



SDI Review Form 1.6

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| Journal Name: | Physical Science International Journal |
| Manuscript Number: | 2015_PSIJ_17812 |
| Title of the Manuscript: | The thermodynamics of a gravitating vacuum |
| Type of the Article | Review Paper |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
|-------------------------------------|---|---|
| Compulsory REVISION comments | The paper is a good intent to explain the discrepancies between the expansion rates and the quasi-null matter existence in the Universe. | Well, this is not a comment which requires a revision of the paper. |
| Minor REVISION comments | | |
| Optional/General comments | Now we could have that prove this with other arguments, for example microscopic to have observational fact that can prove this. | We respect to observational facts we point out that our calculations result in a vacuum energy density which nicely matches the presently assumed value of Dark Energy which is about 70% of the critical density of the universe. The major problem of the 10^{122} discrepancy between theoretical calculations of the vacuum energy density and the today's critical density is no longer existent in our model. |