

# SATELLITE WORKSHOP - Photon Science



## X-ray absorption spectroscopy at P64/65 current status and future perspectives at PETRA IV

25. 01. 2022

Online

The satellite workshop is intended to give an overview about the current status of the X-ray absorption fine structure spectroscopy beamlines, the associated projects, and results from different external user groups. Short- and long-term plans for instrumentation concerning experimental techniques and sample environments will be presented and discussed, as well as results from users' experiments. This year the perspectives for X-ray absorption spectroscopy and related spectroscopic methods at the future PETRA IV storage ring will be one key aspect of the presentations. Present and future users are strongly encouraged to participate in this workshop and to discuss their options and future plans with the beamline staff.

Organiser: *W. Caliebe, E. Welter*

### DRAFT PROGRAMME

13:00	Welcome	TBD	
13:05	Status of P64	Akhil Tayal	DESY
13:25	Status of P65	Morgane Desmau	DESY
13:45	Phase separation and modulated structures in Ni-Mn magnetic shape memory alloys	Kaustubh Priolkar	Physics & Appl. Sciences, Goa Univ.
14:05	Pump-probe XAS and XES at P64: first results	Maria Naumova	DESY
14:25	X-ray excited optical luminescence (XEOL) measurements at P65 beam line	Sergiu Levenco	Felix-Bloch-Inst., Univ. Leipzig
14:45	Quantitation of thiol functional groups on membranes of bacetria by use of Hg EXAFS	Ulf Skyllberg	Swedish University of Agricultural Sciences
15:05	Properties and Transformations of Nanomaterials in Fires at the Wildland-Urban Interface	Mohammed Baalousha	Env. Health Sciences, Univ. of South Carolina
15:25	<b>Coffee break</b>		
15:40	A-site Cation Influence on the Conduction Band of Lead Bromide Perovskites: the Connection to Slow Hot Carrier Cooling	Gabriel Man	Dep. Physics & Astronomy, Uppsala Univ.
16:00	Time and spatially resolved operando QEXAFS studies during activation of Pt/CeO <sub>2</sub> for low temperature oxidation catalysis	Florian Maurer	ITCP, KIT
16:20	Operando XAS studies of electrocatalysts for the oxygen reduction reaction (ORR) in high-temperature polymer electrolyte fuel cells (HT-PEMFC)	Christina Roth	Electrochem. Process Engineering, Univ. Bayreuth
16:40	<b>Coffee break</b>		
16:55	PETRA IV: XAS/XES	Aleksandr Kalinko	DESY
17:15	PETRA IV: XAFS	Edmund Welter	DESY
17:35	PETRA IV: MatSciLabBL	Wolfgang Caliebe	DESY
17:55	<b>End of the workshop</b>		