

# J-Physics 2017



JSPS



J-Physics

多極子伝導系の物理  
Physics of Conductive Multipole Systems

International Workshop on Multipole Physics and Related Phenomena

Sun. Sep. 24 – Thu. Sep. 28, 2017

## 24<sup>th</sup> Afternoon

16:00 – Registration

18:00 – Get-Together 12 Floor “Sky Banquet Room”

## Scientific Program

### 25<sup>th</sup> Morning Sessions

#### Opening Remark

8:30 – 8:50 Hisatomo Harima (Kobe University, Japan)

#### Session 1: Spin-Orbit Interaction I

Chair: Yoshio Kuramoto (KEK, Japan)

8:50 – 9:20 Michael R. Norman (Argonne National Laboratory, USA)

*Multipolar Order in  $Sr_2IrO_4$  and  $Cd_2Re_2O_7$*

9:20 – 9:50 Yukitoshi Motome (The University of Tokyo, Japan)

*Majorana fermions in Kitaev magnets*

9:50 – 10:10 Tong Zhang (Fudan University, China)

*STM study of surface electron-doped  $Sr_2IrO_4$*

10:10 – 10:30 Yogesh Singh (IISER Mohali, India)

*Kitaev Physics in Honeycomb Lattice Iridates*

10:30 – 11:00 *Break*

#### Session 2: Quantum Phase Transition

Chair: William Knafo (LNCMI-Toulouse, CNRS, France)

11:00 – 11:30 Manuel Brando (Technical University of Dresden, Germany)

*Quantum Multicritical Point in  $YbRh_2Si_2$*

11:30 – 12:00 Kazuhiko Deguchi (Nagoya University, Japan)

*Magnetic quasicrystal with Yb icosahedron*

12:00 – 12:20 Shinji Watanabe (Kyushu Institute of Technology, Japan)

*Quantum criticality universal to Yb-based quasicrystal and periodic crystal*

12:20 – 12:35 Shuntaro Sumita (Kyoto University, Japan)

*Superconductivity coexisting with magnetic multipole orders in Sr<sub>2</sub>IrO<sub>4</sub>*

12:35 – 14:00 *Lunch*

14:00 – 16:00 **Poster Presentation (Odd Number)**

16:00 - 16:30 *Break*

## 25<sup>th</sup> Afternoon Session

### Session 3: URu<sub>2</sub>Si<sub>2</sub>

Chair: John A. Mydosh (Leiden University, The Netherland)

16:30 – 17:00 Hiroaki Ikeda (Ritsumeikan Univeristy, Japan)

*Review of theory about URu<sub>2</sub>Si<sub>2</sub>*

17:00 – 17:30 William Knafo (LNCMI-Toulouse, CNRS, France)

*Field-induced spin-density wave in URu<sub>2</sub>Si<sub>2</sub>*

17:30 – 17:50 Shinsaku Kambe (ASRC, JAEA, Japan)

*NMR study of URu<sub>2</sub>Si<sub>2</sub>*

17:50 – 18:10 Nicholas P. Butch (NIST Center for Neutron Research, USA)

*Magnetic excitations in the hidden order and antiferromagnetic phases of URu<sub>2-x</sub>Fe<sub>x</sub>Si<sub>2</sub>*

## 26<sup>th</sup> Morning Sessions

### Session 4: Ferromagnetic Superconductor

- Chair: A. de Visser (University of Amsterdam, The Netherlands)
- 8:50 – 9:20 Georg Knebel (CEA Grenoble, France)  
*Uranium-based ferromagnetic superconductors*
- 9:20 – 9:50 Vladimir P. Mineev (CEA Grenoble, France)  
*Phase diagram of UCoGe*
- 9:50 – 10:10 Yo Tokunaga (ASRC, JAEA, Japan)  
*Reentrant superconductivity induced by quantum tricritical fluctuations in URhGe*
- 10:10 – 10:30 Yasuhiro Tada (The University of Tokyo, Japan)  
*Pairing symmetry and stripe state in ferromagnetic superconductor UCoGe*
- 10:30 - 11:00 *Break*

