Appendices

Organization

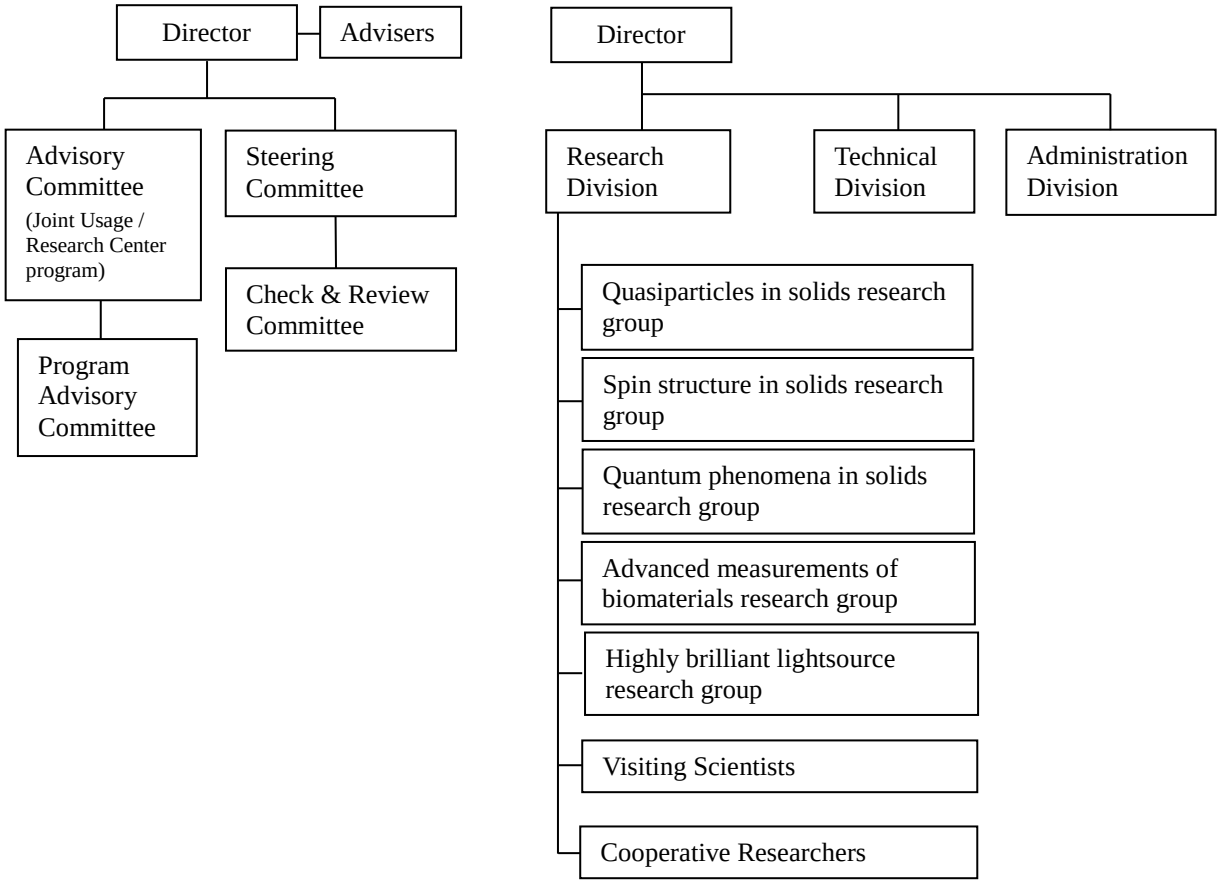

Fig. 1: Organization chart of HiSOR

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	Tukuba Institute of Sciense 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
SATO, Hitoshi	Associate Professor
SAWADA, Masahiro	Associate Professor
MATSUO, Koichi	Associate Professor
KAWASE, Keigo	Associate Professor
SANTNDER-SYRO, Andrés Felipe	Associate Professor
INO, Akihiro	Associate Professor (Special Appointment)
FENG, Baojie	Assistant Professor
MIYAMOTO, Kouji	Assistant Professor
SCHWIER, Eike Fabian	Assistant Professor
IZUMI, Yudai	Assistant Professor
MATSUBA, Shunya	Assistant Professor
GOTO, Kiminori	Engineer
ARITA, Masashi	Engineer
TANIGUCHI, Masaki	Visiting Professor
HORI, Toshitada	Visiting Professor
UEDA, Yoshifumi	Visiting Professor
Shiv Kumar	Visiting Researcher
FENG, Ya	Visiting Researcher
MURAYAMA, Tomoko	Technical Staff
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
SATO, Hitoshi	HiSOR
SAWADA, Masahiro	HiSOR
MATSUO, Koichi	HiSOR
KAWASE, Keigo	HiSOR
INUI, Masanori	Graduate School of Integrated Arts and Sciences
MARUYAMA, Hiroshi	Graduate School of Science

KURIKI, Masao	Graduate School of Advanced Science of Matter
HAYAKAWA, Shinjiro	Graduate School of Engineering
UENO, Satoshi	Graduate School of Biosphere Science
MATOBA, Yasuyuki	Graduate School of Biomedical Science
AIURA, Yoshihiro	Advanced Industrial Science and Technology
FUJIMORI, Atsushi	The University of Tokyo
OHTA, Toshiaki	Ritsumeikan University

**Chair Person*

Check & Review Committee

SATO, Hitoshi*	HiSOR
SHIMADA, Kenya	HiSOR
OKUDA, Taichi	HiSOR
NAMATAME, Hirofumi	HiSOR
SAWADA, Masahiro	HiSOR
MATSUO, Koichi	HiSOR
KAWASE, Keigo	HiSOR
NODA, Yoshito	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
SATO, Hitoshi	HiSOR
SAWADA, Masahiro	HiSOR
MATSUO, Koichi	HiSOR
KAWASE, Keigo	HiSOR
KUROIWA, Yoshihiro	Graduate School of Science
HIRAYA, Atsunari	Graduate School of Science
AIURA, Yoshihiro	National Institute of Advanced Industrial Science and Technology
YOKOYA, Takayoshi	Okayama University
FUJIMORI, Atsushi	The University of Tokyo
QIAO, Shan	Shanghai Institute of Microsystem And Information Technology, Chinese Academy of Sciences
SODA, Kazuo	Nagoya University
SHIN, Shik	The University of Tokyo

