CORPES 2023 PROGRAMME M234, Institute of Physics, Chinese Academy of Sciences, Beijing, China

Sunday, 10th of Sept. 2023

2:00 to 6:00 pm

REGISTRATION Building M, First Floor Insitute of Physics Chinese Academy of Sciences Beijing, China

Invited Presentation (25 minuties talk plus 5 minutes Q&A) Oral Presentation (15 minuties talk plus 5 minutes Q&A)

Monday, 11 th of Sept. 2023							
8:00 am-5:00 pm	Registration						
	Morning Session						
Chair:		Konrad Matho					
9:00-9:10 am		Opening & welcome					
9:10-9:40 am	Mo-01	Sergey Borisenko	IFW-Dresden	Superconducting Arcs			
9:40-10:10 am	Mo-02	Hong Ding	Shanghai Jiao Tong University	Recent Progresses on Iron-Majorana Platform			
10:10-10:30 am	Mo-03	Dongjin Oh	Massachusetts Institute of Technology	Three Dimensional Flat Bands in Pyrochlore Metal CaNi2			
10:30-10:50 am			COFFEE BREA	K			
Chair:		Donglai Feng					
10:50-11:20 am	Mo-04	Adam Kaminski	Ames National Laboratory	Electronic Properties of New Topological Quantum Materials			
11:20-11:40 am	Mo-05	Yogendra Kumar	Graduate School of Advanced Science and Engineering, Hiroshima University	Observation of Topological Surface States in Superconducting PdSeTe Single Crystal			
11:40 am-2:00 pm	LUNCH						
			Afternoon Session				
Chair:	James Freericks						
2:00-2:30 pm	Mo-06	Philipp Werner	University of Fribourg	Nonequilibrium DMFT Approach to RIXS and Raman Scattering			
2:30-3:00 pm	Mo-07	Stefan Blügel	Peter Grünberg Institute and Institute for Advanced Simulation	Electron-Magnon Scattering in Elementary Ferromagnets			
3:00-3:20 pm	Mo-08	Lin Miao	Southeast University, China	Spin-State Excitation Induced Insulator-Metal Transition in FeSb2			
3:20-3:40 pm	Mo-09	Junyu Zong	Nanjing University	Inducing Itinerant Ferromagnetism by Manipulating Van Hove Singularity in Epitaxial Monolayer 1T-VSe2			
3:40-4:00 pm	COFFEE BREAK						
Chair:	Adam Kaminski						
4:00-4:30 pm	Mo-10	Evgueni Tchoulkov	Donostia International Physics Center	Recent Advances in Physics and Materials Science of Magnetic Topological Insulators and Strong Spin-Orbit Coupled Materials			
4:30-4:50 pm	Mo-11	Niels Schröter	Max Planck Institute of Microstructure Physics	New Spin-Momentum Locking and Strong Correlations in Chiral Semimetals			
4:50-5:10 pm	Mo-12	Louat Alex	Diamond Light Source	The Pseudochiral Fermi Surface of α-RuI3			
5:10-5:30 pm	Mo-13	Suyoung Lee	Department of Physics and Astronomy, Seoul National University	Spectroscopic Evidence for Spin Splitting in Altermagnetic MnTe			
5:30-5:50 pm	Mo-14	Jun Fujii	CNR-IOM	Spin-Polarized Electronic States in CoTe ₂			

Tuesday, 12 th of Sept. 2023						
8:00-9:00 am	Registration					
	Morning Session					
Chair:	Masatoshi Imada					
9:00-9:30 am	Tu-01	Donglai Feng	University of Science and Technology of China	Long-Ranged Charge Order Conspired by Magnetism and Lattice in Antiferromagnetic Kagome Metal FeGe		
9:30-10:00 am	Tu-02 Ryotaro Arita Research Center for Advanced Science and Technology, University of Tokyo First-principles Materials Design of Nickelate and Palladate Superco		First-principles Materials Design of Nickelate and Palladate Superconductors			
10:00-10:20 am	Tu-03	Defa Liu	Beijing Normal University	Magnetic Weyl Semimetal in Kagome Lattice Co ₃ Sn ₂ S ₂		
10:20-10:40 am	COFFEE BREAK					

Chair:	Hermann Dürr				
10:40-11:10 am	Tu-04	Changyoung Kim	Seoul National University	Electronic Properties of Atomically Thin Correlated Material Films	
11:10-11:30 am	Tu-05	Santiago Blanco Canosa	Donostia International Physics Center	Softening of a Flat Phonon Mode in the Kagome SeV6Sn6	
11:30-11:50 am	Tu-06	Junfeng He	University of Science and Technology of China	The Role of van Hove Singularities in Kagome Metals	
11:50-12:10 pm	Tu-07	Takami Tohyama	Tokyo University of Science	Spin and Charge Dynamics of Doped One-Dimensional Mott Insulators	
12:10-1:30 pm		LUNCH			
	Afternoon Session				
Chair:	Changyoung Kim				
1:30-2:00 pm	Tu-08	Yulin Chen	University of Oxford	Strong Inter-valley Electron-Phonon Coupling in Magic-Angle Twisted Bilayer Graphene	
2:00-2:30 pm	Tu-09	Kalobaran Maiti	Tata Institute of Fundamental Research	Anomalies at the Dirac Point in Graphene	
2:30-2:50 pm	Tu-10	Gianmarco Gatti	University of Geneva	Orbital and Wavevector Dependence of the Moiré Potential in a Semiconducting Heterobilayer	
2:50-3:10 pm	Tu-11	Nan Xu	Wuhan University	Tailoring Dirac Fermions by In-Situ Tunable High-Order Moiré Pattern	
3:10-3:30 pm	COFFEE BREAK				
Chair:	Cephise Cacho				
3:30-5:00 pm	Poster Flash				
5:00-7:00 pm	Poster Presentation				

Wednesday, 13 th of Sept. 2023						
8:00 am-2:00 pm	Registration					
	Morning Session					
Chair:	Takami Tohyama					
9:00-9:30 am	We-01	Wentao Zhang	Shanghai Jiao Tong University	Ultrafast Photoinduced Phase Transitions in Quantum Materials Revealed by Time- and Angle-Resolved Photoemission Spectroscopy		
9:30-10:00 am	We-02	James Freericks	Georgetown University	Theoretically Describing Pump-Probe Experiments in Electron-Phonon Coupled Systems Out to PS Time Scales		
10:00-10:20 am	We-03	Zhesheng Chen	Nanjing University of Science and Technology	Ultrafast Dynamics of Hot Carriers in Pristine and Electron Accumulation Layers of Indium Selenide		
10:20-10:40 am	COFFEE BREAK					
Chair:	Felix Baümberger					
10:40-11:10 am	We-04	Hermann Dürr	Uppsala University	Real-Time Observation of Phonon-Electron Energy Flow in Laser-Heated Nickel		
11:10-11:30 am	We-05	Maciej Dendzik	КТН	Sub-10 meV Time-Resolved ARPES Setup Using High-Harmonic Generation		
11:30-11:50 am	We-06	Shuo Dong	Institute of Physics, Chinese Academy of Sciences	Observation of Ultrafast Interfacial Meitner-Auger Energy Transfer in a Van der Waals Heterostructure		
11:50 am-2:00 pm	LUNCH					
Afternoon Session						
2:00-6:00 pm	Visit SECUF and HEPS					
6:00-8:00 pm	Banquet					
8:00pm-	Back to IOP					

Thursday, 14 th of Sept. 2023						
8:00-9:00 am		Registration				
	Morning Session					
Chair:	Sergey Borisenko					
9:00-9:30 am	Th-01 Yang Liu		Zhejiang University	Revealing the Momentum-Dependent Heavy Quasiparticles in Ce-Based Kondo Lattice Systems		
9:30-10:00 am	Th-02	A. F. Santander-Syro	Institut des Sciences Moléculaires d'Orsay, Université Paris-Saclay	Imaging the Itinerant-to-Localized Transmutation of Electrons Across the Metal-to-Insulator Transition in $V2O3$		
10:00-10:20 am	Th-03	Jongho park	Seoul National University	Antiperovskite X ₃ SnC: A New Platform for Quantum Phase Transition (X = Lanthanide)		

