

2021 Tsung-Dao Lee Institute Youth Forum for Quantum Physics

May 17 (Monday)	
Session A: Chair: Jianda Wu	
08:30-09:25	Zhiyuan Sun Second order Josephson effect in excitonic insulators
09:25-09:30	Tea/Coffee Break
09:30-10:25	Anthony Charles Hegg Bose Metal via Failed Insulator: A Novel Phase of Quantum Matter
15:00-15:55	Sota Kitamura Nonreciprocal transport in noncentrosymmetric insulators
15:55-16:00	Tea/Coffee Break
16:00-16:55	Kang Yang exceptional spin liquid
May 18 (Tuesday)	
Session B: Chair: Wei Wang	
08:30-09:25	Yangmu Li Electron correlations in topological crystalline materials for future applications
09:25-09:30	Tea/Coffee Break
09:30-10:25	Shiming Lei Magnetic Quantum Materials: the Tale of Correlation and Topology
15:00-15:55	Cécile Repellin Detecting fractional Chern insulators in few-boson systems
15:55-16:00	Tea/Coffee Break
16:00-16:55	F Nur Ünal Out-of-equilibrium topology with ultracold atoms

Note: The time on the program is Beijing Time.

May 19 (Wednesday)

Session C: Chair: Chi Ming Yim	
08:30-09:25	Daniel Rizzo Charge-Transfer Plasmon Polaritons at Graphene/α-RuCl ₃ Interfaces
09:25-09:30	Tea/Coffee Break
09:30-10:25	He Zhao Atomic-scale fragmentation and collapse of antiferromagnetic order in a doped Mott insulator

May 20 (Thursday)

Session D: Chair: Ruidan Zhong	
08:30-09:25	Lun Yue Modeling high harmonic generation in solids with quantum and semiclassical models
09:25-09:30	Tea/Coffee Break
09:30-10:25	Thomas Bilitewski Many-body chaos in classical spin systems - with and without quasi-particles

15:00-15:55	Federico Mazzola Controlling and studying the electronic properties of quantum materials by using photoemission spectroscopy. A study on exotic oxides.
15:55-16:00	Tea/Coffee Break
16:00-16:55	Simon Brennecke Radiation pressure in strong-field ionization

May 21 (Friday)

Session E: Chair: Chi Ming Yim	
08:30-09:25	Fabio Lingua Bose-Einstein Condensates Collision
09:25-09:30	Tea/Coffee Break
09:30-10:25	Matthias Gohlik Quantum Spin Nematics in Spin-1/2 Frustrated Ferromagnets
15:00-15:55	Haiyuan Zou Tensor network for spectrum

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