

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 = 740000, 740010

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

$|\eta| < 10.00$

$|y| < 2.50$

nHitsFit > 10

nHitsFit/nHitsPoss > 0.51

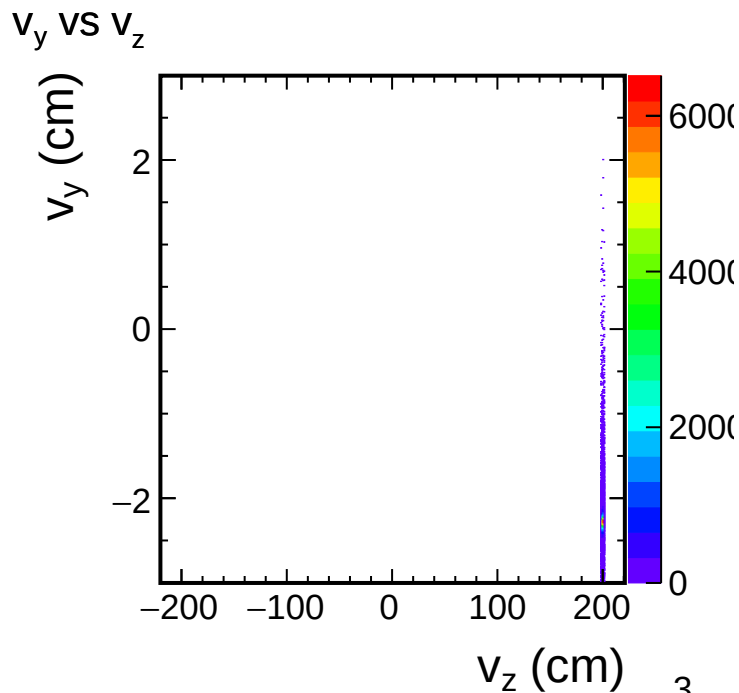
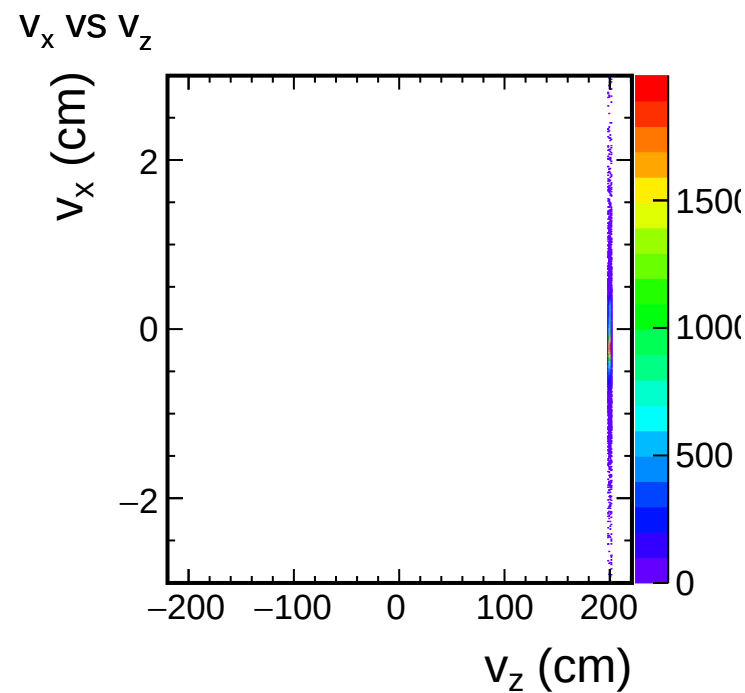
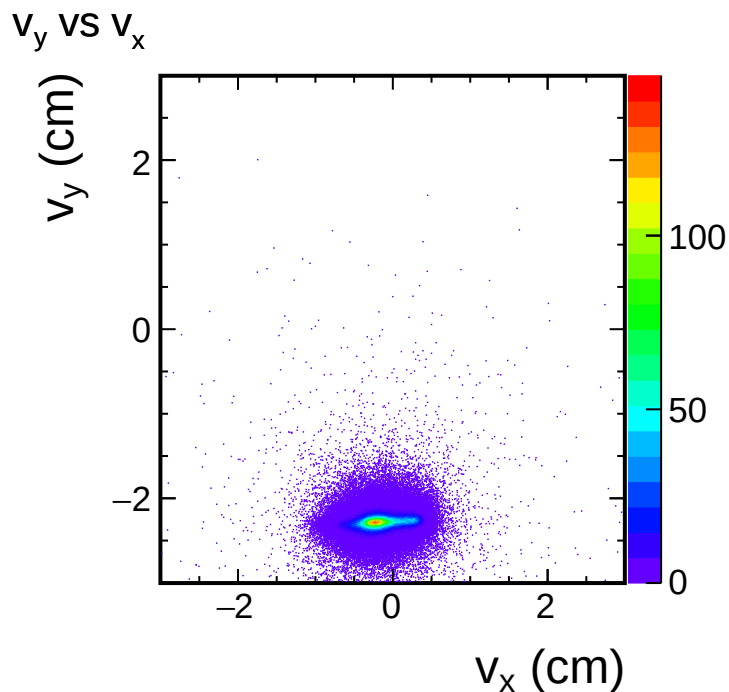
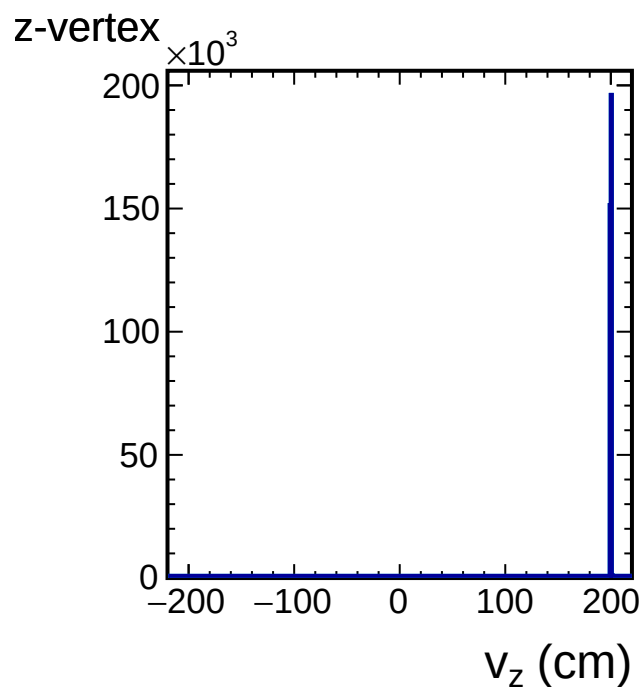
global Dca < 3.0 cm

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

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

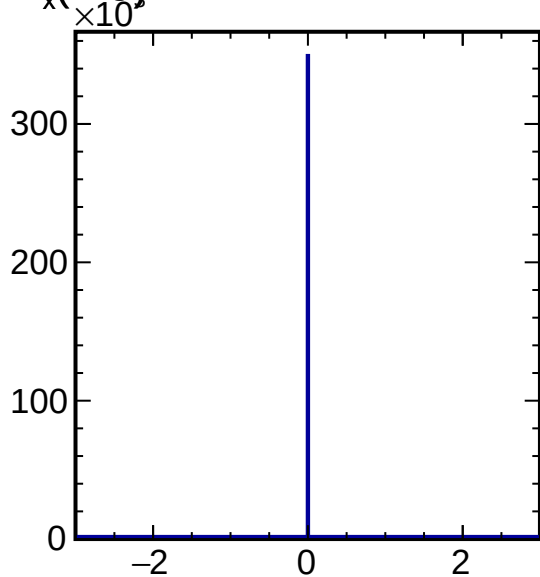
NOTE2: Cut on its own variable is currently disabled, e.x. no dca cut for dca histogram

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



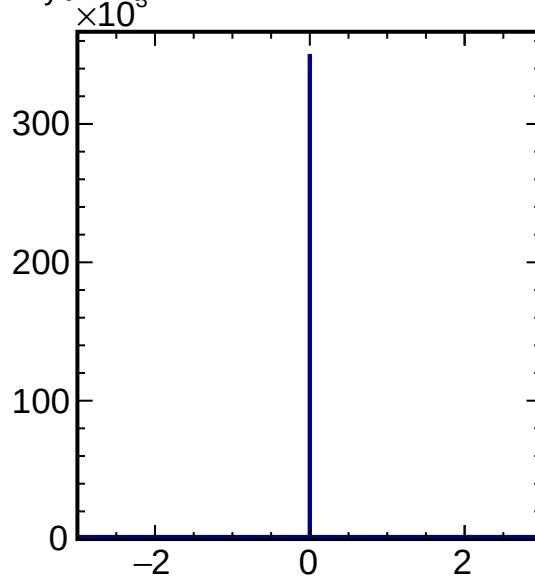
Event vertices, $\Delta v = v(\text{Data}) - v(\text{MC})$

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



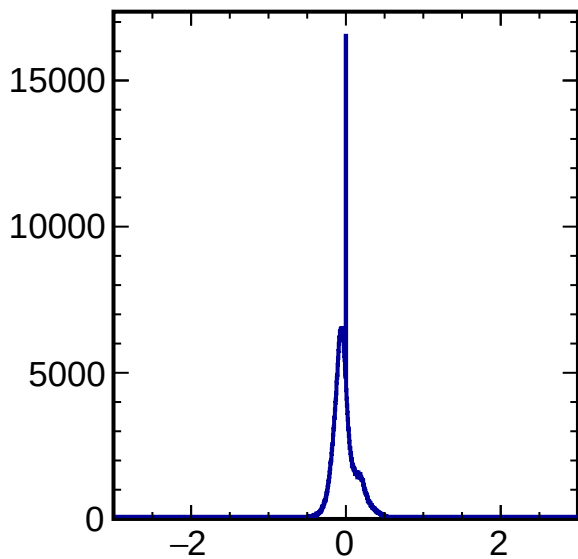
$$\Delta v_x = v_x - v_x(\text{MC}) \text{ (cm)}$$

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



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

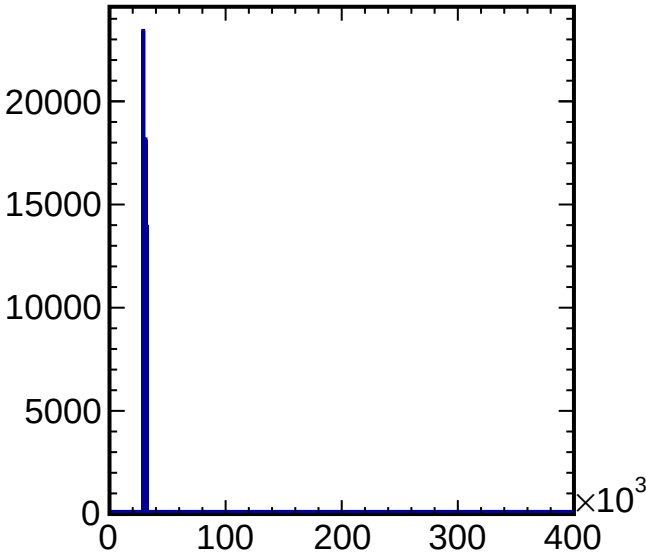
$$= v_z - v_z(\text{MC})$$



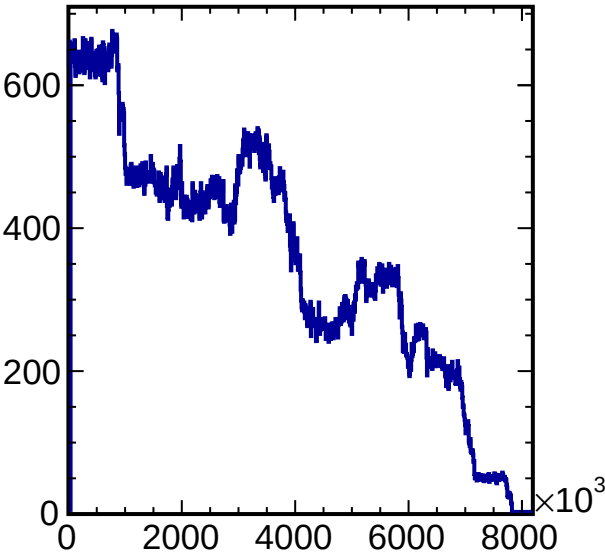
$$\Delta v_z = v_z - v_z(\text{MC}) \text{ (cm)}$$

Run and event id

(Year - 1999)×10⁶



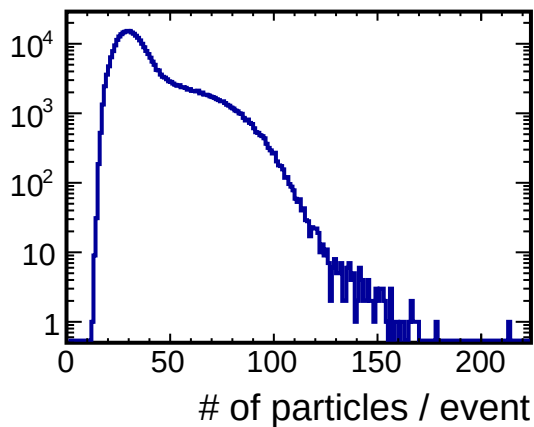
Event id



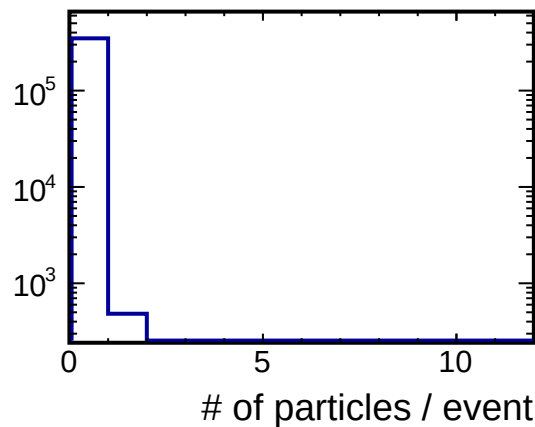
Run id	statistics	Run id	statistics	Run id	statistics	Run id	statistics
21029051	9000 events	21030004	16552 events	21031006	7809 events	21031029	5165 events
21029052	4527 events	21030006	18131 events	21031008	18152 events	21031030	13452 events
21029053	1501 events	21030008	9180 events	21031009	11986 events	21031031	12537 events
21029054	12045 events	21030009	16457 events	21031010	5736 events	21032006	13923 events
21029055	10467 events	21030011	13448 events	21031012	15427 events	21032008	5034 events
21029057	23412 events	21031002	6221 events	21031014	13379 events	21032010	9039 events
21030001	11915 events	21031003	1377 events	21031015	10467 events	21032013	11284 events
21030002	2993 events	21031004	4143 events	21031016	9147 events	21032014	11354 events
						21032015	13914 events

Multiplicity distribution

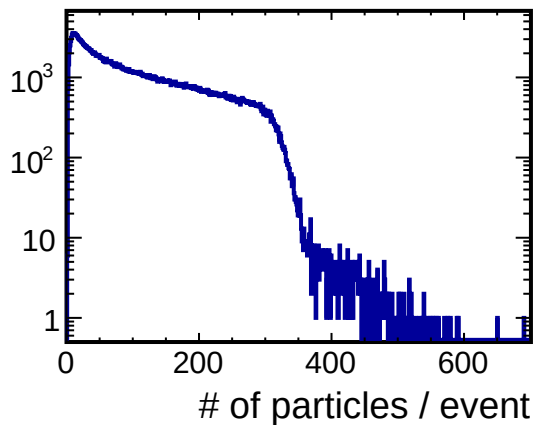
MC tracks



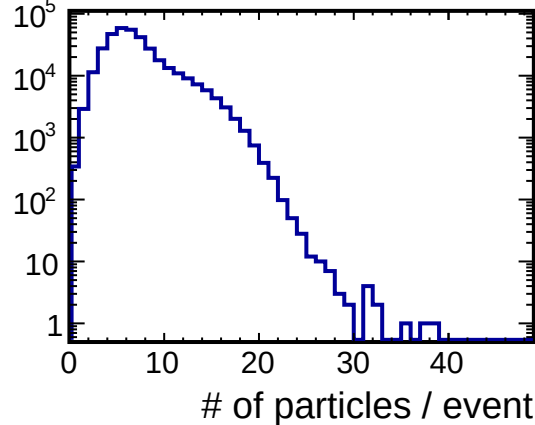
matched pairs



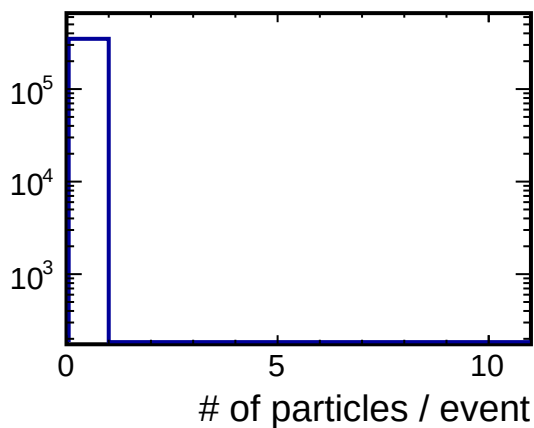
Ghost pairs



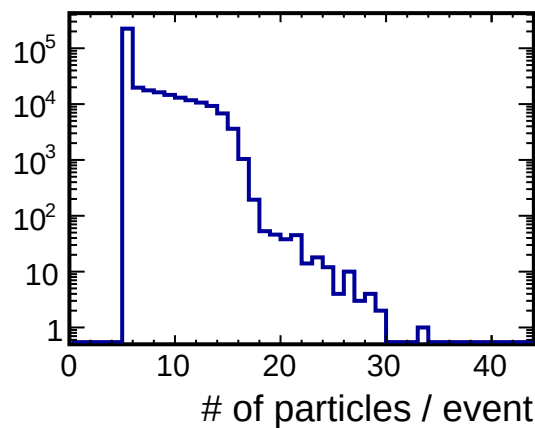
staminated pairs



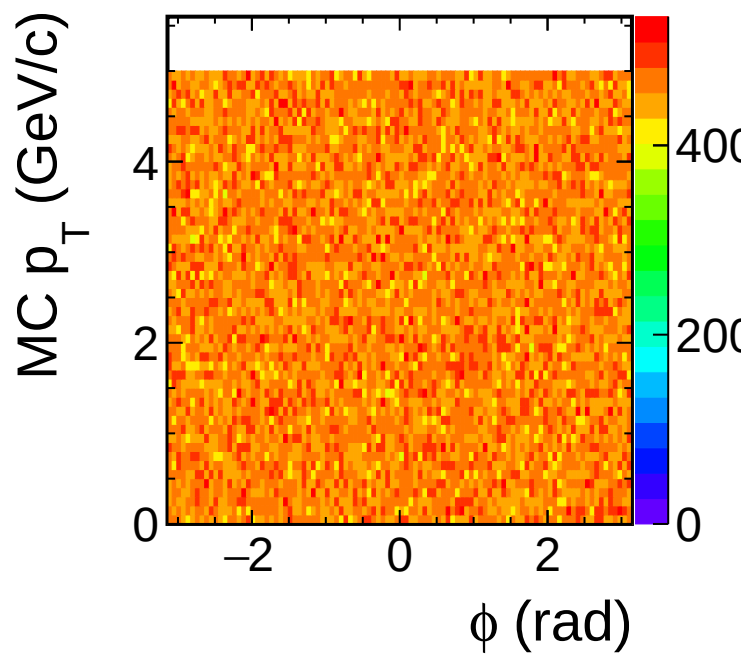
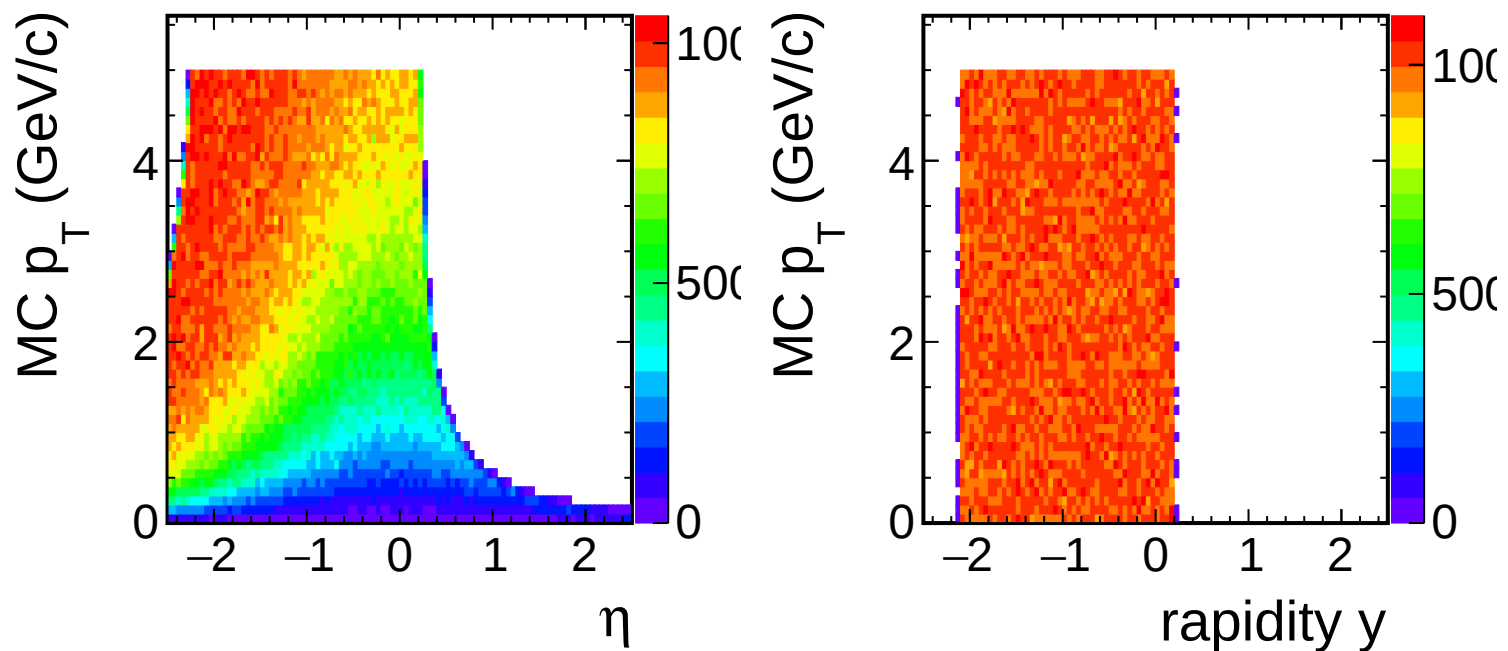
ched global pairs



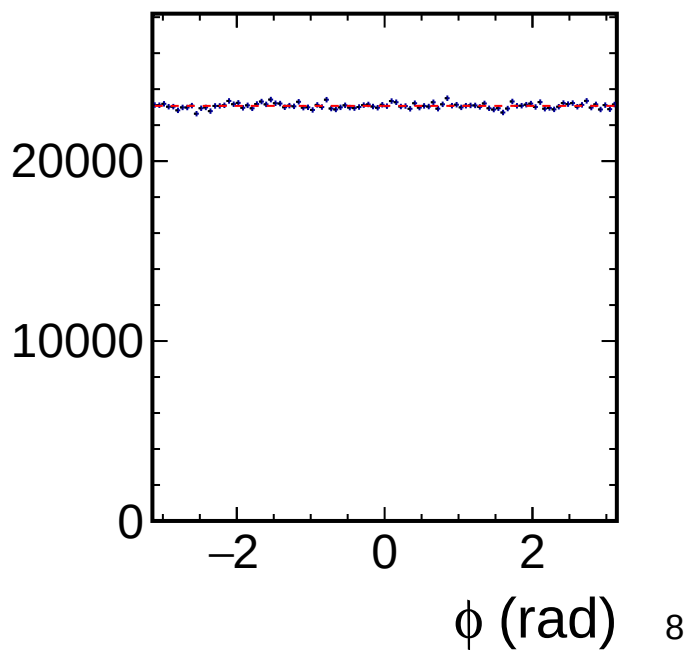
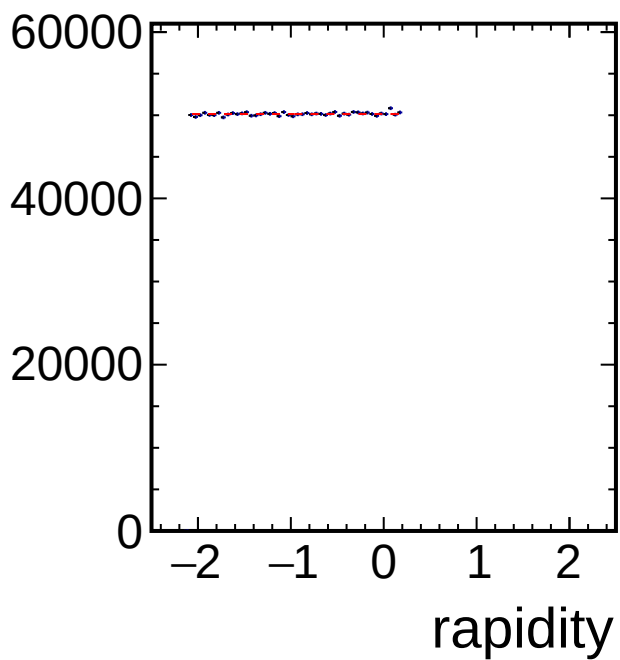
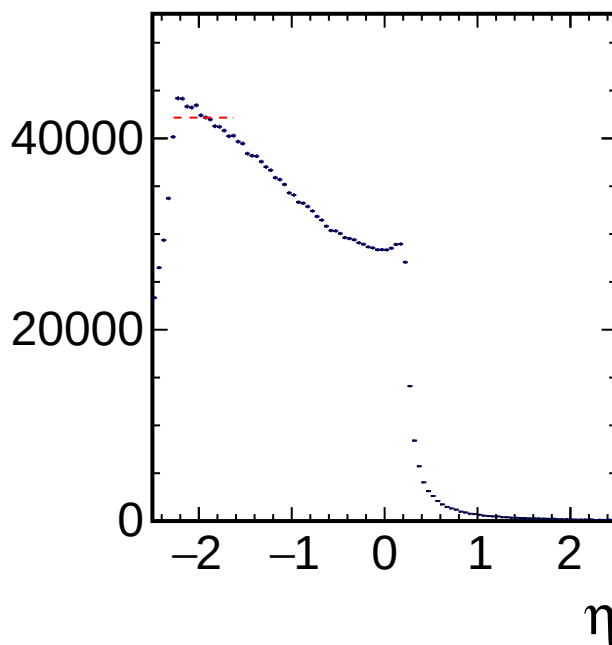
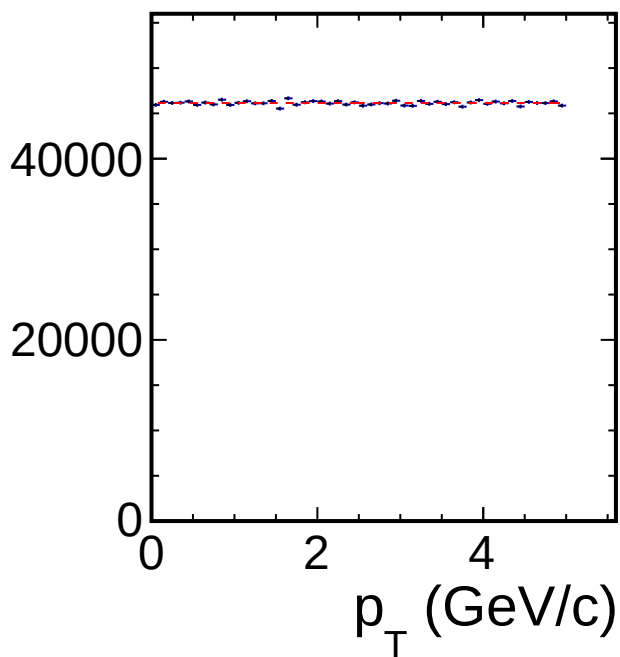
nary MC tracks



MC track QA (2D)

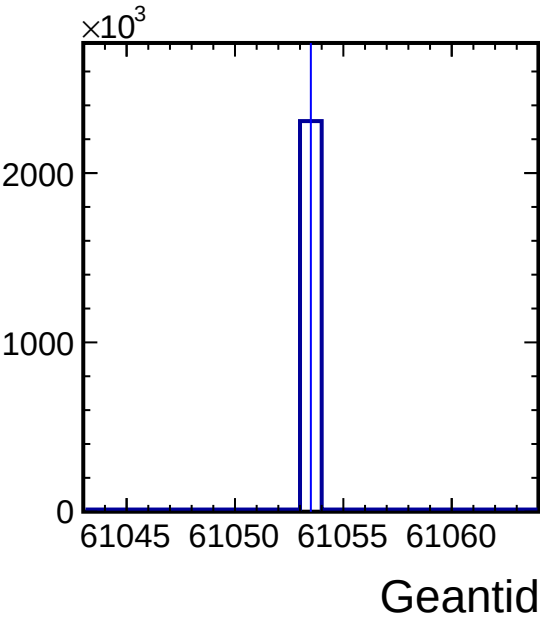


MC track QA (1D)

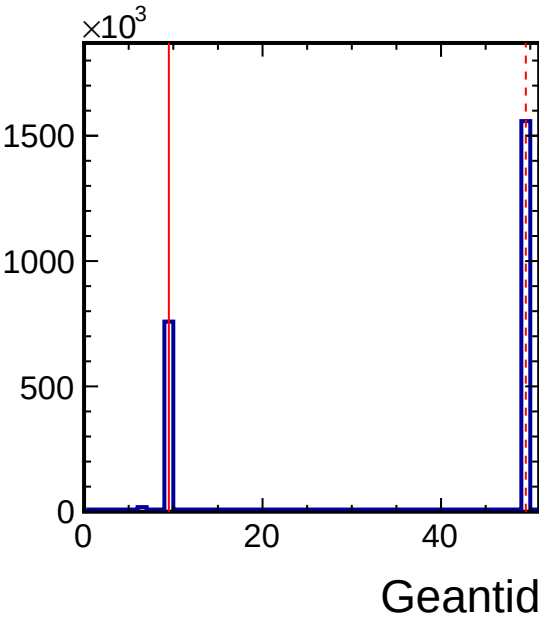


Geant id

it id for HyperTriton



tructed geant id

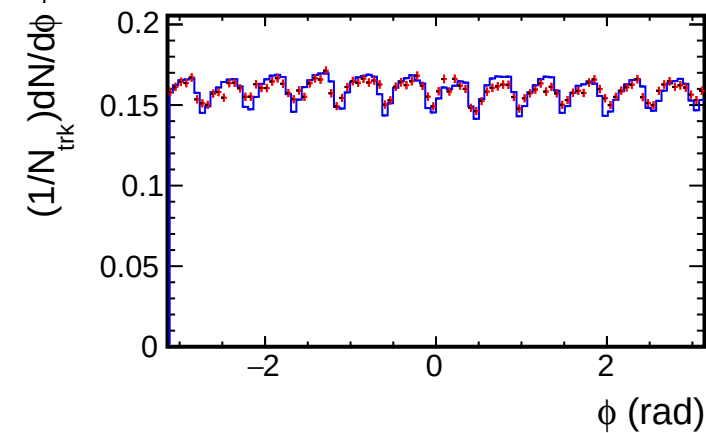


Particle informations

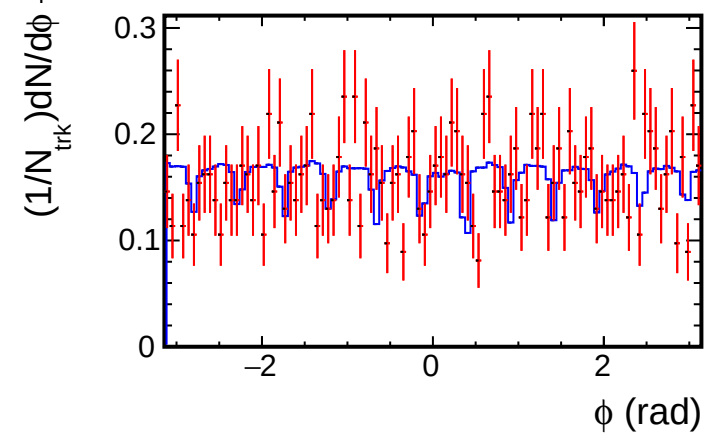
- Parent HyperTriton (MC, geantid=61053)
- Daughter pi- (from HyperTriton) (CONTAM, geantid=9)
- - - Daughter He3 (from HyperTriton) (CONTAM, geantid=49)

Projection of ϕ for each p_T bin

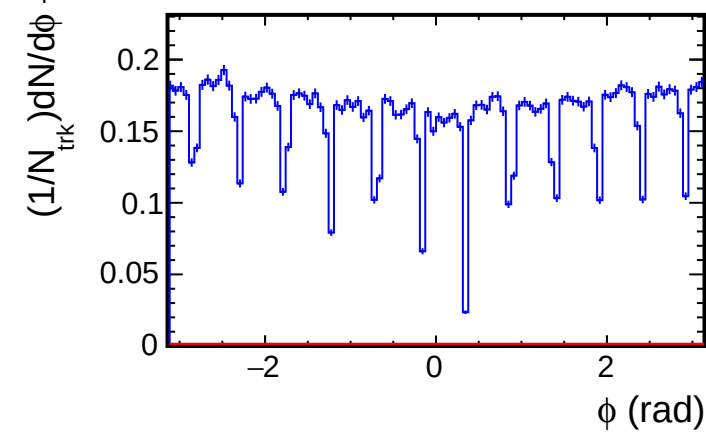
$p_T < 0.5$ (GeV/c)



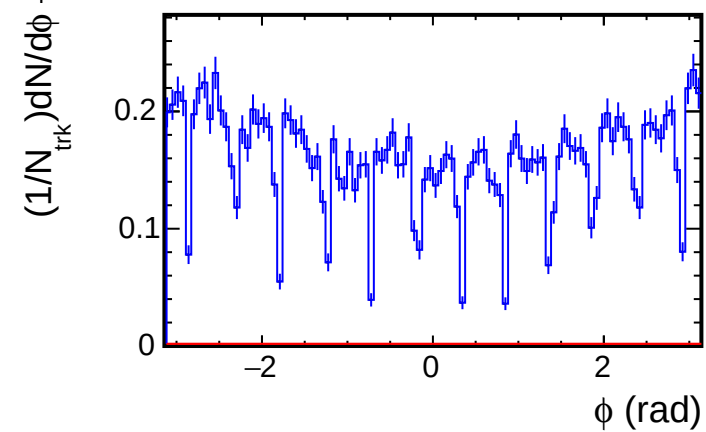
$p_T < 1.0$ (GeV/c)



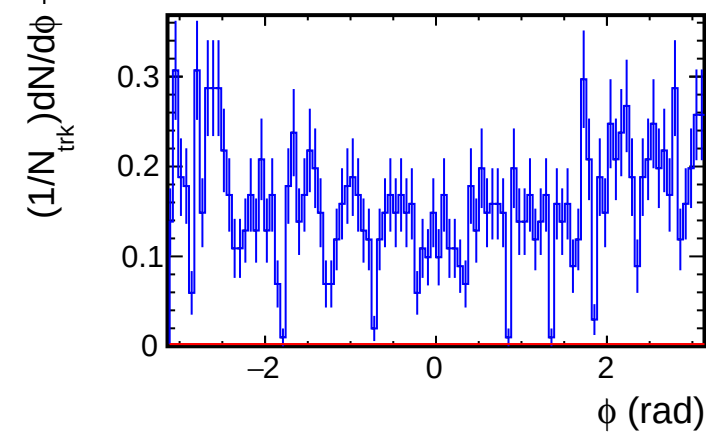
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

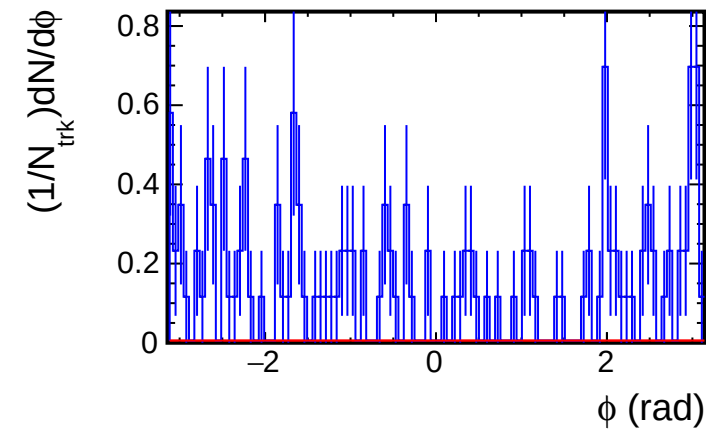


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

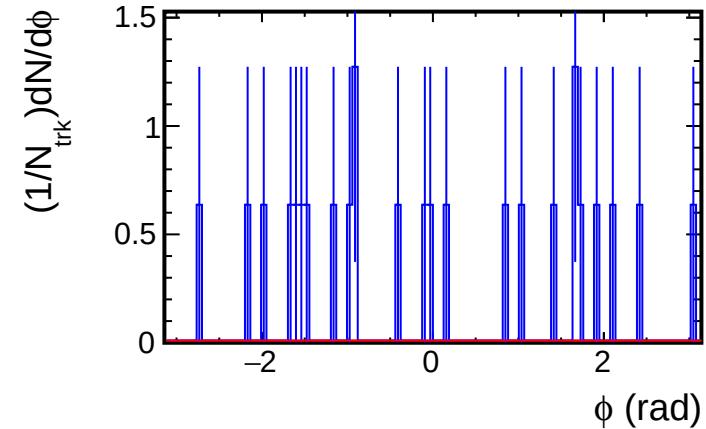
— pi-
(PRIMARY, $|\ln \sigma_{\text{pi-}}| < 2$ TPC)

Projection of ϕ for each p_T bin

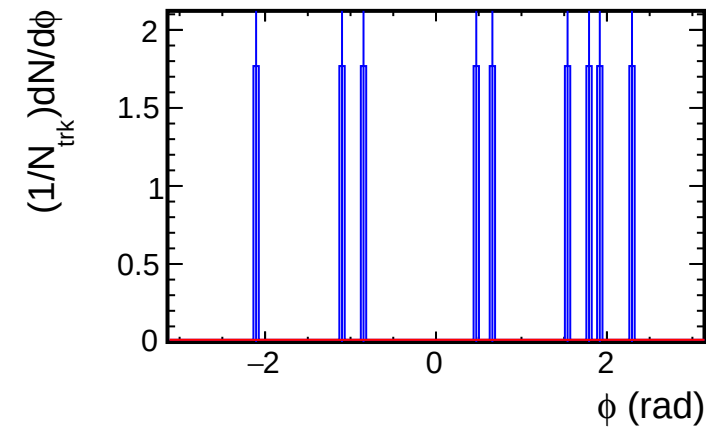
$p_T < 3.0$ (GeV/c)



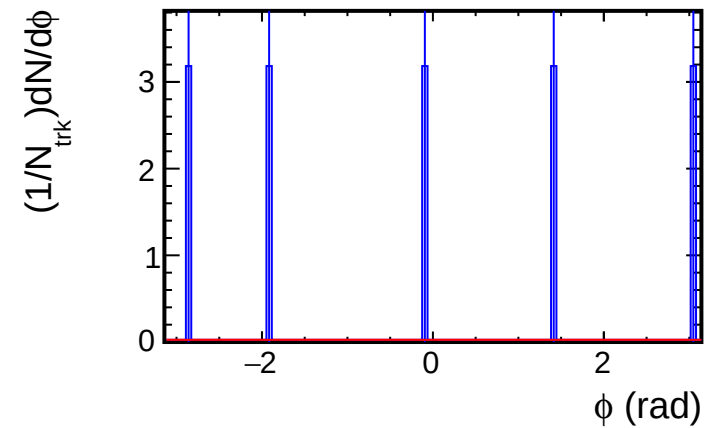
$p_T < 3.5$ (GeV/c)



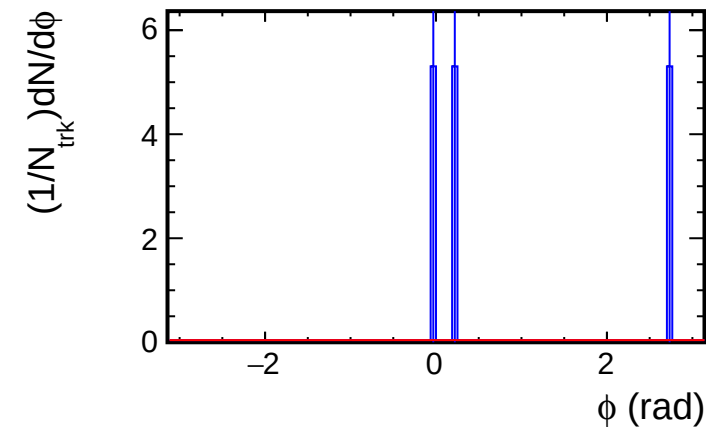
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

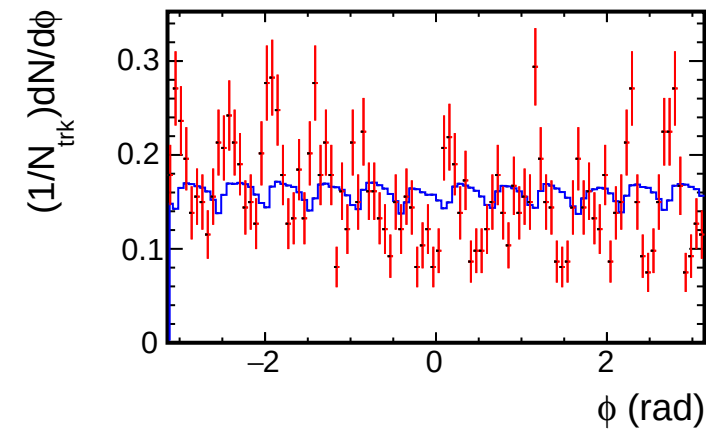


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

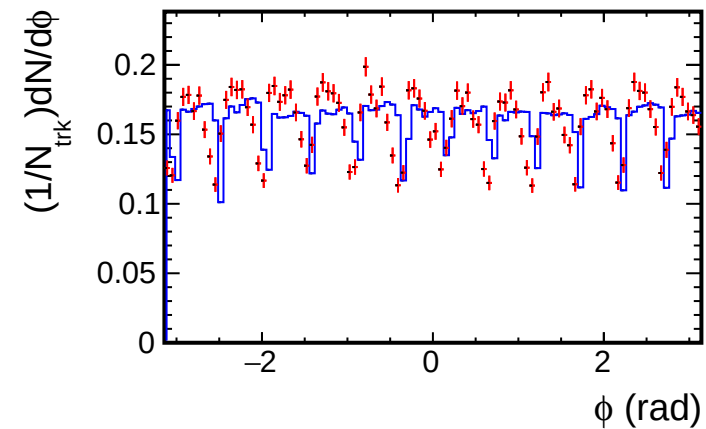
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

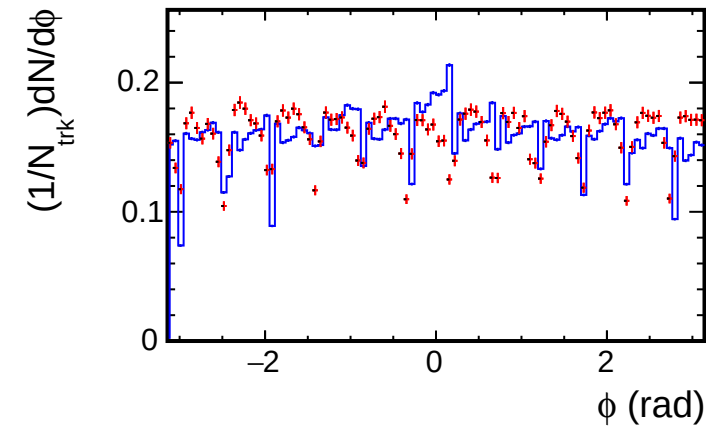
$p_T < 0.5$ (GeV/c)



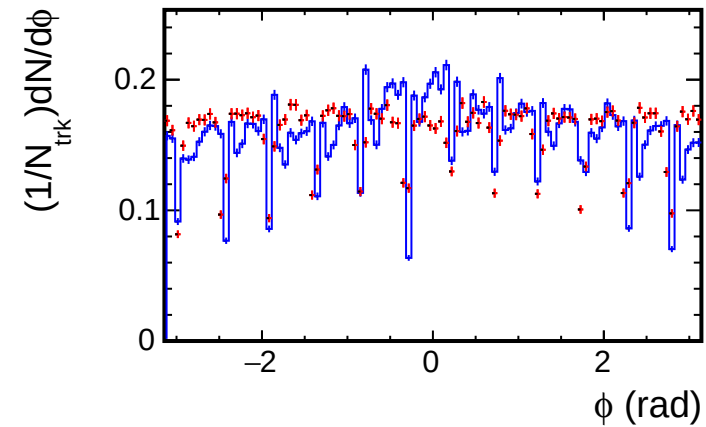
$p_T < 1.0$ (GeV/c)



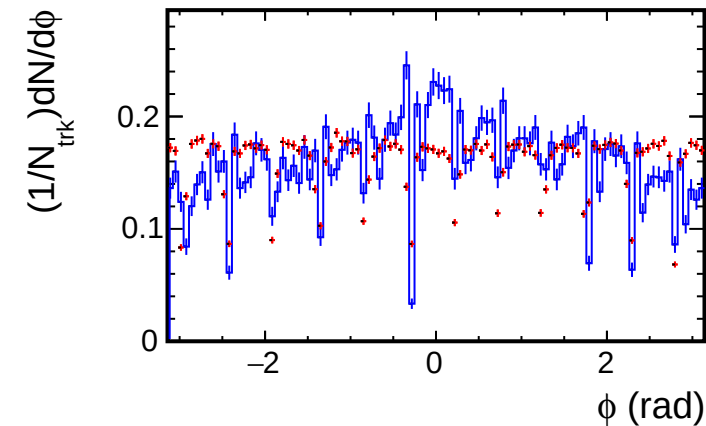
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

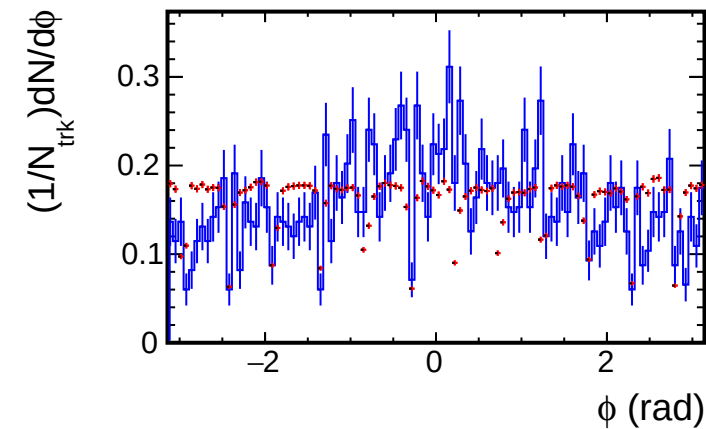


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

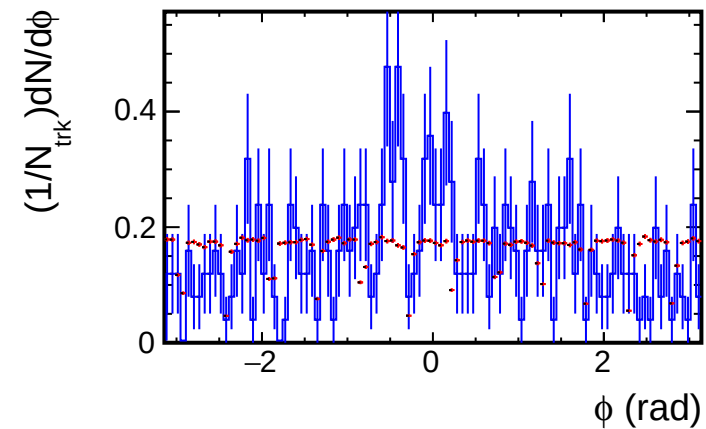
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Projection of ϕ for each p_T bin

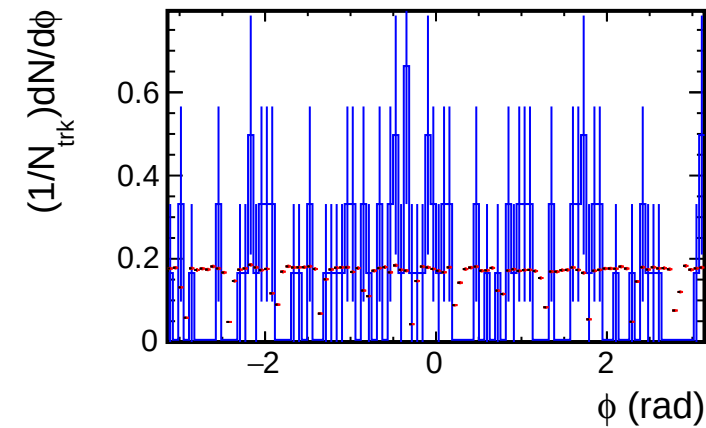
$p_T < 3.0$ (GeV/c)



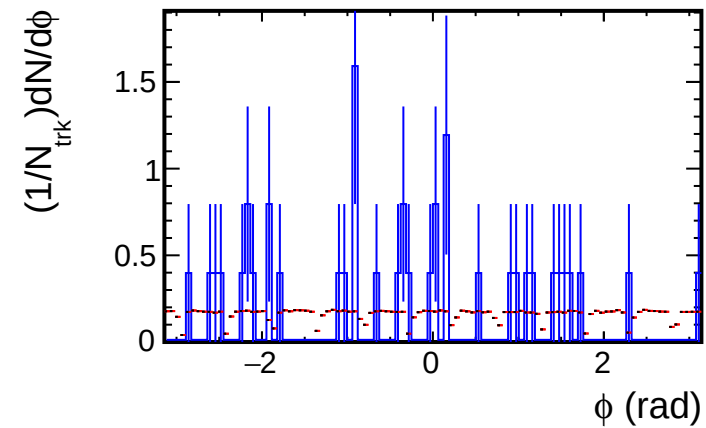
$p_T < 3.5$ (GeV/c)



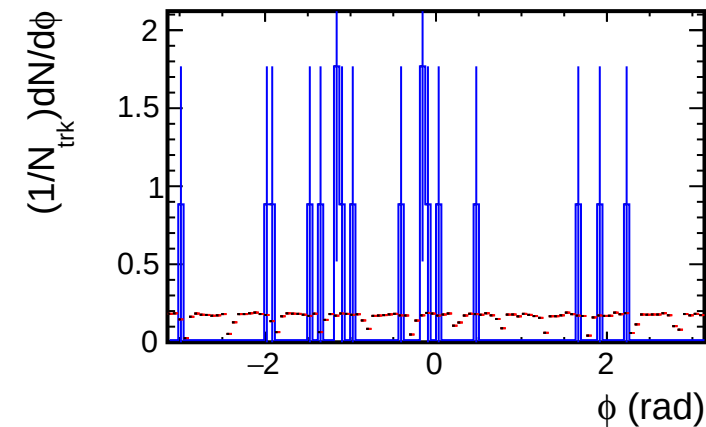
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

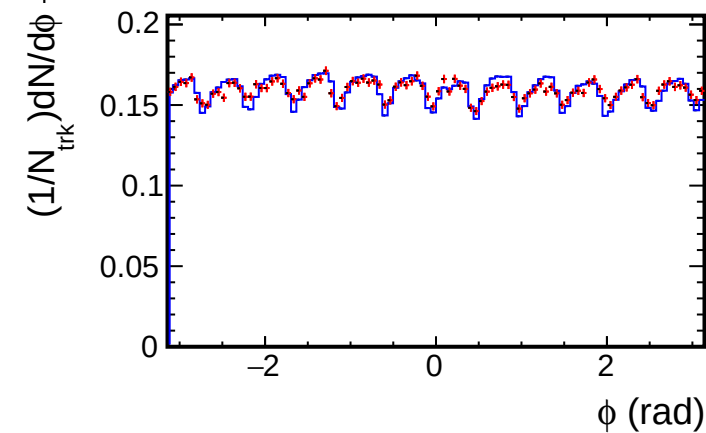


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

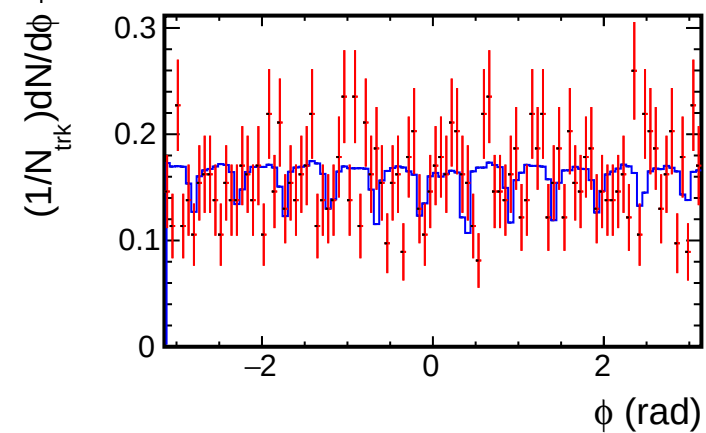
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

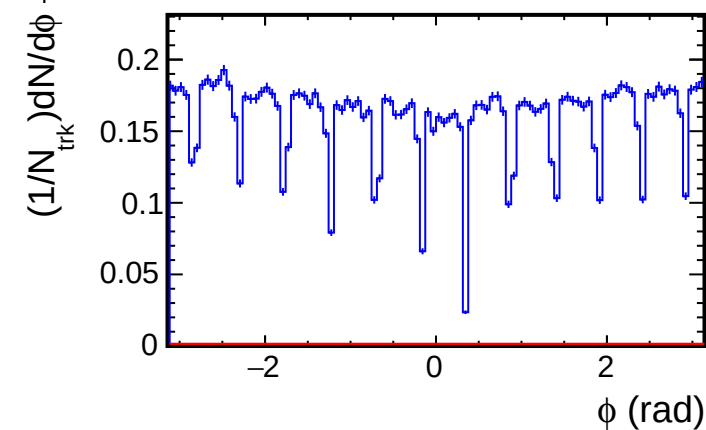
$p_T < 0.5$ (GeV/c)



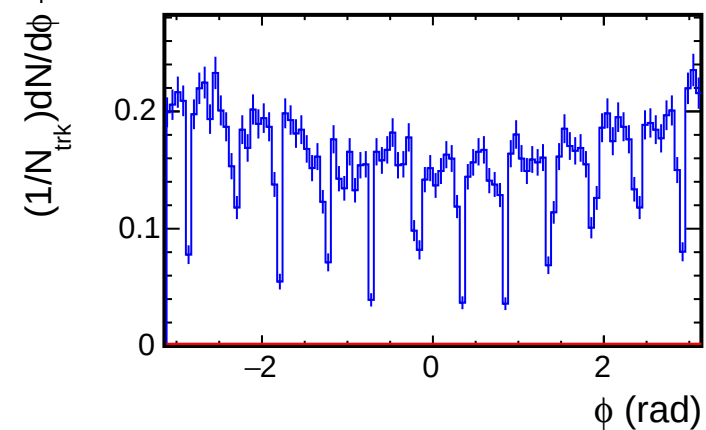
$p_T < 1.0$ (GeV/c)



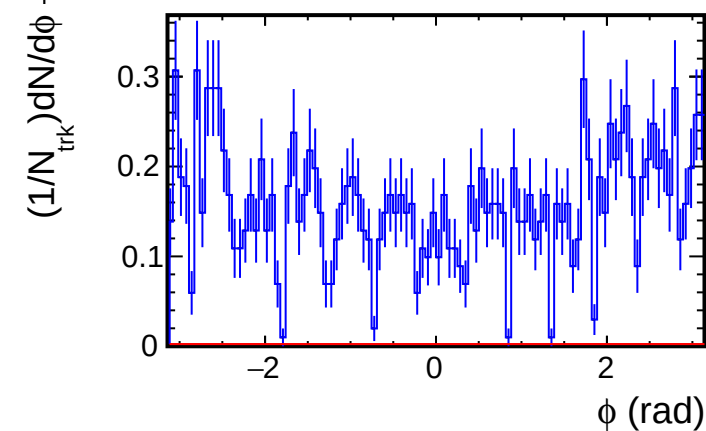
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

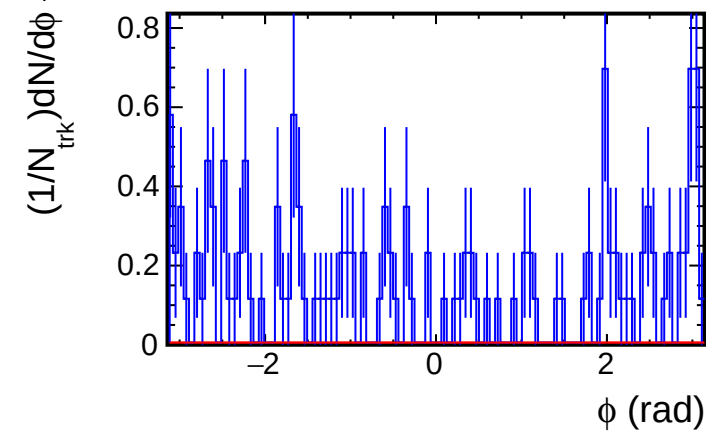


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

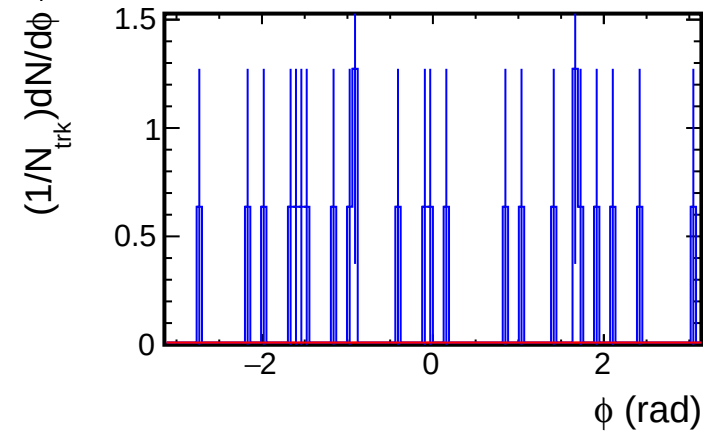
— pi-
(PRIMARY, $|\ln \sigma_{\text{pi-}}| < 2$ TPC)

Projection of ϕ for each p_T bin

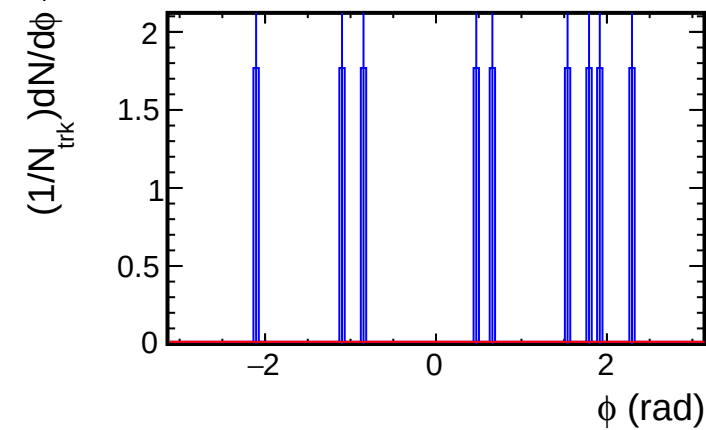
$p_T < 3.0$ (GeV/c)



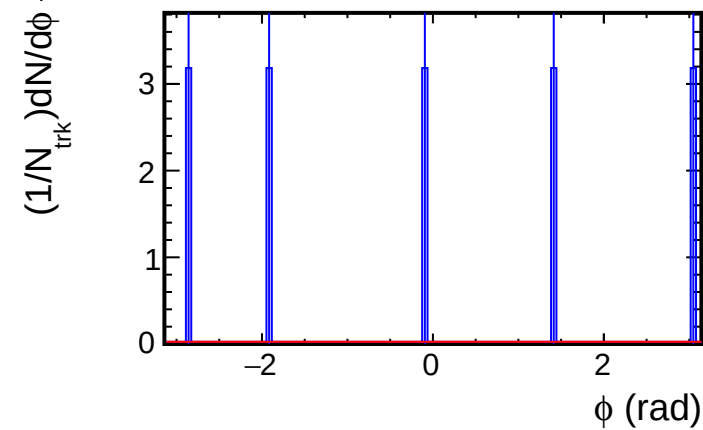
$p_T < 3.5$ (GeV/c)



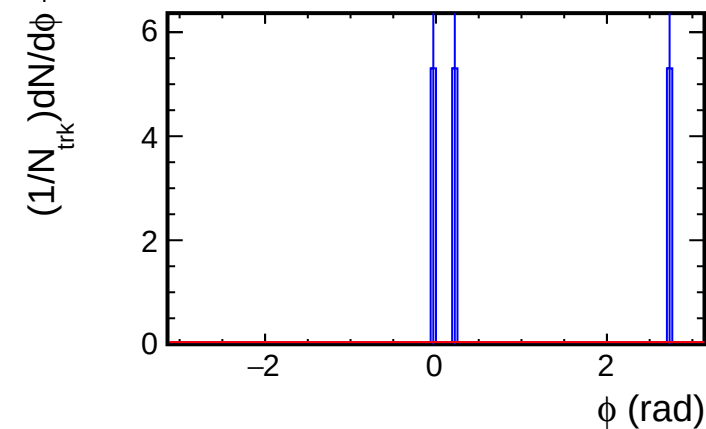
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

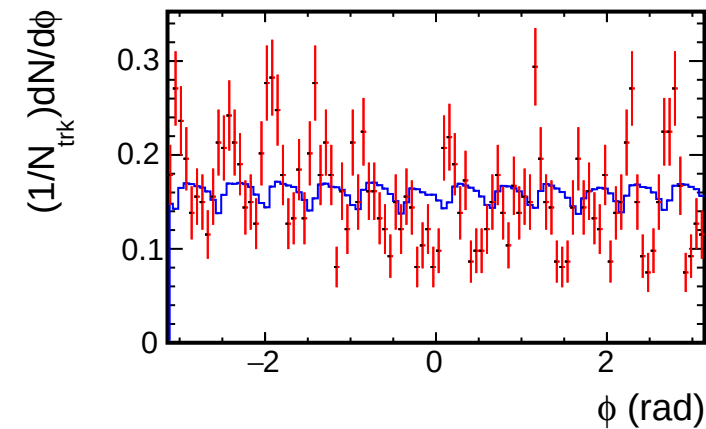


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

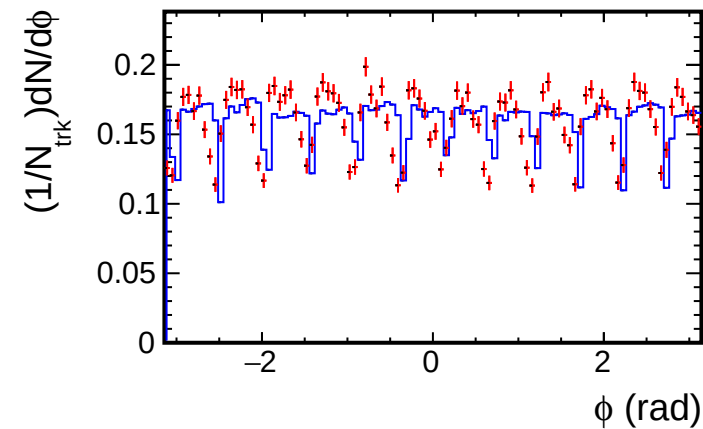
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

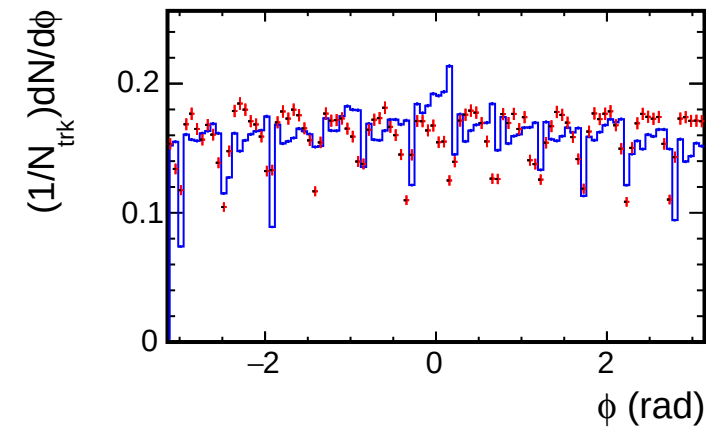
$p_T < 0.5$ (GeV/c)



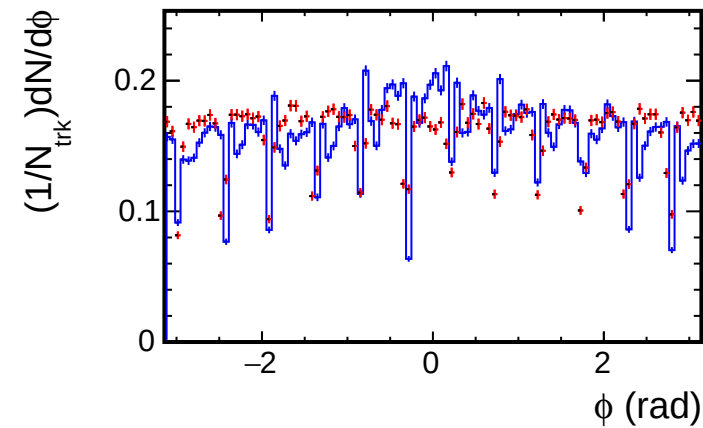
$p_T < 1.0$ (GeV/c)



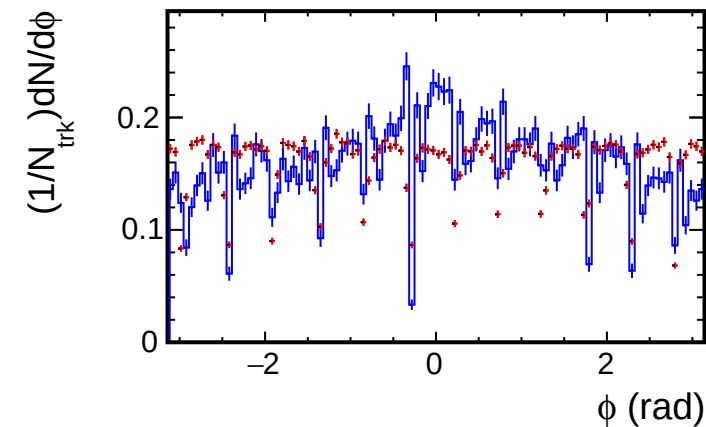
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

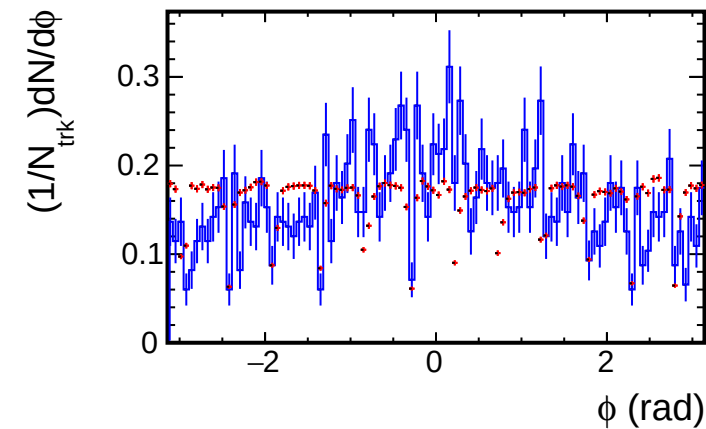


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

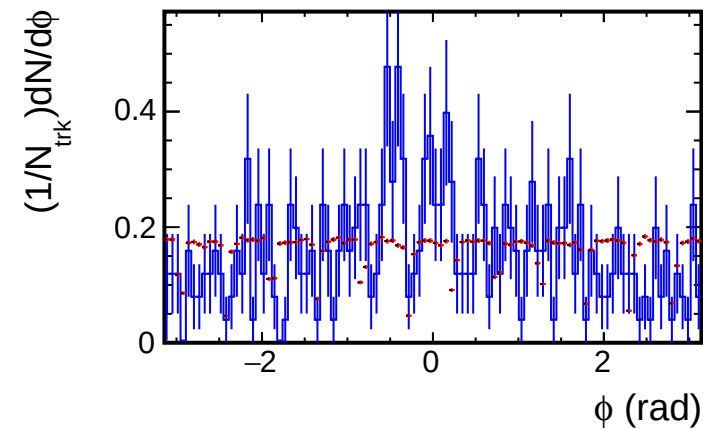
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

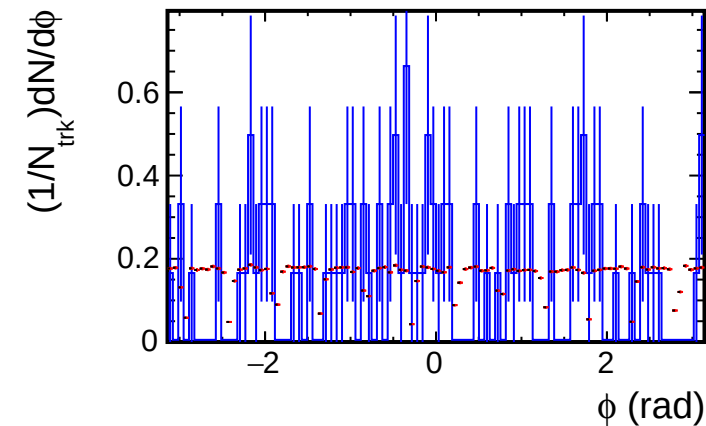
$p_T < 3.0$ (GeV/c)



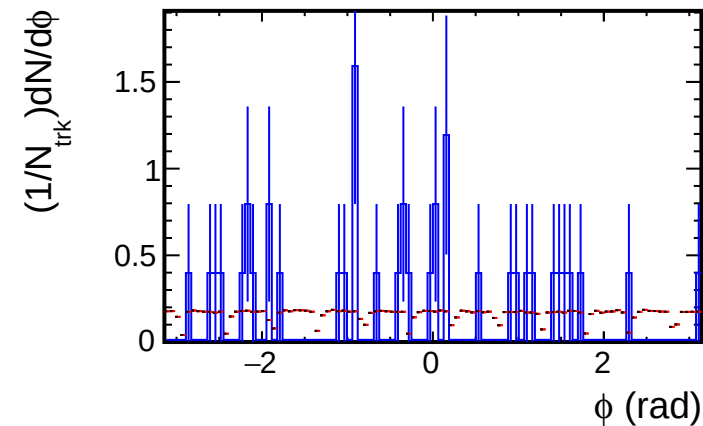
$p_T < 3.5$ (GeV/c)



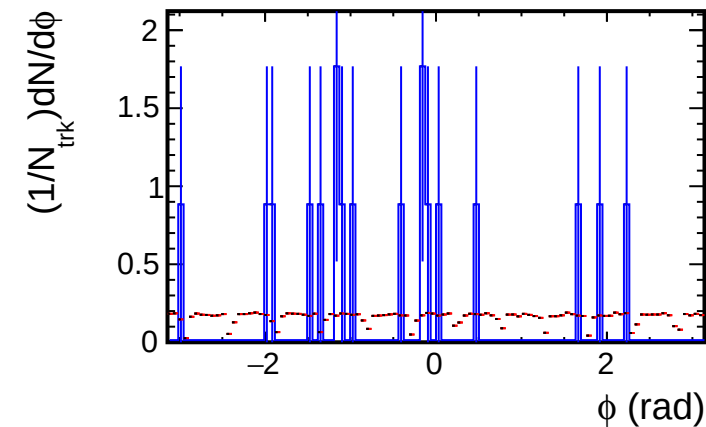
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

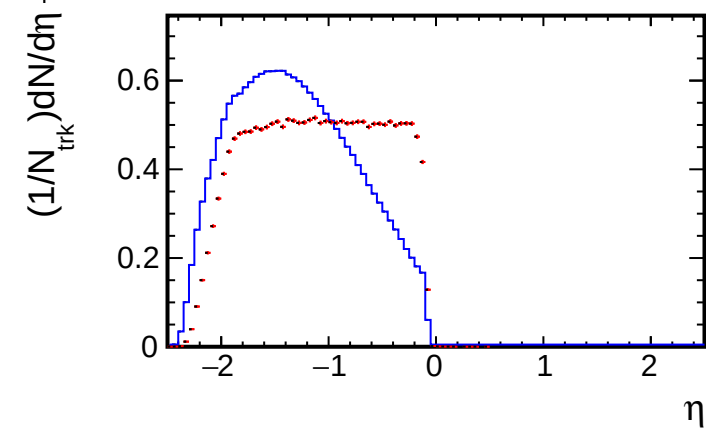


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

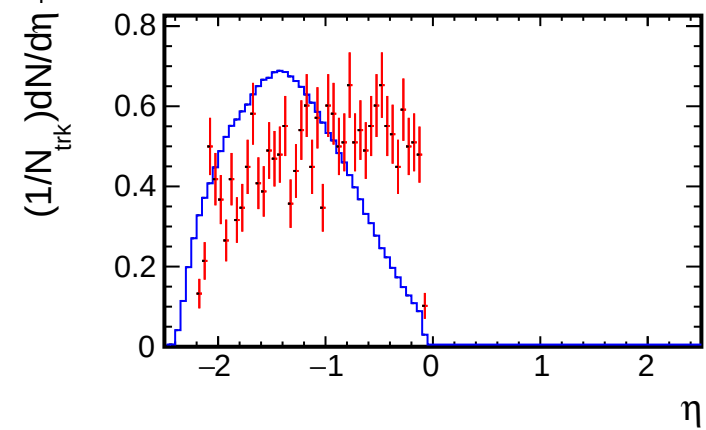
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of η for each p_T bin

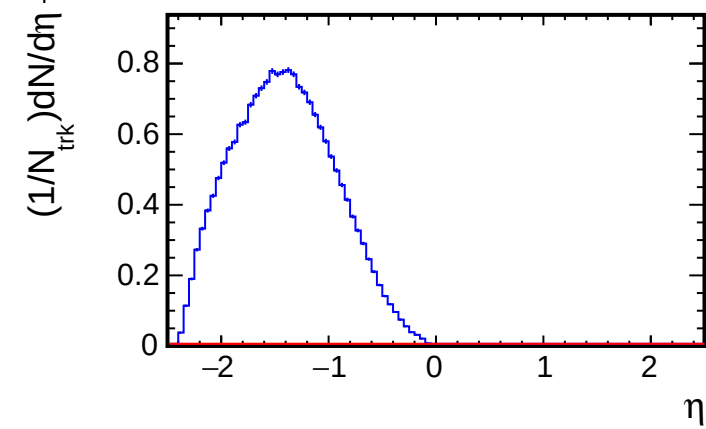
$p_T < 0.5$ (GeV/c)



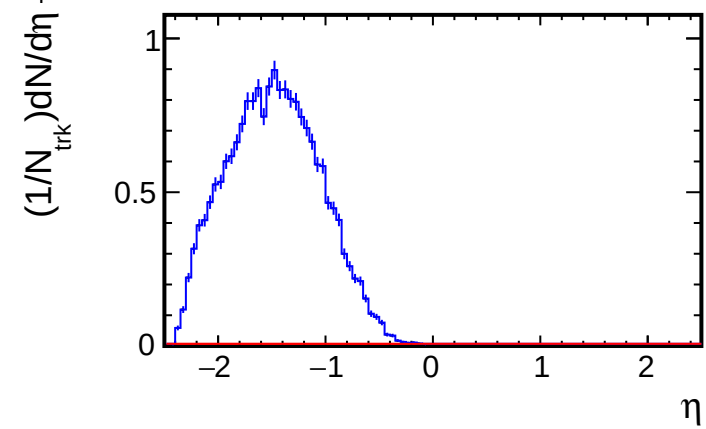
$p_T < 1.0$ (GeV/c)



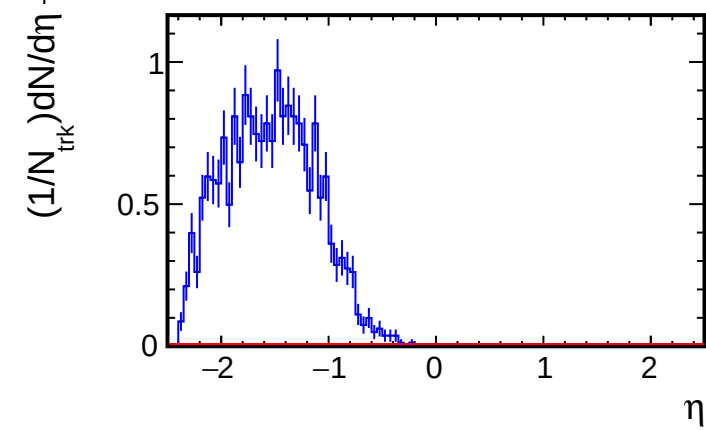
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

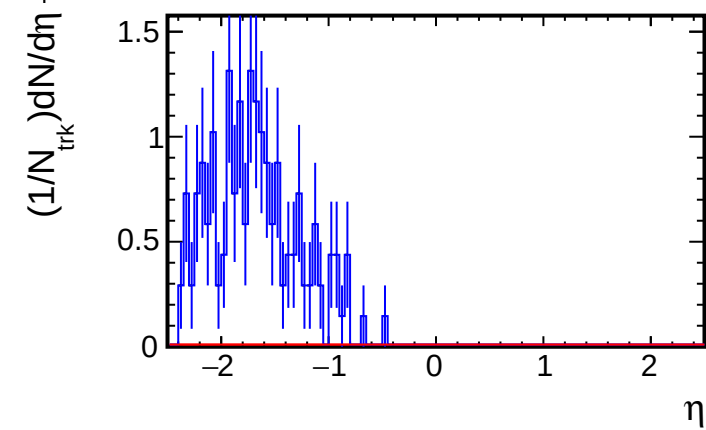


— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

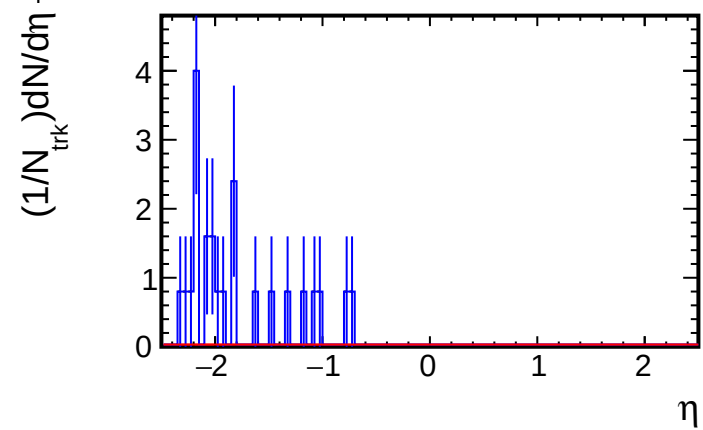
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

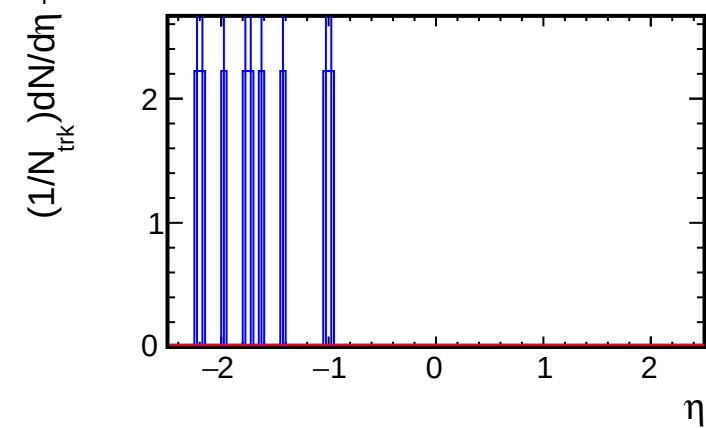
$p_T < 3.0$ (GeV/c)



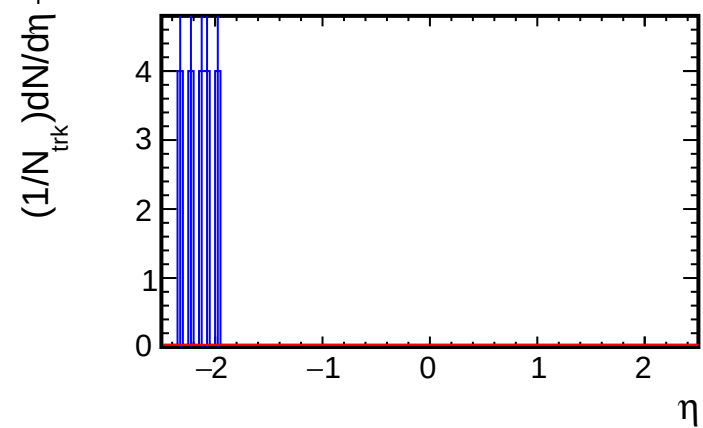
$p_T < 3.5$ (GeV/c)



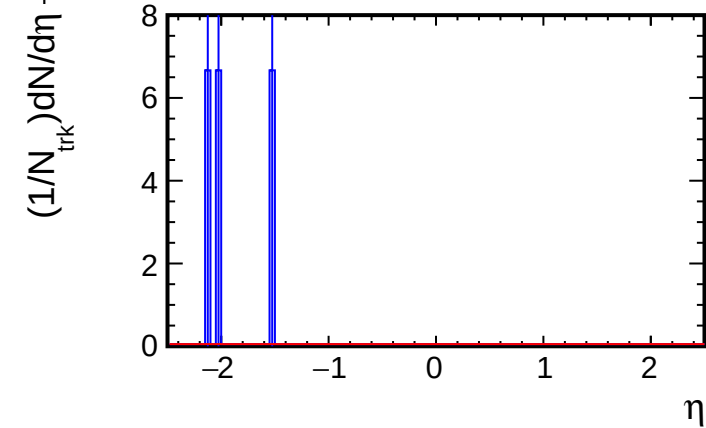
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

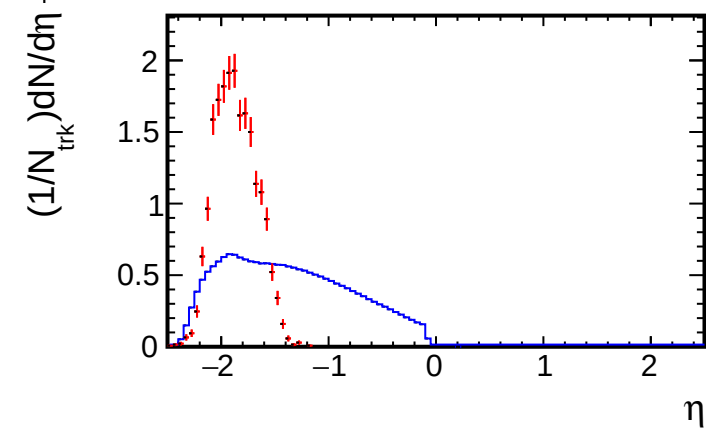


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

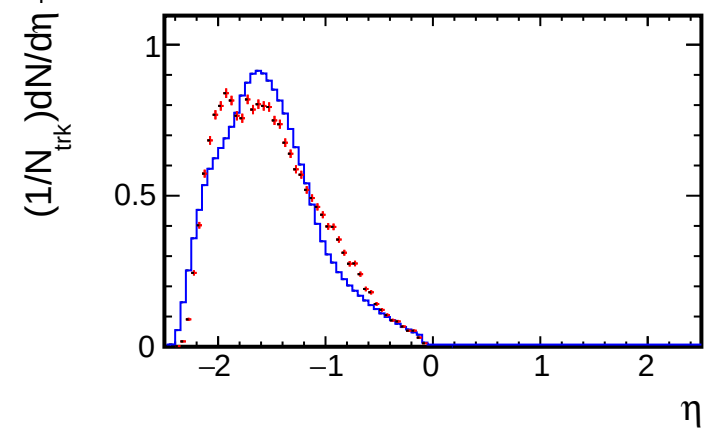
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

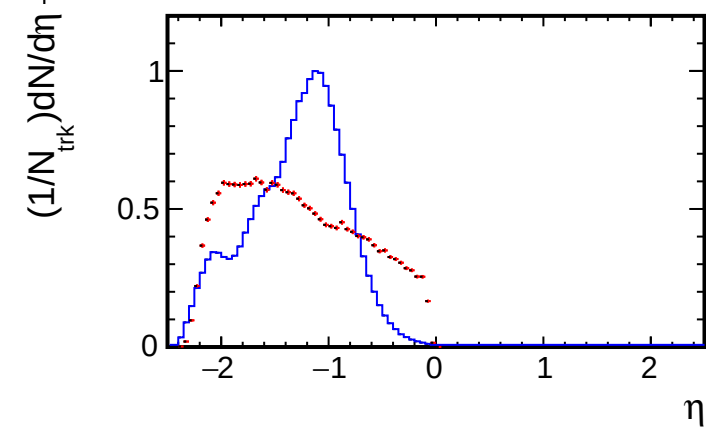
$p_T < 0.5$ (GeV/c)



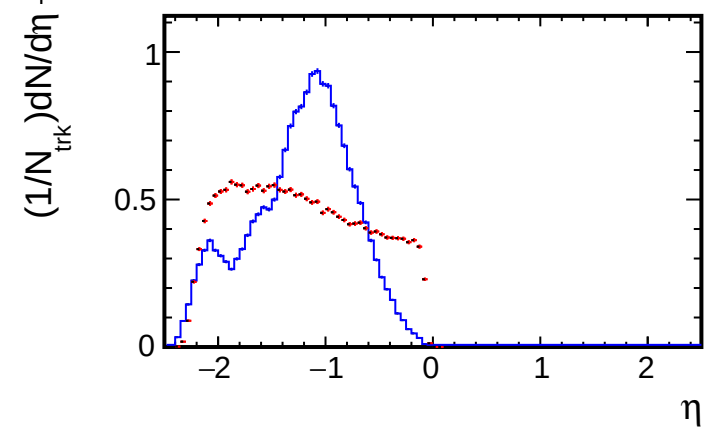
$p_T < 1.0$ (GeV/c)



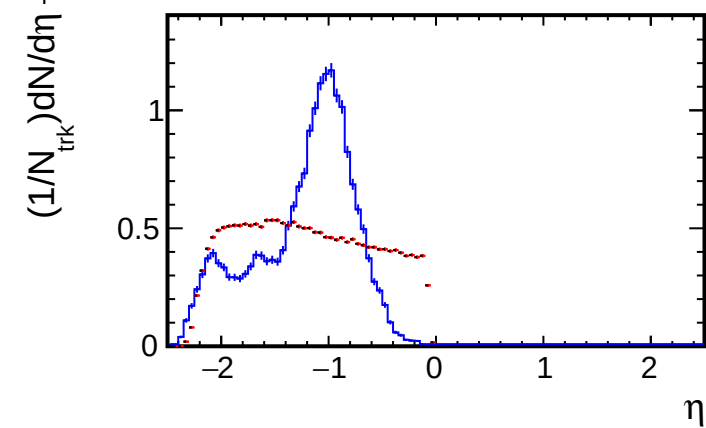
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

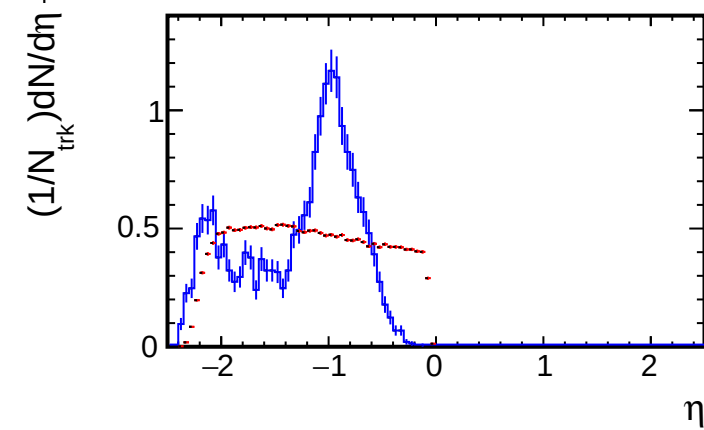


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

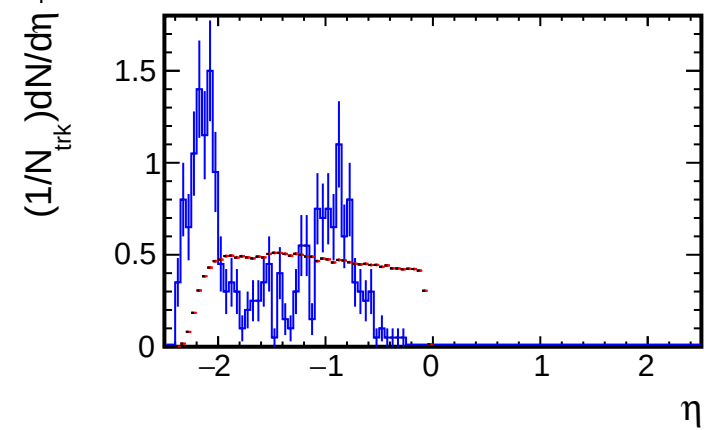
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of η for each p_T bin

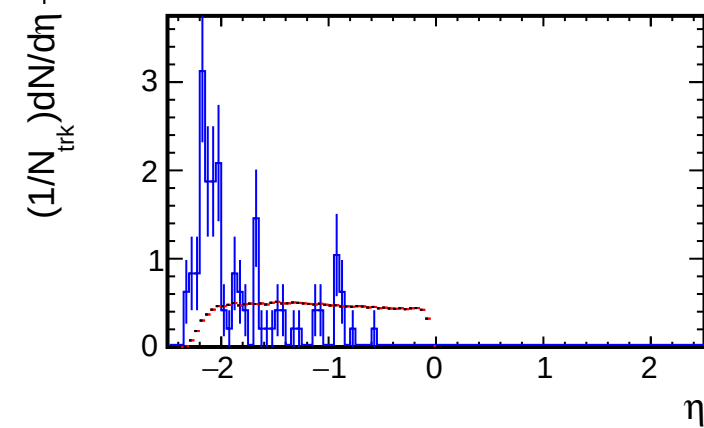
$p_T < 3.0$ (GeV/c)



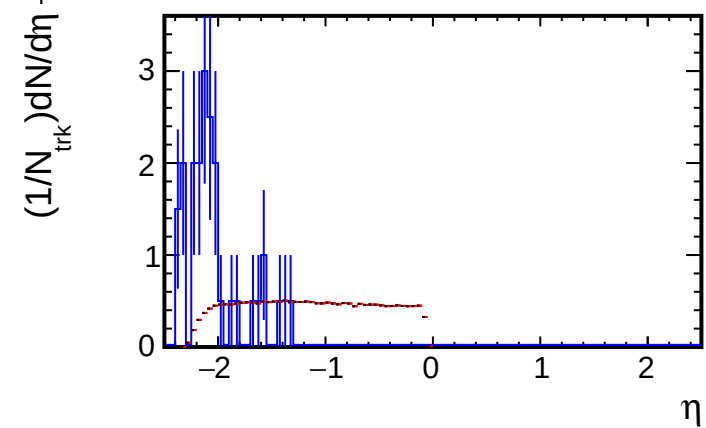
$p_T < 3.5$ (GeV/c)



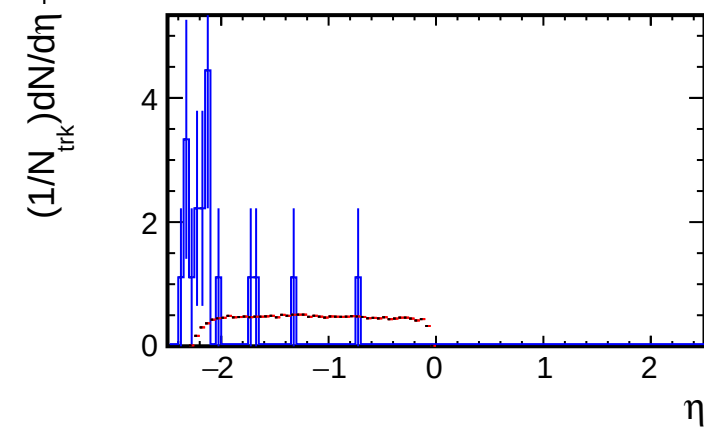
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

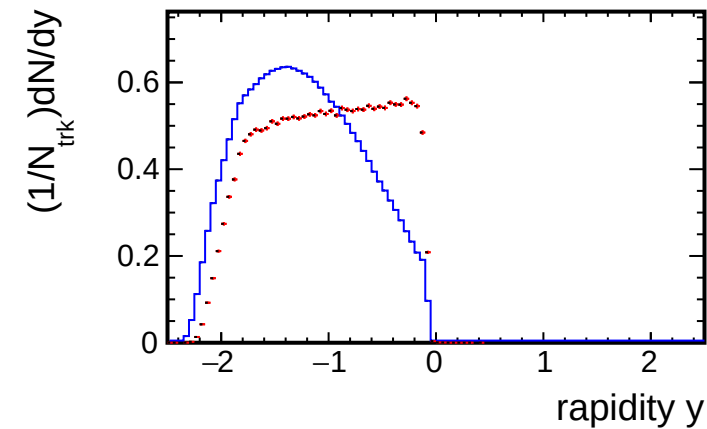


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

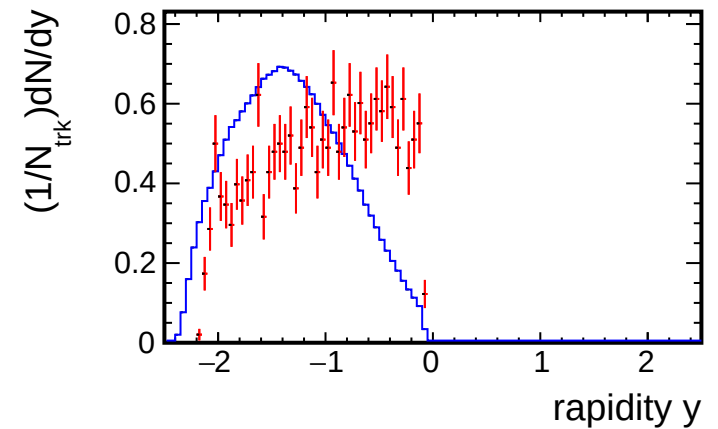
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of y for each p_T bin

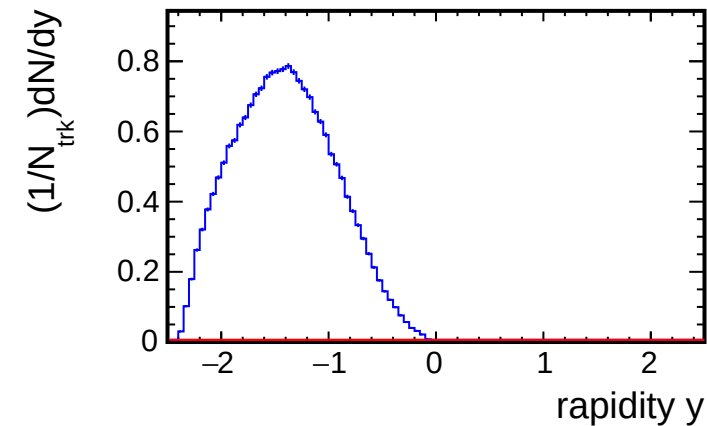
$p_T < 0.5$ (GeV/c)



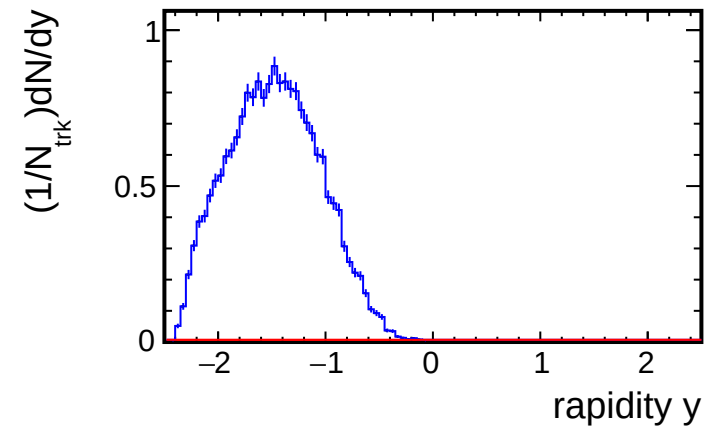
$p_T < 1.0$ (GeV/c)



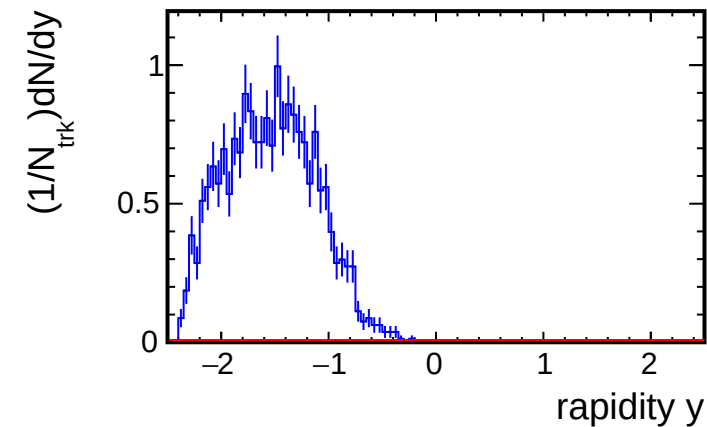
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

