



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">Physical Science International Journal</a>                |
| Manuscript Number:       | <b>Ms_PSIJ_24990</b>  |
| Title of the Manuscript: | <b>Kaluza-Klein Bouncing Cosmological Model in General Relativity</b> |
| Type of the Article      | <b>Original research paper</b>  |

**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) |
|-------------------------------------|--|---|
| <b>Compulsory</b> REVISION comments | <p><b>This paper contains significant errors.</b></p> <p><b>The proposed ansatz (Eq. (6)) has inconsistent dimensions ((<math>t-t_0</math>)<sup>2</sup> has the dimensions of time squared, <math>t_0/(1-\beta)</math> has the dimensions of time.)</b></p> <p><b>The proposed ansatz is NOT a solution of the field equations (6)--(8), as can be determined easily by direct substitution.</b></p> <p><b>The acceleration parameter is defined incorrectly (17). It can be seen already from dimensional arguments, as the Hubble constant has dimensions of inverse time, so Eq. (17) contains both dimensionless quantities and quantities with the dimensions of inverse time squared. But it can also be checked by direct substitution, using the definition of H (10). The correct form of the acceleration parameter is <math>q = -1 - \dot{H}/H^2</math>, as can be verified by direct calculation.</b></p> <p><b>Because these fundamental errors invalidate any discussion of the model's physical properties, I am not commenting on Sec. 4 at the present time.</b></p> <p><b>These errors MUST be corrected if the authors choose to resubmit this paper for further consideration.</b></p> | <p>It is mentioned why the solution is assumed.</p> <p>Appropriate corrections are made the manuscript is revised.</p>  |
| <b>Minor</b> REVISION comments      |  |   |
| <b>Optional/General</b> comments    | It is obvious that the authors are not native speakers of English. I strongly recommend that the paper be reviewed by a native speaker before resubmission.  | Attempts are made to review the paper by English expert.  |