

RTG 1570 Workshop in St. Oswald 2016: Program

Wednesday, Sep 21st

08:00	Individual departure from Regensburg	
10:00	Arrival in St. Oswald and coffee break	
10:30	Tobias Frank	Ab initio study of the optical gap in monolayer black phosphorus
11:00	Philipp Nagler	Interlayer excitons in van der Waals heterostructures
11:30	Dr. Gerd Plechinger	Trion fine structure and coupled spin-valley dynamics in monolayer tungsten disulfide
12:00	Lunch	
13:30	Dr. Magdalena Marganska	<u>Tutorial</u> : Carbon nanotubes in magnetic fields
14:30	Lars Milz	Topological superconducting phase diagram for superconducting carbon nanotubes
15:00	Stefan Blien	Optomechanics with carbon nanotubes
15:30	Christian Bäuml	Platinum-rhenium optical nano-antennas for surface enhanced Raman spectroscopy of suspended CNT
16:00	Coffee break	
16:30	Lisa Heße	Landau-quantized Dirac fermions in an optical cavity - signatures of superradiance
17:00	Philipp Reck	Quantum time mirrors with disorder, magnetic fields and solitons
17:30	Sonja Predin	The relation in the topology of entanglement and subsystem Hamiltonians of a topological superconductivity state
18:00	Dinner	
20:00	Meeting of professors and students	

Thursday, Sep 22nd

08:30	Dr. Jay Weymouth	<u>Tutorial</u> : Build your own AFM
09:30	Daniel Meurer	Higher harmonics in graphene
10:00	Philipp Scheurer	Different tip functionalizations in scanning probe microscopy
10:30	Coffee break	
11:00	Felix Hofmann	Molecular water lilies - Controlling position and orientation of molecules in a thin plastic film
11:30	Christa Genslein	Molecular interactions of graphene for bioanalytical applications based on plasmonic effects
12:00	Lunch	
13:30	Hiking	
19:00	Dinner	

Friday, Sep 23rd

09:00	Dr. Tyler Cocker	<u>Tutorial</u> : Tracking the ultrafast motion of a single molecule by femtosecond orbital imaging
10:00	Markus Huber	TBA
10:30	Coffee break	
11:00	Martin Drienovsky	Ballistic transport in density modulated graphene
11:30	Robin Huber	Preparation and characterisation of graphene nanomeshes
12:00	Andreas Sandner	Ballistic transport in graphene on 2D periodic bottomgates
12:30	Lunch	
14:00	Departure from St. Oswald	
