



# The 4th Emallia Conference 2018

Hokkaido Univ. - Pusan Univ. - RIKEN Symposium



Hokkaido Univ., 23 – 25<sup>th</sup> July 2018

23th July 2018 (1st day)

	Talk No.	Name	Time(min)	Title
9:40 ~ 9:45	Greetings	Atsushi Kawamoto	5	
9:45 ~ 10:25	Pre-seminar	Fabrice Bert (Lab. Phys. Sol. Univ. Paris-sud)	40	Magnetic Resonance Experiments as a Probe of the Local Electron Properties of Materials
10:25 ~ 10:35		Break	10	
Session 1		Chair : Wataru Kohno (HU)		
10:35 ~ 11:15	Invite1	Hiroyuki Yamase (NIMS)	40	High- $T_c$ Mechanism of Iron-Based Superconductors
11:15 ~ 11:35	1	Seojin Yang (PNU)	20	Effects of Variant Environment in NiO System
11:35 ~ 11:55	2	Kim Sunghyun (Riken)	20	ESR Study of the Triangular Lattice System $X[\text{Pd}(\text{dmt})_2]_2$
11:55 ~ 12:15	3	Takuya Matsumoto (HU)	20	Nonreciprocal Magnon Excitations on a Breathing Kagome Lattice
12:15 ~ 12:35	4	Taewon Min (PNU)	20	Combined DFT and STM Studies of SnSe and $\text{SnSe}_{1-x}\text{S}_x$ Alloys
12:35 ~ 13:25		Lunch	50	
Session 2		Chair : Shusei Mizuta (HU)		
13:25 ~ 14:05	Invite2	Jaekwang Lee (PNU)	40	First-Principle Studies of Complex Oxide Interface
14:05 ~ 14:25	5	Lee Taehoon (Riken)	20	Multi-Frequency ESR Studies of $\pi$ - $d$ Molecular Conductor $\lambda$ -(STF) $_2$ FeCl $_4$
14:25 ~ 14:45	6	Akimitsu Kirikoshi (HU)	20	Many-body Effects in Bose-Einstein Condensates at Finite Temperature
14:45 ~ 15:05	7	Hikaru Uchida (HU)	20	Standard Model and Grand Unified Theory
15:05 ~ 15:25	8	Yuki Kariyazono (HU)	20	Particle Physics in String Theory
15:25 ~ 15:45	9	Tadashi Sasaki (HU)	20	Contribution to the Power Spectrum from Curvature and Radiation during Pre-Inflation Era
15:45 ~ 16:05		Break	20	
Session 3		Chair : Yuto Ishii (HU)		
16:05 ~ 16:25	10	Jinho Byun (PNU)	20	First-Principles Modeling of Electron Tunneling through Ferroelectric Tunnel Junction
16:25 ~ 16:45	11	Sera Jeon (PNU)	20	Corrugation Engineered Out-of-Plane Polarization in 2D MoTe $_2$
16:45 ~ 17:05	12	Jinwoong Hwang (PNU)	20	Emergence of Kondo Resonance in Graphene Intercalated with Cerium
17:05 ~ 17:25	13	Megumi Yatsushiro (HU)	20	Odd-Parity Multipoles and Magneto-Current Effect
17:25 ~ 17:45	14	Fahmi Astuti (Riken)	20	Study on the Magnetic Properties of $\pi$ -Electron in the Anionic Magnetism CsO $_2$
17:45 ~ 18:25	Invite3	Yutaka Tobita (HSU)	40	Finite-Size Corrections to Fermi's Golden Rule



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Hokkaido Univ., 23 – 25<sup>th</sup> July 2018

24th July 2018 (2nd day)

