

PHENIX Measurements of Anisotropic Flow in Heavy-Ion Collisions at RHIC energies

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The anisotropic flow coefficients v_n can provide constraints crucial for precision extraction of the specific shear viscosity η/s , of the plasma (QGP) produced in heavy-ion collisions at RHIC. A significant recent attention has been given to theoretical studies of v_n (odd and even) and the associated initial [fluctuating] eccentricities which drive v_n . In recent experiments, the PHENIX Collaboration has made detailed differential measurements of v_n (odd and even) relative to the participant event planes Ψ_n as a function of transverse momentum, centrality, collision system (Au+Au, Cu+Cu, Cu+Au, d+Au, He+Au), beam energy for different particle species. The results from these measurements will be presented and discussed.

Presentation type

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