KATOH, Masahiro	National Institutes of Natural Sciences
NAMBA, Hidetoshi	Ritsumeikan University
HIRAI, Yasuharu	Kyushu Synchrotron Light Research Center
TOBIYAMA, Makoto	High Energy Accelerator Research Organization

**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	Kyushu University

**Chair Person*

Visiting Scientists

HORI, Toshitada	Emeritus Professor, Hiroshima University
KATO, Ryukou	High Energy Accelerator Research Organization
UEDA, Yoshifumi	Emeritus Professor, National Institute of Technology, Kure College
DONATH, Markus	Westfälische Wilhelms-Universität
SCHÖNHENSE, Gerd	Johannes Gutenberg University Mainz
QIAO, Shan	Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
ZHOU, Xingjiang	Institute of Physics, Chinese Academy of Sciences
AIURA, Yoshihiro	National Institute of Advanced Industrial Science and Technology
SOKOLOV, Nikolai	Ioffe Physical Technical Institute, Russian Academy of Sciences
MIMURA, Kojiro	Osaka Prefecture University
IWASAWA, Hideaki	Diamond Light Source

Cooperative Researchers (Faculty members)

INUI, Masanori	Graduate School of Integrated Arts and Sciences
HIRAYA, Atsunari	Graduate School of Science
MARUYAMA, Hiroshi	Graduate School of Science
KUROIWA, Yoshihiro	Graduate School of Science
SEKITANI, Tetsuji	Graduate School of Science
OKADA, Kazumasa	Graduate School of Science
NAKAJIMA, Nobuo	Graduate School of Science
MORIYOSHI, Chikako	Graduate School of Science
YOSHIDA, Hiroaki	Graduate School of Science
WADA, Shin-ichi	Graduate School of Science
ISHIMATSU, Naoki	Graduate School of Science
MAKI, Sachiko	Graduate School of Science
TAKABATAKE, Toshiro	Graduate School of Advanced Sciences of Matter
TANAKA, Arata	Graduate School of Advanced Sciences of Matter
HAYAKAWA, Shinjiro	Graduate School of Engineering
MATOBA, Yasuyuki	Graduate School of Biomedical Science

Cooperative Researchers (Visiting Researchers)

SUMIDA, Hirosuke	Technical Research Center, Mazda Motor Co.
KODA, Yuki	Technical Research Center, Mazda Motor Co.
HAPPO, Naohisa	Hiroshima City University
SENBA, Shinya	Ube National College of Technology
YOKOYA, Takayoshi	Okayama University
MURAOKA, Yuji	Okayama University
WAKITA, Takanori	Okayama University
TERASHIMA, Kensei	Okayama University
YAGI, Shinya	Nagoya University
SAKAMOTO, Kazuyuki	Chiba University
MATSUDA, Iwao	The University of Tokyo
FUJIMORI, Shin-ichi	Japan Atomic Energy Agency
GEKKO, Kunihiko	Hiroshima University

List of publications

Visualizing type-II Weyl points in tungsten ditelluride by quasiparticle interference
C. –L. Lin, R. Arafune, R. –Y. Liu, M. Yoshimura, B. Feng, K. Kawahara, Z. Ni, E. Minamitani, S. Watanabe, Y. Shi, M. Kawai, T. –C. Chiang, I. Matsuda, N. Takagi
ACS Nano **11**, 11459 (2017)

Vacuum-ultraviolet circular dichroism study of oligosaccharides using a synchrotron-radiation spectrophotometer
K. Matsuo
Biomedical Spectroscopy and Imaging **6**, 111 (2017)

Optimum reaction ratio of coal fly ash to blast furnace cement for effective removal of hydrogen sulfide
S. Asaoka, H. Okamura, K. Kim, Y. Hatanaka, K. Nakamoto, K. Hino, T. Oikawa, S. Hayakawa, T. Okuda
Chemosphere **168**, 384 (2017)

Valence transition in polycrystalline $Eu(Rh_{1-x}Co_x)_2Si_2$ studied by hard x-ray photoemission spectroscopy
K. Ichiki, T. Matsumoto, H. Anzai, R. Takeshita, K. Abe, S. Ishihara, T. Uozumi, H. Sato, A. Rousuli, S. Ueda, Y. Taguchi, K. Shimada, H. Namatame, M. Taniguchi, S. Hamano, A. Mitsuda, H. Wada, K. Mimura
Journal of Electron Spectroscopy and Related Phenomena **220**, 28 (2017)

Different valence states of Tm in YB_6 and YbB_6
H. Sato, H. Nagata, F. Iga, Y. Osanai, A. Rousuli, K. Mimura, H. Anzai, K. Ichiki, S. Ueda, T. Takabatake, A. Kondo, K. Kindo, K. Shimada, H. Namatame, M. Taniguchi
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The *c-f* hybridization effect in the subsurface region of $YbInCu_4$
S. Ishihara, K. Ichiki, K. Abe, T. Matsumoto, K. Mimura, H. Sato, M. Arita, E. F. Schwier, H. Iwasawa, K. Shimada, H. Namatame, M. Taniguchi, T. Zhuang, K. Hiraoka, H. Anzai
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Theoretical study on X-ray absorption spectra and bond dynamics for core excitation from valence excited benzoic acids
H. Inui, O. Takahashi, A. Hiraya
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Magnetic interlayer coupling in Fe/h-BN/Ni(111) probed by soft x-ray magnetic circular dichroism
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Hard x-ray photoemission study of $Yb_{1-x}Zr_xB_{12}$: the effects of electron doping on the Kondo insulator YbB_{12}
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Journal of Physics: Condensed Matter **29**, 265601 (2017)

