

$\tau^{1\text{prong}} + \text{jets}$ $\geq 2 \text{ jets}$ $\geq 1 \text{ b-tags}$ **ATLAS** Internal $\chi^2/\text{ndf} = 1.6$

KS = 0.3901

 $\int \mathcal{L} \, dt = 20.3 \text{ fb}^{-1}$
 $\sqrt{s} = 8 \text{ TeV}$

- $t\bar{t} \rightarrow e, \mu, \tau$ (2427.9 evts)
- Singletop (134.3 evts)
- Wjets (0.6 evts)
- Zjets (206.6 evts)
- Diboson (8.8 evts)
- Fakes (1596.8 evts)
- Data (4356 evts)

 10^3 10^2

10

1

Data/Pred.

● data stat. unc.

■ MC stat. unc.

1.6

1.4

1.2

1.0

0.8

0.6

0.4

0

50

100

150

200

250

300

350

400

 $M(\mu, \tau) [\text{GeV}]$