

Workshop Soft X-ray Science at PETRA



LOCATION: FLASH Seminar Room, Bldg. 28c, DESY, Notkestraße 85, 22769 Hamburg

Moritz Hoesch outlook PO4 and soft x-rays at P-IV

29 November 2023, Wednesday		Ιl	30 November 2023, Thursday		
x-ray imaging of emergent textures			soft x-ray photoemission		
10:30 - 10:50	Registration with coffee		09:00 – 10:35 Session 4	opening 2nd part	
10:50 - 12:25 Session 1	opening remarks			Tillmann Buttersack "Sulfite chemistry at the solution-vapor interfa	
	Kai Bagschik "Status PETRA IV and Spatial Coherence in the Soft X-ray Range"			Eva Muchova "Non-local relaxation processes following X-ray irradi of solvated ions"	
	Lisa-Marie Kern "Controlling Magnetic Skyrmions: Generation, Motion and Dynamics"			Till Jahnke "Recent studies on molecules and small cluster using so rays from P04 and COLTRIMS"	
	Samuel Flewett "3D XRMS Simulations using Python"		10:35 - 11:00	Coffee break	
12:30 - 13:40	Lunch		11:00 – 12:25 Session 5	Dominik Stemer "Photoelectorn Circular Dichroism in Aqueous Solutions"	
13:40 – 15:10 Session 2	Felix Büttner "Coherent imaging with soft x-rays: An opportunity to image emergent states of matter in space and time"			Andreas Hans "X-ray-induced non-local mechanisms in clusters and liquids investigated by multi-electron-photon coincidence spectroscopy"	
	Simone Finizio "Current status and outlooks in soft X-ray scanning microscopy at the Swiss Light Source"			Joshua B Williams "Evidence of Bond Length Dependent Corehole Localization Following L-Edge Photoionization of 1,1-Dichloroethe	
	Nicolas Jaouen "Magnetic chirality in multilayers probed by soft x-ray (coherent) scattering"		12:25 – 13:45	Lunch and beamline visits	
15:10 - 15:40	Coffee break			Hans-Joachim Elmers "Observation of time-reversal symmetry breathe band structure of Altermagnets and Antiferromagnets"	
15:40 – 17:35 Session 3	Christian Schüssler-Langeheine "Probing materials' inhomogeneity with soft x-ray methods"		13:45 – 15:40 Session 6	Martin Beye "New Applications of RIXS"	
	Sebastian Wintz "X-ray imaging of spin-wave dynamics"			Hendrik Bentmann "Dichroism in soft X-ray photoemission: phase- sensitive contrast in topological quantum materials"	
	Christian Gutt "XPCS with soft X-rays - challenges and opportunities"			Hanns Christian Schewe "Conductivity and Reactivity of Liquid Met Alloys"	
	Cornelia Wunderer "Percival 2Megapixel soft X-ray Imager - Overview, Status, and Future"		15:40 - 16:00	Coffee break	
17:50 - 18:00	photo		Session 7	Simon Moser "The Huygens principle of ARPES"	
18:00 – 20:30	Posters and Dinner			Kai Rossnagel "Soft x-ray ARPES at P04 and beyond"	
				Antje Vollmer "BESSY II, BESSY II+-soft X-Ray beamlines for materia discovery"	

1 December 2023, Friday					
soft x-ray spectroscopy					
	Claudia Goy "X-ray Emission Spectroscopy of supercooled water droplets"				
09:00 – 10:25 Session 8	Sadia Bari "Functional biomolecular structures probed by soft X-ray action spectroscopy"				
	Simon Reinwardt "Soft X-Ray-induced Dimerization of Methane"				
10:25 - 10:45	Coffee break				
	Raimund Feifel "Core-valence double ionisation - local probe of global valence electronic structure?"				
10:45 – 12:30	José Crespo "Five decades of controversy about the Fe16+ oscillator- strength ratio finally resolved"				
Session 5	Michael Martins "Fragmentation and production of molecular ions by soft-X-rays"				
	closing remarks: Christian Schroer				