

$e\mu, 3 \geq 2 \text{ jets}, \geq 1 \text{ btag}, \geq 1 \gamma$

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

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

**CMS Preliminary**

- 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

Number of Events

$\times 10$

100

80

60

40

20

0

0

2

1.5

1

0.5

0

0

5

10

15

20

Random Cone Iso<sub>Ch.had</sub>

Number of Events

data/MC

