

USD14 Poster Presentations

Poster Session I (Monday 19:40-21:00)

1. Rishi Acharya. *Plasmon-driven exciton formation in a non-equilibrium Fermi liquid.*
2. Saumya Mukherjee. *Momentum Microscopy with multifunctional modular solutions.*
3. Alexander Adler. *Dynamics of Interlayer Excitons in WS_2/WSe_2 Heterostructures.*
4. Wiebke Bennecke. *Hybrid Frenkel–Wannier excitons facilitate ultrafast energy transfer at a 2D–organic interface.*
5. Tim Bergmeier. *Subcycle dynamics of the interplay between intraband acceleration and interband absorption in Bi_2Te_3 with 2D momentum resolution.*
6. Simon Briesenick. *Probing Ultrafast Structural Dynamics in Multilayer Graphene Using ULEEM.*
7. Ioannis Chatzakis. *Ultrafast Carrier Relaxation and Phonon Bottleneck Effect in Layered PEA_2PbI_4 Perovskite Films.*
8. Shao-Yu Chen. *Efficient light upconversion via resonant exciton-exciton annihilation of dark excitons in few-layer transition metal dichalcogenides.*
9. Famin Chen. *Implementation of a time-resolved momentum microscope with tunable mid-infrared pump and deep-ultraviolet probe for ultrafast photoemission mapping.*
10. Shuyu Cheng. *Temporospatial modulation of nematicity in FeSe.*
11. Jeongheon Choe. *Coherent Ferron Emission and Propagation.*
12. Adam J. Czarnecki. *Probing Nonlinear Optics via Ultrafast Atomic Force Microscopy Noise Measurements.*
13. Florian Denizer. *Structure and Dynamics of Na^+ and Cs^+ adsorbed on Cu(111) and solvated by D_2O molecules.*
14. Bryan T. Fichera. *Collective lattice excitations in a relaxor ferroelectric probed by time-resolved coherent x-ray scattering.*
15. Frank Y. Gao. *Giant dynamical magnetoelectric coupling in a van der Waals multiferroic.*
16. Jacques Hawecker. *From moiré ferroelectricity to nanoscale defect array in hexagonal Boron Nitride.*
17. Michael Horn von Hoegen. *Non-Equilibrium Energy Flow among Electrons and Phonons in Ultrathin Pb Films on Si(111).*
18. G. S. Matthijs Jansen. *Ultrafast table-top three-dimensional photoemission orbital tomography.*
19. Vedran Jelic. *Momentum-resolved electron–phonon coupling revealed by high harmonic spectroscopy.*
20. Prakriti P. Joshi. *Nanoscale symmetry breaking directs energy flow in black phosphorus.*
21. Saegyeol Jung. *Spontaneous breaking of mirror symmetry in a cuprate beyond critical doping.*
22. Sergei Kliavinek. *Theoretical and computational framework for nonlinear phononics.*
23. Yuze Liu. *Stimulated Moiré Phonon Scattering and Coherent Moiré Exciton-Phonon Transduction.*
24. Ding-Syue Yang. *Carrier-coupled ultrafast structural dynamics and interlayer energytransfer of substrate-supported two-dimensional transition metaldichalcogenide heterostructures.*

Poster Session II. (Tuesday 19:40-21:00)

25. Chuhan Liu. *Imaging GHz Magnon Dynamics with Ultrafast Electron Microscopy.*
26. Ping-Yuan Lo. *Upconversion photoluminescence from dark excitons via resonant exciton-exciton annihilation in few-layer transition metal dichalcogenides.*
27. S. Nöcker. *Probing broken time-reversal symmetry in 2D materials with tailored-light photocurrent generation.*
28. Razan Nughays. *Leveraging Ultrafast Microscopy to Probe Charge Carrier Dynamics at Semiconductor Surfaces.*
29. Rodrigo Paulino. *Nonlinear Lattice Dynamics Across a Ferroelectric Phase Transition with Two Dimensional THz Coherent Spectroscopy.*
30. Guan-Hao Peng. *Control of Finite-Momentum Excitons in Transition Metal Dichalcogenide Monolayers by Spin-Orbit-Coupled Twisted Light.*
31. Christopher Seibel. *Steady-state nonequilibrium electron distribution in metals driven by CW laser excitation.*
32. Zongqi Shen. *Trefoil Floquet Engineering of Electronic Polarization.*
33. Benjamin Stadtmüller. *Disentangling exciton resonances in 2D materials and their heterostructures by interferometric time-resolved XUV-ARPES.*
34. Yu-Chan Tai. *Observing phonon-driven Floquet states using quantum beat spectroscopy.*
35. Tommy Tai. *Terahertz time-domain micro-spectroscopy of a dual-gated bilayer graphene device.*
36. Nai-Yu Tsai. *Towards fully tunable time-resolved Momentum Microscopy at arbitrary (0-60 MHz) repetition rate.*
37. Henrik Wiedenhaupt. *Two-Color Pump-Probe STM of Coherent Phonon Dynamics in Ultrathin ZnO/Ag(111).*
38. Zachary H. Withers. *Exciton localization and dynamics in MoSe₂/WS₂ Heterostructures.*
39. Jinyuan Wu. *What is the signature of a trion in photoemission?*
40. Friederike Wühl. *Ultrafast electron dynamics in strongly correlated perovskites LaFeO₃(001) and BiFeO₃(001).*
41. Ding-Shyue Yang. *Detailed energy transport dynamics observed across solid-molecule junctions.*
42. Alfred Zong. *Selective control of nonequilibrium multiferroic dynamics with tunable strain.*
43. Vedran Jelic. *Time-resolved tunneling spectroscopy of ultrafast surface dynamics with single atom resolution.*
44. Florian Denizer. *Spatio-Temporal Electron Propagation Dynamics in Au/Fe/MgO(001) in Non-Equilibrium: Revealing Single Scattering Events and the Ballistic Limit.*
45. Markus Scholz. *Ultrafast Charge-Driven Molecular Motion at a Hybrid Molecule-2D Material Interface.*
46. Yifan Su. *Terahertz plasmonics at the graphene/NiPS₃ interface tuned by antiferromagnetic order.*
47. Eduard Moos. *Visualizing Rabi-Oscillations in Graphene using strong-field time-resolved ARPES*
48. Ilyas Batyr. *Gate-Tunable Atomically Resolved Light Emission in a Monolayer Semiconductor*
49. Eugene Park. *Signatures of THz-Frozen Orbital Order in KCuF₃*