SpinTECH IX

9th International School and Conference on Spintronics and Quantum Information Technology

- Fukuoka, June 4th to 8th, 2017 -

http://www.spintech9.iis.u-tokyo.ac.jp/

Time schedule for Spintech 2017 School and Conference

June 4 (Sunday) - 8 (Thursday), 2017
Fukuoka International Congress Center

Jun. 4 (Sun)

Spintech 2017 School and Conference

15:00-17:00	Registration
17:00-18:30	Welcome Drink (Room 502-503)

Jun. 5 (Mon)

Spintech 2017 School

8:00-9:00	Registration	
9:00-10:10	L-1	D. Awschalom
10:10-10:40	Break	
10:40-11:50	L-2	H. Ohno
11:50-14:00	Lunch	
14:00-15:10	L-3	D. Loss
15:10-15:40	Break	
15:40-16:50	L-4	K-J Lee
16:50-17:20	Break	
17:20-18:30	L-5	J. Klinovaja
18:30-19:00	Transfer	
19:00-21:00	Welcome Reception (Palace room@Sunpalce)	

Jun. 6 (Tue)

Spintech 2017 School

9:00-10:10	L-6	N. Samarth
10:10-10:40	Break	
10:40-11:50	L-7	M. Kläui
11:50-13:30	Lunch	

Spintech2017 Conference

13:30-14:10	INV-1	G. Beach
14:10-14:50	INV-2	T. Jungwirth
14:50-15:10	O-1	M. Grzybowski
15:10-15:30	O-2	N. Rossi
15:30-16:00	Break	
16:00-16:40	INV-3	M. Bibes
16:40-17:20	INV-4	A. Bonanni
17:20-17:40	O-3	M. Foltyn
17:40-18:00	O-4	M. Jamet
18:00-19:00	Transfer	
19:00-21:00	Banquet (Hakata Bay cruise)	

Jun. 7 (Wed)

Spintech2017 Conference

9:00-9:40	INV-5	L. Vandersypen
9:40-10:20	INV-6	H. Takesue
10:20-10:40	Break	
10:40-11:00	O-5	A. Crippa
11:00-11:40	INV-7	S. Takei
11:40-12:00	O-6	T. Fujita
12:00-13:30	Lunch	
13:30-15:30	Poster Session A (Room 502-503, Lobby)	
15:30-16:10	INV-8	B. Hillebrands
16:10-16:50	INV-9	R. Deacon
16:50-17:10	Break	
17:10-17:30	O-7	M. Kawamura
17:30-17:50	O-8	C. Trang
17:50-19:50	Poster Session B (Room 502-503, Lobby)	

Jun. 8 (Thu)

Spintech2017 Conference

9:00-9:40	INV-10	G. Salis
9:40-10:20	INV-11	K. Kobayashi
10:20-10:40	Break	
10:40-11:00	O-9	F. Pezzoli
11:00-11:20	O-10	C. Egues
11:20-11:40	O-11	N. Asam
11:40-12:00	O-12	T. Kuczmik
12:00-13:30	Lunch	
13:30-13:50	O-13	L. Thiel
13:50-14:10	O-14	R. Moriya
14:10-14:50	INV-12	S. Omar
14:50-15:30	INV-13	E. Saitoh
15:30-15:50	Closing	

Contents

Oral presentation schemes

The time allotted to each oral presentation is:

Lecture talks (L)	70 min including 10 min discussion
Invited talks (INV)	40 min including 10 min discussion
Contributed talks (O)	20 min including 5 min discussion

LCD projector will be available. Those who wish to use an LCD projector should bring their own computers. To save your presentation time, please start up your computer before talk if you will use it.

June 4th, Sunday

15:00 Registration starts in "Fukuoka International Congress center (5th floor)"

17:00 Welcome Drink (Room 502-503)

June 5th, Monday

8:50-9:00 Welcome address

SpinTech School: Day1

L 1 Lecture-1: **David Awschalom:** *University of Chicago*
9:00-10:10 **"Quantum Spintronics with Semiconductors"**

10:10-10:40 Coffee Break

L 2 Lecture-2: **Hideo Ohno:** *Tohoku University*
10:40-11:50 **"Introduction to Spintronics Devices for VLSI"**

11:50-14:00 Lunch

L 3 Lecture-3: **Daniel Loss:** *University of Basel*
14:00-15:10 **"Spin Qubits in Semiconducting Nanostructures"**

