High Energy Physics - Phenomenology

Elliptic flow from event-by-event hydrodynamics

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We present an event-by-event hydrodynamical framework which takes into account the initial density fluctuations arising from a Monte Carlo Glauber model. The elliptic flow is calculated with the event plane method and a one-to-one comparison with the measured event plane v_2 is made. Both the centrality- and p_T-dependence of the v_2 are remarkably well reproduced. We also find that the participant plane is a quite good approximation for the event plane.

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