

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 = 730000

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

*** Track selections

$0.0 < p_T < 5.0$ GeV/c

$|\eta| < 10.00$

$|y| < 2.20$

nHitsFit > 10

nHitsFit/nHitsPoss > 0.51

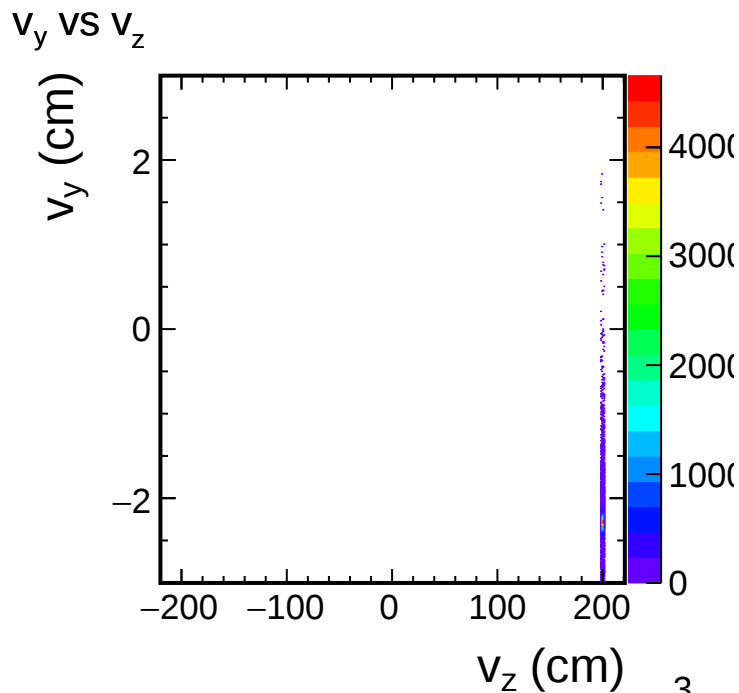
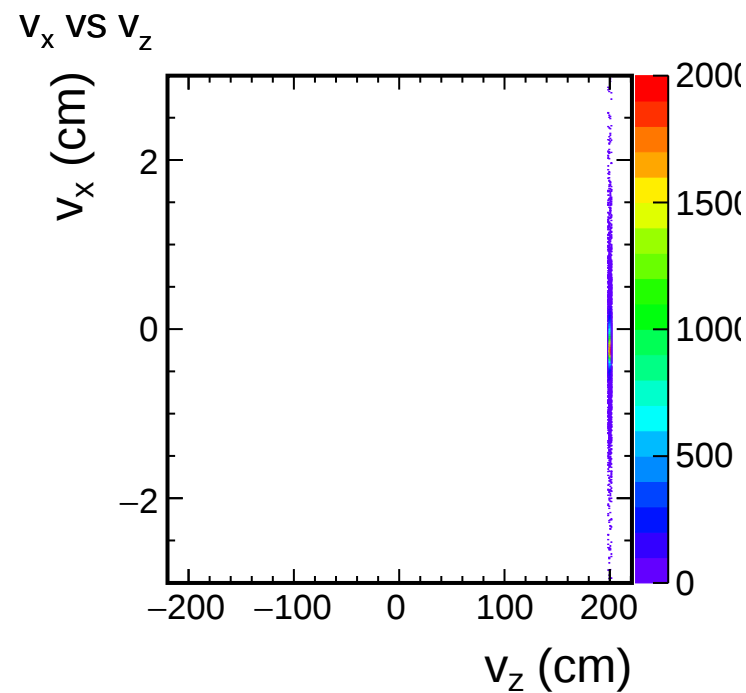
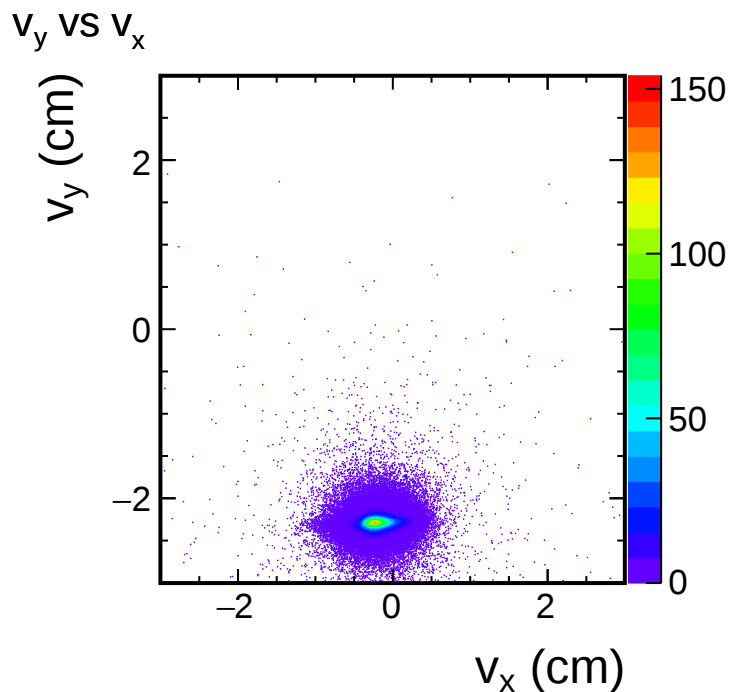
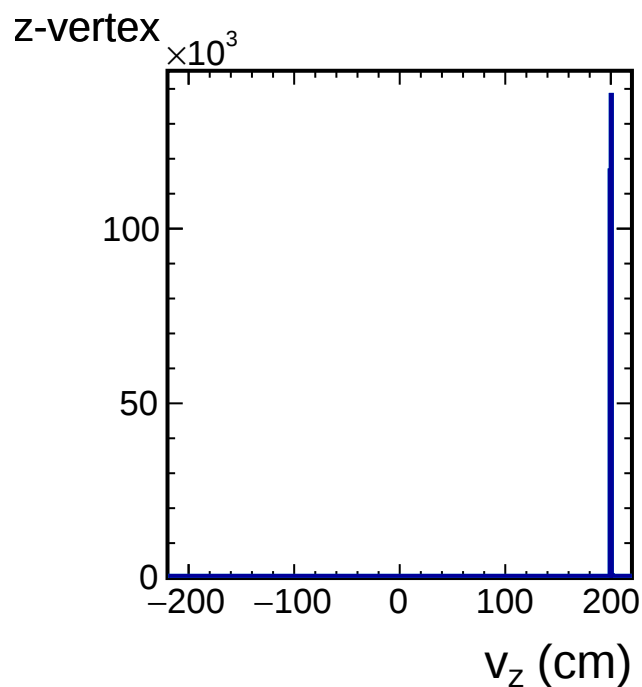
global Dca < 3.0 cm

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

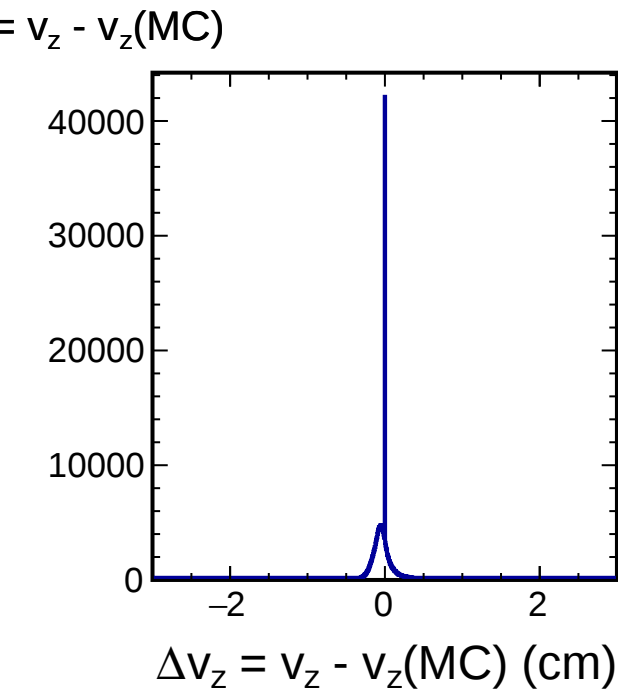
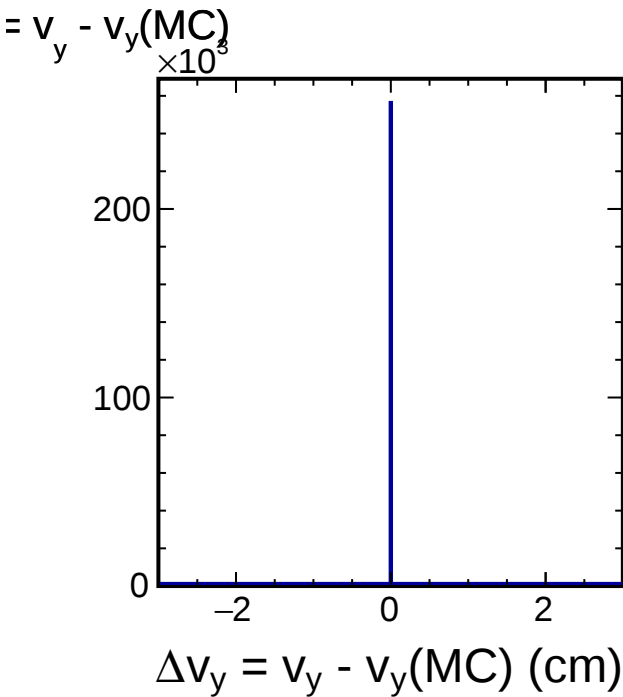
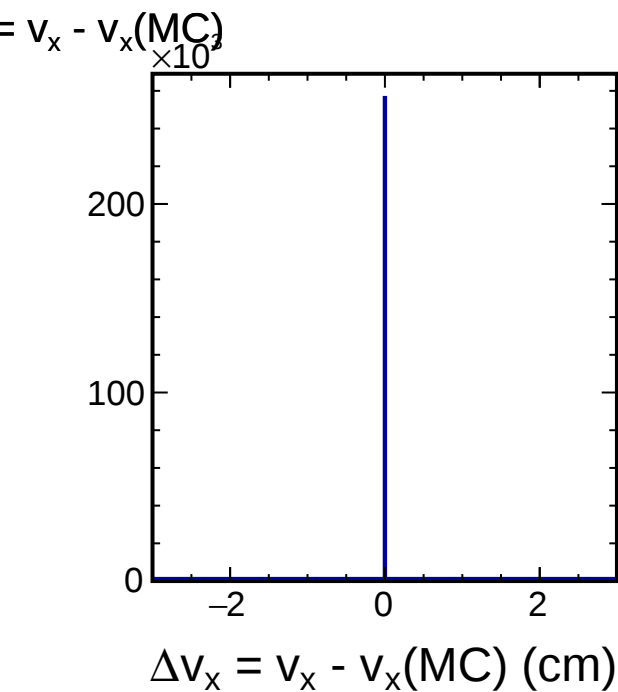
NOTE1: Rapidity cut for real data has to be made manually in doEmbeddingQAMaker.C

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

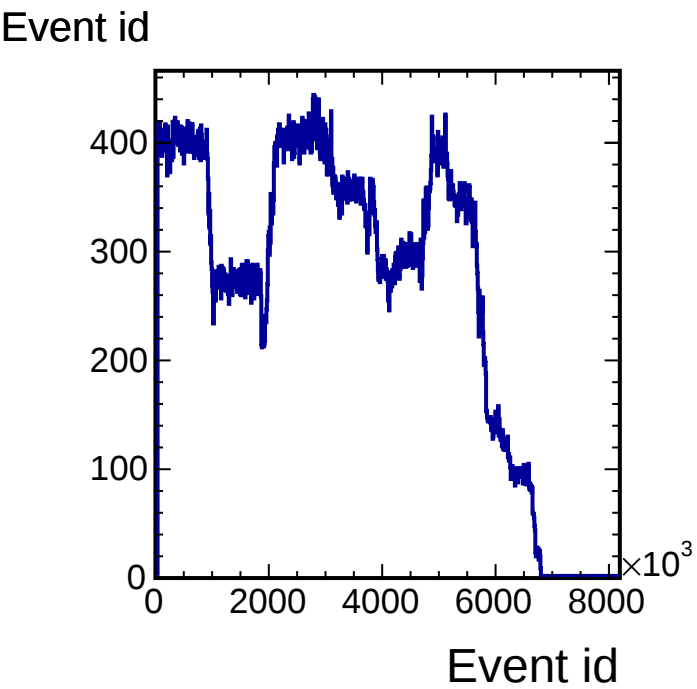
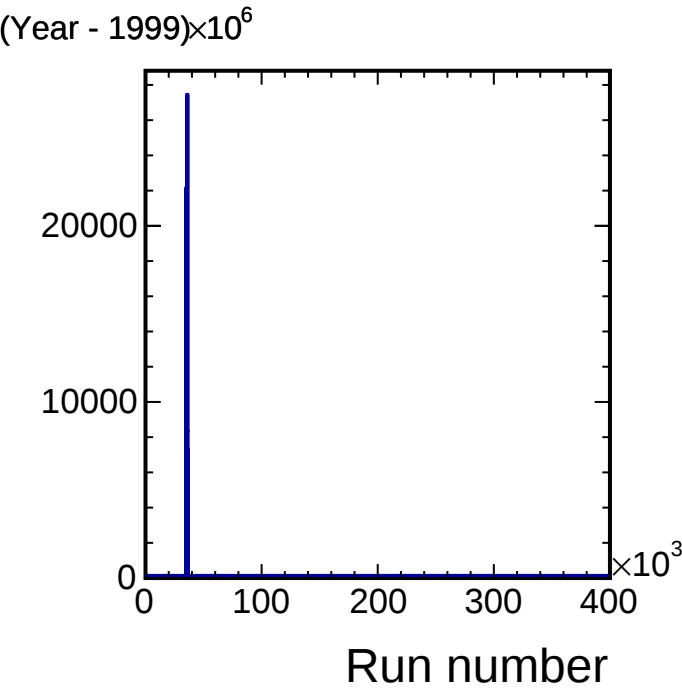
Event vertices, offline cuts: $-220.0 < v_z < 220.0$ cm



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

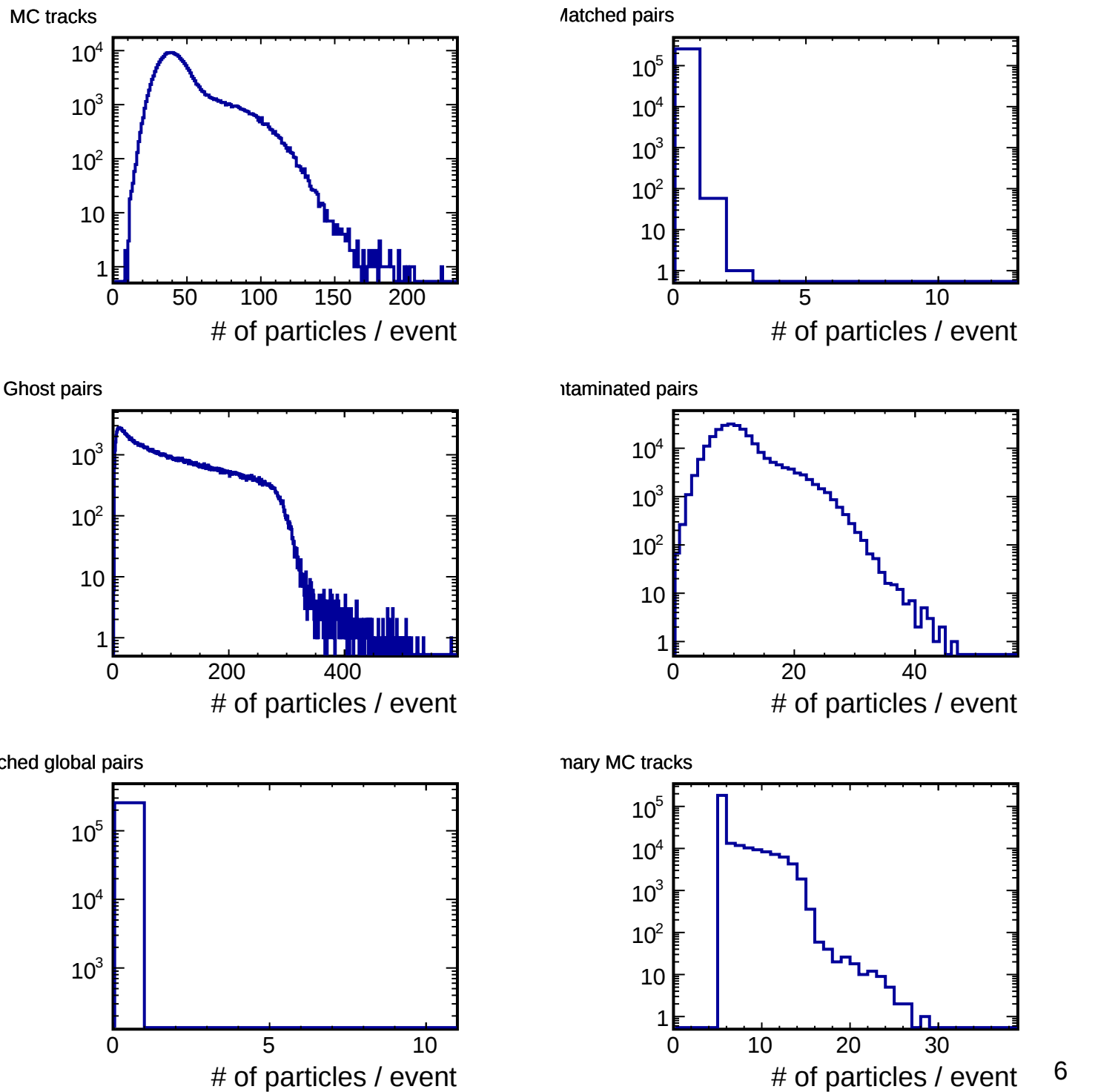


Run and event id

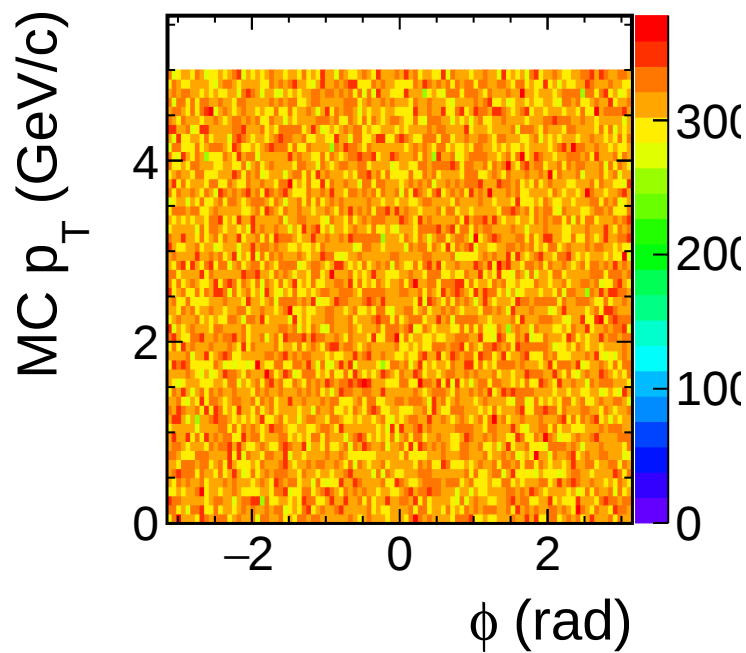
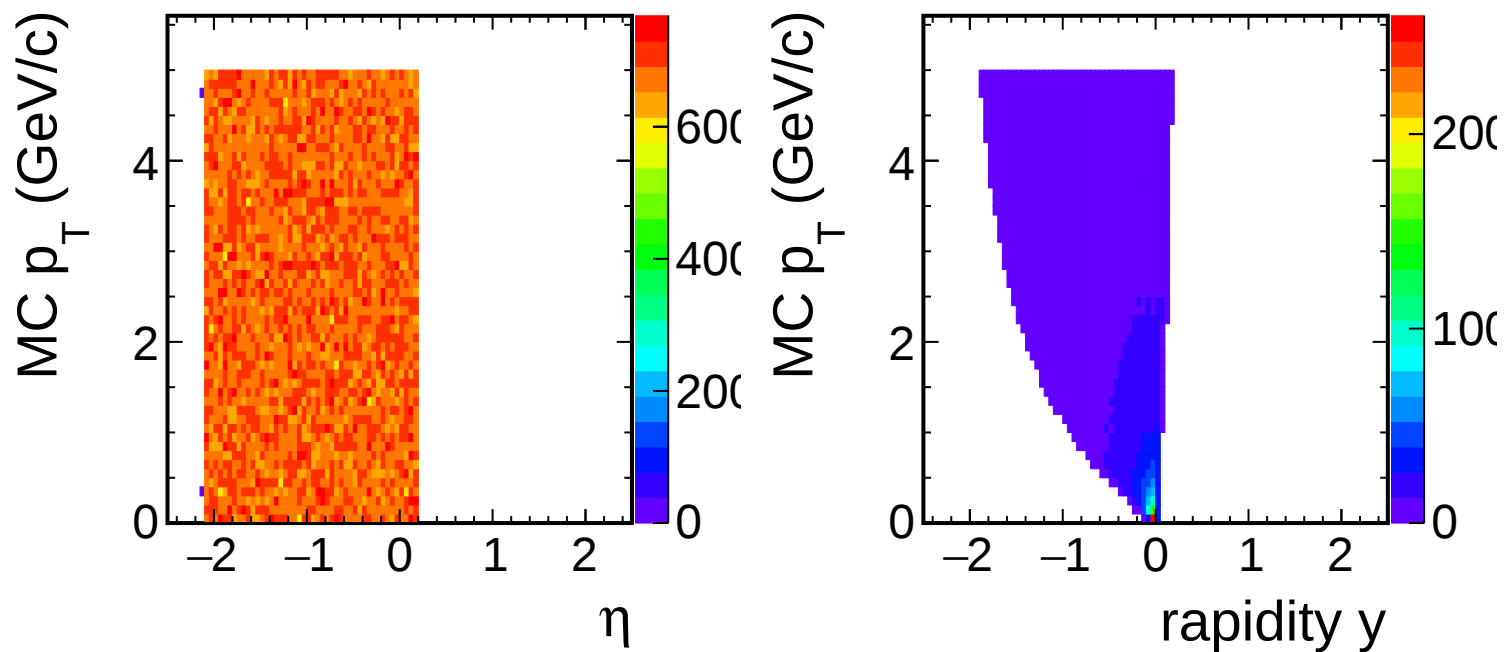


Run id		statistics	Run id		statistics	Run id		statistics	Run id		statistics
21035003		8815 events	21035012		1459 events	21035027		4313 events	21035036		18074 events
21035004		7278 events	21035013		11080 events	21035028		10937 events	21036002		2750 events
21035005		19500 events	21035015		1179 events	21035031		4487 events	21036003		5510 events
21035006		15033 events	21035016		22110 events	21035032		5857 events	21036006		4443 events
21035007		9660 events	21035017		10896 events	21035033		13983 events	21036007		5796 events
21035009		4454 events	21035025		5975 events				21036008		8396 events
			21035026		19549 events				21036009		27434 events
									21036013		7282 events

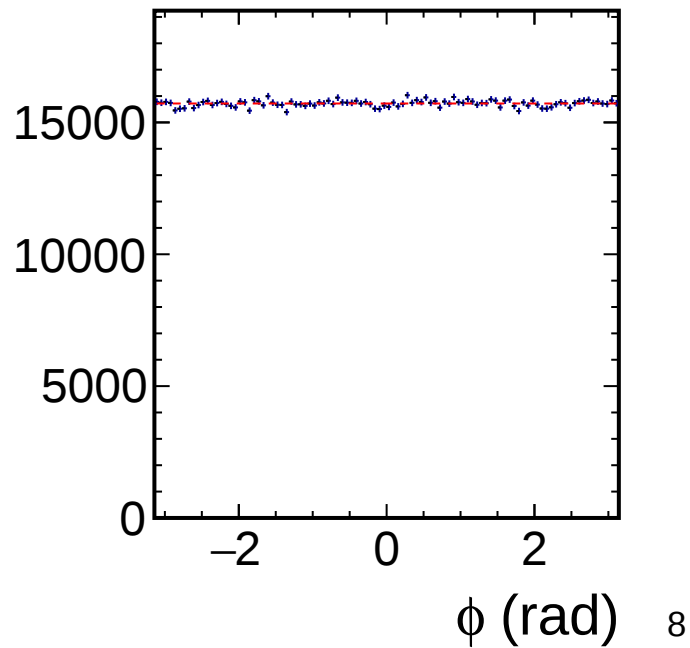
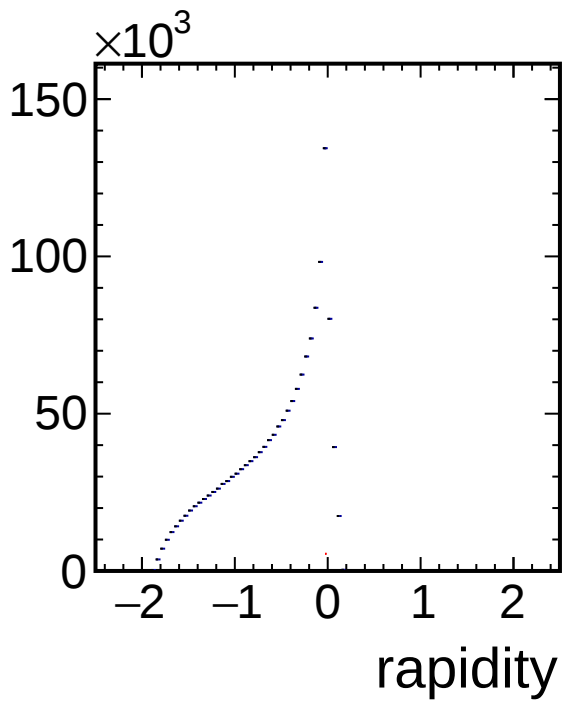
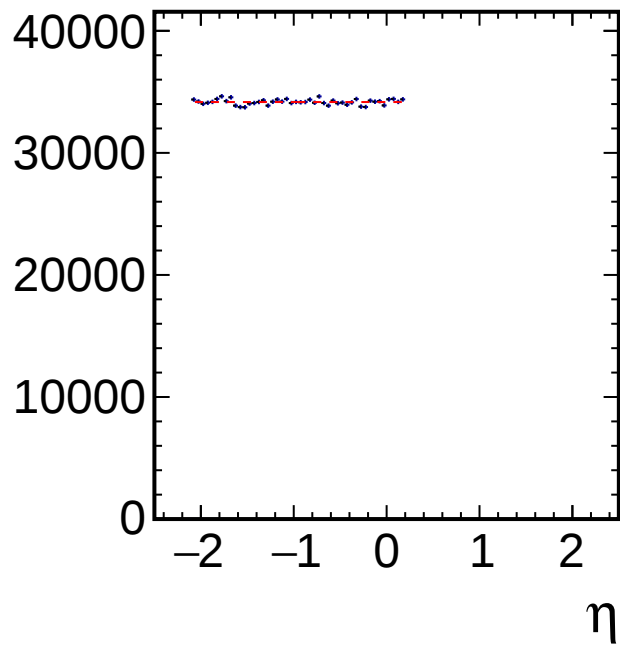
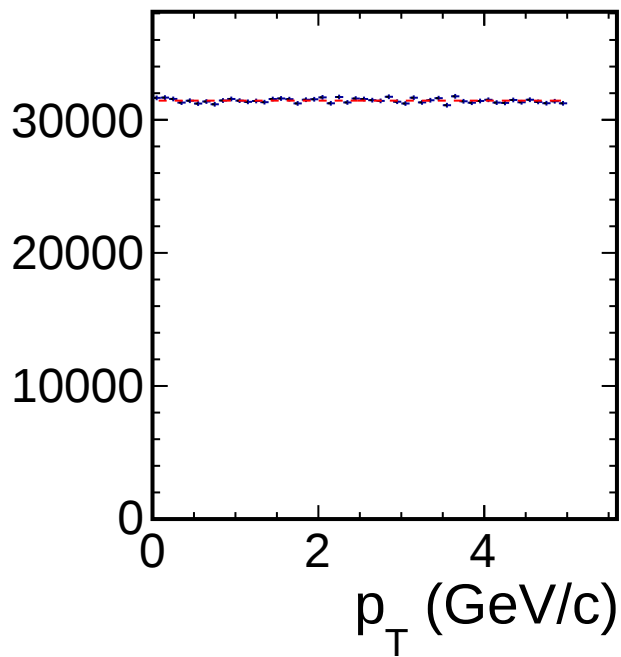
Multiplicity distribution



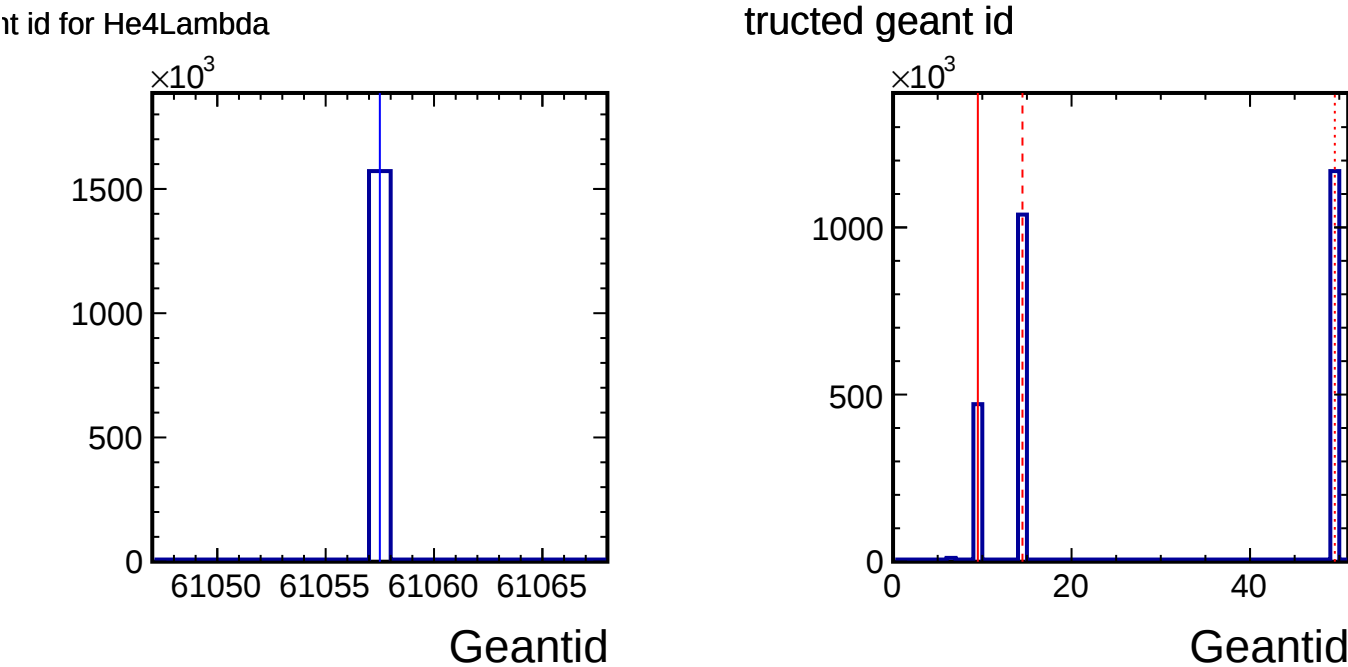
MC track QA (2D)



MC track QA (1D)



Geant id

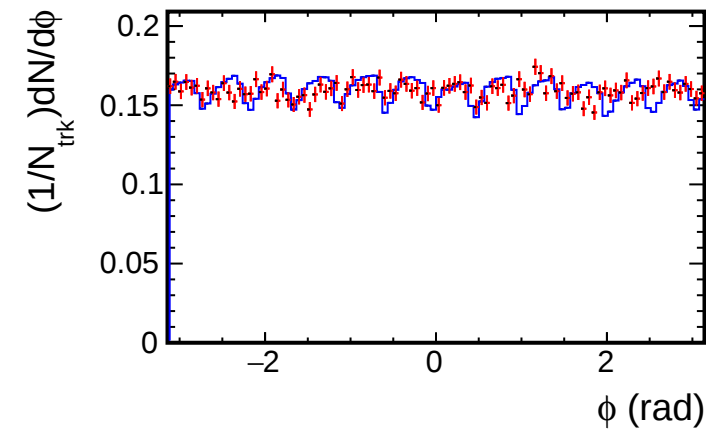


Particle informations

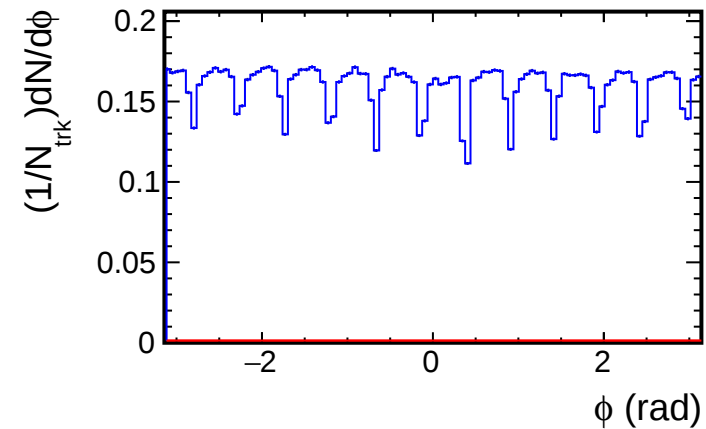
- Parent He4Lambda (MC, geantid=61057)
- Daughter pi- (from He4Lambda) (CONTAM, geantid=9)
- - - Daughter proton (from He4Lambda) (CONTAM, geantid=14)
- ... Daughter He3 (from He4Lambda) (CONTAM, geantid=49)

Projection of ϕ for each p_T bin

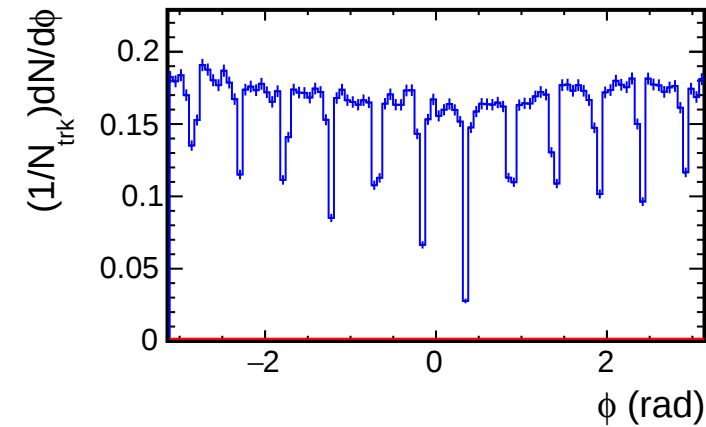
$p_T < 0.5$ (GeV/c)



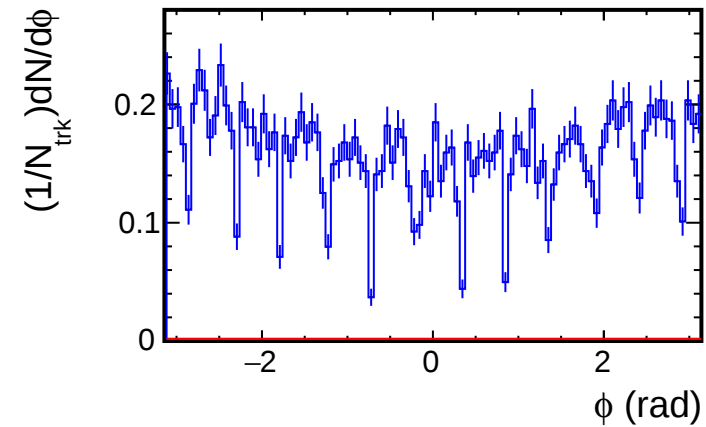
$p_T < 1.0$ (GeV/c)



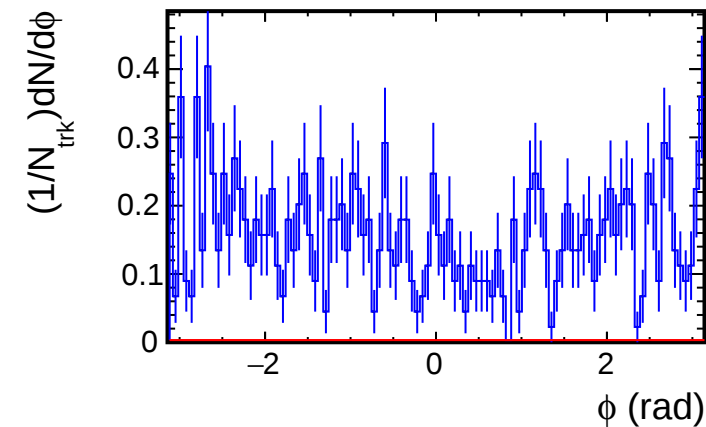
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

