



High Energy X-ray Diffraction for Physics and Chemistry

Thursday, 30 January 2020

CFEL, SemR IV, Bldg. 99

High energy X-ray diffraction and scattering based techniques have a unique impact in physics, chemistry, and materials science. In particular, they enable complex in situ and operando experiments and the analysis of local disorder on an atomic scale. This workshop brings together experienced users, interested researchers, and beamline staff. We are going to present and discuss the current and future capabilities available at the high-energy beamlines P07-DESY and P21.1 as well as key experiments that demonstrate the potential of these technique

Organizers: Ann-Christin Dippel, Martin v. Zimmermann

Contact: ann-christin.dippel@desy.de
martin.v.zimmermann@desy.de

PROGRAMME

14:00 Session 1

14:00	Status High Energy X-ray Diffraction Station P07-DESY	Ann-Christin Dippel	DESY
14:30	Status Broad Band Diffraction Beamline P21.1	Oleh Ivashko	DESY
15:00	Phase transformations in the nanowires of thiourea precursor of copper sulfide	Abhisakh Sarma	DESY

15:30-16:00 Coffee break (30 Min.)

Session 2

16:00	Spatially Inhomogeneous Competition between Superconductivity and the Charge Density Wave in $\text{YBa}_2\text{Cu}_3\text{O}_{6.67}$	Jaewon Choi	University of Zurich
16:30	In-situ and operando high-energy grazing incidence X-ray diffraction	Vedran Vonk	DESY Nanolab
17:00	Structure-property relations from thermal diffuse scattering	Björn Winkler	University of Frankfurt
17:30	Discussion		

18:00 End of the workshop