

Appendices

Organization

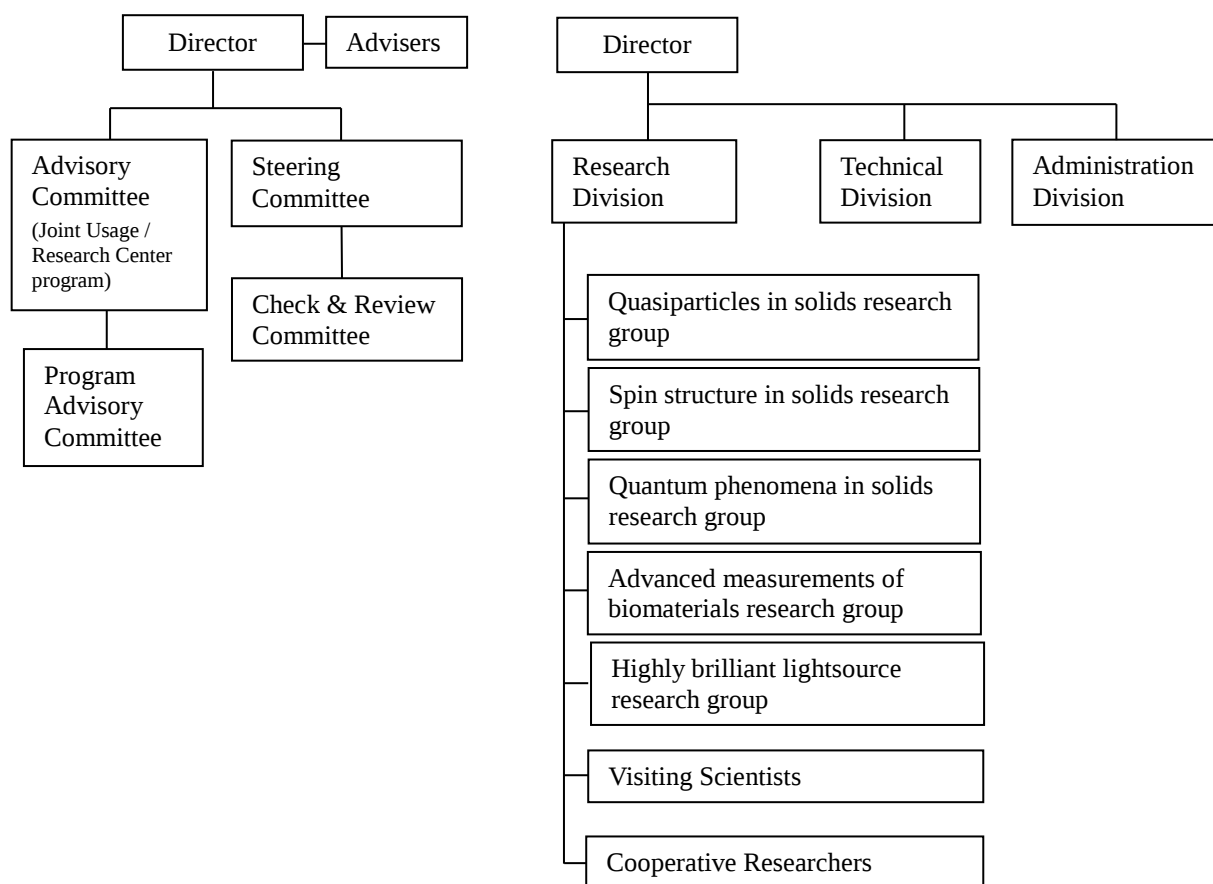


Fig. 1: Organization chart of HiSOR

Director

SHIMADA, Kenya

Hiroshima Synchrotron Radiation Center, HiSOR

Adviser

OHTA, Toshiaki

Ritsumeikan University

Emeritus Professor, The University of Tokyo

SATO, Shigeru

Emeritus Professor, Tohoku University

KAKIZAKI, Akito

Tsukuba Institute of Science and Technology

Emeritus Professor, The University of Tokyo

TANIGUCHI, Masaki

Emeritus Professor, Hiroshima University

Staff Members

SHIMADA, Kenya	Director, Professor
OKUDA, Taichi	Vice Director, Professor
KIMURA, Akio	Vice Director, Professor (Graduate School of Science)
NAMATAME, Hirofumi	Professor
KATOH, Masahiro	Professor
SATO, Hitoshi	Associate Professor
SAWADA, Masahiro	Associate Professor
MATSUO, Koichi	Associate Professor
MIYAMOTO, Kouji	Associate Professor
SHIMADA, Miho	Associate Professor (Special Appointment)
SCHWIER, Eike Fabian	Assistant Professor
IZUMI, Yudai	Assistant Professor
Shiv Kumar	Assistant Professor
GOTO, Kiminori	Engineer
ARITA, Masashi	Engineer
TANIGUCHI, Masaki	Visiting Professor
HORI, Toshitada	Visiting Professor
UEDA, Yoshifumi	Visiting Professor
INO, Akihiro	Visiting Professor
KAWASE, Keigo	Visiting Associate Professor
OONISHI, Sumito	Supervisor, Academic Support Group
SHINNO, Naoko	Secretary
SHIMOKUBO, Harumi	Secretary

Steering Committee

SHIMADA, Kenya*	HiSOR
KIMURA, Akio	HiSOR, Graduate School of Science
OKUDA, Taichi	HiSOR
NAMATAME, Hirofumi	HiSOR
KATOH, Masahiro	HiSOR
SATO, Hitoshi	HiSOR
SAWADA, Masahiro	HiSOR
MATSUO, Koichi	HiSOR
MIYAMOTO, Kouji	Associate Professor
INUI, Masanori	Graduate School of Integrated Arts and Sciences
KUROIWA, Yoshihiro	Graduate School of Science
KURIKI, Masao	Graduate School of Advanced Science of Matter
UENO, Satoshi	Graduate School of Biosphere Science

