



# International workshop on nano-spin conversion science & quantum spin dynamics

Oct 12-15, 2016, Tokyo, Japan

Takeda Hall, The University of Tokyo

## NSCS-QSD2016

### PROGRAM BOOK

Organizers :

[KAKENHI(Nano-Spin Conversion Science) ] Y. Otani, S. Murakami,M. Shiraishi, A. Oiwa, E. Saitoh  
[RIKEN CEMS] S. Tarucha, K. Ishibashi, K. Kono, G. Tatara



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<http://www.spinconversion.jp/nscs-qsd/index.html>

# NSCS-QSD 2016

## PROGRAM

### WEDNESDAY, 12 OCTOBER

08:30-09:15	Registration & Opening	
	CHAIR : Eiji Saitoh	
09:15-10:00	W1 <b>Kang Wang</b> (University of California Los Angeles)	Spin Dynamics and Textures via Interfacial Spin-Orbit Coupling
10:00-10:30	W2 <b>YoshiChika Otani</b> (University of Tokyo, RIKEN CEMS)	Spin to charge interconversion at the interfaces with strong SOI
10:30-11:00		Coffee Break
11:00-11:45	W3 <b>Juan Carlos Rojas Sanchez</b> (CNRS)	Rashba interfaces and Topological Insulators for efficient spin-to-charge current conversion at room temperature
11:45-12:15	W4 <b>Masashi Shiraishi</b> (Kyoto University)	Spin transport and conversion in semiconductors and topological insulators
12:15-13:00	W5 <b>Felix Casanova</b> (CIC Nano GUNE)	Spin Hall effect in heavy metals: mechanisms and optimization
13:00-14:30		Lunch
	CHAIR : Masashi Shiraishi	
14:30-15:15	W6 <b>Se Kwon Kim</b> (University of California Los Angeles)	A Realization of the Haldane-Kane-Mele Model in a System of Localized Spins
15:15-15:45	W7 <b>Takahiro Moriyama</b> (Kyoto University)	Antiferromagnetic spintronics and recent results
15:45-16:15		Coffee Break
16:15-17:00	W8 <b>Hyunsoo Yang</b> (National University of Singapore)	Flexible magnetic tunnel junctions and spin-orbit torque dynamics

17:00-17:30	W9 <b>Eiji Saitoh</b> (Tohoku University)	Spin Current Generators
17:30-18:15	W10 <b>Xiaofeng Jin</b> (Fudan University)	Spin Hall effect in epitaxial Cu(111) films with δ-doped Bi measured by H-Pattern

## THURSDAY, 13 OCTOBER

CHAIR : YoshiChika Otani

09:00-09:45	T1 <b>Yoshinori Tokura</b> (RIKEN CEMS, University of Toyo)	Meta-stable skyrmions in chiral magnets
09:45-10:30	T2 <b>Christopher Marrows</b> (University of Leeds)	Chiral interactions in thin film magnets

10:30-11:00		Coffee Break
11:00-11:45	T3 <b>Vladislav Demidov</b> (University of Münster)	Magnetization oscillations and waves driven by pure spin currents
11:45-12:15	T4 <b>Gen Tatara</b> (RIKEN CEMS)	Transport, magnetic and optical properties induced by emergent spin electromagnetic fields in metallic ferromagnet
12:15-13:00	T5 <b>Theo Rasing</b> (Radboud University)	Femtosecond optical control of magnetism : Towards THz spintronics
13:00-14:30		Lunch

CHAIR : Akira Oiwa

14:30-15:15	T6 <b>Timothy Phung</b> (IBM)	Spin-orbitronic materials and devices
15:15-15:45	T7 <b>Shuichi Murakami</b> (Tokyo Institute of Technology)	Current-induced magnetizations in chiral systems
15:45-16:15		Coffee Break
16:15-17:00	T8 <b>Jairo Sinova</b> (Johannes Gutenberg University of Mainz)	Antiferromagnetic spin-orbitronics
17:00-17:45	T9 <b>Dieter Weiss</b> (University of Regensburg)	Spin injection into two-dimensional electron systems

