

CMS, $\sqrt{s} = 7$ TeV, $L = 4.73$ fb $^{-1}$

$pp \rightarrow \tilde{g}\tilde{g}, \tilde{g} \rightarrow q\bar{q} + Z + \tilde{\chi}^0; m(\tilde{q}) \gg m(\tilde{g})$

$m(\tilde{\chi}_2^0) = 0.5 m(\tilde{\chi}^0) + 0.5 m(\tilde{g})$

$M_{T2}b$ Analysis

— obs. limit ($\pm 1\sigma$ theo.)

- - exp. limit ($\pm 1\sigma$ expt.)

LSP mass [GeV]

1200
1000
800
600
400
200

400 600 800 1000 1200

gluino mass [GeV]

10
1
 10^{-1}
 10^{-2}
 10^{-3}
95% CL upper limit on σ [pb] (CL_s)

