



ID de Contribution: 58

Type: **Ordinary**

Searches for long lived supersymmetric particles with the ATLAS detector

jeudi 19 mars 2015 10:45 (15 minutes)

Several supersymmetric extensions of the Standard Model predict the existence of new particles whose lifetime can be comparable or longer than the time of flight through a collider detector. The direct detection of these particles, or of their decays inside the detector, requires dedicated experimental techniques.

This talk presents recent ATLAS searches for supersymmetric particles with long lifetimes, performed with 20 fb⁻¹ of pp data of $\sqrt{s} = 8$ TeV pp data. The results of searches for decays of gluinos, charginos or neutralinos inside the detector, as well as for the direct detection of long lived gluinos, squarks, charginos and sleptons are presented.

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Classification de Session: Beyond SM

Classification de thématique: Experiment