

Uncertainty of channel	SR2L_Top2L	SR2L_SingleTop
Total background expectation	3.76	0.15
Total statistical ( $\sqrt{N_{\text{exp}}}$ )	$\pm 1.94$	$\pm 0.39$
Total background systematic	$\pm 2.39$ [63.54%]	$\pm 0.02$ [15.72%]
alpha_JER_EffectiveNP_3	$\pm 1.25$ [33.2%]	$\pm 0.00$ [1.9%]
alpha_JER_EffectiveNP_1	$\pm 1.01$ [26.8%]	$\pm 0.00$ [1.9%]
alpha_JER_EffectiveNP_2	$\pm 0.81$ [21.6%]	$\pm 0.00$ [1.8%]
alpha_JES_Group2	$\pm 0.81$ [21.5%]	$\pm 0.00$ [1.8%]
alpha_JES_Group1	$\pm 0.80$ [21.2%]	$\pm 0.00$ [1.2%]
alpha_JET_Flavor_Response	$\pm 0.78$ [20.8%]	$\pm 0.00$ [1.8%]
alpha_JER_EffectiveNP_5	$\pm 0.76$ [20.2%]	$\pm 0.00$ [1.8%]
alpha_MatrixElement-Top2L	$\pm 0.72$ [19.0%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_7restTerm	$\pm 0.70$ [18.5%]	$\pm 0.00$ [1.8%]
alpha_JER_EffectiveNP_6	$\pm 0.66$ [17.6%]	$\pm 0.00$ [1.8%]
alpha_ISR-Top2L	$\pm 0.63$ [16.9%]	$\pm 0.00$ [0.00%]
mu_tt_2L	$\pm 0.55$ [14.6%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_4	$\pm 0.54$ [14.3%]	$\pm 0.00$ [1.8%]
alpha_PartonShower-Top2L	$\pm 0.43$ [11.4%]	$\pm 0.00$ [0.00%]
alpha_JER_DataVsMC	$\pm 0.33$ [8.7%]	$\pm 0.00$ [1.8%]
gamma_stat_SR2L_cuts_bin_0	$\pm 0.30$ [7.9%]	$\pm 0.01$ [7.9%]
alpha_pileup	$\pm 0.14$ [3.7%]	$\pm 0.01$ [5.7%]
alpha_MET_SoftTrk_ResoPara	$\pm 0.10$ [2.6%]	$\pm 0.00$ [1.8%]
alpha_FSR-Top2L	$\pm 0.09$ [2.4%]	$\pm 0.00$ [0.00%]
alpha_MET_SoftTrk_ResoPerp	$\pm 0.06$ [1.6%]	$\pm 0.00$ [1.8%]
alpha_btag_BT	$\pm 0.06$ [1.5%]	$\pm 0.01$ [4.3%]
alpha_MUON_Trig_sys	$\pm 0.05$ [1.4%]	$\pm 0.01$ [3.7%]
alpha_EG_RESOLUTION_ALL	$\pm 0.05$ [1.3%]	$\pm 0.00$ [1.7%]
alpha_MET_SoftTrk	$\pm 0.05$ [1.3%]	$\pm 0.00$ [1.7%]
alpha_MUON_MS	$\pm 0.04$ [0.96%]	$\pm 0.00$ [0.03%]
alpha_JVT	$\pm 0.03$ [0.75%]	$\pm 0.00$ [0.35%]
alpha_MUON_SCALE	$\pm 0.03$ [0.74%]	$\pm 0.00$ [0.02%]
alpha_MUON_ID	$\pm 0.03$ [0.69%]	$\pm 0.00$ [1.7%]
alpha_EG_Eff	$\pm 0.02$ [0.60%]	$\pm 0.00$ [2.0%]
alpha_btag_LightT	$\pm 0.01$ [0.31%]	$\pm 0.00$ [0.61%]
alpha_MUON_Eff_sys	$\pm 0.01$ [0.26%]	$\pm 0.00$ [1.1%]
alpha_EG_SCALE_ALL	$\pm 0.01$ [0.22%]	$\pm 0.00$ [1.6%]
alpha_MUON_Trig_stat	$\pm 0.00$ [0.10%]	$\pm 0.00$ [0.17%]
alpha_EG_Reco	$\pm 0.00$ [0.09%]	$\pm 0.00$ [0.14%]
alpha_btag_CT	$\pm 0.00$ [0.07%]	$\pm 0.00$ [0.62%]
alpha_EG_Trig	$\pm 0.00$ [0.07%]	$\pm 0.00$ [0.13%]
alpha_MUON_Eff_Iso_sys	$\pm 0.00$ [0.04%]	$\pm 0.00$ [0.12%]
alpha_JES_Group3	$\pm 0.00$ [0.03%]	$\pm 0.00$ [0.02%]
alpha_MUON_Eff_Iso_stat	$\pm 0.00$ [0.02%]	$\pm 0.00$ [0.02%]
alpha_btag_Extra	$\pm 0.00$ [0.02%]	$\pm 0.01$ [6.2%]
alpha_JET_EtaInt_posEta	$\pm 0.00$ [0.02%]	$\pm 0.00$ [1.7%]
alpha_JET_EtaInt_negEta	$\pm 0.00$ [0.01%]	$\pm 0.00$ [1.7%]
alpha_EG_TrigEff	$\pm 0.00$ [0.01%]	$\pm 0.00$ [0.05%]
alpha_MUON_TTVA_stat	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.02%]
gamma_stat_tW2L_CRtt_cuts_bin_0	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_JER_DataVsMC_AFII	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_btag_ExtraFromCharm	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.26%]
alpha_MUON_TTVA_sys	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_JET_EtaInt_highE	$\pm 0.00$ [0.00%]	$\pm 0.00$ [1.7%]
mu_ttV	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_muR_muF_ttV	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
mu_dib	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_fJVT	$\pm 0.00$ [0.00%]	$\pm 0.00$ [1.7%]
alpha_MUON_Eff_stat_lowpt	$\pm 0.00$ [0.00%]	$\pm 0.00$ [1.7%]
Lumi	$\pm 0.00$ [0.00%]	$\pm 0.00$ [1.7%]
alpha_fakesSyst	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_sys_lowpt	$\pm 0.00$ [0.00%]	$\pm 0.00$ [1.7%]
alpha_MUON_Eff_stat	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.13%]
gamma_stat_tW2L_CRWZ_cuts_bin_0	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_EG_SCALE_AF2	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_JET_RelNonClos_AFII	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_muR_muF-Diboson	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_BadMuon_sys	$\pm 0.00$ [0.00%]	$\pm 0.00$ [1.7%]
alpha_MUON_Eff_BadMuon_stat	$\pm 0.00$ [0.00%]	$\pm 0.00$ [1.7%]
gamma_stat_tW2L_CRttZ_cuts_bin_0	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]