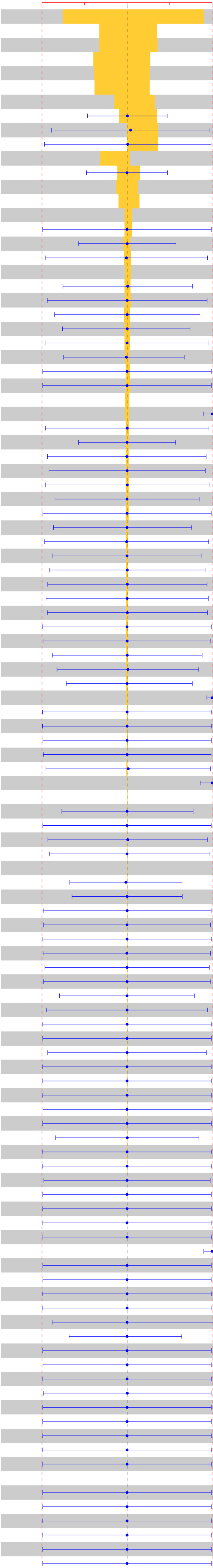


ATLAS Internal

$\Delta\mu$ -0.45 -0.225 0 0.225 0.45

$\mu = \hat{\mu}$ (Asimov)

Asimov breakdown



Statistical uncertainties from data

EXPSYS

FAKES

TOTALSYS

THEORY

Monte Carlo statistical uncertainties

THEORY_WW

alpha_theo_ww_QSF_VBF

alpha_HWW_FakeFactor_mu_EWSUBTR

alpha_ATLAS_JES_BJES

Jet energy scale uncertainty

alpha_theo_ww_CSSKIN_GGF

THEORY_TTBAR

THEORY_WT

Muon experimental uncertainty

alpha_ATLAS_MUON_EFF_RECO_SYS

alpha_theo_ww_CSSKIN_VBF

alpha_HWW_FakeFactor_el_EWSUBTR

Electron experimental uncertainty

alpha_theo_wt_interference_GGF

alpha_ATLAS_LUMI_2018

alpha_theo_ww_scale_VBF

alpha_theo_wt_generator_GGF

alpha_HWW_FakeFactor_el_SAMPLECOMPOSITION

alpha_theo_ww_CKKW_GGF

alpha_ATLAS_EL_EFF_ID_UncorrUncertainty_NP8

alpha_ATLAS_EL_EFF_ID_CorrUncertainty_NP14

Floating normalizations

ATLAS_norm_WW_vbf

alpha_ATLAS_JES_EffectiveNP_Modelling1

alpha_theo_ttbar_generator_VBF

alpha_ATLAS_JES_PU_OffsetMu

alpha_ATLAS_JES_EtaInter_Model

alpha_ATLAS_JES_PU_OffsetNPV

alpha_theo_ww_scale_GGF

alpha_theo_ww_alphas_VBF

alpha_ATLAS_JES_Flavor_Comp

alpha_ATLAS_MUONS_SAGITTA_RESBIAS

alpha_theo_ww_CKKW_VBF

alpha_ATLAS_JES_Flavor_Resp

alpha_theo_wt_shower_VBF

alpha_ATLAS_PRW_DATASF

alpha_theo_wt_generator_VBF

alpha_theo_ww_pdf_VBF

alpha_ATLAS_JES_EtaInter_Stat

alpha_ATLAS_JES_PU_Rho

alpha_theo_ttbar_fsr_VBF

alpha_theo_ttbar_shower_VBF

ATLAS_norm_WW_ggf

alpha_theo_ww_alphas_GGF

alpha_theo_ww_pdf_GGF

alpha_theo_wt_scale_VBF

alpha_theo_wt_interference_VBF

alpha_ATLAS_MUONS_MS

ATLAS_norm_TOP_vbf

Missing ET uncertainty

alpha_theo_wt_shower_GGF

alpha_theo_ttbar_pdf_VBF

alpha_theo_wt_fsr_GGF

alpha_theo_ttbar_scale_VBF

Flavor tagging uncertainty

alpha_theo_ww_QSF_GGF

alpha_ATLAS_FT_EFF_Eigen_B_0

alpha_HWW_FakeFactor_mu_SAMPLECOMPOSITION

alpha_ATLAS_MET_SoftTrk_ResoPara

alpha_theo_wt_pdf_VBF

alpha_HWW_FakeFactor_mu_STAT_combined_3_1

alpha_ATLAS_FT_EFF_Eigen_B_1

alpha_theo_ttbar_isr_VBF

alpha_theo_ttbar_shower_GGF

alpha_ATLAS_MET_SoftTrk_ResoPerp

alpha_ATLAS_EL_EFF_ID_CorrUncertainty_NP12

alpha_ATLAS_EL_EFF_ID_CorrUncertainty_NP13

alpha_ATLAS_MET_SoftTrk_Scale

alpha_ATLAS_MUONS_SCALE

alpha_ATLAS_EL_EFF_ID_CorrUncertainty_NP10

alpha_ATLAS_EL_EFF_ID_CorrUncertainty_NP11

alpha_ATLAS_MUONS_ID

alpha_theo_wt_scale_GGF

alpha_theo_ttbar_fsr_GGF

alpha_ATLAS_EL_EFF_ID_CorrUncertainty_NP9

alpha_theo_wt_pdf_GGF

alpha_ATLAS_FT_EFF_Eigen_B_2

alpha_theo_wt_isr_VBF

alpha_ATLAS_EL_EFF_Iso_TOTAL_1NPCOR_PLUS_UNCOR

alpha_ATLAS_EG_RESOLUTION_ALL

alpha_HWW_FakeFactor_el_STAT_combined_3_1

ATLAS_norm_TOP_ggf

alpha_ATLAS_EG_SCALE_ALL

alpha_theo_wt_fsr_VBF

alpha_ATLAS_EG_SCALE_AF2

alpha_theo_ttbar_pdf_GGF

alpha_theo_ttbar_scale_GGF

alpha_theo_ttbar_generator_GGF

alpha_ATLAS_MUON_EFF_ISO_STAT

alpha_HWW_FakeFactor_mu_STAT_combined_3_2

alpha_ATLAS_JES_EffectiveNP_Statistical2

alpha_ATLAS_JES_PU_PtTerm

alpha_ATLAS_FT_EFF_Eigen_Light_0

alpha_ATLAS_EL_EFF_ID_CorrUncertainty_NP15

alpha_ATLAS_MUON_EFF_TrigSystUncertainty

alpha_ATLAS_MUON_EFF_TTVA_SYS

alpha_ATLAS_EL_EFF_ID_UncorrUncertainty_NP15

Jet energy resolution uncertainty

alpha_ATLAS_EL_EFF_ID_UncorrUncertainty_NP7

alpha_ATLAS_EL_EFF_ID_UncorrUncertainty_NP6

alpha_ATLAS_JES_EtaInter_NonClosure_negEta

alpha_ATLAS_JVT

alpha_ATLAS_FT_EFF_extrapolation_from_charm

alpha_ATLAS_FT_EFF_Eigen_C_0

$\frac{\theta - \theta_0}{\Delta\theta_0}$

-1 -0.75 -0.5 -0.25 0 0.25 0.5 0.75 1