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The Algebraic Theory Of Spinors

In geometry and physics, spinors / spinor / 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 (

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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

Since its appearance in 1954, "The

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"Algebraic Theory of Spinors" has been a very sought after reference. It presents the whole story of one subject in a concise and especially clear manner.

The reprint of the book is supplemented by a series of lectures on Clifford Algebras given by the author in Japan at about the same time.

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**The Algebraic Theory of Spinors and
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The theory of the rotation of triads has been usually considered in the context of rigid body mechanics²⁹ According to the traditional definition a rigid body is “a collection of point particles keeping rigid distances.” Such a system does not lend itself to useful relativistic

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generalization 30.

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**5 Spinor Calculus - MIT
OpenCourseWare**

Clifford algebras and spinors 2 Proof. It is
the kernel of the composition of B with
restriction to U . 1.2. Lemma. If U is a
subspace of V on which the restriction
of Q is nondegenerate, then $V = U \oplus U^\perp$.

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Proof. Because $U_{\perp} = \{0\}$. As a special case: 1.3. Lemma. If $Q(v) \neq 0$ then every vector w in V can be expressed as $c \cdot v + u$ with $u \perp v$. Proof. Familiar. Explicitly $c = \frac{w \cdot v}{Q(v)}$.

Clifford algebras and spinors

The general algebraic study of spinors in arbitrary fields was carried out by C.

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Chevalley in his book⁶. The theory of spinors in arbitrary dimensions but for positive definite quadratic forms was developed in a famous paper of Atiyah, Bott, and Shapiro⁷ where they carried out many applications.

5. SPINORS

In mathematics and physics, in

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particular in the theory of the orthogonal groups, spinors are elements of a complex vector space introduced to expand the notion of spatial vector. They are needed because the full structure of the group of rotations in a given number of dimensions requires some extra number of dimensions to exhibit it.

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The main mathematical part is connected with the study of invariant algebraic and geometric relations between spinors and tensors. The theory of spinors and the methods of the tensor representation of spinors and spinor equations are thoroughly expounded in four-dimensional and three-dimensional

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spaces.

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No one fully understands spinors. Their algebra is formally understood, but their geometrical significance is mysterious. In some sense they describe the “square root” of geometry and, just as

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understanding the concept of p 1 took centuries, the same might be true of spinors. — Sir Michael Atiyah, British mathematician

A Child's Guide to Spinors - Hermann Weyl

Spinors have played a crucial role in both the physics and the mathematics of

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the 20th century. Discovered in 1913 by Cartan in his investigations of the representation theory of the orthogonal groups, spinors first appeared in physics in the 1920's in the guise of Pauli's spin matrices and in Dirac's relativistic theory of electron spin.

Spinors in Physics and Geometry -

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High Energy Physics at ...

Clifford algebra is a generalisation to n -dimensional space of quaternions, which Hamilton used to represent scalars and vectors in real three-space: it is also a development of Clifford Algebras and Their Applications in Mathematical Physics | John Stephen roy Chisholm | Springer

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Clifford Algebras and Their Applications in Mathematical ...

He develops the theory of spinors (he discovered the general mathematical form of spinors in 1913) systematically by giving a purely geometrical definition of these mathematical entities; this geometrical origin makes it very easy to

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introduce spinors into Riemannian geometry, and particularly to apply the idea of parallel transport to these geometrical entities.

The Theory of Spinors (Dover Books on Mathematics ...

The spinor formalism, in the Dirac equation, established spinors within

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quantum theory. The twistor formalisms are related to the structure of spacetime and the relation of the spinors and twistors is also of interest because it identifies a relationship between quantum mechanics and relativity [17, 18, 30, 31].

QUATERNIONS, SPINORS, AND

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TWISTORS AND THE

The exposition owes a lot to Bourbaki's treatment in Alg. Ch. 9, and through Bourbaki to C. Chevalley's "The algebraic theory of spinors". The super Brauer group of §3 was first considered by C. T. C. Wall (1963), under the name "graded Brauer group" and with a different, but equivalent, definition.

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Notes on Spinors - Semantic Scholar

These ideals are 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

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already stressed this point in Frescura
and Hiley (1980a).

Algebraic Quantum Mechanics, Algebraic Spinors and Hilbert ...

The exposition owes a lot to Bourbaki's treatment in Alg. Ch. 9, and through Bourbaki to C. Chevalley's "The algebraic theory of spinors". The super

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Brauer group of §3 was first considered by C. T. C. Wall (1963), under the name "graded Brauer group" and with a different, but equivalent, definition.

[PDF] Notes on Spinors | Semantic Scholar

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Describes the algebraic and geometric applications to the theory of spinors and includes the principle of triality in eight dimensional space.

**The algebraic theory of spinors.
(eBook, 1954) [WorldCat.org]**

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The identification of spinors with real

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even multivectors in geometric algebra was first made by David Hestenes [3, 4, 5]; we extend his approach using group theory and insights provided by algebraic spinor methods (see e.g. Ref.). Many modern mathematical treatments (Refs.

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