Uncertainty of channel	SR1LBin0	SR1LBin1	SR1LBin2	SR1LBin3	SR1LBin4
Total background expectation	168.17	170.86	54.01	19.72	15.28
Total statistical ($\sqrt{N_{\text{exp}}}$)	±12.97	±13.07	±7.35	±4.44	±3.91
Total background systematic	±14.52 [8.64%]	±13.49 [7.89%]	±6.29 [11.64%]	±2.83 [14.37%]	±2.87 [18.79%]
mu_tt_1L	±19.37 [11.5%]	±16.24 [9.5%]	±3.92 [7.3%]	±0.99 [5.0%]	±0.49 [3.2%]
alpha_MatrixElement-Top1L	±12.38 [7.4%]	±8.10 [4.7%]	±1.75 [3.2%]	±0.44 [2.3%]	±0.34 [2.2%]
alpha_JER_EffectiveNP_1	±6.73 [4.0%]	±2.08 [1.2%]	±0.94 [1.7%]	±0.18 [0.92%]	±0.22 [1.5%]
alpha_JER_EffectiveNP_2	±5.21 [3.1%]	±1.15 [0.67%]	±1.01 [1.9%]	±0.32 [1.6%]	±0.65 [4.2%]
alpha_FSR-Top1L	±4.33 [2.6%]	±3.97 [2.3%]	±0.26 [0.47%]	±0.66 [3.3%]	±0.15 [1.0%]
gamma_stat_SR1LBin0_cuts_bin_0	±4.16 [2.5%]	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]
alpha_PartonShower-Top1L	±4.11 [2.4%]	±6.82 [4.0%]	±3.21 [6.0%]	±0.99 [5.0%]	±0.67 [4.4%]
alpha_JER_DataVsMC	±4.04 [2.4%]	±0.93 [0.54%]	±1.06 [2.0%]	±0.31 [1.6%]	±0.43 [2.8%]
alpha_JER_EffectiveNP_7restTerm	±3.94 [2.3%]	±1.08 [0.63%]	±0.15 [0.27%]	±0.22 [1.1%]	±0.08 [0.51%]
alpha_PartonShower-SingleTop	±3.88 [2.3%]	±0.41 [0.24%]	±1.95 [3.6%]	±0.77 [3.9%]	±0.38 [2.5%]
alpha_JES_Group2	±3.45 [2.1%]	±1.04 [0.61%]	±1.22 [2.3%]	±0.02 [0.11%]	±0.02 [0.11%]
alpha_muR_muF-ttV	±3.06 [1.8%]	±4.68 [2.7%]	±2.11 [3.9%]	±0.88 [4.5%]	±0.64 [4.2%]
alpha_JER_EffectiveNP_3	±2.96 [1.8%]	±1.66 [0.97%]	±0.24 [0.45%]	±0.64 [3.2%]	±0.45 [2.9%]
alpha_JES_Group1	±2.93 [1.7%]	±1.02 [0.60%]	±0.98 [1.8%]	±0.46 [2.3%]	±0.01 [0.05%]
alpha_JER_EffectiveNP_4	±2.89 [1.7%]	±2.61 [1.5%]	±0.59 [1.1%]	±0.07 [0.37%]	±0.07 [0.48%]
alpha_JER_EffectiveNP_5	±2.52 [1.5%]	±1.90 [1.1%]	±0.63 [1.2%]	±0.24 [1.2%]	±0.07 [0.48%]
alpha_JET_Flavor_Response	±2.34 [1.4%]	±0.78 [0.45%]	±0.21 [0.39%]	±0.18 [0.93%]	±0.07 [0.45%]
mu_W	±2.26 [1.3%]	±3.02 [1.8%]	±1.16 [2.1%]	±0.50 [2.5%]	±0.48 [3.1%]
alpha_FSR-SingleTop	±1.85 [1.1%]	±0.55 [0.32%]	±0.01 [0.01%]	±0.04 [0.18%]	±1.06 [6.9%]
alpha_ISR-SingleTop	±1.83 [1.1%]	±2.87 [1.7%]	±1.05 [1.9%]	±0.54 [2.8%]	±1.07 [7.0%]
alpha_MatrixElement-SingleTop	±1.56 [0.93%]	±2.42 [1.4%]	±0.12 [0.23%]	±0.25 [1.2%]	±0.35 [2.3%]
alpha_muR_muF-Diboson	±1.35 [0.80%]	±1.67 [0.98%]	±0.79 [1.5%]	±0.38 [1.9%]	±0.46 [3.0%]
alpha_Interference-SingleTop	±1.07 [0.64%]	±2.71 [1.6%]	±2.15 [4.0%]	±1.44 [7.3%]	±1.26 [8.2%]
alpha_ISR-Top1L	±0.93 [0.55%]	±1.73 [1.0%]	±1.62 [3.0%]	±0.77 [3.9%]	±0.76 [5.0%]
alpha_JES_Group3	±0.83 [0.49%]	±0.02 [0.01%]	±0.31 [0.58%]	±0.19 [0.99%]	±0.13 [0.83%]
alpha_muR_muF-Wjets	±0.75 [0.44%]	±1.63 [0.96%]	±0.76 [1.4%]	±0.08 [0.42%]	±0.53 [3.5%]
Lumi	±0.64 [0.38%]	±0.81 [0.47%]	±0.32 [0.59%]	±0.14 [0.71%]	±0.11 [0.75%]
alpha_qsf-Wjets	±0.25 [0.15%]	±0.17 [0.10%]	±0.04 [0.08%]	±0.04 [0.21%]	±0.05 [0.30%]
alpha_muR_muF-Zjets	±0.23 [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 [0.06%]
alpha_ckkw-Wjets	±0.09 [0.05%]	±0.36 [0.21%]	±0.05 [0.10%]	±0.11 [0.55%]	±0.12 [0.81%]
alpha_JET_EtaInt_highE	±0.03 [0.02%]	±0.03 [0.01%]	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]
alpha_ckkw-Zjets	±0.02 [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%]
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 [0.04%]	±0.00 [0.01%]	±0.00 [0.03%]
alpha_JER_EffectiveNP_6	±0.00 [0.00%]	±2.38 [1.4%]	±0.23 [0.42%]	±0.21 [1.1%]	±0.08 [0.52%]
gamma_stat_SR1LBin3_cuts_bin_0	±0.00 [0.00%]	±0.00 [0.00%]	±0.00 [0.00%]	±1.10 [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_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%]
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_SR1LBin2_cuts_bin_0	±0.00 [0.00%]	±0.00 [0.00%]	±2.34 [4.3%]	±0.00 [0.00%]	±0.00 [0.00%]
gamma_stat_tW1L_VRW_VR2p_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_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%]	±1.20 [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%]
gamma_stat_SR1LBin1_cuts_bin_0	±0.00 [0.00%]	±4.19 [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_VRtt_VR1_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.