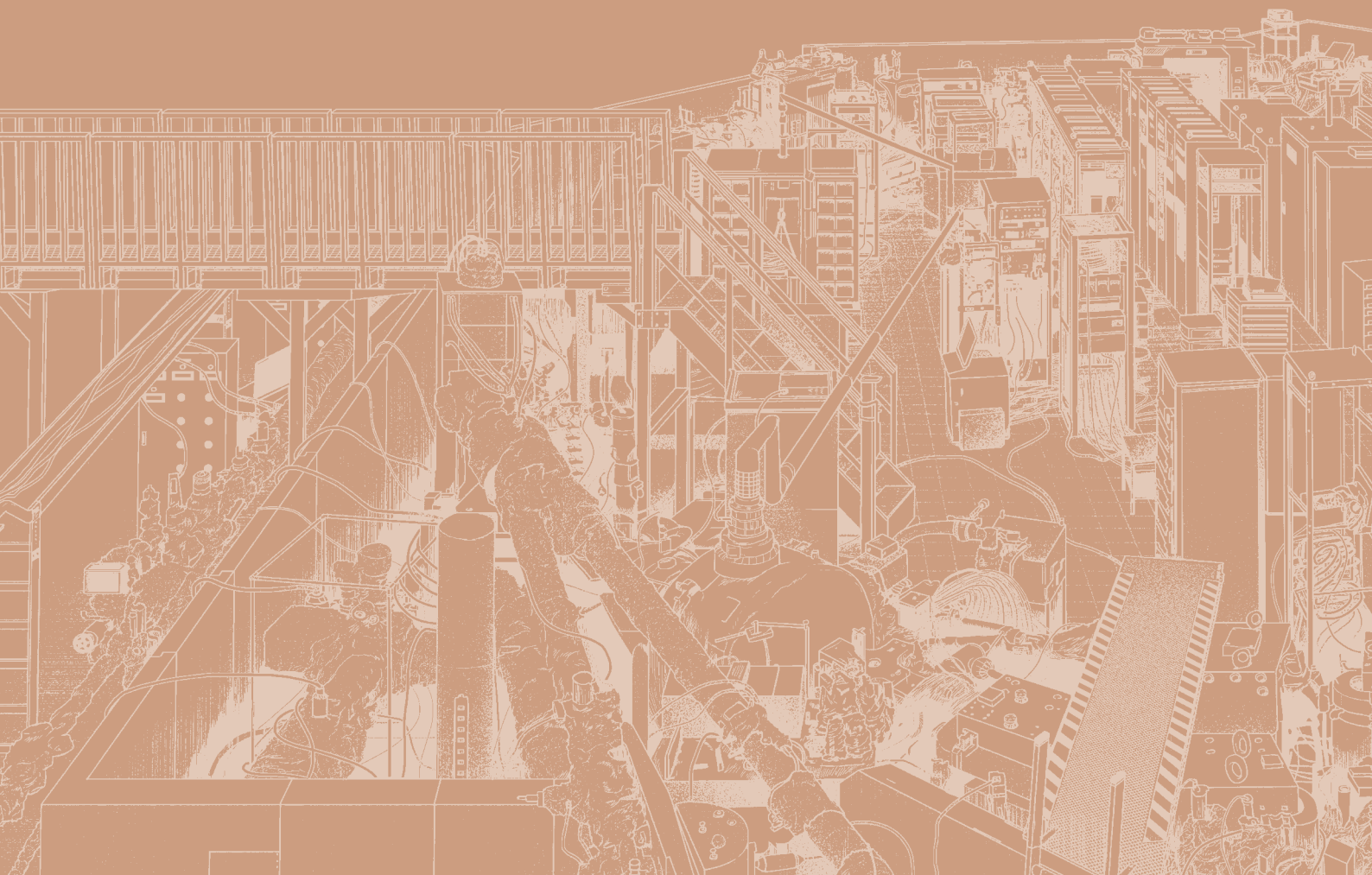
