

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

Sobhan Kazempour Ishka¹

¹ Tabriz University

Potential competing interests: No potential competing interests to declare.

I believe that this manuscript has not the standard scientific structure of the paper. In fact, we can not find any scientific frame which leads to the previous theory which passed several scientific experiments. It looks like the model was created based on classical Newton's theory of gravity which is disabled to explain the solar system phenomena.

I mean that it is obvious that the standard Einstein's general relativity passed several observational experiments such as the perihelion precession of Mercury's orbit, the deflection of light by the Sun, the prediction of GWs, and the gravitational red-shift of light and so on.

Therefore, if the introduced model can explain the accelerated expansion of the Universe which I doubt about it, the model would encounter several problems in the scale of the solar system and so on. Moreover, there are not any scientific calculations that try to explain the scientific assumptions. I only found some claims and proposals without any proof or scientific evidence.

I would like to point out a number of problems:

I) It was considered that there is a mediator (it is called Keplerons) which is not a boson or a fermion. Without any physical proof!

II) The origin of claims is not clear.

III) It looks like the proposed model leads to a violation of the correspondence principle.

IV) Editorial problems and writing math formulas.

To wrap up, I think that the author should explain his claims scientifically in the framework of quantum field theory.

Meanwhile, he should construct the model using tensor calculations which would be covariant under transformations.

Finally, I think that the only things that are a bit good are; the idea and paying attention to different aspects of physics and astrophysics. But they are raw!