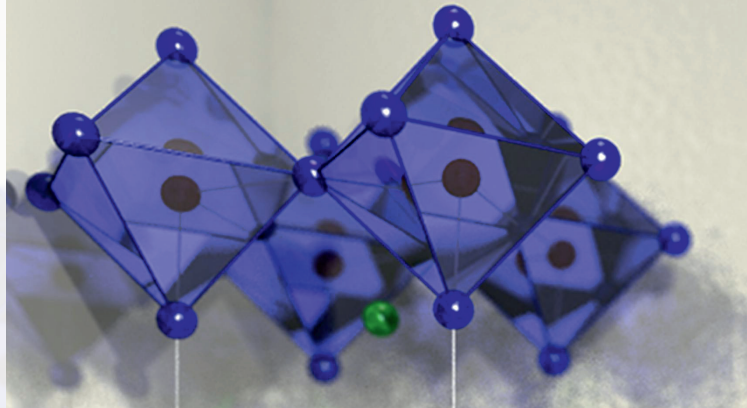


Topics:

New materials
Multiferroics
Superconductors
Skyrmions
Surface physics
Topological insulators

Invited Participants

Dionys **Baeriswyl**, Universite de Fribourg
Eva **Benckiser**, Max Planck Institute for
Solid State Research
Stefan **Blügel**, Forschungszentrum Jülich
Bernd **Büchner**, IFW Dresden
Martin **Dressel**, University of Stuttgart
Manfred **Fiebig**, ETH Zurich
Rudolf **Gross**, TU Munich
Maurits **Haverkort**, University of British Columbia
Michael **Lang**, Goethe-University Frankfurt
Michael **Loewenhaupt**, TU Dresden
Angela **Möller**, University of Houston
Christian **Pfleiderer**, TU Munich
Christian **Schüssler-Langeheine**, Helmholtz-Zentrum
Berlin
Kai **Schmidt**, TU Dortmund
Hao **Tjeng**, Max Planck Institute for Chemical Physics
of Solids Dresden
Götz **Uhrig**, TU Dortmund
Dieter **Vollhardt**, University of Augsburg
Matthias **Vojta**, TU Dresden



Organizing Committee:

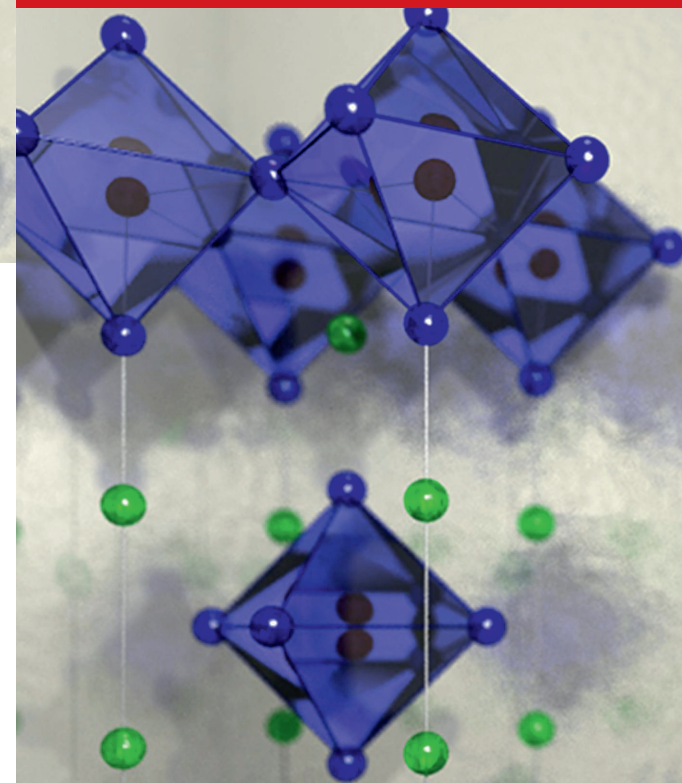
S. Trebst
M. Braden
T. Michely
P. Becker-Bohatý
A. Rosch
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**Strongly correlated transition metal
compounds – a farewell to CRC 608**



