

Review of: "The Standard Model Symmetry and Qubit Entanglement"

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Potential competing interests: No potential competing interests to declare.

The article presents an intriguing and original proposal that connects quantum entanglement and the structure of spacetime and particle physics. The article uses the division algebras and the Hopf fibrations to construct a model based on four qubits that reproduces the symmetries and transformation laws of one generation of fermions. The article also discusses some open problems and possible extensions of the model.

The article is well-written and organized, and the arguments are clear and rigorous. The article provides a comprehensive overview of the relevant literature and concepts, and explains the main ideas and results in an accessible way. The article also acknowledges the limitations and challenges of the model, and suggests some directions for future research.

I recommend this article for acceptance, as I think it is a valuable contribution to the field of quantum foundations and quantum gravity. However, I have some minor comments and suggestions that could improve the quality and clarity of the article:

The introduction could be more concise and focused, as it contains some redundant or tangential information that could be moved to other sections or omitted.

The conclusion might be more concise and focused, as it contains some repetitive or speculative information that could be moved to other sections or omitted. The conclusion may summarize the main findings and implications of the article, and highlight the originality and significance of the work.