

Embedding QA

embedding + real

Color code for embedding and real data

———— MC (black)

———— Reconstructed embedding tracks* (red)

———— Real** (blue)

* matched pairs or contaminated pairs

** black is also used, see legend for each pad

Event & track selections

*** Event selections

z-vertex cut : $|v_z| < 220.0$ cm

trigger id cut : id = 720000

NOTE: Trigger id cut for real data has to be made manually in doEmbeddingQAMaker.C

*** Track selections

$0.0 < p_T < 5.0$ GeV/c

$|\eta| < 10.00$

$|y| < 2.20$

nHitsFit > 10

nHitsFit/nHitsPoss > 0.51

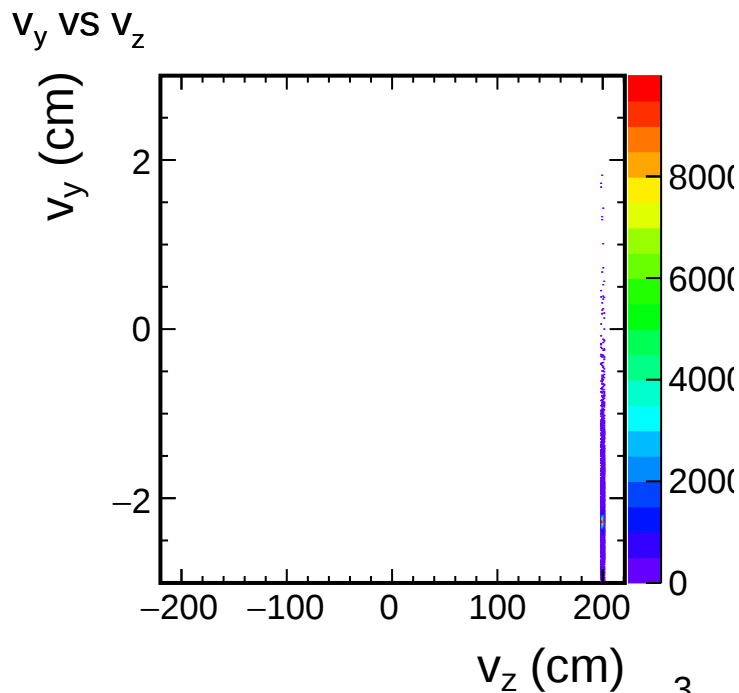
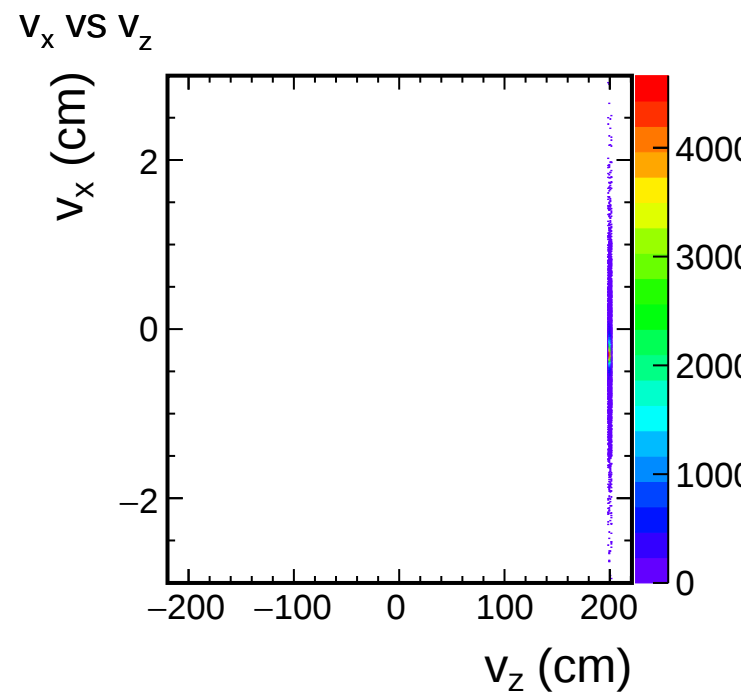
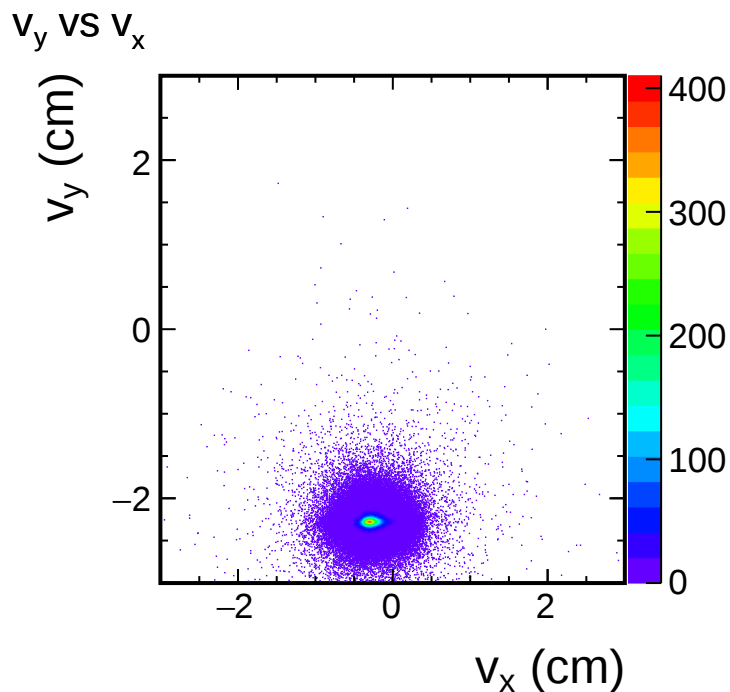
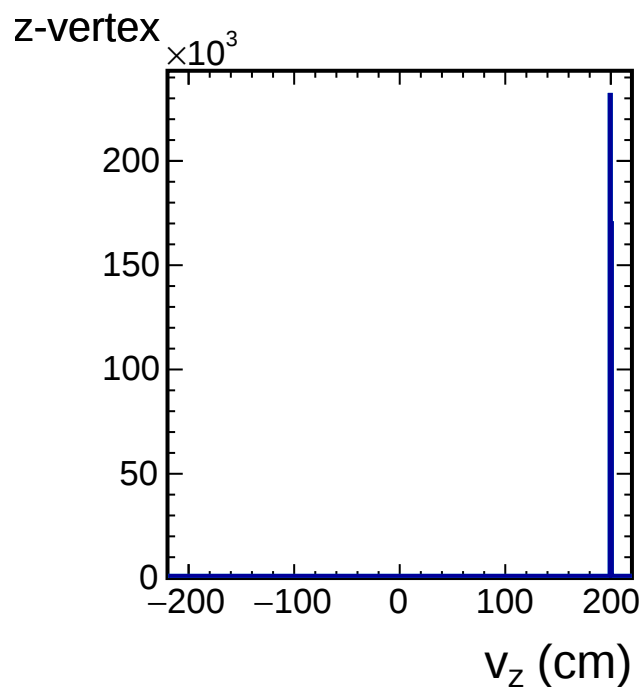
global Dca < 3.0 cm

$|\sigma| < 2.0$, using TPC dE/dx

NOTE1: Rapidity cut for real data has to be made manually in doEmbeddingQAMaker.C

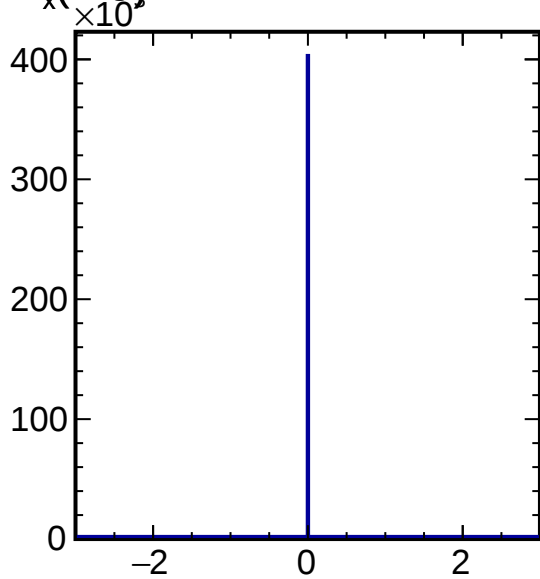
NOTE2: Cut on its own variable is currently disabled, e.x. no dca cut for dca histogram

Event vertices, offline cuts: $-220.0 < v_z < 220.0$ cm



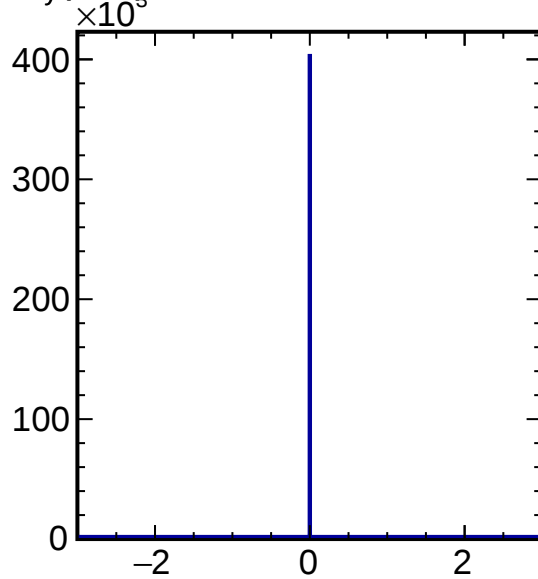
Event vertices, $\Delta v = v(\text{Data}) - v(\text{MC})$

$$= v_x - v_x(\text{MC})$$



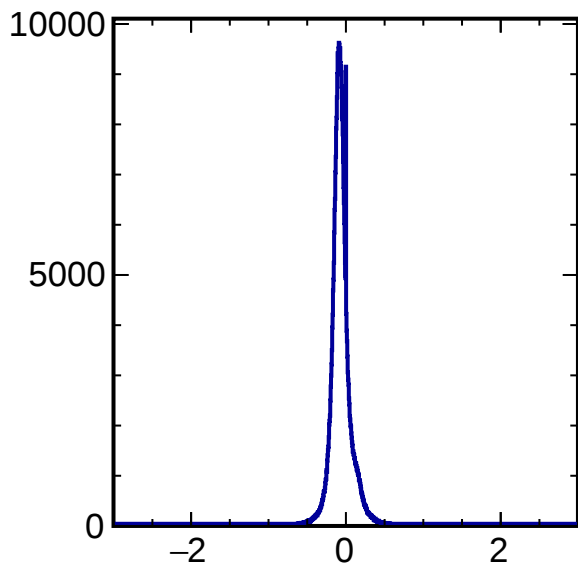
$$\Delta v_x = v_x - v_x(\text{MC}) \text{ (cm)}$$

$$= v_y - v_y(\text{MC})$$



$$\Delta v_y = v_y - v_y(\text{MC}) \text{ (cm)}$$

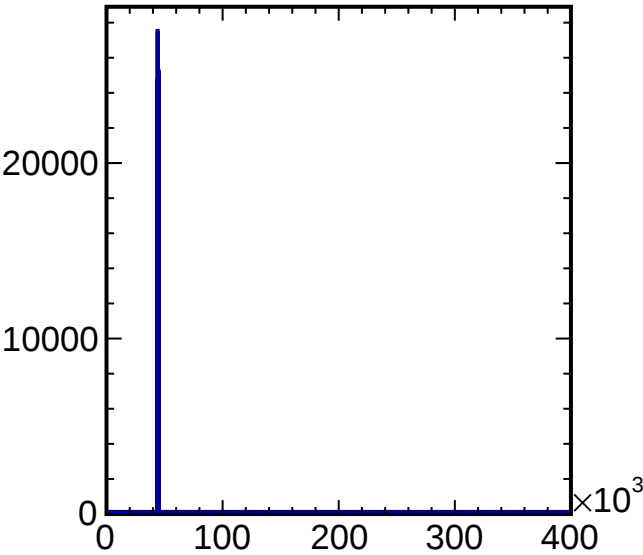
$$= v_z - v_z(\text{MC})$$



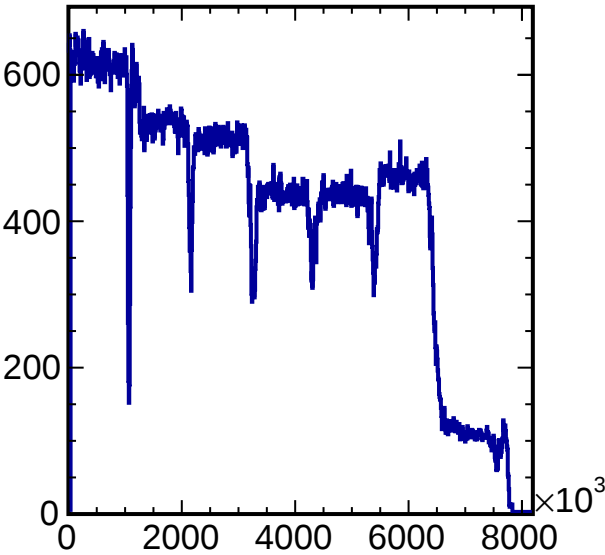
$$\Delta v_z = v_z - v_z(\text{MC}) \text{ (cm)}$$

Run and event id

(Year - 1999)×10⁶



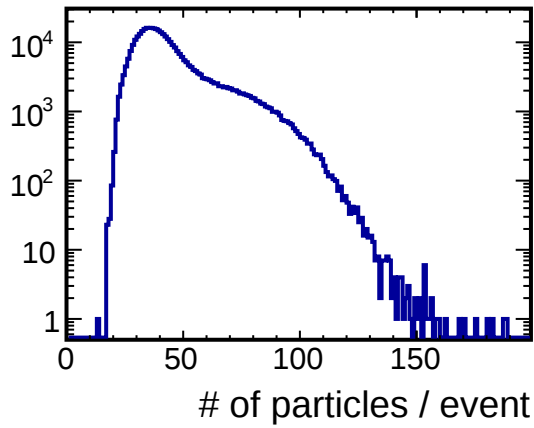
Event id



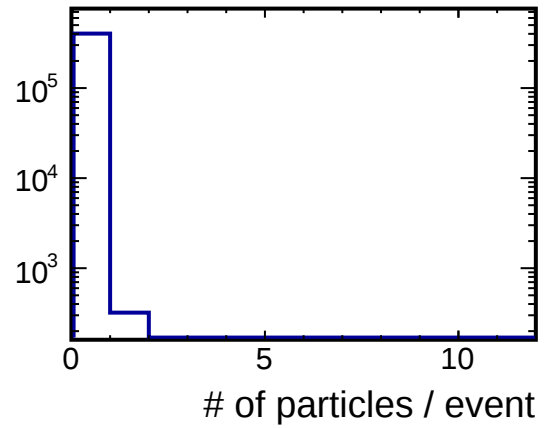
Run id		statistics		Run id		statistics		Run id		statistics		Run id		statistics	
21044028		994 events		21044034		13622 events		21044041		15278 events		21045005		15448 events	
21044029		22779 events		21044036		12266 events		21044042		24688 events		21045006		22502 events	
21044030		15734 events		21044037		9362 events		21044043		18807 events		21045007		20539 events	
21044031		12527 events		21044038		23316 events		21045001		23295 events		21045008		834 events	
21044032		27529 events		21044039		24694 events		21045002		22156 events		21045009		25225 events	
21044033		282 events		21044040		22955 events		21045003		16961 events		21045011		11092 events	

Multiplicity distribution

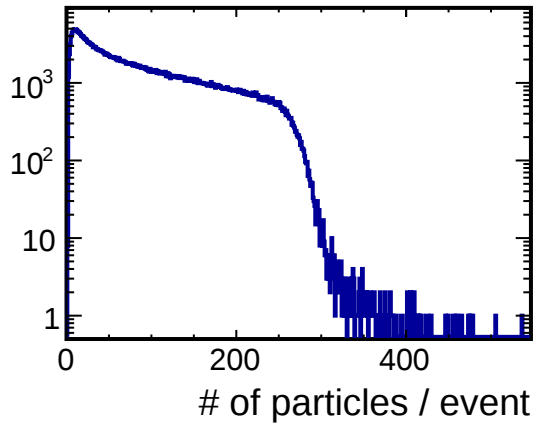
MC tracks



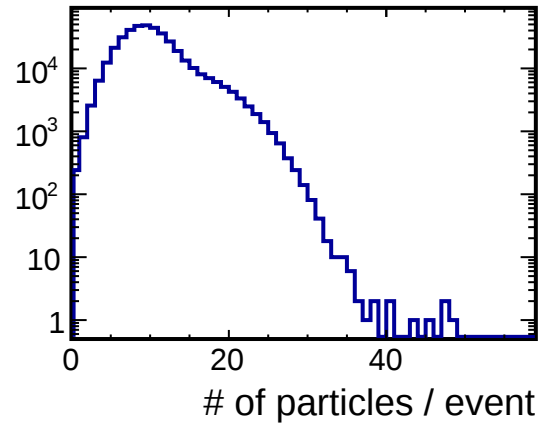
matched pairs



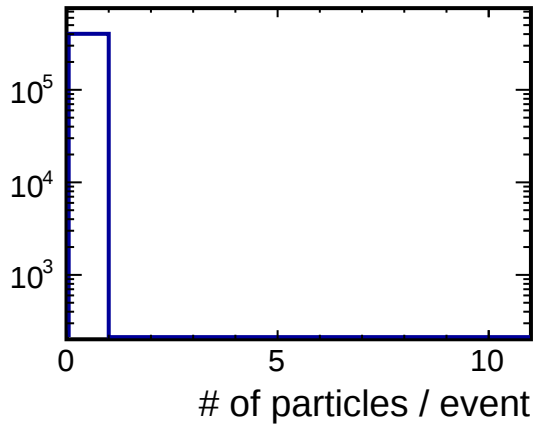
Ghost pairs



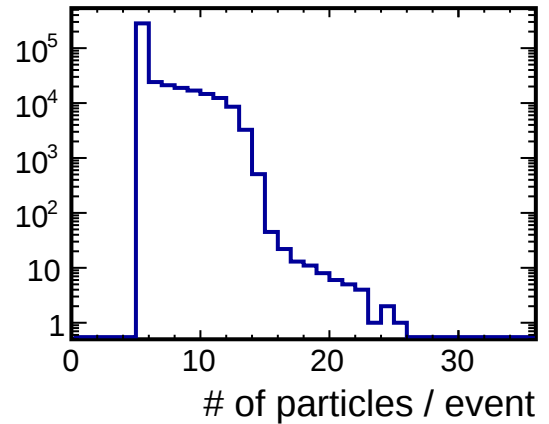
contaminated pairs



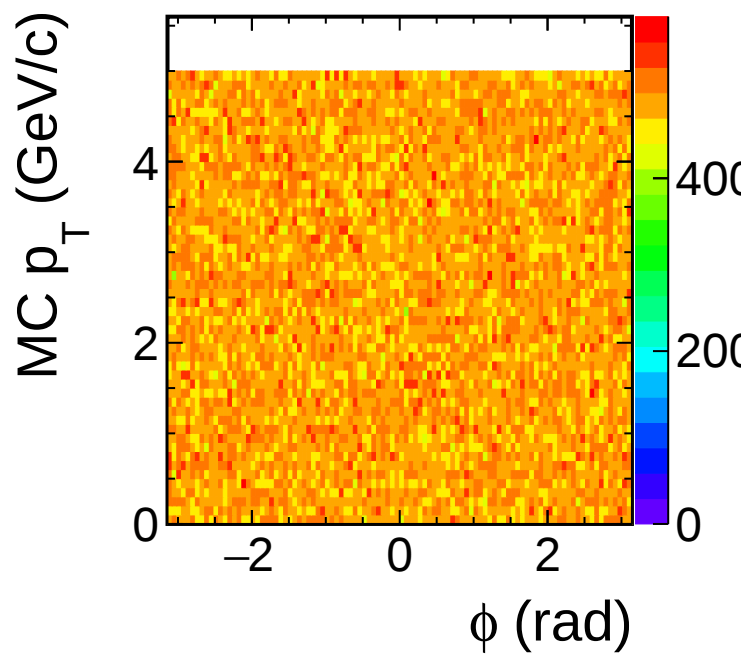
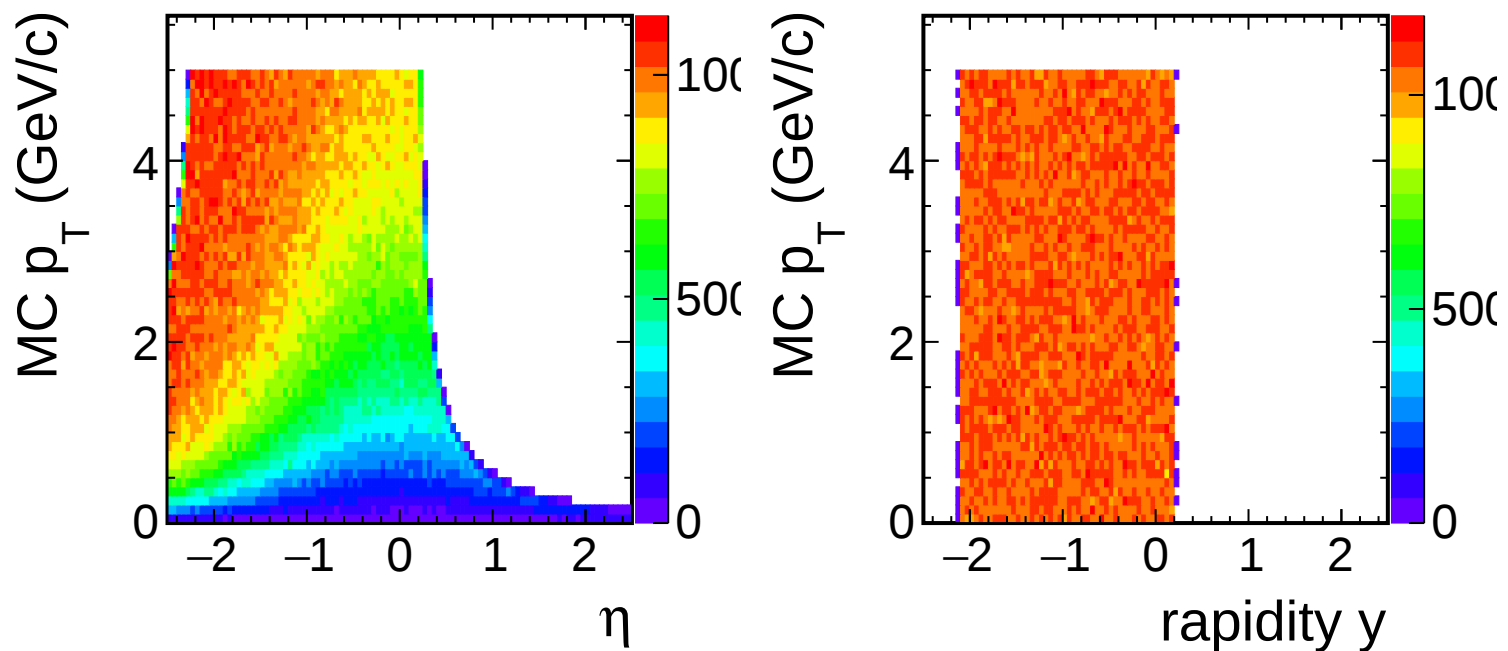
matched global pairs



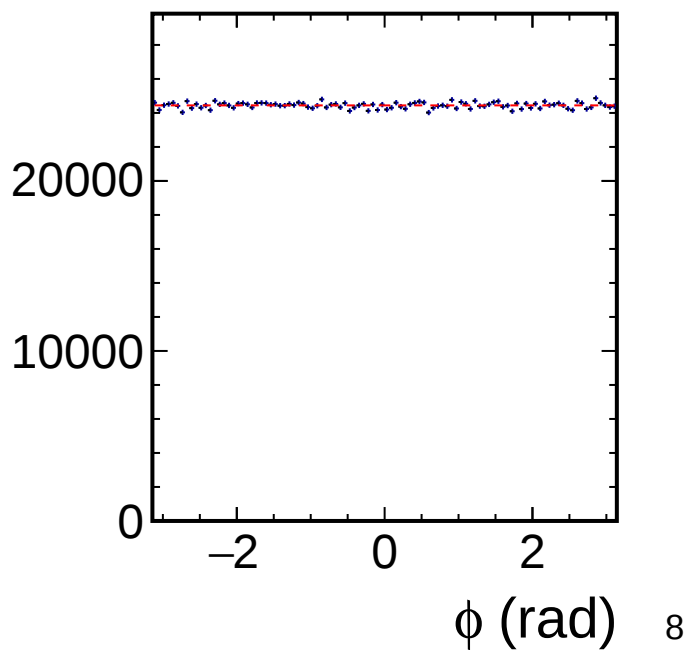
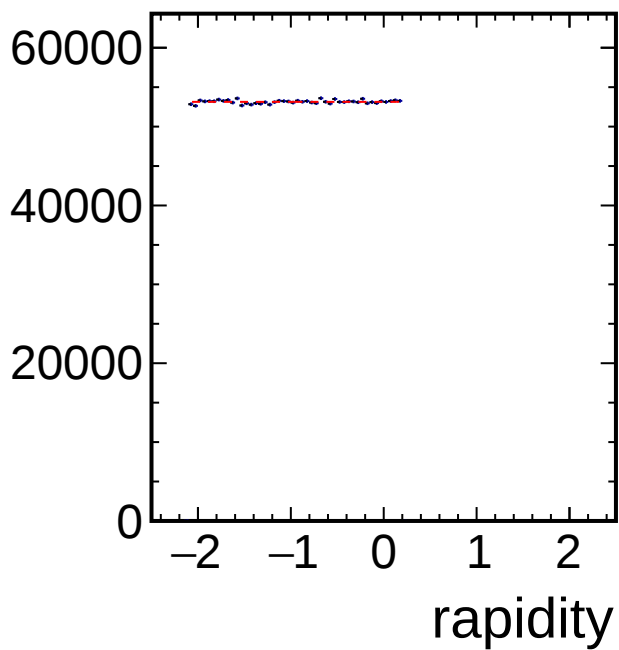
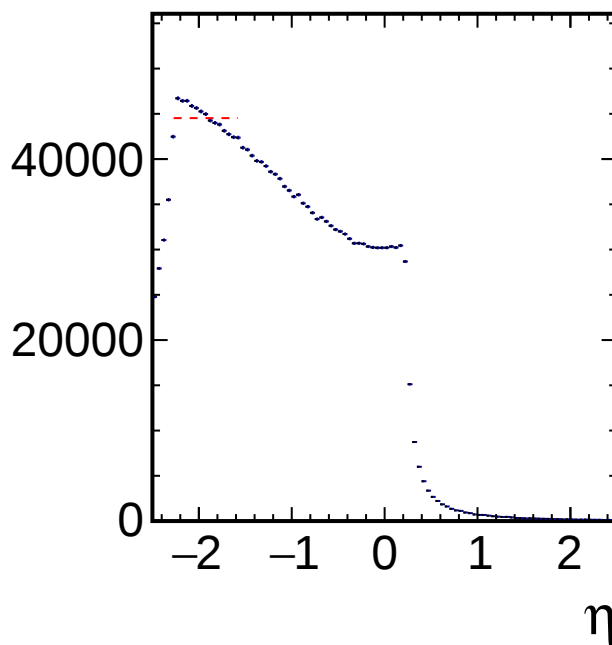
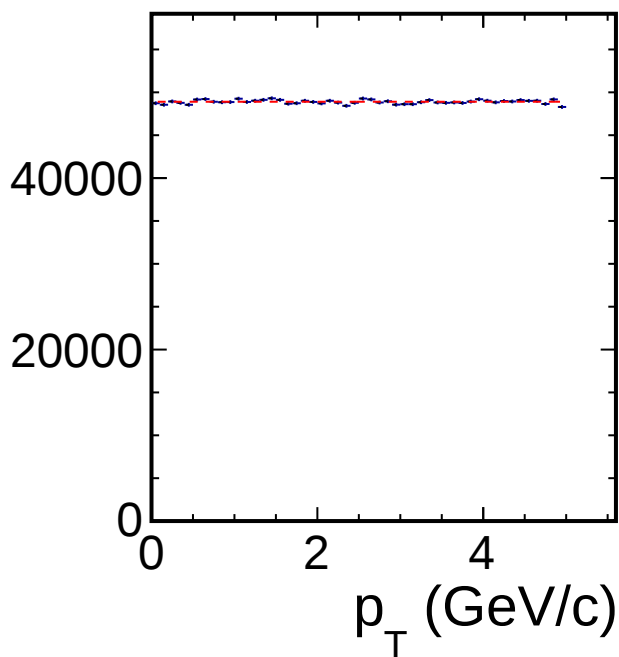
primary MC tracks



MC track QA (2D)

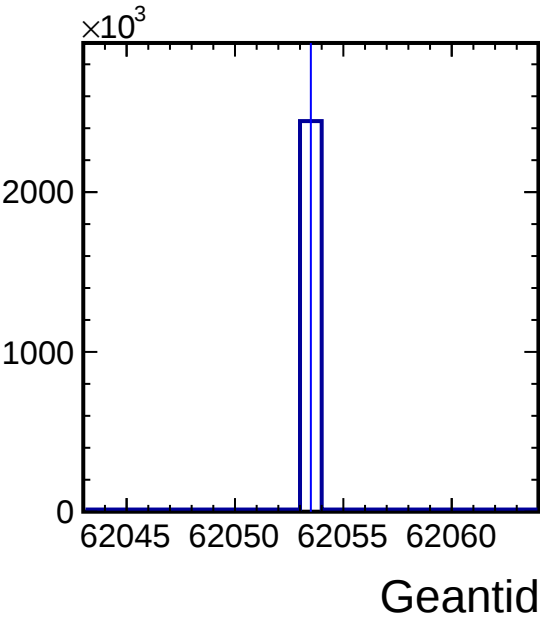


MC track QA (1D)

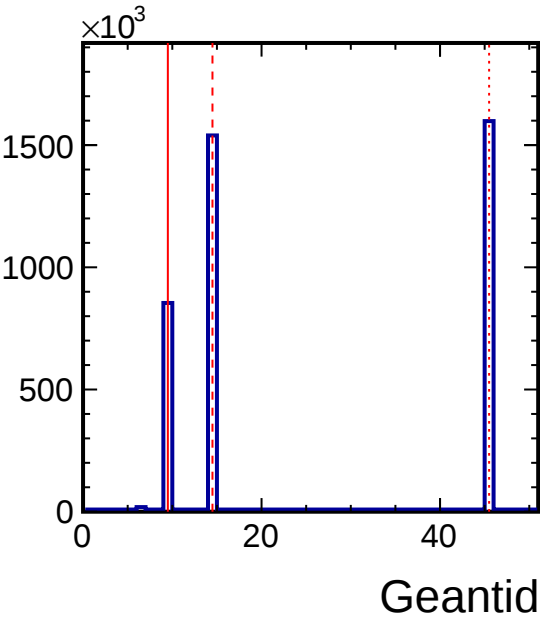


Geant id

it id for HyperTriton



tructed geant id

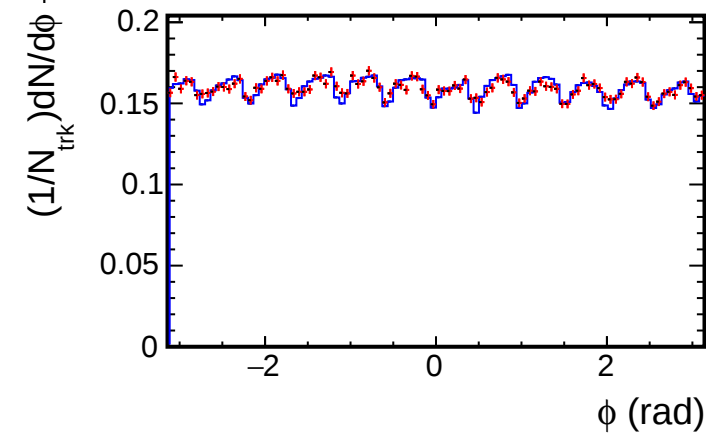


Particle informations

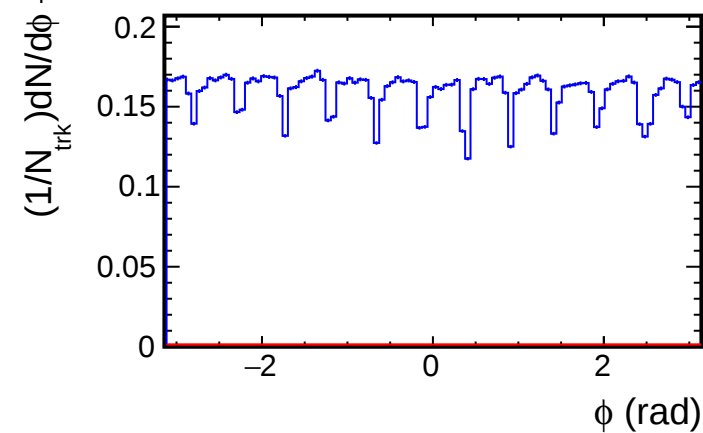
- Parent HyperTriton (MC, geantid=62053)
- Daughter pi- (from HyperTriton) (CONTAM, geantid=9)
- - - Daughter proton (from HyperTriton) (CONTAM, geantid=14)
- ... Daughter deuteron (from HyperTriton) (CONTAM, geantid=45)

Projection of ϕ for each p_T bin

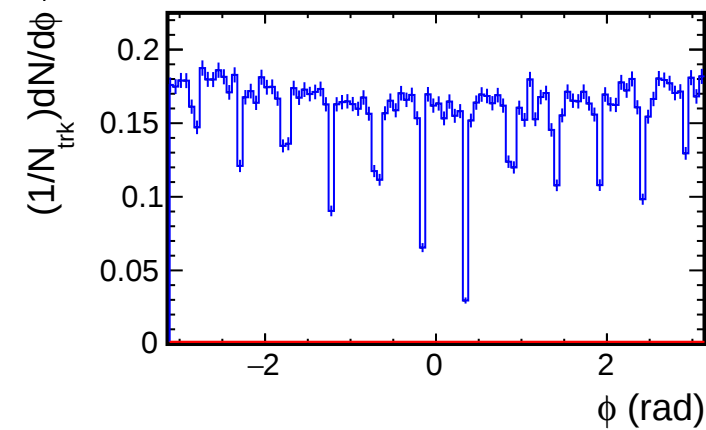
$p_T < 0.5$ (GeV/c)



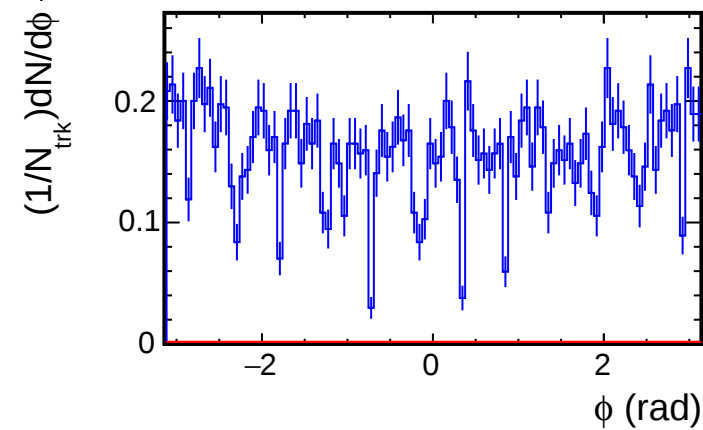
$p_T < 1.0$ (GeV/c)



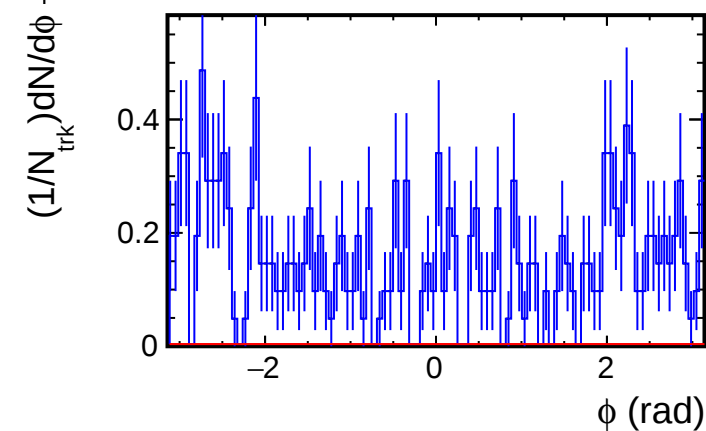
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

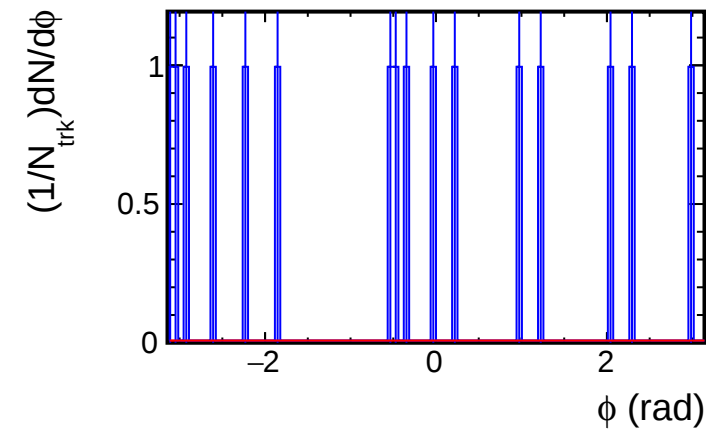


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

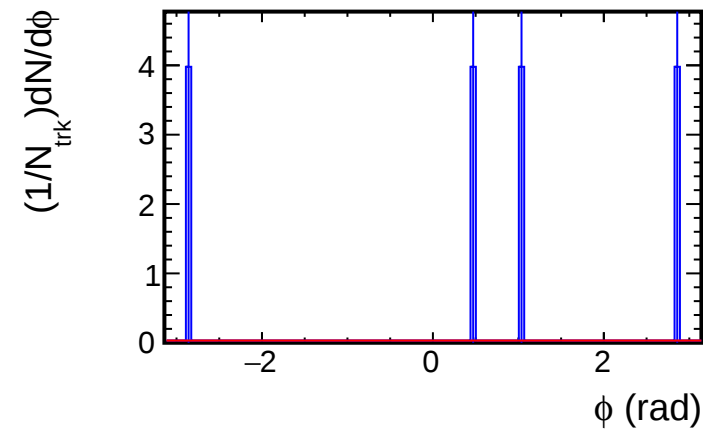
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

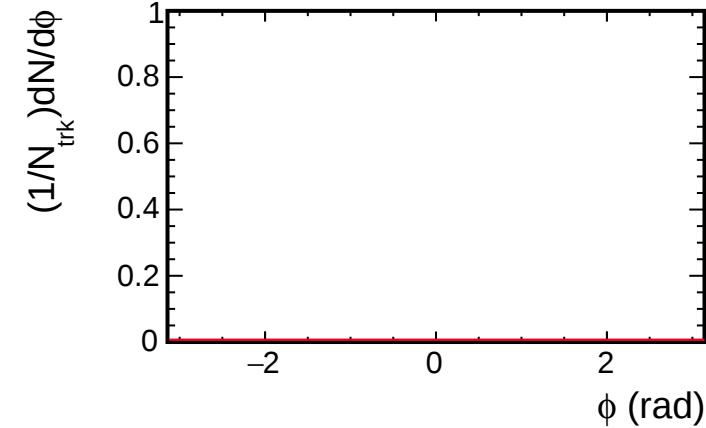
$p_T < 3.0$ (GeV/c)



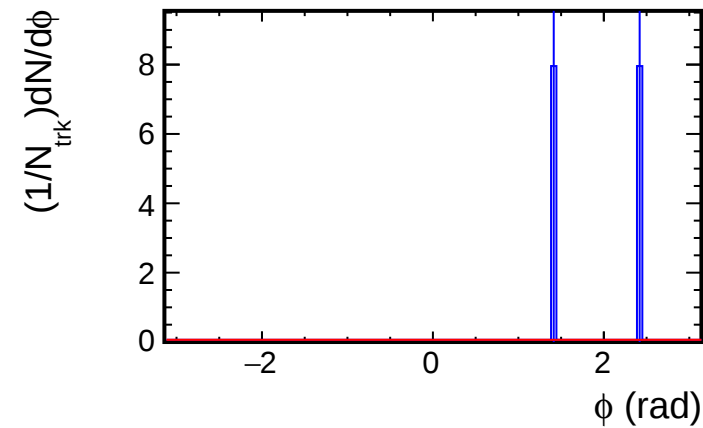
$p_T < 3.5$ (GeV/c)



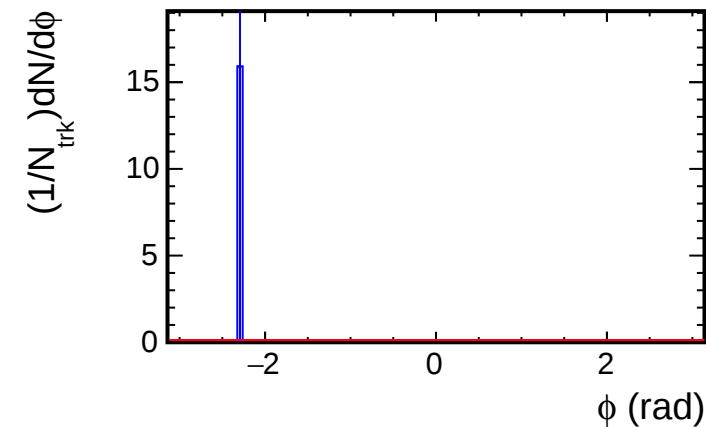
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

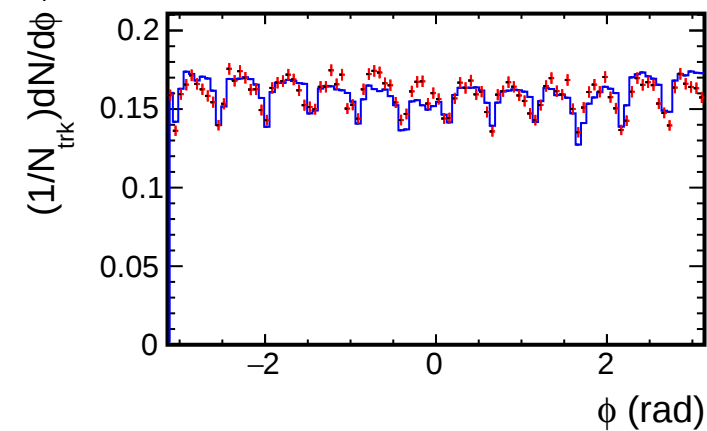


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

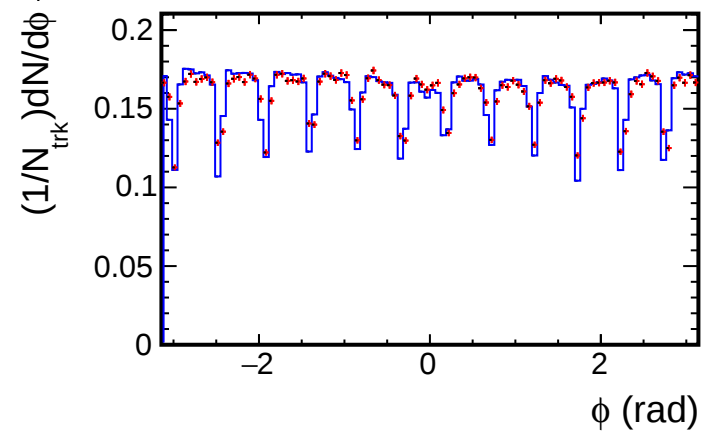
— pi-
(PRIMARY, $|\ln \sigma_{\text{pi-}}| < 2$ TPC)

Projection of ϕ for each p_T bin

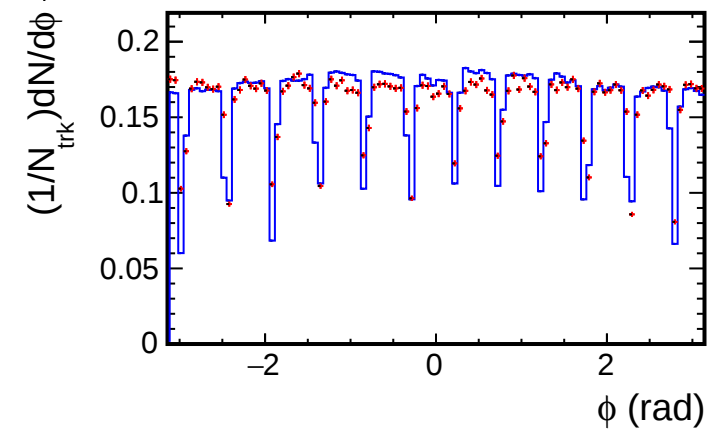
$p_T < 0.5$ (GeV/c)



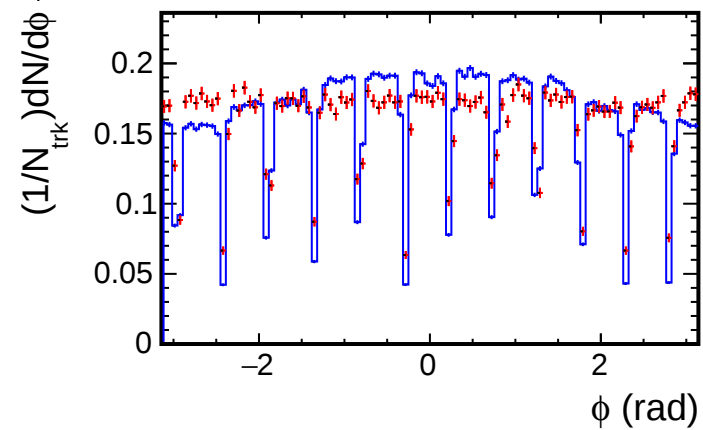
$p_T < 1.0$ (GeV/c)



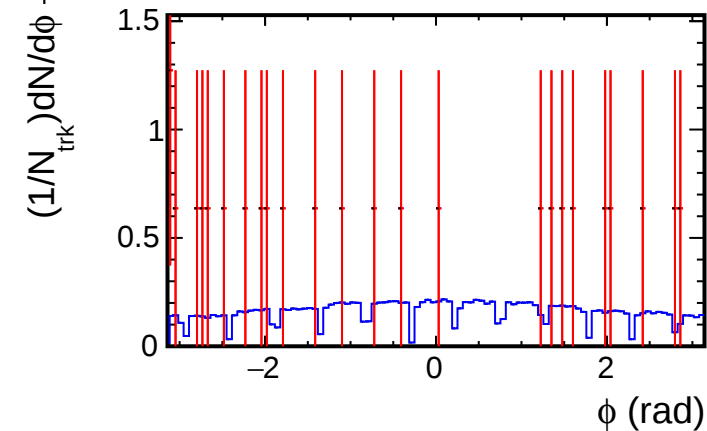
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

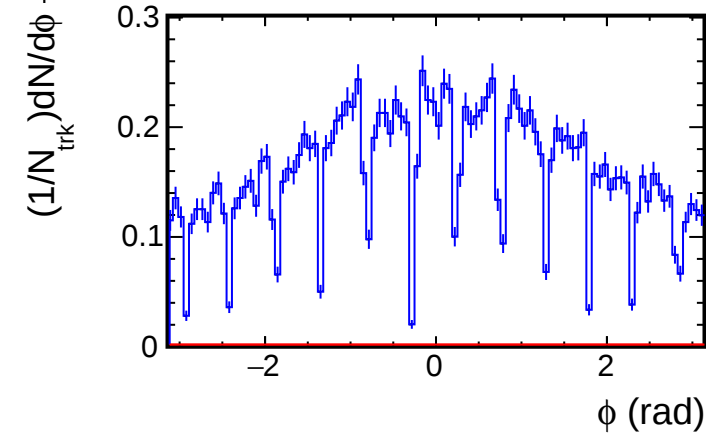


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

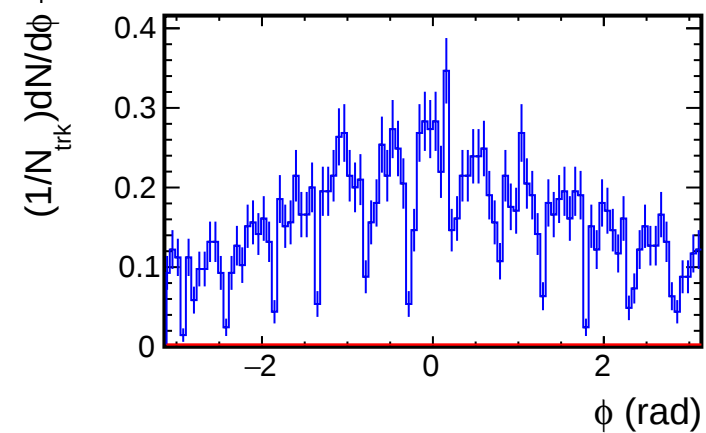
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of ϕ for each p_T bin

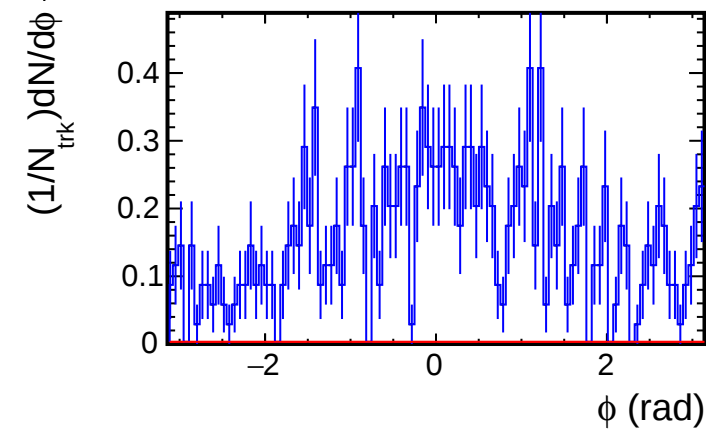
$p_T < 3.0$ (GeV/c)



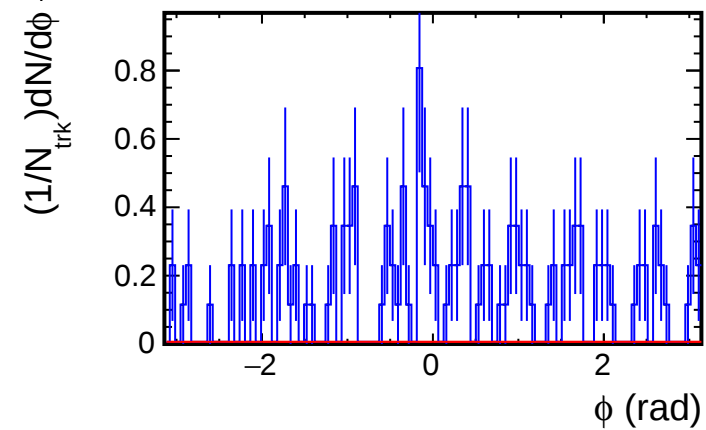
$p_T < 3.5$ (GeV/c)



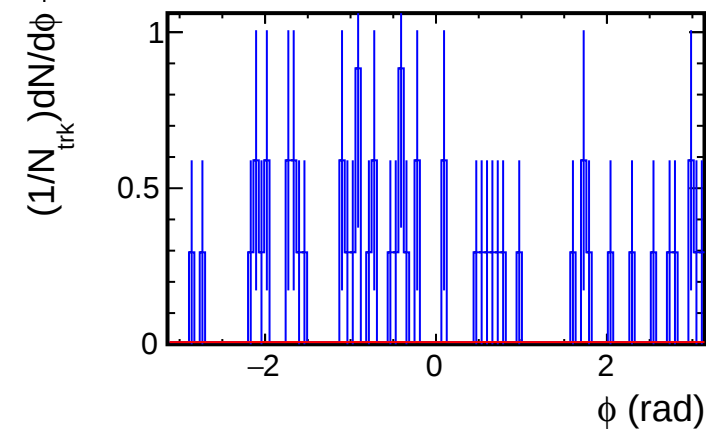
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

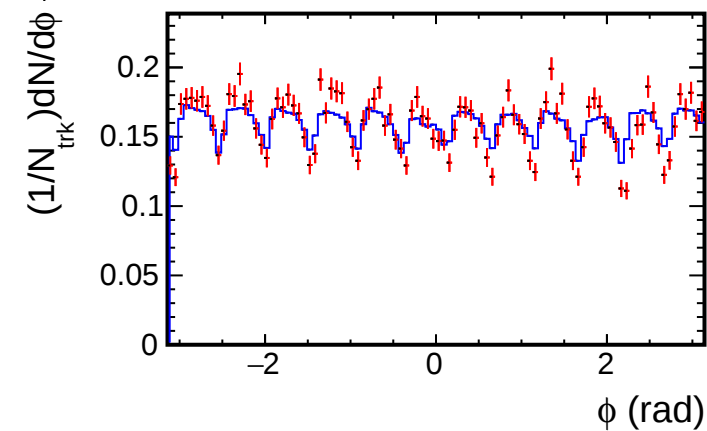


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

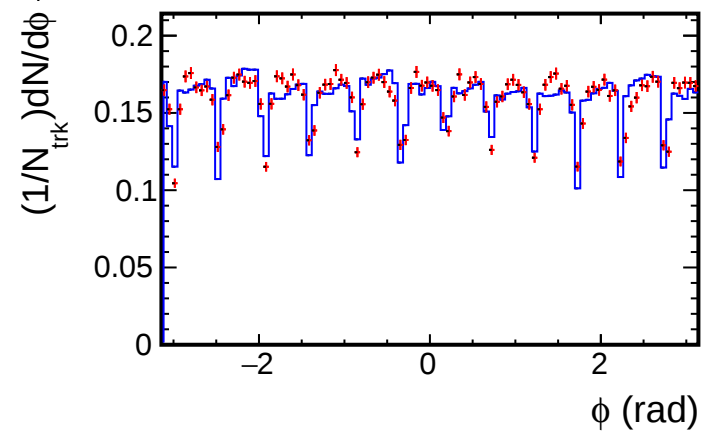
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of ϕ for each p_T bin

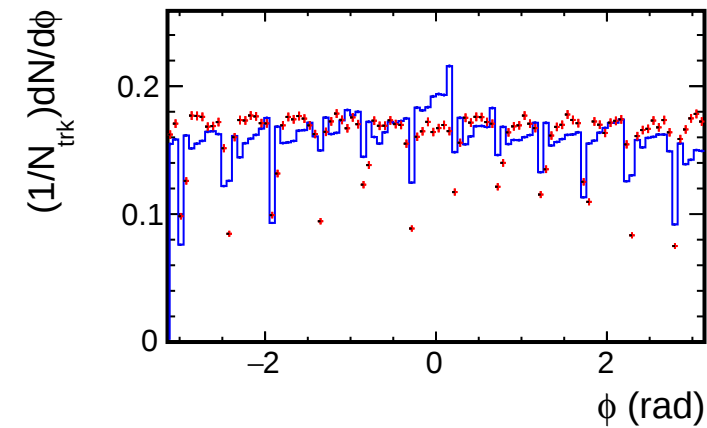
$p_T < 0.5$ (GeV/c)



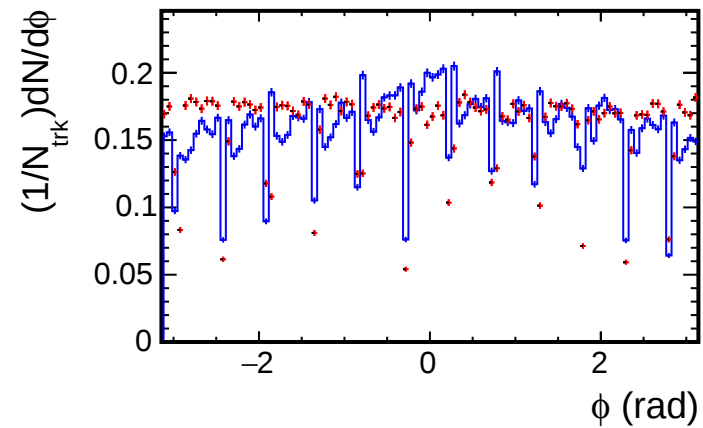
$p_T < 1.0$ (GeV/c)



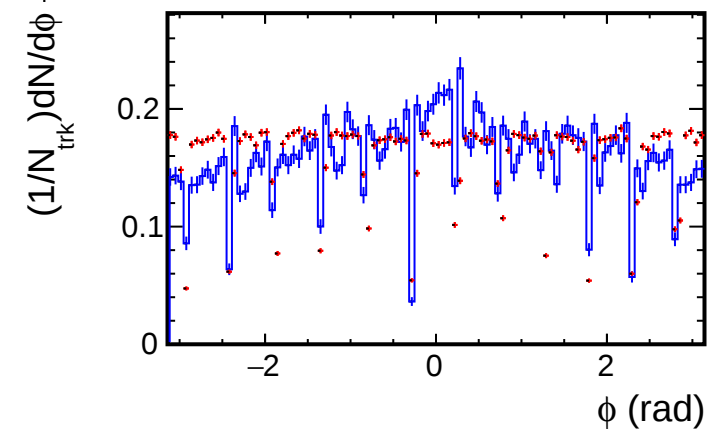
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

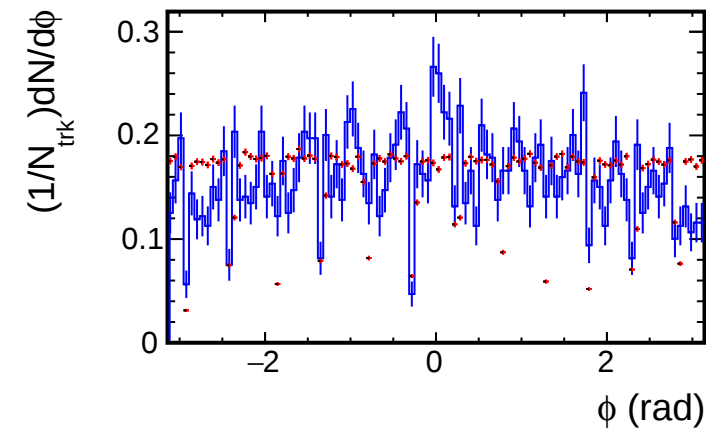


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

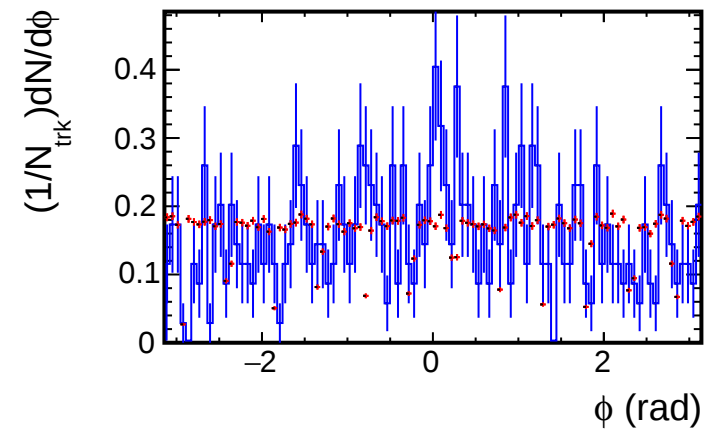
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

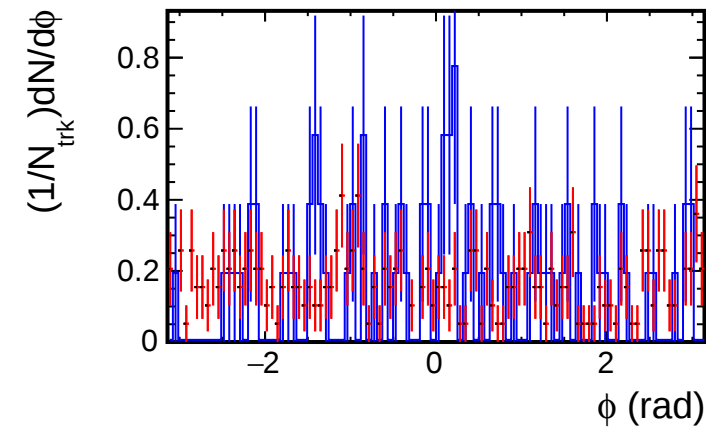
$p_T < 3.0$ (GeV/c)



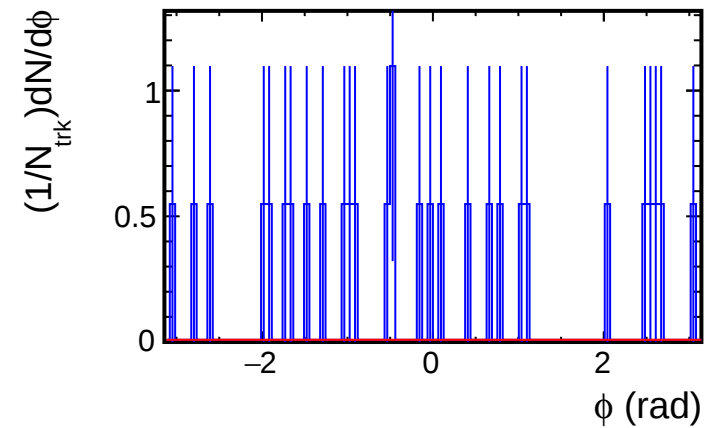
$p_T < 3.5$ (GeV/c)



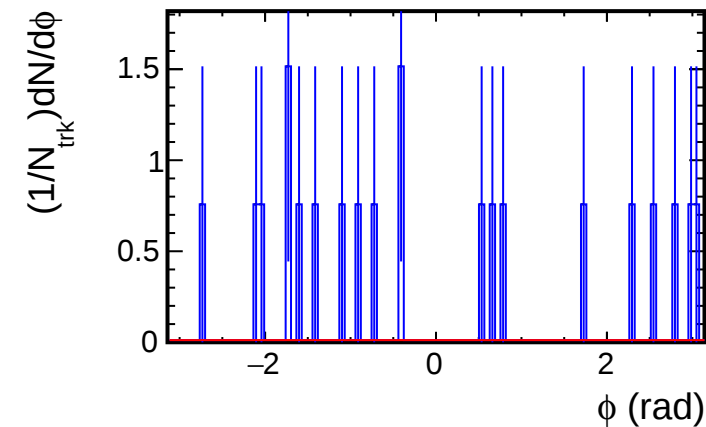
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

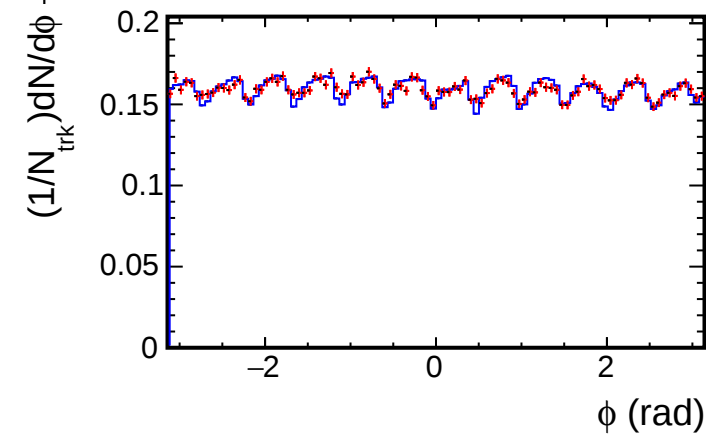


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

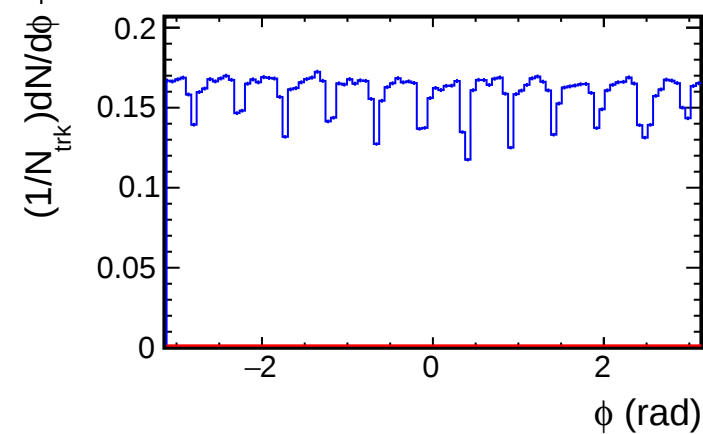
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

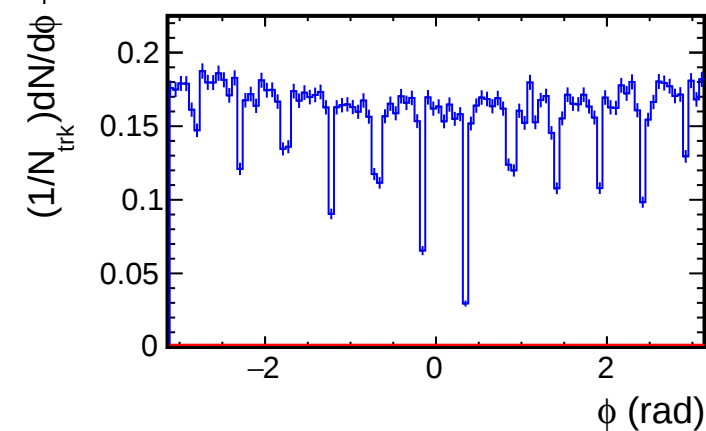
$p_T < 0.5$ (GeV/c)



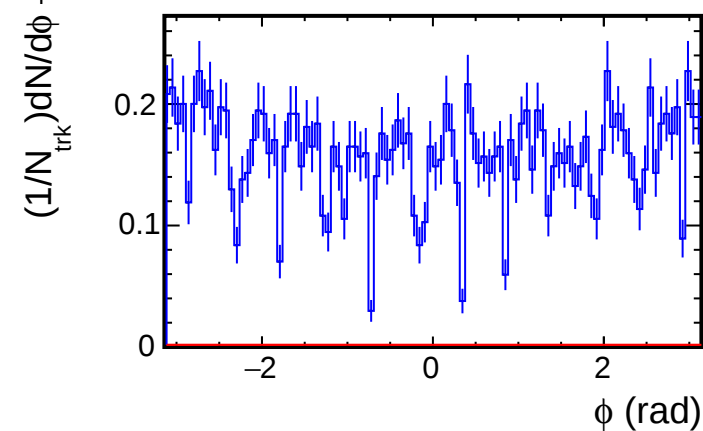
$p_T < 1.0$ (GeV/c)



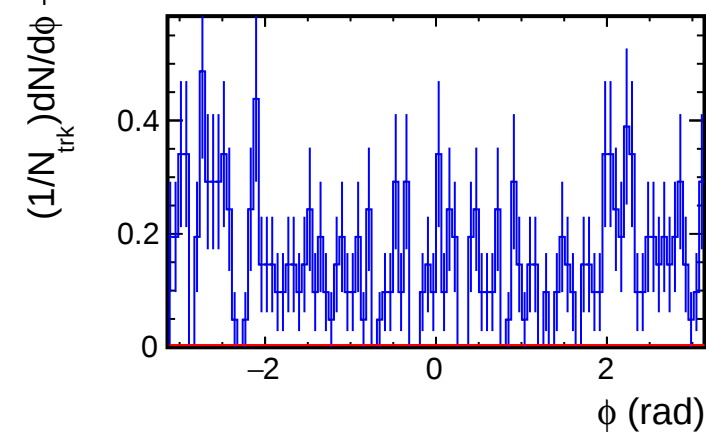
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

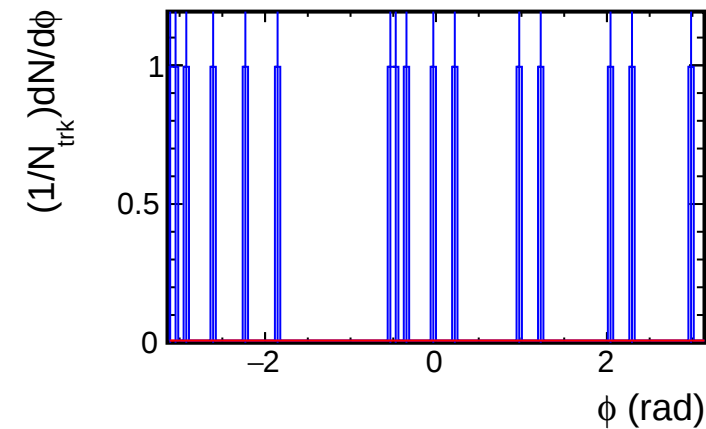


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

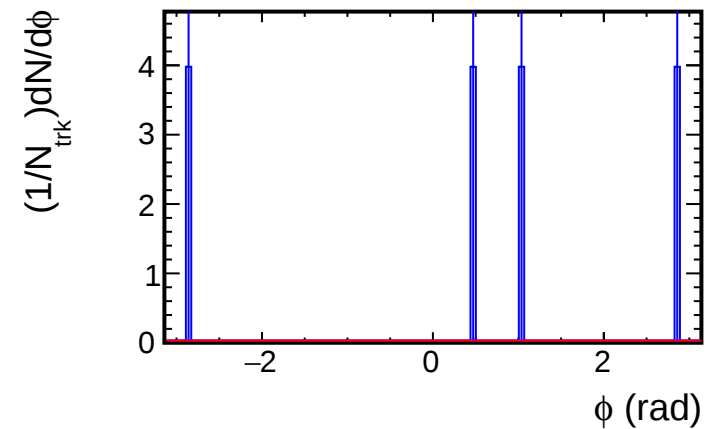
— pi-
(PRIMARY, $|\ln \sigma_{\text{pi-}}| < 2$ TPC)

Projection of ϕ for each p_T bin

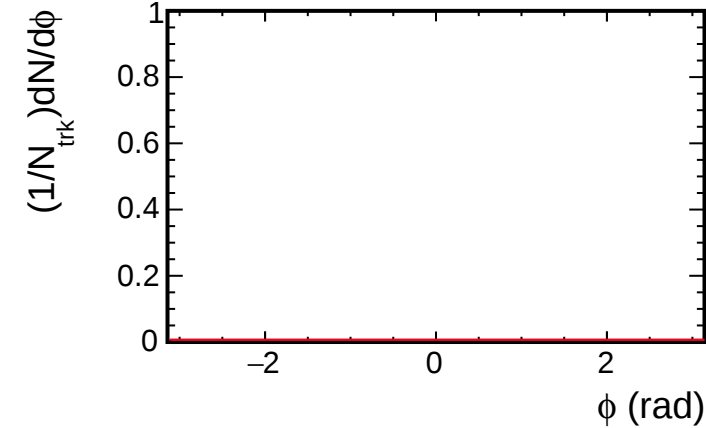
$p_T < 3.0$ (GeV/c)



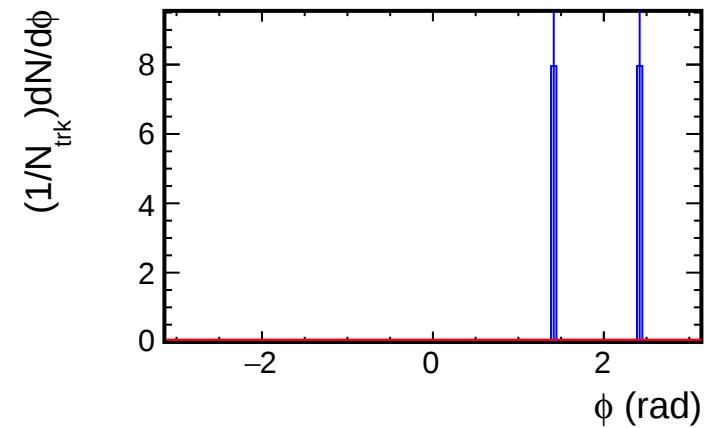
$p_T < 3.5$ (GeV/c)



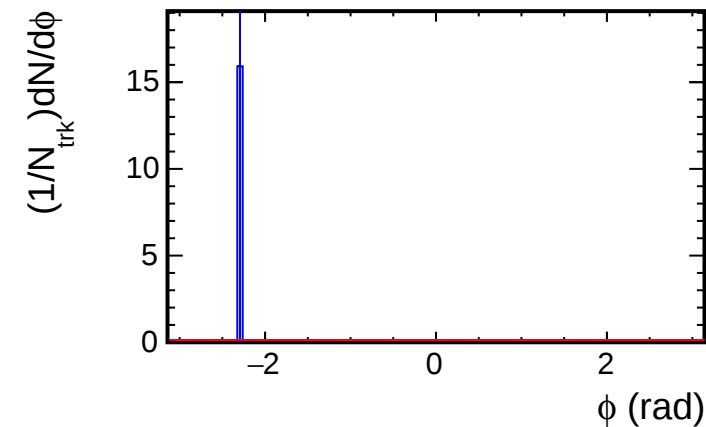
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

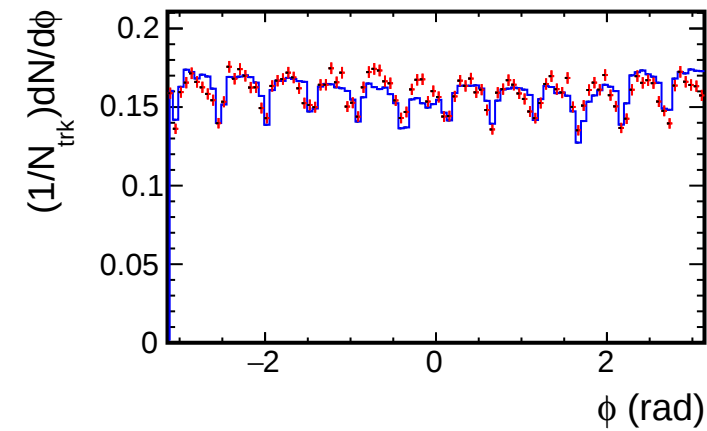


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

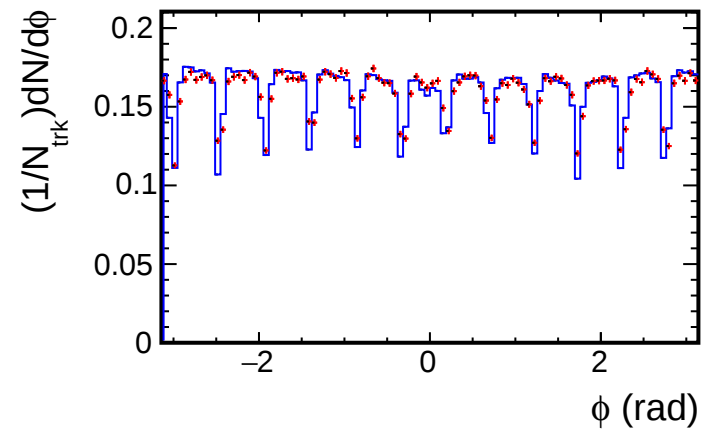
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

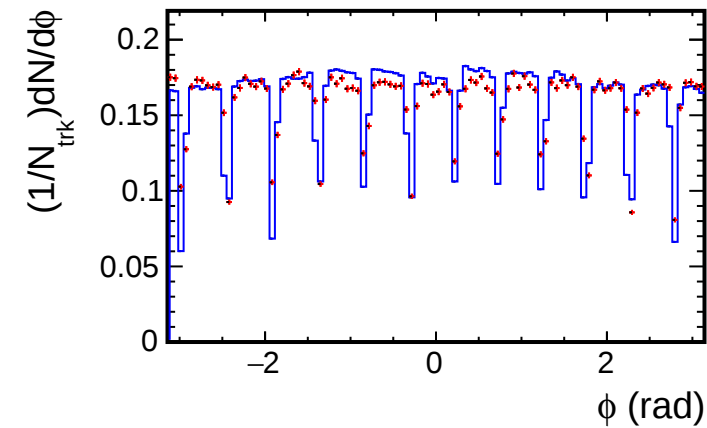
$p_T < 0.5$ (GeV/c)



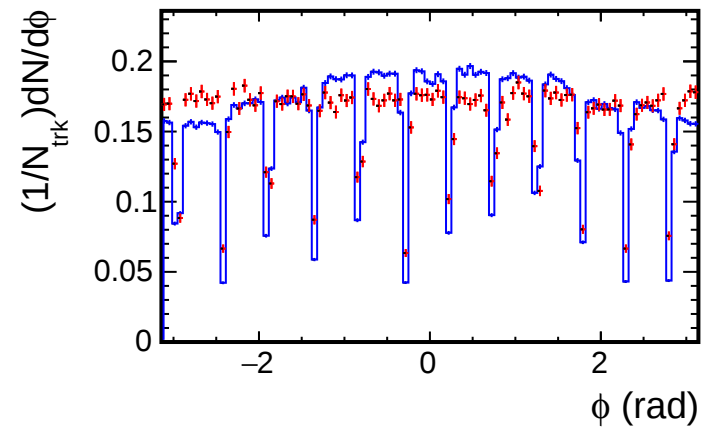
$p_T < 1.0$ (GeV/c)



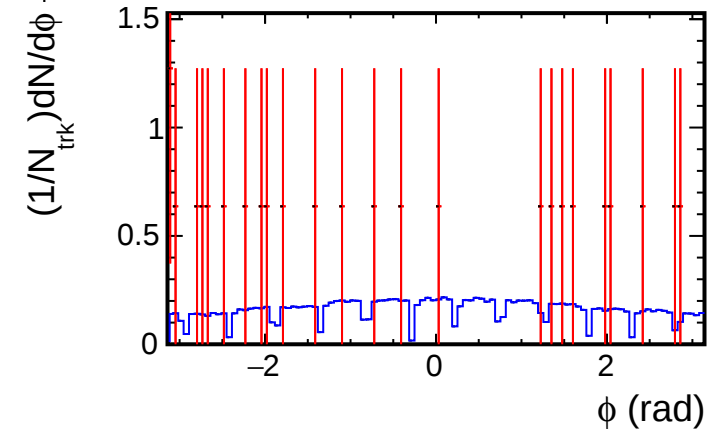
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

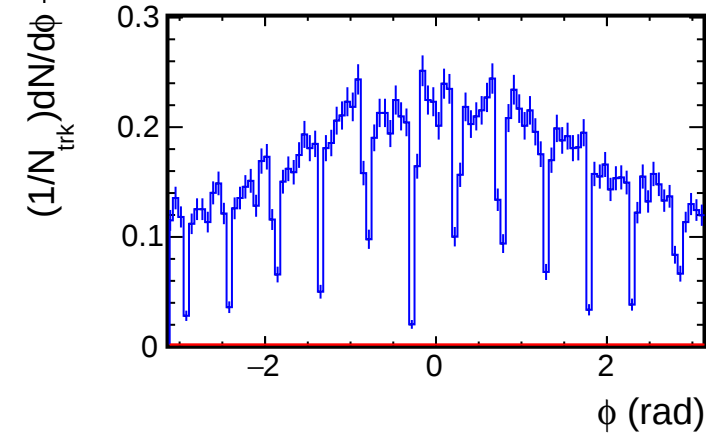


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

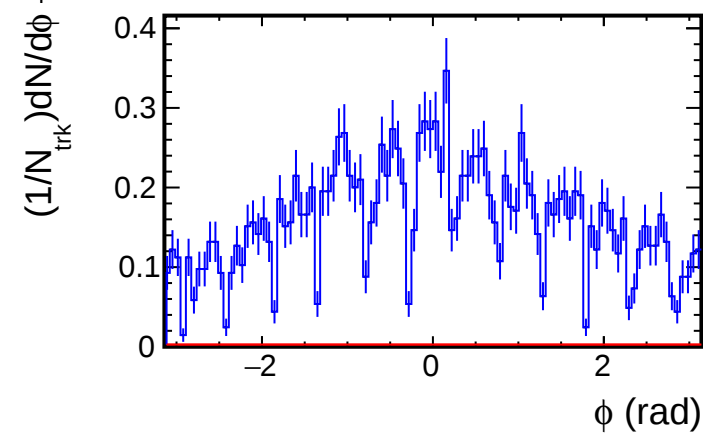
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Projection of ϕ for each p_T bin

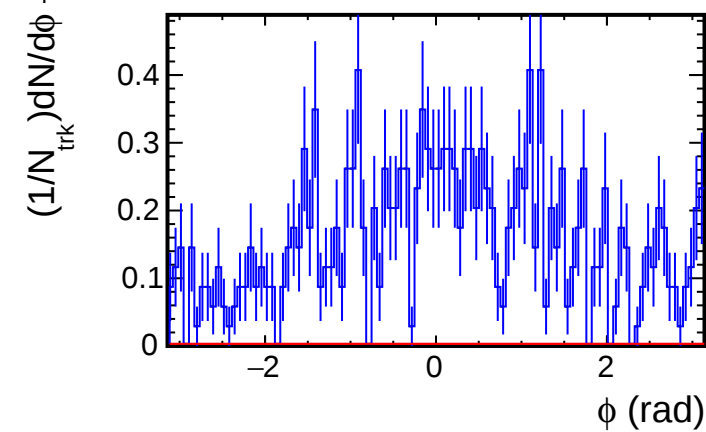
$p_T < 3.0$ (GeV/c)



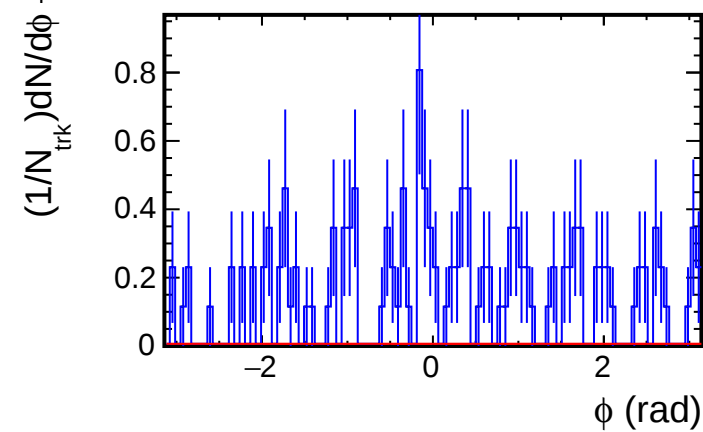
$p_T < 3.5$ (GeV/c)



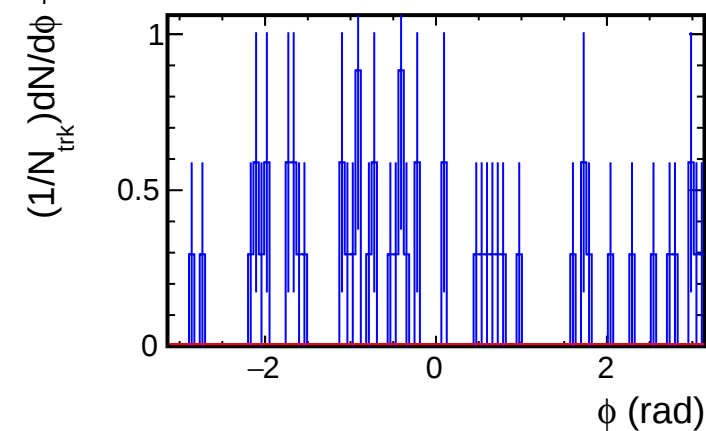
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

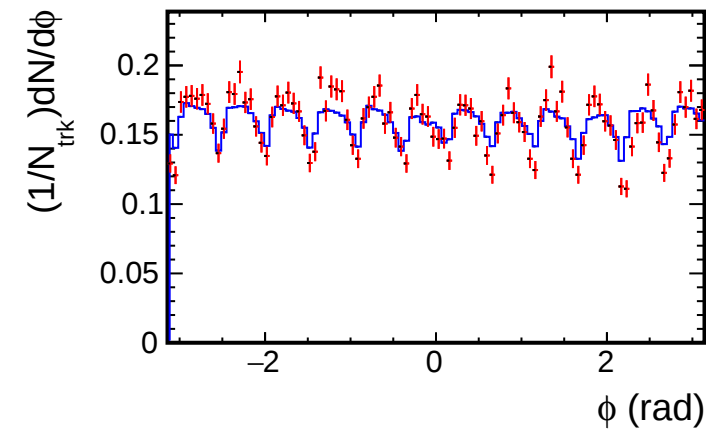


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

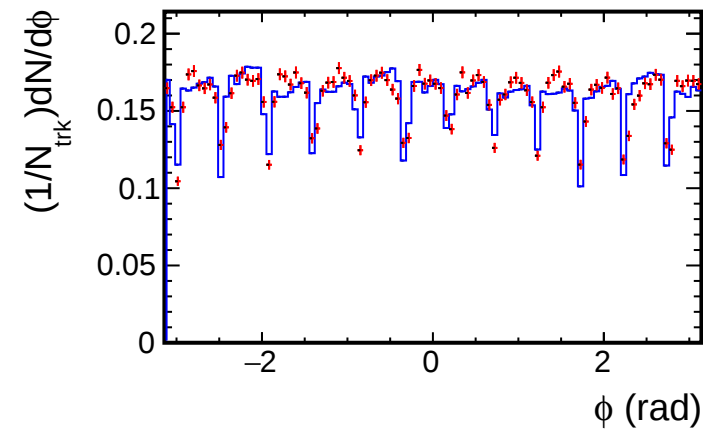
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of ϕ for each p_T bin

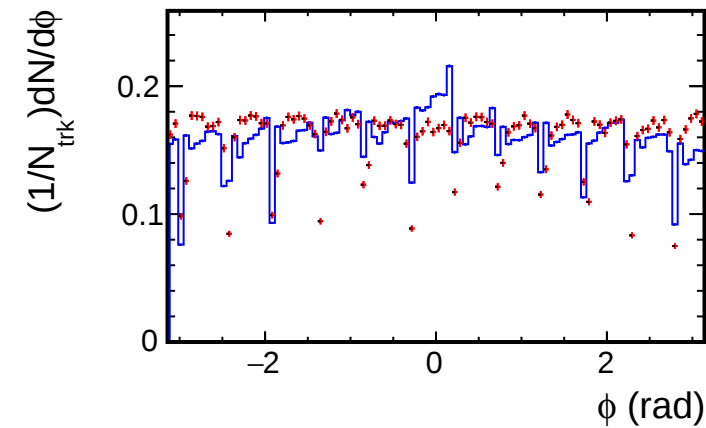
$p_T < 0.5$ (GeV/c)



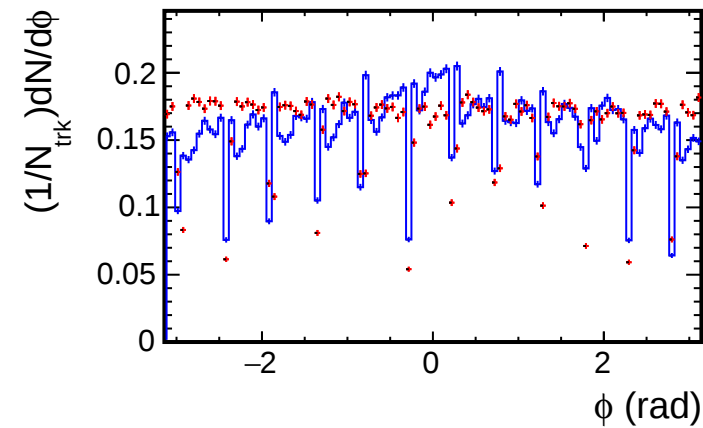
$p_T < 1.0$ (GeV/c)



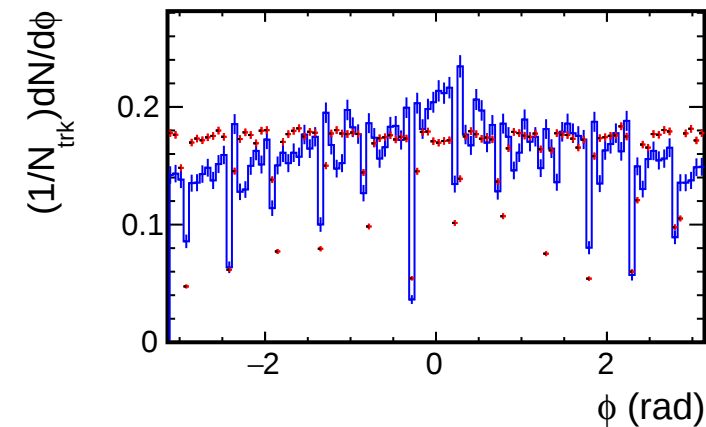
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

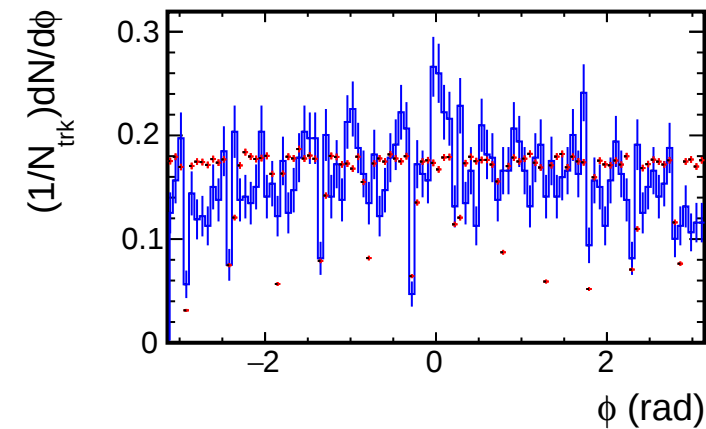


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

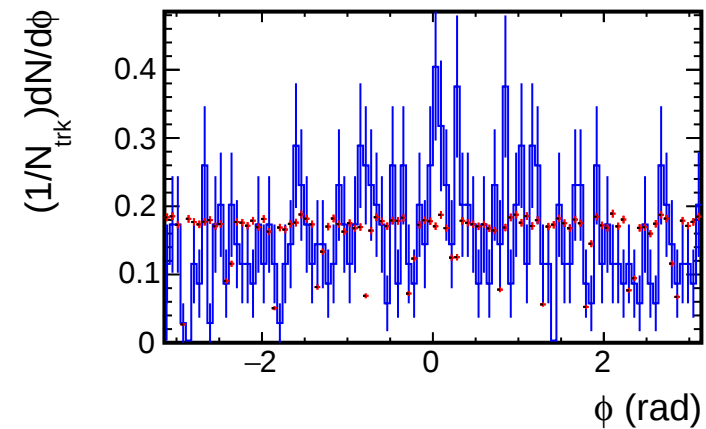
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

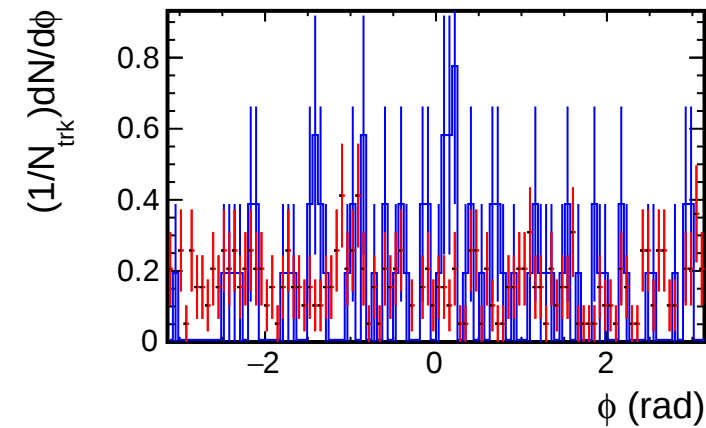
$p_T < 3.0$ (GeV/c)



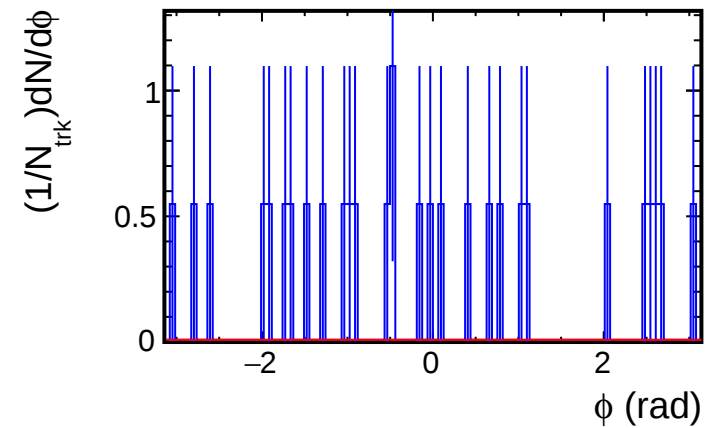
$p_T < 3.5$ (GeV/c)



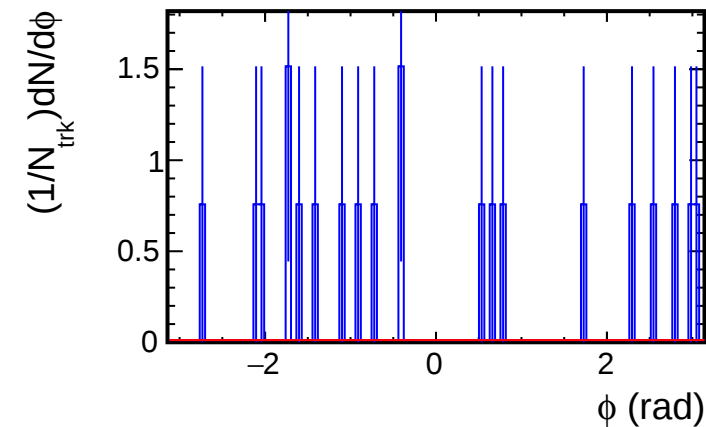
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

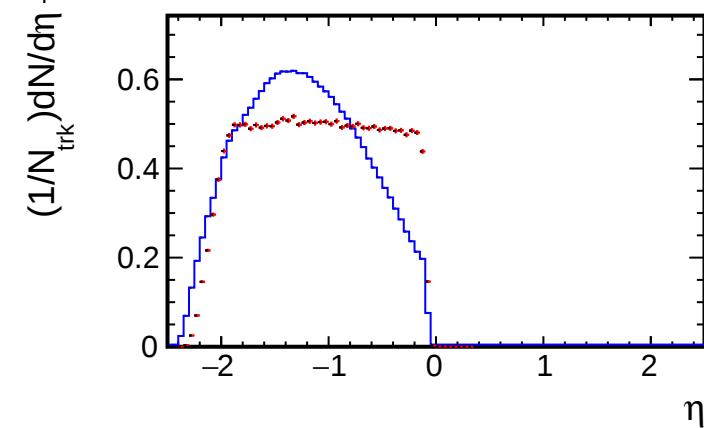


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

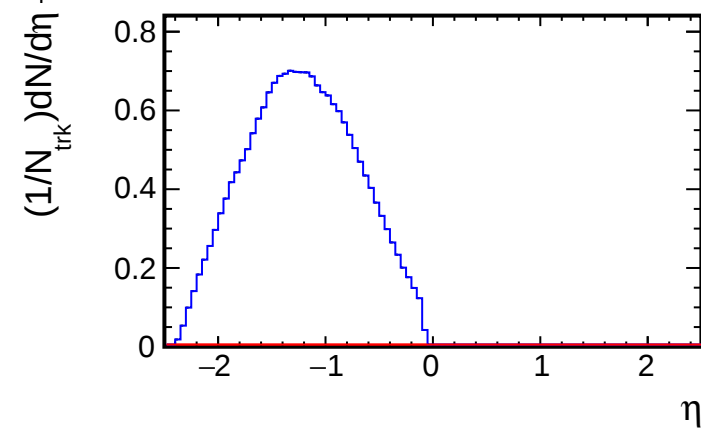
— π^+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of η for each p_T bin

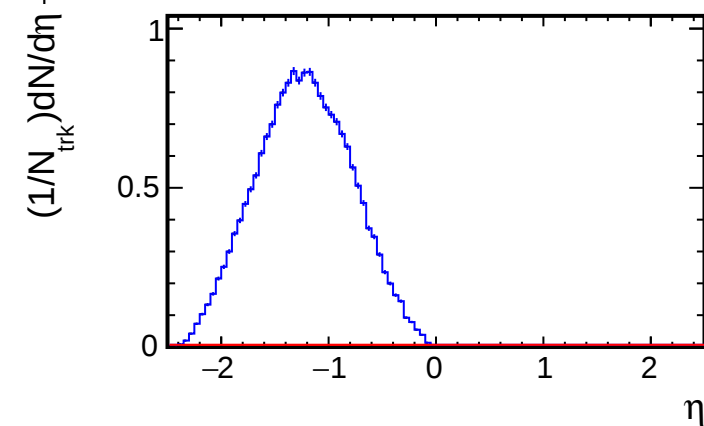
$p_T < 0.5$ (GeV/c)



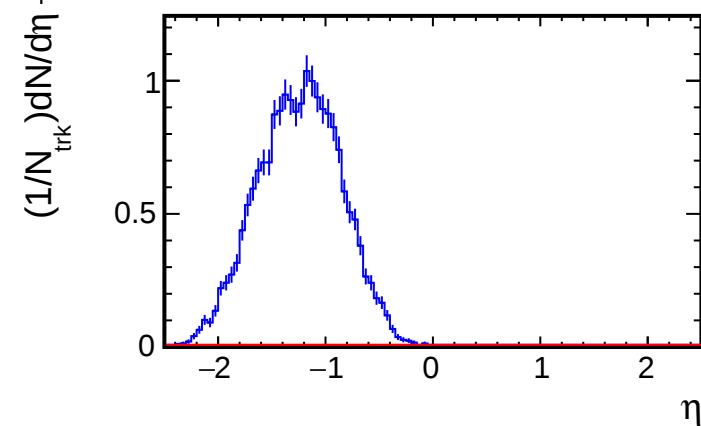
$p_T < 1.0$ (GeV/c)



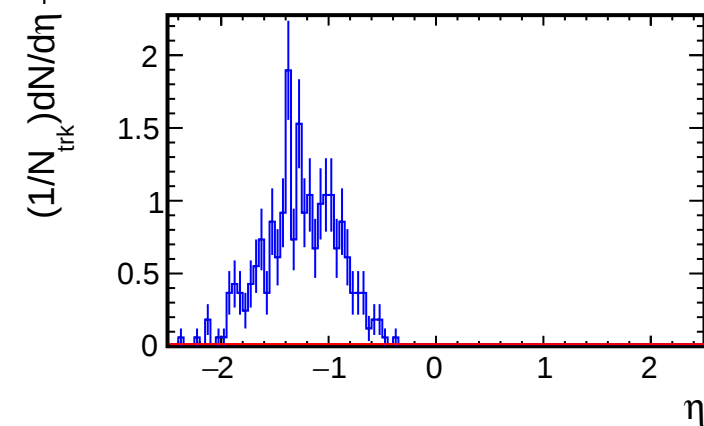
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

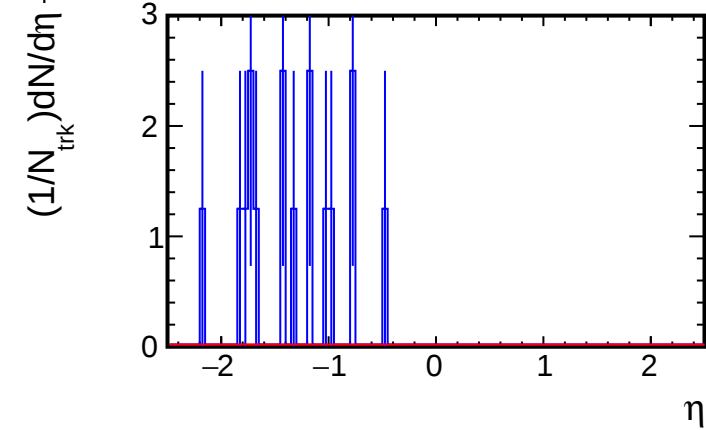


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

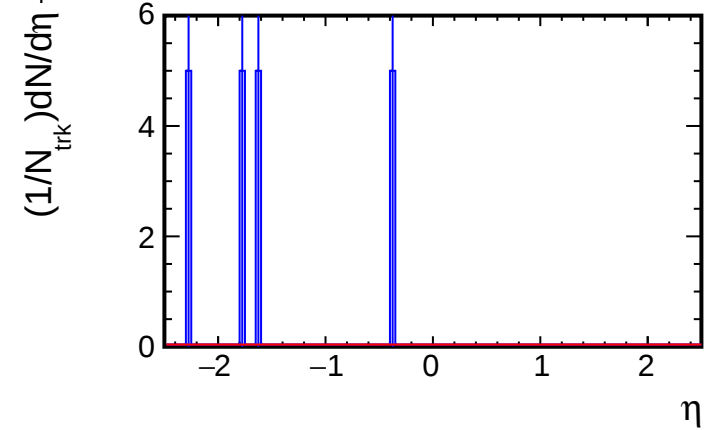
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

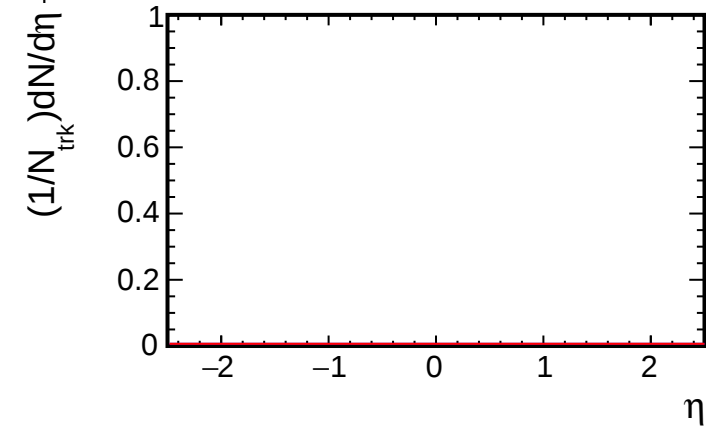
$p_T < 3.0$ (GeV/c)



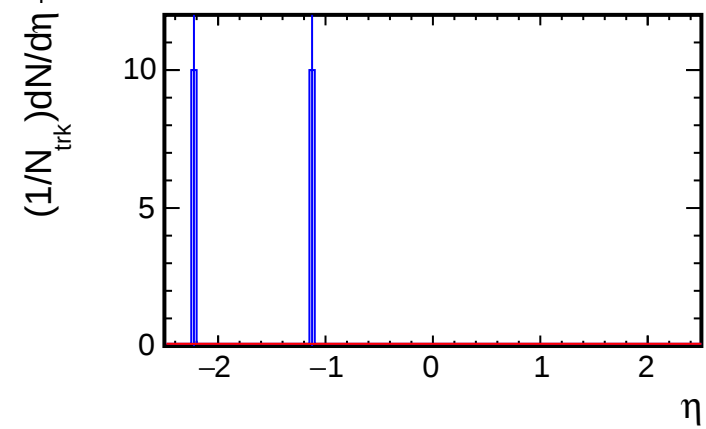
$p_T < 3.5$ (GeV/c)



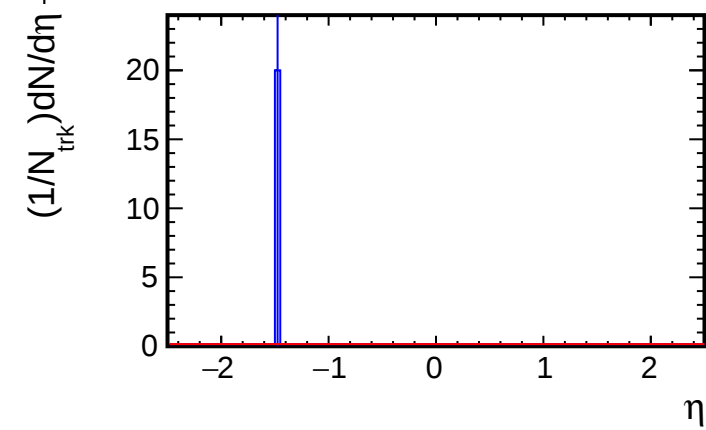
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

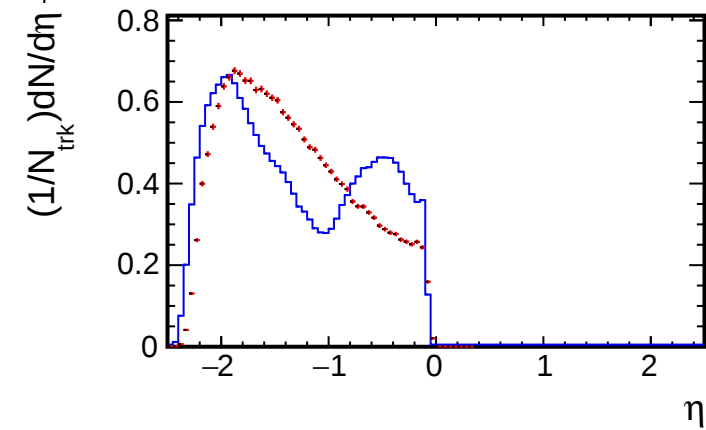


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

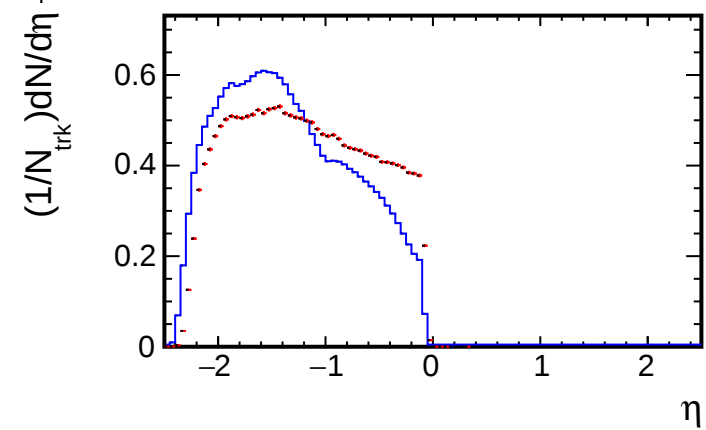
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

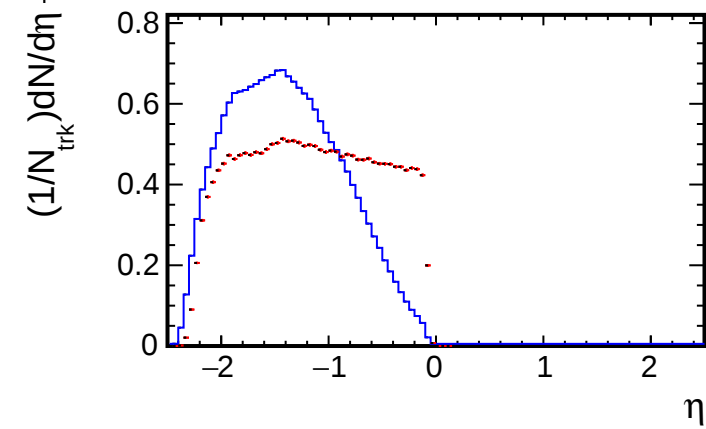
$p_T < 0.5$ (GeV/c)



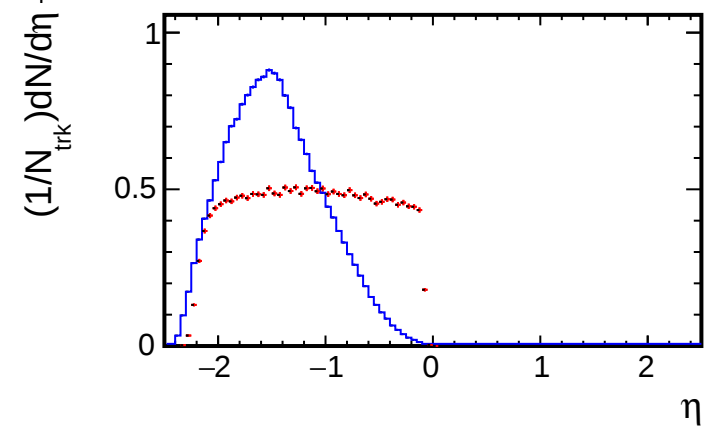
$p_T < 1.0$ (GeV/c)



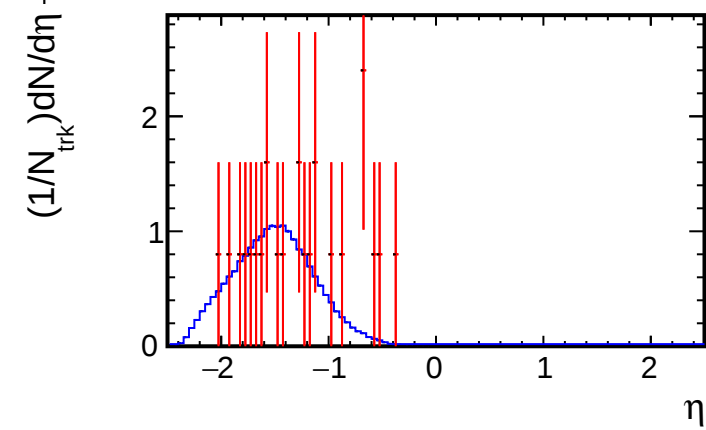
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

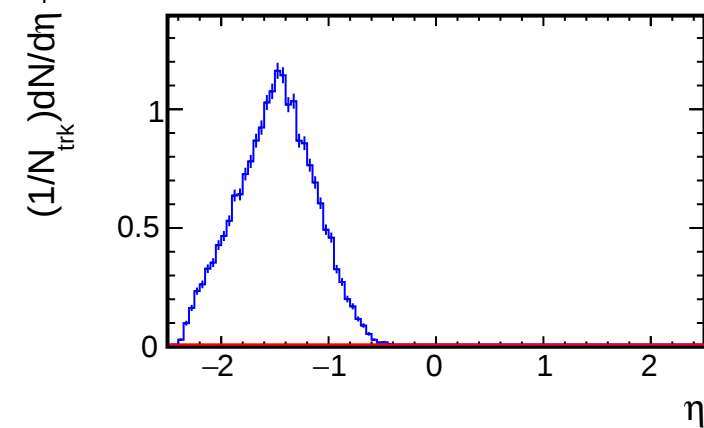


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

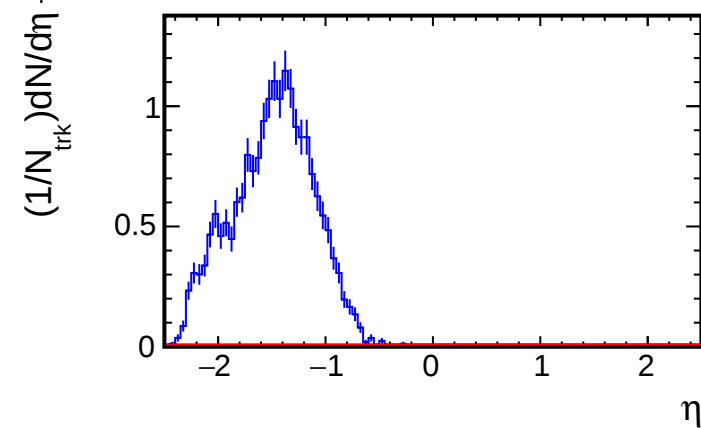
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of η for each p_T bin

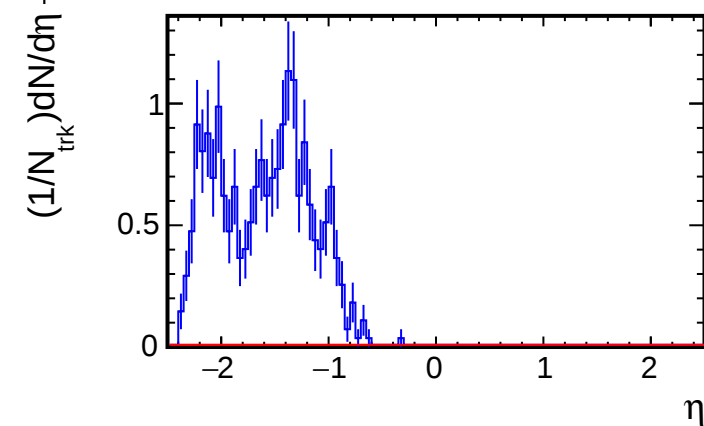
$p_T < 3.0$ (GeV/c)



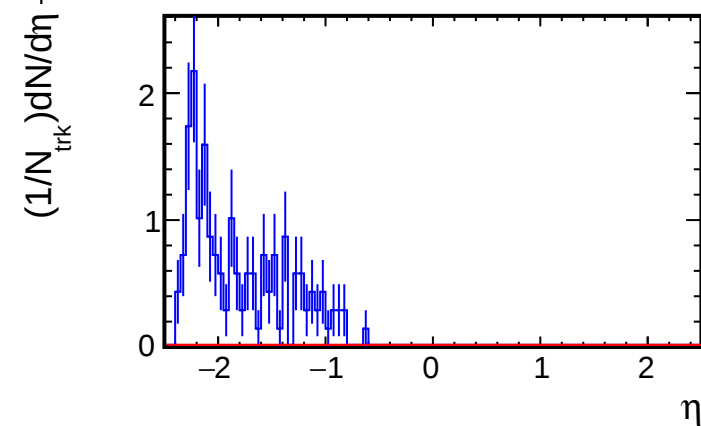
$p_T < 3.5$ (GeV/c)



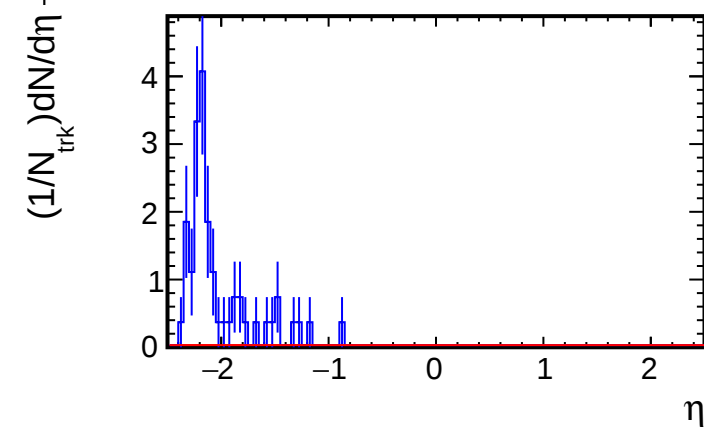
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

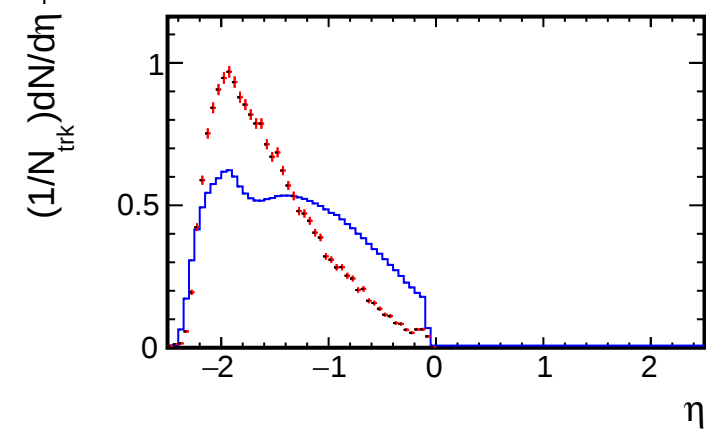


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

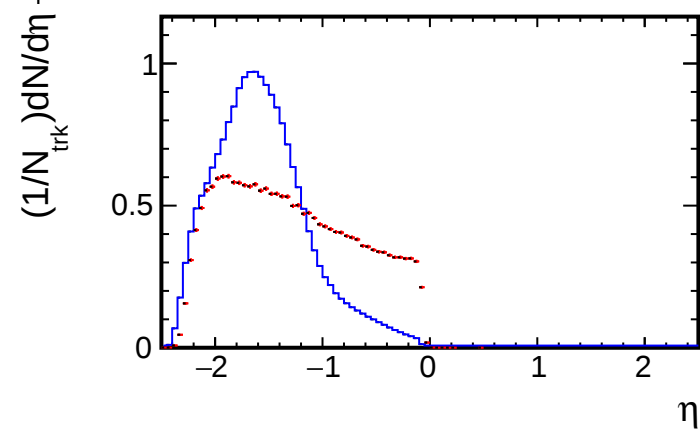
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of η for each p_T bin

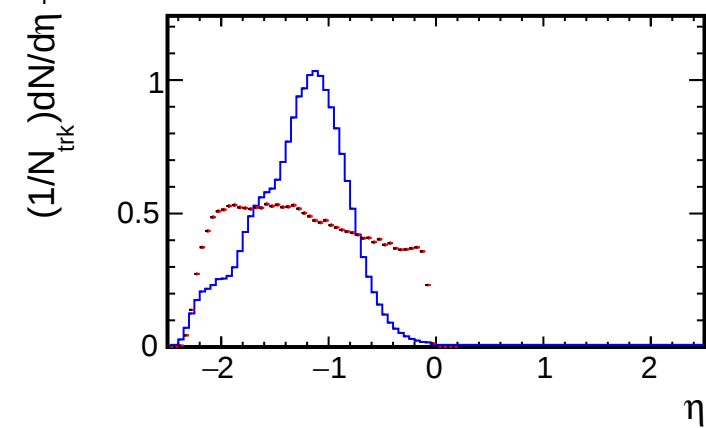
$p_T < 0.5$ (GeV/c)



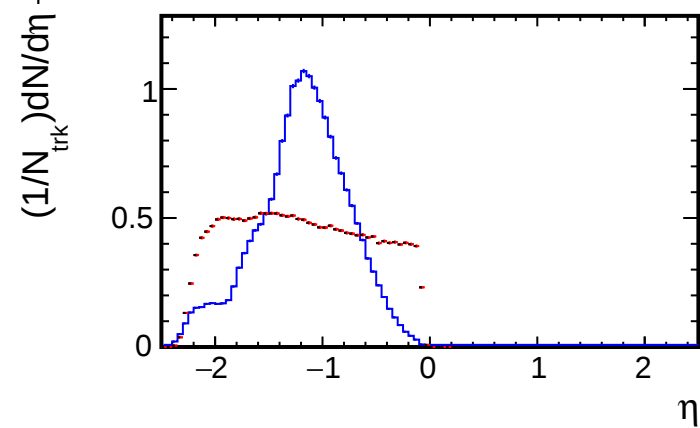
$p_T < 1.0$ (GeV/c)



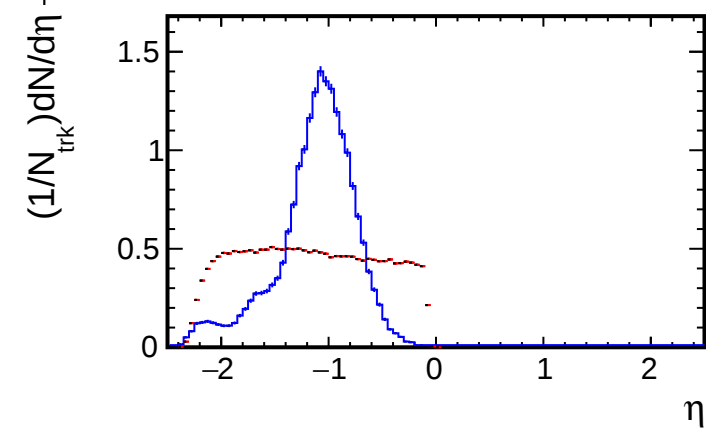
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

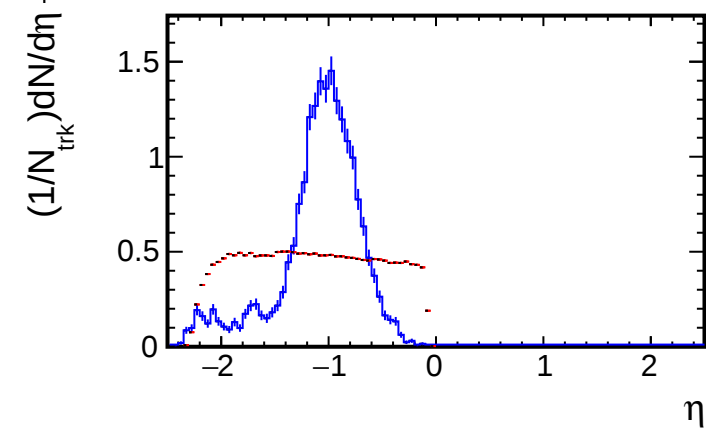


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

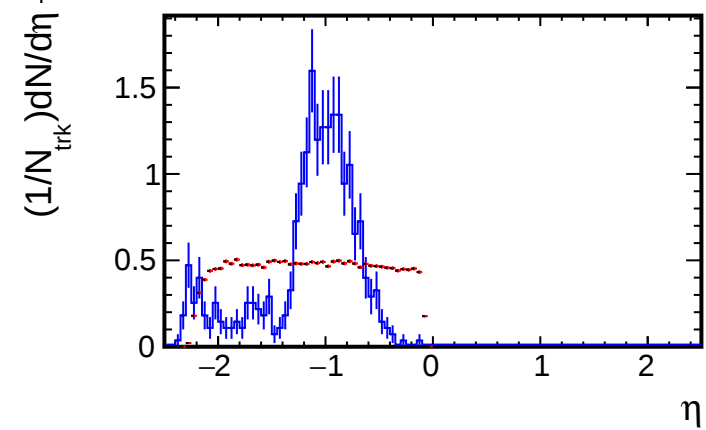
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Projection of η for each p_T bin

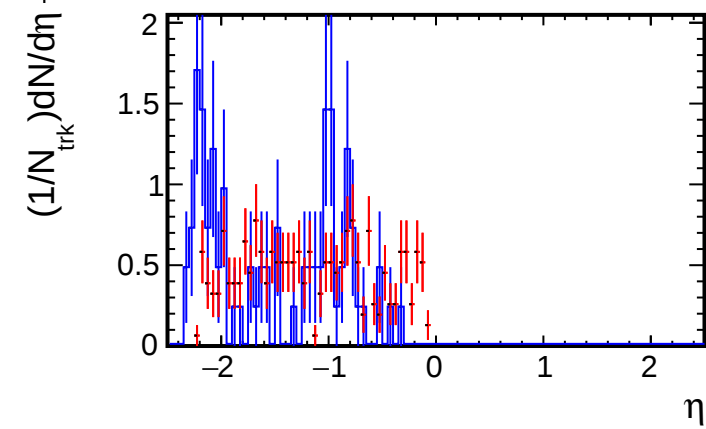
$p_T < 3.0$ (GeV/c)



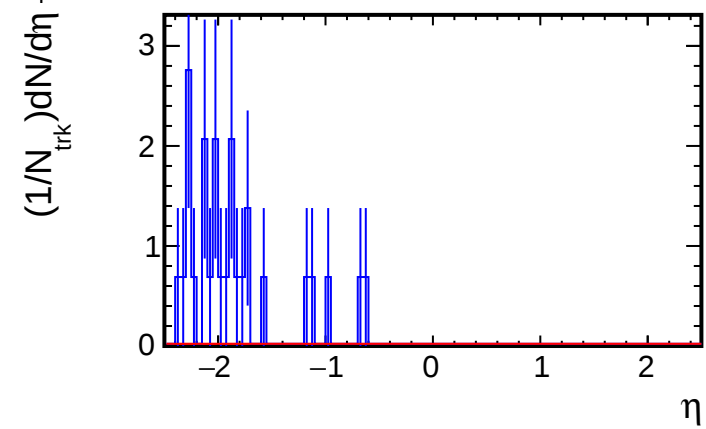
$p_T < 3.5$ (GeV/c)



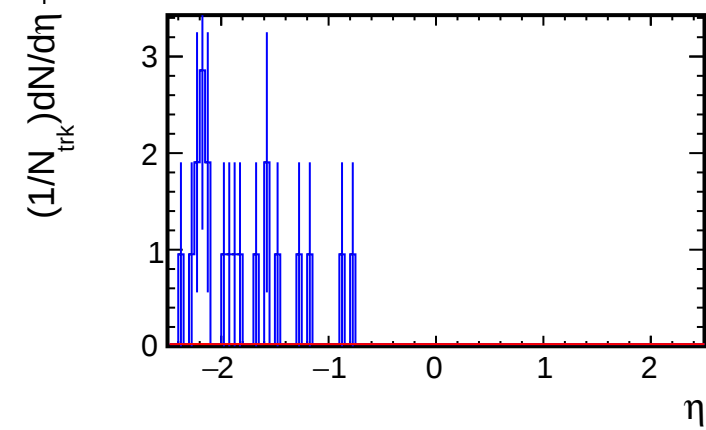
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

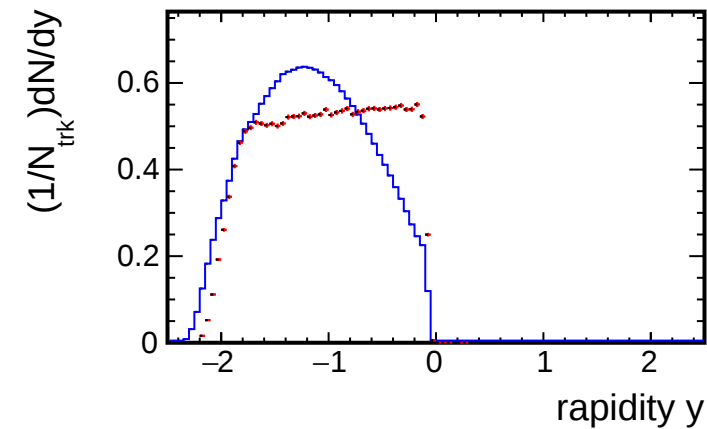


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

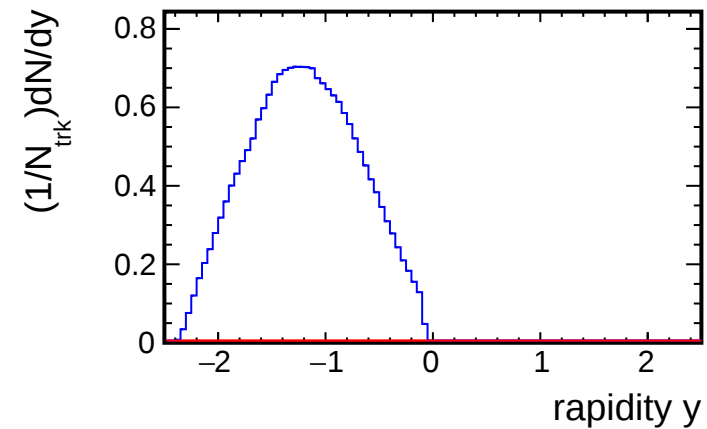
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of y for each p_T bin

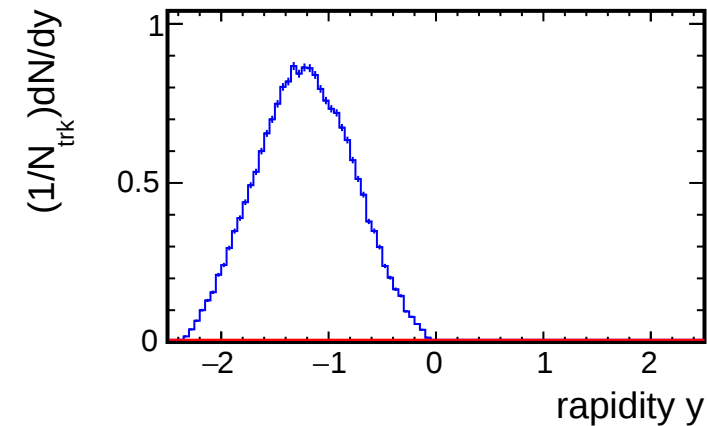
$p_T < 0.5$ (GeV/c)



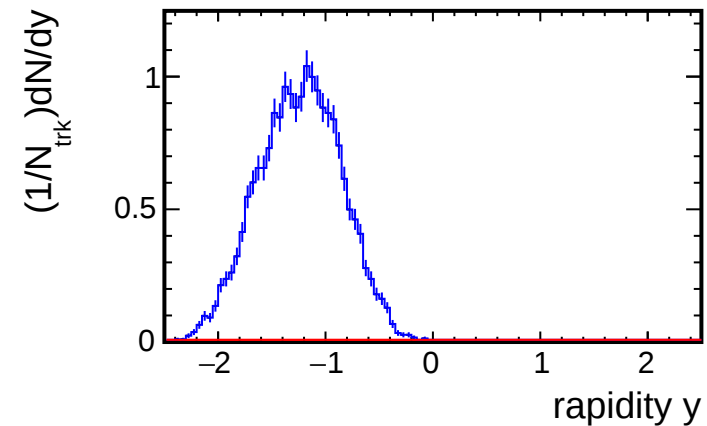
$p_T < 1.0$ (GeV/c)



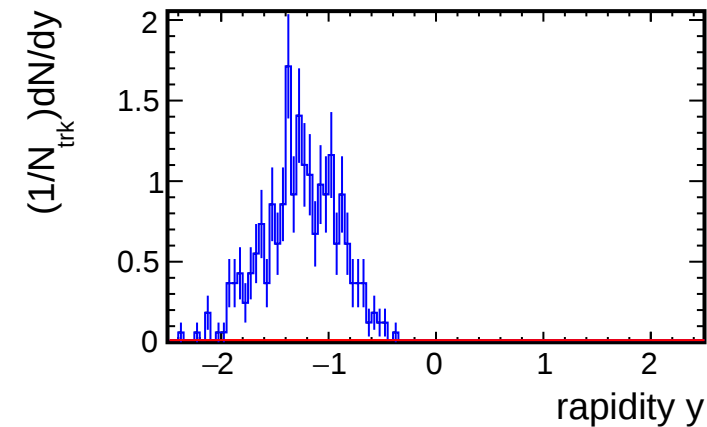
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



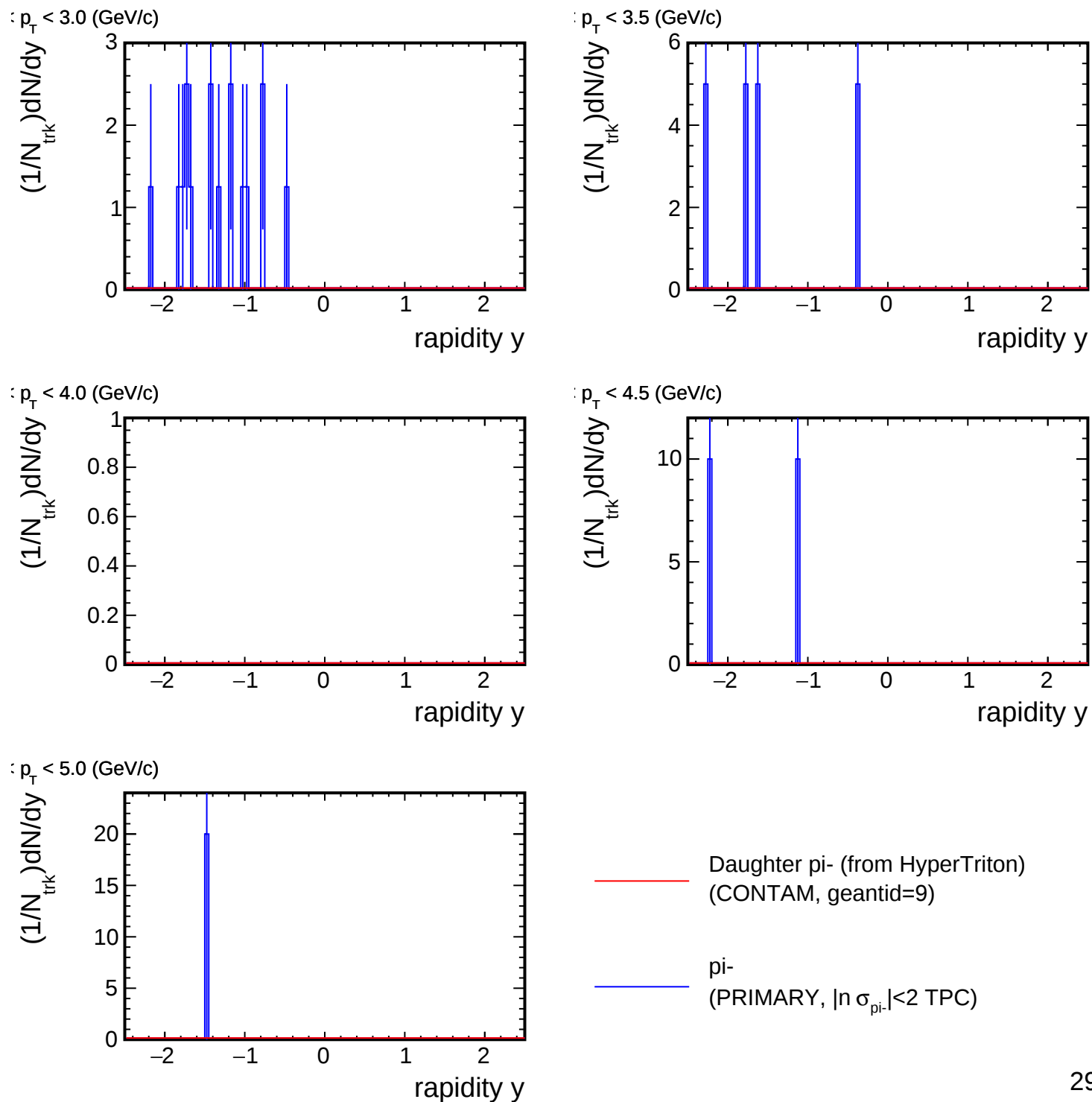
$p_T < 2.5$ (GeV/c)



— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

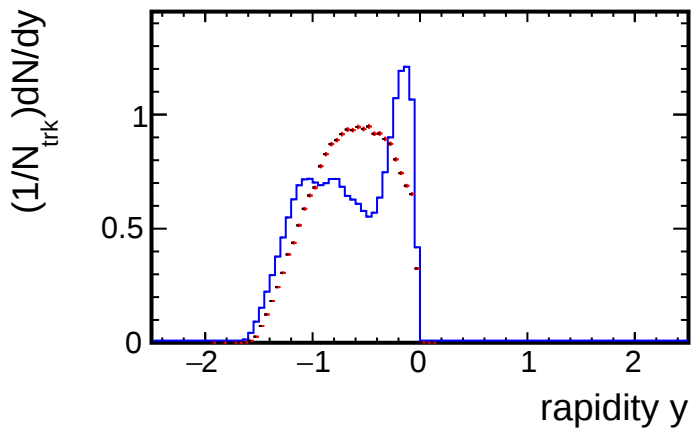
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of y for each p_T bin

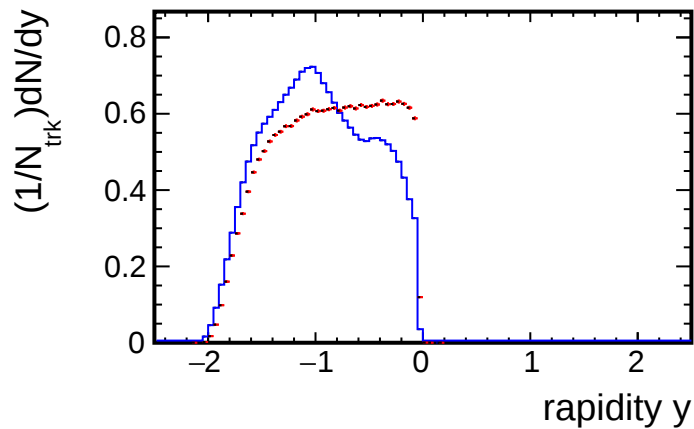


Projection of y for each p_T bin

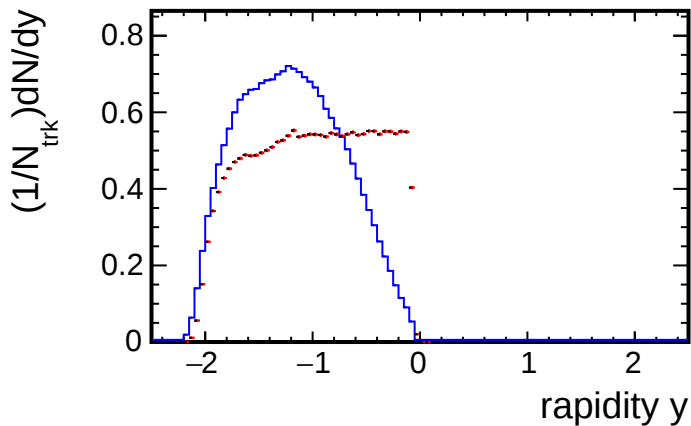
$p_T < 0.5$ (GeV/c)



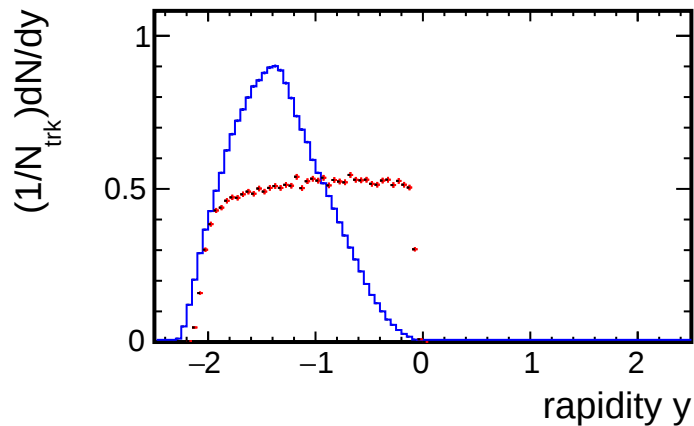
$p_T < 1.0$ (GeV/c)



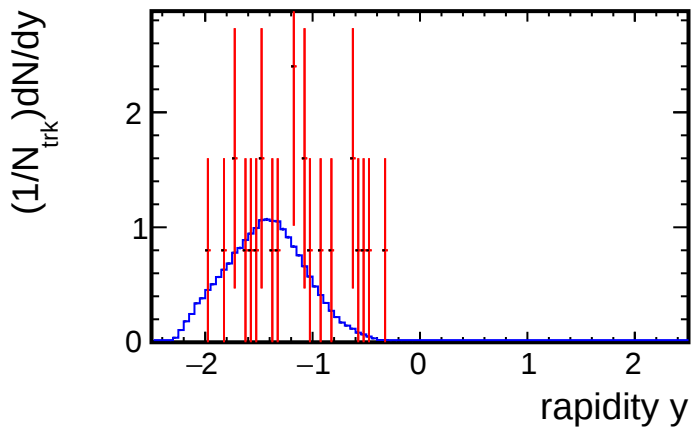
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

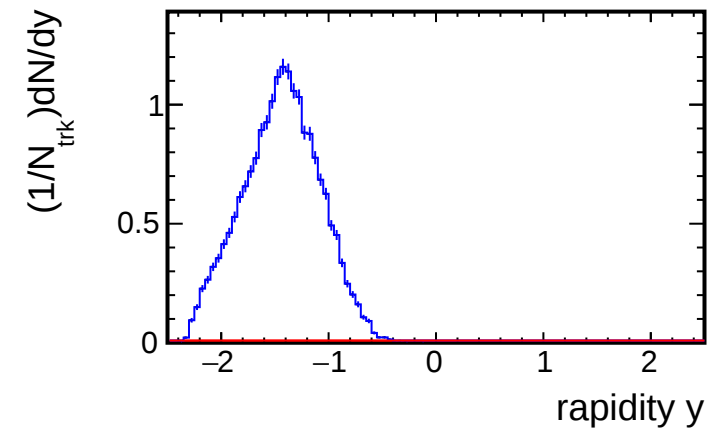


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

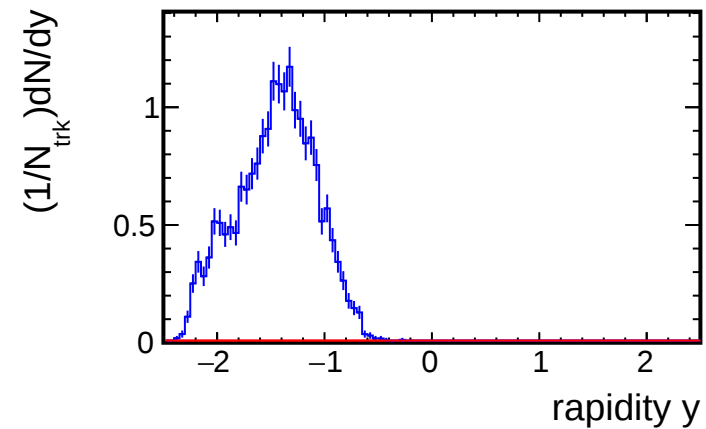
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Projection of y for each p_T bin

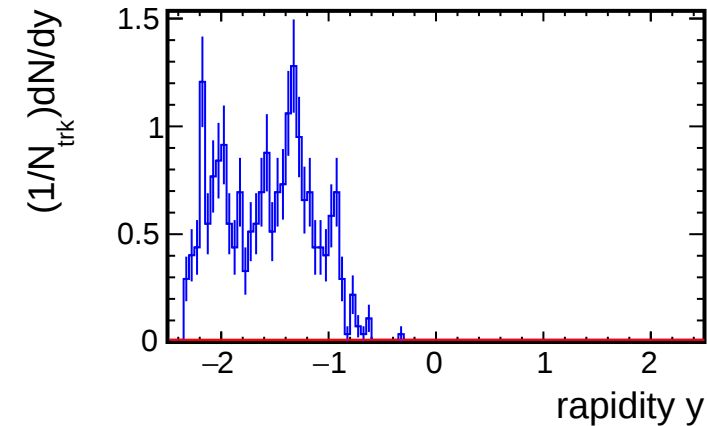
$p_T < 3.0$ (GeV/c)



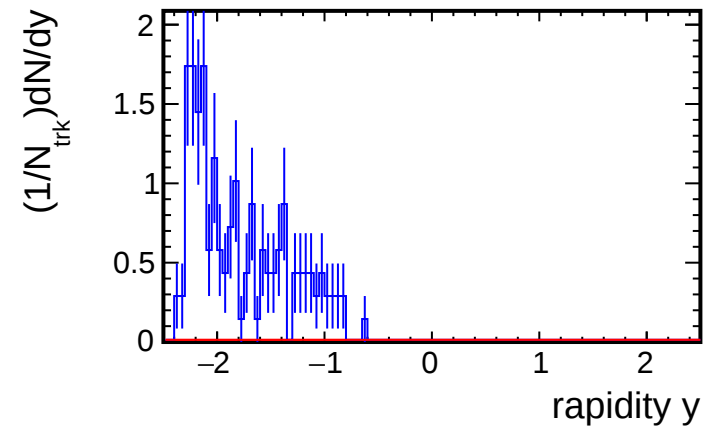
$p_T < 3.5$ (GeV/c)



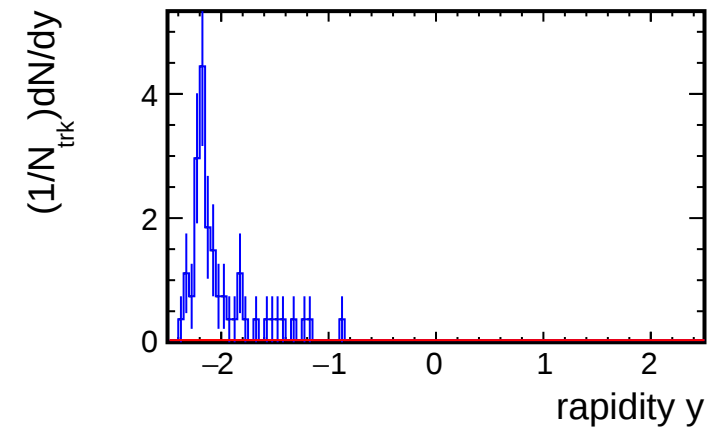
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

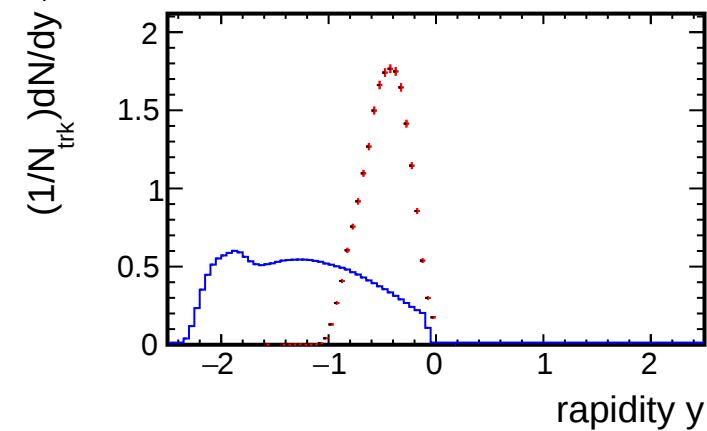


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

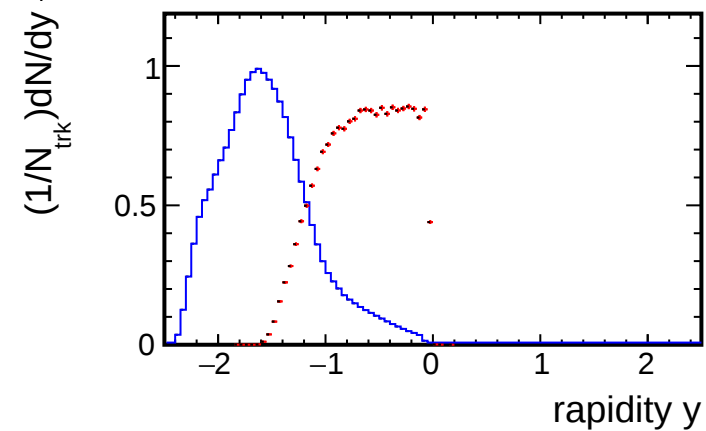
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of y for each p_T bin

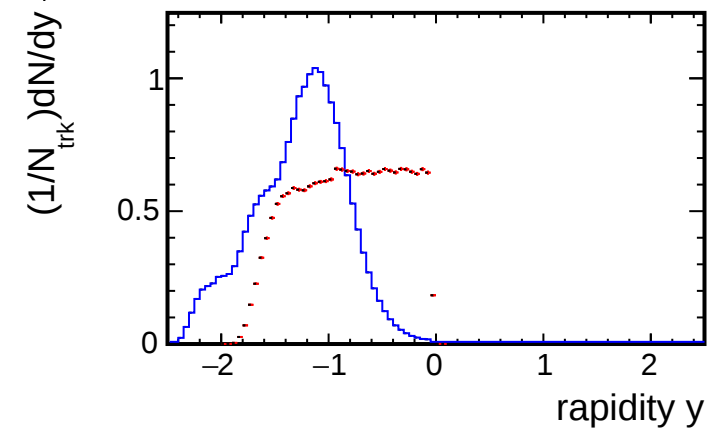
$p_T < 0.5$ (GeV/c)



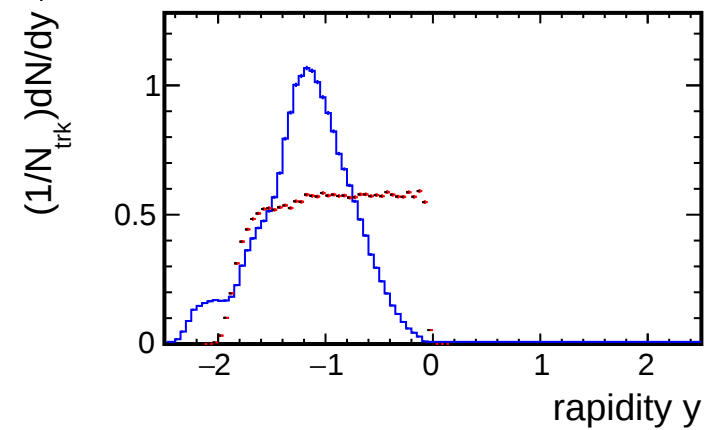
$p_T < 1.0$ (GeV/c)



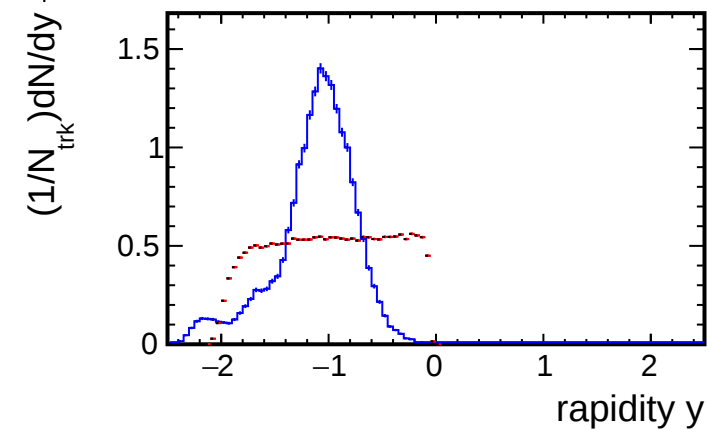
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

