Schedule

	5th Friday	6th Saturday	7th Sunday	8th Monday
Chairman		Wei Bao		
		9:00-9:05		
		Sishen Xie		
Chairman		Xincheng Xie	Fuchun Zhang	Thomas Palstra
		9:05-9:40	9:00-9:35	9:00-9:35
		Ruirui Du	Wei Bao	Jian Wang
		9:40-10:15	9:35-10:10	9:35-10:10
		Jinfeng Jia	Philip Phillips	Stephan Haas
		10:15-10:50	10:10-10:45	10:10-10:45
		Werner Wegscheider	Masaki Fujita	Peng Xiong
			10:45-10:50	
			Group Photograph	
		10:50-11:20	10:50-11:20	10:45-11:20
		Coffee Break	Coffee Break	Coffee Break
Chairman		Jiandi Zhang	Masaki Fujita	Andreas Honecker
		11:20-11:55	11:20-11:55	11:20-11:55
		Ward Plummer	Thomas Palstra	Andrey Zheludev
		11:55-12:30	11:55-12:30	11:55-12:30
		Jiandong Guo	Lan Chen	Bruce Normand
		Lunch Break	Lunch Break	Lunch Break
Chairman		Philip Phillips	Jurgen Smet	Ward Plummer
		14:00-14:35	14:00-14:35	14:00-14:35
		Guanghan Cao	Yongqing Li	Jacques Chakhalian
		14:35-15:10	14:35-15:10	14:35-15:10
		Fuchun Zhang	Xincheng Xie	Jiandi Zhang
		15:10-16:30	15:10-16:20	15:10-16:00
		Coffee Break and	Coffee Break and	Coffee Break and
		Poster Session	Poster Session	Poster Session
Chairman		Bruce Normand	Lin Gu	Werner Wegscheider
		16:30-17:05	16:20-16:55	16:00-16:35
		Andreas Honecker	Yimei Zhu	Jurgen Smet
		17:05-17:40	16:55-17:30	16:35-17:10
		Je-Geun Park	Jianmin Zuo	Ke He
	18:00-19:00 Welcome	17:40-18:15		17:10-17:15
	Reception	Tao Xiang		Closing Remarks
	19:00 Dinner	19:00 Dinner	19:00 Banquet	18:30 Dinner

Program

Friday 5th June

- 18:00 19:00 Welcome Reception in Department of Physics, Renmin University
- 19:00 20:30 Dinner in Renmin University

Saturday 6th June

Opening of the Workshop in Auditorium M234 of Institute of Physics, CAS

- Chaired by Wei Bao
- 09:00 09:05 Welcome Remarks, Sishen Xie, Dean of Science, Renmin University

Morning Session 1: Topological Insulators I -- Edge States and Majorana Fermions

- Chaired by Xincheng Xie
- 09:05 09:40 Ruirui Du (Peking University) Ultralow Temperature Transport of InAs/GaSb Edge States: Helical Luttinger Liquid
- 09:40 10:15 Jinfeng Jia (Shanghai Jiaotong University)

Majorana mode in the vortex core and single-layer FeSe on $SrTiO_3$ with a superconducting T_c above 100 K

10:15 - 10:50 Werner Wegscheider (ETH Zurich)

InAs/GaSb combined quantum wells - from an old material to a new 2D topological insulator

10:50 - 11:20 Coffee Break

Morning Session 2: Surface Phenomena

Chaired by Jiandi Zhang

11:20 - 11:55 Ward Plummer (Louisiana State University)

The Marriage of Spin and Lattice by the Minister of Charge at the Surface of Layered Transition Metal Compounds

11:55 - 12:30 Jiandong Guo (IoP CAS)

A New HREELS System with 2D Energy/Momentum Resolution – Design and Applications

12:30 - 14:00 Lunch Break

Afternoon Session 3: Superconductivity I -- Novel Superconductors

Chaired by Philip Philips

14:00 - 14:35 Guanghan Cao (Zhejiang University) Superconductivity and magnetism in Cr₃As₃ chain-based materials

14:35 - 15:10 Fuchun Zhang (Zhejiang University)