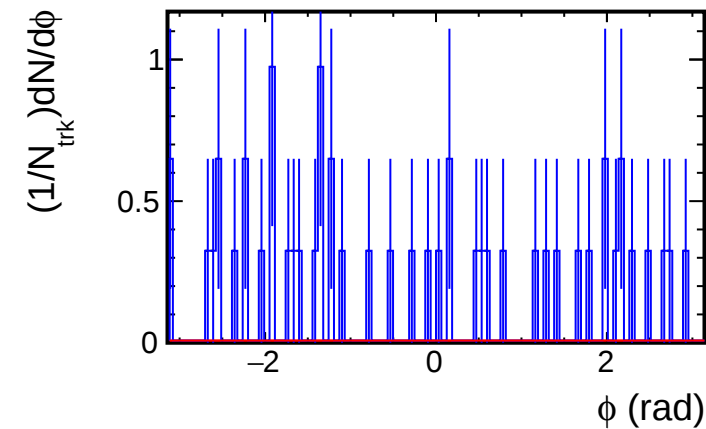


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

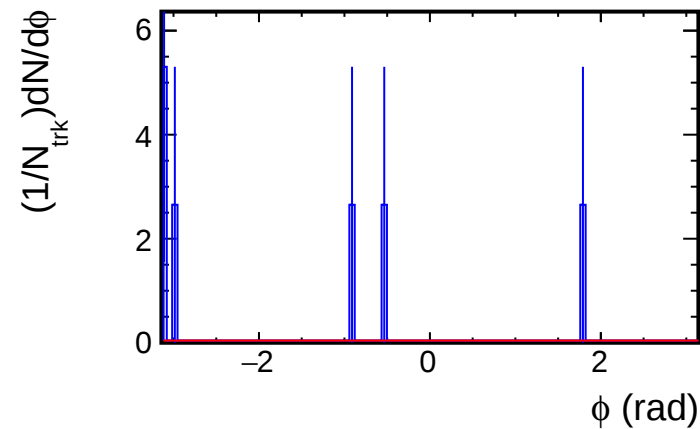
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

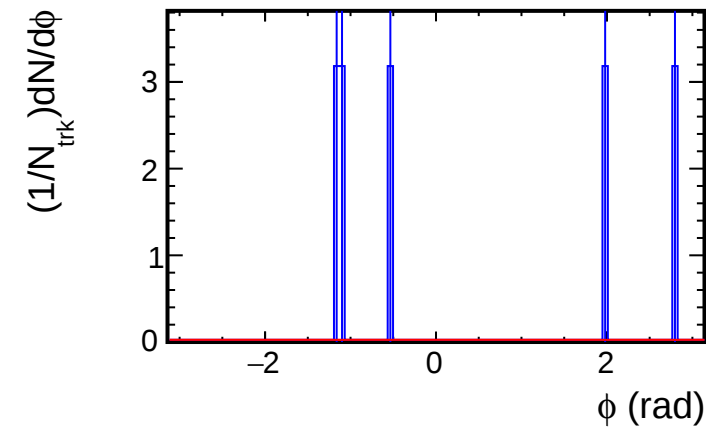
$p_T < 3.0$ (GeV/c)



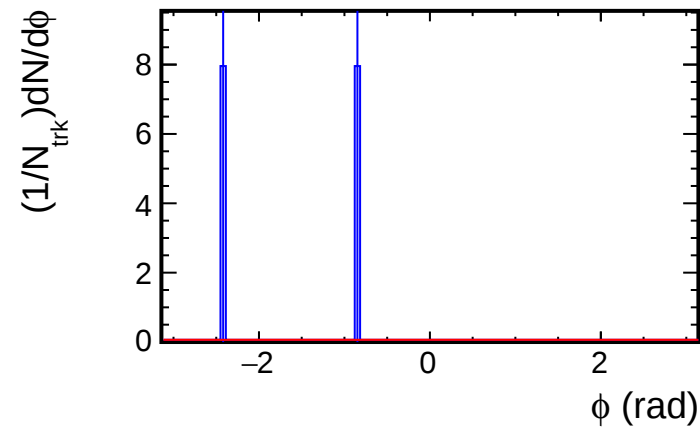
$p_T < 3.5$ (GeV/c)



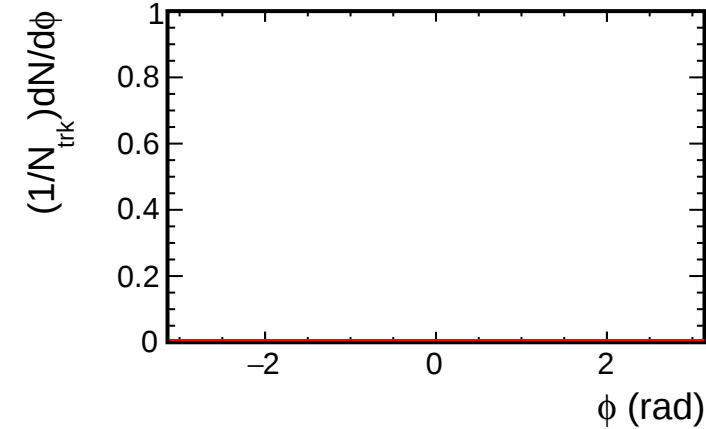
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

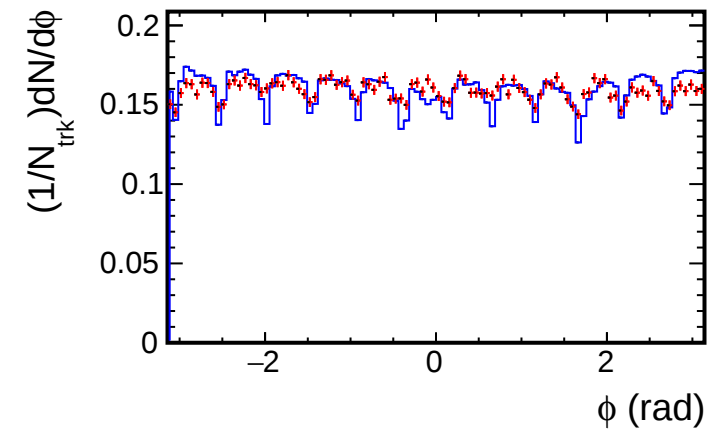


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

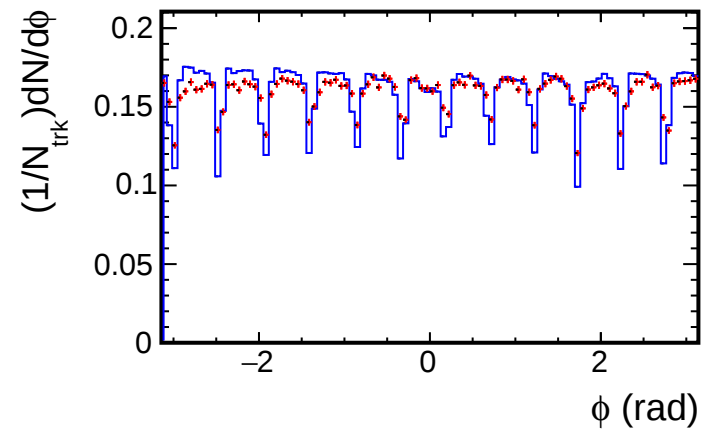
— pi-
(PRIMARY, $|\ln \sigma_{\text{pi-}}| < 2$ TPC)

Projection of ϕ for each p_T bin

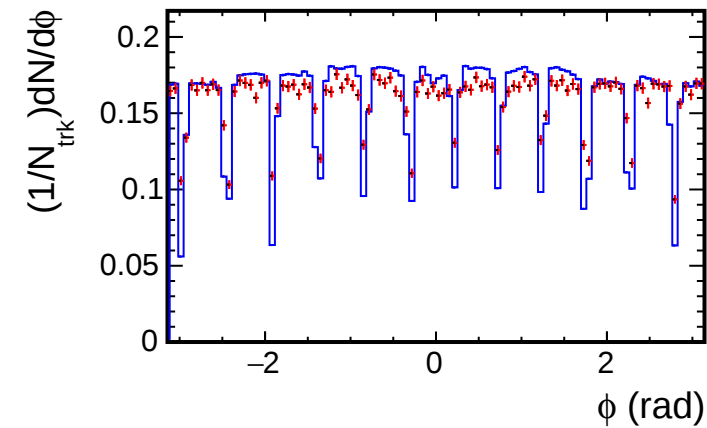
$p_T < 0.5$ (GeV/c)



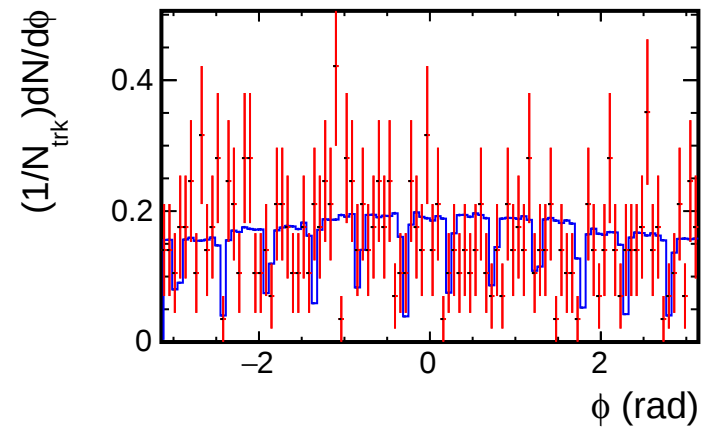
$p_T < 1.0$ (GeV/c)



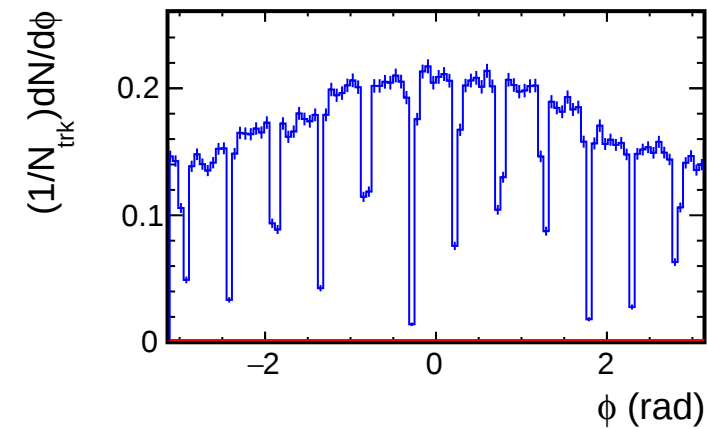
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

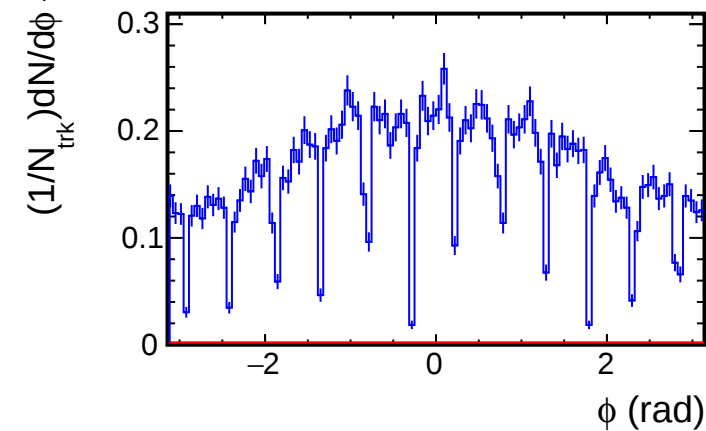


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

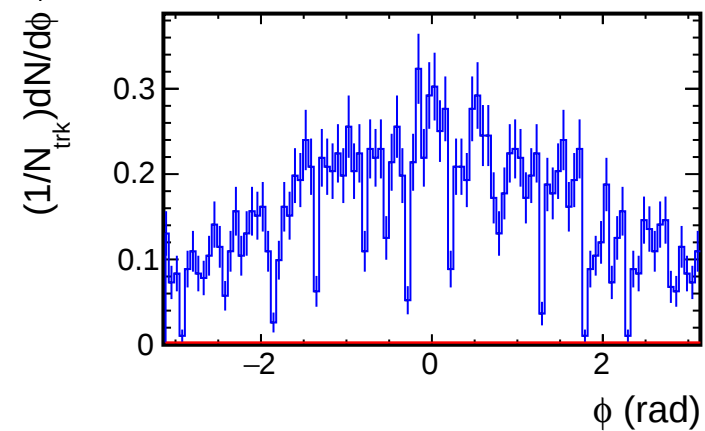
— proton
(PRIMARY, $|n_{\sigma_{\text{proton}}}| < 2$ TPC)

Projection of ϕ for each p_T bin

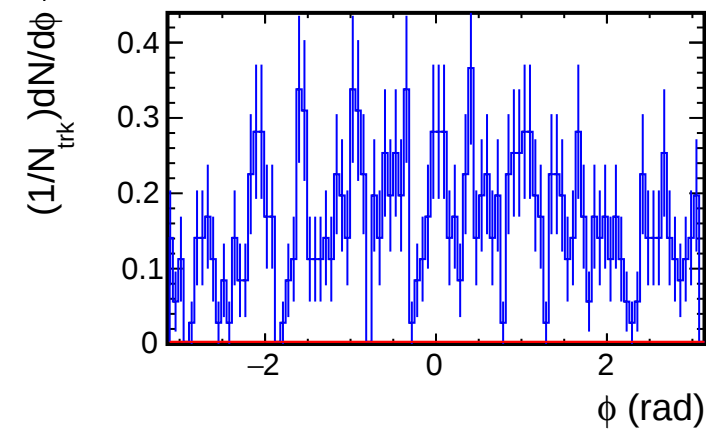
$p_T < 3.0$ (GeV/c)



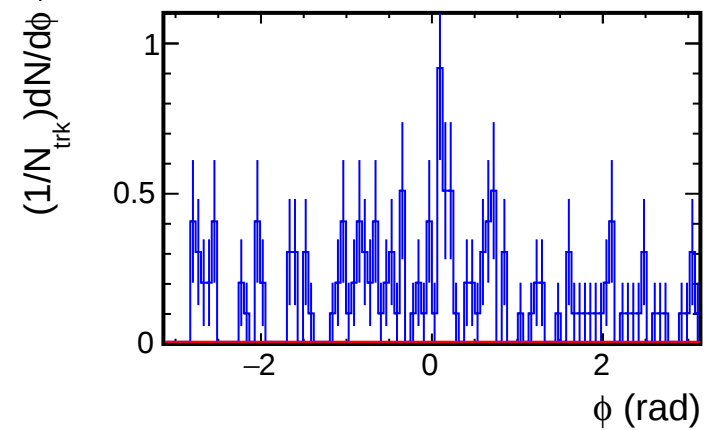
$p_T < 3.5$ (GeV/c)



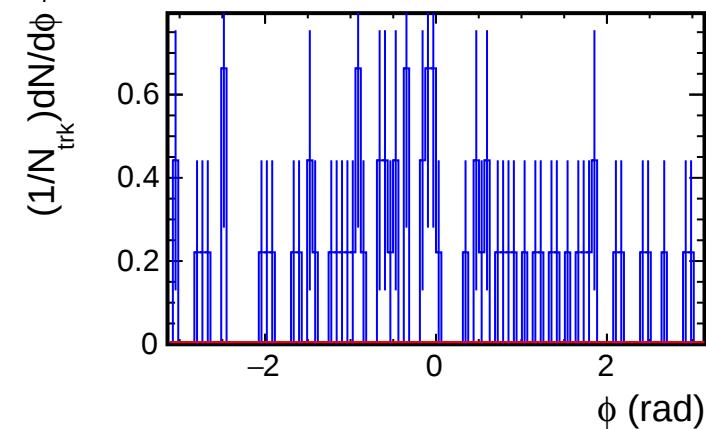
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

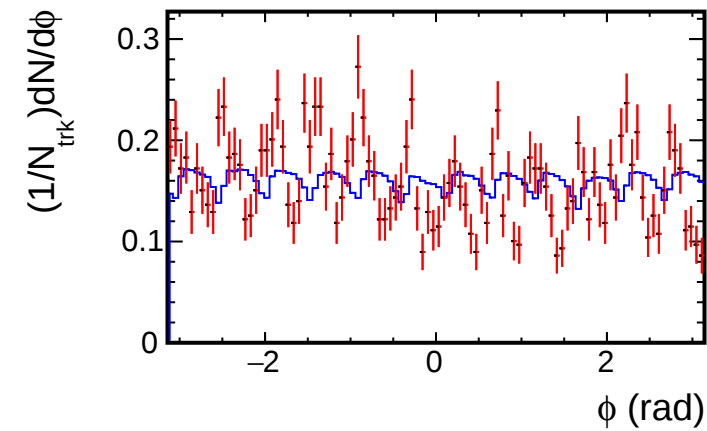


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

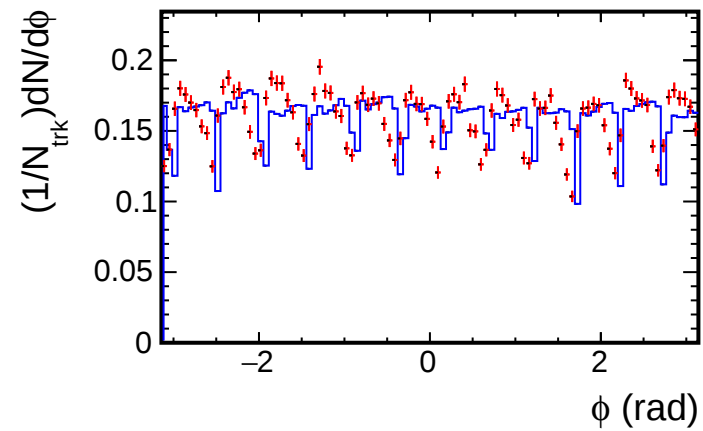
— proton
(PRIMARY, $|n_{\sigma_{\text{proton}}}| < 2$ TPC)

Projection of ϕ for each p_T bin

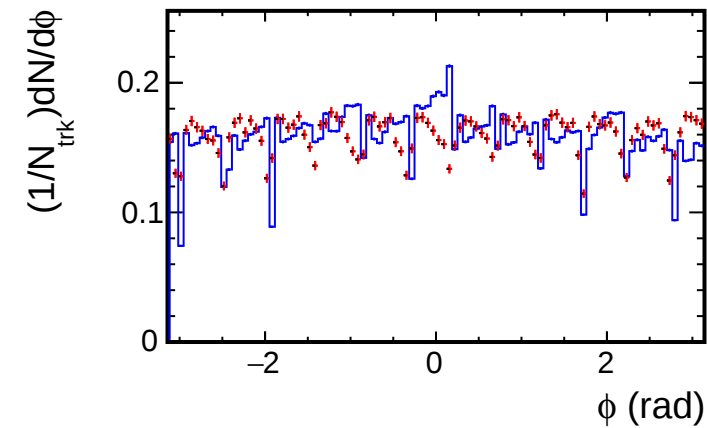
$p_T < 0.5$ (GeV/c)



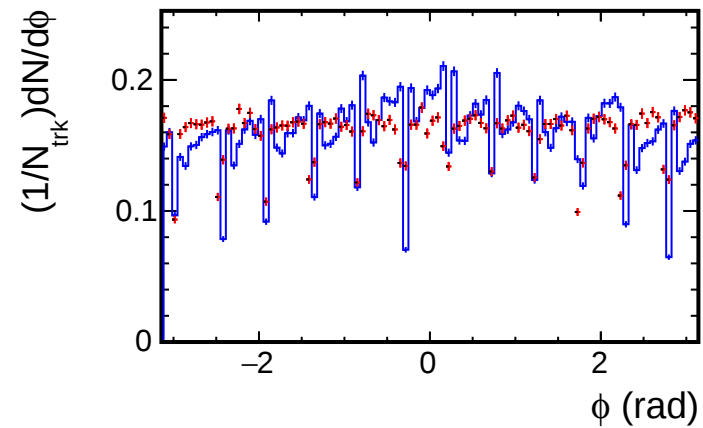
$p_T < 1.0$ (GeV/c)



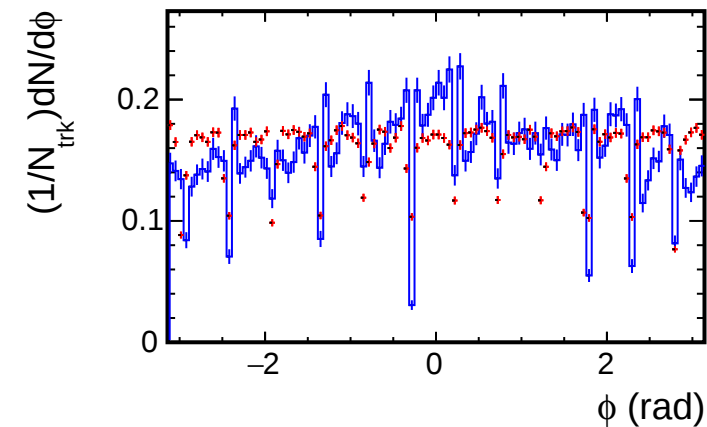
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

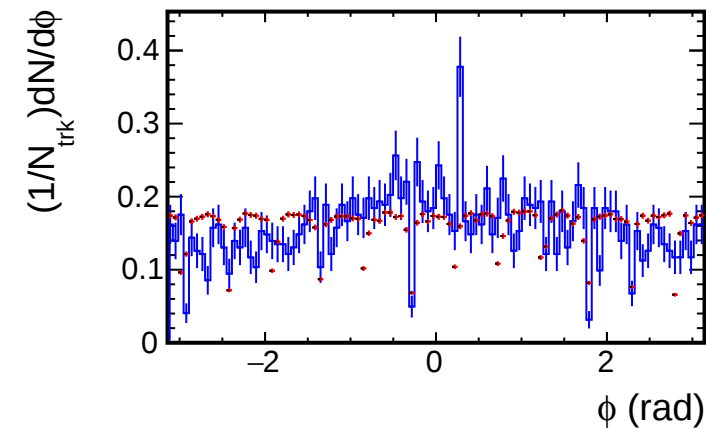


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

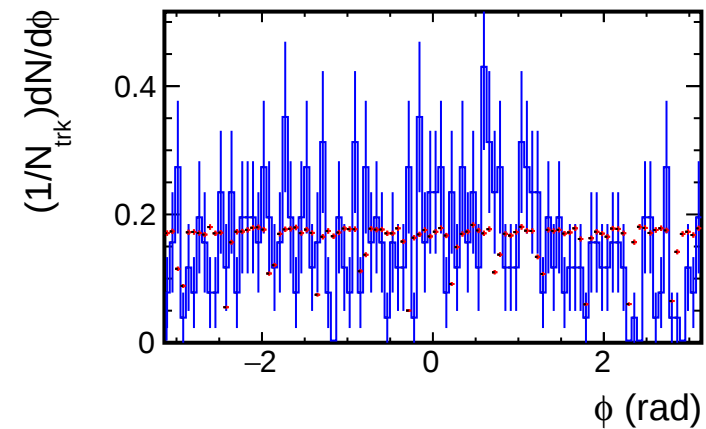
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

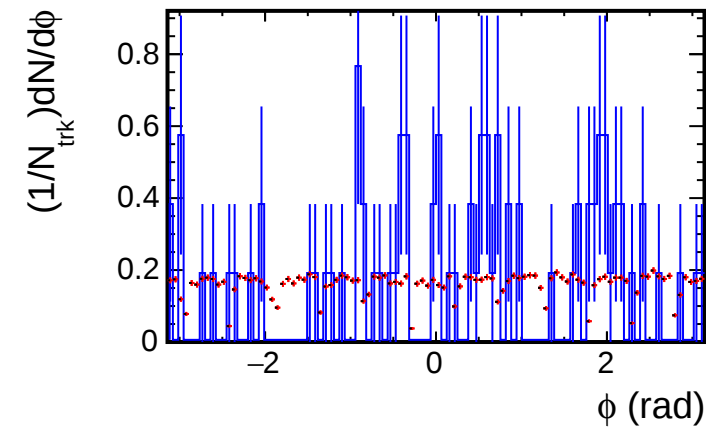
$p_T < 3.0$ (GeV/c)



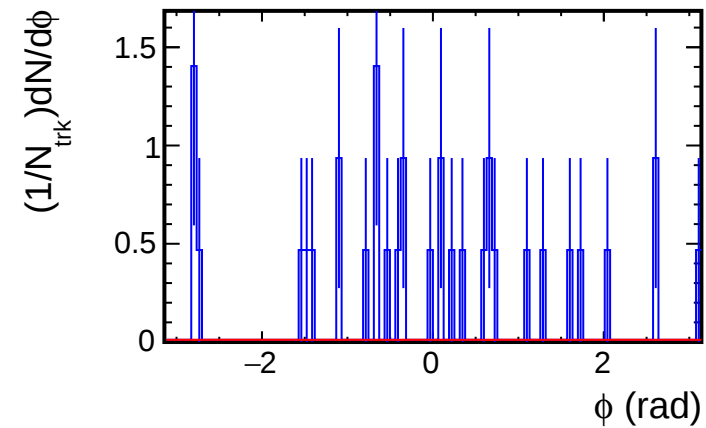
$p_T < 3.5$ (GeV/c)



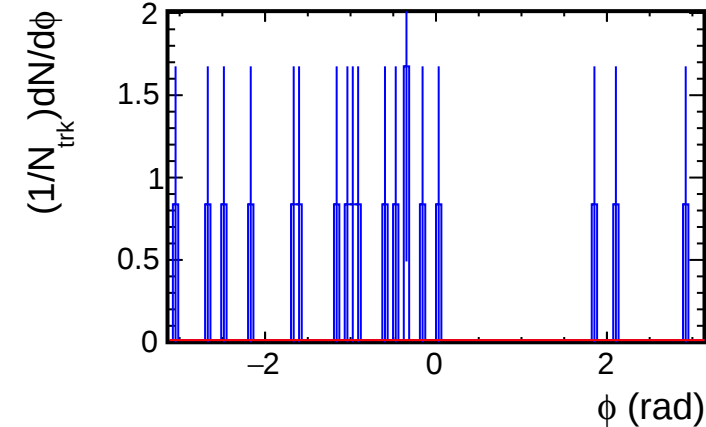
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

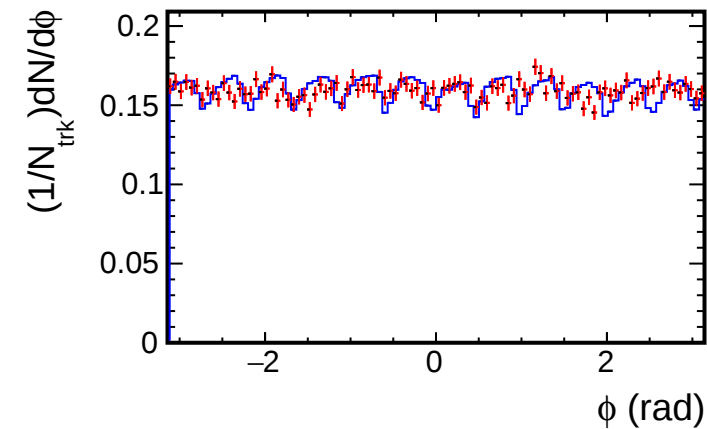


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

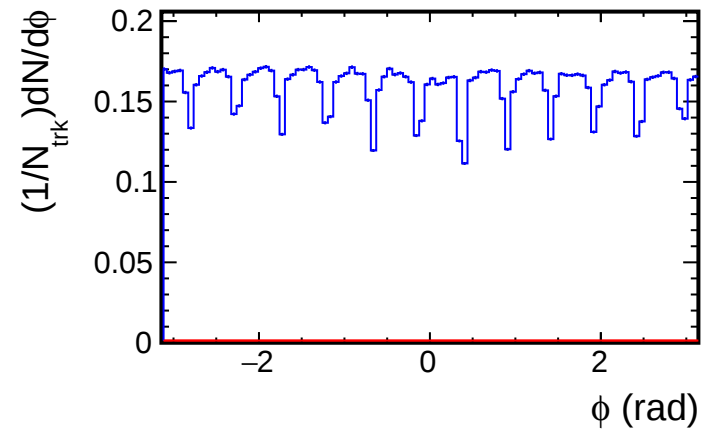
— π^+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

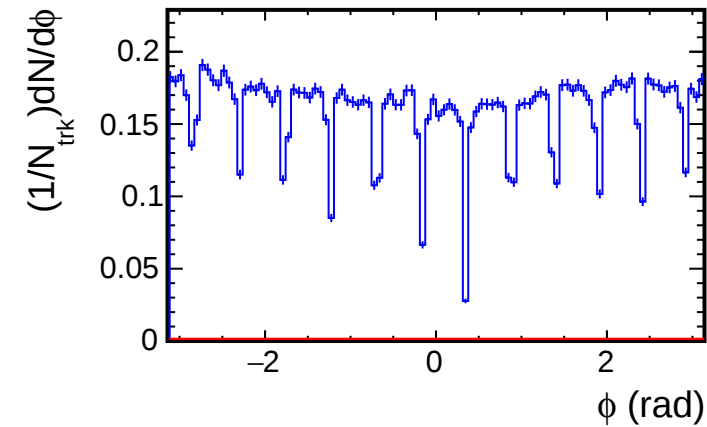
$p_T < 0.5$ (GeV/c)



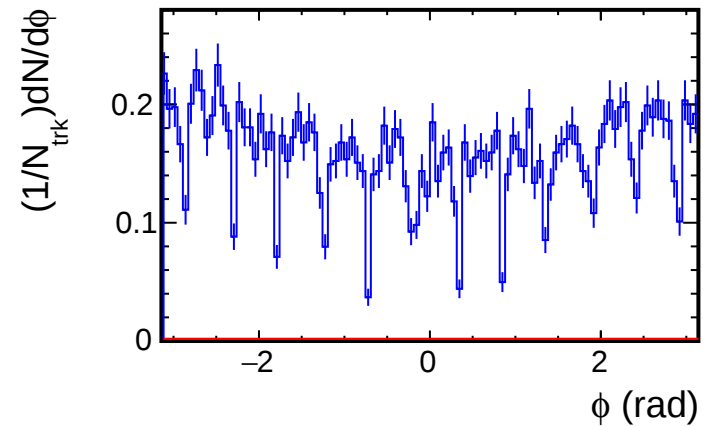
$p_T < 1.0$ (GeV/c)



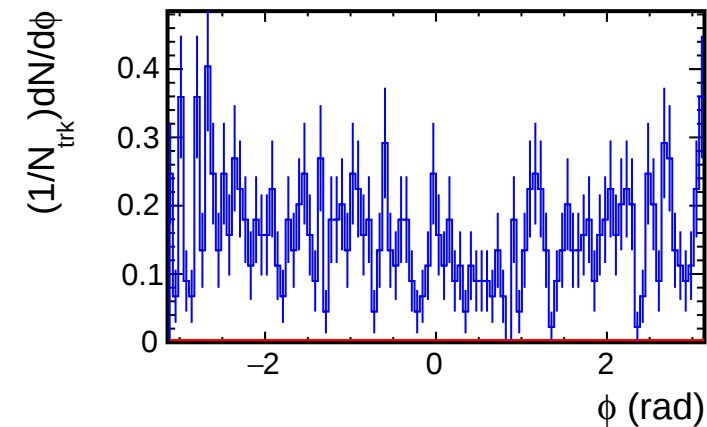
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

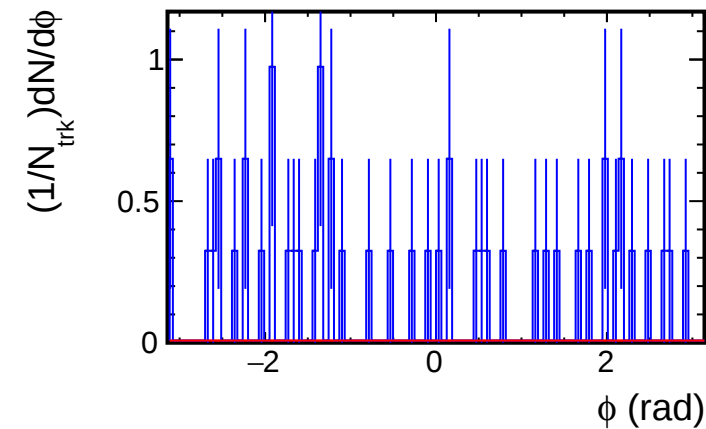


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

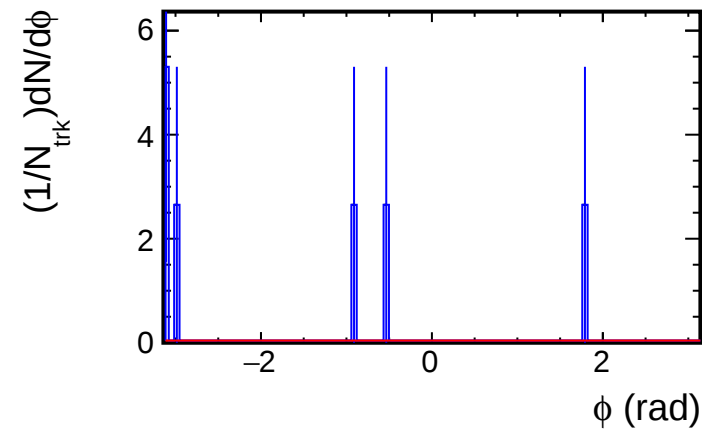
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

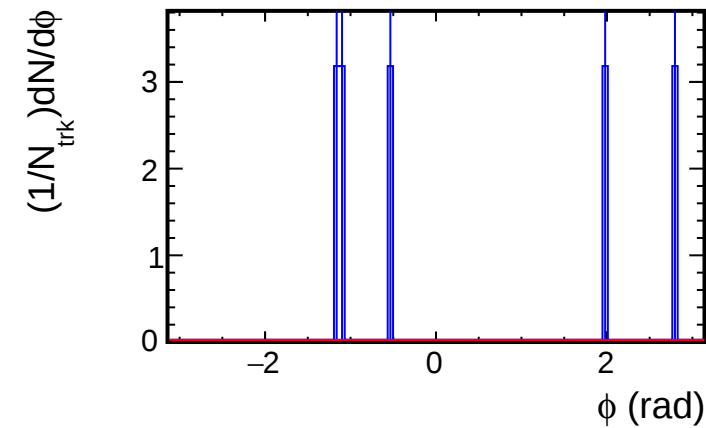
$p_T < 3.0$ (GeV/c)



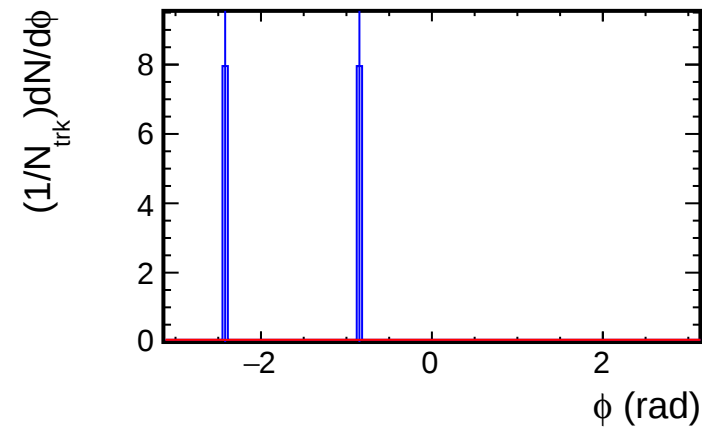
$p_T < 3.5$ (GeV/c)



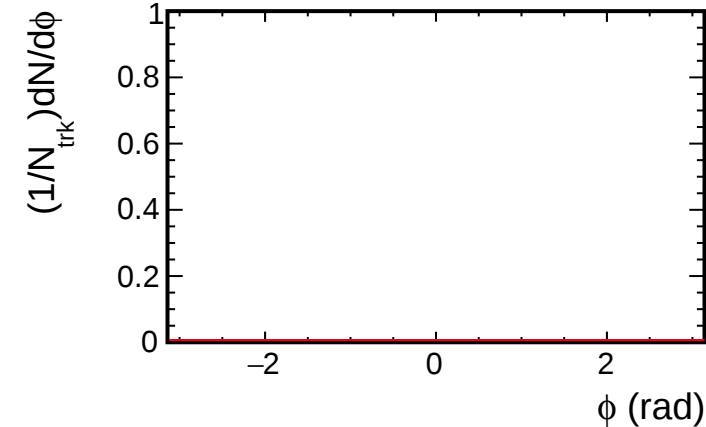
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

