J-Physics 2017
International Workshop on Multipole Physics and Related Phenomena

24th Afternoon

16:00 – Registration
18:00 – Get-Together  12 Floor “Sky Banquet Room”

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)  
*Multipolar Order in Sr$_2$IrO$_4$ and Cd$_2$Re$_2$O$_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$_2$IrO$_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$_2$Si$_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$_2$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 valancy 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 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 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. 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_{x}Te 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 YbT₂Zn₂₀ (T = 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 PrT₂Al₂₀ (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 BiS₂-based systems

11:50 – 12:05 Yoshihiko Okamoto (Nagoya University, Japan)
Phase Transition in β-Pyrochlore Oxide CsW₂O₆

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:

25\textsuperscript{th} 14:00 - 16:00, Odd Number
27\textsuperscript{th} 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\textsubscript{6}

P-03 Satoru Nakatsuji
ISSP, The University of Tokyo
Anomalous Metallic State due to Quadrupolar Fluctuations in PrV\textsubscript{2}Al\textsubscript{20}

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\textsubscript{6}Si\textsubscript{2}

P-06 Hikaru Watanabe
Department of Physics, Graduate School of Science, Kyoto University
Magnetic Hexadecapole Order in BaMn\textsubscript{2}As\textsubscript{2}

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 URu\textsubscript{2}Si\textsubscript{2} 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\textsubscript{2}Al\textsubscript{20}

P-11 Kazunori Umeo
N-BARD, Hiroshima University
Pressure effects on the antiferroquadrupolar and superconducting transitions in PrIr\textsubscript{2}Zn\textsubscript{20}

P-12 Taisuke Hattori
Advanced Science Research Center, Japan Atomic Energy Agency
Strong uniaxial spin anisotropy in the Hidden order state of URu\textsubscript{2}Si\textsubscript{2}

P-13 Eiichi Matsuoka
Kobe University
Si-substitution effects on the physical properties and the magnetic anisotropy of a ferromagnetic Kondo-lattice compound CeRh\textsubscript{6}Ge\textsubscript{4}

P-14 Haruki Matsuno
Kobe University
Investigation of UBe\textsubscript{13} Probed by \textsuperscript{8}Be-NMR

P-15 Taisuke Aoyama
Kobe University
NMR studies on anisotropy of antiferro spin fluctuations in UPt\textsubscript{3}

P-16 Tatsuya Yanagisawa
Hokkaido University
Elastic Response of the Vortices-type Magnetic Order in UNi\textsubscript{2}B

P-17 Akiiho 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\textsubscript{1-x}Th\textsubscript{x}Be\textsubscript{13}

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 CeSi\textsubscript{4} and La\textsubscript{2}Si\textsubscript{4} with chiral structure

P-21 Yuki Yanagi
Department of Physics, Meiji University
Theoretical study on magnetoelectric response in the honeycomb antiferromagnet Co\textsubscript{2}Nb\textsubscript{2}O\textsubscript{9}
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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

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