

$e\mu, \geq 2 \text{ jets}, \geq 1 \text{ btag}, \geq 1 \gamma$  $\sqrt{s} = 8 \text{ TeV},$  $\text{Ldt} = 19.7 \text{ fb}^{-1}$ 

Number of Events

**CMS Preliminary**

30000

25000

20000

15000

10000

5000

0

0

2

4

6

8

10

12

14

16

18

20

PFChargedHadronIso(barrel)

- + 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