

ISUILS2025

List of Poster Presentations

P-1 Impulsive molecular alignment via pure vibrational excitation

A. Espagnol, P. Béjot, E. Hertz, F. Billard, and O. Faucher (*Laboratoire Interdisciplinaire Carnot de Bourgogne, Université Bourgogne Europe, CNRS*)

P-2 Coherent control of electronic wavepackets in molecules with spectrotemporally shaped attosecond x-ray free-electron laser pulses

River R. Robles^{1,2,3}, Kirk A. Larsen^{1,3}, David Cesar¹, Taran Driver^{1,3}, Joseph Duris¹, Paris Franz^{1,2,3}, Veronica Guo^{1,2,3}, Gabriel Just¹, Randy Lemons¹, Ming-Fu Lin^{1,3}, Razib Obaid^{1,3}, Nicholas Sudar¹, Jun Wang^{1,2,3}, Zhen Zhang¹, James Cryan^{1,3}, Agostino Marinelli^{1,3} (¹*SLAC National Accelerator Laboratory*, ²*Department of Applied Physics, Stanford University*, ³*Stanford PULSE Institute, SLAC National Accelerator Laboratory*)

P-3 Effect of backbone vibration during multi-fluorescence of phenazine molecules investigated by strong THz pumping

Lu Sun, Kaidi Liu, Weiwei Liu (*Institute of Modern Optics, Nankai University*)

P-4 Z-cut lithium niobate subwavelength waveguide femtosecond laser excitation of narrowband terahertz waves

Li Xingyou^{1,2}, Ma Ruobin¹, Lu Yao^{1*}, Zhang Jiawei¹, Wang Chao¹, Wu Qiang^{1**}, Liu Weiwei^{2***}, Xu Jingjun¹ (¹*The Key Laboratory of Weak-Light Nonlinear Photonics, Ministry of Education, TEDA Applied Physics Institute and School of Physics, Nankai University*, ²*Institute of Modern Optics, Nankai University*)

P-5 Spatiotemporal evolution of plasma induced by femtosecond laser filament

Jiayun Xue, Weiwei Liu (*Institute of Modern Optics, Eye Institute, Nankai University*)

P-6 Cascade four-wave mixing decorated supercontinuum with discrete colorful rings during filamentation

Zhiwenqi An^{1,2#}, Pengfei Qi^{1,2#}, Jiayun Xue^{1,2}, Haiyi Liu^{1,2}, Yuezheng Wang^{1,2}, Lu Sun^{1,2}, Olga G. Kosareva^{1,3}, See Leang Chin^{1,4}, Pierre Agostini^{1,5}, Weiwei Liu^{1,2} (¹*Institute of Modern Optics, Pierre Agostini International Joint Research Center for Ultrafast Optics and Applications, Nankai University*, ²*Tianjin Key Laboratory of Micro-scale Optical Information Science and Technology*, ³*International Laser Center & Faculty of Physics, M. V. Lomonosov Moscow State University*, ⁴*Department of Physics and Center for Optics, Photonics and Lasers (COPL), Laval University*, ⁵*Department of Physics, the Ohio State University*)

P-7 Gas and droplets dynamics for filament assisted free-space optical communication through clouds

Haiyi Liu, Pengfei Qi* (*Tianjin Key Laboratory of Micro-scale Optical Information Science*)

and Technology)

P-8 Filament based ionizing radiation sensing

Pengfei Qi^{1,2}, Weiwei Liu^{1,2,*} (¹*Institute of Modern Optics, Eye Institute, Nankai University,*
²*Tianjin Key Laboratory of Micro-scale Optical Information Science and Technology*)

P-9 Quantum computing of large-S spin chain dynamics using qubits and qudits

Erik Lötstedt^{1,2,3*} and Kaoru Yamanouchi^{2,4,5} (¹*RIKEN Center for Interdisciplinary Theoretical and Mathematical Sciences,* ²*Trapped Ion Quantum Computer Team, TRIP Headquarters, RIKEN,* ³*Computational Condensed Matter Physics Laboratory, RIKEN Cluster for Pioneering Research,* ⁴*Department of Chemistry, School of Science, The University of Tokyo,* ⁵*Institute for Attosecond Laser Facility, The University of Tokyo*)

P-10 Simulating coherent energy exchange on NISQ in presence of dephasing

Parinda Vasa,^{1,*} Erik Lötstedt,^{2,3} and Kaoru Yamanouchi² (¹*Department of Physics, Indian Institute of Technology Bombay,* ²*Department of Chemistry, School of Science, The University of Tokyo,* ³*RIKEN Center for Interdisciplinary Theoretical and Mathematical Sciences (iTHEMS)*)

P-11 Direct observation of carrier dynamics in the localization states of InGaN/GaN quantum well

Helong Li,¹ Xiangxin Xia,² and Huailiang Xu^{2,3,*} (¹*Institute of Atomic and Molecular Physics, Jilin University,* ²*State Key Laboratory of Integrated Optoelectronics, College of Electronic Science and Engineering, Jilin University,* ³*School of Optoelectronic Engineering, Xidian University*)

P-12 Chiral dynamics in triangular exciton – Phonon systems under quantized light

Noriyuki Aoyagi¹ and Kunio Ishida^{2,*} (¹*Graduate school of Regional Development and Creativity, Utsunomiya University,* ²*School of Engineering, Utsunomiya University*)

P-13 Pinhole imaging of laser accelerated Ar ions from cluster targets using solid state nuclear track detectors

Masato Kanasaki¹, Yuya Ichigotani^{1,2}, Reona Ozaki^{1,2}, Keita Toyonaga¹, Kaoru Maekawa¹, Shuta Gohara^{1,2}, Tomaya Yamauchi¹, Akira Kon², Kotaro Kondo², Hiromitsu Kiriya², Yuji Fukuda² (¹*Graduate School of Maritime Sciences, Kobe University,* ²*Kansai Institute for Photon Science (KPSI), National Institutes for Quantum Science and Technology (QST)*)