

Program

Tuesday, 04 January 2022

17:00 – 20:00 Registration

18:00 *BUFFET SUPPER and informal get-together*

Wednesday, 05 January 2022

07:30 *BREAKFAST*

08:45 Scientific organizers **Welcome and opening**

09:00 – 09:45 Elena Vedmedenko
(*online*) **Imprinting and processing of different
topological objects in the same
material**

09:45 – 10:30 Jonathan Leliaert **Skymion hall effect in spin-orbit
torque driven topologically trivial and
nontrivial structures**

10:30 – 11:00 *COFFEE BREAK*

11:00 – 11:45 Amalio Fernández-
Pacheco
(*online*) **New effects in 3D magnetic
nanostructures with complex
geometries**

11:45 – 12:30 Pietro Gambardella
(*online*) **Synthetic chiral magnets in two and
three dimensions**

12:30 - **Conference Photo** (in the front of the lecture hall)

12:40 *LUNCH*

Program

Wednesday, 05 January 2022

14:00 – 14:45	Mathias Kläui	Ultra-fast chiral spin dynamics
14:45 – 15:30	Jairo Sinova	Altermagnetism: spin-momentum locked phase protected by non-relativistic symmetries
15:30 – 16:00	<i>COFFEE BREAK</i>	
16:00 – 16:45	Denis Sheka (online)	Curvilinear magnetism
16:45 – 17:30	Vincent Cros (online)	Non-collinear 3D textures in magnetic multilayers: from hybrid chiral textures to skyrmionic cocoons
17:30 – 17:45	Maria Azhar	Screw dislocations in chiral magnets
17:45 – 18:00	Sebastián Díaz	Steering Majorana braiding via skyrmion-vortex pairs: a scalable platform
18:00	<i>DINNER</i>	
19:30	Poster session I <u>online</u> (open end)	

Program

Thursday, 06 January 2022

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Angela Wittmann	Complex domain structures in the canted antiferromagnet α-Fe₂O₃
09:45 – 10:30	Gisela Schütz	Magnetization dynamics in the light of x-rays
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Jakob Walowski (online)	THz imaging
11:45 – 12:30	Stefan Blügel	Search for isolated Hopfions in magnetic solids
12:30	<i>LUNCH</i>	

Program

Thursday, 06 January 2022

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| 14:00 – 15:30 | Poster session II <u>online</u> | |
| 15:30 – 16:45 | <i>Coffee Break/ Networking Session (online and on site)</i> | |
| 16:45 – 17:30 | Tomas Jungwirth
(online) | Antiferromagnets and altermagnets:
From neuromorphics and ultra-fast
optics to dissipationless nano-
electronics |
| 17:30 – 17:45 | Javier Hermosa | Study of domain wall topology of Py
microstructures by magnetic X-ray
vector tomography |
| 17:45 – 18:00 | Lisa-Marie Kern | Controlled localization of magnetic
skyrmion nucleation |
| 18:00 | <i>HERAEUS DINNER
(social event with cold & warm buffet with complimentary drinks)</i> | |
| 19:30 | Poster session III <u>on site</u> | |

Program

Friday, 07 January 2022

08:00	<i>BREAKFAST</i>	
09:00 – 09:45	Oksana Chubykalo-Fesenko (online)	Complex Bloch-point domain wall dynamics in cylindrical magnetic nanowires
09:45 – 10:30	Daniel Wolf (online)	Three-dimensional nanoscale magnetic imaging by holographic vector-field electron tomography
10:30 – 11:00	<i>COFFEE BREAK</i>	
11:00 – 11:45	Stuart Parkin (online)	Chiral antiferromagnets: current induced manipulation of the antiferromagnetic state
11:45 – 12:30	Scientific organizers	Best poster Best contributed talk Closing remarks
12:30	<i>LUNCH</i>	

End of the seminar and departure