



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">British Journal of Mathematics &amp; Computer Science</a> |
| Manuscript Number:       | Ms_BJMCS_29326                                                        |
| Title of the Manuscript: | A possible exact solution for the Newtonian constant of gravity       |
| Type of the Article      | Original research 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Compulsory</b> REVISION comments | It is built on the purely numerical coincidence between that $G \sim 1/16\pi c$ in the SI system of units. However, the dimensions of these two quantities differ, which the author “resolves” by introducing arbitrary dimensioned constants like $\eta = 1 \text{ kg} / \text{m}^3$ . In the paper itself, the author reveals complete ignorance about tensor algebra and calculus, obviously not comprehending concepts like eigenvalues, the trace of a tensor, or its representation in a coordinate system. | <p>Thank you very much for responsible reading of our manuscript. The comments greatly benefit our work. The following text offers a point to point reply to the comments.</p> <p>Question 1</p> <p>This is a very good as well as fundamental question of our work. The standard form of our solution is</p> $G = \frac{\sqrt{\epsilon_0 \mu_0}}{16\pi} \eta$ <p>The dimension of this theoretical solution is consistent with that of <math>G</math> given in Newton's law of gravity. <math>\eta</math> results from resolving the eigen-modulus of the energy-momentum tensor (<math>T_{\mu\nu}</math>, B.3 The eigen-modulus of the energy-momentum tensor).</p> <p>Since <math>\eta = 1</math> and <math>c = (\epsilon_0 \mu_0)^{-1/2}</math>, we have</p> $G \sim 1/16\pi c.$ <p>This is a purely numerical relationship. We therefore use “<math>\simeq</math>” instead of “<math>=</math>” in this equation.</p> <p>Question 2</p> <p>On the basis of discussions (in the field of tensor analysis and gravity) with some experts (professors and doctors), we think the deductions in this manuscript may have</p> |



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|                                            |  | potential meaning to related disciplines. We are glad to improve our knowledge in mathematics and physics, and we will work hard in these fields. Thank you again for your good suggestions. |
| <b>Minor</b> REVISION<br>comments          |  |                                                                                                                                                                                              |
| <b><u>Optional/General</u></b><br>comments |  |                                                                                                                                                                                              |