

$tHq(2ISS+1\tau)$

SR

CR  $t\bar{t}+t\bar{t}X$

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  
 JES effective NP mixed 2  
 JES effective NP mixed 1  
 JES effective NP detector 2  
 JES effective NP detector 1  
 JES relative non-closure AFII  
 intercalibration non-closure (pos  $\eta$ )  
 intercalibration non-closure (neg  $\eta$ )  
 intercalibration non-closure (high-E)  
 intercalibration NonClosure 2018data  
 JES  $\eta$  intercalibration total stat  
 JES  $\eta$  intercalibration modelling  
 JES flavour composition  
 JES flavour response  
 JES pileup  $\rho$  topology  
 JES pileup pT term  
 JES pileup offset NPV  
 JES pileup offset  $\mu$   
 JES Punchthrough (AFII)  
 JES Punchthrough  
 JES single particle (high-pT)  
 JES BJES Response

Not present  
 Kept  
 Shape dropped  
 Norm. dropped  
 Dropped  
 Norm >99% (dropped)  
 Bad shape (dropped)  
 Bad shape & norm. (dropped)

