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Ablamowicz, R., Lounesto, P. and Maks, J.: 1991, Conference Report, Second Workshop on Clifford Algebras and Their Applications in Mathematical Physics, Foundations ...

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Whether complexification is necessary to begin with depends in part on conventions used and in part on how much one wants to incorporate straightforwardly, but complexification is most often necessary in quantum mechanics where the spin representation of the Lie algebra  $so(1, 3)$  sitting inside the Clifford algebra conventionally requires a complex Clifford algebra. For reference, the spin Lie ...

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In mathematics, the tensor algebra of a vector space  $V$ , denoted  $T$  or  $T[V]$ , is the algebra of tensors on  $V$  with multiplication being the tensor product. It is the free algebra on  $V$ , in the sense of being left adjoint to the forgetful functor from algebras to vector spaces: it is the "most general" algebra containing  $V$ , in the sense of the corresponding universal property. The tensor algebra is important because many other algebras arise as quotient algebras of  $T$ . These include the exterior ...

~~Tensor algebra - Wikipedia~~

There are simple and straightforward embeddings of the underlying vector space  $V$  into its corresponding tensor algebra  $T(V)$  and any of its corresponding Clifford algebras  $Cl_q(V)$  (where  $q$  denotes the quadratic form defining the Clifford algebra). This fact is what makes both tensor analysis and geometric (Clifford) algebra compatible with ordinary vector algebra or calculus.

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For example the 4x4 matrix of your tensor product can be viewed as a simple geometric structure in Clifford algebra, composed of basis vectors  $e_1$ ,  $e_2$ , and the bivectors obtained by multiplying every combination of basis vectors  $e_1*e_1$ ,  $e_1*e_2$ ,  $e_2*e_1$ ,  $e_2*e_2$ , which you can picture as the plane areas defined by the wedge product of the two vectors (the surface of the parallelogram defined by the two vectors) but that plane area also has a twist, that rotates from  $a$  to  $b$  for  $a*b$ , and from  $b$  to  $a$  ...

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