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PHENIX results on identified hadron spectra in small and large systems

Measurements of light hadron production play an important role in understanding final state effects in ultra-relativistic nucleus-nucleus collisions. These include the implications of collective flow in both large and small systems as well as the impact of hadronization by recombination on baryon and strangeness enhancement. Studies of the system size dependence of various observables also shed light on the role of initial conditions, such as the nuclear-overlap size and shape, nuclear modification of parton distribution functions, etc. In this talk, we present recently finalized PHENIX measurements of the production of ϕ -mesons and identified charged hadrons in p +Al and $p/d/{}^3\text{He}/\text{Cu}+\text{Au}$ at 200 GeV and U+U collisions at 193 GeV. The tests of various empirical scalings and comparisons to previous measurements of light hadron production to different model calculations are discussed.

Category

Experiment

Collaboration (if applicable)

PHENIX

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