

International Max Planck Research School
“Dynamical Processes in Atoms, Molecules and Solids”

Fall Meeting – September 26 to 28, 2007

NaturFreundehaus Zirkelstein
Am Zirkelstein 109b
01814 Reinhardtsdorf-Schöna, Sächsische Schweiz
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P R O G R A M

Wednesday, September 26

- 10:30 Departure from Dresden Hauptbahnhof
S-train 1, platform 18
- 11:29 Arrival at Schöna, 15 min uphill walk to the NaturFreundehaus Zirkelstein
- 12:15 LUNCH AT NATURFREUNDEHAUS
- 13:20 - 13:30 WELCOME: Ulf Saalman
- 13:30 - 14:00 **Silvio Baier**
Introduction to the interaction of atoms and molecules with ultrashort intense laser pulses
- 14:00 - 14:30 **Katrin Koch**
The electrical field gradient (EFG)
- 14:30 - 15:00 **Annu Thomas**
The control of crystal growth of Calcium oxalates - $\text{CaC}_2\text{O}_{4.x}(\text{H}_2\text{O})$ -PAA- a model system for Biominerals
- 15:00 - 15:30 **Wojciech Miiller**
tba
- 15:30 - 16:00 COFFEE BREAK
- 16:00 - 16:30 **Igor Baburin**
Crystal structure prediction - Theoretical approaches and applications
- 16:30 - 17:00 **Wenxu Zhang**
The Band Jahn-Teller effect in Rh_2MnGe
- 17:00 - 17:30 **Pawel Wielgus**
Computational Chemistry - Gas-phase calculations for small inorganic compounds
- 18:00 DINNER

Thursday, October 27

- 09:00 - 09:30 **Liran Wang**
A miniature capacitance dilatometer for thermal expansion and magnetostriction measurements
- 09:30 - 10:00 **Cristina Bran**
AF coupling of [Co/Pt]Ru with perpendicular anisotropy
- 10:00 - 10:30 **Iona Popa**
Electrochemistry and magnetism on Li-doped compounds
- 10:30 - 11:00 COFFEE BREAK
- 11:00 - 11:30 **Dmytro Inosov**
Waterfalls in cuprates
- 11:30 - 12:00 **Yiu Wai Lai**
Magnetic shape memory materials
- 12:00 LUNCH
- 13:30 TREKKING TOUR
- 18:00 DINNER AT NATURFREUNDEHAUS
- 19:30 - 20:00 **Alexei Mikaberidze**
Atomic clusters in strong laser fields
- 20:00 - 20:30 **Andrej Lyubonko**
How plasma can be ultracold?

Friday, September 28

- 09:00 - 09:30 **Ionut Georgescu**
tba
- 09:30 - 10:00 **Alexander Croy**
tba
- 10:00 - 10:30 **Alexander Mai**
Renormalization of many-particle Hamiltonians using unitary transformations
- 10:30 - 11:00 COFFEE BREAK
- 10:00 - 10:30 **Grzegorz Urbanik**
Scanning tunneling microscopy on transition metal oxides
- 11:45 - 12:30 **Christian Kramberger**
Spectroscopy on electronic one dimensionality and intrinsic anisotropy in carbon nanotubes
- 12:30 LUNCH
- DEPARTURE
S-trains from Schöna to Dresden depart hourly *:56