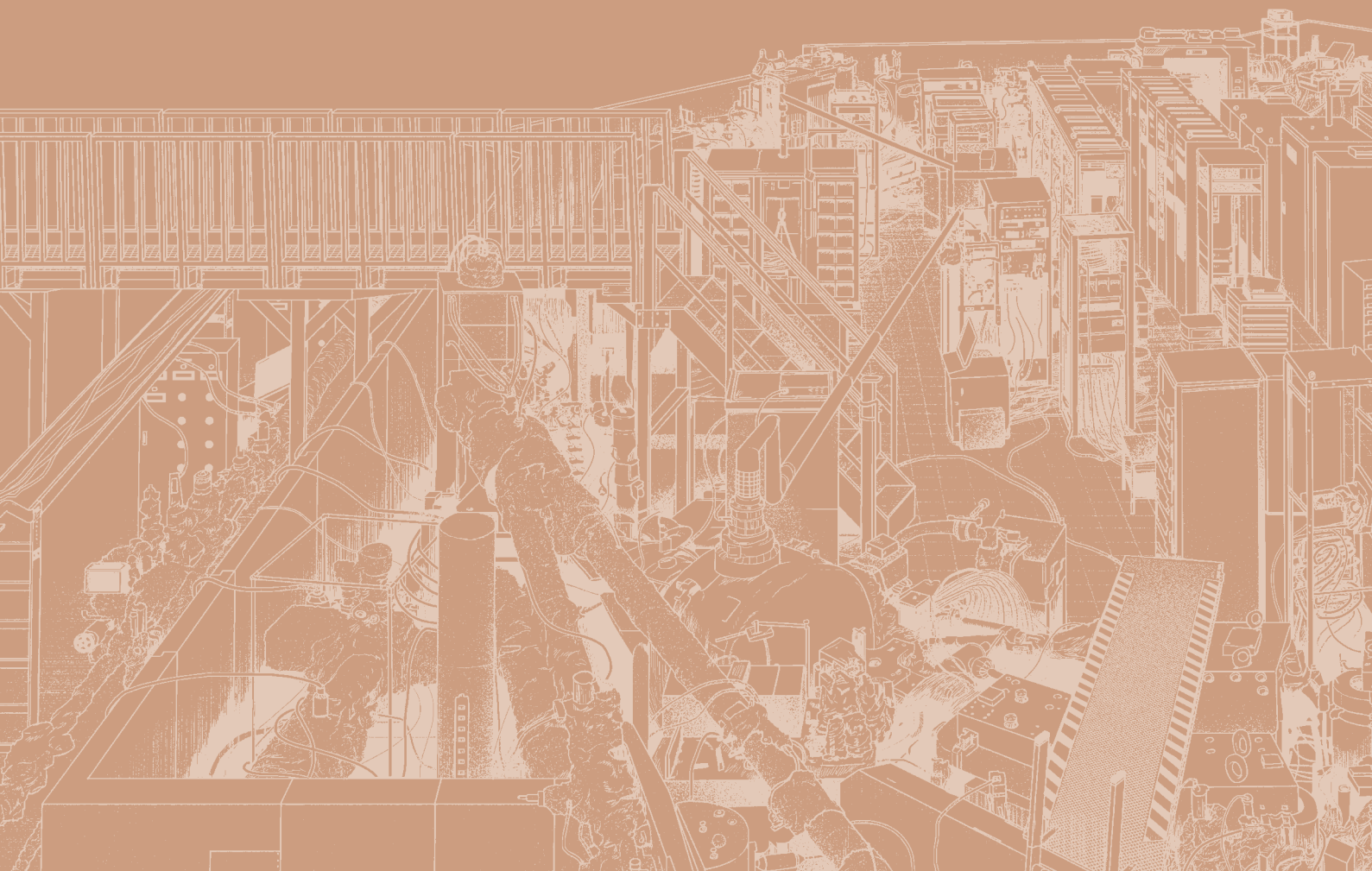
