



Programme

- 08:30 Registration
- 09:00 Anna Grünebohm (Ruhr-Universität Bochum):
Welcome
- 09:00 Konstantin Skokov (TU Darmstadt):
Complexity of phase transitions in first-order multi-caloric materials
- 09:30 Heiko Wende (University of Duisburg-Essen):
Modification of vibrational properties along phase transitions: functional LaFeSi as a magnetocaloric model system
- 10:00 Coffee break
- 10:30 Philipp Gegenwart (University of Augsburg):
Milli-Kelvin adiabatic demagnetization refrigeration with quantum materials
- 11:00 Vladimir Shvartsman (University of Duisburg-Essen):
Relaxor ferroelectrics: Nanoscale heterogeneity as a key to exceptional functional properties
- 11:30 Xavier Moya (University of Cambridge):
Electrocaloric materials for zero-carbon heat pumps
- 12:30 Lunch break
- 13:30 Jan Frenzel (Ruhr-Universität Bochum):
Martensitic transformations and chemical complexity in shape memory alloys derived from Nickel-Titanium
- 14:00 Daoyong Cong (University of Science and Technology Beijing):
Phase transition and novel functional properties in chemically complex shape memory alloys
- 14:30 Claude Ederer (ETH Zürich):
From cross-caloric effects to metal-insulator transitions in correlated materials
- 15:00 Coffee break
- 15:30 Andy Mackenzie (MPIPKS Dresden):
Interplay between electronic and elastic degrees of freedom in Sr_2RuO_4
- 16:00 Gabi Schierning (Bielefeld University):
Role of conduction electrons in the phase transition of NiTi
- 16:30 Anna Böhmer (Ruhr-Universität Bochum):
Final Remarks
- 17:00 End of meeting

Conference Site:
Center for Interface-Dominated High Performance Materials
ZGH, room 03/121
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