

clifford algebras and spinor pdf

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) ...

spin group in nLab

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viXra.org e-Print archive, Quantum Gravity and String Theory

Haag, Rudolf @ K Fredenhagen. w D Kastler "An algebraic approach to quantum field theory" JMP 5 (1964) 848-861 [>qft-algebraic]. "Observables and fields" in Deser, Grisaru & Pendleton 71, 1-89 [>obs].; w H Narnhofer & U Stein "On quantum field theory in gravitational background" CMP 94 (1984) 219-238 [>qft-cst; *]. "Fundamental irreversibility and the concept of events" CMP 132 (1990) 245-251 ...

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