Adsorbate doping of MoS_2 and WSe_2: the influence of Na and Co
T. Komesu, D. Le, I. Tanabe, E. F. Schwier, Y. Kojima, M. Zheng, K. Taguchi, K. Miyamoto, T. Okuda, H. Iwasawa, K. Shimada, T. S. Rahman, P. A. Dowben
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Electronic structure of ferromagnetic heavy fermion, YbPdSi, YbPdGe, and YbPtGe studied by photoelectron spectroscopy, x-ray emission spectroscopy, and DFT + DMFT calculations

H. Yamaoka, P. Thunström, N. Tsujii, K. Katoh, Y. Yamamoto, E. F. Schwier, K. Shimada, H. Iwasawa, M. Arita, I. Jarrige, N. Hiraoka, H. Ishii, K. –D. Tuei, J. Mizuki

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Recent trends in spin-resolved photoelectron spectroscopy

T. Okuda

Journal of Physics: Condensed Matter **29**, 483001 (2017)

Shifts and splittings of the hole bands in the nematic phase of FeSe

M. D. Watson, A. A. Haghighirad, H. Takita, W. Mansuer, H. Iwasawa, E. F. Schwier, A. Ino, M. Hoesch

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A novel one-dimensional electronic state at $IrTe_2$ surface

D. Ootsuki, H. Ishii, K. Kudo, M. Nohara, M. Takahashi, M. Horio, A. Fujimori, T. Yoshida, M. Arita, H. Anzai, H. Namatame, M. Taniguchi, N. L. Saini, T. Mizokawa

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DNA damage response induces structural alterations in histone H3-H4

Y. Izumi, K. Fujii, S. Yamamoto, K. Matsuo, H. Namatame, M. Taniguchi, A. Yokoya

Journal of Radiation Research **58**, 59 (2017)

Rotatable high-resolution ARPES system for tunable linear-polarization geometry

H. Iwasawa, K. Shimada, E. F. Schwier, M. Zheng, Y. Kojima, H. Hayashi, J. Jiang, M. Higashiguchi, Y. Aiura, H. Namatame, M. Taniguchi

Journal of Synchrotron Radiation **24**, 836 (2017)

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S. Kumar, G. D. Dwivedi, A. G. Joshi, S. Chatterjee, A. K. Ghosh

Materials Characterization **131**, 108 (2017)

Large-gap magnetic topological heterostructure formed by subsurface incorporation of a ferromagnetic layer

T. Hirahara, S. V. Eremeev, T. Shirasawa, Y. Okuyama, T. Kubo, R. Nakanishi, R. Akiyama, A. Takayama, T. Hajiri, S. Ideta, M. Matsunami, K. Sumida, K. Miyamoto, Y. Takagi, K. Tanaka, T. Okuda, T. Yokoyama, S. Kimura, S. Hasegawa, E. V. Chulkov

Nano Letters **17**, 3493 (2017)

Lorentz-violating type-II Dirac fermions in transition metal dichalcogenide $PtTe_2$

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Nature Communications **8**, 257 (2017)

Experimental realization of two-dimensional Dirac nodal line fermions in monolayer Cu_2Si

B. Feng, B. Fu, S. Kasamatsu, S. Ito, P. Cheng, C. –C. Liu, Y. Feng, S. Wu, S. K. Mahatha, P. Sheverdyaeva, P. Moras, M. Arita, O. Sugino, T. –C. Chiang, K. Shimada, K. Miyamoto, T. Okuda, K. Wu, L. Chen, Y. Yao, I. Matsuda

Nature Communications **8**, 1007 (2017)

Direct evidence of hidden local spin polarization in a centrosymmetric superconductor $LaO_{0.55}F_{0.45}BiS_2$

S. –L. Wu, K. Sumida, K. Miyamoto, K. Taguchi, T. Yoshikawa, A. Kimura, Y. Ueda, M. Arita, M. Nagao, S. Watauchi, I. Tanaka, T. Okuda

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W. Yao, E. Wang, H. Huang, K. Deng, M. Yan, K. Zhang, K. Miyamoto, T. Okuda, L. Li, Y. Wang, H. Gao, C. Liu, W. Duan, S. Zhou

Nature Communications **8**, 14216 (2017)

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Y. Iwata, T. Fujimoto, S. Matsuba, T. Fujita, S. Sato, T. Furukawa, Y. Hara, K. Mizushima, Y. Saraya, R. Tansho, N. Saotome, T. Shirai, K. Noda

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K. Fujii, N. Ishimatsu, H. Maruyama, T. Shishidou, S. Hayakawa, N. Kawamura

Physical Review B **95**, 024116 (2017)

Covalent versus localized nature of 4*f* electrons in ceria: Resonant angle-resolved photoemission spectroscopy and density functional

T. Duchoň, M. Aulická, E. F. Schwier, H. Iwasawa, C. Zhao, Y. Xu, K. Veltruská, K. Shimada, V. Matolín

Physical Review B **95**, 165124 (2017)

Experimental realization of type-II Weyl state in noncentrosymmetric $TaIrTe_4$

E. Haubold, K. Koepernik, D. Efremov, S. Khim, A. Fedorov, T. Kushnirenko, J. van den Brink, S. Wurmehl, B. Büchner, T. K. Kim, M. Hoesch, K. Shimada, K. Taguchi, T. Yoshikawa, A. Kimura, T. Okuda, S. V. Borisenko

Physical Review B **95**, 241108 (2017)

Hard x-ray photoemission study of the temperature-induced valence transition system $EuNi_2(Si_{1-x}Ge_x)_2$

K. Ichiki, K. Mimura, H. Anzai, T. Uozumi, H. Sato, Y. Utsumi, S. Ueda, A. Mitsuda, H. Wada, Y. Taguchi, K. Shimada, H. Namatame, M. Taniguchi

Physical Review B **96**, 045106 (2017)

Photoemission study of the electronic structure of the Kondo lattices $Yb_2Pt_6X_{15}$ (X=Al, Ga)

