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ATLAS searches for non-minimal, compressed and long-lived SUSY scenarios

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Supersymmetry (SUSY) provides elegant solutions to several problems in the Standard Model, and searches for SUSY particles are an important component of the LHC physics program. With increasing mass bounds on more classical MSSM scenarios other variations of supersymmetry, including long-lived particles, compressed states or a non-minimal particle content, become increasingly interesting. This talk will present the latest results of searches conducted by the ATLAS experiment targeting strong and electroweak production in R-parity-violating and long-lived models, as well as compressed and non-minimal models.

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