PROGRAMME



AT A GLANCE

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
	21 August 2022	22 August 2022	23 August 2022	24 August 2022	25 August 2022	26 August 2022
			Session 3: SASE FELs (Chair: E. Schneidmiller)	Session 6: Electron Sources (Chair: F. Sannibale)	Session 9: Electron Diagn., Timing, Synch. & Controls (Chair: M. Labat)	Session 11: User Experiments (Chair: K. Ueda)
8:45-9:15		Welcome	Cascaded amplification of attosecond X-ray pulses: towards TW-scale ultrafast X-ray FELs Paris Franz (Stanford Univ.)	Review of recent photocathode advancements, Laura Monaco (LASA, Univ. of Milan)	Machine learning-based virtual diagnostic, Adi Hanuka (Eikon Therapeutics)	Probing transient structures of nanoparticles by single-particle X-ray diffraction, Akinobu Niozu (Hiroshima Univ.)
9:15-9:45		In memory of M. Billardon ME. Couprie	Short pulses and 2-color capabilities at the SASE3 FEL line of the EU-XFEL, Svilozar Serkez (EU-XFEL)	First Commissioning of LCLS-II Injector, Feng Zhou (SLAC)	Coherent 3D microstructure of laser-wakefield-accelerated electron bunches Maxwell LaBerge (University of Texas, HZDR)	Novel Lattice Instability in Ultrafast Photoexcited SnSe, Yijing Huang (Stanford Univ.)
9:45-10:10		Session 1: First Lasing (Chair: F. Curbis) 1. G. Geloni, 2. E. Prat, 3. A. Trebushinin, 4. ME. Couprie.	Demonstration of enhanced FEL performance with optical klystron and helical undulators, Christoph Kittel (PSI)	Continuous-wave operation of a low-emittance DC-SRF photocathode gun, Senlin Huang (Peking Univ.)	Self-synchronized and cost-effective time-resolved measurements at x-ray FELs with femtosecond resolution, Philipp Dijkstal (PSI)	Ultrafast dynamics in (TaSe ₄) ₂₁ triggered by optical and x-ray excitation, Federico Cliento (Elettra)
10:10-10:35		4. mE. Gouphe, 5. V. Shpakov 6. P. Musumeci	Two-Colored FEL generation Using Phase Shifters at Undulator, Myung-Hoon Cho (PAL)	Chirped Pulse Laser Shaping for High Brightness Photoinjectors, Christian Koschitzki (DESY, PITZ)	Ultimate pulse-to-pulse stability in non-linear bunch compressors, Erik Mansten (MAX IV)	FLASH2020+ Pump-Probe Laser Upgrade: Concept and Current Status Skirmantas Alisauskas (DESY)
10:35-11:00		Coffee & Exhibition	Coffee & Exhibition	Coffee & Exhibition	Coffee & Exhibition	Coffee & Exhibition
			Session 4: Seeded FELs (Chair: R. Hajima)	Session 7: Electron Beam Dynamics (Chair: S. Thorin)	Session 10: Photon Beamline Instrum. & Undulators (Chair: J. Gruenert)	Session 12: End-to-end Experiments (Chair: F. Capotondi)
11:00-11:30			Coherent and ultrashort soft x-ray pulses from echo-enabled harmonic cascade FEL, Chao Feng (SINAP)	Comparison of Eulerian, Lagrangian and Semi-Lagrangian Simulations of Phase-Space Density Evolution Philipp Amstutz (DESY)	Development of APPLE-III Undulators for FLASH, Markus Tischer (DESY)	Experiments with phase-controlled multi-pulses from FERMI, Carlo Callegari (Elettra)
11:30-12:00		FEL Prize Talks (Chair: V. Litvinenko) 1. G. Stupakov, 2. E. Allaria,	Enhanced Self-Seeding with Ultrashort Electron Beams, Zhen Zhang (SLAC)	First evidence of intrabeam scattering in an electron linac and impact on short wavelength FELs, Giovanni Perosa (Univ. of Trieste, Elettra)	XFEL sub-10 nm focusing mirror system at SACLA for achieving 10 ²² Wicm ² intensity, Jumpei Yamada (Osaka Univ.)	Observation of coherent electronic motion with X-ray FELs, James P. Cryan (SLAC)
