

**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).

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-phys](https://cassyni.com/s/annals-of-physics?utm_source=elsevier&utm_medium=email&utm_campaign=annals-of-phys)), which provides AOP authors with a unique opportunity to showcase their latest findings in an accessible and engaging way, maximizing reach and impact.

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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.

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