HAYAKAWA, Shinjiro	Graduate School of Engineering
SEKIYAMA, Akira	Osaka University
MATODA, Yasuyuki	Yasuda Women's University
YOKOYAMA, Toshihiko	Institute for Molecular Science
KINOSHITA, Toyohiko	Japan Synchrotron Radiation Research Institute

**Chair Person*

Check & Review Committee

SATO, Hitoshi*	HiSOR
SHIMADA, Kenya	HiSOR
OKUDA, Taichi	HiSOR
NAMATAME, Hirofumi	HiSOR
KATOH, Masahiro	HiSOR
SAWADA, Masahiro	HiSOR
MATSUO, Koichi	HiSOR
MIYAMOTO, Kouji	Associate Professor
SASAMOTO, Takashi	Academic Support Group
OONISHI, Sumito	Academic Support Group

**Chair Person*

Advisory Committee

NAMATAME, Hirofumi*	HiSOR
SHIMADA, Kenya	HiSOR
OKUDA, Taichi	HiSOR
KIMURA, Akio	HiSOR, Graduate School of Science
KATOH, Masahiro	HiSOR
SATO, Hitoshi	HiSOR
SAWADA, Masahiro	HiSOR
MATSUO, Koichi	HiSOR
MIYAMOTO, Kouji	Associate Professor
MORIYOSHI, Chikako	Graduate School of Science
ABUKAWA, Tadashi	Tohoku University
MATSUDA, Iwao	The University of Tokyo
ISHIZAKA, Kyoko	The University of Tokyo
SODA, Kazuo	Nagoya University
NAMBA, Hidetoshi	Ritsumeikan University
KIMURA, Shin-ichi	Osaka University
YOKOYA, Takayoshi	Okayama University
TOBIYAMA, Makoto	High Energy Accelerator Research Organization

AIURA, Yoshihiro
SENO, Yoshiki
QIAO, Shan

National Institute of Advanced Industrial Science and Technology
Kyushu Synchrotron Light Research Center
Shanghai Institute of Applied Physics, Chinese Academy of
Sciences, China

**Chair Person*

Program Advisory Committee

OKUDA, Taichi*	HiSOR
SHIMADA, Kenya	HiSOR
KIMURA, Akio	HiSOR, Graduate School of Science
SATO, Hitoshi	HiSOR
SAWADA, Masahiro	HiSOR
MATSUO, Koichi	HiSOR
HAYAKAWA, Shinjiro	Graduate School of Engineering
SAITOH, Tomohiko	Tokyo University of Science
AMEMIYA, Kenta	High Energy Accelerator Research Organization
SAKAMOTO, Kazuyuki	Chiba University
YAGI, Shinya	Nagoya University
FUJIMORI, Shin-Ichi	Japan Atomic Energy Agency
MIZOKAWA, Takashi	Waseda University
MAKI, Yasuyuki	Kyusyu University

**Chair Person*

Visiting Scientists

HORI, Toshitada	Emeritus Professor, Hiroshima University
UEDA, Yoshifumi	Emeritus Professor, National Institute of Technology Kure College
KATO, Ryuko	High Energy Accelerator Research Organization
AIURA, Yoshihiro	Advanced Industrial Science and Technology
KAWASE, Keigo	National Institutes for Quantum and Radiological Science and Technology
DONATH, Markus	Westfälische Wilhelms Universität
SCHÖNHENSE, Gerd	Johannes Gutenberg University Mainz
QIAO, Shan	Shanghai Institute of Applied Physics, Chinese Academy of Sciences
ZHOU, Xingjiang	Institute of Physics, Chinese Academy of Sciences
SOKOLOV, Nikolai	Ioffe Physical Technical Institute, Russian Academy of Sciences

Cooperative Research Staffs (Faculty Members)

INUI, Masanori	Graduate School of Integrated Arts and Sciences
KUROIWA, Yoshihiro	Graduate School of Science
MORIYOSHI, Chikako	Graduate School of Science
YABUTA, Hikaru	Graduate School of Science
SEKITANI, Tetsuji	Graduate School of Science
OKADA, Kazumasa	Graduate School of Science
NAKAJIMA, Nobuo	Graduate School of Science
IWASAWA, Hideaki	Graduate School of Science
YOSHIDA, Hiroaki	Graduate School of Science
WADA, Shin-ichi	Graduate School of Science
ISHIMATSU, Naoki	Graduate School of Science
TANAKA, Arata	Graduate School of Advanced Sciences of Matter
HAYAKAWA, Shinjiro	Graduate School of Engineering

Cooperative Researchers (Visiting Researchers)

SAKAMOTO, Kazuyuki	Osaka University
MATSUDA, Iwao	The University of Tokyo
MIMURA, Kojiro	Osaka Prefecture University
YOKOYA, Takayoshi	Okayama University
MURAOKA, Yuji	Okayama University
WAKITA, Takanori	Okayama University
YAGI, Shinya	Nagoya University
HAPPO, Naohisa	Hiroshima City University
MATOKA, Yasuyuki	Yasuda Women's University
SENBA, Shinya	Ube National College of Technology
FUJIMORI, Shin-ichi	Japan Atomic Energy Agency
TANIDA, Hajime	Japan Atomic Energy Agency
SUMIDA, Hirosuke	Technical Research Center, Mazda Motor Co.
KODA, Yuki	Technical Research Center, Mazda Motor Co.

