

$e\mu, \geq 2 \text{ jets}, \geq 1 \text{ btag}, \geq 1 \gamma$

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

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

**CMS Preliminary**

Number of Events

40000  
35000  
30000  
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

PFChargedHadronIso(barrel)

0

2

4

6

8

10

12

14

16

18

20

22