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Search for top squarks in final states with one isolated lepton in $\sqrt{s}=13$ TeV pp collisions with the ATLAS detector

One of the most important parameters in supersymmetry is the mass of the supersymmetric partner of the third generation quarks. The scalar top quark mass lighter than 1 TeV is favored in many theories, but no evidence has not been found in the previous searches. Therefore the search needs to be performed more extensively considering various LSP scenarios with increased integrated luminosity. In this poster, the latest results in the search for scalar top quarks using one isolated lepton, jets, and missing transverse momentum with ATLAS detector in $\sqrt{s}=13$ TeV pp collisions, are presented.

Experimental Collaboration

ATLAS

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