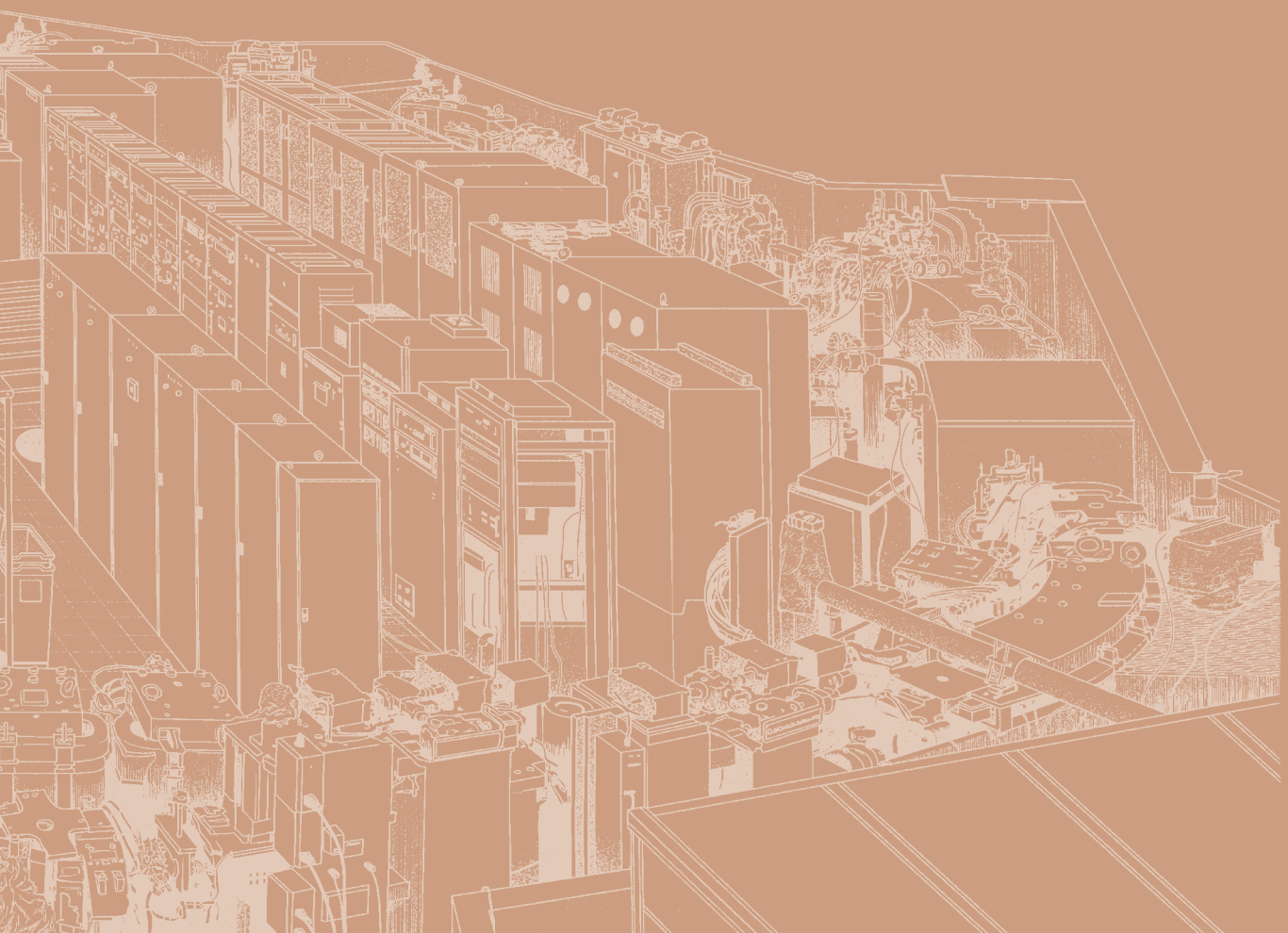
V