A. Rousuli, S. Nakamura, H. Sato, T. Ueda, Y. Matsumoto, S. Ohara, E. F. Schwier, T. Nagasakim K. Mimura, H. Anzai, K. Ichiki, S. Ueda, K. Shimada, H. Namatame, M. Taniguchi

Physical Review B **96**, 045117 (2017)

Experimental evidence for type-II Dirac semimetal in $PtSe_2$

K. Zhang, M. Yan, H. Zhang, H. Huang, M. Arita, Z. Sun, W. Duan, Y. Wu, S. Zhou

Physical Review B **96**, 125102 (2017)

Unusual coexistence of negative and positive charge transfer in mixed-valence $Na_xCa_{1-x}Cr_2O_4$

M. Taguchi, H. Yamaoka, Y. Yamamoto, H. Sakurai, N. Tsujii, M. Sawada, H. Daimon, K. Shimada, J. Mizuki

Physical Review B **96**, 245113 (2017)

Electron number-based phase diagram of $Pr_{1-x}LaCe_xCuO_{4-\delta}$ and possible absence of disparity between electron- and hole-doped

D. Song, G. Han, W. Kyung, J. Seo, S. Cho, B. S. Kim, M. Arita, K. Shimada, H. Namatame, M. Taniguchi, Y. Yoshida, H. Eisaki, S. R. Park, C. Kim

Physical Review Letters **118**, 137001 (2017)

Wide-angle display-type retarding field analyzer with high energy and angular resolutions

T. Muro, T. Ohkochi, Y. Kato, Y. Izumi, S. Fukami, H. Fujiwara, T. Matsushita

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N. Tiwari, S. Kumar, A. K. Ghosh, S. Chatterjee, S. N. Jha, D. Bhattacharyya
RSC Advances **7**, 56662 (2017)

A new landscape of multiple dispersion kinks in a high-T_c cuprate superconductor

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Scientific Reports **7**, 4830 (2017)

Pressure-induced anomalous valence crossover in cubic $YbCu_5$-based compounds

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Scientific Reports **7**, 5846 (2017)

Development of laser-based scanning μ-ARPES system with ultimate energy and momentum resolutions

H. Iwasawa, E. F. Schwier, M. Arita, A. Ino, H. Namatame, M. Taniguchi, Y. Aiura, K. Shimada
Ultramicroscopy **182**, 85 (2017)

High quality atomically thin $PtSe_2$ films grown by molecular beam epitaxy

M. Yan, E. Wang, X. Zhou, G. Zhang, H. Zhang, K. Zhang, W. Yao, N. Lu, S. Yang, S. Wu, T. Yoshikawa, K. Miyamoto, T. Okuda, Y. Wu, P. Yu, W. Duan, S. Zhou
2D Materials **4**, 45015 (2017)

List of Accepted Research Protocols

17AG001 Satoshi Asaoka (Kobe University)
Identification of sulfur species in marine sediments from Seto Inland Sea using XAFS

17AG002 Reiko Urade (Kyoto University)
Structural analysis of food proteins by vacuum ultraviolet circular dichroism spectroscopy

17AG003 Yoshihiro Aiura (AIST)
Photoemission spectroscopy study on electronic behavior of electron carriers doped on the fractured surface of oxide single crystals

17AG004 Shaolong He (Chinese Academy of Science)
Systematic studies of the interplay between magnetism and superconducitivity in EuFeAs122 superconductors

17AG005 Koichi Matsuo (Hiroshima University)
Structural analysis of glycoprotein interacted with glycolipid membrane using vacuum-ultraviolet circular dichroism

17AG006 Koichi Matsuo (Hiroshima University)
Membrane-interaction study of myelin protein using vacuum-ultraviolet circular dichroism

17AG007 Koichi Matsuo (Hiroshima University)
Angle-resolved photoelectron spectroscopy study on Ce1-2-10 systems

17AG009 Hitoshi Yamaoka (RIKEN)
Photoelectron spectroscopy study of Yb compounds

17AG010 Baojie Feng (University of Tokyo)
High resolution ARPES study of graphene-like materials

17AG011 Baojie Feng (University of Tokyo)
Spin-ARPES measurements of LnX family materials

17AG012 Shunsuke Tsuda (NIMS)
Photoemission study of multi-layered system of Sr-Cr-O compounds

17AG013 Yasuyuki Maki (Gunma University)
Effect of molecular weight on the conformational change of galactomannan induced by mixing with xanthan

17AG014 Hyeong-Do Kim (Seoul National University)
Electronic structure of kitaev materials Na_2IrO_3 and Li_2IrO_3 probed by inverse photoemission spectroscopy

17AG015 Tomohiko Saitoh (Tokyo University of Science)
Electronic structure study of delafossite-type oxides type oxides $CuMO_2$ (M=Mn, Fe)

17AG016 Joseph Shapter (Flinders University)
High resolution probing of carbon nanotube energy level structure

17AG017 Yoshiyuki Ohtsubo (Osaka University)
Spin-polarized electronic states on polar surfaces of topological Kondo insulator

17AG019 Shinji Kuroda (University of Tsukuba)
ARPES measurements on mixed crystals and hybrid structures of topological crystalline insulator SnTe

17AG020 Hiroaki Anzai (Osaka Prefecture University)
Synchrotron radiation photoemission study of organic radical crystal

17AG021 Hiroaki Anzai (Osaka Prefecture University)
Scanning tunneling microscopy and spectroscopy of rare-earth compound $YbInCu_4$

17AG022 Yudai Izumi (Hiroshima University)
VUV-CD spectroscopy of histone-DNA complex

17AG024 Chang Liu (South University of Science and Technology of China)
Direct observation of the node-line semimetallic and topological insulator phases of CaAgX (X = P, As) using ARPES

17AG026 Takashi Mizokawa (Waseda University)
ARPES study of multi-band electron-hole systems in layered chalcogenides

17AG029 Akihiro Ino (Hiroshima University)
Study of Cu-site substitution effect by means of high-resolution all-around superconducting-gap mapping of $Bi_2Sr_2Ca(Cu_{1-x}X_x)O_{8+\delta}$ (X = Co, Ni)

