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Type: **Parallel Talk**

PHENIX Measurements of collectivity in $Au + Au$ collisions from higher order cumulants and flow unfolding

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Detailed measurements of collectivity in Au+Au collisions at RHIC provide a key connection between the initial geometry of the deposited energy and the hydrodynamic evolution of the medium. Utilizing the PHENIX silicon detectors, we present new measurements of flow coefficients extending over a wide range in pseudorapidity $-3 < \eta < 3$ and to higher p_T . Over a broad range in centrality, we present cumulant results $v_2\{2\} - v_2\{8\}$ and $v_3\{2\} - v_3\{6\}$ with different methods for isolating flow and non-flow contributions. Complementing these results, we present flow coefficient unfolded distributions and compare them directly with theoretical models with event-by-event fluctuations. We also present a first look at symmetric cumulants of different orders.

Content type

Experiment

Collaboration

PHENIX

Centralised submission by Collaboration

Presenter name already specified

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Session Classification: Correlations and fluctuations

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