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Type: **Talk**

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

Thursday 24 August 2017 17:00 (30 minutes)

Naturalness arguments for weak-scale supersymmetry favour supersymmetric partners of the third generation quarks with masses not too far from those of their Standard Model counterparts. Top or bottom squarks with masses less than or around one TeV can also give rise to direct pair production rates at the LHC that can be observed in the data sample recorded by the ATLAS detector. The talk presents recent ATLAS results from searches for direct stop and sbottom pair production considering both R-parity conserving and R-parity violating scenarios, using the data collected during the LHC Run 2.

Topic:

Topic: High Energy Particle Physics

Summary

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Session Classification: Parallel session

Track Classification: A High Energy Particle Physics: