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Search for Dark Matter Candidate with the ATLAS detector

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Supersymmetry is one of the more appealing theory beyond the Standard Model, and provides a natural Dark matter candidate.

First ATLAS searches for signals of Supersymmetry in proton-proton collisions at the LHC will be reported.

These searches are performed in various channels containing different lepton and jet multiplicities in the final states; the full data sample recorded in the 2010 LHC run, corresponding to an integrated luminosity of 35 pb⁻¹, has been analysed.

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