

| Uncertainty of channel | SR2L_Top2L | SR2L_SingleTop |
|---|---------------------|----------------------|
| Total background expectation | 1.17 | 1.00 |
| Total statistical ($\sqrt{N_{\text{exp}}}$) | ± 1.08 | ± 1.00 |
| Total background systematic | ± 0.98 [83.65%] | ± 2.65 [265.17%] |
| alpha_JER_EffectiveNP_3 | ± 0.43 [37.0%] | ± 0.75 [74.7%] |
| alpha_JER_EffectiveNP_1 | ± 0.35 [30.0%] | ± 0.75 [74.7%] |
| alpha_MatrixElement-Top2L | ± 0.30 [26.0%] | ± 0.00 [0.00%] |
| alpha_JER_EffectiveNP_2 | ± 0.28 [24.0%] | ± 0.75 [74.7%] |
| alpha_JER_EffectiveNP_5 | ± 0.26 [22.0%] | ± 0.75 [74.7%] |
| alpha_JES_Group1 | ± 0.24 [20.5%] | ± 0.00 [0.03%] |
| alpha_ISR-Top2L | ± 0.24 [20.4%] | ± 0.00 [0.00%] |
| alpha_JES_Group2 | ± 0.24 [20.2%] | ± 0.00 [0.27%] |
| alpha_JER_EffectiveNP_7restTerm | ± 0.23 [20.0%] | ± 0.75 [74.7%] |
| alpha_JER_EffectiveNP_6 | ± 0.22 [19.0%] | ± 0.86 [85.7%] |
| alpha_PartonShower-Top2L | ± 0.21 [17.9%] | ± 0.00 [0.00%] |
| alpha_JET_Flavor_Response | ± 0.19 [16.5%] | ± 0.00 [0.27%] |
| alpha_JER_EffectiveNP_4 | ± 0.18 [15.0%] | ± 0.75 [74.7%] |
| alpha_JER_DataVsMC | ± 0.11 [9.0%] | ± 0.86 [85.7%] |
| gamma_stat_SR2L_cuts_bin_0 | ± 0.09 [7.3%] | ± 0.07 [7.3%] |
| alpha_pileup | ± 0.04 [3.5%] | ± 0.00 [0.00%] |
| alpha_MET_SoftTrk_ResoPara | ± 0.03 [2.6%] | ± 0.00 [0.00%] |
| alpha_FSR-Top2L | ± 0.03 [2.2%] | ± 0.00 [0.00%] |
| alpha_MET_SoftTrk_ResoPerp | ± 0.02 [1.7%] | ± 0.00 [0.00%] |
| alpha_btag_BT | ± 0.02 [1.5%] | ± 0.00 [0.00%] |
| alpha_MUON_Trig_sys | ± 0.02 [1.4%] | ± 0.00 [0.00%] |
| alpha_MET_SoftTrk | ± 0.02 [1.3%] | ± 0.00 [0.00%] |
| alpha_EG_RESOLUTION_ALL | ± 0.02 [1.3%] | ± 0.00 [0.00%] |
| alpha_MUON_MS | ± 0.01 [1.0%] | ± 0.00 [0.00%] |
| alpha_MUON_SCALE | ± 0.01 [0.78%] | ± 0.00 [0.00%] |
| alpha_JVT | ± 0.01 [0.74%] | ± 0.00 [0.00%] |
| alpha_MUON_ID | ± 0.01 [0.71%] | ± 0.00 [0.00%] |
| alpha_EG_Eff | ± 0.01 [0.60%] | ± 0.00 [0.00%] |
| alpha_btag_LightT | ± 0.00 [0.31%] | ± 0.00 [0.00%] |
| alpha_MUON_Eff_sys | ± 0.00 [0.26%] | ± 0.00 [0.00%] |
| alpha_EG_SCALE_ALL | ± 0.00 [0.23%] | ± 0.00 [0.00%] |
| alpha_MUON_Trig_stat | ± 0.00 [0.10%] | ± 0.00 [0.00%] |
| alpha_EG_Reco | ± 0.00 [0.09%] | ± 0.00 [0.00%] |
| alpha_btag_CT | ± 0.00 [0.07%] | ± 0.00 [0.00%] |
| alpha_EG_Trig | ± 0.00 [0.07%] | ± 0.00 [0.00%] |
| alpha_MUON_Eff_Iso_sys | ± 0.00 [0.04%] | ± 0.00 [0.00%] |
| alpha_JES_Group3 | ± 0.00 [0.03%] | ± 0.00 [0.00%] |
| alpha_MUON_Eff_Iso_stat | ± 0.00 [0.02%] | ± 0.00 [0.00%] |
| alpha_btag_Extra | ± 0.00 [0.02%] | ± 0.00 [0.00%] |
| alpha_JET_EtaInt_posEta | ± 0.00 [0.02%] | ± 0.86 [85.8%] |
| alpha_JET_EtaInt_negEta | ± 0.00 [0.01%] | ± 0.86 [85.8%] |
| mu_tt_2L | ± 0.00 [0.01%] | ± 0.00 [0.00%] |
| alpha_EG_TrigEff | ± 0.00 [0.01%] | ± 0.00 [0.00%] |
| alpha_MUON_TTVA_stat | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| gamma_stat_tW2L_CRtt_cuts_bin_0 | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_JER_DataVsMC_AFII | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_btag_ExtraFromCharm | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_MUON_TTVA_sys | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_JET_EtaInt_highE | ± 0.00 [0.00%] | ± 0.86 [85.8%] |
| mu_ttV | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_muR_muF_ttV | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| mu_dib | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_fJVT | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_MUON_Eff_stat_lowpt | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| Lumi | ± 0.00 [0.00%] | ± 0.02 [1.7%] |
| alpha_fakesSyst | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_MUON_Eff_sys_lowpt | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_MUON_Eff_stat | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| gamma_stat_tW2L_CRWZ_cuts_bin_0 | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_EG_SCALE_AF2 | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_JET_RelNonClos_AFII | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_muR_muF-Diboson | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_MUON_Eff_BadMuon_sys | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| alpha_MUON_Eff_BadMuon_stat | ± 0.00 [0.00%] | ± 0.00 [0.00%] |
| gamma_stat_tW2L_CRttZ_cuts_bin_0 | ± 0.00 [0.00%] | ± 0.00 [0.00%] |