



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2015_PSIJ_18439
Title of the Manuscript:	Modified Lee-Low-Pines Polaron in Spherical Quantum Dot in an Electric Field. Part 2: Weak Coupling and Temperature Effect
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>)



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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)
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments	This is an interesting, well-presented manuscript. The English needs cleaning up, although this can be readily done by the editorial staff of the journal. One suggestion I have is for the author(s) to including a paragraph that ties their calculations and results to a realistic quantum dot system.	In the result and discussion section, we have included the following: The mesoscopic phenomena have gained more importance as a basis for novel electronic and optical devices. It is necessary to formulate models that describe physical phenomena associated with Nano crystals. This study is in accordance with this philosophy. Therefore, from our study and results, it is clear that the coupling between the electron and the phonon can explain properties of novel electric and optical devices. Temperature effect and the application of the electric field enhance the polaron ground state energy and the polaron tends to a highly localized state. This gives the possibility for the most favorable condition for a stable bipolaron and bipolaron superconductivity [29-34] Also the full text was giving to a native English speaker/writer for its general linguistic improvement.
<u>Optional/General</u> comments		