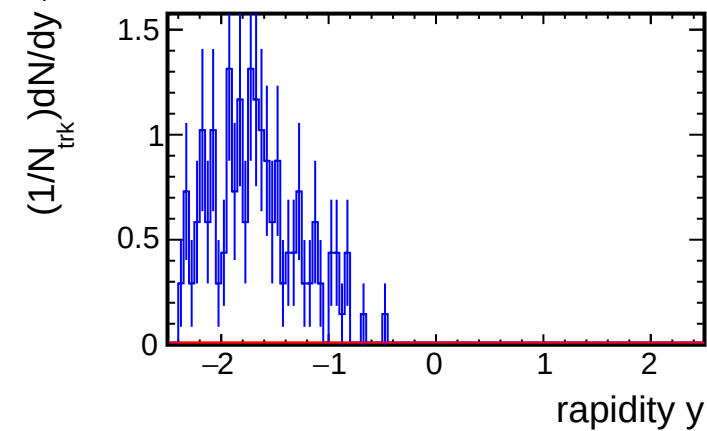


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

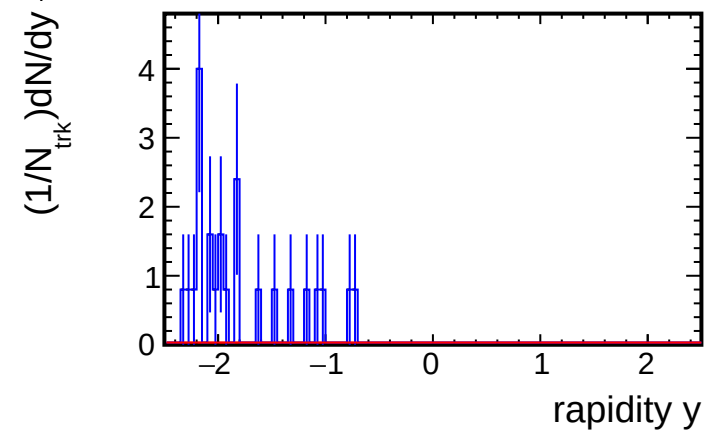
— pi-
(PRIMARY, $|\ln \sigma_{\text{pi-}}| < 2$ TPC)

Projection of y for each p_T bin

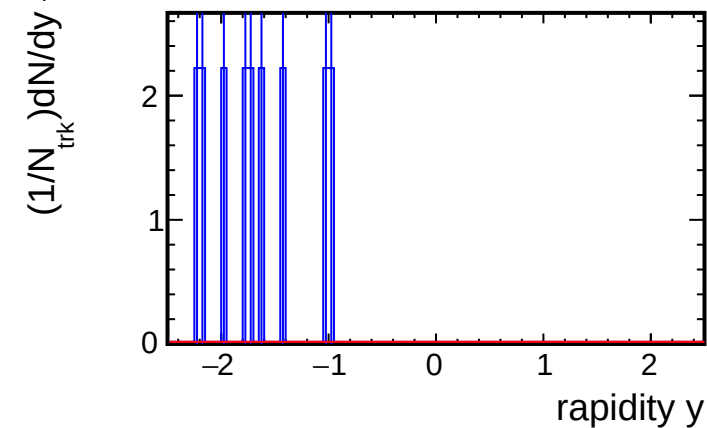
$p_T < 3.0$ (GeV/c)



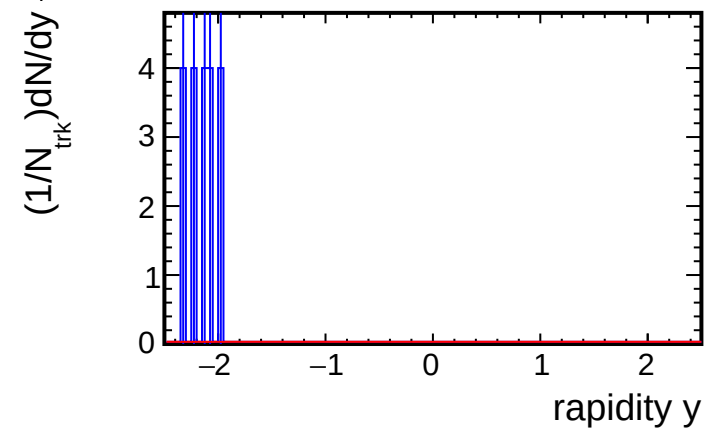
$p_T < 3.5$ (GeV/c)



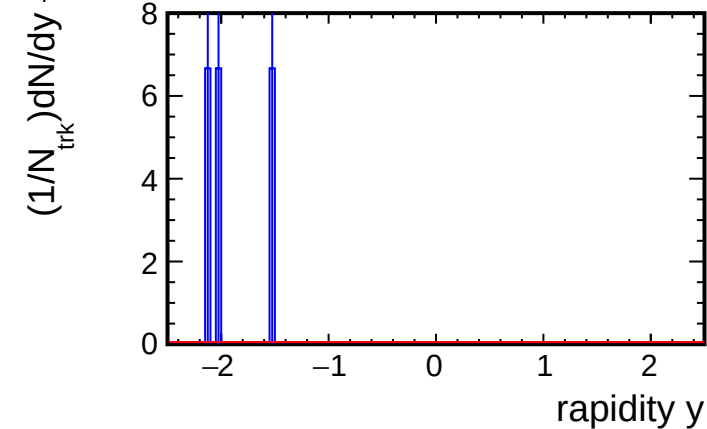
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

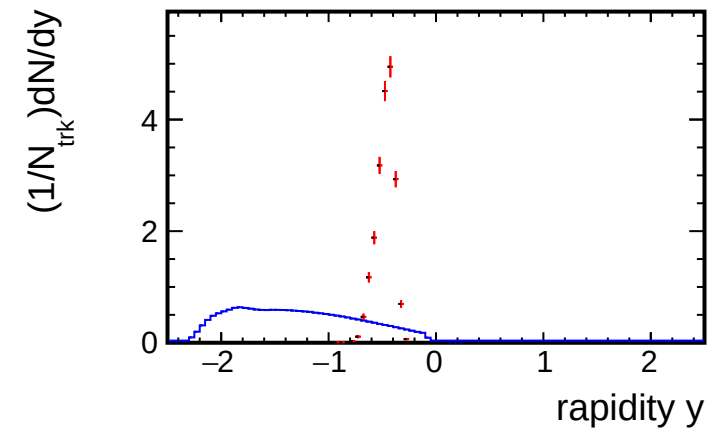


— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

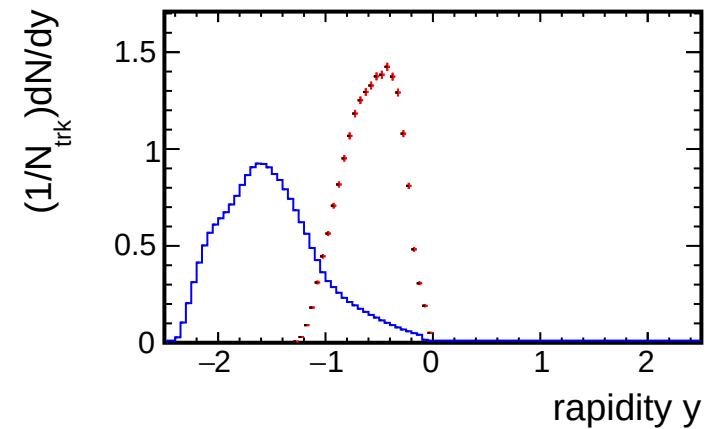
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of y for each p_T bin

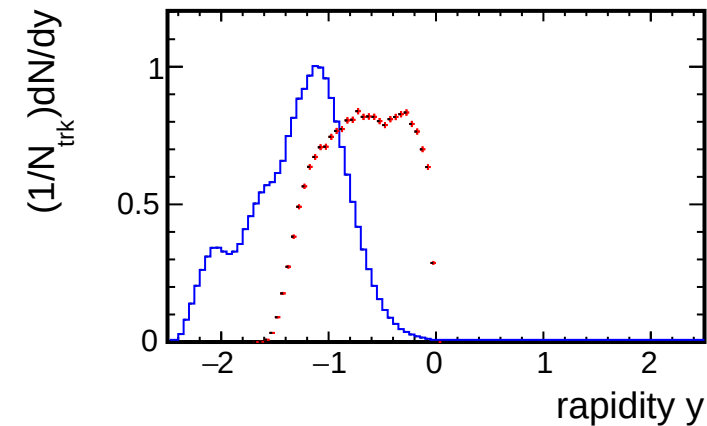
$p_T < 0.5$ (GeV/c)



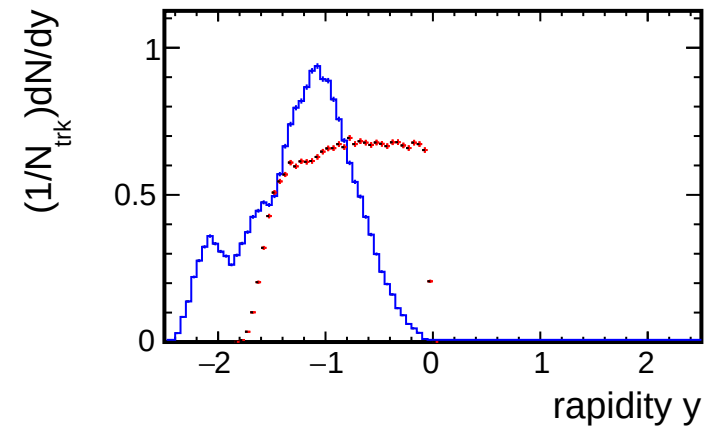
$p_T < 1.0$ (GeV/c)



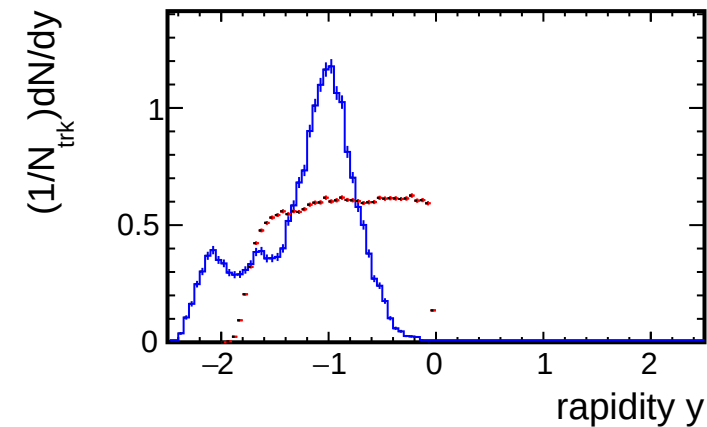
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

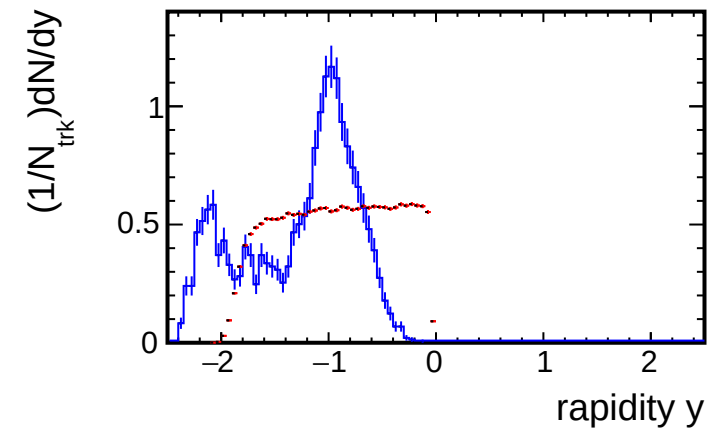


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

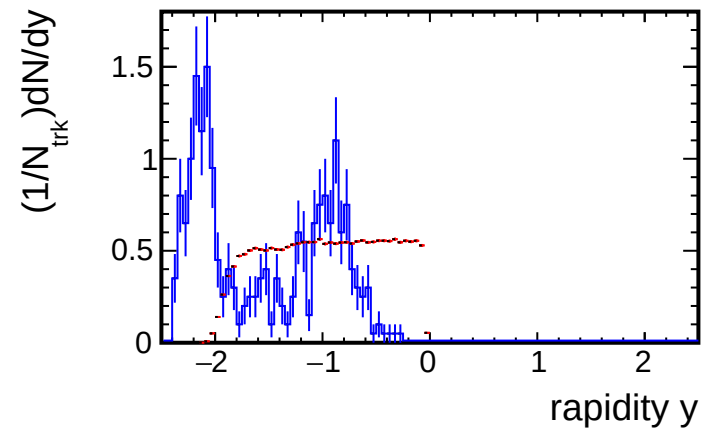
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Projection of y for each p_T bin

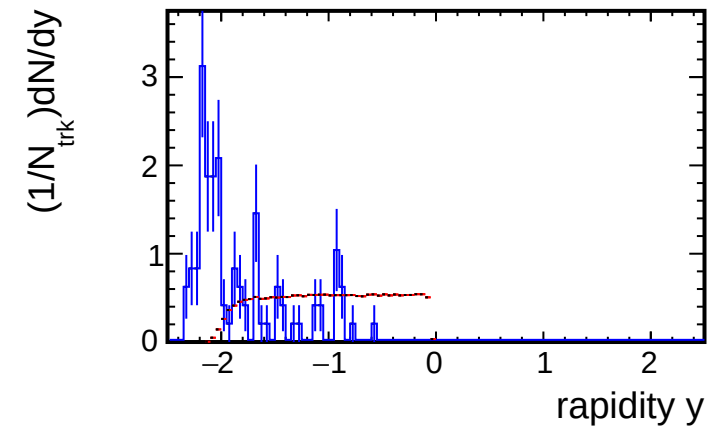
$p_T < 3.0$ (GeV/c)



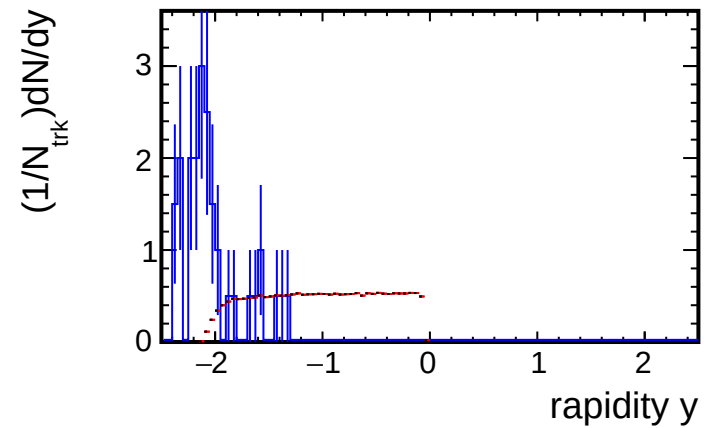
$p_T < 3.5$ (GeV/c)



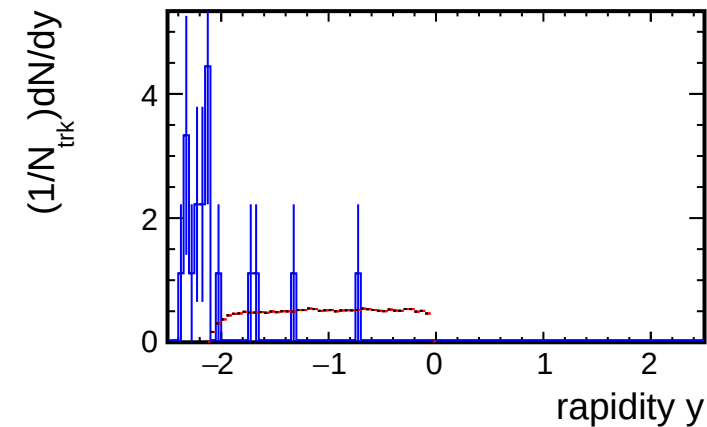
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



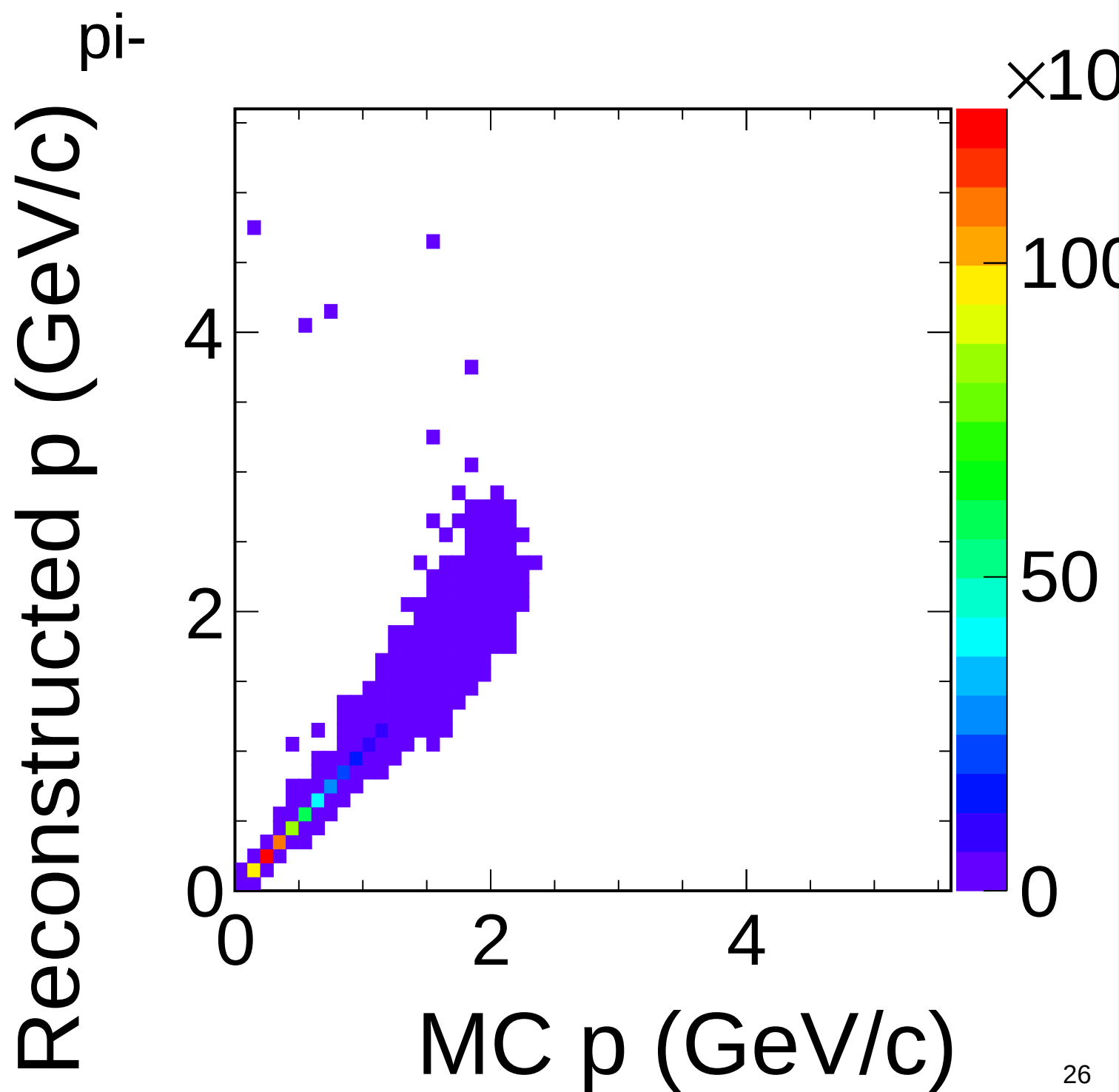
$p_T < 5.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

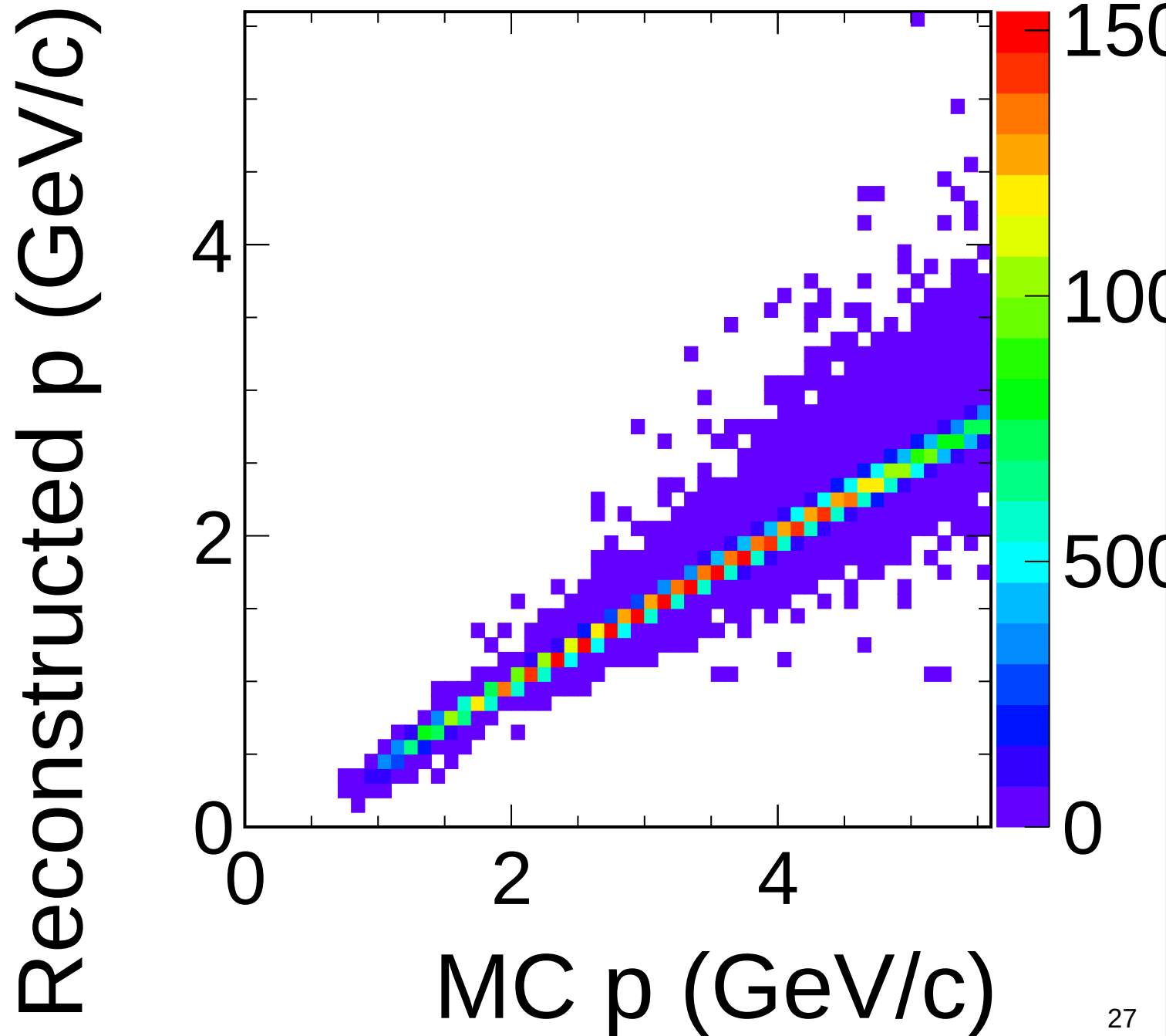
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Reconstructed momentum vs MC momentum

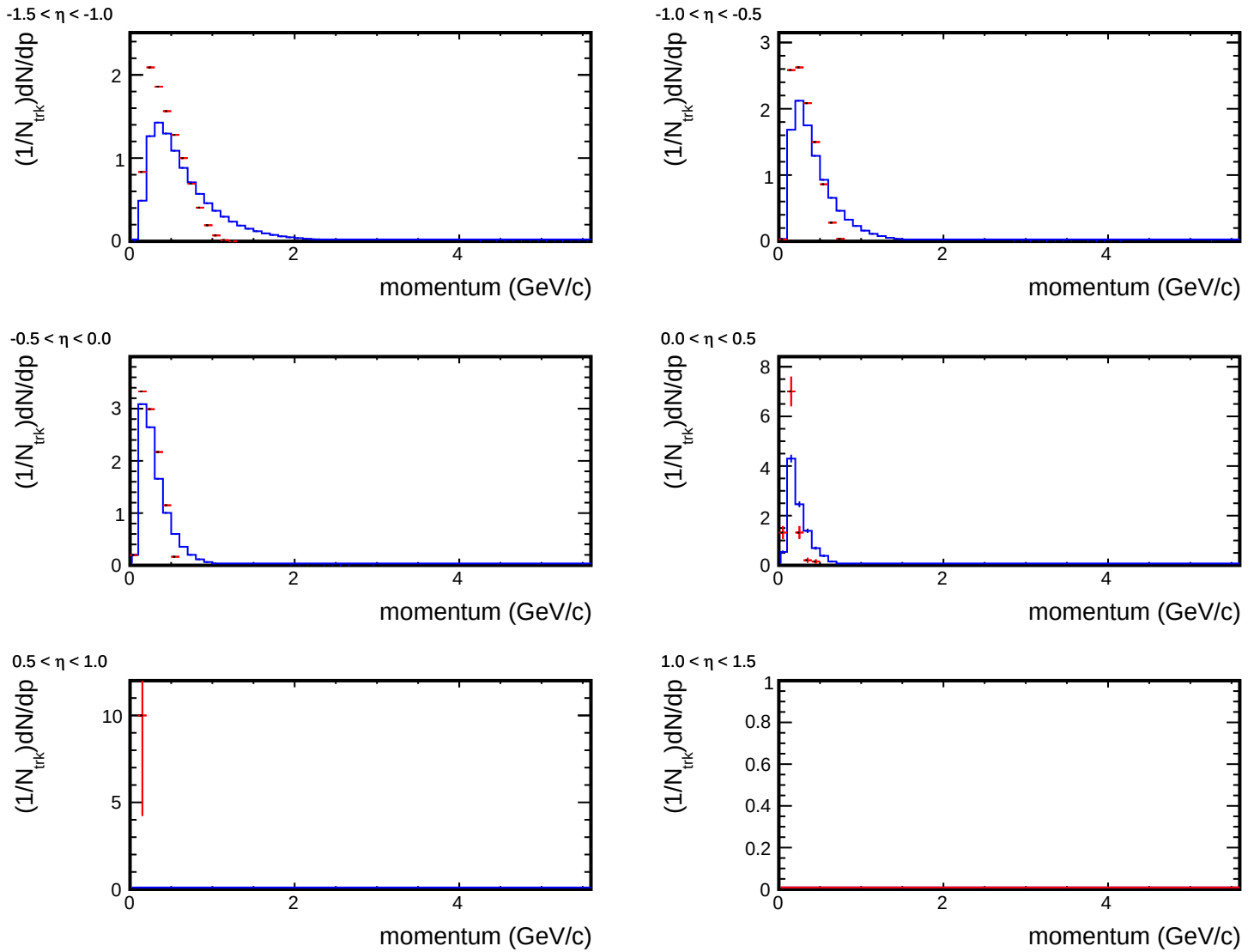


Reconstructed momentum vs MC momentum

He3



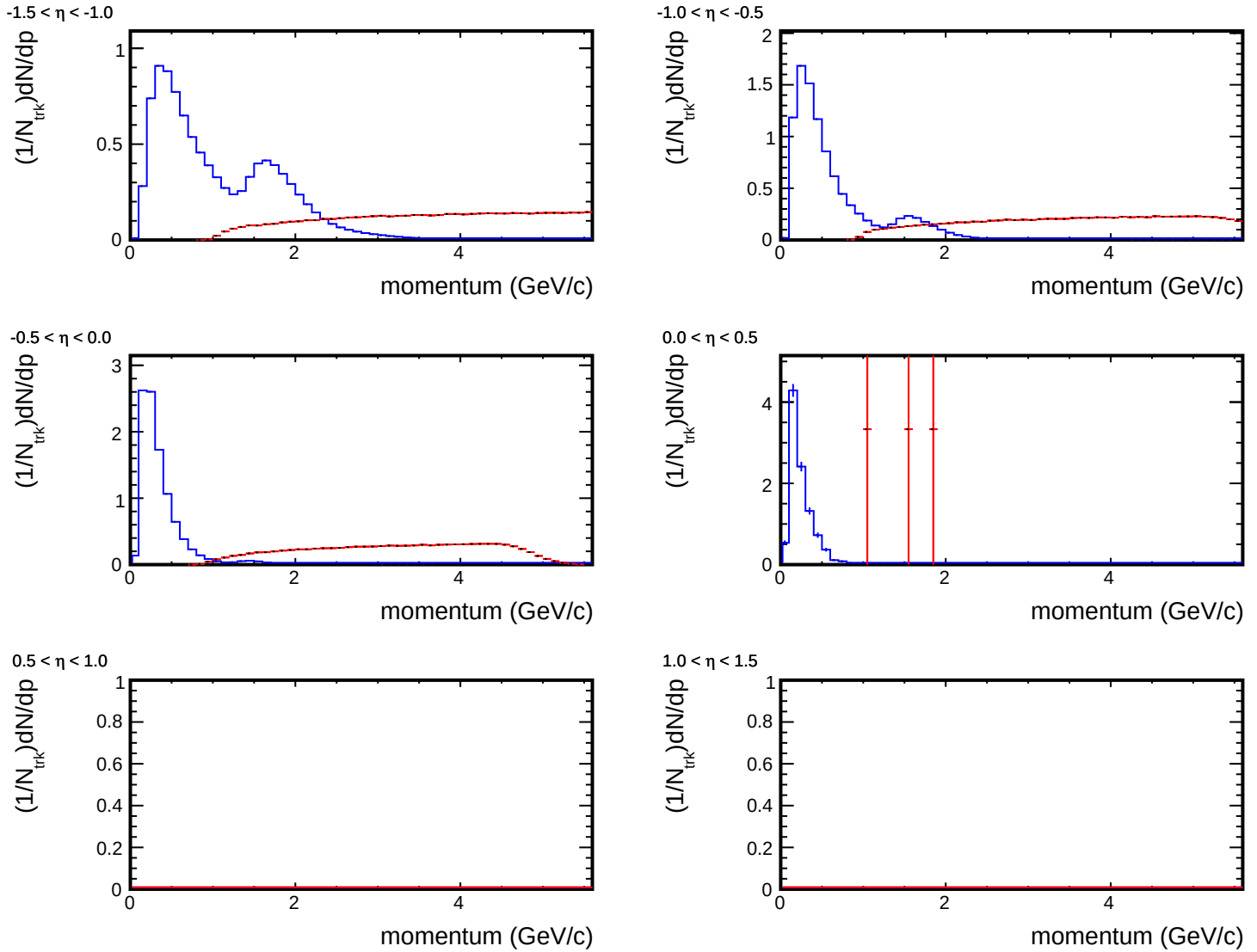
Projection of p for each η bin



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

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

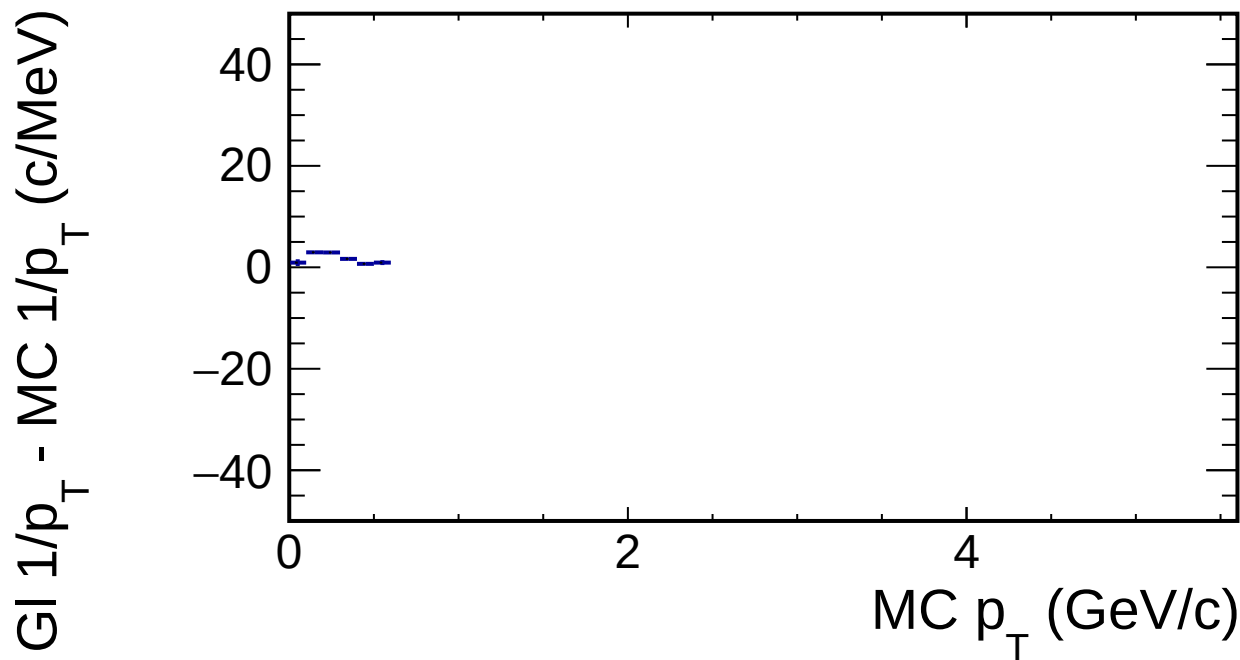
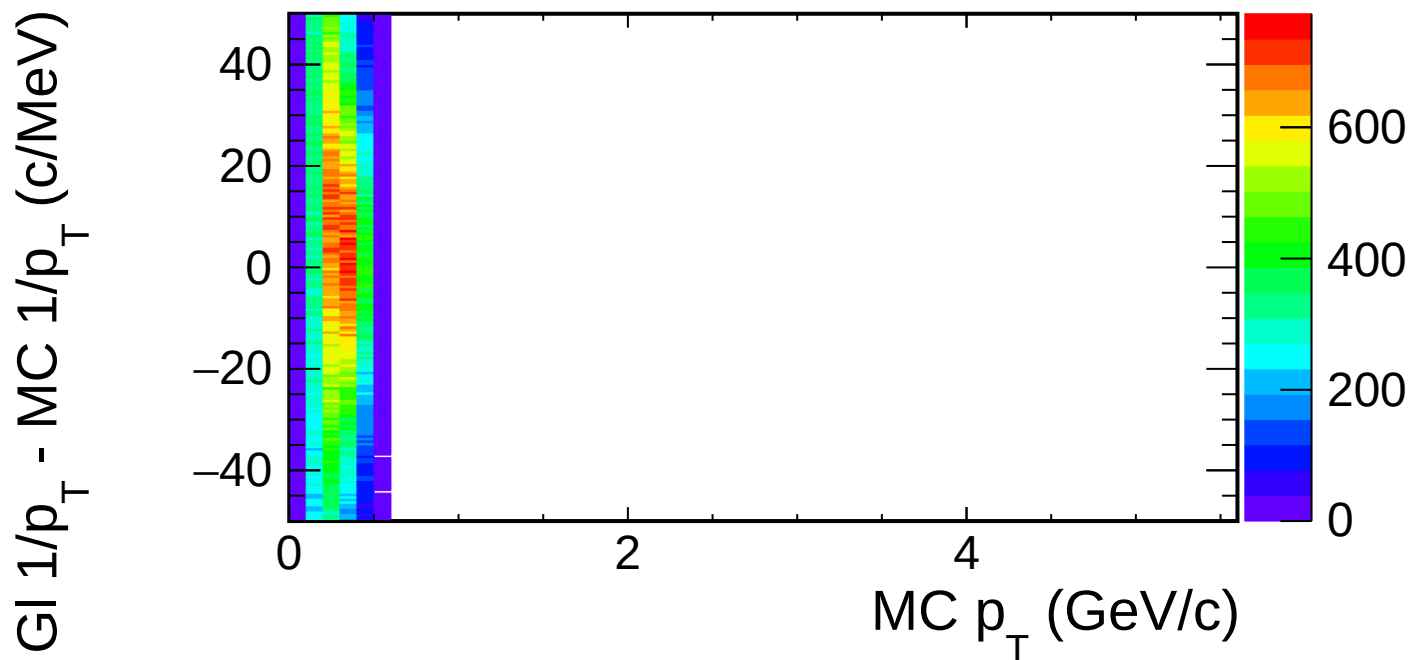
Projection of p for each η bin



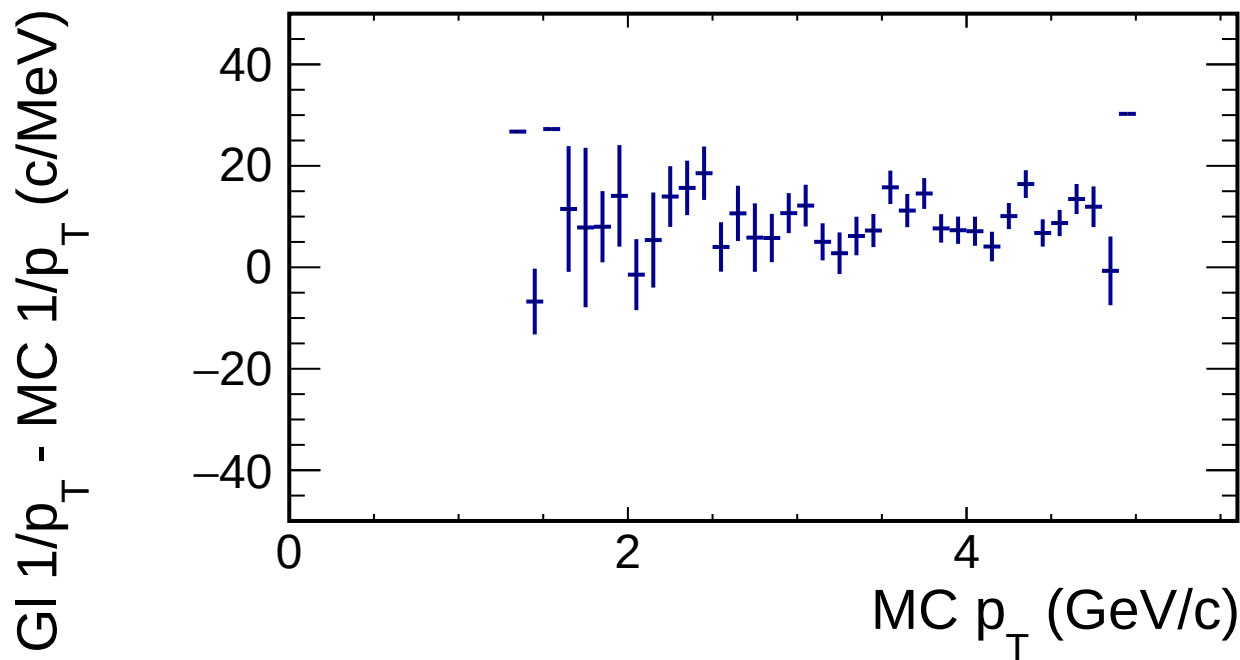
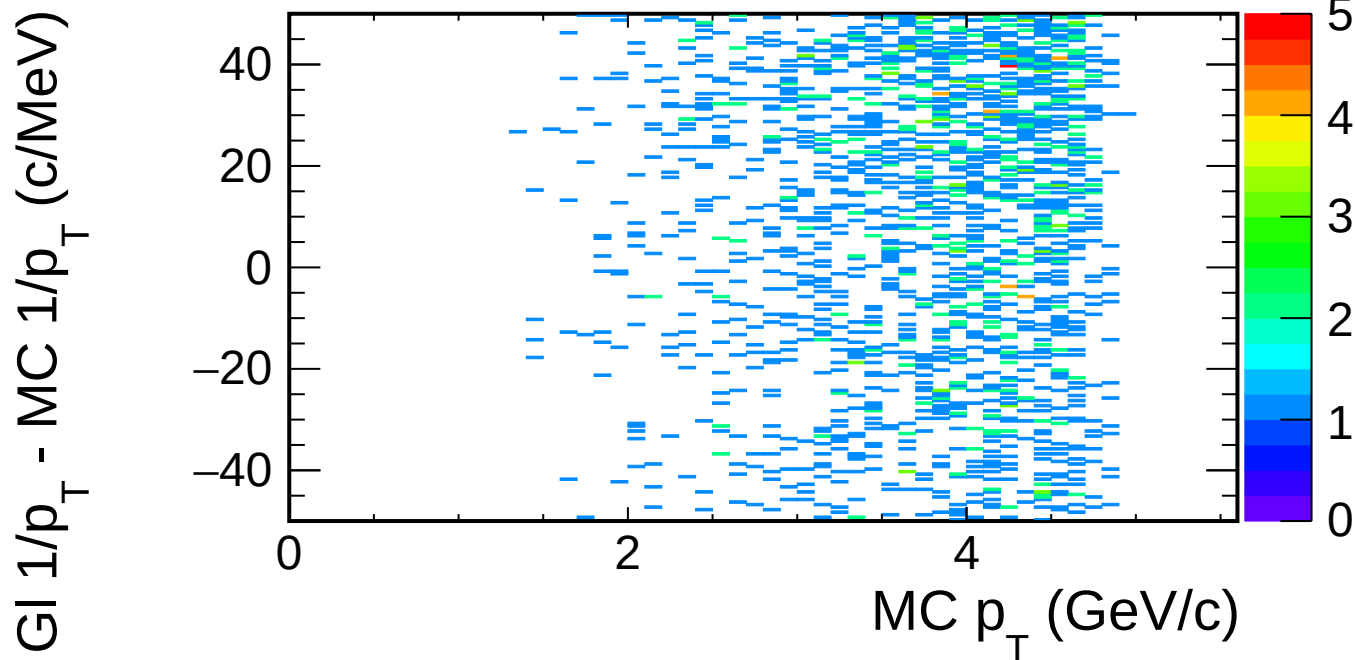
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

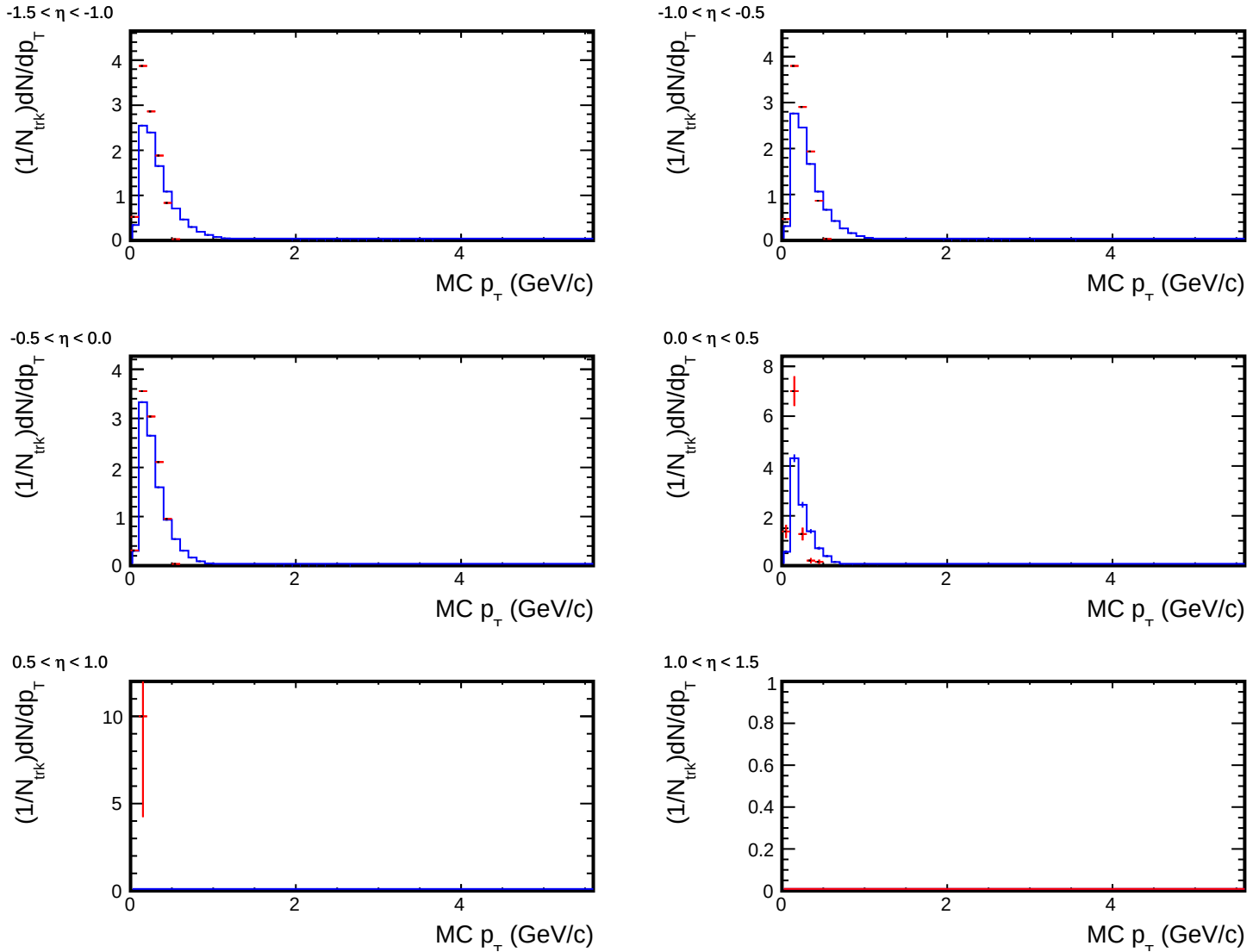
$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (pi-)



$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (He3)



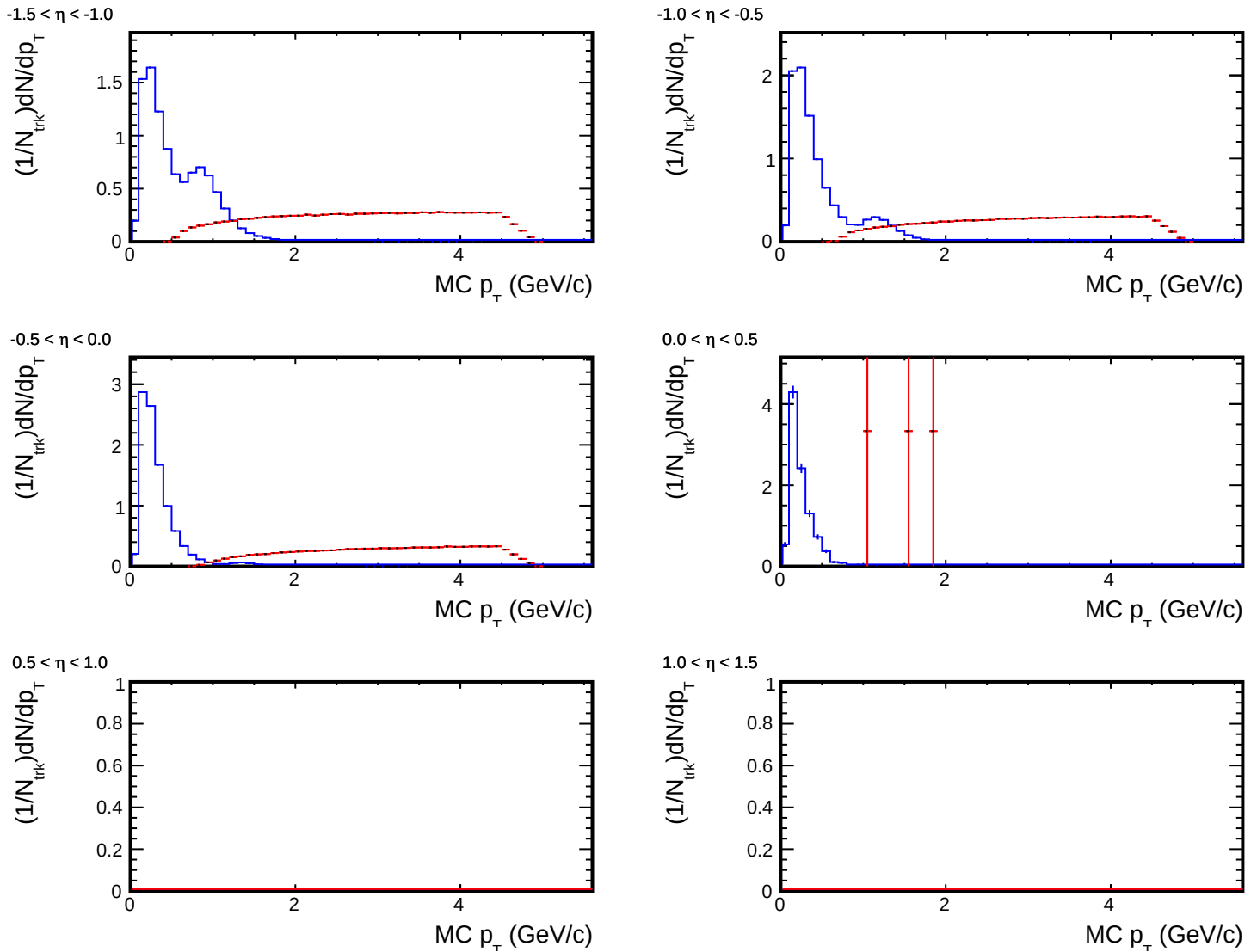
Projection of p_T for each η bin



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

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

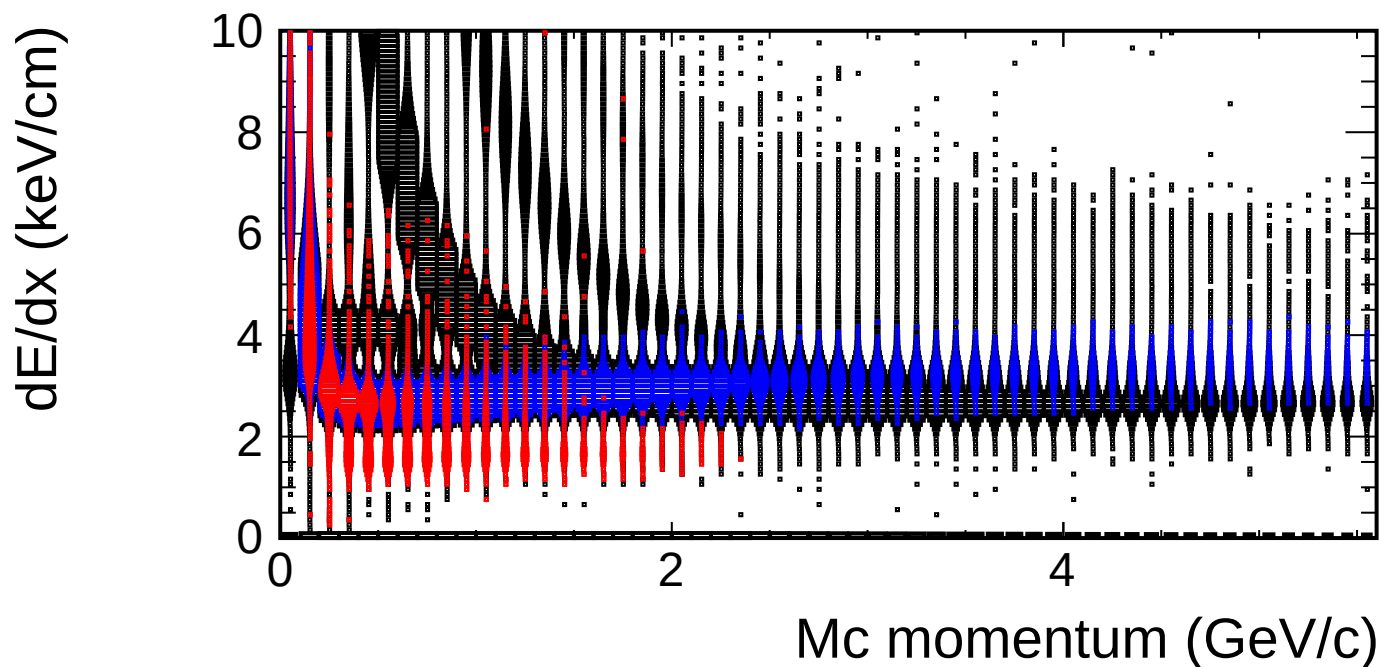
Projection of p_T for each η bin



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

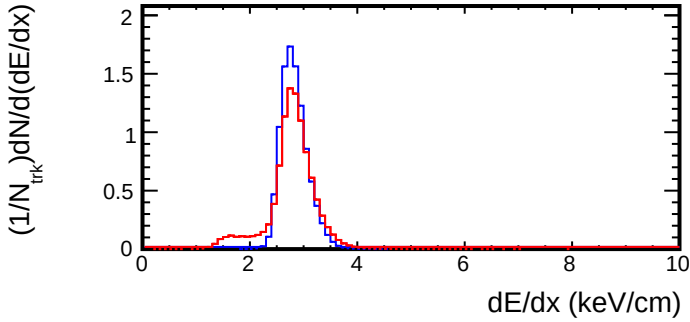
dE/dx vs momentum (Embedding:pi-, Real:pi-)



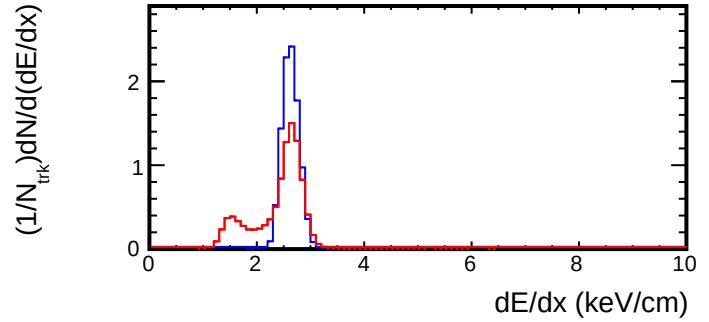
- Daughter π^- (from HyperTriton) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

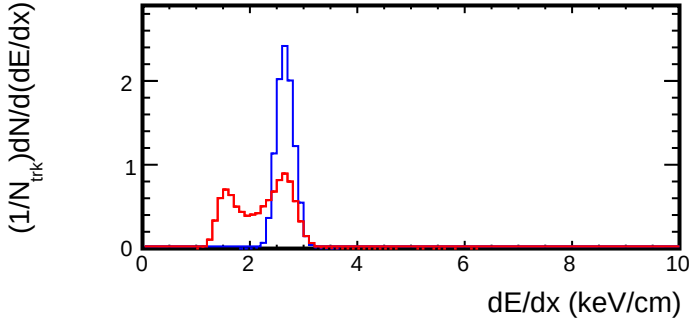
< Mc p < 0.4 GeV/c



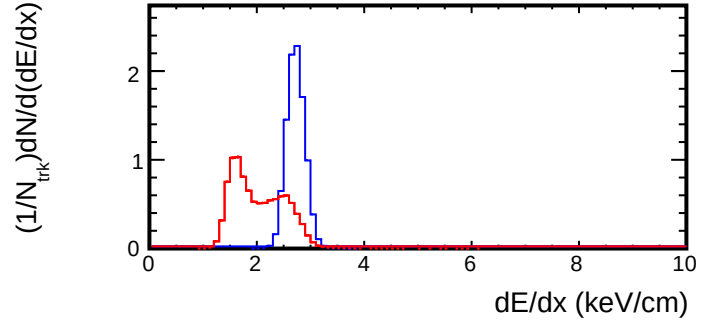
< Mc p < 0.6 GeV/c



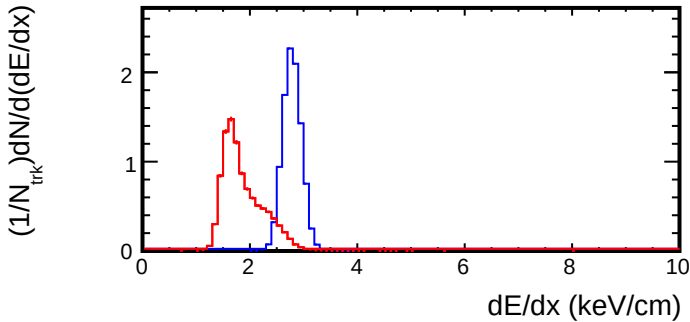
< Mc p < 0.8 GeV/c



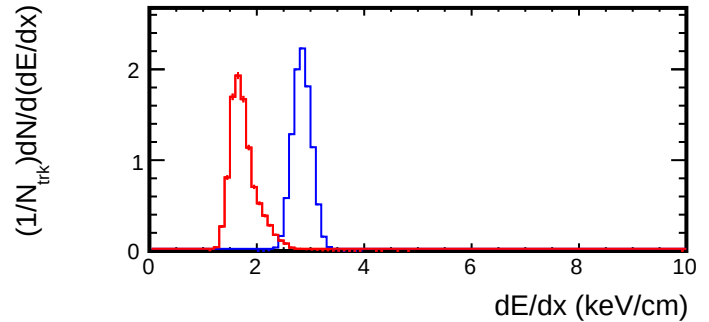
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

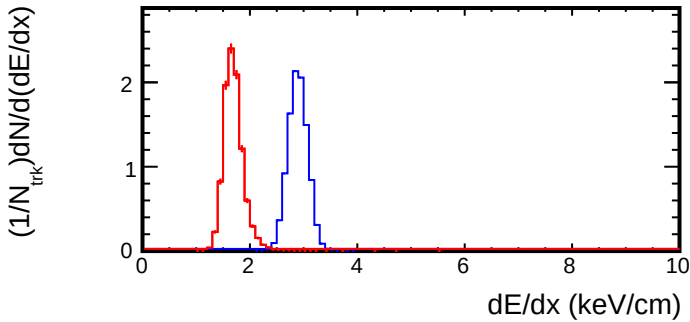


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

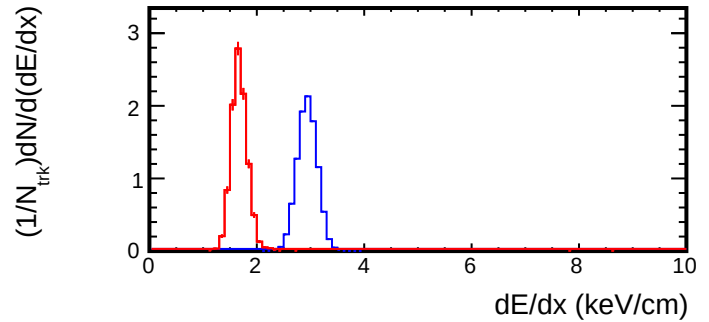
— pi-
(PRIMARY, $|n \sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

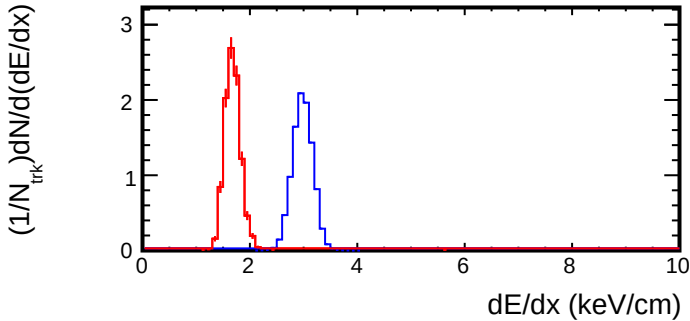
< Mc p < 1.6 GeV/c



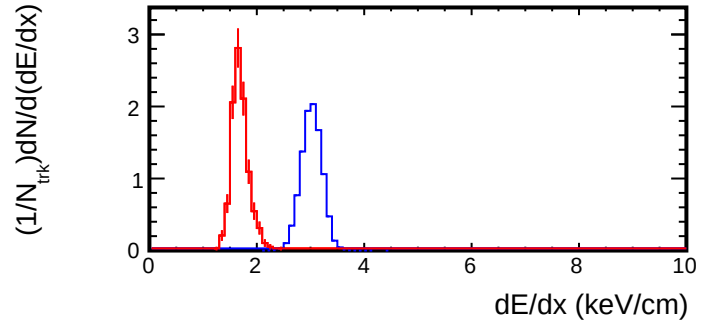
< Mc p < 1.8 GeV/c



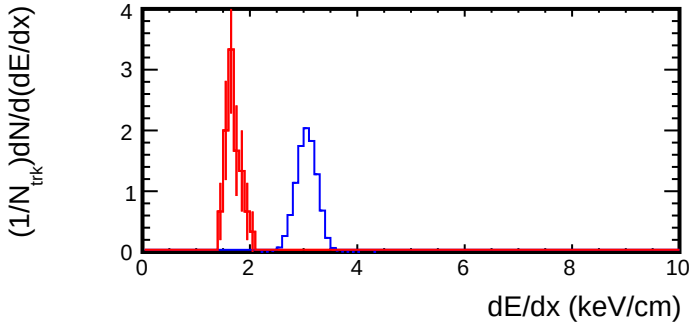
< Mc p < 2.0 GeV/c



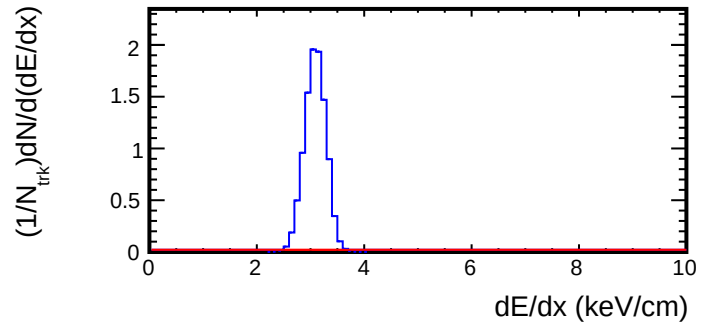
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

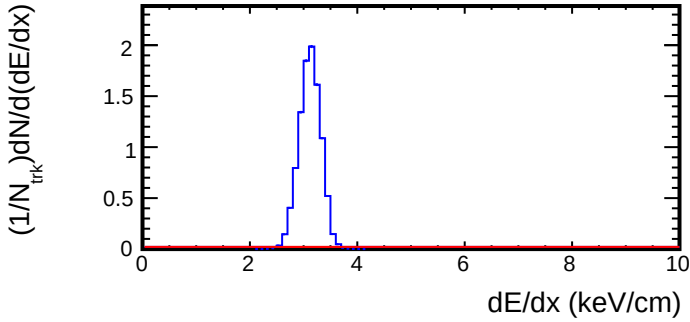


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

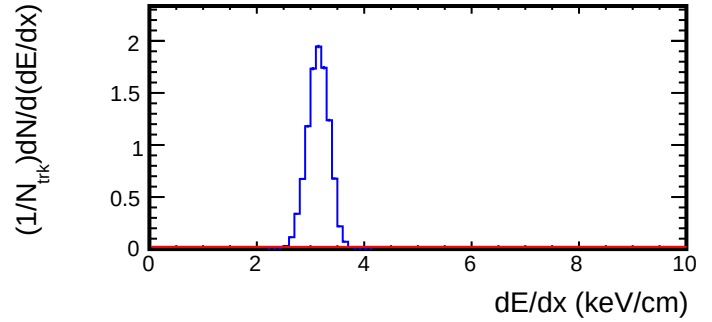
— pi-
(PRIMARY, $|n \sigma_{\pi^-}| < 2$ TPC)

Projection of dE/dx for each p bin

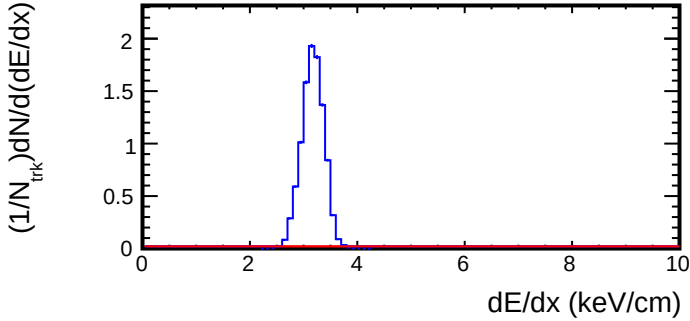
< Mc p < 2.8 GeV/c



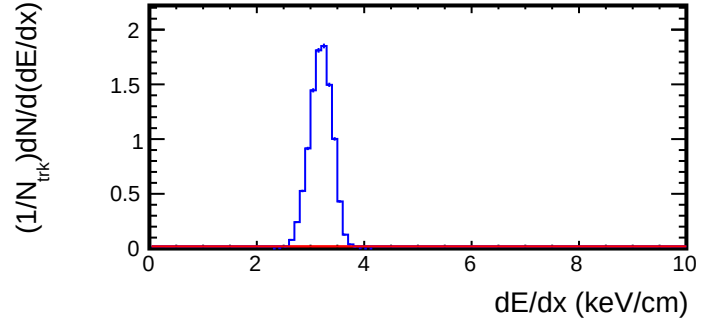
< Mc p < 3.0 GeV/c



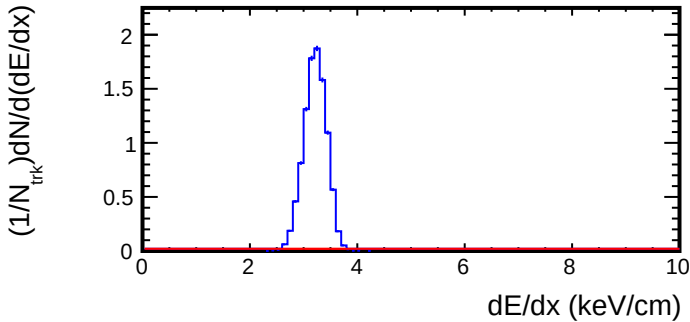
< Mc p < 3.2 GeV/c



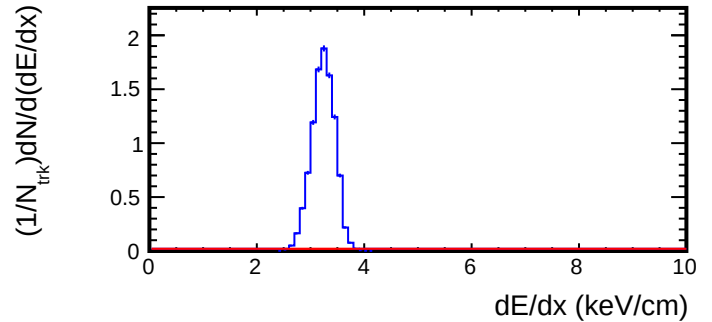
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

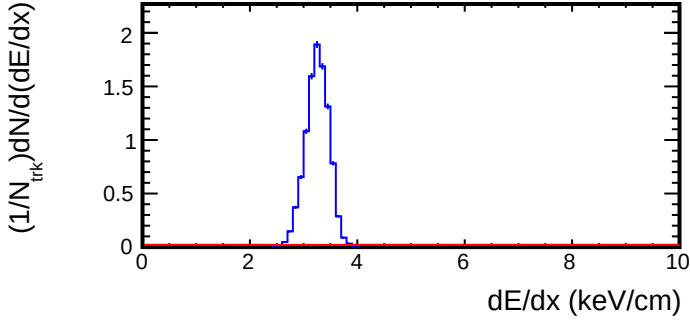


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

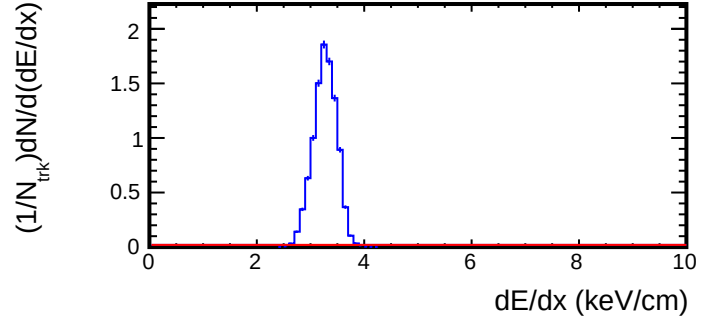
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

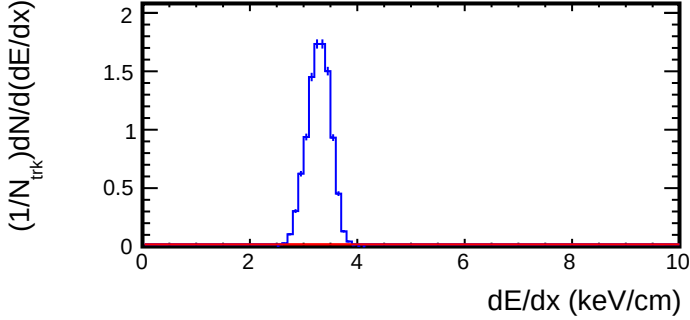
< Mc p < 4.0 GeV/c



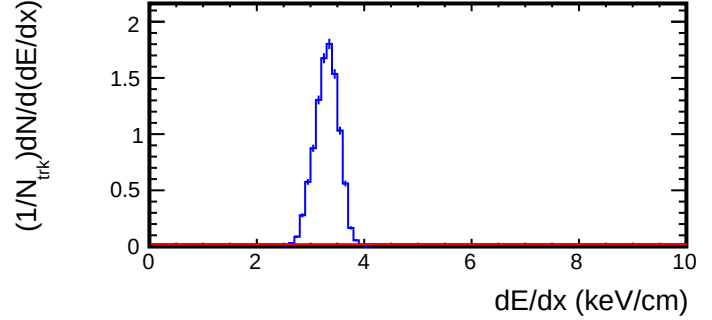
< Mc p < 4.2 GeV/c



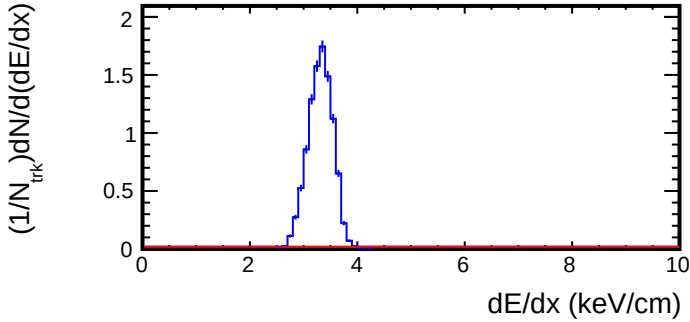
< Mc p < 4.4 GeV/c



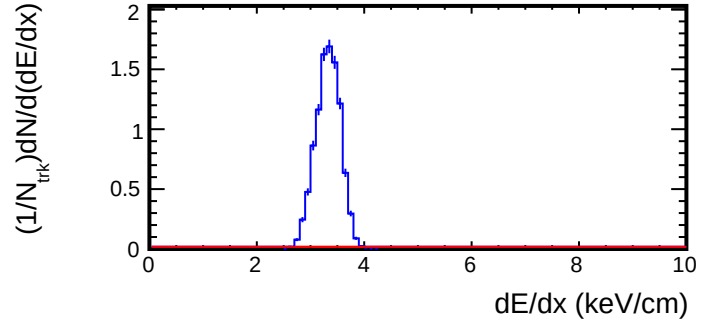
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



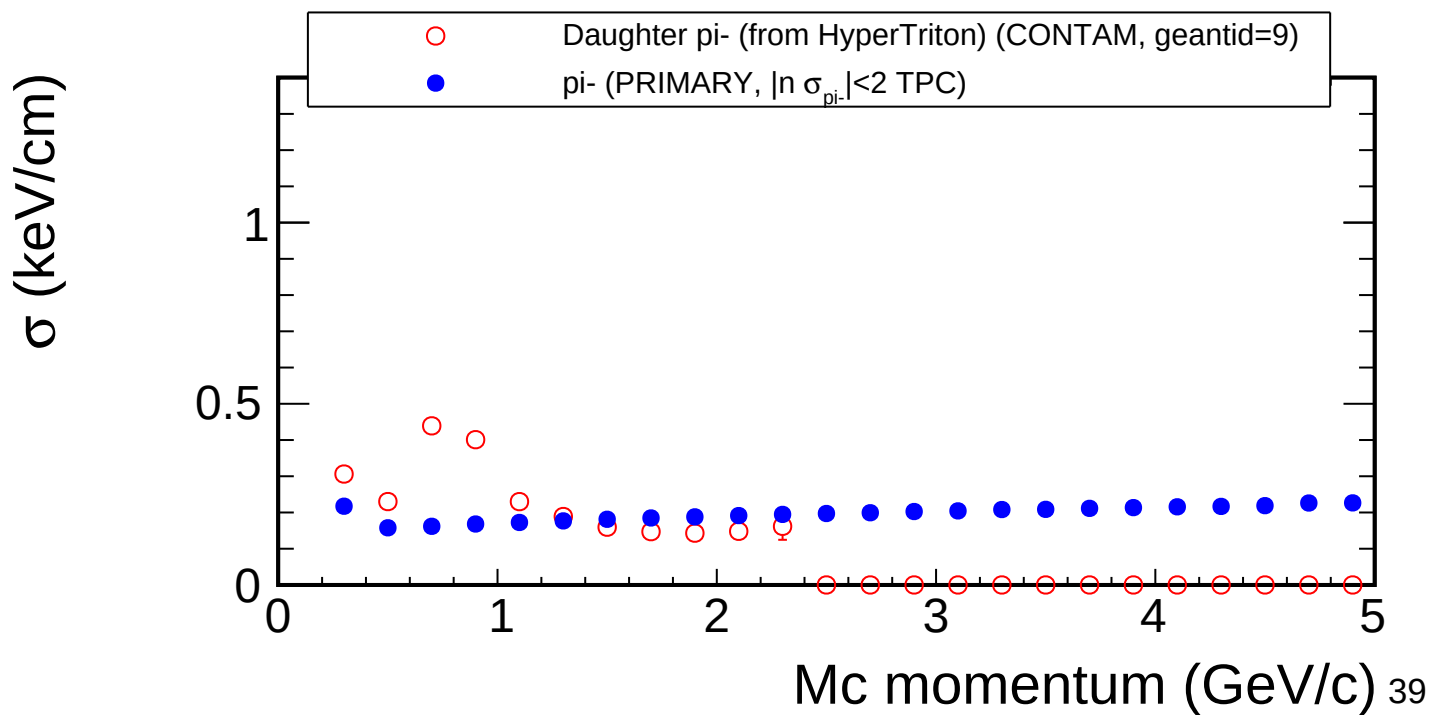
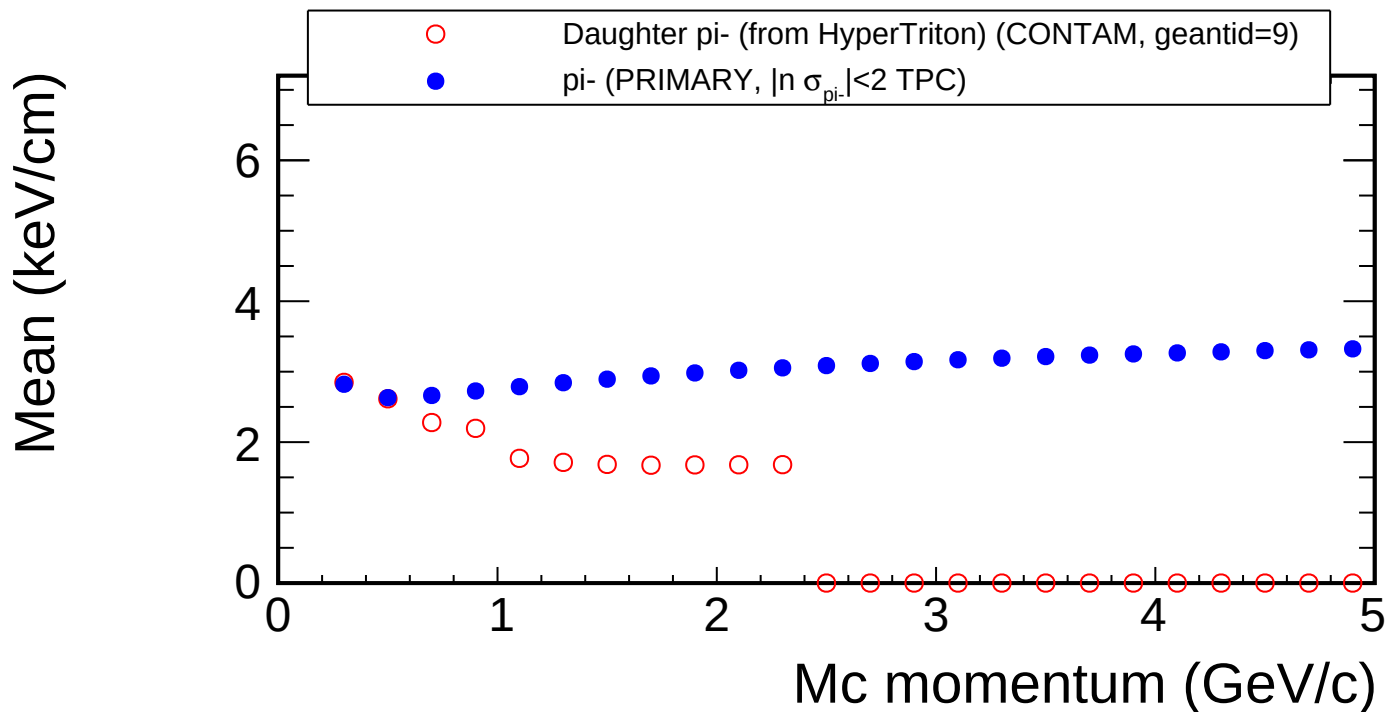
< Mc p < 5.0 GeV/c



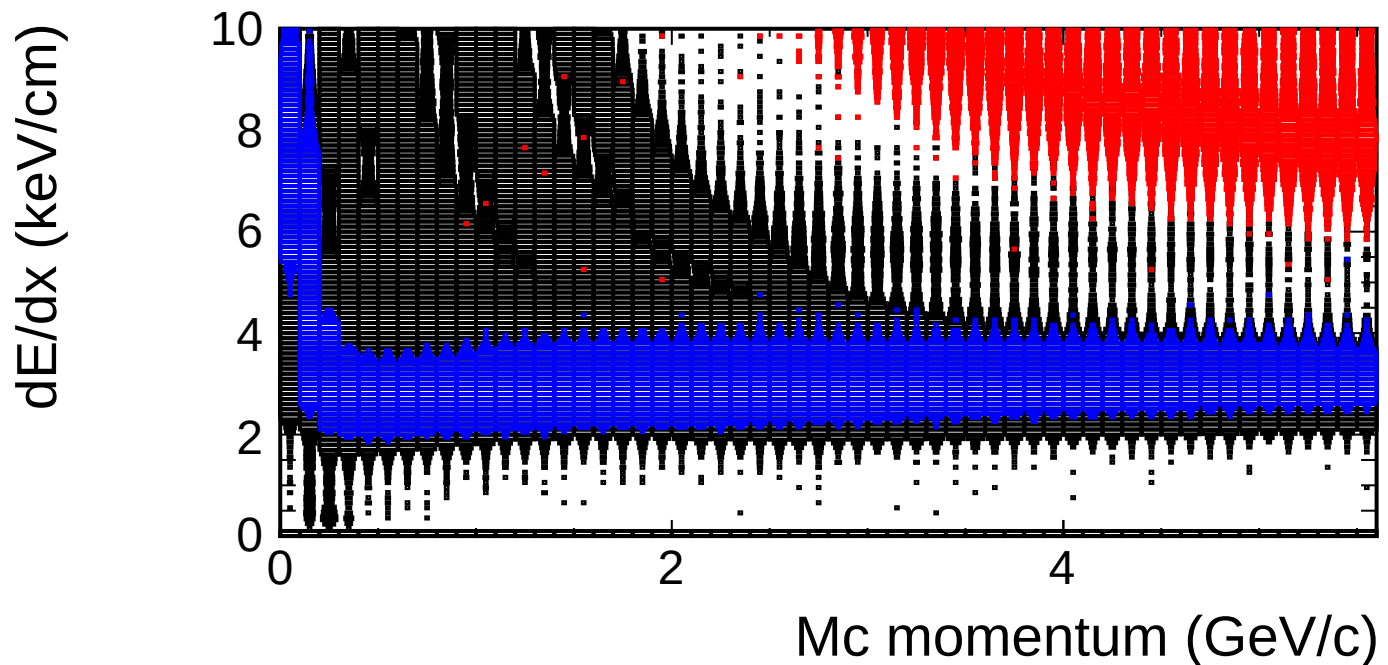
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

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

Mean/ σ of dE/dx vs momentum



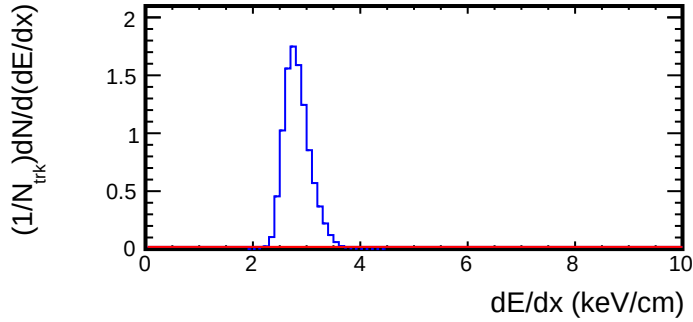
dE/dx vs momentum (Embedding:He3, Real:He3)



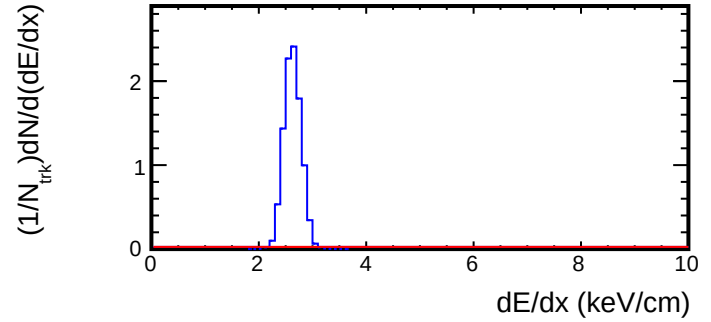
- Daughter He3 (from HyperTriton) (CONTAM, geantid=49)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

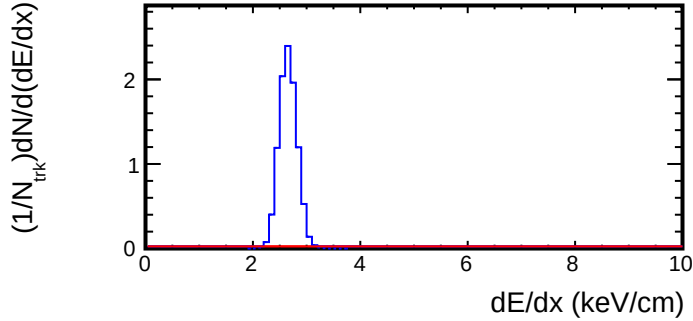
< Mc p < 0.4 GeV/c



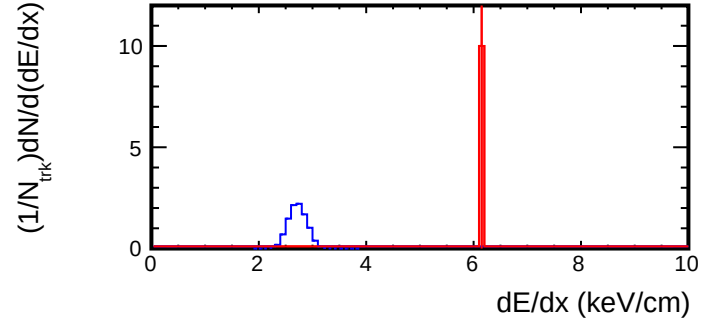
< Mc p < 0.6 GeV/c



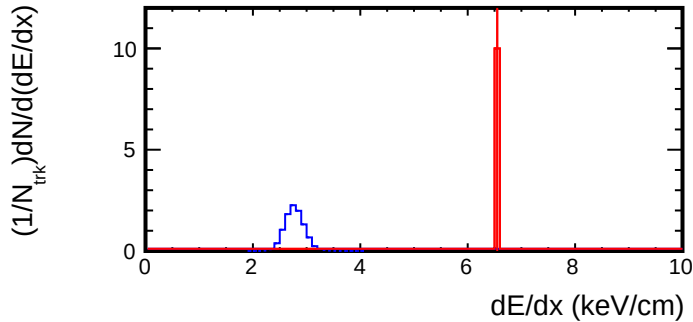
< Mc p < 0.8 GeV/c



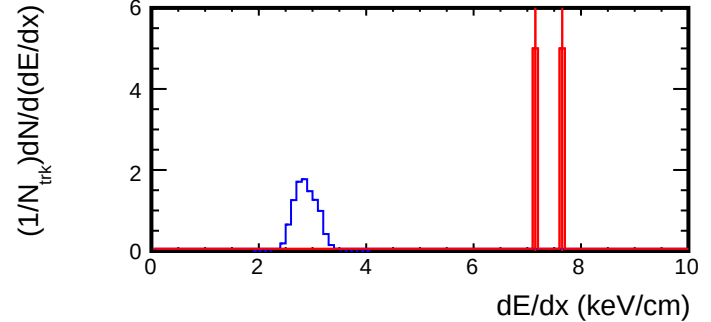
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



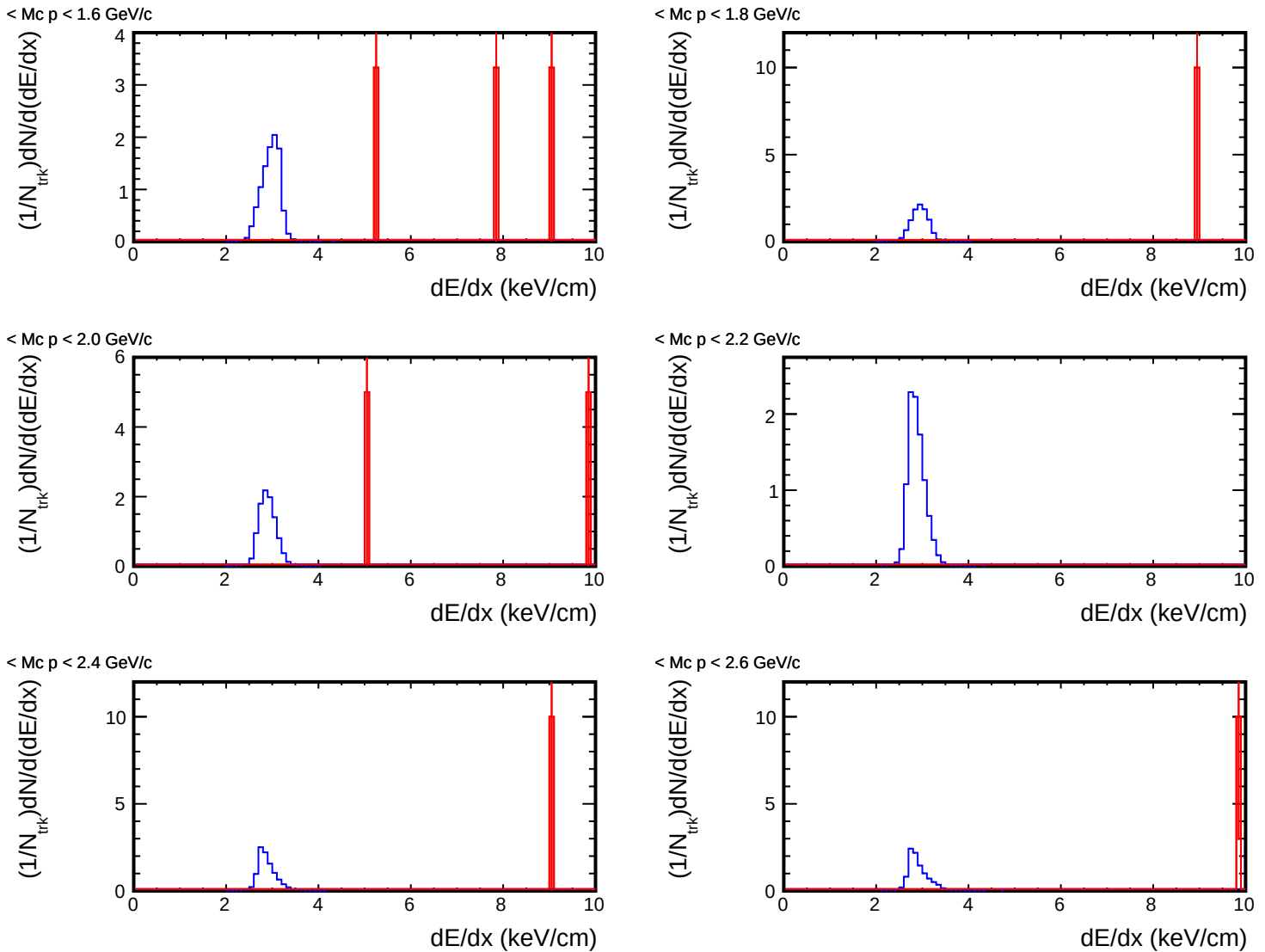
< Mc p < 1.4 GeV/c



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

Projection of dE/dx for each p bin

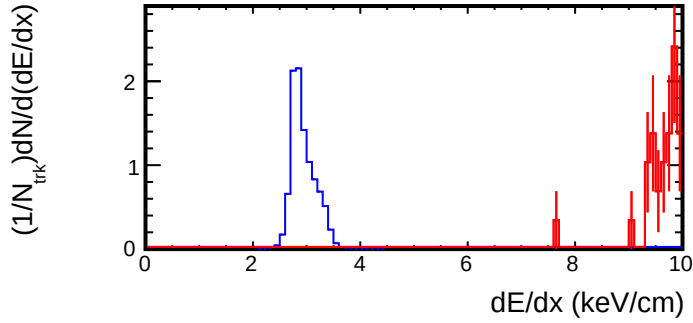


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

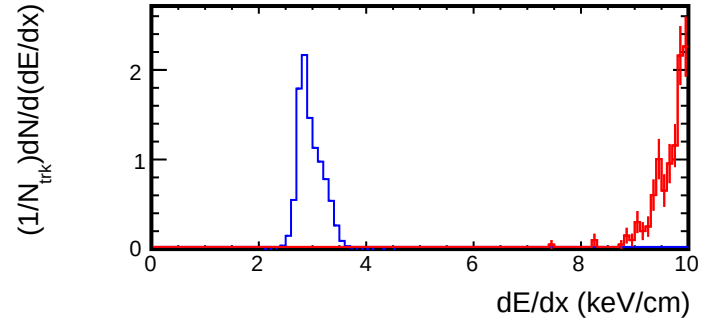
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

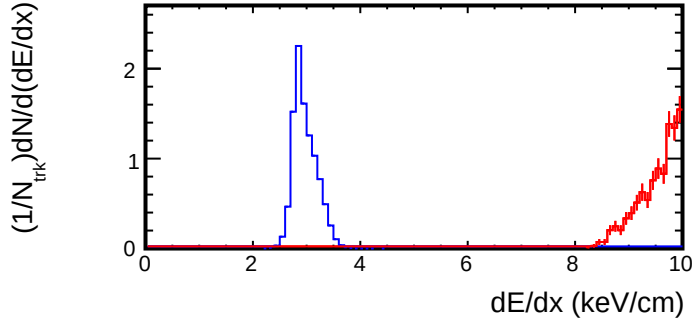
< Mc p < 2.8 GeV/c



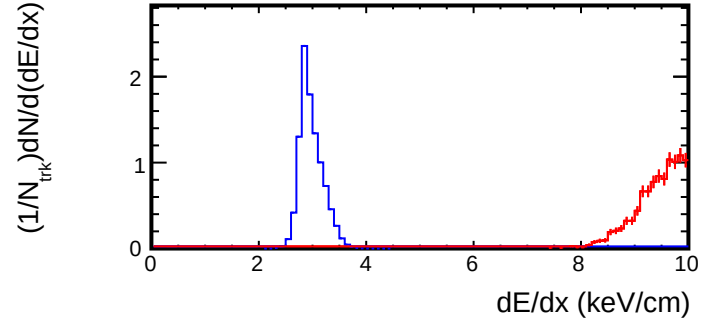
< Mc p < 3.0 GeV/c



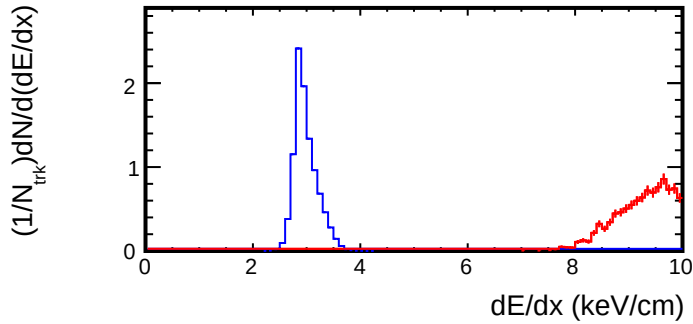
< Mc p < 3.2 GeV/c



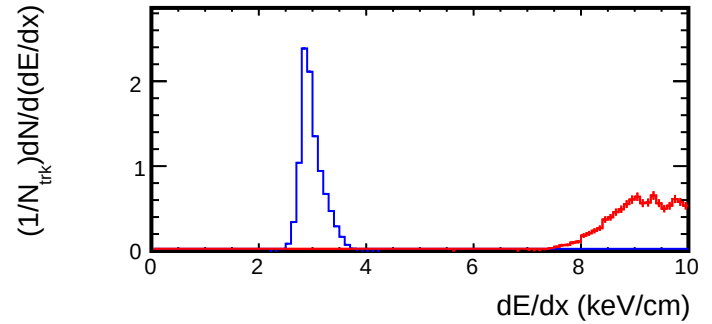
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

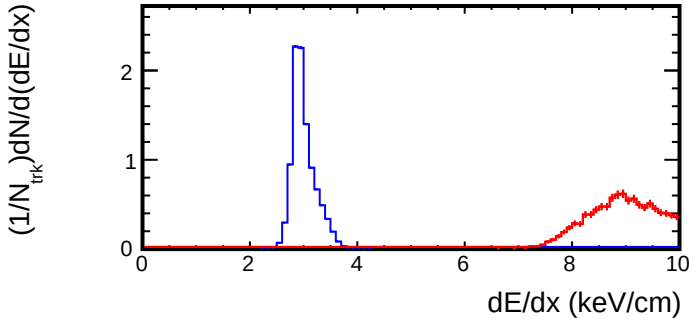


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

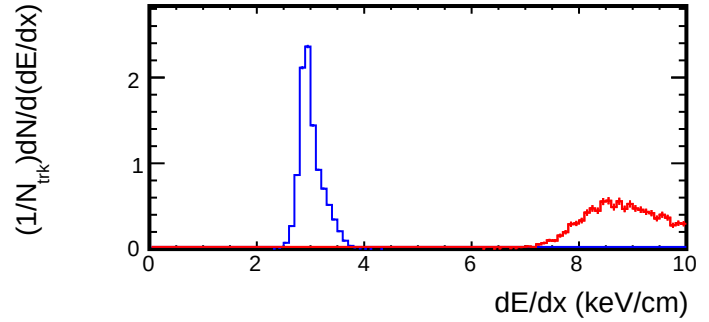
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

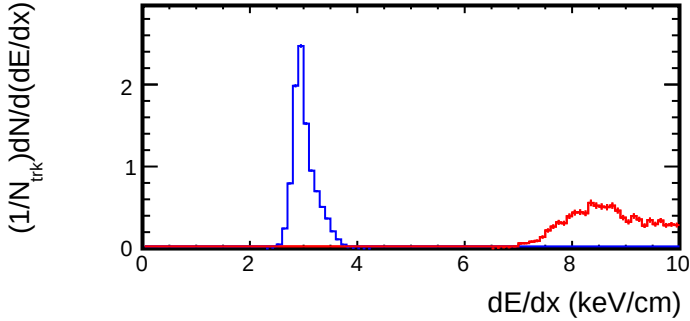
< Mc p < 4.0 GeV/c



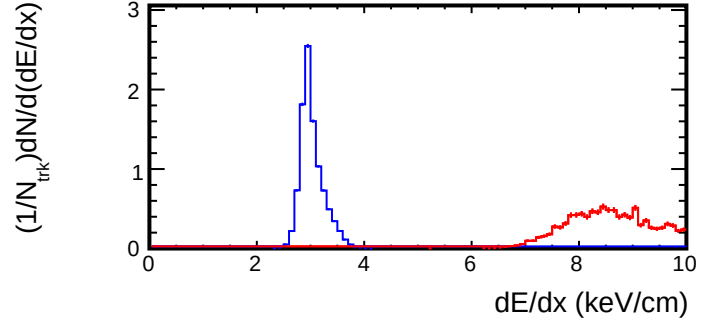
< Mc p < 4.2 GeV/c



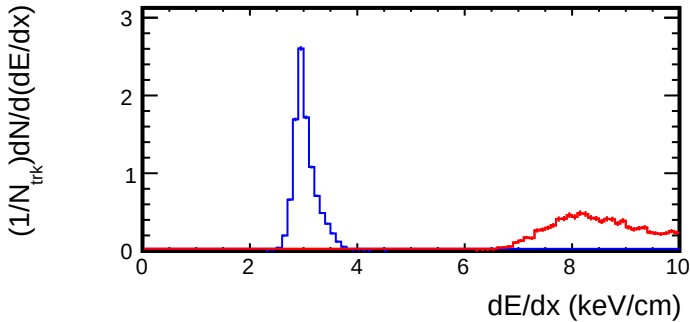
< Mc p < 4.4 GeV/c



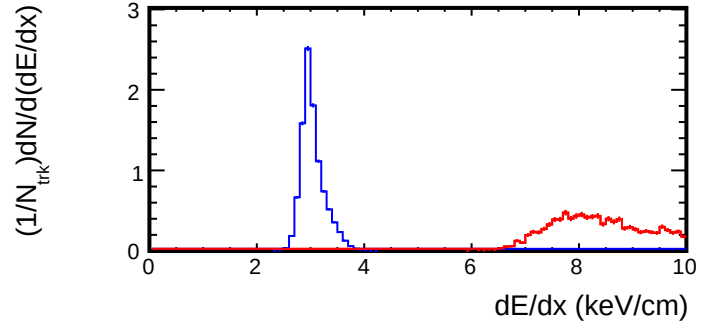
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