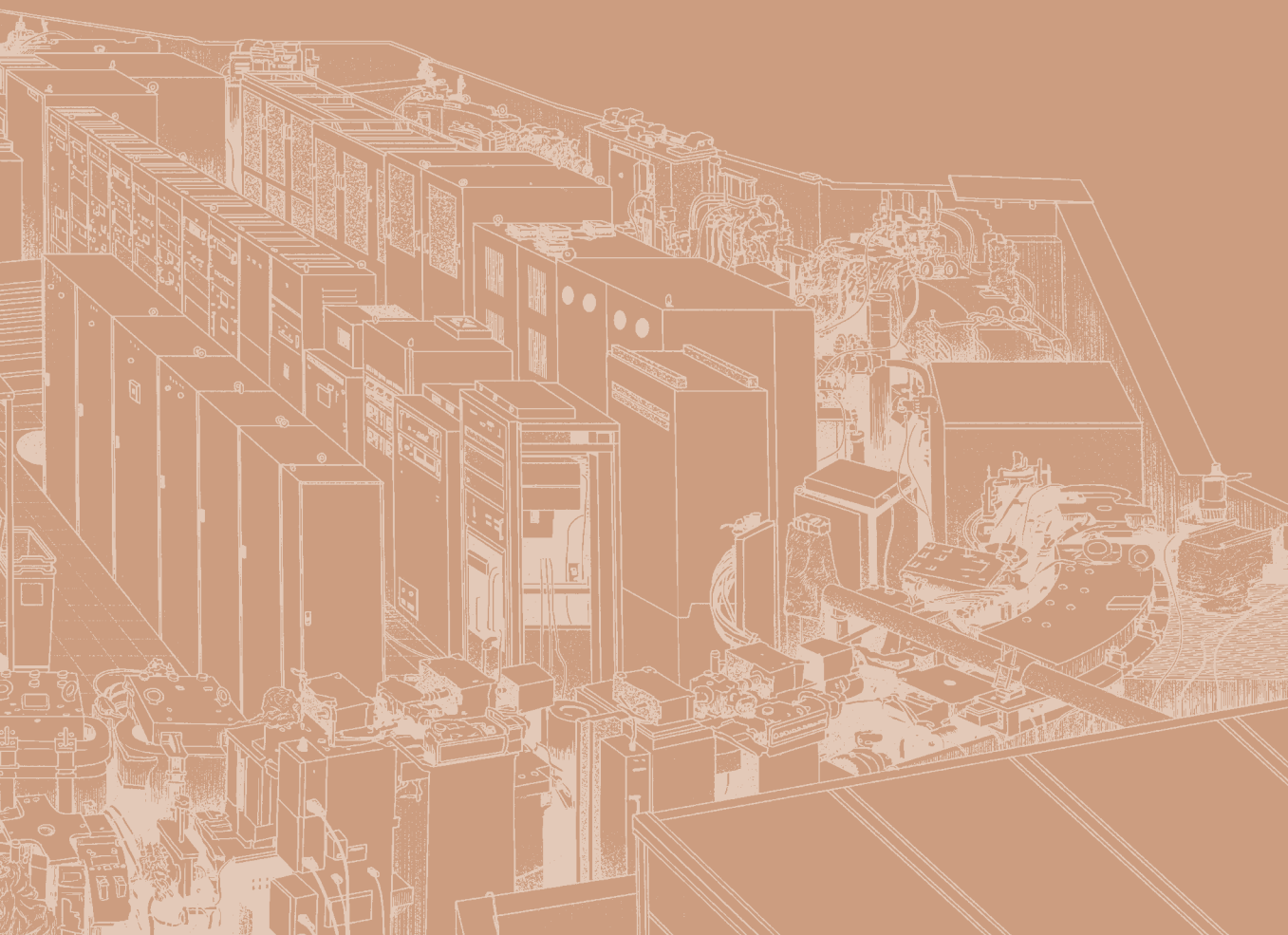




