



**HEP 2013
Stockholm
18-24 July 2013**



Contribution ID: 367

Type: **Poster Presentation**

Searches for heavy long-lived sleptons and R-Hadrons with the ATLAS detector in pp collisions at $\sqrt{s} = 8$ TeV

A search for long-lived particles is presented using the full 2012 data sample from proton-proton collisions at a centre-of-mass energy $\sqrt{s} = 8$ TeV recorded by the ATLAS detector at the LHC. Long-lived sleptons and R-hadrons are searched for in different scenarios, based on their possible interactions in the inner detector, the calorimeters and the muon spectrometer.

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Track Classification: Higgs and New Physics