59.0 fb<sup>-1</sup> (13 TeV) 2018 Events JES\_RelativePtBB<sub>18</sub> central) CMS 22000  $(sys + 1\sigma)$ Simulation (sys -1σ) 20000 single top V+jets 18000 16000 14000 12000 10000  $|\Delta_y| < 1.0$ 8000  $|\Delta_y| > 1.0$ 6000 4000 2000 rel unc tī 0.0002 0 -0.0002440-3000 210-230 230-250 250-270 270-290 290-310 310-340 340-380 380-440 100-280 280-320 320-360 400-460 460-560 560-3000 360-400

 $\mathrm{M_{bl}}\left[\mathrm{GeV/c^2}\right]$