35.8 fb<sup>-1</sup> (13 TeV) 2016 Events JES\_AbsScale<sub>16</sub> central) CMS 12000  $(sys + 1\sigma)$ Simulation (sys -1σ) single top V+jets 10000 8000 6000  $|\Delta_y| < 1.0$  $|\Delta_y| > 1.0$ 4000 2000 rel unc tt 0.004 0.002 0 -0.002-0.004100-210 440-3000 320-360 310-340 380-440 460-560 230-250 250-270 270-290 290-310 340-380 100-280 280-320 400-460 210-230 360-400 560-3000

 $M_{bl}$  [GeV/c<sup>2</sup>]