

Program

Monday, 6 July 2015

10:00 – 18:00 Registration

12:15 *LUNCH*

13:30 – 13:45 Wilhelm Zwerger

Welcome and opening

13:45 – 14:00 Ernst Dreisigacker

About the Wilhelm und Else Heraeus Foundation

14:00 – 14:45 Doerte Blume

The large two-body s-wave scattering length limit: Bose droplets with Efimov character

14:45 – 15:30 Selim Jochim

Ultracold Fermions in a periodic potential: A bottom-up approach

15:30 – 16:15 Nikolaj Zinner

Magnetism and dynamics in strongly interacting one-dimensional systems

16:15 - 16:45 *COFFEE BREAK*

16:45 – 17:30 Brian P. Anderson

Two-dimensional quantum turbulence and Vortex dynamics in BECs

17:30 – 18:15 Thomas Gasenzer

Universal dynamics and non-thermal fixed points in ultracold gases

18:15 – 18:30 **Conference Photo** (in front of the Physikzentrum)

18:30 *DINNER*

20:00 Georgi Dvali

Black hole physics in Cold Atoms

Program

Tuesday, 7 July 2015

- 08:00 *BREAKFAST*
- 09:00 – 09:45 Rudolf Grimm **Fast dynamics of impurities in a Fermi sea**
- 09:45 – 10:30 Dean Lee **Ab initio lattice results for Fermi polarons in two and three dimensions**
- 10:30 – 10:50 *COFFEE BREAK*
- 10:50 – 11:35 Jörg Schmiedmayer **On solving a many body quantum system by experiment**
- 11:35 – 12:20 Eugene Demler **Nonequilibrium dynamics of fermions**
- 12:20 *LUNCH*
- 14:00 - 14:45 Martin Zwierlein **Cascade of solitonic excitations in a strongly interacting Fermi gas**
- 14:45 – 15:30 Félix Werner **Can one sum all Feynman diagrams to the resonant Fermi gas?**
- 15:30 – 16:00 *COFFEE BREAK*
- 16:00 – 17:00 **Free Discussion**
- 17:00 – 19:00 **Poster Session**
- 19:00 *HERAEUS DINNER*
(cold & warm buffet, free beverages)

Program

Wednesday, 8 July 2015

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Dam Thanh Son	Is the composite fermion a Dirac particle
09:45 – 10:30	Achim Schwenk	Cold atoms and neutrons
10:30 – 10:50	<i>COFFEE BREAK</i>	
10:50 – 11:35	Eva Kuhnle	Efimov physics in an ultracold Bose-Fermi mixture of ^{133}Cs and ^6Li
11:35 – 12:20	Eric Braaten	Association and dissociation of universal dimers and cooper pairs by an oscillating magnetic field
12:20	<i>LUNCH</i>	
14:00 – 14:45	Uwe-Jens Wiese	Atomic quantum simulation of Abelian and non-Abelian Gauge theories
14:45 – 15:30	Corinna Kollath	Unconventional dynamics in dissipative ultracold atomic gases
15:30 – 16:15	Sebastian Diehl	Universal phenomena in driven open quantum systems
16:15 – 16:45	<i>COFFEE BREAK</i>	
16:45 – 19:00	Free Discussion	
19:00	<i>DINNER</i>	

Program

Thursday, 9 July 2015

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	John E. Thomas	3D hydrodynamics and quasi-2D thermodynamics in strongly correlated Fermi gases
09:45 – 10:30	Thomas Schaefer	Conformal and non-conformal fluids dynamics
10:30 – 10:50	<i>COFFEE BREAK</i>	
10:50 – 11:35	Michael Köhl	Fermionic atoms in optical lattices
11:35 – 12:20	Yusuke Nishida	Novel few-body universality and many-body crossover physics
12:20 – 12:30		Workshop conclusion
12:30	<i>LUNCH</i>	

End of the seminar and FAREWELL COFFEE / Departure