The CMS Preliminary results for the total cross-section $\sigma_{\text{tot}}$ in $W$ production are shown for different PDF sets, including NNPDF3.0, CT14, MMHT2014, ABM12LHC, and HERAPDF15. The data points are overlaid with the expected uncertainty bands, reflecting the experimental and theoretical uncertainties. The observation is compared with the prediction from FEWZ (NNLO) theory, with NNPDF3.0 as the reference PDF set. The total cross-section is given in pb, with uncertainties for both the experimental and the theoretical contributions. The CMS data at 43 pb$^{-1}$ (13 TeV) is presented, with the theoretical prediction overlapping with the observed data within the uncertainties.