List of publications

1. N. Tsunoji, H. Nishida, Y. Ide, K. Komaguchi, S. Hayakawa, Y. Yagenji, M. Sadakane, T. Sano, "Photocatalytic activation of C-H bonds by spatially controlled chlorine and titanium on the silicate layer", *ACS Catalysis* **9**, 5742 (2019).
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3. H. Shiono, S. Ishihara, K. Mimura, H. Sato, E. F. Schwier, K. Shimada, M. Taniguchi, S. Ideta, K. Tanaka, T. Zhuang, K. T. Matsumoto, K. Hiraoka, H. Anzai, "Temperature dependence of the Kondo resonance peak in photoemission spectra of YbCdCu₄", *AIP Conf. Proc.* **2054**, 040013 (2019).
4. E. F. Schwier, H. Takita, W. Mansur, A. Ino, M. Hoesch, M. D. Watson, A. A. Haghighirad, K. Shimada, "Applications for ultimate spatial resolution in LASER based μ -ARPES : A FeSe case study", *AIP Conf. Proc.* **2054**, 040017 (2019).
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10. V. E. Bursian, A. K. Kaveev, A. M. Korovin, B. B. Krichevtsov, L. V. Lutsev, S. M. Suturin, M. Sawada, N. S. Sokolov, "Bulk-like dynamic magnetic properties of nickel ferrite epitaxial thin films grown on SrTiO₃(001) substrates", *IEEE Magnetics Letters*

10, 6104505 (2019).

11. P. K. Gupta, S. Ghosh, S. Kumar, A. Pal, P. Singh, M. Alam, A. Singh, S. Roy, R. Singh, B. P. Singh, N. N. Kumar, E. F. Schwier, M. Sawada, T. Matsumura, K. Shimada, H. J. Lin, Y. Y. Chim, A. K. Ghosh, S. Chatterjee, “Room temperature exchange bias in antiferromagnetic composite $\text{BiFeO}_3\text{-TbMnO}_3$ ”, *J. Appl. Phys.* **126**, 243903 (2019).
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- Chulkov, “Prediction and observation of an antiferromagnetic topological insulator”, *Nature* **576**, 416 (2019).
19. P. K. Das, D. Di Sante, I. Vobornik, J. Fujii, T. Okuda, E. Bruyer, A. Gyenis, B. E. Feldman, J. Tao, R. Ciancio, G. Rossi, M. N. Ali, S. Picozzi, A. Yadzani, G. Panaccione, R. J. Cava, “Layer-dependent quantum cooperation of electron and hole states in the anomalous semimetal WTe₂ (vol 7, 11355, 2016)”, *Nature Commun.* **10**, 648 (2019).
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 22. Y. Hikosaka, T. Kaneyasu, M. Fujimoto, H. Iwayama, M. Katoh, “Coherent control in the extreme ultraviolet and attosecond regime by synchrotron radiation”, *Nature Commun.* **10**, 4988 (2019).
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 27. T. Kono, M. Kakoki, T. Yoshikawa, X. Wang, K. Sumida, K. Miyamoto, T. Muro, Y. Takeda, Y. Saitoh, K. Goto, Y. Sakuraba, K. Hono, A. Kimura, “Element-specific

- density of states of Co_2MnGe revealed by resonant photoelectron spectroscopy”, *Phys. Rev. B* **100**, 165120 (2019).
28. X. Wang, J. Chen, M. Zheng, T. V. Menshchikova, I. P. Rusinov, E. F. Schwier, F. Orbanic, S. Wu, K. Kimura, “Disentangling orbital and spin textures of surface-derived states in non-symmorphic semimetal HfSiS ”, *Phys. Rev. B* **100**, 205140 (2019).
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 30. Y. –J. Hao, P. Liu, Y. Feng, X. –M. Ma, E. F. Schwier, M. Arita, S. Kumar, C. Hum R. Lu, M. Zeng, Y. Wang, Z. Hao, H. –Y. Sun, K. Zhang, J. Mei, N. Ni, L. Wu, K. Shimada, C. Chen, Q. Liu, C. Liu, “Gapless surface Dirac cone in antiferromagnetic topological insulator MnBi_2Te_4 ”, *Phys. Rev. X* **9**, 041038 (2019).
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- by synchrotron radiation circular dichroism spectroscopy: a new piece of the DNA-damage-response puzzle”, *Quantum Beam Sci.* **3**, 23 (2019).
39. K. Nishikubo, Y. Izumi, Y. Matsumoto, K. Fujii, K. Matsuo, A. Yokoya, “Structural analysis of DNA repair protein XRCC4 applying circular dichroism in an aqueous solution”, *Radiat. Prot. Dosim.* **183**, 36 (2019).
 40. K. Deng, M. Z. Yan, C. P. Yu, J. H. Li, X. Zhou, K. N. Zhang, Y. X. Zhao, K. Miyamoto, T. Okuda, W. H. Duan, Y. Wu, X. Y. Zhong, S. Y. Zhou, “Crossover from 2D metal to 3D Dirac semimetal in metallic PtTe₂ films with local Rashba effect”, *Sci. Bull.* **64**, 1044 (2019).
 41. H. Iwasawa, H. Takita, K. Goto, W. Mansuer, T. Miyashita, E. F. Schwier, A. Ino, K. Shimada, Y. Aiura, “Accurate and efficient data acquisition methods for high-resolution angle-resolved photoemission microscopy”, *Sci. Rep.* **8**, 17431 (2019).
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List of Accepted Research Proposals

