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Direct measurement of the top quark mass in $p\bar{p}$ collisions at D0

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We report the most recent measurements of the mass of the top quark, performed by the D0 experiment at the Fermilab Tevatron collider using the full Run II (2001–2011) data set corresponding to an integrated luminosity of 9.7 fb^{-1} . This includes measurements in the dilepton channels using the matrix element and neutrino weighting approaches, as well as measurements in the lepton+jets channel using the matrix element method. We also discuss the final D0 combination and the preliminary D0+CDF combination of the top quark mass using Run I (1992–1996) and Run II measurements.

Primary authors: Prof. HIROSKY, Bob (Virginia); Dr TUCHMING, Boris (Saclay); COLLABORATION, D0 (Fermilab)

Presenter: BERNARDI, Gregorio (LPNHE Paris)

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