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By Shun-Qing Shen

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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 <http://adsabs.harvard.edu/abs/2010arXiv1009.5502S>

Shun-Qing Shen. Professor of Physics Topological Insulators: Dirac Equation in Condensed Matter. SQ Shen. Springer Series in Solid-State Sciences 174, 2012. 83: 2012: <http://scholar.google.com/citations?user=ZGvCd0IAAAAJ&hl=en>

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<http://www.bokus.com/bok/9783642328572/topological-insulators/>

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

<http://www.nanoscalereslett.com/content/7/1/163>

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<http://arxiv.org/pdf/1009.5502.pdf>

Berlin; London: Springer 2012 (Springer tracts in modern physics; 250) Q 111 .Er38 v.250 : QC 174.85 .I8 S89 2013 : Table of Contents .

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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}

http://phys.cts.ntu.edu.tw/workshop/2013/0902SS/lecturers/Shun_qing_Shen/Shen-11spin.pdf

Dirac Fermions in Solids: From High-T_c Cuprates and Graphene to Topological Insulators and Weyl Semimetals Annual Review of Condensed Matter Physics

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

<http://physics.aps.org/articles/v1/6>

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

http://en.wikipedia.org/wiki/Topological_insulator

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<http://arxiv.org/pdf/1502.07112.pdf>

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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

<http://www.sciencedirect.com/science/article/pii/S163107051300145X>