

Symposium (20th – 22nd Feb, 2017)

“Topological Phases and Functionality of Correlated Electron Systems (TPFC2017)”

20th Monday		21st Tuesday		22nd Wednesday	
9:00~10:00	Registration	9:00~9:35	Takashi Oka (MPI-PKS&CPFS) <i>Floquet engineering and control of topology in solid state systems</i>	9:00~9:35	Yoshinori Tokura (RIKEN) <i>Magnetoelectric responses from topological magnets</i>
10:00~10:10	Opening	9:35~10:10	Chair: Achim Rosch Naoto Nagaosa (U. Tokyo) <i>Nonlinear and nonreciprocal responses of topological matters</i>	9:35~10:10	Chair: Yoshichika Otani Geoffrey Beach (MIT) <i>Room-Temperature Magnetic Skyrmions in Metallic Ferromagnets</i>
10:10~10:45	Leon Balents (UCSB) <i>Interplay of real and momentum space topological defects</i>				
10:45~11:20	Chair: Satoru Nakatsuji YoshiChika Otani (U. Tokyo) <i>Spin Hall Effects in a Chiral Antiferromagnet Mn3Sn</i>	10:40~11:15	Chair: Allan H. MacDonald Istvan Kezsmarki (Budapest U) <i>Neel-type skyrmions in multiferroic lacnuar spinels</i>	10:40~11:15	Chair: Leon Balents N. Peter Armitage (JHU) <i>Quantized Faraday and Kerr Rotation and Axion Electrodynamics of a 3D Topological Insulator</i>
11:20~11:55	Ryotaro Arita (RIKEN) <i>Cluster multipole theory for the anomalous Hall effect in antiferromagnets</i>	11:15~11:50	Chair: Allan H. MacDonald Masaaki Shimozaawa (U. Tokyo) <i>Anomalous thermal and magnetic properties of the chiral antiferromagnet Mn3Sn</i>	11:15~11:50	Chair: Leon Balents Allan MacDonald (U. Texas) <i>Influence of electron-electron interaction on the QSH/NI phase transition</i>
11:55~14:00	Lunch	11:50~12:20	Group Photo	11:50~14:00	Lunch
14:00~14:35	Chair: Norio Kawakami Yong Baek Kim (U. Toronto) <i>Quantum spin liquid and anomalous Hall effect in correlated topological materials</i>	12:20~13:20	Poster Preview (Lunch box provided)	14:00~14:35	Chair: Oleg Tchernyshyov Yaroslav Tserkovnyak (UCLA) <i>Q(a)HE in TI's and graphene: The magnetization dynamics perspective</i>
14:35~15:10	Chair: Norio Kawakami Collin Broholm (JHU) <i>Disorder versus fractionalization in frustrated quantum magnets</i>	13:20~15:20	Poster session	14:35~15:00	Chair: Oleg Tchernyshyov Hiroyuki Fujita (U. Tokyo) <i>Generating skyrmionic defects with optical vortex</i>
15:10~15:40	Coffee break	15:20~15:50	Coffee break	15:00~15:30	Coffee break
15:40~16:15	Chair: Collin L. Broholm Yoshifumi Tokiwa (U. Augsburg) <i>Thermal conductivity of exotic elementary excitations in quantum spin ice</i>	15:50~16:25	Chair: Luis Balicas Clifford Hicks (MPI-CPFS) <i>Lifting lattice symmetries with uniaxial pressure</i>	15:30~16:05	Chair: Masaki Oshikawa Luis Balicas (NHMFL) <i>Impurity dependent superconductivity, Berry phase and bulk Fermi surface of the Weyl type-II semi-metal candidate MoTe2</i>
16:15~16:50	Chair: Collin L. Broholm Simon Trebst (U. Cologne) <i>Spin liquids and (Majorana) metals</i>	16:25~17:00	Chair: Luis Balicas Norio Kawakami (Kyoto U.) <i>Bulk/Edge Properties of Topological Mott Insulators</i>	16:05~16:30	Chair: Masaki Oshikawa Hiroaki Ishizuka (U. Tokyo) <i>Photocurrent in Weyl Semimetals from Electromagnetic Induction in Momentum Space</i>
16:50~17:15	Chair: Collin L. Broholm Joji Nasu (Tokyo Inst. of Tech.) <i>Thermal transport in the Kitaev model</i>	17:00~17:35	Chair: Luis Balicas Wei Han (Peking U.) <i>Spin injection and inverse Edelstein effect in the surface states of topological Kondo insulator SmB6</i>	16:30~17:05	Chair: Masaki Oshikawa Achim Rosch (U. Cologne) <i>Pumping approximately integrable systems</i>
		18:00~20:00	Conference Dinner	17:05~17:15	Closing