



XXIV QUARK MATTER DARMSTADT 2014

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Identified charged hadron spectra and ratios in PHENIX

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PHENIX has recently reported [Phys. Rev. C88 024906] measurements of identified charged hadron spectra and ratios in Au+Au and d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Identified hadrons are an important probe of both hot and cold nuclear matter. The intermediate p_T region, 2–5 GeV/c, is of particular interest. In Au+Au collisions, the production of mesons is suppressed in this p_T region relative to that in p+p collisions, while the production of baryons is nearly unmodified. On the other hand, in d+Au collisions, the meson production exhibits a slight enhancement in this p_T region while the baryon production exhibits a much stronger enhancement. In this poster, the p_T spectra and ratios of identified charged hadrons π^\pm , K^\pm , p , and \bar{p} in 5 different centrality classes for each collision species will be presented. Implications for particle production will be discussed.

On behalf of collaboration:

PHENIX

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