

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

$23 < N_{\text{vtx}} < 27$

reconstructed  $\tau$  decay mode

$\pi\pi\pi$

**0.01**

**0.01**

**0.94**

$\pi\pi^0\pi$

**0.09**

**0.82**

**0.04**

$\pi$

**0.90**

**0.17**

**0.02**

$\pi$

$\pi\pi^0\pi$

$\pi\pi\pi$

generated  $\tau$  decay mode