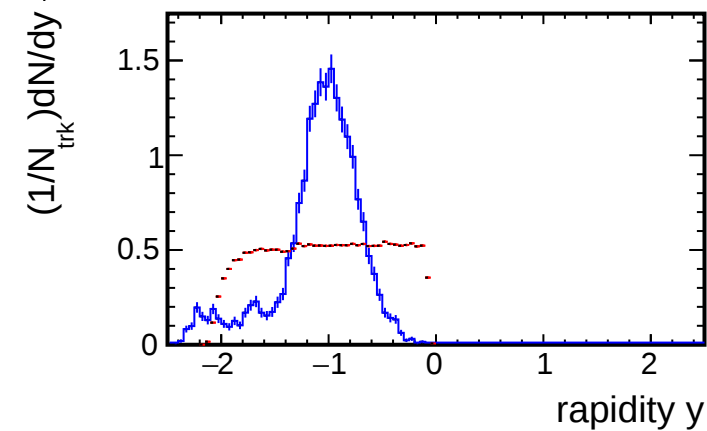


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

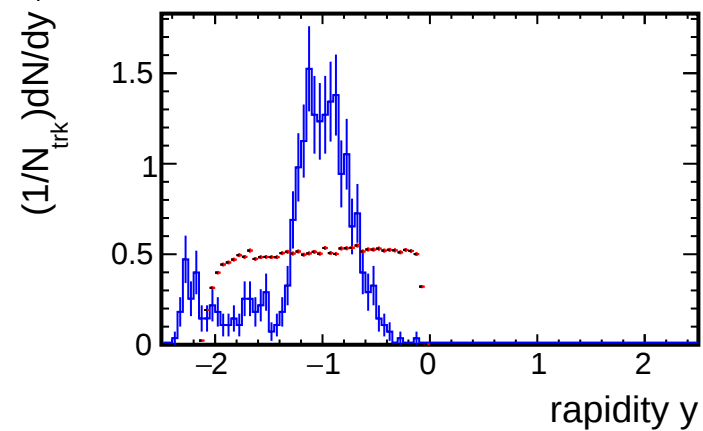
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Projection of y for each p_T bin

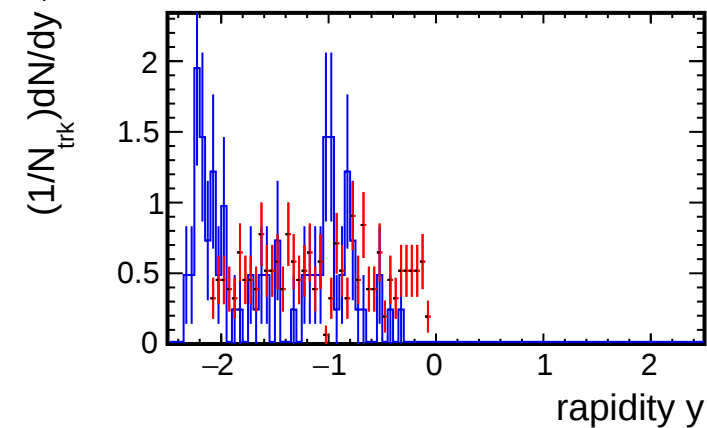
$p_T < 3.0$ (GeV/c)



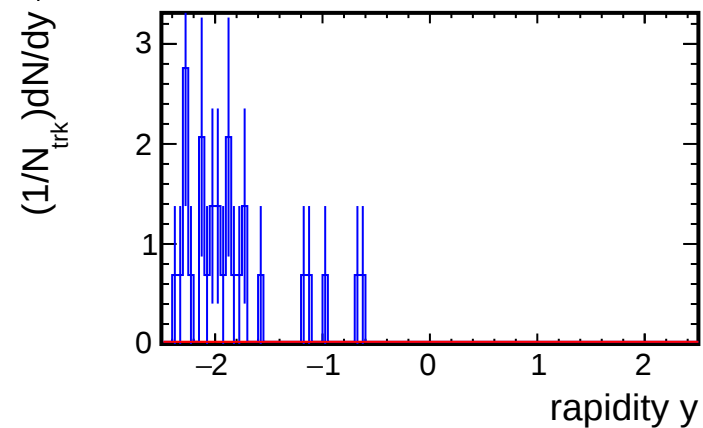
$p_T < 3.5$ (GeV/c)



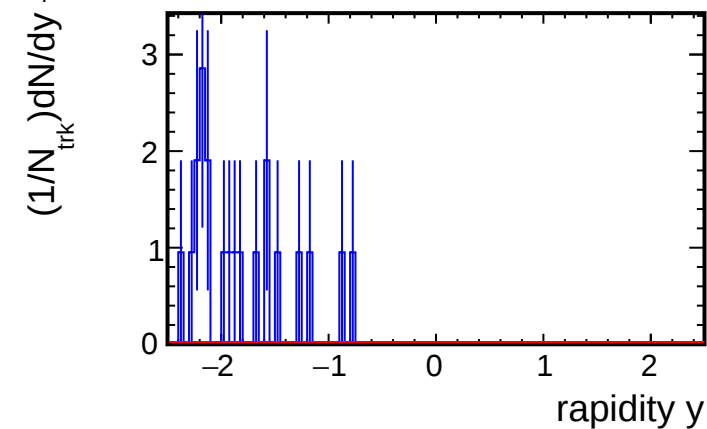
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



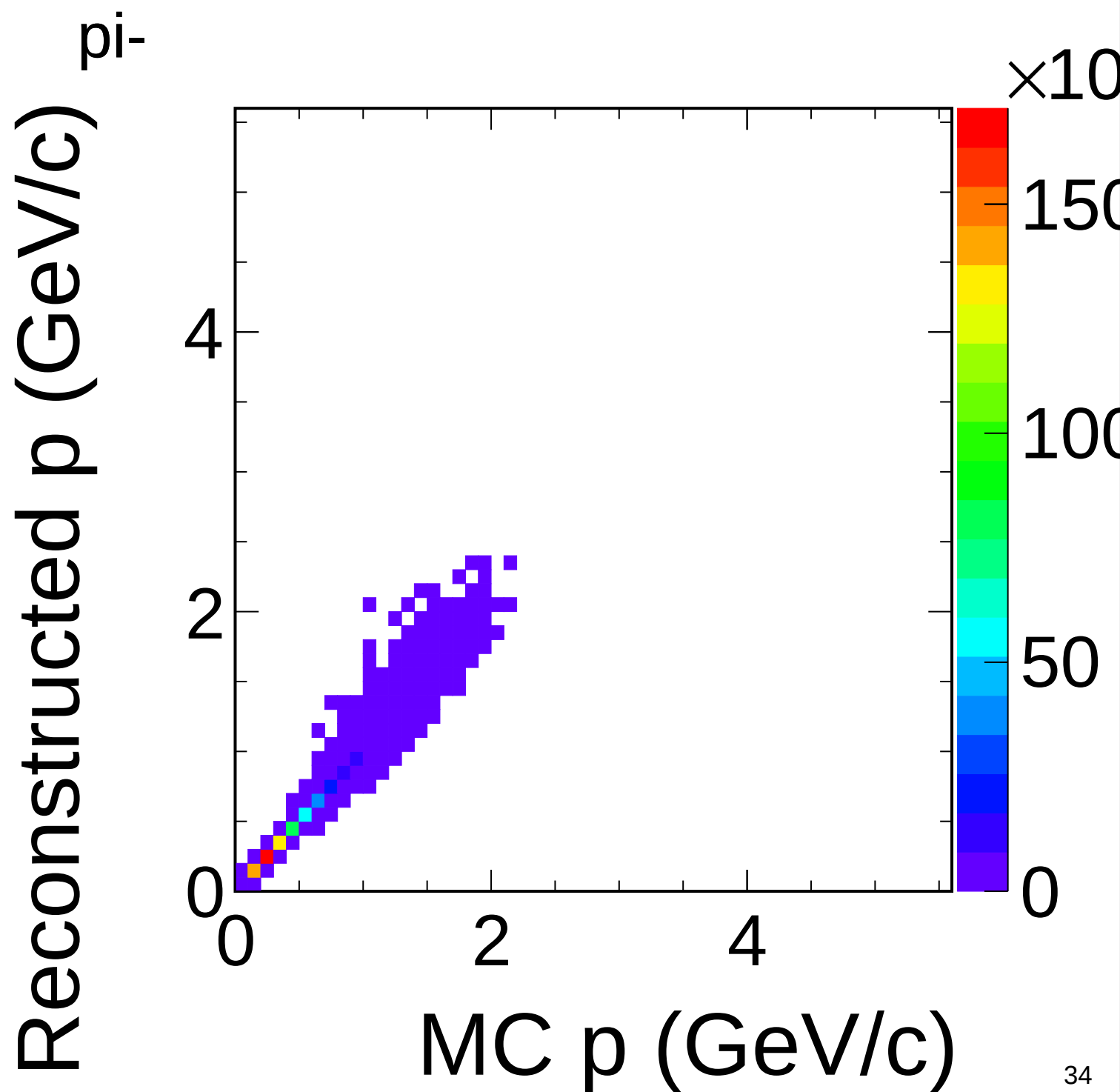
$p_T < 5.0$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

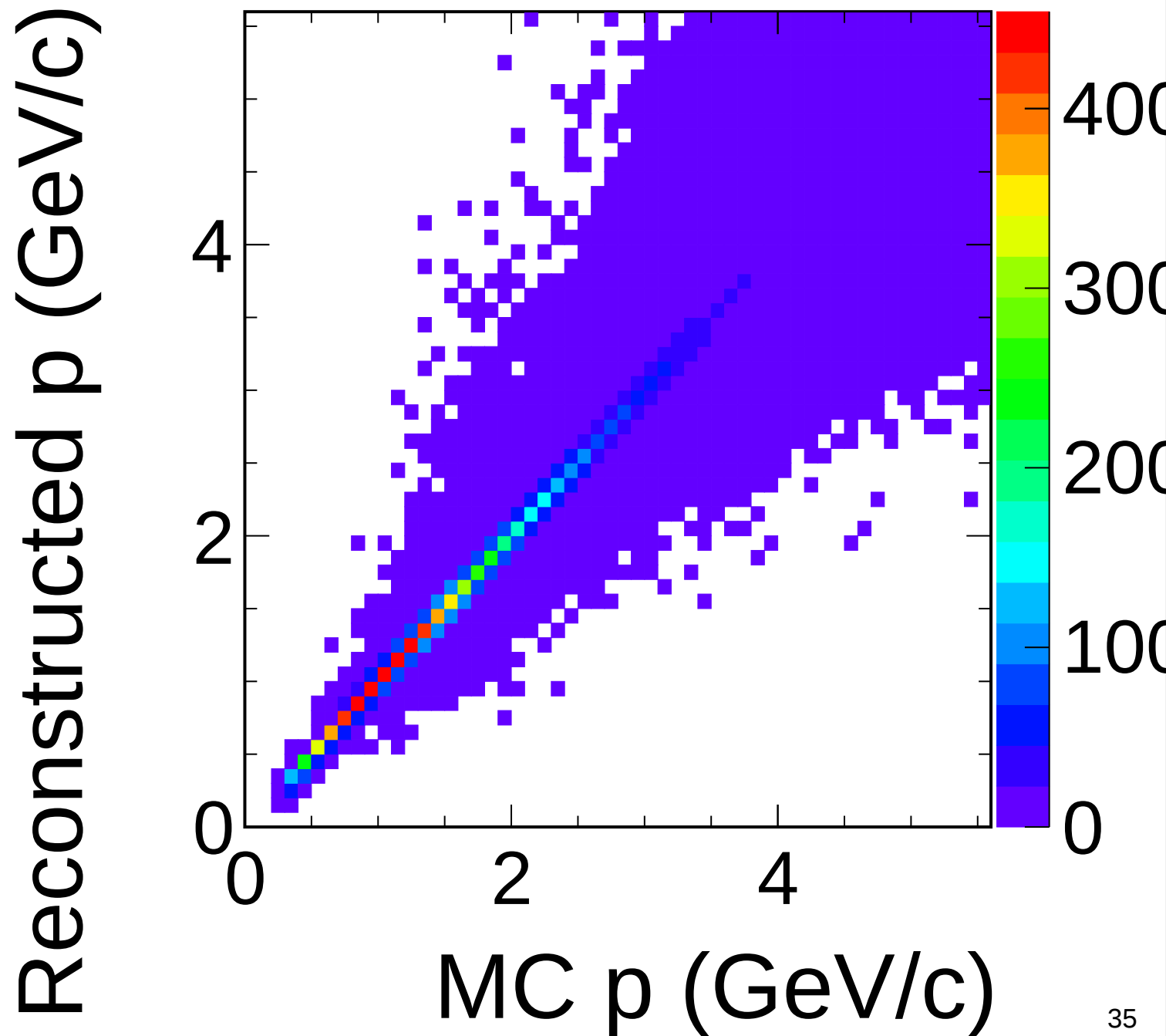
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Reconstructed momentum vs MC momentum



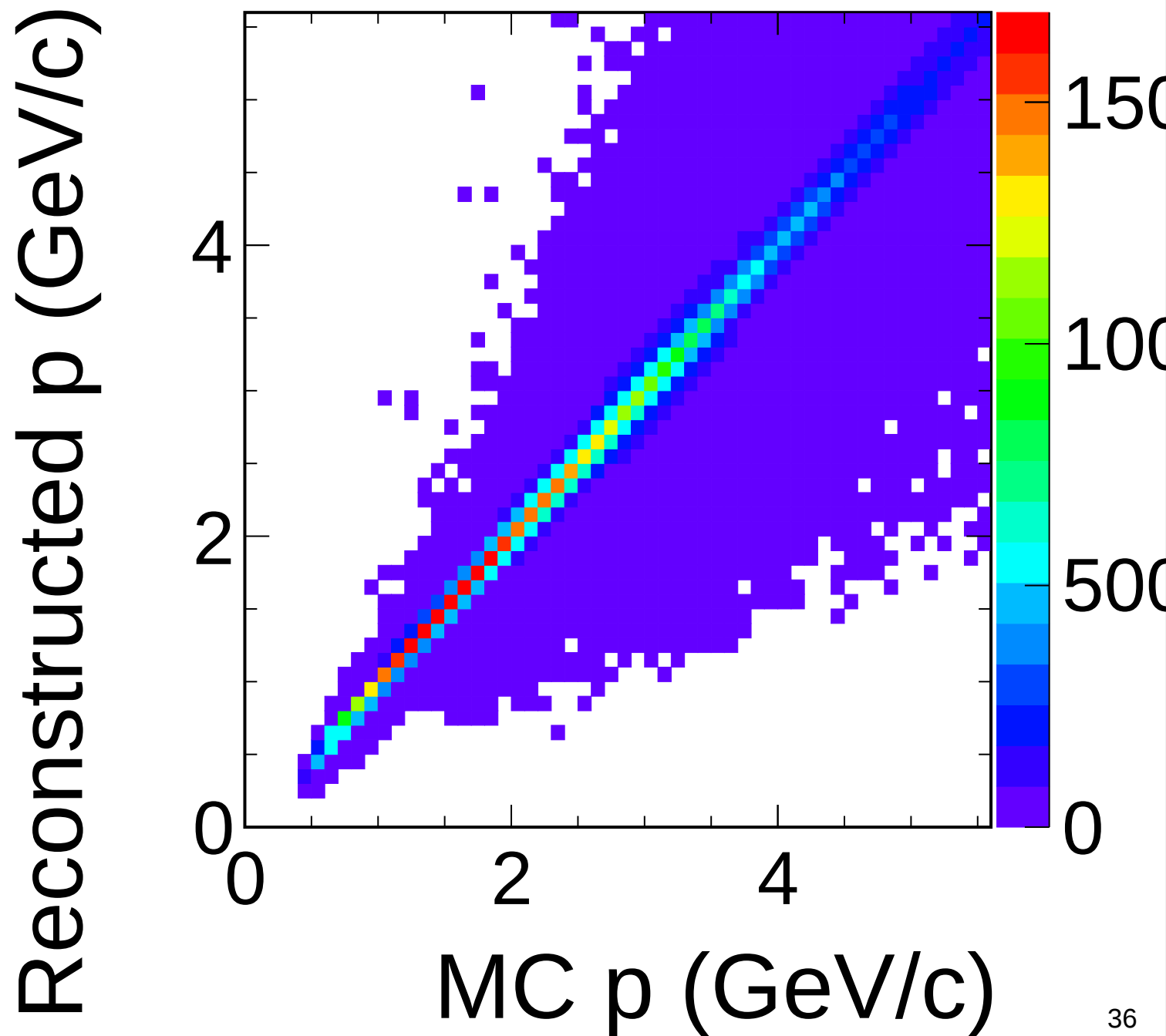
Reconstructed momentum vs MC momentum

proton

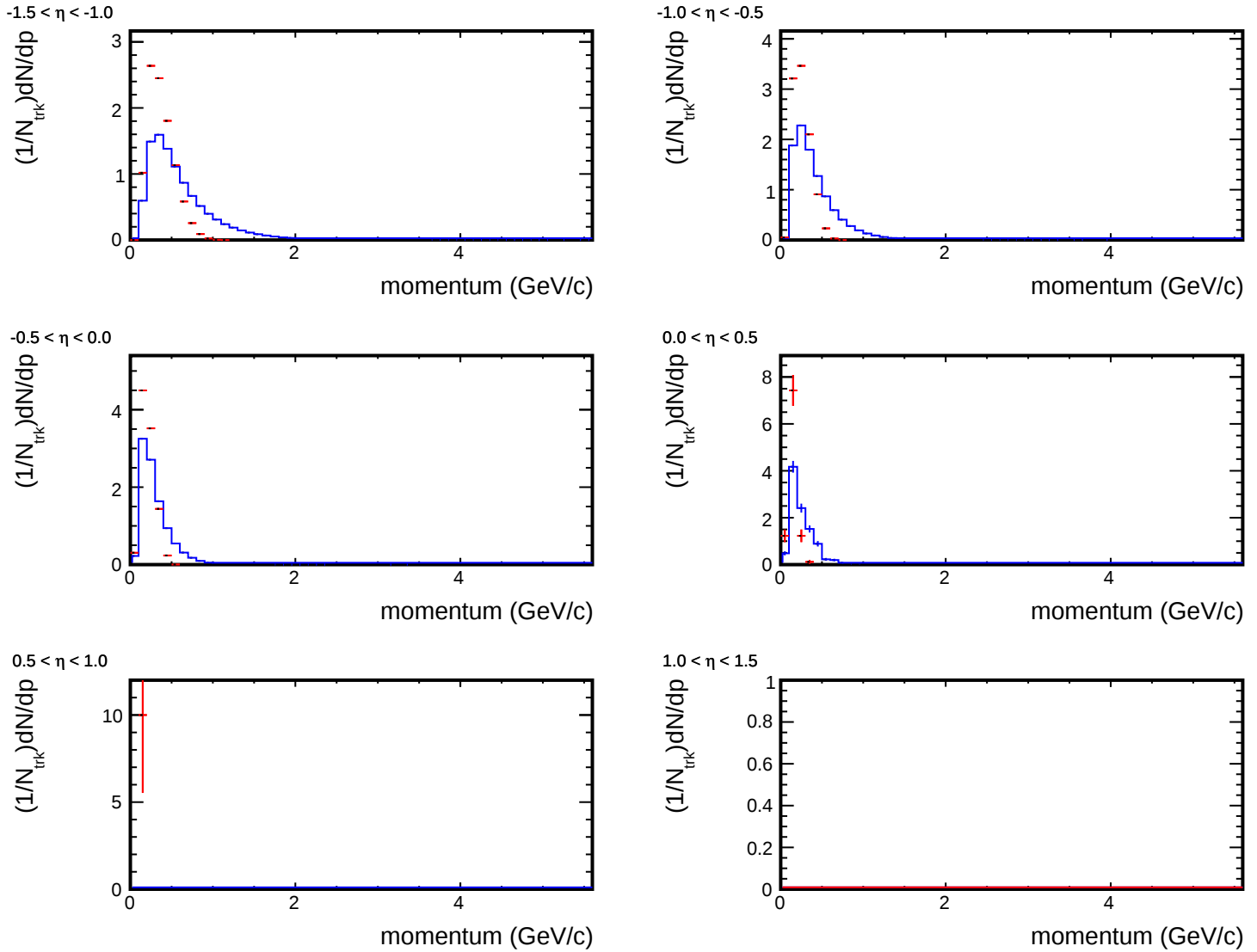


Reconstructed momentum vs MC momentum

deuteron



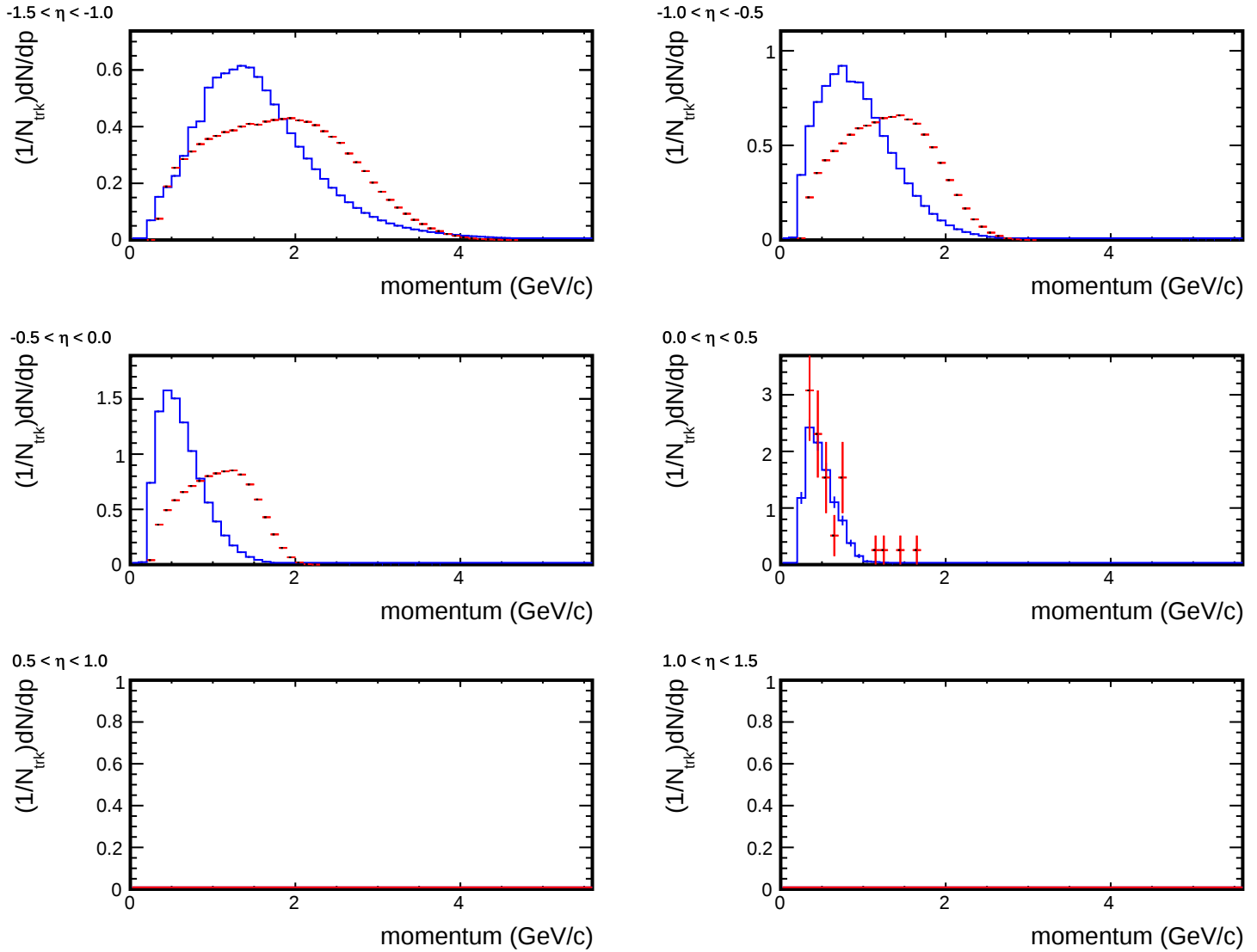
Projection of p for each η bin



— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|n \sigma_{\text{pi-}}| < 2$ TPC)

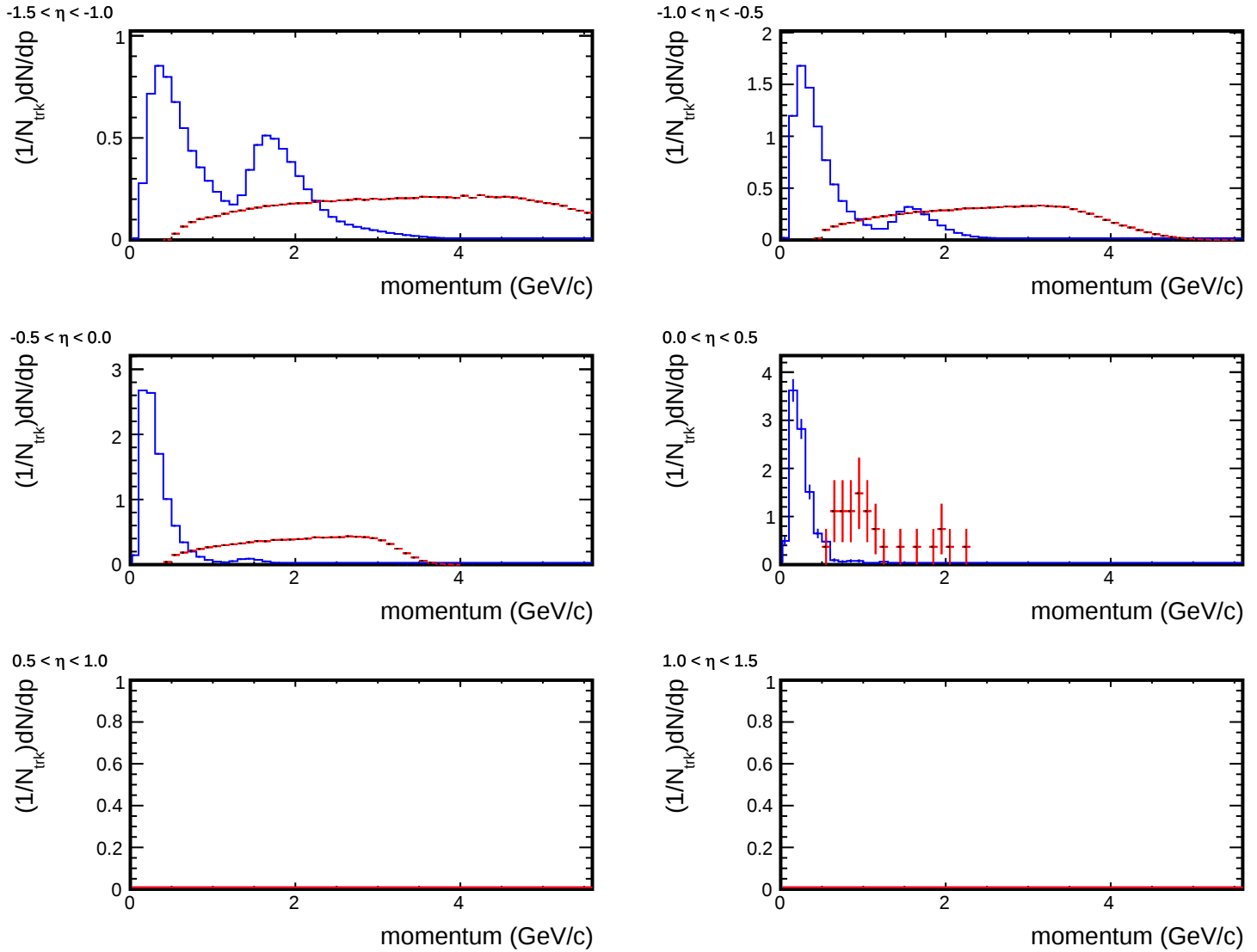
Projection of p for each η bin



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

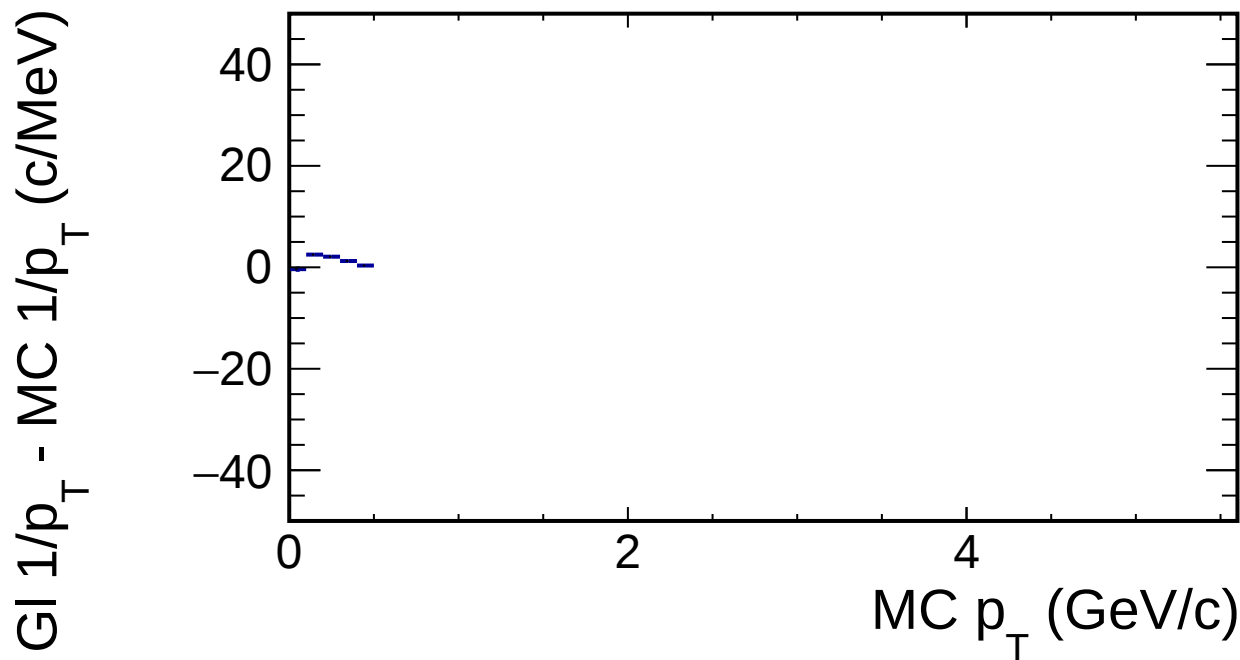
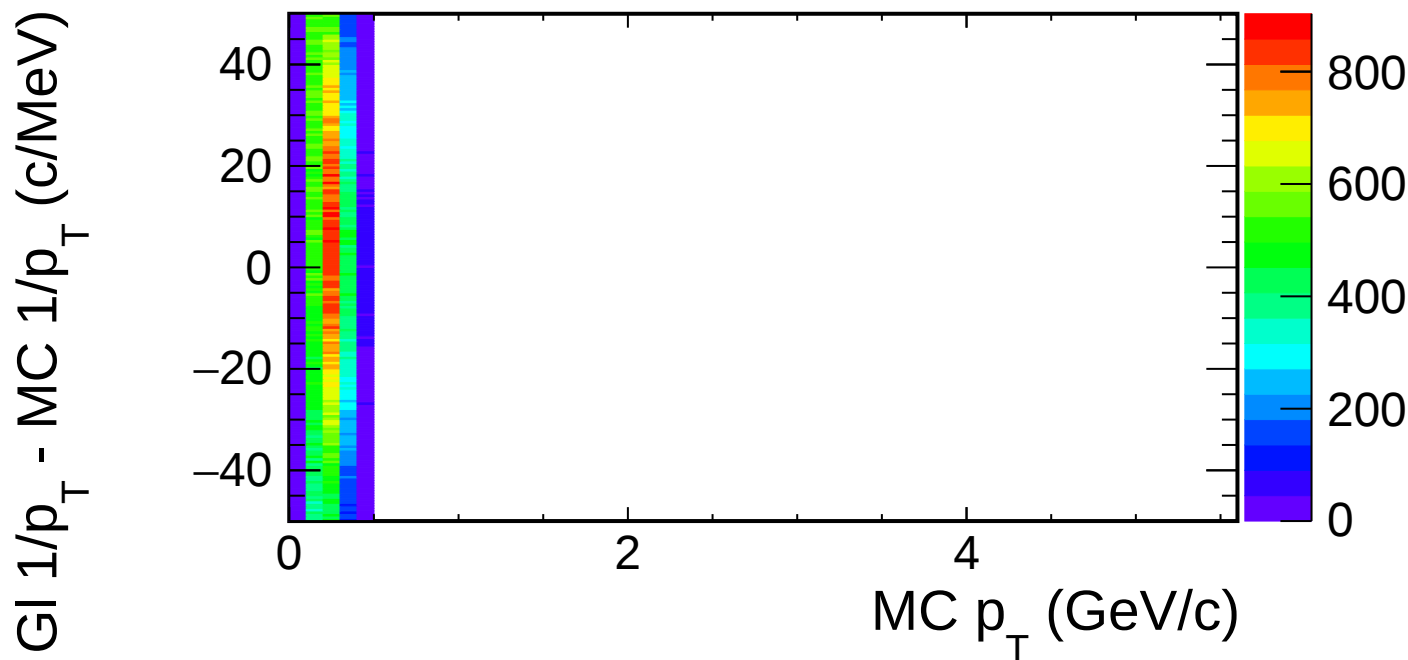
Projection of p for each η bin



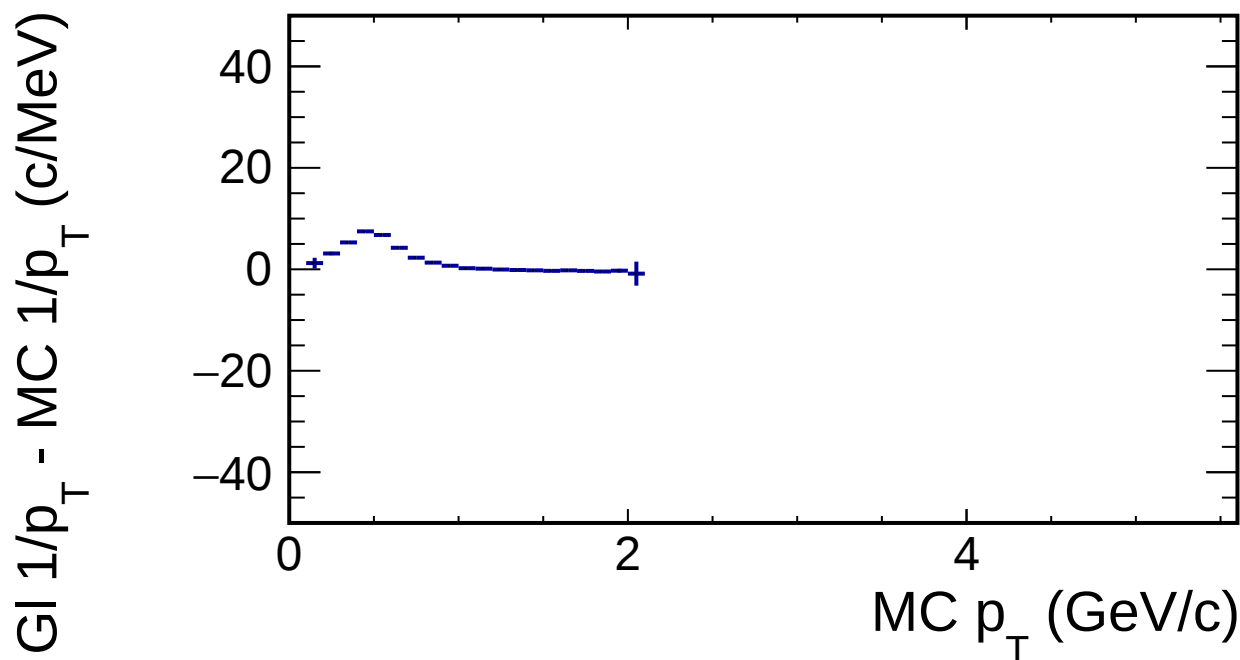
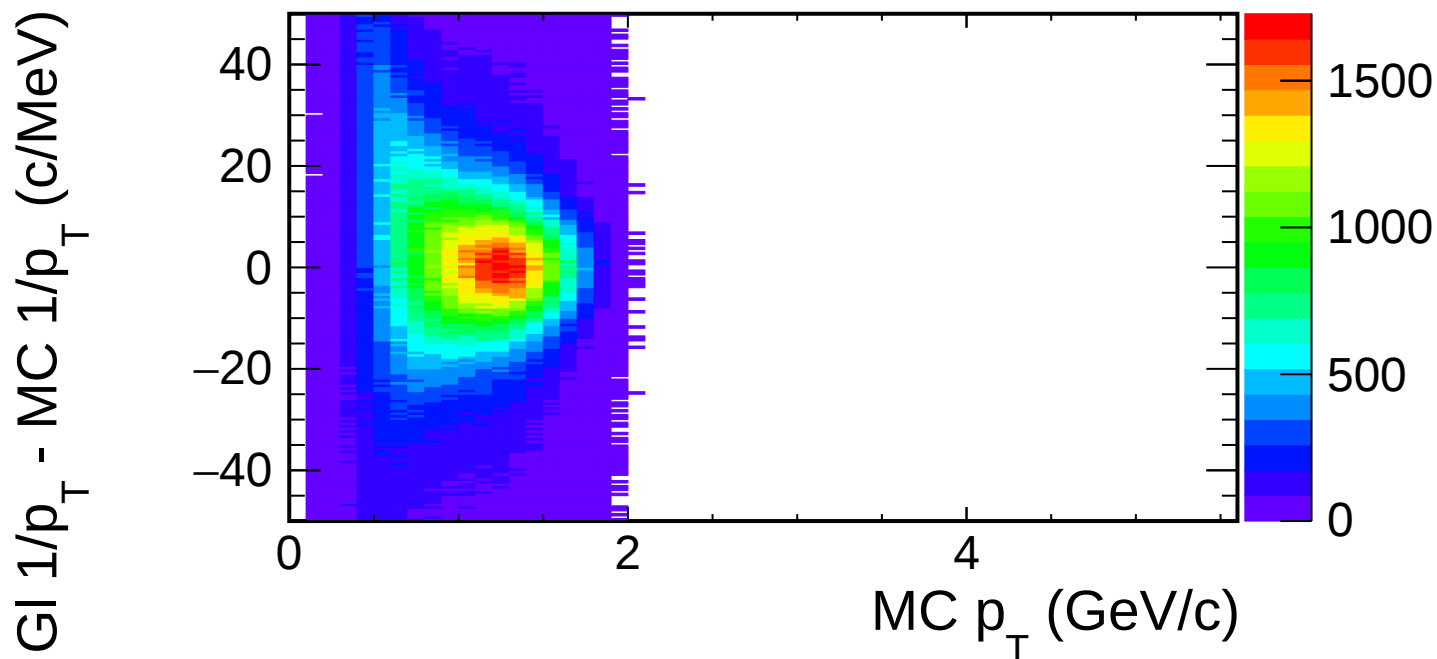
— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— pi+
(PRIMARY, $|n \sigma_{\text{pi}^+}| < 2$ TPC)

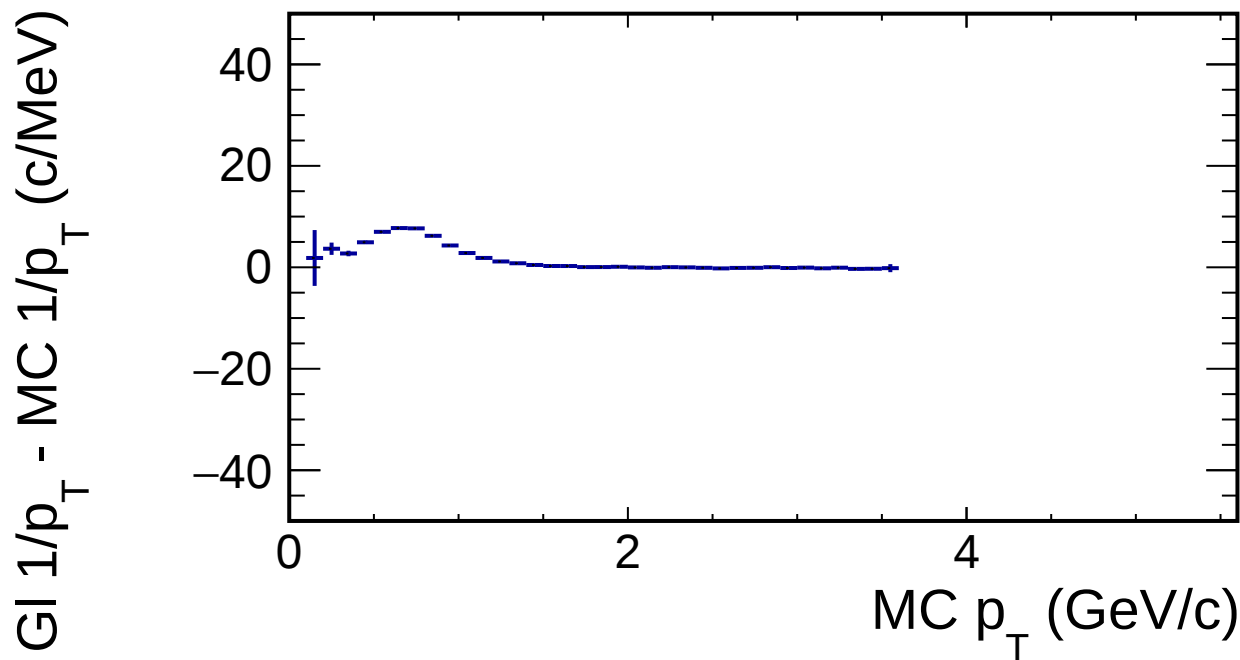
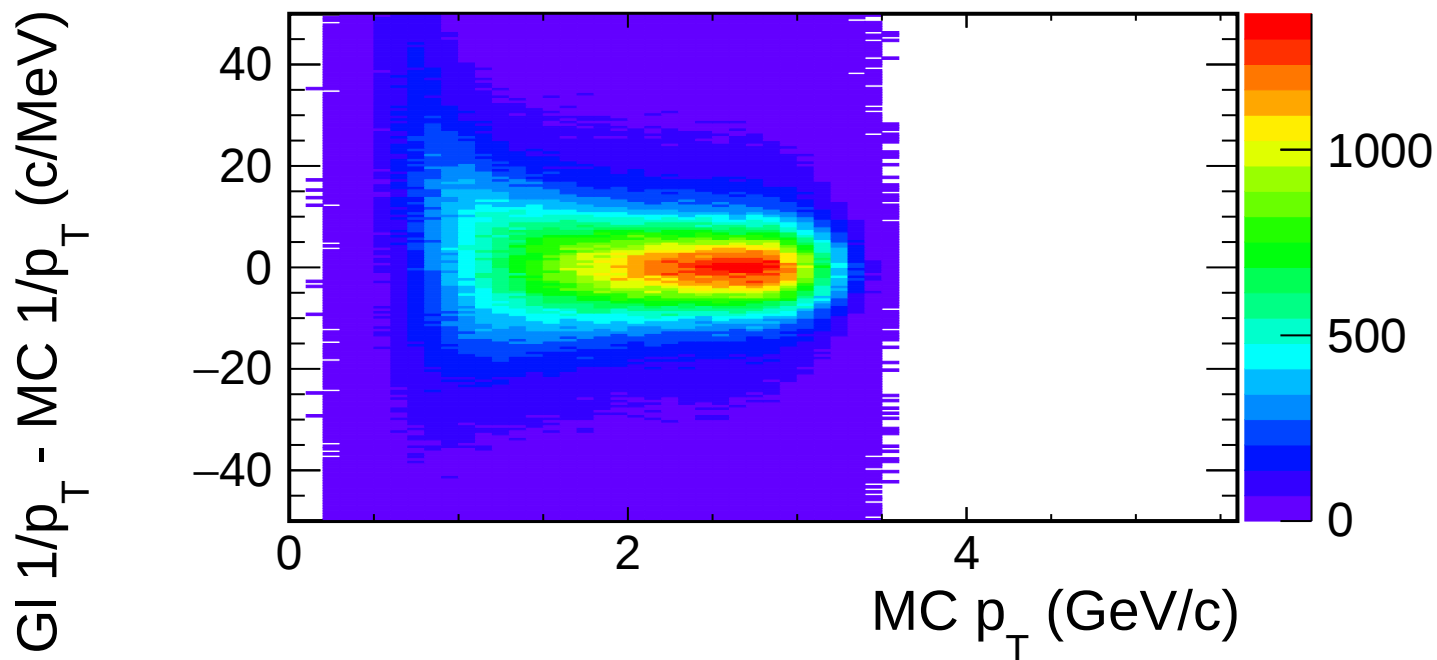
$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (pi-)



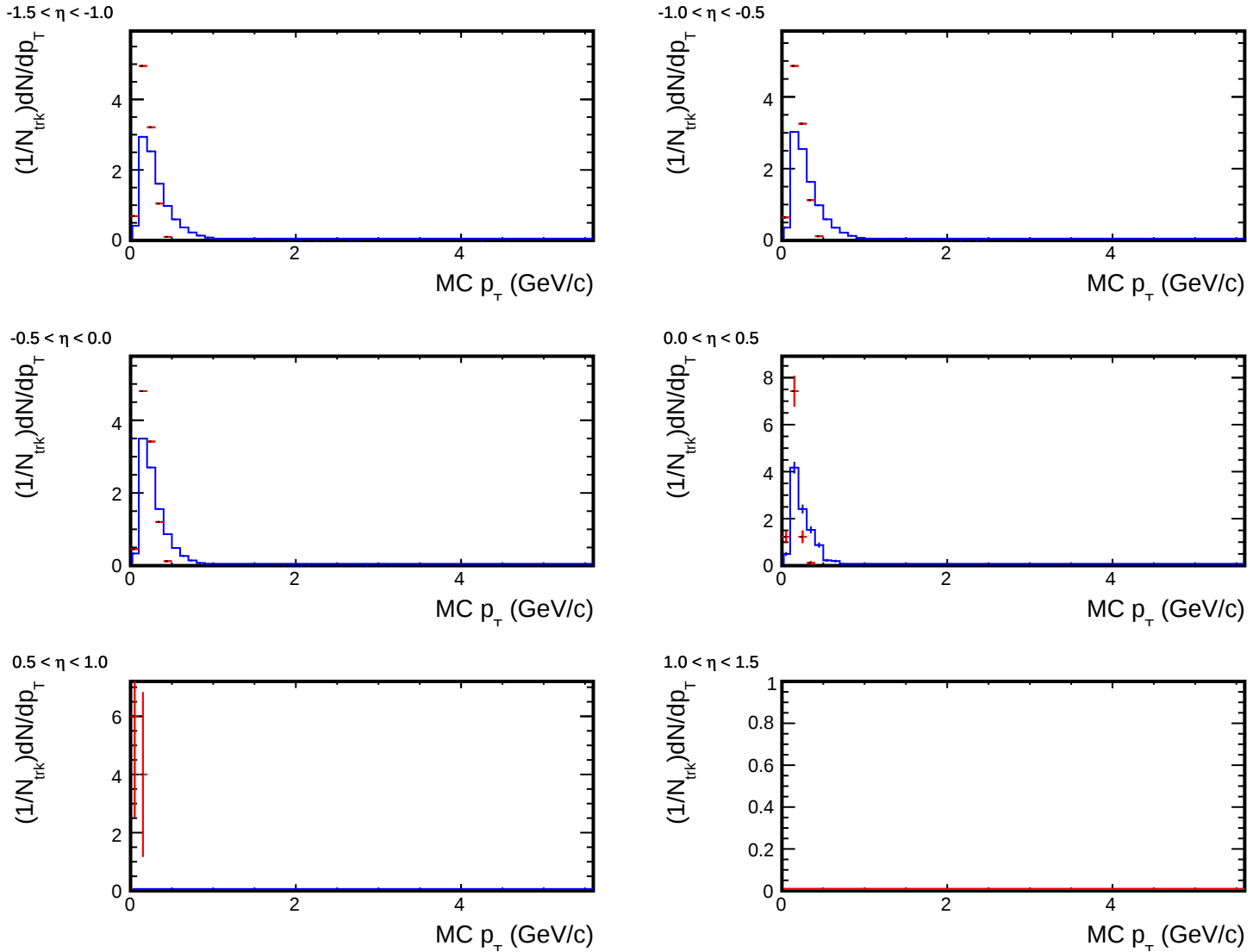
$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (proton)



$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (deuteron)



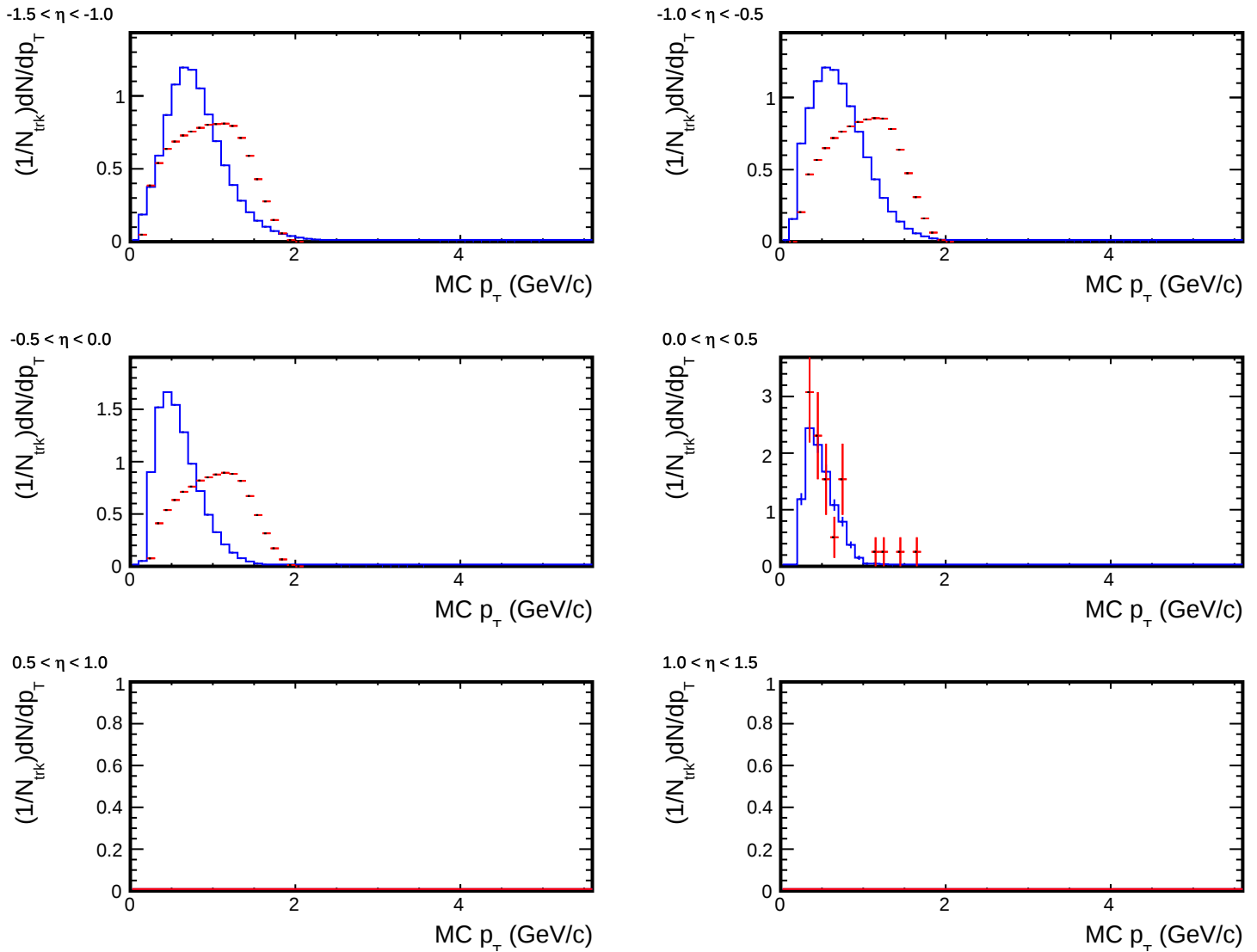
Projection of p_T for each η bin



— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

— π^-
(PRIMARY, $|n \sigma_{\pi^-}| < 2$ TPC)

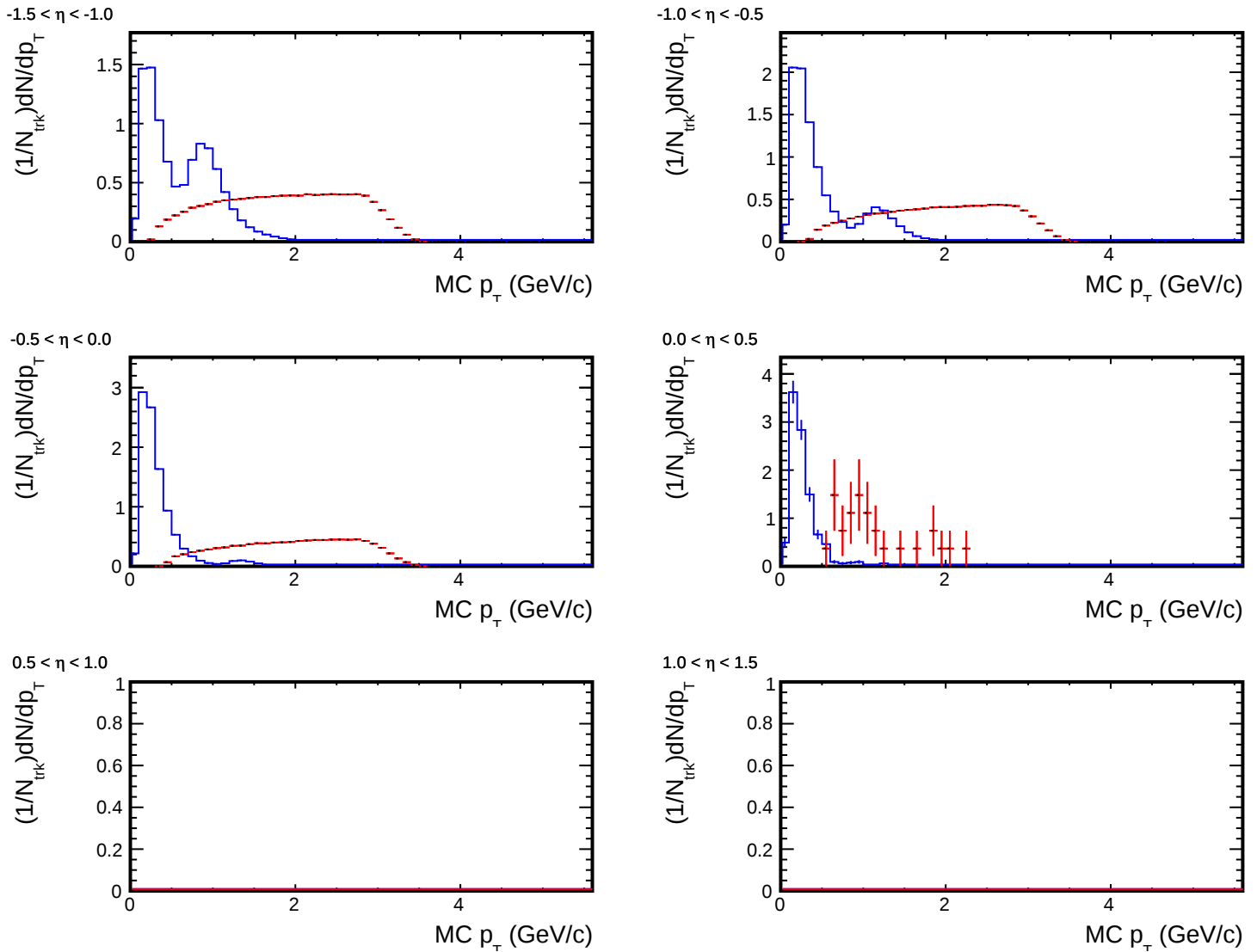
Projection of p_T for each η bin



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|\eta| < 2$ TPC)

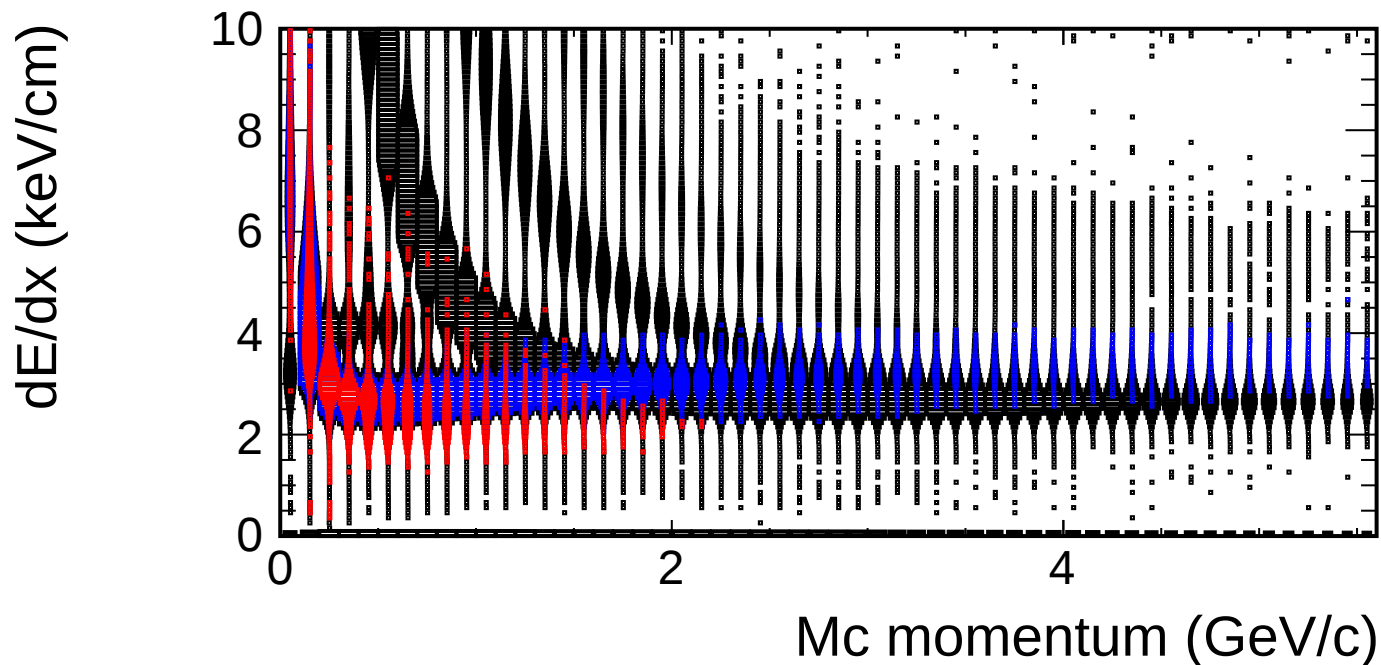
Projection of p_T for each η bin



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

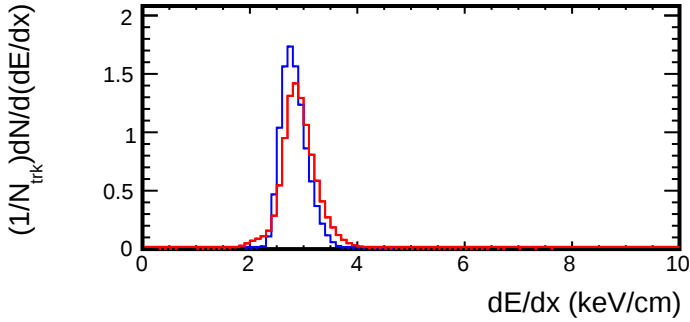
dE/dx vs momentum (Embedding:pi-, Real:pi-)



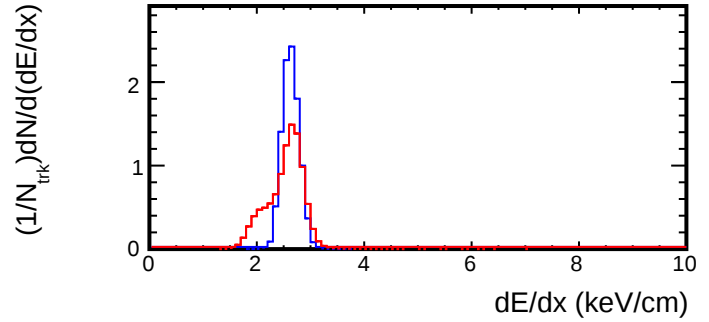
- Daughter π^- (from HyperTriton) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

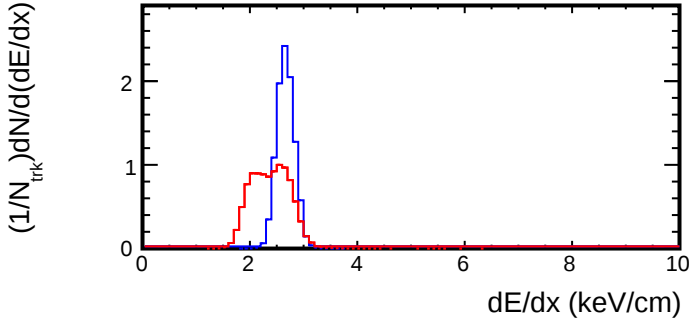
< Mc p < 0.4 GeV/c



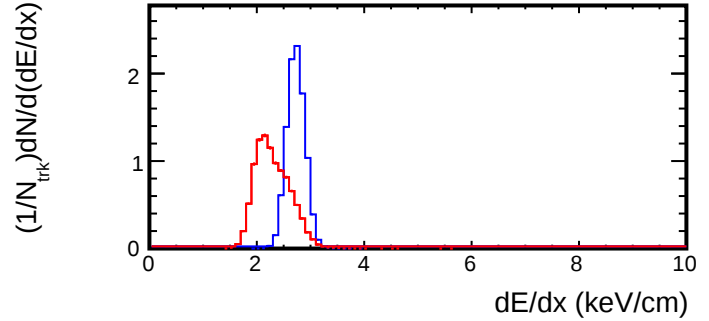
< Mc p < 0.6 GeV/c



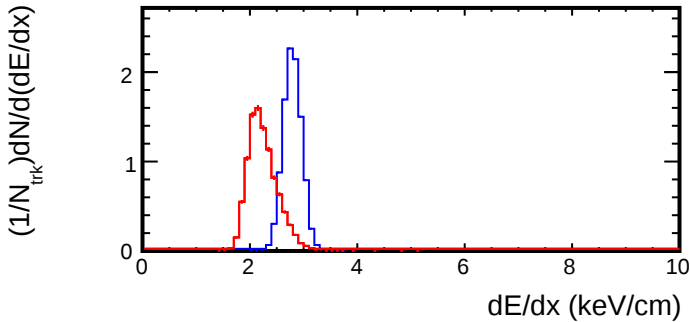
< Mc p < 0.8 GeV/c



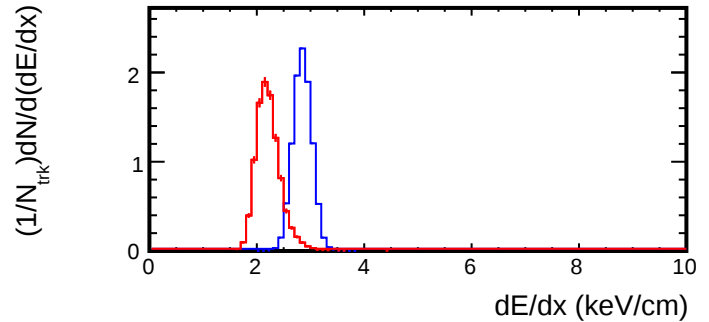
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

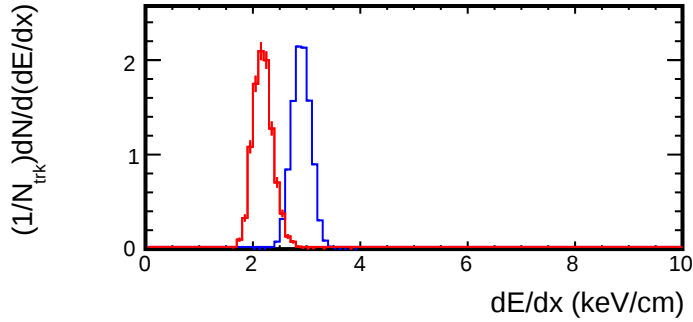


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

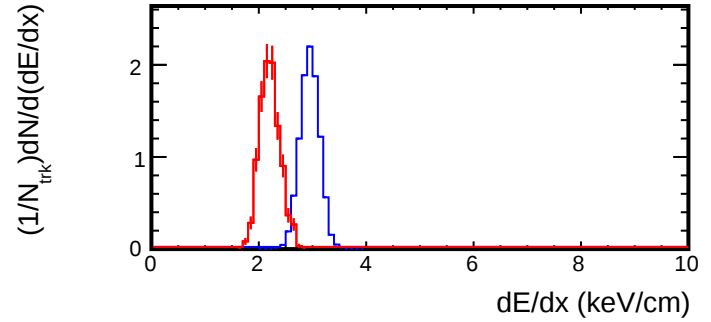
— pi-
(PRIMARY, $|n \sigma_{\pi^-}| < 2$ TPC)

Projection of dE/dx for each p bin

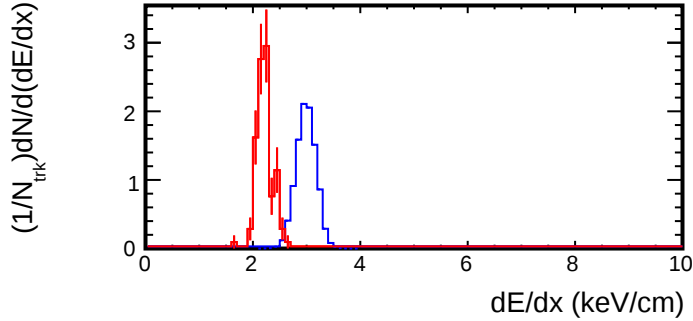
< Mc p < 1.6 GeV/c



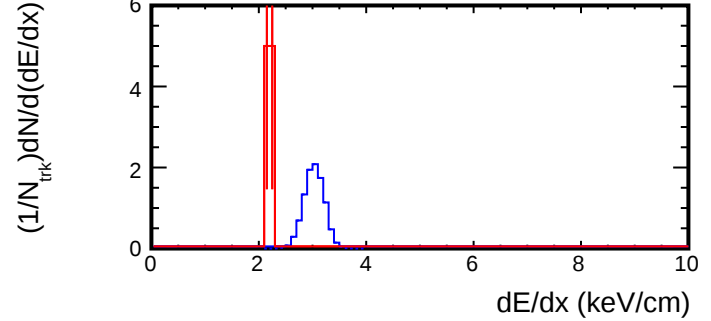
< Mc p < 1.8 GeV/c



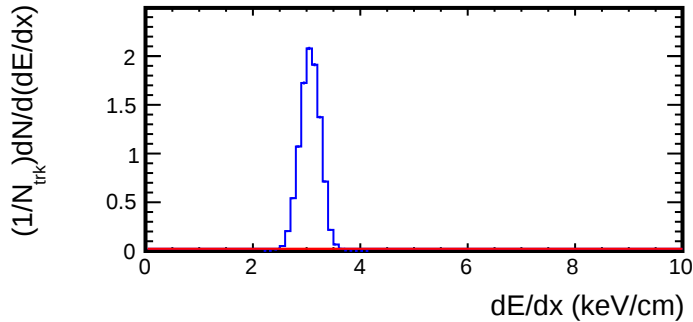
< Mc p < 2.0 GeV/c



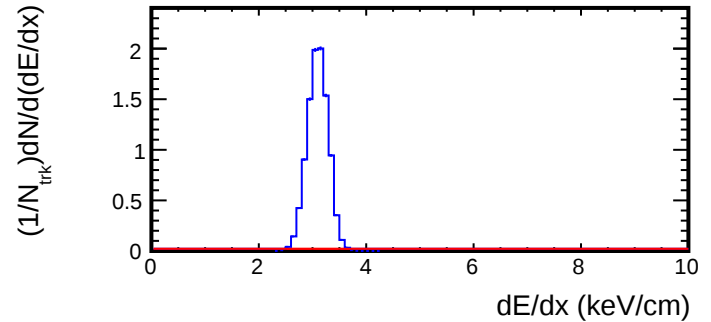
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

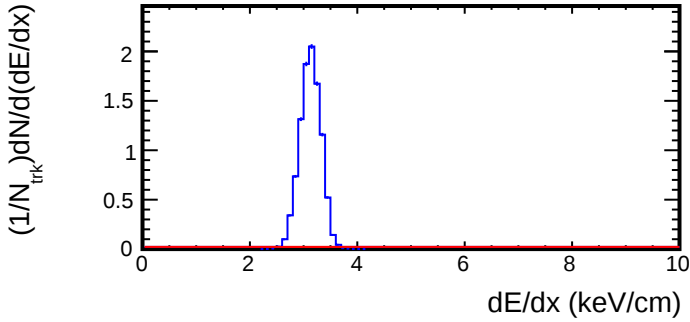


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

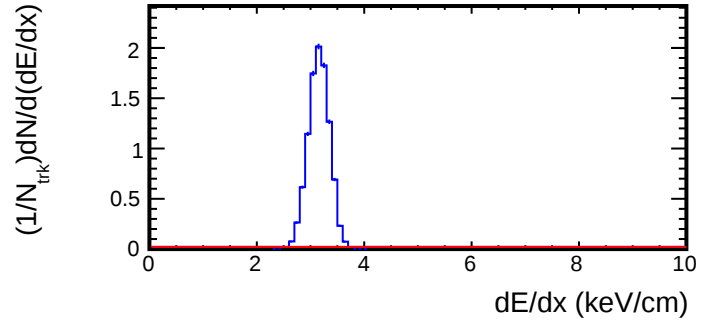
— pi-
(PRIMARY, $|n \sigma_{\pi^-}| < 2$ TPC)

Projection of dE/dx for each p bin

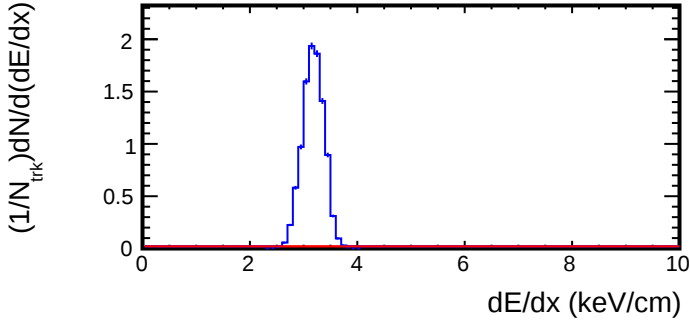
< Mc p < 2.8 GeV/c



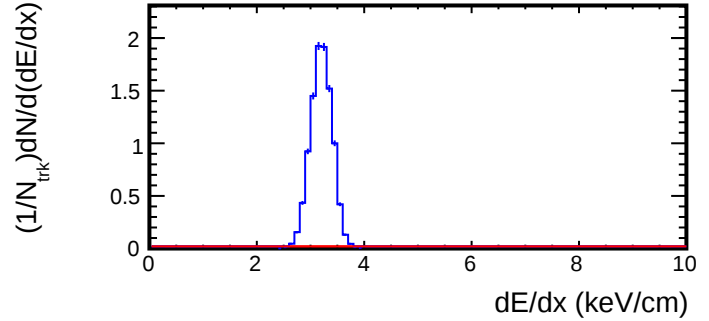
< Mc p < 3.0 GeV/c



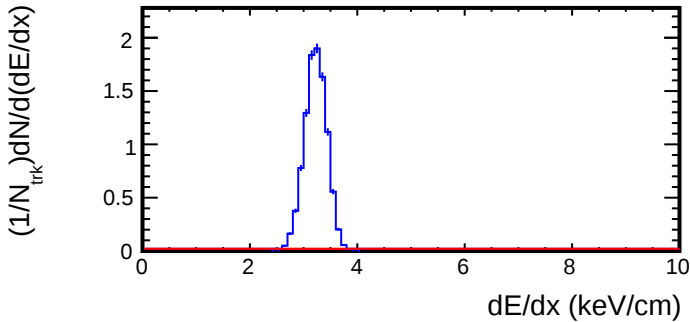
< Mc p < 3.2 GeV/c



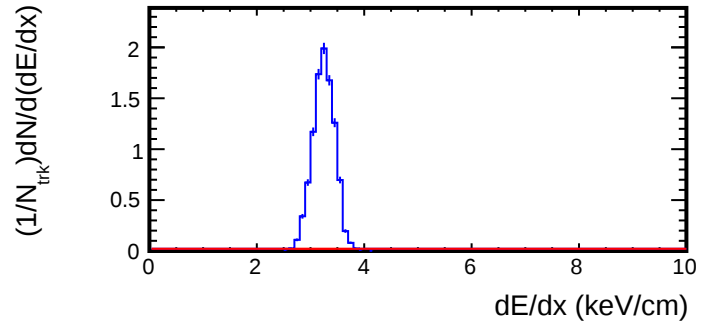
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

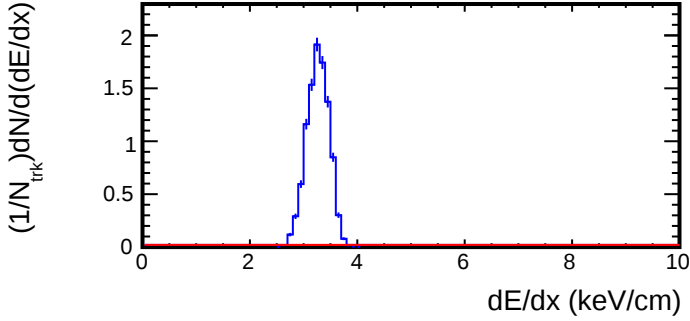


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

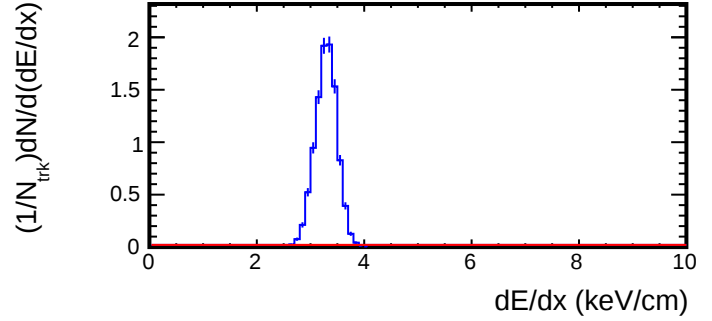
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

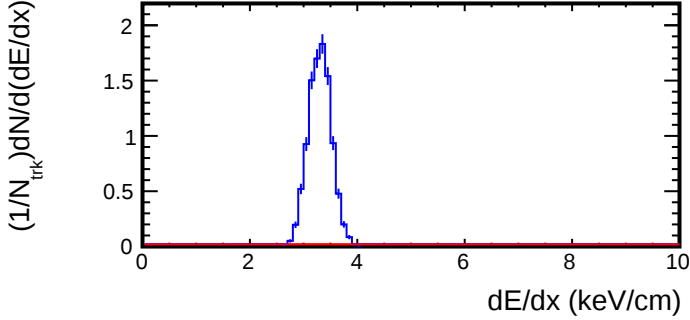
< Mc p < 4.0 GeV/c



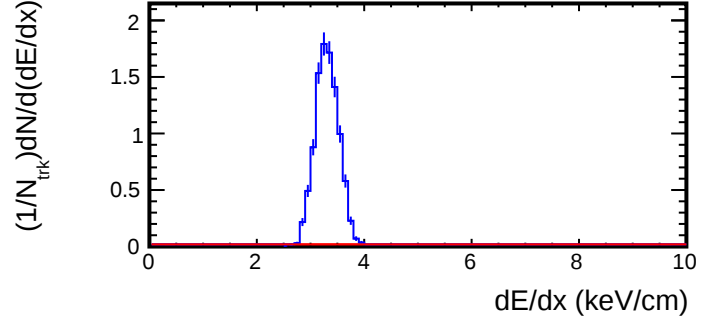
< Mc p < 4.2 GeV/c



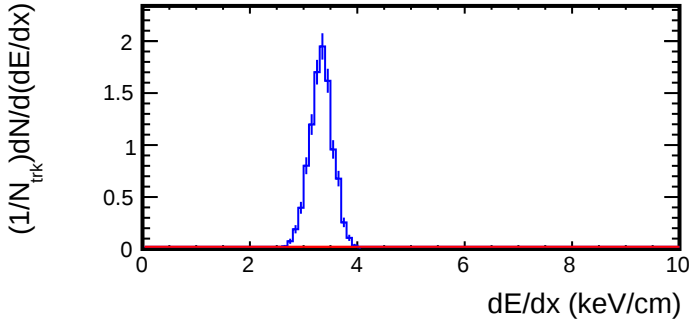
< Mc p < 4.4 GeV/c



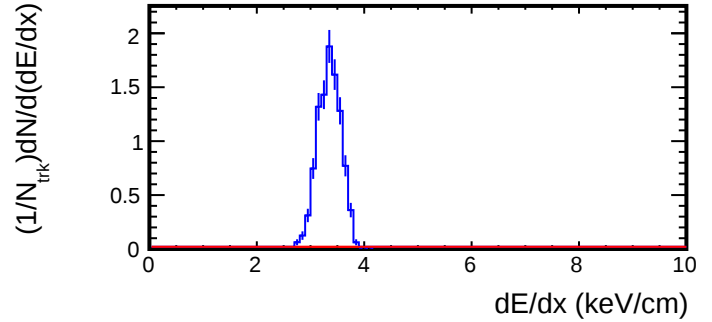
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



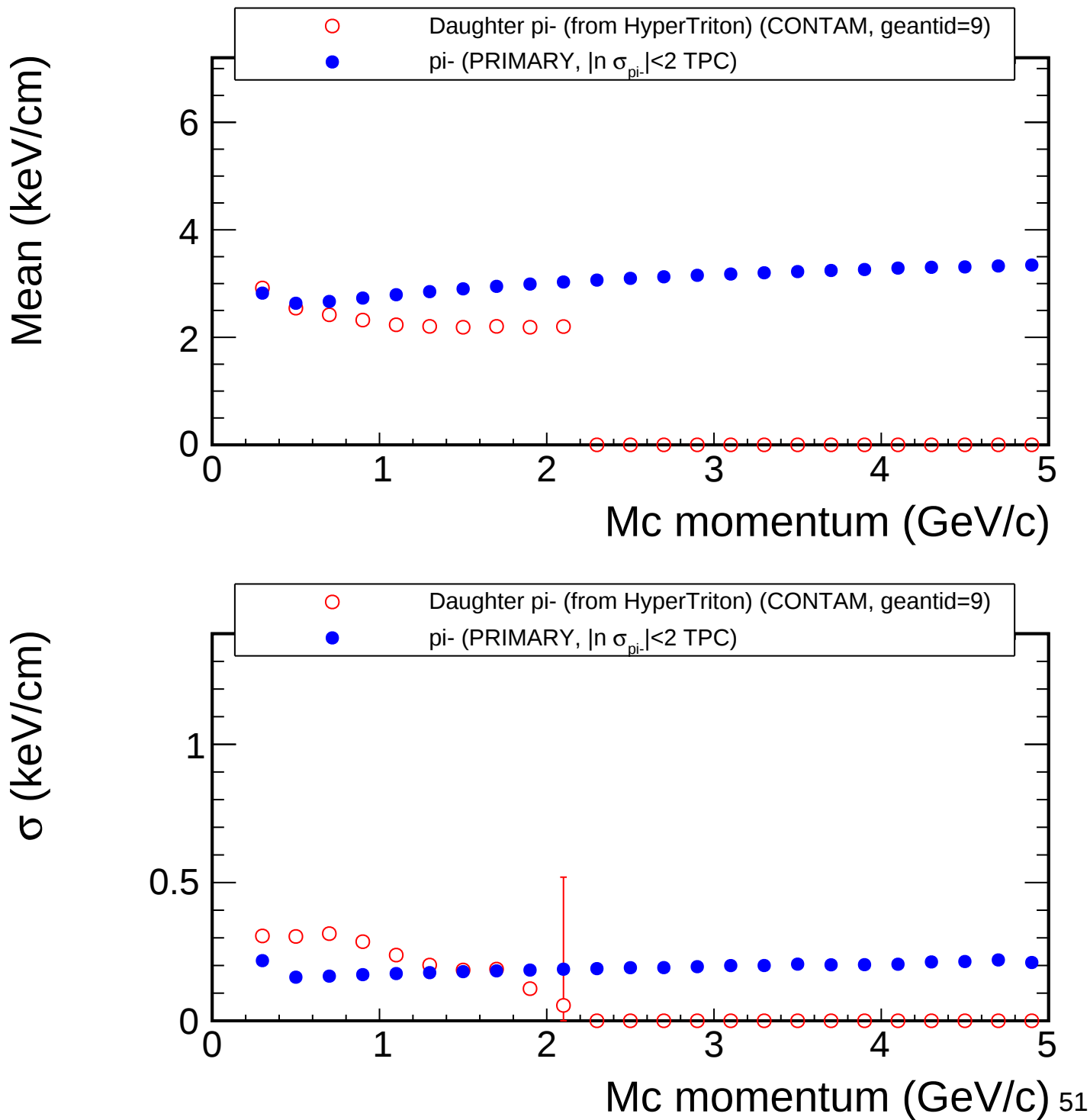
< Mc p < 5.0 GeV/c



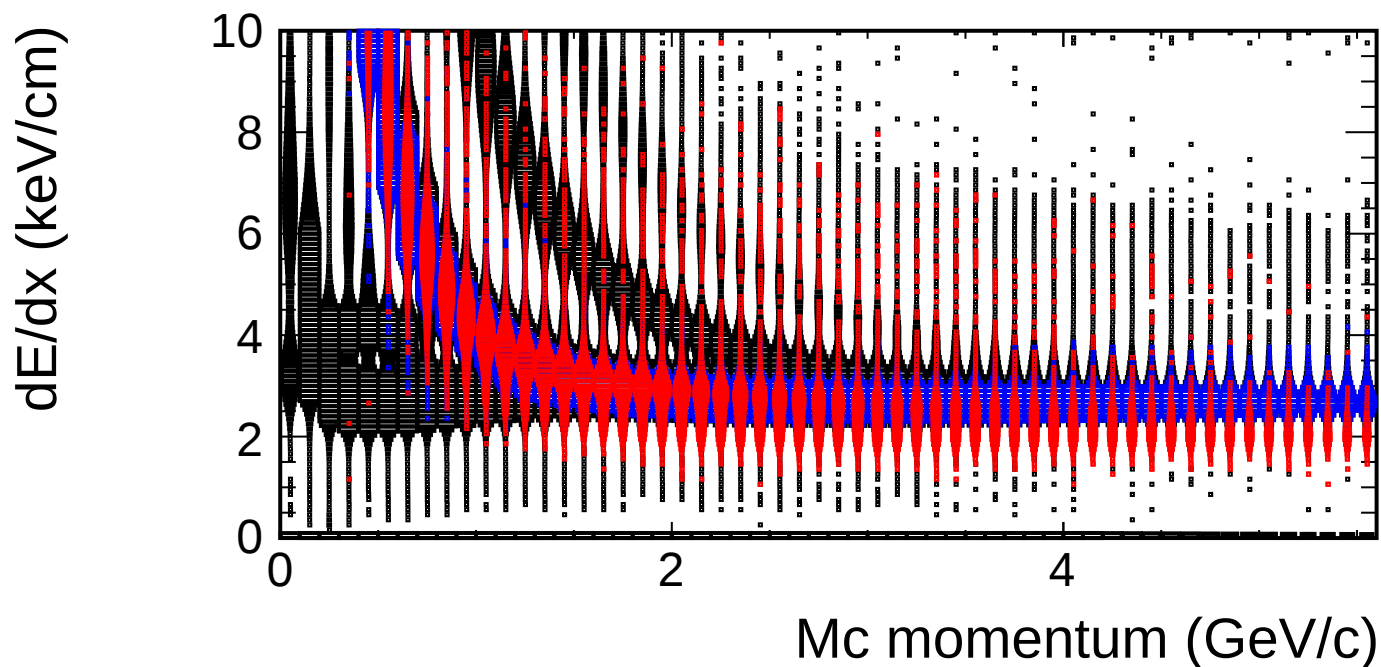
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|n \sigma_{\pi^-}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum



dE/dx vs momentum (Embedding:proton, Real:proton)



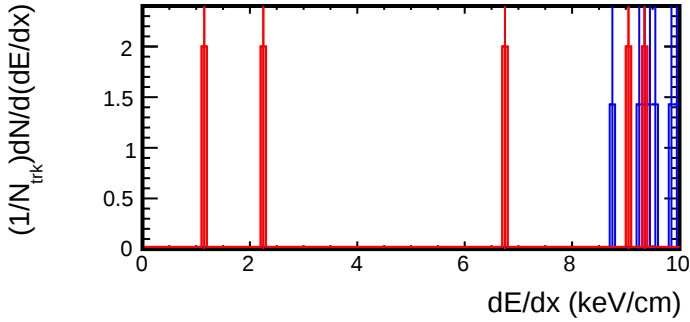
— Daughter proton (from HyperTriton) (CONTAM, geantid=14)

— Real data

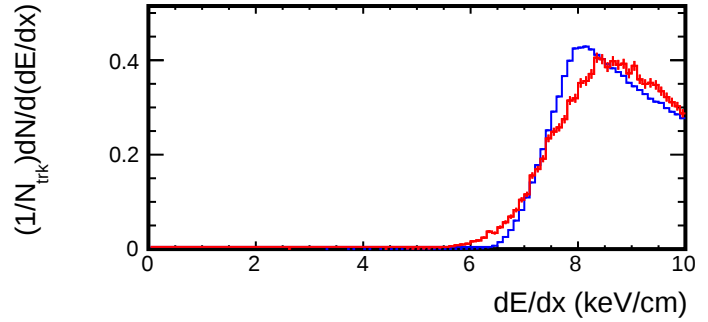
— Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

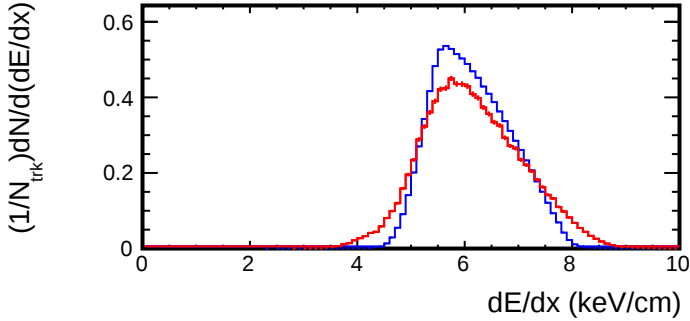
< Mc p < 0.4 GeV/c



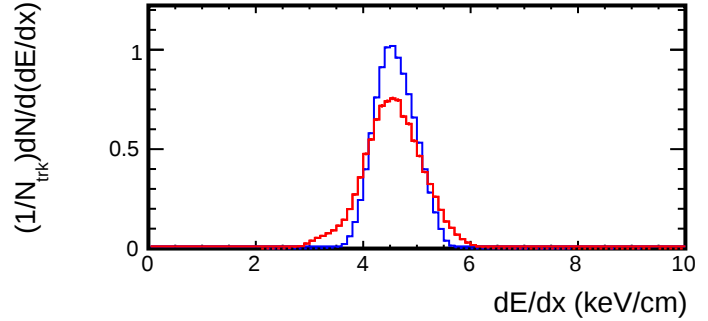
< Mc p < 0.6 GeV/c



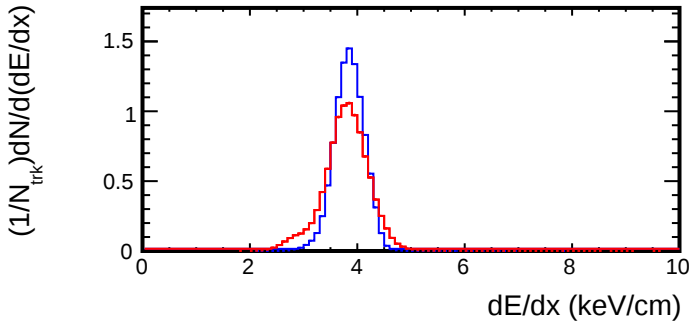
< Mc p < 0.8 GeV/c



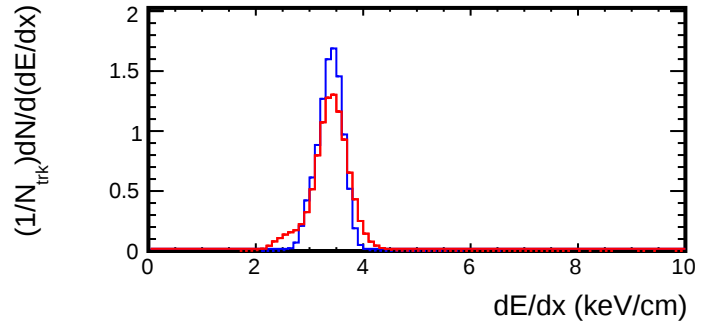
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

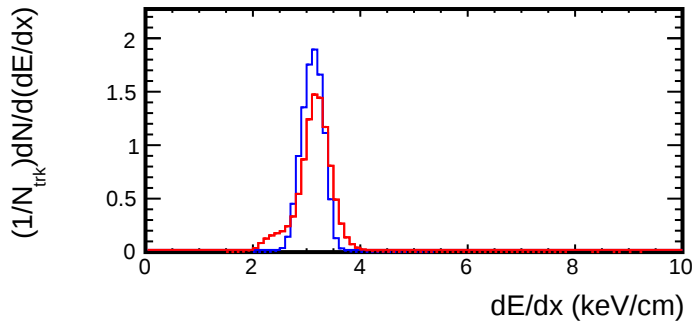


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

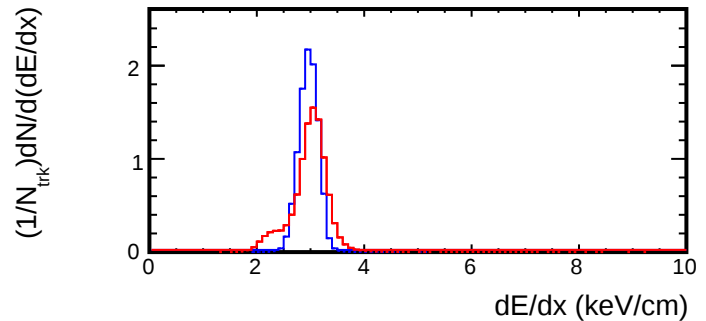
— proton
(PRIMARY, $|n\sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

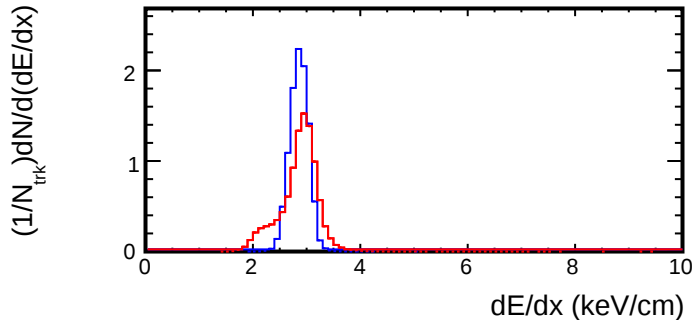
< Mc p < 1.6 GeV/c



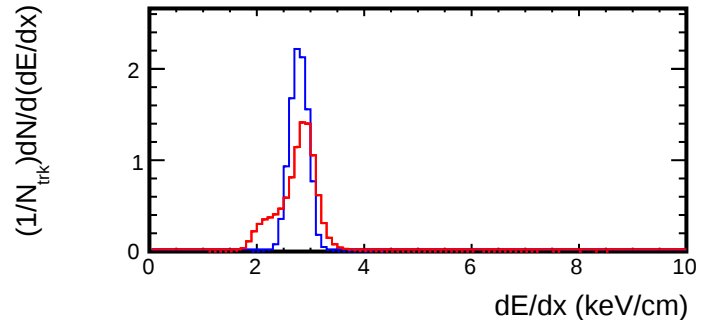
< Mc p < 1.8 GeV/c



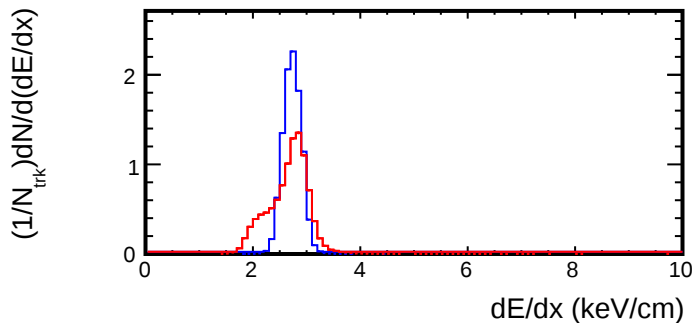
< Mc p < 2.0 GeV/c



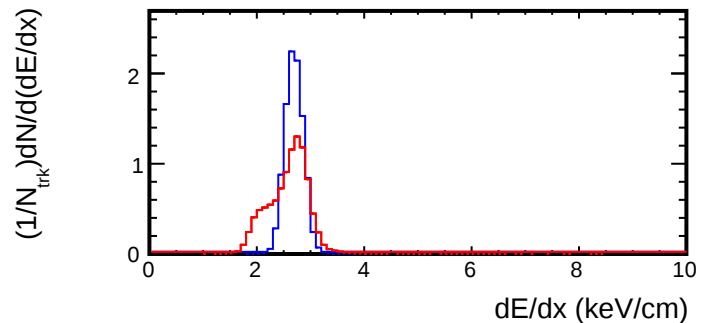
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

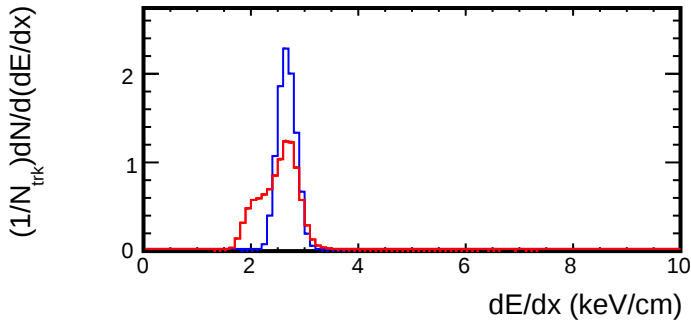


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

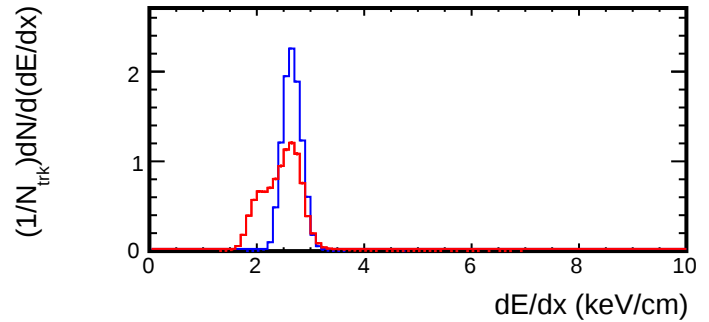
— proton
(PRIMARY, $|n\sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

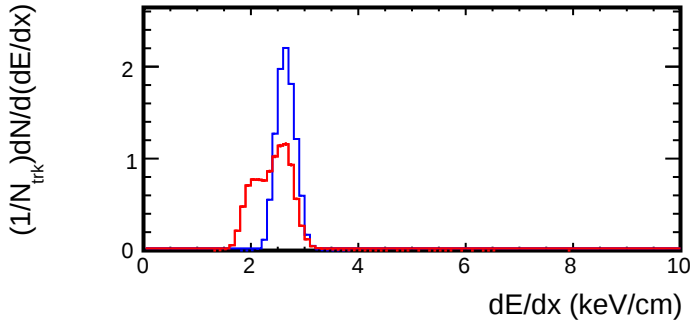
< Mc p < 2.8 GeV/c



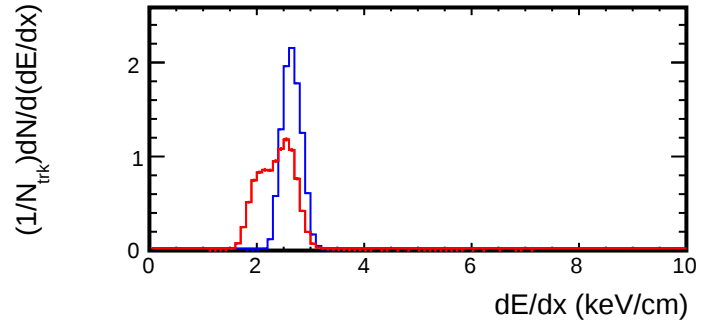
< Mc p < 3.0 GeV/c



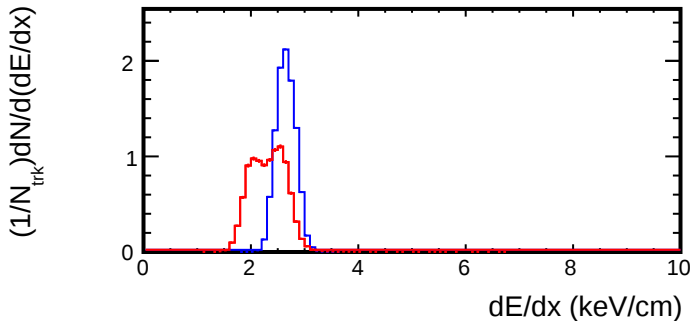
< Mc p < 3.2 GeV/c



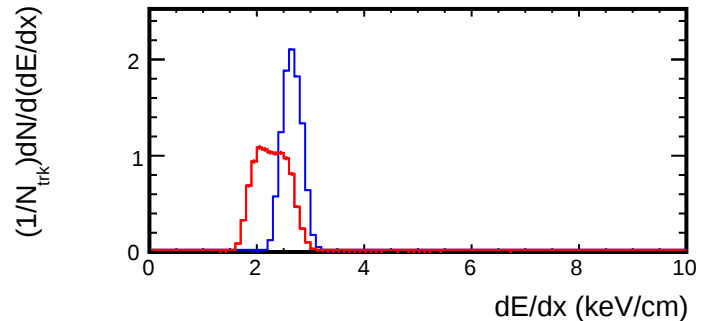
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

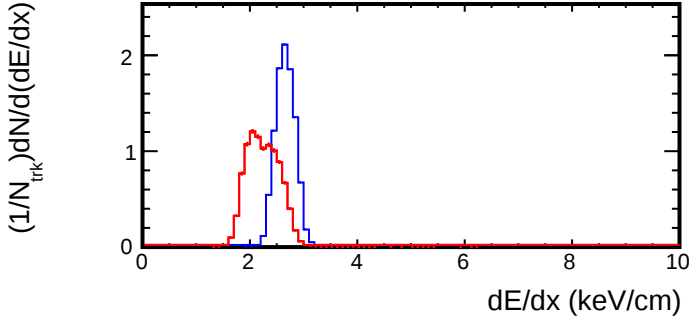


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

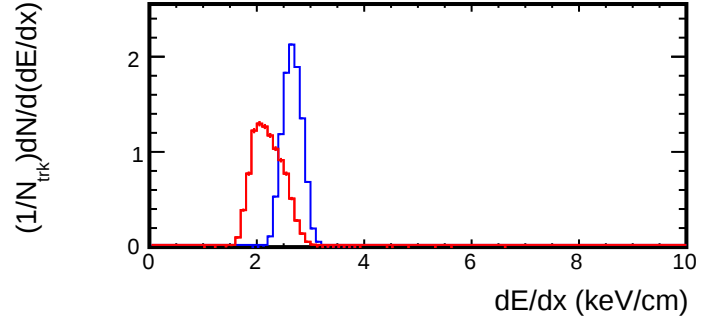
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

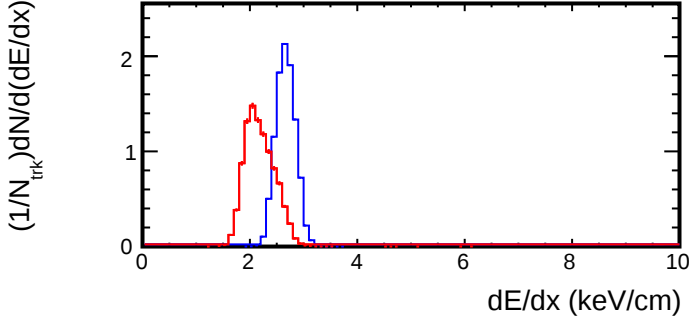
< Mc p < 4.0 GeV/c



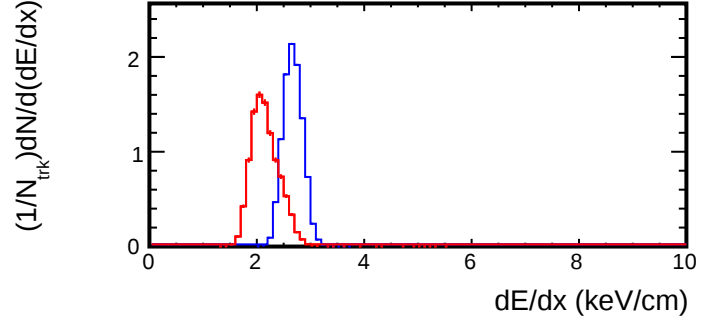
< Mc p < 4.2 GeV/c



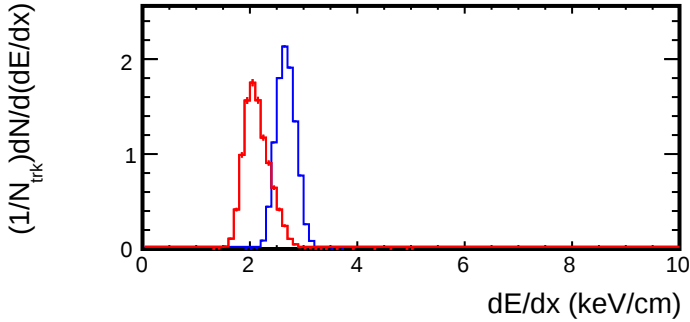
< Mc p < 4.4 GeV/c



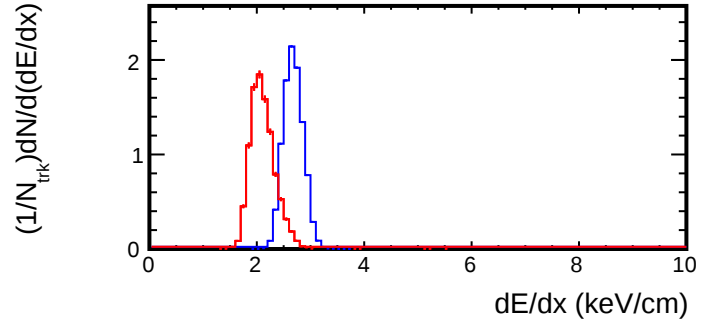
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



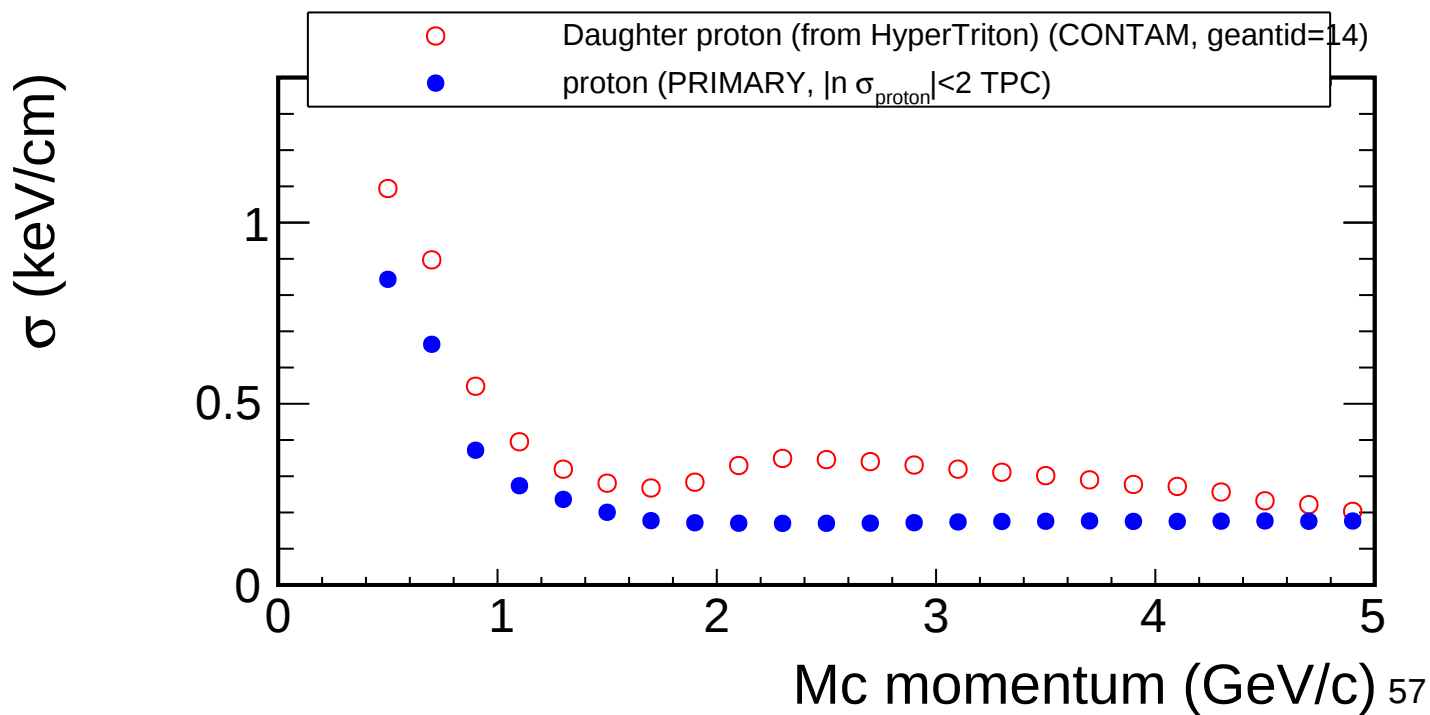
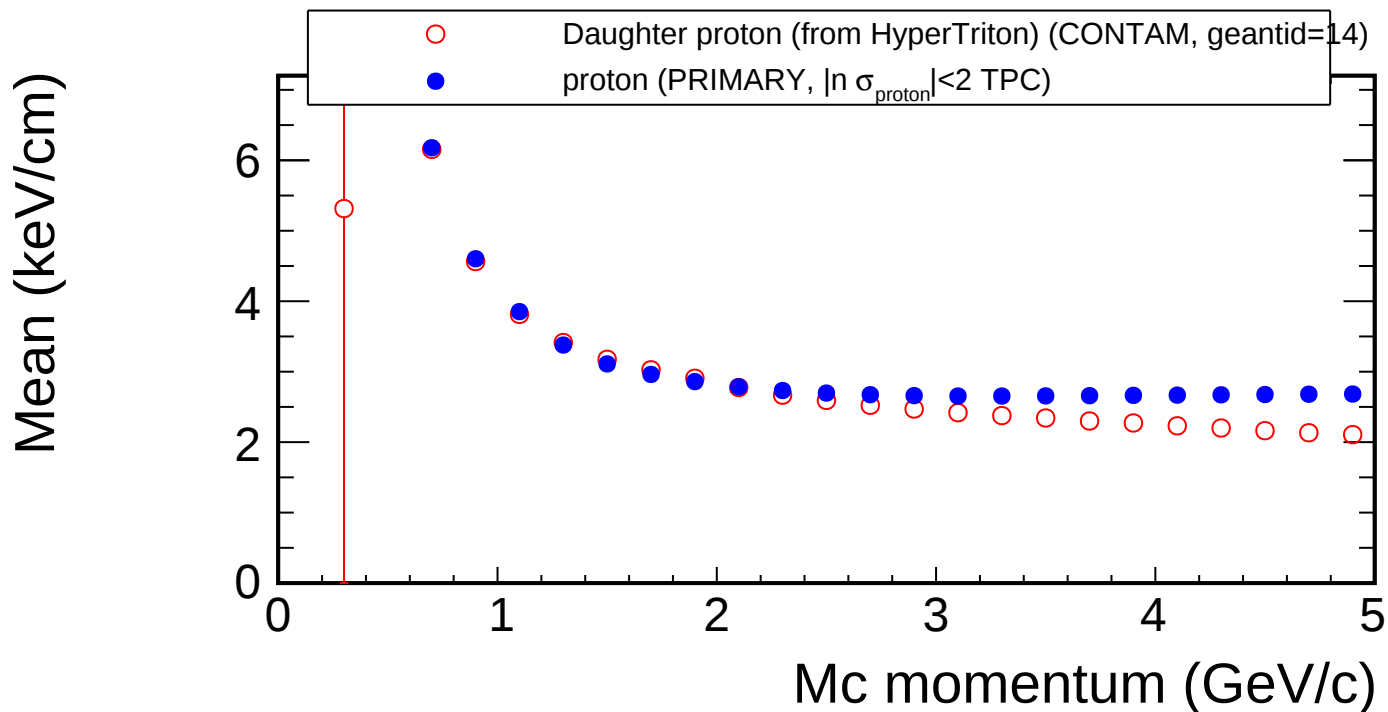
< Mc p < 5.0 GeV/c



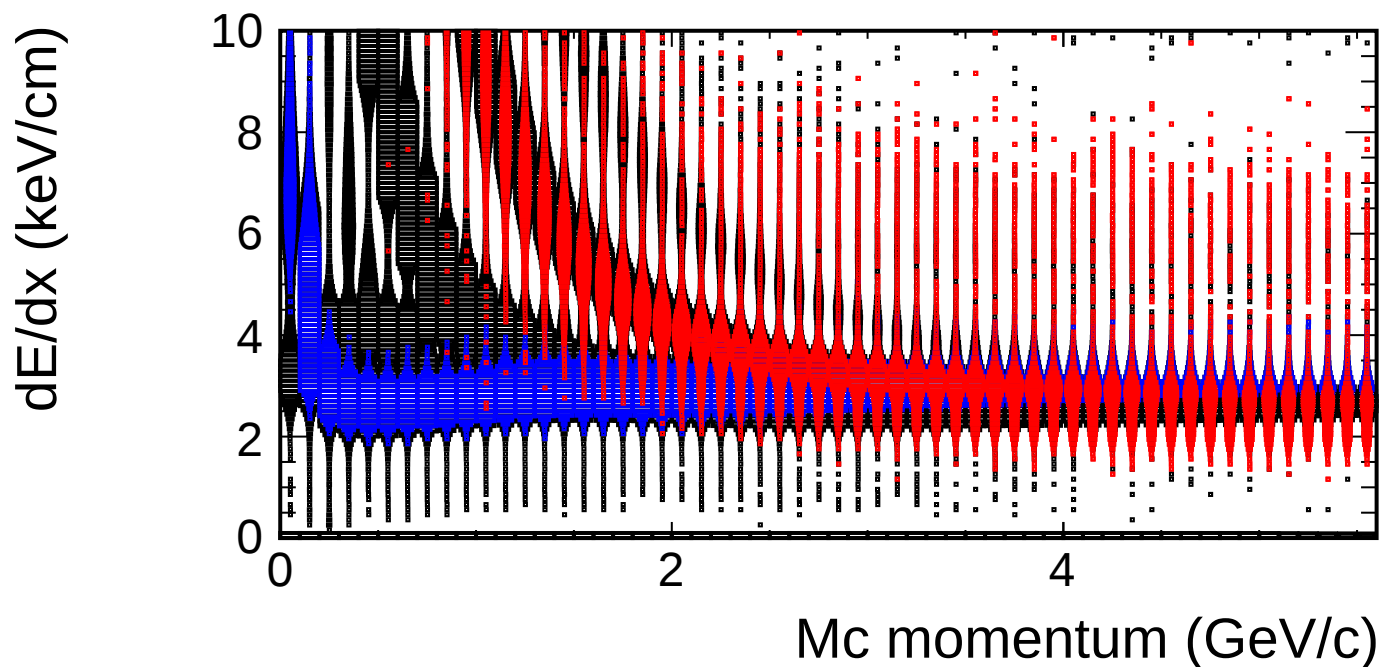
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|n\sigma_{\text{proton}}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum



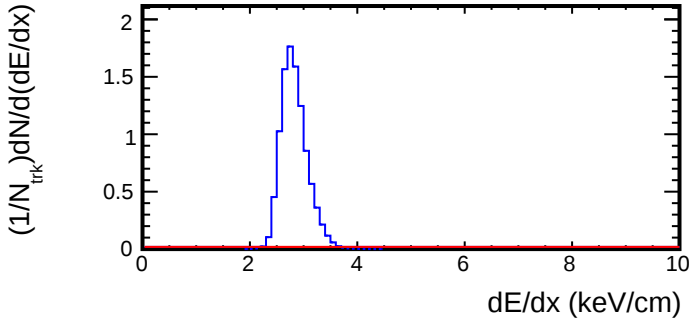
dE/dx vs momentum (Embedding:deuteron, Real:deuteron)



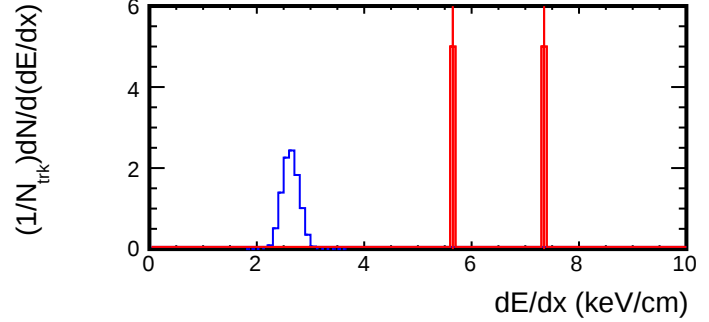
- Daughter deuteron (from HyperTriton) (CONTAM, geantid=45)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

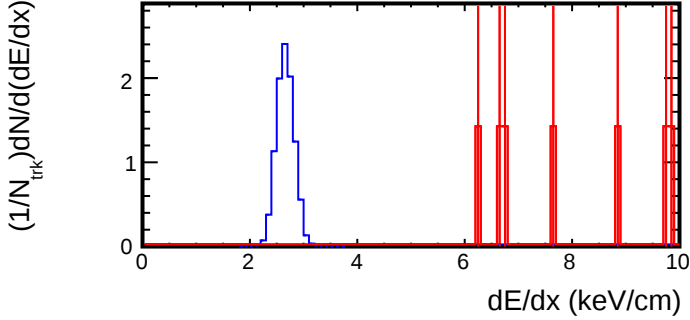
< Mc p < 0.4 GeV/c



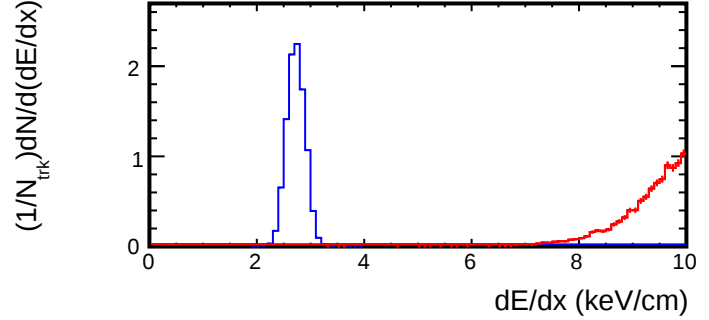
< Mc p < 0.6 GeV/c



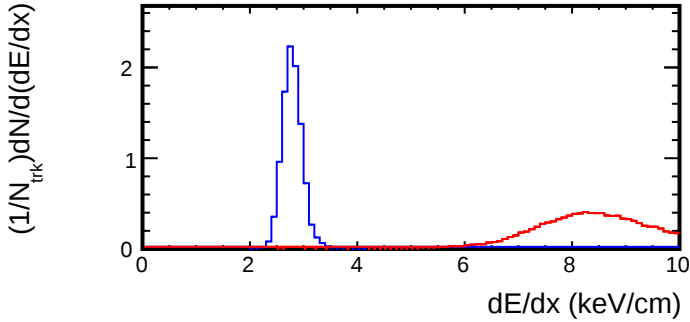
< Mc p < 0.8 GeV/c



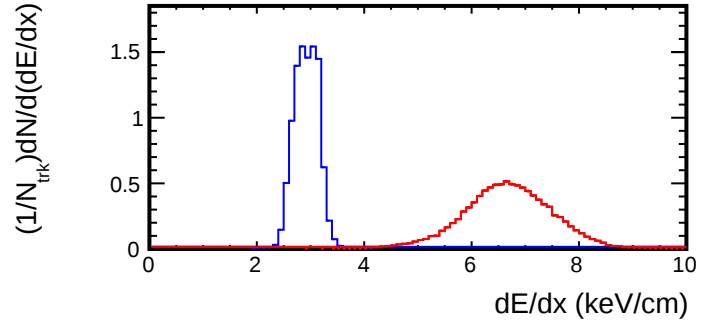
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

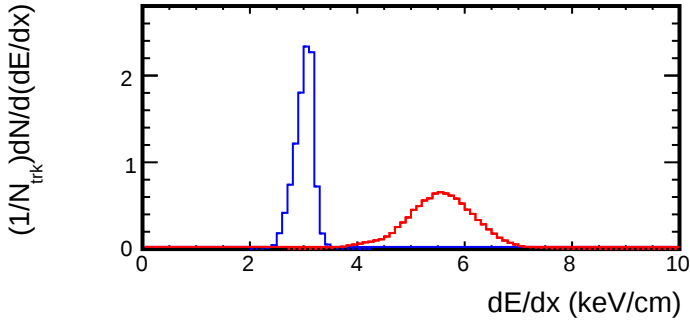


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

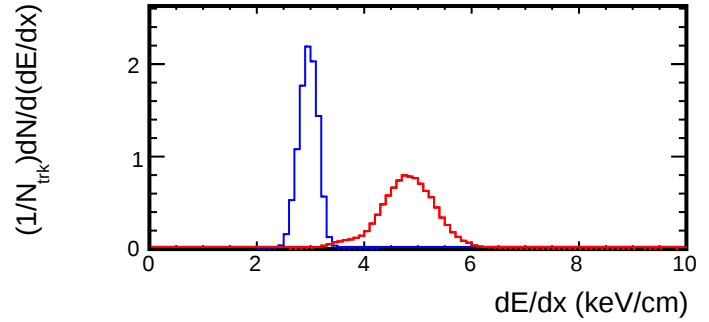
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

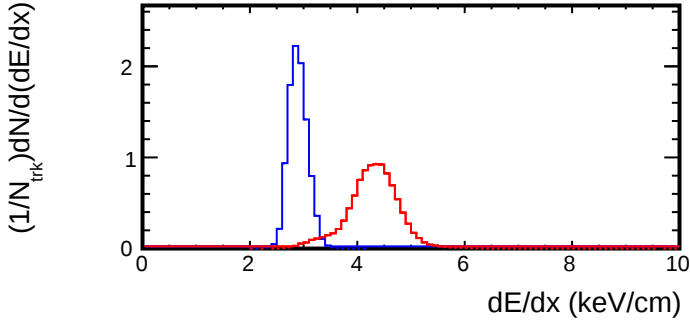
< Mc p < 1.6 GeV/c



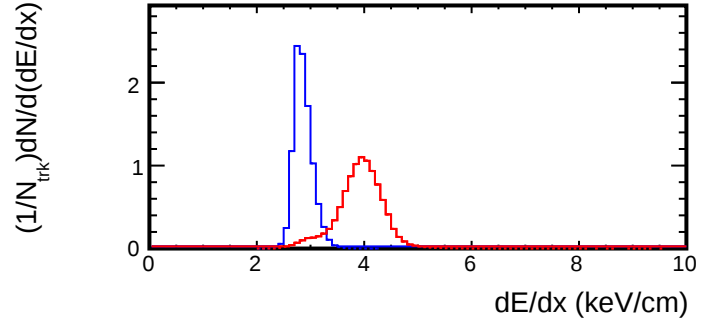
< Mc p < 1.8 GeV/c



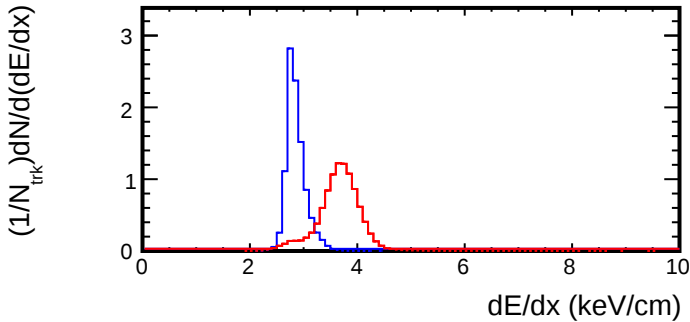
< Mc p < 2.0 GeV/c



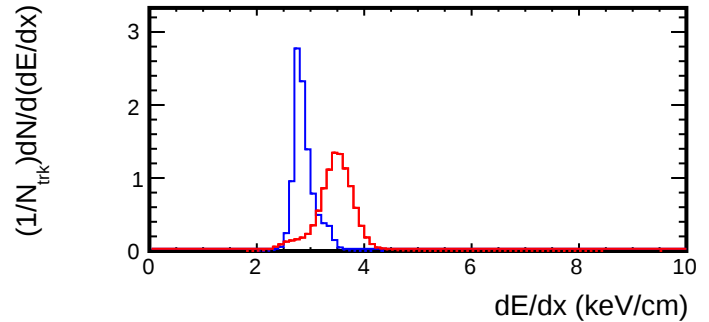
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

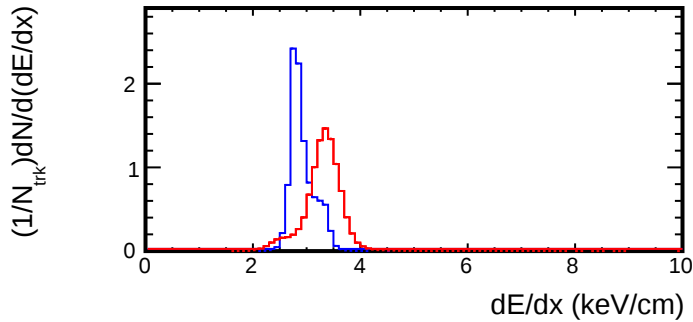


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

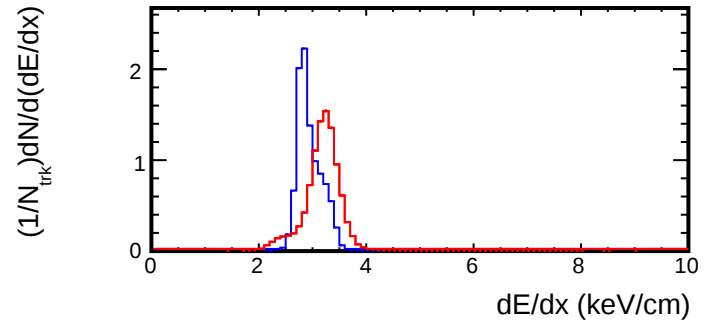
— pi+
(PRIMARY, $|n\sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

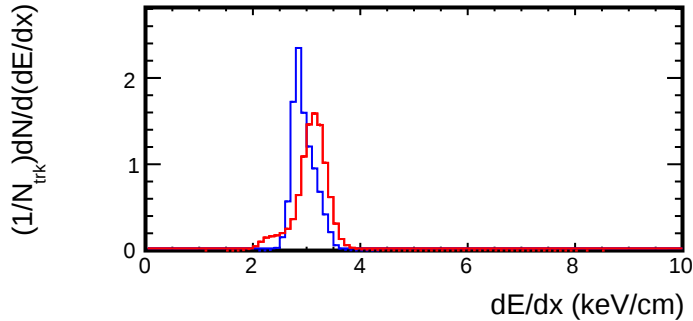
< Mc p < 2.8 GeV/c



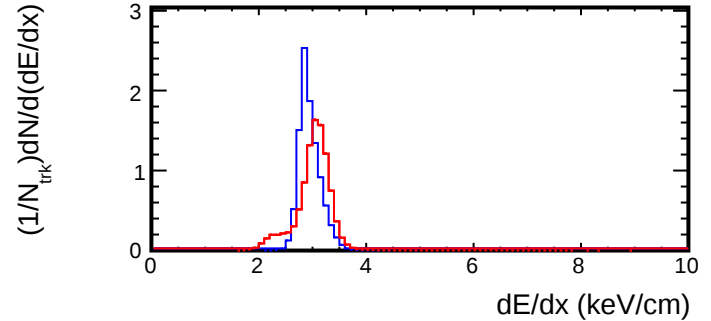
< Mc p < 3.0 GeV/c



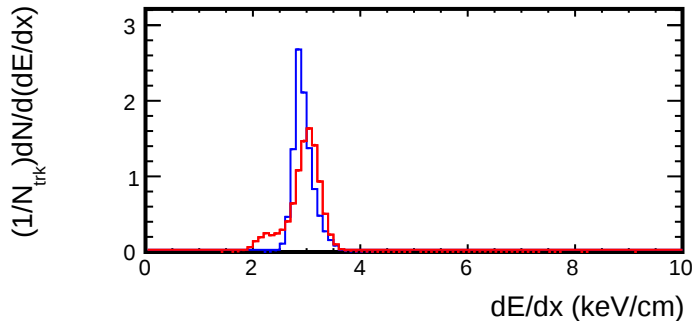
< Mc p < 3.2 GeV/c



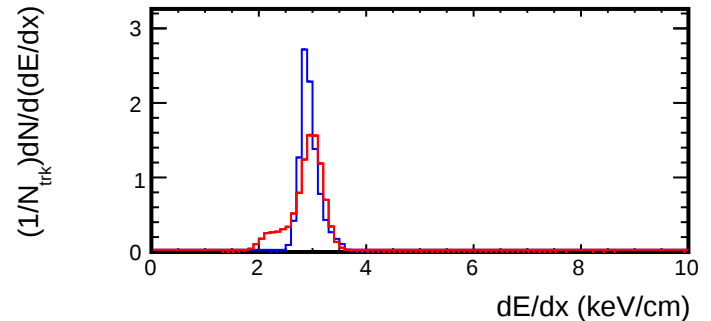
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

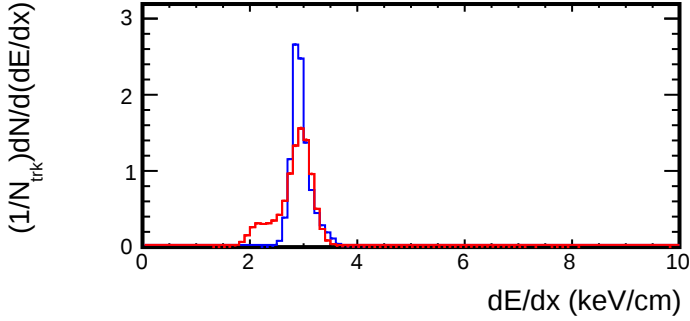


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

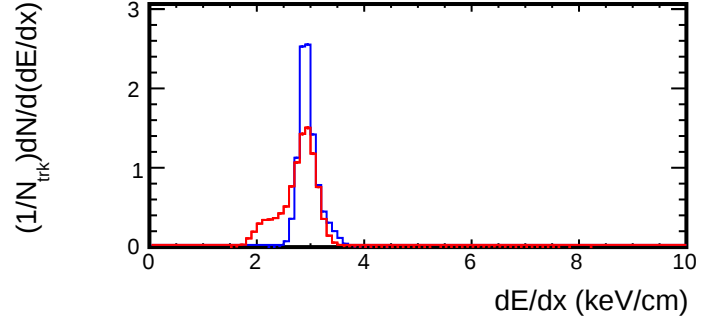
— pi+
(PRIMARY, $|n\sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

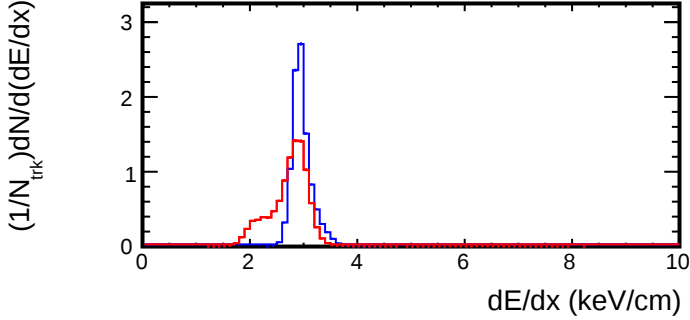
< Mc p < 4.0 GeV/c



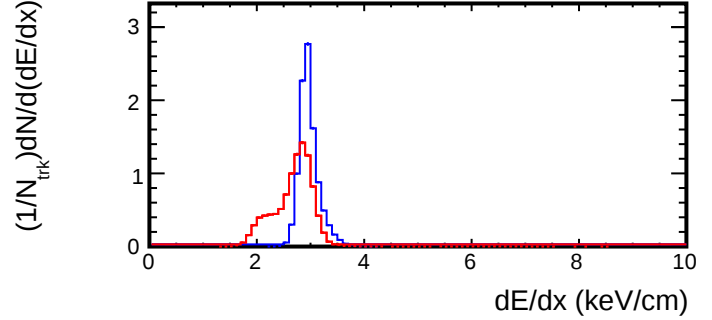
< Mc p < 4.2 GeV/c



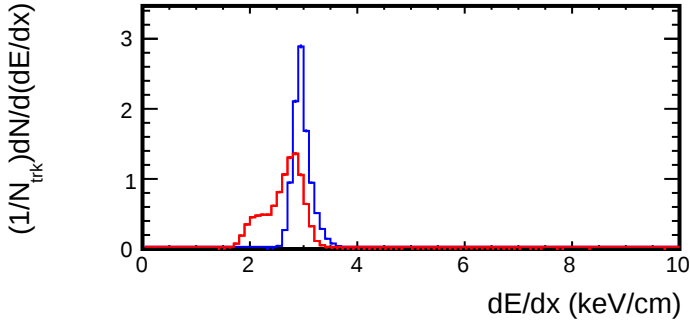
< Mc p < 4.4 GeV/c



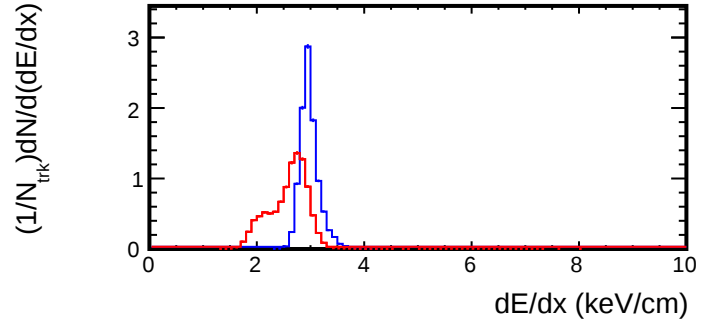
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



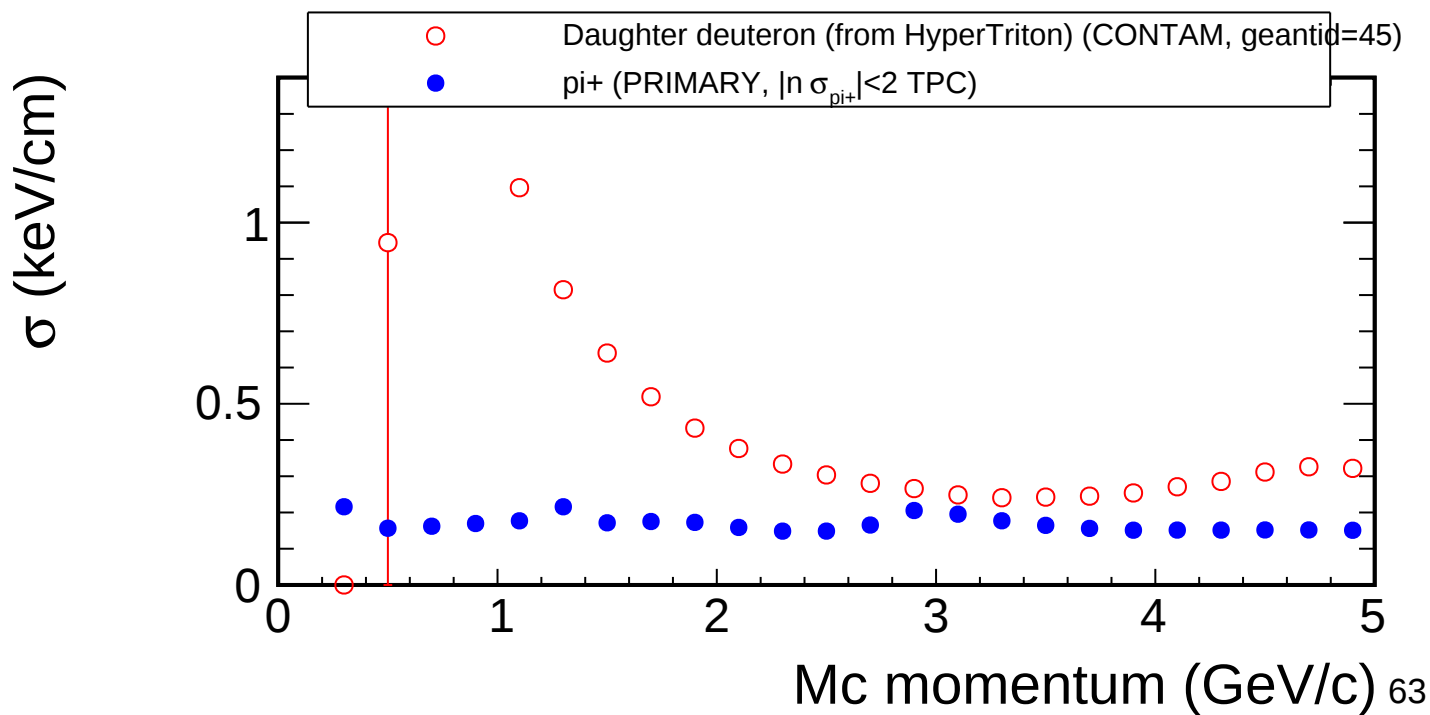
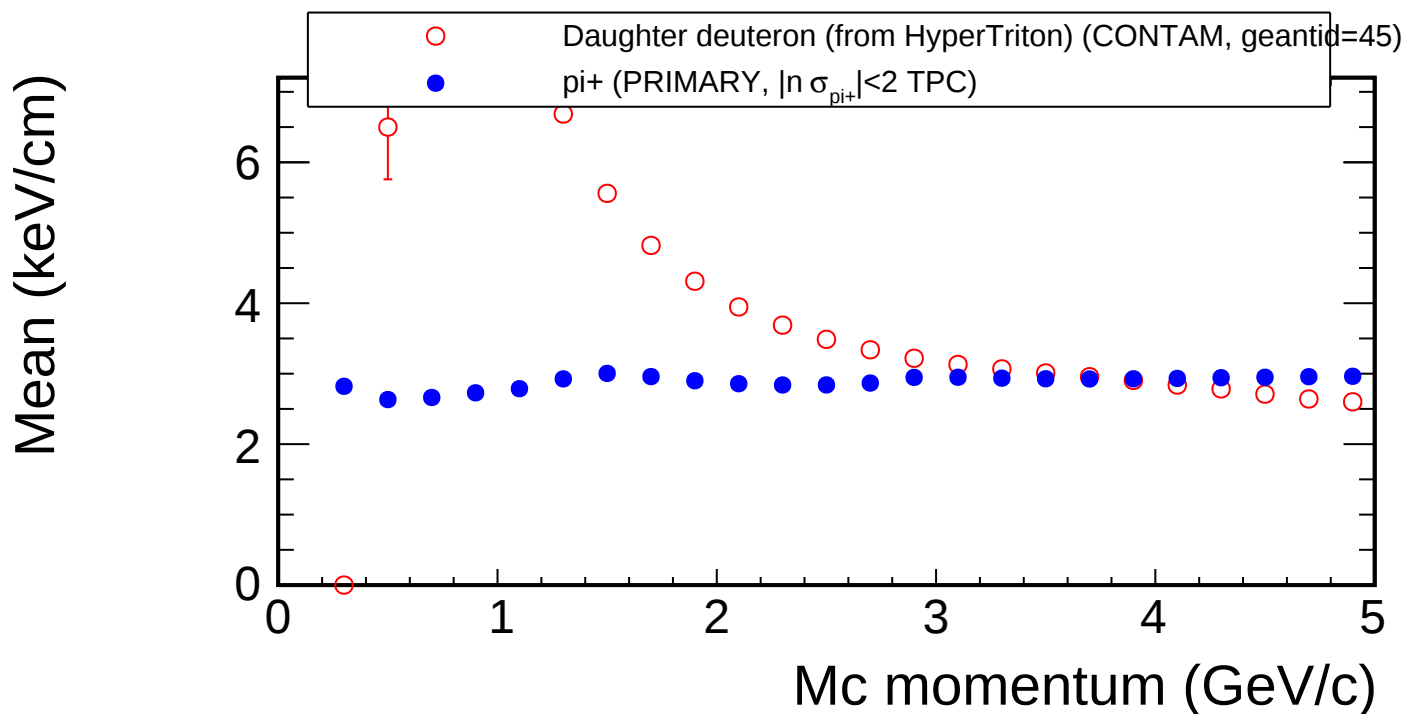
< Mc p < 5.0 GeV/c



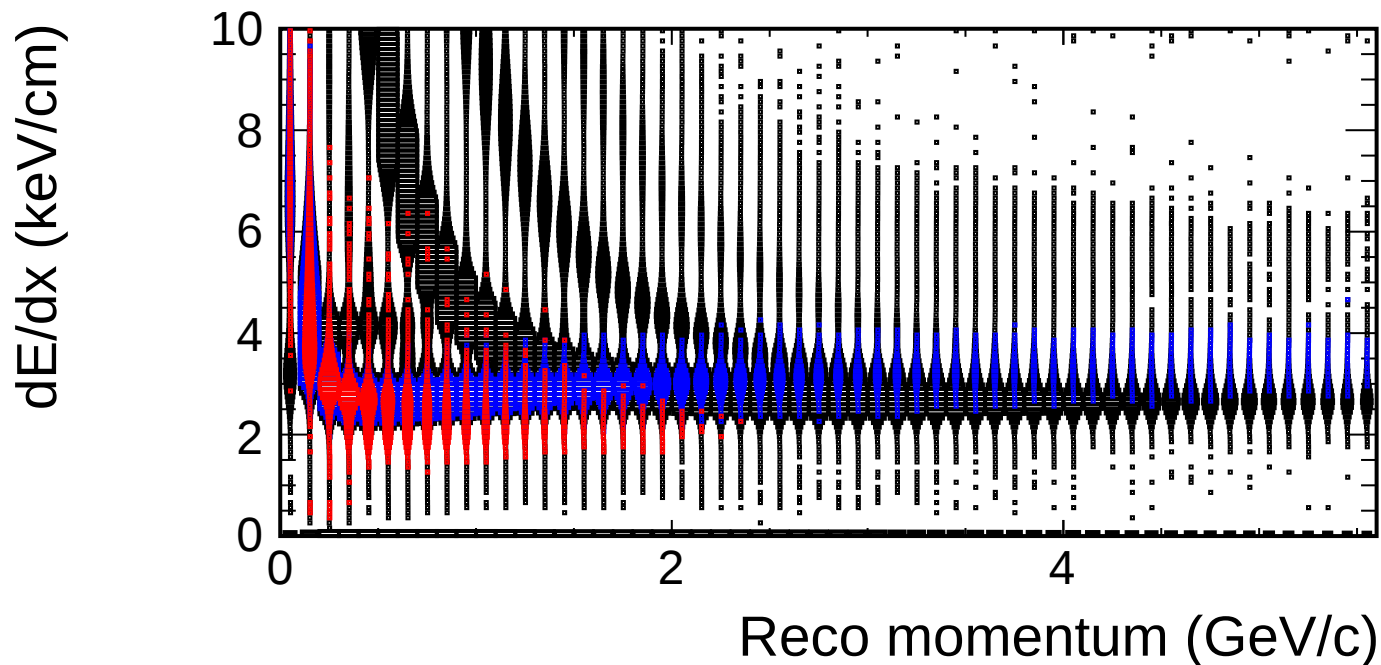
— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum



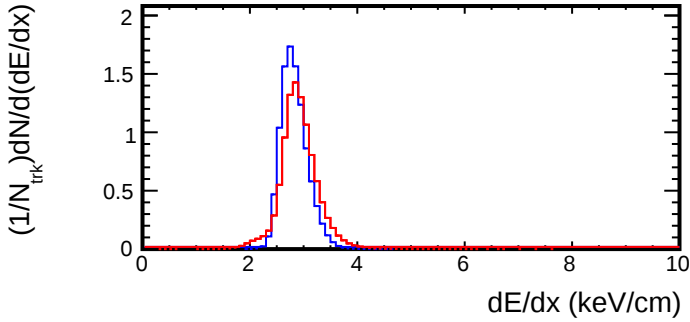
dE/dx vs momentum (Embedding:pi-, Real:pi-)



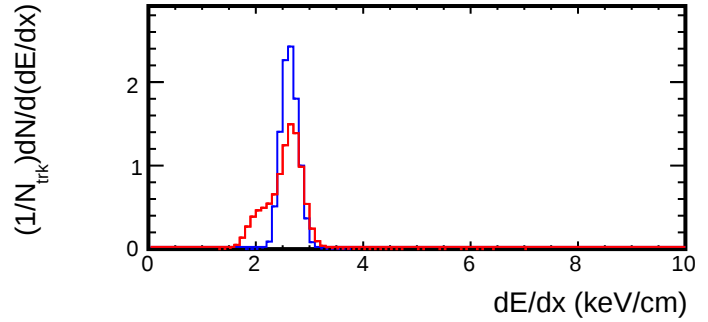
- Daughter π^- (from HyperTriton) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

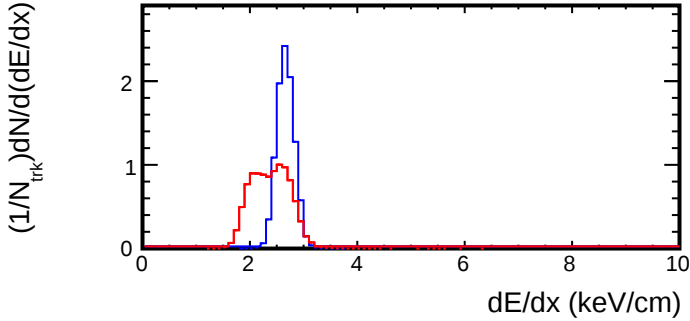
Reco p < 0.4 GeV/c



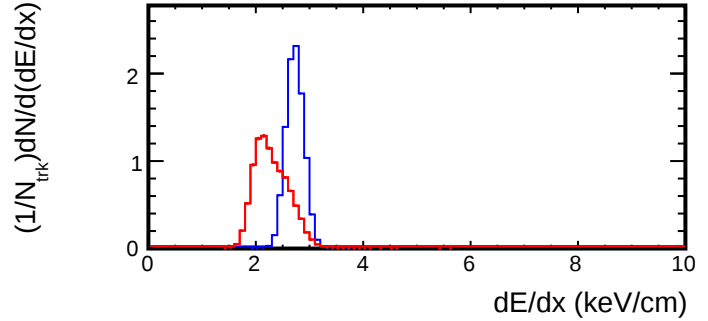
Reco p < 0.6 GeV/c



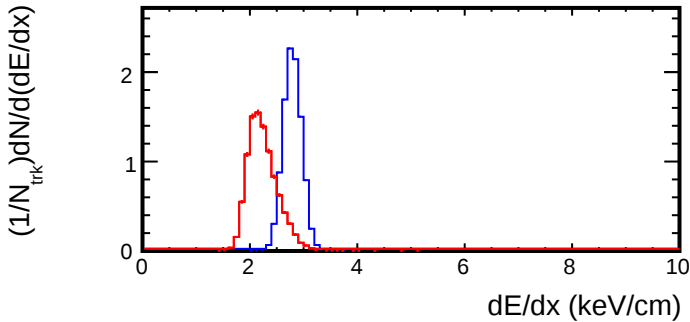
Reco p < 0.8 GeV/c



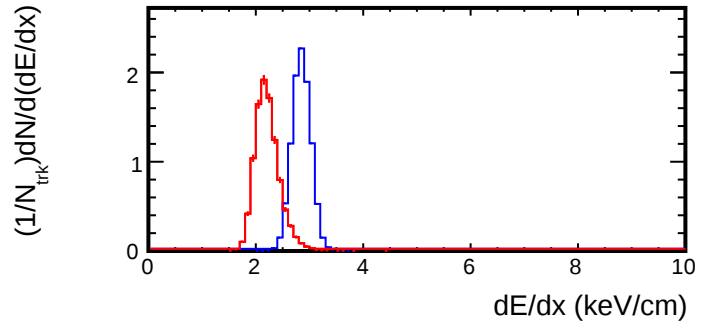
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



Reco p < 1.4 GeV/c

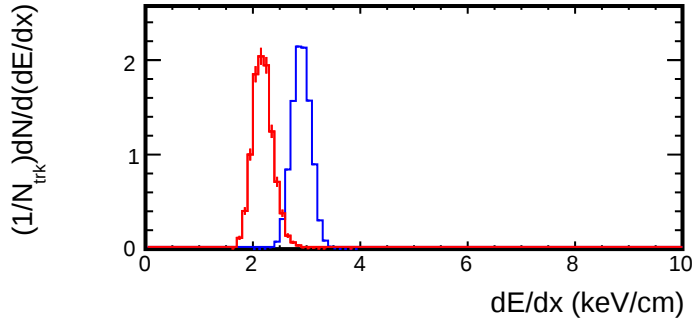


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

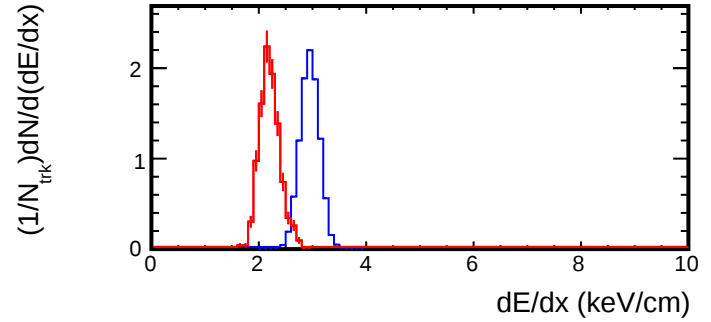
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

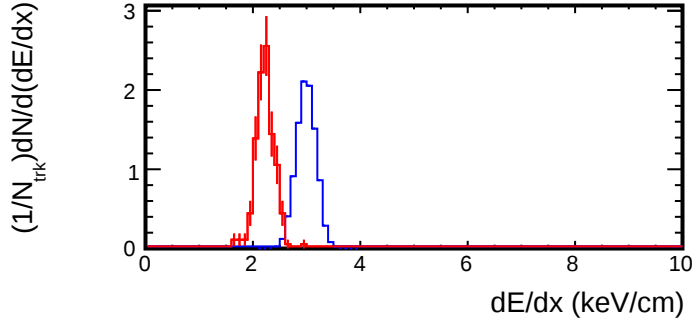
Reco p < 1.6 GeV/c



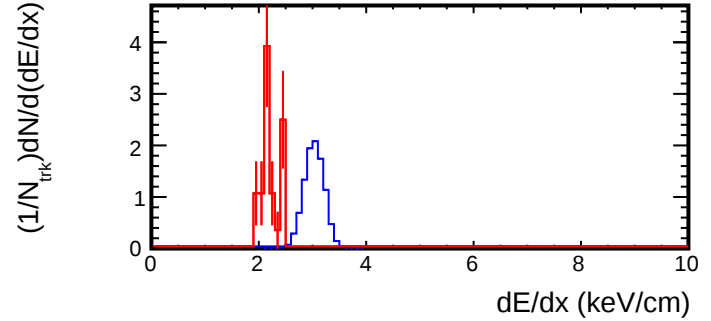
Reco p < 1.8 GeV/c



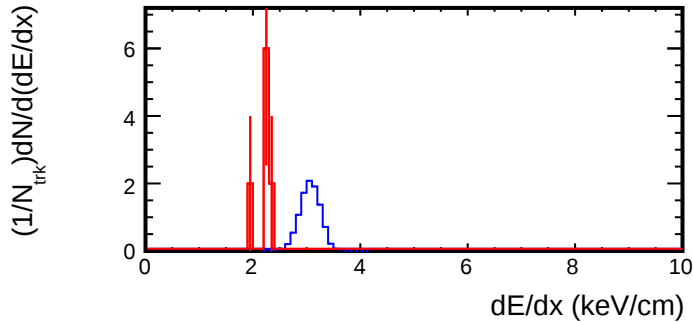
Reco p < 2.0 GeV/c



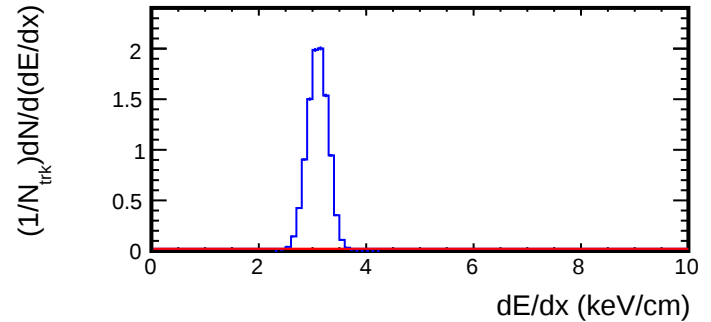
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



