LDQCM-15 Workshop

Monday 29th June – Friday 3rd July 2015

PROGRAMME

DAY 1

TIME	TALK/ SESSION	LOCATION
09:00	*Ultrafast Switching to a Stable Hidden Quantum State in an Electronic Crystal* - **Dragan Mihailovic (Jozef Stefan Institute and Uni. Ljubljana)**	**C0.110**
10:00	*Exact diagonalizations of SU(N) Heisenberg models taking full advantage of SU(N) symmetry* – **Frederic Mila (Ecole Polytechnique Federale de Lausanne)**	
10:30	*New quasi-local concerved operators in XXX spin 1/2 chain* – **Tomaz Prosen (University of Ljubljana)**	
11:00	**COFFEE BREAK**	**Chessboard**
11:30	*Threshold singularities in 1D interaction fermion models* – **Fabian Essler (Oxford University)**	**C0.110**
12:00	*Lattice models with explicit, hidden and emergent supersymmetry* – **Liza Huijse (Stanford University)**	
12:30	**LUNCH BREAK**	**Canteen**
14:00	Free Discussion	**A1.08, A1.10**
15:00	**COFFEE BREAK**	**Chessboard**
15:30	Free Discussion	**A1.08, A1.10**
17:30	**DAY END**	

DAY 2

TIME	TALK/ SESSION	LOCATION
09:00	*Correlated topological insulators and Dirac metals* – **Fakher Assaad (University of Würzburg)**	**C0.110**
09:30	*Multipole expansion in the quantum Hall effect* – **Andrea Cappelli (INFN, Florence)**	
10:00	*Non-equilibrium transport and optical probes of topological phases* – **Joel Moore (UC Berkeley)**	
10:30	*Topological phenomena in periodically driven systems: the role of disorder and interactions* – **Erez Berg (Weizmann Institute)**	
11:00	**COFFEE BREAK**	**Chessboard**
11:30	*A parafermionic avatar of the MBL transition* – **Paul Fendley (Oxford University)**	**C0.110**
12:00	*Field Theories over MPS states* – **Andrew Green (UCL)**	
12:30	**LUNCH BREAK**	**Canteen**
14:00	Free Discussion	**A1.08, A1.10**
15:00	**COFFEE BREAK**	**Chessboard**
15:30	Free Discussion	**A1.08, A1.10**
18:00	**PUBLIC LECTURE:** *The Great Game - The fascinating language of symmetry* – **Giuseppe Mussardo (SISSA)**	**C0.07 (City Centre)**
19:00	**PUBLIC LECTURE RECEPTION**	**C0.07 (Foyer)**

DAY 3

TIME	TALK/ SESSION	LOCATION
09:00	*'Solving' a Quantum Many Body Problem by Experiment* – **Jörg Schmiedmayer (Vienna Center for Quantum Science and Technology, TU-Wien)**	**C0.110**
10:00	*Non-equilibrium steady states in many-body quantum systems* – **Benjamin Doyon (King's College London)**	
10:30	*Quantum stutter: arrested expansion without a lattice and impurity snaking* – **Robert Konik (Brookhaven National Lab)**	
11:00	**COFFEE BREAK**	**Chessboard**
11:30	*Statistical Aspects of Quantum State Monitoring and Applications* – **Denis Bernard (ENS & CNRS)**	**C0.110**
12:00	*Off-equilibrium QFT* – **Giuseppe Mussardo (SISSA)**	
12:30	*Status Report on Superconductivity in Strontium Ruthenate* – **Steve Simon (Oxford University)**	
13:00	**LUNCH BREAK**	**Canteen**
14:00	Free Discussion	**A1.08, A1.10**
15:00	**COFFEE BREAK**	**Chessboard**
15:30	Free Discussion	**A1.08, A1.10**
18:00	**WORKSHOP RECEPTION**	**Hortus Botanicus**

DAY 4

TIME	TALK/ SESSION	LOCATION
09:00	*Geometrodynamics of the fractional quantum Hall effect* – **F. Duncan M. Haldane (Princeton University)**	**C0.110**
09:30	*The fine structure of quantum hall edge states* – **Austen Lamacraft (University of Cambridge)**	
10:00	*Geometric responses of Quantum Hall systems* – **Alexandre Abanov (Stony Brook University)**	
10:30	*Prediction of Weyl Semimental in TaAs* – **B. Andrei Bernevig (Princeton University)**	
11:00	**COFFEE BREAK**	**Chessboard**
11:30	*Tuning between Weyl semimetals and fractional Chern insulators in frustrated materials* – **Emil Bergholtz (Free University of Berlin)**	**C0.110**
12:00	*Entanglement- and Energy-Spectra of Conformal Critical Points* – **Andreas Läuchli (University of Innsbruck)**	
12:30	*Optical conductivity in the cuprates from holography and unparticles* – **Philip Phillips (University of Illinois)**	
13:00	**LUNCH BREAK**	**Canteen**
14:00	Free Discussion	**A1.06, A1.08**
15:00	**COFFEE BREAK**	**Chessboard**
15:30	Free Discussion	**A1.06, A1.08**
17:30	**DAY END**	

DAY 5

TIME	TALK/ SESSION	LOCATION
09:00	*Topological states in driven photonic systems* – **Mohammad Hafezi (University of Maryland)**	**C0.110**
10:00	*Topology by Dissipation in Atomic Fermion Systems* – **Sebastian Diehl (TU Dresden)**	
10:30	*Symmetry-Protected Topological Orders at Finite Temperature* – **Miguel A. Martin-Delgado (Universidad Complutense Madrid)**	
11:00	**COFFEE BREAK**	**TBC**
11:30	*Gauge freedom in transport through quantum dots: interaction-induced geometric pumping* – **Maarten Wegewijs (Peter Grünberg Institute, Forschungszentrum Jülich)**	**C0.110**
12:00	*Unification of integrable steady states via supersymmetric Yangians* – **Enej Ilievski (University of Amsterdam)**	
12:30	*Conformal loop ensembles and Liouville at c<1* – **Hubert Saleur (IPhT CEA Saclay)**	
13:00	**LUNCH BREAK**	**Canteen**
14:00	Free Discussion	**A1.08, A1.10**
15:00	**COFFEE BREAK**	**TBC**
15:30	Free Discussion	**A1.08, A1.10**
17:30	**DAY END**	