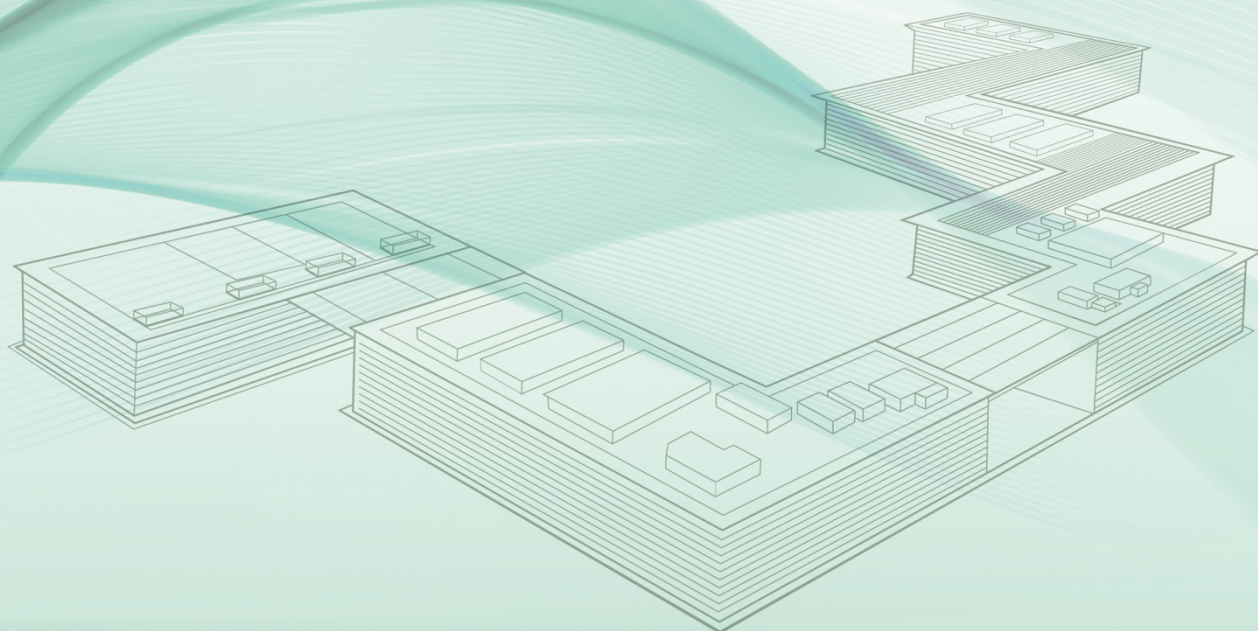




CONFERENCE OF CONDENSED MATTER PHYSICS 2023

Yangtze River Delta Physics Research Center, Liyang, China

August 6–11, 2023



Conference Schedule

DAY August 6 (Sunday): Registration Day

DAY August 7 (Monday)	DAY August 8 (Tuesday)	DAY August 9 (Wednesday)	DAY August 10 (Thursday)	DAY August 11 (Friday)
Opening Remarks Plenary Talks 9:00-12:30	Parallel Sessions 9:00-12:30	Plenary Talks 9:00-10:40 Parallel Sessions 11:00-12:30	Plenary Talks 9:00-10:40 Parallel Sessions 11:00-12:30	Parallel Sessions 9:00-10:30 Plenary Talks 10:50-12:30
Lunch Time 12:30-14:00	Lunch Time 12:30-14:00	Lunch Time 12:30-14:00	Lunch Time 12:30-14:00	Lunch Time 12:30-14:00
Parallel Sessions 14:00-17:30	Parallel Sessions 14:00-17:30 Meet APS Editor 19:30-20:30	Poster Session 14:00-17:30 Banquet 18:30	Parallel Sessions 14:00-17:30	

- Meet APS Editor: International Exchange Center 1F: Cafeteria
- Banquet: Blue Ocean Lindun Hotel, Liyang



Venue Map



I. PLENARY SESSION
Monday, August 7

International Exchange Center, Lecture Hall

Chair: Donglai Feng (University of Science and Technology of China)

9:00-9:15	Opening Remarks Tao Xiang Institute of Physics, Chinese Academy of Sciences
9:15-10:05	Hongjun Gao Institute of Physics, Chinese Academy of Sciences Ordered and tunable Majorana-zero-mode lattice in naturally-strained LiFeAs
Coffee break 10:05-10:30	
Chair: Haiqing Lin (Zhejiang University)	
10:30-11:20	David Gershoni Technion Israel Institute of Technology, Israel Guangdong Technion Israel Institute of Technology Semiconductor quantum dots as deterministic sources of indistinguishable photons in entangled cluster states
11:20-12:10	Jiangping Hu Institute of Physics, Chinese Academy of Sciences Topological physics in iron-based superconductors
Lunch 12:30-14:00	

Wednesday, August 9

International Exchange Center, Lecture Hall

Chair: Fuchun Zhang (Kavli ITS, UCAS)

9:00-9:50	Feng Miao Nanjing University Atomic Lego for future computing
9:50-10:40	Binghai Yan Weizmann Institute of Science, Israel Topology and chirality in chiral quantum materials
Coffee break 10:40-11:00	



Thursday, August 10

International Exchange Center, Lecture Hall

Chair: Xingao Gong (Fudan University)

9:00-9:50	<p>Nigel Hussey University of Bristol, UK</p> <p>Strange metallicity and high-T_c superconductivity: simple observations with profound implications</p>
9:50-10:40	<p>Yulin Chen University of Oxford, UK</p> <p>Exploring low dimensional electronic structures in quantum materials</p>
<p>Coffee break 10:40-11:00</p>	

Friday, August 11

International Exchange Center, Lecture Hall

Chair: Jiangping Hu (Institute of Physics, Chinese Academy of Sciences)

10:50-11:40	<p>Shuyun Zhou Tsinghua University</p> <p>Floquet engineering of a model semiconductor</p>
11:40-12:30	<p>Jainendra K. Jain The Pennsylvania State University, USA</p> <p>A flood of nontrivial emergences in the fractional quantum Hall effects</p>
12:30-12:45	<p>Best Poster Award Ceremony</p>
<p>Lunch 12:45-14:00</p>	



II. PARALLEL SESSIONS

Monday, August 7

Lakeside Conference Center, Huguang Hall

Chair: Xingjiang Zhou (Institute of Physics, Chinese Academy of Sciences)

14:00-14:30	<p style="text-align: center;">Meng Wang Sun Yat-sen University Superconductivity near 80 K in $\text{La}_3\text{Ni}_2\text{O}_7$ under pressure</p>
14:30-15:00	<p style="text-align: center;">Danfeng Li City University of Hong Kong Superconductivity in thin-film infinite-layer nickelates: materials synthesis</p>
15:00-15:30	<p style="text-align: center;">Yao Shen Institute of Physics, Chinese Academy of Sciences Electronic structure and charge order in square-planar low-valence nickelates</p>
Coffee break 15:30-15:50	
Chair: Nanlin Wang (Peking University)	
15:50-16:20	<p style="text-align: center;">Donglai Feng University of Science and Technology of China Intriguing electronic structures of quadruple-layer iron pnictide and cuprate superconductors</p>
16:20-16:50	<p style="text-align: center;">Xingjiang Zhou Institute of Physics, Chinese Academy of Sciences Laser ARPES study on electron-phonon coupling and electronic origin of high-T_c in cuprate superconductors</p>
16:50-17:20	<p style="text-align: center;">Ming Shi Paul Scherrer Institut Unconventional electronic instabilities in Kagome superconductors</p>



