

European XFEL Lecture Course 2026
"Materials Research at X-ray Free-Electron Lasers"

DRAFT

On-site Lectures in Room XHQ - E1.173 (Monday), XHO Lounge Meeting Room (Tue), and XHQ - E1.172 (Wed-Fri)

Zoom link: [tba - will be distributed by e-mail]

Different schedule due to excursions				
Monday, 21 Sept.	Tuesday, 22 Sept. (XHO Lounge Meeting Room)	Wednesday, 23 Sept. (XHQ - E1.172)	Thursday, 24 Sept. (XHQ - E1.172)	Friday, 25 Sept. (XHQ - E1.172)
Excursion DESY 09:00 - 10:30 Meeting point: in CFEL Foyer shortly before 9 a.m.				
Transfer to EuXFEL 10:30 - 11:00				
Excursion EuXFEL 11:00 - 12:30 Meeting point: Foyer at XHQ	10:00 - 11:40 Lecture <i>Physics of X-Ray Free-Electron Lasers</i> (Gianluca Geloni)	10:00 - 11:40 Lecture Diagnostics of Radiation at XFELs (Naresh Kujala)	10:00 - 11:40 Lecture <i>Materials Imaging and Dynamics: Methods, Devices, Experiments</i> (Anders Madsen)	10:00 - 11:40 Lecture Femtosecond X-Ray Experiments: Methods, Devices, Experiments (Chris Milne)
12:30 - 13:30 Lunch	11:40 - 13:00 Lunch	11:40 - 13:00 Lunch	11:40 - 13:00 Lunch	11:40 - 13:00 Lunch
13:30 - 15:10 Lecture <i>From Synchrotrons to X-Ray Free Electron Lasers</i> (Serguei Molodtsov)	13:00 - 14:40 Lecture <i>Undulators - Sources of Radiation</i> (Sara Casalbuoni)	13:00 - 14:40 Lecture <i>Optical Lasers for pump-probe experiments</i> (Maximilian Lederer, Ilie Radu)	13:00 - 14:40 Lecture <i>Small Quantum Systems: Methods, Devices, Experiments</i> (Michael Meyer)	13:00 - 14:40 Lecture <i>High Energy Density: Methods, Devices, Experiments</i> (Ulf Zastra)
	14:40 - 15:00 Break	14:40 - 15:00 Break	14:40 - 15:00 Break	14:40 - 15:00 Break
[Freiberg students return home]	15:00 - 16:40 Lecture <i>Optics, Radiation Delivery to Experimental Station</i> (Maurizio Vannoni)	15:00 - 16:40 Lecture <i>Single Particle Imaging & Serial fs Crystallography: Methods, Devices, Experiments</i> (Richard Bean)	15:00 - 16:40 Lecture <i>Spectroscopy and Coherent Scattering: Methods, Devices, Experiments</i> (Andreas Scherz)	15:00 - 16:40 Lecture <i>Future Experimental and Methodological Developments</i> (Markus Ilchen)