

OCPA10 2026 Computational Physics Schedule & Timetable

Day 1 (Monday 22 June)

CP1 | Room 327

Chair: Hai-Qing Lin

Time	Speaker	Presentation Title
1:30–2:00	Su-Huai Wei	First Principles Design of Functional Materials for Energy and Optoelectronic Device Applications
2:00–2:30	Yun Hao Lu	Interlayer Self-Doping Multiferroics
2:30–3:00	Wenan Guo	Probing Deconfined Quantum Criticality via Entanglement Entropy
3:00–3:30	Xue-Jia Yu	Topological Physics in Quantum Critical Systems

Day 2 (Tuesday 23 June)

CP2 | Room 327

Chair: Su-Huai Wei

Time	Speaker	Presentation Title
1:30–2:00	Gang Lu	Moiré Excitons in van der Waals Materials
2:00–2:30	Ruiqin Zhang	Solutions of Multi-Electron Systems Using Hyperspherical Coordinates and 1-D Basis Functions
2:30–3:00	Xiang Gao	Advances in Close-Coupling Methods for Electron-Atom Collisions in Plasma Environments
3:00–3:30	Ji Feng	Ab Initio Spin Wave Dynamics: DFPT and Adiabatic Theory

CP3 | Room 327

Chair: Hai-Qing Lin

Time	Speaker	Presentation Title
3:50–4:20	Xi-Wen Guan	Novel Quantum Liquids: Spin-Charge Separation, FFLO Pairing, Luther-Emery Liquid
4:20–4:50	Jingyuan Li	Correlation Analysis of Protein Condensate
4:50–5:20	Sen Mu	Statistical Mechanics of Disordered Systems
5:20–5:50	Haotian Mao	Simulation of Plasma Detachment in TCV Using HERMES-3

Day 3 (Wednesday 24 June)

CP4 | Room 327

Chair: Wenan Guo

Time	Speaker	Presentation Title
1:30–2:00	Ying Jer Kao	Variational Tensor Network Operator
2:00–2:30	Zhiyuan Xie	Single-layer Framework of Variational Tensor Network States
2:30–3:00	Dong-Shan Jian	AI Autonomous Scientific Discovery: From Newton's Second Law to Future Scientific Paradigms
3:00–3:30	HongXi Xing	Exploring Hadronic Structure From Large Facilities and Quantum Computing
3:30–3:50	V. Vijendran	Near-Optimal Parameter Tuning of Level-1 QAOA for Ising Models