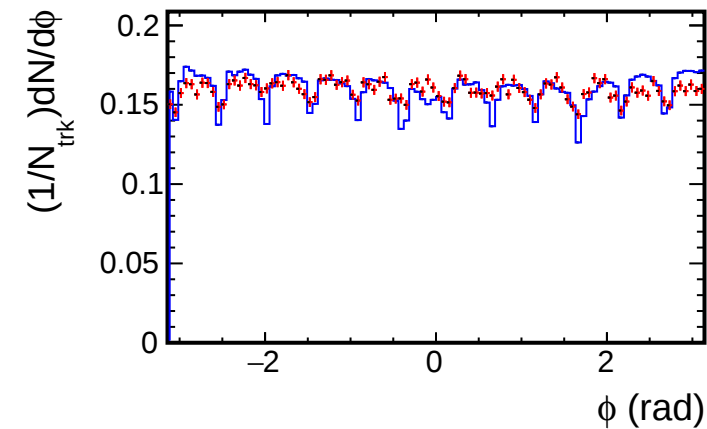


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

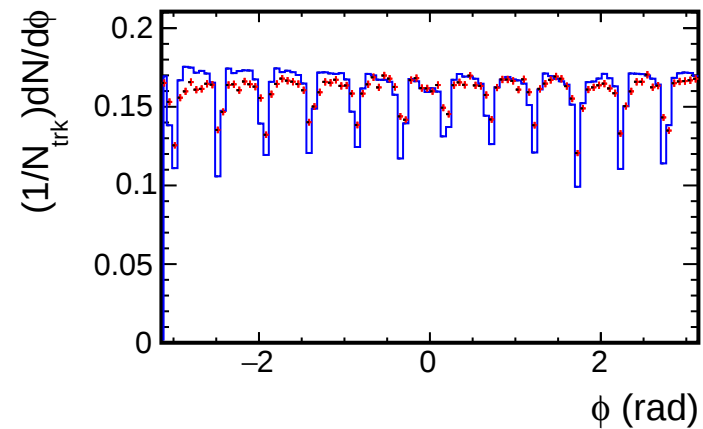
— pi-
(PRIMARY, $|\ln \sigma_{\text{pi-}}| < 2$ TPC)

Projection of ϕ for each p_T bin

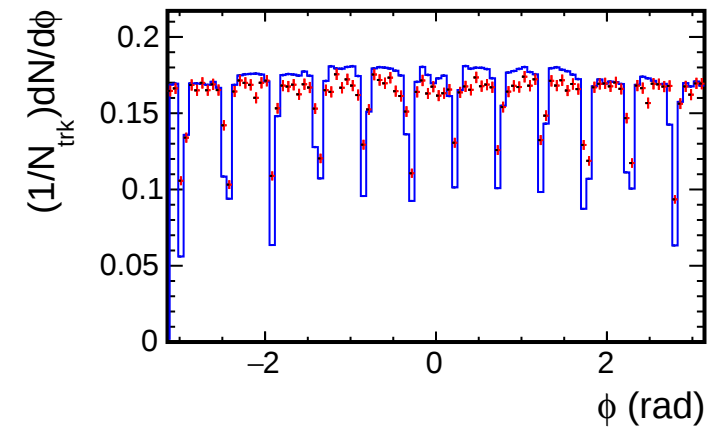
$p_T < 0.5$ (GeV/c)



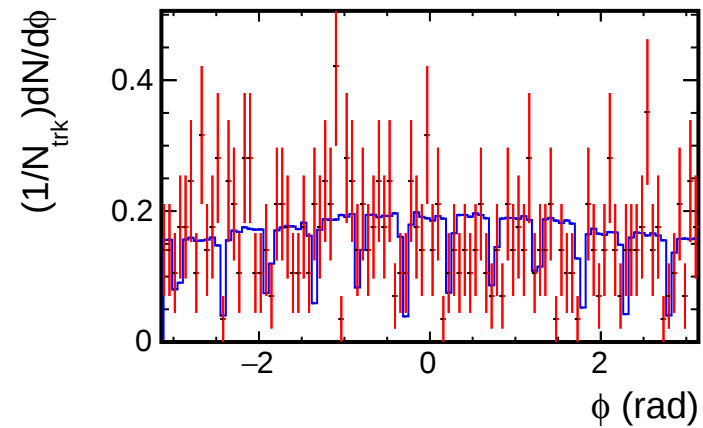
$p_T < 1.0$ (GeV/c)



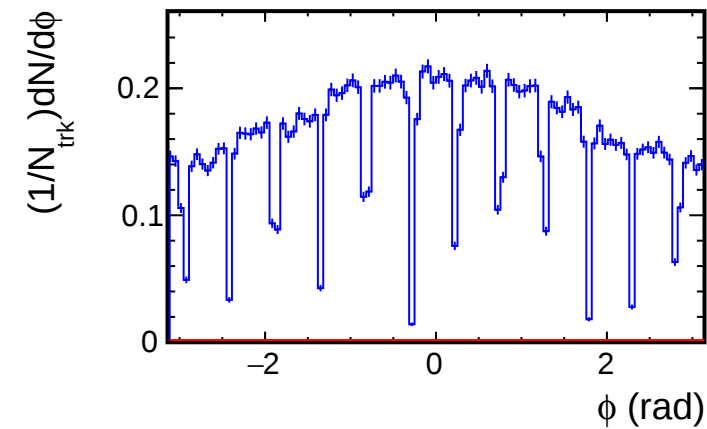
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

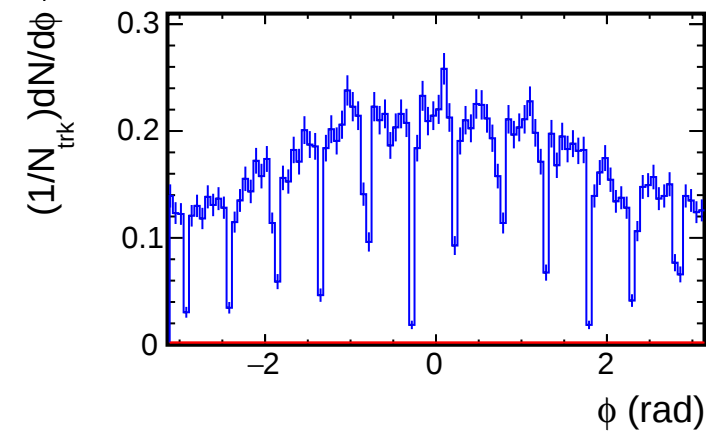


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

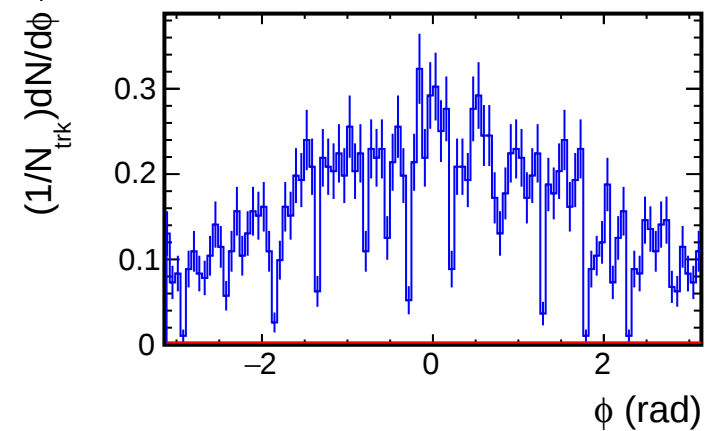
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of ϕ for each p_T bin

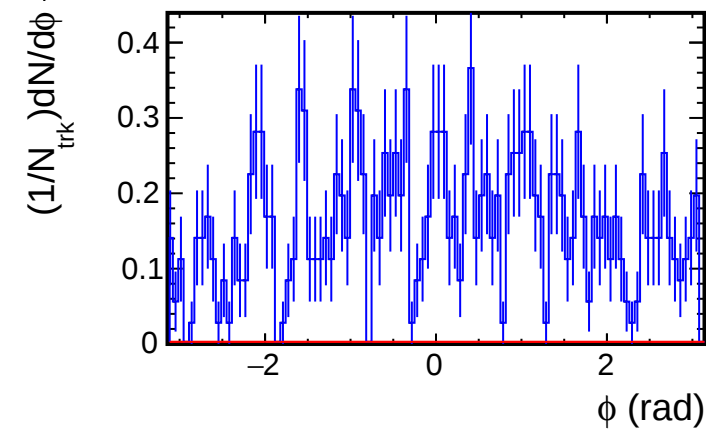
$p_T < 3.0$ (GeV/c)



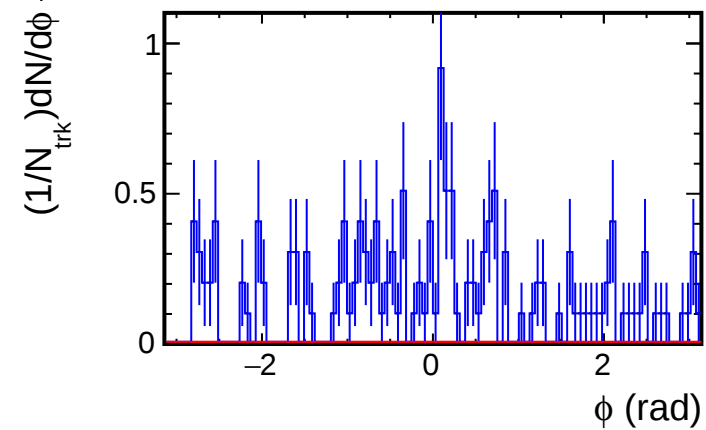
$p_T < 3.5$ (GeV/c)



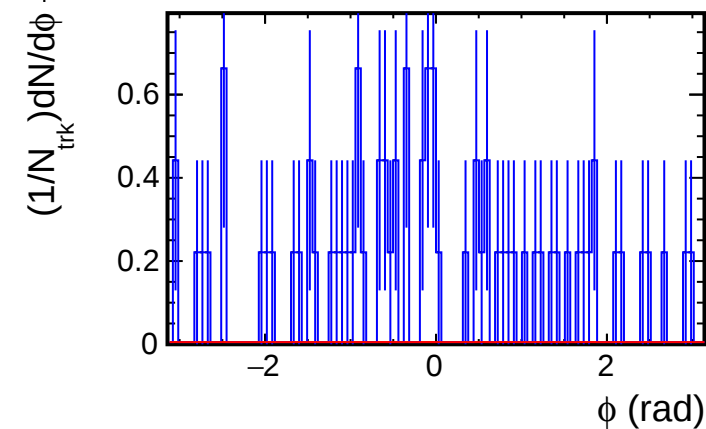
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

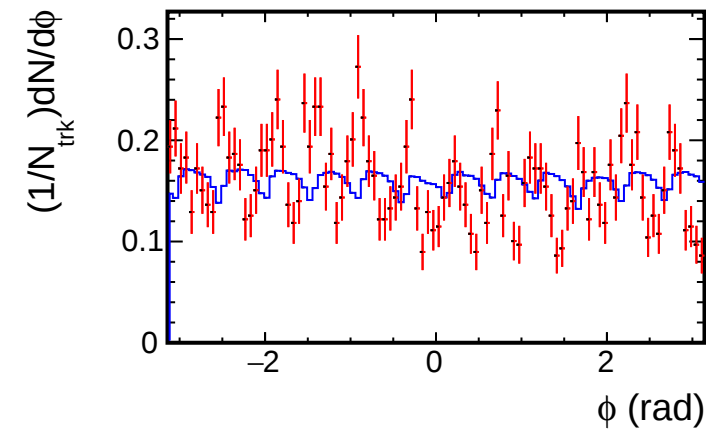


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

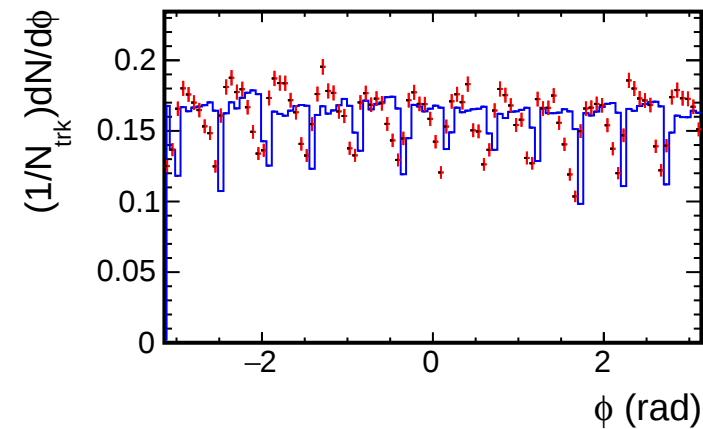
— proton
(PRIMARY, $|n_{\sigma_{\text{proton}}}| < 2$ TPC)

Projection of ϕ for each p_T bin

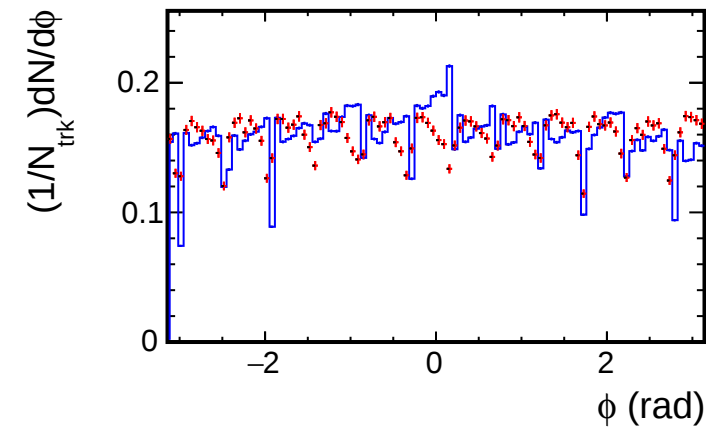
$p_T < 0.5$ (GeV/c)



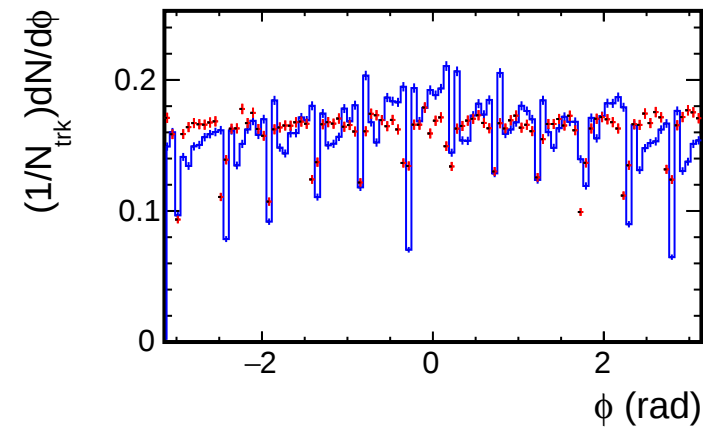
$p_T < 1.0$ (GeV/c)



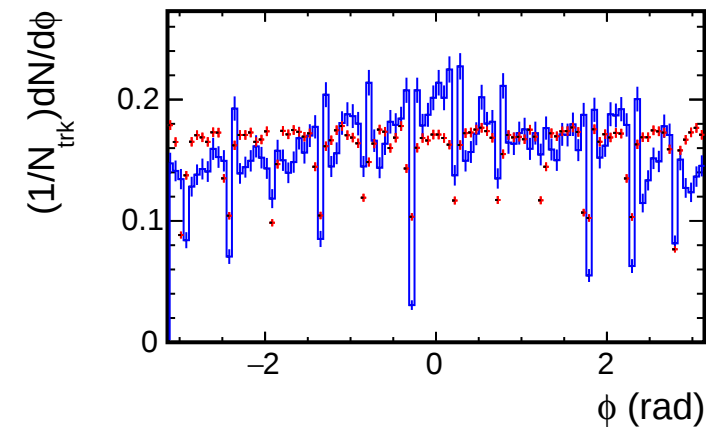
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

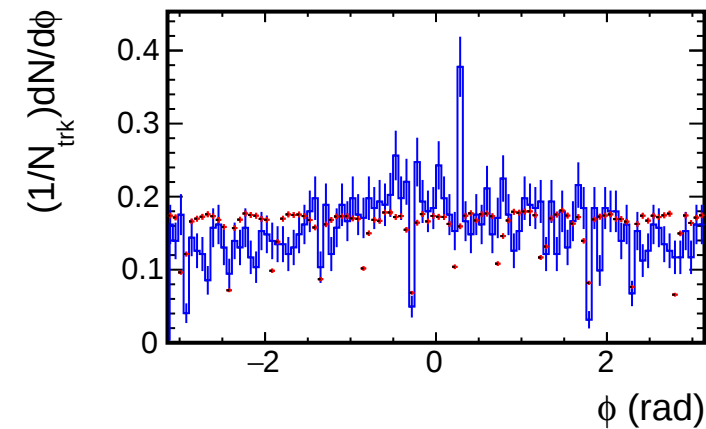


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

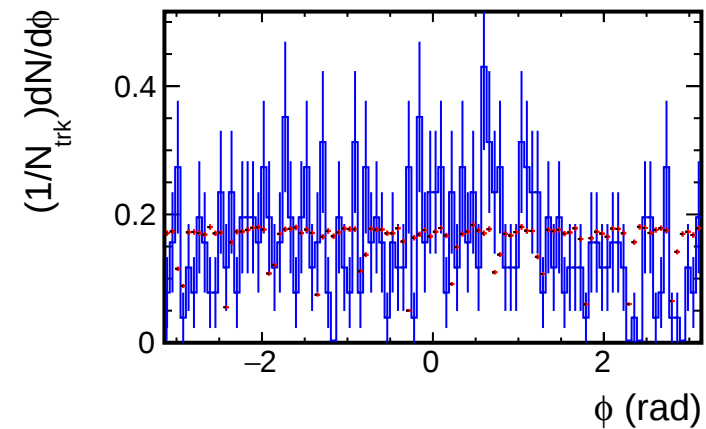
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

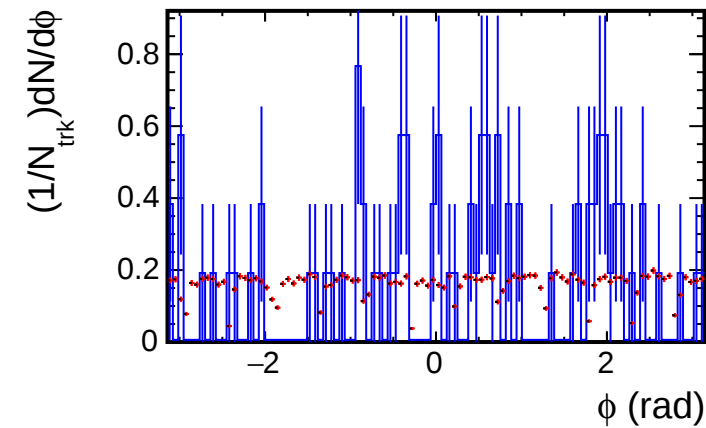
$p_T < 3.0$ (GeV/c)



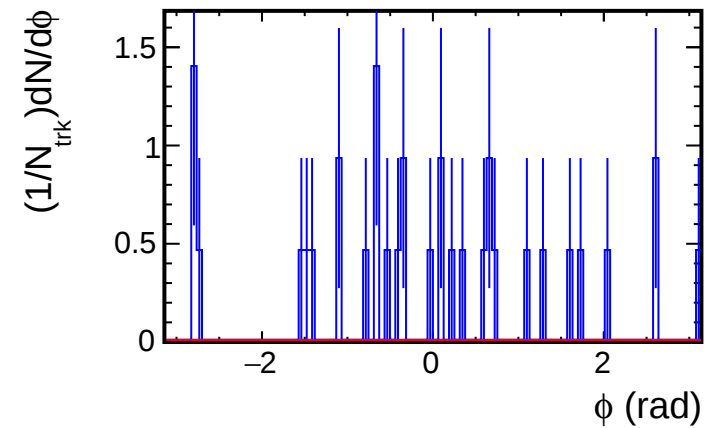
$p_T < 3.5$ (GeV/c)



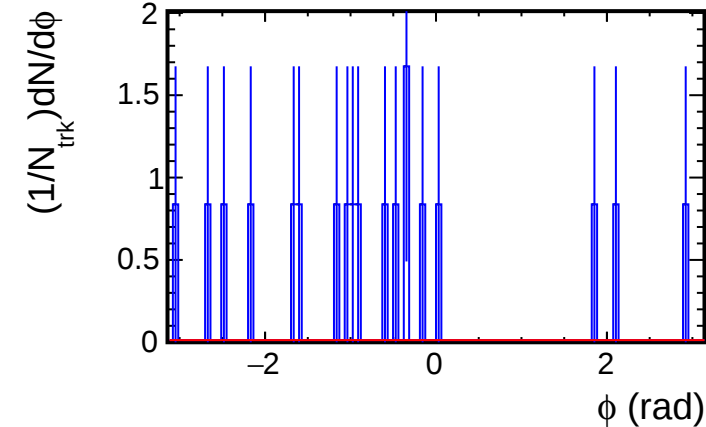
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

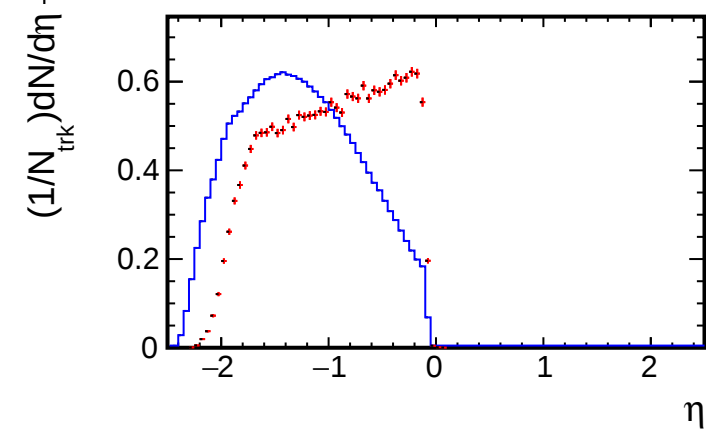


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

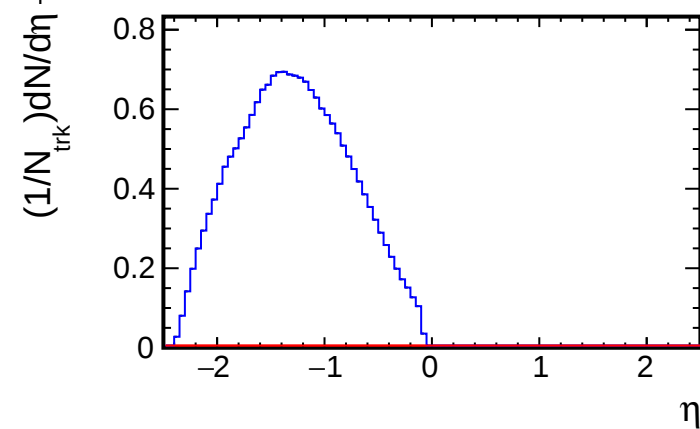
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of η for each p_T bin

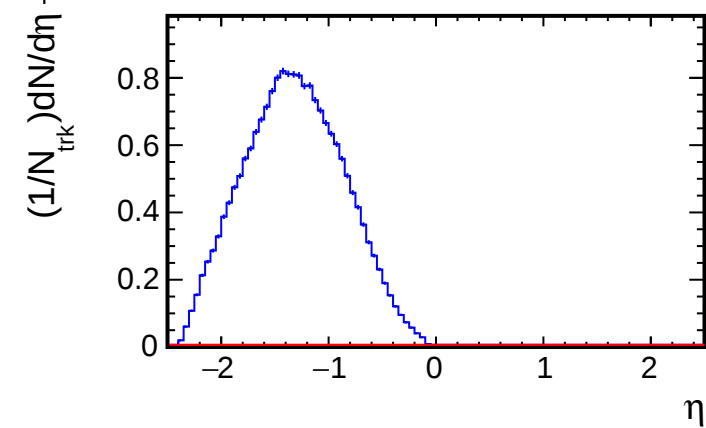
$p_T < 0.5$ (GeV/c)



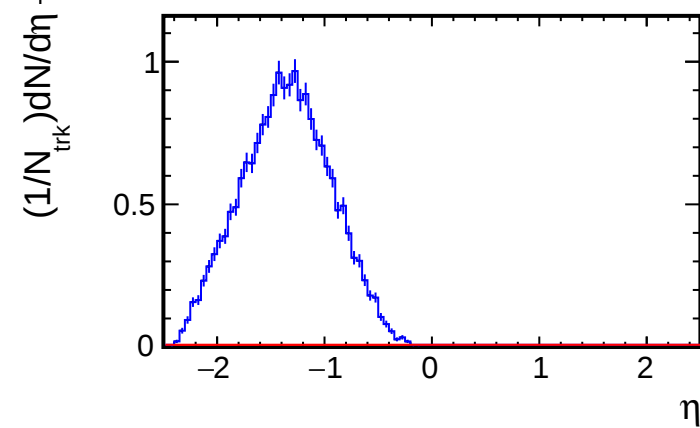
$p_T < 1.0$ (GeV/c)



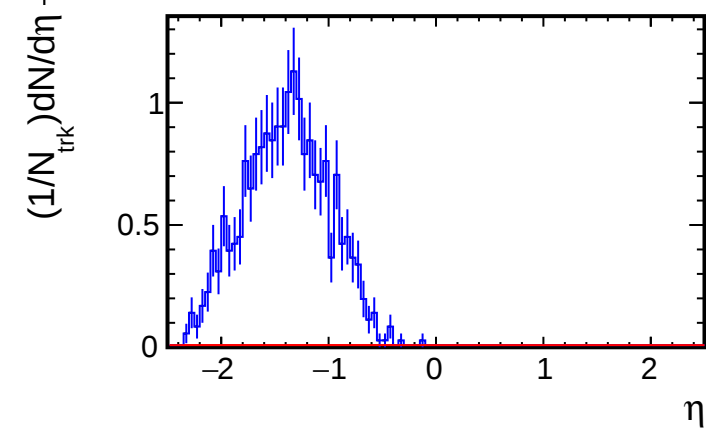
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

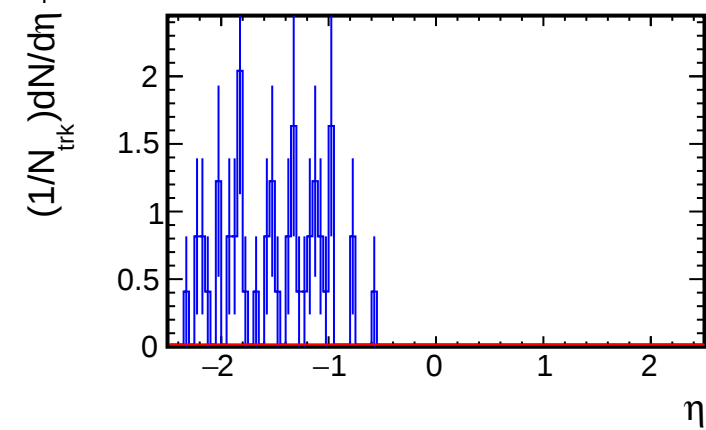


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

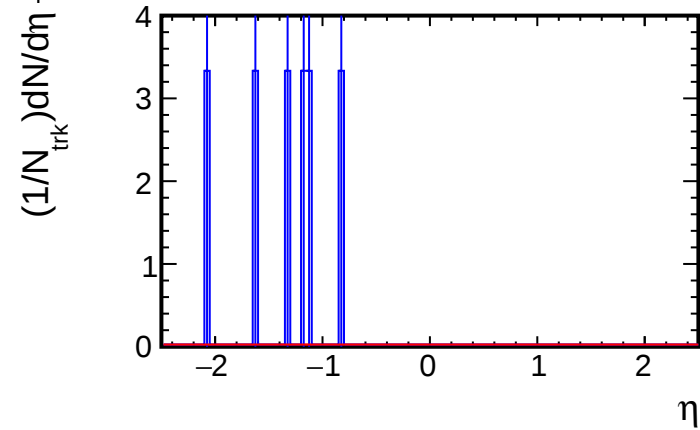
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

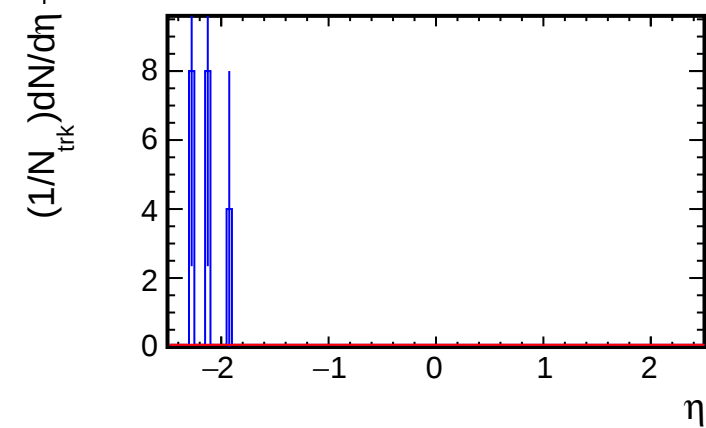
$p_T < 3.0$ (GeV/c)



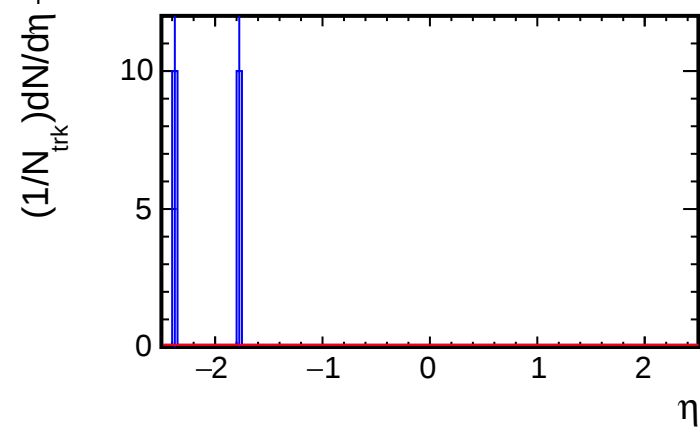
$p_T < 3.5$ (GeV/c)



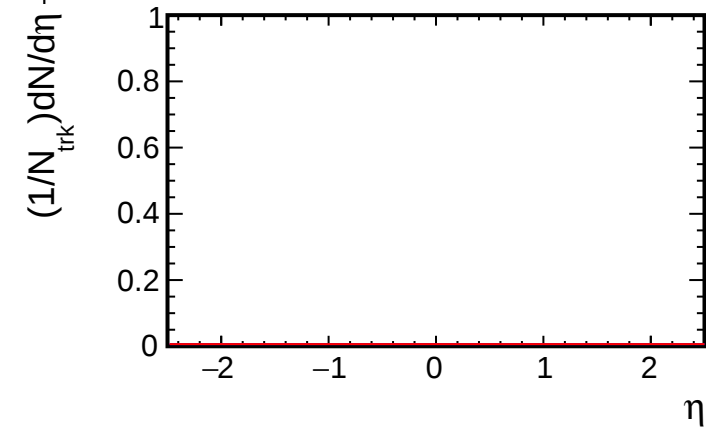
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

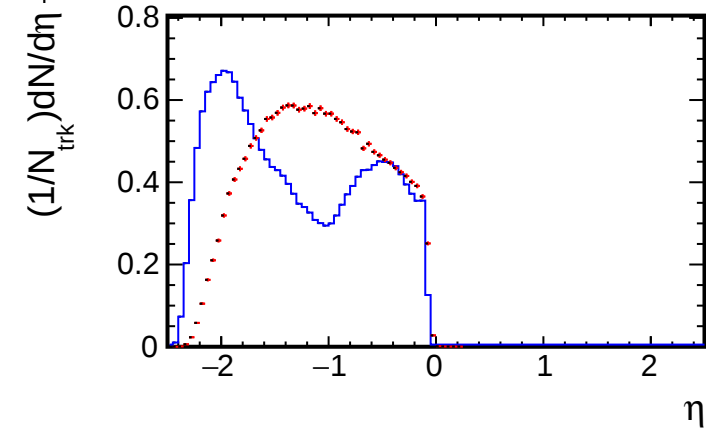


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

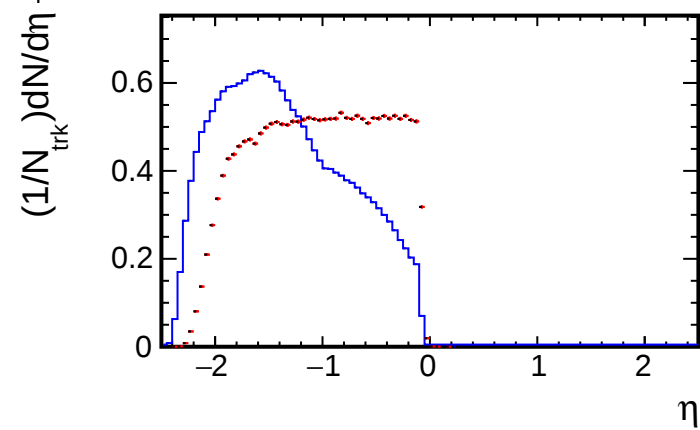
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

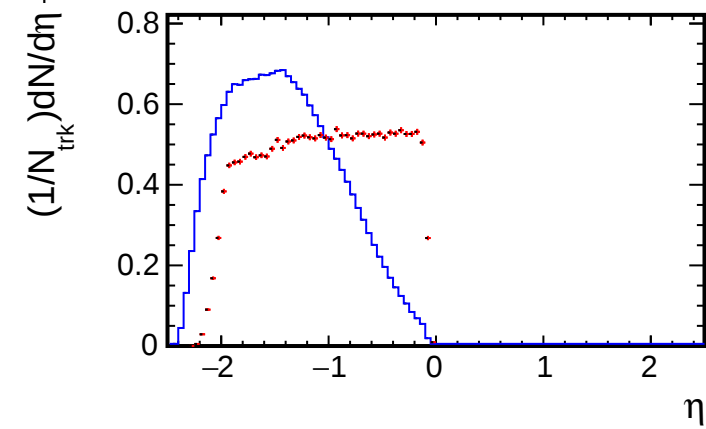
$p_T < 0.5$ (GeV/c)



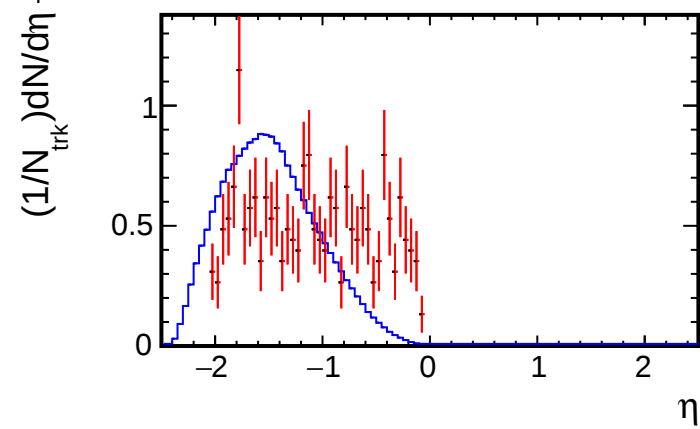
$p_T < 1.0$ (GeV/c)



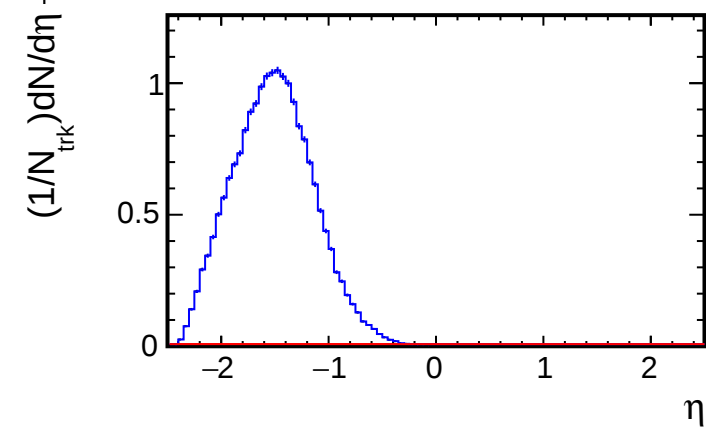
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

