

XOPT2018 Simple oral program
Room 313+314

Tue, 24th	Category	Chair	Speaker	Presentation title
8:00	Registration start			
8:55	Opening		TBD	XOPT Opening Remarks
9:00	XFEL facilities		Diling Zhu	Status and Developments in Crystal Optics at the Linac Coherent Light Source
9:15			Jangwoo Kim	Hard X-ray focusing optics and applications at the PAL-XFEL
9:30			Taito Osaka	Recent Progress of SACLA
9:45				
10:00				
10:15				
10:30	Break			
10:45				
11:00	Optics I (refractive)		Anatoly Snigirev	X-ray refractive beam-conditioning and beam-shaping optics for coherent microscopy applications
11:15			Thomas Roth	2D focusing kinoform lenses produced by 3D direct printing
11:30			Lucia Alianelli	Characterisation of refractive focusing lenses
11:45				
12:00	Lunch			
12:15				
12:30				
12:45				
13:00				
13:15				
13:30	Imaging I		Oleg G. Shpyrko	Coherent X-ray Diffractive Imaging of Topological Defects in Operando Energy Storage Materials
13:45			Hugh Simons	Multi-Scale 3D Imaging of Strains and Structures with Dark-Field X-Ray Microscopy
14:00			Irina Snigireva	Hard X-ray in-situ full-field microscopy for material science applications
14:15			Anders Filsoe Pedersen	Lensless imaging with a lens
14:30				
14:45				
15:00	Break			
15:15				
15:30	Optics II (high heat-load/high brilliance)		Lahsen Assoufid	Development of a hard X-ray non-invasive wavefront sensor using a single-grating interferometer combined with a thin diamond single-crystal beam splitter
15:45			Corey Hardin	Metrology of Resistive Element Adjustable Length (REAL) cooling for sub-nanometer figure preservation in high heat load FEL optics
16:00			Yiping Feng	Accuracy of Estimating the X-ray FEL Pulse Energy from Electron Beam Energy Loss Measurement
16:15			Yuri Shvyd'ko	Diamond Channel-Cut Crystals as High-Heat-Load Beam-Multiplexing High-Resolution X-ray Monochromators
16:30			Ichiro Inoue	Reflection self-seeding at SACLA
16:45	Source	Julius Hallstedt	X-ray Source Technology for High Throughput in the Home-Laboratory and Tomography Applications	
17:00				
17:15	Break / Move			
19:00	XOPT Banquet			
-21:00?				

Wed, 25th	Category	Chair	Speaker	Presentation title
8:00	Registration start			
9:00				
9:15				
9:30				
9:45				
10:00				
10:15				
10:30				Plenary session
10:45				※Room 501+502
11:00				
11:15				
11:30				
11:45				
12:00	Lunch			
12:10				
12:30				
12:45				
13:00				
13:15				
13:30	Joint session (ALPS, HEDS, XOPT) ※Room 303		Victor Malka	Manipulating Electrons with Intense Laser Pulses
13:45			Junghun Shin	Development and Commissioning of a 20 fs, 4 PW Laser
14:00			Robert Krarup Feidenhans'l	European XFEL - New Opportunities for X-ray Science
14:15				
14:30				
14:45				
15:00	Break			
15:15				
15:30	Imaging II		Manuel Guizar-Sicairos	Ptychographic X-ray computed tomography - An outlook for diffraction-limited sources
15:45			Peter Cloetens	X-ray nano-imaging and nano-analysis using multilayer coated Kirkpatrick-Baez optics
16:00	Optics III (reflective)		Jumpei Yamada	Compact and large-magnification full-field X-ray microscope using concave-convex imaging mirrors
16:15			Deming Shu	Design of 160-mm and 300-mm Long Elliptically Bent Hard X-ray Mirrors with Precision Compact Lamina Flexure Bending Mechanism
16:30			Gung-Chian Yin	The Commission of Montel Optics at Taiwan Photon Source
16:45				
17:00				
17:15	Break / Move			
17:30				
17:45				
18:00	OPIC Reception			
-20:00				

Thu, 26th	Category	Chair	Speaker	Presentation title
8:00	Registration start			
9:00	Imaging III		Wataru Yashiro	Recent Advance and Future Potential in X-ray Imaging with Gratings
9:15			Karol Vegso	The interaction of infrared laser radiation with polypropylene studied by pink-beam 4D X-ray Phase CT
9:30			Hirokatsu Yumoto	High-fluence x-ray focusing system for high-resolution coherent diffraction imaging at SACLA
9:45			Takashi Kimura	Radiation-Damage-Free Imaging of Solid Electrolytes for Lithium-Ion Batteries by Single-Shot Coherent Diffraction Imaging
10:00				
10:15				
10:30	Poster session			
10:45				
11:00				
11:15				
11:30				
11:45				
12:00	Lunch			
12:15				
12:30				
12:45				
13:00				
13:15				
13:30	Optics IV (ML/diffractive)		Raymond P. Conley	Multilayer Laue Lens Fabrication and Measurement Results
13:45			Werner Jark	A tender X-ray PGM for tuning the photon energy interval 0.6 - 6 keV with a single plane grating
14:00			Arnaud COTEL	Soft X-Ray and EUV diffraction gratings design for space and synchrotron applications
14:15			Talgat Mamyrbayev	Fabrication of novel gratings to improve spatial resolution in X-ray phase imaging
14:30			Joerg Wiesmann	Multilayer Optics and Scatterless Apertures for High-Brilliance X-ray Sources
14:45				
15:00	Break			
15:15				
15:30	Methods		Edward Steven Jimenez	Machine and Deep Learning Exploration for Spectral X-ray Computed Tomography Materials Classification Applications
15:45	Optics V (reflective/nonlinear)		Hidekazu Mimura	X-ray Ring-Focusing Mirror
16:00			Aviad Schori	Ghost Imaging with Paired X-ray Photons
16:15			Denis Borodin	Evidence for collective nonlinear interactions in x ray into ultraviolet parametric down conversion
16:30	Closing		Kazuto Yamauchi	XOPT Closing Remarks

