

Top quark mass measurements at CDF and Tevatron combinations

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We report the results of the measurements of the top quark mass using top pair events corresponding to an integrated luminosity of more than 4 fb⁻¹ from proton-antiproton collisions at the Tevatron, recorded by the CDF II detector. We present different results using various techniques in the lepton+jets, dilepton, and all-jets channels, and describe the current status of the systematic uncertainties. We present also a combination by the TevEWVG (Tevatron electroweak working group) of the best top mass results from CDF and D0 in Run 1 and Run 2 of the Tevatron. This result is the current world average, and offers an uncertainty almost reaching 1 GeV. The new mass value has been included in traditional LEP EWVG fits to precision electroweak data, and implications for the Standard Model Higgs have been derived.

Primary author: Mr LINACRE, Jacob (Oxford)

Presenter: Mr LINACRE, Jacob (Oxford)

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