17:45-19:45 Poster Session : Bierstube

## FRIDAY, 14 OCTOBER

CHAIR : Takis Kontos

09:00-09:45	F1 <b>Sam Carter</b> (US Naval Research Laboratory)	Cavity-enhanced Raman spin flip emission from single and coupled quantum dots
09:45-10:15	F2 <b>Akira Oiwa</b> (ISIR,Osaka University)	Photon-electron spin Poincaré interface using gate-defined quantum dots
10:15-10:30		Coffee Break
10:30-11:15	F3 <b>Matthew Sellars</b> (Australian National University)	Spin wave storage of light using rare-earth doped crystals
11:15-11:45	F4 <b>Yasunobu Nakamura</b> (RIKEN CEMS, RCAST University of Tokyo)	Quantum magnonics in a ferromagnetic sphere
11:45-12:15	F5 <b>Franco Nori</b> (RIKEN CEMS, University of Michigan)	Parity-Time (PT)-symmetry in optics and the quantum spin Hall effect of light
12:15-13:45		Photo + Lunch

CHAIR : Sam Carter

13:45-14:30	F6 <b>Christian Schönenberger</b> (University of Basel)	Magnetoresistance of quantum dots with ferromagnetic split-gates
14:30-15:15	F7 <b>Charles M. Marcus</b> (Niels Bohr Institute, University of Copenhagen)	Majorana zero modes in Coulomb islands
15:15-15:30		Coffee Break
15:30-16:00	F8 <b>Russell S. Deacon</b> (RIKEN CEMS)	Signatures of 4pi periodicity in the dynamics of HgTe Josephson Junctions
16:00-16:30	F9 <b>Daniel Loss</b> (RIKEN CEMS, University of Basel)	From Majorana- to Para-Fermions in Nanowires and Helical Edge States

16:30-17:15	F10 <b>Silvano De Franceschi</b> (CEA Grenoble)	Electrically driven hole-spin resonance in silicon devices
17:15-18:45	Poster Session	
19:00-21:00	Banquet	

## SATURDAY, 15 OCTOBER

CHAIR : Akira Oiwa

09:00-09:45	S1 <b>Tristan Meunier</b> (CNRS Institut Néel)	Coherent long-distance spin displacement of individual electrons
09:45-10:15	S2 <b>Seigo Tarucha</b> (University of Tokyo)	Distance-independent Dephasing of Phase-controlled Spin Entanglement
10:15-10:45	Coffee Break	
10:45-11:30	S3 <b>Bill Coish</b> (McGill University)	Decoupling and decoherence for spin-resonator state transfer
11:30-12:00	S4 <b>Yoshiro Hirayama</b> (Tohoku University)	Interaction between electron and nuclear spins in GaAs and InSb quantum systems
12:00-12:45	S5 <b>Menno Veldhorst</b> (Delft University of Technology)	Quantum logic in silicon
12:45-14:15	Lunch	

CHAIR : Daniel Loss

14:15-14:45	S6 <b>Kouichi Sembra</b> (NICT)	Stable ‘Molecular’ State of Photons and Artificial Atom
14:45-15:30	S7 <b>Takis Kontos</b> (CNRS/ENS)	Cavity quantum electrodynamics with carbon nanotubes
15:30-16:00	Coffee Break	
15:00-15:45	S7 <b>Hongqi Xu</b> (Peking University)	Topological superconducting devices made from semiconductor nanostructures
15:45-16:15	S8 <b>Yukio Tanaka</b> (Nagoya University)	Control of odd-frequency s-wave Cooper pairs in double quantum dots

