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Study of kinematic dependence of azimuthal anisotropies in $p/d/^3$He+Au collisions at PHENIX

Monday, 12 July 2021 19:42 (2 minutes)

Various measurements on long-range correlation among produced particles from small collision systems indicate that there are collective flow phenomena in these systems. Previously, PHENIX published elliptic and triangular flow results in p+Au, d+Au, and ^{3}He+Au collisions of different initial geometry which are well described by hydrodynamics. A new independent analysis has been performed using the two-particle correlation method and obtained consistent elliptic and triangular flow with the previous results. In addition, the analysis is extended to various detector combinations to understand non-flow effects and longitudinal decorrelations, both of which can affect flow measurements. In this presentation, new PHENIX results of elliptic and triangular flow in $p/d/^3$He+Au collisions at $\sqrt{s_{NN}} = 200$ GeV will be presented, and the kinematic dependence will be discussed.

Preferred track

Collectivity & Multiple Scattering

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Session Classification: Poster Session