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June 2nd, 2020 - in physics the main applications are the geometric algebra of minkowski 3 1 spacetime called spacetime algebra sta or less monly interpreted the algebra of physical space aps'

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June 2nd, 2020 - elegance in geometric algebra readers who want to know more can consult the last section of this paper further study it includes a listing of many papers available on the web the american physicist and mathematician david hestenes initiated the modern development of geometric algebra with the publication of space time algebra in 1966 6"*matrix gateway to geometric algebra spacetime and spinors* 

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## does the geometric algebra of curved space have a matrix

May 21st, 2020 - begingroup no you can t by using the sigma i you have represented a metric of euclidean signature which means that the metric must be positive definite so all vectors have non negative norm since the metric is a positive definite inner product it must obey the cauchy schwarz inequality as i stated above in the metric you are trying to give some vectors have a negative norm for'

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March 29th, 2020 - 2 spacetime algebra spacetime algebra is the name given to the geometric cli?ord algebra gener ated by minkowski spacetime in geometric algebra vectors are equipped with a product that is associative and distributive over addition this product has the distinguishing feature that the square of any vector in the algebra is a scalar'

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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 r has a faithful representation generated by pauli matrices on the'

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