

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

$\sqrt{s}=8 \text{ TeV}, \int \mathcal{L} dt=19.7 \text{ fb}^{-1}$

CMS Preliminary

- + 2012 data
- $t\bar{t}+\gamma$
- $t\bar{t} \text{ 0I}$
- $t\bar{t} \text{ 1I}$
- $t\bar{t} \text{ 2I}$
- Single Top
- Z+Jets
- WW/ZZ/WZ
- W+Jets
- QCD

Number of Events

45000
40000
35000
30000
25000
20000
15000
10000
5000
0

data/MC

2
1.5
1
0.5
0

SCFR Charged Hadron Iso.

0 2 4 6 8 10 12 14 16 18 20 22

