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Searches for strong production of supersymmetric particles with the ATLAS detector

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Supersymmetry is one of the best motivated and studied Standard Model (SM) extensions, thanks to its elegant solutions to several aspects not addressed by the SM. Naturalness arguments for weak-scale supersymmetry allow supersymmetric partners of the gluons and third generation quarks with masses light enough to be produced at the LHC. The latest results of searches conducted by the ATLAS experiment which target gluino and squark production, including stops and sbottoms, in a variety of decay modes are presented in this talk, covering models where the R-parity is conserved.

Summary

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