

Wednesday, April 19

[ALPS, HEDS, XOPT Joint Session 1]

<Room 302>

13:30-15:30

Chairs: R. Kodama
Osaka University
H. Yoneda
Univ. Electro-Comm.

HEDSi-1 13:30

(Invited) Implementation of Extreme Light Infrastructure-Nuclear Physics

Kazuo Tanaka

Extreme Light Infrastructure -Nuclear Physics
(ELI-NP)

HEDSi-2 14:00

(Invited) High peak and average power laser research at the Laboratory for Laser Energetics

Michael Campbell

University of Rochester, USA

ALPSi-1 14:30

(Invited) Linking high harmonics from solids and gases

Paul B. Corkum

University of Ottawa, Canada

ALPSi-2 15:00

(Invited) Recent Advances of the Apollon 10 PW Laser

Ji-Ping Zou¹, D. N. Papadopoulos¹, C. L. Blanc¹, F. Druon², L. Martin¹, A. Fréneaux¹, C. Bonnin¹, I. Taghzout¹, A. Beluze¹, N. Lebas¹, B. L. Garrec¹, F. Mathieu¹, and P. Audebert¹

¹Lab. pour l'Utilisation des Lasers Intenses, CNRS, Ecole Polytechnique, CEA, Univ. Pierre et Marie Curie, Palaiseau, France, ²Lab. Charles Fabry, Inst. d'Optique, CNRS, Univ. Paris Sud, Palaiseau, France

----- 15:30-16:00 Break -----

[ALPS, HEDS, XOPT Joint Session 2]

<Room 302>

16:00-17:00

Chair: M. Yabashi
RIKEN SPring-8 Center, Japan

XOPTj-1 16:00

(Invited) Perfect X-ray focusing via fitting corrective glasses to aberrated optics

Christian G. Schroer

DESY/University of Hamburg, Germany

XOPTj-2 16:30

(Invited) Probe into vacuum field using high intensity X-ray

Shoji Asai

The University of Tokyo, Japan

----- 17:00-18:00 Break / Move -----

[OPIC Reception]

18:00-20:00

Thursday, April 20

[Opening]

<Room 313+314>

8:55-9:00

Opening Remarks

Kazuto Yamauchi

Osaka University, Japan

[XOPT1] Imaging, microscopy & ptychography (I)

9:00-10:30

Chair: H. Mimura
The University of Tokyo

XOPT1-1 9:00

(Invited) Optics for Lensless X-Ray Microscopy

Andreas Menzel

Paul Scherrer Institut, Switzerland

XOPT1-2 9:30

(Invited) High-resolution hard X-ray spectro-ptychography

Yukio Takahashi^{1,2}

¹Osaka University, Japan, ²RIKEN SPring-8 Center, Japan

XOPT1-3 10:00

(Invited) Recent Developments in X-ray Phase Imaging and X-ray Phase Tomography

Atsushi Momose

Tohoku University, Japan

----- 10:30-11:00 Break -----

[XOPT2] Imaging, microscopy & ptychography (II)

11:00-12:00

Chair: Y. Takahashi
Osaka University

XOPT2-1 11:00

Progress in X-ray phase contrast imaging based on random modulation

Sebastien Berujon, Eric Ziegler

ESRF, France

XOPT2-2 11:15

Simultaneous Image Reconstruction of Attenuation, Scatter and Phase Using the Compressed Sensing in Sparse-View Phase CT

