

The Third Beijing-Tokyo Workshop on Ultracold Atomic Gases

Organizers: **Hui Zhai** *Tsinghua University*
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Location: 清华大学高等研究院三楼报告厅

8.25 2018 (Saturday)	
9:00-9:40	Pascal Naidon <i>RIKEN</i> Impurities in a BEC: Bose Polarons and Tetramers
9:40-10:20	Xiaoling Cui <i>IOP, CAS</i> Quantum Droplet Induced by Spin-Orbit Coupling
10:20-10:40	Break
10:40-11:20	Kohei Kawabata <i>University of Tokyo</i> Topological Classification of Non-Hermitian Insulators and Superconductors
11:20-12:00	Zhong Wang <i>IASTU</i> Non-Bloch Bulk-boundary Correspondence of Non-Hermitian Systems
12:00-2:00	Lunch Break
2:00-2:40	Shunsuke Furukawa <i>University of Tokyo</i> Quantum Hall States with Symmetry-Enriched Edge Modes in Multicomponent Bose Gases
2:40-3:20	Wei Yi <i>USTC</i> Fixed Points and Emergent Topological Phenomena in a Parity-Time-Symmetric Quantum Quench
3:20-3:50	Break
3:50-4:30	Ryusuke Hamazaki <i>University of Tokyo</i> Operator Noncommutativity and Irreversibility in Quantum Chaos
4:30-5:10	Yu Chen <i>Capital Normal U</i> Hall Conductance and Constraints on Non-Hermitian Topological Models

8.26 2018 (Sunday)	
9:00-9:40	Ce Wang <i>IASTU</i> Discovering Wave-function with an Auto-interpreted Recurrent Neural Network
9:40-10:20	Hiroki Saito <i>Univ. of Electro-Communications</i> Quantum Many-body Problems and Neural Networks
10:20-10:40	Break
10:40-11:20	Yadong Wu <i>IASTU</i> Machine Learning for Quantum Few- and Many-Body Problems
11:20-12:00	Naoto Tsuji <i>RIKEN</i> Out-of-Time-Order Fluctuation Theorem
12:00-2:00	Lunch Break

2:00-2:40	Zhigang Wu <i>SUSTC</i> Dynamics and Density Correlations in Jet Emissions of a Driven Condensate
2:40-3:20	Shunji Tsuchiya <i>Chuo Univ</i> Hidden Discrete Symmetries and Higgs Modes in Fermi Superfluids and Superconductors
3:20-3:50	Break
3:50-4:30	Ren Zhang <i>Xian Jiaotong U</i> Towards Quantum Simulation of Kondo Physics with Ultracold Alkaline Earth Atoms
4:30-5:10	Ippei Danshita <i>Kindai Univ.</i> Quench Dynamics of the Bose-Hubbard Model: Digital Classical Simulation versus Analog Quantum Simulation