Workshops





UVSOR Symposium 2022

Date: November 26-27, 2022

Place: Okazaki Conference Center (face-to face), Zoom (online)

November 26th (Sat.)

13:00 – 13:05 Opening remarks
H. Iwayama (UVSOR)

<Session 1, Chair: **F. Matsui** (UVSOR)>

13:05 – 13:25 Current status of UVSOR facilities and plans for the next fiscal year
S. Kera (UVSOR Director)

13:25 – 13:45 LATTICE DESIGN FOR FUTURE PLAN OF UVSOR
E. Salehi (UVSOR)

13:45 – 14:05 Applications of attosecond-controlled double pulses generated by tandem undulator
T. Kaneyasu (SAGA LS)

14:05 – 14:35 [Invited Lectures] Coordinated STXM-NEXAFS and TEM analysis of organic materials in samples returned by asteroid Ryugu
M. Uesugi (JASRI)

14:35 – 14:50 Break Time

<Session 2, Chair: **M. Kitaura** (Yamagata Univ.)>

14:50 – 15:20 [Invited Lectures] Investigation of Active Organometallic Species by Soft-X-ray XAS
H. Takaya (Teikyo Univ. of Science)

15:20 – 15:40 Structural and magnetic properties of FeNi and FeCo alloy thin films on Cu (001) grown by nitrogen surfactant epitaxy
T. Miyamachi (Nagoya Univ.)

15:40 – 16:00 Evaluation of X-ray photon counting capability of CMOS sensor aboard FOXSI-4 sounding rocket for solar flare observation
R. Shimizu (SOKENDAI)

16:00 – 16:20 Luminescence Properties of NaCl:Tl⁺ and NaCl:Au⁻ Crystals
T. Kawai (Osaka Metropolitan Univ.)

16:20 – 16:35 Break Time

16:35 – 17:20 Short Presentation for Poster Session (Online video streaming)

17:30 – 18:15 Poster Session (Remo) First half (Odd poster number)

18:15 – 19:00 Poster Session (Remo) Second half (Even poster number)

19:00 – 21:00 Banquet

November 27th (Sun.)

<Session 3, Chair: **Y. Hikosaka** (Toyama Univ.)>

- | | |
|---------------|--|
| 9:00 – 9:20 | Exploring biopolymer aggregations with intense infrared radiation
T. Kawasaki (KEK) |
| 9:20 – 9:40 | Current Status of Spin-Resolved ARPES at BL5U and Development for Automatic Measurement at BL5U and BL7U
K. Tanaka (UVSOR) |
| 9:40 – 10:00 | Surface valence transition in SmS by alkali metal adsorption
T. Nakamura (Osaka Univ.) |
| 10:00 – 10:20 | Momentum-resolved resonant photoelectron spectroscopy at the Ti2p-3d edge of TiSe ₂ : interatomic interaction and negative q in Fano resonance.
S. Tanaka (Osaka Univ.) |
| 10:20 – 10:50 | [Invited Lectures] Spectroscopic study on the topological quantum phenomena of 2D magnets
T. Hirahara (Tokyo Inst. of Tech.) |
| 10:50 – 11:00 | Break Time |
| 11:00 – 12:00 | UVSOR USERS' UNION meeting |

The 5th workshop on prospects and construction plan of the next generation synchrotron radiation facility: Cooperation between facilities II

Date: November 27, 2022

Place: Okazaki Conference Center (face-to face), Zoom (online)

November 27th (Sun.)

13:00 – 13:30	Present status of NanoTerasu H. Yamane (PhoSiC)
13:30 – 14:00	Present status of AichiSR T. Okajima (AichiSR)
14:00 – 14:30	Future plan of AichiSR H. Sonoeda (AichiSR)
14:30 – 15:00	Progress on the future plan of UVSOR S. Kera (UVSOR Director)
15:00 – 15:30	General Discussion: cooperation between NanoTerasu, AichiSR and UVSOR Partnership between NanoTerasu, AichiSR, and UVSOR

IMS Symposium “Resonant Soft X-ray Scattering and Reflectivity”

Date: November 8th, 2022

Place: Zoom Conference

November 8th (Tue.)

