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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

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

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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

*Page 15/36*

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We discuss the Dirac, Majorana, and Weyl 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



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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:  
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There are Dirac and Majorana

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fermions. Fermions are represented by spinors: Dirac 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

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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

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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. The

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Beyond Dirac and Weyl fermions:  
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In physics, particularly quantum field  
theory, the Weyl equation is a  
relativistic wave equation for

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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

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Model are Weyl fermions. Previous to the confirmation of the neutrino oscillations, it was considered that the n

Weyl equation - Wikipedia

Mathematically, fermions come in three types: Weyl fermions (massless),



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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

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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,

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Ideal type-II Weyl points are observed  
in classical circuits

Weyl and Majorana fermions are often  
treated as poor relatives<sup>1</sup> of the former,  
and, consequently, not sufficiently  
studied, especially for what concerns

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fermions American Journal  
their quantum aspects. The truth is  
that these three types of fermions,  
while similar in certain respects,  
behave radically differently in others.

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Topological materials can host Dirac,  
Majorana and Weyl fermions as

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Emergent excitations. In this talk, I first present an overview of recent results on topological insulators and related superconductors as Majorana platforms.

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A Majorana fermion (/məˈdʒɔːrjənə  
ˈfɜːrmɪn/), 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

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own antiparticles.. With the 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,



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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.

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Type-II Weyl semimetals - NASA/ADS

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.

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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

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helical superconductors based on  
topological insulators and consider  
new frontiers.