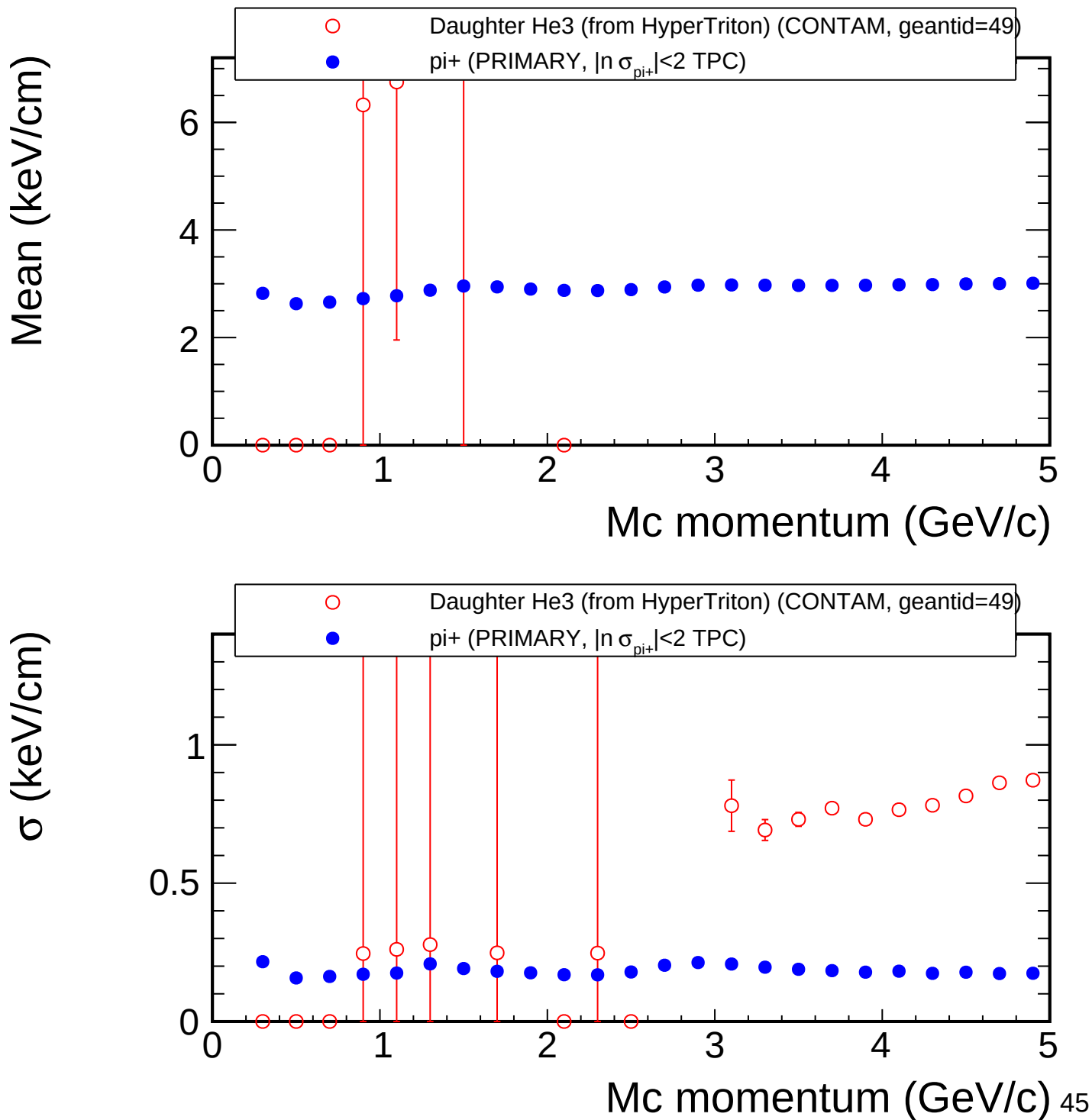
< Mc p < 5.0 GeV/c



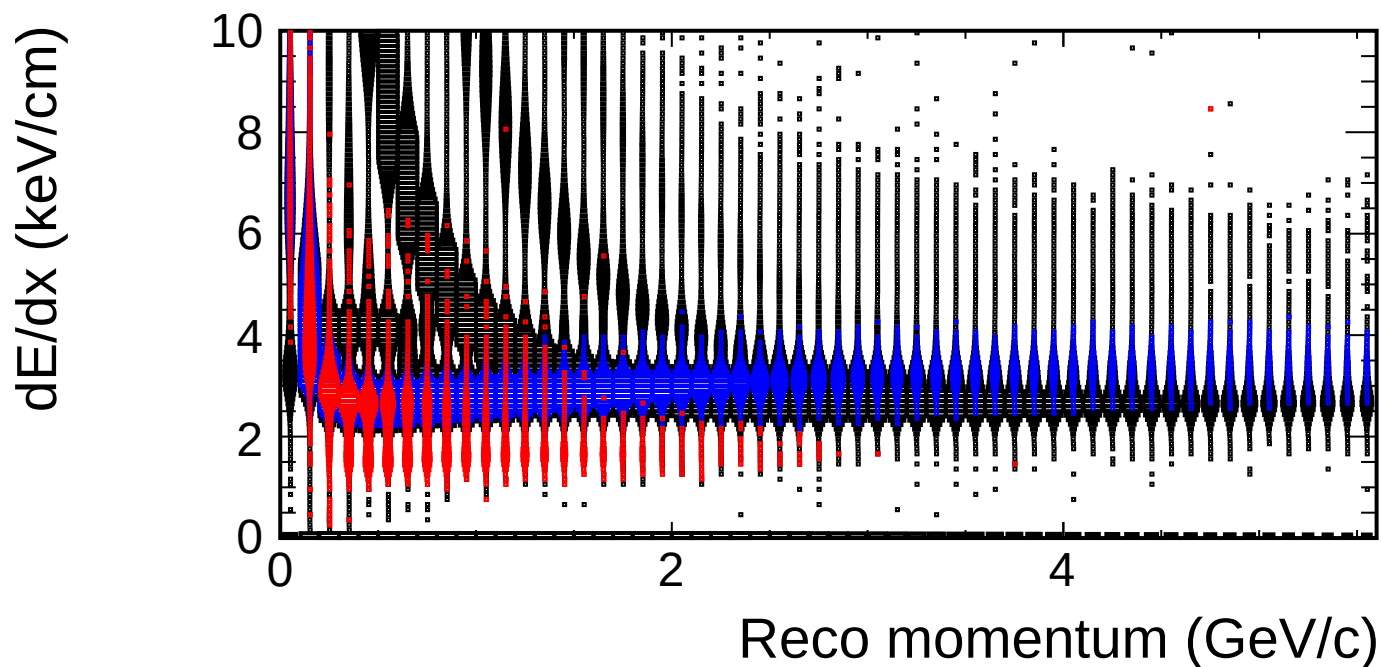
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

Mean/ σ of dE/dx vs momentum



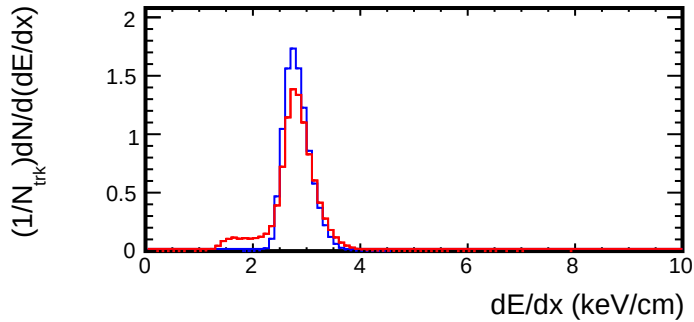
dE/dx vs momentum (Embedding:pi-, Real:pi-)



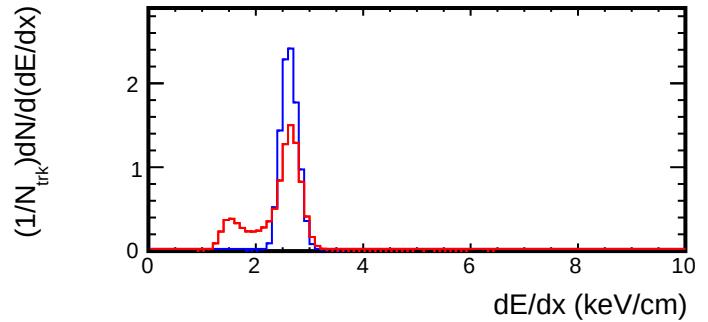
- Daughter π^- (from HyperTriton) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

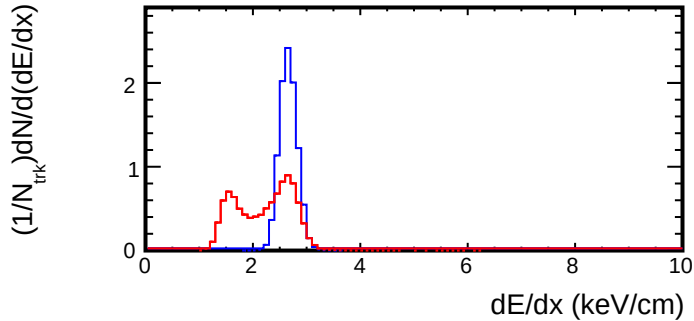
Reco p < 0.4 GeV/c



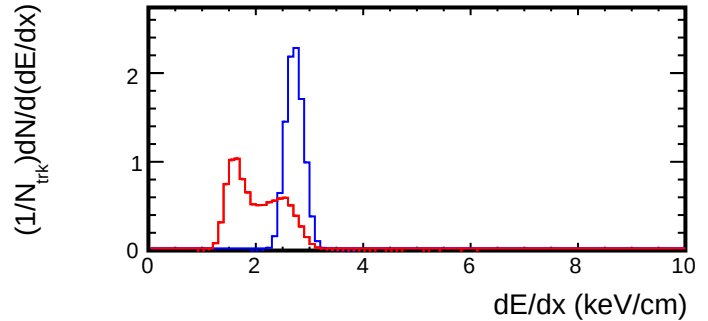
Reco p < 0.6 GeV/c



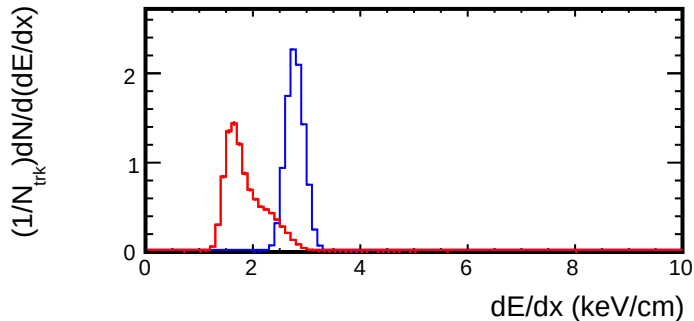
Reco p < 0.8 GeV/c



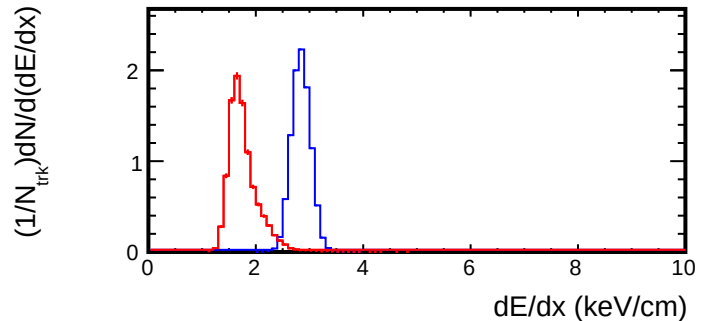
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



Reco p < 1.4 GeV/c

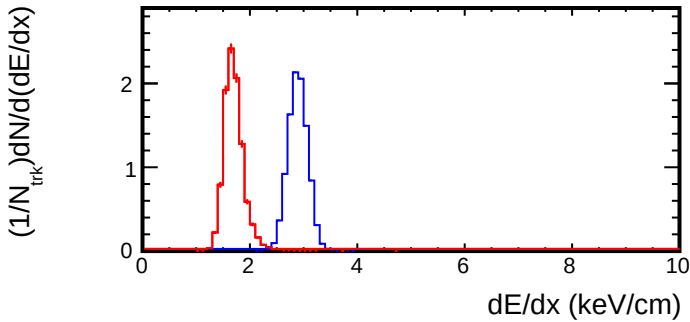


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

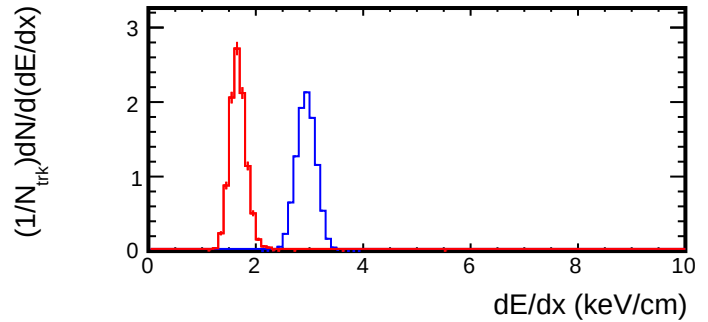
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

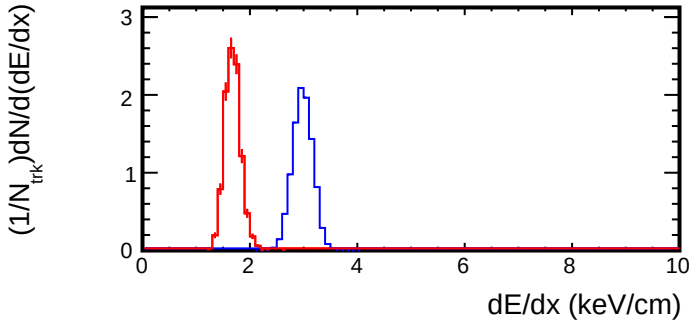
Reco p < 1.6 GeV/c



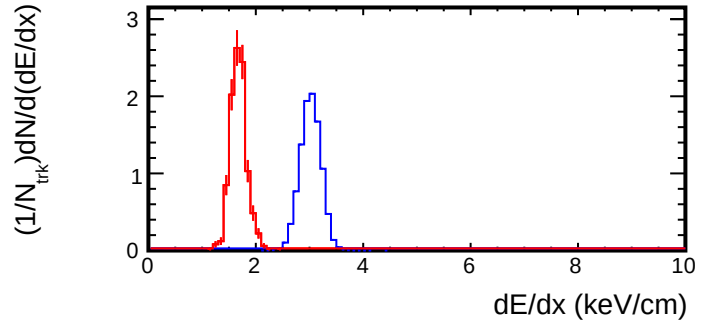
Reco p < 1.8 GeV/c



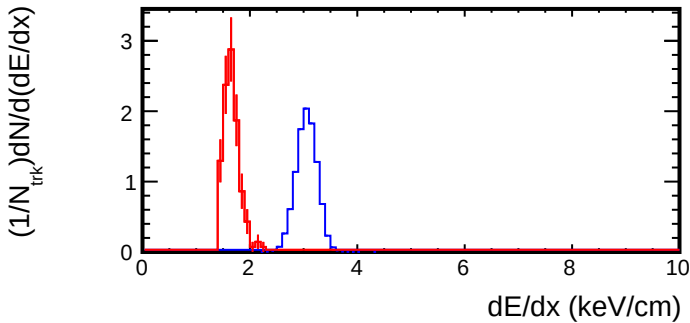
Reco p < 2.0 GeV/c



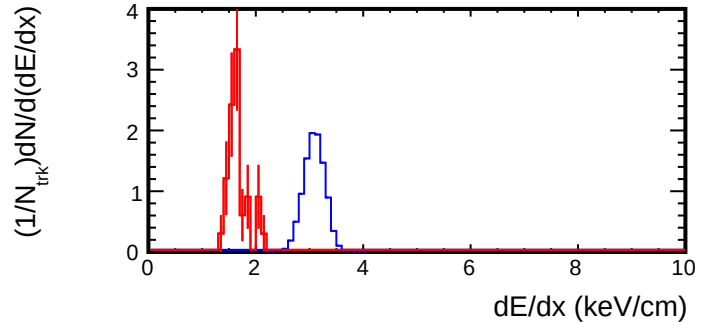
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



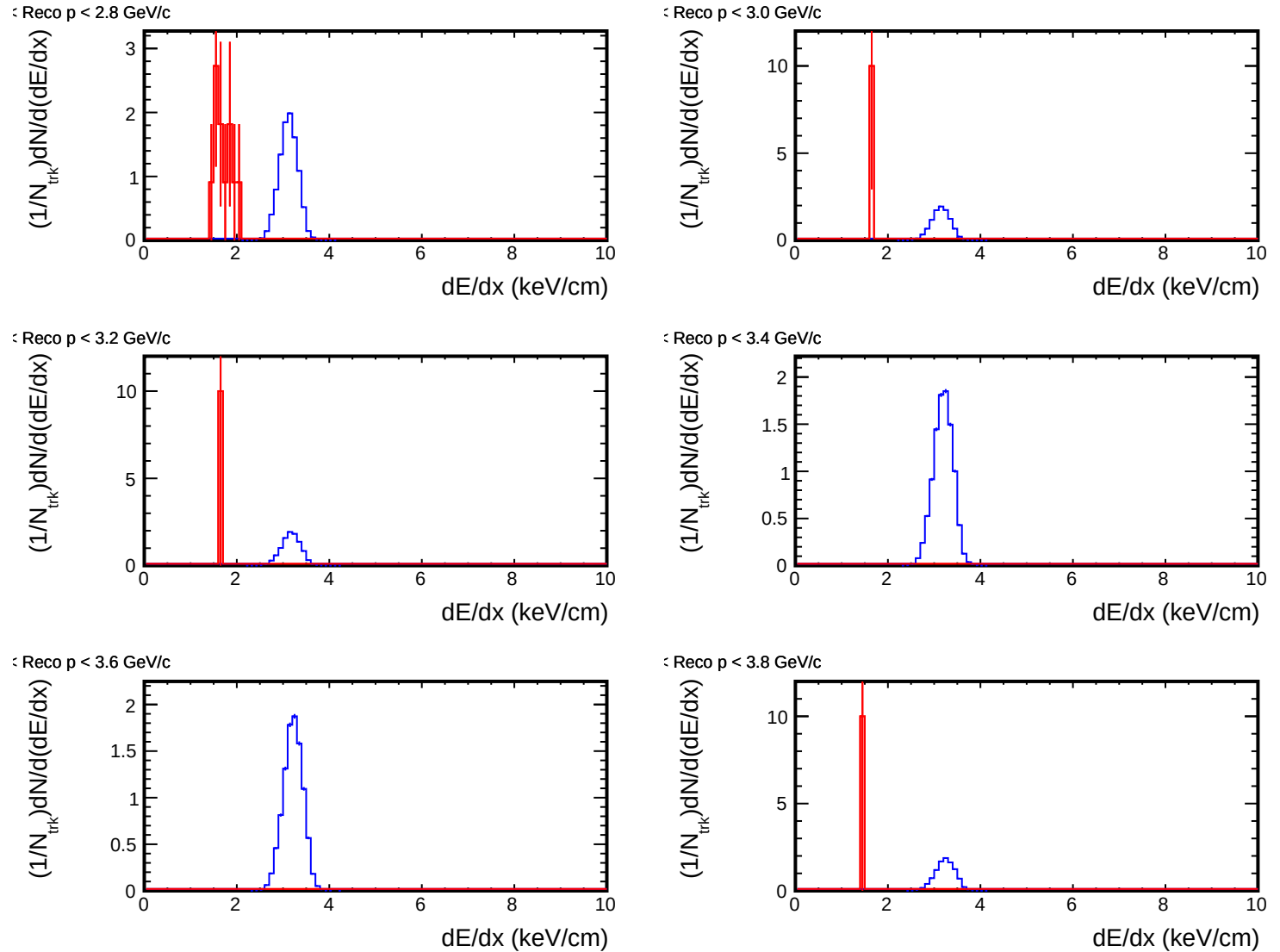
Reco p < 2.6 GeV/c



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

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

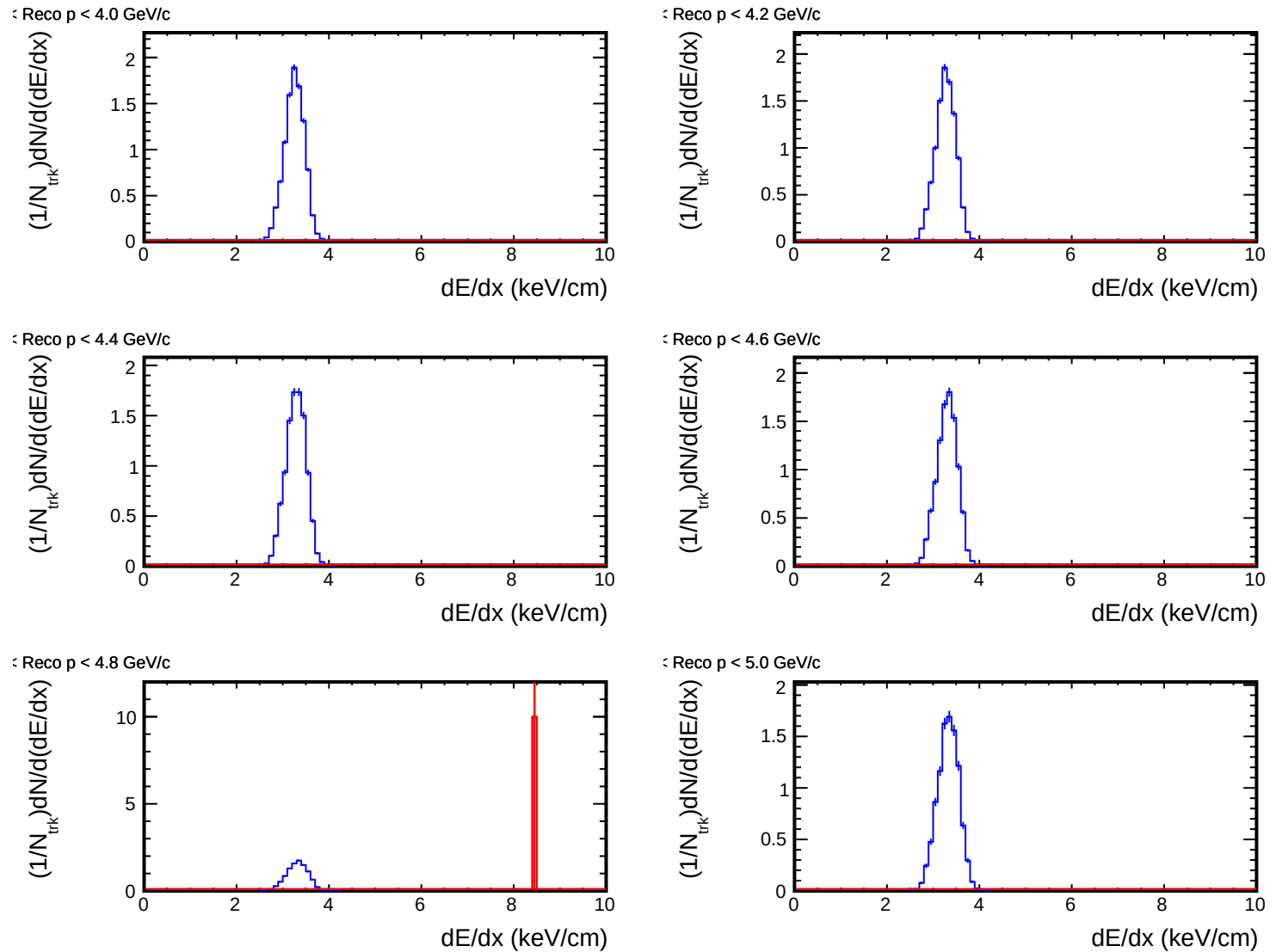
Projection of dE/dx for each p bin



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

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

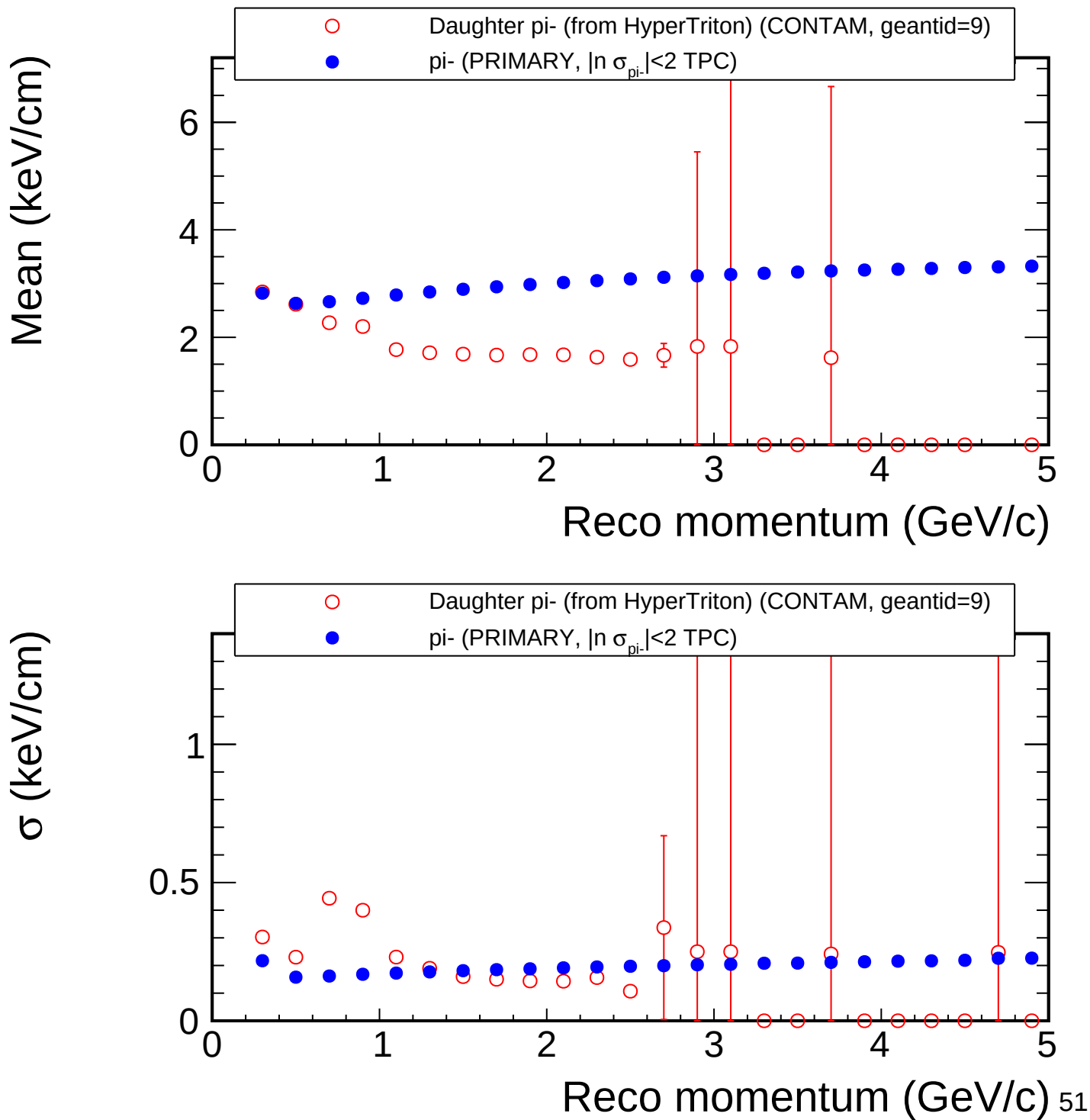
Projection of dE/dx for each p bin



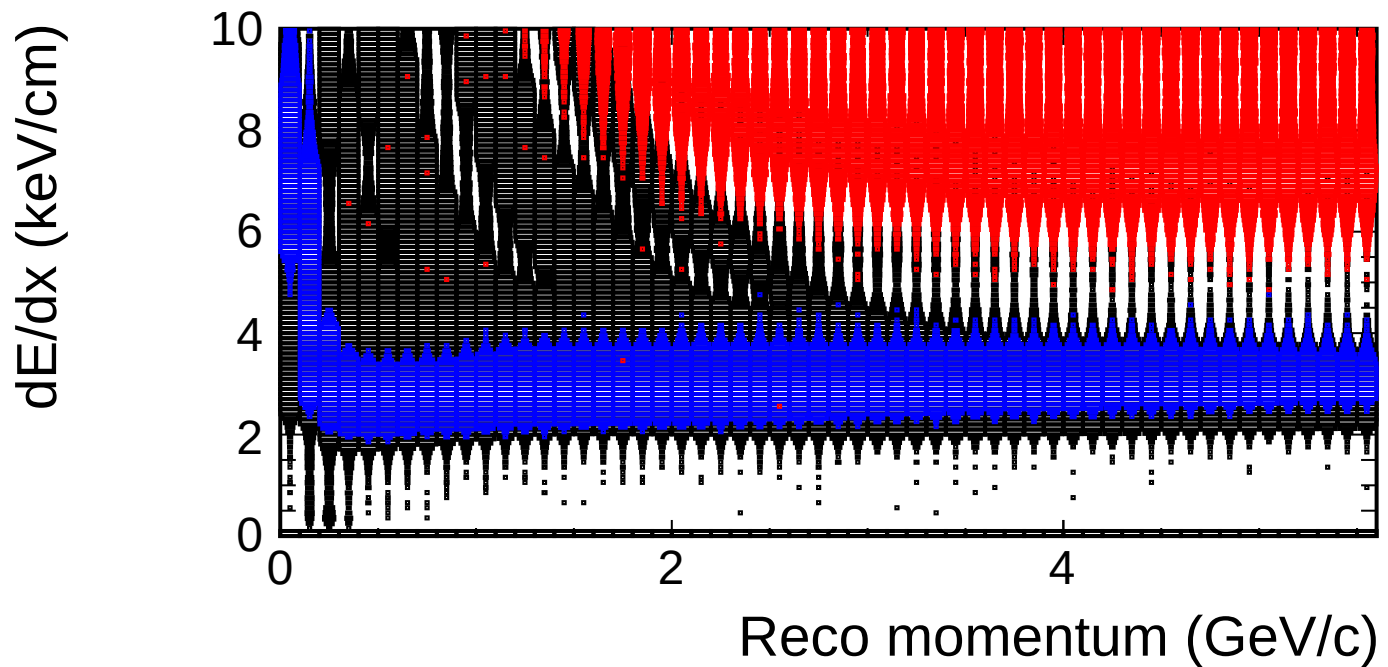
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

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

Mean/ σ of dE/dx vs momentum

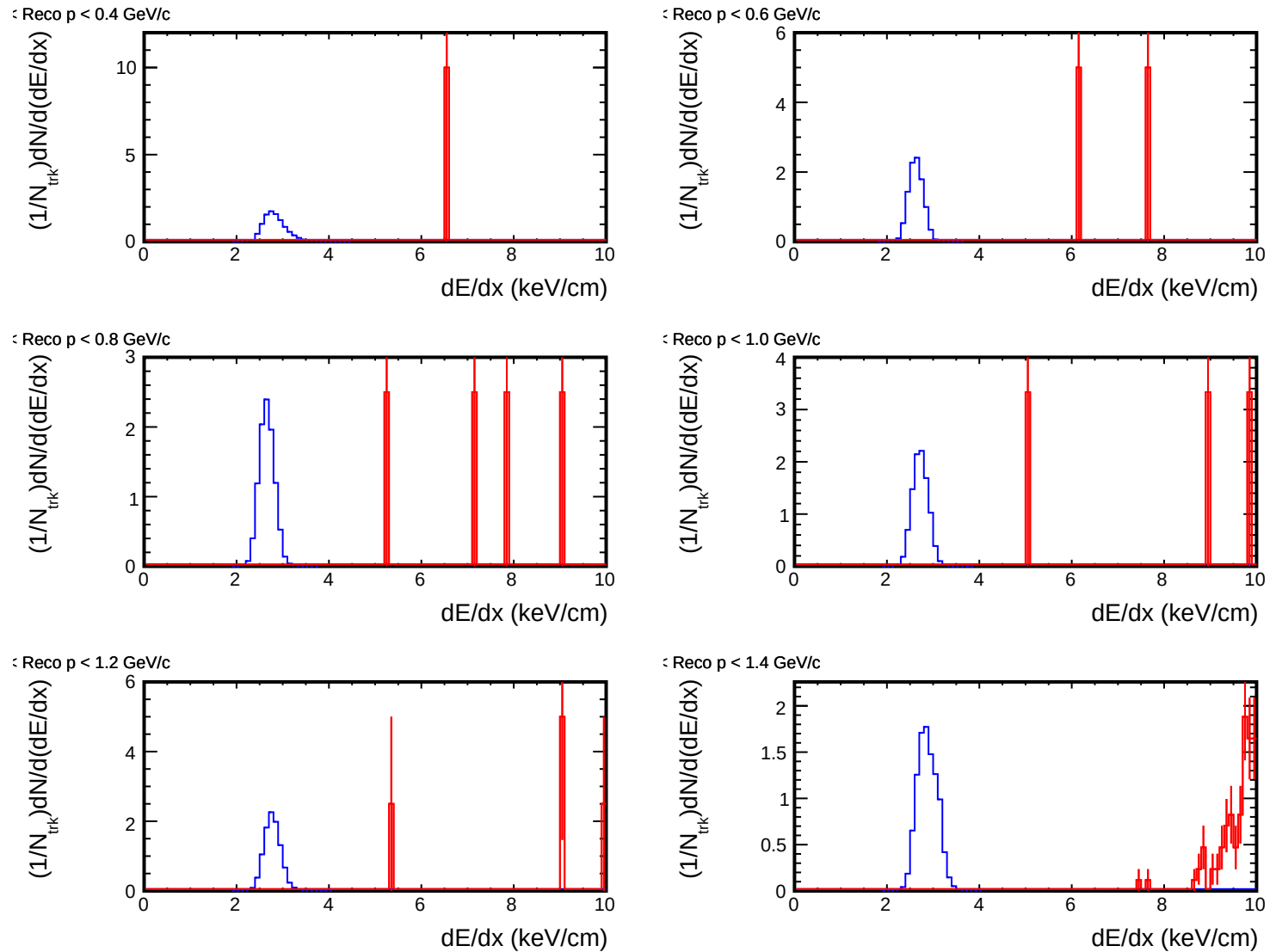


dE/dx vs momentum (Embedding:He3, Real:He3)



- Daughter He3 (from HyperTriton) (CONTAM, geantid=49)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

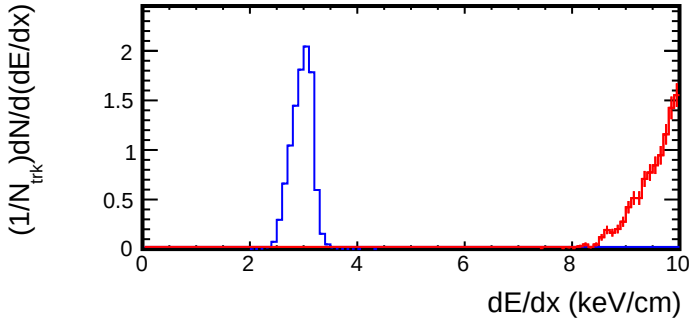


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

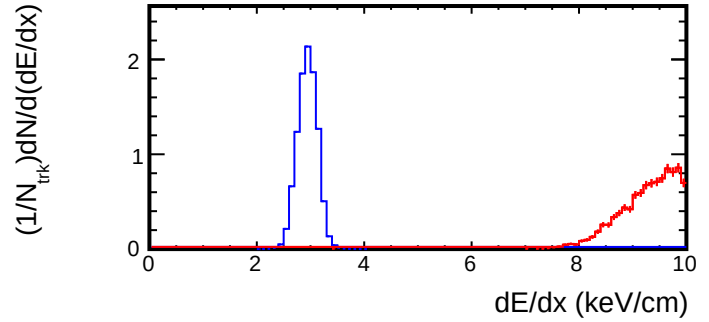
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

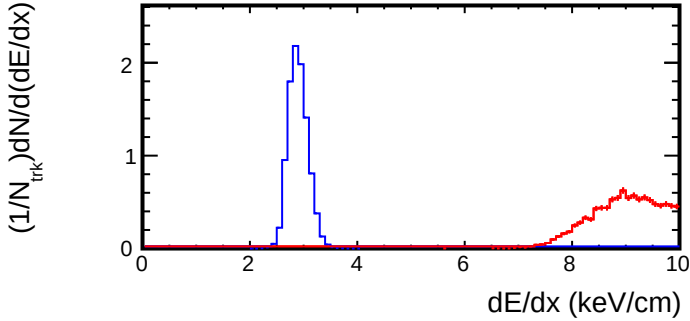
Reco p < 1.6 GeV/c



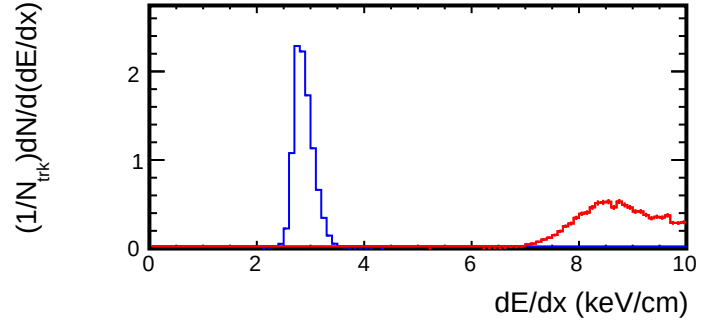
Reco p < 1.8 GeV/c



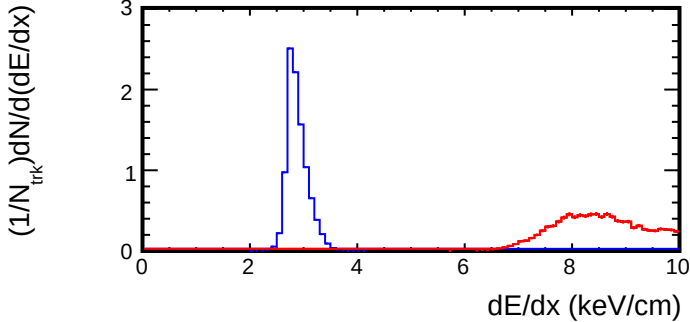
Reco p < 2.0 GeV/c



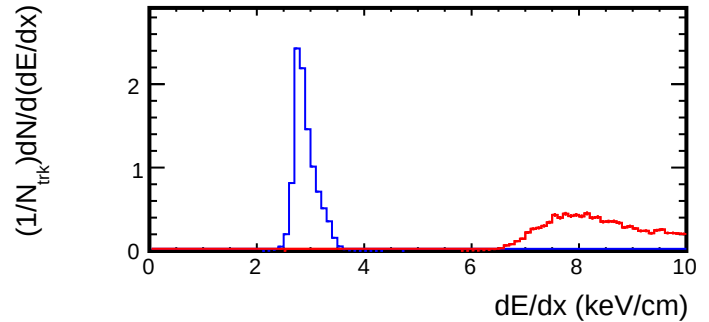
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



Reco p < 2.6 GeV/c

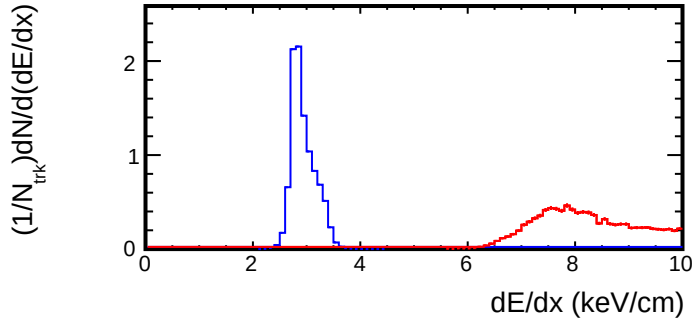


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

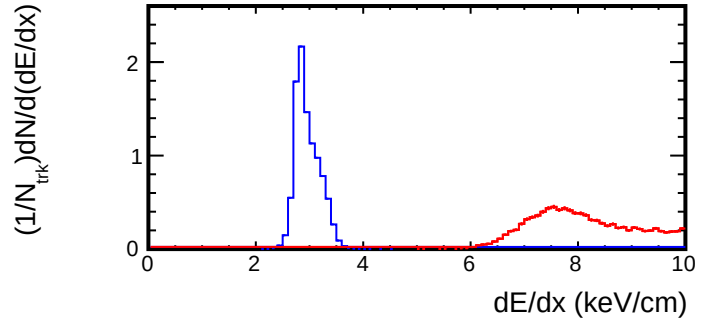
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

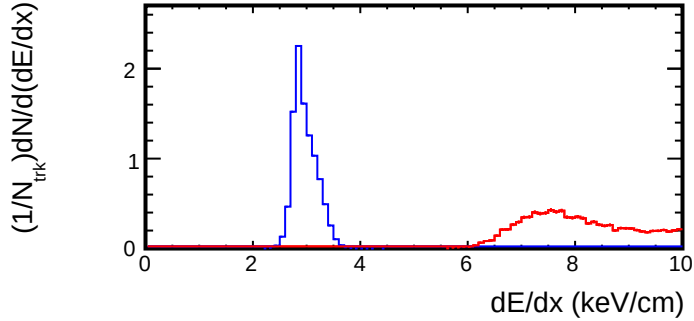
Reco p < 2.8 GeV/c



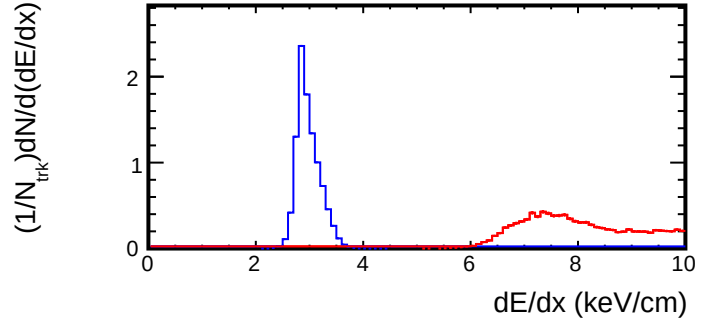
Reco p < 3.0 GeV/c



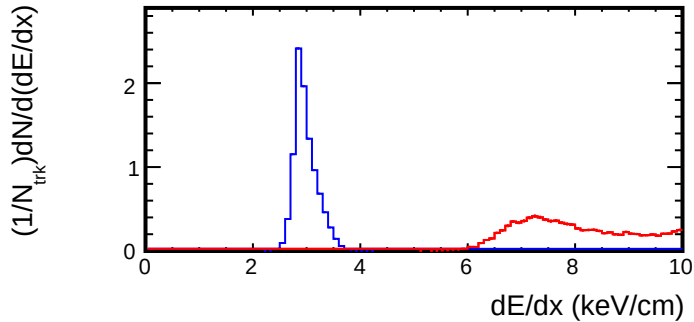
Reco p < 3.2 GeV/c



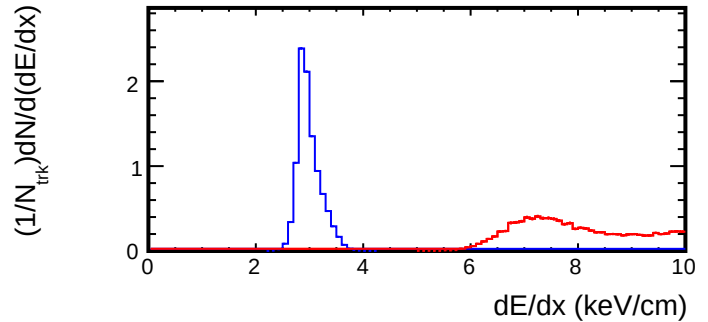
Reco p < 3.4 GeV/c



Reco p < 3.6 GeV/c



Reco p < 3.8 GeV/c

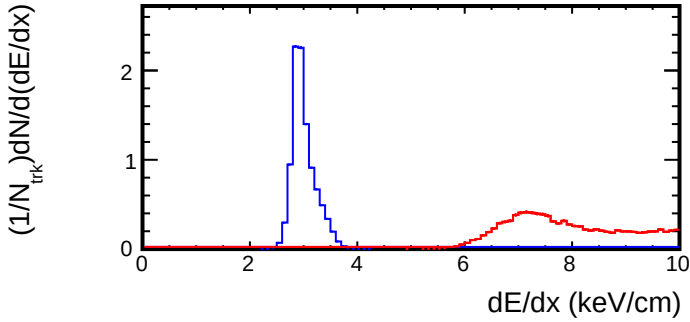


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

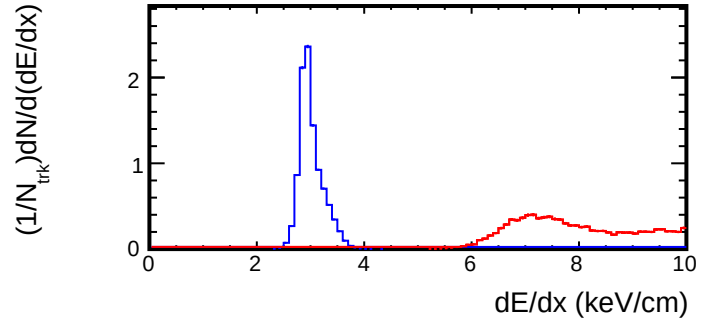
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

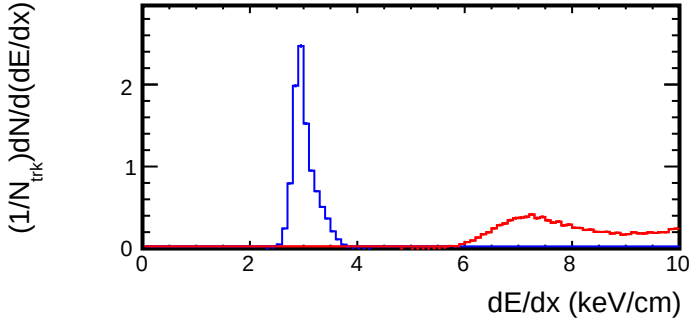
Reco p < 4.0 GeV/c



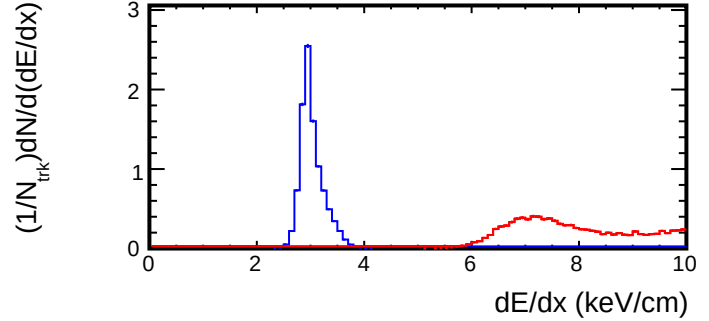
Reco p < 4.2 GeV/c



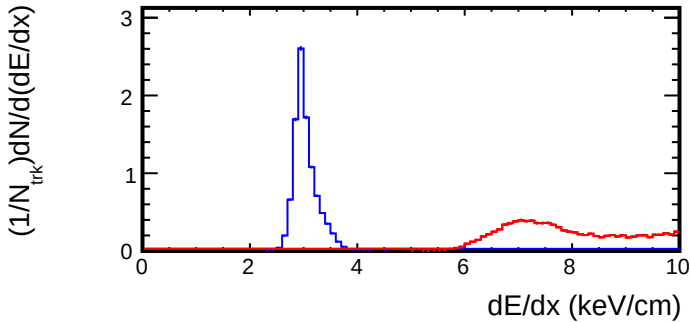
Reco p < 4.4 GeV/c



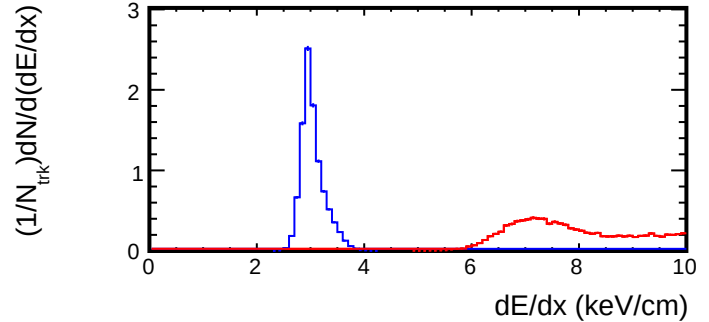
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c



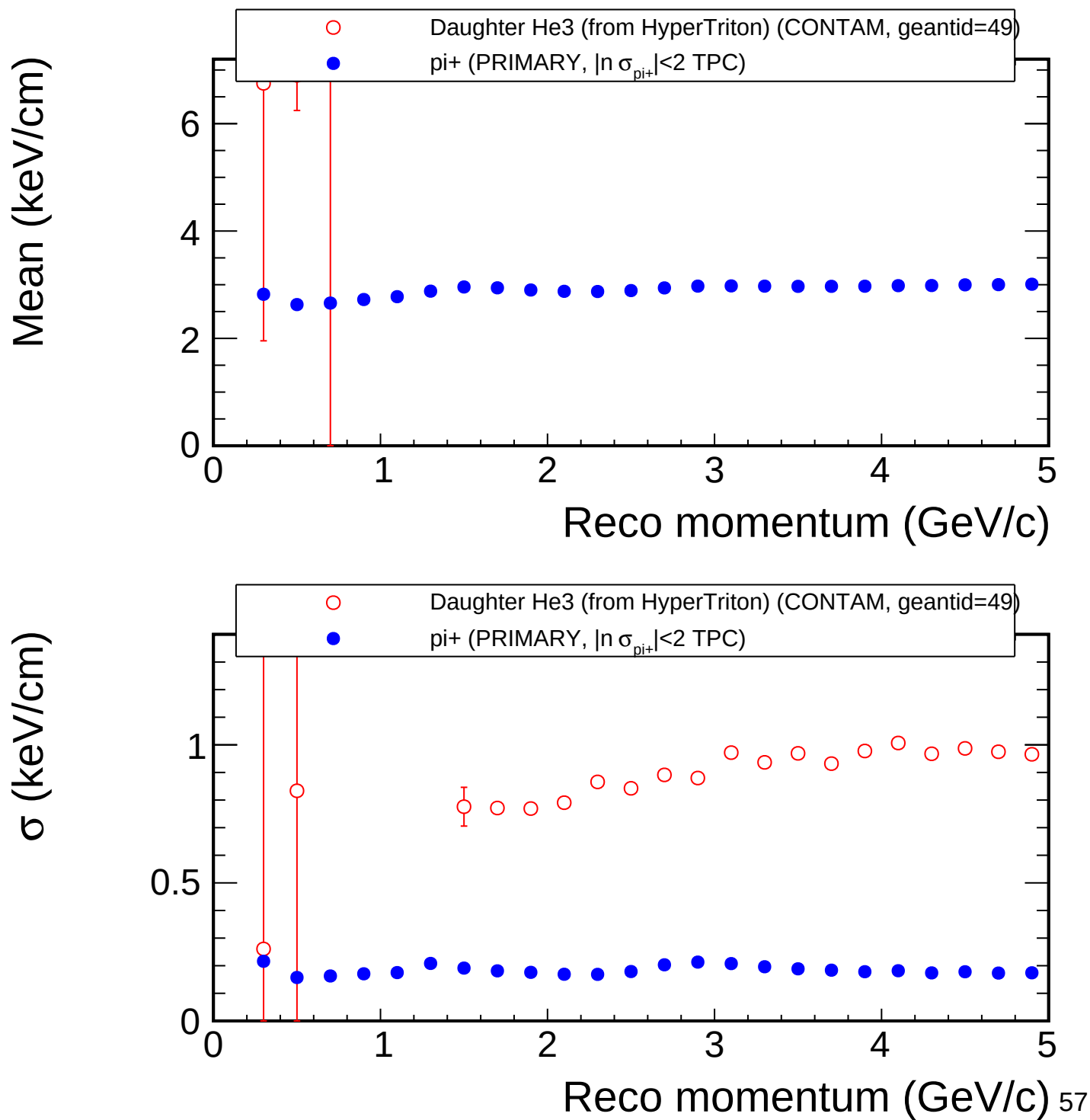
Reco p < 5.0 GeV/c



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

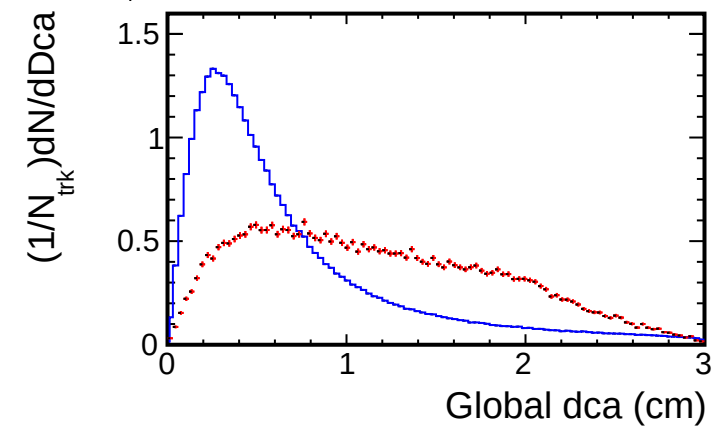
— pi+
(PRIMARY, $|n \sigma_{\text{pi}^+}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum

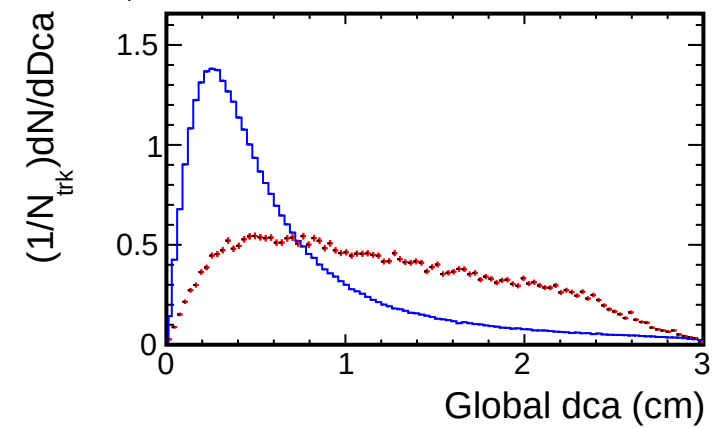


Dca distribution for (p_T , η) slices

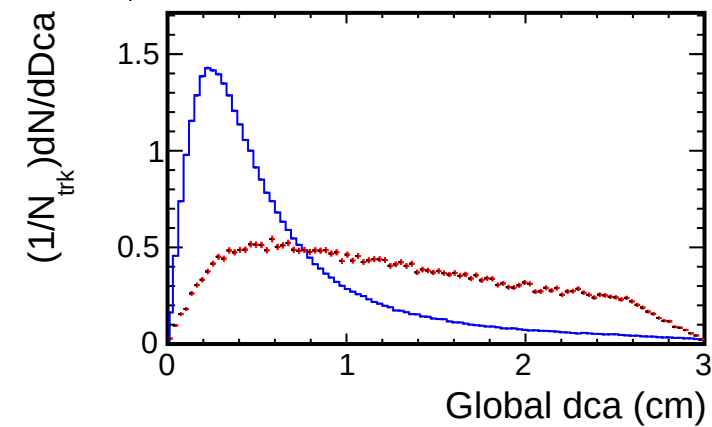
1.8, $0.1 < p_T < 0.5$ (GeV/c)



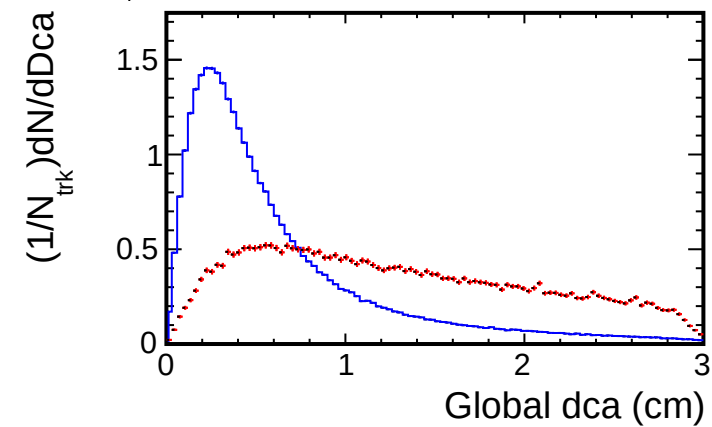
1.6, $0.1 < p_T < 0.5$ (GeV/c)



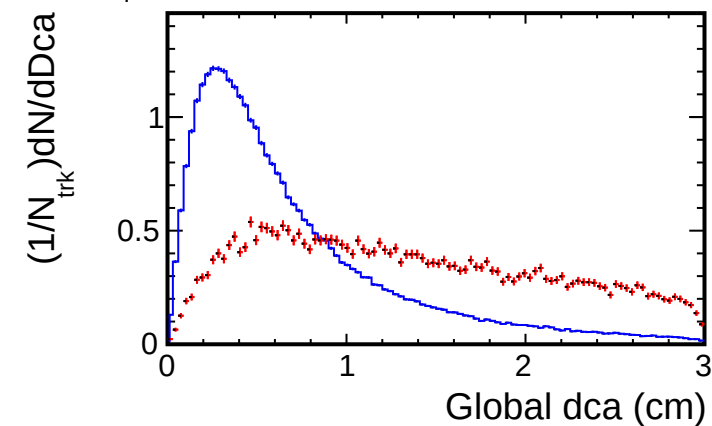
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



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

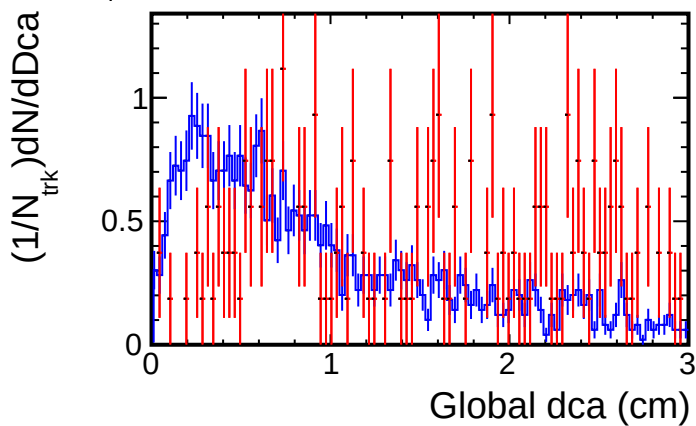


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

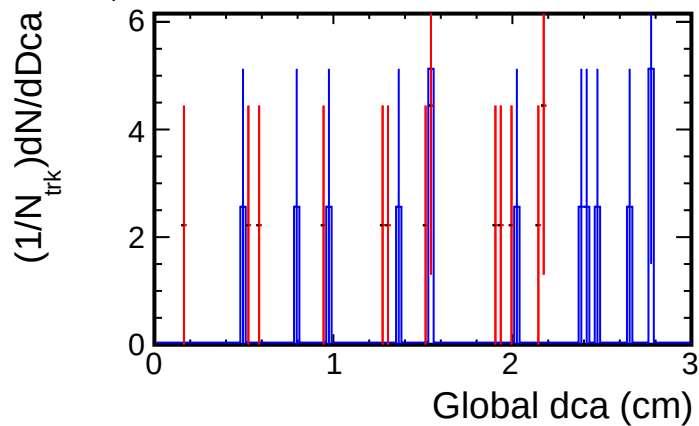
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

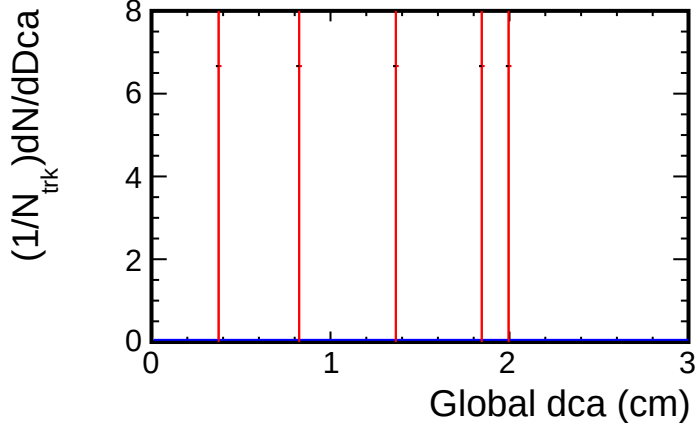
2, $0.1 < p_T < 0.5$ (GeV/c)



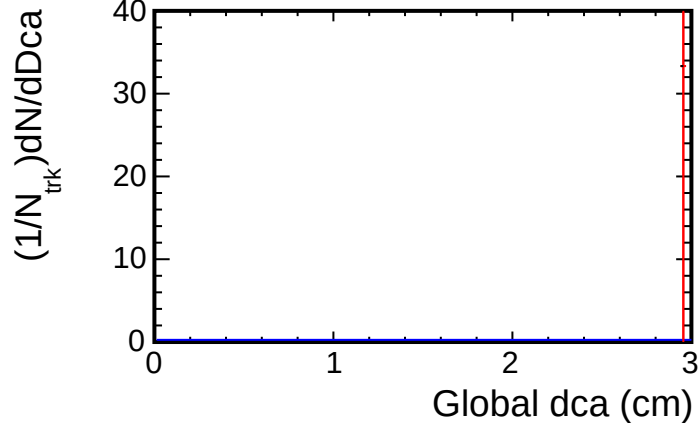
4, $0.1 < p_T < 0.5$ (GeV/c)



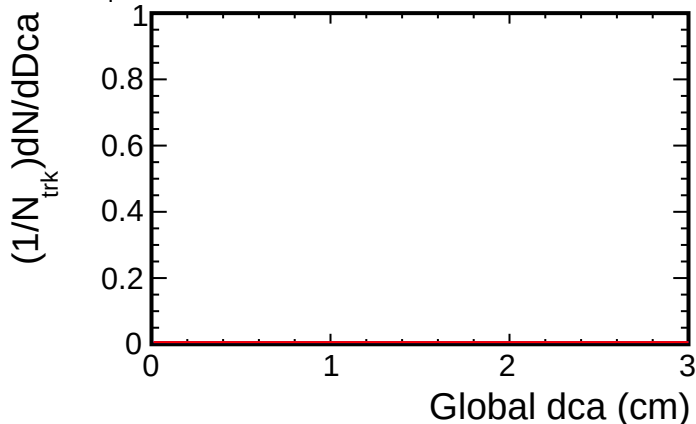
6, $0.1 < p_T < 0.5$ (GeV/c)



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



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

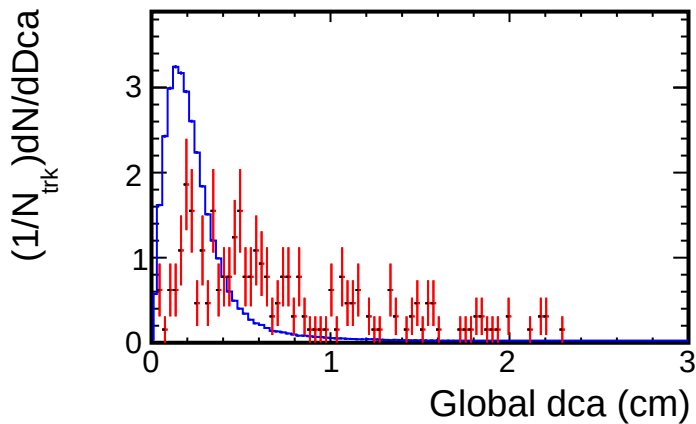


— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

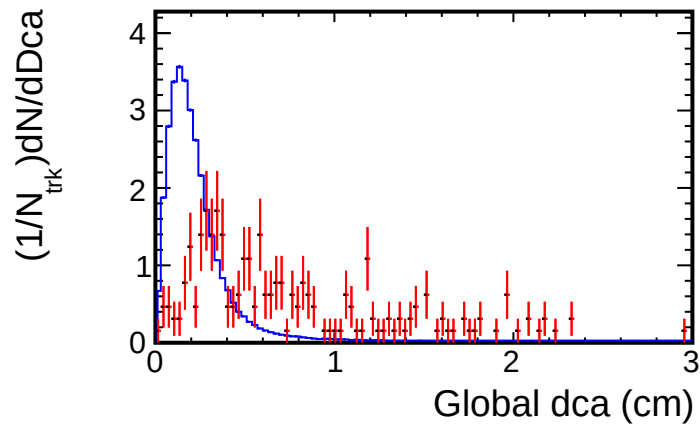
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

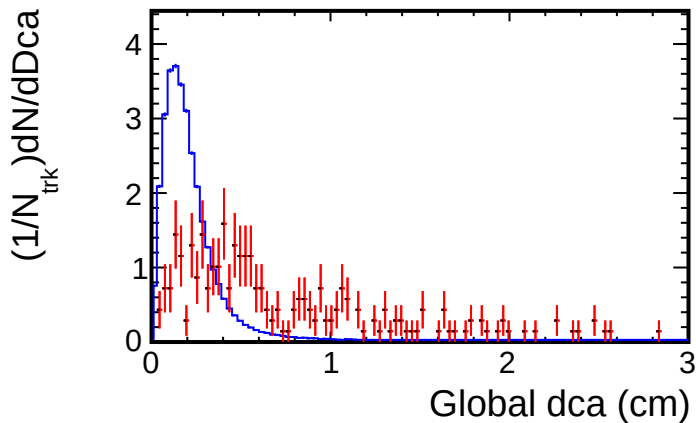
1.8, $0.5 < p_T < 1.0$ (GeV/c)



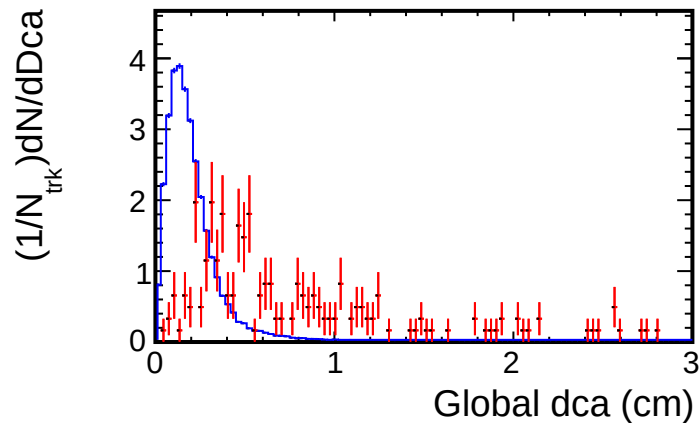
1.6, $0.5 < p_T < 1.0$ (GeV/c)



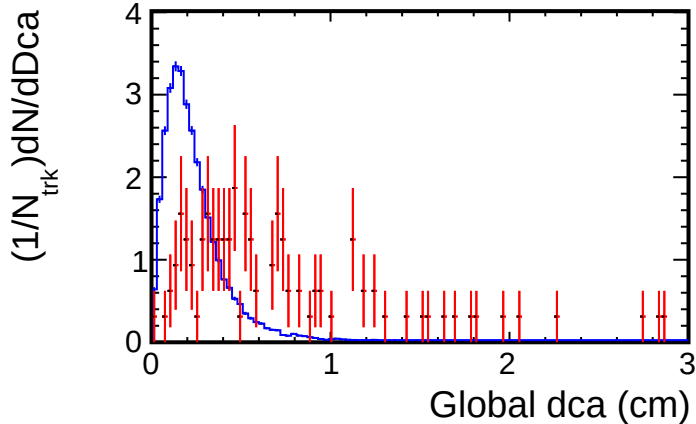
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



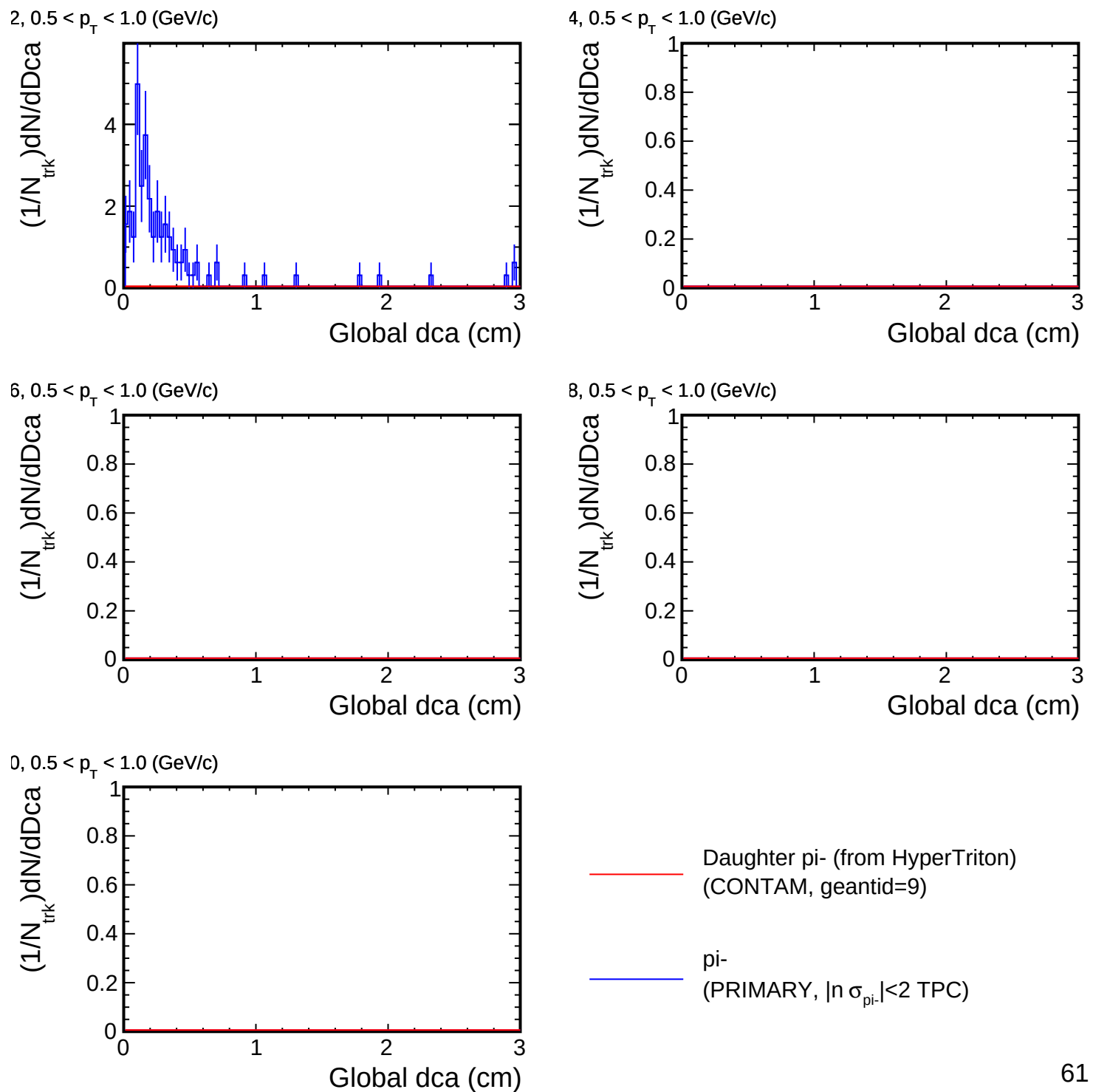
1.0, $0.5 < p_T < 1.0$ (GeV/c)



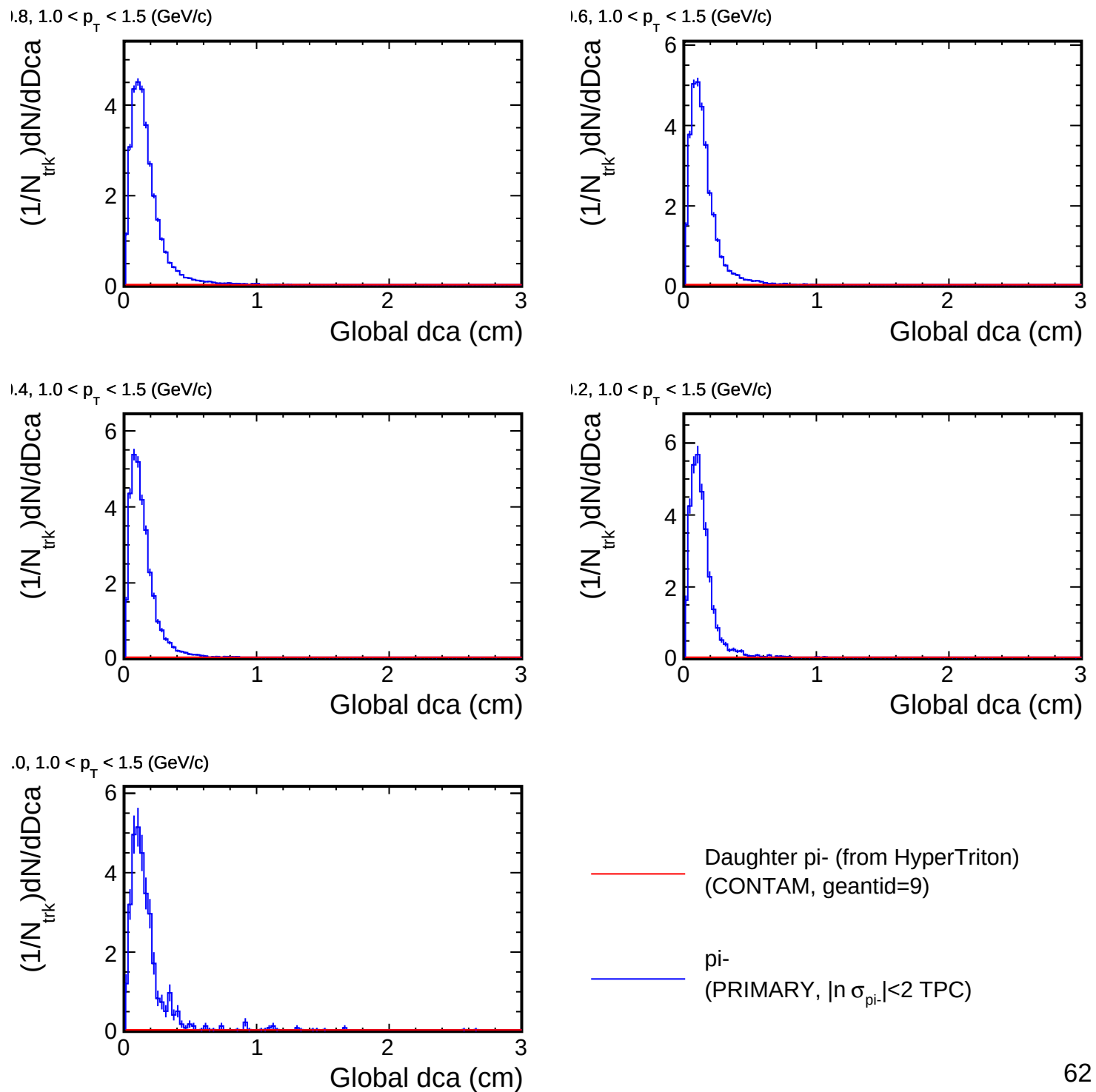
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

