

Poster List

- P1. Juan Aristizabal-Zuluaga
Entanglement generation between two distinct Bose-Einstein condensates
- P2. Namrata Shukla, Naeem Akhtar, Barry C. Sanders
Quantum tetrachotomous states: Superposition of four coherent states on a line in phase space
- P3. Tim Byrnes
Adiabatic Quantum Computation with atomic ensembles
- P4. Zhenyu Cai
Mitigating Coherent Noise Using Pauli Conjugation
- P5. Bo Cao
High Efficiency Ultra-Broadband Frequency Entanglement Generation with Chirped PPSLT Ridge Waveguides
- P6. Wei Chang
Long-distance entanglement between a multiplexed quantum memory and a telecom photon
- P7. Manish Chaudhary
Split-Squeezed Bose Einstein Condensates and Applications
- P8. Tian Chen
Topological edge states in Hermitian and non-Hermitian quantum walks
- P9. Yao Chen
One particle measurement of the antiproton magnetic moments with Penning trap
- P10. Yao Chen
A design of a micro-machined atomic magnetometer for bio-magnetic field application
- P11. Xi Chen
Shortcuts to Adiabaticity
- P12. Wentao Chen
Phonon Tomography with Ancilla Modes in Trapped Ion System
- P13. Yu Chen
Zero-error quantum hypothesis testing in finite time with quantum error correction
- P14. Fu-Sheng Chen
Feedback control in superconducting quantum circuits
- P15. Ming-Cheng Chen, Chao-Yang Lu, Jian-Wei Pan
Simulating Random Quantum Circuit by Quantum Teleportation
- P16. Hongzhen Chen
Ultimate precision for multi-parameter quantum magnetometry with entangled probe states
- P17. Wenlan Chen
Quantum computer based on high-cooperativity optical cavity and neutral atomic array
- P18. Jian Cui
Optimal control of quantum simulator: creating 20-qubit Greenberger-Horne-Zeilinger states on Rydberg quantum simulator

- P19. Guodong Cui
A Doubly Coupled Atomic Ensemble-Cavity QED System for Quantum Processing and Networking
- P20. Xiu-Hao Deng
Geometric approach to dynamically-corrected single qubit gate for superconducting qubits
- P21. Yu-Hao Deng, Da-Wei Wang, J. P. Dowling, Sven Höfling, Chao-Yang Lu, Marlan O. Scully, and Jian-Wei Pan
Quantum Interference between Light Sources Separated by 150 Million Kilometers
- P22. Ming-Xin Dong
Temporal Wheeler's Delayed-Choice Experiment based on Cold Atomic Quantum Memory
- P23. Chen Dong
Plug-and-Play Measurement Device Independent Quantum Key Distribution with Modulating Retro-Reflectors
- P24. Xiao-Tian Fang
Surpassing the rate-transmittance linear bound of quantum key distribution
- P25. Eden Figueroa
A Quantum network using Room-temperature light-matter interfaces
- P26. Zi-Yong Ge
Propagation and Localization of Collective Excitations on a Superconducting Ladder Circuit
- P27. Yun-Hong Gong, Kui-Xing Yang, Yang Li, Hui-Nan Wu, Hai-Lin Yong, Yuan Cao, Ji-Gang Ren, Cheng-Zhi Peng
Background noise measurement for 4-hour satellite-to-ground quantum communication
- P28. Xiaomin Guo Yanqiang Guo
Parallel real-time quantum random number generator
- P29. Banghong Guo
Quantum Security Communication and Time-Frequency Network in Guangzhou-Foshan-Zhaoqing (GBA)
- P30. Yingying Han
Time-Domain Grating with a Periodically Driven Qutrit
- P31. Anqi Huang
Source attacks in the era of measurement-device-independent quantum key distribution
- P32. Ebubechukwu Ilo-Okeke
Entanglement-based synchronization of non-synchronized clocks
- P33. Jiawei Ji
Towards the realization of a solid-state quantum network
- P34. Xinhe Jiang
Quantum teleportation of surface plasmon polaritons
- P35. Xian-Min Jin
3D photonic quantum chip and analog quantum computing

