

POSTER SESSIONS

Atomic/Molecular/Optical (AMO) Physics

A001	Orientation-Insensitive Spin Amplification For Quantum Metrology	Dr 宇帆牛 Fudan University
A002	Chiral Waveguide Qed	Mr Yan Xi Foo Nanyang Technological University
A003	On-Chip Valley-Conserved Dual-Polarization Photonic Crystal Router	Mr Kenneth Xin Jie Ho Nanyang Technological University
A004	Most Subradiant Bound Photon Pairs From Chirality-Mediated Dispersion Softening	Mr Kailin Tan Fudan University
A005	Hardware-Aware XZZX Surface-Code Compilation and Dual-Rail Concatenation for Silicon-Atom Architectures	Dr Song Zhang Shenzhen International Quantum Academy
A006	Quantum Trajectory Of A Spin Oscillator, Continuous Retrodiction Beyond The Heisenberg Uncertainty Relation	Dr Peiyang Li Shanxi University
A007	Electric Bias-Induced Reversible Configuration Of Single And Heteronuclear Dual-Atom Catalysts On 1t'-Mos2	Dr Jianhua Wu NUS/Chemistry
A008	Room-Temperature Vector Atomic Magnetometer And Brain Magnetic Field Sensing	Ms Junyi Lu Fudan University
A009	Quantum Process Tensors, Combs And Link Product On Infinite Dimensions	Ms Amalina Lai Nanyang Technological University
A010	A Robust Laser-Ablated Strontium Cold Atom Source For Compact And Long-Term Operation	Mr Chengmeng Wang Nanyang Technological University
A011	Irreducible Randomness And Apparent Memory In Quantum Stochastic Processes	Mr Derek Chang Nanyang Technological University
A012	Large-Scale Array Of Squeezed Light And Synchronization Using Atomic Vapor	Ms Lin Wang Fudan University
A013	Macroscopic Spin Ghz State In Levitated Ferromagnets	Ms Xueqi Ni National University of Singapore
A014	Propagation-Invariant Spatiotemporal Vortices	Mr Junyi Ye Fudan University
A015	Fermion Mediated Pairing in a Bose-Fermi Mixture	Dr Geyue Cai The University of Chicago
A016	Occupation-Selective Topological Pumping From Floquet Gauge Fields	Ms Liu Wenjie 大连理工大学

Biophysics

A017	Marangoni Effect As A General Principle For Intracellular Transport	Mr Qi Guan Peking University
A018	Hollow Condensates Emerge From Gelation-Induced Spinodal Decomposition Via Distinct Molecular Triggers	Mr Yongxin Tong Peking University
A019	Single-molecule magnetic tweezers reveal distinct dynamics and enhanced mechanical stability of ssDNA 31 and 52 knots	Mr Zhuwei Zhang Xiamen University

Chemical Physics

A020	Chiral Ligand-Directed Nanoscale Symmetry Breaking Forward And Inverse Design	Dr Jiabin Ma National University of Singapore
A021	Tunable Coherent Energy Transfer Networks In Quasi-2d Perovskites Revealed By Two-Dimensional Electronic Spectroscopy	Mr Yubo Yang Beijing Normal University
A022	3d Laser Nanoprinting Of Inorganic Nanomaterials	Dr Shao-Feng Liu National University of Singapore
A023	Quantitative Phase Reconstruction And X(2)/X(3) Separation At Charged Aqueous Interfaces Using High-Resolution Broadband Sfg-Vs	Ms Jinhua Jiang Westlake University
A024	Physics-Regularized Deep Learning For Eis-Based Degradation Diagnosis In Silicon-Carbon Composite Anodes	Mr Kaize Guo National University of Singapore
A025	Chirality At Air/Liquid Interface And In 2d Materials Detected By Shg Polarization And Imaging	Ms Jiayi Huang Westlake University

Computational and Mathematical Physics

A026	A Penalty-Free Quantum Algorithm To Find Energy Eigenstates	Dr Nannan Ma National University of Singapore
A027	Theory Of Quantum Imaginary-Time Mpemba Effect	Dr Yumeng Zeng Peking University

