## International Max Planck Research School for Dynamical Processes in Atoms, Molecules, and Solids



## Meeting of the Scientific Evaluation Committee Dresden – MPIPKS – July 4, 2008

9:00- 9:30	<b>Welcome and Introduction</b> [seminar room 1+2]
	9:00 Prof. JM Rost (chairman)
	9:15 Dr. U Saalmann (coordinator)
9:30 – 12:00	<b>Talks by IMPRS students</b> [seminar room $1+2$ ]
	9:30 Dmytro Inosov (IFW)  High-energy anomalies in the ARPES spectra of cuprates: Recent results
	9:55 Jan Roden (PKS)  Absorption and energy transfer of molecular aggregates
10:20 – 10:45	Coffee break
	10:45 Marek Paściak (Wrocław) Local structure of ferroic materials: Diffuse scattering experiments and atomistic simulations
	11:10 Yiu Wai Lai (IFW) Actuation dynamics of magnetic shape memory materials
	11:35 Werner Koch (TUD)  Non-Markovian dissipative semiclassical dynamics
12:00 – 13:00	Lunch break
13:00 – 15:00	Poster session [2nd floor, see list on the backside]
15:00 – 16:00	Meeting with IMPRS students [seminar room 1D1]
16:00 – 16:45	Meeting with faculty members [seminar room 1D1
16:45 17:30	Internal session of the evaluation committee

## **Posters** [numbered poster walls are in the 2nd floor]

- (1) Mr. Ajit Kumar Patra Intrinsic anisotropies of epitaxial PrCo<sub>5</sub> films
- (2) Mr. Alexander Croy Time-resolved electron transport through quantum dot systems
- (3) Mr. Alexander Mai New renormalization approach to the periodic Anderson model
- (4) Mr. Alexei Mikaberidze Ionization of Xe@He core-shell clusters in strong laser pulses
- (5) Mr. Alexey Alfonsov Origin of a spin-state polaron in lightly hole-doped LaCoO<sub>3</sub>
- (6) Ms. Andreia Ioana Popa Electrochemically doped oxides
- (7) Mr. Andrey Lyubonko Dynamics of ultracold plasmas
- (8) Ms. Annu Thomas Biomimetic growth and morphology control of calcium oxalates
- (9) Mr. Ansgar Pernice Counting statistics of quantum transport
- (10) Ms. Anupama Parameswaran Magnetic properties of molecular nanostructures
- (11) Ms. Aroon O'Brien Frustrated lattice structures with charge degrees of freedom
- (12) Ms. Beate Bergk de Haas-van Alphen investigations on rare-earth transition-metal compounds
- (13) Mr. Christian Gnodtke Imaging of atomic clusters with femtosecond X-FEL pulses
- (14) Mr. Christoph-Marian Goletz Semiclassical dynamics in open quantum systems
- (15) Ms. Constanta Cristina Bran Domain structure and magnetization processes of complex magnetic multilayers
- (16) Mr. Dmytro Inosov Waterfalls in Cuprates
- (17) Ms. Fei Tang Inelastic neutron scattering on R<sub>2</sub>PdSi<sub>3</sub> compounds
- (18) Mr. Grzegorz Urbanik Scanning tunneling microscopy and spectroscopy on selected 2D materials
- (19) Mr. Hugo Vieyra Resistivity and thermal conductivity measurements on heavy-fermion superconductors . . .
- (20) Mr. Igor Popov Structural, electronic, and transport properties of molybdenum chalcohalide structures
- (21) Mr. lonuţ Georgescu Rare-gas clusters in intense VUV laser fields
- (22) Mr. Ivan Liu Ultracold Rydberg atom in structured and disordered environments
- (23) Mr. Jan Handt Dynamics of molecules and clusters in intensive laser fields
- (24) Mr. Jan Heyda lon-specific interactions between halides and basic amino acids in water
- (25) Mr. Jan-Peter Ismer Spin dynamics in unconventional superconductors
- (26) Mr. Jan Roden Absorption and energy transfer of aggregates
- (27) Mr. Julius Helm Dynamics of open quantum systems: Decoherence and loss of entanglement
- (28) Ms. Katrin Koch Electric field gradient and chemical bonding in intermetallic gallides
- (29) Mr. Lars Bittrich Temporal flooding of regular islands
- (30) Mr. Le Duc Anh Electrons in actinides systems
- (31) Ms. Lena Simon Role of entanglement in open system dynamics
- (32) Ms. Liran Wang Coupling of structure and magnetism in multiferroic RFe<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub>
- (33) Mr. Martin Schlesinger Dissipation and decoherence in molecular systems
- (34) Mrs. Orkidia Zeneli Dynamic strain in epitaxial ferroic oxide films
- (35) Mr. Phan Van-Nham Valence transition in rare earth systems under high pressure
- (36) Mr. Ricardo Alberto Pinto Localized classical and quantum excitations in small networks . . .
- (37) Mr. Robert Vacha "Acidity" of the interface between water and hydrophobic media
- (38) Mr. Sigmund Heller Stochastic field equations for cold Bose gases
- (39) Mr. Silvio Baier Nonsequential double ionization of H<sub>2</sub> in intense laser pulses
- (40) Mr. Steffen Löck Dynamical tunneling in systems with a mixed phase space
- (41) Mr. Vardan Apinyan Emergence of energy scales and effective interactions in systems . . .
- (42) Mr. Volodymyr Zabolotnyy Investigation of renormalization effects in high temperature cuprate superconductors
- (43) Ms. Waltraut Wustmann Occupation probabilities of Floquet states in driven systems with a mixed phase space
- (44) Mr. Wenxu Zhang Magnetism, structure and their interactions
- (45) Mr. Werner Koch Semiclassical treatment of non-Markovian dissipative quantum dynamics
- (46) Mr. Wojciech Miiller Searching for new f-electron compounds with superconductivity or non-Fermi liquid behaviour
- (47) Mr. Yiu Wai Lai Actuation dynamics of magnetic shape memory materials