

GP-Spin Student Organized Seminar 2020

February 20th - 21st, 2020 Advanced Institute for Materials Research, Katahira Campus, Tohoku University

Program

February 20th (Thu.) 2020

9:00 - 9:20	Registration (Seminar Room, AIMR 2F)
9:20 - 9:30	Opening Remarks

Spin Transport and Dynamics (Chair: Shogo Yamashita)

9:30 - 9:50	Hiroki Arisawa
	Spin pumping under magnetic field gradient
9:50 - 10:10	Hiroto Masuda
	Antiferromagnetically-coupled metallic superlattice with Ir-doped Cu
	interlayer generating spin Hall effect
10:10 - 10:30	Akihiro Ozawa
	Ferromagnetic Weyl semimetal phase and magnetic
	transport properties in Kagome-lattice shandite

10:30 - 10:50 **Coffee Break**

12:10 - 13:40 **Photo Session and Lunch**

Novel Spintronics Materials (Chair: Hiroki Arisawa)

10:50 - 11:30	Kohei Yoshimatsu
	Investigation of Electronic and Magnetic Properties for Complex
	Transition-Metal Oxides using Soft X-ray Spectroscopy
11:30 - 11:50	Juyoung Yoon
	Crystal Structure and Anomalous Hall Effect of Sputter-deposited
	Epitaxial Mn ₃ Sn Thin Films
11:50 - 12:10	Daichi Saito
	Thickness Dependence of Magnetotransport Properties of
	Rocksalt NdO Epitaxial Thin Films

Surficial and Interfacial Magnetism (Chair: Daichi Saito)

13:40 - 14:00	Hirofumi Oka
	Spatially resolved magnetic anisotropy of Co nanostructures
14:00 - 14:20	Wang Yihao
	Imaging the quantum Hall incompressible strip
	influenced by disorder

14:20 - 14:40 **Coffee Break**

Laboratory Tour

14:40 - 16:00	Advanced Institute for Materials Research
16:00 - 17:00	Research Institute of Electrical Communication

Poster Session

17:30 - 20:00 Poster Session and Dinner (Combination Room, AIMR 5F)

February 21st (Fri.) 2020

Spin-Orbit Interaction (Chair: Jan-Erik Reinhard Wichmann)

10:00 - 11:00	Luqiao Liu (Invited Lecture) Magnonics for Wave-Based Computing	
11:00 - 11:20	Coffee Break	
	Keita Nakagawara Enhancement of spin Hall angle in CuPt alloy systems	
11:40 - 12:20	Justin Tony Hou Hybridized Magnons in Van der Waals Antiferromagnets and Circuit Quantum Electrodynamics	
12:20 - 13:50	Free Discussion and Lunch	
Topological Spin Transport (Chair: Hui Shen)		
13:50 - 14:50	Oleg A. Tretiakov (Invited Lecture) Topological Spintronics with (Anti)Skyrmions and Bimerons	
14:50 - 15:10	Coffee Break	
15:10 - 15:30	Se Hoon Kim Theoretical study of spin torque and domain wall motion on ferromagnetic Kagome lattice	
15:30 - 15:50	Katsuya Konno Alkali metal intercalation effect on a Kitaev spin liquid candidate material α -RuCl ₃	
15:50 - 16:10	Jan-Erik Reinhard Wichmann Majorana Zero Modes in Dirac Semimetal Heterostructures	

16:10 - 16:20 Closing Remarks

Poster Session

P1 Daichi Saito

Magnetotransport Properties in Rocksalt NdO/EuO Heterojunction

P2 Hui Shen

A Novel Cluster Validity Index using Global Separation and Local Dispersion for High Accuracy Image Classification

P3 Koichi Oyanagi

Spin Transport in Paramagnetic Insulators

P4 Muhamad Arif Ihsan Bin Mohdnoor Sam

Magnetic Tunnel Junction Sensor based Non-Destructive Testing

P5 Qixian Liao

Spin relaxation mechanism in topological materials Bi₄Te₃ and Bi₂Te₃

P6 Tetsu Sato

Structure and magnetic properties of Dy-phthalocyanato double decker complexes

P7 Yifei Tang

Possible Vector Chiral Vortex in the Two-Dimensional Triangular Antiferromagnet: FeGa₂S₄

P8 Yuan Tian

Scaling laws on enhancement of the electric field inside a hollow cylinder

P9 Yuta Yahagi

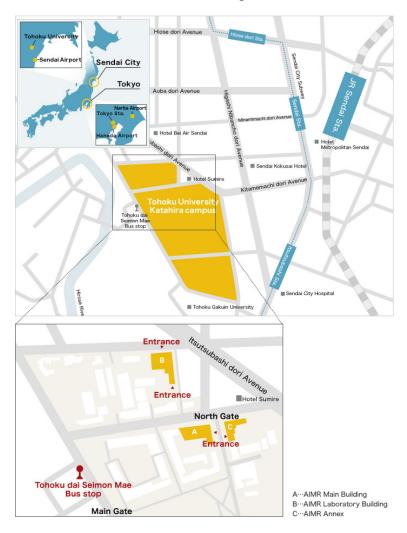
Theoretical Study of the Spin-current Induced by s-d scattering in Ferromagnetic Metals

Access

Conference Site

2F Seminar Room (2B), AIMR Main Building (B01), Katahira Campus, Tohoku University

2-1-1 Katahira, Aoba-ku, Sendai, 980-8577 Japan



All information taken from https://www.wpi-aimr.tohoku.ac.jp/en/about/access/

From Narita Airport



From Haneda Airport



From Sendai Airport



From Sendai Station

By foot

Approx. 15 min. work from the West Exit of Sendai Station

By taxi

Approx. 10 min. by taxi from the West Exit on the first floor of Sendai Station

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