

SFB TRR 288 Elasto-Q-Mat

PhD Summer School

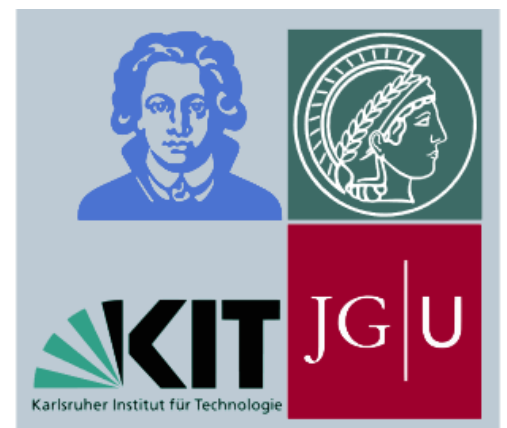
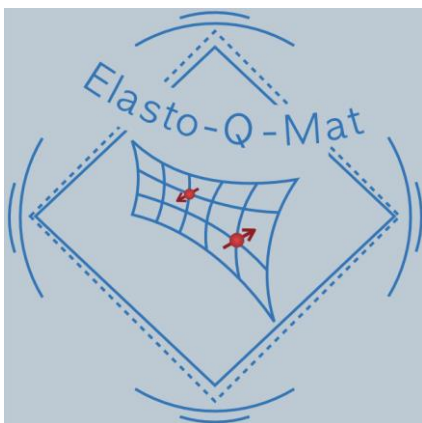
22.09.2025-25.09.2025

Program

Invited Speakers:

- Markus Braden (University Köln)
- Olena Fedchenko (Goethe University)
- Markus Garst (Karlsruhe Institute of Technology, KIT)
- Frank Lechermann (Ruhr University Bochum)
- Paul McClarty (CNRS Paris, LLB Paris, France)
- Alix McCollam (University College Cork, Ireland)
- Jürgen Schnack (University Bielefeld)
- Michaela Souliou (Karlsruhe Institute of Technology, KIT)

Venue: Hohenwart Forum Pforzheim
Schönbornstraße 25
75181 Pforzheim-Hohenwart



Program

Monday, 22.09.2025

Until 14:30	Arrival and get together
14:30-15:30	Lecture Talk <i>Inelastic x-ray scattering for phonon spectroscopy</i> Michaela Souliou, Karlsruhe Institute of Technology
15:35-16:20	Research Talk <i>Phonon spectroscopy in charge-density-wave systems</i> Michaela Souliou, Karlsruhe Institute of Technology
16:20-16:35	Coffee break
16:35-17:35	Lecture Talk <i>Basics of (frustrated) quantum systems</i> Jürgen Schnack, University of Bielefeld
17:40-18:25	Research Talk <i>Theoretical modelling of large magnetic molecules for magnetocalorics</i> Jürgen Schnack, University of Bielefeld
18:30	Dinner
20:00	Fireside chat

Tuesday, 23.09.2025

8:00-9:00	Breakfast
9:00-10:00	Lecture Talk <i>Neutron diffraction and scattering in material science</i> Markus Braden, University of Köln
10:05-10:50	Research Talk <i>Polarized neutron scattering experiments on superconductors and frustrated magnets</i> Markus Braden, University of Köln
10:50-11:05	Coffee break
11:05-12:05	Lecture Talk <i>tba</i> Paul McClarty, Centre national de la recherche scientifique (CNRS), Léon Brillouin Laboratory (LLB)
12:10-12:55	Research Talk <i>tba</i> Paul McClarty, Centre national de la recherche scientifique (CNRS), Léon Brillouin Laboratory (LLB)
13:00	Lunch
14:30	Hiking Tour
18:00	Dinner
19:30	Poster Session

Program

Wednesday, 24.09.2025

8:00-9:00	Breakfast
9:00-10:00	Lecture Talk <i>In a nutshell: DFT, DMFT and DFT+DMF</i> Frank Lecherman, Ruhr University Bochum
10:05-10:50	Research Talk <i>Nickelate superconductors from an advanced DFT+DMFT perspective</i> Frank Lechermann, Ruhr University Bochum
10:50-11:05	Coffee break
11:05-12:05	Lecture Talk <i>Photoelectron Spectroscopy: Capabilities and Limitations</i> Olena Fedchenko, Goethe-University Frankfurt
12:10-12:55	Research Talk <i>ARPES of Electronically Correlated Materials</i> Olena Fedchenko, Goethe-University Frankfurt
13:00	Lunch
14:30-15:30	Lecture Talk <i>Introduction to elasticity theory</i> Markus Garst, Karlsruhe Institute of Technology
15:35-16:20	Research Talk <i>Non-perturbative elastic coupling in quantum materials</i> Markus Garst, Karlsruhe Institute of Technology
16:20-16:35	Coffee break
16:40-17:40	Lecture Talk <i>tba</i> Alix McCollam, University College Cork, Ireland
17:45-18:30	Research Talk <i>tba</i> Alix McCollam, University College Cork, Ireland
18:30	Dinner
20:00	Networking and Get together

Thursday, 25.09.2025

8:00-9:00	Breakfast
9:00	Departure + Travel to Annual SFB Retreat in Weinheim