

Development of v_1 and v_2 of charm in Au+Au collisions using AMPT model

Xinyue Ju

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AMPT setting

Version: ampt-v1.26t9b

Au+Au 200GeV

bimp 0-13.6 fm minbias (0-80%)

PARJ(41): 0.55 parameter a in Lund symmetric splitting function

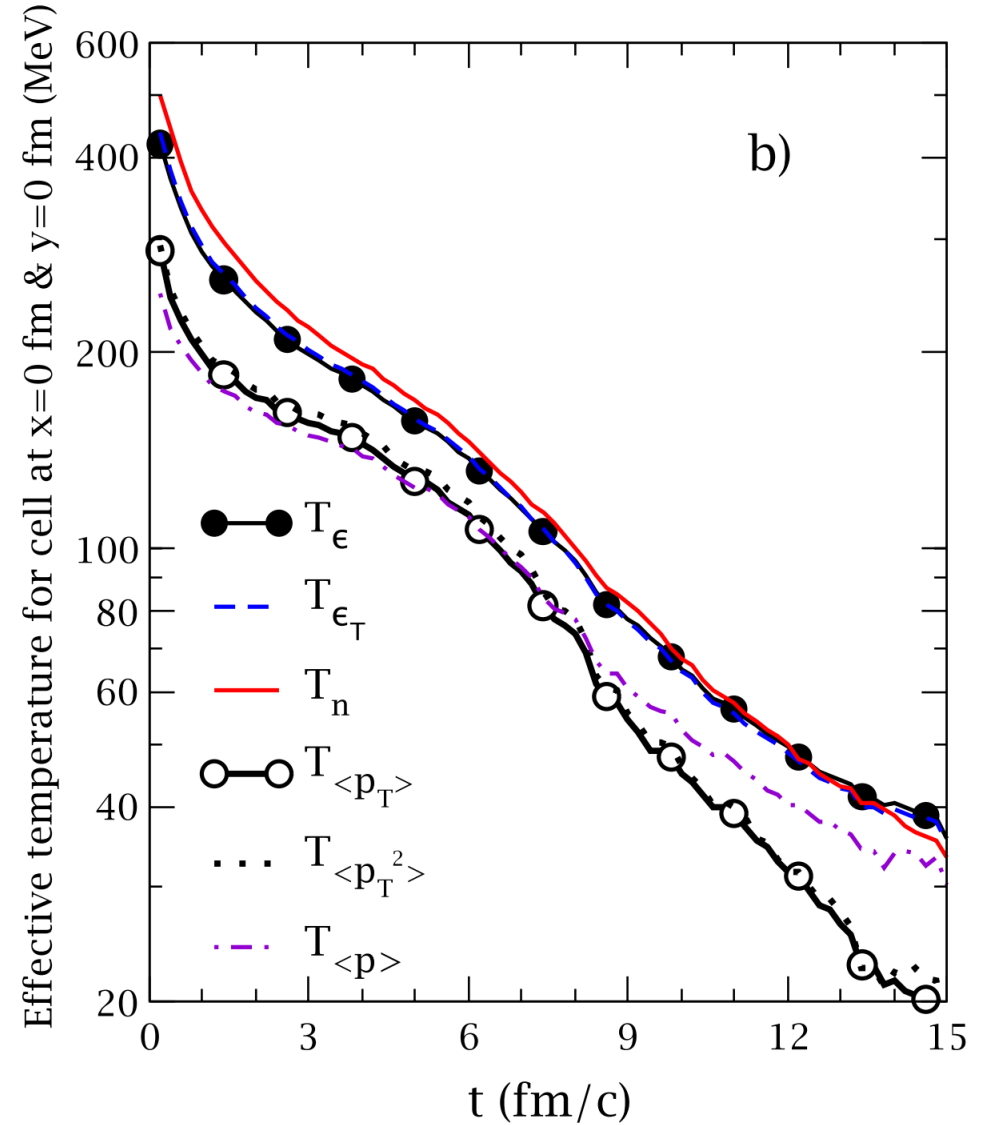
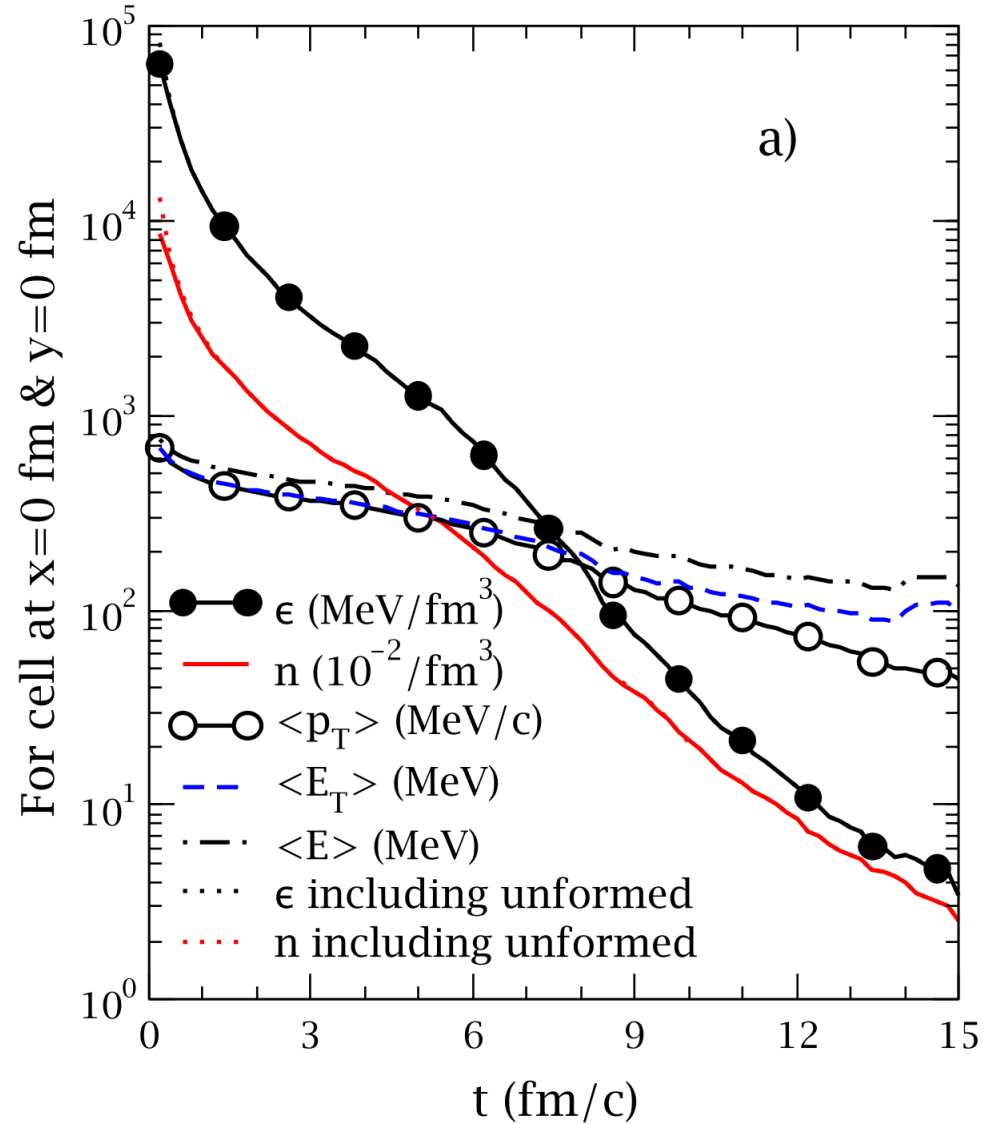
PARJ(42): 0.15 parameter b in Lund symmetric splitting function

