

# SUSY 2015, 23rd International Conference on Supersymmetry and Unification of Fundamental Interactions

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## Searches for long lived SUSY particles

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Several supersymmetric models predict massive long-lived supersymmetric particles with lifetimes from fractions of a nanosecond to lifetimes that are effectively stable in the detector. Such particles may be detected through abnormal specific energy loss, disappearing tracks, displaced vertices, long time-of-flight or late calorimetric energy deposits. The talk presents recent results from searches for long-lived supersymmetric particles with the ATLAS detector. Results will be based on 20 fb<sup>-1</sup> of pp collisions at  $\sqrt{s} = 8$  TeV. First results with run2 data will also be included if available.

**Primary author:** COTTIN BURACCHIO, Giovanna Francesca (University of Cambridge (GB))

**Presenter:** COTTIN BURACCHIO, Giovanna Francesca (University of Cambridge (GB))

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