

MONDAY, 02 March 2020

Outward journey

- 08:00 Bus departure @ FU Berlin, Department of Physics (Arnimallee 14, 14195 Berlin)
 approx. 10:00 Bus departure @ ZOB Halle (Ernst-Kamieth-Straße, 06112 Halle)
 approx. 13:00 Arrival in Ostrov u Tisé
 13:00 - 14:50 *LUNCH & CHECK-IN*

Session 1.1

Chair: Sang-Eun Lee

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|---------------|---------------------|---|
| 14:50 - 15:00 | USPM Organization | Welcome & opening remarks |
| 15:00 - 15:40 | Wolf Widdra | NiO: Magnetic coupling and ultrafast electron dynamics at surfaces |
| 15:40 - 16:00 | Yannic Behovits | Ultrafast spin dynamics in antiferromagnetic Mn₂Au |
| 16:00 - 16:20 | <i>COFFEE BREAK</i> | |

Session 1.2

Chair: Yannic Behovits

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|---------------|----------------------|--|
| 16:20 - 17:20 | Tomáš Jungwirth | Antiferromagnetic spintronics |
| 17:20 - 17:40 | Bikash Das Mohapatra | Ultrafast electrical signals generation using fs-laser pulses |
| 17:40 - 18:00 | Discussion | |
| 19:00 - 20:30 | <i>DINNER</i> | |

Ice breaker session

- 20:30 - 22:00 Games, drinks & music

TUESDAY, 03 March 2020

8:00 - 9:00 *BREAKFAST*

Session 2.1

Chair: David Reiß

9:00 - 10:00	Bert Koopmans	Femto-magnetism meets spintronics: Towards integrated magneto-photonics
10:00 - 10:20	Reza Rouzegar	Spin caloritronics at THz frequencies
10:20 - 10:40	Sang-Eun Lee	Ultrafast dynamics of itinerant and localized magnetic moments in antiferromagnetic GdRh₂Si₂
10:40 - 11:00	<i>COFFEE BREAK</i>	

Session 2.2

Chair: Oliver Gueckstock

11:00 - 12:00	Alexey Kimel	Counter-intuitive magnetism of antiferromagnetically coupled spins
12:00 - 12:40	Clemens von Korff Schmising	Spin dependent carrier dynamics studied by transient absorption spectroscopy in the extreme ultraviolet spectral range
12:40 - 13:00	Discussion	
13:00 - 14:30	<i>LUNCH</i>	

Session 2.3

Chair: Dominik Schulz

14:30 - 15:30	Miguel Marques	Time-dependent density-functional theory: linear and non-linear regimes
15:30 - 15:50	Qizhi Li	Element specificity of transient extreme ultra-violet magnetic dichroism
15:50 - 16:10	<i>COFFEE BREAK</i>	

Session 2.4

Chair: Rouven Deyer

16:10 - 17:10	Michael Gensch	A (superradiant) THz-view on low energy excitations in matter
17:10 - 17:30	Discussion	
18:00 - 19:30	<i>DINNER</i>	

Session 2.5

19:30 - 22:00 Poster session

WEDNESDAY, 04 March 2020

8:00 - 9:00 *BREAKFAST*

Session 3.1

Chair: Reza Rouzegar

9:00 - 10:00	Bärbel Rethfeld	Describing non-equilibrium electron dynamics in itinerant ferromagnets
10:00 - 10:20	David Reiß	Theory of spin Hall magnetoresistance in the ac (THz) regime
10:20 - 10:40	Martin Borchert	Controlling of demagnetisation dynamics by DOS engineering

10:40 - 11:00 *COFFEE BREAK*

Session 3.2

Chair: Mathias Augstein

11:00 - 12:00	Matias Bargheer	Ultrafast x-ray diffraction of magnetic heterostructures - Strain as trigger and sensor of spin dynamics
12:00 - 12:20	Tim Amrhein	Ferro- and Antiferromagnetism in Dysprosium
12:20 - 12:40	Florian Jakobs	Thermally induced magnetic switching in GdFeCo using picosecond laser pulses - Experiment vs Theory

12:40 - 13:00 Discussion

13:00 - 14:30 *LUNCH*

Social event

14:30 - 17:30 Hiking tour to the Tisa walls or to Sněžník

Session 3.3

Chair: Sergey Trishin

17:30 - 18:10	Katharina Franke	Monolayers of MoS₂ on Au(111): electronic properties and their potential as decoupling layers
18:10 - 18:30	Wolfgang Hoppe	Fast screening of THz current pulses in heavy metal/ferromagnet bilayers
18:30 - 18:50	Denis Iagodin	Ultrafast dynamics in TMDCs probed by THz spectroscopy

