XII International Conference on New Frontiers in Physics



Contribution ID: 32

Type: Talk

Searches for BSM physics using challenging and long-lived signatures with the ATLAS detector

Thursday, July 20, 2023 11:00 AM (25 minutes)

Various theories beyond the Standard Model predict new, long-lived particles with unique signatures which are difficult to reconstruct and for which estimating the background rates is also a challenge. Signatures from displaced and/or delayed decays anywhere from the inner detector to the muon spectrometer, as well as those of new particles with fractional or multiple values of the charge of the electron or high mass stable charged particles are all examples of experimentally demanding signatures. The talk will focus on the most recent results using 13 TeV pp collision data collected by the ATLAS detector.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

ATLAS

Is the speaker for that presentation defined?

No

Details

N/A

Internet talk

Maybe

Primary author: PETERS, Krisztian (Deutsches Elektronen-Synchrotron (DE))
Co-author: TORRO PASTOR, Emma (Univ. of Valencia and CSIC (ES))
Presenter: TORRO PASTOR, Emma (Univ. of Valencia and CSIC (ES))
Session Classification: High Energy Particle Physics

Track Classification: Main topics: High Energy Particle Physics