

The 14th APCTP Workshop on Multiferroics

Poster Session

13:50-15:40, Thursday, October 19, 2023

Poster No.

PS-01	Hiroshi Nakajima (Osaka Metropolitan University) Aligned polar boundaries embedded in nonpolar domains in ferroelectric Ho(Mn, Ti)O _{3+δ}
PS-02	Aaron Merlin Müller (ETH Zürich) Effect of strain on the 3D domain structure of hexagonal manganites
PS-03	Soumyaranjan Ratha (Akita University) Optimizing the Etching Conditions with Minimal Damage and High Rate for High Functional Magnetic Nano Device Application in BiFeO ₃ -based Multiferroic Thin Films
PS-04	Akiko Kamigaito (Ochanomizu University) Ferroelectric and magnetic properties of a perovskite-type bismuth iron oxyfluoride thin film
PS-05	Mizuho Sano (Ochanomizu University) Topochemical fluorination of bismuth iron oxide epitaxial thin films
PS-06	Koomok Lee (Tokyo Institute of Technology) Emergence of weak ferromagnetism in High Spin Co ³⁺ substituted BiFeO ₃
PS-07	Ryota Nakano (University of Tokyo) Anisotropic electronic properties of helical Weyl magnet GdAlSi
PS-08	Kentaro Shoriki (University of Tokyo) Large magneto-optical responses of polar ferromagnetic Weyl semimetal PrAlGe
PS-09	Takahiro Aihara (University of Tokyo) Terahertz bulk photovoltaic effect induced by electromagnon excitations in multiferroics YMn ₂ O ₅
PS-10	Chinmay Chandan Parhi (Vellore Institute of Technology) Development of modified novel magneto-electric composite for high-frequency applications
PS-11	Ryota Ono (National Institute for Materials Science) Spin-spiral order and magnetic kink interactions in multiferroic Ni ₂ InSbO ₆
PS-12	Yoshihiro D. Kato (University of Tokyo) Observation of topological magneto-optical Kerr effect from skyrmion lattice in Gd ₂ PdSi ₃
PS-13	Tomoki Yoshioka (University of Tokyo) Observation of antiferromagnetic domains in TbB ₄ using circularly polarized soft x-ray resonant diffraction
PS-14	Chen Qian (University of Tokyo) Multistage Magnetoelectric Effects in Fe ₂ Mo ₃ O ₈
PS-15	Masato Moromizato (University of Tokyo) Magnetic phase transition and directional dichroism in the quasi one-dimensional antiferromagnet BaCu ₂ Si ₂ O ₇

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PS-16	Nanse Esaki (University of Tokyo) Electric field controllable thermal Hall effect of triplons in quantum dimer magnets $X\text{CuCl}_3$ ($X = \text{Ti}, \text{K}$)
PS-17	Takayuki Nagai (University of Tokyo) Chemical aspect of displacive-type ferroaxial materials: NASICON systems as an example
PS-18	Kei Shigematsu (Tokyo Institute of Technology) Magnetic Domain Change Induced by In-Plane Electric Polarization Switching in $\text{Bi}(\text{Fe}, \text{Co})\text{O}_3$ Thin Film
PS-19	Minho Kang (Korea Advanced Institute of Science and Technology) Structural and Electrical Properties of Hydrogen Annealed WO_3 Thin Films
PS-20	Satoshi Omura (University of Tokyo) Modulation of spin-orbital interaction by chiral phonons
PS-21	Sakyo Hirose (Murata Manufacturing Co., Ltd.) Nonreciprocal Directional Response to the Millimeter-wave in Multiferroic $\text{BaSrCo}_2\text{Fe}_{11}\text{AlO}_{22}$ Hexaferrite
PS-22	Yuta Kimoto (Tohoku University) Electric current induced resistivity anomaly in a helimagnet: indication of sliding motion
PS-23	Yoichi Kajita (University of Tokyo) Ferroaxial transition in the glaserite compound $\text{Na}_2\text{BaCo}(\text{PO}_4)_2$
PS-24	Shigetada Yamagishi (University of Tokyo) Ferroaxial Transitions in Glaserite-type Compounds: Database Screening, Phonon Calculations, and Experimental Verification
PS-25	Keigo Moriishi (University of Tokyo) Observation of magnetization-induced second harmonic generation in polar ferromagnetic Weyl semimetal PrAlGe
PS-26	Koki Shinada (Kyoto University) Unique properties of the optical activity in superconductors
PS-27	Takuma Itoh (National Institute for Materials Science) Electric-field-driven reversal of ferromagnetism in (110)-oriented single phase multiferroic Co-substituted BiFeO_3 thin films
PS-28	Ryotaro Sano (Kyoto University) Surface acoustic waves-driven magnon spin Hall effect in atomically thin van der Waals antiferromagnets
PS-29	Abinash Tripathy (UGC-DAE Consortium for Scientific Research) Symmetry lowering at the onset of magnetic transition in $\text{Ho}_{0.5}\text{Nd}_{0.5}\text{Fe}_3(\text{BO}_3)_4$
PS-30	Masaki Yamamoto (University of Tokyo) Study on nonlinear lattice vibrations excited with a THz electric field in a ferroaxial material PbWO_4

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| PS-31 | Margherita Parodi (Italian Institute of Technology)
Modelling thermal transport in spiral magnets |
| PS-32 | Shimon Tajima (Tohoku University)
A high-temperature multiferroic $Tb_2(MoO_4)_3$ |
| PS-33 | Ravi Kaushik (Italian Institute of Technology / University of Genova)
Towards temperature dependent exchange interactions in CsO_2 from first principles |
| PS-34 | Hyunju Hwang (Seoul National University)
Observation of magnetoelectric coupling in thin films of U-type hexaferrites |
| PS-35 | Kwang-Tak Kim (Seoul National University)
Observation of magnetic field-induced ferroelectricity in $CaFe_3O(PO_4)_3$ |