The 7th Symposium for the Core Research Clusters for Materials Science and Spintronics and the 6th Symposium on International Joint Graduate Program in Materials Science and Spintronics

Timetable 1 (November 28 - 29)

	November 28(Tue) November 29(Wed)				
		Loca	ation		
Sakura Hall	AIMR Main BId 2F Seminar room	Nano Spin 4F Conference room	Sakura Hall	AIMR Main Bld 2F Seminar room	Nano Spin 4F Conference room
9:40- Opening 9:45- Plenary1 (Reiko Oda)			9:00- CRCMS1 Advances in soft materials (CM1-1~3)	10:00- GP-MS1	
10:30- Plenary 2 (Henning Sirringhaus) 11:30- Photo	Break			Student Session 1 Oxide electronics (GM1-1~3)	
	12:00- Lunch Time			12:00- Lunch Time	
13:30- Poster Session1 14:15- Plenary3 (Di-jing Huang)				13:30- GP-MS2 Student Session 2 Porous materials (GM2-1~3)	13:30- CRCMS2 Quantum materials and magnonics (CM2-1~3)
15:15- CRC Award talk	Break			Break	Break 15:15- GP-Spin1
16:15- Poster Session2	Break			Student Session 3 Energy conversion & storage (GM3-1~3)	Spin-functional materials (GS1-1~4)
18:00- Sym	nposium Reception (Wes	stin Sendai)			

The 7th Symposium for the Core Research Clusters for Materials Science and Spintronics and the 6th Symposium on International Joint Graduate Program in Materials Science and Spintronics

Timetable 2 (November 30 - December 1)

	November 30(Thu)			December 1(Fri)	
		Loca	ation		
Sakura Hall	AIMR Main Bld 2F Seminar room	Nano Spin 4F Conference room	Sakura Hall	AIMR Main Bld 2F Seminar room	Nano Spin 4F Conference room
9:00- CRCMS3 Multi-material design & control (CM3-1~5)	10:00- GP-MS4 Student Session 4 Thermoelectric materials (GM4-1~3)	9:00- GP-Spin2 Spintronics devices (GS2-1~4)	9:00- CRCMS4 Advanced carbon- based materials for batteries and sensors (CM4-1~3)	10:00- GP-MS6 Student Session 6 Interface science and engineering of joining (GM6-1~3)	9:00- CRCS4 Invited talk (CS4-1~3) Break 10:50- CRCS5 Invited talk (CS5-1~2)
		Break			
12:00- Photo	12:30- Lunch Time	13:25- Opening(Spin)		12:00- Lunch Time	
	15:30- GP-MS5 Student Session 5 Theoretical condensed matter physics (GM5-1~4)	13:30- Plenary4 (Satoru Nakatsuji) 14:15- CRCS1 Invited talk (CS1-1~2) Break 15:35- CRCS2 Invited talk (CS2-1~3) Break 17:20- CRCS3 Invited talk (CS3-1~2) 19:00- Banquet (Spin only)	16:30- Poster Award 17:00- Closing		Invited talk (CS6-1~2) Break 14:50- CRCS7 Invited talk (CS7-1~2) 15:50- Closing (Spin)

Program

Plenary sessions

November 28 (Tuesday) Location: Sakura Hall (E01)

Plenary 1		Chair: Shin-ichi Orimo
9:45-10:30	Reiko Oda (University of Bordeaux / CNRS / Tohoku University)	24
PL1	Transferring chiral information between objects with different din crystalline order	nensions without
Plenary 2		Chair: Takahiko Sasaki
10:30-11:15	Henning Sirringhaus (University of Cambridge)	26
PL2	Transient localization and spin relaxation physics of high mobility semiconductors	organic
Plenary 3		Chair: Hiroshi Kumigashira
14:15-15:00	Di-Jing Huang (National Synchrotron Radiation Research Center / National Tsing Hua University)	28
PL3	Spin and charge excitations of unconventional superconductors presolution RIXS	obed by high-
	er 30 (Thursday) aboratory for Nanoelectronics and Spintronics 4F conference	e room (E04)
Plenary 4		Chair: Shunsuke Fukami
13:30-14:15	Satoru Nakatsuji (The University of Tokyo)	30
PL4	Topological magnetic materials for innovative quantum electronic	s

