

Uncertainty of channel	SR2L_Top2L	SR2L_SingleTop	SR2L_ttV	SR2L_Diboson
Total background expectation	1.17	0.14	3.61	0.68
Total statistical ($\sqrt{N_{\text{exp}}}$)	± 1.08	± 0.38	± 1.90	± 0.83
Total background systematic	± 0.98 [83.76%]	± 0.71 [500.23%]	± 0.76 [20.94%]	± 0.22 [32.45%]
alpha_JER_EffectiveNP_3	± 0.43 [37.0%]	± 0.00 [0.23%]	± 0.04 [1.1%]	± 0.03 [4.1%]
alpha_JER_EffectiveNP_1	± 0.35 [30.0%]	± 0.00 [0.26%]	± 0.07 [2.0%]	± 0.04 [6.5%]
alpha_MatrixElement-Top2L	± 0.30 [26.0%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JER_EffectiveNP_2	± 0.28 [24.0%]	± 0.00 [0.25%]	± 0.11 [3.0%]	± 0.02 [3.0%]
alpha_JER_EffectiveNP_5	± 0.26 [22.0%]	± 0.00 [0.18%]	± 0.05 [1.3%]	± 0.09 [13.0%]
alpha_JES_Group1	± 0.24 [20.5%]	± 0.00 [0.18%]	± 0.17 [4.8%]	± 0.02 [2.9%]
alpha_ISR-Top2L	± 0.24 [20.4%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JES_Group2	± 0.24 [20.2%]	± 0.00 [1.9%]	± 0.17 [4.7%]	± 0.03 [4.3%]
alpha_JER_EffectiveNP_7restTerm	± 0.23 [20.0%]	± 0.00 [0.24%]	± 0.04 [1.1%]	± 0.09 [12.8%]
alpha_JER_EffectiveNP_6	± 0.22 [19.0%]	± 0.00 [0.18%]	± 0.01 [0.36%]	± 0.09 [13.0%]
alpha_PartonShower-Top2L	± 0.21 [17.9%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JET_Flavor_Response	± 0.19 [16.5%]	± 0.00 [1.9%]	± 0.11 [2.9%]	± 0.02 [2.6%]
alpha_JER_EffectiveNP_4	± 0.18 [15.0%]	± 0.00 [0.20%]	± 0.08 [2.2%]	± 0.06 [8.6%]
alpha_JER_DataVsMC	± 0.11 [9.0%]	± 0.00 [0.09%]	± 0.03 [0.81%]	± 0.06 [8.9%]
gamma_stat_SR2L_cuts_bin_0	± 0.10 [8.4%]	± 0.01 [8.4%]	± 0.30 [8.4%]	± 0.06 [8.4%]
alpha_pileup	± 0.04 [3.5%]	± 0.01 [5.1%]	± 0.01 [0.35%]	± 0.02 [3.0%]
alpha_MET_SoftTrk_ResoPara	± 0.03 [2.6%]	± 0.00 [3.5%]	± 0.05 [1.5%]	± 0.00 [0.09%]
alpha_FSR-Top2L	± 0.03 [2.2%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MET_SoftTrk_ResoPerp	± 0.02 [1.7%]	± 0.00 [3.5%]	± 0.01 [0.25%]	± 0.03 [4.6%]
alpha_btag_BT	± 0.02 [1.5%]	± 0.01 [4.2%]	± 0.01 [0.15%]	± 0.00 [0.35%]
alpha_MUON_Trig_sys	± 0.02 [1.4%]	± 0.00 [3.4%]	± 0.04 [1.2%]	± 0.01 [0.92%]
alpha_MET_SoftTrk	± 0.02 [1.3%]	± 0.00 [3.5%]	± 0.00 [0.08%]	± 0.00 [0.03%]
alpha_EG_RESOLUTION_ALL	± 0.02 [1.3%]	± 0.00 [0.00%]	± 0.02 [0.50%]	± 0.00 [0.02%]
alpha_MUON_MS	± 0.01 [1.0%]	± 0.00 [0.00%]	± 0.00 [0.09%]	± 0.01 [2.2%]
alpha_MUON_SCALE	± 0.01 [0.78%]	± 0.00 [0.00%]	± 0.01 [0.23%]	± 0.01 [1.0%]
alpha_JVT	± 0.01 [0.74%]	± 0.00 [0.38%]	± 0.01 [0.16%]	± 0.00 [0.06%]
alpha_MUON_ID	± 0.01 [0.71%]	± 0.00 [3.5%]	± 0.00 [0.07%]	± 0.01 [1.5%]
alpha_EG_Eff	± 0.01 [0.60%]	± 0.00 [2.0%]	± 0.03 [0.78%]	± 0.01 [1.0%]
alpha_btag_LightT	± 0.00 [0.31%]	± 0.00 [0.60%]	± 0.01 [0.34%]	± 0.01 [1.1%]
alpha_MUON_Eff_sys	± 0.00 [0.26%]	± 0.00 [1.1%]	± 0.01 [0.38%]	± 0.00 [0.26%]
