

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

**CMS**  
*Preliminary*

95% CL limits

$b^* \rightarrow b\gamma$

—●— Observed

⋯ Expected

█ Expected  $\pm 1\sigma$

█ Expected  $\pm 2\sigma$

- - - Excited b-quark ( $b\gamma \rightarrow b^*$ ,  $f=0.1$ )

$\sigma \times B$  [pb]

1

10<sup>-1</sup>

10<sup>-2</sup>

10<sup>-3</sup>

10<sup>-4</sup>

10<sup>-5</sup>

1

2

3

4

5

6

7

Resonance mass [TeV]

