

Events / 0.2

**ATLAS**

Internal

 $\sqrt{s} = 13 \text{ TeV}, 140 \text{ fb}^{-1}$ 

Single lepton

CR  $t\bar{t}\gamma$  decay

Post-Fit

● Data

■  $t\bar{t}\gamma$  decay■ e-fake  $\gamma$ 

■ Lep. fakes

■  $t\bar{t}\gamma$  production■ h-fake  $\gamma$ ■ Other  $\gamma$ 

/// Uncertainty

5000

4000

3000

2000

1000

0

Data / Pred.

1.25

1

0.75

0.5

0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 2.2

 $|\eta(\gamma)|$ 