

Spins, Waves and Interactions

Program (Venue: Krupp Kolleg Greifswald)

Aug 28, 2018

19:00 *Dinner: Brasserie Hermann, Gützkower Str. 1*

Aug 29, 2018

Chairs: Henning Ulrichs, Sangeetha Sharma, Bernd Rellinghaus

- 9:00 Alexander Mook Spin and heat transport by magnons: theory, simulations, and a tad of topology
- 9:30 Tristan Mueller Ultra Long-Range Ab-Initio Calculations
- 10:00 Sebastian Schneider Quantitative Mapping of the Skyrmion Spin Texture in FeGe

10:30 - 11:00 *Coffee break*

Chairs: Tobias Kampfrath, Lukas Nadvornik

- 11:00 Olejnik Kamil Antiferromagnetic memory with terahertz writing speed
- 11:30 Jörg Wunderlich Electrically induced and detected Néel vector reversal in a collinear Antiferromagnet
- 12:00 Alexander Chekhov Localization of Sub-terahertz spin dynamics in Au/garnet magnetoplasmonic crystals

12:30 - 14:30 *Lunch*

Chairs: Sebastian Gönnerwein, Ulrich Nowak

- 14:30 Markus Meinert Key role of thermal activation in the electrical switching of antiferromagnetic Mn₂Au and CuMnAs
- 15:00 Severin Selzer Exchange enhanced switching in antiferromagnets

15:30 *Coffee Break*

16:00 Postersession; Chair: Andy Thomas

19:00 *Dinner: Goldmarie, Fischstr. 11*



Aug 30, 2018

Chairs: Hans Hübl, Helmut Schultheiss

- 9:00 Mathias Weiler Nanoscale spin waves in magnetic bilayers and chiral magnets
- 9:30 Daniel Schwienbacher Magnetoelasticity of CoFe thin films
- 10:00 Olav Hellwig The physics of synthetic antiferromagnets with perpendicular anisotropy

10:30 - 11:00 Coffee break

Chairs: Christian Heiliger, Markus Münzenberg

- 11:00 Jagadeesh Moodera Behavior of Dirac materials with broken symmetry
- 11:30 Hans Schumacher Laser pulse induced dynamics of magnetic tunnel junctions
- 12:00 Martin Gradhand The spin Hall effect in real materials - Impurities versus the Berry curvature
- 12:30 Excursion starts Organizer: Markus Münzenberg*