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Light flavor-singlet pseudoscalar in J/ψ radiative decay

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Experiments show that the flavor-singlet pseudoscalars usually have large production ratios in the radiative decays of J/ψ .

In this work we perform the first lattice investigation on this topic based on a gauge ensemble generated on an anisotropic lattice with two degenerate light dynamical quarks. The mass parameter of the light quarks is tuned to give a pion mass around 300 MeV. The annihilation diagrams of light quarks are calculated using the distillation method.

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