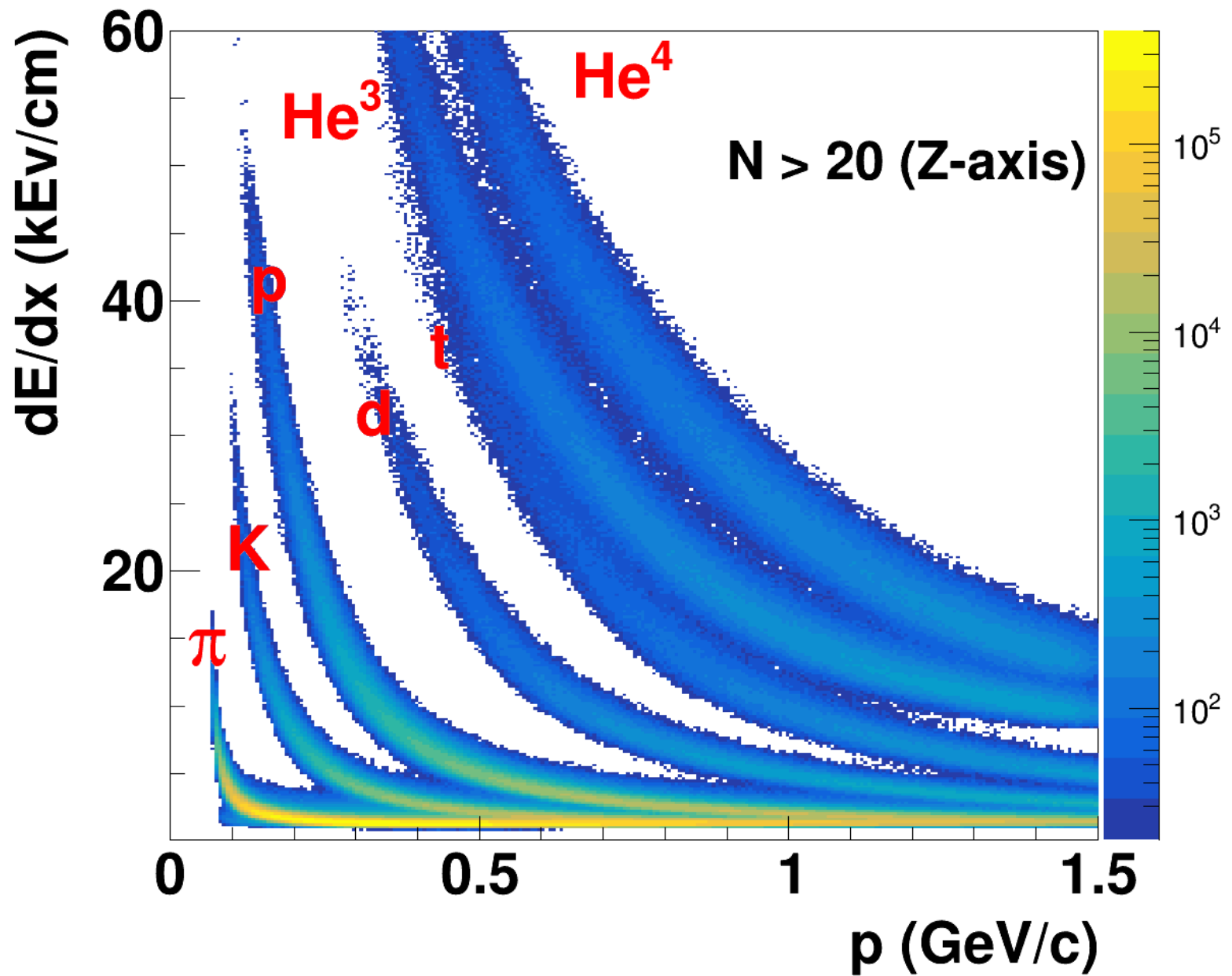


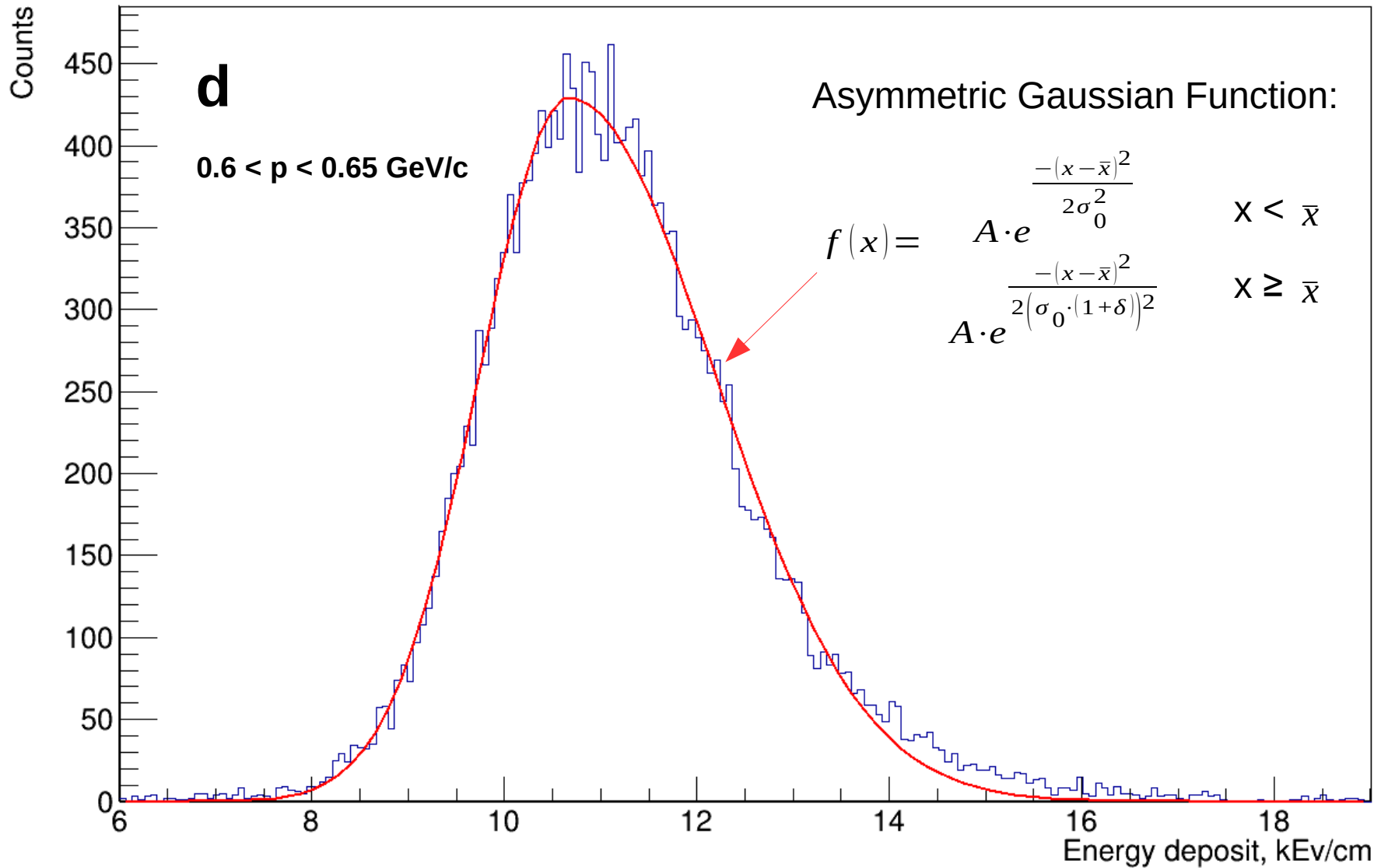
Data set

- **PHQMD simulation at 8.8 GeV (199k events) + BOX generator (10 *d*, 10 *t*, 10 *He*³ and 10 *He*⁴ per event)**
- **Primary Particles (via GEANT)**
- **$N_{\text{hits}} \geq 20$**
- **$|\eta| < 1.3$**

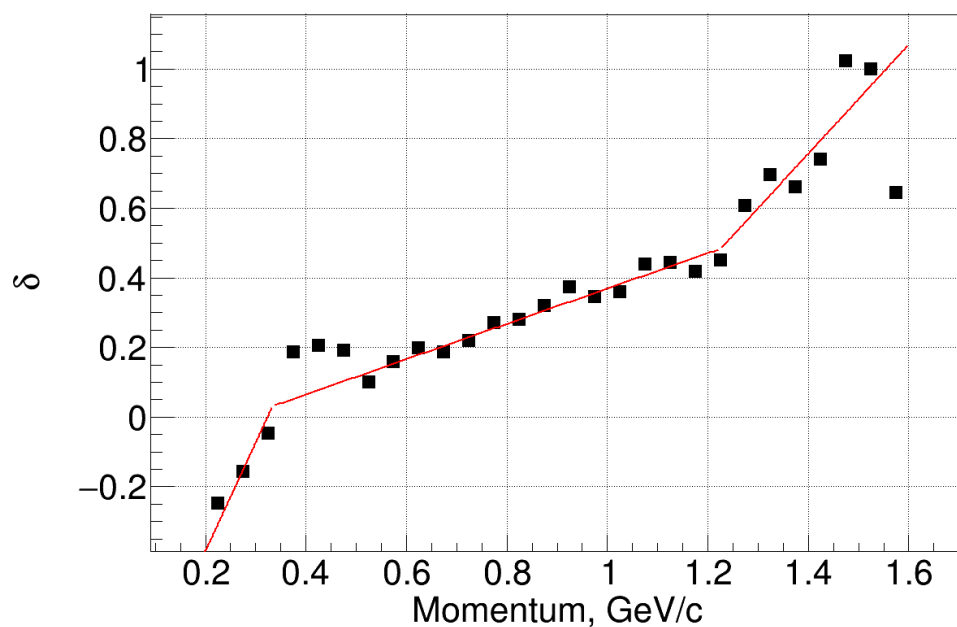
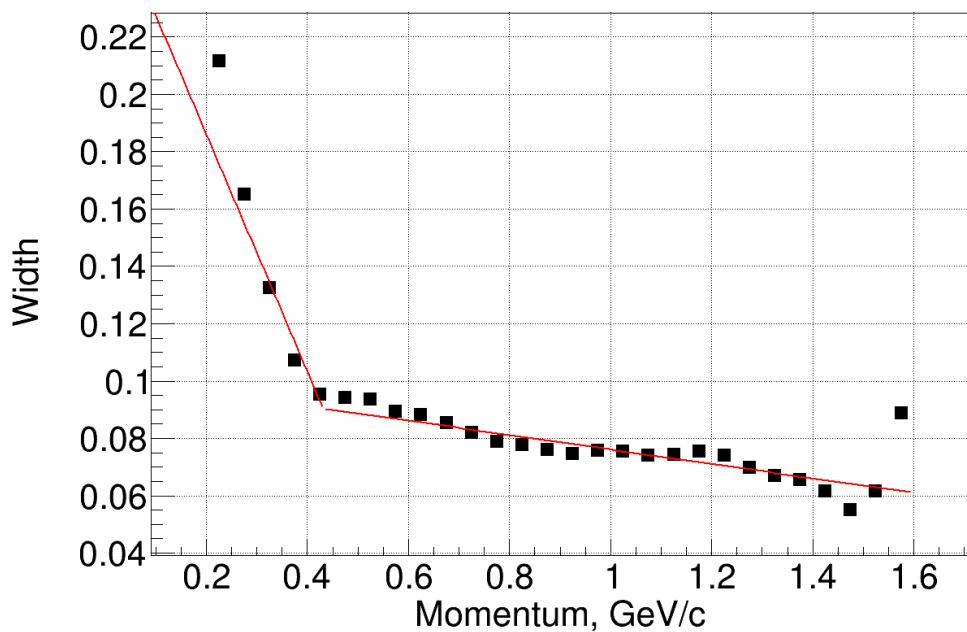
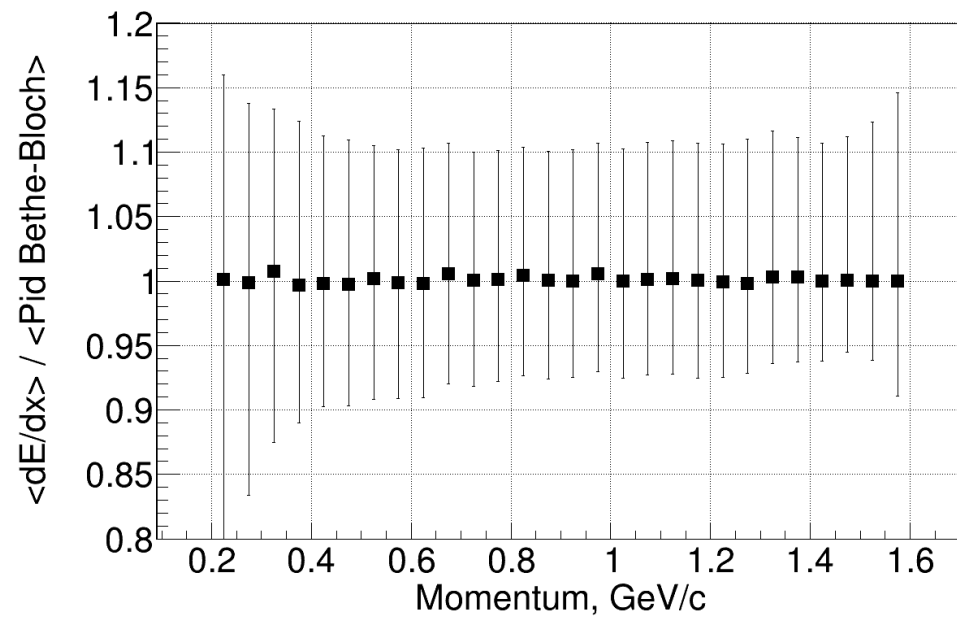
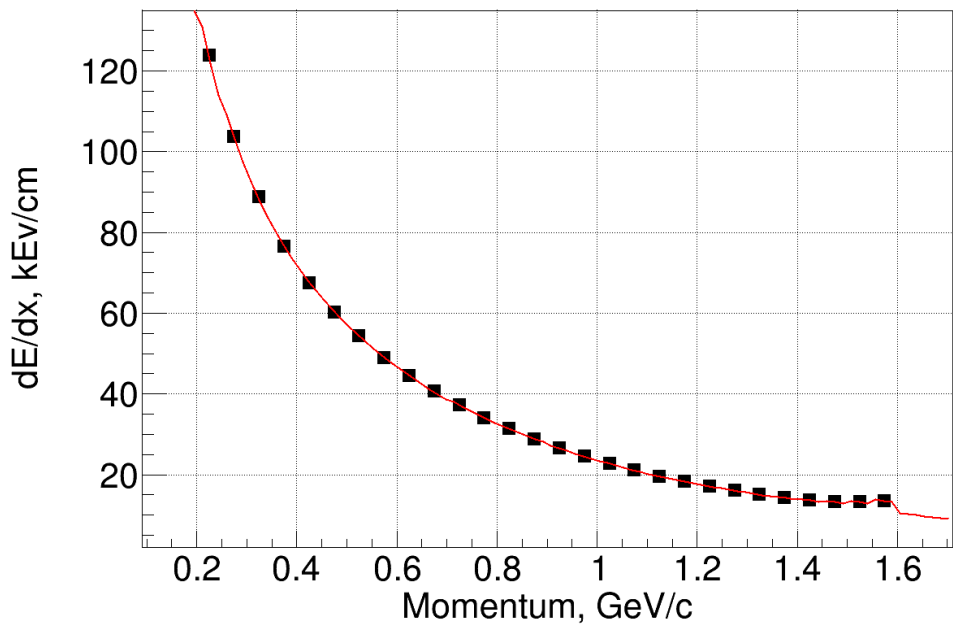
dE/dx VS p



