



Workshop Soft X-ray Science at PETRA



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

17 Nov 2025, Monday	
ions, gas, and liquids	
9:00 – 9:30	Registration with coffee
9:30 – 11:20 Session 1 chair Stefan Schippers	welcome address - workshop chairs / Britta Redlich
	BL31 at PETRA IV - Moritz Hoesch
	short break 20 min
	Charlotte Ueterecht Flying viruses: mass spectrometry meets X-rays
	Richard J. Squibb Reactive intermediates in dicationic and higher charge states (Raimund Feifel group)
	Dana Bloß Site-Selective Low-Energy Electrons via X-ray Excitation from Aqueous Solutions
12:00 – 13:15	Lunch
13:15 – 15:00 Session 2 chair Florian Trinter	Stefan Schippers Probing Charged Small Quantum Systems with Soft X-Rays
	Zhong Yin Revealing Hidden States in Liquids through RIXS
	Oksana Travnikova Tender X-ray in – soft X-ray out: A journey through SF ₆ decay to neutral sulfur
	Emilia Heikura Photoelectron circular dichroism as a function of a distance from a stereocenter
	Anastasia Andreeva Ultrafast dissociation dynamics of the HCO ⁺ and COH ⁺ isomers
15:00 – 15:20	Coffee break
15:15 – 17:10 Session 3 chair Sadia Bari	Chintan Shah High-Precision Laboratory X-ray Astrophysics Using EBIT and Synchrotron
	Sebastian Trippel Ionization dynamics of indole and indole-water
	Florian Trinter Photoemission from Aqueous Solutions using EASI at P04
	Zeynep Öztürk Turkish X-ray Photoel. Spec. (TXPES) Beamline: Capabilities and Future Directions
	Poster flash
17:10 – 17:20	Photo
17:30 – 19:00	Posters
18:30 – 20:30	Dinner

18 Nov 2025, Tuesday	
magnetism electronic structure of solids	
09:15 – 10:25 Session 4 chair Bastian Pfau	Keynote lecture: Jens Viehhaus Prospects for Soft and Tender X-ray Science at BESSY/HZB
	Felix Büttner Discovery of imprinted background patterns that guide nano-magnetism
	Simon Marotzke Soft XPCS at 4th generation synchrotron sources: Domain fluctuations in Ho
10:25 – 10:50	Coffee break
10:50 – 12:10 Session 5 chair Felix Büttner	Bastian Pfau Imaging Thermal Motion of Nanoscale Skyrmions
	Daniel Pérez Salina Imaging nanoscale phase separation with soft X-rays
	Steffen Wittrock Soft X-Rays as a Lens Revealing Reciprocal-Space Magnonics
	Chafic Fawaz Magnetic excitations in cuprates oxychlorides, probed by RIXS and ARPES
12:10 – 13:45	Lunch and beamline visits
13:45 – 15:15 Session 6	Kai Rossnagel X-rays for quantum technology
	Max Ünzelmann Imaging Twisted Electrons by Angle-Resolved Photoemission Spectroscopy
	Jan Mlinar Quantum Materials and Magnetic Phenomena Studied by Spin-Resolved ARPES: Theoretical perspectives
	Martina Müller tba
15:15 – 15:35	Coffee break
15:35 – 16:45 Session 7	Vladimir Stokov k-resolved electronic structure of buried heterostructures with soft X-ray ARPES
	Hans-Joachim Elmers Using circular dichroism in angle-resolved photoemiss. to study magnetic order
	Anders Matthisen Peierls-induced topological Weyl semimetal in PtBi ₂
	closing remarks - Christian Schroer