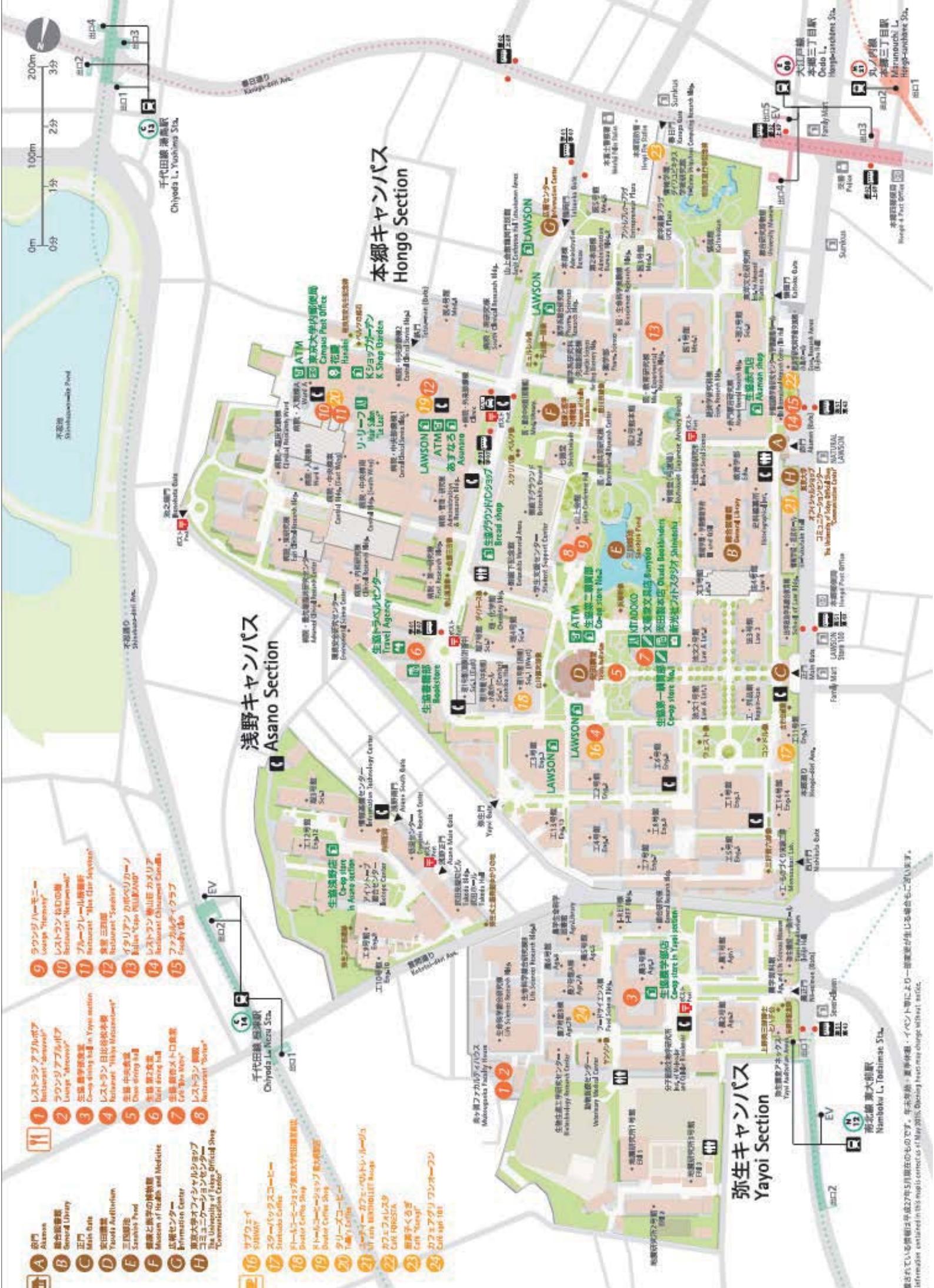
Closing & Departure : Tarucha

**1st Poster Session (NSCS) : October 13th**

Poster #	Name	Affiliation	Title
N-1	NIIMI Yasuhiro	Osaka University	Spin-related phenomena detected by spin current
N-2	QIU Zhiyong	WPI-AIMR, Tohoku University	detection of antiferromagnetic phase transition by spin current
N-3	SAGASTA Edurne	CIC nanoGUNE	Large spin-to-charge conversion in Pt/graphene lateral nanostructures
N-4	KONDOU kouta	RIKEN CEMS	Observation of charge-to-spin current conversion by Dirac surface state of topological insulators
N-5	YASUDA Kenji	University of Tokyo	Large unidirectional magnetoresistance in magnetic topological insulator
N-6	SATO Osamu	Kyushu University	Magnetization Switching via Charge Transfer in a [CrCo] Complex
N-7	PUEBLA Jorge	RIKEN CEMS	Direct observation of spin accumulation at Rashba-like interface
N-8	OKI Soichiro	Osaka University	Spin transport in n-Ge and p-Ge
N-9	MIZUKAMI Shigemi	WPI-AIMR, Tohoku University	Laser-induced spin-wave in metals under microscope
N-10	TOSHU An	Japan Advanced Institute of Science and Technology	Spin Conversion from Spin Waves into NV Centers in Diamond
N-11	MIWA Shinji	Osaka University	Spin conversion at interface of metal and dielectric
N-12	DUSHENKO Sergey	Kyoto University	Graphene spin-charge converter controlled by gate voltage
N-13	YANG Guang	RIKEN CEMS	Majorana Bound States in Magnetic Skyrmions
N-14	OHNUMA Yuichi	Japan Atomic Energy Agency	Magnon instability driven by heat current
N-15	HAMAMOTO Keita	University of Tokyo	Non-reciprocal responses in Rashba system
N-16	SAARIKOSKI Henri	RIKEN CEMS	Efficient domain wall transport and pinning in magnetic nanowires and synthetic ferrimagnets
N-17	RANA Bivas	RIKEN CEMS	Detection of voltage excited spin wave by ps-TRMOKE
N-18	KIKUCHI Toru	RIKEN CEMS	Doppler shift picture of the Dzyaloshinskii-Moriya interaction
N-19	MATSUKURA Fumihiro	WPI-AIMR, Tohoku University	Electrical modulation of damping constants in (Ga,Mn)As
N-20	SEKI Takeshi	IMR, Tohoku University	Spin Hall effect in ferromagnetic FePt alloy
N-21	OHNISHI Kohei	Kyushu University	Phase modulation of supercurrent in the multi-layer-based lateral Josephson junction
N-22	TRETIAKOV Oleg	IMR, Tohoku University	Magnetic Anisotropy due to Interplay of Curvature and Dipolar Interaction
N-23	YOKOI Naoto	IMR, Tohoku University	A Holographic Dual of Ferromagnets
N-24	TANIYAMA Tomoyasu	Tokyo Institute of Technology	Spin Wave Transmission in FeRh Thin Films
