

$t\bar{t}H(2\text{IOS}+\tau\tau)$

SR

CR $t\bar{t}$

CR Z+jets

MET soft reso (parp.)
 MET soft reso (para.)
 MET soft scale
 Tau fake norm.
 Tau fake shape
 Lepton fake leading
 Lepton fake sub-leading
 RNN Tau ID syst.
 RNN Tau ID High-pT
 RNN Tau ID 3P (40)
 RNN Tau ID 3P (30-40)
 RNN Tau ID 3P (25-30)
 RNN Tau ID 3P (20-25)
 RNN Tau ID 1P (40)
 RNN Tau ID 1P (30-40)
 RNN Tau ID 1P (25-30)
 RNN Tau ID 1P (20-25)
 Tau reconstruction
 Tau electron veto (syst.)
 Tau electron veto (stat.)
 Tau electron veto (tot.)
 Tau energy scale (physicslist)
 Tau energy scale (model closure)
 Tau energy scale (insitu fit)
 Tau energy scale (insitu exp.)
 Tau energy scale (detector)
 Muon TTVA eff. (stat)
 Muon trigger eff. (stat)
 Muon isol. eff. (stat)
 Muon low pt ID eff. (stat)
 Muon ID eff. (stat)
 Muon TTVA eff. (syst)
 Muon trigger eff. (syst)
 Muon isol. eff. (syst)
 Muon low pT ID eff. (syst)
 Muon ID eff. (syst)
 Muon energy scale
 Muon sagitta ρ topology
 Muon sagitta residual bias
 Muon energy resolution (MS)
 Muon energy resolution (ID)
 Electron trigger eff.
 Electron reco. eff.
 Electron isol. eff. (syst)
 Electron isol. eff. (stat)
 Electron ID eff.
 Electron energy scale
 Electron energy scale AFII
 Electron energy resolution
 Forward Jet-Vertex-Tagger (fJVT)
 Jet-Vertex-Tagger (JVT)
 Pile-up rew.
 Luminosity

$t\bar{t}H$
 $t\bar{t}W$
 $t\bar{t}Z$
 $t\bar{t}W$
 $t\bar{t}Z$
 $t\bar{t}H$
 $t\bar{t}Z$
 $t\bar{t}W$
 Z+jets
 Diboson
 minor bkg
 minor bkg

$t\bar{t}H$
 $t\bar{t}W$
 $t\bar{t}Z$
 $t\bar{t}H$
 $t\bar{t}W$
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$t\bar{t}H$
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 $t\bar{t}Z$
 $t\bar{t}H$
 $t\bar{t}W$
 $t\bar{t}Z$
 $t\bar{t}H$
 $t\bar{t}Z$
 $t\bar{t}W$
 Z+jets
 Diboson
 minor bkg
 minor bkg

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