



Magnetic Materials in the Light of Photons, Neutrons and Free Electron Lasers

Distinguished scientists will present tutorial lectures about their studies on diverse magnetic materials and phenomena, utilizing state-of-the-art experimental techniques. The meeting will highlight the unique insights gained from large-scale facilities such as neutron sources, synchrotrons, and free electron lasers. These powerful tools enable the exploration of spin dynamics, topological magnetism, and emergent quantum effects with unprecedented precision. Through cutting-edge investigations, we aim to deepen our understanding of magnetic interactions at the atomic and nanoscale levels. Join us for an inspiring exchange of ideas on the future of magnetism research.

Hotel PATRIA, High Tatras, Slovakia
July 9th, 2025, 14:00 - 19:00

- 14:00** **The Role of National Contact Point XFEL and ERI for Slovak Research Community**
Pavol Sovák Pavol Jozef Šafárik University in Košice, Slovakia
- 14:30** **The SCS Instrument of the European XFEL: A Versatile Tool for Ultrafast Magnetism**
Robert Carley European XFEL GmbH, Schenefeld, Germany
- 15:00** **Imaging the Spin Structure in Self-Assembled Magneto-Resistive Multilayer Nanowires**
Kai Schlage Deutsches Elektronen Synchrotron DESY, Hamburg, Germany
- 15:30** **Unconventional Altermagnetic Photoresponse by Polarized Light**
Juraj Krempaský Paul-Scherrer Institute, Swiss Light Source, Villigen, Switzerland
- 16:00** Coffee Break
- 16:30** **Switching Topological Spin Textures with Photocurrents**
Hugo Dil EFPL, Lausanne, Switzerland
- 17:00** **Research on the Beamline for Advanced Dichroism Experiments**
Peter Benčok Diamond Light Source Ltd, Didcot, Oxfordshire, United Kingdom
- 17:30** **Advanced Synchrotron Techniques for Real-Time Analysis of Magnetic and Structural Properties**
Štefan Michalik Diamond Light Source Ltd, Didcot, Oxfordshire, United Kingdom
- 18:00** **Pump-Probe Neutron Inelastic Scattering Experiments**
Jiří Kulda Institut Laue-Langevin, Grenoble, France
- 18:30** Panel Discussion