European XFEL Users' Meeting — Satellite meeting



Status of the HED instrument and the HIBEF contributions and scientific highlights

24.01.2023 at 13:00

Location: European XFEL, Holzkoppel 4, Schenefeld, room E1.173

Meeting in-person and virtual

The HED instrument, in cooperation with the HIBEF user consortium, performs experiments in the field of high-pressure science and plasma physics. In the joint satellite meeting latest results of some user experiments as well as status of the experimental opportunities will be represented. In the last year, foci were the spectroscopic possibilities at HED, whereby this year on overview of XFEL operation modes will give some advice for future experiments and new scientific fields are the main topics.

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Date			
13:00	Welcome	U. Zastrau	European XFEL
13:10	Special modes of operation at SASE2	G. Geloni	European XFEL
13:40	The Climate, Astro- & Geo- Pillar in the Centre for Molecular Water Science (CMWS)	G. Gruebel	European XFEL
14:00	The operational report on the HiBEF lasers	T.Toncian	HZDR
14:20	Study of ionization dynamics in relativistic laser plasmas using XFEL	M. Mishchenko	European XFEL
14:40	Coffee break		
15:10	Pulsed laser heating combined with MHz X-ray diffraction to study partial melting in Diamond Anvil Cell	G. Morard	ISTerre, UGA
15:30	X-ray emission spectroscopy from diamond anvil cells at HED	J. Kaa	TU Dortmund
15:50	X-ray fluorescence from solid density plasmas heated by the European XFEL	G. Williams	IPFN
16:10	Status of the HIBEF UC	T. Cowan	HZDR
16:30	Open discussion		