alpha_EG_SCALE_ALL	± 0.00 [0.23%]	± 0.00 [0.00%]	± 0.00 [0.06%]	± 0.00 [0.09%]
alpha_MUON_Trig_stat	± 0.00 [0.10%]	± 0.00 [0.16%]	± 0.00 [0.05%]	± 0.00 [0.07%]
alpha_EG_Reco	± 0.00 [0.09%]	± 0.00 [0.14%]	± 0.00 [0.06%]	± 0.00 [0.07%]
alpha_btag_CT	± 0.00 [0.07%]	± 0.00 [0.61%]	± 0.00 [0.00%]	± 0.00 [0.04%]
alpha_EG_Trig	± 0.00 [0.07%]	± 0.00 [0.13%]	± 0.00 [0.09%]	± 0.00 [0.06%]
alpha_MUON_Eff_Iso_sys	± 0.00 [0.04%]	± 0.00 [0.13%]	± 0.00 [0.08%]	± 0.00 [0.10%]
alpha_JES_Group3	± 0.00 [0.03%]	± 0.00 [0.00%]	± 0.01 [0.41%]	± 0.01 [1.3%]
alpha_MUON_Eff_Iso_stat	± 0.00 [0.02%]	± 0.00 [0.02%]	± 0.00 [0.01%]	± 0.00 [0.01%]
alpha_btag_Extra	± 0.00 [0.02%]	± 0.01 [6.2%]	± 0.00 [0.00%]	± 0.01 [0.81%]
alpha_JET_EtaInt_posEta	± 0.00 [0.02%]	± 0.00 [0.00%]	± 0.00 [0.01%]	± 0.00 [0.00%]
alpha_JET_EtaInt_negEta	± 0.00 [0.01%]	± 0.00 [0.00%]	± 0.01 [0.14%]	± 0.01 [0.96%]
mu_tt_2L	± 0.00 [0.01%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_EG_TrigEff	± 0.00 [0.01%]	± 0.00 [0.05%]	± 0.00 [0.01%]	± 0.00 [0.03%]
alpha_MUON_TTVA_stat	± 0.00 [0.00%]	± 0.00 [0.02%]	± 0.00 [0.01%]	± 0.00 [0.01%]
gamma_stat_tW2L_mt2_mt21000_bin_11	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_btag_ExtraFromCharm	± 0.00 [0.00%]	± 0.00 [0.26%]	± 0.00 [0.03%]	± 0.00 [0.57%]
alpha_MUON_TTVA_sys	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW2L_minmaxmbl_minmaxmbl1000_bin_6	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MUON_Eff_stat_lowpt	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_met1000_bin_8	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_met1000_bin_9	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW2L_CRWZ_cuts_bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_9	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_8	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_5	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_4	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_7	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_6	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_1	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_3	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_dPhimin_4_bin_2	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_SR2L_minjbl1000_bin_9	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW2L_CRttZ_cuts_bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW2L_VRtt_cuts_bin_0	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_singletopSyst	± 0.00 [0.00%]	± 0.71 [500.0%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW2L_minmaxmbl_minmaxmbl1000_bin_3	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
gamma_stat_tW2L_minmaxmbl_minmaxmbl1000_bin_1	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]