Contribution ID: **602** Type: **Oral**

PHENIX results on longitudinal flow dynamics and event plane decorrelation in d+Au collisions from 19.6 to 200 GeV

Tuesday, February 7, 2017 10:40 AM (20 minutes)

Understanding the longitudinal dependence of flow harmonics and possible event plane decorrelations is an important part of properly extracting information on the matter created in heavy ion collisions. Asymmetric systems, by their nature, provide unique insight on the relation between geometry, transverse expansion, and longitudinal dynamics. In 2016, RHIC operations included d+Au beam energy scan at 200, 62.4, 39, and 19.6 GeV. In this talk we present results on the pseudorapidity dependence of elliptic and triangular flow in the 2016 d+Au beam energy scan. Investigations into longitudinal event plane decorrelations over wide pseudorapidity ranges, including between the projectile and target directions, will be presented and compared with model calculations.

Preferred Track

Collective Dynamics

Collaboration

PHENIX

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Session Classification: Parallel Session 2.2: QCD in Small Systems (II)

Track Classification: Collective Dynamics