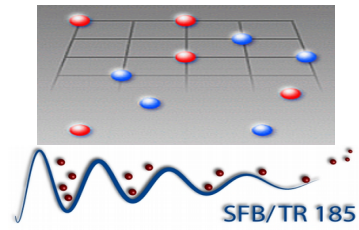


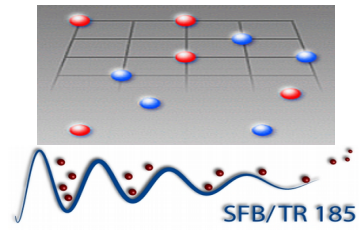
**International School on
Linear Response and
Nonequilibrium Dynamics of
Quantum Many-Body Systems
Castle Burgbrohl
August 13-16, 2018**



Monday, August 13

Until 10:00	Arrival
10:00-11:00	<i>Coffee and Registration</i>
11:00-11:15	Sebastian Eggert (Kaiserslautern): <i>Opening</i>
11:15-12:15	Masahito Ueda (Tokyo): <i>Linear response and sum rules of ultracold atomic gases – Part I</i>
12:15-12:30	Discussion
12:30-14.00	<i>Lunch</i>
14:00-15:00	Oliver Stockert (Dresden): <i>Neutron scattering: A unique microscopic probe to study magnetism – Part I</i>
15:00-15:15	Discussion
15:15-15.45	<i>Coffee Break</i>
15:45-16:45	Ulrich Schollwöck (Munich): <i>Time-dependence with matrix product states</i>
16:45-17:00	Discussion
17:00-18:00	Ulrich Schneider (Cambridge): <i>Quantum quenches, transport properties and thermalization in optical lattices</i>
18:00-18:15	Discussion
18:30-20:00	<i>Dinner</i>
20:00-21.30	Poster Session I

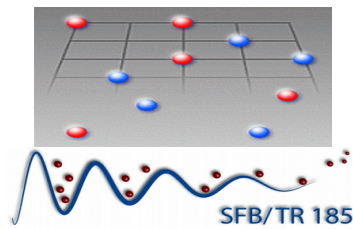
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Tuesday, August 14

08:00-09:00	<i>Breakfast</i>
09:00-10:00	Ulrich Schollwöck (Munich): <i>Spectral functions: Dynamical Mean-Field Theory as a challenge</i>
10:00-10:15	Discussion
10:15-10:45	<i>Coffee Break</i>
10:45-11:45	Ulrich Schneider (Cambridge): <i>Many-body localization in optical lattices</i>
11:45-12:00	Discussion
12:15-13:45	<i>Lunch</i>
14:00-15:00	Thomas Gasenzer (Heidelberg): <i>Universal dynamics near non-thermal fixed points – Part I</i>
15:00-15:15	Discussion
15:15-15:45	<i>Coffee Break</i>
15:45-16:45	Masahito Ueda (Tokyo): <i>Linear response and sum rules of ultracold atomic gases – Part II</i>
16:45-17:00	Discussion
17:00-18:00	Oliver Stockert (Dresden): <i>Neutron scattering: A unique microscopic probe to study magnetism – Part II</i>
18:00-18:15	Discussion
18:30-20:00	<i>Dinner</i>
20:00-	Socializing

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Wednesday, August 15

- 07:30-08:30 *Breakfast*
- 08:30-09:30 Thomas Gasenzer (Heidelberg):
Universal dynamics near non-thermal fixed points – Part II
- 09:30-09:45 Discussion
- 09:45-10:15 *Coffee Break*
- 10:15-11:15 Kilian Singer (Kassel):
*The single ion heat engine – a sensitive quantum probe for
non-classical baths*
- 11:15-11:30 Discussion
- 11:30-13:00 *Lunch*
- 13:00-18:00 Excursion
Visit of volcano museum in Mendig
- 18:30-20:00 *Dinner*
- 20:00-21.30 Poster Session II

Thursday, August 16

- 08:00-09:00 *Breakfast*
- 09:00-10:00 Michael Bauer (Kiel):
Principles of time- and angle-resolved photoelectron spectroscopy
- 10:00-10:15 Discussion
- 10:15-10:45 *Coffee Break*
- 10:45-11:45 Michael Bauer (Kiel):
Non-equilibrium carrier dynamics in two-dimensional materials
- 11:45-12:00 Discussion
- 12:15-13:45 *Lunch*
- 13:45- Departure