

Uncertainty of channel	SR1LBin0	SR1LBin1	SR1LBin2	SR1LBin3	SR1LBin4
Total background expectation	433.49	262.58	91.05	36.51	16.38
Total statistical ($\sqrt{N_{\text{exp}}}$)	± 20.82	± 16.20	± 9.54	± 6.04	± 4.05
Total background systematic	± 34.16 [7.88%]	± 23.79 [9.06%]	± 11.71 [12.86%]	± 5.84 [16.01%]	± 3.21 [19.57%]
alpha_PartonShower-Top1L	± 19.56 [4.5%]	± 14.99 [5.7%]	± 6.39 [7.0%]	± 2.20 [6.0%]	± 0.88 [5.4%]
alpha_muR_muF-ttV	± 11.58 [2.7%]	± 8.44 [3.2%]	± 3.67 [4.0%]	± 1.53 [4.2%]	± 0.66 [4.0%]
alpha_FSR-Top1L	± 10.27 [2.4%]	± 4.53 [1.7%]	± 0.13 [0.14%]	± 0.20 [0.54%]	± 0.17 [1.1%]
alpha_Interference-SingleTop	± 9.47 [2.2%]	± 8.46 [3.2%]	± 4.91 [5.4%]	± 2.77 [7.6%]	± 1.26 [7.7%]
alpha_ISR-SingleTop	± 7.76 [1.8%]	± 5.93 [2.3%]	± 2.70 [3.0%]	± 1.59 [4.3%]	± 1.09 [6.7%]
alpha_PartonShower-SingleTop	± 6.98 [1.6%]	± 2.99 [1.1%]	± 2.69 [3.0%]	± 0.67 [1.8%]	± 0.38 [2.3%]
gamma_stat_SR1LBin0_Incl.cuts.bin_0	± 6.64 [1.5%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JES_Group2	± 6.26 [1.4%]	± 2.47 [0.94%]	± 1.27 [1.4%]	± 0.06 [0.17%]	± 0.02 [0.15%]
alpha_JER_EffectiveNP_2	± 6.15 [1.4%]	± 0.88 [0.34%]	± 2.06 [2.3%]	± 0.96 [2.6%]	± 0.62 [3.8%]
alpha_JER_EffectiveNP_1	± 6.13 [1.4%]	± 0.66 [0.25%]	± 1.43 [1.6%]	± 0.41 [1.1%]	± 0.20 [1.2%]
alpha_JES_Group1	± 5.98 [1.4%]	± 2.58 [0.98%]	± 1.47 [1.6%]	± 0.50 [1.4%]	± 0.04 [0.26%]
alpha_ISR-Top1L	± 5.18 [1.2%]	± 4.31 [1.6%]	± 2.75 [3.0%]	± 1.33 [3.6%]	± 0.66 [4.0%]
alpha_muR_muF-Diboson	± 4.67 [1.1%]	± 3.31 [1.3%]	± 1.64 [1.8%]	± 0.84 [2.3%]	± 0.47 [2.8%]
alpha_JET_Flavor_Response	± 4.02 [0.93%]	± 1.20 [0.46%]	± 0.27 [0.30%]	± 0.12 [0.32%]	± 0.06 [0.39%]
alpha_btag_BT	± 3.45 [0.80%]	± 1.95 [0.74%]	± 0.68 [0.74%]	± 0.29 [0.79%]	± 0.11 [0.70%]
alpha_muR_muF-Wjets	± 3.36 [0.77%]	± 2.65 [1.0%]	± 1.12 [1.2%]	± 0.42 [1.1%]	± 0.49 [3.0%]
alpha_JER_EffectiveNP_7restTerm	± 3.08 [0.71%]	± 0.90 [0.34%]	± 0.16 [0.18%]	± 0.28 [0.78%]	± 0.03 [0.21%]
alpha_MatrixElement-SingleTop	± 2.90 [0.67%]	± 4.58 [1.7%]	± 1.97 [2.2%]	± 1.90 [5.2%]	± 0.35 [2.2%]
alpha_JER_DataVsMC	± 2.86 [0.66%]	± 1.32 [0.50%]	± 0.28 [0.31%]	± 0.74 [2.0%]	± 0.42 [2.5%]
