## $\sqrt{s} = 7 \text{ TeV}, L = 5.1 \text{ fb}^{-1}$ **CMS Preliminary** $\sqrt{s} = 8 \text{ TeV}, L = 19.7 \text{ fb}^{-1}$ $\sigma/\sigma_{SM}$ 3.5 Observed $\begin{array}{c} \longrightarrow \quad X \rightarrow \gamma \gamma \ 2_{m}^{+}(50\%gg,50\%qq)_{..} \\ \longrightarrow \quad X \rightarrow \gamma \gamma \ 2_{m}^{+}(100\%gg) \end{array}$ $\begin{array}{c} X \rightarrow \gamma \gamma \ 2_{m}^{+}(100\%qq) \\ X \rightarrow \gamma \gamma \ 0^{+} \end{array}$ 2.5 2 1.5 0.5 0 -0.5<sup>L</sup> 0.2 0.3 0.4 0.5 0.6 0.7 8.0 0.9 |cosθ\*|