

NP3: Quantum Devices, Systems, Networking and Computing	
Location: Conference Room 207, 2F	
November 2, 2026	
Presider: Xiaomin Hu, University of Science and Technology of China Session: Integrated Photonics for Quantum Communications	
14:00-14:30	Quantum photonic frequency processing via electro-optic modulation (Invited) Yanxiao Gong Nanjing University, China
14:30-15:00	Integrated Photonics for Quantum Communication Networks (Invited) Yun Zheng Peking University, China
15:00-15:15	Thin-Film SiN Moiré Photonic Molecule for Broadband Quantum Microcomb (Oral) Shuai Liu
15:15-15:30	Chip-to-Chip Polarization Entanglement Distribution on a Silicon Photonic Platform (Oral) Xu Yan National Information Optoelectronics Innovation Center, China
15:30-16:00	Coffee Break
Presider: Yanxiao Gong, Nanjing University Session: High-dimensional quantum entanglement	
16:00-16:30	High-Dimensional Multiphoton Nonlocality and Its Metasurface-Based Implementation (Invited) Xiaomin Hu USTC, China
16:30-17:00	High-dimensional quantum entanglement and chip-scale quantum interconnects (Invited) Xiang Cheng
17:00-17:15	Quantum Two-Way Time Transfer with Adaptive Algorithmic Dispersion Compensation (Oral) Zhi-Yang Liu University of Electronic Science and Technology of China, China
17:15-17:30	Machine Learning-Based Parameter Optimization of a Quantum Key Distribution System Under Limited Experimental Data (Oral) Hajar Bennouri Trinity college dublin, Ireland

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Presider: Jianwei Tang, Huazhong University of Science and Technology Session: Quantum memory	

08:30-08:45	Efficient integrated quantum memory for light (Oral) Ruo-Ran Meng USTC, China
08:45-09:00	Properties of 167Er³⁺:LiNbO₃ photonic quantum memory (Oral) Hao-Ze Zhang University of Electronic Science and Technology of China, China
09:00-09:30	Metropolitan-scale Multiplexed Quantum Repeaters: Bell Non-locality and Applications (Invited) Zong-Quan Zhou University of Science and Technology of China, China
09:30-10:00	Integrated quantum memory based on bound states in the continuum (Invited) Yuhui Chen Beijing Institute of Technology, China
10:00-10:30	Coffee Break
Presider: Fang-Xiang Wang, University of Science and Technology of China, China Session: Quantum Light Source	
10:30-11:00	Cavity-Enhanced Semiconductor Quantum Dot Quantum Light Source (Invited) Bang Wu Beijing Academy of Quantum Information Sciences, China
11:00-11:30	Indistinguishable single-molecule single photon sources (Invited) Jianwei Tang Huazhong University of Science and Technology, China
11:30-11:45	Experimental Demonstration of Quantum Key Distribution and Classical Communications Co-propagation over Diverse 100 km+ Fibers (Oral) Weiwen Kong China Telecom Research Institute, China
Presider: Xiang Cheng, Huazhong University of Science and Technology Session: Quantum Communication over Fiber Channels	
13:30-14:00	Microcomb-driven large-scale fully-connected quantum network (Invited) Fang-Xiang Wang University of Science and Technology of China, China
14:00-14:30	Deterministic entanglement-assisted quantum communication over fiber channels (Invited) Siyu Ren State Key Laboratory of Quantum Optics Technologies and Devices, Institute of Opto-Electronics, Shanxi University, China
14:30-15:00	Experimental distributed-phase-reference quantum key distribution with information theoretic security (Invited) Xiaoyu Cao Nanjing University, China
15:00-15:15	First Real-Time Bidirectional Same-Wavelength CV-QKD at 2×100 kbps over an 11.5 dB-loss Hollow-Core Fiber Link (Oral) Yuqian Zhang Department of Fundamental Network Technology, China Mobile Research Institute, China

15:15-15:30	Comprehensive Study on CV/DV-QKD Co-propagation with Deployed C/C+L DWDM Optical Transport Network (Oral) Dongchen Zhang Beijing Zhongxing Guangtai Software Company Limited, China
15:30-17:30	Coffee Break & Poster Session