

**The International Workshop on
“Exotic Quantum Phases due to Unhappy Electrons”**

Nov. 12–14, 2025, Hongo-Asano Campus, the University of Tokyo

Poster Presentation

Nov. 13, 14:10-16:00

Odd-numbered posters: presentation in the first half

Even-numbered posters: presentation in the second half

P1	Origin of multiple skyrmion phases in EuAl_4 studied by soft X-ray ARPES <i>Yuki Arai (Tohoku University)</i>
P2	Elucidation of magnetic order in the vicinity of pressure-induced high- T_c superconductivity in $\text{La}_3\text{Ni}_2\text{O}_{7+\delta}$ <i>Yutaro Arai (Univ. of Tokyo)</i>
P3	Demonstration of a Unique Method for Observing Antiferromagnetic Domains in Metals via Optical Magnetoelectric Effect <i>Keito Arakawa (University of Tokyo)</i>
P4	Unhappy fermions and Ising anyons in a chiral spin liquid <i>Tim Bauer (The University of Tokyo)</i>
P5	Charge ordering state satisfying Anderson condition in spinel-type compounds CuB_2X_4 ($\text{B} = \text{Rh, Ir}$; $\text{X} = \text{S, Se}$) under high pressure <i>Masatoshi Emi (Nagoya Univ.)</i>
P6	Spin Nernst and thermal Hall effects of topological triplons in quantum dimer magnets on the maple-leaf and star lattices <i>Nanse Esaki (University of Tokyo)</i>
P7	Exploring new magnetic phases in 3D extended Kitaev model: interplay of frustration and quantum effect <i>Kiyu Fukui (Ritsumeikan University)</i>
P8	Triple-q orbital orders in a triangular lattice <i>Kazumasa Hattori (Tokyo Metropolitan University)</i>
P9	Dirac charge in antiferromagnetic topological semimetals <i>Kohei Hattori (The University of Tokyo)</i>
P10	Probing s - f correlation in a single Sm atom by scanning tunneling microscopy combined with electron spin resonance <i>Masahiro Haze (University of Tokyo)</i>
P11	Exploration of Magnetic Field Induced Phases in Nonmagnetic SmS and CuGeO_3 <i>Daichi Hidaka (Nagoya University)</i>
P12	Search for Exotic Quantum Phases due to Unhappy Electrons in Extreme Chemical Disorder <i>Daigorou Hirai (Nagoya University)</i>
P13	Negative Thermal Expansion Spin-orbit coupled 5d system in $\text{Pb}_2\text{MgReO}_6$ <i>Towa Hirano (Nagoya University)</i>

P14	Engineering of high-pressure cell for sensitive magnetization measurement <i>Naoka Hiraoka (National Institute for Materials Science)</i>
P15	Time-reversal symmetric f -wave magnets <i>Moritz Hirschmann (RIKEN CEMS)</i>
P16	Epitaxial growth of kagome-lattice alloy CoSn using an ultrathin Co seed layer <i>Tomoya Ikawa (Rikkyo University)</i>
P17	Unhappy $S = 3/2$ Spins under Bilinear-Biquadratic-Bicubic Interactions <i>Sogen Ikegami (University of Tokyo)</i>
P18	Al_2Ge_2 Excitonic Tetramer Formation in Topological Semimetal KAlGe <i>Toshiya Ikenobe (University of Tokyo)</i>
P19	Emergent phases by destabilizing molecular orbital crystals in RuP <i>Kanta Inokuchi (Nagoya University)</i>
P20	A kagome-magnet Co_3Mo films : room-temperature ferrimagnet with perpendicular magnetic anisotropy <i>Keiki Ishida (The University of Tokyo)</i>
P21	Antibonding-orbital order and superconductivity in anionic honeycomb La_2IRu_2 and La_2IOs_2 <i>Hajime Ishikawa (Tokyo University of Science)</i>
P22	Rich type of spin-charge ordering in helimagnetic perovskite-type iron oxides with correlated p electrons <i>Shintaro Ishiwata (The University of Osaka)</i>
P23	Anisotropic thermoelectric transport in Sr_2RuO_4 -Ru eutectic system <i>Takeru Ito (Tokyo University of Science)</i>
P24	Terahertz Field-Induced Cooperative Enhancement of Electronic-Ferroelectric Polarization in LuFe_2O_4 <i>Hirotake Itoh (Kwansei Gakuin University)</i>
P25	Spin-vibronic order in Mott insulating Cs_3C_{60} <i>Naoya Iwahara (Chiba University)</i>
P26	Electric-field control of two-dimensional ferromagnetic properties by chiral ionic gating <i>Naoya Kanazawa (University of Tokyo)</i>
P27	Coupling between orbital and spin degrees of freedom in Jahn-Teller ions for $\text{Co}_{1-x}\text{Fe}_x\text{V}_2\text{O}_4$ <i>Takuro Katsufuji (Waseda University)</i>
P28	Magnetocrystalline anisotropy and giant coercivity in layered cobalt oxide $\text{Sr}_{2.5}\text{Bi}_{0.5}\text{CoO}_5$ single crystal <i>Hideyuki Kawasoko (Tokyo Metropolitan University)</i>
P29	Possible 1D Pt-based magnetism in a rutile-based homologous series $\text{Na}(\text{PtO}_2)_{2n+1}$ <i>Yasuhito Kobayashi (The University of Osaka)</i>
P30	Orbital disordered nonmagnetic insulating state in NbSeI <i>Keita Kojima (University of Tokyo)</i>
P31	Fermi-surface–nesting-driven skyrmions in centrosymmetric magnets revealed by ARPES <i>Takeshi Kondo (The University of Tokyo)</i>

