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Beam energy dependence of the azimuthal anisotropic flow from RHIC

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Measurements of the beam-energy dependence of anisotropic flow can provide important constraints for initial state models and for precision extraction of the chemical potential (μ_B) and temperature (T) dependence of the QCD matter, specific shear viscosity η/s . It has been predicted that the μ_B and T dependence on η/s could be sensitive to the critical endpoint (CEP) in the QCD matter phase diagram\cite{Laszlo}. We will present and discuss recent RHIC measurements of the anisotropic flow coefficients v_n ($1 \leq n \leq 5$) as a function of harmonic number (n), transverse momentum (p_T), and centrality in Au+Au collisions across the full span of BES-I energies (7.7 – 200 GeV). The implication of these measurements for understanding the medium properties will be discussed.

Primary author: MAGDY , Niseem

Presenter: MAGDY , Niseem

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