Ryosuke Ueda^{1,2}, Hiroyuki Kudo^{1,2}, Koichi Matsuo³

¹University of Tsukuba, Japan, ²JST-ERATO, Japan,

³Keio University, Japan

XOPT2-3 11:30

Achromatic and High-Resolution Full-Field X-ray Microscope and its Applications

Satoshi Matsuyama¹, Jumpei Yamada¹, Shuhei

Yasuda¹, Yoshiki Kohmura², Hiromi Okada³, Yasuhisa

Sano¹, Makina Yabashi², Tetsuya Ishikawa², Kazuto

Yamauchi¹

¹Osaka University, Japan, ²RIKEN SPring-8 Center,

Japan, ³JTEC Corporation, Japan

XOPT2-4 11:45

Development of precision sub-arcsecond-resolution Wolter mirrors for future X-ray observations of the Sun
Taro Sakao¹, Satoshi Matsuyama², Takumi Goto², Jumpei Yamada², Shuhei Yasuda², Kazuto Yamauchi², Yoshiki Kohmura³, Ayumi Kime⁴, Yoshinori Suematsu⁵, Akira Miyake⁶, Tadakazu Maezawa⁷, and Hirokazu Hashizume⁷

¹ISAS/JAXA, Japan, ²Osaka University, Japan, ³RIKEN SPring-8 Center, Japan, ⁴JAXA, Japan, ⁵National Astronomical Observatory, Japan, ⁶Canon Inc., Japan, ⁷Natsume Optical Corp., Japan

----- 12:00-13:30 Lunch -----

[XOPT3] Optical components & systems (I)

13:30-15:00

Chair: H. Yumoto
JASRI

XOPT3-1 13:30

(Invited) X-ray in-line interferometers based on refractive optics

Anatoly Snigirev
Baltic Federal University, Russia

XOPT3-2 14:00

Development of soft x-ray focusing system with ellipsoidal mirror

Yoko Takeo¹, Hiroto Motoyama¹, Yasunori Senba², Hikaru Kishimoto², Haruhiko Ohashi², Hidekazu Mimura¹

¹The University of Tokyo, Japan, ²JASRI, Japan

XOPT3-3 14:15

Advances in Axially Symmetric Microfocus and Nanofocus Xrays

Wenbing Yun, Benjamin Stripe, Mark Cordier, Janos Kirz, Richard Ian Spink, Sylvia Lewis
Sigray, USA

XOPT3-4 14:30

Design and Test of a Miniature Dynamic Mirror Bender with Lamellar Flexure Bending Mechanism for X-ray Microfocusing

Deming Shu¹, Aiguo Li², Steven Kearney¹, Chengwen Mao², Jayson Anton¹, Yaolin Pan²

¹Argonne National Laboratory, USA, ²Shanghai Institute of Applied Physics, China

XOPT3-5 14:45

The ALS ex situ metrology for x-ray optics: current capabilities, new challenges, and tasks for further developments

Valeriy Yashchuk, Gevork Gevorkyan, Ian Lacey, Sergey Nikitin

Advanced Light Source, Lawrence Berkeley National Laboratory, USA

----- 15:00-15:30 Break -----

[XOPT4] Inelastic scattering & spectroscopy

15:30-18:00

Chair: M. Yabashi
RIKEN SPring-8 Center

XOPT4-1 15:30

(Invited) Optics and Optical Issues for IXS

Alfred Q.R. Baron

RIKEN SPring-8 Center, Japan

XOPT4-2 16:00

(Invited) Inelastic x-ray scattering and new frontiers in x-ray optics

Hasan Yavans
DESY, Germany

XOPT4-3 16:30

(Invited) Flat-Crystal Optics for Ultra-High Energy-Resolution Resonant Inelastic X-ray Scattering

Thomas Gog, Jung Ho Kim, Diego M. Casa, Mary H. Upton, Ayman Said, XianRong Huang
Argonne National Laboratory, USA

XOPT4-4 17:00

X-ray Echo Spectroscopy

Yuri Shvyd'ko

Advanced Photon Source, Argonne National Laboratory, USA

XOPT4-5 17:15

(Invited) 2-Dimensional VLS Gratings for X-ray Spectroscopy and Monochromators with Femtosecond Time Resolution

