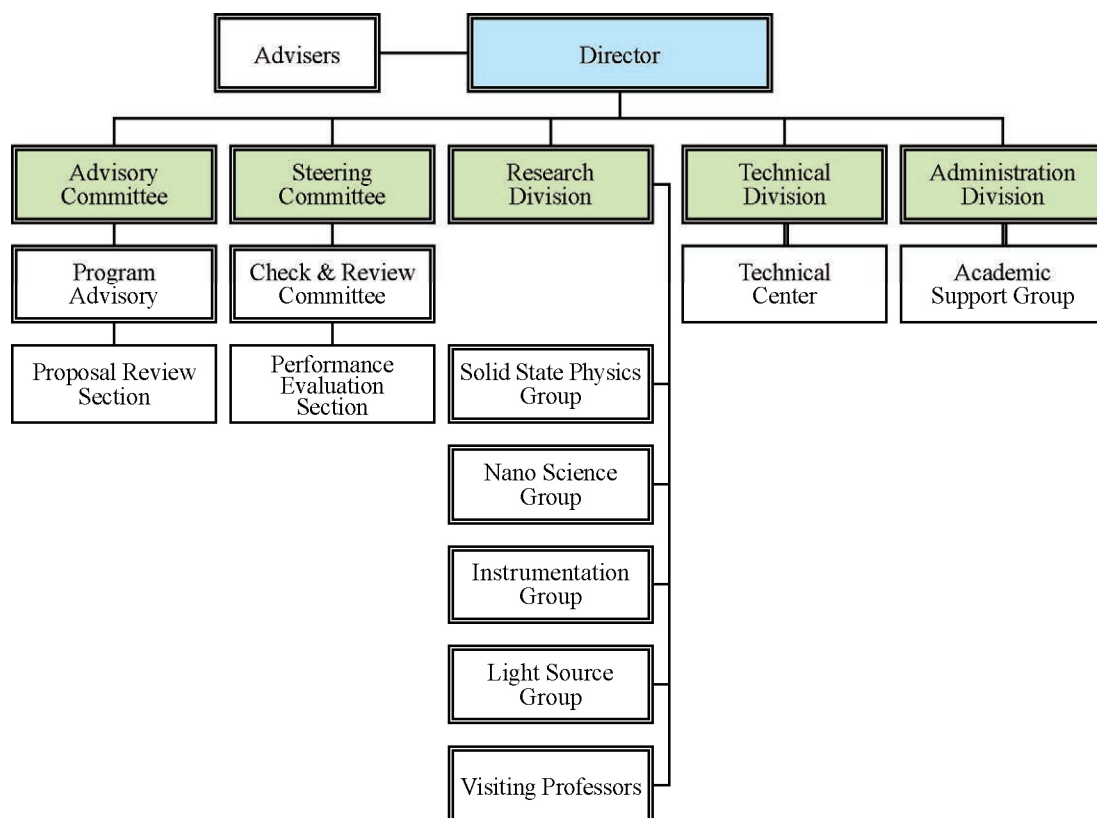


# Appendices



# Organization



**Fig. 1:** Organization chart of HiSOR

## Director

NAMATAME, Hirofumi      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 Science and Technology  
 Emeritus Professor, The University of Tokyo

## **Staff Members**

NAMATAME, Hirofumi	Director, Professor
SHIMADA, Kenya	Vice Director, Professor
KIMURA, Akio	Vice Director, Professor (Graduate School of Science)
SASAKI, Shigemi	Professor
TANIGUCHI, Masaki	Professor (Special Appointment)
SATO, Hitoshi	Associate Professor
OKUDA, Taichi	Associate Professor
SAWADA, Masahiro	Associate Professor
INO, Akihiro	Associate Professor (Special Appointment)
KUTLUK, Galif	Associate Professor (Special Appointment)
MIYAMOTO, Kouji	Assistant Professor
IWASAWA, Hideaki	Assistant Professor
MATSUO, Koichi	Assistant Professor
SCHWIER Eike Fabian	Assistant Professor
GOTO, Kiminori	Engineer
ARITA, Masashi	Engineer
HORI, Toshitada	Visiting Professor
KOBAYASHI, Yukinori	Visiting Professor
KOBAYASHI, Keisuke	Visiting Professor
GEKKO, Kunihiro	Visiting Professor
UEDA, Yoshifumi	Visiting Professor
SAKAMOTO, Kazuyuki	Visiting Professor
MATSUDA, Iwao	Visiting Associate Professor
MIMURA, Kojiro	Visiting Associate Professor
FUJIMORI, Shin-ichi	Visiting Associate Professor
MURAYAMA, Tomoko	Technical Staff
SASAKI, Masahide	Supervisor, Academic Support Group
SHINNO, Naoko	Secretary
SHIMOKUBO, Harumi	Secretary

