



DESY Photon Science Users' Meeting 2025
European XFEL Users' Meeting 2025
 in Hamburg, Germany
DESY Auditorium (Bldg. 5) & CFEL Foyer (Bldg. 99)



DRAFT Programme

Monday, January 20: Satellite Workshops

Organiser or Affiliation

Tuesday, January 21: European XFEL Users' Meeting & Satellite Workshops

16:00-19:00	POSTER SESSION I and Vendor Exhibition	Coffee break
until 21:00	European XFEL Get Together	Reception (European XFEL campus)

Wednesday, January 22: DESY Photon Science Users' Meeting (FLASH) & Joint Session & Satellite Workshops

08:30	Registration	
		<i>Chairperson: E. Plönjes (DESY)</i>
09:00	<i>Welcome to the FEL Session</i>	Britta Redlich / Franz Kärtner DESY/Univ. Hamburg
09:20	<i>FLASH status und strategy</i>	Markus Gühr DESY Hamburg
09:55	<i>FLASH 2020+ Activities - Update</i>	Lucas Schaper DESY Hamburg
10:25 - 11:00	Coffee break	
		<i>Chairperson: R. Treusch (DESY)</i>
11:00	All-optical single-shot temporal characterisation of SASE FEL pulses	Francesca Calegari DESY/Univ. Hamburg
11:30	Investigation of photoionization induced dynamics in the CO ₂ dimer	Daniel Strasser Hebrew University Jerusalem (Israel)
12:00	Coupled Electron-Nuclear Dynamics Induced and Monitored with Femtosecond Soft X-Ray Pulses in the Amino Acid Glycine	Tim Laarmann DESY
12:30 - 14:00	Lunch break	
14:00-16:00	Data Science (Jointly organised session)	
		<i>Chairperson: B. Murphy (DESY, CAU Kiel)</i>
14:00	Real time data analysis at PETRA III	Thomas White DESY
14:30	Weak signal extraction enabled by deep neural network denoising of diffraction data	Jens Oppliger Univ. Zürich (Switzerland)
15:00	A High-Throughput Data Pipeline for MHz XPCS: Analyzing Protein Dynamics via Solution Scattering	Aliaksandr Leonau Univ. Siegen (Germany)
15:30	Machine-learning-enhanced characterization of x-ray pulses	Danilo Enoque Ferreira de Lima European XFEL

16:00-19:00	POSTER SESSION II and Vendor exhibition	Coffee break
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Thursday, 23 January: DESY Photon Science Users' Meeting (PETRA III) & Satellite Workshops

08:30	Registration	
		<i>Chairperson: S. Techert (DESY, Uni. Göttingen)</i>
09:00	Welcome	Helmut Dosch DESY Hamburg
09:20	Welcome and Overview DESY Photon Science 2024	Britta Redlich / Franz Kärtner DESY Hamburg

09:55	PETRA IV Update	Harald Reichert	DESY Hamburg
10:25 - 11:00 Coffee break			
11:00	PETRA III Status	Christian Schroer	DESY/Univ. Hamburg
11:30	Chiral electrons probed by polarized X-rays	Hendrik Bentmann	NTNU Trondheim (Norway)
12:00	3D printing of stimuli responsive bio-based materials made of nanocellulose	Julien Navarro	Inst. of Wood Science, Univ. Hamburg (Germany)

12:30 - 14:00 Lunch break

<i>Chairperson: H.-C. Wille (DESY)</i>			
14:00	Report of the 'DESY Photon Science User Committee' (DPS-UC)	Peter Müller-Buschbaum (DPS-UC)	TU München, Germany
14:10	DESY Photon Science User Award 2024 ceremony	Heinz Graafsma (Chair Award commit.)	DESY
14:20	Research with Photons – Light for the Future: News from the KFS (Committee Research with Synchrotron Radiation)	Christian Gutt (KFS Chair)	Univ. Siegen (Germany)
14:30	Nanoscale dark-field imaging in full-field transmission X-ray microscopy	Sami Wirtensohn	Hereon/TU München (Germany)
15:00	The Oxygen Evolution Reaction Drives Passivity Breakdown for Ni–Cr–Mo Alloys	Alfred Larsson	Lund Univ. (Sweden)/Leiden Univ. (Netherlands)
15:30	Probing Redox and Structural Dynamics in Emerging Battery Chemistries Using Synchrotron Radiation	Katherine A. Mazzio	HU Berlin (Germany)
16:00	Structural Elucidation of a Metagenomic Urethanase and Its Engineering Towards Enhanced Hydrolysis Profiles	Uwe Bornscheuer	Univ. Greifswald (Germany)

16:30-19:30 POSTER SESSION III and Vendor exhibition (16h) Coffee break

until 21:00 DESY Get Together Light dinner (DESY canteen Bldg. 9)

Friday, January 24: Satellite Workshops