

Session 1 (Day 2, February 14)

Registration No.	Presenter	Title
U_0005	Yangming Wang	Anomalous Nernst effect in topological $\text{Fe}_3\text{Ga}_{1-x}\text{Al}_x$ polycrystals
U_0007	Kohei Hattori	Effect of Collective Spin Dynamics on Anomalous Transverse Transport: Real-Time Calculation
U_0011	Jieyi Chen	Effect of alkali halide insertion on magnetic anisotropy at the Fe/MgO interface
U_0032	Yoshitaka Okuyama	Aspects of critical phenomena with boundary and defect
U_0033	Hironobu Yoshida	Uniqueness of the non-equilibrium steady state in open quantum many-body systems
U_0035	Yurina Nakazato	Formation and evolution of galaxies in the early Universe by 3D hydrodynamics simulation
U_0045	Ming-Chun Jiang	Possible Rattling and Anharmonicity Enhanced Superconductivity in Sc_6MTe_2 (M=Fe, Co, Ni)
U_0047	Masaki Yama	Theory of the Inverse Edelstein Effect using Boltzmann Equation
U_0058	Tik Tsun Yeung	Decay spectroscopy and delayed-neutron measurements of neutron-rich nuclei from Os to Po at RIBF
U_0059	Zijun Wei	Spin Dynamics in an Easy-plane Antiferromagnet CsFeCl_3 in Magnetic Field
U_0066	Yunyoung Hwang	On-chip strong coupling between spin waves and surface acoustic waves
U_0069	Raigo Nagashima	Classification of Lifshitz invariant in multiband superconductors and its application to Leggett modes
U_0071	Moeta Tsukamoto	Observation of domain wall in chiral antiferromagnet
U_0073	You Ba	Resonant surface acoustic wave absorption in YIG
U_0080	Tatsuto Hatanaka	First-principles derivation of classical spin models based on the spin cluster expansion
U_0083	Junna Sugiyama	Precipitable Water Vapor Measurement using GNSS Data in the Atacama Desert for Millimeter and Submillimeter Astronomical Observations
U_0090	Moritz M. Hirschmann	Fundamental Laws of Chiral Band Crossings
U_0091	Akihiro Hokkyo	No-Go Theorem from Eigenstate Thermalization Hypothesis about Work Extractability in Locally Interacting Systems
U_0092	Yuka Oshima	Development of Torsion Pendulums and Readout Optics for Gravity Gradient Observation
U_0096	Hibiki Matsunaga	Calculation method for the coherence length at low temperatures

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U_0098	Ken Inayoshi	Energy Flow during Relaxation in an Electron-Phonon System with Multiple Modes: A Nonequilibrium Green's Function Study
U_0101	Hiromu Ushihara	Microscopically-derived quantum master equation for a boundary-driven Hubbard model and its application to nonlinear thermoelectric effect
U_0106	Dongxue Han	Nanoscale imaging of magnetic texture dynamics by ultrafast Lorentz transmission electron microscopy
U_0108	Ryota Uesugi	Giant anomalous Nernst effect in the epitaxial and polycrystalline films of the Weyl ferromagnet Co_2MnGa
U_0113	Shinichi Inoue	Robust two-qubit entangling gate scheme for collision-free scalable quantum computer
U_0116	Yuchen Wang	Large Photoelasticity in Topological Antiferromagnet Mn_3Sn Studied by Coherent Acoustic Phonon
U_0120	Shohei Imai	Systematic construction of unconventional η -pairing states in multi-body interacting systems
U_0124	Mihiro Asakura	Observation of the exchange bias at polycrystalline chiral-antiferromagnet/collinear-antiferromagnet interface
U_0127	Diego Catala	Observation of orbital Hall effect in Ru/FM nanostructures
U_0129	Yukihiro Marui	The accuracy of the harmonic Hall measurements on spin orbit torques in W/CoFeB
U_0131	Shota Namerikawa	First-Principles Electrical Conductivity Calculations of Ag-Pd Alloy based on Wannier-CPA Method
U_0146	Aakanksha Sud	Spin-pumping driven by non-linear harmonic generation
U_0081	Patrick Zellekens	Flux-periodic supercurrent oscillations in GaAs/InAs/Al core/shell/halfshell nanowire Josephson junctions
U_0149	Akiyoshi Yamada	Quantum-classical correspondence and dissipative to dissipationless crossover in magneto-transport phenomena
U_0150	Shaocong Lu	Superconductivity in Hole-Doped Perovskite Hydride KMgH_3
U_0156	Zhiyi Duan	Ti-Doping Effect in Weyl Antiferromagnet Mn_3Sn
U_0157	Kana Sakaguri	The Status of the Simons Array Experiment and the Science Cases with Circular Polarization Measurements
U_0158	Shunsuke Nishimura	Magnetic imaging of quantum vortices in microfabricated superconductor using diamond quantum sensor
U_0160	Zoe Jeandupeux	Stochastic Reaction-Diffusion System of Biological Chemical Reaction Network
U_0165	Hua Bai	Charge-spin conversion in antiferromagnetic RuO_2

