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Hadron spectroscopy and exotics (experiment and theory)

Experiment: CLEO

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First observation of $\Upsilon(1D)$ state

CLEO Collaboration

Abstract

The CLEO-III experiment has recently accumulated and processed a large statistics sample of $\Upsilon(3S)$ decays. We present preliminary evidence for production of the triplet $\Upsilon(1D)$ states in the four-photon cascades between the $\Upsilon(3S)$ and $\Upsilon(1S)$ resonances.

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