

Uncertainty of channel	SR1LBin0	SR1LBin1	SR1LBin2	SR1LBin3	SR1LBin4
Total background expectation	179.81	184.31	59.75	22.24	15.36
Total statistical ( $\sqrt{N_{\text{exp}}}$ )	$\pm 13.41$	$\pm 13.58$	$\pm 7.73$	$\pm 4.72$	$\pm 3.92$
Total background systematic	$\pm 10.47$ [5.83%]	$\pm 9.71$ [5.27%]	$\pm 4.28$ [7.16%]	$\pm 2.09$ [9.40%]	$\pm 2.24$ [14.59%]
alpha_ISR-Top1L	$\pm 13.02$ [7.2%]	$\pm 11.58$ [6.3%]	$\pm 3.20$ [5.3%]	$\pm 0.95$ [4.3%]	$\pm 0.63$ [4.1%]
alpha_PartonShower-Top1L	$\pm 10.95$ [6.1%]	$\pm 12.30$ [6.7%]	$\pm 4.21$ [7.1%]	$\pm 1.22$ [5.5%]	$\pm 0.76$ [5.0%]
mu_tt_1L	$\pm 10.23$ [5.7%]	$\pm 9.11$ [4.9%]	$\pm 2.27$ [3.8%]	$\pm 0.60$ [2.7%]	$\pm 0.36$ [2.3%]
alpha_Interference-SingleTop	$\pm 9.79$ [5.4%]	$\pm 6.70$ [3.6%]	$\pm 3.78$ [6.3%]	$\pm 1.57$ [7.1%]	$\pm 1.13$ [7.3%]
alpha_MatrixElement-Top1L	$\pm 7.15$ [4.0%]	$\pm 8.90$ [4.8%]	$\pm 2.30$ [3.9%]	$\pm 0.60$ [2.7%]	$\pm 1.01$ [6.6%]
alpha_JER_EffectiveNP_1	$\pm 6.56$ [3.6%]	$\pm 2.10$ [1.1%]	$\pm 1.09$ [1.8%]	$\pm 0.23$ [1.0%]	$\pm 0.27$ [1.7%]
alpha_JER_EffectiveNP_2	$\pm 5.21$ [2.9%]	$\pm 1.28$ [0.69%]	$\pm 1.19$ [2.0%]	$\pm 0.39$ [1.7%]	$\pm 0.66$ [4.3%]
gamma_stat_SR1LBin0.cuts_bin_0	$\pm 4.31$ [2.4%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_JER_DataVsMC	$\pm 4.22$ [2.3%]	$\pm 1.03$ [0.56%]	$\pm 0.96$ [1.6%]	$\pm 0.31$ [1.4%]	$\pm 0.42$ [2.8%]
alpha_JER_EffectiveNP_7restTerm	$\pm 3.97$ [2.2%]	$\pm 1.15$ [0.62%]	$\pm 0.07$ [0.12%]	$\pm 0.30$ [1.4%]	$\pm 0.13$ [0.83%]
alpha_JES_Group2	$\pm 3.90$ [2.2%]	$\pm 1.21$ [0.66%]	$\pm 1.13$ [1.9%]	$\pm 0.04$ [0.18%]	$\pm 0.04$ [0.29%]
alpha_PartonShower-SingleTop	$\pm 3.83$ [2.1%]	$\pm 0.41$ [0.22%]	$\pm 1.83$ [3.1%]	$\pm 0.74$ [3.3%]	$\pm 0.37$ [2.4%]
alpha_muR_muF-Wjets	$\pm 3.54$ [2.0%]	$\pm 5.42$ [2.9%]	$\pm 2.22$ [3.7%]	$\pm 0.49$ [2.2%]	$\pm 1.06$ [6.9%]
alpha_JES_Group1	$\pm 3.32$ [1.8%]	$\pm 1.00$ [0.54%]	$\pm 0.86$ [1.4%]	$\pm 0.44$ [2.0%]	$\pm 0.02$ [0.15%]
alpha_muR_muF-ttV	$\pm 3.11$ [1.7%]	$\pm 5.07$ [2.8%]	$\pm 2.26$ [3.8%]	$\pm 1.05$ [4.7%]	$\pm 0.66$ [4.3%]
mu_W	$\pm 3.07$ [1.7%]	$\pm 4.12$ [2.2%]	$\pm 1.59$ [2.7%]	$\pm 0.67$ [3.0%]	$\pm 0.61$ [4.0%]
alpha_JER_EffectiveNP_3	$\pm 3.07$ [1.7%]	$\pm 1.78$ [0.97%]	$\pm 0.33$ [0.55%]	$\pm 0.75$ [3.4%]	$\pm 0.45$ [3.0%]
alpha_JET_Flavor_Response	$\pm 2.92$ [1.6%]	$\pm 0.86$ [0.47%]	$\pm 0.07$ [0.11%]	$\pm 0.17$ [0.77%]	$\pm 0.07$ [0.49%]
alpha_JER_EffectiveNP_4	$\pm 2.84$ [1.6%]	$\pm 2.67$ [1.4%]	$\pm 0.66$ [1.1%]	$\pm 0.13$ [0.59%]	$\pm 0.11$ [0.74%]
alpha_FSR-SingleTop	$\pm 2.54$ [1.4%]	$\pm 0.74$ [0.40%]	$\pm 0.01$ [0.02%]	$\pm 0.07$ [0.33%]	$\pm 1.02$ [6.6%]
