

Uncertainty of channel	SR1LBin0	SR1LBin1	SR1LBin2	SR1LBin3	SR1LBin4
Total background expectation	172.84	170.11	56.79	21.45	16.40
Total statistical ($\sqrt{N_{\text{exp}}}$)	± 13.15	± 13.04	± 7.54	± 4.63	± 4.05
Total background systematic	± 25.89 [14.98%]	± 22.49 [13.22%]	± 8.32 [14.65%]	± 3.50 [16.34%]	± 3.49 [21.27%]
alpha_ISR-Top1L	± 20.63 [11.9%]	± 17.86 [10.5%]	± 5.18 [9.1%]	± 1.61 [7.5%]	± 1.14 [6.9%]
alpha_muR_muF-Wjets	± 8.47 [4.9%]	± 10.80 [6.3%]	± 4.31 [7.6%]	± 1.86 [8.7%]	± 1.40 [8.5%]
alpha_JER_EffectiveNP_1	± 5.51 [3.2%]	± 0.72 [0.42%]	± 0.14 [0.24%]	± 0.75 [3.5%]	± 0.90 [5.5%]
gamma_stat_SR1LBin0.cuts.bin_0	± 4.62 [2.7%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JER_EffectiveNP_2	± 4.58 [2.7%]	± 0.99 [0.58%]	± 0.10 [0.18%]	± 0.61 [2.8%]	± 1.31 [8.0%]
alpha_JER_EffectiveNP_7restTerm	± 3.64 [2.1%]	± 0.56 [0.33%]	± 1.13 [2.0%]	± 0.16 [0.76%]	± 0.48 [2.9%]
alpha_JER_DataVsMC	± 3.36 [1.9%]	± 0.18 [0.11%]	± 1.09 [1.9%]	± 0.28 [1.3%]	± 0.45 [2.8%]
alpha_JER_EffectiveNP_4	± 3.21 [1.9%]	± 1.93 [1.1%]	± 0.22 [0.38%]	± 0.01 [0.05%]	± 0.14 [0.86%]
alpha_JER_EffectiveNP_3	± 3.21 [1.9%]	± 0.33 [0.19%]	± 0.86 [1.5%]	± 0.55 [2.6%]	± 0.79 [4.8%]
alpha_JES_Group2	± 3.19 [1.8%]	± 0.62 [0.37%]	± 1.78 [3.1%]	± 0.05 [0.25%]	± 0.06 [0.34%]
alpha_muR_muF-ttV	± 3.14 [1.8%]	± 4.77 [2.8%]	± 2.14 [3.8%]	± 0.87 [4.1%]	± 0.66 [4.0%]
alpha_FSR-SingleTop	± 3.09 [1.8%]	± 0.62 [0.36%]	± 0.15 [0.27%]	± 0.35 [1.6%]	± 1.24 [7.6%]
alpha_JES_Group1	± 2.39 [1.4%]	± 0.78 [0.46%]	± 1.21 [2.1%]	± 0.33 [1.6%]	± 0.06 [0.38%]
alpha_JER_EffectiveNP_5	± 2.19 [1.3%]	± 1.60 [0.94%]	± 0.40 [0.71%]	± 0.12 [0.57%]	± 0.44 [2.7%]
alpha_muR_muF-Diboson	± 1.96 [1.1%]	± 2.51 [1.5%]	± 1.18 [2.1%]	± 0.55 [2.6%]	± 0.68 [4.2%]
alpha_JES_Group3	± 1.55 [0.90%]	± 0.13 [0.08%]	± 0.44 [0.78%]	± 0.03 [0.15%]	± 0.25 [1.5%]
alpha_btag_BT	± 1.48 [0.85%]	± 1.19 [0.70%]	± 0.30 [0.53%]	± 0.20 [0.91%]	± 0.09 [0.53%]
alpha_JET_Flavor_Response	± 1.15 [0.67%]	± 0.64 [0.38%]	± 0.44 [0.77%]	± 0.12 [0.57%]	± 0.04 [0.24%]
alpha_MUON_MS	± 1.06 [0.61%]	± 0.60 [0.35%]	± 0.03 [0.04%]	± 0.10 [0.48%]	± 0.01 [0.07%]
alpha_muR_muF-Zjets	± 0.79 [0.46%]	± 0.40 [0.24%]	± 0.11 [0.19%]	± 0.06 [0.27%]	± 0.05 [0.29%]
alpha_MET_SoftTrk	± 0.77 [0.45%]	± 0.00 [0.00%]	± 0.04 [0.08%]	± 0.02 [0.09%]	± 0.03 [0.19%]
Lumi	± 0.72 [0.41%]	± 0.82 [0.48%]	± 0.38 [0.66%]	± 0.17 [0.80%]	± 0.13 [0.80%]
alpha_MET_SoftTrk_ResoPara	± 0.65 [0.37%]	± 1.14 [0.67%]	± 0.10 [0.18%]	± 0.26 [1.2%]	± 0.02 [0.15%]
alpha_EG_Eff	± 0.60 [0.35%]	± 0.50 [0.30%]	± 0.26 [0.46%]	± 0.12 [0.57%]	± 0.09 [0.55%]
alpha_JER_EffectiveNP_6	± 0.58 [0.33%]	± 2.06 [1.2%]	± 0.69 [1.2%]	± 0.10 [0.48%]	± 0.15 [0.93%]
alpha_FSR-Top1L	± 0.47 [0.27%]	± 0.01 [0.00%]	± 0.67 [1.2%]	± 0.95 [4.4%]	± 0.34 [2.1%]
alpha_MET_SoftTrk_ResoPerp	± 0.43 [0.25%]	± 0.45 [0.26%]	± 0.31 [0.54%]	± 0.08 [0.39%]	± 0.20 [1.2%]
alpha_EG_SCALE_ALL	± 0.42 [0.24%]	± 0.58 [0.34%]	± 0.30 [0.54%]	± 0.34 [1.6%]	± 0.28 [1.7%]
alpha_JVT	± 0.41 [0.24%]	± 0.27 [0.16%]	± 0.08 [0.14%]	± 0.04 [0.19%]	± 0.03 [0.16%]
alpha_MUON_ID	± 0.34 [0.20%]	± 0.55 [0.32%]	± 0.11 [0.19%]	± 0.22 [1.0%]	± 0.03 [0.20%]
