

Elliptic and triangular flow in the event-by-event 3+1D viscous hydrodynamics

Friday, May 27, 2011 5:30 PM (20 minutes)

I will present results for elliptic and triangular flow coefficients v_2 and v_3 in Au+Au collisions at $\sqrt{s} = 200$ A GeV using event-by-event 3+1D viscous hydrodynamic simulations. I will report on the effect of initial state fluctuations and finite viscosities on the flow coefficients v_2 and v_3 as functions of transverse momentum and pseudo-rapidity.

I will argue that simultaneous measurements of v_2 and v_3 can determine the shear viscosity-entropy ratio more precisely. I will also touch upon recent calculations of v_2 and v_3 for the LHC heavy ion collisions.

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Session Classification: Global and collective dynamics

Track Classification: Global and collective dynamics