Poster Session 1 _ Tuesday, May 11, 2021

| Poster No. | Poster Session 1 _ Remo Floor 1 |
|---------------|--|
| PS1-01 | Makoto Masuko (The University of Tokyo) |
| P51-01 | Nonreciprocal charge transport in topological insulator $(Bi,Sb)_2Te_3$ / superconductor PdTe ₂ junctions |
| | Ryutaro Okuma (University of Oxford) |
| PS1-02 | Dimensional reduction by geometrical frustration in a cubic antiferromagnet composed of tetrahedral clusters |
| PS1-03 | Oleg Utesov (B.P. Konstantinov Petersburg Nuclear Physics Institute, National Research Center "Kurchatov Institute") Mean-field approach for thermodynamically stable skyrmion lattices in frustrated antiferromagnets with dipolar interaction |
| PS1-04 | Hirotaka Abe (University of Hyogo) |
| F31-04 | Observation of magnetic domains of GdFeCo thin film under laser irradiation |
| PS1-05 | Ryunosuke Takahashi (University of Hyogo) |
| P31-05 | Synthesis and superconducting properties of EuSn ₂ As ₂ |
| 504.00 | Masahiko G. Yamada (Osaka University) |
| PS1-06 | Electric probe for the toric code phase in Kitaev materials through the hyperfine interaction |
| DC1 07 | Yoshihiko Okamoto (Nagoya University) |
| PS1-07 | Superconductivity in One-Dimensional Tellurides $Nb_2Pd_3Te_5$ and Chemically-Doped $Ta_2Pd_3Te_5$ |
| DO1 00 | Kazuhiro Kimura (Kyoto University) |
| PS1-08 | Probing the three-state Potts nematic fluctuation by ultrasound |
| DO1 00 | Ryotaro Sano (Kyoto University) |
| PS1-09 | Nonreciprocal electron hydrodynamics in noncentrosymmetric metals under magnetic fields with applications of nonreciprocal surface magneto-plasmon |
| PS1-10 | Shuichi Iwakiri (Osaka University) |
| PS1-10 | Nonlinear transport in Magnetic Tunnel Junction |
| L | Kento Sasaki (The University of Tokyo) |
| PS1-11 | Detection and control of a single proton spin in a diamond thin film with a single quantum sensor |
| 5 | Shun Okumura (ISSP) |
| PS1-12 | Hedgehog Lattice in a Centrosymmetric Cubic Metal |

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Poster Session 1 _ Tuesday, May 11, 2021

| Poster No. | Poster Session 1 _ Remo Floor 2 |
|------------|---|
| PS1-13 | Tatsuya Miki (Saitama University) |
| F31-13 | Odd-frequency pairing inherent in Bogoliubov Fermi liquid |
| PS1-14 | Joji Nasu (Yokohama National University) |
| F31-14 | Spin-Splitting and Spin Seebeck Effect on Nonmagnetic Excitonic Insulators |
| PS1-15 | Koji Inui (The University of Tokyo) |
| F31-15 | Determinant-free fermionic wave function using a feed-forward neural network |
| PS1-16 | Kotaro Shimizu (The University of Tokyo) |
| P31-10 | Phason in multiple-Q topological spin textures |
| DC1 17 | Aki Kitaori (The University of Tokyo) |
| PS1-17 | Emergent induction of YMn_6Sn_6 , beyond room temperature |
| D04.40 | Moeta Tsukamoto (The University of Tokyo) |
| PS1-18 | Magnetic domain structure imaging using diamond quantum sensor |
| PS1-19 | Masamichi Nakajima (Osaka University) |
| F31-19 | Elastoresistivity measurement on iron-based superconductor $Ba_{1-x}K_xFe_2As_2$ |
| PS1-20 | Kiyu Fukui (The University of Tokyo) |
| P51-20 | Pseudo-fermion Functional Renormalization Group Study on the Feasibility of Kitaev Quantum Spin Liquid |
| DC1 01 | Kenta Kimura (The University of Tokyo) |
| PS1-21 | Orthogonal Magnetization Induced by a Combination of Magnetic Quadrupoles and Crystal Chirality |
| D64.00 | Masahiro O. Takahashi (Osaka University) |
| PS1-22 | Topological Nematic Phase Transition in Kitaev Magnets Under Applied Magnetic Fields |
| 1 | Rico Pohle (The University of Tokyo) |
| PS1-23 | Dynamics of a quantum liquid crystal from numerical simulation |
| | Koki Eto (Nagoya University) |
| PS1-24 | Crystal Structure and Physical Properties of Geometrically Frustrated 4f Magnets $NaLnTe_2$ ($Ln = Ce$, Pr, Nd) |