Tuesday, August 8

Lakeside Conference Center, Huguang Hall

Chair: Donglai Feng (University of Science and Technology of China)

9:00-9:30	<p>Guoqing Zheng Okayama University Tuning the nematic director in spin-triplet superconductors $Cu_xBi_2Se_3$ and $K_2Cr_3As_3$</p>
9:30-10:00	<p>Y.Onose Tohoku University Magnetic domain control by the inverse of nonreciprocal responses</p>
10:00-10:30	<p>Liling Sun Institute of Physics, Chinese Academy of Sciences Quantum phase transition in high-Tc superconductors</p>
Coffee break 10:30-11:00	
Chair: Changyoung Kim (Seoul National University)	
11:00-11:30	<p>Alfred Zong University of California, Berkeley Spin-mediated shear oscillators in a van der Waals antiferromagnet</p>
11:30-12:00	<p>Wentao Zhang Shanghai Jiao Tong University Photoinduced phase transitions in quantum materials revealed by time-and angle-resolved photoemission spectroscopy</p>
12:00-12:30	<p>Sijie Zhang Peking University Light-induced melting of competing stripe orders without introducing superconductivity in $La_{1.875}Ba_{0.125}CuO_4$</p>
Lunch 12:30-14:00	



Tuesday, August 8

Lakeside Conference Center, Huguang Hall

Chair: Haihu Wen (Nanjing University)

14:00-14:30	<p style="text-align: center;">Kazushi Kanoda University of Tokyo</p> <p>Non-Fermi liquidity, quantum criticality, and BEC-like pairing in a doped spin-liquid candidate</p>
14:30-15:00	<p style="text-align: center;">Weiqiang Yu Renmin University of China</p> <p>Experimental evidence of a proximate deconfined quantum critical point in a Shastry-Sutherland compound $\text{SrCu}_2(\text{BO}_3)_2$</p>
15:00-15:30	<p style="text-align: center;">Yuan Li Peking University</p> <p>Unveiling multi-q magnetic ground states in honeycomb cobaltates: implications for quantum spin liquids</p>
Coffee break 15:30-15:50	
Chair: Hong Yao (Tsinghua University)	
15:50-16:20	<p style="text-align: center;">Haihu Wen Nanjing University</p> <p>Closely intertwined relationship between superconductivity and antiferromagnetic order in cuprate superconductors</p>
16:20-16:50	<p style="text-align: center;">K. Ishida Kyoto University</p> <p>NMR Studies on ferromagnetic superconductor UCoGe</p>
16:50-17:20	<p style="text-align: center;">Changyoung Kim Seoul National University</p> <p>Experimental observation of broken Kramer's degeneracy in altermagnetic MnTe</p>



Wednesday, August 9

Lakeside Conference Center, Huguang Hall

Chair: Yuan Li (Peking University)

11:00-11:30	<p style="text-align: center;">Hong Yao Tsinghua University High-temperature superconductivity induced by the Su-Schrieffer-Heeger electron-phonon coupling</p>
11:30-12:00	<p style="text-align: center;">Yuxuan Wang University of Florida Nodal higher-order topological superconductivity from a C4-symmetric Dirac semimetal</p>
12:00-12:30	<p style="text-align: center;">Yingfei Gu Tsinghua University SYK model and manybody quantum chaos</p>

Thursday, August 10

Lakeside Conference Center, Huguang Hall

Chair: Kenji Ishida (Kyoto University)

11:00-11:30	<p style="text-align: center;">Huiqiu Yuan Zhejiang University Strange metal behavior, superconductivity and quantum criticality in correlated systems</p>
11:30-12:00	<p style="text-align: center;">Shota Suetsugu Kyoto University Fully gapped pairing state in spin-triplet superconductor UTe₂</p>
12:00-12:30	<p style="text-align: center;">Haoliang Li The Hong Kong University of Science and Technology (Guangzhou) Massive electronic correlations in planar trilayer nickelate Pr₄Ni₃O₈</p>
Lunch 12:30-14:00	



Thursday, August 10

Lakeside Conference Center, Huguang Hall

Chair: Kui Jin (Institute of Physics, Chinese Academy of Sciences)

14:00-14:30	<p>Jiaxin Yin Southern University of Science and Technology From Kagome magnet to magnetic superconductivity</p>
14:30-15:00	<p>Jian Wang Peking University Pair density wave state in a monolayer high-Tc iron-based superconductor</p>
15:00-15:30	<p>Pavel D. Grigoriev Landau Institute for Theoretical Physics & NUST MISiS Anisotropic superconductivity onset in iron-based and organic superconductors</p>
<p>Coffee break 15:30-15:50</p>	
<p>Chair: Huiqiu Yuan (Zhejiang University)</p>	
15:50-16:20	<p>Kui Jin Institute of Physics, Chinese Academy of Sciences Scaling relations in high-Tc superconductors</p>
16:20-16:50	<p>Yung-Yeh Chang National Center for Theoretical Sciences Theory of topological Kondo superconductors: an application to UTe_2</p>
16:50-17:20	<p>Han-Yong Choi SungKyunKwan University Maximal superconductivity in proximity to CDW phase in Cu intercalated $TiSe_2$</p>

Friday, August 11

Lakeside Conference Center, Huguang Hall

Chair: Han-Yong Choi (SungKyunKwan University)

9:00-9:30	<p>Yanwu Xie Zhejiang University</p> <p>Superconducting pair correlations and anomalous negative magnetoresistance in nanohoneycomb patterned $\text{LaAlO}_3/\text{KTaO}_3$ interface superconductor</p>
9:30-10:00	<p>Hui Xing Shanghai Jiao Tong University</p> <p>Nernst effect in strange metals</p>
10:00-10:30	<p>Runze Chi Institute of Physics, Chinese Academy of Sciences</p> <p>Spin excitation spectra of anisotropic spin-1/2 triangular lattice heisenberg antiferromagnets</p>
<p>Coffee break 10:30-10:50</p>	



Monday, August 7

Lakeside Conference Center, Tianmu Hall

Chair: Xiangang Wan (Nanjing University)

14:00-14:30	<p>Ji Feng Peking University An implementation of density functional perturbation theory for generalized response functions in the PAW framework</p>
14:30-15:00	<p>Jinjian Zhou Beijing Institute of Technology Advances in ab initio electron-phonon interactions and electron dynamics</p>
15:00-15:30	<p>Guangyu Guo National Taiwan University Bulk photovoltaic effect in low-dimensional semiconductors: ab initio studies</p>
<p>Coffee break 15:30-15:50</p>	
<p>Chair: Guangyu Guo (National Taiwan University)</p>	
15:50-16:20	<p>Shengjun Yuan Wuhan University Large-scale computational physics method based on wave propagation</p>
16:20-16:50	<p>Jianpeng Liu ShanghaiTech University Interaction effects and quantum Hall physics in new types of graphene and graphite superlattice systems</p>
16:50-17:20	<p>Weibin Chu Fudan University Machine learning accelerated excited state carrier dynamics simulation?</p>
17:20-17:50	<p>Zhicheng Zhong Ningbo Institute of Materials Technology and Engineering Large-scale atomistic simulation of quantum effects in SrTiO₃ from first principles</p>

