

## Ultrafast Vacuum Ultraviolet and X-ray Physics Workshop

SLAC National Accelerator Laboratory

All talks presented in the Kavli Auditorium

**Monday, July 19**

Time		
8:00 – 9:00		Registration & Coffee – Kavli Auditorium Foyer
9:15 – 9:30		Opening
9:30 – 10:00	Thomas Tschentscher <i>European XFEL, Germany</i>	Advanced FEL radiation parameters at the European XFEL
10:00 – 10:30	Bruce Patterson <i>Paul Scherrer Institut, Switzerland</i>	The SwissFEL X-ray Laser Project: plans for the machine and its applications
10:30 – 11:00		Coffee
11:00 – 11:30	Ernie Glover <i>Lawrence Berkeley National Laboratory, USA</i>	Ultrafast Science at the Advanced Light Source
11:30 – 12:00	Kiyoshi Ueda <i>Tohoku University, Japan</i>	Multiphoton multiple excitation of atoms, molecules and clusters by EUVFEL at SPring-8
12:00 – 12:30	Dick Lee <i>Lawrence Livermore National Laboratory, USA</i>	A brief Perspective for High Energy Density Studies on VUV and X-ray FELs
12:30 – 2:00		Lunch
2:00 – 2:30	Hyotcherl Ihee <i>Department of Chemistry, KAIST, Korea</i>	Picosecond pump-probe X-ray solution scattering
2:30 – 3:00	Reinhard Kienberger <i>Technische Universitaet Muenchen, Germany</i>	Attosecond Spectroscopy on Solids
3:00 – 3:30	Bob Nagler <i>Science and Technology Facilities Council, UK</i>	Bleaching core electron transitions with highly intense Free Electron Laser pulses
3:30 – 4:00		Coffee
4:00 – 4:30	Hermann Durr <i>SLAC National Accelerator Laboratory, PULSE &amp; SIMES, USA</i>	The x-ray view of femtosecond charge and spin dynamics in strongly correlated electron materials
4:30 – 5:00	Anders Nilsson <i>SLAC National Accelerator Laboratory, SIMES, USA</i>	Opportunities for ultrafast studies in surface chemistry and catalysis with soft x-rays
6:00 – 7:30		Posters & Reception Panofsky Auditorium Breezeway

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Tuesday, July 20

Time		
8:00 – 9:00		Registration & Coffee – Kavli Auditorium Foyer
9:00 – 9:30	Elliot Kanter <i>Argonne National Laboratory</i>	Observation of Atomic Multiphoton X-ray Absorption Processes at LCLS
9:30 – 10:00	Artem Rudenko <i>Max Planck Advanced Study Group, CFEL, Germany</i>	Atomic and molecular fragmentation by intense FEL light: from EUV to X-ray domain
10:00 – 10:30	Michael Meyer <i>European XFEL, Germany</i>	Atomic photoionization in combined intense XUV and optical laser fields
10:30 – 11:00		Coffee
11:00 – 11:30	John Costello <i>Dublin City University, Ireland</i>	Multiphoton (Inner-Shell) Ionization in Intense EUV FEL Fields
11:30 – 12:00	Nina Rohringer <i>Lawrence Livermore National Laboratory, USA</i>	Creating high-intensity sub-femtosecond x-ray pulses by pumping an atomic x-ray laser with LCLS
12:00 – 2:00		Lunch
2:00 – 2:30	Thorsten Weber <i>Lawrence Berkeley National Laboratory, USA</i>	Ultrafast Internal Conversion in Ethylene Molecules
2:30 – 3:00	Oleg Kornilov <i>Lawrence Berkeley National Laboratory, USA</i>	Ultrafast emission of Rydberg atoms from pure helium droplets excited by femtosecond VUV pulses
3:00 – 3:30		Coffee
3:30 – 4:00	Christoph Bostedt <i>SLAC National Accelerator Laboratory, LCLS, USA</i>	Clusters in intense x-ray pulses
4:00 – 4:30	Richard Kirian <i>Arizona State University, USA</i>	Femtosecond protein nanocrystallography at the LCLS
4:30 – 5:00	Filipe Maia <i>Lawrence Berkeley National Laboratory, NERSC, USA</i>	Ultrafast Single Particle Imaging of Cells and Virus
6:00 – 8:00		Workshop Dinner Panofsky Breezeaway/patio

## Ultrafast Vacuum Ultraviolet and X-ray Physics Workshop

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Wednesday, July 21

Time		
9:00 – 9:30	Josef Frisch <i>SLAC</i>	The LCLS and future X-ray FELs
9:30 – 10:00	James Welch <i>SLAC</i>	Production of FEL X-ray Beams by Undulators
10:00 – 10:30	Henrik Loos <i>SLAC</i>	Electron and Photon Beam Diagnostics
10:30 – 12:00		LCLS Tour & Coffee
12:30		Buses return to Guest House parking lot