Sessions by the Core Research Cluster for Materials Science

Novembe	er 29 (Wednesday)	
CM1: Advar	nces in soft materials	Chair: Eriko Nango
Location: S	akura Hall (E01)	Kazuo Takimiya
9:00-9:30	Yizhou Zhang (Tohoku University)	34
CM1-1	Tuning nanostructured membranes via lyotropic assembly	
9:30-10:00	Thomas P. Russell (University of Massachusetts Amherst / Tohoku University	ty) 35
CM1-2	Self-propulsion by directed explosive emulsification	
10:00-10:40	Shun Watanabe (The University of Tokyo)	36
CM1-3	Charge, spin, and phonon in soft organic semiconductors	
	er 29 (Wednesday) tum materials and magnonics	Chair: Takafumi Sato
Location: La conference	aboratory for Nanoelectronics and Spintronics 4F room (E04)	Shigemi Mizukami
13:30-14:00	Yong P Chen (Purdue University / Aarhus University / Tohoku University)	37
CM2-1	Spintronics meets quantum materials	
14:00-14:30	Hidekazu Kurebayashi (University College London)	38
CM2-2	Recent studies of photon-magnon coupling at UCL: nonlinear magnon polybrid between van der Waals magnets and superconducting resonators	olaritons and a
14:30-15:00	Elyasi Mehrdad (Tohoku University)	39
CM2-3	Many-body magnonic open systems for quantum applications	

November 30 (Thursday)

CM3: Multi-material design & control

Location: Sa	akura Hall (E01)	Yutaka S. Sato
9:00-9:30	Eric Jianfeng Cheng (Tohoku University)	40
CM3-1	Resolving interfacial contact challenge between garnet electrolytes a in solid-state Li metal batteries	nd ceramic cathodes
9:30-10:00	Hiroki Kurita (Tohoku University)	41
CM3-2	Energy-harvesting and mass sensor performances of magnetostrictive based clad plates	ve Fe ₃₀ Co ₇₀ alloy-
10:00-10:30	Uceu Fuad Hasan Suhuddin (Helmholtz Zentrum Hereon)	42
CM3-3	Welding and joining of dissimilar materials by solid-state joining promechanism and joint performance	ocesses: Bonding
10:45-11:15	Honggang Dong (Dalian University of Technology)	43
CM3-4	Vacuum diffusion bonding of TC4 titanium alloy to T2 copper	
11:15-11:45	Alexander L. Shluger (University College London / Tohoku University) 44
CM3-5	A controversial nature of oxygen vacancies in amorphous oxides	
Decembe	r 1 (Friday)	
CM4: Advar	nced carbon-based materials for batteries and sensors	Chair: Hirotomo Nishihara
Location: Sa	akura Hall (E01)	Keiichi Tomishige
9:00-9:30	Olivier Fontaine (Vidyasirimedhi Institute of Science and Technology / Institut Universitaire de France)	45
CM4-1	Tackling non-ideal electrochemical behavior for optimal energy stor	age
9:30-10:00	Liubing Dong (Jinan University)	46
CM4-2	Key materials for carbon-based zinc-ion hybrid supercapacitors	
10:00-10:30	Chi-Hsien Huang (Ming Chi University of Technology)	47
CM4-3	Atomic layered composites of GO/G for biosensor applications	

Chair: Hidemi Kato

Sessions by the International Joint Graduate Program in **Materials Science**

Location: WPI-AIMR Main Building 2F seminar room (B01)

