



Contribution ID: 181

Type: Oral Presentation

Recent measurements of electroweak boson properties at D0

Thursday 1 August 2019 16:48 (24 minutes)

We present a measurement of the shape of the Z boson rapidity for $Z/\gamma^* \rightarrow \mu^+ \mu^-$ produced in $p\bar{p}$ collision at $\sqrt{s} = 1.96$ TeV. We use 8.6 fb^{-1} of $p\bar{p}$ data collected by the D0 detector at the Tevatron collider. The results are compared to NNLO QCD predictions using different sets of Parton Density Functions. We also present a measurement of the shape of the transverse momentum distribution for W boson in the $W \rightarrow e\nu$ decay channel using 4.2 fb^{-1} of $p\bar{p}$ data at $\sqrt{s} = 1.96$ TeV.

Authors: HIROSKY, Bob (University of Virginia (US)); TUCHMING, Boris (Université Paris-Saclay (FR)); D0, Collaboration (Fermilab); BLOOM, Kenneth (University of Nebraska Lincoln (US))

Presenter: BLOOM, Kenneth (University of Nebraska Lincoln (US))

Session Classification: Higgs & Electroweak Physics

Track Classification: Higgs & Electroweak Physics