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Search for Single Top Quark Production at DØ LIANG LI, University of California, Riverside, DZERO COLLABORATION — Protons and antiprotons are collided in Run II at the Fermilab Tevatron at a center of mass energy of 1.96 TeV. We present results of an improved search for single top quark production in these collisions using a dataset of approximately 360 pb^{-1} collected with the DØdetector. This analysis considers both production modes, s-channel tb and t-channel tqb, and makes use of secondary-vertex tagging to identify jets originating from b quarks as well as neural networks to separate the expected signals from backgrounds.

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