

$e\mu, \geq 2 \text{ jets}, \geq 1 \text{ btag}, \geq 1 \gamma$ $\sqrt{s} = 8 \text{ TeV},$ $\mathcal{L}_{\text{int}} = 19.7 \text{ fb}^{-1}$

Number of Events

CMS Preliminary

8000

7000

6000

5000

4000

3000

2000

1000

0

0

0.005

0.01

0.015

0.02

0.025

0.03

 $\sigma_{\text{in}}(\text{barrel})$

- + 2012 data
- $t\bar{t} + \gamma$
- $t\bar{t} 0l$
- $t\bar{t} 1l$
- $t\bar{t} 2l$
- Single Top
- Z+Jets
- $Z + \gamma$
- WW/ZZ/WZ
- W+Jets
- $W + \gamma$
- QCD