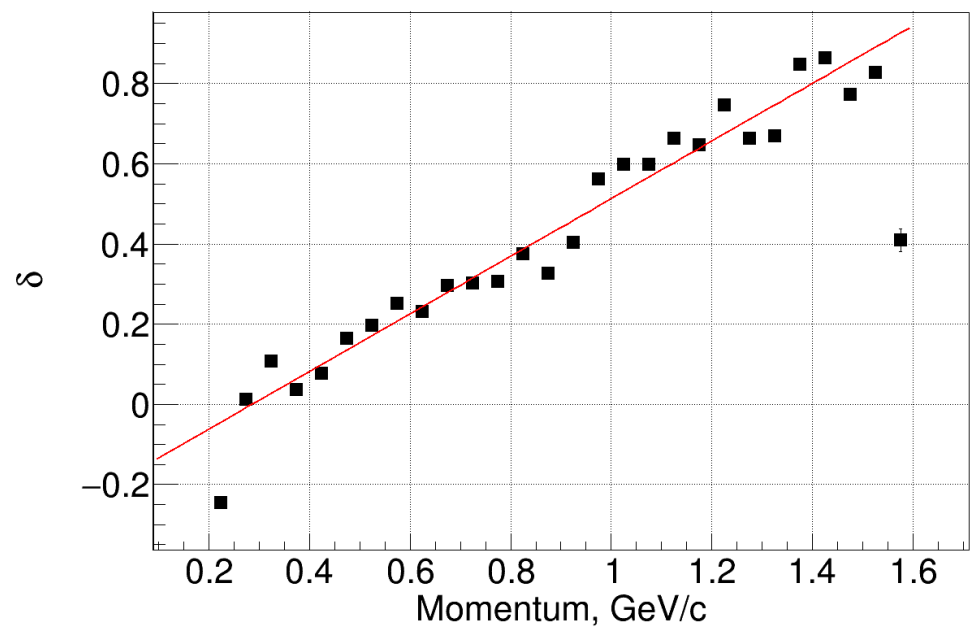
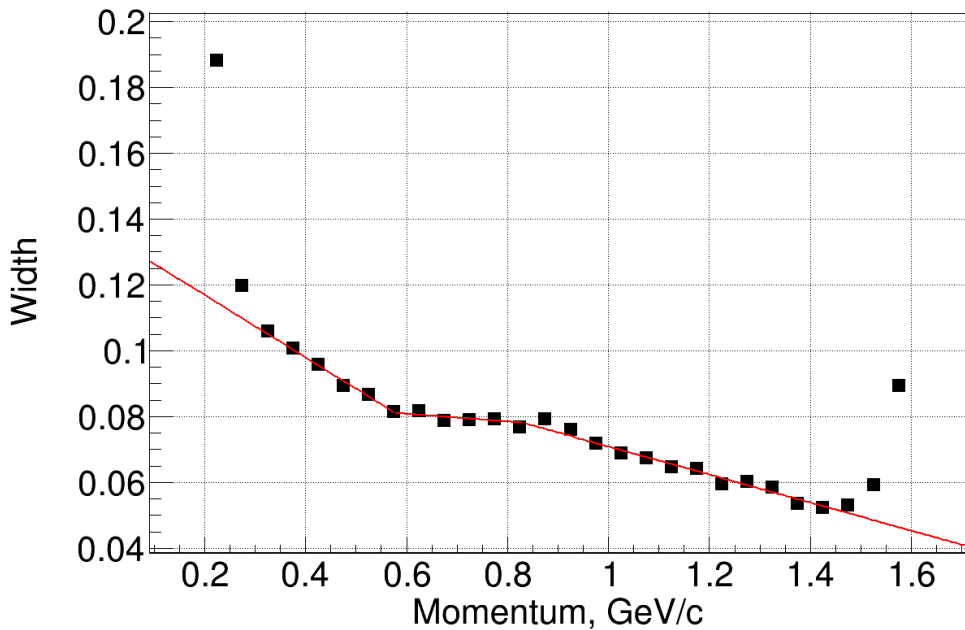
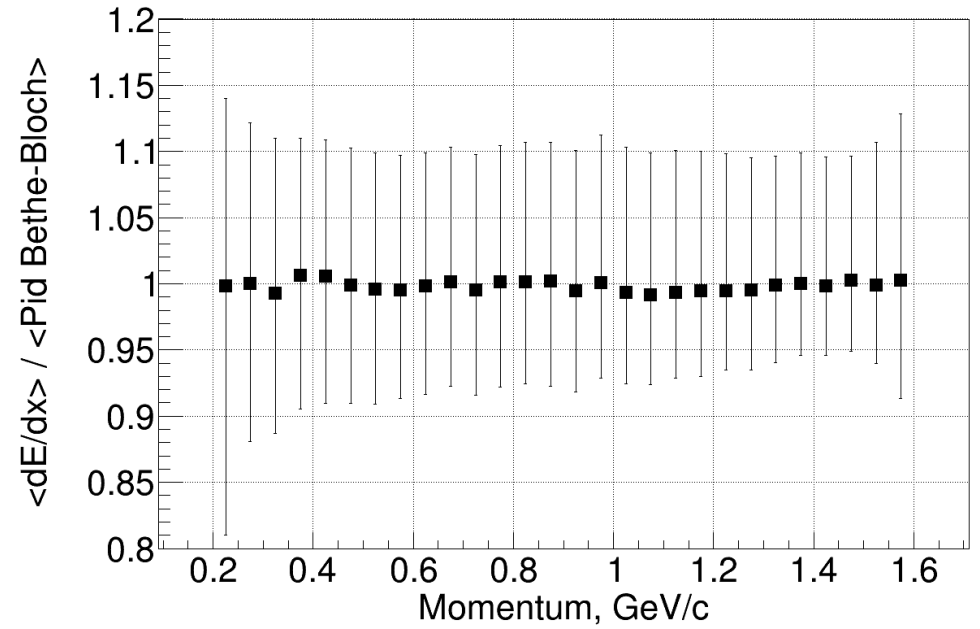
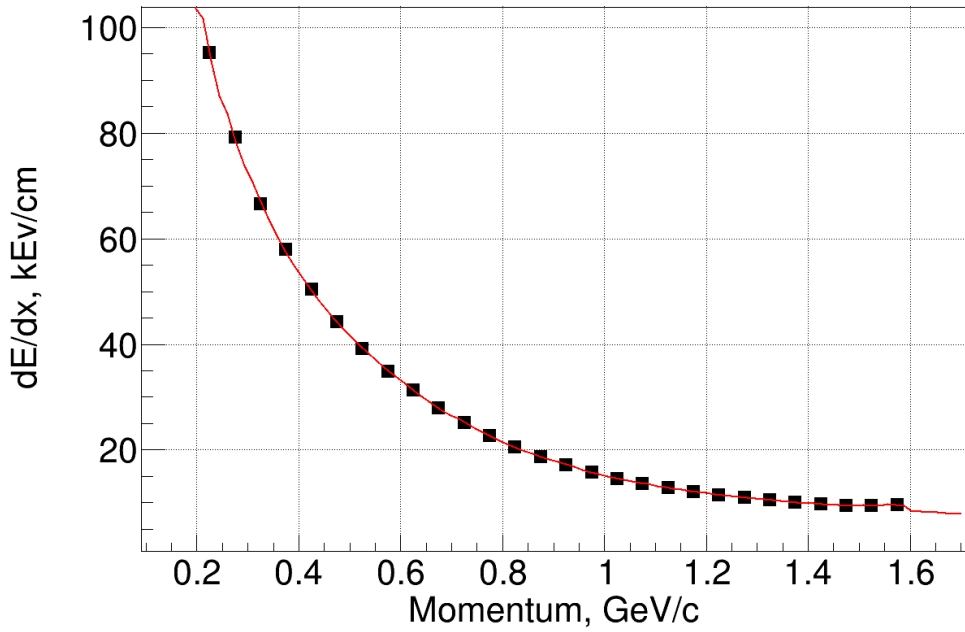
dE/dx VS p



