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	±16.80 [9.83%]	±14.71 [8.58%]	±7.07 [12.96%]	±3.07 [15.26%]	±3.40 [20.73%]
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_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_MatrixElement-Top1L	±1.44 [0.84%]	±3.91 [2.3%]	±1.35 [2.5%]	±0.36 [1.8%]	±1.54 [9.4%]
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_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_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_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_JET_EtaInt_negEta	±0.17 [0.10%]	±0.02 [0.01%]	±0.01 [0.01%]	±0.00 [0.01%]	±0.01 [0.05%]
alpha_ckkw-Wjets	±0.08 [0.05%]	±0.32 [0.18%]	±0.05 [0.09%]	±0.10 [0.49%]	±0.11 [0.67%]
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_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%]	±2.37 [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%]	±1.28 [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%]
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_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.