

Review of: "The origin of dark energy and dark matter: the galactic antigravitation"

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Potential competing interests: No potential competing interests to declare.

This paper introduced a theory of antigravitation to explain the nature of dark matter and dark energy. However, the way they introduced the theory is at a very amateur level, and there are many reasons this is not a valid theory:

- 1. There are some fundamental mistakes in this paper. For example, in Fig. 2, a large distance does not necessarily refer to early Universe processes such as BBN. They could well be in the late Universe. Also, one has to account for the expansion of the Universe and consider comoving distance instead when talking about the early Universe.
- 2. This theory cannot explain why dark energy is not important at early times such as recombination. Also, it is inconsistent with modern observations from CMB and BAO.
- 3. It is not clear if this theory is Lorentz invariant or even formally consistent.

Overall, I will not recommend this work for publication due to the above reasons.

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