Talk No.	Name	Time(min)	Title
Session 5			
Chair : Taewom Min (PNU)			
9:00 ~ 9:40	Invite4 Tadaaki Nagao (NIMS)	40	Exploring New Materials and Surface Functionalization for Infrared Plasmonics Applications
9:40 ~ 10:00	15 Marie Ohuchi (HU)	20	Vortex-Charging in the Abrikosov Lattice
10:00 ~ 10:20	16 Hai Dang Ngo (NIMS)	20	Fabrication and Characterization of Sputter Iron-Based Film for Energy Applications
10:20 ~ 10:40	17 Ying Wang (MIT)	20	The Electric Specific Heat in the Superconducting State of a Bismuth Sulfide Superconductor
10:40 ~ 10:50	Break	10	
Session 6			
Chairs : Yuto & Wataru (HU)			
10:50 ~ 12:10	Poster	80	
12:10 ~ 13:00	Lunch	50	
Session 7			
Chair : Muhammad Redo Ramadhan (Riken)			
13:00 ~ 13:40	Invite5 Haeyong Kang (PNU)	40	Application of Graphene and Carbon Nanotube-based Heterostructures
13:40 ~ 14:00	18 Cristopher Chune (HU)	20	Introduction to Superstring Theory
14:00 ~ 14:20	19 Orjan Sele Handegard (NIMS)	20	Exploring the Optical Properties of Bismuth Nano-/Microstructures
14:20 ~ 14:40	20 Minhee Kang (PNU)	20	Electron-Electron Interaction in Graphene Decorated with Ytterbium
14:40 ~ 15:20	Invite6 Naoki Momono (MIT)	40	The Study of Electronic Charge Order in a Bismuth Based Cuprate Superconductor Using Scanning Tunneling Microscopy/Spectroscopy
15:20 ~ 15:40	Break	20	
Session 8			
Chair : Sehwan Song (PNU)			
15:40 ~ 16:00	21 Ji-Eun Lee (PNU)	20	Observation of the Chemical Potential Shift in SnSe by Ta Adsorption
16:20 ~ 16:40	22 Sangkyun Ryu (PNU)	20	Possible Interfacial Magnetism in Nd <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> Multilayers
16:40 ~ 17:00	23 Lien Nguyen Phuong (PNU)	20	Enhancement of Magnetic Properties in m-type Sr-Hexaferrites
17:00 ~ 17:20	24 Muhammad Redo Ramadhan (Riken)	20	Contribution of Quantum Effects on the Muon Site Calculation of La <sub>2</sub> CuO <sub>4</sub>
17:20 ~ 18:00	Invite7 Noriaki Matsunaga (HU)	40	New $\pi$ - d Interaction Systems in the Organic Conductors
18:30 ~ 20:30	Banquet		



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~ DC mid-term presentations ~



Hokkaido Univ. 25<sup>th</sup> July 2018, 9:30-15:00

25th July 2018 (3rd day)

	Talk No.	Name	Time(min)	Title
Session 9	Chair : Isao Watanabe (Riken)			
9:30 ~ 10:30	25	Irwan Ramli (Riken)	60	Study of Microscopic Magnetism in $\text{YBa}_2\text{Cu}_3\text{O}_6$ by $\mu\text{SR}$ and DFT
10:30 ~ 11:30	26	Julia Angel (Riken)	60	Magnetically Ordered States in Hole-Hoped Pyrochlore Iridate $\text{Y}_2\text{Ir}_2\text{O}_7$
11:30 ~ 13:00		Lunch	90	
Session 10	Chair : Tadaaki Nagao (NIMS)			
13:00 ~ 14:00	27	Doan Tung Anh (NIMS)	60	Manipulating Artificial Plasmonic Heterostructures to Control Spectrally Selective Absorption and Emission in the Infrared Region
14:00 ~ 15:00	28	Manpreet Kaur (NIMS)	60	Exploring Optical and Thermal Properties of Non-Noble Metal Plasmonic Nanostructures



