

LGFG-Research Training Group

Quantum Many-Body Dynamics and Nonequilibrium Physics

Summer Retreat 2012

02-03 May 2012,

Internationales Wissenschaftsforum Heidelberg (IWH), Hauptstr. 242, 69117 Heidelberg
http://www.iwh.uni-hd.de/index_engl.html

Programme

Wednesday, 02 May

- 09:30 **Sebastian Bock**
Kondo regime of the non-equilibrium time evolution of an Anderson quantum dot
- 10:00 **Martin Ries**
Towards a three-component Fermi gas in an optical lattice
- 10:30 **Hanna Schempp**
Non-classical statistics of strongly interacting dark-state polaritons
- 11:00 *Coffee Break*
- 11:30 **Juris Ulmanis**
Perspectives of ultracold Bose-Fermi mixtures of Li and Cs atoms and LiCs molecules
- 12:00 **Gerhard Zürn**
Pairing in a few-fermion system with attractive interactions
- 12:30 **Boris Nowak**
Nonthermal fixed points, vortices and solitons
- 13:00 *Lunch at IWH*
- 14:30 **Steven Mathey**
Functional renormalisation group for randomly stirred Burgulence
- 15:00 *Coffee Break, transfer to KIP*

17:00 *Pretalk*, Kirchhoff-Institut, INF 227 SR 1.403

Georgios Kordas

(Institut für Theoretische Physik, Universität Heidelberg)

Dynamics in Dissipative Bose-Hubbard Chains

17:30 *CQD Colloquium*, Kirchhoff-Institut, INF 227 SR 1.403

Jörg Schmiedmayer

(Vienna Center for Quantum Science and Technology, Atominstitut, TU-Wien)

Relaxation Dynamics and Pre-thermalization in an isolated Quantum System

19:00 *Nachsitzung*

Thursday, 03 May

10:00 **Igor Böttcher**

Hydrodynamic collective modes for cold trapped gases (prelim)

10:30 **David Mesterhazy**

Effect of short-range interactions on the phase diagram of graphene

11:00 *Coffee Break*

11:30 **Eike Nicklas**

Observation of Pattern Formation in a quenched binary Bose-Einstein Condensate

12:00 **Kilian Heeg**

Floating Rydberg crystals formed by resonant excitation

12:30 **Michael Haas**

Transport coefficients in QCD (prelim.)

13:00 *Lunch at IWH*

14:00 *End of the meeting*