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Search for Doubly-Charmed Baryons in CDF Data ADITHYA KUCHIBHOTLA, University of Illinois at Urbana-Champaign, CDF COLLABORATION — Heavy flavor baryon spectroscopy provides insights into production and binding mechanisms of hadrons and the properties of QCD that are not very well understood. For doubly-charmed baryons, SELEX originally reported observations of Ξ_{cc}^{+} and Ξ_{cc}^{++}, at masses of 3519 MeV/c^2 and 3620 MeV/c^2 respectively. LHCb reported the observation of Ξ_{cc}^{++} with a mass of 3621 MeV/c^2. We report on the status of a search for doubly charmed baryons using 1.96 TeV $p\bar{p}$ data using the CDF detector at the Fermilab Tevatron. Using the displaced-track trigger, we perform this search using 5- and 6-charged track final states. Complementary modes are used for calibration and normalization.

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