复旦大学物理系物质科学报告

Physics Department Colloquium

Physics of Weyl semimetals

(Weyl半金属物理)

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摘要: Recently a great deal of attention has been focused on 3D materials having zero-gap band structure with nontrivial topology.

The Weyl semimetal is a representative example of such materials, where the energy bands are touching at isolated points in the momentum space, and the topologically-protected surface states appear to connect these band-touching points in the k-space.

In this talk, I will argue about our recent studies on the electronic properties of Weyl semimetal, particularly from the viewpoint of the magnetic susceptibility and the magneto-transport.

We show that the topological surface states give rise to several unusual properties which cannot be understood in the conventional framework of the condensed matter physics.

Time: 2:00pm, Thursday, 2015.12.29

Location： Physics Building, Room 221B

(Cookies and coffee are served from 1:30 pm)