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Heavy-flavor hadron production in heavy-ion collisions

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Measurements with hadrons containing heavy quarks are indispensable when studying the properties of the medium created in high-energy nuclear collisions. High-statistics data collected by experiments at RHIC and LHC allow to perform comprehensive studies of the hot and dense QCD matter using heavy quarks as probes and put under scrutiny models describing various aspects of production of heavy-flavor hadrons.

In this talk I will give an overview of the most recent experimental results on heavy flavor production from RHIC and LHC experiments in pp, pA, and AA collisions in range of energies from $\sqrt{s_{NN}}=200$ GeV to 8 TeV and discuss their physics interpretation.

Primary author: CHALOUPKA, Petr (Czech Technical University in Prague)

Presenter: CHALOUPKA, Petr (Czech Technical University in Prague)

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