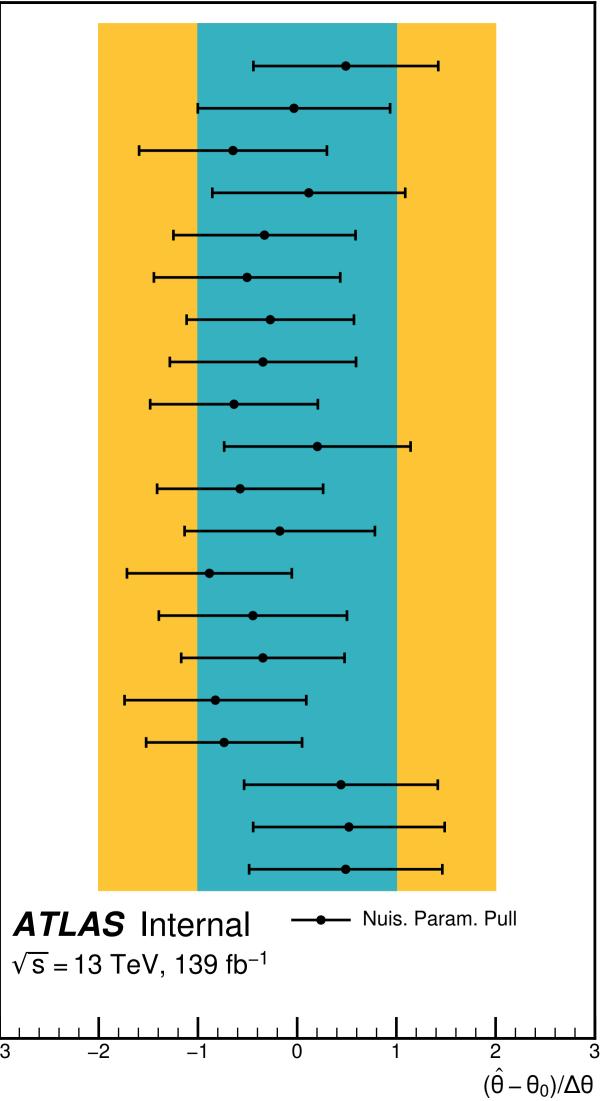
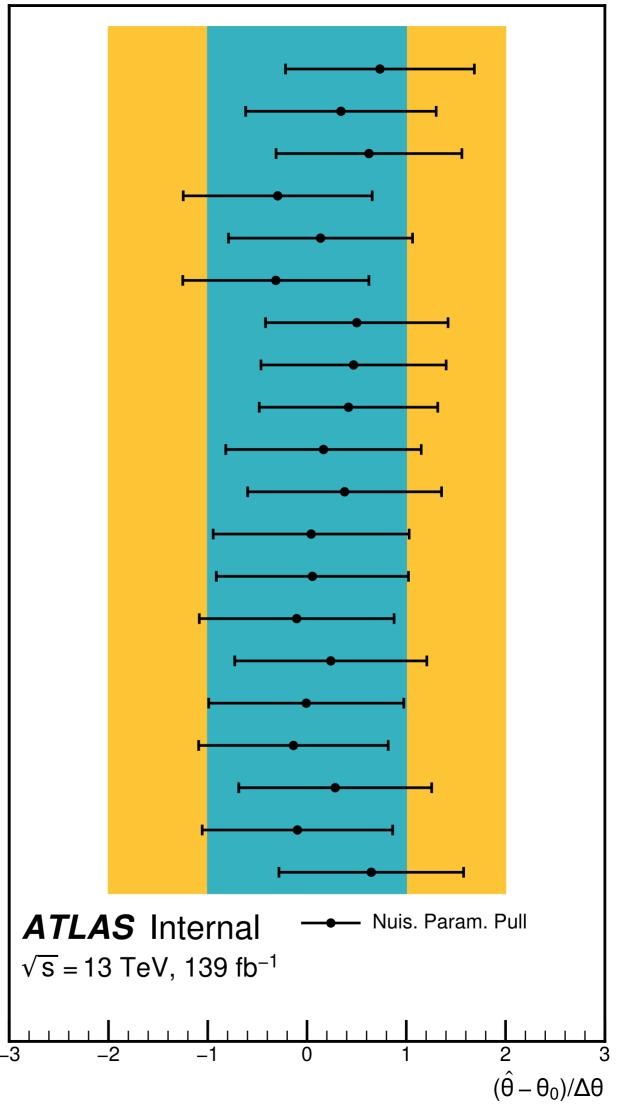
alpha\_ATLAS\_LUMI\_Run2 alpha CR12 shape E ggf 16 dEta 1 Xhh 1 alpha\_CR12\_shape\_E\_ggf\_16\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_E\_ggf\_16\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_E\_ggf\_16\_dEta\_2\_Xhh\_2 alpha CR12 shape E ggf 16 dEta 3 Xhh 1 alpha\_CR12\_shape\_E\_ggf\_16\_dEta\_3\_Xhh\_2 alpha\_CR12\_shape\_E\_ggf\_17\_dEta\_1\_Xhh\_1 alpha\_CR12\_shape\_E\_ggf\_17\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_E\_ggf\_17\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_E\_ggf\_17\_dEta\_2\_Xhh\_2 alpha\_CR12\_shape\_E\_ggf\_17\_dEta\_3\_Xhh\_1 alpha\_CR12\_shape\_E\_ggf\_17\_dEta\_3\_Xhh\_2 alpha\_CR12\_shape\_E\_ggf\_18\_dEta\_1\_Xhh\_1 alpha\_CR12\_shape\_E\_ggf\_18\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_E\_ggf\_18\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_E\_ggf\_18\_dEta\_2\_Xhh\_2 alpha CR12 shape E ggf 18 dEta 3 Xhh 1 alpha\_CR12\_shape\_E\_ggf\_18\_dEta\_3\_Xhh\_2 alpha\_CR12\_shape\_N\_ggf\_16\_dEta\_1\_Xhh\_1 Nuis. Param. Pull ATLAS Internal  $\sqrt{s} = 13 \text{ TeV}, 139 \text{ fb}^{-1}$  $(\hat{\theta} - \theta_0)/\Delta\theta$  alpha\_CR12\_shape\_N\_ggf\_16\_dEta\_1\_Xhh\_2 alpha CR12 shape N ggf 16 dEta 2 Xhh 1 alpha\_CR12\_shape\_N\_ggf\_16\_dEta\_2\_Xhh\_2 alpha\_CR12\_shape\_N\_ggf\_16\_dEta\_3\_Xhh\_1 alpha\_CR12\_shape\_N\_ggf\_16\_dEta\_3\_Xhh\_2 alpha CR12 shape N ggf 17 dEta 1 Xhh 1 alpha\_CR12\_shape\_N\_ggf\_17\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_N\_ggf\_17\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_N\_ggf\_17\_dEta\_2\_Xhh\_2 