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Tevatron and LHC top mass combinations

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The top quark is the heaviest known elementary particle and its mass is a free parameter of the Standard Model. The CDF and D0 collaborations have previously measured the top quark's mass using the top quark pairs produced at the Tevatron proton-antiproton collider in many decay channels. We present here the combination of all published measurements with an integrated luminosity up to 5.8 fb⁻-1 using a proper treatment of the uncertainty correlations between different measurements. This combination leads to the most precise top quark mass determination with a relative precision of 0.54%.

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