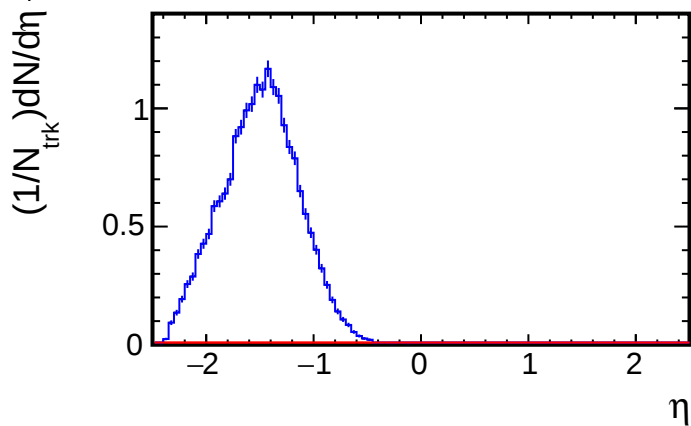


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

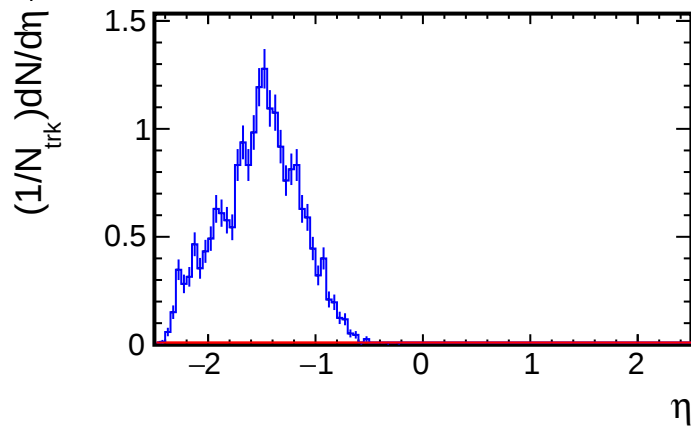
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of η for each p_T bin

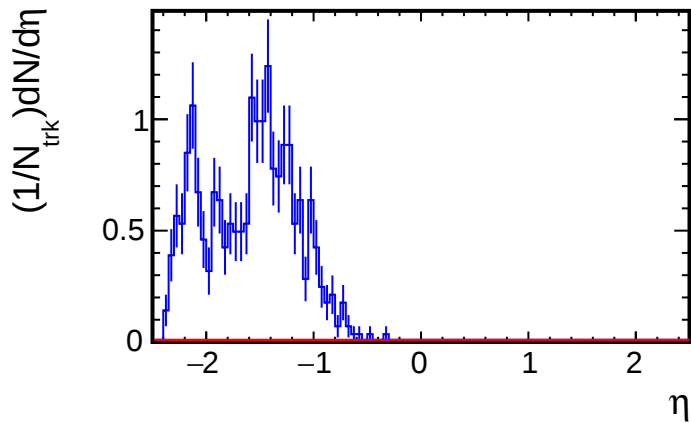
$p_T < 3.0$ (GeV/c)



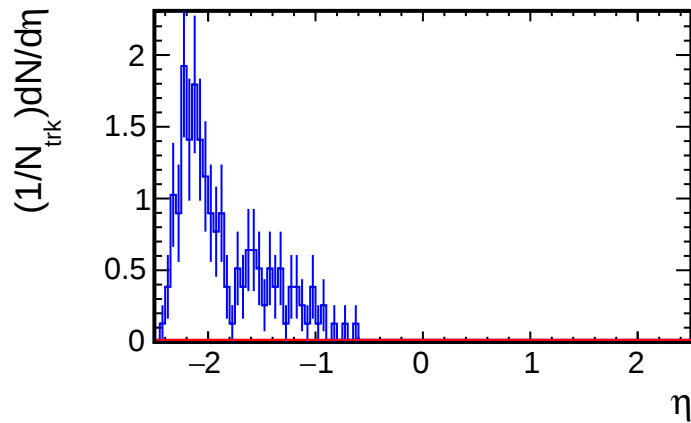
$p_T < 3.5$ (GeV/c)



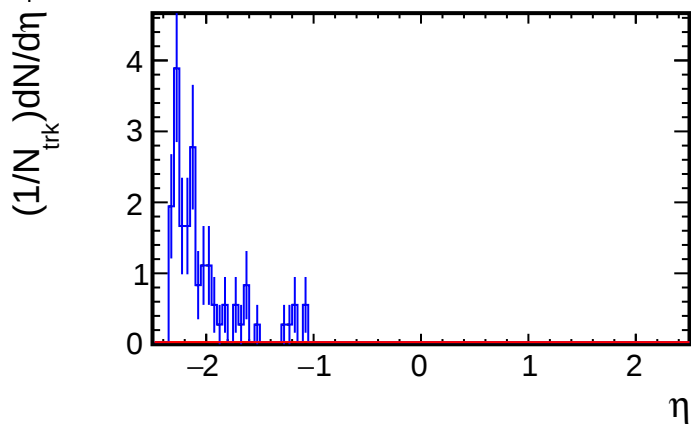
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

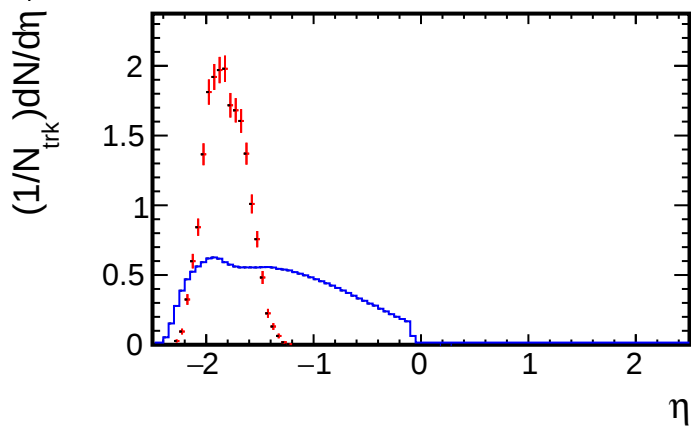


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

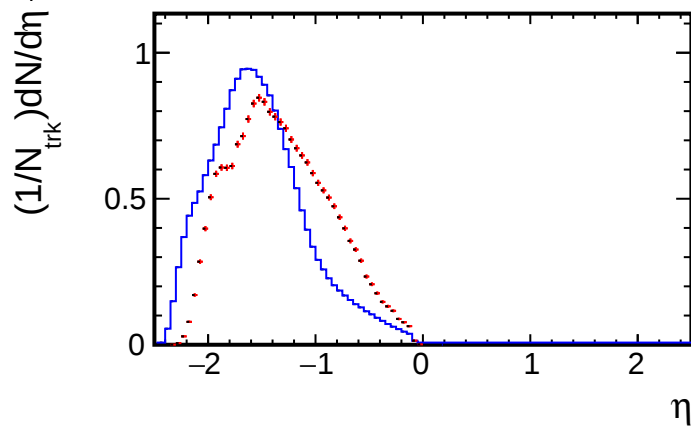
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of η for each p_T bin

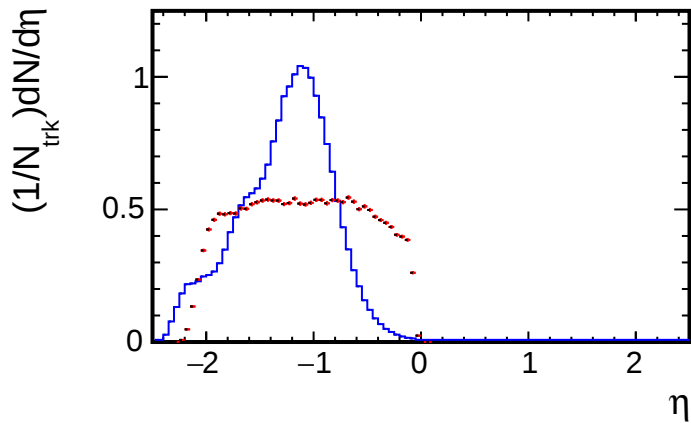
$p_T < 0.5$ (GeV/c)



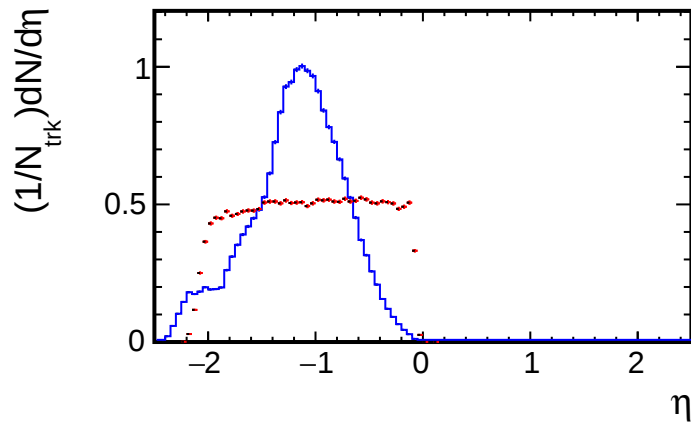
$p_T < 1.0$ (GeV/c)



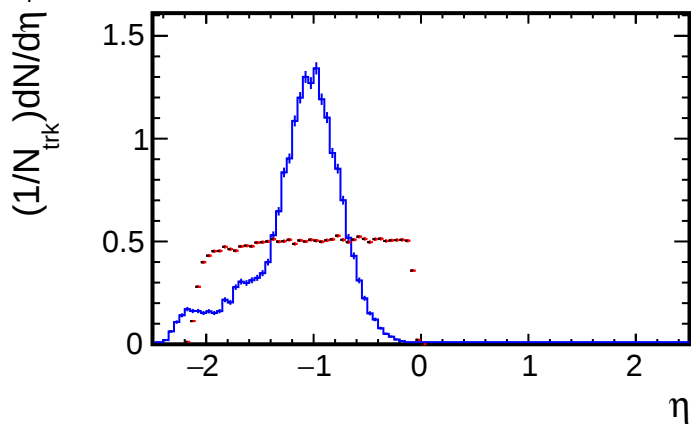
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

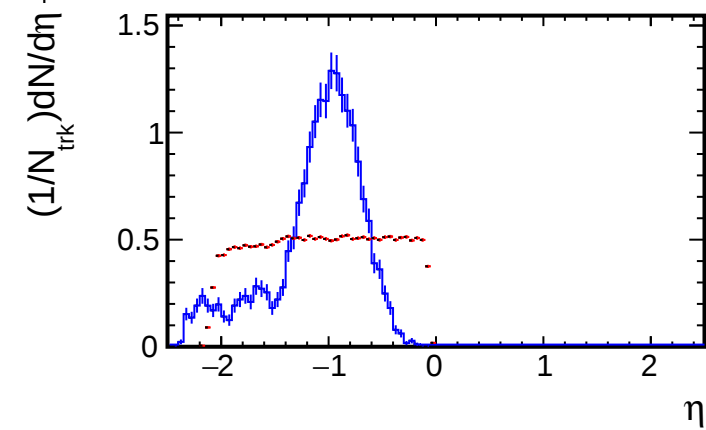


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

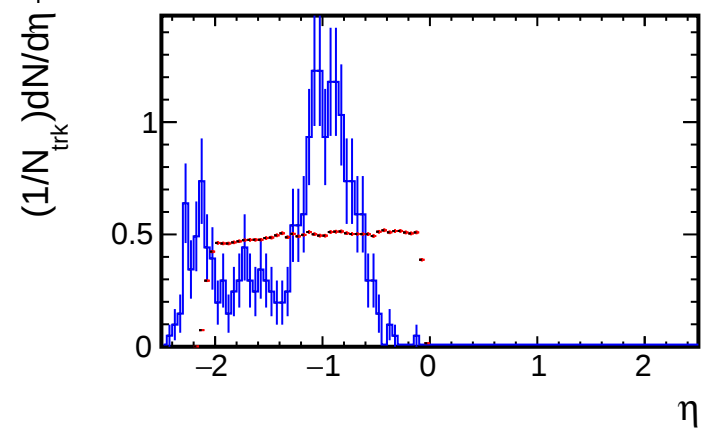
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Projection of η for each p_T bin

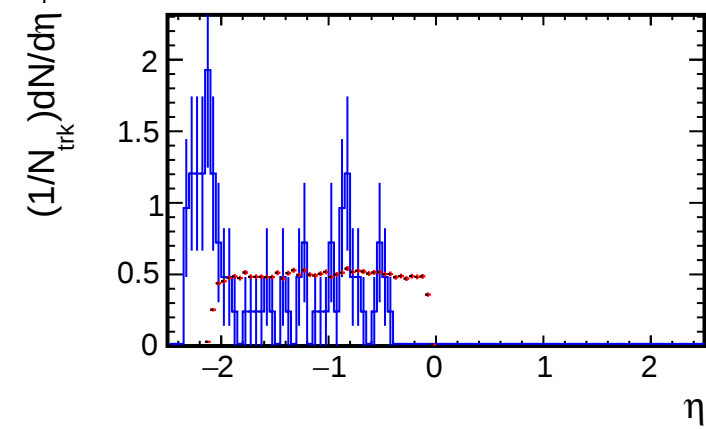
$p_T < 3.0$ (GeV/c)



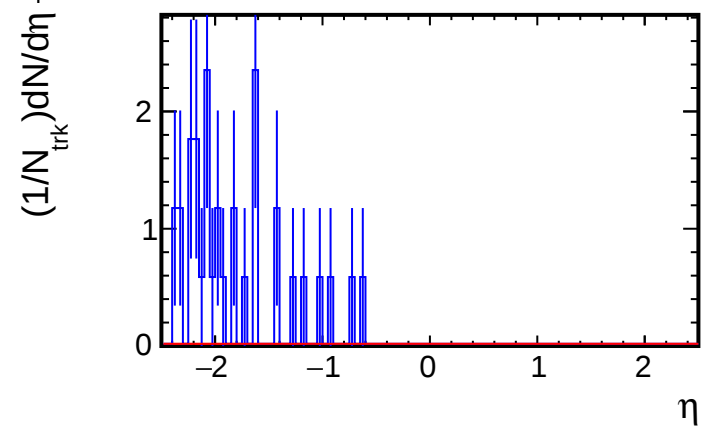
$p_T < 3.5$ (GeV/c)



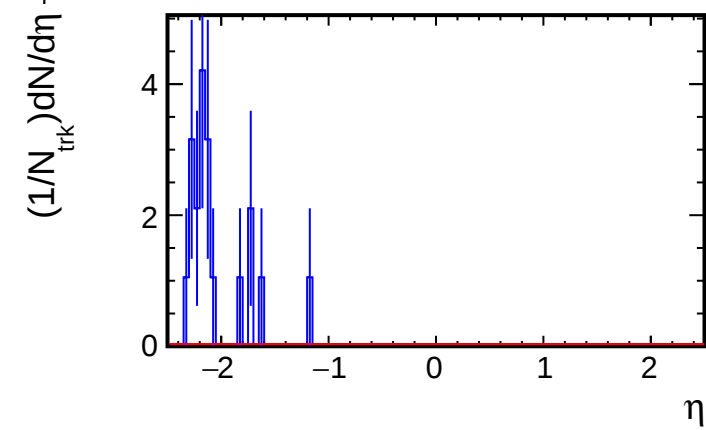
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

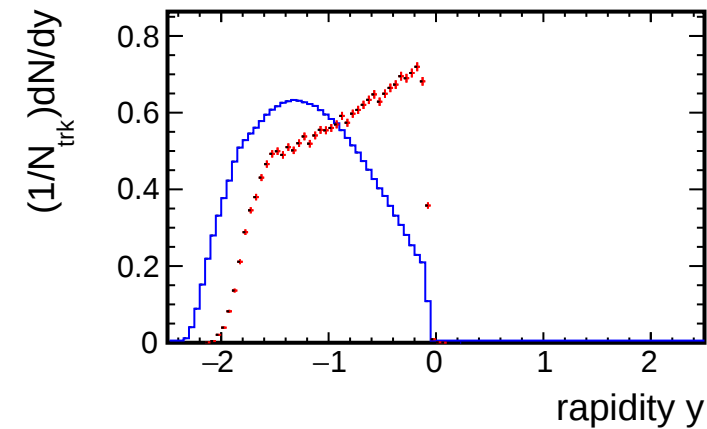


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

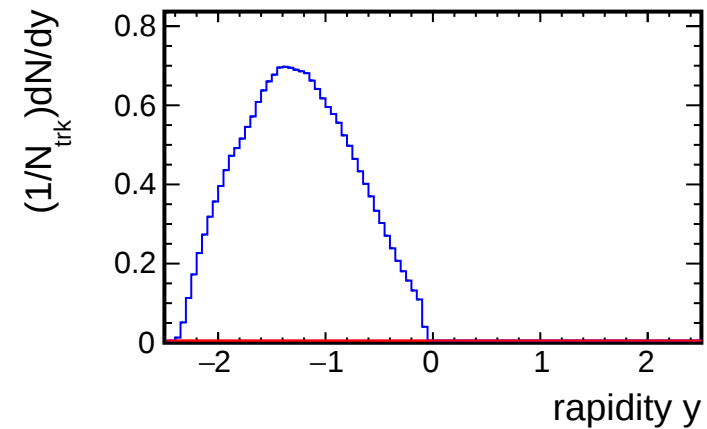
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

Projection of y for each p_T bin

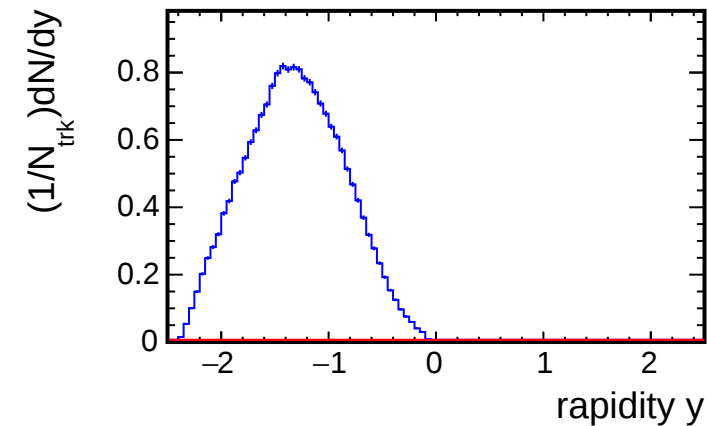
$p_T < 0.5$ (GeV/c)



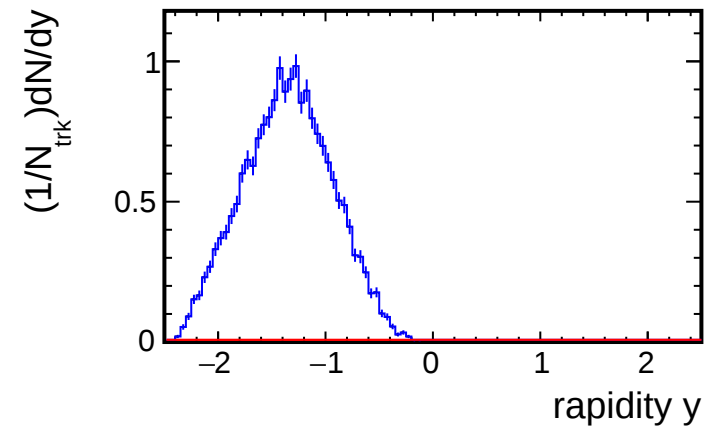
$p_T < 1.0$ (GeV/c)



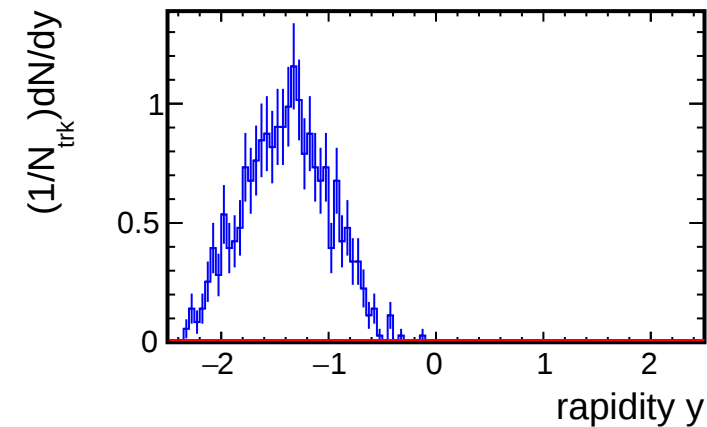
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

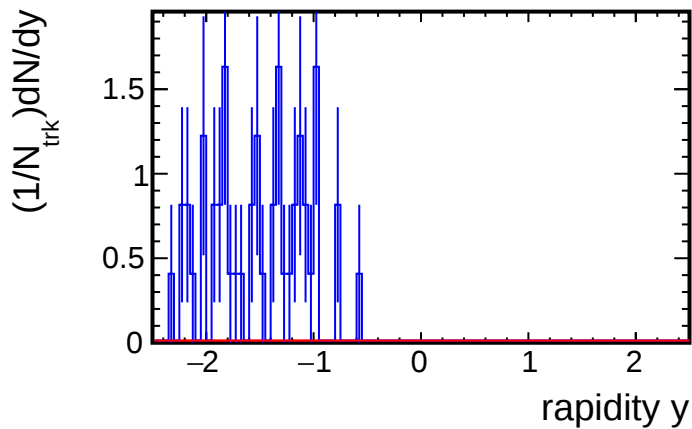


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

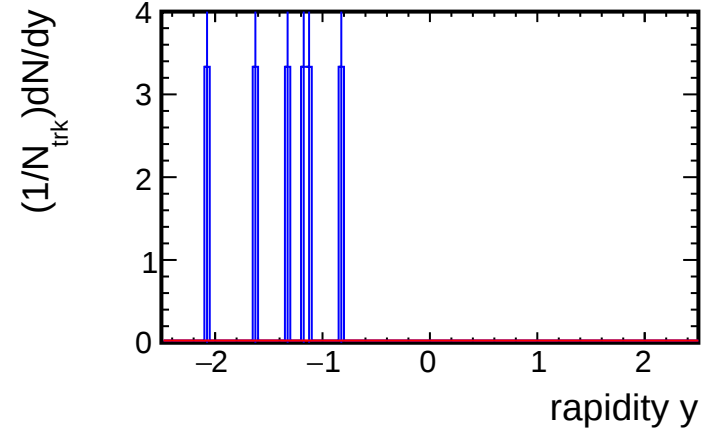
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of y for each p_T bin

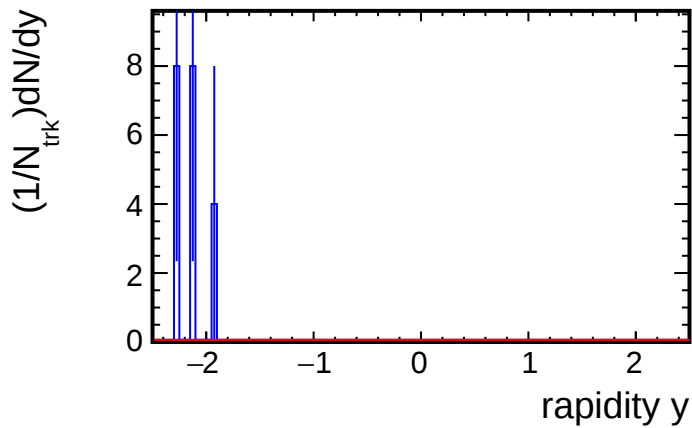
$p_T < 3.0$ (GeV/c)



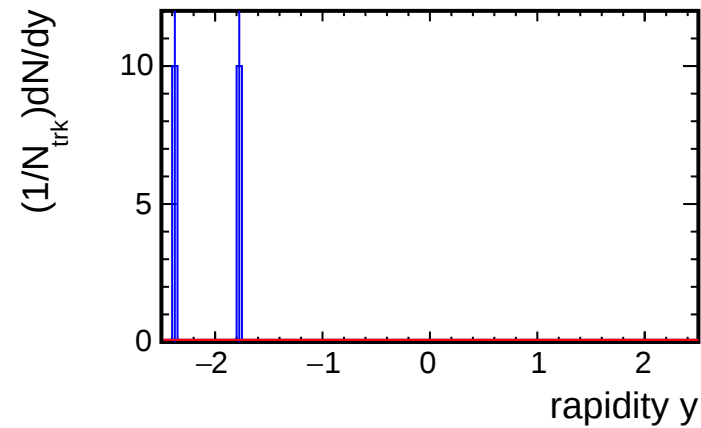
$p_T < 3.5$ (GeV/c)



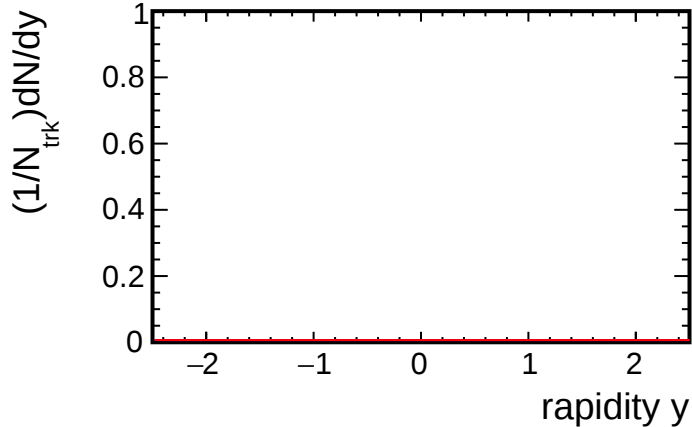
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

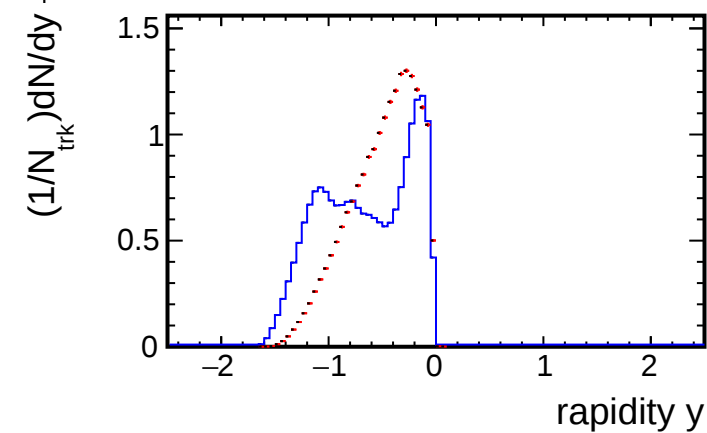


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

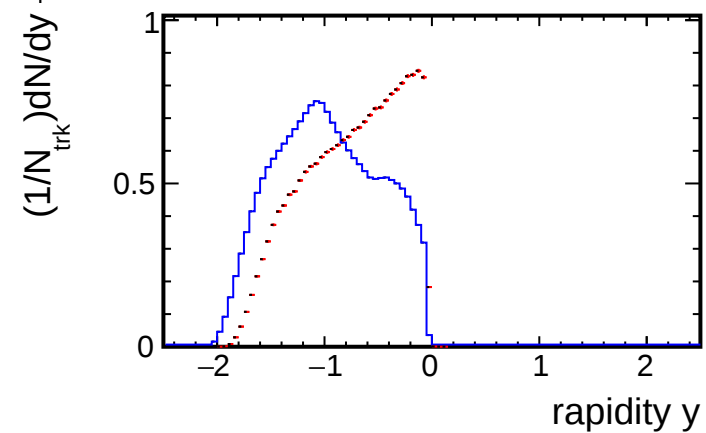
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of y for each p_T bin

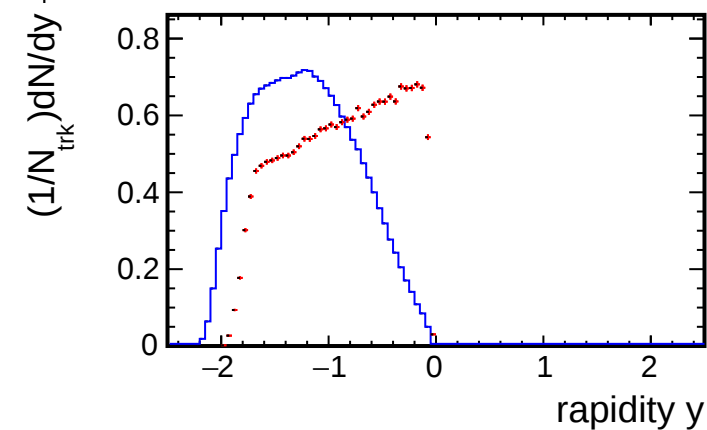
$p_T < 0.5$ (GeV/c)



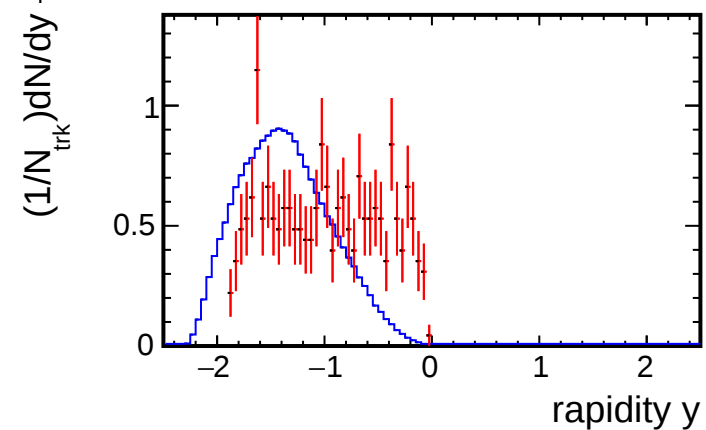
$p_T < 1.0$ (GeV/c)



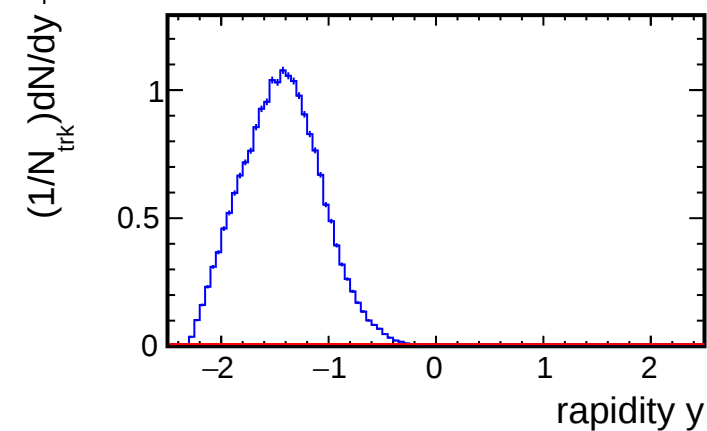
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

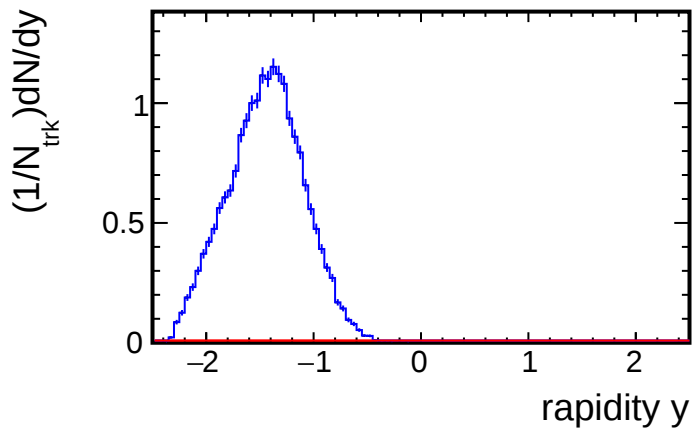


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

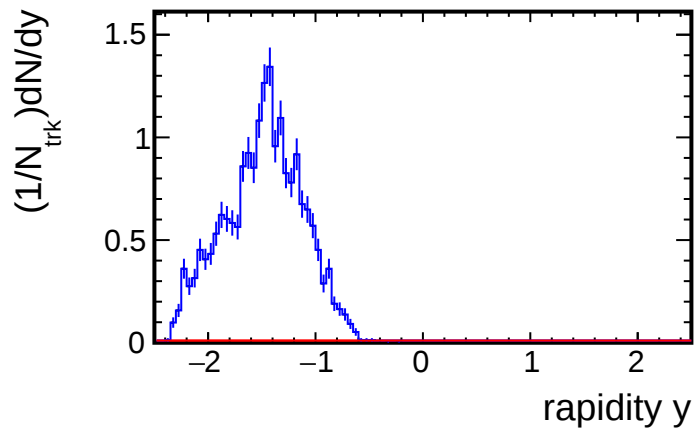
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of y for each p_T bin

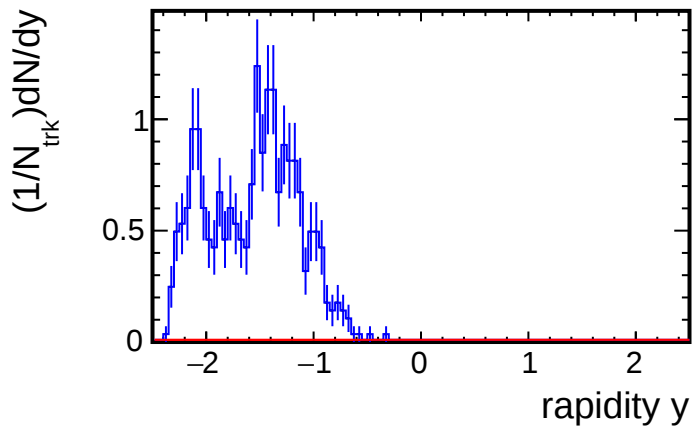
$p_T < 3.0$ (GeV/c)



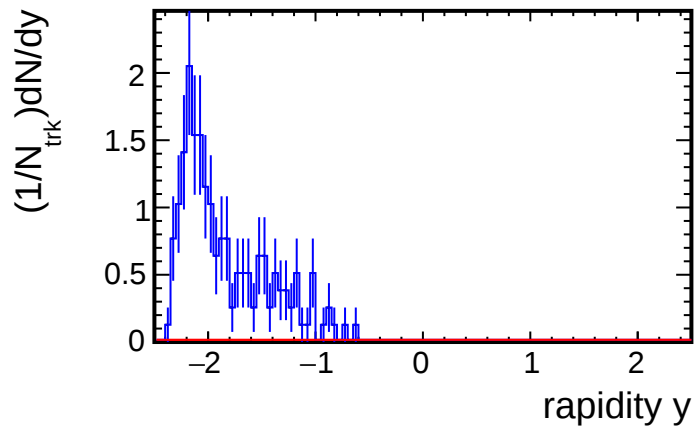
$p_T < 3.5$ (GeV/c)



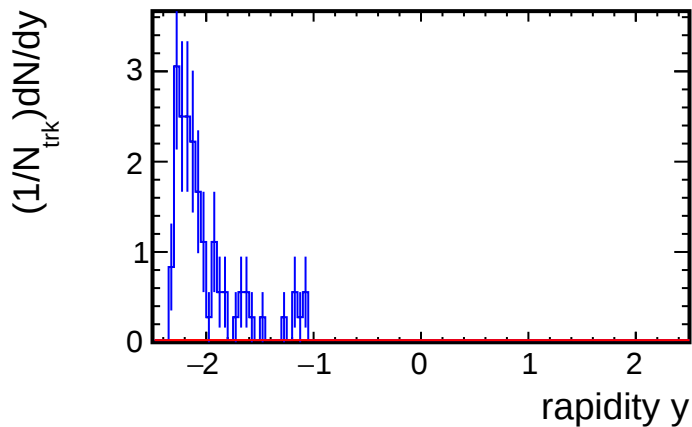
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

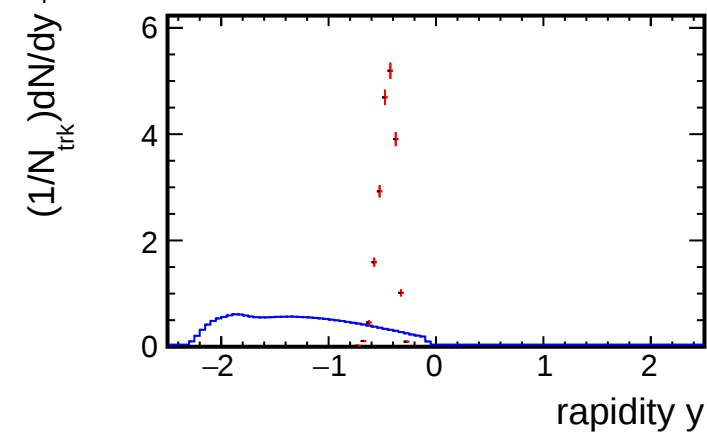


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

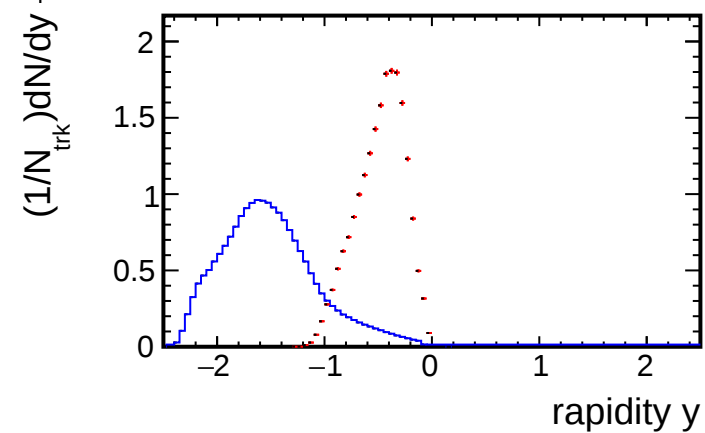
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Projection of y for each p_T bin