15:10-15:40 Coffee Break

L 4 Lecture-4: **Kyung-Jin Lee:** *Korea University*
15:40-16:50 **"Spintronics based on Antiferromagnets and Ferrimagnets"**

16:50-17:20 Coffee Break

L 5 Lecture-5: **Jelena Klinovaja:** *University of Basel*
17:20-18:30 **"Topological Quantum States"**

18:30-19:00 Transfer

19:00-21:00 Welcome Reception (Palace room @ Sunpalace Hotel)

June 6th, Thuesday

SpinTech School: Day2

L 6 Lecture-6: **Nitin Samarth:** *Penn State University*
9:00-10:10 **"Topological Spintronics"**
(planning to present by Skype)

10:10-10:40 Coffee Break

L 7 Lecture-7: **Mathias Kläui:** *University of Mainz*
10:40-11:50 **"Tutorial on Domain Wall and Skyrmion Dynamics -from fundamental Science to Applications-"**

11:50-13:30 Lunch

SpinTech Conference: Day1

INV 1 **Geoffrey S. D. Beach:** *Massachusetts Institute of Technology*
13:30-14:10 **"Current-Induced Switching in a Magnetic Insulator"**

INV 2 **Tomas Jungwirth:** *Institute of Physics, Academy of Sciences of the Czech Republic*
14:10-14:50 **"Electric field switching of antiferromagnetic multi-level bit-cells by pulse-length scaled down to a picosecond"**

O 1 **Michal Grzybowski:** *Institute of Physics, Polish Academy of Sciences*
14:50-15:10 **"Imaging Current-Induced Switching of Antiferromagnetic Domains in CuMnAs"**

O 2 **Nicola Rossi:** *University of Basel*
15:10-15:30 **"Torque Magnetometry of Individual GaAs Nanowires with Ferromagnetic MnAs Tips"**

15:30-16:00 **Coffee Break**

INV 3 **Manuel Bibes:** *Universite Paris-Sud*
16:00-16:40 **"Highly efficient spin-charge conversion in engineered $SrTiO_3$-based 2-dimensional electron systems"**

INV 4 **Alberta Bonanni:** *Johannes Kepler University*
16:40-17:20 "**Perspectives for III-nitrides: spin-orbitronics and piezoelectro magnetization effects**"

O 3 **Marek Foltyn:** *Institute of Physics, Polish Academy of Sciences*
17:20-17:40 "**Stretching magnetism with an electric field in a nitride semiconductor**"

O 4 **Matthieu Jamet:** *CEA Grenoble and Université Grenoble Alpes*
17:40-18:00 "**Evidence for spin-to-charge conversion by Rashba coupling in metallic states at the Fe/Ge(111) interface**"

18:00-19:00 **Transfer**

19:00-21:00 **Banquet: Hakata Bay cruise**

June 7th, Wednesday

SpinTech Conference: Day2

INV 5 **Lieven Vandersypen:** *Technical University of Delft*
9:00-9:40 "**A "Spins-inside" Quantum Processor**"

INV 6 **Hiroki Takesue:** *NTT Basic Research Laboratory*
9:40-10:20 **"Artificial spin network based on coupled optical parametric oscillators for solving Ising model"**

10:20-10:40 **Coffee Break**

O 5 **Alessandro Crippa:** *Université Grenoble Alpes*
10:40-11:00 "**Spin qubit manipulation by g-factor electric modulation in Silicon transistors**"

INV 7 **So Takei:** *Queens College of the City University of New York*

11:00-11:40 "**Prediction for spin current and its noise generated across biased quantum spin chains**"

O 6 **Takafumi Fujita:** *Delft University of Technology*

11:40-12:00 "**Coherent spin shuttling through quantum dots**"

12:00-13:30 Lunch

13:30-15:30 Poster Session A (Room 502-503, Lobby)

INV 8 **Burkhard Hillebrands:** *Technische Universität Kaiserslautern*

15:30-16:10 **"Physics and applications of focused spin-wave beams and caustics"**

INV 9 **Russell Deacon:** *RIKEN Center for Emergent Matter Science*

16:10-16:50 **"Signatures of Topological Superconductivity in the dynamics of HgTe Josephson Junctions"**

