## **SATELLITE WORKSHOP - Photon Science**



## Organization Instrument Workshop - New instrument for ultrafast spectroscopy of small quantum objects at FLASH1 and FLASH2

## Thursday, 26 January 2017

CFEL Bldg. 99, Seminar Room 1

The new URSA-PQ instrument at FLASH has received funding and is planned to enter commissioning phase in 2019. The instrument is designed for pump-probe spectroscopy of diluted samples in the gas phase. Pump and/or probe pulses are optical laser and x-ray laser pulses from FLASH. The instrument is held compact and modular and can be flanged onto different beamlines at FLASH 1 and FLASH 2. We will have a magnetic bottle time of flight spectrometer available capable for taking electron as well as ion spectra. A sample delivery system for powder molecular samples as well as a gas phase effusive beam is included in the project.

We want to address a maximal number of users with that instrument and thus keep it as flexible as possible under the baseline funding. We invite the user community to express their scientific ideas and specify instrument extensions, if needed.

## Every participant is invited to present a 5min overview of his/her ideas for the instrument.

Organisers: Markus Gühr (Uni Potsdam), Stefan Düsterer (DESY)

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PROGRAMME			
	Session 1: New opportunities at FLASH		Chair: Stefan Düsterer
13:00	Welcome	M. Gühr / S. Düsterer	DESY/Uni Postdam
13:10	Optical Laser Infrastructure at FLASH 1 and 2	I. Hartl	DESY
13:30	Free electron characteristics of FLASH 1 and 2	S. Schreiber	DESY
13:50	Beamline characteristics of FLASH 1 and 2	S. Düsterer	DESY
14:10	Presentation of instrument capabilities	M. Gühr	Univ. Postdam
14:30	Discussion		
15:10	Coffee break		
	Session 2: Scientific opportunities opened by the URSA-PQ Instrument		Chair: Markus Gühr
15:50	Mapping chemical interaction dynamics with photoelectron spectroscopy at FLASH	Ph. Wernet	Helmholz Zentrum Berlin
16:15	Structure and dynamics of atoms and molecules in different charge states probed by FLASH	R. Feifel	Gothenburg University
16:40	Two-color investigation of core hole relaxation dynamics in atoms and clusters at FLASH	T. Mazza	European XFEL
17:05	Opportunities for 5 min presentations and discussions from the user community		
17:50	Summary	M. Gühr/ S. Düsterer	Univ. Potsdam/DESY