

## Review Form 1.7

Journal Name:	<b>Physical Science International Journal</b>
Manuscript Number:	<b>Ms_PSIJ_105475</b>
Title of the Manuscript:	<b>Medium and waves clarifying fundamental physics.</b>
Type of the Article	<b>Original Research Article</b>

### **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:

(<https://www.journalpsij.com/index.php/PSIJ/editorial-policy> )

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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)
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p><b>Comments on the paper entitled “Medium and waves clarifying fundamental physics”</b></p> <p>1) The text is generally well written in a style belonging to the <i>philosophy of science</i>.</p> <p>2) There is no physico-mathematical formulation in the text.</p> <p>3) That's why the text cannot be understood as a “physico-mathematical model” intended for the <i>qualitative</i> study of physical phenomena.</p> <p>-Mathematics is the main language of physics as a natural science, and the author failed to use such a language!</p> <p>-For instance, in <i>Abstract</i>, the author wrote:</p> <p>“As shown in this paper, by considering a medium (ether) in three-dimensional space, representing potential energy, and waves in this medium representing all physical objects and phenomena, all three can be much better connected and understood.”</p> <p>“All waves move with the velocity of light <math>c</math> which is only approximately constant because it is assumed to depend on medium density.”</p> <p>“As to the <i>quantitative</i> understanding, the waves are shown to connect to the mathematics of relativity and gravity”.</p> <p>However, in the text there is not a single explicit equation or any physico-mathematical expression reflecting and reinforcing the author's assertions. And as a direct consequence, the reader can ask a lot of questions, among which:</p> <p>i) The said three-dimensional space is Euclidean or non-Euclidean and what is its mathematical representation?</p> <p>ii) Since, according to the author, light speed is supposed to be approximately constant because it is assumed to depend on medium density thus, in this case, what is the expression of the wave equation?</p> <p>iii) What is equation representing the said connection?</p> <p>-Conclusion: Given these shortcomings the manuscript requires major revisions.</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b>Optional/General</b> comments</p>		

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	<b>Mohamed E. Hassani</b>
Department, University & Country	<b>Institute for Fundamental Research, Algeria</b>