

LIST OF POSTER PRESENTERS

POSTER SESSION 1 TUESDAY,
NOV 8, 2022

Kana Sakaguri The University of Tokyo	Preparation for the Simons Array CMB polarization experiment and development of optical elements	PS1-01
Naotaka Yoshikawa The University of Tokyo	The observation of chiral gauge field in the Floquet state of 3D Dirac semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$	PS1-02
Wen Si Tokyo Institute of Technology	Substrate-induced Broken C4 Symmetry and Gap Variation in Superconducting Monolayer FeSe/SrTiO ₃ - /13 x/13	PS1-03
Takahika Isomae The University of Tokyo	Unsaturated Large Magnetoresistance in the Quadrupolar Kondo Lattice System $\text{PrTi}_2\text{Al}_{10}$	PS1-04
Ryo Kainuma Tokyo Institute of Technology	Magnon-polariton in multiferroic BiFeO_3	PS1-05
Kouki Yamamoto The University of Tokyo	Nanodiamond quantum thermometer assisted with machine learning	PS1-06
Eria Imada The University of Tokyo	NMR study on Bose-Einstein condensation under magnetic fields in quasi-two-dimensional antiferromagnet YbCl_3	PS1-07
Akifumi Mine The University of Tokyo	Direct observation of the superconducting gap in the topological superconductor PdBi_2 by low-temperature and high-resolution laser ARPES	PS1-08
Yuto Kinoshita The University of Tokyo	Field-induced re-Insulation in the extreme quantum state of a topological insulator $\text{Bi}_{1-x}\text{Sb}_x$ ($x \sim 0.1$)	PS1-09
Hiroki Matsumoto The University of Tokyo	Cavity magnetomechanics of surface acoustic waves with a synthetic antiferromagnet	PS1-10
Takuya Takashiro The University of Tokyo	Soft-magnetic skyrmions induced in a sandwich structure with intrinsic ferromagnetic topological insulators	PS1-11
Yoshua Hirai The University of Tokyo	Circularly polarized light-induced terahertz anomalous Hall effect of three-dimensional Dirac electrons in bismuth	PS1-12
Kazuma Ogawa The University of Tokyo	All-optical switching of chirality and magnetization in ferromagnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$	PS1-13
Seyed Reza Chazanfari The University of Tokyo	Cubic ferromagnet and its emergent phenomenon in the vicinity of phase boundary	PS1-14
Kouta Kondou RIKEN	Magnetic spin Hall effect and its spin-orbit torque in a topological Weyl antiferromagnet	PS1-15
Kouta Kondou RIKEN	Investigation of magnetic octupole domain wall dynamics in a topological antiferromagnet	PS1-16
Ibuki Taniuchi The University of Tokyo	Circular photogalvanic effect in surface superstructures on $\text{Si}(111)$ with huge Rashba-splittings	PS1-17
Masahiko Yunokizaki The University of Tokyo	Fabrication of sub-micron size MTJ device.	PS1-18
Takuya Matsuda The University of Tokyo	Extreme nonequilibrium states in strongly-correlated Weyl antiferromagnet studied by terahertz spectroscopy	PS1-19
Zili Feng The University of Tokyo	Giant and Robust ANE in a Polycrystalline Topological Ferromagnet Fe_3Ga	PS1-20
Yuki Amari The University of Tokyo	CP^2 Skyrmion crystals in an $\text{SU}(3)$ magnet with a generalized Dzyaloshinskii-Moriya interaction	PS1-21
Kaishu Kawaguchi The University of Tokyo	Development of time-, spin- and angle-resolved photoemission spectroscopy system with 10.7-eV laser at 1-MHz repetition rate	PS1-22