Tuesday, August 8

Lakeside Conference Center, Tianmu Hall

Chair: Feng Liu (University of Utah)

9:00-9:30	<p>S. Y. Savrasov University of California, Davis Fermi Arcs conductivity of Weyl and Dirac semimetals</p>
9:30-10:00	<p>Zhijun Wang Institute of Physics, Chinese Academy of Sciences Topological and excitonic states in Ta₂Pd₃Te₅</p>
10:00-10:30	<p>Qihang Liu Southern University of Science and Technology Spin crystalline group in magnetic materials</p>
<p>Coffee break 10:30-11:00</p>	
<p>Chair: S. Y. Savrasov (University of California, Davis)</p>	
11:00-11:30	<p>Feng Liu University of Utah Excitonic condensation in topological flat bands</p>
11:30-12:00	<p>Alexandre Tkatchenko Université du Luxembourg Fully quantum (bio) molecular simulations: dream or reality?</p>
12:00-12:30	<p>Priya Mahadevan S.N. Bose National Centre for Basic Sciences, India Why do twisted bilayers behave differently from their untwisted counterparts?</p>
<p>Lunch 12:30-14:00</p>	



Tuesday, August 8

Lakeside Conference Center, Tianmu Hall

Chair: Wei Li (Institute of Theoretical Physics, Chinese Academy of Sciences)

14:00-14:30	<p>Yusuke Nomura Keio University</p> <p>Artificial neural networks for analyzing quantum many-body correlations</p>
14:30-15:00	<p>Gian-Marco Rignanes Université Catholique de Louvain (UCL) in Belgium</p> <p>Combining the power of high-throughput ab initio calculations and machine learning towards materials informatics</p>
15:00-15:30	<p>Wanjian Yin Soochow University</p> <p>Design of energy conversion materials by computation and AI</p>
<p>Coffee break 15:30-15:50</p>	
<p>Chair: Gian-Marco Rignanes (Université catholique de Louvain in Belgium)</p>	
15:50-16:20	<p>Sergey Artyukhin Istituto Italiano di Tecnologia, Italy</p> <p>Topological aspects of switching in magnetic and multiferroic materials</p>
16:20-16:50	<p>Wei Li Institute of Theoretical Physics, Chinese Academy of Sciences</p> <p>Thermal tensor network approaches for 2D Fermi-Hubbard model</p>
16:50-17:20	<p>Zhenglu Li University of Southern California</p> <p>Correlation-enhanced electron-phonon interaction in oxide superconductors from first-principles GW perturbation theory</p>

Wednesday, August 9

Lakeside Conference Center, Tianmu Hall

Chair: Oleg Yazzev (Ecole Polytechnique Federale de Lausanne)

11:00-11:30	<p>Jian Sun Nanjing University Crystal structure prediction method magus and its applications</p>
11:30-12:00	<p>Yu Xie Jilin University Prediction of high-temperature metal boride superconductors and introduction of real-space large-scale simulation software package</p>
12:00-12:30	<p>Yunhao Lu Zhejiang University Emerging ferroelectricity in two-dimensional single-element materials</p>

Thursday, August 10

Lakeside Conference Center, Tianmu Hall

Chair: Hongjun Xiang (Fudan University)

11:00-11:30	<p>Gang Li ShanghaiTech University Correlated flat bands in a pristine solid and the cluster Mott insulating state</p>
11:30-12:00	<p>Changsong Xu Fudan University Stacking bilayer ferroelectricity and ferrovalley</p>
12:00-12:30	<p>Changming Yue Southern University of Science and Technology Strong correlation and unconventional superconductivity in bulk and trilayer alkali-doped fullerides</p>
<p>Lunch 12:30-14:00</p>	



Thursday, August 10

Lakeside Conference Center, Tianmu Hall

Chair: Sergey Artyukhin (Istituto Italiano di Tecnologia, Italy)

14:00-14:30	<p>Oleg Yazyev Ecole Polytechnique Federale de Lausanne In silico discovery of novel topological materials</p>
14:30-15:00	<p>Gang Xu Huazhong University of Science and Technology How to design topological superconductors from ab initio calculations</p>
15:00-15:30	<p>Junwei Liu The Hong Kong University of Science and Technology Piezomagnetism and noncollinear spin current without spin-orbital coupling</p>
<p>Coffee break 15:30-15:50</p>	
<p>Chair: Gang Xu (Huazhong University of Science and Technology)</p>	
15:50-16:20	<p>Yong Xu Tsinghua University Deep-learning electronic structure calculation</p>
16:20-16:50	<p>Ji Chen Peking University Electronic structure calculation with neural network quantum Monte Carlo</p>
16:50-17:20	<p>Xiang Li ByteDance Simulating solids via neural network ansatz</p>

Friday, August 11

Lakeside Conference Center, Tianmu Hall

Chair: Zhongyi Lu (Renmin University of China)

9:00-9:30	<p>Mingpu Qin</p> <p>Shanghai Jiao Tong University</p> <p>Augmenting density matrix renormalization group with disentanglers</p>
9:30-10:00	<p>Zhiyuan Xie</p> <p>Renmin University of China</p> <p>Suppression of order parameter by spin-orbital frustration & neural networks with explicit coarse-grained structure</p>
10:00-10:30	<p>Chun Chen</p> <p>Shanghai Jiao Tong University</p> <p>Dynamical phase diagram of Rydberg blockade array</p>
<p>Coffee break 10:30-10:50</p>	

10PLY



Monday, August 7

Lakeside Conference Center, Zhuyin Hall

Chair: Xiongjun Liu (Peking University)

14:00-14:30	<p>Mark Everitt Loughborough University Quantum mechanics of anything as a statistical theory (with applications)?</p>
14:30-15:00	<p>Dongling Deng Tsinghua University Quantum adversarial machine learning: from theory to experiment</p>
15:00-15:30	<p>Zi Cai Shanghai Jiaotong University Feedback-induced interactive dynamics: unitary but dissipative evolution</p>
<p>Coffee break 15:30-15:50</p>	
<p>Chair: Dongling Deng (Tsinghua University)</p>	
15:50-16:20	<p>Xiongjun Liu Peking University Symmetry-protected non-Abelian statistics: from Majorana modes to parafermions</p>
16:20-16:50	<p>Changling Zou University of Science and Technology of China Simulation and control of open systems</p>
16:50-17:20	<p>Han Cai (Dawei Wang) Zhejiang University Quantum simulation in superradiance lattices</p>
17:20-17:50	<p>Chao Song Zhejiang University Exploring topological phases with superconducting circuits</p>



Tuesday, August 8

Lakeside Conference Center, Zhuyin Hall

Chair: Yang Yu (Nanjing University)

9:00-9:30	<p>Luyan Sun Tsinghua University Quantum error correction based on bosonic codes</p>
9:30-10:00	<p>Christopher Eichler Friedrich-Alexander-Universität Erlangen-Nürnberg Building superconducting quantum hardware towards error-corrected quantum computing</p>
10:00-10:30	<p>Fei Yan Beijing Academy of Quantum Information Sciences Towards scalable quantum information processing with superconducting qubits: from architecture to algorithm compilation</p>
Coffee break 10:30-11:00	
Chair: Luyan Sun (Tsinghua University)	
11:00-11:30	<p>Jianqiang You Zhejiang University Quantum control of a single magnon</p>
11:30-12:00	<p>Prasanna Pakkiam University of Queensland Qubit-controlled directional edge states in waveguide QED</p>
12:00-12:30	<p>Yang Yu Nanjing University Simulation of parity magnetic effect in superconducting qubits</p>
Lunch 12:30-14:00	



Tuesday, August 8

Lakeside Conference Center, Zhuyin Hall

Chair: Jianqiang You (Zhejiang University)

14:00-14:30	<p>Zongquan Zhou University of Science and Technology of China Distributed quantum computing over 7 km</p>
14:30-15:00	<p>Youpeng Zhong Southern University of Science and Technology A modular approach for building large scale superconducting quantum processors</p>
15:00-15:30	<p>Ming Gong University of Science and Technology of China Progress in noisy intermediate scale superconducting quantum computing</p>
<p>Coffee break 15:30-15:50</p>	
<p>Chair: Chao Song (Zhejiang University)</p>	
15:50-16:20	<p>Zhangqi Yin Beijing Institute of Technology Experimentally demonstrating indefinite causal order algorithms to solve the generalized Deutsch's problem</p>
16:20-16:50	<p>Dario Poletti Singapore University of Technology and Design Studying quantum transport on a quantum computer</p>
16:50-17:20	<p>Lei Ying Zhejiang University Quantum many-body Hilbert scars: from origin to application</p>
17:20-17:50	<p>Zhirong Lin Shanghai Institute of Microsystem and Information Technology, CAS Superconducting electronics for control and readout of superconducting qubit</p>

Wednesday, August 9

Lakeside Conference Center, Zhuyin Hall

Chair: Zhangqi Yin (Beijing Institute of Technology)

11:00-11:30	<p style="text-align: center;">Kihwan Kim Tsinghua University</p> <p>Revealing multi-time quantum statistics without measurement back-action</p>
11:30-12:00	<p style="text-align: center;">Yiheng Lin University of Science and Technology of China</p> <p>Quantum control, simulation and metrology with multi-level trapped ions</p>
12:00-12:30	<p style="text-align: center;">Wei Zhang Renmin University of China</p> <p>Experimental simulation of non-Hermitian Hamiltonian with trapped ion</p>

Thursday, August 10

Lakeside Conference Center, Zhuyin Hall

Chair: Biao Wu (Peking University)

11:00-11:30	<p style="text-align: center;">Jietai Jing East China Normal University</p> <p>Generation, manipulation and application of quantum light sources based on atomic ensembles</p>
11:30-12:00	<p style="text-align: center;">Xifeng Ren University of Science and Technology of China</p> <p>On-chip quantum photonic sources</p>
12:00-12:30	<p style="text-align: center;">Huangjun Zhu Fudan University</p> <p>Efficient verification of ground states of frustration-free hamiltonians</p>
Lunch 12:30-14:00	



Thursday, August 10

Lakeside Conference Center, Zhuyin Hall

Chair: Jietai Jing (East China Normal University)

14:00-14:30	<p style="text-align: center;">Biao Wu Peking University Quantum icebox algorithm</p>
14:30-15:00	<p style="text-align: center;">Xin Liu Huazhong University of Science and Technology Topological quantum computing in iron-based superconducting nanowires</p>
15:00-15:30	<p style="text-align: center;">Shuo Yang Tsinghua University Quantum error mitigation via matrix product operators</p>
Coffee break 15:30-15:50	
Chair: Shuo Yang (Tsinghua University)	
15:50-16:20	<p style="text-align: center;">Ye Wang University of Science and Technology of China Error mitigation at the gate and the circuit level in a trapped-ion quantum computer</p>
16:20-16:50	<p style="text-align: center;">Jinguo Liu Hong Kong University of Science and Technology (Guangzhou) Harnessing natural compounds for universal quantum computing</p>
16:50-17:20	<p style="text-align: center;">Dingshun Lv ByteDance Research Quantum computing and quantum embedding for large-scale electronic structure problem</p>
17:20-17:50	<p style="text-align: center;">Shiqian Ding Tsinghua University Spectroscopy of ^{229}Th isomer transition towards a nuclear optical clock</p>

Friday, August 11

Lakeside Conference Center, Zhuyin Hall

Chair: Heng Fan (Institute of Physics, Chinese Academy of Sciences)

<p>9:00-9:30</p>	<p>Weibin Li University of Nottingham Explore non-equilibrium physics with strong Rydberg interactions</p>
<p>9:30-10:00</p>	<p>Lin Li Huazhong University of Science and Technology Photonic quantum information processing with Rydberg atoms</p>
<p>10:00-10:30</p>	<p>Pan Zhang Institute of Theoretical Physics, Chinese Academy of Sciences qecGPT: decoding quantum error correction codes with the generative pretrained transformers</p>
<p>Coffee break 10:30-10:50</p>	

ICMP



Monday, August 7

International Exchange Center, Lecture Hall

Chair: Zhesen Yang (Xiamen University)

14:00-14:30	<p>Masatoshi Sato Kyoto University Point-gap topological phases from topological materials</p>
14:30-15:00	<p>Tong Zhou Eastern Institute for Advanced Study Towards non-Abelian statistics in topological planar Josephson junctions</p>
15:00-15:30	<p>Xiaodong Zhou Fudan University Scanning microwave impedance microscopy study of magnetic topological insulator MnBi_2Te_4</p>

Coffee break 15:30-15:50
Chair: Haizhou Lu (Southern University of Science and Technology)

15:50-16:20	<p>Tomoya Higo University of Tokyo Electrical manipulation and detection of chiral antiferromagnetic order in multilayer films based on the topological antiferromagnet Mn_3Sn</p>
16:20-16:50	<p>Glenn Wagner Universität Zürich Phenomenology of bond and flux orders in Kagome metals</p>
16:50-17:20	<p>Zengwei Zhu Huazhong University of Science and Technology Anomalous transverse thermal and thermoelectric response in topological magnets</p>
17:20-17:50	<p>Lin He Beijing Normal University Quantum confinement of Dirac fermions</p>
17:50-18:20	<p>Shiming Lei The Hong Kong University of Science and Technology Weyl nodal-ring states and large, nonsaturating magnetoresistance in layered square-net magnets</p>



Tuesday, August 8

International Exchange Center, Lecture Hall

Chair: Jian Wang (Peking University)

9:00-9:30	<p>Ziqiang Wang Boston College Kagome metals and superconductors</p>
9:30-10:00	<p>Jianting Ye University of Groningen Field-effect control of clean superconductivity and orbital FFLO states in 2D materials</p>
10:00-10:30	<p>Liang Qiao University of Electronic Science and Technology of China Critical role of hydrogen in nickelate superconductors</p>
<p>Coffee break 10:30-11:00</p>	
<p>Chair: Jian Wang (Peking University)</p>	
11:00-11:30	<p>Takashi Uchihashi National Institute for Materials Science, Tsukuba, Ibaraki Surface atomic-layer superconductors: from Josephson vortex to dynamic spin-momentum locking</p>
11:30-12:00	<p>Canhua Liu Shanghai Jiao Tong University Superconductivity and pseudo-magnetic field in Ca-intercalated graphene</p>
12:00-12:30	<p>Fengqi Song Nanjing University Quantum Hall effect and nonreciprocal charge transport in topological insulator</p>
<p>Lunch 12:30-14:00</p>	



Tuesday, August 8

International Exchange Center, Lecture Hall

Chair: Zhida Song (Peking University)

14:00-14:30	<p>Gerrit Bauer Tohoku University Excitations of magnetic and electric dipolar order</p>
14:30-15:00	<p>Sunghun Kim Ajou University Coexistence of distinct surface states on the layered electride</p>
15:00-15:30	<p>Peizhe Tang Beihang University Unconventional excitonic states with phonon sideband in layered SiP₂ and moiré physics in its heterostructure</p>
Coffee break 15:30-15:50	
Chair: Peizhe Tang (Beihang University)	
15:50-16:20	<p>Steffen Wirth Max Planck Institute for Chemical Physics of Solids Electronic inhomogeneity: from topology to polaron formation</p>
16:20-16:50	<p>Shuichi Murakami Tokyo Institute of Technology Anomalous crystal shapes of topological crystalline insulators</p>
16:50-17:20	<p>Zhida Song Peking University Spin space groups: full classification and applications</p>
17:20-17:50	<p>Zhesen Yang Xiamen University Dynamical degeneracy splitting and non-Hermitian skin effect</p>



Wednesday, August 9

International Exchange Center, Lecture Hall

Chair: Chen Fang (Institute of Physics, Chinese Academy of Sciences)

11:00-11:30	<p>Haruki Watanabe The University of Tokyo Spin models for spontaneous symmetry breaking, topological orders, and fractons with weird ground state degeneracy</p>
11:30-12:00	<p>Luyi Yang Tsinghua University Ultrafast magnetization and coherent magnon dynamics in a 2D antiferromagnet MnBi₂Te₄</p>
12:00-12:30	<p>Xiang Yuan East China Normal University Discovery of one-dimensional Weyl fermion from a topological insulator</p>

Thursday, August 10

International Exchange Center, Lecture Hall

Chair: Yang Xu (Institute of Physics, Chinese Academy of Sciences)

11:00-11:30	<p>Qingfeng Sun Peking University Thermal dissipation in the quantum Hall regime</p>
11:30-12:00	<p>Hongtao Yuan Nanjing University Emergent non-linear phenomena via symmetry engineering at van der Waals heterointerfaces</p>
12:00-12:30	<p>Lin Jiao Zhejiang University Visualizing topological edge states in selected strongly correlated materials</p>

Lunch 12:30-14:00



Thursday, August 10

International Exchange Center, Lecture Hall

Chair: Lin Jiao (Zhejiang University)

14:00-14:30	<p style="text-align: center;">Hechang Lei Renmin University of China</p> <p style="text-align: center;">Exploration of Kagome materials with weak interlayer interaction</p>
14:30-15:00	<p style="text-align: center;">Yang Xu Institute of Physics, Chinese Academy of Sciences</p> <p style="text-align: center;">Rydberg exciton sensing and trapping in 2D van der Waals heterostructures</p>
15:00-15:30	<p style="text-align: center;">Shengyuan Yang Singapore University of Technology and Design</p> <p style="text-align: center;">Nonlinear transport effects and band geometric quantities</p>
Coffee break 15:30-15:50	
Chair: Shuyun Zhou (Tsinghua University)	
15:50-16:20	<p style="text-align: center;">Netanel Lindner Technion-Israel Institute of Technology</p> <p style="text-align: center;">Inducing plasmonic exceptional points and pattern formation using modulated Floquet parametric driving</p>
16:20-16:50	<p style="text-align: center;">Yihong Wu National University of Singapore</p> <p style="text-align: center;">Spin-charge interconversion in magnetic heterostructures and its applications in magnetic sensors</p>
16:50-17:20	<p style="text-align: center;">Yang Liu Peking University</p> <p style="text-align: center;">Dynamic response of Wigner crystals</p>
17:20-17:50	<p style="text-align: center;">Yi Chen Peking University</p> <p style="text-align: center;">Evidence for quantum spin liquid behavior in single-layer 1T-TaSe₂</p>



Friday, August 11

International Exchange Center, Lecture Hall

Chair: Shengyuan Yang (Singapore University of Technology and Design)

9:00-9:30	<p style="text-align: center;">Bo Yang Nanyang Technological University</p> <p style="text-align: center;">The formalism of conformal Hilbert spaces and the fractionalization of anyons in fractional quantum Hall systems</p>
9:30-10:00	<p style="text-align: center;">Huaqing Huang Peking University</p> <p style="text-align: center;">Intrinsic nonlinear Hall detection of the Néel vector for two-dimensional antiferromagnetic spintronics</p>
10:00-10:30	<p style="text-align: center;">Cheng Zhang Fudan University</p> <p style="text-align: center;">Acoustoelectric modulation of quantum materials</p>
<p>Coffee break 10:30-10:50</p>	



III. POSTER SESSION

No.	Name	Title
S1-1	Yuanda Liao	Caution on Gross-Neveu criticality with a single Dirac cone: Violation of locality and its consequence of unexpected finite-temperature transition
S1-2	Shuai A. Chen	Ginzburg-Landau theory of flat-band superconductors with quantum metric
S1-3	Zezhong Li	Spin driven pre-pairing in a triclinic iron-based superconductor
S1-4	Dong Li	A disorder-sensitive emergent vortex phase identified in the quasi-two-dimensional iron selenide superconductors (Li,Fe)OHFeSe
S1-5	Jiangfan Wang	Nonlocal Kondo effect and two-fluid picture revealed in an exactly solvable model
S1-6	Haotian Liu	Impact of random impurities on the anomalous Hall effect in chiral superconductors
S1-7	Leyi Li	Highfold symmetrical oscillatory planar all effect in topological Kagome metal
S1-8	Jinxin Hu	Josephson diode effect induced by valley polarization in twisted bilayer graphene
S1-9	Rui Zhou	Antiferromagnetic spin fluctuations and unconventional superconductivity in topological superconductor candidate YPtBi revealed by 195Pt-NMR
S1-10	Lingyong Zeng	Superconductivity and topological aspects in High-Entropy carbides
S1-11	Qingyong Ren	Phonon overdamping leading superionic state in Argyrodite Ag_8SnSe_6
S1-12	Yinong Yin	Magnetic field enhanced thermal conductivity and origin of large thermopower in layered cobaltates
S1-13	Chao Han	Conformal four-point correlators of the 3D Ising transition via the quantum fuzzy sphere
S1-14	K. Wang	An entirely quantum state of matter emerges in pyrochlore iridate $\text{Nd}_2\text{Ir}_2\text{O}_7$
S1-15	Siqi Wu	Competing superconducting orders and their intimate interrelationship with orbital characters in $\text{K}_2\text{Cr}_3\text{As}_3$



No.	Name	Title
S1-16	Rui Xu	Observation of bandwidth modulating metal-insulator transition in $\text{Nd}_{1-x}\text{Sr}_x\text{NiO}_3$
S1-17	Chenhang Xu	Transient dynamics in VO_2 revealed by ultrafast 3MeV electron diffraction
S1-18	L. Y. Cao	Optical study of three-dimensional Weyl semimetal Mn_3Sn
S1-19	Qilin Han	Ferroelectric-driven disorder induces transition of bosonic insulator-superconductor in $\text{TiN}/\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ heterojunction
S1-20	Jiayu Yuan	Revealing strong coupling of collective modes between superconductivity and pseudogap in cuprates by nonlinear terahertz spectroscopy
S1-21	Qiong Wu	The novel pump-induced optical response in semiconductor $\text{Mn}_3\text{Si}_2\text{Te}_6$
S1-22	Xiaoyu Liu	Nuclear magnetic resonance (NMR) research on fulde-ferrell-larkin-ovchinnikov(FFLO) state of iron-based superconductor KFe_2As_2
S1-23	Qinxin Shen	Transverse field Induced checkerboard antiferromagnetic order in $\text{BaCo}_2\text{V}_2\text{O}_8$
S1-24	Chang Liu	Preferred spin excitations in the bilayer iron-based superconductor $\text{CaK}(\text{Fe}_{0.96}\text{Ni}_{0.04})_4\text{As}_4$ with Spin-Vortex crystal order
S1-25	Mingzhe Li	Strain effect on the superconductivity and band structure of $\text{CsCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ studied by STM
S1-26	Yuke Li	Anomalous thermos-electrical effect in the ferromagnetic topological semimetals
S1-27	Shaofeng Duan	Ultrafast switching from the charge density wave phase to a metastable metallic state in 1T-TiSe_2
S1-28	Shan Dong	First-principles studies on two-dimensional excitonic insulators
S1-29	HongXiong Liu	Vanadium-based superconductivity in a breathing Kagome compound $\text{Ta}_2\text{V}_{3.1}\text{Si}_{0.9}$
S1-30	Yi Cui	Proximate deconfined quantum critical point in $\text{SrCu}_2(\text{BO}_3)_2$
S1-31	Shichong Wang	An advanced angle-resolved photoemission spectroscopy with time and high energy resolution
S1-32	Junying Shen	Neutron Scattering Study of Magnetic phases stabilized by magnetic doping in a diluted Kondo lattice

No.	Name	Title
S1-33	Tianheng Wei	Pair density wave state in a monolayer high-Tc iron-based superconductor
S1-34	Yu Li	Anisotropic gap structure and sign reversal symmetry in monolayer Fe(Se,Te)
S1-35	Bo Xing	Phase diagram of the Su-Schrieffer-Heeger-Hubbard model on a square lattice
S1-36	Tianxing Ma	Charge stripe manipulation of superconducting pairing symmetry transition
S1-37	Tian Le	Evidence for chiral superconductivity in Kagome superconductor CsV ₃ Sb ₅
S1-38	Zhenyuan Zeng	Possible Dirac quantum spin liquid in the Kagome quantum antiferromagnet YCu ₃ (OH) ₆ Br ₂ [Br _x (OH) _{1-x}]
S1-39	Qingkai Meng	Magnetostriction, piezomagnetism and domain nucleation in a Kagome antiferromagnet
S1-40	Fei Sun	The Lorenz ratio as a guide to scattering contributions to Planckian transport
S1-41	Yuhang Zhang	de Haas–van Alphen oscillation reveals nontrivial Fermi surface topology in Kagome superconductor CsTi ₃ Bi ₅
S1-42	Rongsheng Li	Flat optical conductivity in topological Kagome magnet TbMn ₆ Sn ₆
S1-43	Ruixian Liu	Nematic spin correlations pervading the phase diagram of FeSe _{1-x} S _x
S1-44	Yeyang Zhang	Dissipationless spin-charge conversion in excitonic pseudospin superfluid
S1-45	Lingxian Kong	Antiparticle of exciton in semimetals
S1-46	He Wang	Point-contact Andreev reflection measurements on ZrRuAs single crystals
S1-47	Yi Liu	The evolution of anomalous metal states in high temperature interface superconductors
S1-48	Chenchao Xu	Pressure-induced concomitant topological and metal-insulator quantum phase transitions in Ce ₃ Pd ₃ Bi ₄
S1-49	Zhen Zhao	Titanium doped Kagome superconductor CsV _{3-x} Ti _x Sb ₅ and two distinct phases
S1-50	Ke Liu	Magnon Interaction effects: spontaneous magnon decay and stability of magnetic order



No.	Name	Title
S1-51	Jun Ren	Enumeration and representation of spin space groups
S1-52	Tae Beom Park	Multiple quantum phase transitions in the frustrated Kondo-lattice compound $\text{CeRhAl}_4\text{Si}_2$
S1-53	Honghong Wang	Avoided ferromagnetic quantum critical point in the disordered Kondo-lattice compound $\text{CePtAl}_4\text{Si}_2$
S1-54	Yamin Quan	Band crossover and magnetic phase diagram of the high- T_c superconducting compound $\text{Ba}_2\text{CuO}_{4-\delta}$
S1-55	Jierui Huang	Topological and excitonic states in $\text{Ta}_2\text{Pd}_3\text{Te}_5$
S2-1	Weizhong Fu	Towards the ground state of molecules via diffusion Monte Carlo on neural networks
S2-2	Yubing Qian	Interatomic force from neural network based variational quantum Monte Carlo
S2-3	Hu Zhang	Elemental polar metals and strongly correlated multiferroics with a d9 configuration
S2-4	Liu Yang	Across-Layer sliding ferroelectricity in 2D heterolayers
S2-5	Mengli Hu	Catalogue of C-paired spin-valley locking in antiferromagnetic system
S2-6	Xuechen Wang	Unconventional ferroelectricity with quantized polarizations in ionic conductors: high-throughput screening
S2-7	Zhenqiao Huang	Nonlinear piezomagnetism from quantum phase transition
S2-8	Xiangchao Ma	Excellent surface plasmon and hot carrier properties of transition metal nitride at different temperatures
S2-9	Yujun Zhao	Deep self-learning neural network inspired by field theory
S2-10	Zewen Wu	Evolution of the confined states in graphene nanobubbles



