

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