T.P.F.C.

Symposium: TPFC 2019

Topological Phases and Functionality of Correlated Electron Systems

Feb. 18 - 20, 2019 Kashiwa, JAPAN

For a long time, magnetism has been a central subject in strongly correlated electron systems. More recently, topology led to a new classification of band insulators, namely topological insulators. Where magnetism and topology meet, we find many intriguing phenomena including emergent "relativistic" particles and multipolar degrees of freedom. The novel physics also opens up a promising direction in spintronics and other potentially practical applications. In this conference, we will explore experimental and theoretical studies on subjects

Discussion Topics:

- Multipole physics
- Novel quantum phases and quantum transport
- Quantum criticality and frustration
- Topological magnets and superconductivity
- Spintronic devices
- Antiferromagnetic spintronics
- Ultrafast spin dynamics

Venue:

Kashiwanoha Campus Station Satellite,
University of Tokyo

【Symposium】

Invited Speakers:

- Ryotaro Arita (RIKEN)
- Peter Armitage (ISSP/Johns Hopkins U.)
- Leon Balents (UCSB)
- Natalia Drichko (ISSP/Johns Hopkins U.)
- Clifford Hicks (MPI-CPS)
- Tomas Jungwirth (ASCR)
- Koji Kaneko (JAEA)
- Yong Baek Kim (U. Toronto)
- Allan H. MacDonald (UT Austin)
- Yuji Matsuda (Kyoto U.)
- Hatsumi Mori (U. Tokyo)
- Naoto Nagaosa (RIKEN)
- Yoshinori Tokura (RIKEN)
- Eiji Saitoh (U. Tokyo)
- Oleg Tchernyshyov (Johns Hopkins U.)
- Shinji Yuasa (AIST)
- Kang Wang (UCLA)

Organizers:

- Satoru Nakatsuji (ISSP, U. Tokyo)
- Yoshichika Otani (ISSP, U. Tokyo)
- Masaki Oshikawa (ISSP, U. Tokyo)
- Collin Broholm (Johns Hopkins U.)
- Hisatomo Harima (Kobe U.)
- Shinji Miwa (ISSP, U. Tokyo)
- Hiroki Wadati (ISSP, U. Tokyo)

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J-Physics

Nano spin conversion