



SATELLITE WORKSHOP - Photon Science

XAFS at P64/65 and perspectives for future PETRA III and IV beamlines

Thursday, 25 January 2024

The XAFS satellite meeting will place emphasis on assessing the status of the operational PETRA III XAFS beamlines, P64/65, future developments for the P63 beamline and the status of planning for future PETRA IV beamlines. A number of showcases of recent work conducted by diverse user groups will give insight into the performance of the two XAFS beamlines at PETRA III. Additionally, the current planning status for XAFS beamlines at PETRA IV and a preview of the upcoming XAFS/XRD beamline, P63 will be presented. A separate workshop on Wednesday will focus on the automation of operando (XAFS-) experiments which is currently developed in the context of the ROCK-IT project.

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PROGRAMME

		Chair: M. Naumova
9:00	Introduction	
9:05	Status and Future of P65	E. Welter, M. Nentwich
9:25	Status and Future of P64	A. Kalinko
9:45	Status and Future of P63	W. Caliebe
10:05	Valence-to-Core XES spectroscopy of Ge complexes in aqueous fluids up to 400°C	A. Loges
10:25	Coffee	
10:45	From solid solutions to high-entropy materials: probing local structure in tungstates using X-ray absorption spectroscopy and reverse Monte Carlo simulations	A. Kuzmin
11:05	Peculiar bond length dependence and its impact on the band gap bowing in (Ag,Cu)(In,Ga)Se ₂ thin film alloys	H. Falk
11:25	X-ray spectroscopy in P64/P65 beamlines for chemical research	M. Nowakowski
11:45	Tracking and steering the dynamic structures of single atom catalysts for electrocatalytic CO ₂ reduction reaction using operando XAS.	J. Timoshenko
12:05	UV to mid-IR Pump-Probe Setup at P64 for Transient X-Ray Absorption Spectroscopy of Electronic and Structural Degrees of Freedom	T. Glier