

19.7 fb<sup>-1</sup> (8 TeV)95% CL limit on  $\sigma \times \text{Br}$  [pb]**CMS** $pp \rightarrow \Theta^0 \Theta^0 \rightarrow (Zg)(b\bar{b})$ , with  $m_G = 2.3 m_{\Theta^0}$ 

- - - 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<sup>-1</sup>10<sup>-2</sup>10<sup>-3</sup>10<sup>-4</sup>

200

300

400

500

600

700

800

900

 $m_{\Theta^0}$  [GeV]