

# ICC-IMR Workshop on Novel Material Science by Neutron Scattering

## - Polarization Analysis & Cross-Correlation Method -

A Satellite Workshop of 1st AOCNS

Date: 18th-19th, November, 2011

Place: Lecture Hall, Bldg 2, Institute for Materials Research, Tohoku Univ. (18-Nov)

Seminar Room of WPI, Tohoku Univ. (19-Nov.)

Organizer : Center of Neutron Science for Advanced Materials, Institute for Materials Research, Tohoku University

### Program

Discussion time : 10min.

18-Nov	
13:30 – 13:35	Opening Kenji Ohoyama (IMR)
Session I: Polarized Neutron Spectroscopy	Chairman: T.J. Sato (ISSP, Univ. Tokyo)
13:35 – 14:05	<b>M. Hagen (SNS)</b> “Constructing and Commissioning the Hybrid Polarized Beam Spectrometer (HYSPEC) at SNS“ (20min.+10min)
14:05 – 14:35	<b>I. Zaliznyak (BNL)</b> : “New science opportunities using HYSPEC” (20min.+10min)
14:35 - 15:05	<b>K. Ohoyama (IMR, Tohoku Univ.)</b> “Polarized Neutron Spectrometer Project in J-PARC” (20min.+10min)
15:05 – 15:35	<b>H. Hiraka (IMR, Tohoku Univ.)</b> “Magnetic excitations in antiferromagnetic metal (Mn,Fe) <sub>3</sub> Si” (20min.+10min)
Coffee Break 20min	
Session II Cross Correlation Method	Chairman: K. Iwasa (Tohoku Univ.)
15:55-16:35	<b>S. Rosenkranz (Argonne)</b> “Efficient Elastic Diffraction Utilizing the Cross Correlation Technique” (30min.+10min)
16:35-17:05	<b>T. Sakuma (Ibaraki Univ.)</b> “Diffuse Neutron Scattering Study of Solid State Ionics” (20min.+10min)
17:05-17:35	<b>K. Tomiyasu (Tohoku Univ)</b> “Development of cross-correlation method towards white-beam inelastic neutron scattering “ (20min.+10min)
18:30-	Banquet

**Caution: The Place is Different on 19<sup>th</sup>-Nov.**

19-Nov (Place : Seminar Room of WPI-AIMR Main Building (2 <sup>nd</sup> Floor) )	
Session III: Material Science	Chairman: S. Shamoto (JAEA)
9:00- 9:30	<b>T. Arima (Univ. Tokyo)</b> "Low-energy excitations in multiferroics" (20min.+10min)
9:30-10:00	<b>Y. Tabata (Kyoto Univ.)</b> "Spin correlations in geometric frustrated magnets: Localized and itinerant electron systems" (20min.+10min)
10:00-10:30	<b>T. Masuda (ISSP, Univ. Tokyo)</b> (20min.+10min) "Spin nematic correlation in frustrated ferromagnetic chain"
Coffee Break 15min.	
Session IV: Novel Materials Science	Chairman: M. Takeda (JAEA)
10:45-11:15	<b>K. Takanashi (IMR, Tohoku Univ.)</b> "Spin Current and Spintronics" (20min.+10min)
11:15-11:45	<b>T. Ogawa (Tohoku Univ.)</b> "Present status of nanoparticle-based material for magnetic devices- Expectation and roles of neutron scattering -" (20min.+10min)
11:45-12:15	<b>T. Fukumura (Univ. Tokyo)</b> "Room temperature ferromagnetism in dilute-doped oxide semiconductors" (20min.+10min)
Lunch	
Session V: Novel Technique	Chairman : H.M. Shimizu (KEK)
13:30-14:00	<b>H. Nojiri (IMR, Tohoku Univ.)</b> "Neutron Diffraction Experiments in Pulsed High Magnetic Fields" (20min.+10min)
14:00-14:30	<b>T. Shinohara (JAEA)</b> "Development of magnetic field imaging using polarized pulsed neutrons at J-PARC" (20min.+10min)
14:30-	Summary and Closing

Banquet Fee: 3000~4000JPY

Secretary:

