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## **Search for supersymmetry in final states with jets, missing transverse momentum and isolated leptons with the ATLAS detector in 5 fb<sup>-1</sup> of $\sqrt{s}=8$ TeV pp collisions**

This poster presents a new inclusive search for supersymmetry (SUSY) by the ATLAS experiment at the LHC in proton-proton collisions at a center-of-mass energy  $\sqrt{s} = 8$  TeV in final states with jets, missing transverse momentum and one isolated electron or muon. The search is based on data from the early 2012 data-taking period, corresponding to an integrated luminosity of 5.8 fb<sup>-1</sup>. A dedicated signal region is introduced to be sensitive to decay cascades of SUSY particles.

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