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Squark and gluino searches with R parity violating decays and long-lived particles in ATLAS

mardi 13 mars 2018 19:00 (15 minutes)

From strongly produced initial states, SUSY phenomenology offers a rich array of observable signatures. Naturalness arguments suggest decays of gluinos through heavy-flavor quarks. R-parity violation may offer signatures with many leptons or jets, but without or with only low missing transverse momentum. Several supersymmetric models also predict massive long-lived supersymmetric particles that may be detected through abnormal specific energy loss, appearing or disappearing tracks, displaced vertices, long time-of-flight or late calorimetric energy deposits. This talk discusses recent ATLAS results on the production of squarks and gluinos focusing on the non-vanilla scenarios.

Summary

Auteur principal: BARBERIS, Dario (University and INFN Genova)

Orateur: BARBERIS, Dario (University and INFN Genova)

Classification de Session: Tuesday afternoon: BSM (Susy and exotics (cont))