



Contribution ID: 120

Type: Poster

Angular correlations of heavy-flavour decay electrons and charged particles in pp collisions at $\sqrt{s} = 5.02$ TeV with ALICE at the LHC

Friday 8 April 2022 14:36 (4 minutes)

Two-particle azimuthal correlations triggered by electrons from heavy-flavour hadron decays can be used for heavy-flavour jet studies. By changing the momentum scales of the trigger and associated particles, the heavy-flavour jet structure can be investigated. In pp collisions, heavy-flavour correlations can be used in particular to study the production and fragmentation of heavy quarks.

In this poster, we present the recent ALICE measurements of azimuthal correlations of high- p_T heavy-flavour decay electrons with charged particles in pp collisions at $\sqrt{s} = 5.02$ TeV from the LHC Run 2 data. The results from pp collisions are compared with PYTHIA8 calculations to investigate the fragmentation processes.

Author: SINGH, Ravindra (Indian Institute of Technology Indore (IN))

Presenter: SINGH, Ravindra (Indian Institute of Technology Indore (IN))

Session Classification: Poster Session 3 T11_1

Track Classification: Heavy flavors, quarkonia, and strangeness production