

2018 Workshop of Max Planck-UBC-UTokyo Centre for Quantum Materials

Koshiba Hall, Hongo Campus, The University of Tokyo



DEC 9 (SUN) WELCOME BUFFET (HOTEL FOREST HONGO)

DEC 10 (MON)

8:00-8:25	Registration	
8:25-8:30	Opening: Atsushi Fujimori	
	Session I –Superconductivity, Nonequilibrium-	
8:30-9:00	Stefan Kaiser (MPI)	<i>Higgs Spectroscopy in Superconducting Cuprates</i>
9:00-9:30	Ryo Shimano (UTokyo)	<i>Light-induced Nonequilibrium Dynamics in Superconductors</i>
9:30-10:00	Takashi Oka (MPI)	<i>Dynamical Synchronization Transition and Floquet Condensation</i>
10:00-10:30	Coffee break	
	Session II –Superconductivity, New spectroscopy-	
10:30-10:50	Atsushi Fujimori (UTokyo)	<i>Antiferromagnetic Correlation in Protect-annealed Electron-doped Cuprates</i>
10:50-11:20	Douglas Bonn (UBC)	<i>Broadband Spectroscopy of High Mobility Carriers in FeSe and WP₂</i>
11:20-11:50	Ketty Na (UBC)	<i>New Approaches in Time resolved ARPES</i>
11:50-12:20	Pascal Nigge (UBC)	<i>Direct Observation of Momentum-resolved Landau Levels in Strained Monolayer Graphene</i>
12:20-14:00	Lunch & Poster Session	
	Session III -Spin-orbit, Magnetism I-	
14:00-14:30	Hide Takagi (MPI&UTokyo)	<i>Exotic Phase of Spin-orbital Entangled Matter</i>
14:30-15:00	Meigan Aronson (UBC)	<i>Emerging Quantum Criticality and Strong Correlations in Quasi-two Dimensional Systems</i>
15:00-15:30	Eva Benckiser (MPI)	<i>Reconstructions in Transition Metal Oxide Multilayers</i>

15:30-16:00	Coffee break	
	Session IV -Spin-orbit, Magnetism II-	
16:00-16:30	Masaki Oshikawa (UTokyo)	<i>Emergent SU(4) Symmetry in α-ZrCl₃ and Crystalline Spin-Orbital Liquids</i>
16:30-17:00	Kentaro Kitagawa (UTokyo)	<i>Materialization of Kitaev Materials and High-Pressure Physics</i>
17:00-17:30	Masamitsu Hayashi (UTokyo)	<i>Spin-light Interaction in Spin orbit Materials</i>
	Short Presentation by UBC intern students	
17:30-17:45	Warit Asavanant (UTokyo)	<i>Photonic Based Quantum Information Processing: Toward Practical and Scalable Technology with New Materials</i>
17:45-18:00	Xiruo Yan (UBC)	<i>Photonic Based Quantum Information Processing: Toward Practical and Scalable Technology with New Materials</i>
18:00-18:15	Yi lin Liu (UBC)	<i>Fabrication of Graphene Nanoribbon Network with Zigzag Edges</i>
18:15-18:30	Kelton Whiteaker (UBC)	<i>High-pressure Cell with Reduced Background Magnetization in SQUID Magnetometer</i>
18:50-	Banquet	

DEC 11 (TUE)

	Session V- Thin films, Topological, Oxides-	
8:30-9:00	Masashi Kawasaki (UTokyo)	<i>Quantum Transport in Ultra-clean Oxide Thin Films and Heterostructures</i>
9:00-9:30	Joseph Falson (MPI)	<i>Competing correlated phases in high mobility oxide two-dimensional electron systems</i>
9:30-10:00	George Sawatzky (UBC)	<i>A Molecular Orbital Approach to the Electronic Structure and Pairing Interactions in Negative Charge Transfer Gap Oxides</i>
10:00-10:30	Coffee break	
	Session VI -Oxides, Time-resolved X-ray, RIXS -	
10:30-11:00	Bernhard Keimer (MPI)	<i>TBA</i>
11:00-11:30	Hiroki Wadati (UTokyo)	<i>Ultrafast Element-specific Charge/Spin Dynamics Studied by Time-resolved X-ray Measurements</i>
11:30-12:00	Hakuto Suzuki (MPI)	<i>Resonant Inelastic X-ray Scattering from the Ruthenates</i>
12:00-14:00	Lunch & Poster Session / Board member meeting(13:00-)	
	Session -VII Atomic layer material, TMD, Material Fabrication -	
14:00-14:30	Curtis Berlinguette (UBC)	<i>Self-driving Laboratory for Accelerating Materials Discovery</i>
14:30-15:00	Shuji Hasegawa (UTokyo)	<i>Dissipation-less Currents at Atomic Layers</i>
15:00-15:30	Ziliang Ye (UBC)	<i>Discovery of Neutral and Charged Biexcitons in TMDs</i>
15:30-16:00	Yoshihiro Iwasa (UTokyo)	<i>Symmetry Controlled Properties of Transition Metal Dichalcogenide Nanostructures</i>
16:00-16:10	Closing: Hidenori Takagi	