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Collectivity in small and large systems

The role of collective dynamics in small systems is currently under intense debate. Studying the differential measurements of the azimuthal anisotropy coefficients v_n , in both large and small collision systems, can provide unique insight for the identification and characterization of collective dynamics in these systems. We will present recent STAR results for two- ($C_n\{2\}$) and four-particle ($C_n\{4\}$) correlation measurements obtained for a broad range of transverse momenta and centrality intervals for $U + U$ ($\sqrt{s_{NN}} = 193$ GeV), and Au+Au, Cu+Au, Cu+Cu, d+Au and p+Au ($\sqrt{s_{NN}} = 200$ GeV) collisions. The implications for collectivity and medium properties in these systems will be discussed as well.

Primary author: Mr ABDELRAHMAN" MAGDY", Niseem (Stony Brook University)

Presenter: Mr ABDELRAHMAN" MAGDY", Niseem (Stony Brook University)

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