Poster Session 1 _ Tuesday, May 11, 2021

| | Poster No. | Poster Session 1 _ Remo Floor 3 |
|-------------------------|------------|---|
| | PS1-25 | Minoru Kanega (Ibaraki University) |
| | | Numerical analysis of optical fermionic response in Kitaev spin liquids |
| | PS1-26 | Sparsh Mishra (Nagoya University) |
| | | Effect of long-range Coulomb interaction on the surface state of a topological Insulator |
| | DC4 07 | Haruhisa Kitano (Aoyama Gakuin University) |
| | PS1-27 | Contribution of Josephson current and its nonequilibrium effects in the c-axis short weak links of $FeTe_{0.6}Se_{0.4}$ superconductors |
| | PS1-28 | Yusaku Shinoda (Nagoya University) |
| | | Superconductivity in $Ca_3M_4Bi_8$ (M = Pd, Pt) |
| | PS1-29 | Michiya Chazono (Kyoto University) |
| | F31-29 | Magnetopiezoelectric Effect in Superconductors |
| | DC1 20 | Yoichi Kageyama (The University of Tokyo) |
| | PS1-30 | Laser-PEEM study on electron nematicity in $Ba_{1-x}Na_xFe_2As_2$ with x = 0.18 |
| | PS1-31 | Akira Matsui (The University of Tokyo) |
| | | Skyrmion-size dependence of the topological Hall effect: A real-space calculation |
| | PS1-32 | Takeshi Hayashida (The University of Tokyo) |
| | | Visualization of ferroaxial domains in $RbFe(MoO_4)_2$ via electrogyration |
| | | Yoshito Watanabe (The University of Tokyo) |
| 3 | PS1-33 | Control of the magnetic phase diagram of $Ba_2CoGe_2O_7$ by the partial substitution of non-magnetic Zn^{2+} for Co^{2+} |
| Remo Floor 3 | D04.04 | Taisei Kitamura (Kyoto University) |
| temo | PS1-34 | Nontrivial correction due to geometric effect to superfluid weight in monolayer FeSe on $SrTiO_3$ |
| 1 | PS1-35 | Kensuke Ogawa (The University of Tokyo) |
| Poster Session 1 | | Development of temperature imaging technique using diamond quantum sensor |
| | | Yajian Hu (Kyoto University) |
| Pos | PS1-36 | An all-fiber magneto-optical Kerr effect setup towards detection of chiral superconductivity |

Poster Session 1 _ Tuesday, May 11, 2021

| | Poster No. | Poster Session 1 _ Remo Floor 4 |
|--------------|------------|---|
| | PS1-37 | Seiichiro Onari (Nagoya University) |
| | | Analysis of phase diagram in $FeSe_{1-x}Te_x$ |
| | PS1-38 | Akito Daido (Kyoto University) |
| | F 3 1-30 | Thermodynamic formulation of electric quadrupole moments |
| | DS1 20 | Kazuki Nakazawa (The University of Tokyo) |
| | PS1-39 | Thermal transport in the Kitaev spin liquid under a staggered magnetic field |
| | PS1-40 | Yue Sun (Aoyama Gaguin University) |
| | F 3 1-40 | Out-of-plane transport properties of FeSe single crystal |
| | PS1-41 | Ryota Watanabe (The University of Tokyo) |
| | | Enhancement of anomalous Hall effect in Fermi energy tuned intrinsic magnetic topological insulator Mn(Bi,Sb) ₂ Te ₄ thin films |
| | PS1-42 | Yuma Umimoto (The University of Tokyo) |
| 4 | | Magnetic Alignment of Pseudo-polyrotaxane Nanosheets |
| Remo Floor 4 | PS1-43 | Yoshiki Tani (University of Hyogo) |
| Remo | | Observation of magnetic domains of $NiCo_2O_4$ thin films by a MOKE microscope |
| - | PS1-44 | Kazushi Aoyama (Osaka University) |
| Session | | Frustration-induced hedgehog lattice in breathing-pyrochlore Heisenberg antiferromagnets |
| Poster S | PS1-45 | Hiroshi Watanabe (Ritsumeikan University) |
| Ъö | | Unified Description of cuprate superconductors using four-band d-p model |