Reco p < 2.6 GeV/c

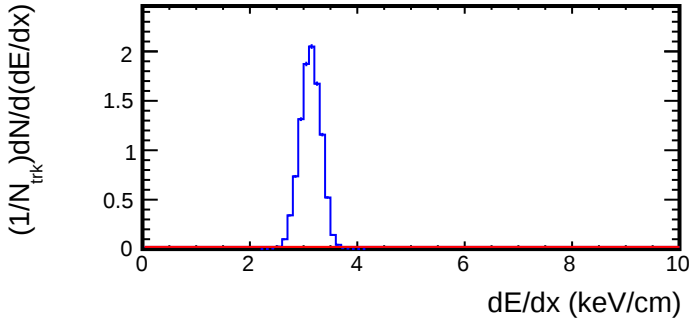


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

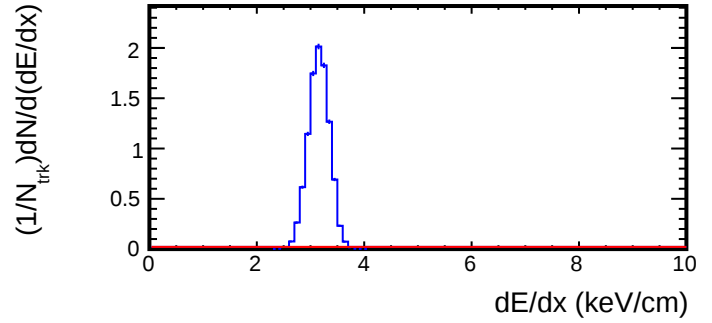
— pi-
(PRIMARY, $|n \sigma_{\pi^-}| < 2$ TPC)

Projection of dE/dx for each p bin

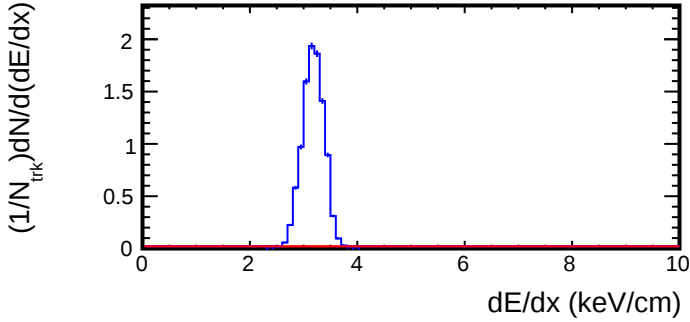
Reco p < 2.8 GeV/c



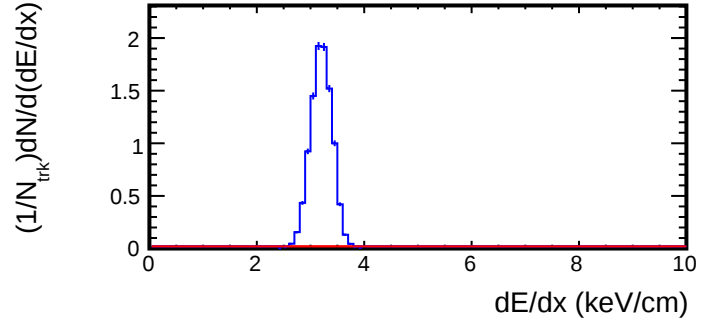
Reco p < 3.0 GeV/c



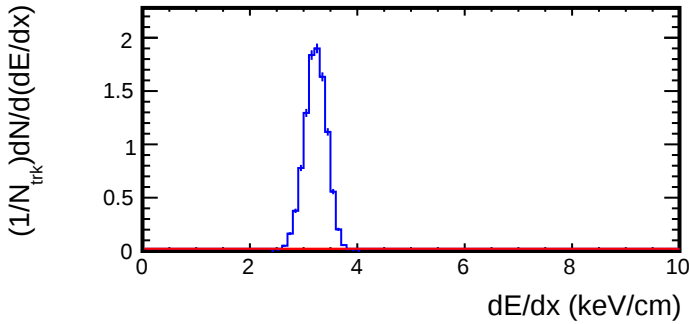
Reco p < 3.2 GeV/c



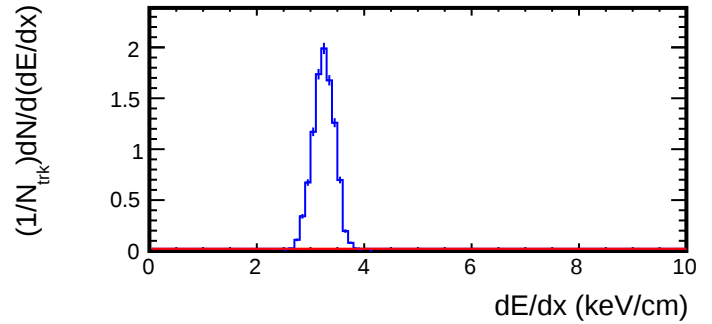
Reco p < 3.4 GeV/c



Reco p < 3.6 GeV/c



Reco p < 3.8 GeV/c

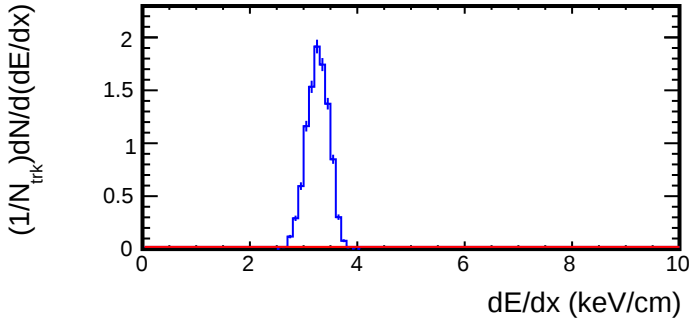


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

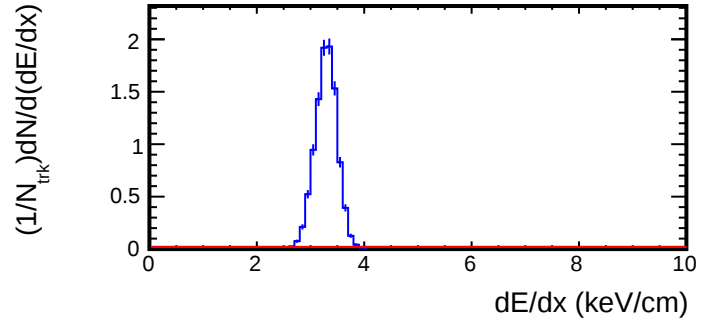
— pi-
(PRIMARY, $|n \sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

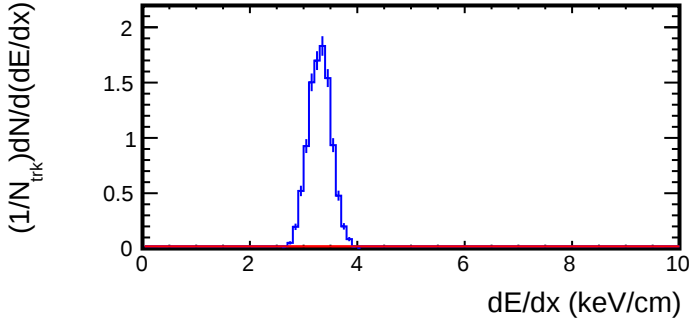
Reco p < 4.0 GeV/c



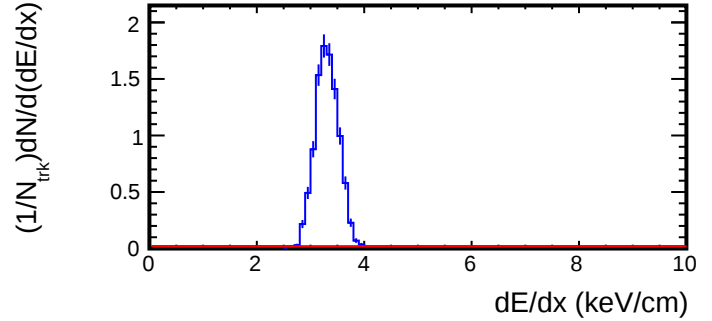
Reco p < 4.2 GeV/c



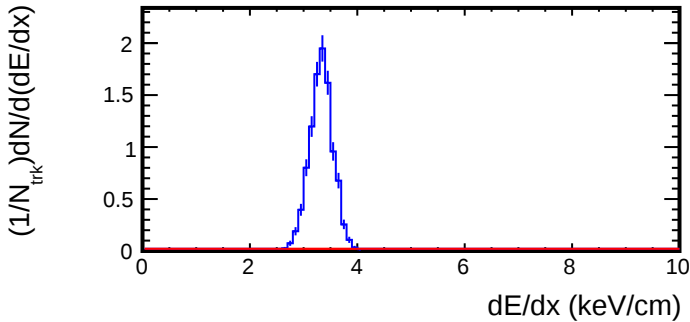
Reco p < 4.4 GeV/c



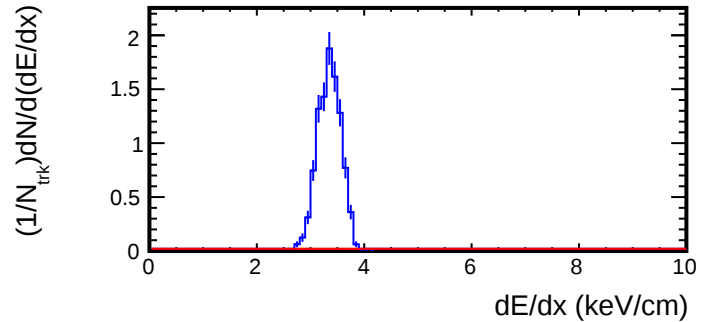
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c



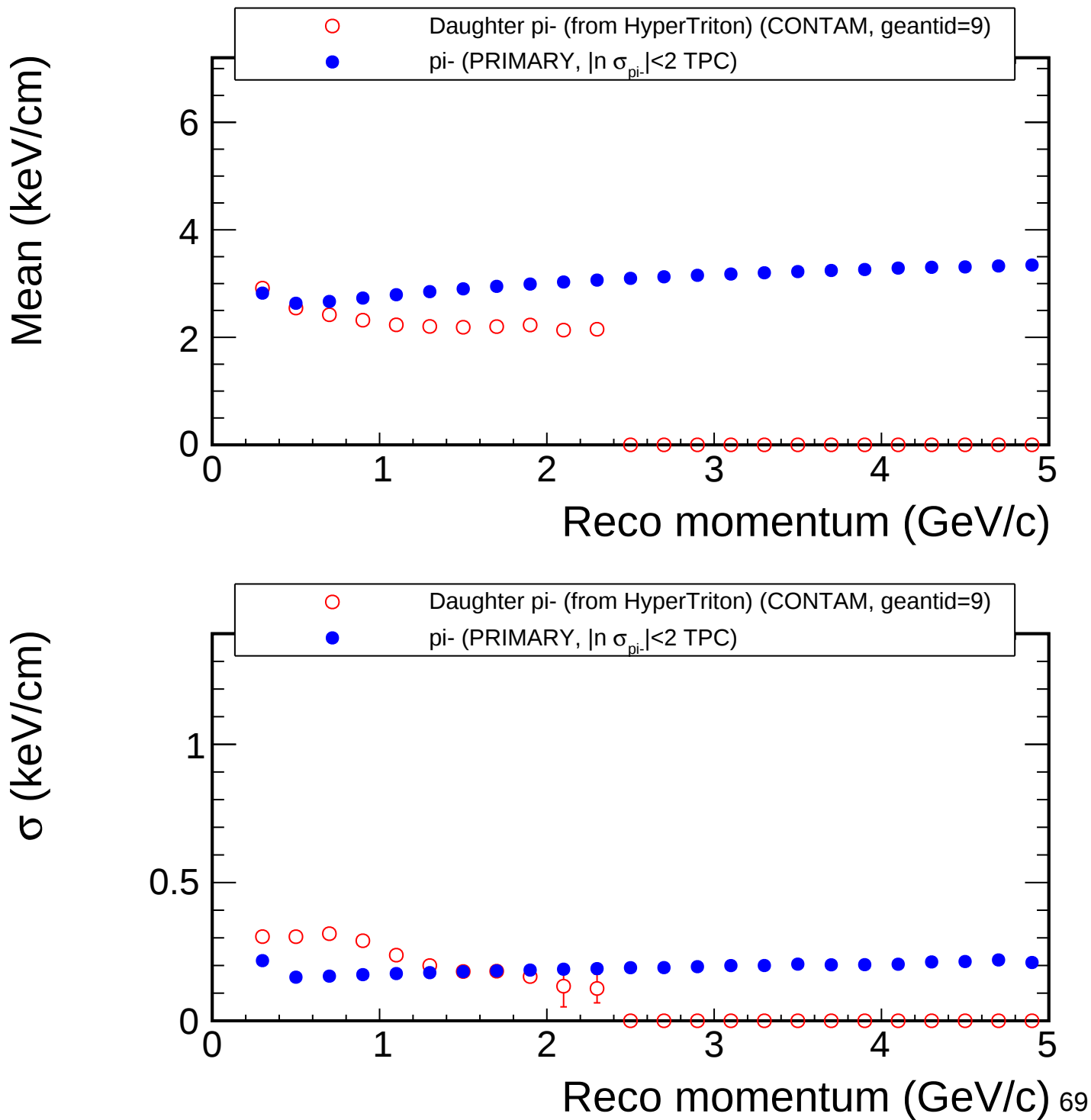
Reco p < 5.0 GeV/c



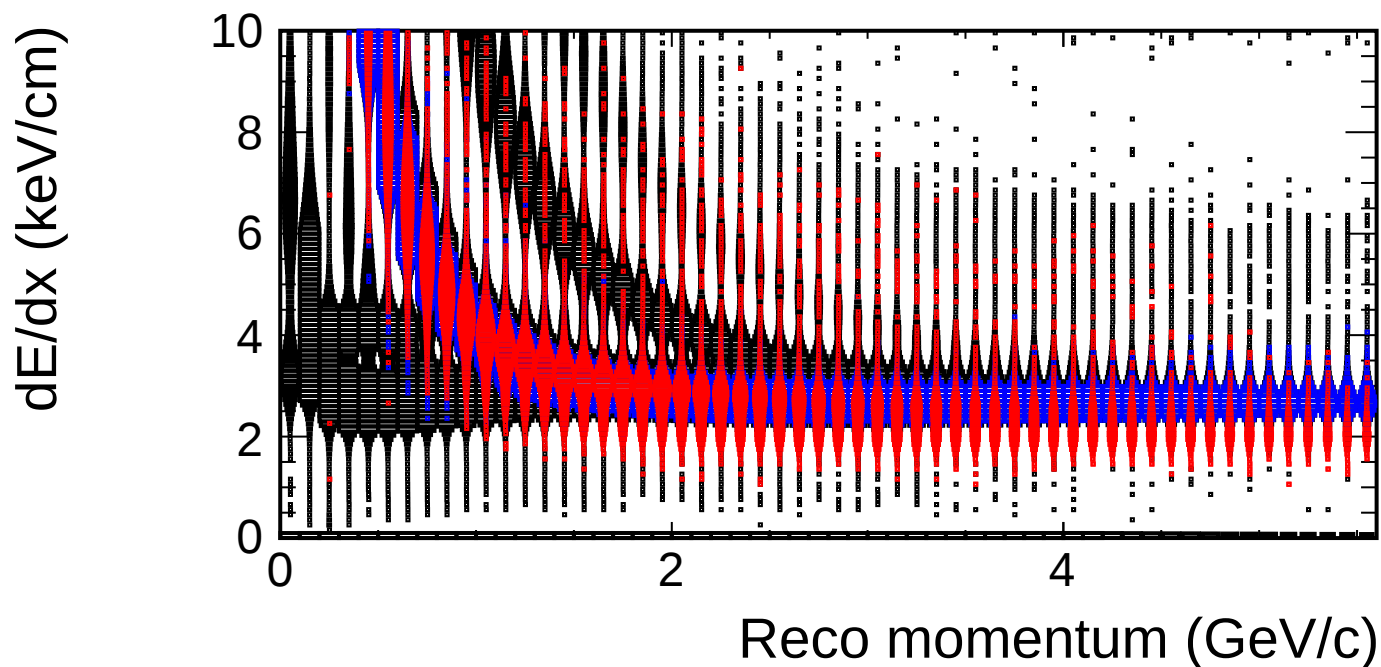
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|n \sigma_{\pi^-}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum



dE/dx vs momentum (Embedding:proton, Real:proton)



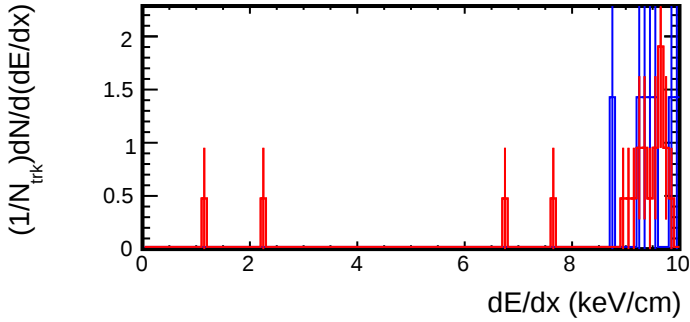
— Daughter proton (from HyperTriton) (CONTAM, geantid=14)

— Real data

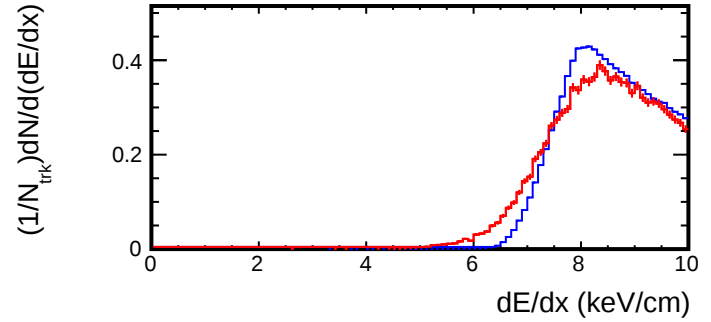
— Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

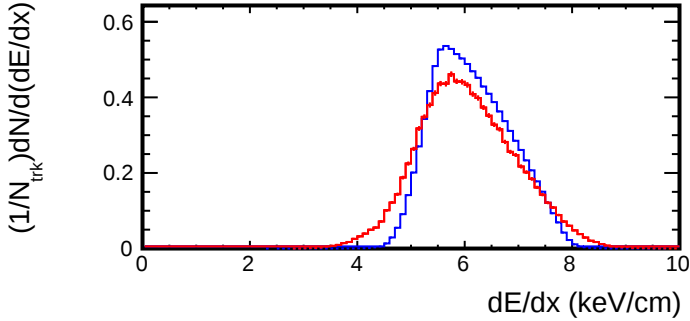
Reco p < 0.4 GeV/c



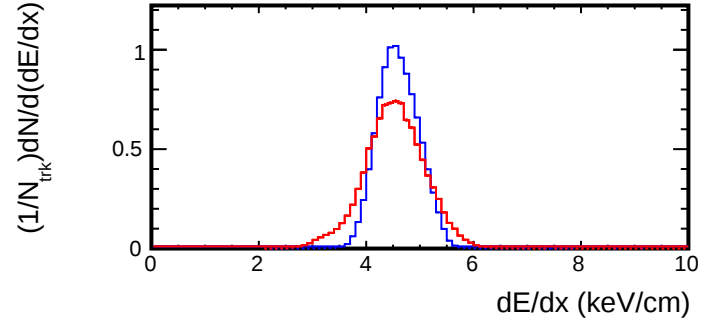
Reco p < 0.6 GeV/c



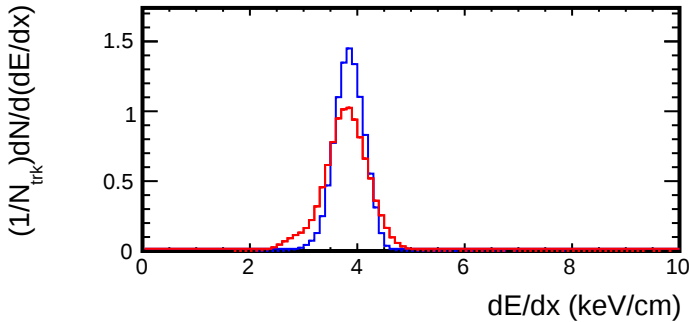
Reco p < 0.8 GeV/c



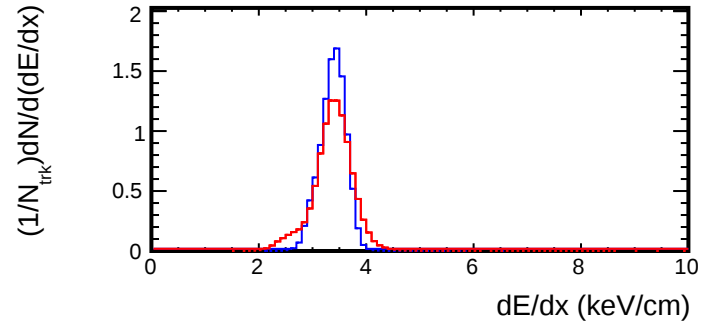
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



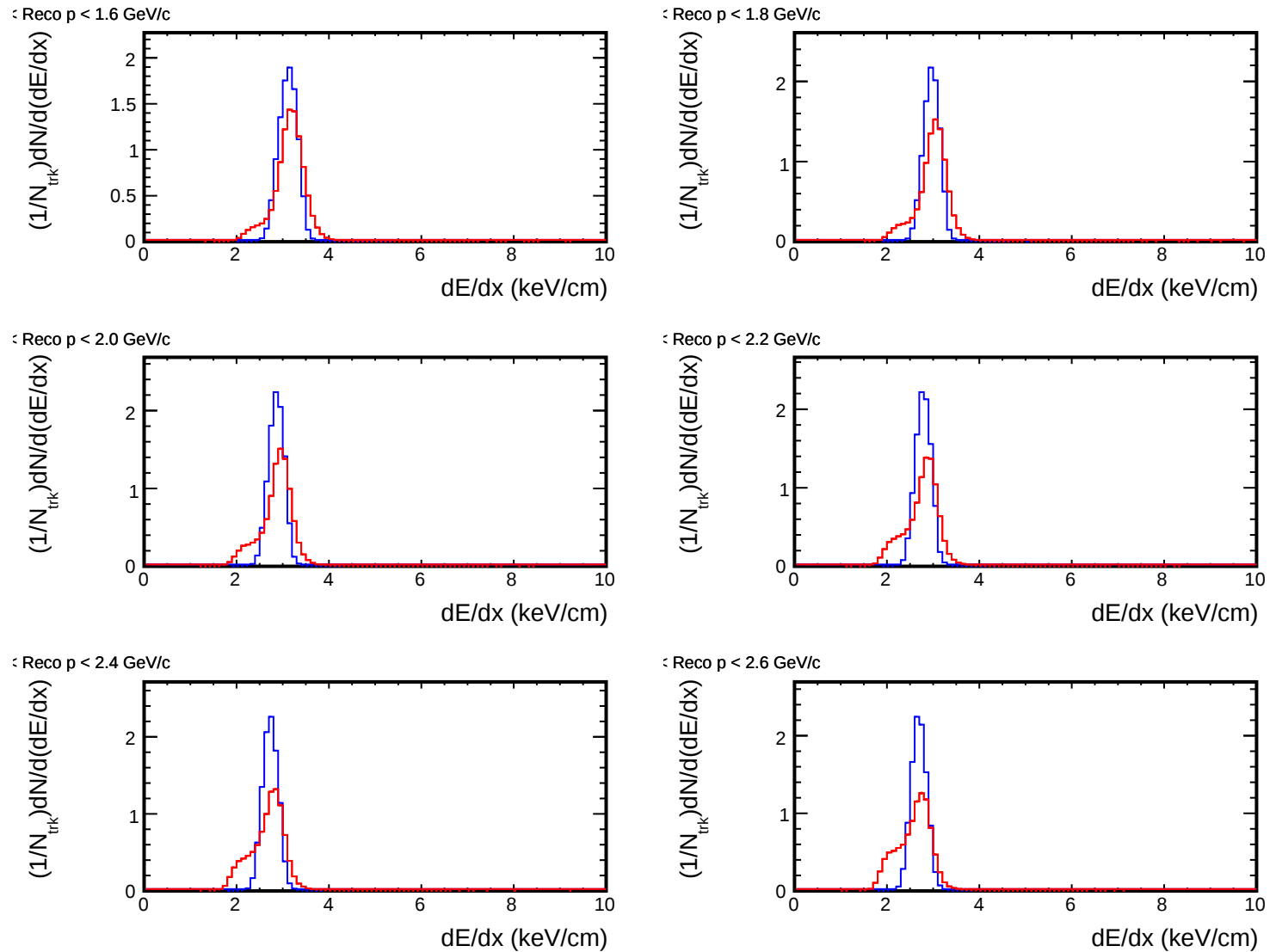
Reco p < 1.4 GeV/c



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

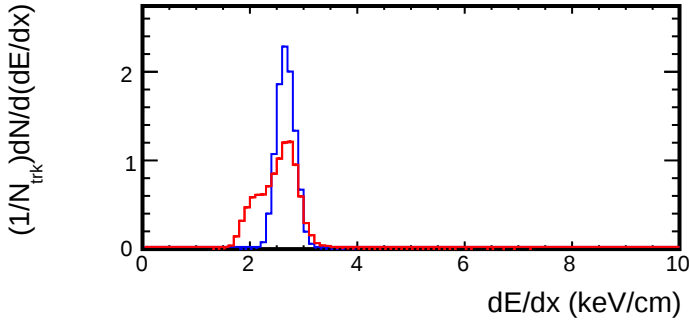


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

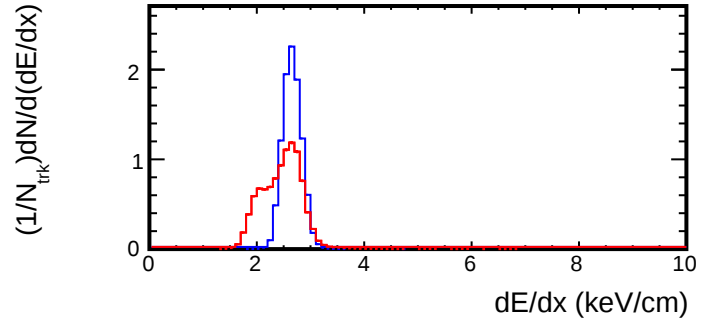
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

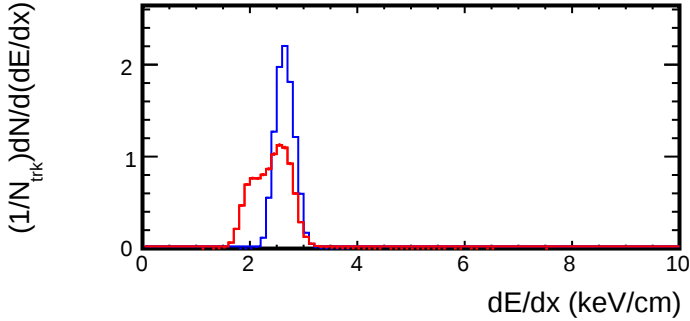
Reco p < 2.8 GeV/c



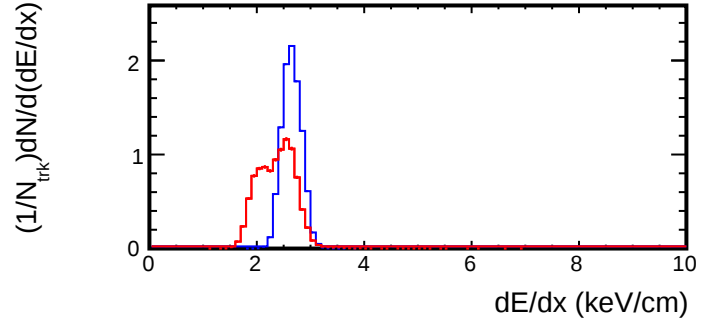
Reco p < 3.0 GeV/c



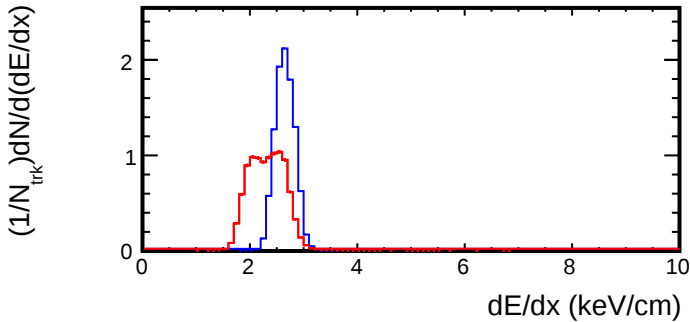
Reco p < 3.2 GeV/c



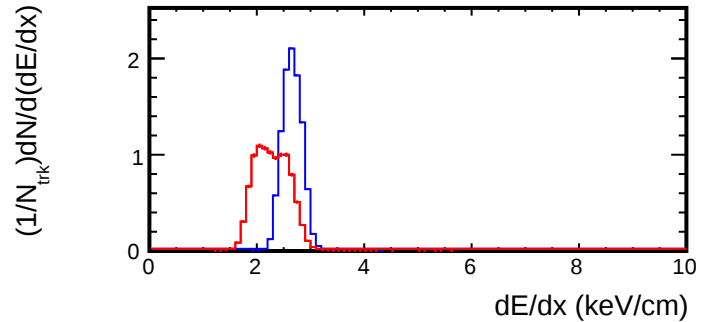
Reco p < 3.4 GeV/c



Reco p < 3.6 GeV/c



Reco p < 3.8 GeV/c

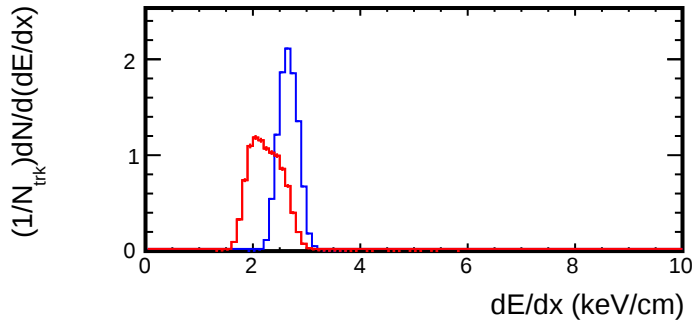


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

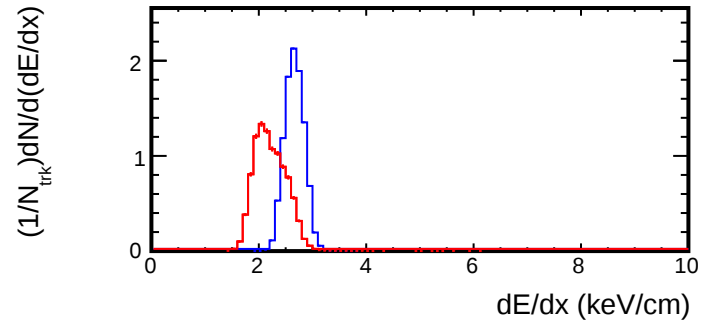
— proton
(PRIMARY, $|n\sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

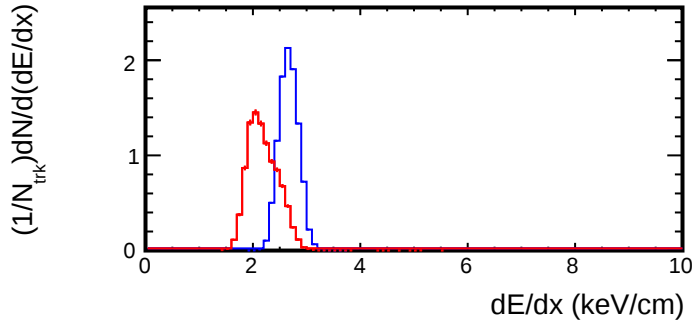
Reco p < 4.0 GeV/c



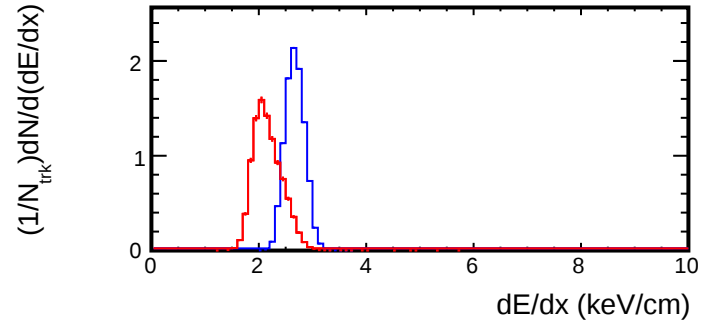
Reco p < 4.2 GeV/c



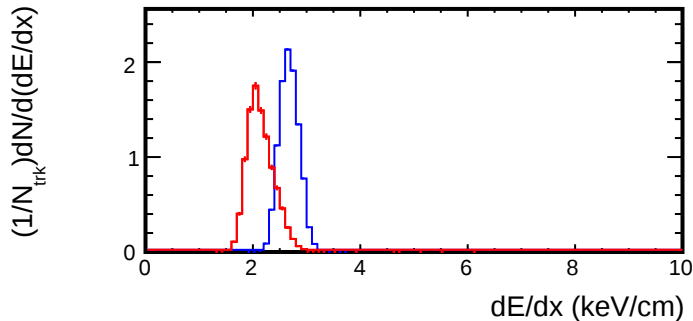
Reco p < 4.4 GeV/c



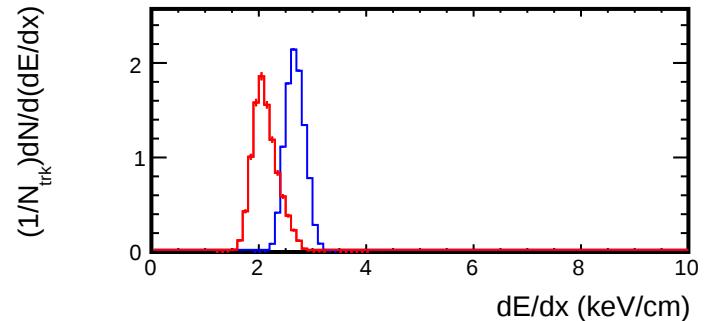
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c



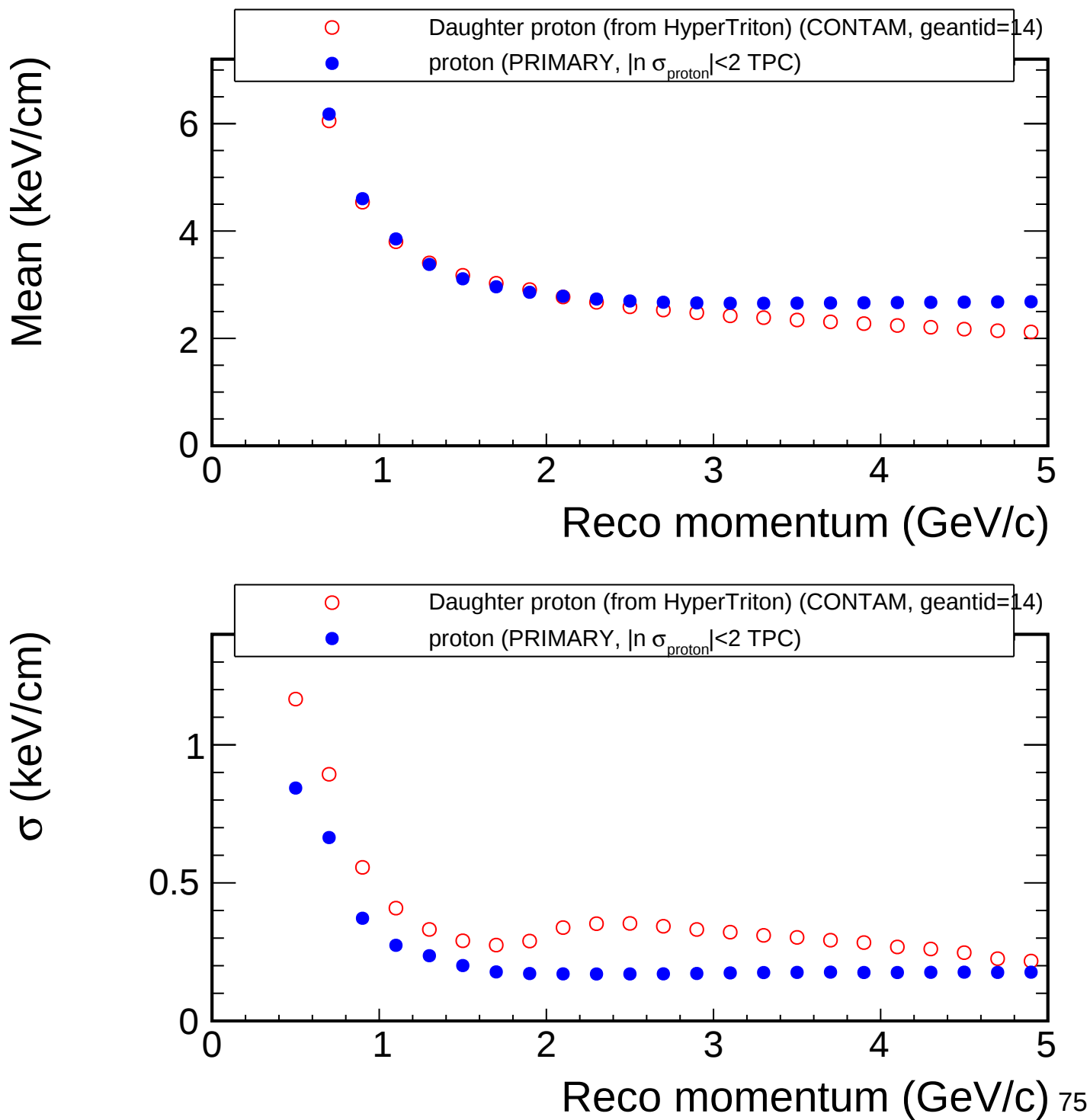
Reco p < 5.0 GeV/c



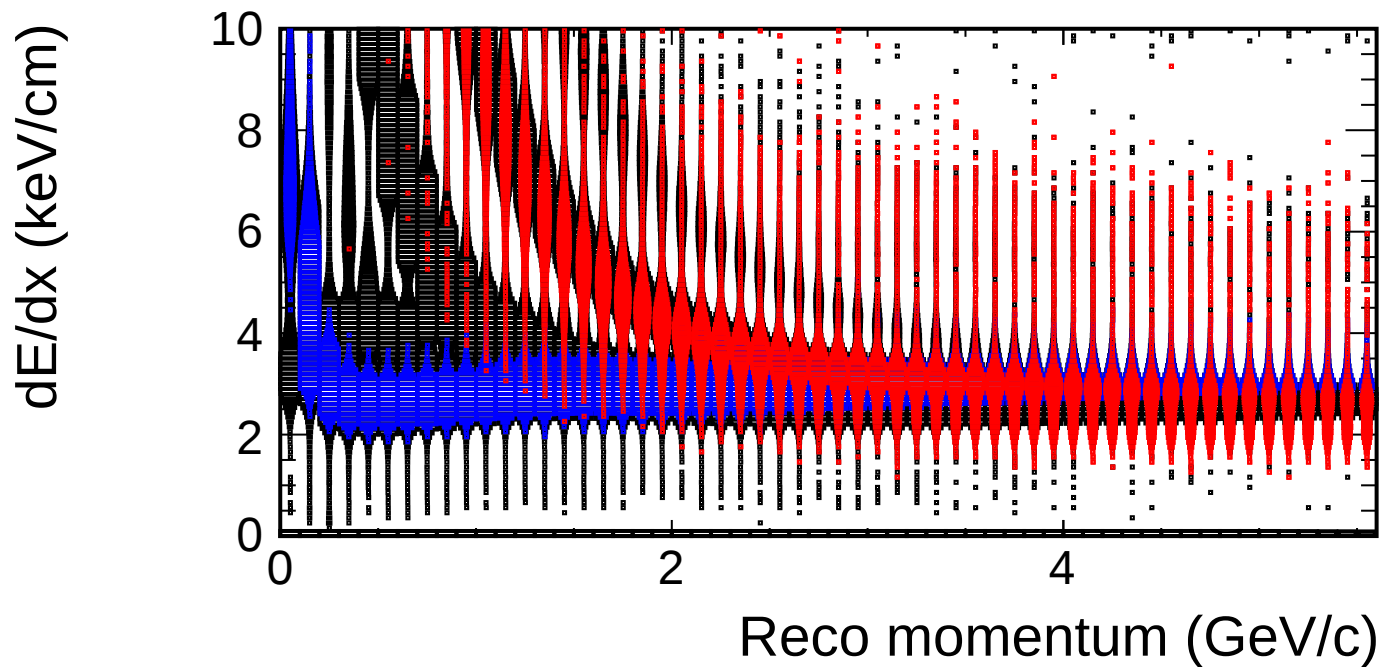
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|n\sigma_{\text{proton}}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum

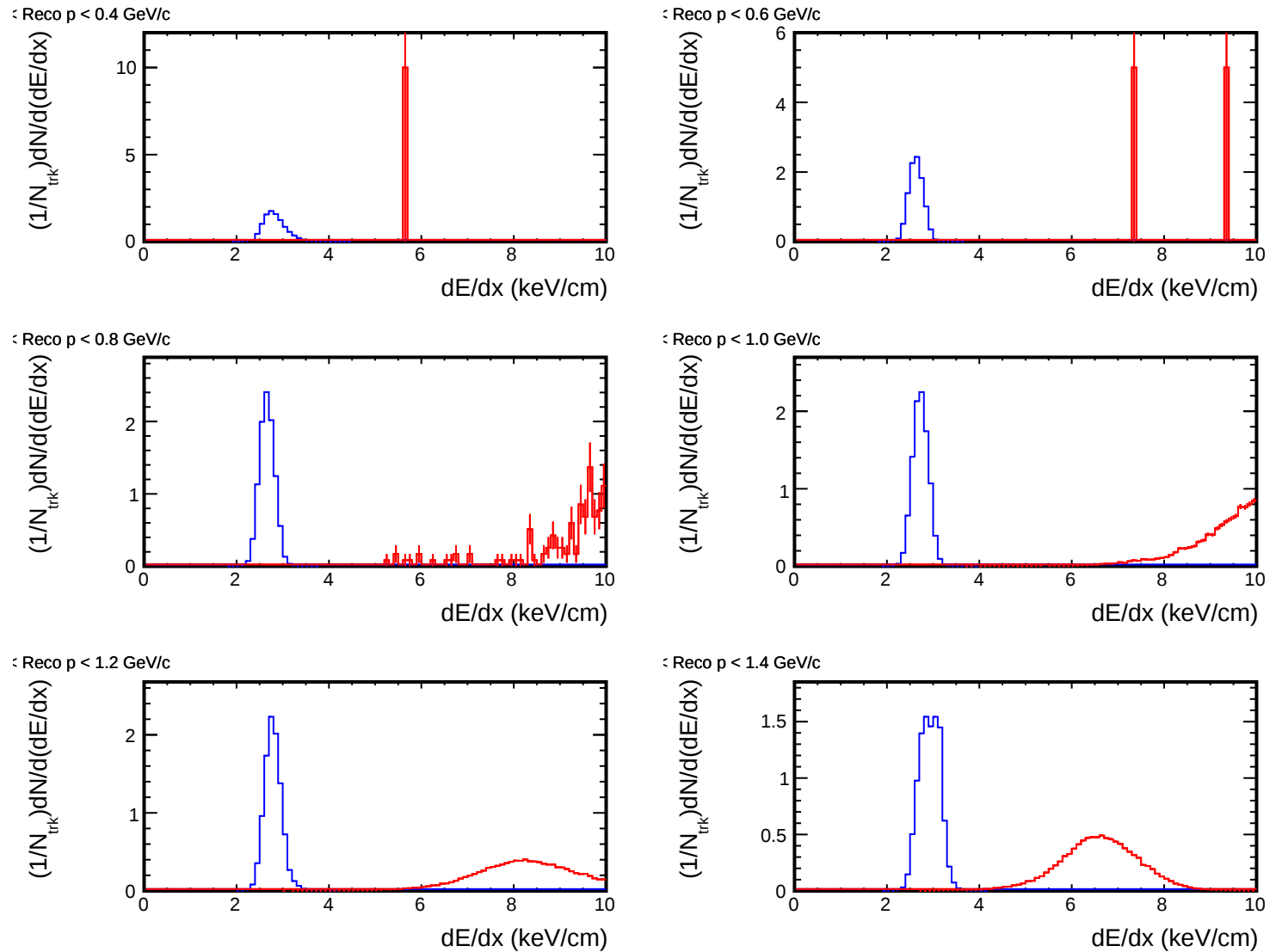


dE/dx vs momentum (Embedding:deuteron, Real:deuteron)



- Daughter deuteron (from HyperTriton) (CONTAM, geantid=45)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

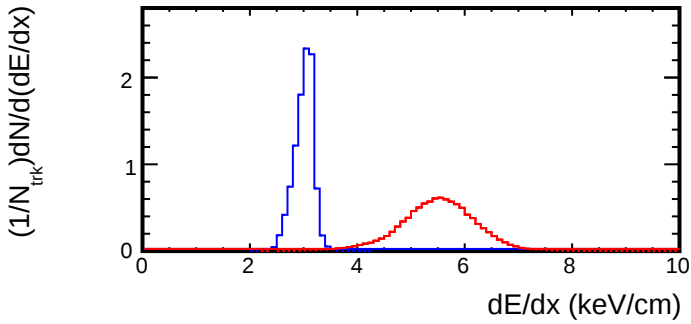


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

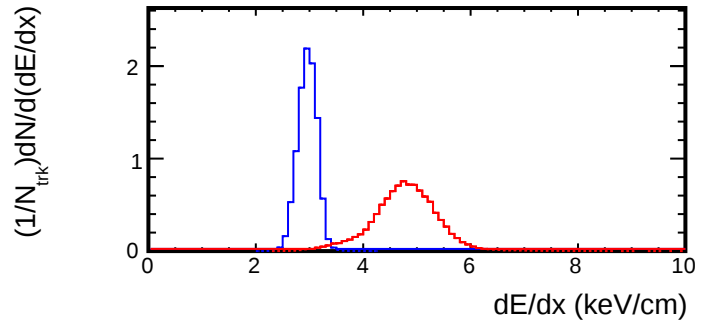
— π^+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

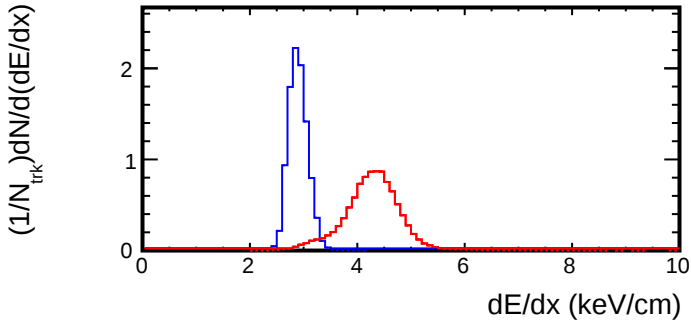
Reco p < 1.6 GeV/c



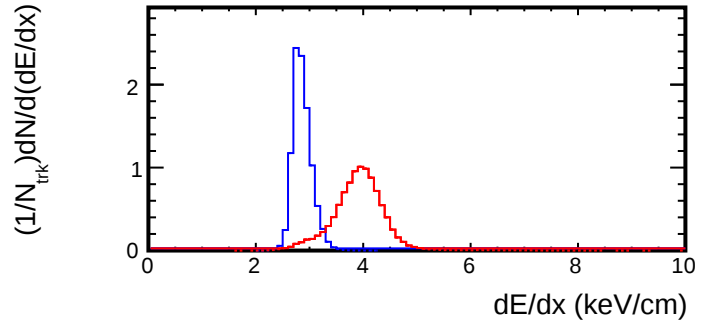
Reco p < 1.8 GeV/c



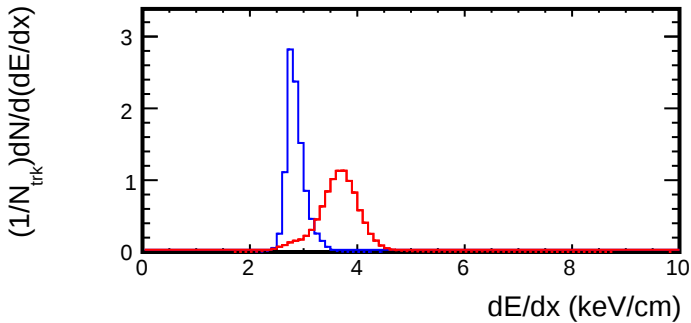
Reco p < 2.0 GeV/c



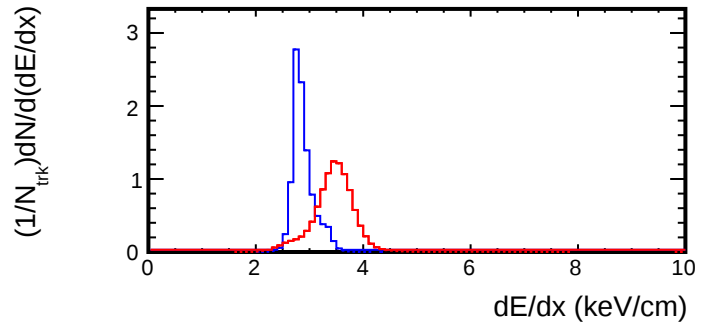
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



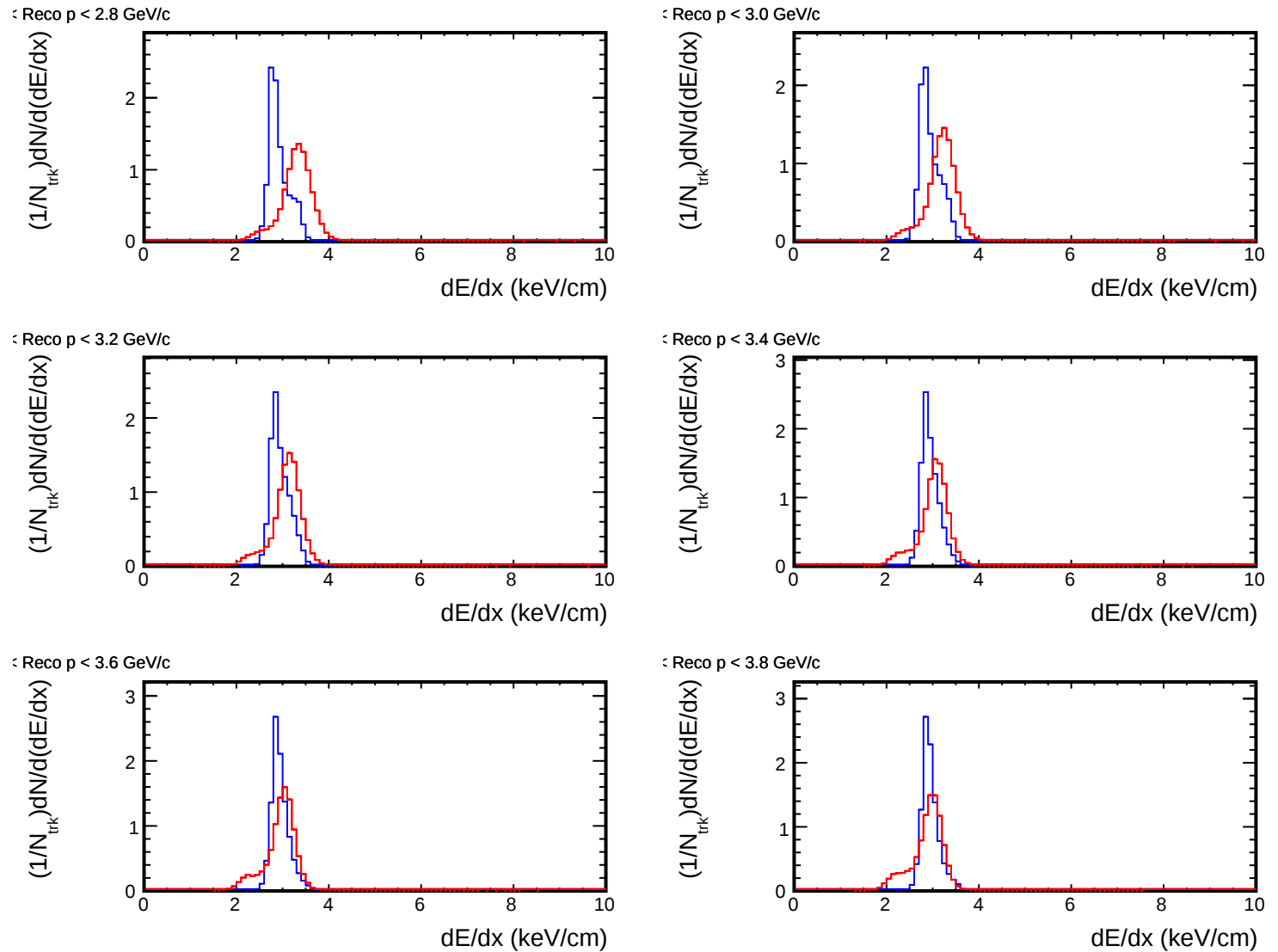
Reco p < 2.6 GeV/c



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— pi+
(PRIMARY, $|n\sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

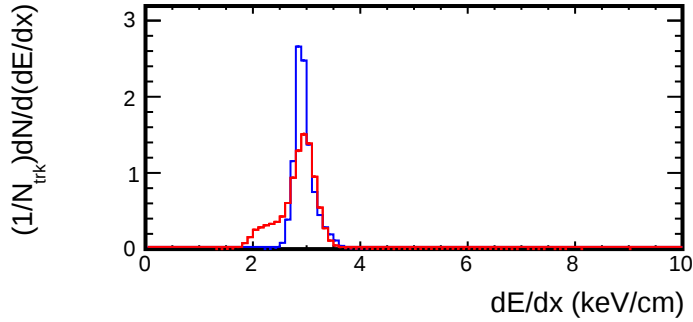


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

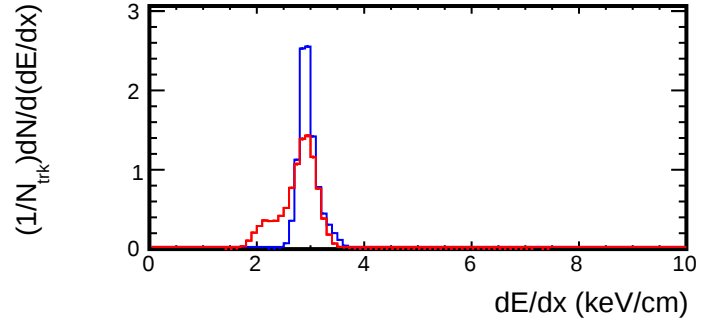
— pi+
(PRIMARY, $|n \sigma_{\text{pi}^+}| < 2$ TPC)

Projection of dE/dx for each p bin

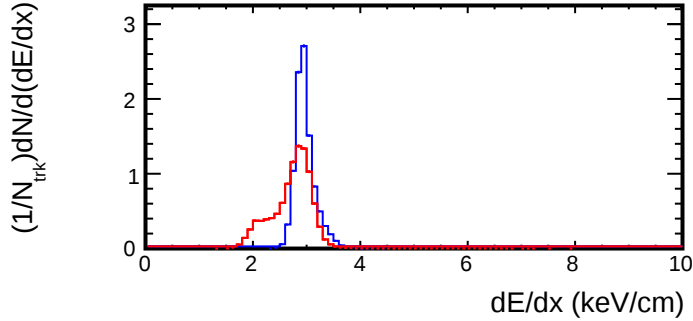
Reco p < 4.0 GeV/c



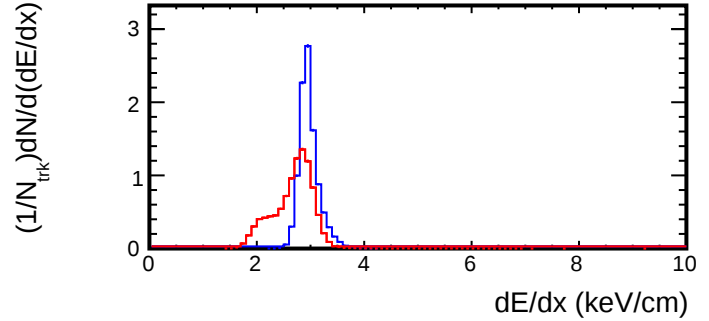
Reco p < 4.2 GeV/c



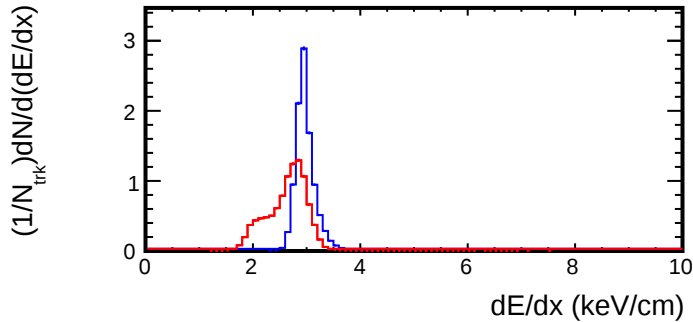
Reco p < 4.4 GeV/c



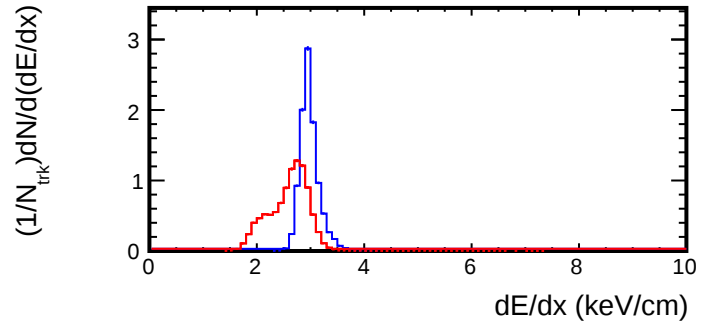
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c



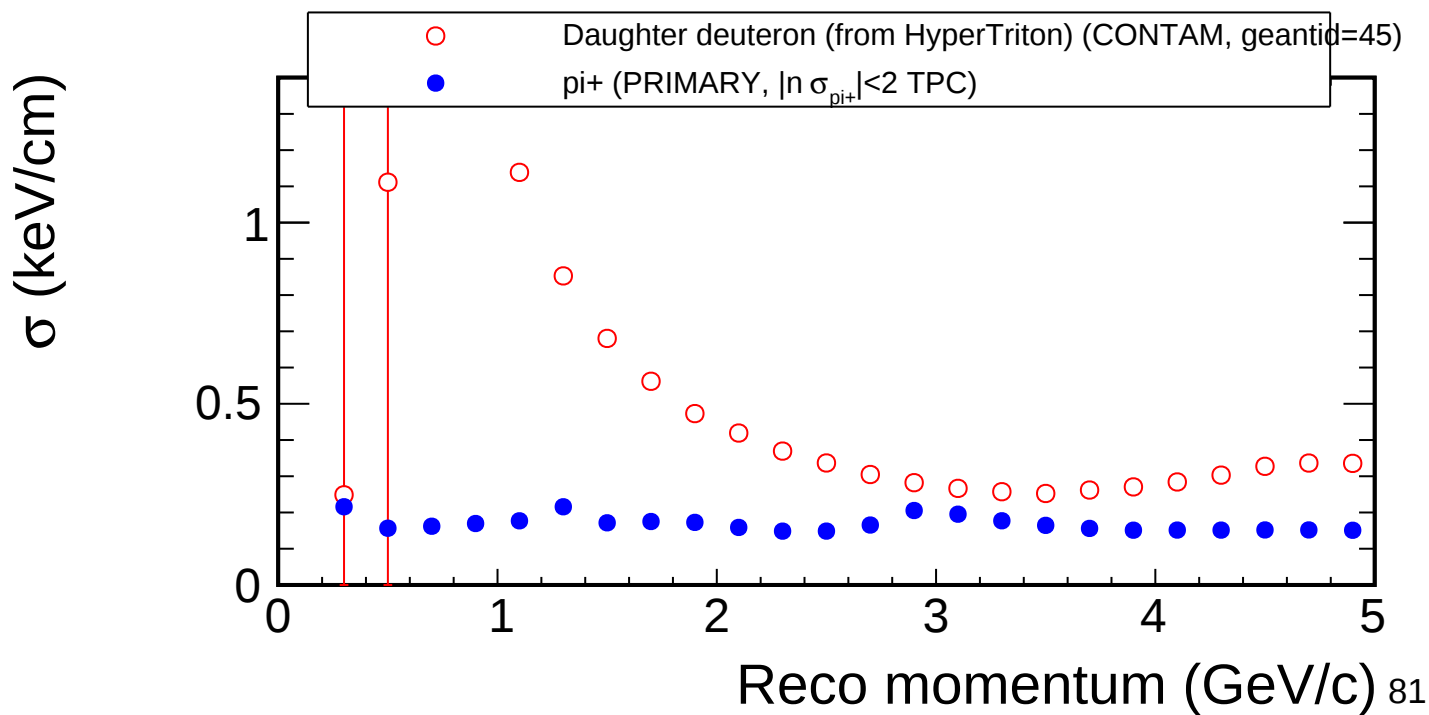
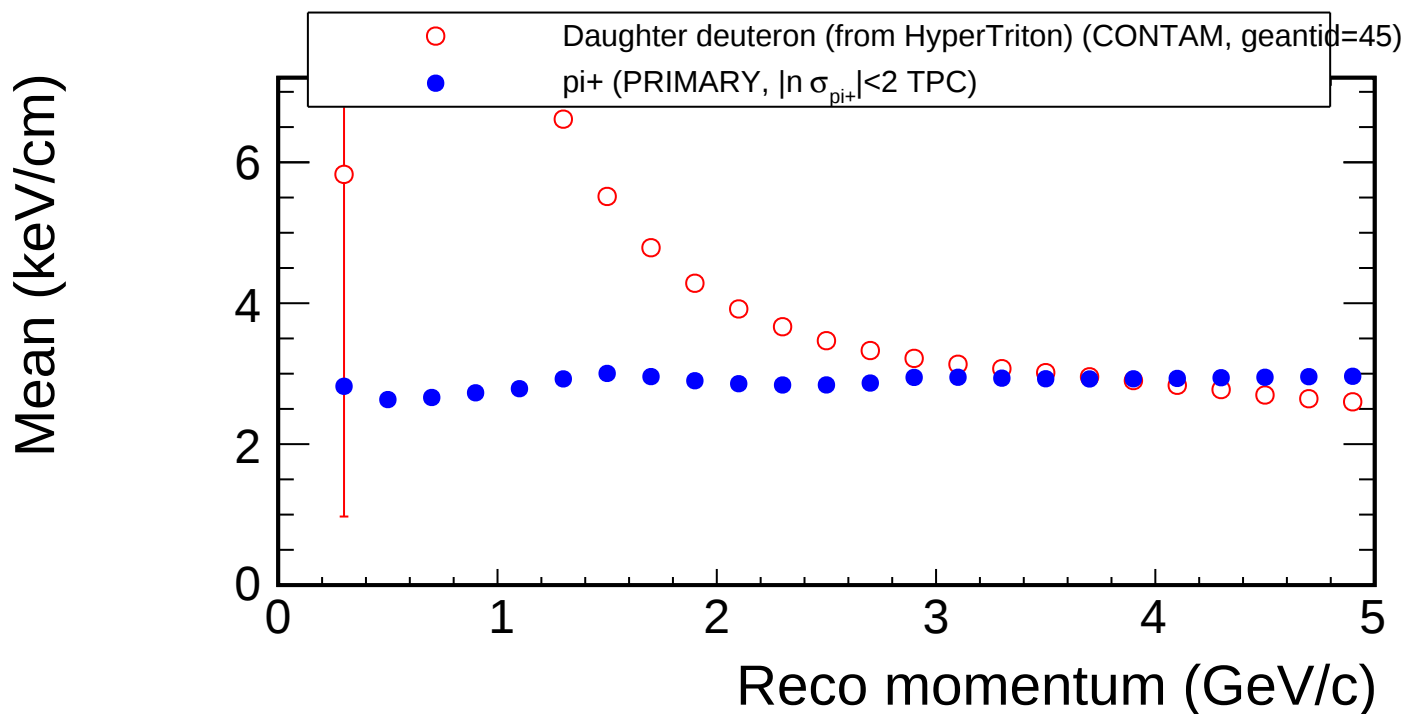
Reco p < 5.0 GeV/c



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

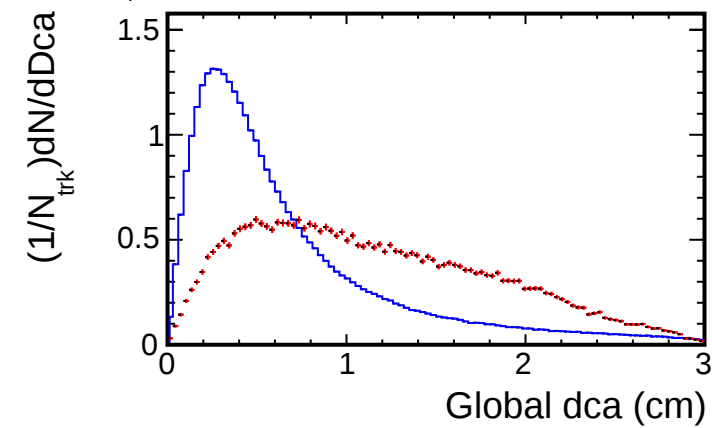
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum

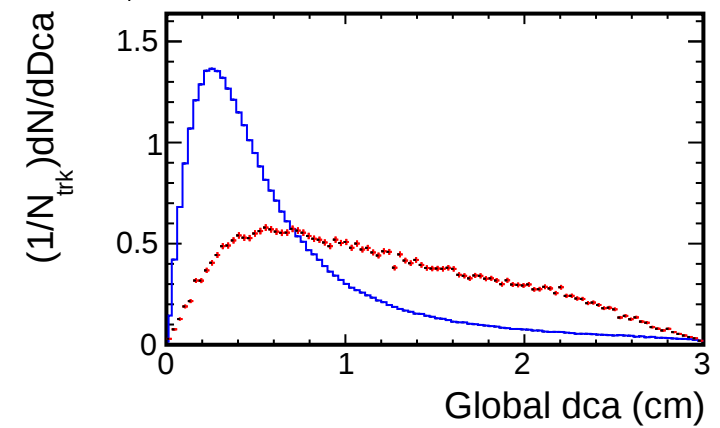


Dca distribution for (p_T , η) slices

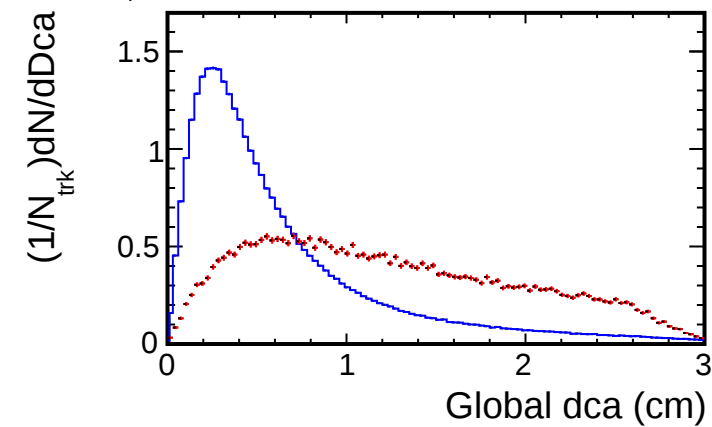
1.8, $0.1 < p_T < 0.5$ (GeV/c)



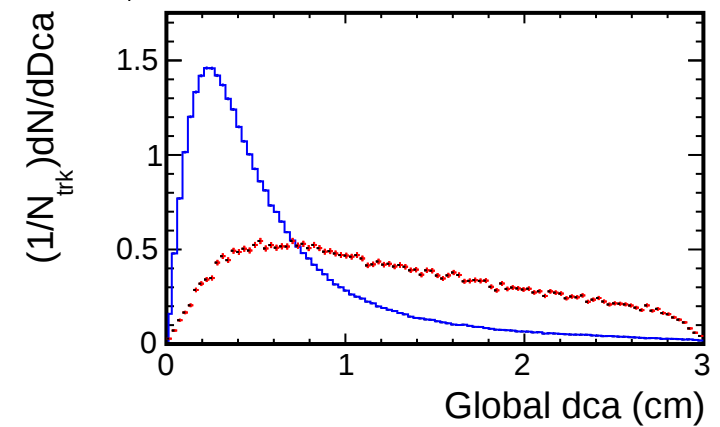
1.6, $0.1 < p_T < 0.5$ (GeV/c)



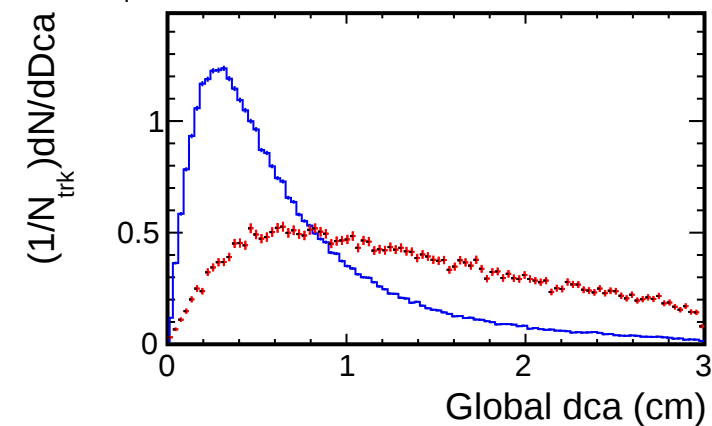
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



1.0, $0.1 < p_T < 0.5$ (GeV/c)

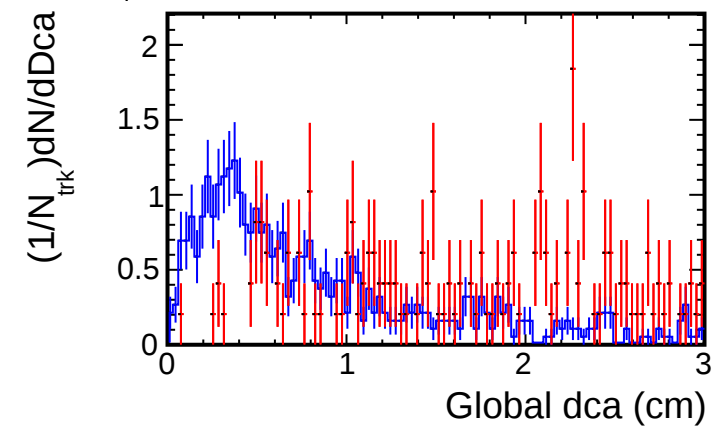


— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

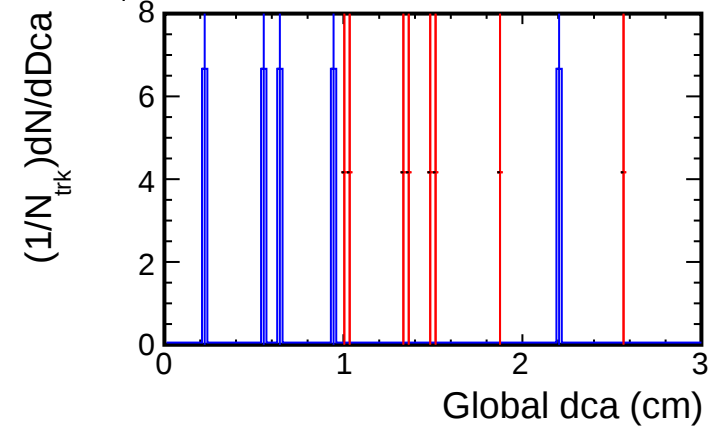
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

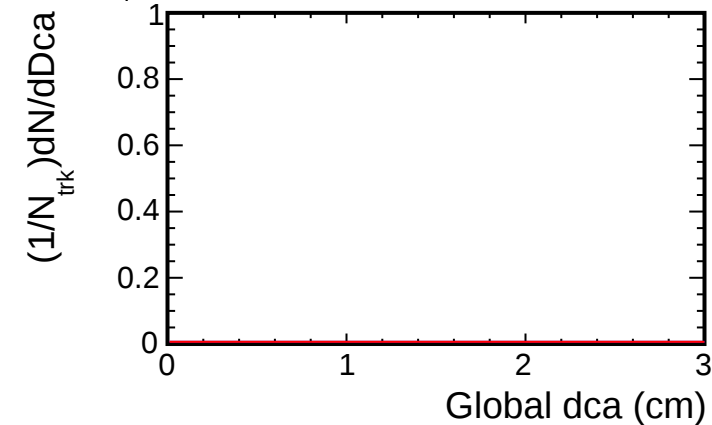
2, $0.1 < p_T < 0.5$ (GeV/c)



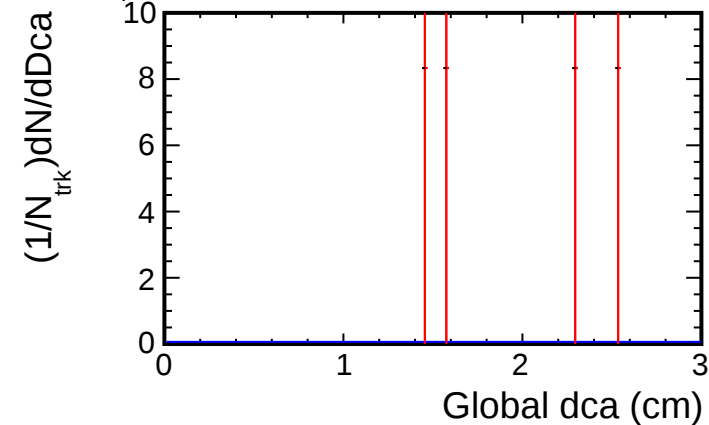
4, $0.1 < p_T < 0.5$ (GeV/c)



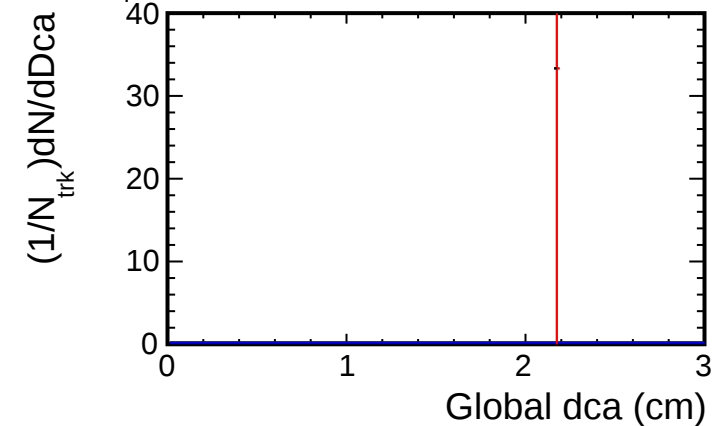
6, $0.1 < p_T < 0.5$ (GeV/c)



8, $0.1 < p_T < 0.5$ (GeV/c)



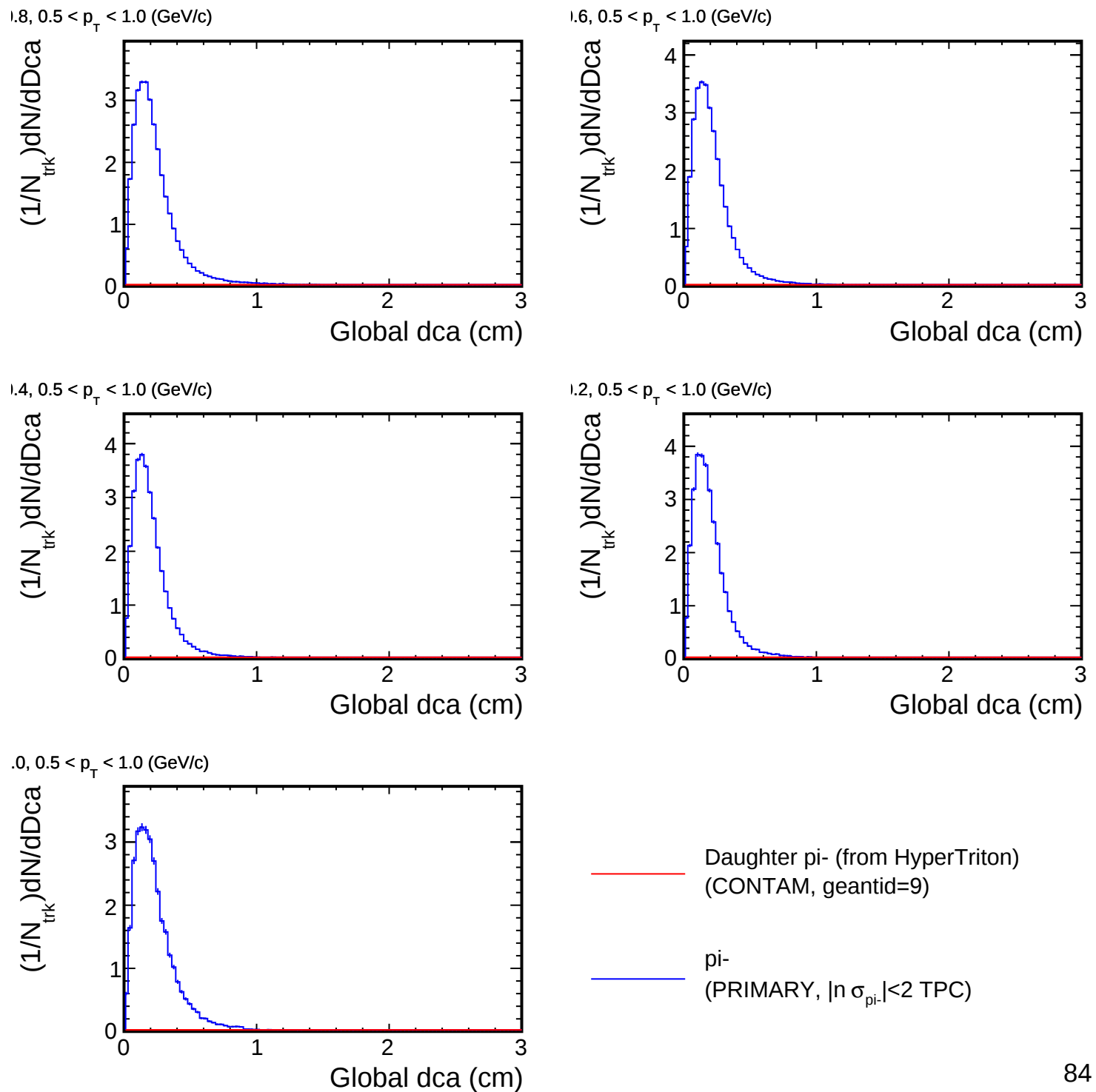
0, $0.1 < p_T < 0.5$ (GeV/c)



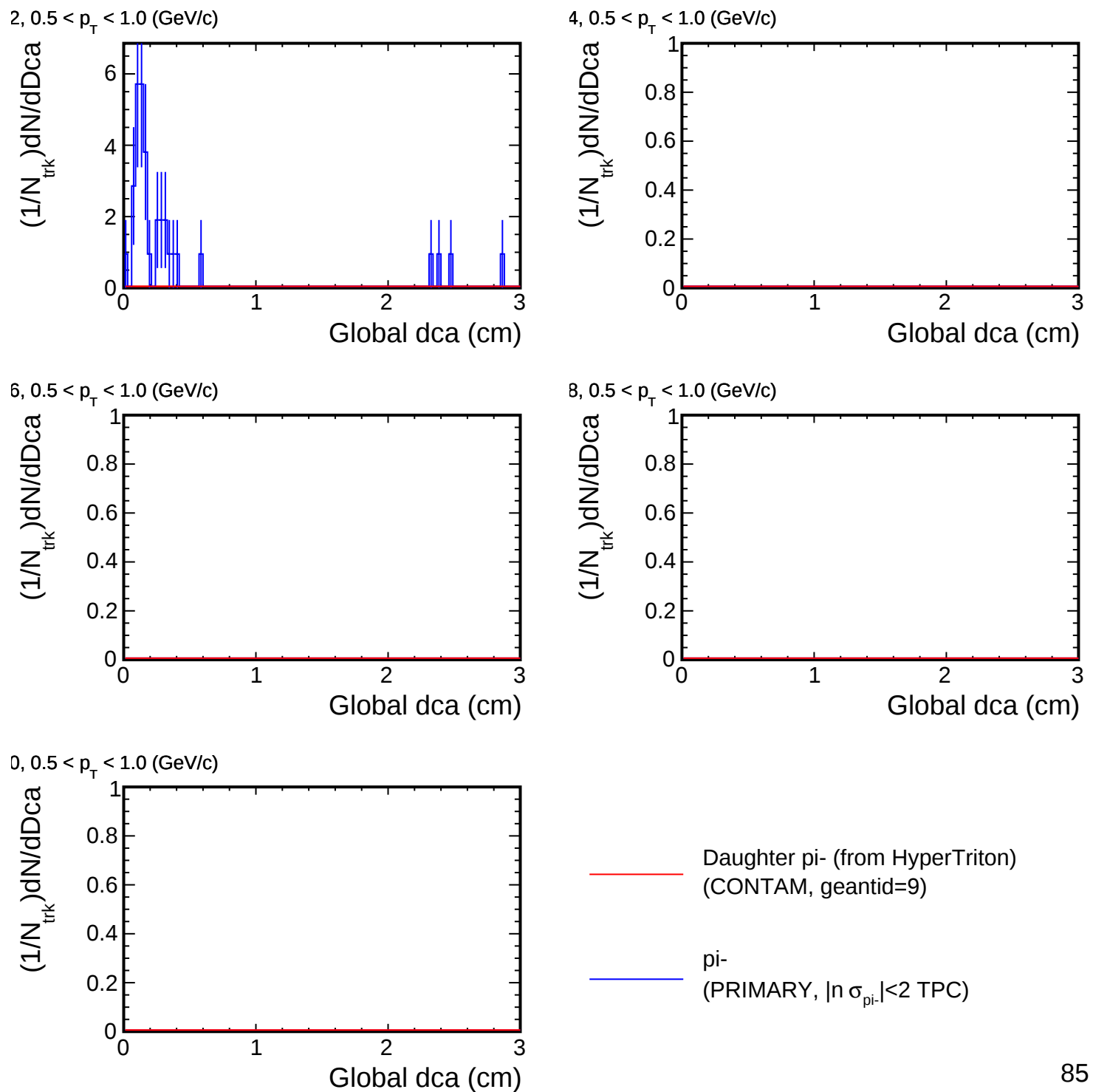
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|\ln \sigma_{\text{pi-}}| < 2$ TPC)

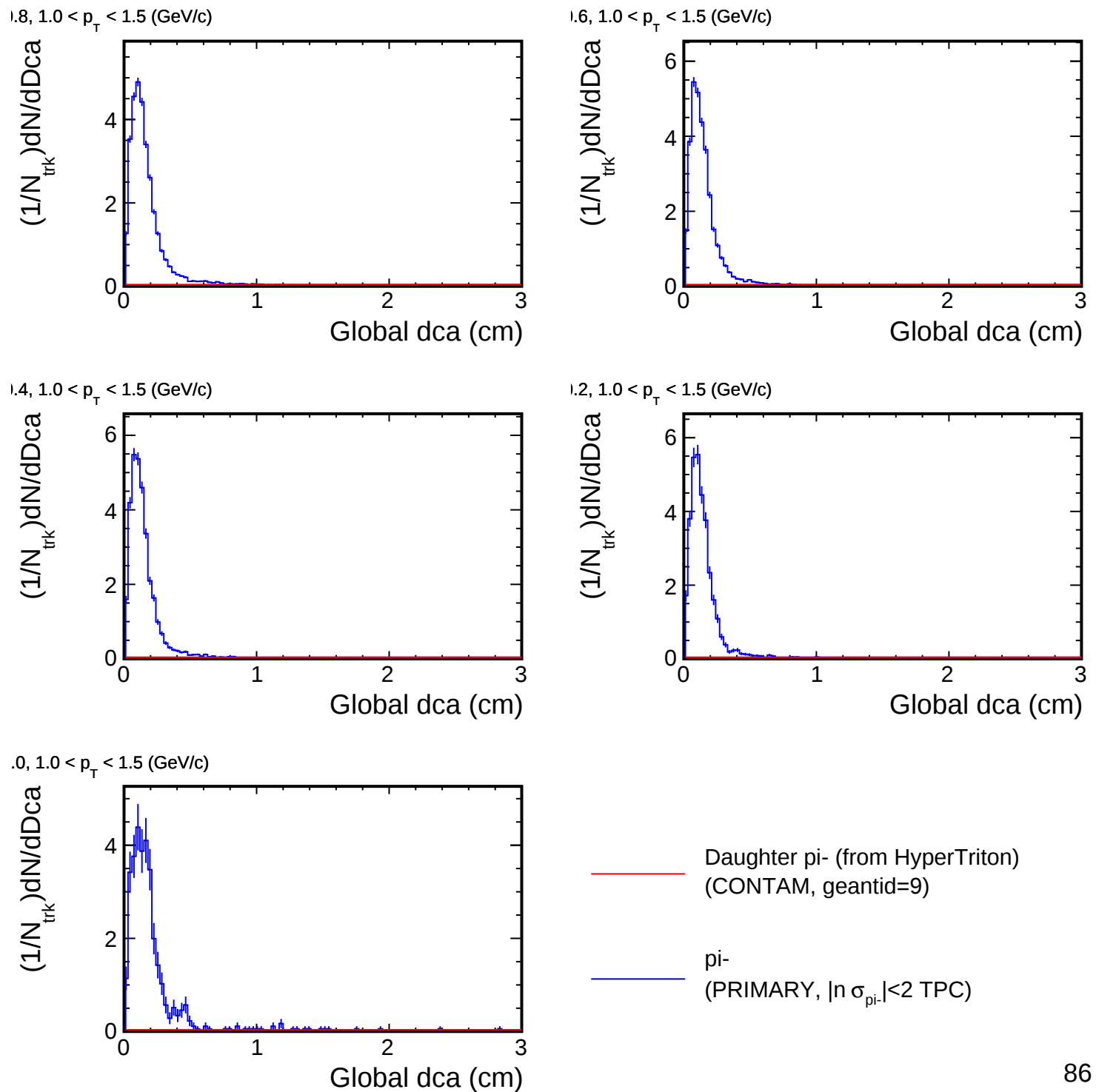
Dca distribution for (p_T , η) slices



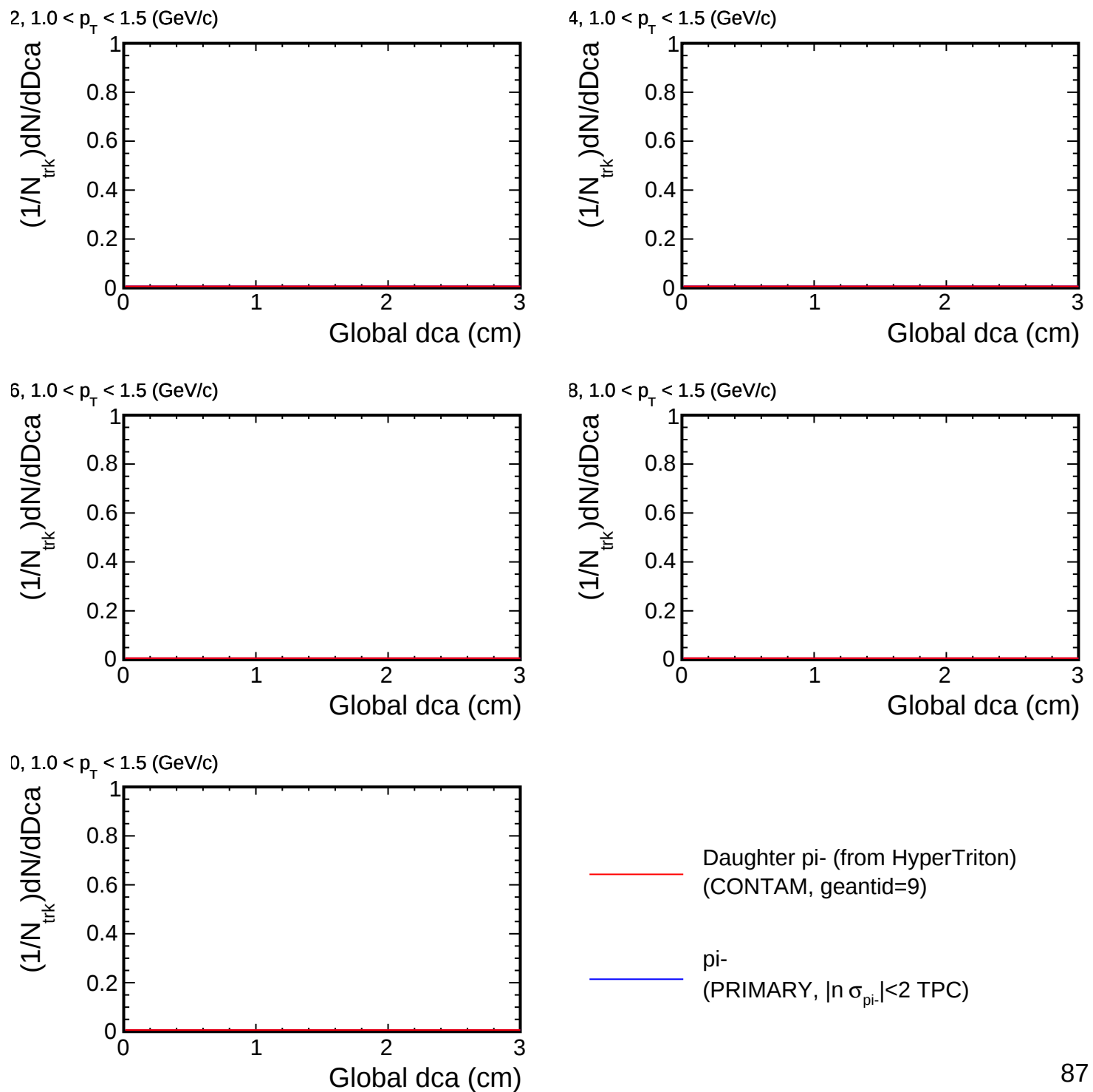
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

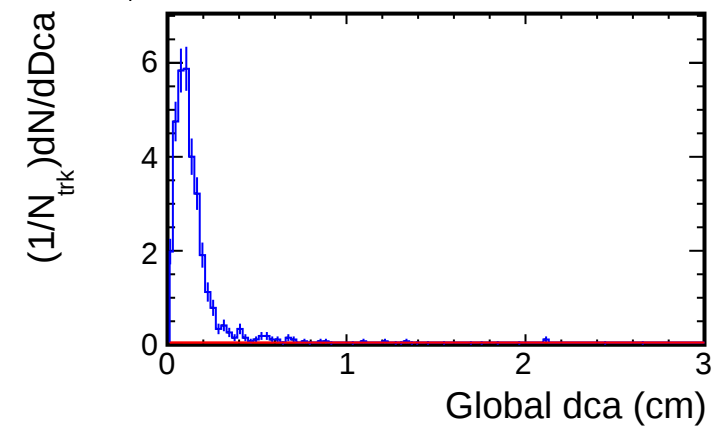


Dca distribution for (p_T , η) slices

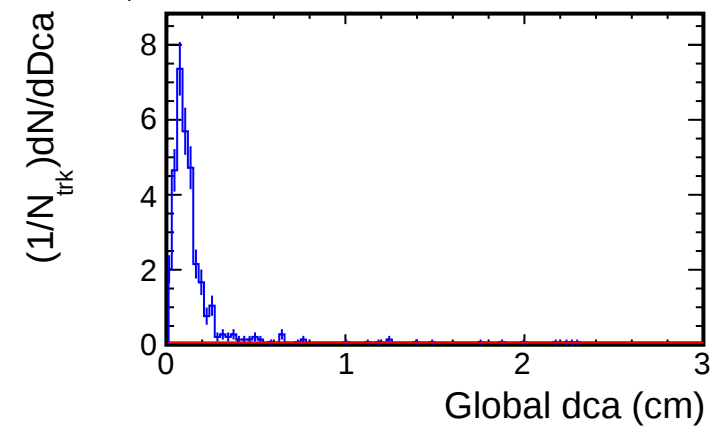


Dca distribution for (p_T , η) slices

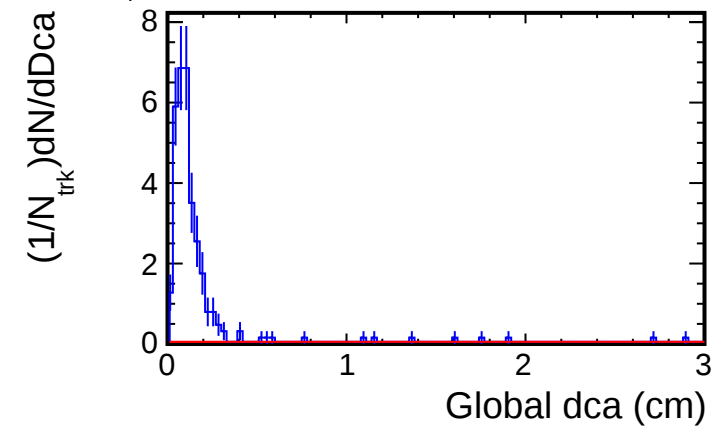
1.8, $1.5 < p_T < 2.0$ (GeV/c)



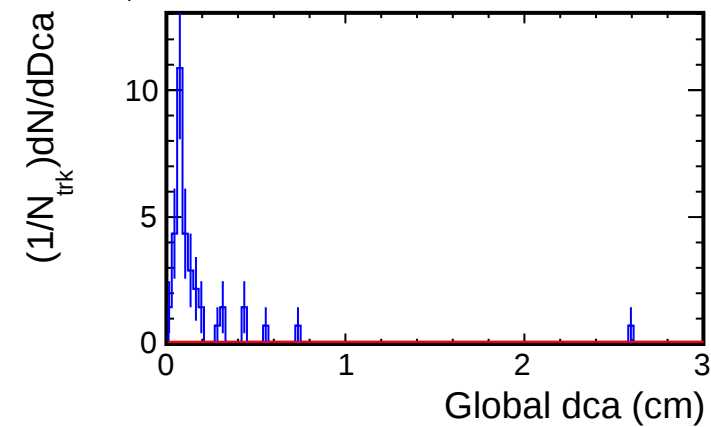
1.6, $1.5 < p_T < 2.0$ (GeV/c)



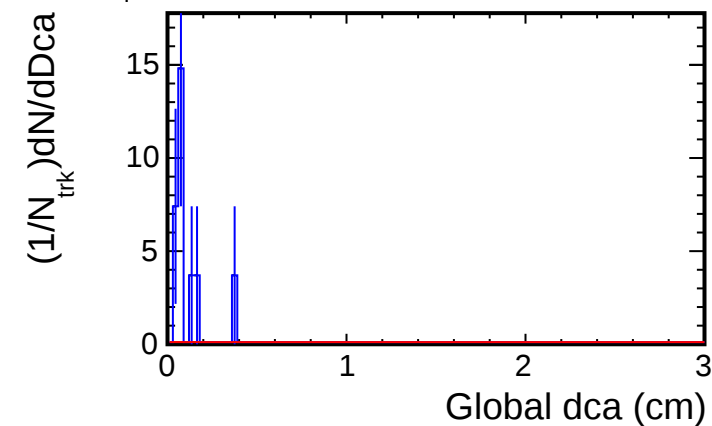
1.4, $1.5 < p_T < 2.0$ (GeV/c)



1.2, $1.5 < p_T < 2.0$ (GeV/c)



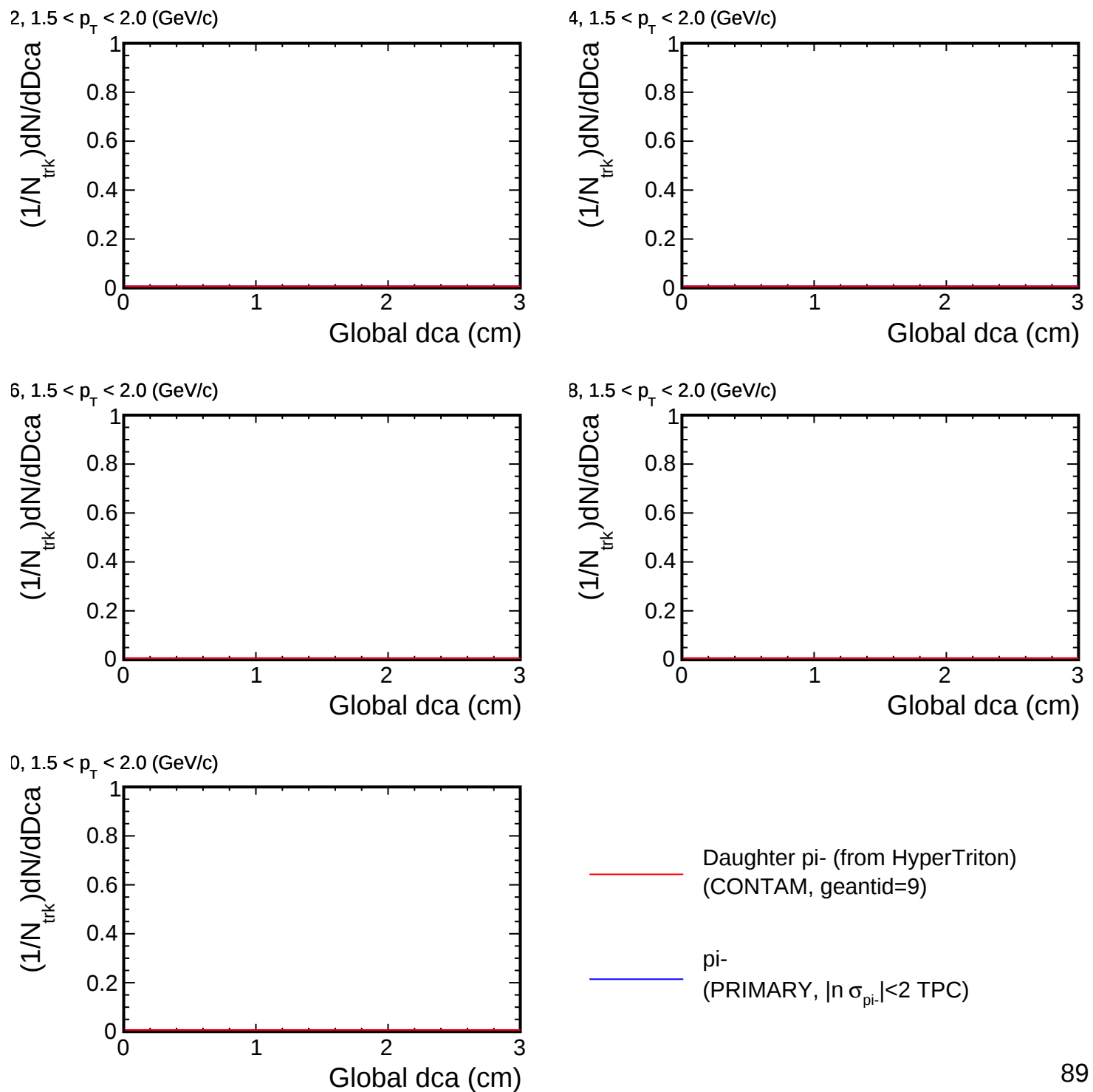
1.0, $1.5 < p_T < 2.0$ (GeV/c)



— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

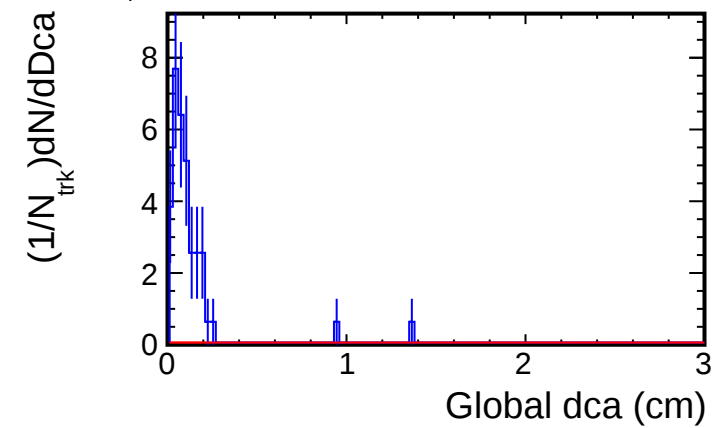
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

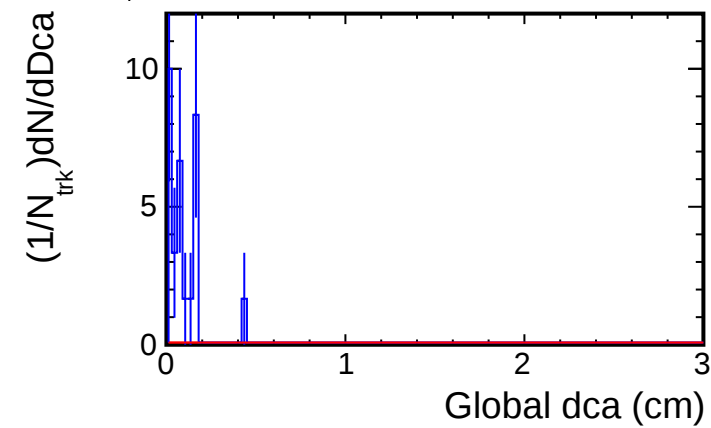


Dca distribution for (p_T , η) slices

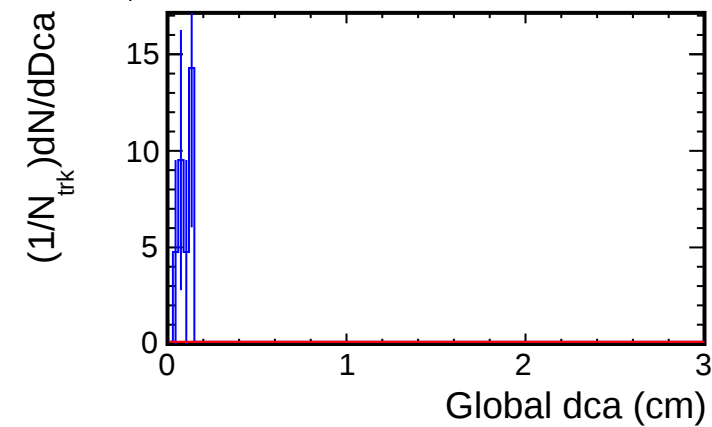
1.8, $2.0 < p_T < 2.5$ (GeV/c)



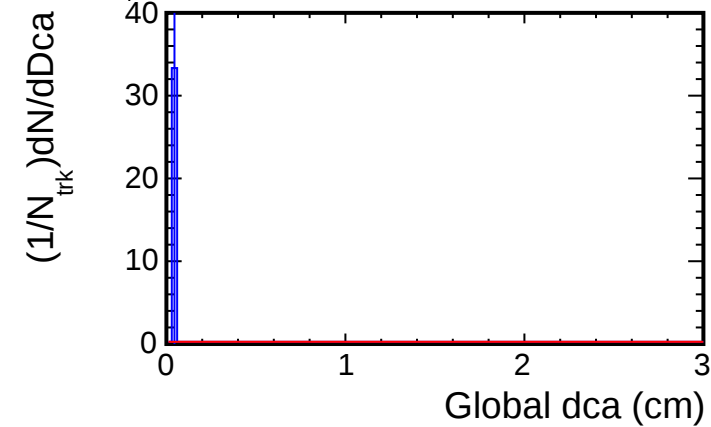
1.6, $2.0 < p_T < 2.5$ (GeV/c)



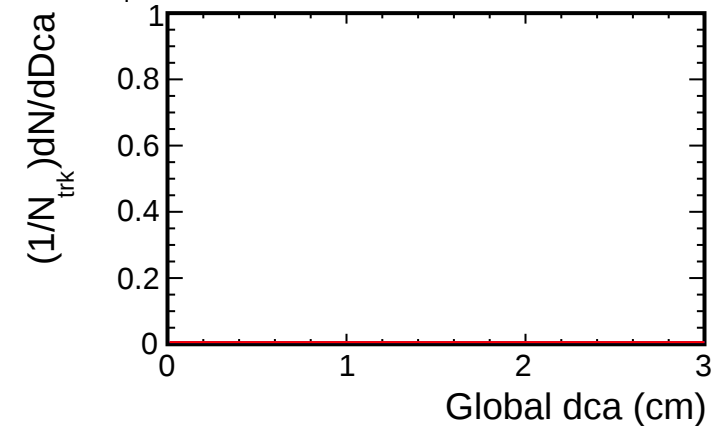
1.4, $2.0 < p_T < 2.5$ (GeV/c)



1.2, $2.0 < p_T < 2.5$ (GeV/c)



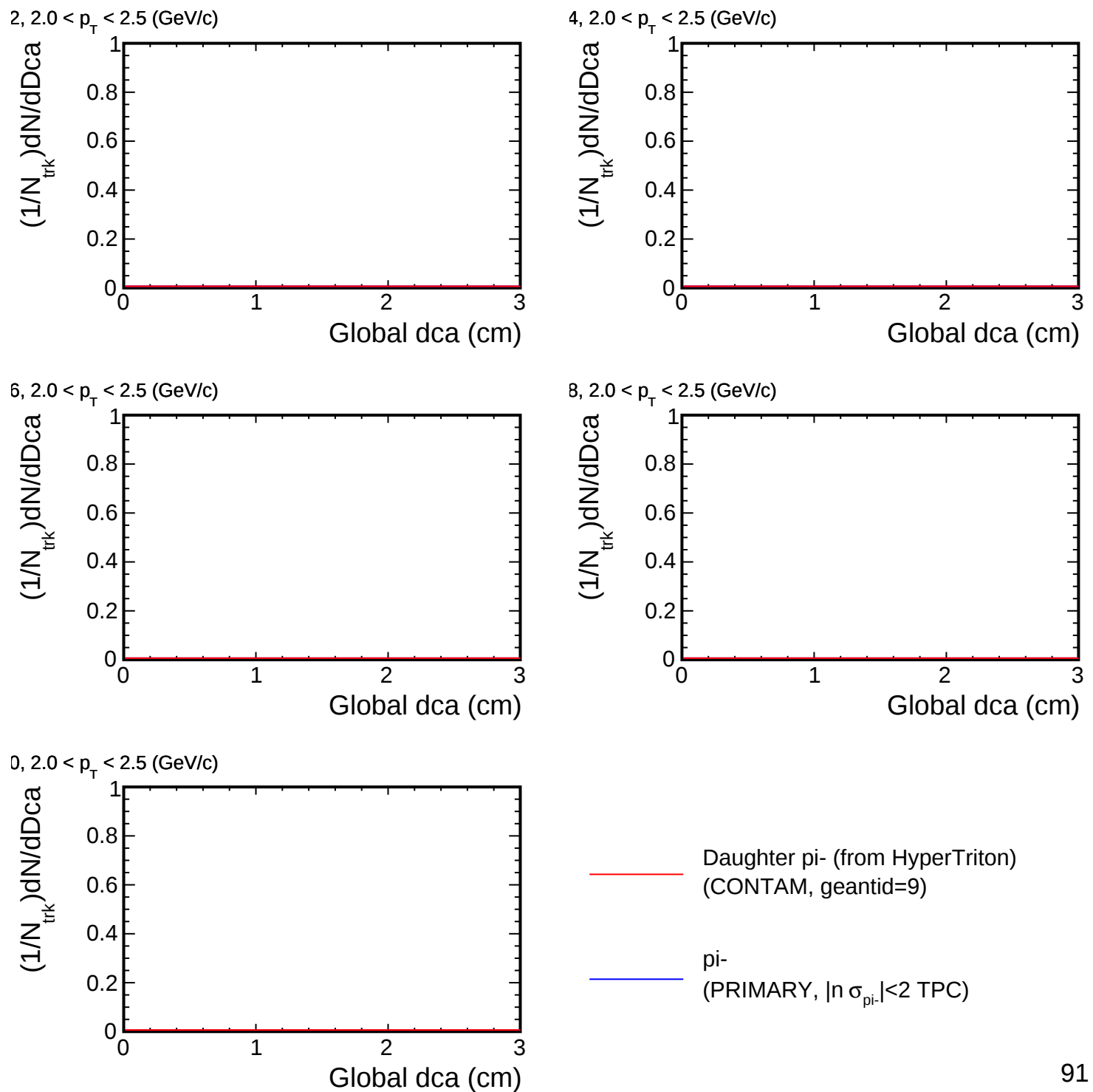
1.0, $2.0 < p_T < 2.5$ (GeV/c)



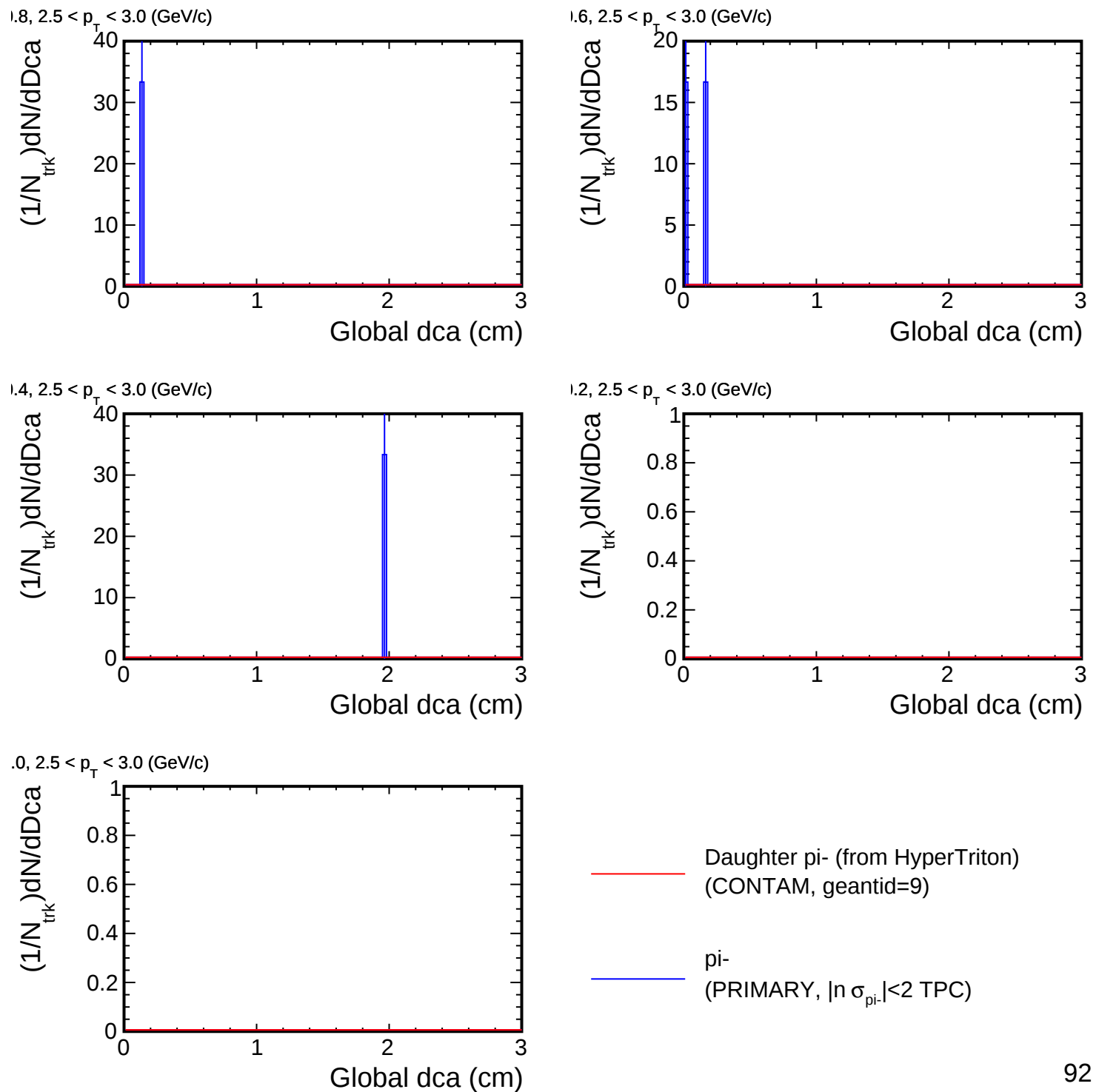
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

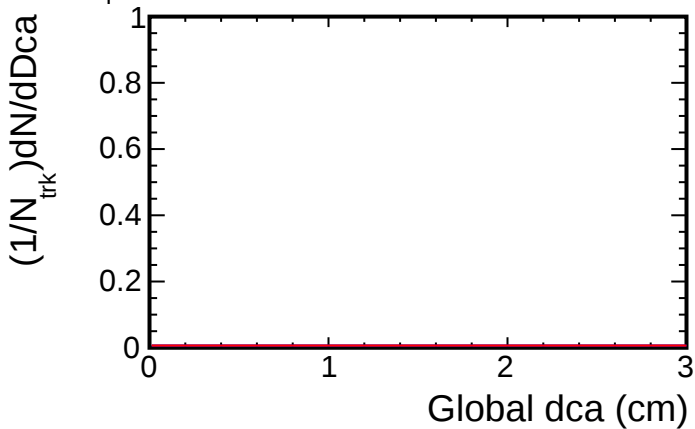


Dca distribution for (p_T , η) slices

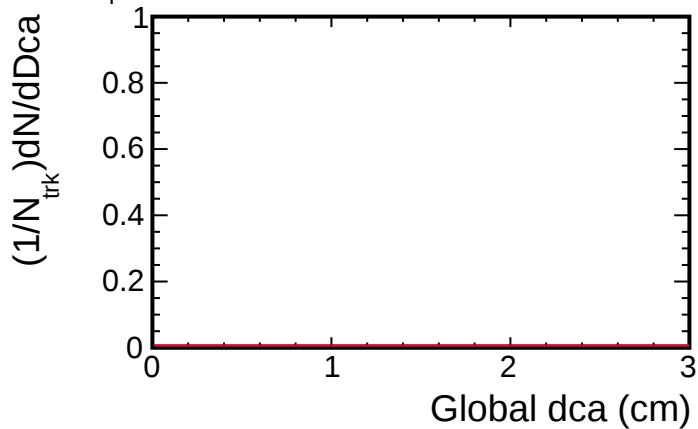


Dca distribution for (p_T , η) slices

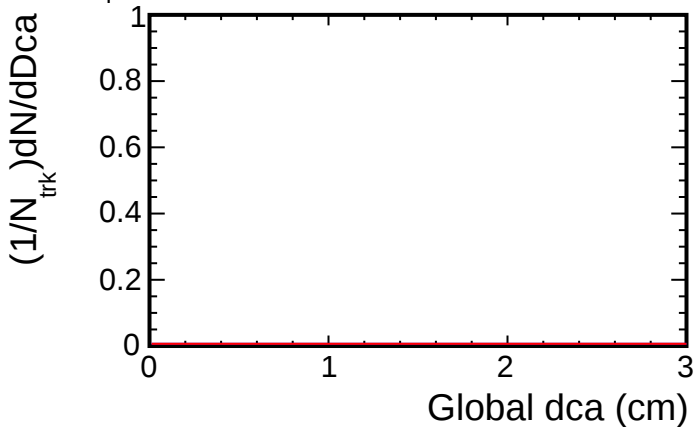
2, $2.5 < p_T < 3.0$ (GeV/c)



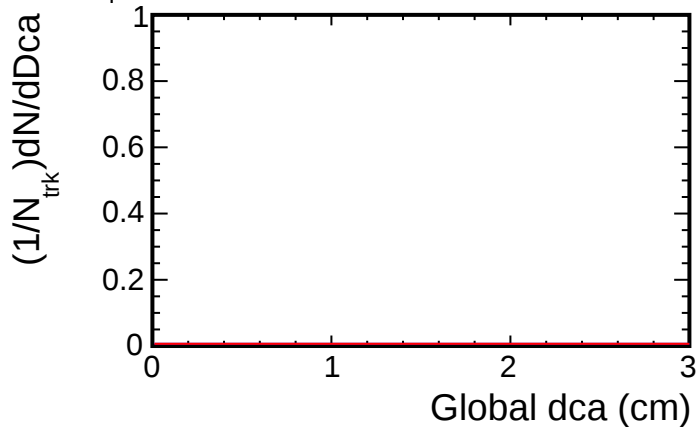
4, $2.5 < p_T < 3.0$ (GeV/c)



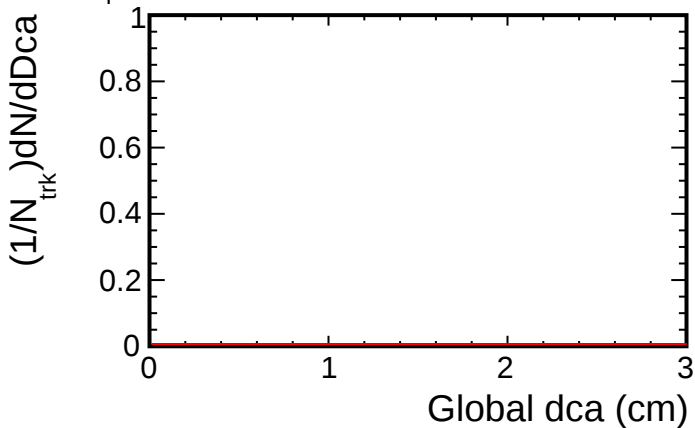
6, $2.5 < p_T < 3.0$ (GeV/c)



8, $2.5 < p_T < 3.0$ (GeV/c)



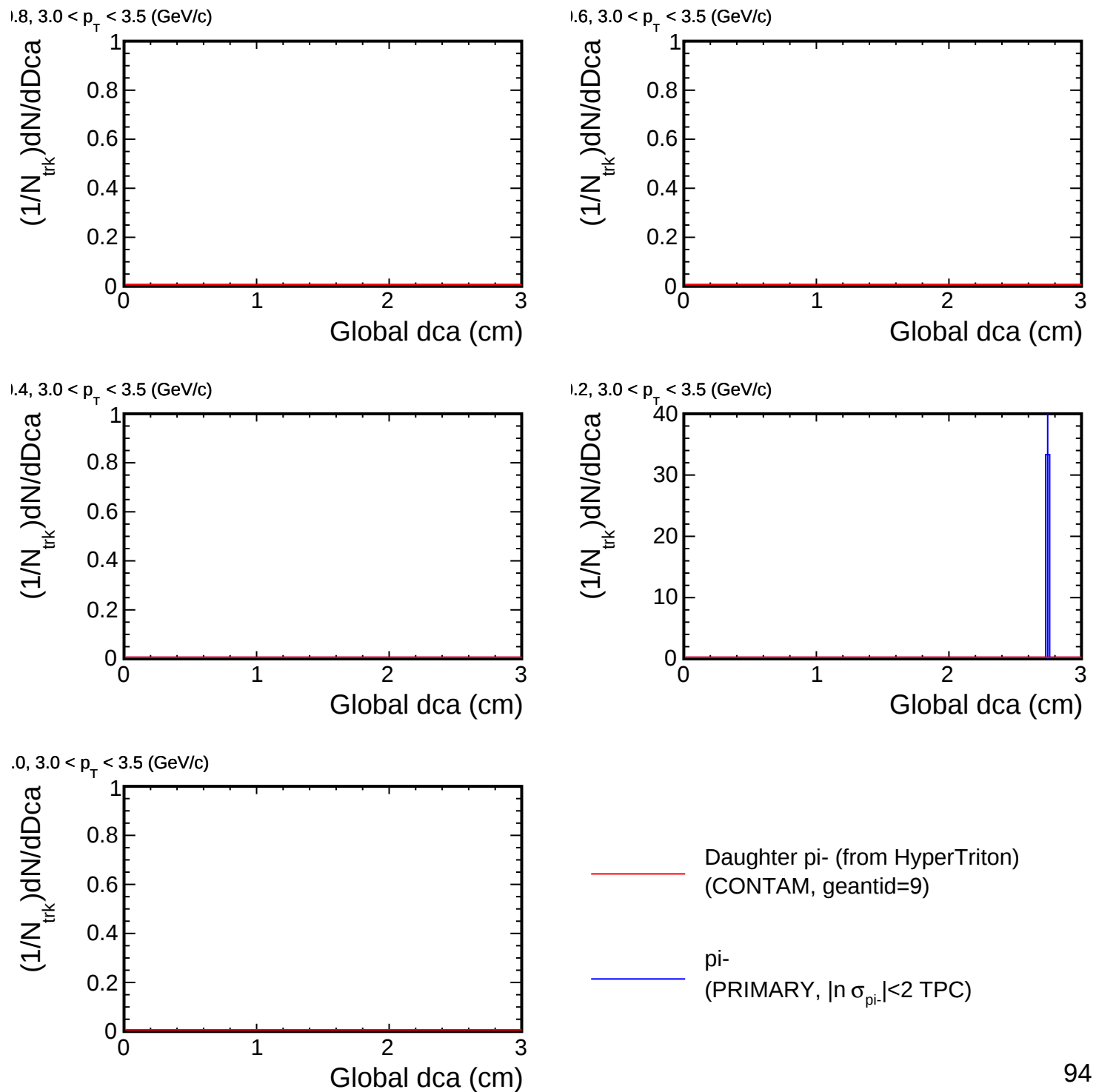
0, $2.5 < p_T < 3.0$ (GeV/c)



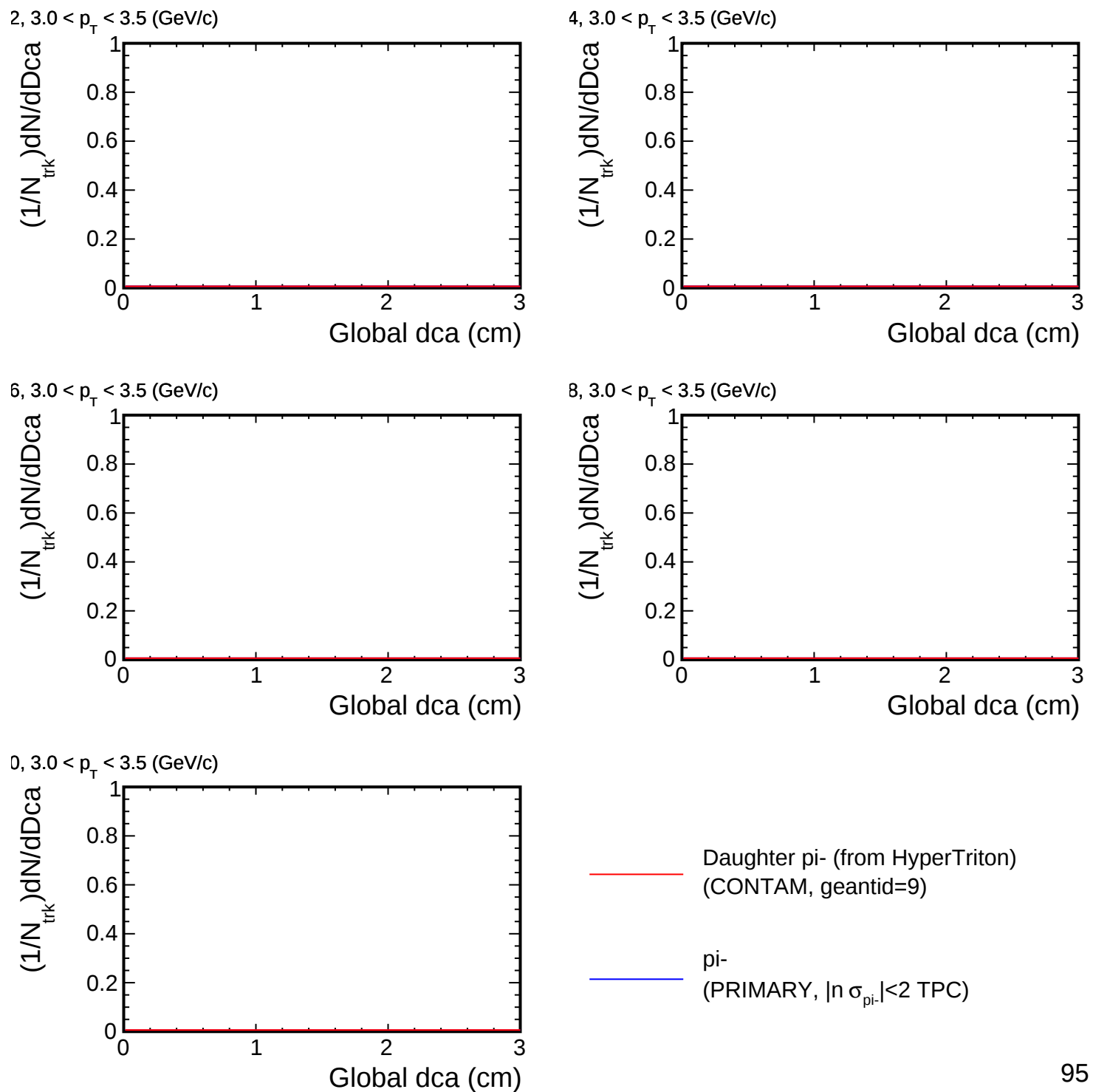
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

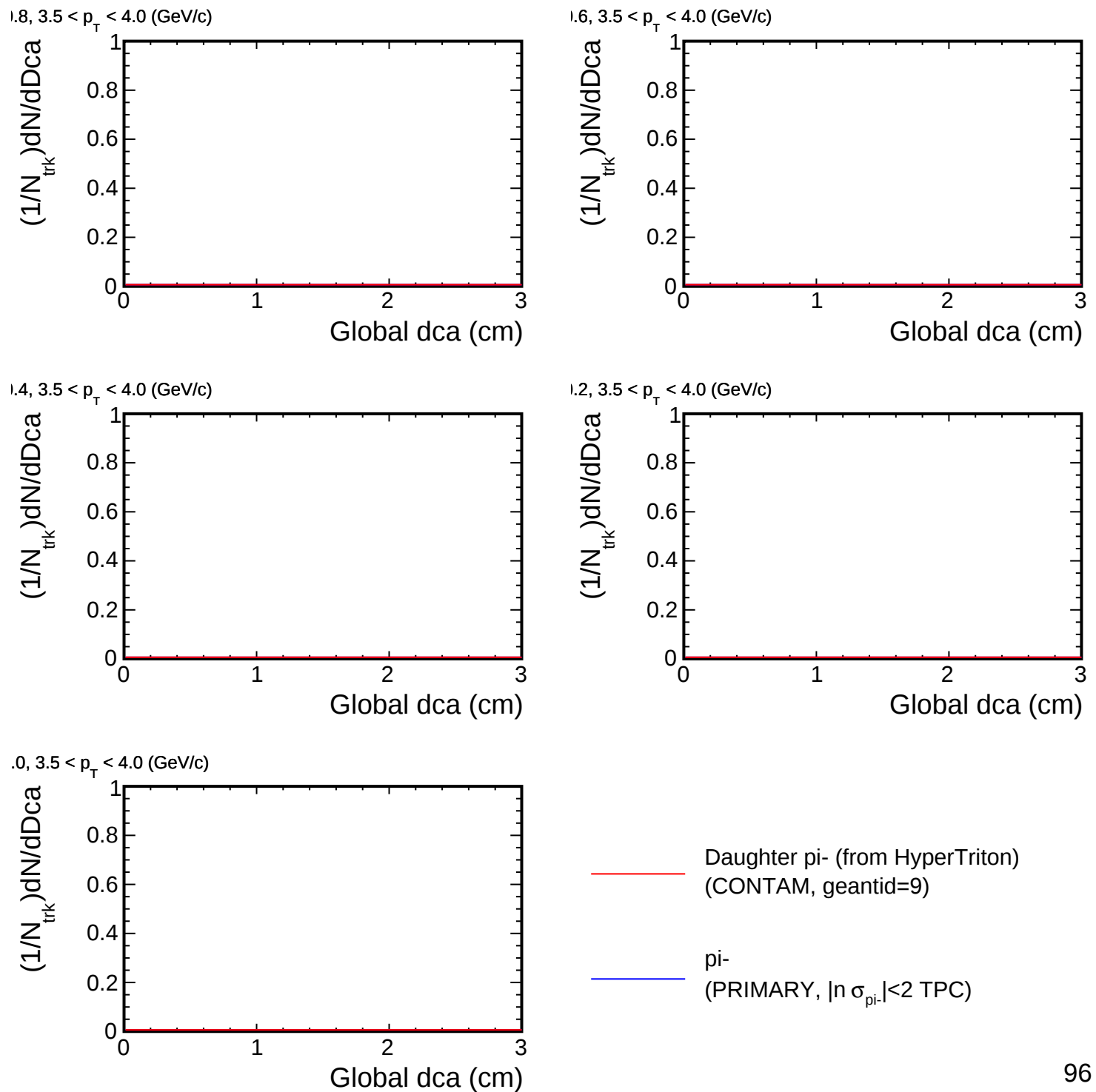
Dca distribution for (p_T , η) slices



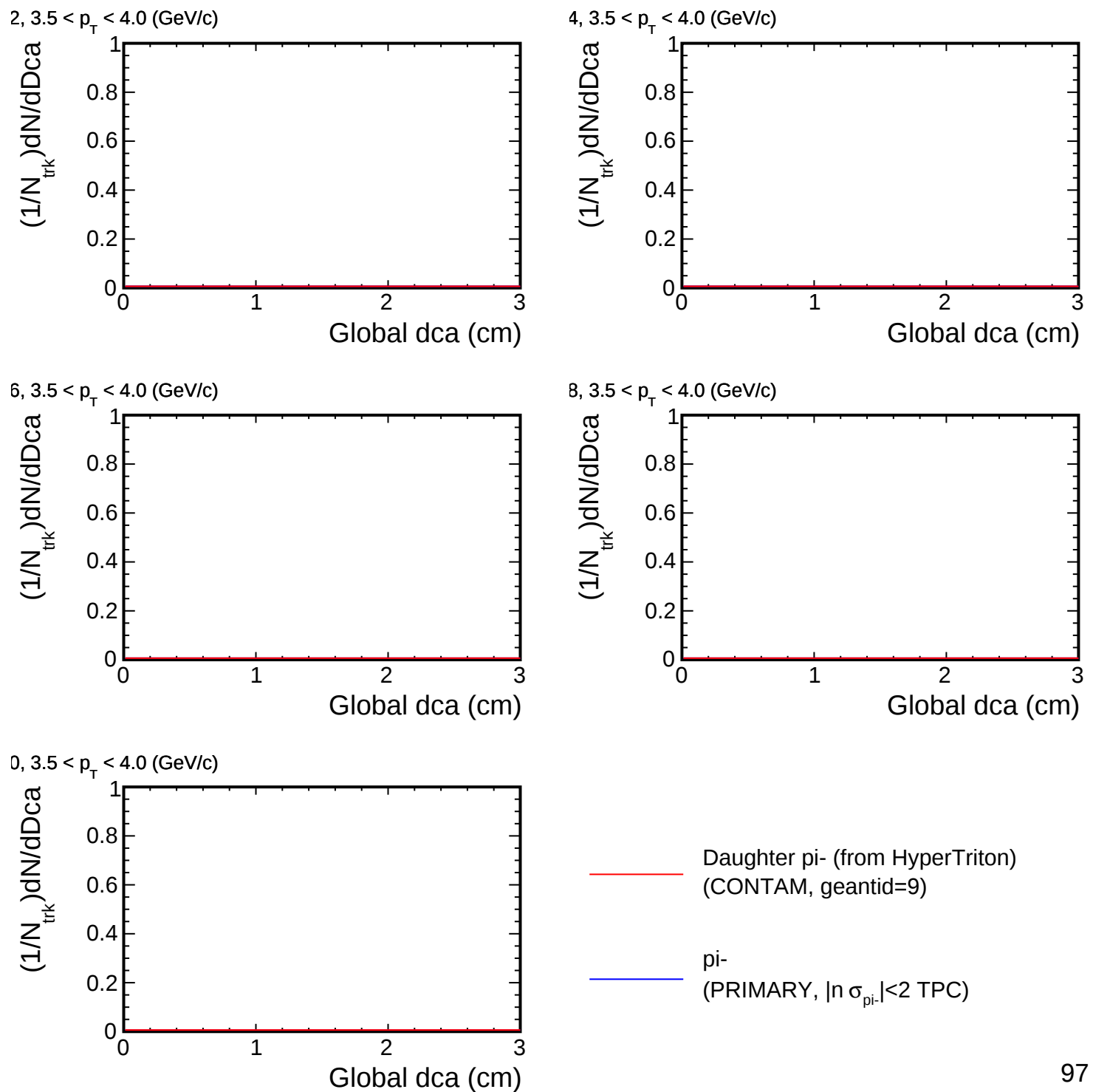
Dca distribution for (p_T , η) slices



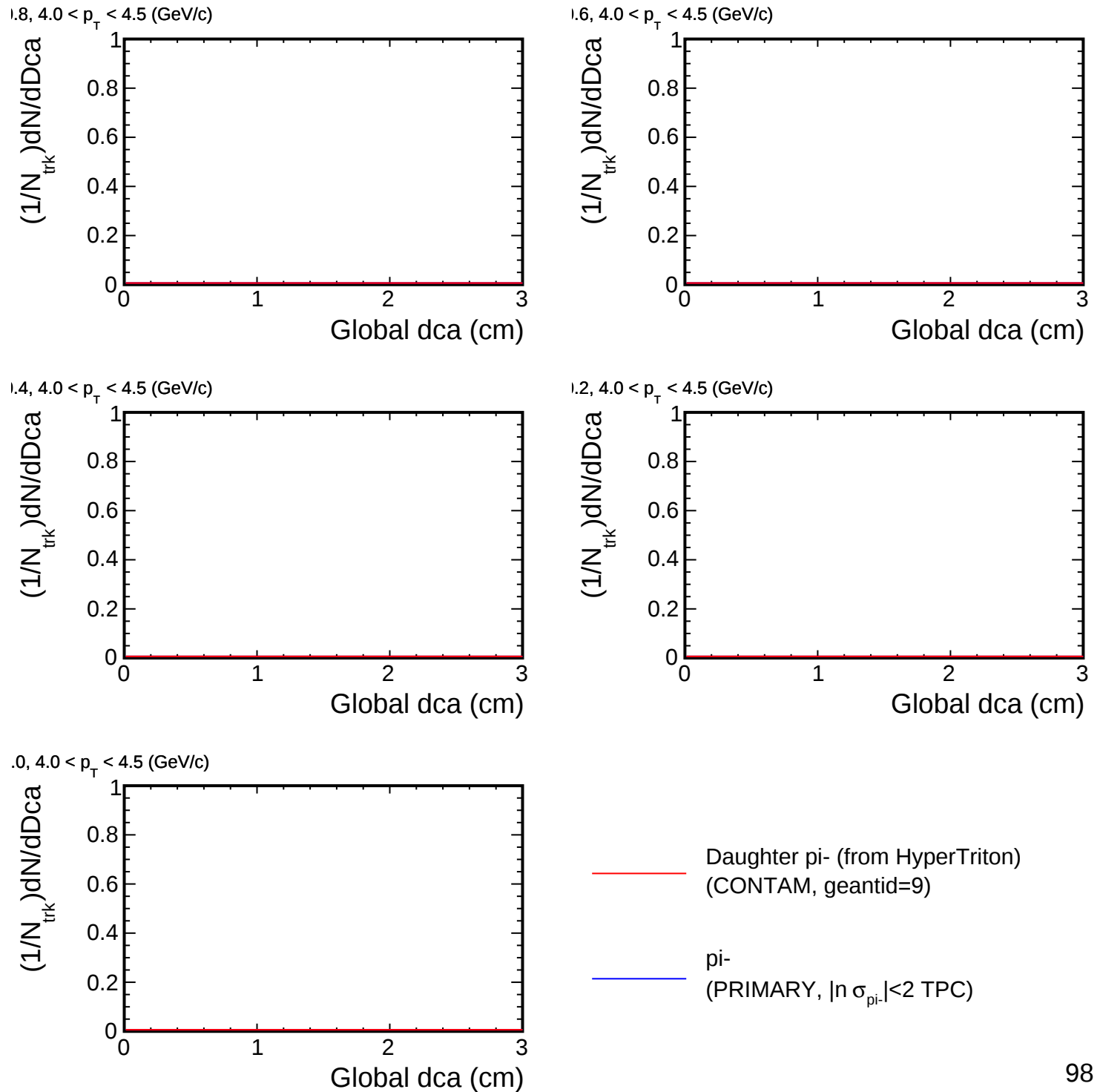
Dca distribution for (p_T , η) slices



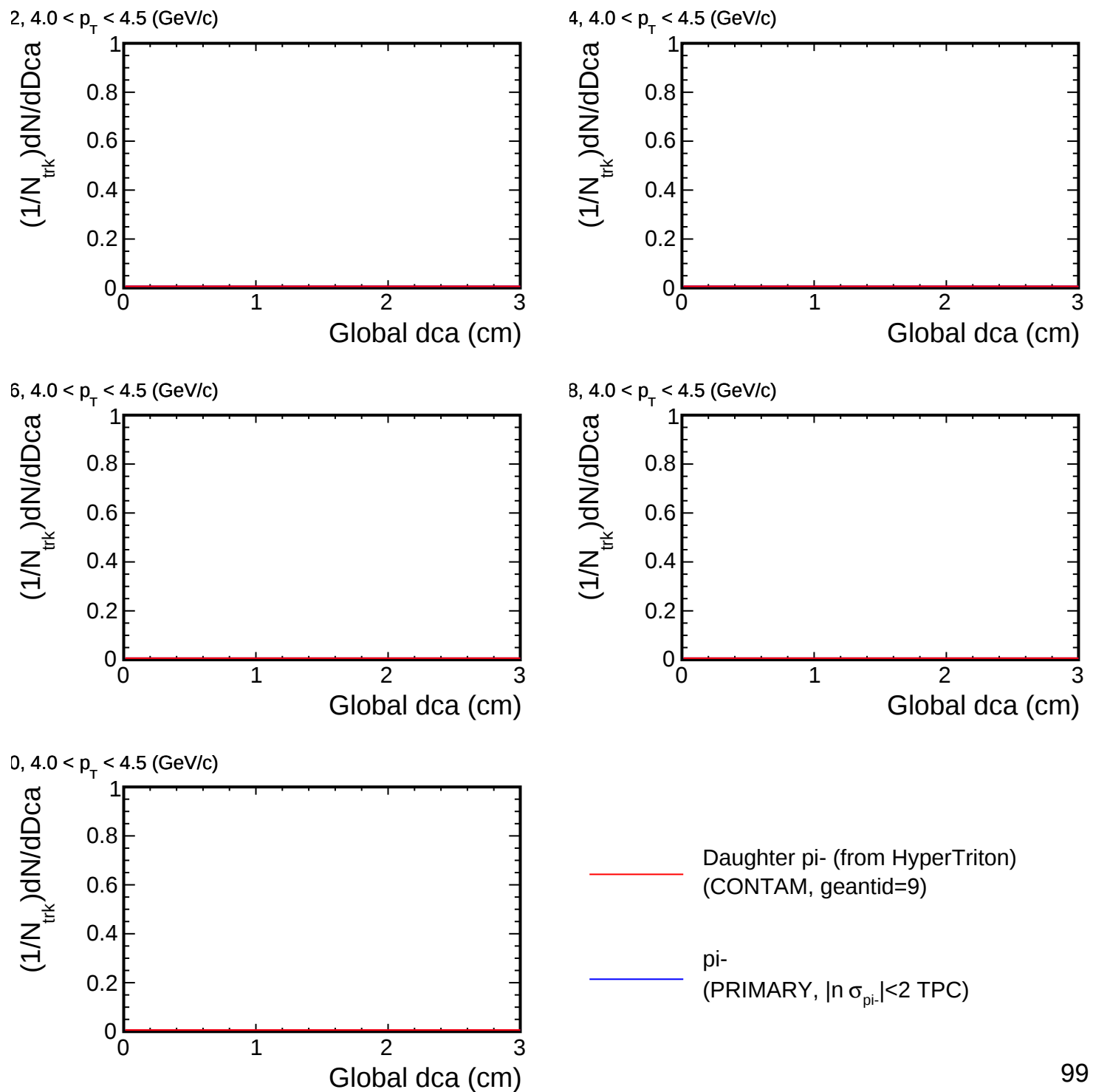
Dca distribution for (p_T , η) slices



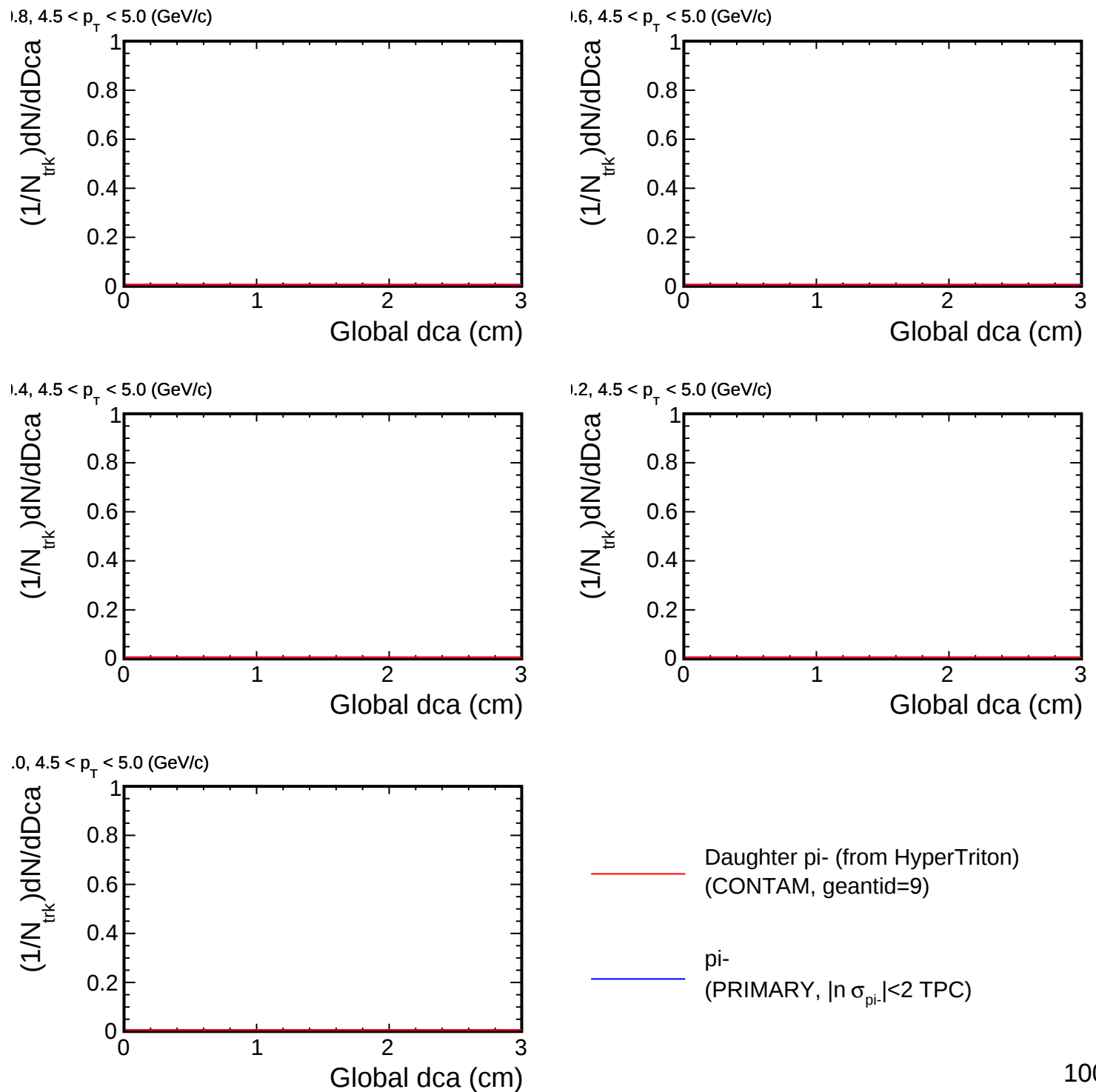
Dca distribution for (p_T , η) slices



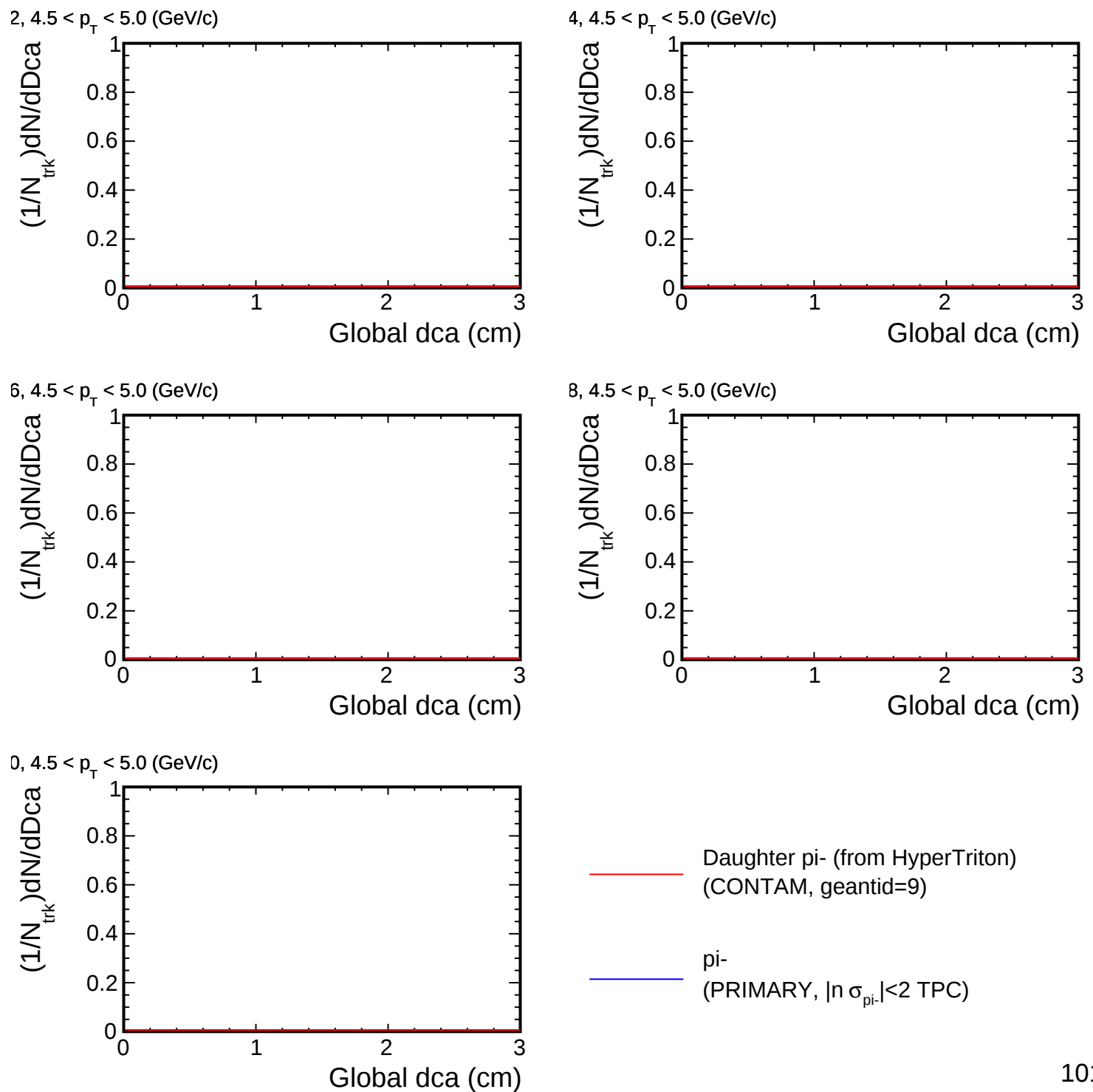
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

