

# FRONTIERS IN CORRELATED QUANTUM MATERIALS WORKSHOP

May 11 – 13, 2026 • Masonic Temple 2105 Bancroft Way, Berkeley

Time	Monday, May 11	Tuesday, May 12	Wednesday, May 13
09:15 - 09:30	<b>Welcome Remarks</b>		
Chair	<b>Koh Yamakawa</b>	<b>James Analytis</b>	<b>Ramesh Ramamoorthy</b>
09:30 - 10:05	<b>Eun-Ah Kim</b> <i>Representation Learning for Hard Data Problems in Quantum Matter</i>	<b>Kimberly Modic</b> <i>What magnetisation misses: transverse susceptibility in UTe<sub>2</sub></i>	<b>David Hsieh</b> <i>Interaction-driven phonon thermal Hall response in crystalline insulators</i>
10:05 - 10:40	<b>Scott Riggs</b> <i>An AI Co-scientist for Accelerating Experimental Results</i>	<b>Kamran Behnia</b> <i>Interaction-driven phonon thermal Hall response in crystalline insulators</i>	<b>Joseph Orenstein</b> <i>Magnon propagation senses the universal KTB superfluid density jump in BSCCO</i>
10:40 - 11:10	Morning Coffee	Morning Coffee	Morning Coffee
11:10 - 11:45	<b>Joel Moore</b> <i>Symmetry-informed machine learning for complex magnets and quantum geometry</i>	<b>Ming Yi</b> <i>Emergence of Plasmonic Quasiparticle Renormalization at a Van Hove Singularity</i>	<b>J.C. Séamus Davis</b> <i>Quantum Spin Liquid Noise Spectroscopy</i>
11:45 - 12:20	<b>Yasaman Bahri</b> <i>Perspectives on AI for Materials</i>	<b>Suyang Xu</b> <i>A Chiral Superlattice Route to Spin-Split Topological Antiferromagnetism</i>	<b>John Singleton</b> <i>Magnetic quantum oscillations due to a spinon Fermi surface in a wide band-gap Kagome-Mott insulator</i>
12:30 - 13:15	Lunch Break	Adjourn / Free Afternoon	Lunch Break
01:15 - 02:00	<b>Poster Session</b>	Excursion & Speaker Lunch	<b>Poster Session</b>
Chair	<b>Joe Orenstein</b>		<b>Joel Moore</b>
02:00 - 02:35	<b>Ram Seshadri</b> <i>Can we use AI to understand metallic or near-metallic oxides?</i>		<b>Ruihua Fan</b> <i>Fractional quantum Hall state under density decoherence</i>
02:35 - 03:10	<b>James Analytis</b> <i>Fragile Itineracy in an unconventional superconductor</i>		<b>Kemp Plumb</b> <i>Spin liquids in frustrated magnets and evidence for a nodal line spin liquid</i>
03:10 - 03:40	Afternoon Coffee	Return from Excursion & Speaker Lunch	Afternoon Coffee
03:40 - 04:15	<b>J.C. Séamus Davis</b> <i>Visualizing Spin Triplet Order Parameter &amp; Superconductive Topological Surface Band of UTe<sub>2</sub></i>		<b>Daniel Podolsky</b> <i>Trimerization and flavor symmetry breaking in a triangular-lattice SU(4) antiferromagnet</i>
04:15 - 04:50	<b>Barry Bradlyn</b> <i>Topological superconductivity beyond symmetry indicators</i>		<b>Ramamoorthy Ramesh</b> <i>Solving global scale problems with basic science</i>
Dinners	Self-organized		