

The background is a solid light brown color. It features a large, faint, concentric circular pattern on the right side, with a dashed line and a dotted line within it. Several diagonal, semi-transparent bands of a slightly darker brown color sweep across the image from the top left towards the bottom right. At the bottom of the image, there is a grid of small, light brown dots.

V

Workshops



## UVSOR Symposium 2021

Date: November 5, 2021

Place: Zoom Conference

### November 5<sup>th</sup> (Fri.)

10:35 – 10:40      Opening Remark

<Session 1, Chair: **T. Ohgashi** (UVSOR)>

10:40 – 11:00      Development of Multilayer Coated Mirror for the Next Earth Mission

**L. Huiyang** (Univ. of Tokyo)

11:00 – 11:20      Current-Induced Insulator-to-Metal Transition of SmS

**S. Tatsukawa** (Osaka Univ.)

11:20 – 11:40      Title of the Presentation (gothic, 11pt)

**K. Yamanoi** (Osaka Univ.)

11:40 – 12:00      Development of Reflection XMCD Measurement Setup for the Investigation of Inner Structures of Magnetic Thin Films at UVSOR BL4B

**K. Yamamoto** (IMS)

12:00 – 13:00      Lunch Break

<Session 2, Chair: **K. Tanaka** (UVSOR)>

13:00 – 13:20      Electronic States of Novel Dirac Semimetals Studied by High-Resolution ARPES

**K. Nakayama** (Tohoku Univ.)

13:20 – 13:40      The Topological Electronic Structure of the Interface Between  $\alpha$ -Sn and InSb

**T. Nakaya** (Osaka Univ.)

13:40 – 14:00      The Photoelectron Momentum Mapping of Highly Oriented Organic Thin Films

**M. Iwasawa** (Univ. of Tsukuba)

14:00 – 14:20      Measurement of the Electronic State of  $\eta$ -Mo<sub>4</sub>O<sub>11</sub> Using a Momentum Microscope

**T. Kobayashi** (Osaka Univ.)

14:20 – 14:30      Break

<Session 3, Chair: **Y. Taira** (UVSOR)>

14:30 – 14:50      LCS Gamma-Ray Beams Utilization for the Isotope Selective NRF-CT Imaging in UVSOR-III

**K. Ali** (Kyoto Univ.)

14:50 – 15:10      Charge Distribution in Delithiated LiCoO<sub>2</sub> Particles Visualized by Soft X-Ray Spectromicroscopy

**W. Zhang** (Univ. of Tokyo)

15:10 – 15:30      Mesoscopic Structure Analysis by Resonant Soft X-Ray Scattering

**H. Iwayama** (IMS)

15:30 – 15:50      Time-Resolved Spectroscopy of Fast Scintillators with VUV Excitation

