

Searches for top squarks in compressed SUSY scenarios at HL-LHC with the ATLAS detector

Monday, 30 October 2017 19:11 (1 minute)

Top squark pair production in scenarios with compressed mass spectra are experimentally challenging. The reach at the high-luminosity phase of the LHC is expected to significantly extend beyond the current limits, when considering models where the top squarks decays via $\tilde{t}_1 \rightarrow t\tilde{\chi}_1^0$. This poster presents benchmark studies targeting dileptonic final states with a parameterised simulation of the ATLAS detector at a centre-of-mass energy of 14 TeV.

Results are shown for an integrated luminosity of 3000 fb^{-1}

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Session Classification: Poster session