

Pre-fit impact on  $\mu$ :

$\square \theta = \hat{\theta} + \Delta\theta$   $\square \theta = \hat{\theta} - \Delta\theta$

Post-fit impact on  $\mu$ :

$\blacksquare \theta = \hat{\theta} + \Delta\hat{\theta}$   $\blacksquare \theta = \hat{\theta} - \Delta\hat{\theta}$

—●— Nuis. Param. Pull

$t\bar{t} + \geq 1$  c norm.

$t\bar{t} + c$  PS 4j

eigenvars\_C\_2

$t\bar{t} + b$  PS 4j

$\gamma$  (4j, 3b bin 9)

$t\bar{t} + c$  PS 5j

$t\bar{t} + b$  PS 5j

$t\bar{t} + \geq 1$  b norm.

eigenvars\_B\_0

$t\bar{t} + b$  Gen 4j

$t\bar{t} + b$  FSR

$t\bar{t} + \text{light}$  FSR

$t\bar{t} + c$  PS 6j

eigenvars\_C\_4

$t\bar{t} + b$   $\mu_{F_R}$

$\Delta\mu$   
-0.1 -0.05 0 0.05 0.1

**ATLAS** Internal

$\sqrt{s} = 13$  TeV,  $139 \text{ fb}^{-1}$

