral, Kihwan Kim and Mile Gu. Effects of the UNOT gate on classical and quantum correlations

Anurag Anshu, Rahul Jain and Naqeeb Ahmad Warsi. One-shot measurement compression with quantum side information using shared randomness

Yongsoo Hwang and Byung-Soo Choi. On the logical system mapping based on modular and non-modular quantum assembly codes

Yongsoo Hwang, Taewan Kim, Chungheon Baek and Byung-Soo Choi. A quantum computing software platform @ ETRI

Mohapatra Amit Kumar and [Subramanian Balakrishnan](#). A scheme to reduce the number of entangled qubits in quantum wireless sensor networks

Naoya Matsumoto, Akihito Kadoya, Souichi Takahira, Yuta Nishino and Tsuyoshi Usuda. Origin of gap between minimum error probability and its simple approximation

Koon Tong Goh, Jędrzej Kaniewski, Elie Wolfe, Tamas Vertesi, Yu Cai, Yeong-Cherng Liang and [Valerio Scarani](#). Geometry of the quantum set and its connection with self-testing

Muthuganesan Rajendran and Sankaranarayanan R. Fidelity Based Measurement Induced Nonlocality

Tomek Paterek. Coherent chemical kinetics: quantum info meets chemistry

Yuki Takeuchi, Keisuke Fujii, Tomoyuki Morimae and [Nobuyuki Imoto](#). Secure quantum cloud computing with fault-tolerant verification

Shojun Nakayama, Akihito Soeda and Mio Muraō. Adiabatic quantum computation and Grover search applied to higher-order quantum operations

Souichi Takahira, Asuka Ohashi, Tomohiro Sogabe and Tsuyoshi Usuda. Amplitude Estimation based Algorithm for Circulant Linear Systems

Yicheng Shi, Janet Lim Zheng Jie, Hou Shun Poh, Peng Kian Tan and Christian Kurtsiefer. Spectral Measurement of Breakdown Flashes in InGaAs Avalanche Photodiodes

Jyotirmoy Basak, Bappaditya Ghosh, Arpita Maitra and [Goutam Paul](#). Device Independent Quantum Private Query with Finite Number of Entangled Qubits

Soma Esaki, Masato Onoda and Shigeru Yamashita. An Ancilla Reduction Technique for Quantum Circuits Converted from NAND-based Circuits

AQIS17 Poster List - 5 Sept, Tuesday

Posters presenters and Titles

Yingkai Ouyang, Si-Hui Tan, Liming Zhao and [Joseph Fitzsimons](#). Computing on quantum shared secrets

Chung-Yun Hsieh and [Ray-Kuang Lee](#). Work extraction and fully entangled fraction

Mr Rajendran and [Sankara Narayanan](#). Nonlocal Correlation and Entanglement in Two-spin System

Jingwen Ding and Shigeru Yamashita. Synthesis of Physical-Limitation-Aware Optimal Quantum Circuits in 2-D Architecture

Utkarsh Mishra, Debraj Rakshit and Prabhu Ramappa. Survival of time-evolved quantum correlations depending on whether quenching is across a critical point in an XY spin chain

Aleksey Fedorov. Efficient key distillation for industrial quantum key distribution systems

Shuquan Ma and Changhua Zhu. Measurement-Device-Independent Quantum Group Key Agreement

Mathieu Lauriere, [Tim Byrnes](#) and [Chandrashekar Radhakrishnan](#). Conditional Quantum Discord

Yu Cai, Yuqian Zhou, Jean-Daniel Bancal, Fei Gao and Valerio Scarani. Many-box locality

Vladimir Zavodilenko, Anton Losev, Alexandr Miller, Vladimir Kurochkin and [Yury Kurochkin](#). InGaAs/InP avalanche photodiodes based single photon detectors for quantum key distribution over more than 100 km optical fiber

[Yury Kurochkin](#), Evgeny Kiktenko, [Nikolay Pozhar](#), [Maxim Anufriev](#), [Anton Trushechkin](#), [Alan Kanapin](#), Vladimir Kurochkin, Alexander Lvovsky and Aleksey Fedorov. Quantum-secure blockchain application for urban QKD network

Xian Shi. Generalized monogamy relations for multi-qubits systems

Mehul Malik, Matej Pivoluska and Marcus Huber. On Layered Quantum Key Distribution

Yu Wang and Yun Shang. Uniquely determination of an arbitrary input pure state on any dimension with rank-1 POVM

Xinhui Li, Fei Gao and Yukun Wang. Analytic self-testing bound of the singlet for binary measurements

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Chang Yu Hsieh and [Chen-Fu Chiang](#). Resonant transition-based quantum computation

Hongting Song and Yuanyuan Mao. Quantum Non-Markovianity from Information Perspective

Pei-Sheng Lin, [Denis Rosset](#), Yanbao Zhang, Jean-Daniel Bancal and Yeong-Cherng Liang. Taming finite statistics for device-independent quantum information

Hyungseok Chang, Hidefumi Hiraishi and Hiroshi Imai. Comparing Simulated Annealing with Simulated Quantum Annealing on Max-cut and Other NP-Hard Problems

Michele Dall'Arno, Sarah Brandsen, Francesco Buscemi and [Vlatko Vedral](#). Device-Independent Tests of Quantum States, Channels, and Measurements

Michal Studzinski, [Sergii Strelchuk](#), Marek Mozrzykas and Michal Horodecki. Optimal Port-based Teleportation in Arbitrary Dimension

Masato Onoda and Shigeru Yamashita. Quantum Circuit Design by Using ESOP Minimization

Kentaro Haneda and Shigeru Yamashita. Locating Loops for TCSC Considering Bridge Transformation

Anuradha Mahasinghe and Jingbo Wang. Quantum Toeplitz implementation and its applications

Liang Min, Akihisa Tomita and Atsushi Okamoto. Decoy State BBM92 Quantum Key Distribution Protocol with Multi-photon-event Rejection