

FEL2019 Program

Universität Hamburg, Main Building													DESY, Auditorium		
Monday 26.8.2019			Tuesday 27.8.2019			Wednesday 28.8.2019			Thursday 29.8.2019			Friday 30.8.2019			
Start	Length		Start	Length		Start	Length		Start	Length		Start	Length		
08:00	02:00	Registration													
10:00	00:00	Welcome Addresses Chair: W. Decking, H. Sinn													
10:00	00:15	Welcome Address Katharina Fegebank, 2nd Mayor City of Hamburg and Senator for Science, Research and Equality													
10:15	00:10	Welcome Addresses Robert Feidenhans'l, Chairman of EuXFEL Management Board Wim Leemans, Director of DESY Accelerator Division													
MOA		Memorial Talk Chair: W. Decking, H. Sinn													
10:25	00:15	In memorial Alberto Renieri: Riding the FEL Instability Marie-Emmanuelle Couprie for Guisepppe Dattoli													
MOA		First Lasing Chair: W. Decking, H. Sinn	TUA		SASE FEL Chair: E. Prat	WEA		Electron sources Chair: B. Carlsen	THA		FEL applications Chair: Y.U. Jeong	FRA		Status of projects and facilities 2 Chair: L. Giannessi	
10:40	00:05	First Lasing of a Free Electron Laser in the Soft X-Ray Spectral Range With Echo Enabled Harmonic Generation Enrico Allaria	09:00	00:30	Parallel Operation of SASE1 and SASE3 at European XFEL Shan Liu	09:00	00:30	Overview on CW RF Gun Developments for Short Wavelength FELs Houjun Qian	09:00	00:30	Serial Femtosecond Crystallography at MHz XFELs Marie Luise Gruenbein	09:00	00:30	FEL Operation at the European XFEL Facility Dirk Noelle	
10:45	00:05	First Lasing at the CAEP THz FEL Facility Peng Li	09:30	00:30	Two-Pulse Schemes in Soft and Hard X-Ray FELs: Robustness Analysis of State-of-the-Art Solutions Alberto Lutman	09:30	00:30	State-of-the-Art Photocathodes and New Developments Nathan Moody	09:30	00:30	Searching for the Hypothesized Liquid-Liquid Critical Point in Supercooled Water with X-ray Free Electron Laser Kyung Hwan Kim	09:30	00:30	LCLS-II - Status and Upgrades Axel Brachmann	
10:50	00:05	First Lasing at the SASE2 and SASE3 FELs of European XFEL Matthias Scholz	10:00	00:15	Generation of Sub-Femtosecond X-Ray Pulses at SwissFEL Alexander Malyuzhenkov	10:00	00:15	Emission Budget in the Transition Regime Between Linear Emission and Space Charge Dominated Photoemission Ye Chen	10:00	00:30	IR-FEL Project at the cERL and Future EUV-FEL Lithography Ryuko Kato	10:00	00:30	FLASH - Status and Upgrades Juliane Roensch-Schulenburg	
10:55	00:05	First Lasing at SXFEL Bo Liu	10:15	00:15	Harmonic Lasing Experiment at the European XFEL Evgeny Schneidmiller	10:15	00:15	Growing and Characterization of Cs2Te Photocathodes With Different Thicknesses at INFN LASA Laura Monaco	10:30	00:15	Ultrafast Magnetization Dynamics at the Low-Fluence Limit Supported by External Magnetic Fields Matthias Riepp	10:30	00:30	Status of SXFEL Test and User Facilities Zhentang Zhao	
11:00	00:05	Commissioning of CW FEL Amplifier for Coherent Electron Cooler Vladimir N. Litvinenko													
11:05	00:05	Commissioning Status of FELiCHEM, an IR-FEL User Facility in China Heting Li										11:00	00:30	Concluding remarks Intro Lab Visits	
11:30	00:30	Coffee Break	10:30	00:30	Coffee Break	10:30	00:30	Coffee Break	10:45	00:30	Coffee Break	11:30	00:30	Coffee Break	
MOB		Status of projects and facilities 1 Chair: S. Schreiber	TUB		Seeded FEL Chair: S. Werin	WEB		Electron diagnostics, timing, synchronization, and controls Chair: A. Lumpkin	THB		Electron beam dynamics Chair: S. Bettoni	12:00		05:00	Laboratory visits EuXFEL, FLASH
12:00	00:30	Operation Status and Future Perspective of Warm XFEL Hitoshi Tanaka	11:00	00:30	Echo-Enabled Harmonic Generation Lasing of the FERMI FEL in the Soft X-Ray Spectral Region Primoz Rebernik Ribič	11:00	00:30	Identification and Mitigation of Smoke-Ring Effects in Scintillator-Based Electron Beam Images at the European XFEL Gero Kube	11:15	00:30	Using an E-SASE Compression to Suppress Microbunch Instability and Resistive-Wall Wake Effects Petr Anisimov				
