59.0 fb⁻¹ (13 TeV) 2018 Events JES_PileupPtEC2₁₈ (central) CMS $(sys + 1\sigma)$ 30000 Simulation (sys -1σ) single top V+jets 25000 20000 15000 10000 5000 rel unc tt 0.05 0 -0.05340-380 320-360 250-280 280-310 310-340 380-440 440-3000 100-280 280-320 360-400 460-560 100-220 220-250 400-460 560-3000

 M_{bl} [GeV/c²]