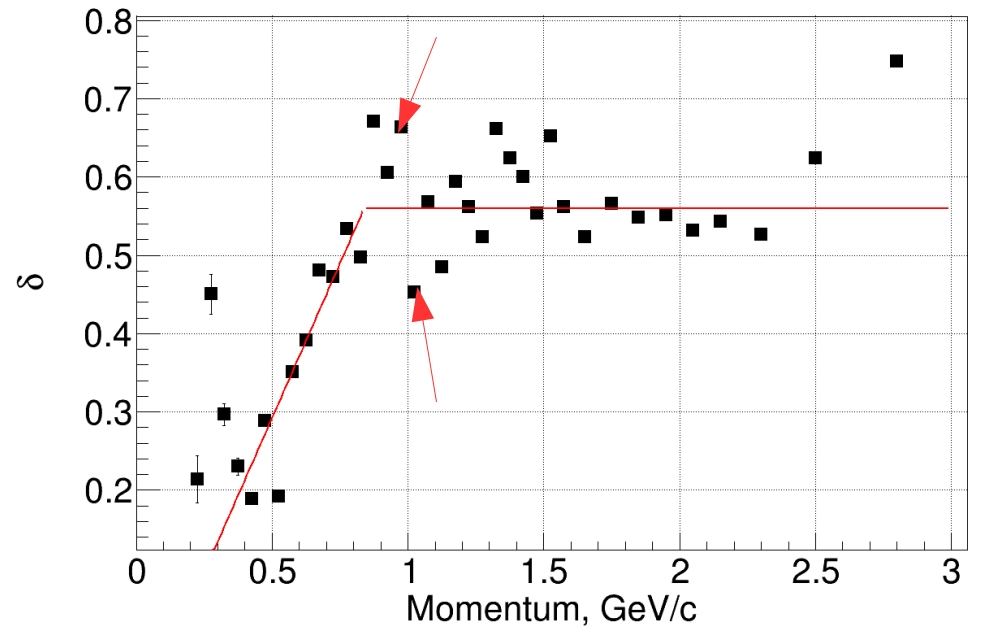
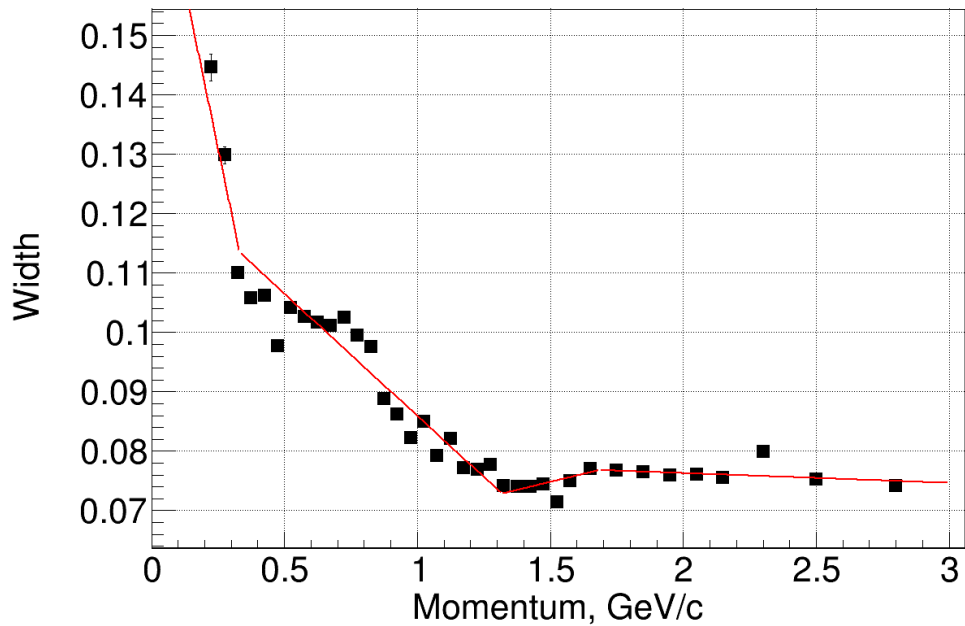
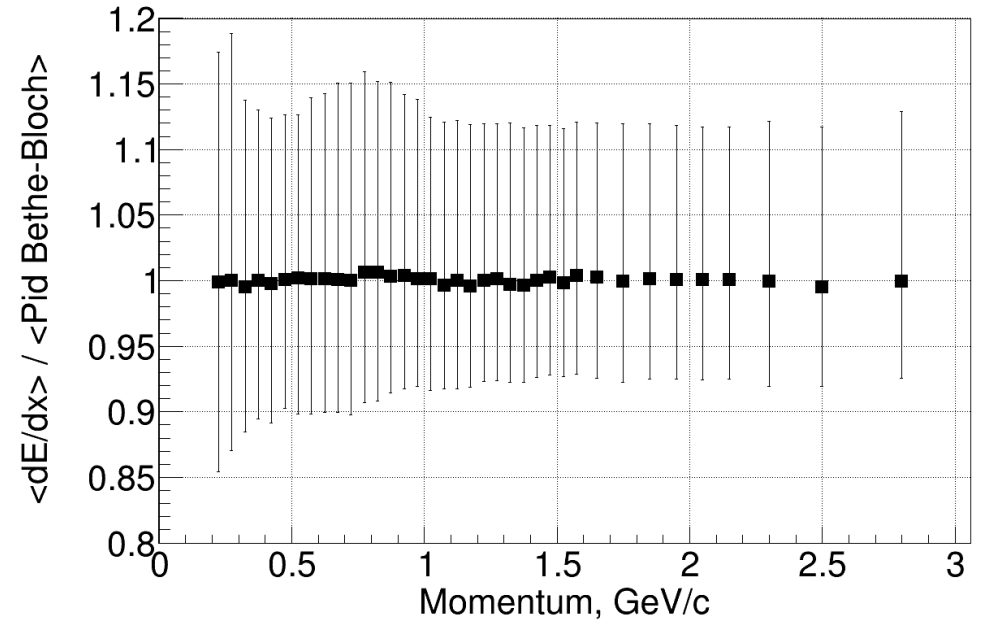
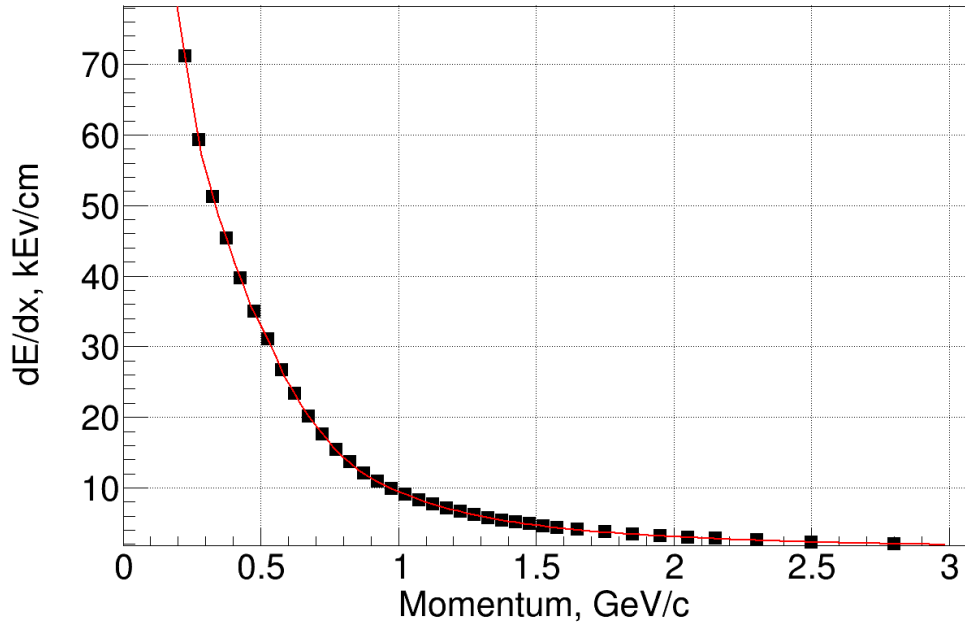
He⁴



