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Single top production in ppbar collisions at $\sqrt{s}=1.96$ TeV with the D0 detector

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We present measurements of the single top production cross in ppbar collisions at $\sqrt{s}=1.96$ TeV using data collected with the D0 detector and corresponding to up to 5.4 fb^{-1} of integrated luminosity. We obtain both measurements of the inclusive production cross section as well measurements for the separate s- and t-channel production processes. These measurements are used to set constraints on the $|V_{tb}|$ element of the CKM matrix. We also investigate for possible CP violation in the production of single top quarks and for the existence of possible resonances in the s-channel.

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