Tuesday, 16 December 2014

- 14:00 18:00 Arrival and Registration
- from 16:00 COFFEE and CAKE
- 17:00 17:15 Axel Pelster (Kaiserslautern Germany) Welcome and Opening

Ernst Dreisigacker (Hanau – Germany) About the Wilhelm and Else Heraeus Foundation

- Session 1 Turbulence
- 17:15 18:00 Vanderlei Bagnato (São Carlos Brazil)

New experiments in the investigation of quantum turbulence in a trapped superfluid

- 18:00 18:45 Makoto Tsubota (Osaka Japan)
 Quantum hydrodynamics and turbulence in atomic Bose-Einstein condensates
- from 19:00 HERAEUS DINNER (cold & warm buffet, free beverages)

Wednesday, 17 December 2014

- 08:00 BREAKFAST
- Session 2 Hybrid systems
- 09:00 09:45 Artur Widera (Kaiserslautern Germany) Immersing single atoms in quantum gases
- 09:45 10:30 Tilman Pfau (Stuttgart Germany) Single charges in a quantum gas
- 10:30 11:00 COFFEE BREAK
- 11:00 11:45 Christophe Salomon (Paris France)
 - A mixture of Bose and Fermi superfluids

Wednesday, 17 December 2014

Session 3	Special invited talk
11:45 – 12:30	Yonko Millev (Ridge – USA)
	Physical Review Letters: Raising the bar
12:30 – 12:40	Conference Photo
12:40	LUNCH
Session 4	Dipolar gases
14:00 – 14:45	Francesca Ferlaino (Innsbruck – Austria)
	Dipolar physics with ultracold fermionic magnets
14:45 – 15:30	Silke Ospelkaus (Hannover – Germany)
	Towards dipolar quantum many-body physics with ultracold polar molecules
15:30 – 16:00	COFFEE BREAK
16:00 – 19:00	Plenary Poster Flash Presentations
19:00	DINNER
20:00 - 22:00	Poster Session I

Thursday, 18 December 2014

08:00 BREAKFAST

Session 4 Disorder

09:00 – 09:45 Vincent Josse (Palaiseau – France)

Weak and Anderson localization of ultracold atoms

- 09:45 10:30 Markus Holzmann (Grenoble France) Superfluid and transport properties of disordered Bose gases in two dimensions
- 10:30 11:00 COFFEE BREAK
- 11:00 11:45 Boris Svistunov (Amherst USA)

Weak-link scenario of strong-disorder criticality in one dimensional superfluids

11:45 – 12:30 Hans Kroha (Bonn – Germany)

Many-body Anderson localization of strongly interacting Bose-Einstein condensates on disordered lattices

12:30 *LUNCH*

Thursday, 18 December 2014

Session 5 Contributed talks

- 14:00 14:30 Ernst Rasel (Hannover Germany) BEC interferometry
- 14:30 15:00 Gerhard Birkl (Darmstadt Germany) Coherent matter wave dynamics of BECs for atom interferometry and ATOMTRONICS guantum devices
- 15:00 15:30 Catherine Klauss (Boulder USA) The degenerate unitary Bose gas
- 15:30 16:00 Antun Balaž (Belgrade Serbia) Controlling BEC properties via disorder and driving
- 16:00 16:30 COFFEE BREAK
- 16:30 17:00 Anna Minguzzi (Grenoble France)

Persistent currents and macroscopic superpositions of current states for interacting bosons on a ring with a gauge field

17:00 – 17:30 Tim Langen (Boulder – USA)

Trapping and cooling of polar hydroxyl molecules

17:30 – 18:00 Jeroen Devreese (Antwerpen – Belgium)

Effects of spin-orbit coupling on the Berezinskii-Kosterlitz-Thouless transition and the vortex-antivortex structure in a 2D Fermi gas

18:00 – 18:30 Xue-Feng Zhang (Kaiserslautern – Germany)

Exotic phenomena on the Kagome lattice

18:30 *DINNER*

Session 6 Evening talk

20:00 – 21:00 Immanuel Bloch (Garching – Germany)

From topological Bloch bands to long-range interacting Rydberg gases - New frontiers for ultracold atoms

Friday, 19 December 2014

08:00	BREAKFAST
00.00	

- Session 7 Artificial gauge fields
- 09:00 09:45 Ian Spielman (Gaithersburg USA) Large artificial magnetic fields in synthetic dimensions
- 09:45 10:30 Chris Greene (West Lafayette USA) Theoretical developments with Rashba spin-orbit coupled systems and novel confinement-induced resonance geometries
- 10:30 11:00 COFFEE BREAK
- 11:00 11:45 Klaus Sengstock (Hamburg Germany)

Magnetism with and without magnetism: Different regimes of magnetic interactions in quantum gases

- Session 8 Non-equilibrium
- 11:45 12:30 André Eckardt (Dresden Germany)

Odd Bose condensation in non-equilibrium steady states

- 12:30 LUNCH
- 14:00 19:00 Excursion to medieval Christmas market in Siegburg
- 19:00 *DINNER*
- 20:00 22:00 Poster Session II

Saturday, 20 December 2014

08:00 BREAKFAST

- Session 9 Lower dimensions
- 09:00 09:45 Susanne Viefers (Oslo Norway)

Rotational properties of two-component Bose gases in the lowest Landau level

- 09:45 10:30 Michael Köhl (Bonn Germany) Two-dimensional Fermi gases
- 10:30 11:00 COFFEE BREAK
- 11:00 11:45 Matteo Rizzi (Mainz Germany)

Strongly correlated states of trapped ultracold fermions in a U(2) gauge potential

- Session 10 Optical Lattices
- 11:45 12:30 Ippei Danshita (Kyoto Japan)

Quantum tricriticality and heavy solitary waves of binary Bose mixtures in optical lattices

- 12:30 12:40 Carlos Sá de Melo (Atlanta USA) Concluding remarks and Poster Awards
- 12:40 *LUNCH*

End of the seminar and departure