He³

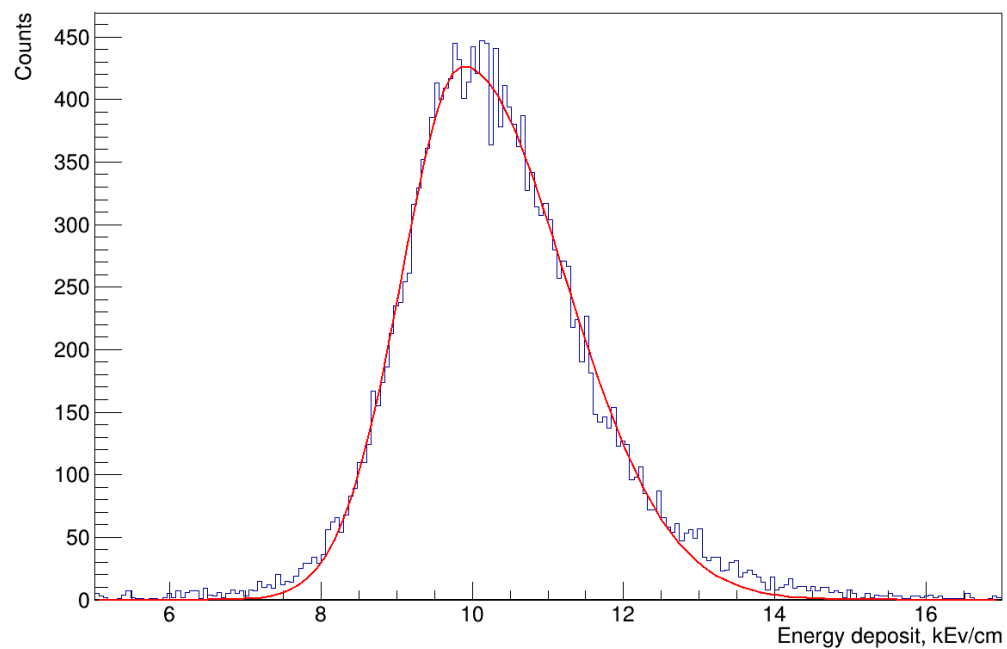


Tritons

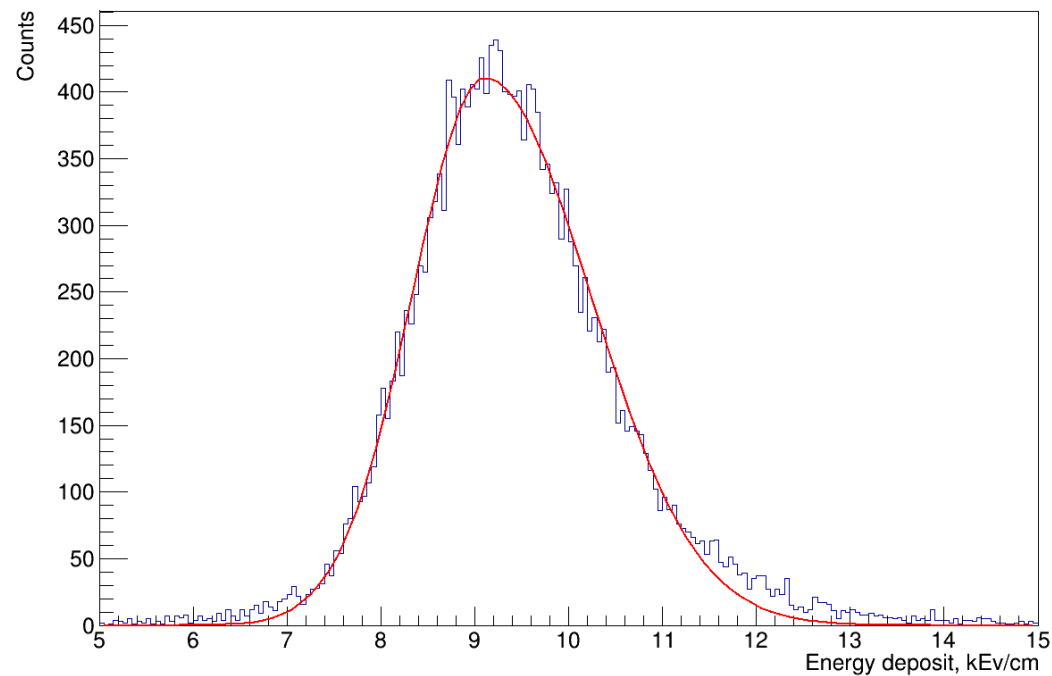


Tritons

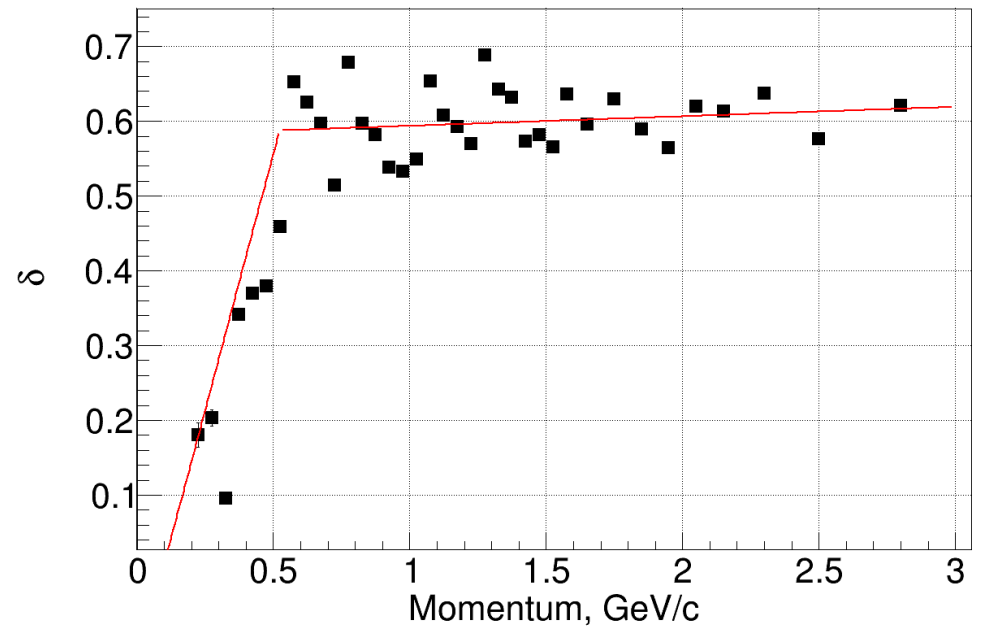
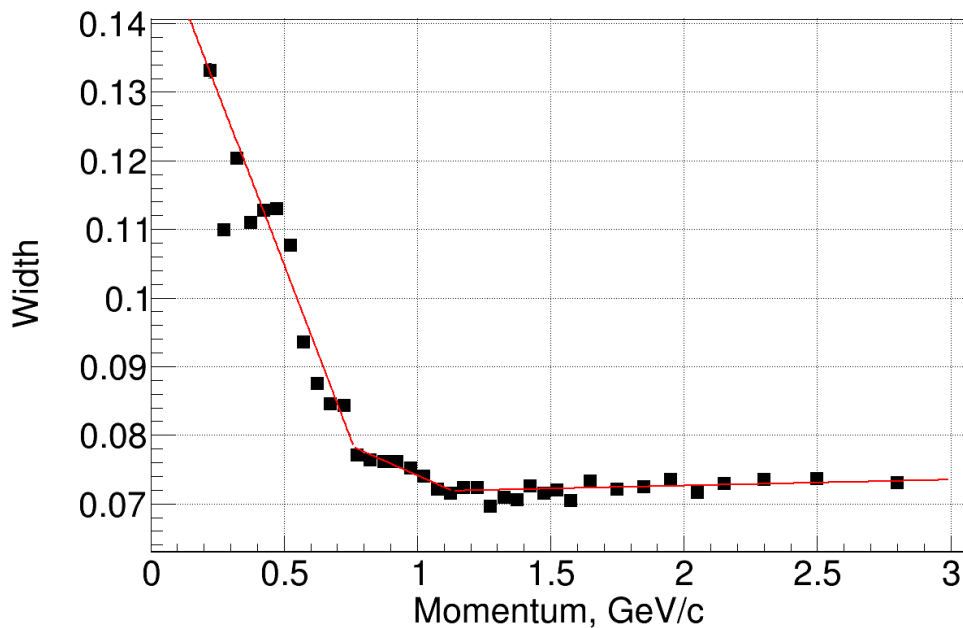
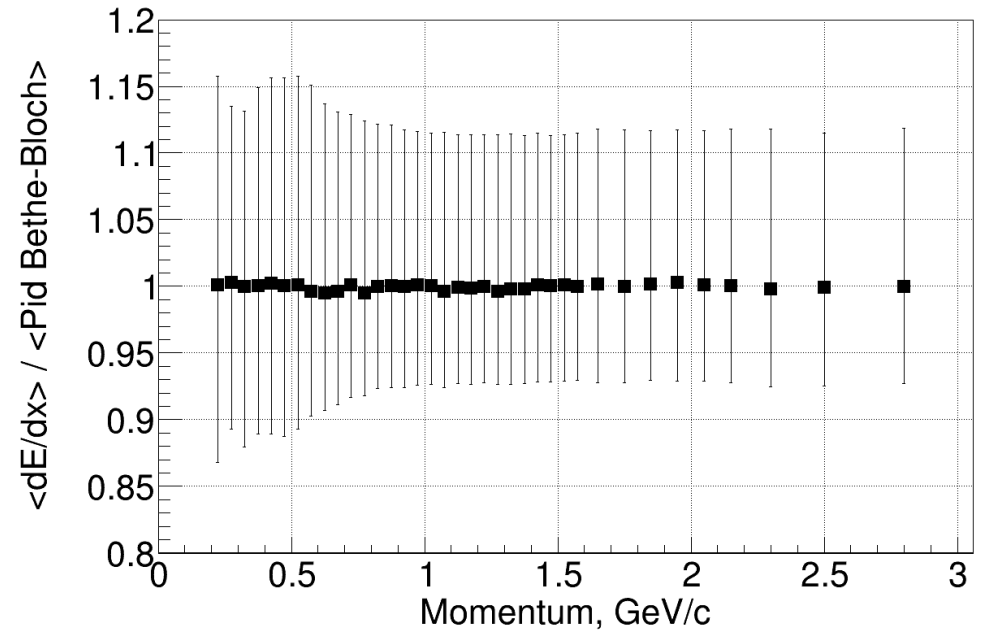
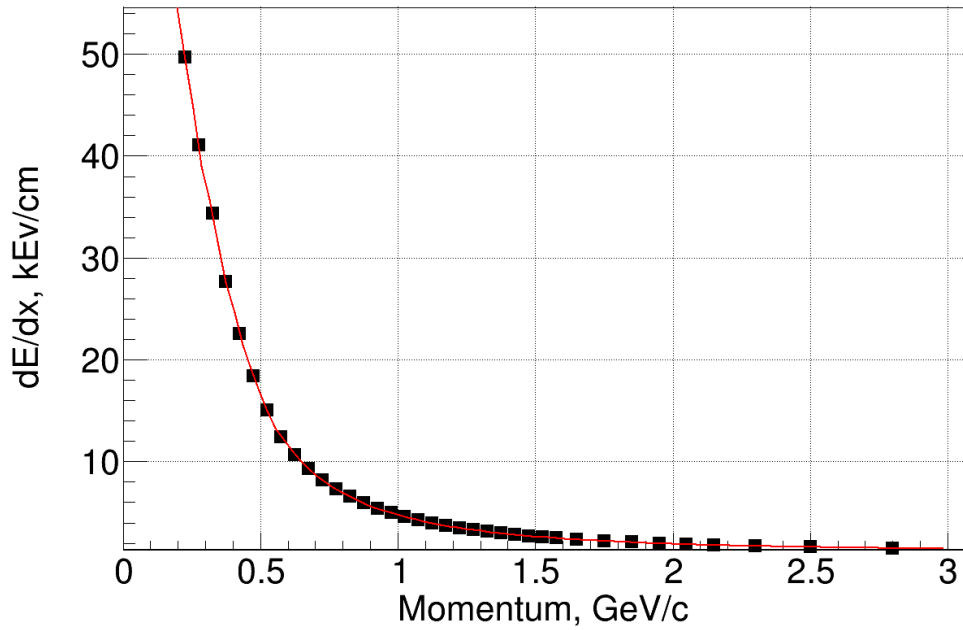
$0.95 < p < 1.00$ GeV/c



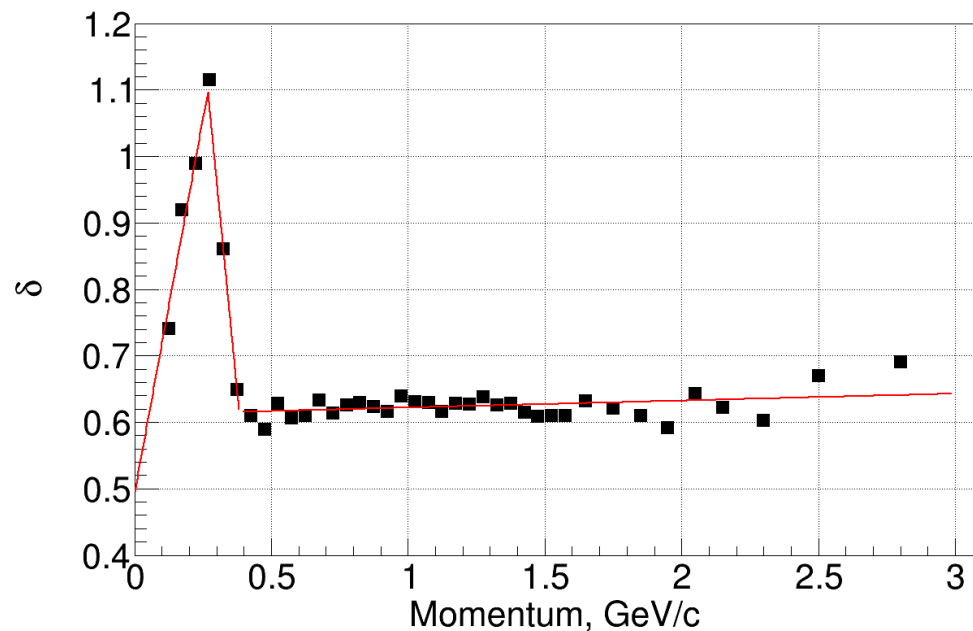
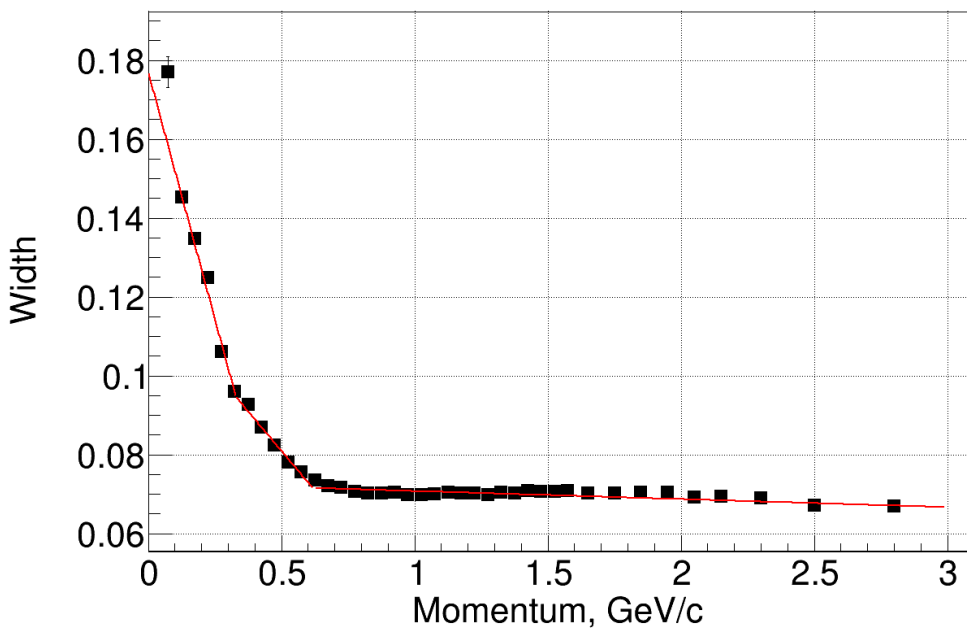
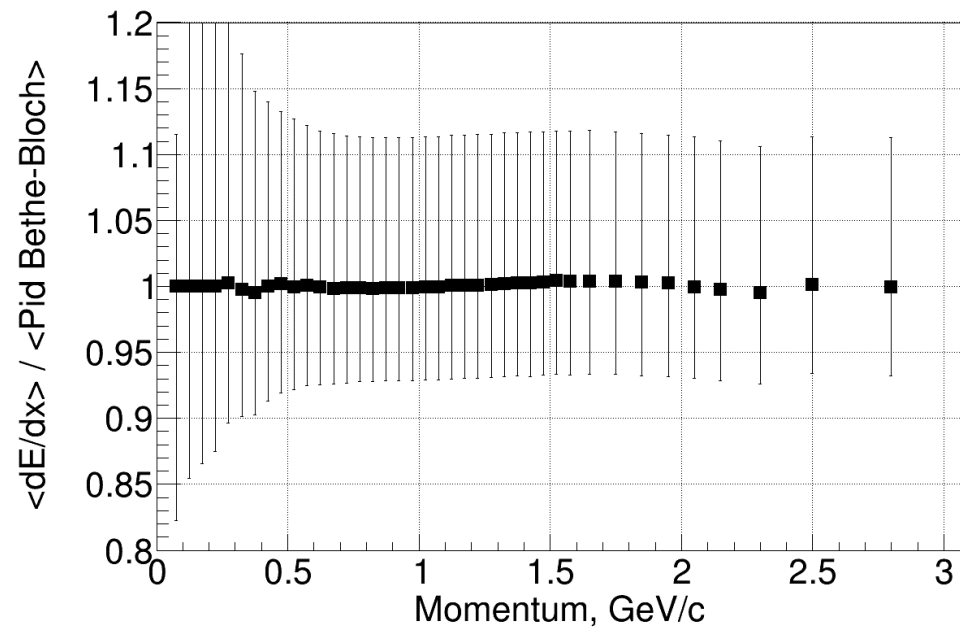
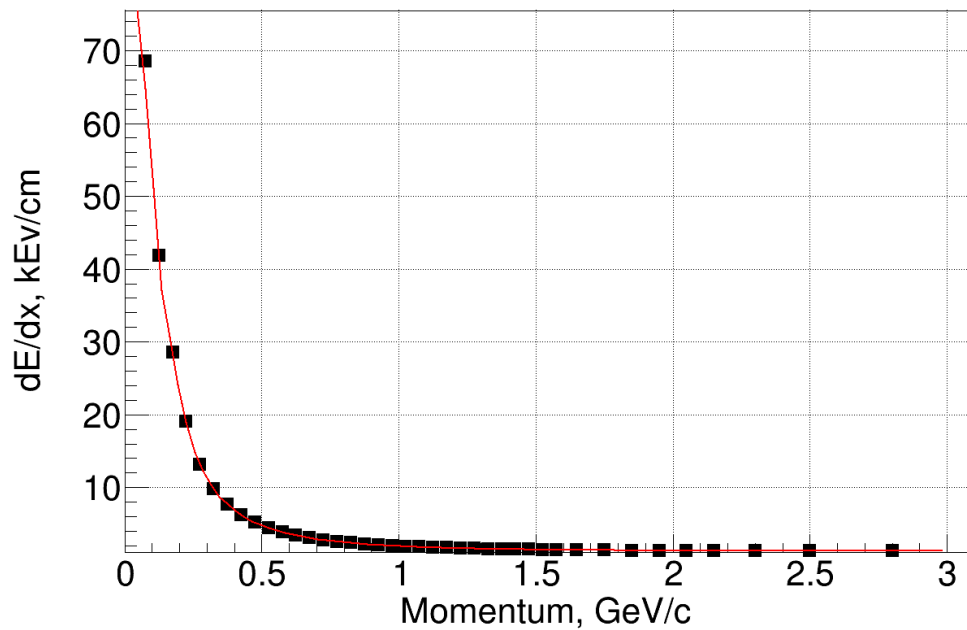
$1.00 < p < 1.05$ GeV/c



