

Uncertainty of channel	SR1LBin0	SR1LBin1	SR1LBin2	SR1LBin3	SR1LBin4
Total background expectation	170.92	171.53	54.54	20.12	16.38
Total statistical ($\sqrt{N_{\text{exp}}}$)	± 13.07	± 13.10	± 7.39	± 4.49	± 4.05
Total background systematic	± 17.14 [10.03%]	± 14.55 [8.48%]	± 6.99 [12.81%]	± 3.10 [15.41%]	± 3.21 [19.57%]
alpha_JER_EffectiveNP_1	± 6.79 [4.0%]	± 2.08 [1.2%]	± 1.02 [1.9%]	± 0.21 [1.0%]	± 0.20 [1.2%]
alpha_PartonShower-Top1L	± 5.43 [3.2%]	± 8.94 [5.2%]	± 4.21 [7.7%]	± 1.31 [6.5%]	± 0.88 [5.4%]
alpha_JER_EffectiveNP_2	± 5.27 [3.1%]	± 1.18 [0.69%]	± 1.10 [2.0%]	± 0.34 [1.7%]	± 0.62 [3.8%]
alpha_FSR-Top1L	± 4.82 [2.8%]	± 4.38 [2.6%]	± 0.33 [0.60%]	± 0.70 [3.5%]	± 0.17 [1.1%]
gamma_stat_SR1LBin0.cuts_bin_0	± 4.23 [2.5%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JER_DataVsMC	± 4.18 [2.4%]	± 1.04 [0.61%]	± 1.02 [1.9%]	± 0.32 [1.6%]	± 0.42 [2.5%]
alpha_JER_EffectiveNP_7restTerm	± 3.98 [2.3%]	± 1.06 [0.62%]	± 0.12 [0.23%]	± 0.25 [1.2%]	± 0.03 [0.21%]
alpha_PartonShower-SingleTop	± 3.96 [2.3%]	± 0.42 [0.24%]	± 1.99 [3.6%]	± 0.80 [4.0%]	± 0.38 [2.3%]
alpha_JES_Group2	± 3.79 [2.2%]	± 1.20 [0.70%]	± 1.21 [2.2%]	± 0.04 [0.18%]	± 0.02 [0.15%]
alpha_JES_Group1	± 3.40 [2.0%]	± 1.11 [0.65%]	± 0.97 [1.8%]	± 0.46 [2.3%]	± 0.04 [0.26%]
alpha_muR_muF-ttV	± 3.14 [1.8%]	± 4.77 [2.8%]	± 2.14 [3.9%]	± 0.87 [4.3%]	± 0.66 [4.0%]
alpha_JER_EffectiveNP_3	± 3.03 [1.8%]	± 1.69 [0.98%]	± 0.30 [0.55%]	± 0.67 [3.3%]	± 0.41 [2.5%]
alpha_JER_EffectiveNP_4	± 2.89 [1.7%]	± 2.56 [1.5%]	± 0.61 [1.1%]	± 0.10 [0.48%]	± 0.04 [0.26%]
alpha_JET_Flavor_Response	± 2.82 [1.7%]	± 0.92 [0.54%]	± 0.15 [0.28%]	± 0.18 [0.90%]	± 0.06 [0.39%]
alpha_FSR-SingleTop	± 2.79 [1.6%]	± 0.68 [0.39%]	± 0.11 [0.20%]	± 0.22 [1.1%]	± 1.23 [7.5%]
alpha_MatrixElement-Top1L	± 2.59 [1.5%]	± 1.27 [0.74%]	± 0.58 [1.1%]	± 0.16 [0.79%]	± 0.98 [6.0%]
alpha_JER_EffectiveNP_5	± 2.52 [1.5%]	± 1.86 [1.1%]	± 0.69 [1.3%]	± 0.26 [1.3%]	± 0.05 [0.30%]
alpha_ISR-SingleTop	± 1.87 [1.1%]	± 2.99 [1.7%]	± 1.13 [2.1%]	± 0.60 [3.0%]	± 1.09 [6.7%]
alpha_MatrixElement-SingleTop	± 1.59 [0.93%]	± 2.48 [1.4%]	± 0.13 [0.23%]	± 0.25 [1.3%]	± 0.35 [2.2%]
alpha_btag_BT	± 1.50 [0.88%]	± 1.27 [0.74%]	± 0.39 [0.71%]	± 0.17 [0.87%]	± 0.11 [0.70%]
alpha_muR_muF-Diboson	± 1.36 [0.79%]	± 1.68 [0.98%]	± 0.80 [1.5%]	± 0.37 [1.9%]	± 0.47 [2.8%]
alpha_MUON_MS	± 1.18 [0.69%]	± 0.50 [0.29%]	± 0.10 [0.18%]	± 0.03 [0.16%]	± 0.02 [0.12%]
alpha_Interference-SingleTop	± 1.08 [0.63%]	± 2.75 [1.6%]	± 2.18 [4.0%]	± 1.46 [7.3%]	± 1.26 [7.7%]
alpha_pileup	± 0.92 [0.54%]	± 0.46 [0.27%]	± 0.05 [0.08%]	± 0.25 [1.2%]	± 0.30 [1.8%]
alpha_ISR-Top1L	± 0.87 [0.51%]	± 1.55 [0.91%]	± 1.42 [2.6%]	± 0.67 [3.3%]	± 0.66 [4.0%]
alpha_JES_Group3	± 0.80 [0.47%]	± 0.05 [0.03%]	± 0.29 [0.54%]	± 0.21 [1.0%]	± 0.17 [1.0%]
alpha_MUON_ID	± 0.77 [0.45%]	± 0.19 [0.11%]	± 0.03 [0.05%]	± 0.04 [0.20%]	± 0.07 [0.40%]
alpha_EG_SCALE_ALL	± 0.76 [0.44%]	± 0.45 [0.26%]	± 0.05 [0.10%]	± 0.06 [0.28%]	± 0.01 [0.06%]
alpha_muR_muF-Wjets	± 0.72 [0.42%]	± 1.53 [0.89%]	± 0.72 [1.3%]	± 0.08 [0.40%]	± 0.49 [3.0%]
