Center for Theoretical Physics of Complex Systems

Institute for Basic Science

asia pacific center for theoretical physics

The Abdus Salam International Centre for Theoretical Physics

CONDENSED MATTER SOLITONS

INTERNATIONAL WORKSHOP

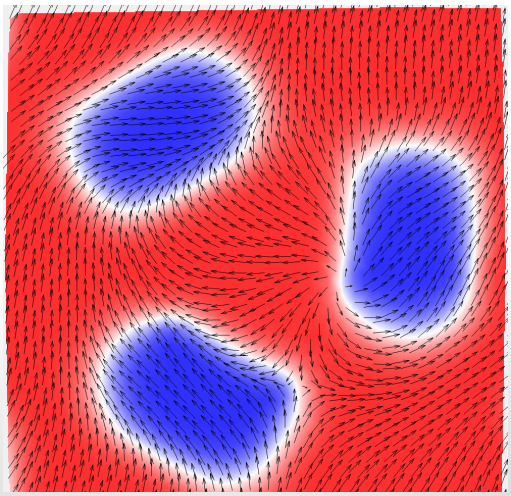
June 28 — June 30, 2023

Kick-off Network Workshop of the ICTP Asian Network *Condensed Matter, Complex Systems, and Statistical Physics*

Topological solitons are ubiquitous objects in complex condensed matter systems. The representative examples are skyrmions in magnets, vortices in superconductors, and Majorana fermions in topological superconductors. In this workshop, we would like to bring together theoretical and experimental experts on the related phenomena in quantum materials including, but not limited to magnets, superfluids, superconductors, and multiferroics. We aim to share the cutting-edge research developments in the related field and discuss the universal physics of topological solitons.

Topics include:

- Topological superfluids
- Majorana fermions & Topological materials
- Skyrmions & Spintronics
- Non-equilibrium quantum phases



To apply for participation in the Workshop, complete the online application form by May 22, 2023.

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, see pcs.ibs.re.kr
or contact the PCS Visitor Program at pcs@ibs.re.kr

Invited Speakers

Jaeyoon Choi (Korea)
Tien-Ming Chuang (Taiwan)
Yong-Joo Doh (Korea)
Kyusung Hwang (Korea)
Kab-Jin Kim (Korea)
Kyoung-Min Kim (Korea)
Young-June Kim (Canada)
Mathias Klaui (Germany)
Johannes Knolle (Germany)
Minhyea Lee (USA)
Jim Sauls (USA)
Hiromitsu Takeuchi (Japan)
Oleg Tchernyshyov (USA)
Mircea Trif (Poland)
Ji Zou (Switzerland)

Scientific Coordinators

Se Kwon Kim (KAIST, Korea)
Sukbum Chung (UOS, Korea)
Moon Jip Park (HU, Korea)
Yong-il Shin (SNU, Korea)
Jee-Hoon Kim (POSTECH, Korea)

Organizers

Gileun Lee (Korea)
Jaehee Kwon (Korea)

We also offer fellowships (Ph.D., postdoctoral, sabbatical), as well as short- and long-term visiting positions — cf. pcs.ibs.re.kr