

Di-hadron correlation and initial fluctuation

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Large initial fluctuations lead to harmonic flows (v_n) and other final observations in relativistic heavy-ion collisions. Di-hadron azimuthal correlation consists of all contributions from harmonic flows, hot spots, and jet-medium excitations, which are isolated by using different initial conditions within AMPT model. However γ -hadron azimuthal correlation can only be caused by jet-medium interactions, a comparative study of di-hadron and γ -hadron correlations can reveal more dynamics about jet-medium interactions and initial fluctuations.

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