

Programme



27. Workshop

on

Novel materials and superconductivity

PLANNERALM

11. - 18. Feb. 2012

Sponsored by TU Wien

Location:	Planneralm , Ennstal (Steiermark) A-8953 Donnersbach
	Tel.: [+43] (3683) 3167 or 3168 international
	Fax: [+43] (3683) 31674 or 31684 international
	(03683) 3167 or 3168 within Austria
Date:	Arrival: Saturday, February 11, 2012
	Departure: Saturday, February 18, 2012

Chairman: **Univ.Prof. Karlheinz Schwarz**
Institut für Materialchemie, Technische Universität Wien
A-1060 Vienna, Getreidemarkt 9/165-TC, Austria
Telephone: +43-1-58801-Ext. 15670 Fax: +43-1-58801-15698
E-mail: kschwarz@theochem.tuwien.ac.at

Programme committee:

C.Ambrosch-Draxl B.Batlogg S.Bühler-Paschen
P.Knoll F.Kubel W.Lang
K.Schwarz P.Weinberger

World Wide Web: www.wien2k.at/theochem/planneralm/

Evening sessions

Sunday, Feb.12, 2012 (Chair: R.Hackl)

- 19:00 Helge Rosner (MPI CPfS Dresden, Germany):
*New perspectives of quantum magnets:
A joint theoretical and experimental study*
- 19:30 Xavier Rocquefelte (CNRS Nantes, France):
Modelling of organic-inorganic hybrid materials
- 19:40 ~~20:00~~ Hermann Kronberger (TU Wien):
Mechanistic aspects of surface structuring via electrodeposition

Monday, Feb.13, 2012 (Chair: K. Held)

- 19:00 Johannes Ferber (Univ. Frankfurt a Main, Germany):
*Effects of correlation in an LDA+DMFT framework:
The iron pnictides LiFeAs and LiFeP*
- 19:30 Markus Aichhorn (TU Graz, Austria):
From 3d to 4d to 5d: Surprising behavior of transition metal oxides
- 20:00 Andrei Pimenov (TU Wien):
Terahertz properties of the Fe(SeTe) superconductor

Tuesday, Feb.14, 2012 (Chair: A. Pimenov)

- 19:00 Philip Hansmann (TU Wien):
Adatom systems on the silicon 111-surface: Mott or not ?
- 19:40 Wolfgang Lang (Univ. Wien, Austria):
Vortex motion in YBCO with intrinsic and artificial order modulations

Wednesday, Feb15, 2012 (Chair: P. Blaha)

- 19:00 **Micro Poster Presentation:**
*Each poster can be briefly presented in 3 minutes
PowerPoint presentations need to be arranged with the organizer.*
- 19:30 **POSTER SESSION**

Thursday, Feb.16, 2012 (Chair: X Rocquefelte)

- 19:00 Karsten Held (TU Wien):
LDA+DMFT: From bulk to nanostructures
- 19:30 Peter Weinberger (TU Wien):
*Spin transitions above room temperature
A synthetic breakthrough in tetrazole ligand synthesis*
- 20:00 Mohammad Rezek (Palestine Techn. Univ):
Electronic structure and phase transition in $Sc_xAl_{1-x}N$ alloys

Friday, Feb.17, 2012 (Chair: H. Rosner)

- 19:00 Aliaksei Charnukha (MPI Stuttgart, Germany):
Optical conductivity of 122 iron pnictides
- 19:40 Elias Assmann (TU Wien):
Bulk and interface properties of Lanthanum vanadate
- B₂Fe₂As₂ parent compounds = AF
doping K (holes), Co (electron)
SrTiO₃ /
LaVO₃*

Posters

- Johannes **Bintinger**, E.Horkel (TU Wien)
Stericallytuned triarylaminines and oligothiophene derivatives as building blocks for novel organic electronic materials: synthesis and characterization
- Tzvetanka **Boiadjieva**, H.Kronberger, T.Szeck, M.Monev, T.Lavric (CEST, Wr.Neustadt)
Novel Zn-alloy: Alloy deposition for corrosion protection in stage of industrial trials
- Hans-Martin **Eiter**, M.Lavagnini, R.Roßner, R.Hackl, E.A.Nowadnick, A.F.Kemper, T.P.Devereaux, J.-H.Chu, J.G.Analytis, I.R.Fisher (WMI, Garching, Germany),
High pressure study of charge density waves in $ErTe_3$
- Jürgen **Fleig**, T.Tröml (TU Wien)
Ion transport in lead zirconate titanate
- Jakob **Kanter**, P.Moll, F.Ronning, E.Bauer, B.Batlogg (ETH Zürich, Switzerland)
Electric transport measurements on micro-structured $CePt_2In_7$ single crystals in a diamond anvil cell
- F.Kretzschmar, A.Baum, B.Muschler, Rudi **Hackl**, J.-H.Chu, J.Analytis, I.R.Fisher (Walther-Meissner-Institut, Garching, Germany)
Pairing in FeAs systems
- Christian **Knoll**, D. Müller, P.Weinberger, B.Stöger (TU Wien)
New tetrazole compounds as asymmetric ligands for mixed iron(II) lanthanide complexes
- Stefan **Lebernegg**, M.Schmitt, O.Janson, A.Tsirlin, H.Rosner (MPI CPfS Dresden, Germany)
Magnetism of $Cu(2+)$ chain-compounds - how covalency matters
- G.Tondi, A.Petutschningg, M.Demker, Maurizio **Musso** (Univ.Salzburg)
Tannin based organic foams and their characterization by Raman spectroscopy
- Anna **Pimenov**, Ch.Kant, V.Tsurkan, A.Loidl, L.Svistov, A.Pimenov (TU Wien)
Synthesis and magnetic dynamics of multiferroic chromates
- Franz **Renz**, G.Vanko, P.Homenya, R.Sadaat, N.Zoltan, S.Houtari (Univ.Hannover)
Hard x-ray induced thermal hysteresis
- F.Renz, G.Vanko, P.Homenya, R.Sadaat, N.Zoltan, Yakup **Baran** (Univ.Hannover)
Hard x-ray induced excited spin state trapping
- F.Renz, G.Vanko, P.**Homenya**, R.Sadaat, N.Zoltan, S.Houtari (Univ.Hannover)
Strong field hard x-ray induced excited spin state trapping
- N.Hassan, Julia **Stelzl**, P.Weinberger, G.Molnar, A.Bousseksou, F.Kubel, K.Mereiter, R.Boca, W.Linert (TU Wien)
Spectroscopic, structural and magnetic investigations of iron(II) complexes based on 1-isopropyl- and 1-isobutyl-substituted tetrazole ligands
- Julia **Weber**, F.Shahzad, K.Nadeem, H.Krenn, P.Knoll, K.Ettinger, I.Letofsky-Papst (Univ.Graz)
Magnetic properties of NiO nano-particles