

CMS Simulation 2012,  $\sqrt{s} = 8$  TeV

$13 < N_{\text{vtx}} < 17$

reconstructed  $\tau$  decay mode

$\pi\pi\pi$

**0.01**

**0.41**

$\pi\pi^0\pi$

**0.14**

**0.70**

**0.42**

$\pi$

**0.86**

**0.29**

**0.17**

$\pi$

$\pi\pi^0\pi$

$\pi\pi\pi$

generated  $\tau$  decay mode