**M. Koshimizu** (Tohoku Univ.)

16:00 – 17:00      Discussion and Closing Remark

**S. Kimura** (Osaka Univ.)

17:00 – 19:00 Poster Session

## Poster Session

- P01 Photoelectron Wave Packet Interference Using a Tandem Undulator  
**T. Kaneyasu** (SAGA- LS)
- P02 Photon Counting Experiments of Young's Double-Slit Interference Using Undulator Vortex Radiation  
**S. Wada** (Hiroshima Univ.)
- P03 Energy-Dependence of Photoelectron Circular Dichroism of Chiral Molecules  
**H. Kohguchi** (Hiroshima Univ.)
- P04 Photoluminescence Properties and luminescence Mechanism of Cs<sub>2</sub>Hf(Br, X)<sub>6</sub>  
**C. Fujiwara** (Tohoku Univ.)
- P05 Operando XAFS Observation of Water Splitting Electrocatalysts at UVSOR BL3U  
**M. Yoshida** (Yamaguchi Univ.)
- P06 Elucidation of the Function of Carbonate Ions on the Cobalt Carbonate Catalysts Using Operando Observations  
**K. Harada** (Yamaguchi Univ.)
- P07 Operando Observation of Active Site for the Nickel Carbonate Water Splitting Catalyst Induced by the Electrolyte Adsorption Ions  
**Z. Li** (Yamaguchi Univ.)
- P08 The Structure Analysis of Soft Matter by Resonant Soft X-Ray Scattering  
**Y. Takanishi** (Kyoto Univ.)
- P09 Solvent-Induced Transition of Polymorphological Chiral Supermolecular Architectures in a Bent-Core Liquid Crystal Dimer  
**F. Araoka** (RIKEN)
- P10 XAS Measurements of Sugar Molecules in Liquid Phase: Interaction Between Sugar Molecules and Solvent  
**D. Akazawa** (Univ. of Tokyo)
- P11 Intermolecular Interactions of the Acetone-Water Binary System Studied by Soft X-Ray Absorption Spectroscopy  
**C. Sugahara** (Hiroshima Univ.)
- P12 Efficient Multielectron-Ion Coincidence Measurement with a Magnetic Bottle Electron Spectrometer  
**Y. Hikosaka** (Toyama Univ.)
- P13 Efforts to Reduce the Photon Energy Drift at BL5B  
**H. Zen** (Kyoto Univ.)
- P14 Local Valence Transition of SmS Induced by Alkali Metal Adsorption  
**T. Nakamura** (Osaka univ.)
- P15 Angle-Resolved Photoemission Study of Solid Electrolytes Li<sub>x</sub>La<sub>(1-x)/3</sub>NbO<sub>3</sub> Bulk Single Crystal  
**R. Yamamoto** (Nagoya Univ.)

- P16 Development of Photocathodes for Accelerator Beam Source by Coating with Atomically Thin Two-Dimensional Nanomaterials  
**K. Kouyama** (Nagoya Univ.)
- P17 Angle-Resolved Photoemission Study of  $\text{TPP}[\text{FePc}(\text{CN})_2]_2$   
**T. Hoshina** (Nagoya Univ.)
- P18 Operando Measurements of THz, Infrared and Visible Reflectance Spectra of SmS Under Current and Light Irradiation  
**H. Watanabe** (Osaka Univ.)
- P19 Momentum-Resolved Resonant Photoemission Spectroscopy of  $\text{TiSe}_2$   
**S. Tanaka** (Osaka Univ.)
- P20 Resonant Photoemission Spectroscopy of Highly Oriented Coronene Monolayer Using Photoelectron Momentum Microscope  
**Y. Hasegawa** (Ritsumeikan Univ.)
- P21 Measurement of Complex Reflective Index of Diamond Substrate  
**M. Horiba** (Fukui Univ.)
- P22 Impact of Weak Interaction on the Electronic Structure at the Pentacene/Graphite Interface  
**Y. Hasegawa** (Ritsumeikan Univ.)
- P23 Angle-Resolved Photoemission Study of Antiferromagnetic *i* - MAX Phase Compound  $(\text{Mo}_{2/3}\text{Dy}_{1/3})_2\text{AlC}$   
**T. Sugimoto** (Nagoya Univ.)
- P24 Investigations on the Band Structures and Anisotropic Couplings of Electrons with Molecular Vibrations in Organic Single Crystal Rubrene  
**K. Fukutani** (IMS)
- P25 Lattice Design Study of UVSOR-IV  
**E. Salehi** (IMS)

