



## Noisy Many-body Systems

Workshop, 5 – 7 March 2012, ITP Heidelberg (Philosophenweg 19)

<b>5/3/2012</b>	
10:30	<i>lab visits (PI Weidemüller group), meeting point in front of PI (Philosophenweg 12)</i>
<b>13:45 – 14:00</b>	<b>Welcome</b>
14:00 – 14:45	Shmuel Fishman (Haifa): <i>Transport in potentials random in space and time: From Anderson localization to super-ballistic motion</i>
14:45 – 15:30	Giovanni Modugno (Florence): <i>Ultracold bosons with disorder, interactions and noise</i>
15:30 – 16:00	<i>coffee break</i>
16:00 – 16:45	Mark Sadgrove (Tokyo): <i>Momentum transport of cold atoms in phase controlled optical lattices</i>
16:45 – 17:30	Riccardo Mannella (Pisa): tba
<b>6/3/2012</b>	
09:15 – 09:45	Stephan Burkhardt (ITP): <i>Noise driven Landau-Zener tunneling</i>
09:45 – 10:30	Giovanna Morigi (Saarbrücken): <i>Quantum superposition of crystalline structures</i>
10:30 – 11:00	<i>coffee break</i>
11:00 – 11:45	Peter Schlagheck (Liege): <i>Mesoscopic transport with ultracold atoms</i>
11:45 – 12:30	Matthias Weidemüller (PI): <i>Many-body phenomena in ultracold Rydberg gases</i>
12:30	<i>lunch and lab visits</i>
14:30 – 15:15	Herwig Ott (Kaiserslautern): <i>Dissipative defects in ultracold quantum gases</i>
15:15 – 15:45	Georgios Kordas (ITP): <i>Many-body dynamics in a dissipative lattice</i>
15:45 – 16:15	<i>coffee break</i>
16:15 – 17:00	Greg Scholes (Toronto/Freiburg): <i>Quantum effects and disorder in photosynthetic light harvesting</i>
17:00 – 17:45	Andreas Buchleitner (Freiburg): <i>Quantum transport in biological functional units: noise, disorder, structure</i>
<b>7/3/2012</b>	
09:15 – 10:00	Bassano Vacchini (Milan): <i>Markovian versus non-Markovian dynamics in classical and quantum systems</i>
10:00 – 10:30	Andrea Tomadin (SNS, Pisa): <i>Nonequilibrium quantum phase transitions in optomechanical arrays</i>
10:30 – 11:00	<i>coffee break</i>
11:00 – 11:45	James Anglin (Kaiserslautern): <i>Quantum thermodynamic efficiency of a simple Hamiltonian engine</i>
11:45 – 12:30	Andreas Komnik (ITP): <i>Noise and higher order correlations in transport properties of nanoscale conductors</i>
13:00	<b>Workshop summary</b>
14:30 – 17:00	<i>lab tour at Campus INF (KIP - Oberthaler group)</i>
17:30 – 18:30	<i>guided city tour (meeting point: Bismarck-Platz/elevator Kaufhof)</i>