alpha_JER_EffectiveNP_3	± 2.71 [0.63%]	± 0.31 [0.12%]	± 1.37 [1.5%]	± 1.08 [2.9%]	± 0.41 [2.5%]
Lumi	± 2.15 [0.50%]	± 1.46 [0.56%]	± 0.62 [0.68%]	± 0.28 [0.77%]	± 0.13 [0.80%]
alpha_JER_EffectiveNP_6	± 1.84 [0.42%]	± 1.84 [0.70%]	± 0.53 [0.58%]	± 0.28 [0.78%]	± 0.04 [0.27%]
alpha_FSR-SingleTop	± 1.81 [0.42%]	± 1.06 [0.40%]	± 1.31 [1.4%]	± 1.24 [3.4%]	± 1.23 [7.5%]
alpha_MET_SoftTrk_ResoPerp	± 1.68 [0.39%]	± 1.74 [0.66%]	± 0.08 [0.08%]	± 0.29 [0.79%]	± 0.03 [0.20%]
alpha_JER_EffectiveNP_5	± 1.65 [0.38%]	± 0.87 [0.33%]	± 1.00 [1.1%]	± 0.31 [0.84%]	± 0.05 [0.30%]
alpha_MET_SoftTrk_ResoPara	± 1.52 [0.35%]	± 1.73 [0.66%]	± 0.01 [0.01%]	± 0.25 [0.69%]	± 0.02 [0.09%]
alpha_EG_Eff	± 1.48 [0.34%]	± 0.89 [0.34%]	± 0.38 [0.41%]	± 0.17 [0.47%]	± 0.09 [0.55%]
alpha_EG_SCALE_ALL	± 1.32 [0.30%]	± 0.56 [0.21%]	± 0.12 [0.13%]	± 0.07 [0.18%]	± 0.01 [0.06%]
alpha_MUON_ID	± 1.08 [0.25%]	± 0.31 [0.12%]	± 0.14 [0.15%]	± 0.09 [0.25%]	± 0.07 [0.40%]
alpha_JER_EffectiveNP_4	± 1.08 [0.25%]	± 1.81 [0.69%]	± 0.75 [0.82%]	± 0.14 [0.38%]	± 0.04 [0.26%]
alpha_pileup	± 1.05 [0.24%]	± 0.13 [0.05%]	± 0.59 [0.65%]	± 0.54 [1.5%]	± 0.30 [1.8%]
alpha_JVT	± 0.78 [0.18%]	± 0.42 [0.16%]	± 0.17 [0.19%]	± 0.06 [0.16%]	± 0.02 [0.13%]
alpha_btag_LightT	± 0.71 [0.16%]	± 0.80 [0.31%]	± 0.25 [0.28%]	± 0.14 [0.38%]	± 0.03 [0.20%]
alpha_JES_Group3	± 0.68 [0.16%]	± 0.13 [0.05%]	± 0.08 [0.09%]	± 0.37 [1.0%]	± 0.17 [1.0%]
alpha_ckw-Wjets	± 0.66 [0.15%]	± 0.58 [0.22%]	± 0.26 [0.29%]	± 0.21 [0.57%]	± 0.11 [0.67%]
alpha_MUON_Eff_sys	± 0.64 [0.15%]	± 0.48 [0.18%]	± 0.26 [0.29%]	± 0.17 [0.46%]	± 0.10 [0.62%]
alpha_MUON_MS	± 0.63 [0.15%]	± 0.56 [0.21%]	± 0.05 [0.05%]	± 0.05 [0.15%]	± 0.02 [0.12%]
alpha_MET_SoftTrk	± 0.48 [0.11%]	± 0.06 [0.02%]	± 0.03 [0.03%]	± 0.01 [0.03%]	± 0.06 [0.39%]
alpha_MUON_SCALE	± 0.44 [0.10%]	± 0.39 [0.15%]	± 0.10 [0.11%]	± 0.01 [0.03%]	± 0.00 [0.03%]
alpha_qsf-Wjets	± 0.37 [0.09%]	± 0.13 [0.05%]	± 0.04 [0.04%]	± 0.08 [0.21%]	± 0.04 [0.24%]
alpha_btag_Extra	± 0.36 [0.08%]	± 0.15 [0.06%]	± 0.03 [0.04%]	± 0.07 [0.18%]	± 0.07 [0.44%]
alpha_MatrixElement-Top1L	± 0.33 [0.08%]	± 2.85 [1.1%]	± 1.71 [1.9%]	± 1.16 [3.2%]	± 0.98 [6.0%]