N-25	SATOH Takuya	Kyushu University	Time-resolved imaging of spin wave transmission
N-26	KAWAGUCHI Hideo	Tokyo Metropolitan University, RIKEN CEMS	Effective Hamiltonian theory for nonreciprocal light propagation in magnetic Rashba conductor
N-27	OHYA Shinobu	University of Tokyo	Spin injection into the topological crystalline insulator SnTe using spin pumping
N-28	UCHIDA Yusuke	ISSP, University of Tokyo	Size effect of electrical transport properties in NiS <sub>2</sub>
N-29	CHIBA Takahiro	IMR, Tohoku University	Proximity-induced magnetoresistance in two-dimensional Dirac electrons on ferromagnetic insulators
N-30	CHIBA Takahiro	IMR, Tohoku University	Electric-field-induced magnetic resonance in topological antiferromagnetic insulators
N-31	MIZUTA Yo Pierre	Kanazawa University	First-principles Approach for Skyrmion-driven Thermoelectric Conversion
N-32	KIM Junyeon	RIKEN CEMS	Edelstein magnetoresistance in CoFe/Cu/Bi <sub>2</sub> O <sub>3</sub>
N-33	SEKI Shinichiro	RIKEN CEMS	Thermal generation of spin current in antiferromagnets
N-34	OKUMA Nobuyuki	University of Tokyo	Microscopic derivation of spin current in topological insulator/magnetic insulator heterostructure
N-35	BORYS Pablo	RIKEN CEMS	Conservation of angular momentum in DMI spin textures
N-36	MUDULI Prasanta Kumar	ISSP, University of Tokyo	Role of interfacial exchange field in the spin-current modulation with ferromagnetic insulator
N-37	TAKAHASHI Ryo	Japan Atomic Energy Agency	Spin-hydrodynamic Conversion Effect
N-38	MATSUMOTO Kenta	ISSP, Univ. of Tokyo	Transition behavior in Pd-doped FeRh wire
N-39	TAKASHIMA Rina	Kyoto University	Supercurrent-induced Skyrmion dynamics and Tunable Weyl points in Chiral Magnet with Superconductivity
N-40	YAMAGUCHI Naoya	Kanazawa University	First-principles calculation of Rashba parameters in surface alloys of bismuth and noble metals
N-41	YOSHIKAWA Hiroki	Nihon University	All-optical magnetization switching in GdFeCo stacked on different metallic layers
N-42	OKADA Hiroki	Mie-University	The fluctuation of charge, heat and spin currents
N-43	HISATOMI Ryusuke	RCAST, University of Tokyo	Bidirectional conversion between microwave and light via ferromagnetic magnons
N-44	MIZUGUCHI Masaki	Tohoku University	Anomalous Nernst effect in Co / Ni multilayers
N-45	OGATA Yudai	Japan Atomic Energy Agency	Barnett effect in rare-earth metals
N-46	NAKAYAMA Hiroyasu	Keio University	Rashba-Edelstein magnetoresistance in metallic heterostructures