17AG030 Koichi Matsuo (Hiroshima University)
Observation of structural dynamics of mono-saccharides using vacuum-ultraviolet circular dichroism spectroscopy

17AG031 Kyoko Ishizaka (University of Tokyo)
Spectroscopic study on electronic structures of layered Cr chalcogenides

17AG033 Kentaro Fujii (QST)
VUV-CD measurements of proteins regarding a repair of DNA double strand breakage

17AG034 Takeshi Kondo (University of Tokyo)
Optimization mechanism of T_c in the multilayered superconductors

17AG035 Osamu Kubo (Osaka University)
Elucidation of electronic band structure of monolayer germanium film

17AG036 Hitoshi Sato (Hiroshima University)
Photoemission and absorption spectroscopies on mineral tetrahedrites $Cu_{12}Sb_4As_{13}$ with metal-semiconductor transition

17AG037 Hitoshi Sato (Hiroshima University)
Angle-resolved photoelectron spectroscopy of Kondo-lattice systems $YbNi_2X_2$(X=Ge, Si)

17AG038 M. Zahid Hasan (Princeton University)
A strongly-correlated topological phase of matter in CeSb and CeBi

17AG040 Koji Miyamoto (Hiroshima University)
Influence of surface reconstruction on Rashba-type spin-split surface states

17AG044 Hitoshi Sato (Hiroshima University)
Y-substitution effect on electronic state of Kondo insulator YbB_{12}

17AG045 Masahiro Sawada (Hiroshima University)
Magnetic properties of magnetic atoms evaporated on monolayer hexagonal boron nitride

17AG046 Masahiro Sawada (Hiroshima University)
Magnetic properties of structures of magnetic surface clusters

17AG049 Eike Fabian Schwier (Hiroshima University)
ARPES study of the bulk dispersion of single crystalline Nb(110)

17AG050 Eike Fabian Schwier (Hiroshima University)
Probing the surface and bulk electronic states of Nickel(100)

17AG051 Kenya Shimada (Hiroshima University)
High-resolution angle-resolved photoemission spectroscopy study of Cr covered Fe thin films grown on Cu(001)

17AG052 Shiv Kumar (Hiroshima University)
ARPES study of Cu-doped topological insulators Bi_2Te_3

17AG053 Daniel S. Dessau (University of Colorado, Boulder)
New ARPES methods for determining critical self-energy effects in cuprate superconductors - II

17AG055 Akio Kimura (Hiroshima University)
Unmasking electronic structures protected by non-symmorphic crystal symmetry by synchrotron ARPES

17AG056 Akio Kimura (Hiroshima University)
ARPES of the ternary Heusler-type topological materials

17AG057 Akio Kimura (Hiroshima University)
Peculiar spin-split surface state and topology of crystals having the same crystal structure as that of LiFeAs

17AG058 Shin-ichi Wada (Hiroshima University)
Evaluation of molecular conductivity in conductive aromatic molecules by means of X-ray absorption and Auger spectroscopy

17AG059 Shin-ichi Wada (Hiroshima University)
X-ray spectroscopy of gold nanoparticles synthesized by pulsed laser ablation

17AU001 Mario Novak (University of Zagreb)
Massless Kane electrons in Dirac/Weyl semimetals revisited by low-energy ARPES

17AU003 Shinjiro Hayakawa (Hiroshima University)
XAFS characterization of iodine inserted organo-MnO_2 films

17AU004 Shinya Hosokawa (Kumamoto University)
Conduction-band electronic states of Mg alloys with long period stacking order II

17AU005 Shinya Hosokawa (Kumamoto University)
Valence-band electronic states of Mg alloys with long period stacking order III

17AU006 Taichi Okuda (Hiroshima University)
Study of inversion symmetric bulk crystals Na_3Bi by high resolution spin-resolved photoemission

17AU007 Joseph Shapter (Flinders University)
High resolution probing of carbon nanotube energy level structure

17AU008 Bumjoon Kim (Pohang University of Science and Technology)
Investigation of the origin of the pseudogap and *d*-wave gap in Ruddlesden-Popper series iridates

17AU009 Takayasu Kawasaki (Tokyo University of Science)
Structural analysis of lysozyme by using VUVCD spectroscopy

17AU010 Takayoshi Yokoya (Okayama University)
Electronic structure study of functional materials at BL-5(FY2017)

17AU011 Kensei Kobayashi (Yokohama National University)
Vacuum-ultraviolet circular dichroism analysis of homo-chirality of amino acid thin films emerged from circularly-polarized light irradiation

17AU012 Phil King (University of St. Andrews)
Detangling orbital textures and circular dichorism of the charge-density wave TMD, VSe_2

17AU013 Tetsuya Sato (Keio University)
Observation of *d* electron quantum-well states in Pd(100) ultrathin films

17AU014 Yudai Izumi (Hiroshima University)
VUV-CD spectroscopy of a tumor suppressor protein

17AU015 Ya Feng (Hiroshima University)
ARPES study of a Dirac semimetal candidate :PtBi 2

17AU017 Mohammed A. E. Sallam (Alexandria University)
Contributions of anomeric *C*-nucleoside triazole analogs synchrotron radiation to circular dichroism in vacuum-ultraviolet region

17AU018 Yuka Horikawa (Yamaguchi University)
The electronic states of D/L amino acid absorbed on WO_3

17AU019 Shiv Kumar (Hiroshima University)
X-ray magnetic circular dichroism study of $EU_2Ti_2O_7$ and hybrid $Eu_{2-x}TM_xTi_2O_7$ Pyrochlore

17AU020 Taro Masuda (Kyoto University)
Investigation for the activation mechanism of type 3 copper proteins by vacuum ultraviolet circular dichroism spectroscopy.