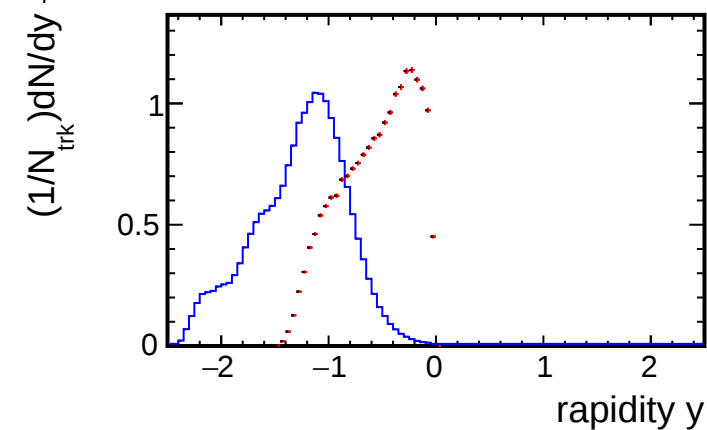
$p_T < 0.5$ (GeV/c)



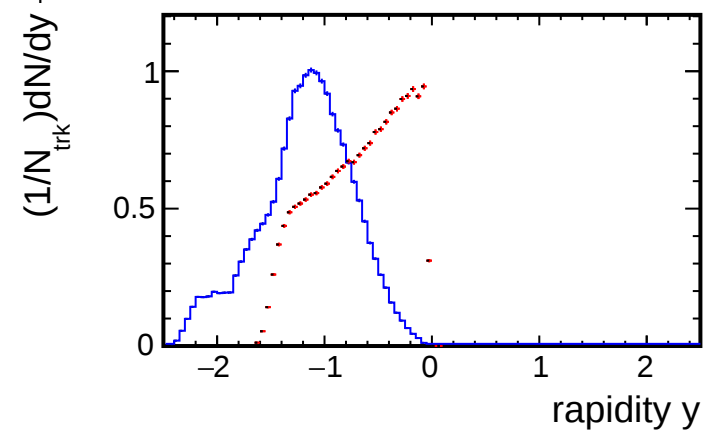
$p_T < 1.0$ (GeV/c)



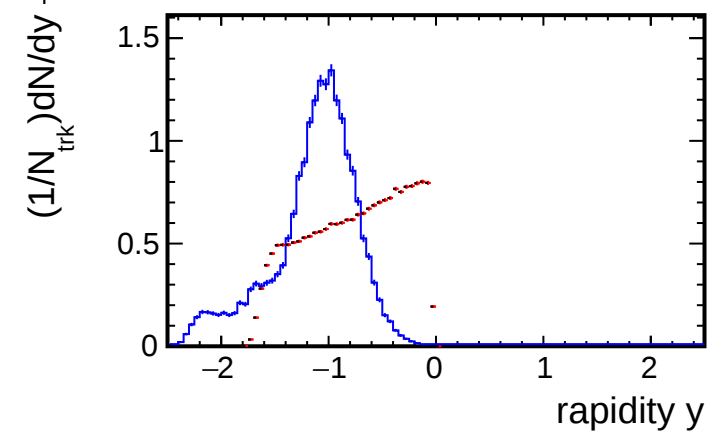
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

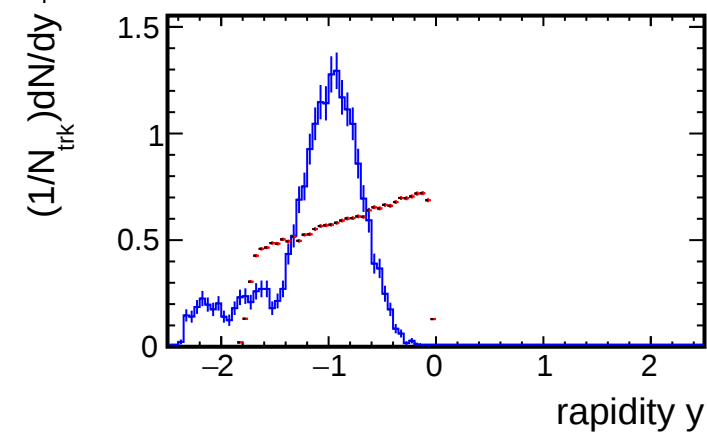


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

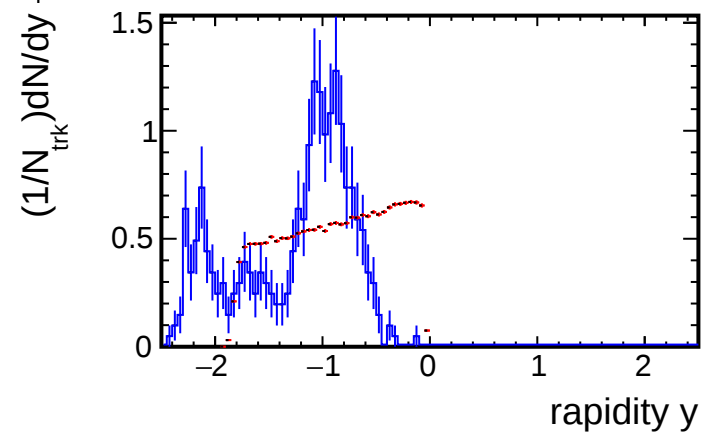
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Projection of y for each p_T bin

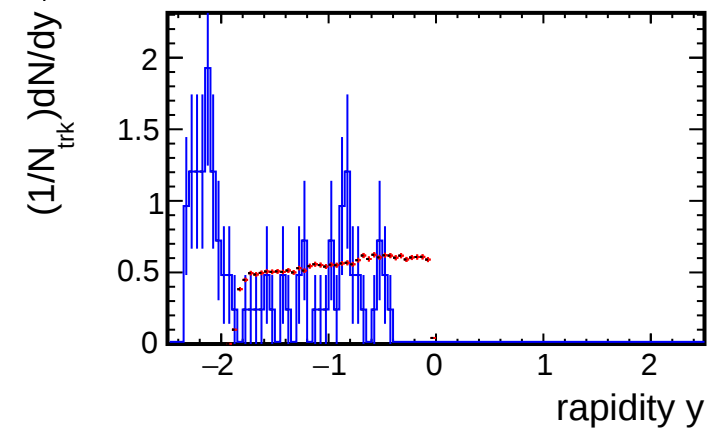
$p_T < 3.0$ (GeV/c)



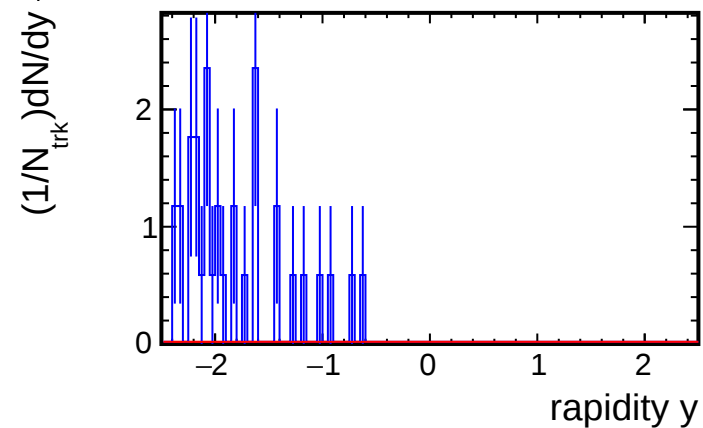
$p_T < 3.5$ (GeV/c)



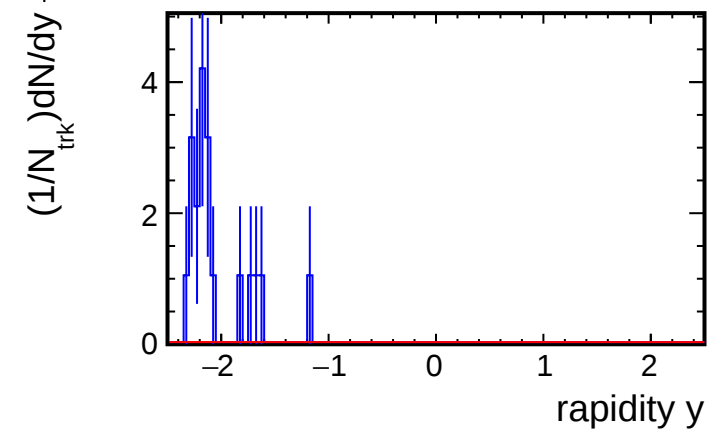
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



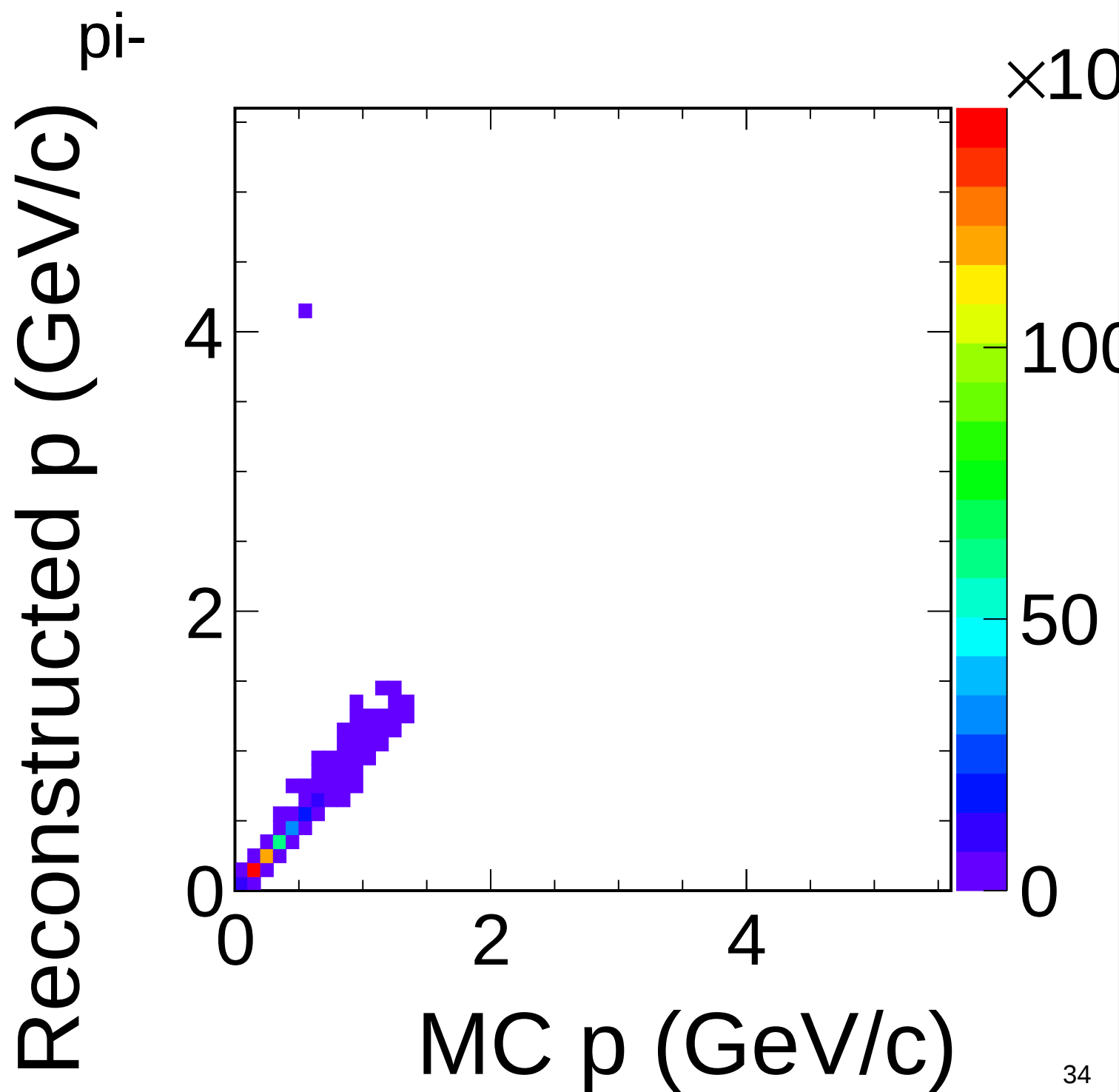
$p_T < 5.0$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

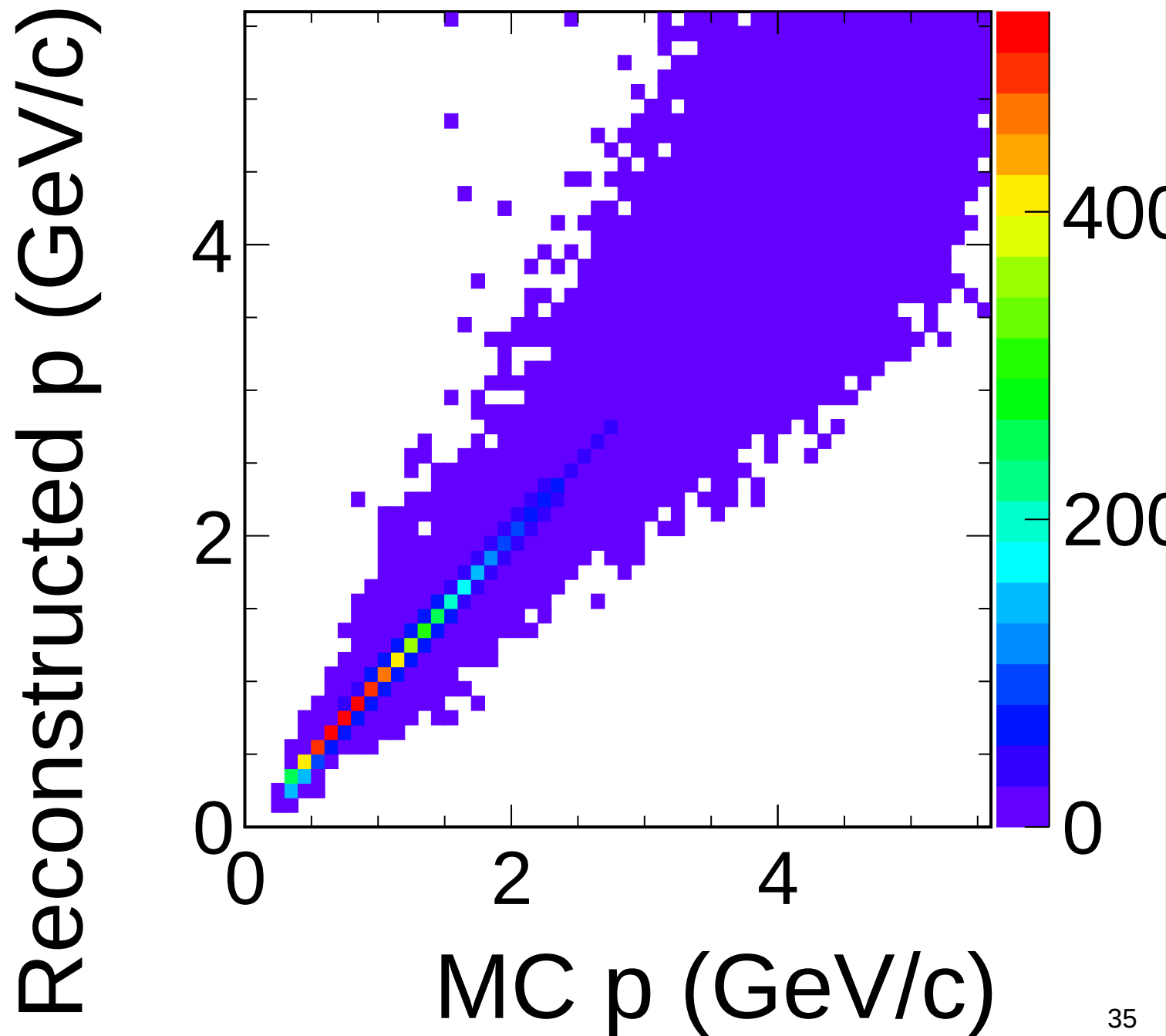
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Reconstructed momentum vs MC momentum



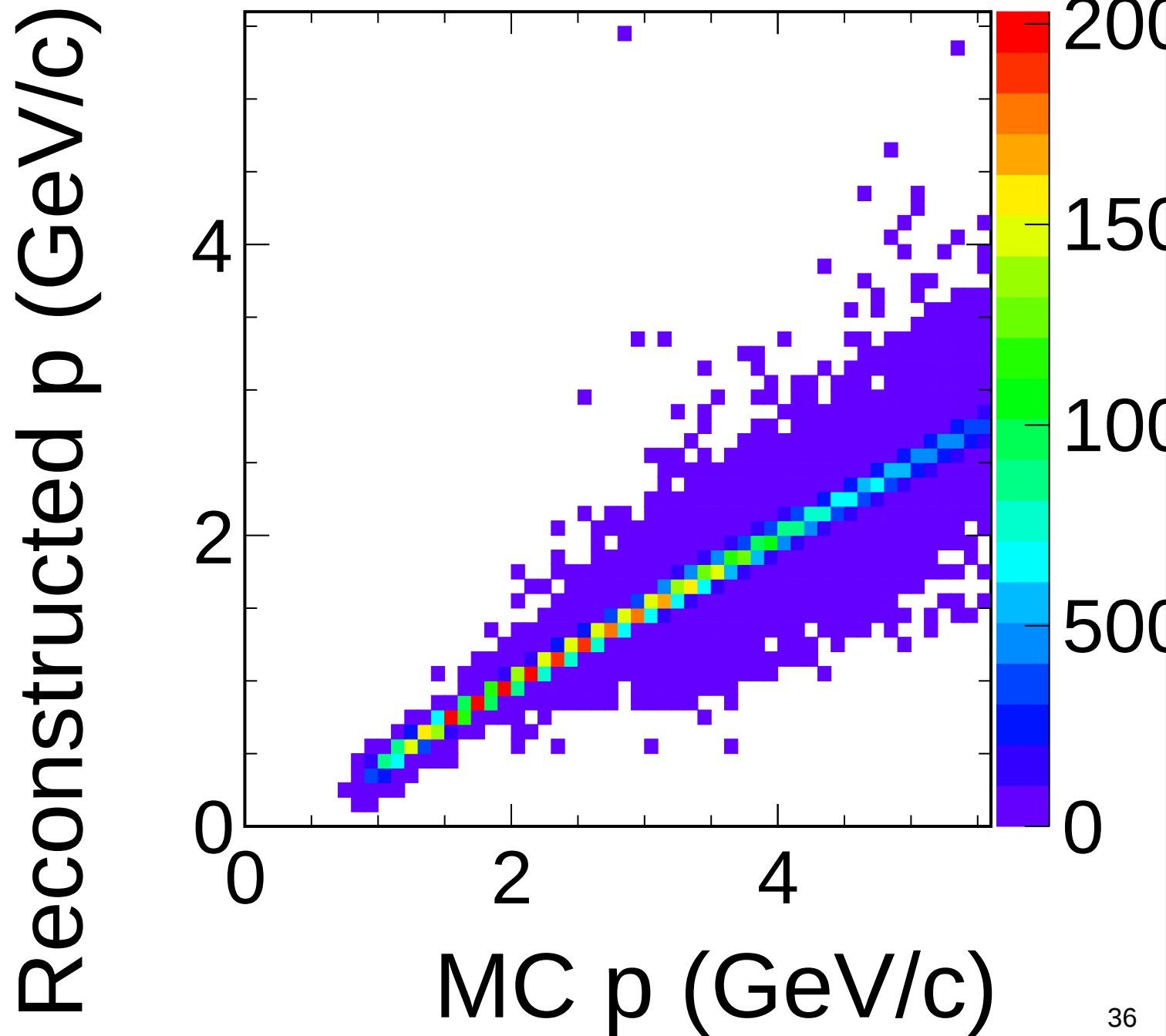
Reconstructed momentum vs MC momentum

proton

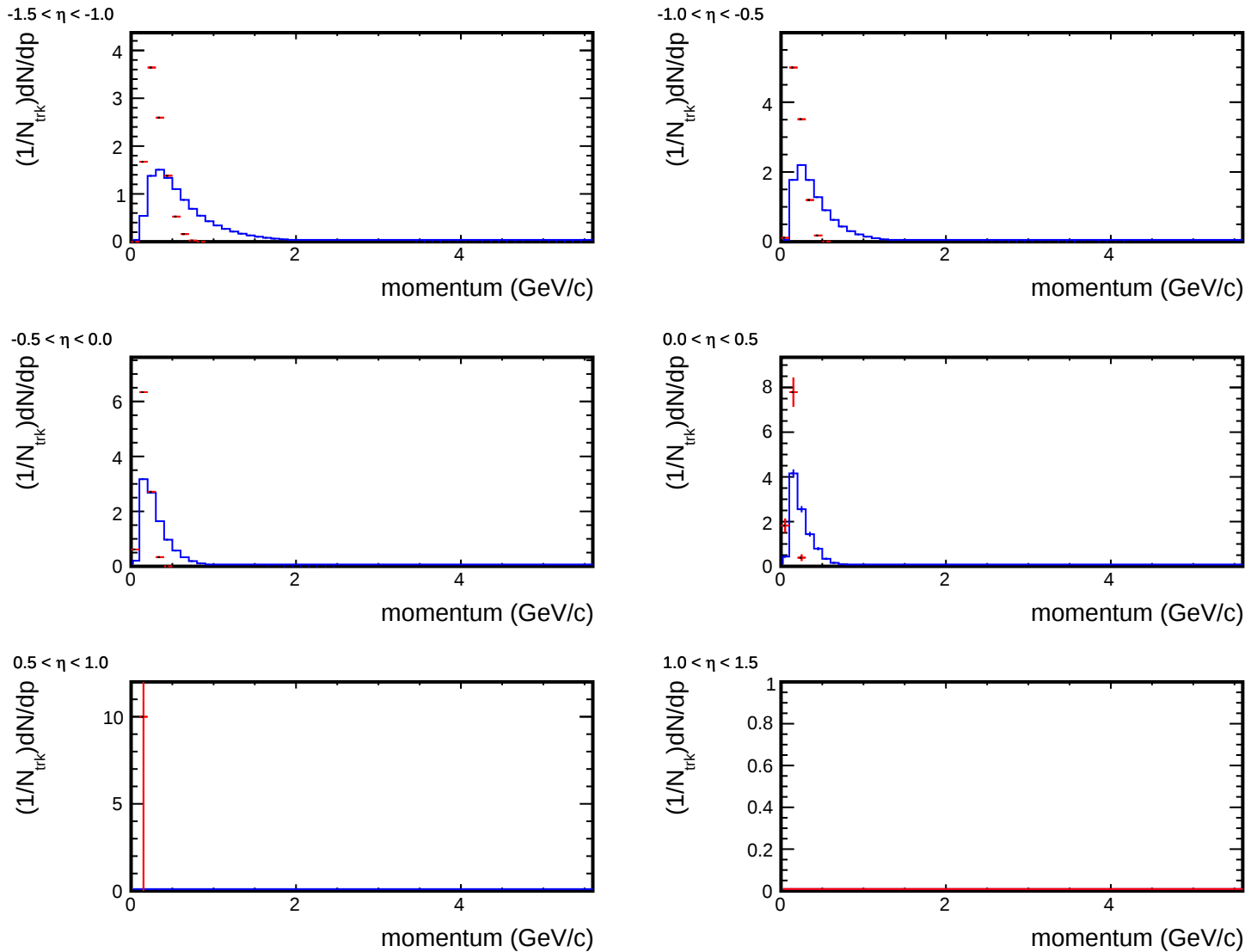


Reconstructed momentum vs MC momentum

He3



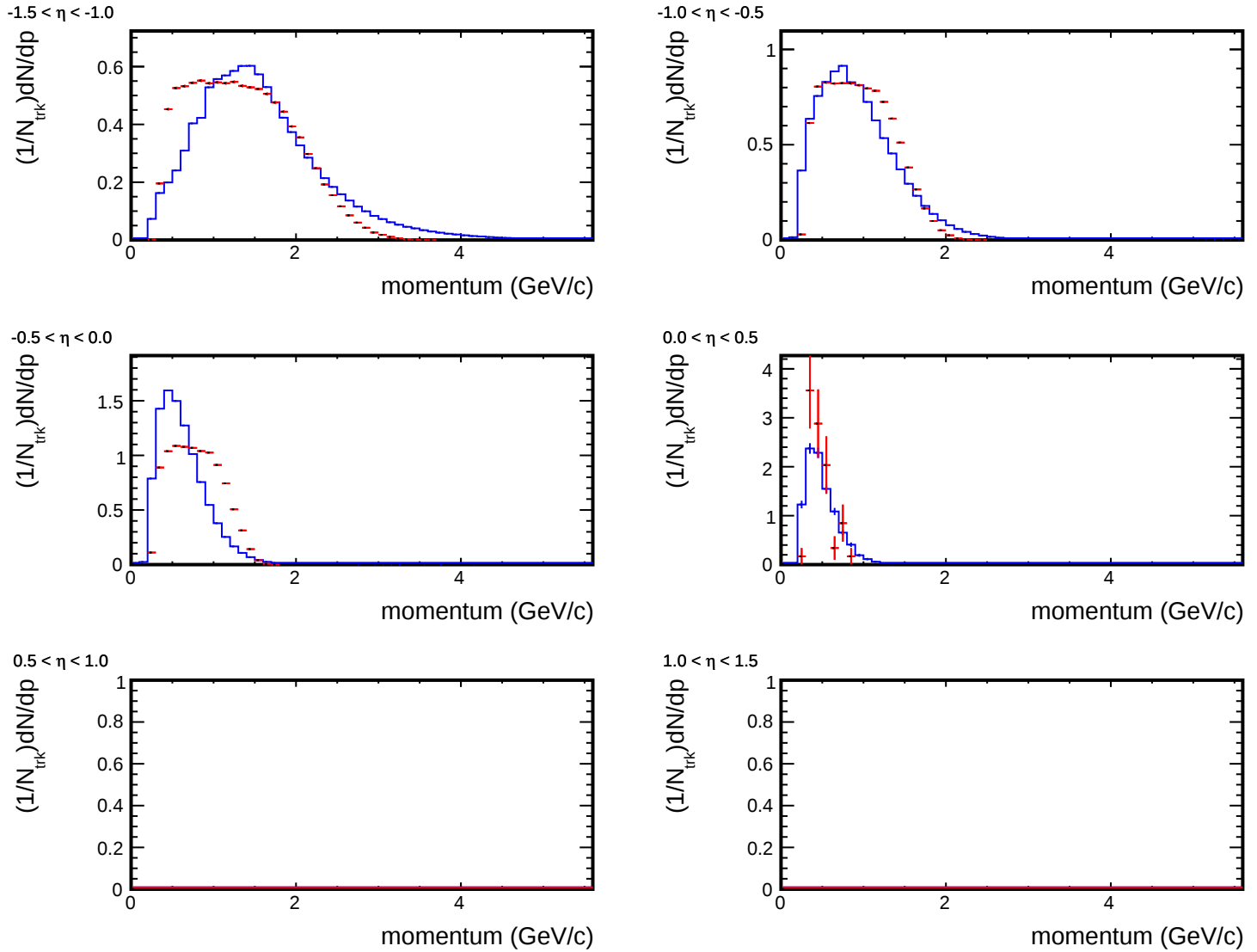
Projection of p for each η bin



— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

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

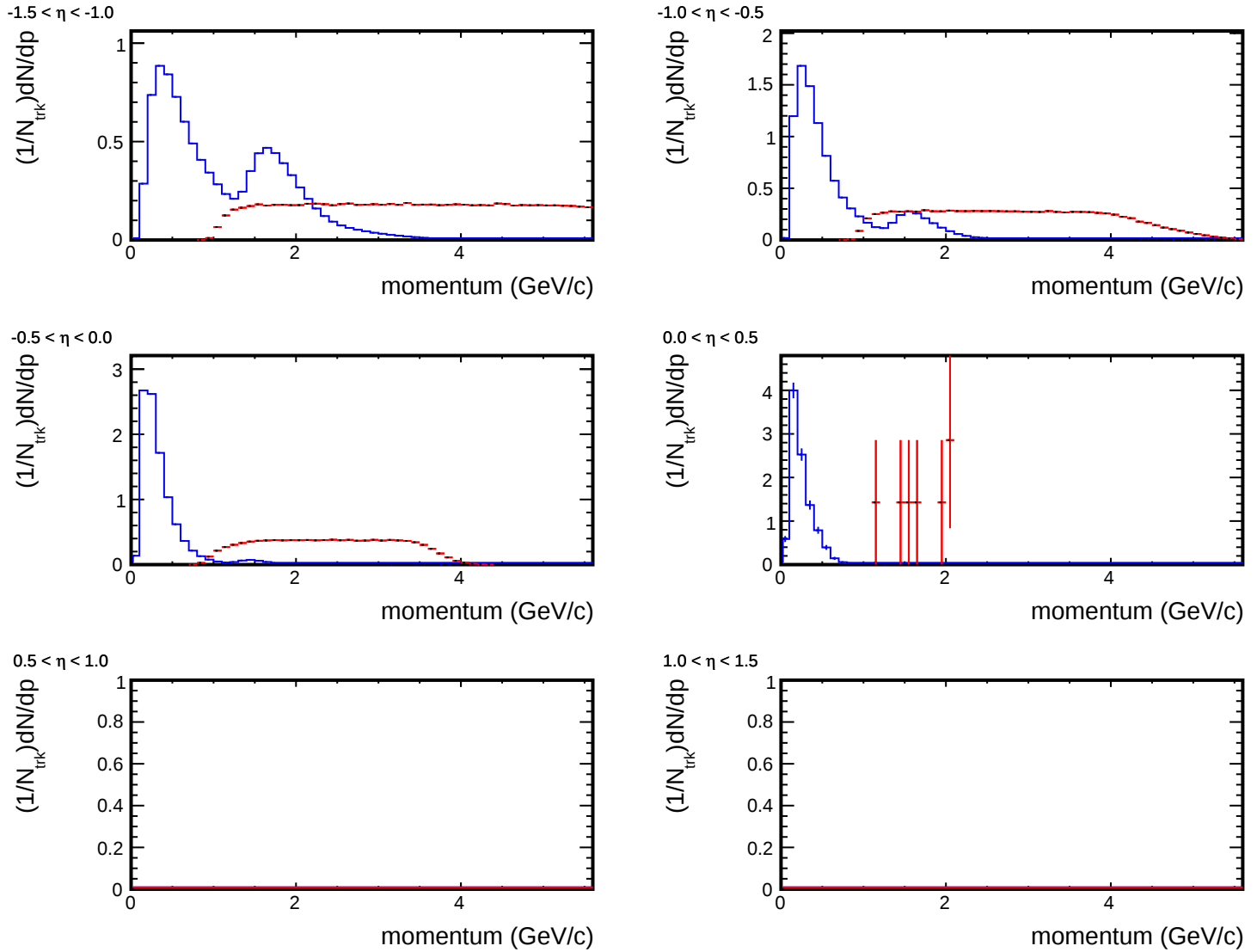
Projection of p for each η bin



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

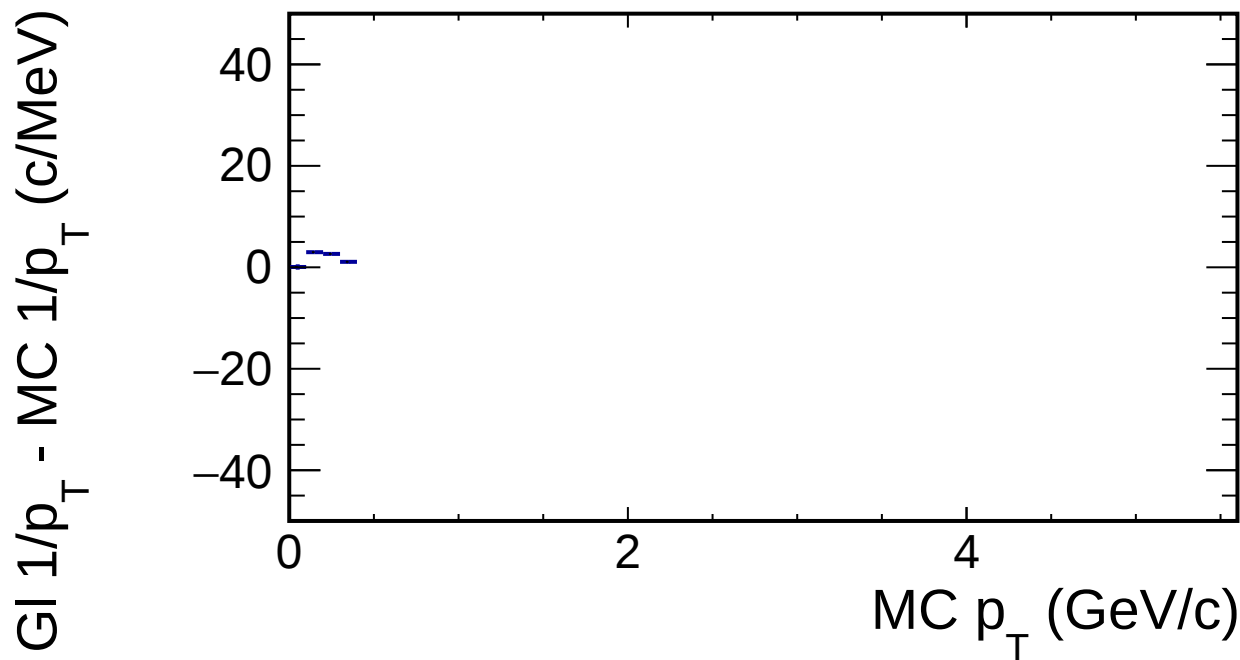
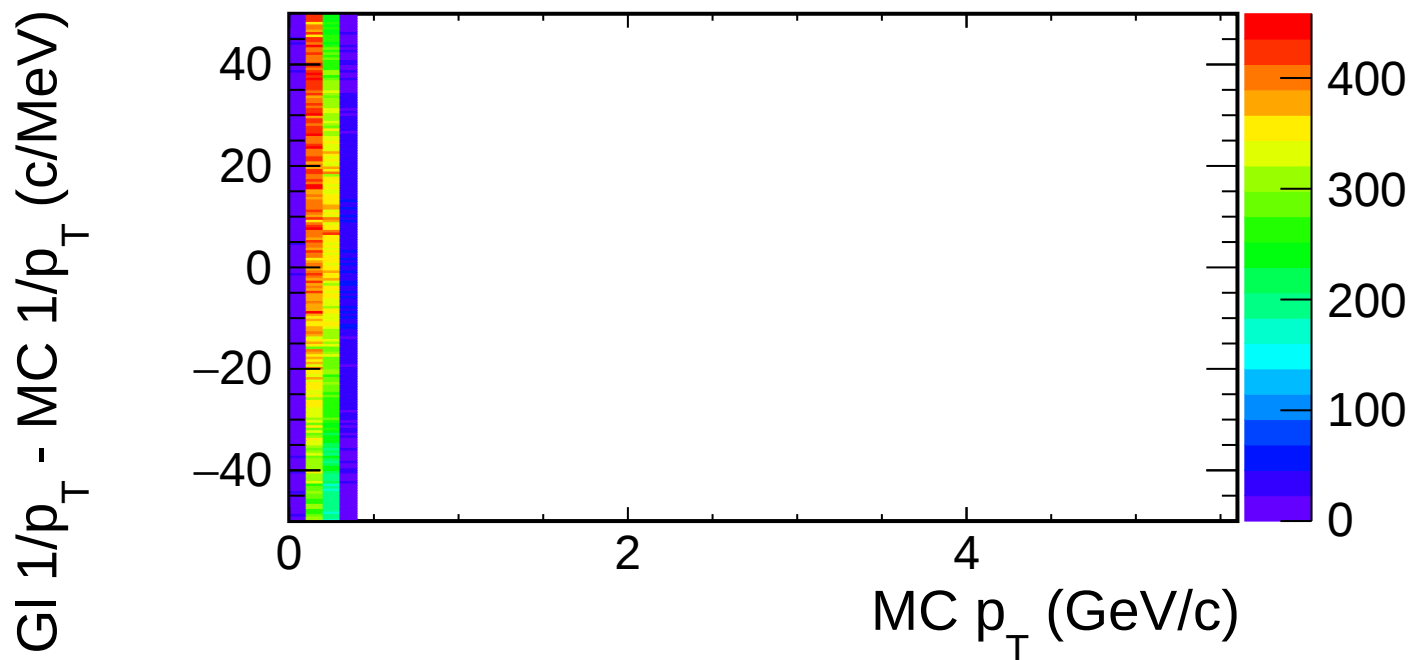
Projection of p for each η bin