- 19AG001 Kyunghoi Kim (Pukyong National University)
A study on mechanism of hydrogen sulfide and phosphate removal with oyster shells by XAFS analysis
- 19AG002 Hitoshi Yamaoka (RIKEN SPring-8 Center)
Angle-resolved photoelectron spectroscopy study on (Ce, La)Ru₂Al₁₀ systems
- 19AG003 Satoshi Asaoka (Kobe University Research Center for Inland Seas)
Chemical composition of calcium phosphate in fertilization pellets produced from methane fermented digestive liquid
- 19AG004 Chaoyu Chen (Southern University of Science and Technology)
Electronic structure of elementary excitation in quantum spin liquid
- 19AG005 Baojie Feng (Institute of Physics, Chinese Academy of Sciences)
High-resolution ARPES measurements of honeycomb borophene
- 19AG006 Ya Feng (Ningbo Institute of Industrial Technology, Chinese Academy of Sciences)
ARPES study of silicene
- 19AG007 Ya Feng (Ningbo Institute of Industrial Technology, Chinese Academy of Sciences)
ARPES study of a Dirac semimetal candidate
- 19AG008 Ying Jin (National Center for Materials Service Safety, University of Science and Technology Beijing)
Ex-situ/in-situ soft x-ray absorption investigation towards passivation behavior of Ti
- 19AG009 Shaolong He (Ningbo Institute of Industrial Technology, Chinese Academy of Sciences)
ARPES study of a new type-II Dirac semimetal candidate NiTe₂
- 19AG011 Jun-ichi Takahashi (Graduate School of Engineering, Yokohama National University)
Vacuum-ultraviolet circular dichroism analysis of optical activity emergence in amino acid thin films by circularly-polarized light irradiation
- 19AG012 Kenta Kuroda (Institute for Solid State Physics, University of Tokyo)
Antiferromagnetic electronic-structures under devil's staircase in cerium monopnictide
- 19AG013 Kaname Kanai (Faculty of Science and Technology, Tokyo University of Science)
Elucidation of electronic structure of organometallic layers grown on metal surface
- 19AG014 Chang Liu (Southern University of Science and Technology)
ARPES study on Zintl phase Ba₃Cd₂As₄ - A proposed topological crystalline insulator protected by C₂ rotational symmetry
- 19AG015 Chang Liu (Southern University of Science and Technology)
Spin-resolved ARPES measurements on the single-spin Weyl bands in kagome ferromagnet Co₃Sn₂S₂
- 19AG016 Andrey Kamilevich Kaveev (Ioffe Physical-Technical Institute of the Russian Academy of Sciences)
ARPES studies of the polarization-dependent features of the electronic structure of ultrathin ferromagnetic films grown on the PST and BSTS topological insulators for spintronic applications
- 19AG017 Masahiro Sawada (Hiroshima Synchrotron Radiation Center, Hiroshima University)

- Magnetic properties of magnetic monatomic layers intercalated under monolayer hexagonal boron nitride
- 19AG018 Masahiro Sawada (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Interlayer magnetic coupling between transition metal layers through monolayer hexagonal boron nitride
- 19AG019 Masahiro Sawada (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Magnetic properties and structures of magnetic surface clusters
- 19AG020 Kazuhiro Hono (Graduate School of Pure and Applied Science, University of Tsukuba)
Synchrotron radiation spin-resolved ARPES study for thin of half-metal Heusler compounds $\text{Co}_2\text{FeGa}_{0.5}\text{Ge}_{0.5}$
- 19AG022 Yoshihisa Matsumoto (Institute of Innovative Research, Tokyo Institute of Technology)
Analysis of the effects of temperature on the secondary structure of proteins involved in DNA damage response and repair
- 19AG023 Satomi Inaba (Japan Synchrotron Radiation Research Institute)
Solution structures of signaling molecules SH2 domain and its complex analyzed using VUVCD
- 19AG024 Shinji Kuroda (Graduate School of Pure and Applied Science, University of Tsukuba)
ARPES measurements on mixed crystals of topological crystalline insulator SnTe
- 19AG025 Yudai Izumi (Hiroshima Synchrotron Radiation Center, Hiroshima University)
VUV-CD spectroscopy of histone proteins extracted from human cancer cells
- 19AG026 Koichi Matsuo (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Relationship between structural parameters of sugars and structural stability of proteins
- 19AG027 Koichi Matsuo (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Interaction study of MBP fragment and liposome membrane
- 19AG028 Takashi Mizokawa (Faculty of Science and Technology, Waseda University)
Unusual thermoelectric effect and excitonic correlation in layered chalcogenides/pnictides
- 19AG029 Masaru Kato (Faculty of Env. Earth Science, Hokkaido University)
Observation of electronic states of monolayer graphene on metals
- 19AG030 Shin-ichi Wada (Graduate School of Science, Hiroshima University)
Substitution effect of molecular conductivity probed by resonant Auger spectroscopy
- 19AG031 Shin-ichi Wada (Graduate School of Science, Hiroshima University)
Ion desorption of core-excited organic monolayers using pulsed-HV time-of-flight mass spectrometer
- 19AG032 Naoki Ishimaru (Graduate School of Science, Hiroshima University)
XMCD study on temperature dependence of Gd and Co magnetic moments in Laves phase hydride GdCo_2H_3
- 19AG033 Kentaro Fujii (National Institutes for Quantum and Radiological Science and Technology)
VUV-CD measurements of DNA repair proteins
- 19AG034 Kentaro Fujii (National Institutes for Quantum and Radiological Science and Technology)
Resonant photo-electron spectroscopy of bromo-uracil

