

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

Mushtaq Ahmad¹

1 FAST - National University of Computer and Emerging Sciences (NUCES)

Potential competing interests: No potential competing interests to declare.

The paper presents a provocative alternative to the standard interpretation of General Relativity and its cosmological implications. While the proposed reconceptualization has the potential to address significant challenges associated with the ACDM model, its complexity and the need for rigorous empirical validation are notable concerns. Further exploration and empirical testing of this alternative interpretation will be pivotal in determining its viability and potential contribution to our understanding of the universe. Certainly, here are some questions that could be posed to the authors based on the critical evaluation of their paper:

- 1. Can you provide a more detailed explanation of the theoretical underpinnings and assumptions that led to the alternative interpretation of General Relativity's field equations presented in your paper?
- 2. How do you address the extensive empirical success of the conventional Λ CDM model in explaining a wide range of astronomical observations and cosmological phenomena, given that your alternative interpretation deviates significantly from the standard model?
- 3. Could you elaborate on the implications of your proposed reconceptualization for existing experimental evidence and observational data, particularly regarding its ability to resolve the challenges associated with dark matter, dark energy, and inflation?
- 4. What are the specific predictions of your alternative interpretation that distinguish it from the conventional understanding of General Relativity, and how can these predictions be tested empirically?
- 5. How do you reconcile the proposed changing value of the cosmological constant (Λ) in your model with the constraints imposed by existing observational data and theoretical considerations?
- 6. Can you clarify the relationship between the second-order spacetime fabric and the absolute, first-order Euclidean space in your proposed interpretation, and how does this relationship manifest in observable phenomena?
- 7. What are the potential implications of your alternative interpretation for other fundamental theories in physics, such as quantum mechanics, and how does it fit within the broader framework of theoretical physics?
- 8. How do you respond to criticisms that the alternative interpretation may introduce unnecessary complexity or ad hoc assumptions compared to the conventional ACDM model?



- 9. What further research or experiments do you propose to validate or refine your alternative interpretation of General Relativity, and how do you envision the future development of this line of inquiry?
- 10. Lastly, could you discuss any potential limitations or challenges associated with your proposed reconceptualization and how you plan to address them in future work?

These questions aim to encourage the authors to provide more in-depth insights into their alternative interpretation and to address the critical concerns raised by the evaluation of their paper.