Alexei Erko

Helmholtz Zentrum Berlin, Deutschland

XOPT4-6 17:45

An improved multi-channel multilayer-mirrors-based EUV/soft X-ray spectrometer developed for the dynamic hohlraum experiment

Qiang Yi¹, Yi Qin¹, Rongkun Xu¹, Taiping Peng¹, Qiushi Huang², Zhanshan Wang²

¹INPC, CAEP, China, ²Tongji University, China

----- 18:00-19:00 Break/Move -----

[XOPT Banquet]

19:00-21:00

Friday, April 21

[XOPT5] XFEL facilities

<Room 313+314>

8:45-10:15

Chair: Y. Feng
SLAC National Accelerator Laboratory

XOPT5-1 8:45

(Invited) Recent progress and development in hard X-ray instrumentation and applications at LCLS

Takahiro Sato

Linac Coherent Light Source, SLAC National Accelerator Laboratory, USA

XOPT5-2 9:15

(Invited) Current status and future perspectives of SACLA

Yuichi Inubushi¹, Kensuke Tono¹, Tadashi Togashi¹, Shigeki Owada², Toshinori Yabuuchi², Tetsuo Katayama¹, Akira Kon¹, Ichiro Inoue², Taito Osaka², Makina Yabashi²

¹JASRI, Japan, ²RIKEN SPring-8 Center, Japan

XOPT5-3 9:45

(Invited) Status of the European XFEL

Harald Sinn

European XFEL, Germany

[XOPT6] Optical components & systems (II)

10:15-10:30

Chair: Y. Feng
SLAC National Accelerator Laboratory

XOPT6-1 10:15

Hard X-ray Split-and-Delay Optics with wavefront Division at SACLA

Takashi Hirano¹, Taito Osaka², Yasuhisa Sano¹, Yuichi Inubushi³, Tadashi Togashi³, Ichiro Inoue², Satoshi Matsuyama¹, Kensuke Tono³, Kazuto Yamauchi¹, Makina Yabashi²

¹Osaka University, Japan, ²RIKEN SPring-8 Center, Japan, ³JASRI, Japan

----- 10:30-11:00 Break -----

[XOPT7] Photon diagnostic & new techniques

11:00-12:00

Chair: Y. Inubushi
JASRI

XOPT7-1 11:00

Determination of XFEL pulse duration via X-ray intensity interferometry

Ichiro Inoue¹, Toru Hara¹, Yuichi Inubushi², Kensuke Tono², Hitoshi Tanaka¹, Makina Yabashi¹

¹RIKEN SPring-8 Center, Japan, ²JASRI, Japan

XOPT7-2 11:15

Tunable Young's double pinhole system coupled with lens for hard X-ray spatial coherence characterization

Irina Snigireva¹, Mikhail Lyubomirskiy², Anatoly Snigirev³

¹ESRF, France, ²DESY, Germany, ³Baltic Federal

University, Russia

XOPT7-3 11:30

Single bunch extraction by SAW driven bunch chopper

Simone Vadilonga¹, Ivo Zizak¹, Andrei Petsiuk¹, Dmitry Roshchupkin², Igor Dolbnya³, Kawal Sawhney³, Alexei Erko¹

¹Helmholtz Zentrum Berlin, Germany, ²Institute of Microelectronics Technology and High Purity Materials, Russian Academy of Sciences, Russia, ³Diamond Light Source, England

XOPT7-4 11:45

New design of environmental cells as a first step toward 3D imaging in solution by X-ray laser diffraction

Akihiro Suzuki¹, Tatsuro Tachibana¹, Naoya Tani¹, Yasumasa Joti², Yoshitaka Bessho³, Takashi Kimura¹, Yoshinori Nishino¹

¹Hokkaido University, Japan, ²JASRI, Japan, ³Academia Sinica, Taiwan

----- 12:00-13:00 Lunch -----

[XOPTp8] Poster Session

<Exhibition Hall A>

13:00-14:30

XOPTp8-1

Influence of the air's refractive index on autocollimator-based deflectometric form measurement of beamline optics

