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## PHENIX measurements of identified charged hadron production in $p+Al$ , $p+Au$ , and $Cu+Au$ collisions at $\sqrt{s_{NN}} = 200$ GeV

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Identified hadrons have proven to be useful in elucidating the final state effects of heavy ion collisions. This includes in particular the important role that hadronization plays on a variety of final state observables. System size is known to influence various observables, and the overlap in system size between different collision systems has helped establish the commonality between them, thereby demonstrating consistent properties of the quark-gluon plasma. In this talk, we will present recently finalized measurements of identified charged hadrons in  $p+Al$ ,  $p+Au$ , and  $Cu+Au$  collisions at  $\sqrt{s_{NN}} = 200$  GeV. We will also compare these to similar results in other collision systems, and discuss the implications for QGP formation and collective flow in small and large systems.

### Category

Experiment

### Collaboration (if applicable)

PHENIX

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