Uncertainties on charge asymmetry for $W \rightarrow l\nu | \eta | < 2.4$

Relative uncertainty (%)

- lepton scale
- efficiency stat.
- luminosity
- efficiency syst.
- other bkg
- fakes
- FSR
- $R_\mu$, $R_\mu$, $F_\mu$
- PDFs $\oplus \alpha_s$
- L1 prefire
- other experimental
- statistical
- MC statistics
- Total uncertainty

CMS Preliminary

35.9 fb$^{-1}$ (13 TeV)

30 35 40 45 50 55

lepton $p_T$ [GeV]