

From Spinors To Quantum Mechanics By Gerrit Coddens

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From Spinors to Quantum Mechanics discusses group theory and its use in quantum mechanics. Chapters 1 to 4 offer an introduction to group theory, and it provides the reader with an exact and clear intuition of what a spinor is, showing that spinors are just a mathematically complete notation for group elements. Chapter 5 contains the first rigorous derivation of the Dirac equation from a ...

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A rotation of a spinor

⎯

n

{\displaystyle \mathbf {n} }

 (looks like a complex 2-vector) by an angle

ϕ

{\displaystyle \phi }

 around the unit axis

n
^

{\displaystyle {\hat {\mathbf {n} }}}

 = (cos

ϕ

{\displaystyle \phi }

 + i

n
^

{\displaystyle {\hat {\mathbf {n} }}}

sin

ϕ

{\displaystyle \phi }

), where

n
^

{\displaystyle {\hat {\mathbf {n} }}}

 are the three Pauli matrices, twice the generators of rotations in the doublet representation.

quantum mechanics—Rotation of a Spinor—Physics Stack

Moving beyond the spinor formalism, the author discusses its substantial relation to quantum mechanics. While his conclusions may not gain universal acceptance immediately, it is a very, very useful step in getting more understanding of the quantum theory. It is a great testimony to the French system.

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Spinors were introduced in geometry by Élie Cartan in 1913. In the 1920s physicists discovered that spinors are essential to describe the intrinsic angular momentum, or "spin", of the electron and other subatomic particles. Spinors are characterized by the specific way in which they behave under rotations.

Spinor—Wikipedi

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It transforms

⎯

n

{\displaystyle \mathbf {n} }

 into a spinor of a different type, which transforms under the Lorentz transformation differently than

⎯

n

{\displaystyle \mathbf {n} }

. As Pauli spinors represent spin in non-relativistic quantum mechanics, Weyl spinors are going to represent spin in RQM. If so, we know that the 1.1 Special Relativity 5

Relativistic Quantum Mechanics

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In quantum mechanics, eigenspinors are thought of as basis vectors representing the general spin state of a particle. Strictly speaking, they are not vectors at all, but in fact spinors. For a single spin 1/2 particle, they can be defined as the eigenvectors of the Pauli matrices.

Eigenspinor—Wikipedi

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Until now, we have focused on quantum mechanics of particles which are

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{\displaystyle \mathbf {n} }

 carrying no internal degrees of freedom. A relativistic formulation of quantum mechanics (due to Dirac and covered later in course) reveals that quantum particles can exhibit an intrinsic angular momentum component known as spin.