

**LDQCM-19-Workshop**  
**Monday 1st – Friday 5th July 2019**  
**PROGRAMME**

**MONDAY 1**

TIME	TALK/ SESSION	LOCATION
09:00	<i>Magnetism in the Ultrathin Chromium Trihalides</i> - <b>Dahlia Klein (MIT)</b>	<b>C0.110</b>
10:00	Hydrodynamics of integrable systems: diffusion, dynamical correlation functions, full counting statistics for transport – <b>Benjamin Doyon (King's College London)</b>	
10:30	Entanglement Content of Localized Excitations – <b>Olalla Castro-Alvaredo (City University of London)</b>	
<b>11:00</b>	<b>COFFEE BREAK</b>	Chessboard
11:30	<i>Disorder-free Floquet Symmetry Protected Topological Phases (SPT) in 1D</i> - <b>Aditi Mitra (New York University)</b>	<b>C0.110</b>
12:00	<i>Generalized Hydrodynamics on an Atom Chip</i> – <b>Jerôme Dubail (University of Lorraine)</b>	
12:30	<i>Lieb-Liniger Tales</i> – <b>Giuseppe Mussardo (SISSA, Trieste)</b>	
<b>13:00</b>	<b>LUNCH BREAK</b>	Canteen
14:00	Free Discussion	<b>A1.04, A1.06</b>
<b>15:00</b>	<b>COFFEE BREAK</b>	Chessboard
15:30	Free Discussion	<b>A1.04, A1.06</b>
<b>17:30</b>	<b>DAY END</b>	

**TUESDAY 2**

TIME	TALK/ SESSION	LOCATION
09:00	<i>From Floquet engineering to dynamical gauge fields</i> - <b>Tilman Esslinger Klein (ETH Zurich)</b>	<b>C0.110</b>
10:00	<i>Unitary circuits of finite depth and infinite width from quantum channels</i> – <b>Austen Lamacraft (University of Cambridge)</b>	
10:30	<i>Entanglement entropy of highly excited eigenstates of many-body lattice Hamiltonians</i> – <b>Marcos Rigol (Penn State University)</b>	
<b>11:00</b>	<b>COFFEE BREAK</b>	Chessboard
11:30	<i>Integrable Lindblad Equations</i> – <b>Fabian Essler (Oxford University)</b>	<b>C0.110</b>
12:00	<i>Order parameters for topological phases from tensor networks</i> – <b>Norbert Schuch (MPO Garching)</b>	
<b>12:30</b>	<b>LUNCH BREAK</b>	Canteen
14:00	<i>Universal Transport Properties in the Quantum Hall Effect</i> – <b>Andrea Cappelli (INFN Florence)</b>	<b>C0.110</b>
14:30	<i>Thermal Transport of Edge States in the 5/2 Quantum Hall State</i> – <b>Steve Simon (Oxford University)</b>	<b>C0.110</b>
<b>15:00</b>	<b>COFFEE BREAK</b>	Chessboard
15:30	Free Discussion	<b>A1.04, A1.08</b>
<b>17:30</b>	<b>DAY END</b>	

### WEDNESDAY 3

TIME	TALK/ SESSION	LOCATION
09:00	<i>Topological effects in a Bi based 3D Dirac semimetal</i> - <b>Alexander Brinkman (University of Twente)</b>	C1.112
10:00	<i>Topological Phases of Matter out of Equilibrium</i> – <b>Nigel Cooper (University of Cambridge)</b>	
10:30	<i>Quadratic speedup for finding marked vertices by quantum walks</i> – <b>Stacey Jeffery (CWI Amsterdam)</b>	
11:00	<b>COFFEE BREAK</b>	Chessboard
11:30	<i>Non-Abelian Symmetries and Disorder: A Broad Non-Ergodic Regime and Anomalous Thermalization</i> – <b>Dmitry Abanin (University of Geneva)</b>	C1.112
12:00	<i>Floquet systems with quantized drive</i> – <b>Michael Kolodrubetz (University of Texas)</b>	
12:30	<i>Exact Correlation Functions for Dual-Unitary Lattice Models in 1+1 Dimensions</i> – <b>Tomaz Prosen (University of Ljubljana)</b>	
13:00	<b>LUNCH BREAK</b>	Canteen
14:00	Free Discussion	A1.04, A1.06
15:00	<b>COFFEE BREAK</b>	Chessboard
15:30	Free Discussion	A1.04, A1.06
18:00	<b>Dinner at the Amsterdamse Academische Club (invited participants)</b>	

### THURSDAY 4

TIME	TALK/ SESSION	LOCATION
09:00	<i>Electrical transport and spectroscopy studies of the layered delafossite metal PdCrO<sub>2</sub></i> – <b>Andrew MacKenzie (MPI - CPS, Dresden)</b>	C0.110
10:00	<i>Many-body dynamics in pump and probe experiments: From light amplification to terahertz STM</i> – <b>Eugene Demler (Harvard University)</b>	
10:30	<i>Explicit construction and Floquet realization of counter-diabatic protocols in quantum and classical systems</i> – <b>Anatoli Polkovnikov (Boston University)</b>	
11:00	<b>COFFEE BREAK</b>	TBC
11:30	<i>Integrable dissipative spin chains</i> – <b>Hosho Katsura (University of Tokyo)</b>	C0.110
12:00	<i>From quantum many-body scars to mixed phase spaces</i> – <b>Maksym Serbyn (IST Austria)</b>	
12:30	<i>SPT, AKLT, CFT, and Onsager</i> – <b>Paul Fendley (Oxford University)</b>	
13:00	<b>LUNCH BREAK</b>	Canteen
14:00	Free Discussion	A1.04, A1.06
15:00	<b>COFFEE BREAK</b>	Chessboard
15:30	Free Discussion	A1.04, A1.06
17:30	<b>DAY END</b>	

### FRIDAY 5

TIME	TALK/ SESSION	LOCATION
09:00	<i>Emergent Bound States and Impurity Pairs in chemically doped Shastry-Sutherland system</i> – <b>Sara Haravifard (Duke University)</b>	C0.110
10:00	<i>On robust aspects of the out-of-equilibrium dynamics</i> – <b>Luca Tagliacozzo (University of Barcelona)</b>	
10:30	<i>Topological chiral spin liquids in quantum antiferromagnets</i> – <b>Didier Poiblanc (University of Toulouse)</b>	
11:00	<b>COFFEE BREAK</b>	Chessboard
11:30	<i>Floating Phase versus Chiral Transition in a 1D Hard-Boson Model of Rydberg cold atoms</i> – <b>Frederic Mila (EPFL, Switzerland)</b>	C0.110
12:00	<i>Cavity Quantum Enhancement of Superconductivity and Superconducting Polaritons</i> – <b>Victor Galitski (University of Maryland)</b>	
12:30	<i>Sum Rules for Linear and Non-Linear Conductivities</i> – <b>Masaki Oshikawa (University of Tokyo)</b>	
13:00	<b>LUNCH BREAK</b>	Canteen
14:00	Free Discussion	A1.04, A1.06
15:00	<b>COFFEE BREAK</b>	Chessboard
15:30	Free Discussion	A1.04, A1.06
17:30	<b>DAY END</b>	