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Study of Two-Body Radiative $\Upsilon(1S)$ Decays into the Exclusive Final States $\gamma\pi^0\pi^0$, $\gamma\pi^0\eta$ and $\gamma\eta\eta$ HOLGER STOECK, University of Florida, CLEO COLLABORATION — We report on a new study of exclusive radiative decays of the $\Upsilon(1S)$ resonance into the final states $\gamma\pi^0\pi^0$, $\gamma\pi^0\eta$ and $\gamma\eta\eta$ with $\eta \rightarrow \gamma\gamma$ which were collected with the CLEO III detector operating at the Cornell Electron Storage Ring. In the channel $\gamma\pi^0\pi^0$ we present branching ratio and helicity amplitude measurements for the decay mode $\Upsilon(1S) \rightarrow \gamma f_2(1270)$. In addition, we place upper limits on branching ratios for the isoscalar resonances $f_0(1500)$ and $f_0(1710)$ in the $\pi^0\pi^0$, $\pi^0\eta$ and $\eta\eta$ decay channels.

David Asner
University of Pittsburgh

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