parton screening mass: 2.265d0d0 (fm⁻¹)

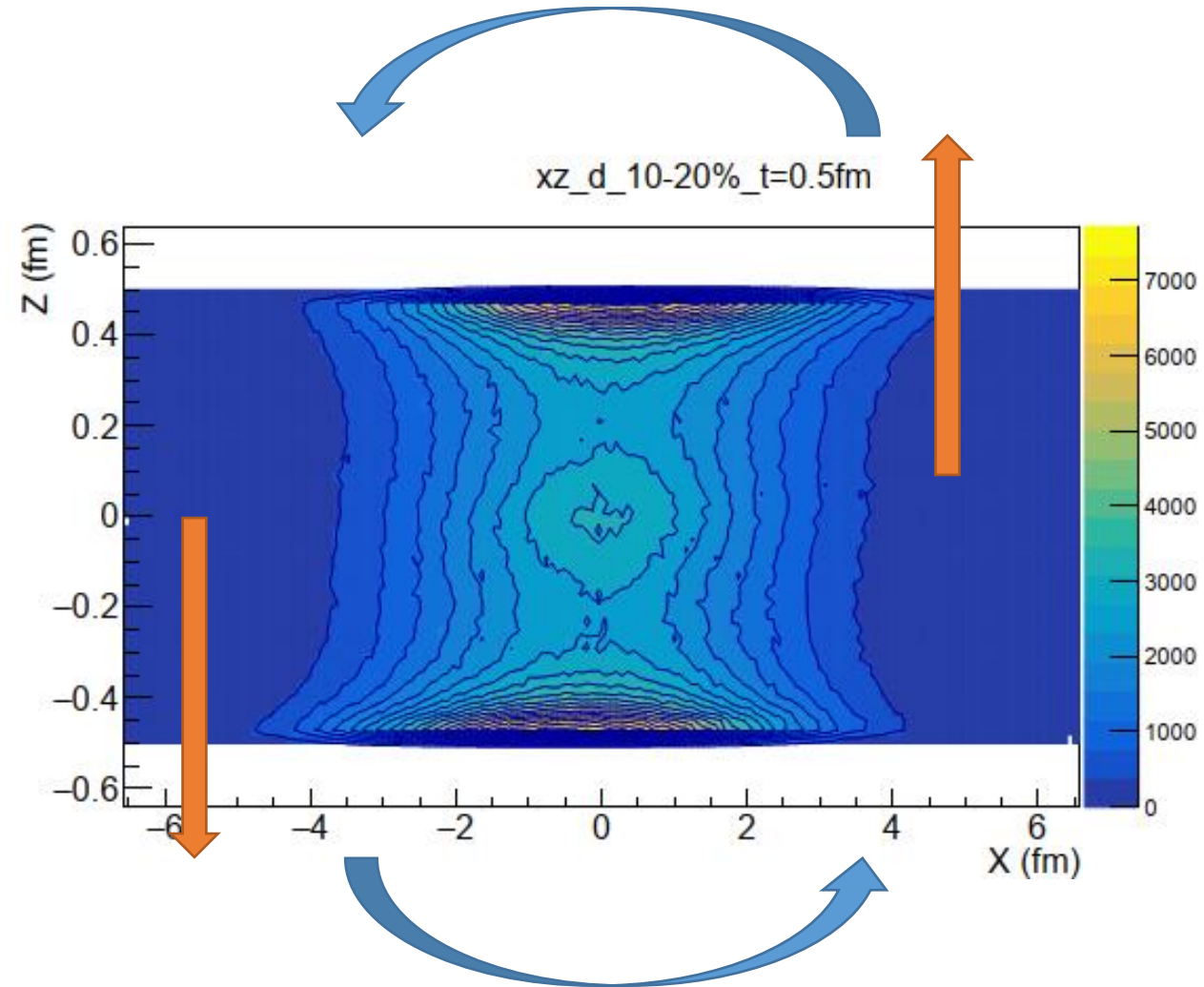