alpha_JER_EffectiveNP_5	$\pm 2.45$ [1.4%]	$\pm 1.96$ [1.1%]	$\pm 0.76$ [1.3%]	$\pm 0.31$ [1.4%]	$\pm 0.11$ [0.71%]
alpha_ISR-SingleTop	$\pm 1.91$ [1.1%]	$\pm 3.10$ [1.7%]	$\pm 1.10$ [1.8%]	$\pm 0.59$ [2.6%]	$\pm 0.80$ [5.2%]
alpha_btag_BT	$\pm 1.54$ [0.86%]	$\pm 1.34$ [0.73%]	$\pm 0.43$ [0.72%]	$\pm 0.19$ [0.86%]	$\pm 0.07$ [0.44%]
alpha_MatrixElement-SingleTop	$\pm 1.39$ [0.77%]	$\pm 2.20$ [1.2%]	$\pm 0.11$ [0.18%]	$\pm 0.21$ [0.96%]	$\pm 1.60$ [10.4%]
alpha_muR_muF-Diboson	$\pm 1.32$ [0.73%]	$\pm 1.67$ [0.91%]	$\pm 0.79$ [1.3%]	$\pm 0.38$ [1.7%]	$\pm 0.44$ [2.9%]
alpha_MUON_MS	$\pm 1.19$ [0.66%]	$\pm 0.50$ [0.27%]	$\pm 0.11$ [0.18%]	$\pm 0.03$ [0.12%]	$\pm 0.01$ [0.08%]
alpha_pileup	$\pm 1.00$ [0.56%]	$\pm 0.48$ [0.26%]	$\pm 0.07$ [0.12%]	$\pm 0.27$ [1.2%]	$\pm 0.31$ [2.0%]
alpha_ckkw-Wjets	$\pm 0.77$ [0.43%]	$\pm 0.82$ [0.45%]	$\pm 0.39$ [0.66%]	$\pm 0.09$ [0.40%]	$\pm 0.07$ [0.43%]
alpha_MUON_ID	$\pm 0.76$ [0.42%]	$\pm 0.19$ [0.10%]	$\pm 0.03$ [0.04%]	$\pm 0.04$ [0.19%]	$\pm 0.04$ [0.27%]
Lumi	$\pm 0.76$ [0.42%]	$\pm 0.86$ [0.47%]	$\pm 0.36$ [0.60%]	$\pm 0.17$ [0.74%]	$\pm 0.10$ [0.66%]
alpha_JES_Group3	$\pm 0.75$ [0.42%]	$\pm 0.04$ [0.02%]	$\pm 0.30$ [0.50%]	$\pm 0.22$ [0.99%]	$\pm 0.13$ [0.82%]
alpha_EG_SCALE_ALL	$\pm 0.72$ [0.40%]	$\pm 0.44$ [0.24%]	$\pm 0.06$ [0.10%]	$\pm 0.05$ [0.24%]	$\pm 0.01$ [0.08%]
alpha_qsf-Wjets	$\pm 0.65$ [0.36%]	$\pm 0.73$ [0.40%]	$\pm 0.26$ [0.43%]	$\pm 0.05$ [0.24%]	$\pm 0.05$ [0.30%]
alpha_EG_Eff	$\pm 0.63$ [0.35%]	$\pm 0.52$ [0.28%]	$\pm 0.22$ [0.37%]	$\pm 0.09$ [0.41%]	$\pm 0.07$ [0.48%]
alpha_MET_SoftTrk	$\pm 0.40$ [0.22%]	$\pm 0.00$ [0.00%]	$\pm 0.05$ [0.09%]	$\pm 0.04$ [0.17%]	$\pm 0.04$ [0.25%]
alpha_JVT	$\pm 0.39$ [0.21%]	$\pm 0.26$ [0.14%]	$\pm 0.12$ [0.20%]	$\pm 0.04$ [0.18%]	$\pm 0.02$ [0.11%]
alpha_EG_RESOLUTION_ALL	$\pm 0.36$ [0.20%]	$\pm 0.21$ [0.11%]	$\pm 0.02$ [0.04%]	$\pm 0.02$ [0.11%]	$\pm 0.01$ [0.08%]
alpha_FSR-Top1L	$\pm 0.32$ [0.18%]	$\pm 0.01$ [0.01%]	$\pm 0.46$ [0.78%]	$\pm 0.64$ [2.9%]	$\pm 0.22$ [1.5%]
alpha_btag_Extra	$\pm 0.24$ [0.13%]	$\pm 0.19$ [0.11%]	$\pm 0.04$ [0.07%]	$\pm 0.01$ [0.05%]	$\pm 0.13$ [0.85%]
alpha_muR_muF-Zjets	$\pm 0.24$ [0.13%]	$\pm 0.11$ [0.06%]	$\pm 0.02$ [0.03%]	$\pm 0.01$ [0.04%]	$\pm 0.01$ [0.05%]
alpha_btag_ExtraFromCharm	$\pm 0.22$ [0.12%]	$\pm 0.11$ [0.06%]	$\pm 0.01$ [0.02%]	$\pm 0.00$ [0.01%]	$\pm 0.00$ [0.01%]
alpha_MUON_Eff_sys	$\pm 0.18$ [0.10%]	$\pm 0.22$ [0.12%]	$\pm 0.10$ [0.17%]	$\pm 0.07$ [0.31%]	$\pm 0.11$ [0.72%]
alpha_MET_SoftTrk_ResoPara	$\pm 0.18$ [0.10%]	$\pm 1.79$ [0.97%]	$\pm 0.25$ [0.42%]	$\pm 0.26$ [1.2%]	$\pm 0.02$ [0.14%]
