59.0 fb<sup>-1</sup> (13 TeV) 2018 Events JES\_RelativePtBB<sub>18</sub> (central) CMS  $(sys + 1\sigma)$ 30000 Simulation (sys -1σ) single top V+jets 25000 20000 15000 10000 5000 rel unc tī 0.0002 0 -0.0002340-380 320-360 100-220 250-280 280-310 310-340 380-440 440-3000 100-280 280-320 360-400 400-460 460-560 220-250 560-3000

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