

Posters

- ▶ Advanced Methods of Electron Microscopy
- ▶ Analyzing band structure of materials using Photoemission Spectroscopy
- ▶ Charge-self-consistent DFT + DMFT calculations with FPLO and w2dynamics
- ▶ Chemical vapor growth of 2D systems and investigation of smart materials between magnetism and electrochemistry
- ▶ Dual topology in Jacutingaite Pt₂HgSe₃
- ▶ Dy₂O-clusterfullerenes: strong magnetic anisotropy and fullerene-dependent single molecule magnetism
- ▶ Electron Spin Resonance Spectroscopy on Strongly Correlated Electron Systems
- ▶ Electronic structure of α -RuCl₃ and WSe₂ from electron spectroscopy
- ▶ Functional Ferroic Materials, Films and Devices
- ▶ Functional Oxide Layers and Superconductors
- ▶ Investigation of nanomagnetic phenomena employing tailored mechanical oscillators
- ▶ It's not about the size, but about the technique: Single crystal growth of quantum materials
- ▶ Low Temperature STM
- ▶ Magnetic anisotropy in Ln-based EMFs in the presence of non-covalent interactions. Charge, structure and valence shell effects
- ▶ Magnetic Excitations in Spin 1/2 Heisenberg Antiferromagnetic System [Cu(C₂O₄)(D₂O)(C₅D₄N-ND₂)₂]_n
- ▶ Magnetotransport experiments in magnetic thin films and microstructures
- ▶ Optimizing self-assembly rolled-up microcoils for NMR
- ▶ Organic semiconductor single crystals
- ▶ Origins of plasticity in the precious metal based High-Entropy Alloy AuCuNiPdPt
- ▶ Photoemission Spectroscopy Study of Various F6 TCNNQ-based Interfaces
- ▶ Processing of metastable high entropy alloys
- ▶ Production of bulk metallic glasses and their composites via powder routes
- ▶ Quantum transport in a Weyl semi-metal
- ▶ Revisiting the phase diagram of LaFe_{1-x}CoxAsO single crystals by thermodynamic analysis
- ▶ Self Assembled Micro-Coils for Transmission Electron Microscopy (TEM) Applications.
- ▶ Self-Assembled Flexible and Integratable 3D Microtubular Supercapacitors
- ▶ *Sensing and actuation on cell-material interfaces in biohybrid microsystems: Engineered cell differentiation, motorization, and imaging*
- ▶ Statistical studies on random configurations of silicon-germanium carbon alloys using density functional theory
- ▶ Synthesis & Devices in thermoelectrics
- ▶ Thermoelectric characterization of materials and devices
- ▶ Three ways of exploring structure-property relationships in the field of magnetism and superconductivity

5th



Leibniz-Institut
für Festkörper- und
Werkstoffforschung
Dresden

Leibniz
Leibniz-Gemeinschaft

Condensed Matter School

Energy

Fundamentals and Applications from the Macro to Nanoscale

25th - 27th September

2019

Szczecin, Poland



Wednesday

14:00 Frank Ortman

"Linear Scaling Transport Approaches for Spins, Polarons and Excitons in Emerging Materials"

15:30 Markus Münzenberg

"Conversion of light waves: Magnetism from Atto- to Picoseconds timescales"

17:00 Sebastian Goennenwein

"Spin-dependent thermo-galvanic effects"

Thursday

09:30 Anja Waske

"Cooling and Energy Harvesting Using Magnetic Materials"

11:00 Hermann Tempel

"All Solid-State Batteries – A Model Case for Rational Materials Design"

14:00 Shen Guo

"A Brief Introduction to Physical Metallurgy of High-Entropy Alloys"

Friday

09:30 Saskia Fischer

"Function Follows Form: Thermoelectric Effects at the Nanoscale"

11:00 Yan Sun

"Linear and Second order Responses in Materials"

13:30 Stefan Mannsfeld

"Energy Harvesting in Organic Semiconductor Materials"

Agenda

Wednesday 25th		Thursday 26th		Friday 27th	
08:00	Departure IFW	till 09:00	Breakfast	till 09:00	Breakfast (and Check out)
	Arrival in Stettin	09:30-10:30	Lecture 4: Anja Waske	09:30-10:30	Lecture 7: Saskia Fischer
			Coffee		Coffee (and Check out)
11:00-12:00		11:00-12:00	Lecture 5: Hermann Tempel	11:00-12:00	Lecture 8: Yan Sun
	Lunch & Check-In	12:00-13:30	Lunch & Coffee & Foto	12:00-13:30	Lunch & Coffee
14:00-15:00	Lecture 1: Frank Ortman	14:00-15:00	Lecture 6: Shen Guo	13:30-14:30	Lecture 9: Stefan Mannsfeld
	Coffee			15:00	Departure
15:30-16:30	Lecture 2: Markus Münzenberg	15:00/15:30	Social Event	18:00/19:00	Arrival @ IFW
	Coffee				
17:00-18:00	Lecture 3: Sebastian Goennenwein				
18:30-19:30	Dinner	19:30	19:30 Dinner		
20:00	Poster Session		free		