16:50-17:10 Coffee Break

O 7 **Minoru Kawamura:** *RIKEN Center for Emergent Matter Science*

17:10-17:30 "**Magnetic Heterostructure of Topological Insulators: A Platform for Topological Magnetoelectric Effect**"

O 8 **Chi Xuan Trang:** *Tohoku University*

17:30-17:50 "**Observation of tunable Dirac-cone surface state in bulk-insulating topological insulator $TlBi_{1-x}Sb_xTe_2$**"

17:50-20:00 Poster Session B (Room 502-503, Lobby)

June 8th, Thursday

SpinTech Conference: Day3

INV 10 9:00-9:40 — **Gian Salis:** *IBM Research-Zurich*
"Control of spin precession by drift and diffusion in a 2D electron gas"

INV 11 9:40-10:20 — **Kensuke Kobayashi:** *Osaka University*
"Spin-dependent Current Fluctuations in Mesoscopic Conductors"

10:20-10:40 Coffee Break

O 9 10:40-11:00 — **Fabio Pezzoli:** *University of Milano-Bicocca*
"Strong confinement-induced engineering of the g-factor and lifetime of conduction electron spins in Ge quantum wells"

O 10 11:00-11:20 — **Nagarjuna Asam:** *Kyushu University*
"Spin-current Absorption and Enhancement by Additional Ferromagnetic Layer"

O 11 11:20-11:40 — **Carlos Egues:** *Universidade de São Paulo*
"Stretchable spin helices and persistent skyrmion lattices in non-interacting spin-orbit coupled GaAs quantum wells"

O 12 11:40-12:00 — **Thomas Kuczmik:** *University of Regensburg*
"Nonlocal background magnetoresistance in high mobility 2D spin injection devices"

12:00-13:30 Lunch

O 13 13:30-13:50 — **Lucas Thiel:** *University of Basel*
"Quantitative nanoscale vortex imaging using a cryogenic quantum magnetometer"

O 14 13:50-14:10 — **Rai Moriya:** *University of Tokyo*
"Dry transfer fabrication of magnetic tunnel junction built from magnetic atom intercalated TaS_2"

INV 12 **Siddharta Omar:** *University of Groningen*
14:10-14:50 **"Bias induced up to 100% spin injection/detection polarization and 90 μm spin relaxation length in graphene-hBN heterostructure"**

INV 13 **Eiji Saitoh:** *Tohoku University*
14:50-15:30 **"Spinon and Phonon in Spintronics"**

15:30-15:50 Closing Remarks

Poster Session	No.	Title Poster Presenter
A	1	*Valley-enhanced fast relaxation of gate-controlled donor qubits in silicon* Andras Palyi
A	3	*Spin Transport in the Persistent Photoconductor $Al_{0.3}Ga_{0.7}As$:Si* Tianhan Liu
A	5	*Electron and thermal transport studies in large $MoSe_2$ single crystals* Ram Shanker Patel
A	7	*Electrical Detection of Antiferromagnetic-Ferromagnetic Phase Transition in Pd-doped FeRh* Kenta Matsumoto
A	9	*Photon-Assisted Tunneling in Carbon Nanotube Double Quantum Dots* Edyta Natalia Osika
A	11	*Spin Relaxation Mechanism in Heavily Doped n-type Silicon* Mizue Ishikawa
A	13	*Non-local Measurement of Asymmetric Anisotropic Magnetoresistance in Ferromagnet/Non-magnet Hetero Structures* Tian Li
A	15	*Comparison of current induced effective fields in Ta/CoFeB/MgO hetero-structure between epitaxial and amorphous Ta underlayers* Hiromu Gamou
A	17	*Exchange Stiffness in Transition-Metal Thin Films on MgO(001) Revisited: Mechanism and Electric-Field-Induced Modification* Abdul-Muizz Pradipto
A	19	*Electric field effect on exchange interaction in Co/Pt thin film* Mio Ishibashi
A	21	*Optimization of Co/Fe ratio for efficient thermal spin injection in CoFeAl alloy* Tatsuya Nomura

