

**Overview of SUSY results: GMSB / GGM**
 $36 \text{ fb}^{-1}$  (13 TeV)

**pp  $\rightarrow \tilde{g}\tilde{g}$** 
 $\tilde{g} \rightarrow \text{qq}\tilde{\chi}_1^0 \rightarrow \text{qq}\gamma\tilde{G}$   $\gamma + \text{ME}_{\mathbf{T}}$ : arXiv:1711.08008 (max. exclusion)

 $\gamma + \text{H}_{\mathbf{T}}$ : arXiv:1707.06193 (max. exclusion)

 $\tilde{g} \rightarrow (\text{qq}\tilde{\chi}_1^0 \rightarrow \text{qq}\gamma\tilde{G}/\text{qq}\tilde{\chi}_1^\pm \rightarrow \text{qqW}\tilde{G})$   $\gamma + \text{ME}_{\mathbf{T}}$ : arXiv:1711.08008 (max. exclusion)

 $\gamma + \text{H}_{\mathbf{T}}$ : arXiv:1707.06193 (max. exclusion)

 $\gamma + \ell + \text{ME}_{\mathbf{T}}$ : SUS-17-012 (max. exclusion)

 $\tilde{g} \rightarrow \text{qq}\tilde{\chi}_1^0, \tilde{\chi}_1^0 \rightarrow \mathbf{Z}\tilde{G}$  **2 $\ell$  opposite-sign**: arXiv:1709.08908 (max. exclusion)

**pp  $\rightarrow \tilde{q}\tilde{q}$** 
 $\tilde{q} \rightarrow \text{q}\tilde{\chi}_1^0 \rightarrow \text{q}\gamma\tilde{G}$   $\gamma + \text{ME}_{\mathbf{T}}$ : arXiv:1711.08008 (max. exclusion)

 $\gamma + \text{H}_{\mathbf{T}}$ : arXiv:1707.06193 (max. exclusion)

 $\tilde{q} \rightarrow (\text{q}\tilde{\chi}_1^0 \rightarrow \text{q}\gamma\tilde{G}/\text{q}\tilde{\chi}_1^\pm \rightarrow \text{qW}\tilde{G})$   $\gamma + \text{ME}_{\mathbf{T}}$ : arXiv:1711.08008 (max. exclusion)

 $\gamma + \text{H}_{\mathbf{T}}$ : arXiv:1707.06193 (max. exclusion)

 $\gamma + \ell + \text{ME}_{\mathbf{T}}$ : SUS-17-012 (max. exclusion)

**pp  $\rightarrow \tilde{\chi}_1^0\tilde{\chi}_1^\pm, \tilde{\chi}_1^\pm\tilde{\chi}_1^\pm$** 
 $\text{pp} \rightarrow \tilde{\chi}_1^0\tilde{\chi}_1^\pm, \tilde{\chi}_1^0 \rightarrow \gamma\tilde{G}, \tilde{\chi}_1^\pm \rightarrow \text{W}\tilde{G}$   $\gamma + \text{ME}_{\mathbf{T}}$ : arXiv:1711.08008

 $\gamma + \ell + \text{ME}_{\mathbf{T}}$ : SUS-17-012 (max. exclusion)

 $\text{pp} \rightarrow \tilde{\chi}_1^0\tilde{\chi}_1^\pm, \tilde{\chi}_1^\pm\tilde{\chi}_1^\pm \rightarrow 2 \times [(\mathbf{Z}/\text{h}/\gamma)\tilde{G}] + \mathbf{X}_{\text{soft}}$   $\gamma + \text{ME}_{\mathbf{T}}$ : arXiv:1711.08008 BF(Z:H: $\gamma$ ) = 1:1:2

**pp  $\rightarrow (\tilde{\chi}_1^\pm, \tilde{\chi}_2^0, \tilde{\chi}_1^0)(\tilde{\chi}_1^\pm, \tilde{\chi}_2^0, \tilde{\chi}_1^0)$** 
 $\text{pp} \rightarrow \tilde{\chi}_i^{0,\pm}\tilde{\chi}_j^{0,\pm} \rightarrow \text{hh}\tilde{G}\tilde{G} + \mathbf{X}_{\text{soft}}$   $\geq 3\ell/\tau_{\mathbf{h}}$ : arXiv:1709.05406

 $\text{h} \rightarrow \text{bb}$ : arXiv:1709.04896

 $\text{h} \rightarrow \gamma\gamma$ : arXiv:1709.00384

**combined**: arXiv:1801.03957

 $\text{pp} \rightarrow \tilde{\chi}_i^{0,\pm}\tilde{\chi}_j^{0,\pm} \rightarrow (\text{h}/\mathbf{Z})(\text{h}/\mathbf{Z})\tilde{G}\tilde{G} + \mathbf{X}_{\text{soft}}$  **2 $\ell$  opposite-sign**: arXiv:1709.08908 BF = 50%

 $\geq 3\ell/\tau_{\mathbf{h}}$ : arXiv:1709.05406 BF = 50%

 $\text{h} \rightarrow \gamma\gamma$ : arXiv:1709.00384 BF = 50%

**combined**: arXiv:1801.03957 BF = 50%

 $\text{pp} \rightarrow \tilde{\chi}_i^{0,\pm}\tilde{\chi}_j^{0,\pm} \rightarrow \mathbf{ZZ}\tilde{G}\tilde{G} + \mathbf{X}_{\text{soft}}$  **2 $\ell$  opposite-sign**: arXiv:1709.08908

 $\geq 3\ell/\tau_{\mathbf{h}}$ : arXiv:1709.05406

**combined**: arXiv:1801.03957

0 250 500 750 1000 1250 1500 1750 2000  
mass scale [GeV]

Selection of observed limits at 95% C.L. (theory uncertainties are not included). Probe **up to** the quoted mass limit for light LSPs unless stated otherwise. The quantities  $\Delta M$  and  $x$  represent the absolute mass difference between the primary sparticle and the LSP, and the difference between the intermediate sparticle and the LSP relative to  $\Delta M$ , respectively, unless indicated otherwise.