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

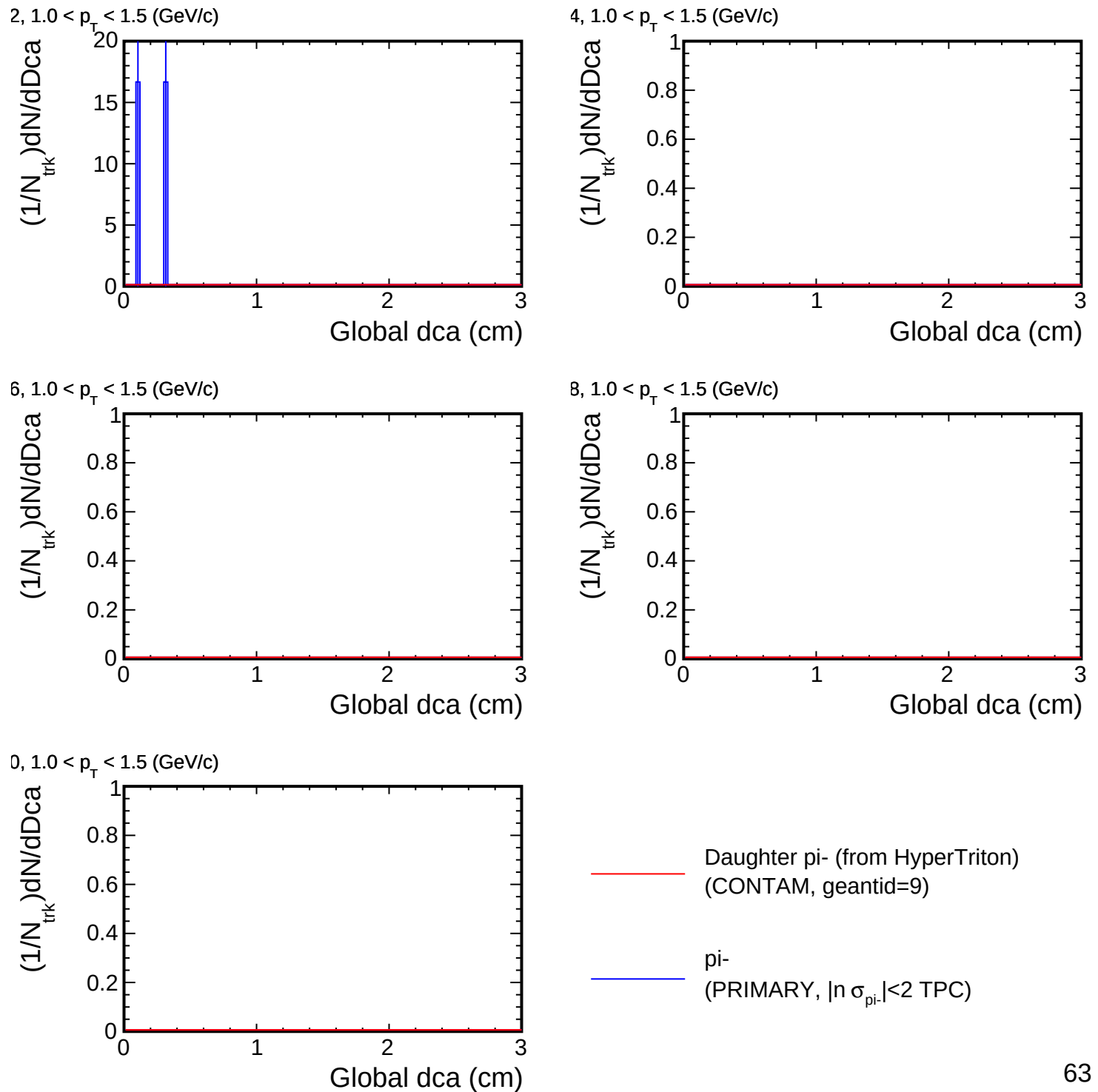
Dca distribution for (p_T , η) slices



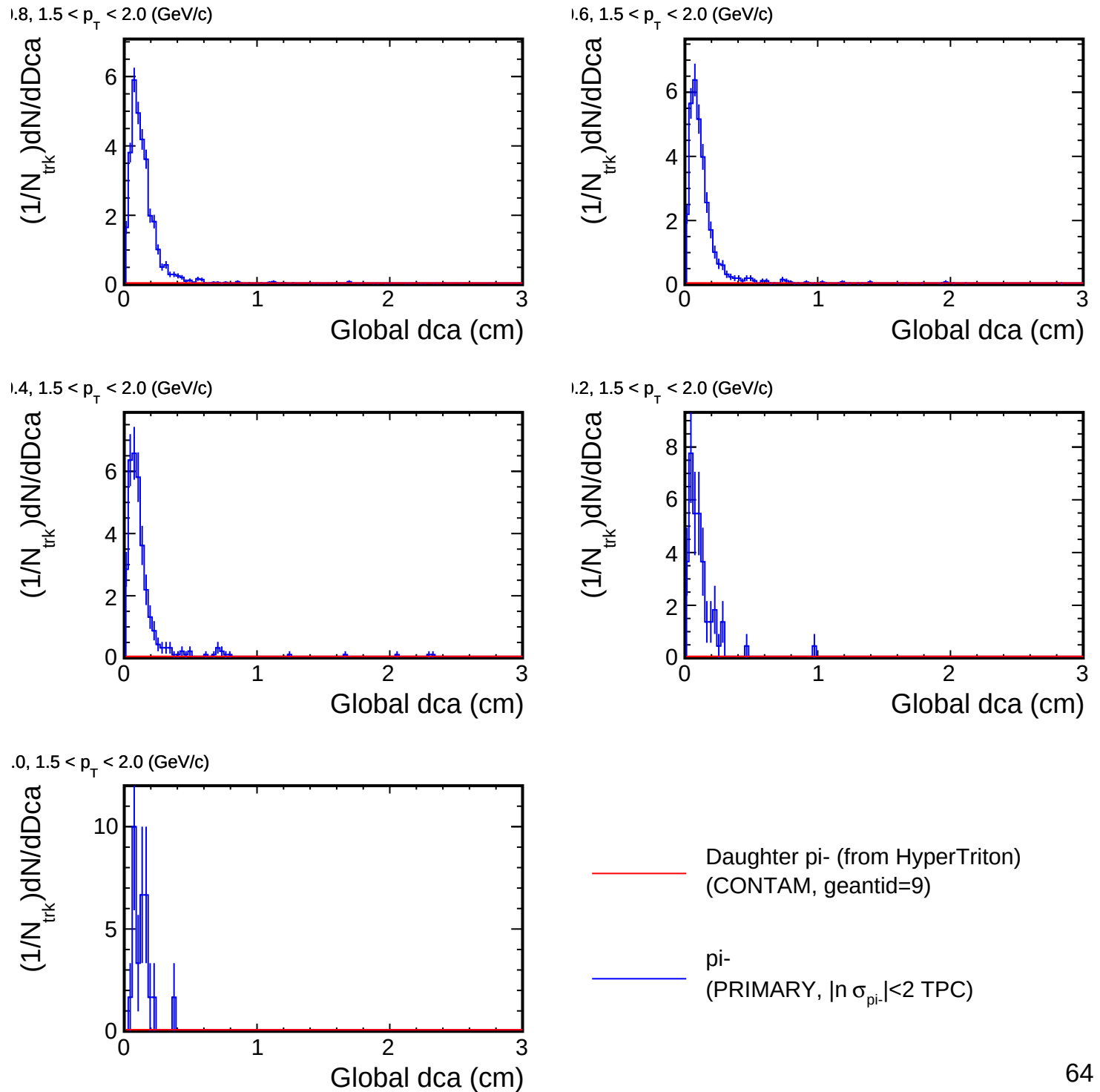
Dca distribution for (p_T , η) slices



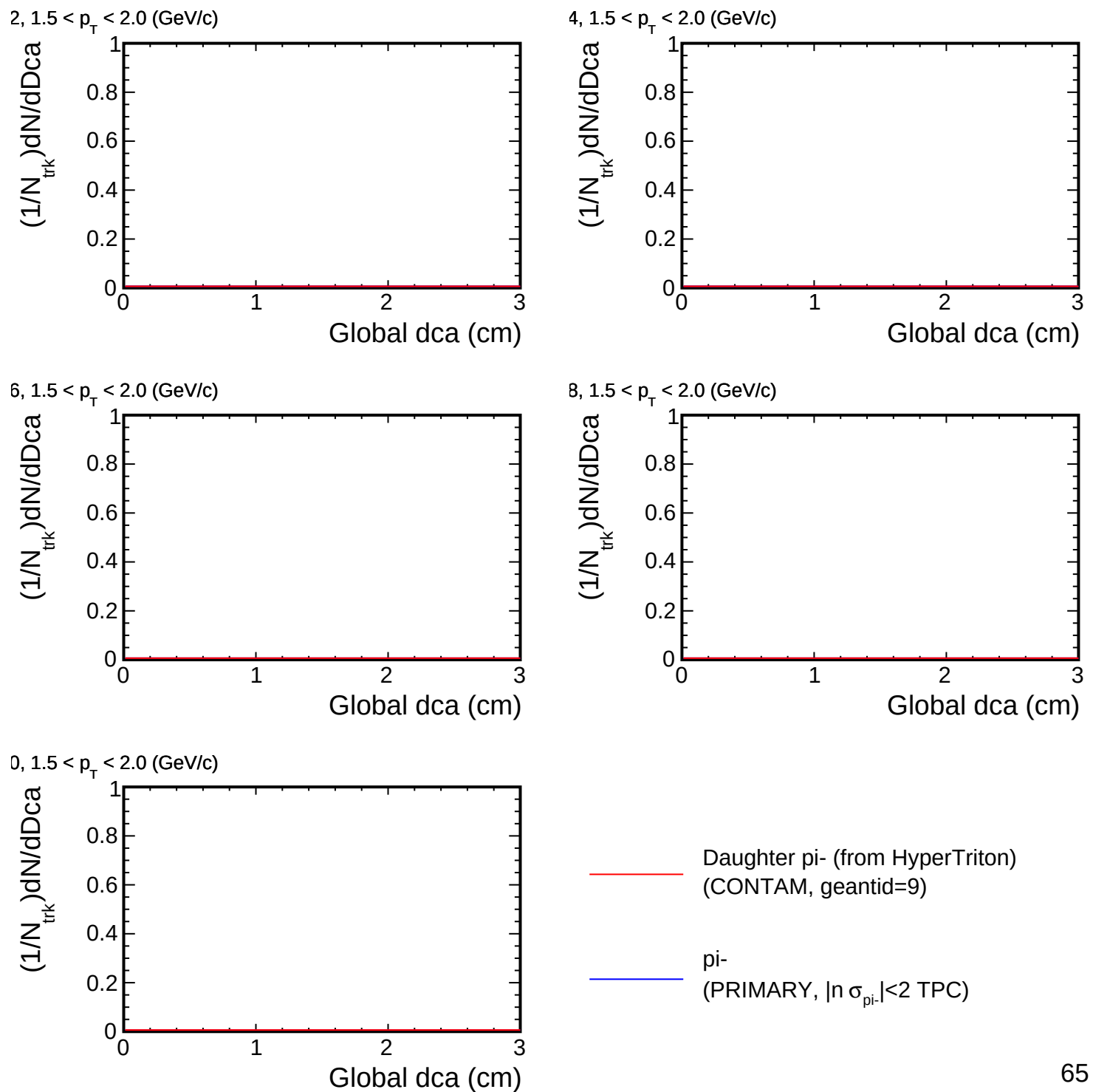
Dca distribution for (p_T , η) slices



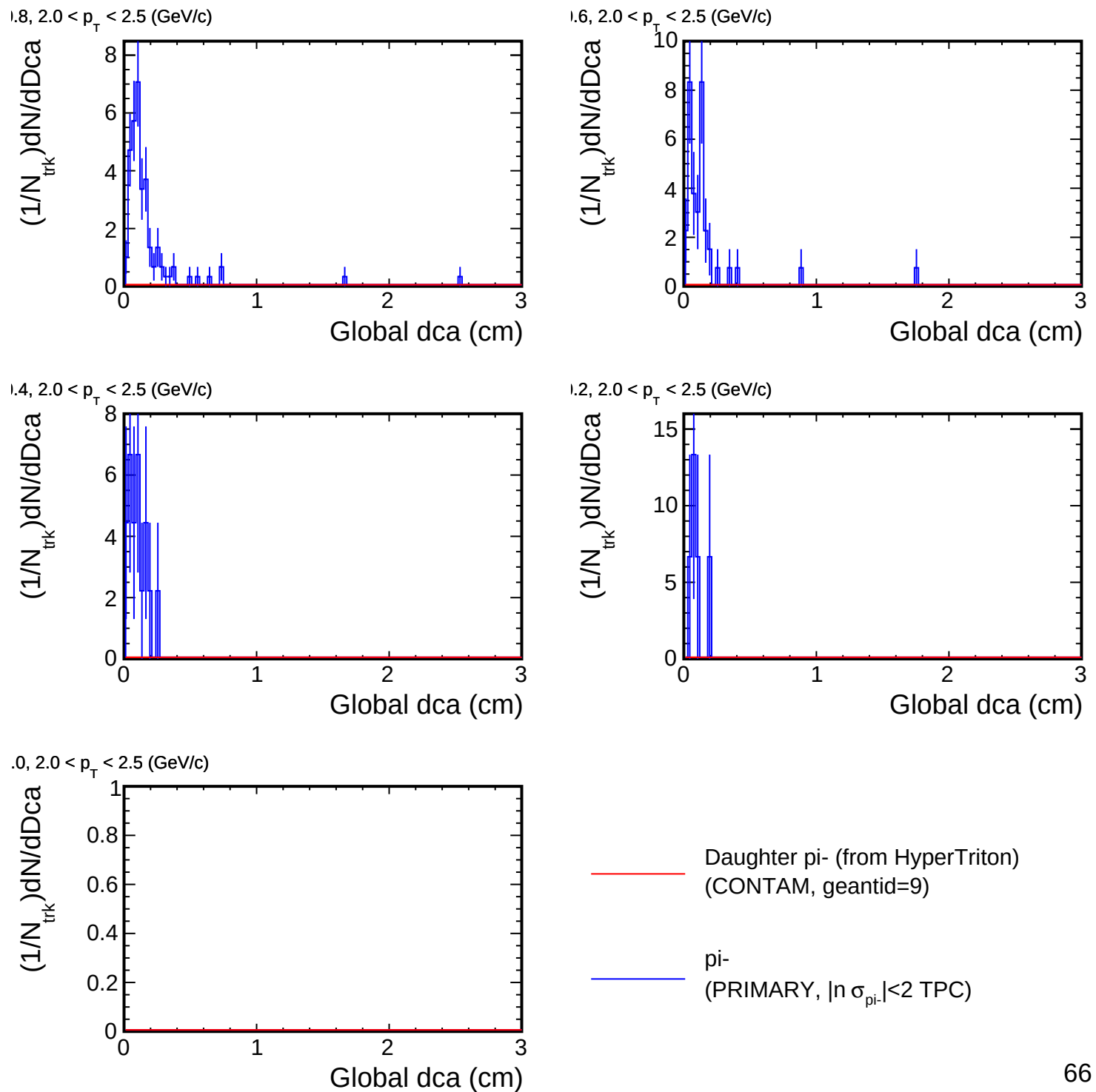
Dca distribution for (p_T , η) slices



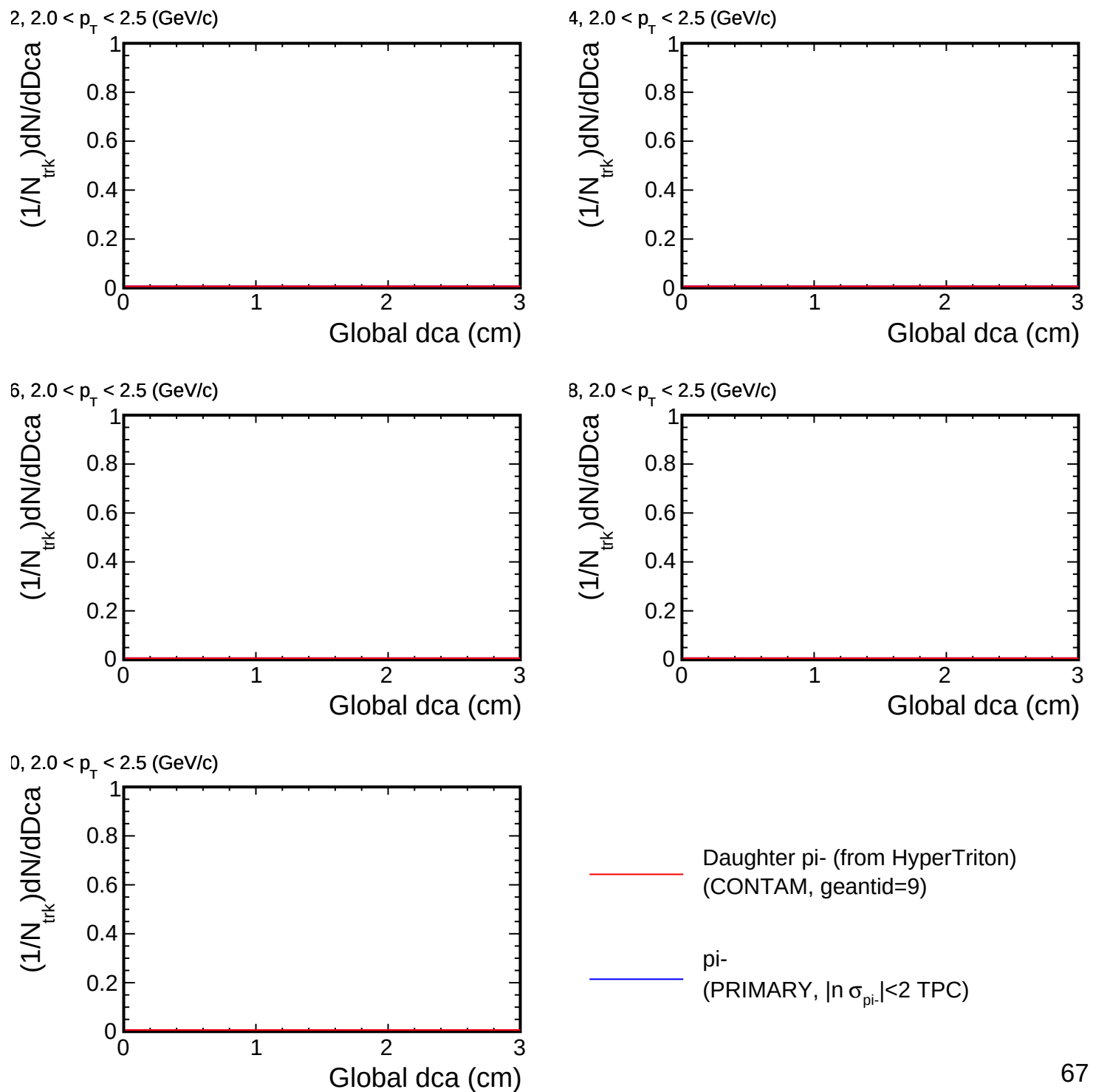
Dca distribution for (p_T , η) slices



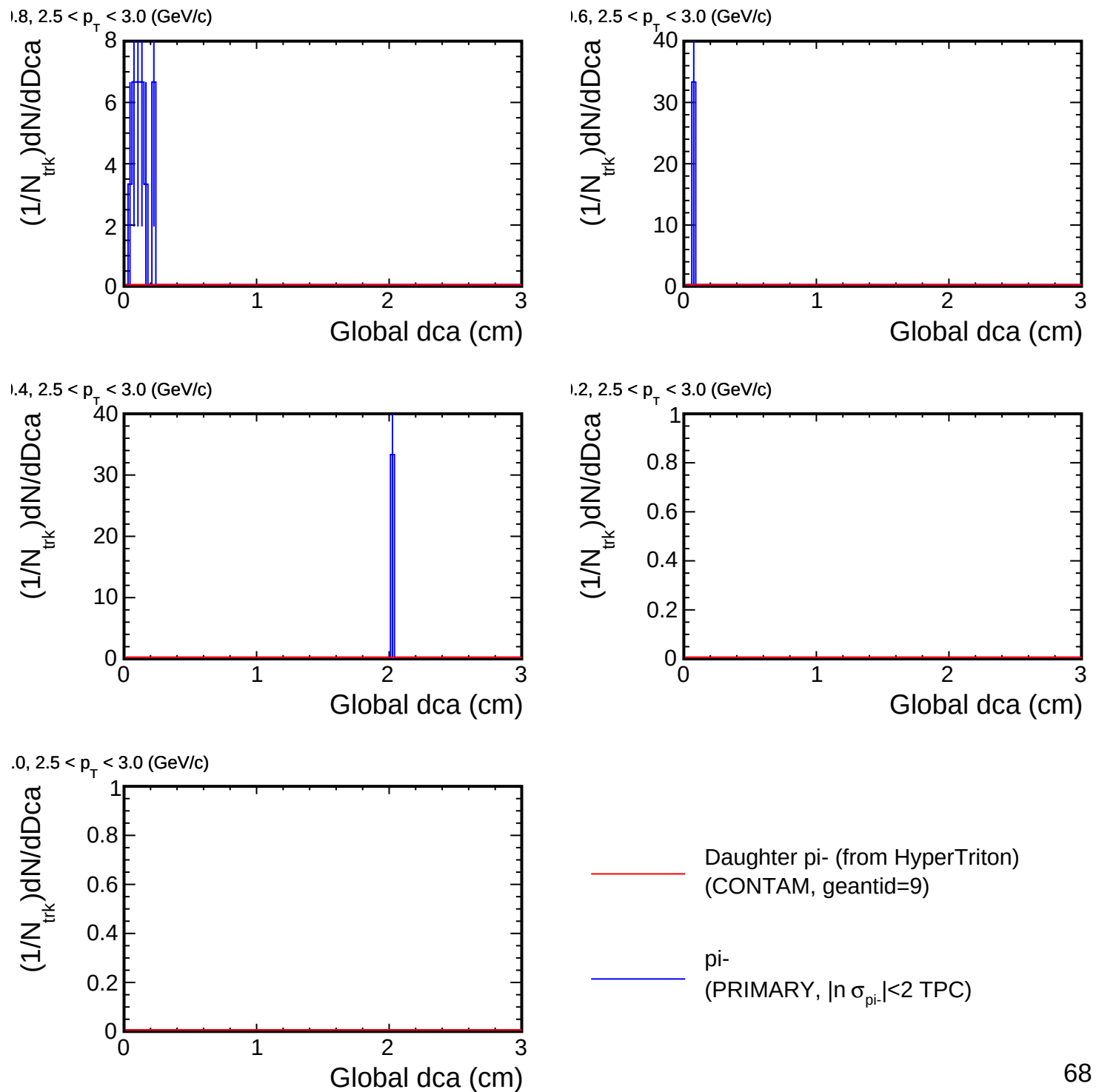
Dca distribution for (p_T , η) slices



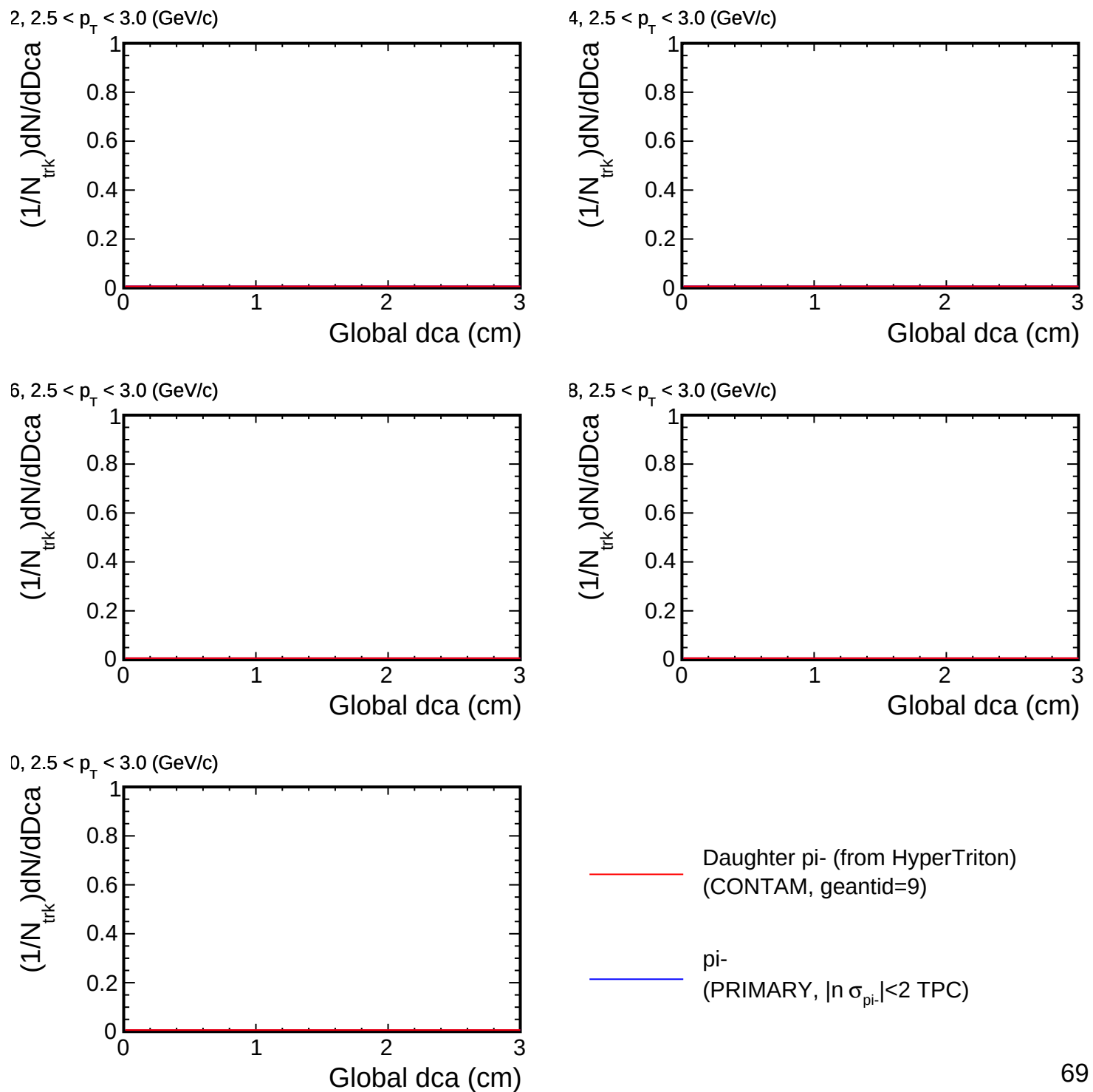
Dca distribution for (p_T , η) slices



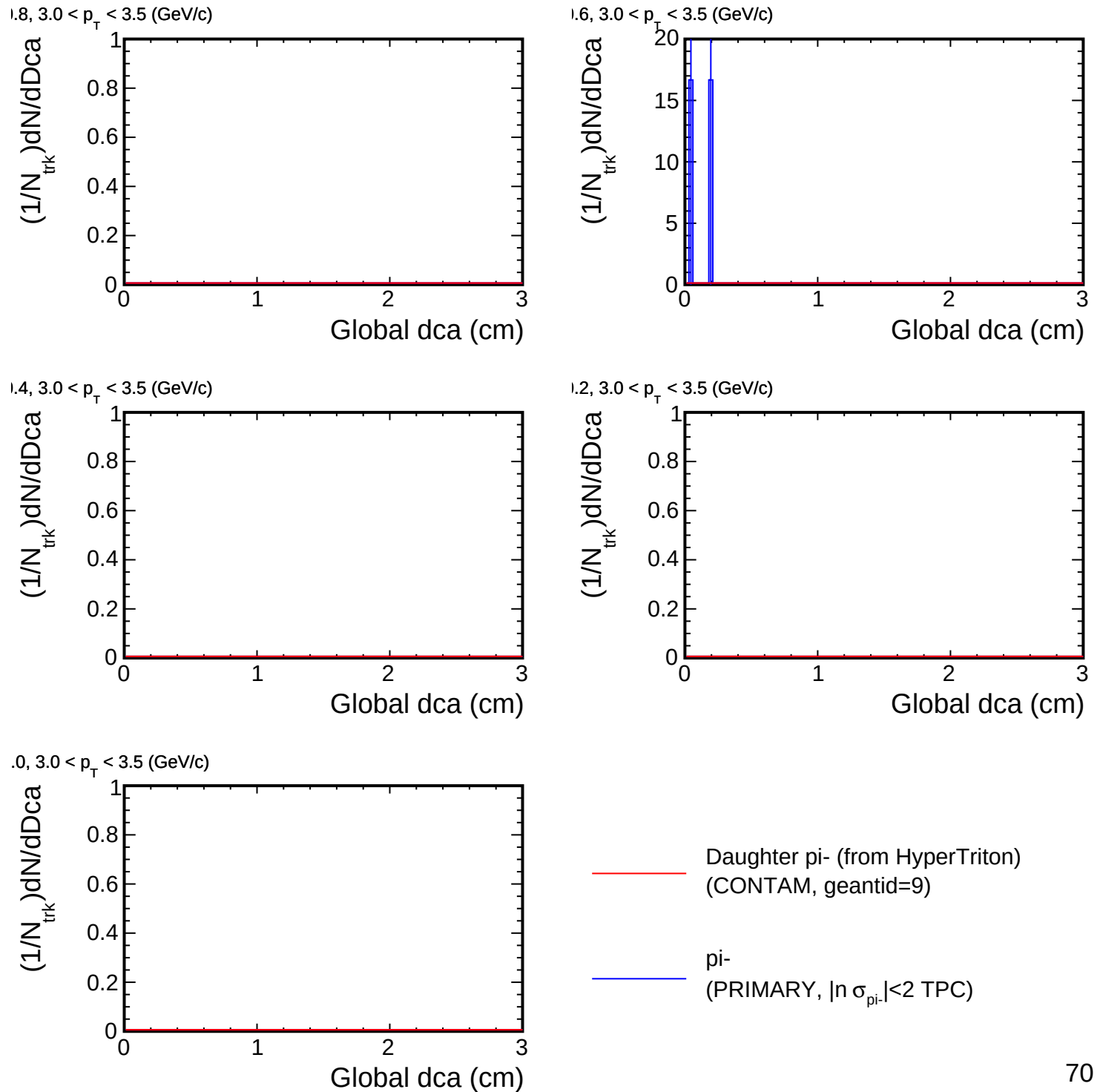
Dca distribution for (p_T , η) slices



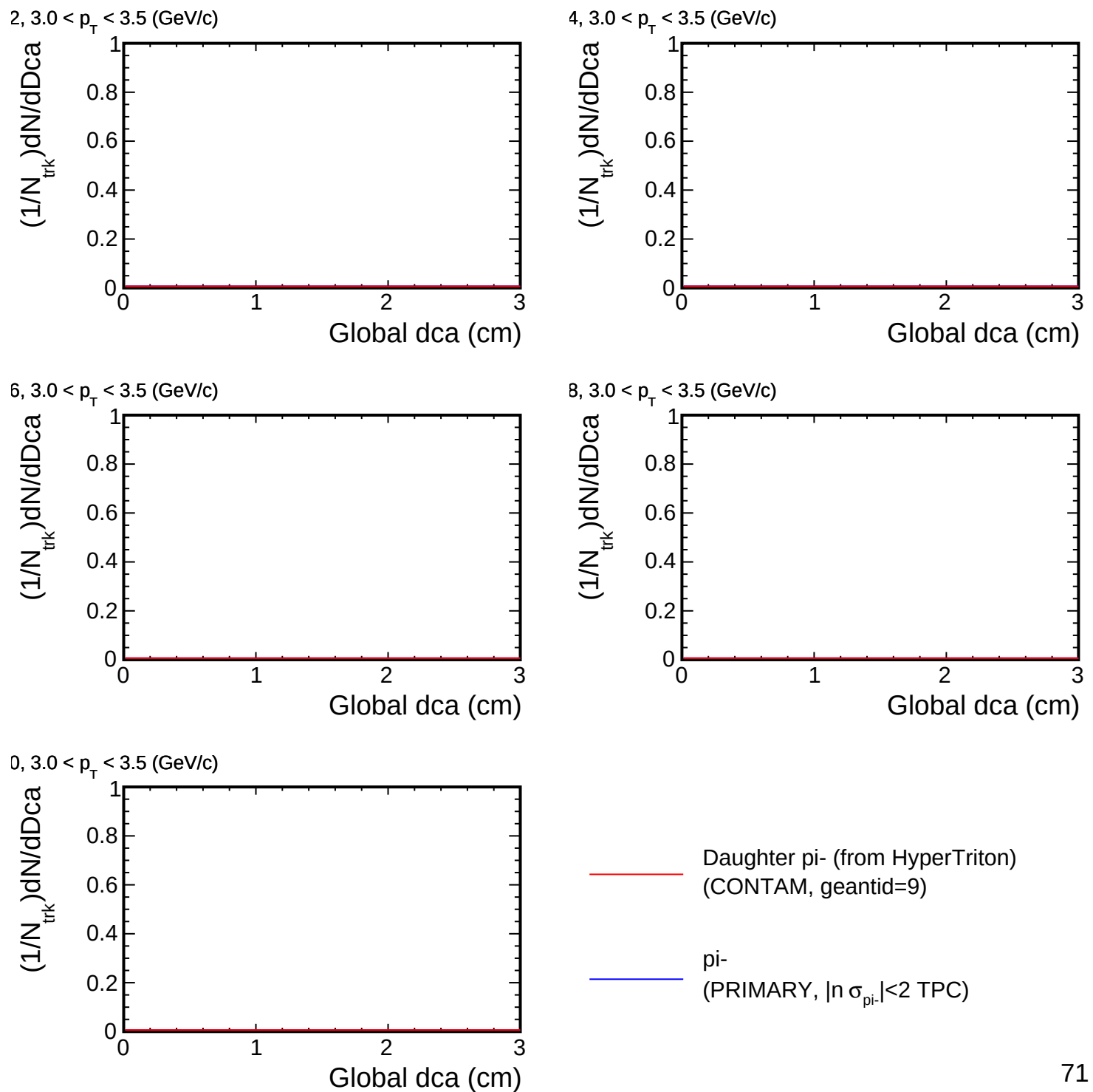
Dca distribution for (p_T , η) slices



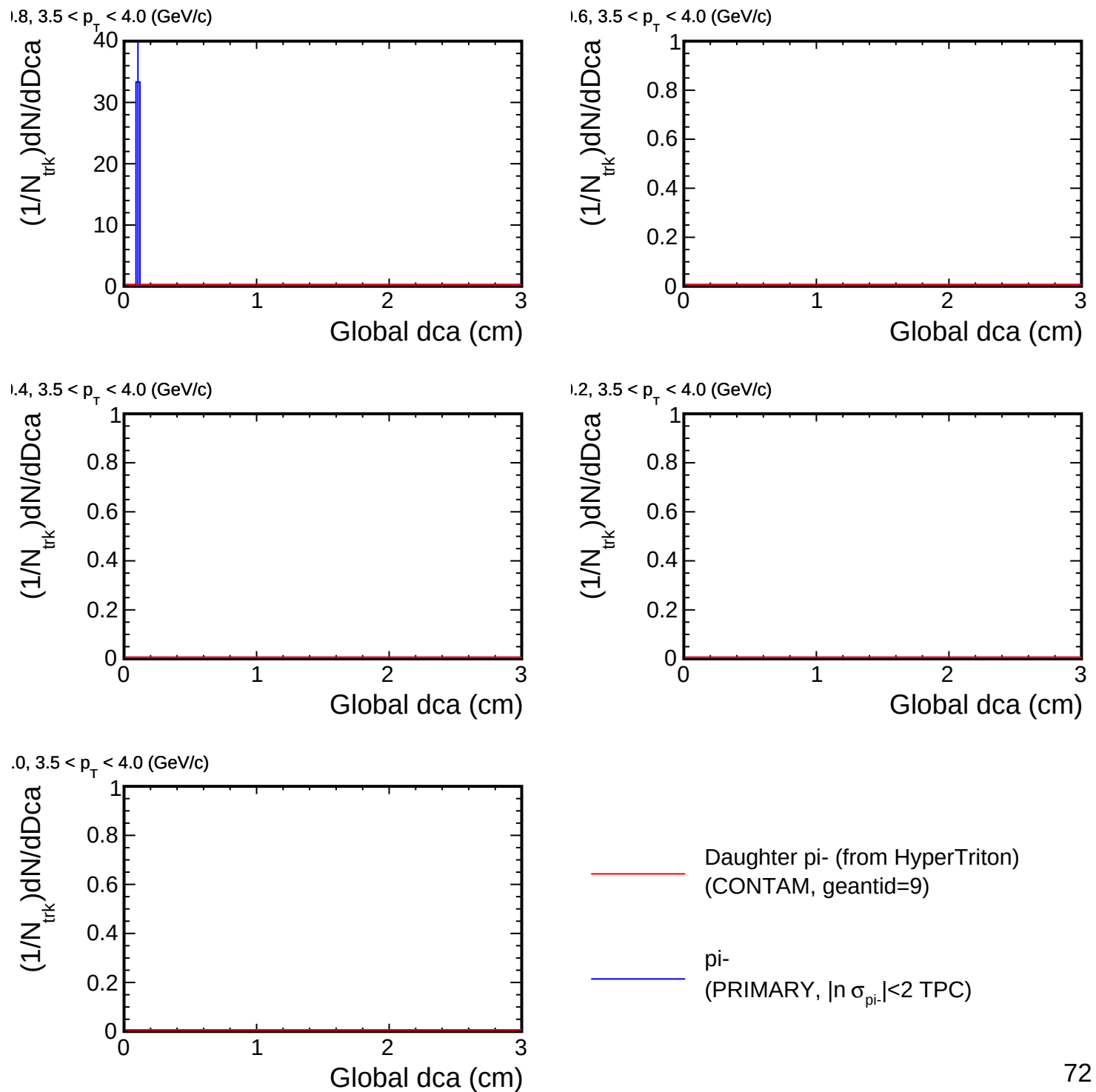
Dca distribution for (p_T , η) slices



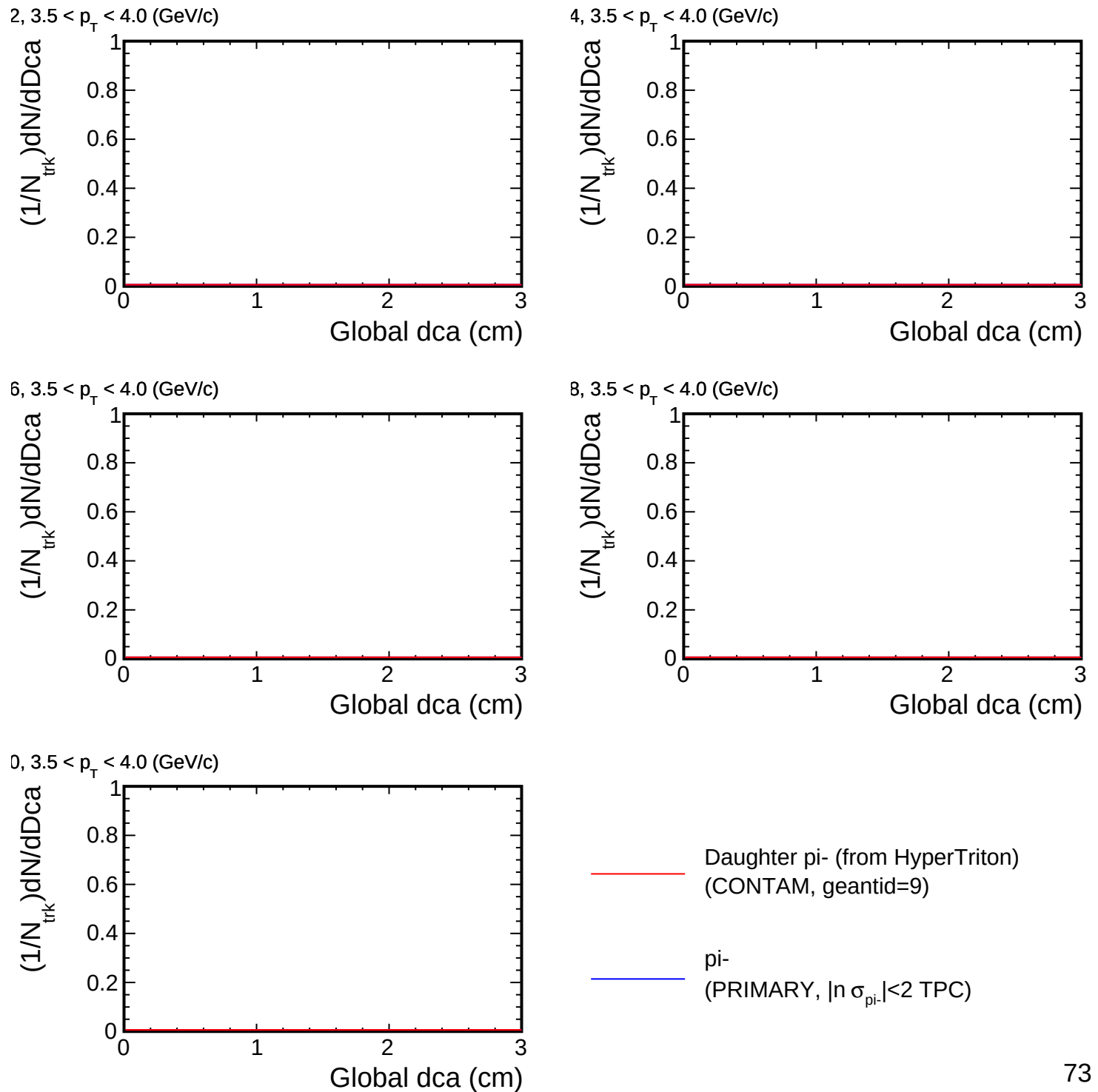
Dca distribution for (p_T , η) slices



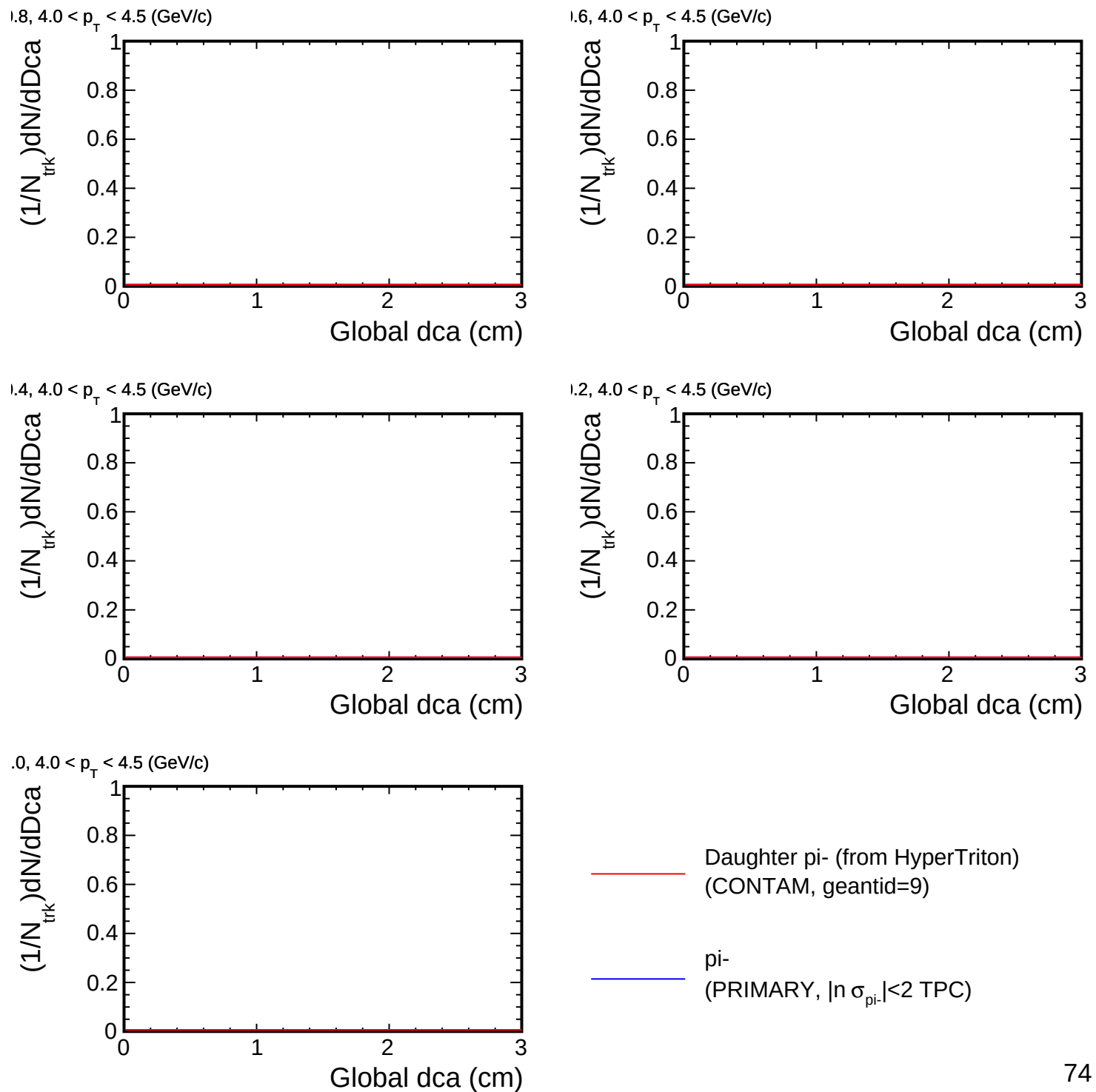
Dca distribution for (p_T , η) slices



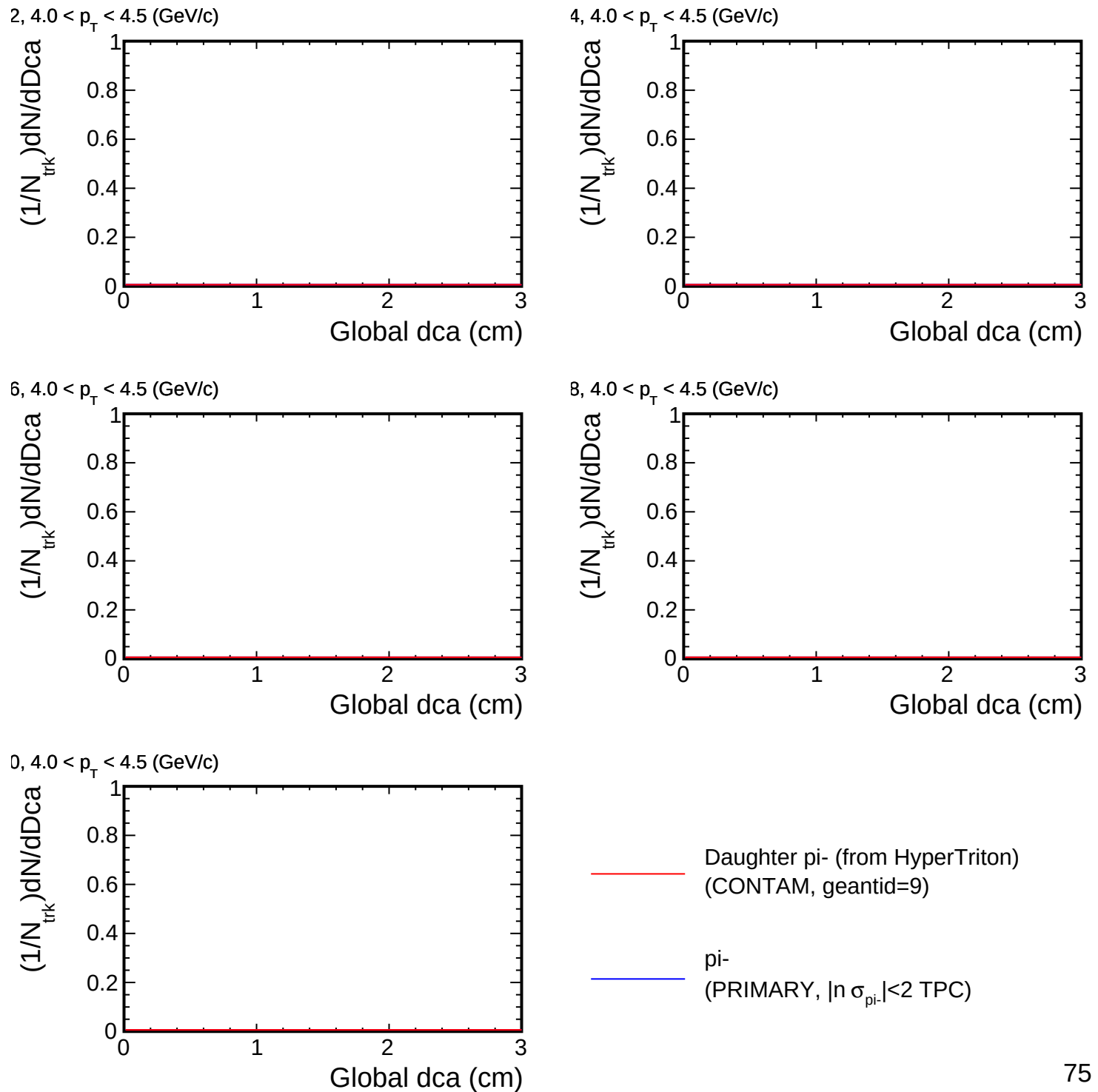
Dca distribution for (p_T , η) slices



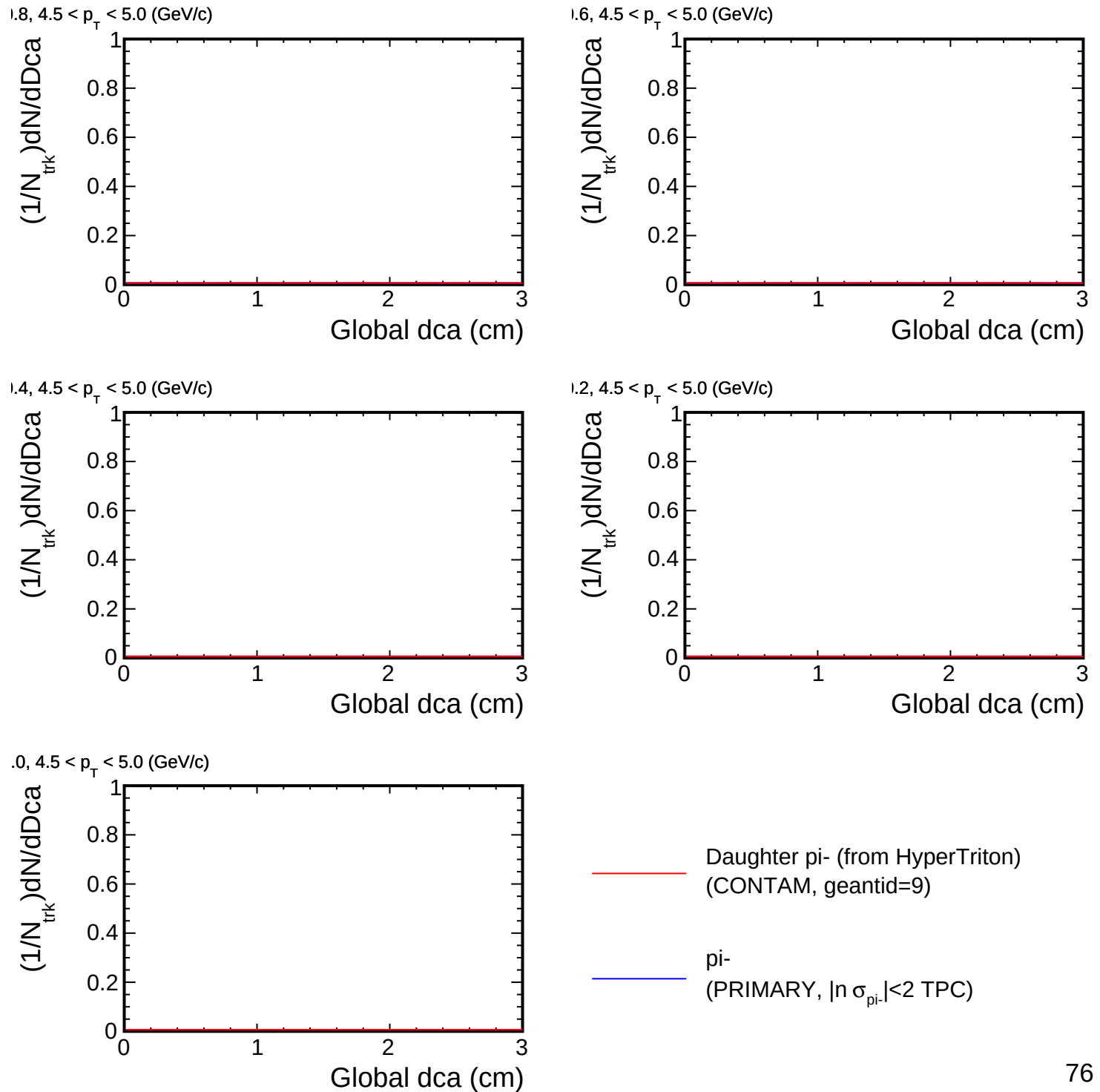
Dca distribution for (p_T , η) slices



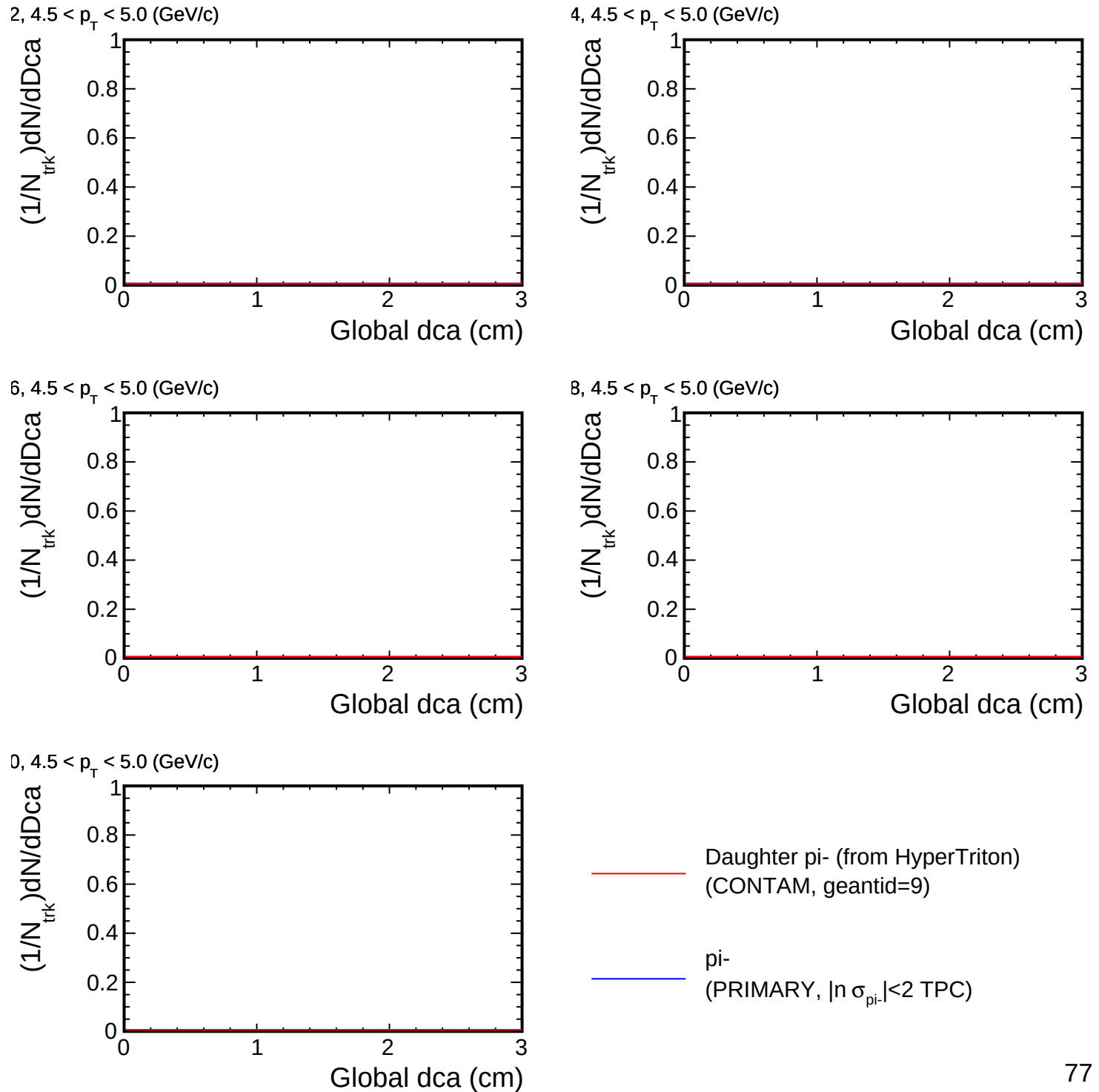
Dca distribution for (p_T , η) slices



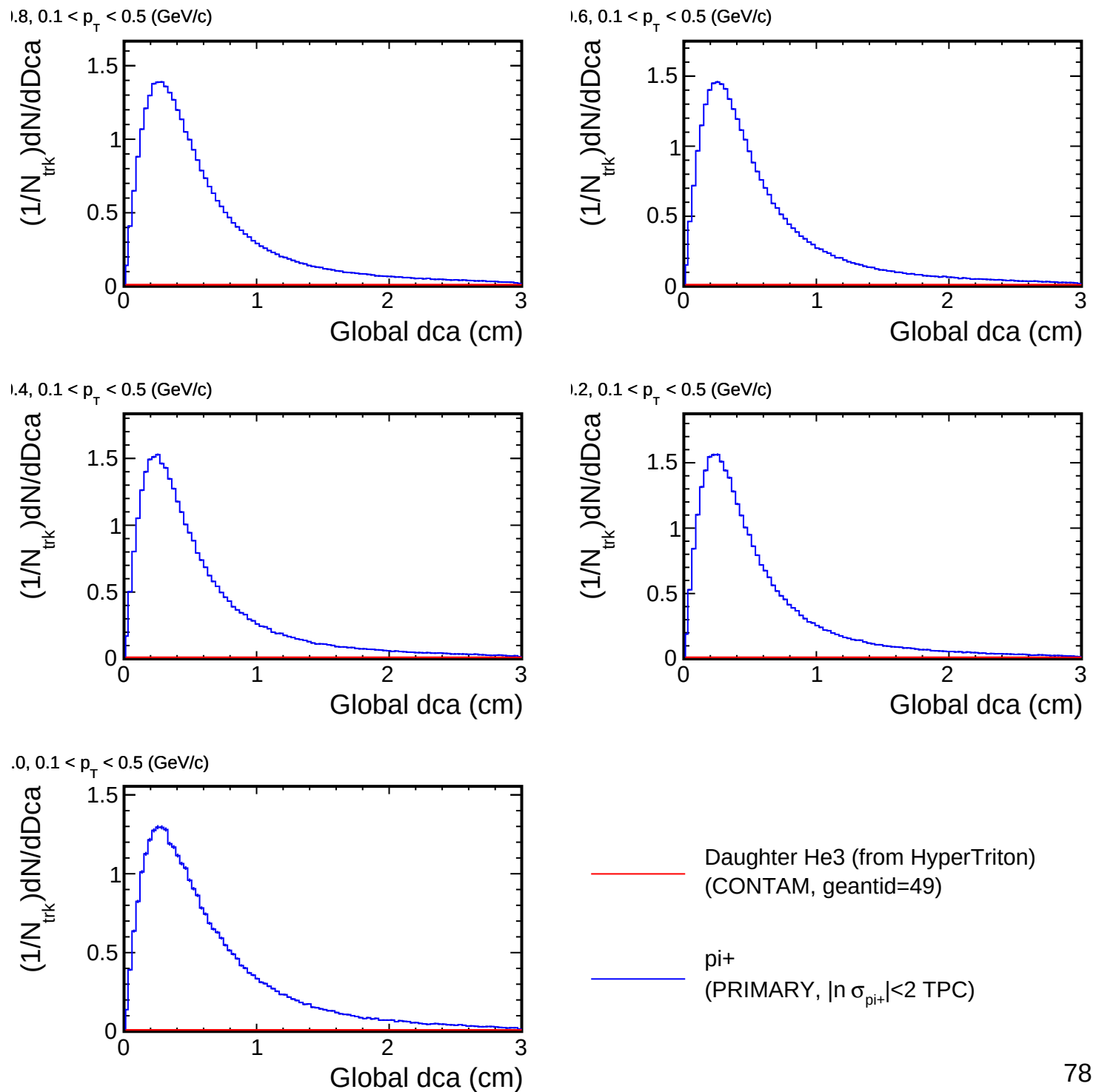
Dca distribution for (p_T , η) slices



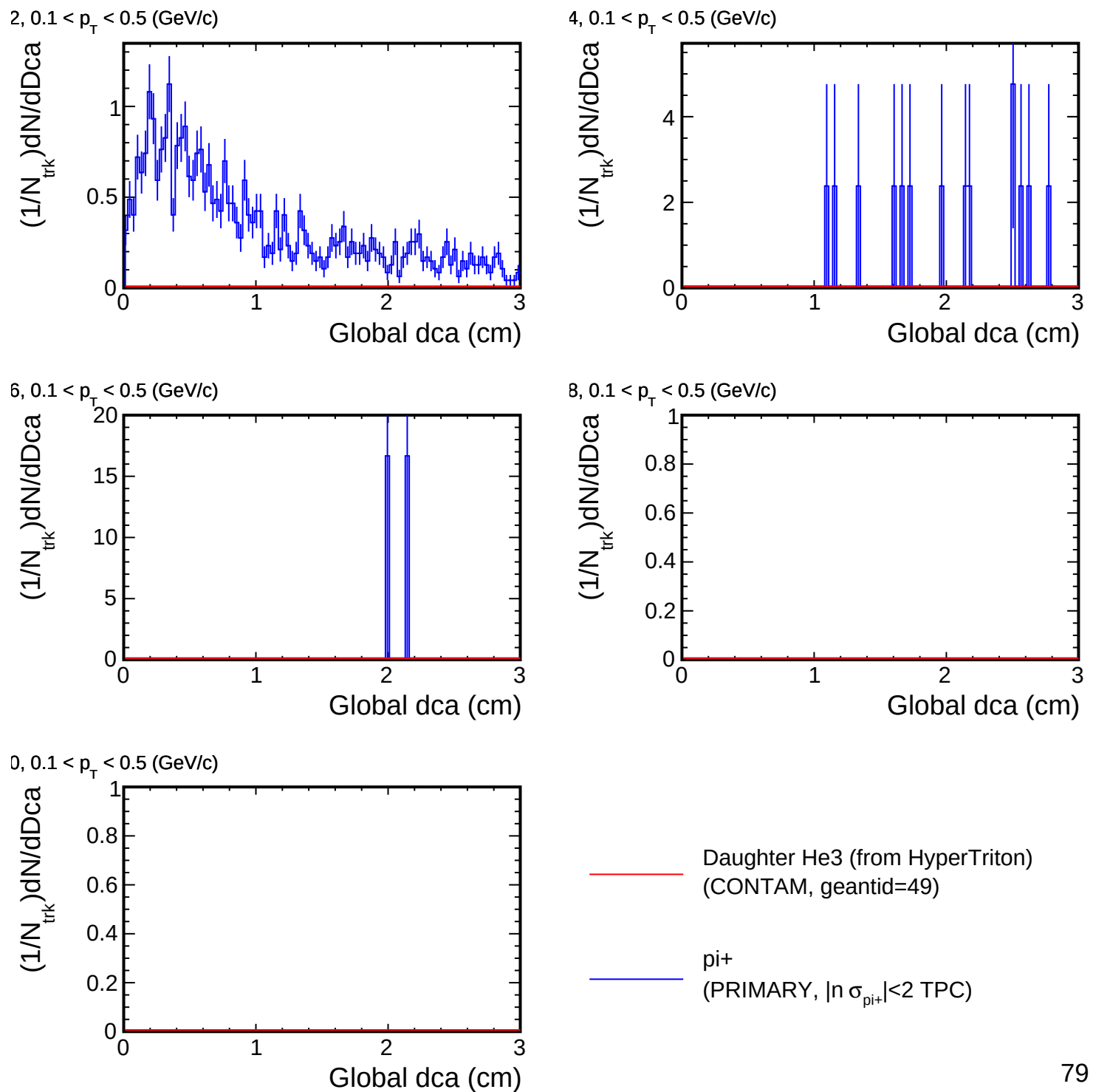
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

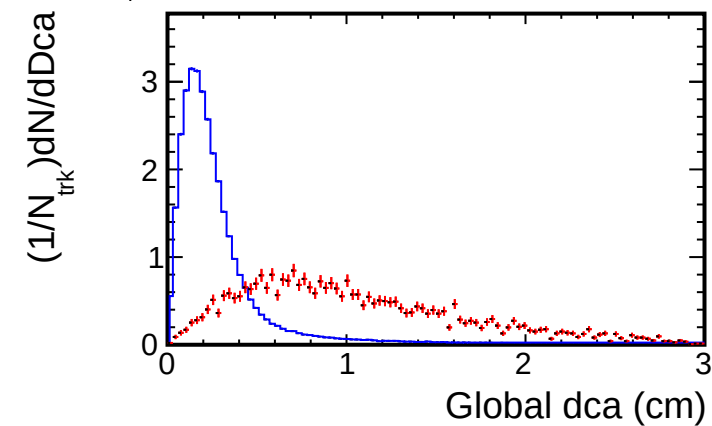


Dca distribution for (p_T , η) slices

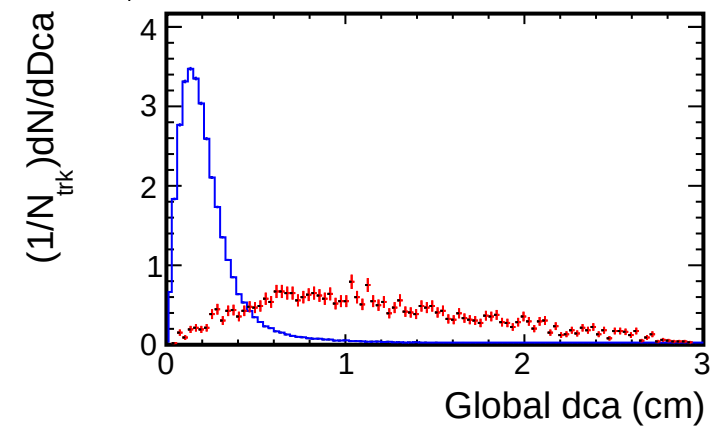


Dca distribution for (p_T , η) slices

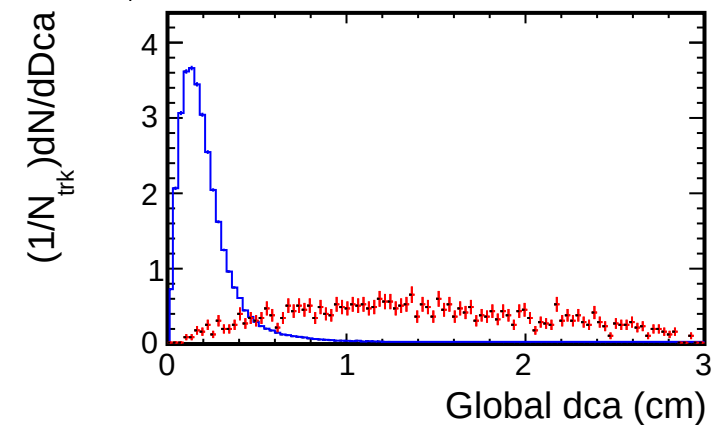
1.8, $0.5 < p_T < 1.0$ (GeV/c)



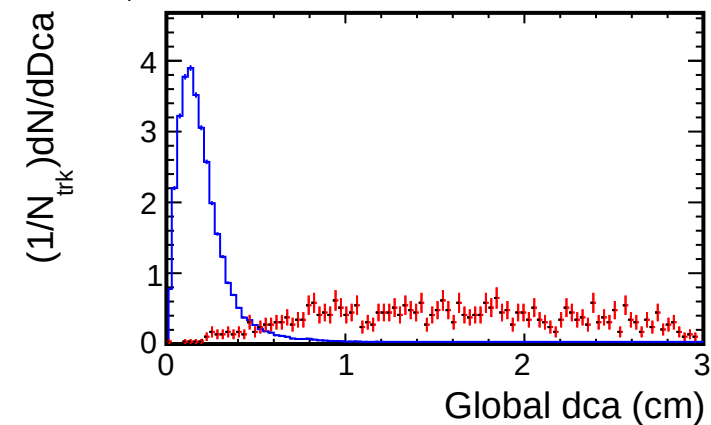
1.6, $0.5 < p_T < 1.0$ (GeV/c)



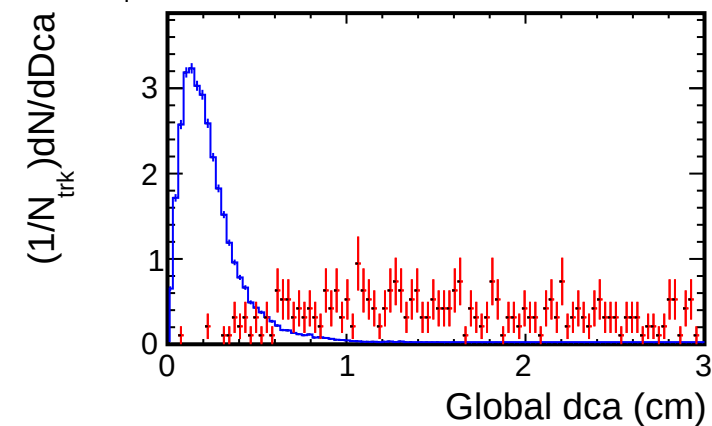
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



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

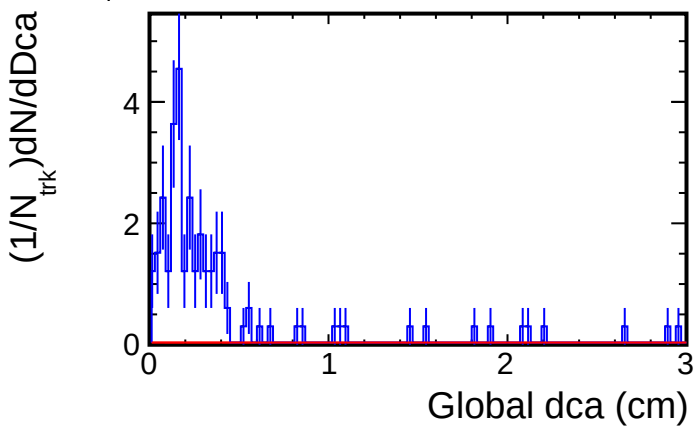


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

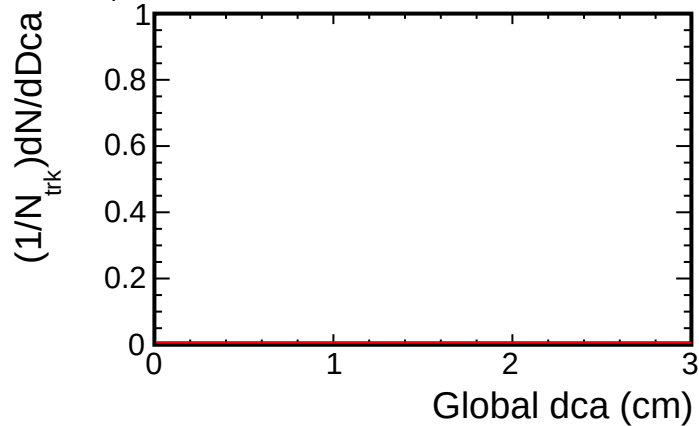
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

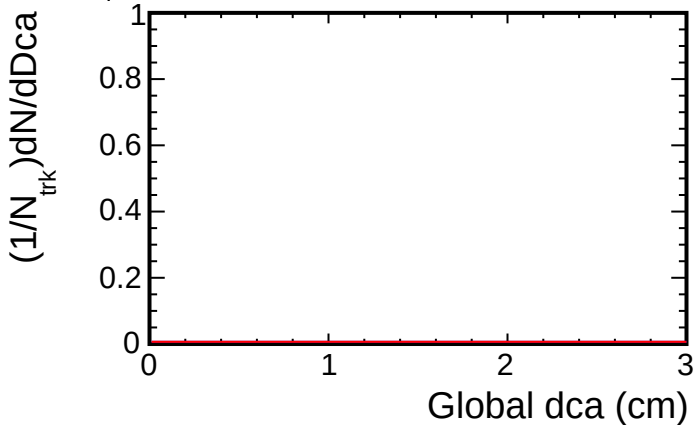
2, $0.5 < p_T < 1.0$ (GeV/c)



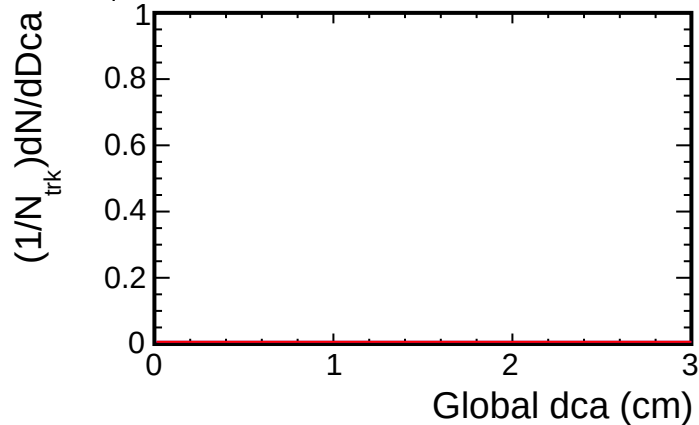
4, $0.5 < p_T < 1.0$ (GeV/c)



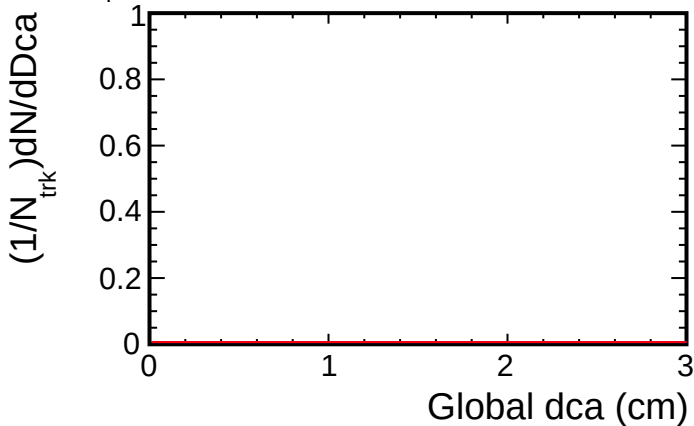
6, $0.5 < p_T < 1.0$ (GeV/c)



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



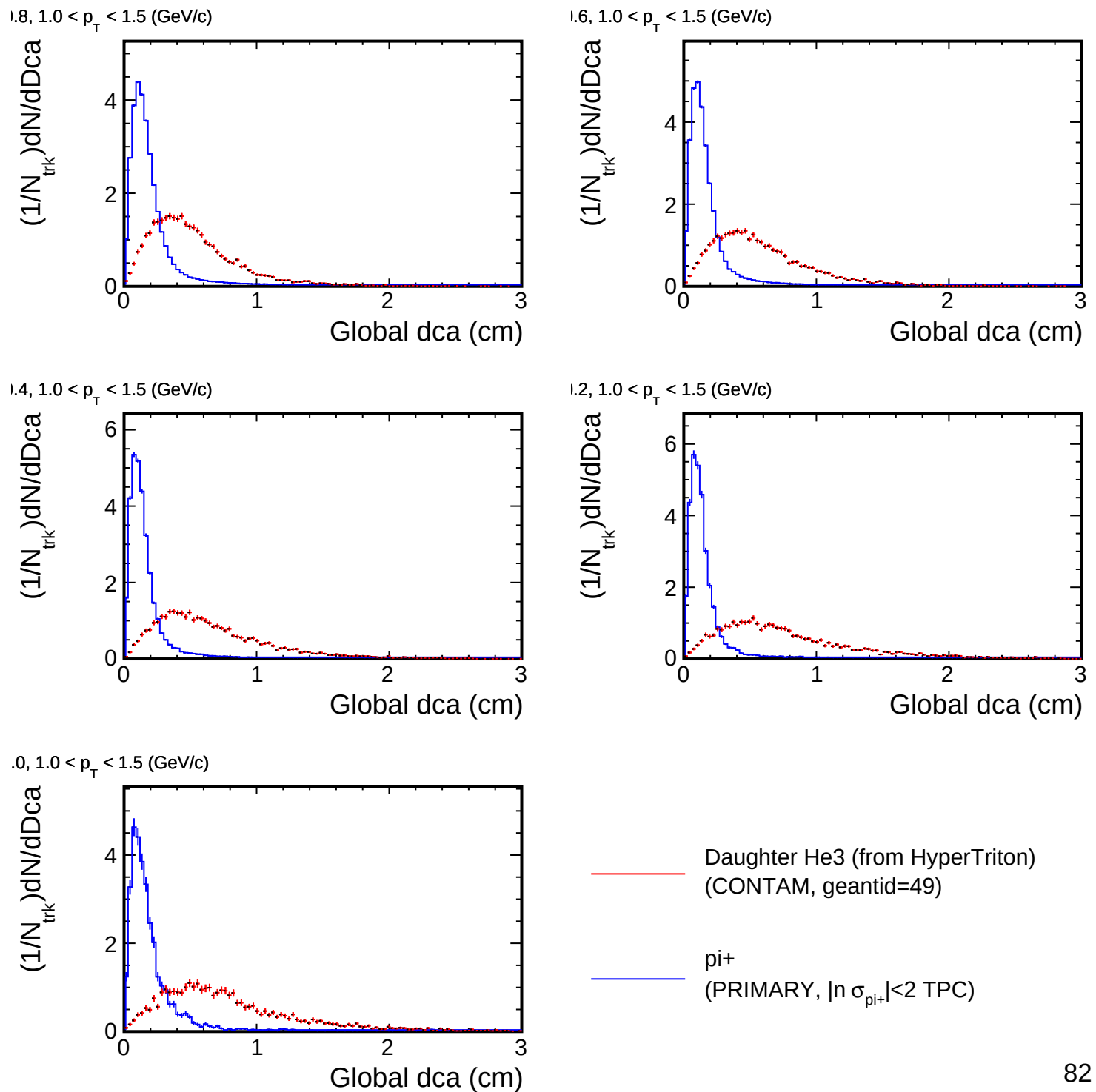
0, $0.5 < p_T < 1.0$ (GeV/c)



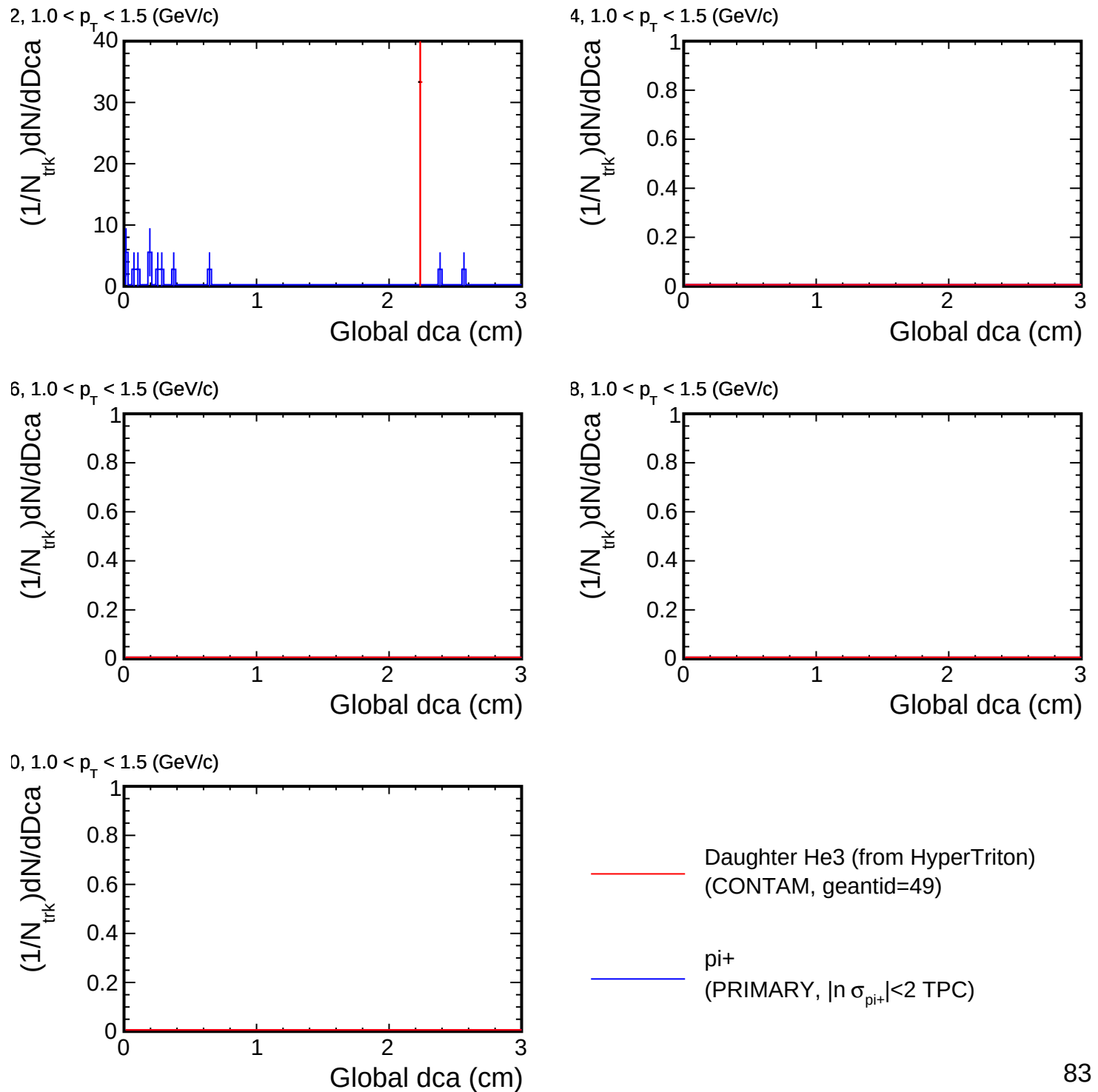
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

Dca distribution for (p_T , η) slices

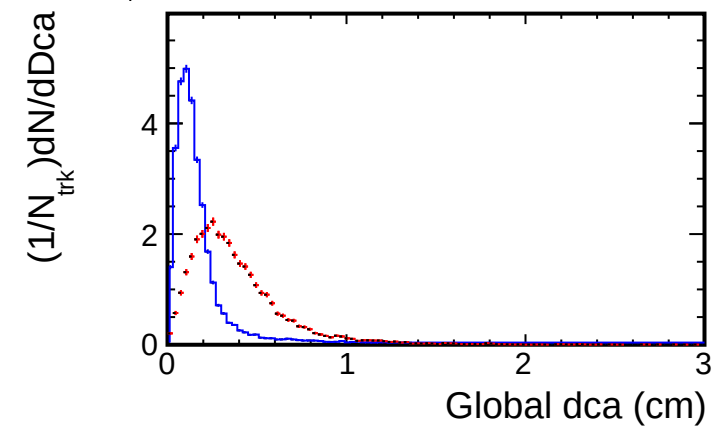


Dca distribution for (p_T , η) slices

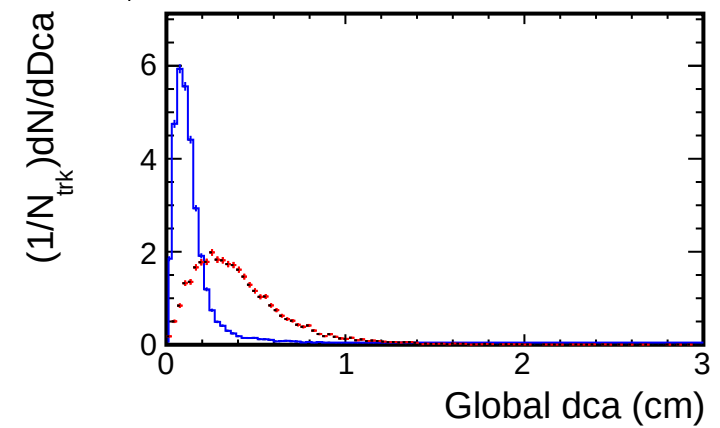


Dca distribution for (p_T , η) slices

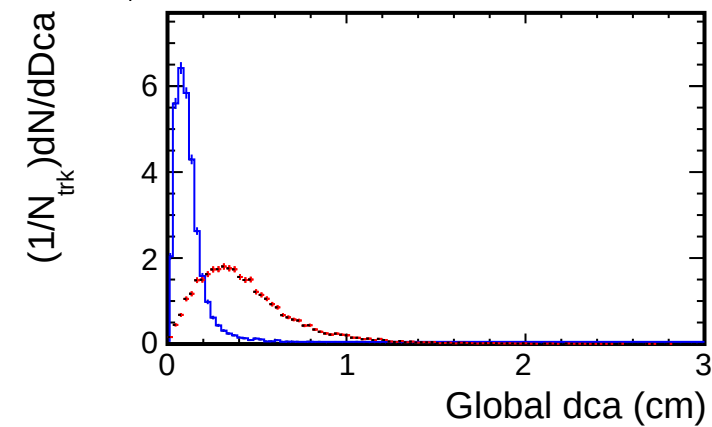
$1.8, 1.5 < p_T < 2.0$ (GeV/c)



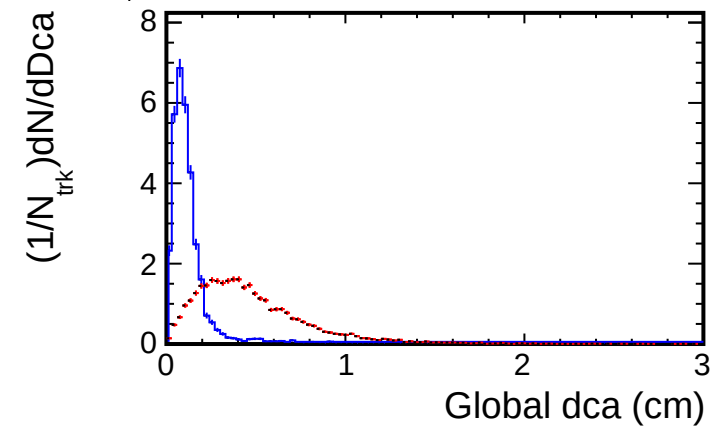
$1.6, 1.5 < p_T < 2.0$ (GeV/c)



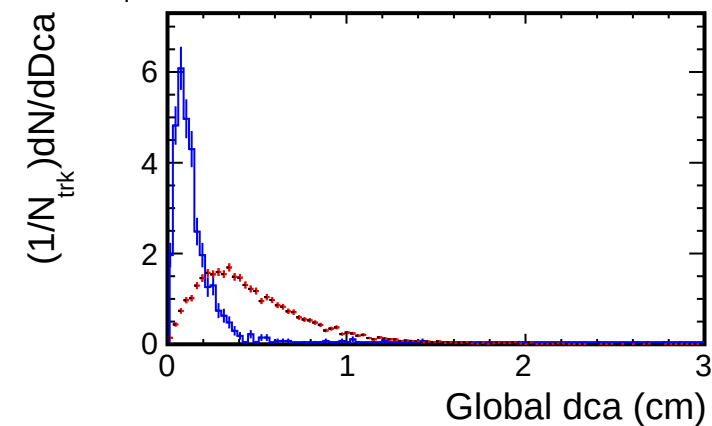
$1.4, 1.5 < p_T < 2.0$ (GeV/c)



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



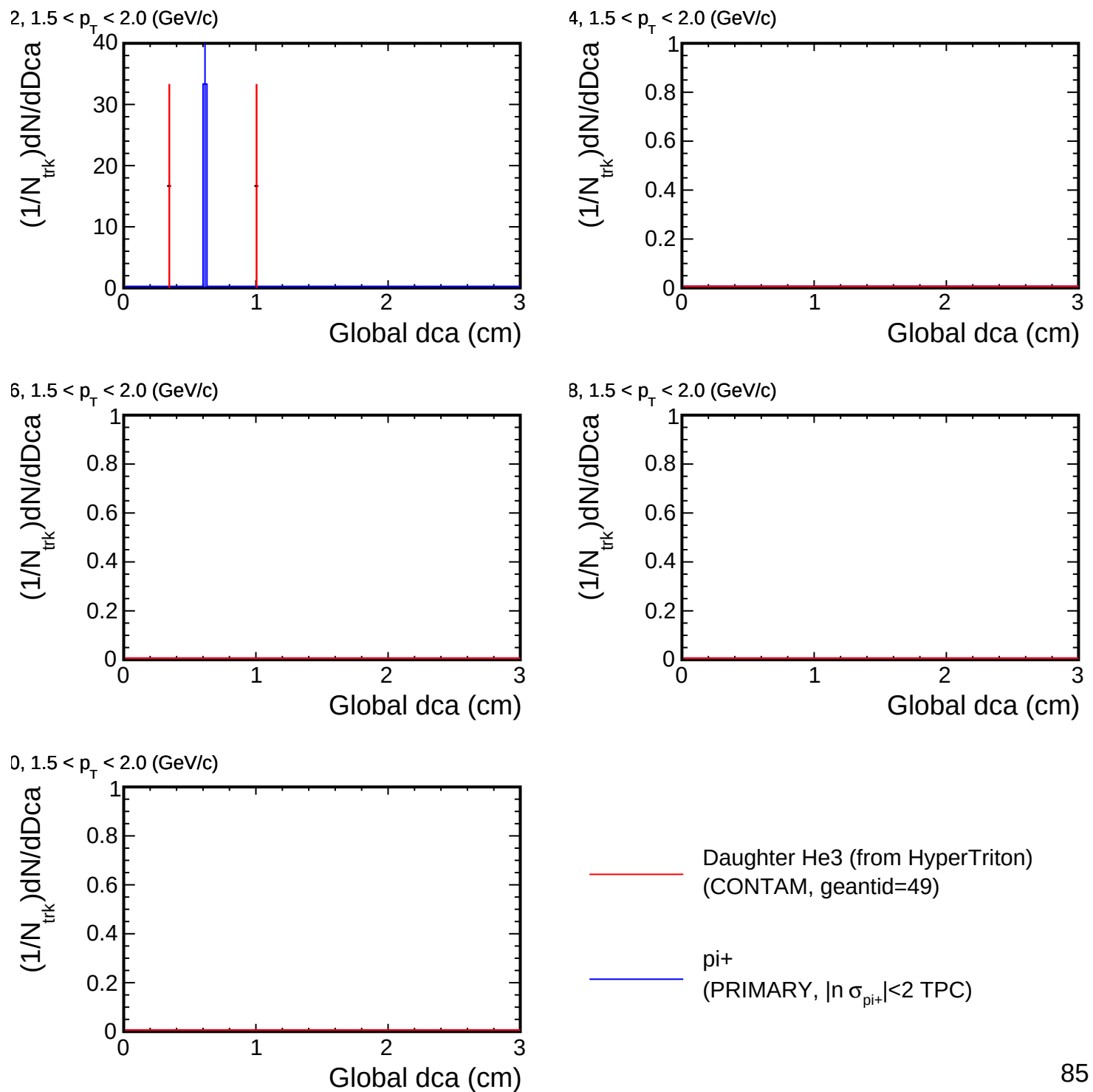
$1.0, 1.5 < p_T < 2.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

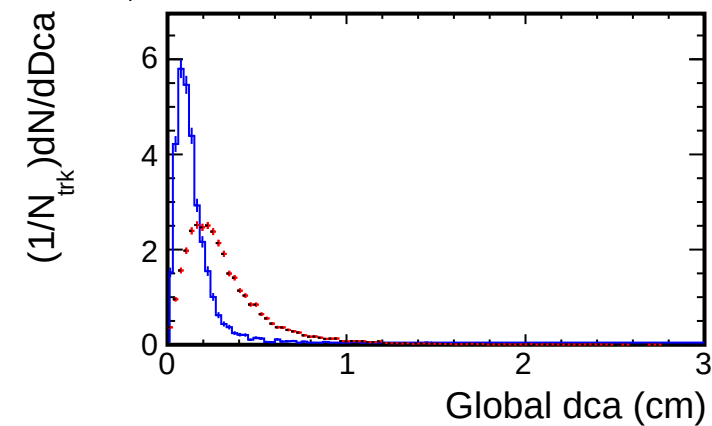
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

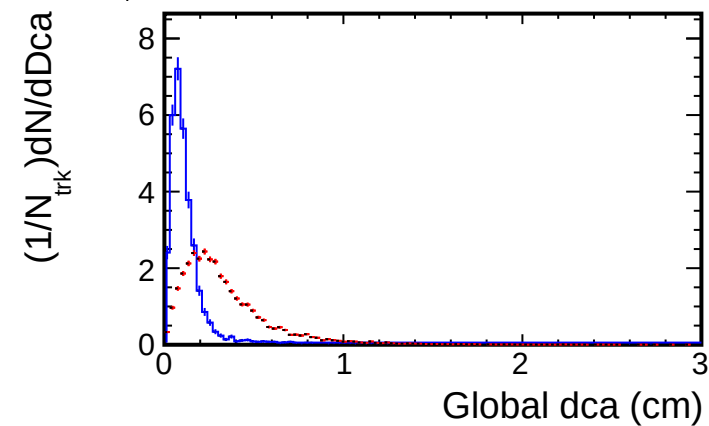


Dca distribution for (p_T , η) slices

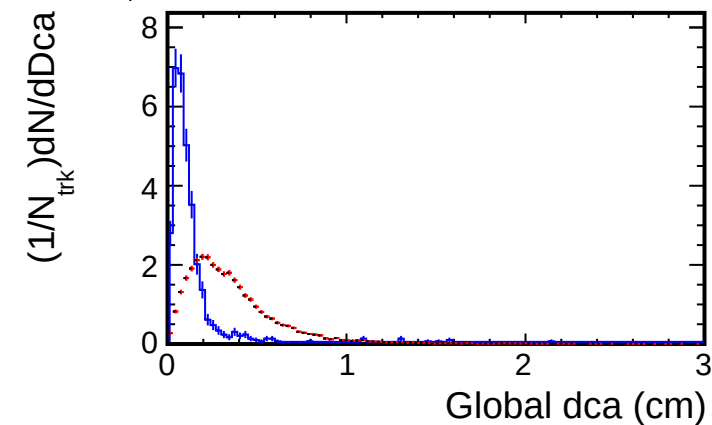
1.8, $2.0 < p_T < 2.5$ (GeV/c)



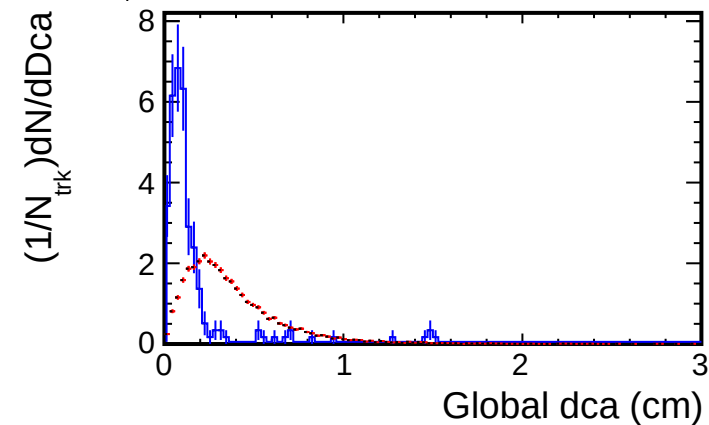
1.6, $2.0 < p_T < 2.5$ (GeV/c)



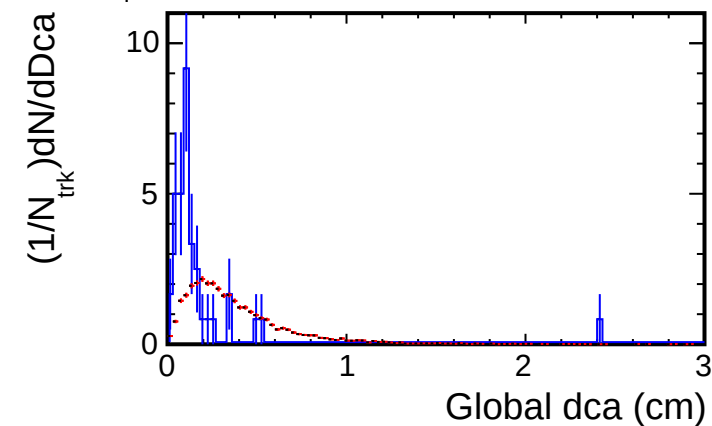
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



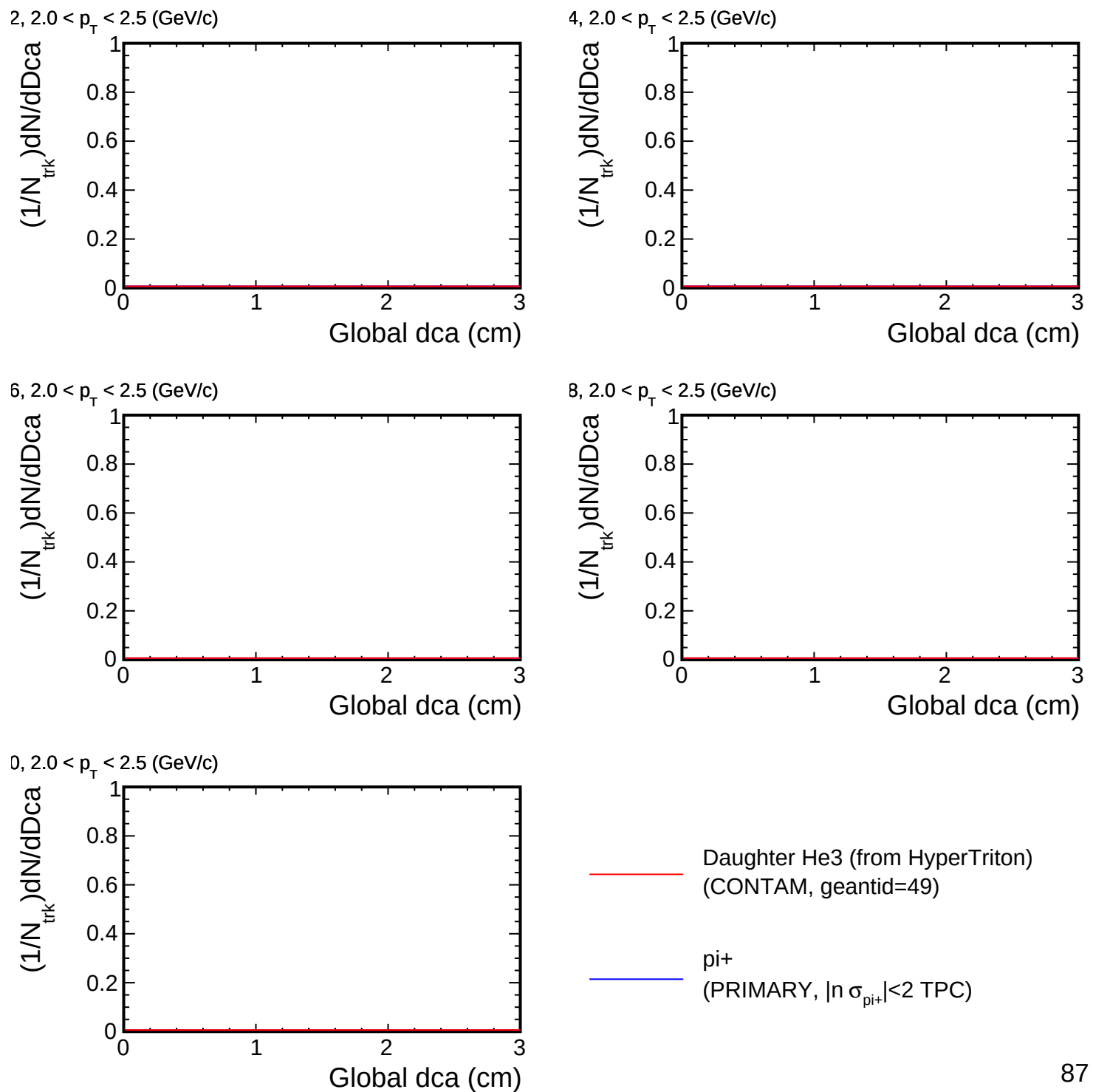
1.0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

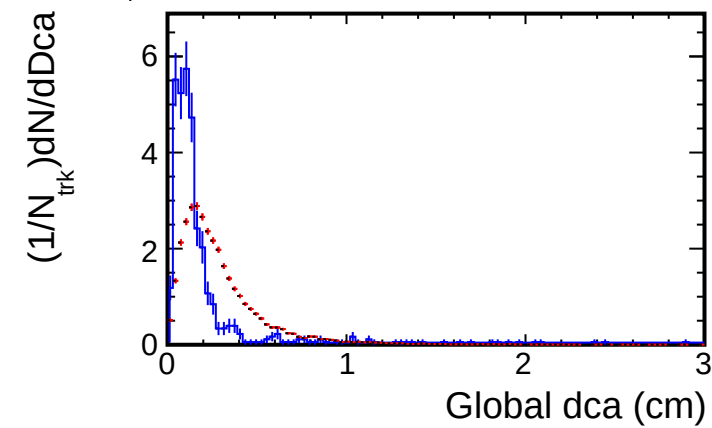
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

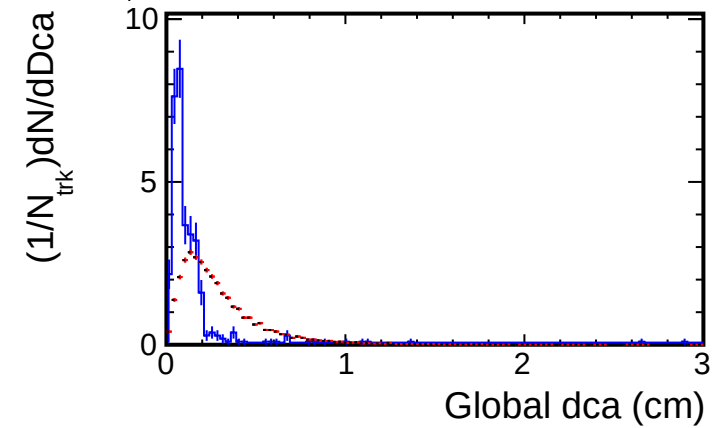


Dca distribution for (p_T , η) slices

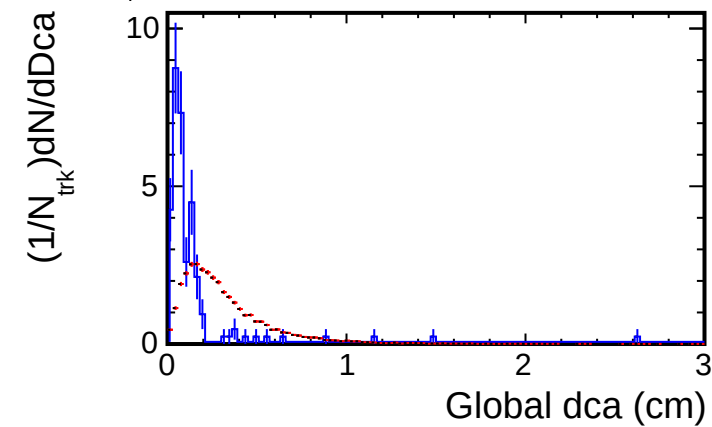
1.8, $2.5 < p_T < 3.0$ (GeV/c)



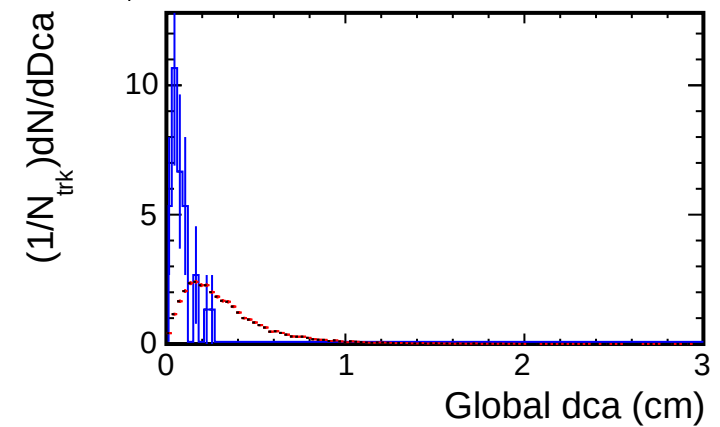
1.6, $2.5 < p_T < 3.0$ (GeV/c)



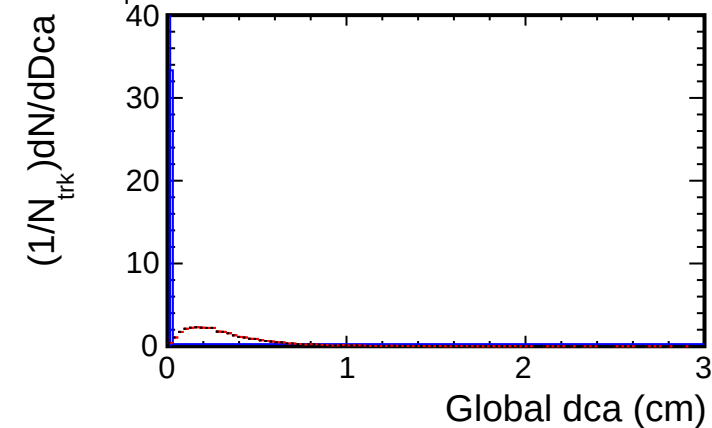
1.4, $2.5 < p_T < 3.0$ (GeV/c)



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



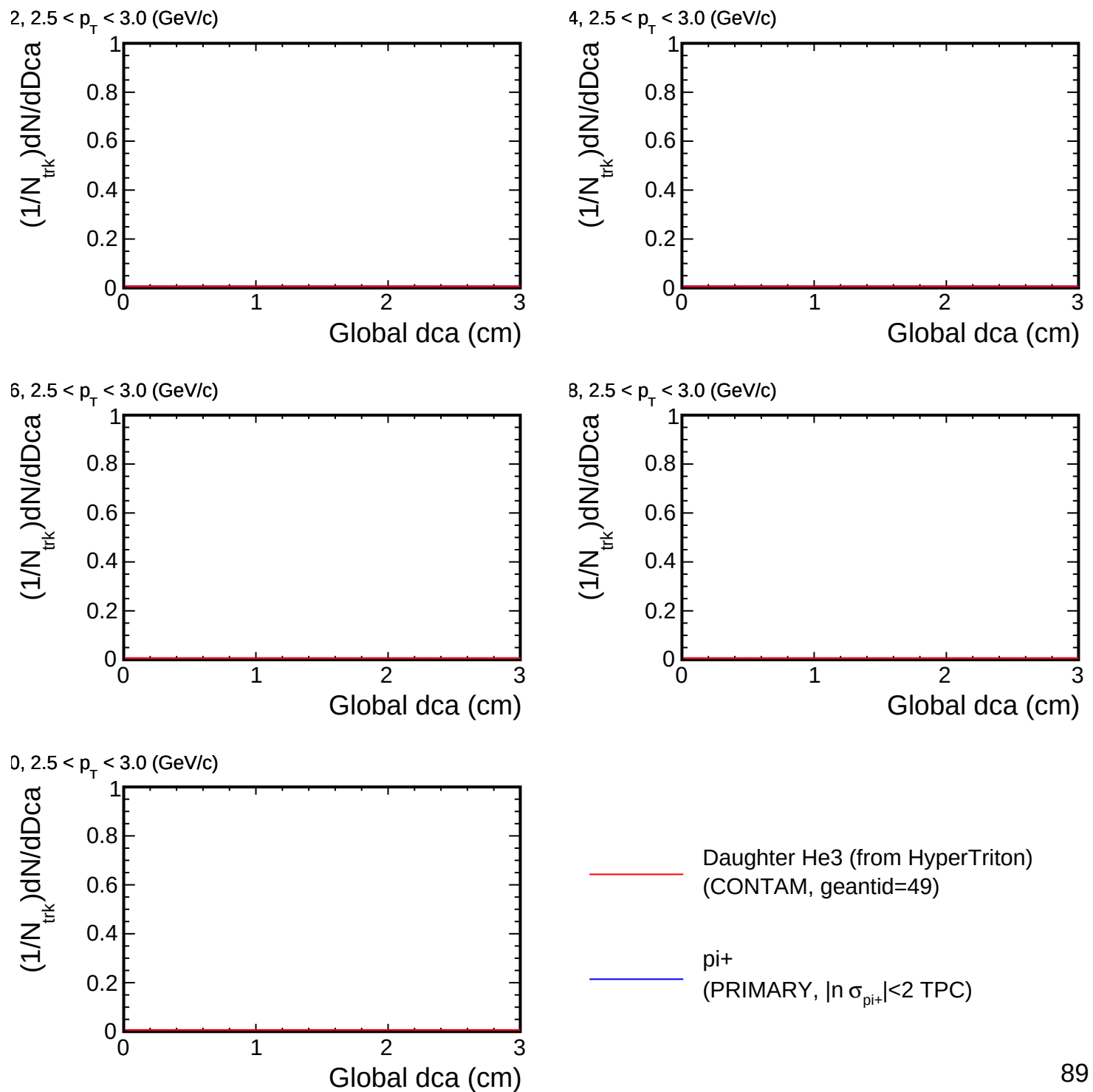
1.0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

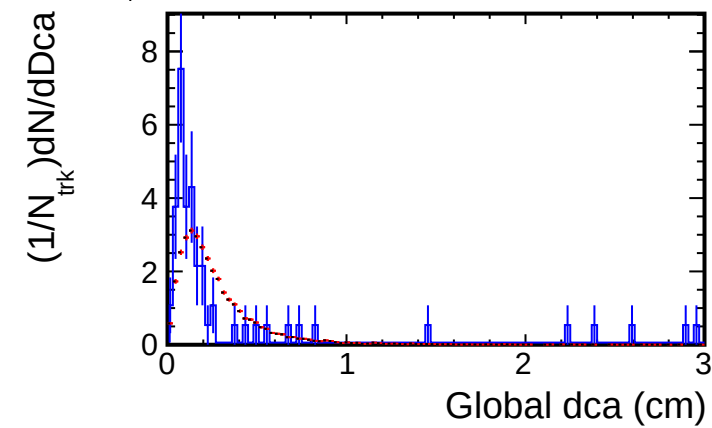
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

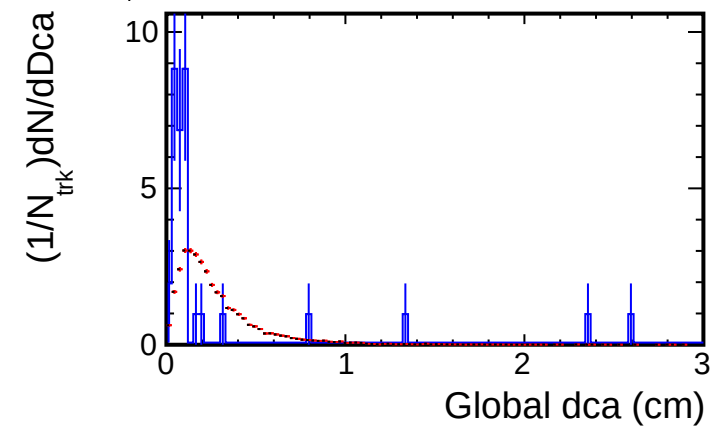


Dca distribution for (p_T , η) slices

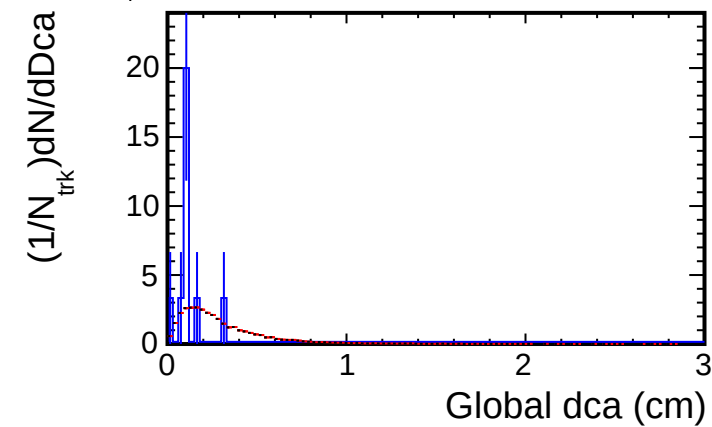
1.8, $3.0 < p_T < 3.5$ (GeV/c)



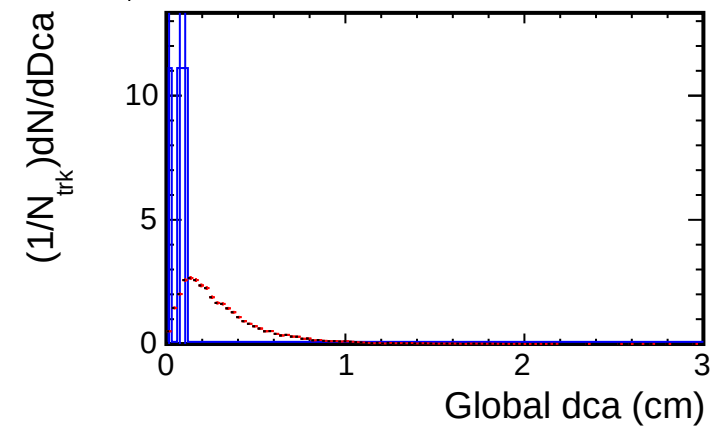
1.6, $3.0 < p_T < 3.5$ (GeV/c)



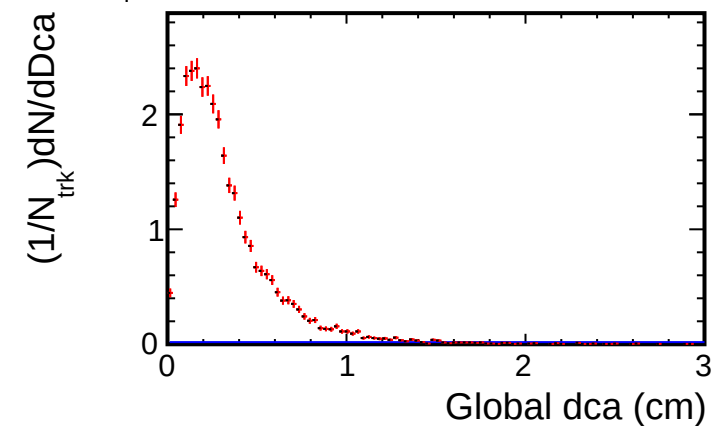
1.4, $3.0 < p_T < 3.5$ (GeV/c)



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



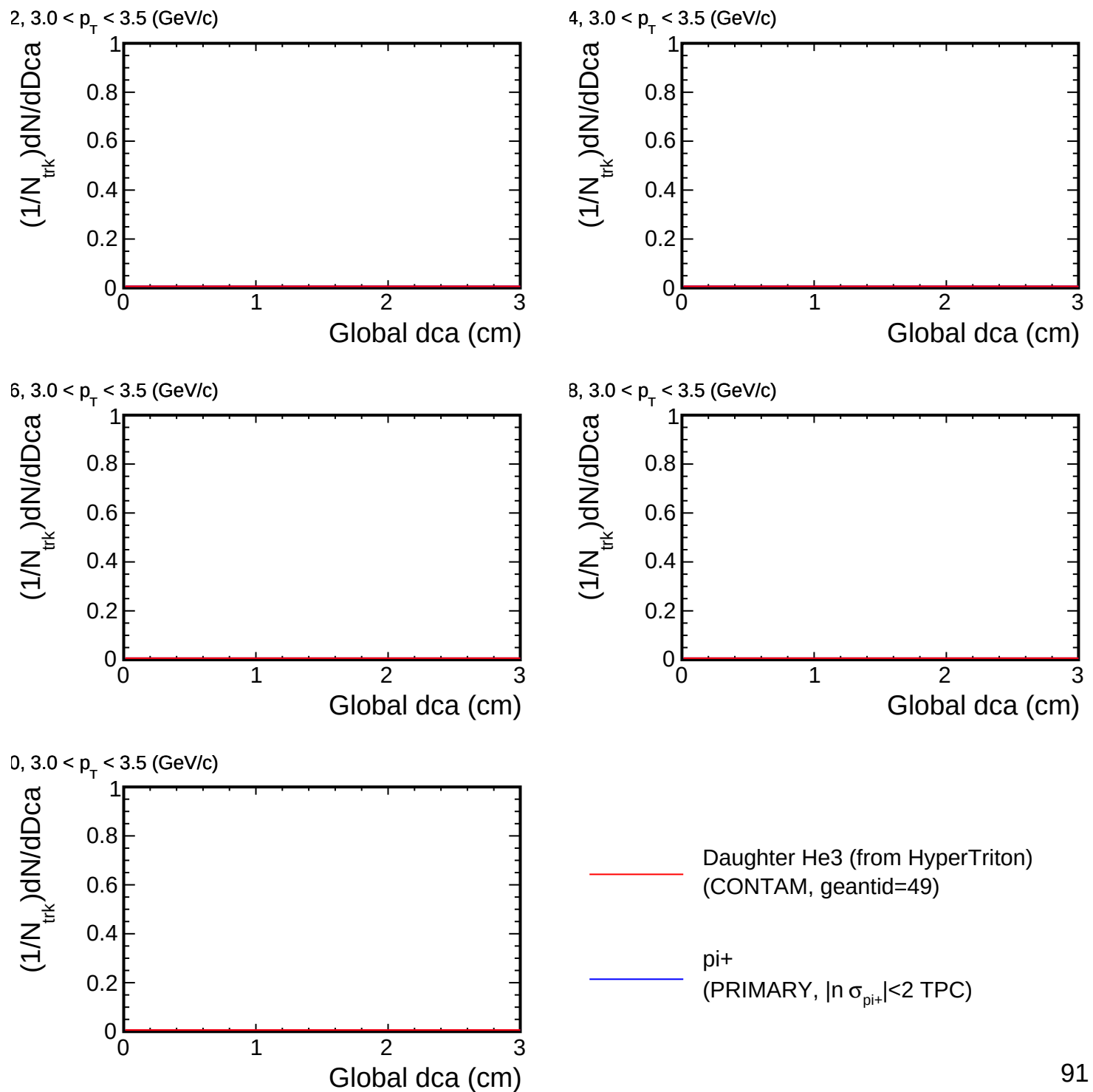
1.0, $3.0 < p_T < 3.5$ (GeV/c)



