

Events / 5 GeV

35.9 fb<sup>-1</sup> (13 TeV)

**CMS**

- Signal model
- Bkg. model
- - - Bkg. uncertainty
- Misidentified  $\tau$
- ZZ  $\rightarrow$  4l
- Observed

$\mu\mu + \mu\tau_h$

$$B(h \rightarrow aa \rightarrow 2\mu 2\tau) = 0.01\%$$

$$B(a \rightarrow 2\mu) / B(a \rightarrow 2\tau) = m_\mu^2 / m_\tau^2$$