10:00 – 10:10	Welcome & Introduction T. Araki (Diamond Light Source)
10:10 – 11:00	Keynote Lecture Probing Morphology and Chemistry in Complex Soft Materials with <i>In Situ</i> Resonant Soft X-ray Scattering C. Wang (Advanced Light Source)
11:00 – 11:15	Break
11:15 – 11:40	Resonant X-Ray Scattering and Reflectivity Measurements of EUV Photoresist at NewSUBARU Synchrotron Light Facility T. Harada (Univ. of Hyogo)
11:40 – 12:05	Development of Resonant Soft X-ray Scattering Equipment at UVSOR and Photon Factory H. Iwayama (UVSOR)
12:05 – 12:30	Concept of Thin Film Analysis Instrument with Soft X-ray Reflectometry and Absorption Spectroscopy Under Wet Conditions N. L. Yamada (KEK)
12:30 – 13:30	Lunch Break
13:30 – 13:55	Anomalous Small-angle Scattering of Alloys in Tender X-rays Region H. Okuda (Kyoto Univ.)
13:55 – 14:25	Nano-structure of Polymer Film Analyzed by Small Angle Scattering and Reflectivity Utilizing Tender X-rays at BL15A2 in PF K. Yamamoto (Nagoya Institute of Technology)
14:25 – 14:50	Neutron Analysis of Polymer Electrolyte Fuel Cells M. Harada (Toyota Central R&D Labs. Inc.)
14:50 – 15:05	Break
15:05 – 15:30	The Structure Analysis of Liquid Crystals by Resonant Soft X-ray Scattering Y. Takanishi (Kyoto Univ.)
15:30 – 15:55	Solvent-Induced Transition of Polymorphological Chiral Supramolecular Architectures in a Bent-Core Liquid Crystal Dimer F. Araoka (RIKEN)
15:55 – 16:20	Characterizing Self-Assembled Nanoparticles of Drug Delivery by use of Solution Scattering K. Sakurai (Univ. of Kitakyushu)
16:20 – 16:30	Break
16:30 – 17:10	Discussion
17:10 – 17:15	Closing S. Kera (IMS)

IMS Symposium “Symposium on Generation and Advanced Use of Various Quantum Beams in UVSOR-III”

Date: November 28, 2022

Place: Okazaki Conference Center (face-to face), Zoom (online)

November 28th (Mon.)

8:50 – 9:00 Purpose Definition
 Y. Taira (UVSOR)

<Chair: **Y. Taira** (UVSOR)>

9:00 – 9:30 History of UVSOR light source development beamlines
 M. Katoh (Hiroshima Univ.)

9:30 – 10:00 Free electron laser development, utilization and future prospects
 H. Zen (Kyoto Univ.)

10:00 – 10:30 Development of coherent higher harmonic light sources in UVSOR
 F. Sakamoto (National Inst. of Tech., Akita College)

10:30 – 10:40 Break Time

<Chair: **H. Zen** (Kyoto Univ.)>

10:40 – 11:10 Generation of attosecond controlled double pulses by tandem undulators and their application to atomic and molecular experiments
 T. Kaneyasu (SAGA LS)

11:10 – 11:40 Control of spatio-temporal structure of synchrotron radiation and its potential applications
 M. Katoh (Hiroshima Univ.)

11:40 – 12:10 Study on chirality emergence in organic molecules by irradiation of ultraviolet circularly polarized light
 M. Kobayashi (Natl. Inst. for Fusion Sci.)

12:10 – 13:30 Lunch Time

<Chair: **M. Katoh** (Hiroshima Univ.)>

13:30 – 14:00 Development and utilization of gamma-ray source in UVSOR-III and its future development
 Y. Taira (UVSOR)

14:00 – 14:30 Current status of the NewSUBARU gamma-ray beamline BL01
 S. Hashimoto (Univ. of Hyogo)

14:30 – 15:00 Nuclear physics experiments using gamma-rays and their applications
 H. Ohgaki (Kyoto Univ.)

