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Lattice QCD calculation of the two-photon exchange contribution to the muonic-hydrogen Lamb shift

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The measurement of muonic-hydrogen spectroscopy provides the most precise determination of the proton charge radius, where the two-photon exchange contribution plays an important role in the understanding of μH spectroscopy. We will report a lattice QCD calculation of the two-photon exchange contribution by constructing the proton four-point correlation function.

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