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Understanding flow response using linear and cubic corrections in heavy-ion collisions

Friday 2 December 2016 14:00 (15 minutes)

We study the relation between elliptic flow, v2 and the initial eccentricity, ε2, in heavy-ion collisions,using hydrodynamic simulations. Significant deviations from linear eccentricity scaling are seen in more peripheral collisions. We identify the mechanism responsible for these deviations as a cubic response, which we argue is a generic property of the hydrodynamic response to the initial density profile. The cubic response increases elliptic flow fluctuations, thereby improving agreement of initial condition models with experimental data.

Tipo de Apresentação

Poster

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