Poster Session	No.	Title Poster Presenter
A	23	*Anomalous Hall effect of Mn_2CoAl films grown by low-temperature molecular beam epitaxy* Keisuke Arima
A	25	*Tuning of Magnetoconductance by Electrical Control of Band Alignment in a n^+-(In,Fe)As/p^+-InAs Esaki Diode* Anh Duc Le
A	27	*Spin-to-charge conversion in a single $MoSe_2$ layer grown by van der Waals epitaxy on SiO_2/Si* Matthieu Jamet
A	29	*Spin transitions driven by electric dipole spin resonance in fluorinated single- and bilayer-graphene quantum dots* Dariusz Pawel Zebrowski
A	31	*Optimization of STIRAP-based state transfer under dissipation* Stefano Chesi
A	33	*Influence of Mn composition in Co_2MnSi films on magnetoresistance characteristics of Co_2MnSi-based giant magneto-resistance devices* Masaki Inoue
A	35	*Giant Enhancement of Nonlocal Spin Signals in n-Ge using $Co_2FeAl_{0.5}Si_{0.5}$ Electrodes* Makoto Tsukahara
A	37	*Enhancement of spin mixing conductance by ferromagnetic layer* Ryohei Nakamura
A	39	*Local and non-local structural spin valves comprising $Fe_3Si/FeSi_2/Fe_3Si$ trilayer films* Ken-ichiro Sakai
A	41	*Enhancement of dynamical thermal spin injection efficiency in FM/NM bilayer system* Kazuto Yamanoi
A	43	*Spin-current detection in magnetic multilayer with nano-constricted region* Sho Inami

Poster Session	No.	Title Poster Presenter
A	45	*Possibility of supercurrent conversion through a magnetic domain wall in a Ni-Fe wire* Kohei Ohnishi
A	47	*Resistance of the topological insulator edge channel due to nuclear spins* Peter Stano
A	49	*Magnetism and nanostructure of Eu-doped GaN* Akira Masago
A	51	*Hole density dependence of spin relaxation time in Be-doped InGaAsP bulk* Kizuku Yamada
A	53	*Effect of thermal annealing on hole spin relaxation of Be-doped InGaAsP bulk* Shiima Tanigawa
A	55	*Spin-Interference in Anisotropic Spin-Orbit Fields in Mesoscopic Rings* Henri Saarikoski
A	57	*Spin polarization measurements of ferromagnetic materials using point contact Andreev reflection technique.* Masanobu Shiga
A	59	*Hydrogen transfer via quantum tunneling in metallic nanocontacts studied by point-contact spectroscopy* Tatsuya Kawae
A	61	*Polarized Neutron Reflectivity Study of Magnetic Structure in $Fe_3Si/FeSi_2$ Superlattices* Takayasu HANASHIMA
A	63	*Wide-field Magnetometry by Frequency Modulation of Microwaves Based on Nitrogen-vacancy Centers in Diamond* Shintaro Nomura
A	65	*MnGa thin films with perpendicular magnetic anisotropy grown on BiSb topological insulator* Nguyen Huynh Duy Khang

Poster Session	No.	Title Poster Presenter
A	67	*Electronic Structure and Magnetic Anisotropies of Antiferromagnetic Transition-metal Difluorides* Cinthia Antunes Correa
A	69	*Control of valley dynamics in silicon quantum dots in the presence of an interface step* Péter Boross
A	71	*Data-driven atomic-layer alignments for large perpendicular magnetic anisotropy in Au-Fe thin films on MgO(001)* Kohei Nozaki
A	73	*Unconventional spin transport property in ferromagnetic / nonmagnetic bilayer channel* Taisei Ariki
A	75	*Magnetic Anisotropy in Insulating Dilute Ferromagnet (Ga,Mn)N* Katarzyna Gas
A	77	*Magnetization Switching of High Magnetic-Anisotropy Co/Pt Multilayers Induced by Spin-Orbit Torque* Butsurin Jinnai
A	79	*Capacitance Spectroscopy of Dirac Fermions in HgTe Quantum Well* Maxim Savchenko
A	81	*Current Induced Magnetic Domain Wall Motion in Pt/Co/Pd and Pd/Co/Pt System* Yicheng Guan
A	83	*Control of Spin Helix Symmetry in Semiconductor Quantum Wells by Crystal Orientation* Michael Kammermeier
A	85	*Coherent spin-polarized tunneling in fully epitaxial magnetic tunnel junctions with a semiconductor GaO_x tunnel barrier* Hidekazu Saito
A	87	*Quantum Hall effects in $In_{0.75}Ga_{0.25}As$ bilayer 2DEG with similar sheet electron densities* Syoji Yamada