**2nd Poster Session (QSD) : October 14th**

Poster #	Name	Affiliation	Title
Q-1	LAMBERT Neill	RIKEN CEMS	Bistable Photon Emission in Hybrid-QED
Q-2	LAMBERT Neill	RIKEN CEMS	Non-perturbative and non-Markovian environments: exact solvers and applications
Q-3	FRISK KOCKUM Anton	RIKEN CEMS	Quantum optics with giant artificial atoms
Q-4	LI Zhou	RIKEN CEMS	Second harmonic generation in topological insulators
Q-5	WAKATSUKI Ryohei	University of Tokyo	Nonreciprocal Transport in Noncentrosymmetric Superconductors
Q-6	SHITADE Atsuo	RIKEN CEMS	Anomalous Thermal Hall Effect in a disordered Weyl ferromagnet
Q-7	HSU Chen-Hsuan	RIKEN CEMS	Antiferromagnetic nuclear spin helix and topological superconductivity in $^{13}\text{C}$ nanotubes
Q-8	MATSUO Sadashige	University of Toky	Equal-spin Andreev Reflection between Spin-resolved Quantum Hall Bulk State and Superconductor
Q-9	STANO Peter	RIKEN CEMS	Fractional charge in one-dimensional quantum dots array
Q-10	BARKER Joseph	IMR, Tohoku University	Atomistic spin dynamics with a semi-quantum thermostat
Q-11	IBA Satoshi	AIST	Development of (110) GaAs quantum wells for emission layers of spin-controlled lasers
Q-12	CIRIO Mauro	RIKEN CEMS	Ground State Electroluminescence
Q-13	KUROYAMA Kazuyuki	University of Tokyo	Single photon-electron pairs generation from polarization entangled photon pairs
Q-14	OTSUKA Tomohiro	RIKEN CEMS	Charge and spin dynamics in a quantum dot-lead coupled system
Q-15	NOIRI Akito	University of Tokyo	Measuring the time dependence of a Rabi oscillation of an electron spin in a semiconductor quantum dot
Q-16	KAMATA Hiroshi	RIKEN CEMS	Transport properties of InAs nanowires on hexagonal boron nitride
Q-17	NAKAMURA Taketomo	ISSL, University of Tokyo	Proximity induced triplet supercurrent in Nb/(In, Fe)As/Nb junctions
Q-18	MORIYA Rai	IIS, University of Tokyo	Construction of van der Waals magnetic tunnel junction using ferromagnetic layered dichalcogenide
Q-19	SUZUKI Michi-To	RIKEN CEMS	Cluster-multipole-driven Anomalous Hall Effect in antiferromagnets
Q-20	GIAVARAS Giorgos	RIKEN CEMS	Spin resonance effects in parallel-coupled quantum dots
Q-21	FUJIMOTO Junji	ICR, Kyoto University	Effects of skew scattering on non-dissipative transport properties
Q-22	SAWAHATA Hikaru	Kanazawa University	Large Chern number in films of transition metal oxides
Q-23	ALLISON Giles	RIKEN CEMS	Lowering electron temperature for measurement of spin relaxation in quantum dots
Q-24	BOJESEN Troels	RIKEN CEMS	Quantum Monte-Carlo study of quantum spin ice under a [111] magnetic field
Q-25	NAKAJIMA Takashi	RIKEN CEMS	High-Fidelity Readout of Two-Spin Correlations Using a Metastable Charge State in Triple Quantum Dots
Q-26	TAKEDA Kenta	RIKEN CEMS	Centre resonance frequency shift of a strongly driven silicon quantum dot spin qubit
Q-27	YONEDA Jun	RIKEN CEMS	High-fidelity spin control in an enriched Si/SiGe quantum dot with a micromagnet
Q-28	NAKOSAI Sho	RIKEN	Magnetic Analogue of Superconductivity in Quantum Spin Ice
Q-29	MARX Marian	University of Tokyo	Hybrid cQED architecture as a model system for non-equilibrium physics in condensed matter
Q-30	ITO Takumi	University of Tokyo	Detection and control of the charge states of a quintuple quantum dot in a scalable multiple quantum dot architecture



