

XTOP 2026 - Poster Sessions

Poster Session 1: Tuesday, 22.09. (17:00-18:30)

Presenter	Title
Angelica Cecilia	Hierarchical X-ray Imaging P23.2 HIKA Beamline at DESY, PETRA III
Nischal Dhungana	Characterisation of Sub-Nanometric Line Edge Roughness Using SAXS
Marek Duchañ	Structural Signatures of Spin Reorientation in Altermagnetic MnTe
Fabian Gasser	Chirality Determination in Thin Films by Resonant Grazing-Incidence X-ray Diffraction
Mark Goorsky	Ion Implantation Strain Modelling of 4H-SiC Using X-ray Diffraction
Jörg Grenzer	Design of a Single Reflection Analyzer-Polarimeter for Light-by-Light Scattering Experiments at the HiBEF-HED Station at the European XFEL
Warre Heylen	Non-Destructive Structural Investigation of Multilayer Nanostructures with Uncertainty Analysis at 92 eV Using a Tabletop High Harmonic Generation Source
Warre Heylen	Investigation of Sensitivity of Tabletop HHG 92eV EUV Scatterometry for Laterally Etched SiGe Multilayer Grating Structures
Vladimir Kaganer	Dislocation Correlations in GaN Epitaxial Films Revealed by XRD and EBSD
Sebastian Kalbfleisch	The Nano-Diffraction Instrument of the NanoMAX Beamline at MAX IV
Azat Khadiev	New Experimental Possibilities at the P23 In Situ X-ray Diffraction and Imaging Beamline at PETRA III
Stefan Kowarik	ORSO – the Open Reflectometry Standards Organisation
Adam Kubec	Utility Fresnel Zone Plates: Blazed, Hybrid, Spiral, and Aberrated Designs Optimized for Performance and Use-Case-Specific X-ray Optics
Christian Neemann	3D Laue Microdiffraction Investigation of Deformation and Defect Evolution in Bicrystalline Copper Micropillars During Cyclic Loading
Petr Pazourek	Temperature-Dependent X-ray Diffraction of Ferroelectric Topological Insulators
Mario Prescher	Non-Destructive Laboratory Micro X-ray Computed Tomography of Processed AlGaIn/GaN RF Power Amplifier Chips
Nico Scheidegger	GelatoX – a New in-House Setup for Propagation-Based Phase-Contrast Nano-CT of Biomedical Samples
Johanna Seidel	In Situ X-ray Diffraction During Ice Formation on Alkali Feldspar
Rolf Simon	PB32/HIKA Beamline at PETRA IV for Hierarchical Imaging, Laminography, and Serial CT with High Coherence and Dose-Efficiency
Mira Viljanen	Multiscale and Modal Characterisation of Soft Materials at ForMAX
Luisa Wartner	Increasing Sinter Stability of Pd/(CeO ₂)/alpha-Al ₂ O ₃ Model Catalysts Under Methane Oxidation
Aleksandra Wierzbicka	Influence of Au Catalyst Size on the Structural Properties of CdO Nanowires Grown by Molecular Beam Epitaxy

Poster Session 2: Thursday, 24.09. (17:00-18:30)

Presenter	Title
Benjamin Apeleo Zubiri	Multiscale Characterization of Hierarchical Particle–pore Systems Using Correlative X-ray and Electron Tomography
Maik Becker	CNN-Based Mitigation of Zernike Phase-Contrast Artifacts in High-Resolution XRM and NanoCT
Huaiyu Chen	High-Resolution X-ray Ptychographic Computed Tomography of Brain Tissue Samples
Carsten Detlefs	Oblique Diffraction Geometry for the Observation of Several Non-Coplanar Bragg Reflections Under Identical Illumination
Martin Fisk	Precipitation-Induced Strain Field in Ni-Based Superalloys
Edwin Fohntung	On X-ray Orbital Angular Momentum–Dependent Coherence-Based Imaging
Luca Franzoni	X-ray Tomography of 3D Printed Hydrogel Based Tissue Scaffolds
Patrice Gergaud	In Situ μ Laue and Dark-Field X-ray Microscopy Investigation of Strain Relaxation Mechanisms in Patterned InGaN Pseudo-Substrates for Red Micro-LED Applications
Jenny Hein	Evolution and Functional Morphology of Hip Joint Systems in Beetles
Koei Kadoi	Non-Reconstructive Prior- β Grain Estimation by Synchrotron X-ray Diffraction Spot Distribution Analysis in Ti-6Al-4V with TiC
Nathan Leubner	Probing Ferroelectric Switching in BaMgF ₄ via Quasi In Situ Dark-Field X-ray Microscopy
Cristina Lupașcu-Vasilița	From Pixels to Bases: Integrating Synchrotron X-ray Imaging and DNA Sequencing of Insects
Wenjie Mei	A Standardized Workflow for Cross-Beamline Data Harmonization and Analysis of Cement Hydration in X-ray Tomography
Cristian Mocuta	Artificial Laminar Oxide Multiferroic Magnetoelectric Thin Film Structures – Elaboration and Characterization
Reihaneh Pashminehazar	In Situ Synchrotron X-ray Micro-Tomography and Machine-Learning-Assisted Segmentation of Low-Density Hydrocarbon Phases in Powdered Catalysts
Ilhem Nadia Rabehi	Crystal Defect Dynamics at the Solid-Liquid Interface in Silicon – Investigation by X-ray Topography and Rocking Curve Imaging.
Angel Rodriguez Fernandez	I13-1 Coherence: The Multiscale, Multimodal, Ptycho-Tomographic End Station at DLS.
Veronika Schon	Contrast Engineering in NanoCT of Porous Silica Through Tailored Intrusion Media
Steffen Staeck	Improving Spatial Resolution for Dark-Field X-ray Microscopy
Felix Wittwer	X-ray Strain and Stress Tensor Tomography
Felix Wittwer	Protein Denaturation in Heated Egg Yolk Studied with In Situ X-ray Holotomography
André Wählich	Reference-Free Nano-XRF Analysis of TaOx Memristive Devices
Maria-Iulia Zai	Computational Methods Applied in Materials Studies