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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

The geometric algebra (GA) of a vector space is an algebra over a field, noted for its multiplication operation called the geometric product on a space of elements called multivectors, which is a superset of both the scalars and the vector space. Mathematically, a geometric algebra may be defined as the Clifford algebra of a vector space with a quadratic form.

Geometric algebra - Wikipedia

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My name is Daniel Murfet, I am a Lecturer (aka tenure-track Assistant Professor) in the Mathematics Department at the University of Melbourne. My CV is here and you can contact me by email. My papers are on the arXiv with the exception of my PhD thesis which you can find here. I run a seminar, the videos from which may be found on YouTube. My primary research interests are in algebraic geometry ...

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