## **Steering Committee**

NAMATAME, Hirofumi*	HiSOR
SHIMADA, Kenya	HiSOR
KIMURA, Akio	HiSOR, Graduate School of Science
SASAKI, Shigemi	HiSOR
TANIGUCHI, Masaki	HiSOR
SATO, Hitoshi	HiSOR
OKUDA, Taichi	HiSOR

SAWADA, Masahiro	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, Emeritus Professor, University of Tokyo

*\*Chair Person*

### **Check & Review Committee**

SASAKI, Shigemi*	HiSOR
SHIMADA, Kenya	HiSOR
KIMURA, Akio	HiSOR, Graduate School of Science
SATO, Hitoshi	HiSOR
OKUDA, Taichi	HiSOR
SAWADA, Masahiro	HiSOR
HIRAYA, Atsunari	Graduate School of Science
SAKAGUCHI, Koji	Academic Support Group
YAMAMOTO, Naofumi	Academic Support Group
SASAKI, Masahide	Academic Support Group

*\*Chair Person*

### **Advisory Committee**

NAMATAME, Hirofumi	HiSOR
KIMURA, Akio*	HiSOR, Graduate School of Science
SHIMADA, Kenya	HiSOR
SASAKI, Shigemi	HiSOR
SATO, Hitoshi	HiSOR
OKUDA, Taichi	HiSOR
SAWADA, Masahiro	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 Applied Physics, Chinese Academy of

SODA, Kazuo	Sciences, China
SHIN, Shik	Nagoya University
KATOH, Masahiro	The University of Tokyo
NAMBA, Hidetoshi	National Institutes of Natural Sciences
KAMADA, Masao	Ritsumeikan University
	Emeritus Professor, Saga University

*\*Chair Person*

### **Program Advisory Committee**

SHIMADA, Kenya*	HiSOR
KIMURA, Akio	HiSOR, Graduate School of Science
SATO, Hitoshi	HiSOR
OKUDA, Taichi	HiSOR
SAWADA, Masahiro	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	Gunma University

*\*Chair Person*

### **Visiting Scientists**

SUMIDA, Hirosuke	Technical Research Center, Mazda Motor Co.
SENBA, Shinya	Ube National College of Technology
YOKOYA, Takayoshi	Graduate School of Nature Science and Technology, Okayama University
MURAOKA, Yuji	Graduate School of Nature Science and Technology, Okayama University
WAKITA, Takanori	Graduate School of Nature Science and Technology, Okayama University
YAGI, Shinya	Nagoya University
AIURA, Yoshihiro	Advanced Industrial Science and Technology
HAPPO, Naohisa	Hiroshima City University
QIAO, Shan	Shanghai Institute of Applied Physics, Chinese Academy of Sciences, China
FENG, Donglai	Fudan University, China
XINGJIANG Zhou	Institute of Physics, Chinese Academy of Sciences, China
DONATH, Markus	University of Münster, Germany
SCHÖNHENSE, Gerd	University of Mainz, Germany

## **Cooperative Research Staffs (Faculty Members)**

INUI, Masanori	Faculty of Integrated Arts and Sciences
HIRAYA, Atsunari	Graduate School of Science
MARUYAMA, Hiroshi	Graduate School of Science
KUROIWA, Yoshihiro	Graduate School of Science
KIMURA, Akio	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
MAGOME, Eisuke	Graduate School of Science
TAKABATAKE, Toshiro	Graduate School of Advanced Sciences of Matter
TANAKA, Arata	Graduate School of Advanced Sciences of Matter
SASAKI, Gen	Graduate School of Engineering
HAYAKAWA, Shinjiro	Graduate School of Engineering
UENO, Satoshi	Faculty of Applied Biological Science
MATOBA, Yasuyuki	Graduate School of Biomedical Science

## List of Publications

### **Solution structures of methyl aldopyranosides revealed by vacuum-ultraviolet electronic circular-dichroism spectroscopy**

K. Matsuo, H. Namatame, M. Taniguchi, K. Gekko  
Biomedical Spectroscopy and Imaging **4**(3), 269 (2015).

### **Electronic structure reconstruction across the antiferromagnetic transition in TaFe<sub>1.23</sub>Te<sub>3</sub> spin ladder**

M. Xu, L.-M. Wang, R. Peng, Q.-Q. Ge, F. Chen, Z.-R. Ye, Y. Zhang, S.-D. Chen, M. Xia, R.-H. Liu, M. Arita, K. Shimada, H. Namatame, M. Taniguchi, M. Matsunami, S. Kimura, M. Shi, X.-H. Chen, W.-G. Yin, W. Ku, B.-P. Xie, D.-L. Feng  
Chinese Physics Letters **23**(3), 027401 (2015).

