

# Annual Retreat of the SFB/TR 49, Alzey, September 15 - 16, 2011

## Programme

### Thursday, September 15, 2011

<b>1. Ultracold Gases (1) &amp; Cold Ion Crystals</b>		
10:30 (5)	Michael Lang	<i>Welcome</i>
10:35 (12+8)	Giovanni Barontini (A9)	<i>Correlations in ultracold bosonic gases</i>
10:55 (12+8)	F. Schmidt-Kaler (A10)	<i>Interacting Spins in Ion Crystals</i>
11:15 (12+8)	Nicholas Sedlmayr (A11)	<i>Non-Hermitian Particle Injection into a Chain</i>
11:35 (10)	<b>Break</b>	

<b>2. Magnon Gases</b>		
11:45 (12+8)	Oleksandr Serha (A7)	<i>Influence of a photon field on temporal dynamics of Bose-Einstein magnon condensate</i>
12:05 (12+8)	Peter Kopietz (A8)	<i>Non-equilibrium time evolution of bosons from the functional renormalization group</i>

12:25 (30)	<b>Mentoring Treffen</b>	
12:55 (65)	<b>Lunch</b>	

<b>3. Quantum Spin Systems</b>		
14:00 (12+8)	Bernd Wolf (B1)	<i>Ultrasonic investigations near the B-induced quantum critical point of the triangular-lattice antiferromagnet <math>\text{Cs}_2\text{CuCl}_4</math></i>
14:20 (12+8)	Harald Jeschke (B2)	<i>Recent progress in studies of one- and two-dimensional charge transfer salts</i>
14:40 (12+8)	Sebastian Eggert (B3)	<i>Understanding phase transitions in frustrated anisotropic antiferromagnets</i>
15:00 (20)	<b>Coffee Break</b>	
15:20 (12+8)	Franz Ritter (B4)	<i>Tunable quantum critical materials</i>
15:40 (12+8)	Yulia Borozdina (B5)	<i>Organic Biradicals for Quantum Magnets</i>
16:00 (15)	<b>Break</b>	

16:15 (45)	<b>Poster Flash Presentations</b>
17:00 (15)	<b>Break</b>
17:15 (90)	<b>Mitgliederversammlung</b>
18:45 (15)	<b>Break</b>
19:00 (45)	<b>Dinner</b>
19:45	<b>Poster Session</b>

### Friday, September 16, 2011

7:30 – 8:45	<b>Breakfast</b>
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<b>4. Ultracold Gases (2)</b>		
8:45 (12+8)	Daniel Cocks, Bernd Schmidt (A3)	<i>Inhomogeneous quantum phases of ultracold fermions with strong correlations</i>
9:05 (12+8)	Fleischhauer (A5)	<i>Dynamics in 1D lattice models</i>
9:25 (12+8)	Blümer (A6)	<i>Double occupancy as a universal probe for antiferromagnetic correlations and entropy in cold fermions on optical lattices</i>
9:45 (10)	<b>Break</b>	

<b>5. Charge-Transfer Salts</b>		
9:55 (12+8)	Rudra Sekhar Manna (B6)	<i>Field-induced thermal expansion in the spin-liquid candidate <math>\kappa</math>-(BEDT-TTF)<sub>2</sub>Cu<sub>2</sub>(CN)<sub>3</sub></i>
10:15 (12+8)	Luca Tocchio (B7)	<i>Renormalized mean-field theory and variational Monte-Carlo studies for organic superconductors</i>
10:35 (12+8)	Stefan Mathias (B8)	<i>Ultrafast photo-induced phase transitions in TiSe<sub>2</sub> and a BEDT-TTF based organic salt</i>
10:55 (20)	<b>Coffee Break</b>	
11:15 (12+8)	Milan Rudloff (B9)	<i>New charge-transfer systems - Structure and electrical properties</i>
11:35 (12+8)	Dennis Chercka (B10)	<i>New Donors and Acceptors for Charge Transfer Complexes</i>

11:55 (12+8)	Robert Rommel (B11)	<i>Low-frequency charge-carrier dynamics in quasi-2D organic conductors</i>
12:15 (12+8)	Sandra Perkert (B12)	<i>Investigation of tetramethoxypyrene-tetracyanoquinodimethan with scanning tunneling microscopy and spectroscopy</i>
12:35 (10)	<b>Break</b>	
12:45	<b>Lunch</b>	