

Searches for long lived SUSY particles

Monday 24 August 2015 16:50 (20 minutes)

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-1 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))

Session Classification: SUSY Expt. and Phenomenology

Track Classification: Supersymmetry Phenomenology and Experiment