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Hydro plus Jets event generation

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We present a hybrid model of hydrodynamics, jets and Boltzmann transport for heavy ion collisions. While our previous work to couple MUSIC hydro and UrQMD transport was aimed to describe the low- p_T regime, the improved event generator with MARTINI jets is capable of describing the intermediate and high- p_T regimes as well. We discuss MUSIC+MARTINI+UrQMD model, its implications on the properties of QGP matter and further improvements. We also compare different initial conditions –MC-Glauber and IP-Glasma –and show how they affect the hadronic observables.

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