

School and Workshop:

“Low-dimensional emergent phenomena in correlated systems and topological quantum matter”

Dear Colleagues,

We are pleased to announce the international school and workshop, *“Low-dimensional emergent phenomena in correlated systems and topological quantum matter”* Tbilisi, Georgia, 01-10 June 2019.

Organizers are: Reinhold Egger (University of Duesseldorf), George Jackeli (University of Stuttgart), Alexander Nersesyan and George Japaridze (Ilia State University, Tbilisi)

The scientific event is supported by the Volkswagen Stiftung, Shota Rustaveli Georgian National Science Foundation and the Georgian National Academy of Sciences and the Tbilisi Ilia State University.

The school and workshop will focus on topologically ordered phases of quantum matter and in particular on emergent low-dimensional quantum structures and phenomena in these materials. Topics to be discussed at the workshop will include: Quantum spin liquids, Topological superconductors and Majorana fermions, Topological insulators, Weyl and Dirac semimetals, Superconductivity in Dirac or Weyl semimetals, Low-dimensional quantum magnetism, Low-dimensional correlated fermion phases.

The aim of school and workshop is to bring together researchers working on different subjects related to topological states of matter and to facilitate their interdisciplinary collaboration through the exchange of their knowledge, skills and methods. The other aim is to give possibility for young researchers, PhD and Master students from the Caucasus region and neighboring countries to get information about this fascinating field of modern science directly from leading experts in this area.

The venue in the capital of Georgia, Tbilisi, offers a unique environment. June is the very best time to visit Georgia, warm nice weather, many possibilities to make short trips to see old historical places, to visit high mountains or the black sea area.

The registration fee of 100 Euro (50 Euro for participants younger than 36 years) to cover excursions, conference dinner and other workshop expenses will be collected as a cash payment at the workshop registration desk.

The deadline for registration is 30 April 2019.

A number of grants will be available for young researchers (under the age of 36). The grants include hotel accommodation, meal throughout the event, and the workshop fee.

For additional details, see quantum-matter.iliauni.edu.ge

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Please find attached the poster of the workshop. We invite you to forward the poster to interested colleagues, and to display it at your institution.