本規約は、前項の規約並びにアントレーニングセンターの規則並びに一概要を記載する。本規約は、アントレーニングセンターの規則並びに一概要を記載する。



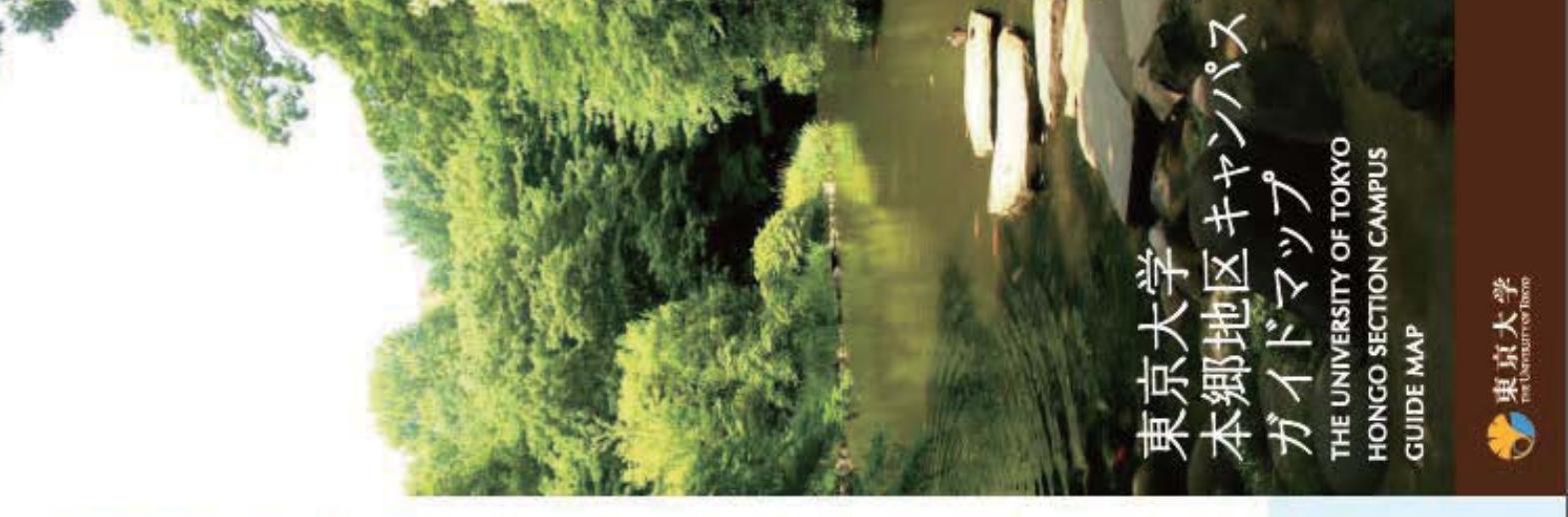
Shops & Services  
商店



Restaurants



Shops & Services				
■ 先店 Campus Store	Weekdays 09:30 21:30	Sat. 10:00 17:30	Sun/Hols 10:00 17:30	
生活第一 蔦屋書店 Cafe-store No.2	10:00	-	-	
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蔦屋書店 Cafe-store in Yopl station	10:00	-	-	
蔦屋書店 アリオ川口	10:00	-	-	
アリオ川口 Ariane shop K&Shopゲートデン K-Shop Gates	10:00 08:00	-	24 hours Open 24 Hours	
ASUNARO(アスナロ) Ariane shop	10:00 16:30	-	-	
■ 文具・パソコン等 Stationery, Computer Accessories etc.				
生活第一 蔦屋書店 Cafe-store No.1	10:00 18:00	-	-	
蔦屋書店 Bureaux	10:00 16:30	-	-	
■ トラベルセンター— Travel Center	Weekdays 10:00 19:00	Sat. 10:00 17:30	Sun/Hols 10:00 -	
セレクトペブルセンター— Travel agent	19:00	-	-	
■ 本賣店・駒木店 Bookstore Bookshelves	Weekdays 10:00 13:00 16:00 16:30	Sat. 10:00 13:00 16:00 -	Sun/Hols 10:00 13:00 16:00 -	
駒木書店 Kochikubo-ten	10:00 13:00 16:00 16:30	-	-	
花屋 Hair Salon	Weekdays 10:00 13:00 16:00 16:30	Sat. 09:00 10:00 13:00 16:30	Sun/Hols 10:00 13:00 16:00 -	
KYUDOKO Kireba リ・リーフ Rei-Sain "leaf"	10:00 13:00 16:00 16:30	-	-	
花屋 Florist	Weekdays 09:00 20:00	Sat. 09:00 10:00	Sun/Hols 09:00 10:00	
