

Peer Review

Review of: "Quantization of Nonlinear Transmission Line Dynamics With Noise: Some Remarks on Noise in Quantum Field and Quantum Neural Network Theories"

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Reviewer Comments:

The authors used the well-known Hudson-Parthasarathy theory of quantum stochastic differential equations to look into the problem of quantizing how a transmission line changes over time. The authors derived these equations from the Hudson-Parthasarathy noisy Schrödinger equation, which involved the right transmission line Hamiltonian and Lindblad operators. It is interesting, but I have the following queries and suggestions.

1. The authors should add relevant keywords.
2. The authors should write the motivation for the study in the introduction.
3. In Section 1, the authors started the distributed parameter circuit, but I didn't see it anywhere. The authors should draw the pictorial representation.
4. I strongly recommend that the authors incorporate recent references in the introduction section to enhance its comprehensiveness.
5. After completing every equation, use a comma or full stop. Based on the comma and full stop, start small or capital letters in the sentences. Following that, reduce the grammatical and typographical errors.
6. For the betterment of the paper, the authors should include a few figures for readers.

After implementing the required changes, the paper can be accepted for publication.

Declarations

Potential competing interests: No potential competing interests to declare.