

Searches for promptly decaying squarks and gluinos with ATLAS

Monday, 20 May 2019 15:00 (15 minutes)

Despite the absence of experimental evidence, weak-scale supersymmetry remains one of the best motivated and studied Standard Model extensions. This talk summarizes recent ATLAS results on inclusive searches for supersymmetric squarks of the first two generations and gluinos. It covers both R-parity conserving models that predict dark matter candidates and R-parity violating models that typically lead to high-multiplicity final states without large missing transverse momentum. The searches target final states including jets, leptons, photons, and missing transverse momentum.

Primary author: JUSTE ROZAS, Aurelio (ICREA and IFAE (ES))

Presenter: MAURER, Julien (IFIN-HH (RO))

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