Ralf D. Geckeler¹, Petr Kren², Andreas Just¹, Matthias Schumann¹, Michael Krause¹, Harald Bosse¹

¹Physikalisch-Technische Bundesanstalt (PTB), Germany, ²Czech Metrology Institute (CMD), Czech Republic

XOPTp8-2

withdraw

XOPTp8-3

Development of Measurement System for 1 m-long, large-curvature and ellipsoidal synchrotron mirrors

Hiroki Nakamori^{1,2}, Hiromi Okada¹, Shinya Aono¹, Akihiko Ueda¹, Kazuto Yamauchi², Takashi Tsumura¹

¹JTEC Corporation, ²Osaka University, Japan

XOPTp8-4

Scanning optical probe profilometer for x-ray focusing mirrors with highly sloped surface

Hirokatsu Yumoto, Takahisa Koyama, Haruhiko Ohashi

JASRI, Japan

XOPTp8-5

Precise stitching angle determination of surface profiles measured by microscopic interferometer

Yusuke Matsuzawa, Hidekazu Mimura

The University of Tokyo, Japan

XOPTp8-6

Development of Wavefront Measurement Device for accurate Figure Evaluation of Ellipsoidal Mirror

Takahiro Saito, Yoko Takeo, Satoru Egawa, Hidekazu Mimura

The University of Tokyo, Japan

XOPTp8-7

Development of calibration method for X-ray single-grating interferometry

Takato Inoue¹, Satoshi Matsuyama¹, Shogo Kawai¹, Hirokatsu Yumoto², Yuichi Inubushi², Takahisa Koyama², Kensuke Tono², Haruhiko Ohashi², Takuya Katayama³, Shunji Goto², Tetsuya Ishikawa³, Makina Yabashi³, Kazuto Yamauchi¹

¹Osaka University, Japan, ²JASRI, Japan, ³RIKEN SPring-8 Center, Japan

XOPTp8-8

Development of a multilayer KB mirror system for sub-10 nm XFEL focusing

Shogo Kawai¹, Satoshi Matsuyama¹, Takato Inoue¹, Hirokatsu Yumoto², Yuichi Inubushi², Taito Osaka³, Takahisa Koyama², Kensuke Tono², Haruhiko Ohashi², Makina Yabashi³, Tetsuya Ishikawa³, Kazuto Yamauchi¹

¹Osaka University, Japan, ²JASRI, Japan, ³RIKEN

SPring-8 Center, Japan

XOPTp8-9

Study of X-ray multilayer mid-frequency characterizations using speckle scanning techniques

Hui Jiang

Shanghai Synchrotron Radiation Facility, China

XOPTp8-10

X-ray microscope with two-lens design and liquid-metal-jet source.

Dmitry Serebrennikov¹, Yuriy Dudchik², Aleksandr Barannikov¹, Natalia Klimova¹, Anatoly Snigirev¹

¹I. Kant BFU, Russia, ²Institute of Applied Physics Problems, Belarus

XOPTp8-11

High-magnification X-ray imaging mirror system consisting of elliptical concave and hyperbolic convex mirrors

Jumpei Yamada¹, Satoshi Matsuyama¹, Shuhei Yasuda¹, Yasuhisa Sano¹, Yoshiki Kohmura², Makina Yabashi², Tetsuya Ishikawa², Kazuto Yamauchi¹

¹Osaka University, Japan, ²RIKEN SPring-8 Center, Japan

XOPTp8-12

Construction of a soft x-ray transmission microscope for evaluation of Wolter mirror optics

Satoru Egawa, Hiroto Motoyama, Atsushi Iwasaki, Kaoru Yamanouchi, Hidekazu Mimura

The University of Tokyo, Japan

XOPTp8-13

Replication accuracy of electroforming process for X-ray ellipsoidal mirror

Takehiro Kume, Yoshinori Takei, Satoru Egawa, Gota Yamaguchi, Hiroto Motoyama, Hidekazu Mimura

