

# Topological Insulators: Dirac Equation In Condensed Matters: 174 (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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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

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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.

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

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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>

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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>

Topological insulators : Dirac equation in condensed matters. Shun-Qing Shen Springer series in solid-state sciences, 174 Springer, c2012

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

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

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

Dirac Fermions in Solids: From High-T<sub>c</sub> 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>

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>

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](http://en.wikipedia.org/wiki/Topological_insulator)

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

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

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

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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  
<http://graphene.nus.edu.sg/content/event/topological-insulator-dirac-equation-condensed-matter>

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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>

topological insulators. In FQHE it is the electron electron  
interaction that makes electrons incompressible and form stable  
metallic edge states.<sup>9,10</sup>  
[http://phys.cts.ntu.edu.tw/workshop/2013/0902SS/lecturers/Shun\\_qing\\_Shen/Shen-11spin.pdf](http://phys.cts.ntu.edu.tw/workshop/2013/0902SS/lecturers/Shun_qing_Shen/Shen-11spin.pdf)

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The surfaces of certain band insulators called topological insulators  
can be conveniently described by the relativistic Dirac  
equation for massless  
<http://physics.aps.org/articles/v1/6>