

Review of: "Electron Spin Topology in Excited States and Fractional Spin Effect"

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Potential competing interests: No potential competing interests to declare.

The paper deals with a fundamental and interesting question as to the origin of the electron spin. According to my understanding of the paper, I have a few concerns about the manuscript.

1, As the authors' mentioned that the particle spin interpretation would require the electron to spin faster than the speed of light, is it possible to estimate the speed of the spinning current density in the wave spin picture?

2, By saying that 'When the wave spin interacts with a magnetic field smaller in size than the wave itself, fractional spin effect can be observed.', what's the meaning of the magnetic field smaller in size than the wave itself, and what's the correspondence of it in reality?

3, According to the paper, the spin of electron is associated with the circulation of the current density in the excited states, for example $n_x=2$ and $n_y=2$, then how can we understand the spin of electron in the ground state?