- P36. Jietai Jing
Orbital-Angular-Momentum Multiplexed Continuous-Variable Entanglement from Four-Wave Mixing in Hot Atomic Vapor
- P37. You-Quan Li
Quantum Severalty/Supremacy: Depress and Counter-Depress Effects
- P38. Chunyan Li
Asymmetrical hyperentanglement concentration for entanglement of polarization and orbital angular momentum
- P39. Feng Li
Dynamics of quantum vortex in optically-induced photonic graphene
- P40. Chang Li
Quantum Communication between Multiplexed Atomic Quantum Memories
- P41. Xi Li
Ultracold 6Li and 164Dy Atoms
- P42. Chang Li
Quantum Communication between Multiplexed Atomic Quantum Memories
- P43. Jian Lin, Jue Nan, Yuchen Luo, Xing-Can Yao, and Xiaopeng Li
Quantum Adiabatic Doping with Incommensurate Optical Lattices
- P44. Gang-Qin Liu
Magnetic Sensing inside a Diamond Anvil Cell via Nitrogen-Vacancy Center Spins
- P45. Shilong Liu
A high-dimensional quantum frequency converter
- P46. Shilong Liu
Coherent manipulation of a three-dimensional maximally entangled state
- P47. Xiong Liu
Observation and applications of spin Hall effect of light
- P48. Yong Liu
Exploring the frontier of quantum supremacy
- P49. Feng Liu
The development of optically active gate defined quantum dot
- P50. Ya-Xiong Liu, Bo Zhao
Towards the computation of atom exchange process in ultracold weakly bound molecules
- P51. Muzaffar Lone
On the role of the measurement apparatus in quantum measurements
- P52. Liangliang Lu
Three-dimensional entanglement on a silicon chip
- P53. Yao Lu
Global entangling gates on arbitrary ion qubits
- P54. Yi-Han Luo, Han-Sen Zhong, Manuel Erhard, Xi-Lin Wang, Chao-Yang Lu, Anton Zeilinger, and Jian-Wei Pan
Quantum Teleportation in High Dimensions
- P55. Qin Luo
High-precision atom interferometry gravity measurement

- P56. Lan Luo
Simultaneously precise estimations of phase and amplitude variations with weak measurements
- P57. Wenchao Ma
Generalized Eberhard Inequality
- P58. Ying-Qiu Mao, Yi-Zheng Zhen, Hui Liu, Mi Zou, Qi-Jie Tang, Jie Zhang, Jian Wang, Hao Liang, Weijun Zhang, Hao Li, Lixing You, Zhen Wang, Li Li, Nai-Le Liu, Kai Chen, Teng-Yun Chen, and Jian-Wei Pan
An Experimentally Verified Approach to non-Entanglement-Breaking Channel Certification
- P59. Akhtar Munir, Barry C. Sanders
Creating collisions between electrons in an atom or planets in a solar system
- P60. Chen Qian, Ya-Dong Wu, Yunlong Xiao, Barry Sanders
Uncertainty game in non-inertial frames
- P61. Yifan Qiao
Multi-phonon interactions between nitrogen-vacancy centers and nanomechanical resonators
- P62. Kamran Rehan
Experimental Investigation of Heisenberg Uncertainty Lower Bounds for Incompatible Observables at Single-Spin Level
- P63. Meizhen Ren
Optimization of the classical interference visibility of AMZI based on PLC technology
- P64. Ning Ru
Atomic microwave magnetic field detection and its application
- P65. Steven Sagona-Stophel
Investigating nonlocal effective nonlinearities in room-temperature atomic system towards nondemolition measurement
- P66. Yun Shang
Experimental realization of quantum communication protocols by quantum walks with two coins
- P67. Peixin Shen
Spin Texture and Entanglement in Topological Spin Josephson Junctions
- P68. Yuan Tao
Exploring topological matter in optical lattices with quantum gas microscope
- P69. Zaman Tekin
Quantum thermodynamics for qubits at non-equilibrium
- P70. Kunpeng Wang
Coherent production of a single molecule from two ultracold atoms
- P71. Xin Wang
Unconventional cavity optomechanics and its application in chiral acoustic control
- P72. Kai Wang
Quantum wave-particle superposition in a delayed-choice experiment
- P73. Bolong Wang
Generation of multiparticle entangled states in a NV-nanotube hybrid system