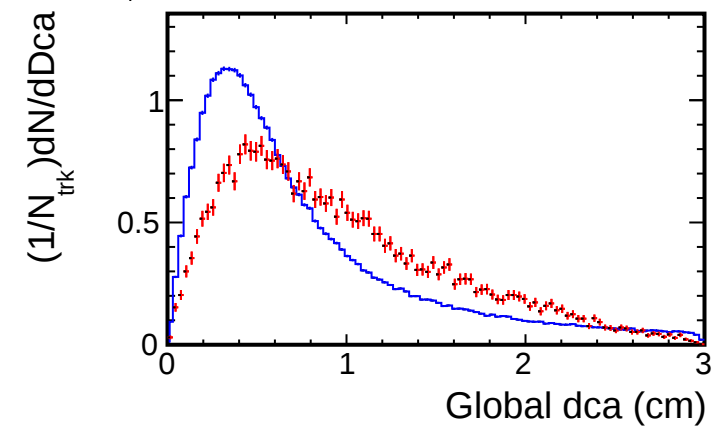


Dca distribution for (p_T , η) slices

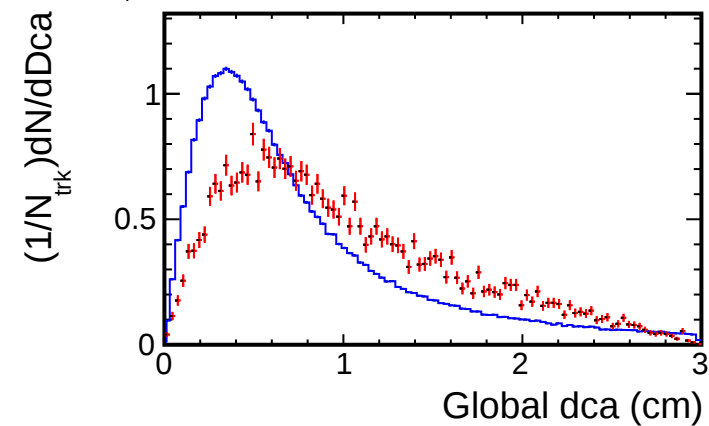


Dca distribution for (p_T , η) slices

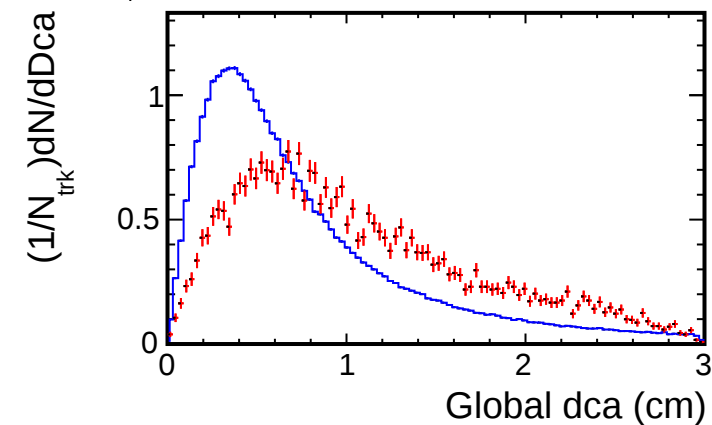
1.8, $0.1 < p_T < 0.5$ (GeV/c)



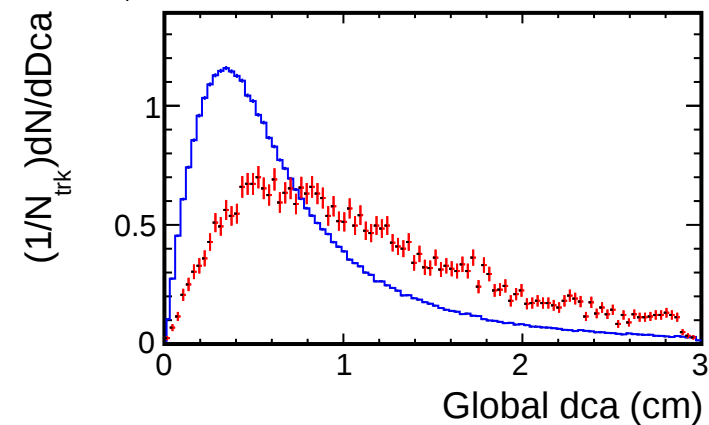
1.6, $0.1 < p_T < 0.5$ (GeV/c)



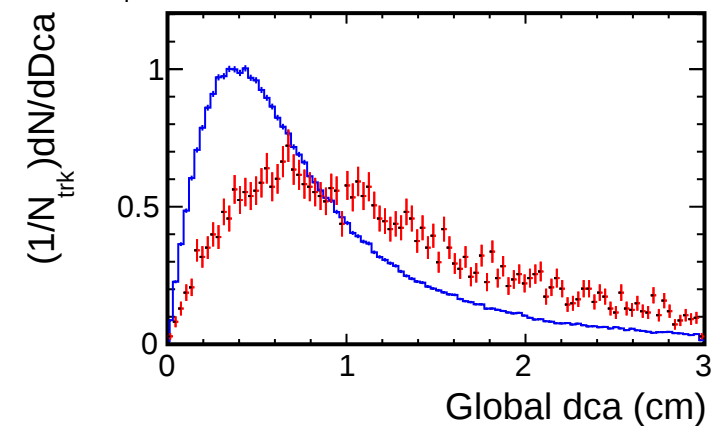
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



1.0, $0.1 < p_T < 0.5$ (GeV/c)

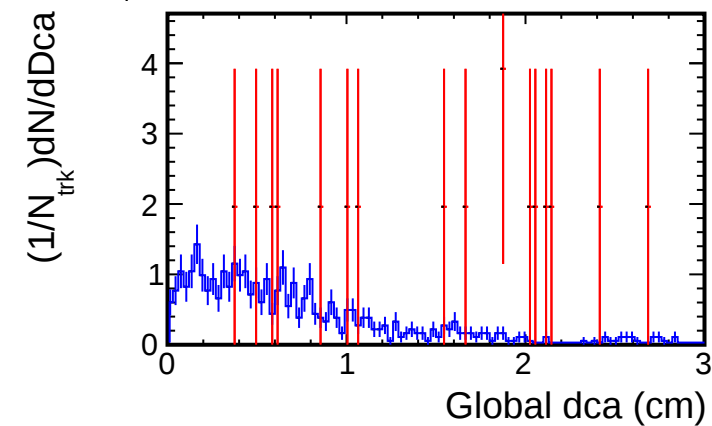


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

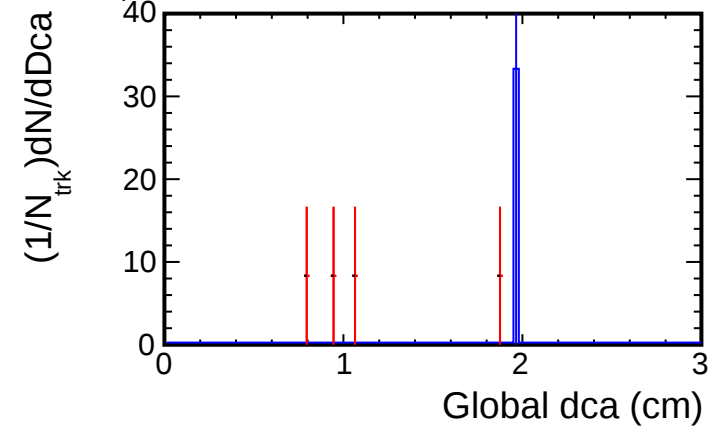
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

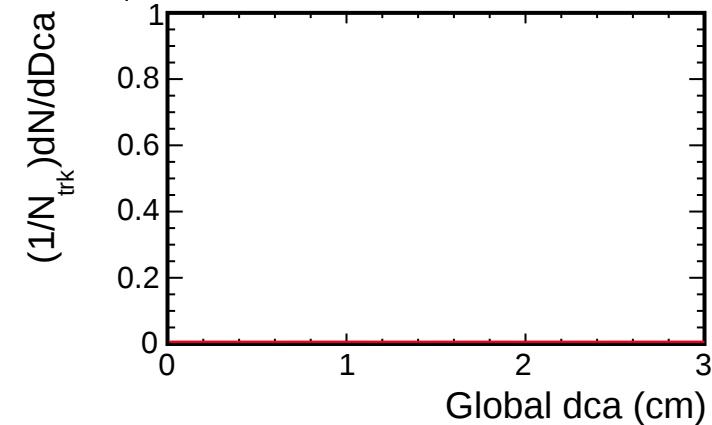
2, $0.1 < p_T < 0.5$ (GeV/c)



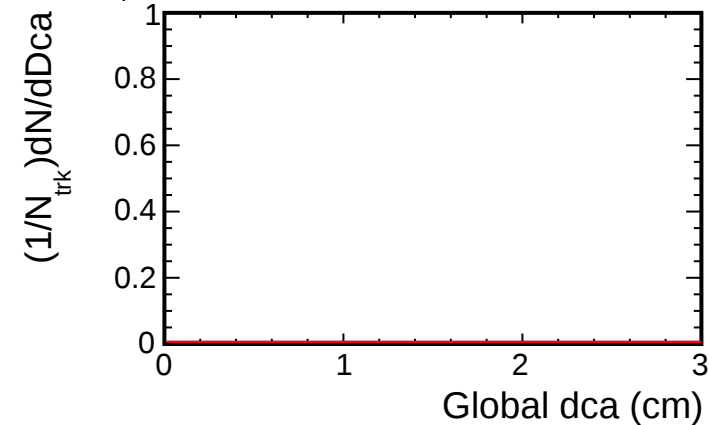
4, $0.1 < p_T < 0.5$ (GeV/c)



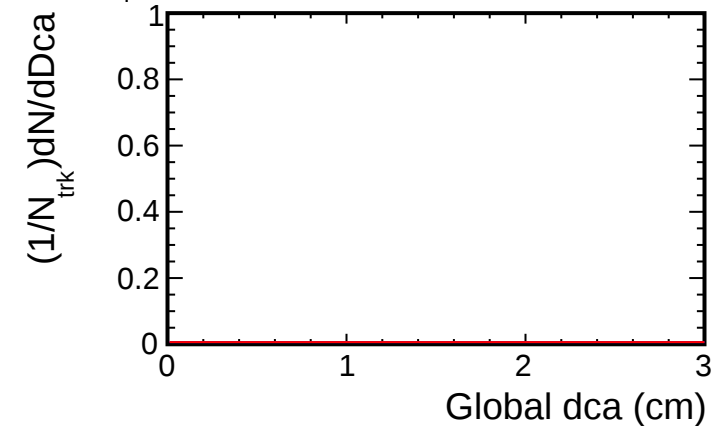
6, $0.1 < p_T < 0.5$ (GeV/c)



8, $0.1 < p_T < 0.5$ (GeV/c)



0, $0.1 < p_T < 0.5$ (GeV/c)

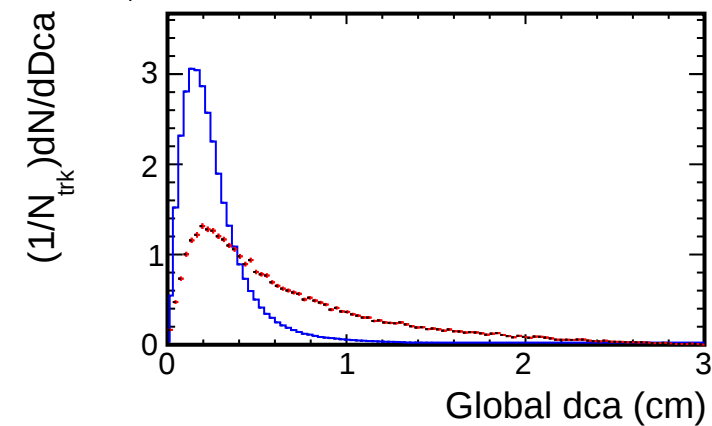


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

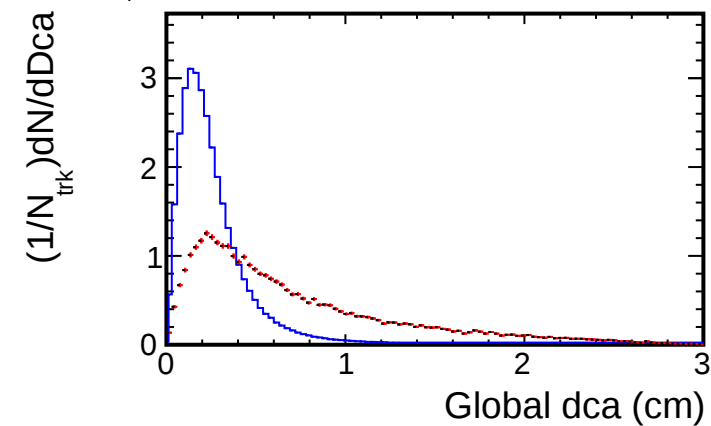
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

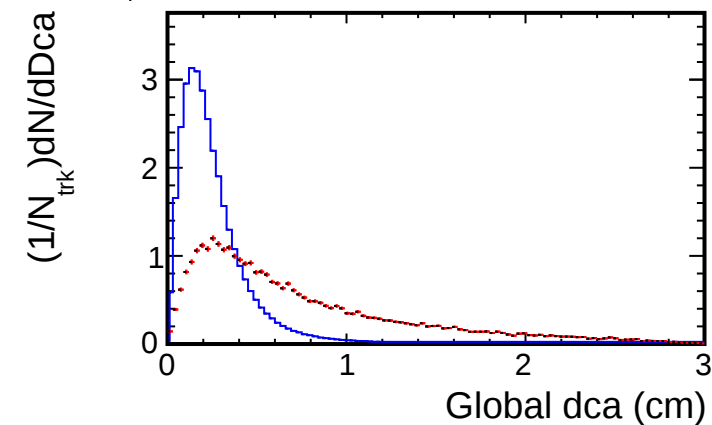
1.8, $0.5 < p_T < 1.0$ (GeV/c)



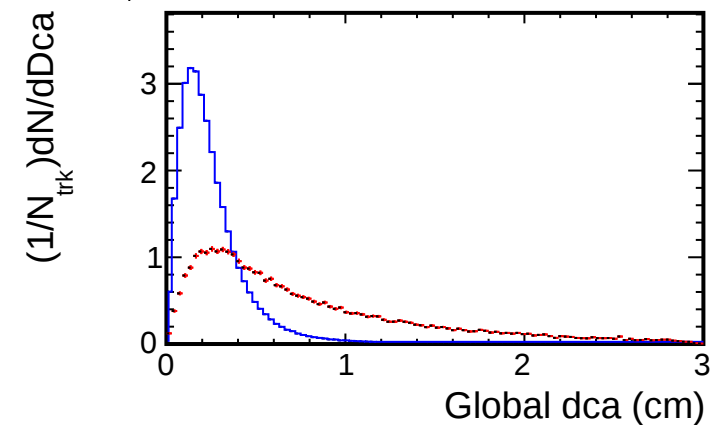
1.6, $0.5 < p_T < 1.0$ (GeV/c)



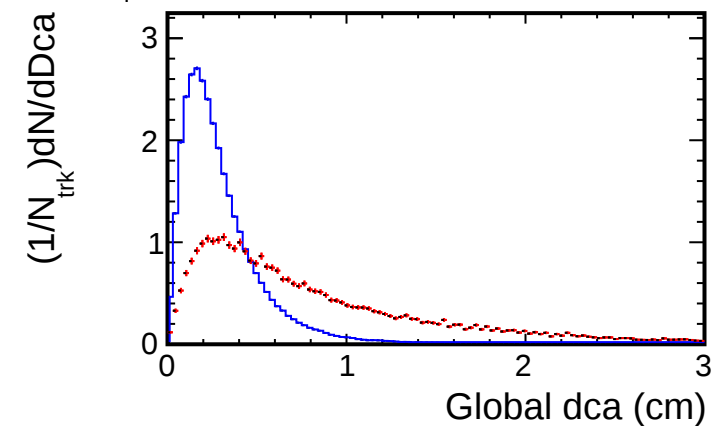
1.4, $0.5 < p_T < 1.0$ (GeV/c)



1.2, $0.5 < p_T < 1.0$ (GeV/c)



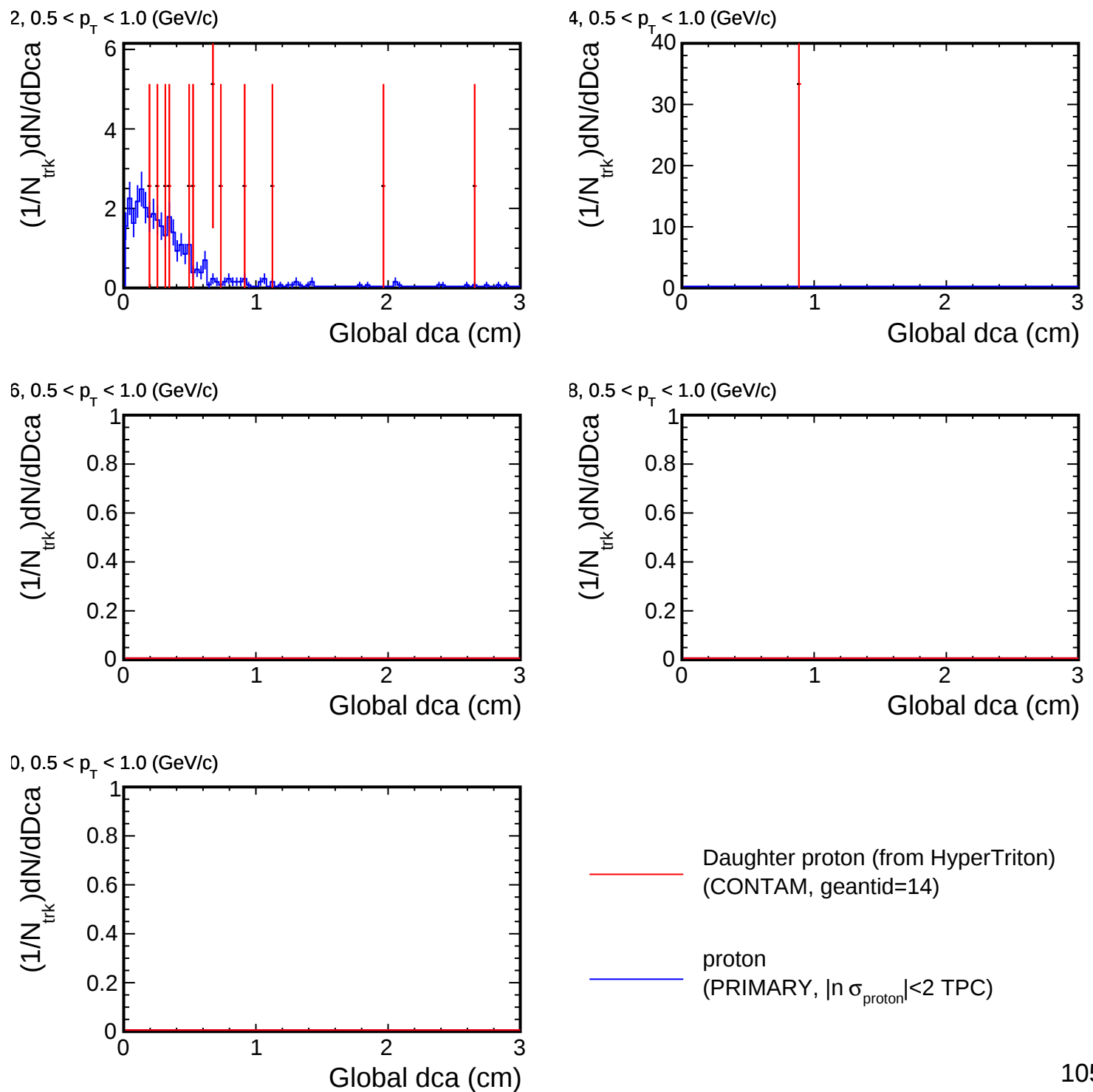
1.0, $0.5 < p_T < 1.0$ (GeV/c)



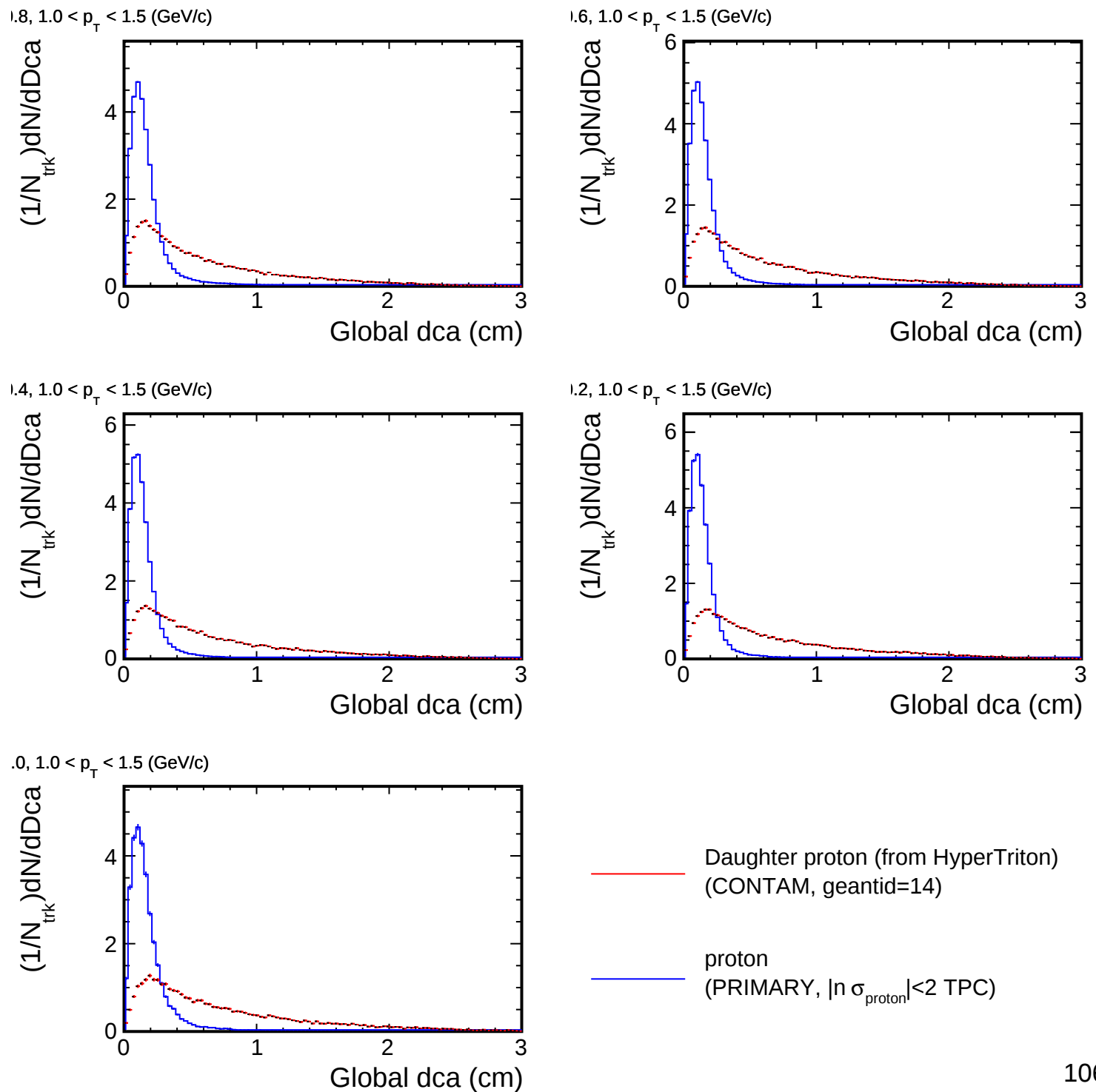
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

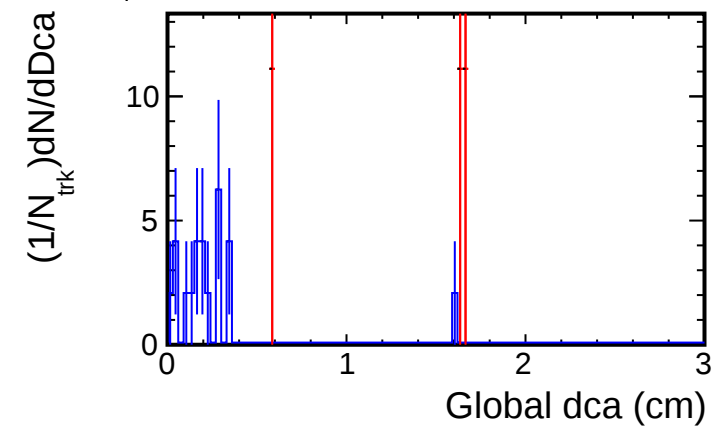


Dca distribution for (p_T , η) slices

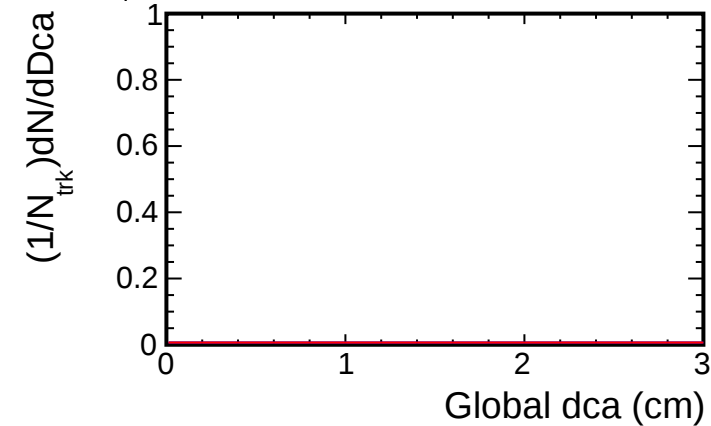


Dca distribution for (p_T , η) slices

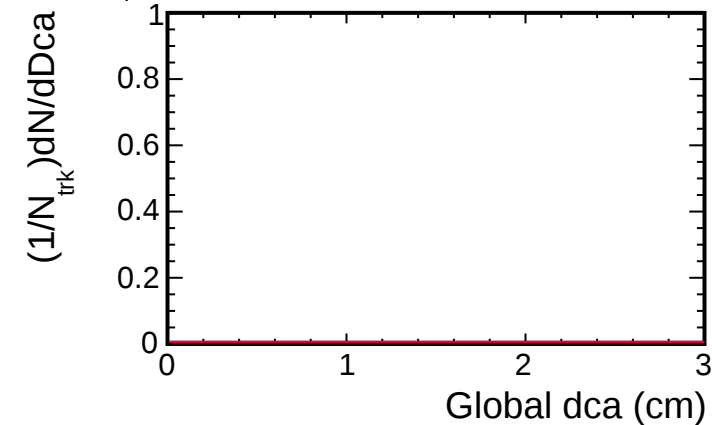
2, $1.0 < p_T < 1.5$ (GeV/c)



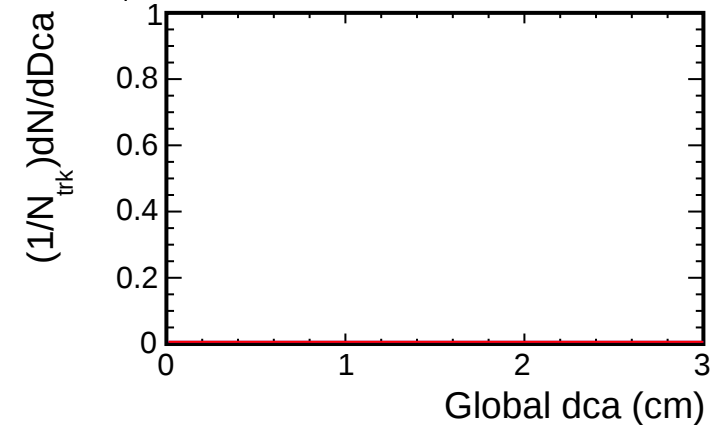
4, $1.0 < p_T < 1.5$ (GeV/c)



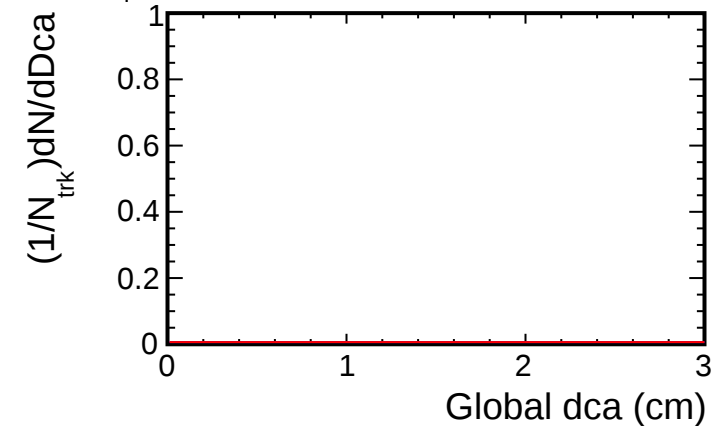
6, $1.0 < p_T < 1.5$ (GeV/c)



8, $1.0 < p_T < 1.5$ (GeV/c)



0, $1.0 < p_T < 1.5$ (GeV/c)

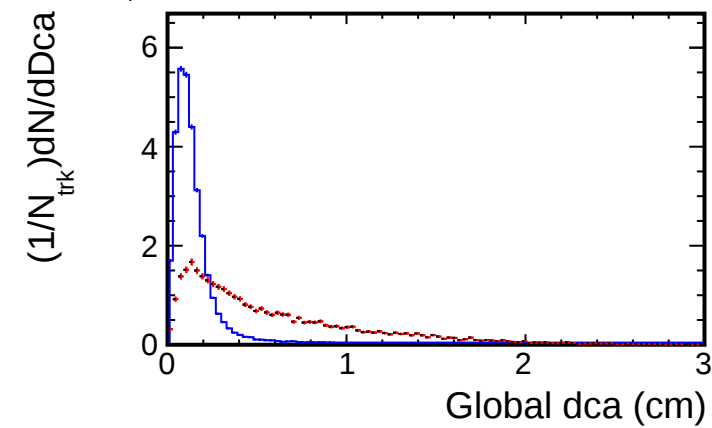


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

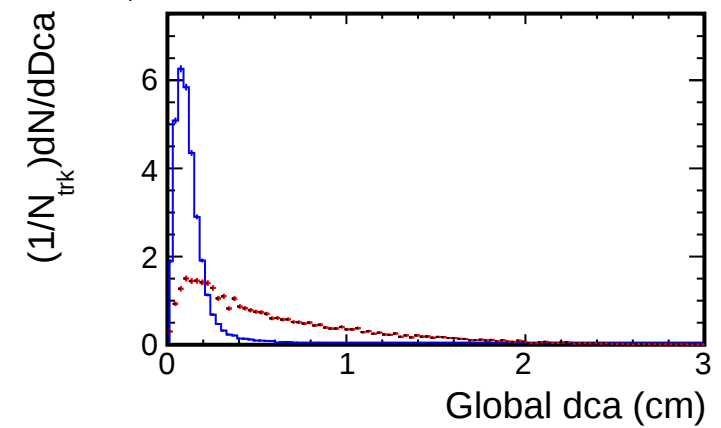
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

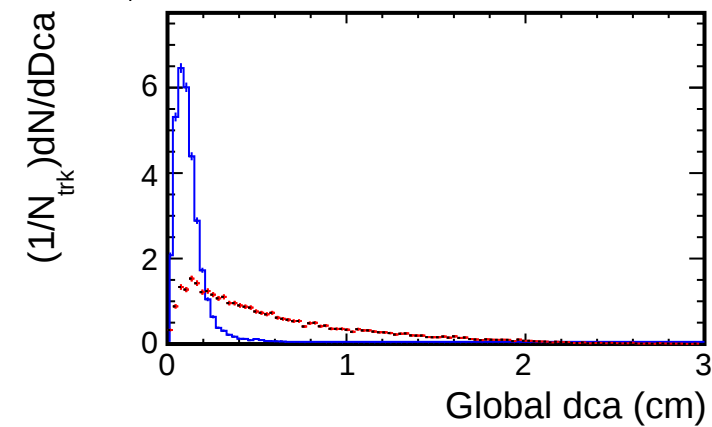
$1.8, 1.5 < p_T < 2.0$ (GeV/c)



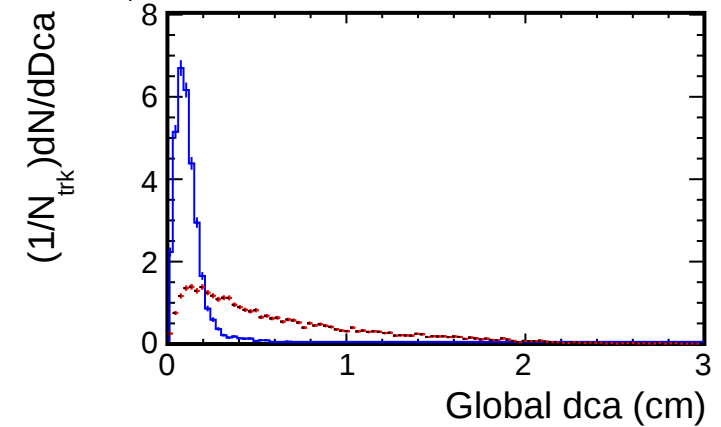
$1.6, 1.5 < p_T < 2.0$ (GeV/c)



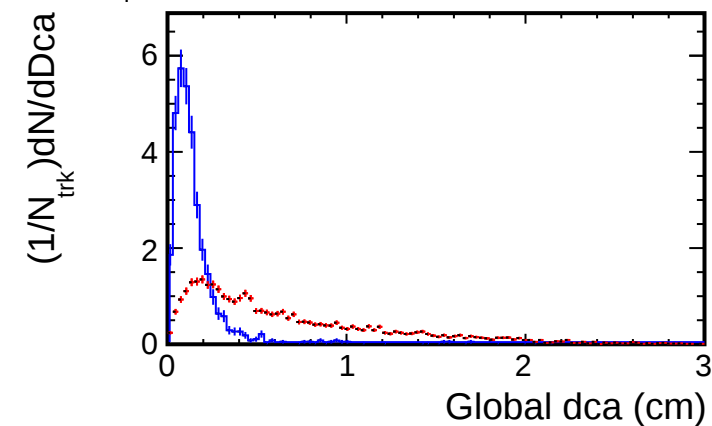
$1.4, 1.5 < p_T < 2.0$ (GeV/c)



$1.2, 1.5 < p_T < 2.0$ (GeV/c)



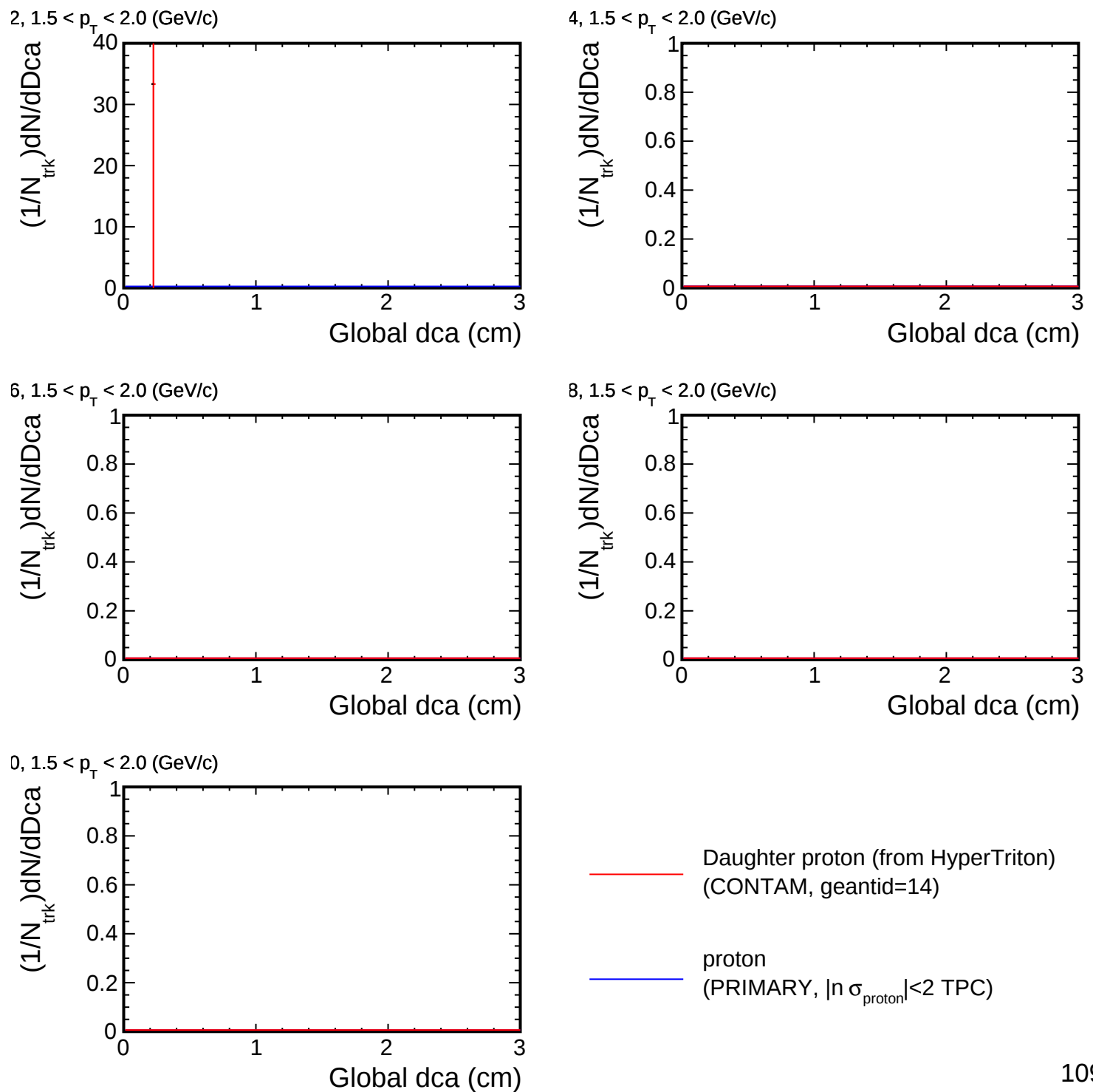
$1.0, 1.5 < p_T < 2.0$ (GeV/c)



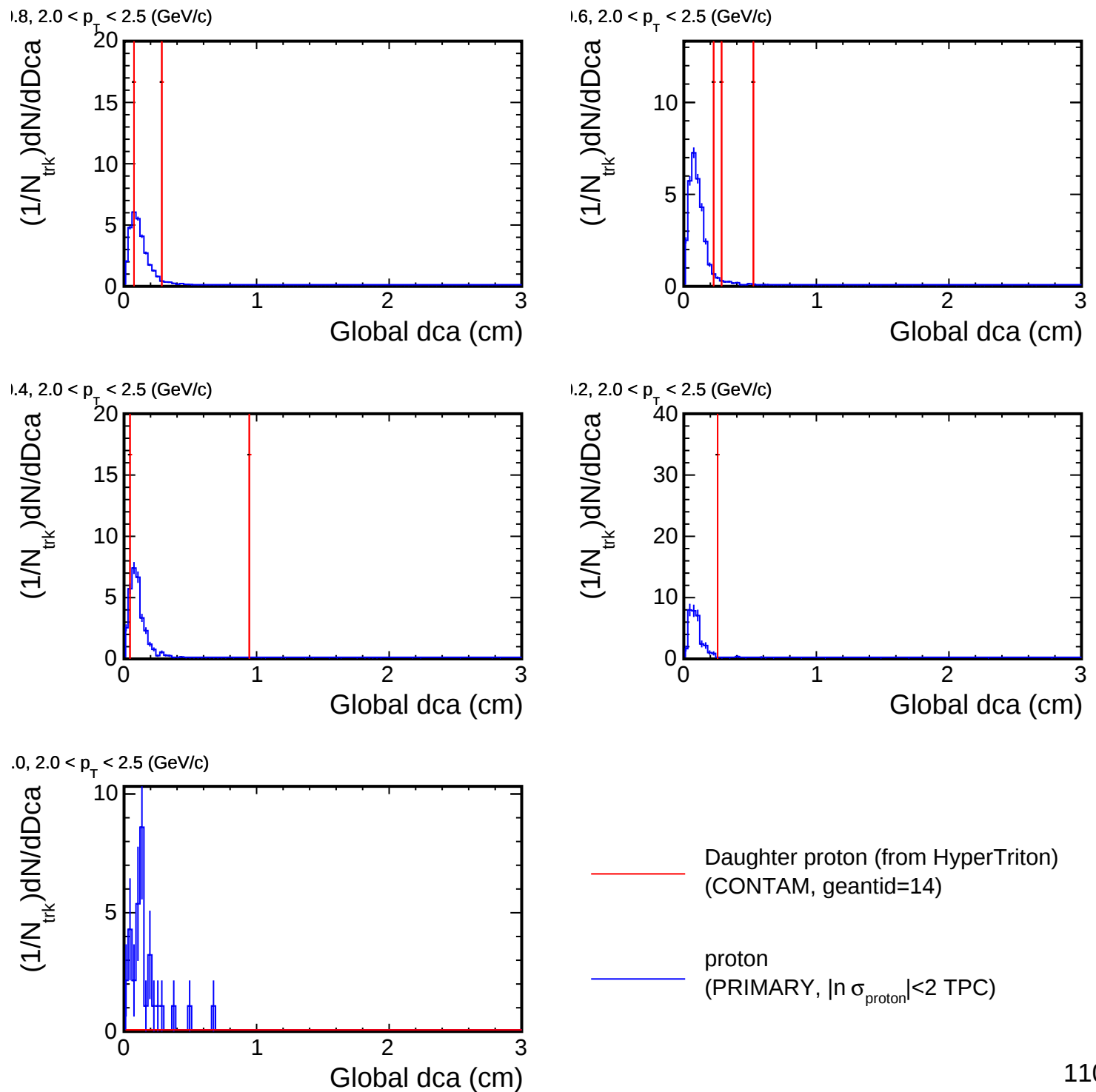
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

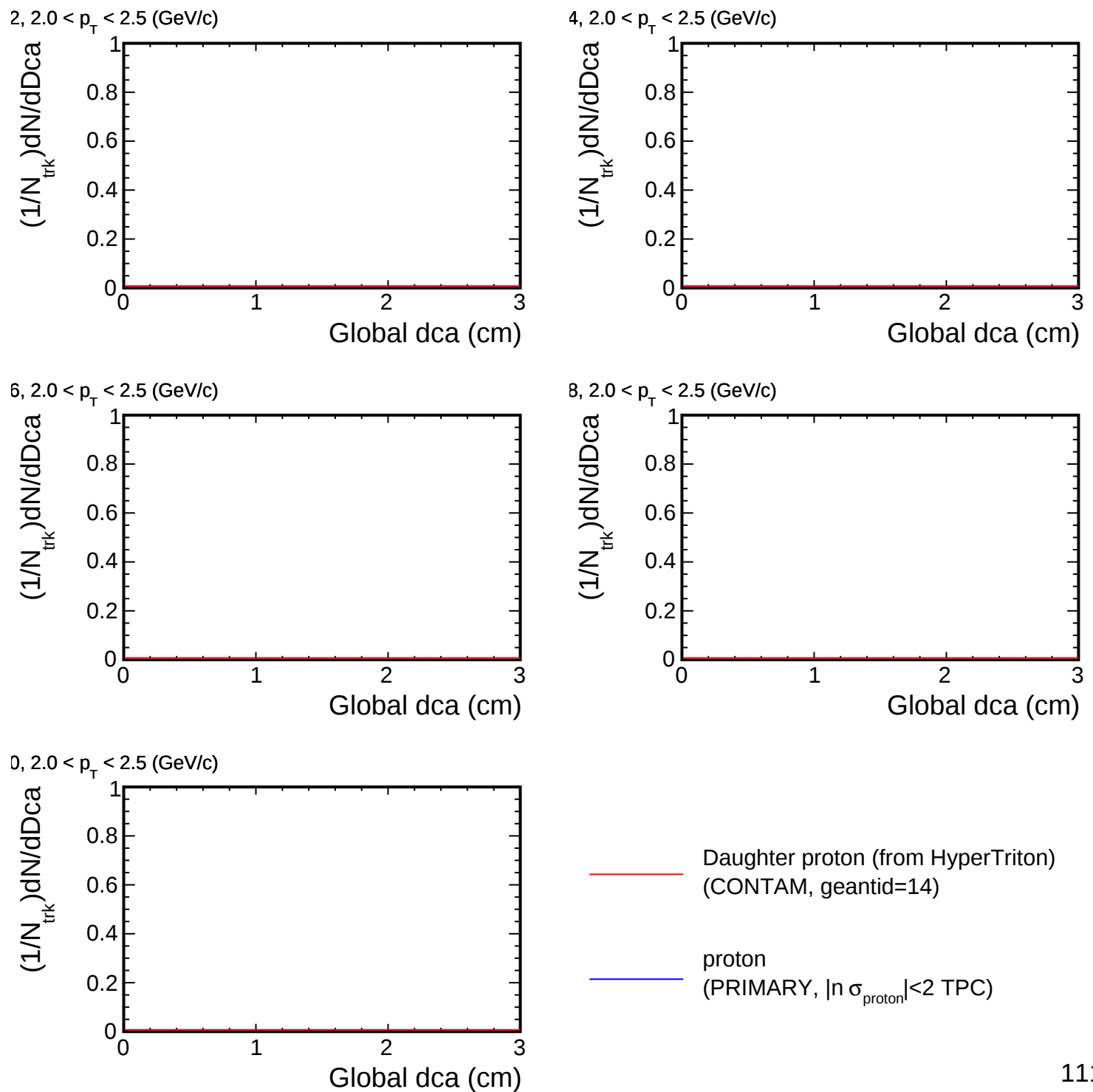
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

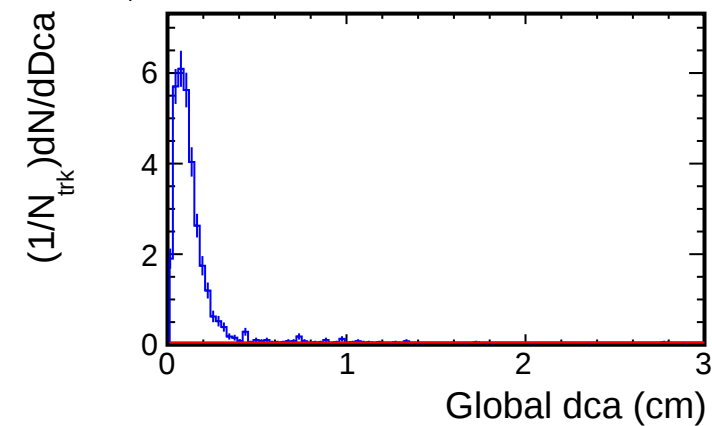


Dca distribution for (p_T , η) slices

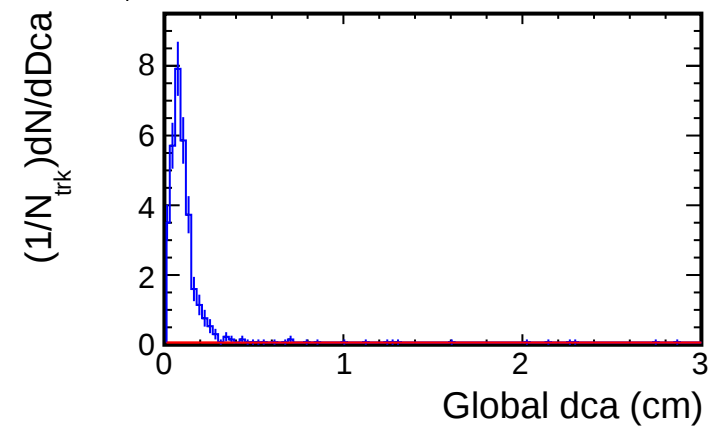


Dca distribution for (p_T , η) slices

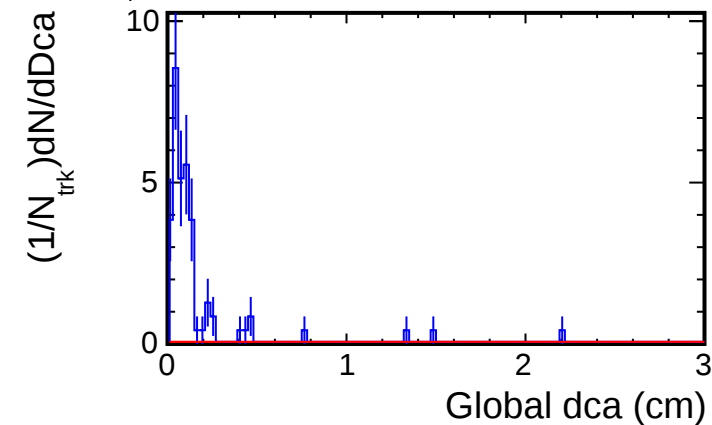
1.8, $2.5 < p_T < 3.0$ (GeV/c)



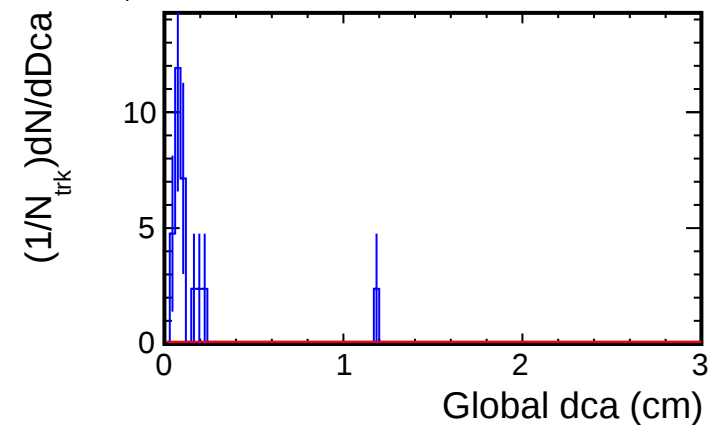
1.6, $2.5 < p_T < 3.0$ (GeV/c)



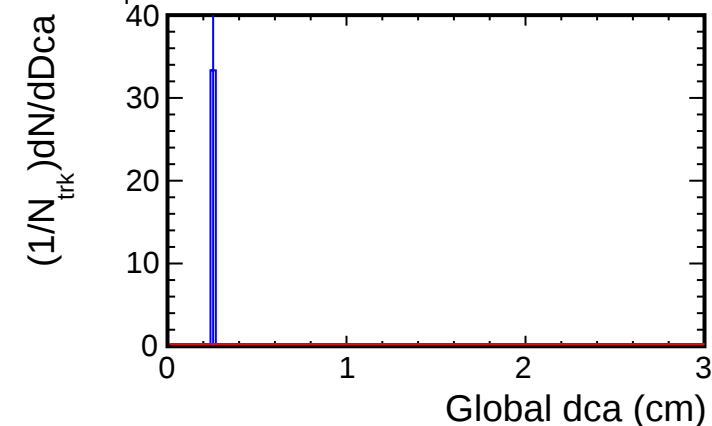
1.4, $2.5 < p_T < 3.0$ (GeV/c)



1.2, $2.5 < p_T < 3.0$ (GeV/c)



1.0, $2.5 < p_T < 3.0$ (GeV/c)

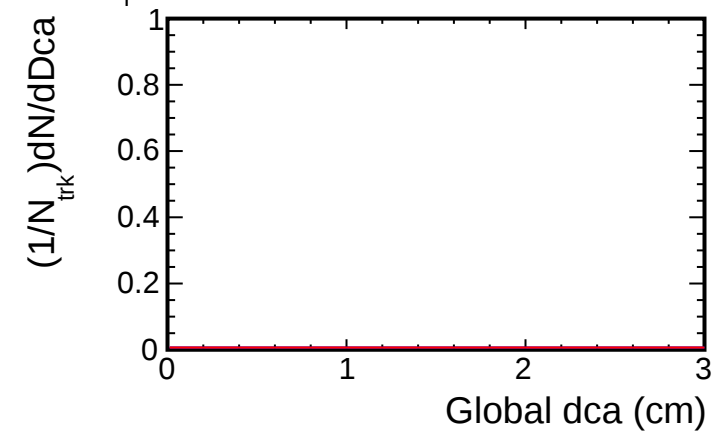


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

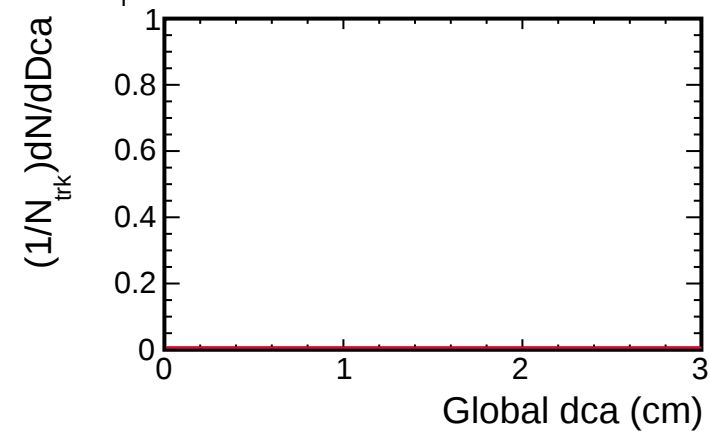
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

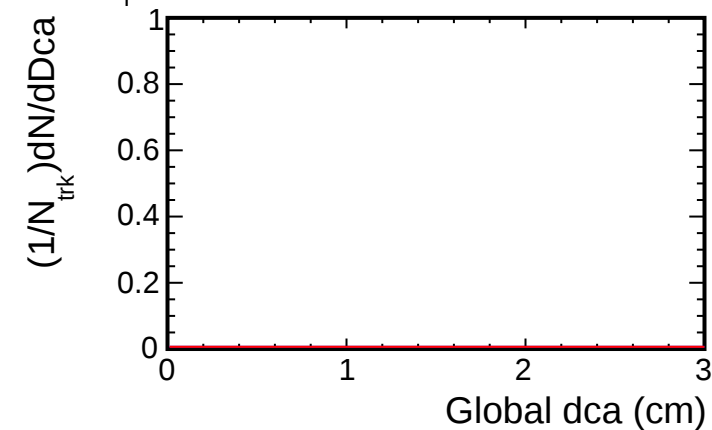
2, $2.5 < p_T < 3.0$ (GeV/c)



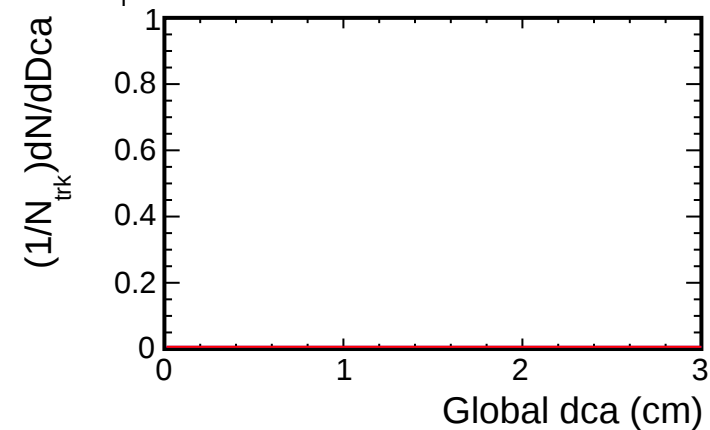
4, $2.5 < p_T < 3.0$ (GeV/c)



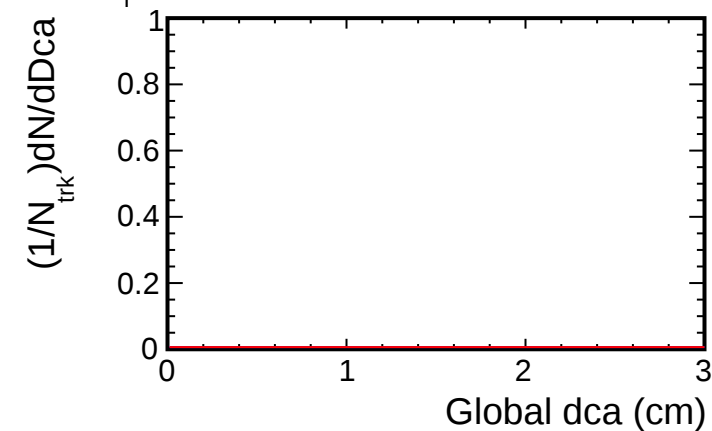
6, $2.5 < p_T < 3.0$ (GeV/c)



8, $2.5 < p_T < 3.0$ (GeV/c)



0, $2.5 < p_T < 3.0$ (GeV/c)

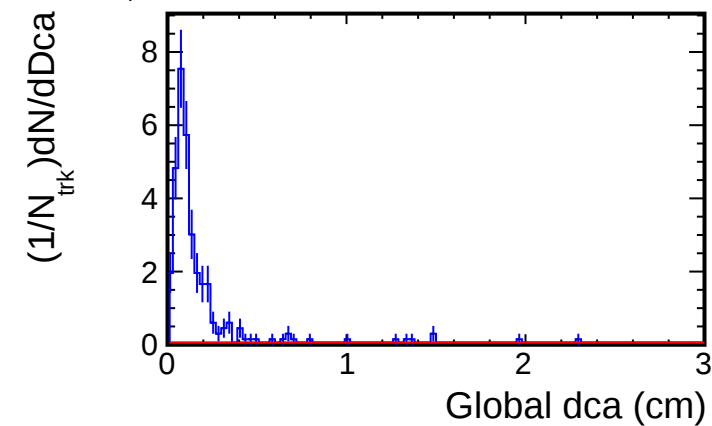


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

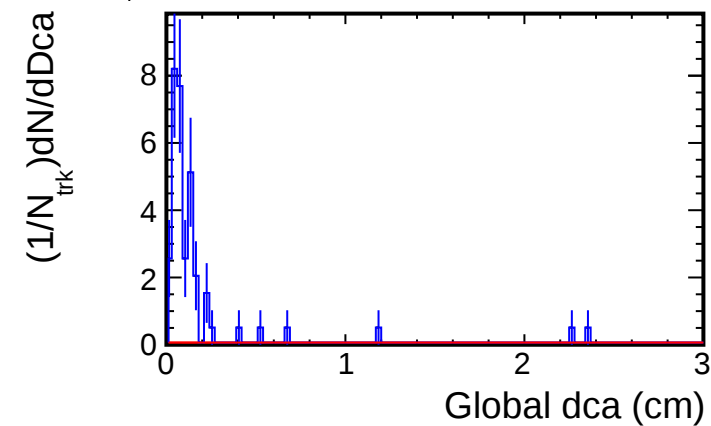
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

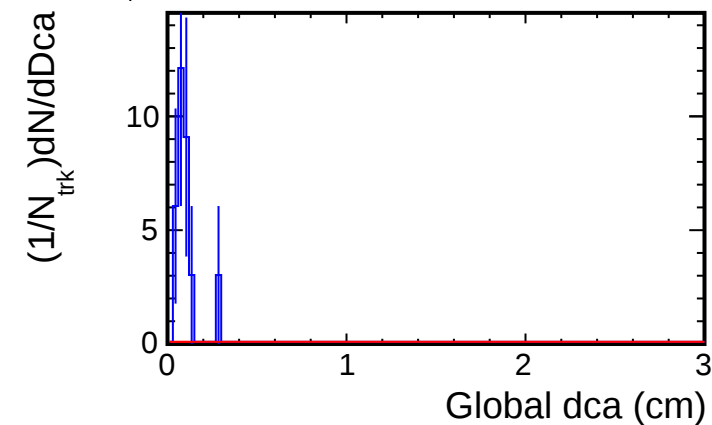
1.8, $3.0 < p_T < 3.5$ (GeV/c)



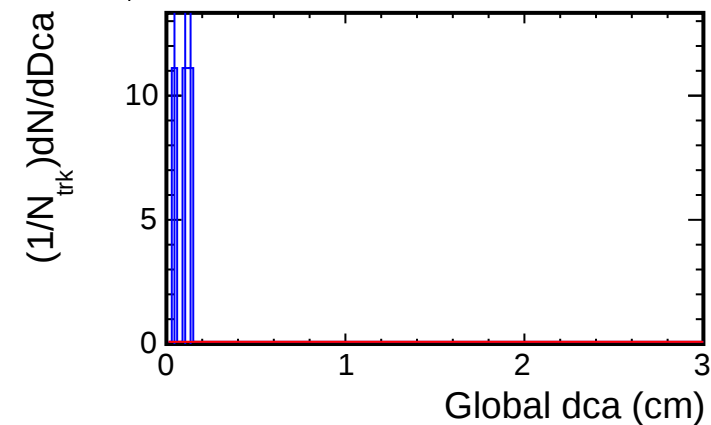
1.6, $3.0 < p_T < 3.5$ (GeV/c)



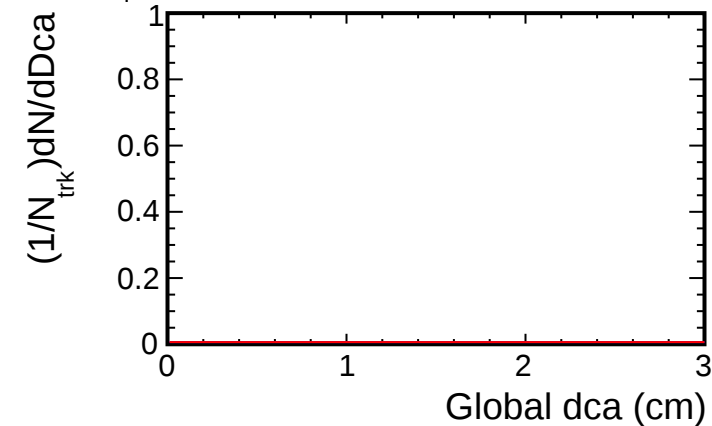
1.4, $3.0 < p_T < 3.5$ (GeV/c)



1.2, $3.0 < p_T < 3.5$ (GeV/c)



1.0, $3.0 < p_T < 3.5$ (GeV/c)

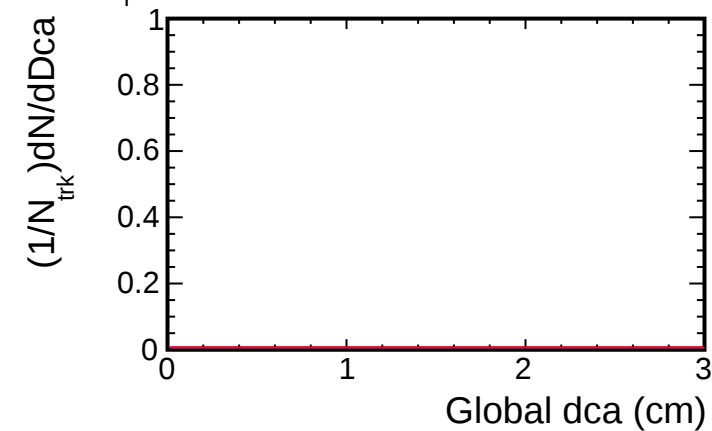


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

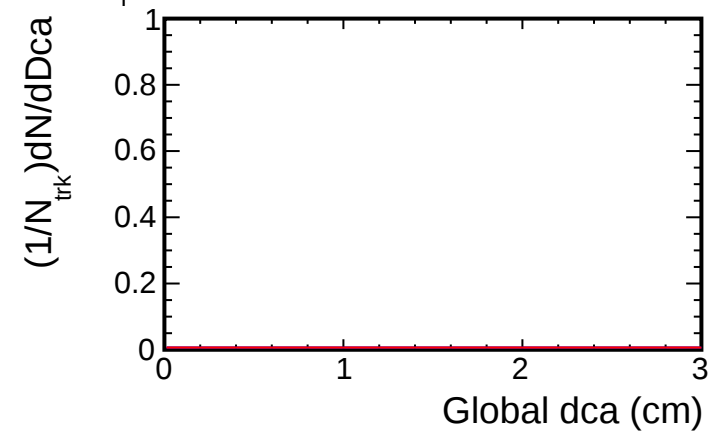
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

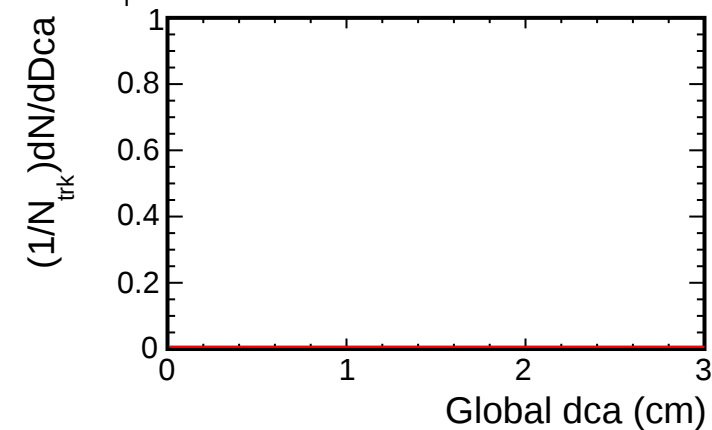
2, $3.0 < p_T < 3.5$ (GeV/c)



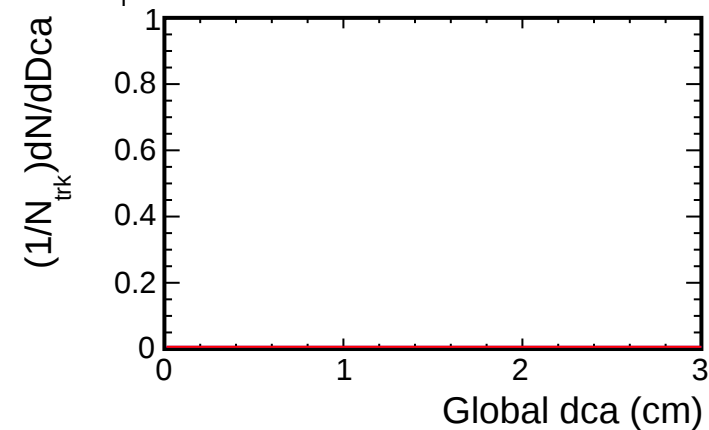
4, $3.0 < p_T < 3.5$ (GeV/c)



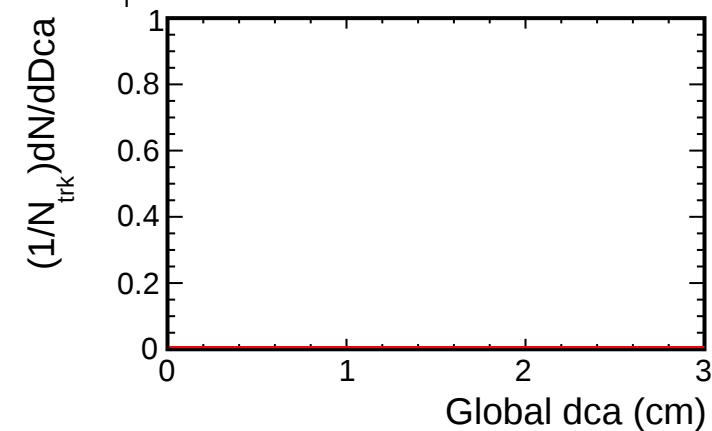
6, $3.0 < p_T < 3.5$ (GeV/c)



8, $3.0 < p_T < 3.5$ (GeV/c)



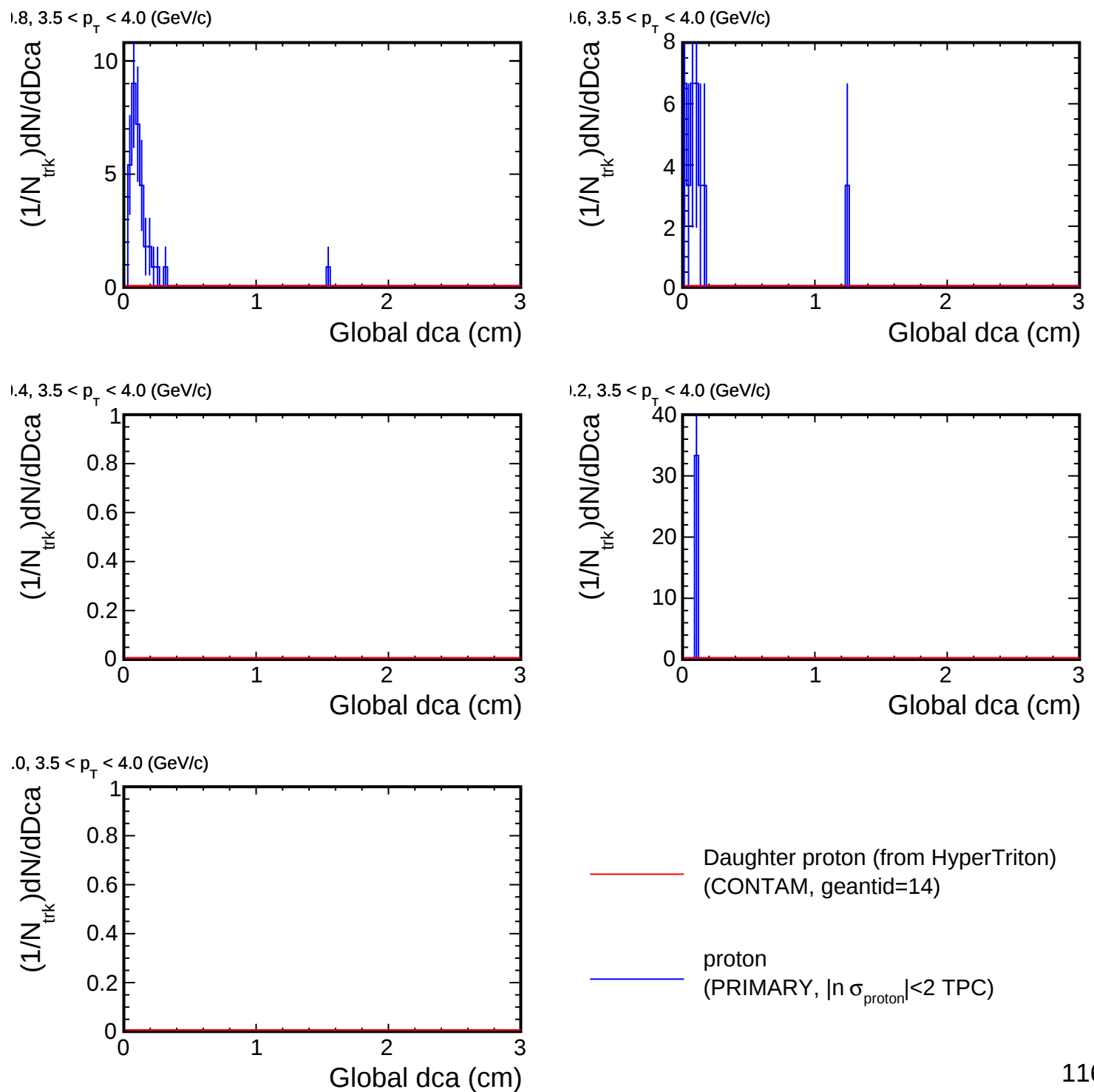
0, $3.0 < p_T < 3.5$ (GeV/c)



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

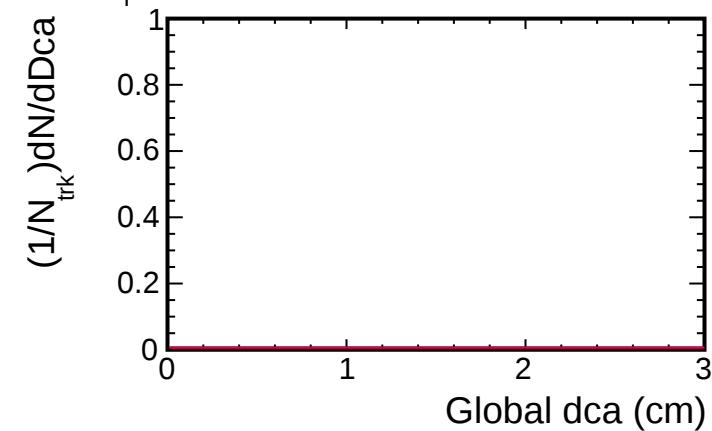
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

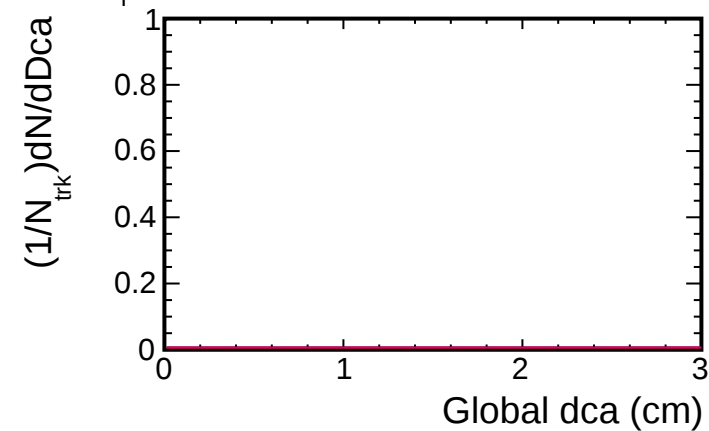


Dca distribution for (p_T , η) slices

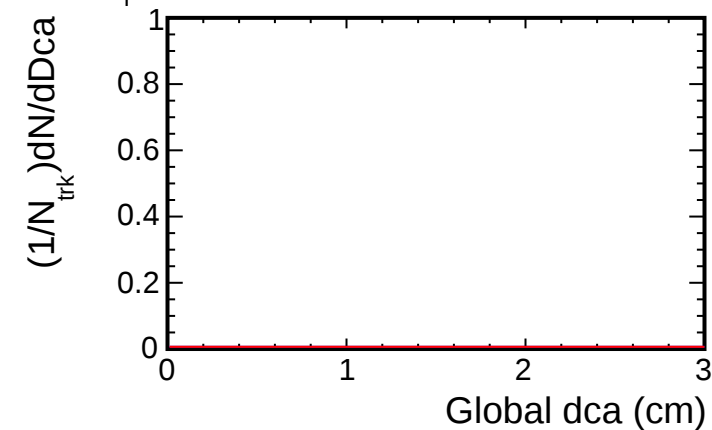
2, $3.5 < p_T < 4.0$ (GeV/c)



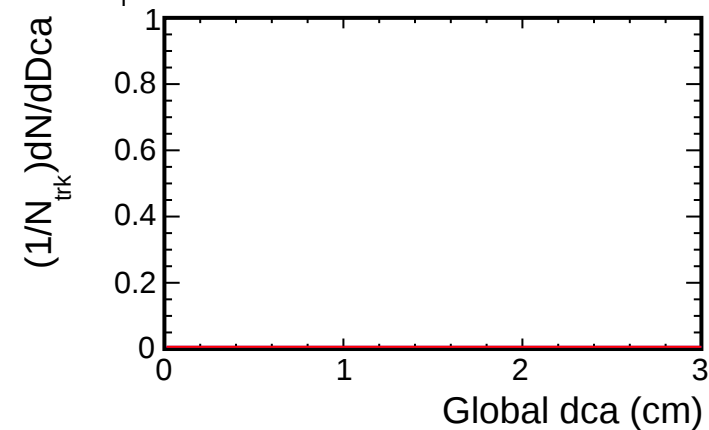
4, $3.5 < p_T < 4.0$ (GeV/c)



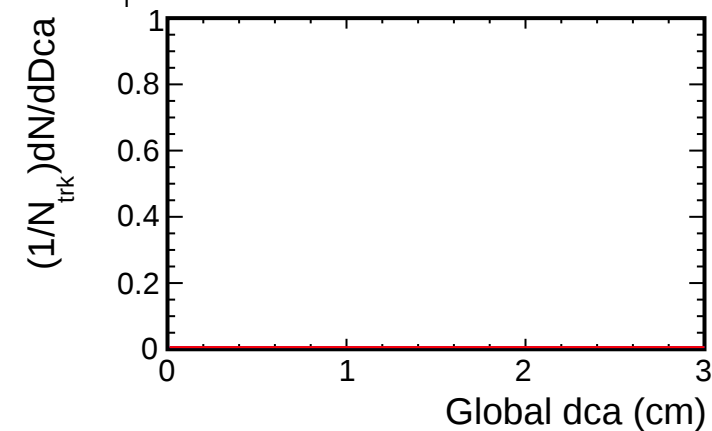
6, $3.5 < p_T < 4.0$ (GeV/c)



8, $3.5 < p_T < 4.0$ (GeV/c)



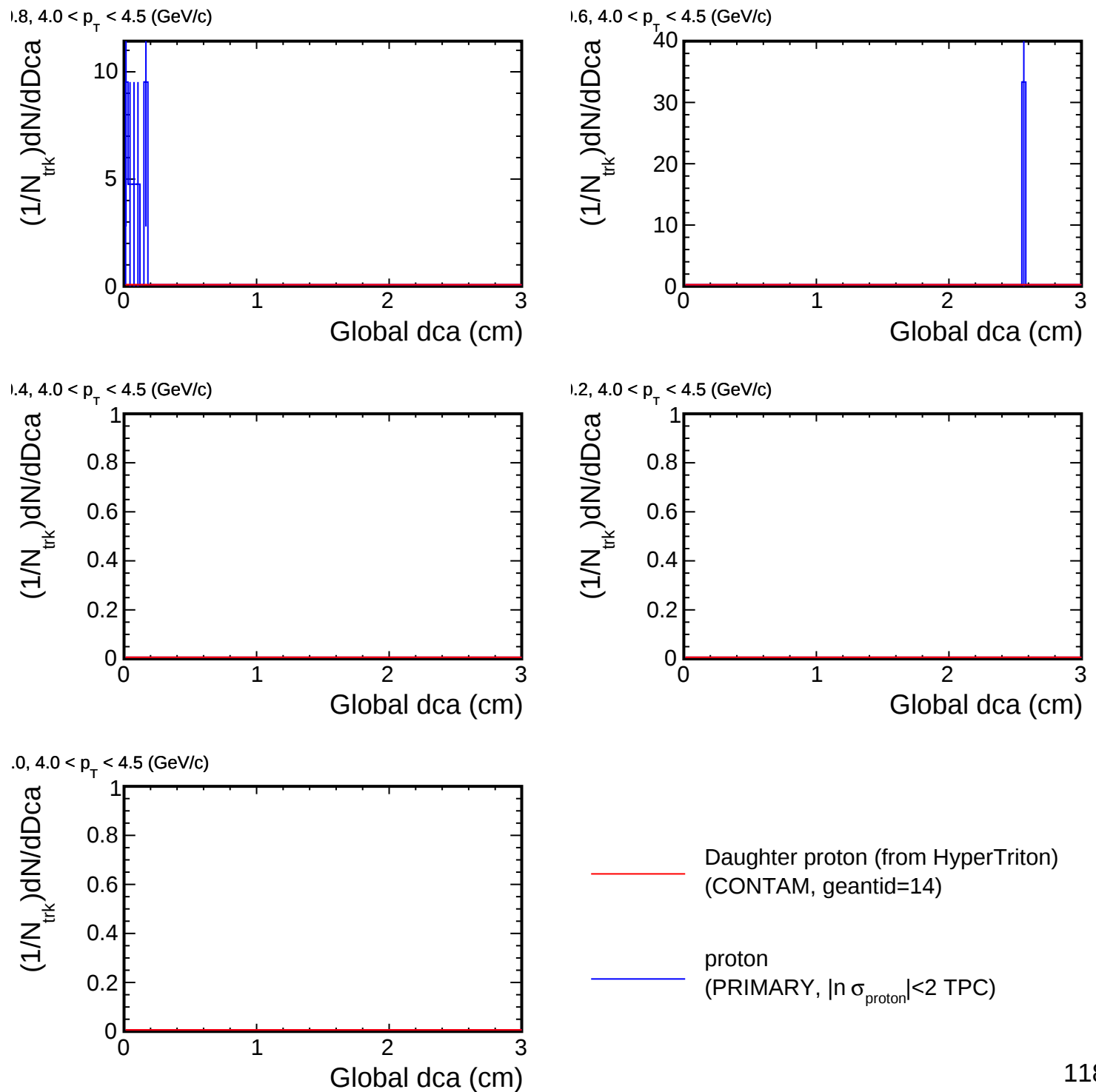
0, $3.5 < p_T < 4.0$ (GeV/c)



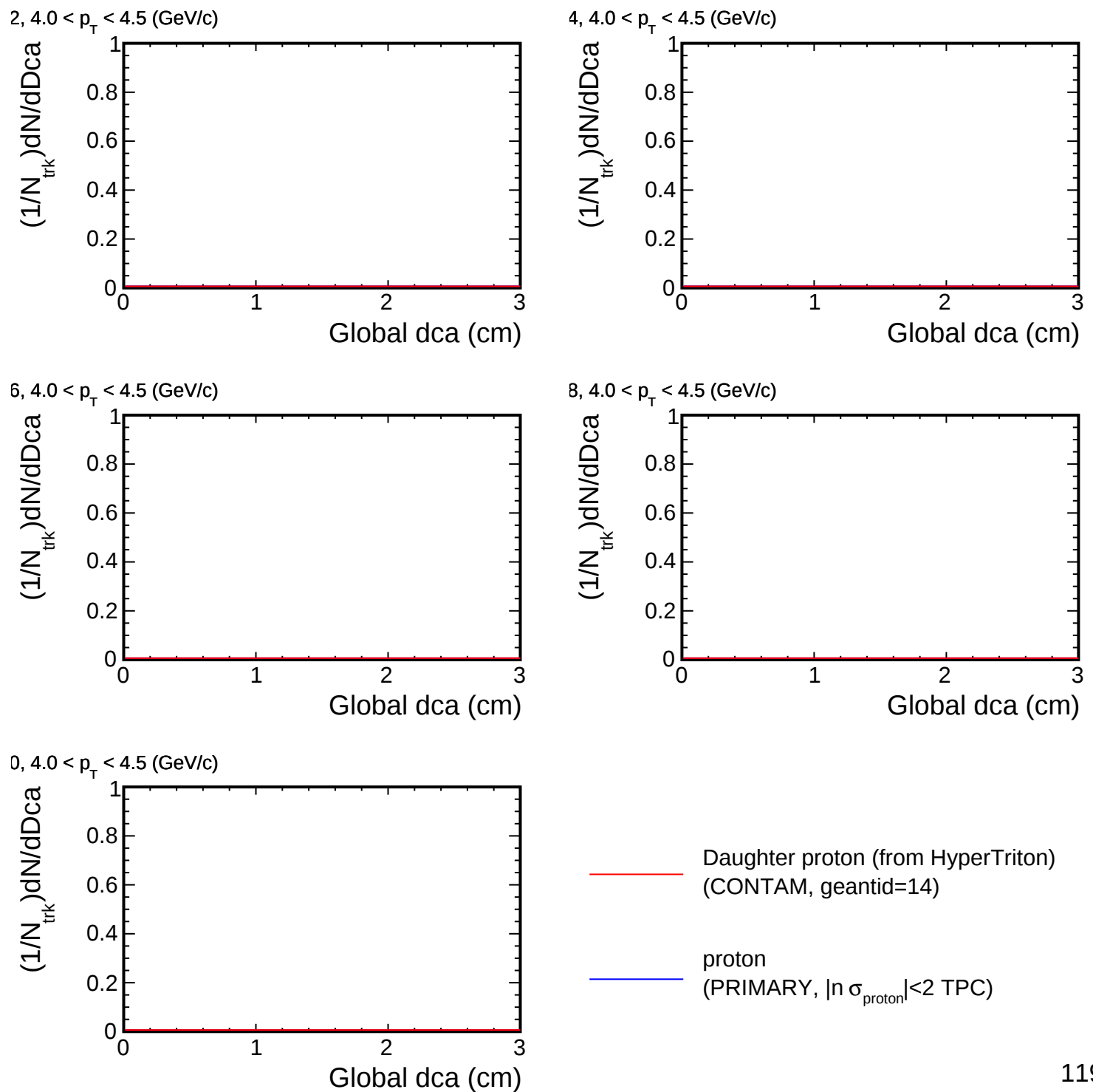
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

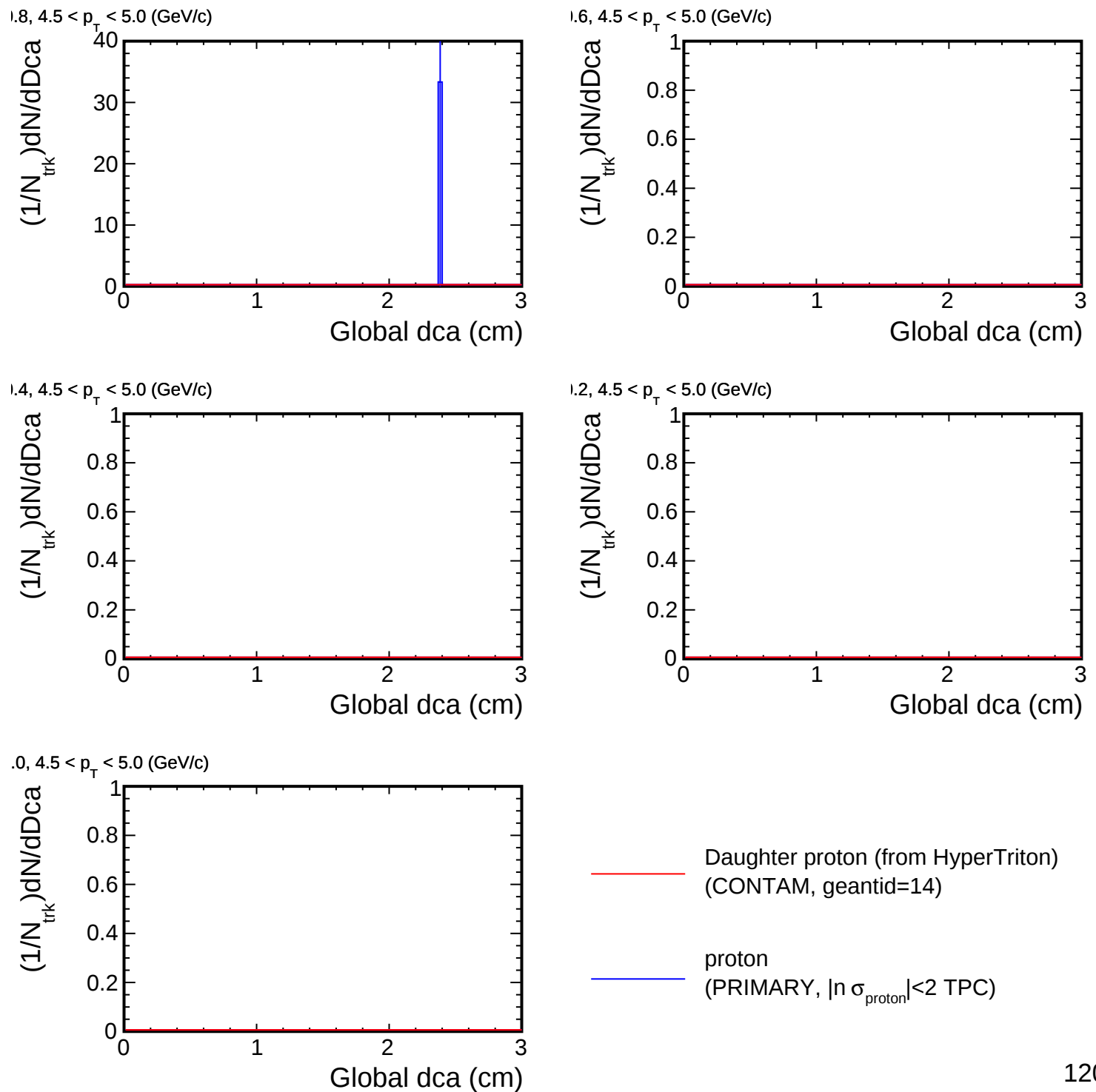
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

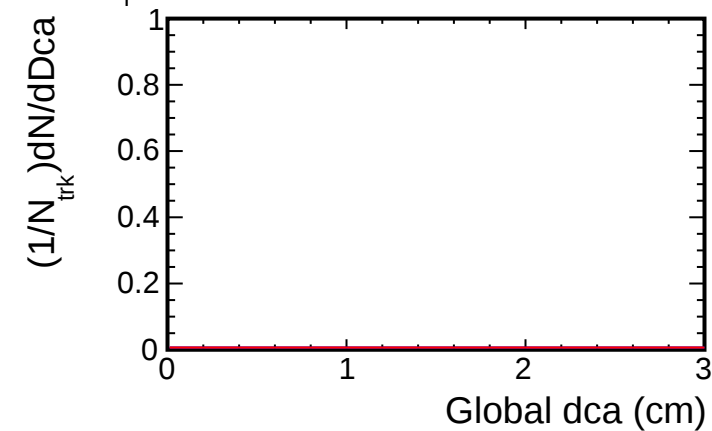


Dca distribution for (p_T , η) slices

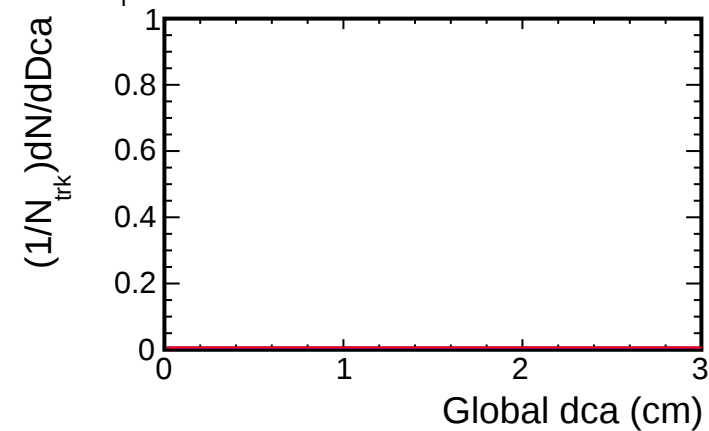


Dca distribution for (p_T , η) slices

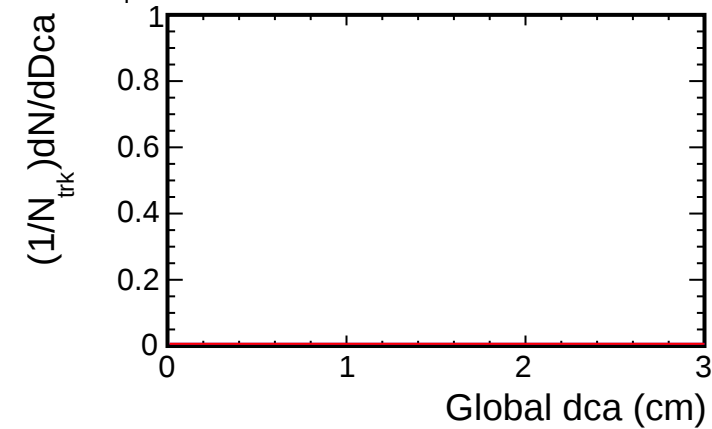
2, $4.5 < p_T < 5.0$ (GeV/c)



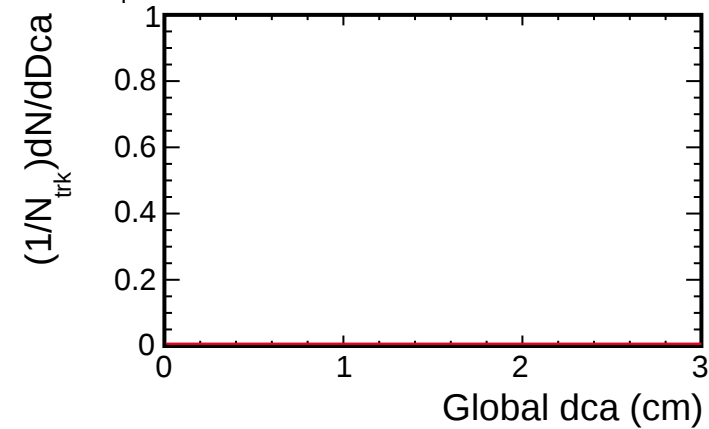
4, $4.5 < p_T < 5.0$ (GeV/c)



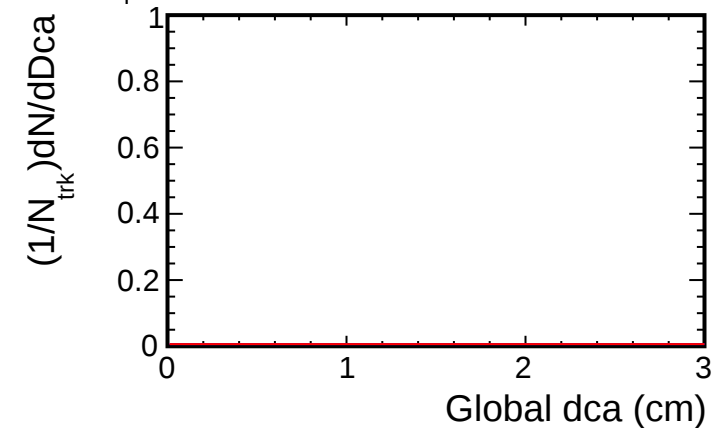
6, $4.5 < p_T < 5.0$ (GeV/c)



8, $4.5 < p_T < 5.0$ (GeV/c)



0, $4.5 < p_T < 5.0$ (GeV/c)

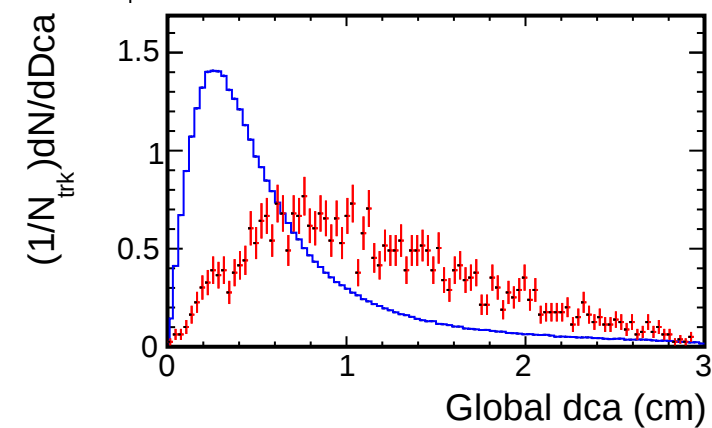


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

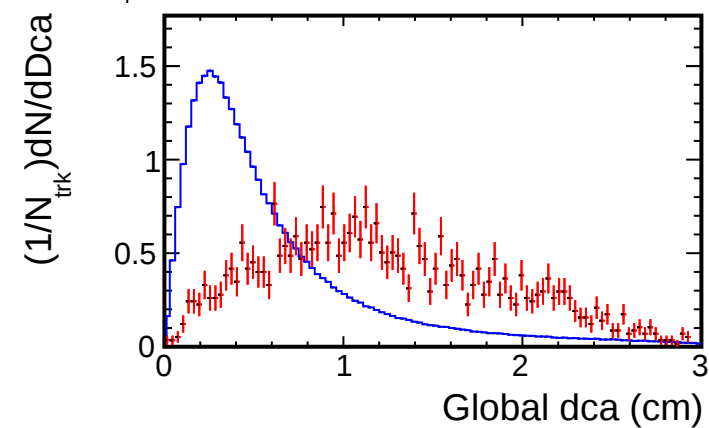
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

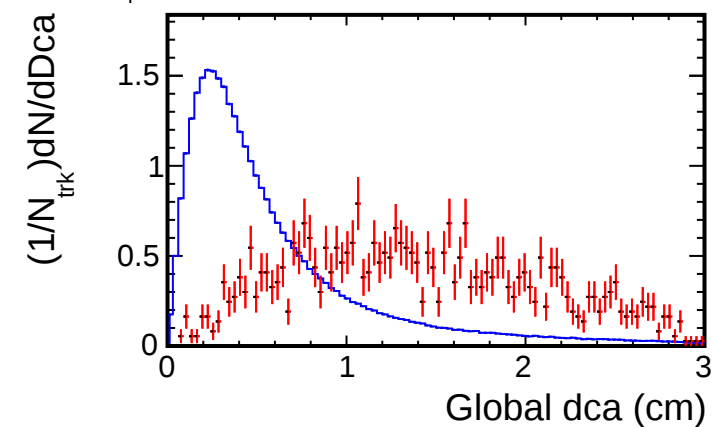
1.8, $0.1 < p_T < 0.5$ (GeV/c)



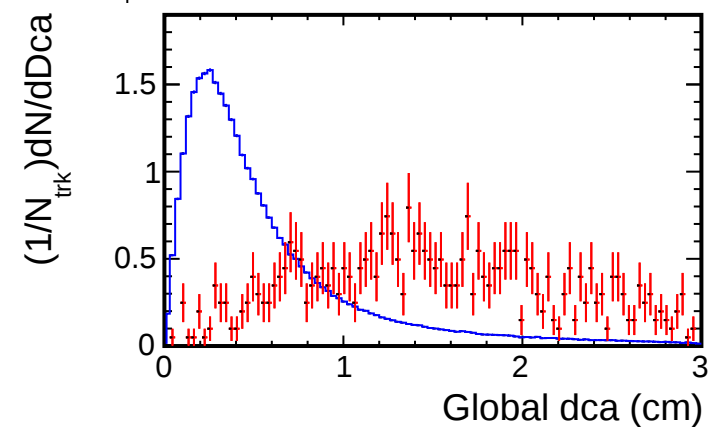
1.6, $0.1 < p_T < 0.5$ (GeV/c)



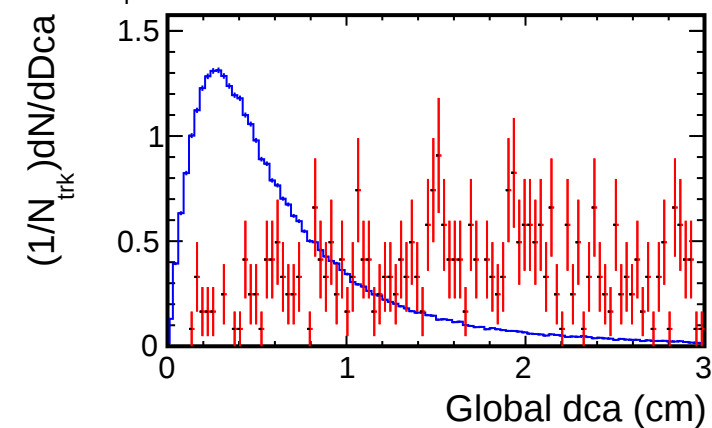
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



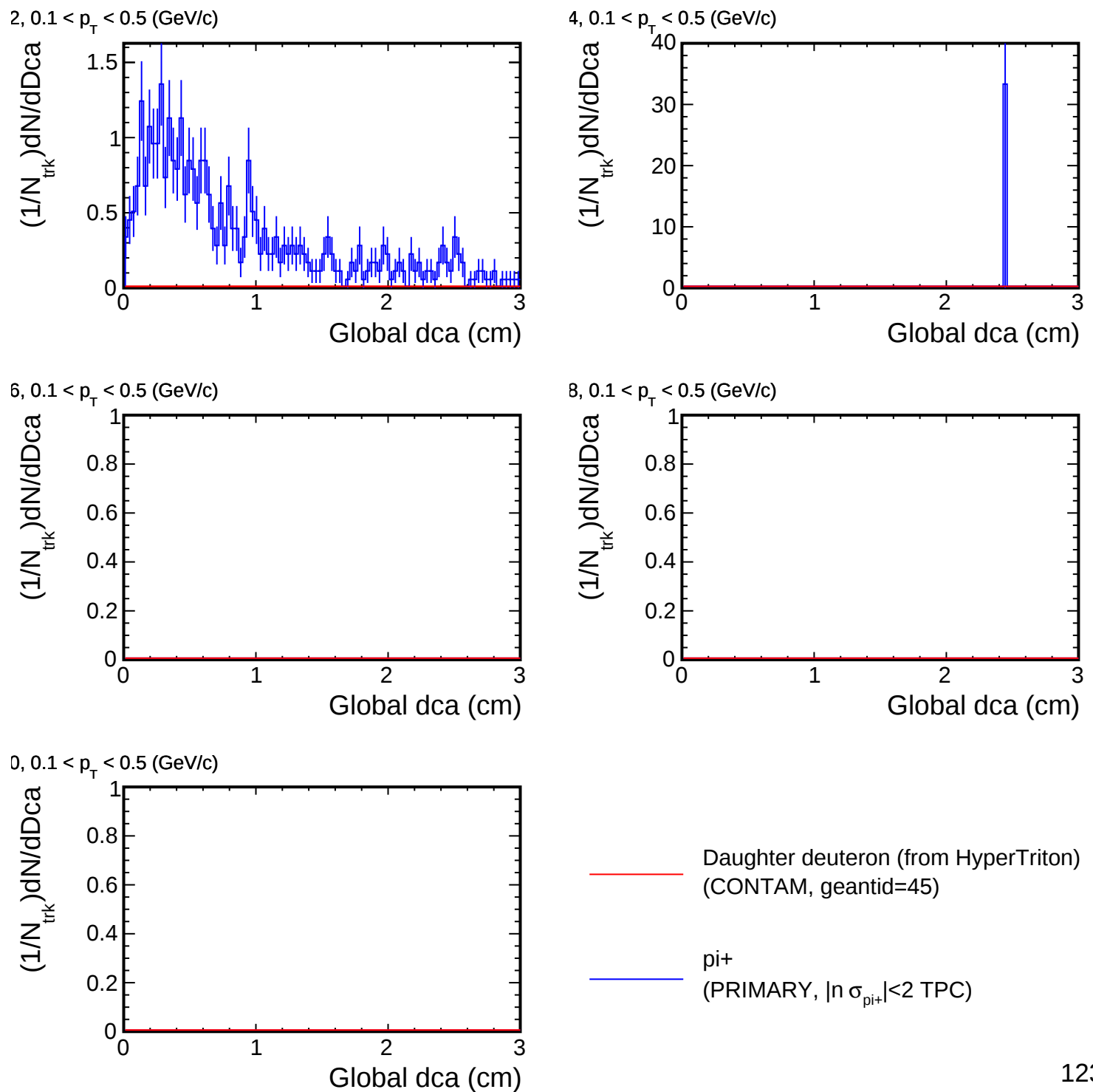
1.0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

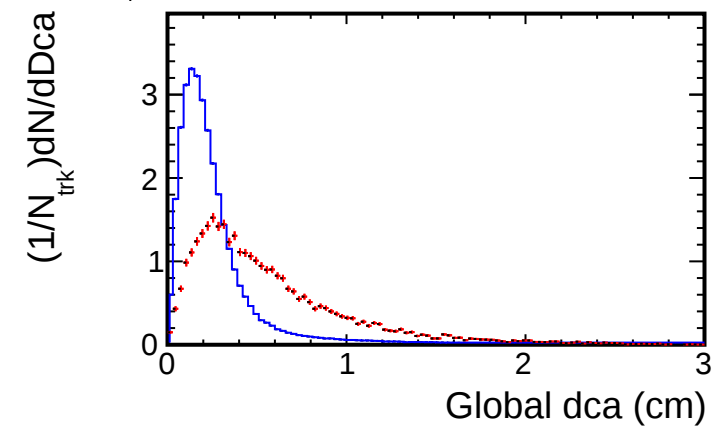
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

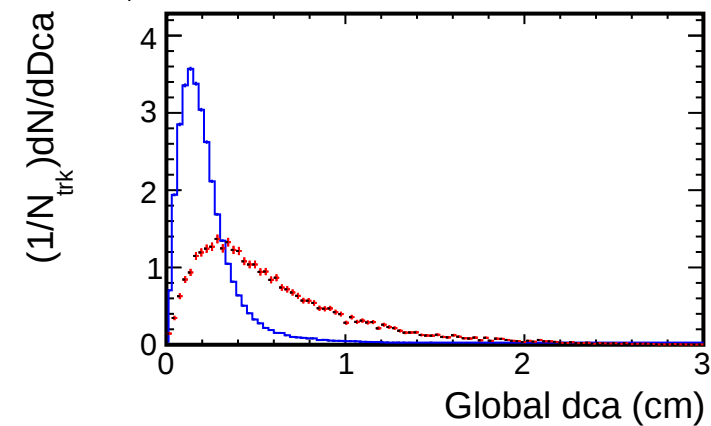


Dca distribution for (p_T , η) slices

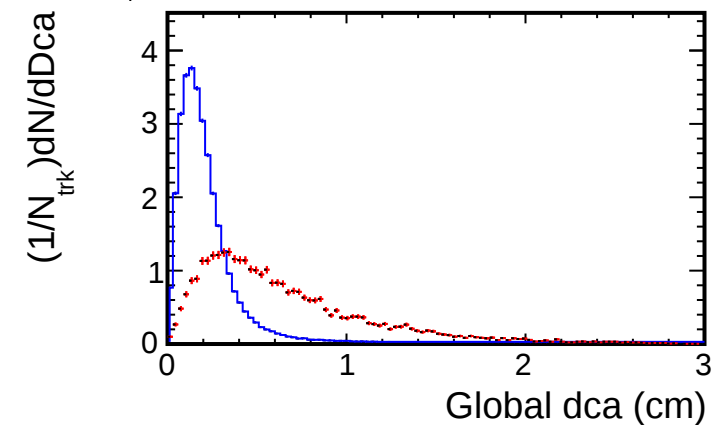
1.8, $0.5 < p_T < 1.0$ (GeV/c)



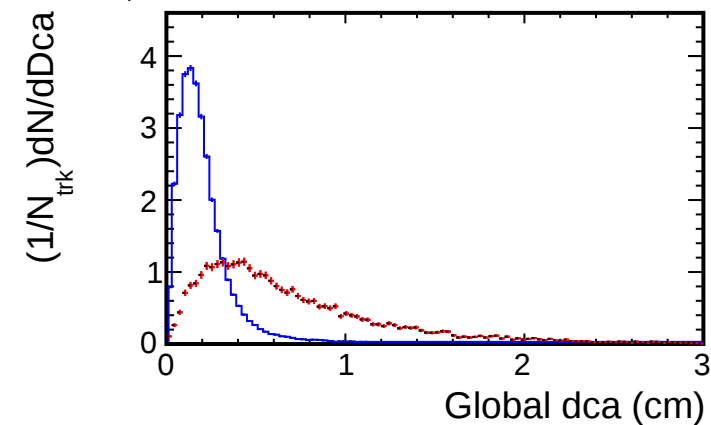
1.6, $0.5 < p_T < 1.0$ (GeV/c)



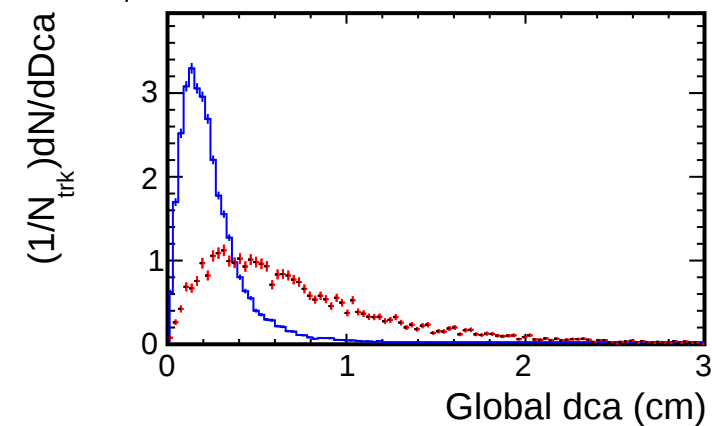
1.4, $0.5 < p_T < 1.0$ (GeV/c)



1.2, $0.5 < p_T < 1.0$ (GeV/c)



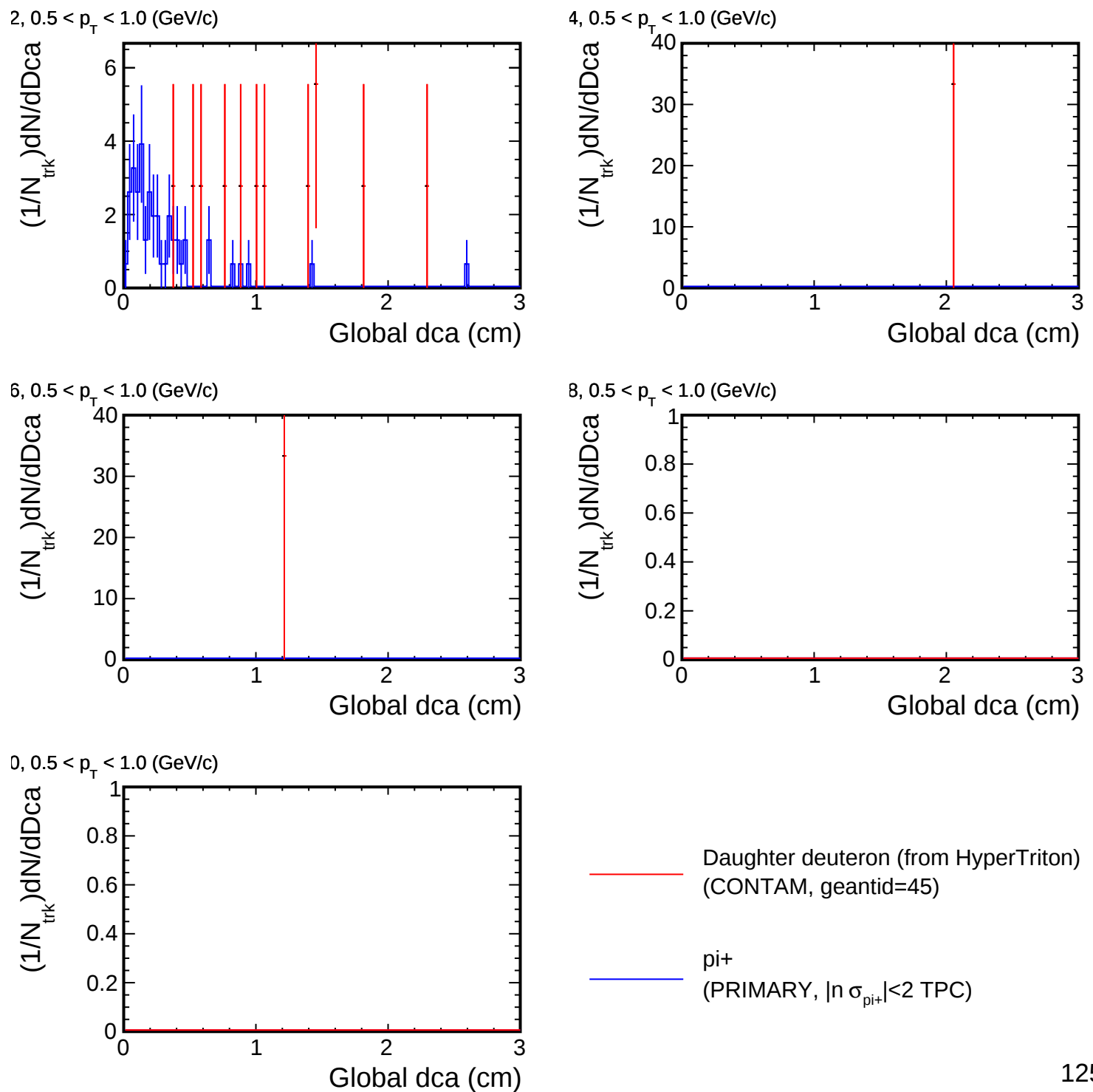
1.0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

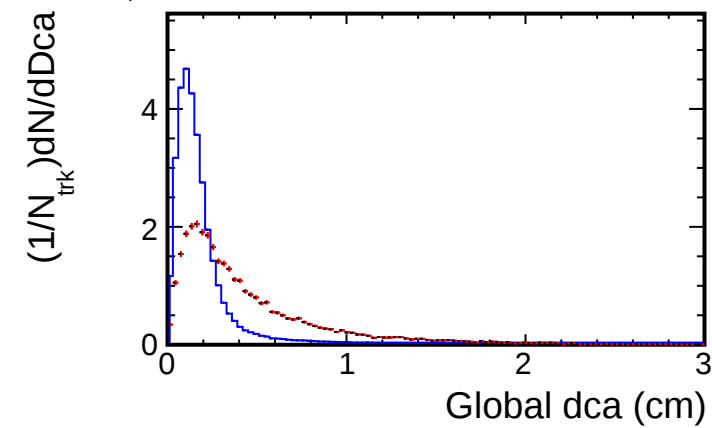
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

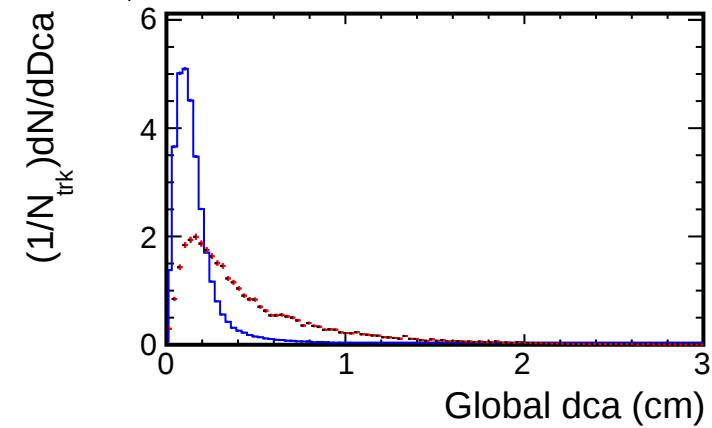


Dca distribution for (p_T , η) slices

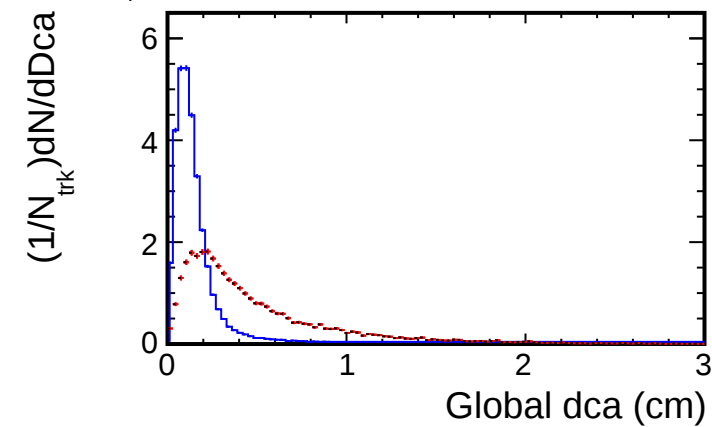
1.8, $1.0 < p_T < 1.5$ (GeV/c)



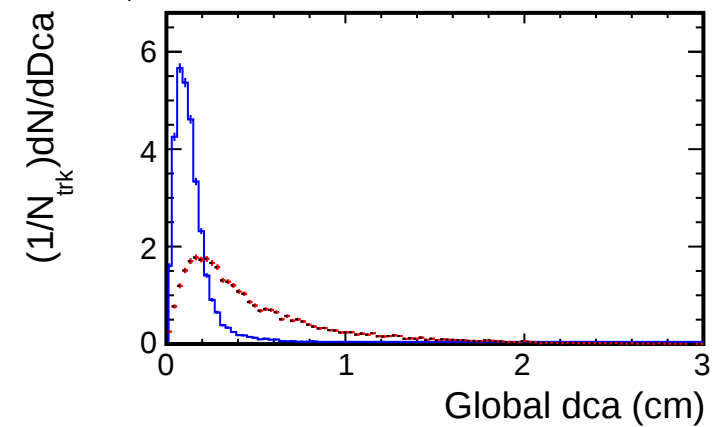
1.6, $1.0 < p_T < 1.5$ (GeV/c)



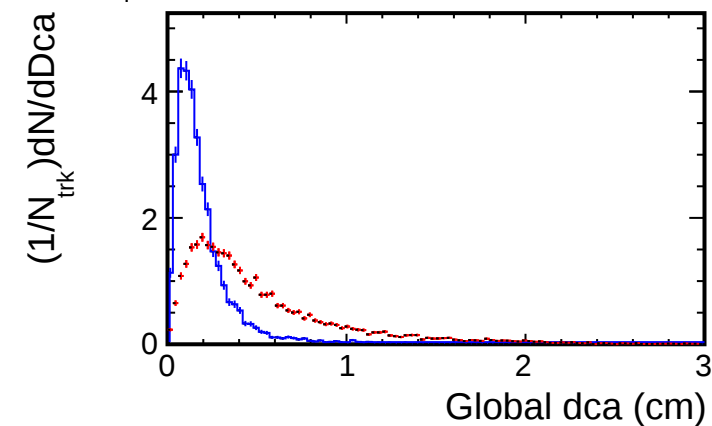
1.4, $1.0 < p_T < 1.5$ (GeV/c)



1.2, $1.0 < p_T < 1.5$ (GeV/c)



1.0, $1.0 < p_T < 1.5$ (GeV/c)

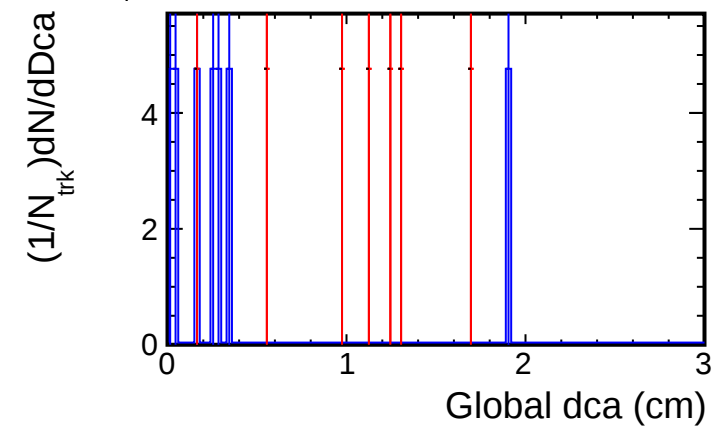


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

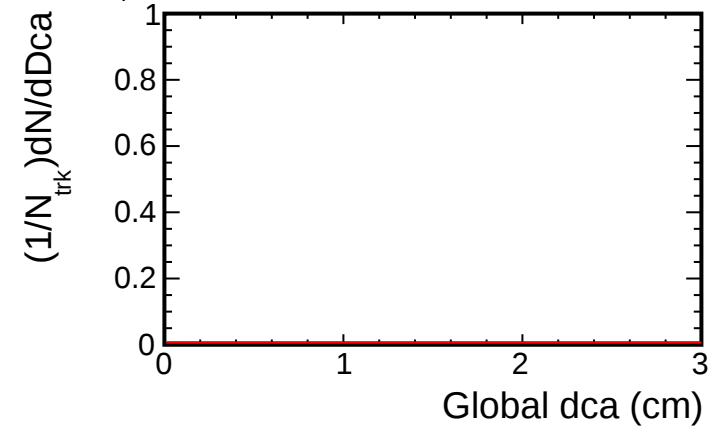
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

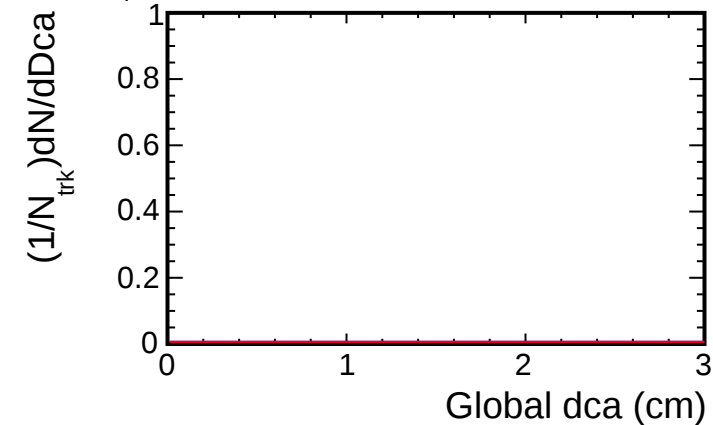
2, $1.0 < p_T < 1.5$ (GeV/c)



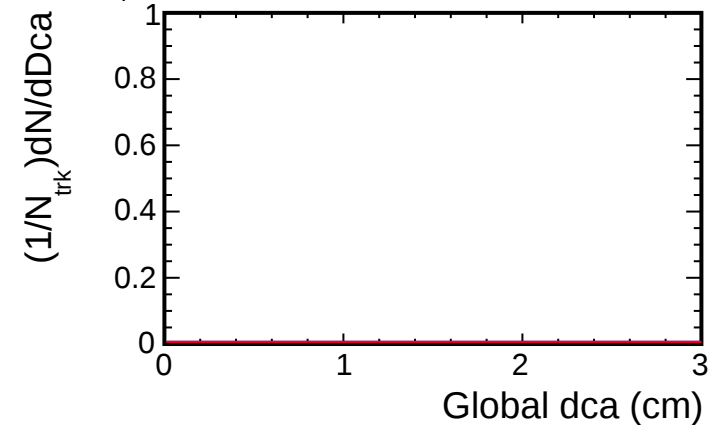
4, $1.0 < p_T < 1.5$ (GeV/c)



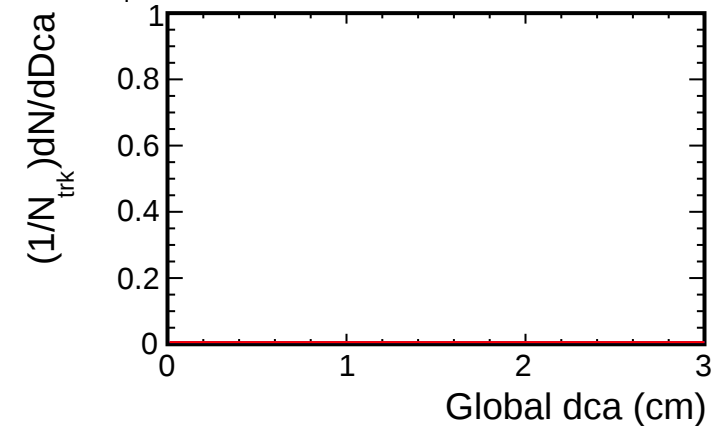
6, $1.0 < p_T < 1.5$ (GeV/c)



8, $1.0 < p_T < 1.5$ (GeV/c)



0, $1.0 < p_T < 1.5$ (GeV/c)

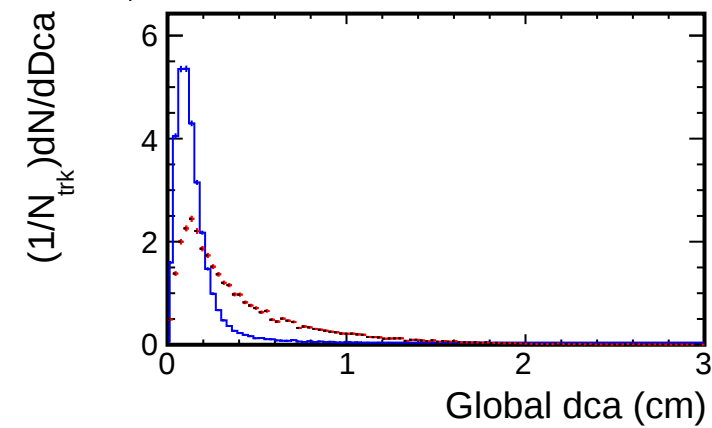


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

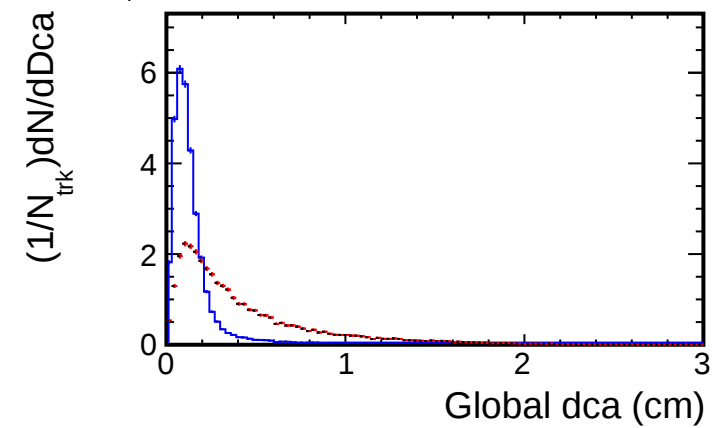
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

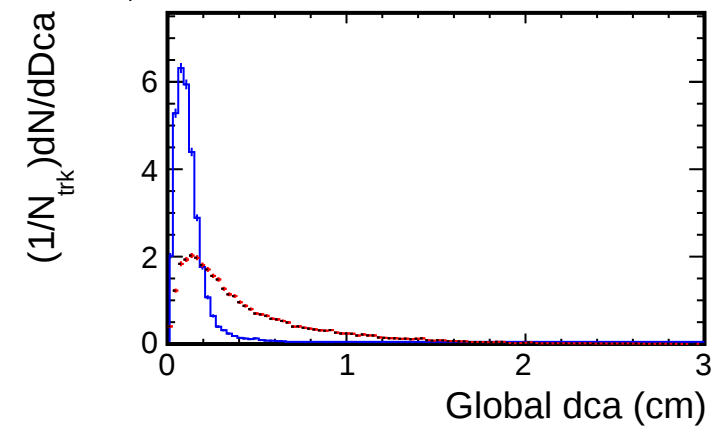
1.8, $1.5 < p_T < 2.0$ (GeV/c)



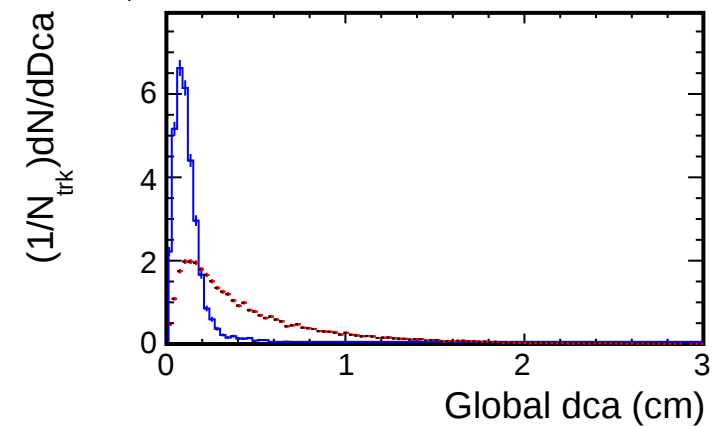
1.6, $1.5 < p_T < 2.0$ (GeV/c)



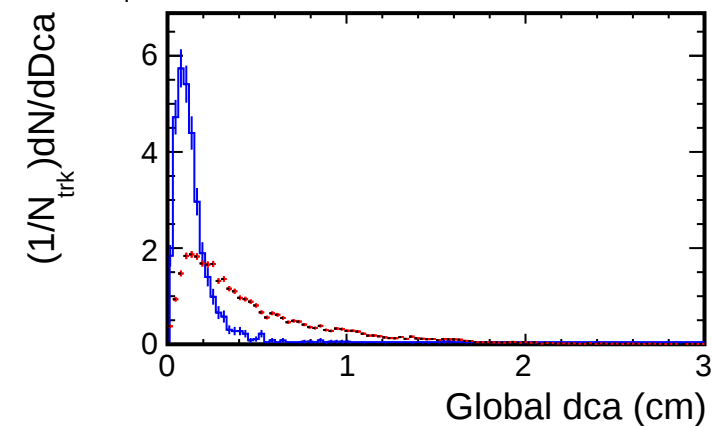
1.4, $1.5 < p_T < 2.0$ (GeV/c)



1.2, $1.5 < p_T < 2.0$ (GeV/c)



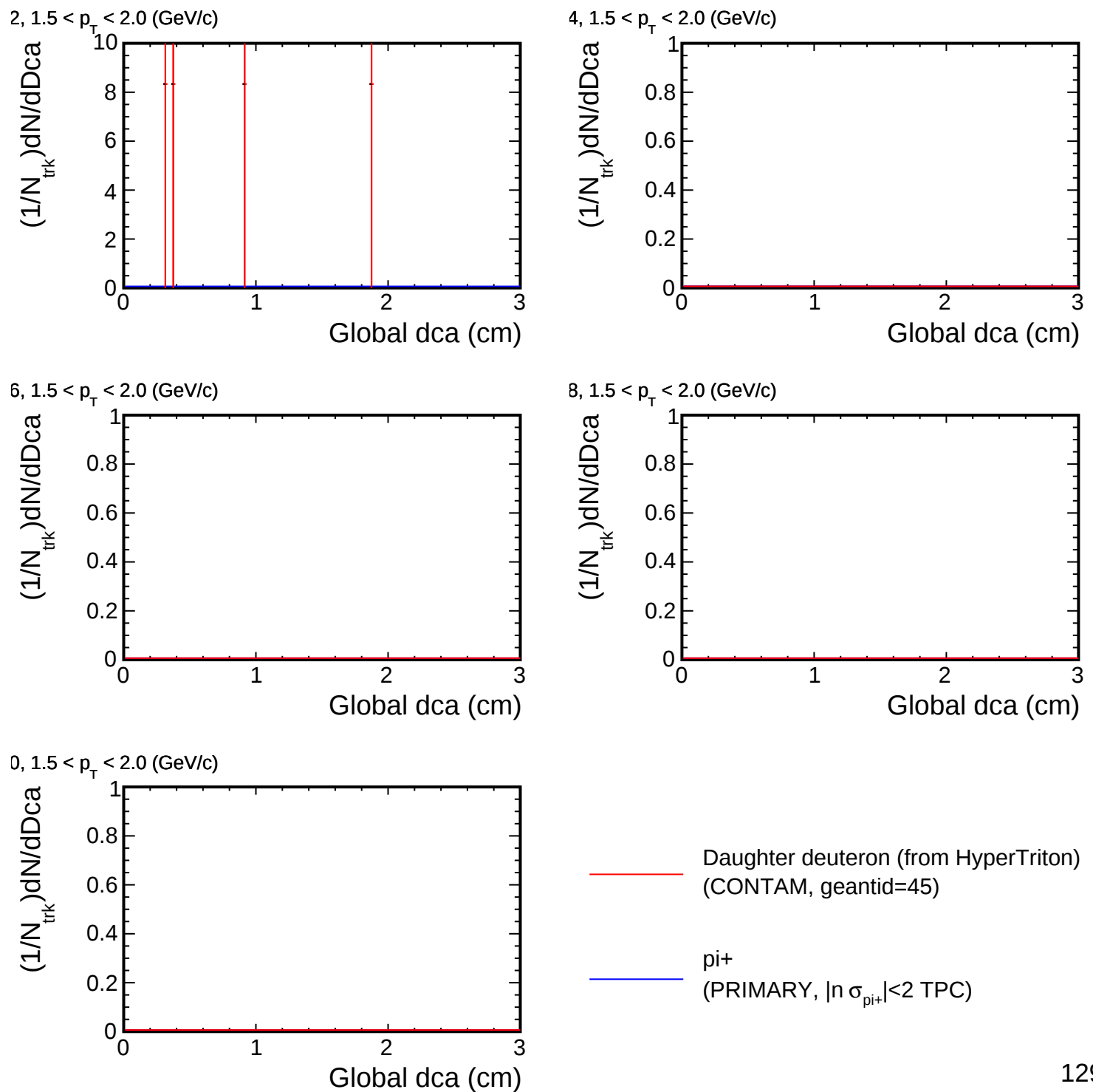
1.0, $1.5 < p_T < 2.0$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

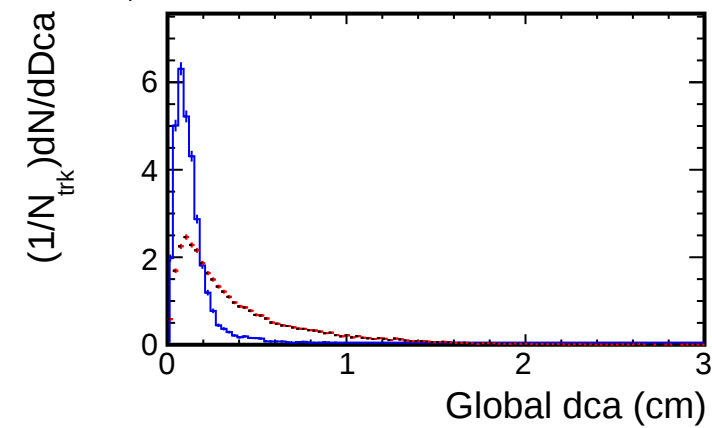
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

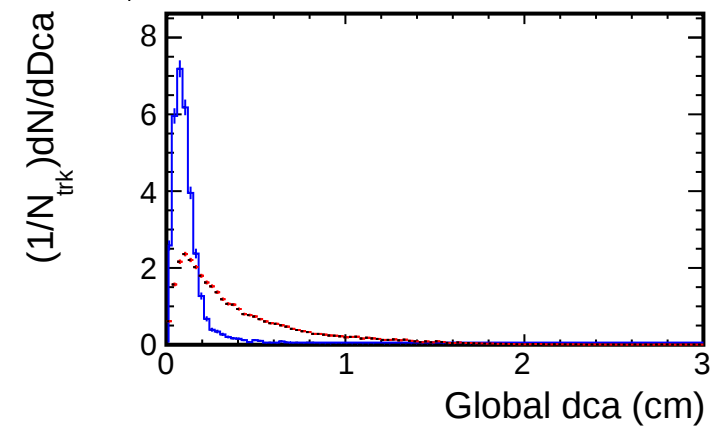


Dca distribution for (p_T , η) slices

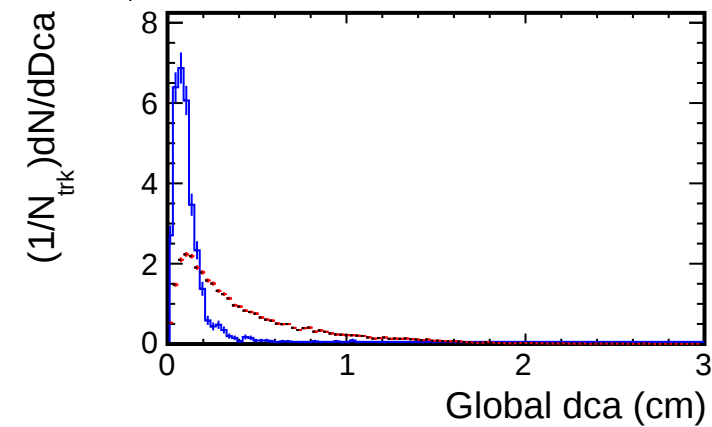
1.8, $2.0 < p_T < 2.5$ (GeV/c)



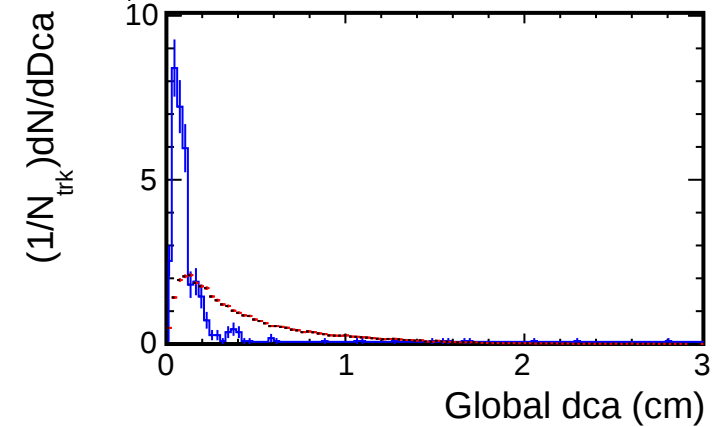
1.6, $2.0 < p_T < 2.5$ (GeV/c)



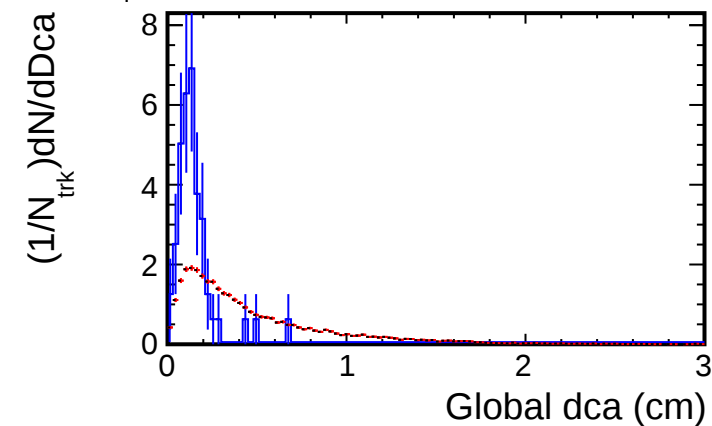
1.4, $2.0 < p_T < 2.5$ (GeV/c)



1.2, $2.0 < p_T < 2.5$ (GeV/c)



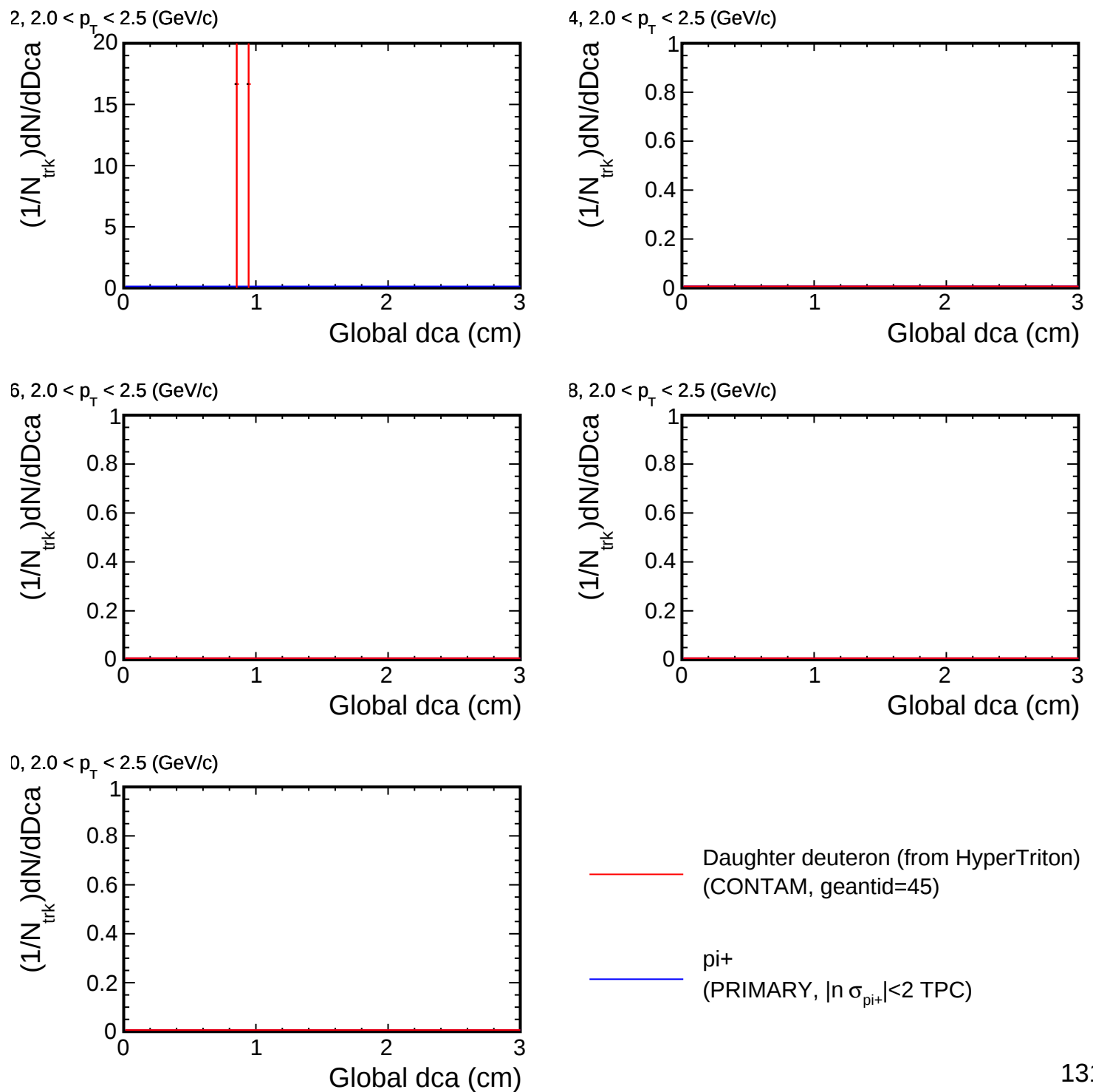
1.0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

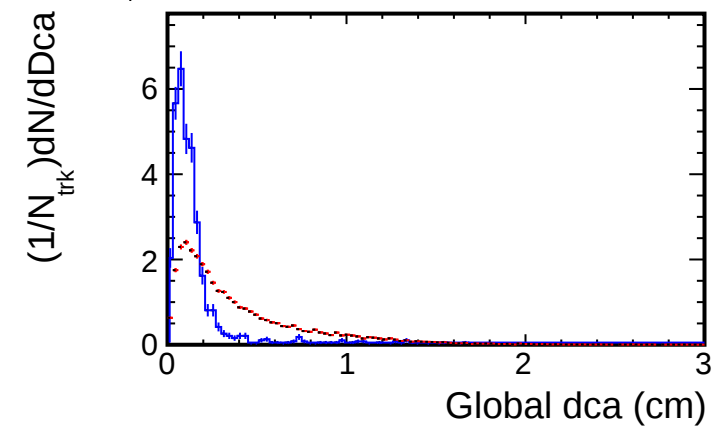
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

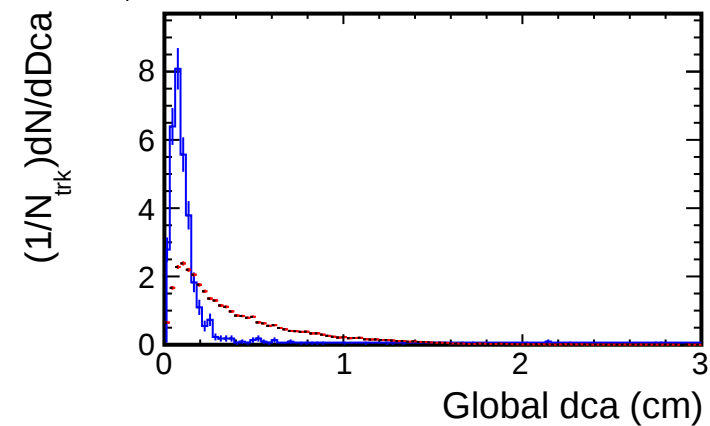


Dca distribution for (p_T , η) slices

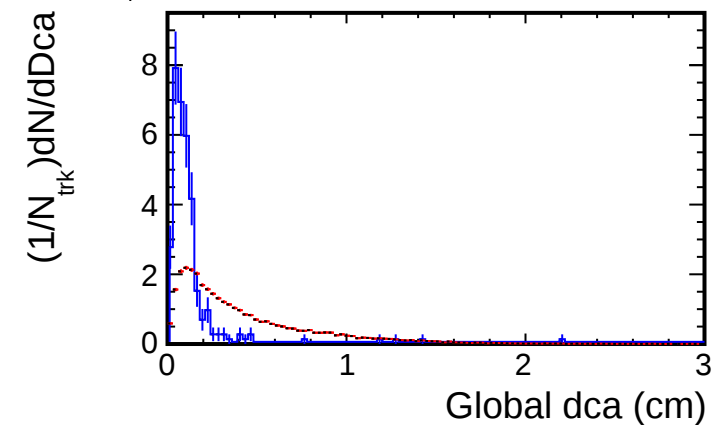
1.8, $2.5 < p_T < 3.0$ (GeV/c)



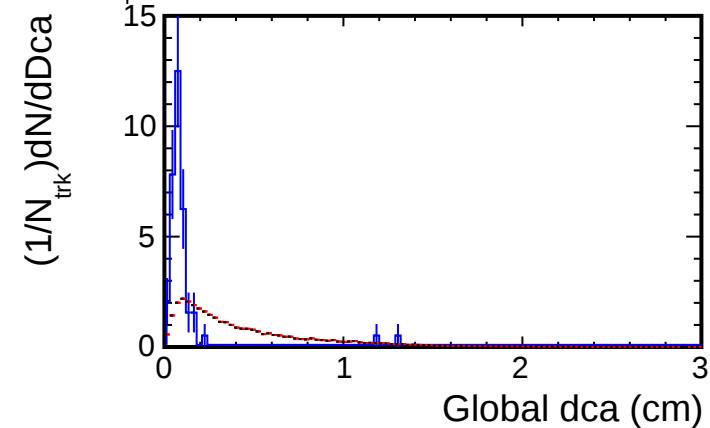
1.6, $2.5 < p_T < 3.0$ (GeV/c)



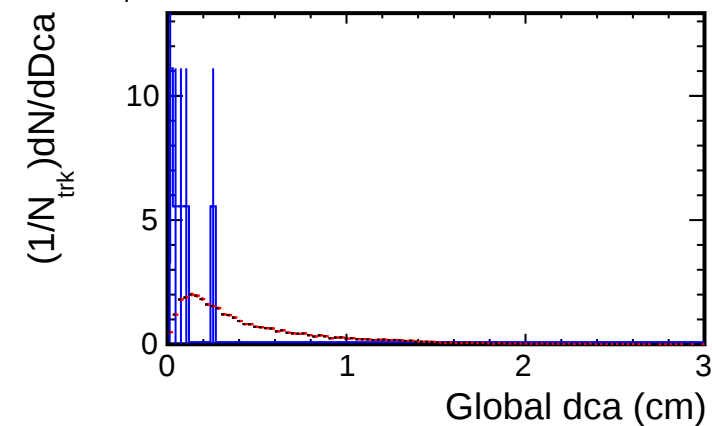
1.4, $2.5 < p_T < 3.0$ (GeV/c)



1.2, $2.5 < p_T < 3.0$ (GeV/c)



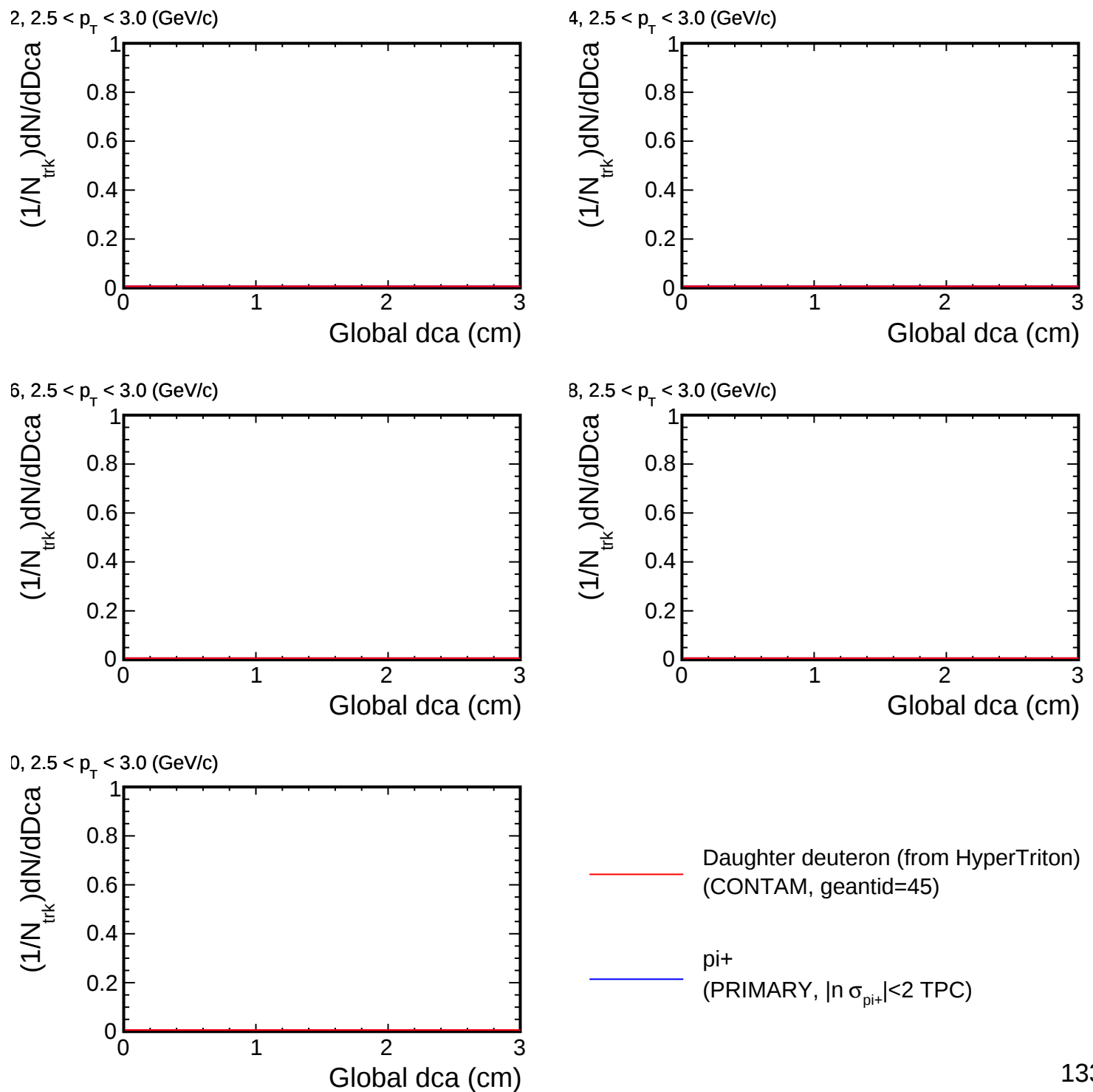
1.0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

