

# European XFEL Users' Meeting — Satellite meeting



## First experiments with a high-intensity short-pulse laser at HED/HIBEF

Mon. 27-28 January 2020 / Room: XTOB 1.01

European XFEL, Holzkoppel 4, 22869 Schenefeld

The main goal of this workshop is to inform potential future users of the current development status of the high-intensity short-pulse laser commissioning at the HED instrument and discuss early user experiments. These include the High Intensity (~100 TW) laser (HIBEF/Amplitude) and the Pump-Probe laser (EuXFEL) systems. Summary and feedback to the previous 2017 workshop will be given. The workshop provides ample time for open discussion.

Organizer: Toma Toncian and Motoaki Nakatsutsumi

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### Mon. 27 Jan 2020 – EuXFEL XTOB 1.01

13:30	<b>Welcome</b>	T. Cowan (tbd)	HZDR
13:40	<b>Summary of the last workshop “High Intensity Laser Matter Science at the HED Instrument at the European XFEL” in 2017. Desires and requirements.</b>	T. Toncian M. Nakatsutsumi	HZDR European XFEL
14:10	<b>Status of the instrument</b>	Chair: M. Nakatsutsumi	
14:10	Overview and status of the HED instrument	T. Preston	European XFEL
14:30	Status of the high-intensity 100 TW laser	T. Toncian	HZDR
14:50	Status of the online timing tool	J-P. Schwinkendorf	European XFEL
15:00	Status of the pump-probe (PP) laser	J-P. Schwinkendorf	European XFEL
15:10	<b>Coffee</b>		
15:40-16:45	<b>Roadmap towards standard setups</b>	Chair: T. Toncian	
15:40	Small angle X-ray scattering	M. Smid	HZDR
15:55	Polarimetry (recent XFEL experiment)	H-P. Schlenvoigt	HZDR / Jena
16:20	Phase contrast imaging (PCI) / nano-focusing	M. Makita	European XFEL
16:35	Fast sample scanner, robotic arm	M. Makita	European XFEL
16:45	EMP – current challenge and plans	S. Göde	European XFEL
16:55	<b>Small break</b>		
17:10	<b>Recent experiments</b>	Chair: A. Pelka	
17:10	Resonant SAXS experiment at LCLS	T. Kluge	HZDR
17:25	Small Angle X-ray Scattering on Rod Assembly Target at SACLA	M. Ota	U. Osaka, Japan
17:40	Overview of short-pulse laser experiments at LCLS	M. Gauthier/ C. Curry	LCLS
17:55	GISAXS experiment at SACLA	M. Nakatsutsumi	European XFEL
18:10	<b>Open discussion</b>	Chair: U. Zastrau	
18:30	<b>Dinner Buffet at BeamStop Restaurant</b>		

### Tue. 28 Jan 2020 – EuXFEL XTOB 1.01

9:30	<b>Open discussion</b>	Chair: T. Toncian and M. Nakatsutsumi (tbd)	HZDR European XFEL
	Preparation for the first-day experiments		
	Community proposal		
11:30	<b>Final remarks, closing of the workshop</b>		
12:00	<b>Lunch at BeamStop Restaurant</b>		