

**Grant -in-Aid for Transformative Research Areas (A) 「Unveiling, Design, and Development of Asymmetric Quantum Matters」**

**FY2024 Area General Meeting/Public Research Kickoff Meeting**

**5/30 (Thu.) Poster session** (Poster No. Odd No. -> First half 15:15-16:15、 Even No. -> latter half 16:20-17:20)

No.	Name	Poster title
1	MATSUSHITA, Masahiro	Field induced cooperative Jahn–Teller effect in $\text{TmPo}_4$
2	SHINADA, Koki	The sum rule of the optical activity in noncentrosymmetric superconductors
3	MA, Zhaochen	A rich variety of spin/charge ordering in perovskite-type oxide $\text{Ba}_{1-x}\text{La}_x\text{FeO}_3$
4	ONISHI, Kou	Low temperature physical properties of rare earth compound $\text{RMgX}$ ( $R$ = rare earth, $X$ = p-block elements) with distorted Kagome lattice.
5	HORI, Fumiya	Pressure and substitution effect of novel quasiparticles in Yb zigzag-chain semiconductor $\text{YbCuS}_2$
6	KATO, Masaki	Microscopic theory of multi-orbital spin-dependent hopping and chiral spin-orbit coupling
7	ARAI, Yuki	Impurity dependence of anomalous Hall effect in non-collinear magnet $\text{NbMnP}$
8	TERADA, Ibuki	Dissipative and Geometric Effects in Bloch-Zener Oscillations
9	KOMODA, Takuya	Development of a New Type Adiabatic Demagnetization Refrigerator Using a Superconducting Heat Switch
10	KOBAYASHI, Yasuhito	High-pressure Synthesis of Novel Na-Pt-O Oxides Exhibiting Unique Ordering Phase
11	NUMA, Koki	Electronic structure calculation of anti-ferro quadrupolar ordered state in $\text{CeRh}_2\text{As}_2$
12	IWATA, Takuma	Development of a microscopy technique for direct observation of spin splitting bands originating from multipole ordering
13	HIBINO, Ruo	Development of the new probe with two-axial rotating system for ultrasonic measurements -Verification of the field-angle dependence of the elastic response in $\text{Prlr}_2\text{Zn}_{20}$ -
14	SUZUKI, Hiroto	Anomalous Hall effect and successive transitions in an orthorhombic compound $\text{EuPdAl}_6$
15	OIKAWA, Tatsuki	First-principles study of phonon dispersions with broken time-reversal symmetry
16	WATANABE, Kanta	Enhancement of magnetic refrigeration performance of heavy fermion compounds $\text{YbCu}_{5-x}\text{Ni}_x$ using quantum critical fluctuations
17	KATO, Moyu	Material development of breathing Kagome antiferromagnets
18	OIKE, Jun	Signatures of magnetic octupolar order from nonlinear magnetoelectric effect
19	HASEGAWA, Takumi	Investigation of structural instability on $\text{CeCoSi}$
20	NAKAO, Hironori	Development of a diffractometer for scanning-type resonant soft X-ray scattering
21	KITAGAWA, Shunsaku	Multiple superconducting phase and magnetism in heavy fermion superconductor $\text{CeRh}_2\text{As}_2$
22	KOTEGAWA, Hisashi	Single crystal growth and pressure effect for $\text{YMn}_{12}$ with magnetic toroidal dipole
23	NITTA, Hiroto	Study of the magnetic structure of $\text{EuRhGe}_3$
24	TOMITA, Kotaro	Keeping a cryogenic temperature by enlarged heavy-fermion magnetic refrigerant $\text{YbCu}_4\text{Ni}$
25	HATTORI, Kohei	Effect of collective excitation on optical Hall effect in All-In/All-Out magnetic structures

