

Recent progress in mathematics of topological insulators

Workshop

3 – 6 September 2018, ETH Zürich, Hönggerberg, HIT E 51

Scope

From the perspective of mathematical physics, there have been in the recent years several significant advances in the description of topologically ordered phases of matter. In particular symmetry-protected, disordered, interacting and driven systems have been intensively studied. The definition of new topological indices, their classification and the transport properties of these systems has involved the development of new techniques from functional analysis to K-theory passing by quantum field theory. The aim of this workshop is to bring together researchers in the field to get an overview of these results and see the new perspectives they open.

Speakers (confirmed)

Jürg Fröhlich, Krzysztof Gawędzki, Kiyonori Gomi, Yasuhiro Hatsugai, Sebastian Huber, Alain Joye, Johannes Kellendonk, Max Lein, Giovanna Marcelli, Domenico Monaco, Christopher Mudry, Giuseppe De Nittis, Gianluca Panati, Guo Chuan Thiang, Mathai Varghese, Oded Zeitlberger

Organizers: Clément Tauber, Gian Michele Graf

More Information: <https://people.phys.ethz.ch/~tauberc/>