

Measurements of W charge asymmetry (20+10min)

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We present W boson and lepton charge asymmetry measurements from W decays in the electron channel, with 9.7 fb^{-1} of RunII data collected by the D0 detector at the Fermilab Tevatron Collider. The electron charge asymmetry is presented as a function of the electron transverse momentum and pseudo-rapidity out to $|\eta| \leq 3.2$; we also give the W charge asymmetry as a function of W boson rapidity. The asymmetries are compared with next-to-leading order perturbative quantum chromodynamics calculations. These charge asymmetry measurements will allow more accurate determinations of the proton parton distribution functions.

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