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Dirac, Majorana and Weyl fermions. Palash B. Pal Saha Institute of Nuclear Physics 1/AF Bidhan-Nagar, Calcutta 700064, India.

Abstract This is a pedagogical article which discusses various kinds of fermion fields: Dirac, Majorana and Weyl. The definitions and motivations for introducing each kind of fields is discussed, along with the connections between them.

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Dirac, Majorana and Weyl fermions - arXiv
Abstract: This is a pedagogical article which discusses various kinds of fermion fields: Dirac, Majorana and Weyl. The definitions and motivations for introducing each kind of fields is discussed, along with the connections between them. It is pointed out that these definitions have to do with the proper Lorentz group, and not with respect to any discrete symmetry.

[1006.1718] Dirac, Majorana and Weyl fermions
We discuss the Dirac, Majorana, and Weyl

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fermion fields. The definitions and motivations for introducing each kind of field is discussed, along with the connections between them. It is pointed out that these definitions have to do with the proper Lorentz group and not with any discrete symmetry. The action of discrete symmetries, such as charge conjugation and CP on various types of fermion ...

Dirac, Majorana, and Weyl fermions: American Journal of ...

There are Dirac and Majorana fermions.

Fermions are represented by spinors: Dirac

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fermions by (surprise!) 4-component Dirac spinors, Majorana fermions by 2-component Weyl spinors or, equivalently, by 4-component Majorana spinors in which only two components are independent. The main difference is that Majorana fermions are invariant under charge conjugation, i.e., they are their own antiparticles.

What are the differences among Dirac, Weyl, and Majorana ...

This is a pedagogical article which discusses various kinds of fermion fields: Dirac, Majorana and Weyl. The definitions and

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motivations for introducing each kind of fields is discussed, along with the connections between them. It is pointed out that these definitions have to do with the proper Lorentz group, and not with respect to any discrete symmetry. The action of discrete symmetries like ...

Dirac, Majorana and Weyl fermions - arxiv-vanity.com

Starting with graphene and its Dirac fermions , continuing to Majorana fermions in superconducting heterostructures (2-7), and most recently, with the discovery of Weyl

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(8-16) and Dirac (17-22)...

Beyond Dirac and Weyl fermions:

Unconventional ...

In physics, particularly quantum field theory, the Weyl equation is a relativistic wave equation for describing massless spin-1/2 particles called Weyl fermions. The equation is named after Hermann Weyl. The Weyl fermions are one of the three possible types of elementary fermions, the other two being the Dirac and the Majorana fermions. None of the elementary particles in the Standard Model are Weyl fermions. Previous to

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the confirmation of the neutrino oscillations, it was considered that the n

Weyl equation - Wikipedia

Mathematically, fermions come in three types: Weyl fermions (massless), Dirac fermions (massive), and; Majorana fermions (each its own antiparticle). Most Standard Model fermions are believed to be Dirac fermions, although it is unknown at this time whether the neutrinos are Dirac or Majorana fermions (or both). Dirac fermions can be treated as a combination of two Weyl fermions.

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Fermion - Wikipedia

The elementary particles that build the universe have two types: bosons and fermions, where the fermions are classified as Dirac, Weyl, and Majorana fermions. In recent years, Weyl fermions are...

Ideal type-II Weyl points are observed in classical circuits

Weyl and Majorana fermions are often treated as poor relatives of the former, and, consequently, not sufficiently studied, especially for what concerns their quantum aspects. The truth is that these three types

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of fermions, while similar in certain respects, behave radically differently in others.

Dirac, Majorana, Weyl in 4D
Topological materials can host Dirac, Majorana and Weyl fermions as emergent excitations. In this talk, I first present an overview of recent results on topological insulators and related superconductors as Majorana platforms.

The Division of Physics, Mathematics and
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Dirac, Majorana and Weyl fermions - INSPIRE
A Majorana fermion (/ m a ? ? ? r ? ? n ? ? f
? ? r m i ? ? n /), also referred to as a
Majorana particle, is a fermion that is its
own antiparticle. They were hypothesised 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

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exception of the neutrino, all of the Standard Model ...

Majorana fermion - Wikipedia

Bernevig, B. Andrei Fermions—elementary particles such as electrons—are classified as Dirac, Majorana or Weyl. Majorana and Weyl fermions had not been observed experimentally until the recent discovery of condensed matter systems such as topological superconductors and semimetals, in which they arise as low-energy excitations.

Type-II Weyl semimetals - NASA/ADS

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There are three different kinds of spin-1/2 particles: Dirac, Majorana, and Weyl. The first, Dirac fermions, have non-zero mass, and are represented as four component complex spinors.

What are Weyl fermions?

Monday, March 6, 2017 - 4:15pm Topological materials can host Dirac, Majorana and Weyl fermions as emergent excitations. In this talk, we will first briefly overview our recent results on topological insulators and helical superconductors based on topological insulators and consider new frontiers.

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The Physics of the Standard Model and Beyond
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