- P74. Boxiang Wang
Light transmission in dense cold atomic media with short-range correlations
- P75. Banghai Wang
Entangled states in the role of witnesses
- P76. Kunkun Wang
Dynamic topological phenomena in parity-time-symmetric quench dynamics
- P77. Xiao-Qiong Wang, Yu-Xuan Wang, De-Zhi Zhu
Degenerate Bose Gases near a d-wave Shape Resonance
- P78. Xi-Lin Wang, Xin-Dong Cai, Zu-En Su, Ming-Cheng Chen, Dian Wu, Li Li, Nai-Le Liu, Chao-Yang Lu, and Jian-Wei Pan
Quantum teleportation of multiple degrees of freedom of a single photon
- P79. Kejin Wei, Wei Li, Hao Tan, Yang Li, Hao Min, Wei-Jun Zhang, Li-Xing You, Xiao Jiang, Teng-Yun Chen, Sheng-Kai Liao, Cheng-Zhi Peng, Feihu Xu, Jian-Wei Pan
High-speed measurement-device-independent quantum key distribution with integrated silicon photonics
- P80. Haiteng Wu
Magnetic Field Sensing with Rydberg Atoms
- P81. Jizhou Wu, Hubert de Guise, Barry C. Sanders
Coincidence landscapes for polarized bosons
- P82. Lijun Xia
Three-dimensional entanglement on a silicon chip
- P83. Xiu-Xiu Xia
LED-based fiber quantum key distribution: toward low-cost applications
- P84. Zhiguang Xia
Generation of miniaturized frequency entangled source in telecommunication band based on type-II periodically poled lithium niobate waveguide
- P85. Yu Xiang
Distribution of multipartite Einstein-Podolsky-Rosen steering in Gaussian systems
- P86. Lei Xiao
Observation of critical phenomena in parity-time-symmetric quantum dynamics
- P87. Yu-Bo Xie, Yu-Bo Xie, Hao Sun, Ming-Hao Jiang, Yu-Ping Liu, Yu-Hui Chen, Wei Liu, Xiaomu Wang, C. Z. Ning, Xiao-Song Ma
Integrated quantum memory based on rare-earth ion nanowire
- P88. Kebiao Xu
Quantum Adiabatic Control and its Physical Realization
- P89. Shu Xu, Xiangxiang Sun, Jizhou Wu, Wei-Wei Zhang, Nigum Arshed, Barry C. Sanders
Quantum walk on a chimera graph
- P90. Yiquan Yang
Stimulated emission tomography for frequency non-degenerate entangled photon source
- P91. Yu Yang
Multi-parameter Hong-Ou-Mandel zero-coincidence point
- P92. Yang-Sen Ye
Propagation and Localization of Collective Excitations on a 24-Qubit Superconducting Processor

- P93. Chang-Rui Yi
Observing topological charges and dynamical bulk-surface correspondence with ultracold atoms
- P94. Xufei Yin
Photonic realization of quantum resetting
- P95. Chao Yu, Jiawei Qiu, Haiyun Xia, Xiankang Dou, Jun Zhang, and Jian-Wei Pan
Compact and lightweight 1.5 μm lidar with a multi-mode fiber coupling free-running InGaAs/InP single-photon detector
- P96. Yong Yu
Entanglement of two nearby quantum memories via metropolitan-scale fibers
- P97. Haidong Yuan
Quantum control in quantum metrology
- P98. Ye-Xiong Zeng
The study of interference effect in a globally coupled quantum network
- P99. Zhen-Tao Zhang
Effects of decoherence on diabatic errors in Majorana braiding
- P100. Dongdong Zhang
Long-term trapping of Stark-decelerated molecules
- P101. Qi Zhang
A multifunctional quantum phase gate based on gap-plasmon
- P102. Shuaining Zhang
Error-Mitigated Quantum Gates Exceeding Physical Fidelities in a Trapped-Ion System
- P103. Wengang Zhang
Towards a quantum register with solid-state spins in diamond
- P104. Junbin Zhang
An FPGA-Based Hardware Platform for the Control and readout of Spin-Based Quantum Systems
- P105. Wenhao Zhang
Experimental Realization of Robust Self-Testing of Bell State Measurements
- P106. Yajuan Zhao
Direct laser cooling to BEC in 85Rb
- P107. Shuai Zhao
Higher Amounts of Loophole-free Bell Violation using a Heralded Entangled Source
- P108. Yi-Zheng Zhen
The non-entanglement-breaking channel witness in various practical scenarios
- P109. Han-Sen Zhong, Yuan Li, Wei Li, Chao-Yang Lu, Jian-Wei Pan
12-photon entanglement and boson sampling with optimal SPDC entangled-photon pair source
- P110. Xiang Zhou
Bounding Quantum Correlation with No Disturbance Without Uncertain Criterion
- P111. You Zhou
Detecting multipartite entanglement structure with minimal resources
- P112. Qing-Ling Zhu
Fast High-fidelity Readout of Superconducting Qubits

- P113. Yukun Wang
Practical quantum key distribution with non-phase-randomized coherent states
- P114. Yufeng Wu
Expected performance of quantum repeaters with imperfect quantum devices in the near-term
- P115. Xuan Han, Hai-Lin Yong, Ping Xu, Kui-Xing Yang, Shuang-Lin Li, Wei-Yang Wang, Hua-Jian Xue, Feng-Zhi Li, Ji-Gang Ren, Cheng-Zhi Peng, Jian-Wei Pan
Polarization design for ground-to-satellite quantum entanglement distribution
- P116. Xiuying Chang
Experiment scheme for sensing electron instability in graphite using single NV centre in diamond
- P117. Xiao Jiang, Yu-Meng Yang, Wen-Chao Ji, and Yue-Fei Wang
Ultra-low noise and high bandwidth current source for cold atom experiments
- P118. Qi-Chao Sun, Yang-Fan Jiang, Bing Bai, Weijun Zhang, Hao Li, Xiao Jiang, Jun Zhang, Lixing You, Xianfeng Chen, Zhen Wang, Qiang Zhang, Jingyun Fan & JianWei Pan
Experimental demonstration of nonlocality with truly independent sources and strict locality constraints