P32	Mathematical crystal chemistry: Mixed integer nonlinear programming for crystal structure prediction <i>Ryotaro Koshiji (The University of Tokyo)</i>
P33	Domain arrangement of layered LiVO_2 revealed by 3D- Δ PDF analysis <i>Taisei Kubo (Nagoya University)</i>
P34	Magnetoelectric Effects on Kitaev Spin Liquid: Majorana Parton Mean-Field Approach <i>Seong Jun Kwon (University of Tokyo)</i>
P35	Precise magnetization measurement of pressure-induced superconductivity in nickelates <i>Keita Masaki (University of Tokyo)</i>
P36	First-principles study of odd-parity responses driven by conventional antiferromagnetism <i>Jin Matsuda (The University of Tokyo)</i>
P37	Muon Knight shift as a precise probe of spin susceptibility of superconducting Sr_2RuO_4 <i>Hisakazu Matsuki (Kyoto University)</i>
P38	Almost ferromagnetic spiral spin liquid in $\text{Ca}_{10}\text{Cr}_7\text{O}_{28}$ <i>Yosuke Matsumoto (Max Planck Institute for Solid State Research)</i>
P39	Spin Current Generation in 5d Oxides with Strong Spin–Orbit Coupling <i>Jobu Matsuno (University of Osaka)</i>
P40	Hydrothermal synthesis and magnetic properties of novel chromium arsenate - $\text{NaCr}(\text{HAsO}_4)_2 \cdot \text{H}_2\text{O}$ <i>Shinji Matsuura (University of Tokyo)</i>
P41	The Unhappy Superconductor: Controversies in Sr_2RuO_4 and Shear Strain <i>Giordano Mattoni (Kyoto University)</i>
P42	Discovery of 1Q and 2Q Transversely Modulated Superlattices Induced By Unhappy Kagome Dimers <i>Ryo Misawa (The University of Tokyo)</i>
P43	Direct observation of phonon dispersion in $(\text{RuRhPdIrPt})\text{Sb}$ <i>Kengo Miyata (Nagoya University)</i>
P44	Exactly-Solvable Kitaev-Type Models on Lattices with Decorated Sites <i>Tomonari Mizoguchi (University of Tsukuba)</i>
P45	Understanding and Enhancing Superconductivity in Cuprates with Low-Energy Hamiltonians and Explicit Machine Learning <i>Jean-Baptiste Morée (RIKEN Center for Emergent Matter Science)</i>
P46	Two-dimensional superconducting diode effect in topological insulator/superconductor heterostructure <i>Soma Nagahama (The University of Tokyo)</i>
P47	Nonreciprocal charge transport in an iron-based superconductor with hydrogen-gradient-induced inversion-symmetry breaking <i>Takayuki Nagai (University of Tokyo)</i>
P48	Magnetic property of a series of new Zintl phase LiRGa_4 (R=rare earth) <i>Keita Nagasawa (The University of Tokyo)</i>