Cologne

March, 6.3.2013 – 8.3.2013

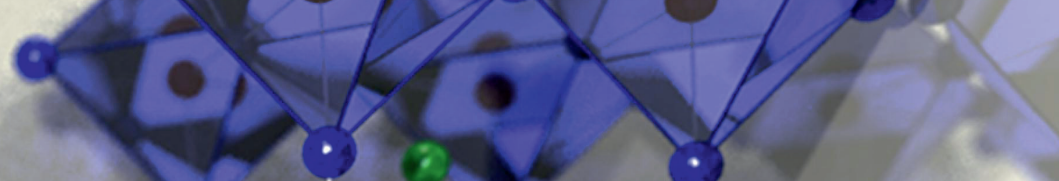
Hosted by

SFB 608

University of Cologne
Special Research Grant SFB608
Chairman: Prof. Dr. A. Rosch



Strongly correlated transition metal compounds – a farewell to CRC 608



Wednesday, March 6th

Programm Overview

All **talks** will take place in **HS II**.

The **poster session** will be hosted in the **Foyer**.

The **conference dinner** will take place at **Restaurant Riphahn** near the Neumarkt.

12:00 – 13:00	Welcome Coffee break
13:00 – 13:30	Daniel Khomskii Coupled spin and charge effect in frustrated Mott insulators
13:30 – 14:00	Bernd Büchner Tunable sub-THz ESR spectroscopy of complex transition metal oxides
14:00 – 14:30	Simon Trebst Spin-orbit assisted Mott physics in Iridates
14:30 – 15:00	Thomas Lorenz Magnetic Monopole Heat Transport in Spin-Ice
15:00 – 15:30	Coffee break
15:30 – 16:00	Gerd Meyer Symbiosis of Intermetallic and Salt: Rare-Earth Metal Cluster Complexes with Endohedral Transition Metal Atoms
16:00 – 16:30	Markus Grüninger Magnetic and orbital excitations studied by optics and RIXS
16:30 – 17:00	Ralf Bulla Kondo correlations in real space
17:00 – 17:30	Götz Uhrig Dynamic Transitions in Interaction Quenches
17:30 – 20:00	Poster session

Thursday, March 7th

09:00 – 09:30	Manfred Fiebig Unusual Manifestations of Ferroelectric Order in Multiferroics
09:30 – 10:00	Joachim Hemberger Dynamics near the multiferroic phase transition
10:00 – 10:30	Petra Becker-Bohaty Magnetoelectric and multiferroic materials
10:30 – 11:00	Coffee break
11:00 – 11:30	Hao Tjeng Fascinating materials and thin films: Cologne youngsters' recent results at the Max Planck in Dresden
11:30 – 12:00	Paul van Loosdrecht Dynamic heat transport shining light on phonon-magnon interactions in low dimensional quantum magnets
12:00 – 12:30	Christian Schüssler-Langheine Time-resolved x-ray diffraction from complex materials
12:30 – 14:00	Lunch
14:00 – 14:30	Matthias Vojta Weakly doped cuprates: Fractionalized Fermi liquids?
14:30 – 15:00	Rudolf Gross Fermi surfaces in electron-doped cuprate superconductors
15:00 – 15:30	Hans Kroha Strong correlations in inhomogeneous quantum systems
15:30 – 16:00	Coffee break
16:00 – 16:30	Dieter Vollhardt Electronic Correlations and Structural Stability
16:30 – 17:00	Markus Braden Stripe-like ordering of charges, orbitals and spins in layered manganites
17:00 – 17:30	Angela Möller Magnetic Properties and Lattice Dynamics of Triangular and Honeycomb Lattices
19:00 – 21:30	Conference dinner Dinner speeches: Axel Freimuth, Markus Braden

Friday, March 8th

09:00 – 09:30	Maurits Haverkort Spin orbit entanglement in metals; Sr ₂ RuO ₄ and Bi ₂ Se ₃
09:30 – 10:00	Lars Fritz Interaction effects on almost flat surface bands in topological insulators
10:00 – 10:30	Carsten Busse EuO on graphene: Growth, magnetic properties, and the surface state
10:30 – 11:00	Coffee break
11:00 – 11:30	Stefan Blügel Topologically protected Spin Textures at Metal Surfaces
11:30 – 12:00	Thomas Nattermann A model for elasticity and pinning of domain walls in helical magnets
12:00 – 12:30	Christian Pfleiderer Skyrmions
12:30 – 13:00	Achim Rosch Dynamics of magnetic whirls in chiral magnets
13:00	Farewell