- 19AG035 Yasumasa Hikosaka (Institute of Liberal Arts and Science at University of Toyama)
Ion time-of-flight mass spectrometry for ion desorption after molecular inner-shell excitation III
- 19AG036 Atsushi Baba (MILBON)
Structural analysis of hair protein using vacuum-ultraviolet circular dichroism
- 19AG037 Masato Sakano (Graduate School of Engineering, University of Tokyo)
Topological transition induced by charge density wave in NbTe₂
- 19AG038 Shinjiro Hayakawa (Graduate School of Engineering, Hiroshima University)
Basic evaluation of beamline performance for beamline sophistication
- 19AG039 Takayoshi Yokoya (Graduate School of Natural Science and Technology, Okayama University)
Micro ARPES study of layered transition metal nitride TiNCl
- 19AG040 M. Zahid Hasan (Princeton University)
Spin Texture and Topology of a Ferromagnetic Weyl Semimetal, Co₃Sn₂S₂
- 19AG041 Hideaki Iwasawa (Graduate School of Science, Hiroshima University)
High-resolution ARPES on Sr₂RuO₄ under uniaxial pressure II
- 19AG042 Hideaki Iwasawa (Graduate School of Science, Hiroshima University)
Uncovering unusual electronic states in high-T_c cuprate superconductor La_{2-x}Sr_xCuO₄
- 19AG043 Masashi Arita (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Angle-resolved photoemission study of FeSi[110]
- 19AG044 Hitoshi Sato (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Study on valence transition of YbInCu₄ by mean of low-energy angle resolved photoemission spectroscopy II
- 19AG045 Hitoshi Sato (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Study on metal-semiconductor transition of mineral tetrahedrite Cu₁₂As₄As₁₃ by mean of photoemission and absorption spectroscopies
- 19AG046 Hitoshi Sato (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Study on a transition of new Ce compound by mean of angle resolved photoemission spectroscopy II
- 19AG047 Takashi Tokushima (MAX IV Laboratory, Lund University)
A feasibility study of the atomic hydrogen cleaning of the carbon contamination on optical elements 2
- 19AG048 Alexander Shikin (Saint Petersburg State University)
Details of electronic structure of antiferromagnetic magnetically-ordered topological insulators of different stoichiometry and their modification with temperature in the region of the Neel temperature
- 19AG049 Alexander Shikin (Saint Petersburg State University)
Comparative ARPES analysis of electronic structure modification of the Cr- and Gd-doped topological insulators under synchrotron and laser photoexcitation
- 19AG050 Vladimir Andreevich Golyashov (Rzhanov Institute of Semiconductor Physics of the Siberian Branch of the Russian Academy of Sciences)

- ARPES study of the emerging topological states on the (111) surface of the MBE grown In-doped $\text{Pb}_x\text{Sn}_{1-x}\text{Te}$ thin films with compositions outside topological crystalline insulator region.
- 19AG051 Guodong Liu (Institute of Physics, Chinese Academy of Sciences)
A study of layer-dependent electronic structure on the new nodal-line ferromagnetic semimetal Fe_3GeTe_2
- 19AG052 Akio Kimura (Graduate School of Science, Hiroshima University)
Observation of surface orbital textures in antiferromagnetic topological insulators
- 19AG053 Akio Kimura (Graduate School of Science, Hiroshima University)
Angular and orbital resolved ARPES of Dirac materials that belong to non-symmorphic space group
- 19AG054 Akio Kimura (Graduate School of Science, Hiroshima University)
Observation and control of tilted Weyl cones of the Heusler-type FM thin films by spin-resolved ARPES with SR
- 19AG055 Mario Novak (University of Zagreb)
Revealing “side surface states” and bulk states of the topological Dirac line-node semimetals $\text{ZrSiS}/\text{HfSiS}$
- 19AG056 Taichi Okuda (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Study of spin-electronic states of topological materials in the temperature-induced t phase transition
- 19AG057 Eike Fabian Schwier (Hiroshima Synchrotron Radiation Center, Hiroshima University)
High-resolution ARPES investigation of the herringbone reconstruction on $\text{Au}(111)$
- 19AG058 Baojie Feng (Institute of Physics, Chinese Academy of Sciences)
ARPES measurements of bulk and single-layer ruthenium chloride
- 19AU001 Ritsuko Eguchi (Graduate School of Natural Science and Technology, Okayama University)
Study of the electronic structure of $\text{Ag}_x\text{Bi}_2\text{Se}_3$ by Micro ARPES
- 19AU002 Chang Liu (Southern University of Science and Technology)
High resolution laser-ARPES study on magnetic topological insulators MnBiTe_4 and MnBi_4Te_7
- 19AU003 Turgut Yilmaz (National Synchrotron Light Source II, Brookhaven National Laboratory)
Angle resolved photoemission study of Cr-doped Bi_2Se_3 to search for the quantum anomalous Hall state.
- 19AU004 Taichi Okuda (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Exploration of target materials for out-of-plane spin detection
- 19AU005 Shin Imada (College of Science and Engineering, Ritsumeikan University)
Core-level MCD of transition metal -Mn Sb half Heusler ferromagnets
- 19AU006 Atsushi Yamasaki (Faculty of Science and Engineering, Konan University)
Electronic structures of Mn-based oxypnictides studied by photoemission spectroscopy
- 19AU007 Chaoyu Chen (Southern University of Science and Technology)
Spatial resolved Laser-ARPES study on magnetic topological insulators $\text{Mn}_2\text{Bi}_2\text{Te}_5$, doped MnBi_2Te_4 and EuIn_2As_2

