



MID Workshop: First year of operation and future developments

Mon 27 - Tue 28 January 2020 / Room: XHQ E1.173
European XFEL, Holzkoppel 4, 22869 Schenefeld

The workshop is addressing the very first user experiments at the Materials Imaging and Dynamics (MID) instrument performed from March to November 2019. A status report of MID will be given together with selected presentations from user groups that span a diverse set of scientific topics, experimental techniques, and beam parameters. New equipment arriving at the instrument in 2020 will be discussed, e.g. a synchronized optical fs laser for pump-probe experiments and an X-ray split-delay line for XPCS applications. Together with developments of the source this will further broaden the scientific scope and strengthen the capabilities of MID.

Organizer: Anders Madsen

Contact: anders.madsen@xfel.eu

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13:30	Welcome	Sakura Pascarelli	European XFEL
13:40	MID status	Anders Madsen	European XFEL
<i>Session I. Chair: U. Boesenberg, European XFEL</i>			
14:20	Laser-induced cavitation probed by single pulse holographic imaging	Tim Salditt	Uni. Göttingen
14:55	Evaporating laminar jets at XFELs for studies of crystal nucleation and growth in supercooled atomic liquids	Robert Grisenti	Uni. Frankfurt
15:30	Wavefront characterization using ptychography	Benedikt Daurer	National Uni. Singapore
16:05	Coffee break		
<i>Session II. Chair: J. Möller, European XFEL</i>			
16:25	New emerging possibilities at MID	Jörg Hallmann	European XFEL
17:00	Detector challenges in fast XPCS experiments	Christian Gutt	Uni. Siegen
17:35	High intensity with extreme focusing	Saša Bajt	DESY
18:10	Discussion and wrap up		
18:30	Dinner Buffet at BeamStop Restaurant		

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<i>Session III. Chair: A. Zozulya, European XFEL</i>			
9:30	Ultrafast X-ray photon correlation spectroscopy using hard X-ray split-and-delay line at FELs	Wojciech Roseker	DESY
10:05	Time resolved Bragg coherent diffraction imaging and fluctuation spectroscopy of oxide thin films	Ian Robinson	BNL & UCL
10:40	Collective radiative processes induced by the interaction of XFELs with matter	Andrei Benediktovitch	CFEL
11:15	Coffee break		
<i>Session IV. Chair: A. Madsen, European XFEL</i>			
11:35	Probing inhomogeneous structural dynamics and dynamic heterogeneity with LCLS-II	Diling Zhu	SLAC
12:10	Discussion, feedback and summary		
13:00	Lunch		
14:00	MID instrument visit (optional)		