Poster Session	No.	Title Poster Presenter
A	89	*Antenna Configuration Dependence of the Nonreciprocity of Magnetostatic Surface Wave* Takashi Manago
A	91	*Ferromagnetic properties and magnetic percolation threshold in MBE-grown (Zn,Mn,Sn) As_2 thin films* NAOTAKA UCHITOMI
A	93	*Enhancement of spin-orbit interaction in oxidized Cu thin films measured by weak anti-localization* Ryoto Enoki
A	95	*Electronic structure of (Ga,Mn)As studied by in-situ high-resolution ARPES* Seigo Souma
A	97	*Dual-spacer nanojunctions exhibiting large current-perpendicular-to-plane giant magnetoresistance for ultrahigh density magnetic recording* Zhenchao Wen
A	99	*Extraordinary Hall effects and spin Hall effects in ternary alloy spin glasses* Hiroki Taniguchi
A	101	*Terahertz control of magnetization using the Franz-Keldysh effect in a ferromagnet* Tomoaki Ishii
A	103	*Magnetotransport in narrow gap semiconductor InSb quantum wells* Tada Masaki
A	105	*Inverse spin Hall effect in single-crystal bismuth* Masayuki Matsushima
A	107	*Modulation of Spin-Transport and Magnetization Properties Due to Application of High Pressure* Akihiro Mitsuda
A	109	*Laser-induced spin dynamics in CoFeB/MgO/Ta tunnel junction with voltage control of magnetic anisotropy* Yuta Sasaki

Poster Session	No.	Title Poster Presenter
A	111	*Topological Spin Currents in Graphene Nanoribbons* Ren Itoh
A	113	*Magnon diffusion in nanoporous magnet* Takumi Sugiura
A	115	*Tunable Magnonic Crystals with Alternating Dzyaloshinskii–Moriya Interactions* Seung-Jae Lee
A	117	*Visualization of Propagating Spin-Wave Packets and Dispersion Relation Cleated by a Laser Pulse in NiFe Thin Films* Akira Kamimaki
A	119	*Enhancement of spin orbit interaction in GaAs quantum well by inserting GaInP* Juyoung Yoon
A	121	*Electron transport induced by the magnon scattering of the thermal gradient* Koujiro Hoshi
A	123	*Spin defect centers in nanostructured diamonds for applications in quantum optics and quantum sensing* Masazumi Fujiwara
A	125	*Transport and optical properties of (110) GaAs quantum wells for photon-spin quantum state conversion using heavy hole states* Tomohiro Nakagawa
A	127	*Creation of long-lived magnons by nonlinear spin dynamics* Hiroto Sakimura
A	129	*Single-shot measurement of a nuclear spin in an NV center in diamond* Riyo ENYO
A	131	*Quantum teleportation transfer from a photon to a nucleon in diamond* Hiroki Kano

Poster Session	No.	Title Poster Presenter
A	133	*Perpendicular magnetic anisotropy on epitaxial $L_1$1-CuPt* Shunsuke Yamada
A	135	*Adaptive quantum manipulation over geometrical spin qubits under a zero field* Kouyou Kuramitani
A	137	*Spin Hall Efficiency in Heavy-Element-Free Compounds* Yong-Chang Lau
A	139	*Geometric quantum entanglement manipulation with a polarized microwave in an NV center in diamond* Kodai Nagata
A	141	*Experimental Study on Nonlinear Magnetization Dynamics in sub-micron wide NiFe wires* Genki Okano
A	143	*Optimal frequency for microwave-assisted magnetization reversal in exchange coupled composite media* Shoko Suzuki
A	145	*Time-resolved imaging of spin wave transmission through an air gap* Keita Matsumoto
A	147	*Resistive switching device in laterally configured CoFeB /NiO bilayer system* Yosuke Nakano
A	149	*Enhancement of Interface Anisotropy Energy by Fluoride Introduction at CoFeB/Al_2O_3 and CoFeB/MgO Interfaces* Weidong Li
A	151	*Geometric Effects on Rashba Spin Interferometers* Junsaku Nitta
A	153	*Hot electron effect on drift spin transport in GaAs quantum well* Yoji Kunihashi

