

Measurement of the W Boson Mass and Width with 1 fb⁻¹ of D0 Run II Data

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We present the most precise single measurement of the W boson mass and a measurement of the W width using data collected with the D0 experiment. An integrated luminosity of 1 fb⁻¹ yields 499,830 W⁻→eν candidates. The mass is measured with an uncertainty of less than 45 MeV while the width uncertainty is less than 75 MeV.

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