

Free Electron Laser Conference FEL2024 August 18-23, 2024 - Warsaw, Poland						
FEL2024	Sunday 18.08.2024	Monday 19.08.2024	Tuesday 20.08.2024	Wednesday 21.08.2024	Thursday 22.08.2024	Friday 23.08.2024
8:00-8:45		Opening	Session 3 - SASE-FEL (110 min) chair: Gianluca Geloni (EU-XFEL)	Session 6 Electron sources (110 min) chair: Laura Badano (Elettra)	Session 10 - Electron diagnostics, timing, synchronization & controls (110 min) chair: Rasmus Ischebeck (PSI)	Session 12 -Advanced FEL modes and science applications, (110 min) chair: Agostino Marinelli (SLAC)
8:45-9:20		Richard Walker, (Diamond LS) "In Memoriam: Mike Poole (1945-2023)" Mathias Vogt (DESY) "In Memoriam: Siegfried Schreiber (1959-2024)" 8.45-9.00	(I) Commissioning and operation of a CW X-ray SASE FEL at SLAC Yuantao Ding (SLAC)	(I) Commissioning of the SHINE Electron Source Houjun Qian (Zhangjiang Lab)	(I) Measurement with sub-femtosecond resolution of electron and photon beams Philipp Dijkstal (PSI)	(I) Fully Structured light with seeded free-electron lasers Jenny Morgan (SLAC)
9:20-9:45		Session 1 P1 - First Lasing, New FEL projects and Facility Reports 9.00-10.45 chair: Pawel Kravczyk (NCBJ)	(C) Transformation of FLASH1 to a high repetition rate externally seeded FEL for users Lucas Schaper (DESY)	(I) Overview of the Center for Bright Beams photocathode work Oksana Chubenko (Northern Illinois Univ.)	(I) Efficient 6-dimensional phase space measurements using generative machine learning and applications to autonomous beam monitoring at LCLS-II Ryan Roussel (SLAC)	(I) X-ray FEL lays the groundwork for Scandium-45 nuclear clock, Yuri Shvyd'ko (ANL)
9:45-10:10		Samuel Barber (LBL) Shaikat Khan (TU Dortmund) Zhirong Huang (LCLS) Zhirong Huang (LCLS) Myung Hoon Cho (PAL-XFEL) Marie Emmanuelle Couprie (SOLEIL)	(C) First experience of using corrugated structures at high repetition-rate x-ray free-electron lasers Weilun Qin (DESY)	(C) Breaking Convention: Novel Normal-Conducting Electron Sources for Higher-60 Brightness Thomas Lucas (PSI)	(C) ML-driven Automated Tuning of XFEL for Various Experiments and User-specific Requirements at SACLA Eito Iwai (RIKEN Spring-8 Center)	(C) Experimental demonstration of attosecond pump-probe spectroscopy with an X-ray free-electron laser Zhaoheng Guo (PSI)
10:10-10:35		Winfried Decking (European XFEL) Dave Duning (UK XFEL) Chao Feng (SXFEL)	(C) Terawatt attosecond hard X-ray free-electron laser pulse generation at the European XFEL Jiawei Yan (EuXFEL)	(C) Novel Photocathode Lasers for the Hard- and Soft-x-ray Free Electron Lasers EuXFEL and FLASH Ingmar Hartl (DESY)	(C) Low-jitter conversion from optical references to electrical radio frequency signals Erik Mansten (MAX IV Laboratory)	(C) Demonstration of tunable, phase-locked X-ray FEL pulses (PSI) Wenxiang Hu
10:35-11:00		Coffee	Coffee	Coffee	Coffee	Coffee
11:00-11:35		Session 1 P2 - First Lasing, New FEL projects and Facility Reports 11.10-12.50 chair: Pawel Kravczyk (NCBJ)	(I) Better a chicane today than an undulator tomorrow? Eugenio Ferrari (DESY)	(I) Chicane or arc compressors for FEL? Experience with the MAX IV arc compressors and beyond Sara Thorin (Lund Univ., MAX IV)	(I) Superconducting Undulator developments at the European XFEL Sara Casalbuoni (EuXFEL)	(I) Attosecond capabilities of FELs Agostino Marinelli (SLAC)
11:35-12:00			(I) Conversion to EEHG of the FEL-1 line at FERMILAB: commissioning results and first experience with user's operations Giuseppe Penco (Elettra)	(I) Microbunching Instability Mitigation Strategies and Diagnostic Methods Alexander Darius Brynes (Elettra)	(I) Diamond sensors for fast pulse-resolved hard x-ray FEL beam position and intensity monitoring Wolfgang Freund (EuXFEL)	(I) Attosecond science at FELs Giuseppe Sansone, (Univ Friburg)