Poster Session	No.	Title Poster Presenter
A	155	*Conversion of electric and magnetic fields by combining piezoelectric and magnetoelastic effects* Tsubasa Sasaki
A	157	*Spin-dependent transport in NiFe / Pt bilayer system* Sakura Asano
A	159	*Superconducting Proximity Effect in Ferromagnetic Semiconductor (In,Fe)As* Taketomo Nakamura
A	161	*Numerical simulations of the Coulomb blockade microscopy: probing the local properties of the planar quantum dots with the scanning gate technique* Elzbieta Wach
A	163	*Modulation of translational mode frequency of magnetic vortex caused by interfacial Dzyaloshinskii-Moriya interaction* Yuki Goto
A	165	*Hyperfine Spin Relaxation in a GaAs Single Electron Quantum Dot* Leon Camenzind
A	167	*Reversible oxidation of cobalt under ionic liquid gate voltage in Pt/Co/AlO trilayer structure* Minsik Kong
A	169	*Spin injection into multilayer graphene from highly spin-polarized Co_2FeSi Heusler alloy* Rai Moriya
A	171	*Microscopic Knight-shift measurements in the quantum-Hall breakdown system* Katsushi Hashimoto
A	173	*Spatially resolved separation of spin and charge diffusion in a two-dimensional electron gas* Yuansen Chen
A	175	*Spin-dependent transport in hole quantum dots* A.R. Hamilton

Poster Session	No.	Title Poster Presenter
A	177	*Magnetoresistance effect in Fe/B-doped carbon/Fe3Si trilayered spin valve junctions* Kazuki Kudo
A	179	*Spin valve effects in trilayered films comprising nitrogen-doped carbon interlayers* Satoshi Takeichi
B	2	*Using Spin Polarized STM Spectroscopy to determine the Topological Transition in 1D Rashba Nanowire* Denis Chevallier
B	4	*Valley spin valves in periodically buckled honeycomb lattices* Son-Hsien Chen
B	6	*Systematic study of spin transport in Si nanowires with axial doping gradient in lateral spin valve configurations* Konstantinos Kountouriotis
B	8	*Robust signature of the topological phase transition in the edge spin densities of the Majorana nanowires* Marcel Serina
B	10	*Green's Function of the Magnetic Topological Insulator in a Gradient Expansion Approach* Yusuke Hama
B	12	*Finite-Temperature Conductance of Helical and Fractional Helical Luttinger Liquids* Pavel Aseev
B	14	*$Fe_3Si/Ge/Fe_3Si$ trilayers on GaAs(001)* Jens Herfort
B	16	*Comparison of quantum Hall breakdown characteristics in GaAs/AlGaAs and InGaAs/InP quantum wells between spin-polarized filling factor v=1 and v=3 states* David Guy Austing
B	18	*Microscopic Origin of Dzyaloshinskii-Moriya Interaction at the Co/Pt interface* Sanghoon Kim

Poster Session	No.	Title Poster Presenter
B	20	*Chirality-induced anomalous Hall effect: Bridging a gap between weak and strong coupling regimes* Kazuki Nakazawa
B	22	*Anomalous Nernst effect in a microfabricated device made of non-colliner antiferromagnet* Hideki Narita
B	24	*Spin Hall effect in ferromagnets measured by spin-torque FMR* Kensho Tanaka
B	26	*Spin Transport in Fully Epitaxial CoFe/p-Ge/Fe_3Si Structures* Masahiko Ikawa
B	28	*Spin-vorticity coupling in a Dirac electron fluid* Takumi Funato
B	30	*Interplay between spin and charge in thin Bismuth single crystalline films grown on Ge (111)* Matthieu Jamet
B	32	*Imaging global vortex in CoFeB nanotubes* Denis Vasyukov
B	34	*Antisymmetric Magnetoresistance via domain wall propagations in a non-collinear antiferromagnetic wire* Satoshi Sugimoto
B	36	*Materials dependence of spin-to-charge current conversion at non-magnetic metal/oxide interface* Hanshen Tsai
B	38	*Electrical Detection of Nuclear Spin-Echo Signals in an Electron Spin Injection System* Zhichao Lin
B	40	*Local magnetoresistance in a $Co_2FeAl_{0.5}Si_{0.5}/n^+$-Ge lateral spin valve* Soichiro Oki

