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Top quark physics from Tevatron

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An overview over recent measurements of top quark properties from the CDF and D0 experiments at the Tevatron proton-antiproton collider is given. We focus on results that are complementary to measurements at the LHC. The results are presented in a systematic way analyzing the top quark pair production mechanism. The presented results involve a new $t\bar{t}$ cross section measurement, a top quark pole mass extraction, top quark polarization measurements, new measurements of the forward-backward $t\bar{t}$ asymmetry and a new analysis of $t\bar{t}$ spin correlation. Special emphasis is given to the question about how these high precision measurements can be used to perform sensitive searches for new physics. Most of the results are Tevatron legacy measurements.

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Classification de Session: Standard Model

Classification de thématique: Experiment