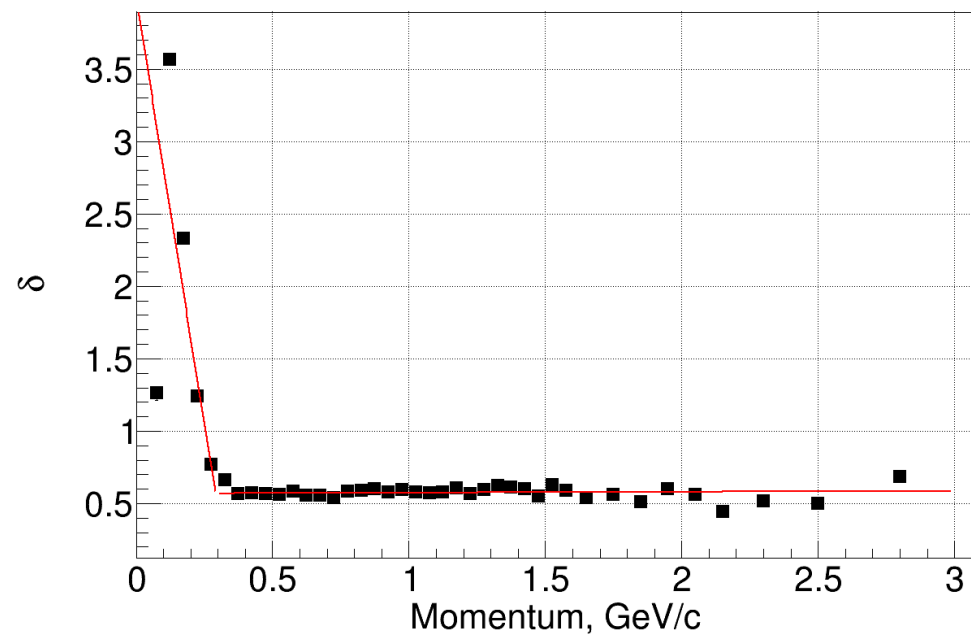
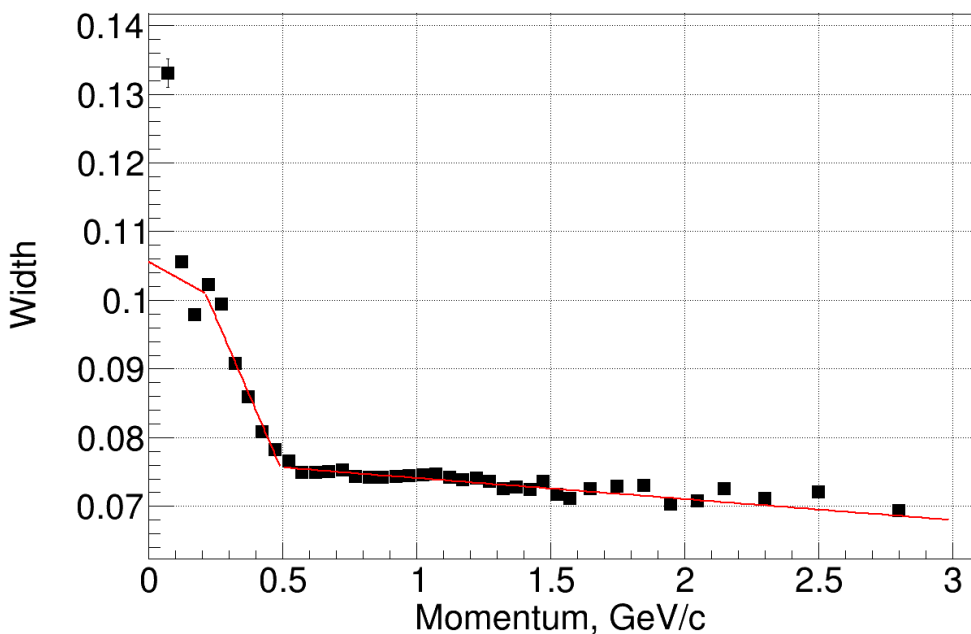
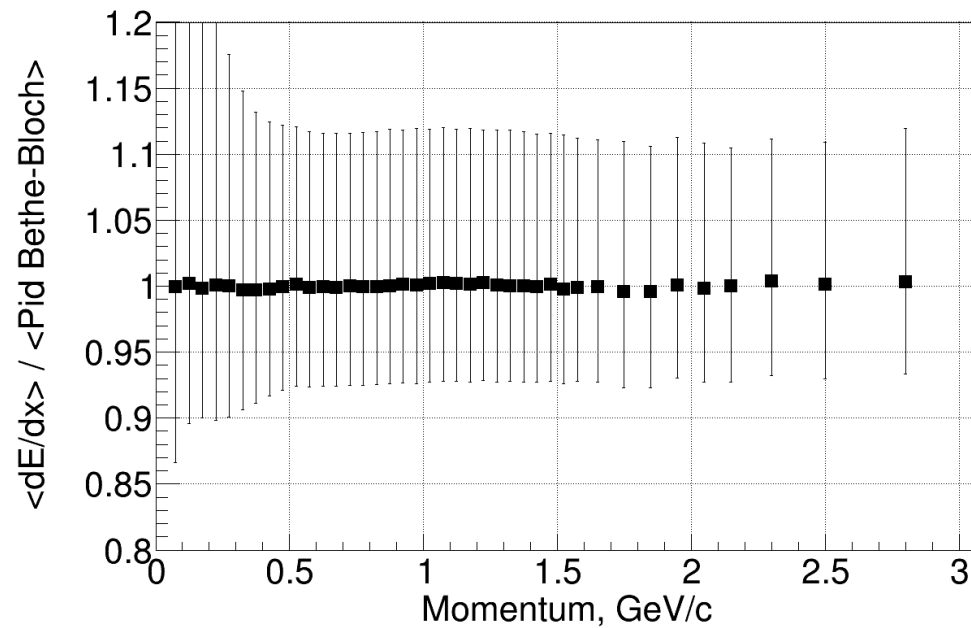
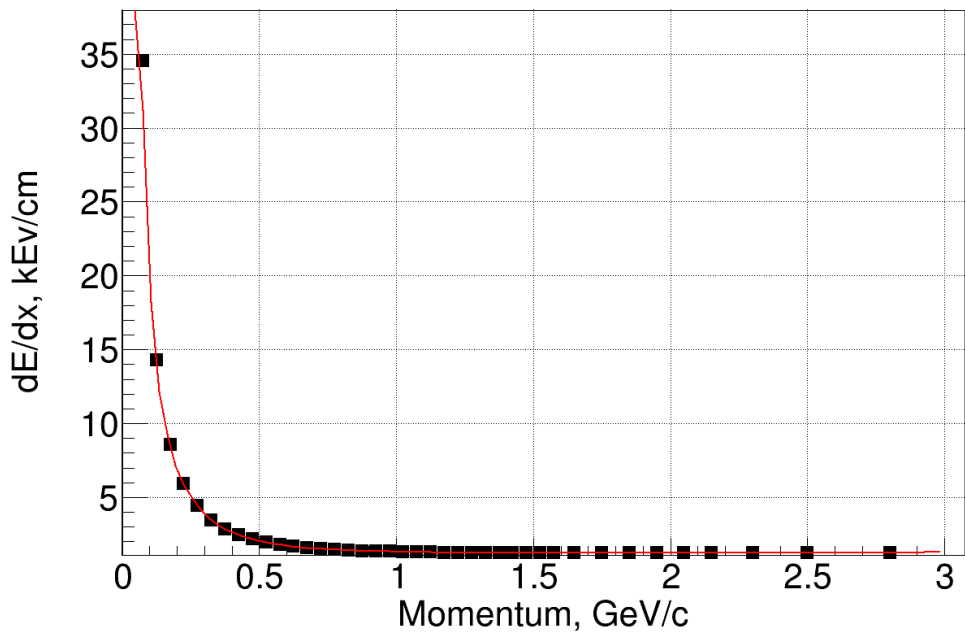
Deuterons



