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## **【333】 Search for Supersymmetry with tbMET final states using full ATLAS Run2 data**

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Supersymmetry (SUSY) is an extension of the Standard Model (SM) of particle physics that aims to fill gaps in SM by predicting a SUSY partner for each SM particle. I am performing a SUSY search dedicated to analysing full LHC ATLAS Run2 data for 3rd generation squarks with top and bottom quarks and missing transverse energy for the undetectable SUSY particles called neutralinos (tbMET) as final states. This analysis focusing on tbMET final state is interesting as it is optimised with a branching ratio of 50% which makes this more dominant compared to searches with ttMET/bbMET final states. In this talk I will present the ongoing work on this analysis.

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