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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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This thesis is an investigation into the properties and applications of Clifford's geometric algebra. Topics covered includes: Grassmann Algebra and Berezin Calculus, Lie Groups and Spin Groups, Spinor Algebra, Point-particle Lagrangians, Field Theory, Gravity as a Gauge Theory.

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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

Texts: Darij Grinberg and Victor Reiner, [Prop] Hopf Algebras in Combinatorics. [Prop] Sourcecode of the notes, and [Prop] a version with solutions to exercises. The paper also appears as arXiv preprint arXiv:1409.8356, but the version on this website is updated more frequently. These notes -- originating from a one-semester class by Victor Reiner at the University of Minnesota -- survey some ...

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