tHq(2IOS+1t)CR tt SR 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 Not present tHq tWZ tWZ tfW tfW tfW tfTW tfTH tZq tW Z+jets Diboson minor bkgs Diboson minor bkgs Diboson minor bkgs minor bkgs minor bkgs Kept Shape dropped Norm. dropped Dropped Norm >99% (dropped) Bad shape (dropped)

Bad shape & norm. (dropped)