

CMS Preliminary

19.7 fb<sup>-1</sup> (8TeV)

$$0.0 \leq y_b < 1.0$$

$$0.0 \leq y^* < 1.0$$

AbsoluteMPFBias  
AbsoluteScale  
AbsoluteStat

Uncertainty

1.10  
1.05  
1.00  
0.95  
0.90

200

500

10<sup>3</sup> $p_{T,avg}$  (GeV)