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Measurement of the top quark mass in ppbar collisions using events with two leptons (D0)

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The mass of the top quark is a fundamental parameter of the standard model and has to be determined experimentally. The D0 experiment at the Fermilab Tevatron proton-antiproton collider with a centre-of-mass energy of 1.96 TeV has measured the top quark in various channels. We present the most recent measurements of the top quark mass in the dilepton and lepton+jets channels with up to 5.3 fb⁻¹ as well as their combination and give an outlook on the final, most precise measurement of the top quark mass at D0.

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