## The 4th workshop on prospects and construction plan of the next generation synchrotron radiation facility

Date: November 4, 2021

Place: Zoom Conference

### November 4<sup>th</sup> (Thu.)

9:30 – 9:35	Greetings from Guest <b>Section Chief from MEXT, A. Watanabe</b>
9:35 – 10:15	Opening Remark <b>UVSOR Director, S. Kera</b>
10:15 – 10:20	Break
10:20 – 12:00	<b>Beamline Conception ①</b> Present Status and Future Plan of Soft X-Ray Absorption and Scattering at BL3U <b>M. Nagasaka</b> (IMS) Future Prospects for Soft X-Ray Absorption and Scattering <b>J. Miyawaki</b> (QST) Current Status and Prospects of Infrared Microscopy Using Infrared Synchrotron Radiation <b>Y. Ikemoto</b> (JASRI) Current Status and Development of Irradiation (BL1U) <b>Y. Taira</b> (UVSOR) Prospects of Irradiation and FEL <b>I. Matsuda</b> (Univ. of Tokyo)
12:00 – 13:30	Lunch Break
13:30 – 15:50	<b>Beamline Conception ②</b> Present Status and Future of VUV Spectroscopy in UVSOR <b>M. Kitaura</b> (Yamagata Univ.) Present and Future of Photoelectron Momentum Microscope + Spin <b>F. Matsui</b> (UVSOR) Future Prospect of Spin-Resolved Photoemission Electron Microscopy and Spectroscopy <b>K. Yaji</b> (NIMS) Current Status and Developments of ARPES at UVSOR <b>K. Tanaka</b> (UVSOR) Future of ARPES: Putting More Information on ARPES <b>K. Kuroda</b> (Hiroshima Univ.) Current Status and Future of Soft X-Ray Imaging <b>T. Ohigashi</b> (UVSOR) Future of Soft X-Ray Imaging <b>Y. Takahashi</b> (Tohoku Univ.)
15:50 – 16:00	Break
16:00 – 16:20	Latest Results from Design Study on New Light Source <b>M. Katoh</b> (UVSOR)

16:20 – 17:00      Panel Discussion  
                         “Requests for the Construction Plan”  
(Panelist : **J. Okabayashi, M. Katoh, M. Kitauro, S. Kimura, Y. Hikosaka and  
H. Yamane**)

## 2021 IMS Open House Event

IMS is open to the public once every three years in rotation with the other two Okazaki institutes of National Institutes of Natural Sciences. It was held online on October 23, 2021.

Details can be seen in the following web site:

<https://www.ims.ac.jp/koukai2021/>.



The livestreamed video can be seen at

<https://www.youtube.com/watch?v=24JmaV8Fbgo>,

which spans about 6 hours, including a molecular science forum and virtual tours of facilities and laboratories.



For the UVSOR tour (which is included in the above video),

see <https://www.youtube.com/watch?v=WqIFnMnKBTc&t=360s>.



The presentation of the forum was given by Dr. Takuji Ohigashi about Hayabusa2 returned sample analysis:

