

Search for new physics in the tt+E^{miss} final state using 140 fb⁻¹ of pp collision data at $\sqrt{s} = 13$ TeV

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Target Scenarios

following, Beyond Standard Model (BSM) scenarios.

Dark Matter



Analysis Strategy









Results

systematic uncertainties complete the fit model

Comparing to previous analysis based on the same dataset:

- \rightarrow Sensitivity to stop pair production for $\Delta m(t, \chi_1^0) \simeq m(t)$ is significantly improved.
- $\tilde{t}_1 \tilde{t}_1$ production: $\tilde{t}_1 \rightarrow t \tilde{\chi}_1^0$, bW $\tilde{\chi}_2^0$ 000 GeV **ATLAS** Preliminary Expected Limit ($\pm 1 \sigma_{exp}$) 900 Observed Limit √s=13 TeV, 140 fb⁻¹



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 $m(\tilde{t}_1)$ [GeV]