alpha_btag_ExtraFromCharm	± 0.22 [0.13%]	± 0.16 [0.10%]	± 0.01 [0.01%]	± 0.05 [0.23%]	± 0.04 [0.23%]
alpha_btag_Extra	± 0.18 [0.10%]	± 0.17 [0.10%]	± 0.05 [0.09%]	± 0.01 [0.06%]	± 0.03 [0.16%]
alpha_MUON_Eff_sys	± 0.17 [0.10%]	± 0.20 [0.12%]	± 0.09 [0.16%]	± 0.07 [0.35%]	± 0.11 [0.65%]
alpha_EG_RESOLUTION_ALL	± 0.14 [0.08%]	± 0.04 [0.03%]	± 0.00 [0.00%]	± 0.02 [0.12%]	± 0.01 [0.03%]
alpha_btag_CT	± 0.13 [0.07%]	± 0.13 [0.07%]	± 0.11 [0.19%]	± 0.06 [0.26%]	± 0.06 [0.39%]
alpha_btag_LightT	± 0.11 [0.06%]	± 0.65 [0.38%]	± 0.07 [0.12%]	± 0.09 [0.40%]	± 0.02 [0.10%]
alpha_JET_EtaInt_negEta	± 0.08 [0.05%]	± 0.02 [0.01%]	± 0.00 [0.00%]	± 0.00 [0.01%]	± 0.01 [0.05%]
alpha_pileup	± 0.08 [0.05%]	± 0.53 [0.31%]	± 0.33 [0.59%]	± 0.23 [1.1%]	± 0.23 [1.4%]
alpha_EG_Reco	± 0.05 [0.03%]	± 0.05 [0.03%]	± 0.02 [0.03%]	± 0.01 [0.04%]	± 0.01 [0.04%]
alpha_MUON_SCALE	± 0.04 [0.03%]	± 0.24 [0.14%]	± 0.03 [0.06%]	± 0.25 [1.2%]	± 0.00 [0.03%]
alpha_JET_EtaInt_highE	± 0.03 [0.02%]	± 0.03 [0.02%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MUON_Eff_Iso_sys	± 0.02 [0.01%]	± 0.03 [0.02%]	± 0.01 [0.03%]	± 0.01 [0.03%]	± 0.00 [0.00%]
alpha_MUON_Eff_stat	± 0.02 [0.01%]	± 0.02 [0.01%]	± 0.01 [0.01%]	± 0.01 [0.03%]	± 0.00 [0.01%]
alpha_JET_RelNonClos_AFII	± 0.01 [0.01%]	± 0.02 [0.01%]	± 0.01 [0.01%]	± 0.00 [0.00%]	± 0.00 [0.01%]
mu_tt_1L	± 0.01 [0.01%]	± 0.01 [0.01%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MUON_TTVA_stat	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.01%]	± 0.00 [0.00%]
alpha_MUON_Eff_Iso_stat	± 0.00 [0.00%]	± 0.01 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
mu_W	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_EG_SCALE_AF2	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JER_DataVsMC_AFII	± 0.00 [0.00%]	± 0.01 [0.01%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JET_EtaInt_posEta	± 0.00 [0.00%]	± 0.03 [0.02%]	± 0.02 [0.03%]	± 0.00 [0.01%]	± 0.00 [0.03%]
alpha_MUON_TTVA_sys	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_EG_Trig	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MUON_Trig_sys	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MatrixElement-Top1L	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW1L_CRWm.cuts.bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_fJVT	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_EG_TrigEff	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW1L_VRW_VR1m.cuts.bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MatrixElement-SingleTop	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_PartonShower-Top1L	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_Interference-SingleTop	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW1L_VRW_VR2m.cuts.bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR1LBin3.cuts.bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 1.47 [6.9%]	± 0.00 [0.00%]
alpha_MUON_Eff_sys_lowpt	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW1L_VRW_VR1p.cuts.bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR1LBin4.cuts.bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 1.50 [9.1%]
alpha_PartonShower-SingleTop	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]