### Session 5: Superconductivity

- Chair: Elena Hassinger (MPI Dresden, Germany)
- 11:00 – 11:30 Michel Kenzelmann (PSI, Switzerland)  
*Possible magnetic quantum critical point in superconducting Nd-doped CeCoIn<sub>5</sub>*
- 11:30 – 11:50 Yusei Shimizu (Tohoku University, Japan)  
*Superconductivity and Non-Fermi-Liquid Behaviors in UBe<sub>13</sub> and Related compounds*
- 11:50 – 12:10 Takuya Nomoto (RIKEN, Japan)  
*Pairing symmetry and nodal structure in multi-orbital superconductors*
- 12:10 – 12:25 Ilya Sheikin (LNCMI-EMFL, CNRS, France)  
*Quantum criticality, superconductivity and Fermi surface dimensionality - comparison of CeIn<sub>3</sub>, CeRhIn<sub>5</sub>, and CePt<sub>2</sub>In<sub>7</sub>*
- 12:25 – 12:40 Kosmas Prassides (WPI-AIMR, Tohoku University, Japan)  
*Intermediate valency in hybrid f-/p-electron molecular materials*
- 12:40 – 13:00 **Group Photo**
- 13:00 – 14:20 *Lunch*
- 14:20 – 18:00 **Excursion** *Bus Tour for Yakebashiri Lava Flow*
- 18:30 – 21:00 **Banquet** *2 Floor “Dining Room Shiki”*

## 27<sup>th</sup> Morning Sessions

### Session 6: Parity Violation

Chair: Michael R. Norman (Argonne National Laboratory, USA)

- 8:50 – 9:20 Youichi Yanase (Kyoto University, Japan)  
*Exotic phases in artificial two-dimensional superconductors*
- 9:20 – 9:40 Tsutomu Nojima (Tohoku University, Japan))  
*Critical magnetic fields enhanced by spin-orbit coupling in electric-field-induced superconductors*
- 9:40 – 10:00 Jun-ichi Yamaura (Tokyo Institute of Technology, Japan)  
*Noncentrosymmetric parent phase in iron-based superconductor*
- 10:00 – 10:20 Srinivasan Ramakrishnan (Tata Institute of Fundamental Research, India)  
*Superconductivity at extremely low carrier density: Bismuth*
- 10:20 – 10:35 Robert Peters (Kyoto University, Japan)  
*Strong enhancement of the magnetoelectric effect in heavy-fermion system*
- 10:35 - 11:00 *Break*

### Session7: Multipole

Chair: Manuel Brando (Technical University of Dresden, Germany)

- 11:00 – 11:30 Hiroaki Kusunose (Meiji University, Japan)  
*Magnetoelectric responses induced by generalized multipole orders*
- 11:30 – 11:50 Satoru Hayami (Hokkaido University, Japan)  
*Emergent odd-parity multipoles by spontaneous parity breaking*
- 11:50 - 12:10 Florian Thöle (ETH Zürich, Switzerland)  
*First-principles calculations for magnetoelectric multipoles*
- 12:10 – 12:30 Takahiro Tomita (The University of Tokyo, Japan)  
*Recent Large anomalous Hall and Nernst effects at room temperature in antiferromagnet  $Mn_3Sn$*
- 12:30 – 12:50 Michi-To Suzuki (RIKEN, Japan)  
*Cluster multipole theory for macroscopic magnetization of antiferromagnetism: Application to anomalous Hall effect and recent progress*
- 12:50 – 14:00 *Lunch*
- 14:00 – 16:00 **Poster Presentation (Even Number)**

16:00 - 16:30     *Break*

## 27<sup>th</sup> Afternoon Session

### Session 8: New Compounds

Chair: Sergey L. Bud'ko (Iowa State University, USA)

- 16:30 – 16:50     Anne de Visser             (University of Amsterdam, The Netherland)  
*Superconductivity in topological half-Heusler compounds*
- 16:50 – 17:10     Yoshichika Ōnuki             (University of the Ryukyus, Japan)  
*Unique Electronic States in Ullmannite-type Chiral Compounds*
- 17:10 – 17:30     Kenya Ohgushi             (Tohoku University, Japan)  
*Superconductivity in Fe-based ladder materials*
- 17:30 – 17:45     Shota Nakamura             (The University of Tokyo, Japan)  
*Investigation of the Wing-Structure Phase Diagram of the Ising Ferromagnet URhGe by Angle-Resolved Magnetization Measurements*
- 17:45 – 18:00     Hidekazu Mukuda             (Osaka University, Japan)  
*Charge Kondo Effect and Superconductivity in  $Pb_{1-x}Tl_xTe$  probed by  $^{125}Te$ -NMR*

