

XOPT2018 Simple oral program
Room 313+314

| Tue, 24th | Category | Chair | Speaker | Presentation title |
|-----------|--------------------------------------------|-------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 | Registration start | | | |
| 8:55 | Opening | | | |
| 9:00 | XFEL facilities | Aymeric Robert | Tetsuya Ishikawa | XOPT Opening Remarks |
| 9:15 | | | Diling Zhu | Status and Developments in Crystal Optics at the Linac Coherent Light Source |
| 9:30 | | | Jangwoo Kim | Hard X-ray focusing optics and applications at the PAL-XFEL |
| 9:45 | | | Taito Osaka | Recent Progress of SACLA |
| 10:00 | | | | |
| 10:15 | | | | |
| 10:30 | Break | | | |
| 10:45 | | | | |
| 11:00 | Optics I (refractive) | Lahsen Assoufid | 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 | | | | |
| 12:15 | | | | |
| 12:30 | Lunch | | | |
| 12:45 | | | | |
| 13:00 | | | | |
| 13:15 | | | | |
| 13:30 | Imaging I | Satoshi Matsuyama | 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) | Harald Sinn | 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 | | | Harald Sinn | Drilling ultra-high aspect ratio holes with an X-ray laser [Program change] |
| 16:30 | | | Ichiro Inoue | Reflection self-seeding at SACLA |
| 16:45 | | | Julius Hallstedt | X-ray Source Technology for High Throughput in the Home-Laboratory and Tomography Applications |
| 17:00 | Source | | | |
| 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 | | | | |
| 12:10 | | | | |
| 12:30 | Lunch | | | |
| 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 | European XFEL - New Opportunities for X-ray Science |
| 14:15 | | | Feidenhans'l | |
| 14:30 | | | | |
| 14:45 | | | | |
| 15:00 | Break | | | |
| 15:15 | | | | |
| 15:30 | Imaging II | Hidekazu Mimura | 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 Lamellar 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 | Taito Osaka | 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 | | | | |
| 10:45 | | | | |
| 11:00 | Poster session | | | |
| 11:15 | | | | |
| 11:30 | | | | |
| 11:45 | | | | |
| 12:00 | | | | |
| 12:15 | | | | |
| 12:30 | Lunch | | | |
| 12:45 | | | | |
| 13:00 | | | | |
| 13:15 | | | | |
| 13:30 | Optics IV (ML/diffractive) | Wataru Yashiro | Nathalie Bouet | 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) | Diling Zhu | 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

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|----|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------|
| 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 | Canceled | | |
| 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 |