Workshops





UVSOR Symposium 2024

Date: November 5-6, 2024

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

November 5 (Tue.)

13:00 – 13:05	Opening remarks **T. Araki** (UVSOR)
13:05 – 13:25	Facility update **S. Kera** (UVSOR Director)
13:25 – 13:45	*In-situ* analysis of pure iron tensile specimens under stress using gamma-ray-induced positron annihilation lifetime spectroscopy **A. Yabuuchi** (Kyoto University)
13:45 – 14:05	Dual-beamline photoelectron momentum microscopy for valence orbital analysis **K. Hagiwara** (Institute for Molecular Science)
14:05 – 14:35	[Invited Lecture] Observation of electronic states in rare-earth monopnictide using angle-resolved photoemission spectroscopy **K. Kuroda** (Hiroshima University)
14:35 – 15:05	Break Time
15:05 – 15:45	Short Presentation for Poster Session
15:45 – 16:05	Recent results of Photoelectron Momentum Microscopy without and with Spin Resolution **S. Suga** (Osaka University)
16:05 – 16:35	[Special Lecture] Scanning Transmission Soft X-ray Spectro-Microscopy at the PolLux Beamline of the Swiss Light Source **Benjamin Watts** (Paul Scherrer Inst., Swiss Light Source)
16:35 – 17:00	Break Time
17:00 – 18:45	Poster Session
18:45 – 20:15	Opinion exchange meeting

November 6 (Wed.)

09:00 – 09:20	Photoionized plasma production experiments with VUV radiation in UVSOR-III **M. Kobayashi** (National Institute for Fusion Science)
09:20 – 09:50	[Invited Lecture] Development of novel radiation detectors consisting of novel scintillation materials with higher mission efficiency **S. Kurosawa** (Tohoku University)
09:50 – 10:10	Initial results of the world's first solar flare X-ray focusing imaging-spectroscopic observation performed by the sounding rocket experiment FOXSI-4 **N. Narukage** (National Astronomical Observatory of Japan)
10:10 – 10:25	Break Time

10:25 – 10:55	[Invited Lecture] The Structure Analysis of Soft Matter by Resonant Soft X-ray Scattering **Y. Takanishi** (Kyoto Prefectual University of Medicine)
10:55 – 11:15	Nanoscale surface and interface magnetism investigated at BL4B in UVSOR **T. Miyamachi** (Nagoya University)
11:15 – 12:15	UVSOR USERS' UNION meeting

Poster Session

[P01] Photoionized plasma production experiments with VUV radiation in UVSOR-III
M. Kobayashi (NIFS)

[P02] Status of Single Electron Storage Experiment at UVSOR-III in 2024
Y. Asai (Hiroshima Univ.)

[P03] Unraveling A site order in Bi-modified $SrTiO_3$ based relaxor feroelectrics by probing atomic vacancy
K. Kamoshida (Yamagata Univ.)

[P04] Experimental and theoretical studies of the interaction of ultraviolet optical vortices with biomolecules
K. Matsuo (Hiroshima Univ.)

[P05] Effect of Sb Doping on Mg_2Sn Crystals Studied by Gamma-induced-Positron Annihilation Lifetime Spectroscopy and Photoelectron Holography Experiments
T. Sumi (Yamagata Univ.)

[P06] Measurement of XUV Polarization by Zeeman Quantum Beat of Helium Atom
T. Kaneyasu (SAGA Light Source)

[P07] Electronic Chirality investigated by Photoelectron Circular Dichroism Measurements
H. Kohguchi (Hiroshima Univ.)

[P08] Development of Resonant Soft X-ray Scattering method for soft matter
H. Iwayama (IMS)

[P09] Electronic Structure Measurement of Thin Films of a Rubrene Derivative on Rubrene Single Crystals
T. Yamada (Tokyo Univ. of science)

[P10] Multi-orbital Hybridization in One-Dimensional Monolayer of DPh-BTBT
Y. Ono (Univ. Tsukuba)

[P11] Collective Auger decay of Xe 4d double core-hole states
Y. Hikosaka (Univ. of Toyama)

[P12] Organic-inorganic interfacial magnetic coupling between phenanthroline derivatives and Co nano-islands
K. Fujimoto (Nagoya Univ.)

