

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

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

reconstructed  $\tau$  decay mode

$\pi\pi\pi$

**0.00**

**0.00**

**0.33**

$\pi\pi^0\text{S}$

**0.16**

**0.72**

**0.51**

$\pi$

**0.84**

**0.28**

**0.15**

$\pi$

$\pi\pi^0\text{S}$

$\pi\pi\pi$

generated  $\tau$  decay mode