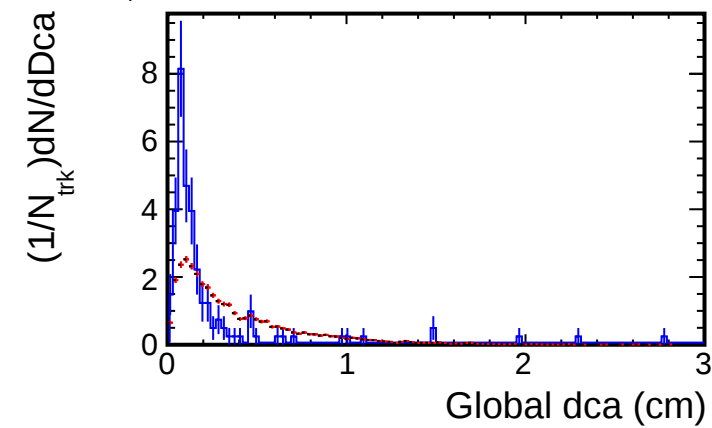
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

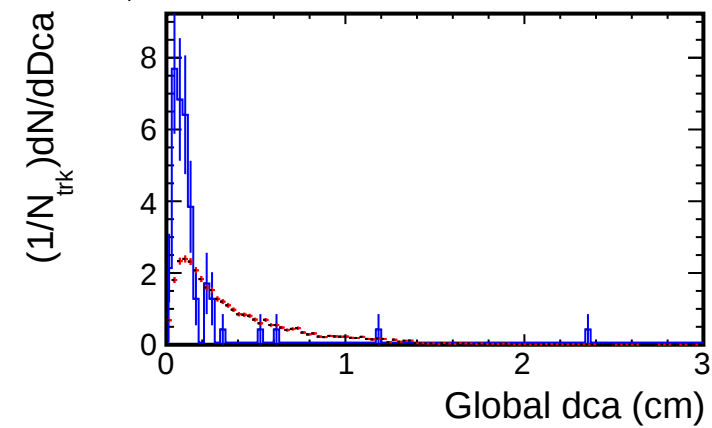


Dca distribution for (p_T , η) slices

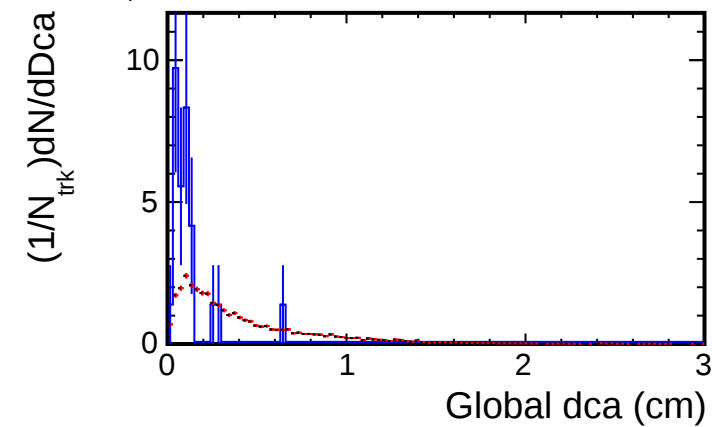
1.8, $3.0 < p_T < 3.5$ (GeV/c)



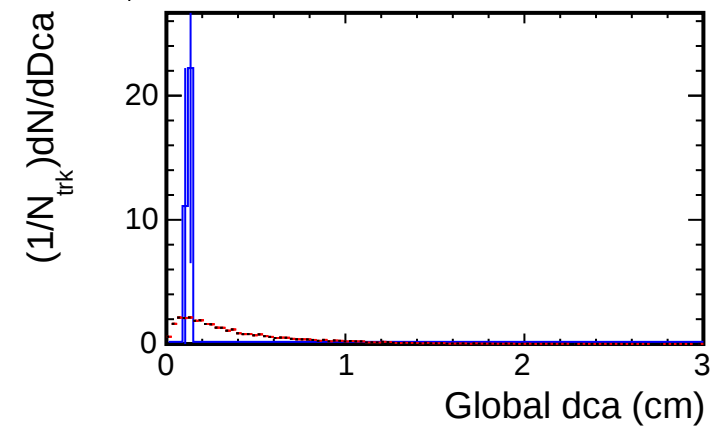
1.6, $3.0 < p_T < 3.5$ (GeV/c)



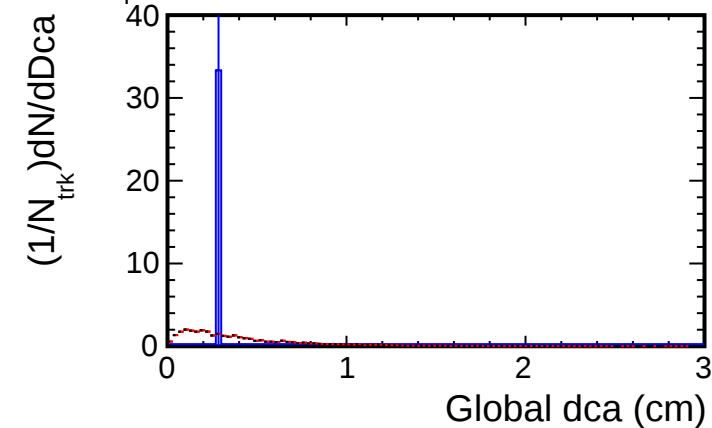
1.4, $3.0 < p_T < 3.5$ (GeV/c)



1.2, $3.0 < p_T < 3.5$ (GeV/c)



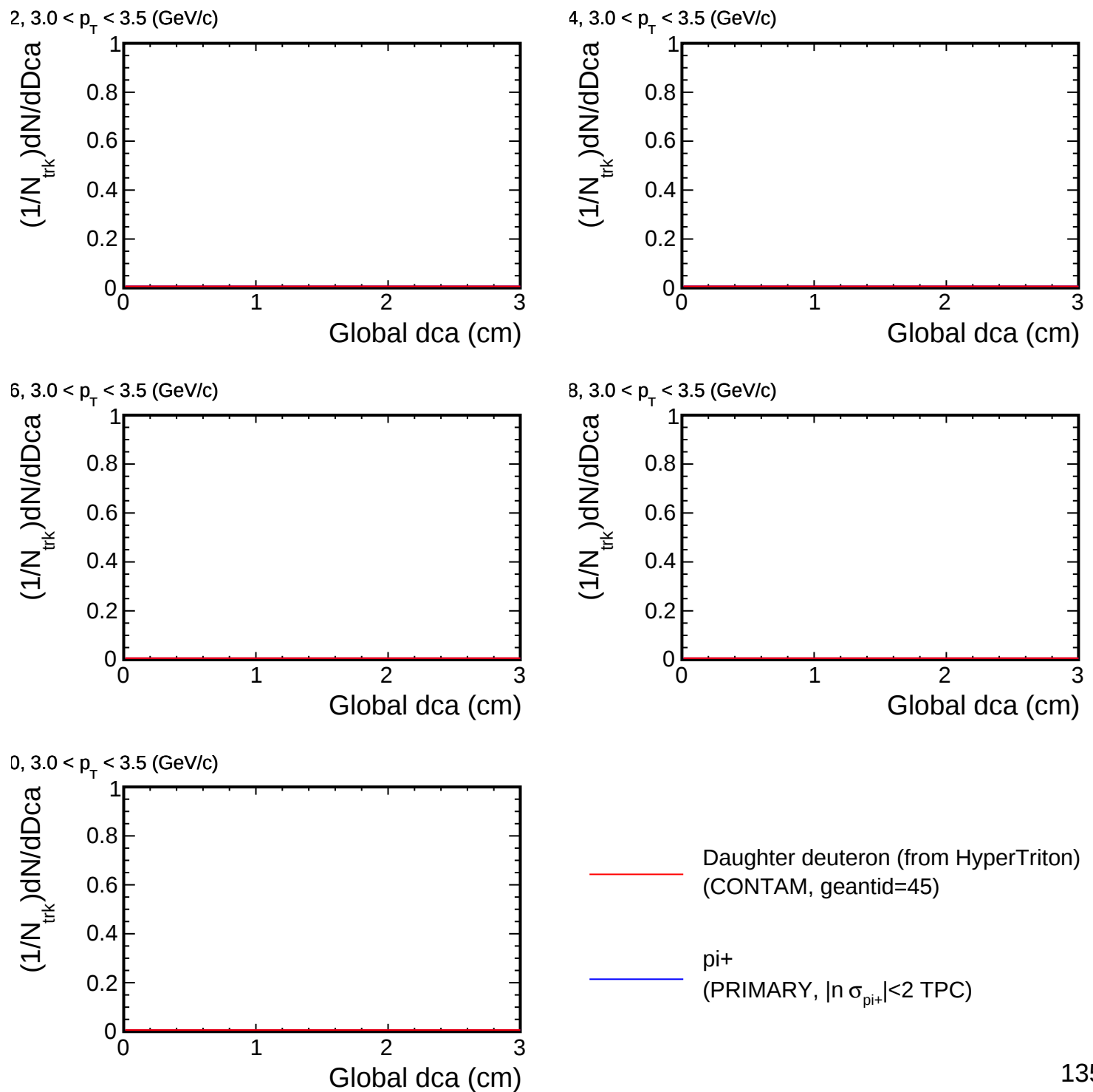
1.0, $3.0 < p_T < 3.5$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

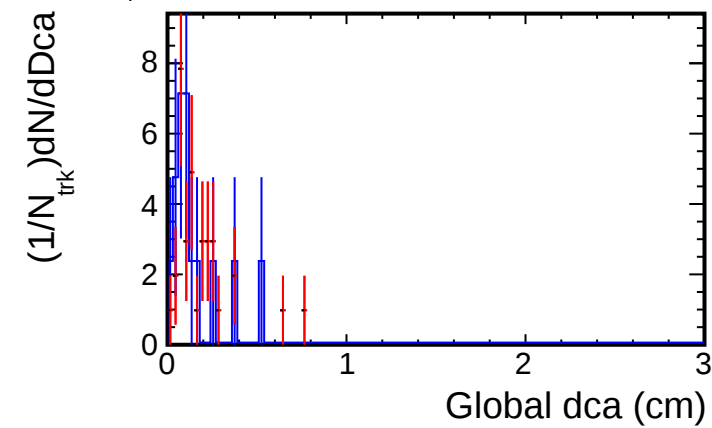
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

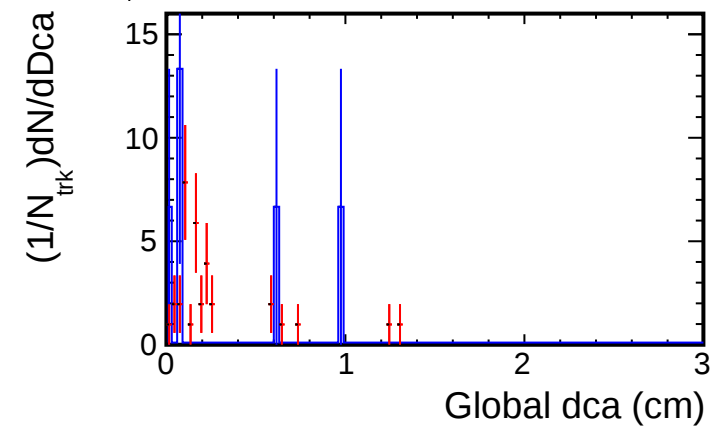


Dca distribution for (p_T , η) slices

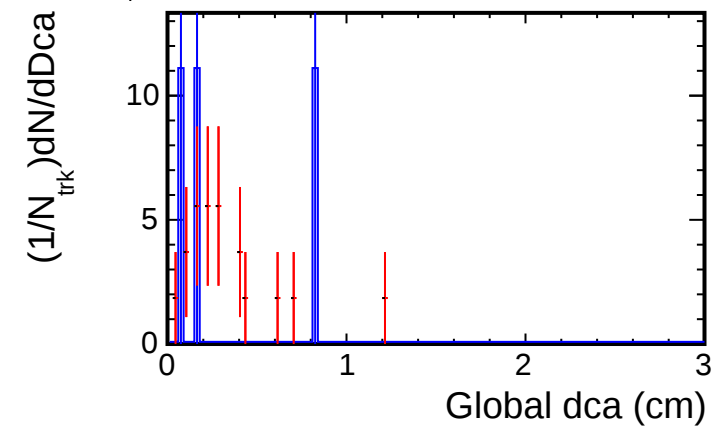
1.8, $3.5 < p_T < 4.0$ (GeV/c)



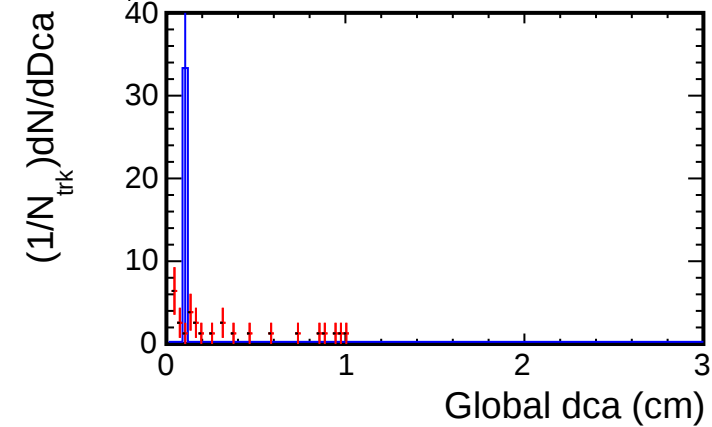
1.6, $3.5 < p_T < 4.0$ (GeV/c)



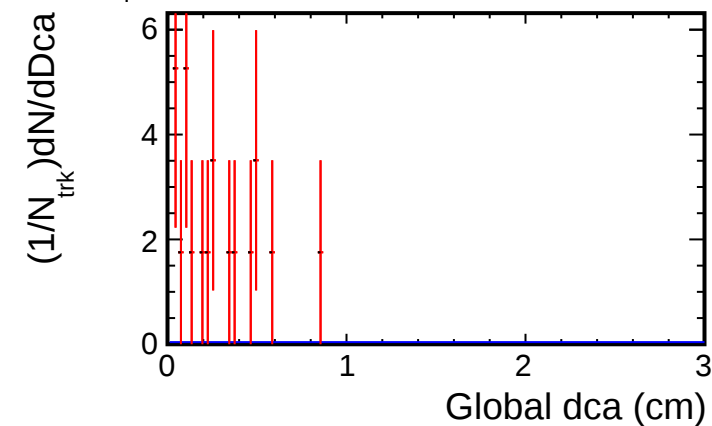
1.4, $3.5 < p_T < 4.0$ (GeV/c)



1.2, $3.5 < p_T < 4.0$ (GeV/c)



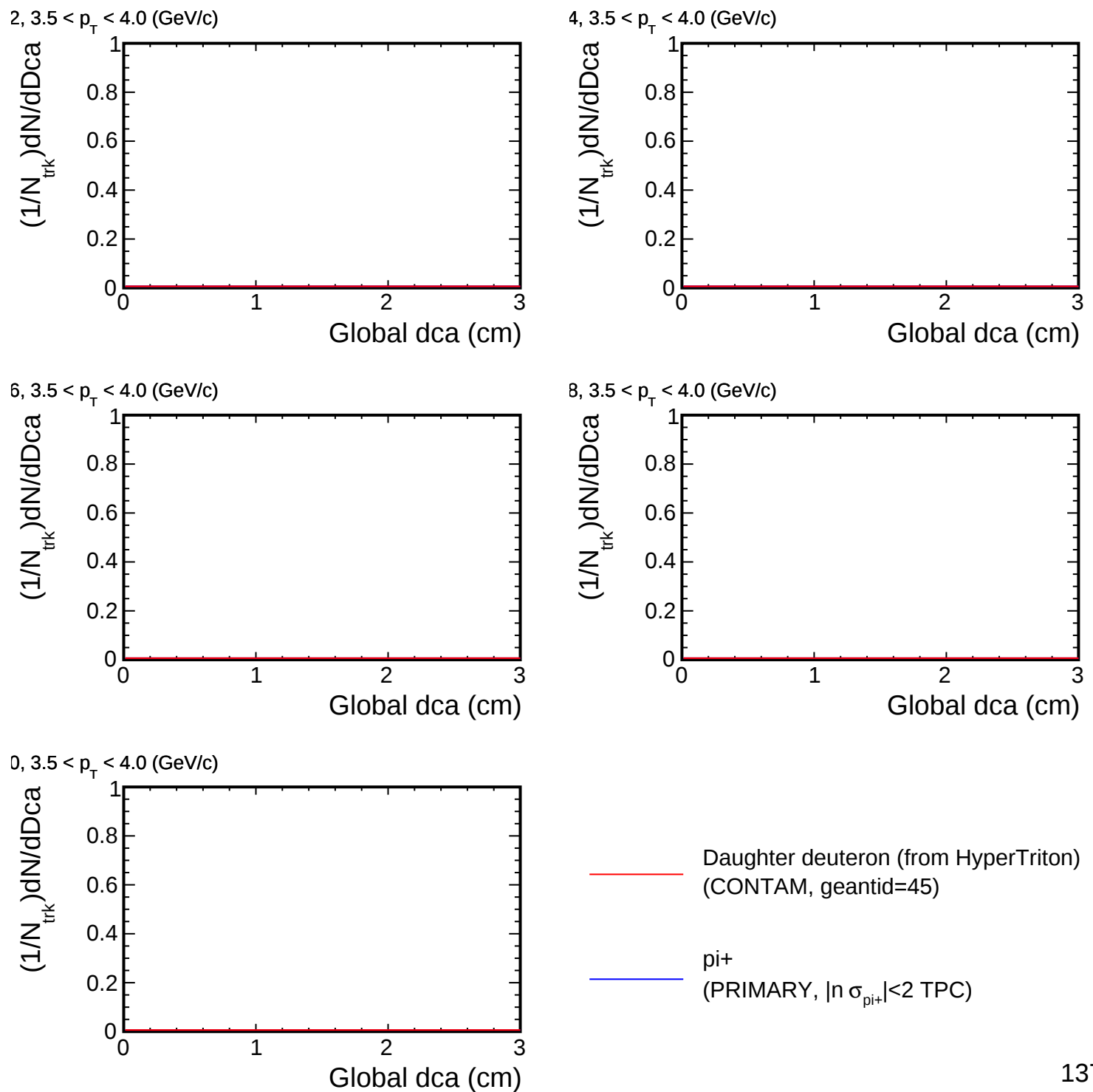
1.0, $3.5 < p_T < 4.0$ (GeV/c)



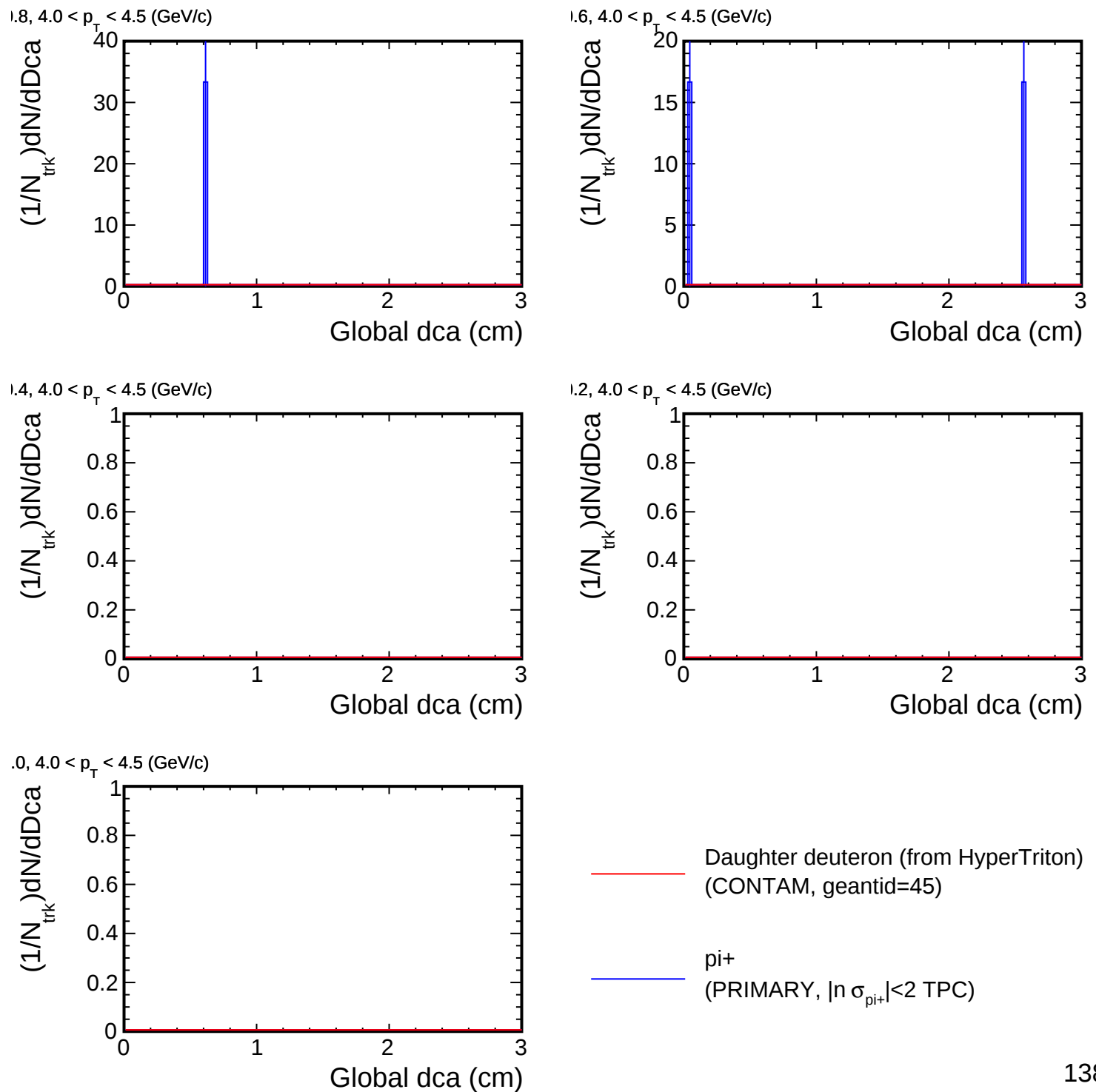
— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

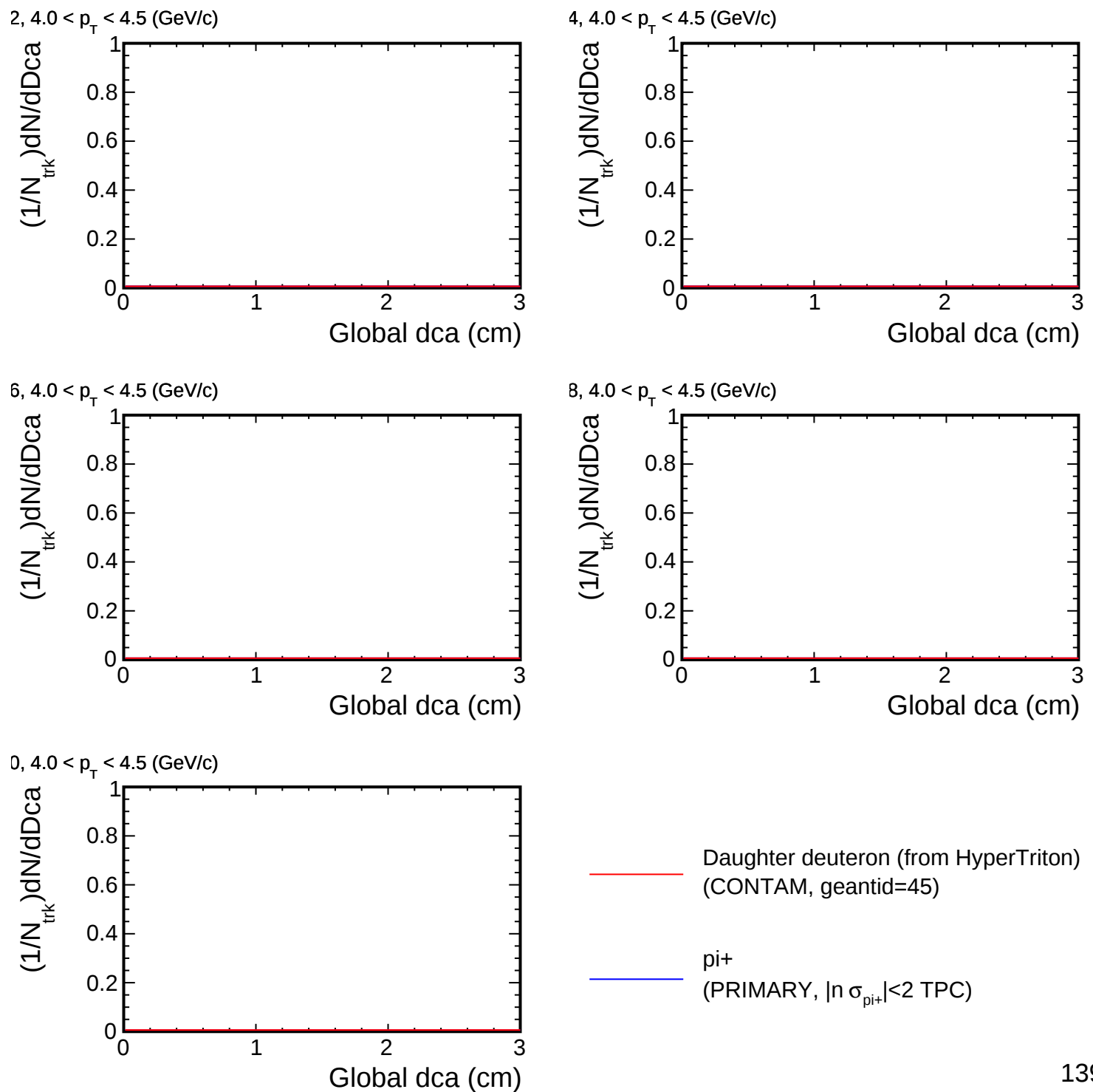
Dca distribution for (p_T , η) slices



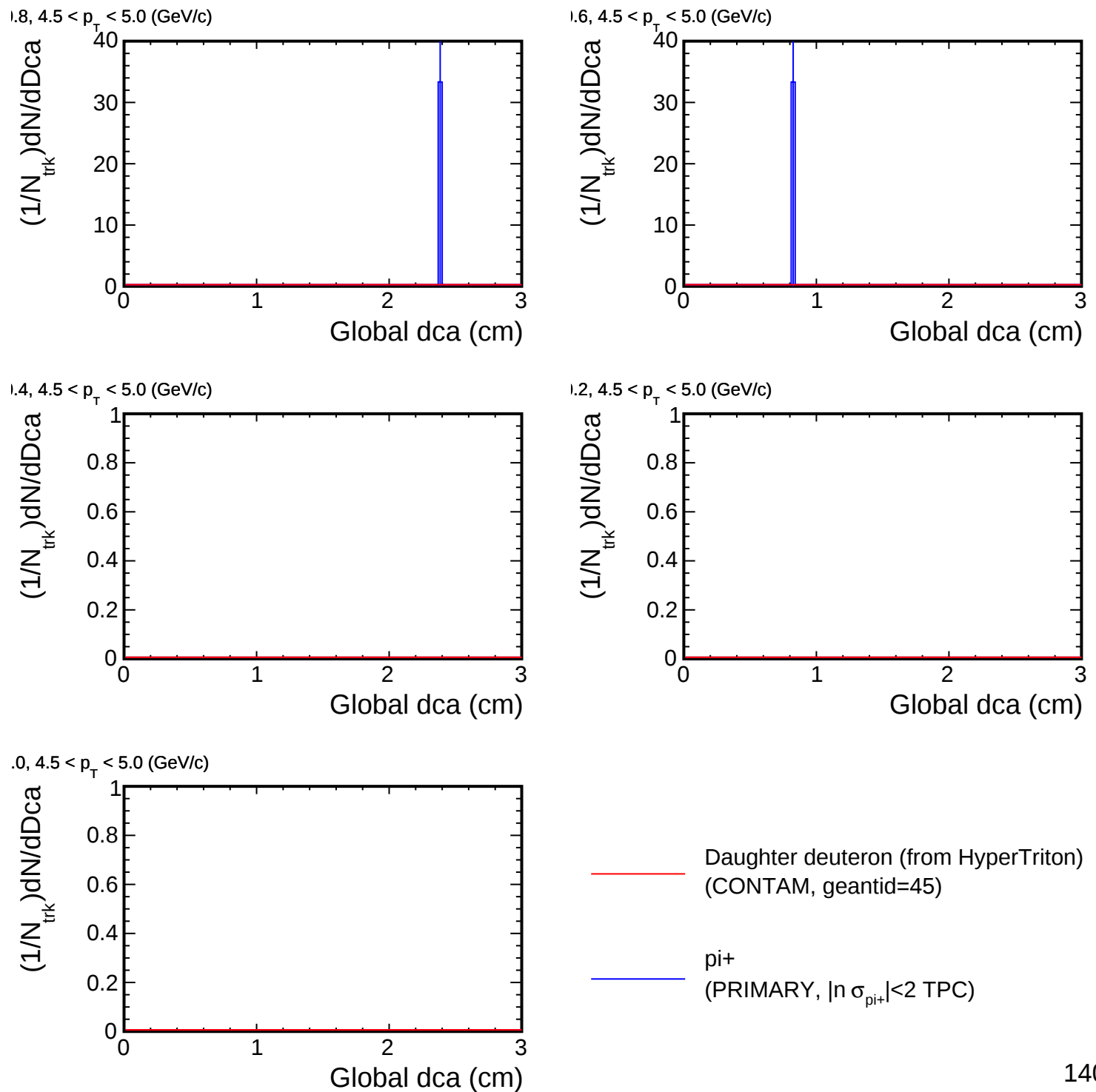
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

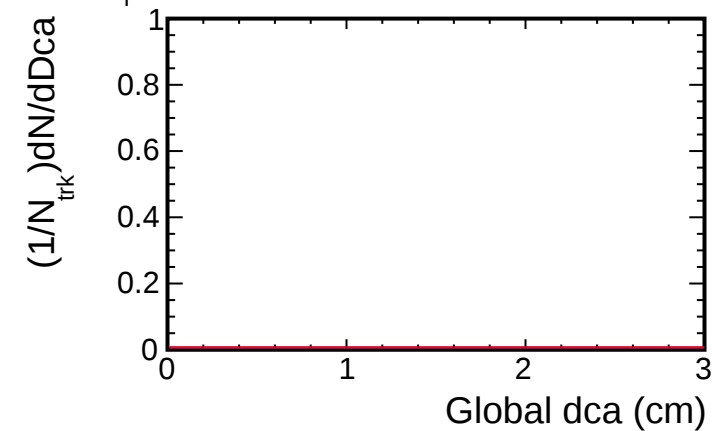


Dca distribution for (p_T , η) slices

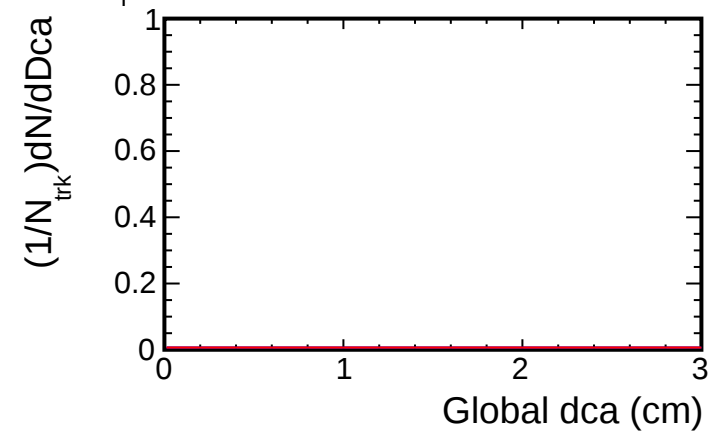


Dca distribution for (p_T , η) slices

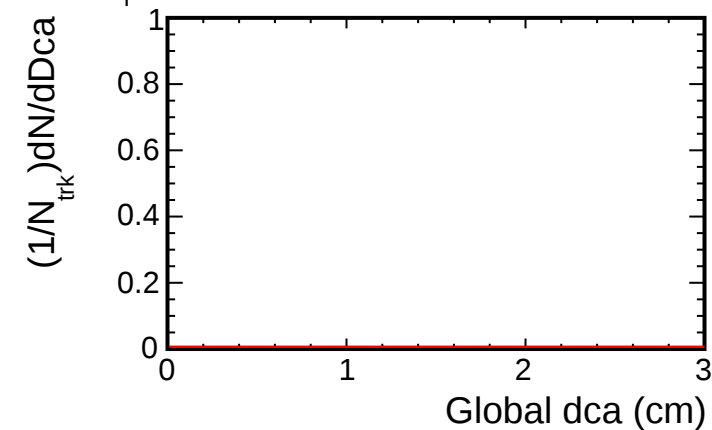
2, $4.5 < p_T < 5.0$ (GeV/c)



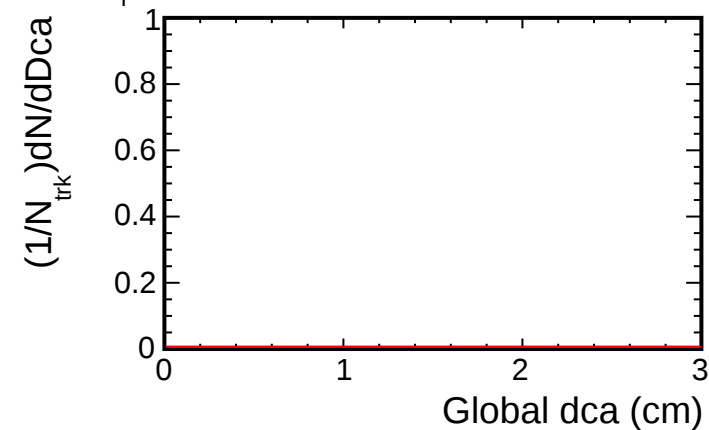
4, $4.5 < p_T < 5.0$ (GeV/c)



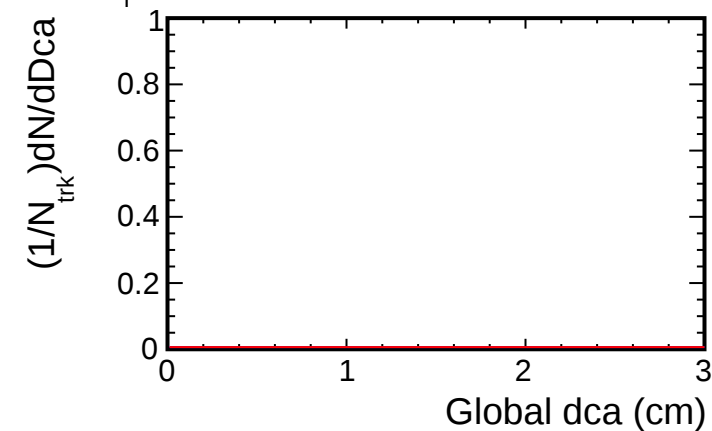
6, $4.5 < p_T < 5.0$ (GeV/c)



8, $4.5 < p_T < 5.0$ (GeV/c)



0, $4.5 < p_T < 5.0$ (GeV/c)

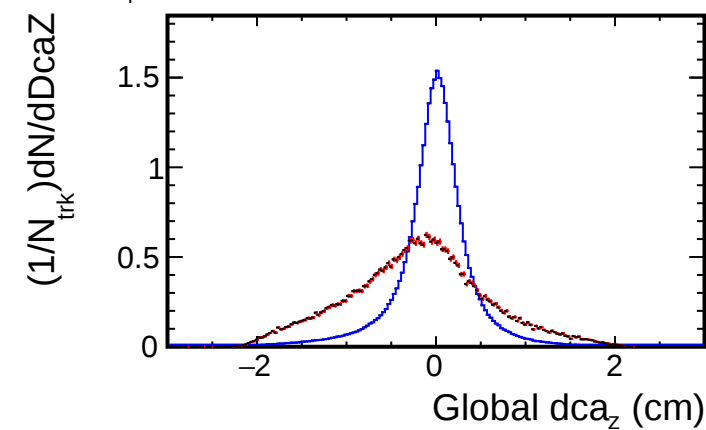


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

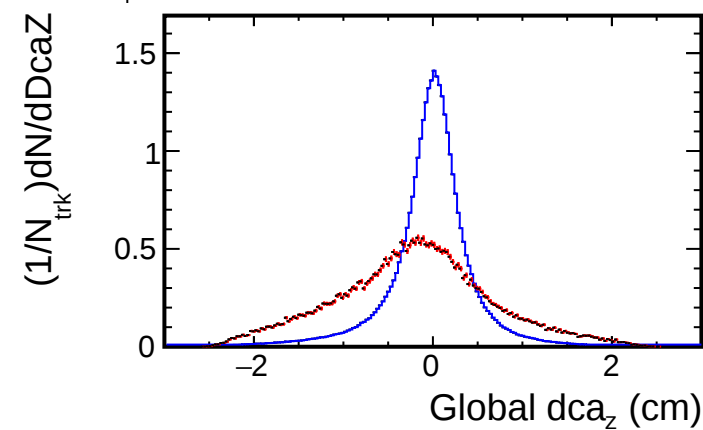
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

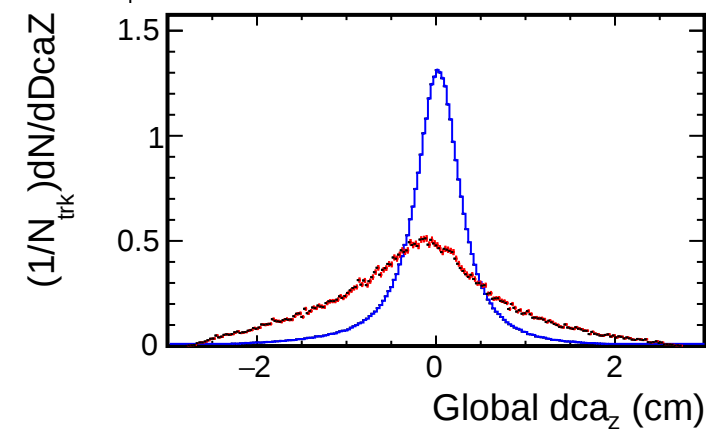
1.8, $0.1 < p_T < 0.5$ (GeV/c)



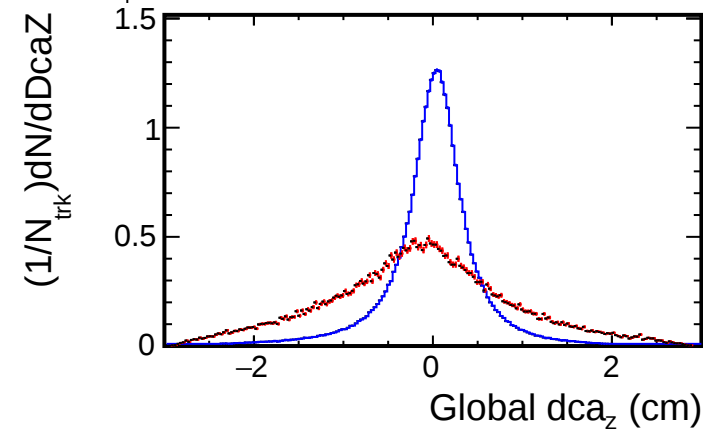
1.6, $0.1 < p_T < 0.5$ (GeV/c)



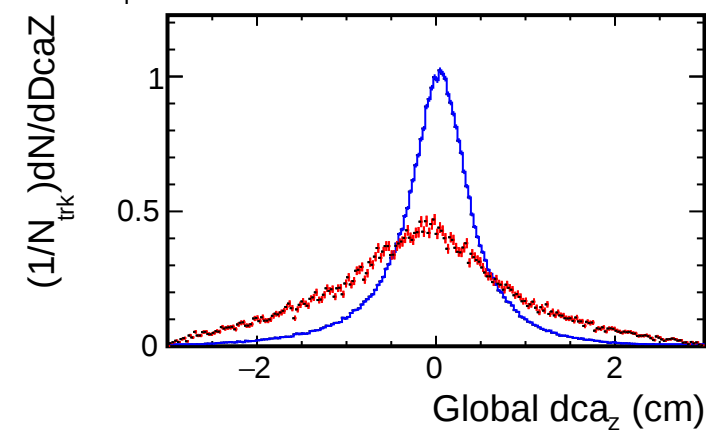
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



1.0, $0.1 < p_T < 0.5$ (GeV/c)

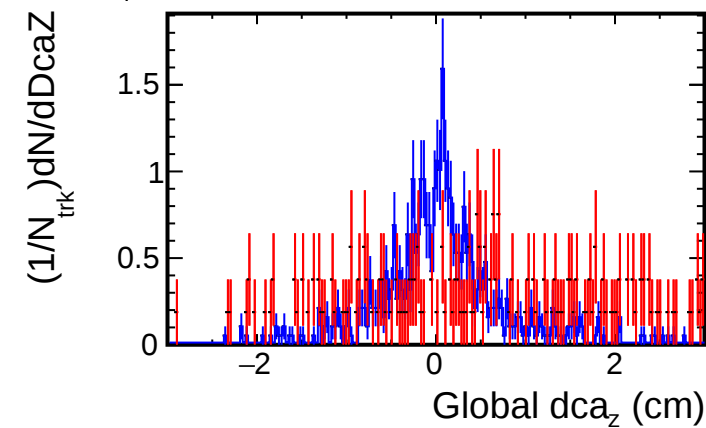


— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

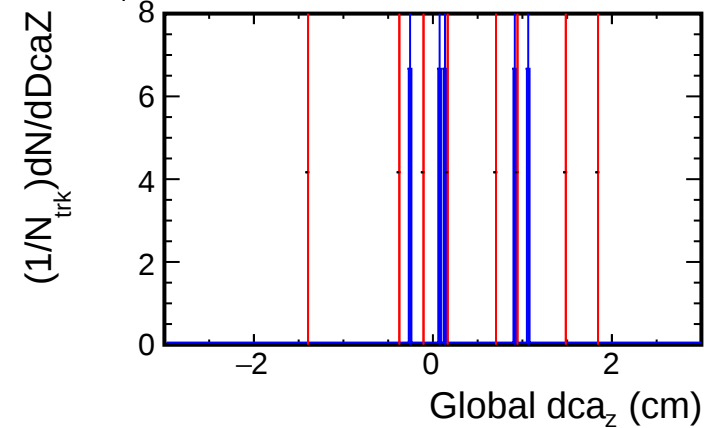
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

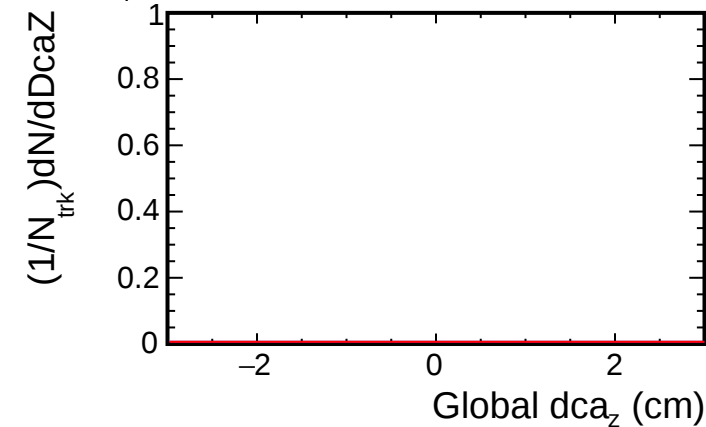
2, $0.1 < p_T < 0.5$ (GeV/c)



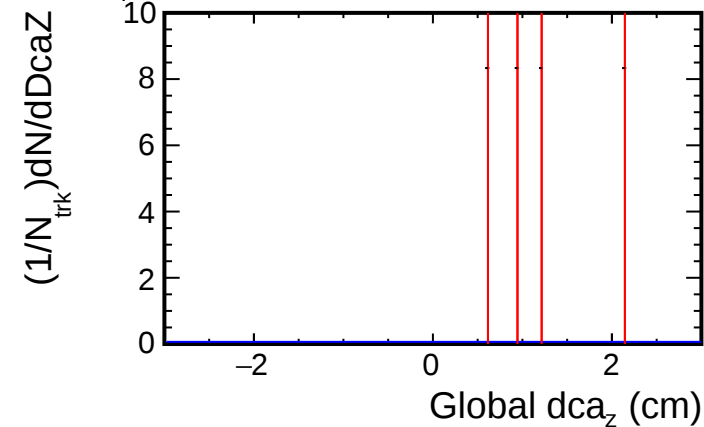
4, $0.1 < p_T < 0.5$ (GeV/c)



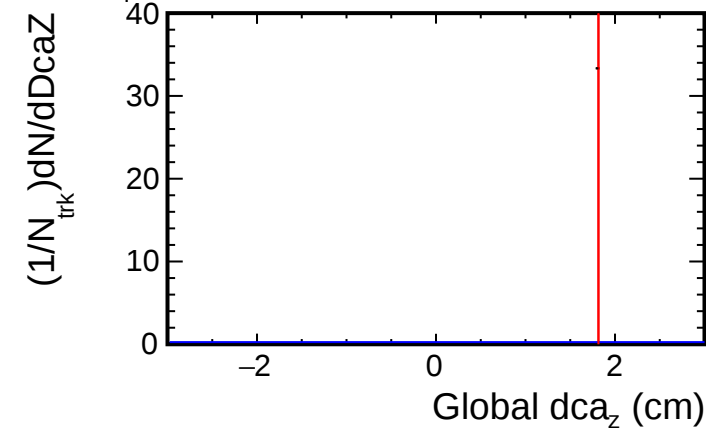
6, $0.1 < p_T < 0.5$ (GeV/c)



8, $0.1 < p_T < 0.5$ (GeV/c)



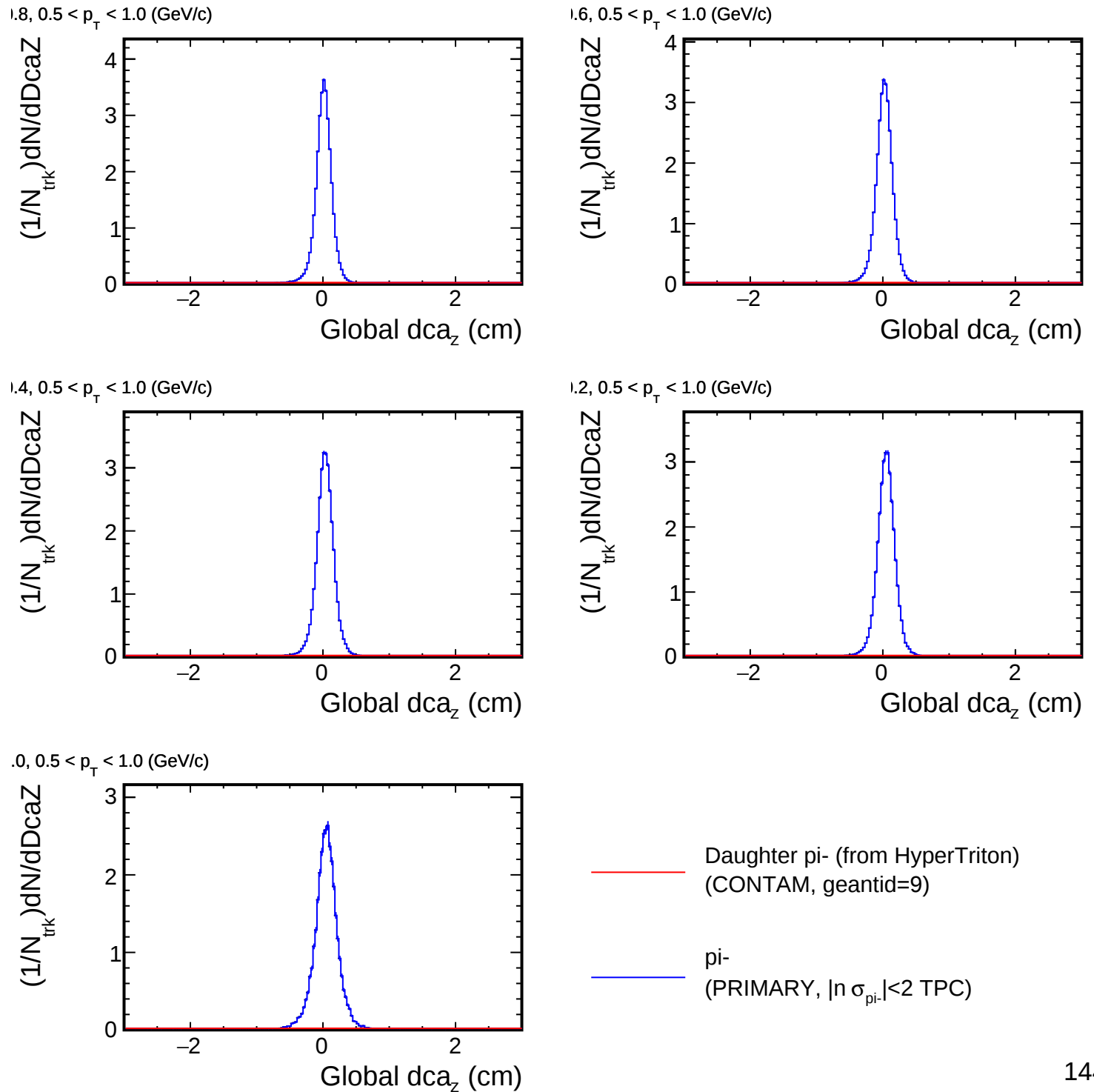
0, $0.1 < p_T < 0.5$ (GeV/c)



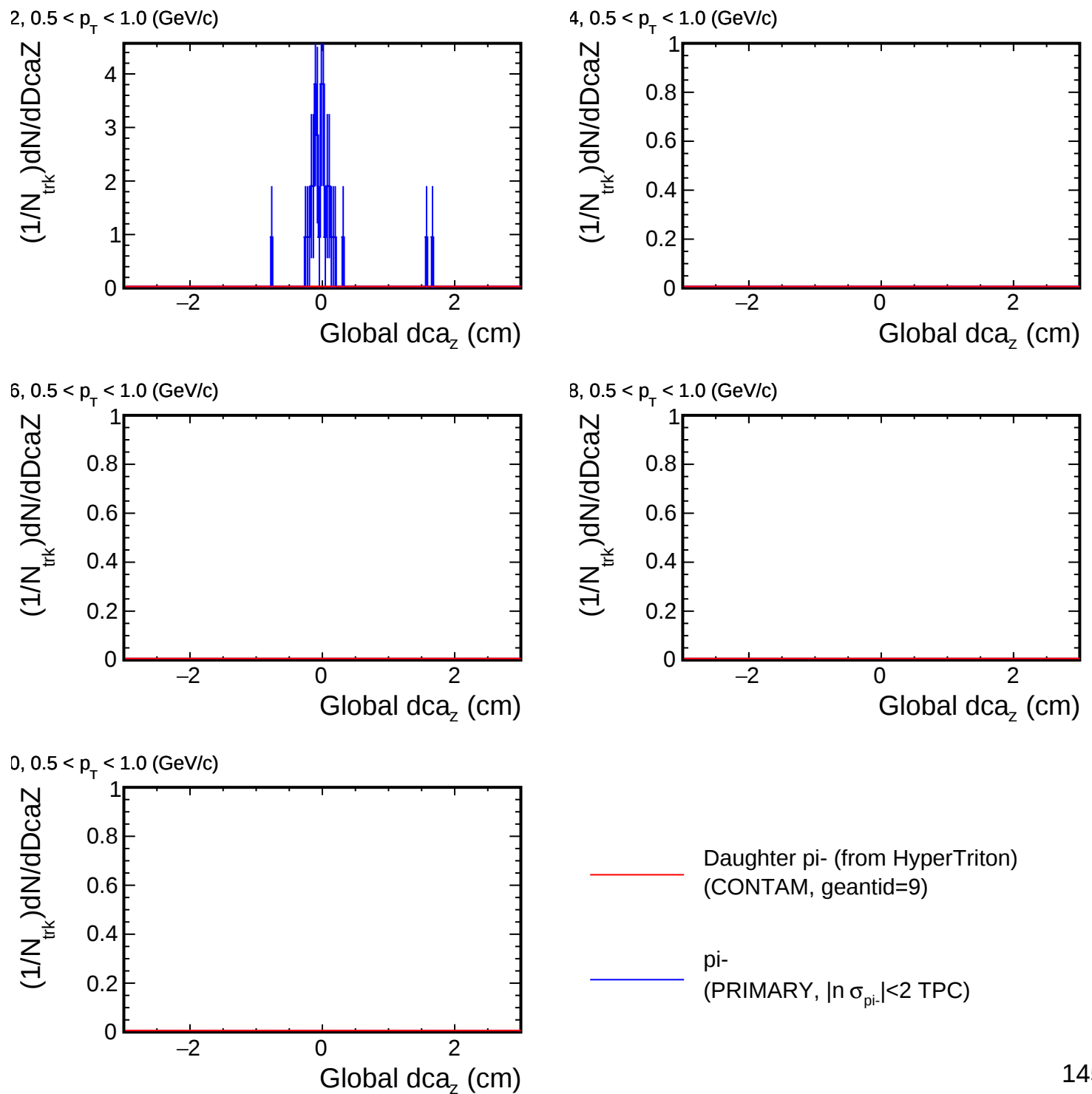
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

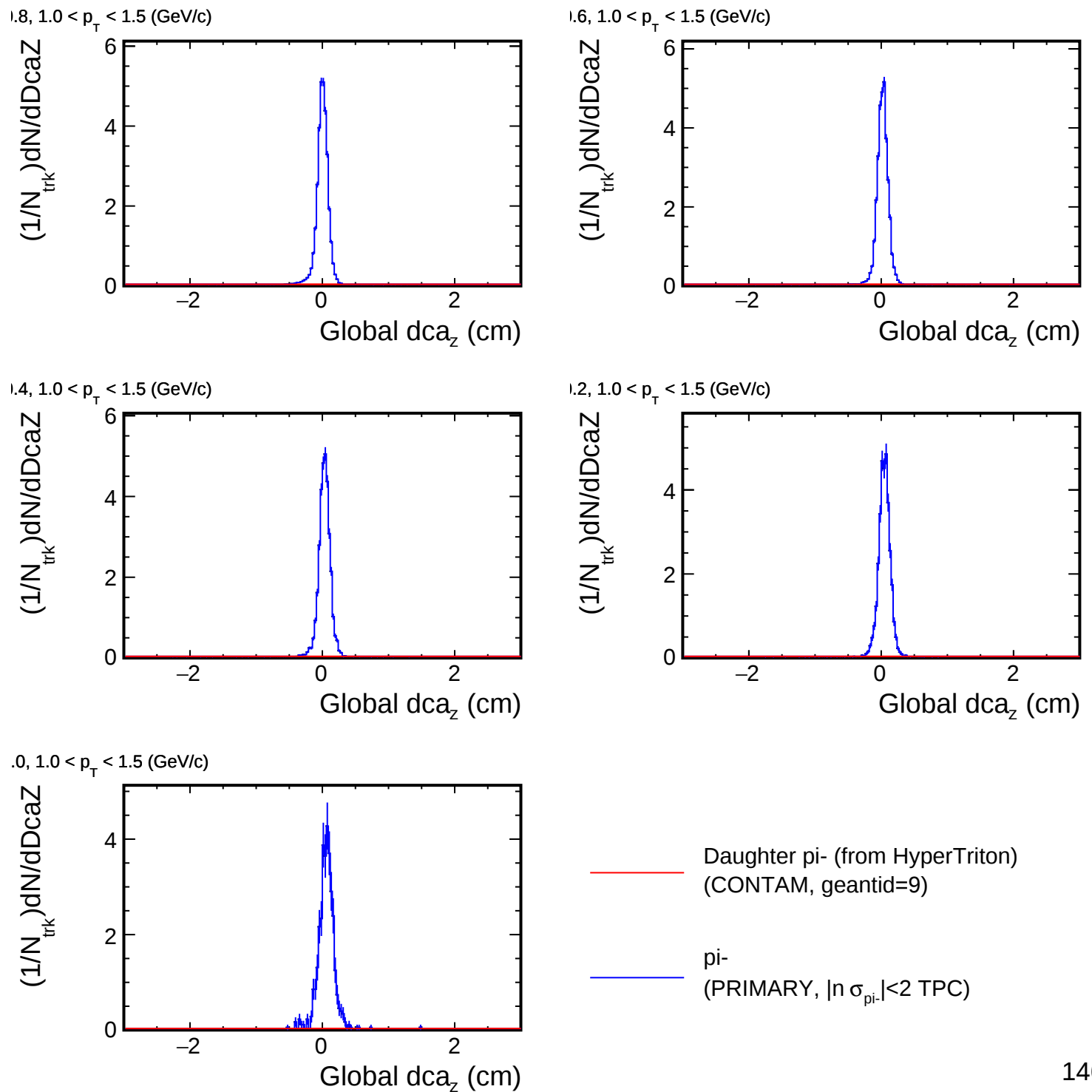
DcaZ distribution for (p_T , η) slices



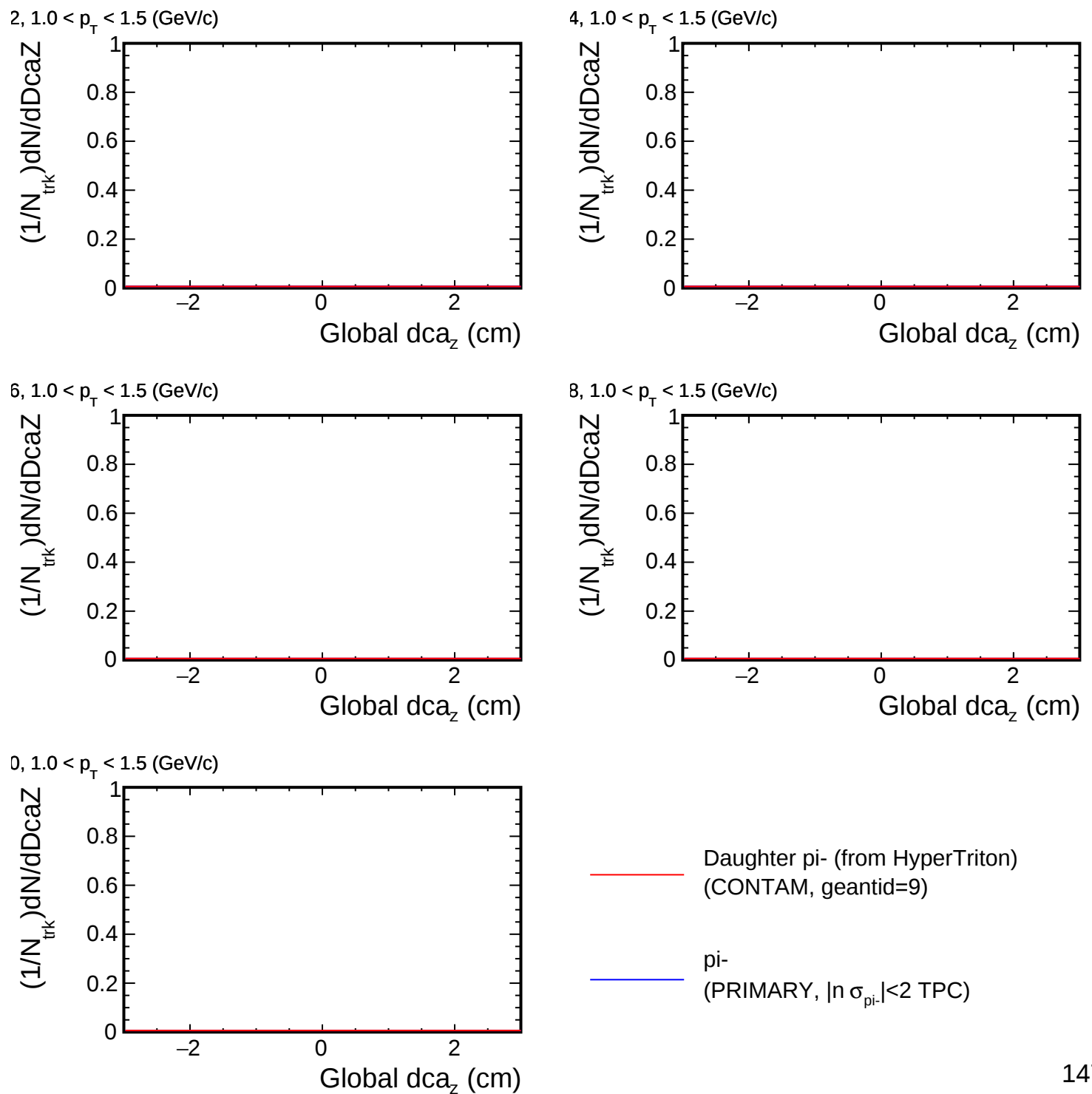
DcaZ distribution for (p_T , η) slices



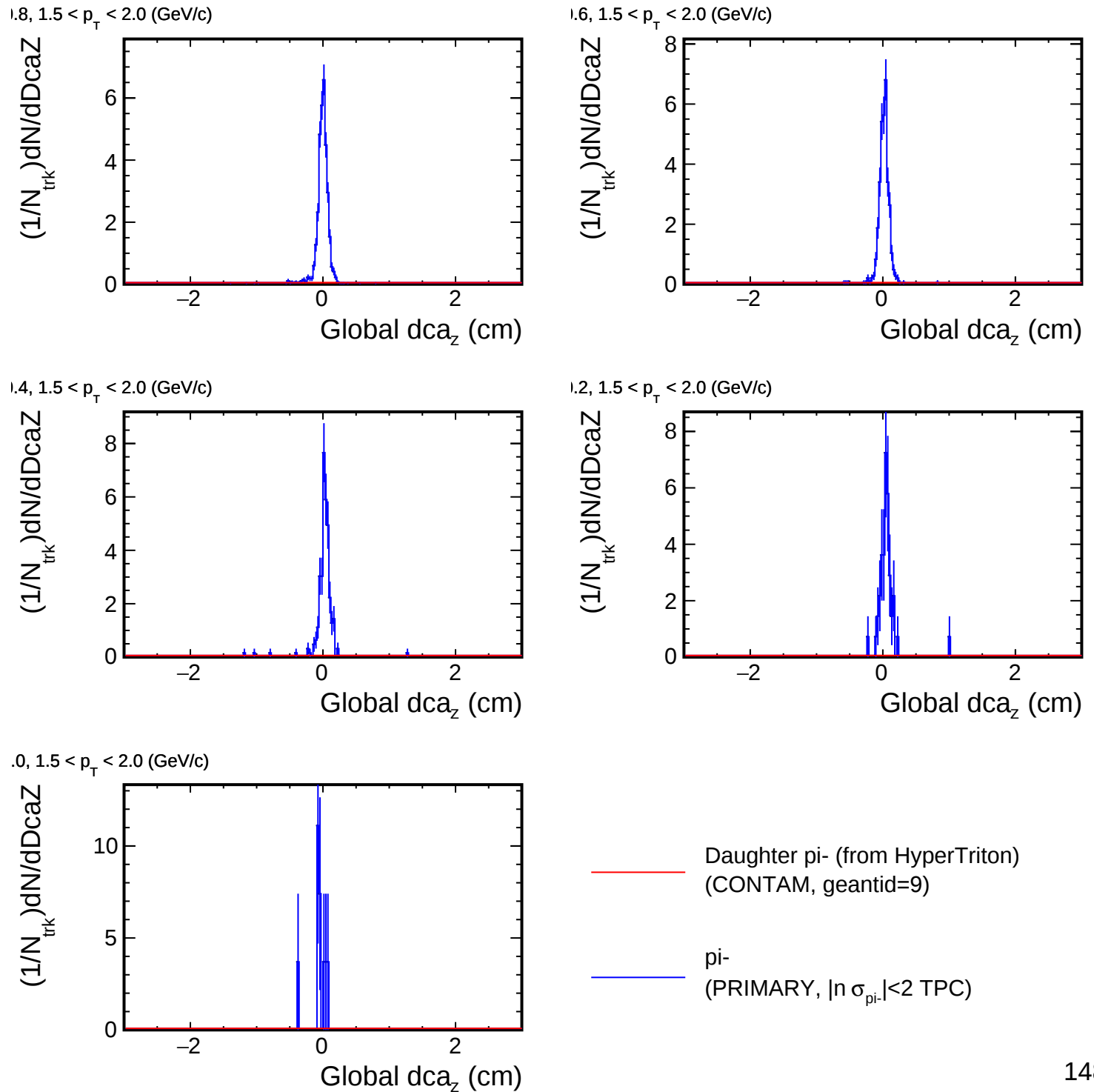
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

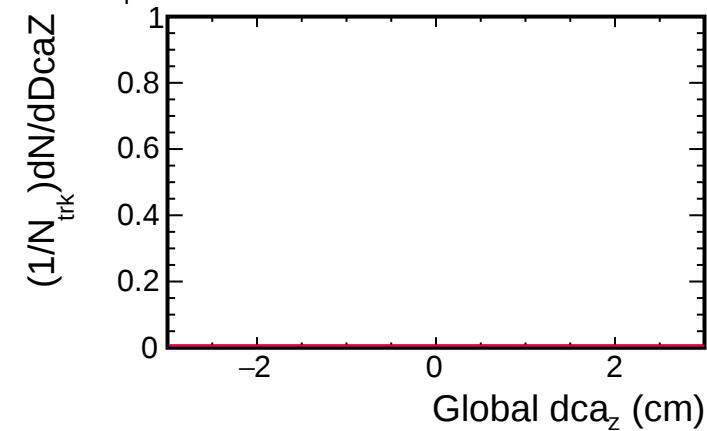


DcaZ distribution for (p_T , η) slices

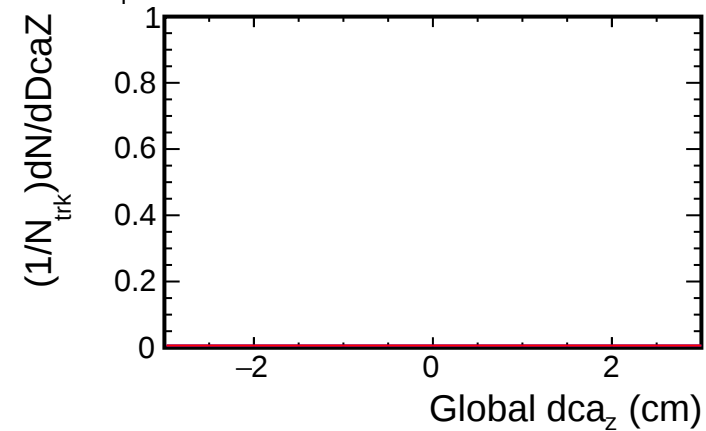


DcaZ distribution for (p_T , η) slices

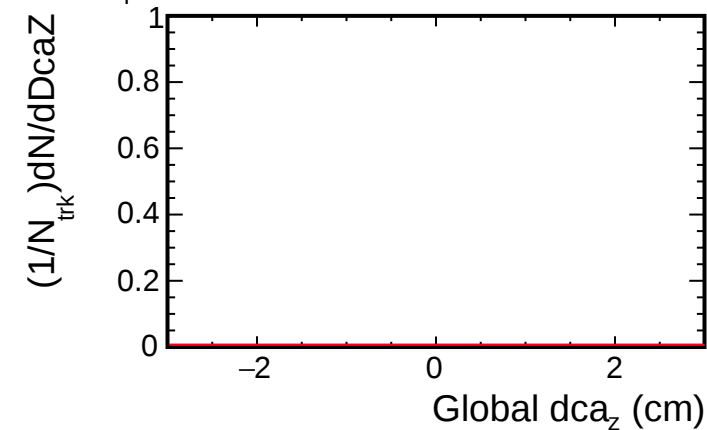
2, $1.5 < p_T < 2.0$ (GeV/c)



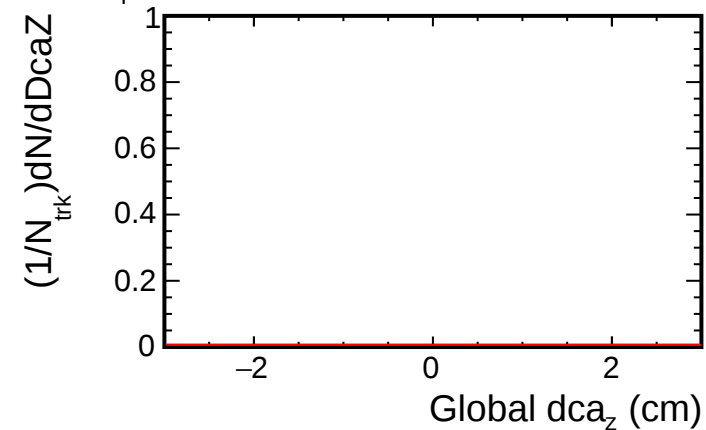
4, $1.5 < p_T < 2.0$ (GeV/c)



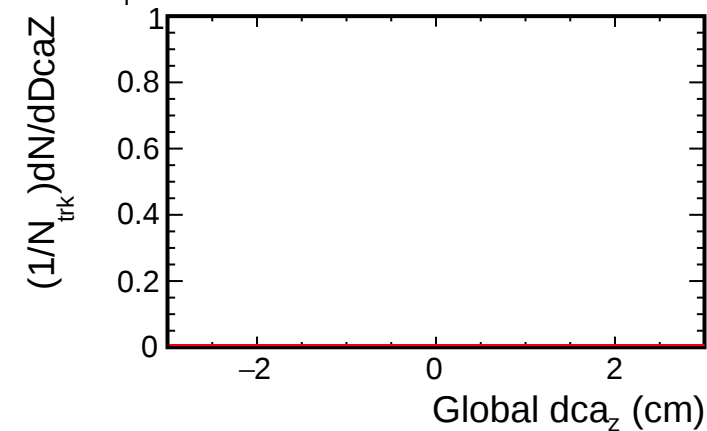
6, $1.5 < p_T < 2.0$ (GeV/c)



8, $1.5 < p_T < 2.0$ (GeV/c)



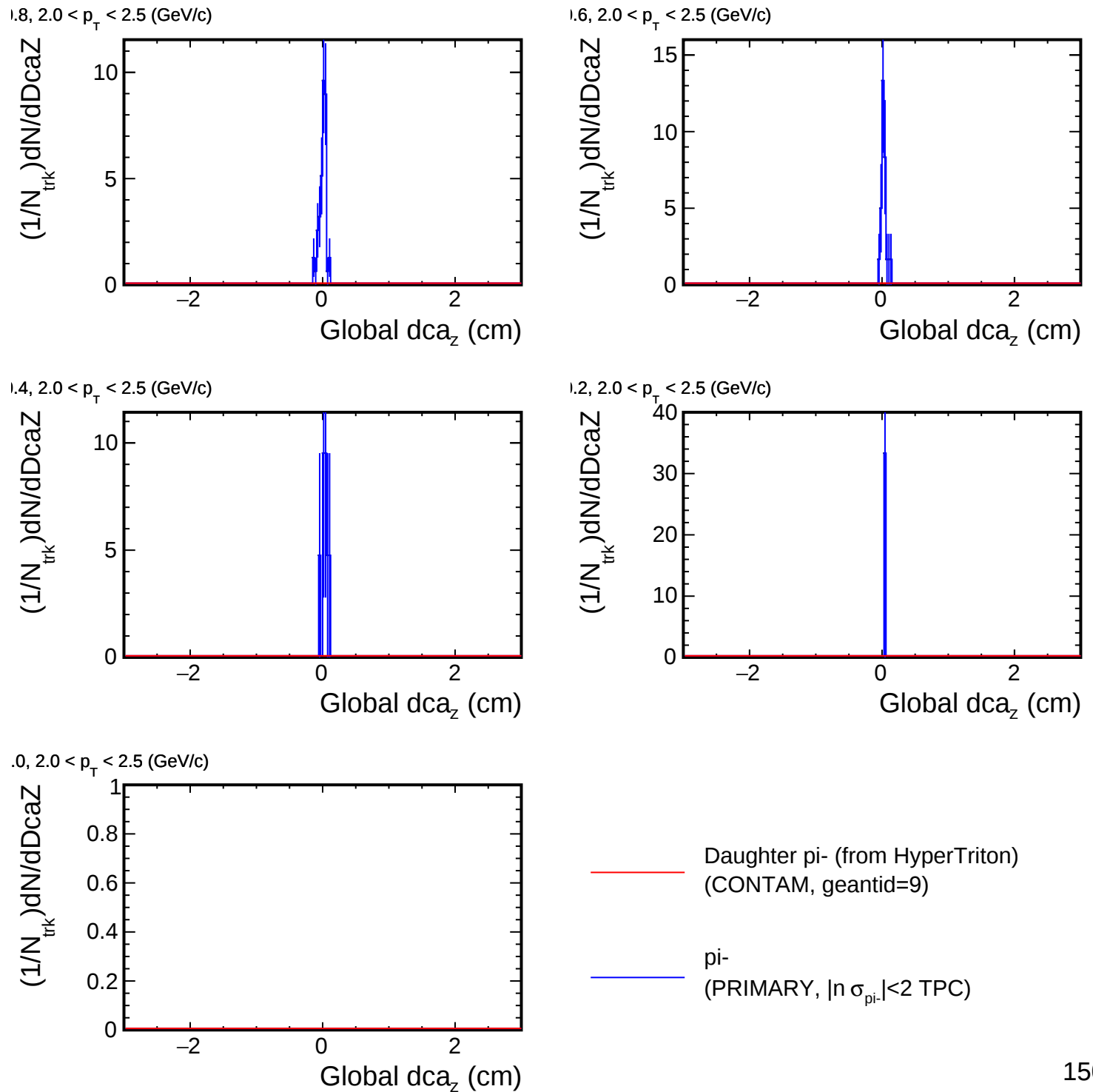
0, $1.5 < p_T < 2.0$ (GeV/c)



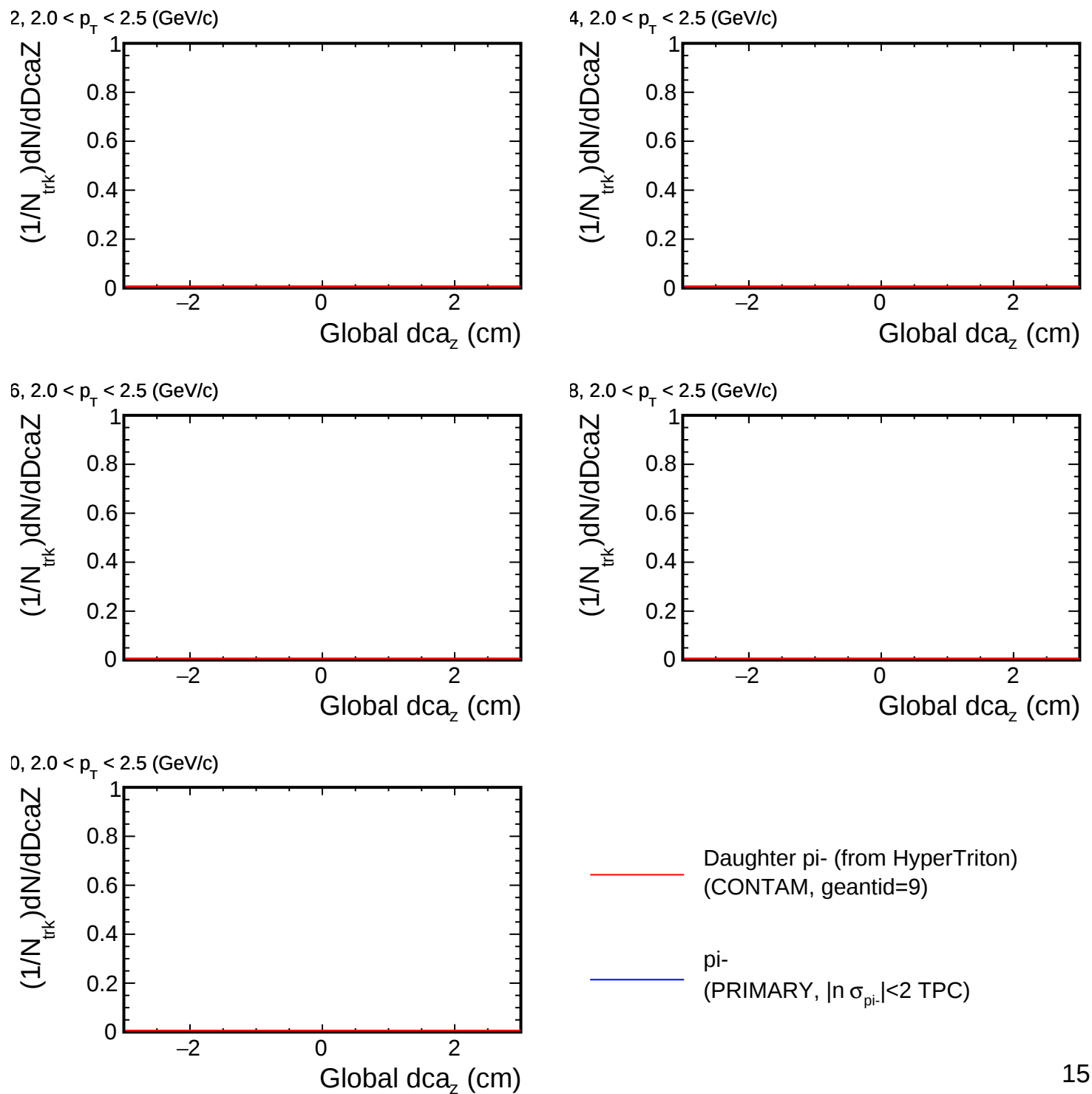
— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

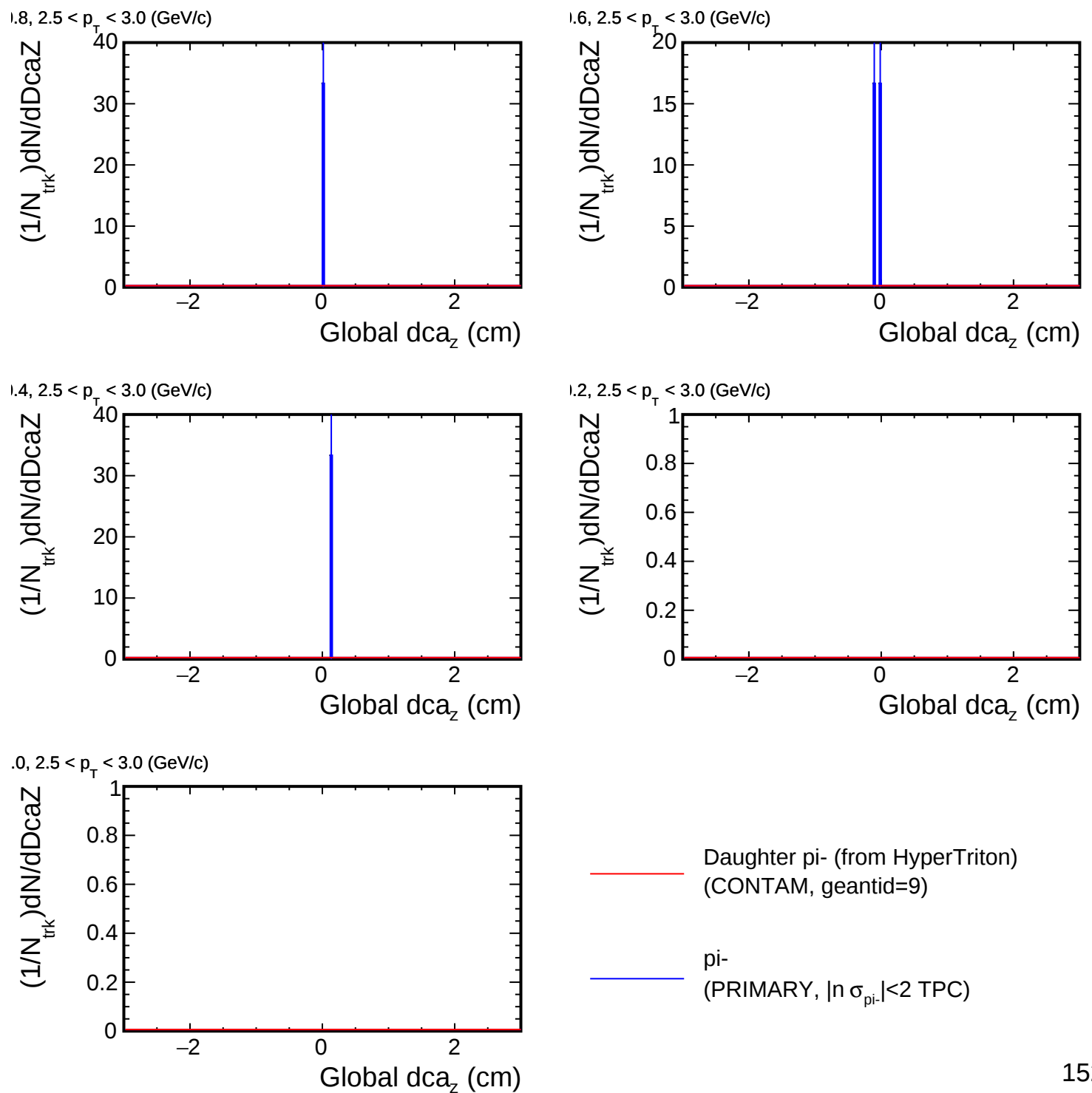
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

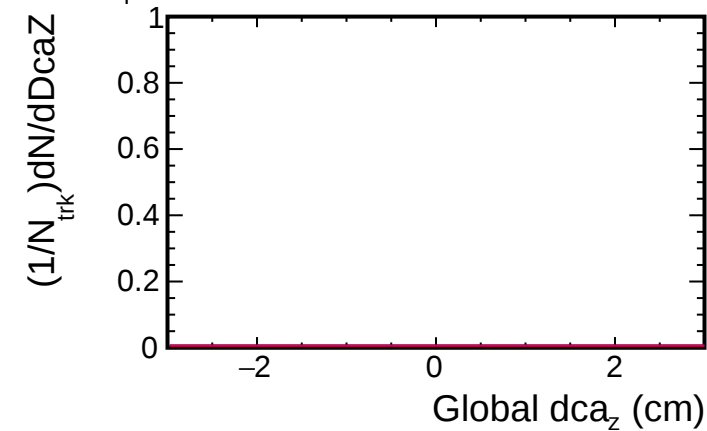


DcaZ distribution for (p_T , η) slices

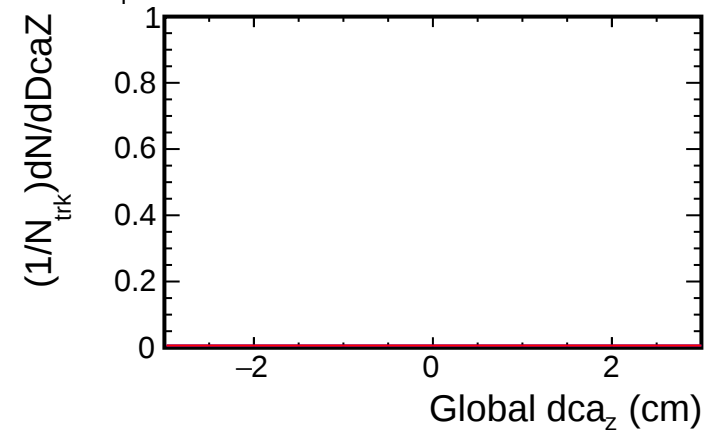


DcaZ distribution for (p_T , η) slices

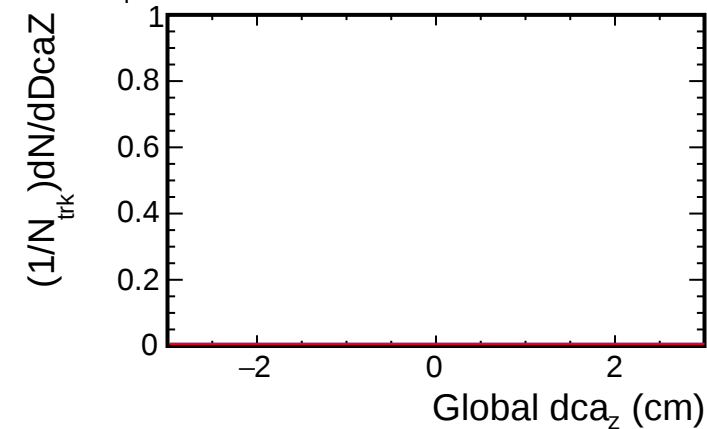
2, $2.5 < p_T < 3.0$ (GeV/c)



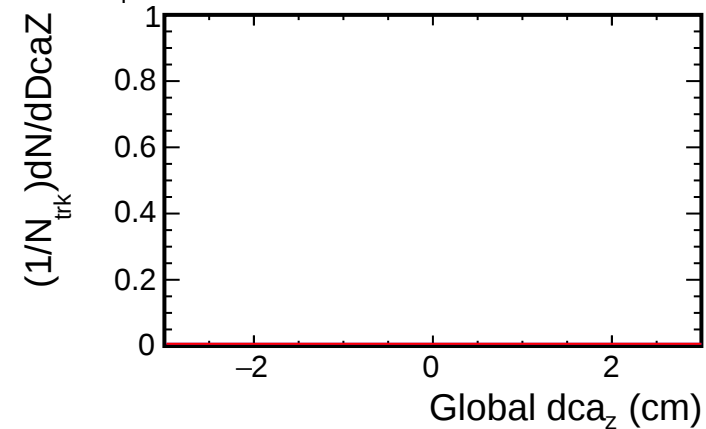
4, $2.5 < p_T < 3.0$ (GeV/c)



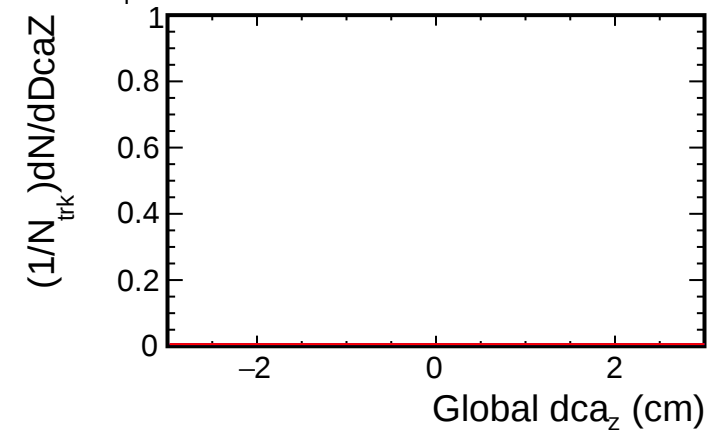
6, $2.5 < p_T < 3.0$ (GeV/c)



8, $2.5 < p_T < 3.0$ (GeV/c)



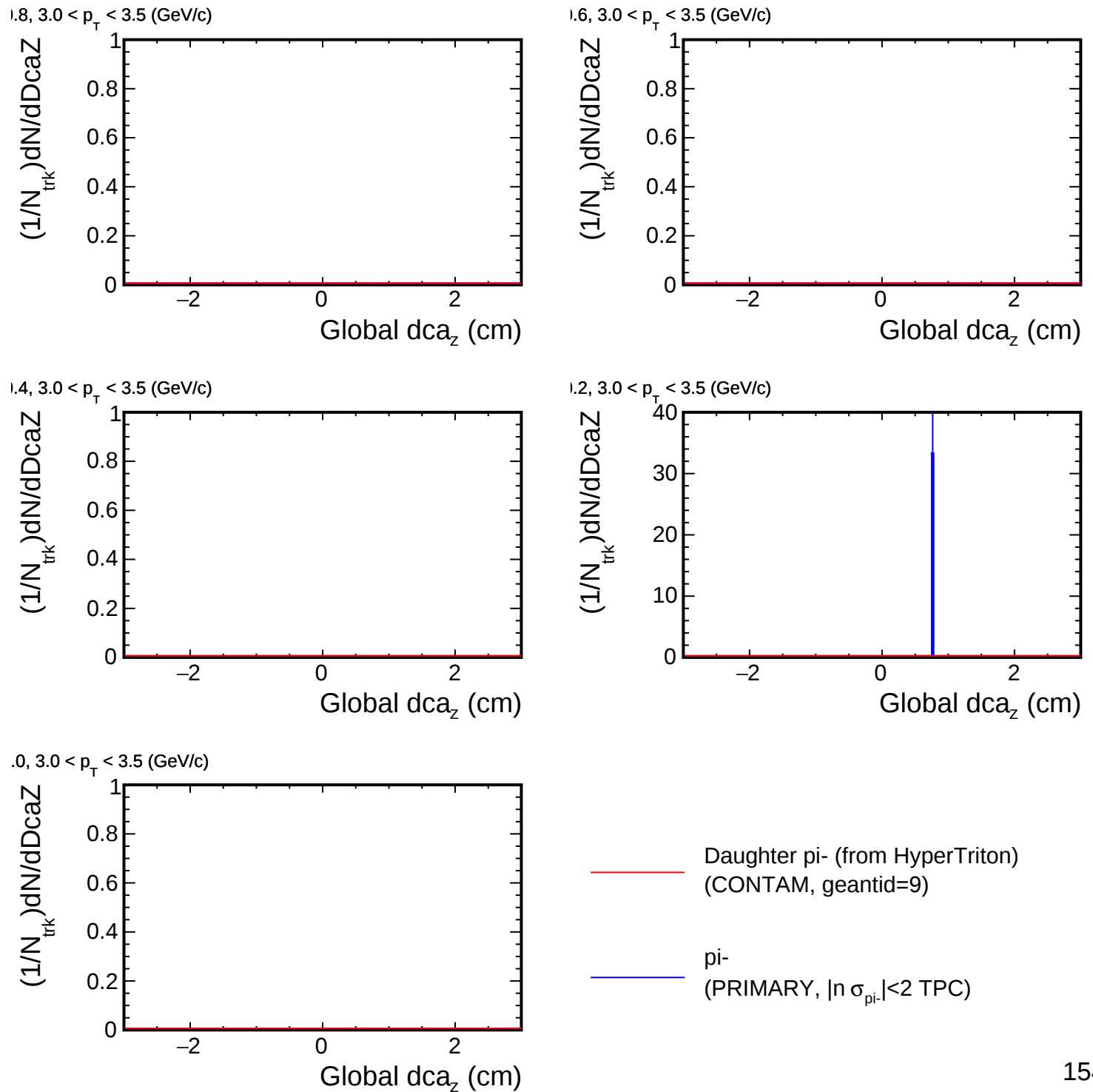
0, $2.5 < p_T < 3.0$ (GeV/c)



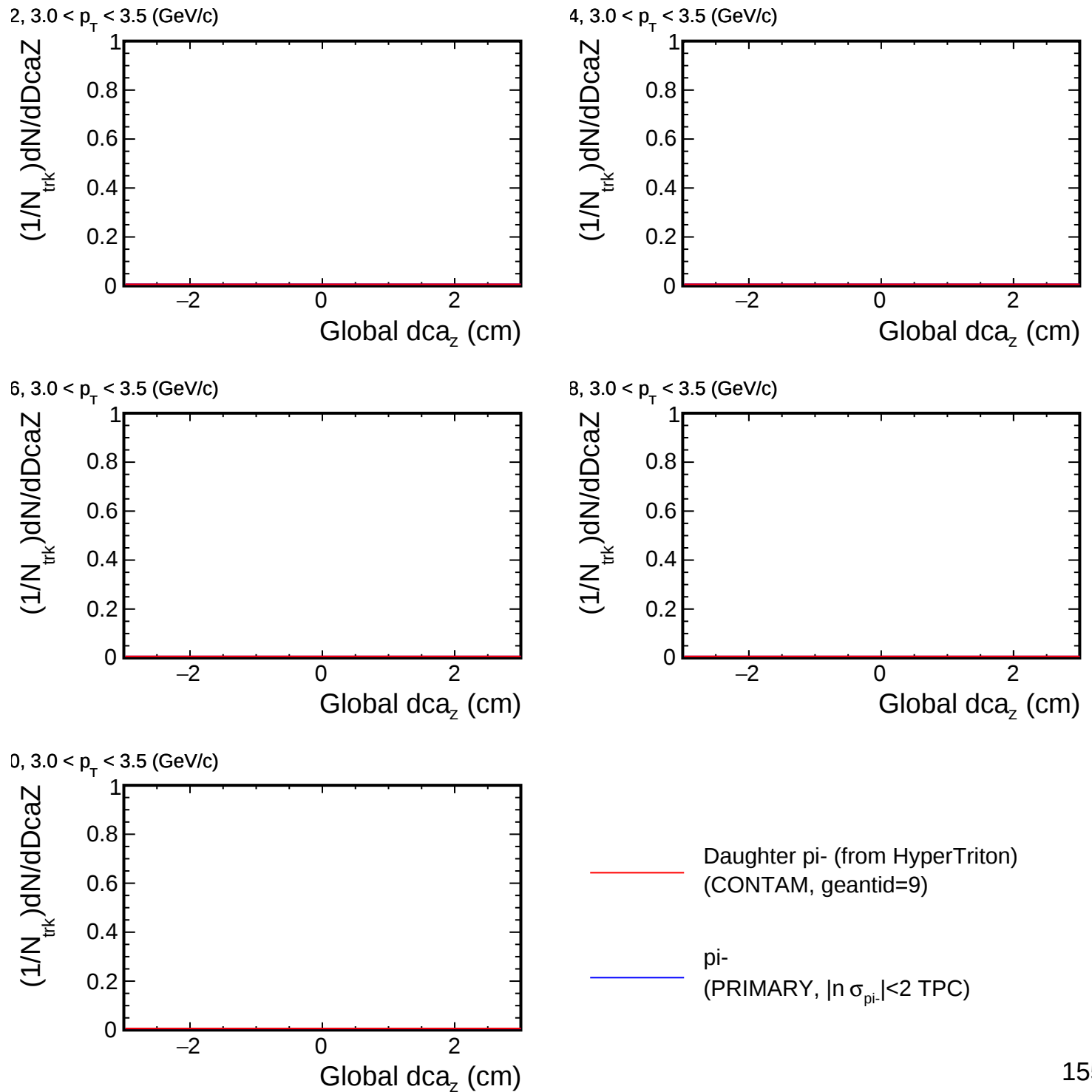
— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

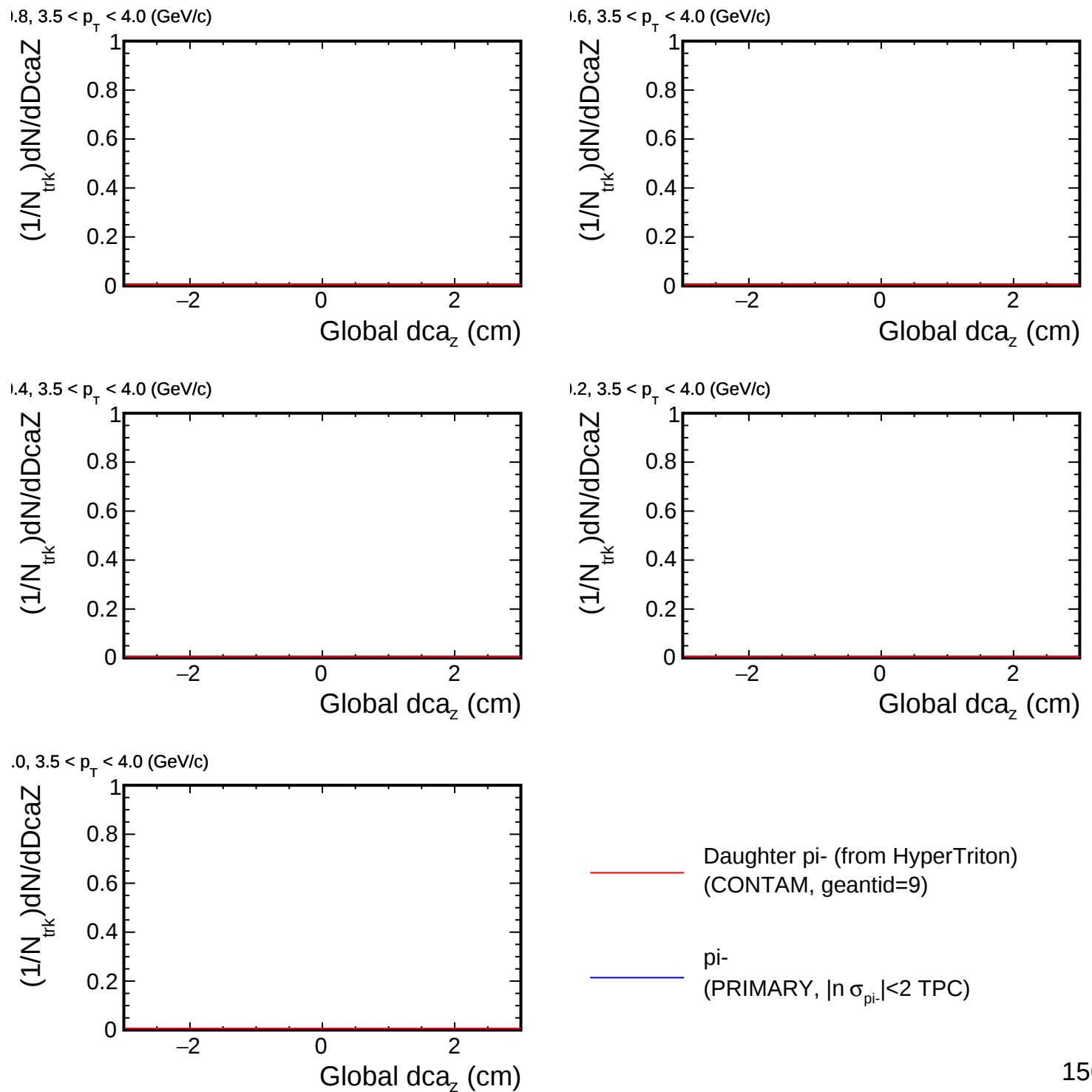
DcaZ distribution for (p_T , η) slices



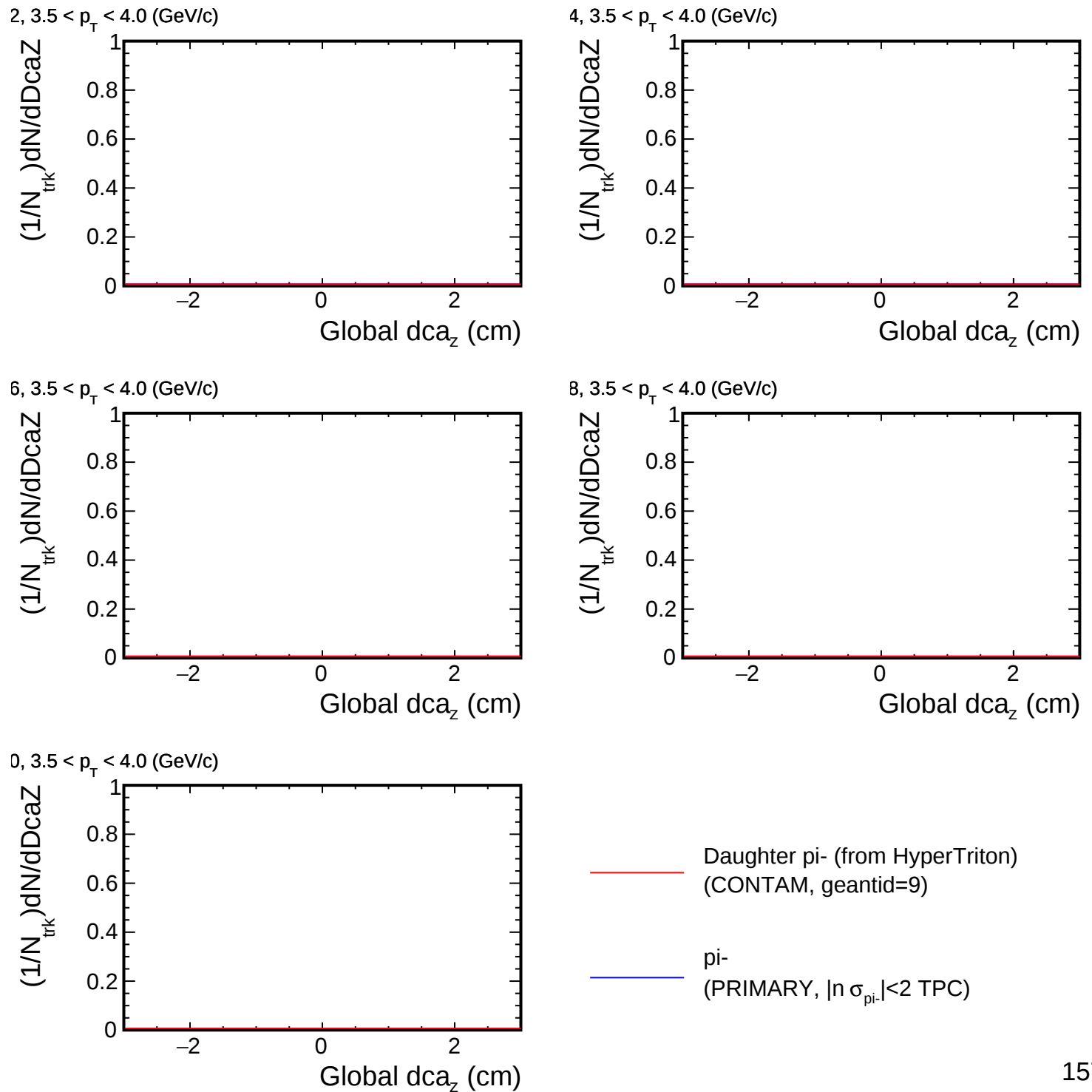
DcaZ distribution for (p_T , η) slices



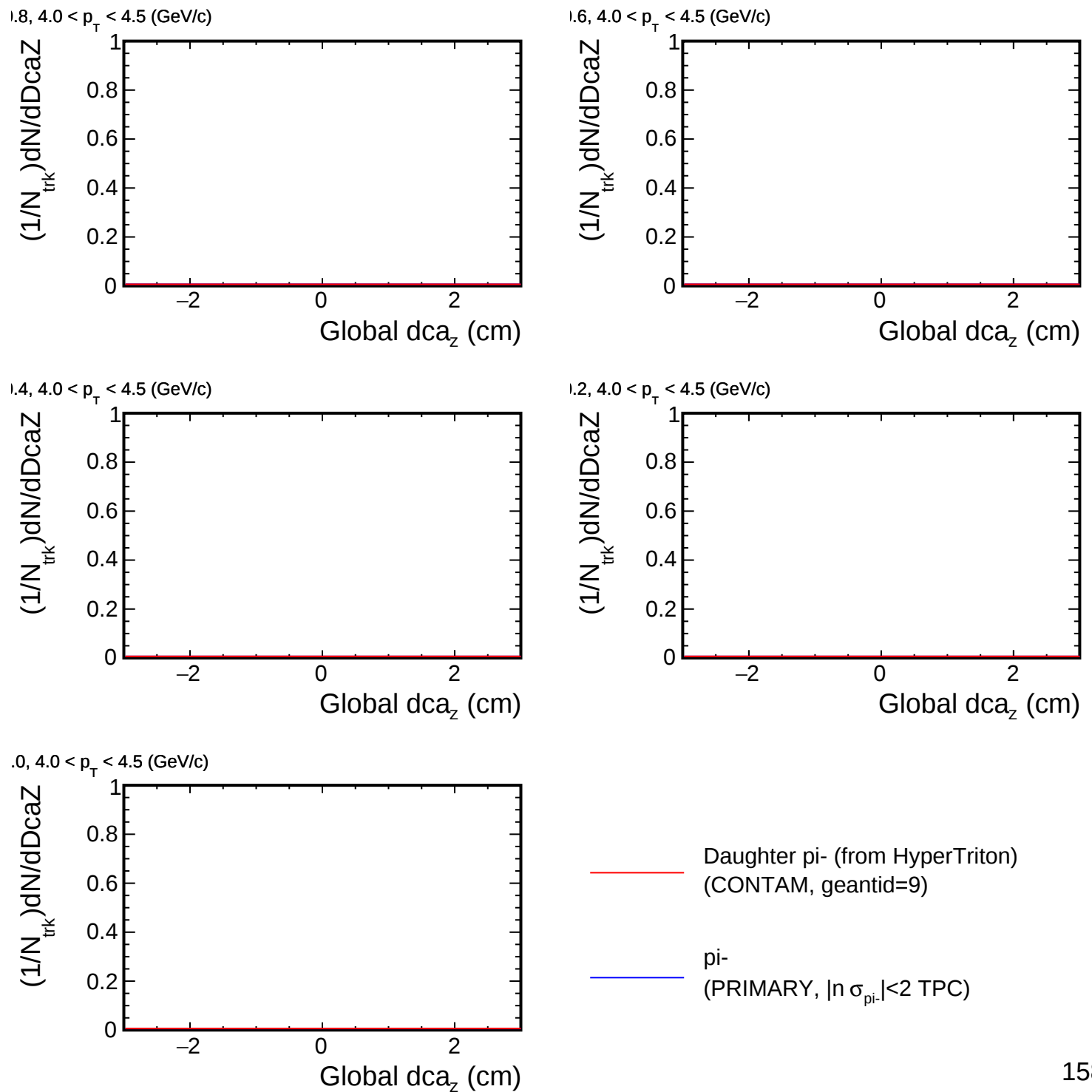
DcaZ distribution for (p_T , η) slices



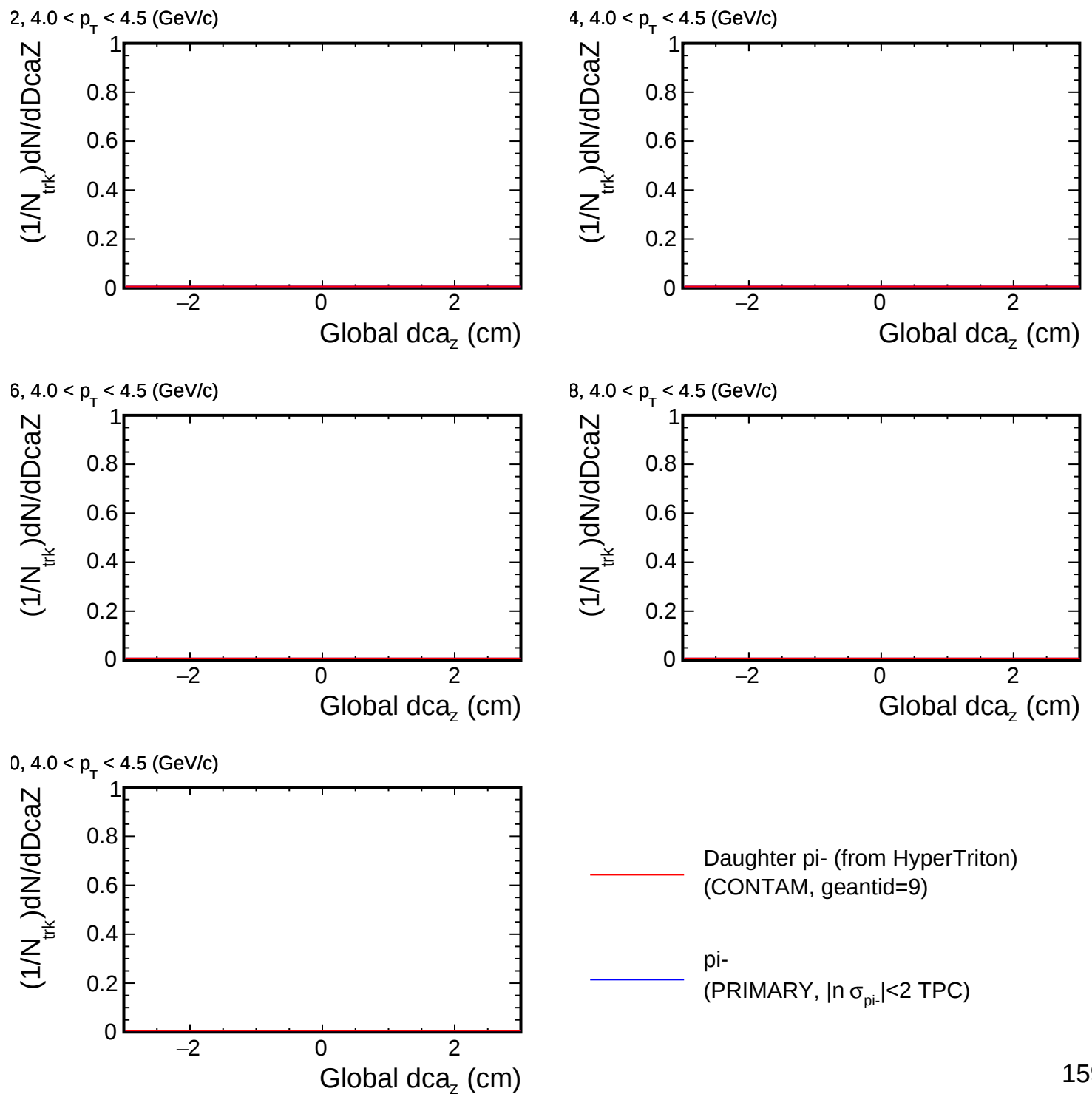
DcaZ distribution for (p_T , η) slices



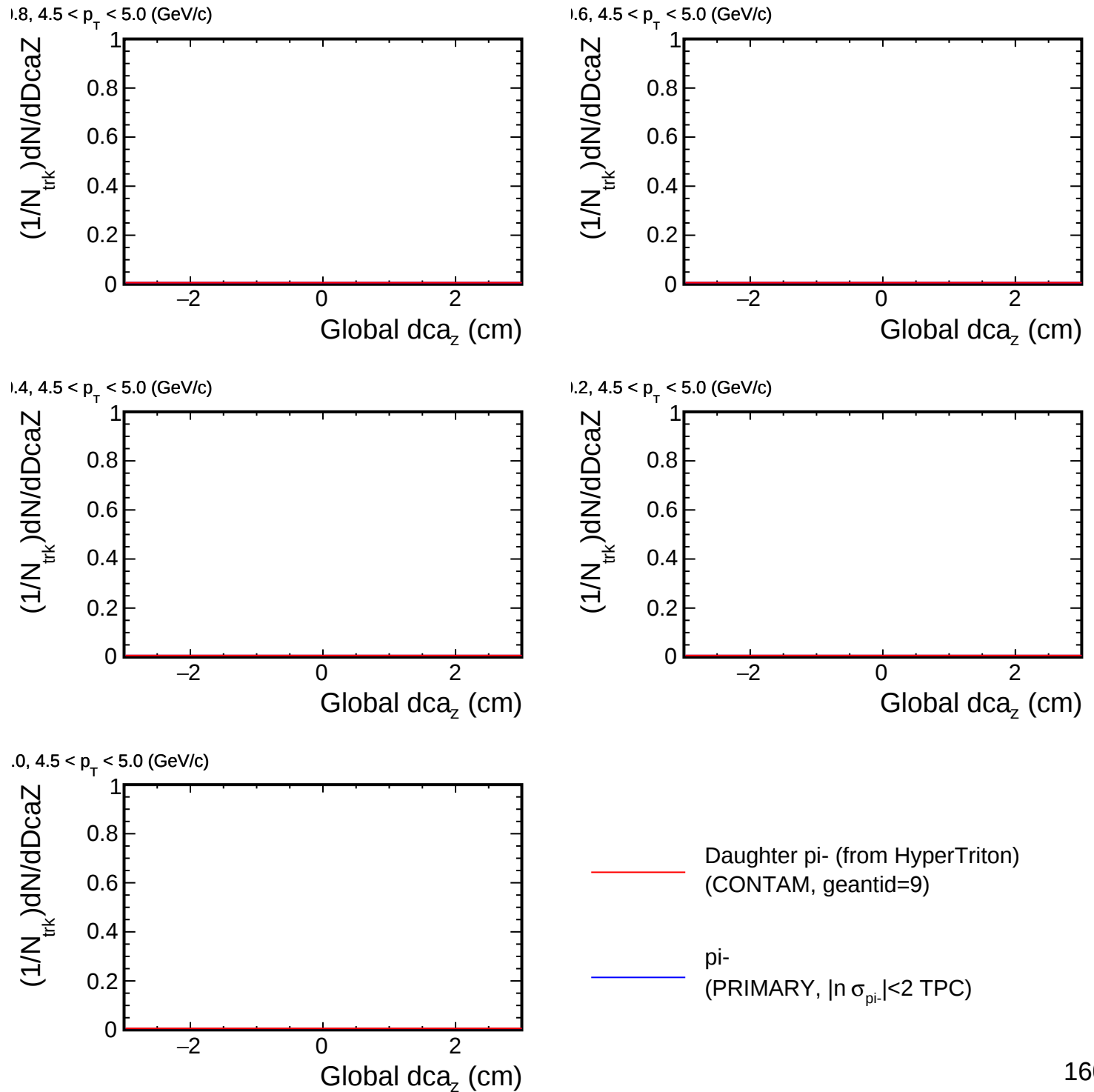
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

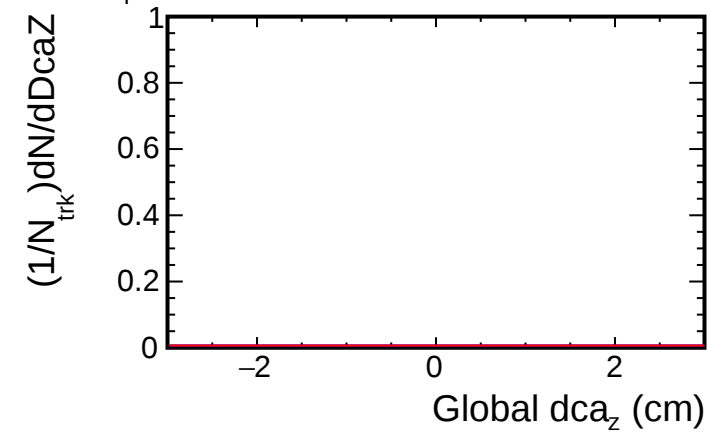


DcaZ distribution for (p_T , η) slices

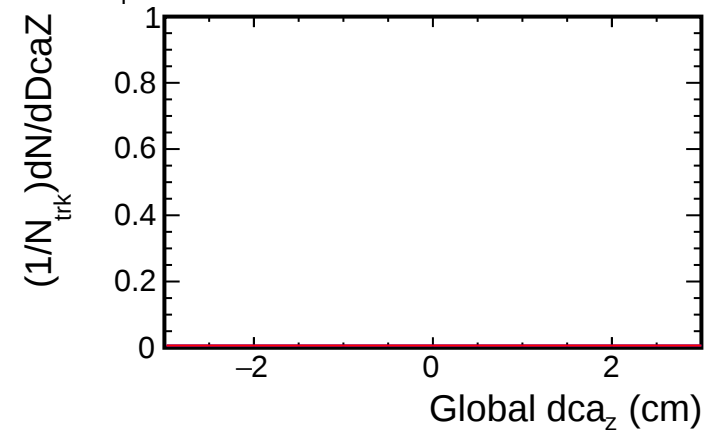


DcaZ distribution for (p_T , η) slices

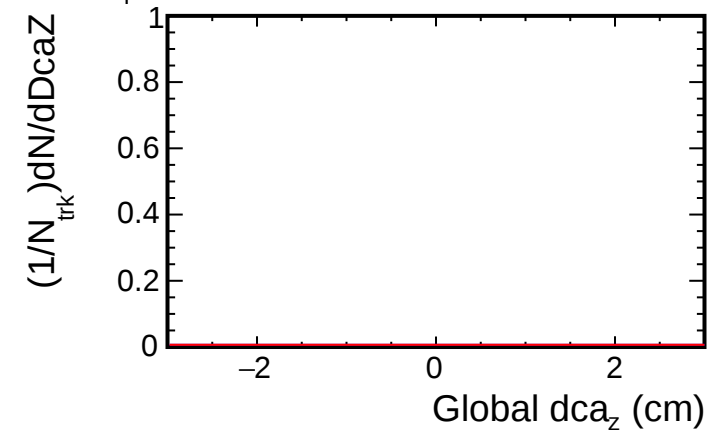
2, $4.5 < p_T < 5.0$ (GeV/c)



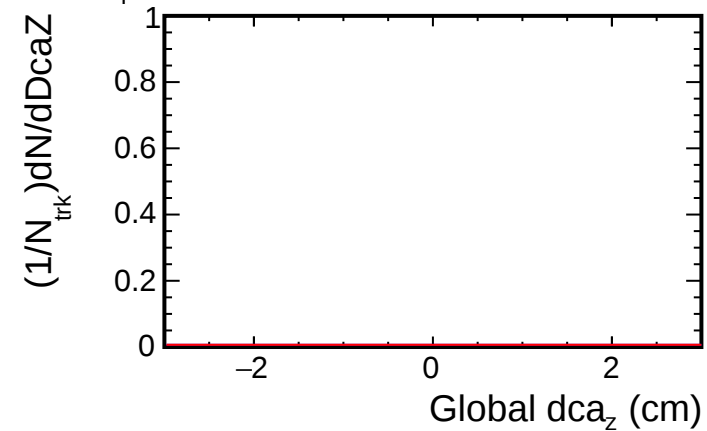
4, $4.5 < p_T < 5.0$ (GeV/c)



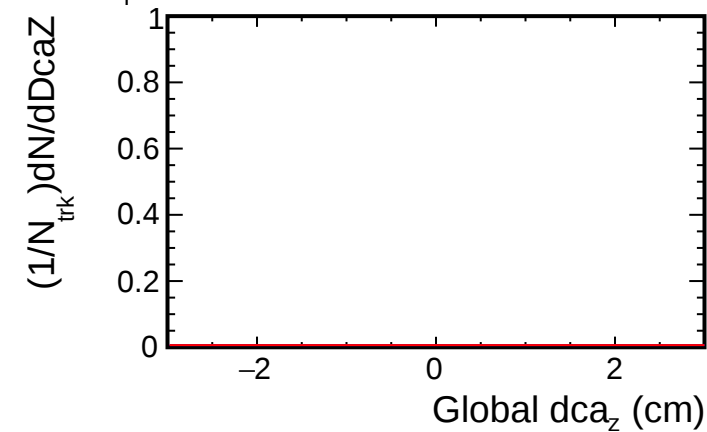
6, $4.5 < p_T < 5.0$ (GeV/c)



8, $4.5 < p_T < 5.0$ (GeV/c)



0, $4.5 < p_T < 5.0$ (GeV/c)

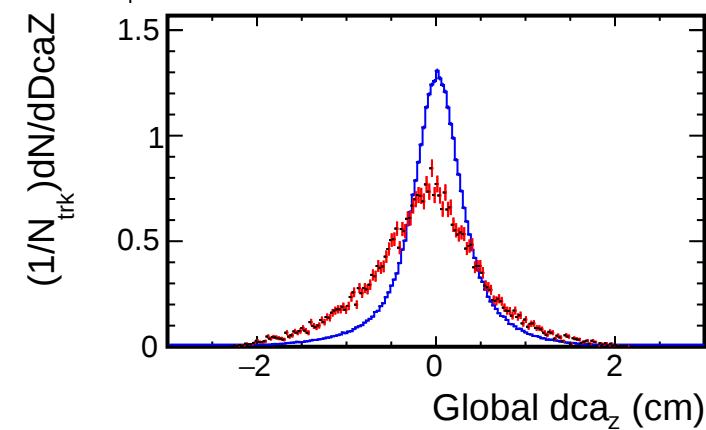


— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

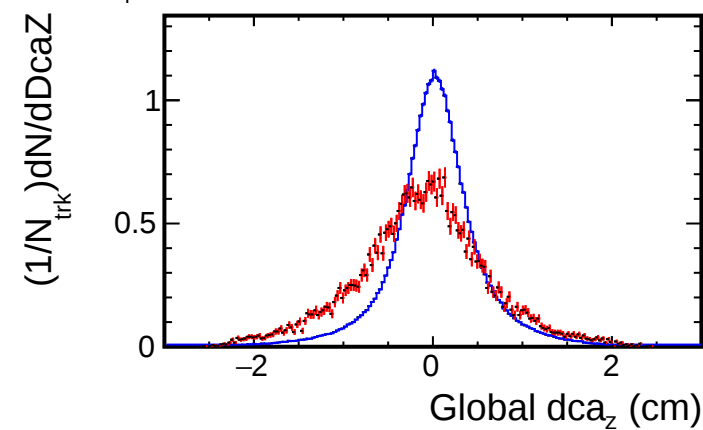
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

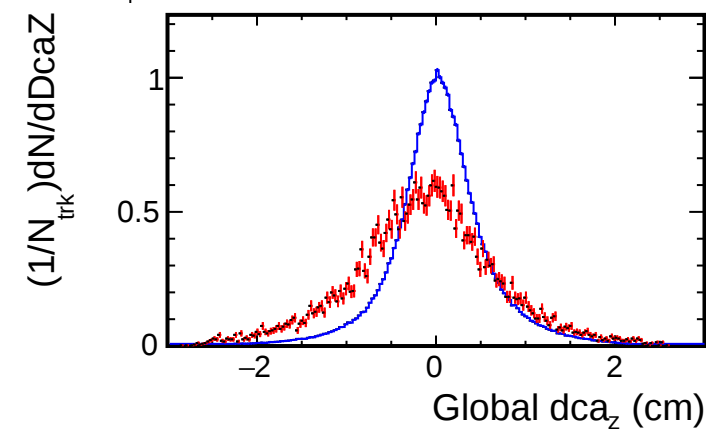
1.8, $0.1 < p_T < 0.5$ (GeV/c)



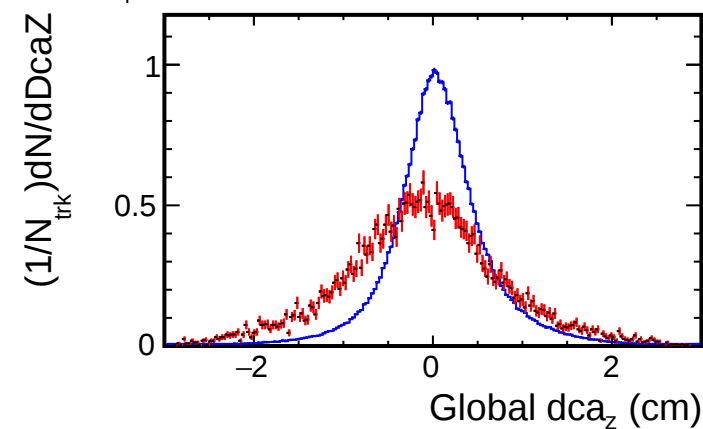
1.6, $0.1 < p_T < 0.5$ (GeV/c)



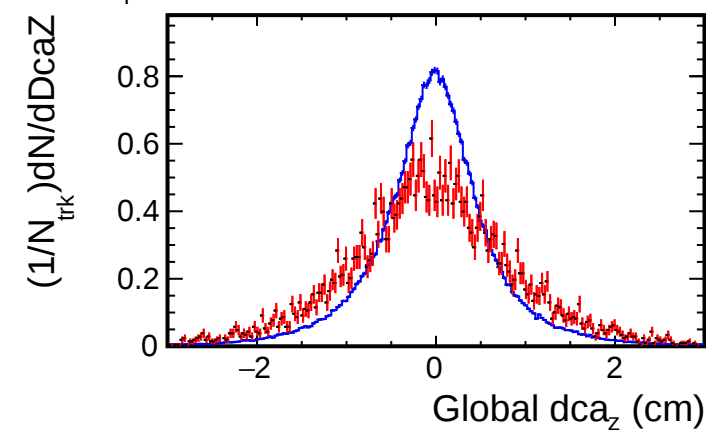
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



1.0, $0.1 < p_T < 0.5$ (GeV/c)

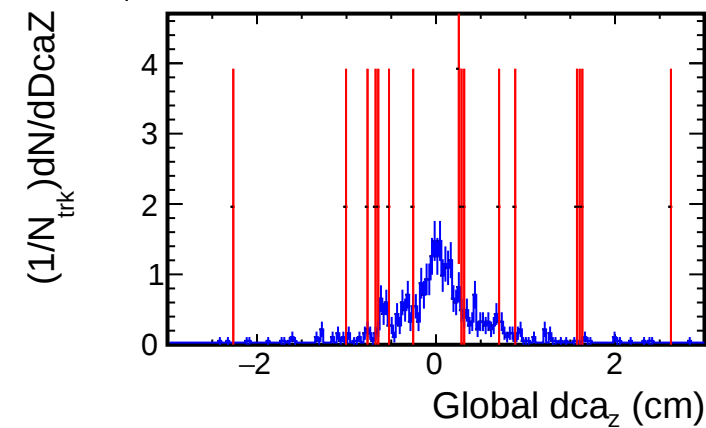


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

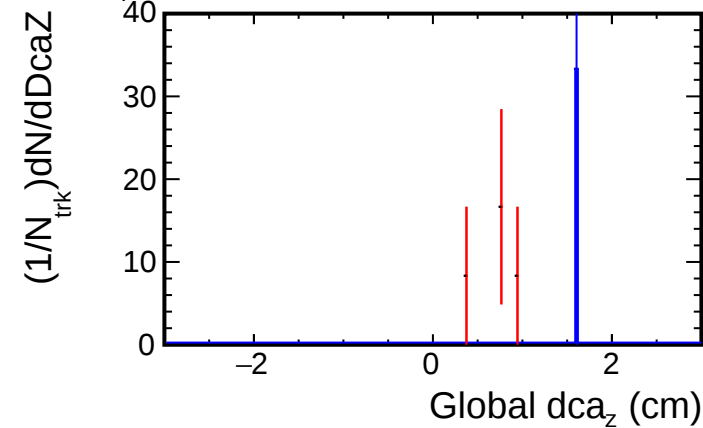
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

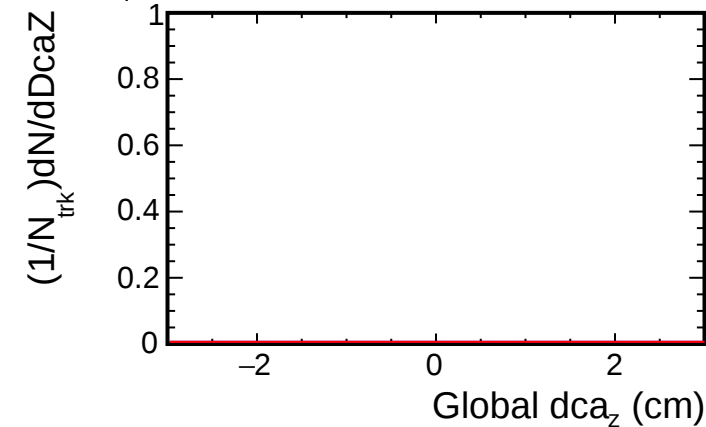
2, $0.1 < p_T < 0.5$ (GeV/c)



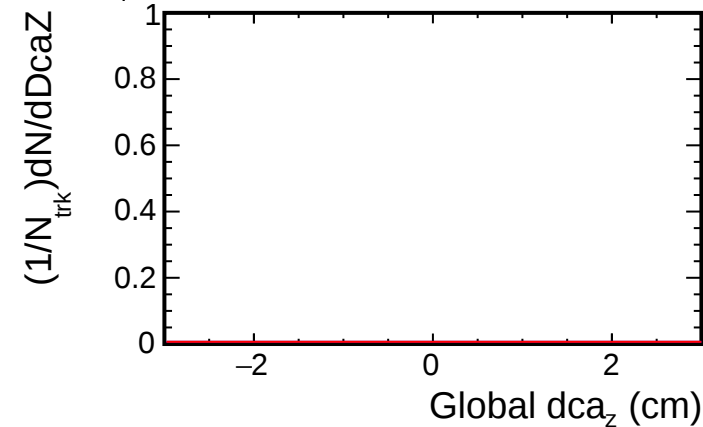
4, $0.1 < p_T < 0.5$ (GeV/c)



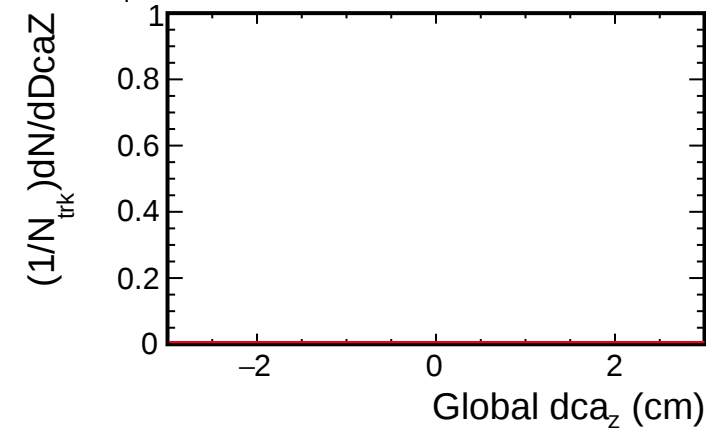
6, $0.1 < p_T < 0.5$ (GeV/c)



8, $0.1 < p_T < 0.5$ (GeV/c)



0, $0.1 < p_T < 0.5$ (GeV/c)

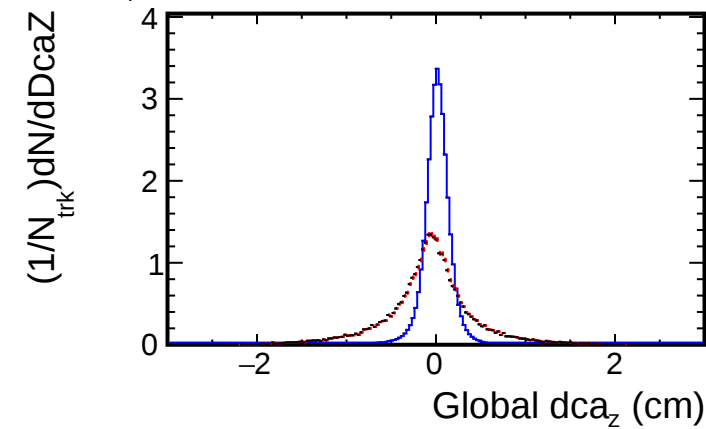


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

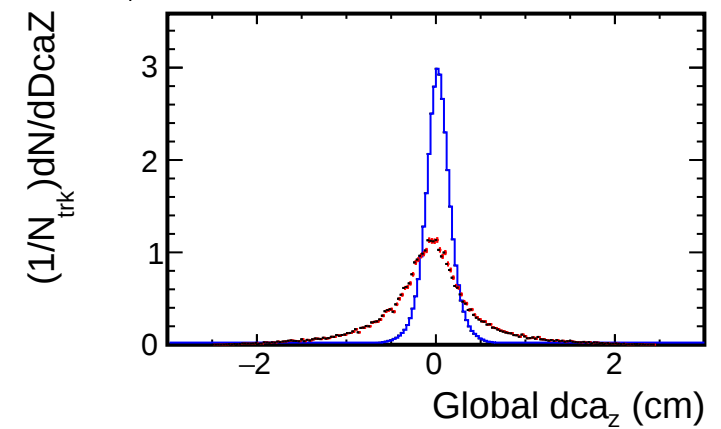
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

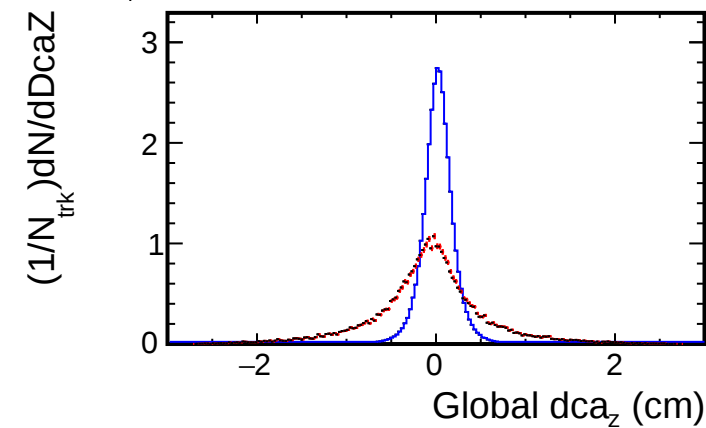
1.8, $0.5 < p_T < 1.0$ (GeV/c)



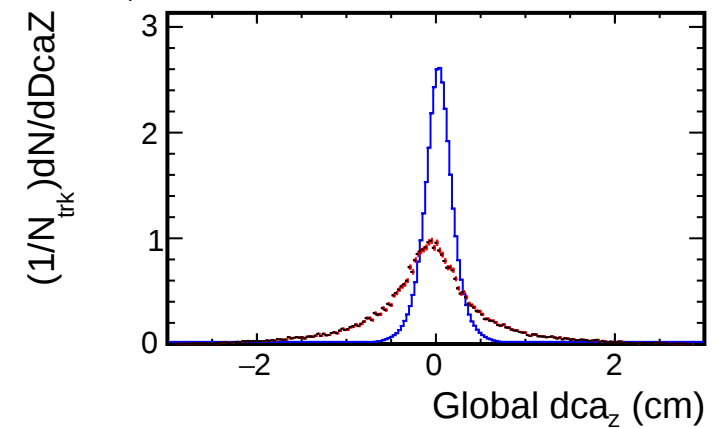
1.6, $0.5 < p_T < 1.0$ (GeV/c)



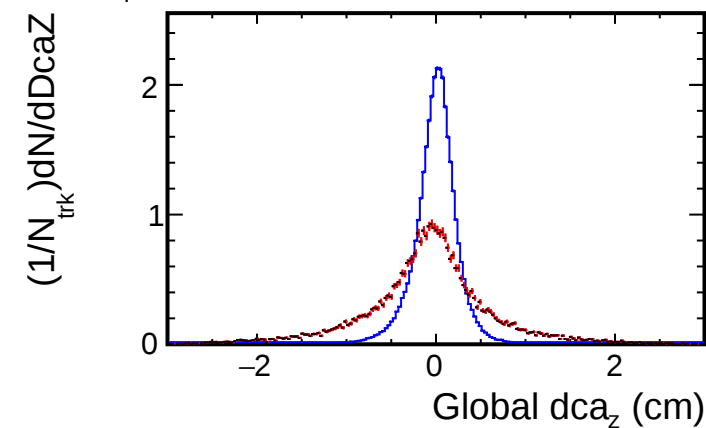
1.4, $0.5 < p_T < 1.0$ (GeV/c)



1.2, $0.5 < p_T < 1.0$ (GeV/c)



1.0, $0.5 < p_T < 1.0$ (GeV/c)

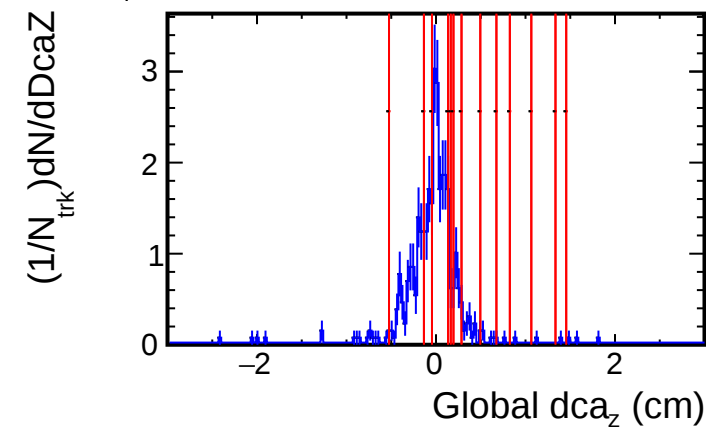


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

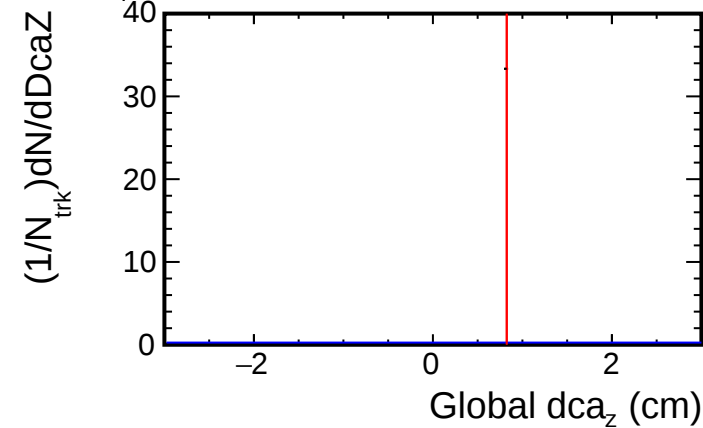
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

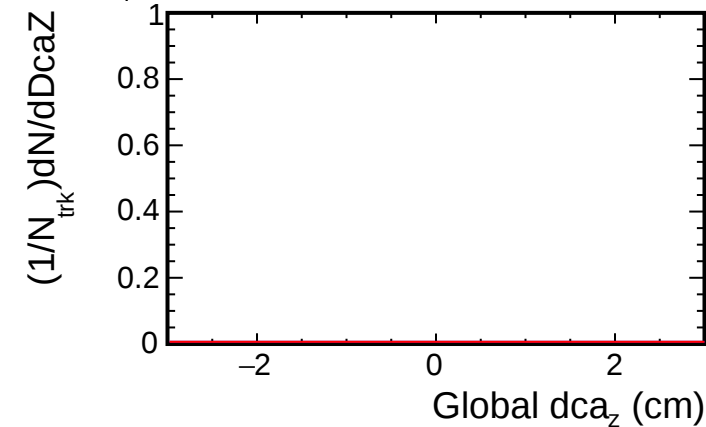
2, $0.5 < p_T < 1.0$ (GeV/c)



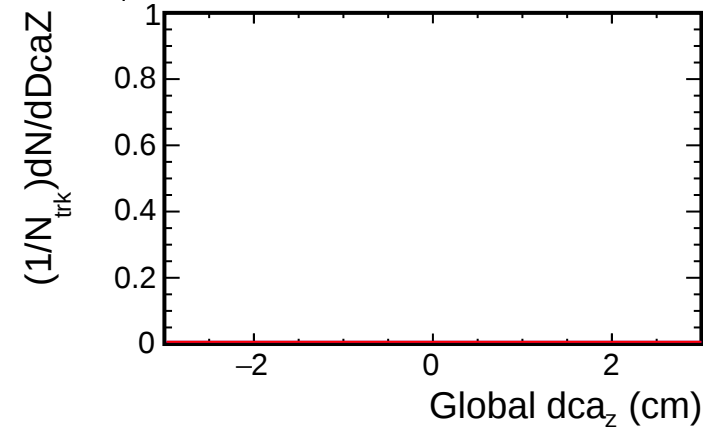
4, $0.5 < p_T < 1.0$ (GeV/c)



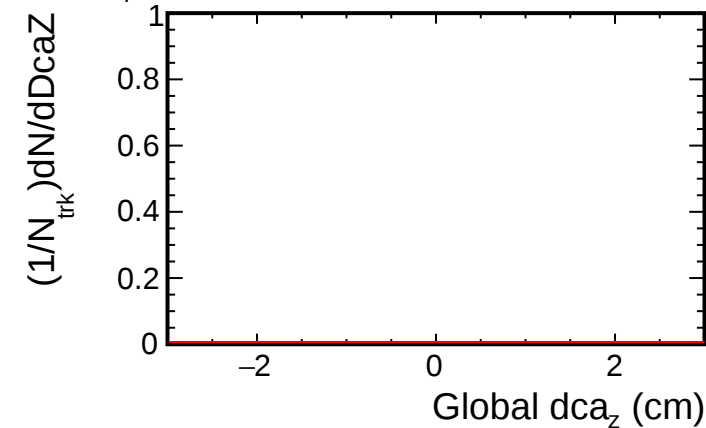
6, $0.5 < p_T < 1.0$ (GeV/c)



8, $0.5 < p_T < 1.0$ (GeV/c)



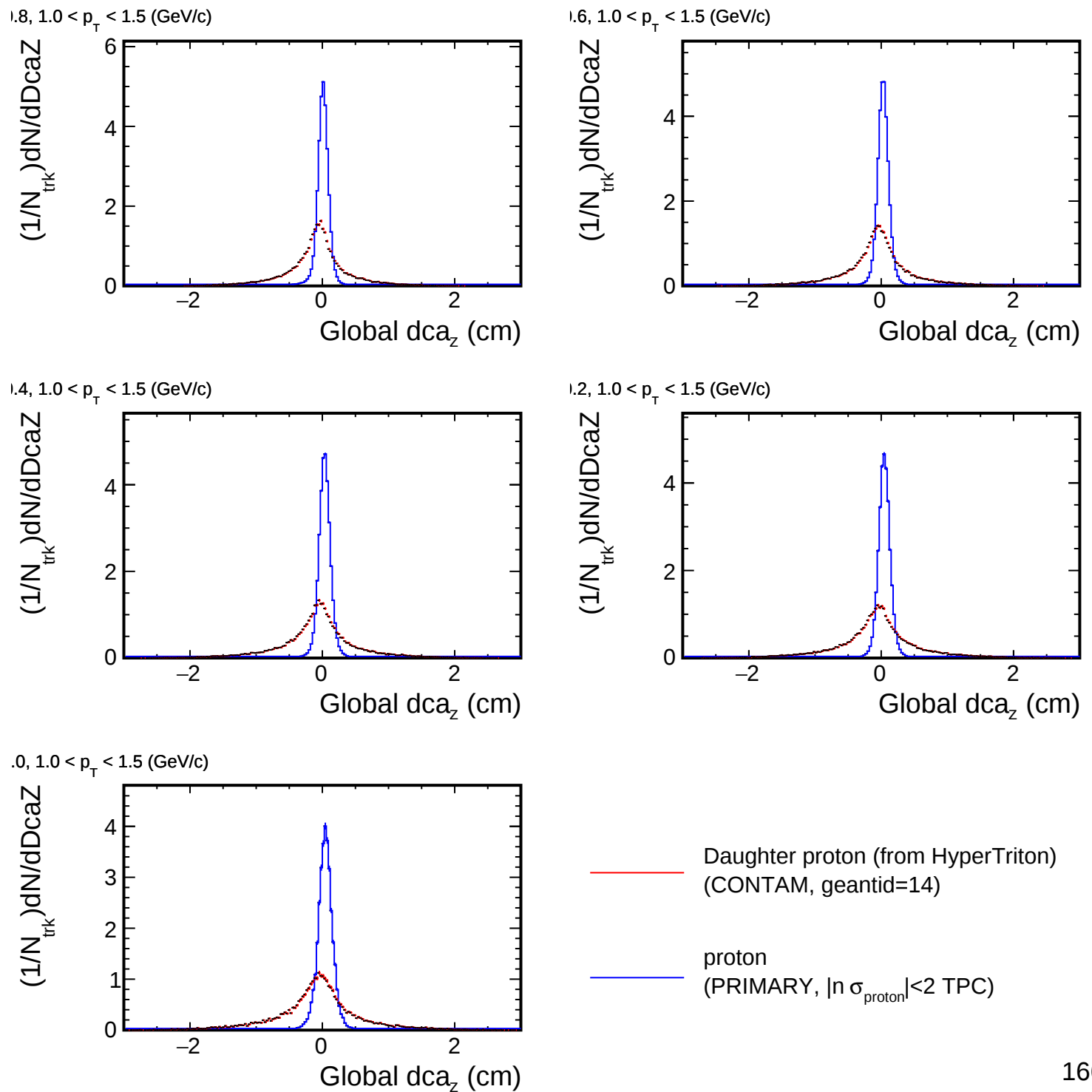
0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

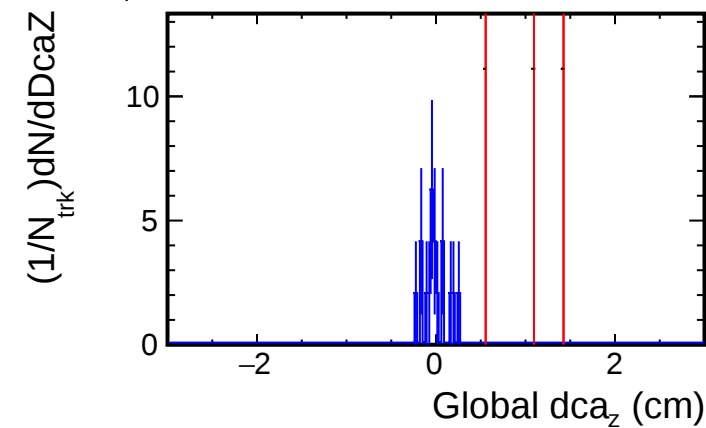
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

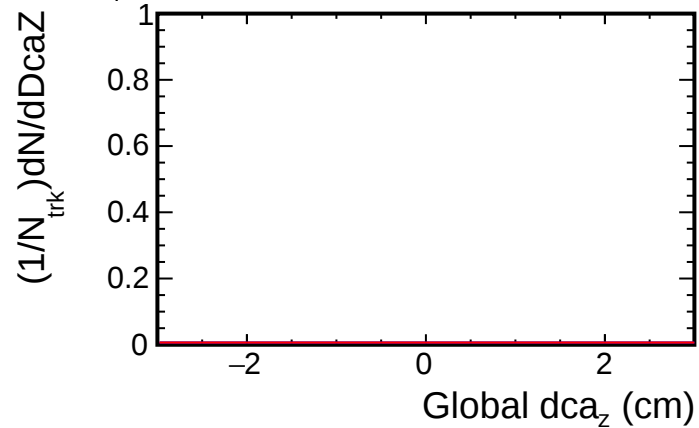


DcaZ distribution for (p_T , η) slices

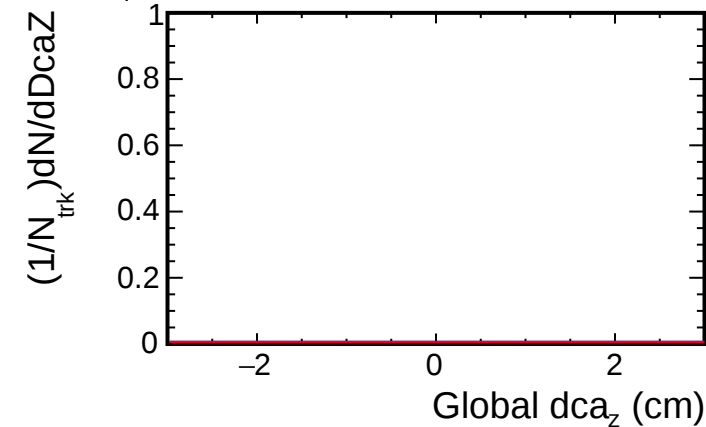
2, $1.0 < p_T < 1.5$ (GeV/c)



