

Workshop on Advances in Non-Fermi Liquids
LBLN Building 66 – Room 317 – August 14–17, 2018

Wednesday	Thursday	Friday
8:45–9:10 – Breakfast	8:45–9:15	8:45–9:15
9:10–9:15 Welcome	Breakfast	Breakfast
TOPOLOGICAL MATERIALS	HYDRODYNAMIC MATERIALS	STRANGE METALS
Chair: Ross McDonald	Chair: Joe Orenstein	Chair: Sean Hartnoll
9:30–10:05	9:30–10:05	9:30–10:05
Jennifer Cano <i>Frontiers of topological semimetals</i>	Andy Mackenzie <i>Experimental searches for electron hydrodynamics</i>	Erez Berg <i>Transport in quantum critical metals</i>
10:05–10:40	10:05–10:40	10:05–10:40
Lu Li <i>Quantum Oscillations of Kondo Insulators</i>	Thomas Scaffidi <i>Hydrodynamic electron flow and Hall viscosity</i>	Nigel Hussey <i>Electrical resistivity across a nematic quantum critical point</i>
10:40–11:10	10:40–11:10	10:40–11:10
Coffee Break	Coffee Break	Coffee Break
11:10–11:45	11:10–11:45	11:10–11:45
Joseph Maciejko <i>Quantum criticality in Dirac semimetals and spin liquids</i>	Carsten Putkze <i>Ballistic Transport in PdCoO₂</i>	Francis Laliberte <i>Universal T-linear resistivity and Planckian limit in overdoped cuprates</i>
12:30 (No Lunch Scheduled)	11:45–12:20	11:45–12:20
	Andy Lucas <i>Transport, localization and Planckian time scales</i>	Subir Sachdev <i>Building strange metals from SYK models</i>
	12:20–2:20	12:20–2:20
	Lunch and Poster Session	Lunch and Poster Session
	Chair: Inna Vishik	Chair: Joel Moore
	2:20–2:55	2:20–2:55
	Clément Collignon <i>Mysteries of charge transport in strontium titanate</i>	Susanne Stemmer <i>Magnetic-field tunable non-Fermi liquids in oxide heterostructures</i>
	2:55–3:30	2:55–3:30
	John McGreevy <i>Strange metals from local quantum chaos</i>	Nandini Trivedi <i>Real time dynamics to probe fractionalization in quantum spin liquids</i>
	3:30–4:00	3:30–4:00
	Coffee Break	Coffee Break
	4:00–4:35	4:00–4:35
	Andrea Young <i>Correlations in moire flat bands</i>	Ulrich Schollwöck <i>DMRG meets DMFT</i>
	4:35–5:00	4:35–5:00
	Feng Wang <i>Tunable Mott Insulator in Trilayer Graphene/Boron Nitride Superlattices</i>	Michael Zaletel <i>Numerical evidence for a time-reversal broken chiral spin liquid phase at the metal-insulator transition of the triangular-lattice Hubbard model</i>