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	±32.27 [18.88%]	±30.15 [17.58%]	±10.49 [19.24%]	±3.81 [18.93%]	±3.65 [22.31%]
alpha_ISR-Top1L	±20.63 [12.1%]	±17.86 [10.4%]	±5.18 [9.5%]	±1.61 [8.0%]	±1.14 [7.0%]
alpha_PartonShower-Top1L	±17.16 [10.0%]	±18.62 [10.9%]	±6.49 [11.9%]	±1.90 [9.4%]	±1.21 [7.4%]
alpha_MatrixElement-Top1L	±9.07 [5.3%]	±10.90 [6.4%]	±2.87 [5.3%]	±0.75 [3.7%]	±1.30 [7.9%]
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_JER_EffectiveNP_2	±5.27 [3.1%]	±1.18 [0.69%]	±1.10 [2.0%]	±0.34 [1.7%]	±0.62 [3.8%]
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-Wjets	±3.40 [2.0%]	±5.09 [3.0%]	±2.11 [3.9%]	±0.47 [2.3%]	±1.06 [6.5%]
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_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_muR_muF-Diboson	±1.36 [0.79%]	±1.68 [0.98%]	±0.80 [1.5%]	±0.37 [1.9%]	±0.47 [2.8%]
alpha_Interference-SingleTop	±1.08 [0.63%]	±2.75 [1.6%]	±2.18 [4.0%]	±1.46 [7.3%]	±1.26 [7.7%]
alpha_ckkw-Wjets	±0.87 [0.51%]	±0.93 [0.54%]	±0.44 [0.81%]	±0.11 [0.53%]	±0.09 [0.53%]
alpha_JES_Group3	±0.80 [0.47%]	±0.05 [0.03%]	±0.29 [0.54%]	±0.21 [1.0%]	±0.17 [1.0%]
alpha_qsf-Wjets	±0.69 [0.40%]	±0.75 [0.44%]	±0.27 [0.49%]	±0.05 [0.27%]	±0.05 [0.28%]
Lumi	±0.68 [0.40%]	±0.84 [0.49%]	±0.34 [0.62%]	±0.15 [0.74%]	±0.13 [0.80%]
alpha_FSR-Top1L	±0.47 [0.27%]	±0.01 [0.00%]	±0.67 [1.2%]	±0.95 [4.7%]	±0.34 [2.1%]
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_JET_EtaInt_negEta	±0.17 [0.10%]	±0.02 [0.01%]	±0.01 [0.01%]	±0.00 [0.01%]	±0.01 [0.05%]
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_qsf-Zjets	±0.02 [0.01%]	±0.00 [0.00%]	±0.01 [0.02%]	±0.00 [0.01%]	±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 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]	±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%]
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_JET_EtaInt_posEta	±0.00 [0.00%]	±0.03 [0.02%]	±0.02 [0.03%]	±0.00 [0.01%]	±0.00 [0.03%]
gamma_stat_SR1LBin3_cuts_bin_0	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]	±1.12 [5.6%]	±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%]
gamma_stat_SR1LBin2_cuts_bin_0	±0.00 [0.00%]	±0.00 [0.00%]	±2.37 [4.3%]	±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%]
gamma_stat_SR1LBin1_cuts_bin_0	±0.00 [0.00%]	±4.21 [2.5%]	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]
gamma_stat_tW1L_CRWp_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_tW1L_CRtt_cuts_bin_0	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]

Table 1: Breakdown of the dominant systematic uncertainties on background estimates in the various signal regions. Note that the individual uncertainties can be correlated, and do not necessarily add up quadratically to the total background uncertainty. The percentages show the size of the uncertainty relative to the total expected background.