

Events / 50 GeV

CMS*Preliminary* $pp \rightarrow X \rightarrow HH \rightarrow b\bar{b}b\bar{b}$

4 b tag category

68% CL

95% CL

• Data

— Background model

— Alternative background model

- - - $G_{\text{Bulk}}, \sigma(M_X=1.6 \text{ TeV}) = 20 \text{ fb}$

10

1

1000 1200 1400 1600 1800 2000 2200 2400 2600

 M_{jj}^{red} (GeV)