alpha_JET_EtaInt_negEta	$\pm 0.18$ [0.10%]	$\pm 0.02$ [0.01%]	$\pm 0.01$ [0.01%]	$\pm 0.00$ [0.01%]	$\pm 0.01$ [0.06%]
alpha_btag_LightT	$\pm 0.13$ [0.07%]	$\pm 0.53$ [0.29%]	$\pm 0.09$ [0.16%]	$\pm 0.11$ [0.47%]	$\pm 0.02$ [0.15%]
alpha_btag_CT	$\pm 0.09$ [0.05%]	$\pm 0.10$ [0.05%]	$\pm 0.03$ [0.05%]	$\pm 0.01$ [0.06%]	$\pm 0.02$ [0.13%]
alpha_MUON_SCALE	$\pm 0.06$ [0.04%]	$\pm 0.29$ [0.16%]	$\pm 0.13$ [0.22%]	$\pm 0.01$ [0.05%]	$\pm 0.00$ [0.03%]
alpha_EG_Reco	$\pm 0.05$ [0.03%]	$\pm 0.05$ [0.02%]	$\pm 0.01$ [0.02%]	$\pm 0.01$ [0.03%]	$\pm 0.01$ [0.03%]
alpha_JER_EffectiveNP_6	$\pm 0.04$ [0.02%]	$\pm 2.49$ [1.3%]	$\pm 0.27$ [0.45%]	$\pm 0.29$ [1.3%]	$\pm 0.12$ [0.79%]
alpha_JET_EtaInt_highE	$\pm 0.03$ [0.02%]	$\pm 0.03$ [0.01%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_Iso_sys	$\pm 0.03$ [0.02%]	$\pm 0.03$ [0.02%]	$\pm 0.01$ [0.02%]	$\pm 0.01$ [0.03%]	$\pm 0.00$ [0.00%]
alpha_ckkw-Zjets	$\pm 0.03$ [0.01%]	$\pm 0.01$ [0.00%]	$\pm 0.01$ [0.02%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.01%]
alpha_qsf-Zjets	$\pm 0.02$ [0.01%]	$\pm 0.00$ [0.00%]	$\pm 0.01$ [0.02%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.01%]
alpha_MUON_Eff_stat	$\pm 0.02$ [0.01%]	$\pm 0.02$ [0.01%]	$\pm 0.01$ [0.01%]	$\pm 0.01$ [0.03%]	$\pm 0.00$ [0.01%]
alpha_MET_SoftTrk_ResoPerp	$\pm 0.01$ [0.01%]	$\pm 1.72$ [0.94%]	$\pm 0.22$ [0.36%]	$\pm 0.33$ [1.5%]	$\pm 0.01$ [0.07%]
alpha_JET_RelNonClos_AFII	$\pm 0.01$ [0.01%]	$\pm 0.02$ [0.01%]	$\pm 0.01$ [0.01%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.01%]
alpha_MUON_TTVA_stat	$\pm 0.00$ [0.00%]	$\pm 0.01$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.01%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_Iso_stat	$\pm 0.00$ [0.00%]	$\pm 0.01$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_JER_DataVsMC_AFII	$\pm 0.00$ [0.00%]	$\pm 0.01$ [0.01%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_EG_SCALE_AF2	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_JET_EtaInt_posEta	$\pm 0.00$ [0.00%]	$\pm 0.03$ [0.02%]	$\pm 0.02$ [0.04%]	$\pm 0.00$ [0.01%]	$\pm 0.00$ [0.03%]
alpha_MUON_TTVA_sys	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_EG_Trig	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_MUON_Trig_sys	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_fJVT	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_EG_TrigEff	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
gamma_stat_tW1L_CRWm.cuts_bin_0	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
gamma_stat_SR1LBin3.cuts_bin_0	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]	$\pm 1.19$ [5.3%]	$\pm 0.00$ [0.00%]