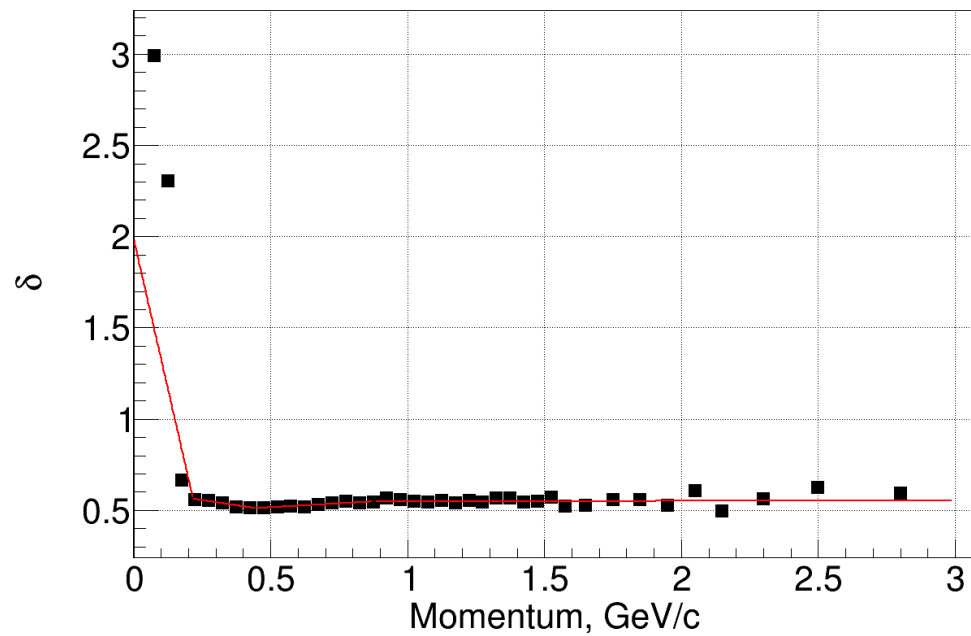
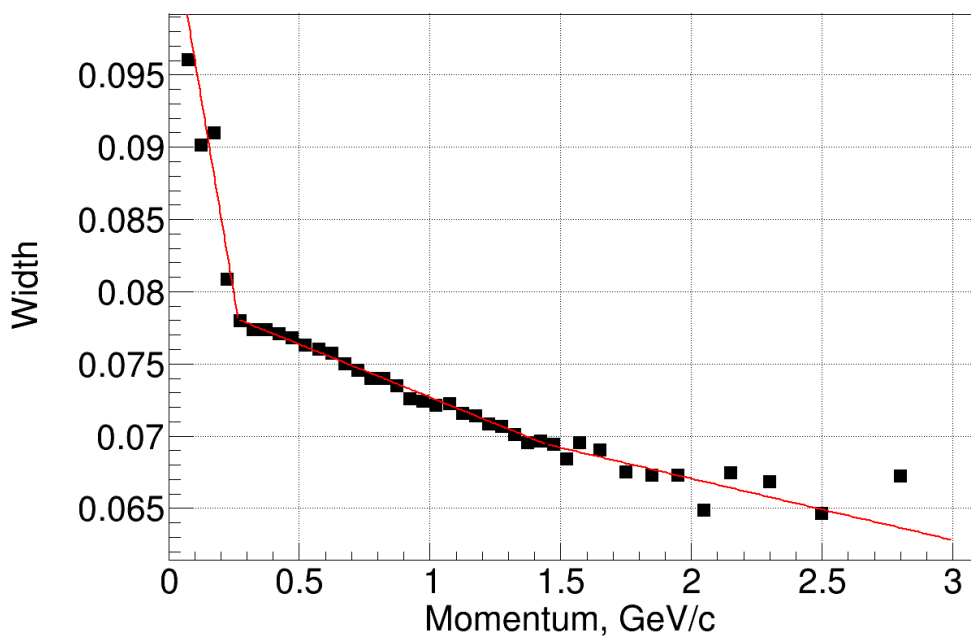
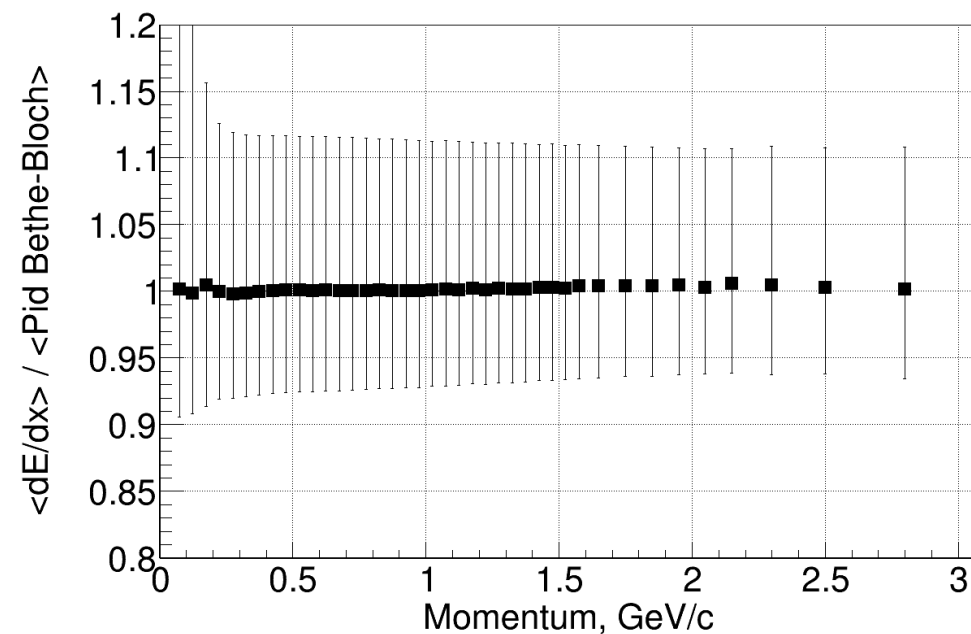
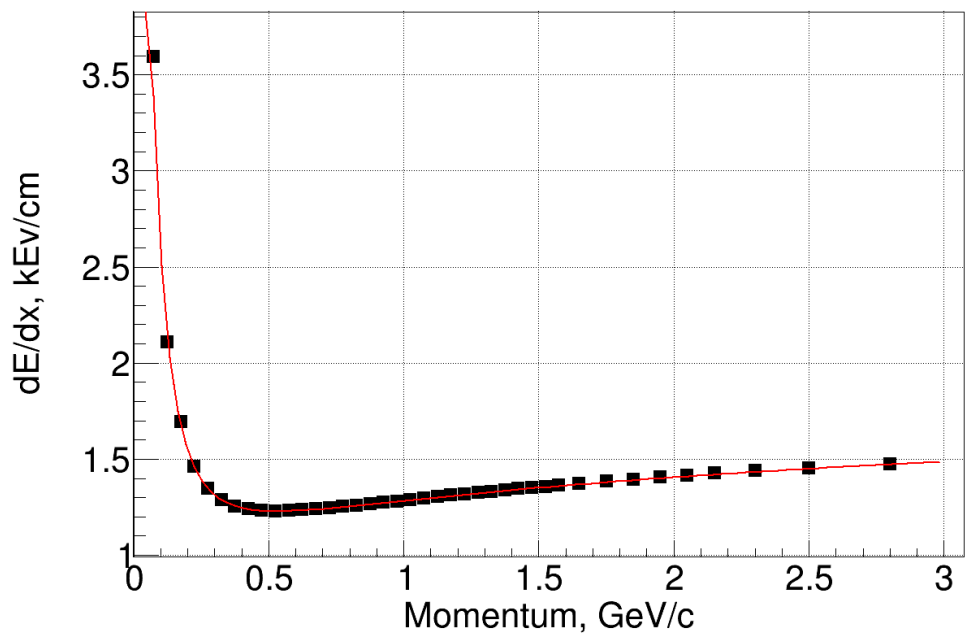
(anti)protons



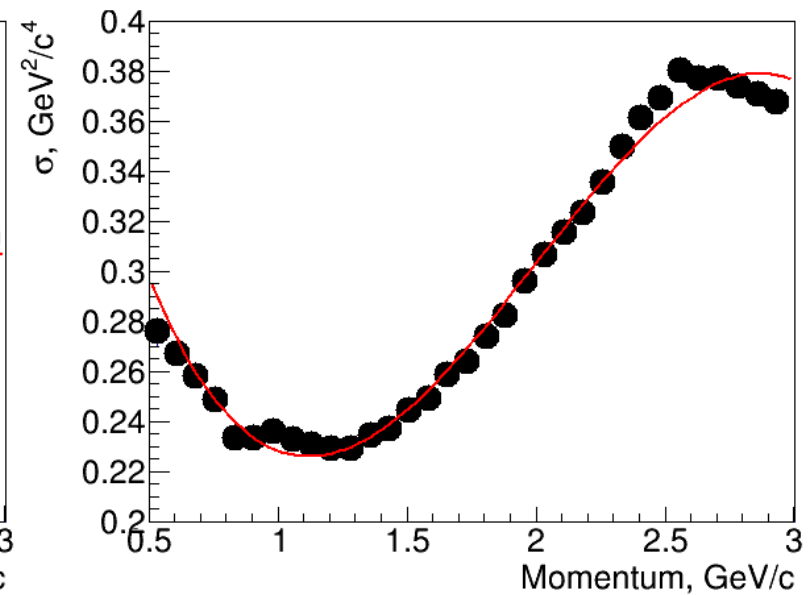
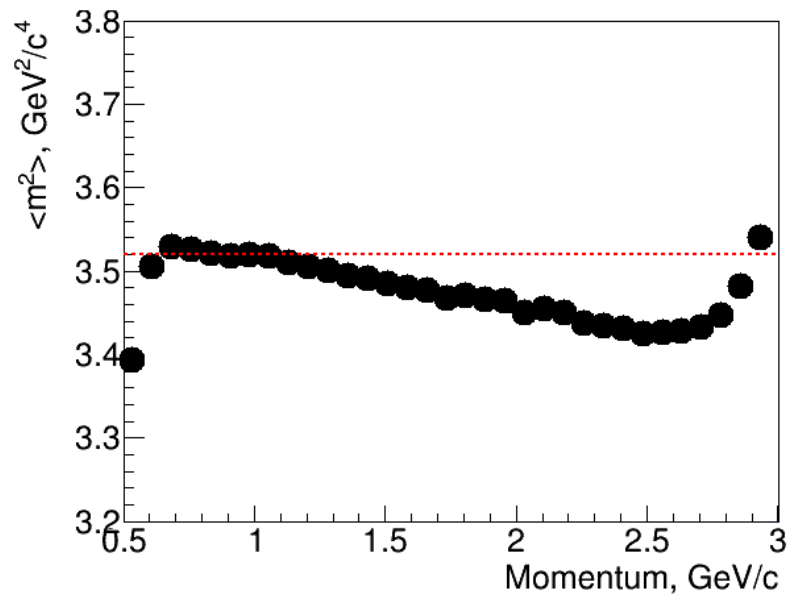
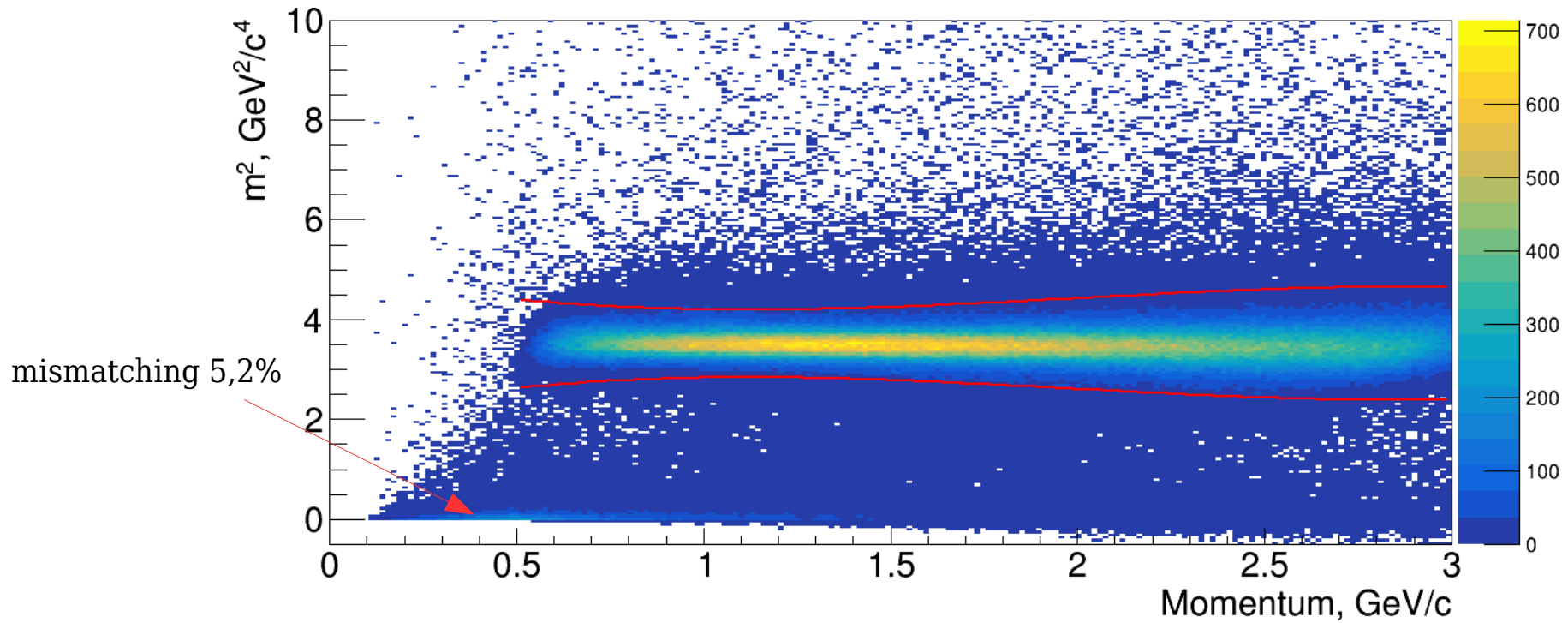
kaons