alpha CR12 shape N ggf 17 dEta 3 Xhh 1 alpha\_CR12\_shape\_N\_ggf\_17\_dEta\_3\_Xhh\_2 alpha\_CR12\_shape\_N\_ggf\_18\_dEta\_1\_Xhh\_1 alpha\_CR12\_shape\_N\_ggf\_18\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_N\_ggf\_18\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_N\_ggf\_18\_dEta\_2\_Xhh\_2 alpha\_CR12\_shape\_N\_ggf\_18\_dEta\_3\_Xhh\_1 alpha\_CR12\_shape\_N\_ggf\_18\_dEta\_3\_Xhh\_2 alpha CR12 shape S ggf 16 dEta 1 Xhh 1 alpha\_CR12\_shape\_S\_ggf\_16\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_S\_ggf\_16\_dEta\_2\_Xhh\_1



alpha\_CR12\_shape\_S\_ggf\_16\_dEta\_2\_Xhh\_2 alpha CR12 shape S ggf 16 dEta 3 Xhh 1 alpha\_CR12\_shape\_S\_ggf\_16\_dEta\_3\_Xhh\_2 alpha\_CR12\_shape\_S\_ggf\_17\_dEta\_1\_Xhh\_1 alpha\_CR12\_shape\_S\_ggf\_17\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_S\_ggf\_17\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_S\_ggf\_17\_dEta\_2\_Xhh\_2 alpha\_CR12\_shape\_S\_ggf\_17\_dEta\_3\_Xhh\_1 alpha\_CR12\_shape\_S\_ggf\_17\_dEta\_3\_Xhh\_2 alpha\_CR12\_shape\_S\_ggf\_18\_dEta\_1\_Xhh\_1 alpha\_CR12\_shape\_S\_ggf\_18\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_S\_ggf\_18\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_S\_ggf\_18\_dEta\_2\_Xhh\_2 alpha\_CR12\_shape\_S\_ggf\_18\_dEta\_3\_Xhh\_1 alpha\_CR12\_shape\_S\_ggf\_18\_dEta\_3\_Xhh\_2 alpha\_CR12\_shape\_W\_ggf\_16\_dEta\_1\_Xhh\_1 alpha\_CR12\_shape\_W\_ggf\_16\_dEta\_1\_Xhh\_2 alpha CR12 shape W ggf 16 dEta 2 Xhh 1 alpha\_CR12\_shape\_W\_ggf\_16\_dEta\_2\_Xhh\_2 alpha\_CR12\_shape\_W\_ggf\_16\_dEta\_3\_Xhh\_1



