

Grazing-incidence X-ray experiments using FELs

22 January 2024 / XHQ, Room E1.173, European XFEL

This is a one-day meeting on grazing incidence scattering techniques, GID, GISAXS, GI-XAS, with special emphasis on applications at X-ray free-electron lasers. The aim of the workshop is to discuss the current status of the research performed worldwide, to stimulate future activities and research directions, as well as to get feedback from users and potential future users.

Monday, 22 nd January, 2024			
Time	Session	Speaker	Chair
8:30-9:30	Registration, coffee and snacks		
9:30-9:45	Welcome	S. Pascarelli Eu XFEL	
9:45-10:00	Early promises of Grazing Incidence Scattering at Free Electron Lasers	R. Feidenhans'l Eu XFEL	A. Zozulya Eu XFEL
10:00-10:30	Exploring soft matter dynamics using FELs	F. Schreiber Uni Tübingen	
10:30-10:50	Using reflectivity to reveal structure and dynamics at liquid interfaces across time scales	B. Murphy Uni Kiel	
10:50-11:10	Tracking the origin of a magneto-structural phase transition in the time-domain	M. Sacchi Soleil/CNRS	P. Zalden Eu XFEL
11:10-11:30	Time-resolved grazing incidence X-ray absorption spectroscopy for the study of dynamical processes at surfaces and interfaces	D. Lützenkirchen-Hecht Uni Wuppertal	
11:30-12:00	Coffee break		
12:00-12:20	In-situ studies on hybrid thin film formation with advanced grazing incidence methods	P. Müller-Buschbaum TUM	M. Nakatsutsumi Eu XFEL
12:20-12:40	Probing laser-driven structure formation with high temporal and spatial resolution	K. Sokolowski-Tinten Uni Duisburg-Essen	
12:40-13:00	GISAXS and GID for laser ablation and plasma surface dynamics; challenges and opportunities	L. Randolph Eu XFEL	
13:00-14:00	Lunch break		
14:00-14:20	Time-resolved GISAXS for advanced materials processing	S. Roth DESY	Ch. Milne Eu XFEL
14:20-14:40	The multipurpose surface diffraction instrument at SwissFEL - Bernina	M. Sander PSI	
14:40-15:20	Grazing-incidence experiments platform at MID/FXE/HED at European XFEL	A. Zozulya, P. Zalden, M. Nakatsutsumi Eu XFEL	
15:20-15:50	Coffee break		
15:50-16:00	Group photo		
16:00-16:25	GISAS: Towards AI-assisted data analysis	M. Ganeva FZ Jülich	A. Madsen Eu XFEL
16:25-17:10	Open discussion		S. Pascarelli Eu XFEL
17:10-18:00	Closing remarks	S. Pascarelli Eu XFEL	
18:00-18:45	Facility tour		
19:00-21:30	Dinner at the BeamStop		