



SDI Review Form 1.6

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 '**lac k of N o v elty**', 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 authors presented the solutions of Schrödinger and Klein-Gordon equations with a proposed a novel potential called HIQEMP. The parametric Nikiforov-Uvarov method has been employed to obtain the approximate solutions of Schrödinger and Klein-Gordon equations. The energy spectral diagrams were plotted for different screening parameter.</p> <p>The mathematical calculation through the paper is correct. But, there is lack of conclusion about the energy spectral diagram of Schrodinger equation and Klein-Gordon equation for different screening parameter. It should be explained in detail with some sentences. And it is not necessary to represent for the same graph for 5 different screening parameters values. It seems as an extra graph. Instead of graphs, same information sentences could be better. During forming the graphs and tables, the author must explain why he / she consider the parameters in line 314.</p> <p>The Klein Gordon equation was considered for equal vector and scalar potentials which is the simplest form. What happened if two potentials are taken as not equal? If it is possible to solve corresponding equations for $V(r) \neq S(r)$, it will be an important for physics interest.</p> <p>After modifying the study as in this form, the manuscript will be available for publication in your journal.</p>	<p>1 Comment:: The mathematical calculation is correct. Response: We thank the author for confirming the authenticity and correctness of our rigorous mathematical analytical calculations.</p> <p>2. Query: Lack of conclusion about energy spectral diagram Response: The authors gave good description of the energy spectral diagram. Please, kindly check the conclusion. It has been highlighted in yellow. Also, the detail explanation for both Schrodinger and Klein-Gordon is presented in Results and discussion.</p> <p>3. Query: Why table and graph in the same manuscript? Response: The numerical table is very relevant as a reference numerical table for other researchers. The graph demonstrated different energy spectral diagram for both Klein-Gordon and Schrodinger equation for different alpha, so, its very relevant.</p> <p>4. Query: Providing solutions for unequal vector and scalar potential Response: The authors are equal to the task but that will be considered in our next article where the wave functions will be applied to quantum information theory. However, for this current article we consider equal vector and scalar potential.</p> <p>5. Query: Why considering parameter in line 314. Response: Those adopted parameters s atisfies bound state condition.</p>
Minor REVISION comments	<p>There are some writing mistakes through the paper. Some of them are listed below.</p> <p>21 The energies..... (correct form: The energy.....)</p> <p>24 Klein-Gordon equation Nikiforov-Uvarov method,..... (Klein-Gordon equation, Nikiforov-Uvarov method,)</p> <p>63 Where (where.....)</p> <p>66 Figure 2 respectively. (Figure 2, respectively)</p> <p>100 Where (where.....)</p> <p>137-140... The sentences are written as backspace. It should be corrected.</p>	<p>Response: All the corrections have been effected.</p>



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	205 Equation (52) finally reduce to... (reduces to) 216 Equation (55) finally reduce to... (reduces to) 244 Where (where.....)	
Optional/General comments		