



Program

from Wednesday, March 31 14:00 to Thursday, April 1 13:00

Talks will be 20+5; all times are for [CET / Paris time](#).

Session 1 March 31

- 13:45 – 14:00 Connection
14:00 – 14:10 Welcome and Introduction
- 14:10 – 14:35 [Felix Büttner](#) (Helmholtz-Zentrum Berlin, Germany)
[Electrical and optical nucleation of magnetic skyrmions](#)
- 14:35 – 15:00 [Fumitaka Kagawa](#) (Tokyo Univ., Japan)
[Narrow-band resistance noise and mode-locking phenomena of a skyrmion lattice in a microfabricated MnSi](#)
- 15:00 – 15:25 [Nicolas Jaouen](#) (Synchrotron SOLEIL, France)
[Chirality in multilayers probed by Soft x-ray \(coherent\) scattering](#)
- 15:25 – 15:50 [Katharina Zeissler](#) (Leeds Univ., UK)
[Low velocity motion of skyrmions in multilayer systems](#)
- 10:50 – 16:00 **Break**
- 16:00 – 16:25 [Seonghoon Woo](#) (IBM Yorktown, USA)
[Magnetic skyrmions in two-dimensional van der Waals heterostructures](#)
- 16:25 – 16:50 [Yuriy Mokrousov](#) (Forschungszentrum Jülich and JGU, Germany)
[Skyrmions, Non-commutative Geometry and Hall Effect](#)
- 16:50 – 17:15 [Andras Kovacs](#) (Forschungszentrum Jülich, Germany)
[Magnetic imaging of three-dimensional magnetic textures using off-axis electron holography](#)
- 17:15 – 17:40 [Nicolas Reyren](#) (CNRS/Thales, France)
[Skyrmions in synthetic antiferromagnetic multilayers: Room temperature stabilization of skyrmions in the 10-nm-diameter range](#)



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Session 2 April 1

- 8:45 – 9:00 Connection
9:00 – 9:10 Welcome
- 9:10 – 9:35 [Max Hirschberger](#) (RIKEN, Japan)
[Material search and emergent electrodynamic response of topological spin textures in centrosymmetric lattices](#)
- 9:35 – 10:00 [Fillip N. Rybakov](#) (KTH, Sweden)
[How to find the energetically most favorable chiral skyrmion with a given topological charge?](#)
- 10:00 – 10:25 [Naoya Kanazawa](#) (Tokyo Univ., Japan)
[Multiple magnetic phases and topological transport properties in chiral magnets](#)
- 10:25 – 10:50 [Louise Desplat](#) (IPCMS – CNRS / Université de Strasbourg, France)
[Thermal stability of metastable magnetic skyrmions](#)
- 10:50 – 11:00 **Break**
- 11:00 – 11:25 [Aurore Finco](#) (L2C, France)
[Imaging non-collinear antiferromagnetic textures via single spin relaxometry](#)
- 11:25 – 11:50 [Xichao Zhang](#) (Shinshu University, Japan)
[Frustrated Magnetic Skyrmions and Bimerons](#)
- 11:50 – 12:15 [Jakub Zazvorka](#) (JGU & Prague Univ., Germany & Czech Rep.)
[Skyrmion Diffusion and Lattices: From Observation to Application](#)
- 12:15 – 12:40 [Tobias Weber](#) (ILL, France)
[Skyrmion dynamics in MnSi](#)
- 12:40 – 13:00 **Closing**