



Contribution ID: 851

Type: **Poster Sessions**

## Search for charged long-lived heavy particles with the ATLAS experiment at the LHC

*Saturday 7 July 2012 18:00 (1 hour)*

We report on a search for charged long-lived heavy particles, as predicted by several beyond the Standard Model theories. Such particles can be detected in ATLAS through anomalous specific ionisation measured in the Pixel detector, their slow motion ( $\beta < 1$ ) measured in the calorimeter, and also through their possible muon-likeness in the Muon Spectrometer. Results of this search on the full data sample collected by ATLAS during 2011 are shown, both with a Pixel detector based approach and by combining the information from various subdetectors.

**Authors:** Dr GUIDO, Elisa (INFN-Genova (IT)); GUIDO, Elisa (INFN Genova)

**Presenter:** Dr GUIDO, Elisa (INFN-Genova (IT))

**Session Classification:** Poster Session

**Track Classification:** Track 2 - Beyond the Standard Model - SUSY