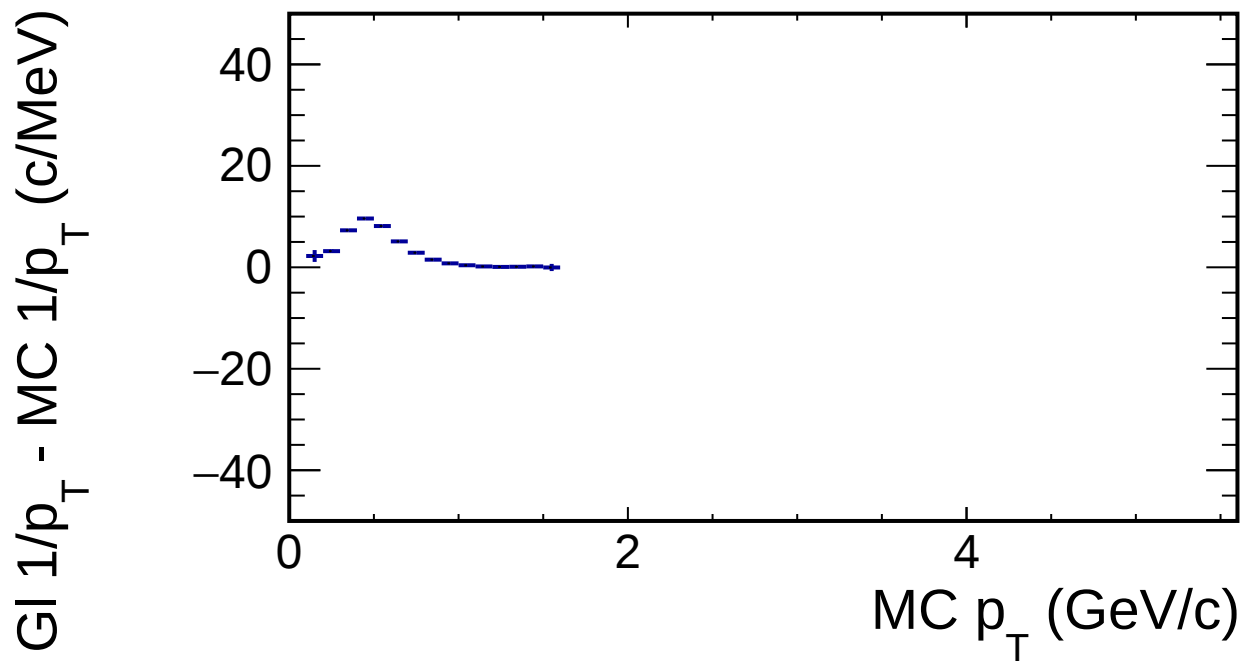
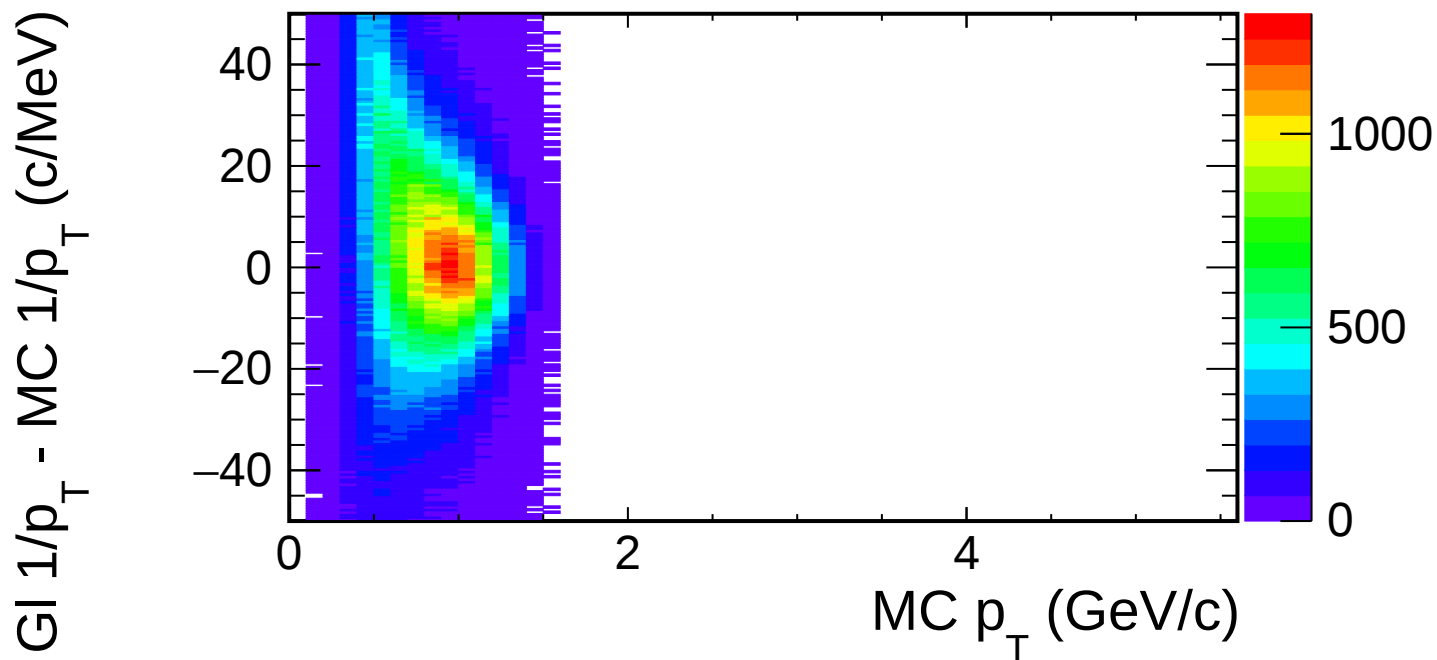
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

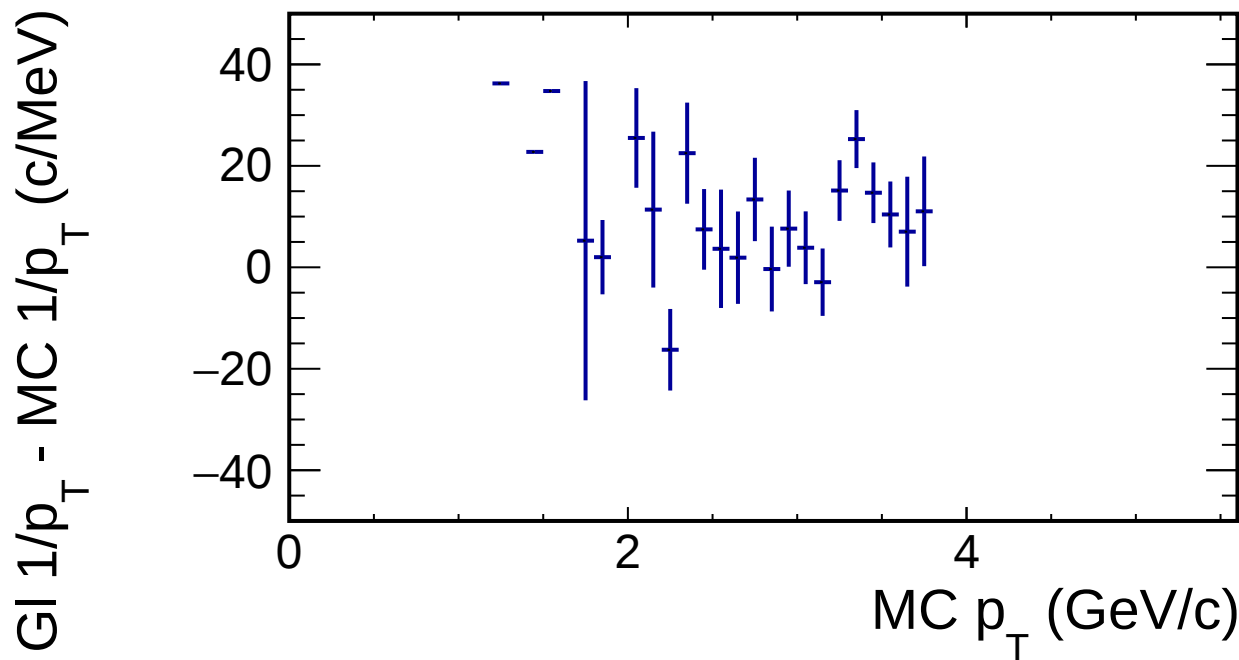
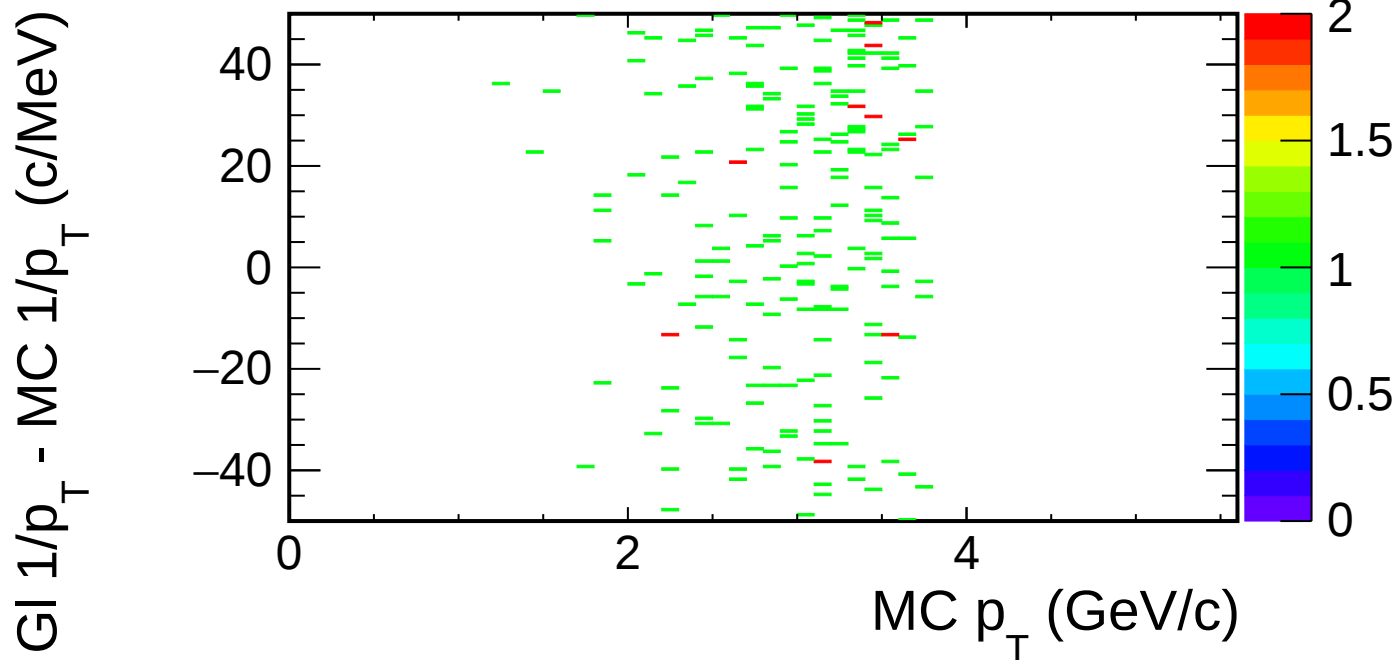
$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (pi-)



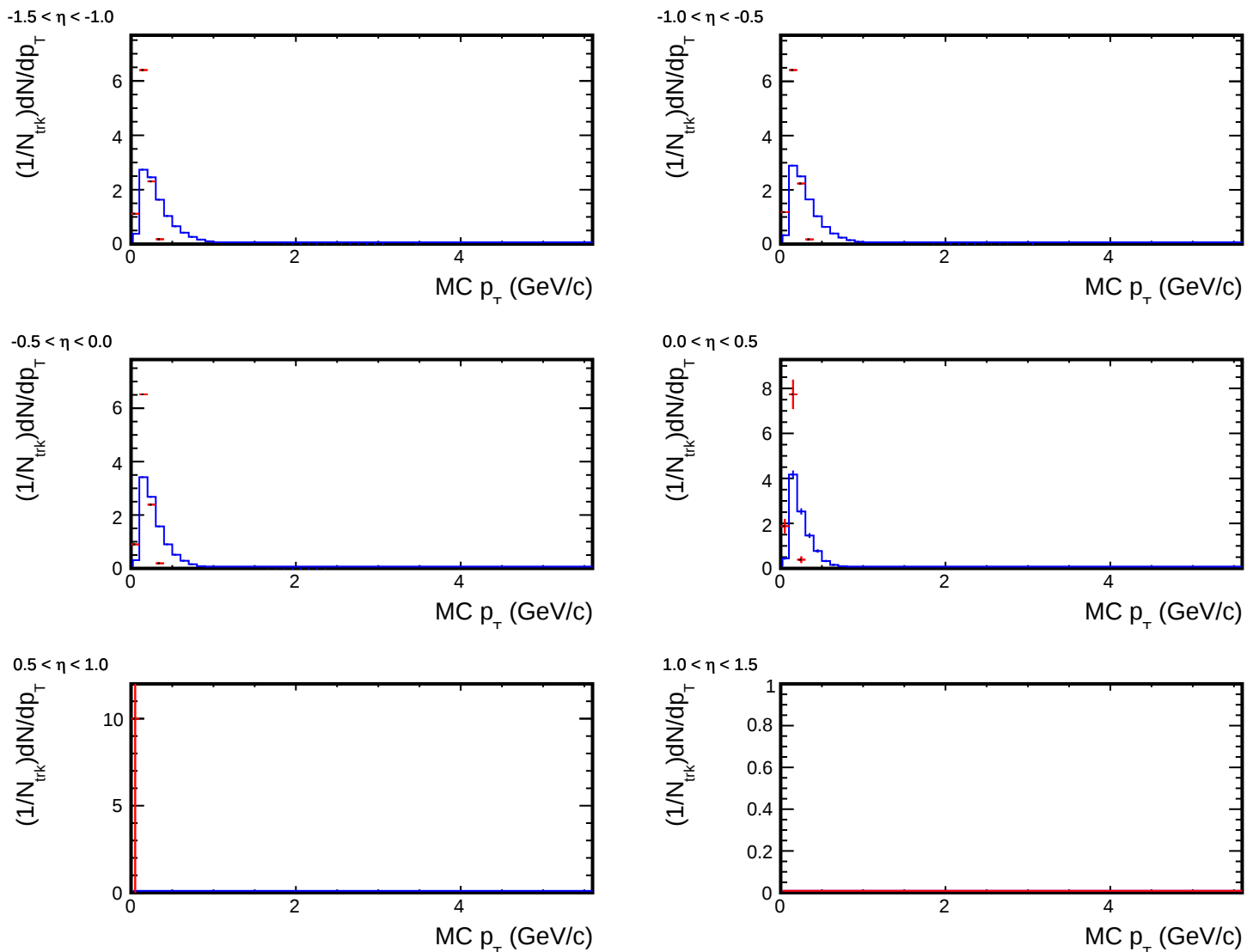
$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (proton)



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



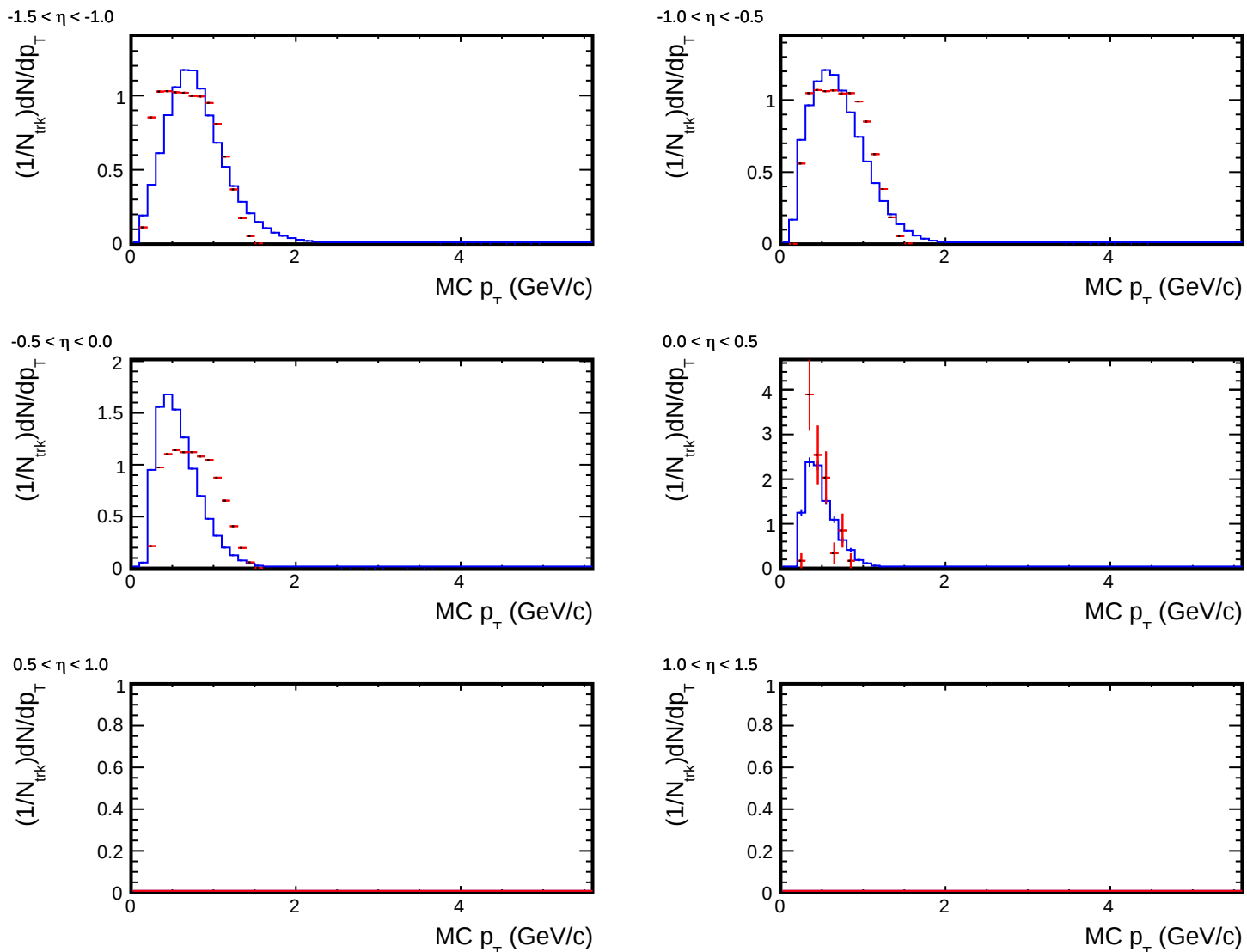
Projection of p_T for each η bin



— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

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

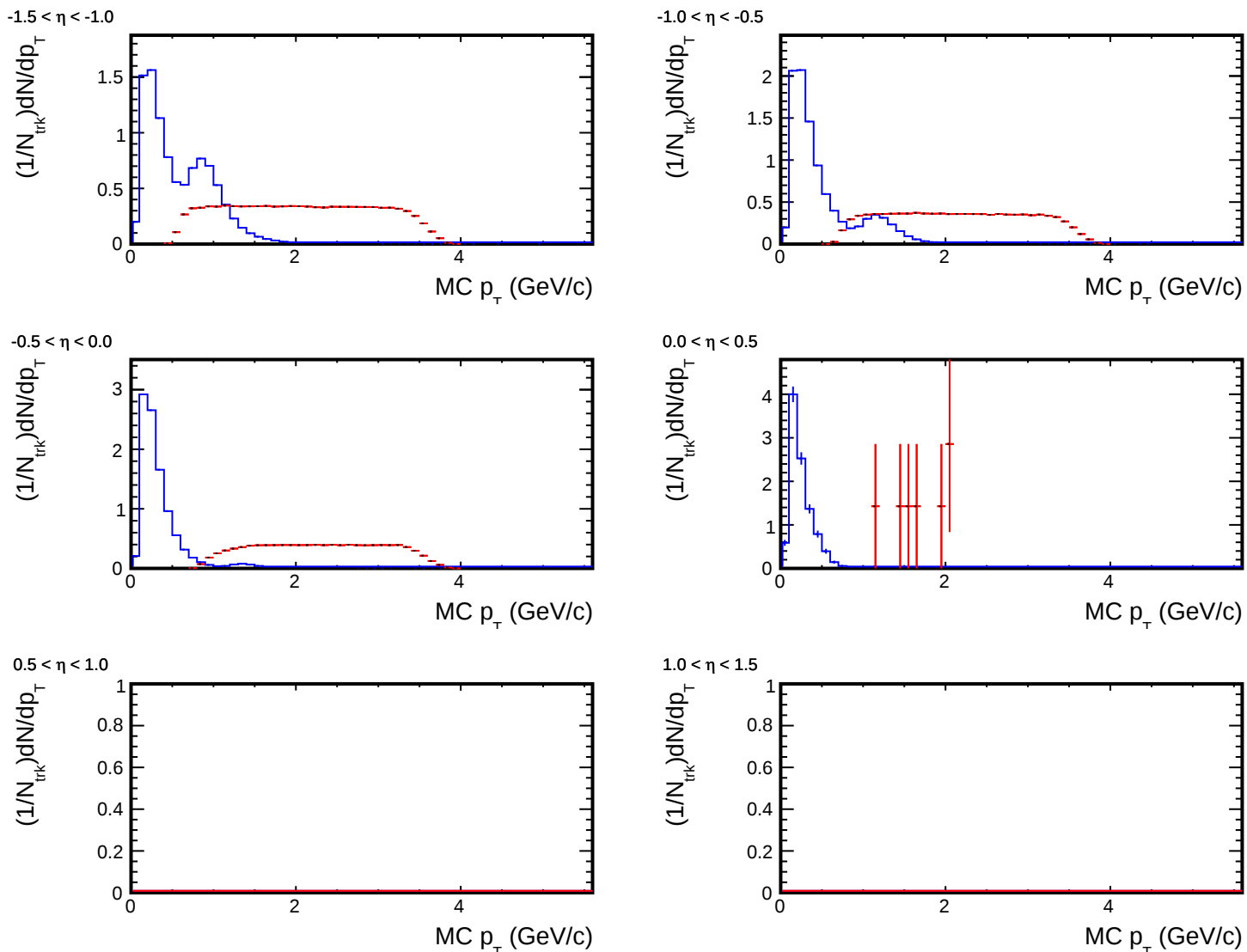
Projection of p_T for each η bin



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

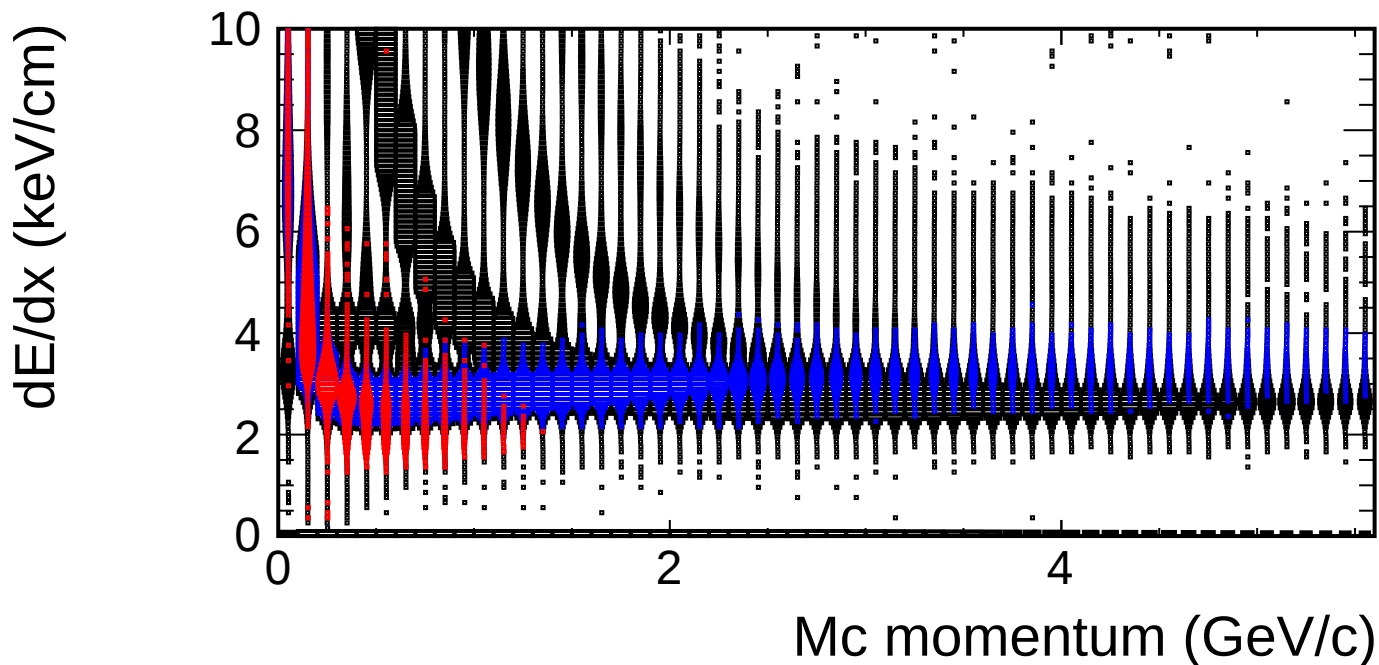
Projection of p_T for each η bin



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

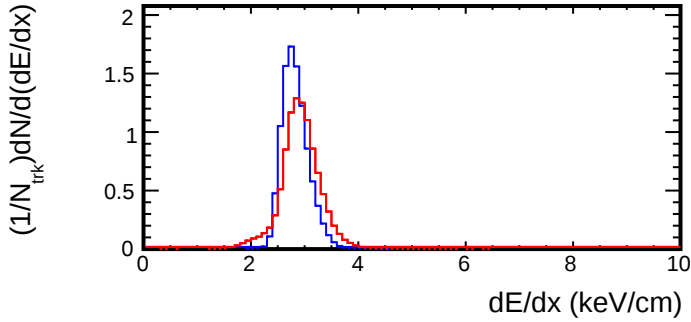
dE/dx vs momentum (Embedding:pi-, Real:pi-)



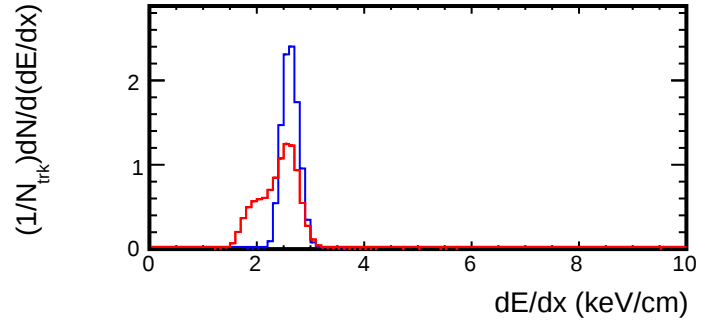
- Daughter π^- (from He4Lambda) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

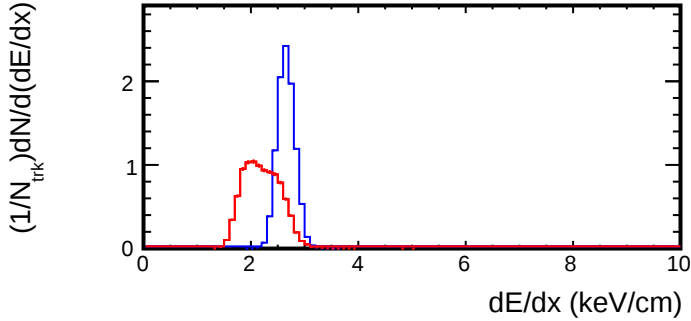
< Mc p < 0.4 GeV/c



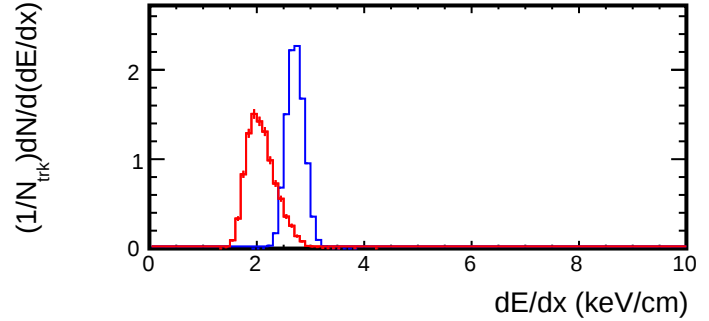
< Mc p < 0.6 GeV/c



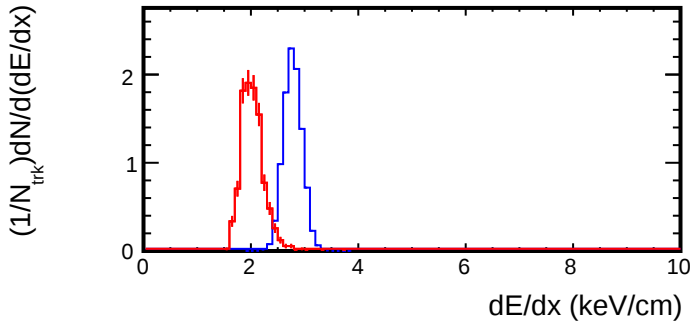
< Mc p < 0.8 GeV/c



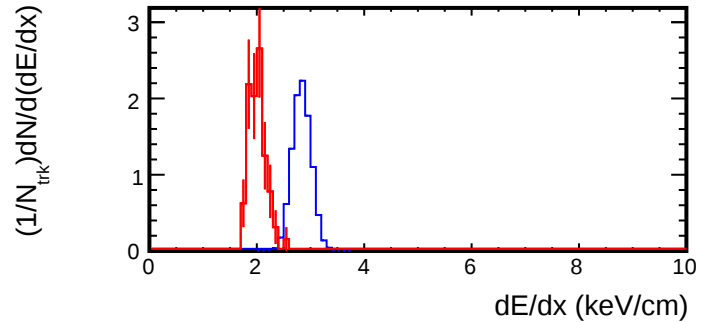
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

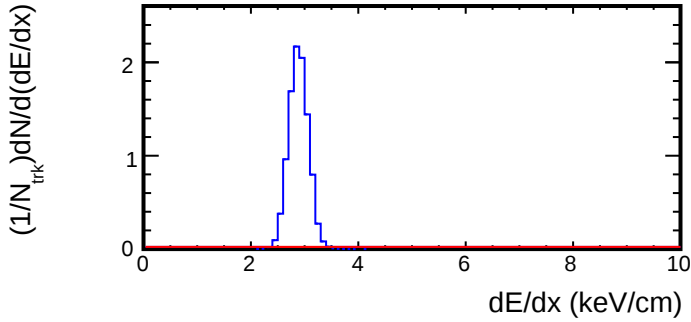


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

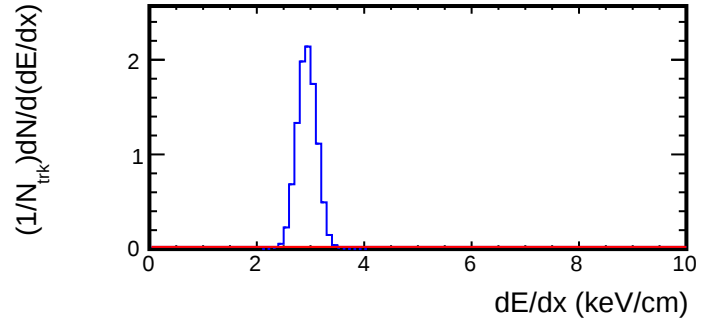
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

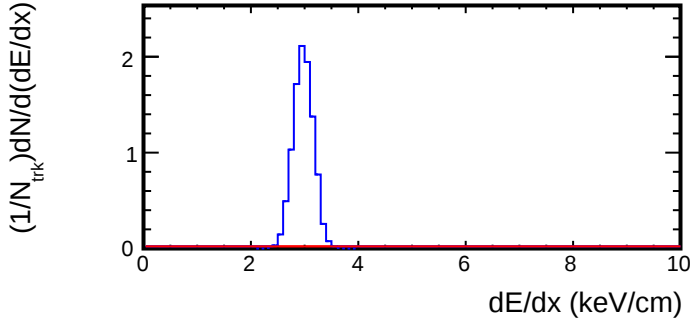
< Mc p < 1.6 GeV/c



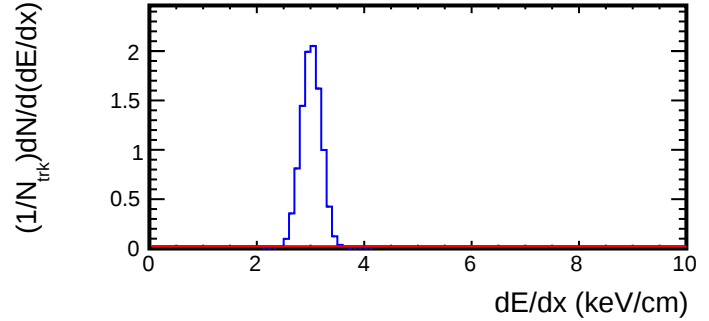
< Mc p < 1.8 GeV/c



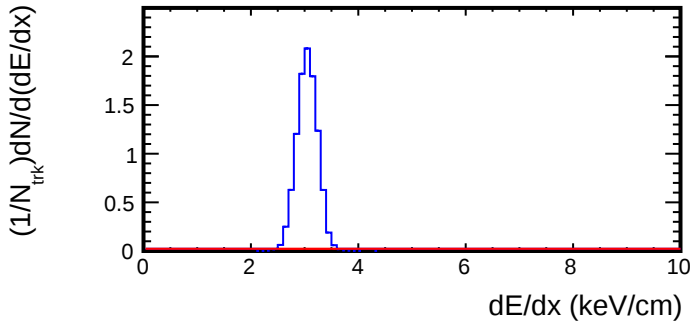
< Mc p < 2.0 GeV/c



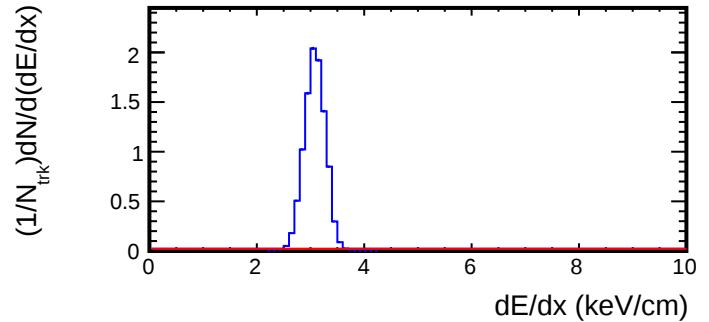
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

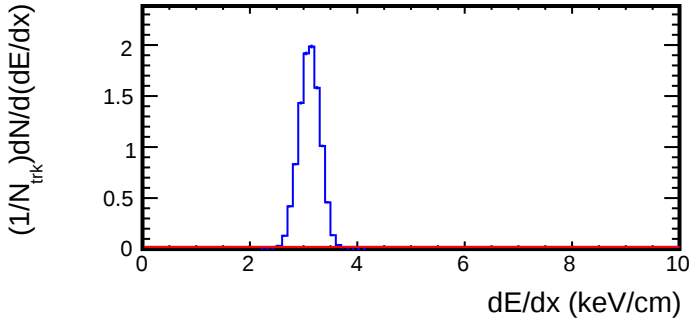


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

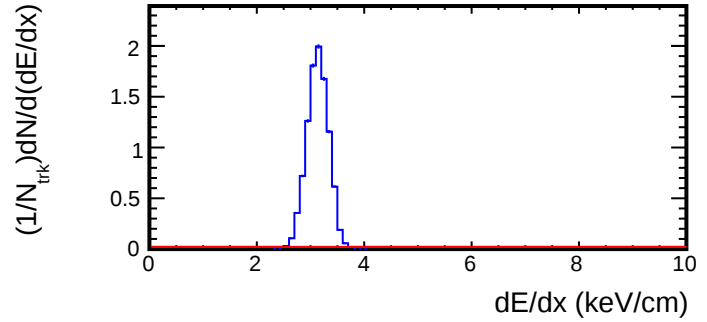
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