- 19AU008 Kaname Kanai (Faculty of Science and Technology, Tokyo University of Science)
Elucidation of electronic structure of organometallic layers grown on metal surface
- 19AU009 Kazuhiro Hono (Graduate School of Pure and Applied Sciences, University of Tsukuba)
The observation of the composition dependance of the electronic in half-metal Heusler alloy $\text{Co}_2\text{Fe}(\text{Ga}_{0.5}\text{Ge}_{0.5})$
- 19BG001 Shinya Yagi (EcoTopia Science Institute, Nagoya University)
Chemical state characterization of vulcanized materials by Sulfur K-edge NEXAFS
- 19BG002 Hitoshi Yamaoka (RIKEN SPring-8 Center)
Photoelectron spectroscopy of Yb_4TGe_8 (T=Cr, Mn) II
- 19BG003 Takashi Mizokawa (Faculty of Science and Engineering, Waseda University)
Topological band structure of chiral Ir compounds
- 19BG004 Shin-ichi Wada (Graduate School of Science, Hiroshima University)
Substitution effect of molecular conductivity probed by resonant Auger spectroscopy II
- 19BG005 Shin-ichi Wada (Graduate School of Science, Hiroshima University)
Ion desorption of core-excited organic monolayers using pulsed-HV time-of-flight mass spectrometer II
- 19BG006 Chaoyu Chen (Southern University of Science and Technology)
Electronic structure and spin texture determination of magnetic Weyl semimetals
- 19BG007 Baojie Feng (Institute of Physics, Chinese of Academy of Sciences)
Investigation of band structures of tin oxide
- 19BG009 Shinjiro Hayakawa (Graduate School of Engineering, Hiroshima University)
Sulfur K-edge XAFS analysis of acid decomposition of diethyl-dithio carbamate (DDTC)
- 19BG010 Yasumasa Hikosaka (Institute of Liberal Arts and Science at University of Toyama)
Core-hole decay processes in molecules adsorbed on surface
- 19BG011 Satoshi Asaoka (Kobe University Research Center for Inland Seas)
Identification of sulfur species in marine sediments from western part of Seto Inland Sea, Japan using XAFS
- 19BG012 Taichi Okuda (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Study of spin-electronic states of High Tc superconductors Bi_{2212} , Bi_{2201}
- 19BG013 Taichi Okuda (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Experimental verification of Chirality Induced Spin Selectivity (CISS) effect on Chiral molecule
- 19BG014 Kenya Shimada (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Uncovering nonsymmorphic symmetry protected hidden spin polarization in inversion-symmetric bulk BiOI
- 19BG015 Teppei Yoshida (Graduate School of Human and Environmental Studies, Kyoto University)
Observation of the Mott transition for $\text{Ca}_3\text{Ru}_{2-x}\text{Ti}_x\text{O}_7$ studied by ARPES
- 19BG016 Daiki Ootsuki (Graduate School of Human and Environmental Studies, Kyoto University)
ARPES study of the metal-insulator transition in Ru pnictides
- 19BG017 Hideaki Iwasawa (Graduate School of Science, Hiroshima University)

- High-resolution ARPES on Sr₂RuO₄ under uniaxial pressure III
- 19BG018 Hideaki Iwasawa (Graduate School of Science, Hiroshima University)
Quantitative evaluation of low to high energy-scale interactions in high-T_c cuprate superconductors
- 19BG019 Naoki Ishimatsu (Graduate School of Science, Hiroshima University)
XMCD study on temperature dependence of Gd and Co magnetic moments in Laves phase hydride GdCo₂H₃
- 19BG020 Yudai Izumi (Hiroshima Synchrotron Radiation Center, Hiroshima University)
VUV-CD measurements of Heat-stressed histone proteins
- 19BG021 Kentaro Fujii (National Institutes for Quantum and Radiological Science and Technology)
VUV-CD measurements of DNA repair proteins
- 19BG022 Kentaro Fujii (National Institutes for Quantum and Radiological Science and Technology)
Resonant photo-electron spectroscopy of bromo-uracil
- 19BG023 Yoshihisa Matsumoto (Institute of Innovative Research, Tokyo Institute of Technology)
Analysis of the effects of temperature on the secondary structure of proteins involved in DNA damage response and repair
- 19BG024 Shaolong He (Ningbo Institute of Industrial Technology, Chinese Academy of Sciences)
ARPES study of type-II Dirac points in NiTe₂
- 19BG025 Shaolong He (Ningbo Institute of Industrial Technology, Chinese Academy of Sciences)
ARPES study of type-II nodal loop in trigonal layered PtBi₂
- 19BG026 Markus Donath (Westfälische Wilhelms-Universität)
Ultrathin ferromagnetic films on spin-orbit-influenced metals: Interplay between exchange and spin-orbit interaction
- 19BG027 Yasuyuki Maki (Faculty of Science, Kyushu University)
Secondary-structure analysis of denatured collagen by vacuum-ultraviolet circular dichroism
- 19BG028 Ya Feng (Ningbo Institute of Industrial Technology, Chinese Academy of Sciences)
ARPES study of silicon nano-ribbons
- 19BG029 Takashi Komesu (University of Nebraska-Lincoln)
The electronic structure investigation on Pd doped SrIrO₃ thin film
- 19BG031 Shilong Wu (University of Cologne)
Band structure investigation of Iron/MoS₂ interfaces
- 19BG032 Jun-ichi Takahashi (Graduate School of Engineering, Yokohama National University)
Vacuum-ultraviolet circular dichroism analysis of optical activity emergence in amino acid thin films by circularly-polarized light irradiation
- 19BG033 Mario Novak (University of Zagreb)
ARPES study of non-uniform charge transfer and circular dichroism in Vanadium intercalated NbS₂
- 19BG034 Hemian Yi (The Pennsylvania State University)
Exploring the topological superconductivity in the heterostructures of topological insulator grown on NbSe₂ thin films

