

Organizers: C. Bressler, A. Galler, W. Gawelda, D. Khakhulin, M. Rübhausen, F. Boscherini

Recent developments at Petra III now exploit the high X-ray photon flux available with a newly developed high repetition rate (up to 7.8 MHz) detection system, which will also be used at the FXE Instrument of the European XFEL. The high quality of X-ray signals, which can be now routinely achieved in pump-probe experiments carried out at Petra III at MHz rates, opens up new venues for studies of photophysical and photochemical processes occurring on the picosecond to sub-microsecond time scales. Some initial results will be presented during the workshop pointing towards challenging new research activities to be pursued in the next years, both at Petra III and at European XFEL.

Programme

Tuesday, 26 January 2016

08:30 – 09:45 Opening Session (jointly with DESY/European XFEL – Turkey Workshop)

08:30	General Welcome		
08:45	Overview DESY	H. Dosch	DESY
09:15	Overview European XFEL	M. Altarelli	European XFEL, Hamburg

09:45 - 10:15 Coffee Break (Split into two Sessions)

10:15 – 11:30 MHz Time-Resolved X-Ray Sources: Petra III and European XFEL

A. Meents, DESY

10:15	Workshop Welcome	C. Bressler F. Boscherini M. Rübhausen	European XFEL University of Bologna CFEL
10:30	FXE Scientific Opportunities at European XFEL	W. Gawelda	European XFEL
11:00	(MHz) TR avenues at Petra III: P01, P04, P11	H. Yavas	DESY

11:30 – 13:00 (Bio)chemical Dynamics: New Observables with hard x-rays

C. Bressler, European XFEL

11:30	Transform Methods for ns-ms time resolution	A. Pearson	CFEL
12:00	Primary Steps in Homogeneous Photocatalysis	S. Lochbrunner	Uni-Rostock
12:30	Bio-Inorganic compounds for TR experiments	M. Rübhausen	CFEL

13:00 - 14:00 Lunch Break (Sandwiches for Registrants in Flash Lecture Hall)

14:00 - 16:00 TR Experiments with hard X-Rays, New Sources

M. Rübhausen, CFEL

14:00	X-Ray Detection of Magnetic Resonance Using Heterodyne Approach	A. Rogalev	ESRF
14:30	Solid State Experiments at FXE	F. Boscherini	University of Bologna
15:00	Irreversible Material Dynamics Studied by Single-Pulse TR X-Ray Scattering	K. Sokolowski-Tinten	Uni Duisburg
15:30	AXSIS at DESY: Exploring Frontiers in Attosecond Science, Imaging and Spectroscopy	F. Kärtner	CFEL

16:00-16:30 Coffee Break

16:30 – 18:00 Introduction of FXE capabilities for the early user experiments phase (2017/2018)

16:30	Scientific Instrument FXE: reminder	C. Bressler	European XFEL
	Discussion Round: The first Experiments at FXE	FXE Group	European XFEL

18:00 Closeout / Adjourn

20:00 – 22:30 Dinner for Speakers/Chairs

Registration at www.xfel.eu/2016-users-meeting