

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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Topological Insulators Dirac Equation in Condensed Matters. Starting from the Dirac Equation. Impurities and Defects in Topological Insulators.

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

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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.

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

Topological Insulators by Shun-Qing Shen, Topological Insulators Hardback Springer Series in Solid-State Sciences By (author) Shun-Qing Shen.

Sep 27, 2010 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

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

Shun-Qing Shen. Professor of Physics Topological Insulators: Dirac Equation in Condensed Matter. SQ Shen. Springer Series in Solid-State Sciences 174, 2012. 82: 2012:

Unified Description of Dirac Electrons on a Curved Surface of Topological Insulators topological insulator do obey a Dirac equation. The ob-

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Topological insulators is insulating in the bulk, but processes metallic states present around its boundary owing to the topological origin of the band structure.

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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