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Study of orbitally excited B mesons at CDF JENNIFER PURSLEY, Johns Hopkins University, CDF COLLABORATION — Using data collected by the Run II Collider Detector at Fermilab (CDF), we study the properties of the lowest orbitally excited (L = 1) B mesons, collectively denoted as the B^{**}. We reconstruct B^{**} candidates in two B^+ decay channels: $B^+ \to J/\psi K^+$, $J/\psi \to \mu^+\mu^-$ and $B^+ \to \bar{D}^0\pi^+$, $\bar{D}^0 \to^+ \pi^-$. Through a simultaneous fit of both channels, we measure the masses of the two narrow B^{**} states.

Matthew Herndon
University of Wisconsin

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