DPF2015



Contribution ID: 388 Type: not specified

Prospects for a Search for Z' to the Dimuon Final State in Run 2 of the LHC

Tuesday 4 August 2015 17:45 (15 minutes)

I will report the physics potential for a search for a new, non-Standard Model gauge boson, Z', in its decay to the dimuon final state in Run 2 of the Large Hadron Collider, using the ATLAS detector. Detection of high transverse momentum muons is crucial for the search. A first look at the performance of high transverse momentum muons using early Run 2 data at 13 TeV center-of-mass energy will be reported.

Oral or Poster Presentation

Oral

Author: LIU, Yanlin (Univ. of Michigan (US) / Univ. of Sci. & Tech. of China (CN))

Presenter: LIU, Yanlin (Univ. of Michigan (US) / Univ. of Sci. & Tech. of China (CN))

Session Classification: BSM Physics

Track Classification: BSM Collider