

JSPS/EPSRC/CNRS Core-to-core Seminar

21-22 Nov. 2019

Open seminar @Conference Hall at School of Engineering, Tohoku University

Address: 6-6-04, Aramaki Aza Aoba Aoba-ku, Sendai, Miyagi 980-8579, Japan

21th Nov.

Time	Speaker	Institute	Title
9:25	Masaaki Niwa	Tohoku Univ.	Administrative guidance
9:30	Tetsuo Endoh	Tohoku Univ.	Welcome remark
9:35	John Robertson	U. of Cambridge	Welcome remark
9:40	Pierre Seneor	CNRS/Thales/ U-Paris-Sud	spinterface: hybridization in MTJs from molecules to 2Ds
10:10	Junsaku Nitta	Tohoku Univ.	Spin-orbit torque in epitaxial Pt/Co systems
10:40	coffee		
11:10	Yuzo Oono	U. of Tsukuba.	Spin dynamics in GaAs/AlGaAs superlattice
11:40	Makoto Kohda	Tohoku Univ.	Spin momentum locked spin manipulation in a Rashba two dimensional system
12:10	Photo		
12:20	lunch @ “Shikisai (四季彩)”		
13:00	Victor Zatzko	CNRS/Thales/U- Paris-Sud	MTJs with 2D semiconductors: TMDCs
13:30	Mikihiko Oogane	Tohoku Univ.	TMR sensors for non-destructive inspection
14:00	Muftah Al-Mahdawi	Tohoku Univ.	Designing Sensing Layers and Signal Analysis for Low Noise Magnetic Field Sensing
14:30	Yasuhiro Hatsugai	U. of Tsukuba	Use of higher order topological phases and various boundary states
15:00	coffee		
15:30	Zhaofu Zhang	U. of Cambridge	Defects of h-BN suitable for photon emission in quantum information devices
16:00	Tomoya Ono	Kobe Univ.	DFT study on electronic structure and transport property of nanostructures
16:30	Discussion		
17:00	Adjourn		

19:00 ~ **Dinner/Discussion** “Cuvée ITOU” Sendai, Miyagi

22th Nov.

9:30	Kenji Shiraishi	Nagoya Univ.	Switching Mechanism of Future Nonvolatile Memories
10:00	Kousuke Nagashio	The Univ. of Tokyo	Purely in-plane ferroelectricity in monolayer SnS at room temperature
10:30	coffee		
11:00	John Robertson	U. of Cambridge	Depinning the Fermi level for Transitional Metal Dichalcogenide Semiconductor Contacts
11:30	Hiroshi Naganuma	Tohoku Univ.	Protecting perpendicular ferromagnetic FePd electrodes with CVD graphene
12:00	Photo		
12:10	Lunch @ “Shikisai (四季彩)”		
13:30	Tomonori Nishimura	The Univ. of Tokyo	Fermi level pinning at metal/germanium interface
14:00	Wrap up Discussion On the current research issues (Prof. Kohda, Prof. Nagashio)		
15:00	coffee		
15:30	On the next application to JSPS (Prof. Naganuma)		
16:30	Tetsuo Endoh	Tohoku Univ.	Closing remark
16:35	Pierre Seneor	CNRS/Thales/ U-Paris-Sud	Closing remark
16:40	Closing		

Special mission

Seminar minutes: Profs. M. Oogane, T. Ono

Photograph and others: Prof. M. Niwa