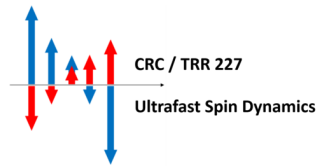


iRTG CRC/TRR 227 “Ultrafast Spin Dynamics”



Dynamics in Magnetic Systems 2024 – PhD Conference

08 – 11 April 2024 at Hotel Ostrov, Bohemian Switzerland, Czech Republic

Monday 08.04.2024	
Time	Topic
Arrival 12:00	Lunch + Check-In
14:00 – 15:00	James Taylor (Martin-Luther-Universität Halle-Wittenberg) - Imaging domains in antiferromagnets - a brief history, different techniques, and their use in understanding dynamics
15:00 – 15:30	Tobias Wagner - From Ferromagnetic Magnetostatics to Antiferromagnetic Topology: Antiferromagnetic Vortex States in NiO-Fe Nanostructures
15:30 – 16:00	Matteo Russo - Local Structure of Zirconium-based superconductors
16:00 – 16:30	Coffee Break
16:30 – 17:30	Chiara Cicarelli (University of Cambridge) - Extracting picosecond spin currents from antiferromagnets
17:30 – 18:00	Reza Rouzegar - Terahertz spin conductance spectroscopy
18:00 – 19:00	Bert Koopmans (Eindhoven University of Technology) - Femtospintronics, from fundamentals to application
19:00 – Open End	Dinner + Get-together

Tuesday 09.04.2024	
Time	Topic
	Breakfast
9:00 – 10:00	Olena Gomonay (Johannes Gutenberg-Universität Mainz) - Ultrafast magnetic dynamics with antiferro- and altermagnets
10:00 – 10:30	Max Mattern - Nucleation and domain growth during the laser-induced metamagnetic phase transition in FeRh identified by UXR
10:30 – 11:00	Oliver Busch - Simulation of steady-state and ultrafast transport of charge, spin, and orbital angular momenta
11:00 – 11:30	Coffee Break
11:30 – 12:30	Emmanuelle Jal (Sorbonne Université - online Talk) - Ultrafast Magnetic Dynamics unravelled thanks to Extreme Ultraviolet and Soft X-Ray pulses
12:30 – 13:00	Nava Antonio Guillermo - Probing the ultrafast demagnetization of ferrimagnetic thin films via THz emission spectroscopy
13:00 – 14:30	Lunch Break
14:30 – 15:30	Unai Atxitia (Instituto de Ciencia de Materiales de Madrid, Spain) - Progress on multiscale modelling of thermally driven ultrafast and deterministic reversal of magnetization in ferrimagnets upon femtosecond pulse photo-excitation
15:30 – 16:00	Kathrin Plass - Double Photoemission of C60 on SrTiO3(001) with pulsed laser radiation
16:00 – 19:00	Poster Session + Coffee Break
19:00	Dinner

Wednesday 10.04.2024	
Time	Topic
	Breakfast
09:00 – 10:00	Laurenz Rettig (Fritz-Haber-Institut Berlin) - Spins under the stroboscope - Ultrafast methods for magnetic materials
10:00 – 10:30	Hyein Jung - Ultrafast dynamics of different magnetic properties in a helical Heisenberg antiferromagnet
10:30 – 11:00	Jose Miguel Lendinez - Atomistic spin dynamics investigation of laser-induced ultra- fast magnetization switching in layered ferrimagnets
11:00 – 11:30	Coffee Break
11:30 – 12:30	Tobias Kampfrath (Freie Universität Berlin) - Ultrafast spintronics with terahertz electromagnetic pulses
12:30 – 13:00	Nikos Kanistras - Narrow band THz Frequency emission from Micropatterned THz emitters
13:00 – 14:00	Lunch Break
14:00 – 15:00	Kilian Lenz (Helmholtz-Zentrum Dresden-Rossendorf) - Magnetization Dynamics in Nanostructures probed by Ferromagnetic Resonance
15:00 – 19:00	Social Event – Hiking through the famous Tyssa Walls
19:00 – Open End	Dinner + Karaoke Time

Thursday 11.04.2024	
Time	Topic
	Breakfast
10:00 – 11:00	Uday Chandrasekhar (Fraunhofer Institute for Applied Optics and Precision Engineering IOF) - Quantum Communication: The path towards implementation
11:00 – 11:30	Coffee Break
11:30 – 12:30	Kelvin Yao (ASML) - From Academia to Industry – My experiences at ASML
12:30 – 14:00	Lunch + Departure