Kouhei Fukai The University of Tokyo	The local conserved quantities of open spin-1/2 XYZ chain	PS1-23
Hanshen Tsai The University of Tokyo	Large Hall Signal due to Electrical Switching of an Antiferromagnetic Weyl Semimetal State	PS1-24
Yangming Wang The University of Tokyo	Large anomalous Nernst effect in the ferromagnetic Fe ₃ Si polycrystal	PS1-25
Ryota Uesugi The University of Tokyo	Atomic ordering dependence of anomalous Nernst effect in thin films of the Weyl magnet Co ₂ MnGa	PS1-26
Yasuhiro Tada Hiroshima University	Projective spatial symmetry and Lieb-Schultz-Mattis theorem	PS1-27
Yigui Zhong The University of Tokyo	Testing Electron-phonon Coupling for the Superconductivity in Kagome Metal CsV ₂ Sb ₅	PS1-28
Kansei Inamura The University of Tokyo	Topological field theories and gapped Hamiltonians with fusion category symmetries in 1+1 dimensions	PS1-29
Qifang Li The University of Tokyo	Quantum Monte Carlo Simulation of the Phase Transition and Electric Properties in Kagome Metal	PS1-30
Yuichiro Tada Nagoya University	Stochastic approach to cosmic inflation	PS1-31
Yoshitaka Okuyama The University of Tokyo	Method of images in defect conformal field theories	PS1-32
Kohki Kawabata The University of Tokyo	Narain CFTs from quantum error-correcting codes	PS1-33
Naoya Ozawa The University of Tokyo	Progress towards electron electric dipole moment measurement using laser-cooled francium	PS1-34
Mio Ishibashi The University of Tokyo	Error rate of a ferrimagnetic spin shift resist	PS1-35
Zohreh Shahrabifarahani Okinawa Institute of Science and Technology Graduate University	Designing an experiment for four-wave mixing with optical nanofiber evanescent dipole-trapped atoms.	PS1-36
Josh Kirklin Okinawa Institute of Science and Technology	Emergent classical gauge symmetry from quantum entanglement	PS1-37
Timothy Dennett Michael Forrer The University of Tokyo	Bipartite distributed quantum computing with entanglement-assisting packing processes	PS1-38
Tatsuki Odake The University of Tokyo	Quantum algorithms for transforming Hamiltonian Dynamics	PS1-39
Tsubasa Ichikawa Osaka University	Measuring Bell Inequality violation at ATLAS experiment with flavor entanglement of B meson pairs from proton-proton colliders	PS1-40
Hler Kristjansson The University of Tokyo	Quantum networks with coherent routing of information through multiple nodes	PS1-41
Shigetora Miyashita Keio University	Quantum simulation of Dirac, Majorana, and Weyl fermions in first quantization	PS1-42
Yutaka Hashimoto The University of Tokyo	Comparison of unknown unitary channels with multiple uses	PS1-43

LIST OF POSTER PRESENTERS

POSTER SESSION 2 THURSDAY,
NOV 10, 2022

Yuka Oshima The University of Tokyo	Torsion-Bar Antenna for Low-Frequency Gravity Gradient Observation	PS2-01
Toshiki Hiraoka Tokyo Institute of Technology	Sublattice selectivity of the inverse Faraday effect in ferrimagnets	PS2-02
Akito Sakai The University of Tokyo	Heavy fermion multigap superconductivity in the ferroquadrupole ordered state of $\text{PrTi}_2\text{Al}_{10}$	PS2-03
Shunichiro Kurosawa The University of Tokyo	Detail investigation on the relation between the magneto-transport properties and the chiral anomaly in the Weyl antiferromagnet Mn_3Sn	PS2-04
Takumi Matsuo The University of Tokyo	Preferred orientation and improved interfaces in sputtered $\text{Mn}_3\text{Sn}/\text{Ta}$ films	PS2-05
Xiaoni Zhang The University of Tokyo	Electronic topological transition of 2D boron by the ion exchange reaction	PS2-06
Ryosuke Hirakida The University of Tokyo	The Chirality-dependent second-order spin current in systems with time-reversal symmetry	PS2-07
Ryota Akiyama The University of Tokyo	Growth of atomically flat topological crystalline insulator $\text{SnTe}(001)$ thin films using the room temperature wetting layer method and its electrical transport measurements	PS2-08
Shoya Sakamoto The University of Tokyo	Giant orbital polarization at the Fe/MgO interface probed by depth-resolved x-ray magnetic circular dichroism	PS2-09
Ryotaro Sano Kyoto University	Breaking down the magnonic Wiedemann-Franz law in the hydrodynamic regime	PS2-10
Susumu Minami The University of Tokyo	Anomalous Nernst effect in the iron-based kagome ferromagnet Fe_3Sn	PS2-11
Toshiya Ikenobe The University of Tokyo	Unusual Superconductivity in the Nodal-Line Semimetal NaAlSi	PS2-12
Hanyi Peng The University of Tokyo	Large magneto-optical Kerr effect in polycrystalline Mn_3Sn thin films	PS2-13
Yuta Murotani The University of Tokyo	Light-induced anomalous Hall effect in 3D Dirac semimetal Cd_3As_2 revealed by THz spectroscopy	PS2-14
Shun Okumura The University of Tokyo	Magnetic hedgehog lattices in itinerant magnets	PS2-15
Shinichiro Asai The University of Tokyo	Neutron scattering on van der Waals ferromagnet $\text{Fe}_{1-x}\text{GeTe}_2$	PS2-16
Zheyuan Liu The University of Tokyo	Inelastic Neutron Scattering Study on a Helimagnet $\text{Ni}_2\text{InSbO}_6$	PS2-17
Hironari Isshiki The University of Tokyo	Determination of spin Hall angle in the Weyl ferromagnet Co_2MnGa by taking into account the thermoelectric contributions	PS2-18
Toshihiko Muroi The University of Tokyo	Magnetic field effects on structural domains and magnetism in double perovskite $\text{Ba}_2\text{MgReO}_6$	PS2-19
Masaki Kato The University of Tokyo	Theory on transport properties of chiral phonons and its application to α -quartz	PS2-20