No.	Name	Title
S2-11	Ningbo Fan	Origin of negative electrocaloric effect in Pnma-type antiferroelectric perovskites
S2-12	Jiayong Zhang	Doping-and strain-tuned high Curie temperature half-metallicity and quantum anomalous Hall effect in monolayer NiAl ₂ S ₄ with non-Dirac and Dirac states
S2-13	Xingkai Cheng	Unconventional giant piezomagnetic effect arisen from C-paired spin-momentum locking in RuO ₂
S2-14	Yunhai Li	TBPLaS: A tight-binding package for large-scale simulation
S2-15	Bo Fan	Tuning superconducting inductors by quantum coherence effects
S2-16	Haoran Wei	Double-heavy element monolayer ATeCl(A=La/Pr/Nd) with ultra-low lattice thermal conductivity and promising thermoelectric performances
S2-17	Tianchun Wang	Optimal alloying in hydrides: reaching room-temperature superconductivity in LaH ₁₀
S2-18	Xiaotian Yang	Electronic properties and quantum transport in functionalized graphene Sierpinski-carpet fractals
S2-19	Haosheng Xu	Discovering two-dimensional magnetic topological insulators by machine learning
S2-20	Xiaobing Chen	Spin space group theory and unconventional magnons in collinear magnets
S2-21	Qunfang Gu	Realization of promoting highly efficient hydrogen production by laser-induced water plasma
S2-22	Huimin Wang	Giant acceleration of polaron transport by ultrafast laser-induced coherent phonons

No.	Name	Title
S2-23	Yiwei You	Charge density distribution in c-LLZO surface and implications for lithium dendrite growth
S2-24	Jiayu Li	Quasi-symmetry-protected near degeneracy in crystalline materials
S2-25	Fulun Wu	Deep learning interatomic potential for Ca-O system at high pressure
S2-26	Zepeng Wu	Effect of doping on the phase stability and superconductivity in LaH ₁₀
S2-27	Dexin Zhang	Influence of Zr aggregation on Li-ion conductivity of amorphous solid-state electrolyte Li-La-Zr-O
S2-28	Yunzhe Jia	How and why lasers can convert graphite to diamond?
S3-1	Saeed A. Khan	Quantum reservoir computing using finitely-sampled nonlinear quantum systems
S3-2	Wei Nie	Non-Hermitian cavity QED with tunable atomic mirrors
S3-3	Z.-E. Su	The quantum knitting machine—a continuous, deterministic quantum light source
S4-1	Xiaolin Wan	Photoinduced high-Chern-number quantum anomalous Hall effect from higher-order topological insulators
S4-2	Chengming Miao	Engineering topologically-protected zero-dimensional interface end states in antiferromagnetic heterojunction graphene nanoflakes
S4-3	Yuntian Liu	Chern-insulator phase in antiferromagnets
S4-4	Shiqiang Yu	A new concept of atomically thin p-n junction based on donor-acceptor heterostructure: a first-principles study

No.	Name	Title
S4-5	Huiying Ren	Electron-electron interaction and correlation-induced two density waves with different Fermi velocities in graphene quantum dots
S4-6	Jiashuo Gong	Crystal growth and property characterization of $\text{Sn}_{1-x}\text{In}_x\text{Bi}_2\text{Te}_4$ ($x=0\sim 0.6$)
S4-7	Yadong Jiang	Monolayer V_2MX_4 : A new family of quantum anomalous Hall insulators
S4-8	Yuchen Zhuang	Anomalous photon-assisted tunneling in periodically driven Majorana nanowires and BCS charge measurement
S4-9	Huan Wang	Moiré engineering and topological flat bands in twisted orbital-active bilayers
S4-10	Zhongxun Guo	The Intrinsic quantum anomalous Hall effect and high-Chern-number state in MnBi_2Te_4
S4-11	Dongming Zhao	Evidence of higher-order topology in different hinge states on various facets of bismuth nanocrystal
S4-12	Huicong Liu	Magnon polarons in spin Seebeck effect of easy axis antiferromagnets
S4-13	Hongbin Wu	Antiferromagnetic skyrmion as magnonic lens
S4-14	Yingxi Bai	Engineering second-order corner states in 2D multiferroics
S4-15	Chensong Hua	Frequency-domain simulation of magnonic band structures
S4-16	Yunchao Hao	Near-field thermal radiation computational model for particle-plate complex multi-body systems
S4-17	Yuliang Tao	Quadrupole insulator without corner states in the energy spectrum
S4-18	Shaohua Zhou	Pseudospin-selective Floquet band engineering in black phosphorus
S4-19	Bin Hu	Roton pair density wave in a strong-coupling Kagome superconductor
S4-20	Cuiqun Chen	Chern insulators and high Curie temperature Dirac half-metal in two-dimensional metal-organic frameworks
S4-21	Li Chen	Electrostatic effects of the MnBi_2Te_4 -superconductor heterostructures in chiral Majorana search
S4-22	Taishi Chen	Large AHE in room temperature FM Fe_3Ga

No.	Name	Title
S4-23	Zheng Qin	The one-dimensional chiral anomaly and its disorder response
S4-24	Minzhi Dai	Realizing multiple non-volatile resistance states in two-dimensional domain wall ferroelectric tunneling junction
S4-25	Dong Chen	Anomalous Nernst effect and quantum oscillations in the Kagome metal CsV_3Sb_5
S4-26	Di Yue	High-mobility electron and hole surface states in bismuth thin films
S4-27	Heng Zhang	Synthesis of intrinsic magnetic topological insulator $\text{MnBi}_{2n}\text{Te}_{3n+1}$ family by chemical vapor transport method with feedback regulation
S4-28	Jingyun Fang	Thermal dissipation in the quantum Hall regime in graphene
S4-29	Hengxin Tan	Charge density waves in emerging Kagome materials
S4-30	Jiangbo Peng	Probing the interfacial carrier dynamics and electronic structures in transition metal dichalcogenides heterostructures and alloys
S4-31	Hanqi Pi	First-principles calculation of magnetoresistance and Hall effect in ZrTe_5
S4-32	Chaozhi Huang	Optically-induced weak-to-strong topological phase transition in ZrTe_5 revealed by time- and angle-resolved photoemission
S4-33	Huiru Liu	Atomic-scale manipulation of single polaron in a two-dimensional semiconductor
S4-34	Qianying Hu	Observation of Rydberg moiré excitons
S4-35	Xunwu Hu	$(\text{Fe}_{1-x}\text{Ni}_x)_5\text{GeTe}_2$: An antiferromagnetic triangular Ising lattice with itinerant magnetism
S4-36	Yibo Liang	Borophene and borophene/graphene heterostructure as anode materials for metal-ion batteries
S4-37	Guojian Qian	Spin-flop transition and Zeeman effect of defect-localized bound states in the antiferromagnetic topological insulator MnBi_2Te_4
S4-38	Jianyou Wang	Long-range energy transport between nanoparticles assisted by cylindrical waveguides
S4-39	Liang Liu	Two-dimensional bulk photovoltaics enhanced by the magnetism