## 28<sup>th</sup> Morning Sessions

### Session 9: 1-2-20 system

Chair: Michael Kenzelmann (PSI, Switzerland)

- 8:50 – 9:20 Sergey L. Bud'ko (Iowa State University, USA)  
*Six closely related  $\text{YbT}_2\text{Zn}_{20}$  ( $T = \text{Fe, Co, Ru, Rh, Os, Ir}$ ) heavy fermion compounds: large local moment degeneracy and tuning of physical properties*
- 9:20 – 9:50 Koichi Izawa (Tokyo Institute of Technology, Japan)  
*Transport properties of the Pr 1-2-20 system (Tentative)*
- 9:50 – 10:10 Takahiro Onimaru (Hiroshima University, Japan)  
*Emergence of quadrupole-driven phenomena in non-Kramers Pr 1-2-20 systems*
- 10:10 – 10:30 Yosuke Matsumoto (Max-Planck Institute Stuttgart, Germany)  
*Strong hybridization effect and heavy fermion superconductivity in non-magnetic quadrupolar systems  $\text{PrT}_2\text{Al}_{20}$  ( $T = \text{Ti, V}$ )*
- 10:30 – 11:00 *Break*

### Session 10: Spin-Orbit Interaction II

Chair: Georg Knebel (CEA Grenoble, France)

- 11:00 – 11:30 Elena Hassinger (MPI Dresden, Germany)  
*Fermi surface topology in Weyl semimetals*
- 11:30 – 11:50 Yoshikazu Mizuguchi (Tokyo Metropolitan University, Japan)  
*Superconductivity of layered  $\text{BiS}_2$ -based systems*
- 11:50 – 12:05 Yoshihiko Okamoto (Nagoya University, Japan)  
*Phase Transition in  $\beta$ -Pyrochlore Oxide  $\text{CsW}_2\text{O}_6$*
- 12:05 – 12:20 Toru Sakai (University of Hyogo, Japan)  
*Spin-Nematic and Spin-Liquid Phases in Low-Dimensional Quantum Antiferromagnets*
- 12:20 – 12:35 Ai Nakamura (Tohoku University, Japan)  
*Single Crystal Growth and Highly-Anisotropic Magnetic Properties of Ferromagnetic Heavy Fermion Compound  $\text{YbNiSn}$*

### Closing Remark

- 12:35 – 12:55 Kenji Ishida (Kyoto University, Japan)

## List of Poster Session

Posters must fit within a rectangle 86 cm wide and 176 cm height. All authors are requested to set up their posters before the 1st Poster Session on Sep. 25th, and display them until the end of the 2nd Poster Session on Sep. 27th. The necessary mounting material will be provided. Presentations are scheduled as follows:

