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Contact Search for mono-jet plus missing transverse energy in pp collisions with the ATLAS detector

A search for one energetic jet and high missing transverse energy - in the context of Large Extra Dimensions (LED) scenarios - is performed in proton-proton collisions at centre of mass energy of 7 TeV, with the ATLAS detector at the LHC (Large Hadron Collider). Four kinematic regions are explored in a model independent way, using the 2011 data corresponding to 4.7 fb⁻¹. The contribution of standard model backgrounds to the signal region is determined with a data-driven method. No data excess beyond the Standard Model expectations is found, and lower limits are set on the scale of the ADD LED model, for various number of extra dimensions.

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Collaboration Name
Please enter the name of the collaboration or group using the acronym, as in: ABC Collaboration

ATLAS Collaboration

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