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Search for Rare Radiative Decay $W \to \pi\gamma$ in ppbar Collisions at $\sqrt{s} = 1.96$ TeV CHRISTOPHER LESTER, University of Pennsylvania, PAVEL MURAT, Fermilab, THOMAS PHILLIPS, AL GOSHAW, ANDREA BOCCI, Duke University, CDF COLLABORATION — We present a search for the rare radiative decay $W \to \pi\gamma$ using $4.3 fb^{-1}$ of data collected from proton-anti proton collisions at $\sqrt{s} = 1.96$ TeV by the CDF experiment at Fermilab. As no signal is observed, we set a 95% CL upper limit on the relative branching fraction bratio at 6.4×10^{-5}, a factor of 10 improvement over the existing limit.

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