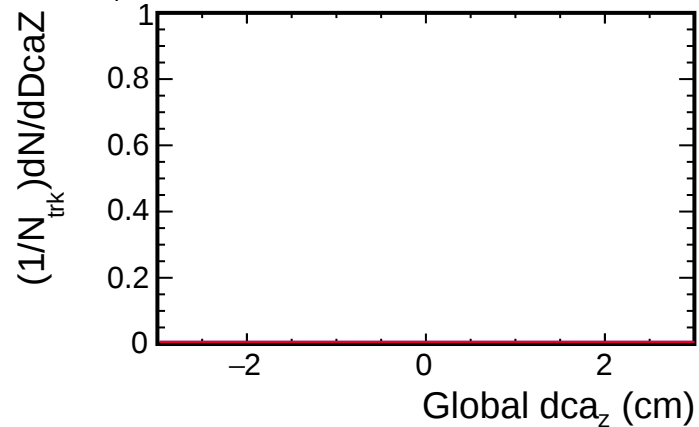
4, $1.0 < p_T < 1.5$ (GeV/c)



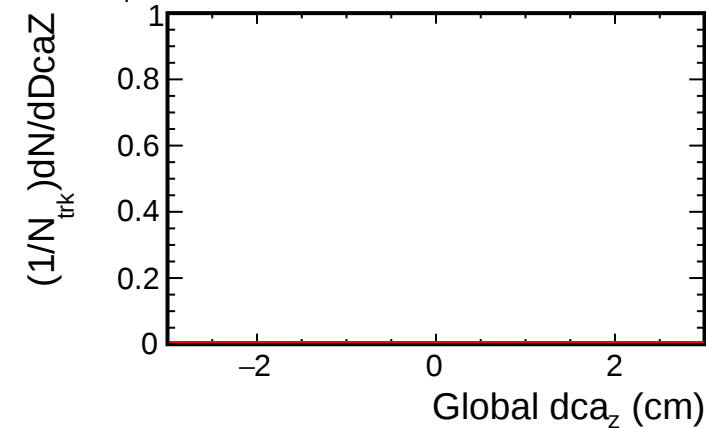
6, $1.0 < p_T < 1.5$ (GeV/c)



8, $1.0 < p_T < 1.5$ (GeV/c)



0, $1.0 < p_T < 1.5$ (GeV/c)

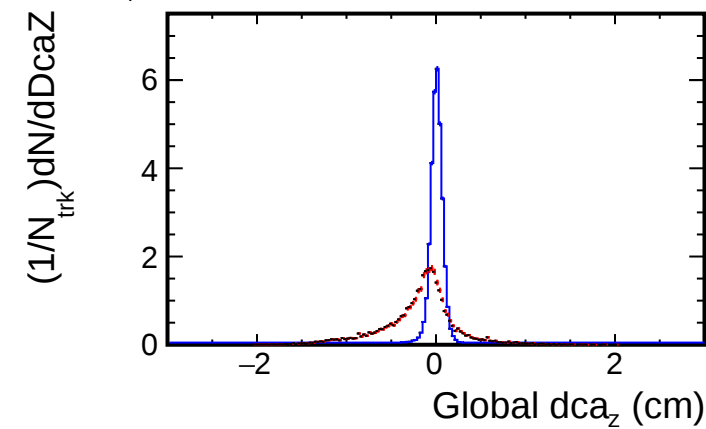


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

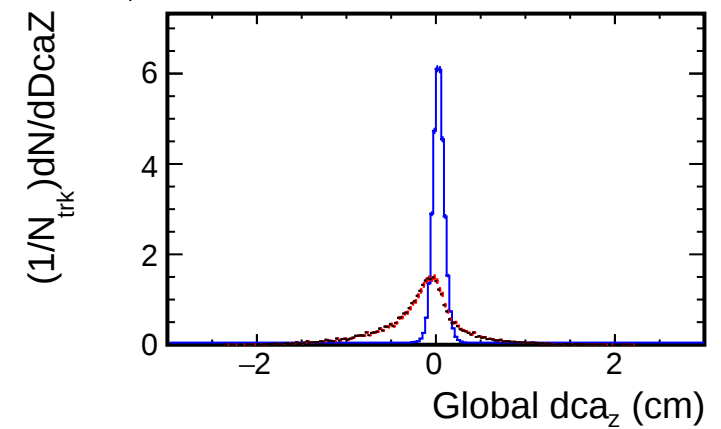
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

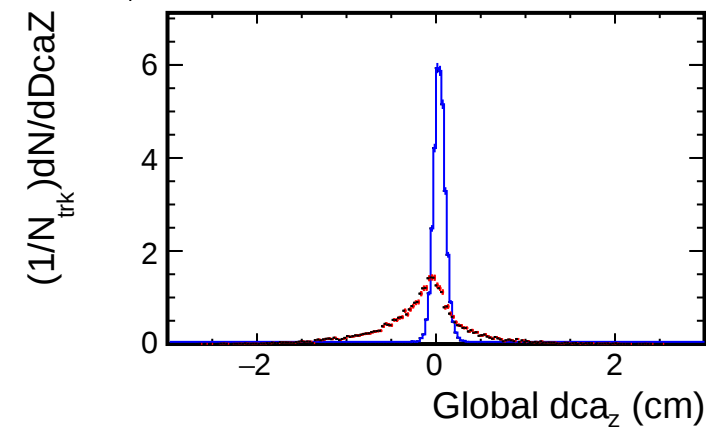
1.8, $1.5 < p_T < 2.0$ (GeV/c)



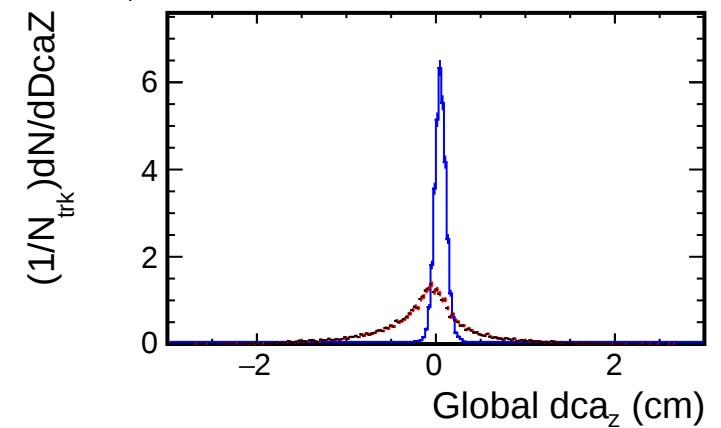
1.6, $1.5 < p_T < 2.0$ (GeV/c)



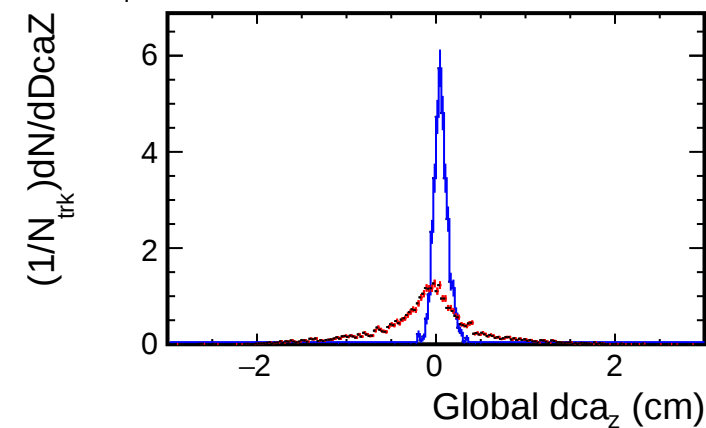
1.4, $1.5 < p_T < 2.0$ (GeV/c)



1.2, $1.5 < p_T < 2.0$ (GeV/c)



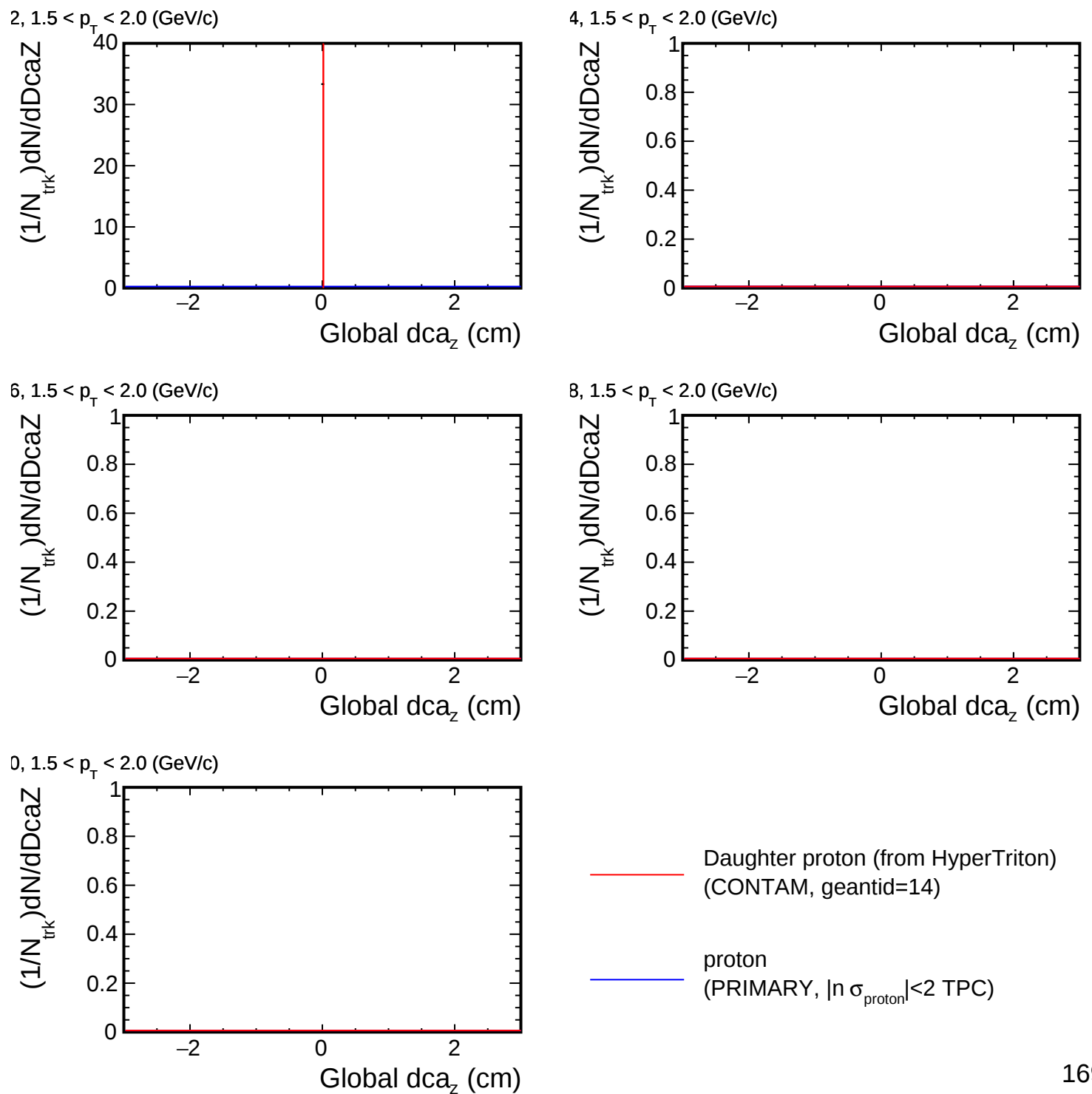
1.0, $1.5 < p_T < 2.0$ (GeV/c)



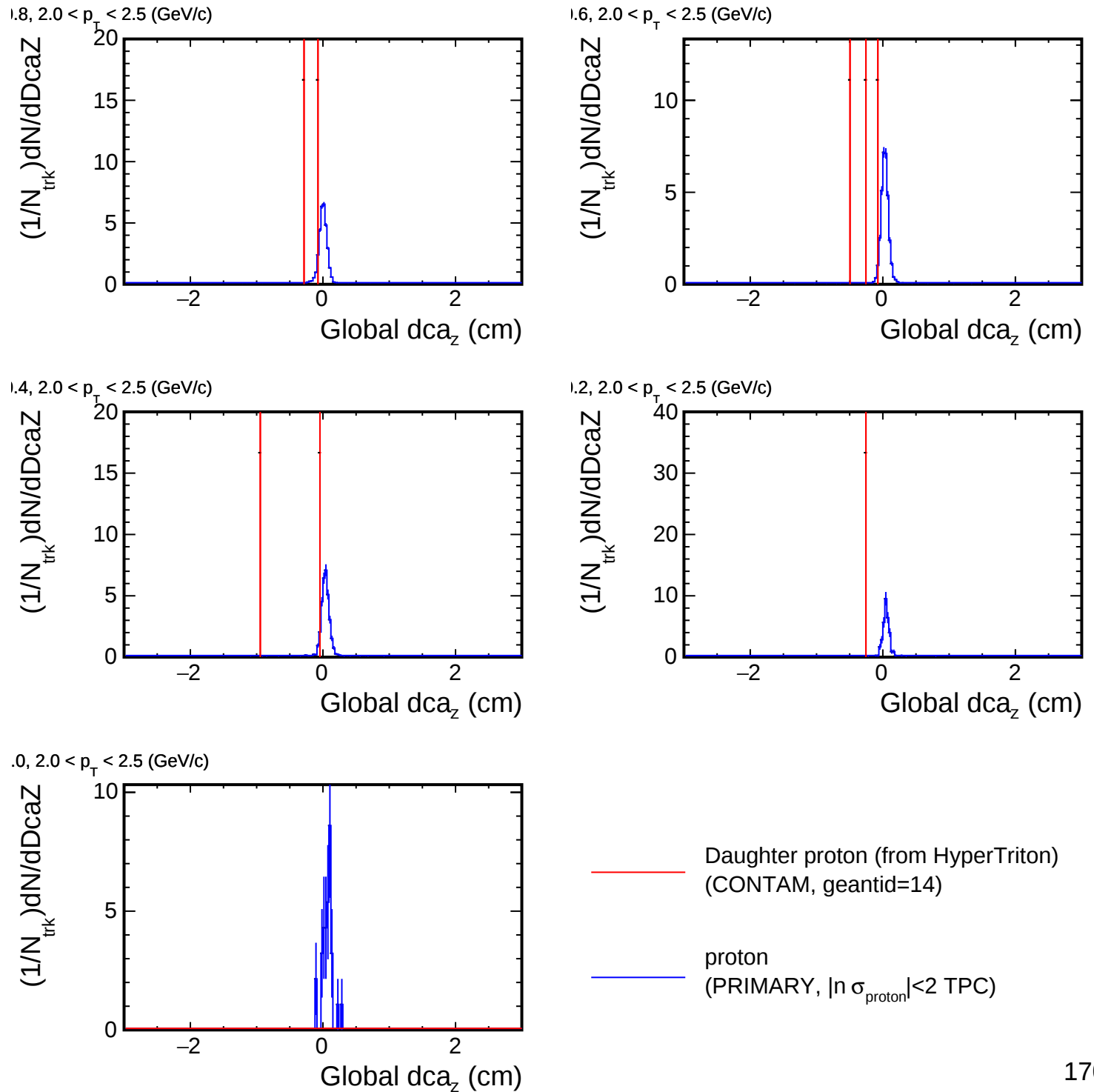
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

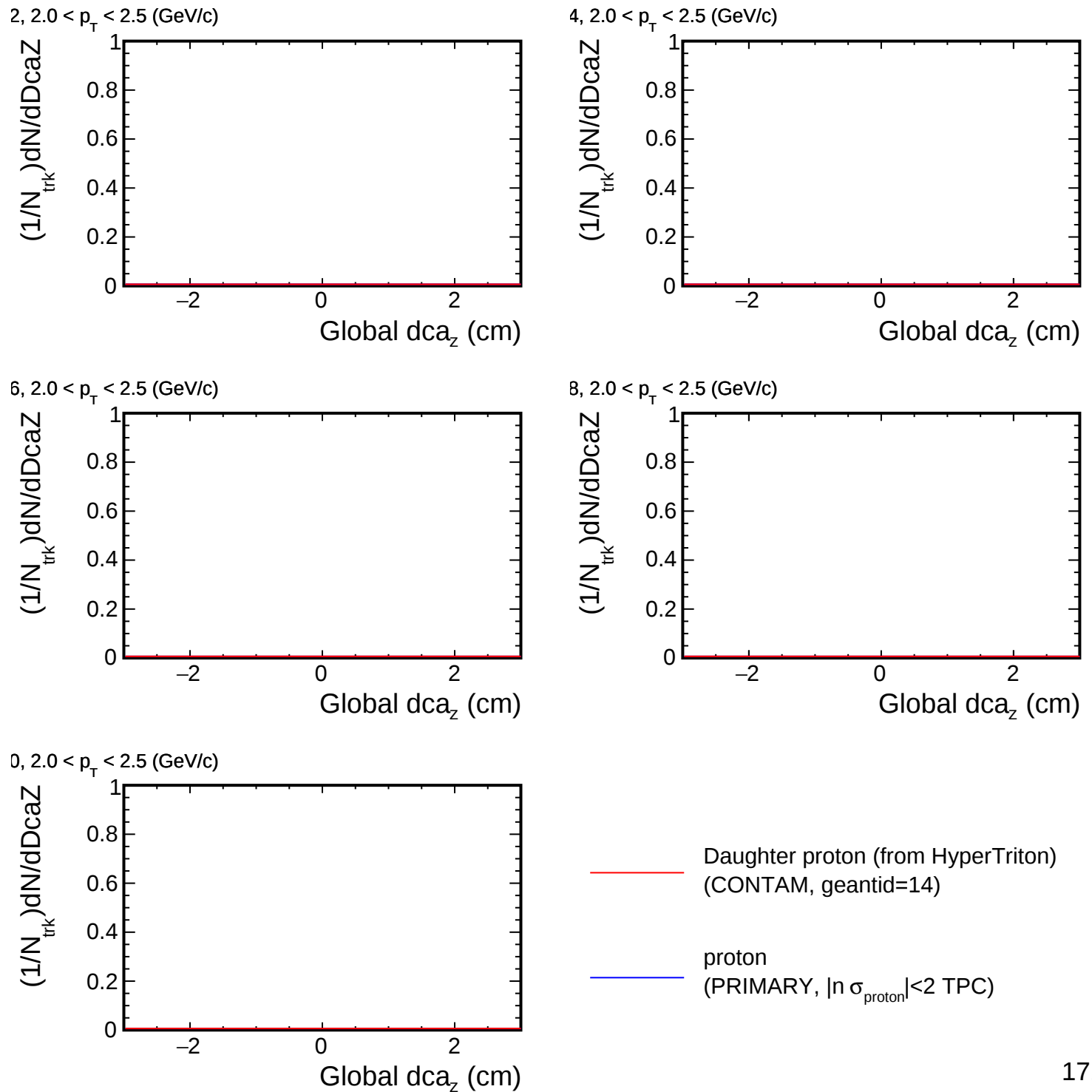
DcaZ distribution for (p_T , η) slices



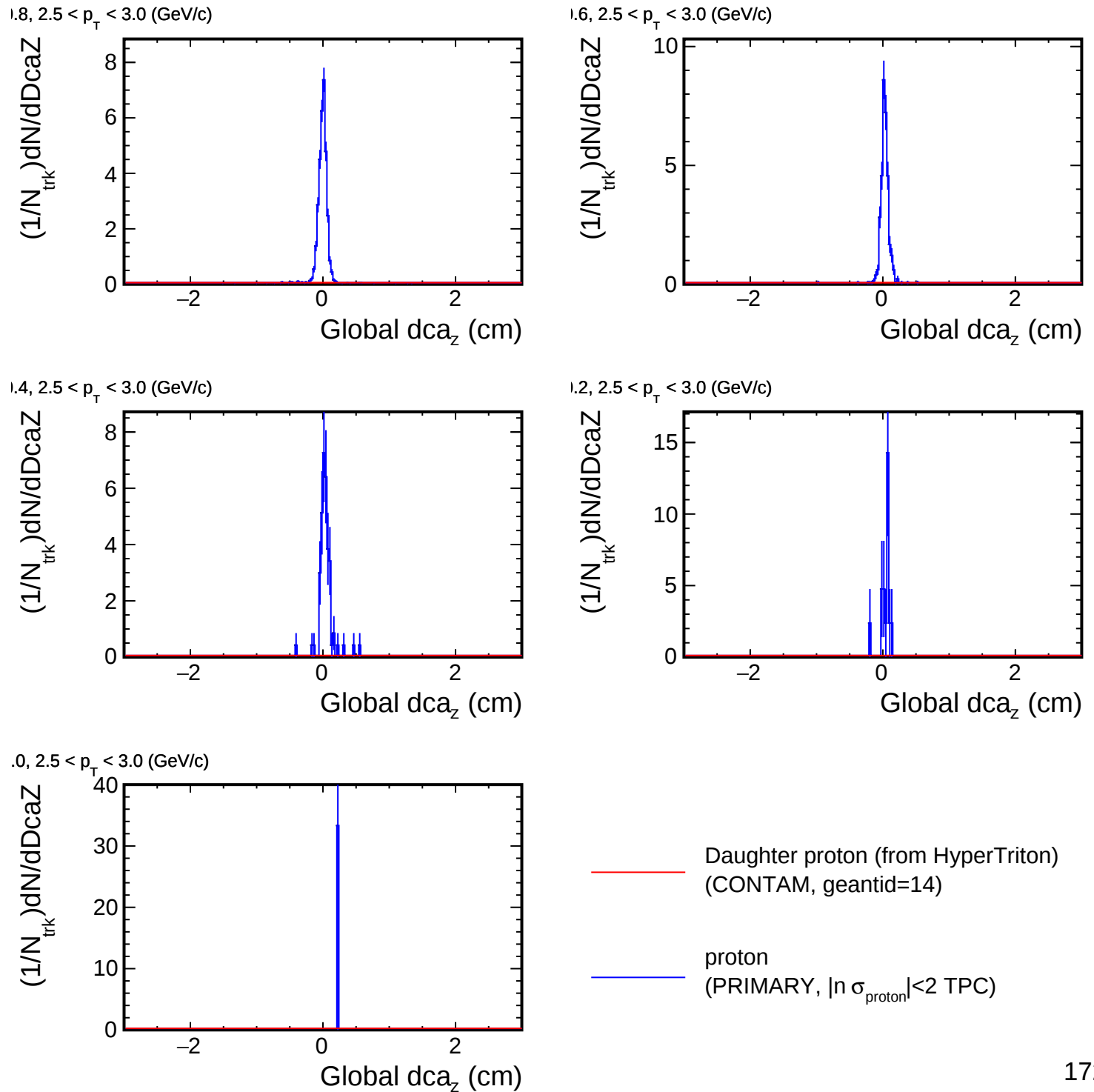
DcaZ distribution for (p_T , η) slices



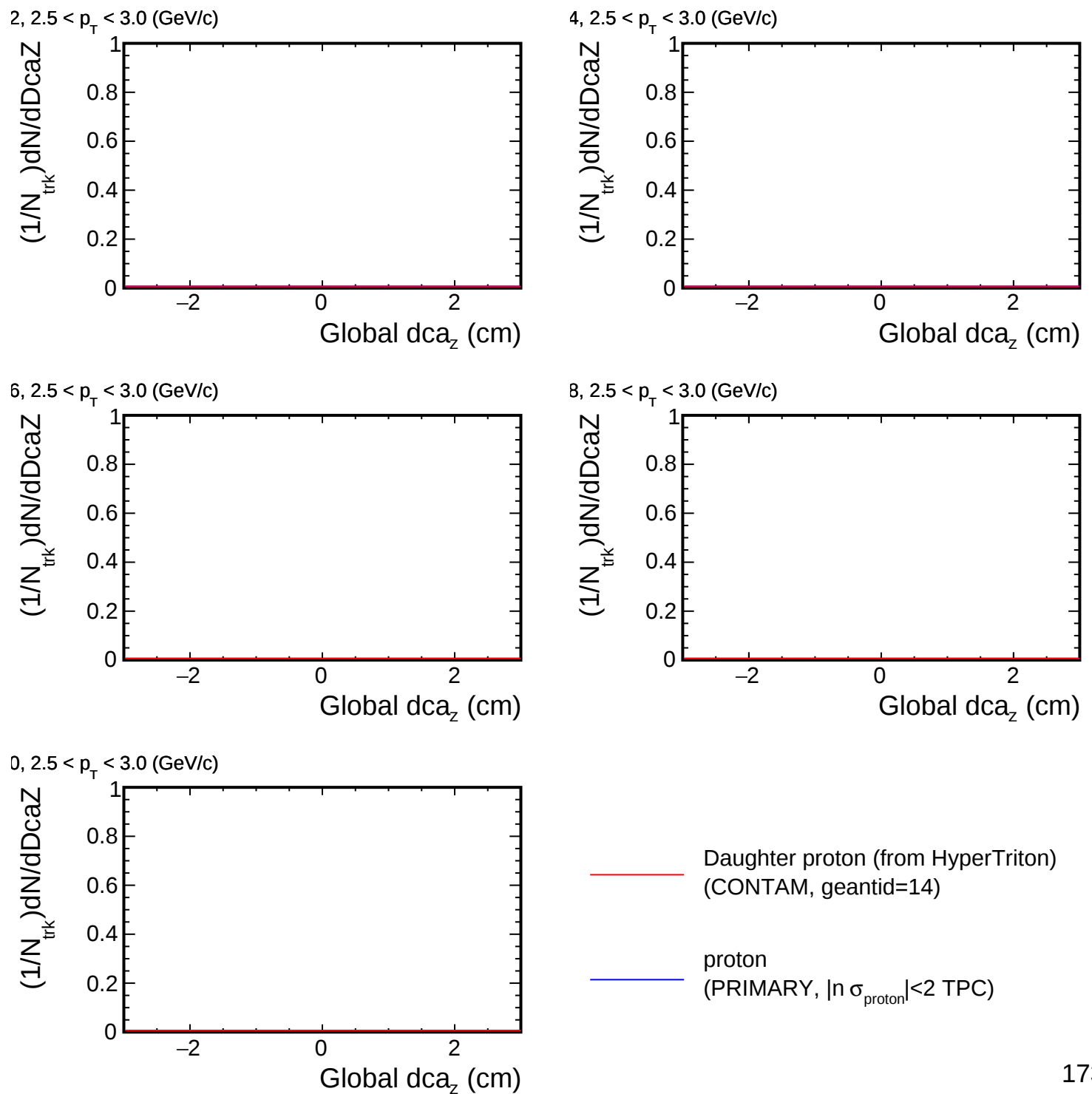
DcaZ distribution for (p_T , η) slices



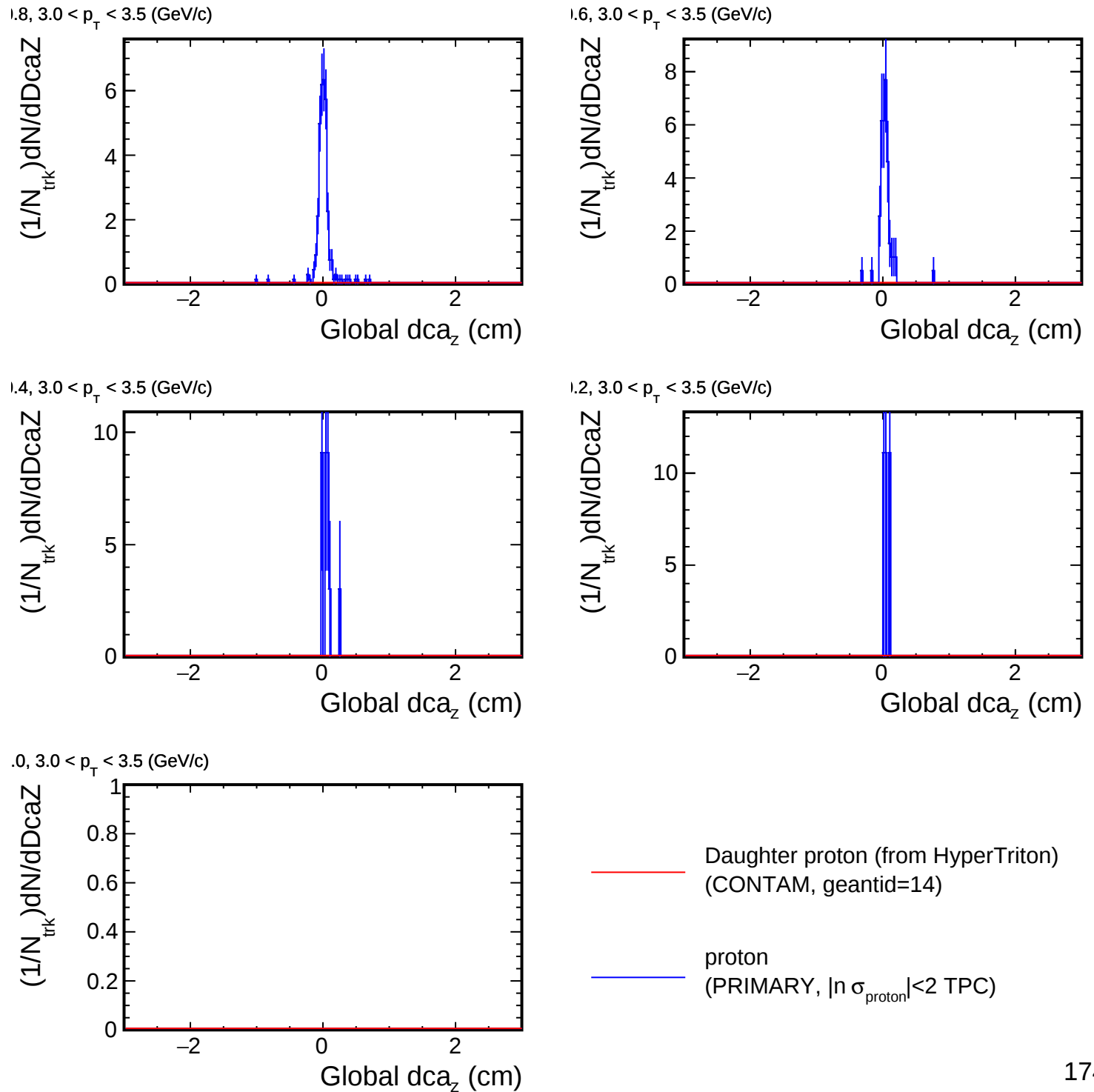
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

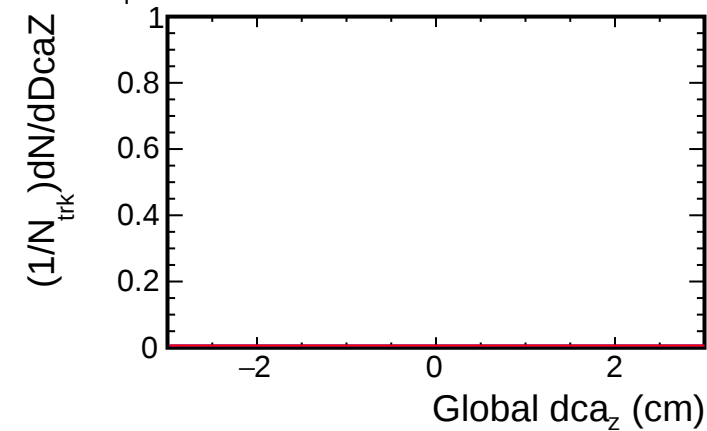


DcaZ distribution for (p_T , η) slices

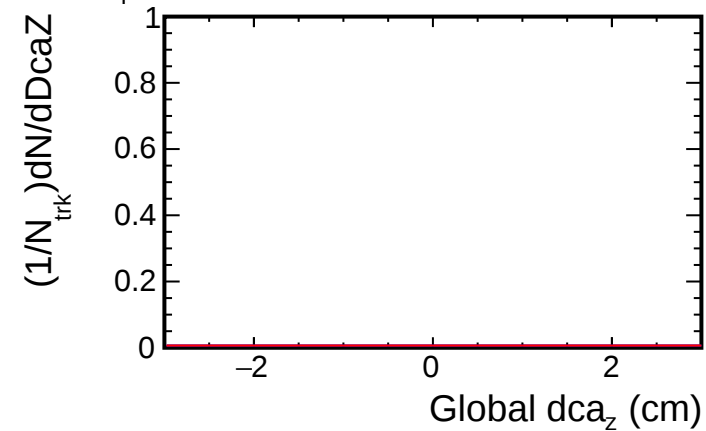


DcaZ distribution for (p_T , η) slices

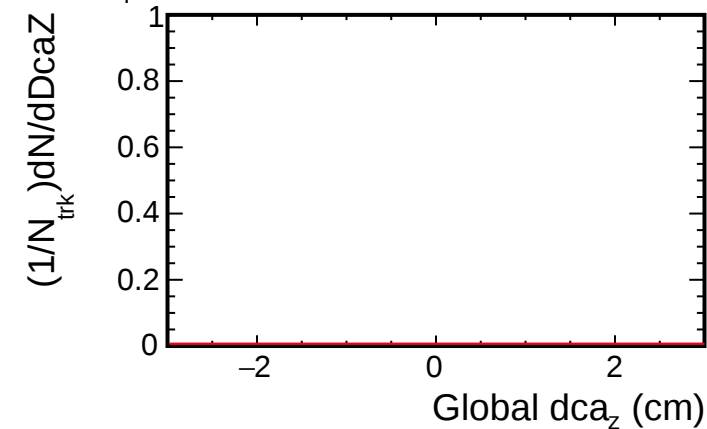
2, $3.0 < p_T < 3.5$ (GeV/c)



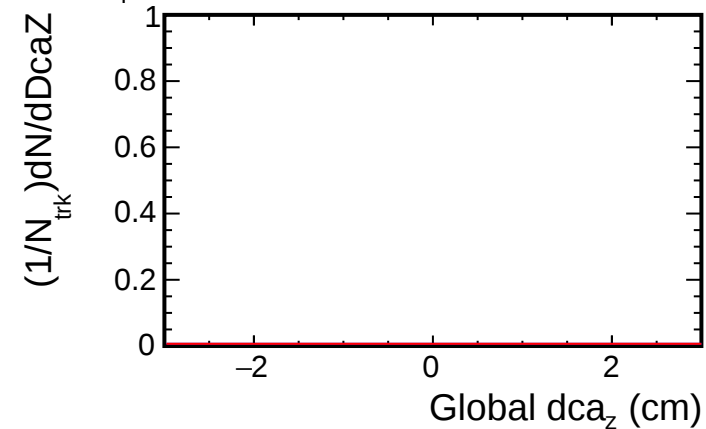
4, $3.0 < p_T < 3.5$ (GeV/c)



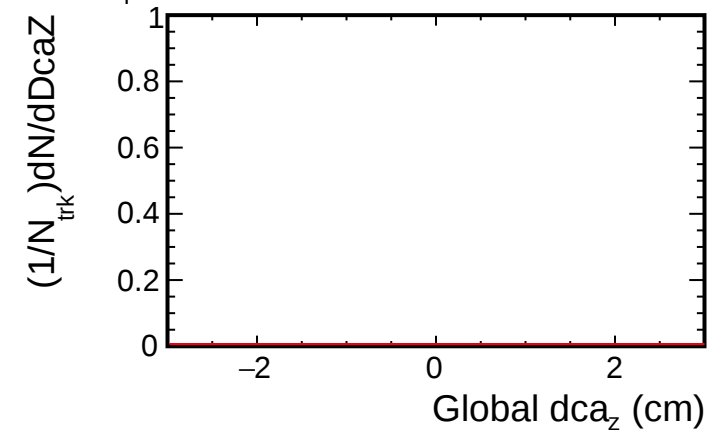
6, $3.0 < p_T < 3.5$ (GeV/c)



8, $3.0 < p_T < 3.5$ (GeV/c)



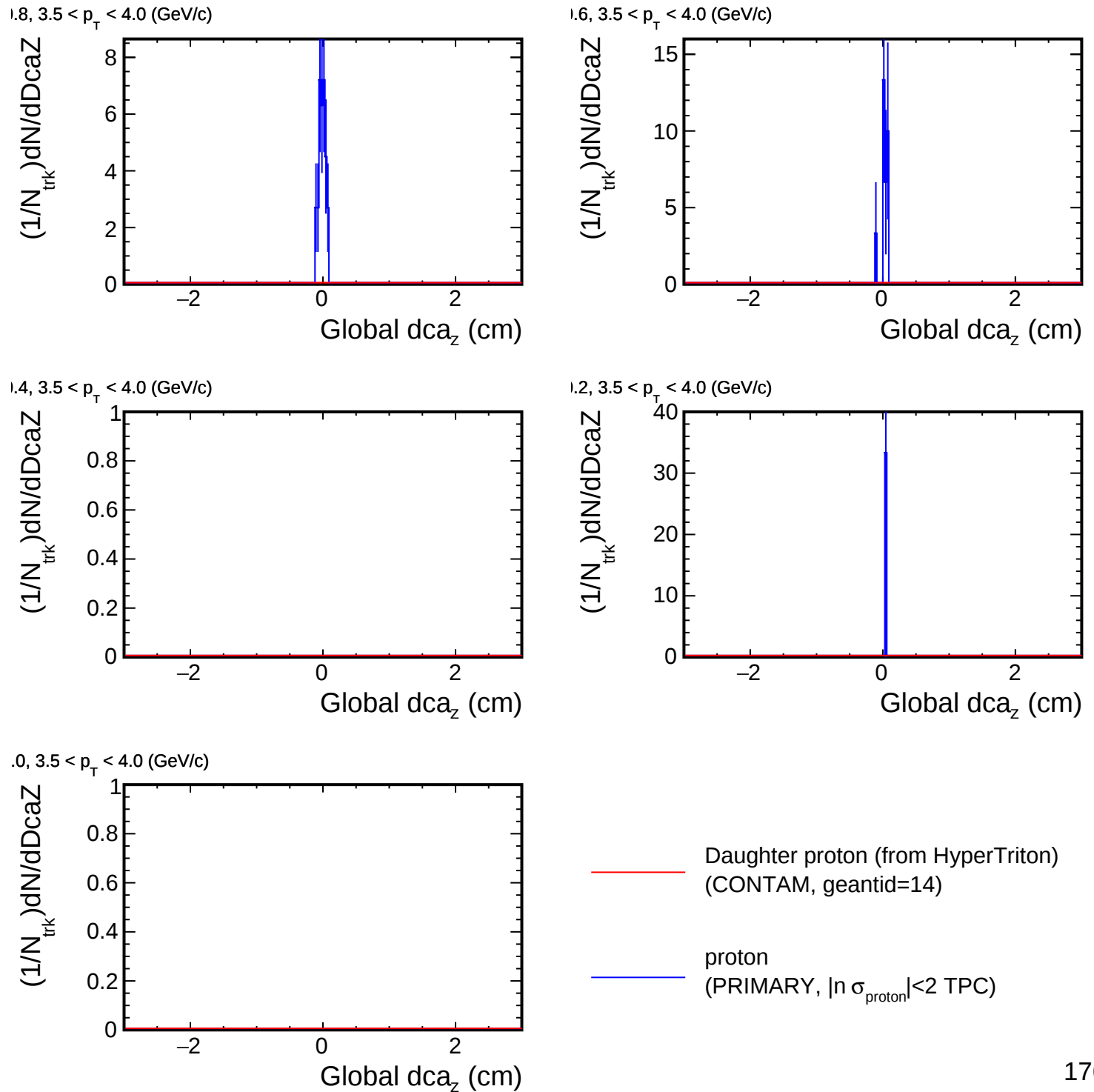
0, $3.0 < p_T < 3.5$ (GeV/c)



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

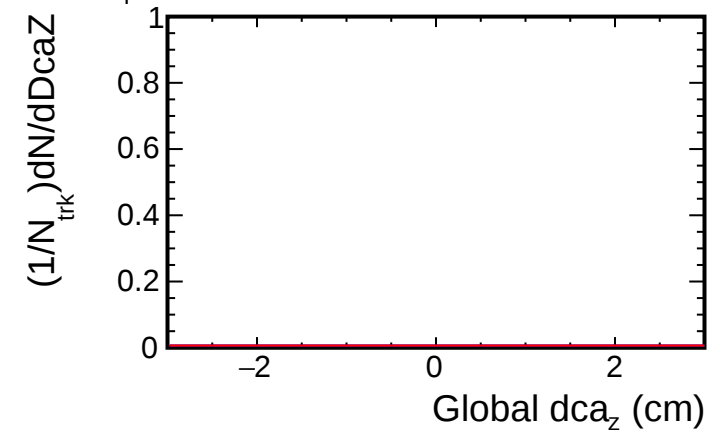
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

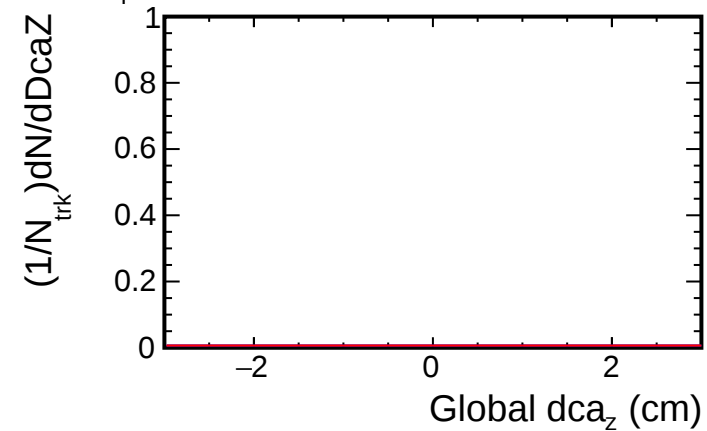


DcaZ distribution for (p_T , η) slices

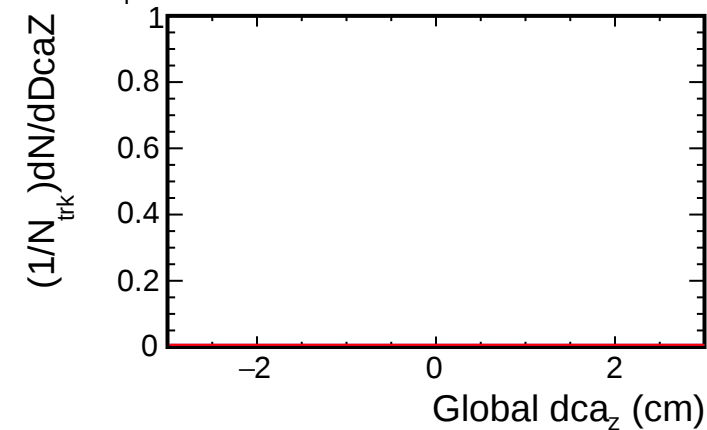
2, $3.5 < p_T < 4.0$ (GeV/c)



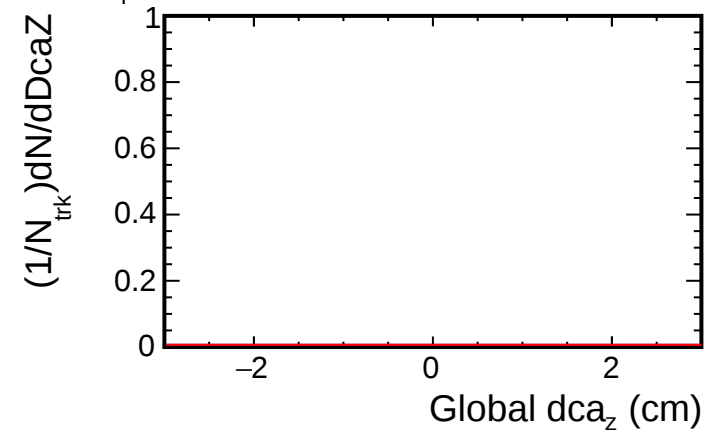
4, $3.5 < p_T < 4.0$ (GeV/c)



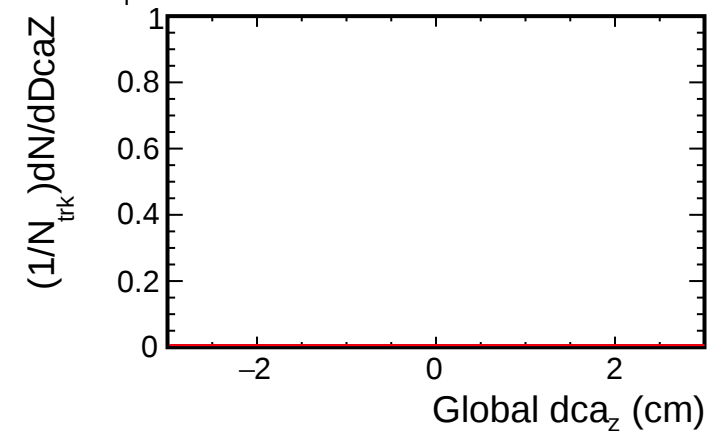
6, $3.5 < p_T < 4.0$ (GeV/c)



8, $3.5 < p_T < 4.0$ (GeV/c)



0, $3.5 < p_T < 4.0$ (GeV/c)

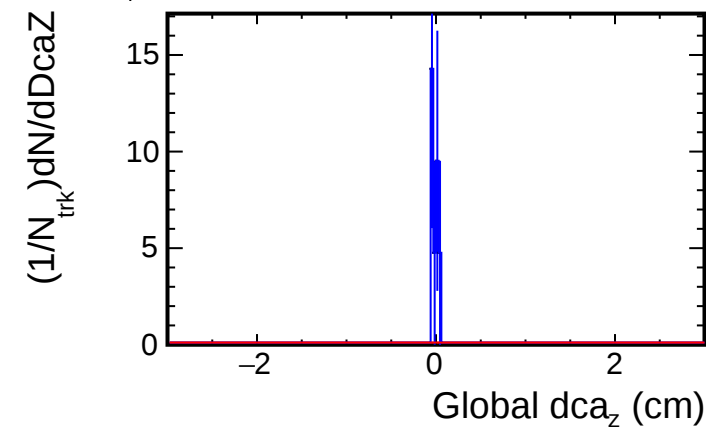


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

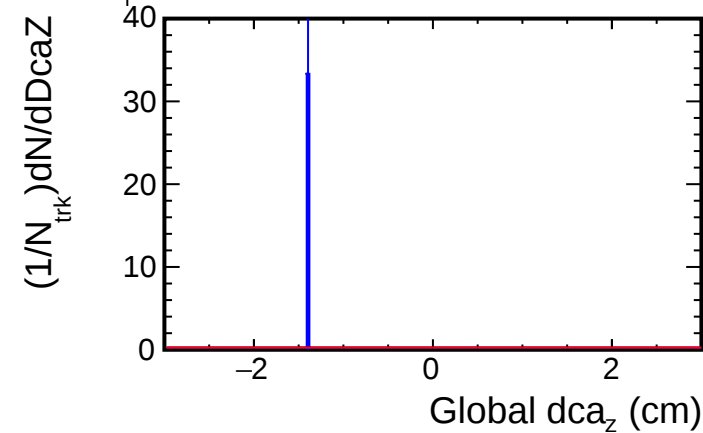
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

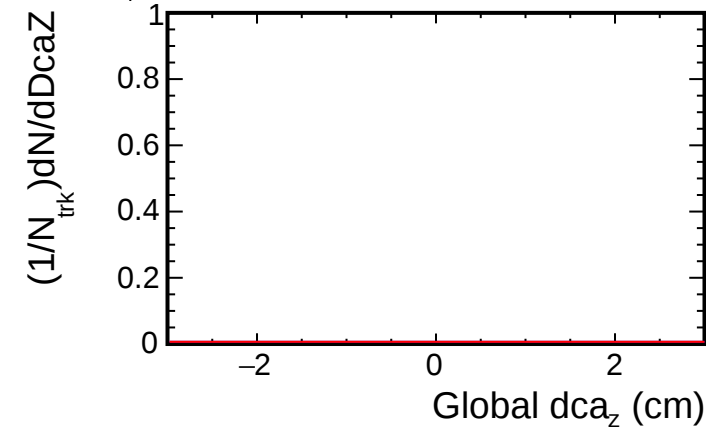
1.8, $4.0 < p_T < 4.5$ (GeV/c)



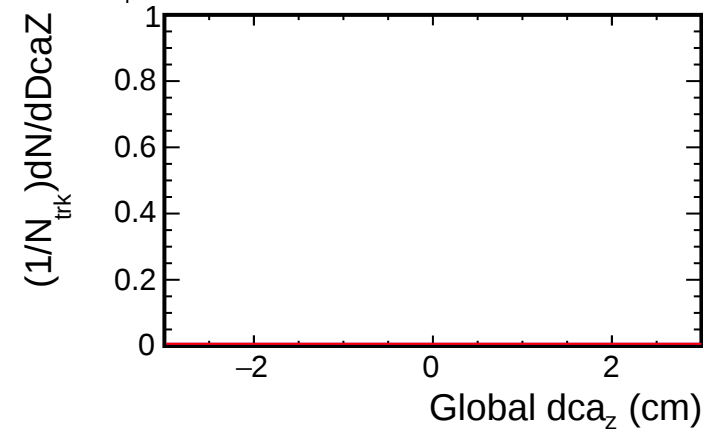
1.6, $4.0 < p_T < 4.5$ (GeV/c)



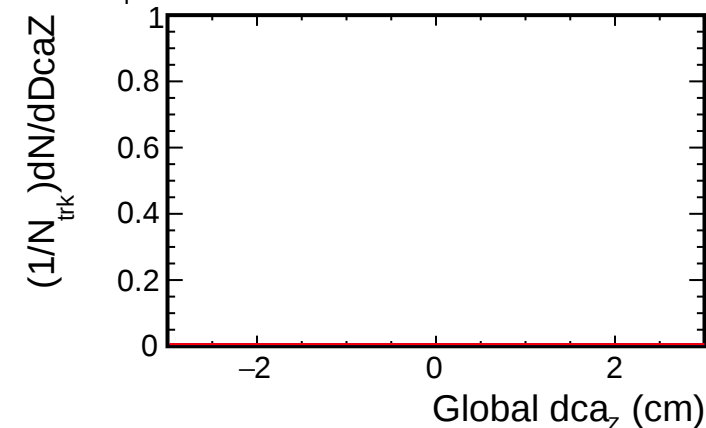
1.4, $4.0 < p_T < 4.5$ (GeV/c)



1.2, $4.0 < p_T < 4.5$ (GeV/c)



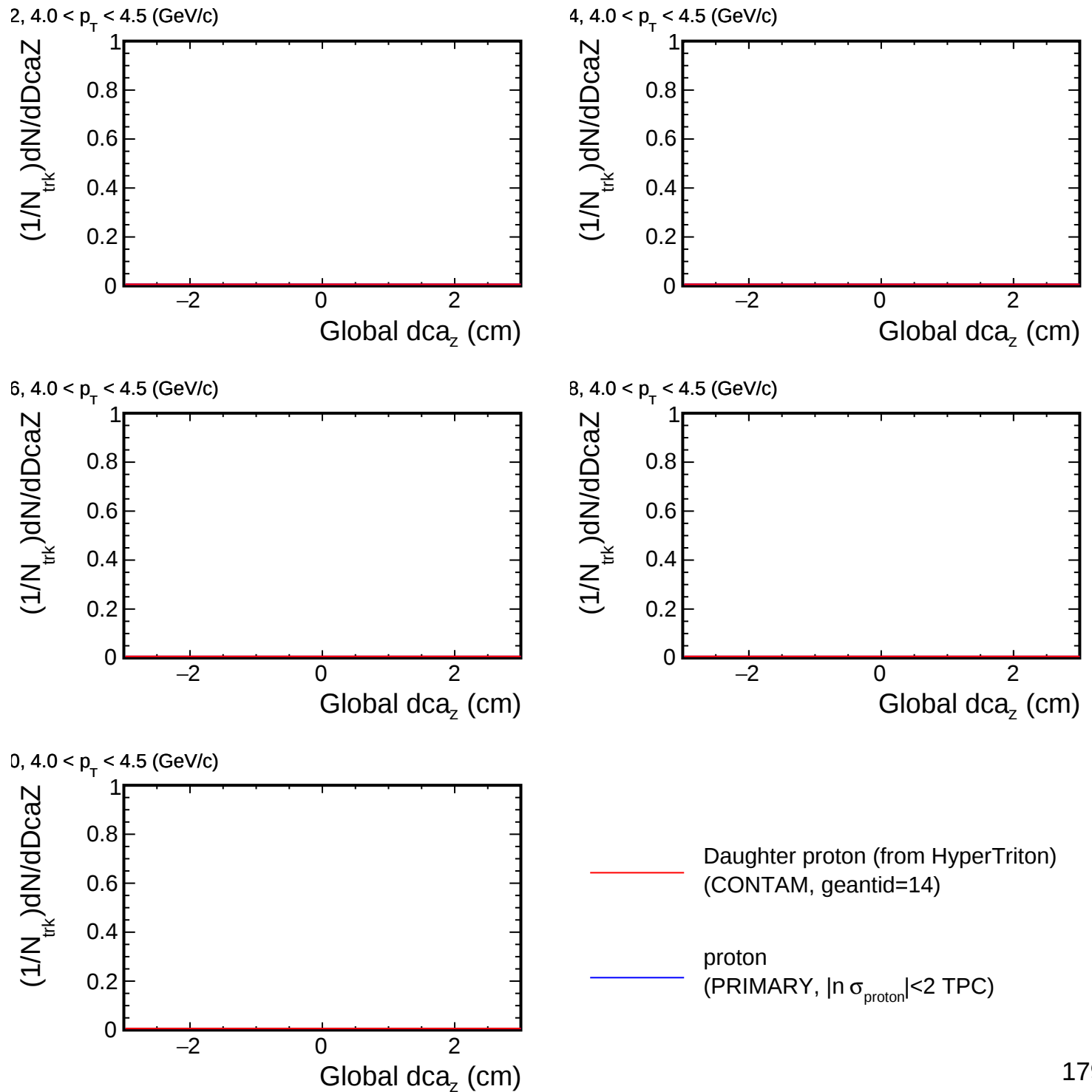
1.0, $4.0 < p_T < 4.5$ (GeV/c)



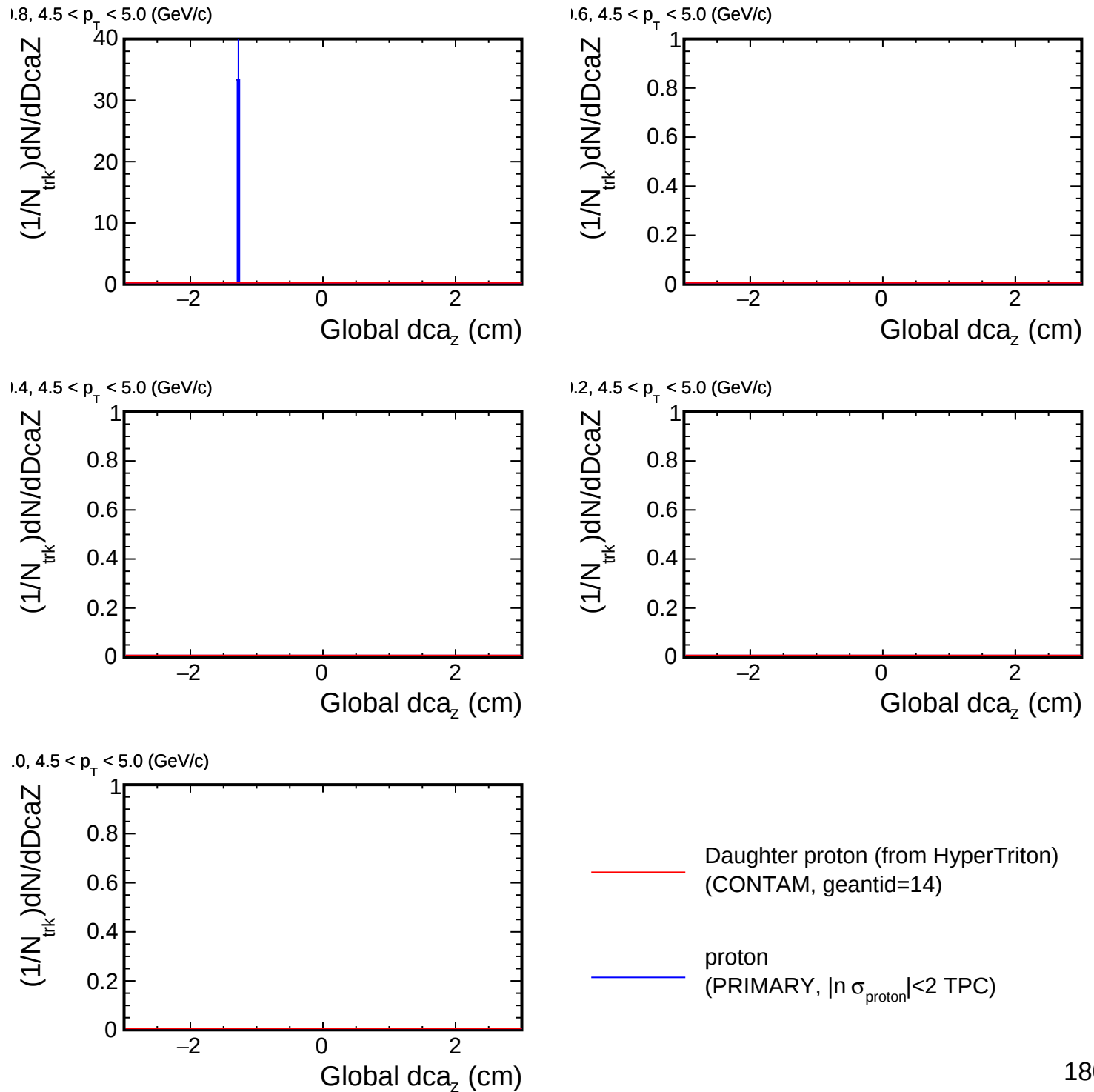
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

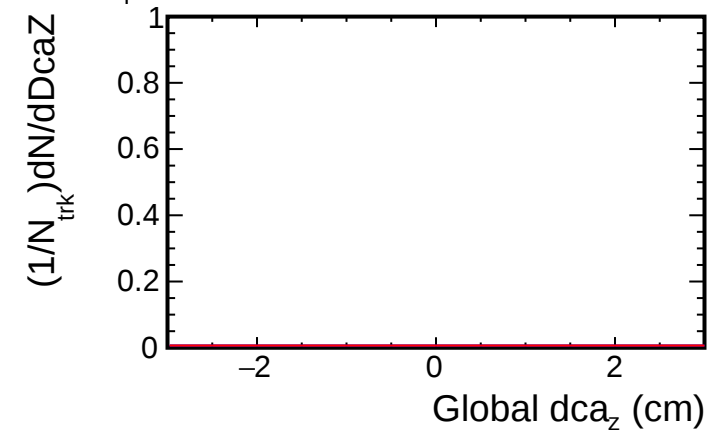


DcaZ distribution for (p_T , η) slices

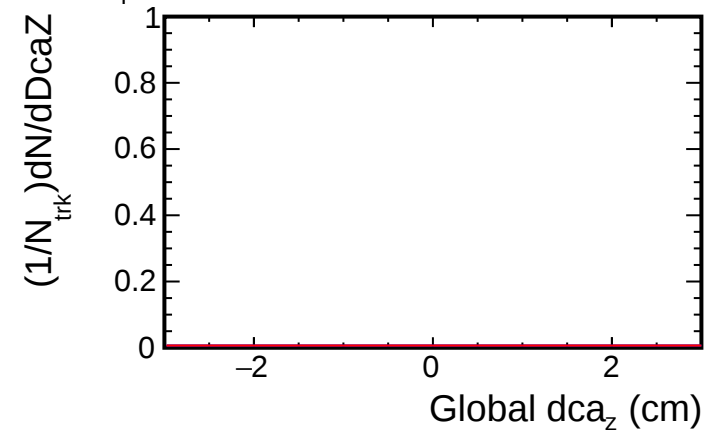


DcaZ distribution for (p_T , η) slices

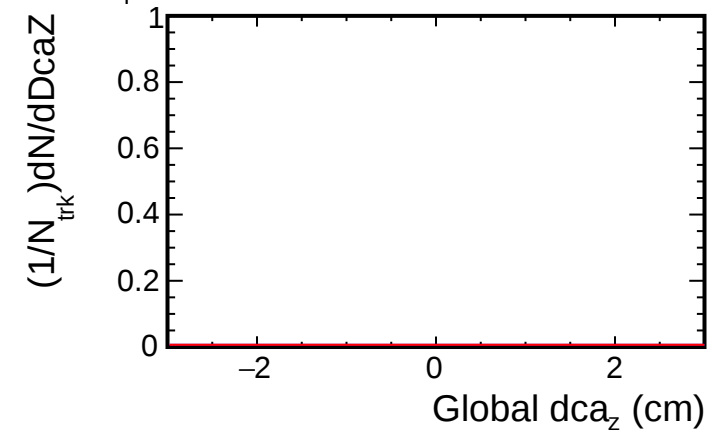
2, $4.5 < p_T < 5.0$ (GeV/c)



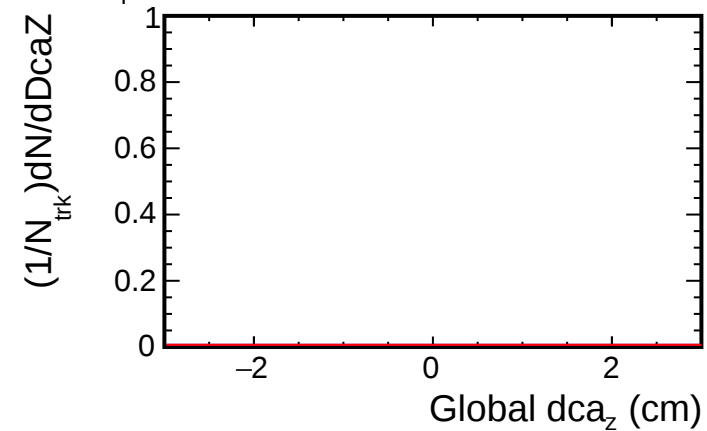
4, $4.5 < p_T < 5.0$ (GeV/c)



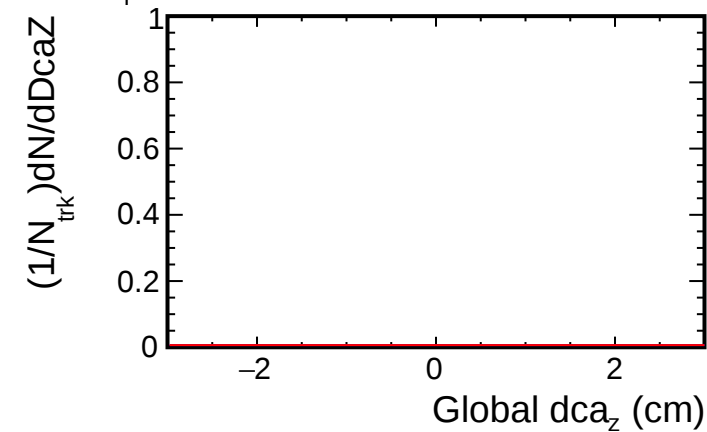
6, $4.5 < p_T < 5.0$ (GeV/c)



8, $4.5 < p_T < 5.0$ (GeV/c)



0, $4.5 < p_T < 5.0$ (GeV/c)

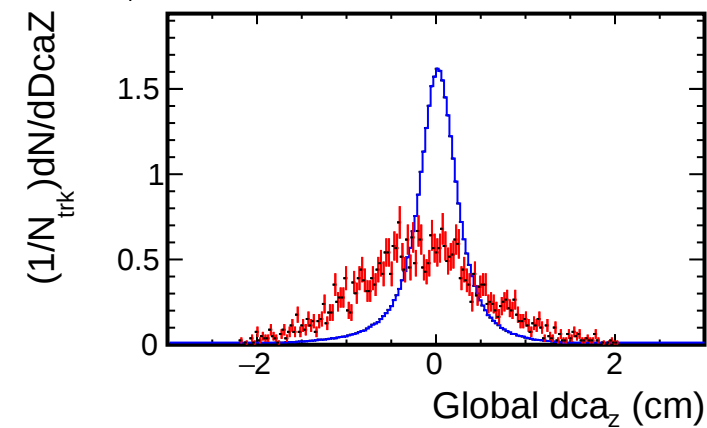


— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

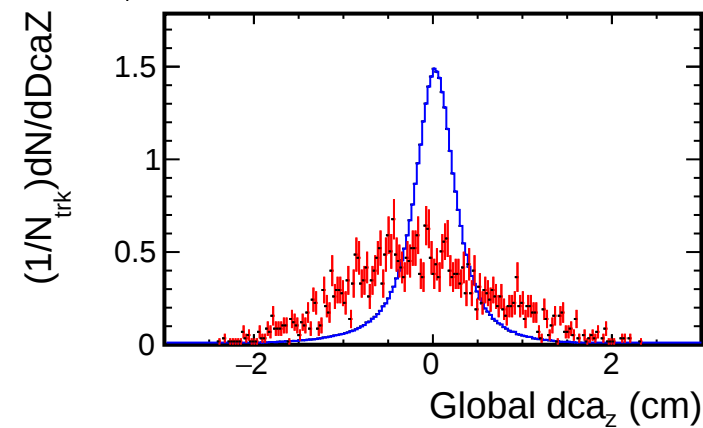
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

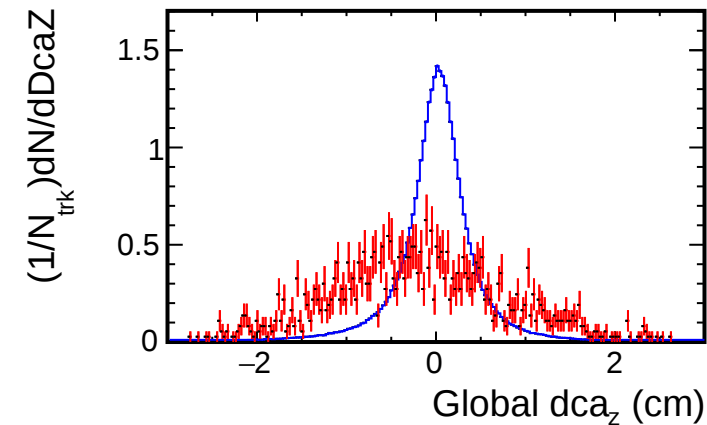
1.8, $0.1 < p_T < 0.5$ (GeV/c)



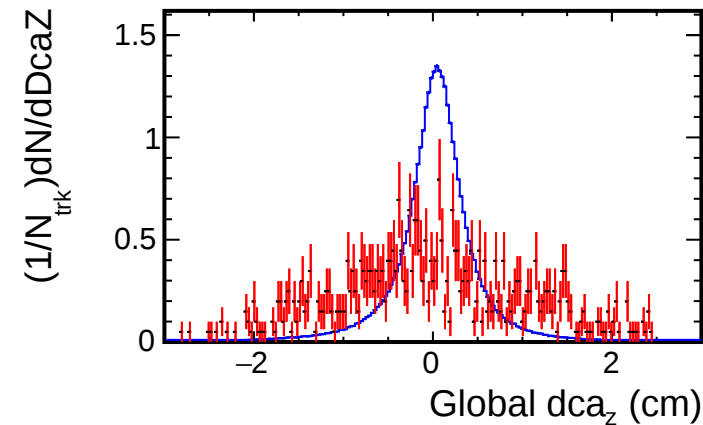
1.6, $0.1 < p_T < 0.5$ (GeV/c)



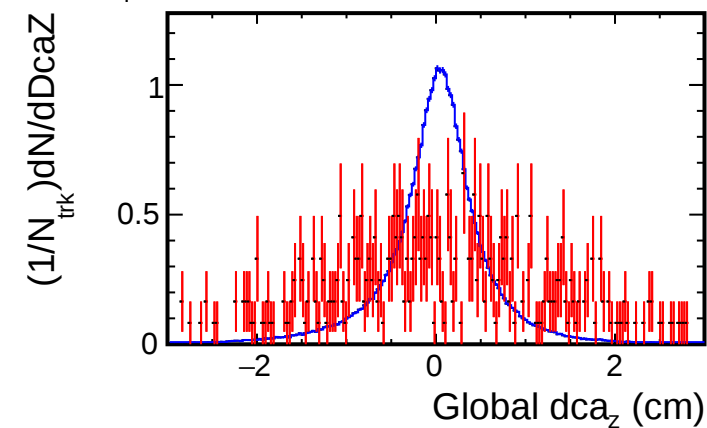
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



1.0, $0.1 < p_T < 0.5$ (GeV/c)

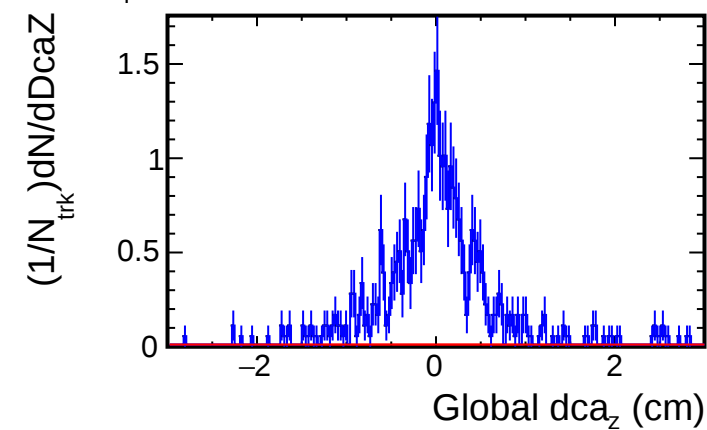


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

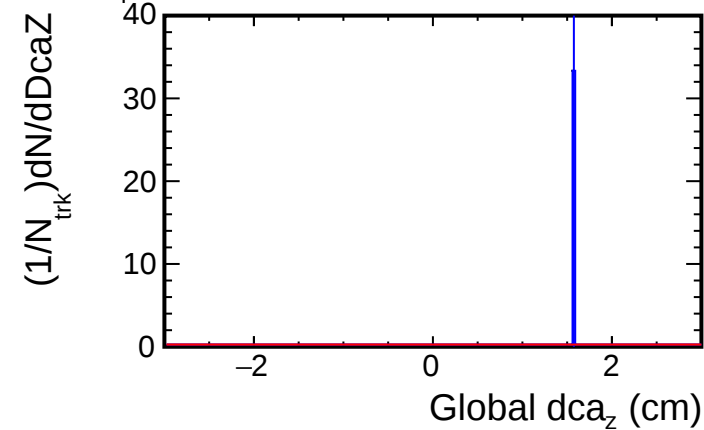
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

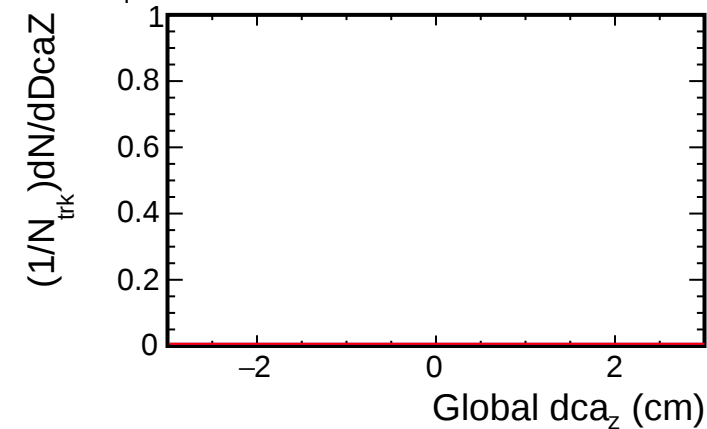
2, $0.1 < p_T < 0.5$ (GeV/c)



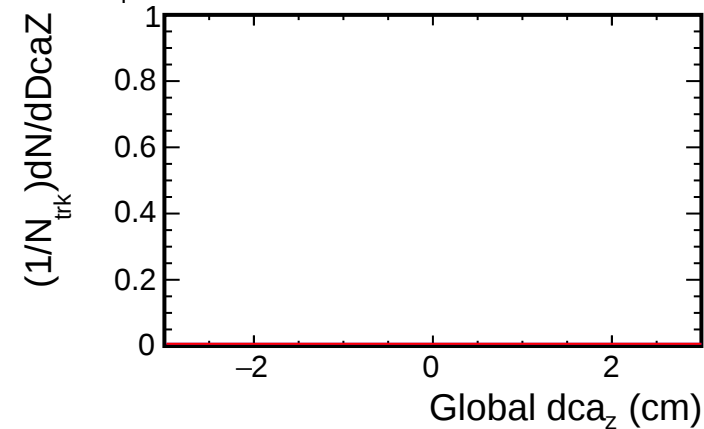
4, $0.1 < p_T < 0.5$ (GeV/c)



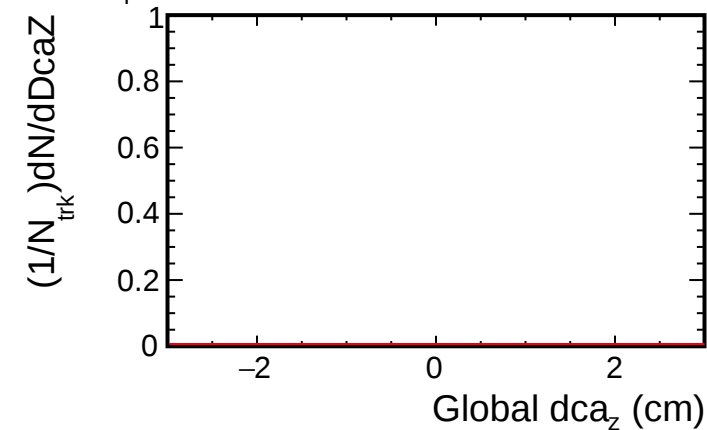
6, $0.1 < p_T < 0.5$ (GeV/c)



8, $0.1 < p_T < 0.5$ (GeV/c)



0, $0.1 < p_T < 0.5$ (GeV/c)

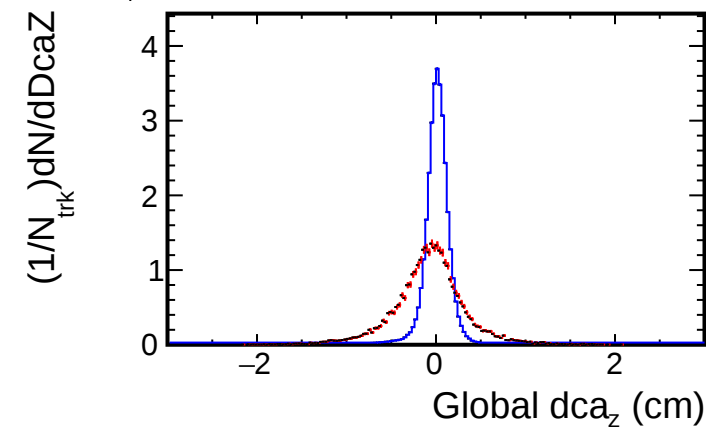


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

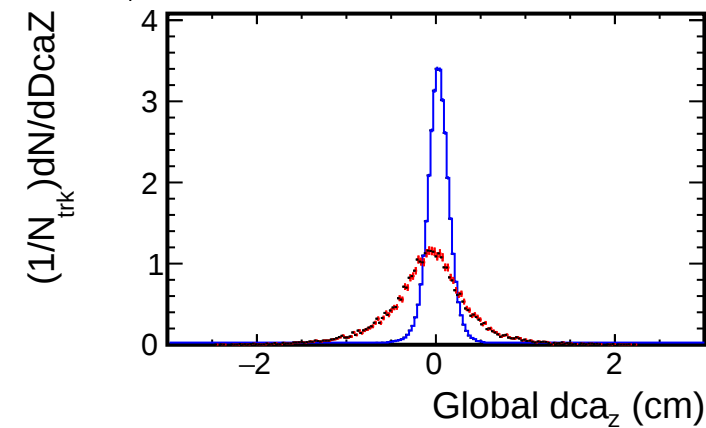
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

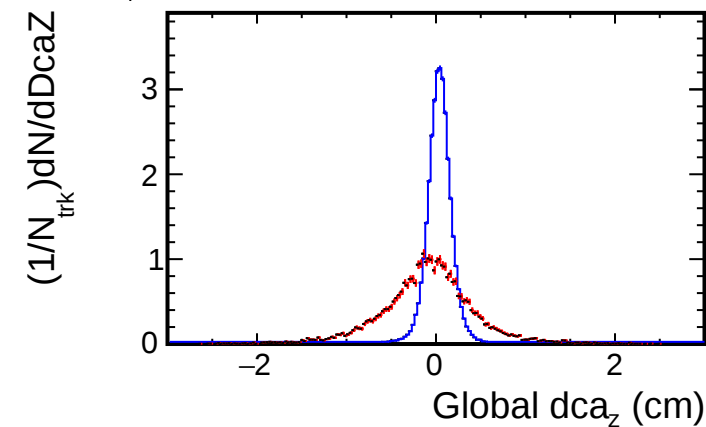
1.8, $0.5 < p_T < 1.0$ (GeV/c)



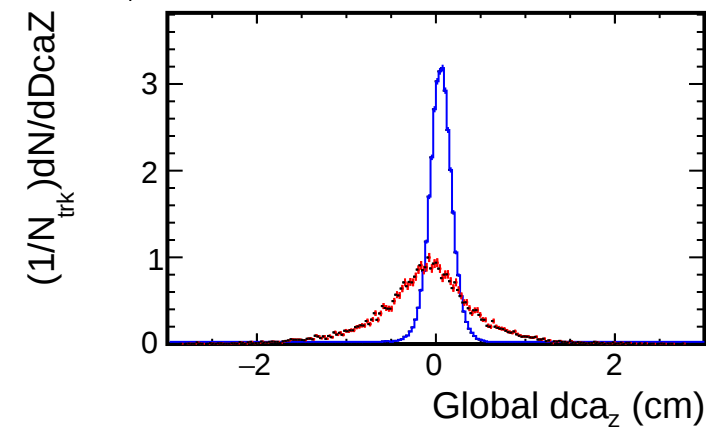
1.6, $0.5 < p_T < 1.0$ (GeV/c)



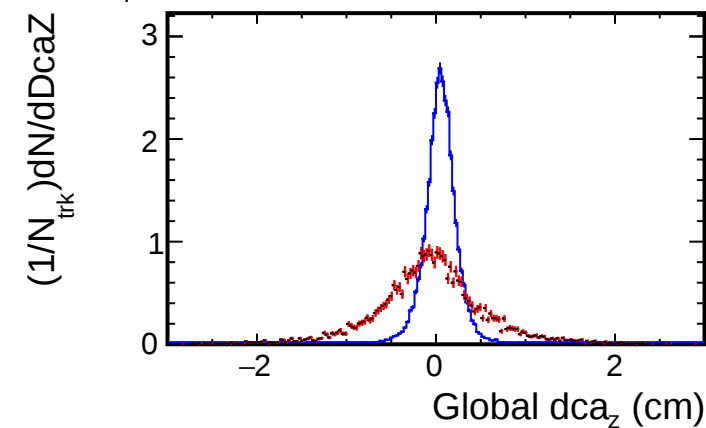
1.4, $0.5 < p_T < 1.0$ (GeV/c)



1.2, $0.5 < p_T < 1.0$ (GeV/c)



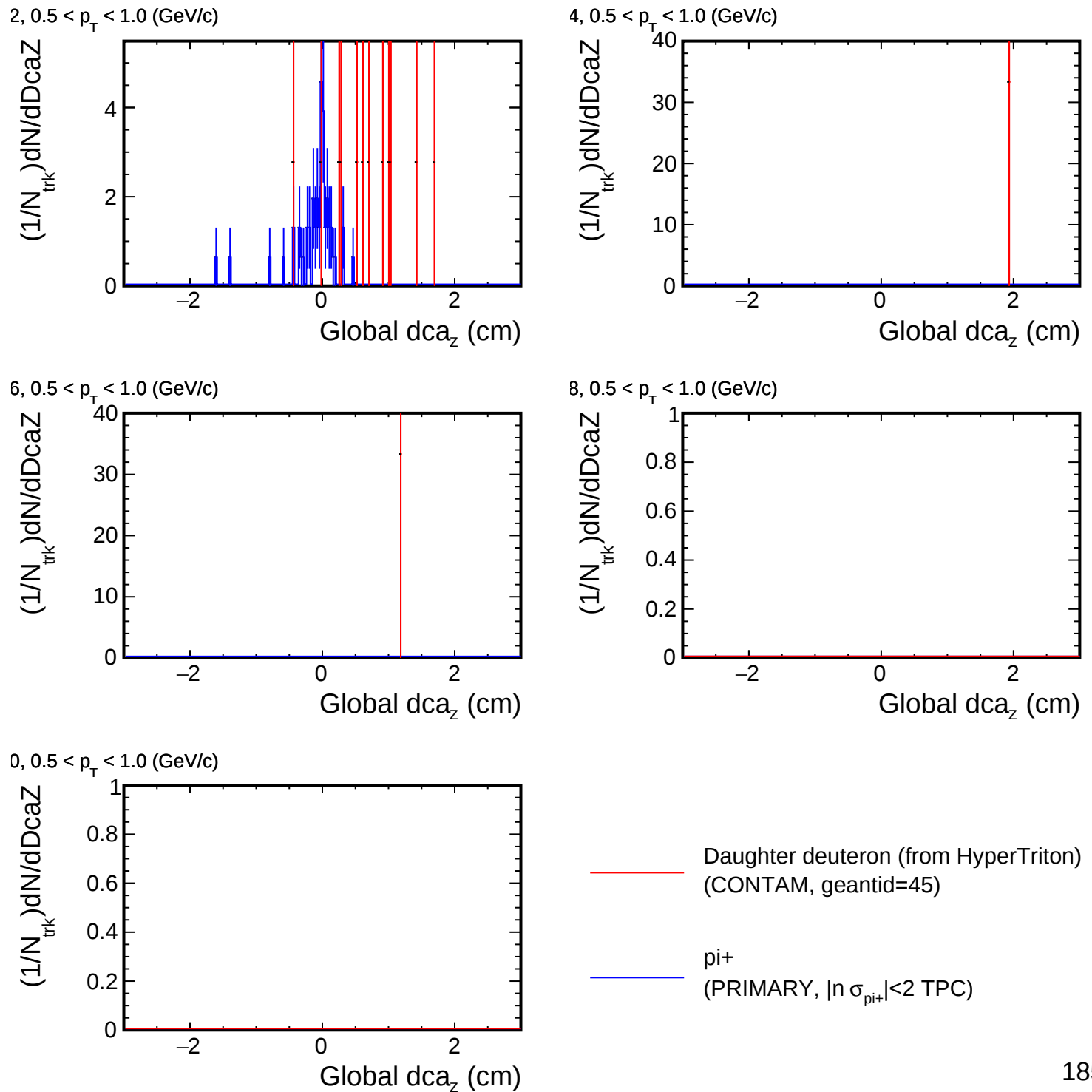
1.0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

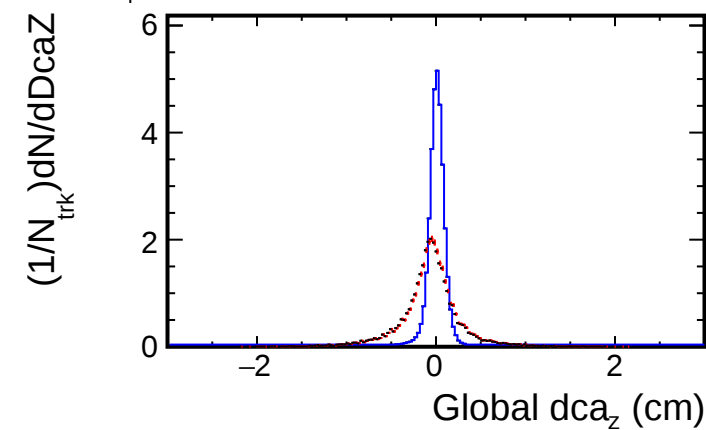
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

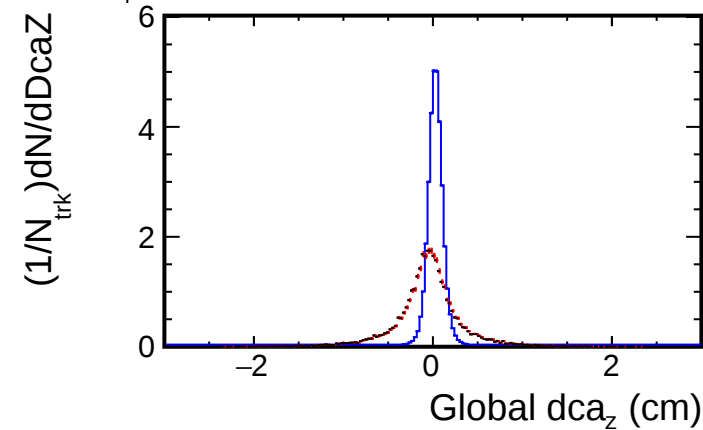


DcaZ distribution for (p_T , η) slices

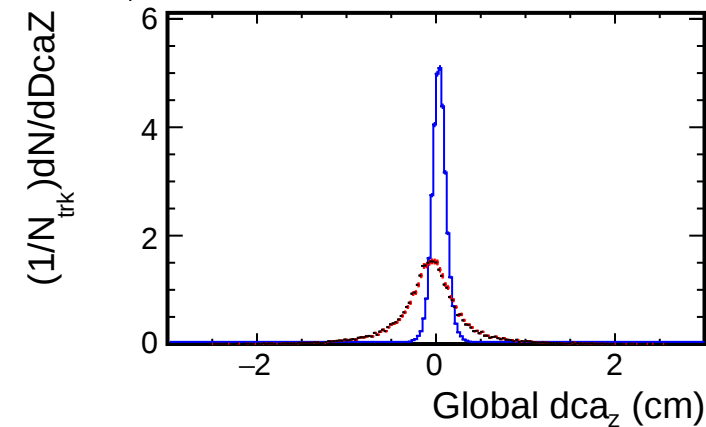
1.8, $1.0 < p_T < 1.5$ (GeV/c)



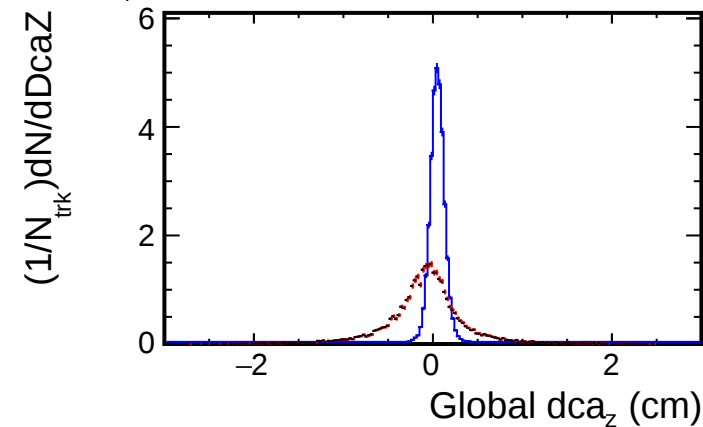
1.6, $1.0 < p_T < 1.5$ (GeV/c)



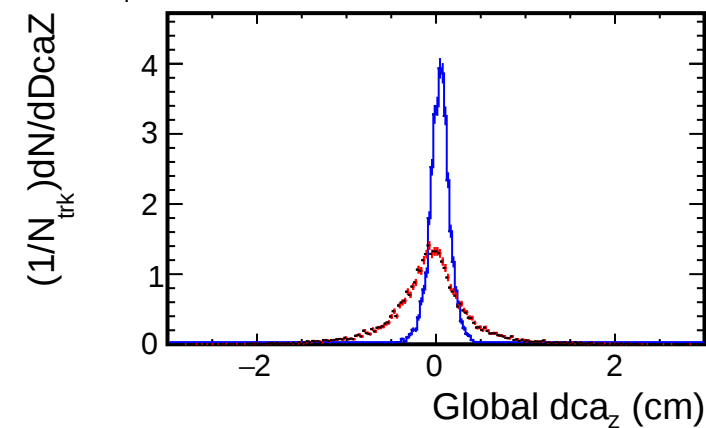
1.4, $1.0 < p_T < 1.5$ (GeV/c)



1.2, $1.0 < p_T < 1.5$ (GeV/c)



1.0, $1.0 < p_T < 1.5$ (GeV/c)

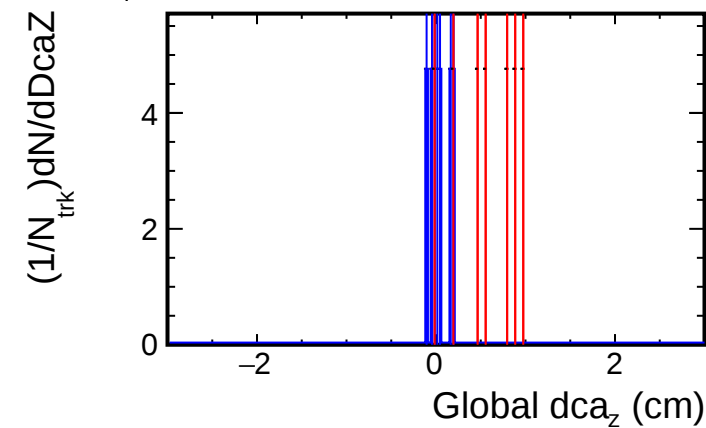


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

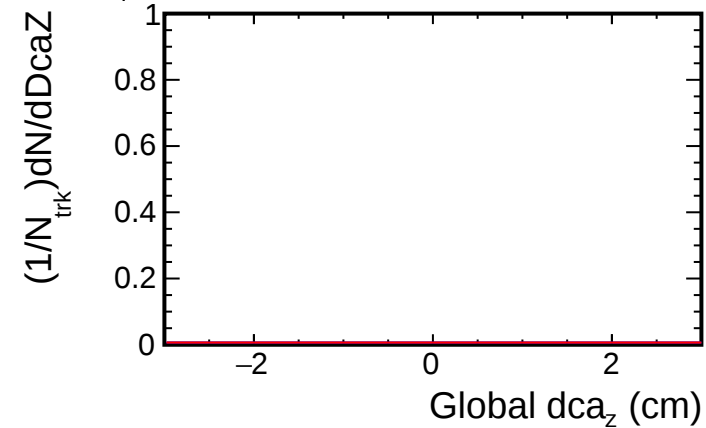
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

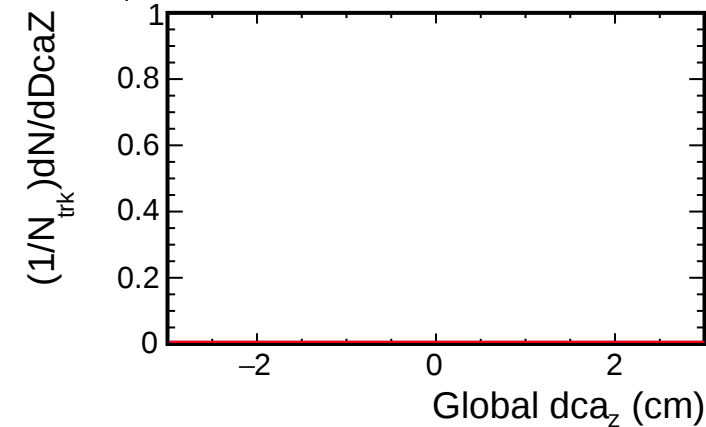
2, $1.0 < p_T < 1.5$ (GeV/c)



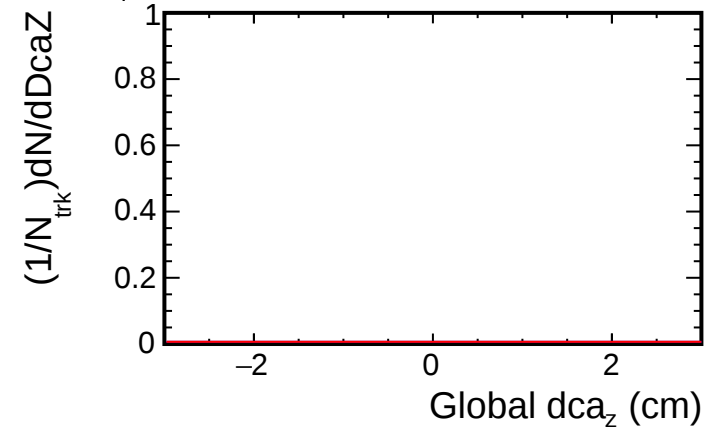
4, $1.0 < p_T < 1.5$ (GeV/c)



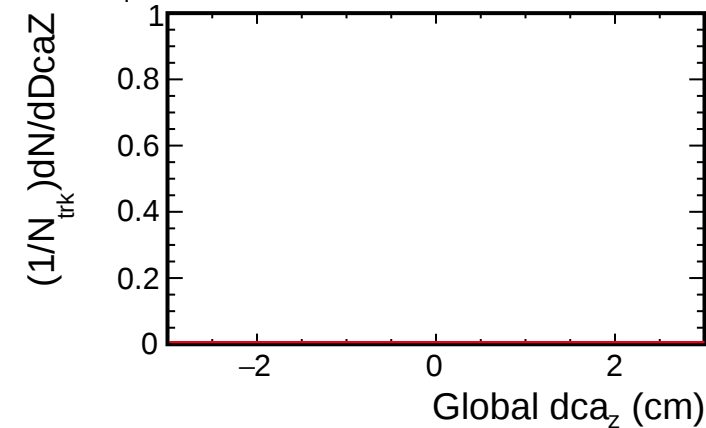
6, $1.0 < p_T < 1.5$ (GeV/c)



8, $1.0 < p_T < 1.5$ (GeV/c)



0, $1.0 < p_T < 1.5$ (GeV/c)

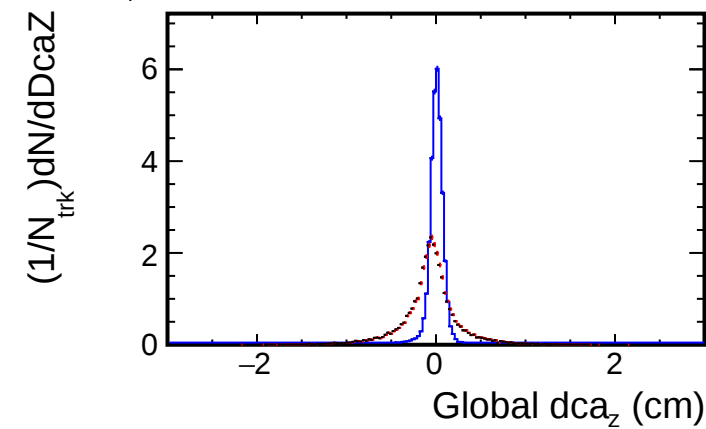


— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

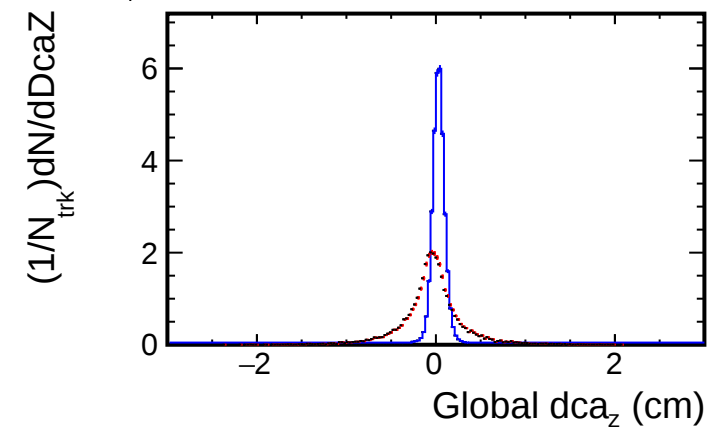
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

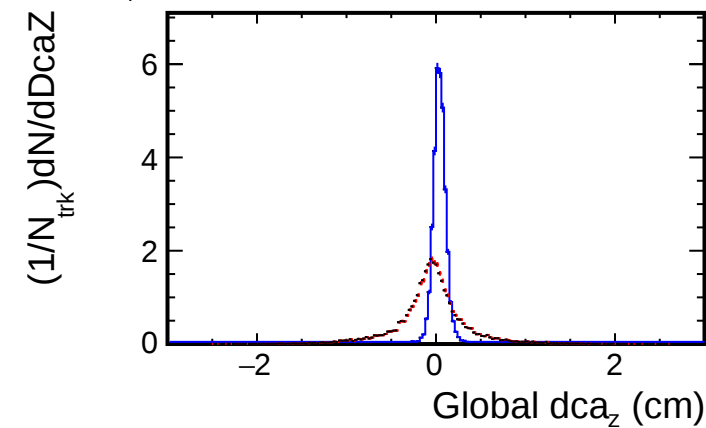
1.8, $1.5 < p_T < 2.0$ (GeV/c)



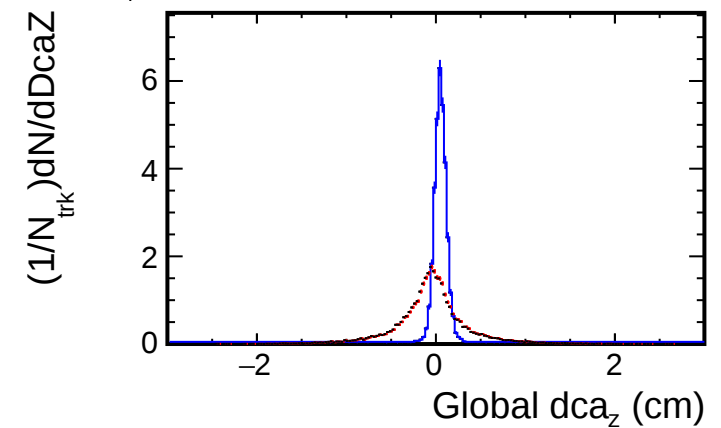
1.6, $1.5 < p_T < 2.0$ (GeV/c)



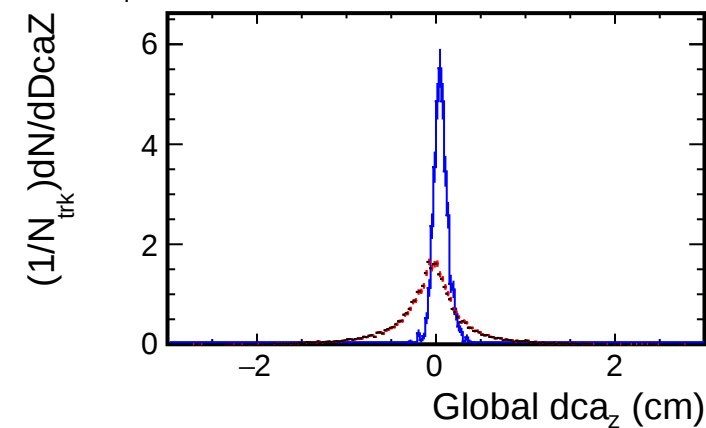
1.4, $1.5 < p_T < 2.0$ (GeV/c)



1.2, $1.5 < p_T < 2.0$ (GeV/c)



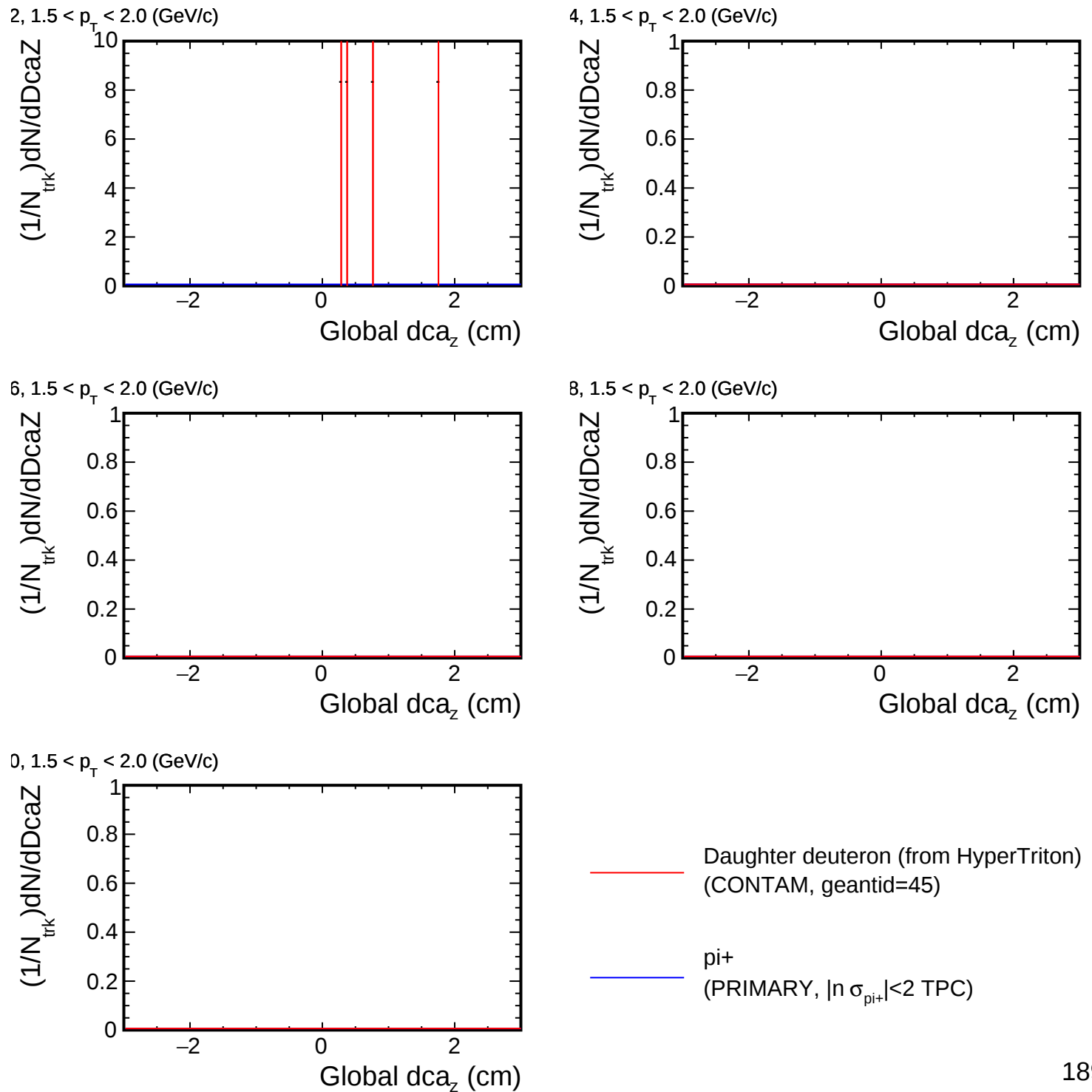
1.0, $1.5 < p_T < 2.0$ (GeV/c)



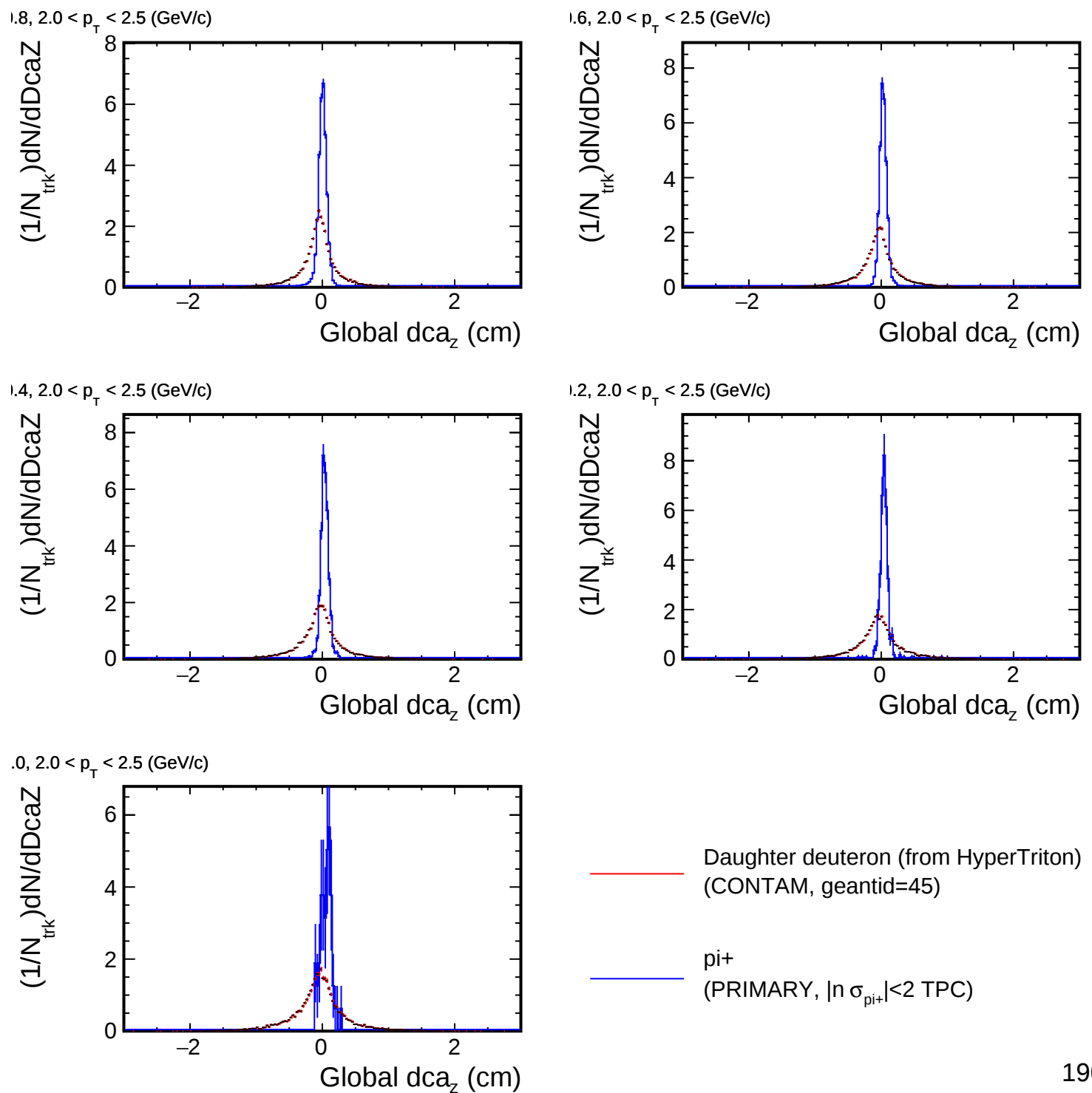
— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

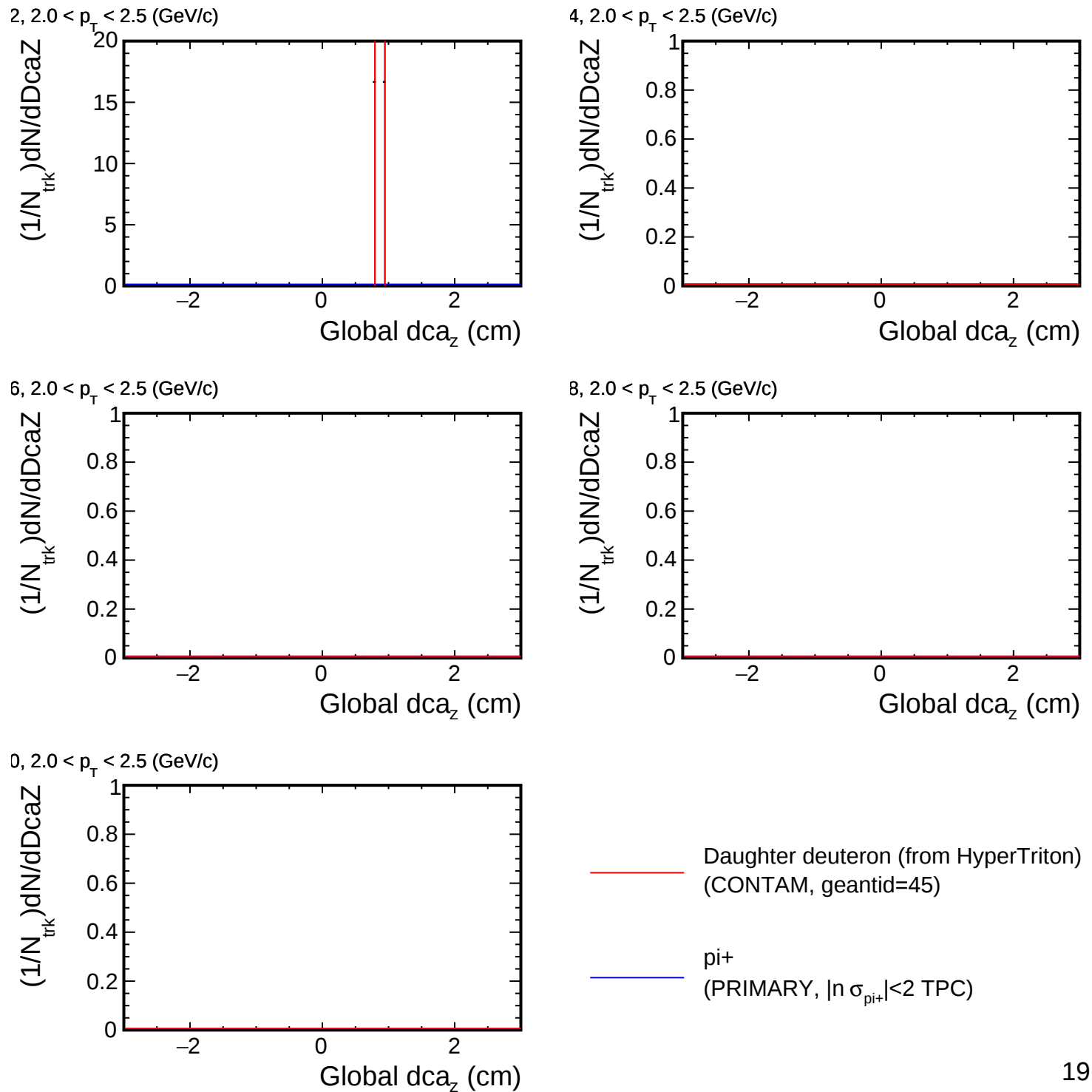
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

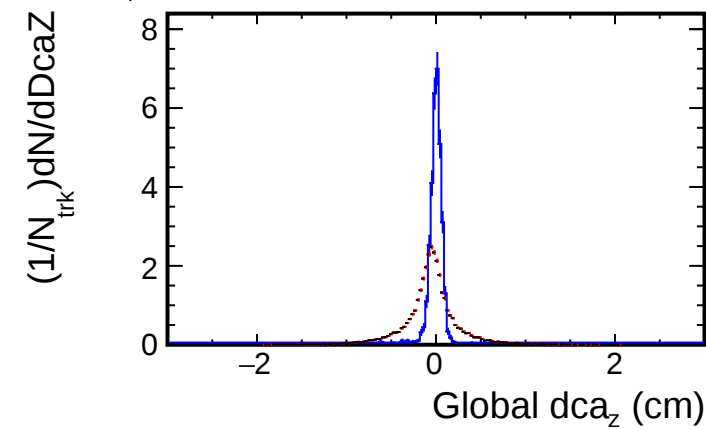


DcaZ distribution for (p_T , η) slices

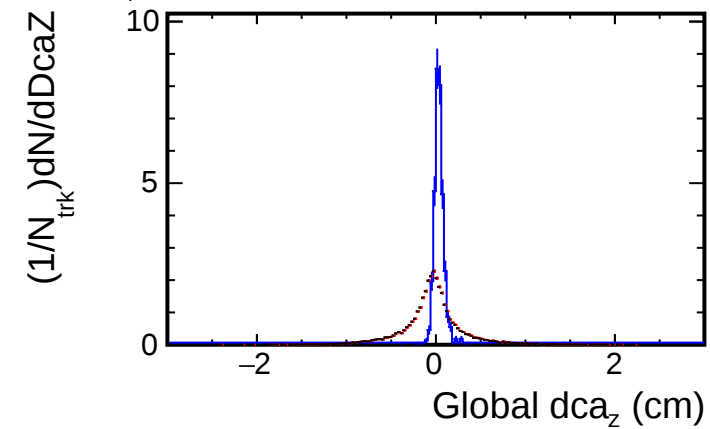


DcaZ distribution for (p_T , η) slices

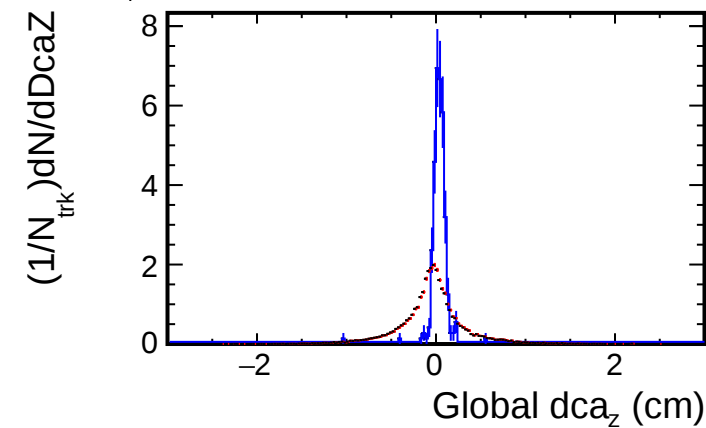
1.8, $2.5 < p_T < 3.0$ (GeV/c)



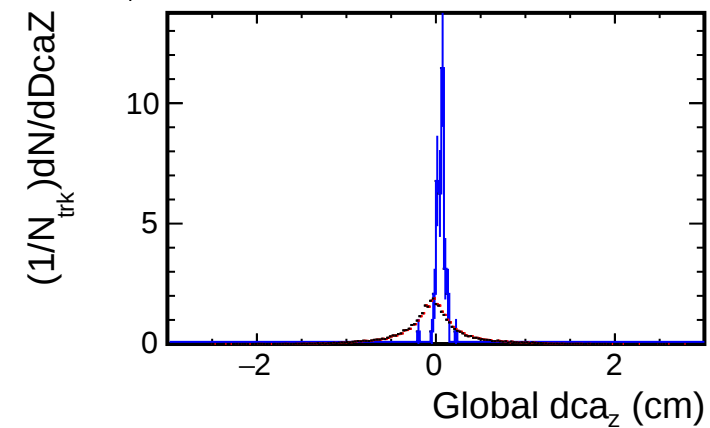
1.6, $2.5 < p_T < 3.0$ (GeV/c)



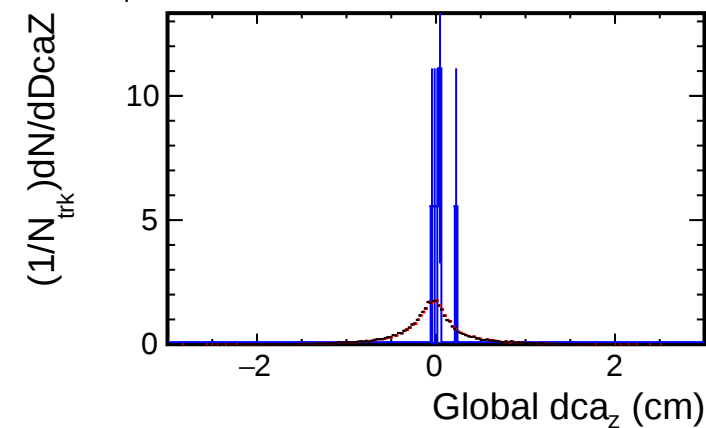
1.4, $2.5 < p_T < 3.0$ (GeV/c)



1.2, $2.5 < p_T < 3.0$ (GeV/c)



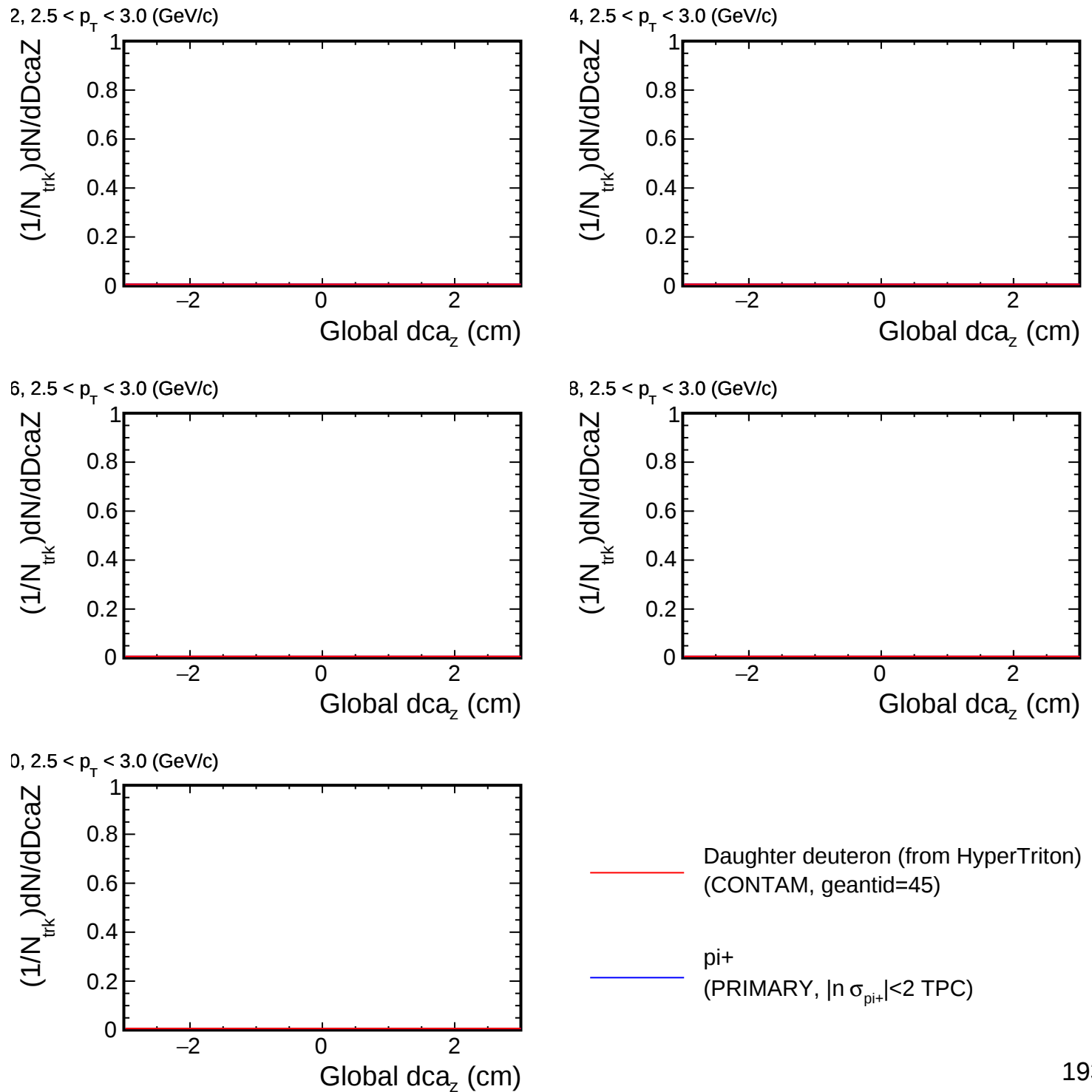
1.0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

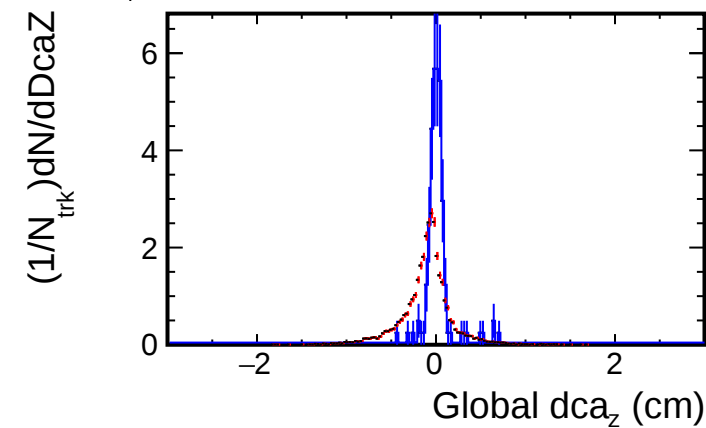
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

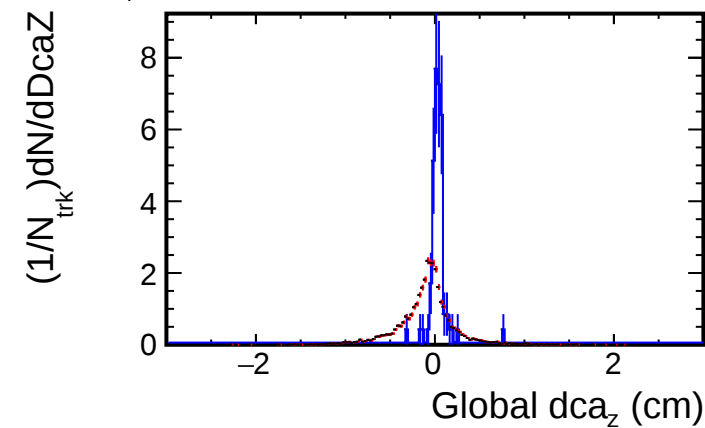


DcaZ distribution for (p_T , η) slices

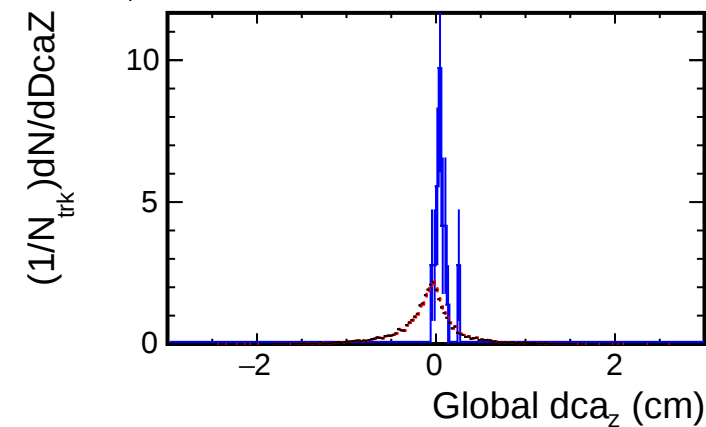
1.8, $3.0 < p_T < 3.5$ (GeV/c)



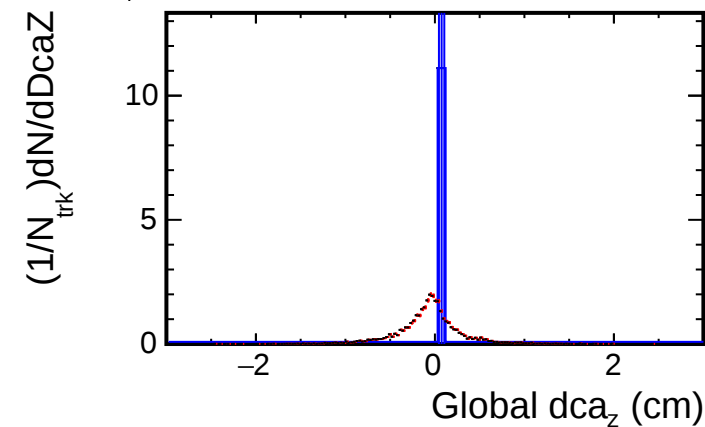
1.6, $3.0 < p_T < 3.5$ (GeV/c)



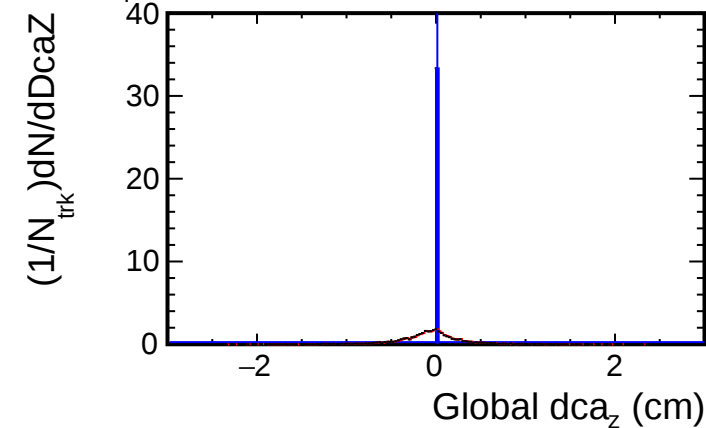
1.4, $3.0 < p_T < 3.5$ (GeV/c)



1.2, $3.0 < p_T < 3.5$ (GeV/c)



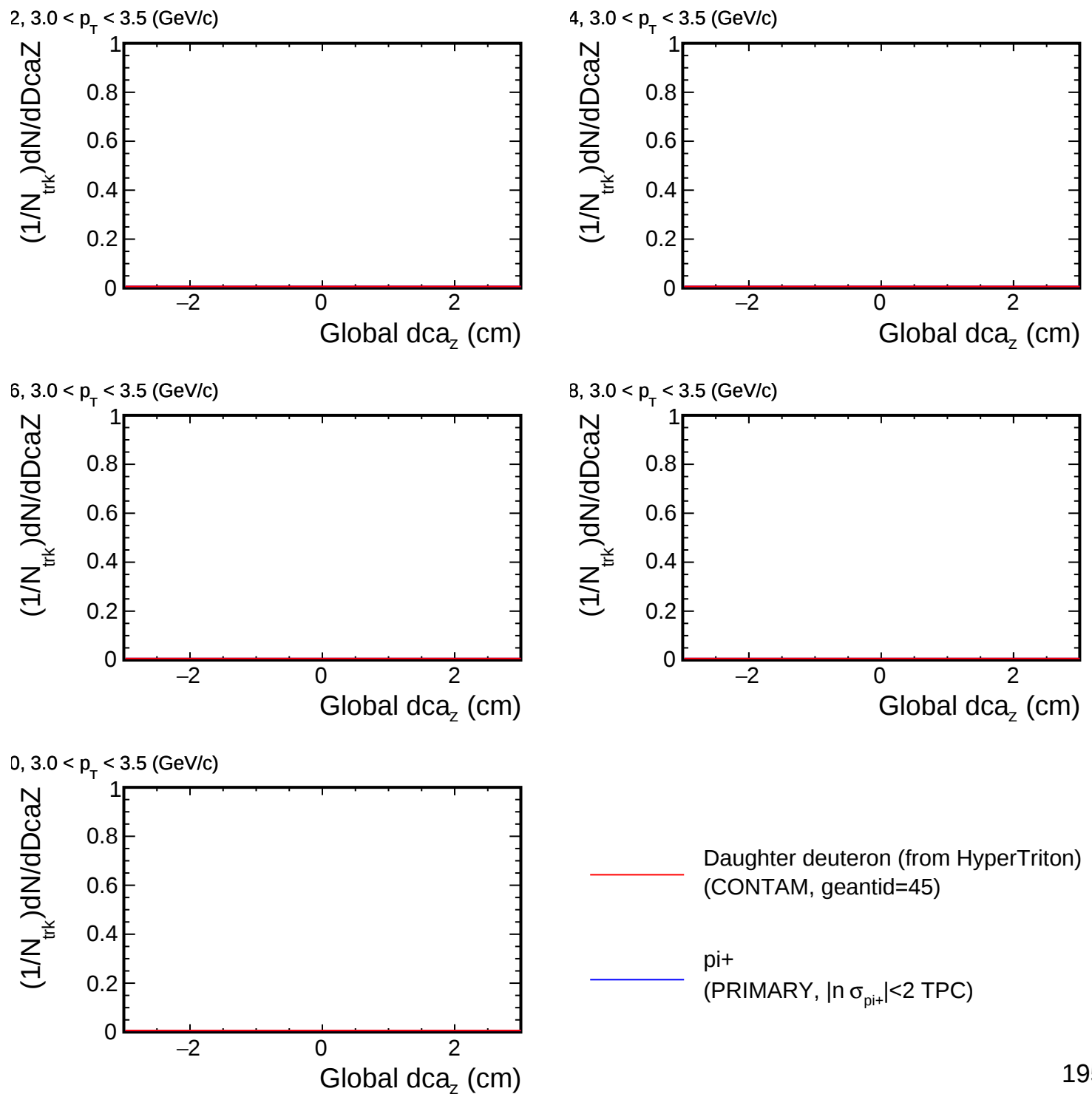
1.0, $3.0 < p_T < 3.5$ (GeV/c)



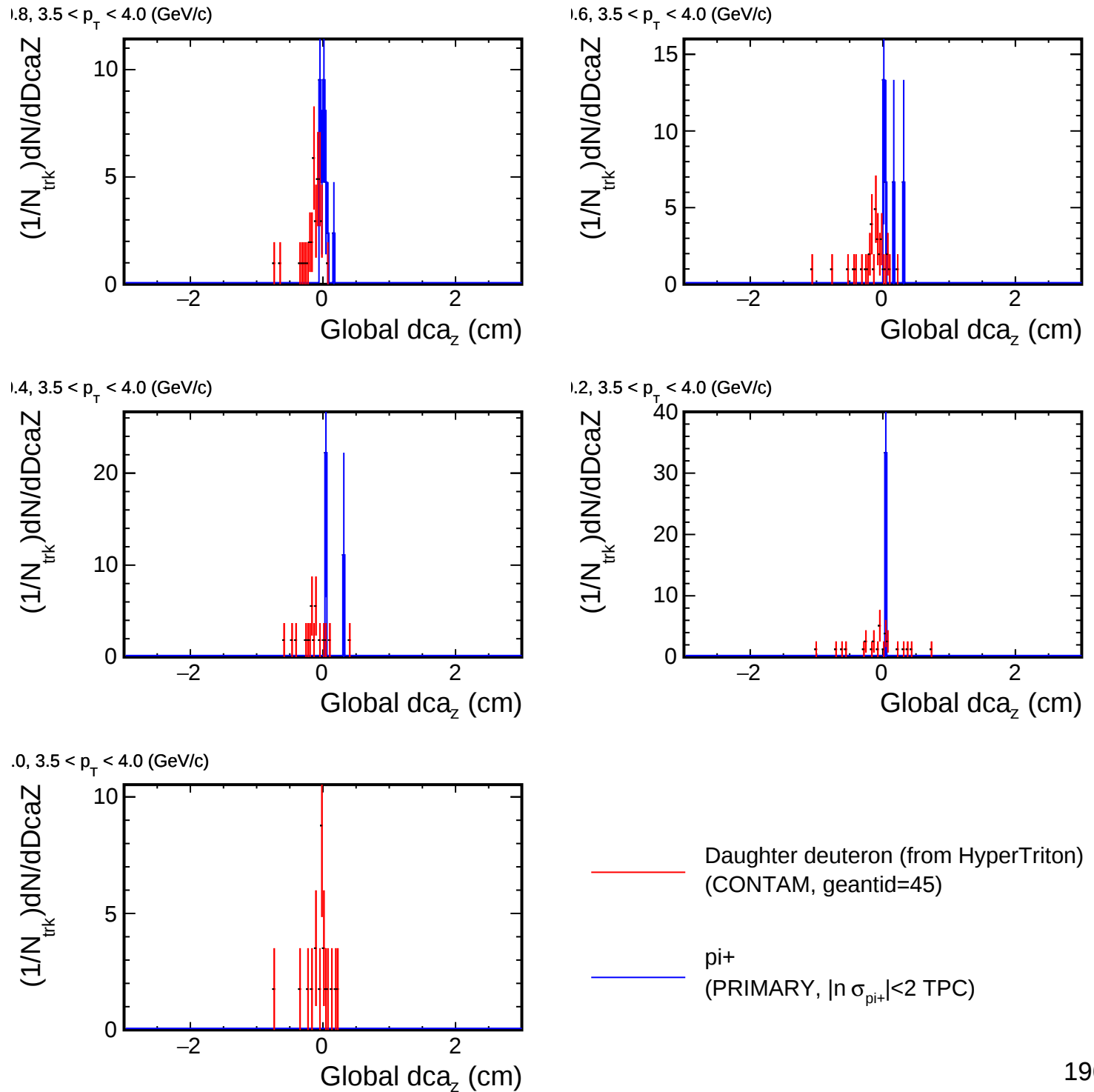
— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

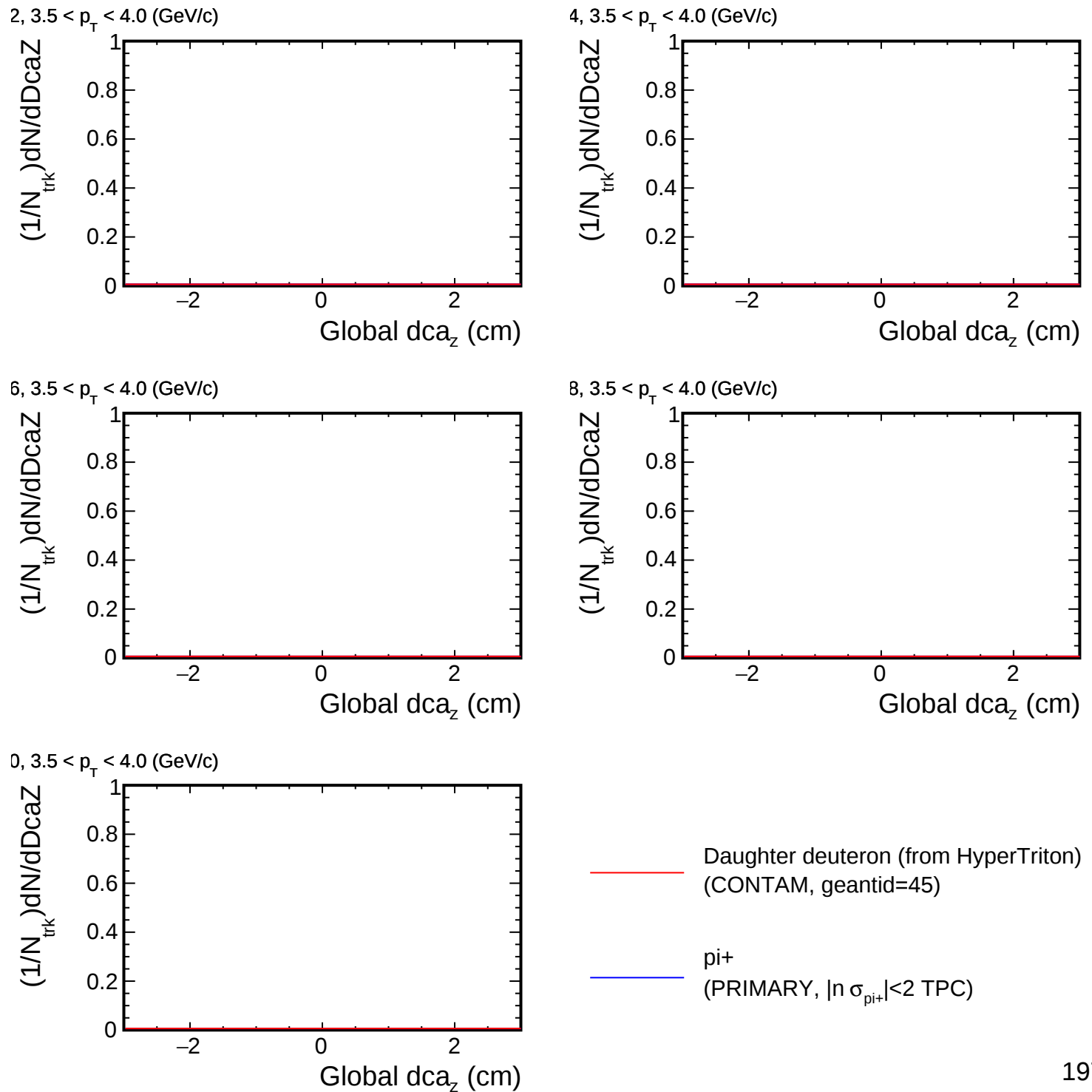
DcaZ distribution for (p_T , η) slices



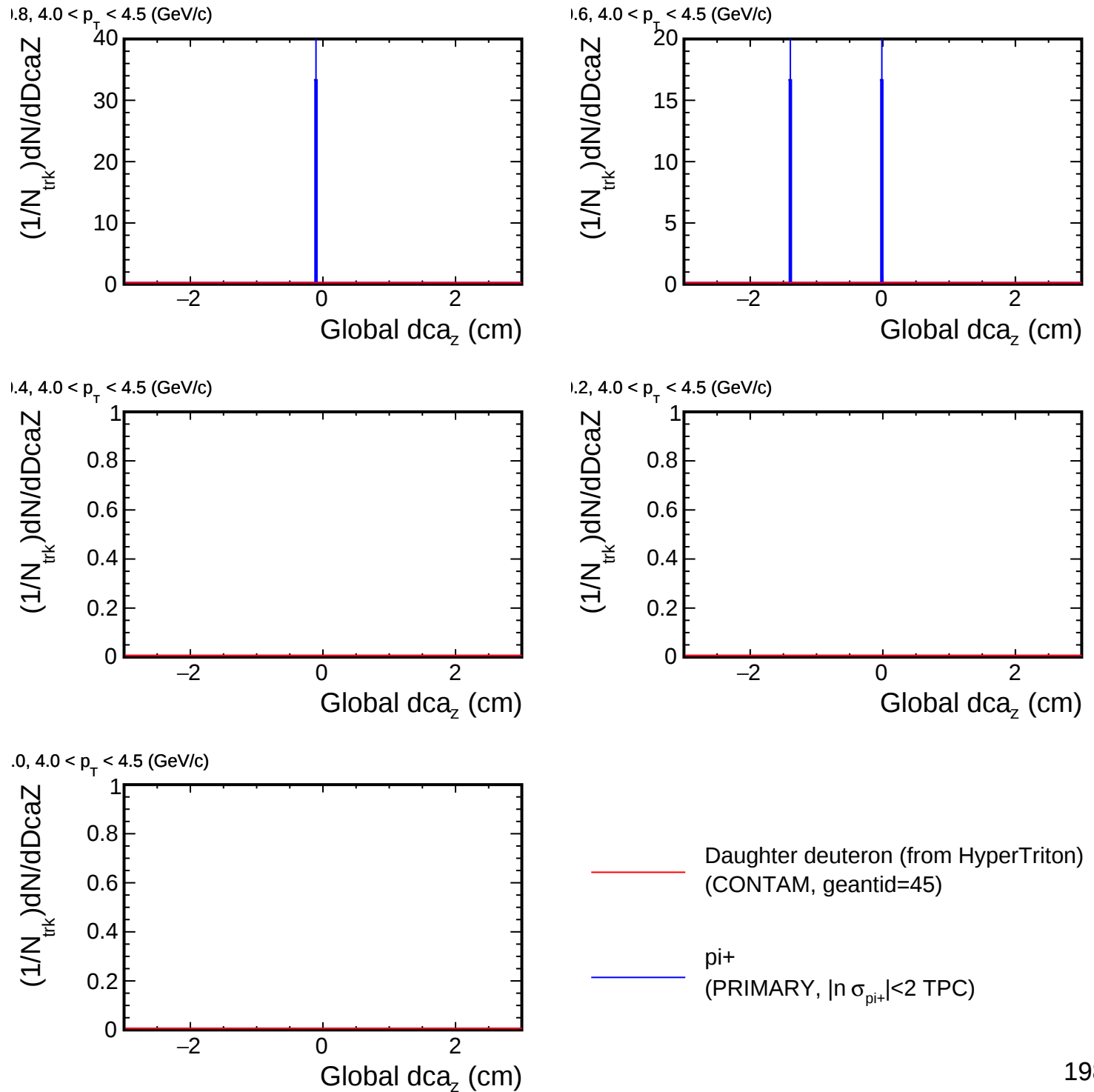
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

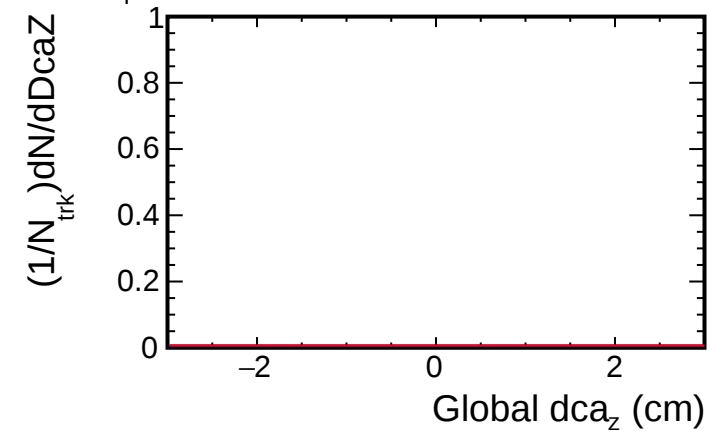


DcaZ distribution for (p_T , η) slices

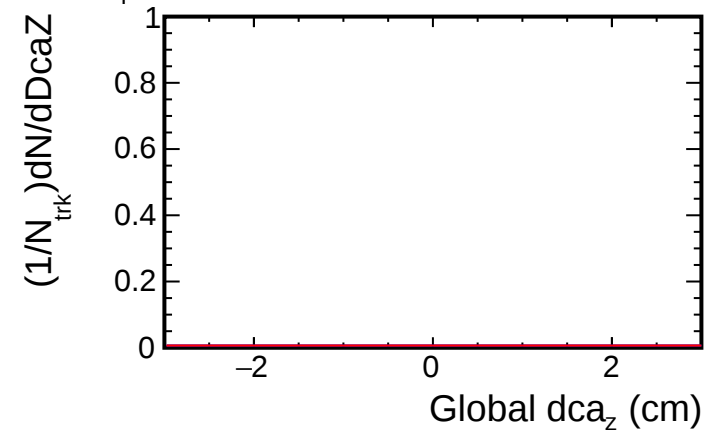


DcaZ distribution for (p_T , η) slices

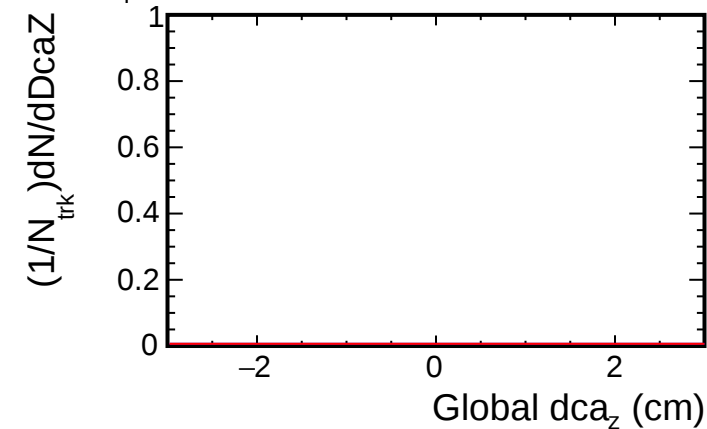
2, $4.0 < p_T < 4.5$ (GeV/c)



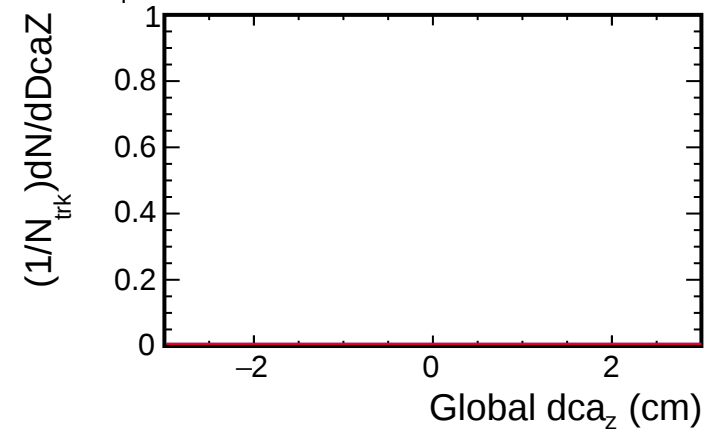
4, $4.0 < p_T < 4.5$ (GeV/c)



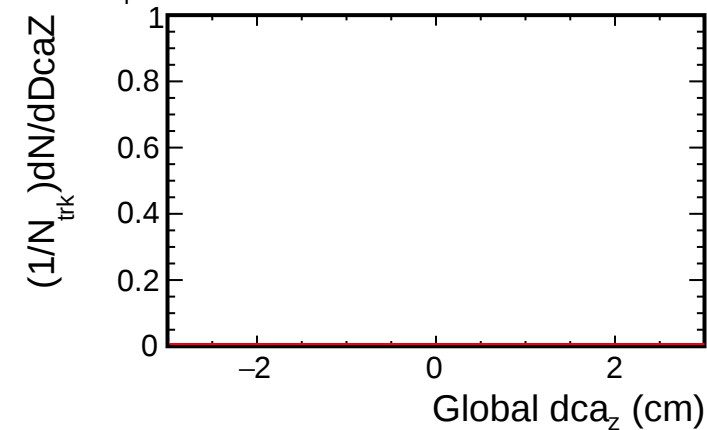
6, $4.0 < p_T < 4.5$ (GeV/c)



8, $4.0 < p_T < 4.5$ (GeV/c)



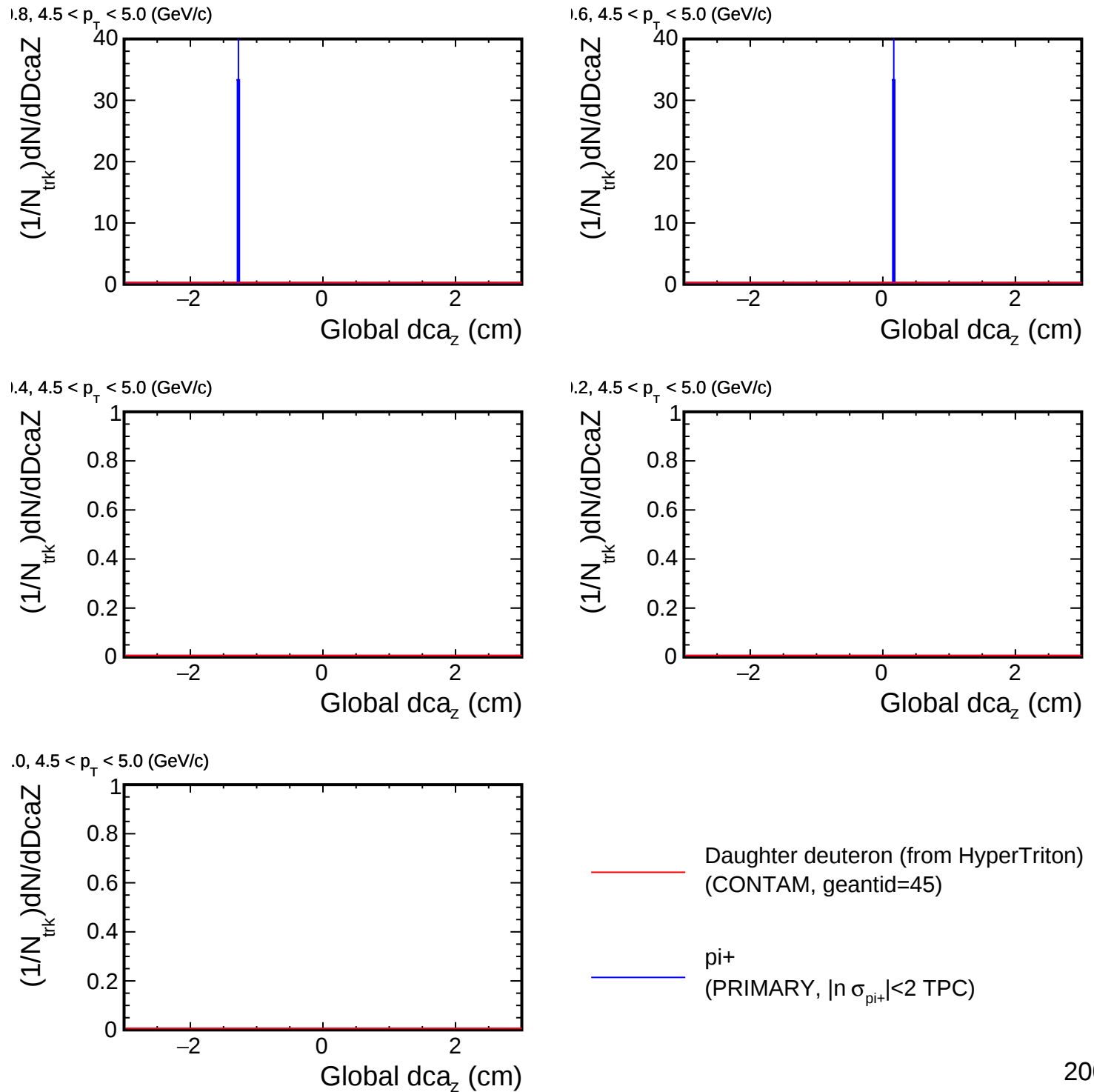
0, $4.0 < p_T < 4.5$ (GeV/c)