The University of Tokyo, Japan

XOPTp8-14

Fabrication of ellipsoidal mirror by Cu electroforming

Gota Yamaguchi, Takehiro Kume, Hidekazu Mimura

The University of Tokyo, Japan

XOPTp8-15

Focusing the EUV light with ellipsoidal mirror

Hiroto Motoyama, Atsushi Iwasaki, Takahiro Sato, Yoshinori Takei, Takehiro Kume, Satoru Egawa, Kaoru Yamanouchi, Hidekazu Mimura

The University of Tokyo, Japan

XOPTp8-16

Development of an adaptive x-ray focusing system based on the combination of piezoelectric bimorph mirror and mirror bender

Takumi Goto¹, Satoshi Matsuyama¹, Hiroki Hayashi¹, Junki Sonoyama², Kazuki Akiyama², Hiroki Nakamori³, Yasuhisa Sano¹, Kazuto Yamauchi¹

¹Osaka University, Japan, ²TOYAMA, Japan, ³JTEC Corporation, Japan

XOPTp8-17

withdraw

XOPTp8-18

Development of Lamina-type Varied-line-spacing Holographic Gratings for Soft X-ray

Hiroto Ogimoto, Hidekazu Mimura
The University of Tokyo, Japan

XOPTp8-19

Apodization Fresnel zone plate for improvement of imaging properties of full-field x-ray microscopy

Akihisa Takeuchi¹, Kentaro Uesugi¹, Yoshio Suzuki²
¹JASRI, Japan, ²The University of Tokyo, Japan

XOPTp8-20

High Resolution X-ray Imaging with a Structured Scintillator

Ilya Sychugov, Yashar Hormozan, Jan Linnros
KTH - Royal Institute of Technology, Sweden

XOPTp8-21

Feasibility study of X-ray thermography using phase-contrast X-ray imaging

Akio Yoneyama¹, Kazuyuki Hyodo²
¹Hitachi Ltd., Japan, ²KEK PF, Japan

XOPTp8-22

Radiography and tomography based on microfocus source for x-ray refractive optics diagnostics

Anton Narikovich¹, Valery Savin¹, Dmitriy Zverev¹, Natalya Klimova¹, Irina Snigireva², Anatoly Snigirev¹
¹Immanuel Kant Baltic Federal University, Russia, ²European Synchrotron Radiation Facility, France

XOPTp8-23

Development of X-ray Phase-CT microscope using laboratory source

Hidekazu Takano, Yanlin Wu, Wataru Yashiro, Atsushi Momose
Tohoku University, Japan

XOPTp8-24

Millisecond Hard X-ray Phase Tomography Using Gratings

Wataru Yashiro^{1,2}, Kentaro Kajiwara⁴, Ryosuke Ueda^{2,3}, Hiroyuki Kudo^{2,3}
¹Tohoku University, ²JST-ERATO, Japan, ³University of Tsukuba, ⁴JASRI, Japan

XOPTp8-25

Development of high spatial resolution Talbot-based X-ray microscopy with wide field of view to elucidating a mechanism of bone formation

Yanlin Wu¹, Hidekazu Takano¹, Mashahito Hoshino², Karol Vegso², Koichi Matsuo³, Wataru Yashiro¹, Atsushi Momose¹
¹Tohoku University, Japan, ²JASRI, Japan, ³Keio University, Japan

XOPTp8-26

New Developments at the Diamond-Manchester Imaging branchline at Diamond Light Source

Silvia Cipiccia, Shashidhara Marathe, Malte Ogurreck, Andrew Bodey, Ulrich Wagner, Xiaowen Shi, Darren Batey, Marie-Christine Zdora, Christoph Rau
Diamond Light Source, United Kingdom

