XTOP 2016 Detailed Programme

Sunday 4th September

13:30		
13:50	School opening	
14:10	**14:00 Christian Mocuta**: Scanning methods with micro- and nano-focused hard X-ray beams	**T1**
14:30		
14:50		
15:10	*Break*	
15:30		
15:50	15:40 **José Baruchel**: X-ray imaging methods	**T2**
16:10		
16:30		
16:50		
17:10	*Break*	
17:30	17:10 **Cinzia Giannini:** Laboratory x-ray diffraction and scattering experiments	**T3**
17:50		
18:10		
18:30	*Break*	
18:50		
19:10	19:10 – 22:30 **Dinner**	
19:30		

Monday 5th September

08:30		
08:50	8:30 **Anna Diaz:** X-ray imaging with phase-sensitive methods	**T4**
09:10		
09:30		
09:50	*Break*	
10:10	10:10 **Stefan Carlson**: Tunable photon energy methods	**T5**
10:30		
10:50		
11:10		
11:30	*Break*	
11:50	11:40 **Swerker Werin**: Recent Synchrotron Radiation Sources, and the MAX IV example	**T6**
12:10		
12:30		
12:50		
13:10	***Lunch***	
13:30		
13:50		
14:10		
14:30	14:30 Conference opening	
14:50	15:00 **Jozef Kečkés:** Microstructure and Functionality of Materials Interfaces	**I1**
15:10		
15:30		
15:50	15:40 Dorian Ziss: XRD vs. Photoluminescence A new class of devices to calibrate deformation potentials	C1
16:10	16:00 Joel Eymery: X-ray nanobeams for nitride wires	C2
16:30	16:20 Vladimir Kaganer**:** X-ray diffraction study of strain relaxation in coalesced GaN nanowires	C3
16:50	16:40 Martin Schmidbauer: Scattering from Ferroelectric Domains in Strained (K, Na)NbO_3 Epitaxial Films on (110) $TbScO_3$ Substrate	C4
17:10	*Break*	
17:30	17:20 **Julian Moosman**: X-ray phase-contrast in vivo tomography	**I2**
17:50		
18:10	18:00 Yuri Chushkin: Status and perspectives of synchrotron-based Coherent X-ray Diffraction Imaging	C5
18:30	18:20 Arman Davtyan: Structural investigations of single heterostructure nanowires	C6
18:50		
19:10		
19:30	**19:10 – 22:10 Poster Session A**	
19:50		

Thursday 8th September

08:30		
08:50	8:30 **Tim Salditt:** X-ray nano-focusing for coherent imaging: meet your probe	**I11**
09:10		
09:30	9:10 Q. Zhong: X-ray waveguide arrays: tailored near-fields by multi-beam interference	C34
09:50	9:30 Jonas Vogel: Single nanowire X-ray diffraction analysis in ensemble measurements	C35
10:10	9:50 Pawel Korecki: Observation of sagittal X-ray diffraction of surface acoustic waves in Bragg geometryDefect-assisted x-ray microscopy…	C36
10:30	10:10 Pablo Villanueva-Perez: Single-shot-multiprojection setup for ultrafast and ultraintense imaging	C37
10:50	*Break*	
11:10	10:50 Angel Rodriguez-Fernandez: Experimental assessment of the spatial transverse displacement of x-rays by perfect crystals in view…	C38
11:30	11:10 W. Jark: X-ray beam splitting by use of reflection gratings for photon energies of 4 – 12.4 keV	C39
11:50	11:30 Rajmund Mokso: Dual detector single shot fast quantitative phase micro-tomography	C40
12:10	11:50 Franceso De Carlo: X-ray Imaging at the Advanced Photon Source: Opportunities with the APS Upgrade	C41
12:30	12:10 **Conference closing**	
12:50		
	Lunch	