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U_0166	Jun Oike	Detection of magnetic octupolar order by nonlinear magnetoelectric effect
U_0168	Masahiko Yunokizaki	Fabrication of tunnel junction with the antiferromagnetic Weyl semimetal Mn_3Sn dot down to sub-micron scale
U_0177	Hiroki Yoshida	Thermal Hall measurements to detect spontaneous thermal Hall effect in kagome superconductor CsV_3Sb_5
U_0199	Yuto Kajiwara	Anisotropic thermoelectric properties in $CaZn_2Sb_2$ zintl compounds
U_0004	Yuta Toga	Substitution-Driven Enhancement of the Neel Temperature in Noncollinear Magnet Mn_3Sn : A Theoretical Study
U_0084	José Maria Cruz	Hollow Lattice Tensor Gauge Theories with Bosonic Matter
U_0064	Rikuto Oiwa	Construction of symmetry-adapted Closest Wannier models using multipole basis
U_0086	Masaki Imamura	Non-negative Matrix Factorization Analysis for Angle-Resolved Photoemission Spectra of Graphene
U_0087	Kazutoshi Takahashi	Electronic band structure of ultraflat hexagonal bismuthene
U_0097	Takahiro Ishikawa	Search for superconductivity in La-N-H by evolutionary algorithm, neural network potential, and density functional theory
U_0107	Hirokazu Tanaka	Roll-to-Roll Printing of Anomalous Nernst Thermopiles for Perpendicular Heat Flux Sensing
U_0136	Junji Fujimoto	Anti-Poiseuille flow by spin Hall effect
U_0137	Shoya Sakamoto	Surface and bulk magnetic structure of Mn_3Sn epitaxial thin films studied by x-ray magnetic circular dichroism
U_0142	Koudai Sugimoto	Wannier-Stark ladders emerging in the single-particle excitation spectra of the Hubbard model
U_0154	Katarzyna Gas	Magnetic studies of epitaxial thin films of noncollinear Weyl antiferromagnet Mn_3Sn
U_0164	Takashi Koretsune	X-ray magnetic circular dichroism arising from the magnetic dipole moment in Mn_3Sn and Mn_3Ir
U_0188	Noriyuki Hatakenaka	Analogue Hawking radiation with reverse Doppler shift in Josephson metamaterial transmission lines
U_0196	Hanshen Tsai	Large Hall Signal due to electrical Switching at Mn_3Sn /heavy metal multilayers
U_0102	Rihito Kondo	Octupole polarization switching in Mn_3Sn probed by magnetoresistance through magnetic tunnel junction with different sizes

Session 2 (Day 3, February 15)

Registration No.	Presenter	Title
U_0009	Soma Takemori	Unconventional non-Hermitian superfluid phase transition induced by the interplay between exceptional manifolds and van Hove singularity
U_0012	Hongchao Li	Yang-Lee Zeros, Semicircle Theorem, and Nonunitary Criticality in BCS Superconductivity
U_0024	Erkang Wei	Magnetic damping of epitaxial Fe/Pt multilayer characterized by time-resolved magneto-optical Kerr effect
U_0034	Takahiro Anan	Time-dependent Gutzwiller simulation of Floquet topological superconductivity
U_0037	Junta Iguchi	Bulk photovoltaic effect in antiferromagnet: Role of collective spin dynamics
U_0050	Yutaro Tanaka	Anomalous crystal shapes induced by topological phases protected by crystal symmetries
U_0060	Liyang Liao	Valley-Selective Phonon-Magnon Scattering in Magnetoelastic Superlattices
U_0072	Haruto Yoshimochi	Multi-step topological transitions among meron and skyrmion crystals in a centrosymmetric magnet
U_0077	Manabu Sato	Ideal Spin-Orbit-Free Dirac Semimetal RE_3CoX_3 (RE = rare earth elements, X = Al, Ga, or In)
U_0078	Yutaro Tsushima	Cr-doping effects on the magneto-thermoelectric properties of the antiferromagnetic Weyl semimetal Mn_3Sn thin film
U_0079	Nico Budai	Magnetic imaging by the anomalous Nernst effect using atomic force microscopy
U_0085	Weiguang Gao	Nonlocally Detected Diffusive Orbital Current Generated via Orbital Edelstein Effect
U_0088	Hikaru Fukuda	Thermal fluctuation induced anisotropic topological Hall effect in pyrochlore-type $Eu_2Mo_2O_7$
U_0089	Nanse Esaki	Theoretical studies of the electric field induced thermal Hall effect in the quantum dimer magnets $XCuCl_3$ (X = TI, K)
U_0094	Ryotaro Suda	Development of Quantum Sensing under High Pressure: Visualization of Pressure and Magnetic Field
U_0100	Tonghua Yu	Topological interface states of magnetic half-Heusler materials
U_0104	EMK Ikbali Ahamed	Dynamic control of spin-wave by electric field in rare-earth iron functional oxide thin films
U_0110	Junhyeok Jeong	The doping-dependent evolution of superconductivity in the multilayered cuprate
U_0147	Kotaro Tanaka	Nonlinear optical response of a s-wave superconductor NbN with using terahertz vortex beam

