

International Workshop

Novel Phenomena in Quantum Materials driven by Multipoles and Topology

April 9th - 10th @ [Media Hall, Kashiwa Library](#)



J-Physics



Topics

- Novel Multipolar Ordering
- Topological Spin Liquids
- Exotic Superconductivity
- Itinerant Frustration
- Quadrupolar Kondo Lattices
- Topological Kondo Insulators
- Correlated Weyl Metals
- Quantum Criticality

Registration

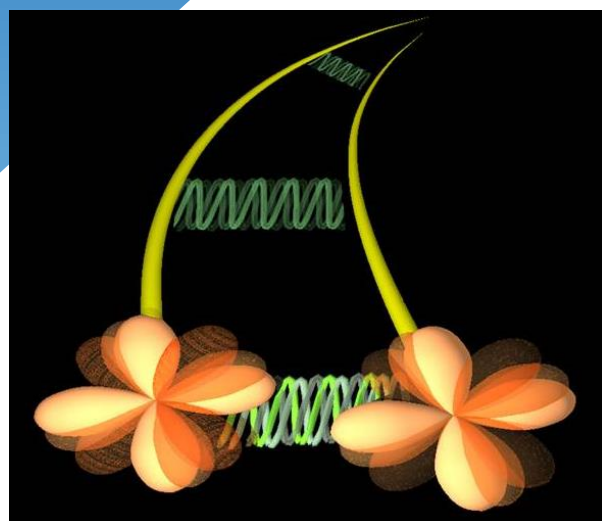
- ❑ Free for Registration.
- ❑ 4,000 yen for the conference dinner.
- ❑ Poster presentation is scheduled.

Program

(to be announced)

Invited Speakers

P. Chandra (Rutgers U.)	K. Matsubayashi (UEC)
P. Coleman (Rutgers U.)	S. Miwa (ISSP)
Y. Ran (Boston College)	T. Onimaru (Hiroshima U.)
H. Amitsuka (Hokkaido U.)	A. Sakai (ISSP)
D. Aoki (Tohoku U.)	T. Shibauchi (U. Tokyo)
S. Fujimoto (Osaka U.)	S. Suzuki (ISSP)
T. Higo (ISSP)	Y. Tada (ISSP)
Z. Hiroi (ISSP)	M. Takigawa (ISSP)
Y. Kasahara (Kyoto U.)	M. Yamada (ISSP)
H. Kobayashi (U. Hyogo)	M. Yamashita (ISSP)
T. Kondo (ISSP)	Y. Yanase (Kyoto U.)



In recent years, the study of quantum materials, in particular of strongly correlated electron systems, have been enriched by the introduction of new physics based on multipoles and topology. The workshop will bring together scientists exploring the novel phenomena in new materials, and novel functionality by using spintronics and photonics, to share the latest knowledge and to fertilize new research directions.

Scientific Coordinators

Satoru Nakatsuji (ISSP)
Masaki Oshikawa (ISSP)
Hisatomo Harima (Kobe U.)

Organization

[Quantum Materials Group](#), ISSP, U. Tokyo
[J-Physics](#), KAKENHI on Innovative Areas