## Day 1 (9.30)

	Registration	8:30-8:50			
Nanlin Wang, and	Opening remarks	8:50-9:00			
Bernhard Keimer					
Session chair: Andreas Schnyder					
Xincheng Xie	Toward dissipationless topotronics	9:00-9:30			
Qingfeng Sun	Theory of chiral-induced spin selectivity in chiral molecule	9:30-10:00			
	systems				
Niclas Heinsdorf	Altermagnetic Instabilities from Quantum Geometry	10:00-10:15			
	(Group Photo & Coffee Break)	10:15-10:45			
Session chair: Xinche	Session chair: Xincheng Xie				
Andreas Schnyder	Quantum metrics, Berry curvature, and (non-linear) Hall effects in	10:45-11:15			
	topological magnets				
Ryuichi Shindou	Quasi-localization phenomena in chiral symmetry classes	11:15-11:45			
Pengwei Zhao	Fractionalization and topological orders in dipoler systems	11:45-12:00			
	12:00-13:30				
Session chair: Stefan Kaiser					
Jian Wang	High-temperature field-free superconducting diode effect in high-	13:30-14:00			
	Tc cuprates				
Yingying Peng	Time-resolved X-ray scattering study of charge order in cuprates	14:00-14:30			
	and TiSe <sub>2</sub>				
Yiran Liu	Spectroscopic study of charge order and pseudogap in the	14:30-14:45			
	homogeneous cuprate superconductor YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub>				
Xiaowen Zhang	Resolving phonons in superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ at sub-	14:45-15:00			
	unit-cell resolution				
(Coffee Break)		15:00-15:30			
Session chair: Jian Wang					
Nanlin Wang	Nonequilibrium and nonlinear Terahertz spectroscopy study on	15:30-16:00			
	Higgs and other collective modes in conventional and				
	unconventional superconductors				
Stefan Kaiser	Higgs spectroscopy on superconductors via phase-resolved THz-	16:00-16:30			
	THG				
Dirk Manske	Theory of Higgs spectroscopy for superconductors: lastest results	16:30-17:00			
Junhan Wang	Terahertz field induced both inversion and time-reversal symmetry	17:00-17:15			
	breaking in PbTe				
Jiawei Zhang	Stacking-selective self-intercalation in Nb <sub>1+x</sub> Se <sub>2</sub>	17:15-17:30			

Day 2 (10.1)

Session chair: Dirk	Session chair: Dirk Manske			
Xiongjun Liu	Symmetry-protected topological quantum computing: theory and experiment	9:00-9:30		
Jianjun Zhang	Silicon-based nanostructures for quantum computing and photonics	9:30-10:00		
Anatoly Obzhirov	Constructing gauge-invariant lattice models for cavity Quantum Electrodynamics	10:00-10:15		
	(Coffee Break)	10:15-10:45		
Session chair: Bern	hard Keimer			
Dennis Huang	Visualizing p-orbital texture in the charge density wave of CeSbTe	10:45-11:15		
Shuang Jia	Giant anomalous Hall and Nernst effects in Ce-based heavy fermions	11:15-11:45		
Lukas Debbeler	Marginal Fermi liquid behavior at flat hot spots at the onset of	11:45-12:00		
	incommensurate density wave order			
	12:00-13:30			
Session chair: Gang Chen				
Bernhard Keimer	Strain modulation of quantum materials status and perspectives	13:30-14:00		
Yuan Li	Investigation of multi-q magnetic orders and transitions in frustrated	14:00-14:30		
	honeycomb cobalt oxides			
Xianghong Jin	Robust triple-q magnetic order with trainable spin vorticity in Na <sub>2</sub> Co <sub>2</sub> TeO <sub>6</sub>	14:30-14:45		
	14:45-15:15			
(Coffee Break) 14:45-15:15  Session chair: Yuan Li				
Gang Chen	SSH stacking, surface fractionalization and anomaly in cluster Mott	15:15-15:45		
	insulator 1T-TaS <sub>2</sub> , and emergent BKT and Kugel-Khomskii physics in			
	bilayer cobaltates			
Fa Wang	Corrected nonlinear spin wave theory	15:45-16:15		
Giovanni Li Manni	Taming Transition-Metal Clusters: A Theoretical Journey into Many-	16:15-16:45		
	Unpaired-Electron Systems			
	16:45-18:00			
(the poster shou	(the poster should hang for the entire meeting at the Hall of the Physics Building)			

## Day 3 (10.2)

Session chair: Nanlin Wang				
Matthias Heptings	New spectroscopic insights into nickelate superconductors	9:00-9:30		
Yi Lu	Dual instability of superconductivity from oxygen defects in La <sub>3</sub> Ni <sub>2</sub> O <sub>7</sub>	9:30-10:00		
Shilong Zhang	Distinct orbital contributions to electronic and magnetic structures in	10:00-10:15		
	La <sub>4</sub> Ni <sub>3</sub> O <sub>10</sub>			
(Coffee Break)		10:15-10:45		
Session chair: Fa Wang				
Xiaobo Lu	Fractional Chern insulators in Moire graphene	10:45-11:15		
Zhida Song	Heavy fermion and Hundness in graphene Moire systems	11:15-11:45		
Renfei Wang	A quantitative investigation of Laughlin pumping in quantum Hall	11:45-12:00		
	effects			
	12:00-13:30			
Session chair: Matthias Heptings				
Christian Ast	New Quantum Limits in Scanning Tunneling Microscopy: From	13:30-14:00		
	Dynamical Coulomb Blockade to Cavity Quantum Electrodynamics			
Yan Zhang	Exotic correlated electronic states in 1T-TaS <sub>2</sub> /TaSe <sub>2</sub>	14:00-14:30		
Lichen Wang	Uniaxial strain control of magnetism in ruthenate	14:30-15:00		
Wenlu Lin	The interaction between nuclear spin and electron Wigner crystal	15:00-15:15		
	15:15-15:25			
	15:25-19:00			