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U_0114	Takumi Chida	Calculation of the Green function and ionization energy based on the transcorrelated method
U_0125	Takuya Matsumoto	Magneto transport properties of Ferri magnet GdCo_2
U_0126	Shunichiro Kurosawa	Magneto-Thermoelectric Effect in Epitaxial Thin Film of Topological Nodal Plane Kagome Ferromagnet Fe_3Sn
U_0128	Hidetoshi Kosaki	Pump-probe spectroscopy of NiFe film grown on chiral antiferromagnet Mn_3Sn
U_0132	Kaiki Shibata	Theoretical study on anomalous Nernst effect enhanced at van Hove singularity in two-dimensional materials
U_0135	Md. Shamim Sarker	Dynamic Redox Reaction-Driven Electrically Tunable Magnon FET
U_0138	Ryota Ono	Electrical control of skyrmionic lattice in centrosymmetric non-frustrated insulating magnets
U_0139	Takumi Fukushima	Supercurrent Distribution on Superconducting Quasicrystals
U_0140	Hiroki Yoshida	Shift current responses of a two-dimensional system approaching the Weyl semimetal phase
U_0144	Keisuke Sobue	Long spin diffusion length in epitaxial Pt wires.
U_0145	Shunya Chiba	Spin-orbit and orbital torque in (W or Cr)/CoFeB/MgO stacks for SOT-MRAM application
U_0151	Shunsaku Nagasawa	Developing Innovative Hard X-ray Spectral Imager for Studies of Particle Acceleration in Solar Flare
U_0152	Tomohiro Fujimoto	Observation of Spin Hall Conductivity Spectrum of GaAs in the Terahertz Frequency Regime
U_0153	Hiroto Saito	Efficient calculation of magnetocrystalline anisotropy using symmetry-aware Wannier Hamiltonian
U_0155	Hiroyuki Sudo	3D Topological insulator in a strong magnetic field
U_0159	Lin Huang	Antiferromagnetic magnonic charge current generation via ultrafast optical excitation
U_0162	Yuki Yamazaki	Magnetic Raman spectroscopy for Majorana edge states in Kitaev spin liquids
U_0167	Po-Kuan TUNG	Effect of Y-doping on the high-temperature antiferromagnet $\text{Ba}_5\text{Co}_5\text{ClO}_{13}$
U_0184	Fang Lyu	Development of low temperature relaxation-method calorimetry for small samples
U_0185	Hang Su	NbReSi: a noncentrosymmetric superconductor with large upper critical field and nodeless superconductivity

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U_0187	Masaki Roppongi	Development of a circular polarized microwave cavity and microwave Hall effect measurements
U_0189	JIWON YANG	Defect density effect on scattering times in a γ - $A_2O_3/SrTiO_3$ 2DEG
U_0192	Gakuto Kusuno	Polarized Raman study of antiferromagnet FePS3
U_0195	Kouki Mikuni	Magnetic resonance frequencies in a two-sublattice ferrimagnet with a magnetic compensation point
U_0197	Takachika Isomae	Extremely Large Magnetoresistance and Anisotropic Transport in Multipolar Kondo System $PrTi_2Al_{20}$
U_0198	Yuki Kobayashi	Composition variation behavior of galvanomagnetic effect in GdFe collinear coupled ferrimagnetic alloy thin films
U_0213	Takaharu Kaji	Quantum Phases of Helium Three on Graphite Plated with Bilayer of HD
U_0170	Michele Dall'Arno	Data-driven self-calibration of quantum circuits
U_0051	Kentaro Ueda	Colossal negative magnetoresistance in field-induced Weyl semimetal of magnetic half-Heusler compound
U_0112	Kunihiko Yamauchi	DFT Calculations on Spin-Splitting Phenomena in Altermagnetic $CaCrO_3$
U_0119	Takuya Matsuda	Intense photoexcitation exposes 2000-times higher-mobility carriers in correlated kagome antiferromagnet Mn_3Sn
U_0133	Vu Thi Ngoc Huyen	Topological degeneracy and emergence of transport phenomena in antiferromagnetics
U_0141	Junyeon Kim	Current-induced orbital polarization at Cu/Oxide interface
U_0143	Nguyen Thi Phuong Thao	Microscopic Mechanism of Magnetic Stability in Monolayer Transition-Metal Dihalides
U_0191	Hena Das	Anisotropic thermal expansion phenomena in Ca_2RuO_4 type systems
U_0194	Hikaru Takeda	Thermal Hall effect in the antiferromagnetic Skyrmion lattice
U_0122	Yuki Hibino	Energy-Efficient SOT-MRAMs Using Spin Hall Effect of Amorphous W-Ta-B Alloys
U_0109	Hitoshi Kubota	Observation of magnetization process in artificial honeycomb spin ice through tunnel magnetoresistance effect
U_0300	Xufeng Kou	Large Spin Orbit Coupling Systems for Emerging Physics and Spintronics Applications