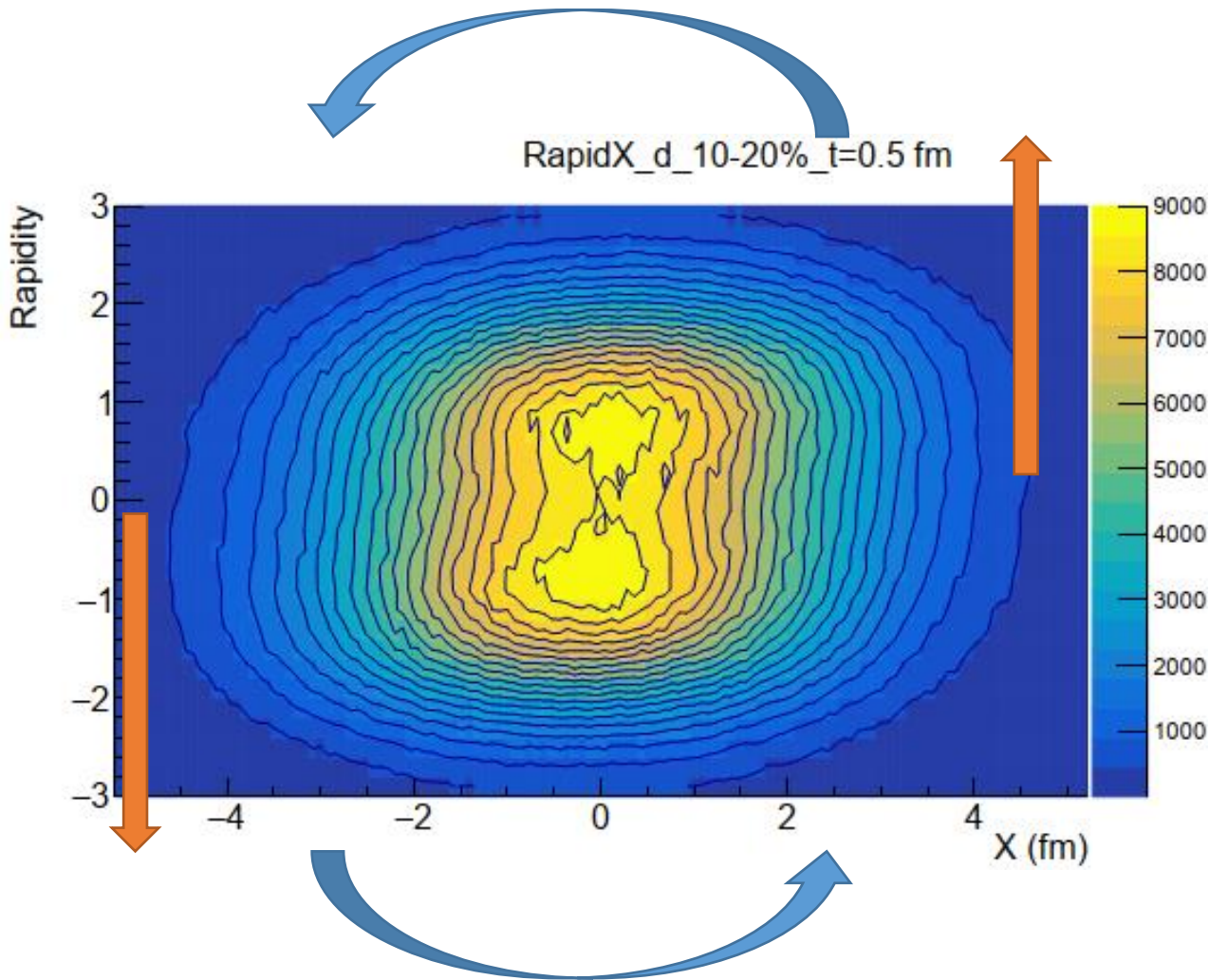
alpha in parton cascade: 0.4714d0