### **Magnetic properties of iron ultrathin films intercalated in graphene/Ni(111)**

W. Tadano, M. Sawada, H. Namatame, M. Taniguchi  
e-Journal of Surface Science and Nanotechnology **13**, 312 (2015).

### **Spectroscopic and morphological studies on interaction between gold nanoparticle and liposome constructed with phosphatidylcholine**

C. Tsukada, T. Tsuji, K. Matsuo, T. Nomoto, G. Kutluk, M. Sawada, S. Ogawa, T. Yoshida, S. Yagi  
IOP Conference Series: Materials Science and Engineering **76**(1), 012001 (2015).

### **Double VLEED spin detectors for high-resolution three dimensional spin vectorial analysis of anisotropic Rashba spin splitting**

T. Okuda, K. Miyamoto, A. Kimura, H. Namatame, M. Taniguchi  
Journal of Electron Spectroscopy and Related Phenomena **201**, 23 (2015).

### **Spin polarization of surface states on W(110): combined influence of spin-orbit interaction and hybridization**

K. Miyamoto, A. Kimura, T. Okuda, M. Donath  
Journal of Electron Spectroscopy and Related Phenomena **201**, 53 (2015).

### **The Rashba-split surface state of Sb<sub>2</sub>Te<sub>3</sub>(0001) and its interaction with bulk states**

C. Seibel, H. Maass, H. Bentmann, J. Braun, K. Sakamoto, M. Arita, K. Shimada, J. Minar, H. Ebert, F. Reinert  
Journal of Electron Spectroscopy and Related Phenomena **201**, 110 (2015).

### **Mechanism of intrinsic dipole moment induction in quantum paraelectric SrTiO<sub>3</sub>**

S. Kawakami, N. Nakajima, M. Nakatake, N. Kawamura, M. Mizumaki, H. Maruyama  
Japanese Journal of Applied Physics **54**(10), 10NC03 (2015).

### **Vacuum-ultraviolet circular dichroism spectra of Escherichia coli dihydrofolate reductase and its mutants: contributions of phenylalanine and tyrosine side chains and exciton coupling of two tryptophan side chains**

E. Ohmae, S. Tanaka, Y. Miyashita, K. Katayanagi, K. Matsuo  
The Journal of Physical Chemistry B **119**(41), 13002 (2015).

### **Drastic change in density of states upon martensitic phase transition for metamagnetic shape memory alloy Ni<sub>2</sub>Mn<sub>1+x</sub>In<sub>1-x</sub>**

S. Y. Zhu, M. Ye, K. Shirai, M. Taniguchi, S. Ueda, Y. Miura, M. Shirai, R. Y. Umetsu, R. Kainuma, T. Kanomata, A. Kimura  
Journal of Physics: Condensed Matter **27**(36), 362201 (2015).



### **Photoemission study on $\text{YbZn}_{1-x}\text{Sn}_x\text{Cu}_4$**

H. Sato, Y. Utsumi, J. Kodama, M. Arita, H. Anzai, K. Mimura, K. Shimada, S. Ueda, N. Tsujii, H. Namatame, M. Taniguchi

Journal of Physics: Conference Series **592**, 012016 (2015).

### **Oxygen 2p partial density of states and bond angles around O atoms in $\text{SiO}_2$ glass**

S. Hosokawa, H. Sato, K. Mimura, Y. Tezuka, D. Fukunaga, Y. Matsuzaki, F. Shimojo

Journal of the Physical Society of Japan **84**(2), 024605 (2015).

### **Comparative ARPES Study on Iron–Platinum–Arsenide Superconductor $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)(\text{Fe}_{2-x}\text{Pt}_x\text{As}_2)_5$ ( $x = 0.25$ and $0.42$ )**

M. Sunagawa, R. Yoshida, T. Ishiga, K. Tsubota, T. Jabuchi, J. Sonoyama, S. Kakiya, D. Mitsuoka, K. Kudo, M. Nohara, K. Ono, H. Kumigashira, T. Oguchi, T. Wakita, Y. Muraoka, T. Yokoya

Journal of the Physical Society of Japan **84**(5), 055001 (2015).

### **Design and performance of the APPLE-Knot undulator**

F. H. Ji, R. Chang, Q. G. Zhou, W. Zhang, M. Ye, S. Sasaki, S. Qiao

Journal of Synchrotron Radiation **22**, 901 (2015).

### **Monolayer $\text{PtSe}_2$ , a new semiconducting transition-metal-dichalcogenide, epitaxially grown by direct selenization of Pt**

Y. Wang, L. Li, W. Yao, S. Song, J. T. Sun, J. Pan, X. Ren, C. Li, E. Okunishi, Y.-Q. Wang, E. Wang, Y. Shao, Y. Y. Zhang, H.-T. Yang, E. F. Schwier, H. Iwasawa, K. Shimada, M. Taniguchi, Z. Cheng, S. Zhou, S. Du, S. J. Pennycook, S. T. Pantelides, H.-J. Gao

Nano Letters **15**(6), 4013 (2015).