| | Poster No. | Poster Session 2 _ Remo Floor 1 |
|---------------------------------|---------------|---|
| | PS2-01 | Tokuro Shimokawa (OIST) |
| | | High-field spin nematic state in S=1/2 J_1 -K square-lattice ferromagnet -Exact diagonalization study and related new open-source package QS ³ - |
| | | Matthias Gohlke (OIST) |
| | PS2-02 | High-Field Spin-Nematic State in the S=1/2 J-K Square-Lattice Frustrated Ferromagnet |
| | PS2-03 | Makoto Naka (Waseda University) |
| | | Spin current generation in collinear antiferromagnets |
| | PS2-04 | Ryuta Iwazaki (Saitama University) |
| | | Spin-orbital model for fullerides |
| | PS2-05 | cancel |
| | DOO 00 | Yoshihiro Kato (The University of Tokyo) |
| | PS2-06 | Topological magneto-optical effect induced by small-size skyrmion lattice |
| | PS2-07 | Kentaro Ueda (The University of Tokyo) |
| | | Realization of quantum spin ice and tunable anomalous Hall effect in pyrochlore semimetal $Pr_2Ir_2O_7$ |
| | PS2-08 | Yutaka Akagi (The University of Tokyo) |
| | | Topological Magnons from "nematicity" |
| | PS2-09 | Satoshi Ando (Nagoya University) |
| Poster Session 2 _ Remo Floor 1 | | Development of spin fluctuation under the presence of d-wave bond order in cuprate superconductors |
| | PS2-10 | Kazutaka Kudo (Osaka University) |
| | | Superconductivity of the Fully and Partially Ordered Laves Phase Compounds |
| | PS2-11 | Taiki Kawamura (Nagoya University) |
| | | Magnetism induced by the nesting vector at the edge of the single-component molecular conductor [Pt(dmdt) ₂] |
| | PS2-12 | Tadashi Adachi (Sophia University) |
| | | Chiral Superconductivity in BaPtAs _{1-x} Sb _x with a Honeycomb Network |

| | Poster No. | Poster Session 2 _ Remo Floor 2 |
|------------------|------------|---|
| | PS2-13 | Sosuke Hori (Osaka University) |
| | | Spin Hall magnetoresistance in CoFeB/SrIrO ₃ bilayer |
| | PS2-14 | Daigo Ohki (Nagoya University) |
| | | Insulating mechanism of organic Dirac electron system $\alpha\text{-}(\text{BEDT-TTF})_2I_3$ and $\alpha\text{-}(\text{BETS})_2I_3$ |
| | PS2-15 | Shunsuke Furuya (Ibaraki University) |
| | | DC electric-field controls of superexchange and Dzyaloshinskii-Moriya interactions |
| | PS2-16 | Tsutomu Nojima (Tohoku University) |
| | | Anomalous Metallic Transport Induced by Ferroelectric Transition in Ion-Gated SrTiO $_3$ |
| | | Takami Tohyama (Tokyo University of Science) |
| | PS2-17 | Antiphase Oscillations in the Time-Resolved Spin Structure Factor of Photoexcited Two-Dimensional Mott Insulator |
| | 500.40 | Takanori Sugimoto (Tokyo University of Science) |
| | PS2-18 | Effects of bond alternation and backscattering interaction in a 2D electron system with spontaneous breaking of rotational symmetry |
| | PS2-19 | Youichi Yamakawa (Nagoya University) |
| | | Unconventional orbital-charge density wave mechanism in transition metal dichalcogenide $1T-TaS_2$ |
| | PS2-20 | Kimberly Remund (OIST) |
| | | New Method for Studying Dynamics and Thermodynamics of Spin-1 Magnets: Application to the Ferroquadrupolar Order |
| | PS2-21 | Hiroshi Ikuta (Nagoya University) |
| 01 | | Transport Anisotropy of NdFeAs(O,F) and NdFeAs(O,H) |
| -loor | PS2-22 | Akira Kofuji (Kyoto University) |
| Remo Floor 2 | | Effects of strong correlations on nonlinear responses |
| 1 | PS2-23 | Yota Komiyama (Sophia University) |
| ssion | F 32-23 | Fe-Substitution Effects on Ferromagnetic Fluctuations in Heavily Overdoped Bi-2201 Cuprates |
| Poster Session 2 | | Yusuke Nagakubo (Sophia university) |
| Pos | PS2-24 | Hall Resistivity in the Electron-Doped High-Tc Cuprates $Pr_{1.3-x}La_{0.7}Ce_xCuO_4$ Reduced by Improved Annealing |