Novembe	er 29 (Wednesday)	
GM1: Stude	nt Session 1 (Oxide electronics)	Chair: Jiyang Huang
10:00-10:45	Kenji Nomura (University of California, San Diego)	50
GM1-1	Recent advancement of oxide TFT technology	
10:45-11:30	Seung Sae Hong (University of California, Davis)	51
GM1-2	Freestanding complex oxide membranes and heterostructures	
11:30-12:00	Jiyang Huang (Tohoku University)	52
GM1-3	Growth of transitional metal oxide thin films on glass and as freestandin flexible and transferable oxide thin films	g layer toward
Novembe	er 29 (Wednesday)	
GM2: Stude	nt Session 2 (Porous materials)	Chair: Bowen Tang
13:30-14:00	Shan Shi (Hamburg University of Technology)	53
GM2-1	Nanoporous metals by dealloying - more strength with less material?	
14:00-14:30	Jiuhui Han (Tianjin University of Technology)	54
GM2-2	Evolution of porosity and phases during vapor phase dealloying	
14:30-15:00	Bowen Tang (Tohoku University)	5.5
GM2-3	Effect of grain boundaries on liquid metal dealloying	
Novembe	er 29 (Wednesday)	
GM3: Stude	nt Session 3 (Energy conversion & storage)	Chair: Xiatong Ye
16:00-16:45	Yiqiang Zhang (Zhengzhou University)	56
GM3-1	Printed high-performance perovskite solar cells: Ink engineering, interfacengineering, and charge-carrier kinetics regulation	acial
16:45-17:30	Gennady Cherkashinin (Technische Universitat Darmstadt)	57
GM3-2	Understanding interfacial electronic properties as key for efficient mater storage and energy conversion	rials for energy
17:30-18:00	Xiatong Ye (Tohoku University)	58
GM3-3	Clarification of side reactions on α-MnO ₂ cathode in Mg[Al(hfip) ₄] ₂ /ethe	r electrolytes

November 30 (Thursday)

GM4: Stude	nt Session 4 (Thermoelectric materials)	Chair: Yuyang Zhang
10:00-10:40	Teruyuki Ikeda (Ibaraki University)	59
GM4-1	High-throughput exploration of multicomponent material systems us graded materials	
10:40-11:20	G. Jeffrey Snyder (Northwestern University)	60
GM4-2	Strategies for engineering complex thermoelectric materials	
11:20-12:00	Yuyang Zhang (Tohoku University)	61
GM4-3	Crystal structures and thermoelectric properties of low-temperature the $\text{Cu}_{2\text{-}\delta}\text{Te}$ compounds	ordered phases of
Novembe	er 30 (Thursday)	
GM5: Stude	nt Session 5 (Theoretical condensed matter physics)	Chair: Shota Namerikawa
15:30-16:05	Cheol Hwan Park (Seoul National University)	62
GM5-1	Magnetic anisotropy and magnetic ordering of transition-metal phos	phorus trisulfides
16:05-16:40	Jan M Tomczak (King's College London)	63
GM5-2	Transport properties of correlated narrow-gap semiconductors	
16:40-17:15	Junfeng Qiao (Ecole Polytechnique Federale de Lausanne (EPFL))	64
GM5-3	Automated high-throughput Wannierization	
17:15-17:30	Shota Namerikawa (Tohoku University)	65
GM5-4	Ab initio electrical conductivity calculations of Ag-Pd alloy based on method	Wannier-CPA
Decembe	er 1 (Friday)	
GM6: Stude	nt Session 6	Chair: Kiyoaki T Suzuki
(Interface s	cience and engineering of joining)	
10:00-10:40	Ke Chen (Shanghai Jiao Tong University)	66
GM6-1	Fabricating superamphiphilic surface to enhance the interfacial bond TC4 and non-polar UHMWPE	ling strength of
10:40-11:20	Sylvain Dancette (National Institutes of Science and Technology, Lyon)	67
GM6-2	Ductile fracture in metals revisited by 3D imaging and finite element	analysis
11:20-12:00	Kiyoaki T Suzuki (Tohoku University)	68
GM6-3	Interfacial microstructure of dissimilar weld of aluminum to steel con	ntaining alloying

elements and its effect on mechanical properties

Sessions by the Core Research Cluster for Spintronics (20th RIEC International Workshop on Spintronics)

Location: Laboratory for Nanoelectronics and Spintronics 4F conference room (E04)

November 30 (Thursday)