### **Topologically protected surface states in a centrosymmetric superconductor $\beta\text{-PdBi}_2$**

M. Sakano, K. Okawa, M. Kanou, H. Sanjo, T. Okuda, T. Sasagawa, K. Ishizaka

Nature Communications **6**, 8595 (2015).

### **Spectroscopic evidence for negative electronic compressibility in a quasi-three-dimensional spin-orbit correlated metal**

J. He, T. Hogan, T. R. Mion, H. Hafiz, Y. He, J. D. Denlinger, S.-K. Mo, C. Dhital, X. Chen, Q. Lin, Y. Zhang, M. Hashimoto, H. Pan, D. H. Lu, M. Arita, K. Shimada, R. S. Markiewicz, Z. Wang, K. Kempa, M. J. Naughton, A. Bansil, S. D. Wilson, R.-H. He

Nature Materials **14**(16), 577 (2015).

### **Structural and electronic properties of manganese-doped $\text{Bi}_2\text{Te}_3$ epitaxial layers**

J. Růžička, O. Caha, V. Holý, H. Steiner, V. Volobuev, A. Ney, G. Bauer, T. Duchoň, K. Veltruská, I. Khalakhan, V. Matolín, E. F. Schwier, H. Iwasawa, K. Shimada, G. Springholz

New Journal of Physics **17**(1), 013028 (2015).

### **Electronic structure of the heavy-fermion caged compound $\text{Ce}_3\text{Pd}_{20}\text{X}_6$ ( $\text{X}=\text{Si}, \text{Ge}$ ) studied by density functional theory and photoelectron spectroscopy**

H. Yamaoka, E. F. Schwier, M. Arita, K. Shimada, N. Tsujii, I. Jarrige, J. Jiang, H. Hayashi, H. Iwasawa, H. Namatame, M. Taniguchi, H. Kitazawa

Physical Review B **91**(11), 115139 (2015).

### **Spectroscopic evidence of band Jahn-Teller distortion upon martensitic phase transition in Heusler-type $\text{Ni-Fe}(\text{Co})\text{-Ga}$ ferromagnetic shape-memory alloy films**

K. Sumida, K. Shirai, S. Zhu, M. Taniguchi, M. Ye, S. Ueda, Y. Takeda, Y. Saitoh, I. R. Aseguinolaza, J. M. Barandiaran, V. A. Chernenko, A. Kimura

Physical Review B **91**(13), 134417 (2015).

### **Tunable spin current regime due to bulk insulating property in novel topological insulator $\text{TI}_{1-x}\text{Bi}_{1+x}\text{Se}_{2-\delta}$**

K. Kuroda, G. Eguchi, K. Shirai, M. Shiraishi, M. Ye, K. Miyamoto, T. Okuda, S. Ueda, M. Arita, H. Namatame, M. Taniguchi, Y. Ueda, A. Kimura

Physical Review B **91**(7), 205306 (2015).

### **Three-dimensional momentum-resolved electronic structure of 1T-TiSe<sub>2</sub>: a combined soft-x-ray photoemission and density functional theory study**

Z. Vydrova, E. F. Schwier, G. Monney, T. Jaouen, E. Razzoli, C. Monney, B. Hildebrand, C. Didiot, H. Berger, T. Schmitt, V. N. Strocov, F. Vanini, P. Aebi

Physical Review B **91**(23), 235129 (2015).

### **Fermi surfaces and orbital polarization in superconducting $\text{CeO}_{0.5}\text{F}_{0.5}\text{BiS}_2$ revealed by angle-resolved photoemission spectroscopy**

T. Sugimoto, D. Ootsuki, C. Morice, E. Artacho, S.S. Saxena, E.F. Schwier, M. Zheng, Y. Kojima, H. Iwasawa, K. Shimada, M. Arita, H. Namatame, M. Taniguchi, M. Takahashi, N.L. Saini, T. Asano, R. Higashinaka, T.D. Matsuda, Y. Aoki, T. Mizokawa

Physical Review B **92**(4), 041113(R) (2015).

### **Possible role of bonding angle and orbital mixing in iron pnictide superconductivity: comparative electronic structure studies of $\text{LiFeAs}$ and $\text{Sr}_2\text{VO}_3\text{FeAs}$**

Y. K. Kim, Y. Y. Koh, W. S. Kyung, G. R. Han, B. Lee, K. H. Kim, J. M. Ok, J. S. Kim, M. Arita, K. Shimada, H. Namatame, M. Taniguchi, S.-K. Mo, C. Kim

Physical Review B **92**(4), 041116(R)/5p (2015).