26	TANAKA, Hiroto	Anomalous Hall Effect originating from an antiferromagnetic structure in $Ce_2TGe_6$ ( $T=Cu, Pd$ )
27	MAETANI, Fuya	Transport Properties of Kondo Semimetal $CeRu_2Al_{10}$ under High Pressure
28	YOSHIDA, Kiichiro	Magnetotransport Properties of a Polar Semiconductor with CDW Transition
29	MINAMI, Shoko	NMR studies on normal and superconducting states in $UBe_{13}$
30	ISOBE, Kentaro	Anomalous elastic response in a magnetically ordered state in the rare-earth honeycomb compound $TbPt_6Al_3$
31	MATSUMOTO, Ryohei	Superconductivity in Metal-Rich Antimonide $Zr_6FeSb_2$
32	KOUSA, Towa	Demonstration of phase-resolved Spin-ARPES on topological surface states in $Bi_2Te_3$
33	WASHIMI, Fumino	Crystal growth and characterization of van der Waals ferroelectrics $NbOI_2$
34	YOKOYAMA, Akira	Bulk spin texture revealed by angle-resolved nonreciprocal resistance measurement
35	INDA, Akane	Quantitative analysis of chirality based on electric toroidal monopole
36	KANDA, Shuhei	Nonlinear optical response originating from chiral-type antisymmetric spin-orbit interaction
37	AOYAMA, Takuya	Piezomagnetic effect of $MnTe$ with broken time reversal symmetry
38	ŌNUKI, Yoshichika	Unique Electronic States in Eu- and Gd-based Compounds
39	FUJIWARA, Hidenori	Ground state 4f symmetry determined by linearly polarized hard x-ray photoemission
40	YOSHIZAWA, Masahito	Novel elastic anomalies in $URhGe$
41	TOYOFUKU, Takumi	Verification of electromechanical response in two-dimensional magnetic polar semiconductor $AgCrSe_2$
42	KATO, Takeru	Chemical Substitution Effect in the Pressure-Induced High-Temperature Superconductor $La_3Ni_2O_7$
43	CAVANNA, Gabriele	Size dependence of photocurrents in magnetic metamaterials with threefold rotational symmetry
44	TAKETANI, Hidehisa	Generation of spin currents in a polar ferromagnetic metamaterial using magnetic toroidal moments
45	FURUSAWA, Yudai	High-pressure synthesis and magnetism of $Ca_2ZnReO_6$ : a new candidate material for multipole ordering with double perovskite structure
46	SUGIHARA, Takumi	Exploration for novel 5d transition metal oxides in d-f electron system using high-pressure synthesis
47	MATSUMOTO, Tsugumi	Paraconductivity in bilayer multiphase superconductors
48	OKAMOTO, Naoki	Verification of anisotropic phase diagram of $PrIr_2Zn_{20}$ using magnetostriction and linear thermal expansion coefficient
49	KADOHIRO, Keisuke	Observation of current-induced lattice distortion in spin-orbit coupled iridium oxide $Ca_5Ir_3O_{12}$
50	TAKEDA, Masato	Uniaxial strain effects in voltage-current characteristics of iridium oxide $Ca_5Ir_3O_{12}$ and piezoelectric effects measured by laser Doppler vibrometer

51	ODA, Kazuaki	Enhancement of electronic specific heat coefficient in hexagonal $RNi_4Mn$ ( $R=La, Pr$ ).
52	SUNAZAKI, Kanna	Ferroquadrupolar lattice instability in an antiferromagnetically ordered state in single-crystalline DyCuGe
53	SATAKE, Mizuki	Crystal growth of $EuRh_2P_2$ and $EuRh_4P_{12}$
54	MOTOYAMA, Takeru	Direct observation of spin texture in antiferromagnetic NdBi by micro-focused laser Spin-ARPES
55	SEKINE, Daiki	Optical second harmonic imaging of multipolar domains in a ferroaxial antiferromagnetic $MnTiO_3$
56	NAKAMURA, Shota	Change in antiferromagnetic chiral magnetic structure of $GdNi_3Ga_9$ by cobalt substitution
57	KIRIKOSHI, Akimitsu	Magnetoelectric effect in antiferro-/ferri-magnetic toroidal metal
58	HIGASHINAKA, Ryuji	Large Cyclotron Effective Masses in Antiferromagnet Ordered state in $SmTi_2Al_{20}$
59	KITOU, Shunsuke	Chiral charge order in lacunar spinel compound
60	SHOJI, Makoto	Ferroquadrupolar ordering and successive phase transition in the chiral magnet $DyNi_3Al_9$
61	NAGASE, Yutaro	Formation and Dissociation of $P_2$ Molecule in $Sr(Fe_xNi_{1-x})_2P_2$
62	AKAZAWA, Shinnosuke	Searches for orthorhombic $PrCo_2Ga$ -type rare-earth compounds and measurements of the magnetic properties
63	WATANABE, Kakeru	Cryogenic Scanning Laser Polarizing Microscope Development
64	UNTEN, Kaede	Study of nonmagnetic phase transition at 215 K by Raman scattering and single crystal growth in 12L perovskite oxide $Ba_4Bilr_3O_{12}$
65	MATSUDA, Eri	Theoretical Investigation of parity symmetry breaking in $URu_2Si_2$
66	MATSUBARA, Keita	Spin flip at a chiral domain wall
67	FURUYA, Genta	Chiral orbital order and current-induced magnetization
68	OCHI, Keigo	Exploration of novel quantum phenomena in Cu-V-O ternary system
69	TAKADA, Tadaki	Piezomagnetic Effect in $Fe_2GeS_4$ with Olivine Structure
70	MORI, Kentaro	The Crystal Field Effects on the Pseudo-Skutterudite Compounds $RRuSn_3$ ( $R = Pr, Nd$ )
71	MIYAKE, Masataka	de Haas van Alphen Effect of PdGa with the Chiral Cubic Structure
72	NAKAJIMA, Ryuma	Structural phase transition in CeCoSi
73	KOBAYASHI, Kaya	Layered superconductors without inversion symmetry
74	ONIMARU, Takahiro	Magnetic-field-insensitive phase transition and a field-induced up-up-down order in $YbCuS_2$ with a Yb zigzag chain
75	AOKI, Yuji	Linear Magnetoresistance and Type-I Superconductivity in Dirac Material beta-IrSn <sub>4</sub>
76	SATO, Takumi	Discontinuous Transition to Superconducting Phase
77	YAMANE, Yu	Quadrupolar Fluctuations in a Diluted Non-Kramers Doublet System $Y_{1-x}Pr_xIr_2Zn_{20}$ viewed from magnetization