12:00-12:25		Luca Giannessi (FERMI) Robert Nietubyc (POFEL, NCBJ) Sven Reiche (PSI/SwissFEL) Lucas Shaper (FLASH) Makina Yabashi (SACLAL) Heishun Zen (Kyoto University) Zhentang Zhao (SHINE) Weiqing Zhang (SXFEL)	(I) Progress with seeding ATHOS, the soft X-ray FEL at SwissFEL Sven Reiche (PSI)	(I) Recent Progress in Steady-State Micro-Bunching Light Source Development Zhilong Pan (Tsinghua Univ.)	(C) Force-Neutral Adjustable Phase Undulators Nathan Burger (RadiaBeam)	(I) A novel single-shot characterization method for attosecond FEL pulses using self-referenced spectral interferometry Yaoyang Xiao (SARI, CAS, China)
12:25-12:50			(C) High-repetition-rate seeded free-electron laser enhanced by self-modulation Hanxiang Yang (Shanghai Institute of Applied Physics)	(I) First measurements of quantum diffusion in an undulator Sergey Tomin (DESY)	(C) Challenges for the LCLS-II HE Instrument Suites Eliazar Ortiz (SLAC)	(I) Applications of Attosecond Soft-X-ray pulses to Photoemission Chronoscopy and Transient Absorption Hans Jakob Werner (ETH Zurich)
12:50-14:30		Lunch break	Lunch break <small>Special offer: Breakfast, Lunch and Machine Learning for Free. (Electra, LCLS)</small>	Lunch break	Lunch break	close-out (ends at 13:20)
14:30-15:05		Session 2 - FEL theory (110 min) chair: Avraham Gover (Tel-Aviv Univ.)	Session 5 - FEL oscillators & IR-FEL (110 min) chair: Alex Halavanau (SLAC)	Session 8 - Novel acceleration and FEL concepts (110 min) chair: Hideaki Ogaki (KEK)		
15:05-15:30		(I) Impact of space charge in externally seeded FEL Eléonore Roussel (Lille University)	(I) The cavity based FEL project at the European XFEL Patrick Rauer (DESY)	(I) Plasma accelerating modules developments for the EUPRAXIA FEL user facility Angelo Biagioni (INFN-Laboratori Nazionali di Frascati)	Transfer and visit to National Centre for Nuclear Research (NCBJ) or sightseeing in Warsaw	
15:30-15:55		(I) Three-dimensional theory of soliton-like superradiant free-electron lasers River Robles (SLAC)	(I) Progress towards construction of cavity-based FEL at SLAC Alex Halavanau (SLAC)	(I) Reduction of the electron-beam divergence of laser wakefield accelerators by integrated plasma lenses Arie Irman (KZDR)		
15:55-16:20		(C) The fundamental QED Origin of Bunched Electron Beam Superradiance Bin Zhang (Ariel University)	(I) Active Q-switched X-Ray Regenerative Amplifier Free-Electron Laser Jinyi Tang (SLAC)	(I) Stable X-ray free-electron lasers based on laser wakefield accelerators and optical undulators Xinlu Xu (Peking Univ.)		
16:20-16:50		(C) Predicting XFEL performance using neural networks with physics constraints Petr Anisimov (Los Alamos National Laboratory)	(I) First operation of a two-color mode in a dual-oscillator infrared free-electron laser Wieland Schöllkopf (FHI Berlin)	(C) Energy and brightness-boosted electron beams from plasma-based accelerators Ahmad Fahim Habib (University of Strathclyde)		
16:50-17:15		Advancements in Light Source Research with the Duke FEL Ying K. Wu (Duke University)		(C) Experimental efforts towards non-collinear superradiant Compton scattering Brian Schaap (University of California)		
17:15-17:40		A one-dimensional model of superradiant spike saturation Brian McNeill (University of Strathclyde)				
17:40-18:00		Advanced Schemes Developed for Free-Electron Laser Applications Zhen Zhang (SLAC)	IEC Meeting			
18:00-18:30		Novel operations of high-repetition-rate X-ray free-electron lasers Jiawei Yan (EuXFEL)				
18:30-19:00	Registration starts at 18:30					
19:00-20:00	Welcome Reception					
20:00-21:00			Dinner IEC			
21:00-21:30					Social Dinner and FEL Prize ceremony Warsaw Castle - Arkady Kubickiego (Grodzka Street Entrance) 19:30-23:00	