Retraction: Entanglement witnesses mediated via axionlike particles [Phys. Rev. D 111, 115005 (2025)]

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After reviewing the original article, we found several computational mistakes that affect the results in Figs. 4 and 5. After the publication of the paper, we were contacted by Jing Ren and Si-Mao Guo who told us that they were trying to recreate the calculations in the paper. When the plots were computed again, we realized that in the corrected versions of the plots, we were not able to find a region within the reasonable parameter range where the entanglement witness curve would fall outside of the regions forbidden by the experiments. Since these two figures were representative of the strongest conclusions in the work, and these errors invalidate them, we consider that the paper should be retracted from the journal. We acknowledge Jing Ren and Si-Mao Guo for pointing out the mistakes in our work.

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