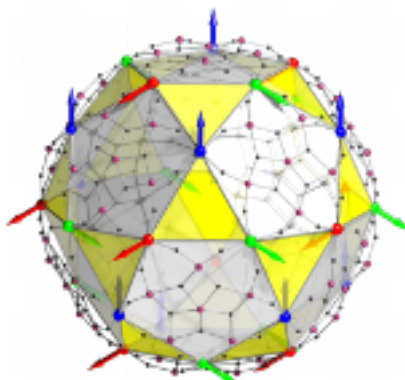


# **MLZ Conference: Neutrons for information and quantum technologies**



**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, Karlsruhe 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