Dr. Kenji Ohoyama

Associate Professor,

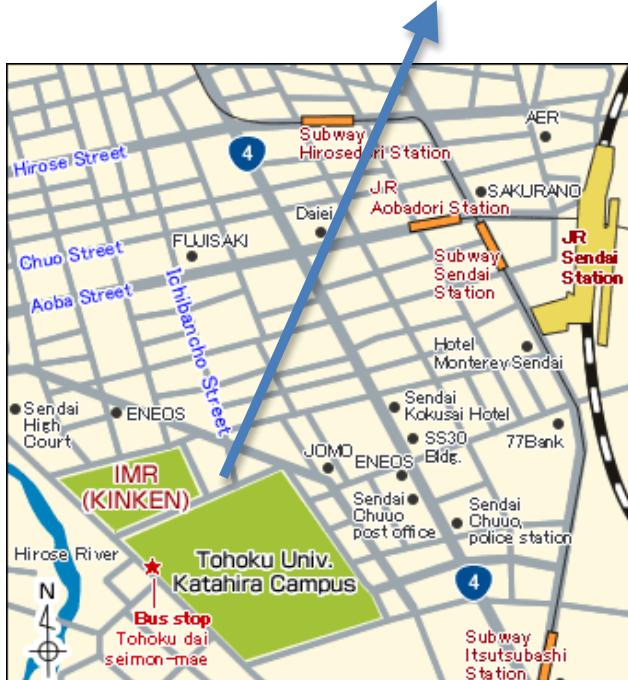
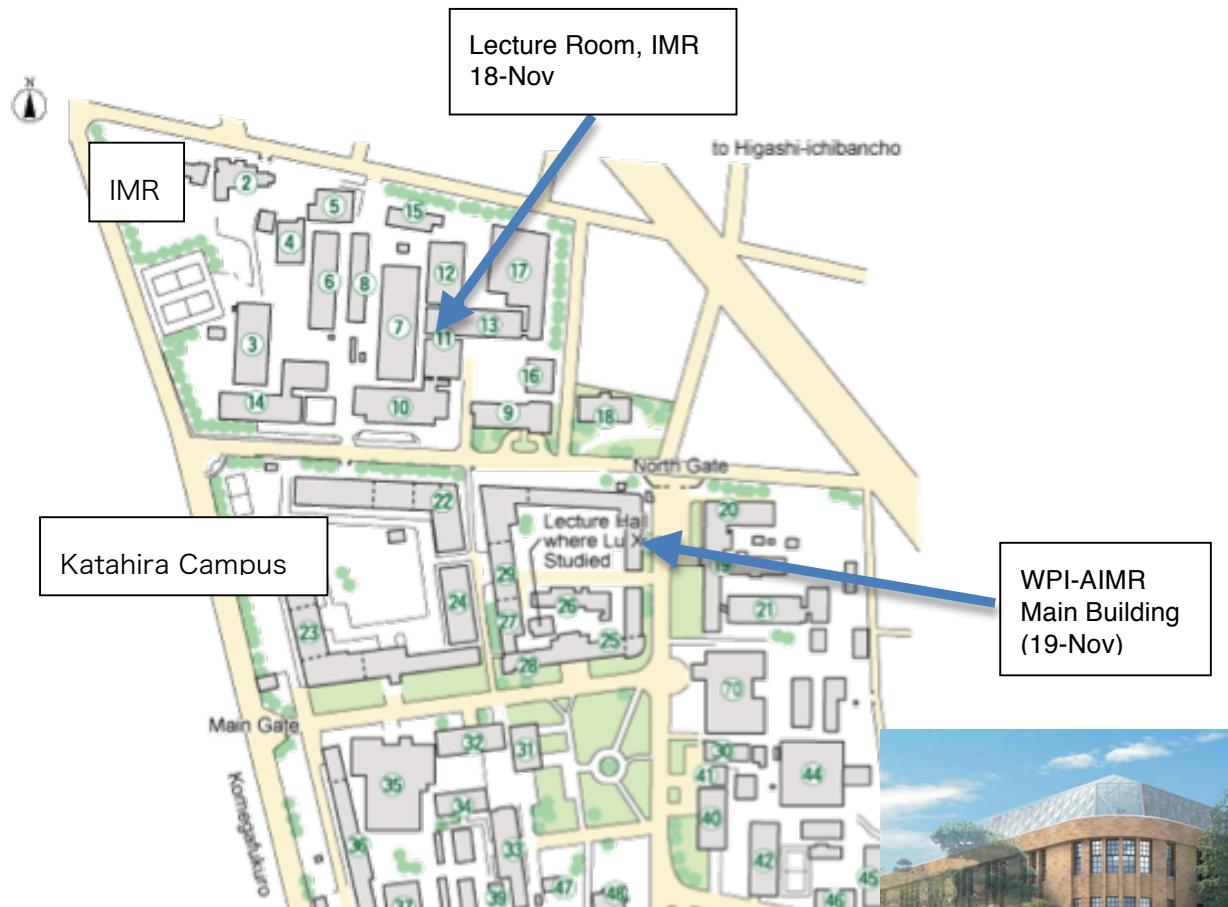
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## Venues of the workshop

18-Nov: Lecture Hall of Institute for Materials Research (IMR), Tohoku Univ.  
19-Nov: Seminar Room (2<sup>nd</sup> Floor) of WPI-AMR Main Building, Tohoku Univ.



Entrance

