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Hadron spectroscopy and exotics (experiment and theory)

Experiment: CLEO

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Preliminary CLEO-III results on two-photon cascades from the $\Upsilon(3S)$ Resonance

CLEO Collaboration

Abstract

The CLEO-III experiment has recently accumulated and processed a large statistics sample of $\Upsilon(3S)$ decays. We present preliminary results for the two-photon cascade transitions between the $\Upsilon(3S)$ and either $\Upsilon(2S)$ or $\Upsilon(1S)$. Two-photon transition rates via the $\chi_b(2P)$ states and rare transition rates via the $\chi_b(1P)$ states are measured with much improved statistical precision.

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