Contribution ID: **123** Type: **Poster**

D^{*+} production in pp collisions at $\sqrt{s} = 13$ TeV with ALICE at the LHC

Tuesday 2 June 2020 07:30 (1h 20m)

The ALICE experiment is devoted to study the Quark Gluon Plasma (QGP), which is the high-density state of matter, obtained in high-energy heavy-ion collisions, where quarks and gluons are deconfined. Since heavy quarks (charm, beauty) are created mostly with hard scatterings during the first stages of the collisions and their abundances remain constant while the system evolves, they can be used as effective and calibrated QGP probes.

Production of heavy quarks in pp collisions provides a stringent test to pQCD calculations and allows us to study multi-parton interactions by analyzing their production as a function of charged-particle multiplicity. In this poster, D^{*+} ($c\bar{d}$) production as a function of multiplicity in pp collisions at $\sqrt{s} = 13$ TeV using data recorded during 2016, 2017 and 2018 running periods will be presented.

Collaboration (if applicable)

ALICE

Track

Heavy Flavor and Quarkonia

Contribution type

Poster

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