

$e^+e^-$ ,  $\geq 2$  jets,  $\geq 1$  btag  $\geq 1 \gamma$

$\sqrt{s} = 8 \text{ TeV}$ ,

$\int \mathcal{L} dt = 19.7 \text{ fb}^{-1}$

**CMS Preliminary**

Number of Events

25000

20000

15000

10000

5000

0

- + 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

data/MC

2

1.5

1

0.5

0

Random Cone Iso<sub>Ch.had</sub> (barrel)

0

2

4

6

8

10

12

14

16

18

20