

Uncertainty of channel	SR2L_Top2L	SR2L_SingleTop
Total background expectation	0.98	7.23
Total statistical ( $\sqrt{N_{\text{exp}}}$ )	$\pm 0.99$	$\pm 2.69$
Total background systematic	$\pm 0.66$ [67.36%]	$\pm 3.64$ [50.36%]
alpha_JER_EffectiveNP_3	$\pm 0.33$ [33.6%]	$\pm 5.29$ [73.3%]
alpha_JER_EffectiveNP_1	$\pm 0.27$ [27.1%]	$\pm 5.30$ [73.3%]
alpha_MatrixElement-Top2L	$\pm 0.25$ [26.1%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_2	$\pm 0.21$ [21.6%]	$\pm 5.30$ [73.3%]
alpha_ISR-Top2L	$\pm 0.20$ [20.2%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_5	$\pm 0.19$ [19.7%]	$\pm 5.28$ [73.1%]
alpha_PartonShower-Top2L	$\pm 0.18$ [18.1%]	$\pm 0.00$ [0.00%]
alpha_JER_EffectiveNP_7restTerm	$\pm 0.18$ [17.9%]	$\pm 5.28$ [73.1%]
alpha_JER_EffectiveNP_6	$\pm 0.17$ [17.0%]	$\pm 5.28$ [73.1%]
alpha_JES_Group1	$\pm 0.16$ [15.9%]	$\pm 0.00$ [0.04%]
alpha_JES_Group2	$\pm 0.15$ [15.6%]	$\pm 0.05$ [0.74%]
alpha_JER_EffectiveNP_4	$\pm 0.13$ [13.4%]	$\pm 5.28$ [73.1%]
mu_tt_2L	$\pm 0.13$ [13.1%]	$\pm 0.00$ [0.00%]
alpha_JET_Flavor_Response	$\pm 0.12$ [12.7%]	$\pm 0.05$ [0.70%]
alpha_JER_DataVsMC	$\pm 0.08$ [8.0%]	$\pm 5.28$ [73.1%]
gamma_stat_SR2L_cuts_bin_0	$\pm 0.07$ [7.2%]	$\pm 0.52$ [7.2%]
alpha_pileup	$\pm 0.03$ [2.7%]	$\pm 0.05$ [0.67%]
alpha_MET_SoftTrk_ResoPara	$\pm 0.02$ [2.3%]	$\pm 5.30$ [73.4%]
alpha_FSR-Top2L	$\pm 0.02$ [2.1%]	$\pm 0.00$ [0.00%]
alpha_MET_SoftTrk_ResoPerp	$\pm 0.01$ [1.5%]	$\pm 5.30$ [73.3%]
alpha_btag_BT	$\pm 0.01$ [1.2%]	$\pm 0.04$ [0.60%]
alpha_EG_RESOLUTION_ALL	$\pm 0.01$ [1.1%]	$\pm 5.28$ [73.1%]
alpha_MUON_Trig_sys	$\pm 0.01$ [1.1%]	$\pm 0.03$ [0.38%]
alpha_MET_SoftTrk	$\pm 0.01$ [1.0%]	$\pm 0.02$ [0.21%]
alpha_MUON_MS	$\pm 0.01$ [0.81%]	$\pm 0.00$ [0.00%]
alpha_MUON_SCALE	$\pm 0.01$ [0.61%]	$\pm 0.00$ [0.01%]
alpha_JVT	$\pm 0.01$ [0.58%]	$\pm 0.00$ [0.04%]
alpha_MUON_ID	$\pm 0.01$ [0.56%]	$\pm 0.02$ [0.28%]
alpha_EG_Eff	$\pm 0.00$ [0.47%]	$\pm 0.03$ [0.44%]
alpha_btag_LightT	$\pm 0.00$ [0.24%]	$\pm 0.01$ [0.08%]
alpha_MUON_Eff_sys	$\pm 0.00$ [0.21%]	$\pm 0.02$ [0.21%]
alpha_MUON_Trig_stat	$\pm 0.00$ [0.08%]	$\pm 0.00$ [0.02%]
alpha_EG_Reco	$\pm 0.00$ [0.07%]	$\pm 0.00$ [0.04%]
alpha_EG_SCALE_ALL	$\pm 0.00$ [0.06%]	$\pm 5.28$ [73.1%]
alpha_btag_CT	$\pm 0.00$ [0.06%]	$\pm 0.00$ [0.05%]
alpha_EG_Trig	$\pm 0.00$ [0.05%]	$\pm 0.00$ [0.01%]
alpha_MUON_Eff_Iso_sys	$\pm 0.00$ [0.03%]	$\pm 0.00$ [0.03%]
alpha_JES_Group3	$\pm 0.00$ [0.03%]	$\pm 0.00$ [0.03%]
alpha_JET_EtaInt_posEta	$\pm 0.00$ [0.02%]	$\pm 5.28$ [73.1%]
alpha_MUON_Eff_Iso_stat	$\pm 0.00$ [0.02%]	$\pm 0.00$ [0.00%]
alpha_btag_Extra	$\pm 0.00$ [0.01%]	$\pm 0.06$ [0.80%]
alpha_JET_EtaInt_negEta	$\pm 0.00$ [0.01%]	$\pm 5.28$ [73.1%]
alpha_EG_TrigEff	$\pm 0.00$ [0.01%]	$\pm 0.00$ [0.01%]
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%]	$\pm 0.00$ [0.05%]
alpha_MUON_TTVA_sys	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_JET_EtaInt_highE	$\pm 0.00$ [0.00%]	$\pm 5.28$ [73.1%]
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%]	$\pm 5.28$ [73.1%]
alpha_MUON_Eff_stat_lowpt	$\pm 0.00$ [0.00%]	$\pm 5.28$ [73.1%]
Lumi	$\pm 0.00$ [0.00%]	$\pm 0.12$ [1.7%]
alpha_fakesSyst	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]
alpha_MUON_Eff_sys_lowpt	$\pm 0.00$ [0.00%]	$\pm 5.28$ [73.1%]
alpha_MUON_Eff_stat	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.03%]
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%]	$\pm 5.28$ [73.1%]
alpha_MUON_Eff_BadMuon_stat	$\pm 0.00$ [0.00%]	$\pm 5.28$ [73.1%]
gamma_stat_tW2L_CRttZ_cuts_bin_0	$\pm 0.00$ [0.00%]	$\pm 0.00$ [0.00%]