XOPT2025 Program

Date April 22(Tue)-April 24(Thu), 2025

Venue Room 313+314

Day1: April 22 (Tue)

JST		Session	Cair	Speaker	Affiliation	Title
9:40	9:45	Opening				
9:45	10:00	Facility	Takahiro Sato	Aymeric Robert	MAX IV Laboratory	On the benefits of small emittance storage rings
10:00	10:15			Makina Yabashi	RIKEN SPring-8 Center	An Overview of the SPring-8-II Upgrade Project
10:15	10:45			**(Invited) Jiawei Yan**	European XFEL	Generation of high-power attosecond hard X-ray free-electron laser pulses at the European XFEL
10:45	11:10	Coffee Break				
11:10	11:25	Optics (I)	Kawal Sawhney	Takahiro Sato	SLAC National Accelerator Laboratory	Development of Nano-focus Capability and Applications at the XPP instrument at LCLS
11:25	11:40			Lei Huang	Brookhaven National Laboratory	Manufacturability-based optical design optimization for advanced Kirkpatrick–Baez X-ray focusing mirrors
11:40	11:55			Qiushi Huang	Tongi University	Metrology and manufacture of X-ray reflective optics with nanometer accuracy
11:55	13:25	Lunch Break				
13:25	13:55	Optics (II)	TBD	**(Invited) Kawal Sawhney**	Diamond Light Source	Optics and Metrology for Diamond-II upgrade
13:55	14:10			Huang-Wen Fu	NSRRC	The Active Mirror Plane Grating Monochromator
14:10	14:25			Natalia Gerasimova	European XFEL	High resolution prospects for the soft X-ray experiments at European XFEL
14:25	14:40			Shutaro Mohri	The University of Tokyo	Development of figure correction system based on thickness of Si for large Wolter mirror
14:40	14:55			Yusuke Yoshida	Nagoya University	Development of high-resolution space X-ray optics for the solar flare sounding rocket FOXSI-4: current status and future prospects
14:55	15:30	Photo & Break				
15:30	16:00	ALPS & HEDS & XOPT Joint session **Room 303**		TBD (ALPS)	TBD	TBD
16:00	16:30			Nicholas Hartley (HEDS)	SLAC National Accelerator Laboratory	HED Science with XFELs – Results and Future Directions
16:30	17:00		Makina Yabashi	**(Invited) Stefan Vogt (XOPT)**	Argonne National Laboratory	The Upgraded APS – Status, Early Results, and Opportunities
17:00	18:30					
18:30	20:30	**XOPT Banquet**				

Day2: April 23 (Wed)

JST		Session	Chair	Speaker	Affiliation	Title
9:00	9:30	Imaging (I)	Manuel Guizar-Sicairos	**(Invited) Xiaojing Huang**	Brookhaven National Laboratory	Future Coherent X-ray Imaging Capability at NSLS-II
9:30	9:45			Maik Kahnt	MAX IV	Imaging of smallest signals - hard x-ray dichroic ptychography at the iron K edge
9:45	10:00			Yuhei Sasaki	Tohoku University	Development of Tender X-ray Spectroscopic Ptychography Measurement System Using Advanced Kirkpatrick-Baez Mirrors
10:00	10:15			Tang Li	DESY	High-Resolution Imaging with Multibeam Ptychography: A Pathway to Unlocking Insights into Complex Samples
10:15	10:35	Coffee Break				
10:35	11:05	Imaging (II) / Method	Hiroto Motoyama	**(Invited) Kenji Tamasaku**	RIKEN SPring-8 Center	Spatial X-ray Modulator
11:05	11:20			Ralf Hendrik Menk	Elettra Sincrotrone Trieste	Advances in X-ray Spectral and Phase Contrast Imaging: A Unified Approach for a Multi-Modal Imaging System
11:20	11:35			Farangis Foroughi	University of Saskatchewan	An Advanced Analysis Method for Multiple Image Radiography(MIR)
11:35	11:50			Artem Saleev	Forschungszentrum Jülich	Towards Near Real-time Computation of Autocorrelation Functions for X-ray Photon Correlation Spectroscopy using FPGAs
11:50	12:05			Vladimir Lipp	European XFEL	Development and validation of modeling software SURFwiX to guide high-precision processing of materials of industrial relevance
12:05	13:30	Lunch Break				
13:30	15:00	**Poster Session** Pacifico Yokohama Exhibition Hall A				
15:00	16:15					
16:15	18:45	**OPIC Plenary** Room 501+502				

Day3: April 24 (Thu)

JST		Session	Chair	Speaker	Affiliation	Title
9:00	9:30	Imaging (III)	TBD	**(Invited) Pablo Villanueva-Perez**	Lund University	Novel AI-Driven 3D and 4D Imaging Opportunities at High-Brilliance Sources
9:30	10:00			**(Invited) Viktor Nikitin**	Argonne National Lboratory	New Developments and Advanced Reconstruction Algorithms in Nano-Holotomography
10:00	10:15			Yukie Nagai	The University of Tokyo	Comparison of Synchrotron X-ray CT volumes and Lab-based X-ray CT volumes towards Industrial Applications
10:15	10:35	Coffee Break				
10:35	10:50	XFEL	Yuya Kubota	Michele Manfredda	Elettra - Sincrotrone Trieste	Wavefront sensing at FELs: old tricks and new challenges with OAM beams, structured illumination and source metrology
10:50	11:05			Yoko Takeo	The University of Tokyo	Shot-by-shot analysis of spatially varying spectra in soft X-ray free-electron laser
11:05	11:20			Zhi Qiao	ShanghaiTech Unversity	Arrival timing diagnostic tools at Shanghai Soft X-ray Free Electron Laser (SXFEL)
11:20	11:35	Optics (III)		Masafumi Miyake	Osaka University	Development of an etching technique using atmospheric pressure plasma to realize a distortion-free Ge channel-cut crystal monochromator
11:35	11:50			Tianyi Wang	Brookhaven National Laboratory	Key Aspects of Sub-Nanometer Ion Beam Figuring for Synchrotron Hard X-Ray Mirror Fabrication
11:50	13:20	Lunch Break				
13:20	13:50	Optics (IV)	Aymeric Robert	**(Invited) Lorenzo Raimondi**	Advanced Light Source	Exploring the interaction between X-ray wave and optical elements: a physical optics perspective
13:50	14:05			Xianbo Shi	Argonne National Laboratory	Measurements of source emittance and beam coherence properties of the upgraded APS
14:05	14:20			Felix Wittwer	University of Siegen	Annular refractive x-ray lenses
14:20	14:35			Daiki Ishi	ISAS/JAXA	Bragg reflection X-ray polarimeter based on a bent silicon crystal using hot plastic deformation
14:35	15:00	Coffee Break				
15:00	15:15	Imaging (IV)	Takashi Kimura	Mikhail Lyubomirskiy	Lund University	Tilting X-ray Ptychography
15:15	15:30			Roberta Totani	Elettra Sincrotrone Trieste	The new Coherent Diffraction Imaging beamline at Elettra 2.0
15:30	15:45			Emil Jan Skrentny	Forschungszentrum Jülich GmbH	Operando X-ray Absorption Microscopy to Measure Concentration Profiles in Battery Electrolytes
15:45	16:00	Closing				