

# Review of: "Dimensional Reduction as Source of Cosmological Anomalies"

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**Potential competing interests:** No potential competing interests to declare.

## Reviewer`s comment for the paper entitled : **Dimensional Reduction as Source of Cosmological Anomalies**, by Ervin Goldfain

I read this paper and all comments of reviewers which are attached to it. I agree with comments of other reviewers so that this version of the above paper is poor and should be improved. Although author try to describe relation of space time dimensions to unknown dark sector of the matter and it is considerable novelty in my opinion because from particle physics point of view there are several candidate which support originality of dark matter. The latter property makes unacceptable the usual models for dark matter by more of theoretical physicists .

However to improve the work, the author can be add comparisons between results of the successes of competing gravity models for instance General Relativity, Brans Dicke scalar tensor gravity, Hoyle Narlikar creative gravity model and so on related to the observations. In this way show the superior capabilities of his model compared to these competing models. For instance we know that the advantage of Brans-Dicke's gravitational model compared to general relativity is the presence of an adjustment parameter that adjusts the match of the predicted value of Mercury's meridian deviation angle with the experimentally observed value, and therefore brings closer together the accuracy, between theory prediction and observation. In fact philosophically In Brans-Dicke's theory, the Newtonian gravity parameter is variable, but in general relativity, it is a global constant like Newton's theory of gravity. By regarding such a correspondence with detail in body of the paper it can be improved and can be publishable. At last i should point that if dimensions of the space time is used instead of unknown dark sector as a meaningful object then predictions of this model must show its score with respect to other usual gravity models.

Sincerely yours

reviewer