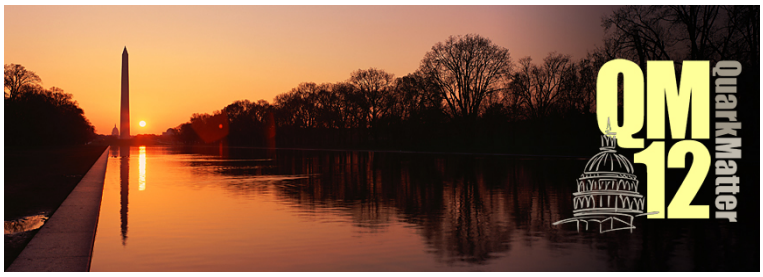

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PHENIX Measurements of Higher-order Flow Harmonics for Identified Charged Hadrons in Au+Au Collisions at 39 –200 GeV

Tuesday, August 14, 2012 2:35 PM (20 minutes)

Collective flow measurements continue to play an important role in ongoing efforts to map out the temperature dependence of the transport coefficient $\frac{\eta}{s}(T)$, for the strongly interacting matter produced in heavy ion collisions at RHIC. Recently, PHENIX has performed a detailed set of measurements of the higher-order flow coefficients (v_n for n=2,3,4), for both inclusive and identified charged hadrons. The results from these new measurements in Au+Au collisions will be presented, as a function of p_T, centrality and beam collision energy, in concert with several scaling properties observed for these data. The role of these results as additional constraints for $\frac{\eta}{s}(T)$ will also be discussed.

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