Tuesday 6th September

08:30		
08:50	8:30 **Paolo Scardi:** Whole Powder Pattern Modelling of nanocrystalline and plastically deformed materials ("Hanavalt Award Lecture")	**I3**
09:10		
09:30	9:10 Andreas Danilewsky: Towards Real Time X-Ray Imaging of Cracks and Fracture in Silicon	C7
09:50	9:30 Brian Tanner: Non-destructive X-ray diffraction measurement of warpage in silicon die embedded in integrated circuit packages	C8
10:10	9:50 Daniel Haenschke: Determinability of Dislocation Paths by 3D Diffraction Laminographic Imaging	C9
10:30	10:10 Thu Nhi Trann Thi: Combining qualitative and quantitative diffraction topography at the ESRF to characterise PV silicon and diamond cryst	C10
10:50	*Break*	
11:10	10:50 **Igor Zlotnikov**: Mineralized tissue formation described by synchrotron-based X-ray analysis and imaging techniques	**I4**
11:30		
11:50	11:30 Philip Cook: Dark-field hard x-ray microscopy imaging for the study of biominerals	C11
12:10	11:50 Chiara Gramaccioni: Combined use of X-Ray Fluorescence Microscopy, Phase Contrast Imaging and Nanotomography …	C12
12:30	12:10 Stanislav Hrivňák: Towards dose efficient in-vivo X -ray microscopy of biological systems using Bragg Magnifier Microscope	C13
12:50		
13:10	*Lunch*	
13:30		
13:50	14:00 **Andreas Stierle**: Operando High Energy Surface Sensitive X-ray Diffraction	**I5**
14:10		
14:30	14:40 Jesper Wallentin: In operando X-ray characterization of nanowire devices	C14
14:50	15:00 Philipp Schroth: Growing self-catalysed GaAs nanowires probed by time-resolved in-situ high-resolution X-ray diffraction	C15
15:10	15:20 Rafael Kluender: Synchrotron X-ray Bragg diffraction imaging techniques to characterise ice distortion under loading	C16
15:30	15:40 Paul Diemoz: High-energy low-dose mammography using edge illumination X-ray phase-contrast imaging	C17
15:50	*Break*	
16:10	16:20 **Jan Philipp Hofmann:** Synchrotron-based X-ray Structural Analysis of Functional Materials Towards Catalytic Structure-Activity Relation…	**I6**
16:30		
16:50	17:00 Jakub Drnec: Transmission Surface Diffraction: a new tool for in-situ and operando surface science	C18
17:10	17:20 Sara Fernandez: Intermixing in single Ge-Si core-shell nanowires: a coherent X-ray imaging study	C19
17:30	*Break*	
17:50		
18:10	17:50 Industrial Clips	
18:30		
18:50		
19:10		
19:30	**19:10 – 22:10 Poster Session B**	
19:50		

Wednesday 7th September

08:30		
08:50	8:30 **Semjon Gorfman:** Following macroscopic, mesoscopic and atomic motions in multi-domain crystals under alternating electric field	**I7**
09:10		
09:30	9:10 Dominik Kriegner: Towards Real Time X-Ray Imaging of Cracks and Fracture in Silicon	C20
09:50	9:30 Thomas W. Cornelius: In situ nano-mechanical tests in the light of synchrotron X-ray diffraction	C21
10:10	9:50 Simone Vadilonga: Observation of sagittal X-ray diffraction of surface acoustic waves in Bragg geometry	C22
10:30	10:10 Christian Schlepuetz: Sustained kHz Frame Rates for Ultrafast Tomography - Introducing GigaFRoST	C23
10:50	*Break*	
11:10	10:50 **Virginie Chamard**: Biominerals in the light of Bragg coherent x-ray diffraction imaging	**I8**
11:30		
11:50	11:30 Gibril Kallon: New Laboratory implementations of edge illumination x-ray phase contrast imaging	C24
12:10	11:50 Tomáš Faragó : Syris: A Flexible and Efficient Framework for Simulating X-ray Imaging Experiments	C25
12:30	12:10 Elvia Chavez Panduro: In-situ X-ray tomography study of CO2 - induced healing in fractured cement	C26
12:50		
13:10	*Lunch*	
13:30		
13:50	14:00 **Marvin Zoellner**: From global and local Ge integration approaches on Si(001): Novel insights by advanced synchrotron-based scanning XRD	**I9**
14:10		
14:30	14:40 Davide Altamura: Table-top SAXS/WAXS (Scanning) microscopy probes hydroxyapatite concentration gradients …	C27
14:50	15:00 Jan Ilavský: Extended range Ultra Small-angle X-ray, Small-angle, and Wide-angle scattering for advanced alloy development	C28
15:10	15:20 Mojmír Meduňa: Nanodiffraction of Highly Mismatched Compositionally Graded SiGe/Si Microcrystals	C29
15:30	15:40 Lukáš Horák: X-ray diffraction study of the (magneto-)structural transition in FeRh thin layers	C30
15:50	*Break*	
16:10	16:20 **Federico Boscherini:** High resolution X-ray spectroscopy of electronic and atomic structure of TiO_2 nanostructures and charge transfer …	**I10**
16:30		
16:50	17:00 Sérgio Morelhao: Dynamic X-ray diffraction in amino acid crystals: a step towards improving structural resolution of biological molecules .	C31
17:10	17:20 Roland Resel: Reversible discrete monolayers of C8-BTBT-C8 molecules on silicon oxide surfaces as a result of thermodynamic equilibrium	C32
17:30	*Break*	
17:50	17:50 Yi Zhang: Uncovering three-dimensional gradients in fibrillar orientation in an impact-resistant biological armour	C33
18:10	18:10 Uli Pietsch: ESUO information	
18:30		
18:50		
19:10		
19:30	**19:30 – 22:30 Conference dinner**	
19:50		