

Review of: "Representation of physical quantities: From scalars, vectors, tensors and spinors to multivectors"

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Potential competing interests: No potential competing interests to declare.

The paper is well written and is a good exposure for researchers and students who would like a bird's eye view of the field. I think the authors should add some text about the use of split-quaternions. A good list of references on the topics is

- 1. Cockle, J. On Systems of Algebra Involving More Than One Imaginary; And On Equations of The Fifth Degree Philos. Mag. 1849, 35, 434.
- 2. Kula, L.; Yayli, Y. Split Quaternions and Rotations in Semi Euclidean Space. J. Korean Math. Soc. 2007, 44, 1313.
- 3. Machen, C. The Exponential of a Quaternion Matrix. Rose-Hulman Undergr. Math. J. 2011, 12, 29.
- 4. Özdemir, M. The Roots of a Split Quaternion. Appl. Math. Lett. 2009, 22, 258.
- 5. HY Lin, M Cahay, BN Vellambi, D Morris, A Generalization of Quaternions and Their Applications Symmetry 14 (3), 599 (2022).

Once some text and references about split-quaternions are added to the paper, it will be suitable for publication.

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