XOPT2018 poster program

1	Feasibility study of phase-contrast X-ray micro-CT using diffraction enhanced imaging	Akio Yoneyama	Saga Light Source / Hitachi Ltd.
2	X-ray stroboscopic phase tomography with Talbot interferometer and white synchrotron radiation	Yanlin Wu	Tohoku University
3	Development of X-ray phase laminography microscope based on grating interferometry	Hidekazu Takano	Tohoku University
4	Imaging thermoresponsive gold nanoparticles in solution by X-ray laser diffraction	Akihiro Suzuki	Hokkaido University
5	Parametric-Down Conversion of X-rays into the Optical Regime	Aviad Schori	Bar-Ilan University
6	Study of silicon microstructures by x-ray high resolution diffractometry based on refractive optics	Petr Alexandrovich Ershov	Immanuel Kant Baltic Federal University
7	SwissFEL photon diagnostics for soft, tender and hard X-rays	Christopher Arrell	Paul Scherrer Institut
8	Synchrotron radiation-based anomalous dispersion X-ray powder diffraction studies of Pb/Bi distributions in ferroelectric oxides	Kun Lin	University of Science and Technology Beijing
9	X-ray Optics for High-speed X-ray Reflectivity and Diffraction Measurements of Surfaces, Interfaces and Thin Films	Wolfgang Voegeli	Tokyo Gakugei University
10	Theory and fabrication feasibility of ultra short focal length refractive lenses for hard X-Rays	Lucia Alianelli	Diamond Light Source Ltd.
11	X-ray refractive parabolic axicon lens	Dmitrii Zverev	Immanuel Kant Baltic Federal University
12	Phase-contrast imaging using X-ray nanointerferometer based on Si refractive bilenses	Dmitrii Zverev	Immanuel Kant Baltic Federal University
13	Beryllium X-ray optical properties: from refractive lens to diffuser	Ivan Lyatun	Immanuel Kant Baltic Federal University
14	2D polymer refractive microlenses fabricated by additive technology.	Aleksandr Barannikov	Immanuel Kant Baltic Federal University
15	Mini-Trasfocator for X-ray Microscopy	Aleksandr Barannikov	Immanuel Kant Baltic Federal University
16	High-aspect-ratio X-ray optical devices fabricated from Pt-based metallic glass	Wataru Yashiro	Tohoku University
17	Two-dimensional VLS gratings from Berlin (NOB GmbH)	Heike Loechel	Neutron Optics Berlin
18	Development of Channel-cut Crystal X-ray Monochromators for Low-emittance X-ray Sources Using High-precision Plasma Etching	Yuki Morioka	Osaka University
19	Development of Fabrication Method of Speckle-free Channel-cut Crystal X-ray Monochromators with Sub-mm Channel Width	Takashi Hirano	Osaka University
20	Interface engineering of periodic multilayer EUV and x-ray mirrors	JiaoLing Zhao	Chinese Academy of Sciences
21	The Commission of Mirror Holder for X-ray Nanoprobe	Bo-Yi Chen	National Synchrotron Radiation Research Center
22	New figuring model based on surface slope profiles for X-ray optics	Lin Zhou	National University of Defense Technology
23	Measurement of a spherical mirror with sub-50 nm repeatability by three-dimensional nanoprofiler using normal vector tracing method	Yui Toyoshi	Osaka University
24	Development of nanofocusing system for X-ray free electron Laser (Study of nanobeam characterization)	Takato Inoue	Osaka University
25	Development of high-resolution X-ray imaging optical system using multilayer imaging mirrors	Kentaro Hata	Osaka University
26	Development of adaptive X-ray focusing system based on a combination of a piezoelectric bimorph mirror and a mechanical mirror bender	Hiroyuki Yamaguchi	Osaka University
27	Thermal Analysis for Ion Beam Processing of the Unimorph Deformable Mirror	Zhanbin Fan	National University of Defense Technology / Hunan Key Laboratory of Ultra-precision Machining Technology
28	Figure correction of ellipsoidal x-ray mirrors by ion beam sputtering deposition	Shunya Yokomae	The University of Tokyo
29	Development of a high precision processing for master mandrel of soft X-ray ellipsoidal mirror	Yusuke Matsuzawa	The University of Tokyo
30	Imaging Quality of HHG Achromatic Microscope Using Wolter Mirrors	Satoru Egawa	The University of Tokyo
31	Current X-ray mirrors and metrology of JTEC Corporation	Hiroki Nakamori	JTEC Corporation / Osaka University