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Measurement of the W Lepton Charge Asymmetry in CMS at $\sqrt{s}=7$ TeV

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We present a measurement of the lepton charge asymmetry in $pp \rightarrow W \rightarrow l\nu$ decays at $\sqrt{s}=7$ TeV with the CMS detector at the LHC. Results are presented corresponding to 36 pb^{-1} of integrated luminosity for both the electron and muon channels in 6 bins of lepton pseudorapidity up to $|\eta|=2.4$ and $|\eta|=2.1$ respectively. The measurements are compared with theoretical predictions and the results are expected to provide additional constraints on the parton distribution functions of the proton.

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