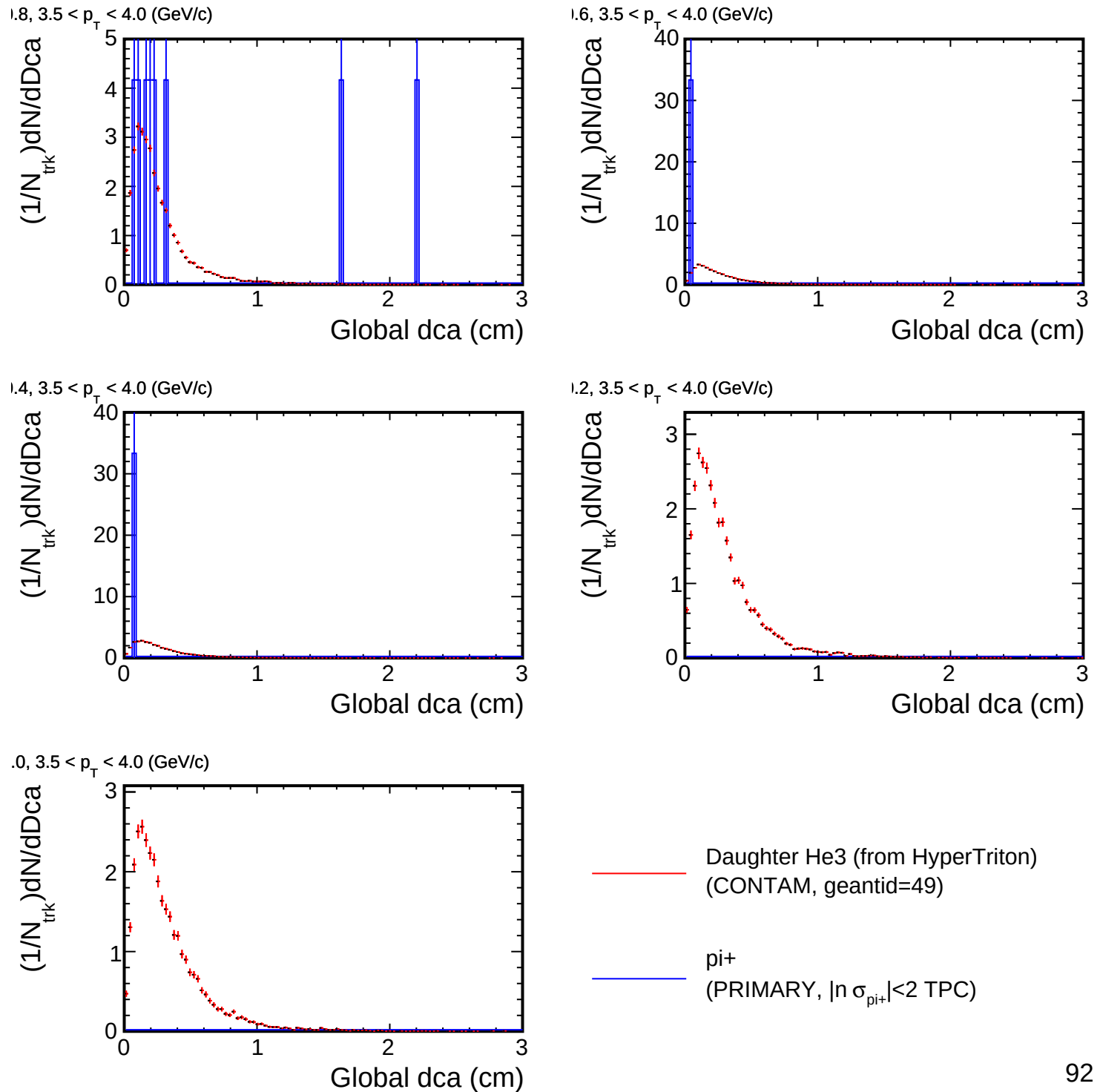
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

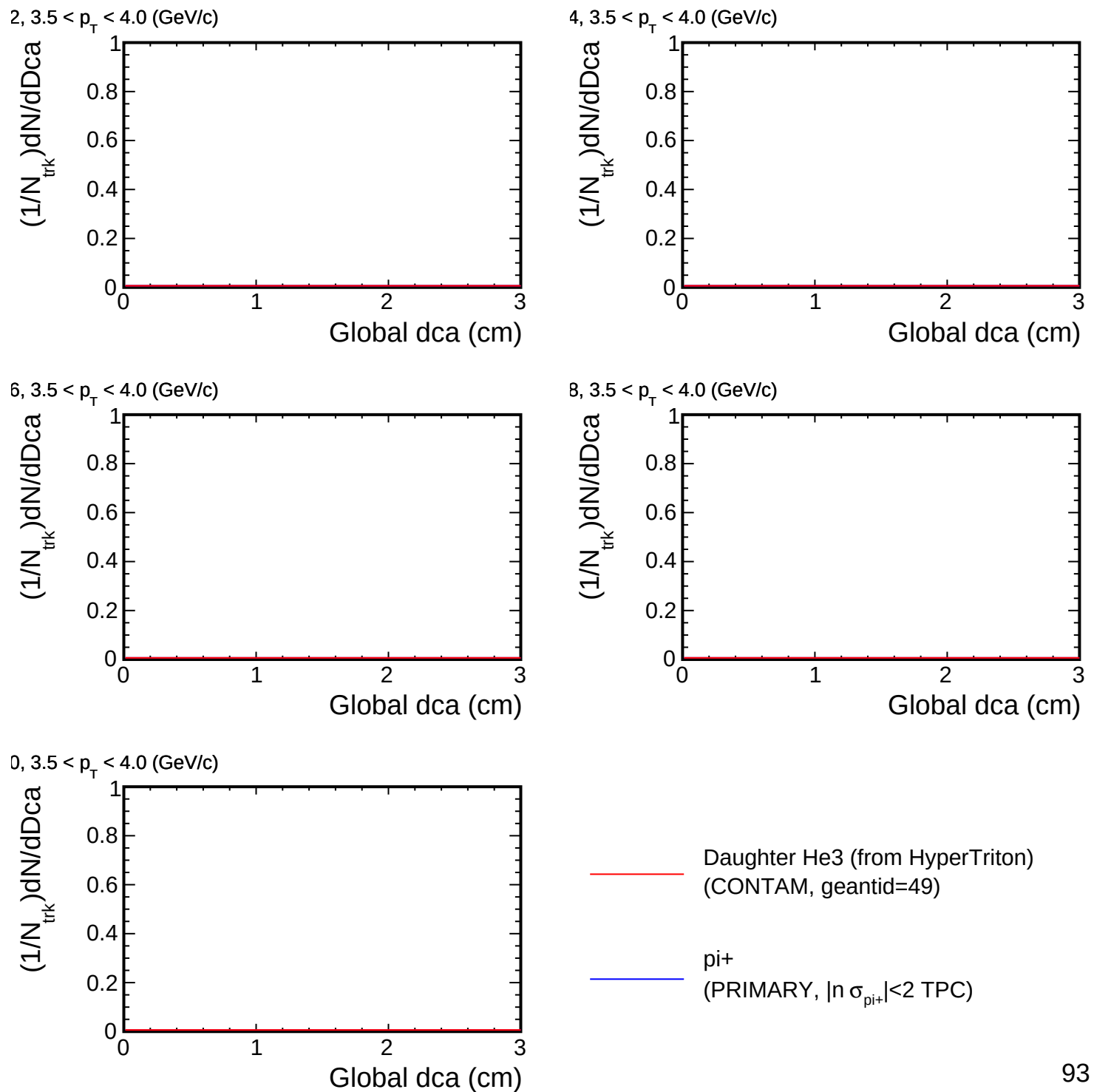
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

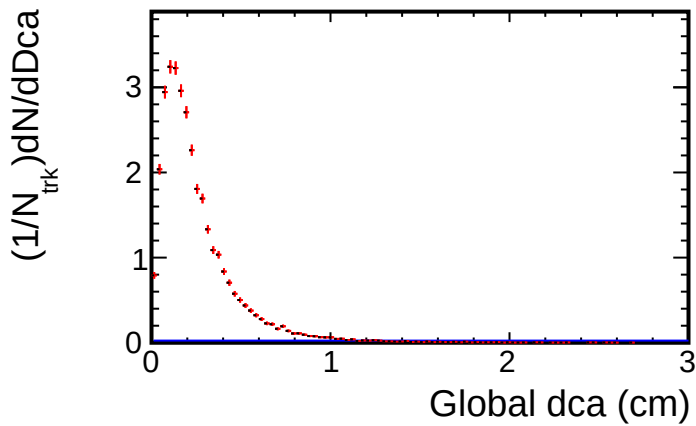


Dca distribution for (p_T , η) slices

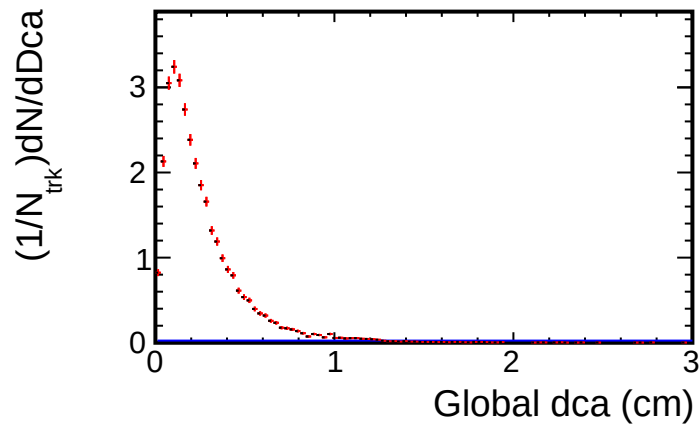


Dca distribution for (p_T , η) slices

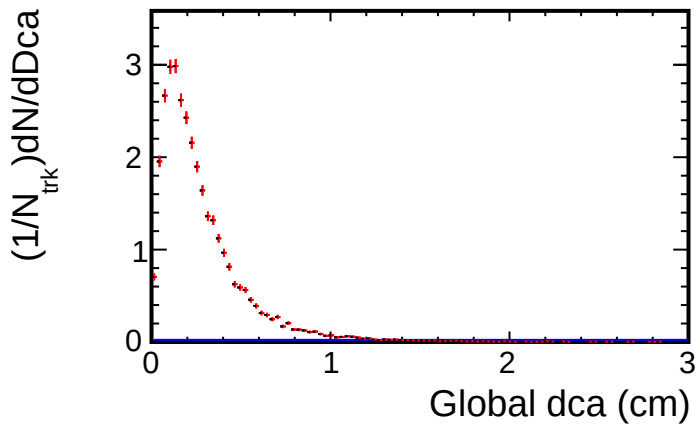
1.8, $4.0 < p_T < 4.5$ (GeV/c)



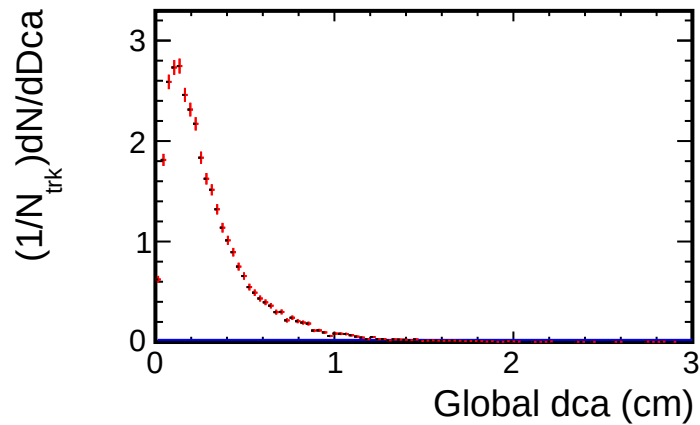
1.6, $4.0 < p_T < 4.5$ (GeV/c)



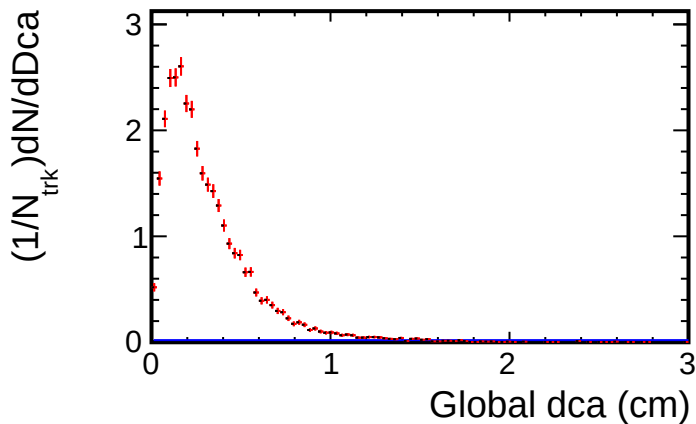
1.4, $4.0 < p_T < 4.5$ (GeV/c)



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



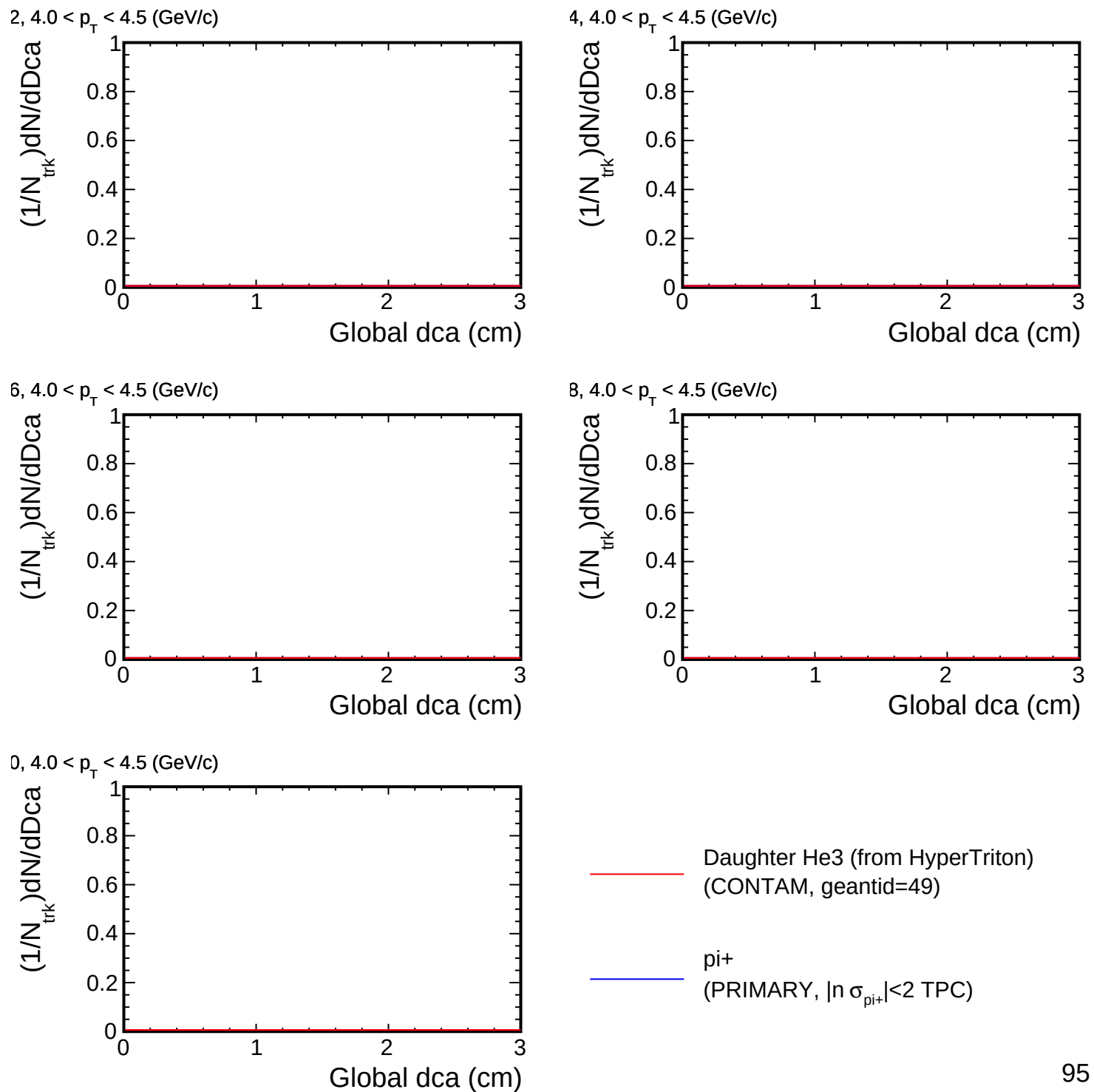
1.0, $4.0 < p_T < 4.5$ (GeV/c)



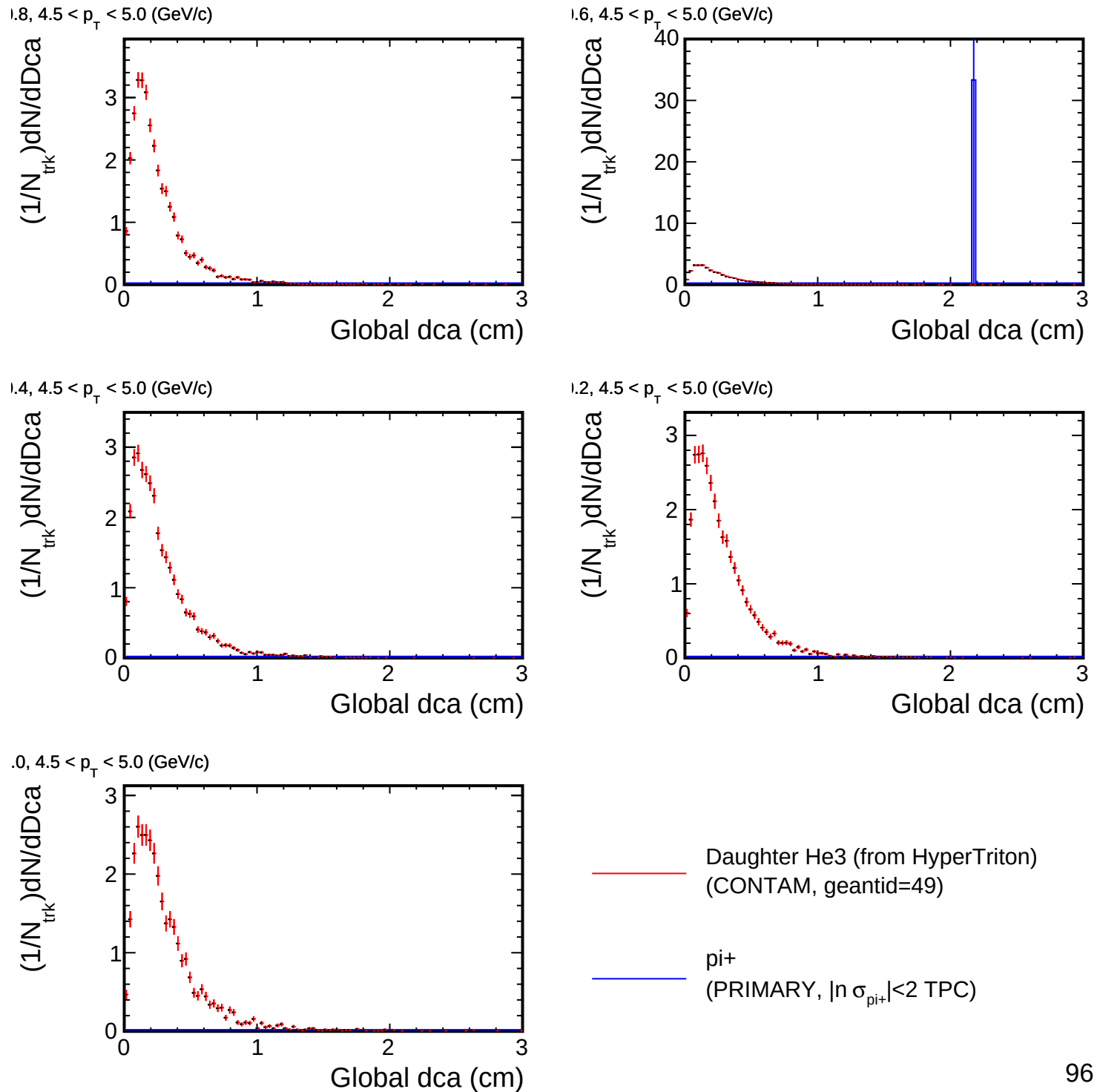
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

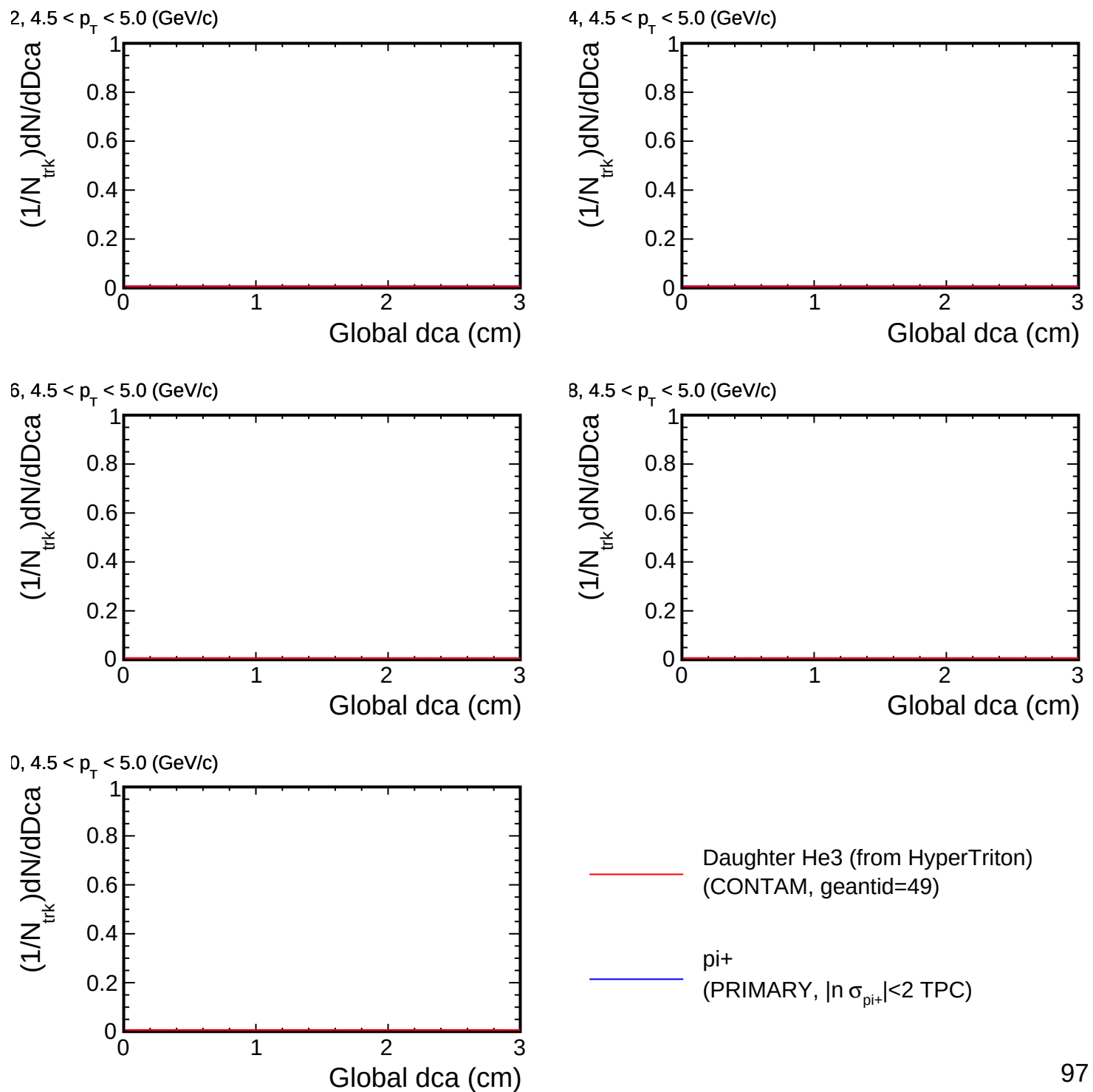
Dca distribution for (p_T , η) slices



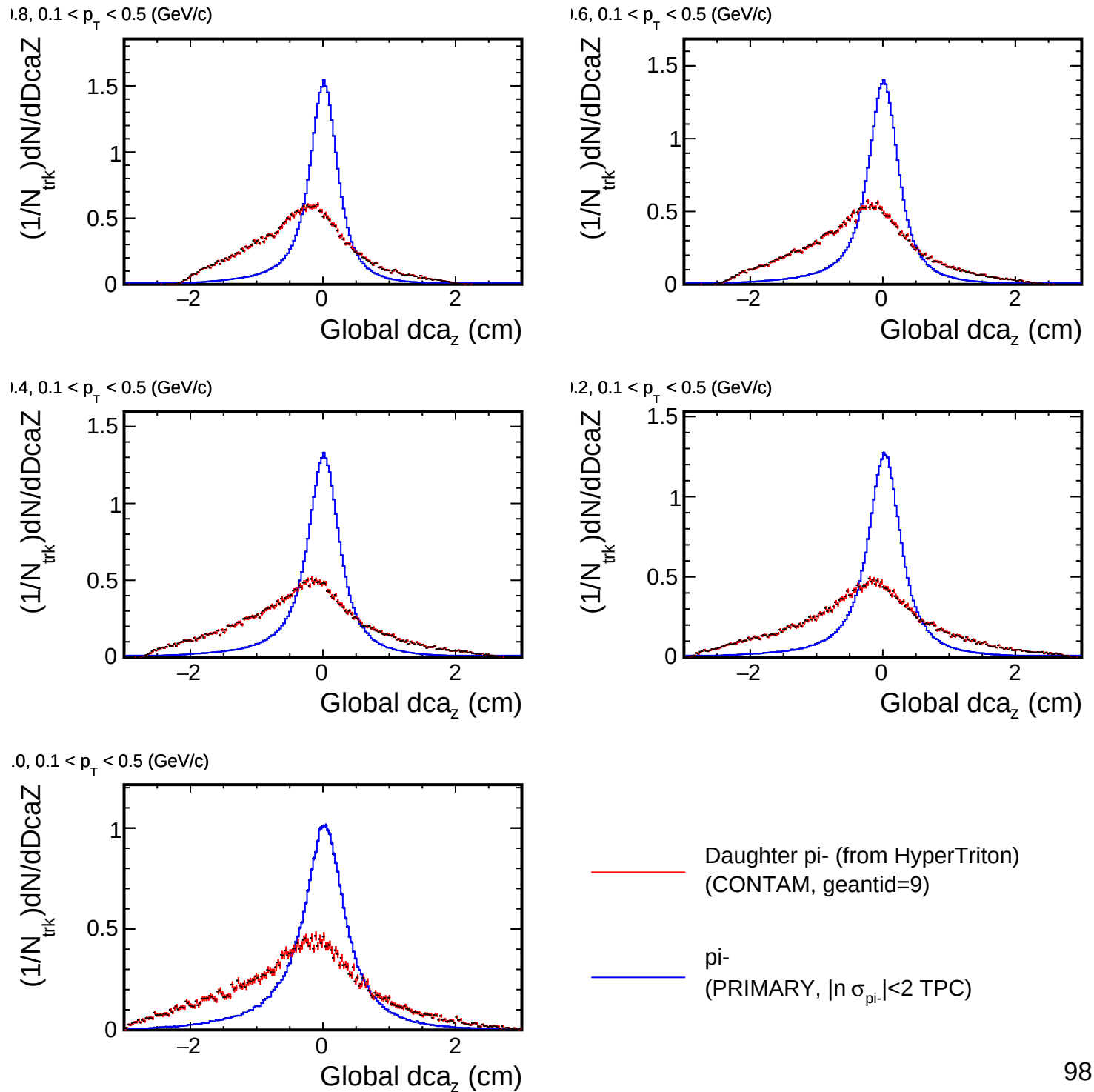
Dca distribution for (p_T , η) slices



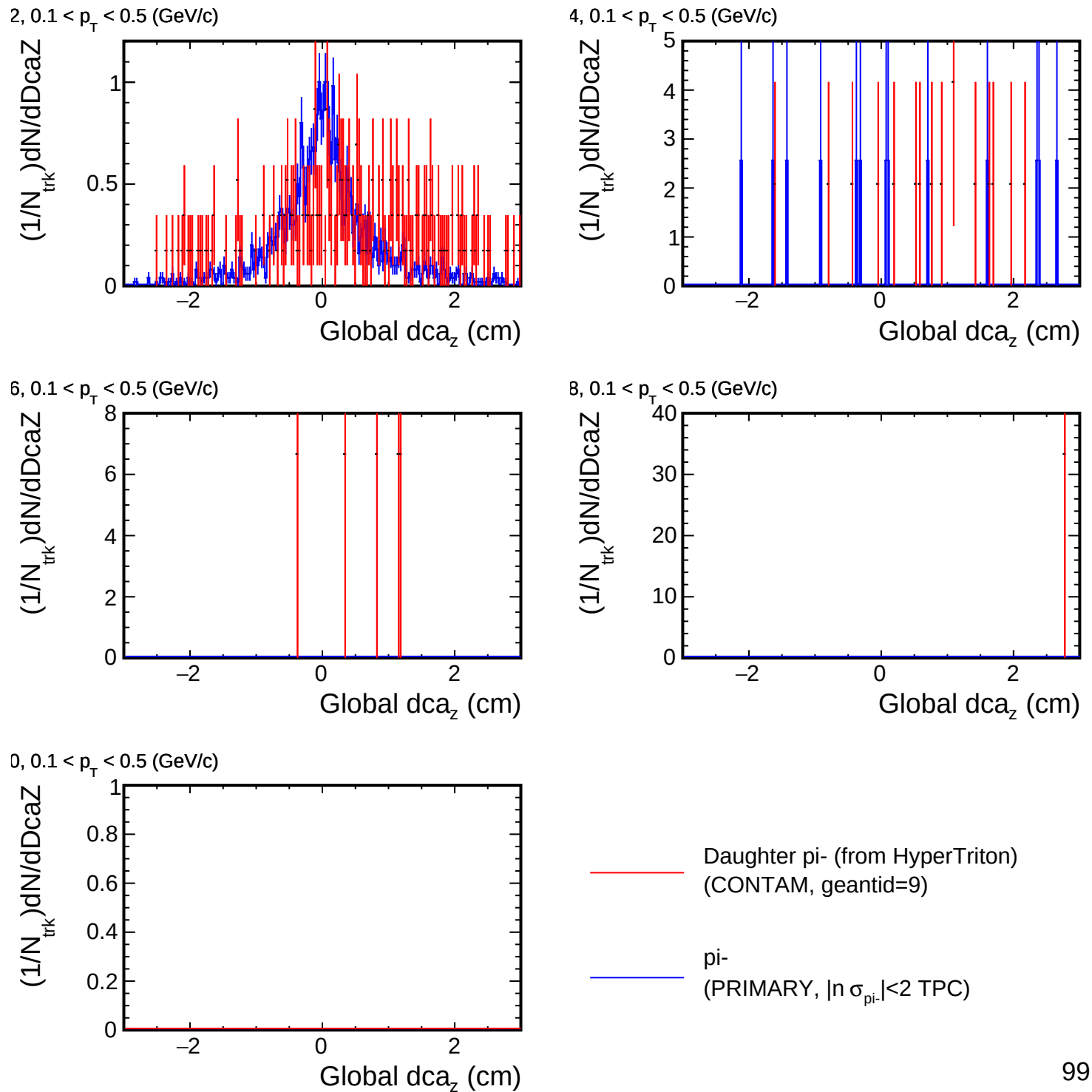
Dca distribution for (p_T , η) slices



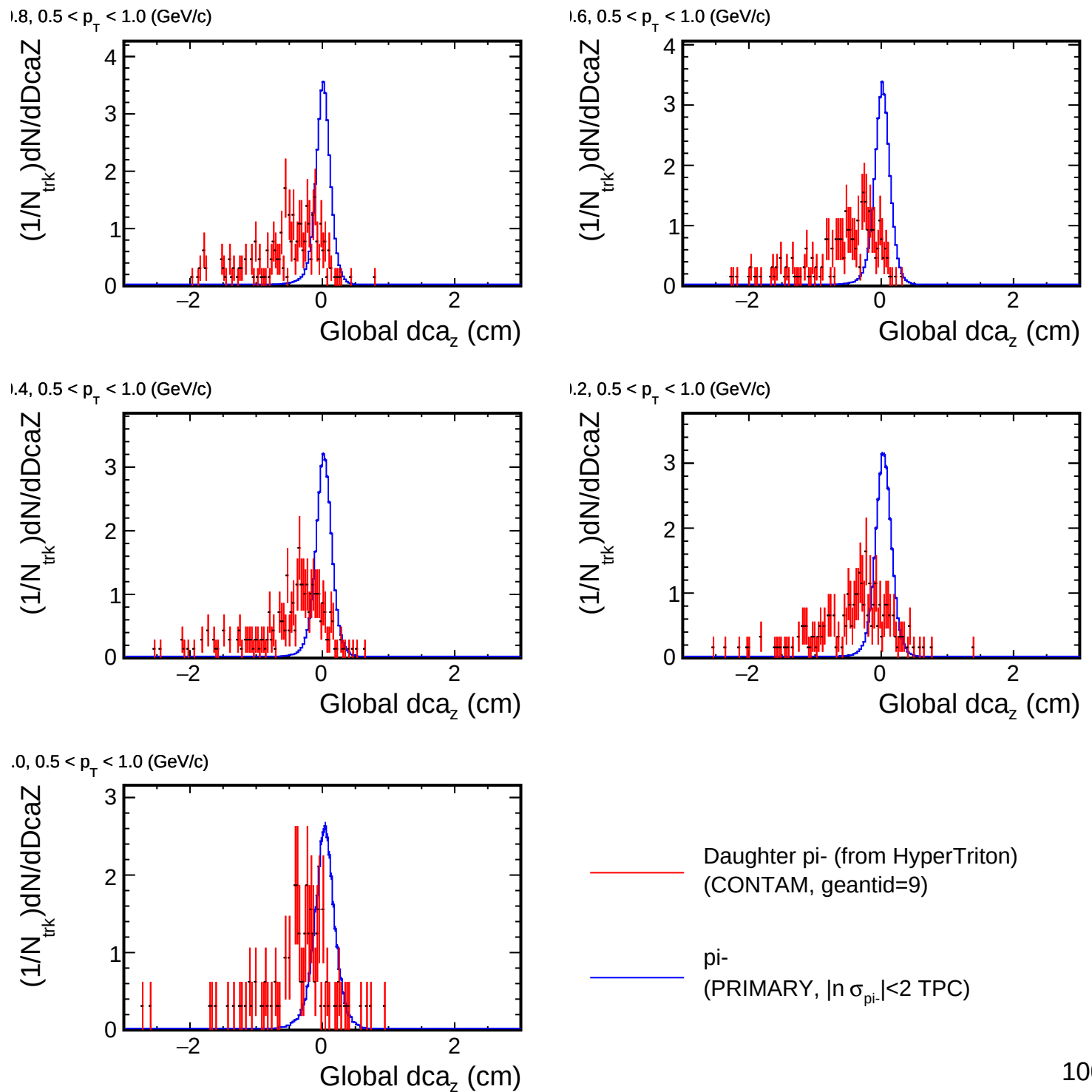
DcaZ distribution for (p_T , η) slices



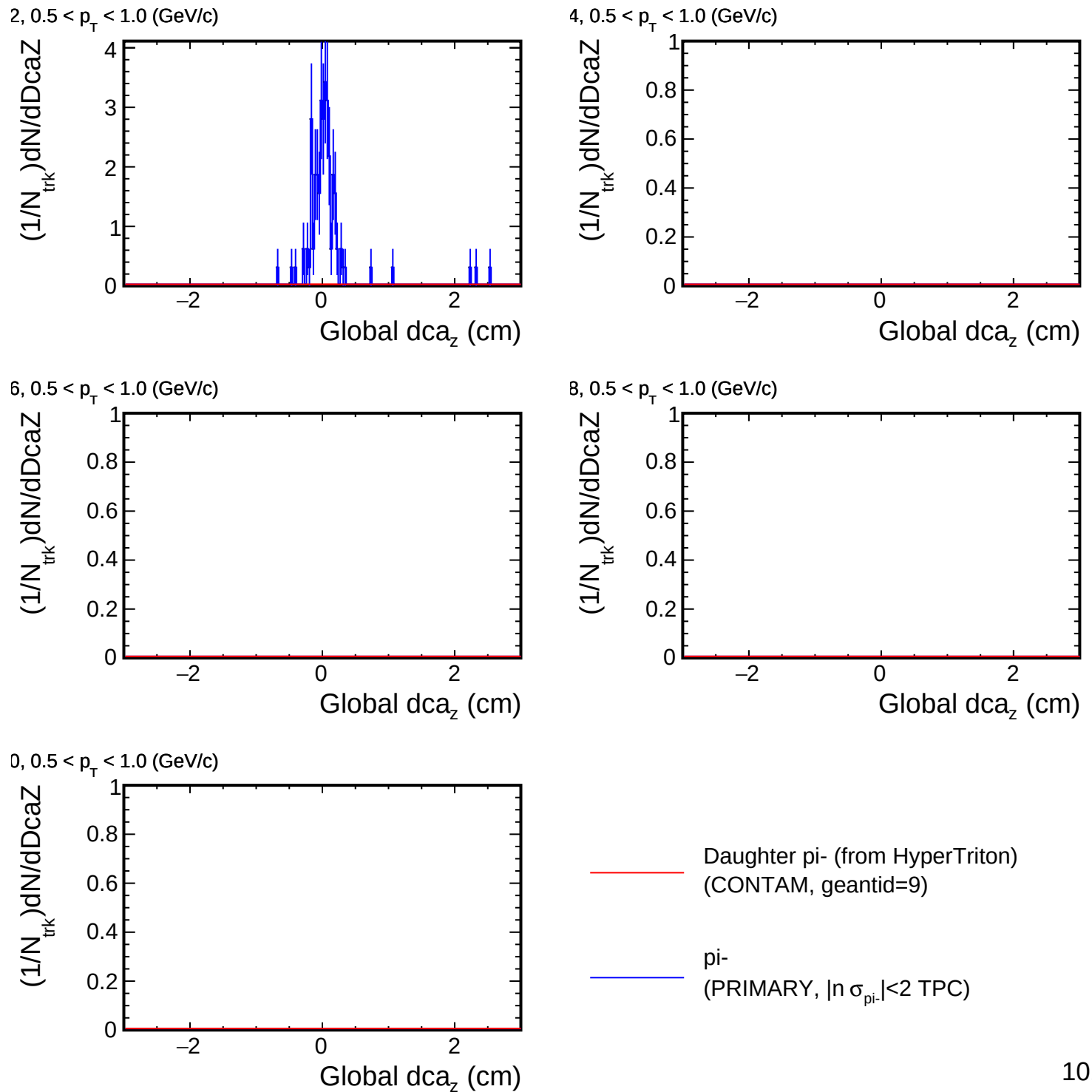
DcaZ distribution for (p_T , η) slices



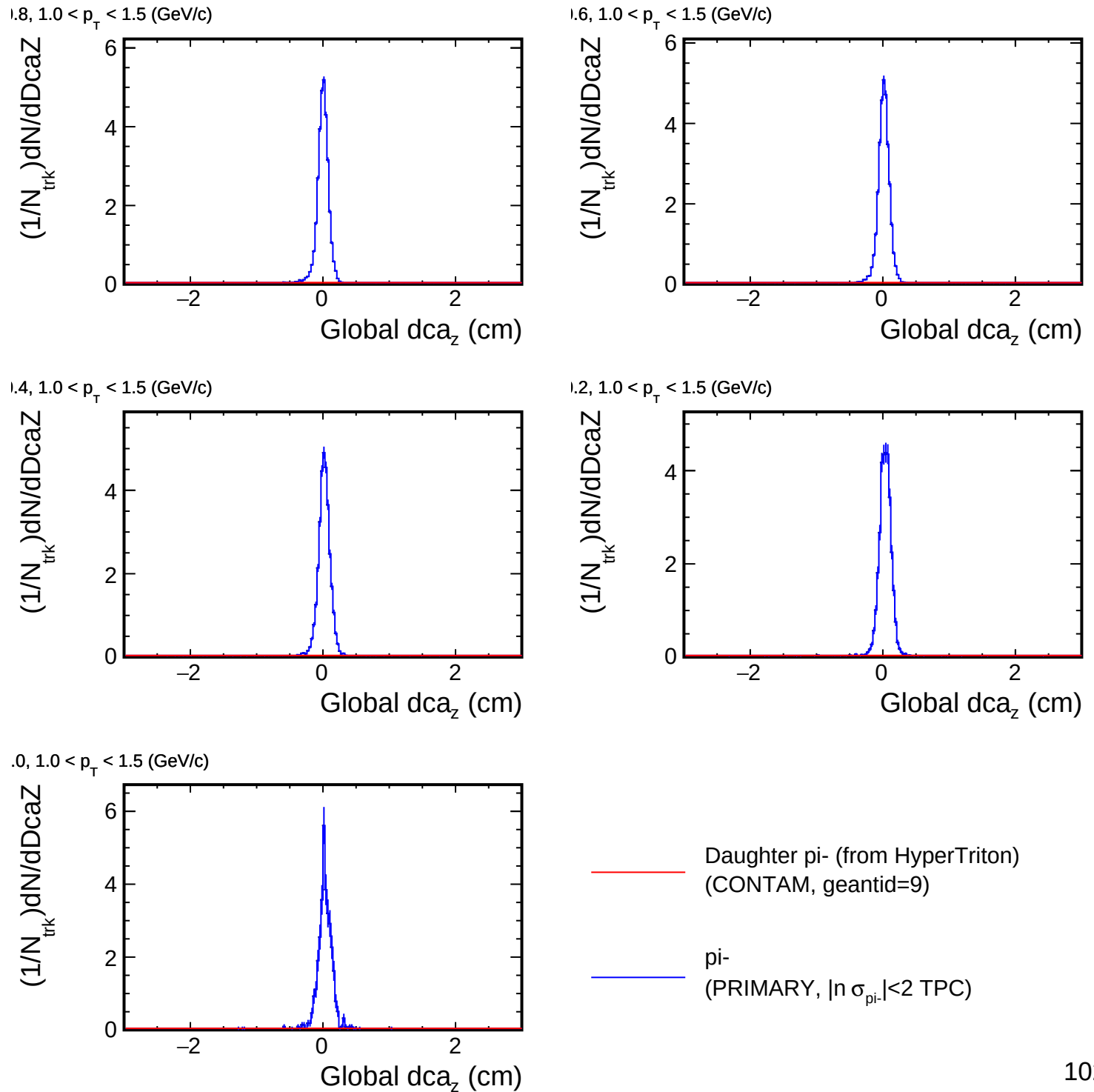
DcaZ distribution for (p_T , η) slices



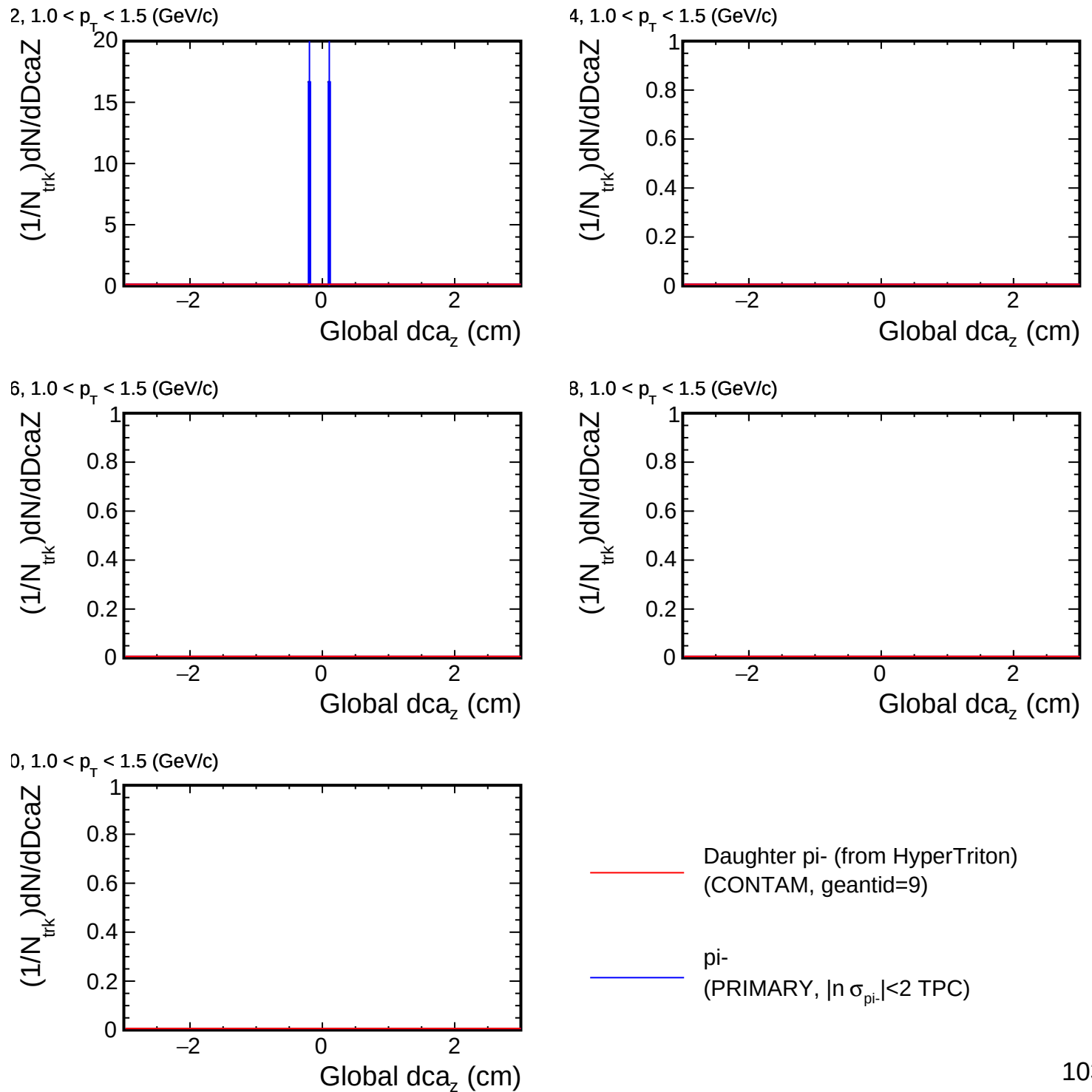
DcaZ distribution for (p_T , η) slices



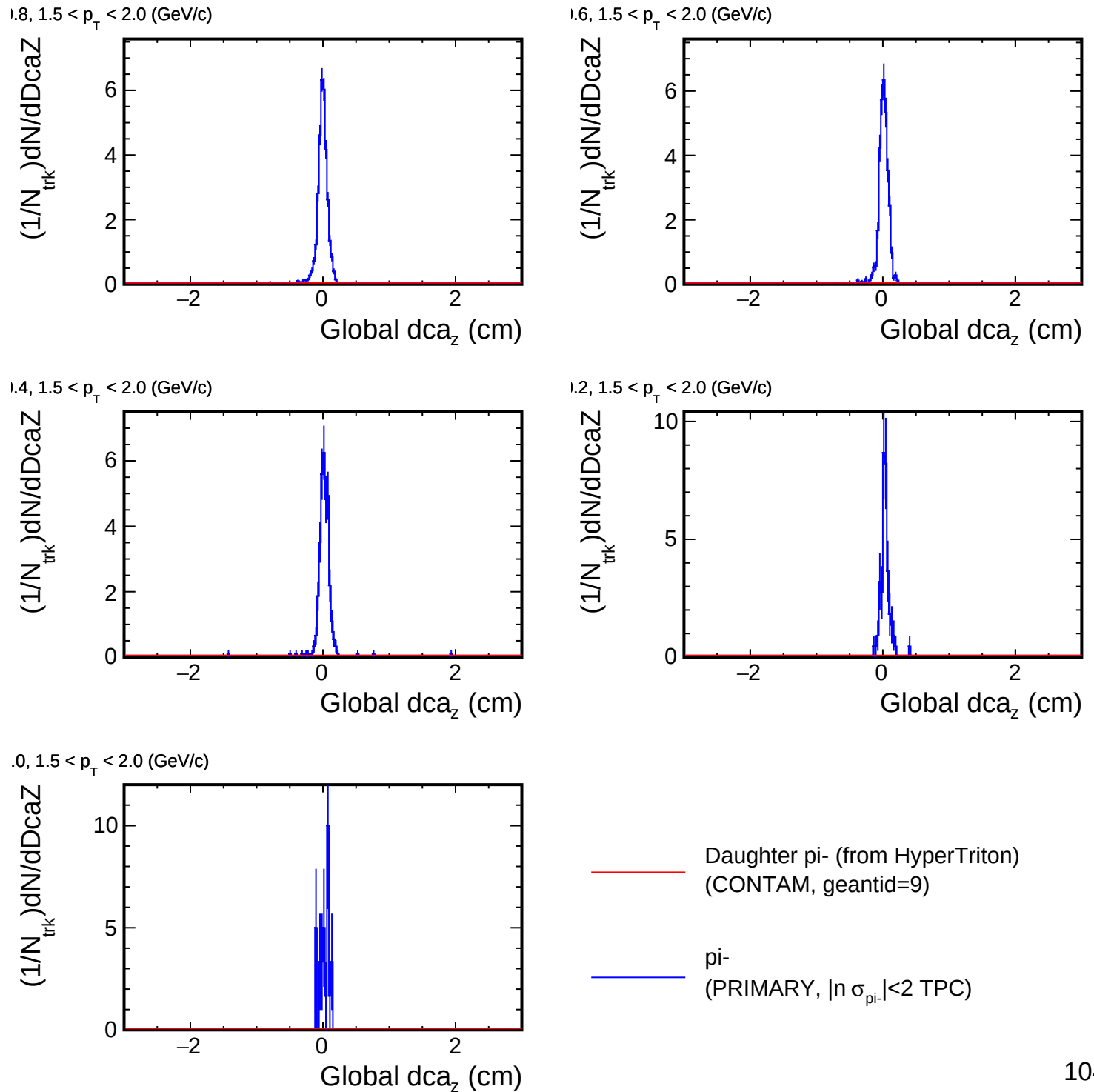
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

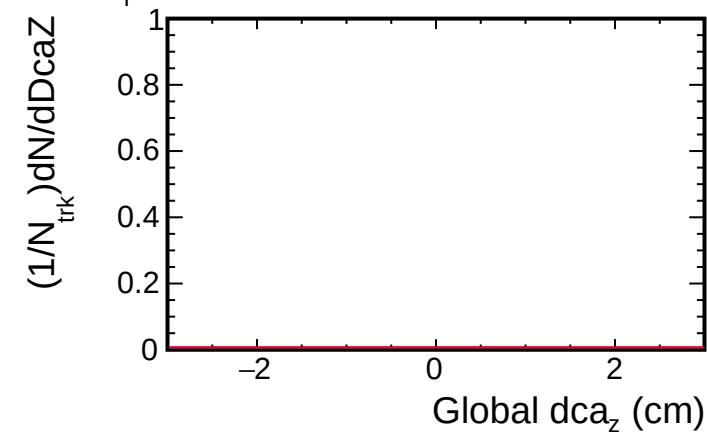


DcaZ distribution for (p_T , η) slices

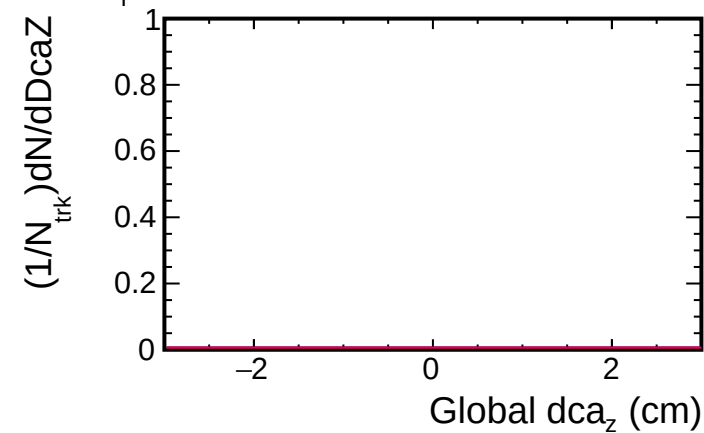


DcaZ distribution for (p_T , η) slices

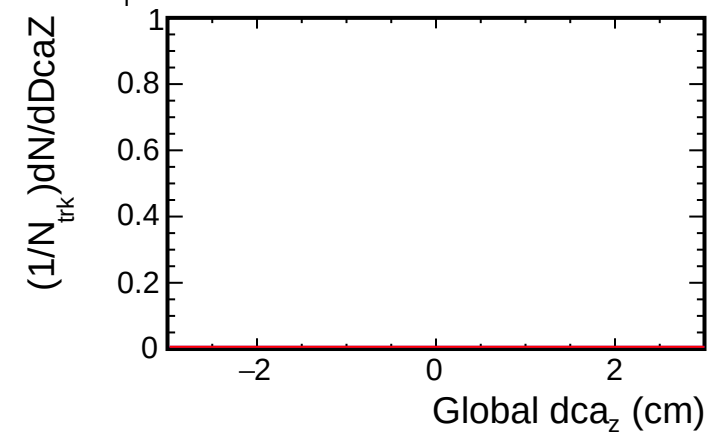
2, $1.5 < p_T < 2.0$ (GeV/c)



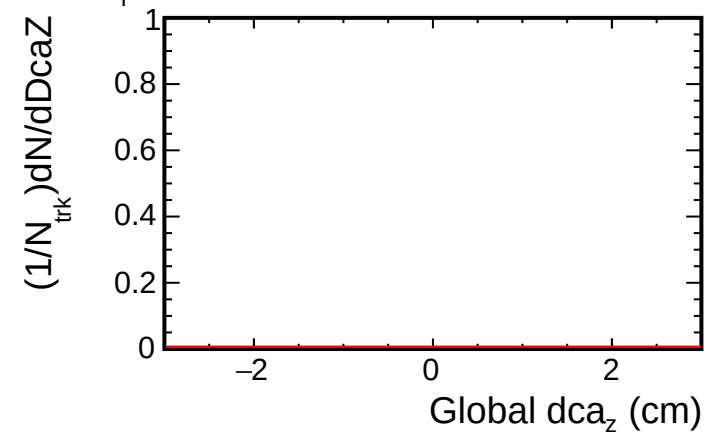
4, $1.5 < p_T < 2.0$ (GeV/c)



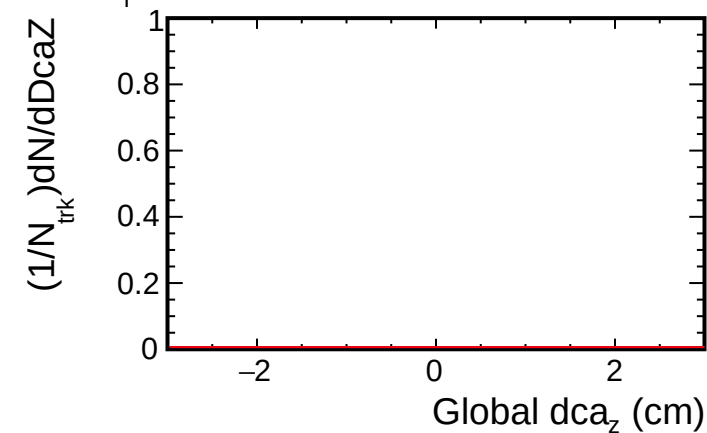
6, $1.5 < p_T < 2.0$ (GeV/c)



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



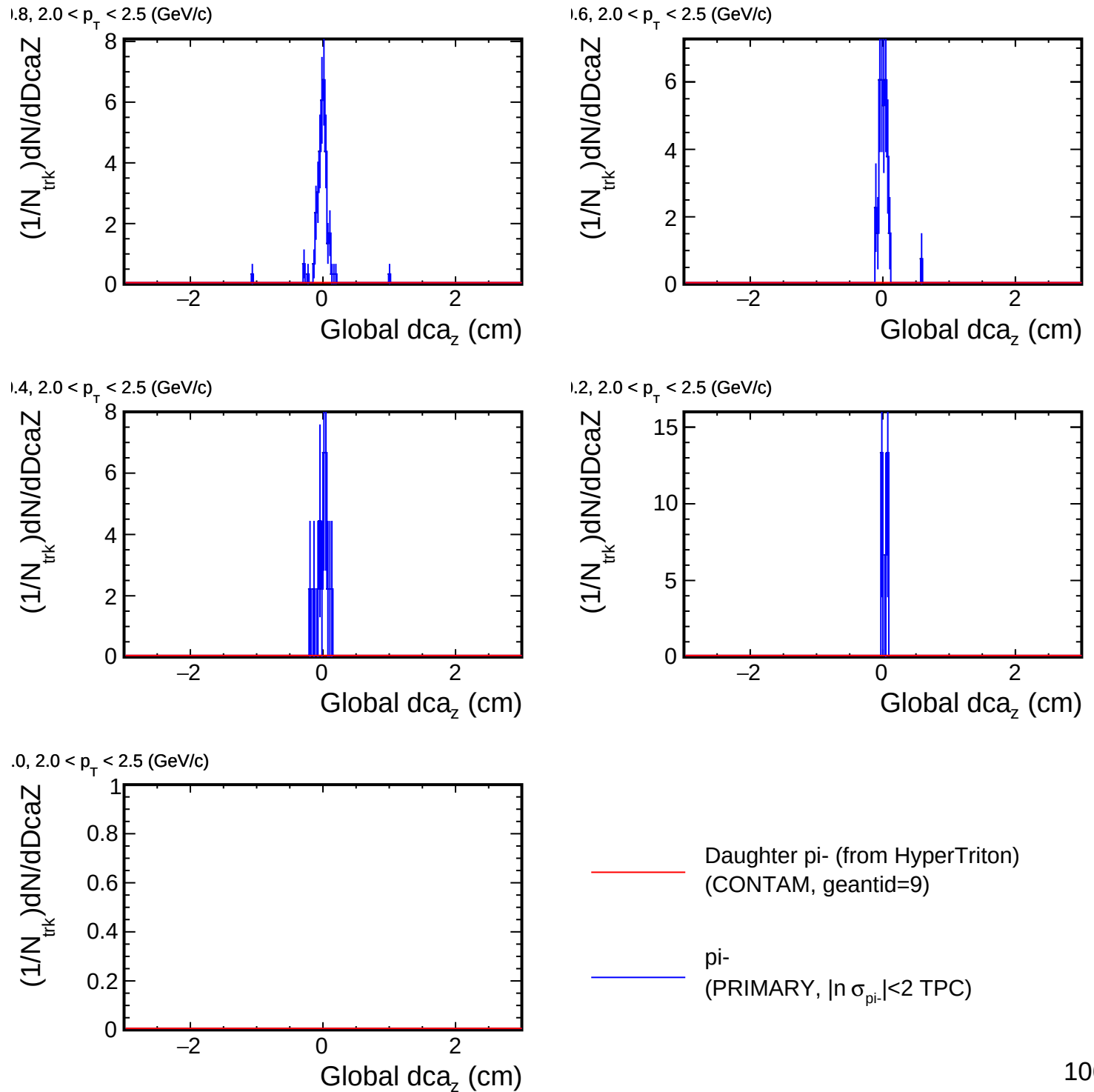
0, $1.5 < p_T < 2.0$ (GeV/c)



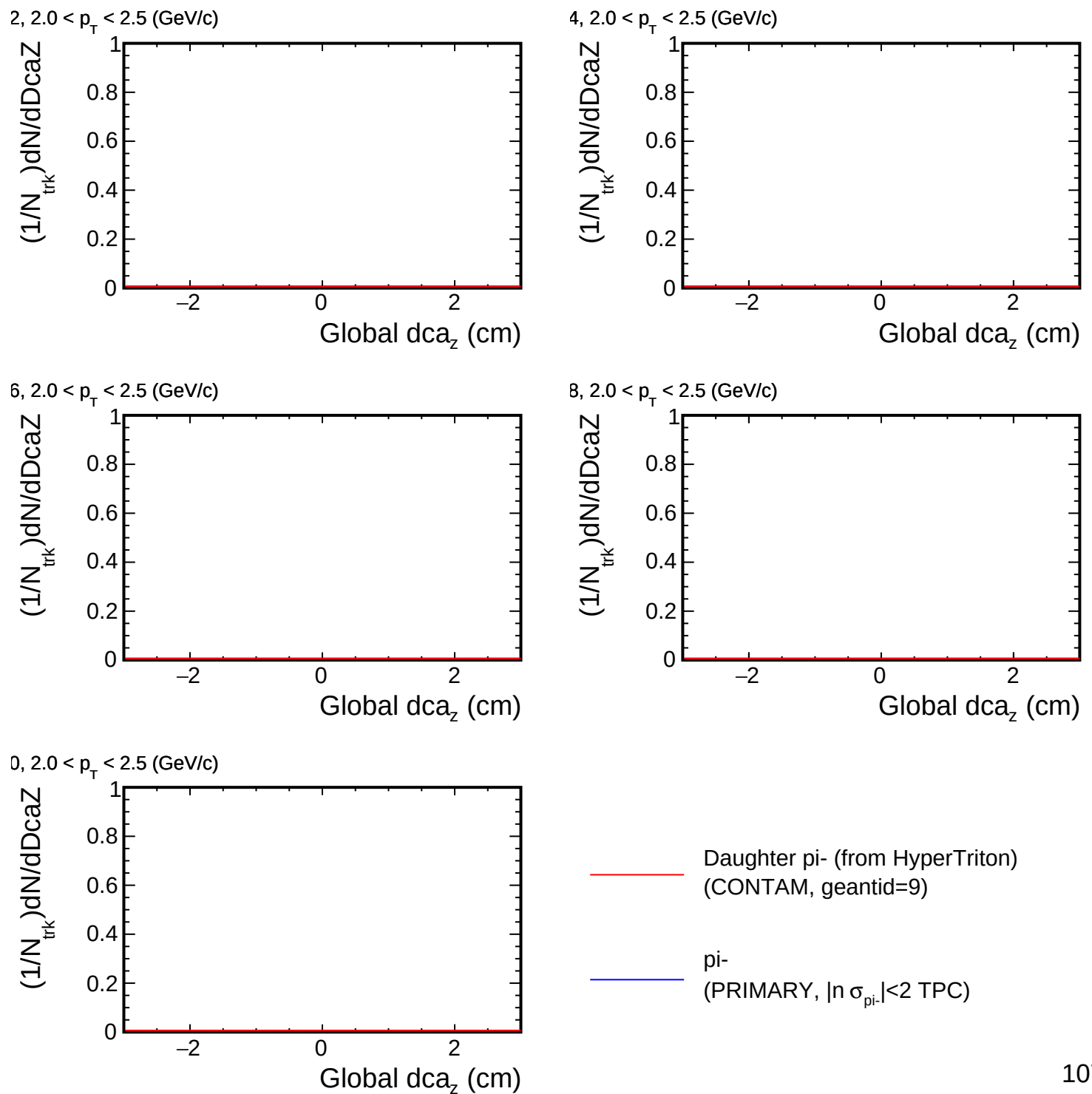
— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

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

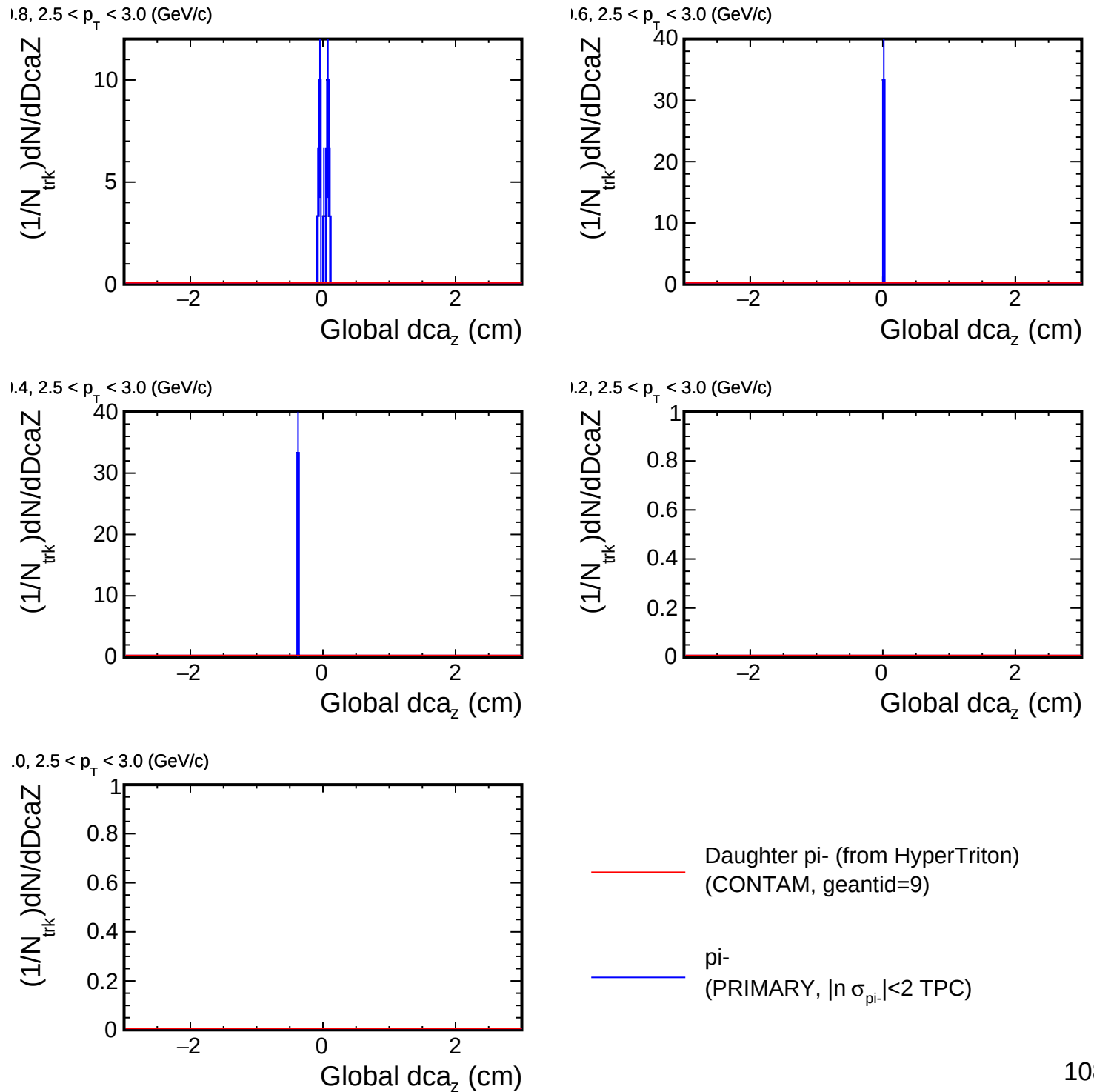
DcaZ distribution for (p_T , η) slices



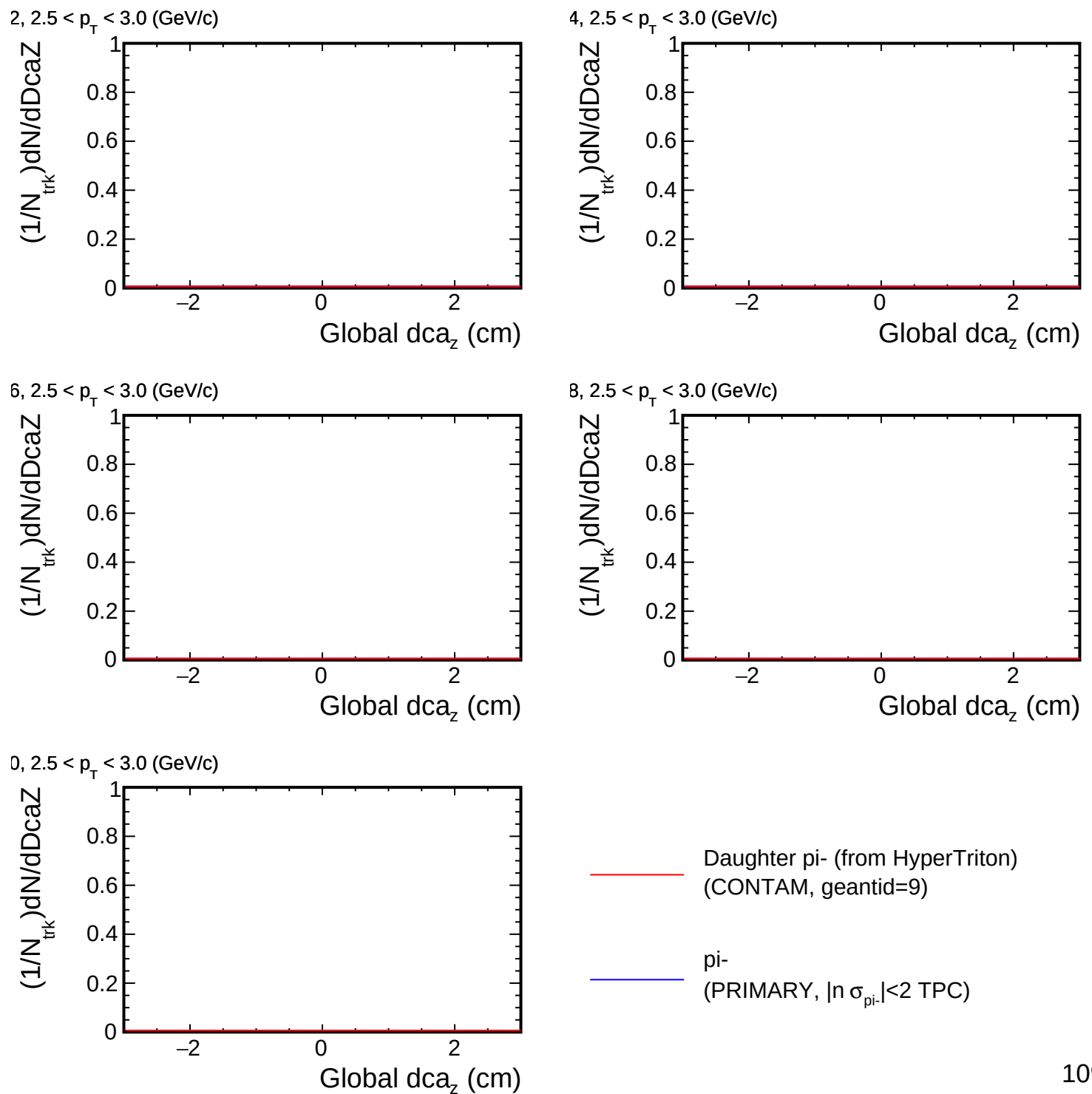
DcaZ distribution for (p_T , η) slices



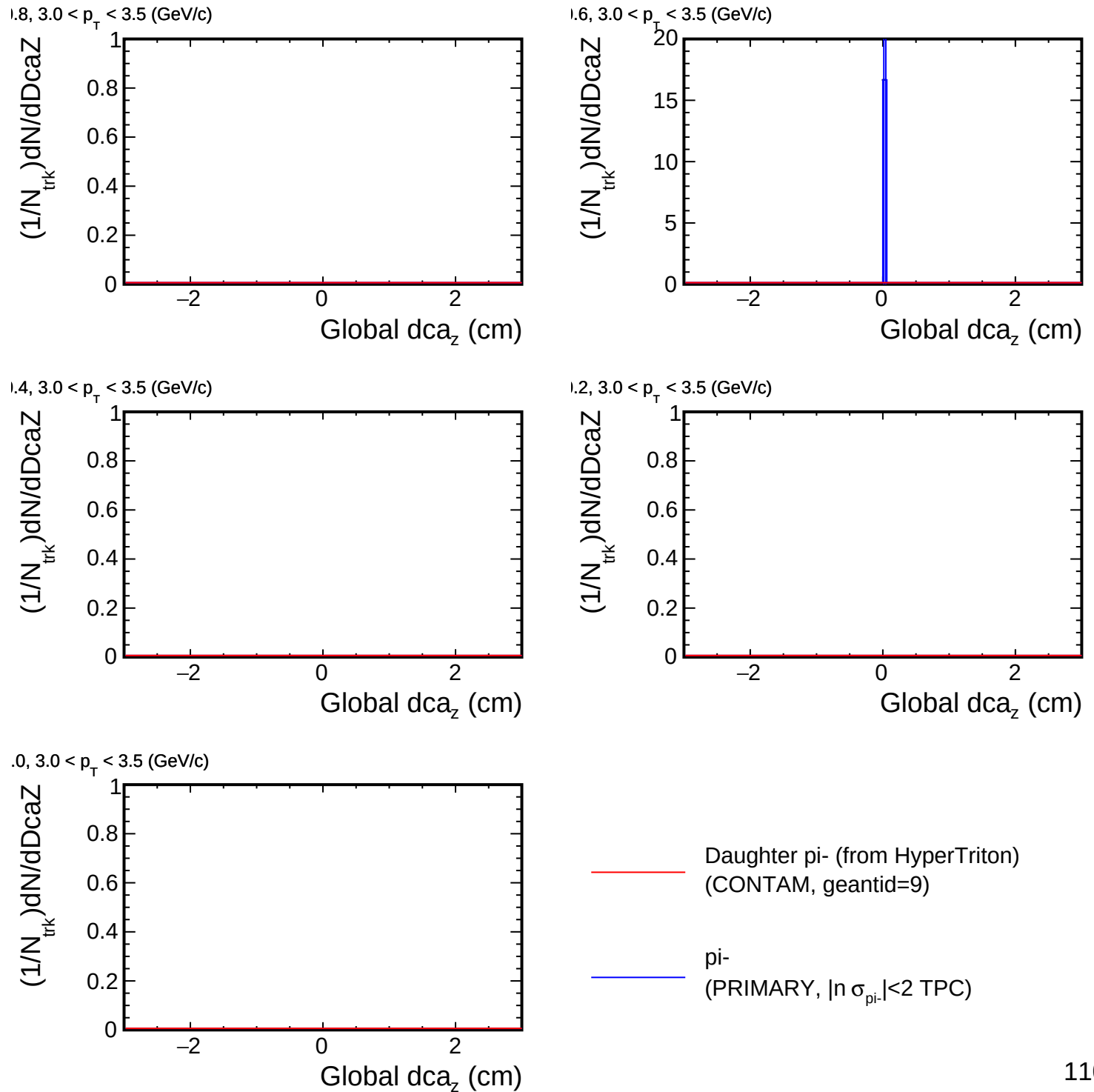
DcaZ distribution for (p_T , η) slices



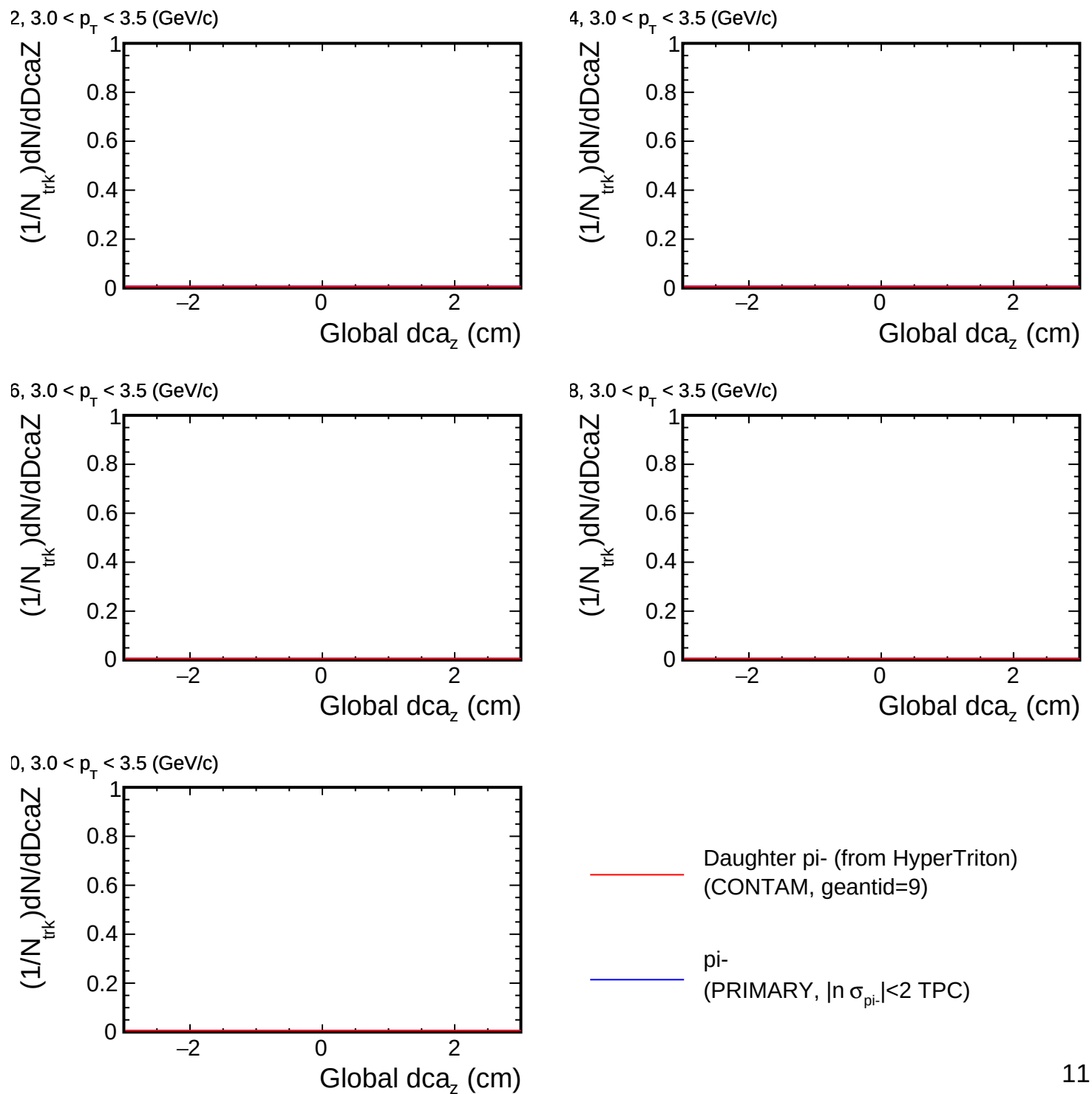
DcaZ distribution for (p_T , η) slices



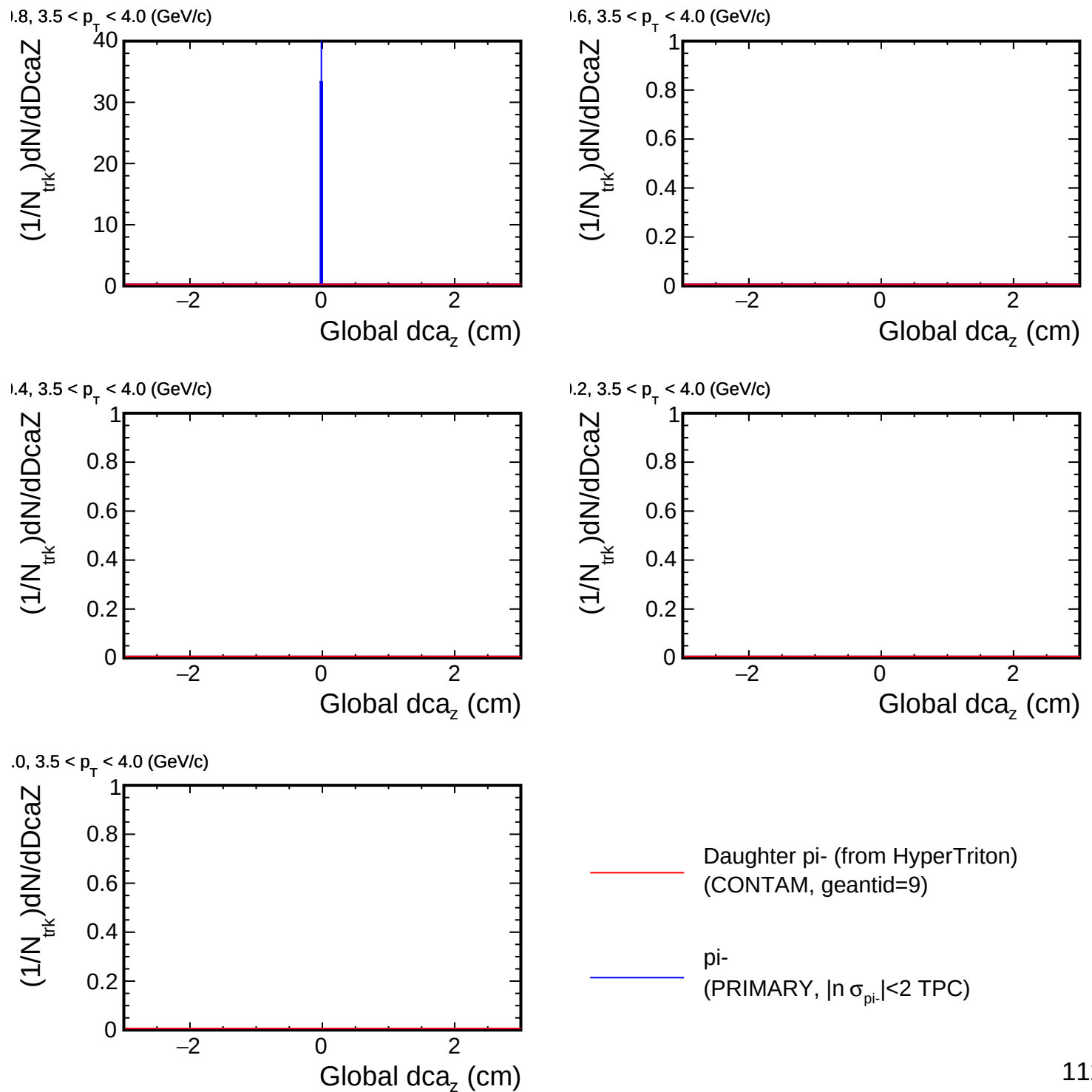
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

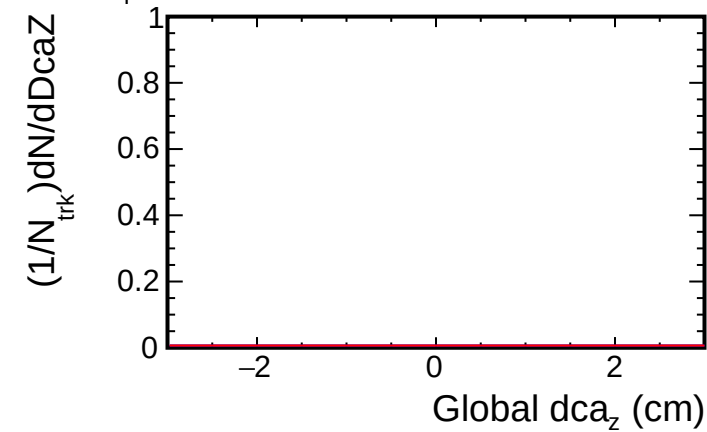


DcaZ distribution for (p_T , η) slices

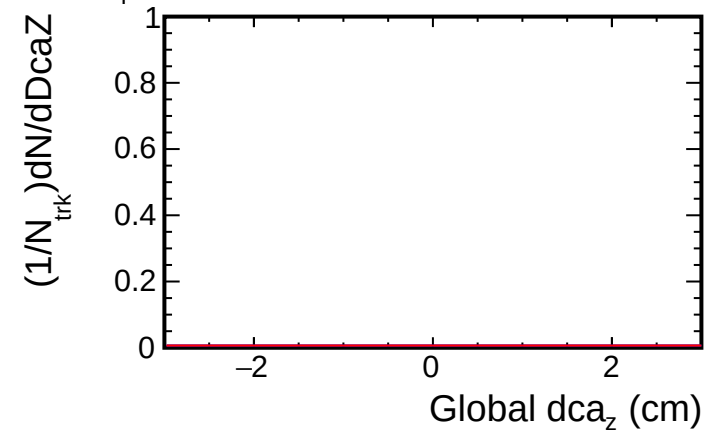


DcaZ distribution for (p_T , η) slices

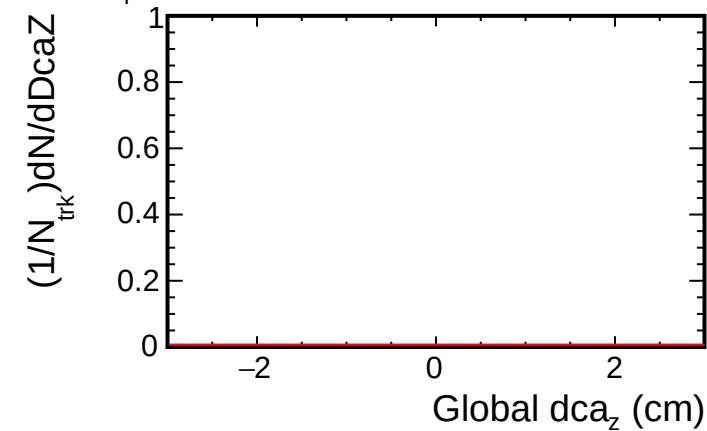
2, $3.5 < p_T < 4.0$ (GeV/c)



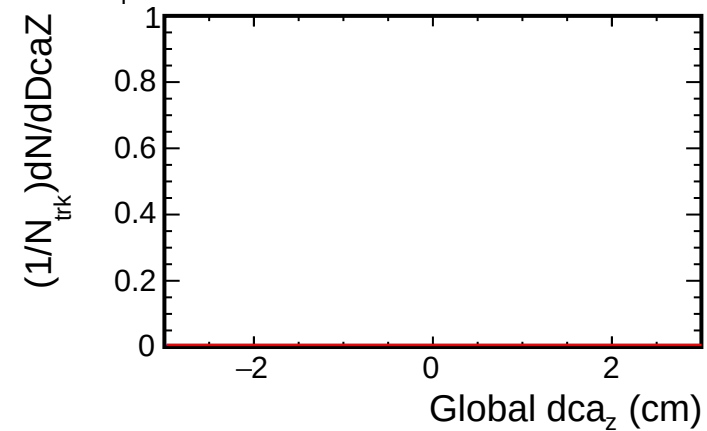
4, $3.5 < p_T < 4.0$ (GeV/c)



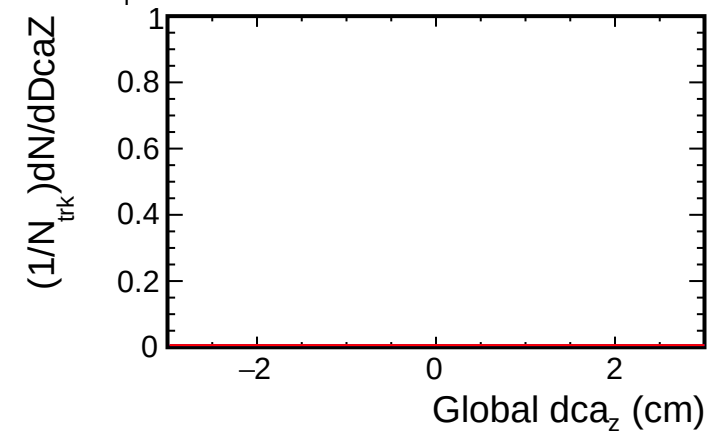
6, $3.5 < p_T < 4.0$ (GeV/c)



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



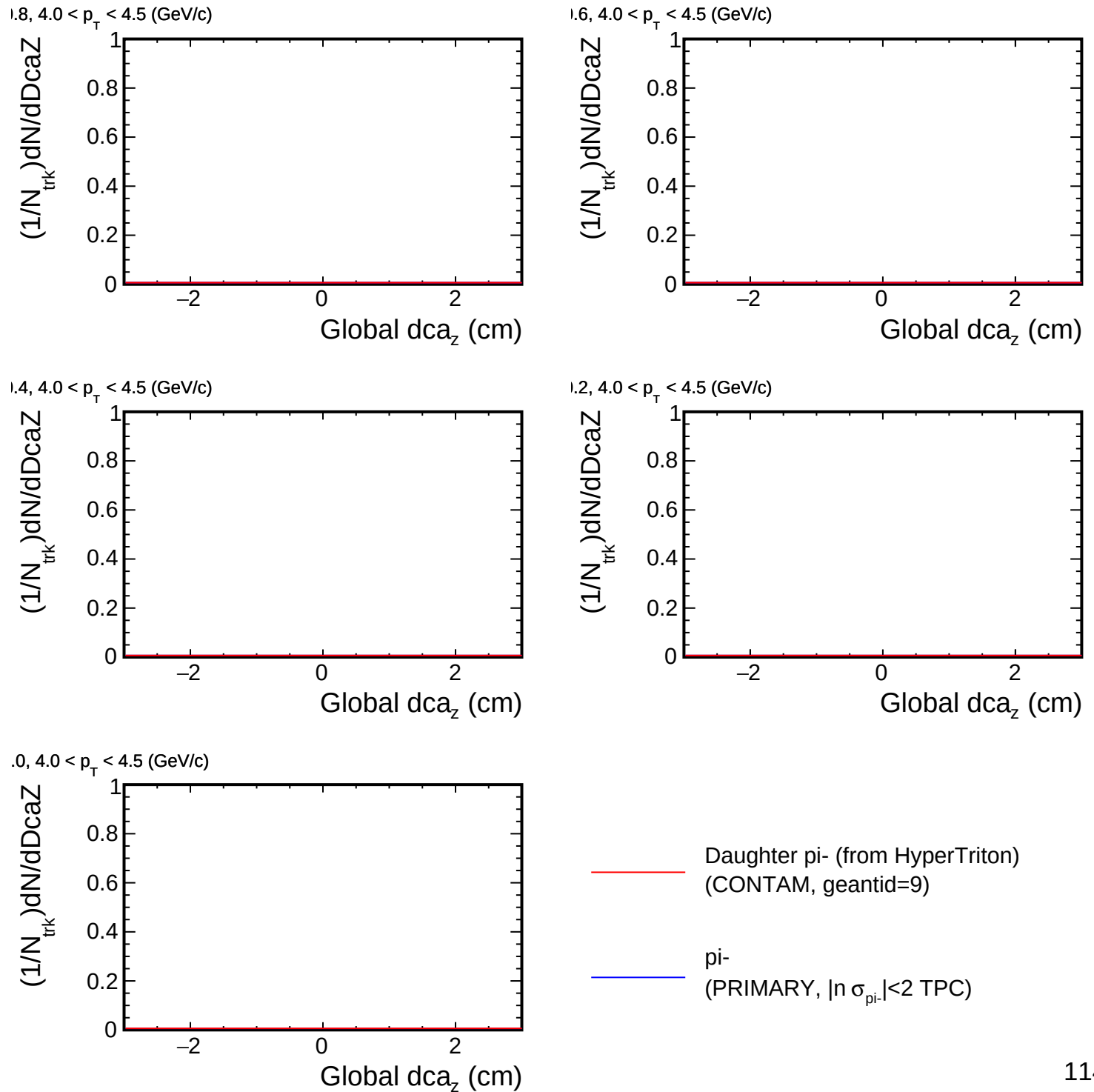
0, $3.5 < p_T < 4.0$ (GeV/c)



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

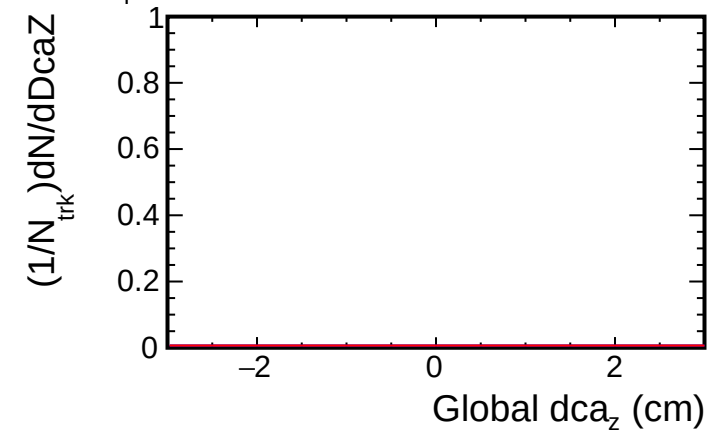
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

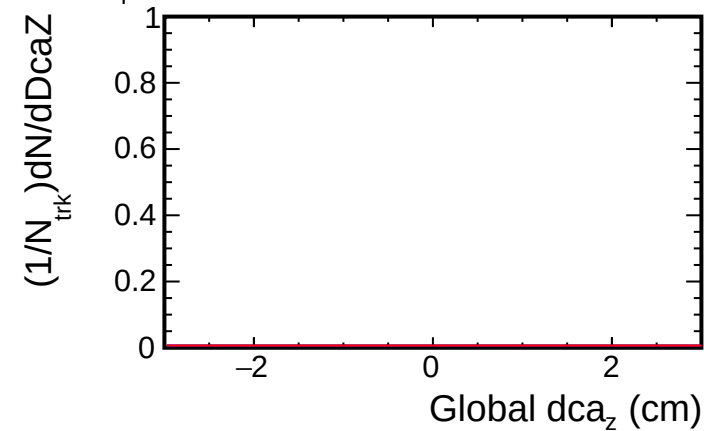


DcaZ distribution for (p_T , η) slices

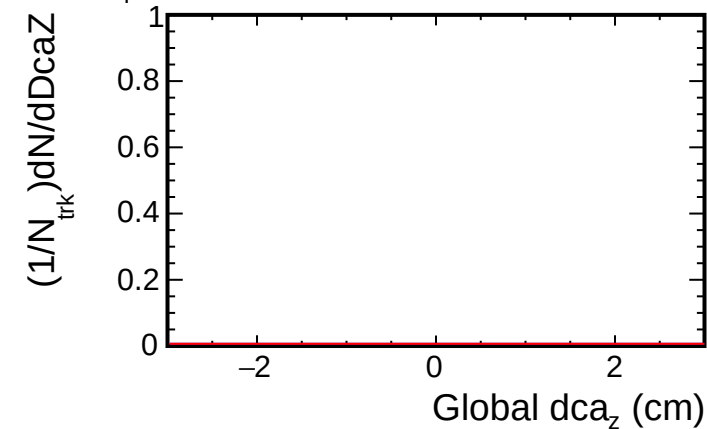
2, $4.0 < p_T < 4.5$ (GeV/c)



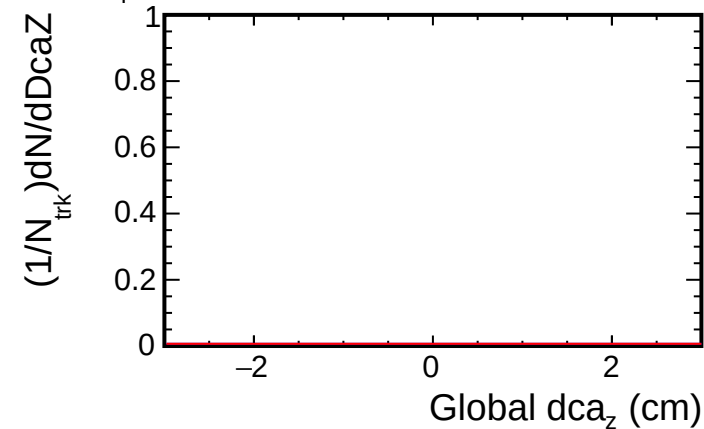
4, $4.0 < p_T < 4.5$ (GeV/c)



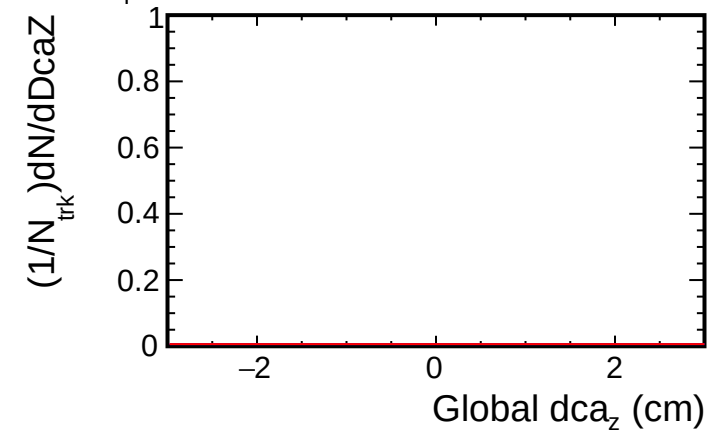
6, $4.0 < p_T < 4.5$ (GeV/c)



