

Special Report

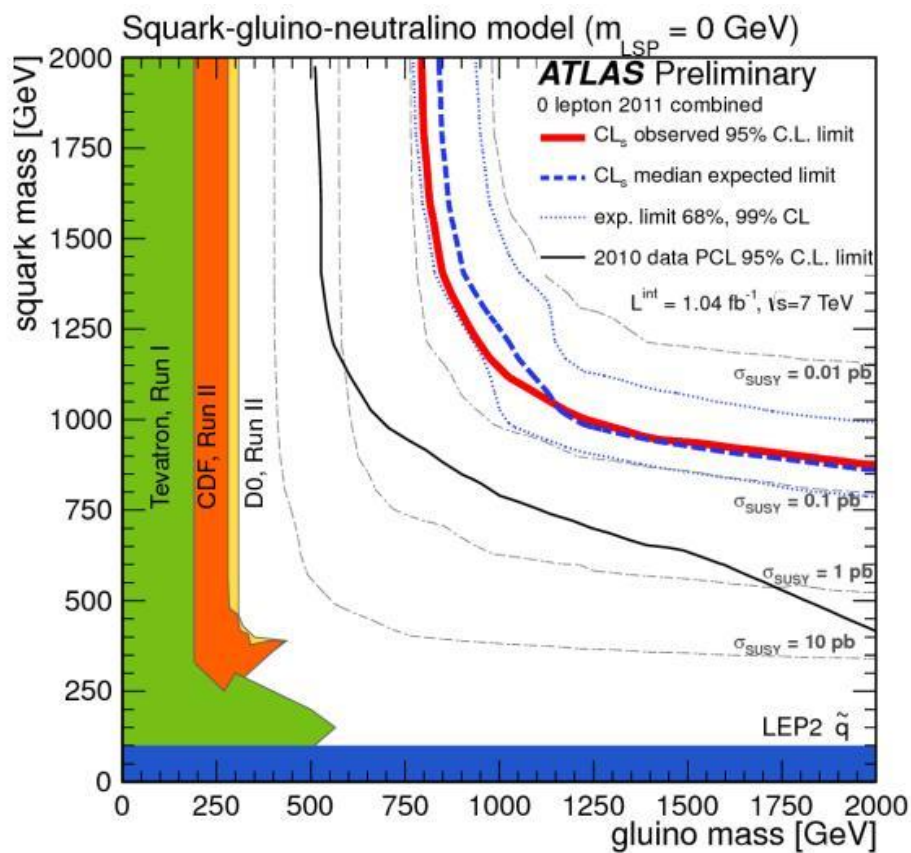
SUSY Was Not Around the Corner

Philip E. Gibbs *

Abstract

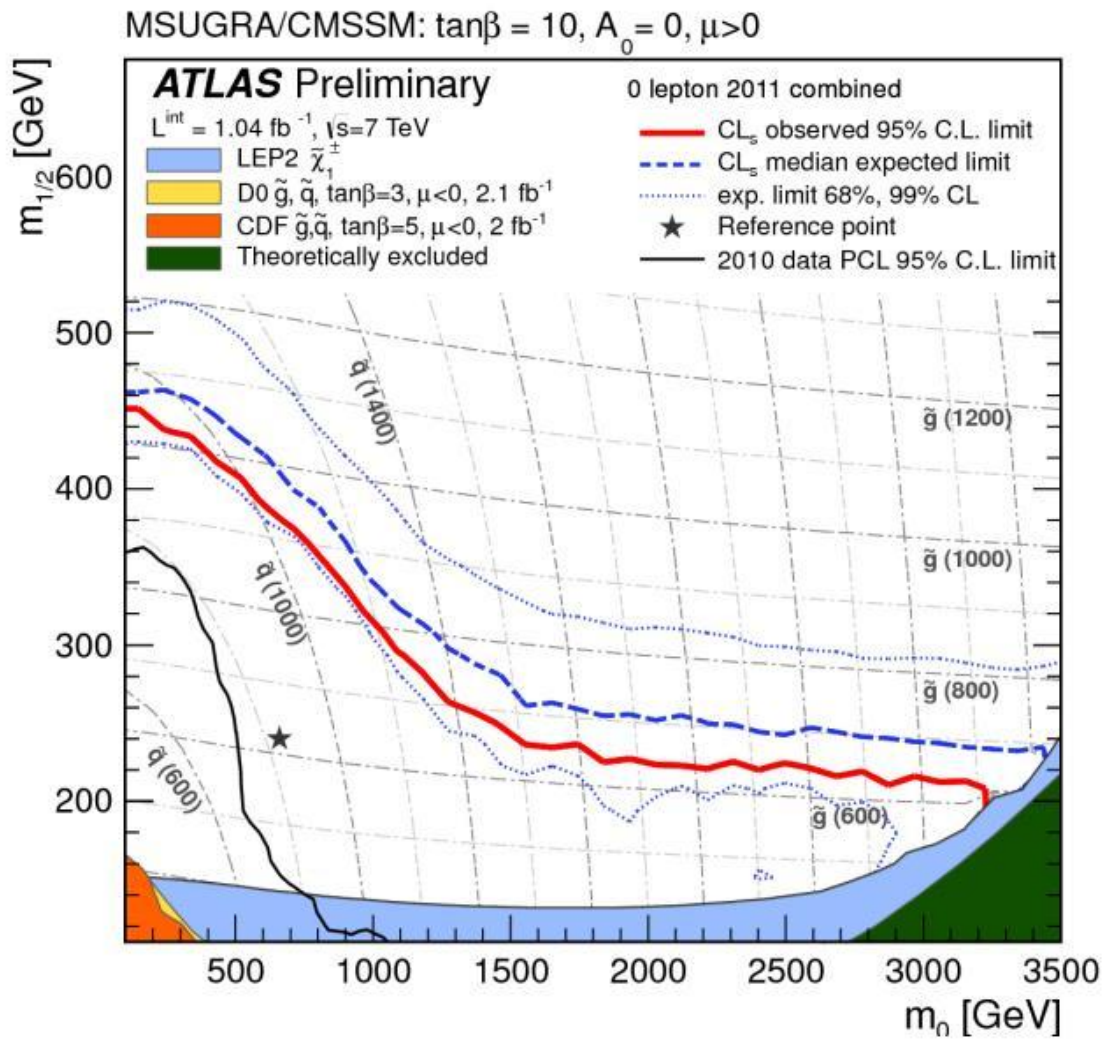
ATLAS has produced [new exclusions limits for SUSY \(Taffard\)](#) models using jets plus missing transverse energy from 1/fb of data. These go well beyond previous limits leading to the conclusion that “SUSY” was NOT “just round the corner” as theorists hoped.

Key Words: ATLAS, SUSY, ESP-HEPS, 2011.



Exclude at 95% C.L
 $m_{\tilde{g}} \leq 800 \text{ GeV} \quad m_{\tilde{q}} \leq 850 \text{ GeV}$
 If $m_{\tilde{g}} = m_{\tilde{q}}$, masses $< 1075 \text{ GeV}$

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Exclude at 95% C.L
 If $m_{\tilde{g}} = m_{\tilde{q}}$, masses < 980 GeV

Where does this leave SUSY? Well SUSY is a many parameter theory with a lot of variations and it remains the most plausible explanation for many observations. More searches may find it.

Ultimately it will be the Higgs searches that have the final say. SUSY predicts a light Higgs with higher mass partners. If the Higgs is found to be something different SUSY will be much harder to motivate. Until the Higgs sector is resolved, SUSY lives on.

References

1. <http://blog.vixra.org/2011/07/21/susy-was-not-round-the-corner/>