

Strangeness in Quark Matter 2019



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Measurement of the Λ_c production in pp, p-Pb, and Pb-Pb collisions with ALICE Run-2 data

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The study of production of particles which contain heavy quarks (charm and beauty) provides an exceptional tool to investigate the characteristics of the hot and dense QCD medium, the Quark-Gluon Plasma (QGP), created in ultra-relativistic heavy-ion collisions. In particular, heavy-flavour measurements allow one to study the basic properties of this medium, like its energy density, and to investigate the mechanisms in which quarks interact with the QGP. The measurement of the Λ_c production in Pb-Pb collisions, in addition, provides insights into the mechanisms of charm recombination in the medium and allows us to test the microscopic properties of the QGP.

In this poster, we will present the latest results for the Λ_c production in pp, p-Pb, and Pb-Pb collisions including the charm baryon-to-meson ratio. The impact of the new techniques based on machine learning and deep neural networks used for optimising the Λ_c signal will also be discussed.

Collaboration name

ALICE Collaboration

Track

Heavy Flavour

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