25<sup>th</sup> 14:00 - 16:00, Odd Number

27<sup>th</sup> 14:00 - 16:00, Even Number

- P-01 **Masahiro Manago** Department of Physics, Kyoto University  
*NMR study of magnetic fluctuations and superconductivity of UCoGe under pressure*
- P-02 **Hideki Tou** Kobe University  
*Cu-NMR studies of heavy fermion CeCu<sub>6</sub>*
- P-03 **Satoru Nakatsuji** ISSP, The University of Tokyo  
*Anomalous Metallic State due to Quadrupolar Fluctuations in PrV<sub>2</sub>Al<sub>20</sub>*
- P-04 **Jun Ishizuka** Kyoto University  
*Electronic state and odd-parity multipole fluctuation in non-symmorphic crystalline*
- P-05 **Shunsaku Kitagawa** Kyoto University  
*NMR/NQR study on heavy-fermion superconductor CeCu<sub>2</sub>Si<sub>2</sub>*
- P-06 **Hikaru Watanabe** Department of Physics, Graduate School of Science, Kyoto University  
*Magnetic Hexadecapole Order in BaMn<sub>2</sub>As<sub>2</sub>*
- P-07 **Ryousuke Shiina** Department of Physics and Earth Sciences, University of the Ryukyus  
*A theory of valence fluctuation and field-insensitive heavy fermion in Sm compounds*
- P-08 **Motoi Kimata** IMR, Tohoku University  
*High Magnetic Field Study on URu<sub>2</sub>Si<sub>2</sub> and related compounds*
- P-09 **Akihisa Koga** Tokyo Institute of Technology  
*Role of the spin-orbit coupling in the Kugel-Khomskii model on the honeycomb lattice*
- P-10 **Takanori Taniguchi** ISSP, The University of Tokyo  
*The observation of the field induced transition in PrTi<sub>2</sub>Al<sub>20</sub>*
- P-11 **Kazunori Umeo** N-BARD, Hiroshima University  
*Pressure effects on the antiferroquadrupolar and superconducting transitions in PrIr<sub>2</sub>Zn<sub>20</sub>*
- P-12 **Taisuke Hattori** Advanced Science Research Center, Japan Atomic Energy Agency  
*Strong uniaxial spin anisotropy in the Hidden order state of URu<sub>2</sub>Si<sub>2</sub>*
- P-13 **Eiichi Matsuoka** Kobe University  
*Si-substitution effects on the physical properties and the magnetic anisotropy of a ferromagnetic Kondo-lattice compound CeRh<sub>6</sub>Ge<sub>4</sub>*
- P-14 **Haruki Matsuno** Kobe University  
*Investigation of UBe<sub>13</sub> Probed by <sup>9</sup>Be-NMR*
- P-15 **Taisuke Aoyama** Kobe University  
*NMR studies on anisotropy of antiferro spin fluctuations in UPt<sub>3</sub>*
- P-16 **Tatsuya Yanagisawa** Hokkaido University  
*Elastic Response of the Vortices-type Magnetic Order in UNi<sub>4</sub>B*
- P-17 **Akihiro Mitsuda** Department of Physics, Kyushu University  
*A new valence-ordered phase and collapse of antiferromagnetism in EuPtP induced by pressure*
- P-18 **Yo Machida** Tokyo Institute of Technology  
*Pressure effect on electrical transport properties of U<sub>1-x</sub>Th<sub>x</sub>Be<sub>13</sub>*
- P-19 **Mikito Koga** Shizuoka University  
*Antisymmetric spin-orbit coupling effect on a triangular-triple-quantum-dot Kondo system*
- P-20 **Yoshiki Sato** Graduate School of Engineering, Tohoku University  
*Single crystal growth and physical properties in Ce<sub>5</sub>Si<sub>4</sub> and La<sub>5</sub>Si<sub>4</sub> with chiral structure*
- P-21 **Yuki Yanagi** Department of Physics, Meiji University  
*Theoretical study on magnetoelectric response in the honeycomb antiferromagnet Co<sub>4</sub>Nb<sub>2</sub>O<sub>9</sub>*

