

Uncertainty of channel	SR2L_Top2L	SR2L_SingleTop	SR2L_ttV	SR2L_Diboson
Total background expectation	1.18	0.14	2.93	0.51
Total statistical ($\sqrt{N_{\text{exp}}}$)	± 1.09	± 0.38	± 1.71	± 0.71
Total background systematic	± 0.91 [76.80%]	± 0.71 [500.23%]	± 0.77 [26.32%]	± 0.22 [42.50%]
alpha_JER_EffectiveNP_3	± 0.43 [36.8%]	± 0.00 [0.23%]	± 0.03 [1.1%]	± 0.02 [4.0%]
alpha_JER_EffectiveNP_1	± 0.35 [29.8%]	± 0.00 [0.26%]	± 0.06 [2.0%]	± 0.03 [6.5%]
alpha_MatrixElement-Top2L	± 0.30 [25.7%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JER_EffectiveNP_2	± 0.28 [23.8%]	± 0.00 [0.25%]	± 0.09 [3.0%]	± 0.02 [3.0%]
mu_tt_2L	± 0.26 [22.0%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JER_EffectiveNP_5	± 0.26 [21.9%]	± 0.00 [0.18%]	± 0.04 [1.3%]	± 0.07 [12.9%]
alpha_JES_Group1	± 0.24 [20.4%]	± 0.00 [0.18%]	± 0.14 [4.8%]	± 0.01 [2.9%]
alpha_ISR-Top2L	± 0.24 [20.1%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JES_Group2	± 0.24 [20.0%]	± 0.00 [1.9%]	± 0.14 [4.7%]	± 0.02 [4.3%]
alpha_JER_EffectiveNP_7restTerm	± 0.23 [19.9%]	± 0.00 [0.24%]	± 0.03 [1.1%]	± 0.06 [12.7%]
alpha_JER_EffectiveNP_6	± 0.22 [18.9%]	± 0.00 [0.18%]	± 0.01 [0.35%]	± 0.07 [13.0%]
alpha_PartonShower-Top2L	± 0.21 [17.7%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_JET_Flavor_Response	± 0.19 [16.4%]	± 0.00 [1.9%]	± 0.09 [2.9%]	± 0.01 [2.6%]
alpha_JER_EffectiveNP_4	± 0.18 [14.9%]	± 0.00 [0.20%]	± 0.06 [2.2%]	± 0.04 [8.5%]
alpha_JER_DataVsMC	± 0.11 [8.9%]	± 0.00 [0.09%]	± 0.02 [0.80%]	± 0.05 [8.8%]
gamma_stat_SR2L_cuts_bin_0	± 0.10 [8.4%]	± 0.01 [8.4%]	± 0.25 [8.4%]	± 0.04 [8.4%]
alpha_pileup	± 0.04 [3.4%]	± 0.01 [5.1%]	± 0.01 [0.34%]	± 0.02 [3.0%]
alpha_MET_SoftTrk_ResoPara	± 0.03 [2.6%]	± 0.00 [3.4%]	± 0.04 [1.5%]	± 0.00 [0.09%]
alpha_FSR-Top2L	± 0.03 [2.1%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]
alpha_MET_SoftTrk_ResoPerp	± 0.02 [1.6%]	± 0.00 [3.4%]	± 0.01 [0.24%]	± 0.02 [4.6%]
alpha_btag_BT	± 0.02 [1.5%]	± 0.01 [4.2%]	± 0.00 [0.15%]	± 0.00 [0.35%]
alpha_MUON_Trig_sys	± 0.02 [1.3%]	± 0.00 [3.4%]	± 0.04 [1.2%]	± 0.00 [0.91%]
alpha_MET_SoftTrk	± 0.02 [1.3%]	± 0.00 [3.4%]	± 0.00 [0.08%]	± 0.00 [0.03%]
alpha_EG_RESOLUTION_ALL	± 0.02 [1.3%]	± 0.00 [0.00%]	± 0.01 [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%]	± 0.00 [0.15%]	± 0.00 [0.06%]
alpha_MUON_ID	± 0.01 [0.71%]	± 0.00 [3.4%]	± 0.00 [0.07%]	± 0.01 [1.5%]
alpha_EG_Eff	± 0.01 [0.60%]	± 0.00 [2.0%]	± 0.02 [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 [0.25%]
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 [0.08%]	± 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 [0.12%]	± 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 [6.1%]	± 0.00 [0.00%]	± 0.00 [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%]	± 0.00 [0.14%]	± 0.00 [0.95%]
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 [0.56%]
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%]
gamma_stat_SR2L_minjbl1000_bin_9	± 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_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%]
gamma_stat_tW2L_minmaxmbl_minmaxmbl1000_bin_7	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]	± 0.00 [0.00%]