

Program for The International Conference on Majorana Zero Modes: from Topological Superconductors to Non-Abelian Braiding Statistics

Date: February 13-15, 2025

Venue: International Holiday Community, Dali, Yunnan, China,
(太保家园大理国际乐养社区)

Address: 700 meters east of Cangshan National Geopark, Dali Town, Dali City
(大理市大理镇苍山国家地质公园往东700米)

February 13 (Thursday)	
14:00-18:00	Registration at International Holiday Community 1F lobby lounge
18:00-20:00	Reception at International Holiday Community 1F restaurant
February 14 (Friday)	
08:30-12:10	Session A Scientific Talks
13:30-17:30	Session B Free Discussion
17:30-19:50	Session C Scientific Talks
20:00-22:00	Banquet
February 15 (Saturday)	
08:30-12:10	Session D Scientific Talks
13:30-17:30	Session E Free Discussion
17:30-20:00	Session F Scientific Talks
20:15-22:00	Dinner

February 14 (Friday)

Session A (Chair:) 08:30-12:20

08:30-08:40	Opening ceremony
08:40-09:05	Leo Kouwenhoven Majorana bound states in Kitaev chains
09:05-09:30	Jay D. Sau Towards Rabi oscillation in Majorana nanowires: theory of nonlocal transport and microwave measurements
09:30-09:55	Ke He Approaching Majorana zero modes and topological quantum
09:55-10:20	Dong E. Liu Challenges and Potential Solutions for Majorana search in Nanowire systems
10:20-10:45	Group Photo & Coffee Break
10:55-11:20	Xi Dai
11:20-11:45	Li Lu
11:45-12:10	Hao Zheng
12:10-13:30	Lunch

Session B Free Discussion 13:30-17:30

Session C (Chair:) 17:30-19:50

17:30-17:55	Gang Su
17:55 -18:20	Wei Li Stripe-like charge order and its interaction with Majorana bound states in 2M-WS2
18:20-18:45	Xiao Hu LZS phenomena in MZM systems
18:45-19:00	Coffee Break
19:00-19:25	Tong Zhang Revealing Higher-Order topological bulk-boundary correspondence in bismuth nanocrystals with spin-helical hinge state loop and proximity superconductivity
19:25-19:50	Chun-Xiao Liu Braiding Majorana zero modes in a quantum dot superconductor array
20:00 – 22:00	Banquet

February 15 (Saturday)

Session D (Chair:) 08:30-12:15

08:30-08:55	Yulva Oreg Three-Phase Majorana Zero Modes and Topological Superconductivity in an Array of Josephson Junctions
08:55-09:20	Hong Ding
09:20-09:45	K. T. Law Quantum Anomalous Hall Insulator Based Platforms for Realizing Majorana Zero Modes
09:45-10:10	Yue Yu Designing Topological Magic Gate with Interacting Majorana Modes
10:10-10:30	Coffee Break
10:30-10:55	Zhen-Yu Zhang Different routes to realization of two-dimensional crystalline topological superconductors
10:55-11:20	Xiong-Jun Liu Non-Abelian statistics with symmetry protection: from free-fermion to strongly correlated
11:20-11:45	Jian Li Embedded Majorana Islands
11:45-12:15	Hai-Long Li Dissipation Features in Topological Superconductors
12:15-13:30	Lunch

Session E Free Discussion 13:30-17:30

Session F (Chair:) 17:30-20:15

17:30-17:55	Dong-Lai Feng Search of Majorana Fermions in Superconductor/Magnet Heterostructures
17:55 -18:20	Geng Li
18:20-18:45	Jie Shen
18:45-19:00	Coffee Break
19:00-19:25	Jie Liu
19:25-19:50	Tong Zhou
19:50-20:15	Yijia Wu Non-Abelian Braiding of Dirac Fermionic Modes