

Searches for axion-like-particles (ALPs) in Higgs boson decays in ATLAS

Saturday, 20 July 2024 17:19 (17 minutes)

Searches for axion-like-particles (ALPs) in Higgs boson decays, as well as searches for ALP production with two top quarks are presented, using LHC collision data at 13 TeV collected by the ATLAS experiment in Run 2. The searches cover a mass range of ALPs below the Z-boson mass. Novel reconstruction and identification techniques used in these searches are described.

Alternate track

1. Beyond the Standard Model

I read the instructions above

Yes

Primary authors: DELIOT, Frederic (Université Paris-Saclay (FR)); MARTINEZ SUAREZ, Paula (The Barcelona Institute of Science and Technology (BIST) (ES))

Presenter: MARTINEZ SUAREZ, Paula (The Barcelona Institute of Science and Technology (BIST) (ES))

Session Classification: Higgs Physics

Track Classification: 01. Higgs Physics