花屋 Florist	10:00 13:00	-	-	
写真 Photo Studio	Weekdays 10:00 13:00	Sat. - <td>Sun/Hols -<td></td></td>	Sun/Hols - <td></td>	
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□ コンビニエンスストア Convenience Store	Weekdays 09:00 18:00 20:00 21:00	Sat. 09:00 10:00 13:00 14:00	Sun/Hols 09:00 10:00 13:00 14:00	
ローソン 安田喫茶店 / 飯塚門店 LAWSON Anza Kitacon / Iimatsu-mon Store	09:00 18:00 20:00 21:00	-	-	
ローソン 安田喫茶店 LAWSON Anza Kitacon	09:00 18:00	-	-	
ローソン 医院薬局 LAWSON Family Hospital Store	10:00 19:00	-	-	
ローソン 食材店 LAWSON Family of Nutritious Friends Store	10:00 19:00	-	-	
ローソンスクランチ工場 LAWSON Results of Engineering Hidet Store	07:30 21:30	07:10 21:30	07:30 21:30	
□ 銀聯ATM Bank ATM (Automatic Teller Machine)	Weekdays 09:45 16:30 20:00 21:00	Sat. 09:45 16:30 - <td>Sun/Hols 09:45 16:30 -<td></td></td>	Sun/Hols 09:45 16:30 - <td></td>	
銀聯ATM Bank ATM (Automatic Teller Machine)	09:45 16:30 20:00 21:00	-	-	
郵便局 Post Office	Weekdays 09:00 17:00 09:00 16:00 20:00 21:00	Sat. 09:00 17:00 09:00 16:00 20:00 21:00	Sun/Hols 09:00 17:00 09:00 16:00 20:00 21:00	
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下り Shidai			宇都宮駅東側行 / 東京駅北口行 / 東京駅南口行 / 東京駅西口行	
新規木工店前 Mokuchi-nai			新規木工店前行 / 東京駅北口行 / 東京駅南口行 / 東京駅西口行	



