

HED-HIBEF satellite meeting: Instrument updates and science highlights

Wednesday, 28 January 2026

European XFEL, Visitor Centre Lighthouse

Hybrid

The HED-HIBEF instrument, the successful cooperation between European XFEL and the HIBEF user consortium, offers different experimental opportunities. Latest results of selected user experiments as well as status of the experimental opportunities developments after the long shutdown period will be represented. In this year we additionally draw also the attention to development in the field of laser fusion.

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13:00	Welcome and Update about Fusion Research @ EuXFEL	S. Pascarelli	European XFEL
13:20	Update from HED	U. Zastra	European XFEL
13:50	HIBEF Laser upgrades and status	T. Toncian	HZDR
14:20	Iron's spin state under DiPOLE shock - the case of ferropericlas	C. Sternemann	TU Dortmund
14:40	Coffee Break		
15:00	Shock-induced structural changes in CaSiO_3 glass	A. Phelipeau	DESY / Uni. Freiburg
15:20	A Megajoule Experiment at an XFEL: High repetition-rate X-ray Thomson scattering measurements in shock-compressed plastics	T. Preston	European XFEL
15:40	State of the art of X-ray radiography of laser-driven experiments at hard X-ray free electron lasers, and current capabilities at the HED instrument	V. Bouffetier	HZDR
16:00	Conclusion		
18:00	Dinner in BeamStop		