

19.7 fb⁻¹ (8 TeV)95% CL limit on $\sigma \times \text{Br}$ [pb]**CMS** $pp \rightarrow \Theta^0 \Theta^0 \rightarrow (Zg)(b\bar{b})$, with $m_G = 5 m_{\Theta^0}$

- - - Expected limit

█ Expected $\pm 1\sigma$ █ Expected $\pm 2\sigma$

—●— Observed limit

█ Color-Octet (with PDF uncertainty)

 $B(\Theta^0 \rightarrow b\bar{b}) = 0.5$ $B(\Theta^0 \rightarrow Zg) + B(\Theta^0 \rightarrow \gamma g) = 0.5$

10

1

10⁻¹10⁻²10⁻³10⁻⁴

200

300

400

500

600

700

800

900

 m_{Θ^0} [GeV]