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Spinors In Hilbert Space

The exact nature of this Hilbert space is dependent on the system; for example, the position and momentum states for a single non-relativistic spin zero particle is the space of all square-integrable functions, while the states for the spin of a single proton are unit elements of the two-dimensional complex Hilbert space of spinors.

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coordinates are considered to be complex numbers and each vector has a

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(discrete Weyl algebra) is re-examined and it is shown that the quantum

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These free field harmonic solutions are Dirac spinors, which are four element complex vectors (not in the sense of four-vectors...). This means that when operating with the Dirac field operator on a state in the Hilbert space, we get some linear combination of states with spinor coefficients. Here are my question: a) Is my description correct?

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The Hilbert space of spinors is $\mathcal{H} := \mathcal{H} \uparrow \oplus \mathcal{H} \downarrow$, which is just the completion of W . It can be decomposed as $\mathcal{H} = \mathcal{H} \uparrow \oplus \mathcal{H} \downarrow$ where $\mathcal{H} \uparrow$ and $\mathcal{H} \downarrow$ are the respective completions of $\oplus_{j \geq 0} W_j \uparrow$ and $\oplus_{j \geq 1} W_j \downarrow$. An better explicit basis for W , is given as follows.

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Infinite-dimensional Clifford algebras and their Fock representations originated in the quantum mechanical study of electrons. In this book, the authors give a definitive account of the various Clifford algebras over a real Hilbert space and of their Fock representations. A careful consideration of the latter's transformation properties under Bogoliubov automorphisms leads to the restricted ...

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In geometry and physics, spinors / s p i n ə r / are elements of a complex vector space that can be associated with Euclidean space. Like geometric vectors

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and more general tensors, spinors transform linearly when the Euclidean space is subjected to a slight (infinitesimal) rotation. However, when a sequence of such small rotations is composed to form an overall final rotation, the resulting ...

Spinor - Wikipedia

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squared length $\sim r|Qr|^2$. This squared length must converge in order that the q 's may specify a Hilbert ...

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