CS₁

14:15-14:45	Hang Xie (National University of Singapore)	70
CS1-1	Electrical control of magnetic state in non-collinear antiferromagnet Mn ₃ Sn	
14:45-15:15	Gyung-Min Choi (Sungkyunkwan University)	71
CS1-2	Optical detection of orbital Hall effect in light metals of Ti, Mn, and Cu	
Novembe CS2	er 30 (Thursday)	
15:35-16:05	Shan Wang (Stanford University)	72
CS2-1	Unconventional spin-orbit torques in sputtered materials for high density high speed MRAM	
16:05-16:35	Nihal Singh (University of California, Santa Barbara)	73
CS2-2	Heterogeneous probabilistic computers for Boltzmann inference and learning	
16:35-17:05	Advait Madhavan (National Institute of Standards and Technology)	74
CS2-3	CMOS-MTJ circuits for alternative computing	
Novembe CS3	er 30 (Thursday)	
17:20-17:50	Kohei Fujiwara (Tohoku University)	75
CS3-1	Topological phenomena in magnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ thin films	
17:50-18:20	Ping Tang (Tohoku University)	1
CS3-2	Spintropic analog in ferroelectric materials	

December 1 (Friday)

CS4

9:00-9:30	Johan Akerman (University of Gothenburg / Tohoku University)	76
CS4-1	10 nm spin Hall nano-oscillators and mutual synchronization of thousands of oscillators	
9:30-10:00	Tomoyuki Yokouchi (The University of Tokyo)	77
CS4-2	Pattern recognition with reservoir computing using magnetic-field induced dynamics of skyrmions	
10:00-10:30	Zhaochu Luo (Peking University)	78
CS4-3	Electrically programmable nanomagnetic Ising network	
Decembe CS5	er 1 (Friday)	
10:50-11:20	Shutaro Karube (Kyoto University)	79
CS5-1	Introduction to altermagnetism and its application	
11:20-11:50	Maciej Sawicki (Polish Academy of Sciences)	80
CS5-2	Experimental evidences for relativistic effects in altermagnetic hexagonal MnTe	
Decembe cs6	er 1 (Friday)	
13:30-14:00	Kazuya Ando (Keio University)	81
CS6-1	Spin and orbital Hall torques	
14:00-14:30	Mathias Klaeui (Johannes Gutenberg University Mainz)	82
CS6-2	Spin-orbitronics and orbitronics for stochastic computing	
Decembe CS7	er 1 (Friday)	
14:50-15:20	Philippe Talatchian (Spintec)	83
CS7-1	Harnessing stochastic properties of spintronic nanodevices for unconventional computing	
15:20-15:50	Shun Kanai (Tohoku University)	-
CS7-2	Investigation of probabilistic and quantum spin dynamics for unconventional electronics	

Sessions by the Graduate Program in Spintronics

Location: Laboratory for Nanoelectronics and Spintronics 4F conference room (E04)

November 29	(Wednesday)
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GS1: Spin-functional materials

15:15-16:00	Masayuki Suda (Kyoto University)	Chair: Takeshi Odagawa	86
GS1-1	Chiral van der Waals superlattices for novel spintronics withou	out magnet	
16:00-16:30	Safeer Chenattukuzhiyil (University of Oxford)	Chair: Takeshi Odagawa	87
GS1-2	Spin-charge interconversion in van der Waals heterostructure	es	
16:50-17:20	Masaki Nakano (The University of Tokyo)	Chair: Tappei Kawakami	88
GS1-3	Emergent 2D magnetism explored by MBE		
17:20-17:50	Tomoyuki Yokouchi (The University of Tokyo)	Chair: Tappei Kawakami	89
GS1-4	Giant magnetochiral anisotropy in Weyl-semimetal WTe_2 ind	uced by diverging Berry	
	curvature		

November 30 (Thursday)

GS2: Spintronics devices

9:00-9:45	Johan Åkerman (University of Gothenburg / Tohoku University	y) Chair: Shunya Chiba	90
GS2-1	Spin torque and spin Hall nano-oscillators		
9:45-10:30	Philippe Talatchian (Spintec)	Chair: Shunya Chiba	91
GS2-2	Magnetic tunnel junctions: from fundamentals to application	S	
10:50-11:20	Zhaochu Luo (Peking University)	Chair: Tomohiro Uchimura	92
GS2-3	Electrically programmable nanomagnetic Ising network		
11:20-11:50	Tomosato Hioki (The University of Tokyo)	Chair: Tomohiro Uchimura	93
GS2-4	Magnon parametron: a magnonic device with unconventional	l fluctuation	

Poster session (Material)

November 28, 13:30-14:15: Poster Session 1 (for odd number posters)

November 28, 16:15-17:00: Poster Session 2 (for even number posters)

