

| Parameter | initial value | errorfitted value and error |
|----------------------------------|---------------|-----------------------------|
| alpha_MUON_Eff_stat | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_EG_TrigEff | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_btag_Extra | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_MUON_MS | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_EG_SCALE_ALL | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_MUON_ID | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_muR_muF-Diboson | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_MUON_Trig_stat | 0.00 ± 1.00 | 0.00 ± 0.99 |
| gamma_stat_tW2L_VR3L_cuts_bin_0 | 1.00 ± 0.03 | 1.00 ± 0.03 |
| alpha_EG_RESOLUTION_ALL | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_MUON_Trig_sys | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_EG_SCALE_AF2 | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_MUON_Eff_BadMuon_stat | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_JVT | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_MatrixElement-Top2L | 0.00 ± 1.00 | 0.00 ± 1.04 |
| alpha_MUON_Eff_Iso_stat | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_EG_Eff | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_JET_Flavor_Response | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_btag_ExtraFromCharm | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_MUON_TTVA_stat | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_MUON_Eff_Iso_sys | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_JER_DataVsMC | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_JER_DataVsMC_AFII | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_fakesSyst | 0.00 ± 1.00 | 0.00 ± 0.99 |
| gamma_stat_tW2L_CRttZ_cuts_bin_0 | 1.00 ± 0.03 | 1.00 ± 0.03 |
| alpha_PartonShower-Top2L | 0.00 ± 1.00 | -0.00 ± 1.08 |
| alpha_JET_EtaInt_negEta | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_btag_BT | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_JER_EffectiveNP_7restTerm | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_JES_Group1 | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_JES_Group3 | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_JES_Group2 | 0.00 ± 1.00 | 0.01 ± 0.99 |
| alpha_singletopSyst | 0.00 ± 1.00 | 0.00 ± 1.00 |
| alpha_fJVT | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_MUON_Eff_BadMuon_sys | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_ISR-Top2L | 0.00 ± 1.00 | 0.01 ± 0.99 |
| alpha_EG_Trig | 0.00 ± 1.00 | 0.00 ± 0.99 |
| Lumi | 1.00 ± 0.02 | 1.00 ± 0.02 |
| alpha_JET_EtaInt_highE | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_FSR-Top2L | 0.00 ± 1.00 | 0.00 ± 0.99 |
| mu_tt_2L | 1.00 ± 0.00 | 1.00 ± 0.13 |
| Pile-up | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_MUON_TTVA_sys | 0.00 ± 1.00 | -0.00 ± 0.99 |
| gamma_stat_tW2L_VRtt_cuts_bin_0 | 1.00 ± 0.01 | 1.00 ± 0.01 |
| mu_dib | 1.00 ± 0.00 | 0.75 ± 0.28 |
| alpha_MUON_Eff_sys | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_muR_muF-ttV | 0.00 ± 1.00 | -0.01 ± 0.95 |
| alpha_MET_SoftTrk_ResoPerp | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_EG_Reco | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_btag_CT | 0.00 ± 1.00 | 0.00 ± 0.99 |
| mu_ttV | 1.00 ± 0.00 | 0.81 ± 0.15 |
| gamma_stat_tW2L_CRtt_cuts_bin_0 | 1.00 ± 0.01 | 1.00 ± 0.01 |
| alpha_MUON_SCALE | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_JET_RelNonClos_AFII | 0.00 ± 1.00 | -0.00 ± 0.99 |
| MC statistics SR2L bin 0 | 1.00 ± 0.08 | 1.00 ± 0.08 |
| alpha_JET_EtaInt_posEta | 0.00 ± 1.00 | -0.00 ± 0.99 |
| alpha_MUON_Eff_sys_lowpt | 0.00 ± 1.00 | 0.00 ± 0.99 |
| alpha_btag_LightT | 0.00 ± 1.00 | 0.00 ± 0.99 |