

# Joint School on Spin Physics (JSSP)

Oct. 25 – 28. 2021

PhD conference of TRR 227 and TRR 173 – Hotel am Schloß Apolda, Thuringia



## Day 1: Monday, 25<sup>th</sup> October 2021

12:30 – 13:30

Arrival, Registration and Lunch

### Commencement

13:40 – 14:00 JSSP 2021 Organization Welcome & Opening remarks for the conference, safety remarks

14:00 – 14:40 Martin Weinelt/Martin Aeschlimann Inauguration, SFB overview talks

14:40 – 15:00

*Coffee Break*

### Session 1.1

Chair: Yannic Behovits

15:00 – 16:00 Sangeeta Sharma Ultrafast response functions

16:00 – 16:20 Eva Walther Time- and spin-resolved momentum microscopy - (Technical talk)

### Session 1.2

Chair: Daniela Zahn

16:30 – 17:30 Daniel Steil Spectrally resolving ultrafast magnetization dynamics using XUV light

17:30 – 17:50 Martin Anstett Influence of a non-magnetic substrate on optically induced transport in a ferromagnetic alloy

17:50 – 18:30 Katharina Franke/ Bärbel Rethfeld YRC overview talk / iRTG overview talk

18:30 – 20:00

*Dinner*

### Session 1.3

20:00 – 22:00

Poster session 1A and 1B

## Day 2: Tuesday, 26<sup>th</sup> October 2021

### Session 2.1

Chair: David Reiss

09:00 – 10:00	Richard Evans	Massively parallel atomistic simulations of complex magnets
10:00 – 11:00	Matthias Bargheer	Ultrafast strain, heat and magnetization dynamics studied by UXRD and MOKE

11:00 - 11:20

*Coffee Break*

### Session 2.2

Chair: Rouven Dreyer

11:20 – 12:20	Tobias Kampfrath	Probing ultrafast spin transport with terahertz electromagnetic pulses
12:20 – 12:40	Christopher Seibel	Control of transport effects in magnetic heterostructures by wavelength modulation
12:40 – 13:00	Dominic Schultz	Microstructured spintronic terahertz emitters for cylindrical vector beam generation

13:00 – 14:00

*Lunch*

### Personal and Career development

14:00 – 18:00	Rob Thompson	Workshop on Networking
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18:30 – 19:30

*Dinner*

### Social Event

19:30 – 20:30	City-Tour (1 <sup>st</sup> and 2 <sup>nd</sup> group)
20:45 – 21:45	City-Tour (3 <sup>rd</sup> and 4 <sup>th</sup> group)

## Day 3: Wednesday, 27<sup>th</sup> October 2021

### Session 3.1

Chair: Ross Knapmann

09:00 – 10:00	Alexander Lichtenstein	Correlated Materials and Ultrafast Dynamics
10:00 – 10:20	Eva Prinz	The orbital angular momentum of light - (Technical talk)
10:20 – 10:40	Atul Panday	Opto-electric imaging of spin polarization

10:40 – 11:00 *Coffee Break*

### Session 3.2

Chair: Reza Rouzegar

11:00 – 12:00	Khalil Zakeri Lori	Quantum engineering of magnonic states in layered ferromagnets
12:00 – 12:20	Robin Neumann	Orbital magnetic moment of magnons
12:20 – 12:40	Rouven Dreyer	Non-linear magnetization dynamics in the frequency domain

12:40 – 14:00 *Lunch*

### Session 3.3

14:00 – 15:00 Richard Evans, Sarah Jenkins VAMPIRE Tutorial

15:00 – 17:00 Poster session 2A and 2B

17:00 – 18:00 Break

18:00 – 20:00 *Dinner*

### Career talk

20:00 – 21:30 Jairo Sinova *"But nobody told me this!: planning for success beyond your PhD ... helping serendipity"*

## Day 4: Thursday, 28<sup>th</sup> October 2021

### Session 4.1

Chair: E. Prinz

09:00 – 10:00	Olena Gomonay	Seeing or listening: Magnetoelastic effects in antiferromagnetic textures
10:00 – 10:20	Bennet Karetta	Bend don't break - Strain incompatibility in antiferromagnetic multidomain systems - (Technical talk)
10:20 – 10:40	Stephan Wust	Ultrafast dynamics in antiferromagnetic Pt/NiO thin films

10:40 – 11:00

*Coffee Break and checkout*

### Session 4.2

Chair: A. Akashdeep

11:00 – 11:20	Tobias Wagner	Lockdown: Pinning and hysteresis effects in antiferromagnetic-ferromagnetic heterosystems
11:20 – 11:40	Jannic Behovits	Torques in (anti-)ferromagnets at THz frequencies
11:40 – 12:00	Lisa Kern	Controlled localized nucleation of magnetic skyrmions

12:00 – 13:20

*Quo Vadis:* Invited speakers share their perspectives on the future course of spin physics

## End of school and Return journey

13:20 – 13:30

*Closing and Feedback*

13:20 – 14:30

*Lunch and Departure*