

Uncertainty of channel	SR2L_Top2L	SR2L_SingleTop
Total background expectation	3.78	0.82
Total statistical ( $\sqrt{N_{\text{exp}}}$ )	$\pm 1.94$	$\pm 0.91$
Total background systematic	$\pm 2.00$ [52.90%]	$\pm 0.68$ [82.77%]
alpha_JER_EffectiveNP_3	$\pm 1.22$ [32.2%]	$\pm 0.23$ [28.7%]
alpha_JER_EffectiveNP_1	$\pm 1.00$ [26.3%]	$\pm 0.23$ [28.3%]
alpha_JER_EffectiveNP_2	$\pm 0.81$ [21.5%]	$\pm 0.23$ [28.1%]
alpha_JES_Group2	$\pm 0.80$ [21.2%]	$\pm 0.12$ [15.1%]
alpha_JES_Group1	$\pm 0.80$ [21.1%]	$\pm 0.12$ [14.6%]
alpha_JET_Flavor_Response	$\pm 0.78$ [20.6%]	$\pm 0.12$ [14.6%]
alpha_JER_EffectiveNP_5	$\pm 0.76$ [20.2%]	$\pm 0.23$ [28.0%]
alpha_MatrixElement-Top2L	$\pm 0.74$ [19.7%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_7restTerm	$\pm 0.70$ [18.6%]	$\pm 0.23$ [28.0%]
alpha_JER_EffectiveNP_6	$\pm 0.66$ [17.4%]	$\pm 0.22$ [26.7%]
alpha_ISR-Top2L	$\pm 0.65$ [17.3%]	$\pm 0.00$ [0.00%]
mu_tt_2L	$\pm 0.55$ [14.4%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_4	$\pm 0.54$ [14.3%]	$\pm 0.23$ [28.1%]
alpha_PartonShower-Top2L	$\pm 0.46$ [12.1%]	$\pm 0.00$ [0.00%]
alpha_JER_DataVsMC	$\pm 0.32$ [8.6%]	$\pm 0.23$ [27.6%]
gamma_stat_SR2L_cuts_bin_0	$\pm 0.30$ [8.0%]	$\pm 0.07$ [8.0%]
alpha_pileup	$\pm 0.14$ [3.6%]	$\pm 0.00$ [0.00%]
alpha_MET_SoftTrk_ResoPara	$\pm 0.10$ [2.6%]	$\pm 0.00$ [0.00%]
alpha_FSR-Top2L	$\pm 0.09$ [2.3%]	$\pm 0.00$ [0.00%]
alpha_MET_SoftTrk_ResoPerp	$\pm 0.06$ [1.6%]	$\pm 0.00$ [0.00%]
alpha_btag_BT	$\pm 0.06$ [1.5%]	$\pm 0.00$ [0.00%]
alpha_MUON_Trig_sys	$\pm 0.05$ [1.4%]	$\pm 0.00$ [0.00%]
alpha_EG_RESOLUTION_ALL	$\pm 0.05$ [1.3%]	$\pm 0.00$ [0.00%]
alpha_MET_SoftTrk	$\pm 0.05$ [1.3%]	$\pm 0.00$ [0.00%]
alpha_MUON_MS	$\pm 0.04$ [0.97%]	$\pm 0.00$ [0.00%]
alpha_MUON_SCALE	$\pm 0.03$ [0.75%]	$\pm 0.00$ [0.00%]
alpha_JVT	$\pm 0.03$ [0.74%]	$\pm 0.00$ [0.00%]
alpha_MUON_ID	$\pm 0.03$ [0.69%]	$\pm 0.00$ [0.00%]
alpha_EG_Eff	$\pm 0.02$ [0.60%]	$\pm 0.00$ [0.00%]
alpha_btag_LightT	$\pm 0.01$ [0.31%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_sys	$\pm 0.01$ [0.26%]	$\pm 0.00$ [0.00%]
alpha_EG_SCALE_ALL	$\pm 0.01$ [0.22%]	$\pm 0.00$ [0.00%]
alpha_MUON_Trig_stat	$\pm 0.00$ [0.10%]	$\pm 0.00$ [0.00%]
alpha_EG_Reco	$\pm 0.00$ [0.08%]	$\pm 0.00$ [0.00%]
alpha_btag_CT	$\pm 0.00$ [0.07%]	$\pm 0.00$ [0.00%]
alpha_EG_Trig	$\pm 0.00$ [0.07%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_Iso_sys	$\pm 0.00$ [0.04%]	$\pm 0.00$ [0.00%]
alpha_JES_Group3	$\pm 0.00$ [0.04%]	$\pm 0.00$ [0.52%]
alpha_MUON_Eff_Iso_stat	$\pm 0.00$ [0.02%]	$\pm 0.00$ [0.00%]
alpha_btag_Extra	$\pm 0.00$ [0.02%]	$\pm 0.00$ [0.00%]
alpha_JET_EtaInt_negEta	$\pm 0.00$ [0.02%]	$\pm 0.23$ [28.2%]
alpha_JET_EtaInt_posEta	$\pm 0.00$ [0.01%]	$\pm 0.23$ [28.4%]
alpha_EG_TrigEff	$\pm 0.00$ [0.01%]	$\pm 0.00$ [0.00%]
alpha_MUON_TTVA_stat	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
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%]	$\pm 0.00$ [0.00%]
alpha_MUON_TTVA_sys	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_JET_EtaInt_highE	$\pm 0.00$ [0.00%]	$\pm 0.23$ [28.4%]
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%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_stat_lowpt	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
Lumi	$\pm 0.00$ [0.00%]	$\pm 0.01$ [1.7%]
alpha_fakesSyst	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_sys_lowpt	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_stat	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
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%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_BadMuon_stat	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
gamma_stat_tW2L_CRttZ_cuts_bin_0	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]