P49	Competition between pressure-induced resistivity upturn and superconductivity in stripe-ordered cuprate $\text{La}_{1.6-x}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$ <i>Masamichi Nakajima (RIKEN Center for Emergent Matter Science)</i>
P50	Nonreciprocal electrical transport in high-temperature helical magnets <i>Daisuke Nakamura (RIKEN)</i>
P51	Intrinsic superconducting diode effect in the competition between antiferromagnetic and superconducting orders <i>Kyohei Nakamura (Kyoto University)</i>
P52	Huge thermoelectric power factor assisted by unhappy electrons in one-dimensional semimetal Ta_2PdSe_6 <i>Akitoshi Nakano (Nagoya University)</i>
P53	Imaging of Current-Induced Superconducting Vortex Nucleation in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ <i>Shunsuke Nishimura (The University of Tokyo)</i>
P54	The cubic phase induced by high-intensity X-ray irradiation at low-temperature in CuIr_2S_4 <i>Tsubasa Ohashi (Okayama University)</i>
P55	Piezomagnetic Effect in Altermagnets <i>Kenya Ohgushi (Tohoku University)</i>
P56	Anisotropic magneto-transport properties of WSi_2 single crystal <i>Shoya Ohsumi (Tokyo University of Science)</i>
P57	Enhanced magneto-optical effect by spin chirality in skyrmion-hosting Mott insulator <i>Yoshihiro Okamura (The University of Tokyo)</i>
P58	Magnetotransport Phenomena in Ferromagnetic Metallic Oxide EuTaO_3 Thin Films with Strong Spin-Orbit Coupling <i>Hikaru Okuma (University of Tokyo)</i>
P59	Odd-parity spin splitting and anomalous Hall effect induced by commensurate spin spirals <i>Shun Okumura (The University of Tokyo)</i>
P60	Superconductivity across pressure regimes in bilayer nickelate films <i>Motoki Osada (University of Tokyo)</i>
P61	Unusual Sn Valence in Charge-Entropy-Stabilized $(\text{Ag},\text{Sn})\text{Se}$ <i>Mohamed Oudah (University of British Columbia)</i>
P62	Higher-order epitaxy: A pathway to suppressing structural instability and emergent superconductivity <i>Yuki Sato (RIKEN CEMS)</i>
P63	Superconducting Dome and Quantum Criticality in Two-dimensional NbO_2 Triangular Lattice <i>Takuto Soma (Institute of Science Tokyo)</i>
P64	Quadrupole response of magnetic impurity as a flux probe in a gapless spin liquid <i>Masahiro O. Takahashi (RIKEN)</i>
P65	Synthesis and physical properties of MoSBr -type compounds with molecular orbital degrees of freedom <i>Hayato Takano (The University of Tokyo)</i>

P66	Development of new van der Waals magnets comprising ordered-honeycomb lattice <i>Tomohiro Takayama (National Institute for Materials Science)</i>
P67	Nernst effect enhanced by Fermi surface nesting in band-touching semimetal GdPtBi <i>Toshihiro Terakawa (The University of Tokyo)</i>
P68	Chemical Tuning and Microscopic Mechanism of Inversion-Symmetry-Breaking Transitions in Sn-Cage Compounds $\text{Ln}_3\text{Co}_4\text{Sn}_{13}$ (Ln = La, Sm) <i>Ryuta Toda (Nagoya University)</i>
P69	Thermoelectric property measurements of kagome metal Ni_3In exhibiting non-Fermi-liquid behavior <i>Takuya Udagawa (Tokyo University of Science)</i>
P70	Anomalous metallic states on magnetic interfaces in an antiferromagnetic topological insulator DyPtBi with ferroquadrupolar order <i>Kentaro Ueda (University of Tokyo)</i>
P71	“Electride” Electrons in Alkaline Earth Pnictides related to the Mn_5Si_3 type of structure <i>Ulrich Wedig (Max Planck Institute for Solid State Research)</i>
P72	Current control of spin helicity and nonreciprocal charge transport in a multiferroic conductor <i>Daiki Yamaguchi (The University of Tokyo)</i>
P73	Effect of Co substitution on the thermoelectric properties of kagome metal Ni_3Sn <i>Shogo Yoshida (Tokyo University of Science)</i>
P74	Single crystal growth and superconducting properties of hexagonal Sc_6FeTe_2 <i>Kosuke Yuchi (The University of Tokyo)</i>
P75	Pressure Tuning of Superconductivity in the van der Waals heterostructure 4Hb-TaS ₂ <i>Qixiang Zhang (Tohoku University)</i>
P76	Non-Perturbative Analysis of Spin Exchanges in Cuprates <i>Lingzhi Zhang (University of Tokyo and RIKEN CEMS)</i>