### **Lifshitz transition and Van Hove singularity in a three-dimensional topological Dirac semimetal**

S.-Y. Xu, C. Liu, I. Belopolski, S. K. Kushwaha, R. Sankar, J. W. Krizan, T.-R. Chang, C. M. Polley, J. Adell, T. Balasubramanian, K. Miyamoto, N. Alidoust, G. Bian, M. Neupane, H.-T. Jeng, C.-Y. Huang, W.-F. Tsai, T. Okuda, A. Bansil, F. C. Chou, R. J. Cava, H. Lin, M. Z. Hasan

Physical Review B **92**(7), 075115 (2015).

### **Monolayer charge-neutral graphene on platinum with extremely weak electron-phonon coupling**

W. Yao, E. Wang, K. Deng, S. Yang, W. Wu, A. V. Fedorov, S.-K. Mo, E. F. Schwier, M. Zheng, Y. Kojima, H. Iwasawa, K. Shimada, K. Jiang, P. Yu, J. Li, S. Zhou

Physical Review B **92**(11), 115421 (2015).

### **Tunable spin helical Dirac quasiparticles on the surface of three-dimensional HgTe**

C. Liu, G. Bian, T.-R. Chang, K. Wang, S.-Y. Xu, I. Belopolski, I. Miotkowski, H. Cao, K. Miyamoto, C. Xu, C. E. Matt, T. Schmitt, N. Alidoust, M. Neupane, H.-T. Jeng, H. Lin, A. Bansil, V. N. Strocov, M. Bissen, A. V. Fedorov, X. Xiao, T. Okuda, Y. P. Chen, M. Z. Hasan

Physical Review B **92**(11), 115436 (2015).

### **Spin-orbit influence on $d_z^2$ -type surface state at Ta(110)**

H. Wotelen, K. Miyamoto, H. Mirhosseini, T. Okuda, A. Kimura, D. Thonig, J. Henk, M. Donath

Physical Review B **92**(16), 161408(R) (2015).

### **Temperature evolution of correlation strength in the superconducting state of high- $T_c$ cuprates**

S. Kudo, T. Yoshida, S. Ideta, K. Takashima, H. Anzai, T. Fujita, Y. Nakashima, A. Ino, M. Arita, H. Namatame, M. Taniguchi, K. M. Kojima, S. Uchida, A. Fujimori

Physical Review B **92**(19), 195135 (2015).

### **Photon energy dependence of angle-resolved photoemission spectroscopy in graphene**

P. Ayria, A. R. T. Nugraha, E. H. Hasdeo, T. R. Czank, S. Tanaka, R. Saito

Physical Review B **92**(19), 195148 (2015).

**Pressure and temperature dependence of the Ce valence and c-f hybridization gap in CeT<sub>2</sub>In<sub>5</sub> (T=Co, Rh, Ir) heavy fermion superconductors**

H. Yamaoka, Y. Yamamoto, E. F. Schwier, F. Honda, Y. Zekko, Y. Ohta, J.-F. Lin, M. Nakatake, H. Iwasawa, M. Arita, K. Shimada, N. Hiraoka, H. Ishii, K.-D. Tsuei, J. Mizuki  
Physical Review B **92**(23), 235110 (2015).

**Connection of a topological surface state with the bulk continuum in Sb<sub>2</sub>Te<sub>3</sub>(0001)**

C. Seibel, H. Bentmann, J. Braun, J. Minár, H. Maaß, K. Sakamoto, M. Arita, K. Shimada, H. Ebert, F. Reinert  
Physical Review Letters **114**(6), 066802 (2015).

**Isotope effect on the circular dichroism spectrum of methyl  $\alpha$ -D-glucopyranoside in aqueous solution**

Y. Kanematsu, Y. Kamiya, K. Matsuo, K. Gekko, K. Kato M. Tachikawa  
Scientific Reports **5**, 17900 (2015).

**Electronic structure of Mott-insulator CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub>: photoemission and inverse photoemission study**

H. J. Im, M. Iwataki, S. Yamazaki, T. Usui, S. Adachi, M. Tsunekawa, T. Watanabe, K. Takegahara, S. Kimura, M. Matsunami, H. Sato, H. Namatame, M. Taniguchi  
Solid State Communications **217**, 17 (2015).

**Electronic structure of YbNiX<sub>3</sub> (X=Si, Ge) studied by hard x-ray photoemission spectroscopy**

H. Sato, Y. Utsumi, J. Kodama, H. Nagata, M. A. Avila, R. A. Ribeiro, K. Umeo, T. Takabatake, K. Mimura, S. Motonami, H. Anzai, S. Ueda, K. Shimada, H. Namatame, M. Taniguchi  
Physica Status Solidi C **12**, 620 (2015).

