

23-June-2019 (Grand Hotel)	
14:00-17:00	Registration & Reception (Hall)
24-June-2019 (Grand Hotel)	
9:00-9:45	Registration (Hall)
9:45-10:00	Opening Welcome and Remarks (International Conference Hall) Dapeng Yu, Southern University of Science and Technology, China
10:00-10:30	Session I Chair: Man-Hong Yung (SUSTech)
10:00-10:30	Genuine 12-Qubit Entanglement on a Superconducting Quantum Processor Xiaobo Zhu, University of Science and Technology of China, China
10:30-11:00	Group Photo & Tea Break
11:00-12:00	Session II Chair: Ai-qun Liu (NTU)
11:00-11:30	Experimental quantum error correction with binomial bosonic codes Luyan Sun, Tsinghua University, China
11:30-12:00	Tuneable transmon interactions for novel many-body quantum simulations Nathan Langford, University of Technology Sydney, Sydney
12:00-12:30	Nonlinear optical materials with micro/nano-structures for quantum entanglement Ming Yang, Nanjing University, China
12:30-14:00	Lunch
14:00-16:00	Session III Chair: L. C. Kwek (NUS)
14:00-14:30	Quantum Engineering utilizing hybridization and its applications W. J. Munro, NTT Basic Research Laboratories, Japan
14:30-15:00	Scalable global gate on arbitrary ion-qubits Kihwan Kim, Tsinghua University, China
15:00-15:30	Quantum engineering based on trapped $40\text{Ca}^+$ ions Ping-Xing Chen, University of Defense Technology, China
15:30-16:00	Tea Break, Huawei HiQ Show (optional)

16:00-17:30	Session IV Chair: Kihwan Kim (THU)
16:00-16:30	Precision magnetic measurement in spin-exchange optically pumping rubidium- 129Xe system Xinhua Peng, University of Science and Technology of Chinae, China
16:30-17:00	Quantum simulation and quantum Zeno effect in a dissipative Floquet system of ultracold atoms Le Luo, Sun Yat-sen University, China
17:00-17:30	Trapping a heralded single-photon in an atomic ensemble Yoon-Ho Kim, Pohang University of Science and Technology (POSTECH), Korea
17:30-18:00	Experimental Implementation of Efficient Quantum Pseudo randomness on a 12- spin System. Dawei Lu, Southern University of Science and Technology, China

25-June-2019 (Grand Hotel)	
9:00-11:00	Session I Chair: Sen Yang (CUHK)
9:00-9:30	Quantum simulation in superconducting quantum circuits Heng Fan, Institute of Physics CAS, China
9:30-10:00	Simulation highly tunable topological bands using superconducting quantum circuits Yang Yu, Nanjing University, China
10:00-10:30	Experimental realization of nonadiabatic shortcut to non-Abelian geometric gates. Yuanzhen Chen, Southern University of Science and Technology, China
10:30-11:00	Tea Break
11:00-12:00	Session II Chair: Yuanzhen Chen (SUSTech)
11:00-11:30	Quantum light source engineering towards “quantum supremacy” Chao-Yang Lu, University of Science and Technology of China, China
11:30-12:00	Resource-efficient and fault-tolerant quantum information processing beyond single-photon qubits Hyunseok Jeong, Seoul National University, Korea

12:00-12:30	Quantum sensing of many body effects via nitrogen vacancy centers in diamond Sen Yang, The Chinese University of Hong Kong, China
12:30-14:00	Lunch
14:00-16:00	Session III Chair: Jin-shi Xu (USTC)
14:00-14:30	Topological Photonics Alexander Szameit, University of Rostock, Germany
14:30-15:00	3D photonic quantum chip and analog quantum computing Xian-Min Jin, Shanghai Jiao Tong University, China
15:00-15:30	Numerical and uncertainty ranges of quantum states Li-jian Zhang, Nanjing University, China
15:30-16:00	Tea Break
16:00-17:30	Session IV Chair: Scott Parkins (UoA)
16:00-16:30	Parity-time-symmetric quantum walks with single photons Peng Xue, Beijing Computational Science Research Center, China
16:30-17:00	High dimensional and multi-mode optical quantum simulation Jin-Shi Xu, University of Science and Technology of China, China
17:00-17:30	Integrated quantum photonics for the simulation of molecular dynamics. Stefano Paesani, University of Bristol, UK
17:30-18:00	Narrow-band source of polarization-entangled photons with counter propagating domain engineering Dongjie guo, Nanjing University, China

26-June-2019 (Grand Hotel)	
9:00-11:00	Session I Chair: Jingyun Fan (SUSTech)
9:00-9:30	Spinor Atom(s) in an Optical Nanocavity: Generation of n-Photon Pulses and Spin-Entangled States Scott Parkins, University of Auckland, New Zealand
9:30-10:00	Efficient quantum memory for single-photon polarization qubits Hui Yan, South China Normal University, China

10:00-10:30	Entanglement of three quantum memories via interference of three single photons Sheng-Jun Yang, Southern University of Science and Technology, China
10:30-11:00	Tea Break
11:00-12:00	Session II Chair: Hui Yan (SCNU)
11:00-11:30	On-Chip of Continuous Variable Quantum Key Distribution (CV-QKD) for Quantum Communication System Ai-qun Liu, Nanyang Technological University, Singapore
11:30-12:00	Distribution of Einstein-Podolsky-Rosen steering Xiao-long Su, Shanxi University, China
12:00-12:30	Quantifying Measurement Incompatibility via Quantum Metrology Jingyun Fan, Southern University of Science and Technology, China
12:00-14:00	Lunch
14:00-16:00	Session III Chair: Xiao-long Su (SXU)
14:00-14:30	Non-Abelian adiabatic geometric transformations in a cold Strontium gas Christian Miniatura, National University of Singapore, Singapore
14:30-15:00	Searching for bosonic topological excitations in ultracold atoms Zhi-Fang Xu, Southern University of Science and Technology, China
15:00-15:30	Time-optimal Control of independent Spin-1/2 Systems under Simultaneous Control. Ji Bian, University of Science and Technology of China, China
15:30-16:00	Tea Break
16:00-17:00	Session IV Chair: Zhi-Fang Xu (SUSTech)
16:00-16:30	Quantum Synchronization Leong Chuan Kwek, National University of Singapore, Singapore
16:30-17:00	A Quantum Interferometer for quantum gravity studies Marco Genovese, Istituto Nazionale di Ricerca Metrologica (INRIM), Italy