

Manuscript ID: universe-2729463

Title: Graviton to photon conversion in curved space-time and external magnetic field

Authors: Alexander Dolgov, Lyubov Panasenko, Vladimir Bochko

Dear Editor,

I have examined the second revised manuscript, "Graviton to photon conversion in curved space-time and external magnetic field," by Dolgov et al.

The authors have thoroughly revised the manuscript in accordance with my previous comments. I am happy to recommend the publication of the manuscript in Universe.

Before finalizing, I recommend the authors consider the following two remaining points.

1. Although the effect became negligible in the revised manuscript, I still suspect the sign immediately after the k^2/a^2 term in the fourth line of (9.0.10). I strongly recommend the authors recheck the algebra before publication.
2. Although the authors emphasized that the suppression is due to the quantum correction, the term in the fourth line from the bottom on page 35 is not the Heisenberg-Euler quantum correction. I suggest the authors check whether the suppression is due to this classical term or the Heisenberg-Euler quantum correction.

I will leave these recommendations to the authors to take care of. The manuscript can be published, and I do not need to recheck the manuscript.

Sincerely yours,