**Niphateolide A: isolation from the marine sponge Niphates olemda and determination of its absolute configuration by an ECD analysis**

H. Kato, T. Nehira, K. Matsuo, T. Kawabata, Y. Kobashigawa, H. Morioka, F. Losung, R. E. P. Mangindaan, N. J. Voogd, H. Yokosawa, S. Tsukamoto  
Tetrahedron **71**(38), 6956 (2015).

## List of Research Proposals

- 15-A-1 Satoshi Asaoka (Kobe University)  
Identifying sulfur species in marine sediments from Osaka Bay using XAFS
- 15-A-2 Jun'ichiro Mizuki (Kwansei Gakuin University)  
Angle-resolved photoelectron spectroscopy study on Ce1-2-10 systems
- 15-A-3 Hitoshi Yamaoka (RIKEN SPring-8 Center)  
Angle-resolved photoelectron spectroscopy of caged Ce and Yb compounds
- 15-A-4 Takashi Mizokawa (University of Tokyo)  
Eu 4d-4f resonant photoemission spectroscopy of  $\text{EuBiS}_2\text{F}$  and  $\text{Eu}_3\text{Bi}_2\text{S}_4\text{F}_4$
- 15-A-5 Takashi Mizokawa (University of Tokyo)  
Angle-resolved photoemission study of excitonic insulators and related materials
- 15-A-6 Takashi Mizokawa (University of Tokyo)  
Circularly-polarized spin-resolved photoemission study of triangular lattice superconductor  $\text{Ir}_{1-x}\text{Pt}_x\text{Te}_2$
- 15-A-7 Kousuke Oda (Hiroshima University)  
VUVCD analysis of C protein from Sendai virus
- 15-A-8 Koichi Matsuo (Hiroshima University)  
VUVCD study of conformations of glycoprotein depended on surface charges of liposomes
- 15-A-9 Koichi Matsuo (Hiroshima University)  
Secondary-structure analysis of membrane-bound protein by vacuum-ultraviolet circular dichroism
- 15-A-10 Koichi Matsuo (Hiroshima University)  
Conformation analysis of trehalose by vacuum-ultraviolet circular dichroism study
- 15-A-11 Shinya Hosokawa (Kumamoto University)  
Conduction-band electronic states of Mg alloys with long period stacking order
- 15-A-12 Shinya Hosokawa (Kumamoto University)  
Valence-band electronic states of Mg alloys with long period stacking order
- 15-A-13 Yasuyuki Maki (Gunma University)  
Effect of thermal history on rheological properties of mixed gels of (xanthan + galactomannan)
- 15-A-14 Toru Hirahara (Tokyo Institute of Technology)  
Spin- and angle-resolved photoemission spectroscopy of a topological insulator/magnetic insulator heterostructure
- 15-A-15 Takayoshi Yokoya (Okayama University)  
Photon-energy and polarization dependent angle-resolved photoemission spectroscopy of  $\text{K}_x\text{Fe}_{2-y}\text{Se}_2$
- 15-A-16 Shinichiro Tanaka (Osaka University)  
Intensity distribution of the photoelectron intensity from the Dirac cone of the graphene for the variable polarization of the incident photon
- 15-A-17 Shinichiro Tanaka (Osaka University)  
A direct measurement of electron-phonon scattering in the single-layer graphene by using ARPES

