

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

Number of Events

CMS Preliminary

30000

25000

20000

15000

10000

5000

0

-5

0

5

10

15

20

Random Cone Iso $_{\gamma}$

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

23000

22000

21000

20000

19000

18000

17000

16000

15000

14000

13000

12000

11000

10000

9000

8000

7000

6000

5000

4000

3000

2000

1000

0

9000

8000

7000

6000

5000

4000

3000

2000

1000

0

0

0

8000

7000

6000

5000

4000

3000

2000

1000

0

0

0

0

7000

6000

5000

4000

3000

2000

1000

0

0

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0

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6000

5000

4000

3000

2000

1000

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0

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0

0

5000

4000

3000

2000

1000

0

0

0

0

0

0

0

4000

3000

2000

1000

0

0

0

0

0

0

0

0

3000

2000

1000

0

0

0

0

0

0

0

0

0