# TAKEDA HALL

THE UNIVERSITY  
OF TOKYO

東京大学 武田ホールへのアクセス  
 ●地下鉄 千代田線「根津駅」1番出口徒歩5分  
 ●地下鉄 南北線「東大前駅」1番出口徒歩10分  
 ●地下鉄 大江戸線・丸ノ内線「本郷三丁目駅」  
 徒歩25分

浅野キャンパス内 武田先端知ビル 5階  
 武田ホール

※Please smoke in the smoking area  
  
 喫煙場所・smoking area  
 キャンパス内では指定された喫煙場所以外は禁煙です



Oct 12 (Wed)		Oct 13 (Thurs)		Oct 14 (Fri)		Oct 15 (Sat)	
9:00	8:30-9:15 Registration & Opening						
W1	9:15-10:00 Kang Wang	T1	9:00-9:45 Yoshinori Tokura	F1	9:00-9:45 Sam Carter	S1	9:00-9:45 Tristan Meunier
10:00	10:00-10:30 YoshiChika Otani	T2	9:45-10:30 Christopher Marrows	F2	9:45-10:15 Akira Oiwa	S2	9:45-10:15 Seigo Tarucha
	10:30-11:00 Break		10:30-11:00 Break		10:15-10:30 Break		10:15-10:45 Break
11:00	11:00-11:45 Juan Carlos Rojas Sanchez	T3	11:00-11:45 Vladislav Demidov	F3	10:30-11:15 Matthew Sellars	S3	10:45-11:30 Bill Coish
W3				F4	11:15-11:45 Yasunobu Nakamura	S4	11:30-12:00 Yoshiro Hirayama
12:00	11:45-12:15 Masashi Shiraishi	T4	11:45-12:15 Gen Tatara	F5	11:45-12:15 Franco Nori	S5	12:00-12:45 Menno Veldhorst
W5	12:15-13:00 Felix Casanova	T5	12:15-13:00 Theo Rasing		12:15-13:45 Photo + Lunch		
13:00	13:00-14:30 Lunch		13:00-14:30 Lunch	F6	13:45-14:30 Christian Schönenberger		12:45-14:15 Lunch
14:00				F7	14:30-15:15 Charles M. Marcus	S6	14:15-14:45 Kouichi Sembra
W6	14:30-15:15 Se Kwon Kim	T6	14:30-15:15 Timothy Phung		15:15-15:30 Break	S7	14:45-15:30 Takis Kontos
15:00	15:15-15:45 Takahiro Moriyama	T7	15:15-15:45 Shuichi Murakami	F8	15:30-16:00 Russell Deacon		15:30-16:00 Break
W7				F9	16:00-16:30 Daniel Loss	S8	16:00-16:45 Hongqi Xu
16:00	15:45-16:15 Break		15:45-16:15 Break	F10	16:30-17:15 Silvano De Franceschi	S9	16:45-17:15 Yukio Tanaka
W8	16:15-17:00 Hyunsoo Yang	T8	16:15-17:00 Jairo Sinova				Closing & Departure Tarucha
17:00	17:00-17:30 Eiji Saitoh	T9	17:00-17:45 Dieter Weiss				
W9					17:15-18:45 Poster Session		
18:00	17:30-18:15 Xiaofeng Jin						Move to Banquet
W10							
19:00			17:45-19:45 Poster Session : Bierstube				
20:00							19:00-21:00 Banquet
21:00							