

Events / 15 GeV

500

400

300

200

100

0

**ATLAS**

Internal

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

Single lepton

SR  $t\bar{t}\gamma$  production

Pre-Fit

 $t\bar{t}\gamma$  productionh-fake  $\gamma$ Other  $\gamma$ 

Uncertainty

 $t\bar{t}\gamma$  decaye-fake  $\gamma$ 

Lep. fakes

Data / Pred.

1.25

1

0.75

0.5

50

100

150

200

250

300

350

400

450

500

 $p_T(\gamma) [\text{GeV}]$ 