$\tau \rightarrow a (2B \times B^2 (a \rightarrow \tau \tau))$

$95\%$ CL limit on $\sigma_{h} / \sigma_{SM}$ vs $m_a$ (GeV)

- **Observed**
- **Expected**
- **\(\pm 1\sigma\) Expected**
- **\(\pm 2\sigma\) Expected**

Low and high $m_T$ combination

19.7 fb$^{-1}$ (8 TeV)

CMS

$\sigma_{h} \times B(h \rightarrow aa) \times B^2 (a \rightarrow \tau \tau)$