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By Shun-Qing Shen

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Springer Series in Solid-State Sciences Volume 174, Starting from the Dirac Equation Prof. Dr. Shun-Qing Shen (1)

http://link.springer.com/chapter/10.1007/978-3-642-32858-9_2

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

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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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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.

<http://www.physics.sjtu.edu.cn/en/events/colloquia/colloquium155>

Possible relation between the Dirac equation and the topological insulator can be seen from a solution of the bound state at the interface between two regions of posi-

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

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function with properties radically different from those of the Dirac electrons dispersive state at the Dirac can host a variety of topological

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

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

<http://www.annualreviews.org/doi/full/10.1146/annurev-conmatphys-031113-133841>

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>

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

<http://library.nd.edu/chemistry/about/recentacquisitions13/Mar28.shtml>

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>

Dirac Equation in Condensed Matters. Impurities and Defects in Topological Insulators. Shen, Shun-Qing. Springer Series in Solid-State Sciences

<http://www.springer.com/us/book/9783642328572>

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<http://ci.nii.ac.jp/ncid/BB11641609>

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<http://dspace.mit.edu/bitstream/handle/1721.1/89029/physrevb.90.081112.pdf?sequence=1>

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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

<http://iopscience.iop.org/0953-8984/26/12/123201/article>

Topological band insulators are bulk By solving the corresponding Dirac equation, Universal Probes of Two-Dimensional Topological Insulators: Dislocation

<http://www.lorentz.leidenuniv.nl/zaanen/wordpress/research/topological-insulators-3>

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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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