

# Spin Orbit Coupling School Timetable

Time	Thursday, October 22	Time	Friday, October 23	Time	Saturday, October 24	Time	Sunday, October 25
8:45 – 9:00	<i>Introductory remarks by Andrea Damascelli</i>	9:00 – 10:00	<i>Anisotropic interactions in correlated electronic systems with strong spin-orbit coupling Part 1</i> <b>Natalia Perkins</b> (University of Minnesota, USA)	9:00 – 10:00	<i>New physics in topological insulators and superconductors Part 1</i> <b>Marcel Franz</b> (University of BC, Canada)	9:00 – 10:00	<i>From Synthesis to thermodynamics: The interplay of competing crystalline phases and competing electronic phases</i> <b>James Analytis</b> (University of California, USA)
9:00- 10:00	<i>From the Dirac equations to fine structure in atoms</i> <b>Maurits Haverkort</b> (MPI, Germany)						
10:00 – 11:00	<i>Spin-orbit in solids and at surfaces: experiments Part 1</i> <b>Marco Grioni</b> (EPFL, Switzerland)	10:00 – 11:00	<b>Talks</b> – Nikolaj Bittner (30 min), Yasuyuki Nakajima (30 min)	10:00 – 11:00	<i>Topological Band and Correlated Insulators</i> <b>David Hsieh</b> (Caltech, USA)	10:00 – 11:00	<i>Spin-orbital entanglement and spin-triplet pairing in Sr2RuO4</i> <b>Andrea Damascelli</b> (University of BC, Canada)
11:00 – 11:30	<b>Coffee Break</b>	11:00- 11:30	<b>Coffee Break</b>	11:00 – 11:30	<b>Coffee Break</b>	11:00 – 11:30-	<b>Coffee Break</b>
11:30 – 12:30	<i>Quantum spin hall candidate InAs/GaSb: promise and practice</i> <b>Josh Folk</b> (University of BC, Canada)	11:30 – 12:30	<i>The detection of broken symmetry states and spin-orbital liquids with coherent optical probes</i> <b>Peter Armitage</b> (Johns Hopkins, USA)	11:30 – 12:30	<i>Topological aspects of transport in topological semimetals: observing quantum anomalies</i> <b>Sid Parameswaran</b> (University of California, USA)	11:30 – 12:30	<i>A hidden magnetic order in Sr2IrO4 system revealed by optical second harmonic generation</i> <b>Liuyan Zhao</b> (Caltech, USA)
12:30 – 13:30	<b>Lunch</b>	12:30 – 13:30	<b>Lunch</b>	12:30 – 13:30	<b>Lunch</b>	12:30 – 13:30	<b>Lunch</b>
13:30 – 14:30	<i>From atoms to solids with Desselhaus and Rashba interactions</i> <b>Maurits Haverkort</b> (MPI, Germany)	13:30 – 14:30	<i>Anisotropic interactions in correlated electronic systems with strong spin-orbit coupling Part 2</i> <b>Natalia Perkins</b> (University of Minnesota, USA)	13:30 – 14:30	<i>New physics in topological insulators and superconductors Part 2</i> <b>Marcel Franz</b> (University of BC, Canada)	13:30 – 14:30	<b>Talks</b> – Sergey Zhdanovich (30 min) & Alejandro Ruiz (30 min)
14:30 – 15:30	<i>Spin-orbit in solids and at surfaces: experiments Part 2</i> <b>Marco Grioni</b> (EPFL, Switzerland)	14:30 – 15:00	<b>Talk</b> – Marc Hoppner (30 min)	14:30 – 15:30	<i>Topological Semimetals and Superconductors</i> <b>David Hsieh</b> (Caltech, USA)	14:30 – 15:30	<i>Concluding remarks by School Organizers</i>
15:30 – 16:00	<b>Coffee Break</b>	15:00 – 15:30	<b>Coffee Break</b>	15:30 – 16:00	<b>Coffee Break</b>		
16:00 – 17:00	<b>Posters</b>	15:30 – 17:30	<b>Tour</b> of AMPEL/Quantum Matter Institute Facilities	16:00 – 17:00	<b>Talks</b> – Ioannis Rousochatzakis (30 min) & Armin Rahmani (30 min)		
17:00	<b>Reception</b>	17:30	<b>Bus Departs:</b> Dinner for Speakers (18:40)				