

Research Article

Yousif Atyeib Ibrahim Hassan*

Structures of spinors fiber bundles with special relativity of Dirac operator using the Clifford algebra

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Abstract: The purpose of this article is to demonstrate how to use the mathematics of spinor bundles and their category. We have used the methods of principle fiber bundles obey thorough solid harmonic treatment of pseudo-Riemannian manifolds and spinor structures with Clifford algebras, which couple with Dirac operator to study important applications in cohomology theory.

Keywords: Clifford and spinor bundles, principle bundle, spin structures, Dirac operator

MSC 2020: 55N08, 55R05, 55R20

1 Introduction

The interplay between physics and mathematics has spurred each of the disciplines to great heights. It has led to numerous discoveries, not the least of which is the Dirac operator and the related concept of the spinor. The first groundwork for these concepts was laid down by Clifford in the middle of the nineteenth century as a generalization of the quaternions of Hamilton and the exterior algebra [1] of Grassmann. In 1913 [1], Elie Cartan wrote down the general theory of spinors. Spinors were first applied to mathematical physics by Wolfgang Pauli in 1927 [1], when he introduced his spin matrices. On the physics, Dirac introduced his famed operator in 1928 [1,2] but made no mention of the connection with spinors, and this was only done much later. During the years 1940–1970, the spinors and Clifford algebra of bundle became a fundamental tool of particle physics and came back later, at the forefront of differential geometry and of mathematics in general, with the recognition of the importance of the Dirac operator and theory of spinors in differential geometry.

Connections on fiber bundles and their relation with covariant derivation is discussed. In the final section, spin structures are introduced as nontrivial coverings of SO bundles, followed by a proof of necessary and the sufficient condition for their existence in terms of SO bundle and Dirac operator.

2 Clifford algebras

A Clifford algebra is a type of associative algebra, which can be considered a generalization of the usual associative fields such as $\mathbb{R}$, $\mathbb{C}$ or $\mathbb{H}$. In fact, these fields can be seen as particular examples of Clifford

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Clifford Algebras And Spinor Structures

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