17AU021 Yitao Cui (University of Tokyo)
The interaction of water and Li ion in hydrate melt studied by soft X-ray absorption spectroscopy

17AU022 Jin-Hong Kim (KAERI)
Structural changes of histone core proteins by chromatin remodeling in DNA damage response of *Arabidopsis thaliana*

17AU023 Masato Sakano (University of Tokyo)
Observation of topological surface state in palladium-bismuth compound superconductor

17AU024 Keun Su Kim (Yonsei University)
Electron-phonon interaction in surface-doped black phosphorus

17AU025 Iwao Matsuda (University of Tokyo)
Direct observation of semimetal-to-semiconductor transition in Bi thin films by high-resolution ARPES

17AU026 Ya Feng (Hiroshima University)
Growth of magnetic hydrogenated silicene

17BG001 Reiko Urade (Kyoto University)
Structural analysis of plant ER proteins assisting the folding of food proteins by vacuum ultraviolet circular dichroism spectroscopy

17BG002 Shinya Yagi (Nagoya University)
Sulfur K-edge NEXAFS measurement for vulcanized squalene

17BG003 Kyunghoi Kim (Pukyong National University)
Mechanism of phosphate and hydrogen sulfide removal with oyster shells

17BG005 Koji Miyamoto (Hiroshima University)
Observation of electronic structure of oxdized surface on W(100)

17BG007 Nao Tsunoji (Hiroshima University)
XAFS characterization of transition metal within ordered metal oxide

17BG008 Ya Feng (Hiroshima University)
ARPES study of a Dirac semimetal candidate : cubic structure of $PtBi_2$

17BG009 Ya Feng (Hiroshima University)
ARPES study of magnetic hydrogen silicene

17BG010 Yuka Horikawa (Yamaguchi University)
Developments of apparatus for soft X-ray absorption experiments under atmospheric He environment

17BG011 Satoshi Asaoka (Kobe University)
Identification of organic sulfur species in marine sediments from Seto Inland Sea using XAFS

17BG012 Shinji Kuroda (University of Tsukuba)
ARPES measurements on mixed crystals and hybrid structures of topological crystalline insulator SnTe

17BG013 Shin-ichi Wada (Hiroshima University)
Evaluation of molecular conductivity in conductive aromatic molecules by means of resonant Auger spectroscopy

17BG014 Shin-ichi Wada (Hiroshima University)
Evaluation of molecular conductivity in conductive aromatic molecules by means of X-ray absorption

17BG015 Baojie Feng (Hiroshima University)
ARPES study of the electronic structure of monolayer phosphorus

17BG016 Baojie Feng (Hiroshima University)
Spin textures in a monolayer ferromagnetic material

17BG017 Tetsuro Ueno (QST)
Probing multiscale fluctuations in spin, orbital, and charge degrees of freedom for a quantum critical Kondo lattice $Ce[Cu_{0.6}Co_{0.4}]_5$

17BG018 Alexander Grüneis (University of Cologne)
Semiconductor to metal transition and spin-orbit coupling in boron doped graphene nanoribbons

17BG019 Alexander Shinkin (Saint Petersburg University)
In-plane and out-of-plane magnetization in topological insulators and BiTeI doped by magnetic rare-earth metals (Gd,Dy) indicated by in-plane k_{II}-shift of the Dirac states and opening of the gap at the Dirac point at different magnetic atom concentration

17BG020 Alexander Shinkin (Saint Petersburg University)
Analysis of the Dirac cone structure characteristic for topological phase in graphene on Pt(111) by deposition and intercalation of Bi

17BG021 Yang Liu (Zhejiang University)
Probing correlated topological state in YbPtBi and related compounds

17BG022 Phil King (University of St. Andrews)
Spin-orbital textures in non-symmorphic semimetals

17BG023 Shaolong He (Chinese Academy of Science)
Investigations of the interplay between magnetism and superconductivity in EuFeAs122 superconductors

17BG024 Yoshihisa Matsumoto (Tokyo Institute of Technology)
Structural basis for the heat sensitivity of DNA double-strand break repair protein Ku

17BG025 Kentaro Fujii (QST)
VUV-CD measurements of proteins regarding a repair of DNA double strand breakage

17BG026 Teppei Yoshida (Kyoto University)
ARPES study of the metal-insulator transition in $Ca_3Ru_2O_7$ induced by Ti-doping

17BG028 Akio Kimura (Hiroshima University)
Surface spin polarization measurement of Dirac line node semimetals studied by spin-resolved ARPES

17BG029 Akio Kimura (Hiroshima University)
Peculiar topology of non-symmorphic crystals revealed by synchrotron radiation ARPES

17BG030 Akio Kimura (Hiroshima University)
A to plogy in half-Heusler compounds containing rare-earth elements revealed by synchrotron radiation ARPES

17BG031 Daniel Dessau (University of Colorado, Boulder)
ARPES studies of bandstructure and pairing interactions in new organic high ternperature superconductors

17BG032 Shinjiro Hayakawa (Hiroshima University)
Thermal denaturation of rubber and sulfur K-edge XAFS analysis

17BG033 Shinjiro Hayakawa (Hiroshima University)
Developments of simultaneous measurements of XFY and CEY under grazing incidence condition

17BG034 Yudai Izumi (Hiroshima University)
VUV-CD spectroscopy of structural alterations of histones induced by DNA lesions

17BG035 Shinya Hosokawa (Kumamoto University)
Valence-band electronic states of Mg alloys with long period stacking order IV

17BG036 Shiv Kumar (Hiroshima University)
APRS study of gd-doped topological insulators Bi_2Te_3 and Bi_2Se_3

17BG037 Hitoshi Sato (Hiroshima University)
Angle-resolved photoelectron spectroscopy of Kondo-lattice systems $YbNi_2X_2$(X=Ge, Si) II

17BG038 Hitoshi Sato (Hiroshima University)
Ca-substitution effect on electronic state of Kondo insulator YbB_{12}

17BG039 Takayoshi Yokoya (Okayama University)
Electronic structure study of functional materials at BL-5(FY2017, Latter period)

17BG041 Akihiro Ino (Hiroshima University)
Study of Cu-site substitution effect in $Bi_2Sr_2Ca(Cu_{1-x}X_x)_2O_{8+\delta}$ (X = Co, Ni) by using high-resolution all-around gap mapping

