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Measurement of the top quark production cross section and the differential distributions of top quarks with the D0 detector

We present the most recent measurement of the top quark pair cross section with the D0 detector at the Tevatron proton-antiproton collider in lepton plus jet and dilepton channels and the measurements of differential distributions of top quarks in the lepton plus jet channel using full D0 Run II data. The measured spectra, binned in several observables, are compared to those obtained from Monte Carlo simulation and perturbative QCD at approximate NNLO. We also present a search for the s-channel electroweak production of top quarks.

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