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## Recent results from SUSY searches with ATLAS and prospects for the HL-LHC

*Monday 26 November 2018 18:05 (25 minutes)*

Despite the absence of experimental evidence, weak-scale supersymmetry remains one of the best motivated and studied Standard Model extensions. This talk summarises recent ATLAS results on searches for SUSY, including strong production and electroweak production. Strong limits can be set on gluino and squark (including stop) production with recent data. Several searches explore long-lived scenarios that may be detected through abnormal specific energy loss, appearing or disappearing tracks, displaced vertices, long time-of-flight or late calorimetric energy deposits. Projections for sensitivity with the HL-LHC will also be shown.

### Content of the contribution

Experiment

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