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)
	F3-01	Aligned polar boundaries embedded in nonpolar domains in ferroelectric Ho(Mn, Ti)O $_{3+\delta}$
	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)
	1 0-07	Anisotropic electronic properties of helical Weyl magnet GdAlSi
	PS-08	Kentaro Shoriki (University of Tokyo)
	F3-U8	Large magneto-optical responses of polar ferromagnetic Weyl semimetal PrAIGe
	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 Electric field controllable thermal Hall effect of triplons in quantum dimer magnets XCuCl ₃ (X = Ti, K) Taksyuki Nagai (University of Tokyo) Chemical aspect of displacive-type ferroaxial materials: NASICON systems as an example Kei Shigematsu (Tokyo Institute of Technology) Magnetic Domain Change Induced by In-Plane Electric Polarization Switching in Bi(Fe, Co)O ₃ Thin Film Minho Kang (Korea Advanced Institute of Science and Technology) Structural and Electrical Properties of Hydrogen Annealed WO ₃ Thin Films Satoshi Omura (University of Tokyo) Modulation of spin-orbital interaction by chiral phonons Sakyo Hirose (Murata Manufacturing Co., Ltd.) Nonreciprocal Directional Response to the Millimeter-wave in Multiferroic BaSrCo ₂ Fe ₁₁ AlO ₂₂ Hexaferrite Yuta Kimoto (Tohoku University) Electric current induced resistivity anomaly in a helimagnet: indication of sliding motion Yolchi Kajita (University of Tokyo) Ferroaxial transition in the glaserite compound Na ₂ BaCo(PO ₄) ₂ Shigetada Yamagishi (University of Tokyo) Ferroaxial transitions in Glaserite-type Compounds: Database Screening, Phonon Calculations, and Experimental Verification Kidgo Morilshi (University of Tokyo) Observation of magnetization-induced second harmonic generation in polar ferromagnetic Weyl semimetal PrAIGe Koki Shinada (Kyoto University) Unique properties of the optical activity in superconductors Takuma Itoh (National Institute for Materials Science) Electric-field-driven reversal of ferromagnetism in (110)-oriented single phase multiferroic Co-substituted BiFeO ₂ thin films Ryotaro Sano (Kyoto University) Surface acoustic waves-driven magnon spin Hall effect in atomically thin van der Waals antiferromagnets Abinash Tripathy (UGC-DAE Consortium for Scientific Research) Symmetry lowering at the onset of magnetic transition in Ho _{2x} Nd _{12,5} Fe ₃ (BO ₂) ₂) ₂ Masaki Yamamoto (University of Tokyo) Study on nonlinear lattice vibrations excited with a THz electric field in a ferroaxial material PbWO ₄		Poster No.	
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PS-27 Electric-field-driven reversal of ferromagnetism in (110)-oriented single phase multiferroic Co-substituted BiFeO ₃ thin films Ryotaro Sano (Kyoto University) Surface acoustic waves-driven magnon spin Hall effect in atomically thin van der Waals antiferromagnets Abinash Tripathy (UGC-DAE Consortium for Scientific Research) Symmetry lowering at the onset of magnetic transition in Ho _{0.5} Nd _{0.5} Fe ₃ (BO ₃) ₄ Masaki Yamamoto (University of Tokyo)			Unique properties of the optical activity in superconductors
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PS-28 Surface acoustic waves-driven magnon spin Hall effect in atomically thin van der Waals antiferromagnets Abinash Tripathy (UGC-DAE Consortium for Scientific Research) Symmetry lowering at the onset of magnetic transition in Ho _{0.5} Nd _{0.5} Fe ₃ (BO ₃) ₄ Masaki Yamamoto (University of Tokyo) PS-30			
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PS-29 Symmetry lowering at the onset of magnetic transition in Ho _{0.5} Nd _{0.5} Fe ₃ (BO ₃) ₄ Masaki Yamamoto (University of Tokyo) PS-30			Surface acoustic waves-driven magnon spin Hall effect in atomically thin van der Waals antiferromagnets
Symmetry lowering at the onset of magnetic transition in Ho _{0.5} Nd _{0.5} Fe ₃ (BO ₃) ₄ Masaki Yamamoto (University of Tokyo) PS-30		PS-29	Abinash Tripathy (UGC-DAE Consortium for Scientific Research)
PS-30			Symmetry lowering at the onset of magnetic transition in Ho _{0.5} Nd _{0.5} Fe ₃ (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

The 14th APCTP Workshop on Multiferroics

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

Poster No	Poster No.		
PS-31	Margherita Parodi (Italian Institute of Technology)		
1 0-01	Modelling thermal transport in spiral magnets		
PS-32	Shimon Tajima (Tohoku University)		
P3-32	A high-temperature multiferroic Tb ₂ (MoO ₄) ₃		
PS-33	Ravi Kaushik (Italian Institute of Technology / University of Genova)		
P3-33	Towards temperature dependent exchange interactions in CsO ₂ from first principles		
PS-34	Hyunju Hwang (Seoul National University)		
P3-34	Observation of magnetoelectric coupling in thin films of U-type hexaferrites		
PS-35	Kwang-Tak Kim (Seoul National University)		
F5-35	Observation of magnetic field-induced ferroelectricity in CaFe ₃ O(PO ₄) ₃		