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Heavy flavour results in pp collisions at LHC with ALICE

Thursday, 7 June 2012 14:30 (20 minutes)

The ALICE detector provides good performance and specific detector characteristics to study open heavy flavour hadrons and quarkonia, at central (|y| < 0.9) and forward (2.5 < y < 4) rapidity, thanks to its low momentum reach, particle identification capabilities and precise vertexing.

Open heavy flavour production is studied using semileptonic decays to electrons and muons and, for open charm states (Dˆ0, Dˆ+, Dˆ* and D_s) at central rapidity, also from exclusive hadronic decay channels. This presentation will cover recent results from measurements in pp collisions at different center of mass energy (at $\sqrt{(}s)$ = 7 TeV and 2.76 TeV) for all mentioned channels (hadrons, electrons and muons).

This set of measurements provides an important test of pQCD calculations and a crucial baseline reference for heavy-ion collisions where the heavy quarks produced early in the collision are used to probe and characterize the strongly-interacting matter produced at high energy density and temperature.

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Collaboration Name
Please enter the name of
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using the acronym, as in:
ABC Collaboration

ALICE Collaboration

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