

**Date:** Sep 22, 2025  
**To:** "Lin Teixeira de Sousa" luigi.tiraque@gmail.com  
**From:** "Annals of Physics" support@elsevier.com  
**Subject:** AOP 81029R2 accepted

Ms. AOP **81029R2**

Title: A Loop Quantum Gravity Inspired Action for the Bosonic String and Emergent Dimensions at Large Scales

Corresponding Author: Mx. Lin Teixeira de Sousa

Annals of Physics

Dear Dr. Teixeira de Sousa:

I am pleased to accept your manuscript, referenced above, for publication.

Please note that your paper will now be sent to the production office for further processing. If you have any questions during this next stage, please contact me at ([aop@elsevier.com](mailto:aop@elsevier.com)).

Annals of Physics has partnered with **Cassyni** to launch a Seminar Series ([https://cassyni.com/s/annals-of-physics?utm\\_source=elsevier&utm\\_medium=email&utm\\_campaign=annals-of-physics](https://cassyni.com/s/annals-of-physics?utm_source=elsevier&utm_medium=email&utm_campaign=annals-of-physics)), which provides AOP authors with a unique opportunity to showcase their latest findings in an accessible and engaging way, maximizing reach and impact.

The editorial board would like to invite you to pre-record a seminar about the work, and submit it for publication in the Seminar Series. To accept the invitation please follow this unique link: [https://cassyni.com/publish/annals-of-physics?utm\\_source=elsevier&utm\\_medium=email&utm\\_campaign=annals-of-physics](https://cassyni.com/publish/annals-of-physics?utm_source=elsevier&utm_medium=email&utm_campaign=annals-of-physics)

We encourage authors of original research papers to share the research objects – including raw data, methods, protocols, software, hardware and other outputs – associated with their paper. More information on how our open access Research Elements journals can help you do this is available at [https://www.elsevier.com/authors/tools-and-resources/research-elements-journals?dgcid=ec\\_em\\_research\\_elements\\_email](https://www.elsevier.com/authors/tools-and-resources/research-elements-journals?dgcid=ec_em_research_elements_email).

Thank you for submitting your work to Annals of Physics.

Yours sincerely,

prof Robert de Mello Koch  
Co-Editor  
Annals of Physics

Reviewer's comments:

Reviewer #1: The authors have addressed all the points raised in the previous review. The revisions have improved the manuscript, resulting in a more robust analysis.

While some of the introduced concepts remain novel and would require further investigation to be fully validated, the authors appropriately acknowledge this in the text, framing them as promising directions for future work.

I recommend a careful proofreading to resolve the following minor technical points:

1. Formatting of Revisions: The use of color-coding for edits (e.g., red for old text, blue with underlining for new text) appears inconsistent, particularly within mathematical expressions. A final check is needed to ensure all intended changes are correctly implemented and visible.
2. Cross-References: Some internal cross-references (e.g., to equations or figures) are not properly formatted and appear as raw commands. These should be verified and corrected.

Once these minor issues are resolved, I recommend the manuscript for acceptance.

%ATTACH\_FOR\_REVIEWER\_DEEP\_LINK INSTRUCTIONS%

\*\*\*\*\*

For further assistance, please visit our customer support site at <http://help.elsevier.com/app/answers/list/p/7923>.

Here you can search for solutions on a range of topics, find answers to frequently asked questions and learn more about EM via interactive tutorials. You will also find our 24/7 support contact details should you need any further assistance from one of our customer support representatives.

At Elsevier, we want to help all our authors to stay safe when publishing. Please be aware of fraudulent messages requesting money in return for the publication of your paper. If you are publishing open access with Elsevier, bear in mind that we will never request payment before the paper has been accepted. We have prepared some guidelines (<https://www.elsevier.com/connect/authors-update/seven-top-tips-on-stopping-apc-scams> ) that you may find helpful, including a short video on Identifying fake acceptance letters (<https://www.youtube.com/watch?v=o5l8thD9XtE> ). Please remember that you can contact Elsevier s Researcher Support team (<https://service.elsevier.com/app/home/supporthub/publishing/>) at any time if you have questions about your manuscript, and you can log into Editorial Manager to check the status of your manuscript ([https://service.elsevier.com/app/answers/detail/a\\_id/29155/c/10530/supporthub/publishing/kw/status/](https://service.elsevier.com/app/answers/detail/a_id/29155/c/10530/supporthub/publishing/kw/status/)).

#ED\_AOP#

To ensure this email reaches the intended recipient, please do not delete the above code

---

*In compliance with data protection regulations, you may request that we remove your personal registration details at any time. ([Remove my information/details](#)). Please contact the publication office if you have any questions.*