

Search for new physics with long lived particles in ATLAS

Various models of new physics, including hidden valley models and some supersymmetric models, predict the existence of long lived particles decaying a significant distance away from the interaction point, or even leaving the detector undecayed.

We present ATLAS strategies to improve triggering and reconstruction of these events, and discuss prospects for searches in early LHC data.

Primary author: Prof. ANNA, Di Ciaccio (University of Roma Tor Vergata and INFN)

Presenter: Dr POLICICCHIO, Antonio Policicchio (University of Washington, Seattle (WA), USA)

Track Classification: Poster session