

SPINS, WAVES, AND INTERACTIONS 2026

Greifswald, August 24 – 26

jointly with
cost
EUROPEAN COOPERATION
IN SCIENCE & TECHNOLOGY

FREIE
UNIVERSITÄT
BERLIN

DIOSCURI
CENTRE FOR SPINORBITRONICS
AND MAGNONICS



FZU

Institute of Physics
of the Czech
Academy of Sciences

Universität
Konstanz



CHARLES
UNIVERSITY

Program Overview:

Monday Aug 24 th		Tuesday Aug 25 th		Wednesday Aug 26 th	
organized by:  EUROPEAN COOPERATION IN SCIENCE & TECHNOLOGY Universität Konstanz  UNIVERZITA KARLOVA  FZU Institute of Physics of the Czech Academy of Sciences FREIE UNIVERSITÄT BERLIN sponsored by:  Alfred Krupp Wissenschaftskolleg Greifswald in Trägerschaft der Stiftung Alfred Krupp Stiftung Greifswald		8:45 – 9:00	Welcome and opening remarks. Marcus Hoffmann: A short introduction of the Krupp Kolleg.		
		9:00 – 10:30	Magnetic materials <i>Chair: Michaela Lammell</i> 9:00 Lisa Michez (CINaM-CNRS, Aix Marseille Université) 9:30 William Legrand (Institut Néel, CNRS – Grenoble) 10:00 Daniel Scheffler (Institute of Physics of the Czech Academy of Sciences)	9:00 – 10:30	Altermagnetism <i>Chair: Lukas Nadvornik</i> 9:00 Olena Gomonay (JGU Mainz) 10:00 José Solano Córdova (Institute of Physics of the Czech Academy of Sciences)
		10:30 – 11:00	Coffee break	10:30 – 11:00	Coffee break
		11:00 – 12:30	Magnetotransport <i>Chair: Lukas Nadvornik</i> 11:00 Piet Brouwer (FU Berlin) 11:30 Tamalika Banerjee (University of Groningen) 12:00 Zdeněk Kašpar (Charles University)	11:00 – 12:30	Interactions of magnons and phonons <i>Chair: Oliver Gueckstock</i> 11:00 Héroïse Damas (HFML-FELIX, Radboud University) 11:30 Ulrich Nowak (University of Konstanz) 12:00 Lukáš Flajšman (Aalto University)
		12:30 – 14:00	Lunch	12:30 – 13:30	Lunch
		14:00 – 15:30	Ultrafast optics and THz <i>Chair: Oliver Gueckstock</i> 14:00 Alexander Chekhov (University of Potsdam) 14:30 Andrei Kirilouk (HFML-FELIX, Radboud University) 15:00 Peter Kubaščík (Charles University)	13:30 – 15:00	Quantum Magnonics <i>Chair: Michaela Lammell</i> 13:30 Silvia Kusminskiy (RWTH Aachen University) 14:00 Verena Brehm (TU Eindhoven) 14:30 Michael Flatté (University of Iowa; TU Eindhoven)
	Arrival	15:30 – 18:00	Poster Session	15:00 – 15:15	Closing remarks
19:30	Dinner	19:00	Dinner	17:00	Excursion to the Wendelstein 7-X

Monday, 24th August 2026

19:30

Dinner (Brasserie Hermann, Anklamer Str. 108)



Tuesday, 25th August 2026

8:45 – 9:00	Welcome and opening remarks	
9:00 – 10:30	<i>Magnetic materials</i>	(Chair: Michaela Lammel)
9:00	Lisa Michez, CINaM-CNRS, Aix Marseille Université <i>Growth strategies and advanced characterizations of altermagnetic Mn_5Si_3 thin films</i>	
9:30	William Legrand, Institut Néel, CNRS - Grenoble <i>Avoiding or Engineering Dissipation in Magnetic Insulators</i>	
10:00	Daniel Scheffler, Institute of Physics of the Czech Academy of Sciences <i>Epitaxial growth of altermagnetic thin films by magnetron co-sputtering</i>	
10:30 – 11:00	Coffee break	
11:00 – 12:30	<i>Magnetotransport</i>	(Chair: Lukas Nadvornik)
11:00	Piet Brouwer, FU Berlin <i>Nonlinear magnetoelectric transport effects in normal-metal magnetic-insulator heterostructures</i>	
11:30	Tamalika Banerjee, University of Groningen <i>Spin transport in complex oxides</i>	
12:00	Zdeněk Kašpar, Charles University <i>Magnetoresistance and magnetotransport in THz frequencies</i>	
12:30 – 14:00	Lunch	
14:00 – 15:30	<i>Ultrafast optics and THz</i>	(Chair: Oliver Gueckstock)
14:00	Alexander Chekov, University of Potsdam <i>Driving spins with THz magnetic field</i>	
14:30	Andrei Kiriliuk, HFML-FELIX, Radboud University <i>Magnetic dynamics and switching driven by far-infrared light: phononics or not?</i>	
15:00	Peter Kubaščík, Charles University <i>From spin-Hall magnetoresistance at THz frequencies towards ultrashort spin-wave packets in altermagnets</i>	
15:30 – 18:00	<i>Poster Session</i> (presentations listed on last pages)	
19:00	Dinner (Goldmarie, Fischstr. 11)	



