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Production of electrons from beauty-hadron decays in pp collisions at the LHC with ALICE

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The measurement of heavy-flavor production cross sections in pp collisions at LHC energies is an excellent tool to test perturbative Quantum Chromodynamics calculations. Due to their large masses, charm and beauty quarks are mainly produced in hard scattering processes at the initial stage of the collisions. Moreover, beauty-hadron measurements in pp collisions are essential as a baseline for understanding beauty-quark production and in-medium energy loss in heavy-ion collisions. In this poster, we will describe the analysis of the electron impact-parameter distribution performed to separate the electrons from beauty decays from the other sources. The identification of electrons using the Time Projection Chamber (TPC) and Time of Flight (TOF) will be discussed. We will report the status and updates of the measurements of electrons from beauty-hadron decays in pp collisions.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

Presenter name already specified

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