Lumi	± 0.68 [0.40%]	± 0.84 [0.49%]	± 0.34 [0.62%]	± 0.15 [0.74%]	± 0.13 [0.80%]
alpha_EG_Eff	± 0.60 [0.35%]	± 0.51 [0.30%]	± 0.20 [0.38%]	± 0.08 [0.41%]	± 0.09 [0.55%]
alpha_MET_SoftTrk	± 0.42 [0.25%]	± 0.03 [0.02%]	± 0.04 [0.07%]	± 0.03 [0.16%]	± 0.06 [0.39%]
alpha_EG_RESOLUTION_ALL	± 0.37 [0.22%]	± 0.22 [0.13%]	± 0.02 [0.03%]	± 0.02 [0.12%]	± 0.03 [0.17%]
alpha_JVT	± 0.36 [0.21%]	± 0.25 [0.15%]	± 0.11 [0.20%]	± 0.04 [0.18%]	± 0.02 [0.13%]
alpha_muR_muF-Zjets	± 0.24 [0.14%]	± 0.12 [0.07%]	± 0.02 [0.03%]	± 0.01 [0.04%]	± 0.01 [0.05%]
alpha_qsf-Wjets	± 0.24 [0.14%]	± 0.17 [0.10%]	± 0.04 [0.08%]	± 0.04 [0.18%]	± 0.04 [0.24%]
alpha_MET_SoftTrk_ResoPara	± 0.22 [0.13%]	± 1.72 [1.0%]	± 0.24 [0.45%]	± 0.27 [1.3%]	± 0.02 [0.09%]
alpha_btag_ExtraFromCharm	± 0.21 [0.12%]	± 0.10 [0.06%]	± 0.02 [0.03%]	± 0.00 [0.00%]	± 0.00 [0.02%]
alpha_btag_Extra	± 0.21 [0.12%]	± 0.19 [0.11%]	± 0.03 [0.06%]	± 0.01 [0.03%]	± 0.07 [0.44%]
alpha_JET_EtaInt_negEta	± 0.17 [0.10%]	± 0.02 [0.01%]	± 0.01 [0.01%]	± 0.00 [0.01%]	± 0.01 [0.05%]
alpha_MUON_Eff_sys	± 0.16 [0.10%]	± 0.22 [0.13%]	± 0.10 [0.18%]	± 0.07 [0.33%]	± 0.10 [0.62%]
alpha_btag_LightT	± 0.09 [0.05%]	± 0.55 [0.32%]	± 0.11 [0.21%]	± 0.11 [0.53%]	± 0.03 [0.20%]
alpha_ckkw-Wjets	± 0.08 [0.05%]	± 0.32 [0.18%]	± 0.05 [0.09%]	± 0.10 [0.49%]	± 0.11 [0.67%]
alpha_btag_CT	± 0.07 [0.04%]	± 0.07 [0.04%]	± 0.02 [0.04%]	± 0.01 [0.05%]	± 0.02 [0.15%]
alpha_MET_SoftTrk_ResoPerp	± 0.06 [0.04%]	± 1.67 [0.97%]	± 0.21 [0.39%]	± 0.32 [1.6%]	± 0.03 [0.20%]
alpha_MUON_SCALE	± 0.05 [0.03%]	± 0.29 [0.17%]	± 0.11 [0.21%]	± 0.01 [0.04%]	± 0.00 [0.03%]
alpha_EG_Reco	± 0.05 [0.03%]	± 0.04 [0.03%]	± 0.01 [0.02%]	± 0.01 [0.03%]	± 0.01 [0.04%]
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_ckkw-Zjets	± 0.03 [0.01%]	± 0.01 [0.00%]	± 0.01 [0.02%]	± 0.00 [0.00%]	± 0.00 [0.01%]
alpha_MUON_Eff_Iso_sys	± 0.02 [0.01%]	± 0.03 [0.02%]	± 0.01 [0.02%]	± 0.01 [0.03%]	± 0.00 [0.01%]
alpha_qsf-Zjets	± 0.02 [0.01%]	± 0.00 [0.00%]	± 0.01 [0.02%]	± 0.00 [0.01%]	± 0.00 [0.01%]
alpha_MUON_Eff_stat	± 0.01 [0.01%]	± 0.02 [0.01%]	± 0.01 [0.01%]	± 0.01 [0.03%]	± 0.00 [0.02%]
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 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MUON_TTVA_stat	± 0.00 [0.00%]	± 0.01 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.01%]	± 0.00 [0.00%]
alpha_JER_EffectiveNP_6	± 0.00 [0.00%]	± 2.36 [1.4%]	± 0.24 [0.44%]	± 0.24 [1.2%]	± 0.04 [0.27%]
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_JER_DataVsMC_AFII	± 0.00 [0.00%]	± 0.01 [0.01%]	± 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_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%]
gamma_stat_tW1L_VRtt_VR2.cuts_bin_0	± 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%]
alpha_MUON_Eff_stat_lowpt	± 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%]
gamma_stat_SR1LBin4.cuts_bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 1.28 [7.8%]
alpha_EG_Trig	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]