



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">Archives of Current Research International</a>                   |
| Manuscript Number:       | Ms_ACRI_37691                                                                |
| Title of the Manuscript: | Time Periodic Varying Deceleration Parameter In Reconstructed f(R,T) Gravity |
| Type of the Article      | Original Research 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>)

**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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Compulsory</b> REVISION comments | <p>(1) All the solutions given by author , the value of <math>\lambda = 0</math> .The solution is given by for perfect fluid matter distribution, why the author taken the <math>T_{ik}</math> in equation (8) as string cloud with perfect fluid, kindly justify the answer.</p> <p>(2) Author showing the result in manuscript that for <math>k = 0</math> and <math>t = \frac{\pi}{2n}</math>, they obtain dark energy model for f(R,T) gravity. For <math>t = \frac{\pi}{2n}</math>, from equation(14) the metric potential becomes <math>A = c_1 \tan(\frac{\pi}{4})^{(1/m)} = c_1 = cons \tan t</math> .Thus, the left side of field equations (10) to (12) for <math>k = 0</math> and <math>t = \frac{\pi}{2n}</math> becomes insignificant, also q given by equation (13). Kindly justify the answer.</p> | <p>Dear Referee, according to your suggestions, we have revised our manuscript as follows:</p> <p>(1) We have added this sentences "The cosmic strings are very important to solve the mystery of the universe. Then recently, various scientists have been investigated string cosmology in various cosmological models and theories with different matter distributions [17], [30], [31]. According to Zel'dovich [32]; strings gives leads to the formation of galaxies. Also, strings have the gravitational field. Then, it is important to research the gravitational effects that arise from strings [17]. However, perfect fluid matter distribution could adequately characterize the majority of the thermal history of the universe [33]. From these reasons, we have used string cloud with perfect fluid matter distribution in f(R,T) theory. « in line 91-98.</p> <p>(2) You are right. Then we erased the sentences "For <math>k = 0</math> and <math>t = \frac{\pi}{2n}</math>, we obtain dark energy (<math>p = -\rho</math>) solution in f(R,T) gravity." from our manuscript.</p> <p>Regards.</p> |
| <b>Minor</b> REVISION comments      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Optional/General</b> comments    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

