

$\mu^+\mu^-, \geq 2 \text{ jets}, \geq 1 \text{ btag}, \geq 1 \gamma$ $\sqrt{s} = 8 \text{ TeV},$ $\int \mathcal{L} dt = 19.7 \text{ fb}^{-1}$ **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+ γ
- WW/ZZ/WZ
- W+Jets
- W+ γ
- QCD

data/MC

2

1.5

1

0.5

0

Random Cone Iso $_{\gamma}$

0

2

4

6

8

10

12

14

16

18

20

22