CMS Simulation Preliminary 138 fb⁻¹ (13 TeV) Events 250 VH [5.4 events] tt + X [45.1 events] EWK W $\rightarrow \ell \nu$ [71.2 events] Single top [322.8 events] $t\bar{t} + 2\ell$ [351.4 events] 200 W+jets [1018.1 events] tt + 1 (2736.8 events) Bosons [368.8 events] Total background [4919.6 events] Total signal [521.4 events] 150 Background unc. [stat] 100 50 0 10 6