see

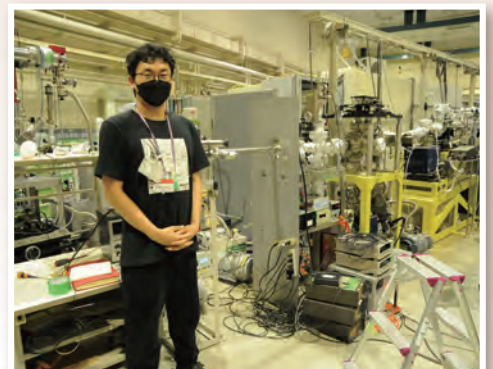
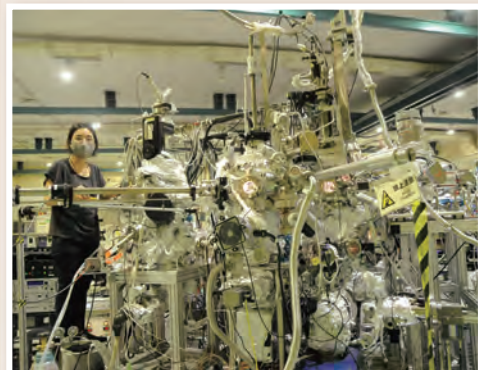
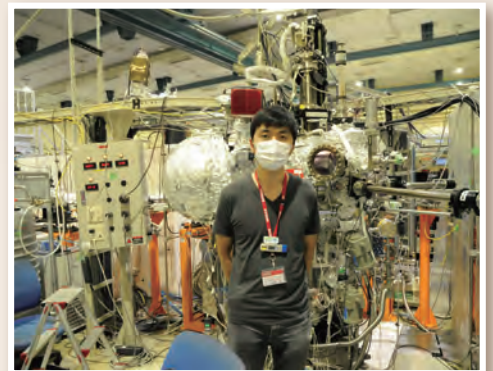
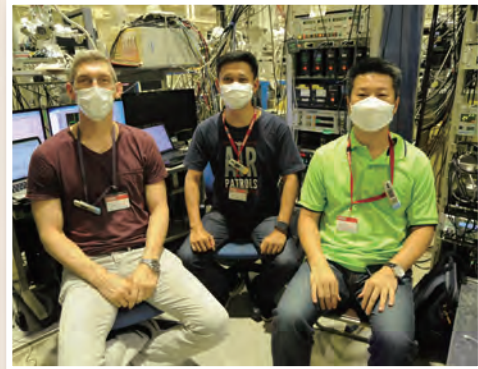
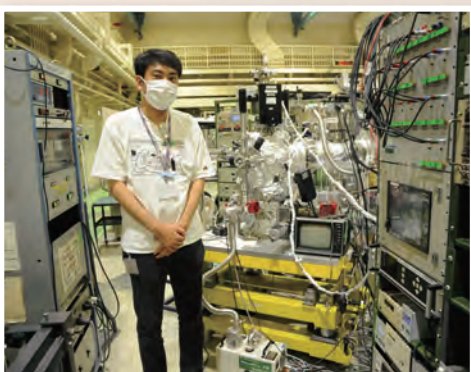
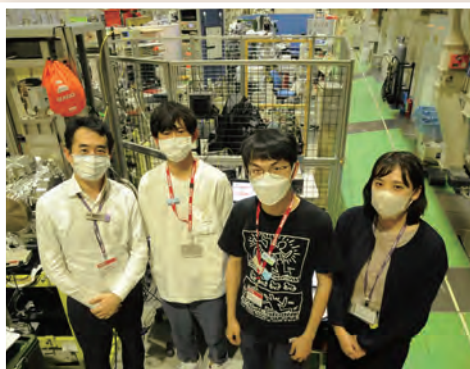
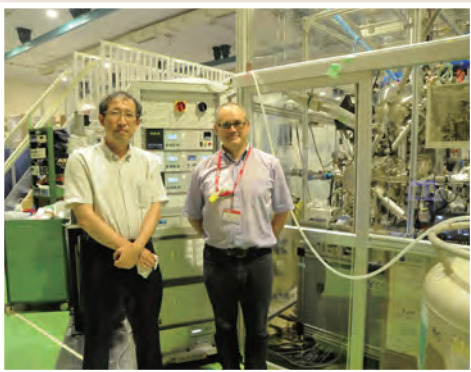
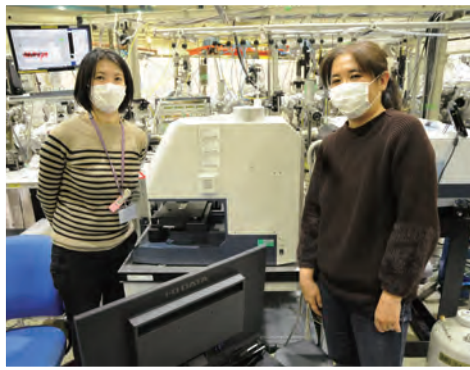
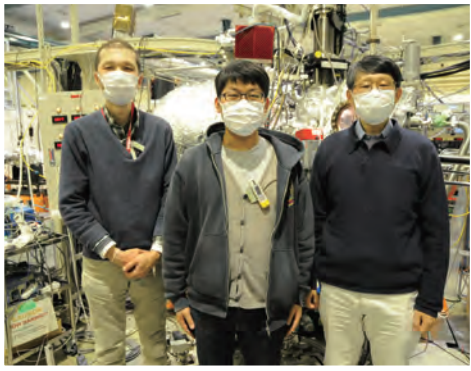
<https://www.ims.ac.jp/koukai2021/info/#micro>

and

<https://www.youtube.com/watch?v=AnchMBTwHBw>.



## UVSOR User 9







Editorial Board : H. Matsuda K. Tanaka M. Sakai M. Ishihara

**Institute for Molecular Science  
National Institutes of Natural Sciences  
Okazaki 444-8585, Japan**

**Tel: +81-564-55-7402**

**Fax: +81-564-54-7079**

**<http://www.uvsor.ims.ac.jp>**



**ISSN 0911-5730**