Session Program

23–28 Aug 2026

FEL2026 - 42nd International Free Electron Laser Conference

Wednesday Poster Session

Wednesday 26 August

17:00

Wednesday Poster Session

Poster Session | **Location:** Stanford University

Self-seeded x-ray mixer for attosecond pulse metrology

Speaker
Federico Vismarra

Undulator Tapering for Phase Synchronization Recovery in Energy-Compressed LWFA-Driven FELs

Speaker
Dr Wei-Yuan Chiang

Experimental generation of attosecond soft and hard X-ray pulses with photocathode shaping at SwissFEL

Speaker
Zhaoheng Guo

Ultrafast Resonant Single-Particle Imaging with Attosecond XFEL Pulses

Speaker
Hankai Zhang

Programmable Phase Fronts for Tunable Electron Beam Interactions Using Silicon Photonics

Speaker
Melanie Murillo

Force-Neutral Adjustable Phase Undulators

Speaker
Nathan Burger

Commissioning of X-ray optics and diagnostics for CBXFEL at LCLS

Speaker
Mario Balcazar

Concept for a future light source toward coherent agile X-ray pulse generation

Speaker
Philippe Piot

Plasma-based compression of electron beams

Speaker
Kelly Swanson

2. CXLS Early Science and the Path Toward a Compact Coherent X-ray FEL

Speaker
Nicholas Matlis

A Compact 13.5-nm LPA-Driven FEL Based on a 6-m Integrated-Focusing FNAPU

Speaker
Maofei Qian

Compact High-Repetition-Rate EUV to Soft X-Ray Free Electron Laser

Speaker
Ji Qiang

Programmable Photoinjector Laser Shaping for Structured X-ray Pulse Generation at LCLS-II

Speaker
Jack Hirschman

Measurements of Vertical Polarization in the Second Harmonic of Planar Undulator Radiation

Speaker
Csaba Nemeth

Development of a Magnetic Measurement Test Stand for LCLS-II-HE Undulator Pre-Tuning

Speaker
Johann Eduardo Baader

A Digital Twin Framework for Optimization of Compact X-ray Light Source

Speaker
Adil Ansari

Single-Shot Echo-Type IXS for Self-Seeded and Cavity-Based XFELs

Speaker
Yuri Shvyd'ko

The development of time-resolved nonlinear XUV/soft X-ray spectroscopy in SACLA BL1

Speaker
XINGYU SU

100-nm focusing of 100 eV XFEL pulses at SACLA BL1 using high-NA mirror optics

Speaker
Yu NAKATA

Nanoscale Ultrafast Lattice Modulation with Hard X-ray Free Electron Laser

Speaker
Haoyuan Li

Attosecond metrology of a seeded free electron laser

Speaker
John Walters

Core-Hole Attosecond Electronic Coherence in Molecular Systems

Speaker
Federico Vismarra

Imaging the valence electron density in crystalline materials using X-ray Optical Mixing

Speaker
Chance Ornelas-Skarin

Characteristics of SSMB Radiation

Speaker
Xiujie Deng

Harmonic lasing self-seeded FEL in a RAFEL cavity with multilayer mirrors

Speaker
Paris Franz

Structured X-rays from structured light via ICS

Speaker
Nicholas Matlis

Critical slippage effects in laser-plasma-accelerator-driven free-electron lasers*

Speaker
Dr Henry Freund

Opportunities offered by the variable polarization afterburner at the European XFEL

Speaker
Suren Karabekyan

Stochastic Cooling Enhanced Steady-State Microbunching

Speaker
Xiujie Deng

FACET-II: recent experimental results and plans for R&D relevant to FEL applications

Speaker
Claudio Emma

Modeling BELLA center FEL results

Speaker
Samuel Barber

Slippage and Energy Chirp Effects in the Laser-Plasma-Accelerator-Driven FEL at the LBNL BELLA Center

Speaker
Tehya Andersen

Experimental Design and First Results from the Plasma-Driven Attosecond X-Ray Experiment at FACET-II

Speaker
Rafi Hessami

Pair beams unlock beyond-terawatt attosecond free-electron laser pulses

Speaker
Cagri Erciyes

Single-Cycle Waveform Control of Undulator Radiation Using Plasma-Accelerated Beams

Speaker
Jenny Morgan

Numerical and experimental benchmarking of microbunching instability with intrabeam scattering at linac-FELs

Speaker
Simone Di Mitri

Recalculation of brilliance of x-ray sources via Lambert function for SASE FELs

Speaker
Simone Di Mitri

Cascaded Electron Accelerator with Terahertz Pulses

Speaker
Zoltán Tibai

Modal and Vlasov Descriptions of EEHG FEL

Speaker
Pardis Niknejadi

Spatially Resolved Spectral Diagnostics for Temporally Separated OAM Pulse Pairs with Different Topological Charges

Speaker
Jenny Morgan

Probing ultrafast heating and ionization dynamics in solid density plasmas with time-resolved resonant X-ray absorption and emission

Speaker
Lingen Huang

Analysis of two color FEL operation at BL3 at SACLA

Speaker
Liubov Samoylova

AURA - The Most Compact Broadband FTIR Spectrometer (3–600 µm) for IR-FEL and Laser Diagnostics

Speaker
Dr Ekaterina Jung

Biological Effects of Mid-Infrared Free-Electron Lasers: Electroretinograms from Compound Eyes of Two Arthropod Species

Speaker
Fumio Shishikura

Status of development of an x-ray laser oscillator based on population inversion pumped by the LCLS-II-HE free electron laser

Speakers
Aliaksei Halavanau, Dr Claudio Pellegrini

18:00