35.8 fb<sup>-1</sup> (13 TeV) 2016 Events JES\_TimePtEta<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 tī 0.01 0.005 0 -0.005-0.01440-3000 320-360 310-340 380-440 460-560 100-210 230-250 250-270 270-290 290-310 340-380 100-280 280-320 360-400 400-460 560-3000 210-230

 $\rm M_{bl} \, [GeV/c^2]$