

pPb 173.4 nb⁻¹ $\sqrt{s_{\text{NN}}} = 8.16 \text{ TeV}$ $W \rightarrow \mu + \nu_{\mu}$ **CMS***Preliminary* $p_{\text{T}}^{\mu} > 25 \text{ GeV/c}$

- Weak boson p_{T}
- Electroweak and $t\bar{t}$ backgrounds
- W-boson POWHEG BOX
- Signal efficiency
- Event activity
- QCD jet background
- Recoil correction
- Statistical uncertainty
- Total systematic uncertainty

