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Hadron spectroscopy and exotics (experiment and theory)

Experiment: CLEO

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# Anti-Search for the Glueball Candidate $f_J(2220)$ in Two-Photon Interactions

CLEO Collaboration

## Abstract

Using  $13.3 \text{ fb}^{-1}$  of  $e^+e^-$  data recorded with the CLEOII and CLEO II.V detector configurations at CESR, we have searched for  $f_J(2220)$  decays to  $K_S^0 K_S^0$  in untagged two-photon interactions. We report an upper limit on the product of the two-photon partial width and the branching fraction,  $\Gamma_{\gamma\gamma} \mathcal{B}(f_J(2220) \rightarrow K_S^0 K_S^0)$  of less than 1.1 eV at the 95% confidence level; systematic uncertainties are included. This dataset is four times larger than that used in the previous CLEO publication.

Version 1

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