European XFEL Users' Meeting — Workshop

Status and development of SCS Instrument

23 January 2025 / XHV - Auditorium at the Lighthouse Visitor Centre, European XFEL

The aim of the workshop is to present the latest capabilities of the Spectroscopy and Coherent Scattering (SCS) instrument and to discuss the opportunities offered by the new developments. The meeting will cover the advances of the instrument for the study of quantum materials as well as the enhanced capabilities for photochemistry and biochemistry research. The integration of the tunable MIR-THz laser source for early user experiments in 2026 and the development of attosecond spectroscopy to study ultrafast electron dynamics in solids and aqueous solutions will be given and discussed.

Organiser: Andreas Scherz

Contact: andreas.scherz@xfel.eu

Thursday, 23rd January 2025

Time	Session	Speaker	Facility
08:45-09:00	**Welcome with coffee // Poster session**		
09:00-09:15	Overview	**A. Scherz**	European XFEL
09:15-09:45	New opportunities for FemtoXMCD and mSAXS with variable polarization	**L. LeGuyader**	European XFEL
09:45-10:15	Advances of the hRIXS instrument for time-resolved RIXS of quantum materials	**J. Schlappa**	European XFEL
10:15-10:45	Recent developments in solution phase RIXS and XAS for photochemical investigations	**B. van Kuiken**	European XFEL
10:45-11:15	**Coffee break // Poster session**		
11:15-11:35	Optical laser delivery update	**R. Carley**	European XFEL
11:35-11:55	X-ray diffraction opportunities at SCS	**G. Mercurio**	European XFEL
11:55-12:15	Beam transport of short pulses and new spectroscopic capabilities	**N. Gerasimova**	European XFEL
12:15-12:45	Opportunities for X-ray pump – X-ray probe attosecond science	**L. Mercadier**	European XFEL
12:45-13:00	**Closing session**		