

Abstract Submitted
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Measurement of the Top Pair Production Cross Section in the Muon+Jets Channel at DØ Using Topological Information NILS GOLLUB, Uppsala University, Sweden, DZERO COLLABORATION — Measurement of the top quark pair ($t\bar{t}$) production cross section at hadron colliders can be used to test perturbative QCD predictions. Within the Standard Model, the top quark almost always decays to a W boson and a b quark. We present a measurement of the $t\bar{t}$ production cross section at $\sqrt{s} = 1.96$ TeV in $p\bar{p}$ collisions using approximately 370 pb^{-1} of data collected by the DØ experiment during Run II of the Fermilab Tevatron collider. This measurement is performed in the muon+jets final state and exploits the differences in event topology between the $t\bar{t}$ signal and the background.

Sharon Hagopian
Florida State University

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