

Performance of the ALICE charge-particle veto detector in pp collisions at 13 TeV

Thursday, 25 October 2018 17:50 (15)

Performance of the ALICE charge-particle veto detector in pp collisions at 13 TeV

Sergey Evdokimov for the ALICE collaboration

The charged-particle veto (CPV) detector of the ALICE experiment is a multi-wire proportional chamber with pad readout. It is designed to improve photon identification in the photon spectrometer PHOS. One module of the CPV detector was put in operation in LHC Run2 in 2015. In this talk we will discuss the performance of the CPV in pp collisions at $\sqrt{s}=13$ TeV, which was studied using data collected by ALICE in 2016-2017. We will present the estimate of the efficiency of charged-particle track reconstruction in the CPV, optimization of photon identification criteria and the capabilities of the PHOS+CPV. Plans for the CPV upgrade in Run3 will also be presented.

☒

Primary author(s) : Mr. EVDOKIMOV, Sergey (NRC "Kurchatov institute"); ALICE, collaboration

Presenter(s) : Mr. EVDOKIMOV, Sergey (NRC "Kurchatov institute")

Session Classification : Facilities and Advanced Detector Technologies

Track Classification : Facilities and advanced detector technologies