12:30	00:30	Overview on Future Continuous Wave X-Ray Free Electron Lasers Hans Weise	11:30	00:30	Reflection Self-Seeding at SACLA Toru Hara	11:30	00:30	Wire-Scanners with Sub-Micrometer Resolution: Developments and Measurements Gian Luca Orlandi	11:45	00:30	Understanding 1-D to 3-D Coherent Synchrotron Radiation Effects Alexander Brynes				
			12:00	00:30	Hard X-Ray Self-Seeding at PAL-XFEL Chang-Ki Min	12:00	00:30	Application of Machine Learning to Beam Diagnostics Elena Fol	12:15	00:15	Emission Measurements and Minimization at SwissFEL Philipp Dijkstal				
			12:30	00:15	Generation and Measurement of Intense Few-Femtosecond Superradiant Soft X-Ray Free Electron Laser Pulses Simone Spampinati	12:30	00:15	Few-Femtosecond Facility-wide Synchronization of the European XFEL Sebastian Schultz	12:30	00:15	Longitudinal Phase Space Study on Injector Beam of High Repetition Rate FEL Qiang Gu				
13:00	01:30	Lunch Break	12:45	01:30	Lunch Break	12:45	01:30	Lunch Break	12:45	01:30	Lunch Break				
MOC		FEL 2017 Prize Talks Chair: D. Wang	TUP		Poster Session 1	WEP		Poster Session 2	THP		Poster Session 3				
14:30	00:20	Regenerative Amplifier FEL - From IR to X-Rays Dinh C. Nguyen	14:15	01:30	FEL Theory SASE FEL Seeded FEL FEL oscillators and long wavelengths FEL	14:15	01:30	Electron Sources Electron diagnostics, timing, synchronization, and controls Photon beamline instrumentation and undulators	14:15	01:30	FEL applications Electron beam dynamics Novel concepts and techniques Status of projects and facilities				
14:50	00:40	Microbunching Instability and Laser Heater Impact on Seeded Free Electron Lasers Eléonore Roussel, Eugenio Ferrari													
15:30	00:20	Accelerator Challenges for XFELs With Very High X-Ray Energies Bruce Carlsten													
15:50	00:25	Coffee Break	15:45	00:30	Coffee Break	15:45	00:30	Coffee Break	15:45	00:30	Coffee Break	00:00	00:00	End of Conference	
MOD		FEL Theory Chair: J. Wu	TUD		FEL oscillators and long wavelengths FEL Chair: O. Shevchenko	WED		Photon beamline instrumentation and undulators Chair: J. Grünert, S. Schreiber	THD		Novel concepts and techniques Chair: R. Geometrante				
16:15	00:30	Physics of Post-Saturation Tapered FEL Towards Single-Frequency Terawatt Output Power Cheng-Ying Tsai	16:15	00:30	Generating Orbital Angular Momentum Beams in an FEL Oscillator Ying K. Wu	16:15	00:30	Experience with Short-Period, Small Gap Undulators at the SwissFEL Aramis Beamline Thomas Schmidt	16:15	00:30	From Femtosecond to Attosecond Coherent Undulator Pulses Vitaly Goryashko				
16:45	00:30	Microbunch Rotation and Coherent Undulator Radiation From a Kicked Electron Beam James MacArthur	16:45	00:30	Application of Infrared FEL Oscillators for Producing Isolated Attosecond X-Ray Pulses via High-Harmonic Generation in Rare Gases Ryoichi Hajima	16:45	00:30	Absorbed Radiation Doses on the European XFEL Undulator Systems During Early User Experiments Frederik Wolff-Fabris	16:45	00:30	Attosecond Pulses From Enhanced SASE at LCLS Agostino Marinelli				
17:15	00:15	Hanbury Brown and Twiss Interferometry at XFEL Sources Ivan Vartaniants	17:15	00:15	Fine and Hyperfine Structure of FEL Emission Spectra Vitaly V. Kubarev	17:15	00:15	Pulse resolved photon diagnostics at MHz repetition rates Jan Grünert	17:15	00:30	FEL Optimization: From Model-Free to Model-Dependent Approaches and ML Prospects Sergey Tomin				
17:30	00:15	Post-Saturation Dynamics of a Superradiant Spike in a Free-Electron Laser Amplifier Xi Yang	17:30	00:15	Cavity-Based Free-Electron Laser Research and Development Gabriel Marcus	17:30	00:15	Undulator Adjustment with the K-Monochromator System at the European XFEL Wolfgang Freund	17:45	00:15	A Novel Optical Undulator Using Array of Pulse-Front Tilted Laser Beams Weihao Liu				
17:45	01:15	Break	17:45	00:15	Break	17:45	00:15	Break	18:00	01:00	Break				
			TUT		Tutorial Chair: S. Schreiber	WET		Tutorial Chair: A. Lumpkin							
			18:00	01:00	Coherent Spontaneous Superradiance and Stimulated-Superradiant Emission of Bunched Electron Beams Avi Gover	18:00	01:00	Photon Transport Beamline Design Harald Sinn							
19:00		Welcome Reception	19:00		End of session	19:00		End of session	19:00		Conference Dinner				