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



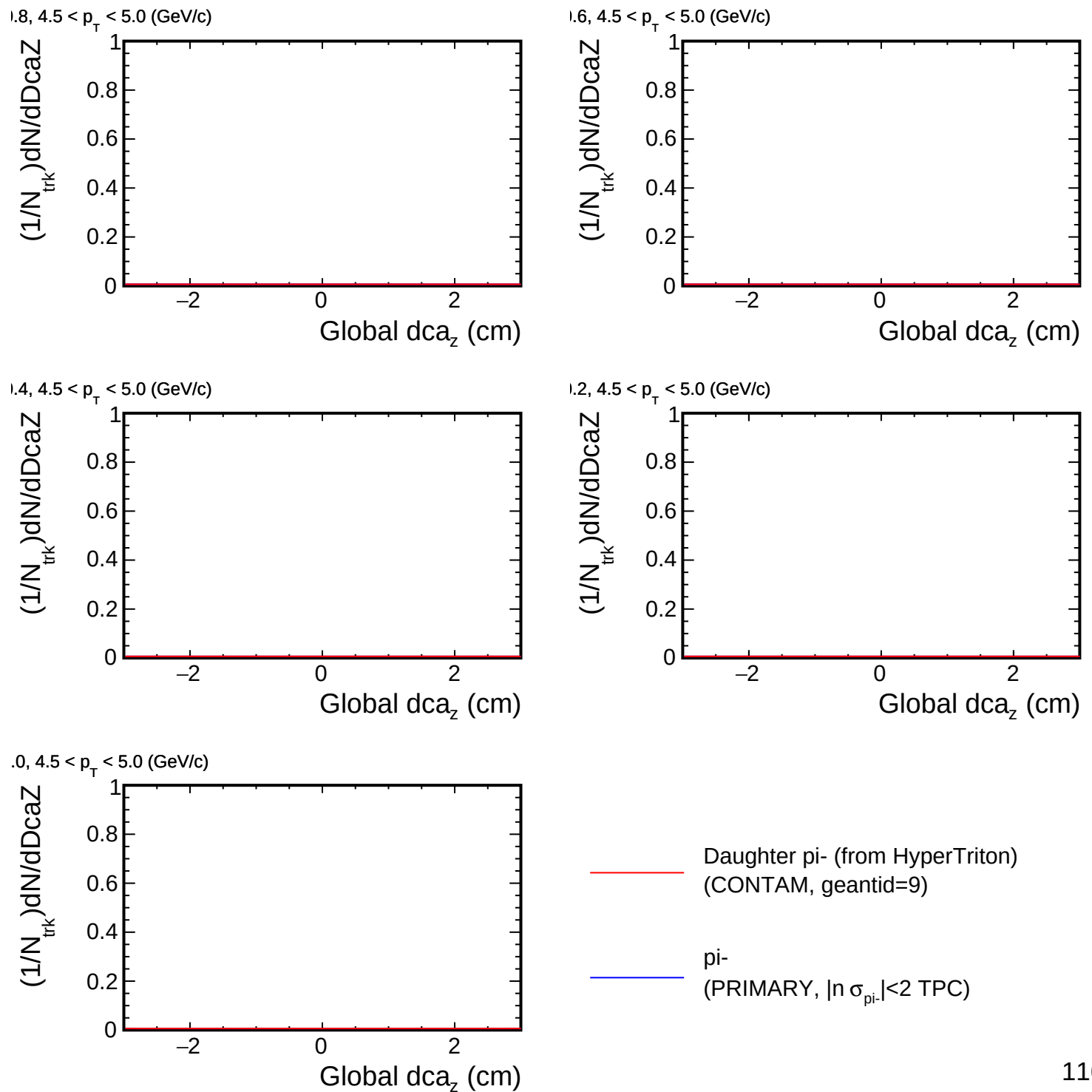
0, $4.0 < p_T < 4.5$ (GeV/c)



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

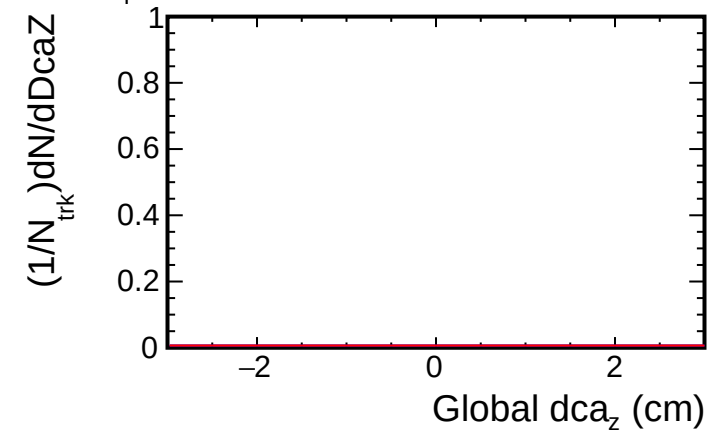
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

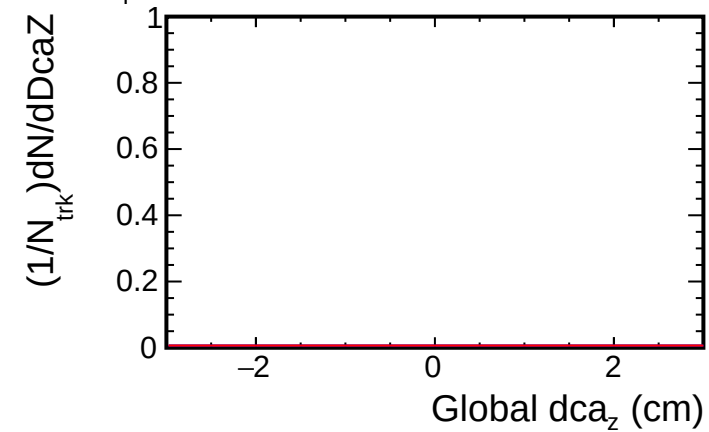


DcaZ distribution for (p_T , η) slices

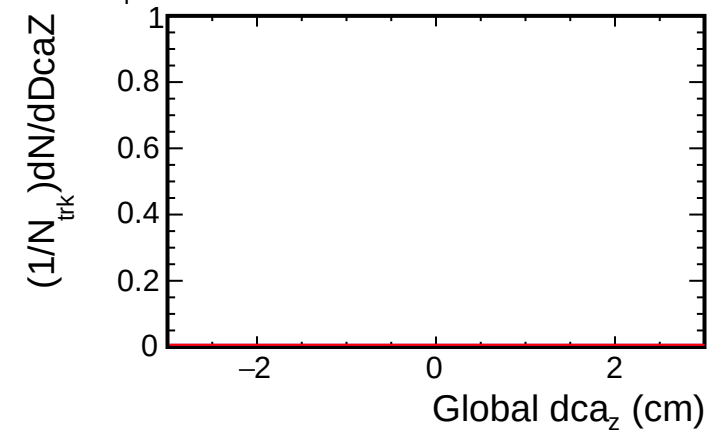
2, $4.5 < p_T < 5.0$ (GeV/c)



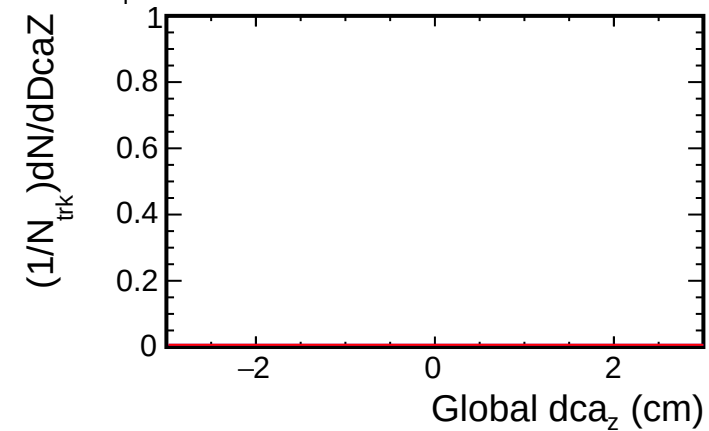
4, $4.5 < p_T < 5.0$ (GeV/c)



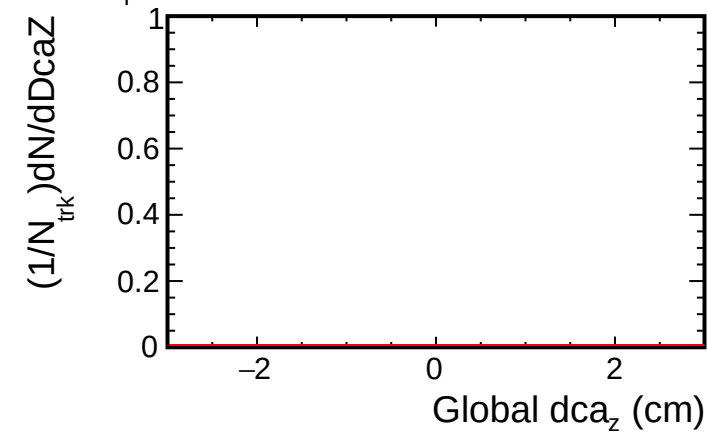
6, $4.5 < p_T < 5.0$ (GeV/c)



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



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

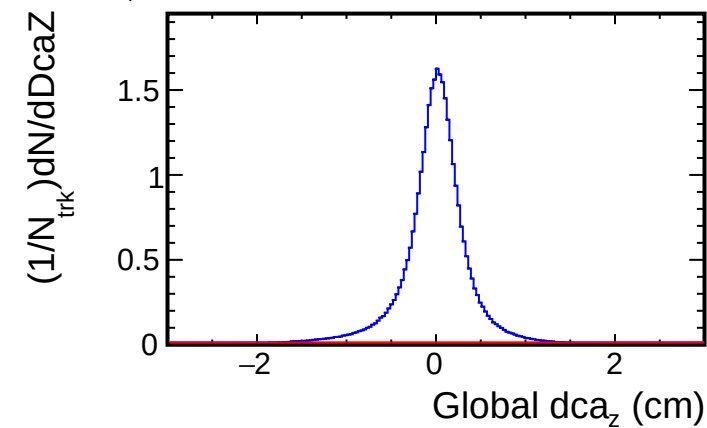


— Daughter π^- (from HyperTriton)
(CONTAM, geantid=9)

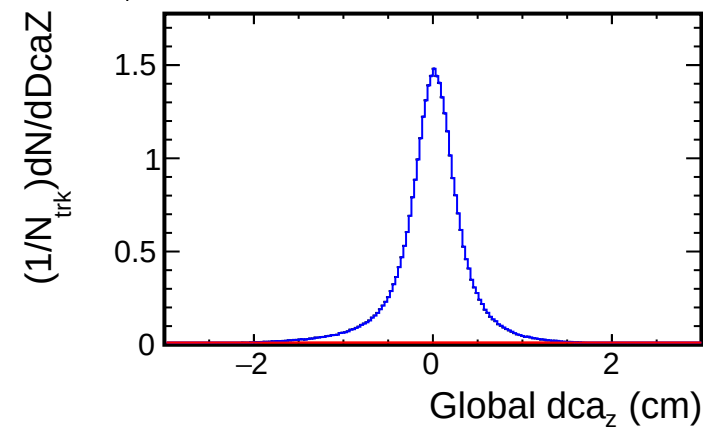
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

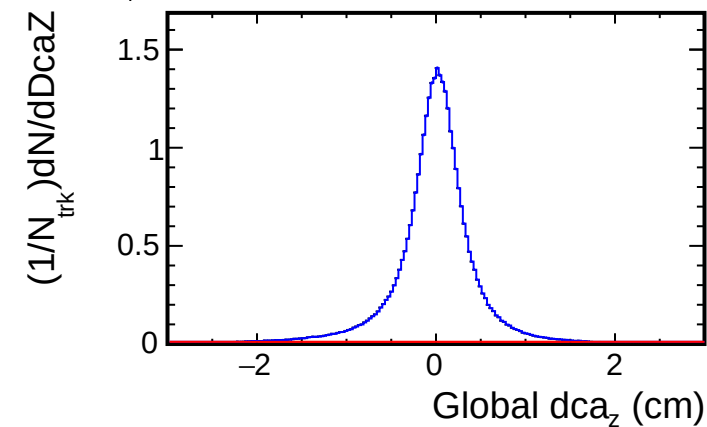
1.8, $0.1 < p_T < 0.5$ (GeV/c)



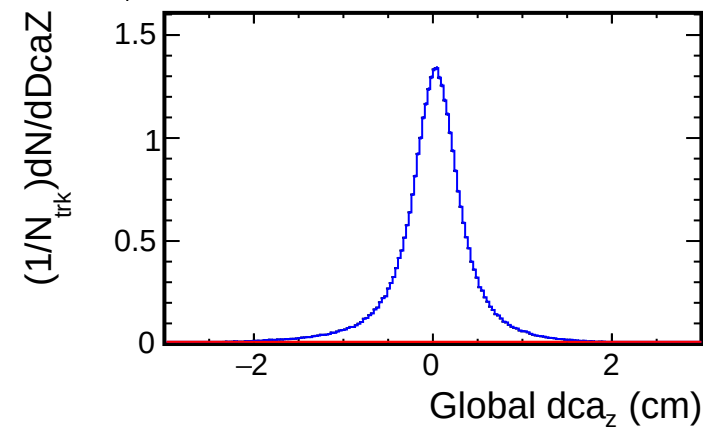
1.6, $0.1 < p_T < 0.5$ (GeV/c)



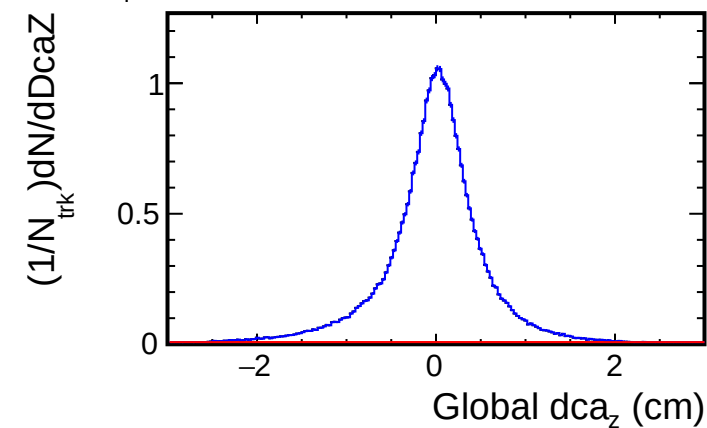
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



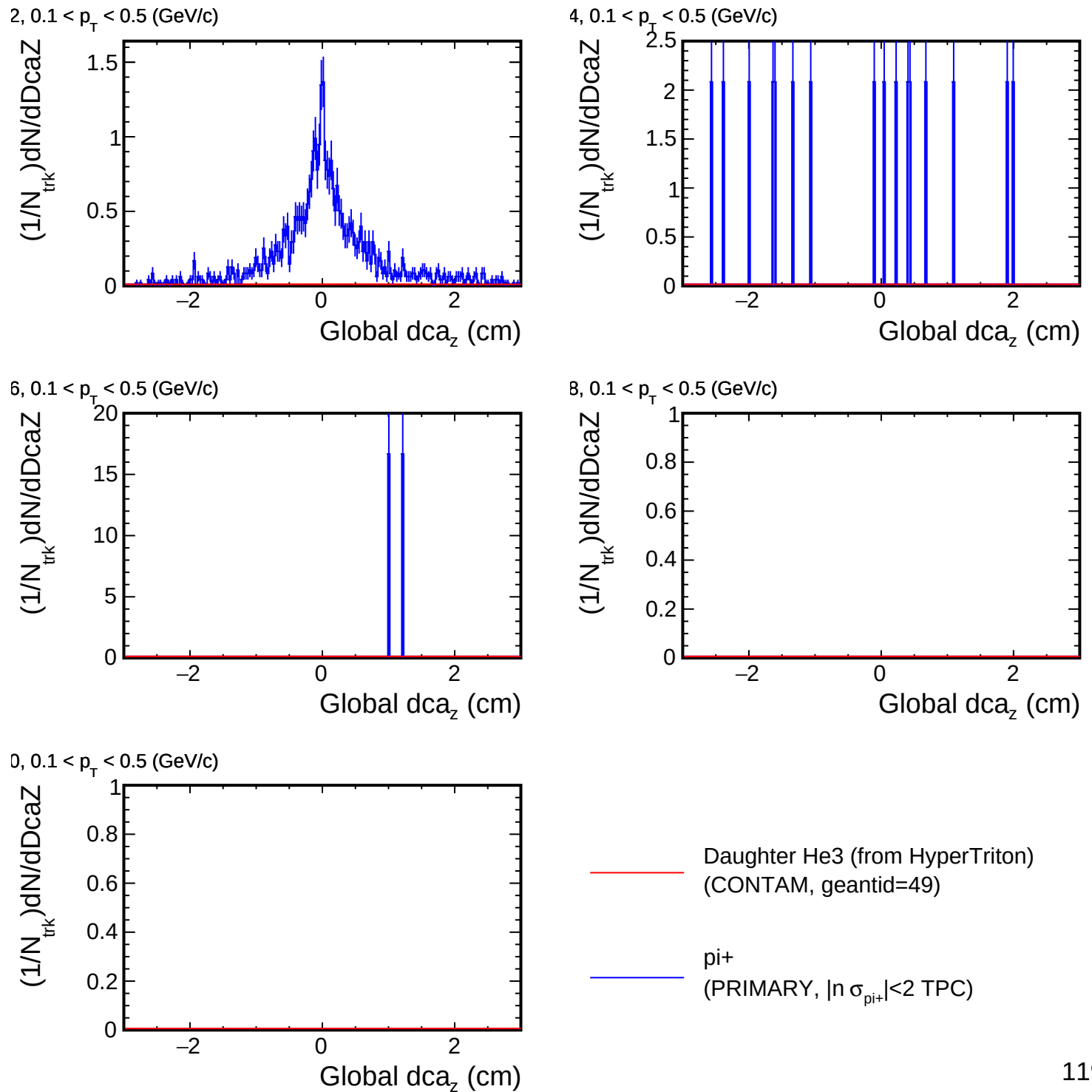
1.0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

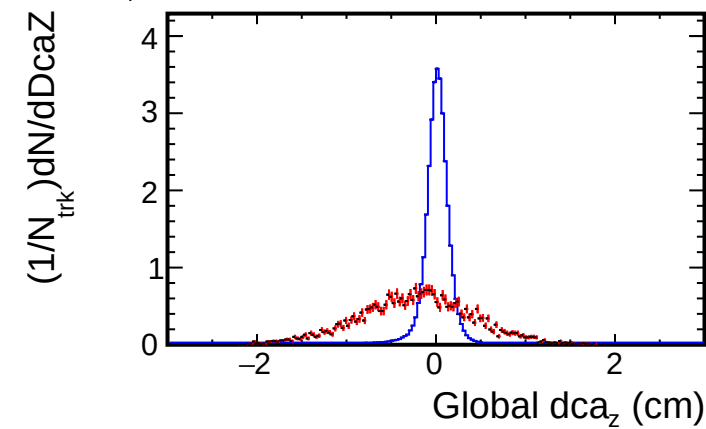
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

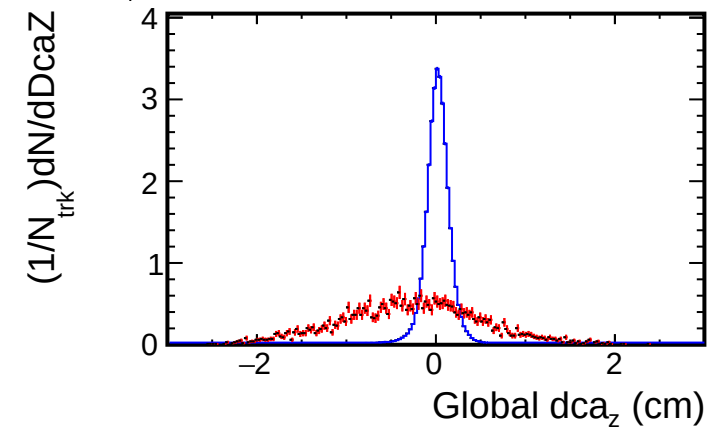


DcaZ distribution for (p_T , η) slices

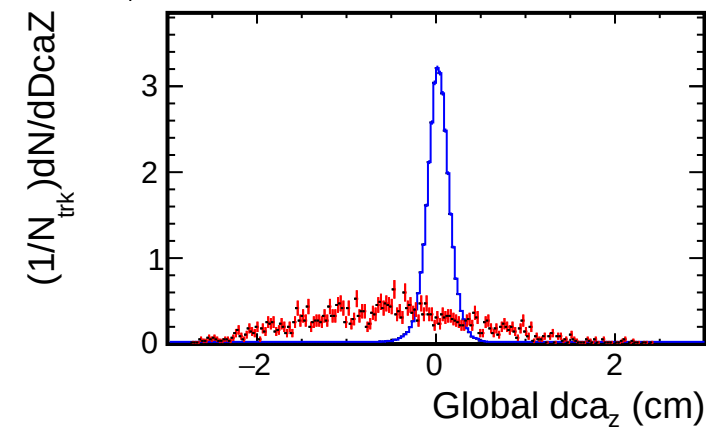
1.8, $0.5 < p_T < 1.0$ (GeV/c)



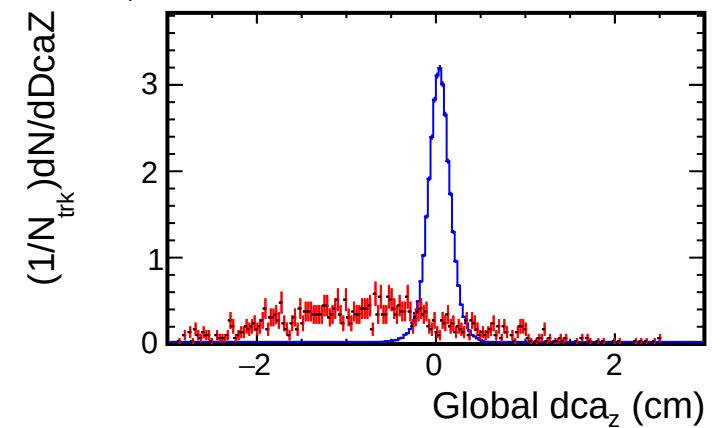
1.6, $0.5 < p_T < 1.0$ (GeV/c)



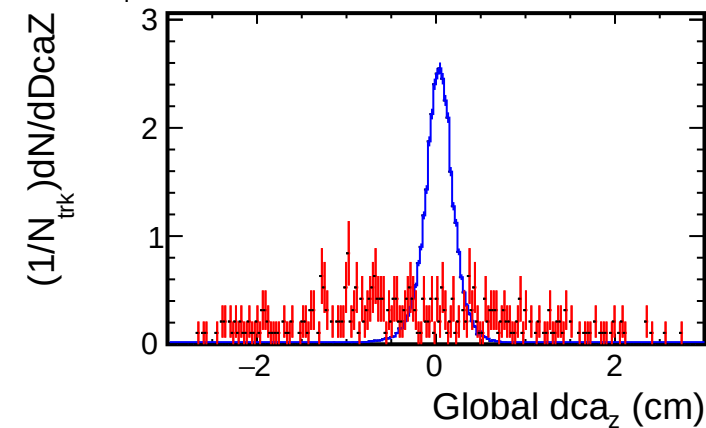
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



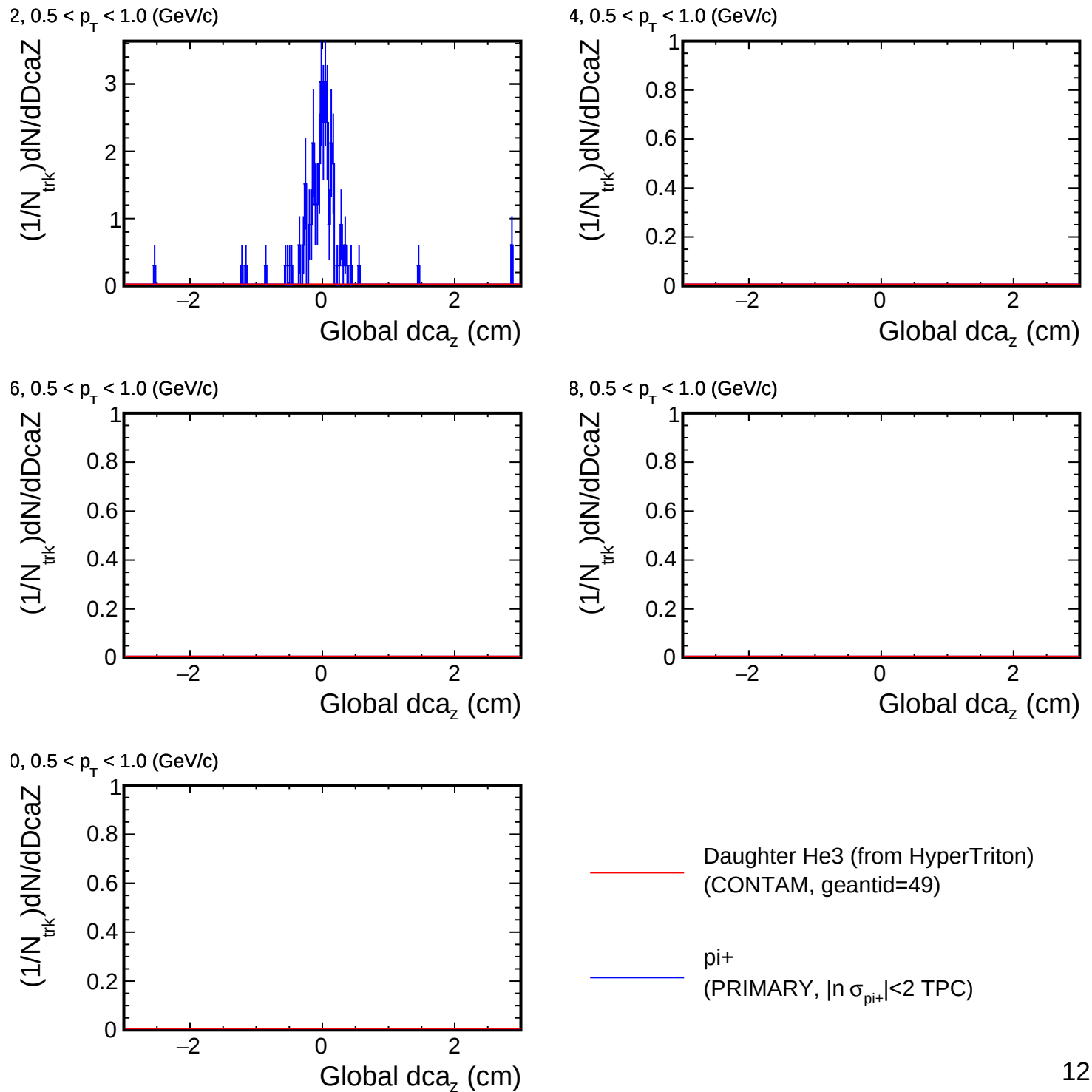
1.0, $0.5 < p_T < 1.0$ (GeV/c)



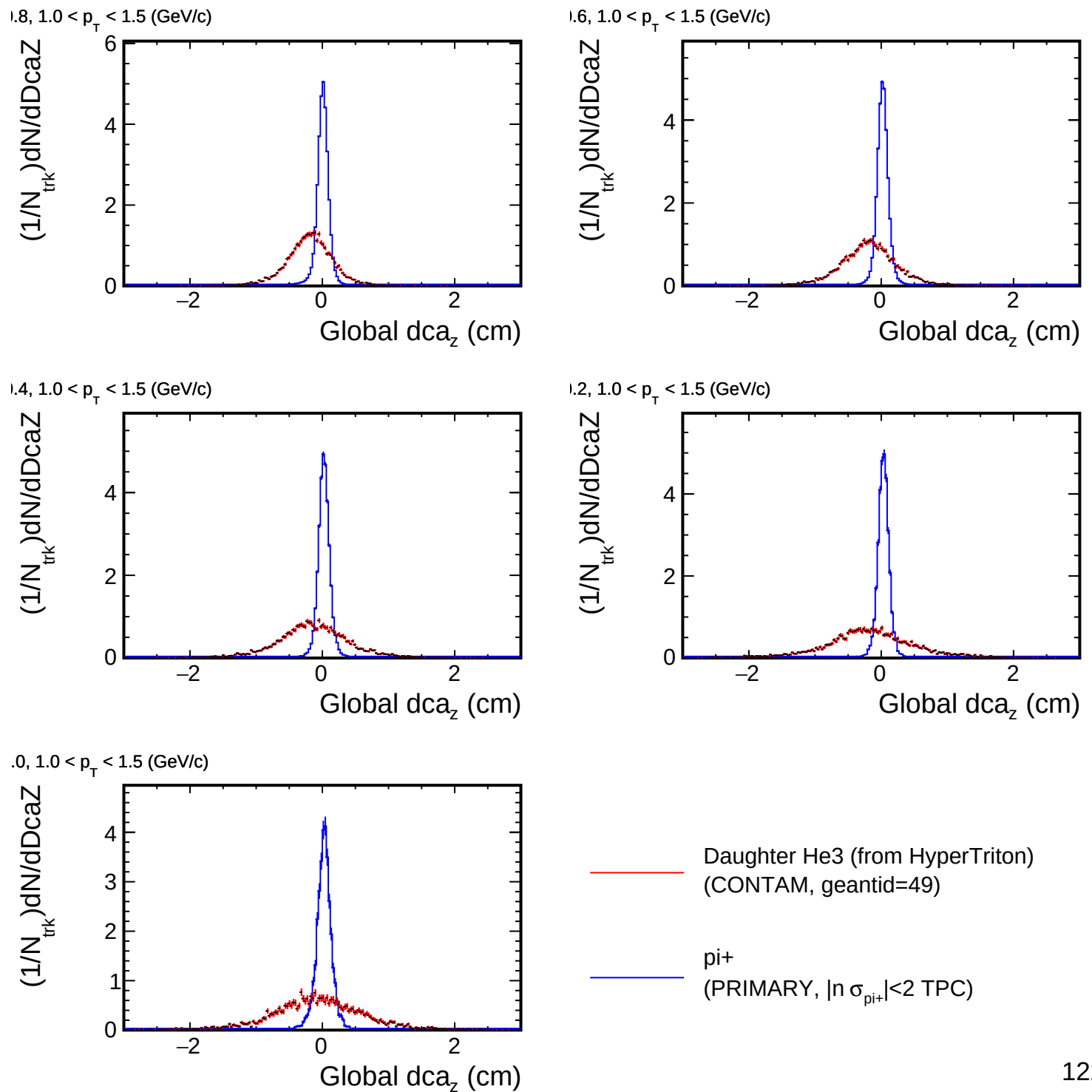
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

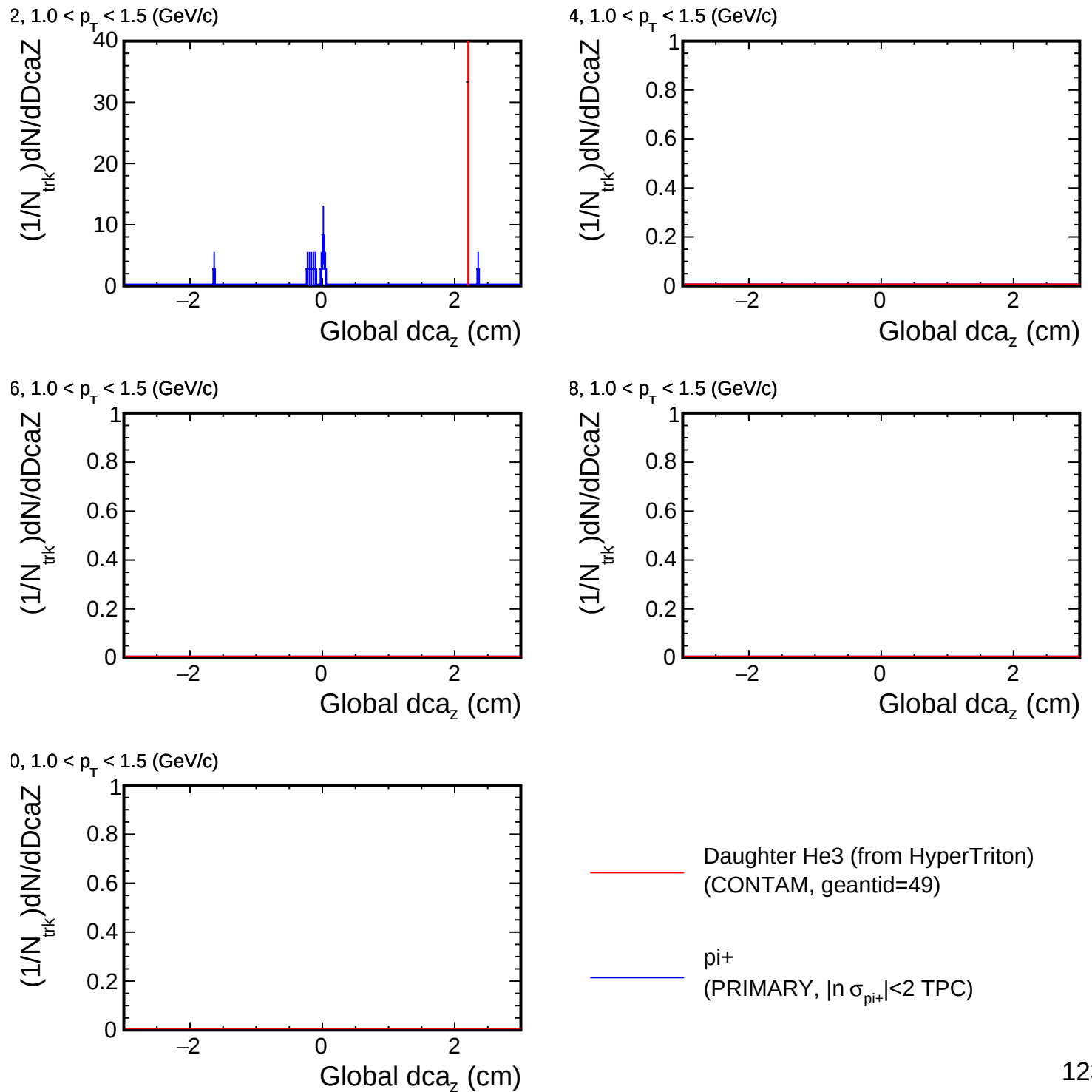
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

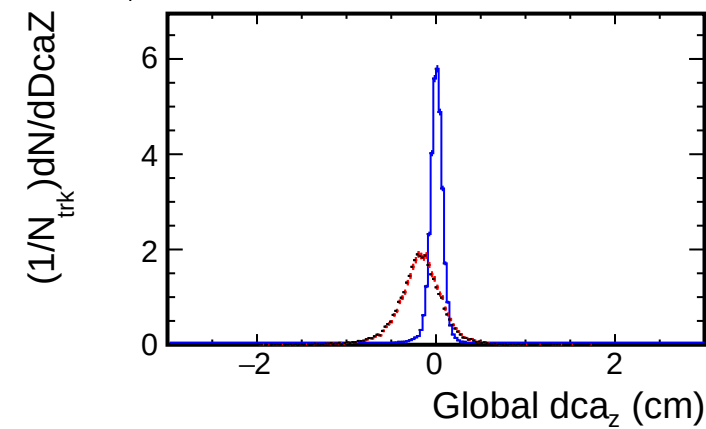


DcaZ distribution for (p_T , η) slices

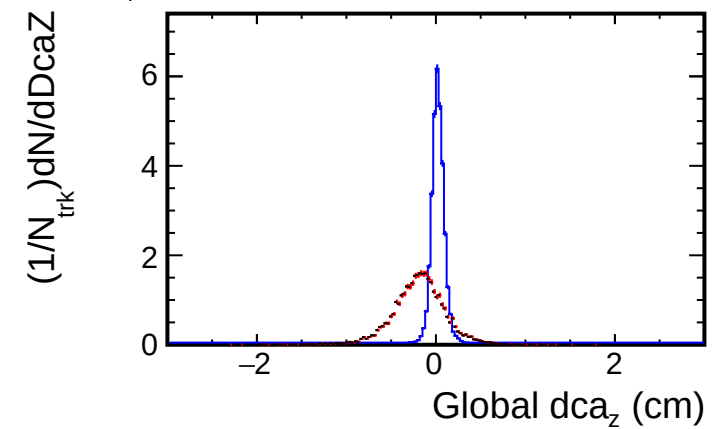


DcaZ distribution for (p_T , η) slices

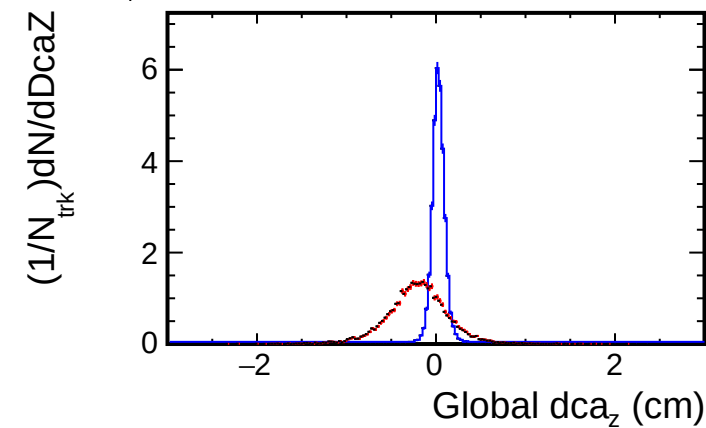
1.8, $1.5 < p_T < 2.0$ (GeV/c)



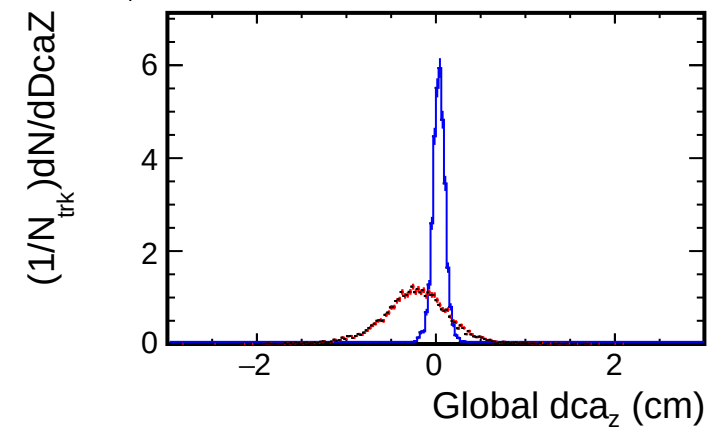
1.6, $1.5 < p_T < 2.0$ (GeV/c)



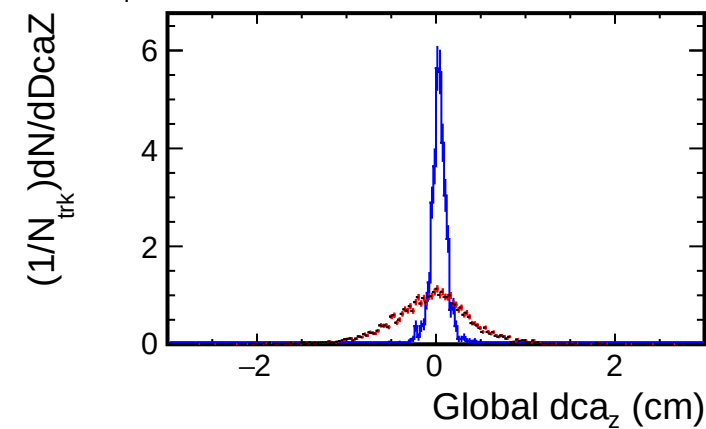
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



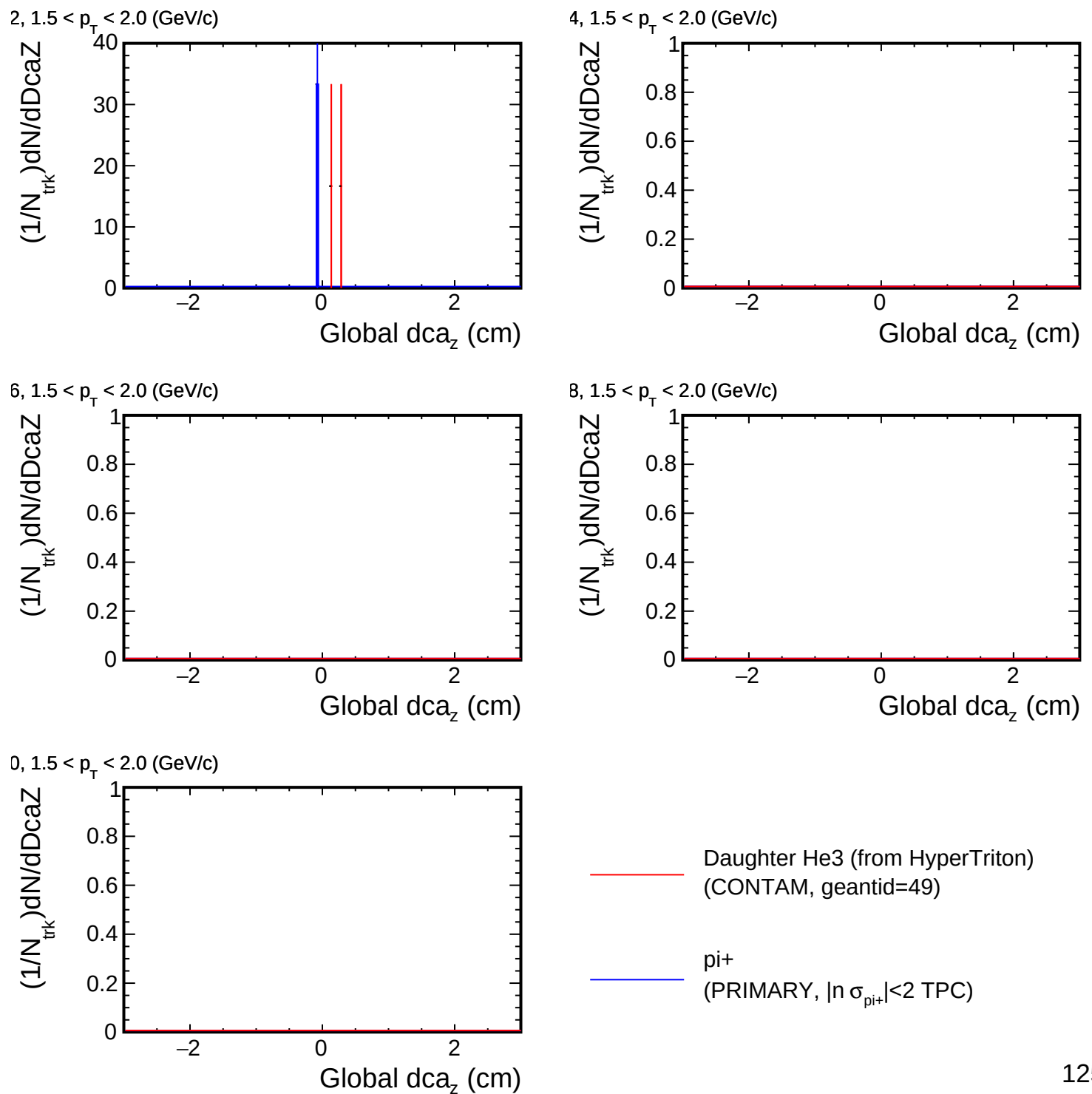
1.0, $1.5 < p_T < 2.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

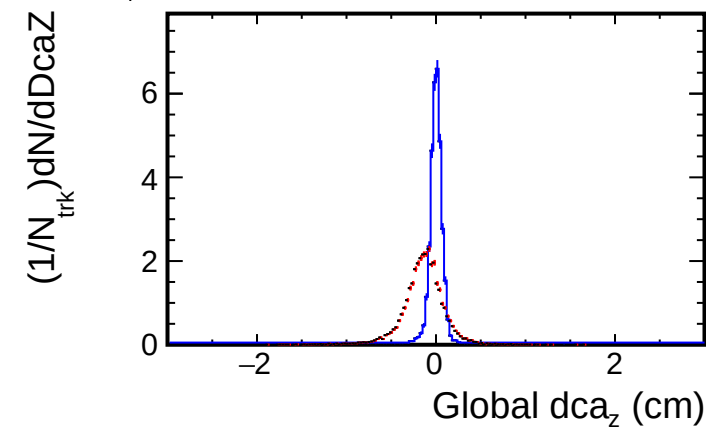
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

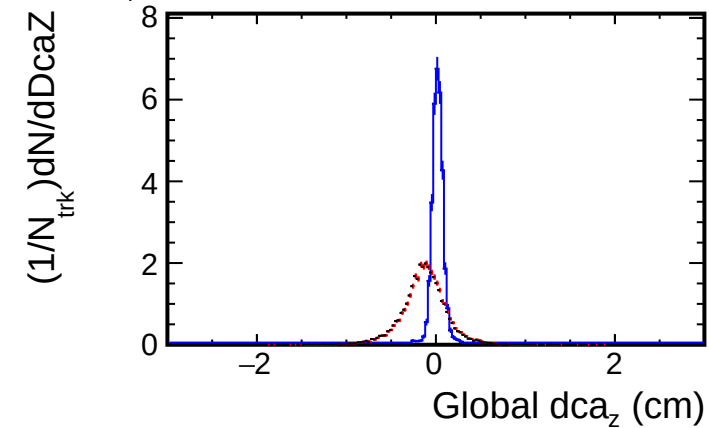


DcaZ distribution for (p_T , η) slices

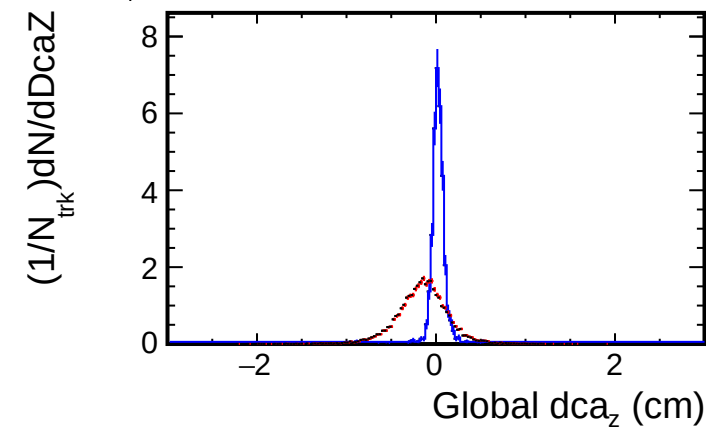
1.8, $2.0 < p_T < 2.5$ (GeV/c)



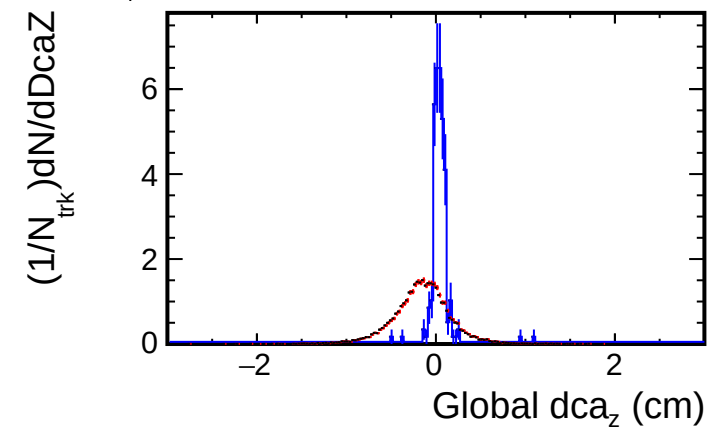
1.6, $2.0 < p_T < 2.5$ (GeV/c)



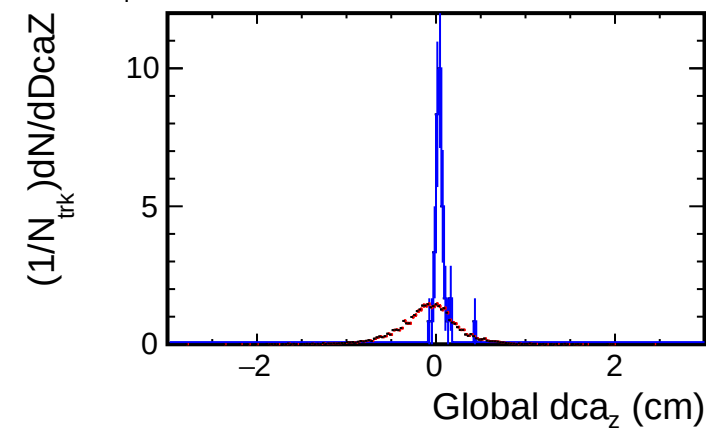
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



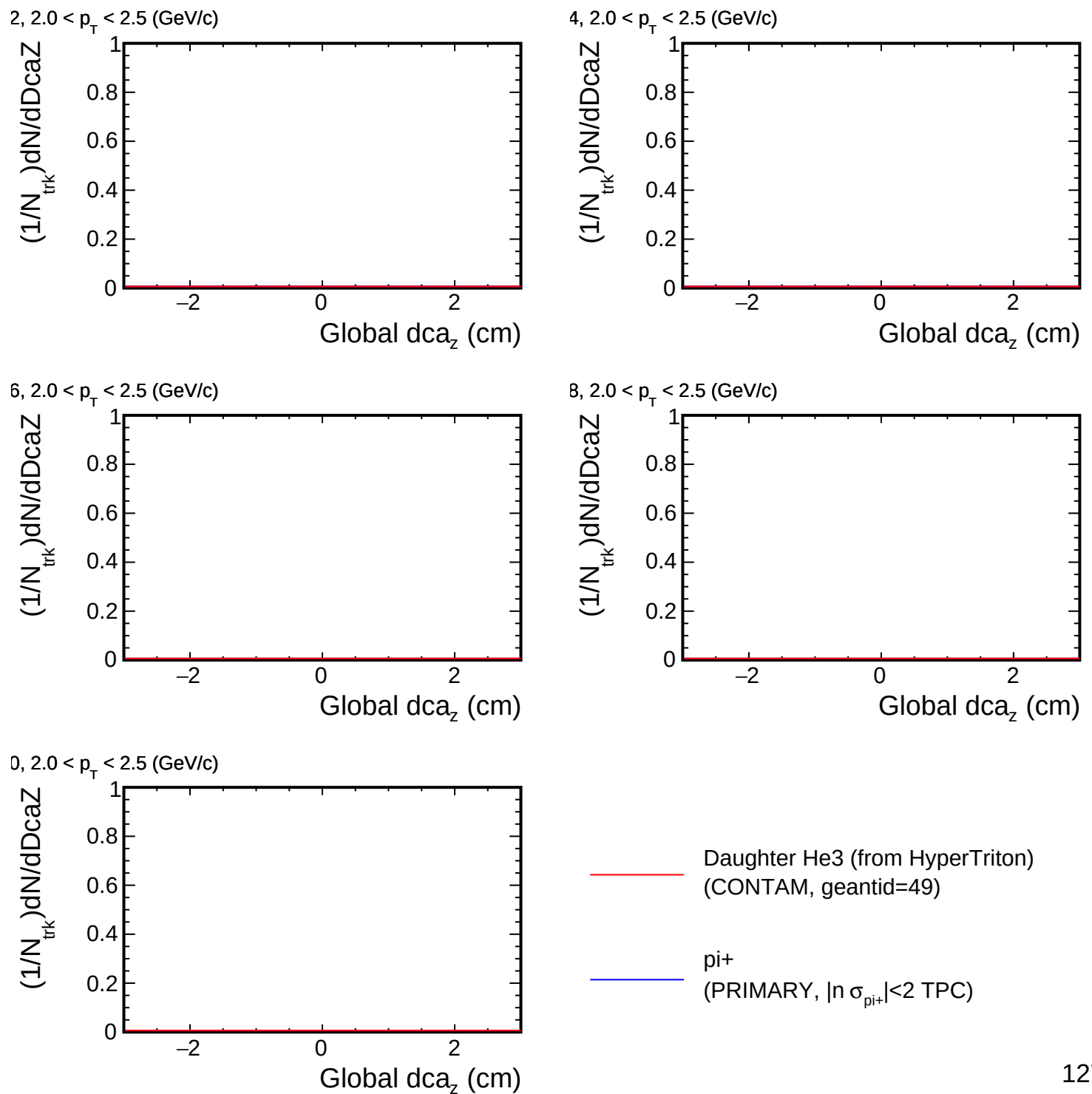
1.0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

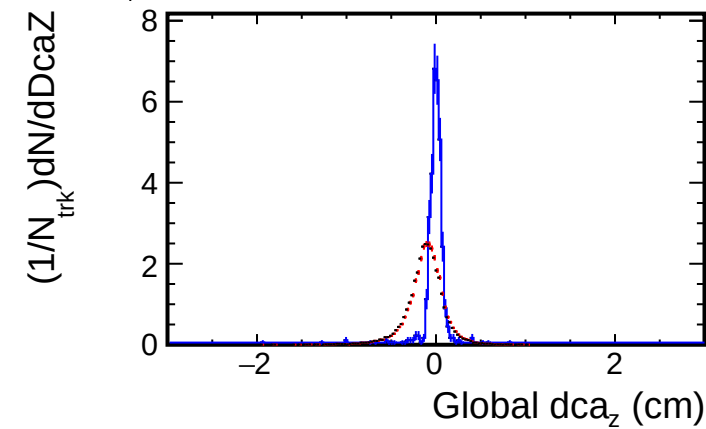
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

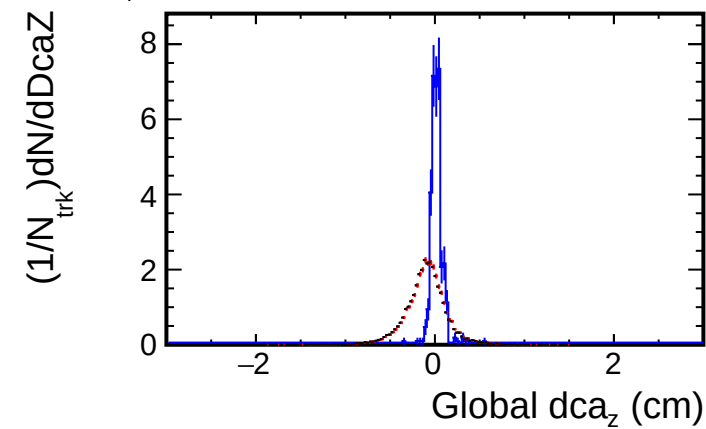


DcaZ distribution for (p_T , η) slices

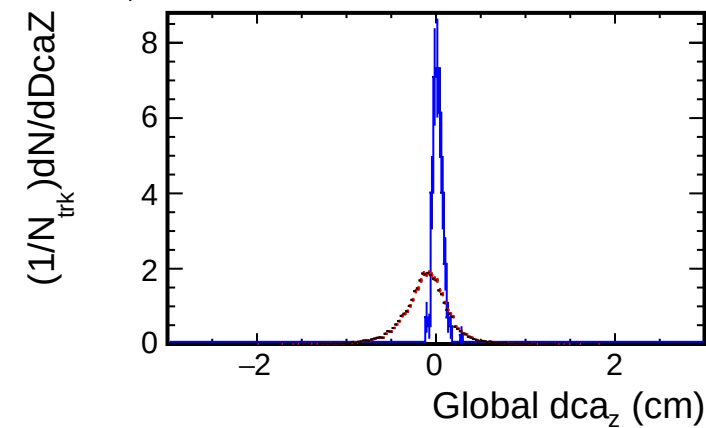
1.8, $2.5 < p_T < 3.0$ (GeV/c)



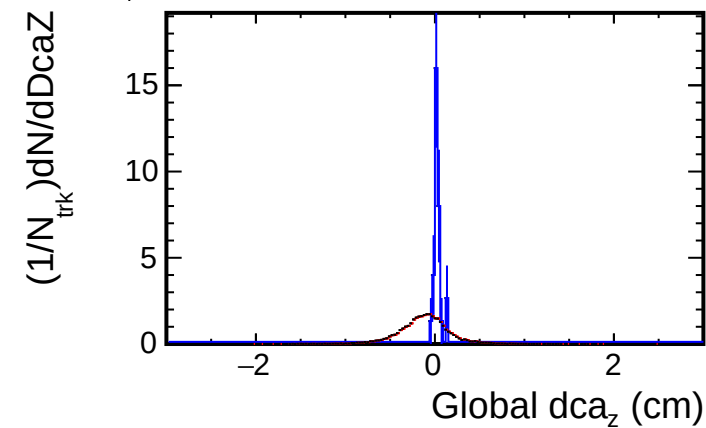
1.6, $2.5 < p_T < 3.0$ (GeV/c)



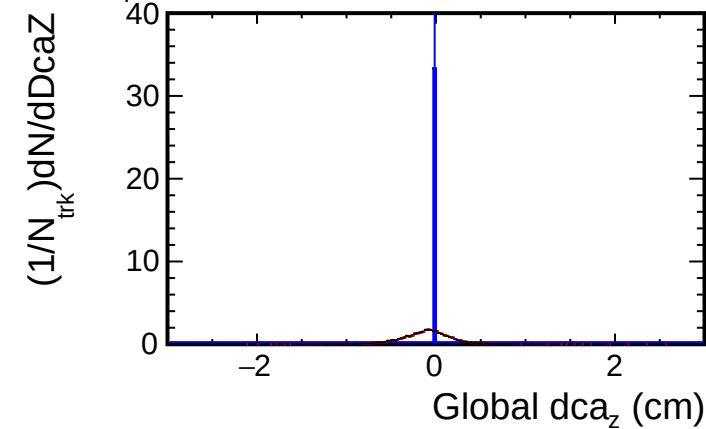
1.4, $2.5 < p_T < 3.0$ (GeV/c)



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



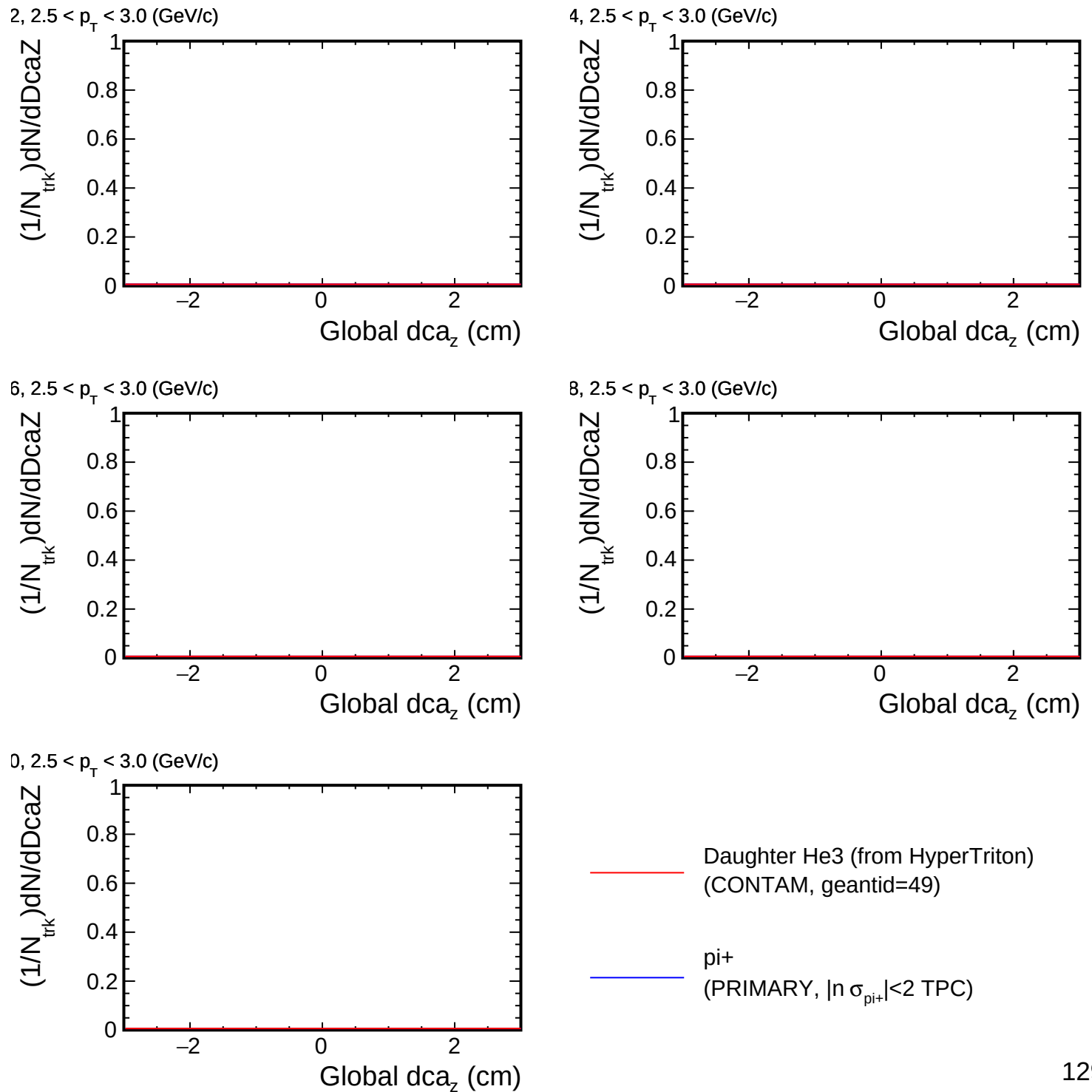
1.0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

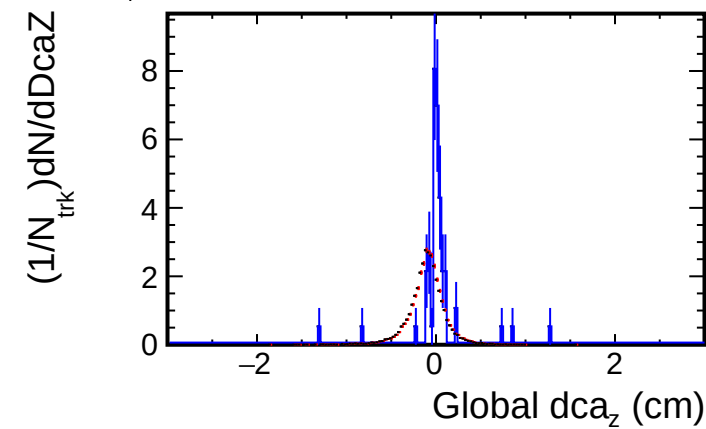
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

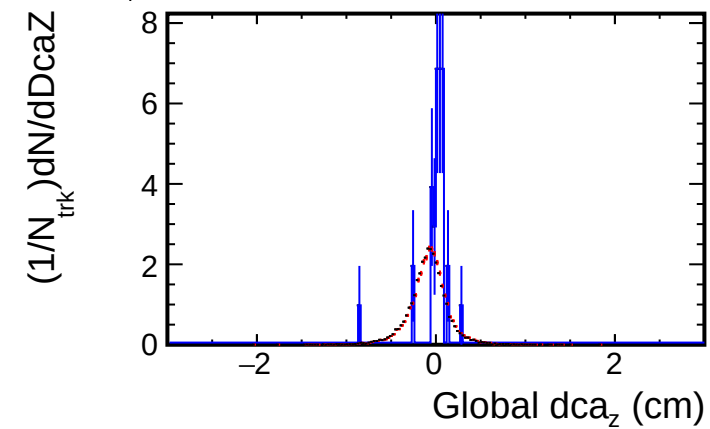


DcaZ distribution for (p_T , η) slices

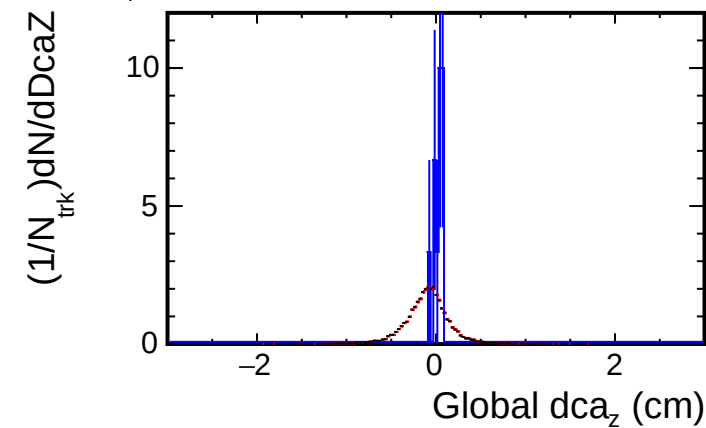
1.8, $3.0 < p_T < 3.5$ (GeV/c)



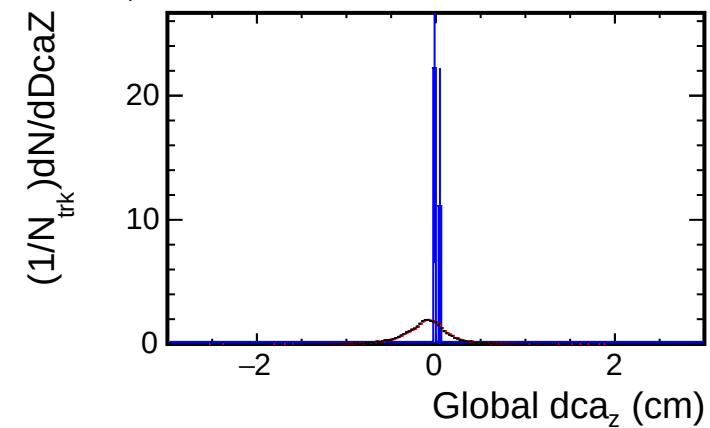
1.6, $3.0 < p_T < 3.5$ (GeV/c)



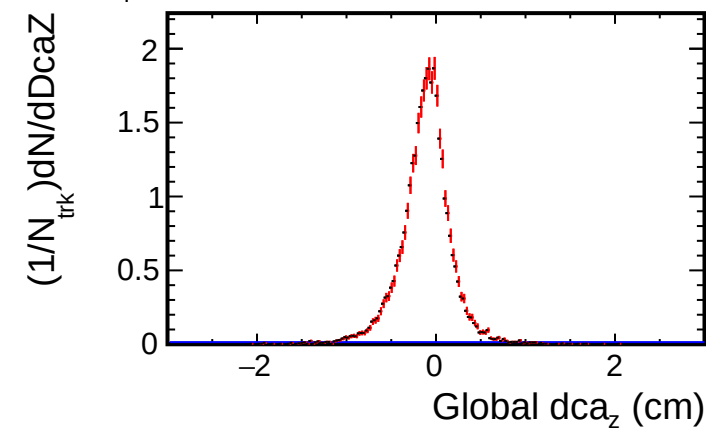
1.4, $3.0 < p_T < 3.5$ (GeV/c)



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



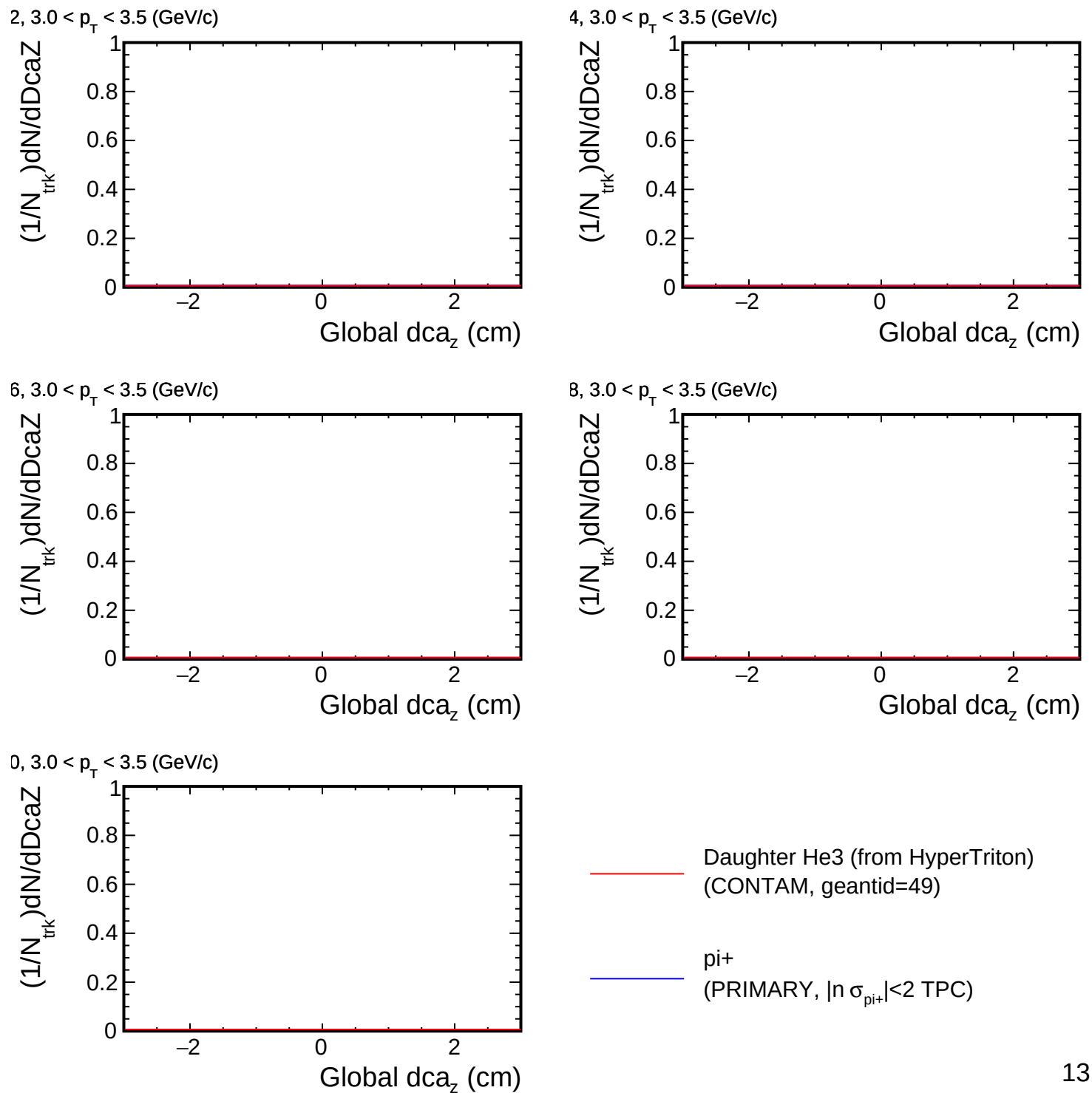
1.0, $3.0 < p_T < 3.5$ (GeV/c)



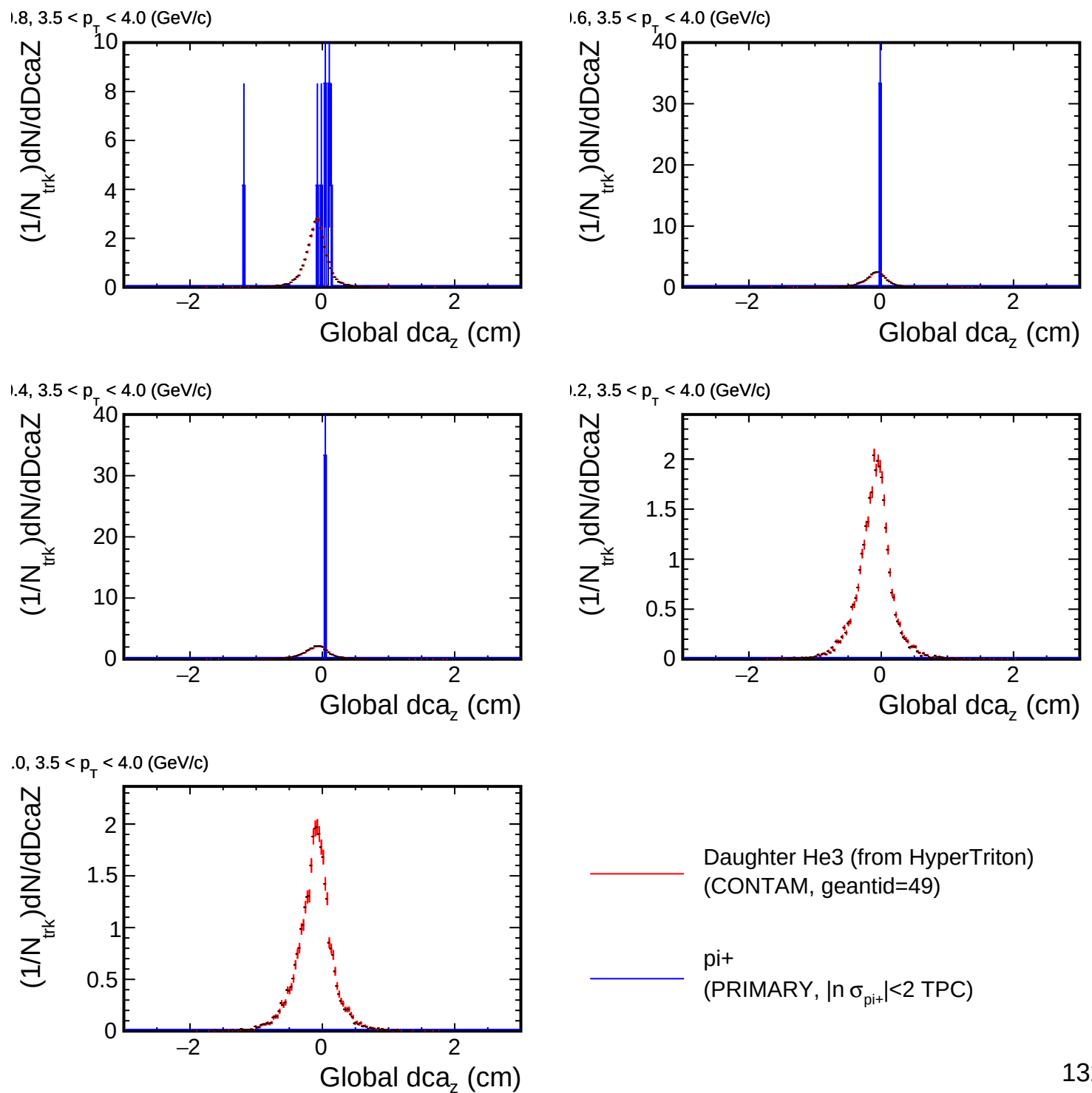
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

DcaZ distribution for (p_T , η) slices

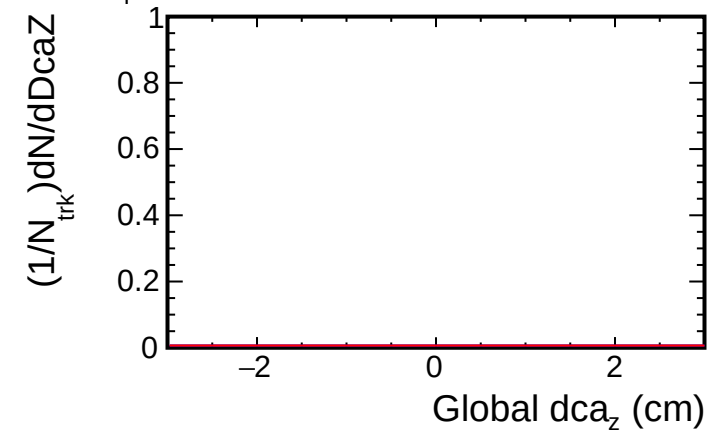


DcaZ distribution for (p_T , η) slices

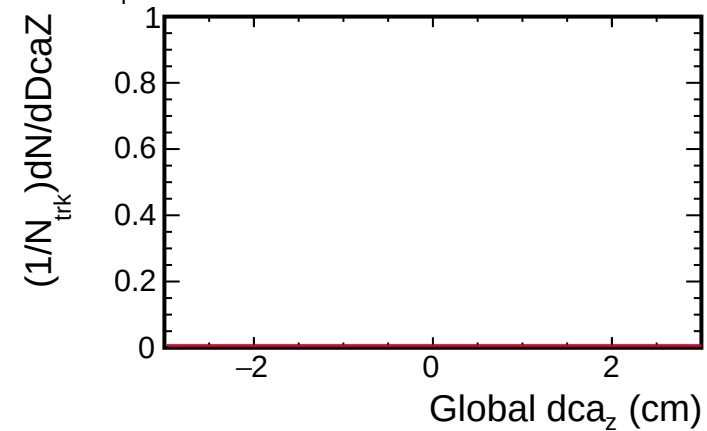


DcaZ distribution for (p_T , η) slices

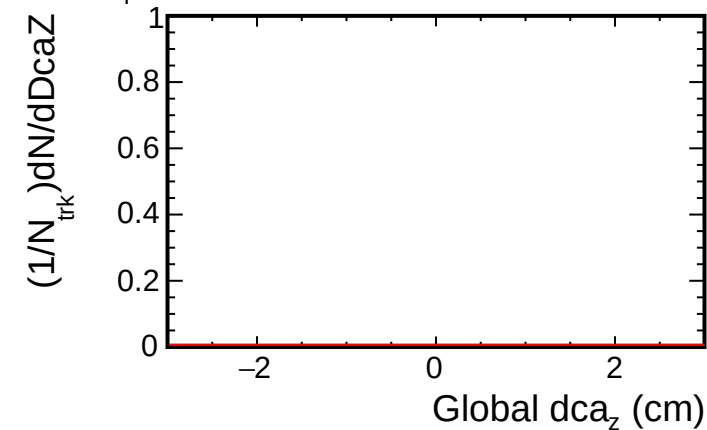
2, $3.5 < p_T < 4.0$ (GeV/c)



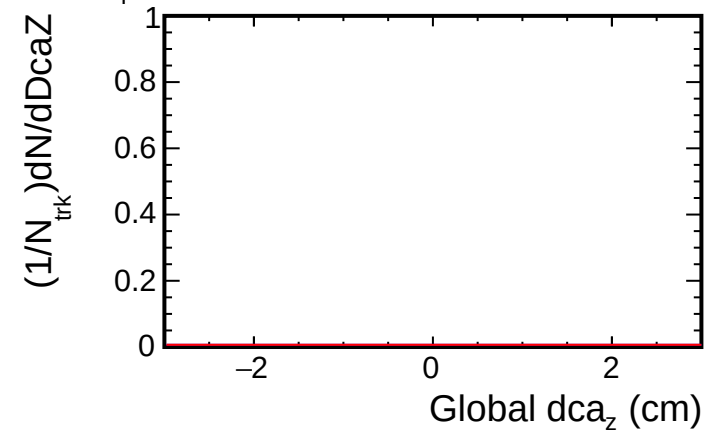
4, $3.5 < p_T < 4.0$ (GeV/c)



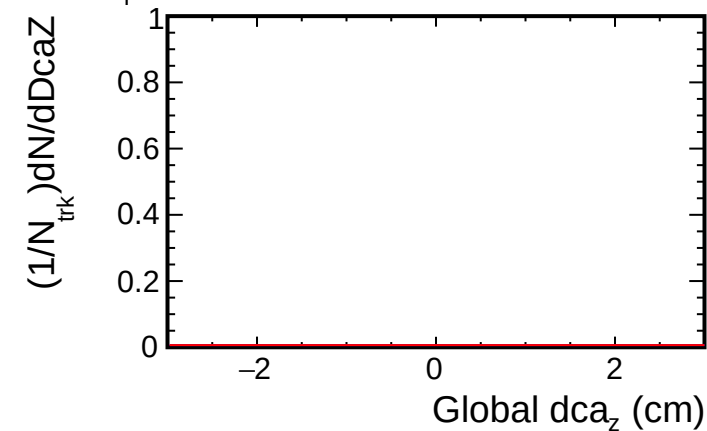
6, $3.5 < p_T < 4.0$ (GeV/c)



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



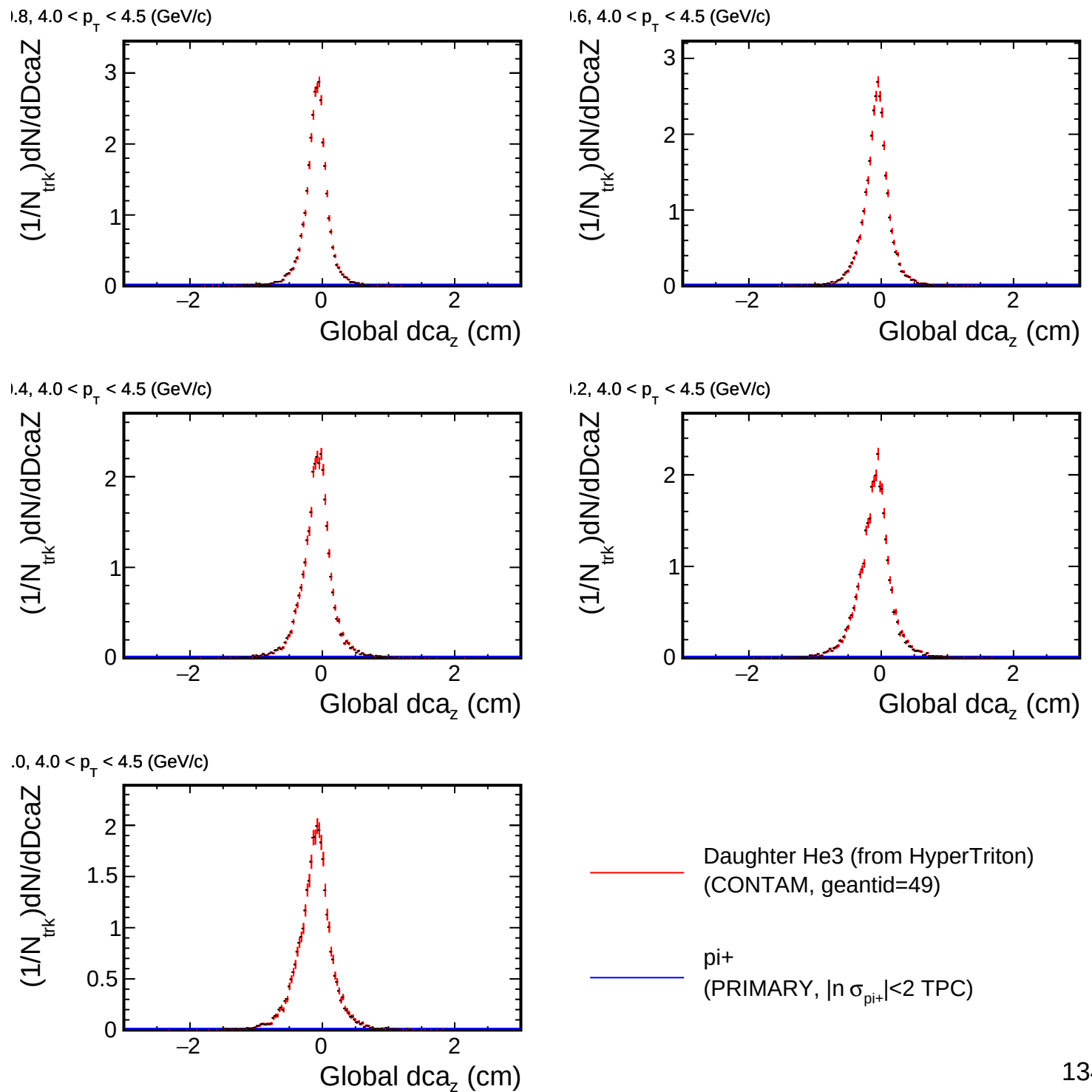
0, $3.5 < p_T < 4.0$ (GeV/c)



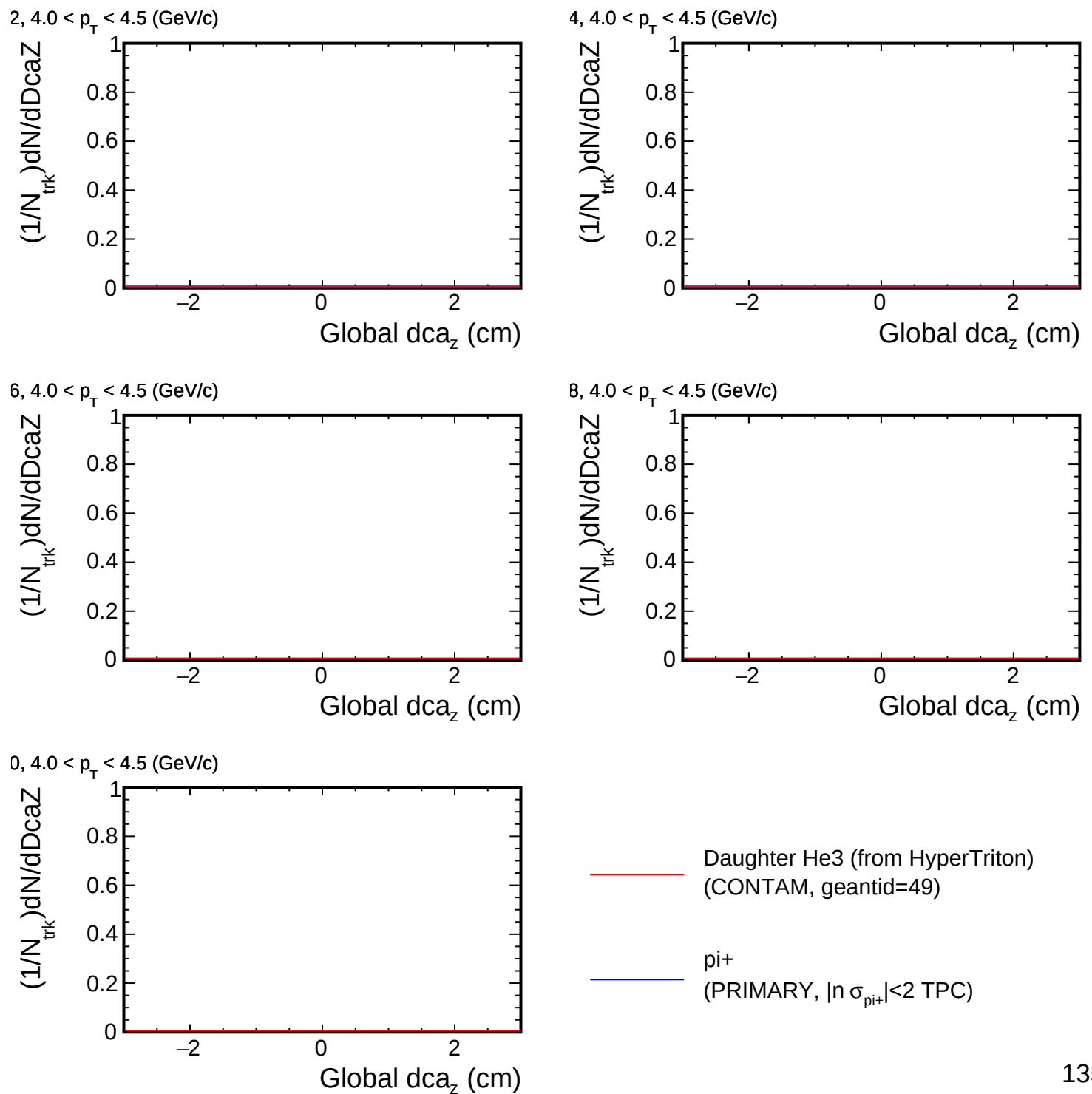
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

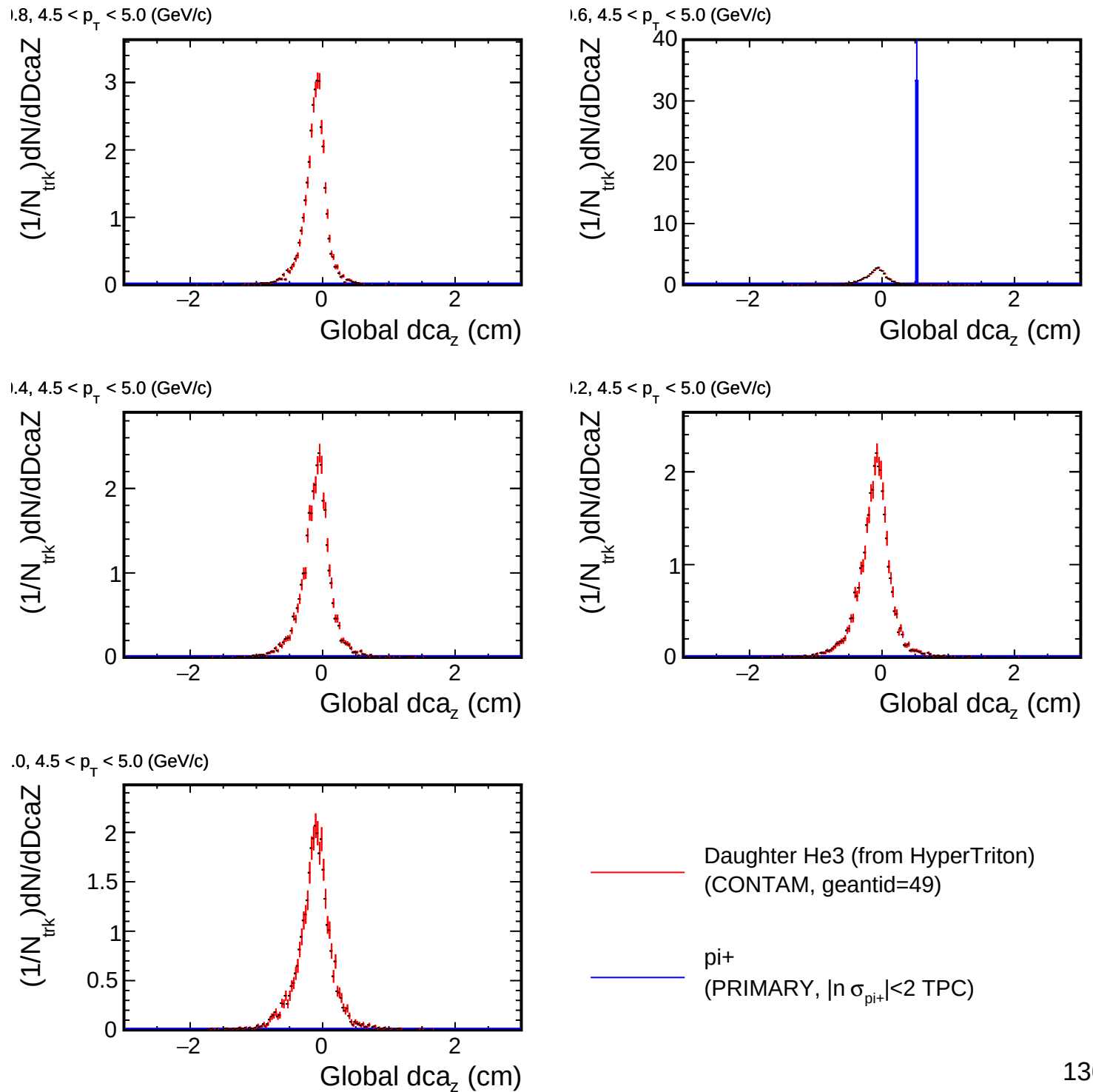
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices

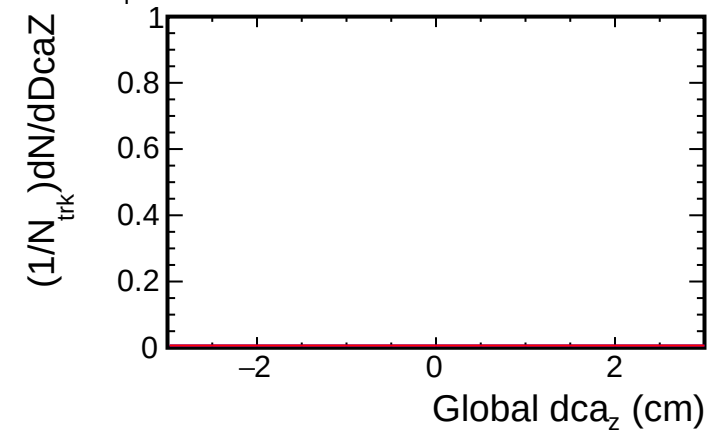


DcaZ distribution for (p_T , η) slices

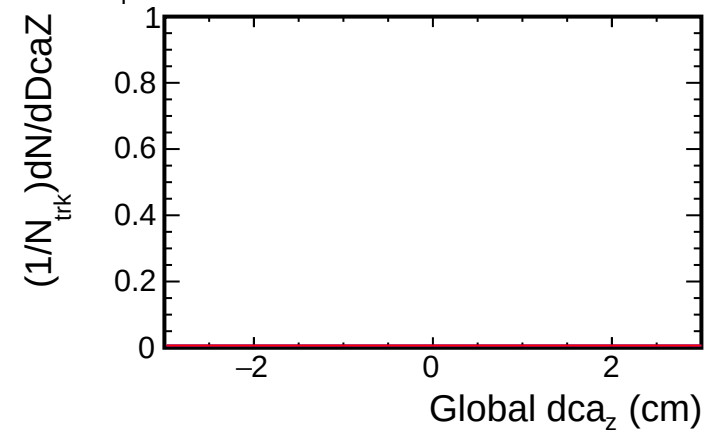


DcaZ distribution for (p_T , η) slices

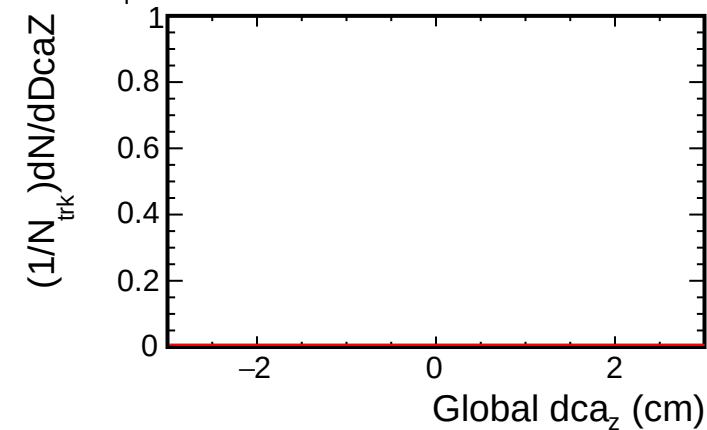
2, $4.5 < p_T < 5.0$ (GeV/c)



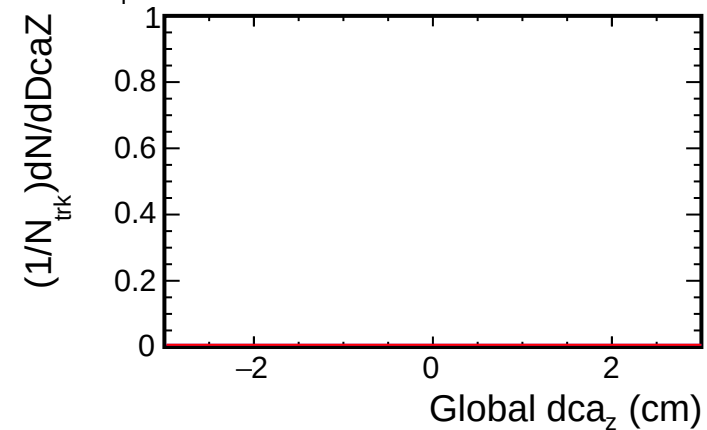
4, $4.5 < p_T < 5.0$ (GeV/c)



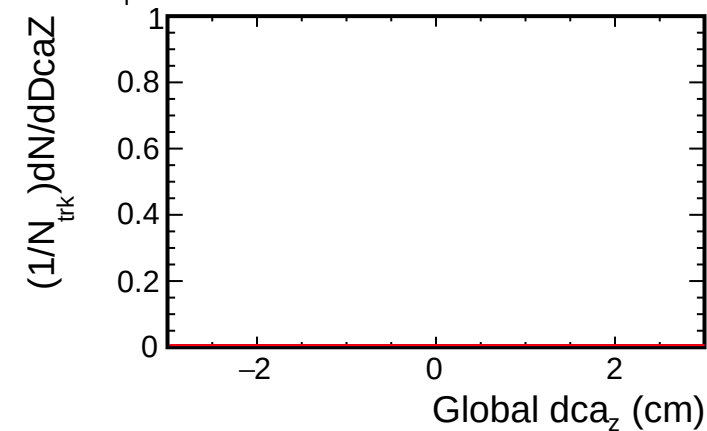
6, $4.5 < p_T < 5.0$ (GeV/c)



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



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

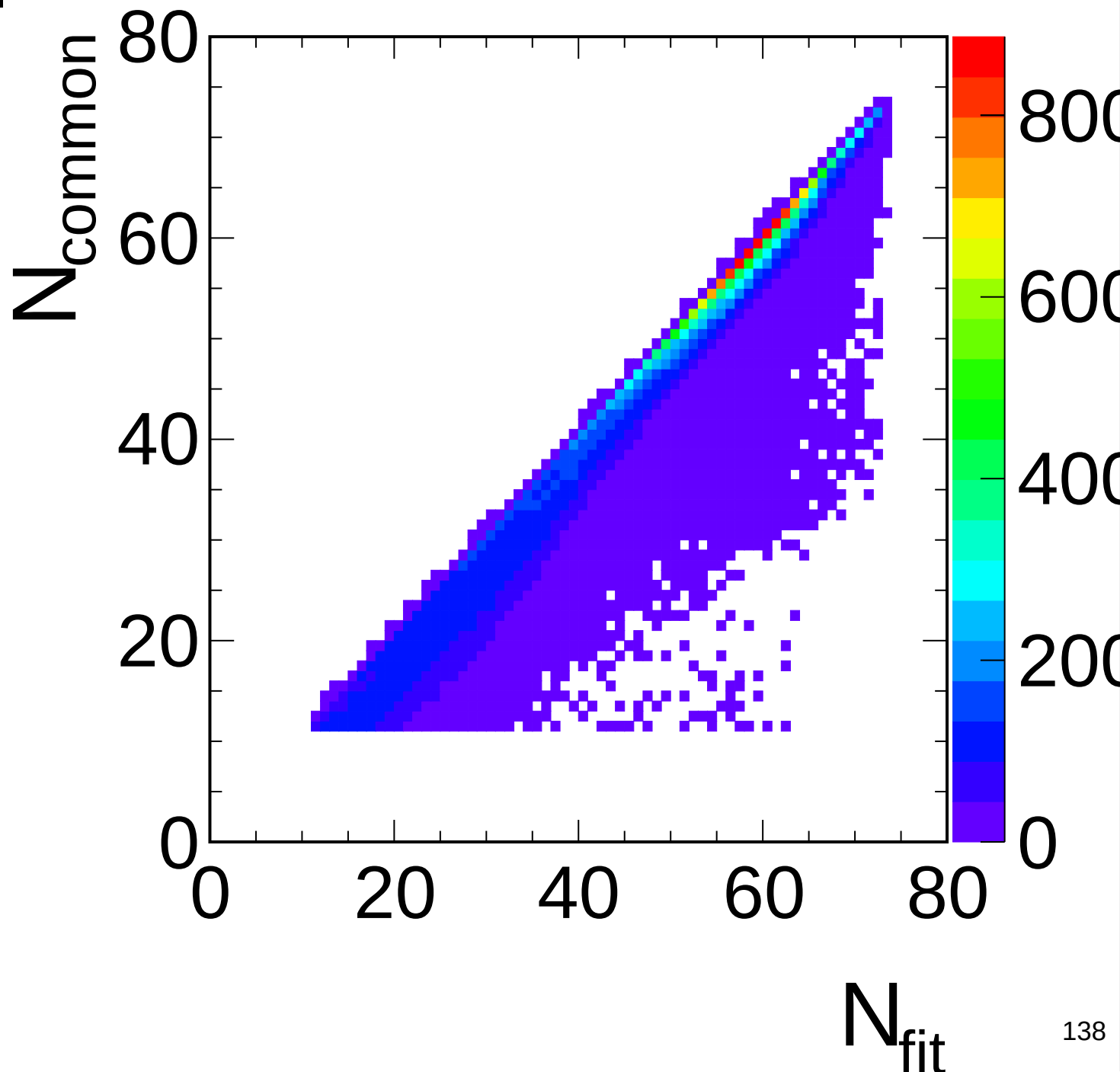


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

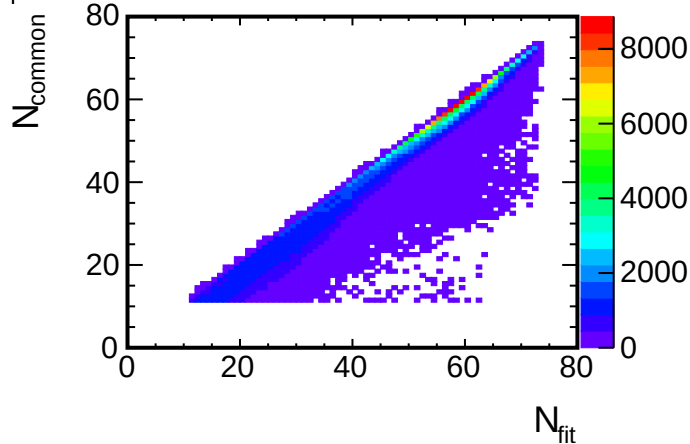
N_{common} vs N_{hit} (Embedding:pi-, Real:pi-)

