

Tsinghua-Tohoku Joint Workshop on Material and Spintronics Sciences

Jointly Organized by Tsinghua University and Tohoku University

Date: December 21st (Thursday), 2017

Venue: Reception Hall, 3rd Floor, Main Building, Tsinghua University

Language: English

Time	Events	
8:30-9:00	Registration	
Moderator: Guilu Long , Tsinghua University		
Opening Remarks	Prof. Qikun XUE (Vice President, Tsinghua University)	Welcome speech and Introduction of Tsinghua's Research (25 min)
	Prof. Susumu SATOMI (President, Tohoku University)	Welcome speech (10 min)
	Prof. Toshiya UEKI (Vice President, Tohoku University)	Introduction of Tohoku University (15 min)
9:00-9:50		
9:50-10:00	Photo	
10:00-10:10	Tea Break	
Keynote Speeches (Q&A)	10:10-10:45 Prof. Hideo OHNO	Spintronics for Information Processing - from low-power integrated circuits to artificial intelligence
	10:45-11:20 Prof. Ke HE	Manipulating magnetism and chiral edge state of quantum anomalous Hall system
10:10-11:20		
12:00-13:00	Lunch	
Moderator: Zhu Hongwei , Tsinghua University		
	13:30-13:50 Prof. Motoko KOTANI	AIMR's challenge based on Mathematics and Materials collaboration
	13:50-14:10 Prof. Yuanhua LIN	Advanced Materials Research and Education of Materials Science & Engineering in Tsinghua University

Materials Science 13:30-15:30	14:10-14:30 Prof. Hiroshi SUITO	Mathematical and numerical approach to biomechanics and biomaterials
	14:30-14:50 Prof. Yong XU	Exploring Topological States in Two-Dimensional Stanene
	14:50-15:10 Prof. Hiroshi YABU	Self-Organized Porous Scaffolds for Controlling Cell Adhesion and Differentiation
	15:10-15:30 Prof. Wei LI	Stripes developed at the strong limit of nematicity
15:30-15:40	Tea Break	
Spintronics 15:40-17:40	15:40-16:00 Prof. Gerrit BAUER	Who is afraid of YIG?
	16:00-16:20 Prof. Xiaozhong ZHANG	Silicon based Magnetoresistance and Non-volatile spin logic
	16:20-16:40 Prof. Junsaku NITTA	Spin-orbitronics in semiconductor nano-structures
	16:40-17:00 Prof. Yayu WANG	Tuning quantum transport in magnetic topological insulators
	17:00-17:20 Prof. Takafumi SATO	Electronic structure of novel topological materials studied by spin-ARPES
	17:20-17:40 Prof. Shuyun ZHOU	Electronic structure and spin structure of PtSe ₂ - from bulk crystals to monolayer film
Moderator: Guilu Long , Tsinghua University		
17:40-17:50	Concluding Remarks	