



## Workshop Soft X-ray Science at PETRA



LOCATION: CFEL Seminar Rooms 1–3, Bldg. 99, DESY, Notkestraße 85, 22769 Hamburg

17 Nov 2025, Monday		18 Nov 2025, Tuesday	
ions, gas, and liquids		magnetism electronic structure of solids	
9:00 – 9:30	<i>Registration with coffee</i>	09:15 – 10:25	<b>Keynote lecture: Jens Viehhaus</b> Prospects for Soft and Tender X-ray Science at BESSY/HZB
9:30 – 11:20 <b>Session 1</b> chair Stefan Schippers	welcome address - workshop chairs / Britta Redlich	<b>Felix Büttner</b> Discovery of imprinted background patterns that guide nano-magnetism	
	BL31 at PETRA IV - Moritz Hoesch	<b>Simon Marotzke</b> Soft XPCS at 4th generation synchrotron sources: Domain fluctuations in Ho	
	<i>short break</i> 20 min	10:25 – 10:50	<i>Coffee break</i>
	<b>Charlotte Ueterecht</b> Flying viruses: mass spectrometry meets X-rays	10:50 – 12:10	<b>Bastian Pfau</b> Imaging Thermal Motion of Nanoscale Skyrmions
	<b>Richard J. Squibb</b> Reactive intermediates in dicationic and higher charge states (Raimund Feifel group)	<b>Session 5</b> chair Felix Büttner	<b>Daniel Pérez Salina</b> Imaging nanoscale phase separation with soft X-rays
	<b>Dana Bloß</b> Site-Selective Low-Energy Electrons via X-ray Excitation from Aqueous Solutions		<b>Steffen Wittrock</b> Soft X-Rays as a Lens Revealing Reciprocal-Space Magnonics
12:00 – 13:15	<i>Lunch</i>		<b>Chafic Fawaz</b> Magnetic excitations in cuprates oxychlorides, probed by RIXS and ARPES
13:15 – 15:00 <b>Session 2</b> chair Florian Trinter	<b>Stefan Schippers</b> Probing Charged Small Quantum Systems with Soft X-Rays	12:10 – 13:45	<i>Lunch and beamline visits</i>
	<b>Zhong Yin</b> Revealing Hidden States in Liquids through RIXS		<b>Kai Rossnagel</b> X-rays for quantum technology
	<b>Oksana Travnikova</b> Tender X-ray in – soft X-ray out: A journey through SF6 decay to neutral sulfur		<b>Max Ünzelmann</b> Imaging Twisted Electrons by Angle-Resolved Photoemission Spectroscopy
	<b>Emilia Heikura</b> Photoelectron circular dichroism as a function of a distance from a stereocenter		<b>Jan Minar</b> Quantum Materials and Magnetic Phenomena Studied by Spin-Resolved ARPES: Theoretical perspectives
	<b>Anastasia Andreeva</b> Ultrafast dissociation dynamics of the HCO <sup>+</sup> and COH <sup>+</sup> isomers		<b>Martina Müller</b> tba
15:00 – 15:20	<i>Coffee break</i>	15:15 – 15:35	<i>Coffee break</i>
15:15 – 17:10 <b>Session 3</b> chair Sadia Bari	<b>Chintan Shah</b> High-Precision Laboratory X-ray Astrophysics Using EBIT and Synchrotron		<b>Vladimir Strokov</b> k-resolved electronic structure of buried heterostructures with soft X-ray ARPES
	<b>Sebastian Trippel</b> Ionization dynamics of indole and indole-water		<b>Hans-Joachim Elmers</b> Using circular dichroism in angle-resolved photoemiss. to study magnetic order
	<b>Florian Trinter</b> Photoemission from Aqueous Solutions using EASI at P04		<b>Anders Mathiesen</b> Peierls-induced topological Weyl semimetal in PtBi <sub>2</sub>
	<b>Zeynep Özturk</b> Turkish X-ray Photoel. Spec. (TXPES) Beamline: Capabilities and Future Directions		closing remarks - <b>Christian Schroer</b>
	<b>Poster flash</b>		
17:10 – 17:20	<i>Photo</i>		
17:30 – 19:00	<i>Posters</i>		
18:30 – 20:30	<i>Dinner</i>		