XOPTp8-27

Performance of a soft X-ray emission spectrometer with wideband multilayer optics in 1-3.5 keV region

Takashi Imazono
National Institutes for Quantum and Radiological Science and Technology, Japan

XOPTp8-28

Determination of absorbed doses to the eye lens and thyroid gland with applied irradiation protocols in orthopantomography equipment for dental panoramic radiography

Awer Munoz¹, Modesto Sosa¹, Juan Azorin², Miguel Vallejo¹, Lina Ramirez²
¹University of Guanajuato, Mexico, ²Metropolitan Technological Institute, Colombia

XOPTp8-29

Identification of materials and structures using energy resolved X-ray backscatter

Daniel O'Flynn¹, Chiaki Crews¹, Nicholas Fox², Mark Sammons², Stefano Bettelli², Brian Allen³, Robert Speller¹
¹University College London, United Kingdom, ²Axi-Tek, United Kingdom, ³QinetiQ, United Kingdom

XOPTp8-30

Fluid Dynamics Analysis of a Gas Device for High Repetition Rate X-ray FELs

Bo Yang¹, Juhao Wu², Tor Raubenheimer², Yiping Feng²
¹The University of Texas at Arlington, USA, ²SLAC National Accelerator Laboratory, USA

XOPTp8-31

Experimental Observation of Gas Filamentation Effect in Gas Devices for X-ray FELs

Yiping Feng
SLAC National Accelerator Laboratory, USA

XOPTp8-32

Transmissive Single-shot Intensity and Position Diagnostics for X-ray FELs using Gas Fluorescence

Clemens Weninger, Diling Zhu, Matthieu Chollet, Yiping Feng
SLAC National Accelerator Laboratory, USA

XOPTp8-33

Lipid bilayer chambers for pulsed coherent X-ray solution scattering

Naoya Tani¹, Takashi Kimura¹, Akihiro Suzuki¹, Yasumasa Joti², Yoshitaka Bessho³, Yoshinori Nishino¹
¹Hokkaido University, Japan, ²JASRI, Japan, ³Academia Sinica, Taiwan

XOPTp8-34

Multiple defocused coherent diffraction imaging: method for simultaneously reconstructing objects and probe using XFELs

Makoto Hirose^{1,2}, Kei Shimomura^{1,2}, Nicolas Burdet², Yukio Takahashi^{1,2}
¹Osaka University, ²RIKEN SPring-8 Center, Japan

XOPTp8-35

Coherent X-ray Diffraction Imaging at SPring-8 Hyogo Beamline BL24XU

Yuki Takayama, Yuki Takami, Takamasa Miyagawa,
Yasushi Kagoshima
University of Hyogo, Japan

XOPTp8-36

Measuring Temporal Profile of Femtosecond X-Ray Pulses with a Hard X-Ray Split-and-Delay Optical System at SACLA

Taito Osaka¹, Takashi Hirano², Yuki Morioka²,
Yasuhisa Sano², Yuichi Inubushi³, Tadashi Togashi³,
Ichiro Inoue¹, Kensuke Tono³, Satoshi Matsuyama²,
Kazuto Yamauchi², Makina Yabashi¹

¹RIKEN SPring-8 Center, Japan, ²Osaka University,
Japan, ³JASRI, Japan

XOPTp8-37

Diamond drumhead crystals

Tomasz Kolodziej¹, Preeti Vodnala², Vladimir Blank³,
Sergey Terenye³, Yuri Shvyd'ko¹

¹Argonne National Laboratory, Advanced Photon
Source, USA, ²Northern Illinois University, USA,
³Technological Institute for Superhard and Novel
Carbon Materials, Russia

XOPTp8-38

Development of Micrometer-sized Liquid Enclosure Chip for Imaging of Samples in Solution by Single-shot X-ray Laser Diffraction

Takashi Kimura¹, Akihiro Suzuki¹, Yasumasa Joti²,
Yoshitaka Bessho³, Yoshinori Nishino¹