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~ Poster Session ~



Hokkaido Univ. 24<sup>th</sup> July 2018, 10:50-12:10

Talk No	Name	Title
1	Yuto Ishii (HU)	Competing magnetic phases emerged under magnetic field in triangular lattice dimer $\text{Cs}_3\text{Fe}_2\text{Cl}_9$
2	Wataru Kohno (HU)	Ground-State Wave Function of the Fermion-Boson Mixtures with Fermion-Boson Interactions
3	Akinari Kohriki (HU)	Magnetization Measurement under Electric Current on $\text{Ce}(\text{Ru}_{1-x}\text{Rh}_x)_2\text{Al}_{10}$ ( $x=0, 0.05$ )
4	Muhammad Zafur (HU)	Charge Redistribution in Dirty type-II Superconductors due to Impurity Scattering in the T-matrix
5	Sho Kubo (HU)	Dielectric Relaxation Processes in Sugar and Sugar Alcohols
6	Shusei Mizuta (HU)	Electronic Superstructures in High- $T_c$ Cuprate $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ : an STM/STS Study
7	Takehisa Okada (HU)	Magnetic Properties of Perfect Kagome Lattices in $\text{YCu}_3(\text{OH})_6\text{Cl}_3$
8	Masashi Sawada (HU)	NMR Study of $\lambda$ -( $\text{ET}$ ) $_2\text{GaCl}_4$ Under Pressure
9	Yuta Mimura (HU)	Motivation for Supersymmetry
10	Seiya Yamada (HU)	Domain Wall
11	Masataka Yamamoto (HU)	Peculiar Magnetization Reversal of $\text{TbNiC}_2$
12	Satoshi Kawaguchi (HU)	Electronic and Magnetic Properties of $\lambda'$ - ( $\text{BEDT-STF}$ ) $_2\text{GaBr}_4$
13	Yoshiaki Sasaki (HU)	Electronic Properties in SDW Phase of Quasi-One-Dimensional Organic Conductor ( $\text{DMET-TTF}$ ) $_2\text{AuBr}_2$
14	Takeaki Saito (HU)	Ultrasonic Study of Quadrupolar Response in $\text{CeTe}$ under Hydrostatic Pressure
15	Atsushi Nomura (HU)	Superconductivity in Cu-doped $\text{TaSe}_3$ : Relationship between Superconductivity and Emerging Charge Density Wave
16	Sehwan Song (PNU)	Thickness Dependent Magnetic Properties of $\text{FeRh/Mg}$ Films
17	Yesul Choi (PNU)	Various Physical Properties of $\text{VO}_2$ Film by Controlling Deposition Temperature
18	Suci Winarsih (Riken)	Investigation of Nano-Sized Effects on the Magnetic Properties of $\text{La}_2\text{CuO}_4$ by Using $\mu\text{SR}$
19	Muhamad Darwis Umar (Riken)	An Approach from $\mu\text{SR}$ to a Spin-Gap State in the Underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$
20	Harison bt Rozak (Riken)	$\mu\text{SR}$ Studies on the Electron Motion in DNA Molecule