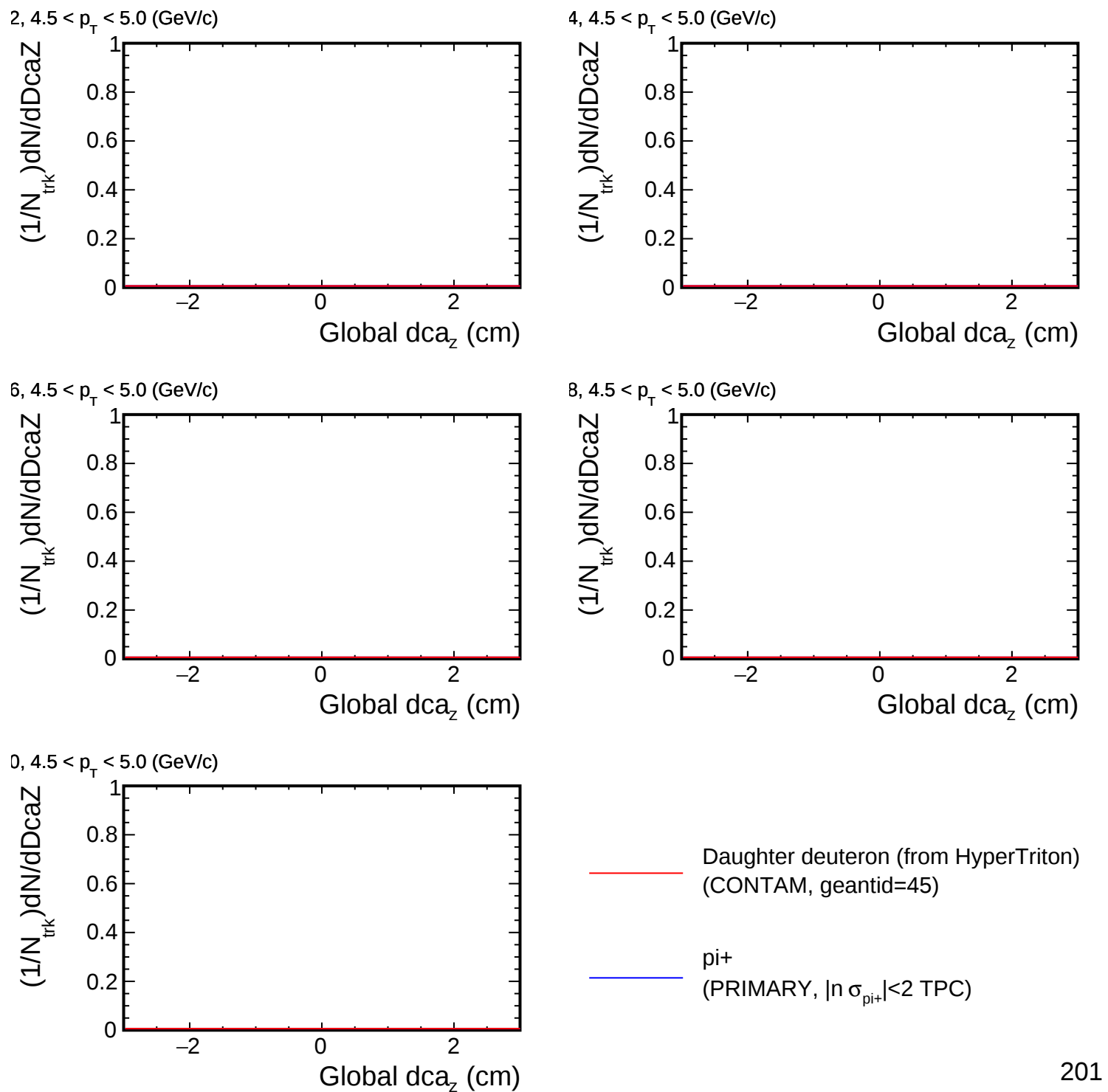
— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

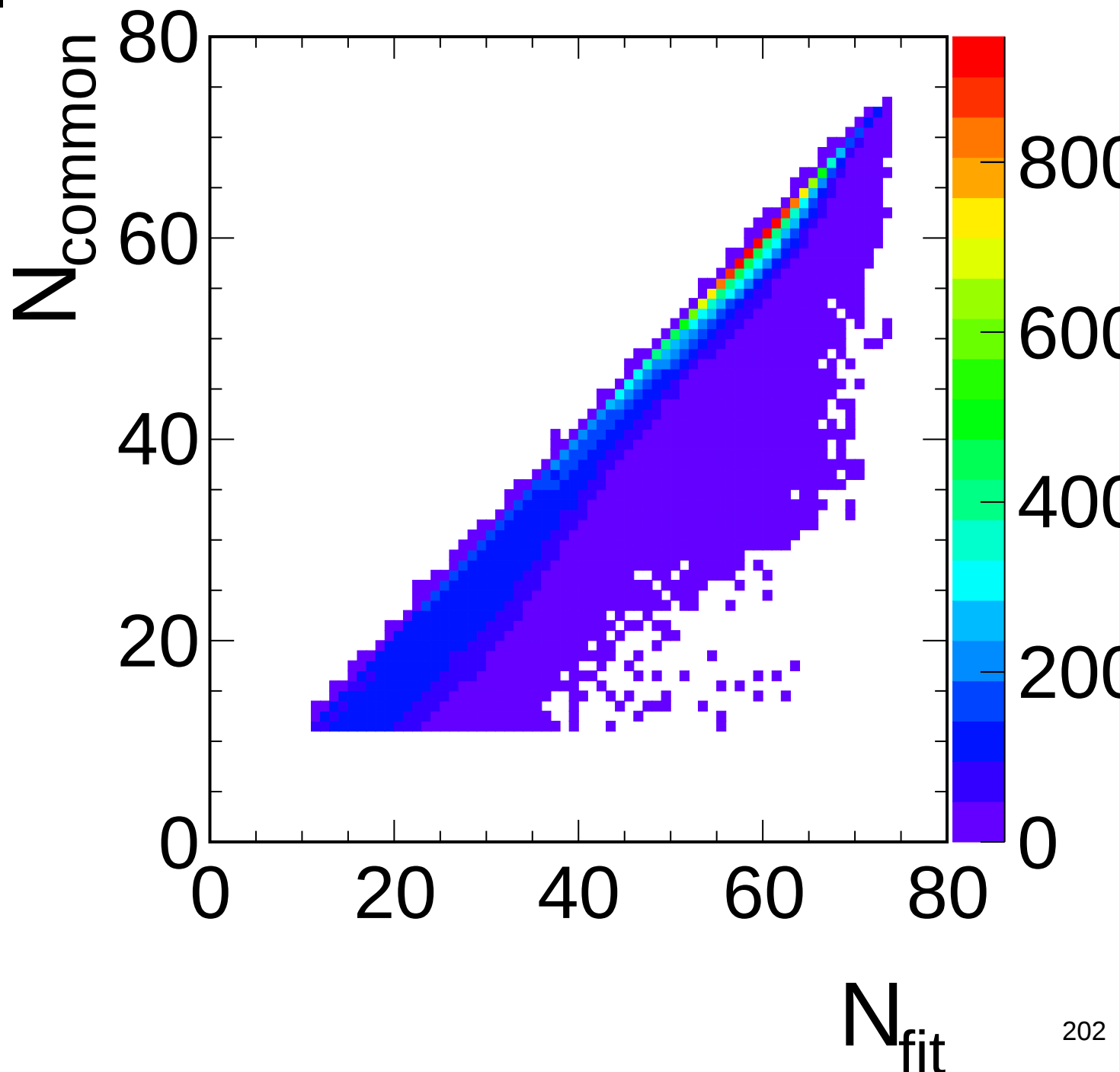


DcaZ distribution for (p_T , η) slices



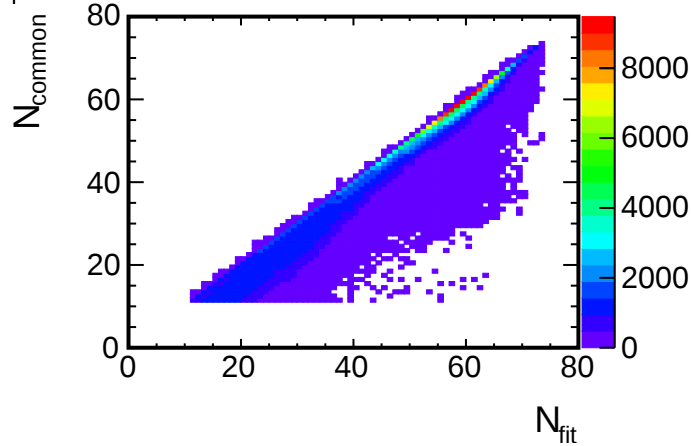
N_{common} vs N_{hit} (Embedding:pi-, Real:pi-)

$p_T < 5.0$ GeV/c

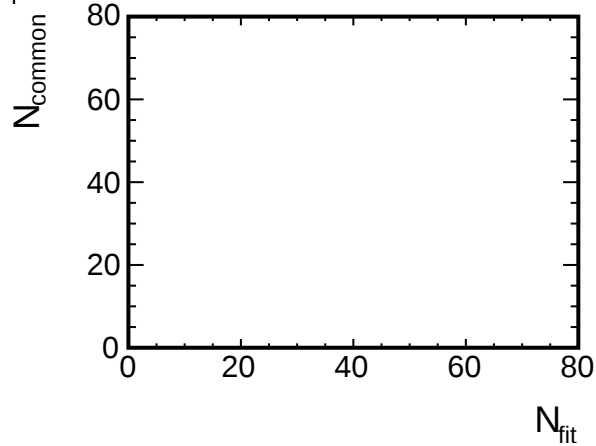


N_{common} vs N_{hit} , p_T dependence (Embedding:pi-, Real:pi-)

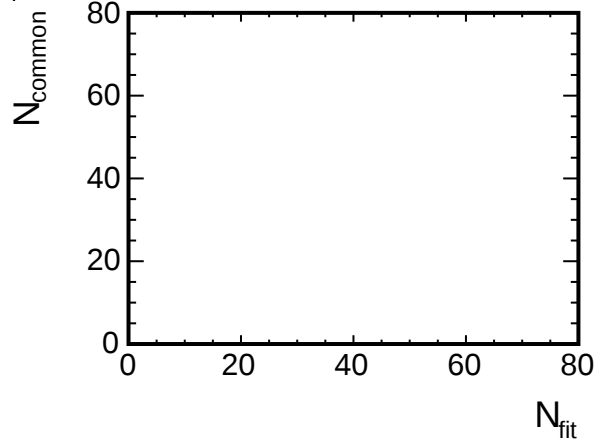
$< p_T < 0.5$ GeV/c



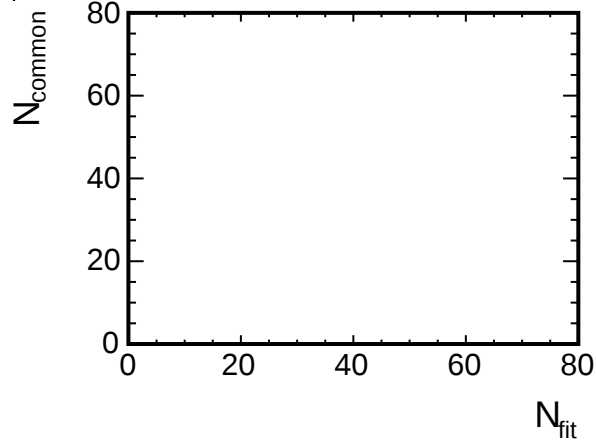
$< p_T < 1.0$ GeV/c



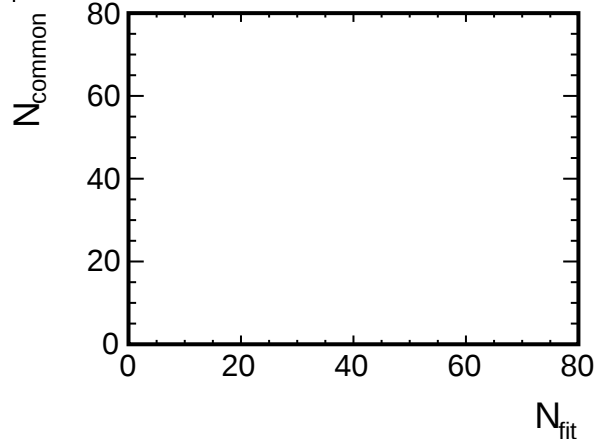
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

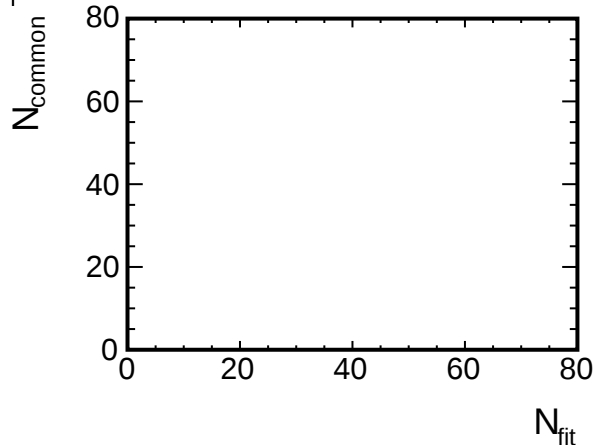


$< p_T < 2.5$ GeV/c

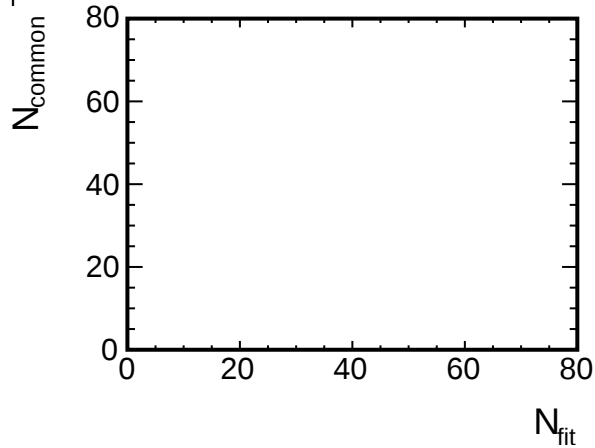


N_{common} vs N_{hit} , p_T dependence (Embedding:pi-, Real:pi-)

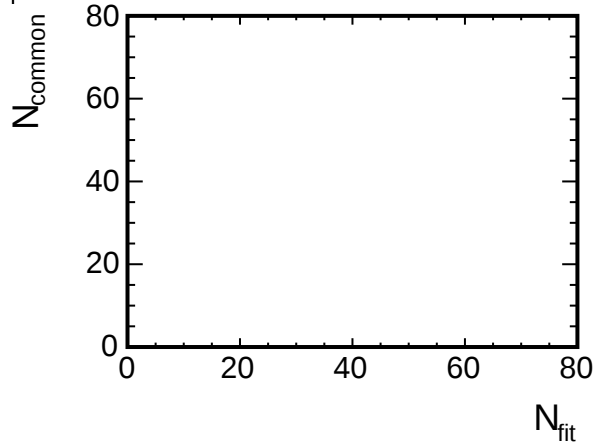
$< p_T < 3.0$ GeV/c



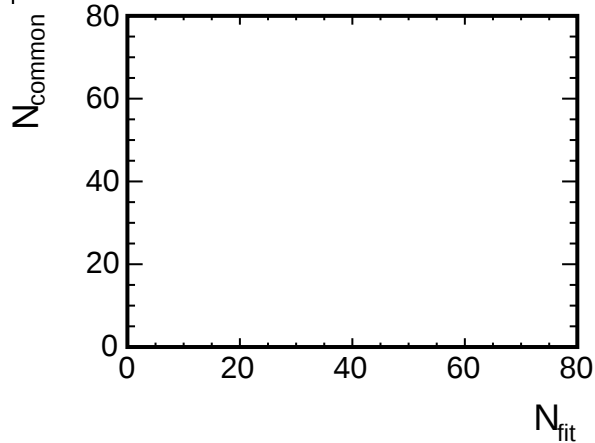
$< p_T < 3.5$ GeV/c



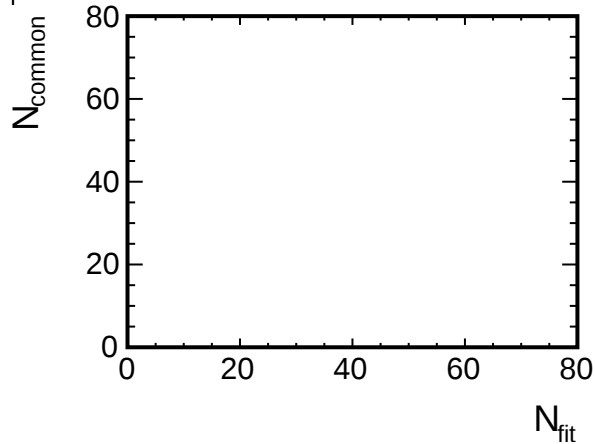
$< p_T < 4.0$ GeV/c



$< p_T < 4.5$ GeV/c

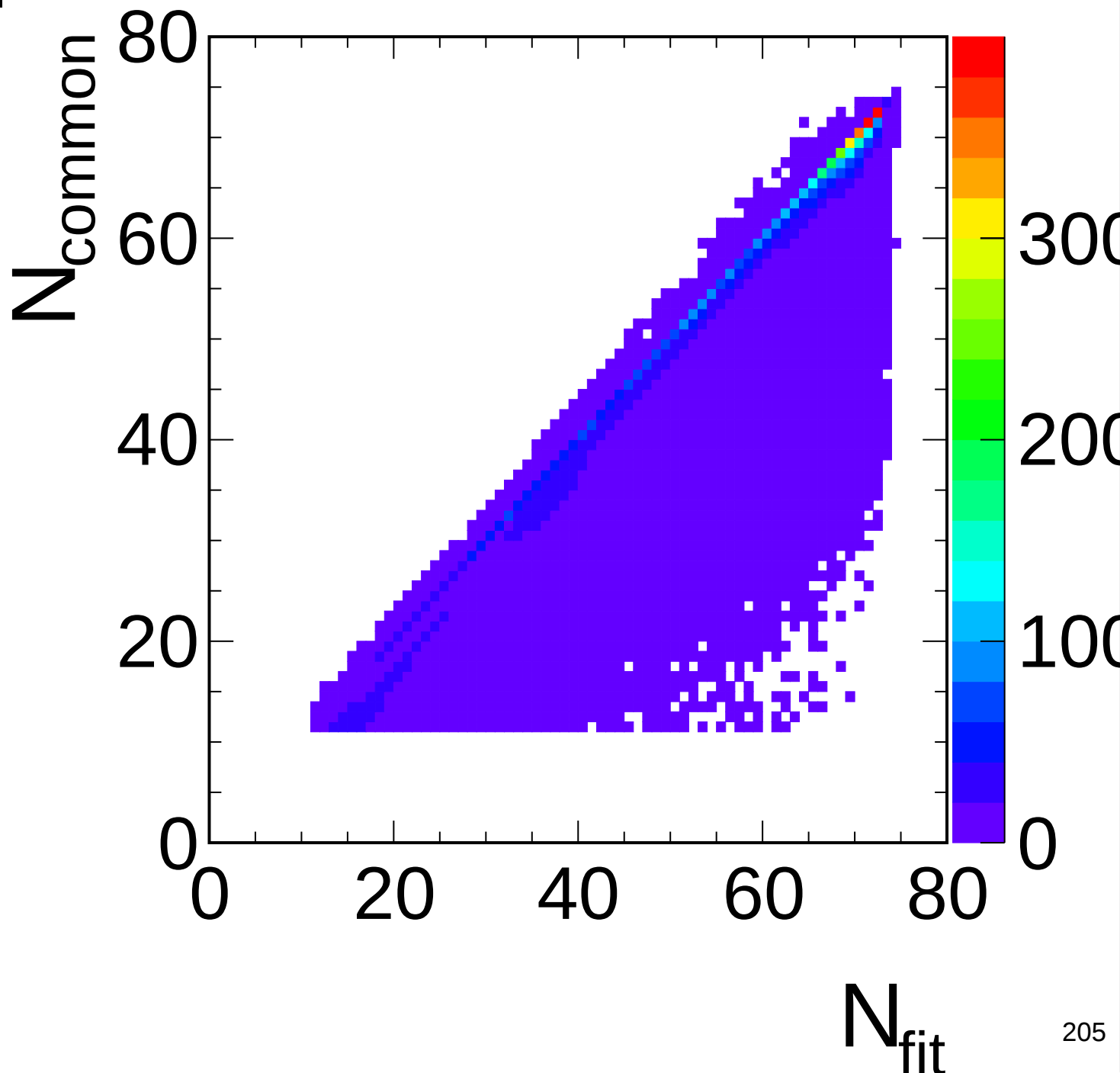


$< p_T < 5.0$ GeV/c



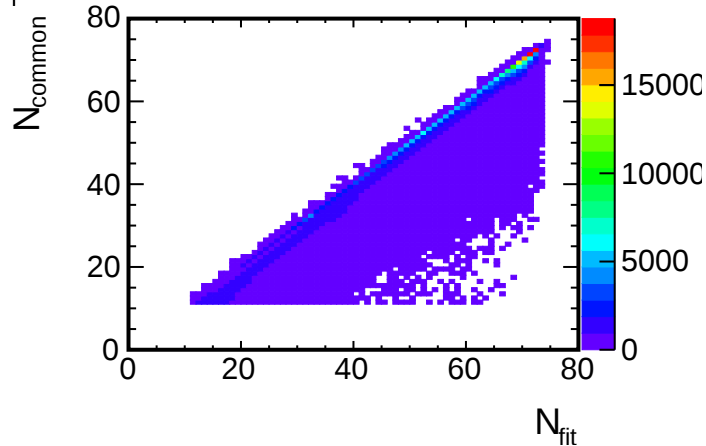
N_{common} vs N_{hit} (Embedding:proton, Real:proton)

$p_T < 5.0 \text{ GeV}/c$

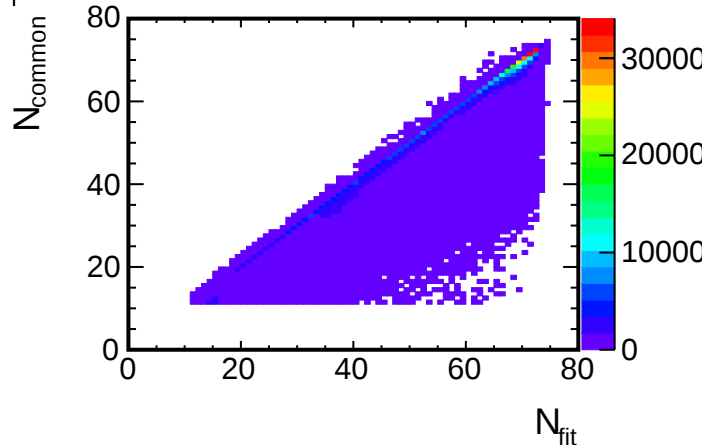


N_{common} vs N_{hit} , p_T dependence (Embedding:proton, Real:proton)

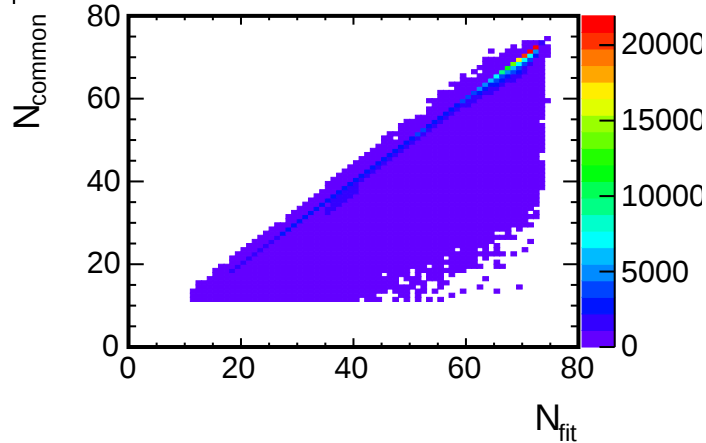
$< p_T < 0.5$ GeV/c



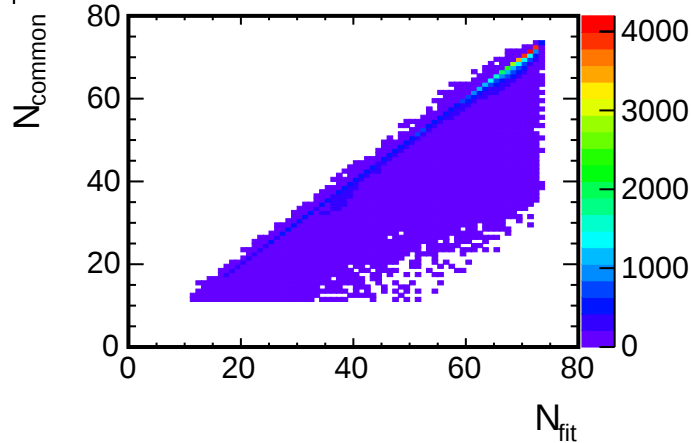
$< p_T < 1.0$ GeV/c



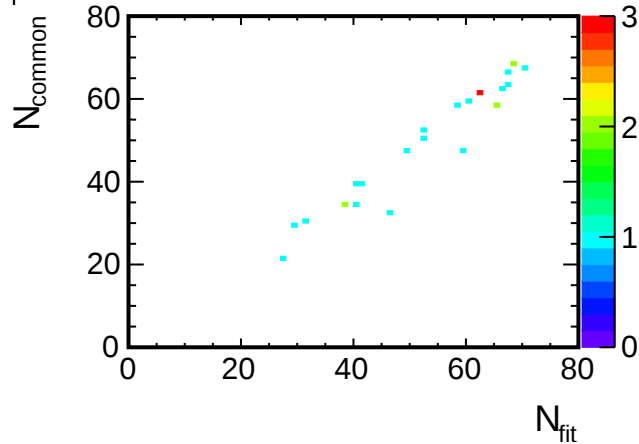
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

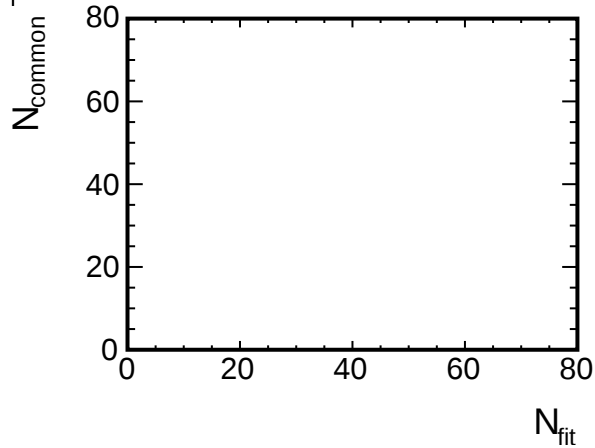


$< p_T < 2.5$ GeV/c

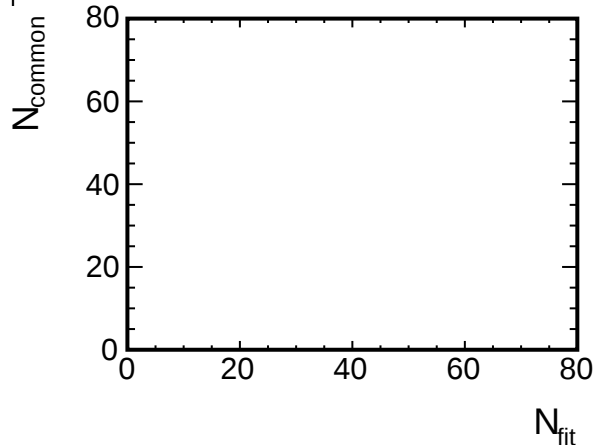


N_{common} vs N_{hit} , p_T dependence (Embedding:proton, Real:proton)

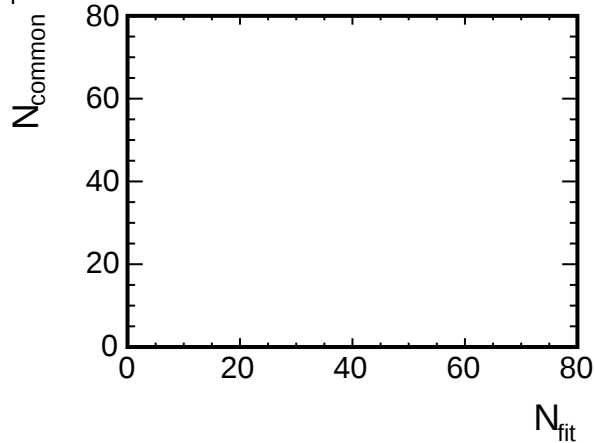
$< p_T < 3.0$ GeV/c



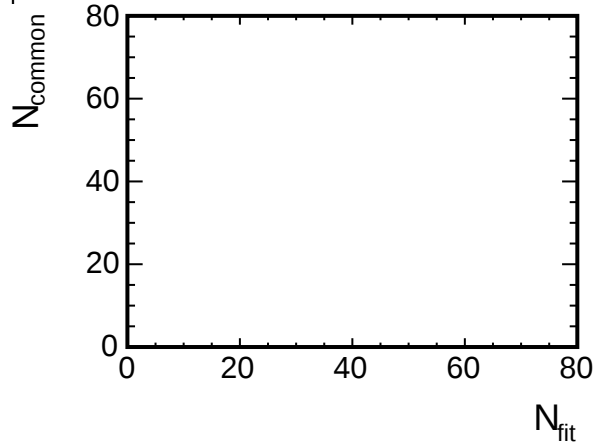
$< p_T < 3.5$ GeV/c



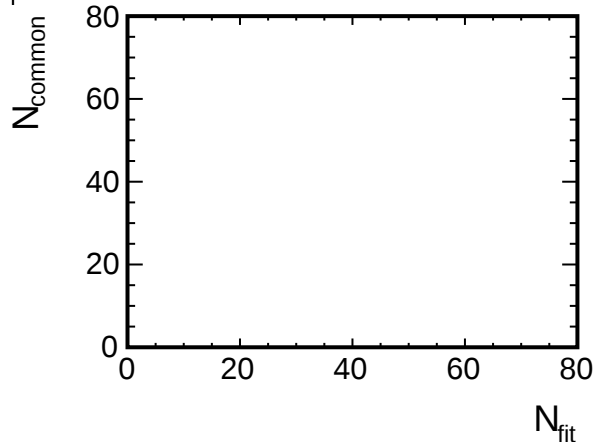
$< p_T < 4.0$ GeV/c



$< p_T < 4.5$ GeV/c

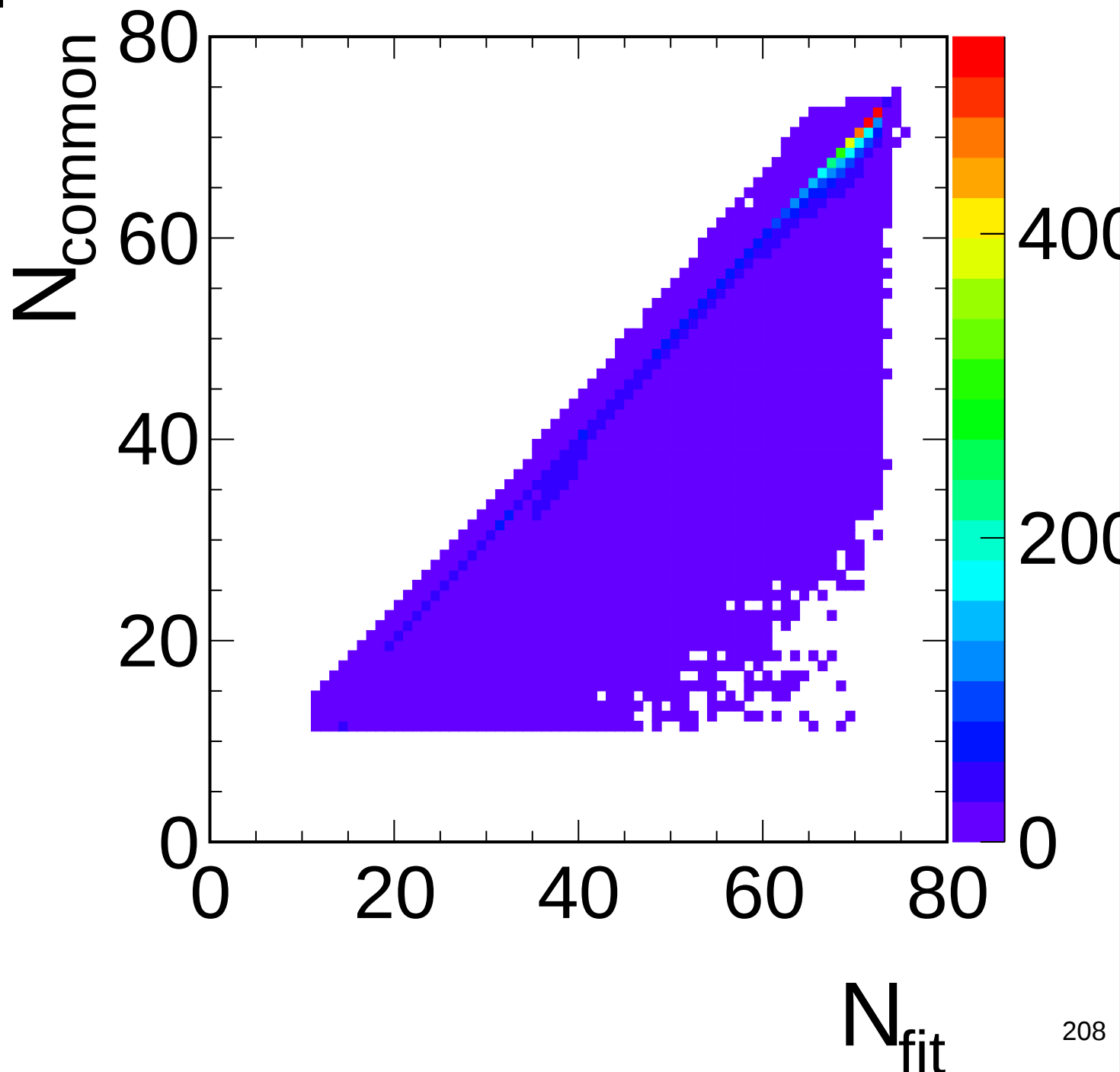


$< p_T < 5.0$ GeV/c



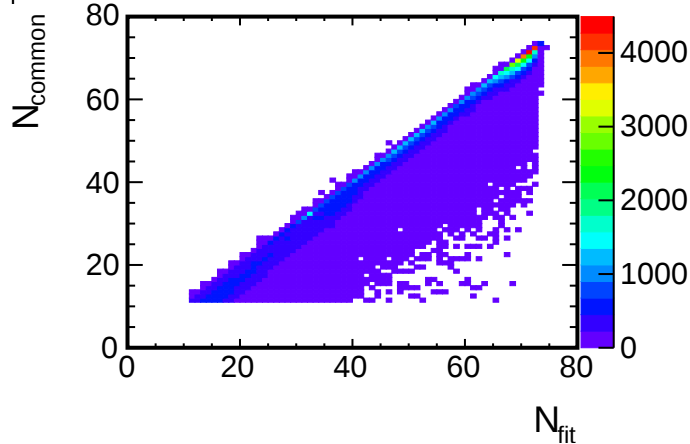
N_{common} vs N_{hit} (Embedding:deuteron, Real:deuteron)

$p_T < 5.0$ GeV/c

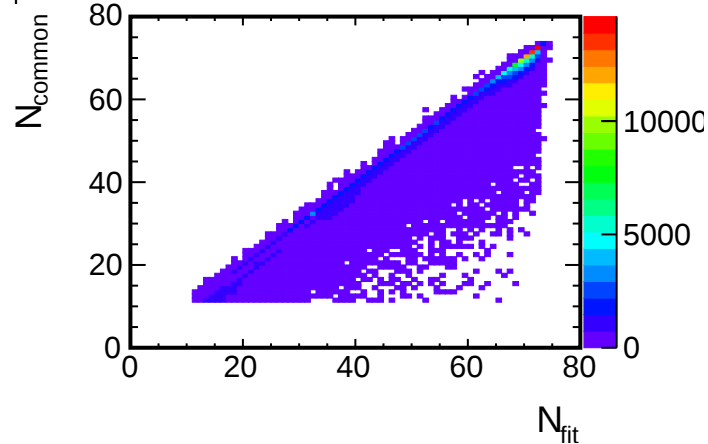


N_{common} vs N_{hit} , p_T dependence (Embedding:deuteron, Real:deuteron)

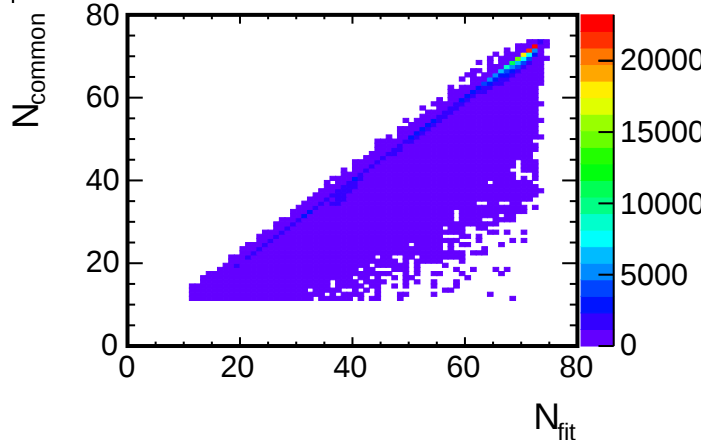
$< p_T < 0.5$ GeV/c



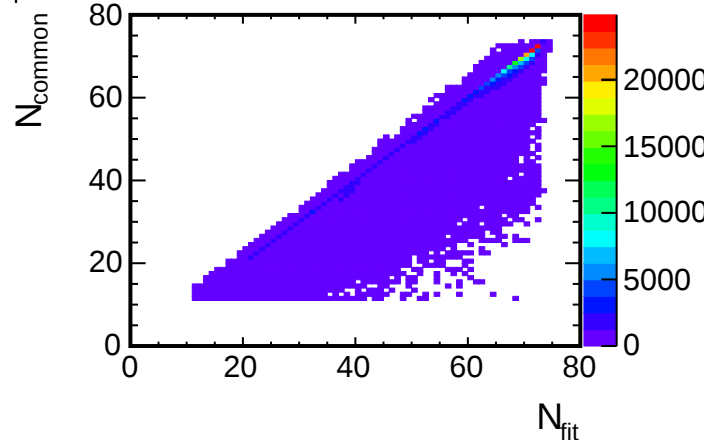
$< p_T < 1.0$ GeV/c



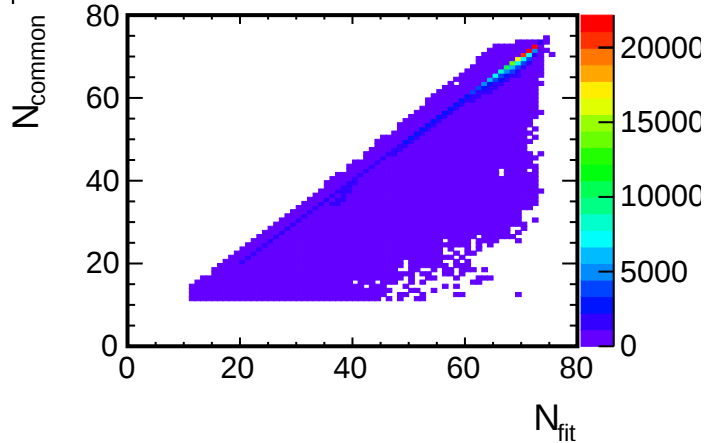
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

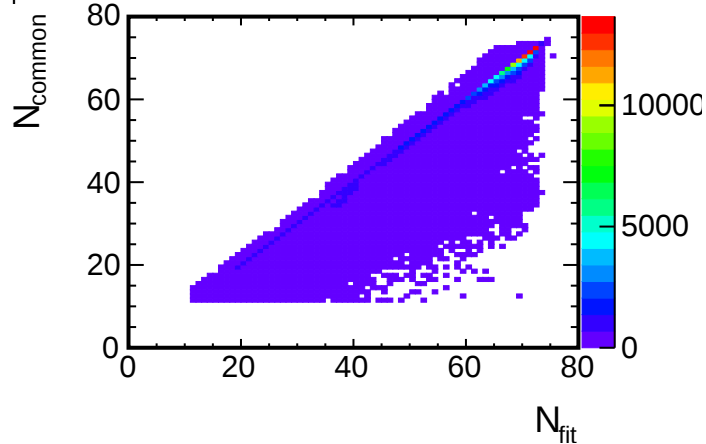


$< p_T < 2.5$ GeV/c

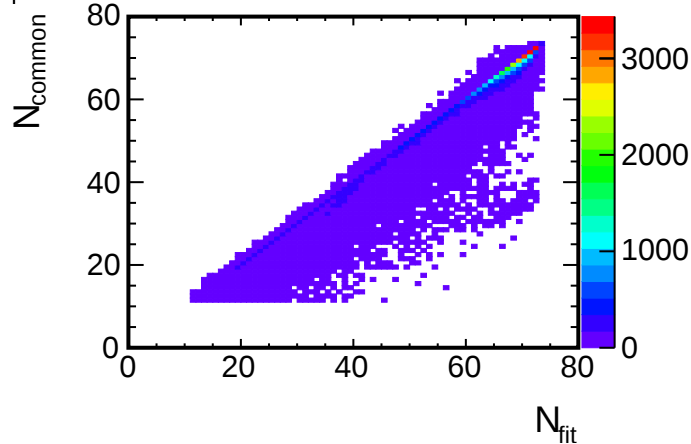


N_{common} vs N_{hit} , p_T dependence (Embedding:deuteron, Real:deuteron)

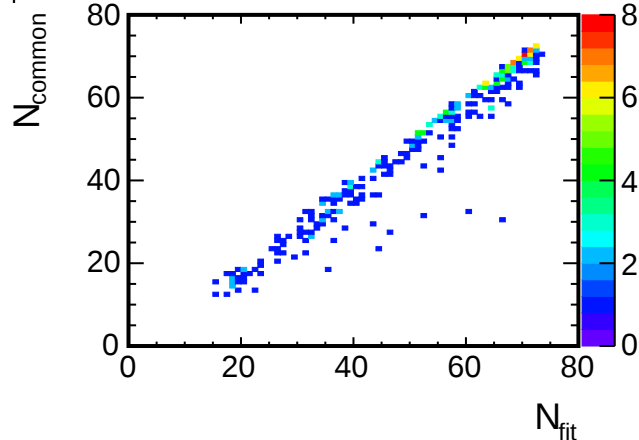
$< p_T < 3.0$ GeV/c



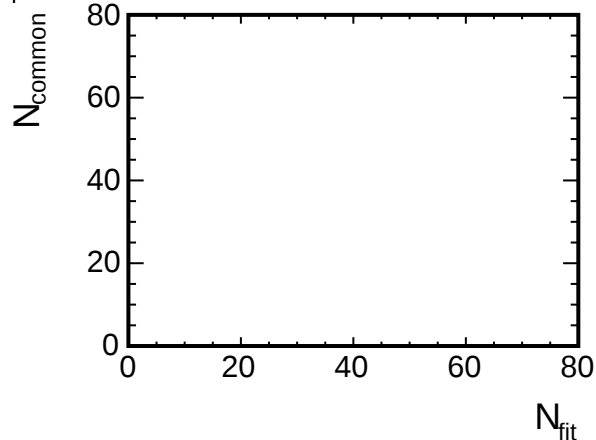
$< p_T < 3.5$ GeV/c



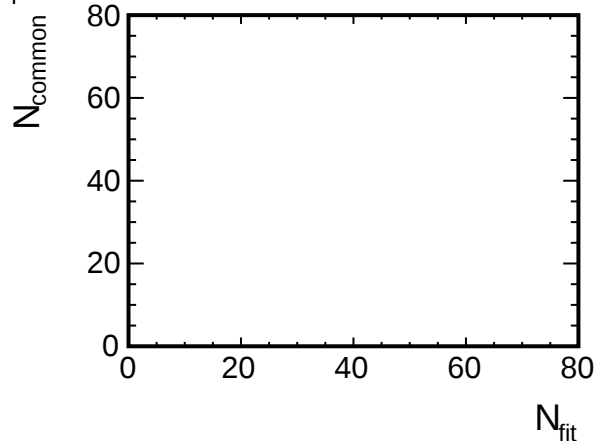
$< p_T < 4.0$ GeV/c



$< p_T < 4.5$ GeV/c

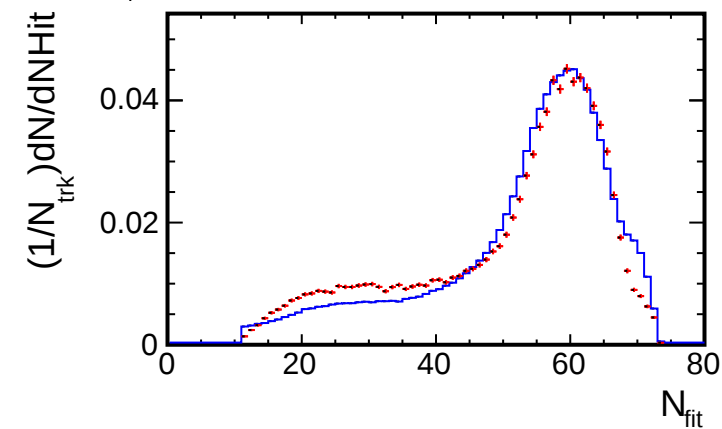


$< p_T < 5.0$ GeV/c

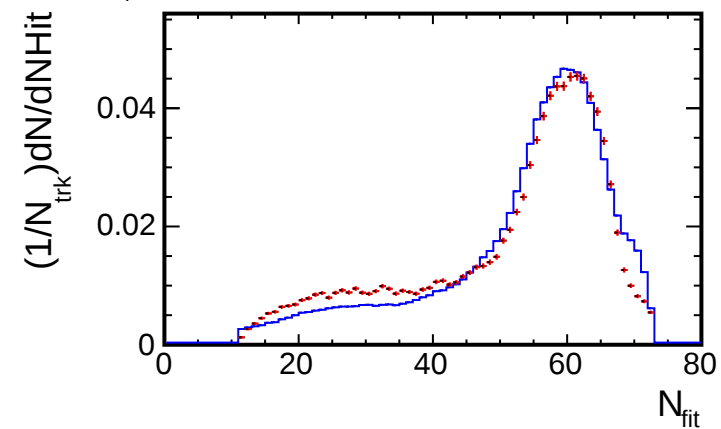


NHit distribution for (p_T , η) slices

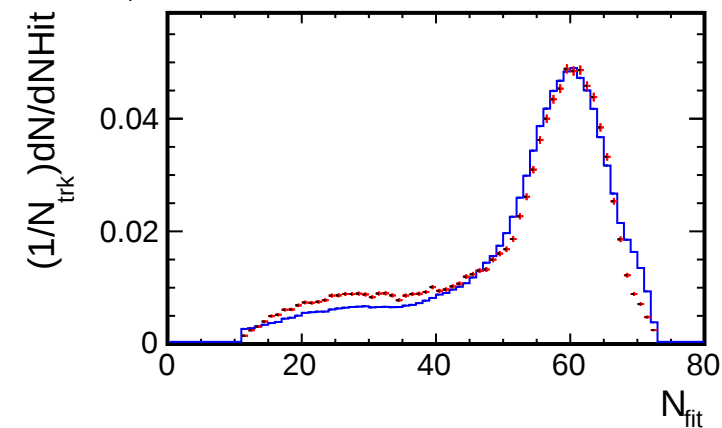
1.8, $0.1 < p_T < 0.5$ (GeV/c)



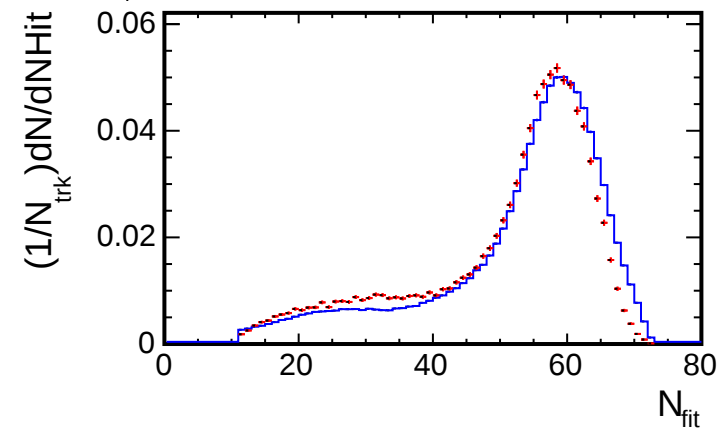
1.6, $0.1 < p_T < 0.5$ (GeV/c)



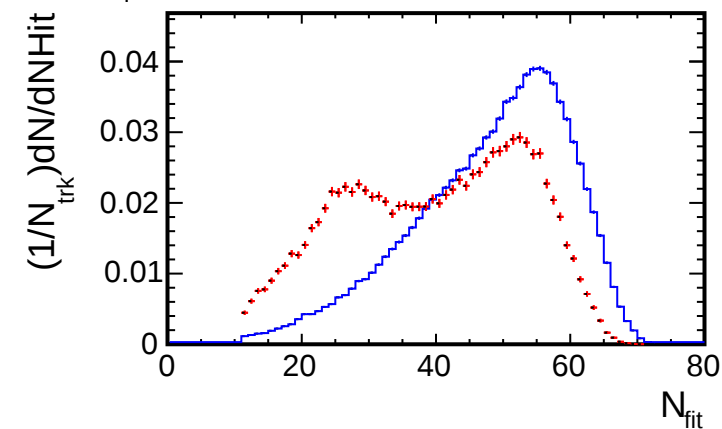
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



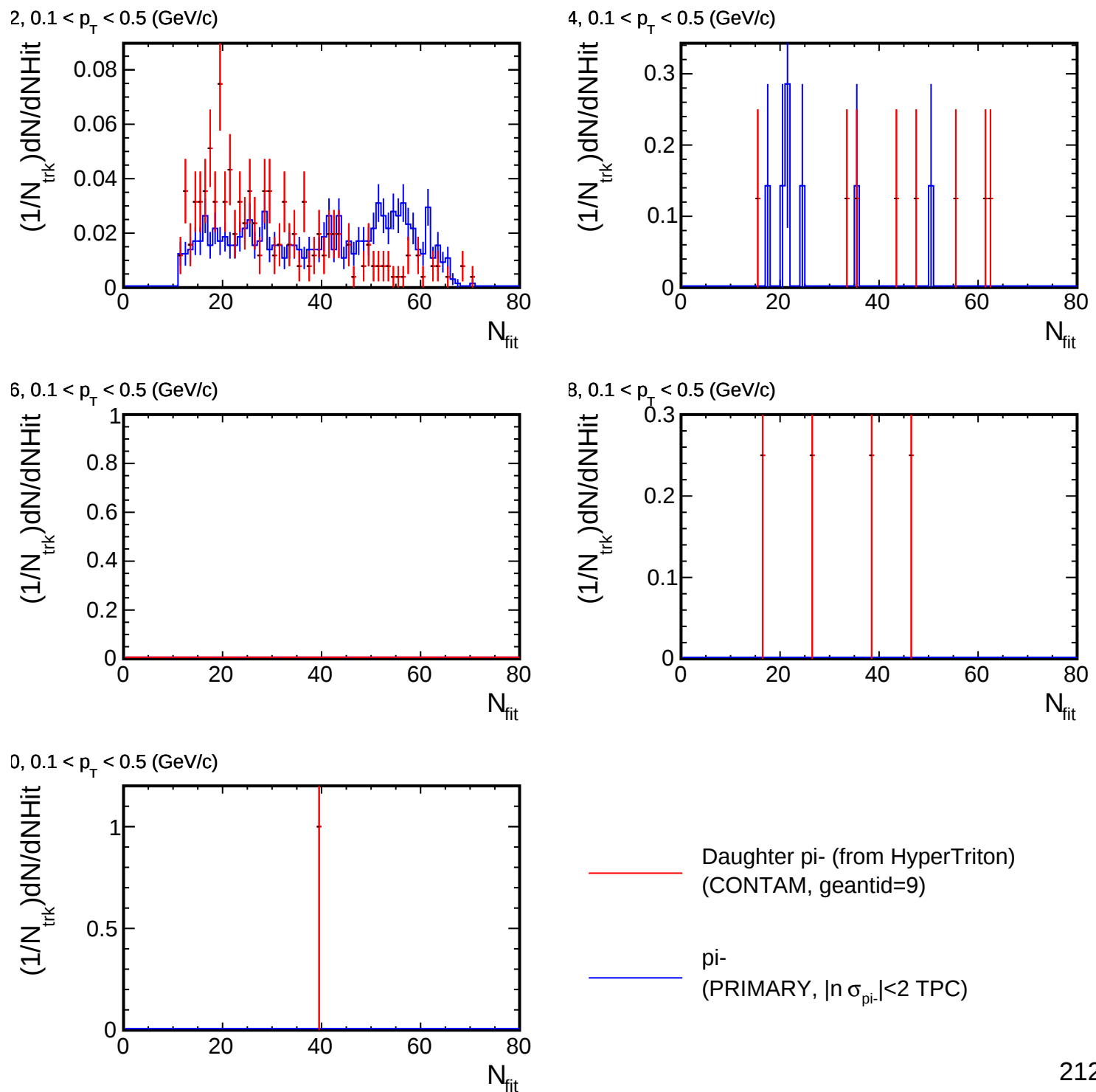
1.0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

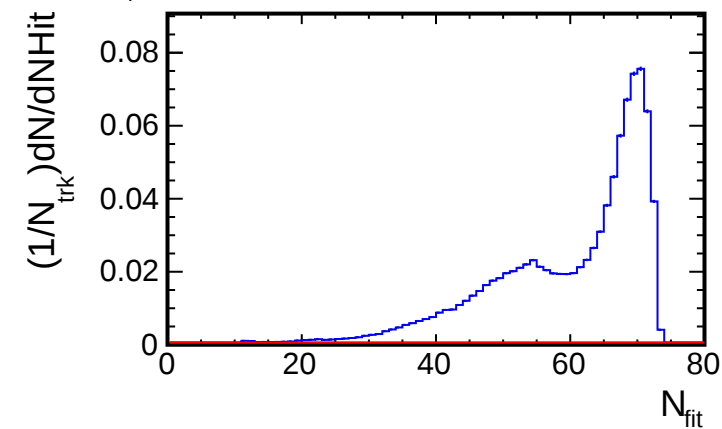
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

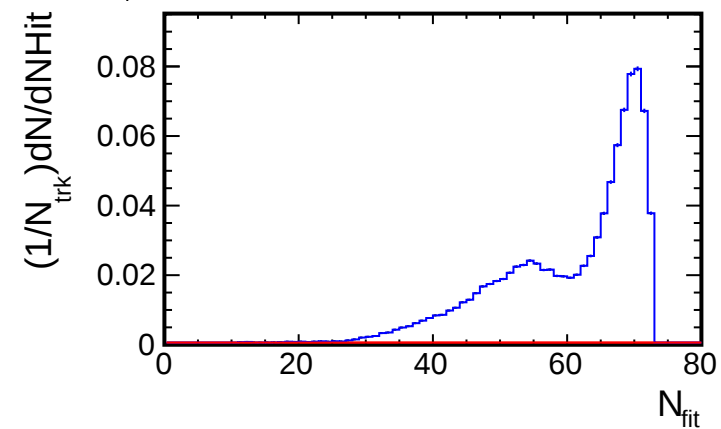


NHit distribution for (p_T , η) slices

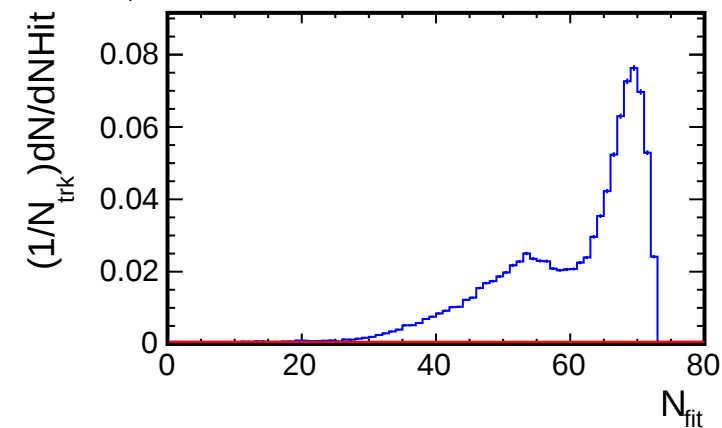
1.8, $0.5 < p_T < 1.0$ (GeV/c)



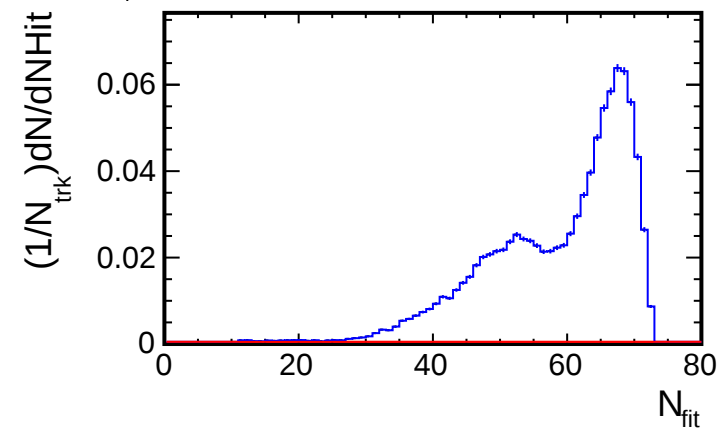
1.6, $0.5 < p_T < 1.0$ (GeV/c)



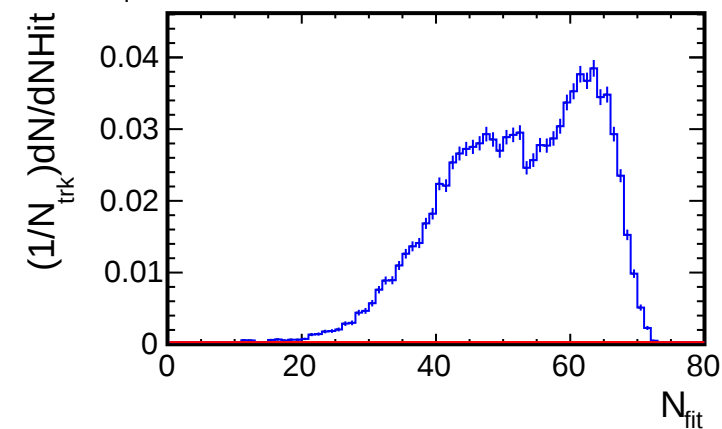
1.4, $0.5 < p_T < 1.0$ (GeV/c)



1.2, $0.5 < p_T < 1.0$ (GeV/c)



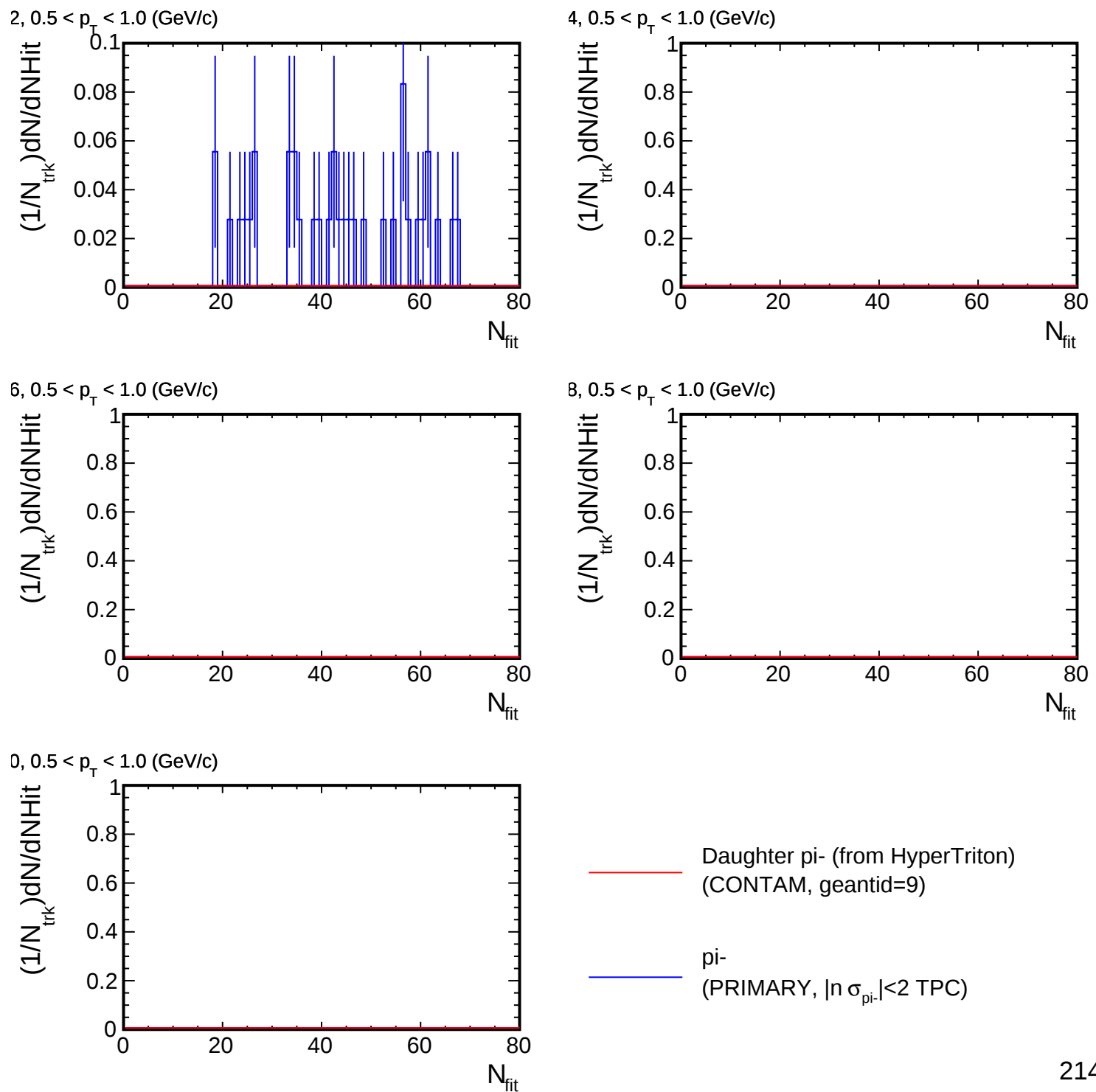
1.0, $0.5 < p_T < 1.0$ (GeV/c)



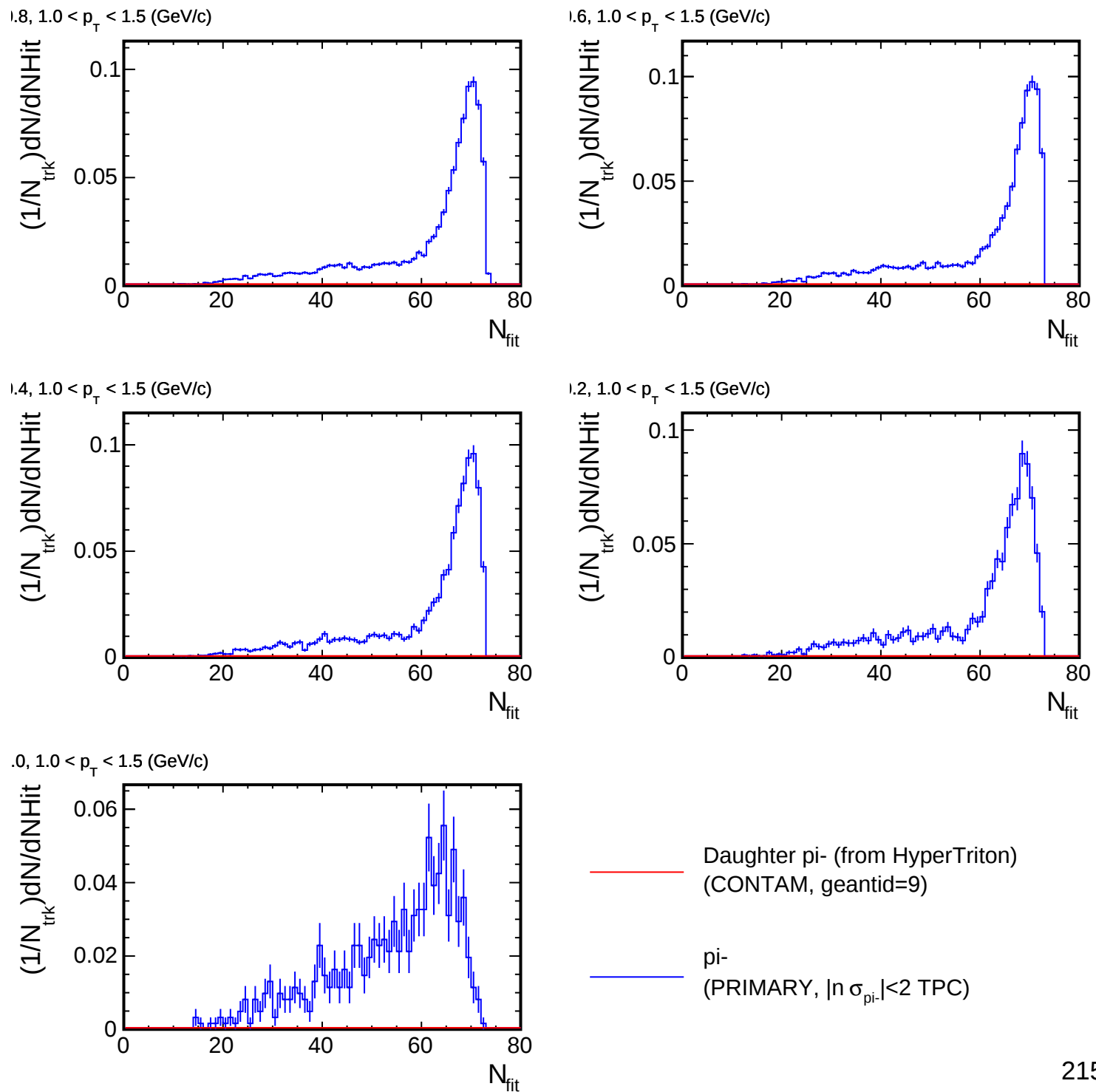
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

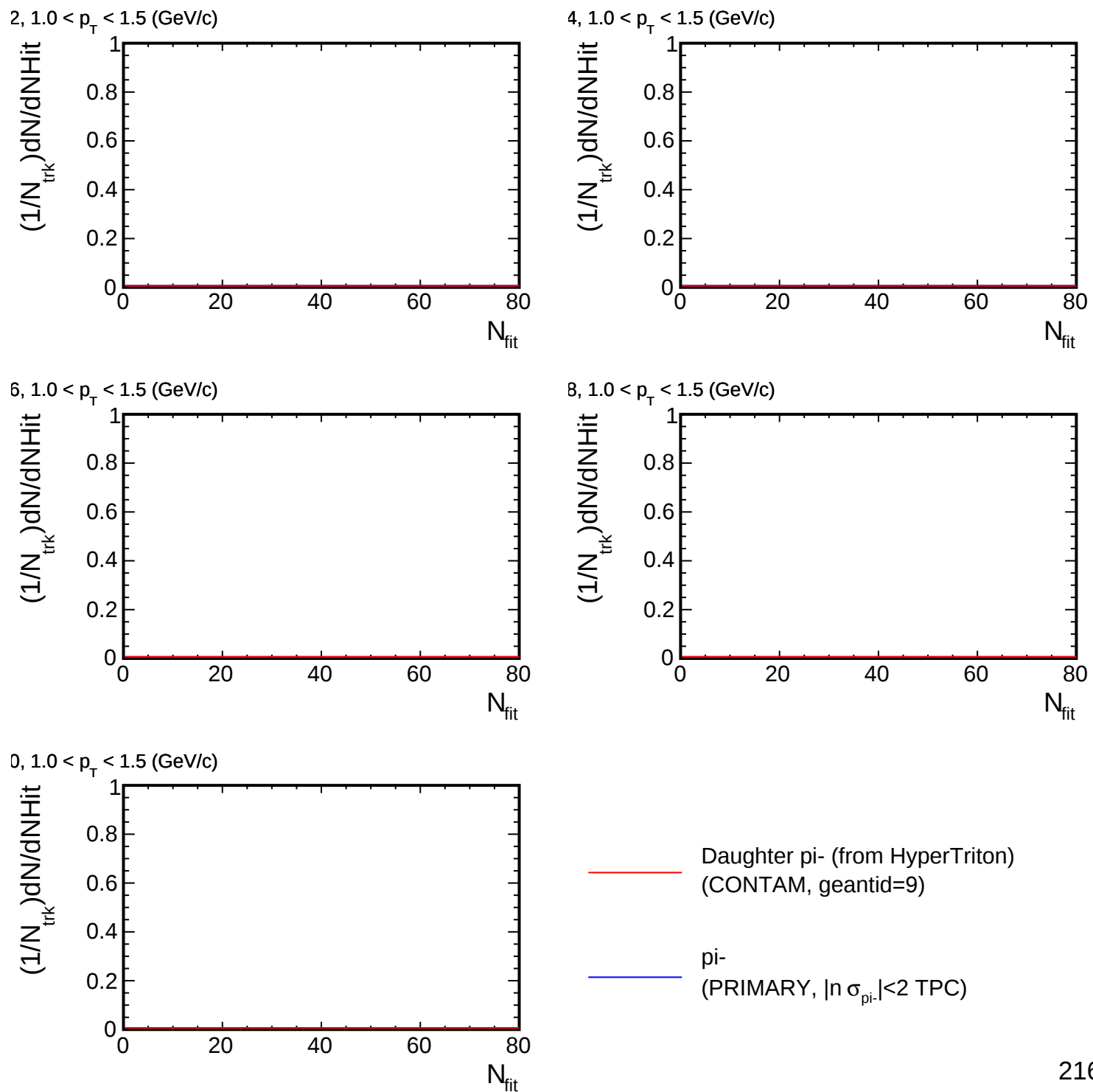
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

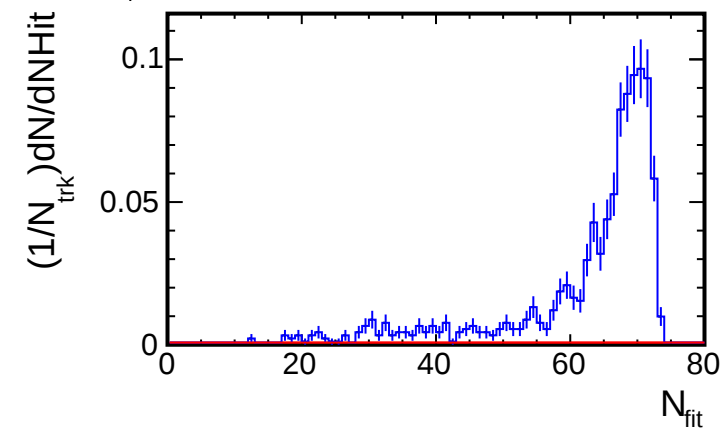


NHit distribution for (p_T , η) slices

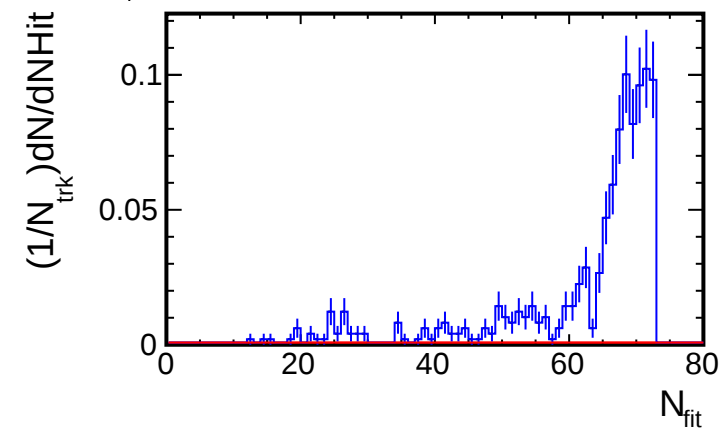


NHit distribution for (p_T , η) slices

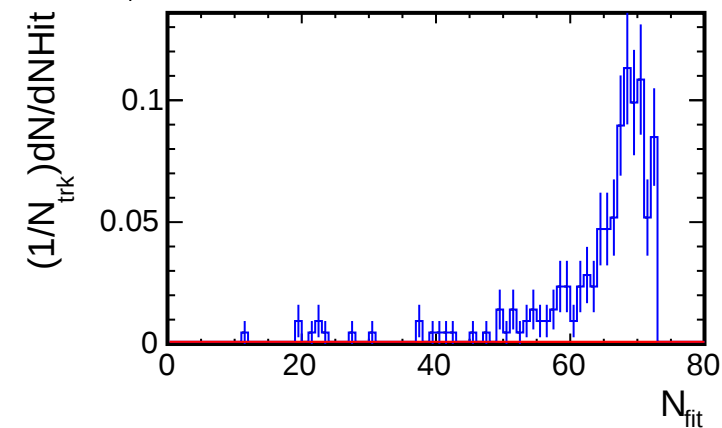
1.8, $1.5 < p_T < 2.0$ (GeV/c)



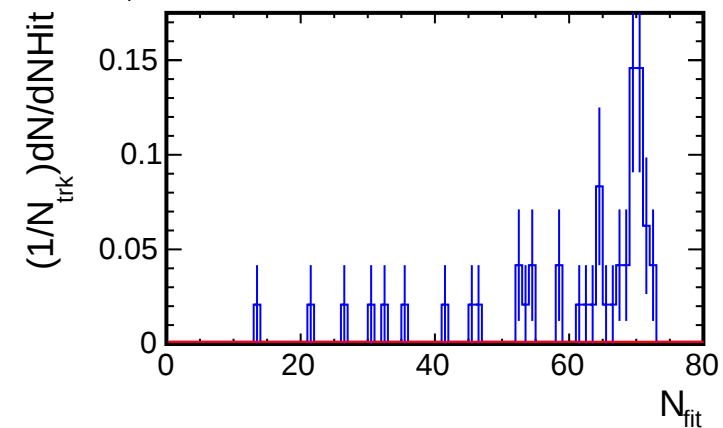
1.6, $1.5 < p_T < 2.0$ (GeV/c)



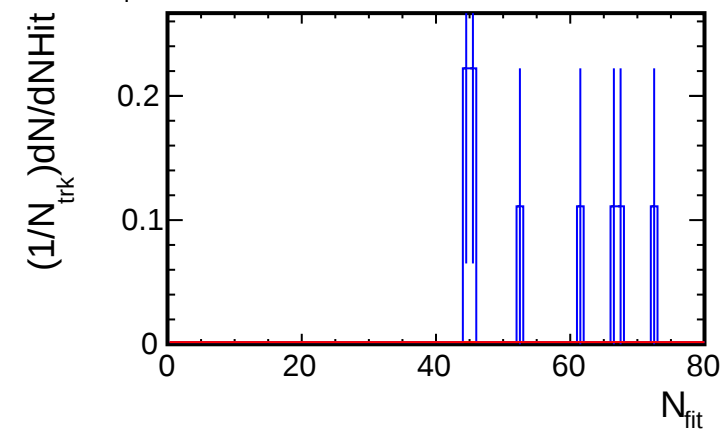
1.4, $1.5 < p_T < 2.0$ (GeV/c)



1.2, $1.5 < p_T < 2.0$ (GeV/c)



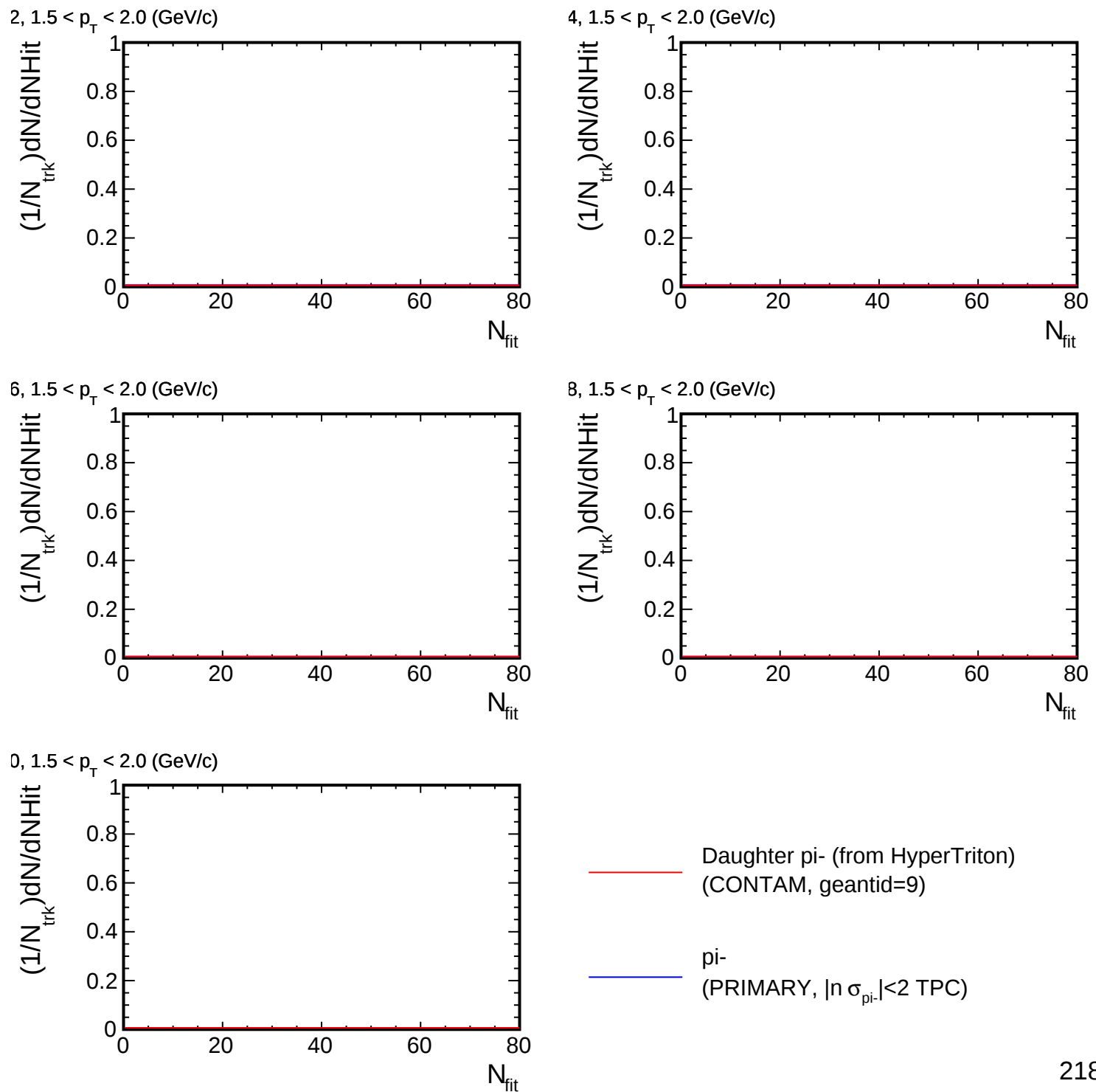
1.0, $1.5 < p_T < 2.0$ (GeV/c)



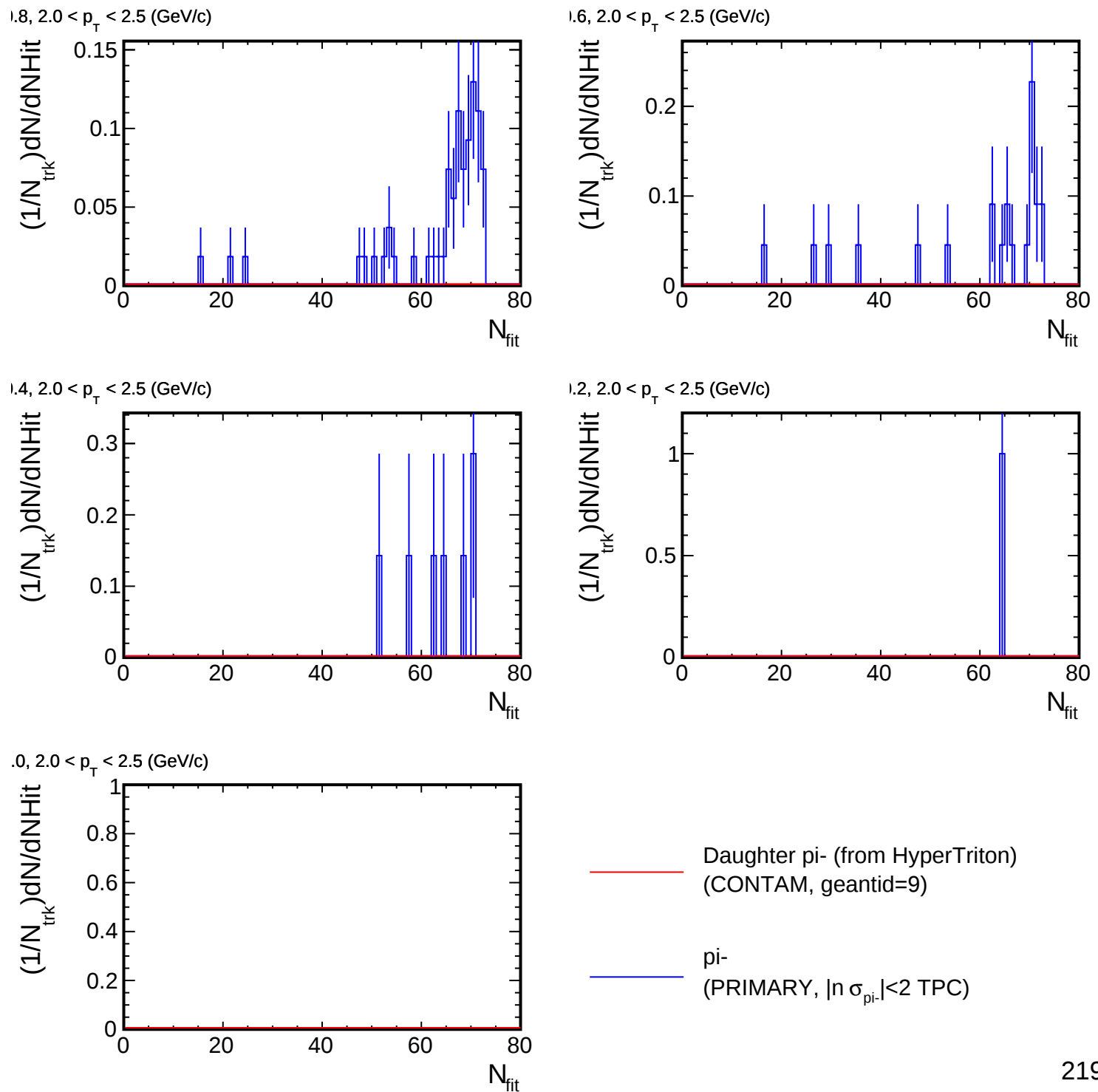
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

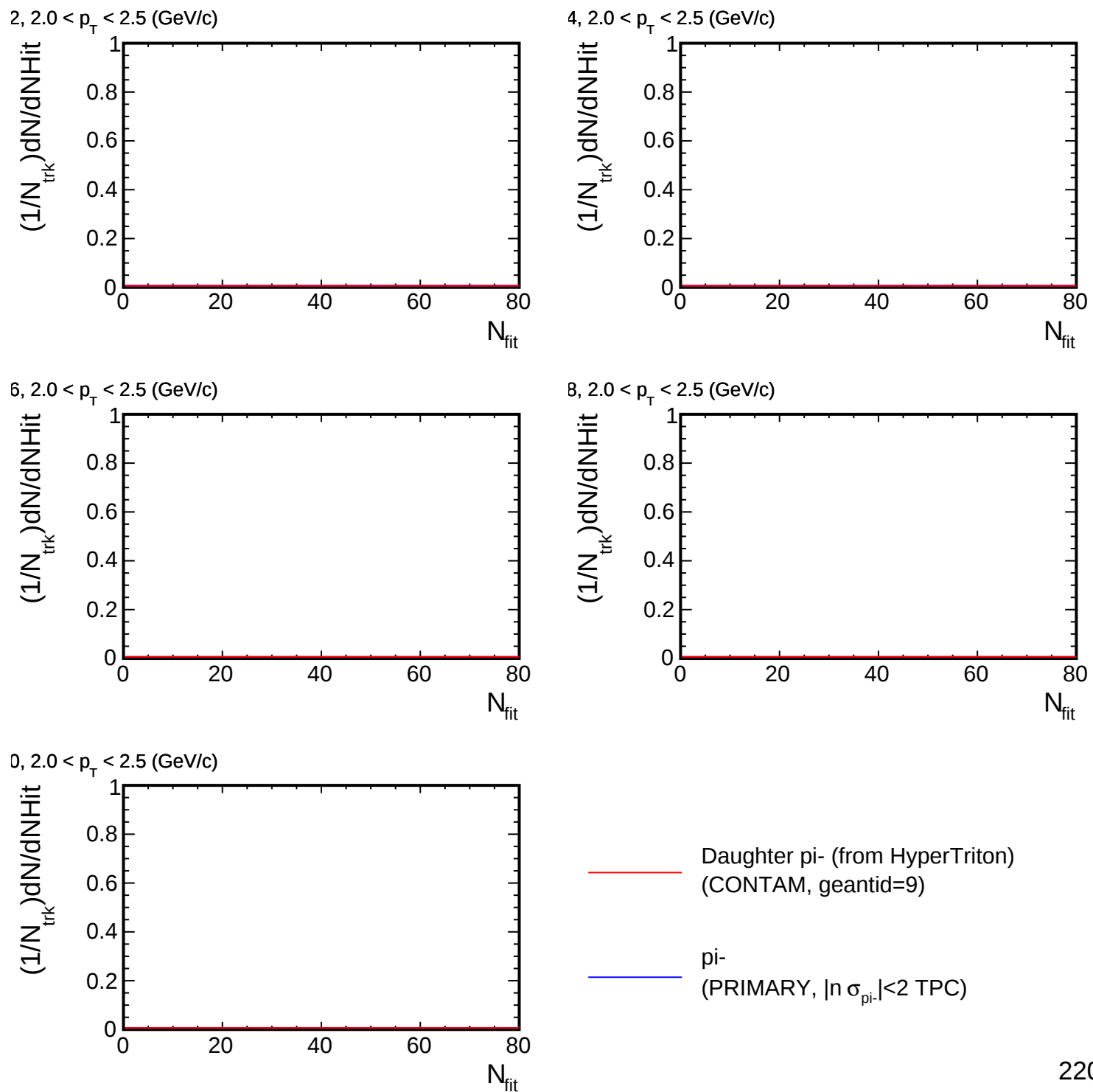
NHit distribution for (p_T , η) slices



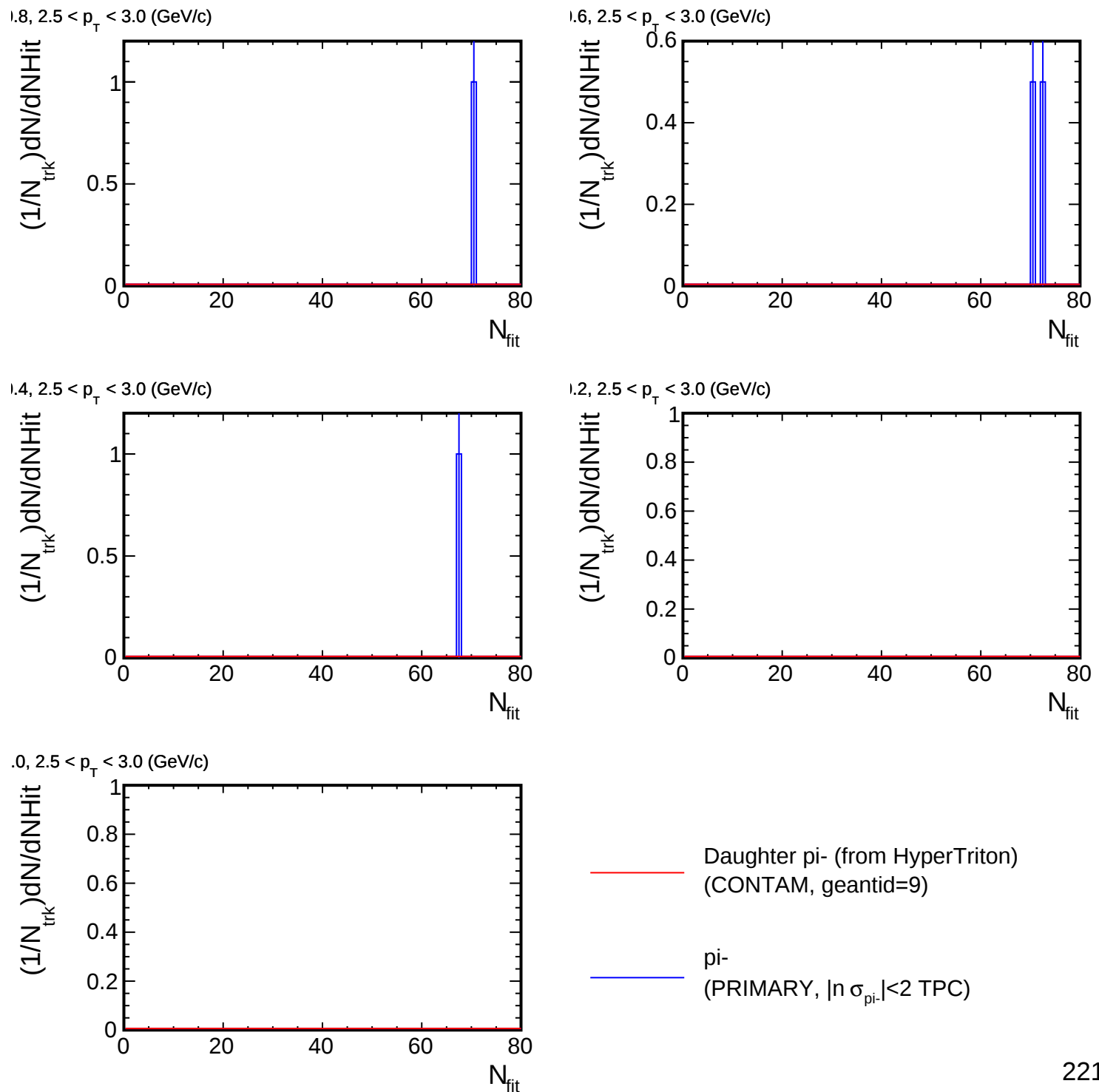
NHit distribution for (p_T , η) slices



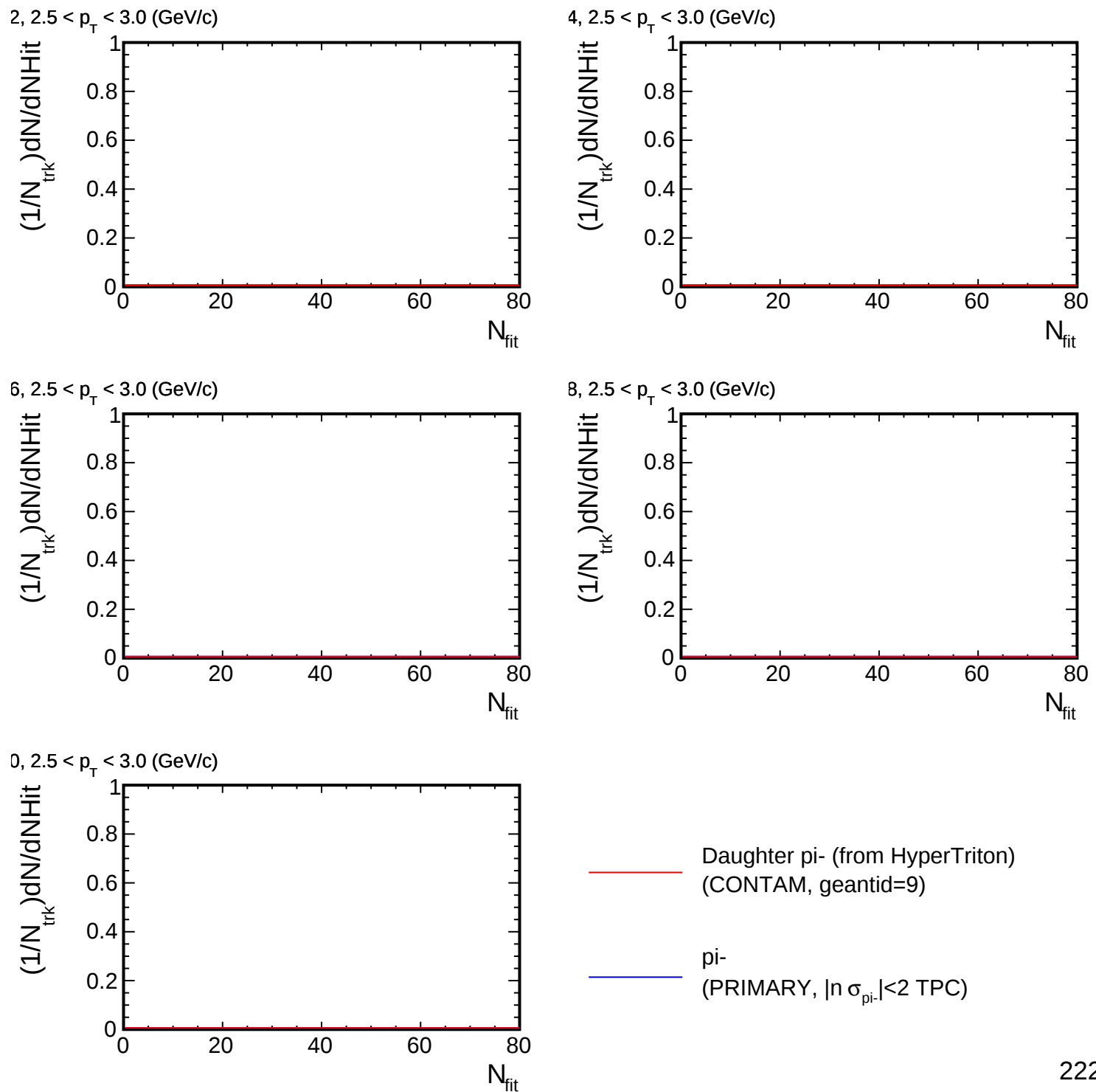
NHit distribution for (p_T , η) slices



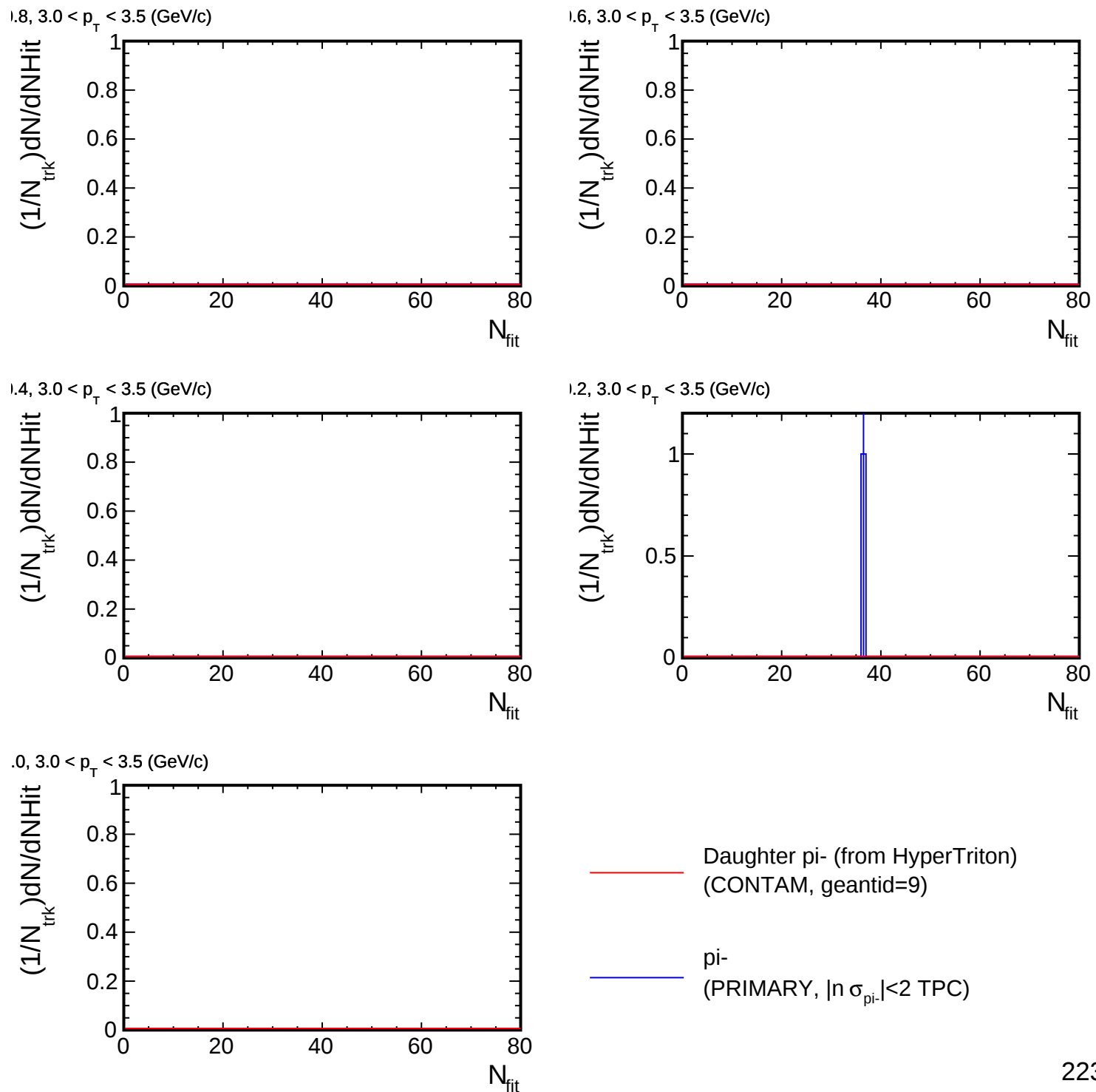
NHit distribution for (p_T , η) slices



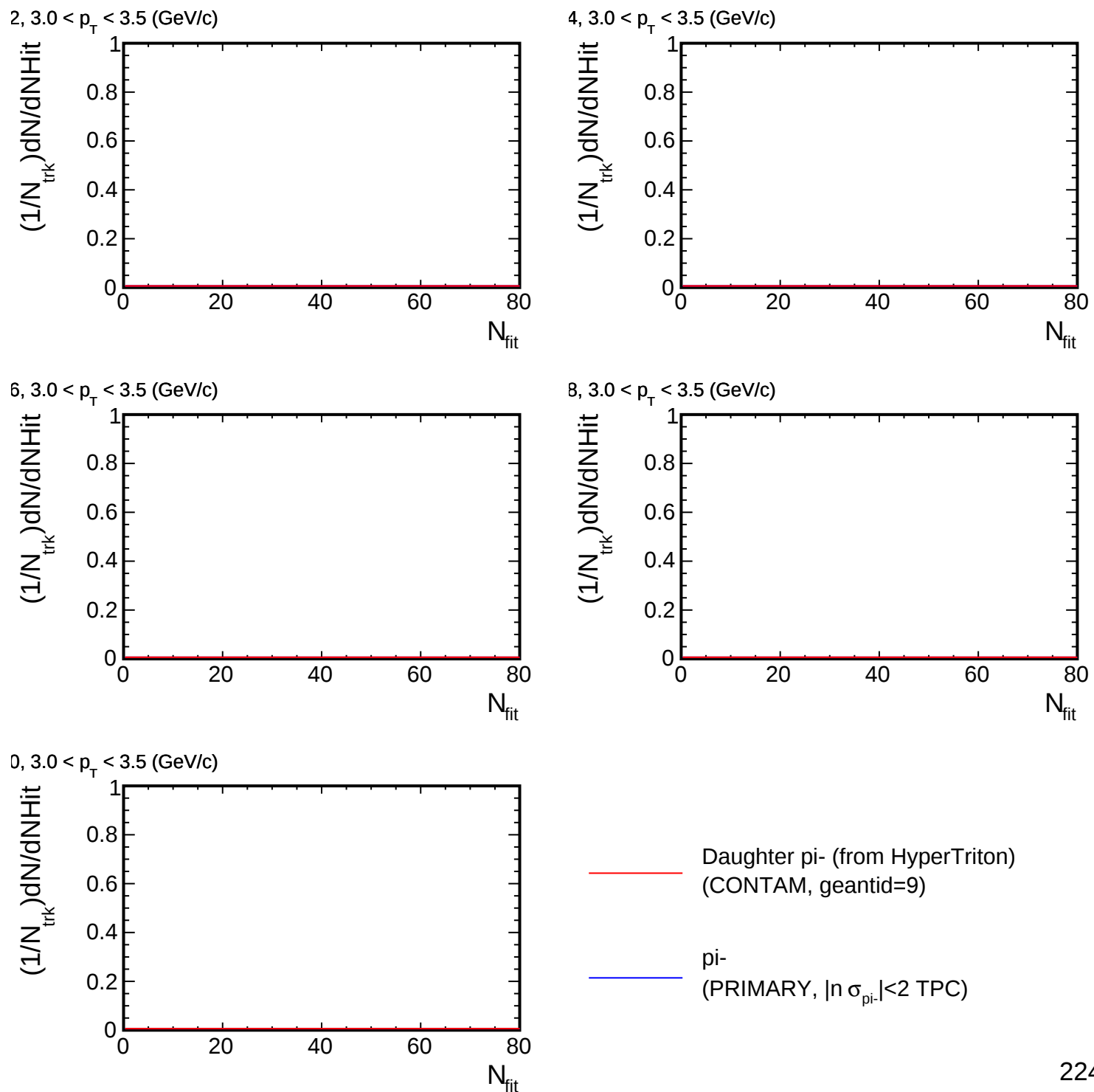
NHit distribution for (p_T , η) slices



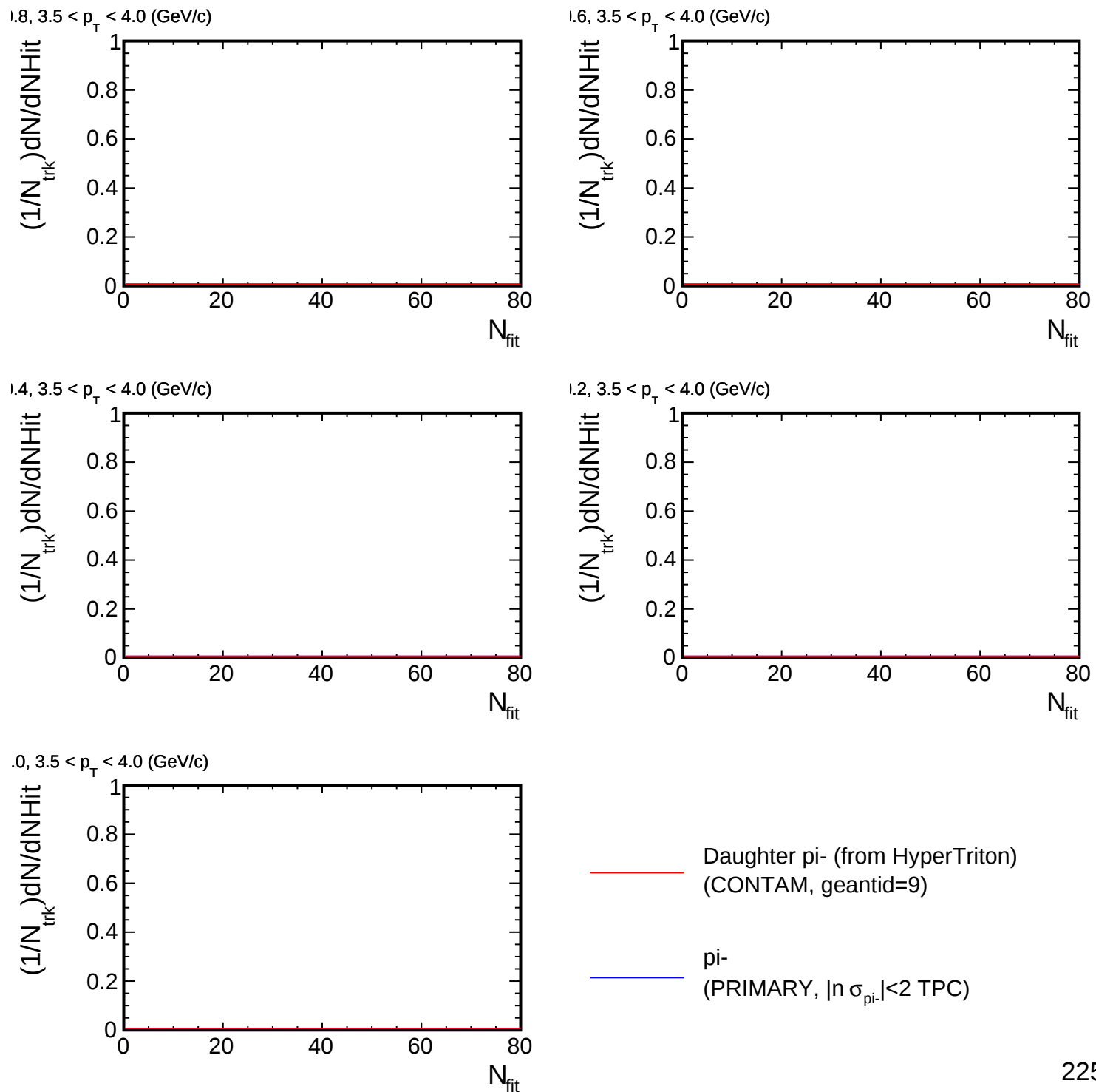
NHit distribution for (p_T , η) slices



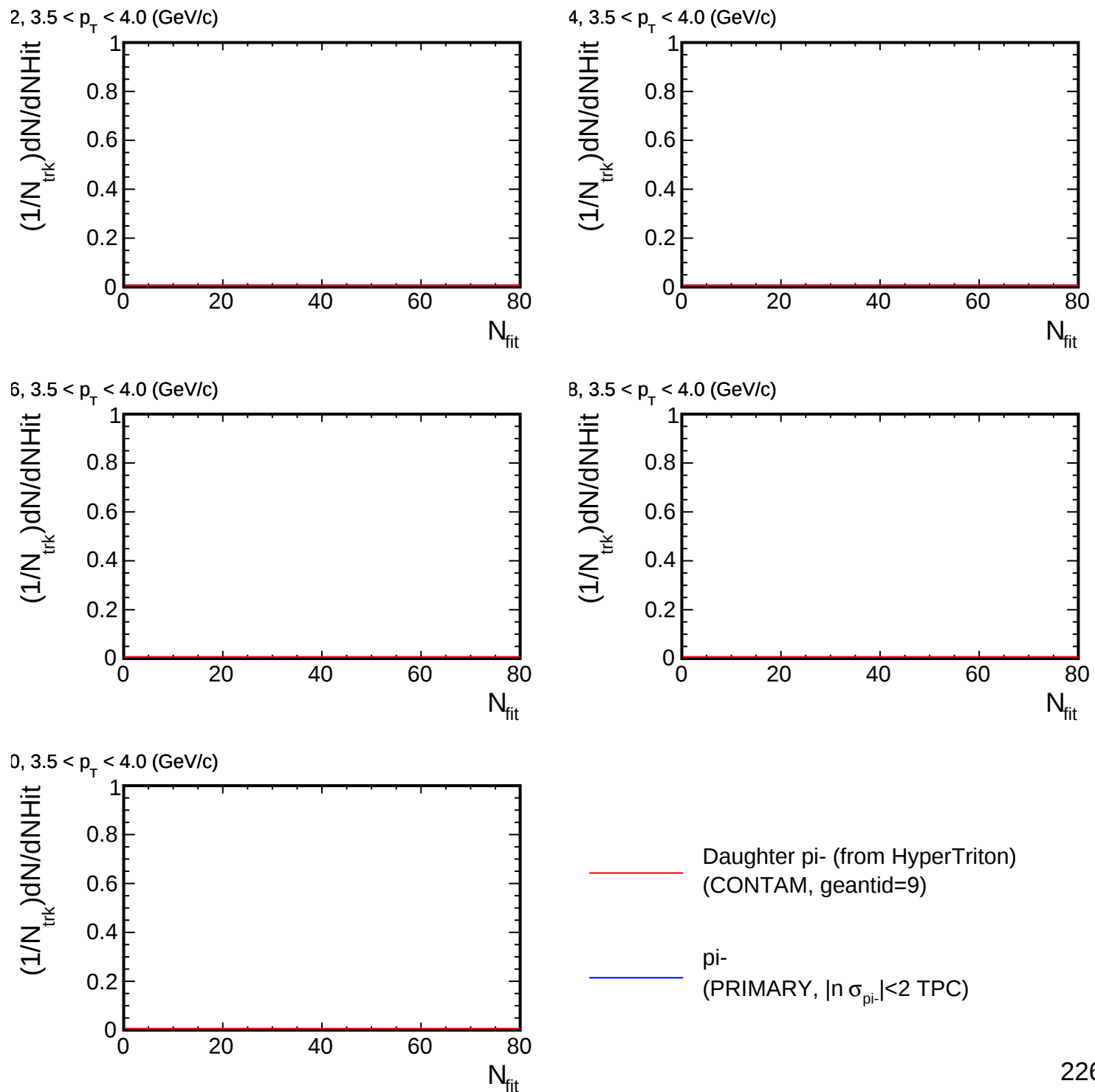
NHit distribution for (p_T , η) slices



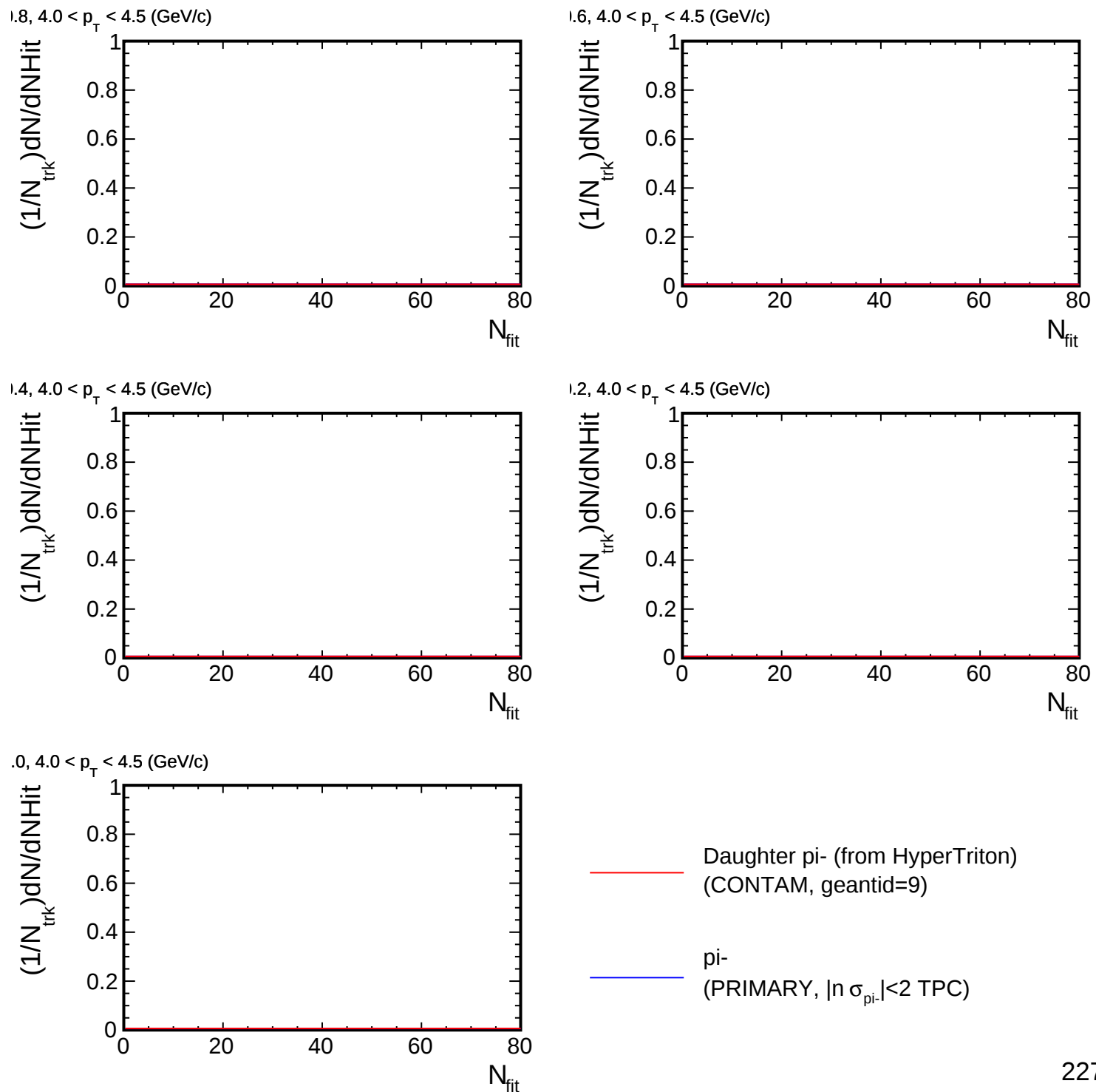
NHit distribution for (p_T , η) slices



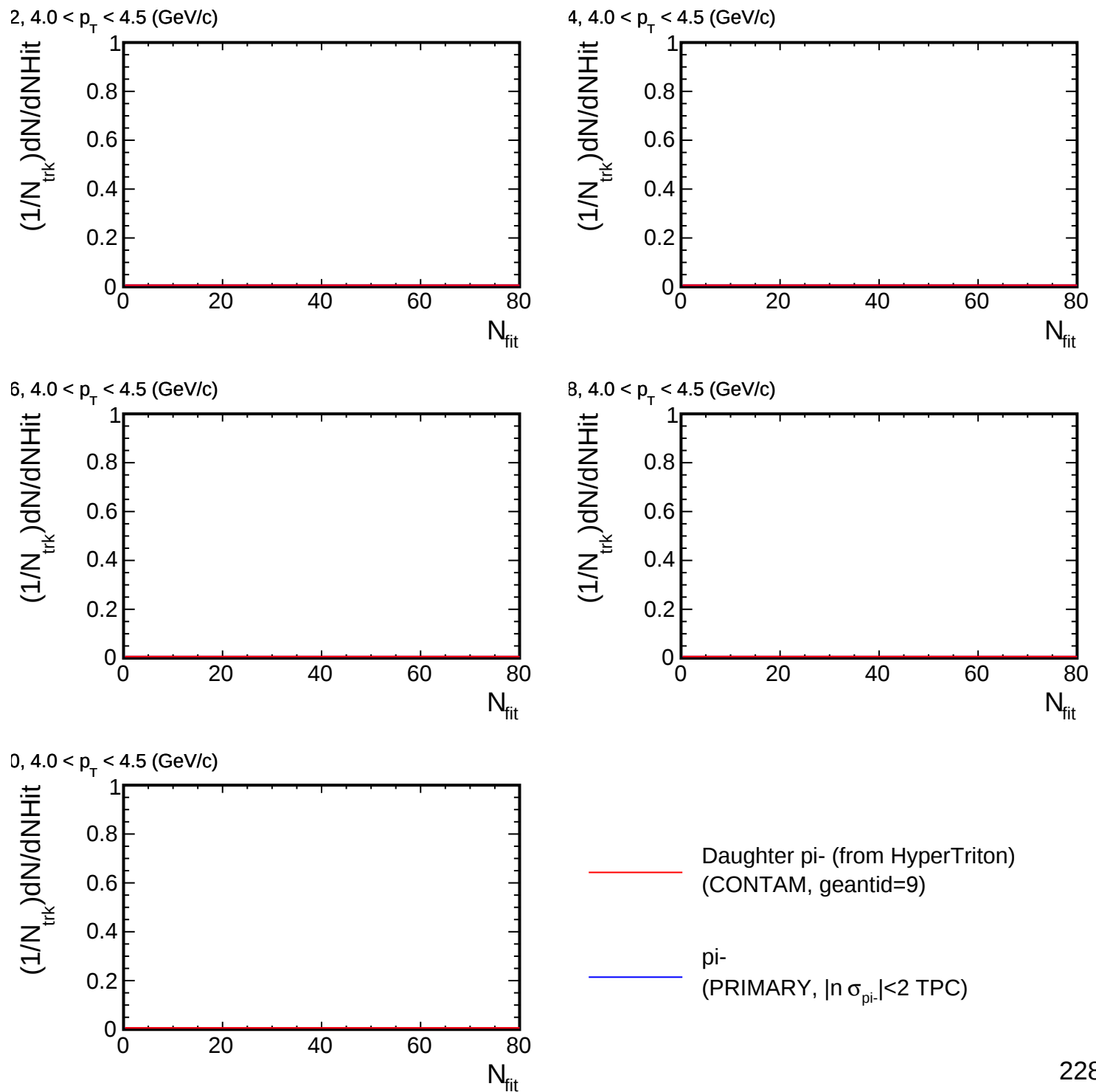
NHit distribution for (p_T , η) slices



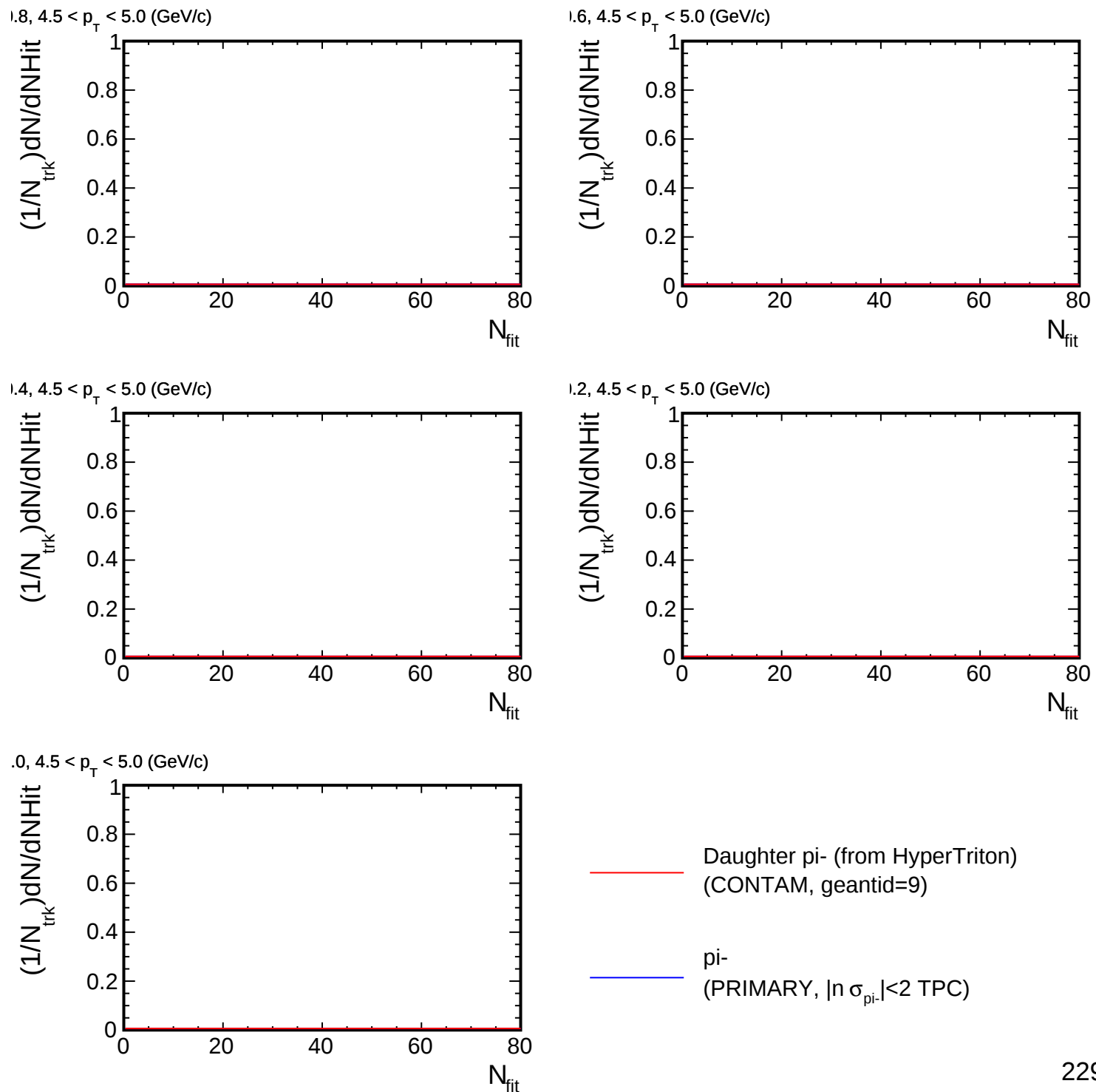
NHit distribution for (p_T , η) slices



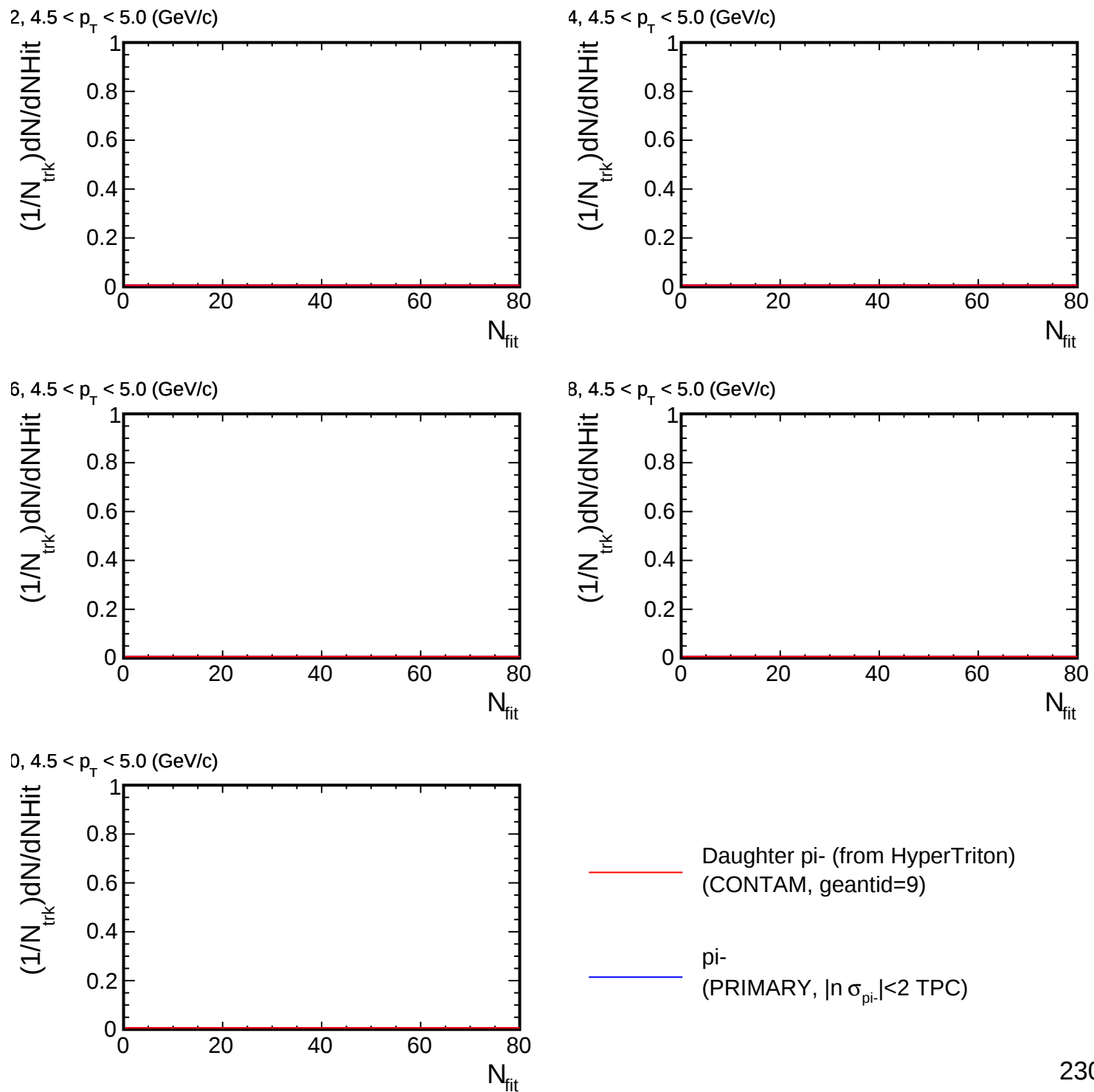
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

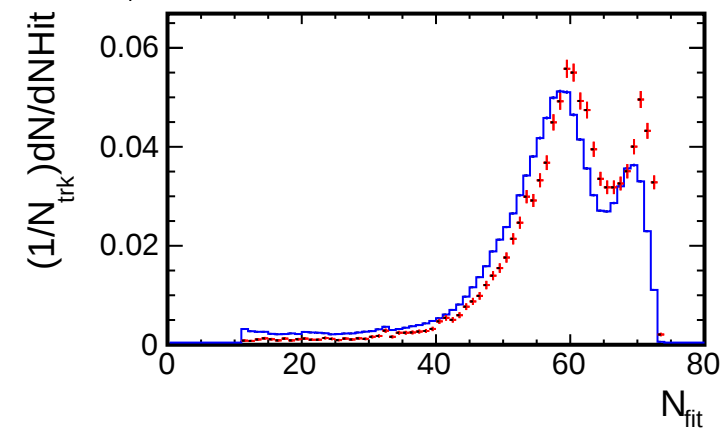


NHit distribution for (p_T , η) slices

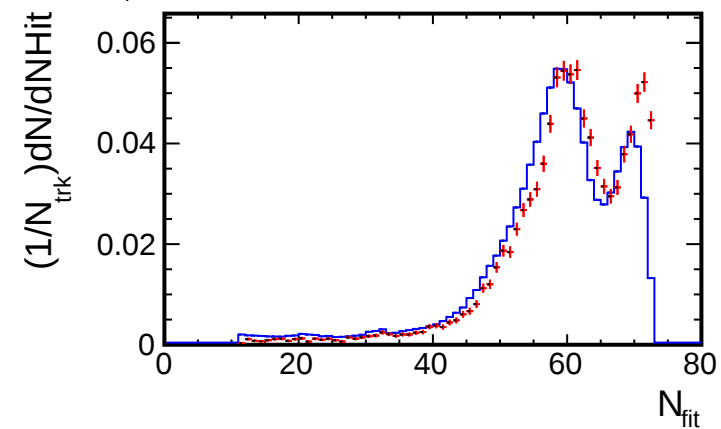


NHit distribution for (p_T , η) slices

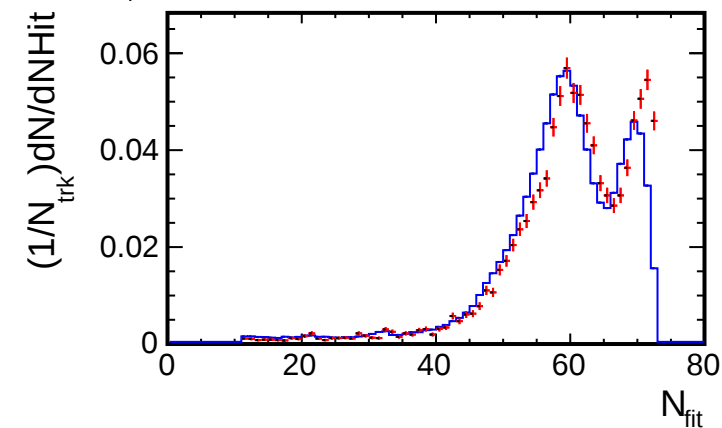
1.8, $0.1 < p_T < 0.5$ (GeV/c)



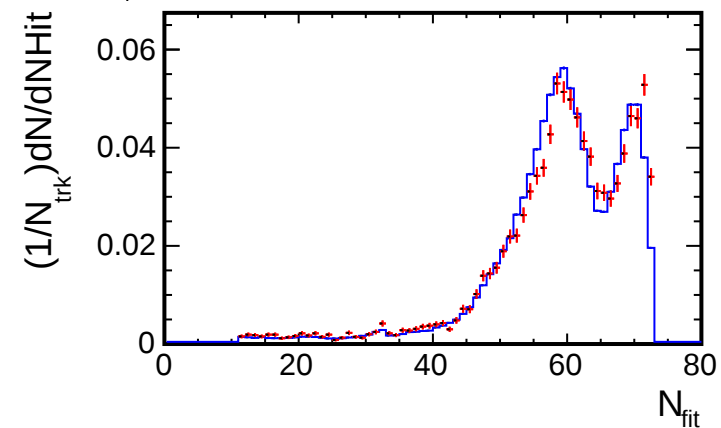
1.6, $0.1 < p_T < 0.5$ (GeV/c)



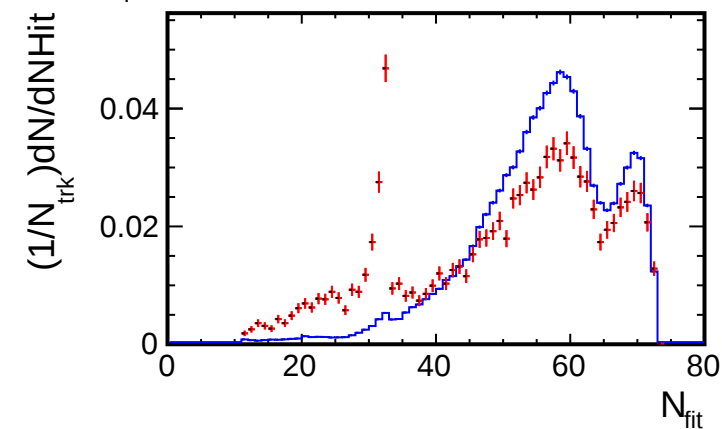
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



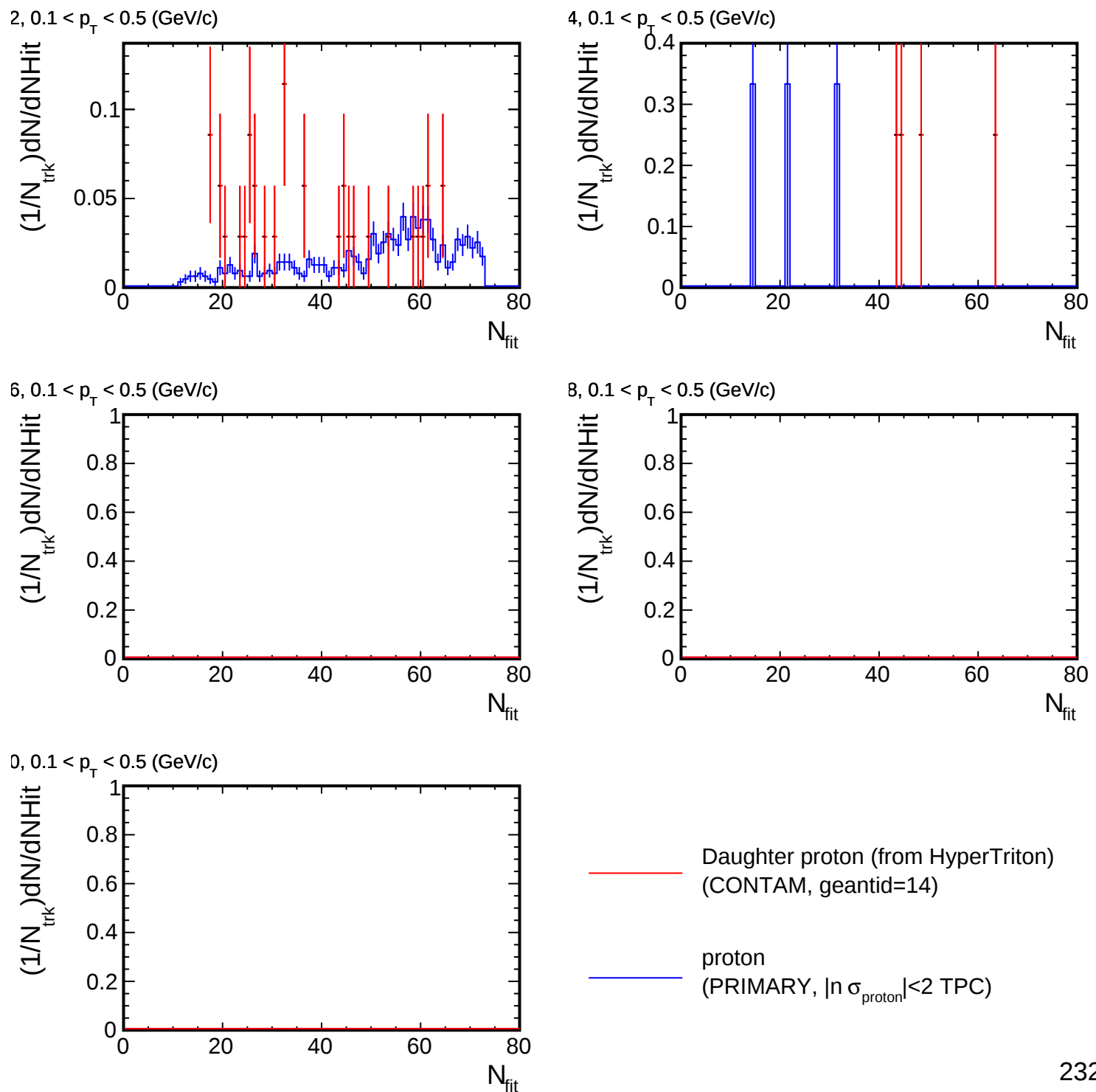
1.0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

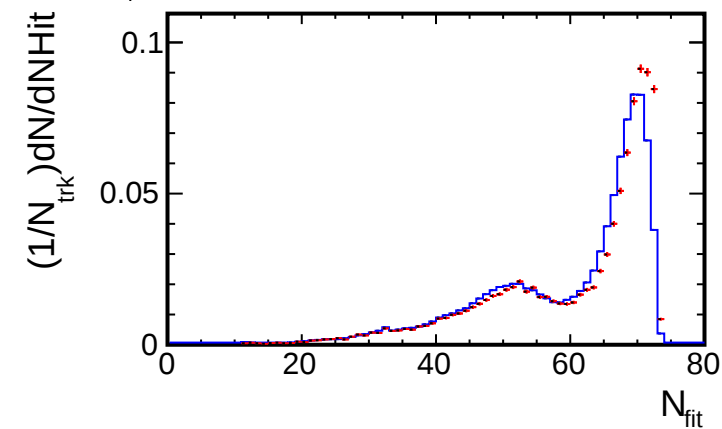
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

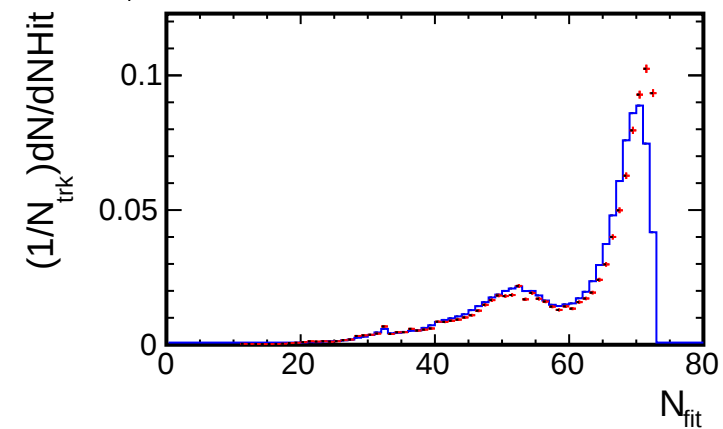


NHit distribution for (p_T , η) slices

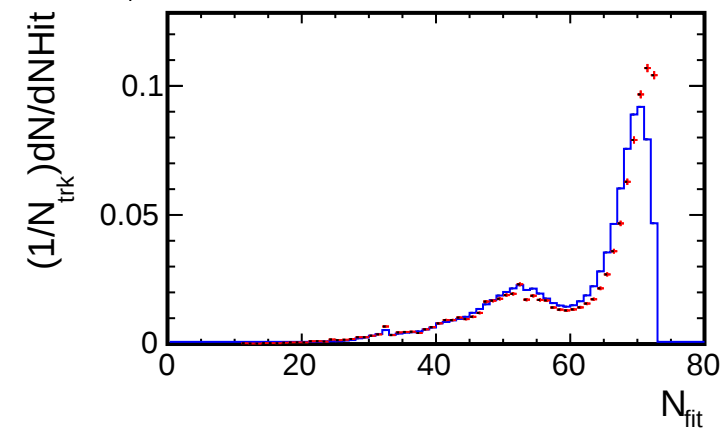
1.8, $0.5 < p_T < 1.0$ (GeV/c)



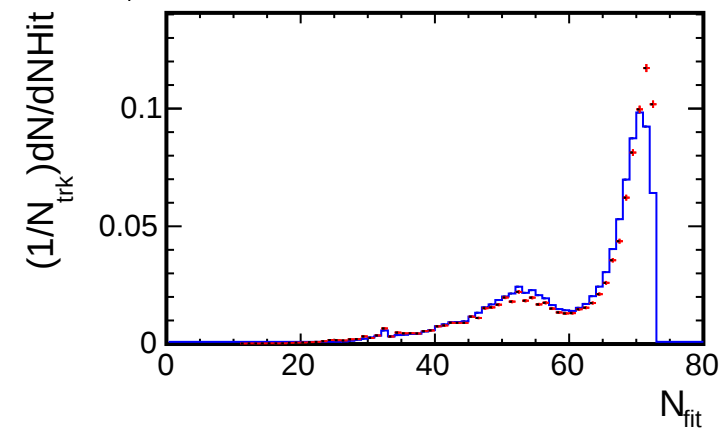
1.6, $0.5 < p_T < 1.0$ (GeV/c)



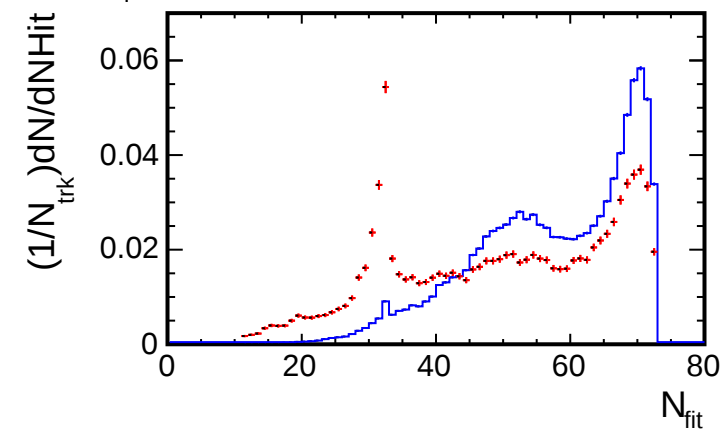
1.4, $0.5 < p_T < 1.0$ (GeV/c)



1.2, $0.5 < p_T < 1.0$ (GeV/c)



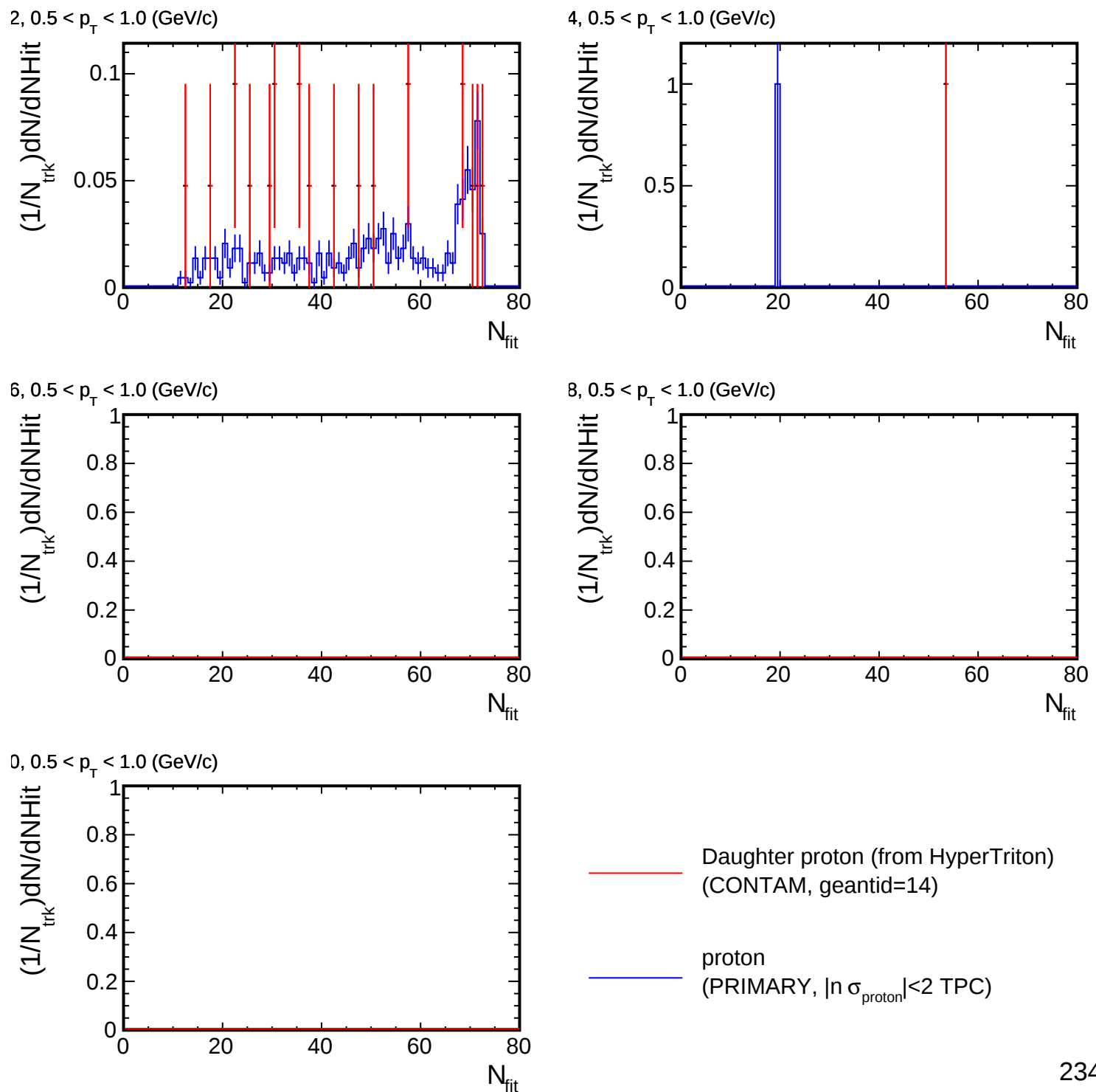
1.0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

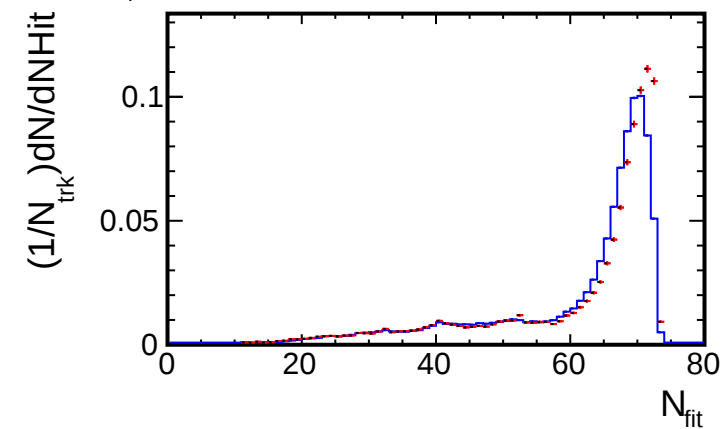
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

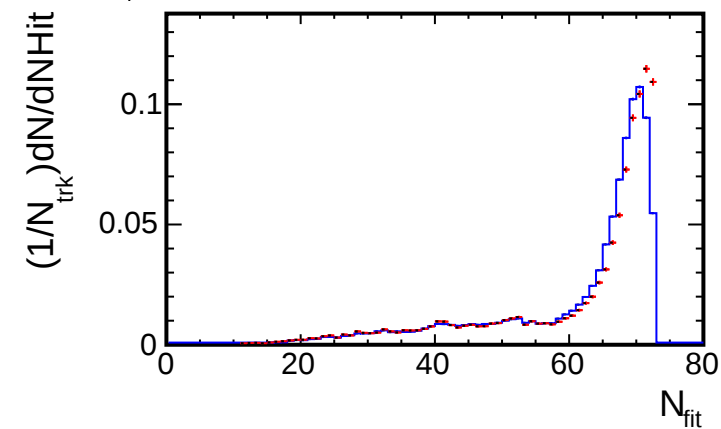


NHit distribution for (p_T , η) slices

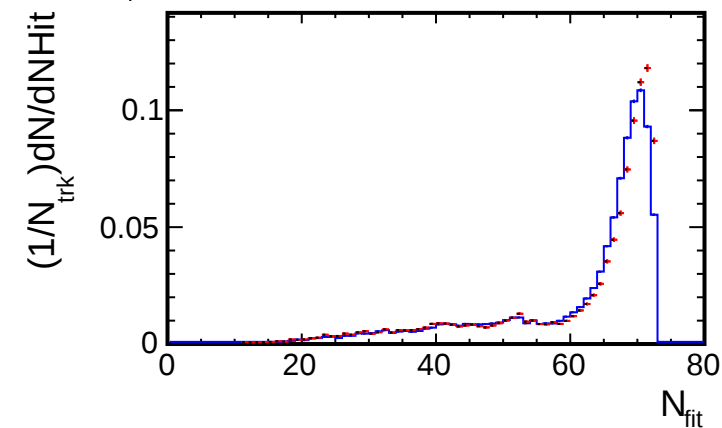
1.8, $1.0 < p_T < 1.5$ (GeV/c)



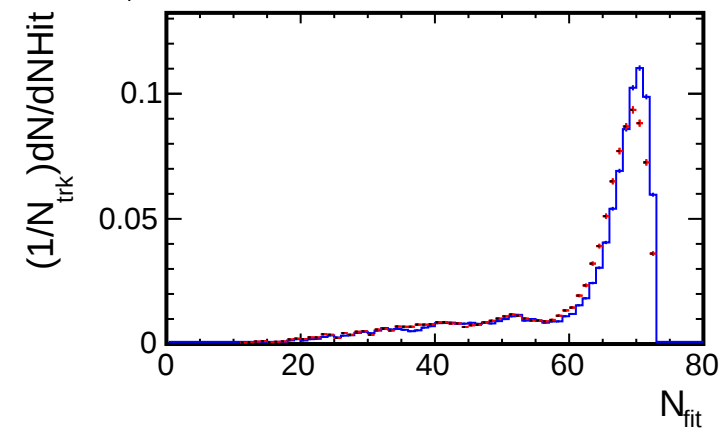
1.6, $1.0 < p_T < 1.5$ (GeV/c)



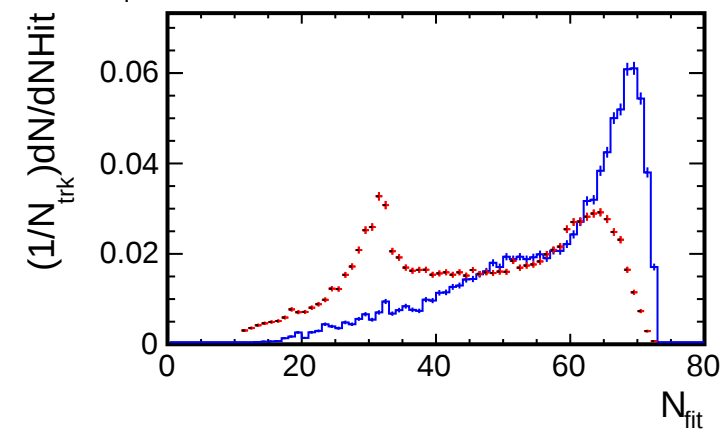
1.4, $1.0 < p_T < 1.5$ (GeV/c)



1.2, $1.0 < p_T < 1.5$ (GeV/c)