¹Hokkaido University, Japan, ²JASRI, Japan,
³Academia Sinica, Taiwan

XOPTp8-39

Coherent X-ray Scattering at TPS: Beamline, Commissioning, and Application

Yu-Shan Huang, Jih-Min Lin, Chun-Yu Chen,
Hong-Yi Yan, Chao-Chih Chiu
National Synchrotron Radiation Research Center,
Taiwan

XOPTp8-40

The Montel mirror for x-ray nanoprobe ready for commission at Taiwan Photon Source

Gung-Chian Yin, Shi-Hung Chang, Bo-Yi Chen,
Chien-Yu Lee, Bi-Hsuan Lin, Shao-Chin Tseng,
Xiao-Yun Li, Huang-Yeh Chen, Jian-Xing Wu, and
Mau-Tsu Tang

National Synchrotron Radiation Research Center,
Taiwan

----- 14:30-14:45 Break -----

[XOPT9] Optical components & systems (III)

<Room 313+314>

14:45-16:00

Chair: C. Schroer
DESY/University of Hamburg

XOPT9-1 14:45

(Invited) Diffractive X-ray Optics: Opportunities for Photon Science at Large Scale Facilities

Christian David
Paul Scherrer Institut, Switzerland

XOPT9-2 15:15

Multilayer based monochromators for upgraded ESRF beamlines

Christian Morawe, Jean-Christophe Peffen
ESRF, France

XOPT9-3 15:30

X-ray Kinoform Beamsplitters

Maxime Lebugle, Felix Marschall, Gediminas Seniutinas, Vitaliy A. Guzenko, Daniel Grolimund, Christian David
Paul Scherrer Institut, Switzerland

XOPT9-4 15:45

Development of X-ray optics for DLSRs

Makina Yabashi
RIKEN SPring-8 Center, Japan

----- 16:00-16:15 Break -----

[XOPT10] Optical components & systems (IV)

16:15-17:45

Chair: H. Sinn
European XFEL

XOPT10-1 16:15

(Invited) Future directions in X-ray Optics at Diamond Kawal Sawhney

Diamond Light Source, UK

XOPT10-2 16:45

Variable Resolving Power Soft X-ray Self-Seeding Optical Design

Yiping Feng, Gabriel Marcus, Tor Raubenheimer
SLAC National Accelerator Laboratory, USA

XOPT10-3 17:00

Overcoming the Limits of Mirror Performance at LCLS

Corey Hardin, Venkat Srinivasan, Nicholas Kelez, Daniel Morton, Peter Stefan, Josep Nicolas, Lin Zhang, Daniele Cocco
SLAC National Accelerator Laboratory, USA

XOPT10-4 17:15

KB Mirror Design for the LCLS-II SXR Beam Line

Daniel Morton, Daniele Cocco, Nicholas Kelez, Lin Zhang
Linac Coherent Light Source, SLAC National Accelerator Laboratory, USA

XOPT10-5 17:30

Studies of diamond endurance to irradiation with x-ray

beams of multi kW/mm² power densities for XFEL application

Tomasz Kolodziej¹, Kwang-Je Kim¹, Deming Shu¹, Steven Kearney¹, Stanislav Stoupin¹, Wenjun Liu¹, Thomas Gog¹, Paulo Rigg², Donald Walko¹, Jin Wang¹, Ayman Said¹, Wenge Yang³, Maria Baldini³, Vladimir Blank⁴, Sergey Terentyev⁴, Yuri Shvyd'ko¹

¹Argonne National Laboratory, Advanced Photon Source, USA, ²Dynamic Compression Sector, Washington State University, USA, ³HPSynC, Advanced Photon Source, USA, ⁴Technological Institute for Superhard and Novel Carbon Materials, Russia

[Closing]

17:45-18:00

Closing Remarks

Tetsuya Ishikawa
RIKEN SPring-8 Center, Japan