

GGM: $pp \rightarrow (\tilde{g}\tilde{g})/(\tilde{q}\tilde{q}) \rightarrow (\tilde{\chi}_1^0 \rightarrow \tilde{G}\gamma) (\tilde{\chi}_1^0 \rightarrow \tilde{G}\gamma) + \text{jet(s)}$

CMS Simulation (8 TeV)

N Events

Razor $\gamma\gamma + \geq 1$ jet

— GGM $m_{\tilde{q}} = 1500$ GeV, $m_{\tilde{g}} = 1820$ GeV

— GGM $m_{\tilde{q}} = 1700$ GeV, $m_{\tilde{g}} = 1520$ GeV

— GGM $m_{\tilde{q}} = 1900$ GeV, $m_{\tilde{g}} = 1320$ GeV

— Background Model

10^2

10

1

10^{-1}

10^{-2}

1

1.5

2

2.5

3

3.5

4

4.5

5

M_R (TeV)

