

Spinors In Hilbert Space

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Hilbert Spaces and L^2

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Hilbert space is just a Euclidean space with an infinite number of dimensions and which is made precise by a convergence condition imposed on the coordinates of the vectors in it. We shall study spinors in Hilbert space by first studying spinors in a Euclidean space of n dimensions and then making $n \rightarrow \infty$.

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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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~~Hilbert space—Wikipedia~~

spanned by algebraic spinors and these elements play the role of 'wave functions' in the Hilbert space formalism. But it must be emphasised these elements are contained entirely within the algebra and no external vector space is needed. We have already stressed this point in Frescura and Hiley (1980a). In this paper we show how these same ideals are

~~Algebraic Quantum Mechanics, Algebraic Spinors and Hilbert~~

~~...~~

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~~When a Hilbert space's state vector becomes a spinor ...~~

In geometry and physics, spinors / spⁿr / are elements of a complex vector space that can be associated with Euclidean space. Like geometric vectors 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 (integrated) to form an overall final rotation, the resulting spinor transformation depends on which sequence of small rotations was used.

~~Spinor—Wikipedia~~

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1. Hilbert Space The words "Hilbert space" here will always denote what math ematicians call a separable Hilbert space. It is composed of vectors each with a denumerable infinity of coordinates ql' q2' Q3, Usually the coordinates are considered to be complex numbers and each vector has a

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M, g), they are 8 • The Hilbert space H of L²-spinors • The ?

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γ_5 operator γ_5 in H • The charge conjugation operator J • The decreasing filtration $H^s = \bigcap_{s' \geq s} H^{s'}$, $s > s_0$ of L^2 -spinors by Sobolev spaces At the algebraic level (and as a consequence of working in dimension 4) the operators γ_5 and J fulfill the simple rules $\gamma_5^2 = 1$, $J^2 = -1$, $J\gamma_5 = \gamma_5 J$ with γ_5 self-adjoint, while J is an antilinear isometry of H .

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