

1

Tight lepton selection efficiency



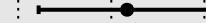
2

Muon fake rate, normalization



3

2016 luminosity calibration



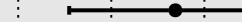
4

tH theoretical uncertainty (scale)



5

Jet energy scale



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