[P13] Contribution of Co ions in CoPc to the Magnetic Properties of Pcs/γ'-Fe4N Organic-Inorganic Hybrid Thin Films
H. Ono (Nagoya Univ.)

[P14] Structural, electronic and magnetic properties of monatomic layer cobalt nitride grown on Cu(001)
A. Iwai (Nagoya Univ.)

[P15] Thickness dependence of structural, electronic and magnetic properties of Ni thin films on Cu(001)
N. Okamura (Nagoya Univ.)

[P16] Two-dimensional heavy fermion in a monoatomic layer surface alloy CeCux/Cu(111)-(2×2)
H. Yamaguchi (Osaka Univ.)

[P17] Observation of Topological Surface States in Superconducting type-2 Dirac semimetal PdSeTe
Yogendra Kumar (Hiroshima Univ.)

[P18] ARPES investigation of thermoelectric properties in heavy fermion systems
D. Goto (Toyota TI)

[P19] Polarization-dependent angle-resolved photoemission spectroscopy of MoAlB

K. Kawano (Nagoya Univ.)

[P20] Comprehensive Study of electronic States Induced by Quantum Charge Fluctuations in Electron-Doped High-Tc Cuprate Superconductors

H. Yamaguchi (Hiroshima Univ.)

[P21] Enantio-differentiation of chiral crystals by angle-resolved photoemission circular dichroism

K. Fukutani (IMS)

[P22] Electronic state of bulk and monolayer $TiSe_2$ studied by high-resolution ARPES

M. Nishigami (Tohoku Univ.)

[P23] VR equipment for presenting the 3D electronic structure

Shin-ichiro Tanaka (Osaka Univ.)

[P24] Imaging the domain structure of single-crystal Ir(111) thin films by photoelectron momentum microscopy

E. Hashimoto (Aoyama Gakuin Univ.)

[P25] Observation of Rashba splitting and Weyl cones in inversion symmetry broken material $PtBi_2$

Y. Morita (Tohoku Univ.)

[P26] Band structure of electron doped MoS_2

Y. Hasegawa (Univ. of Tsukuba)

[P27] Electronic and magnetic properties of altermagnetic MnTe films and its termination dependence

R. Akiyama (Institute of Science Tokyo)

[P28] Angle-resolved photoemission spectroscopy of garnet-type solid electrolytes $Li_{6.5}La_3Zr_{1.5}Ta_{0.5}O_{12}$ bulk single crystal

K. Masuda (Nagoya Univ.)

[P29] Experimental measurement of valence band dispersion in high-mobility organic semiconductor crystals fabricated by solution process

T. Tasaki (Tokyo Univ. of Science)

[P30] Fabrication and electronic structure observation of a monoatomin-layer material Yb/Si(111)

R. Ichikawa (Osaka Univ.)

[P31] Substrate dependence of the electronic structure of Si(111)($\sqrt{3}\times\sqrt{3}$)-Sn

H. Nishimichi (Institute of Science Tokyo)

[P32] Observation of electronic structures in nodal line semimetal KAlGe by angle-resolved photoemission spectroscopy

T. Nishida (Univ. of Tokyo)

[P33] Uniaxial strain effects on the electronic structure of 1T-TaS_2: micro-ARPES study

S. Suzuki (Tohoku Univ.)

[P34] Infrared absorption spectroscopy for crystals grown by a solution process of pentacene derivative crystals

Y. Baba (Tokyo Univ. of Science)

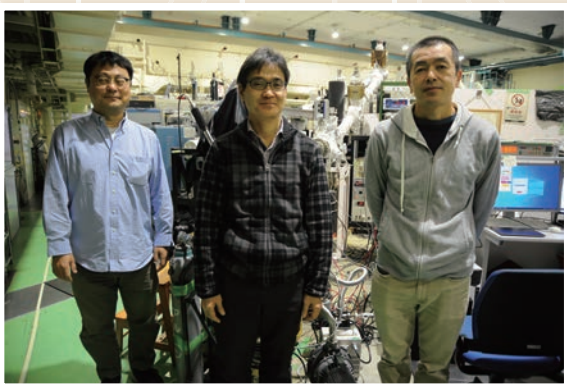
[P35] Development of Time-Resolved Electron Energy Loss Spectroscopy