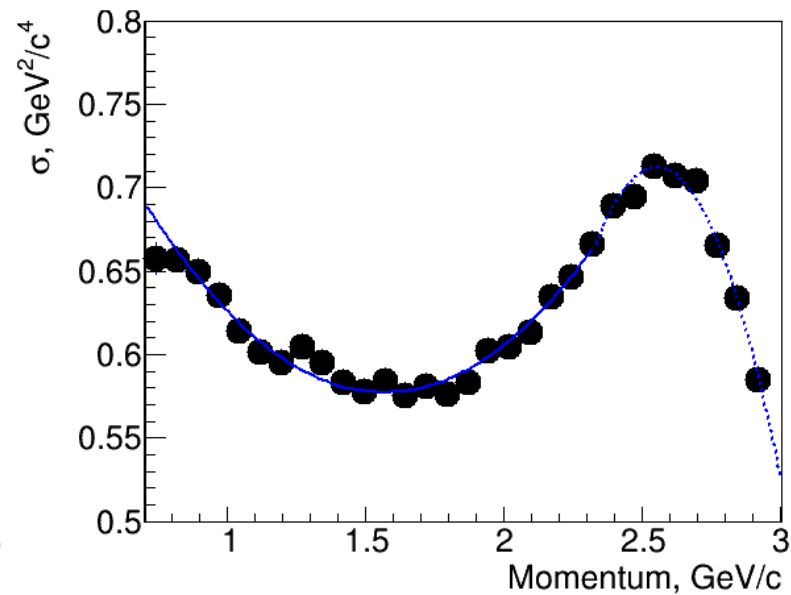
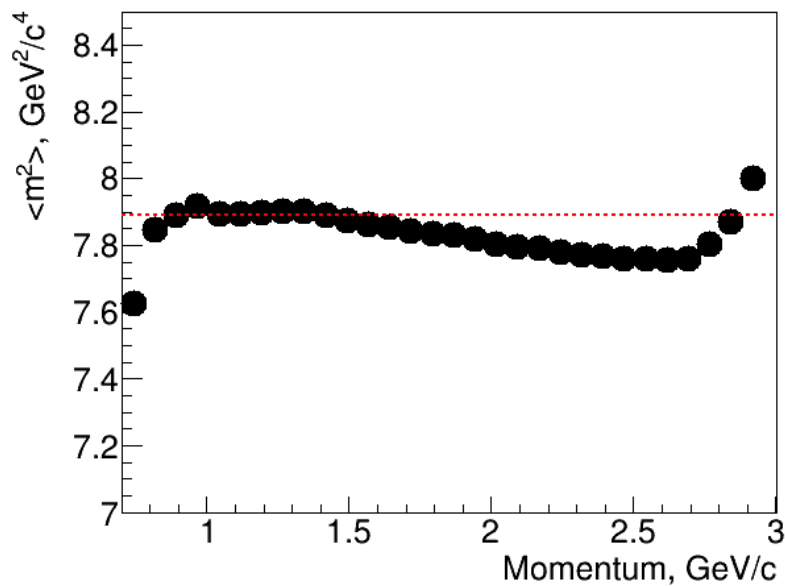
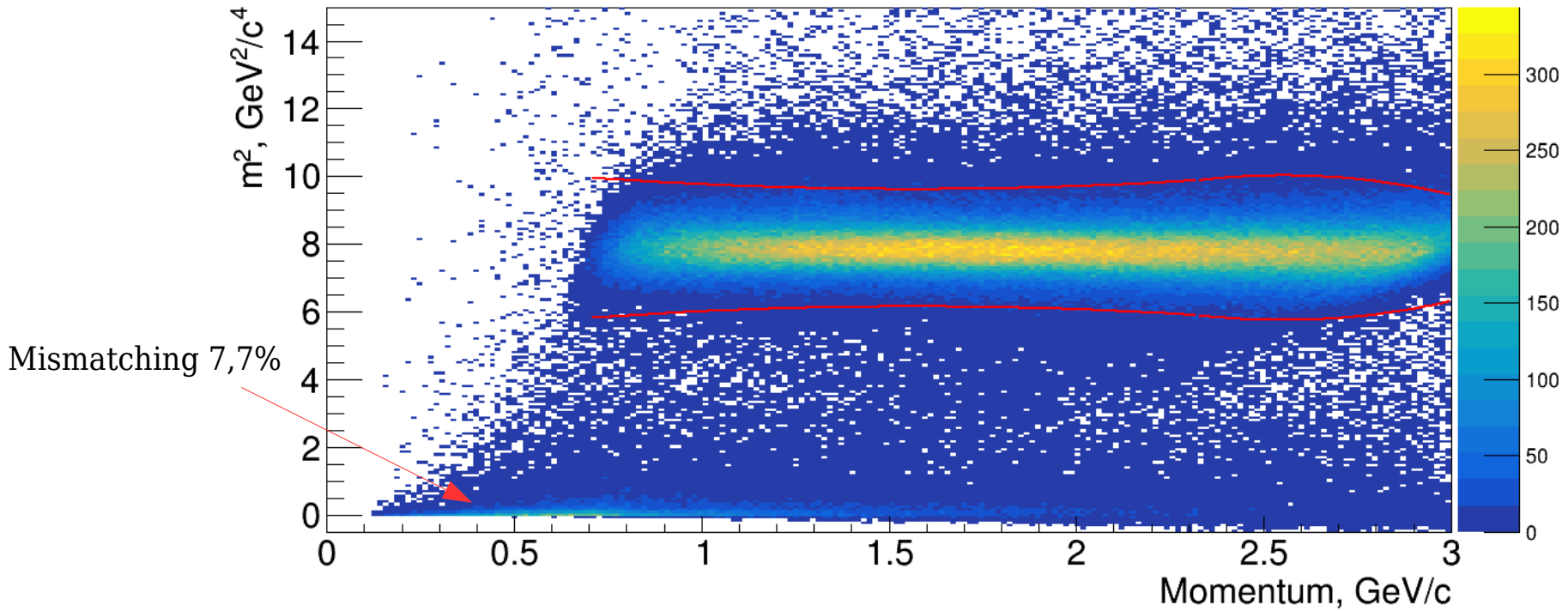
pions



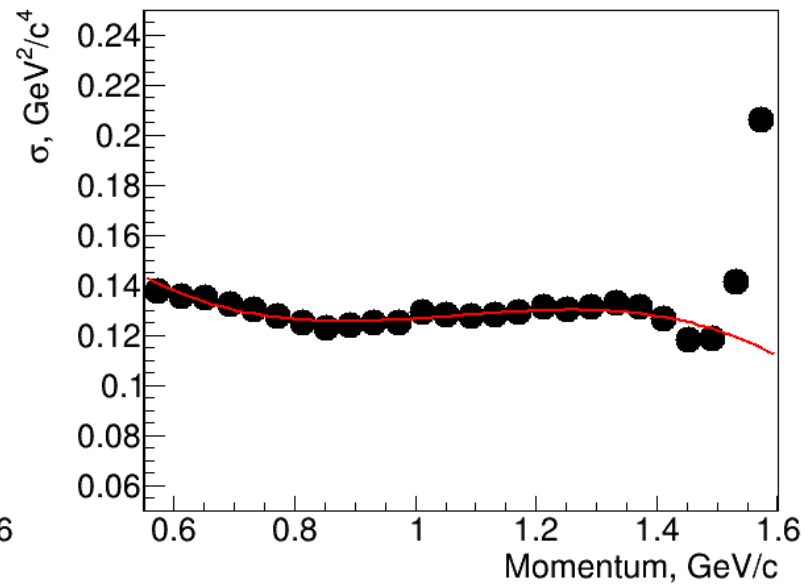
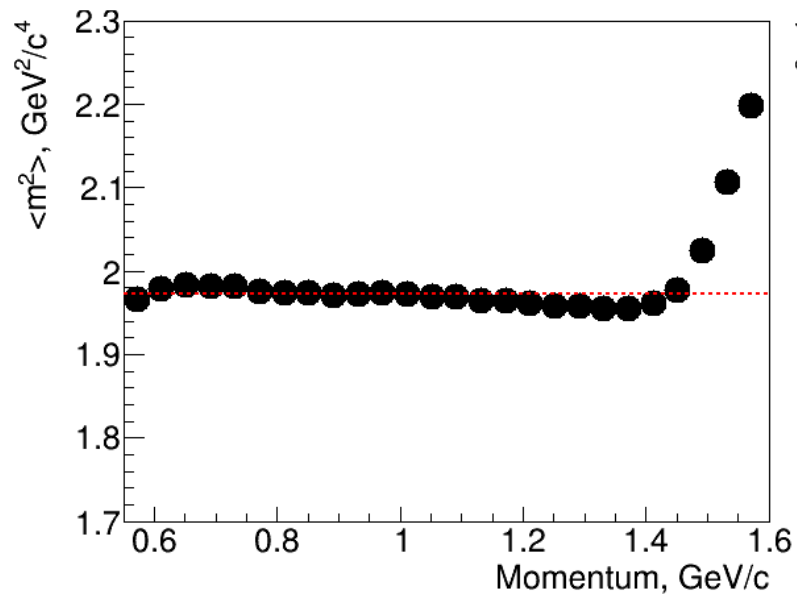
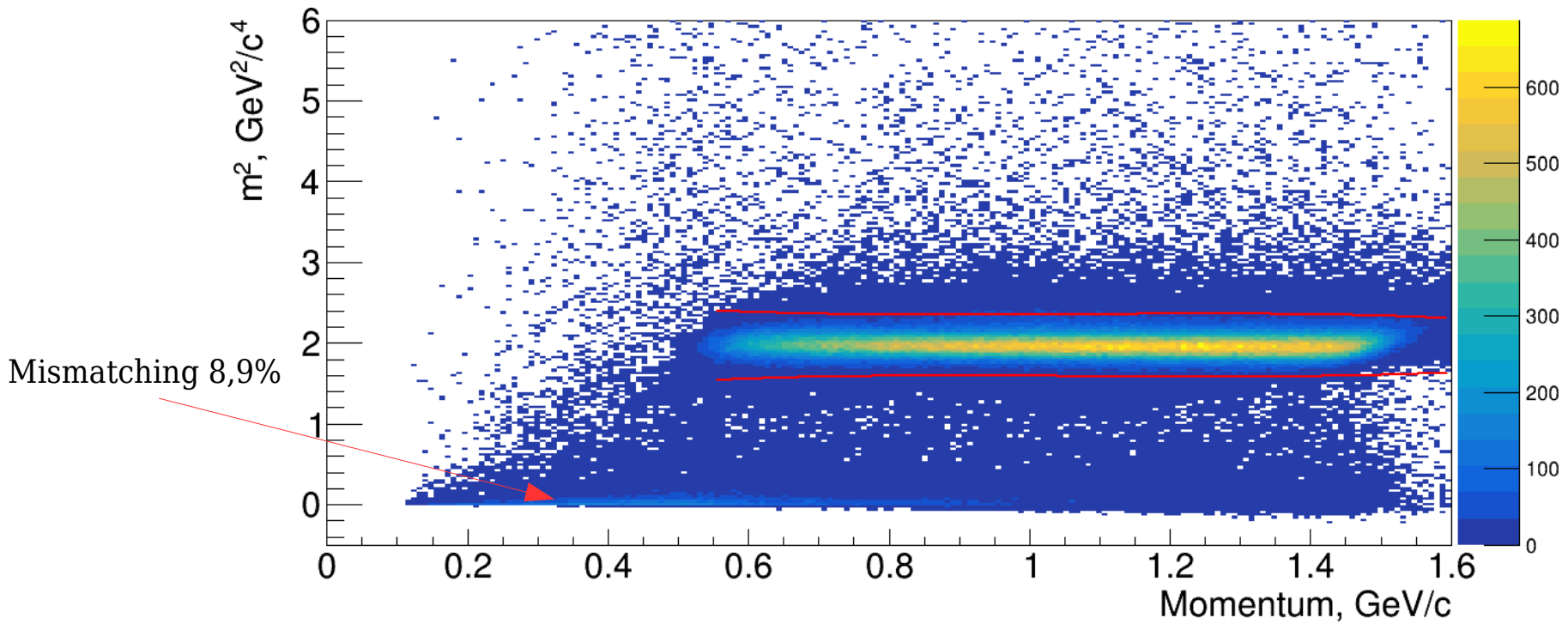
m^2 (deuterons)



