



**SDI Review Form 1.6**

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	Ms_PSIJ_37327
Title of the Manuscript:	Mesoscopic RLC Circuit and its Associated Occupation Number and Berry Phase
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)
<b>Compulsory</b> REVISION comments	-----	
<b>Minor</b> REVISION comments	<ol style="list-style-type: none"> <li>1. This is a good manuscript describing the use of harmonic oscillator to obtain the occupation number and Berry phase of RLC circuit.</li> <li>2. This manuscript may be published with minor revisions below.</li> <li>3. The reasoning for the time dependent mass <math>[M(t)]</math> to be equal to the inductance (L) multiplied by an exponential function is still unclear. This might be some kind of a correspondence between the time-dependent harmonic oscillation and the mesoscopic RLC circuit.</li> <li>4. In equation (22), as the occupation number does not depend upon time, hence the time dependency on the LHS of the equation need not be written.</li> <li>5. The discussion (or comparison) upon the different solutions via the Ermakov the Milne-Pinney equations are not yet properly discussed.</li> </ol>	<ol style="list-style-type: none"> <li>3. The reviewer is correct, the time-dependent mass of the RLC circuit is a correspondence between the mass of the time-dependent harmonic oscillator and the mesoscopic RLC circuit. Here, I am just making a correspondence with (1) and (18). After (18), I changed the sentence to illustrate the comparison between the two Hamiltonians and the identification of the time-dependent mass.</li> <li>4. I have corrected (22) and removed the time-dependence from the LHS.</li> <li>5. I have added more discussion about the different solutions via the Ermakov and the Milne-Pinney equations to the Conclusion section of the paper, primarily paragraphs 3 and 4.</li> </ol>
<b>Optional/General</b> comments		