PM1	Hongyun Zhang (Tsinghua University / Tohoku University / Frontier Science Center for Quantum Information)	96
	Field Tunable flat band in Twisted Monolayer-Bilayer Graphene	
PM2	Ryuhei Sato (Tohoku University)	97
	Persistent homology Analysis of concerted migration of Ag ions in AgI superionic conductor	
PM3	Jiayan Liu (Tohoku University)	98
	Three-dimensional Nanoporous MoS2 Powder Fabricated by Liquid Metal Dealloying for Lithium-ion Battery Anode	
PM4	Di Zhang (Tohoku University)	99
	Developing Effective Electrocatalysts for Renewable Energy and Environmental Applications	
PM5	Xue Jia (Tohoku University)	100
	Data-Science and AI for Energy Materials Exploration	
PM6	Bowen Tang (Tohoku University)	101
	Effect of Grain Boundaries on Liquid Metal Dealloying	
PM7	Yui Muto (Tohoku University)	102
	Improving the generalization performance of the machine learning model estimating charge states in quantum dots	
PM8	Huyen Thi Ngoc Vu (Tohoku University)	103
	A theoretical study of piezomagnetic effect in Mn3AN and Mn3X	
PM9	Weiqi Liu (Tohoku University)	104
	Development of Aluminum-Foil Anodes for High Energy-Density and Low-Cost Rechargeable Lithium Batteries	
PM10	Kazuma Matsumura (Tohoku University)	105
	Transport Property of a Few Quantum Dots Formed in Short Channel GaN FETs	
PM11	Tomomi Suwa (Tohoku University)	106
	Similarity Assessment Between 3D Microstructure and Magnetic Domain of a Tb- diffused Sintered Nd-Fe-B Magnet	
PM12	Haruki Sanematsu (RIKEN Center for Emergent Matter Science (CEMS))	107
	Multiple Naphthothiophenediimides Accumulated Molecules	
PM13	Kohsuke Kawabata (Tohoku University / RIKEN CEMS)	108
	NIR-absorbing Organic Semiconductors Based on a Naphthodithiophenedione; Impact of the Position of Solubilizing Substituents on Their Solid-state Structures and Properties	

PM14	Kirill Bulgarevich (CEMS, RIKEN)	109
	Crystal Growth by "Indirect Sublimation" and Formation of Multi-Single-Crystal Films for Practical Applications of Single-Crystal Organic Semiconductors	
PM15	Barun Dhara (CEMS, RIKEN)	110
	Modulation of crystal and electronic structure of MT-Pyrene-based conductive salts by varying counter anions	
PM16	Hiromu Matsuura (Tohoku University)	111
	Effect of off-stoichiometry on elastic moduli of B1-type MXx ceramics	
PM17	Michitaro Saeki (Tohoku University)	112
	Synthesis and Properties of A Small Bandgap Donor-acceptor π -Conjugated Polymer Incorporating Naphthodifran-2,7-dione	
PM18	Chihana Kudo (Tohoku University)	113
	Segmentation Analysis for Microstructural Characterization of MoSiBTiC Alloy	
PM19	Xiaotong Ma (Tohoku University)	114
	Evaluation of structural characteristics and magnetic properties of ultra-thin high- purity Fe ribbons with and without annealing	
PM20	Likun Chen (Tohoku University)	115
	Effects of Doping Element on Magnetostrictive Properties and Microstructure of Fe-Ga Alloys	
PM21	Terigele (Tohoku University)	116
	Synthesis of titanium based fine powder by using shuttle of the disproportionation and proportionation reactions of titanium ions	
PM22	Qiuyu CHENG (Tohoku University)	117
	Solution process assisted synthesis of YMnO3-based pigment	
PM23	Chen Qu (Tohoku University)	118
	MOF-818 Catalytic Pyrolysis of Softwood for Chemical Production with Assistance of Microwave	
PM24	Daisuke Shiga (Tohoku University / Photon Factory, IMSS, KEK)	119
	Electronic Structure of Hole-Doped CrxV1-xO2 Epitaxial Films Studied by in situ Photoemission Spectroscopy	
PM25	Chika Takai-Yamashita (Tohoku University / Gifu University)	120
	Sex Determination of Japanese Rhinoceros Beetle Larvae Based on their Dropping Shape using Mahalanobis-Taguchi System (MTS)	
PM26	Linda Zhang (Tohoku University)	121
	Tailoring Nanoporous Materials for Hydrogen Isotope Separation	
PM27	Lewis John Conway (University of Cambridge / Tohoku University)	122
	Accelerating the Prediction of High-Pressure Hydrides Using Data Derived Potentials	
PM28	Hiroshi Kakinuma (Tohoku University)	123
	Filming microscopic hydrogen diffusion behaviors in metals using an ultrasensitive hydrogenochromic sensor	