Poster Session	No.	Title Poster Presenter
B	42	*Donor-Induced Spin Relaxation in n-Ge* Michihiro Yamada
B	44	*Spin Seebeck voltage enhancement by $Ta_{50}W_{50}$ with large spin Hall angle* Fumiya Nakata
B	46	*Spin Pumping into Superconductors* Hiroto Adachi
B	48	*Magnetic and electric properties of the stacking film with quasi antiferromagnetic layer* Gen Nagashima
B	50	*Observation of spin relaxation in GaInNAs quantum well and InGaAs Quantum well* Takuya Kamezaki
B	52	*Resistively-detected NMR lineshape variations in a quantum point contact* M. H. Fauzi
B	54	*Material design for Ge based magnetic semiconductor* Hikari Shinya
B	56	*Fabrication of quasi antiferromagnetic layer by 90-degree magnetic coupling through magnetic oxide layer* Yudai Hirayama
B	58	*Observation of Spin Relaxation in Fe Doped InP Bulk* Masayuki Iida
B	60	*The fluctuation of efficiencies of charge-spin and charge-heat conversions* Hiroki Okada
B	62	*Electric field dependence of spin drift velocity in non-degenerate Si* Soobeom Lee

Poster Session	No.	Title Poster Presenter
B	64	*Refracting-Facet Spin Photodiode based on Fe/x-AlO_x/p-InGaAs Schottky Junction* Ronel Christian Intal Roca
B	66	*Band-Offset Engineering for Control of the Spin Relaxation* Hiroshi AKERA
B	68	*Spin Dependent Coupling between Quantum Dots and Topological Quantum Wires* Silas Hoffman
B	70	*Nernst Voltage Generated by Magnon Hall Effect on Magnetic Skyrmion System* Yuhki Shimada
B	72	*Dynamics of angular momentum in a spin-phonon system* Jotaro Nakane
B	74	*Large scale density functional calculations for high entropy alloys by order-N all-electron screened KKR Green's function method* Tetsuya Fukushima
B	76	*High-temperature ferromagnetism in n-type and p-type Fe-doped ferromagnetic semiconductors* Nguyen Thanh Tu
B	78	*Microscopic Theory of Spin-wave Spin Torque induced by Temperature Gradient* Terufumi Yamaguchi
B	80	*Fermi Level Position and Bands Offsets Determination in (Ga,Mn)N by Contactless Electroreflectance* Maciej Sawicki
B	82	*Spin properties of excitons in InAs/InP(001) quantum dashes emitting at 1.55 μm* Marcin Syperek
B	84	*Novel Gap Closure from Magnetic Textures in Superconductors.* Chris James Fortune Carroll

Poster Session	No.	Title Poster Presenter
B	86	*Influence of above-barrier illumination on spin relaxation time of InGaAs/InAlAs multiple quantum wells* Ken Morita
B	88	*Quantum dynamics of skyrmions in chiral magnets* Christina Psaroudaki
B	90	*Temperature dependent Spin-Orbit torque in perpendicularly magnetized Pt(Pd)/Co system* Yuki Hibino
B	92	*First-Principles Materials Design of Spin-Valley Topological Oxides* Kunihiko Yamauchi
B	94	*Weak anti-localization in $In_{0.75}Ga_{0.25}As$ two-dimensional electron gas bilayer samples* Syoji Yamada
B	96	*Spin injection into Si through an amorphous SiO_xN_y tunnel barrier* Ryosho Nakane
B	98	*Quantum Oscillation of Anomalous Hall Conductivity Induced by Magnetic Skyrmions on Topological Insulator Surfaces* Yasufumi Araki
B	100	*Effective Hamiltonian approach to optical chirality in Weyl spin-orbit system* Hideo Kawaguchi
B	102	*Dynamics of the Electric-Field Induced Magnetization in Antiferromagnetic Chromium Oxide: Faraday Rotation Measurement* Shun Hikita
B	104	*First-Principles Materials Design on TM-doped $ZnSnAs_2$; TM = V, Cr, Mn, Fe, Co, and Ni* Hidetoshi Kizaki
B	106	*Magnetic-Field Dependence of the Coherent Magnons in an Antiferromagnet NiO* Kensho Kawamoto

