

# E-by-E description of jet energy loss with MARTINI and UrQMD

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We present a hybrid model containing viscous hydrodynamics (MUSIC), jets (MARTINI) and transport model (UrQMD) for heavy ion collision. While our previous work to couple viscous hydrodynamics and hadronic cascade is aimed to describe the low- $p_T$  regime, the improved event generator with MARTINI jets is capable of simulating the intermediate and high- $p_T$  regimes as well. We describe the MUSIC+MARTINI+UrQMD hybrid model with the IP-Glasma initial conditions and show that it can provide reasonable descriptions of the nuclear modification factor  $R_{AA}$  and anisotropic flow coefficients  $v_n$  at the intermediate and high- $p_T$  regimes. The effects of hadronic rescattering in the jet energy loss also will be shown.

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