

Cross section [pb]

$pp \rightarrow \tilde{g} \tilde{g}, \tilde{g} \rightarrow q \bar{q} \tilde{\chi}_2^0, \tilde{\chi}_2^0 \rightarrow H(Z) \tilde{\chi}_1^0$

$m_{\tilde{g}} - m_{\tilde{\chi}_2^0} = 50 \text{ GeV}, m_{\tilde{\chi}_1^0} = 1 \text{ GeV}$

--- NLO+NLL $\pm \sigma_{\text{theory}}$

95% CL Upper Limit BR($\tilde{\chi}_2^0 \rightarrow H \tilde{\chi}_1^0$) = 100%

— Observed
 - - - Expected $\pm \sigma_{\text{exp}}$

95% CL Upper Limit BR($\tilde{\chi}_2^0 \rightarrow H \tilde{\chi}_1^0$) = 50%, BR($\tilde{\chi}_2^0 \rightarrow Z \tilde{\chi}_1^0$) = 50%

— Observed
 - - - Expected $\pm \sigma_{\text{exp}}$

10⁻¹
 10⁻²
 10⁻³
 10⁻⁴

800 1000 1200 1400 1600 1800 2000 2200

M _{\tilde{g}} [GeV]

