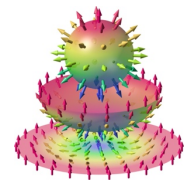


Retreat-Meeting SPP2137



Skymionics Topological Spin Phenomena in Real-Space for Applications

Program 27. February 2019

Lecture Hall 0220

- 10:00 *Welcome*
- 10:05 **Markus Preissinger**, University of Augsburg
Magnetic Skyrmions of Different Origins
- 10:25 **Alfonso Chacon**, Technical University of Munich
Observation of two independent skyrmion phases in a chiral magnet
- 10:45 **Anastasios Markou**, MPI-CPfS Dresden
Antiskyrmion phase in tetragonal Heusler compounds
- 11:05 **Lukas Heinen**, University of Cologne
Helimagnons revisited
- 11:25 **Mathias Weiler**, WMI Munich
Helimagnon resonances in a natural magnonic crystal
- 11:45 **Aisha Aqeel**, Technical University of Munich
Bragg scattering FMR on the chiral magnet Cu_2OSeO_3

Immatrikulationshalle

- 12:15 Lunch break
- 13:00 Poster session

Lecture Hall 0220

- 15:00 **Alex Bogdanov**, IFW Dresden
Magnetic skyrmions-bubble hybrids in nanolayers of metallic ferromagnets
- 15:20 **Martin Stier**, University of Hamburg
Controlling the Skyrmion Hall angle of current-driven Skyrmions by spin-orbit interaction
- 15:40 **Ionela Lindfors-Vrejoiu**, University of Cologne
Berry phase engineering versus formation of skyrmions in $\text{SrRuO}_3/\text{SrIrO}_3$ heterostructures
- 16:00 **Jeffrey McCord**, University of Greifswald
Probing skyrmion local energy landscapes in $\text{Ta}/\text{CoFeB}/\text{MgO}$ by size and motion

- 16:20 **Ilya Eremin**, University of Bochum
Proximity-induced effects and novel functionalities in superconducting/ferromagnetic heterostructures with magnetic skyrmions
- 16:40 **Christian Pfleiderer**, Technical University of Munich
Information on Organizational Matters
(retreat meetings, international conference, 2nd funding period, ...)
- 17:00 End of session
- 18:30 Dinner (pay yourself)
Augustiner-Keller, Arnulfstrasse 52, 80355 München

28. February 2019

Lecture Hall 0220

- 9:00 **Ricardo Zarzuela**, University of Mainz
Skyrmion dynamics in two and three dimensions
- 9:20 **Markus Garst**, Technical University of Dresden
Solitary wave excitations of skyrmion strings in chiral magnets
- 9:40 **Samir Lounis**, Forschungszentrum Jülich & RWTH Aachen
Universality of defect-skyrmion interaction profiles
- 10:00 **Sergiy Mankovsky**, LMU Munich
Exchange coupling parameters calculated via the fully relativistic Korringa-Kohn-Rostoker Green function approach
- 10:20 Coffee break
- 10:50 *Selection of Young Researchers Representative*
Organisational Matters: Graduate Students & Postdocs
- 11:10 **Bernd Rellinghaus**, Technical University of Dresden
Skyrmions in 3D – a status report
- 11:30 **John Gaida**, University of Göttingen
Ultrafast Lorentz Microscopy: A tool to study laser- and current-driven magnetization dynamics
- 11:50 **Matthias Bode**, University of Würzburg
Skyrmions in antiferromagnetic and highly anisotropic environments
- 12:10 **Sebastian Mühlbauer**, Technical University of Munich
Neutron diffractive imaging of the skyrmion lattice nucleation in MnSi
- 12:30 *Concluding remarks*

Immatrikulationshalle

- 12:40 Lunch break
- 14:00 End of meeting