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Hadron spectroscopy and exotics (experiment and theory)

Experiment: CLEO

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## Search for $\Upsilon(3S) \rightarrow \gamma\eta_b$

CLEO Collaboration

### Abstract

We have searched for the hindered magnetic dipole (M1) photon transition  $\Upsilon(3S) \rightarrow \gamma\eta_b$ . No evidence for such a transition is found in the data collected with the CLEO detector. We set upper limits on the branching ratio for a wide range of  $\eta_b$  masses which rule out many previously published phenomenological estimates of the rate for this transition.

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