

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

eigenvars\_Light\_0

eigenvars\_C\_0

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

$t\bar{t}+b$  4FS 5j

eigenvars\_Light\_1

eigenvars\_C\_1

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

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

$t\bar{t}+b$  FSR

V+jets norm.

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

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

eigenvars\_C\_2

$t\bar{t}+b$  4FS 6j

$t\bar{t}+\text{light}$  PS 4j

A. Salvador PhD Thesis

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

