

Grant -in-Aid for Transformative Research Areas (A) 「Unveiling, Design, and Development of Asymmetric Quantum Matters」

FY2024 Area General Meeting/Public Research Kickoff Meeting (Higashi Hiroshima Arts & Culture Hall Kurara)

				Planned Research : 60 min Publicly-Offered Research : 20 min (presentation 15 min+question 5 min)
	5/29 (Wed.)			
Chairman	13:00 — 13:15	ONIMARU, Takahiro	Opening	
K. Izawa	13:15 — 13:25	YANAGISAWA, Tatsuya	Overview of Planned Research A02	
	13:25 — 13:50	YANAGISAWA, Tatsuya	Ultrasonic measurements on asymmetric quantum matters	
	13:50 — 14:15	KITTAKA Shunichiro	Field-angle-resolved thermodynamic measurements on asymmetric quantum matters	
	14:15 — 14:35	(Coffee Break)		
M. Kimata	14:35 — 14:55	MATSUBARA, Masakazu	Development of detection and visualization techniques for asymmetric quanta and application to artificial asymmetronics	
	14:55 — 15:15	ONOSE, Yoshinori	Exploration of novel thermal transport and elastic response utilizing phonon angular momentum	
	15:15 — 15:35	ISHIHARA, Kota	Study on giant superconducting cross-responses in bulk superconductors	
	15:35 — 15:55	IKEDA, Atsutoshi	Vector pressure: Development of uniaxial-pressure device with rotation mechanism	
	15:55 — 16:15	(Coffee Break)		
A. Sekiyama	16:15 — 16:25	TABATA, Chihiro	Overview of Planned Research A01	
	16:25 — 16:50	IWASA, Kazuaki	Crystal and magnetic structure symmetries with cluster multipoles of $\text{Nd}_3\text{Tr}_4\text{Sn}_{13}$ (Tr = Co, Rh, Ir)	
	16:50 — 17:15	MATSUMURA, Takeshi NAKAO, Hironori	Toward observation of odd-parity multipoles by resonant X-ray scattering	
	17:15 — 17:35	KITOU, Shunsuke	Electron orbital visualized with synchrotron X-rays	
	17:35 — 17:55	KIMURA, Akio	k-space spin textures of asymmetric antiferromagnets	
	5/30 (Thu.)			
Y. Haga	9:20 — 9:50	YOSHIDA, Hiroyuki	Overview of Planned Research C02	
	9:50 — 10:05	KOTEGAWA, Hisashi	Development of antiferromagnetic materials showing anomalous Hall effects	
	10:05 — 10:20	ISHIWATA, Shintaro	Exploration of perovskite-type asymmetric quantum materials exhibiting a variety of ordered phases	
	10:20 — 10:35	(Coffee Break)		
K. Kobayashi	10:35 — 10:55	ISHIKAWA, Hajime	Exploring hybrid quantum materials with chiral honeycomb structure	
	10:55 — 11:15	MATSUNO, Jobu	Magnetic interaction derived from atomically controlled spatial asymmetry	
	11:15 — 11:35	YONEZAWA, Shingo	Multipolar asymmetry responses under electric current studied by optics-based techniques	
	11:35 — 12:50	Photo (Lunch)		

T. Koretsune	12:50 — 13:00	OTSUKI, Junya	Overview of Planned Research B01
	13:00 — 13:25	HAYAMI, Satoru	Magnetic toroidal multipoles hidden in antiferromagnets
	13:25 — 13:50	HATTORI, Kazumasa	Nonmagnetic moire, chiral orders, and current-induced magnetization
	13:50 — 14:05	(Coffee Break)	
Y. Nomura	14:05 — 14:25	WATANABE, Shinji	Crystalline electric field and multipole in quasicrystal and approximant
	14:25 — 14:45	DAIDO, Akito	Nonreciprocal superconducting phenomena induced by microscopic asymmetry
	14:45 — 15:05	JESCHKE, Harald	Cross-coupled ferroic orders in chiral magnets
	15:15 — 17:20	Poster session (First half 15:15-16:15, latter half 16:20-17:20)	
	18:00 — 20:00	Banquet (Bistro PaPa, Higashihiroshima city office 10F)	
5/31 (Fri.)			
T. Onimaru	9:20 — 9:40	OHARA, Shigeo	Overview of Planned Research C01
	9:40 — 10:00	MATSUDA, Tatsuma	Development and physical property research of asymmetric quantum materials in Sm- and Eu-based compounds
	10:00 — 10:20	SHIMIZU, Yusei	Study on asymmetric quantum material URhSn with ZrNiAl-type structure
	10:20 — 10:40	(Coffee Break)	
K. Matsuhira	10:40 — 11:00	UEDA, Kentaro	Topological electronic properties in noncentrosymmetric half-Heusler rare-earth compounds
	11:00 — 11:20	AOKI, Dai	Novel uranium compounds with broken local inversion symmetry and superconductivity
	11:20 — 11:40	KANAZAWA, Naoya	Maximization of nonreciprocal conduction through control of surface asymmetric electronic states
	11:40 — 13:10	(Lunch Break)	
H. Amitsuka	13:10 — 13:30	UCHIDA, Masaki	Superconductivity induced by altermagnetic fluctuation
	13:30 — 13:50	YAMASAKI, Yuichi	Extended magnetic multipole detectable by soft x-ray absorption and scattering
	13:50 — 14:10	MIZUKAMI, Yuta	Quest for asymmetric heat transport and its cross-correlation
	14:10 — 14:30	SHIMURA, Yasuyuki	Creation of strongly correlated asymmetric compounds by uniaxial annealing
	14:30 — 15:00	Closing	
	16:30 — 18:30	Laboratory tour (Hiroshima University Higashi-Hiroshima campus)	