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Searches for direct pair production of third generation squarks with the ATLAS detector

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Supersymmetric theories offer an elegant solution to the naturalness problem of the Standard Model Higgs, constraining the mass of the superpartners of the third generation quarks, the stop and the sbottom, to be below the TeV scale. This talk presents the status of the ATLAS searches for direct pair production of third generation squarks. It presents an overview of the latest public analyses carried out during the Run 2 of the Large Hadron Collider (LHC) using statistics of 2015 and 2015+2016 proton-proton collisions at $\sqrt{s} = 13$ TeV collected by the ATLAS detector.

Summary

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