- P-22 **Kazutaka Kudo** Research Institute for Interdisciplinary Science, Okayama University  
*Atomic imaging around Pr atoms in  $Ca_{1-x}Pr_xFe_2As_2$  by x-ray fluorescence holography*
- P-23 **Junpei Ogawa** Department of Physics, Tokyo Institute of Technology  
*Hall Resistivity of Non-Kramers System  $PrT_2Zn_{20}$  ( $T = Ir, Rh$ )*
- P-24 **Hironori Nakao** High Energy Accelerator Research Organization  
*Resonant x-ray scattering study on hybridized orbital states in f-electron system*
- P-25 **Shogo Sakuraba** Hirosaki University  
*Field-induced topological phase of the s-wave superconductor in a mono-layered checkerboard triangle lattice*
- P-26 **Yutaka Tobita** Hirosaki University  
*Topological Feedback on Superconductor*
- P-27 **Naoki Nakamura** Tokyo Metropolitan University  
*de Hass-van Alphen effect of the itinerant weak ferromagnetic filled skutterudite  $LaFe_4As_{12}$*
- P-28 **Dai Aoki** IMR, Tohoku University  
*Field tuned ferromagnetic instabilities in the ferromagnetic superconductor  $URhGe$  and related materials*
- P-29 **Kazutoshi Emi** Tohoku University  
*Development of Scanning Hall Probe Microscopy toward Observation of Novel Magnetic Domains*
- P-30 **Hiroyuki Hidaka** Hokkaido University  
*Systematic Study of the 4f Electronic State and Low-Energy Phonon in the Light-Rare-Earth  $RBe_{13}$*
- P-31 **Shigeki Miyasaka** Department of Physics, Osaka University  
*Study of angle resolved photoemission spectroscopy in Dirac fermion system  $NiTe_2$*
- P-32 **Hiroshi Shinaoka** Saitama University  
*Multi-orbital aspects of heavy fermion behavior in  $LiV_2O_4$*
- P-33 **Junya Otsuki** Tohoku University  
*DFT+DMFT approach to multipolar ordering in f-electron materials*
- P-34 **Norimasa Sasabe** Osaka Prefecture University  
*Spectral Change in 3d-4f Resonant Inelastic X-ray scattering of Ce intermetallics*
- P-35 **Kohei Suzuki** Tokyo Metropolitan University  
*Ground-state phase diagram of the  $S = 1$  one-dimensional Kondo lattice model with a uniaxial anisotropy under transverse field*
- P-36 **Yuichiro Noma** Kobe university  
 *$^{73}Ge$ -NQR studies on ferromagnetic superconductor  $UGe_2$  under pressure*
- P-37 **Kazumasa Hattori** Tokyo Metropolitan University  
*Magnetic-field induced interactions in  $PrTi_2Al_{20}$*
- P-38 **Atsushi Tsuruta** Department of Material Engineering Science, Osaka University  
*Theoretical study of the antiferro quadrupole and superconducting ordered state in Pr 1-2-20 systems*
- P-39 **Yasuaki Totoki** Department of physics, Kobe University  
*Structural stability and electronic structure of Rhombohedral As, Sb and Bi*
- P-40 **Kohei Oyama** Department of physics, Kyushu University  
*Magnetic structure analysis of valence ordering compound,  $YbPd$*
- P-41 **Kousuke Tanabe** Department of Physics Kyushu University  
*Transport property of  $EuT_2P_2$  ( $T = Ni, Co$ ) in magnetic field*
- P-42 **Hiroki Funashima** Department of Physics, Kobe University  
*Electronic and spin structures in ullmannite-type  $PdBiSe$  and  $NiSbS$*
- P-43 **Kohei Fukuchi** Department of Physics, Tokyo Institute of Technology  
*Unusual Normal and Superconducting States in  $U_{1-x}Th_xBe_{13}$  Probed by Thermal Transport Coefficients*
- P-44 **Kazuhei Wakiya** Yokohama National University  
*Effect of Sn substitution on the structural and magnetic properties of  $PrRu_2Zn_{20}$*
- P-45 **Yoshiki Koike** The University of Tokyo  
*Magnetotransport of  $CaMn_2Bi_2$  in pulsed high magnetic field*