$$\sigma_{gg} \approx \frac{9\pi\alpha_s^2}{2\mu^2}$$

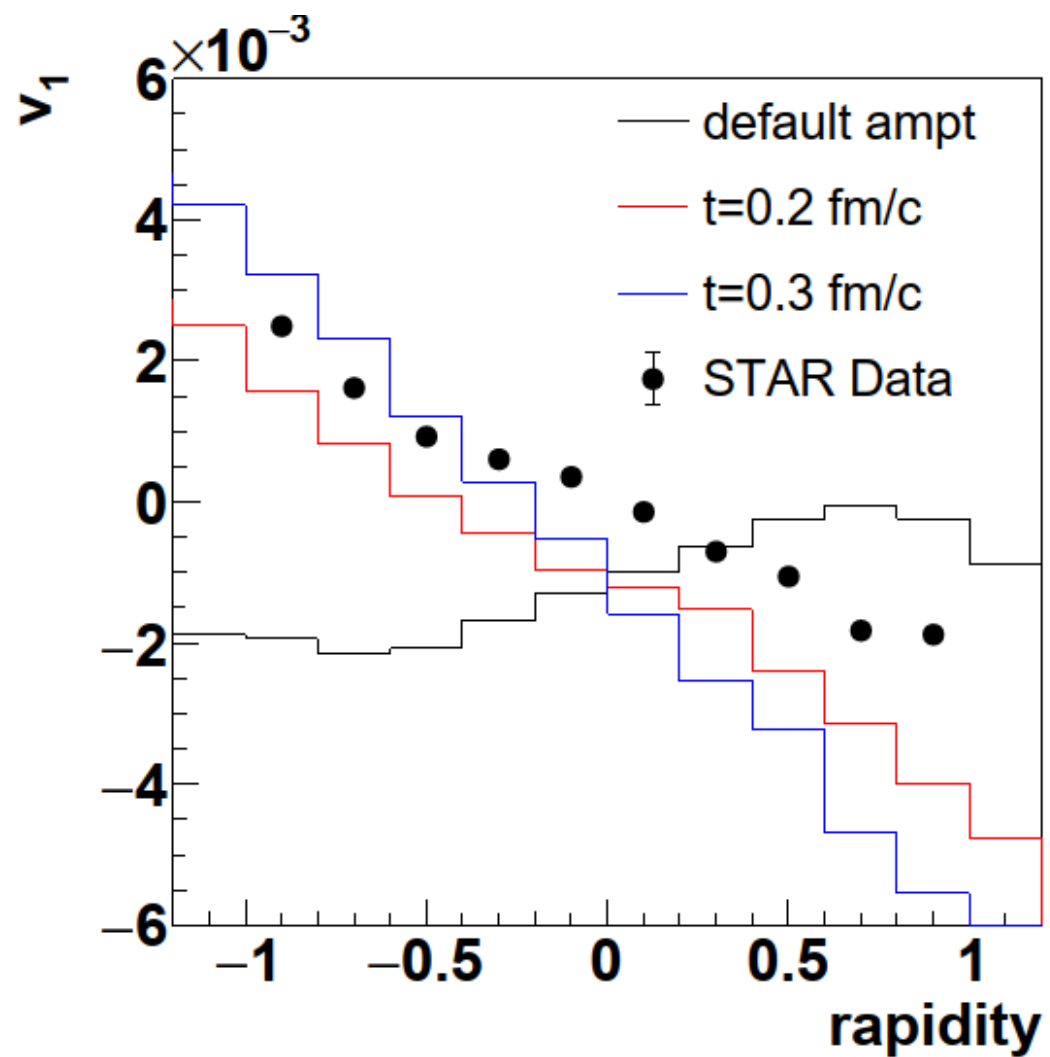
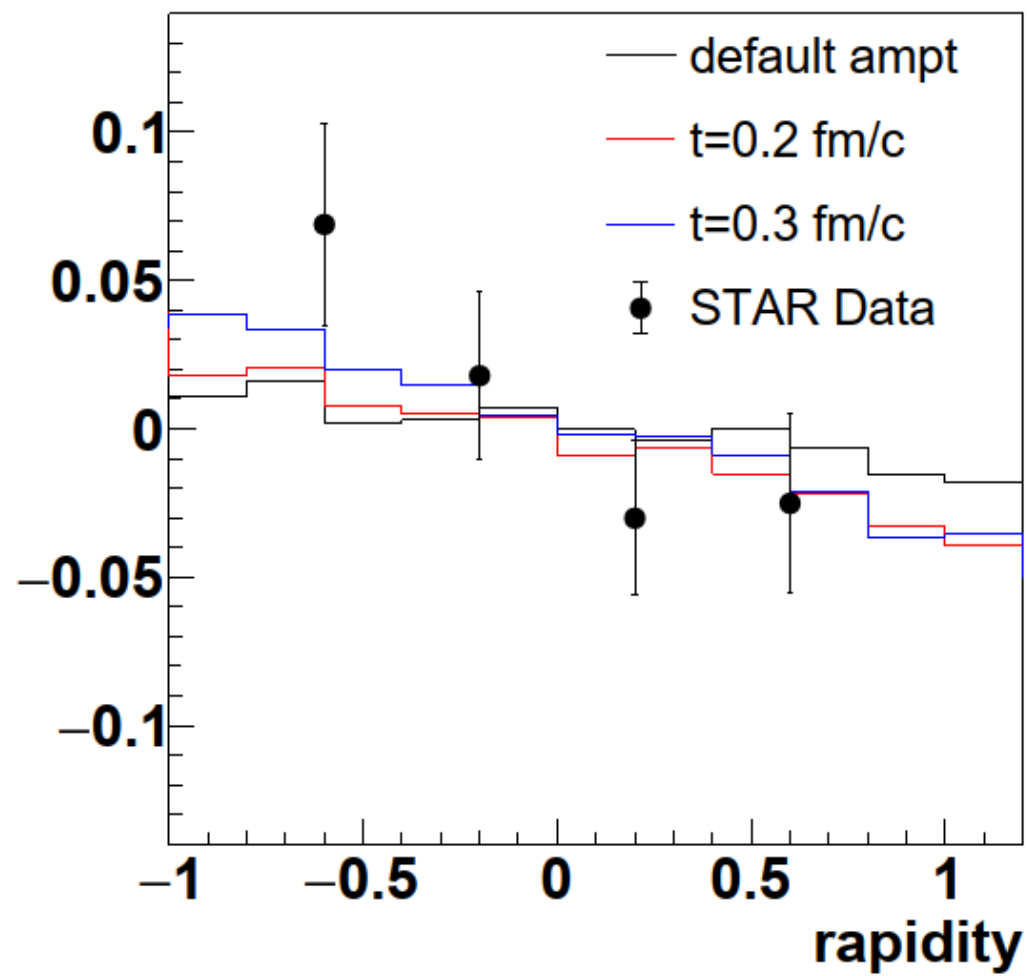
Effective Temperature in AMPT



