\[ \tilde{t}_1 \tilde{t}_1, \tilde{b}_1 \tilde{b}_1 \text{ production, } m(\tilde{\chi}_1^\pm) \approx 2 m(\tilde{\chi}_1^0), (M_2 = 2 M_t), \text{ March 2018} \]

**ATLAS Preliminary**  
\( \sqrt{s} = 13 \text{ TeV}, 36.1 \text{ fb}^{-1} \), All limits at 95% CL

- Best Observed limit \( \mu > 0 \) 0L/1L/2L
- Best Observed limit \( \mu < 0 \) 0L/1L/2L
- Expected limit 0L [1709.04183]
- Expected limit 1L [1711.11520]
- Expected limit 2L [1708.03247]

\[ \tilde{t}_1 \to b \tilde{\chi}_1^+, t \tilde{\chi}_{1,2}^0 \]
\[ \tilde{b}_1 \to t \tilde{\chi}_1^+, b \tilde{\chi}_{1,2}^0 \]
\[ \tilde{\chi}_1^+ \to W \tilde{\chi}_1^0 \]
\[ \mu > 0; \tilde{\chi}_2^0 \to h \tilde{\chi}_1^0 \text{ (dominant), } Z \tilde{\chi}_1^0 \]
\[ \mu < 0; \tilde{\chi}_2^0 \to h \tilde{\chi}_1^0, Z \tilde{\chi}_1^0 \]

\[ \Delta m(t_1, \tilde{\chi}_1^0) < m(\tilde{\chi}_1^0) + m(b) \]

\[ \tilde{b}_1 \text{ (800 GeV)} \]
\[ \tilde{t}_1 \text{ (800 GeV)} \]

**Legend:**
- Blue solid line: Best Observed limit \( \mu > 0 \) 0L/1L/2L
- Red solid line: Best Observed limit \( \mu < 0 \) 0L/1L/2L
- Dashed line: Expected limit 0L
- Dotted line: Expected limit 1L
- Dashed-dotted line: Expected limit 2L

**Note:**
- All limits at 95% CL