15:00 – 15:10 Break Time

<Chair: **H. Ohgaki** (Kyoto Univ.)>

15:10 – 15:40 Development and application of polarization detection Compton camera

K. Shimazoe (Tokyo Univ.)

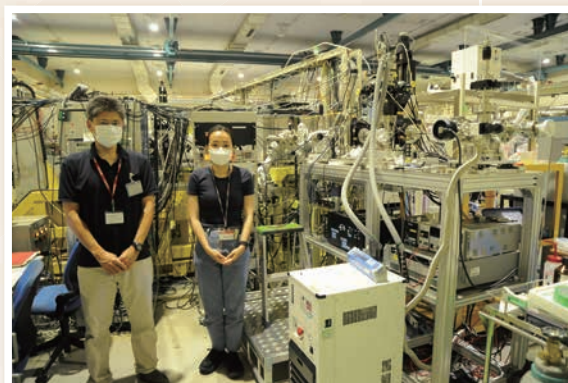
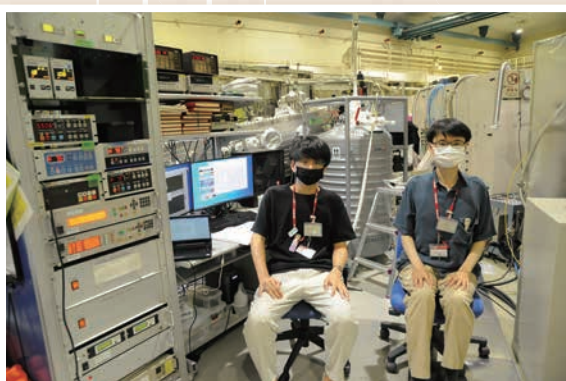
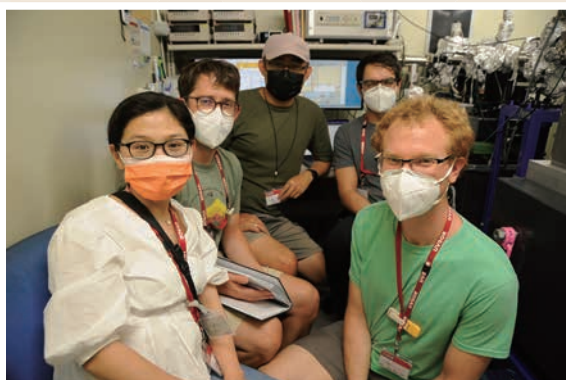
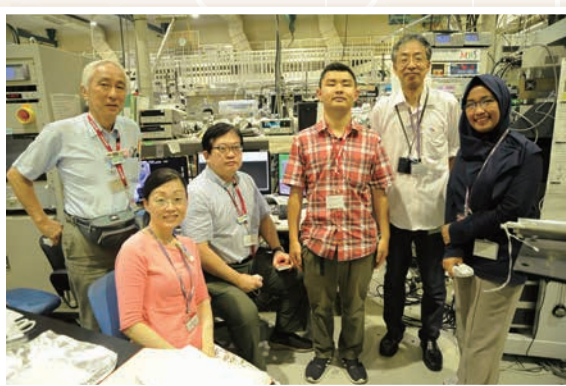
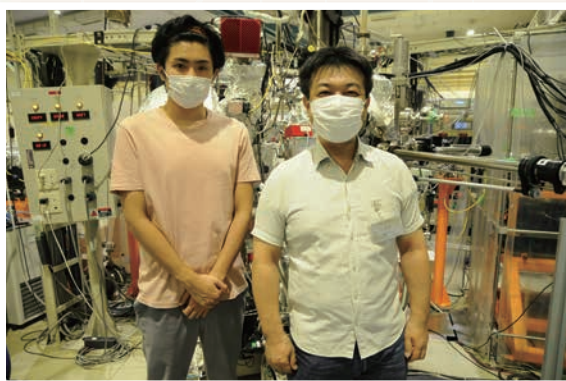
15:10 – 15:40 Fundamentals of positron annihilation method and expectations for pulsed gamma-ray induced positron generator

M. Fujinami (Chiba Univ.)

16:10 – 16:40 Probing the effect of impurity addition to luminescent materials by looking at atomic vacancies

M. Kitaura (Yamagata Univ.)

UVSOR User 10



UVSOR User 11

