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## Jet and Leading Hadron Production in d+Au Collisions in the PHENIX Experiment

*Saturday 24 September 2016 11:00 (20 minutes)*

PHENIX has measured jet yields in p+p and d+Au collisions at 200 GeV [1]. In minimum bias collisions, the nuclear modification factor  $R_{dAu}$  is consistent with unity. However, in centrality selected events  $R_{dAu}$  exhibits large  $p_T$ -dependent deviations from unity, challenging conventional models that relate hard-process rates and soft-particle production in nuclear collisions. Comparison of jet production and high  $p_T$   $\pi_0$  production in small system can shed light on the surprising centrality dependence of jets. We will present the jet results and the latest status of the comparison with  $\pi_0$  production.

Reference

[1] A. Adare et al., Physical Review Letters 116, 122301 (2016)

### Summary

### Presentation type

Oral

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