17BU001 Koji Miyamoto (Hiroshima University)
Spin-polarized Dirac-con surface state modified by exchange interaction for Ni on W(110)

17BU002 Markus Donath (Westfälische Wilhelms-Universität)
Interplay of exchange and spin-orbit interaction for interface states in Ni/W(110)

17BU003 Slavomír Nemšák (Forschungszentrum Jülich)
Interplay of exchange and spin-orbit interaction for interface states in Ni/W(110)

17BU004 Guodong Liu (Chinese Academy of Science)
An ARPES study on the new Fermion in ZrTe

17BU005 Guodong Liu (Chinese Academy of Science)
Direct Experimental Verification on spin-resolved Valley Structure in two-dimensional MX2 (M = Mo, W; X = S,Se) semiconductors

17BU006 Masashi Arita (Hiroshima University)
Angle-resolved photoemission study of $Sm_{1-x}Yb_xB_6$

17BU007 Eike Fabian Schwier (Hiroshima University)
Correlation effects around the bulk X-point of ferromagnetic Nickel

17BU008 Eike Fabian Schwier (Hiroshima University)
Symmetry and k-dependence of the self-energy in Ni(100)

17BU009 Eike Fabian Schwier (Hiroshima University)
Using surface core-level shifts as a local probe of the band bending model in Bi_2Se_3

17BU010 Andrés F. Santander-Syro (Université Paris-Sud)
Spin structure of the 2D electron gas at the magnetically tunable EuO/SrTiO3 interface

17BU011 Andrev Kamilievich Kaveev
(Ioffe Physical-Technical Institute of the Russian Academy of Sciences)
XAS, XMCD and ARPES studies of Co and $Co_{40}Fe_{40}B_{20}$ ultrathin films on Bi_2Te_3 for spintronic applications

17BU012 Masaki Mizuguchi (Tohoku University)
Magnetic circular dichroism in $L1_0$-type FeNi ferromagnetic powders

17BU013 Andrev Kamilievich Kaveev
(Ioffe Physical-Technical Institute of the Russian Academy of Sciences)
ARPES studies of Co and $Co_{40}Fe_{40}B_{20}$ ultrathin films on Bi_2Te_3 forspintronic applications

17BU014 Masahiro Hara (Kumamoto University)
Magnetic property of nickel hydroxide nanosheets

17BU015 Heun Tae Lee (Osaka University)
Photoelectron spectroscopy of thin-film beta tungsten

17BU016 Koichi Matsuo (Hiroshima University)
Structural analysis of membrane protein using vacuum-ultraviolet circular dichroism spectroscopy

17BU017 Tatsuo Nehira (Hiroshima University)
Detemination of absolute configurations for chiral allenes by utilizeing vacuum ultraviolet circular dichroism (VUVCD)

17BU018 Masahito Niibe (University of Hyogo)
Soft X-ray absorption spectroscopy of organic / inorganic composite perovskite solar cell materials using He pass

17BU019 Kazuyuki Sakamoto (Chiba University)
Investigation of the electronic structure of $MoTe_2$ using micro-ARPES

17BU020 Alexander Shinkin (Saint Petersburg University)
Comparative study of the surface magnetism developed in magnetically-doped and magnetically-ordered topological insulators and BiTeI with variation of magnetic atom concentration, stoichiometry and magnetic ordering

17BU021 Shiv Kumar (Hiroshima University)
X-ray magnetic circular dichroism stufy of $0.7BiFeO_3$-$0.3TbMnO_3$ composite

17BU022 Galif Kutluk (Hoten teachers college)
Resonant photoemission spectroscopy of Ce single crystal film

17BU023 Wien Frank (Synchrotron SOLEIL)
Calibration and standardization comparison

17BU024 Sumera Shimizu (DENSO Corporation)
Electronic Structures of Graphite Electrodes for Vehicle mot (Inverse Photoelectron Spectroscopy)

17BU025 Xingjiang Zhou (Chinese Academy of Science)
ARPES on Candidates of Double Weyl Fermion Systems

