

COMPUTATIONAL APPROACHES TO MAGNETIC SYSTEMS

INTERNATIONAL FOCUS WORKSHOP

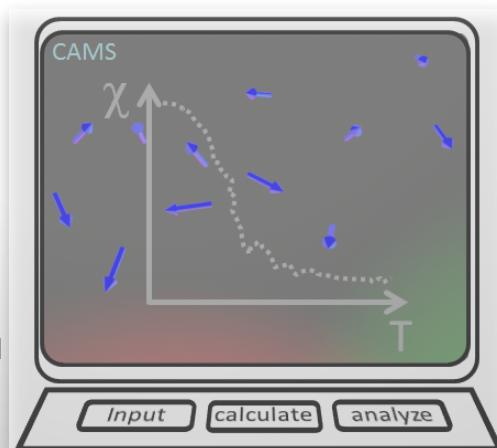
August 26 - 28, 2019

Official Event of the ICTP Asian Network *Condensed Matter and Complex Systems*

Computational approaches have been significantly improved by the development of computer hardware. Furthermore, promising new techniques and algorithms are proposed and shed new light on our understanding of magnetic systems, where interplay between various degrees of freedom enriches physics. Such notable progress can be found not only in the first-principles methodology, but also in their cross-border fields. Each method has its own strengths and weaknesses depending on the specific properties of target systems. This workshop will bring together the recent progress in these areas, thereby providing a platform to discuss the frontier issues and network for the young researchers with different technical backgrounds.

Topics include:

- ▶ Various computational methods in magnetism
- ▶ Application of computational methods to realistic systems: itinerant magnetism, strong spin-orbit systems, Kondo systems, topological systems, low dimensional systems, metal-insulator transition



To apply for participation in the Workshop, complete the online application form by June 1, 2019.

Workshop registration fee: 120,000 KRW (for all participants). Accommodation costs and meals will be covered by the PCS IBS. Limited funding is available to partially cover travel expenses.

For further information, please contact:

pcs@ibs.re.kr

Visitor Program, PCS IBS, Daejeon, Korea

Invited Speakers

Hanghui Chen (China)
Yue Chen (Hong Kong)
Hosub Jin (UNIST, Korea)
Choong Hyun Kim (Korea)
Jeongwoo Kim (Korea)
Sooran Kim (Korea)
Jaedong Lee (Korea)
Jaekwang Lee (Korea)
Kwan-Woo Lee (Korea)
SungBin Lee (Korea)
Gang Li (China)
Eun-Gook Moon (Korea)
Andriy Nevidomskyy (USA)
Hiroshi Shinaoka (Japan)
Jan Tomczak (Austria)
Alessandro Toschi (Austria)
Minh-Tien Tran (Vietnam)
Xin Wang (Hong Kong)

Scientific Coordinators

Kyoo Kim (Korea)
Bongjae Kim (Korea)
Ara Go (Korea)
Hyowon Park (USA)
Cesare Franchini (Austria)
Byung Il Min (Korea)

Organizers

Gileun Lee (Korea)

Coordinator: Dominika Konikowska (Korea)