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E-by-E MUSIC Afterburner

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Hydrodynamic models enjoy much success in describing and predicting the bulk dynamics of relativistic heavy ion collisions.

Recent studies have clearly shown that including initial and final fluctuations is essential for detailed study of the evolving QGP.

So far, however, not many studies appeared which incorporate both fluctuations at the same time.

Here we present our first results in including both the initial and final state fluctuations by combining the event-by-event 3-D viscous hydrodynamics model (MUSIC) with the publicly available UrQMD afterburner. Influence of these fluctuations on particle spectra, elliptic flow and higher harmonics will be presented.

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