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A search for Supersymmetric Particles in events with two leptons and E_{miss} with the ATLAS experiment at the LHC

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The signature characterized by 2 leptons and missing energy offers a very promising venue for the discovery and measurement of Supersymmetry at the LHC.

We present the results of an analysis based on this signature, performed with the data collected in 2010 by the ATLAS experiment.

Special emphasis is given to a technique called 'flavour subtraction', which allows a good control of the backgrounds exploiting the correlations of the flavour of the two leptons in the signal.

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