Theory for superconductivity in alkali chromium arsenides K₂Cr₃As₃

15:10 - 16:30 Coffee Break and Poster Session

Afternoon Session 4: Quantum Magnetism I Frustration and Dynamics				
Chaired by	Bruce Normand			
16:30 - 17:05	Andreas Honecker (University of Cergy-Pontoise)			
	Finite-temperature dynamics of highly frustrated quantum magnets			
17:05 - 17:40	Je-Geun Park (Seoul National University)			
	Probing new features of spin dynamics in $RMnO_3$ and Li_2RuO_3			
17:40 - 18:15	Tao Xiang (IoP CAS)			
	Tensor-Network Renormalization of the Kagome Heisenberg Model			
19:00	Dinner			

Sunday 7th June

Morning Session 1: Superconductivity II -- Correlated Superconductors

- Chaired by Fuchun Zhang
- 09:00 09:35 Wei Bao (Renmin University) Orbital ordering, phase separation, and high-pressure neutron scattering studies of the 245 iron-based superconductors
- 09:35 10:10 Philip Phillips (University of Illinois at Urbana-Champaign) Orbital or Spin Physics in the Iron Pnictide Superconductors
- 10:10 10:45 Masaki Fujita (Tohoku University)

Magnetic excitations in electron-doped Pr_{1.40-x}La_{0.60}Ce_xCuO_{4-y}

- 10:45 10:50 Group Photograph
- 10:50 11:20 Coffee Break

Morning Session 2: Novel Materials

- Chaired by Masaki Fujita
- 11:20 11:55 Thomas Palstra (University of Groningen)

Multifunctional Properties of Organic-Inorganic Hybrid Compounds

11:55 - 12:30 Lan Chen (IoP CAS)

Experimental realization and characterization of silicene

12:30 - 14:00 Lunch Break

Afternoon Session 3: Topological Insulators II -- Localization

- Chaired by Jurgen Smet
- 14:00 14:35 Yongqing Li (IoP CAS)

Electron localization in 3D topological insulator thin films

14:35 - 15:10 Xincheng Xie (Peking University)

Dephasing and disorder effects in topological insulators

15:10 - 16:20 Coffee Break and Poster Session

Afternoon Session 4: Probing Complex Surfaces

Chaired by	Lin Gu	
16:20 - 16:55	Yimei Zhu (Brookhaven National Laboratory)	
	Understanding electron-phonon coupling and disentangling charge, orbital	
	and lattice contributions using ultrafast electron probes	
16:55 - 17:30 Jianmin Zuo (University of Illinois at Urbana-Champaign)		
	Symmetry and bonding in oxides and chalcogenides	
17:30	Leave IoP for transit to banquet venue	
19:00	Banquet	

Monday 8th June

Morning Session 1: Superconductivity III -- Two-dimensional Superconductors

- Chaired by Thomas Palstra
- 09:00 09:35 Jian Wang (Peking University) Superconductivity at the 2D limit and potential topological superconductivity in 3D Dirac semimetal
- 09:35 10:10 Stephan Haas (University of Southern California) Phase Diagram of the Dichalcogenides

10:10 - 10:45 Peng Xiong (Florida State University):

Magnetic Field Induced Super-Insulating State and Enhancement of Superconductivity in Ultrathin Pb Films

10:45 - 11:20 Coffee Break

Morning Session 2: Quantum Magnetism II -- Quantum Criticality

- Chaired by Andreas Honecker
- 11:20 11:55 Andrey Zheludev (ETH Zurich) New advances on the z = 1 QCP in gapped quantum magnets
- 11:55 12:30 Bruce Normand (Renmin University)

Quantum and classical criticality in a dimerised quantum antiferromagnet

12:30 - 14:00 Lunch Break

Afternoon Session 3: Artificial Oxide Interfaces

- Chaired by Ward Plummer
- 14:00 14:35 Jacques Chakhalian (University of Arkansas)

Novel orbital Kondo effect in tricolor oxide superlattices

14:35 - 15:10 Jiandi Zhang (Louisiana State University)

Surface termination, interface mixing, and layer-by-layer doping variation of ultrathin manganite films

15:10 - 16:00 Coffee Break and Poster Session

Afternoon Session 4: Quantum Hall Effects -- Fractional and Anomalous

- Chaired by Werner Wegscheider
- 16:00 16:35 Jurgen Smet (MPI Stuttgart) Odd even-denominator fractional quantum Hall physics in ZnO-based two-dimensional electron systems
- 16:35 17:10Ke He (Tsinghua University)The Quantum Anomalous Hall Effect in Thin Films of Magnetic Topological Insulators
- 17:10 17:15 Closing Remarks
- 18:30 Dinner in Zhongguancun