

Lepton + 4 jets + 4 b-tags

CMS Preliminary $\sqrt{s} = 8 \text{ TeV}$, $L = 19.4 \text{ fb}^{-1}$

Events

50

40

30

20

10

2

$t\bar{t} + l\bar{l}$ (73.8)
 $t\bar{t} + b\bar{b}$ (13.1)
EWK (2.4)
 $t\bar{t}H125$ (1.8 \times 30)

$t\bar{t} + c\bar{c}$ (19.2)
single t (3.4)
Data (122)

$t\bar{t} + b$ (21.1)
 $t\bar{t} + W,Z$ (1.1)
Sum MC (134.0)

Data/MC

2

1

0

fourth highest CSV output (b-tags)

0.7

0.75

0.8

0.85

0.9

0.95

1