

International Max Planck Research School

Dynamical Processes in Atoms, Molecules, and Solids

IMPRS Retreat 2013, Parkhotel Margaretenhof, Sept. 25-27

Wed., Sept. 25th

12.00	Arrival
12.40-13.40	Lunch
13.40-13.55	WELCOME & Introduction of the participants

Chair: Mehrdad Baghery

14.00-14.20	Christoph Sträter Bloch Band Engineering in Optical Lattices
14.25-14.45	Pierfrancesco Di Cintio <i>Coulomb explosion of heterogeneous clusters</i>
14.50-15.10	Krishanu Roychowdhury Strongly correlated electrons on Kagome lattice: Interplay between charge and spin degrees of freedom
15.15-15.35	Ondrej Svoboda Solvation enhanced absorption of nitrate anion
15.40-16.10	Coffee

Chair: Michael Fischer

16.10-16.30	Elias Diesen Low energy photoelectrons in high intensity laser fields
16.35-16.55	Alejandro Santana
	Molecular Quantum Cellular Automata (m-QCA): an insight into unconventional computing

17.00-17.25	Jorge Rehn Orphan Spins on the Checkerboard Lattice
17.30-17.55	Josef Melcr <i>Development of two photon polarization microscopy into a protein</i> <i>structure tool</i>
18.00	Dinner
19.00	Social Program*

*Apart from usual mindgames, the hotel's 'Kegelbahn' can be used for a bowling tournament; Those who are exhausted after the scientific load of the day can also use the wellness-center of the hotel (the usage of the saunas is included)

Thu., Sept. 26th

Chair: Christoph Sträter

9.00-9.20	Karsten Leonhardt Exciton splitting through conical intersections
9.25-9.45	Darshan Joshi 1/d expansion for coupled dimer magnets: Paramagnetic phase
9.50-10.10	Manisha Pathak Nitridogermanates with Alkaline Earth Metals – Synthesis and characterization
10.15-10.35	Daniel Vorberg Generalized Bose-Einstein condensation into multiple states in driven-dissipative systems
10.40-11.10	Coffee

Chair: Ondrej Svoboda

11.10-11.30	Mehrdad Baghery Ionization of small clusters in strong laser pulses
11.35-11.55	Farzaneh Zamani Quantum Criticality in the Two-Channel pseudogap Anderson model

12.00-12.20	Stepan Timr Accurate determination of the orientation of a fluorescent dye in a model membrane: Interplay between molecular simulations and polarization microscopy
12.30-13.30	Lunch
13.30	Hiking tour to 'Pfaffenstein'
18.15	Dinner

Chair: Alejandro Santana

19.15-19.35	Abraham Camacho Revealing ultrafast dynamics with electron spectra
19.40-20.00	Thomas Lehmann <i>Conductance porperties of graphene nanoribbons</i>
20.00	Social get-together

Fri., Sept. 27th

Chair: Krishanu Roychowdhury

9.00-9.20	Max Buchholz Spin effects and Pauli principle in semiclassical electron dynamics
9.25-9.45	Alan Celestino Nano-scale rotor driven by single-electron tunneling
9.50-10.10	Sthitadhi Roy Rosen-Zener quenching of 1D hard-core boson chain
10.15-10.35	Belinda Kapidani <i>Out of equilibrium cooperative phenomena in Rydberg gases</i>
10.40-11.00	Coffee

Chair: Karsten Leonhardt

11.00-11.20	Lukas Sistik Floating Occupation Molecular Orbital – Complete Active Space Configuration Interaction Method: Fast and Reliable Alternative to CASSCF
11.25-11.45	Michael Fischer Non-adiabatic quantum molecular dynamics with trajectory surface hopping
11.50-12.10	Tsegabirhan Wendumu Optical excitation of MoS2 nanoparticles

12.15 Lunch

Departure: Bus towards Koenigstein leaves at 13.21 – We leave from the hotel to the bus stop at 13.00!

To Prague: Bus towards Bad Schandau leaves at 13.06 from the stop 'Gohrisch Schandauer Str.' (arrives 13.13 in Bad Schandau) direct train to Prague from Bad Schandau leaves at 13.38