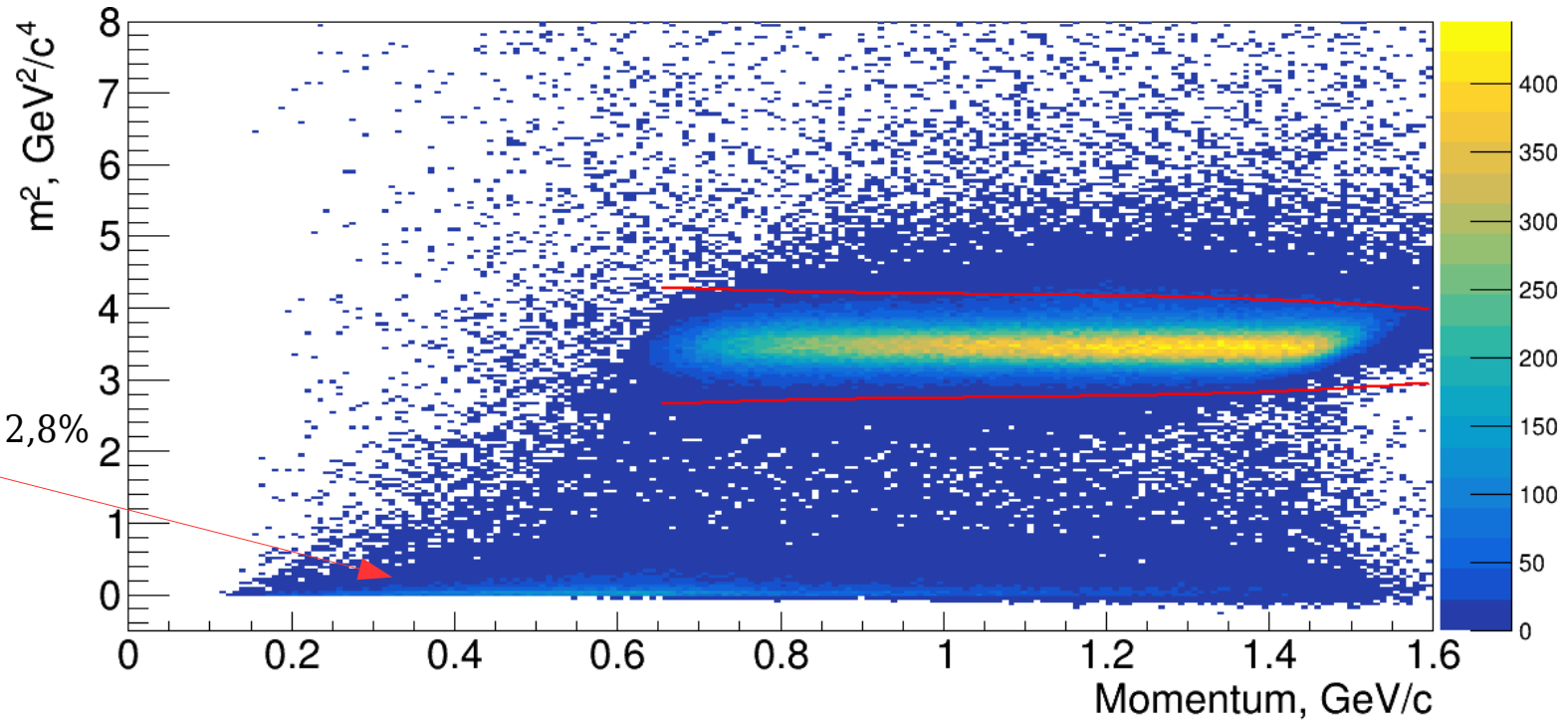
m^2 (tritons)



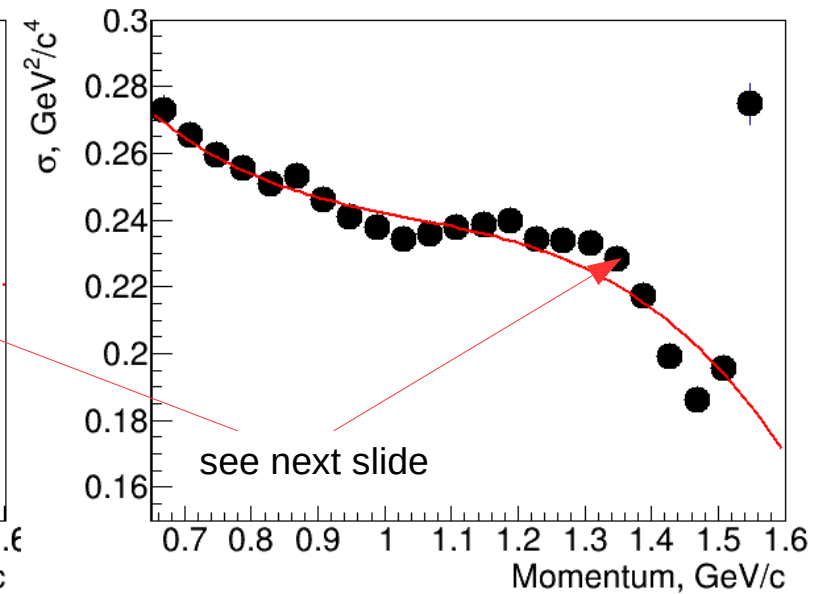
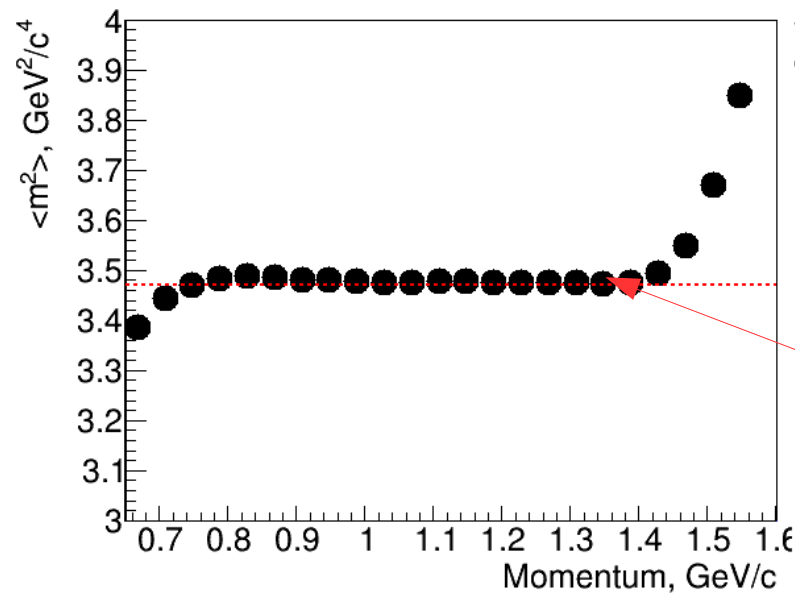
m^2 (He^3)



m^2 (He^4)

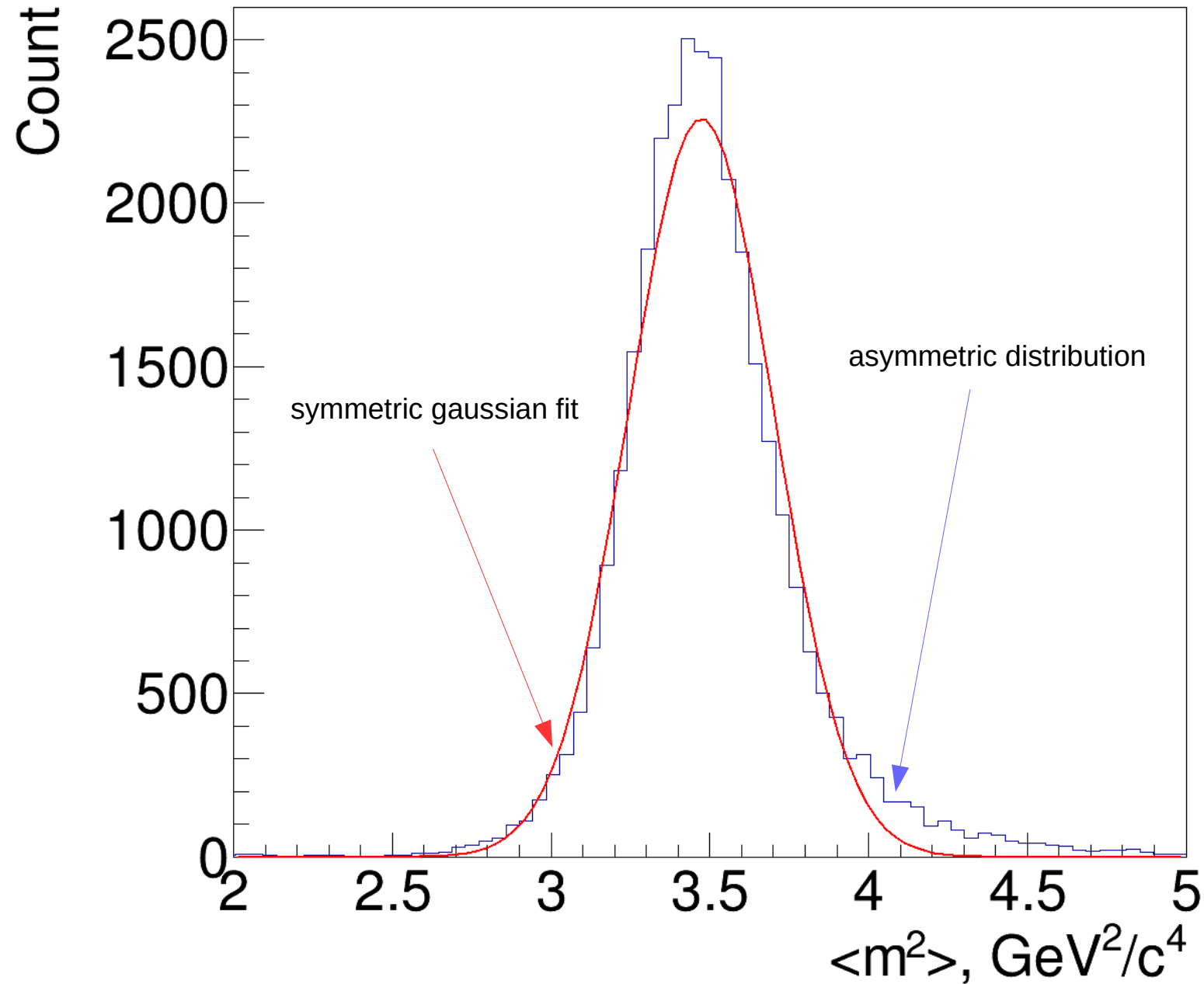


Mismatching 12,8%



see next slide

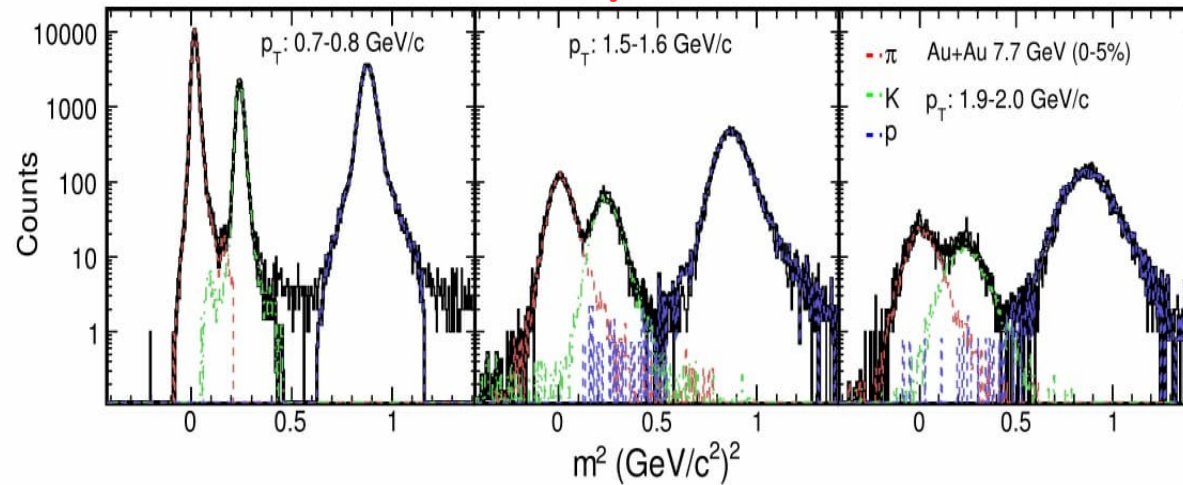
m^2 -projection (He^4)



m^2 -resolution (hadrons)

STAR

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The m^2 distributions for positively charged hadrons used to extract raw yields for pions, kaons, and protons in $|y| < 0.1$ for Au+Au collisions at 7.7 GeV at three different p_T ranges. The curves are predicted m^2 fits representing contributions from pions (dashed-red), kaons (dashed-green), and protons (dashed-blue).

MPD

