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The language of Clifford algebras (sometimes called geometric algebras) provides a complete picture of the spin representations of all the spin groups, and the various relationships between those representations, via the classification of Clifford algebras. It largely removes the need for ad hoc constructions. In detail, let  $V$  be a finite-dimensional complex vector space with nondegenerate ...

### **Spinor - Wikipedia**

In physics, the algebra of physical space (APS) is the use of the Clifford or geometric algebra  $Cl_{3,0}(\mathbb{R})$  of the three-dimensional Euclidean space as a model for (3+1)-dimensional spacetime, representing a point in spacetime via a paravector (3-dimensional vector plus a 1-dimensional scalar). The Clifford algebra  $Cl_{3,0}(\mathbb{R})$  has a faithful representation, generated by Pauli matrices, on the ...

### **Algebra of physical space - Wikipedia**

References. A standard textbook reference is. H. Blaine Lawson, Marie-Louise Michelsohn, chapter I, section 2 of Spin geometry, Princeton University Press (1989); See also. Veeravalli Varadarajan, section 7 of Supersymmetry for mathematicians: An introduction, Courant lecture notes in mathematics, American Mathematical Society, Providence, R.I (2004) ...

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