Yuto Fukushima The University of Tokyo	Observation of unoccupied states and topological characterization of Bi(111)	PS2-21
Hiroto Nakamura The University of Tokyo	Observation of logarithmic anomaly in the transverse thermoelectric conductivity at low temperature in ferromagnet CoMnSb	PS2-22
Shunsuke Sato The University of Tokyo	Development of the simultaneous measurement system of four-point-probe electrical transport and tunneling spectroscopy	PS2-23
Kensuke Yoshida The University of Tokyo	Experimental Study of Surface States in Superfluid Helium 3-B phase	PS2-24
Mihiro Asakura The University of Tokyo	Physical properties of polycrystalline Mn_2Sn films deposited by molecular beam epitaxy	PS2-25
Yago del Valle Inclan Redondo RIKEN & NTT Research	Optically driven rotation of exciton-polariton condensates	PS2-26
Yuichiro Hidaka The University of Tokyo	Phase diagram of anisotropic triangular strip spin model	PS2-27
Wei-Lin Tu Korea University	Tensor network ansatz for the quantum many-body models	PS2-28
Yuki Koike The University of Tokyo	Effects of Mn-doping in Mn_2Sn on the Phase Transitions and Transport Properties near Criticality	PS2-29
Hiroyasu Koizumi University of Tsukuba	Schrödinger representation of quantum mechanics, Berry connection, and superconductivity	PS2-30
Jason Kristiano The University of Tokyo	One-loop perturbativity bound in single-field inflation	PS2-31
Shutaro Shimamura The University of Tokyo	Foliated-exotic duality in fractonic BF theories	PS2-32
Shinichiro Yahagi The University of Tokyo	Conformal field theories and error correcting codes	PS2-33
Rurie Mizuno The University of Tokyo	Measurement of muon-induced nuclear transmutation for Si isotopes.	PS2-34
Kyosuke Ishito Tokyo Institute of Technology	Truly chiral phonons in α -HgS	PS2-35
Shoki Koyanagi Kyoto University	Numerically "exact" simulation of quantum Carnot cycle: Dynamics and thermodynamics	PS2-36
Alexey Vylegzhanin Okinawa Institute of Science and Technology Graduate University	Rydberg Atom Interactions with an Optical Nanofiber	PS2-37
Hayata Yamasaki The University of Tokyo	Time-Efficient Constant-Space-Overhead Fault-Tolerant Quantum Computation	PS2-38
Satoshi Yoshida The University of Tokyo	Reversing unknown qubit-unitary operation, deterministically and exactly	PS2-39
Shunsuke Kamimura University of Tsukuba	Universal Scaling Bounds on a Quantum Heat Current	PS2-40