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Measurement of the top quark polarization with the D0 detector

We present new measurements of the top quark polarization using the D0 detector at the Fermilab Tevatron Collider. We use the lepton+jets decay channel to measure angular distributions and extract the polarization of the top quark in different basis and compare to the SM expectation. The full Run II D0 data sample is used for this measurement, which corresponds to an integrated luminosity of 9.7 fb^{-1} .

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