$p_T < 5.0$ GeV/c

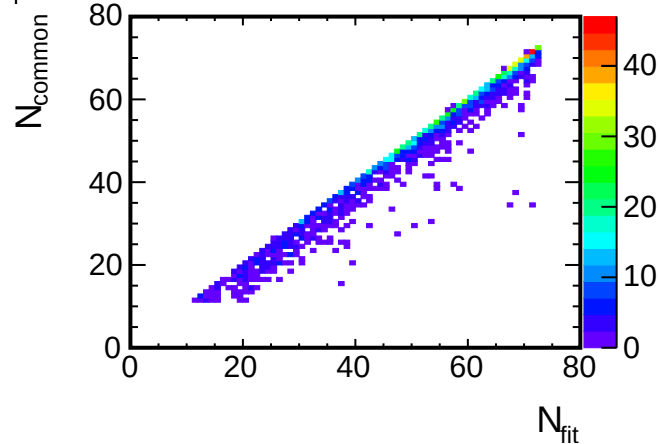


N_{common} vs N_{hit} , p_T dependence (Embedding:pi-, Real:pi-)

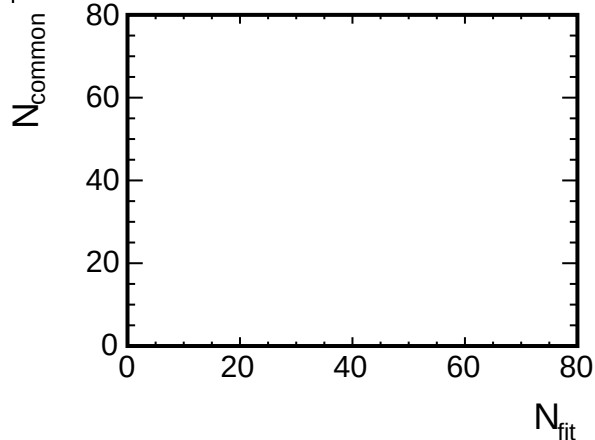
$< p_T < 0.5$ GeV/c



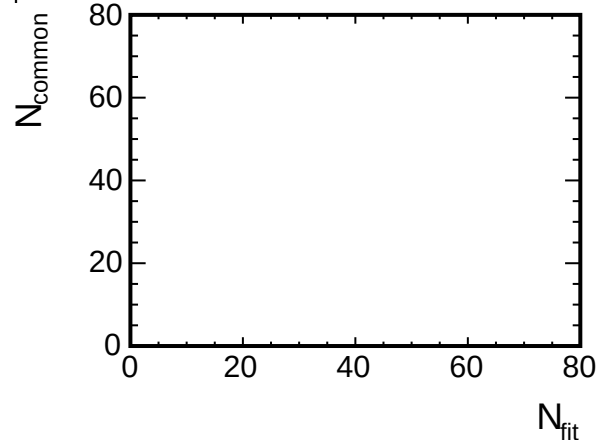
$< p_T < 1.0$ GeV/c



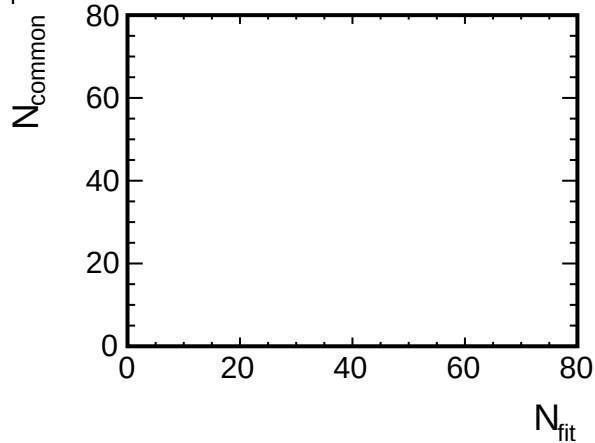
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

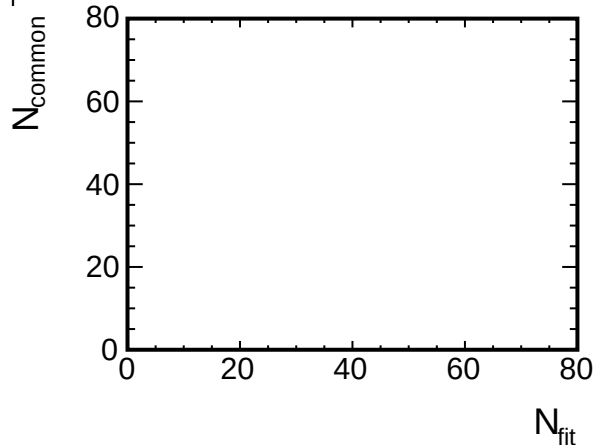


$< p_T < 2.5$ GeV/c

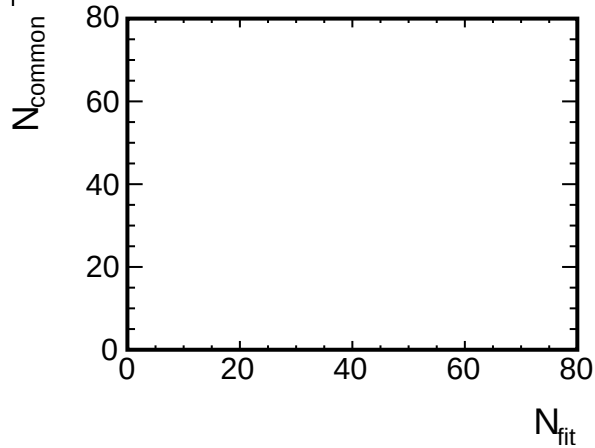


N_{common} vs N_{hit} , p_T dependence (Embedding:pi-, Real:pi-)

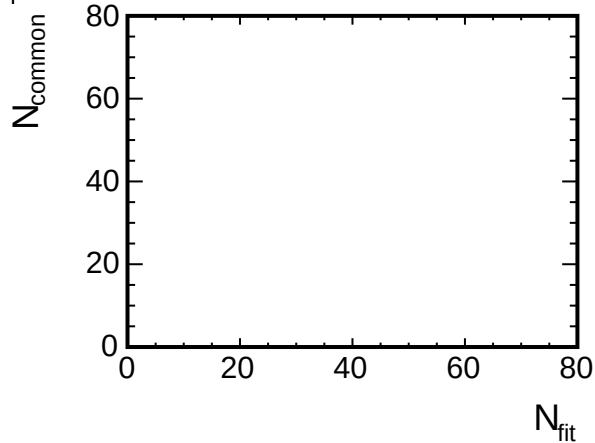
$< p_T < 3.0$ GeV/c



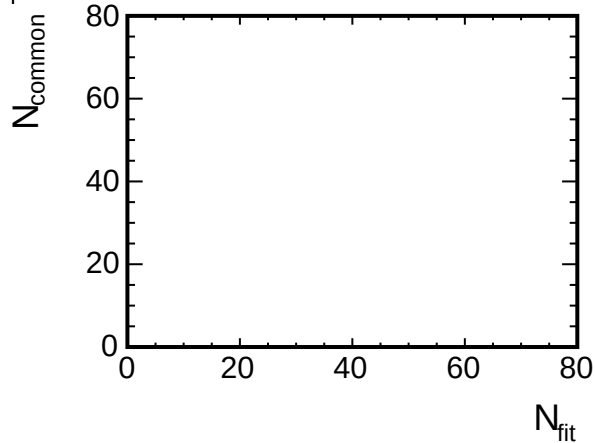
$< p_T < 3.5$ GeV/c



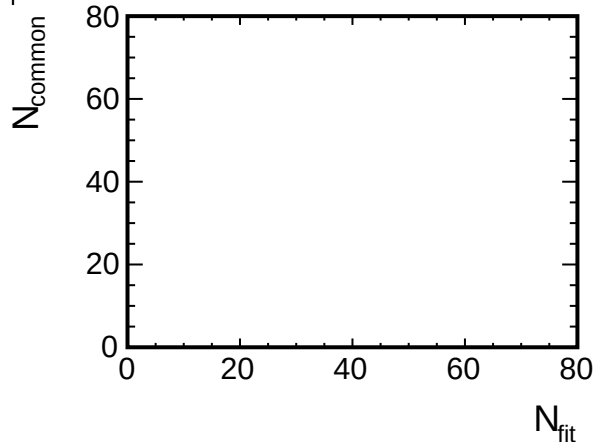
$< p_T < 4.0$ GeV/c



$< p_T < 4.5$ GeV/c

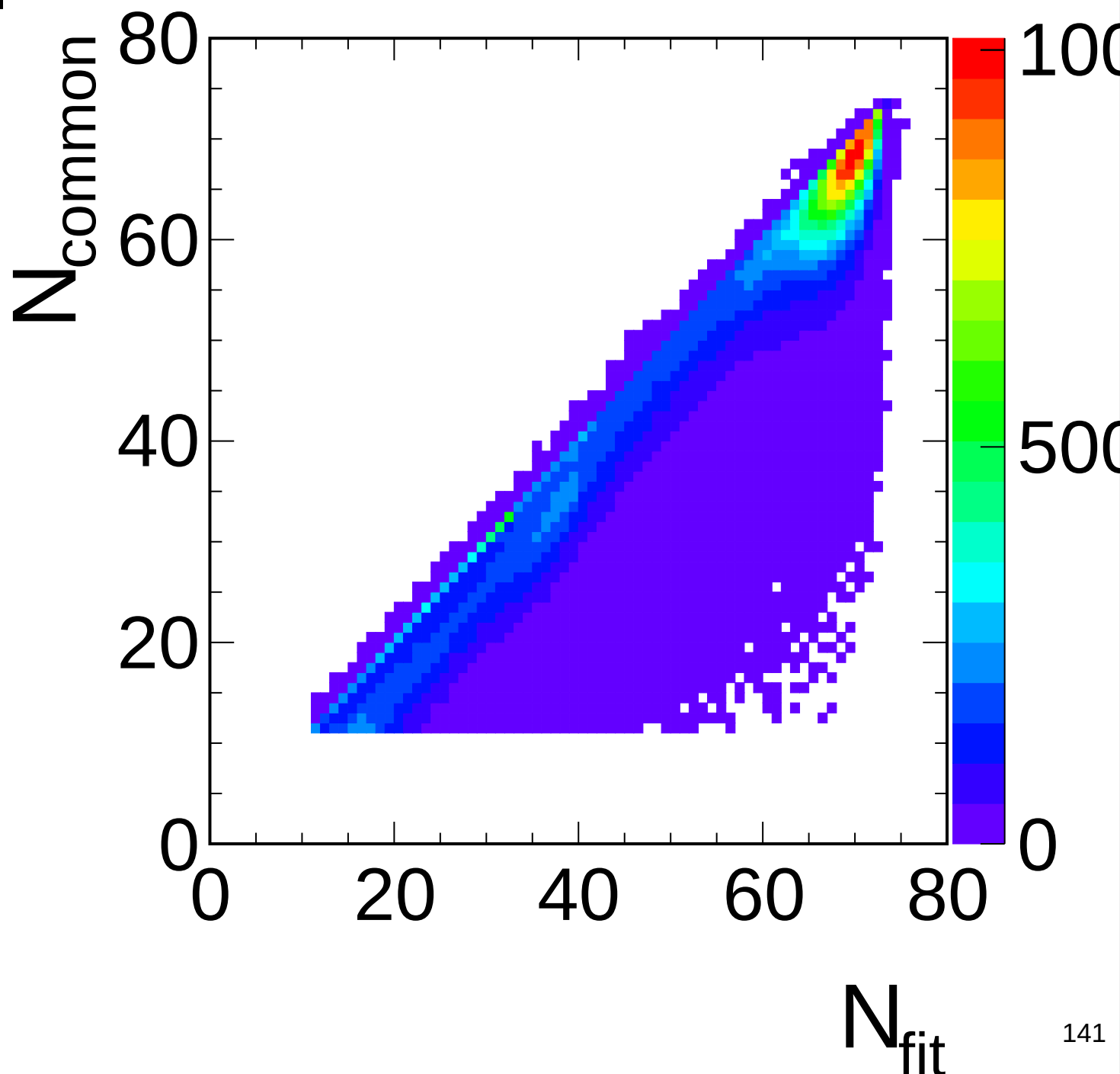


$< p_T < 5.0$ GeV/c



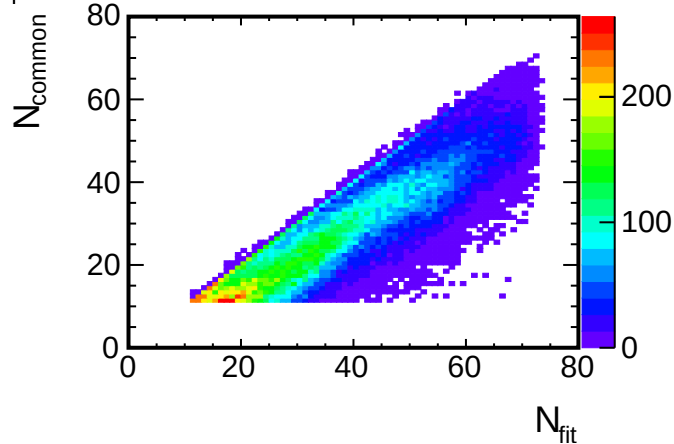
N_{common} vs N_{hit} (Embedding:He3, Real:He3)

$p_T < 5.0$ GeV/c

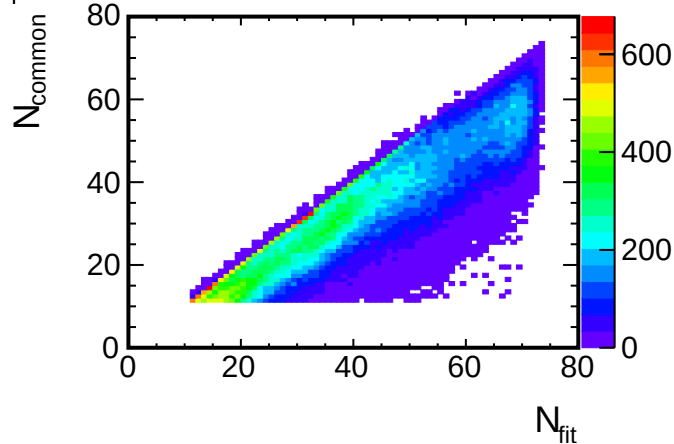


N_{common} vs N_{hit} , p_T dependence (Embedding:He3, Real:He3)

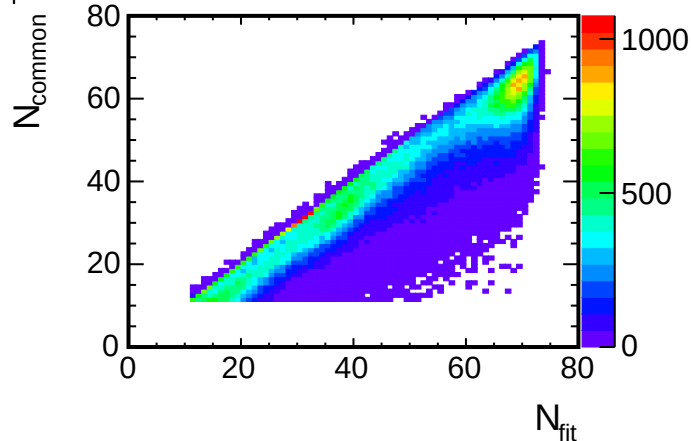
$< p_T < 0.5$ GeV/c



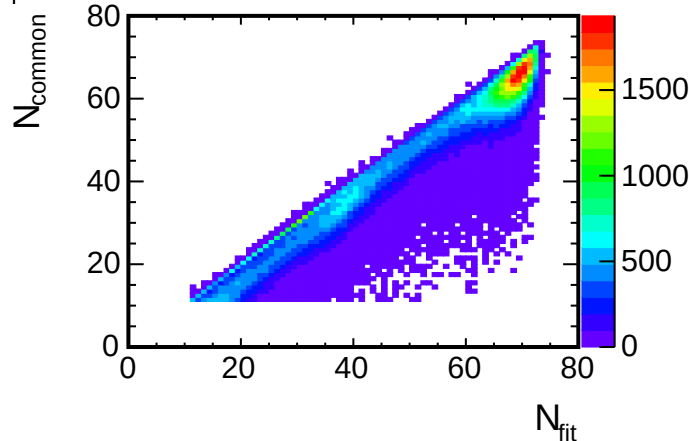
$< p_T < 1.0$ GeV/c



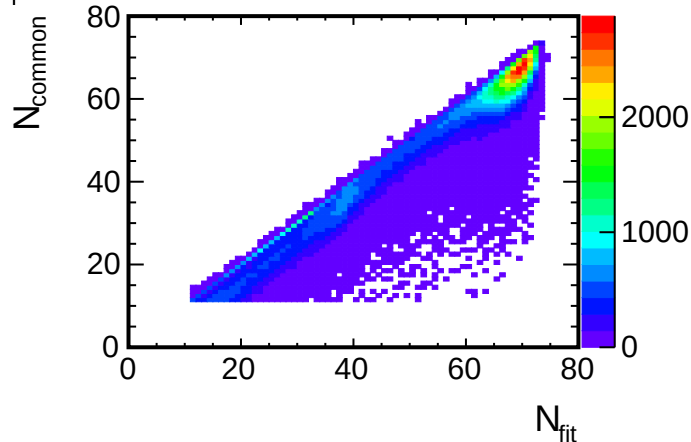
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

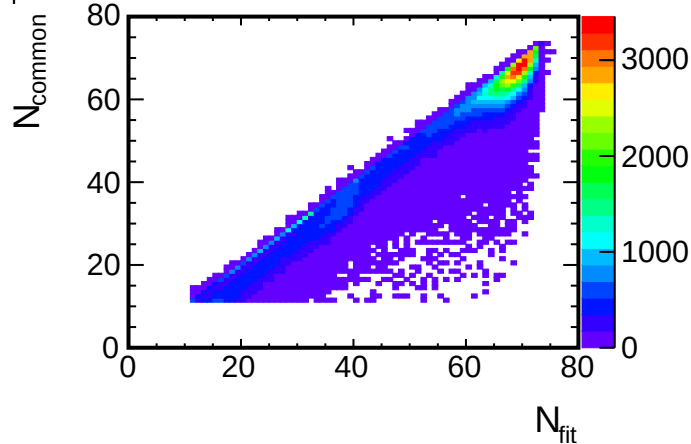


$< p_T < 2.5$ GeV/c

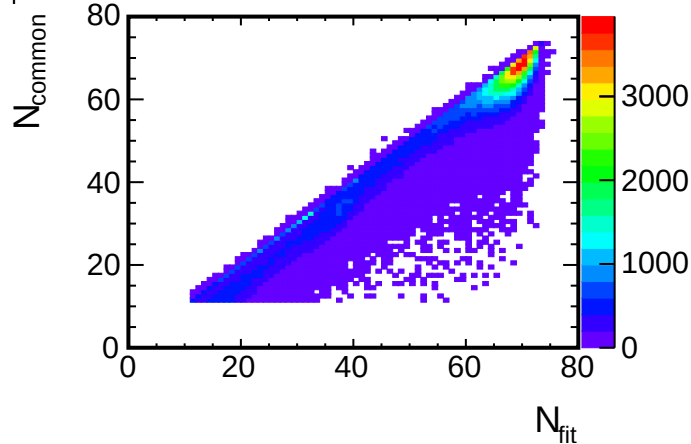


N_{common} vs N_{hit} , p_T dependence (Embedding:He3, Real:He3)

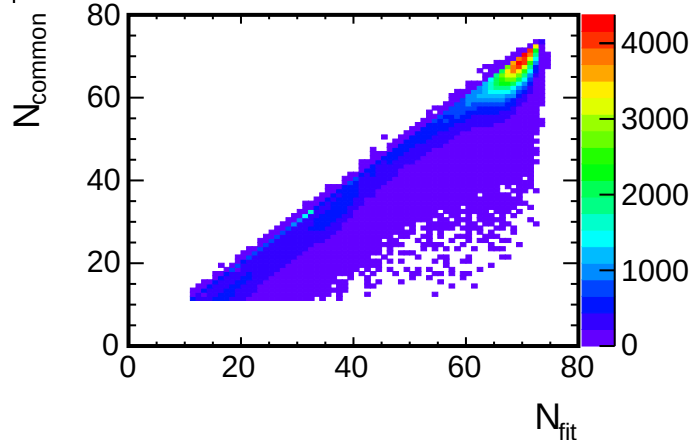
$< p_T < 3.0$ GeV/c



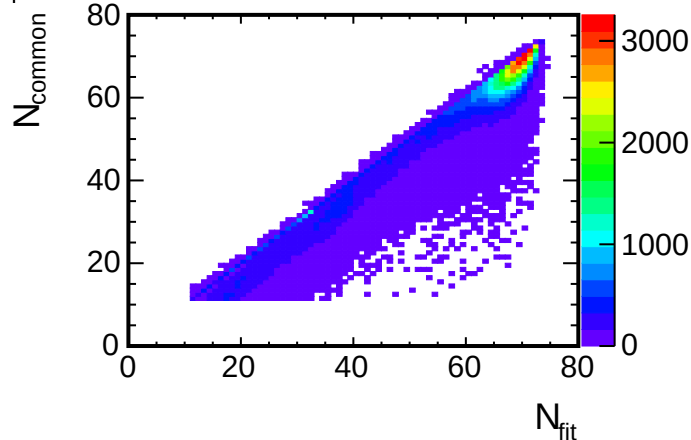
$< p_T < 3.5$ GeV/c



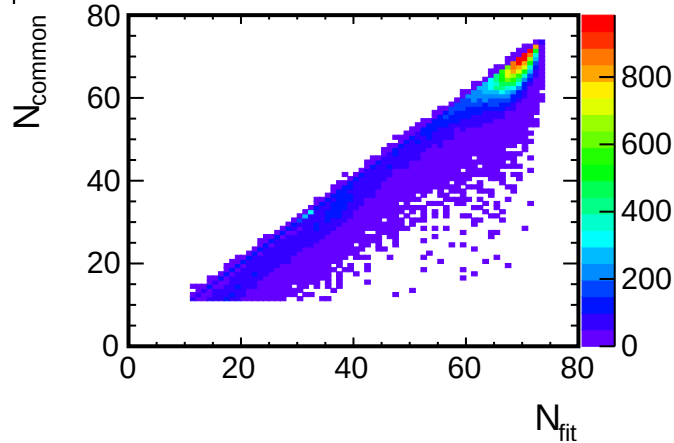
$< p_T < 4.0$ GeV/c



$< p_T < 4.5$ GeV/c

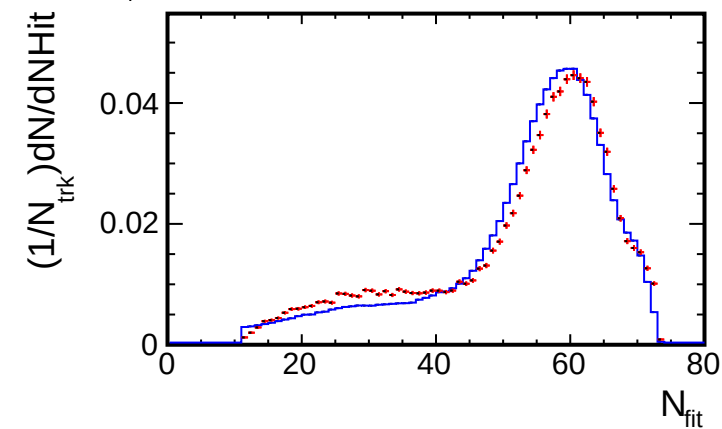


$< p_T < 5.0$ GeV/c

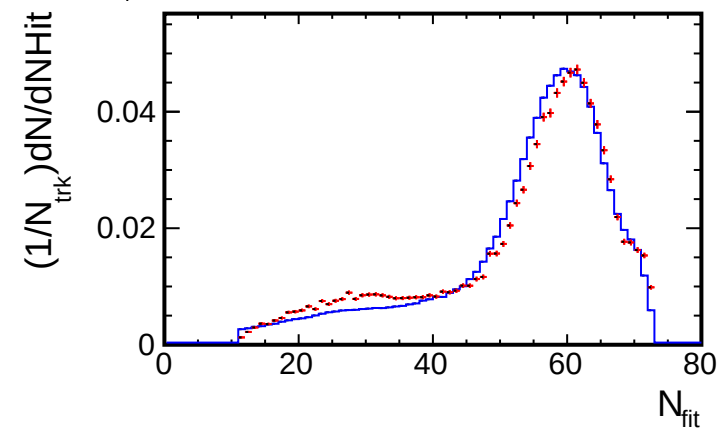


NHit distribution for (p_T , η) slices

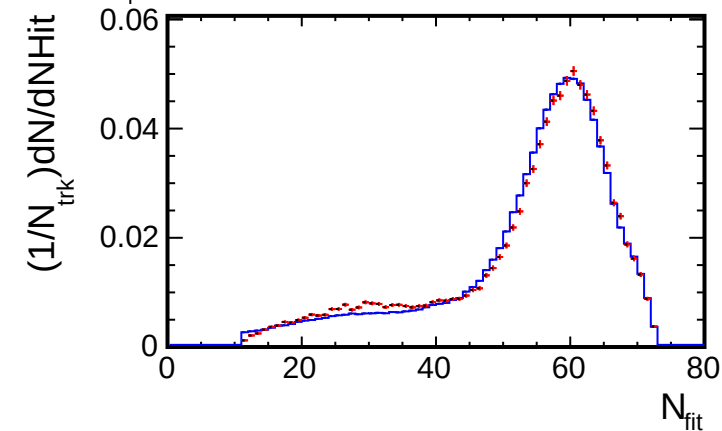
1.8, $0.1 < p_T < 0.5$ (GeV/c)



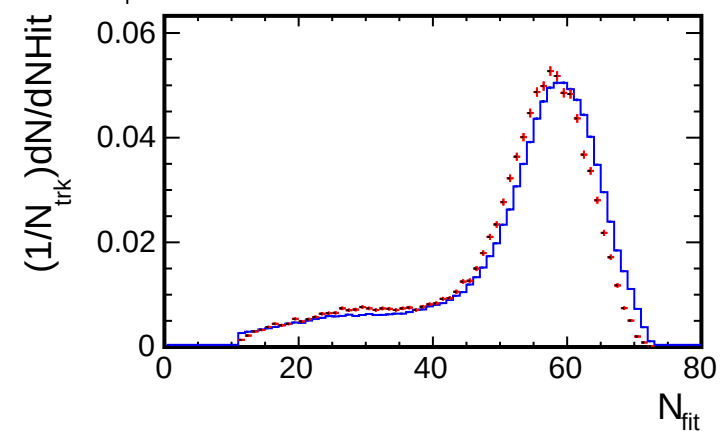
1.6, $0.1 < p_T < 0.5$ (GeV/c)



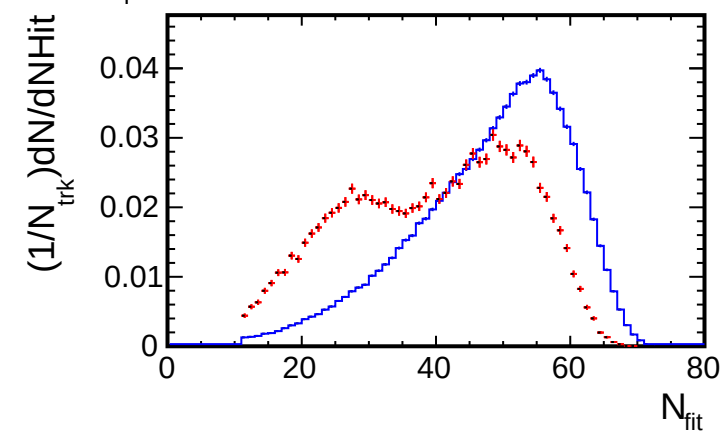
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



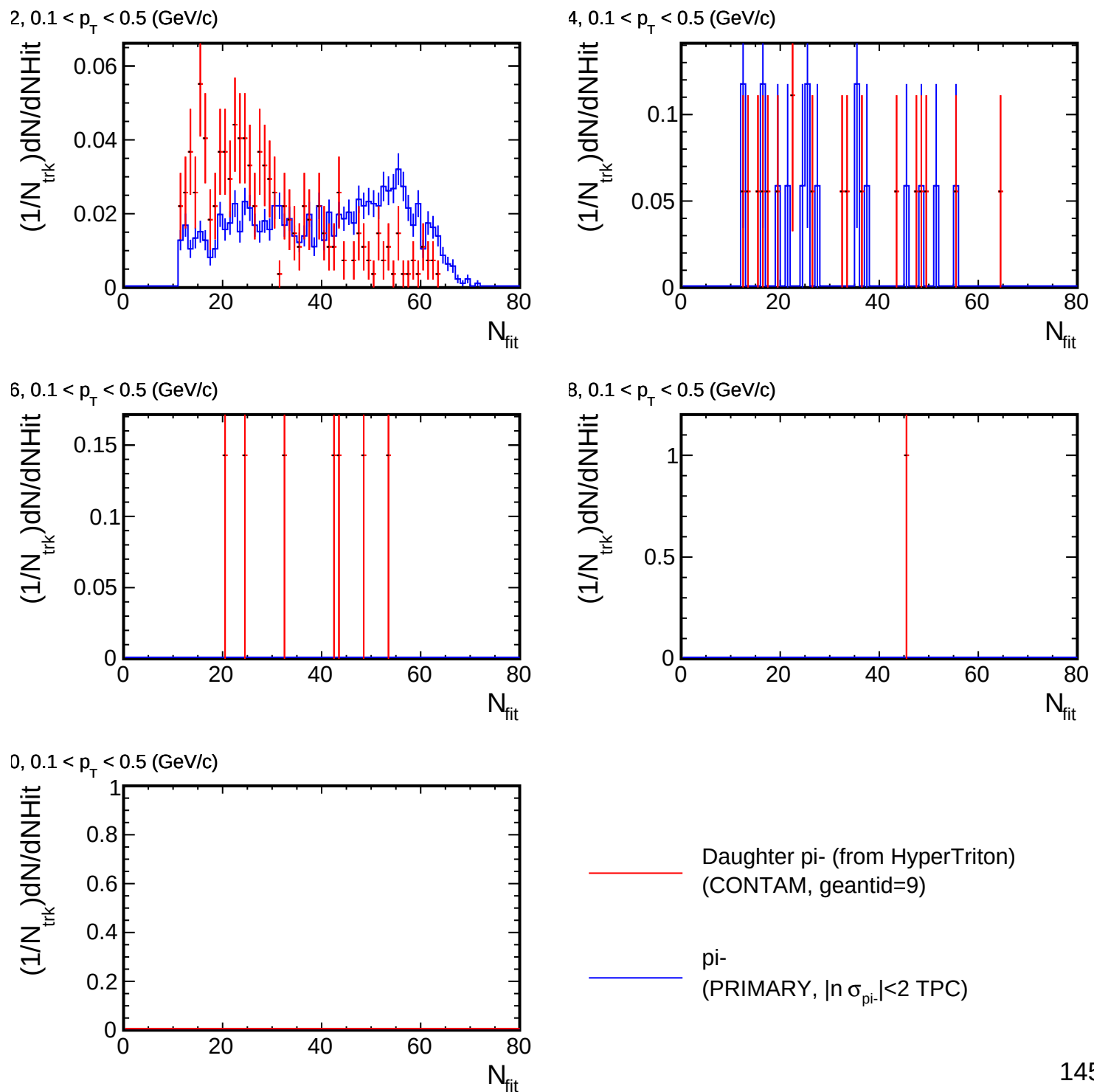
1.0, $0.1 < p_T < 0.5$ (GeV/c)



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

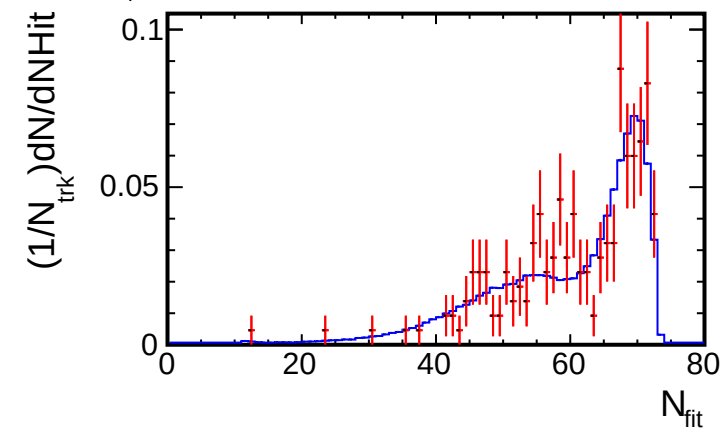
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

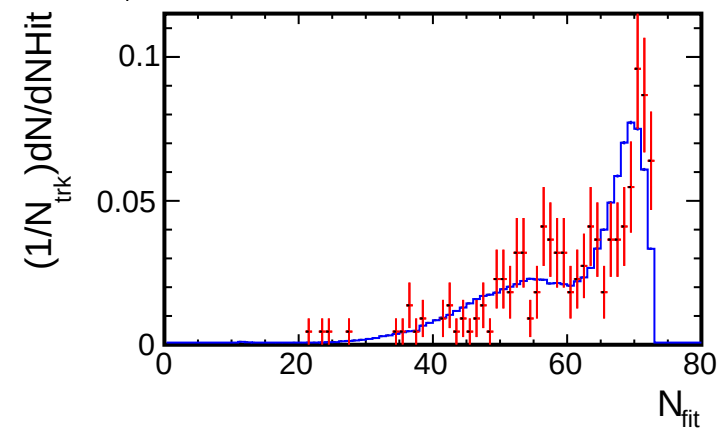


NHit distribution for (p_T , η) slices

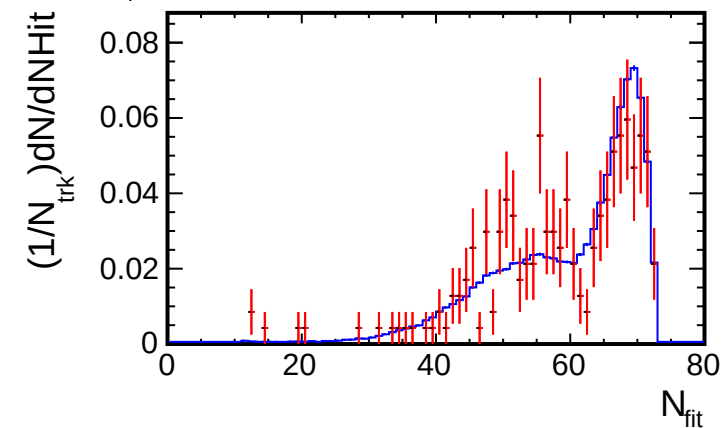
1.8, $0.5 < p_T < 1.0$ (GeV/c)



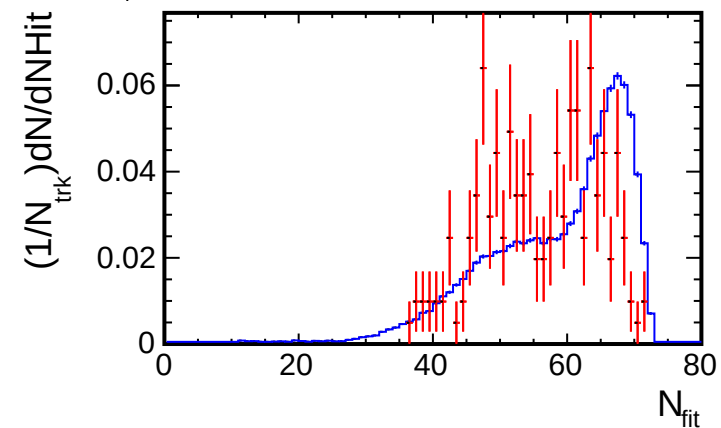
1.6, $0.5 < p_T < 1.0$ (GeV/c)



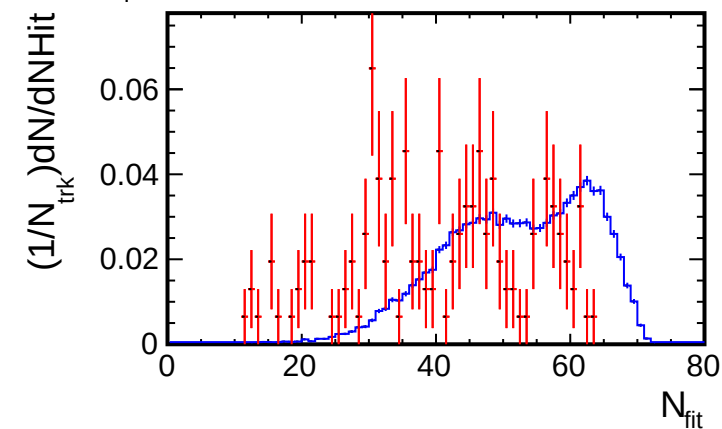
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



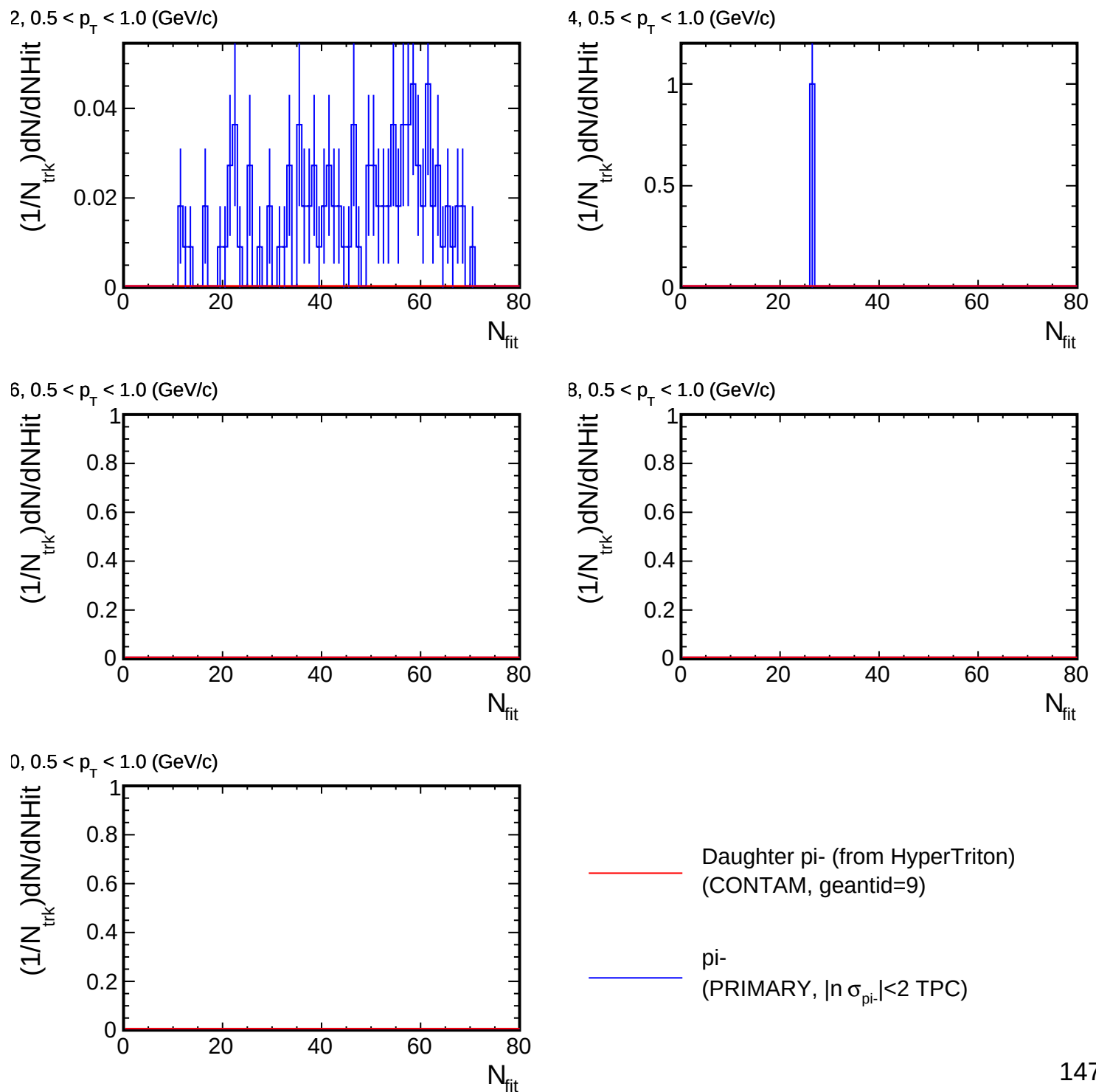
1.0, $0.5 < p_T < 1.0$ (GeV/c)



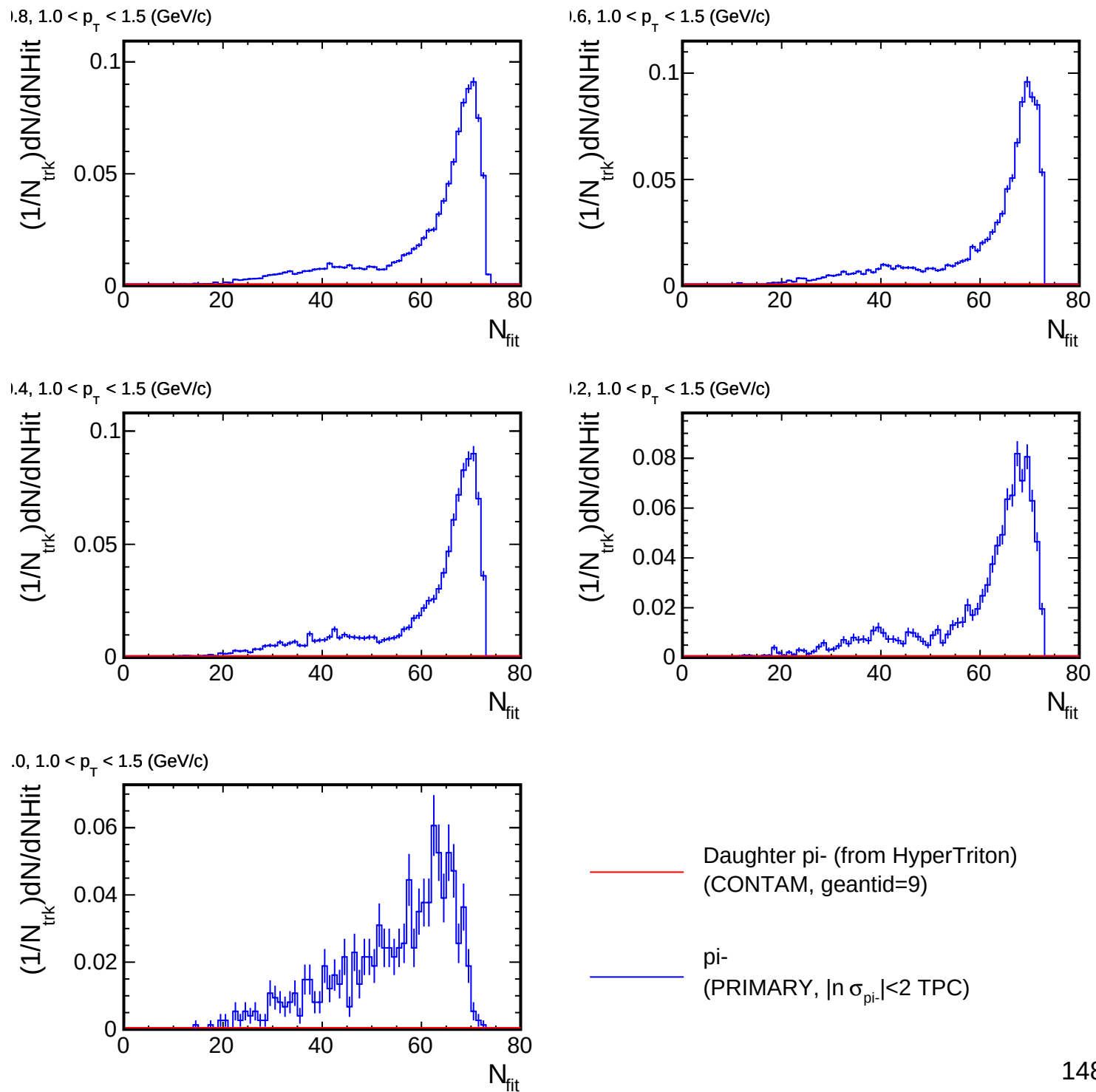
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

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

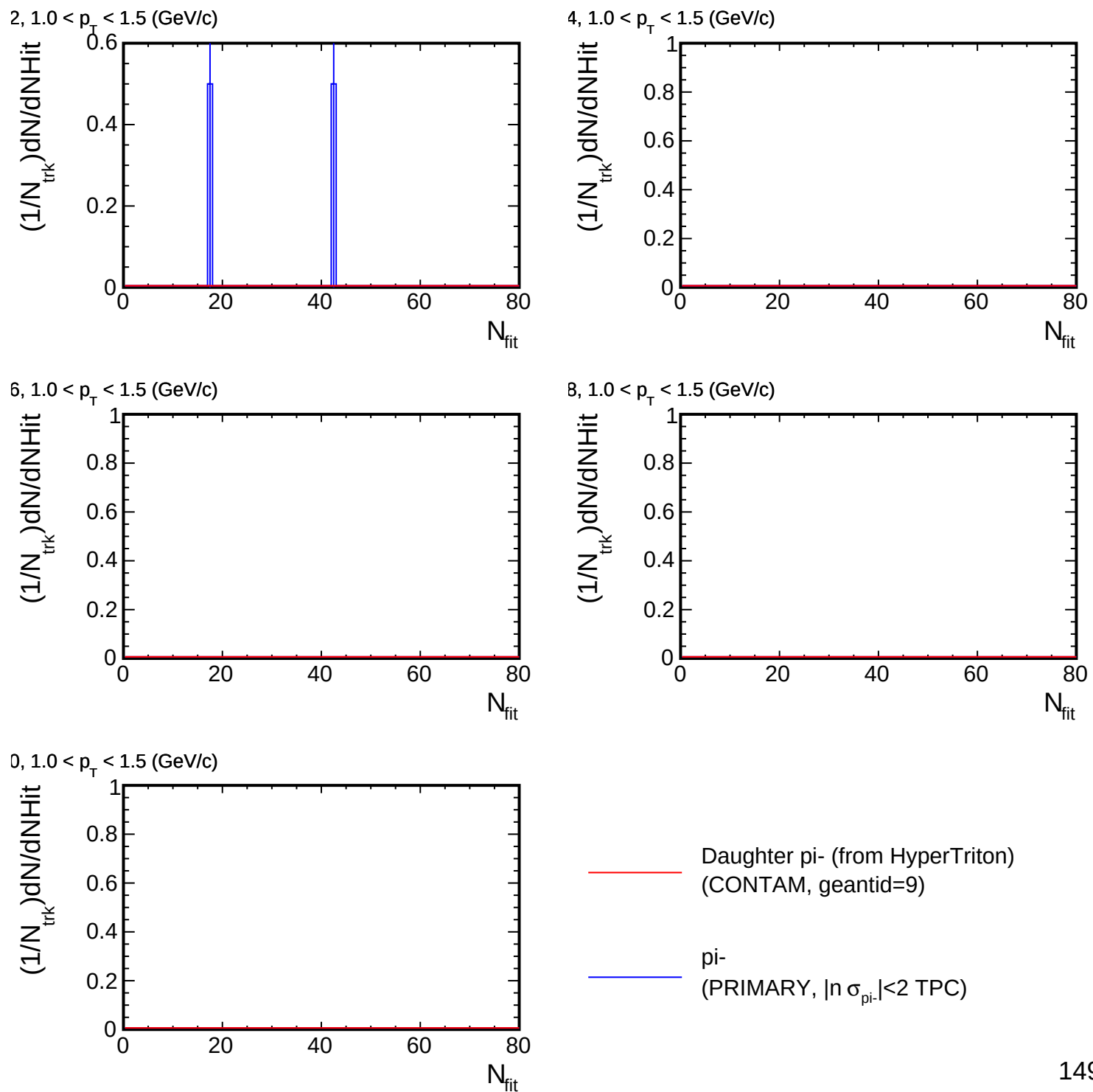
NHit distribution for (p_T , η) slices



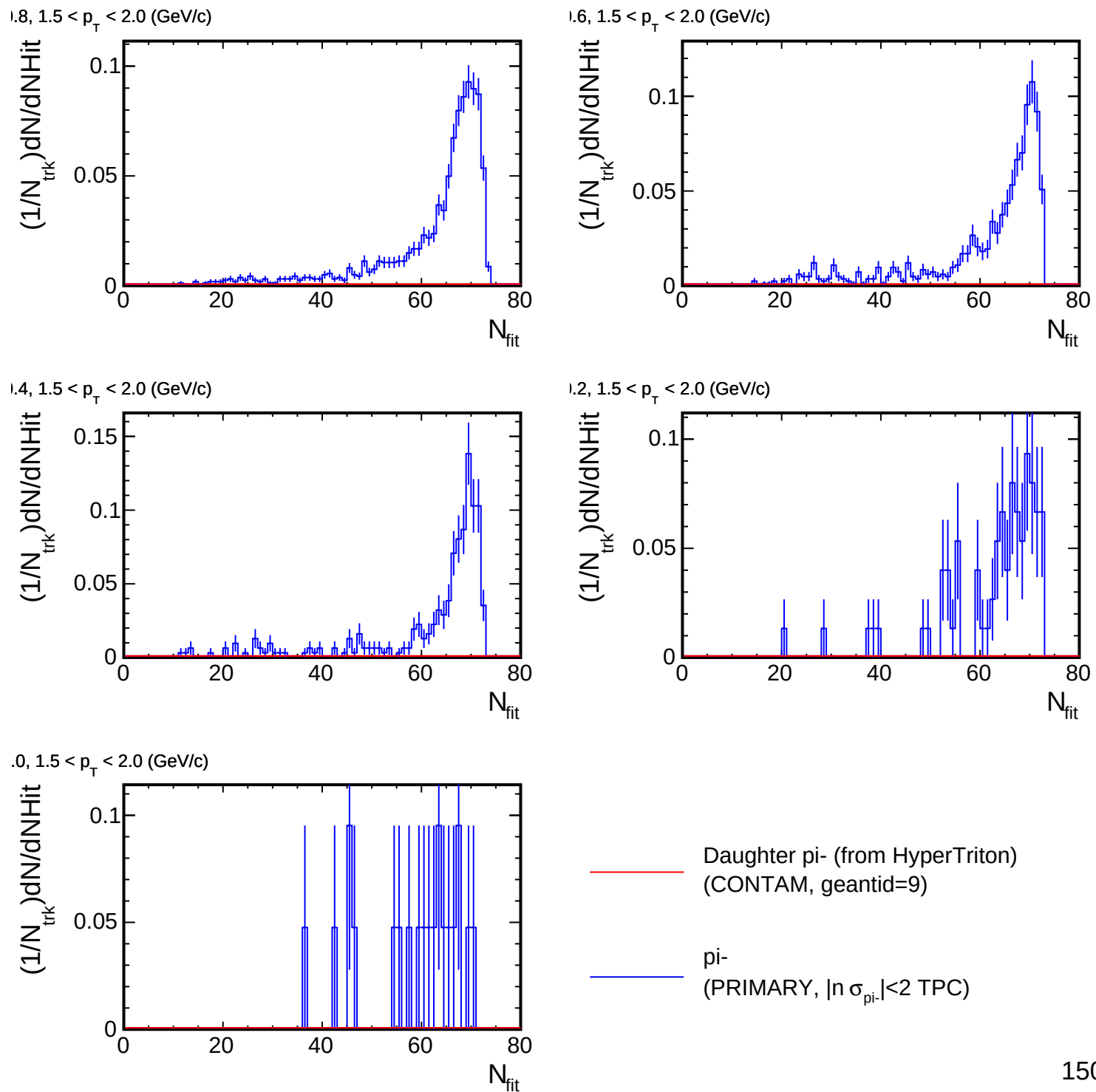
NHit distribution for (p_T , η) slices



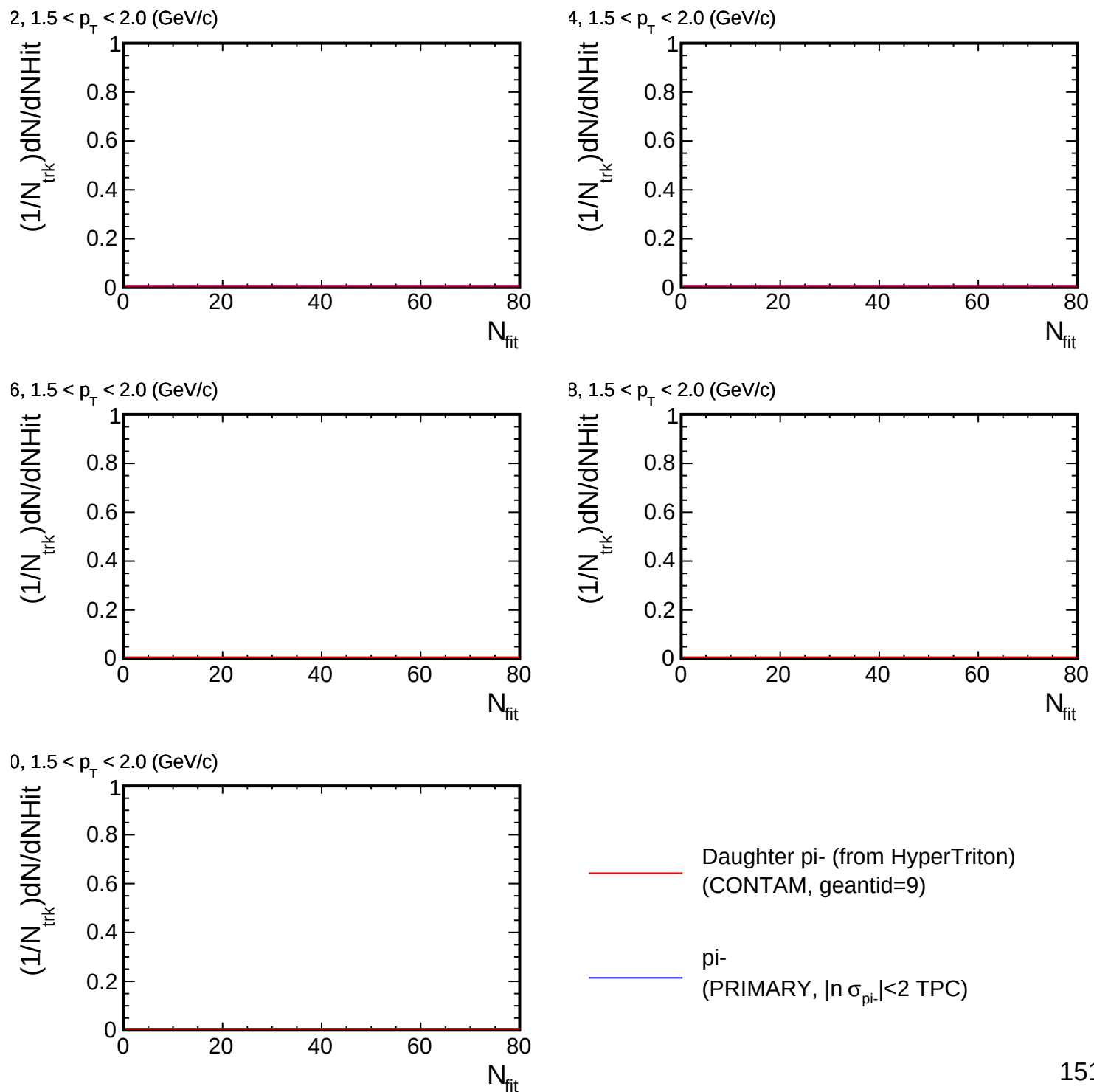
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

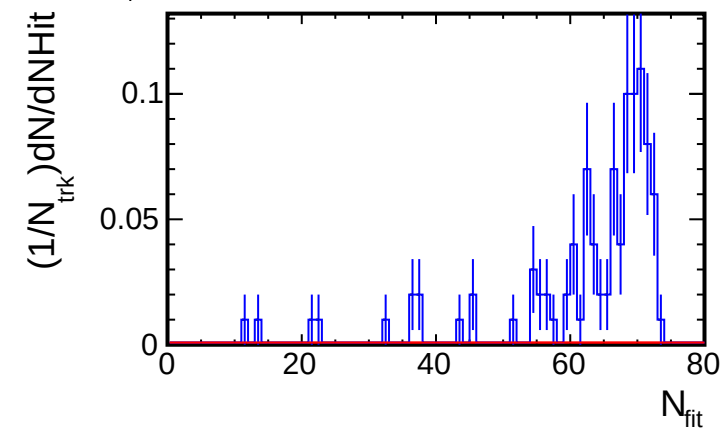


NHit distribution for (p_T , η) slices

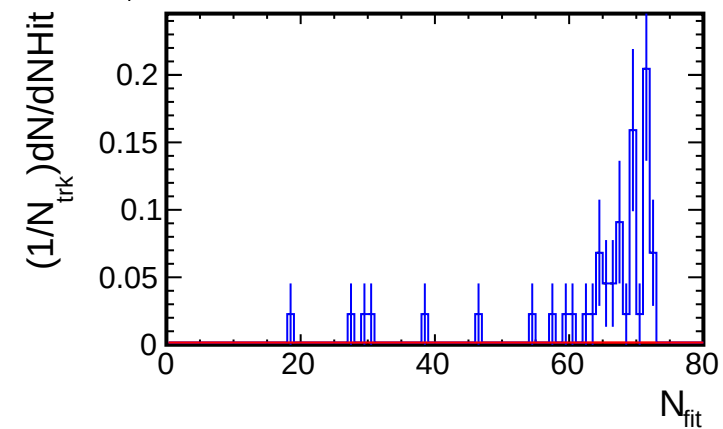


NHit distribution for (p_T , η) slices

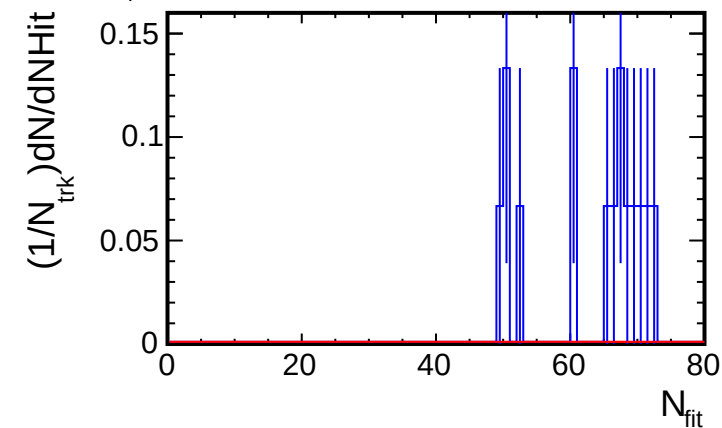
1.8, $2.0 < p_T < 2.5$ (GeV/c)



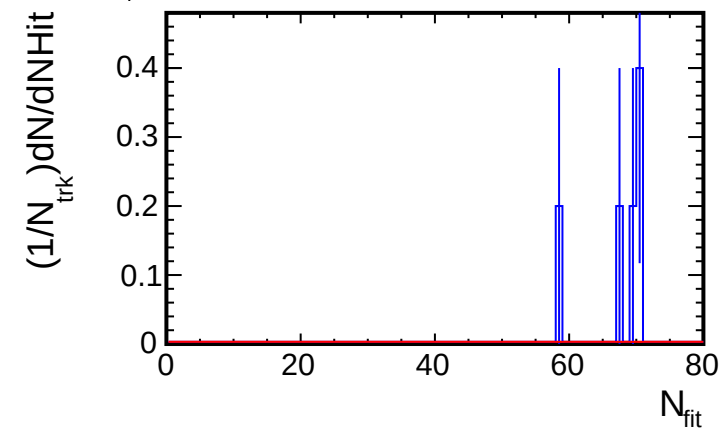
1.6, $2.0 < p_T < 2.5$ (GeV/c)



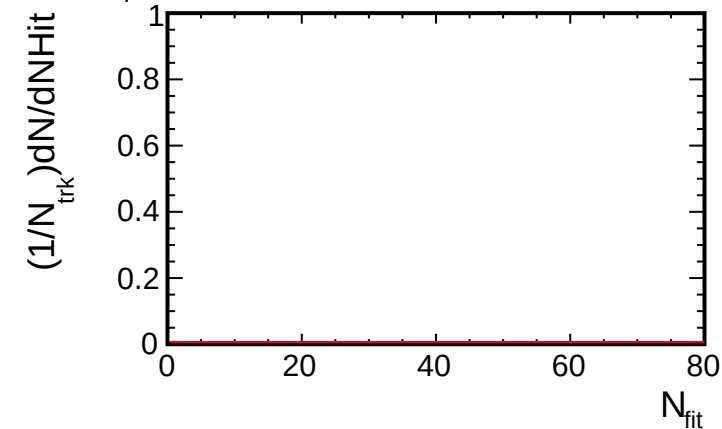
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



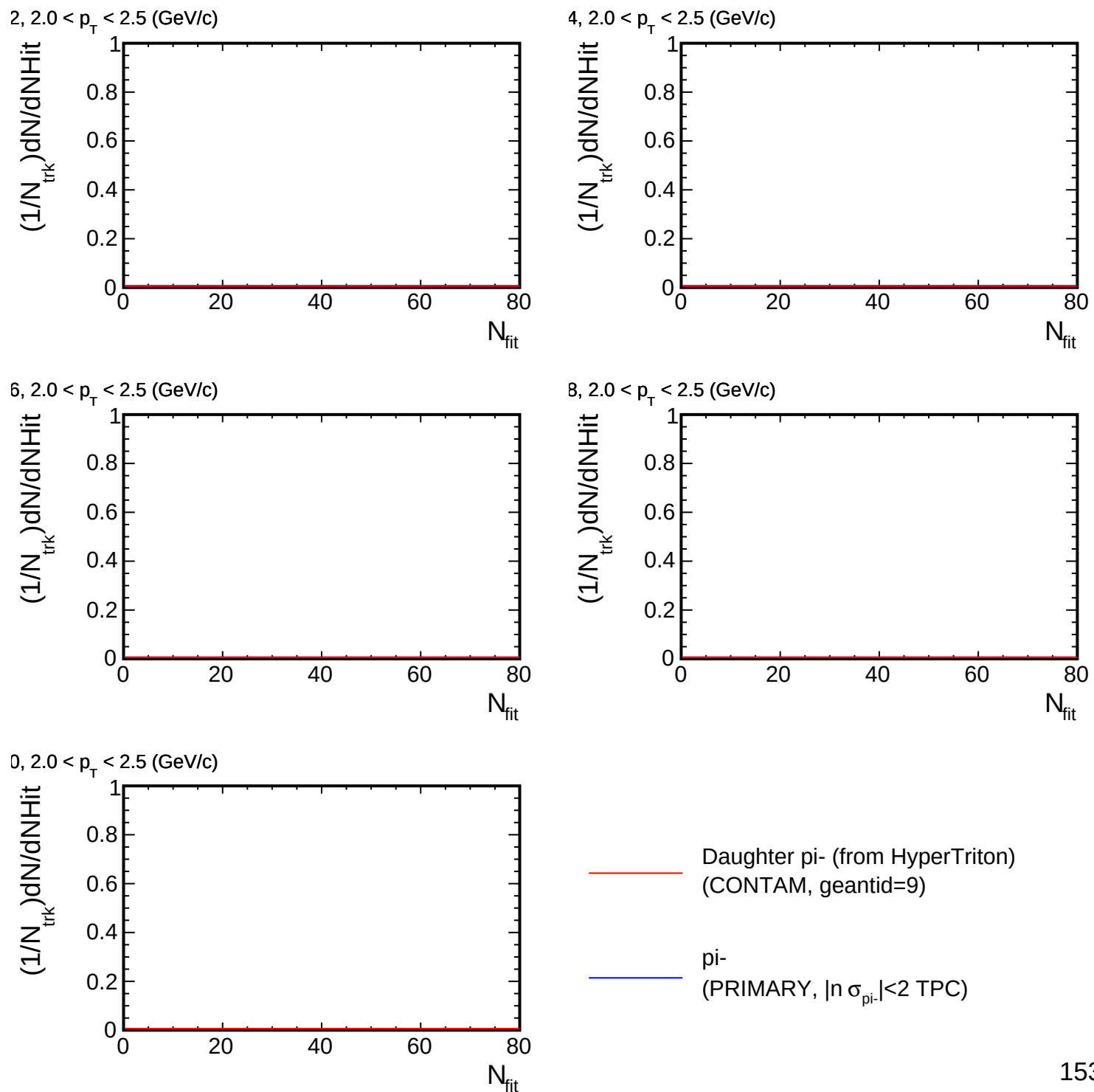
1.0, $2.0 < p_T < 2.5$ (GeV/c)



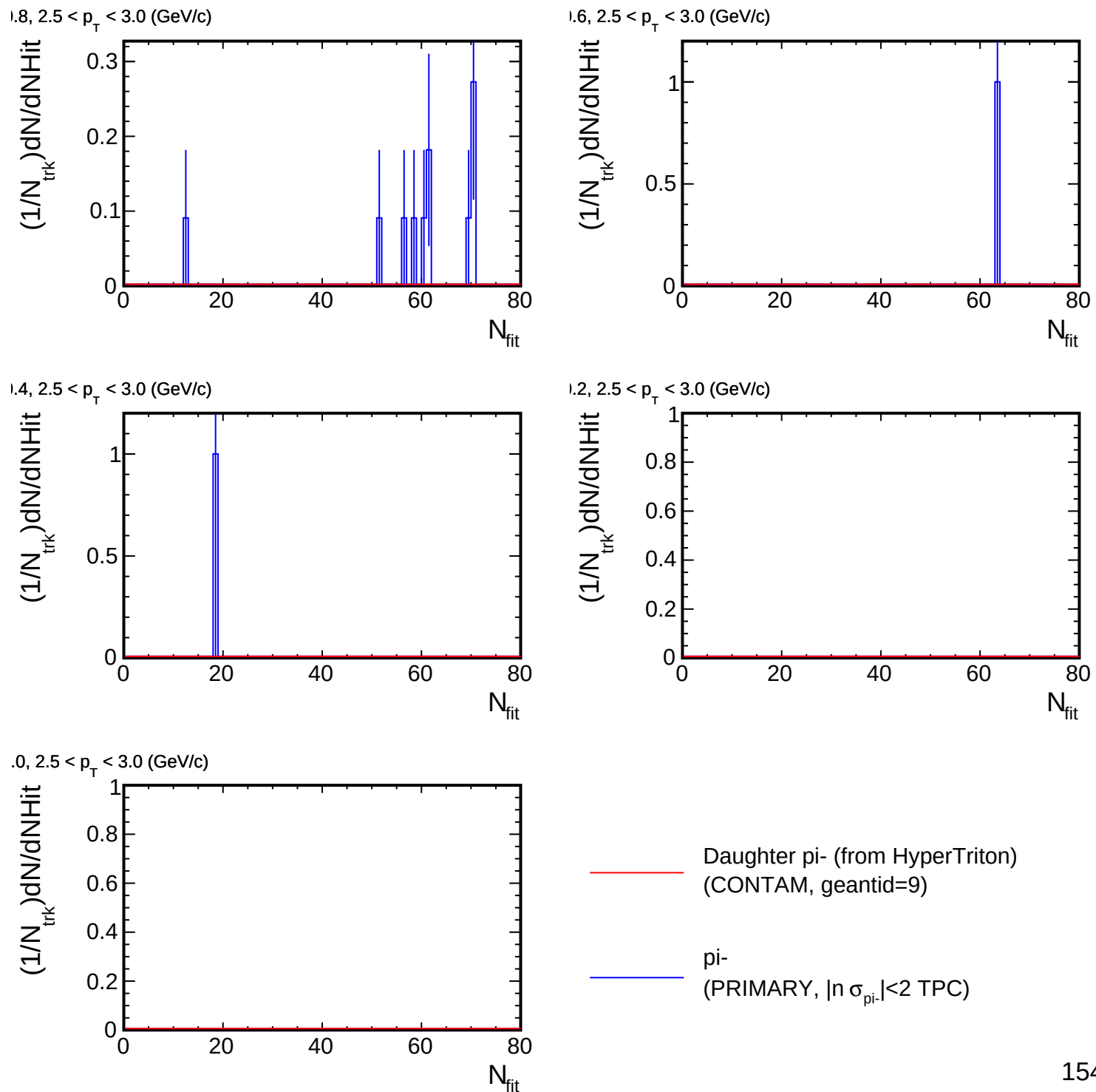
— Daughter pi- (from HyperTriton)
(CONTAM, geantid=9)

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

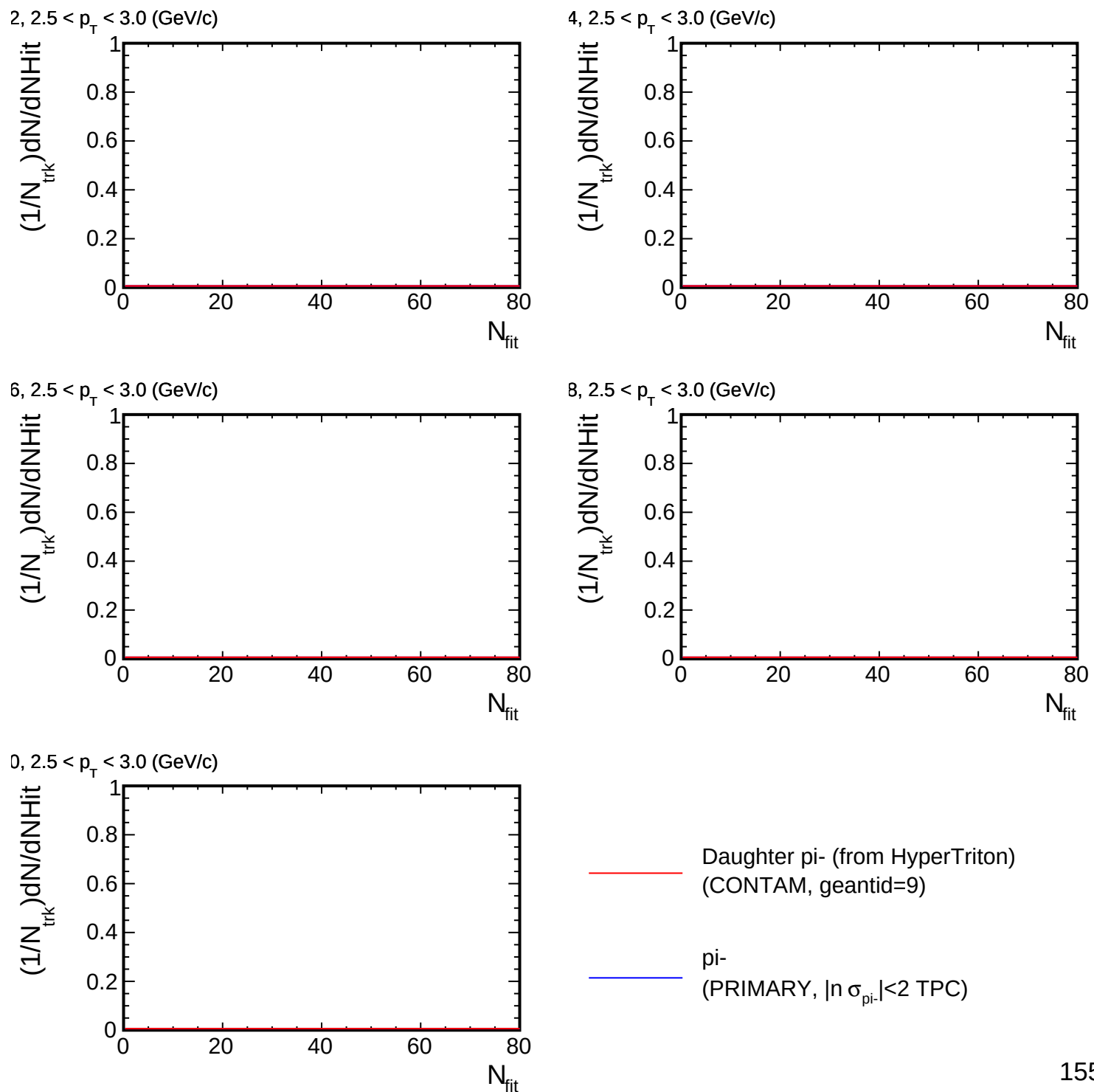
NHit distribution for (p_T , η) slices



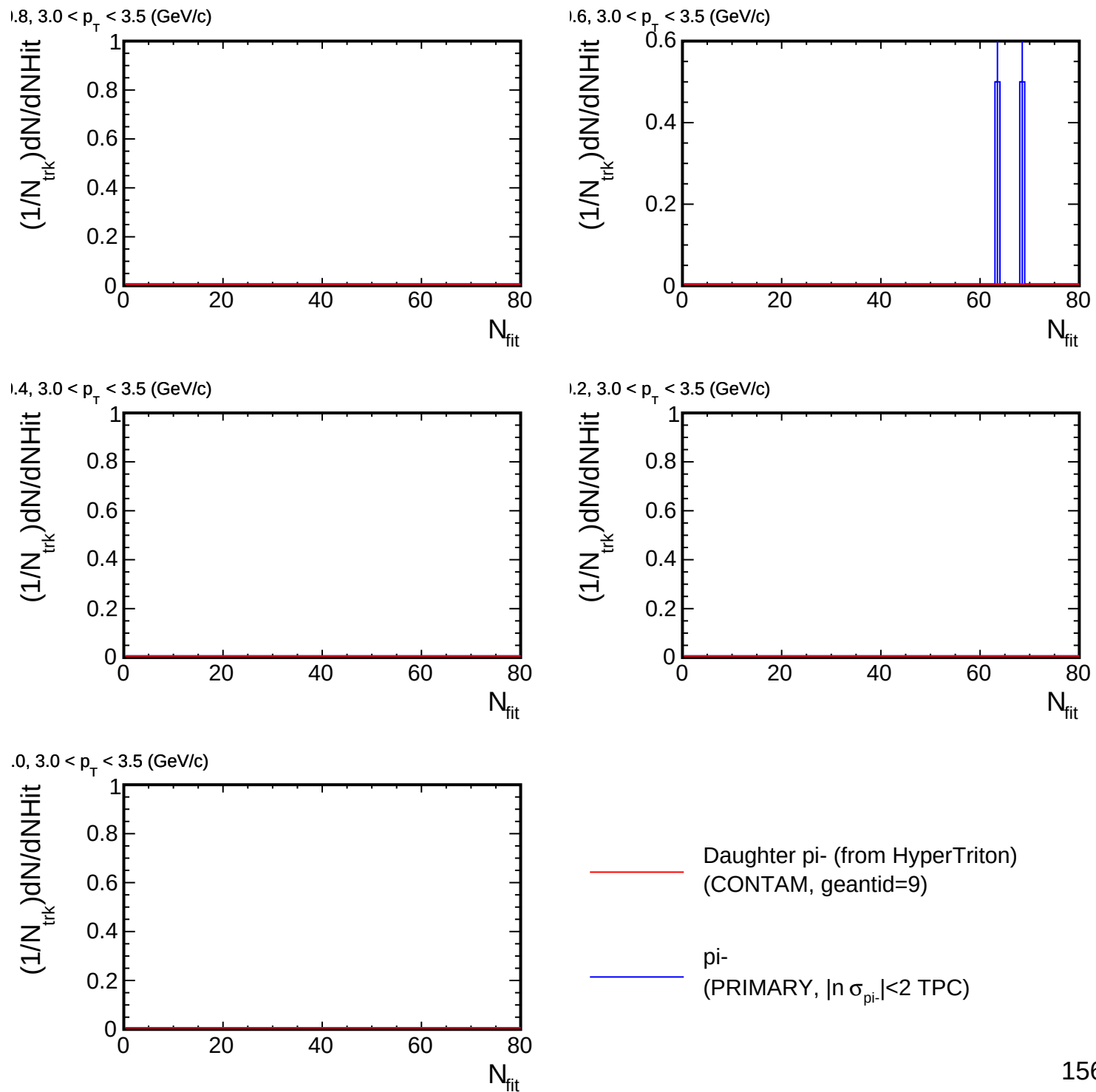
NHit distribution for (p_T , η) slices



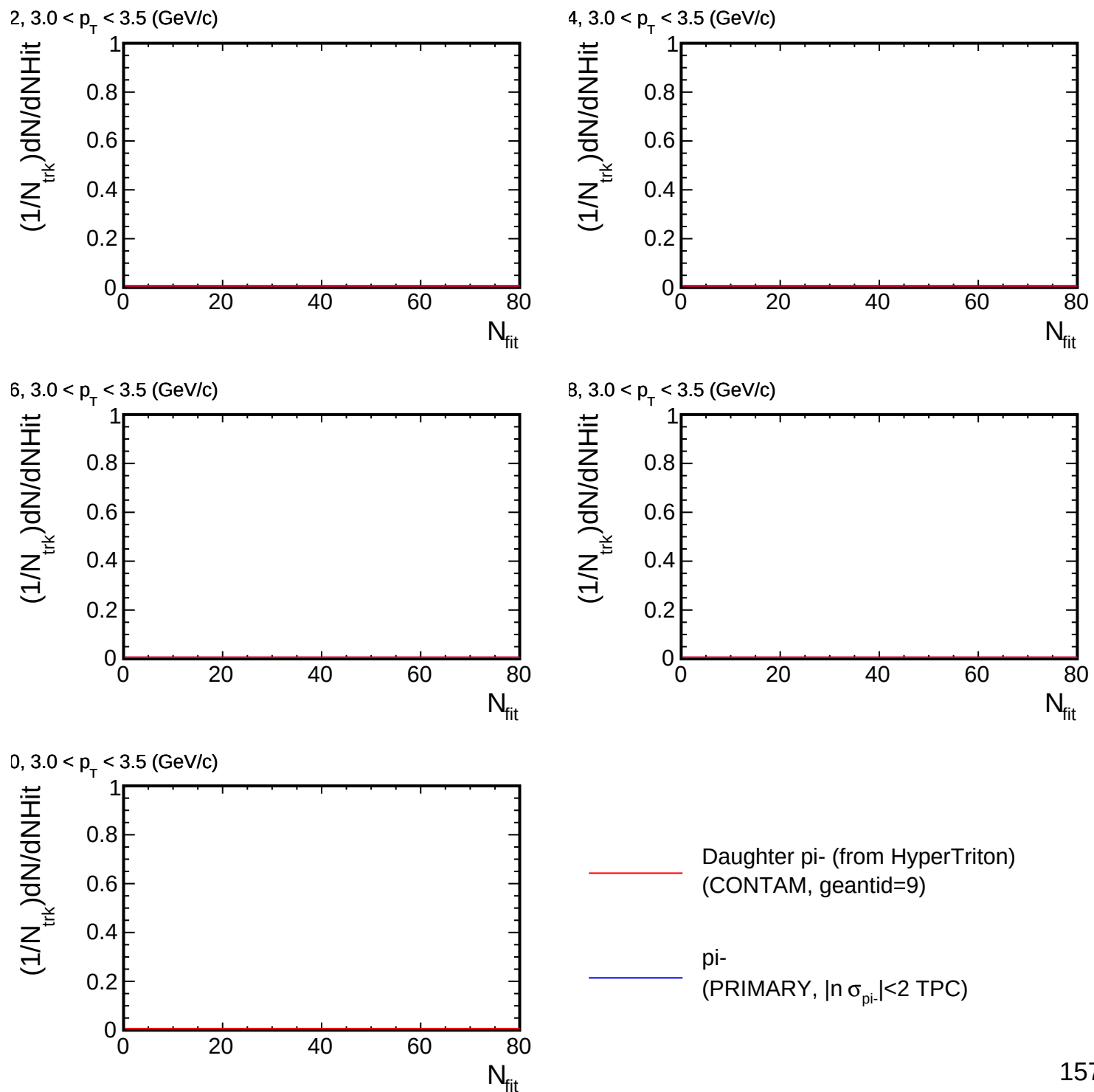
NHit distribution for (p_T , η) slices



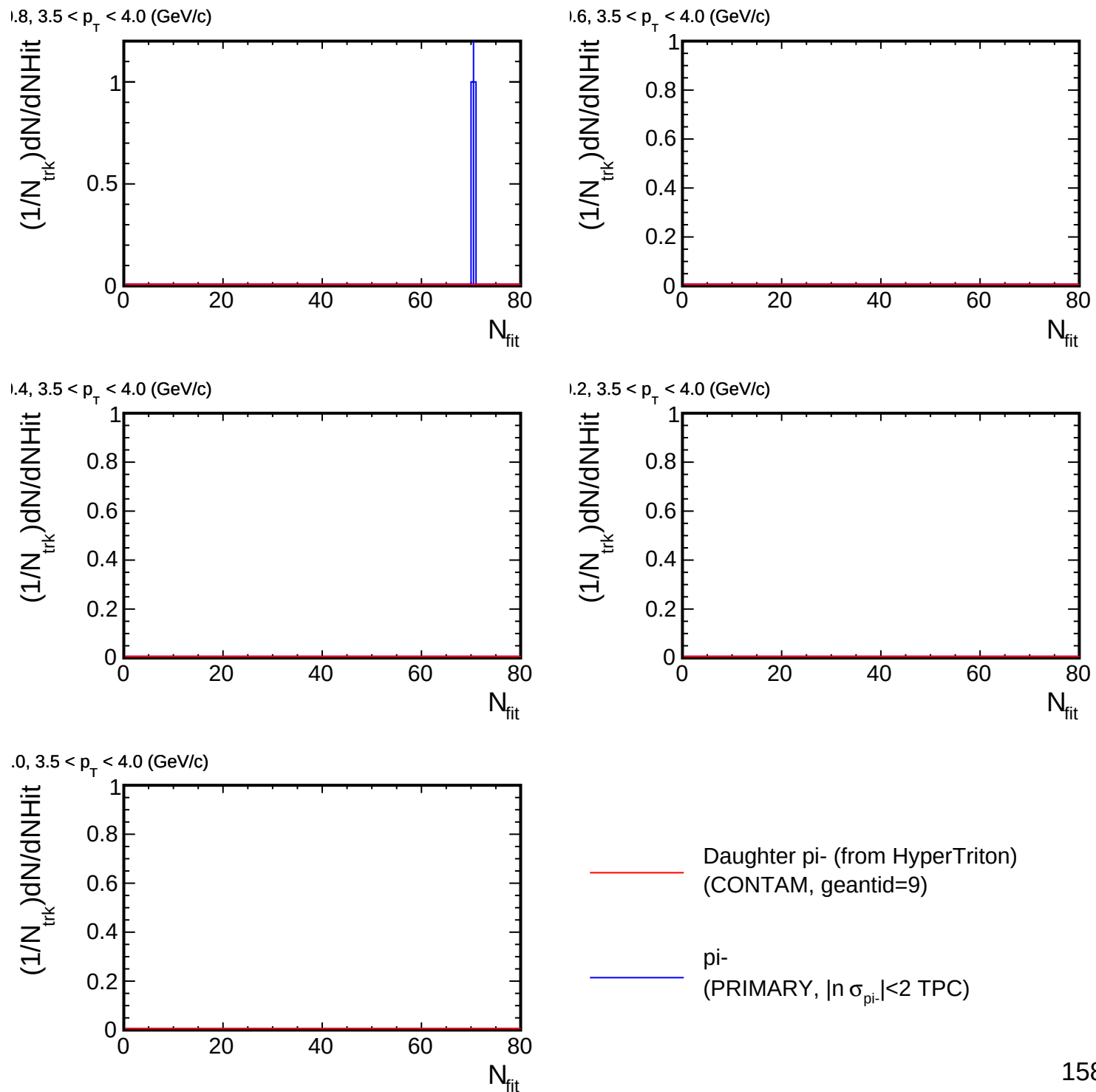
NHit distribution for (p_T , η) slices



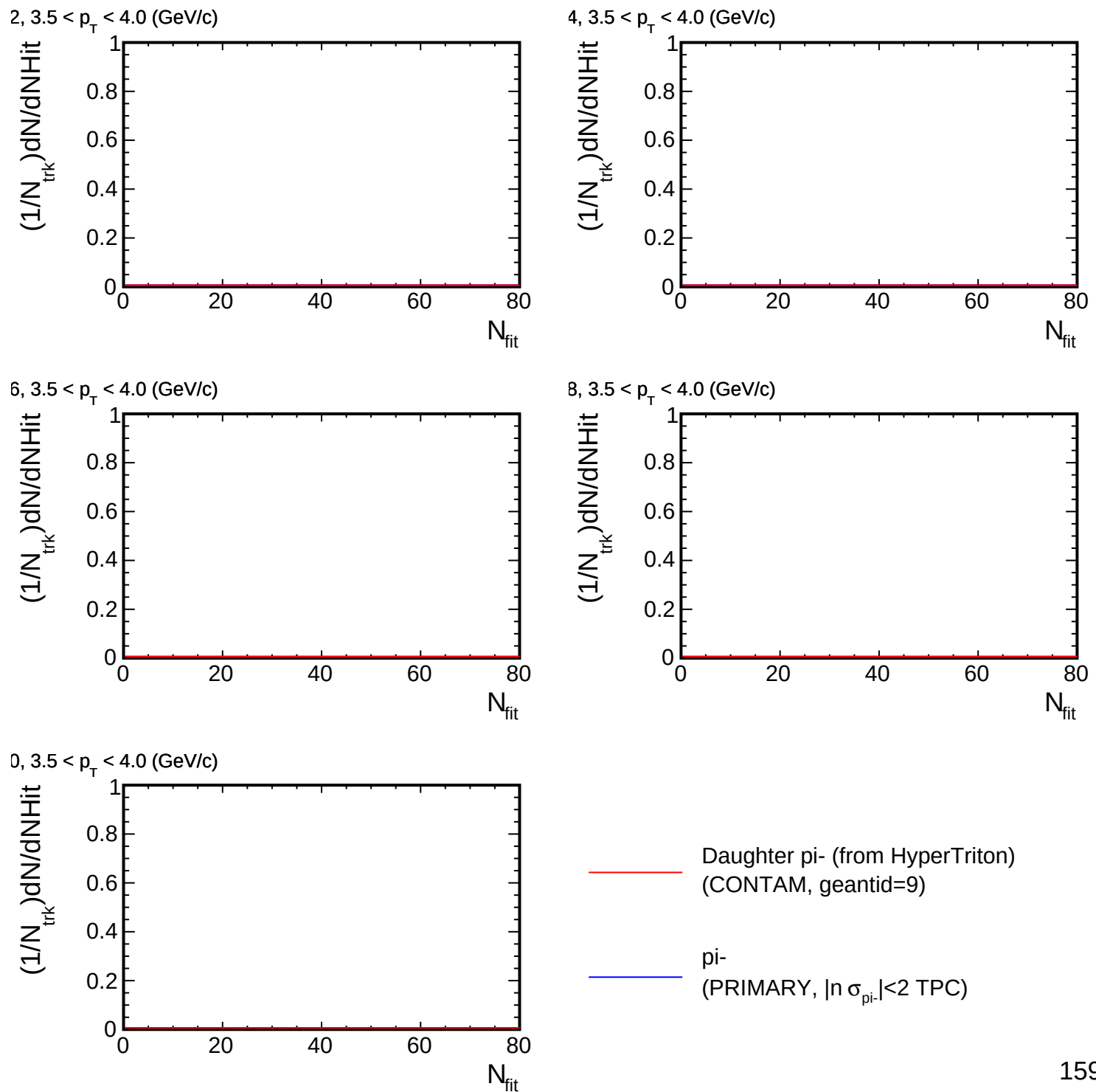
NHit distribution for (p_T , η) slices



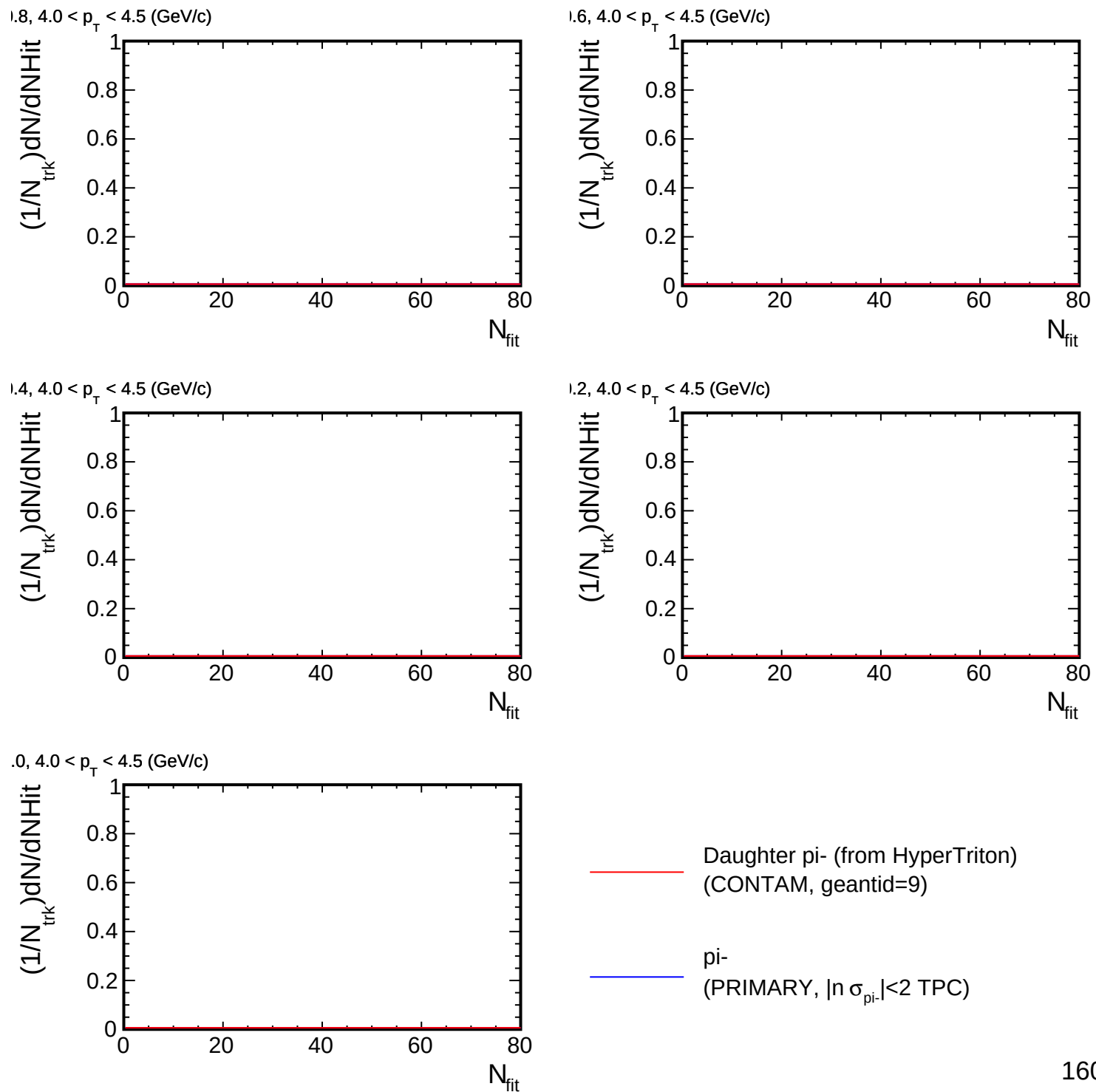
NHit distribution for (p_T , η) slices



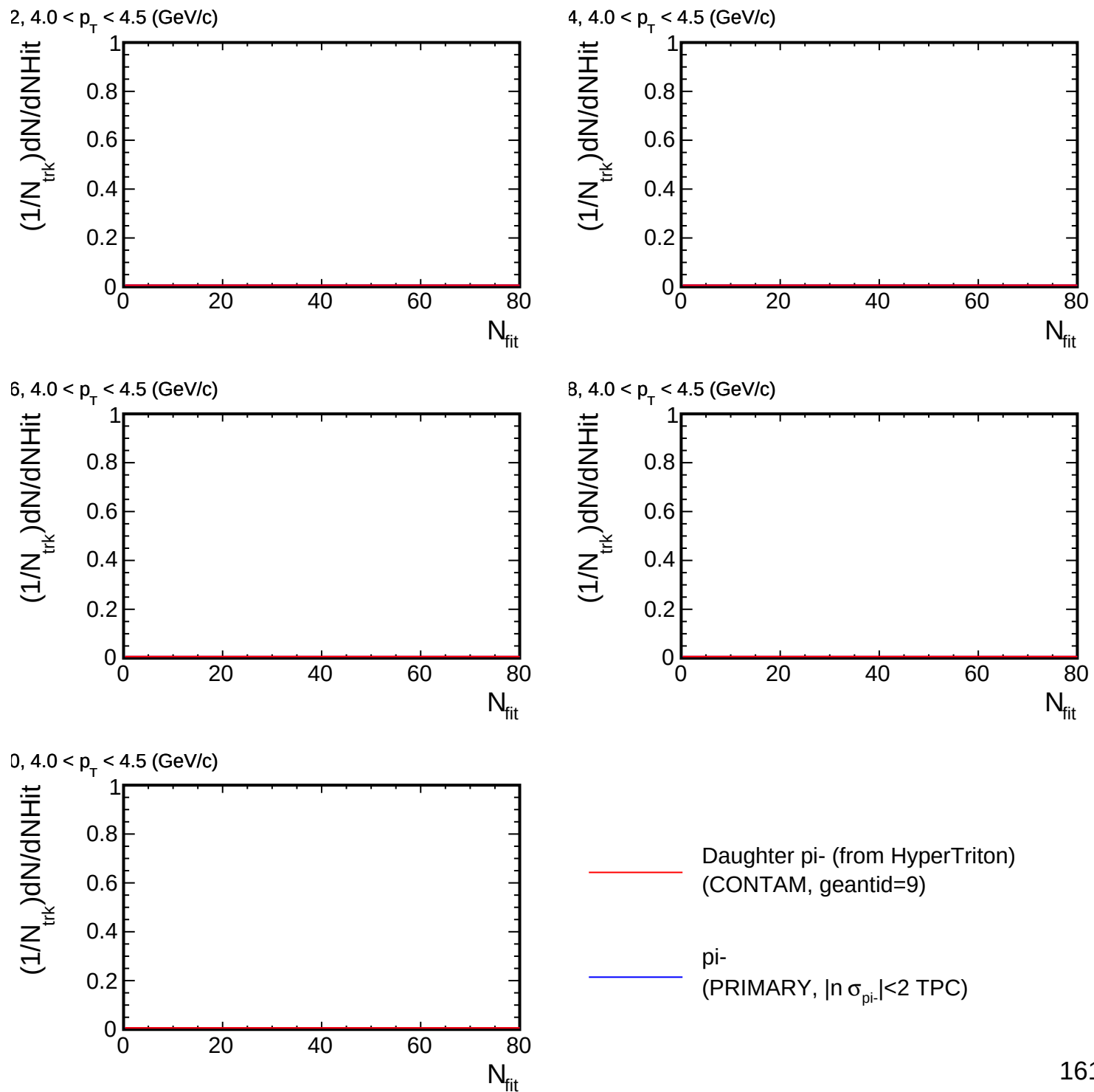
NHit distribution for (p_T , η) slices



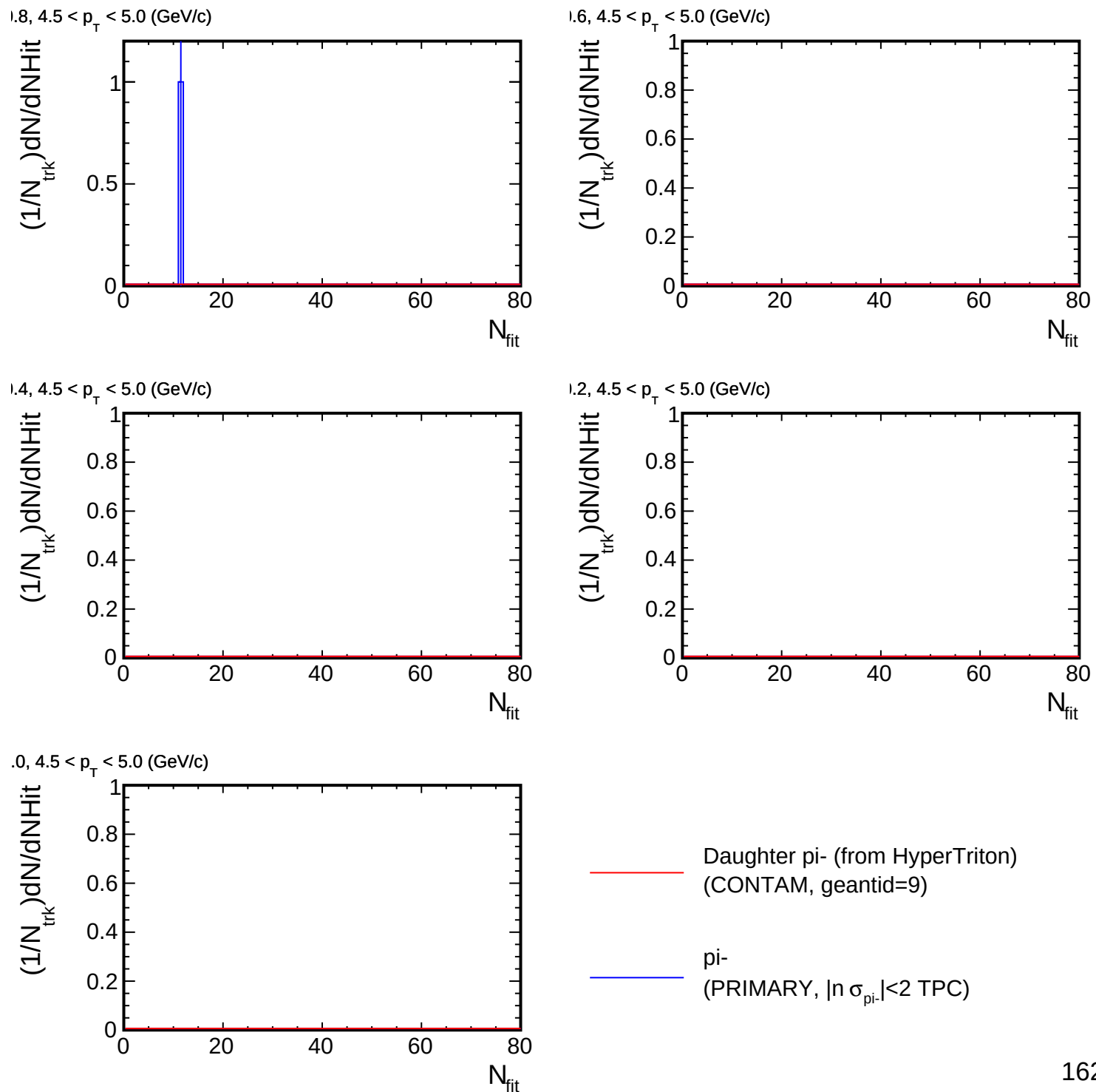
NHit distribution for (p_T , η) slices



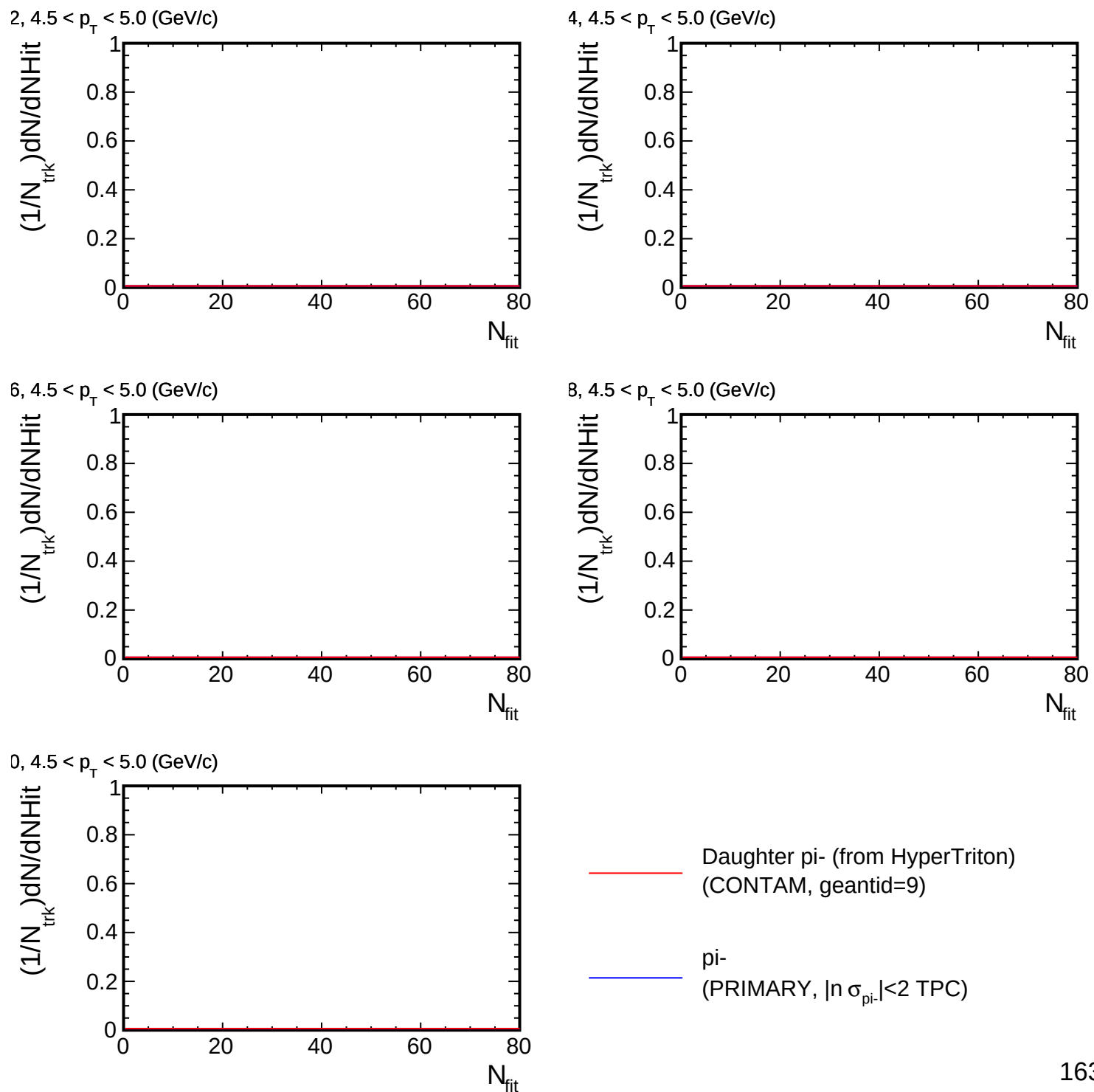
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

