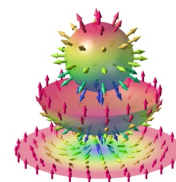


Retreat- & Networking-Meeting SPP2137



Skyrmionics Topological Spin Phenomena in Real-Space for Applications

Program

3. September 2020

- Chair:* N.N.
- 9:15 **Christian Pfleiderer** (onsite), Technical University of Munich
Goals and Organization of the Priority Program on Skyrmionics
- 9:45 **Ellen Reister** (remote), Deutsche Forschungsgemeinschaft
Formal Aspects of Priority Programs (Proposals, funding & more)
- 10:30 coffee break
- Chair:* N.N.
- 11:00 **Wulf Wulfhekel** (onsite), Karlsruhe Institute for Technology
Skyrmion annihilation and proximity effect in Co/Ru(0001)
- 11:20 **Stefan Krause** (remote), University of Hamburg
Atomic-scale skyrmions driven by lateral spin-polarized currents
- 11:40 **Kirsten von Bergmann** (remote), University of Hamburg
Zero-field skyrmions in ultrathin films, imaged with spin-polarized STM
- 12:00 **Discussion on Skyrmions at surfaces**
- 12:30 lunch break
- Chair:* N.N.
- 14:00 **Martin Stier** (onsite), University of Hamburg
Skyrmions under constraints
- 14:20 **Samme Dahir** (onsite), University of Bochum
Novel features of superconducting/chiral-ferromagnetic heterostructures with chiral magnetic skyrmions
- 14:40 **Achim Rosch** (onsite), University of Cologne
Skyrmion and tetron lattices in twisted bilayer graphene
- 15:00 **Discussion on Skyrmions in novel settings**
- 15:30 coffee break

3. September 2020

Chair:	N.N.
16:00	Volodymyr Kravtchuk (onsite), Karlsruhe Institute for Technology <i>Geometrical phenomena in chiral magnets</i>
16:20	Fabian Lux (remote), Forschungszentrum Jülich <i>Signatures of the Chiral Hall Effect in Noncollinear Magnets</i>
16:40	Vladyslav Kuchkin (onsite), Forschungszentrum Jülich <i>Diverse 2D and 3D chiral solitons and their dynamical properties</i>
17:00	Discussion on new facets of Skyrmions
18:00	Dinner

4. September 2020

Chair:	N.N.
9:00	Alex Bogdanov (onsite), IFW Dresden <i>Magnetic Skyrmions, Quo Vadis?</i>
9:20	Olena Gomonay (onsite), University of Mainz <i>Nonlinear magnon coupling mediated by the T-domain wall in NiO antiferromagnet</i>
9:40	Alexander Suhkanov , Technical University of Dresden <i>Anisotropic mesoscale magnetic texture in $Mn_{1.4}PtSn$</i>
10:00	Claudia Felser (remote), MPI-CPfS Dresden <i>Skyrmions in Heusler</i>
10:20	Discussion on Skyrmions in bulk materials
10:50	Coffee break
Chair:	N.N.
11:20	Maria Azahr (onsite), Karlsruhe Institute for Technology <i>All-electrical detection of skyrmion lattice state and chiral surface twists</i>
11:40	Venkata Krishna Bharadwaj (remote), University of Mainz <i>Stability and dynamics of in-plane Skyrmions</i>
12:00	Simon Pöllath (remote), University of Regensburg <i>Skyrmion structure relation to electron phase obtained by Lorentz TEM</i>
12:20	Discussion on Skyrmions in thin films and thin samples
12:50	Clarification of last minute questions (<i>E. Reister & C. Pfleiderer</i>)
13:10	Lunch break (end of meeting)