alpha\_CR12\_shape\_W\_ggf\_16\_dEta\_3\_Xhh\_2 alpha CR12 shape W ggf 17 dEta 1 Xhh 1 alpha\_CR12\_shape\_W\_ggf\_17\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_W\_ggf\_17\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_W\_ggf\_17\_dEta\_2\_Xhh\_2 alpha\_CR12\_shape\_W\_ggf\_17\_dEta\_3\_Xhh\_1 alpha\_CR12\_shape\_W\_ggf\_17\_dEta\_3\_Xhh\_2 alpha\_CR12\_shape\_W\_ggf\_18\_dEta\_1\_Xhh\_1 alpha\_CR12\_shape\_W\_ggf\_18\_dEta\_1\_Xhh\_2 alpha\_CR12\_shape\_W\_ggf\_18\_dEta\_2\_Xhh\_1 alpha\_CR12\_shape\_W\_ggf\_18\_dEta\_2\_Xhh\_2 alpha\_CR12\_shape\_W\_ggf\_18\_dEta\_3\_Xhh\_1 alpha\_CR12\_shape\_W\_ggf\_18\_dEta\_3\_Xhh\_2 alpha\_FT\_EFF\_Eigen\_B\_0 alpha\_FT\_EFF\_Eigen\_B\_1 alpha\_FT\_EFF\_Eigen\_B\_2 alpha\_FT\_EFF\_Eigen\_C\_0 alpha FT EFF Eigen C 1 alpha FT EFF Eigen C 2 alpha\_FT\_EFF\_Eigen\_C\_3 ATLAS Internal Nuis. Param. Pull  $\sqrt{s}$  = 13 TeV, 139 fb<sup>-1</sup>

 $(\hat{\theta} - \theta_0)/\Delta\theta$ 

alpha\_FT\_EFF\_Eigen\_Light\_0 alpha FT EFF Eigen Light 1 alpha\_FT\_EFF\_Eigen\_Light\_2 alpha\_FT\_EFF\_Eigen\_Light\_3 alpha\_FT\_EFF\_extrapolation alpha FT EFF extrapolation from charm alpha\_JET\_BJES\_Response alpha\_JET\_EffectiveNP\_Detector1 alpha\_JET\_EffectiveNP\_Detector2 alpha JET EffectiveNP Mixed1 alpha JET EffectiveNP Mixed2 alpha\_JET\_EffectiveNP\_Mixed3 alpha\_JET\_EffectiveNP\_Modelling1 alpha JET EffectiveNP Modelling2 alpha\_JET\_EffectiveNP\_Modelling3 alpha\_JET\_EffectiveNP\_Modelling4 alpha\_JET\_EffectiveNP\_Statistical1 alpha JET EffectiveNP Statistical2 alpha JET EffectiveNP Statistical3 alpha\_JET\_EffectiveNP\_Statistical4 ATLAS Internal Nuis. Param. Pull  $\sqrt{s} = 13 \text{ TeV}, 139 \text{ fb}^{-1}$  $(\hat{\theta} - \theta_0)/\Delta\theta$ 

