

Abstract Submitted
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Hadronic Transitions in the Bottomonium System TODD PEDLAR, Luther College, CLEO COLLABORATION — The CLEO experiment has collected 5.9 million $\Upsilon(3S)$ and 8.8 million $\Upsilon(2S)$ decays. We report results from studies of both charged and neutral two-pion transitions: $\Upsilon(3S) \rightarrow \Upsilon(2S)\pi\pi$, $\Upsilon(3S) \rightarrow \Upsilon(1S)\pi\pi$ and $\Upsilon(2S) \rightarrow \Upsilon(1S)\pi\pi$. We report measurements of the branching ratios for these transitions, the two-pion invariant mass distributions, and the decay matrix elements for the transition. These measurements can be extended to searches for other hadronic transitions (including those involving η) within the bottomonium system.

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