- 19BG035 Tian Qian (Institute of Physics, Chinese Academy of Sciences)
ARPES investigation of new type of topological crystalline insulator $\text{Ba}_3\text{Cd}_2\text{As}_4$
- 19BG036 Shin Imada (College of Science and Engineering, Ritsumeikan University)
Angle-resolved photoemission and k_z dispersion of half-metallic NiMnSb
- 19BG037 Shin Imada (College of Science and Engineering, Ritsumeikan University)
Determination of spin and orbital quantum states of the surface electronic state of Bi (111)
- 19BG038 Hiroaki Yoshida (Graduate School of Science, Hiroshima University)
Soft X-ray absorption spectra of copper ion complexes included in cyclodextrin
- 19BG039 Hiroaki Yoshida (Graduate School of Science, Hiroshima University)
Electronic states of Lipoic acid and related molecules included in cyclodextrin
- 19BG040 Hiroaki Yoshida (Graduate School of Science, Hiroshima University)
Circular dichroism of cyclodextrin and lipoic acid included in cyclodextrin
- 19BG041 Turgut Yilmaz (National Synchrotron Light Source II, Brookhaven National Laboratory)
Interface electronic structure of Bi_2Se_3 / VSe_2 heterostructure
- 19BG042 Hitoshi Sato (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Study on electronic structure of $\text{YbInCu}_{5-x}\text{Al}_x$ by mean of low-energy photoemission spectroscopy
- 19BG044 Chaoyu Chen (Southern University of Science and Technology)
Electronic structure of elementary excitation in quantum spin liquid candidate 1T-TaS_2
- 19BG045 Masato Sakano (Graduate School of Engineering, University of Tokyo)
Spin-polarized electronic structure in chiral crystal structure (II)
- 19BG046 Keiki Fukumoto (KEK)
Estimation of energy levels in high efficiency organic electroluminescence materials
- 19BG047 Koichi Matsuo (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Structural change of oligopeptide induced by membrane interaction
- 19BG048 Mario Navak (University of Zagreb)
Detecting the surface states of the topological Dirac line-node semimetals HfSiS on the (100) surface
- 19BG049 Akio Kimura (Graduate School of Science, Hiroshima University)
Exploring an axion insulator phase in Eu based antiferromagnetic materials
- 19BG050 Akio Kimura (Graduate School of Science, Hiroshima University)
Unveiling surface Fermi arcs and their magnetization direction dependent spin textures of the Weyl ferromagnetic alloy films
- 19BG051 Masashi Arita (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Angle-resolved photoemission study of rapping surface SmB_6 [110]
- 19BG052 Masashi Arita (Hiroshima Synchrotron Radiation Center, Hiroshima University)
Spin and angle resolved photoemission study of FeSi
- 19BG053 Shiv Kumar (Hiroshima Synchrotron Radiation Center, Hiroshima University)
High-resolution ARPES study of BiSbTe_3 and intercalated topological insulators Bi_2Se_3
- 19BU001 Hitoshi Suzuki (Graduate School of Advanced Sciences of Matter, Hiroshima University)
Structural analysis of graphene nanomesh fabricated by bottom-up method on Cu surface

- 19BU002 Chang Liu (Southern University of Science and Technology)
High resolution ARPES study on magnetic topological insulators $\text{Mn}(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_4$
- 19BU003 Masaru Kato (Faculty of Env. Earth Science, Hokkaido University)
Understanding interactions between monolayer graphene and metal supports
- 19BU004 Martin Andersson (Chalmers University of Technology)
Far UV-CD spectroscopy of protein-nanomaterials interaction
- 19BU005 Chaoyu Chen (Southern University of Science and Technology)
Electronic structure of the parent compound of superconducting infinite-layer nickelates by XPS, IPES and XAS
- 19BU006 K. Asokan (Inter University Accelerator Centre)
Electronic and magnetic structures of Iridates using X-ray absorption and X-ray magnetic dichroism based techniques
- 19BU007 Masahiro Tsujimoto (Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency)
Transmission curve measurement of the vacuum window installed in the X-ray astronomy satellite
- 19BU008 Artem Rybkin (Saint Petersburg State University)
Laser-ARPES measurements of interface states in Graphene/Au/Co system with loop dislocation network
- 19BU009 Arghya Taraphder (Indian Institute of Technology Kharagpur)
Instabilities and their competition in doped or intercalated VSe_2
- 19BU010 Friedrich Reinert (Julius-Maximilians-Universität Würzburg)
Probing the bulk and surface signatures of the time-reversal breaking in the electronic structure of the magnetically doped topological insulator $\text{V: (Bi, Sb)}_2\text{Te}_3$ with high resolution UV-ARPES
- 19BU011 Ken Terao (Graduate School of Science, Osaka University)
Conformational change of double helical xanthan in aqueous solution
- 19BU012 Chang Liu (Southern University of Science and Technology)
High resolution ARPES study on magnetic topological insulators $\text{Mn}(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Te}_4$
- 19BU013 Atsushi Baba (MILBON)
Visualization of denaturation process of hair cross section by hydrogen peroxide using vacuum ultraviolet circular dichroism
- 19BU014 Jens Ruediger Stellhorn (Graduate School of Engineering, Hiroshima University)
Structure of a novel amorphous organic-inorganic hybrid tin cluster exhibiting nonlinear optical effects by Sn XAFS measurements

Symposium

The 24th Hiroshima International Symposium on Synchrotron Radiation
March 10 – March 11, 2020, Faculty Club, Hiroshima University (cancelled)

Workshop

- International Young Researchers Workshop on Synchrotron Radiation Science 2019
—Front-line and Future Prospects of Synchrotron Radiation Science by Integrating
Next-Generation Light Sources, Measurement Techniques and Informatics—
September 3–4, 2019, Faculty of Science, Hiroshima University
- MIRAI PhD School 2019—Electronic and Magnetic Properties of Materials Using
Large Scale Facilities—
October 20–26, 2019, Hiroshima Synchrotron Radiation Center, Hiroshima
University
October 27–November 2, 2019, Japan Proton Accelerator Research Complex (J-
PARC)