- P-46 **Megumi Yatsushiro** Graduate School of Science, Hokkaido University  
*Magnetic ordering in the d-p model with spin-orbit couplings on a zigzag chain*
- P-47 **Fuminori Honda** IMR, Tohoku University  
*Single crystal growth and peculiar magnetic properties of UIrSi<sub>3</sub>*
- P-48 **Yasuki Kishimoto** Department of physics, Graduate school of Science, Kobe University  
*Ferromagnetic quantum criticality on YbNi<sub>4</sub>P<sub>2</sub> probed by P-NMR*
- P-49 **Genki Nakamine** Department of Physics, Kyoto University  
*Magnetic fluctuations at the interface region in the artificially engineered heavy-fermion superlattices*
- P-50 **Michiyasu Mori** Japan Atomic Energy Agency  
*Thermal Hall effect and multipole*
- P-51 **Yuina Kanai** Graduate School of Engineering Science, Osaka University  
*Observation of the linear dichroism in core-level photoemission reflecting 4f ground-state symmetry of strongly correlated cubic Ce compounds*
- P-52 **Arvind Maurya** IMR, Tohoku University, Japan  
*Crystal growth and dHvA effect studies of U<sub>3</sub>Ni<sub>3</sub>Sn<sub>4</sub>*
- P-53 **Akira Yamada** Tokyo Metropolitan University  
*Field-insensitive Kondo behavior in SmT<sub>2</sub>Al<sub>20</sub> and Superconducting properties in cage-structure compound LaT<sub>2</sub>X<sub>20</sub>*
- P-54 **Hisashi Kotegawa** Kobe University  
*Exotic phase transitions in zig-zag structure: superconductivity in CrAs and metal-insulator transition in RuAs*
- P-55 **Joe Kajitani** Tokyo Metropolitan University  
*Observation of superlattice reflections in BiS<sub>2</sub> layered superconductor LaO<sub>0.5</sub>F<sub>0.5</sub>BiS<sub>2</sub>*
- P-56 **Ryosuke Yamamura** Tokyo Metropolitan University  
*Mean-field phase diagram for multipole ordering in f<sup>2</sup>-electron systems on the basis of a j-j coupling scheme*
- P-57 **Mamoru Yogi** University of the Ryukyus  
*NQR study on Ullmannite-type compounds*
- P-58 **Chihiro Tabata** IMSS-KEK  
*Magnetic order and coupled charge-density waves in noncentrosymmetric intermetallic TbNiC<sub>2</sub>*
- P-59 **Shin-ya Ayukawa** Research Institute for Interdisciplinary Science, Okayama University  
*The magnetic field angular dependence of flux-flow resistance in FeSe<sub>1-x</sub>Te<sub>x</sub>*
- P-60 **Nonoka Higa** Graduate School of Engineering and Science, University of the Ryukyus  
*NMR studies of the incommensurate helical antiferromagnet Eu compounds*
- P-61 **Hiroki Morita** Department of Physics, Hokkaido University  
*Spectral function and density of state in superconducting state for the cuprate superconductors incorporating the strongly correlated effects*
- P-62 **Akito Sakai** ISSP, The University of Tokyo  
*Heavy fermion superconductivity and non-Fermi liquid in the quadrupole Kondo lattice PrTr<sub>2</sub>Al<sub>20</sub> (Tr = Ti, V)*
- P-63 **Yu Yamane** Hiroshima University  
*Single-site non-Fermi liquid state in a dilute Pr system Y<sub>1-x</sub>Pr<sub>x</sub>Ir<sub>2</sub>Zn<sub>20</sub>*
- P-64 **Takashi Matsui** Kobe University  
*NMR study of tetrahedrite Cu<sub>12</sub>Sb<sub>4</sub>S<sub>13</sub>*
- P-65 **Takeshi Mito** University of Hyogo  
*Local structural anomaly in URu<sub>2</sub>Si<sub>2</sub> detected by NMR studies*
- P-66 **Tatsuma D. Matsuda** Tokyo Metropolitan University  
*Magnetic properties of a new compounds RPd<sub>3</sub>Ga<sub>8</sub> with kagome lattice (R: rare earth)*
- P-67 **Yoshiki Nakanishi** Graduate School of Science and Engineering Iwate university  
*Elastic properties of Eu-based compounds EuX<sub>4</sub> (X: Ge, Al) probed by ultrasonic measurements*
- P-68 **Yasuhiro Nagaoka** ISSP, The University of Tokyo  
*Synthesis and thermal expansion measurement of quadrupole Kondo lattice PrV<sub>2</sub>Al<sub>20</sub>*

