



SDI Review Form 1.6

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| Journal Name: | Physical Science International Journal |
| Manuscript Number: | 2014_PSIJ_12727 |
| Title of the Manuscript: | Electromagnetic fields of self-modes in spherical resonators |
| 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) |
|-------------------------------------|---|---|
| Compulsory REVISION comments | <p>This article concerns the Maxwell-Einstein theory of the electromagnetic fields.</p> <ol style="list-style-type: none"> 1. The author should do a detailed explanation for the curves coincide in Fig.1 (a), and the different in Fig.1 (b)(c)(d). 2. In the part "3. ELECTROMAGNETIC FIELDS OF THE SELF-MODES OF SPHERICAL RESONATORS", can the author give the explicit solutions for the radial parts of the complex field amplitudes? 3. The rather should have a detailed description for the "Electromagnetic field of the instanton and the magnitude A_0 were calculated in [2] and [10]" in line 158. 4. It should be the part 4 in line 169. 5. The author should have a detailed explain about "For the eigenfields of higher order electromagnetic fields are isotropic". 6. The author should have an explicit conclusion about their article. | <ol style="list-style-type: none"> 1. I rewrite this section of article. I have found simplest expression for $w_k(\Delta\theta)$ (formula (4)). The reason of difference between pictures b) – d) and a) in Fig.1 is interference of different terms in formula (4) for $w_k(\Delta\theta)$. 2. This has been already done for free space in my previous articles (see [2], [3] and [10] in the References). In this paper it is not so important as the treating is limited to the quasi-classical approximation, which is sufficient to crosslink the converging and diverging waves. In the same asymptotic region where the distortion of metric is small radial solutions are described by the same expressions that without distortion metric, i.e. by formulas of Maxwell's electrodynamics. 3. See [10], which will be published in the PSIJ soon (#12654). I think that there is no sense to repeat pieces of that article here 4. Done 5. I tried to make it as far as possible 6. Explicit conclusion would mean revising current understanding of the relationship of the observed cosmic microwave background radiation and the structure of the universe. I give my readers to do this. <p>Thanks for good revision!</p> |
| Minor REVISION comments | | |
| Optional/General comments | | |