In Japanese

- 第24回HiSOR研究会「最先端光電子分光で拓く量子物質科学研究に関する
ワークショップ」
2019年9月5–6日 広島大学理学部
- 第25回HiSOR研究会「小型放射光リングによる多彩な量子ビームの発生と
応用」
2019年10月16–17日 広島大学放射光科学研究センター
- 第26回FELとHigh-Power Radiation研究会
2019年12月17–18日 広島大学学士会館

HiSOR Seminar

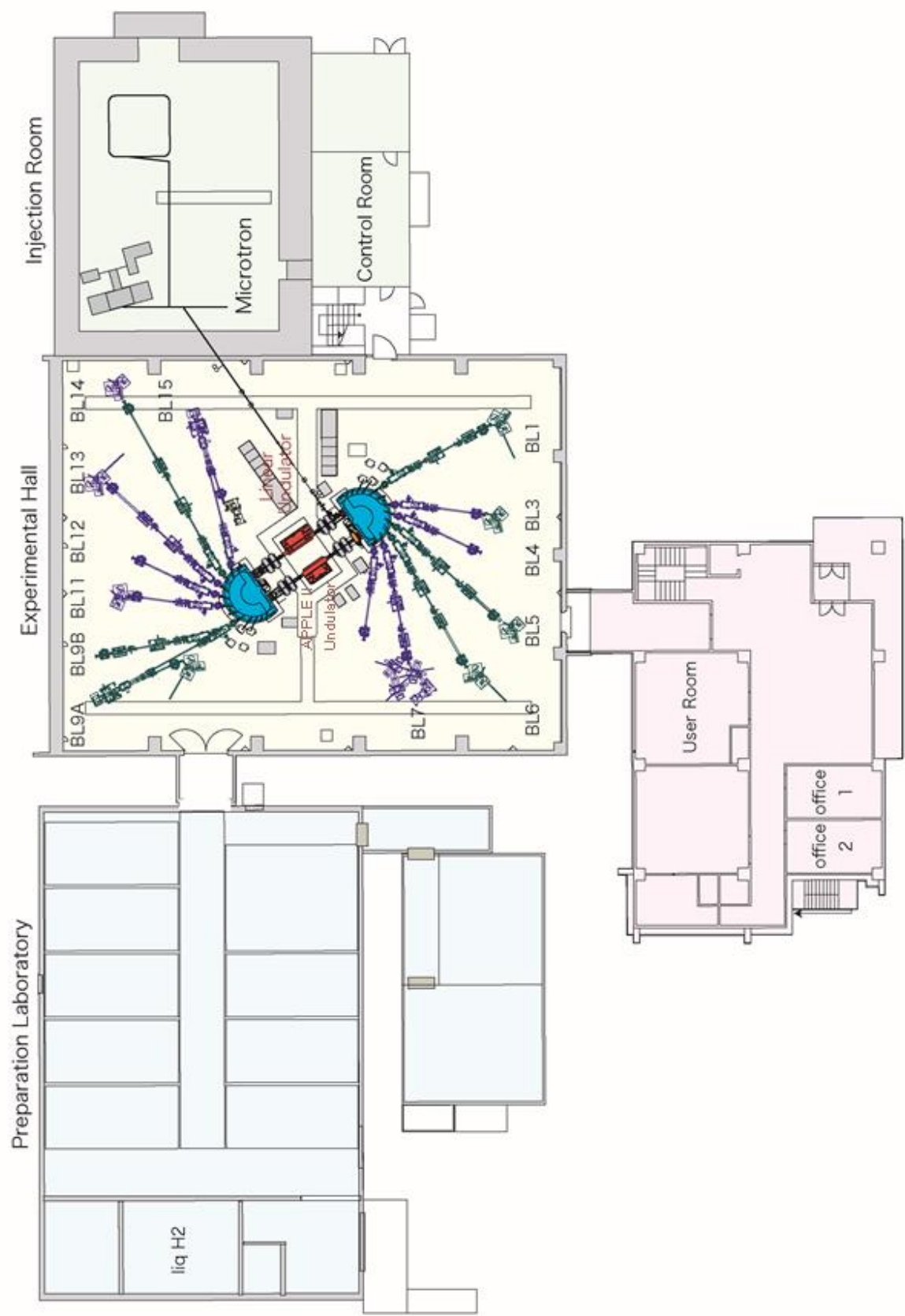
- Prof. Sutiman B. Sumitro (Laboratory of Cell, Molecular and Nano Biology,
Brawijaya University)
Herbal medicine, radical scavenger, and metal detoxification: bioinorganic,
complexity, and nano science perspectives
October 16, 2019
- Dr. Bernd Kaestner (PTB, Metrology Light Source, Germany)
Synchrotron IR nanospectroscopy –novel detection and measurement schemes
November 19, 2019
- Prof. Zachary J. Liptak (University of Hawaii)
Belle II Commissioning, First Results, and Future Prospects
December 2, 2019

- Dr. Yogendra Kumar (The Institute of Physics, Chinese Academy of Sciences)
Introduction to ferromagnetic spinel system and HP-HT synthesis
January 24, 2020

In Japanese

- 福本恵紀 博士 (KEK-PF)
フェムト秒時間分解光電子顕微鏡による半導体表面のキャリアダイナミクス
2019年8月26日
- 寺尾憲 准教授 (大阪大学)
多糖およびその誘導体の溶液中における分子形態と機能性
2019年10月8日
- 奥村久士 准教授 (分子科学研究所)
アルツハイマー病を引き起こすたんぱく質凝集体の分子動力学シミュレーション
2019年11月21日
- 島田美帆 博士 (KEK、広島大学)、本田洋介 博士 (KEK)
先端放射光源研究の現状と展望
2020年1月31日
- 金安達夫 博士 (九州シンクロトロン光研究センター)
Attosecond Coherent Control of the Photoexcitation of Helium Atoms by Synchrotron Radiation
2020年3月24日

Plan of the Building



Location

