

Contribution ID : 64

Type : not specified

## Systematic study of high $p_T$ hadron production in small collision systems by the PHENIX experiment at RHIC

Tuesday, 12 September 2017 10:15 (0:25)

## Content

High pT hadrons are mainly coming from the fragments of the hard scattered partons produced at the initial stage of the collisions. The suppression of the yield of high pT hadrons was one of the key observables for declaring the discovery of the QGP at RHIC.

The observation of the collective flow of the particles in p+Pb collisions at LHC inspired the field and the experiments at RHIC pursued the same phenomena in many small collision systems, including p/d/He+Au collisions at the cms energies of 200GeV and below. There have been many results showing the existence of the flow in these systems. If there is a strong flow due to formation of the hot matter, it is natural to expect modification of the yield of the high pT hadrons as well.

In this talk, we present the latest results of the high pT hadron production over wide pT and rapidities measured by the PHENIX experiment at RHIC , and discuss what we learned from them.

## Session

Hadronic final states in high pt interactions

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Session Classification: Hadronic final states in high pT interactions (I)