

Seminar on Condensed Matter Theory

Group of Theoretical Physics at the Department of Condensed Matter Physics
of Charles University has a pleasure to invite you to attend the seminar

on 18 October 2018 at 14:00

at Faculty of Mathematics and Physics of Charles University, Ke Karlovu 5, 121 16 Praha 2

Lecture Hall F2



Mgr. Jaroslav Hamrle, Ph.D.

Charles University, Faculty of Mathematics and Physics, Praha, Czech Republic

Introduction to topological materials

joined with Nanoseminar (note different time and place)

The talk introduces to topological materials, defined by presence of Dirac or Weyl nodes, provided by break of the spatial or time symmetry. In those special points of the reciprocal space, the crossing bands does not hybridize due to topological protection. Example of several material is shown. The presence of Weyl nodes in bulk implies topologically protected surface states (called Fermi arcs), where electron spin is connected to electron direction of propagation, providing tool to transfer angular momentum in devices.