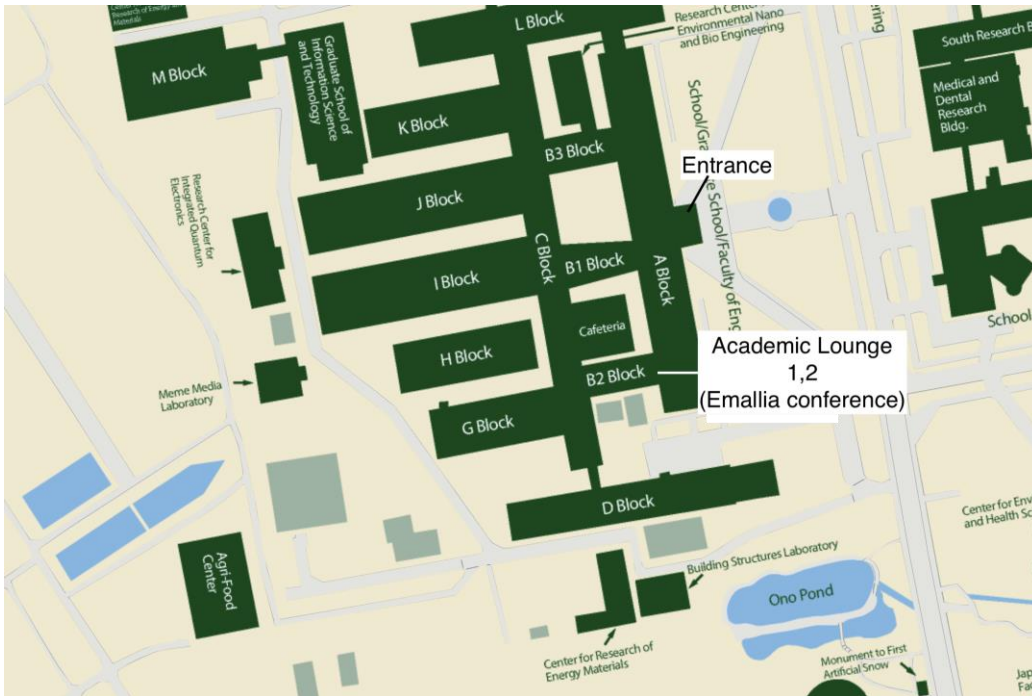


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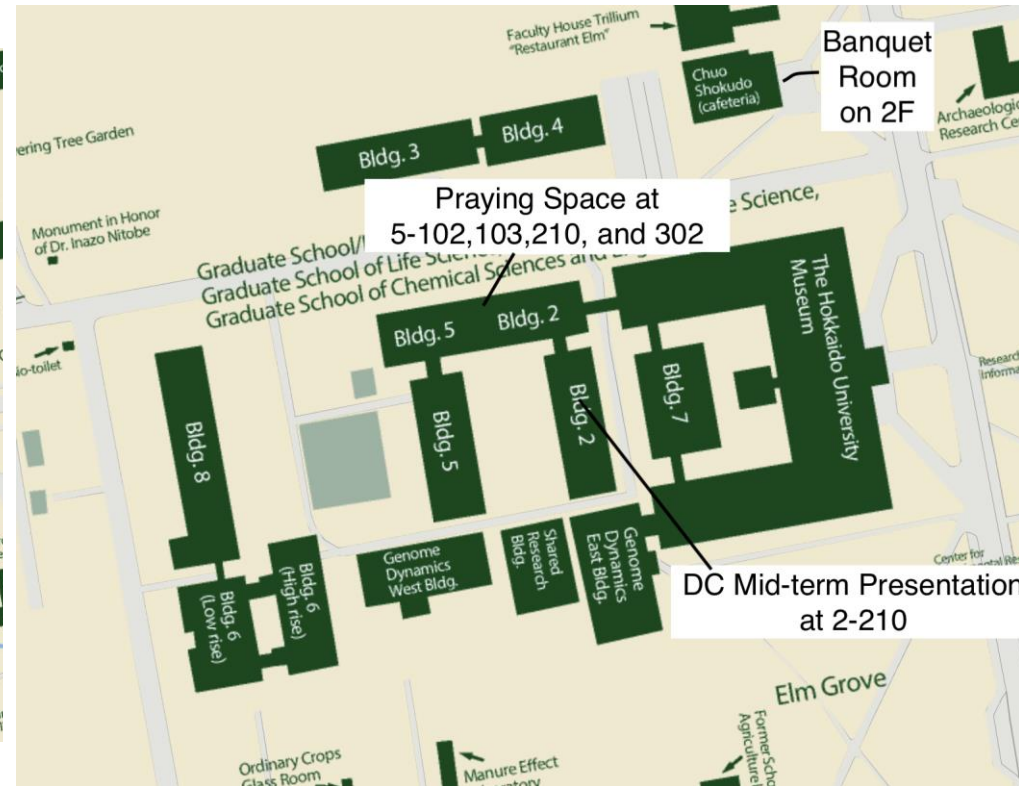
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## Map of the places for the 4th Emallia conference