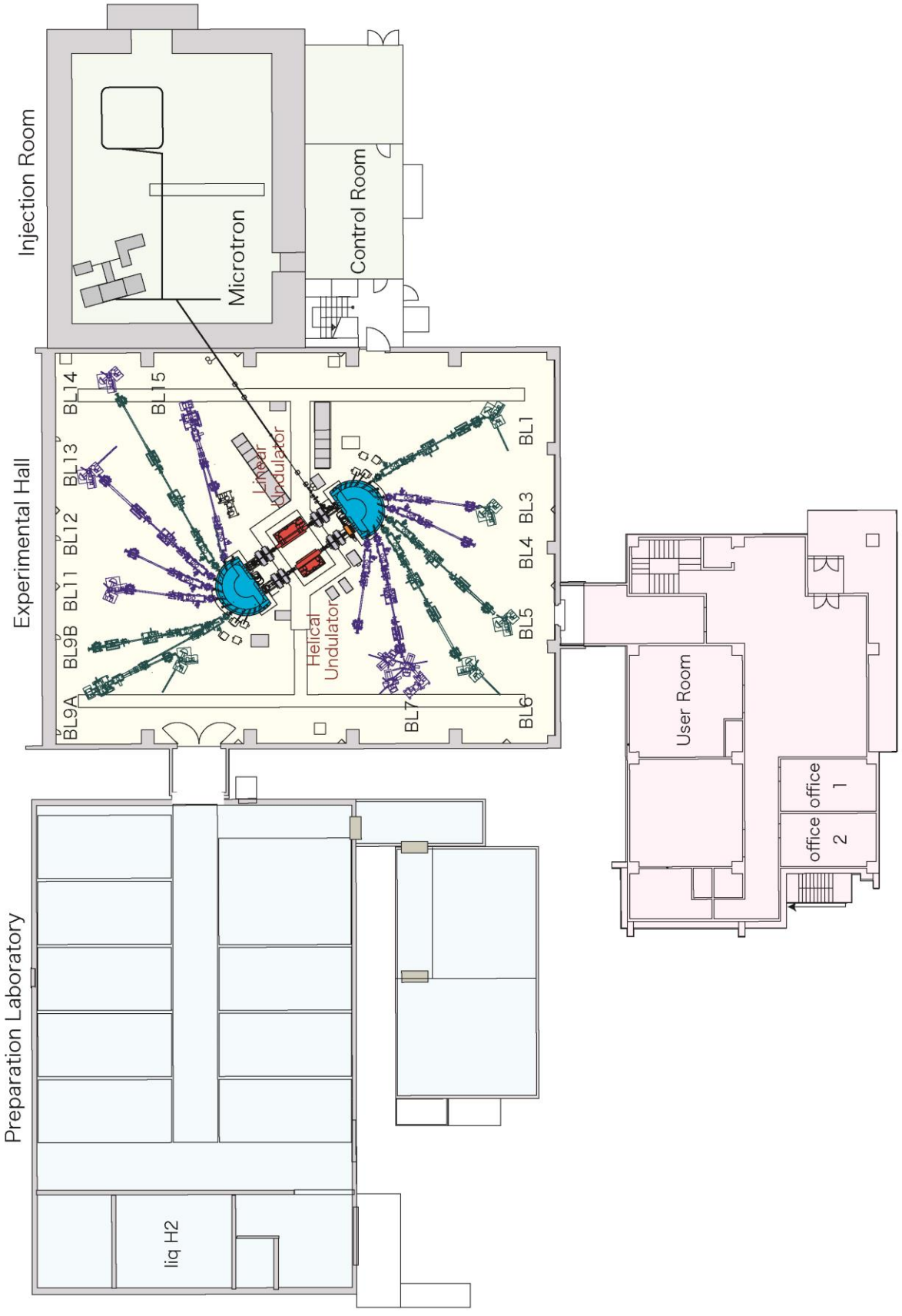
Symposium

The 22nd Hiroshima International Symposium on Synchrotron Radiation

— Progress in Materials and Biomolecular Sciences with VUV-SX Synchrotron Radiation —

Mrach 8 – Mrach 9, 2018, Faculty Club, Hiroshima University

Plan of the Building



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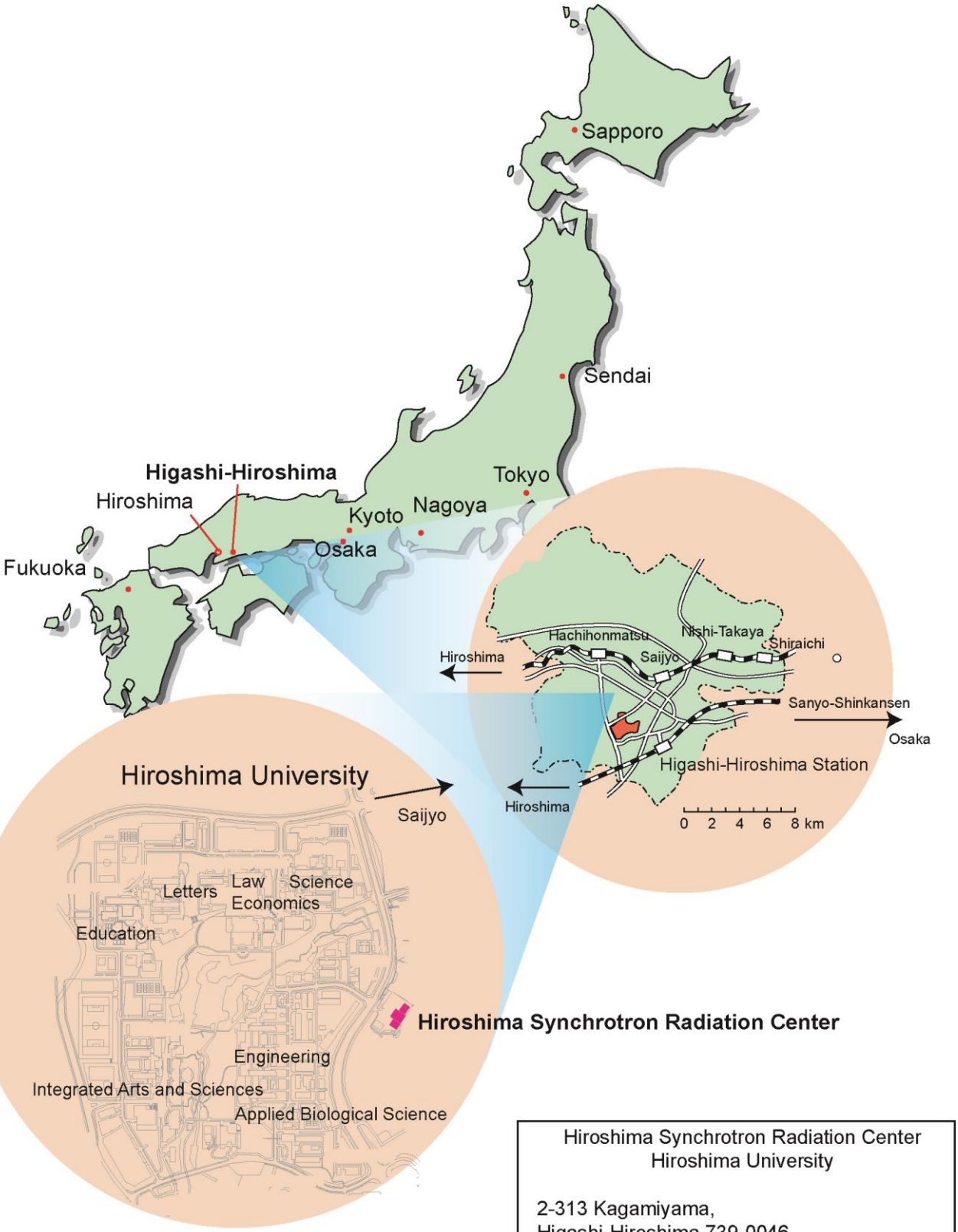

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