

# Review of: "Reinterpreting Relativity: Using the Equivalence Principle to Explain Away Cosmological Anomalies"

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Potential competing interests: No potential competing interests to declare.

I agree with the author's opening remarks that "physics is in crisis."

While this is a reasonably detailed study, the author has made the same mistakes all others who have written on Einstein's gravity field equations from his general relativity theory, have made. It is a failure to understand the mathematics he used and the physics that underpins his maths. The author is referred to a paper: "Physical explanations of Einstein's Gravity" V N E Robinson 2021 J. Phys. Commun. **5** 035013. It can be viewed at:

<https://doi.org/10.1088/2399-6528/abee2f>

It shows the physics underpinning Einstein's space-time distortion is photon redshift. It also shows how Einstein's complex field equations reduce to minor, but important, variations to Newton's gravity theory. That shows why Einstein's gravity is weaker than Newton's inverse square.

Once that is understood, it removes the foundations upon which this paper is written. For example, gravity weaker than inverse square law means an infinite steady state universe won't collapse. Einstein introduced his  $\Lambda$  cosmological constant because he only considered a finite universe, which will collapse under any gravity theory. With it, and other principles, cosmological anomalies disappear.

The above above IOP published paper removes the premises that underpin this paper. The physics crisis will be solved by a correct understanding of Einstein's gravity, Trying to manipulate around them leads to greater complexity for what is a "relatively" simple topic.