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Starting from an abstract complex 2-dimensional vector space with a fixed alternating tensor, there is constructed what is called a spinor space. This spinor space, it turns out, is intimately connected to what is known as a Lorentz vector space \mathbb{R}^4 a 4-dimensional vector space endowed with a metric of Lorentz signature.

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Let us consider D-dimensional Minkowski space time M D with flat metric $\eta_{\mu\nu} = \text{diag}(\text{equation})$, $\mu, \nu = 0, 1, \dots, D - 1$. The Lorentz group is $SO(1, D - 1)$ and the generators of the Lorentz algebra $\mathfrak{JL} \dots$

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Introduction. Invented by Dirac in creating his relativistic quantum theory of the electron, spinors are important in quantum theory, relativity, nuclear physics, atomic and molecular physics, and condensed matter physics. Essentially, they are the mathematical entities that correspond to electrons in the same way that ordinary wave functions correspond to classical particles (including photons).

Spinors in Physics | SpringerLink

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Spinors in Hilbert Space Authors. Paul Dirac; Copyright 1974 Publisher Springer US Copyright Holder Plenum Press, New York eBook ISBN 978-1-4757-0034-3 DOI 10.1007/978-1-4757-0034-3 Softcover ISBN 978-1-4757-0036-7 Edition Number 1 Number of Pages VII, 91 Number of Illustrations 1 b/w illustrations Topics. Theoretical, Mathematical and Computational Physics

Spinors in Hilbert Space | Paul Dirac | Springer

There are many stars that are rotating spheroids in the Universe, and studying them is of very important significance. Since the times of Newton, many astronomers and physicists have researched gravitational properties of stars by considering the moment equations derived from Eulerian hydrodynamic equations. In this paper we study the scattering of spinors of the Dirac equation, and in ...

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In higher dimensions, pure spinors introduce natural nonlinearities and lead to topologically nontrivial configurations. It is shown how the constraint defining pure spinors may induce a ('mass term') in the Weyl equation for such spinors in a space of signature (3, 4). This is a preview of subscription content, log in to check access.

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A bstract. We study fermionic bulk fields in the dS/CFT dualities relating $\mathcal{N} = 2$ su- persymmetric Euclidean vector models with reversed spin-statistics in three dimensions to supersymmetric Vasiliev theories in four-dimensional de Sitter space. These dualities specify the Hartle-Hawking wave function in terms of the partition function of deforma- tions of the vector models.

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