tHq(2IOS+1)SR CR tt CR Z+iets JES effective NP stat. 6 JES effective NP stat. 5 JES effective NP stat. 4 JES effective NP stat. 3 JES effective NP stat. 2 JES effective NP stat. 1 JES effective NP modelling 4 JES effective NP modelling 3 JES effective NP modelling 2 JES effective NP modelling 1 JES effective NP mixed 3 JFS effective NP mixed 2 JES effective NP mixed 1 JES effective NP detector 2 JES effective NP detector 1 JES relative non-closure AFII ntercalibration non-closure (pos n) ntercalibration non-closure (neg η) tercalibration non-closure (high-E) rcalibration NonClosure 2018data JES η intercalibration total stat JES η intercalibration modelling JES flavour composition JES flavour response JES pileup ρ topology JES pileup pT term JES pileup offset NPV JES pileup offset µ JES Punchthrough (AFII) JES Punchthrough JES single particle (high-pT) JES BJES Response Not present Z+jets Diboson tWH tWZ *tW* Z+jets Diboson Z+jets minor bkgs minor bkgs minor bkgs minor bkgs tWH Diboson tWZ Kept Shape dropped Norm. dropped Dropped Norm >99% (dropped) Bad shape (dropped) Bad shape & norm. (dropped)