Poster Session	No.	Title Poster Presenter
B	108	*Non-local opto-electrical spin injection and detection in germanium at room temperature* Matthieu Jamet
B	110	*Electric-field effect on spin-wave resonance in nanoscale CoFeB/MgO magnetic tunnel junctions* Takaaki Dohi
B	112	*Design of Surface Plasmon Antennas on Gate-defined Lateral Quantum Dots* Rio Fukai
B	114	*Increase of tunneling magnetoresistance in trilayer structures composed of group-IV ferromagnetic semiconductor $Ge1_{-x}Fe_x$, MgO, and Fe* Kosuke Takiguchi
B	116	*Electrical Detection of Antiferromagnetic Dynamics* Yuta Yamane
B	118	*First-principles study on structural stability and magnetism in equiatomic quaternary Heusler alloys* Fumiaki Kuroda
B	120	*Microwave engineering and materials science for nitrogen-vacancy centers in diamond* Eisuke Abe
B	122	*New diluted magnetic semiconductors: Role of narrow band gaps* Bo Gu
B	124	*Spin current thorough helical magnets* Jun-ichiro Ohe
B	126	*Terahertz Spin-Wave Emission from Ferrimagnetic Domain walls* SEHYEOK OH
B	128	*Voltage control of magnetism in ion-gated Co/Pt with surface oxidation* Takamasa Hirai

Poster Session	No.	Title Poster Presenter
B	130	*Quadrupolar effect in zero-field dynamic nuclear spin polarization of a single self-assembled InAlAs quantum dot* Ryosuke Matsusaki
B	132	*Electric Field Controlled Thermo-Power Effects in $La_{0.7}Ca_{0.3}MnO_3$ Thin Films* Himanshu Sharma
B	134	*Perpendicular magnetocrystalline anisotropy in 3d transition-metal thin films for spintronic devices* Thao Thi Phuong Nguyen
B	136	*Investigation of optical polarization in layered semiconductor GaSe slab* Masaki Suzuki
B	138	*Spin-torque ferromagnetic resonance of ionic-liquid gated Pt/$Ni_{81}Fe_{19}$* Satoshi Haku
B	140	*Spin Relaxation Influence on Edelstein Magnetoresistance at Metal/Oxide Interfaces* Junyeon Kim
B	142	*Optical non-adiabatic geometric rotation with a degenerate spin under a zero field* Yuhei Sekiguchi
B	144	*Observation of temperature dependent Terahertz modulation in rare earth iron garnet* Pritam Khan
B	146	*Cross Sectional STM/STS Study on 2D-Topological Insulator InAs/GaSb QW Systems* Shigeru Kaku
B	148	*Dynamics of the Electric-Field Induced Magnetization in YIG Observed by Faraday Rotation* Takashi Hasunuma
B	150	*Spin transmission in collinear ferroic magnetic multilayer systems* Felix Bastian Paul Fuhrmann

Poster Session	No.	Title Poster Presenter
B	152	*Cu thickness dependence of alternating spin current generated via spin rotation coupling in surface acoustic waves* Tomohide Yoshikawa
B	154	*Analysis of Coupled Oscillation of Magnetic Vortices Excited by Spin Transfer Torque* Taisuke Horaguchi
B	156	*Magnetic tunnel junctions with semiconductor $CuIn_{1-x}Ga_xSe_2$ tunneling barrier* Shinya Kasai
B	158	*Enhancement of Spin Hall Effect Induced by Natural Oxidation of Cu* Yuito Kageyama
B	160	*Propagation of Spin-Wave Spin Current in Helical Multiferroics* Shin Miyahara
B	162	*Transport properties of Mn-doped Bi_2Se_3 thin films* Thierry Ferrus
B	164	*Principal Investigations of Acceptor Qubits in Silicon* Takashi Kobayashi
B	166	*Kondo effect and superconducting transport in SiGe self-assembled quantum dots* Kazutoshi Kawaguchi
B	168	*Long Range Spin Wave Propagation in Ordered Ferromagnetic FeRh* Takamasa Usami
B	170	*The new methods for spin torque measurement* Kungwon Rhie
B	172	*Coherent Long-Distance Displacement of Individual Electron Spins* Pierre Andre Mortemousque

Poster Session	No.	Title Poster Presenter
B	174	*Spin and Charge Signatures of Topological Superconductivity in Rashba Nanowires* Pawel Szumniak
B	176	*Kondo-Fano resistance peak in a two-dimensional electron gas under strong magnetic field* Makoto Onizaki
B	178	*Spin Nernst Effect in Platinum* Arnab Bose
B	180	*Surface Acoustic Wave Generation by Ferromagnetic Resonance* Swapnil Sopanrao Bhuktare
B	182	*Spin defect centers in nanostructured diamonds for applications in quantum optics and quantum sensing* Masazumi Fujiwara