

11th Annual Retreat of the SFB/TR 49, Leonardo Hotel, Heidelberg-Walldorf, September 21 – 22, 2017

Programme

Thursday, September 21, 2017

1. Charge-Transfer Salts		M. Lang / M. Huth
09:45 (5)	Michael Lang	<i>Welcome</i>
09:50 (13+7)	Kira Riedl/Ying Li (B2)	<i>Ab initio determination of spin Hamiltonians beyond Heisenberg: The kappa-(ET)₂X family / Nature of optical excitations in the frustrated Kagome compound Herbertsmithite</i>
10:10 (13+7)	Elena Gati (B6)	<i>Electronically-driven ferroelectricity in the quasi-two dimensional organic charge-transfer salt κ-(BEDT-TTF)₂Hg(SCN)₂Cl</i>
10:30 (13+7)	Sergey Babenkov (B8)	<i>Perspectives for 3D band mapping of organic semiconductor thin films</i>
10:50 (20)	Coffee Break	
11:10 (13+7)	Lukas Keller (B9)	<i>Controlled magnetic frustration in 3D nanostructures</i>
11:30 (13+7)	Jens Müller (B11)	<i>Charge carrier dynamics in organic charge-transfer salts studied by fluctuation spectroscopy</i>
11:50 (13+7)	Hans-Joachim Elmers (B12)	<i>Spectromicroscopy of in-situ cleaved κ-(BEDT-TTF)₂X organic superconductors</i>
12:10 (65)	Lunch	

2. Quantum Spin Systems		C. Krellner
13:15 (13+7)	Lars Postulka (B1)	<i>Field-induced ordering in a weakly coupled spin-dimer system consisting of imino-nitroxide stable radicals</i>
13:35 (13+7)	Sebastian Eggert (B3)	<i>The dynamic structure factor in impurity doped spin chains</i>
13:55 (13+7)	Pascal Pupal (B4)	<i>Single crystal growth of Cu based quantum spin systems</i>
14:15 (13+7)	Martin Baumgarten (B5)	<i>Organic biradical networks</i>
14:35 (13+7)	Stephen Winter (B13)	<i>Breakdown of magnons in α-RuCl₃</i>
14:55 (15)	Break	

15:10 (35)	Poster Flash Presentations	
15:45 (30)	Coffee Break	

16:15 (90)	Mentoring (1+2)
17:45 (30)	Break

18:15 (75)	Mitgliederversammlung
19:30 (45)	Dinner

20:15	Poster Session & Mentoring (3)
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Friday, September 22, 2017

until 09:00	Breakfast
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3. Magnon Gases	A. Widera
09:00 (13+7) Oleksandr Serha (A7)	<i>Non-local measurements of a supercurrent spin transport in a room temperature Bose-Einstein magnon condensate</i>
09:20 (13+7) Peter Kopietz (A8)	<i>Magnon condensation and quantum spins in low dimensions</i>

4. Ultracold Gases & Cold Ion Crystals	F. Schmidt-Kaler / S. Eggert
09:40 (13+7) Arya Dhar (A3)	<i>Quench dynamics of interacting bosonic systems</i>
10:00 (13+7) Sebastian Eggert (A5)	<i>Large scale numerical simulations for the dimensional crossover</i>
10:20 (30)	Coffee Break
10:50 (13+7) Herwig Ott (A9)	<i>An optical Feshbach resonance with Rydberg molecules</i>
11:10 (13+7) Ferdinand Schmidt-Kaler (A10)	<i>Spin-motion coupling in planar ion crystals</i>
11:30 (13+7) Artur Widera (A12)	<i>Spin dynamics of individual neutral impurities coupled to a Bose-Einstein condensate</i>
11:50 (5) Michael Lang	<i>Concluding remarks</i>
11:55 (65)	Lunch

13:00 (45)	Mentoring (4)
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