alpha_muR_muF-Zjets	± 0.31 [0.07%]	± 0.10 [0.04%]	± 0.02 [0.02%]	± 0.01 [0.02%]	± 0.01 [0.05%]
alpha_btag_ExtraFromCharm	± 0.29 [0.07%]	± 0.08 [0.03%]	± 0.02 [0.02%]	± 0.00 [0.01%]	± 0.00 [0.02%]
alpha_EG_RESOLUTION_ALL	± 0.21 [0.05%]	± 0.16 [0.06%]	± 0.06 [0.06%]	± 0.04 [0.11%]	± 0.03 [0.17%]
alpha_JET_EtaInt_negEta	± 0.15 [0.04%]	± 0.02 [0.01%]	± 0.00 [0.00%]	± 0.01 [0.01%]	± 0.01 [0.05%]
alpha_btag_CT	± 0.14 [0.03%]	± 0.08 [0.03%]	± 0.01 [0.01%]	± 0.01 [0.04%]	± 0.02 [0.15%]
alpha_EG_Reco	± 0.12 [0.03%]	± 0.07 [0.03%]	± 0.03 [0.03%]	± 0.01 [0.03%]	± 0.01 [0.04%]
alpha_MUON_Eff_Iso_sys	± 0.08 [0.02%]	± 0.05 [0.02%]	± 0.02 [0.02%]	± 0.01 [0.02%]	± 0.00 [0.01%]
alpha_MUON_Eff_stat	± 0.05 [0.01%]	± 0.04 [0.01%]	± 0.01 [0.02%]	± 0.01 [0.02%]	± 0.00 [0.02%]
alpha_ckw-Zjets	± 0.05 [0.01%]	± 0.02 [0.01%]	± 0.01 [0.02%]	± 0.00 [0.01%]	± 0.00 [0.01%]
alpha_qsf-Zjets	± 0.03 [0.01%]	± 0.01 [0.00%]	± 0.01 [0.01%]	± 0.00 [0.01%]	± 0.00 [0.01%]
mu_tt_1L	± 0.02 [0.01%]	± 0.01 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JET_RelNonClos_AFII	± 0.01 [0.00%]	± 0.03 [0.01%]	± 0.01 [0.01%]	± 0.00 [0.00%]	± 0.00 [0.01%]
alpha_MUON_TTVA_stat	± 0.01 [0.00%]	± 0.01 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.01%]	± 0.00 [0.00%]
alpha_JET_EtaInt_posEta	± 0.01 [0.00%]	± 0.01 [0.00%]	± 0.02 [0.02%]	± 0.00 [0.00%]	± 0.00 [0.03%]
alpha_MUON_Eff_Iso_stat	± 0.01 [0.00%]	± 0.01 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JER_DataVsMC_AFII	± 0.01 [0.00%]	± 0.01 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
mu_W	± 0.01 [0.00%]	± 0.01 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JET_EtaInt_highE	± 0.00 [0.00%]	± 0.03 [0.01%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
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_SCALE_AF2	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR1LBin4_Incl.cuts.bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 1.28 [7.8%]
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%]
gamma_stat_SR1LBin1_Incl.cuts.bin_0	± 0.00 [0.00%]	± 5.12 [1.9%]	± 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%]