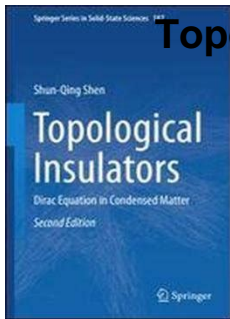


# Topological Insulators Dirac Equation In Condensed Matter



## TOPOLOGICAL INSULATORS DIRAC EQUATION IN CONDENSED MATTER

### topological insulators dirac equation pdf

Graphene is a zero-gap semiconductor, because its conduction and valence bands meet at the Dirac points, which are six locations in momentum space, on the edge of the Brillouin zone, divided into two non-equivalent sets of three points. The two sets are labeled K and K'. The sets give graphene a valley degeneracy of  $g_v = 2$ . By contrast, for traditional semiconductors the primary point of ...

### Graphene - Wikipedia

Journal of Physics Communications article Entanglement between living bacteria and quantized light witnessed by Rabi splitting featured in Scientific American article.. Journal of Physics Communications is now listed in Web of Science. Journal of Physics Communications has been selected for indexing in Clarivate Analytics' Emerging Sources Citation Index (ESCI).

### Journal of Physics Communications - IOPscience

A Majorana fermion ( $\gamma$ ), also referred to as a Majorana particle, is a fermion that is its own antiparticle. They were hypothesized by Ettore Majorana in 1937. The term is sometimes used in opposition to a Dirac fermion, which describes fermions that are not their own antiparticles.. With the exception of the neutrino, all of the Standard Model ...

### Majorana fermion - Wikipedia

An introduction to the MoEDAL detector. The magnetic monopole is a theoretical particle of matter. "Several important theories of physics are built on the belief that monopoles exist and it would ...

### Magnetic monopole experiment at CERN could rewrite laws of

Commercial photodetectors based on silicon are extensively applied in numerous fields. Except for their high performance, their maximum absorption wavelength is not over than 1100 nm and incident light with longer wavelengths cannot be detected; in addition, their cost is high and their manufacturing process is complex.

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