PM29	Yuuki Masutake (Tohoku University)	124
	Electronic Structure of Supercell Compounds of Layered Bi-Rh-O Films	
PM30	Fuki Sato (Tohoku University)	125
	Metal-insulator transition in Ru(Br1-xIx)3 with a honeycomb structure	
PM31	Hikaru Taneoka (Tohoku University)	126
	Magnetotransport Properties of Itinerant Antiferromagnet LaMnSi under High Pressure	
PM32	Lei Miao (Tohoku University)	127
1 1/132	VO2 gas sensor with absolute selectivity for ammonia gas	
PM33	Yusei Morita (Tohoku University)	128
- 1/100	Electronic structure study of Laves phase superconductor CsBi2 using high-resolution ARPES	
PM34	Xichan Gao (Tohoku University)	129
	Identification and Quantitative Analysis of Structural Information from X-CT Images Based on Topological Data Analysis	
PM35	Yibei Xue (Tohoku University)	130
	Tunable Phase Transition Behavior and Excellent Thermochromic Performance of N-doped VO2	
PM36	Katarzyna Gas (Tohoku University)	131
	Studies of magnetic properties of epitaxial thin films of noncollinear Weyl antiferromagnet Mn3Sn	
PM37	Koki Kannari (Tohoku University)	132
	Investigation of Cathode Reactions in Lithium-Oxygen Battery and Sodium-Sulfur Battery by Vibrational Spectroscopy	
PM38	Shuto Suzuki (Tohoku University)	133
	Electron-doped kagome superconductor Cs(V1-xCrx)3Sb5: micro-ARPES study	
PM39	William Naughton Faugno (Tohoku University)	134
	Geometric Characterization of Many-Body Localization	
PM40	Saneyuki Ohno (Tohoku University)	135
	Critical Roles of Functional Defects to Improve Ionic Conductivity and Reproducibility: A Case Study of Na-ion Conducting Na3SbS4	
PM41	Kartik Sau (National Institute of Advanced Industrial Science and Technology / Tohoku University)	136
	Colossal Reversible Barocaloric Effects in LiCB11H12 Mediated by Lattice Vibrations and Ion Diffusion	
PM42	Kazutoshi Inoue (Tohoku University)	137
	Arrangement of 3D Structural Units for Tilt Grain Boundaries	
PM43	Qian Chen (Tohoku University)	138
	Impurities induced structural transitions in MgO grain boundaries	

PM44	Saijian Ajia (Tohoku University)	139
	Electromagnetic microwave absorption properties of Fe/Fe16N2 nanoparticles from iron oxide	
PM45	Ryotaro Hayasaka (Tohoku University)	140
	Electronic structure of SrNbO3/SrTiO3 interface studied by synchrotron-radiation photoemission spectroscopy	
PM46	Chung-Lun Yu (National Taipei University of Technology)	141
	Characterization of CuFeO2-ZnFe2O4 Powder Prepared by Glycine Nitrate Process and Applied on Hydrogen Generation from Steam Reforming of Methanol	

Poster session (Spintronics)

November 28, 13:30-14:15: Poster Session 1 (for odd number posters)
November 28, 16:15-17:00: Poster Session 2 (for even number posters)

