



SDI Review Form 1.6

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| Journal Name: | Physical Science International Journal |
| Manuscript Number: | Ms_PSIJ_43610 |
| Title of the Manuscript: | Solutions of Schrödinger and Klein-Gordon Equations with Hulthen plus Inversely Quadratic Exponential Mie-Type Potential |
| 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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| Compulsory REVISION comments | <p>The authors of the article solved Schrodinger and Klien-Gordon equations by using NU method for a new potential and they obtained eigenvalues of energy and corresponding wave functions, then obtained special cases from the present potential and also the energy for different states. Thus, I added some comments to support this paper to ready to publish.</p> <p>1- I think the ALPHA has unit as ev</p> <p>2- When we deal with the centrifugal term by defining Greene Aldrich approximation, should take carefully ALPHA*r is small value less more than 1. It is better to plot the present potential when Alpha less than 1 and also r is less than 1.</p> | <p>The reviewer made a good suggestion.</p> <p>(1) Query: The unit of alpha should be in electron volts Response: We have added in manuscript that adjustable parameter alpha is measured in electron volt.</p> <p>(2) Query: Both apha and r should be plotted with values less than one which is well suited for Greene Aldrich approximation. Response: The reviewer is right. The authors actually took that into consideration and that is why if you check our figure 1, alpha ranges from 0.1 to 0.5 which is less than 1.0 while r is nanometre which (10^{-9} m) which is far more less than 1.0 and the value of alpha respectively. However, we authors thought it wise to study the behaviour of the potential when alpha is greater than 1.0 for the purpose of research which is found in figure 2. We discover that this novel proposed potential is valid for both small and large values of alpha and this is what make the research potential fantastic and credible.</p> |
| Minor REVISION comments | 1- Some misprints are found | |
| Optional/General comments | | |