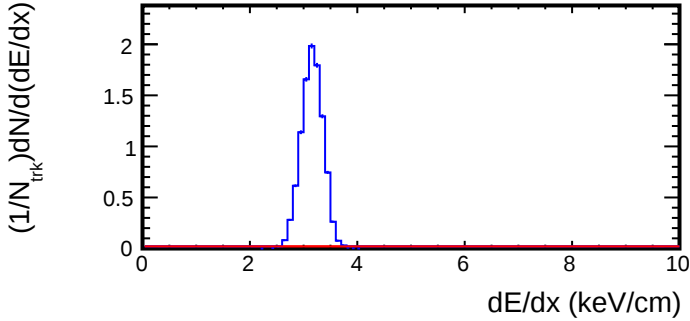
< Mc p < 2.8 GeV/c



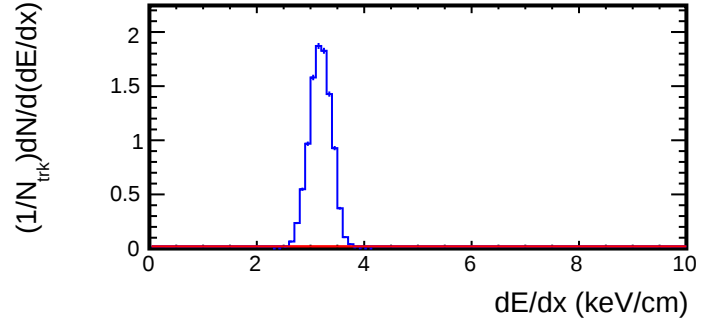
< Mc p < 3.0 GeV/c



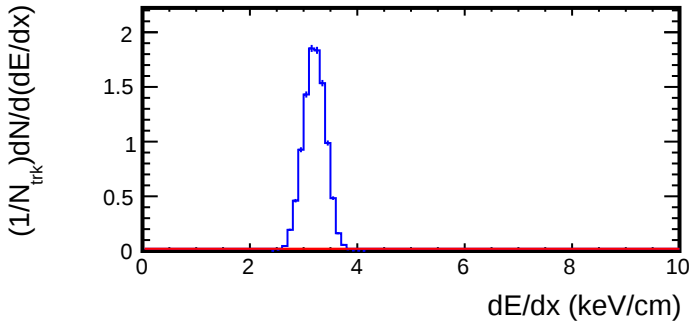
< Mc p < 3.2 GeV/c



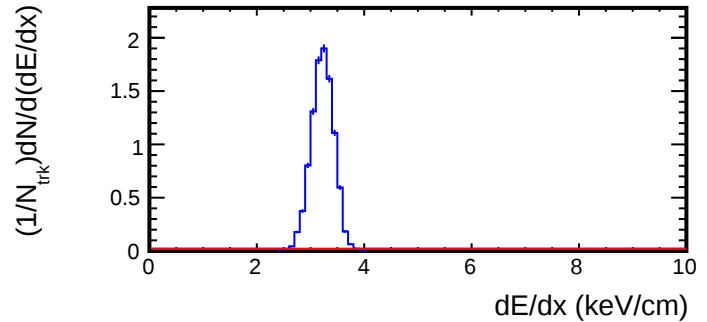
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

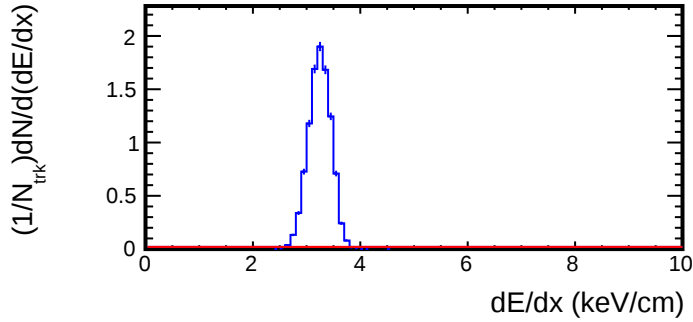


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

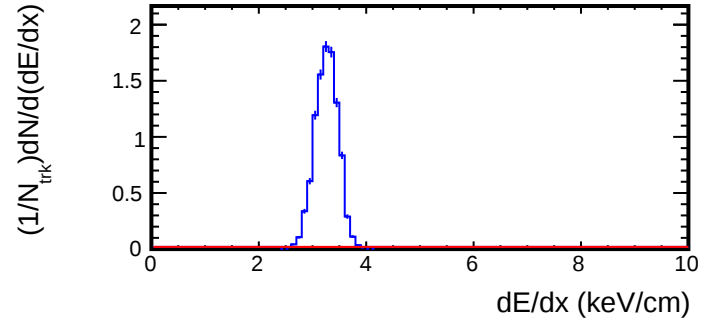
— pi-
(PRIMARY, $|n \sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

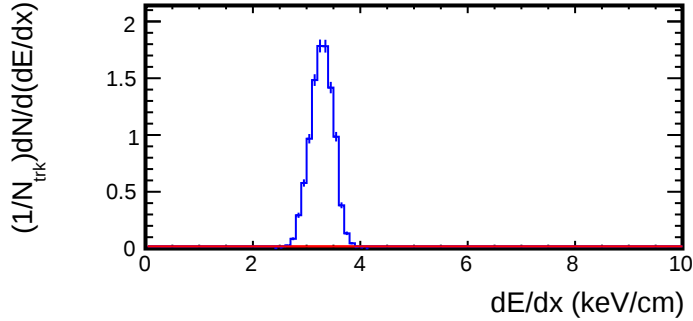
< Mc p < 4.0 GeV/c



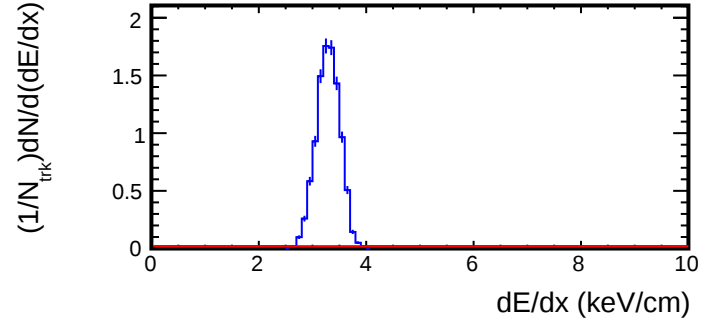
< Mc p < 4.2 GeV/c



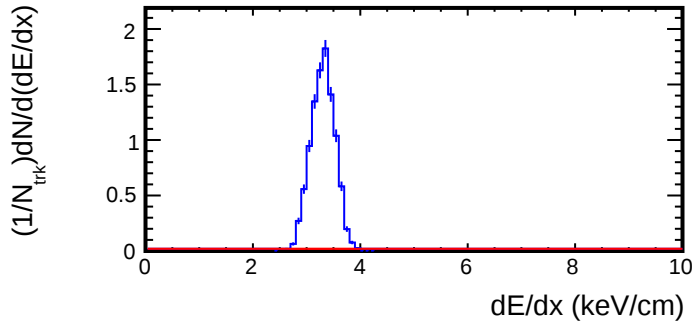
< Mc p < 4.4 GeV/c



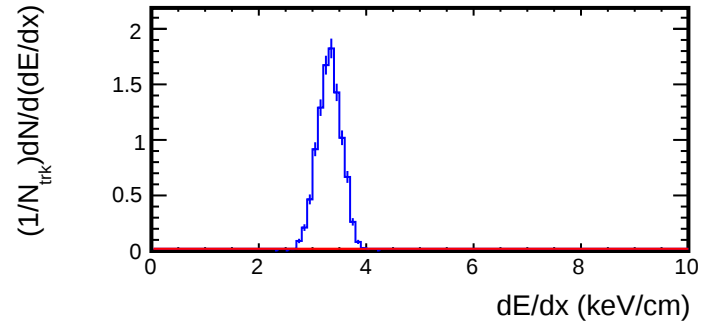
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



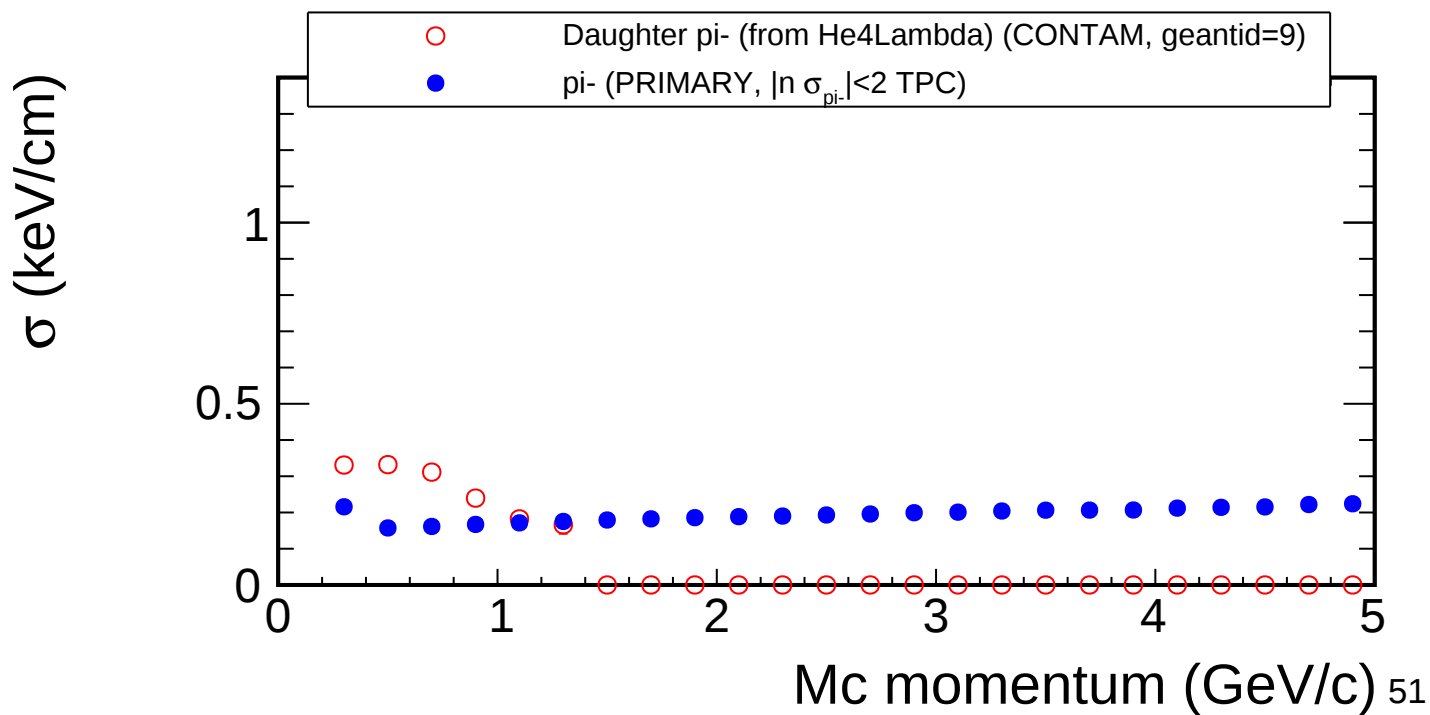
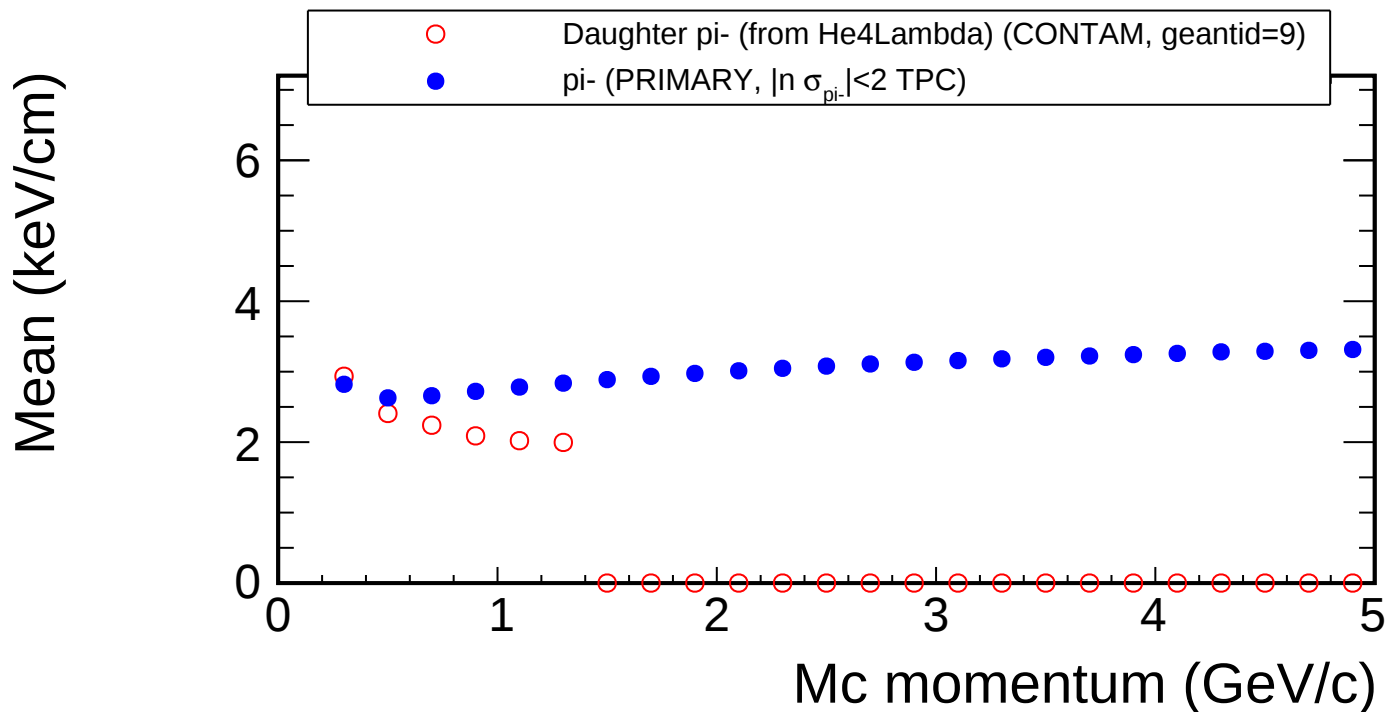
< Mc p < 5.0 GeV/c



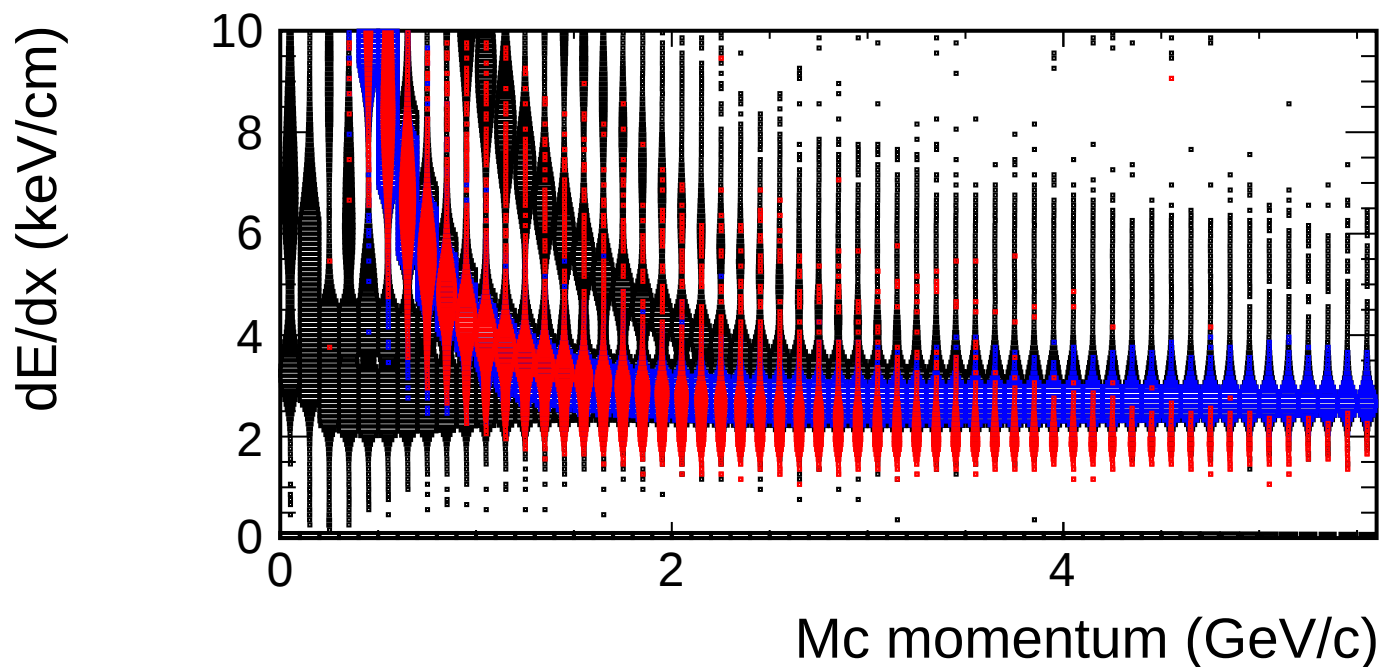
— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

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

Mean/ σ of dE/dx vs momentum



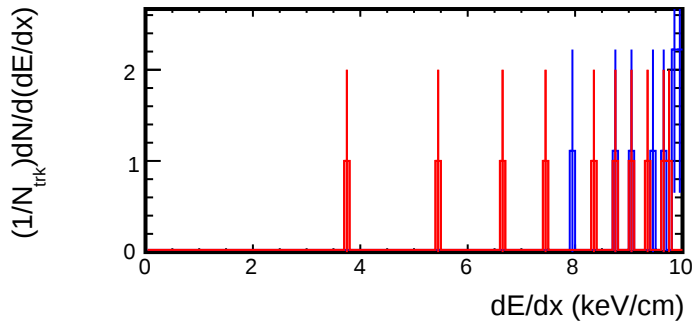
dE/dx vs momentum (Embedding:proton, Real:proton)



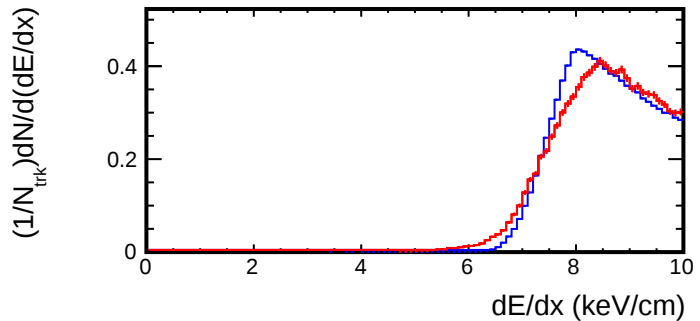
- Daughter proton (from He4Lambda) (CONTAM, geantid=14)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

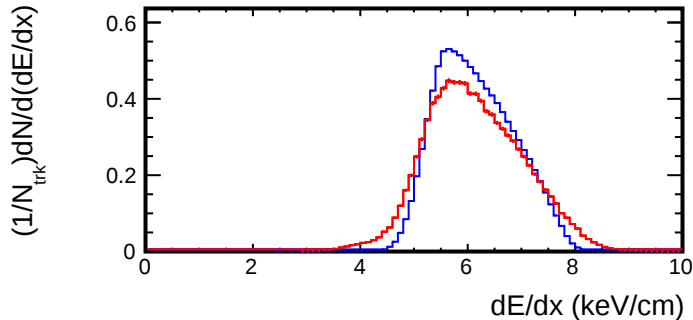
< Mc p < 0.4 GeV/c



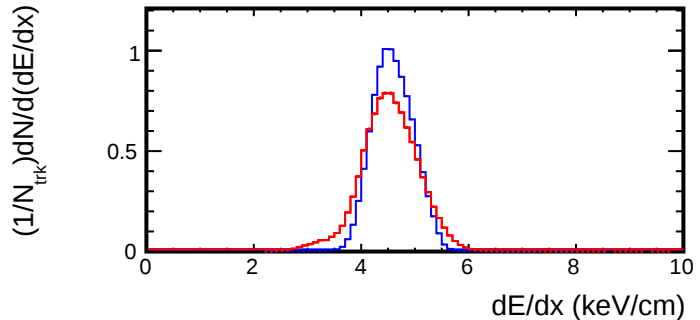
< Mc p < 0.6 GeV/c



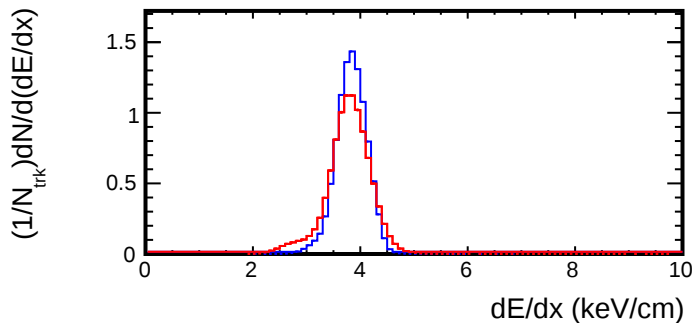
< Mc p < 0.8 GeV/c



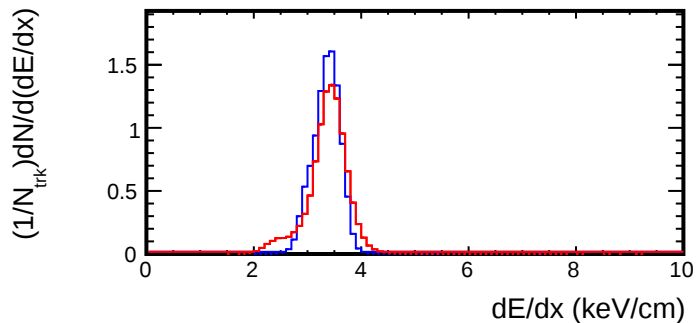
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

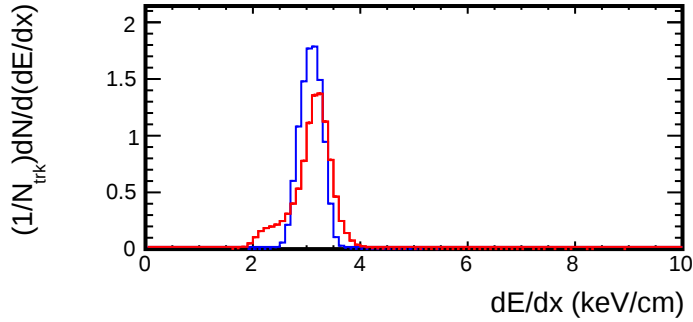


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

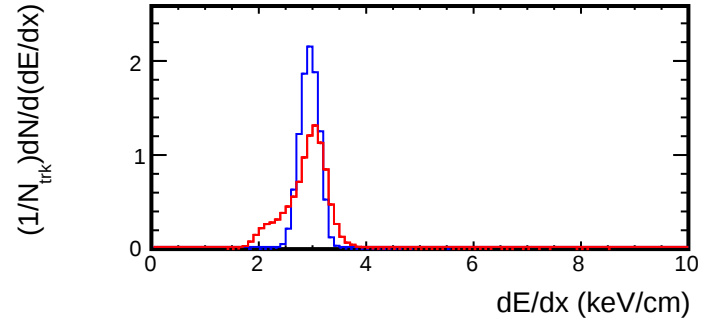
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

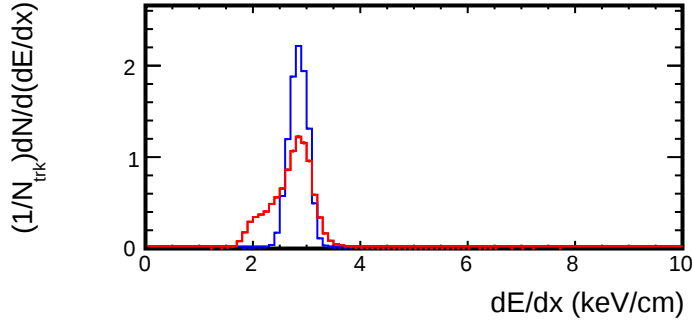
< Mc p < 1.6 GeV/c



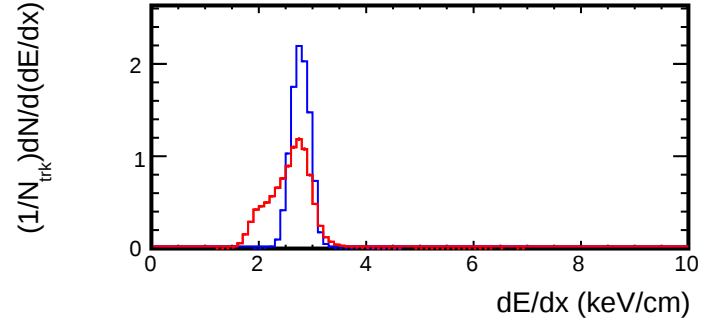
< Mc p < 1.8 GeV/c



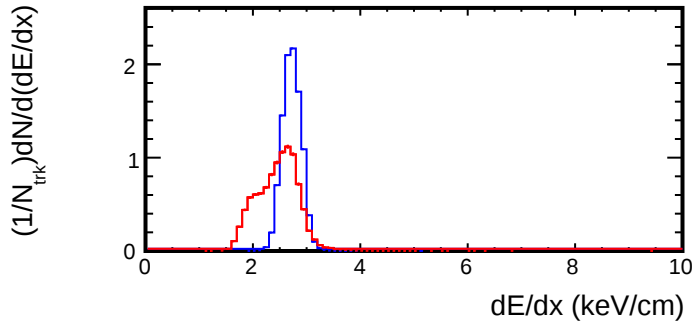
< Mc p < 2.0 GeV/c



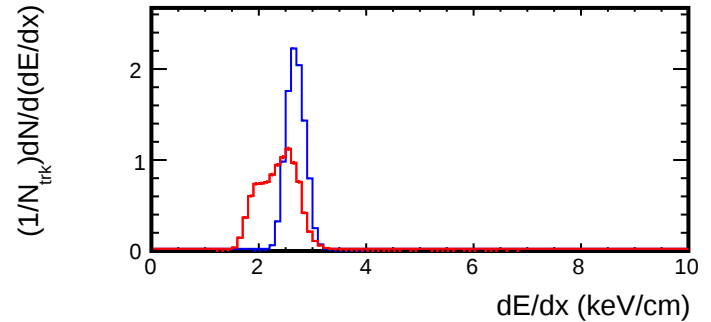
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

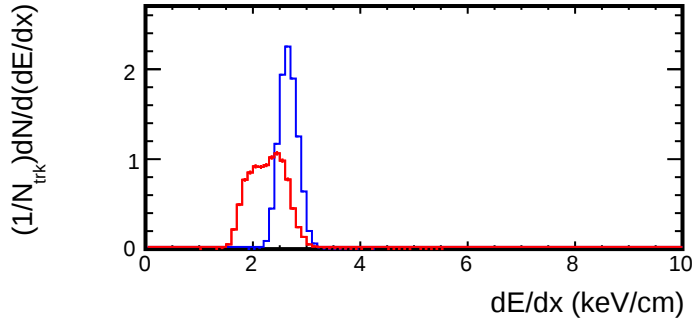


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

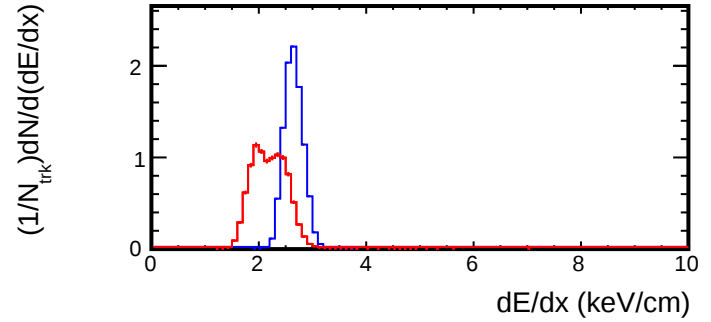
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

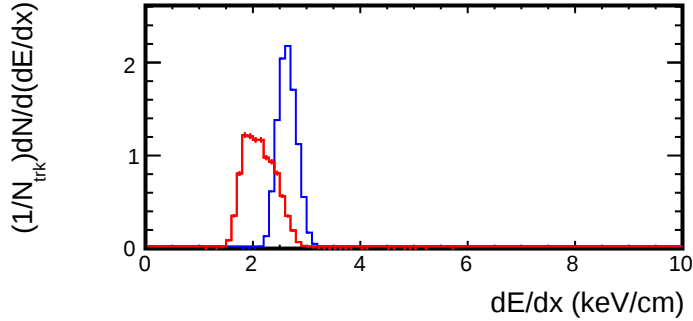
< Mc p < 2.8 GeV/c



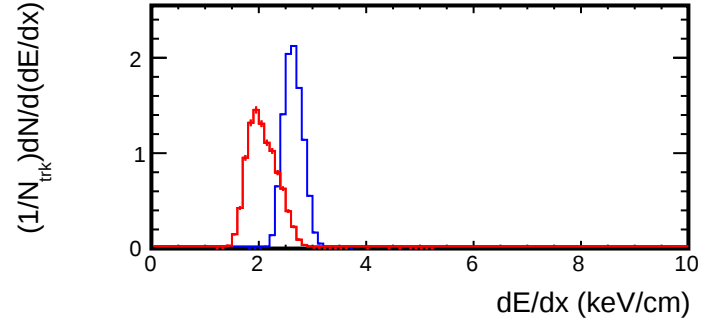
< Mc p < 3.0 GeV/c



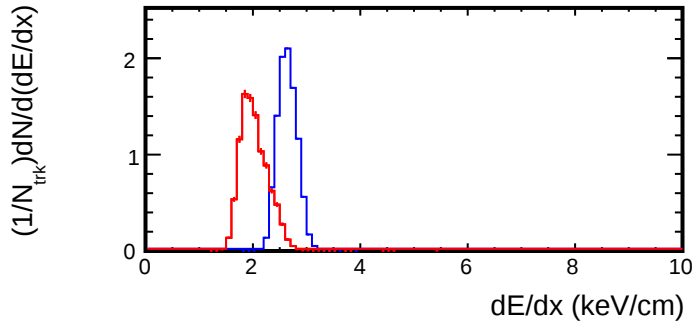
< Mc p < 3.2 GeV/c



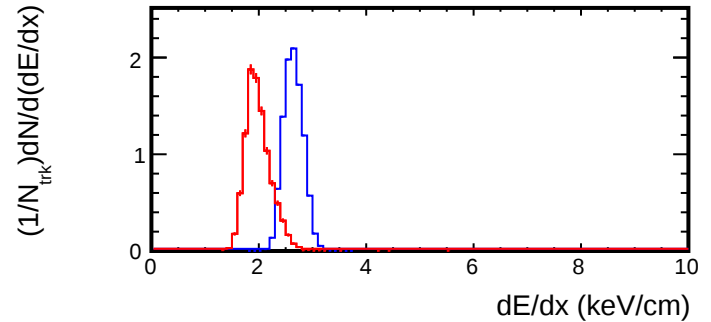
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

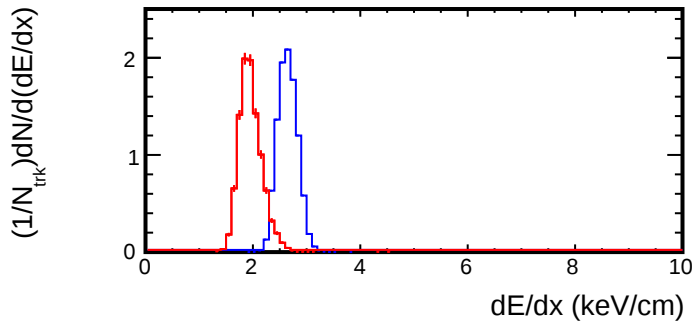


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

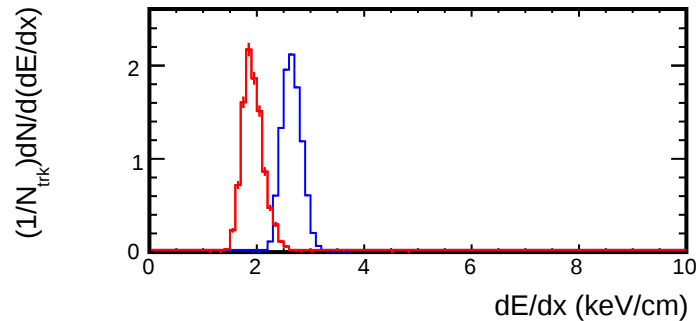
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Projection of dE/dx for each p bin

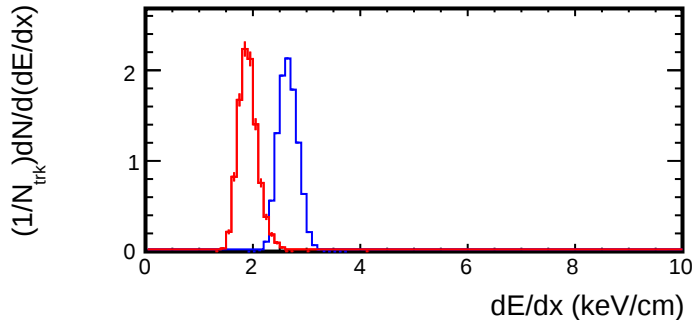
< Mc p < 4.0 GeV/c



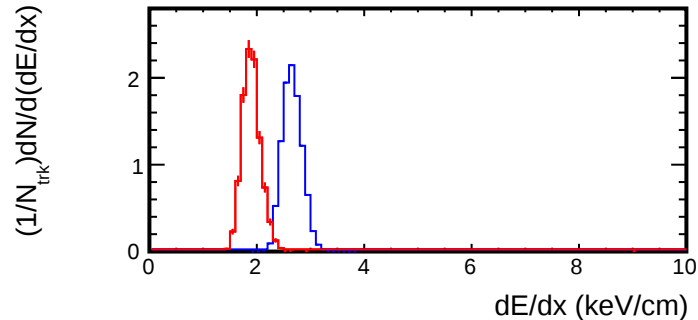
< Mc p < 4.2 GeV/c



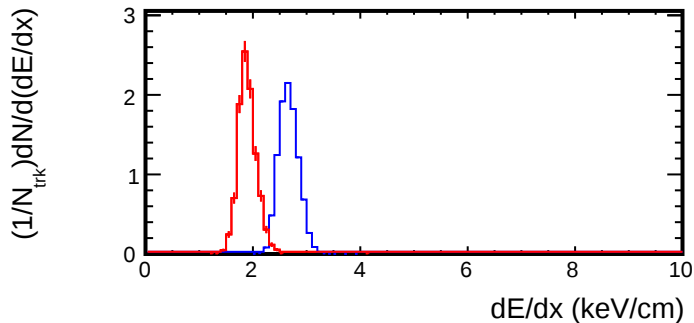
< Mc p < 4.4 GeV/c



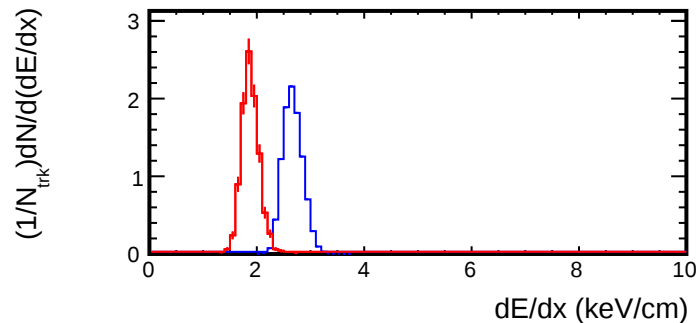
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