Condensed Matter and Materials Physics, I

A028	Electronic Structures Across Superconductor-Insulator Transition In Ruddlesden-Popper Bilayer Nickelate Films	Mr Yu Miao University of Science and Technology of China
A029	Substrate-dependent Photoluminescence Modulation In Perovskite/Monolayer Ws2 Heterostructures	Mr Hengxing Yang National University of Singapore
A030	Trotter Scars: Trotter Error Suppression In Quantum Simulation	Mr Bozhen Zhou Institute of Theoretical Physics, Chinese Academy of Sciences
A031	Unveiling Intrinsic Multiferroicity And Atomic-Scale Ion Dynamics In 2d Transition Metal Phosphorus Chalcogenides	Dr Changjin Guo National University of Singapore
A032	Self-Powered Photomemristor Array For In-Sensor Computing	Dr Yichen Cai National University of Singapore
A033	Anomalous Narrow-Band Correlation In A Natural Superconducting Heterostructure	Mr Xiupeng Sun University of Science and Technology of China
A034	From Trimers To Chains: Growth And Defect Dynamics In Anisotropic Tellurium Films	Dr Zhiyong Wang National University of Singapore
A035	Nodeless Superconducting Gap And Electron-Boson Coupling In (La,Pr,Sm)3ni2o7 Films	Mr Jianchang Shen University of Science and Technology of China
A036	Nonreciprocal Superconducting Critical Currents With Normal State Field Trainability In Kagome Superconductor Csv3sb5	Dr Jun Ge Peking University
A037	High-Temperature Field-Free Superconducting Diode Effect In High-Tc Cuprates	Dr Shichao Qi Peking University
A038	Bandgap Modulations And Promoted Carrier Separation In Crystalline G-C3n4 Thin Films Via Chemical Vapor Deposition	Ms Ying Du Xiamen University
A039	From Validation To Control: Ferroelectric Switching In 3r-Mos2 And Carrier Extraction Modulation	Mr Yizhuo Luo National University of Singapore, Department of Chemistry
A040	Substituted Bi Induced Localized Defect State In Crte3	Dr Dechun Zhou National University of Singapore
A041	Scalable Transition Metal Dichalcogenide Memtransistor Arrays With Schottky-Barrier Control For Energy-Efficient Artificial Neural Networks	Prof Wei CHEN National University of Singapore, Department of Chemistry
A042	Pressure-Induced Amorphous Superconductivity In Exotic 2h-Tase ₂ Single Crystals	Mr Hongshan Deng Central South University
A043	Memristive device based on a-In2Se3/MoS2 heterostructure for in-memory computing	Mr Wei Zhang National University of Singapore
A044	Consecutive Phase Transition In Twisted Double Bilayer Wse2 System	Dr Lingnan Wei Columbia University
A045	Layer-Dependent Band Gap And Edge States In 2d Ptse2	Prof Andrew Wee National University of Singapore
A046	Evidence For Time-Reversal Symmetry Breaking And Electronic Glassiness In Superconducting (La, Pr, Sm)3ni2o7 Films	Dr Haoran Ji Peking University
A047	Poor Man's Majorana Modes In Quantum Dot-Superconductor Hybrid Systems: Finite-Length Effects And Superconducting Dressing	Mr Zhilei Zhang Graduate School of China Academy of Engineering Physics
A048	High-Throughput Computational Screening Of Two-Dimensional Monolayer Materials For Excitonic Bose-Einstein Condensation.	Dr Kanchan Ulman National University of Singapore

Condensed Matter and Materials Physics, II (Quantum Materials and Technology)

A049	Fine Memory Tuning In Zinc-Based Memtransistors Via Elaborate Optical Wave Structures	Mr Shih-Po Chien Department of Physics, National Taiwan Normal University
A050	Complete K-Uniform Hypergraph States As A Resource For Quantum Metrology	Mr Hoe Kin Mooi Nanyang Technological University
A051	Reliable Quantum Steering Detection Under Imperfect Measurement	Dr Ting Zhang Peking University
A052	Artificial Intelligence Quantum Science	Mr Kuifei Zheng 永生时空人工智能科技（北京）有限公司
A053	The Temporal Resolution Limit In Quantum Sensing	Dr CongGang Song Hainan University
A054	Quantum Christoffel Nonlinear Magnetization	Mr Xiaobin Qiang Southern University of Science and Technology (SUSTech)
A055	Topological Magnons With Scalar Spin Chiralities In A Centrosymmetric Magnetic Vortex Lattice	Ms Jinyu Bu University of Science and Technology of China

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POSTER SESSIONS

High Energy and Particle Physics

A056	Qcd Corrections To High-Transverse-Momentum Hadron Production In Deep-Inelastic Scattering	Mr Youjie Lin Shandong University
A057	Extraction of transverse-momentum dependent helicity distribution functions	Mr Ke Yang Shandong University
A058	Mechanical Phonon-Assisted Free-Electron-Photon Scattering In An Optomechanical Cavity	Mr SUNJUN HWANG Nanyang Technological University of Singapore, School of Electronic and Electrical Engineering
A059	Classical analog of the T. D. Lee model for renormalization	Mr Kang Xu Graduate School of China Academy of Engineering Physics

Nuclear Physics

A060	Slegs At Ssrf And Future Lcs Sources: Energy-Tunable Gamma-Ray Facilities For Photonuclear Physics And Emerging User Opportunities	Dr Hanghua Xu Shanghai Advanced Research Institute, Chinese Academy of Sciences
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Physics and Science Education

A061	Practical Exploration Of High School Physics "Project-Based Research" With Pbl-Pad Classroom Teaching Model	Prof SHIHONG MA Fudan University, Department of Physics
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Plasma Physics

A062	Study Of The Effect Of Interchange And Adiabaticity In Turbulence Spreading With 2-Fields Fluid Simulations	Mr Long Shan Chan Nanyang Technological University, School of Mathematical and Physical Sciences (SPMS)
A063	Generative Initialization Of Gbs Simulations Using Vae-Based Latent Flow Matching	Mr Kunpeng Li Nanyang Technological University

Statistical Mechanics and Nonlinear Physics

A064	Time-Optimal Qubit Reset Enabled By Structural Environment Spectrum	Mr HongBo Huang Graduate School of CAEP
A065	Nonlinear Optical Thermodynamics From A Van Der Waals-Type Mean-Field Theory	Mr Lian Meng Huazhong University of Science and Technology
A066	Discrete Simulation Of Nonlinear Schrödinger Dynamics In A Two Coupled Fiber Loop Temporal Photonic Lattice	Ms Yuchun Wang Singapore University of Technology and Design
A067	Comparative Study Of Classical And Quantum Thermal Transport At Low Temperatures In Billiard Systems	Dr Zhixing Zou National University of Singapore
A068	The Kai Protein Biological Clock Synchronization Mechanism	Mr Haoyun Zhou Shanxi University
A069	Beyond Constant-Temperature Reservoirs: A Stirling Cycle With Constant Heat-Generation Rate	Mr Xinshu Xia Graduate School of CAEP

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