<https://www.global.hokudai.ac.jp/maps/?p=sapporo>



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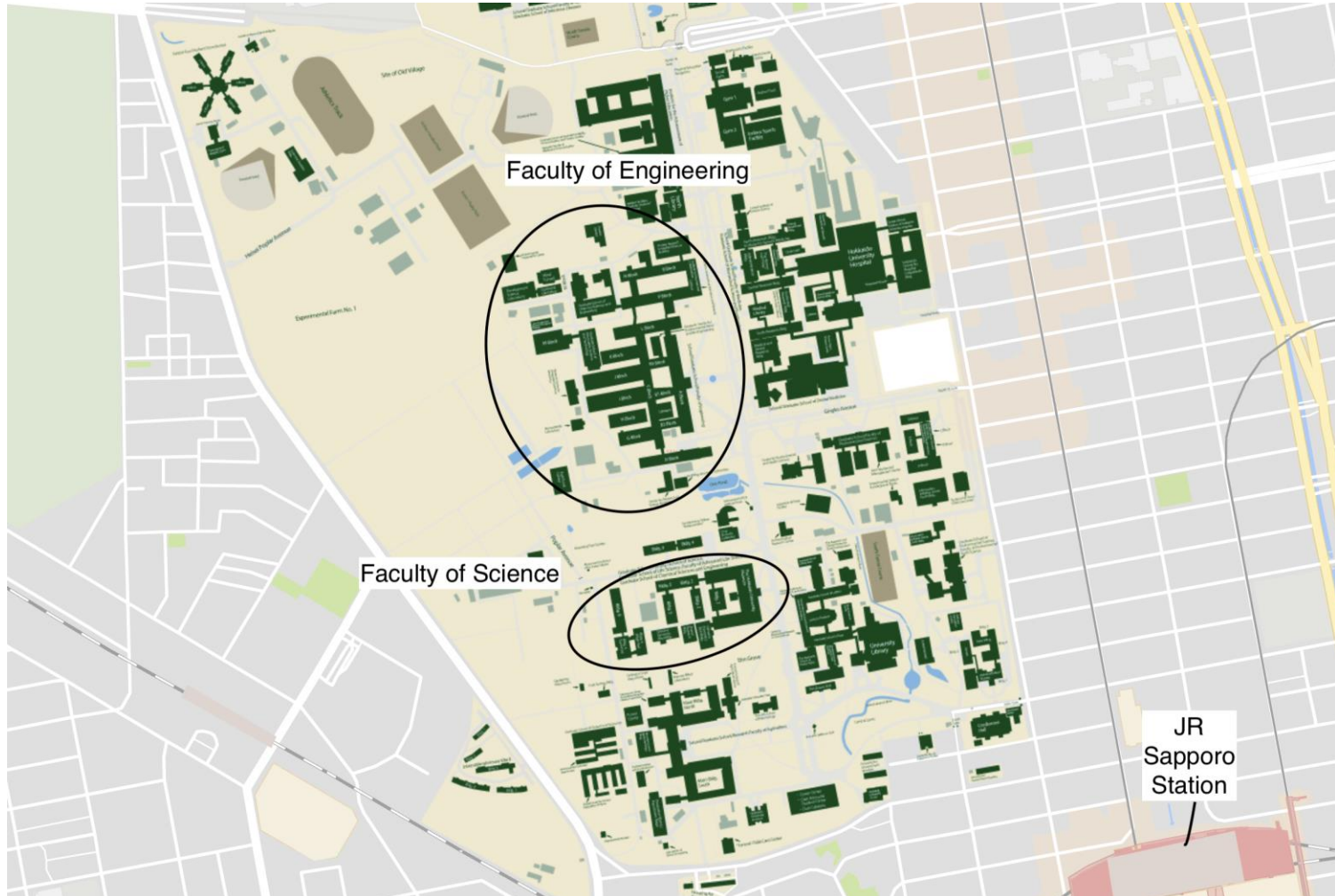


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## Map of the Hokkaido Univ.



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