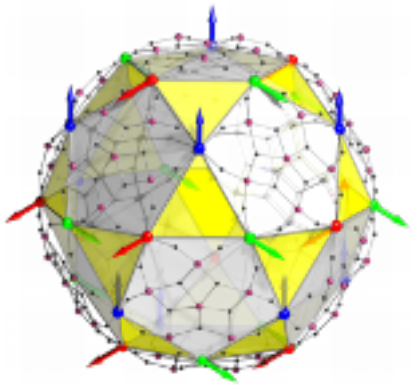
MLZ Conference: Neutrons for information and quantum technologies



Tuesday, June 4, 2019 - Friday, June 7, 2019

Arabella Brauneck Hotel

Scope and topics

The *MLZ Conference Neutrons for information and quantum technologies* addresses scientists from large scale facilities and universities and aims to illustrate the potential of neutron methods in information and quantum technology. Talks and posters covering the topics below will be presented by renowned international researchers in the field to demonstrate state-of-the-art methods and applications.

Spin caloritronics

keynote speaker: Gerrit E.W. Bauer, TU Delft & Tohoku University

Molecular magnetism

keynote speaker: Wolfgang Wernsdorfer, Karlsuhe Institute of Technology (KIT)

New trends in spintronics (flexible, antiferromagnetic)

keynote speaker: Subhankar Bedanta, National Institute of Education and Research (NISER), India

Novel rare-earth free permanent magnets

keynote speaker: Andreas Michels, University of Luxembourg

2D magnetic van der Waals materials

keynote speaker: Je-Geun Park, Seoul National University, Korea

Spin wave and magnonics

keynote speaker: Helmut Schultheiß, Helmholtz Zentrum Dresden (HZDR)

Dynamics of magnetic textures: domain walls, vortices and Skyrmions

keynote speaker: Christian Pfleiderer, Technical University of Munich (TUM)

Numerical simulations of quantum spin systems

keynote speaker: Ulrich Schollwoeck, Ludwig Maximilians Universität München

Quantum theories of spin-structures and spin-textures

keynote speaker: Stefan Blügel, Forschungszentrum Jülich GmbH