

QMIS1 (Majorana and Superconductivity)

Chair: Shiyu Zhu, Venue/Room: 311

Time	Speaker	Presentation Title
1:30-2:00	Prof. Hong-Jun Gao	Ordered and tunable Majorana-zero-mode lattice in iron-based superconductors
2:00-2:30	Prof. Ziqiang Wang	Loop-current order in kagome metals and superconductors
2:30-2:50	Dr. Peng Song	Symmetry and non-Hermiticity controlled Majorana braiding
2:50-3:10	Prof. Yi Zhou	Superfluid density wave as one kind of orbital-FFLO states

QMIS2 (2D and Topological Materials)

Chair: Jian Wang, Venue/Room: 311

Time	Speaker	Presentation Title
3:50-4:20	Prof. Chun Ning (Jeanie) Lau	Quantum Transport in High Mobility 2D Semiconductors
4:20-4:50	Prof. Zheng Han	Robust quantum Hall phase in graphene by interfacial charge coupling
4:50-5:20	Prof. Xiaodong Cui	Dynamic study on moire excitons in twisted WS ₂ /WSe ₂ heterostructures
5:20-5:50	Prof. Shengyuan Yang	Nonlinear valley Hall effect and its nonlocal transport signal

QMIS3 (Kagome Systems)

Chair: Lingyuan Kong, Venue/Room: 311

Time	Speaker	Presentation Title
1:30-2:00	Prof. Lu Li	Unusual Magnetic Oscillations in Kondo Insulator and Kagome Mott

		Insulator
2:00-2:30	Mr. Qianghua Wang	Theory of 2x2 pair density wave in kagome materials
2:30-3:00	Prof. Guang-Han Cao	CsCr3Sb5: a correlated kagome metal with flat band and pressure-induced superconductivity
3:00-3:20	Mr. Shiyu Zhu	Tunable bi-oriented AFM order and hysteretic switching of unidirectional CDW in kagome metal GdTi3Bi4
3:20-3:40	Dr. Wei Zhang	Electronic Structure and Superconducting Properties of the Kagome Superconductor CsV3Sb5

QMIS4 (Quantum Information-1)

Chair: Pengfei Zhang , Venue/Room:311

Time	Speaker	Presentation Title
3:50-4:20	Prof. Hoi Fung Chau	A Family Of Quantum Speed Limits For Evolution Of Quantum States And Operators
4:20-4:50	Prof. Xiongfeng Ma	Local Measurements for Preparing and Certifying Complex Quantum Many-Body States
4:50-5:20	Prof. Qingyu Cai	Universality of the Holographic Principle in Induced Horizons: Quantum Causal Penetration and Topological Corrections
5:20-5:40	Dr. Wentan Xue	Ultra-nonlocal non-Hermitian skin effect in two and higher dimensions
5:40-6:00	Mr Si-Yu Yuan	Pre-asymptotics of Multiband Non-Hermitian Systems

QMIS5 (Quantum Information-2)

Chair: RenBao Liu, Venue/Room: 311

Time	Speaker	Presentation Title
1:30-2:00	Prof Shi-Liang Zhu	Quantum Simulations in Condensed Matter: Artificial Gauge Fields and Multifractal-enriched Mobility Edges
2:00-2:30	Prof Lijian Zhang	Mitigating precision tradeoff in multi-parameter quantum metrology
2:30-3:00	Prof. Pengfei Zhang	Error-resilient Reversal of Quantum Chaotic Dynamics Enabled by Scramblons
3:00-3:20	Prof. Leong Chuan Kwek	Deep Neural Network in Integrated Photonic Architecture
3:20-3:40	Prof. B.V.R. Chowdari	MRS Singapore and ICMAT 2027

QMIS6 (Quantum Information-3)

Chair: Leong Chuan Kwek, Venue/Room:311

Time	Speaker	Presentation Title
3:50-4:20	Prof. RenBao Liu	Quantum sensing for physics beyond classical probes
4:20-4:50	Prof. Can-Ming Hu	Non-reciprocal control of the speed of light
4:50-5:20	Prof. YuXi Liu	Frequency allocation for large scale superconducting quantum circuits with graph neural networks
5:20-5:50	Mr Jian Xian Sim	Resonance Suppression Principle for Prethermalization beyond Periodic Driving