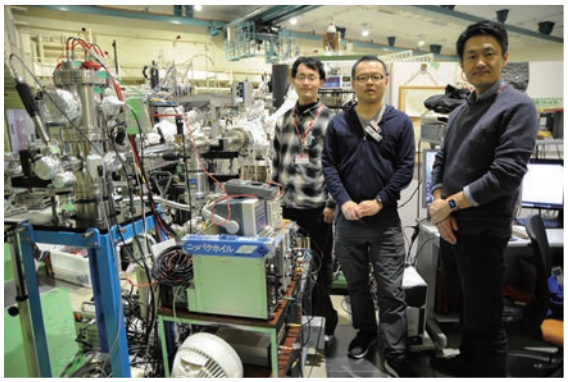
K. Nishihara (Osaka Univ.)

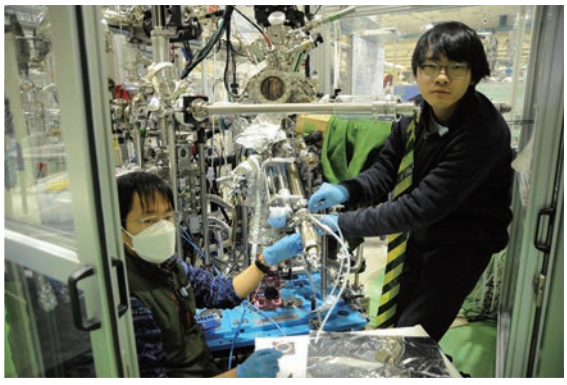
[P36] Developement of Atom-Holography Microscope

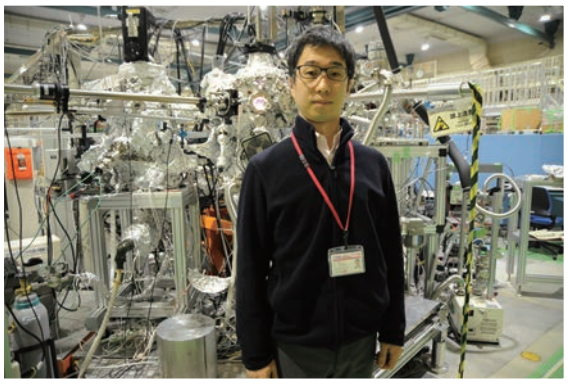
H. Daimon (IMS)

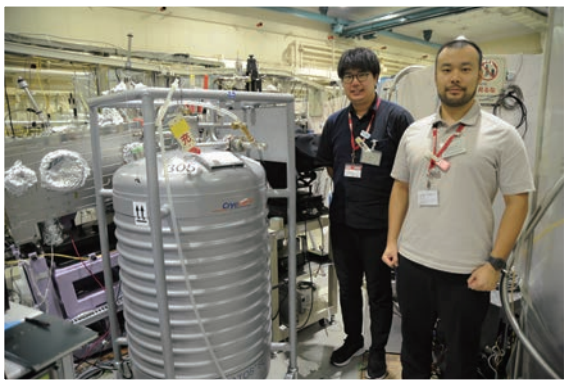
UVSOR User 17

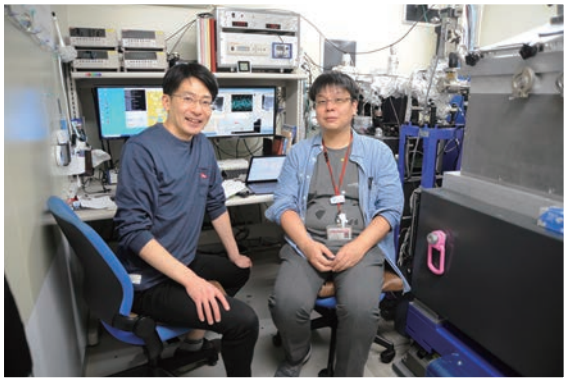












UVSOR User 18