12:00-12:25		3. A. Lumpkin, 4. J. Duris, 5. C. Feng	Comparison of transverse coherence properties in seeded and unseeded FEL, Mihai Pop (MAX IV)	Energy spread blow-up by intra-beam scattering and micro- bunching at the SwissFEL injector, Eduard Prat (PSI)	Ringdown Demonstration of a Low-Loss 14 m Hard X-ray Cavity Rachel Margraf (Stanford Univ.)	The role of light possessing orbital angular momentum in ptychographic imaging experiments, Matteo Pancaldi (Elettra)
12:25-12:50			First observation of laser-beam interaction in a dipole magnet, Jiawei Yan (EU-XFEL)	Characterization of the European XFEL pulses in the presence of Microbunching instability, Najmeh Mirian (EU-XFEL)	AC/DC: the FERMI FEL split and delay optical device for ultrafast X-Ray science, Alberto Simoncig (Elettra)	A perfect X-ray beam splitter and its applications to time- domain interferometry and quantum optics exploiting FELs, Sven Reiche (PSI)
12:50-14:10		Lunch break	Lunch break (SPC Lunch Meeting)	Lunch break	Lunch break	Close-out (ends at 13:00)
		Session 2: FEL Theory (Chair: A. Gover)	Session 5: FEL Oscillators and IR-FELs (Chair: Y. K. Wu)	Session 8: Novel Acceleration and FEL Concepts (Chair: E. Roussel)		
14:10-14:40		Population inversion X-ray laser oscillator at LCLS, Aliaksei Halavanau (SLAC)	Observation of Burnham-Chiao ringing with pi-phase jumps in a high-efficiency superradiance FEL oscillator, Heishun Zen (IAE, Kyoto Univ.)	Free-electron Lasing Based on a Laser Wakefield Accelerator, Wentao Wang (SIOM, CAS)		
14:40-15:10		Attosecond polarization modulation of x-ray radiation in a free-electron laser, Jenny Morgan (Univ. of Strathclyde, SLAC)	FEL Lasing below 170 nm using an oscillator, Ying Wu (Duke Univ.)	First SASE and Seeded FEL Lasing based on a beam driven wakefield accelerator, Mario Galletti (University of Rome 'Tor Vergata', INFN-LNF)		
15:10-15:35		Proposal for a Quantum Free Electron Laser driven by Ultracold Electrons Brian H. Schaap (TU/e)	Single pass high efficiency THz FEL, Andrew Fisher (PBPL)	First laser plasma accelerator based seeded FEL, Marie Labat (SOLEIL)	Transfer and visit to Elettra Sincrotrone Trieste	
15:35-16:00		Quantum diffusion in coherent radiation, Gennady Stupakov (SLAC)	THz FEL oscillator synchronized soft X-rays via Thomson back- scattering: a new dual source technique, Vittoria Petrillo (Univ. of Milan, INFN)	Bridging the gap of storage ring light sources and linac-driven FELs, Simone Di Mitri (Elettra, Univ. of Trieste)		
16:00-17:30		Coffee, Posters & Exhibition		Coffee, Posters & Exhibition		
17:30-18:00	Registration	Tutorial 1 (Chair: C. Blasetti): How to expand your research network and write a successful project	Coffee, Posters & Exhibition	Tutorial 2 (Chair: G. De Ninno) Meeting the editor. Serena Dalena (Physical Review Letters)		
18:00-19:00	Welcome Reception	proposal. B. Redlich, S. Jacquemot, C. Blasetti	IEC Meeting	Oliver Graydon (Nature Photonics)	Transfer to Trieste	
20:00-21:00 21:00-22:00			Dinner IEC & Chairs		Social Dinner and FEL Prize ceremony	