

Special Session: International Year of Quantum Science and Technology

Date: October 21

chair	Qingyu Cai	
14:00-14:25	Yanhong Xiao Fudan University	Steady state spin squeezing and continuous quantum-enhanced metrology
14:25-14:50	Yoon-Ho Kim POSTECH	Toward Quantum-Inspired Classical Optical Technologies
14:50-15:15	Yong Xu Tsinghua University	Deep learning density functional theory and beyond
15:15-15:30	Hao Song ITP, CAS	Topological theory of high-efficiency quantum low-density parity-check codes
15:30-15:50	Break	
chair	Ling-Na Wu	
15:50-16:15	André Eckardt TU Berlin	Non-trivial exchange statistics in one dimension: The anyon-Hubbard model and beyond
16:15-16:40	Yong Xu Tsinghua University	Disorder-induced average topological phase in Rydberg atom array
16:40-17:05	Kenji Toyoda Osaka University	Quantum propagation of a vibrational excitation in a harmonically confined trapped-ion crystal
17:05-17:20	Shuo Yang Tsinghua University	A New Framework for Quantum Phases in Open Systems: Steady State of Imaginary-Time Lindbladian Evolution
17:20-17:35	Shusheng Tan National University of Defense Technology	Wave-Particle Mechanics: The Quantum Theory for Complete Description of Microscopic Systems