- P-69 **Klára Uhlířová** Charles University, Faculty of Mathematics and Physics  
*Magnetism and superconductivity in the  $Ce_nPd_mIn_{3n+2m}$  and  $Ce_nPt_mIn_{3n+2m}$  homologous series*
- P-70 **Tang Nan** ISSP, The University of Tokyo  
*Low Temperature Thermal Expansion and Magnetostriction Measurements of Quantum Spin Ice system*
- P-71 **Masaya Taniguchi** Graduate School of Science and Engineering Iwate university  
*Successive phase transition in the cage compound  $PrV_2Al_{20}$  probed by ultrasonic measurements*
- P-72 **Masahiro Nakamura** Graduate School of Science and Engineering Iwate university  
*Elastic properties of the caged compound  $NdV_2Al_{20}$  probed by ultrasound measurements*
- P-73 **David Schroeter** TU Braunschweig  
*MnSi-nanostructures obtained from thin films: magnetotransport and Hall effect*
- P-74 **Michal Vališka** Department of Condensed Matter Physics, Charles University  
*Uranium ferromagnet with negligible magnetocrystalline anisotropy –  $U_4Ru_7Ge_6$*
- P-75 **Takumi Ohtsuki** ISSP, The University of Tokyo  
*Electronic and magnetotransport properties of pyrochlore  $Pr_2Ir_2O_7$  epitaxial thin films*
- P-76 **Shigeo Ohara** Nagoya Institute of Technology  
*Synthesis, structure and magnetism in honeycomb magnets of  $RNi_3Al_9$ ,  $RNi_3Ga_9$ ,  $R_2Pt_6Ga_{15}$ , and  $R_2Rh_3Ga_9$  (R: rare earth elements)*
- P-77 **Dominik M. Juraschek** ETH Zurich  
*Dynamical Multiferroicity*
- P-78 **Kazumasa Horigane** Research Institute for Interdisciplinary Science, Okayama University  
*Magnetic phase diagram in  $Sr_{2-x}La_xIrO_4$  synthesized by mechanical alloying method*
- P-79 **Kaya Kobayashi** Okayama University  
*Intercalated Bismuth Selenide superconductor: Resilient superconductivity over structural transition*
- P-80 **Muhammad Ikhlas** ISSP, The University of Tokyo  
*Doping dependence of the Anomalous Transport Properties of  $Mn_3Sn$*
- P-81 **Alix McCollam** High Field Magnet Laboratory, Radboud University  
*Relation of quasiparticle mass enhancement to antiferroquadrupolar order in  $PrOs_4Sb_{12}$*
- P-82 **Yusuke Kousaka** Okayama University  
*Homo-chiral crystallization and Mono-chiral helimagnetism in inorganic chiral magnetic compounds*
- P-83 **Yuji Muro** Toyama Prefectural University  
*Single crystal study for a ferromagnetic Kondo compound  $\alpha$ - $CeNiSb_3$*
- P-84 **Akira Sekiyama** Graduate School of Engineering Science, Osaka University  
*Linear dichroism in angle-resolved core-level photoemission spectra reflecting anisotropic strongly correlated outer-orbital charge distributions*
- P-85 **Naoyuki Katayama** Nagoya University  
*Phase transitions in vanadium chalcogenides with a two dimensional triangular lattice*
- P-86 **Satoru Hamamoto** Graduate school of engineering science, Osaka University  
*Linear dichroism in angle-resolved core level photoemission reflecting 4f ground state symmetry of strongly correlated cubic Pr compounds*
- P-87 **Matthias Raba** CNRS, Grenoble, France  
*Electronic and magnetic properties of  $CePt_2In_7$*
- P-88 **Nobuyuki Abe** The University of Tokyo  
*Magnetic structure and magnetoelectric effect in buckled honeycomb lattice antiferromagnet  $Co_4Ta_2O_9$*
- P-89 **Ryuji Higashinaka** Tokyo Metropolitan University  
*Magnetic and structural properties of BiS<sub>2</sub>-based layered superconductors  $LnO_{1-x}F_xBiS_2$*
- P-90 **Tsuyoshi Omi** The University of Tokyo  
*Observation of a nonreciprocal signal in ferromagnetic resonance in multiferroic  $GaFeO_3$*
- P-91 **Hiraku Saito** Graduate School of Science, Hokkaido University  
*Current-Induced Magnetization on  $UNi_4B$  and  $CeRh_2Si_2$*
- P-92 **Jo Imai** Graduate School of Engineering, Iwate University  
*Ultrasonic measurement of Fe-based superconducting  $SrFe_2(As_{1-x}P_x)_2$*

## Access to the Workshop venue

[Access from Narita airport to Morioka station](#)

[Access from Haneda airport to Morioka station](#)

[Access from Morioka station to Hachimantai Royal Hotel](#)

① Free Shuttle Bus (**Reservation required** : Workshop secretary will contact you in advance.)

