

$e^+e^-, \geq 2 \text{ jets}, \geq 1 \text{ btag} \geq 1 \gamma$ $\sqrt{s} = 8 \text{ TeV},$ $\text{Ldt} = 19.7 \text{ fb}^{-1}$

Number of Events

CMS Preliminary

40000

35000

30000

25000

20000

15000

10000

5000

0

0.5

1

1.5

2

2.5

3

3.5

4

4.5

5

 $\Delta R(\gamma, e)$

- + 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