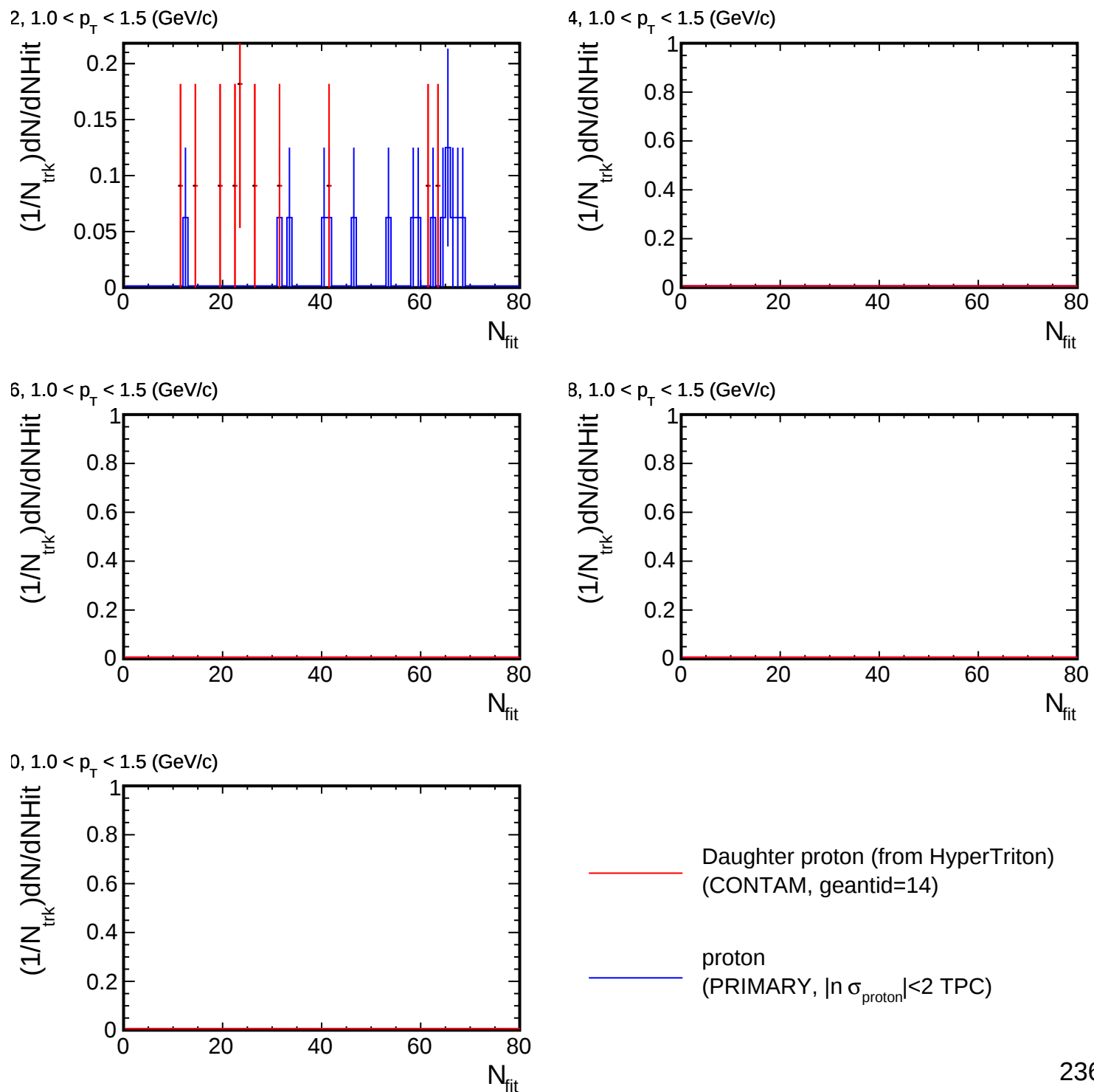
1.0, $1.0 < p_T < 1.5$ (GeV/c)



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

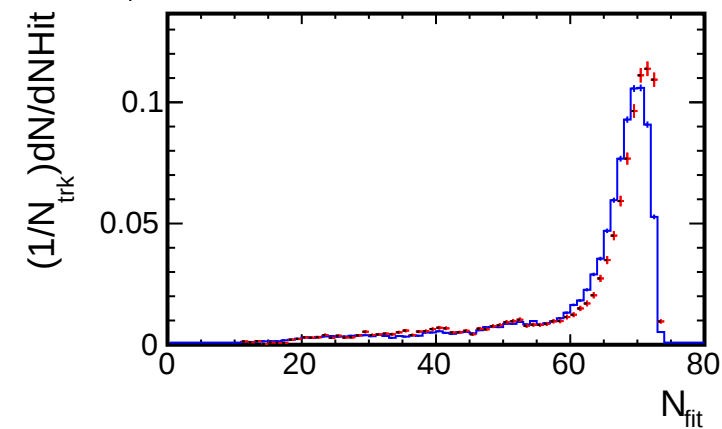
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

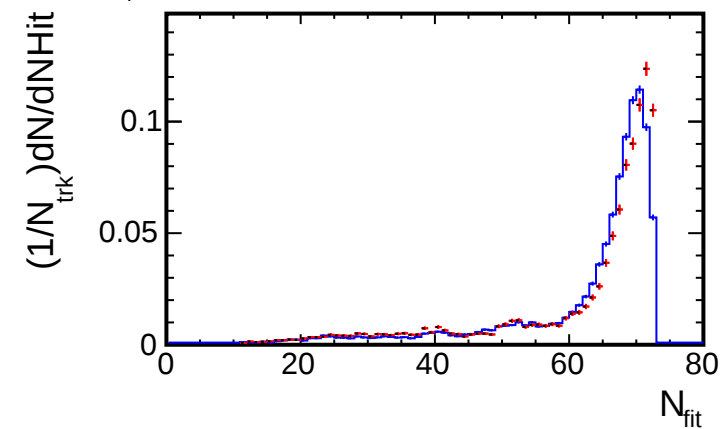


NHit distribution for (p_T , η) slices

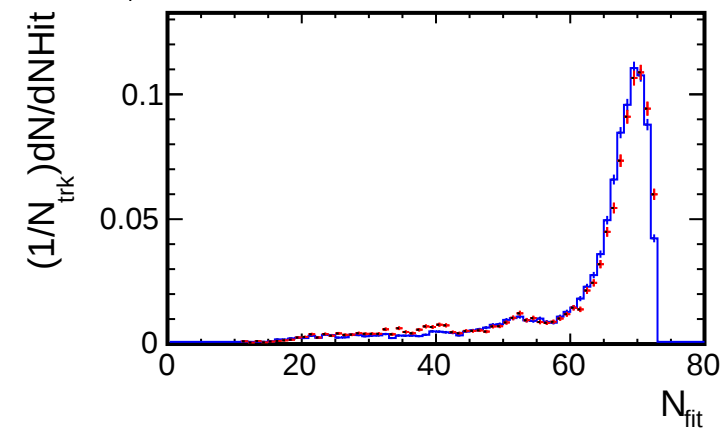
1.8, $1.5 < p_T < 2.0$ (GeV/c)



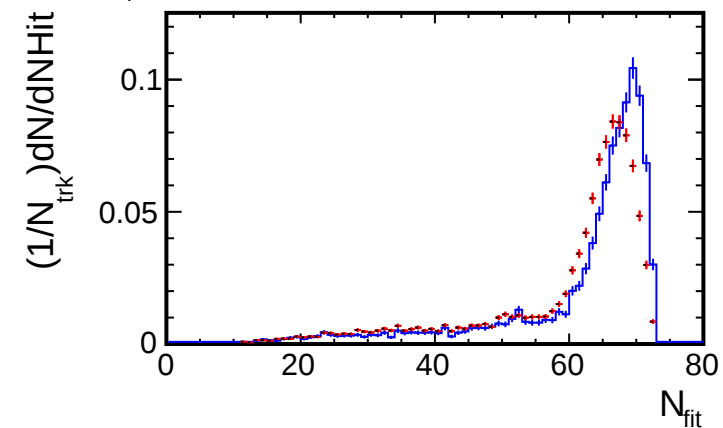
1.6, $1.5 < p_T < 2.0$ (GeV/c)



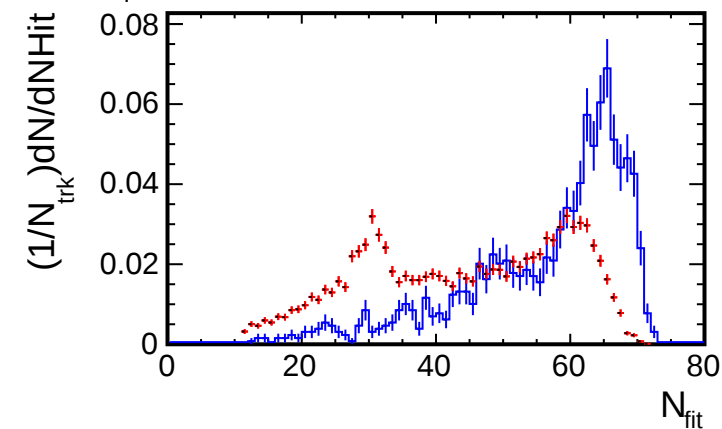
1.4, $1.5 < p_T < 2.0$ (GeV/c)



1.2, $1.5 < p_T < 2.0$ (GeV/c)



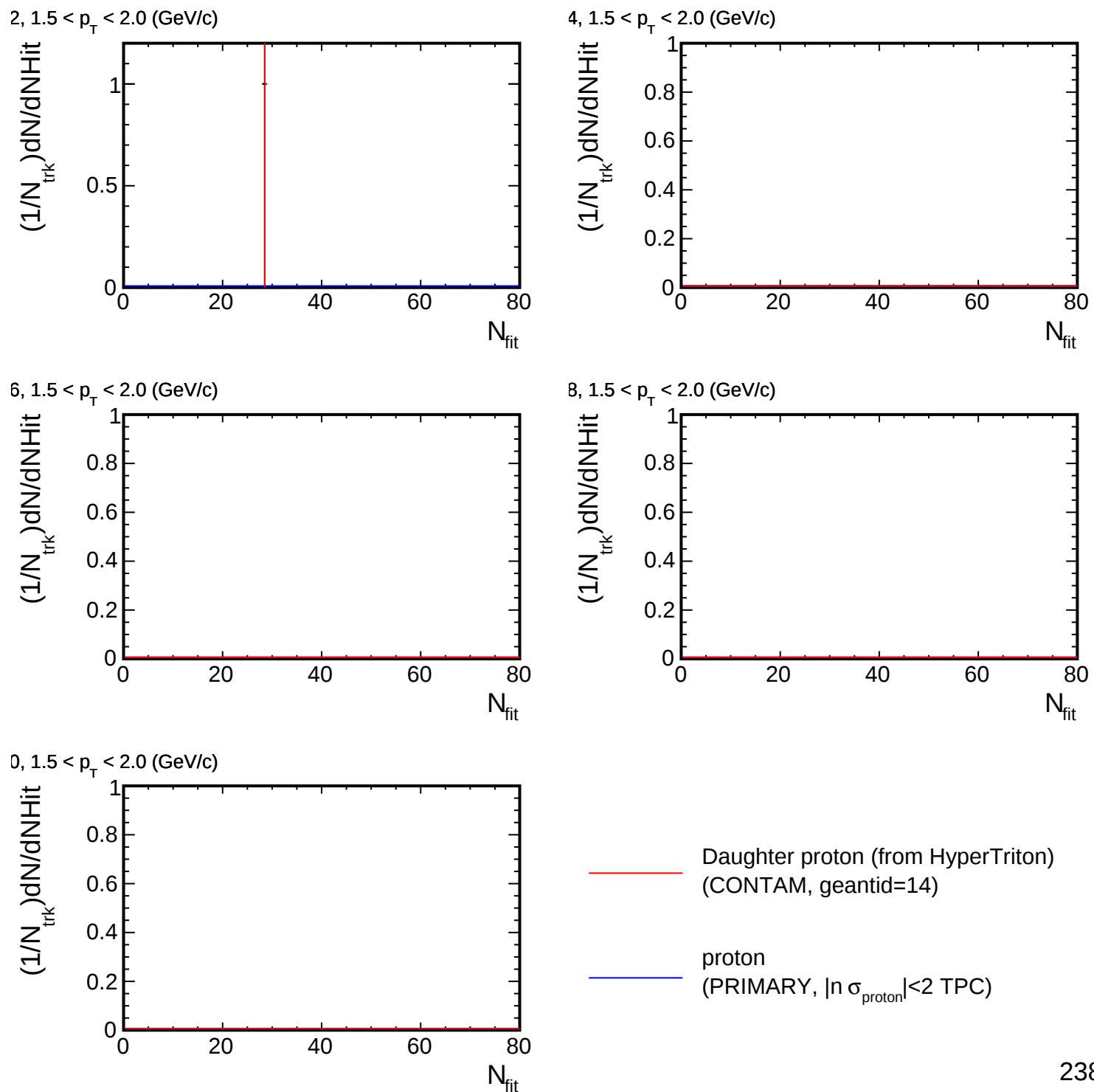
1.0, $1.5 < p_T < 2.0$ (GeV/c)



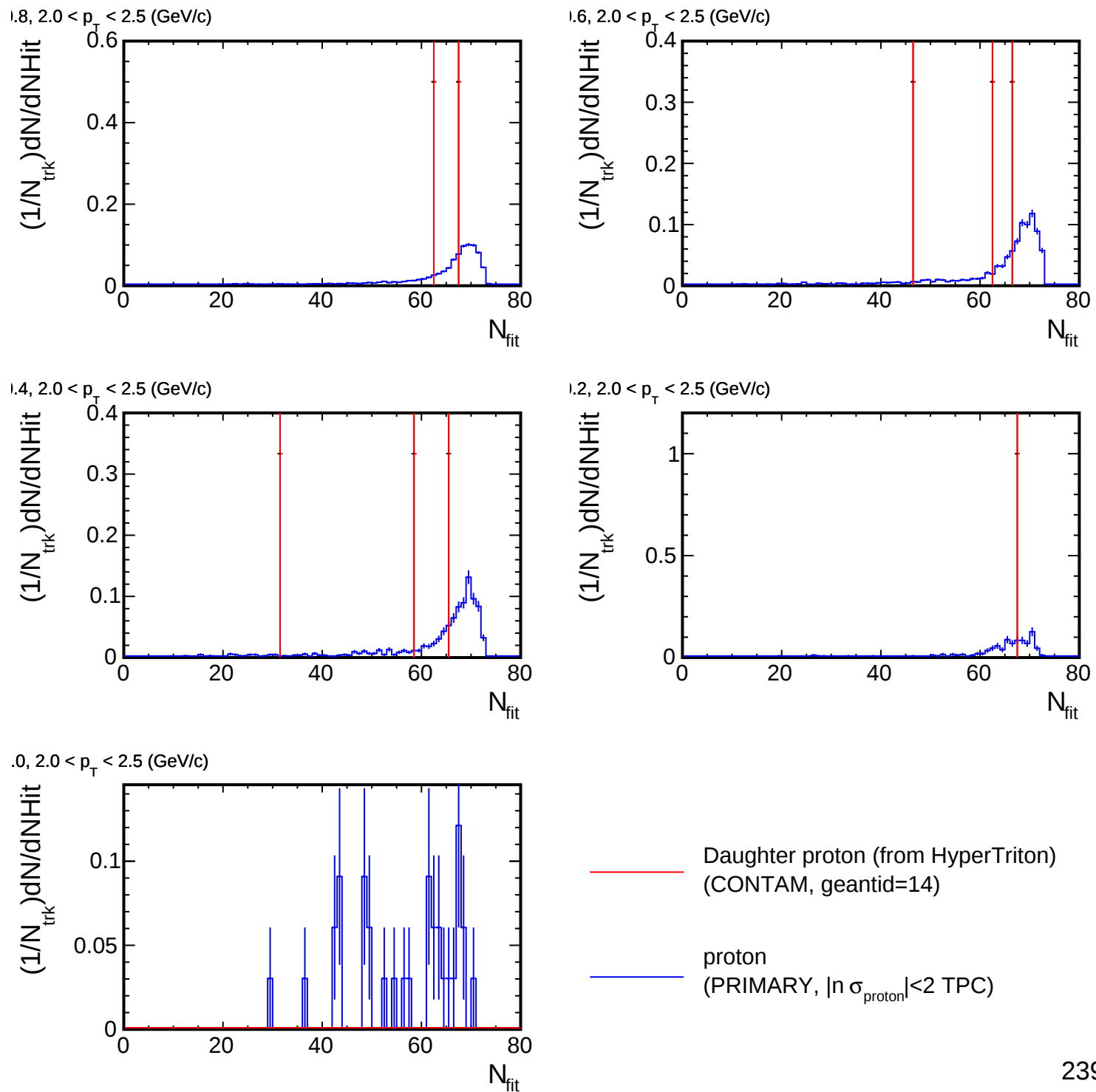
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

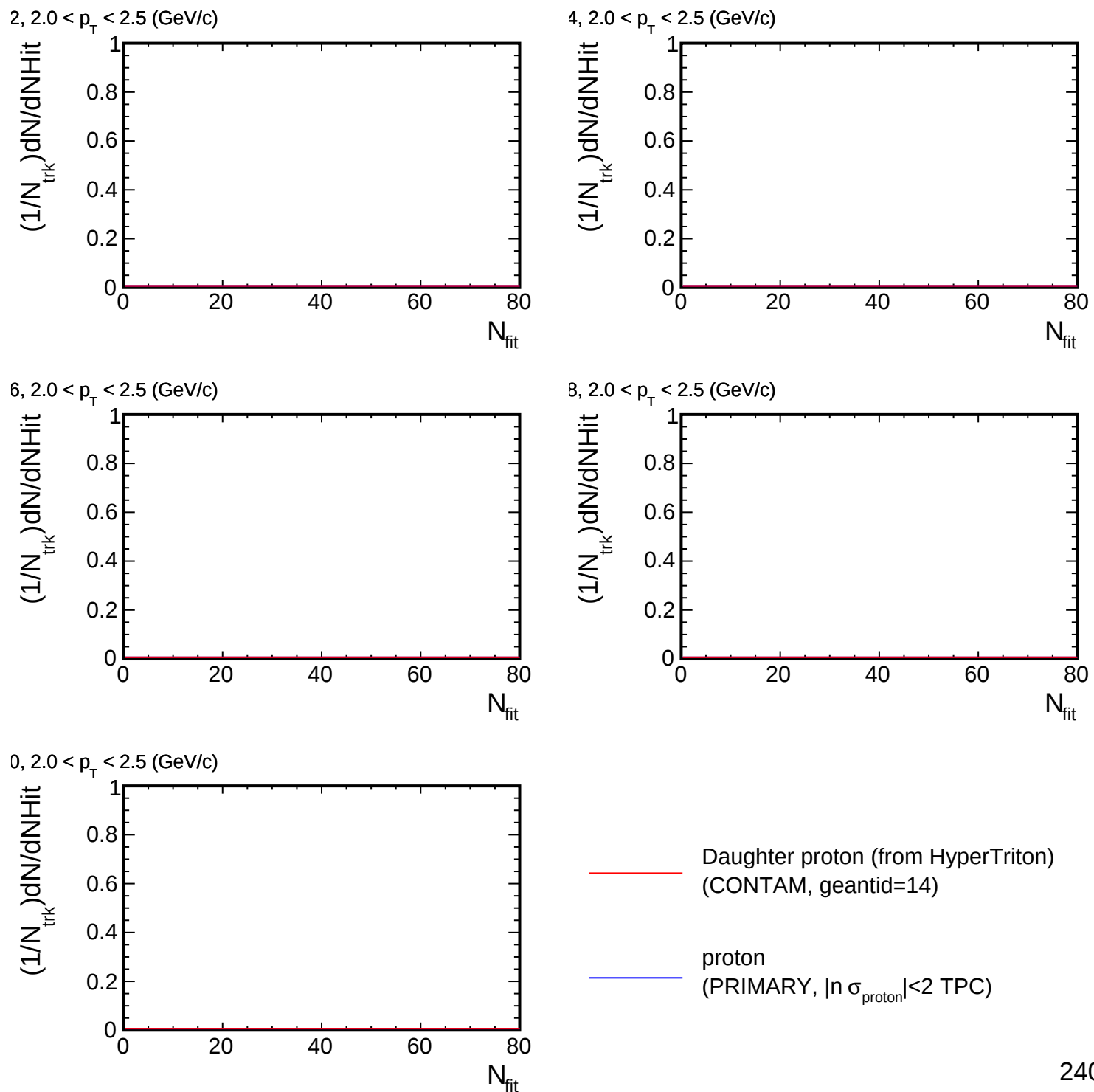
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

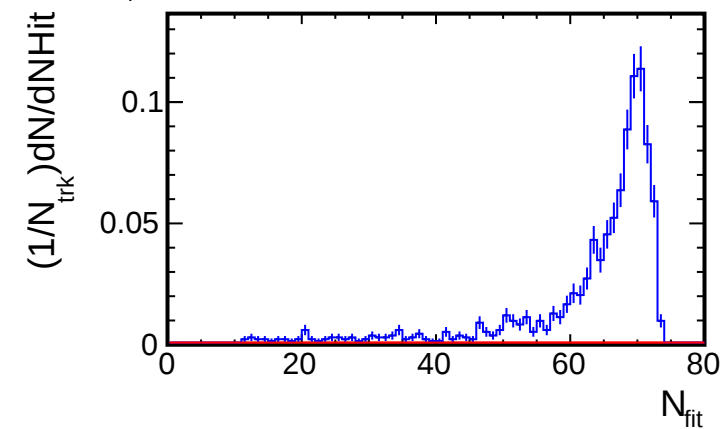


NHit distribution for (p_T , η) slices

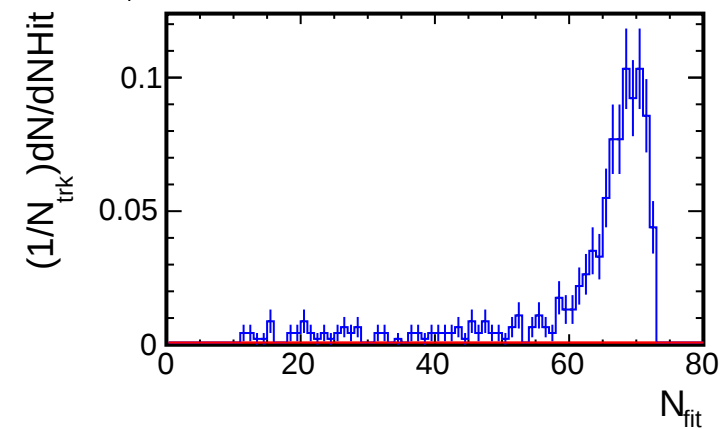


NHit distribution for (p_T , η) slices

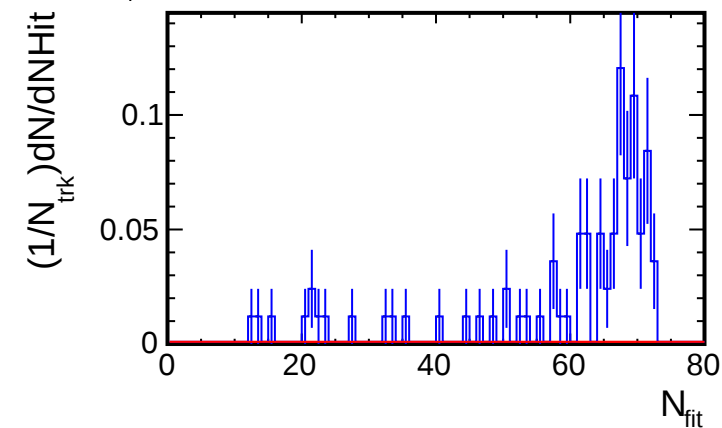
1.8, $2.5 < p_T < 3.0$ (GeV/c)



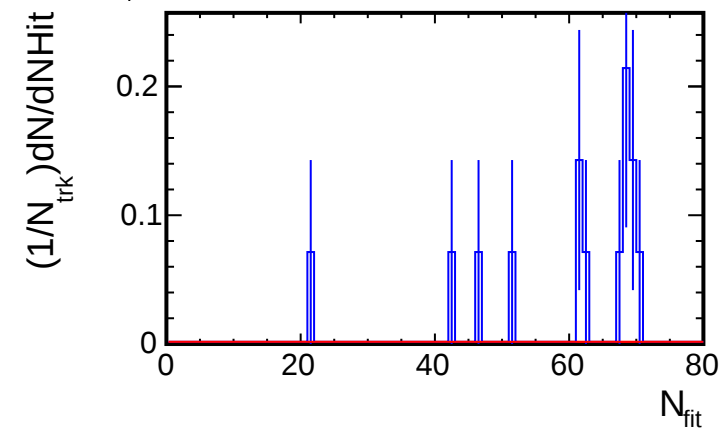
1.6, $2.5 < p_T < 3.0$ (GeV/c)



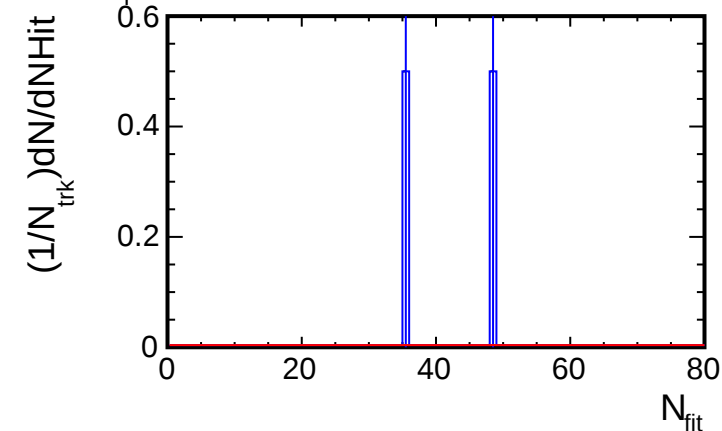
1.4, $2.5 < p_T < 3.0$ (GeV/c)



1.2, $2.5 < p_T < 3.0$ (GeV/c)



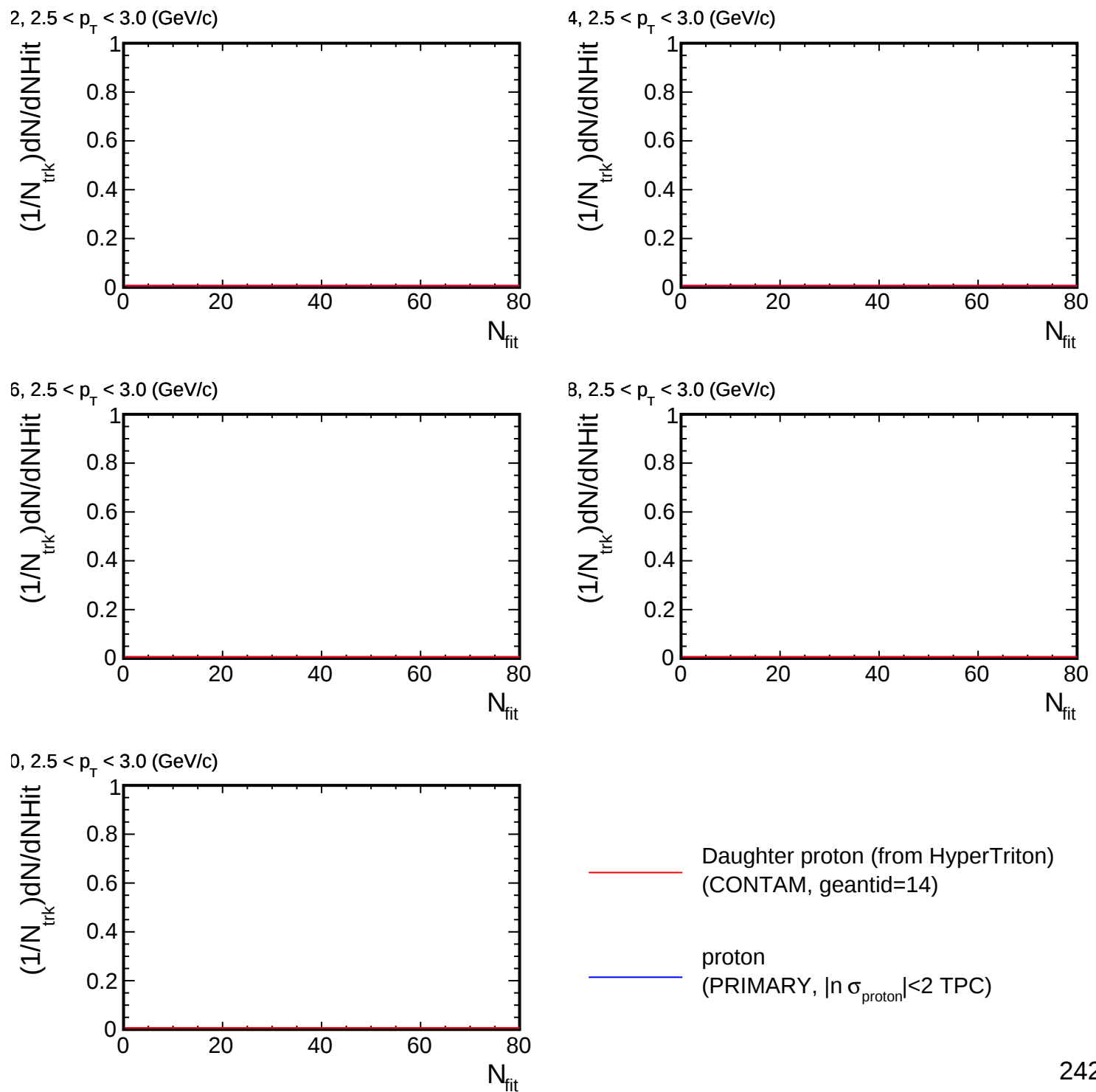
1.0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

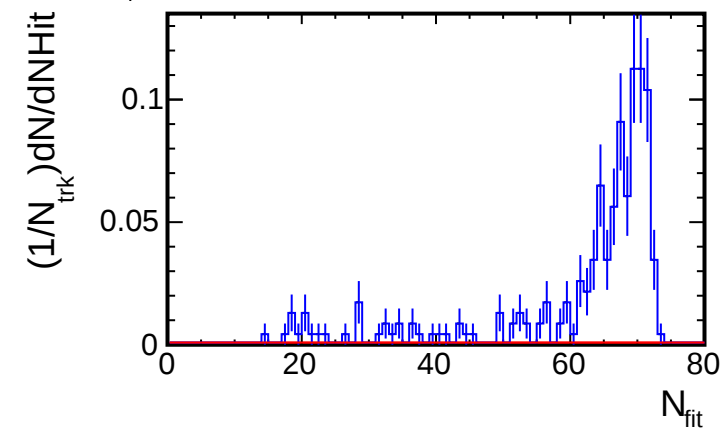
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

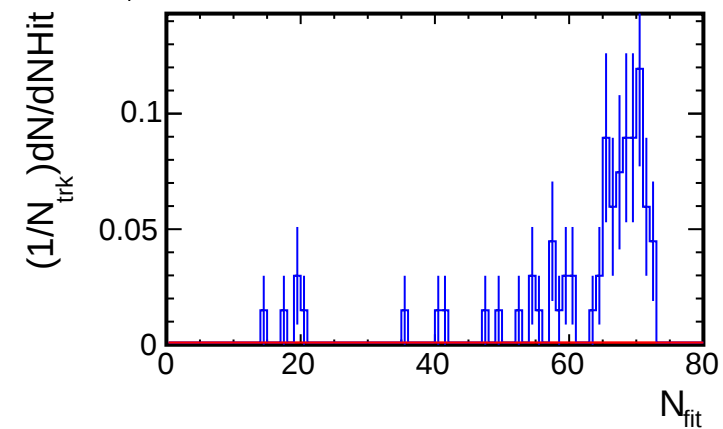


NHit distribution for (p_T , η) slices

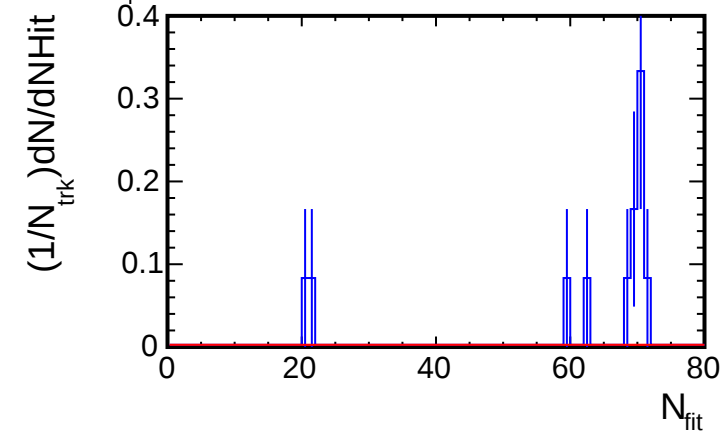
1.8, $3.0 < p_T < 3.5$ (GeV/c)



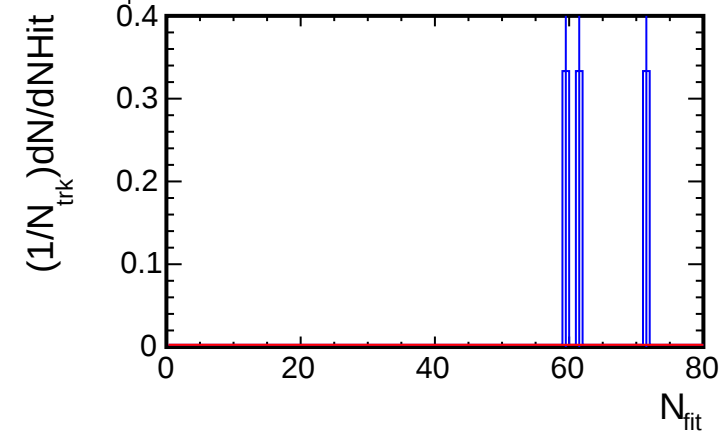
1.6, $3.0 < p_T < 3.5$ (GeV/c)



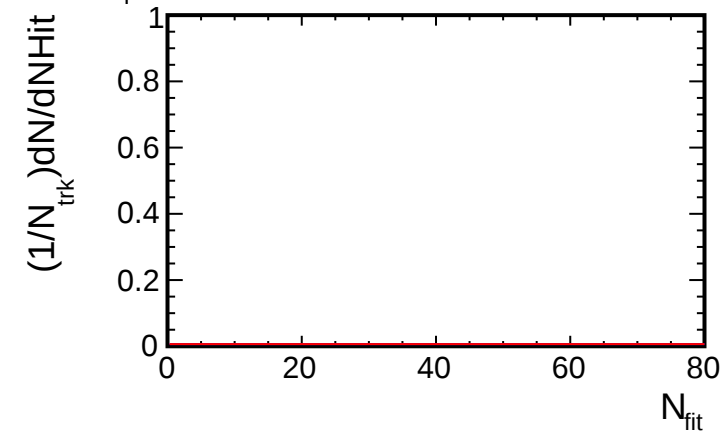
1.4, $3.0 < p_T < 3.5$ (GeV/c)



1.2, $3.0 < p_T < 3.5$ (GeV/c)



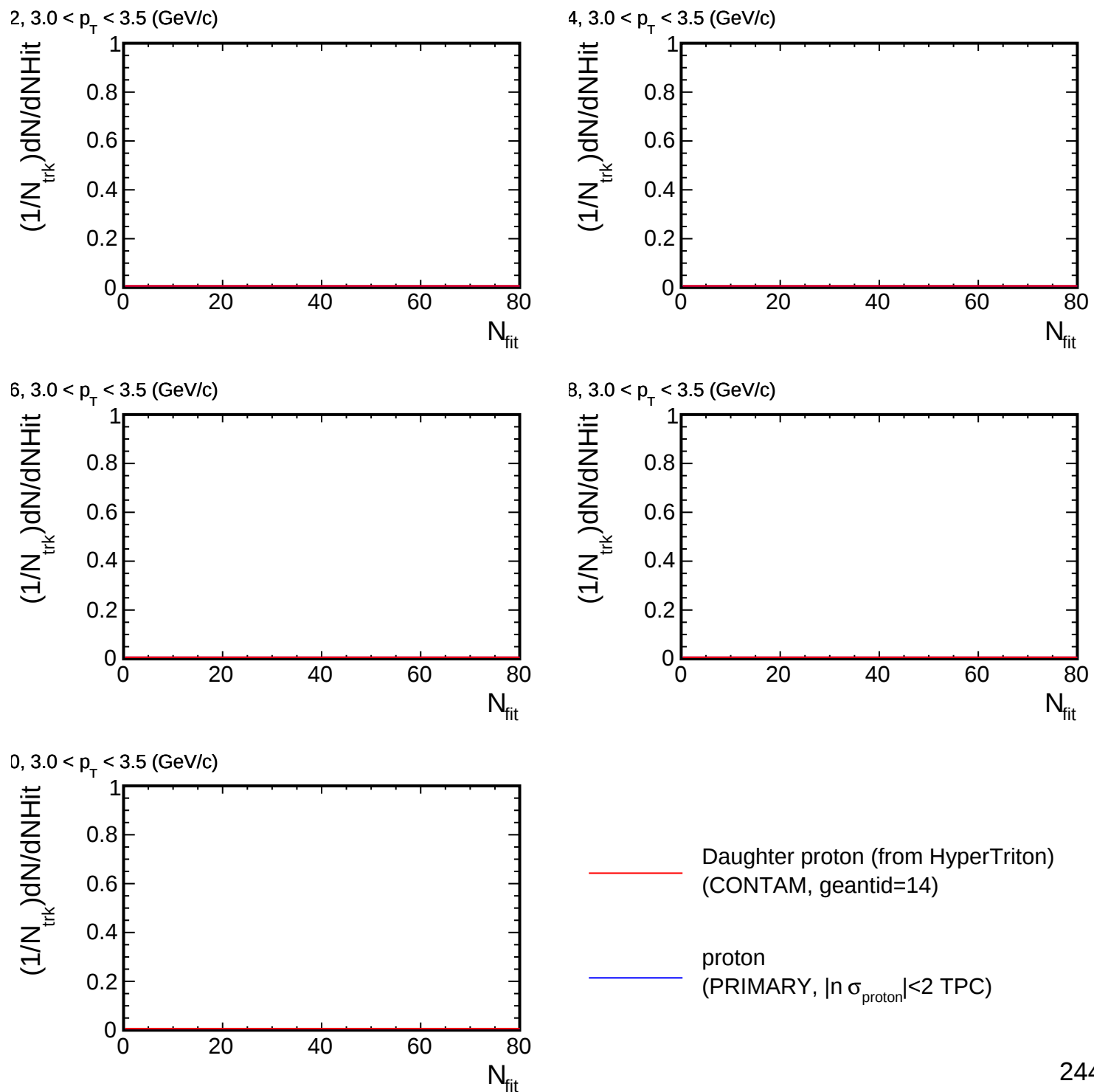
1.0, $3.0 < p_T < 3.5$ (GeV/c)



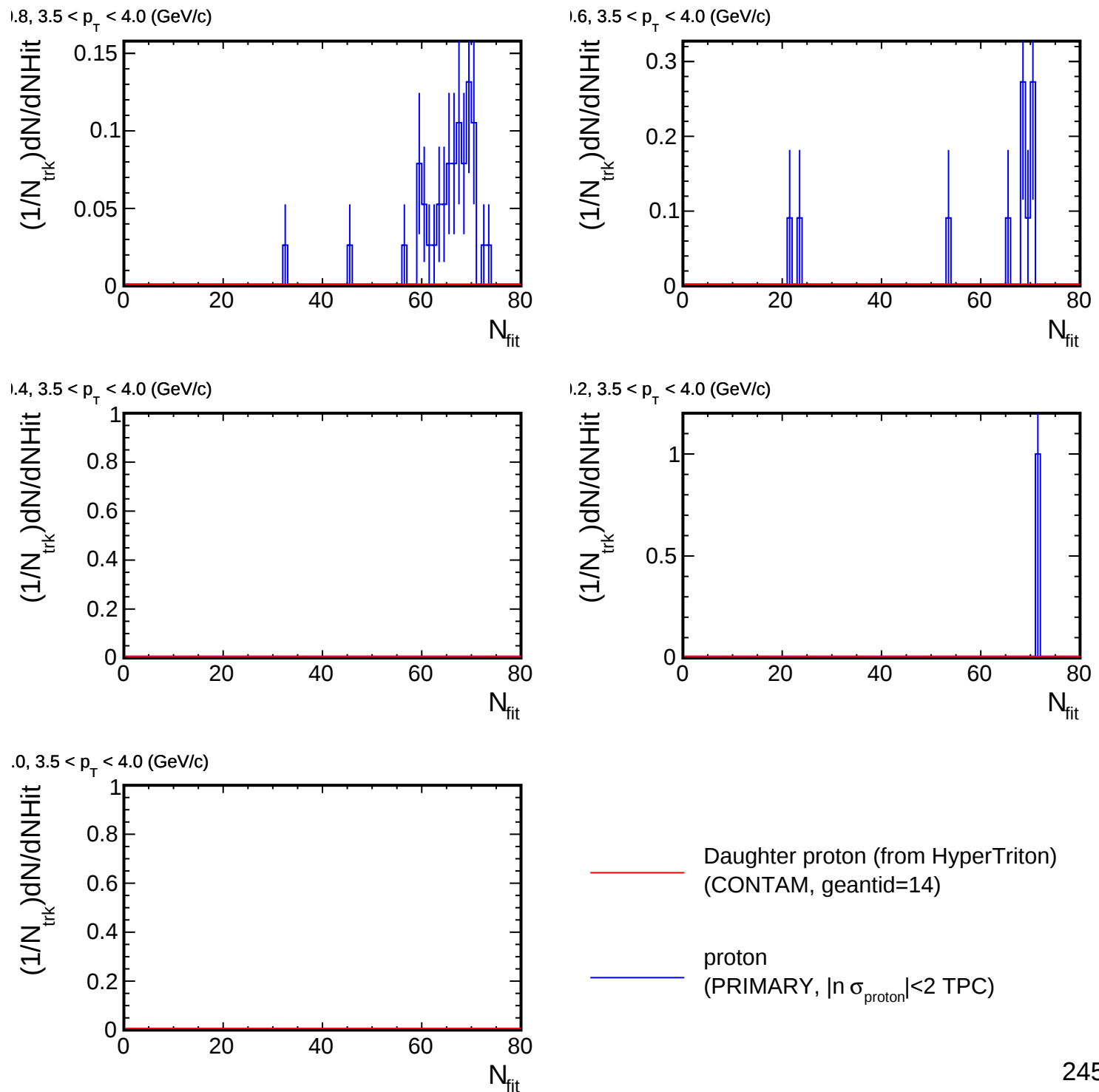
— Daughter proton (from HyperTriton)
(CONTAM, geantid=14)

— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

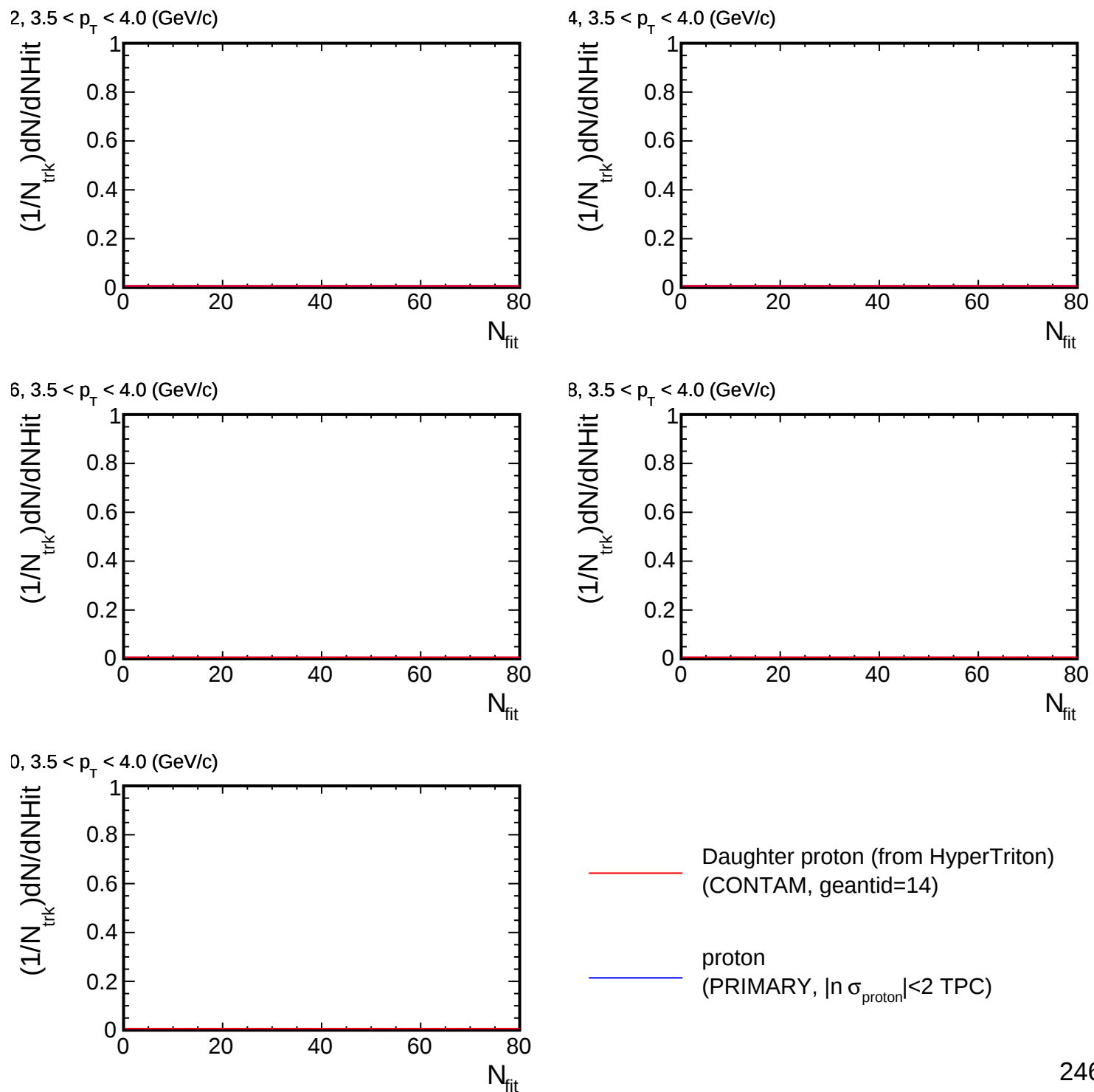
NHit distribution for (p_T , η) slices



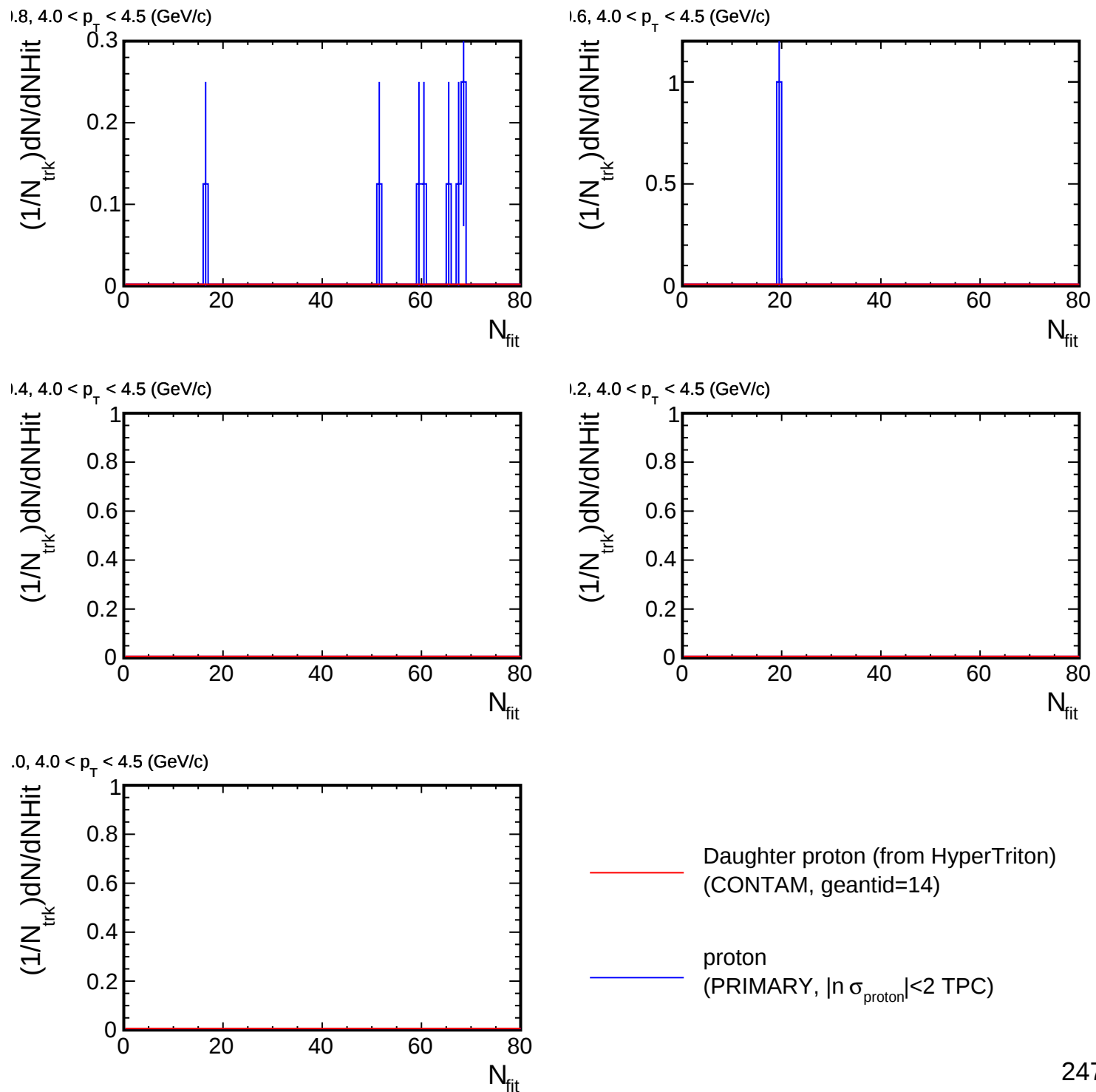
NHit distribution for (p_T , η) slices



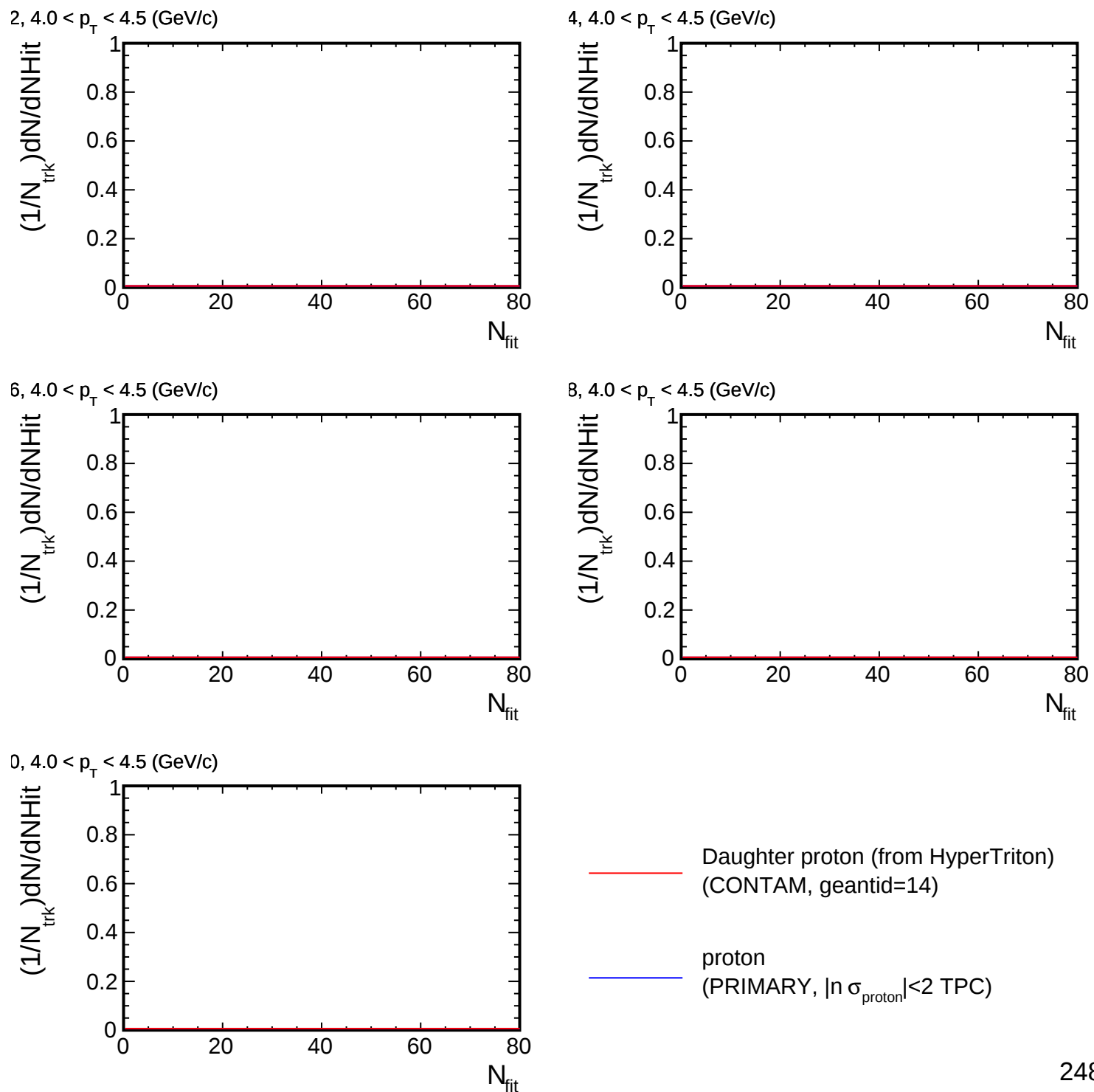
NHit distribution for (p_T , η) slices



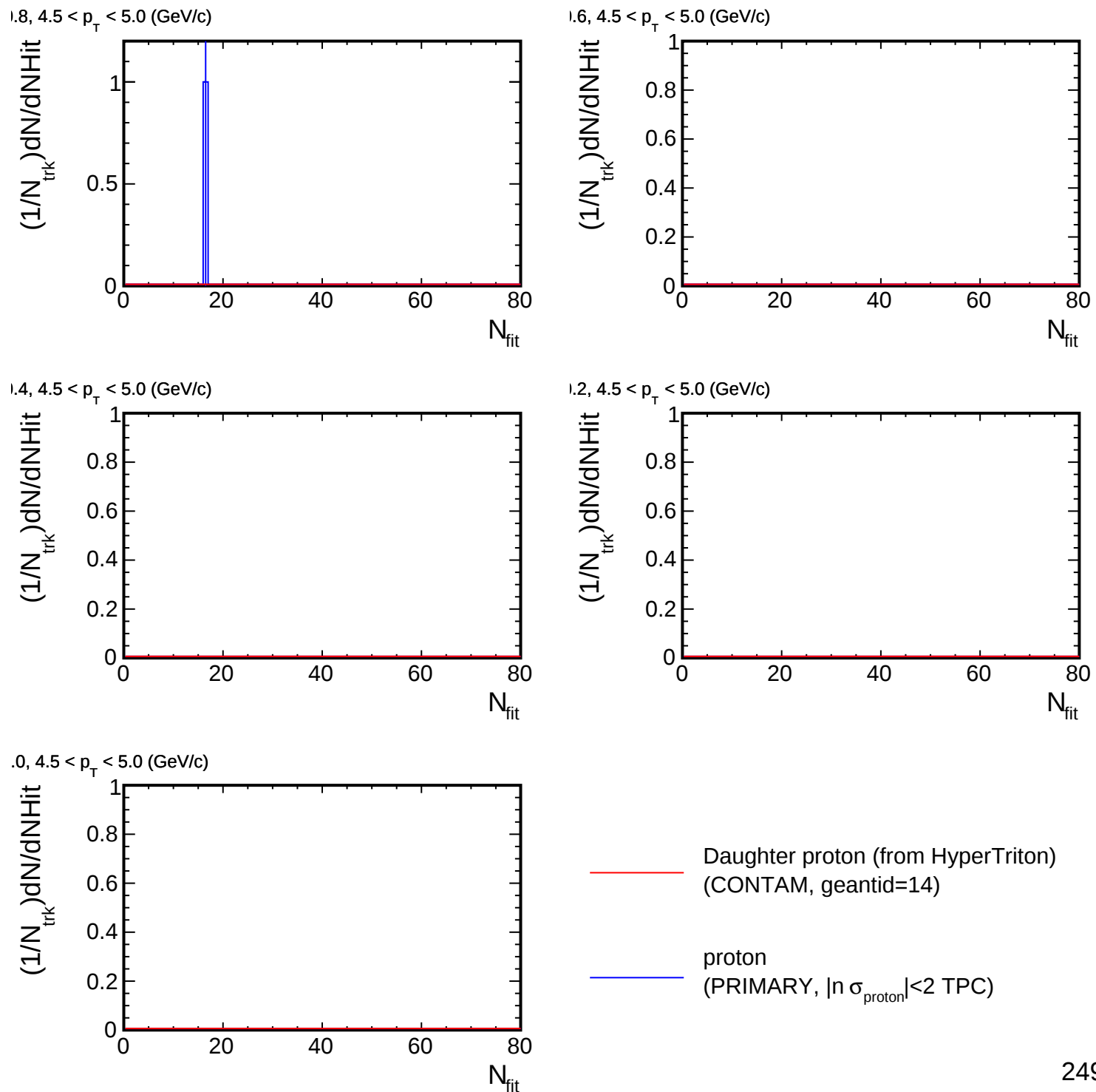
NHit distribution for (p_T , η) slices



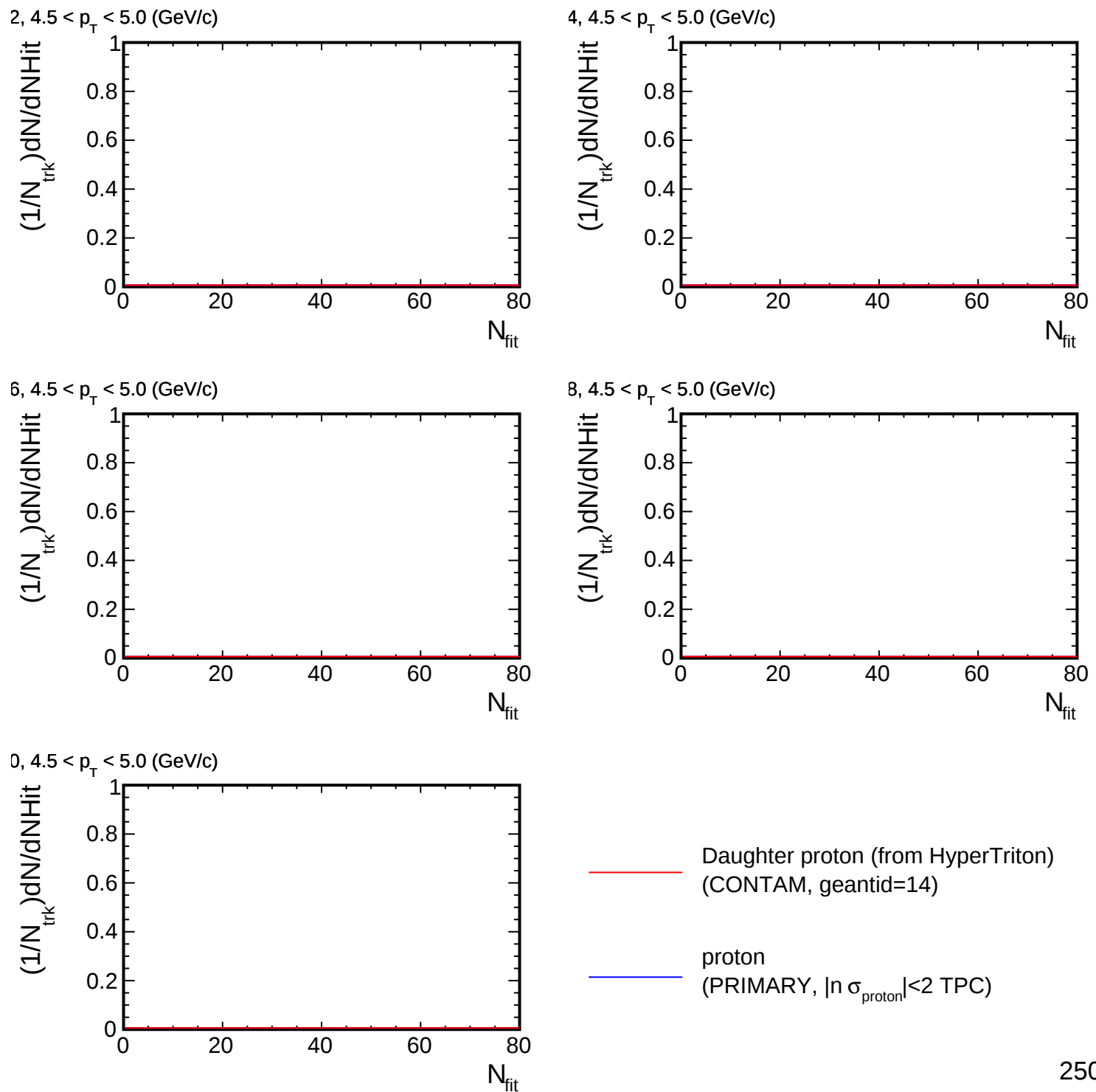
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

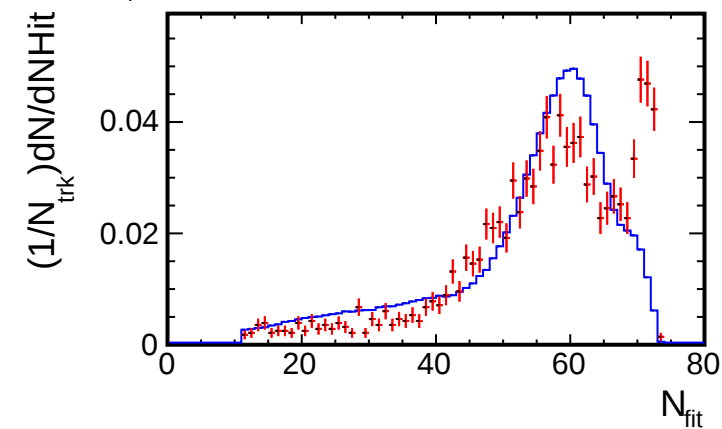


NHit distribution for (p_T , η) slices

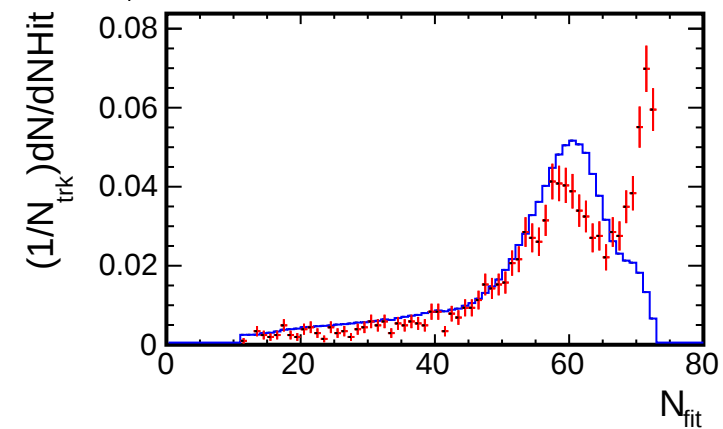


NHit distribution for (p_T , η) slices

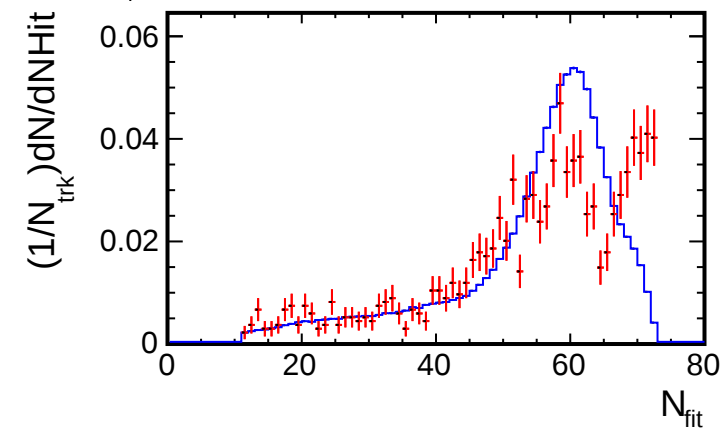
1.8, $0.1 < p_T < 0.5$ (GeV/c)



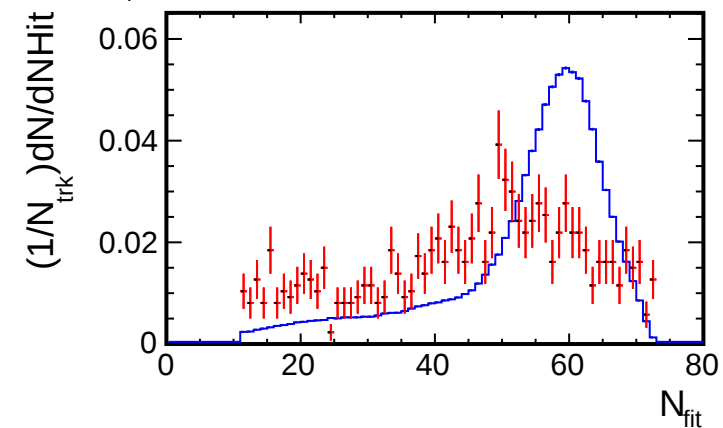
1.6, $0.1 < p_T < 0.5$ (GeV/c)



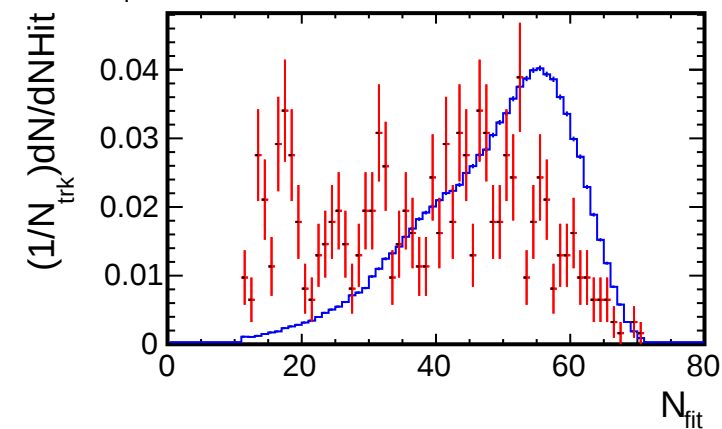
1.4, $0.1 < p_T < 0.5$ (GeV/c)



1.2, $0.1 < p_T < 0.5$ (GeV/c)



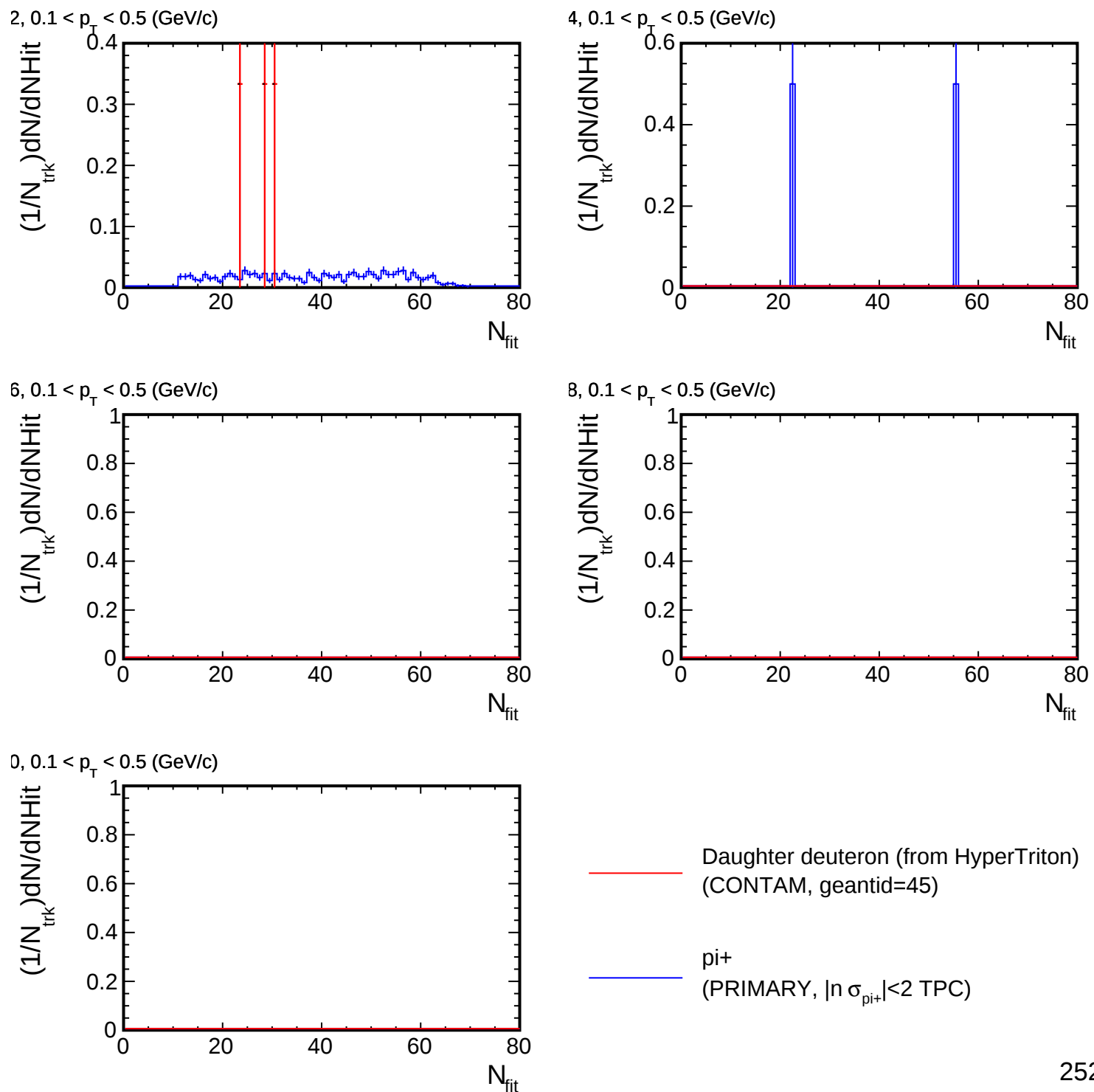
1.0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

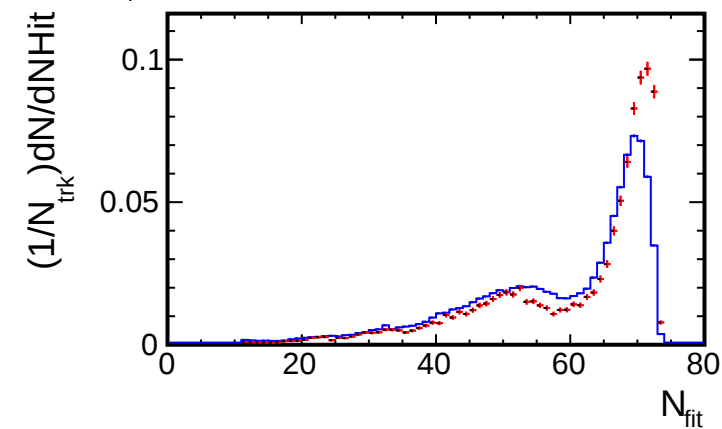
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

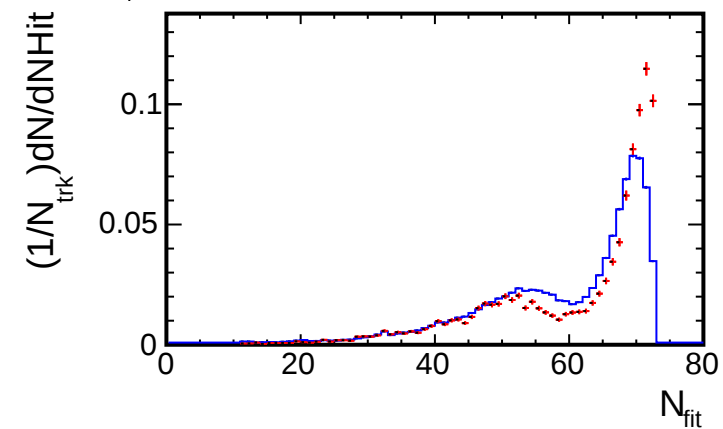


NHit distribution for (p_T , η) slices

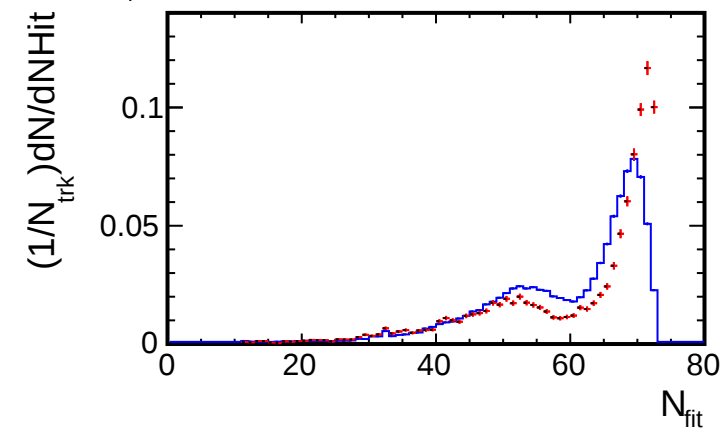
1.8, $0.5 < p_T < 1.0$ (GeV/c)



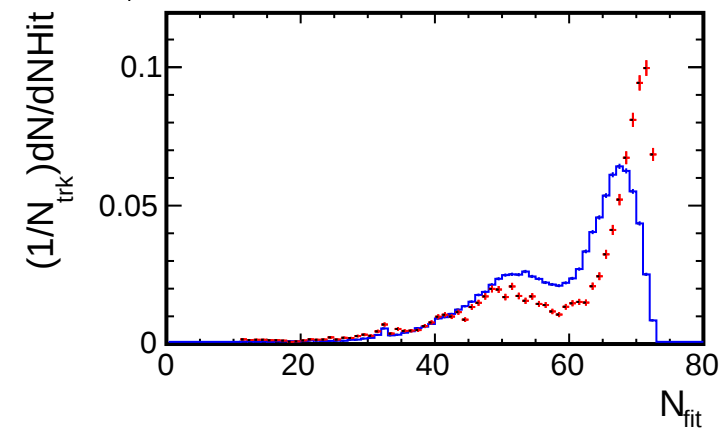
1.6, $0.5 < p_T < 1.0$ (GeV/c)



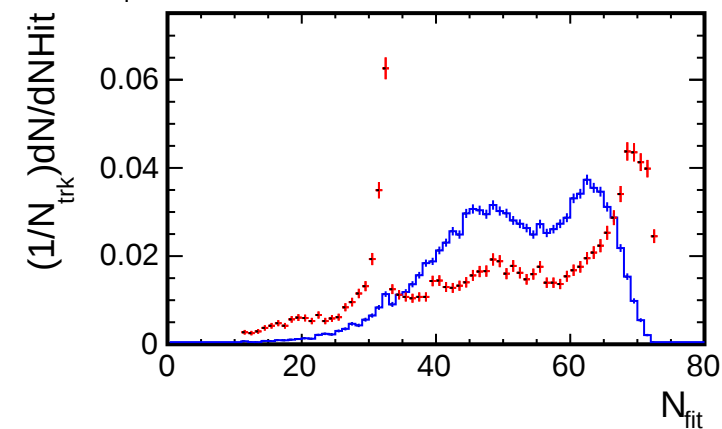
1.4, $0.5 < p_T < 1.0$ (GeV/c)



1.2, $0.5 < p_T < 1.0$ (GeV/c)



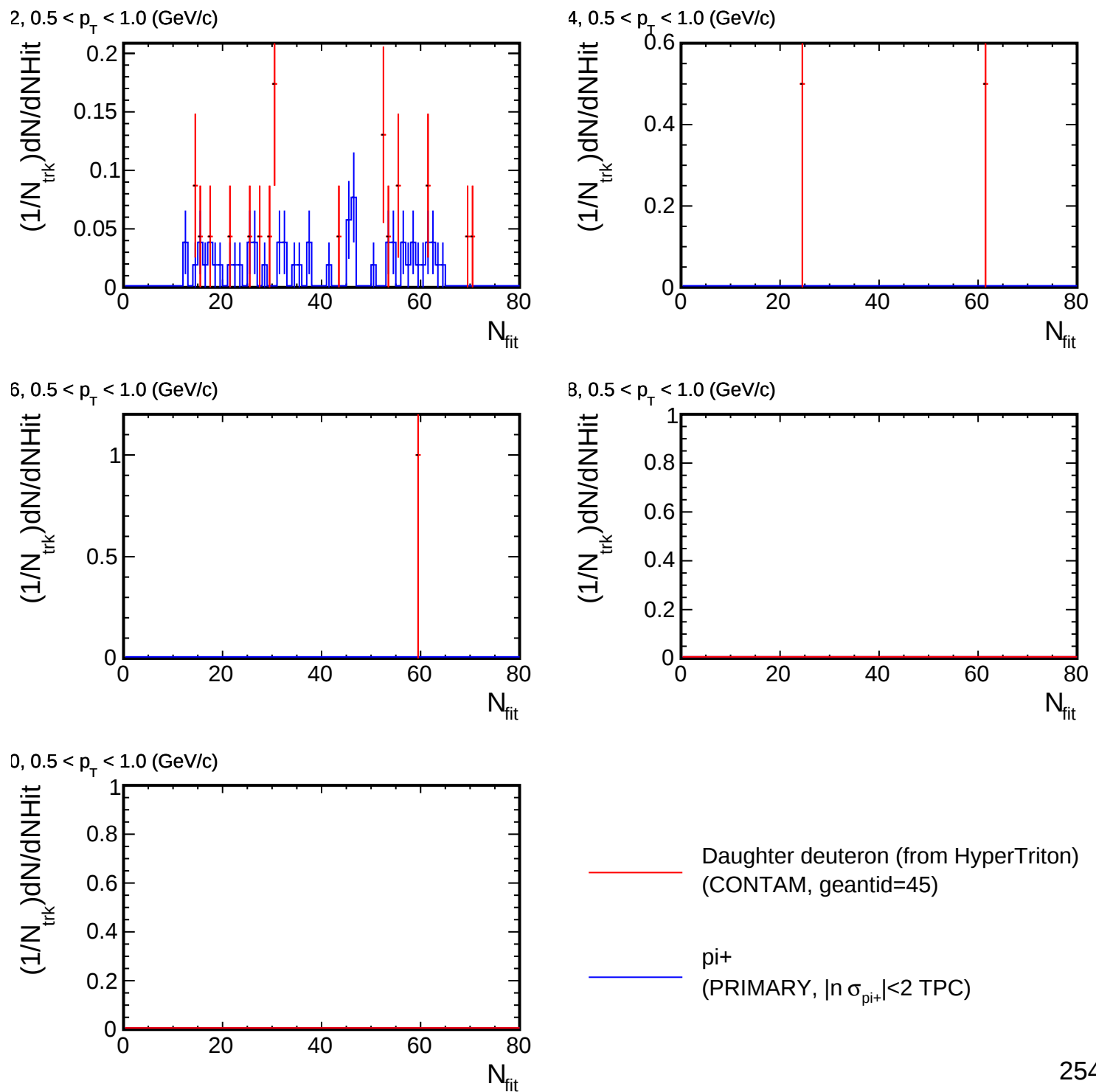
1.0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

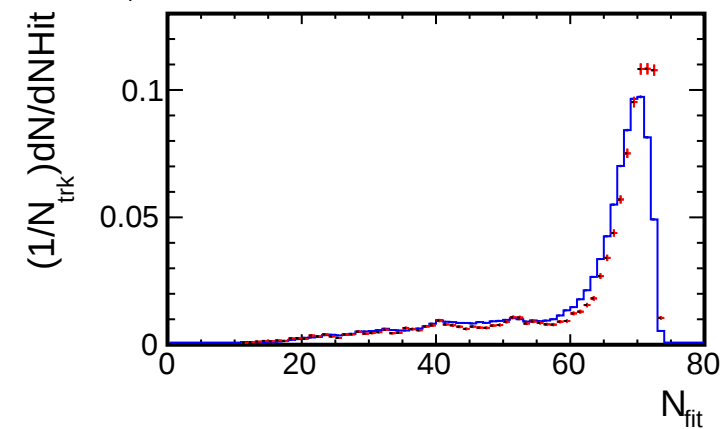
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

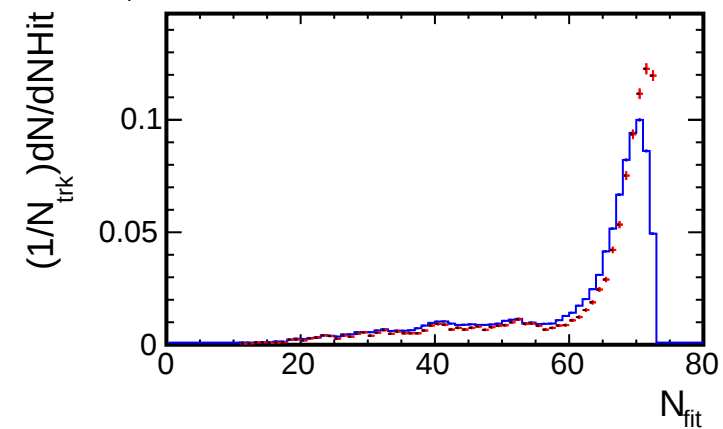


NHit distribution for (p_T , η) slices

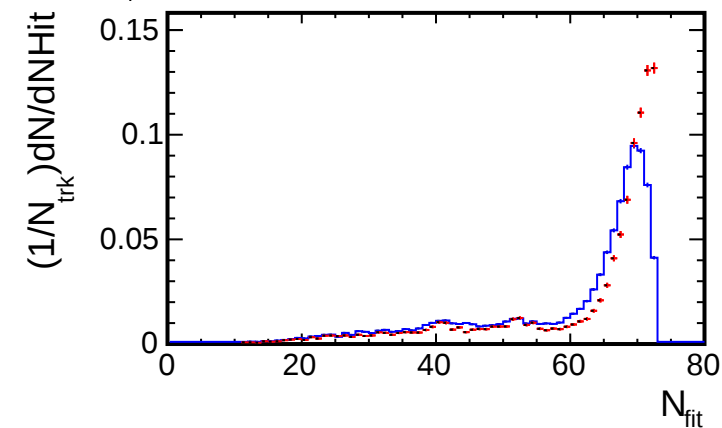
1.8, $1.0 < p_T < 1.5$ (GeV/c)



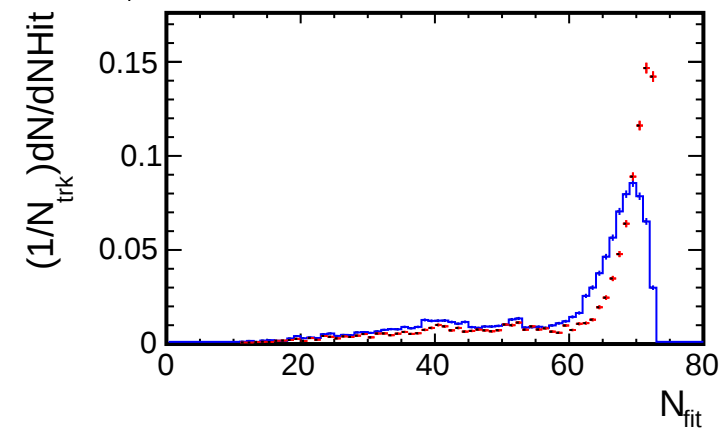
1.6, $1.0 < p_T < 1.5$ (GeV/c)



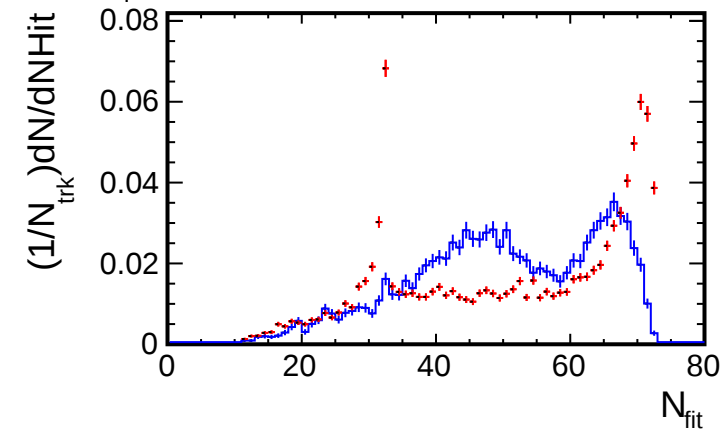
1.4, $1.0 < p_T < 1.5$ (GeV/c)



1.2, $1.0 < p_T < 1.5$ (GeV/c)



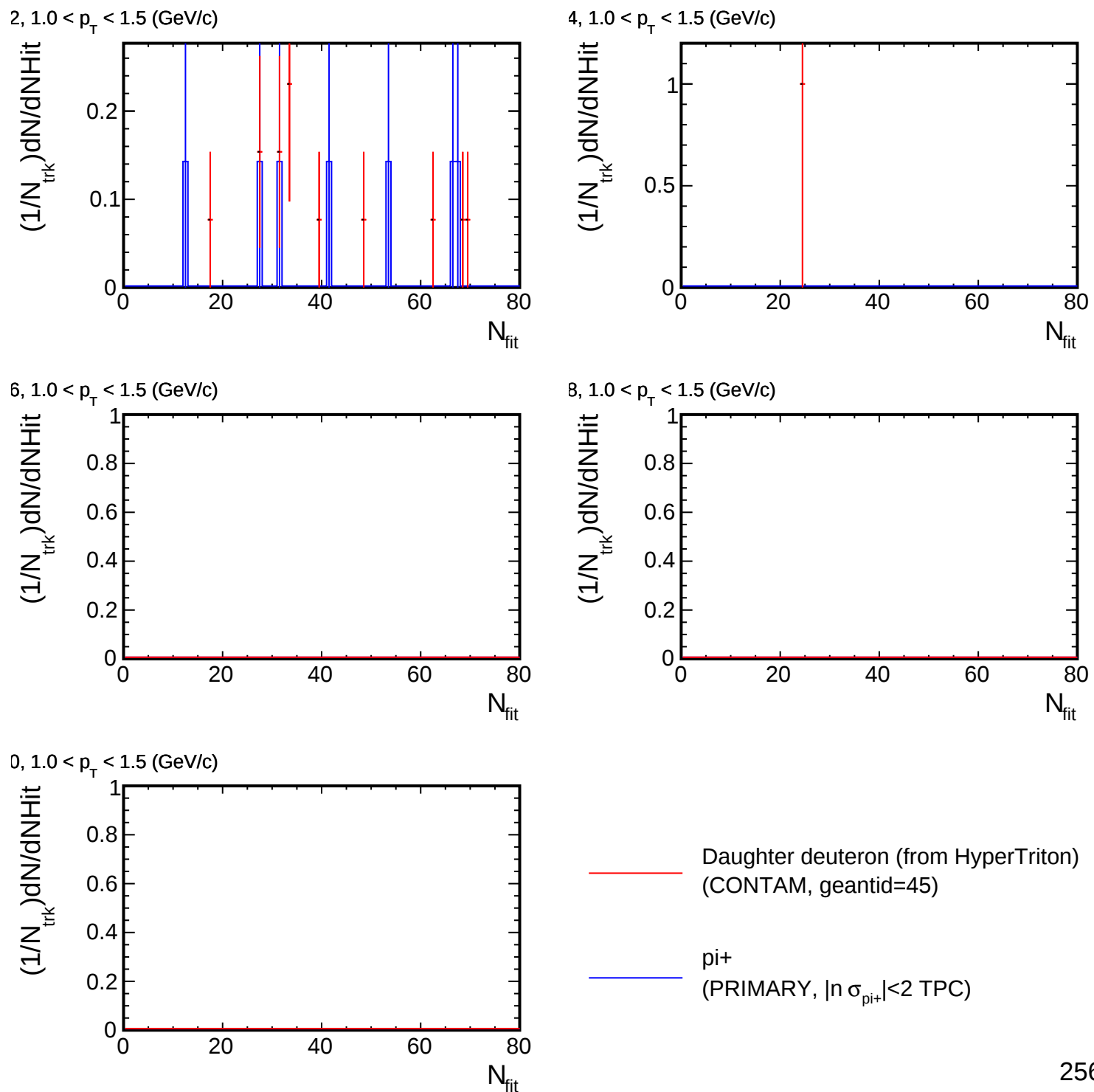
1.0, $1.0 < p_T < 1.5$ (GeV/c)



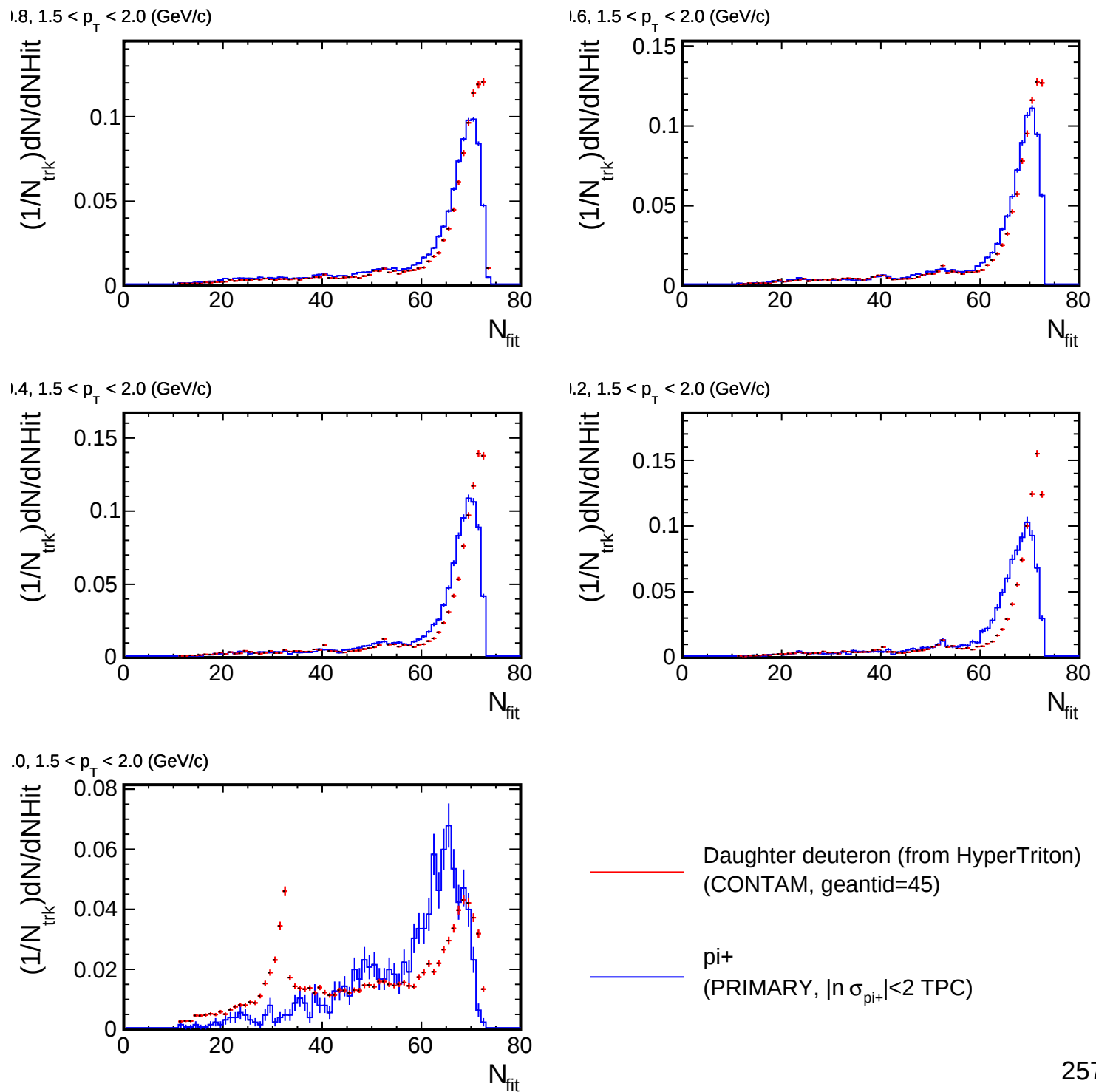
— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

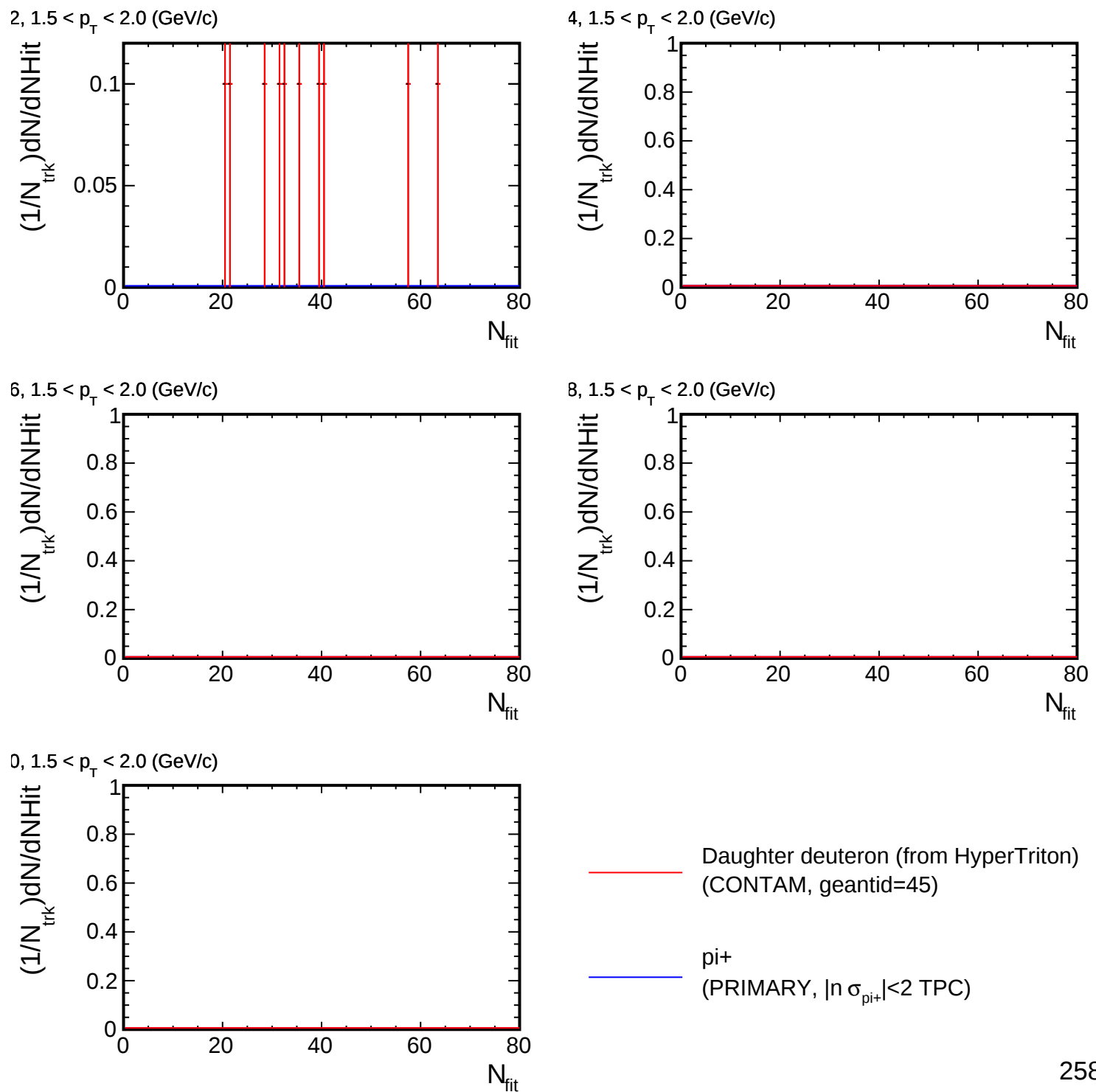
NHit distribution for (p_T , η) slices



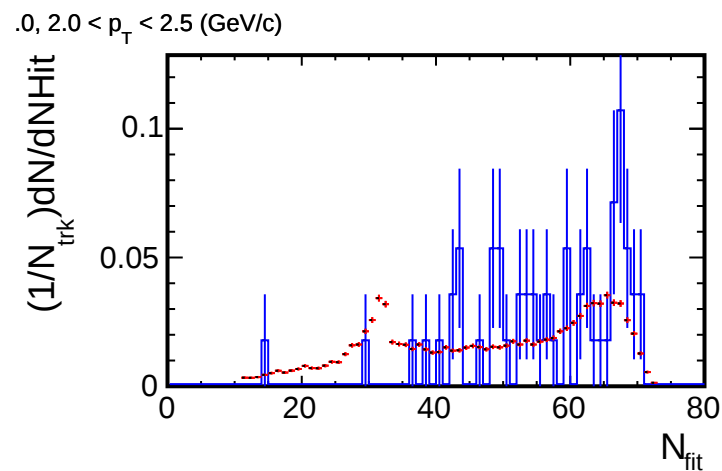
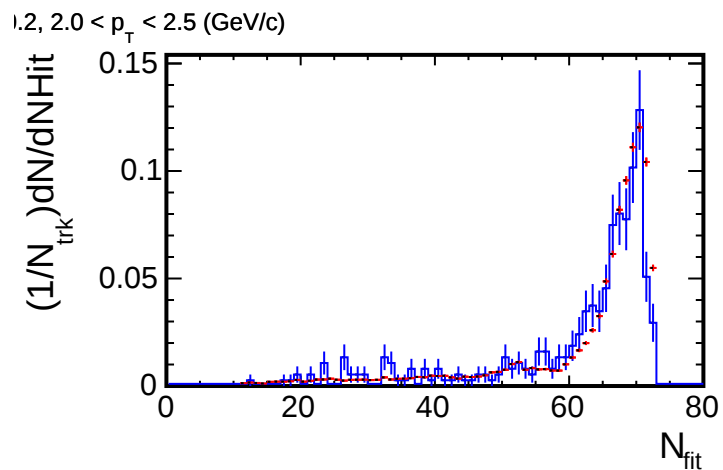
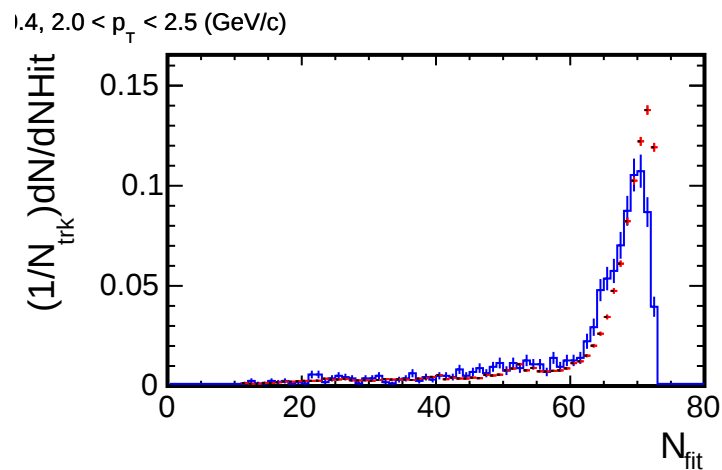
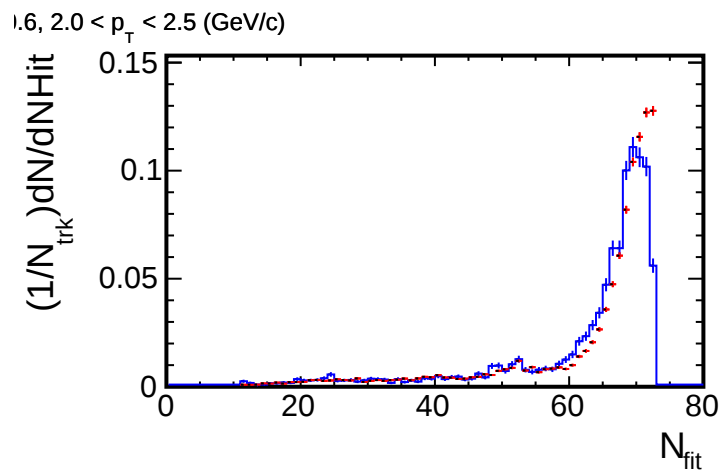
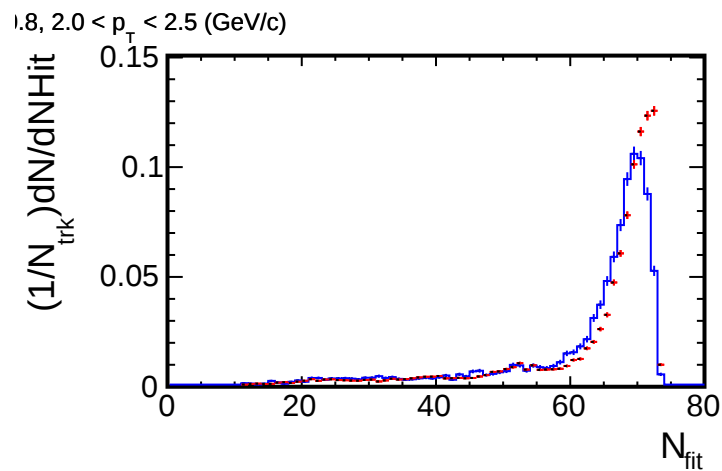
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices



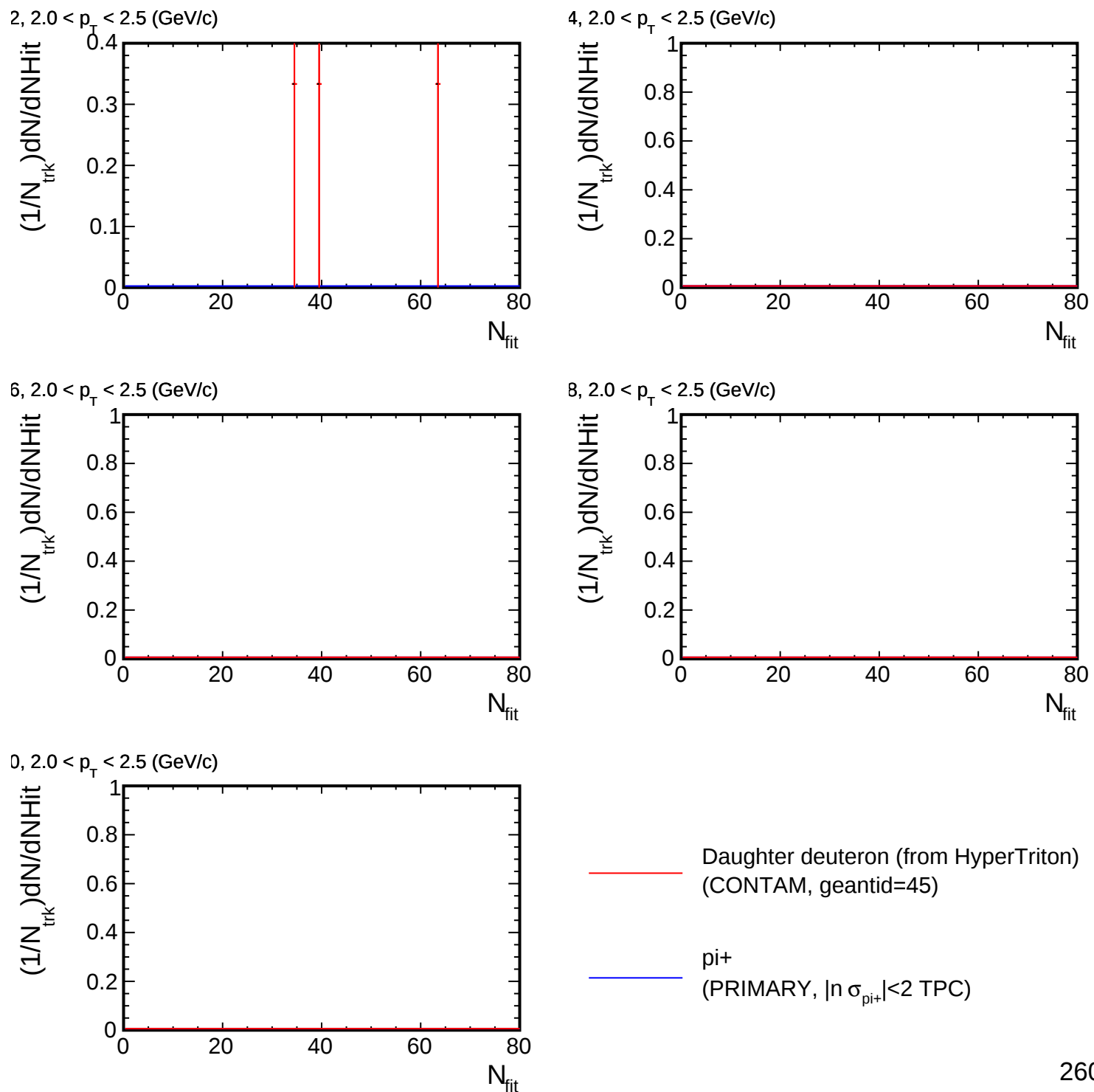
NHit distribution for (p_T , η) slices



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

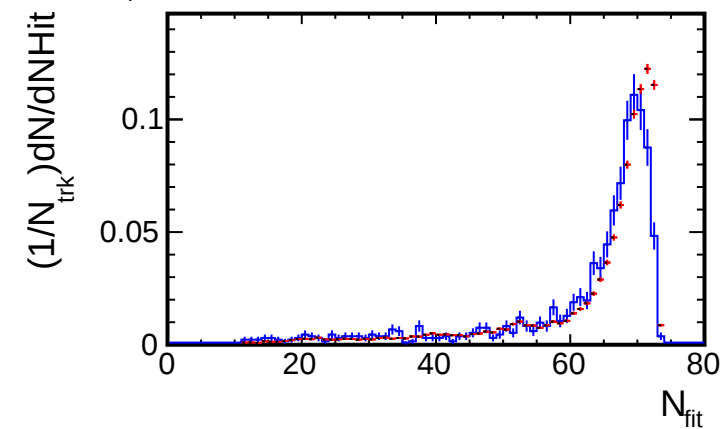
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

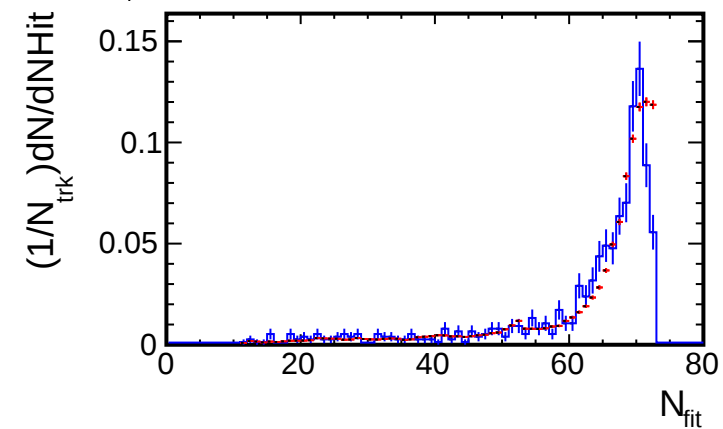


NHit distribution for (p_T , η) slices

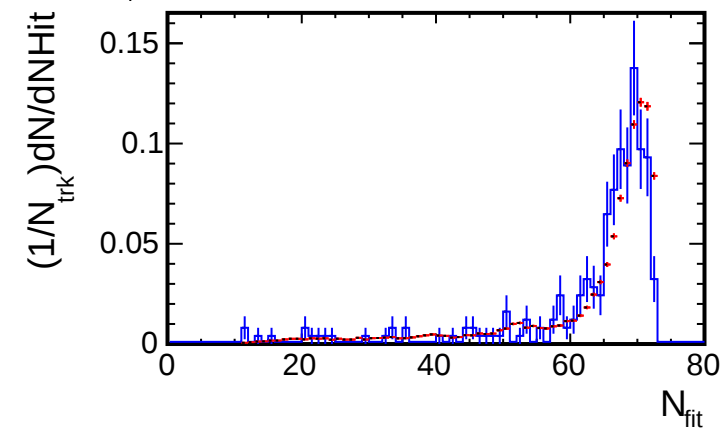
1.8, $2.5 < p_T < 3.0$ (GeV/c)



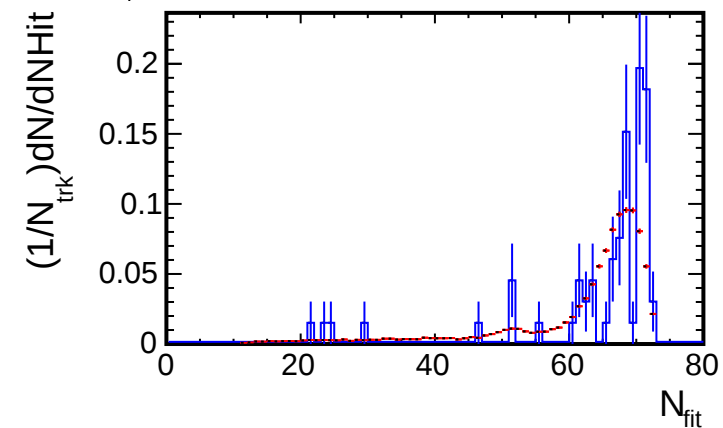
1.6, $2.5 < p_T < 3.0$ (GeV/c)



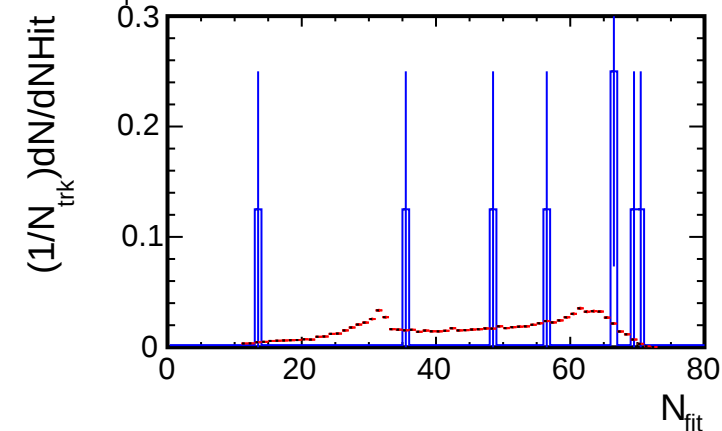
1.4, $2.5 < p_T < 3.0$ (GeV/c)



1.2, $2.5 < p_T < 3.0$ (GeV/c)



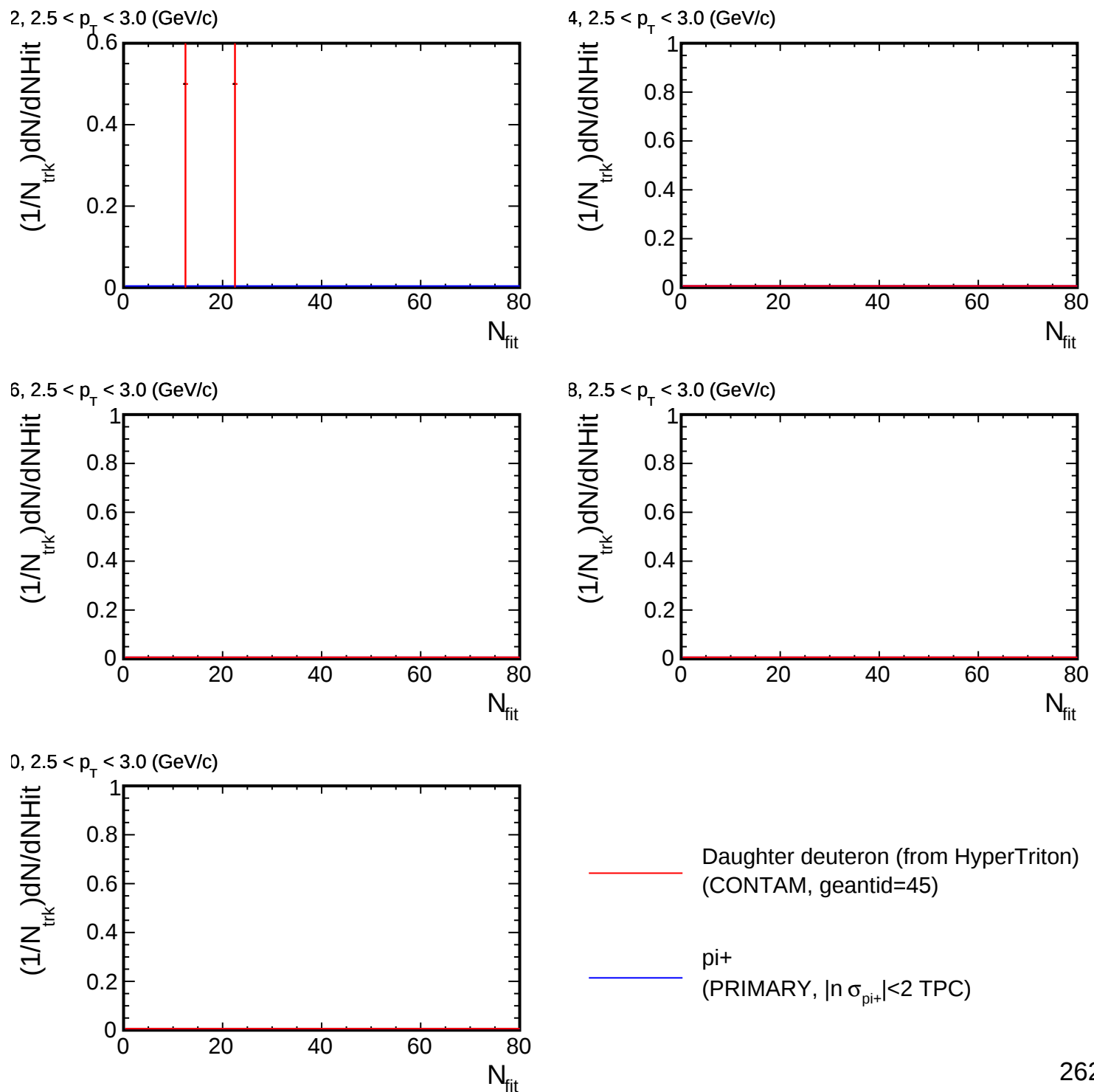
1.0, $2.5 < p_T < 3.0$ (GeV/c)



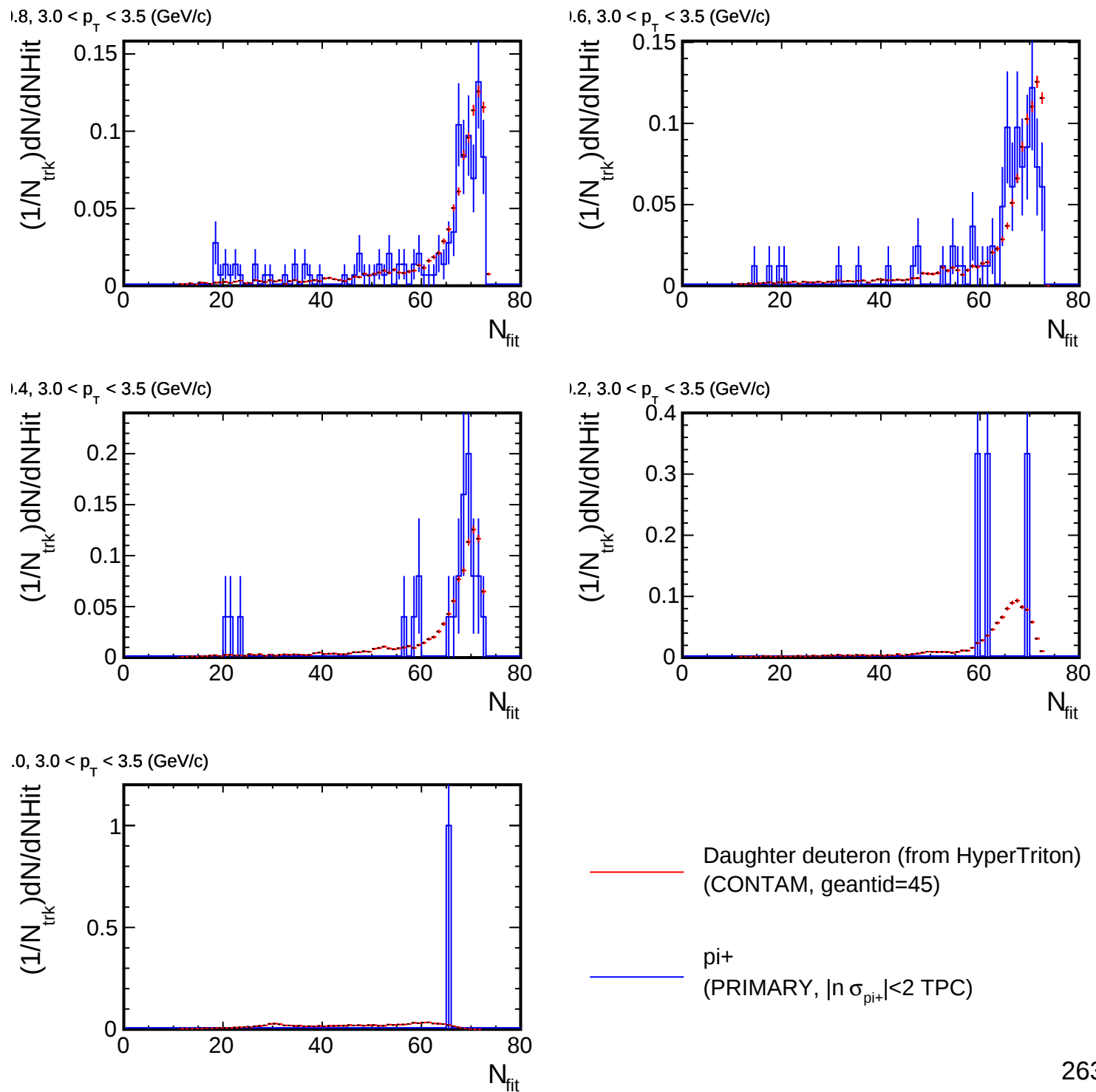
— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— π^+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

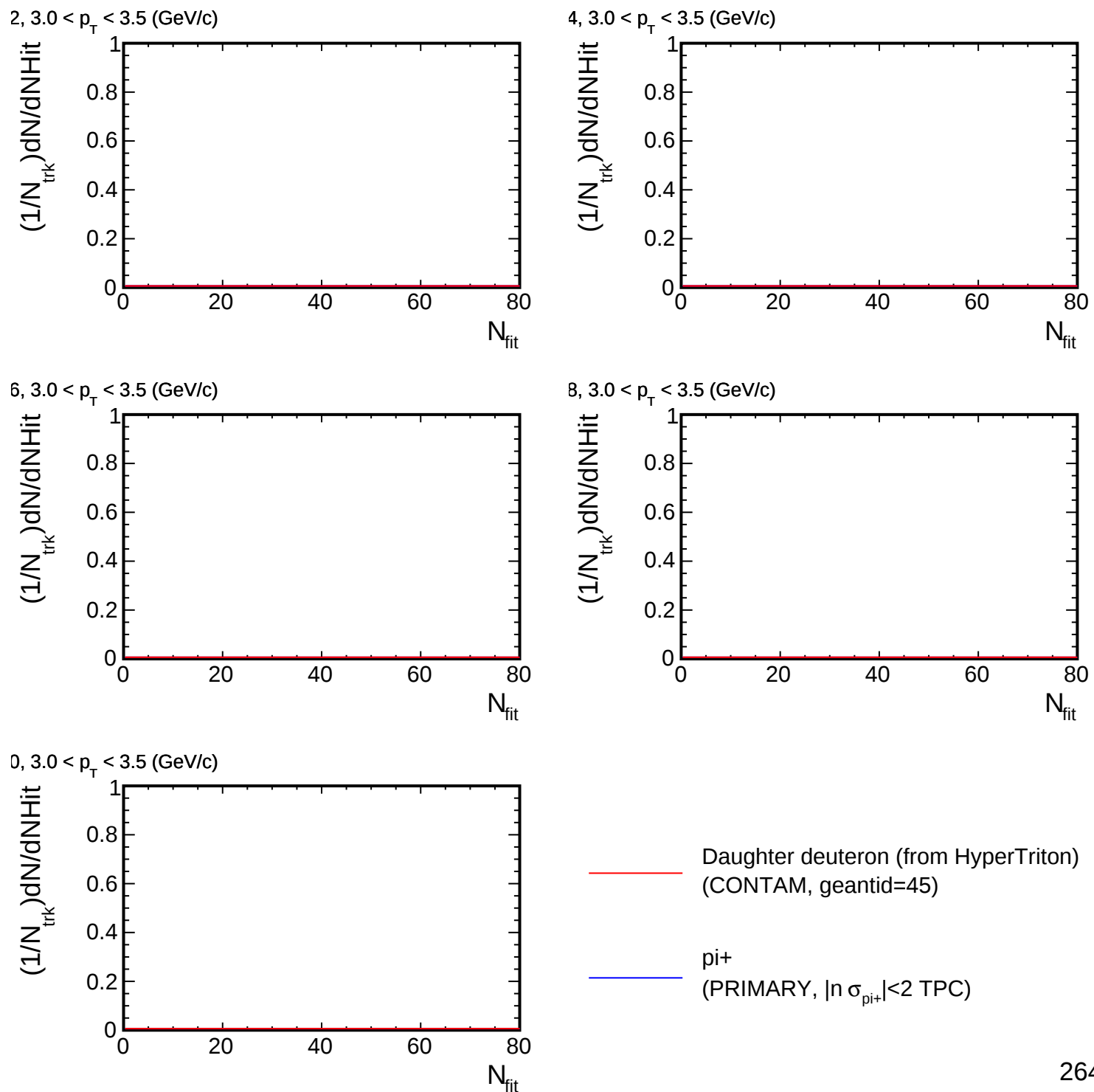
NHit distribution for (p_T , η) slices



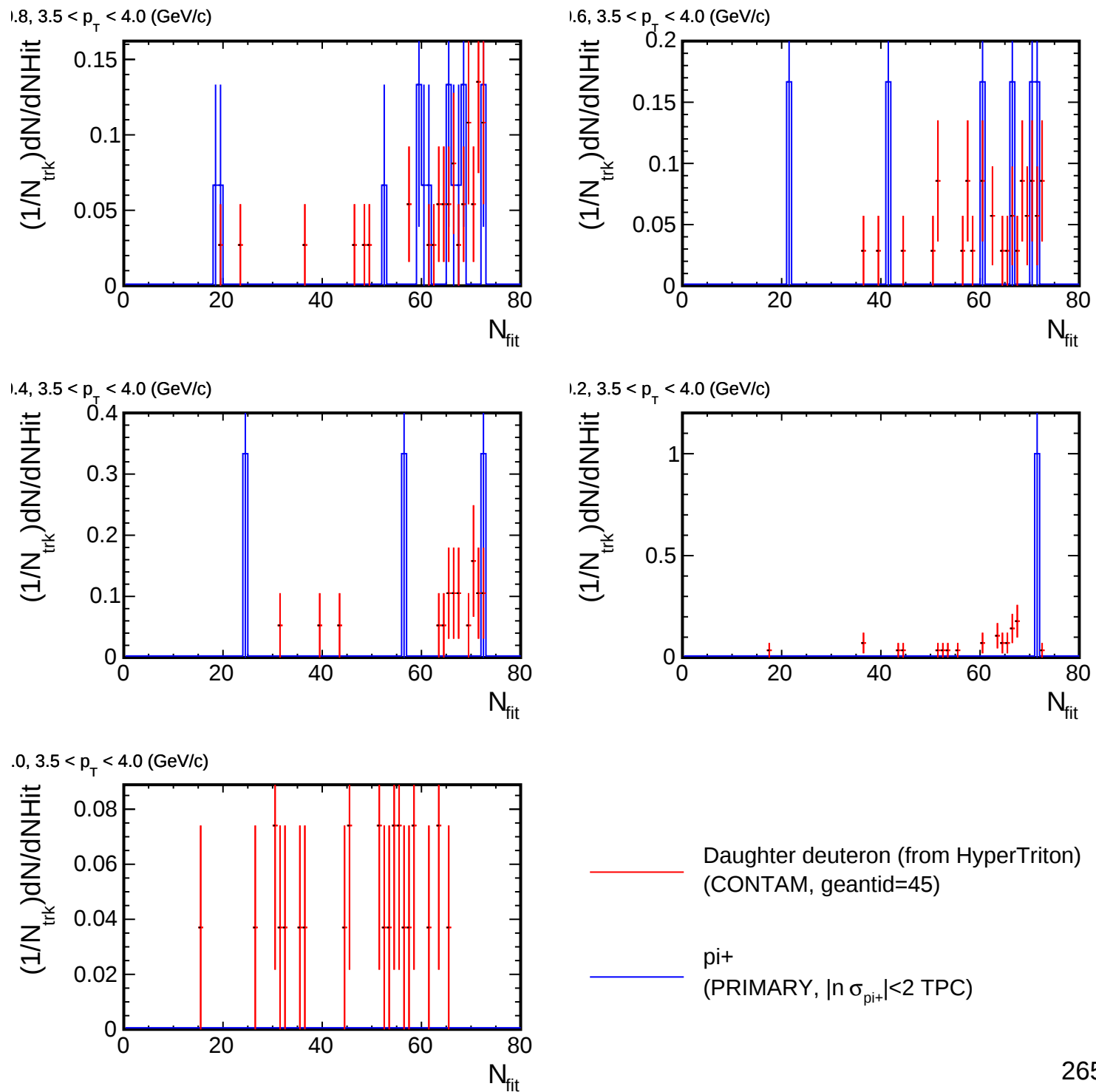
NHit distribution for (p_T , η) slices



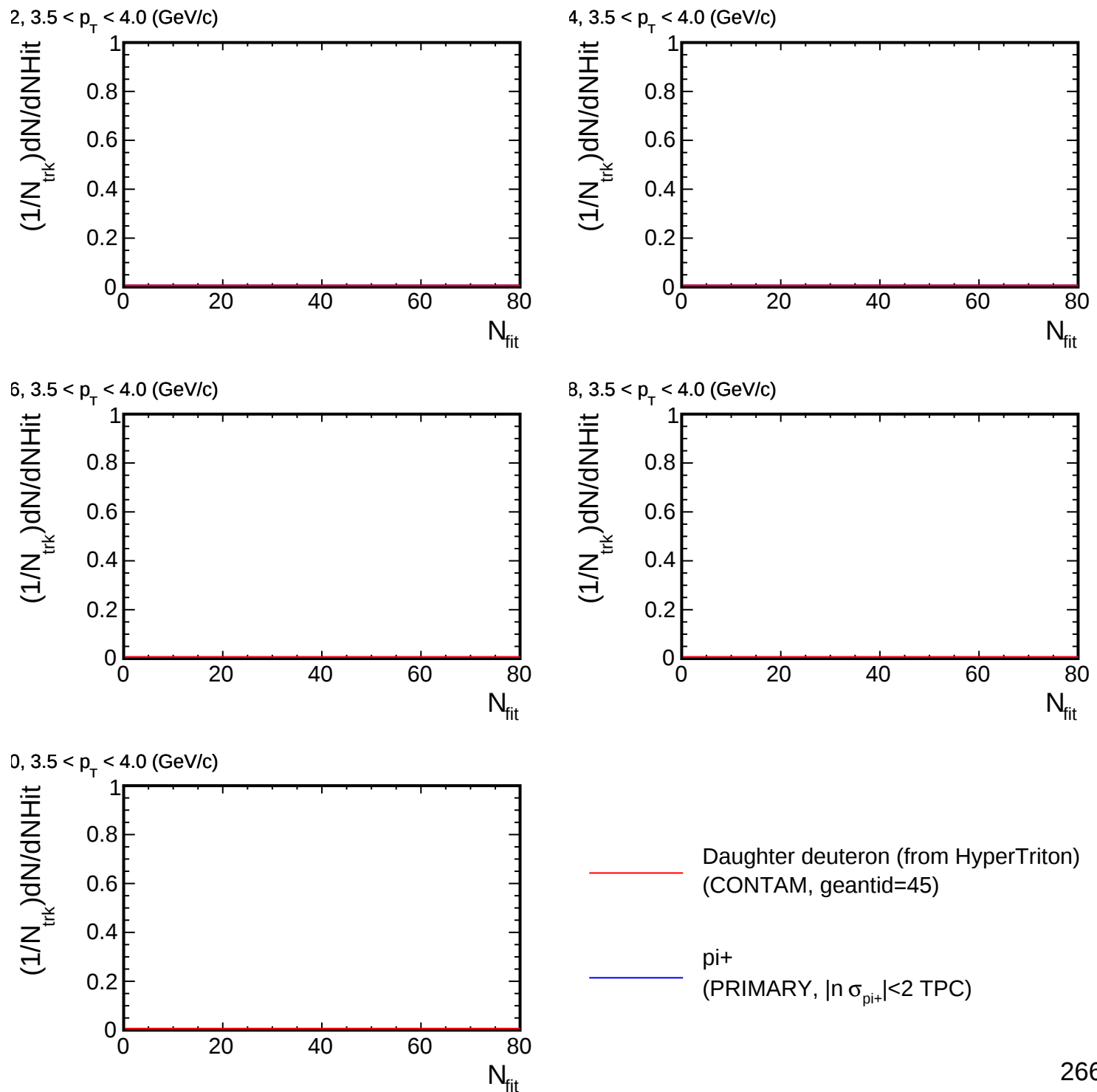
NHit distribution for (p_T , η) slices



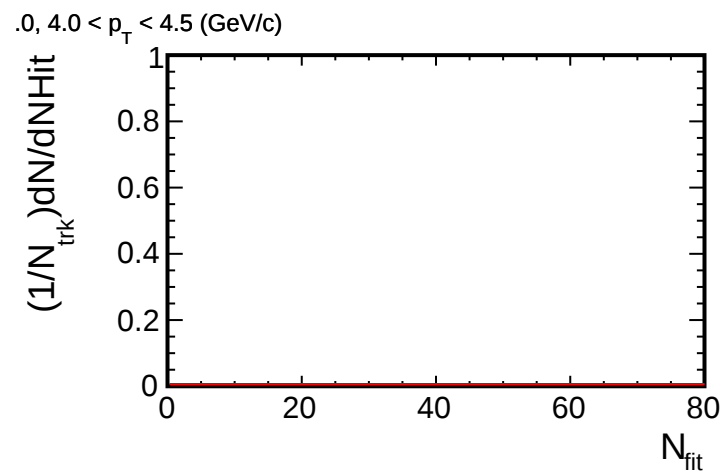
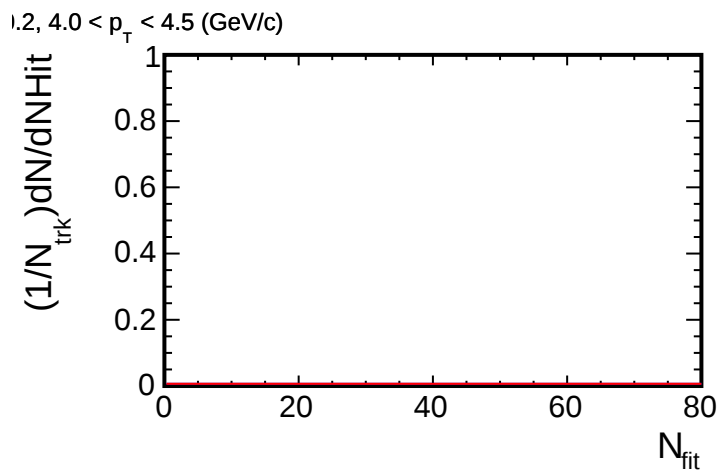
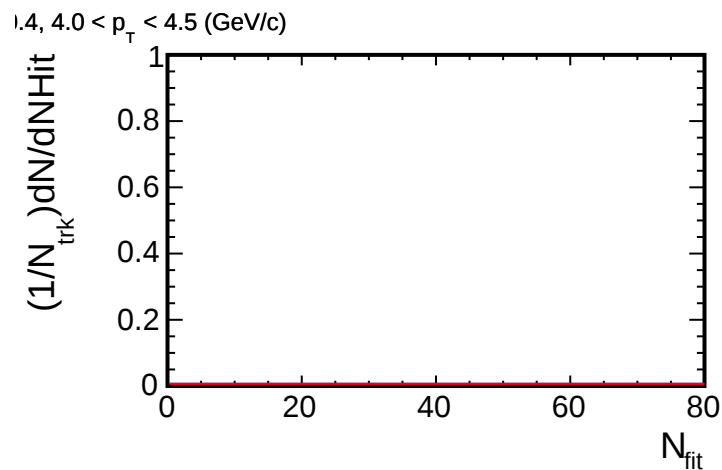
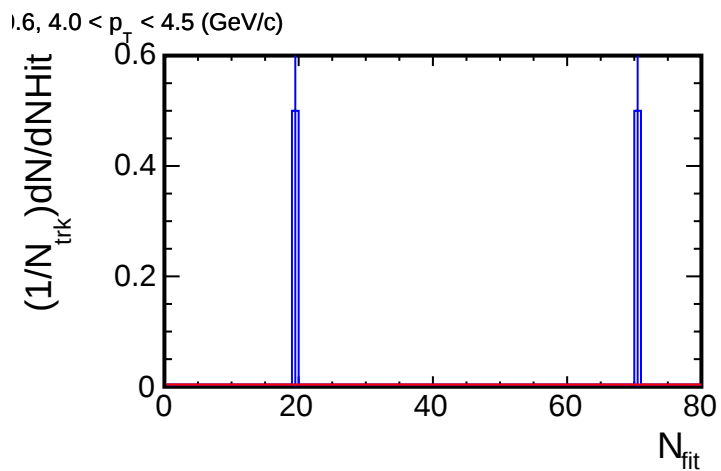
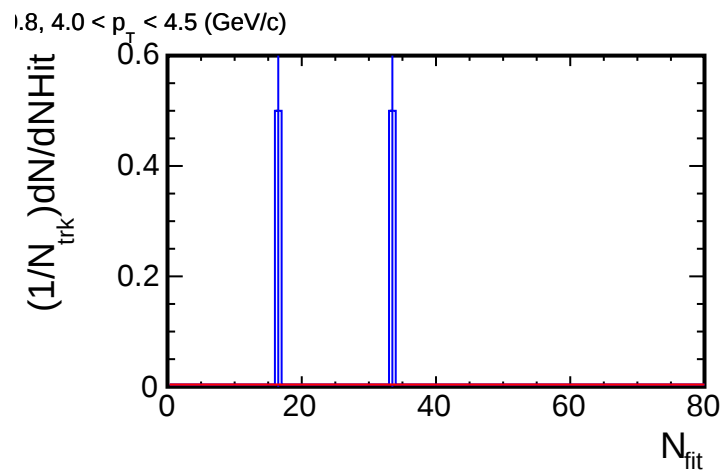
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices



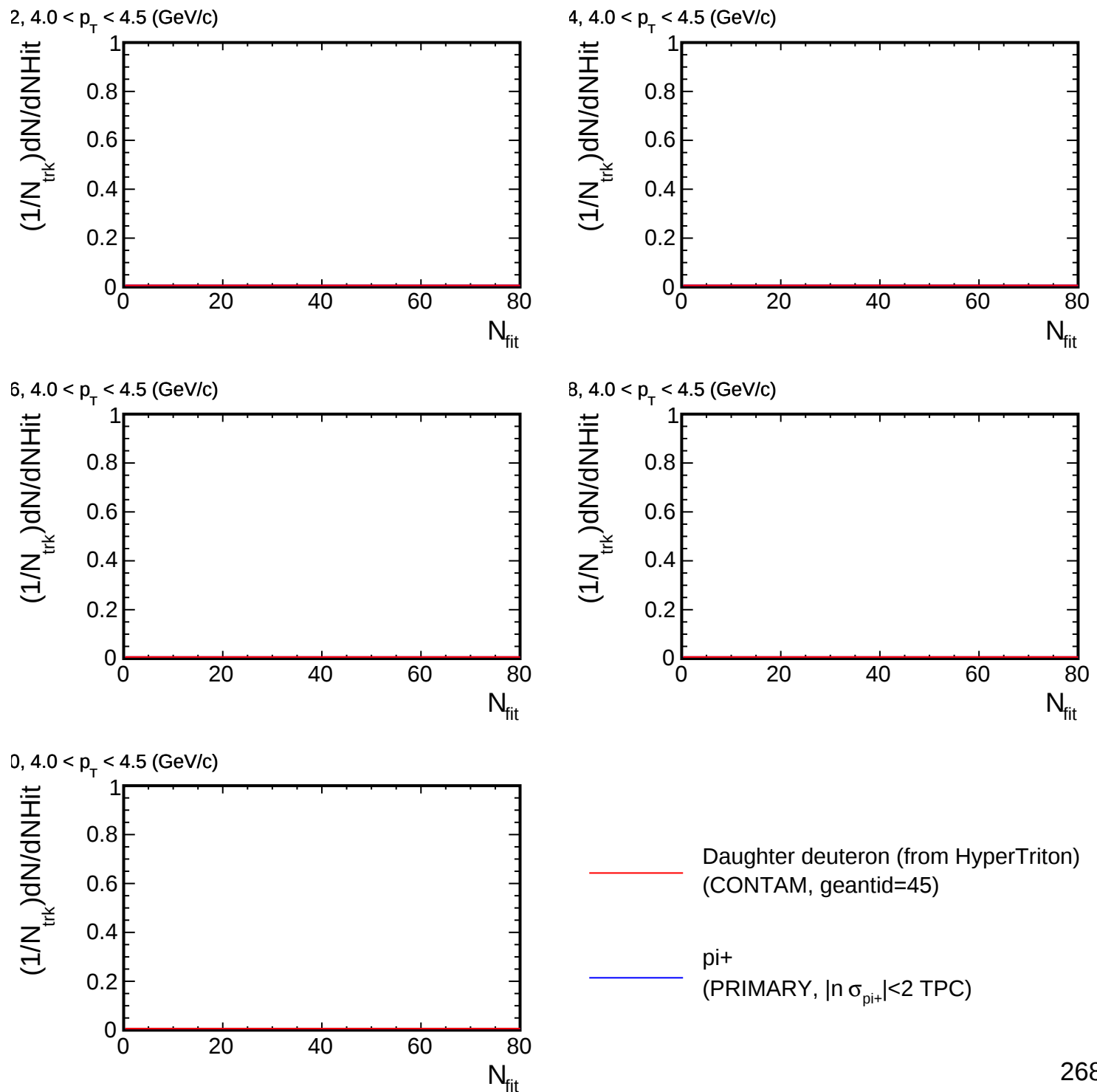
NHit distribution for (p_T , η) slices



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

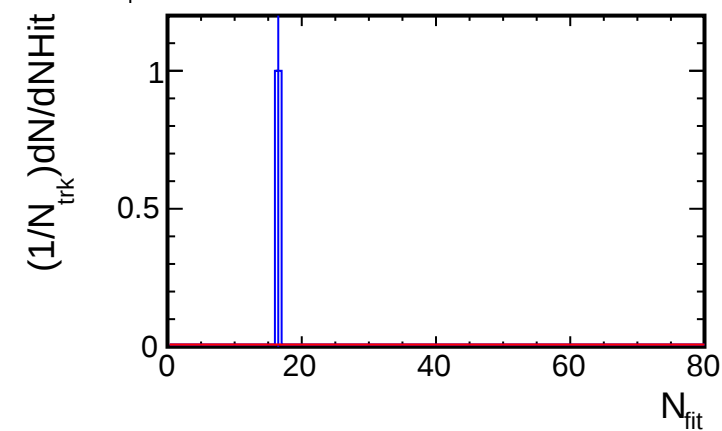
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

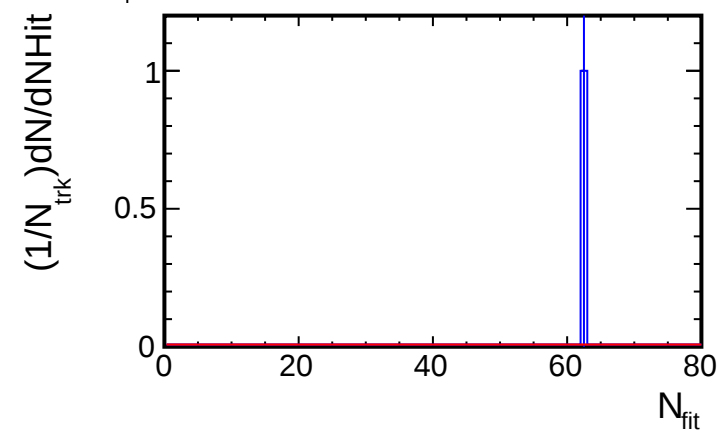


NHit distribution for (p_T , η) slices

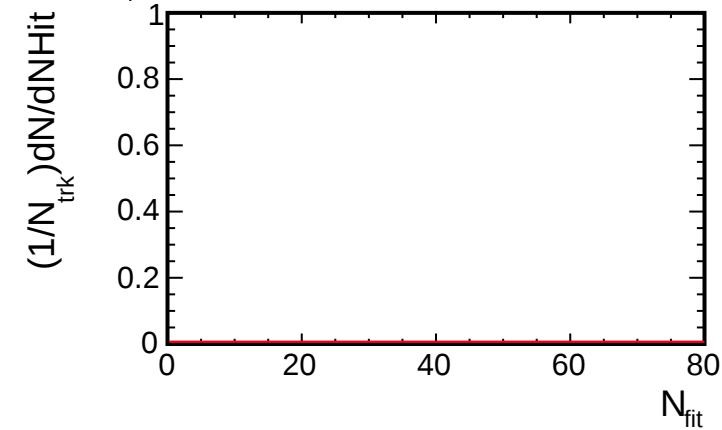
1.8, $4.5 < p_T < 5.0$ (GeV/c)



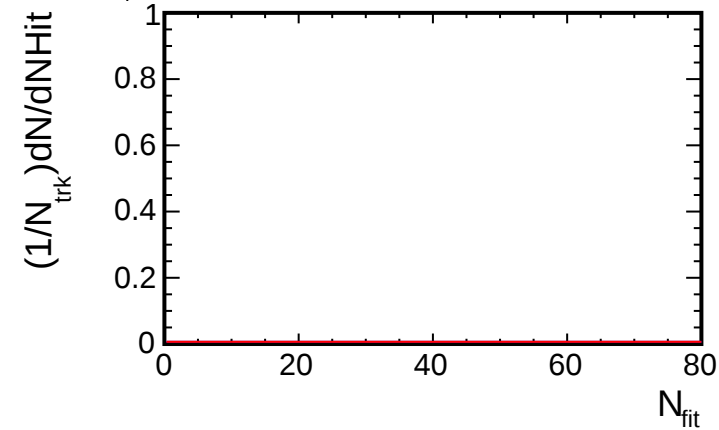
1.6, $4.5 < p_T < 5.0$ (GeV/c)



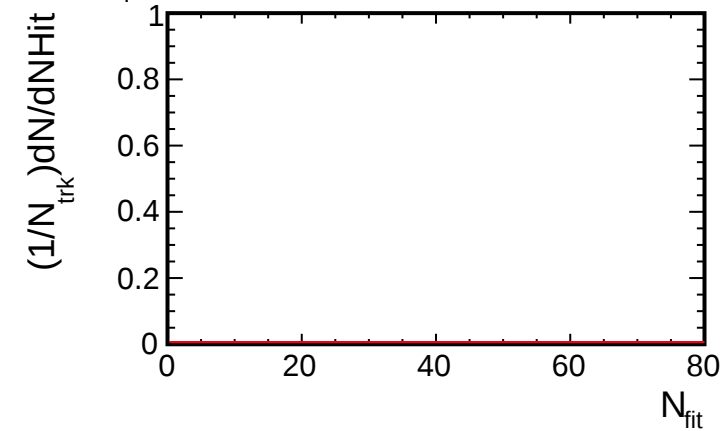
1.4, $4.5 < p_T < 5.0$ (GeV/c)



1.2, $4.5 < p_T < 5.0$ (GeV/c)



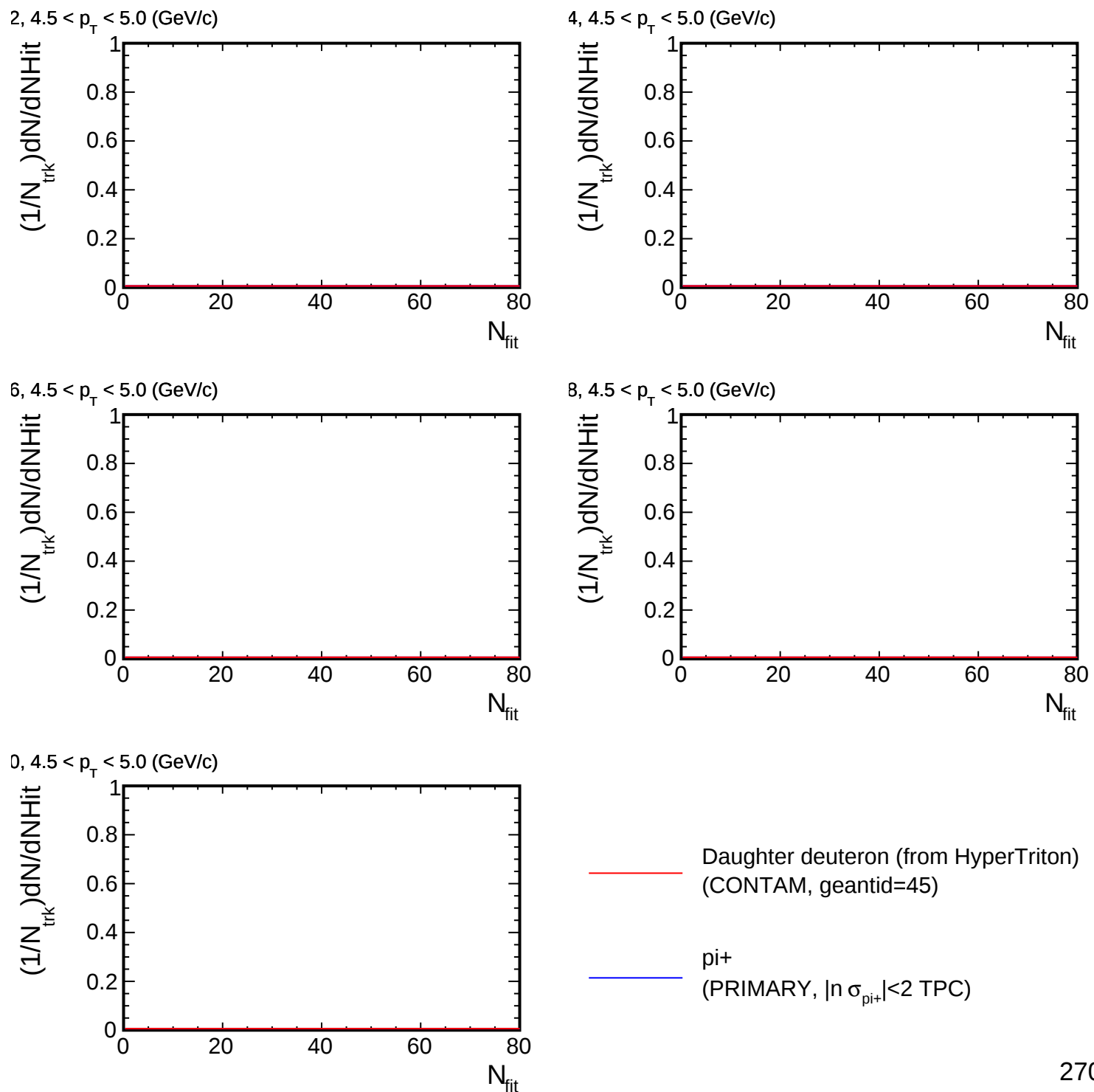
1.0, $4.5 < p_T < 5.0$ (GeV/c)



— Daughter deuteron (from HyperTriton)
(CONTAM, geantid=45)

— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices



End of QA