

Number of Events

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

$\sqrt{s} = 8$  TeV,

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

**CMS Preliminary**

- + 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

70  
60  
50  
40  
30  
20  
10  
0

0

2

4

6

8

10

12

14

16

18

20

PFNeutralHadronIso(barrel)