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Journal Name:	**Physical Science International Journal**
Manuscript Number:	**2014_PSIJ_12576**
Title of the Manuscript:	**Electron energy levels for a finite elliptical quantum wire in a transverse magnetic field**
Type of the Article	**Research paper**

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.
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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)*
Compulsory REVISION comments	To my opinion, in the present form the paper under review cannot be published for the following reasons: 1. Some of the statements and claims of the Author/Authors are unclear or simply wrong. For instance, page 1, the lines 25-26 :"... due to lithographic processing, and in high density by the use of..." *etc*. It is absolutely unclear what does it mean: "... in high density.." 2. Page 2, the lines 51-52; "...elliptical dimensions." What does it mean "elliptical dimensions"? Perhaps the Author/Authors would like to say "elliptical shape"? 3. The Author/Authors claim(s) that operator p_z commutes with the Hamiltonian (2) of the paper, and it is correct, but later on he/they claim(s) that it means "the problem is still 2D" which is obviously wrong. Indeed, let us suppose that the sizes of the quantum wire (QW) cross-section is much grater than the Fermi's wave length of the electron, but the magnetic field is still present. Then we can neglect the space quantisation in *x*-*y*	

	plane, however the Landau quantisation in *y*-*z* plane due to magnetic field would be present. In external magnetic field the particle motion "is not quantized" only along the field direction (in the geometry considered by the Author/Authors it is *x*-axis) but it is quantized in the plane perpendicular to it, that is, in *y*-*z* plane . Now let us diminish the QW cross section and make it comparable or less than Fermi's wave length of the electron. It is obvious that now we should take into account not only Landau quantization in *y*-*z* plane, but also the space quantization in *x*-*y* plane. So, the problem is 3D, but not 2D as the Author/Authors claim(s). The fact that p_z operator commutes with the Hamiltonian has nothing to do with it. Another strange statement is the choice of p_z=0. This choice is absolutely ungrounded and contradicts even the Author/Authors' own statement that the component of the wave function depending on *z*-coordinate is a plane wave. The paper is written in the slovenly manner, there are many misspellings (page 2, line 43 "magnetopoiaron"; it should be "magnetopolaron"). Line 47 in the same page: "Among the papers, electron energy spectrum..." *etc.* and these are only a handful of examples. The general comment is that the paper has to be substantially revised, it needs not only cosmetic	

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	corrections but essential amendments related to the very concept of the paper, if the Author/Authors would like it to be published. The same is the quality of English is concerned, Author/Authors should consult it with the native-speaker of English or at least with somebody who is better command this language.	
Minor REVISION comments		
Optional/General comments	I cannot recommend the paper to be published in its present form. It needs substantial revising and corrections.	

Note: Anonymous Reviewer