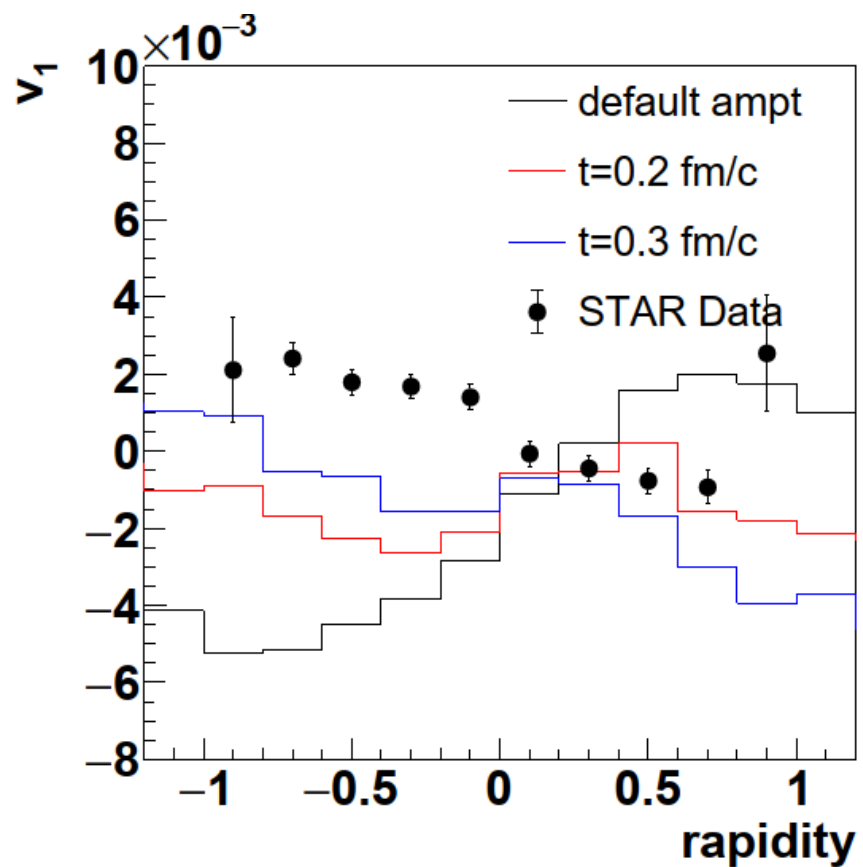
Initial Energy Density in AMPT



Pion

 D^0 

Kaon



Proton anti-Proton

