



清华大学
TSINGHUA UNIVERSITY

THE THIRD BEIJING-TOKYO WORKSHOP ON ULTRACOLD ATOMIC GASES

ORGANIZERS /

Hui Zhai , Tsinghua University
Masahito Ueda , University of Tokyo
Shunsuke Furukawa , University of Tokyo

LOCATION /

清华大学高等研究院三楼报告厅
Room 322, Science Building, Institute for Advanced Study, Tsinghua University

8/25	Saturday
09:00-09:40	Pascal Naidon RIKEN Impurities in a BEC: Bose Polarons and Tetramers
09:40-10:20	Xiaoling Cui IOP, CAS Quantum Droplet induced by Spin-Orbit Coupling
10:20-10:40	Break
10:40-11:20	Kohei Kawabata University of Tokyo Topological Classification of Non-Hermitian Insulators and Superconductors
11:20-12:00	Zhong Wang IASTU Non-Bloch Bulk-boundary Correspondence of Non-Hermitian Systems
12:00-14:00	Lunch Break
14:00-14:40	Shunsuke Furukawa University of Tokyo Quantum Hall states with Symmetry-Enriched Edge Modes in Multicomponent Bose Gases
14:40-15:20	Wei Yi USTC Fixed Points and Emergent Topological Phenomena in a Parity-Time-Symmetric Quantum Quench
15:20-15:50	Break
15:50-16:30	Ryusuke Hamazaki University of Tokyo Operator Noncommutativity and Irreversibility in Quantum Chaos
16:30-17:10	Yu Chen Capital Normal U Hall Conductance and Constraints on Non-Hermitian Topological Models

8/26	Sunday
09:00-09:40	Ce Wang IASTU Discovering Wave-function with an Auto-interpreted Recurrent Neural Network
09:40-10:20	Hiroki Saito Univ. of Electro-Communications Quantum Many-body Problems and Neural Networks
10:20-10:40	Break
10:40-11:20	Yadong Wu IASTU Machine Learning for Quantum Few- and Many-Body Problems
11:20-12:00	Naoto Tsuji RIKEN Out-of-Time-Order Fluctuation Theorem
12:00-14:00	Lunch Break
14:00-14:40	Zhigang Wu SUSTC Dynamics and Density Correlations in Jet Emissions of a Driven Condensate
14:40-15:20	Shunji Tsuchiya Chuo Univ Hidden Discrete Symmetries and Higgs Modes in Fermi Superfluids and Superconductors
15:20-15:50	Break
15:50-16:30	Ren Zhang Xian Jiaotong U Towards Quantum Simulation of Kondo Physics with Ultracold Alkaline Earth Atoms
16:30-17:10	Ippei Danshita Kindai Univ. Quench Dynamics of the Bose-Hubbard model: Digital Classical Simulation versus Analog Quantum Simulation