



Workshop "Soft X-ray Science at Petra"
LOCATION: DESY Hamburg Flash Seminar Room bldg. 28c
 Notkestrasse 85, 22607 Hamburg



25 Sept 2019, Wednesday	
09:30 – 10:20	<i>Registration with coffee</i>
10:20 - 12:10 Session 1 (chair C. Schroer)	<p>H-C Wille: welcome and introduction</p> <p>Jan Lüning: keynote lecture "Soft X-ray Science at BESSY II: Current developments and future plans"</p> <p>Christian Schroer Petra-IV</p> <p>Timo Kuschel "Platin magnetic dead layers in PtMnSb thin films and Pt/PtMnSb bilayers"</p>
12:10 – 12:20	<i>Workshop photo</i>
12:20 – 13:40	<i>Lunch</i>
13:40 – 15:20 Session 2 (chair S. Schippers)	<p>Moritz Hoesch P04 developments</p> <p>Robert Frömter "Soft X-ray holographic microscopy at 10 nm spatial resolution"</p> <p>Markus Tischer undulator developments at Petra</p> <p>Simon Dörner "Using advanced light sources to investigate structure and relaxation mechanisms of gas-phase biomolecular ions"</p>
15:20 – 16:00	<i>Coffee break</i>
16:00 – 17:55 Session 3 (chair S. Bari)	<p>José Crespo López-Urrutia "Soft x-rays on radiation-hard ions accurately benchmarking electron-hole theory"</p> <p>Till Jahnke "The photoeffect beyond the dipole approximation"</p> <p>Charlotte Utrecht "Hitting proteins with a sledgehammer – mass spectrometry meets X-rays fragmentation of proteins"</p> <p>Sebastian Trippel "Photophysics investigation of hydrogen-bonded clusters"</p>
17:55 – 20:30	<i>Posters and Dinner</i>

26 Sept 2019, Thursday	
09:00 – 10:30 Session 4 (chair M. Hoesch)	<p>Ivan Baev "Ultra-Small and Ultra-Cold: XMCD at P04"</p> <p>Hendrik Bentmann "Soft X-ray photoelectron spectroscopy of topological materials" presented by Philipp Kagerer</p> <p>Martin Beye "Imaging micrometer length scales with RIXS on complex oxides"</p>
10:30 – 11:00	<i>Coffee break</i>
11:00 – 12:20 Session 5 (chair K. Bagschik)	<p>Bastian Pfau "Controlling Magnetic Skyrmions"</p> <p>Lars Lühl "Scanning Transmission X-Ray Microscopy with Large Solid Angle of Detection for X-ray Fluorescence Imaging in the Soft and Tender Energy Range"</p> <p>Simon Reinwardt "XUV-absorption of aligned molecular ions"</p>
12:20 – 13:40	<i>Lunch</i>
13:40 – 15:30 Session 6 (chair M. Martins)	<p>Stefan Schippers "The Photon-Ion Merged-Beams Technique at PIPE: A Unique Approach for Studying Photo Processes in Small Quantum Systems"</p> <p>Olle Björneholm "Phenomena in liquids at different time scales probed by electron spectroscopy"</p> <p>André Knie "Photon, ion and electron spectroscopy with soft x-ray excitation"</p> <p>Maurice Leutenegger "Laboratory astrophysics benchmark measurements at synchrotron facilities"</p>
15:30 – 15:50	<i>Coffee break</i>
15:50 – 16:50 Session 7 (chair F. Trinter)	<p>Melanie Schnell "Towards connecting PAH and fullerene astrochemistry: Revealing structural changes of PAHs in different charge and dehydrogenation states"</p> <p>Bernd Winter "Photoelectron Spectroscopy from Liquid Microjets: New Developments and Opportunities"</p>
16:50 – 17:00	<i>Closing remarks</i>

Poster Session Wed. 25 Sept 2019 18 - 20:30

Title	Primary Author
PLEIADES - A Soft X-ray Beamline for Dilute Matter Studies at SOLEIL	John Bozek
A community approach to the computation of atomic structures, processes and cascades	Stephan Fritsche
Photoionization of low-charged silicon ions	Ticia Buhr
New resonances in multiple inner-shell photodetachment of carbon anions	Alexander Perry-Saßmannshausen
PolarX-EBIT: A versatile tool for high-resolution resonant photoexcitation spectroscopy and metrology with highly charged ions	Sven Bernitt
Soft X-Ray Photoelectron Momentum Microscopy with Large k-Field of View	Sergey Babenkov
Scanning Transmission X-ray Microscopy with Fluorescence Detection at P04	Andreas Haidl
Sub-micrometer angle-, spin-, and polarization-dependent photoelectron spectroscopy in the tender X-ray regime	Matthias Kalläne
X-Ray Absorption Spectroscopy of the Hydronium Ion, Protonated Water Clusters and Solvated Ions	Julius Schwarz
PERCIVAL a soft X-ray imager	Jonathan Correa
Event Driven Readout Detectors: Timepix3/4	Jonathan Correa
Comprehensive study on electronic structure and magnetic interaction in double-perovskite $\text{LaCo}_{1-x}\text{Ni}_x\text{O}_3$ samples	Meng-jie Huang
The ultrafast dynamics of polycyclic aromatic hydrocarbons upon ionization using XUV radiation at 30.3 nm	Pragya Chopra
Fluorescence polarimetry at PIPE	Carolin Honisch
Near Edge X-Ray Absorption Fine Structure (NEXAFS) Spectroscopy of Phenanthrene in different charge and dehydrogenation states	Diksha Garg
Probing Chemical Systems with State-of-the-Art X-ray Optics	Jens Rehanek
The development of a soft X-ray plenoptic microscope	Elena Longo
Covalent modification of graphene by Neutral red organic dye	Dmitrii V. Potorochin
FEM-simulations for a high-heat-load mirror	Jörn Seltmann
The New Intermediate Focus Setup at P04	Frank Scholz
Two-dimensional multi-parameter spatial coherence analysis at P04	Kai Bagschik
Photoemission from Liquid Jets: New Developments	Sebastian Malerz
The Helmholtz-SESAME soft x-ray beamline HESEB	Annick Froideval/Frank Lehner
Comparative XAS and RIXS study of Ca_2RuO_4 and $\text{Ca}_3\text{Ru}_2\text{O}_7$	Karin von Arx
Ultrafast Demagnetization by Extreme Ultraviolet Light	André Philippi-Kobs