Wednesday, 26th August 2026

9:00 – 10:30	<i>Altermagnetism</i>	(Chair: Lukas Nadvornik)
9:00	Olena Gomonay , JGU Mainz <i>Structure, control, and dynamics of altermagnetic textures</i>	
10:00	José Solano Córdoba , Institute of Physics of the Czech Academy of Sciences <i>Understanding GHz spin dynamics in altermagnets</i>	
10:30 – 11:00	Coffee break	
11:00 – 12:30	<i>Interactions of magnons and phonons</i>	(Chair: Oliver Gueckstock)
11:00	Héloïse Damas , HFML-FELIX, Radboud University <i>Distinct magnetic domain responses to mid-infrared free electron laser excitation in Co-doped YIG</i>	
11:30	Ulrich Nowak , University of Konstanz <i>Chiral phonons in spintronics</i>	
12:00	Lukáš Flajšman , Aalto University <i>Taming magnons for convolutional neural networks</i>	
12:30 – 13:30	Lunch	
13:30 – 15:00	<i>Quantum Magnonics</i>	(Chair: Michaela Lammel)
13:30	Silvia Kusminskiy , RWTH Aachen University <i>Magnons as information carriers in hybrid quantum architectures</i>	
14:00	Verena Brehm , TU Eindhoven <i>How to observe antiferromagnetic magnon condensation in hematite</i>	
14:30	Michael Flatté , University of Iowa / TU Eindhoven <i>Magnonics for Quantum Technologies</i>	
15:00	Closing remarks	
16:00	Excursion to the Wendelstein 7-X	



Poster presentations:

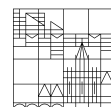
1. **Ali, Basharat** (Pavol Jozef Safarik University)
Tuning cerium(III) magnetism by confinement: intercalation of a dinuclear aqua-chlorido complex in synthetic saponite
2. **Aliev, Farkhad** (Universidad Autonoma de Madrid)
Unravelling different contributions to spin orbit coupling in superconductor / ferromagnet hybrids
3. **Brühlmann, Marco** (TU Vienna)
Magnonic quantum state preparation by parametric processes
4. **Gupta, Ayush** (University of Groningen)
Freestanding Complex Oxide Membranes
5. **Meese, Barbara Tabea** (TU Vienna)
Entangling Magnon Modes with Opposite Effective Masses
6. **Ahmad Shahid, Shakeel** (Government Graduate College Khurianwala Faisalabad Pakistan)
Ultrafast Spin Dynamics and Femtosecond Control of Magnetization: Emerging Frontiers in Spintronics
7. **Bohra, Murtaza** (Mahindra University, Hyderabad)
Magnon Dynamics in Amorphous/disordered ZnFe₂O₄ Thin Films
8. **Xu, Yongbing** (Nanjing University, China, The University of York)
2D spin systems under femtosecond pulsed laser
9. **Grisk, Holger** (CEA Paris Saclay)
Ultrafast magnetization dynamics of bismuth ferrite heterostructures
10. **Menna, Lorenzo** (Heriot-Watt University)
Ferromagnetic resonance of an intercalated VdW antiferromagnet
11. **Kredl, Jana** (University of Greifswald)
Applications of 3D Nano-Lithography in Magnetism
12. **Jäckel, Kevin** (University of Greifswald)
Driven Ultrafast: Altermagnets going into non-equilibrium
13. **Wei, Liu** (FU Berlin)
Probing ultrafast antiferromagnetic dynamics by optical second harmonic

generation

14. **Albrecht, Manfred** (University of Augsburg)
Dipolar-stabilized skyrmions and antiskyrmions in magnetic multilayers
15. **Rózsa, Levente** (HUN-REN Wigner Research Centre for Physics)
Hidden quantum correlations in the ground states of quasiclassical spin systems
16. **Ravasio, Lucia** (Institute of Physics of the Czech Academy of Sciences /
University of Milano-Bicocca)
Magnetron co-sputtering of altermagnetic MnTe thin films
17. **Dornquast, Niklas** (University of Greifswald)
Optical manipulation of spin based AC-nanooscillators
18. **Dannegger, Tobias** (Universität Konstanz)
Altermagnetism in hematite
19. **Lutsenko, Anton** (Aalto University)
*Size dependence of spin-wave amplitude enhancement and scattering in
magnonic Fabry-Pérot resonators*
20. **Riederer, Thomas** (Aalto University)
*Er:YIG characterisation for Magnon-Spin Ion mediated Microwave-to-Optics
(M2O) transduction*



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