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Quarkonium production and flow in small systems measured with ALICE

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Quarkonium measurements in hadronic collisions can provide insights into quantum chromodynamics (QCD). The quarkonium formation involves both the perturbative and non-perturbative regimes of QCD and the mechanisms at play are not yet fully understood. In order to get new insights and help constraining model calculations, ALICE has measured several quarkonium observables in proton-proton (pp) collisions at $\sqrt{s} = 13$ TeV. At this energy, new preliminary Υ cross section measurements, as well as the results of the J/ψ elliptic flow v_2 and double J/ψ production, will be presented. In addition, the contributions of prompt and non-prompt J/ψ can also be measured with ALICE detector.

In this contribution, we present new published results on the prompt and non-prompt J/ψ production at midrapidity in p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV. Finally, a first look at the quarkonium mass spectrum, produced at both mid and forward rapidity using fresh Run 3 data collected in pp collisions at $\sqrt{s} = 13.6$ TeV will be shown.

Experiment/Theory

ALICE

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Track Klassifizierung: Heavy flavor and quarkonia