- 15-A-18 Takashi Komesu (University of Nebraska-Lincoln)  
(Spin polarized and) Symmetry dependent electronic structure of cobalt on WSe<sub>2</sub>
- 15-A-19 Takashi Komesu (University of Nebraska-Lincoln)  
(Spin polarized and) Symmetry dependent electronic structure of cobalt on WSe<sub>2</sub>
- 15-A-20 Andrés F. Santander-Syro (Université Paris-Sud(FR))  
Towards oxide-based spintronics: Study of spin-polarized states in 2D electron systems at the surface of transition-metal oxides
- 15-A-21 Kakiuchi Takuhiro (Ehime University)  
Growth process and physical property of ultrathin HfO<sub>2</sub> film grown on clean Si(110)-16 X 2 surface
- 15-A-22 Masahiro Sawada (Hiroshima University)  
Local magnetic moments of magnetic atomic intercalated in h-BN/Ni(111) structure
- 15-A-23 Masahiro Sawada (Hiroshima University)  
Structure and magnetic state of ultrathin magnetic clusters Co/Au(111)
- 15-A-24 Shuyun Zhou (Tsinghua University)  
Revealing the semimetallic to semiconducting transition in atomically thin transition metal dichalcogenide
- 15-A-25 Shuyun Zhou (Tsinghua University)  
Angle-resolved photoemission study of layered iridium ditelluride
- 15-A-26 Shuyun Zhou (Tsinghua University)  
Angle-resolved photoemission spectroscopic studies of 3D Dirac semimetal
- 15-A-27 Shinya Yagi (Nagoya University)  
Adsorption reaction study between sulfur-including molecule and metal nanoparticle fabricated by solution plasma method
- 15-A-28 Shinya Yagi (Nagoya University)  
Comparison study on XAFS measurement with SDD detector at BL-3
- 15-A-29 Kyoko Ishizaka (University of Tokyo)  
Observation of spin polarization in Bi-based superconductors
- 15-A-30 Akio Kimura (Hiroshima University)  
Polarization dependent ARPES study of black phosphorous single crystal and its alkaline metal adsorption
- 15-A-31 Akio Kimura (Hiroshima University)  
Polarization dependent high-resolution ARPES study of Dirac semimetals with a single 3D Dirac cone
- 15-A-32 Akio Kimura (Hiroshima University)  
High-resolution spin-resolved ARPES study of single crystalline chern semimetals
- 15-A-33 Taichi Okuda (Hiroshima University)  
Perpendicular magnetic anisotropy of Fe thin film on MgO(001) studied by Spin-resolved photoelectron spectroscopy
- 15-A-34 Sokolov Nikolai Semenovich (Ioffe Physical-Technical Institute of the Russian Academy of Sciences)  
XMCD study of magnetic proximity effect in Co (Ni)/Y<sub>3</sub>Fe<sub>5</sub>O<sub>12</sub> heterostructures
- 15-A-35 Shinji Kuroda (University of Tsukuba)  
ARPES measurements on the topological crystalline insulator SnTe films

- 15-A-36 Hendrik Bentmann (Julius-Maximilians University at Würzburg)  
Resonance photoelectron spectroscopy of strongly spin-orbit coupled surface states
- 15-A-37 Kouji Miyamoto (Westfälische Wilhelms-Universität)  
Observation of spin characterization of ferromagnetic Rashba system oxygen-covered Gd
- 15-A-38 Iwao Matsuda (University of Tokyo)  
Comprehensive study of Bi electronic states by high-resolution ARPES on Bi/Ge(111) and Cs/Bi/Ge(111)
- 15-A-39 Suyang Xu (Princeton University)  
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- 15-A-40 Suyang Xu (Princeton University)  
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- 15-A-41 Hitoshi Sato (Hiroshima University)  
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- 15-A-42 Hitoshi Sato (Hiroshima University)  
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- 15-A-43 Hitoshi Sato (Hiroshima University)  
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- 15-A-44 Hitoshi Sato (Hiroshima University)  
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- 15-A-45 Hitoshi Sato (Hiroshima University)  
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- 15-A-47 Takeshi Kondo (University of Tokyo)  
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- 15-A-48 Kentaro Fujii (Japan Atomic Energy Agency)  
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- 15-A-50 Kojiro Mimura (Osaka Prefecture University)  
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- 15-A-51 Hiroaki Anzai (Osaka Prefecture University)  
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- 15-A-52 Hiroaki Anzai (Osaka Prefecture University)  
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- 15-A-53 Hiroaki Anzai (Osaka Prefecture University)  
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- 15-A-54 Emilia Annese (Hiroshima University)  
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- 15-A-55 Munisa Nuermaimaiti (Hiroshima University)  
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- 15-A-56 Munisa Nuermaimaiti (Hiroshima University)  
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Spin-resolved study of a topological insulator superlattice at the 3D Dirac critical point
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- 15-A-68 Akihiro Ino (Hiroshima University)  
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- 15-A-69 Akihiro Ino (Hiroshima University)  
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- 15-A-73 Rui Wu (Chinese Academy of Sciences)  
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- 15-A-76 Hyeong-Do Kim (Center for Correlated Electron Systems)  
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- 15-B-1 Takayoshi Yokoya (Okayama University)  
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- 15-B-2 Nobuhito Inami (High Energy Accelerator Research Organization)  
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- 15-B-3 Eiji Ohmae (Hiroshima University)  
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- 15-B-4 Toshiharu Kadono (Ritsumeikan University)  
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- 15-B-5 Galif Kutluk (Hiroshima University)  
Electronic structure of rare earth metals and related oxides studied by X-ray magnetic circular dichroism spectroscopy II
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- 15-B-7 Kensei Kobayashi (Yokohama National University)  
Vacuum ultraviolet circular dichroism measurement of bio-organic materials irradiated by polarized quantum beams
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- 15-B-15 Kouji Miyamoto (Hiroshima University)  
Electronic structure of ferromagnetic Rashba system oxygen-covered Gd(0001)



