

Uncertainty of channel	SR2L_Top2L	SR2L_SingleTop
Total background expectation	2.79	1.12
Total statistical ( $\sqrt{N_{\text{exp}}}$ )	$\pm 1.67$	$\pm 1.06$
Total background systematic	$\pm 2.29$ [81.95%]	$\pm 1.10$ [98.55%]
alpha_JER_EffectiveNP_3	$\pm 0.93$ [33.2%]	$\pm 0.00$ [0.22%]
alpha_JER_EffectiveNP_1	$\pm 0.76$ [27.2%]	$\pm 0.00$ [0.25%]
alpha_MatrixElement-Top2L	$\pm 0.64$ [23.1%]	$\pm 0.00$ [0.00%]
alpha_JES_Group2	$\pm 0.63$ [22.4%]	$\pm 0.03$ [2.7%]
alpha_JER_EffectiveNP_2	$\pm 0.61$ [22.0%]	$\pm 0.00$ [0.24%]
alpha_JET_Flavor_Response	$\pm 0.60$ [21.7%]	$\pm 0.03$ [2.7%]
alpha_JES_Group1	$\pm 0.60$ [21.5%]	$\pm 0.02$ [1.6%]
alpha_JER_EffectiveNP_5	$\pm 0.58$ [20.7%]	$\pm 0.00$ [0.18%]
mu_tt_2L	$\pm 0.56$ [20.1%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_7restTerm	$\pm 0.53$ [18.9%]	$\pm 0.00$ [0.23%]
alpha_JER_EffectiveNP_6	$\pm 0.50$ [18.0%]	$\pm 0.00$ [0.18%]
alpha_ISR-Top2L	$\pm 0.49$ [17.6%]	$\pm 0.00$ [0.00%]
alpha_PartonShower-Top2L	$\pm 0.45$ [16.3%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_4	$\pm 0.40$ [14.5%]	$\pm 0.00$ [0.19%]
alpha_JER_DataVsMC	$\pm 0.25$ [8.8%]	$\pm 0.00$ [0.09%]
gamma_stat_SR2L_cuts_bin_0	$\pm 0.22$ [7.9%]	$\pm 0.09$ [7.9%]
alpha_pileup	$\pm 0.10$ [3.8%]	$\pm 0.06$ [5.6%]
alpha_MET_SoftTrk_ResoPara	$\pm 0.07$ [2.6%]	$\pm 0.04$ [3.4%]
alpha_FSR-Top2L	$\pm 0.07$ [2.3%]	$\pm 0.00$ [0.00%]
alpha_MET_SoftTrk_ResoPerp	$\pm 0.05$ [1.6%]	$\pm 0.04$ [3.4%]
alpha_btag_BT	$\pm 0.04$ [1.5%]	$\pm 0.05$ [4.2%]
alpha_MUON_Trig_sys	$\pm 0.04$ [1.4%]	$\pm 0.04$ [3.5%]
alpha_EG_RESOLUTION_ALL	$\pm 0.04$ [1.3%]	$\pm 0.00$ [0.00%]
alpha_MET_SoftTrk	$\pm 0.03$ [1.2%]	$\pm 0.04$ [3.4%]
alpha_MUON_MS	$\pm 0.03$ [0.97%]	$\pm 0.00$ [0.00%]
alpha_MUON_SCALE	$\pm 0.02$ [0.75%]	$\pm 0.00$ [0.00%]
alpha_JVT	$\pm 0.02$ [0.74%]	$\pm 0.00$ [0.39%]
alpha_MUON_ID	$\pm 0.02$ [0.71%]	$\pm 0.04$ [3.4%]
alpha_EG_Eff	$\pm 0.02$ [0.60%]	$\pm 0.02$ [2.0%]
alpha_btag_LightT	$\pm 0.01$ [0.31%]	$\pm 0.01$ [0.60%]
alpha_MUON_Eff_sys	$\pm 0.01$ [0.26%]	$\pm 0.01$ [1.1%]
alpha_EG_SCALE_ALL	$\pm 0.01$ [0.22%]	$\pm 0.00$ [0.00%]
alpha_MUON_Trig_stat	$\pm 0.00$ [0.10%]	$\pm 0.00$ [0.16%]
alpha_EG_Reco	$\pm 0.00$ [0.08%]	$\pm 0.00$ [0.14%]
alpha_btag_CT	$\pm 0.00$ [0.07%]	$\pm 0.01$ [0.61%]
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%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_Iso_stat	$\pm 0.00$ [0.02%]	$\pm 0.00$ [0.02%]
alpha_btag_Extra	$\pm 0.00$ [0.02%]	$\pm 0.07$ [6.1%]
alpha_JET_EtaInt_posEta	$\pm 0.00$ [0.02%]	$\pm 0.00$ [0.00%]
alpha_JET_EtaInt_negEta	$\pm 0.00$ [0.01%]	$\pm 0.00$ [0.00%]
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%]	$\pm 0.00$ [0.00%]
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%]
alpha_singletopSyst	$\pm 0.00$ [0.00%]	$\pm 1.07$ [95.5%]
Lumi	$\pm 0.00$ [0.00%]	$\pm 0.02$ [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%]	$\pm 0.00$ [0.13%]
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%]	$\pm 0.00$ [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%]