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Viscous Damping of Anisotropic Flow in 7.7 – 200 GeV Au + Au Collisions

Thursday, 30 June 2016 12:20 (20 minutes)

We present recent STAR measurements of the harmonic coefficients $v_n\{2\}$, with $n \leq 4$, obtained for pseudorapidity separation $|\Delta\eta| > 0.7$, for the full span of energies (7.7 - 200 GeV) in beam energy scan I (BES-I). The pT and centrality dependent measurements validate the acoustic scaling patterns expected for hydrodynamic-like expansion over the entire range of beam energies studied. The resulting excitation function for the viscous coefficients, that encode the magnitude of the specific shear viscosity, will be presented and discussed.

On behalf of collaboration:

STAR

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