

July 13th, 2024			
Time	Session Details	Speaker(s)	Chair
09:00-10:00	Theoretical study of bilayer and trilayer nickelate superconductors	Daoxin Yao (Sun Yat-sen University)	Jize Zhao (Lanzhou University)
10:00-10:20	Tea Break and Group Photo (Xinglin Building, Room 203)		
10:20-11:00	Theory of Nickelate Superconductors and New Route to High-Temperature Superconductivity	Yifeng Yang (Institute of Physics, Chinese Academy of Sciences)	Gang Li (ShanghaiTech University)
11:00-11:40	Gauge symmetry of excited states in projected entangled-pair state simulations	Jiawei Mei (Southern University of Science and Technology)	
11:40-12:00	Pattern language of quantum many-body systems	Yuntong Yang (Lanzhou University)	
12:00-13:30	Lunch Break (3rd Floor, Xinzhu Yuan)		
14:30-15:10	Correlation and competing orders in low-dimensional materials	Gang Li (ShanghaiTech University)	Daoxin Yao (Sun Yat-sen University)
15:10-15:50	Light polarons with electron-phonon coupling	Chao Zhang (Anhui Normal University)	
15:50-16:00	Tea Break (Xinglin Building, Room 203)		
16:00-16:40	Adaptive Trotterization algorithm for digital quantum simulation	Hongzheng Zhao (Peking University)	Jiawei Mei (Southern University of Science and Technology)
16:40-17:20	Spin-Dependent Exotic Interaction	Lei Cong (Helmholtz Institute Mainz)	
17:20-18:00	Intrinsic high-temperature ferroelectricity, superferroelasticity, and deep-ultraviolet nonlinear optical response of GaOCl monolayer	Yunhua Wang (Lanzhou University)	
18:10	Banquet (3rd Floor, Xinzhu Yuan)		
July 14th, 2024			
Time	Session Details	Speaker(s)	Chair
09:00-09:40	Realization and Detection of Emergent Supersymmetry in Rydberg Atom Arrays	Chengshu Li (Tsinghua University)	Chao Zhang (Anhui Normal University)
09:40-10:20	Condensate Fraction Scaling and Berezinskii-Kosterlitz-Thouless Transition	Yuanyao He (Northwest University)	
10:20-10:40	Tea Break (Xinglin Building, Room 203)		
10:40-11:20	Probing phase transitions with correlations in configuration space	Chen Cheng (Lanzhou University)	Yuanyao He (Northwest University)
11:20-11:45	Ising antiferromagnetic phase transition and thermodynamics of correlated fermions in spin-dependent optical lattice	Zhuotao Xie (Northwest University)	
12:00-13:30	Lunch Break (3rd Floor, Xinzhu Yuan)		
14:30-18:00	Free Discussion Session	All Speakers	Honggang Luo (Lanzhou University)
18:00-19:30	Dinner (3rd Floor, Xinzhu Yuan)		