- 15-B-16 Yasuyuki Maki (Gunma University)  
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- 15-B-17 Kensei Terashima (Okayama University)  
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- 15-B-22 Shin-ichi Wada (Hiroshima University)  
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- 15-B-23 Takayoshi Yokoya (Okayama University)  
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- 15-B-24 Tetsuya Sato (Keio University)  
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- 15-B-25 Shinjiro Hayakawa (Hiroshima University)  
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- 15-B-26 Shinjiro Hayakawa (Hiroshima University)  
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- 15-B-27 Shinjiro Hayakawa (Hiroshima University)  
X-ray fluorescence analysis of carbon, nitrogen and oxygen with a ultra-thin window detector

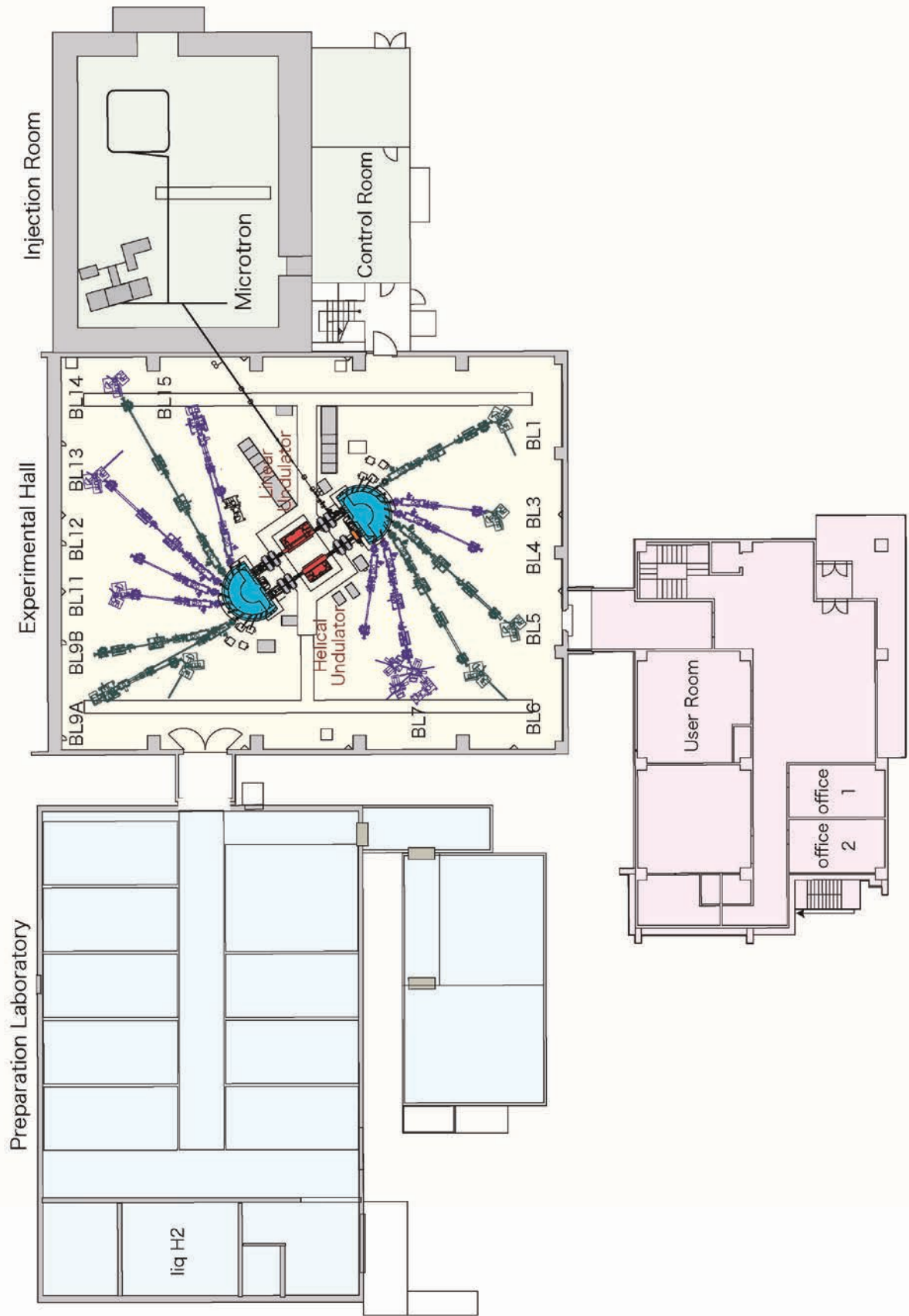
# Symposium

The 20th Hiroshima International Symposium on Synchrotron Radiation

— *Materials science using VUV-SX synchrotron radiation : future directions of HiSOR* —

March 10 – March 11, 2016, Hiroshima University Faculty Club

# Plan of the Building



# Location

