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Measurement of the W boson mass at CMS

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The W boson mass is measured using proton-proton collision data at $\sqrt{s}=13$ TeV corresponding to an integrated luminosity of 16.8 inverse fb recorded during 2016 by the CMS experiment. The W boson mass is extracted using single-muon events via a highly granular maximum likelihood fit of the transverse momentum, pseudorapidity, and charge distribution of the selected muons, yielding one of the most precise measurements of the W mass to date

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