



Contribution ID: 561

Type: **Parallel Talk**

PHENIX Results on elliptic and triangular flow from the small-system geometry scan at 200 GeV

Tuesday 15 May 2018 11:10 (20 minutes)

Using the extraordinary versatility of RHIC in selecting different colliding species, the PHENIX experiment has collected data in p+Al, p+Au, d+Au, and $^3\text{He}+\text{Au}$ at 200 GeV center-of-mass energy and conducted a comprehensive set of anisotropic flow measurements. These geometry-controlled experiments provide a unique testing ground for theoretical models that produce azimuthal particle correlations based on initial and/or final state effects.

New results that will be presented at this conference include a complete set of triangular anisotropies of inclusive charged particles and final results on identified pion, kaon and proton $v_2(p_T)$. The v_3 measurements are particularly sensitive to the initial-state fluctuations and the duration of the hot matter stage; the mass-ordered splitting in $v_2(p_T)$ provides information about the role of early-stage collective flow and late-stage hadronic rescattering. Detailed model comparisons with all observables will be discussed.

Content type

Experiment

Collaboration

PHENIX

Centralised submission by Collaboration

Presenter name already specified

Primary author: DAVID, Gabor (Brookhaven National Laboratory)

Presenter: MORROW, Sylvia Irene (Vanderbilt University (US))

Session Classification: Collectivity in small systems

Track Classification: Collectivity in small systems