Scientific Program

25th 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)
\textit{Multipolar Order in Sr}_2\textit{IrO}_4 \textit{and Cd}_2\textit{Re}_2\textit{O}_7

9:20 – 9:50 Yukitoshi Motome (The University of Tokyo, Japan)
\textit{Majorana fermions in Kitaev magnets}

9:50 – 10:10 Tong Zhang (Fudan University, China)
\textit{STM study of surface electron-doped Sr}_2\textit{IrO}_4

10:10 – 10:30 Yogesh Singh (IISER Mohali, India)
\textit{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)
\textit{Quantum Multicritical Point in YbRh}_2\textit{Si}_2

11:30 – 12:00 Kazuhiko Deguchi (Nagoya University, Japan)
\textit{Magnetic quasicrystal with Yb icosahedron}

12:00 – 12:20 Shinji Watanabe (Kyushu Institute of Technology, Japan)
\textit{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$_2$IrO$_4$

12:35 – 14:00 Lunch

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

16:00 - 16:30 Break

25th Afternoon Session

Session 3: URu$_2$Si$_2$

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

16:30 – 17:00 Hiroaki Ikeda (Ritsumeikan University, Japan)
Review of theory about URu$_2$Si$_2$

17:00 – 17:30 William Knafo (LNCMI-Toulouse, CNRS, France)
Field-induced spin-density wave in URu$_2$Si$_2$

17:30 – 17:50 Shinsaku Kambe (ASRC, JAEA, Japan)
NMR study of URu$_2$Si$_2$

17:50 – 18:10 Nicholas P. Butch (NIST Center for Neutron Research, USA)
Magnetic excitations in the hidden order and antiferromagnetic phases of URu$_{2-x}$Fe$_x$Si$_2$
26th 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 CeCoIn5

11:30 – 11:50 Yusei Shimizu (Tohoku University, Japan)
Superconductivity and Non-Fermi-Liquid Behaviors in UBe13 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 CeIn3, CeRhIn5, and CePt2In7

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”
27th 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

Session 7: 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 Thöne (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 Mn3Sn

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

27th Afternoon Session

Session 8: New Compounds

Chair: Sergey L. Buď’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 Pb1-xTl xTe probed by $^{125}$Te-NMR
28th 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 YbT$_2$Zn$_2$O$_7$ (T = Fe, Co, Ru, 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 Pr$_2$Ti$_2$O$_7$ (T = 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 BiS$_2$-based systems
11:50 – 12:05 Yoshihiko Okamoto (Nagoya University, Japan)
Phase Transition in β-Pyrochlore Oxide CsW$_2$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 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:

25th 14:00 - 16:00, Odd Number
27th 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 CeCu6

P-03 Satoru Nakatsuji ISSP, The University of Tokyo
Anomalous Metallic State due to Quadrupolar Fluctuations in PrV2Al20

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 CeCu6Si2

P-06 Hikaru Watanabe Department of Physics, Graduate School of Science, Kyoto University
Magnetic Hexadecapole Order in BaMn2As2

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 Moti Kimata IMR, Tohoku University
High Magnetic Field Study on URu2Si2 and related compounds

P-09 Akihisa Koga Tokyo Institute of Technology
Role of the spin-orbit coupling in the Kagel-Khomskii model on the honeycomb lattice

P-10 Takanori Taniguchi ISSP, The University of Tokyo
The observation of the field induced transition in PrTi2Al20

P-11 Kazunori Umeo N-BARD, Hiroshima University
Pressure effects on the antiferroquadrupolar and superconducting transitions in PrIr2Zn20

P-12 Taïsuke Hattori Advanced Science Research Center, Japan Atomic Energy Agency
Strong uniaxial spin anisotropy in the Hidden order state of URu2Si2

P-13 Eiichi Matsuoka Kobe University
Si-substitution effects on the physical properties and the magnetic anisotropy of a ferromagnetic Kondo-lattice compound CeRh6Ge4

P-14 Haruki Matsuno Kobe University
Investigation of UBe13 Probed by 9Be-NMR

P-15 Taïsuke Aoyama Kobe University
NMR studies on anisotropy of antiferro spin fluctuations in UPt3

P-16 Tatsuya Yanagisawa Hokkaido University
Elastic Response of the Vortices-type Magnetic Order in UNiB

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 U1-xThₓBe13

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 Ce₃Si₄ and La₃Si₄ with chiral structure

P-21 Yuki Yanagi Department of Physics, Meiji University
Theoretical study on magnetoelastic response in the honeycomb antiferromagnet Co₃Nb₃O₉
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relation of quasiparticle mass enhancement to antiferroquadrupolar order in $prosb_{12}$

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-$ce_{n}nb_{3}$

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 $ce_{n}nb_{3}$

p-88 nobuyuki abe  the university of tokyo  
magnetic structure and magnetoelectric effect in buckled honeycomb lattice antiferromagnet $cospta_{2}o_{6}$

p-89 ryuji higashinaka  tokyo metropolitan university  
magnetic and structural properties of $bi_{2}s_{2}$-based layered superconductors $lno_{1.5}f_{0.5}bi_{2}s_{2}$

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 $un_{3}b$ and $cerh_{3}si_{2}$
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
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
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

from Hachimantai Onsenkyo to Hachimantai Royal hotel
(distance: 600m)