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## Tevatron combined top quark mass

We summarize the top-quark mass measurements from the CDF and D0 experiments at Fermilab. We combine published Run I (1992–1996) measurements with the most precise published and preliminary Run II (2001–2012) measurements using a data set corresponding to up to 8.7/fb of ppbar collisions. Taking uncertainty correlations into account, and adding in quadrature the statistical and systematic uncertainties, the resulting preliminary Tevatron average mass of the top quark is  $m_t = 173.20 \pm 0.87 \text{ GeV}/c^2$ .

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