

# $\tilde{g}\text{-}\tilde{g}$ production, $\tilde{g}\rightarrow t\bar{t}\tilde{\chi}_1^0$

**CMS Preliminary**

$\sqrt{s} = 8\text{ TeV}$   
**SUSY 2013**

— Observed  
⋯ Observed  $-1\sigma_{\text{theory}}^{\text{SUSY}}$   
- - - Expected

— SUS-12-024 0-lep ( $\cancel{E}_T+H_T$ )  $19.4\text{ fb}^{-1}$   
— SUS-13-004 0+1-lep (razor)  $19.3\text{ fb}^{-1}$   
— SUS-13-007 1-lep ( $n_{\text{jets}} \geq 6$ )  $19.4\text{ fb}^{-1}$   
— SUS-13-013 2-lep (SS+b)  $19.5\text{ fb}^{-1}$   
— SUS-13-008 3-lep (3l+b)  $19.5\text{ fb}^{-1}$

$m(\text{gluino}) - m(\text{LSP}) = m(W) + m(\text{top})$   
 $m(\text{gluino}) - m(\text{LSP}) = 2 m(\text{top})$

