

Spin Dynamics in Materials with Unconventional Symmetries

847. WE-Heraeus-Seminar

06 – 09 January 2026

at the Physikzentrum Bad Honnef, Germany

**WILHELM UND ELSE
HERAEUS-STIFTUNG**



Program

Tuesday, 06 January 2026

16:00 – 20:00	Registration	
18:00	<i>BUFFET SUPPER and informal get-together</i>	
19:30 – 19:45	Scientific organizers	Welcome words
19:45 – 20:30	Stefan Blügel	Hopfions in magnetic solids: Theory, stability, material, experiment
20:30 – 21:15	Helena Reichlova	Towards spintronics with altermagnets

Wednesday, 07 January 2026

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Rembert Duine	Twist-modulated magnetic interactions in bilayer van der Waals materials
09:45 – 10:30	Katrin Schultheiss	Self-induced Floquet magnons in magnetic vortices
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Tobias Kampfrath	tba
11:45 – 12:30	Dima Afanasiev	Shining light on 2D antiferromagnets
12:30 – 12:40	Conference photo	
12:40	LUNCH	

Program

Wednesday, 07 January 2026

14:00 – 14:45	Dongwook Go	Chiral-induced orbital selectivity by orbital topology of chiral fermions
14:45 – 15:30	Dominik Juraschek	Chiral phonons and multiferrons
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 16:45	Junichiro Kono	Simulating Dicke physics with spin-magnon coupling in rare earth orthoferrites
16:45 – 17:30	Stuart Parkin	tba
17:30 – 17:45	Mona Bhukta	Spin-orbit torque driven nanosecond dynamics of topological spin textures in synthetic antiferromagnets
17:45 – 18:00	Pieter Gunnink	Spin demons in d-wave altermagnets
18:00	<i>DINNER</i>	
19:30	Poster flashes & posters (open end)	

Program

Thursday, 08 January 2026

08:00 *BREAKFAST*

09:00 – 09:45 Hariom Jani **Engineering topological
antiferromagnetic solitons for
spintronics**

09:45 – 10:30 Aisha Aqeel **Detection of static and dynamic
magnetization of twists in
(anti-)ferromagnetic insulators**

10:30 – 11:00 *COFFEE BREAK*

11:00 – 11:45 Jeroen Van Den
Brink **Altermagnetic anomalous hall effect
emerging from electronic correlations**

11:45 – 12:30 Jairo Sinova **Unconventional magnetism: the
emergence of altermagnetism and
beyond**

12:30 *LUNCH*

14:00 – 15:30 **Posters & Discussions**

15:30 – 16:00 *COFFEE BREAK*

Program

Thursday, 08 January 2026

16:00 – 16:45	Claire Donnelly	Mapping topological textures in compensated magnets with X-rays
16:45 – 17:30	Nicolas Jaouen	Time-evolution of chiral Néel magnetic domain walls in multilayers probed by soft x-ray resonant magnetic scattering.
17:30 – 17:45	Olena Gomonay	Phenomenology of altermagnets and altermagnetic textures
17:45 – 18:00	Sonu Kumar	Crystal-field-driven magnetoelectricity in the triangular quantum magnet CeMgAl₁₁O₁₉
18:00	HERAEUS DINNER (social event with cold & warm buffet with complimentary drinks)	
20:00	Awards and discussion panel	

Program

Friday, 09 January 2026

08:00 *BREAKFAST*

09:00 – 09:45 Sayantika Bhowal **Interplay between magnetoelectric multiferroicity and non-relativistic spin splitting**

09:45 – 10:30 Silvia Viola-Kusminsky **Harnessing photons to probe topological magnons**

10:30 – 11:00 *COFFEE BREAK*

11:00 – 11:45 Lukas Körber **Nonlinear spin dynamics under thermal and quantum fluctuations**

11:45 – 12:30 Maxim Mostovoy **Dynamics of periodically driven topological magnetic defects**

12:30 *LUNCH*

End of the seminar and departure

NO DINNER for participants leaving on Saturday; however, a self-service breakfast will be provided on Saturday morning