

Organizers: Federico Boscherini (Bologna University), Christian Bressler (European XFEL)

The FXE instrument is one of the six baseline instruments at the European XFEL. It is specially optimized to permit combined x-ray spectroscopies and scattering experiments on liquid samples with hard x-radiation. This workshop seeks to extend its capabilities towards solid state applications, which includes the design of a special vacuum chamber around the sample position. The Agenda will include an overview of the FXE instrument including a suggestion to investigate key compounds for photocatalytic and photovoltaic applications, followed by presentations towards the solid state option.

## Programme

### Thursday, 29 January 2015

13:30	Coffee		
13:45	Welcome	C. Bressler F. Boscherini	European XFEL, Hamburg University of Bologna, Italy
14:00 - 14:30	The FXE Scientific Instrument	C. Bressler/N.N.	European XFEL
14:30 - 15:00	Science Case For Solid State Experiments	F. Boscherini	University of Bologna
15:00 - 15:30	Design Details for solid state experiments	M. Pedio	IOM-CNR, Trieste
15:30	Coffee Break		
16:00 - 18:00	<b>Solid State FXE Experiments: User Requirements</b>		
16:00	Femtosecond dynamics of local atomic and electronic structure by spectroscopic study	A. Soldatov / C. Lamberti	Uni Rostov Uni Rostov / Uni Turin
16:30	Exciton transport in Organic semiconductors	M. M. Nielsen	DTU Denmark
17:00	Coupling of structural dynamics in ferroelectrics and strongly correlated electron systems	S. Johnson	ETH Zürich
17:30	Femtosecond dynamics of photoexcited charge carriers in semiconductor photocatalysts	L. Pasquini	University of Bologna
18:00 - 19:00	<b>Discussion: User Needs and Next Steps</b>	F. Boscherini C. Bressler	University of Bologna European XFEL
19:15	Closeout / Adjourn		

Registration at [www.xfel.eu/2015-users-meeting](http://www.xfel.eu/2015-users-meeting)