



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_22112
Title of the Manuscript:	A possible microscopic model for gravitational interaction
Type of the Article	Opinion 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>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment <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>
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments	<p>In this article, a possible explanation of the origin of graviton is proposed. In particular, the gauge bosons are considered to be produced by the Higgs Boson, and therefore they might correspond to be gravitons. The idea is interesting. Thus, this paper might be worthy of being published if the following points are reconsidered.</p> <ol style="list-style-type: none"> 1. If there is any past work in which the similar idea/investigation to this work, namely, gravitons might correspond to the gauge bosons, by comparing with such a past study, the novel ingredients and important progresses of this work should be described more explicitly and in more detail. Through this process, the differences between this work and the past studies can be seen more clearly. 2. Presumably, is it possible to evaluate the relative ratio of photon to graviton intensities by other physical laws in addition to the Heisenberg's Uncertainty Principle? 	<p>Thanks for the critical reading of the MS finding it worth for publication. Following changes have been made according to the respected reviewer's comments.</p> <ol style="list-style-type: none"> 1. Highlighted section has been added between the lines 30-36 and differences have been explained with new references. 2. The ratio has also been evaluated by Quantum Field Theory (QFT) in the standard model. However they also use HUP and our calculation predicts the non-stability of Higgs bosons and fits well with QFT.



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	3. In Abstract, it seems it is better that the presentation would be rewritten in order to clearly state the idea that the gauge bosons might correspond to be gravitons.	3. It has been stated and highlighted in the abstract.
<u>Optional/General</u> comments	It is recommended that the English wordings and small typos should be rechecked throughout the present manuscript.	It has been done so and the changes are highlighted throughout the MS.