19:00 - 20:30 *DINNER*

THURSDAY, 05 March 2020

8:00 - 9:00 *BREAKFAST*

Session 4.1

Chair: Maximilian Paleschke

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|---------------|-------------------------------------|---|
| 9:00 - 10:00 | Yves Acremann | Femtosecond spin transport |
| 10:00 - 10:20 | Tomás Perie de Barros | The importance of Hubbard U on laser induced demagnetization |
| 10:20 - 10:40 | Rahil Hosseinifar | Investigation of ultrafast toggle-switching and domain wall motion in GdFe |
| 10:40 - 11:10 | <i>COFFEE BREAK & CHECK-OUT</i> | |

Session 4.2

Chair: Dominic Lawrenz

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|---------------|-----------------------|---|
| 11:10 - 12:10 | Waldemar Töws | Many-body theory of ultrafast magnetization dynamics in ferromagnetic transition metals: Insights into mechanisms of angular-momentum transfer |
| 12:10 - 12:30 | Discussion / Feedback | |
| 12:30 - 12:45 | USPM Organization | Closing remarks |
| 13:00 - 14:30 | <i>LUNCH</i> | |

Return journey

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|---------------|----------------------------------|
| 14:30 | Bus departure from Ostrov u Tisé |
| approx. 17:15 | Arrival @ Hauptbahnhof Halle |
| approx. 19:15 | Arrival @ FU Berlin |

Do not forget to vote for the best poster presentation

Poster presentations

1	Mathias Augstein	Growth, Characterization and photoelectron spectroscopies on Fe/MgO(001) and Fe(001)
2	Thomas Blank	THz electric modulation of the magneto-optical Faraday effect
3	Jan Böhnke	Towards spin-resolved imaging in momentum microscopy for ultrafast spin dynamics
4	Liane Brandt	Exchange stiffness and damping of terahertz perpendicular standing spin waves in iron
5	Francisco Javier Carrion Ruiz	Spin, Time and Angle Resolved Photoelectron Spectroscopy
6	Rouven Dreyer	Non-linear spin-wave generation at low magnetic bias field
7	Lukas Geiling	Brillouin light scattering (BLS) setup for spin wave detection between 1 GHz and 2 THz
8	O. Gueckstock & G. Bierhance	Ultrafast magnon currents in γ-Fe₂O₃ and Fe₃O₄ & electro-optical THz analyzer
9	Albert Hönemann	Edelstein effect and spin-orbit torque in ferromagnetic/nonmagnetic heterostructures
10	Robin Kamrta	Double photoemission spectroscopy with MHz high-order harmonics
11	Jozef Kimák	Investigation of magnetic and magneto-optical anisotropy of ferromagnetic thin films
12	Abhijeet Kumar	Ultrafast dynamics of charges and spins in Transition Metal Dichalcogenides
13	I. Kumberg & J. Gördes	Time-resolved X-ray magnetic circular dichroism on Ni/NiMn and Co/NiMn bilayers
14	Dominic Lawrenz	Static and dynamic demagnetization of MBE grown Fe/Gd films on W(110) investigated with XMCD-R
15	Maximilian Mattern	Picosecond strain dynamics driven by Ultrafast Demagnetization in Dysprosium
16	Maximilian Paleschke	Setup for time-resolved photoemission electron microscopy of ferromagnetic surfaces and magnetization dynamics triggered by back-side illumination
17	Ricardo Rama-Eiroa	Inertial domain wall motion driven by staggered spin-orbit fields in uncompensated antiferromagnets
18	Dominik Schulz	Generation of high harmonics in correlated and spin-orbit coupled electronic systems
19	Christopher Seibel	Influence of substrates on the demagnetization dynamics of Nickel
20	F. Steinbach & K. Yao	All-optical switching with patterned excitation - probed in the optical and XUV range
21	Franziska Töppler	A real-space tight-binding approach to model ultrafast spin dynamics
22	Sergey Trishin	Magnetic nanostructures on MoS₂
23	Alexander von Reppert	Finite size effects on the ultrafast remagnetization- and lattice dynamics of FePt
24	Huijuan Xiao	Spin transport in layered magnetic systems by time- and spin-dependent photoelectron spectroscopy
25	Asieh Yousofnejad	Electronic Structure of Organic Molecules on Single-Layer MoS₂/Ag(111)
26	Daniela Zahn	Lattice dynamics of 3d and 4f ferromagnets
27	Xinwei Zheng	XUV tr-ARPES to investigate lanthanide magnetization dynamics