



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">Physical Science International Journal</a>                           |
| Manuscript Number:       | 2015_PSIJ_18515                                                                  |
| Title of the Manuscript: | <b>Bianchi Type-IX Cosmological Model in <math>f(R)</math> Theory of Gravity</b> |
| Type of the Article      |                                                                                  |

**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**

|                                            | <b>Reviewer's comment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Author's comment</b> <i>(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)</i> |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Compulsory</u></b> REVISION comments | <p>I have one formal issue with the presentation. The symbols <math>\theta</math> and <math>\sigma</math> are not properly defined, so it is not possible for the reader to understand why any assumptions relating the two (as stated just before Eq. (13)) have the stated consequences. I believe it is important to include appropriate definitions. This will also help the reader understand the significance and verify the validity of the expressions that are derived for these quantities (Eqs. (27) and (29)).</p> <p>I also have a substantive question that I think the paper should answer before publication. Given the simple form of <math>f(R)</math> that the authors obtained at the end of Sec. (5) (I recommend, by the way, that this equation be numbered), I'd like to see it substituted back into the field equation (2). My particular concern is that the field equation may only differ trivially from the field equation of Jordan-Brans-Dicke theory, implying unreasonable constraints on the dimensionless constants of the theory. Can the authors address this?</p> |                                                                                                                                                                                             |
| <b><u>Minor</u></b> REVISION comments      | <p>I wish to comment on the quality of the authors' English. This paper badly needs editing by a native English speaker. The paper is riddled with grammatical errors, odd turns of phrase, haphazard capitalization, and bad writing style. This should be corrected before the paper is accepted for publication. (I note that I am not a native speaker myself, but I do find it important to use proper grammar and style in my professional communications.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                             |



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| <b><u>Optional/General</u></b> comments | This is a competently written, technically interesting paper, in which the authors deduce the form of a specific $f(R)$ theory by introducing a metric ansatz and then solving for its parameters. |  |
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**Reviewer Details:**

|                                  |                  |
|----------------------------------|------------------|
| Name:                            | <b>Anonymous</b> |
| Department, University & Country | <b>Canada</b>    |