



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_42512
Title of the Manuscript:	QUANTUM ENERGY OF A PARTICLE IN A FINITE-POTENTIAL WELL BASED UPON GOLDEN METRIC TENSOR
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>)

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	<p>The author proposes to generalize the Schrödinger equation to the Riemann-Schrödinger one. To be honest, I do not understand whether there are real physical situations when such a generalization will be applicable, but in any case the paper can be treated as pure mathematical.</p> <p>When I tried to understand the derivation I had the following technical problems. In Eqs. (2-4) the author writes $2f/G^2$ but in Eq. (5) - $2f/c^2$. Probably in (2-4) it should be $2f/c^2$ also because the meaning of G is not explained and the determinant of g contains only $2f/c^2$. The meaning of f is explained only at the end of the paper. The author says that this is the scalar potential. The usual terminology is that the potential is a function of coordinates but here f is simply a constant.</p> <p>Another deviation from standard notations is as follows. Usually g_{11} means g_{xx}, $g_{22} - g_{yy}$ and $g_{33} - g_{zz}$. But the author considers the spherical coordinates and means g_{11} as g_{rr}, g_{22} as $g_{\theta\theta}$ and g_{33} as $g_{\phi\phi}$. It seems to me, the author should explicitly explain the meaning of his/her notations.</p> <p>I recommend the author to make those small changes and after that the paper can be published.</p>	<p>Agreed with the Reviewer on the first part of the review involving eqs (2-4) and corrections effected on the manuscript. On the second part of the review, just as the Reviewer pointed out, the spherical coordinates were considered and so automatically replaces the Cartesian coordinates in all respects.</p>