



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_14201
Title of the Manuscript:	A natural solution to the dark energy problem
Type of the 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)
Compulsory REVISION comments	After reading the manuscript entitled "A natural solution to the dark energy problem", I found the topic interested, however, I would like to suggest the following points before the paper will be accepted for publication: 1-First of all, some solutions to the dark energy problem were addressed in many references not cited. I suggest their citations: e.g. arxiv: 1201.4594; arXiv:1407.8414; Physics Letters B687, 75, 2010; arXiv:1405.2776; Phys. Rev. D 87, 043519, 2013; arxiv: 1404.0532; Int.J.Mod.Phys. A28, 1350085 (2013); J. Theor. Appl. Phys. 7, 58 (2013); Galaxies 2, 72 (2014); Research in Astron. Astrophys.11, No. 8, 888 (2011); International Journal of Theoretical Physics;Vol. 52 Issue 1, 9, (2013); European Phys. J. P. 128, 55 (2013); European Phys. J. P. 126, 114 (2011); Research in Astron. Astrophys. 11, No.7, 759 (2011) and so on... 2-in the 5th line after equation 1, what is "i" after ρ-t? does the author means $i^2=-1$? a complex number? this is not very clear as if there is an imaginary contribution, what will be the form of the einstein field equations or the stress energy momentum tensor? plz check Physics Letters B 733C (2014), pp. 305-308, Phys.Lett. B621 (2005) 11-17;	1. Thanks for your suggestions. I have put more references in the revised manuscript. 2. Since my calculations are based on the Friedmann equations, which follow from the Einstein field equations and the stress energy momentum tensor, the form of these equations would be the same. The motivation of the imaginary contribution is based on the possibility of the existence of tachyonic matter. In this paper, I would like to examine what would be the consequence if there exists some tachyonic matter (speed greater than the speed of light) with imaginary energy. Surprisingly, the results match some recent observational data and provide a natural solution to the dark energy problem.



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	How we can include an imaginary contribution in the field equations? motivations are unclear. Usually, tachyonic matter are introduced by means of string arguments. I suggest a careful revision of these points.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		