PS1	Chaoliang Zhang (Tohoku University)	144
	Structural ordering dependence of spin-orbit torque in L12 Mn3Pt	
PS2	Motoya Shinozaki (Tohoku University)	145
	Wide dynamic range charge sensing utilizing fast feedback control of radio-frequency reflectometry	
PS3	Ramchandra Sahoo (Tohoku University)	146
	Thin-film epitaxy of ferromagnetic semiconductor EuO using pulsed-laser deposition equipped with the fourth harmonic wave of Nd:YAG laser	
PS4	Takuya Taniguchi (Tohoku University)	147
	Time-resolved Observation of Spin-orbit Torque Switching of Magnetization and Exchange Bias in Pt/Co/IrMn Multilayers	
PS5	Takemi Kato (Tohoku University)	148
	Quantum Well States in Alkali-Metal Thin Films Grown on Kagome Metals	
PS6	Satoshi Sasaki (Tohoku University)	149
	Synthesis and magnetic properties of heavy rare earth monoxides REO (RE = Tb, Dy, Er) with divalent rare earth ions	
PS7	Takumi Yamazaki (Tohoku University)	150
	Evaluation of Figure of Merit for the Transverse Thermoelectric Conversion in Fe/Pt Metallic Superlattices	
PS8	Shunki Nakamura (Tohoku University)	151
	Photocurrent Imaging of Single Nitrogen-Vacancy Center	
PS9	Takahiro Chiba (Tohoku University)	152
	Microwave Transmission Theory for On-Chip Ultrastrong-Coupled Magnon-Polariton in Dynamical Inductors	
PS10	Takahiro Tanaka (Tohoku University)	153
	Temperature Variation of Sign and Magnitude of Crystal-Orientation-Dependent Anisotropic Magnetoresistance of Co-Based Heusler Alloys	
PS11	Kouki Nukui (Tohoku University)	154
	Inverse Faraday effect in Co-Pt disordered alloy films	
PS12	Zhipeng Wang (Tohoku University)	155
	Observation of spin properties in single Kondo molecular magnet by superconductor-insulator-superconductor tunneling spectroscopy	
PS13	Osamu Kanehira (Tohoku University)	156
	Supercurrent Rectification in Superconductor/Altermagnet Josephson Junction	

PS14	Kazuaki Ishibashi (Tohoku University)	157
	Photon-to-electron spin conversion probed by transient terahertz emission in platinum thin films	
PS15	Ye Jiang (Tohoku University)	158
	Study on Damping Constant and Saturation Magnetostriction for 10-nm-thick Fe-Si Polycrystalline Films	
PS16	Varun Kumar Kushwaha (Tohoku University)	159
	Selective Magnetization Switching Conditions for Hard Magnetic FePt with Spin-Wave Dynamics	
PS17	Zaizhou Jin (Tohoku University)	160
	Ultrafast collapse of octupole order in antiferromagnetic Mn3Sn films	
PS18	Takafumi Nakano (Tohoku University)	161
	Ta-doped CoFeSiB soft magnetic layer for tunnel magnetoresistance sensor	
PS19	Jana Lustikova (Tohoku University)	162
	Spin pumping into high temperature superconductors	
PS20	Hiroshi Naganuma (Tohoku University)	163
	Wavy-Graphene on L10-FePd Epitaxial Films	
PS21	Toshiyuki Kodama (Tohoku University)	164
	Current-induced Nonlinear Spin Polarization in Ta/FeNi/Pt Spintronic Metamaterial	
PS22	Tatsuki Kato (Tohoku University)	165
	Controllable fabrication of graphene nanoribbon-based quantum dot devices	
PS23	Kairi Kaneta (Tohoku University)	166
	Resistively-detected electron spin resonance measurement of single-layer graphene	
PS24	Takeshi Odagawa (Tohoku University)	167
	Carrier Transfer in Monolayer WS2/III-V Semiconductor Heterostructures	
PS25	Hiroki Koizumi (Tohoku University / University of Tsukuba)	168
	Cluster magnetic toroidal quadrupole and anomalous Hall effect in NiCo2O4 thin film	
PS26	Ken Yaegashi (Tohoku University)	169
	High-resolution ARPES study of monoatomic bismuth and antimony thin films on SiC	
PS27	Tappei Kawakami (Tohoku University)	170
	Signature of higher-order Fermi-surface nesting in monolayer VS2	
PS28	Koki Yanagizawa (Tohoku University)	171
	Electronic structure of monolayer 1T-TiS2 film studied by high-resolution ARPES	
PS29	Asuka Honma (Tohoku University)	172
	Modulation of Dirac cones in Antiferromagnetic Topological Insulator NdBi Studied by Micro-ARPES	
PS30	Haruna Kaneko (Tohoku University)	173
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