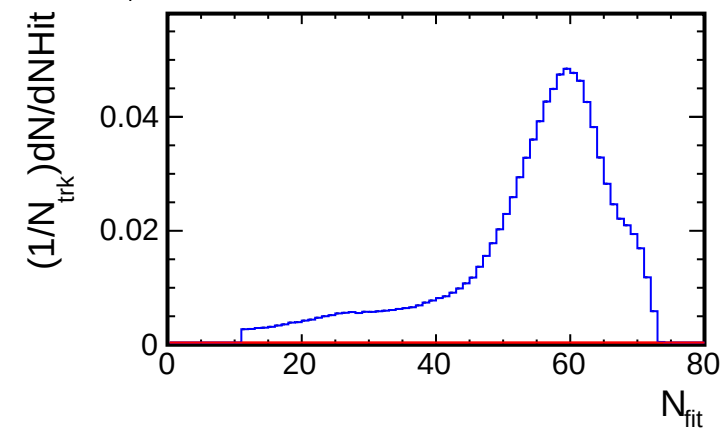


NHit distribution for (p_T , η) slices

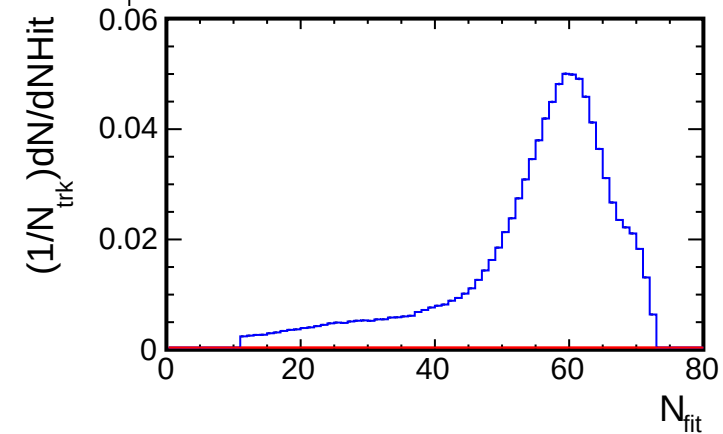


NHit distribution for (p_T , η) slices

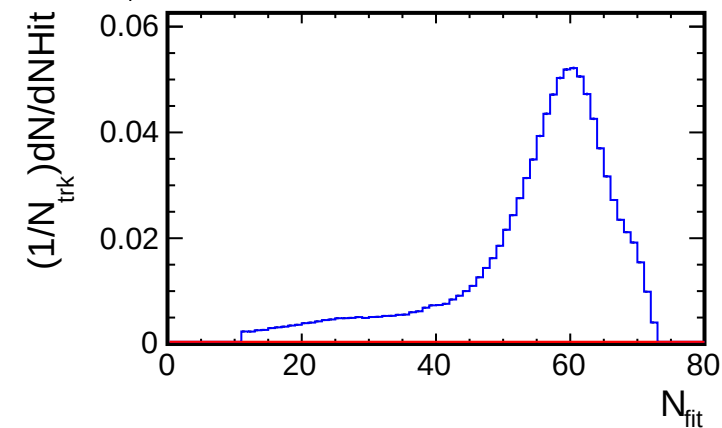
1.8, $0.1 < p_T < 0.5$ (GeV/c)



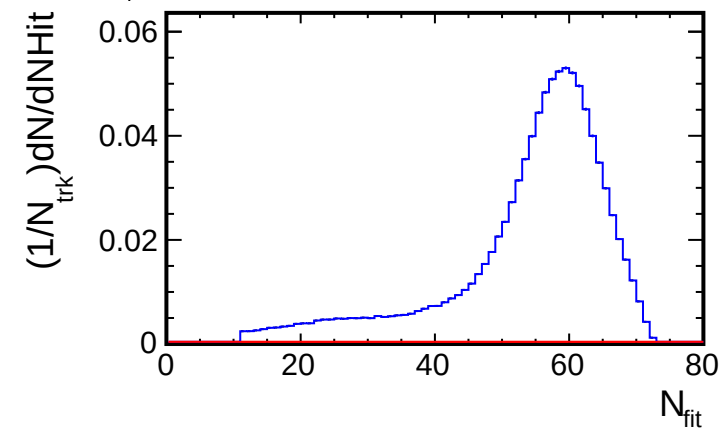
1.6, $0.1 < p_T < 0.5$ (GeV/c)



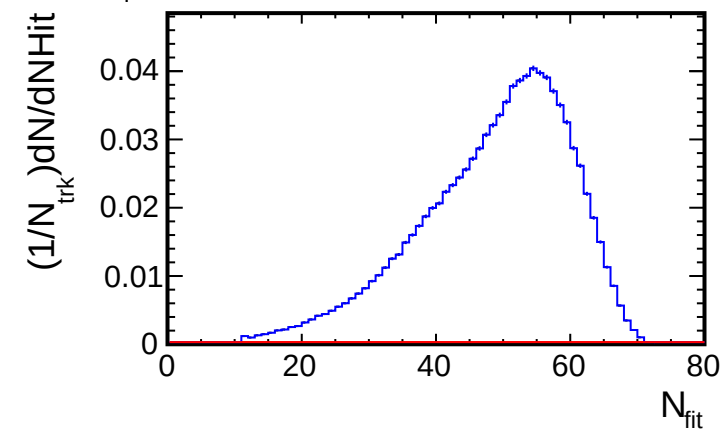
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



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

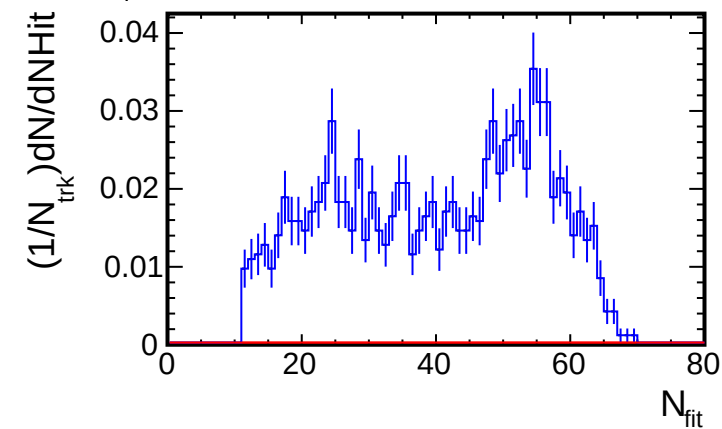


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

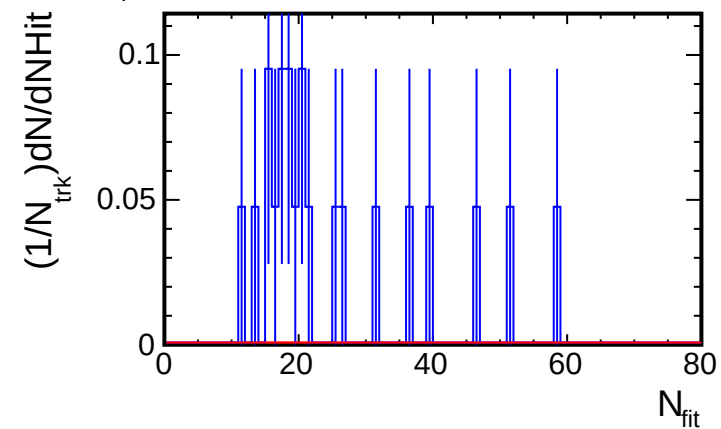
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

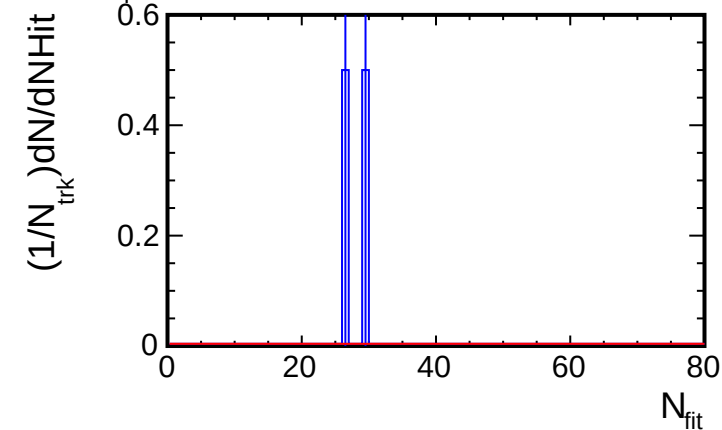
2, $0.1 < p_T < 0.5$ (GeV/c)



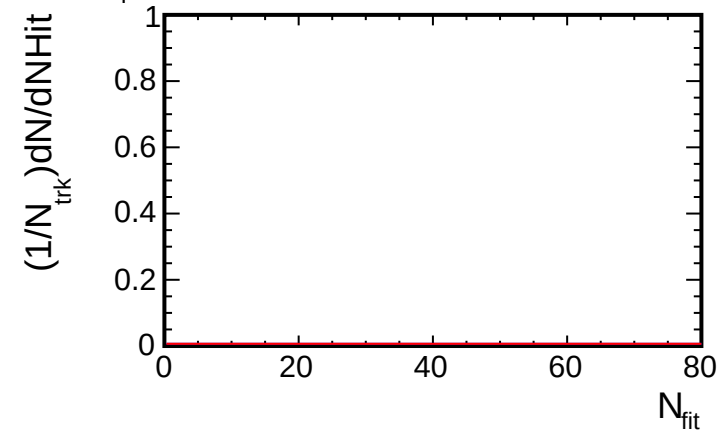
4, $0.1 < p_T < 0.5$ (GeV/c)



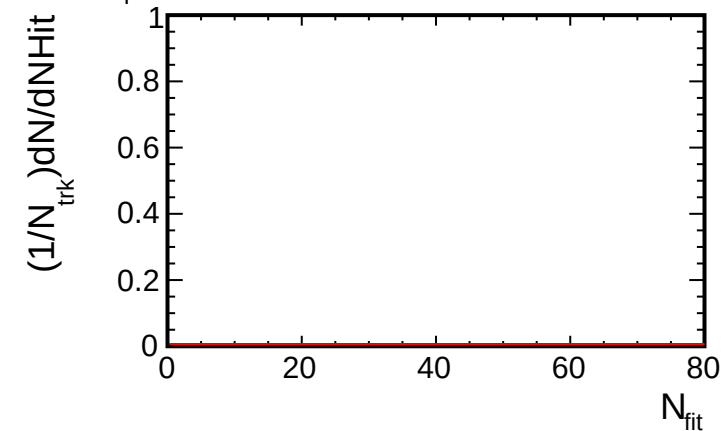
6, $0.1 < p_T < 0.5$ (GeV/c)



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



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

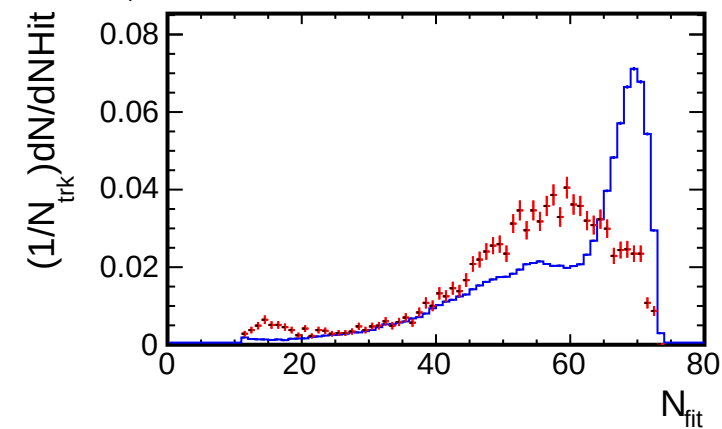


— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

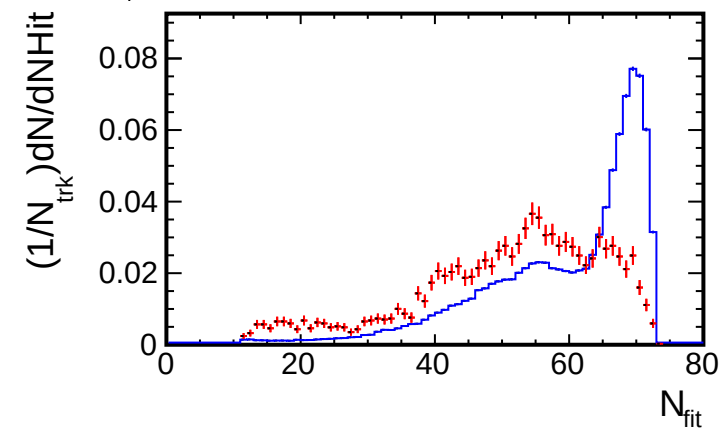
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

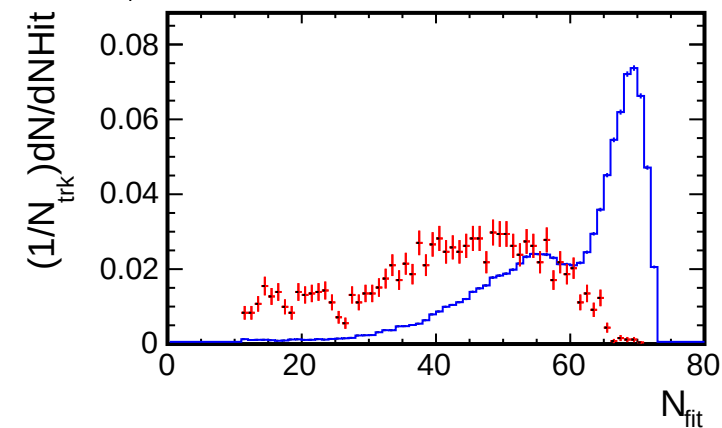
1.8, $0.5 < p_T < 1.0$ (GeV/c)



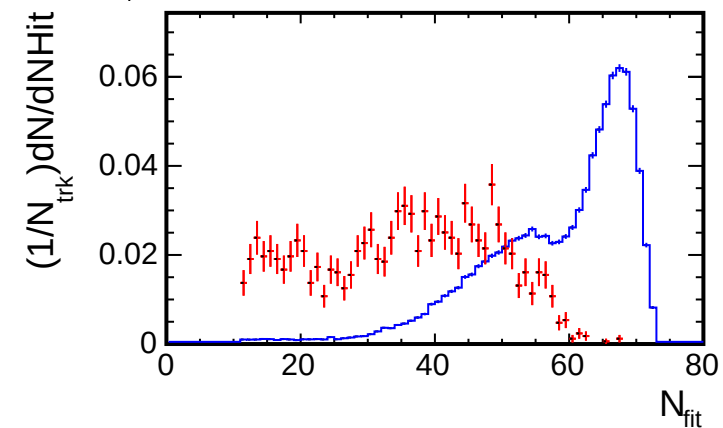
1.6, $0.5 < p_T < 1.0$ (GeV/c)



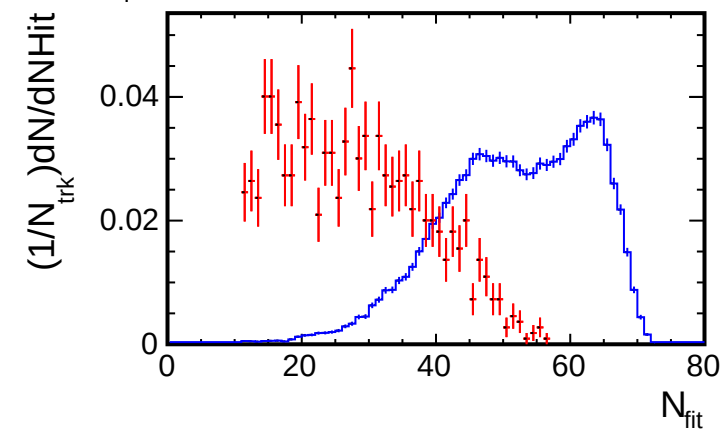
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



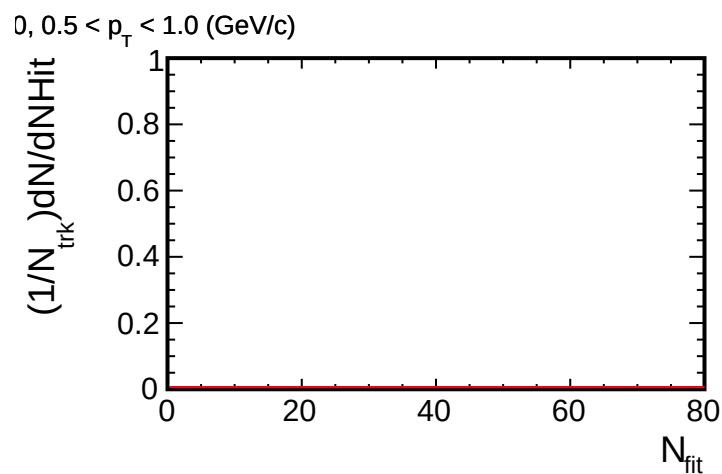
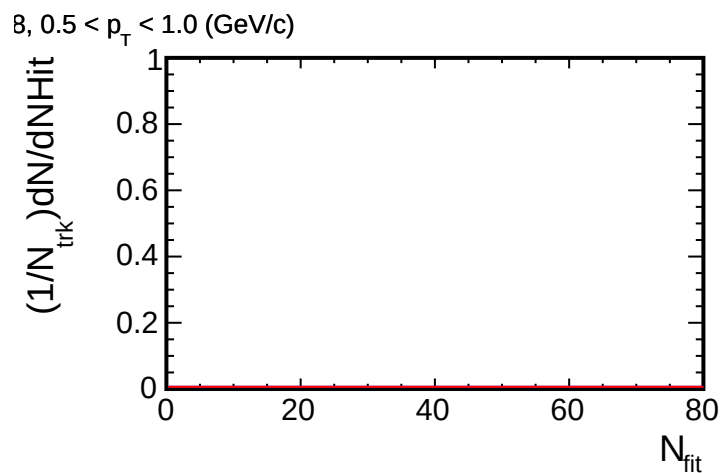
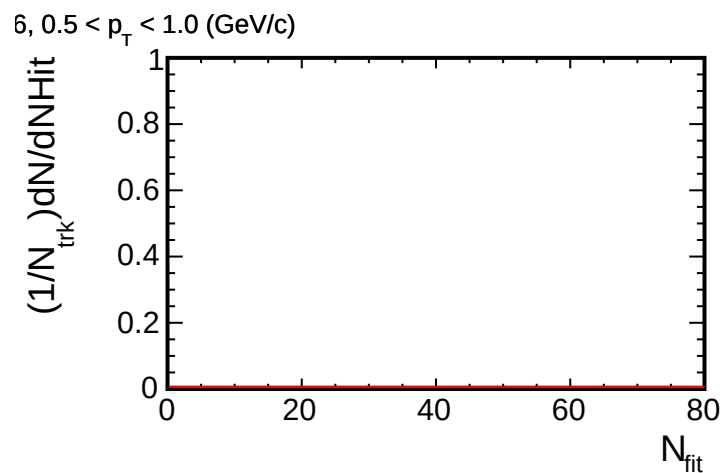
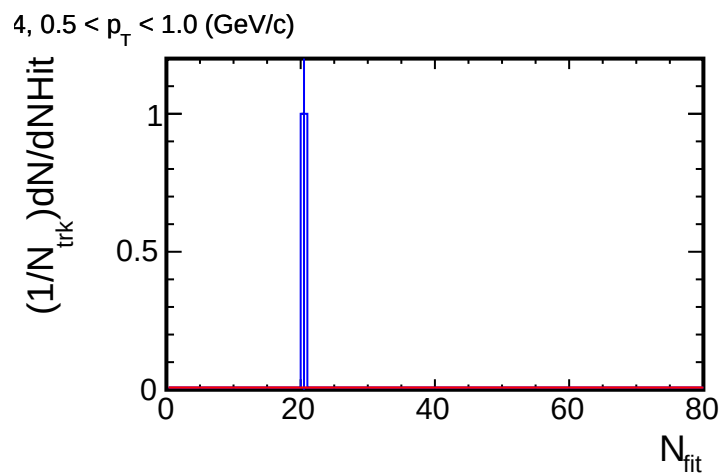
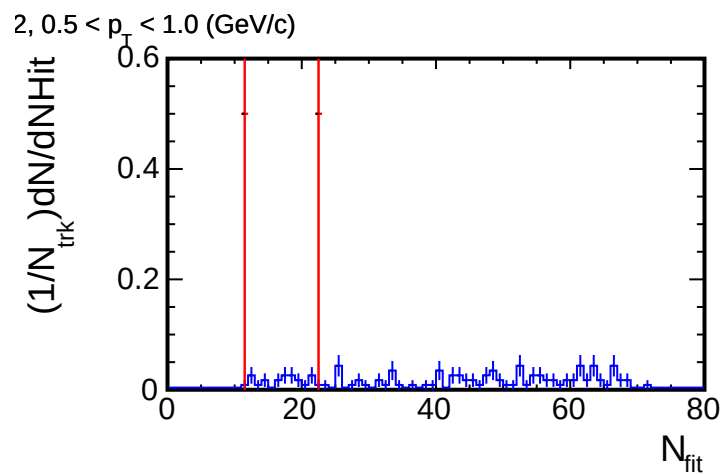
1.0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

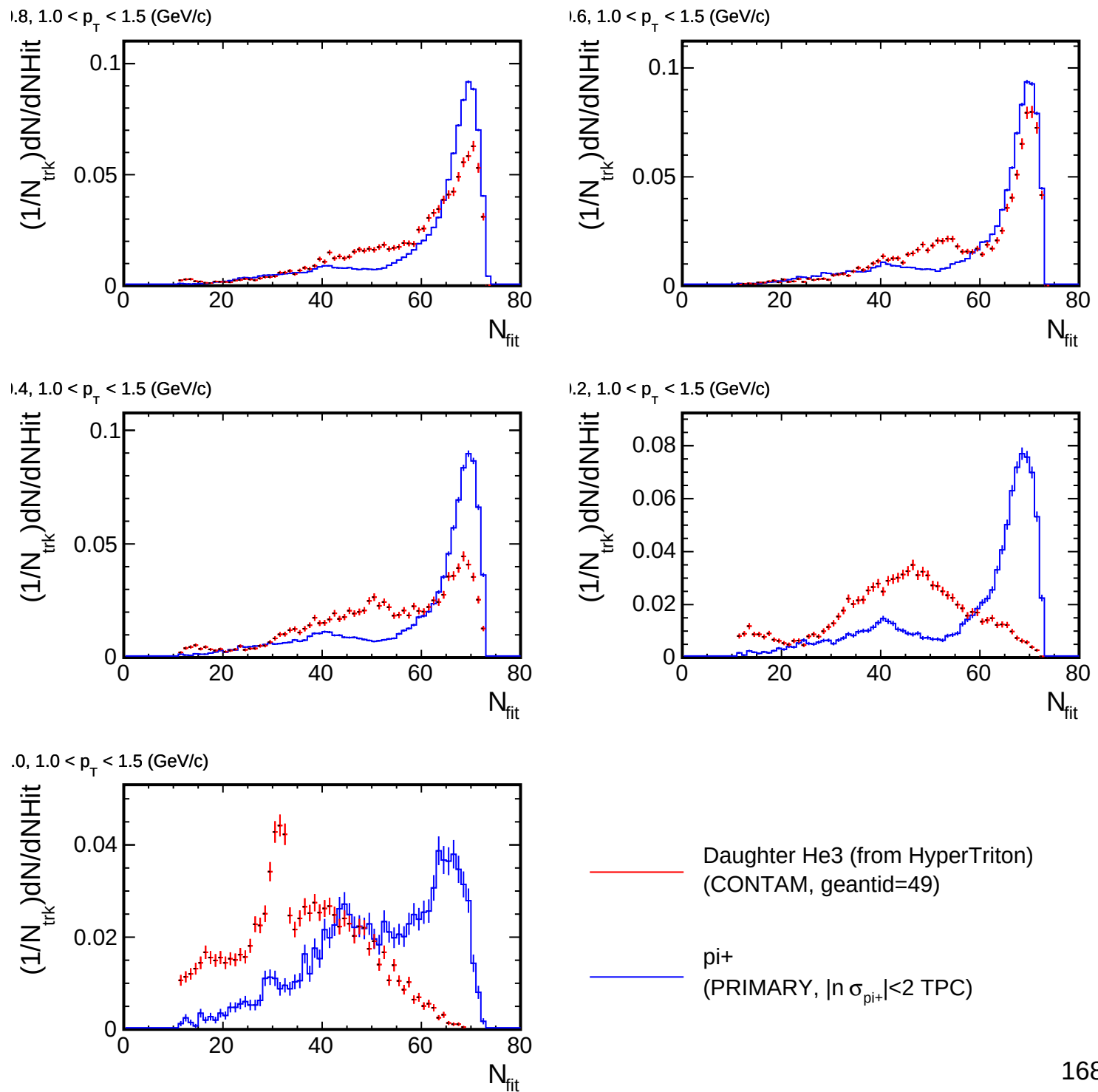
NHit distribution for (p_T , η) slices



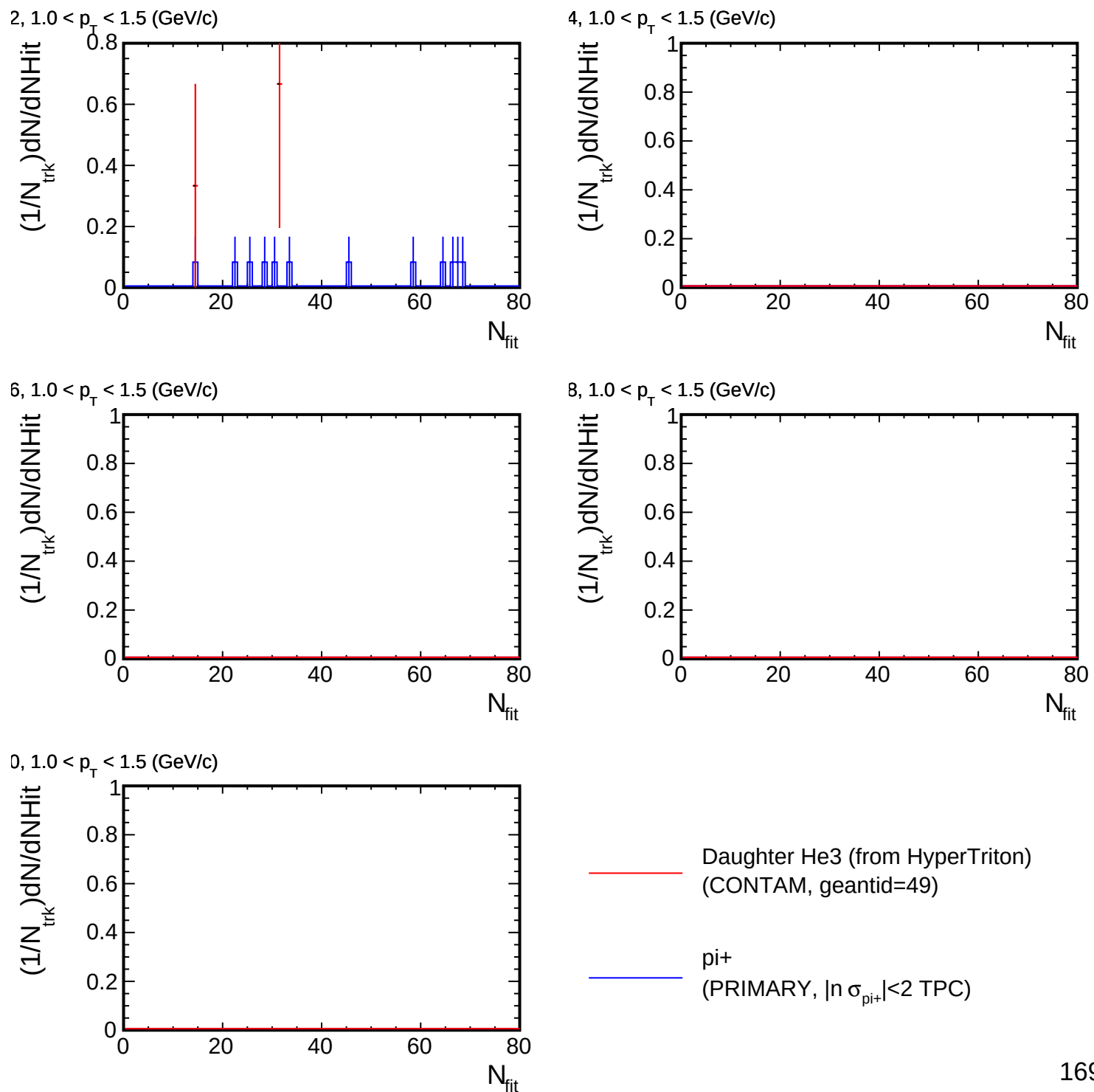
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

NHit distribution for (p_T , η) slices

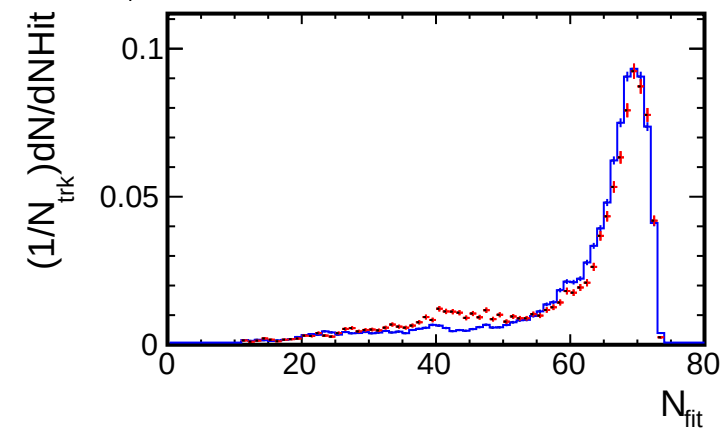


NHit distribution for (p_T , η) slices

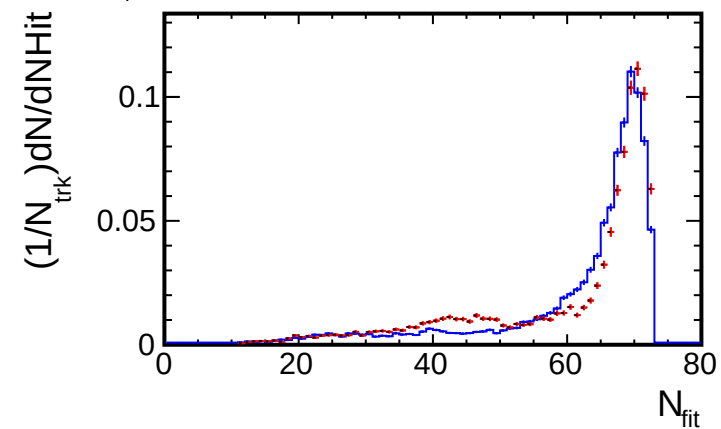


NHit distribution for (p_T , η) slices

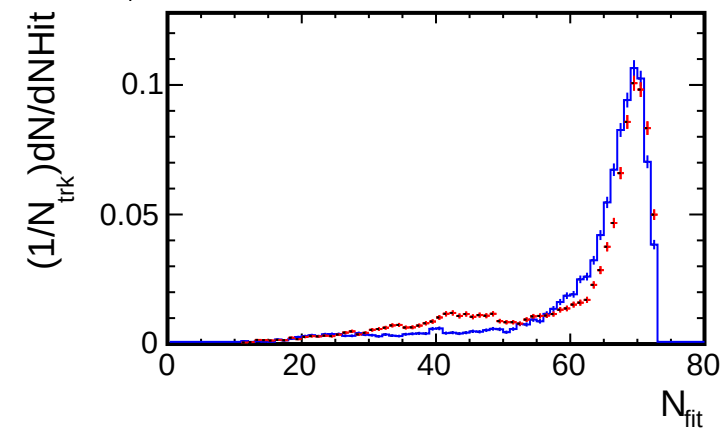
1.8, $1.5 < p_T < 2.0$ (GeV/c)



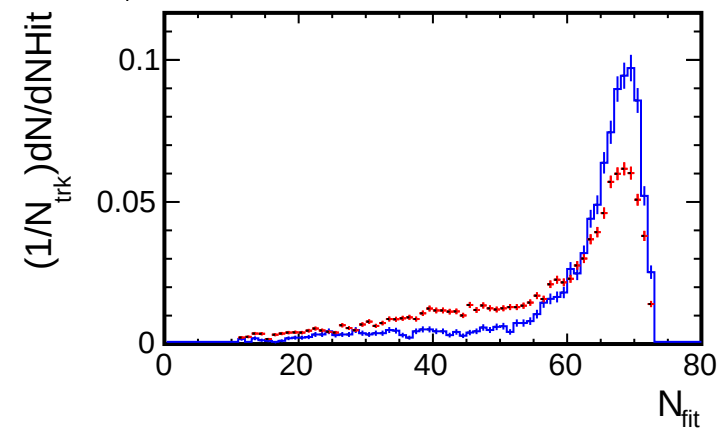
1.6, $1.5 < p_T < 2.0$ (GeV/c)



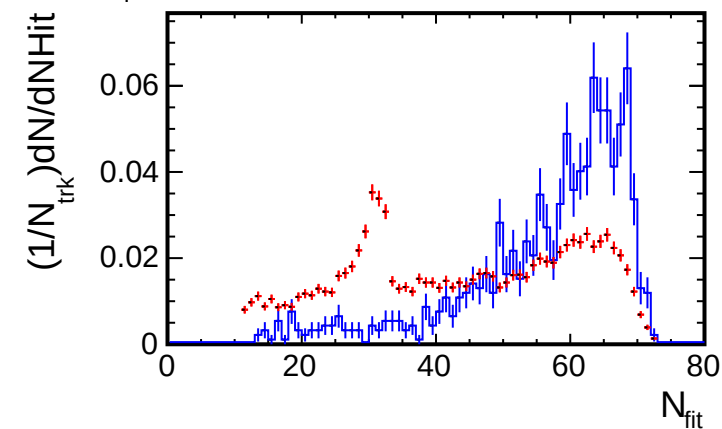
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



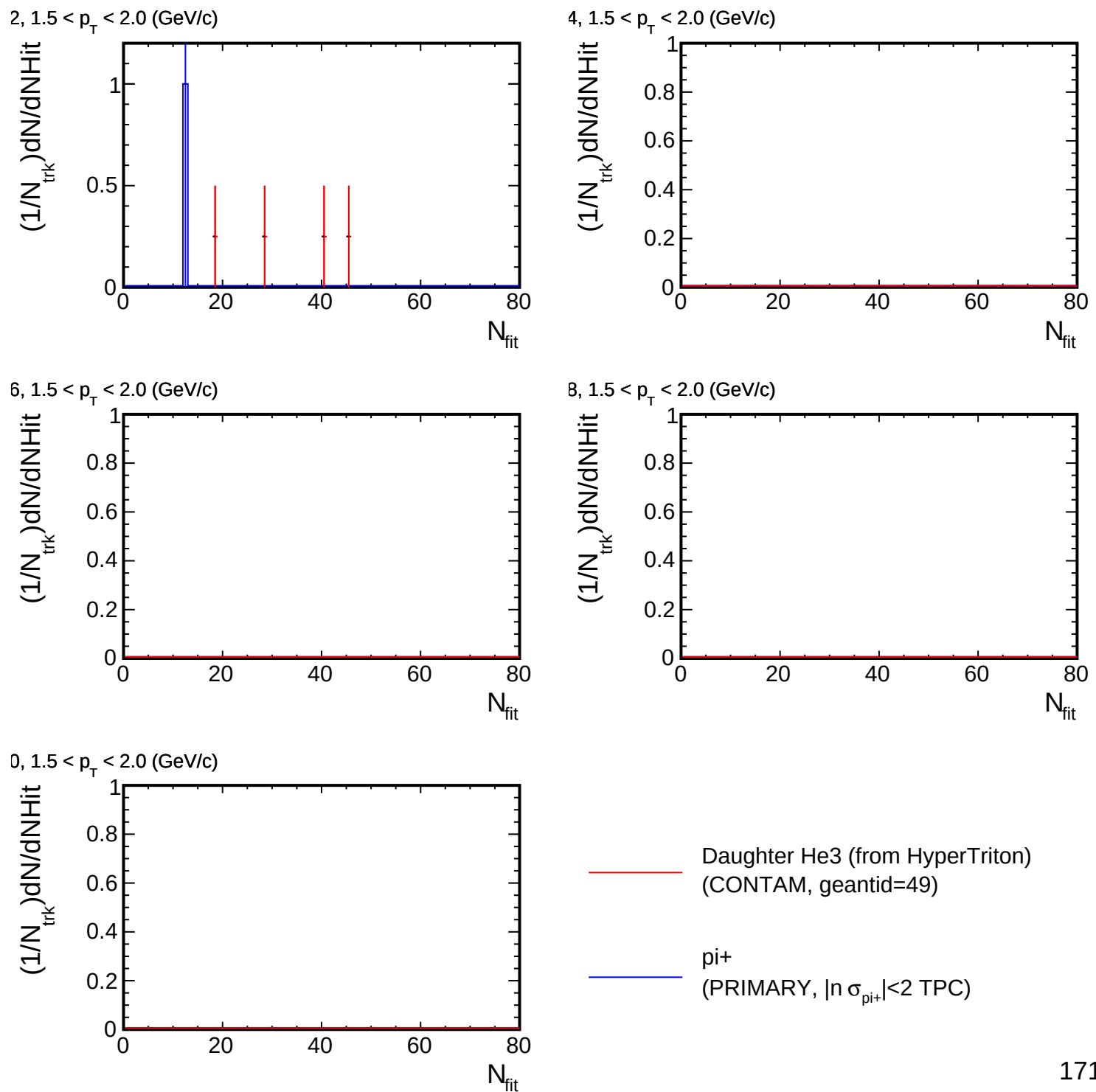
1.0, $1.5 < p_T < 2.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

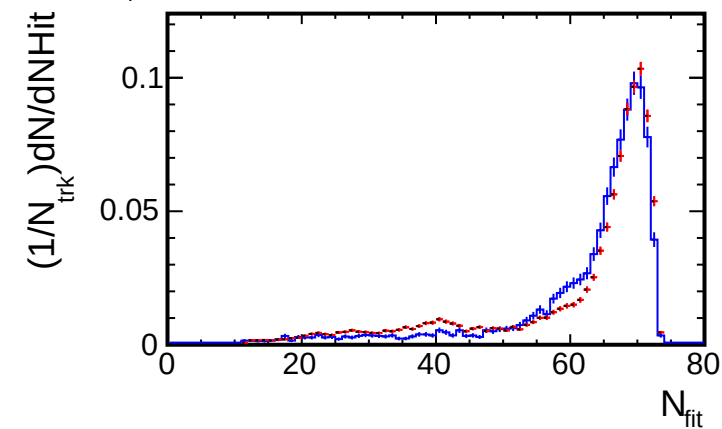
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

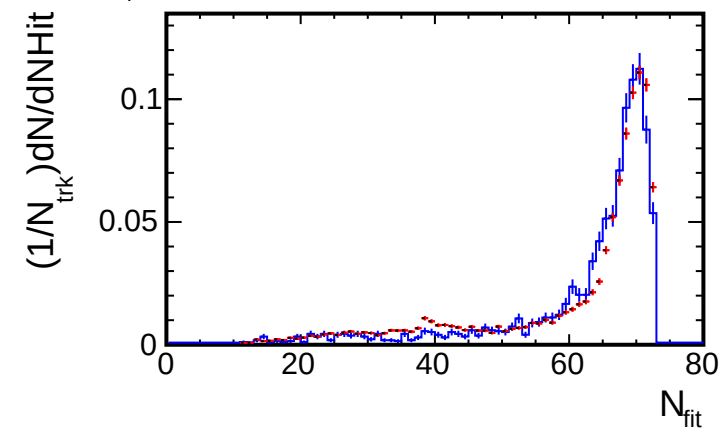


NHit distribution for (p_T , η) slices

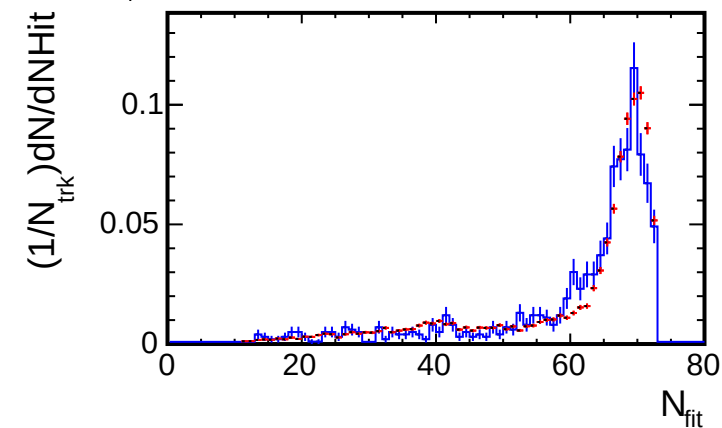
1.8, $2.0 < p_T < 2.5$ (GeV/c)



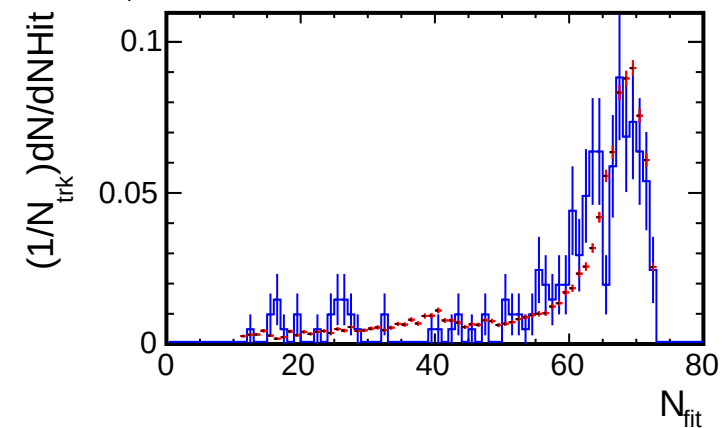
1.6, $2.0 < p_T < 2.5$ (GeV/c)



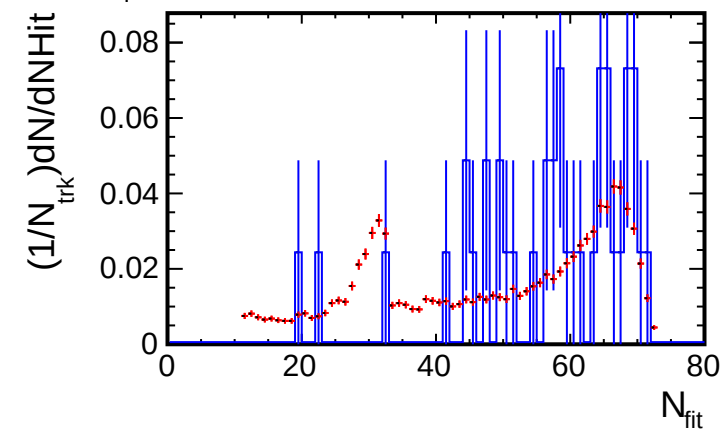
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



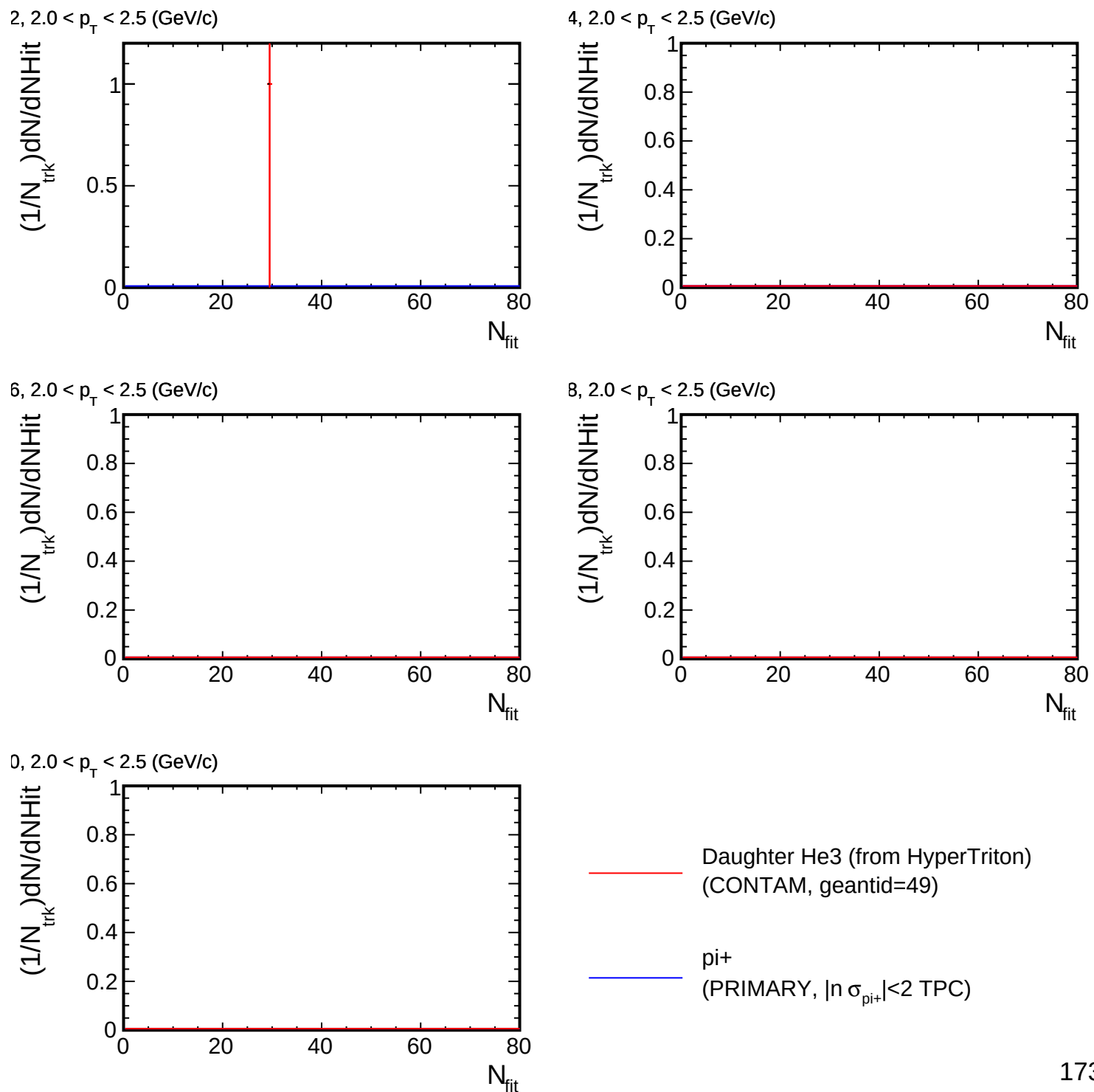
1.0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

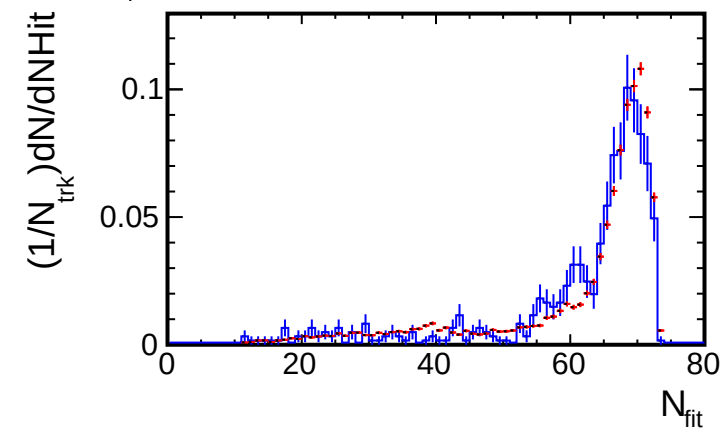
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

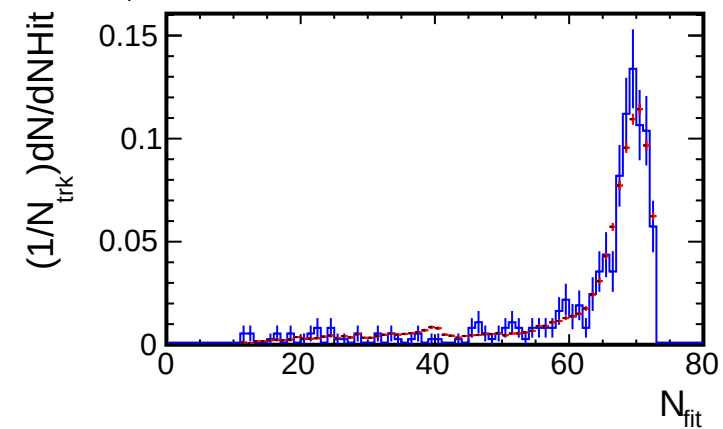


NHit distribution for (p_T , η) slices

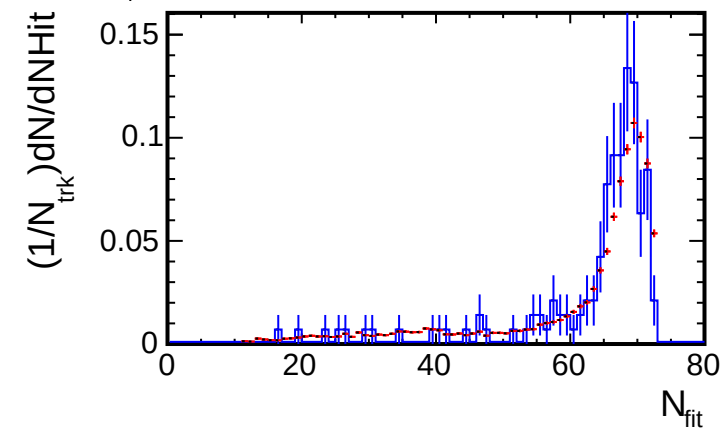
1.8, $2.5 < p_T < 3.0$ (GeV/c)



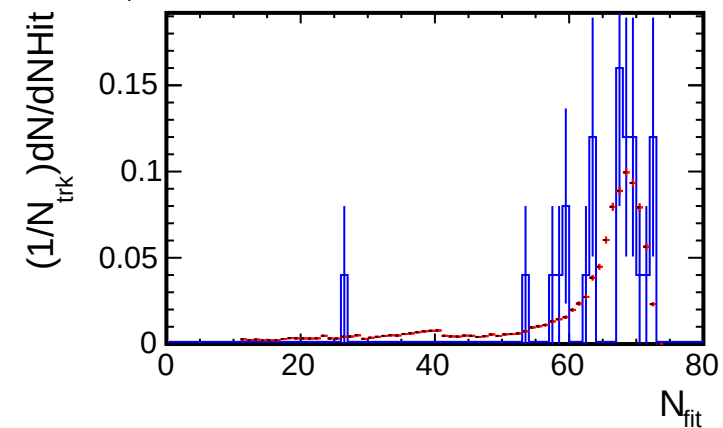
1.6, $2.5 < p_T < 3.0$ (GeV/c)



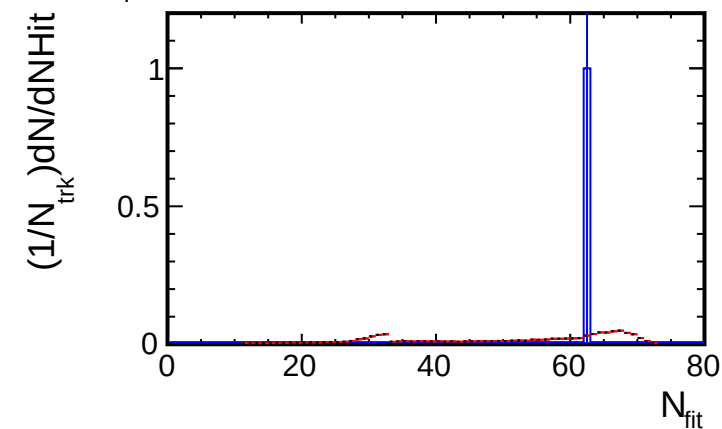
1.4, $2.5 < p_T < 3.0$ (GeV/c)



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



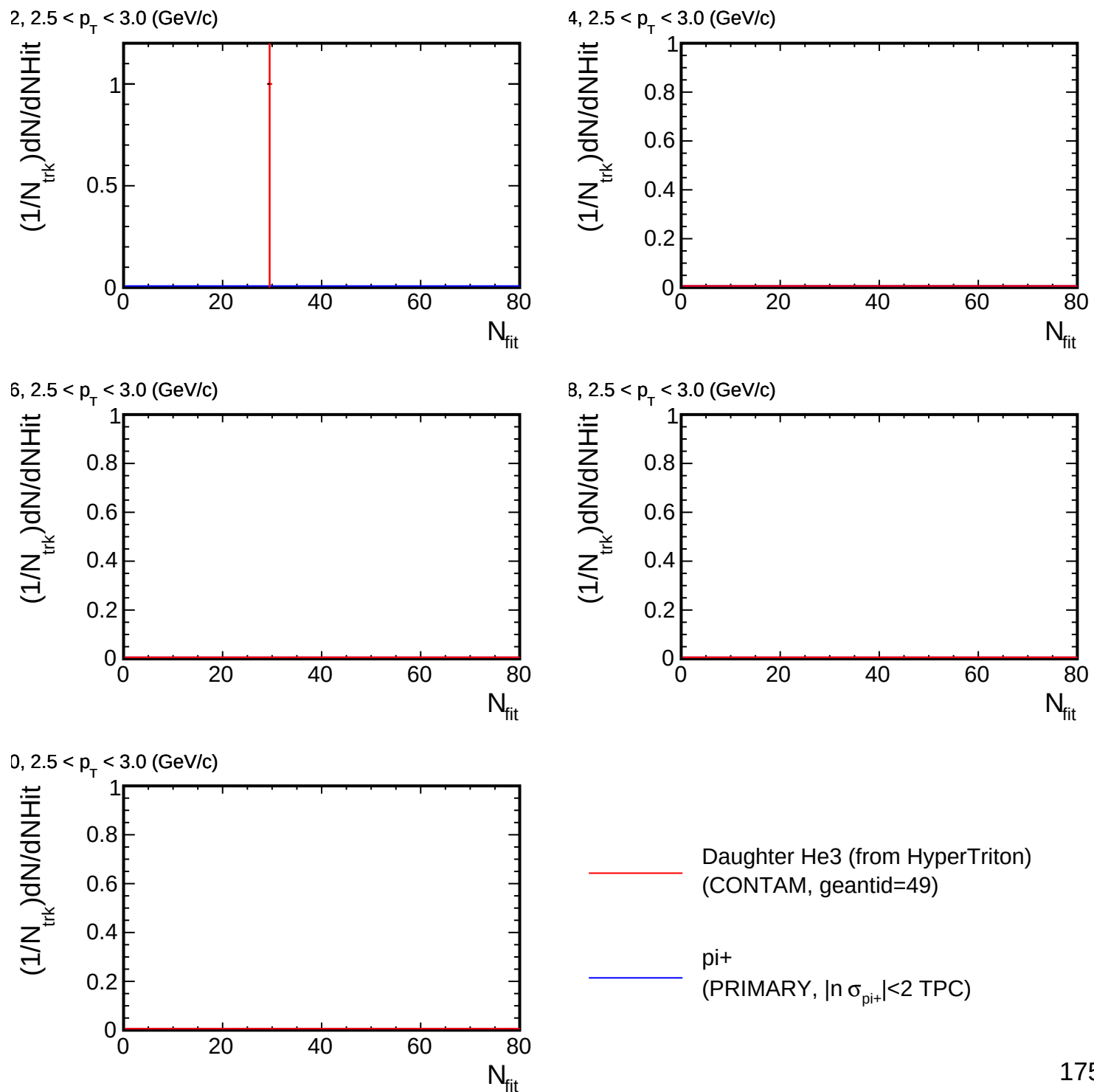
1.0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

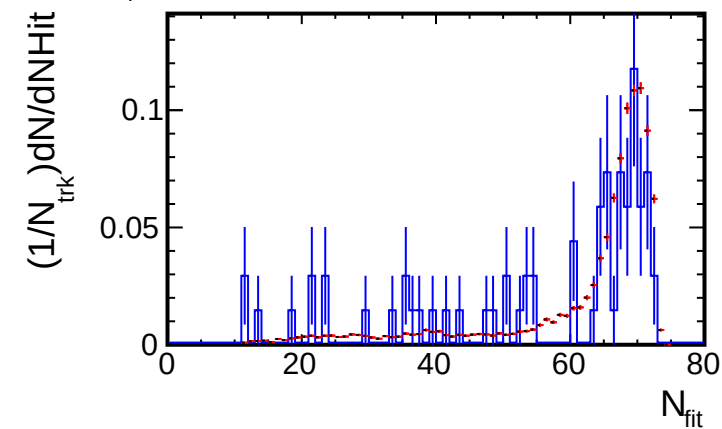
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

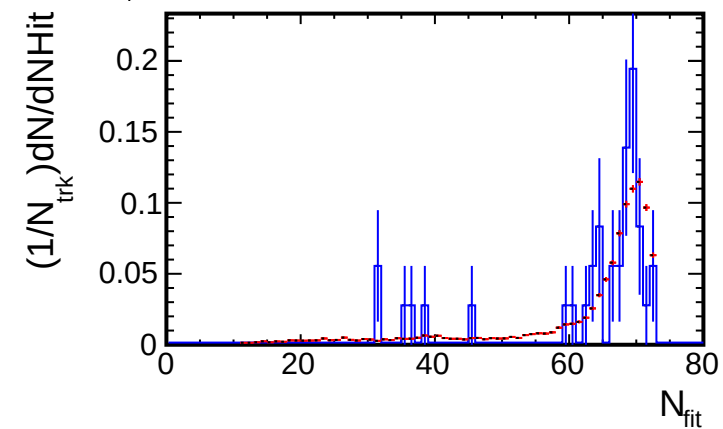


NHit distribution for (p_T , η) slices

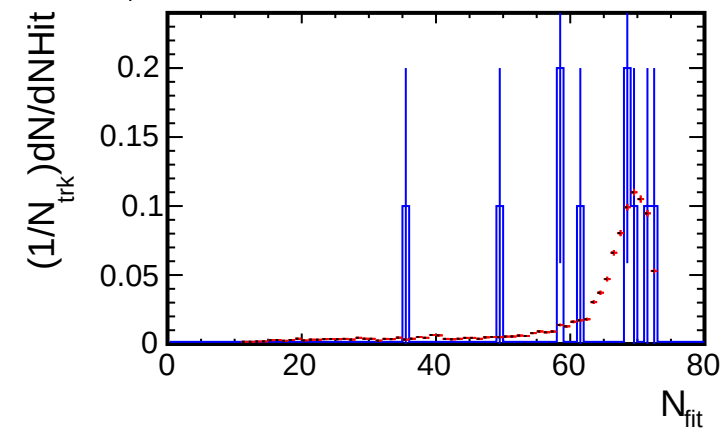
1.8, $3.0 < p_T < 3.5$ (GeV/c)



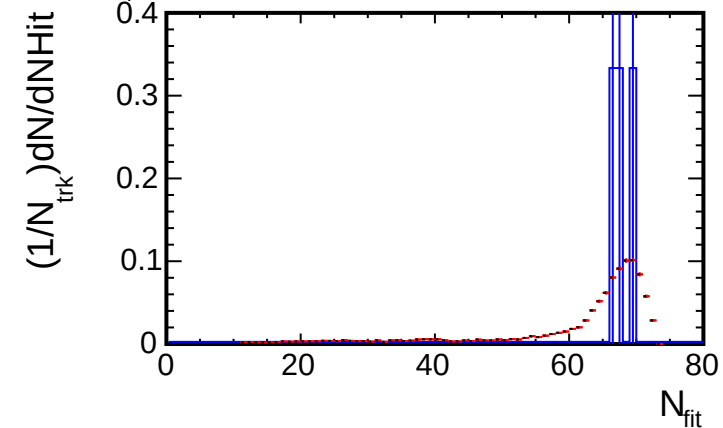
1.6, $3.0 < p_T < 3.5$ (GeV/c)



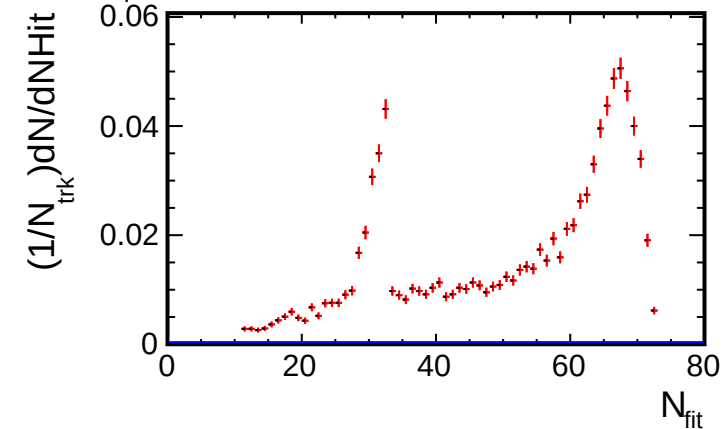
1.4, $3.0 < p_T < 3.5$ (GeV/c)



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



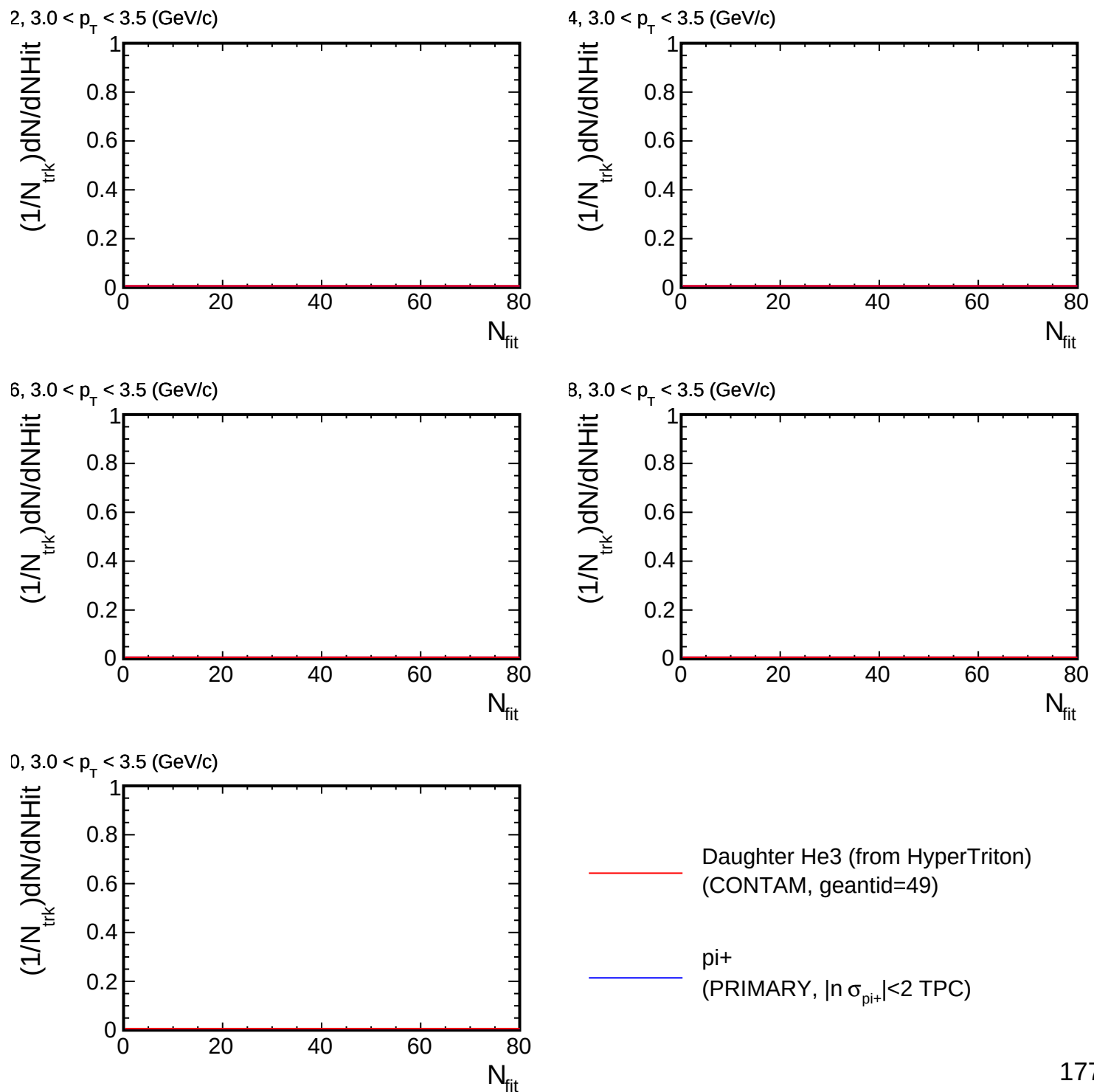
1.0, $3.0 < p_T < 3.5$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

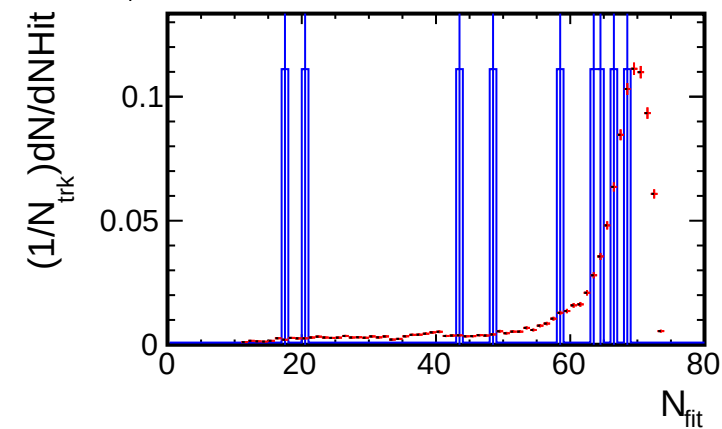
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

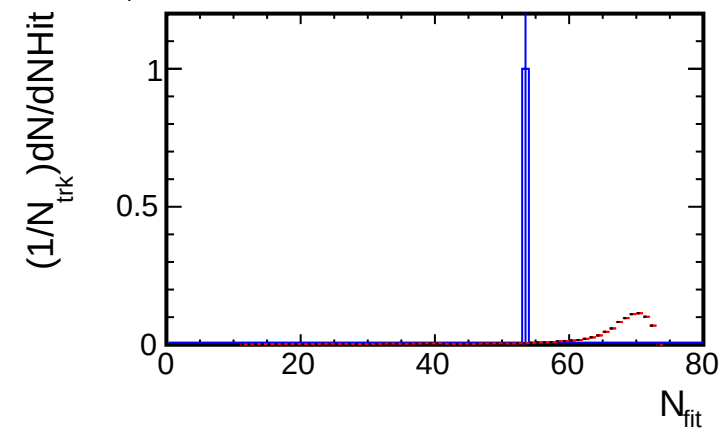


NHit distribution for (p_T , η) slices

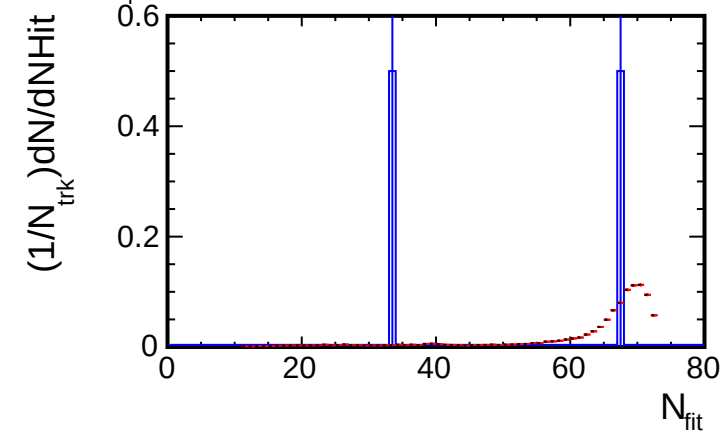
1.8, $3.5 < p_T < 4.0$ (GeV/c)



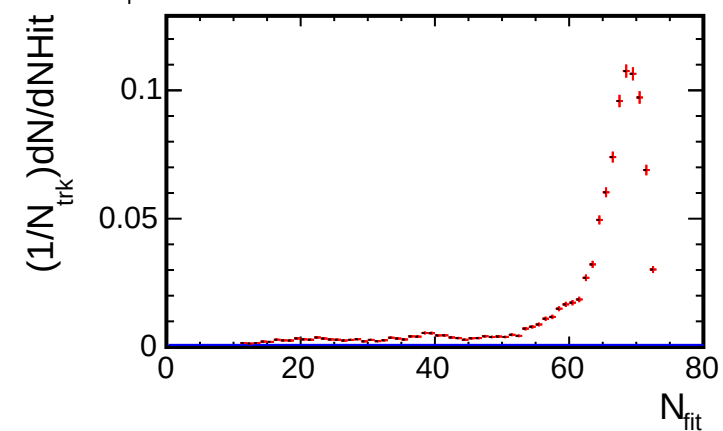
1.6, $3.5 < p_T < 4.0$ (GeV/c)



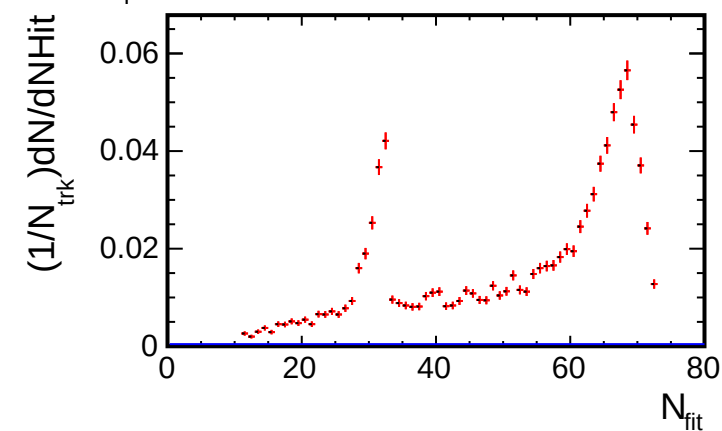
1.4, $3.5 < p_T < 4.0$ (GeV/c)



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



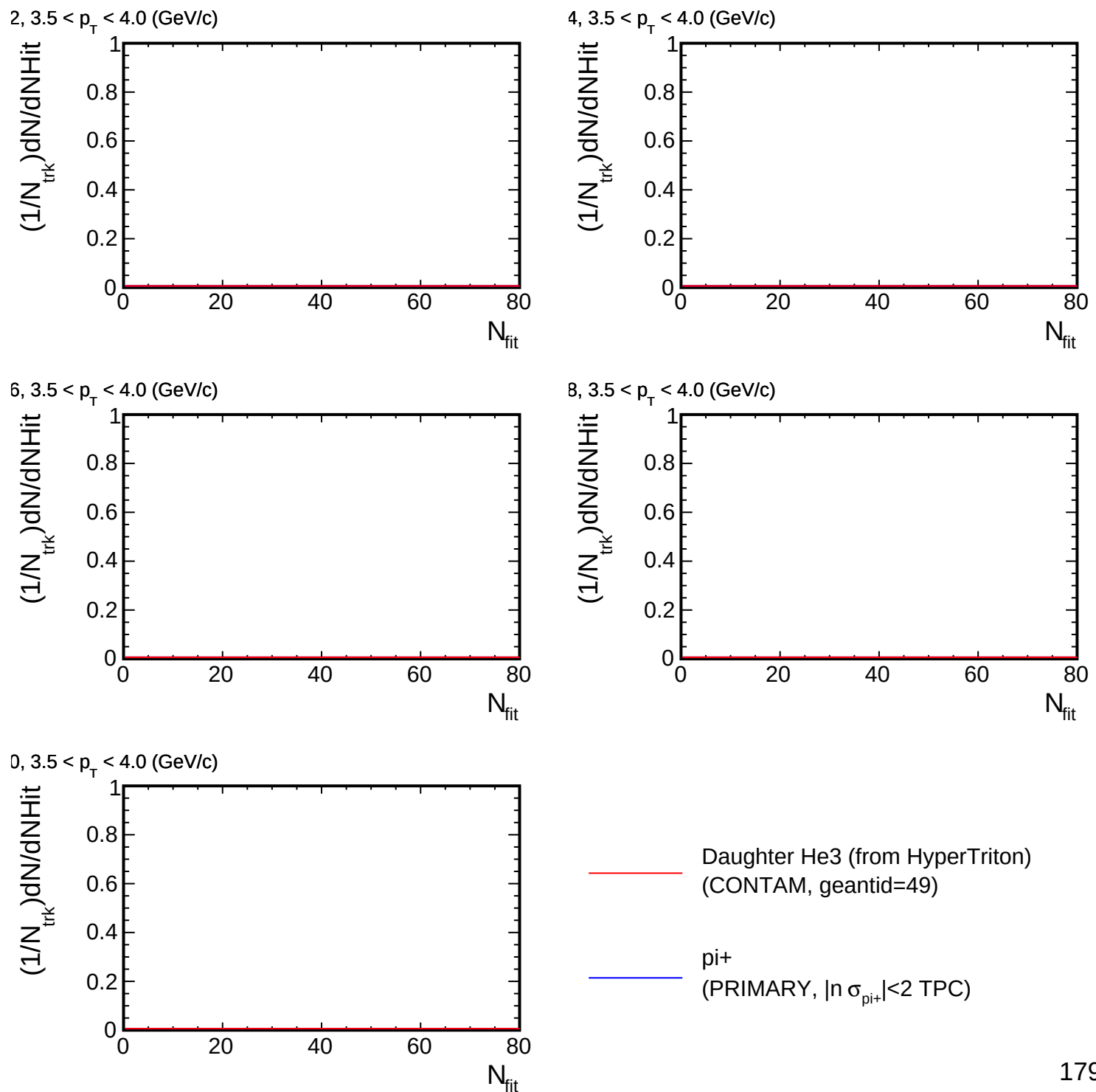
1.0, $3.5 < p_T < 4.0$ (GeV/c)



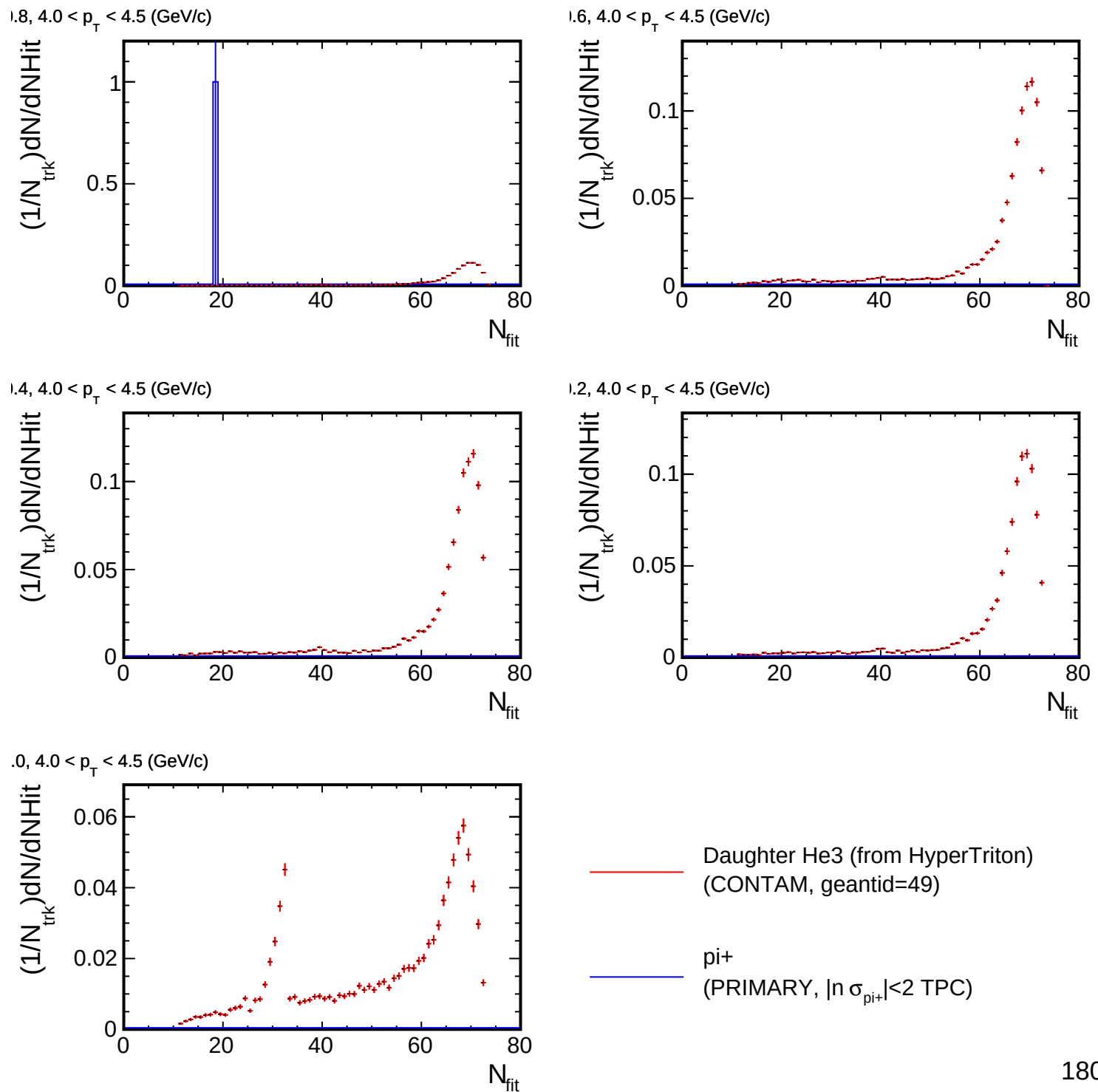
— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

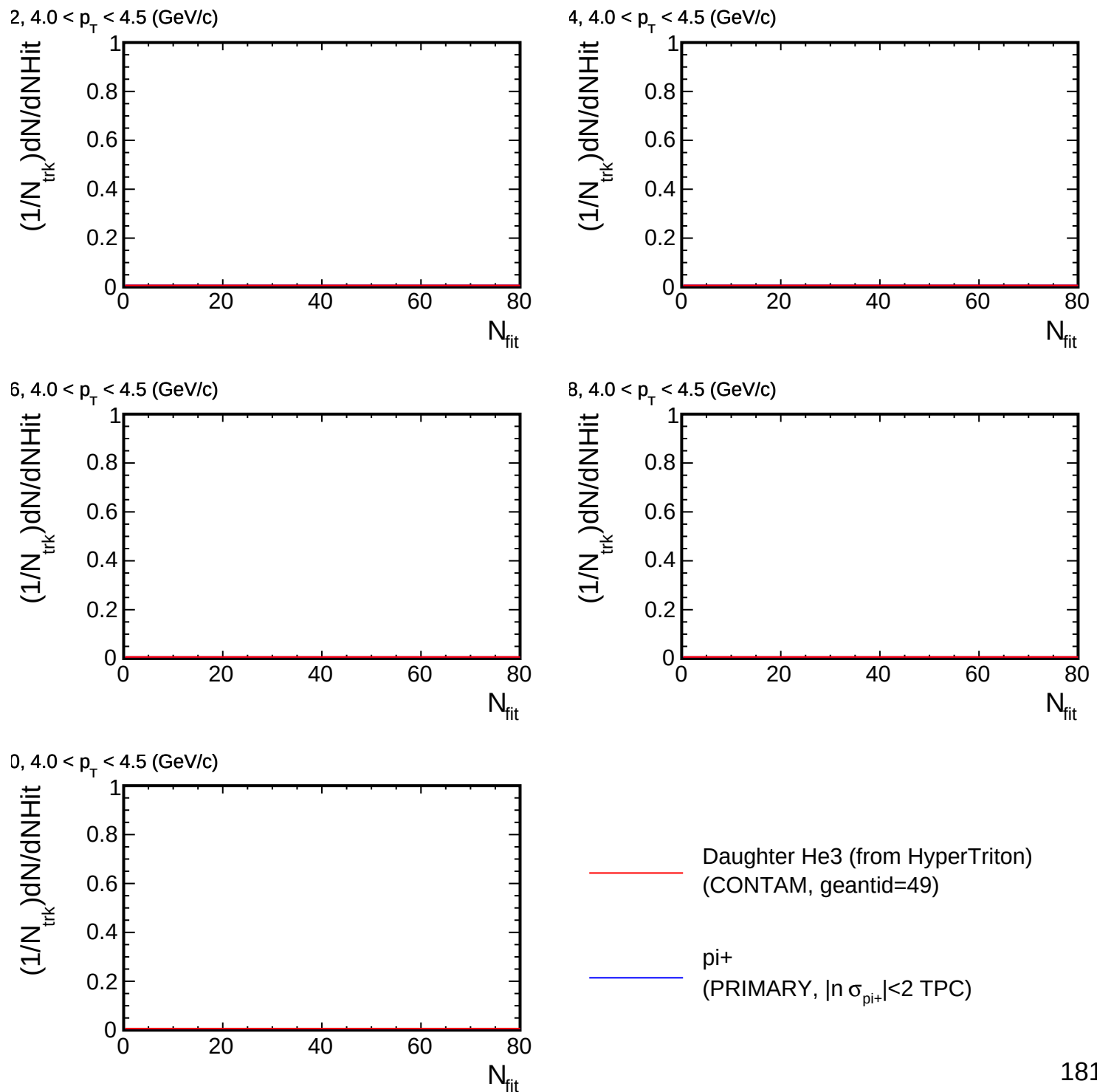
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

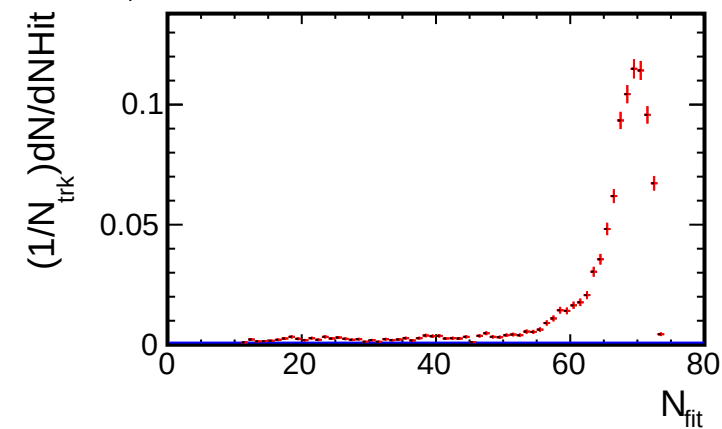


NHit distribution for (p_T , η) slices

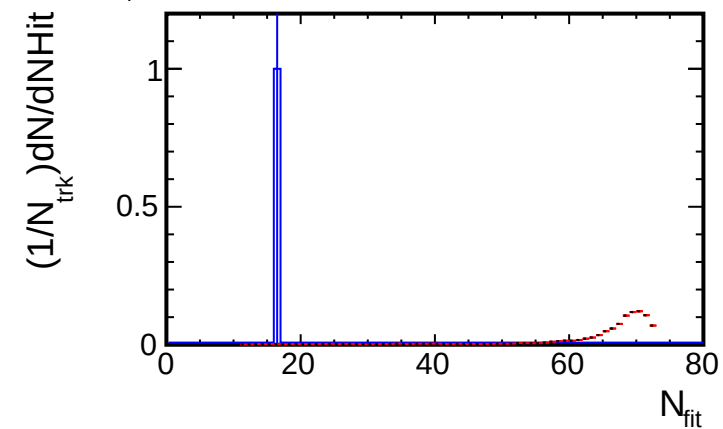


NHit distribution for (p_T , η) slices

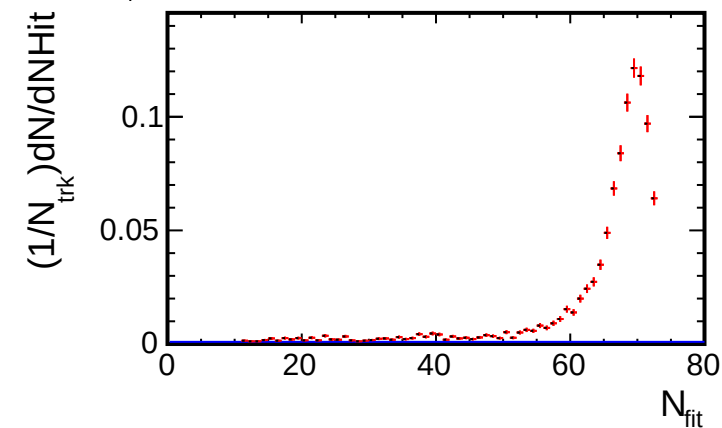
1.8, $4.5 < p_T < 5.0$ (GeV/c)



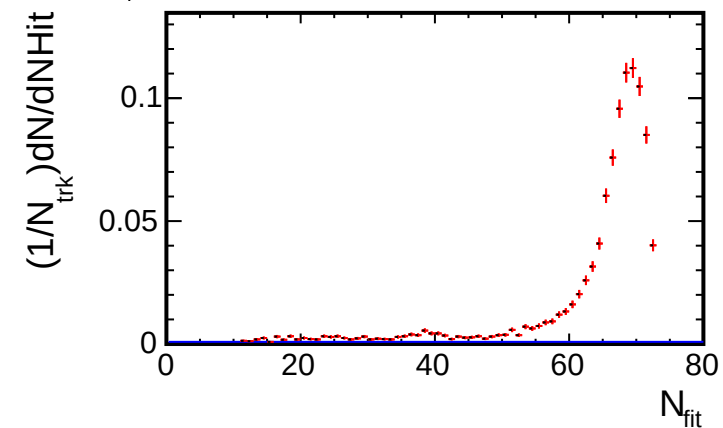
1.6, $4.5 < p_T < 5.0$ (GeV/c)



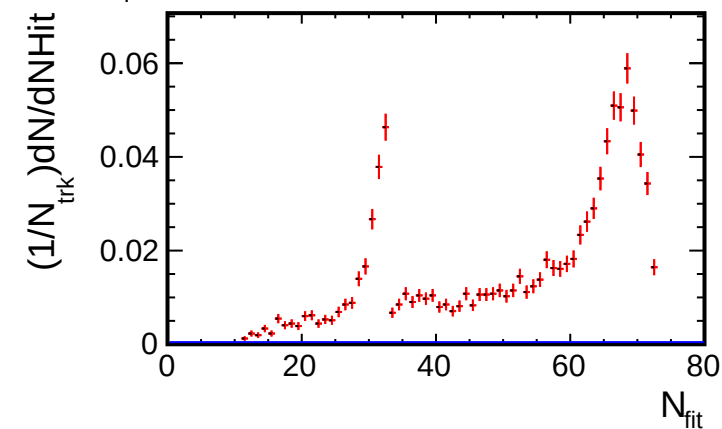
1.4, $4.5 < p_T < 5.0$ (GeV/c)



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



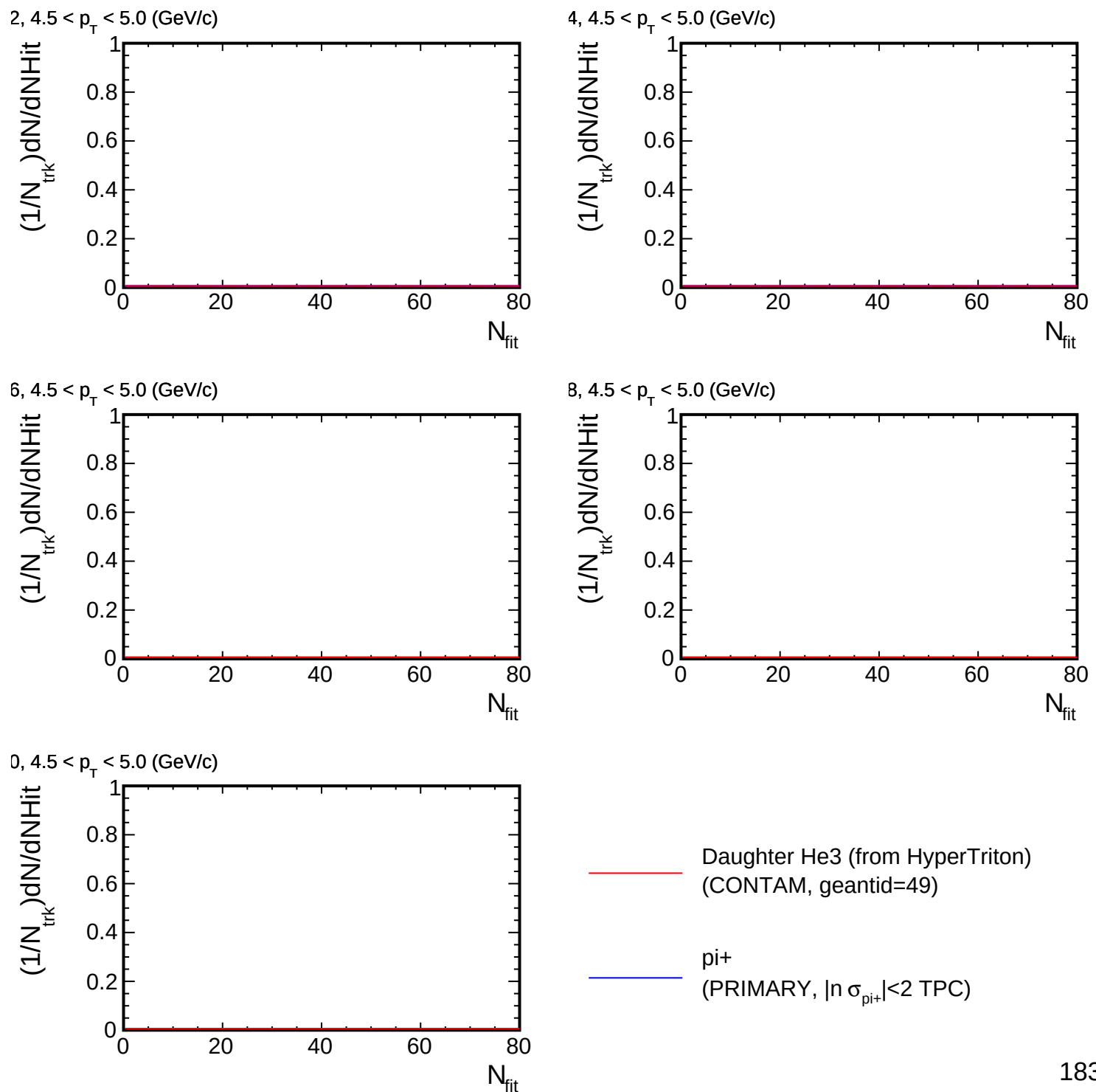
1.0, $4.5 < p_T < 5.0$ (GeV/c)



— Daughter He3 (from HyperTriton)
(CONTAM, geantid=49)

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

NHit distribution for (p_T , η) slices



End of QA