

# Workshop Schedule

30 min talk + 15 min discussion

Time	Tuesday May 28th	Wednesday May 29th	Thursday May 30th	Friday May 31st
9:00 AM	Opening			
9:30 AM	Session 1 – Chair: A. Cavalleri	Session 3 – Chair: K. Burch	Session 5 – Chair: A. Millis	Session 7 – Chair: A. Rubio
	D. Basov - Nano-optical phenomena and van der Waals interfaces	M. Hafezi - Quantum optics of 2D correlated materials	E. Demler - Photons for many body physics: a platform and probe	R. Fernandes - Unconventional charge density waves in quantum materials
10:15 AM	M. Fogler - Theory of photocurrent nanoscopy: the big picture and small details	C. Galland - Collective coherence in spontaneous Raman scattering	M. Polini - Tuning quantum materials with sub-wavelength cavities	L. Schoop - How to find the next quantum material that is worth studying?
11:00 AM	Coffee break	Coffee break	Coffee break	Coffee break
11:30 AM	M. Atatüre - Optical control of a dense nuclear ensemble	J. Shabani - Superconducting proximity effect in semiconductors with twist	Panel Discussion - Millis, Georges, Xiao, Latini, Low	M. Vergniory - Phonons and Topology: Opportunities and Challenges
12:30 PM	Lunch	Lunch	Lunch	Summary Discussion
2:45 PM	Session 2 – Chair: J. Shabani	Panel Discussion - Averitt, Hillenbrand, Cerullo, McIver, Mahmood	Session 6 – Chair: R. Fernandes	
	M. Bonn - Spectroscopic studies of water interacting with 2D materials		I. Bloch - Probing and Engineering Strongly Correlated Quantum Matter Using Ultracold Atoms in Optical Lattices	
3:30 PM	Coffee break	Coffee break	Coffee break	
4:00 PM	A. Alù - Quantum phenomena in metamaterials	Session 4 – Chair: Q. Ma	R. Huber - Sculpting electronic quantum trajectories with lightwaves	
		D. Efetov - Topological heavy fermions in magic angle twisted bilayer graphene		
4:45 PM	Q. Ma - Light-matter Interactions through the Quantum Geometric Lens	J. Shan - Engineering strongly correlated and topological states in semiconductor moire	End for the day	
5:30 PM	End for the day	End for the day		
8:00PM		Conference Dinner		5