



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.

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Mon. 27 Jan 2020 – EuXFEL XTOB E1.01

13:30	Welcome	T. Cowan (tbd)	HZDR
13:40	Summary of the last workshop “High Intensity Laser Matter Science at the HED Instrument at the European XFEL” in 2017. Desires and requirements.	T. Toncian M. Nakatsutsumi	HZDR European XFEL
14:10	Status of the instrument	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	Coffee		
15:40-16:45	Roadmap towards standard setups	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	Small break		
17:10	Recent experiments	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	Open discussion	Chair: U. Zastra	
18:30	Dinner Buffet at <i>BeamStop</i> Restaurant		



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