No.	Name	Title
S4-40	Zijian Lin	Temperature-dependent collective excitations in a three-dimensional Dirac system $ZrTe_5$
S4-41	Zhiyong Lin	Band structure, magnetism, and topological properties of Kagome lattice
S4-42	Kai Liu	Interaction-driven spontaneous broken-symmetry insulator and metals in ABCA tetralayer graphene
S4-43	Yanzhao Liu	Discrete scale invariance of the quasi-bound states at atomic vacancies in a topological material
S4-44	Xiaokang Li	Phonon thermal Hall effect in black phosphorus
S4-45	Zeyu Li	Chern number tunable quantum anomalous Hall effect in monolayer transitional metal oxides via manipulating magnetization orientation
S4-46	Luhao Zhang	Full quantum dynamics of complex chemical system——modelling excited state proton transfer
S4-47	Xunjiang Luo	The generalization of Benalcazar-Bernevig-Hughes model to arbitrary dimensions
S4-48	Q Lu	Topologically protected surface states in $TaPdTe_5$
S4-49	Xin Lu	Synergistic correlated states and nontrivial topology in coupled graphene-insulator heterostructures
S4-50	Lei Wang	The calculational design of two-dimensional van der Waals layered MA_2Z_4 family
S4-51	Yue Mao	Universal spin superconducting diode effect from spin-orbit coupling
S4-52	Yixin Ma	Numerical calculation of many-body topological invariant for variational quantum spin Hall wavefunctions
S4-53	Yaning Ren,	Real-space mapping of local subdegree lattice rotations in low-angle twisted bilayer graphene
S4-54	Weicen Dong	Static and dynamical properties of the spin-5/2 nearly ideal triangular lattice antiferromagnet $Ba_3MnSb_2O_9$
S4-55	Yupeng Li	Interfering Josephson diode effect and magnetochiral anisotropy in $Ta_2Pd_3Te_5$ asymmetric edge interferometer
S4-56	Qiang Gao	Evidence of high-temperature exciton condensation in a two-dimensional semimetal
S4-57	Wenxuan Qiu	Interaction-driven topological phase diagram of twisted bilayer $MoTe_2$



No.	Name	Title
S4-58	Qikun Tian	Inverse-Janus design of 2D Rashba semiconductors
S4-59	Puxuan Li	Biaxial strain modulated electronic structure of layered two-dimensional MoSiGeN ₄ Rashba systems
S4-60	Hanchen Wang	Spin-wave Moiré cavity and edge modes
S4-61	Siyu Li	Imaging topological and correlated insulating states in twisted monolayer-bilayer graphene
S4-62	Peng Wu	High-spin polarized topological surface states and weak temperature-dependent phonon anharmonicity in GeSb ₂ Te ₄
S4-63	Jinyue Wang	Phase fluctuation and pseudogap state in ultra-thin Pb superconducting films
S4-64	Yuliang Tao	Average symmetry protected higher-order topological amorphous insulators
S4-65	Weidi Wang	Paramagnetic spin transport in a one-dimensional model
S4-66	Wenbo Dai	Quantum anomalous layer Hall effect in the topological magnet MnBi ₂ Te ₄
S4-67	Ziming Wang	Floquet Weyl semimetal phases in light-irradiated higher-order topological Dirac semimetals
S4-68	Xiaokang Dai	Energy loss rate of an electron in three-dimensional Dirac semimetals
S4-69	Bo Xie	Lattice distortions, moiré phonons and relaxed electronic band structures in magic-angle twisted bilayer graphene
S4-70	Xunqing Yin	Magnetic properties of the quasi two-dimensional centered honeycomb antiferromagnet GdInO ₃
S4-71	Xiaoshuai Fu	Discovery and construction of surface Kagome electronic states induced by p-d electronic hybridization in Co ₃ Sn ₂ S ₂
S4-72	Meng Li	Ordered and tunable Majorana-zero-mode lattice in naturally strained LiFeAs
S4-73	Yushuo Xu	Spin-valley splitting and spontaneous valley polarization in antiferromagnetic Mn ₂ P ₂ X ₃ Y ₃ monolayer
S4-74	Run Yang	Unconventional Hall effect and surface skyrmions in antiferromagnetic topological insulator EuCd ₂ As ₂
S4-75	Ye Yang	Pressure-induced transition from a Mott insulator to a ferromagnetic Weyl metal in La ₂ O ₃ Fe ₂ Se ₂

No.	Name	Title
S4-76	Yinong Yin	Spin-glass behavior and magnetocaloric properties of high-entropy perovskite oxides
S4-77	Yujin Jia	2D Twist: construct 2d twisted structures database
S4-78	Yuting Qian	Magnetic wallpaper Dirac fermions and topological magnetic Dirac insulators
S4-79	Tonghua Yu	Interstitial-electron-induced topological molecular crystals: topological Zintl compounds $K_4Ba_2[SnBi_4]$ and the related family
S4-80	Xianglong Yu	Three consecutive quantum anomalous Hall gaps in a metal-organic network
S4-81	Guangyuan Han	Construction of twisted graphene-silicene heterostructures
S4-82	Huan Wang	Anisotropic band flattening from moiré engineering: a platform for Luttinger Liquid
S4-83	Fangyang Zhan	Floquet engineering of nonequilibrium valley-polarized quantum anomalous Hall effect with tunable Chern number
S4-84	Huayang Zhang	Electric field-controlled damping switches of coupled Dirac plasmons
S4-85	Wenxuan Zhang	Equilibrium configurations and electronic structures of Fullerene ultrathin films on $SrTiO_3(001)$ surface
S4-86	Zhan Wang	The stress-induced giant and homogeneous pseudo-magnetic field in calcium-intercalated graphene
S4-87	Zhen Zhan	Extended magic phase in twisted graphene multilayers
S4-88	Zheng Liu	Interstate Berry curvature of hinge state and its detection
S4-89	Zihao Huang	Tuning multiple Landau quantization in transition-metal dichalcogenide with strain
S4-90	Zhihao Liu	First-principles calculated magneto-resistance of $Co_3Sn_2S_2$
S4-91	Zhengyang Zhuang	Extrinsic and intrinsic nonlinear Hall effects across Berry-dipole transitions
S4-92	Di Zhu	Sublattice sensitive Majorana modes
S4-93	Lijun Zhu	Novel quantum interference effect in inter-layer Coulomb drag



No.	Name	Title
S4-94	Xudong Zhu	Valley-polarized quantum anomalous Hall effect in van der Waals heterostructures based on monolayer jacutingaite family materials
S4-95	Zihan Cui	The activated scaling behavior of quantum Griffiths singularity in two-dimensional superconductors
S4-96	Xiaorong Zou	Gapless edge states in two-dimensional antiferromagnetic bilayer
S4-97	Ziting Sun	Crossover of h/e and $h/2e$ Fraunhofer oscillations in chiral edge-channel Josephson junctions
S4-98	Yuwei Zhang	In-plane topological Hall effect in the noncentrosymmetric magnetic Weyl semimetal SmAlSi
S4-99	Zhongyi Zhang	Symmetry-protected topological superconductivity in magnetic metals
S4-100	Zhongqing Guo	Strain driven topological phase transition and interlayer coupling induced Chern insulator in $\text{Mn}(\text{Bi}/\text{Sb})_2\text{Te}_4/((\text{Bi}/\text{Sb})_2\text{Te}_3)_n$ -family materials
S4-101	Lei Qiu	Tunable spin-wave nonreciprocity in synthetic antiferromagnetic domain walls
S4-102	Yuntong Yang	Dissecting quantum phase transition in the transverse Ising mode
S4-103	Jingping Dong	Two-dimensional anisotropic Dirac materials PtN_4C_2 and $\text{Pt}_2\text{N}_8\text{C}_6$ with quantum spin and valley Hall effects
S4-104	Zhukun Fan	BKT phase transition driven by phase fluctuations in K doped FeSe thin films
S4-105	Zhentao Zhang	Electron teleportation via multiple Majorana bound states in a superconductor island