

Topological Insulators: Dirac Equation In Condensed Matters (Springer Series In Solid-State Sciences) By Shun-Qing Shen

By Shun-Qing Shen

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We present a short pedagogical introduction to the physics of Dirac materials, restricted to graphene and two-dimensional topological insulators. We start with

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Engineering Dirac electrons emergent on the surface of a topological insulator on a spherical surface of a topological insulator, equation is modified to

Topological insulators . A topological insulator is a material with time reversal symmetry and topologically protected surface states. These surface states

Abstract We present a general description of topological insulators from the point of view of Dirac equations. The Z_2 index for the Dirac equation is always zero

Recent developments in the emerging field of plasmonics in graphene and other Dirac systems are reviewed and a comprehensive introduction to the standard models and

Topological Insulator: Dirac equation in condensed matter Speaker: Prof Shun-Qing Shen, Hong Kong University. Date: Mon, 03/09/2012 - 4:00pm to 5:00pm. Location

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We study collective excitations in a helical electron liquid on a surface of three-dimensional topological insulator. Electron in helical liquid obeys Dirac-like

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topological insulators. In FQHE it is the electron electron interaction that makes electrons incompressible and form stable metallic edge states.^{9,10}

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Colloquium 155 Topological Insulators --Dirac Equation in Condensed Matter(Prof. Shun-Qing Shen, June 18) Submitted by admin on Tue, 2014-06-17 11:07. Colloquium 155.

This nice image of Dirac cones (from this article), in a (E, \vec{k}) graph will be an introduction for several questions, in the realm of topological insulators.

Shun-Qing Shen - TOPOLOGICAL INSULATORS: DIRAC EQUATION IN CONDENSED MATTERS (2013) jetzt kaufen. Kundrezensionen und 0.0 Sterne.

Springer, 2013. - 225 pp. In recent years, we have seen rapid emergence of topological insulators and superconductors. This field is an important advance of the well

The surfaces of certain band insulators called topological insulators can be described conveniently described by the relativistic Dirac equation for massless

A topological insulator is a material with non-trivial topological order that behaves as an insulator in its interior but whose surface contains conducting states