CMS, 19.7 fb$^{-1}$ at $\sqrt{s} = 8$ TeV

![Graph showing the comparison between data and various Monte Carlo simulations for the production of $b\bar{b}$ pairs. The x-axis represents the invariant mass $m_{b\bar{b}}$ in GeV, and the y-axis represents the differential cross section $\frac{1}{\sigma} \frac{d\sigma}{d m_{b\bar{b}}}$ in $[GeV^{-1}]$. The graph includes data points and various theoretical predictions from MadGraph+Pythia6, MC@NLO+Herwig6, Powheg+Pythia6, and Powheg+Herwig6. The plots show a comparison between data and theory, with statistical and systematic uncertainties indicated.](image-url)