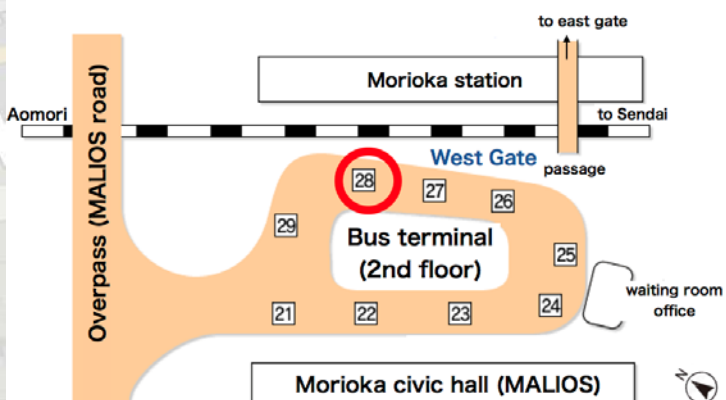
**1st Bus**            Time    : September 24 (Sunday) **13:00**  
                          Place    : [Iwate University Library](#)  
                          Bus      : Hachimantai Royal Hotel Shuttle Bus (J-Physics2017 dedicated)  
                          Capacity : 50 persons

**2nd Bus**            Time    : September 24 (Sunday) **14:00**  
                          Place    : around [Bus Stop No. 28, Morioka Station West Gate](#)  
                          Bus      : Hachimantai Spa Free Shuttle Bus  
                          Capacity : unlimited

**3rd Bus**            Time    : September 24 (Sunday) **16:00**  
                          Place    : around [Bus Stop No. 28, Morioka Station West Gate](#)  
                          Bus      : Hachimantai Royal Hotel Shuttle Bus (J-Physics2017 dedicated)  
                          Capacity : 50 persons



[Iwate University Library](#)  
[Temporary Bus Stop](#)



[Bus Stop No. 28, Morioka Station](#)  
[West Gate](#)

② Local Bus

Place : [Bus Stop No. 3, Morioka Station East Gate](#)

Bus : Northern Iwate Transportation Inc. (Iwate Kenhoku Bus)

Route and Fare :

②- 1 Destination Matsukawa Onsen (JPY 1,020)

Morioka St. No.3	→	Hachimantai Royal Hotel (Bus Stop)
6:54	→	8:33
12:12	→	13:44
13:42	→	15:12

②- 2 Hachimantai Shizen Sansaku Bus (JPY 1,020)

Morioka St. No.3	→	Hachimantai Royal Hotel (Bus Stop)
9:10	→	10:16

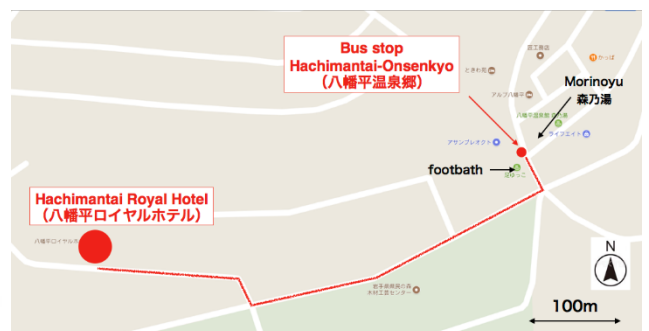
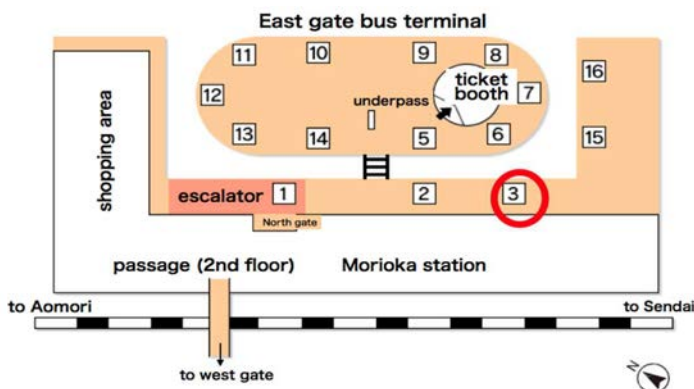
②- 3 Destination: Hachimantai Resort Hotel (JPY 1,110 or 1,020)

Morioka St. → **Hachimantai**  
**Onsenkyo**

8:02	→	9:36
9:02	→	10:40
10:42	→	12:12
11:42	→	13:20
12:42	→	14:20
14:42	→	16:23

Morioka St. → **Hachimantai**  
**Onsenkyo**

15:42	→	17:10
16:42	→	18:10
18:04	→	19:45
18:57	→	20:20
19:52	→	21:15



[Bus Stop No.3, Morioka Station East Exit](#)

[from Hachimantai Onsenkyo to Hachimantai Royal hotel \(distance: 600m\)](#)