10:20-10:40 am	Th-04	Tian Qian	Institute of Physics, Chinese Academy of Sciences	Evidence for Single-Band Mott Insulator State in Nb3Cl8 and Excitonic Insulator State in Ta2Pd3Te3		
10:40-11:00 am	COFFEE BREAK					
Chair:		Evgueni Tchoulkov				
11:00-11:30 am	Th-05	Felix Baümberger	Department of Quantum Matter Physics, University of Geneva	How Quasiparticle Die in a Bad Metal		
11:30-11:50 am	Th-06	Konrad Matho	Neel Institute	Analyzing ARPES Data on a Fermi Surface Crossing Path in k-Space		
11:50-12:10 am	Th-07	Yun Yen	Paul Scherrer Institute	Circular Dichroism and Orbital Angular Momentum in Chiral Weyl Semimetals PdGa/PtGa		
12:10-2:00 pm			LUNCH			
	Afternoon Session					
Chair:	Philipp Werner					
2:00-2:30 pm	Th-08	Luca de' Medici	ESPCI Paris France	Mott Quantum Critical Points and Phase Separation at Finite Doping in Hund Metal		
2:30-2:50 pm	Th-09	Jörg Fink	IFW Dresden	Scattering Rates of Quasi-Particles: From Fermi Liquids via Marginal Fermi Liquids to "Super-Planckian" Systems.		
2:50-3:10 pm	Th-10	Lin Zhao	Institute of Physics, Chinese Academy of Sciences	Nodal s± Pairing Symmetry in an Iron-Based Superconductor with only Hole Pockets		
3:10-3:30 pm	COFFEE BREAK					
Chair:	Kalobaran Maiti					
3:30-4:00 pm	Th-11	Masatoshi Imada	Waseda University	Ab Initio Studies, Spectroscopic Signatures, and Fractionalization in Cuprate High-Tc Superconductors		
4:00-4:30pm	Th-12	Yao Wang	Emory University	Phonon-Mediated Attractive Interaction and Its Impact on Cuprate Superconductors		
4:30-4:50 pm	Th-13	Xiangyu Luo	Institute of Physics, Chinese Academy of Sciences	Electronic Origin of High-Te Maximization and Persistence in Trilayer Cuprate Superconductors		
4:50-5:10 pm	Th-14	Wei Ku	Tsung-Dao Lee Institute, Shanghai Jiao Tong University	Probing a Bose Metal via Electrons: Inescapable Non-Fermi Liquid Scattering and Pseudogap Physics		
5:10-5:30 pm	Th-15	Tao Li	Renmin University of China	Several Revealing ARPES Measurements that Should be Conducted on the High-Tc Cuprate Superconductors		

Friday, 15 th of Sept. 2023						
8:00-9:00 am		Registration				
	Morning Session					
Chair:	Andrea F. Santander-Syro					
9:00-9:30 am	Fr-01	Shuyun Zhou	Tsinghua University	Floquet Engineering of a Model Semiconductor		
9:30-9:50 am	Fr-02	Zhihao Jiang	Aarhus University	Visualizing Band Hybridization and Moiré Effects in Gate-Tunable Twisted Graphene Layers Using NanoARPES		
9:50-10:10 am	Fr-03	Mao Ye	Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences	Recent Progress of the High-Resolution Micro-Focused ARPES Beamline at Shang Synchrotron Radiation Facility		
10:10-10:30 am	COFFEE BREAK					
Chair:	Jörg Fink					
10:30-11:00 am	Fr-04	Alessandra Lanzara	Materials Sciences Division, Lawrence Berkeley National Laboratory	Topological Excitonic States and Their Fingerprints on Electronic Structure		
11:00-11:20 am	Fr-05	Will Luckin	University of Bath	Controlling Charge Density Order in 2H-TaSe2 Using a Van Hove Singularity		
11:20-12:00 pm	Best Poster Awards & CORPES 25 & Closing					