| | Poster No. | Poster Session 2 _ Remo Floor 3 |
|----------------------|---------------|---|
| | PS2-25 | Yusuke Masaki (Tohoku University) |
| | | Vortices in ³ P ₂ Nematic Superfluid: Majorana fermion and non-Abelian half-quantum vortex |
| | PS2-26 | Ryo Araki (Kyoto University) |
| | | Current-induced two-fold anisotropy of the upper critical field of Sr_2RuO_4 |
| | PS2-27 | Koki Shinada (Kyoto University) |
| | | Nonreciprocal current induced by ferromagnetism in a Kondo lattice with Rashba-type SOC |
| | DOO OO | Shun Matsubara (Nagoya University) |
| | PS2-28 | Strong coupling theory for odd-frequency surface superconductivity with spontaneous spin current due to zero-energy Andreev-bound-state |
| | PS2-29 | cancel |
| | PS2-30 | Kazuhiro Nawa (IMRAM, Tohoku University) |
| | | Search for the J ₁ -J ₂ low-dimensional frustrated magnet |
| | PS2-31 | Yuta Mizukami (The University of Tokyo) |
| | | Field-angle dependence of Majorana gap in a Kitaev spin liquid revealed by heat capacity measurements |
| | PS2-32 | Yoshiaki Uchida (Osaka University) |
| | | Spins in Liquid Crystal |
| | PS2-33 | Masaki Roppongi (The University of Tokyo) |
| ი. | | Low-energy quasiparticle excitations in ${\rm Bi}Ch_2$ -based superconductor studied by magnetic penetration depth measurements |
| loor | PS2-34 | Satoshi Tsuchiya (Hokkaido University) |
| Remo Floor 3 | | Ultrafast destruction and recovery of the Mott state in κ -(BEDT-TTF) ₂ Cu[N(CN) ₂]Cl studied by three- pulse pump probe spectroscopy |
| Poster Session 2 _ F | PS2-35 | Yasunori Toda (Hokkaido University) |
| | | Optical vortex generation and control in rotationally symmetry-breaking microcavities |
| | PS2-36 | Hideto Fukazawa (Chiba University) |
| Po | | Pseudogap Behavior in T'-Pr _{1.3-x} La _{0.7} Ce _x CuO ₄ and T'-La _{1.8} Eu _{0.2} CuO _{4-y} F _y Studied by ^{63,65} Cu NMR |

| F | Poster No. | Poster Session 2 _ Remo Floor 4 |
|------------------|---------------|--|
| | PS2-37 | Takuya Aoyama (Tohoku University) |
| | | Pressure-induced orbital switching in iron-based ladder material $BaFe_2(S_{1-x}Se_x)_3$ |
| | PS2-38 | Christopher Butler (RIKEN CEMS) |
| | | Observation of Electronic Nematic Order in the Correlated Dirac Semimetal BaNiS ₂ |
| | | Hirotake Itoh (Tohoku University) |
| _ | PS2-39 | Ultrafast photoresponse of electronic-ferroelectric domains depinned by anion ordering in strongly correlated organic conductors |
| | PS2-40 | Ziyang Liu (Nagoya University) |
| | 1 32-40 | 181 Ta-NQR Study of the Electronic State of Excitonic Insulator Candidate Ta_2NiSe_5 |
| | PS2-41 | Yoshiaki Kobayashi (Nagoya University) |
| | F 32-41 | Phase diagram of Iron Pnictide Superconductor $(La_{0.5-x}Na_{0.5+x})Fe_2As_2$ (x =0 ~ 0.3) |
| | DOO 40 | Ryusuke Misawa (The University of Tokyo) |
| | PS2-42 | Magnetic quadrupole order on chiral antiferromagnets probed by utilizing circularly polarized resonant x-ray scattering |
| | DC0 40 | Hideyuki Fujihara (Tohoku University) |
| | PS2-43 | Ligand substitution effect of Kitaev-spin liquid candidate materials RuX_3 (X = CI, Br, and I) |
| | PS2-44 | Takamasa Ohashi (Nagoya University) |
| | | Nuclear quadrupole resonance in Kitaev quantum spin liquid candidate $Ru_{1-x}Os_xCl_3$ |
| | D00.45 | Tianchun Wang (The University of Tokyo) |
| _ | PS2-45 | Absence of conventional room temperature superconductivity at high pressure in carbon doped H_3S |
| loor 4 | DOO 40 | Takemi Yamada (Tokyo University of Science) |
| Remo Floor | PS2-46 | Theoretical analysis of the nonmagnetic nematic states of FeSe based on the DFT+U method and Wannier model |
| 1 | PS2-47 | Taku Matsushita (Nagoya University) |
| Poster Session 2 | | Quantum Critical Behaviors of Spin-Liquid Candidate S=1/2 Kagome Magnet Cu-CAT-1 |
| ter Se | | Yuki Kojima (Tokyo Institute of Technology) |
| Post | PS2-48 | Inelastic neutron scattering study of a stacked spin-1/2 triangular and honeycomb lattices antiferromagnet Ba_2CoTeO_6 |