## Measurements of the W boson mass with the D0 detector

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We present a measurement of the W boson mass using data corresponding to an integrated luminosity of 4.3 fb-1 collected with the D0 detector during Run 2 at the Fermilab Tevatron ppbar collider. With a sample of 1,677,394 W-> e nu candidate events, we measure  $M_W = 80.367 + 0.026$  GeV. This result is combined with an earlier D0 result determined using an independent Run 2 data sample, corresponding to 1 fb-1 of integrated luminosity, to yield  $M_W = 80.375 + 0.023$  GeV.

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