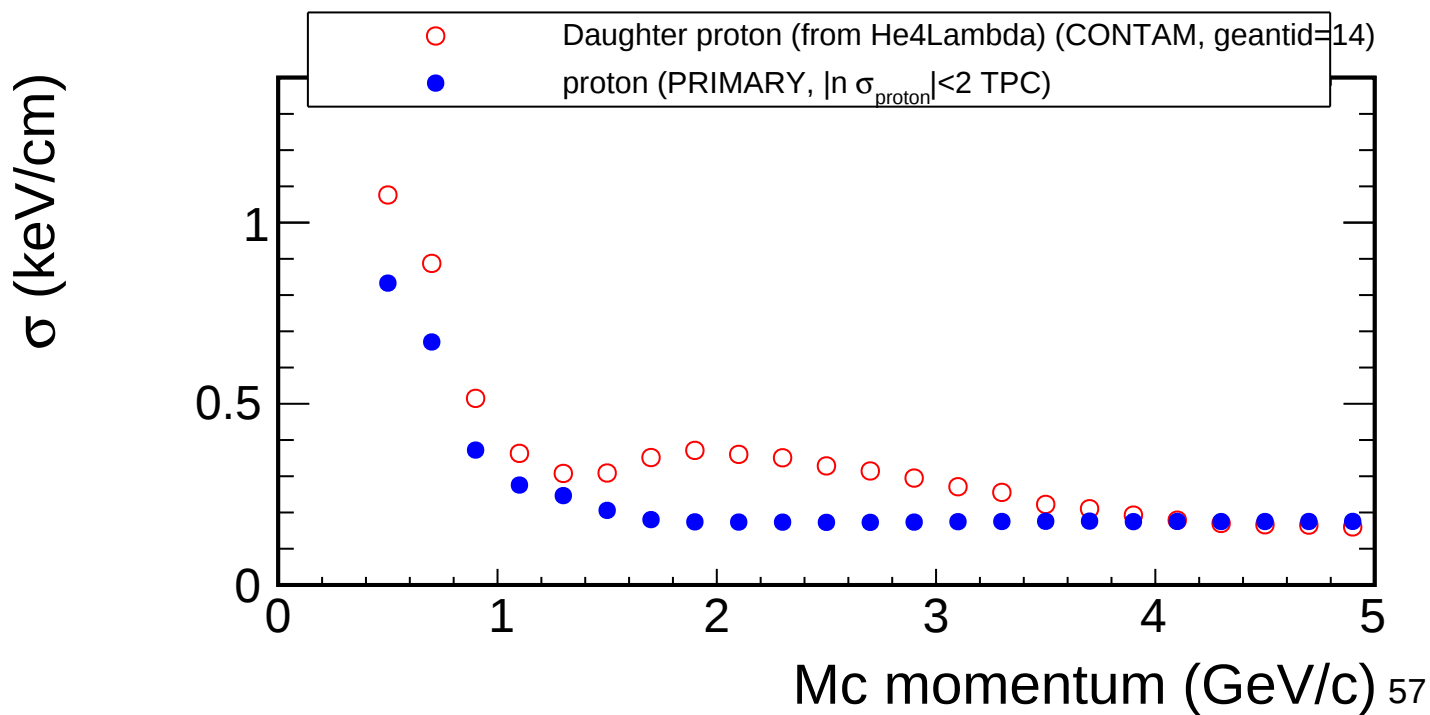
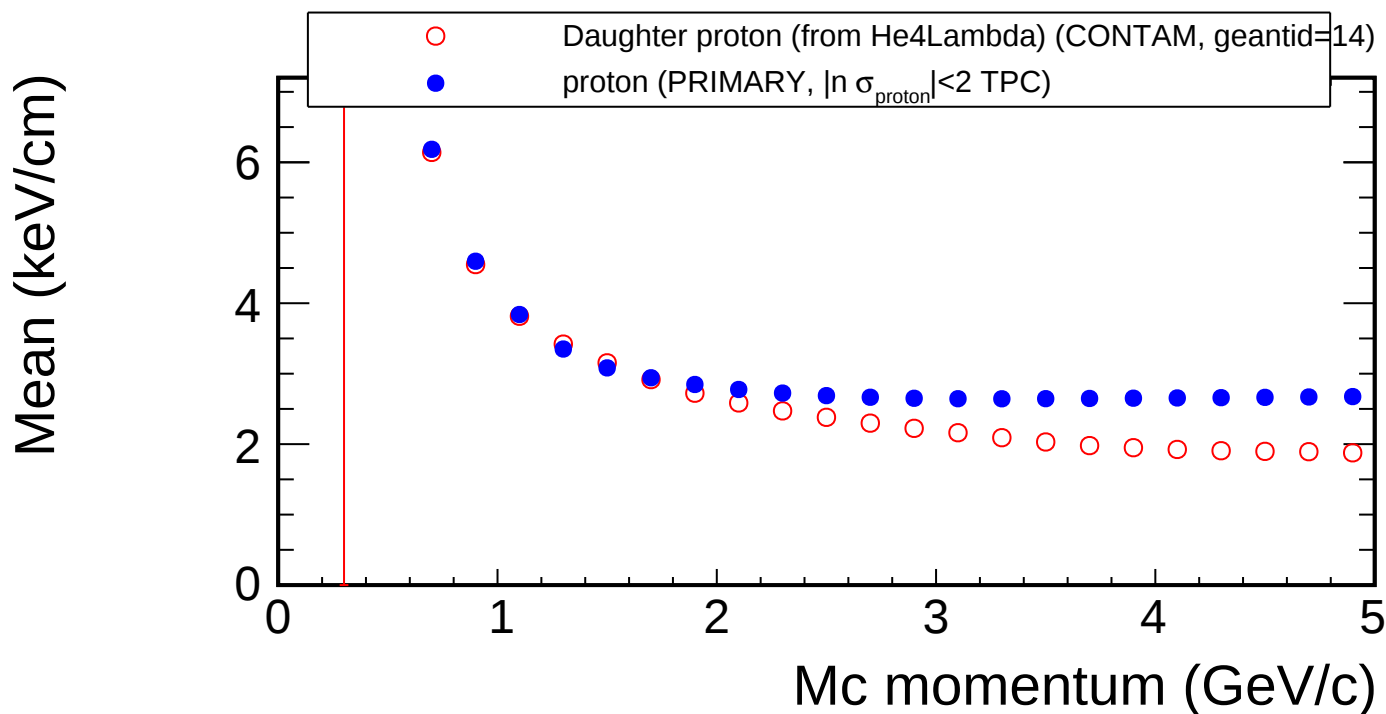
< Mc p < 5.0 GeV/c



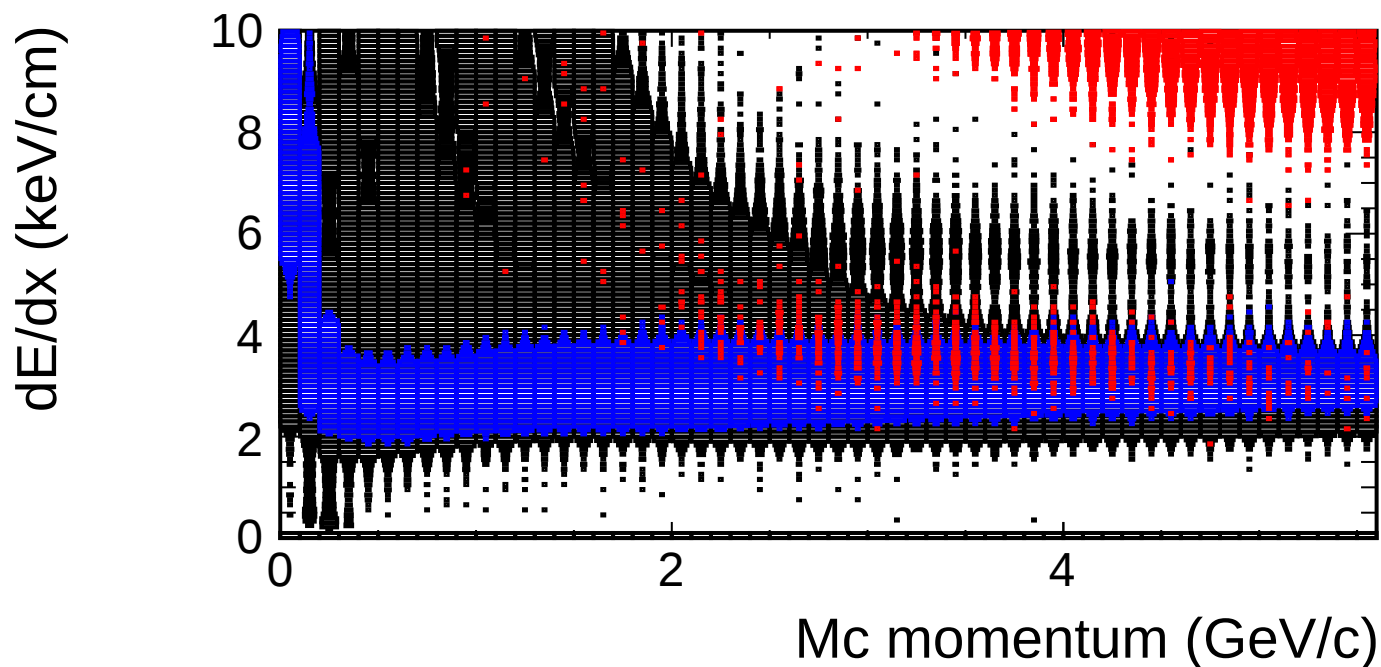
— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

Mean/ σ of dE/dx vs momentum



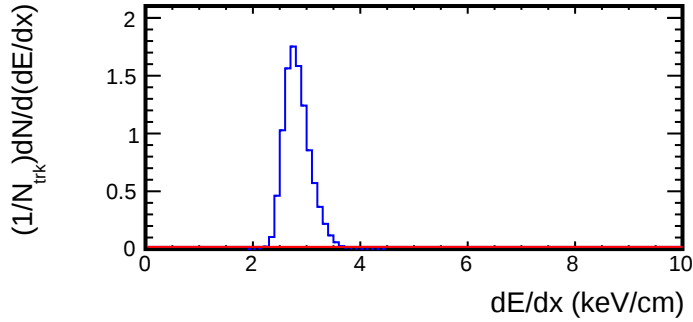
dE/dx vs momentum (Embedding:He3, Real:He3)



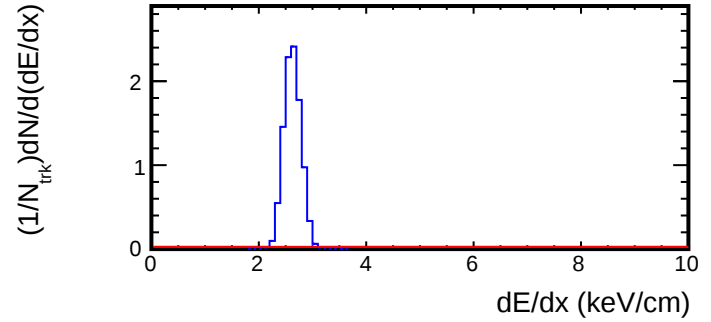
- Daughter He3 (from He4Lambda) (CONTAM, geantid=49)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

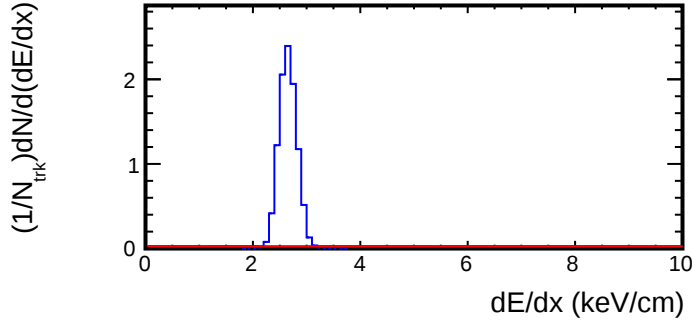
< Mc p < 0.4 GeV/c



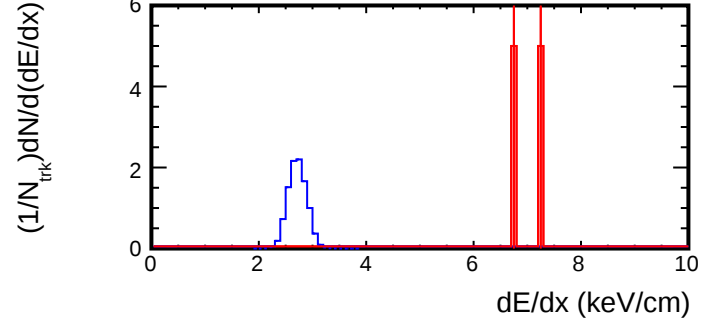
< Mc p < 0.6 GeV/c



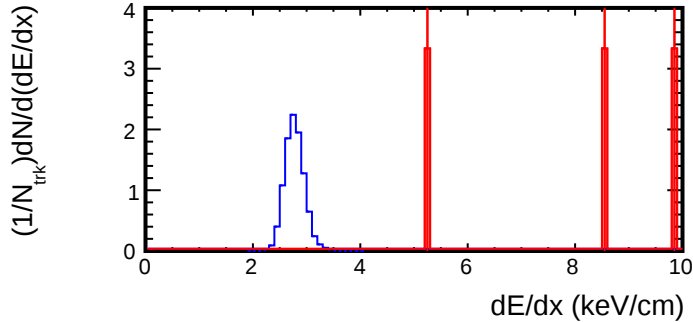
< Mc p < 0.8 GeV/c



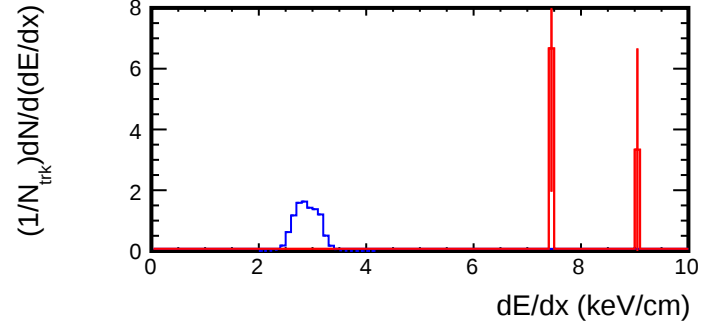
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

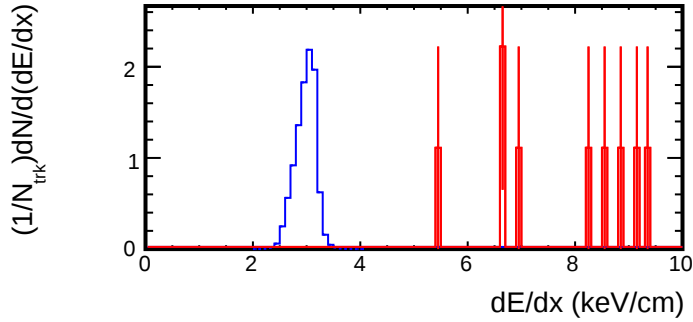


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

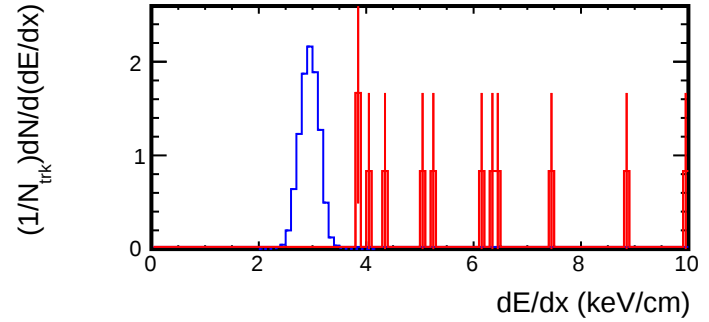
— pi+
(PRIMARY, $|n\sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

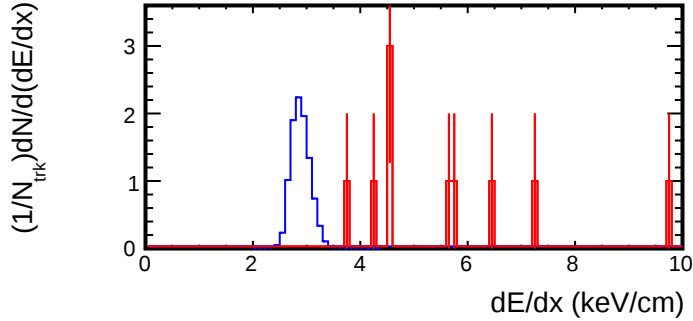
< Mc p < 1.6 GeV/c



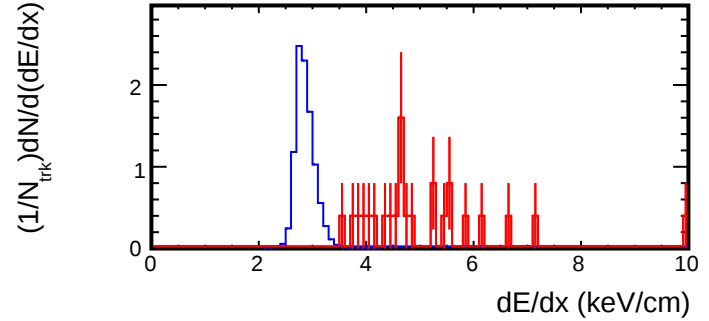
< Mc p < 1.8 GeV/c



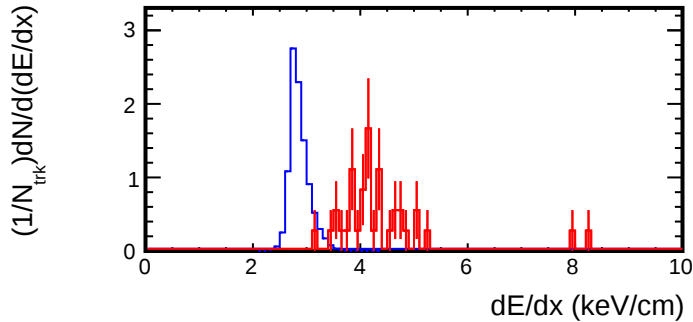
< Mc p < 2.0 GeV/c



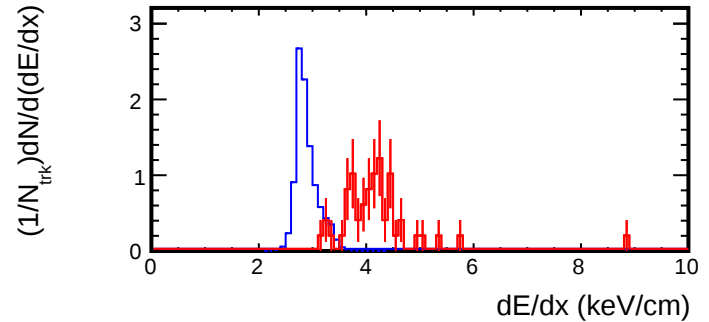
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

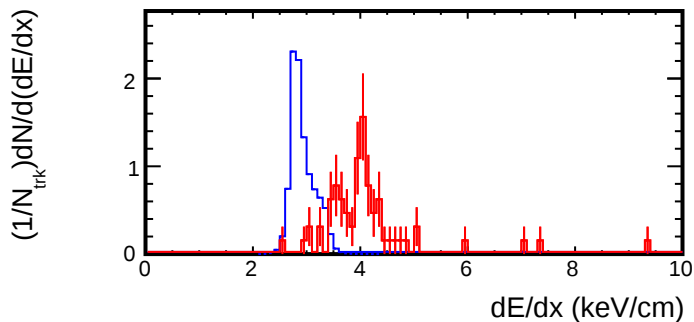


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

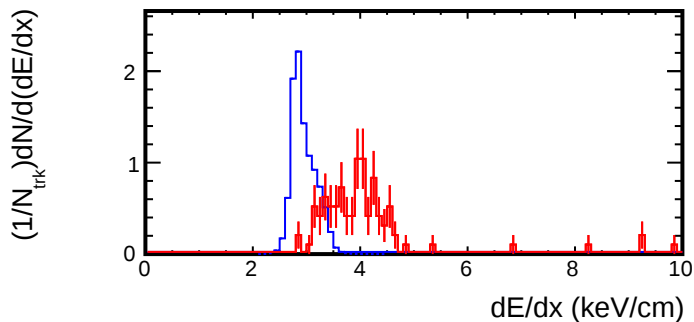
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

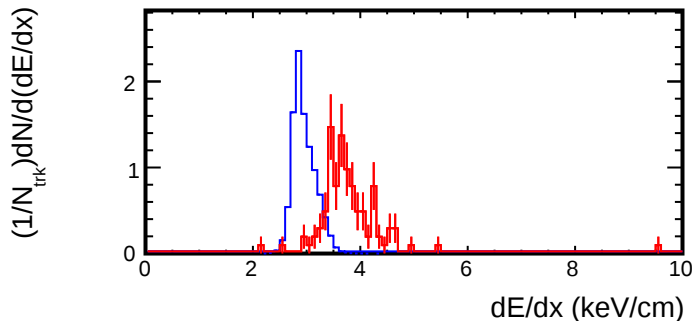
< Mc p < 2.8 GeV/c



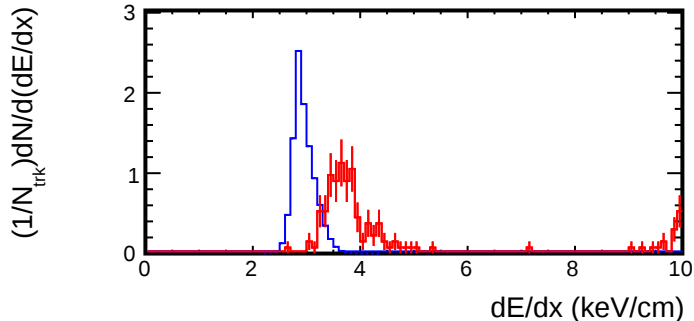
< Mc p < 3.0 GeV/c



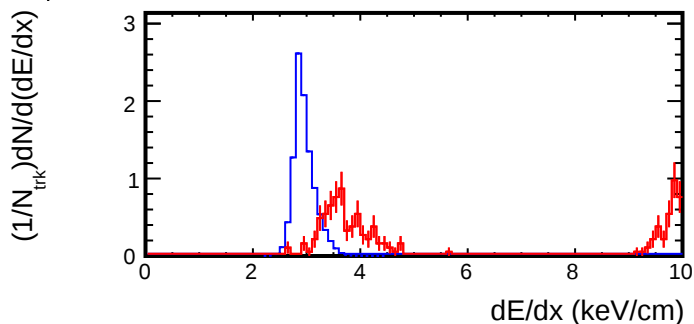
< Mc p < 3.2 GeV/c



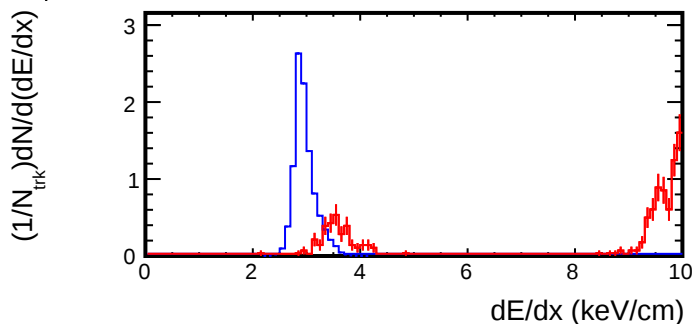
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



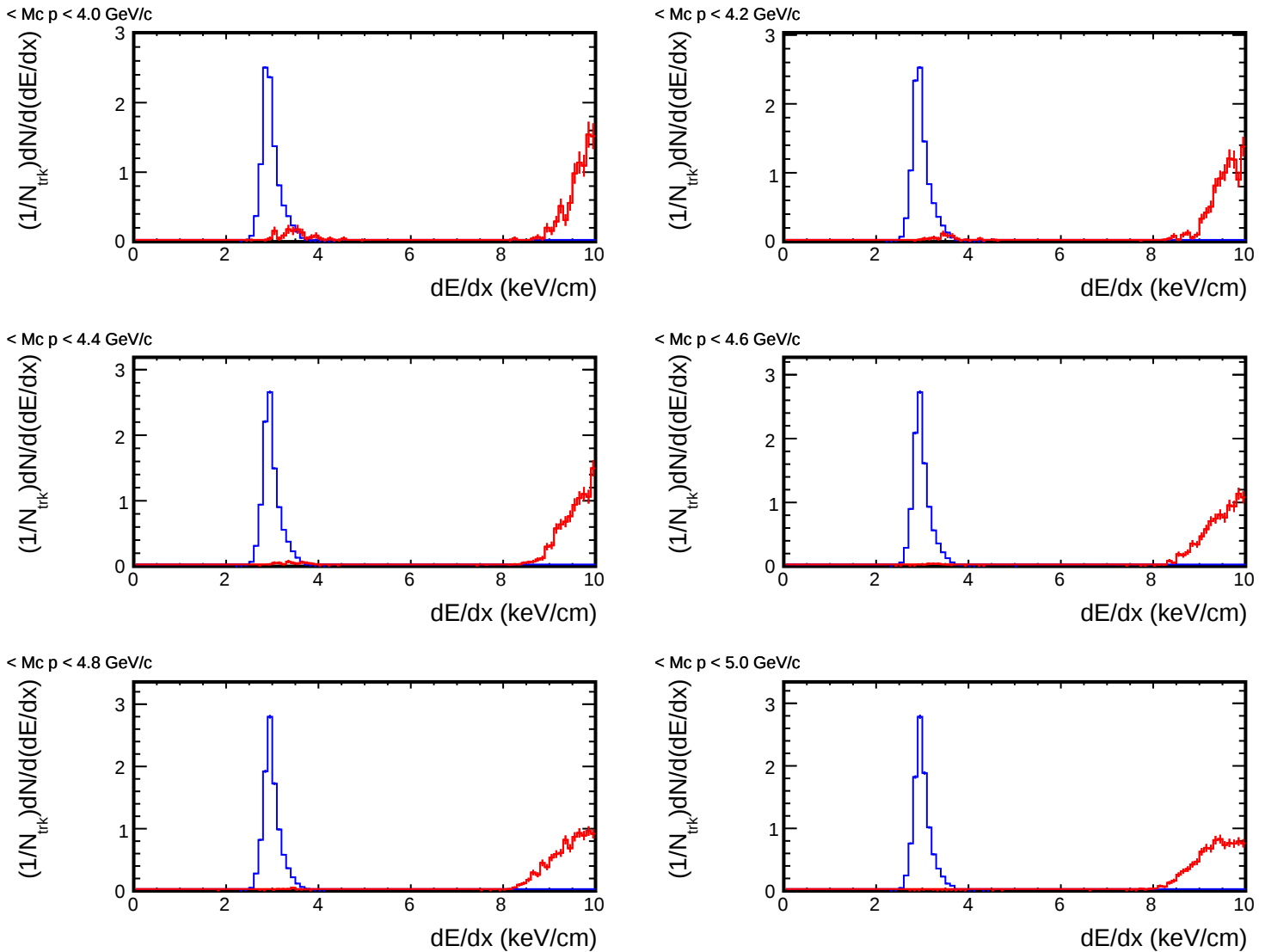
< Mc p < 3.8 GeV/c



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

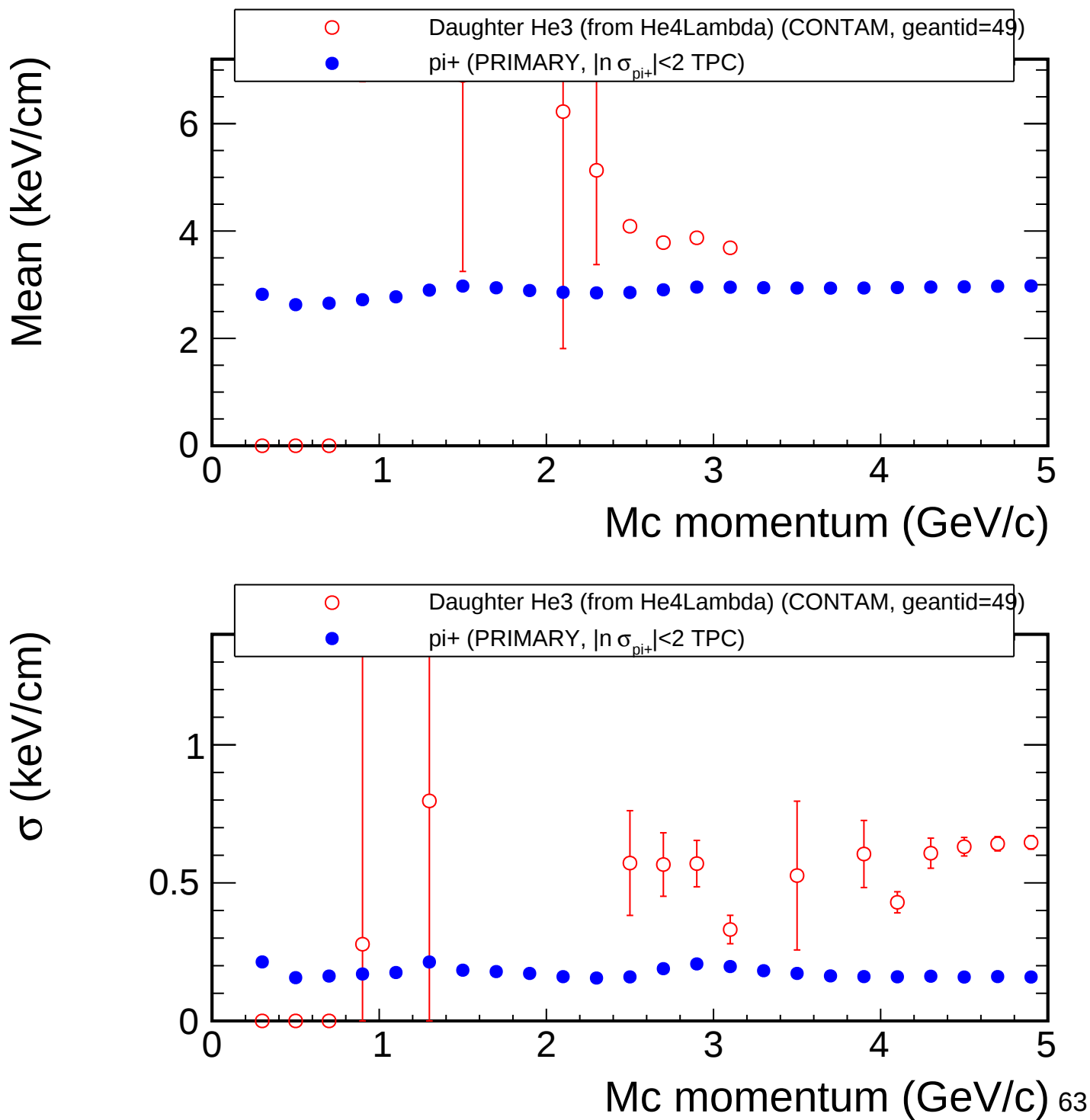
Projection of dE/dx for each p bin



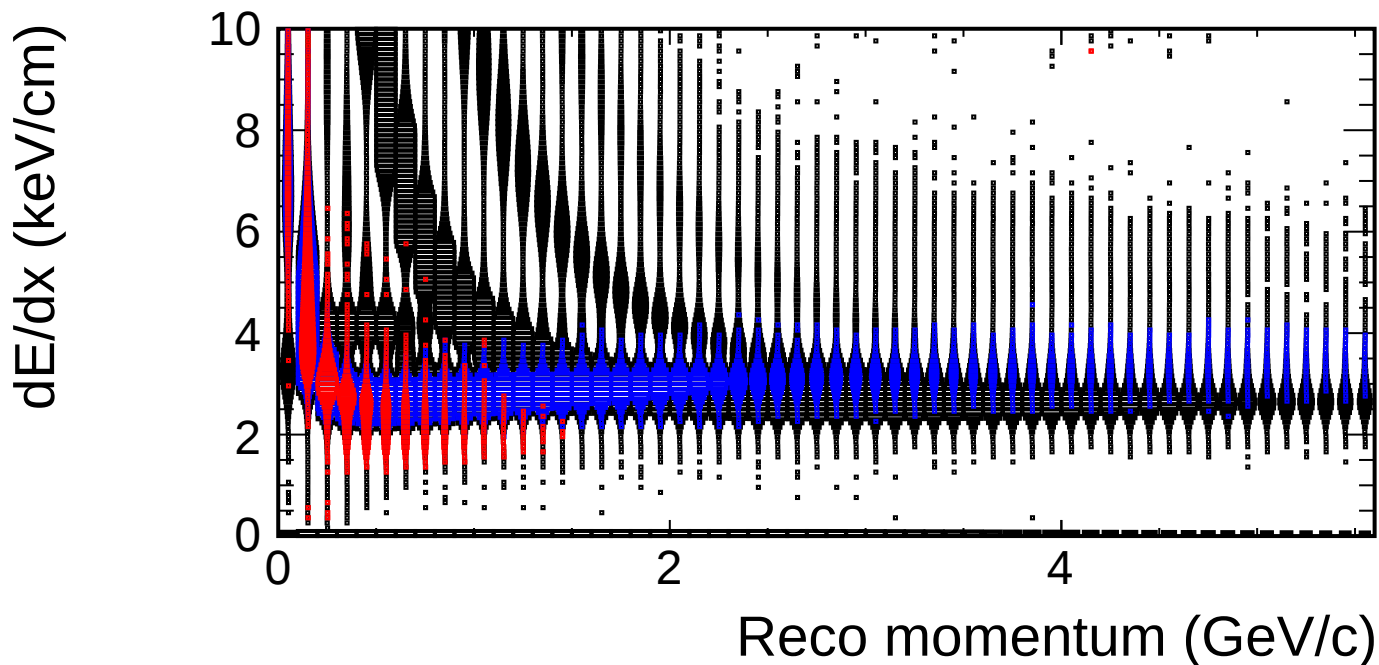
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

Mean/ σ of dE/dx vs momentum



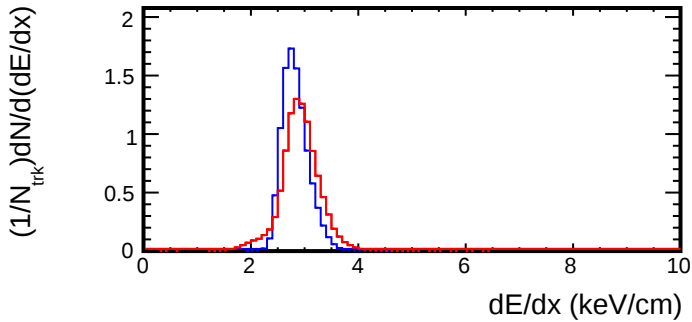
dE/dx vs momentum (Embedding:pi-, Real:pi-)



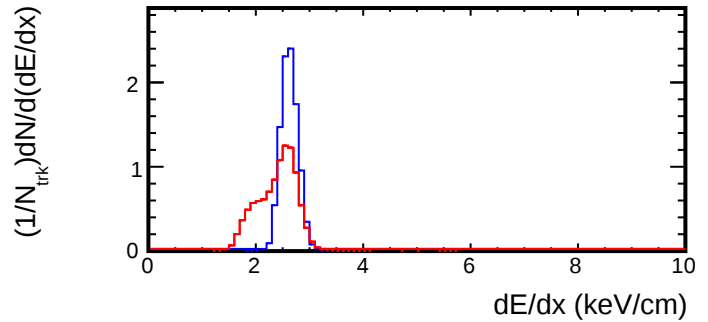
- Daughter π^- (from He4Lambda) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

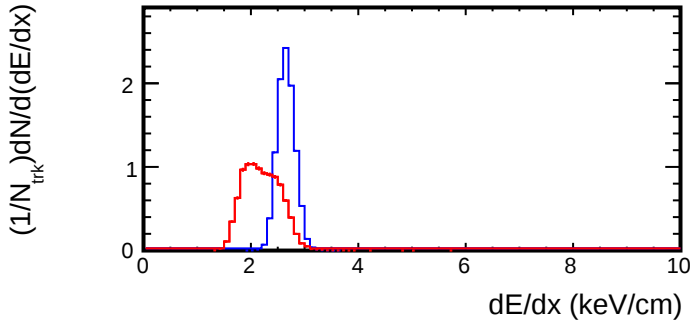
Reco p < 0.4 GeV/c



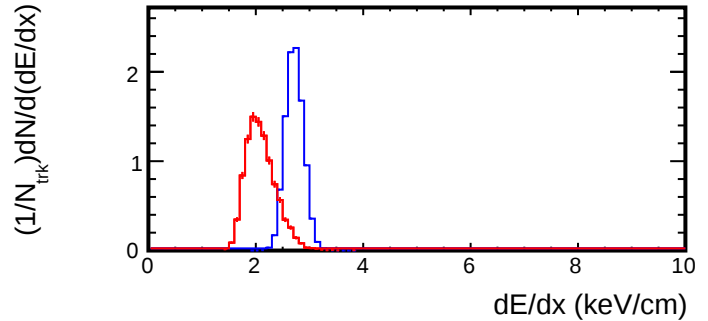
Reco p < 0.6 GeV/c



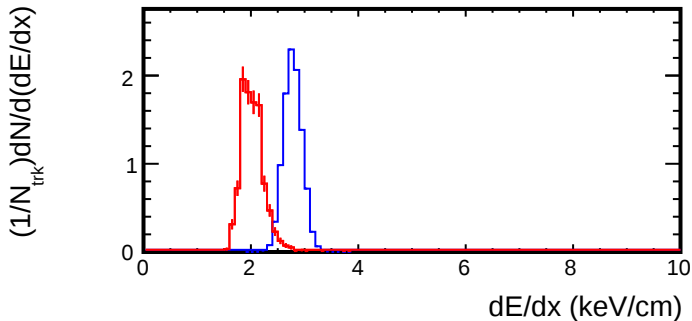
Reco p < 0.8 GeV/c



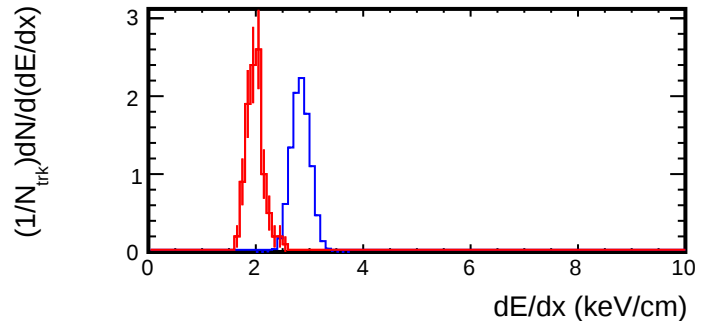
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



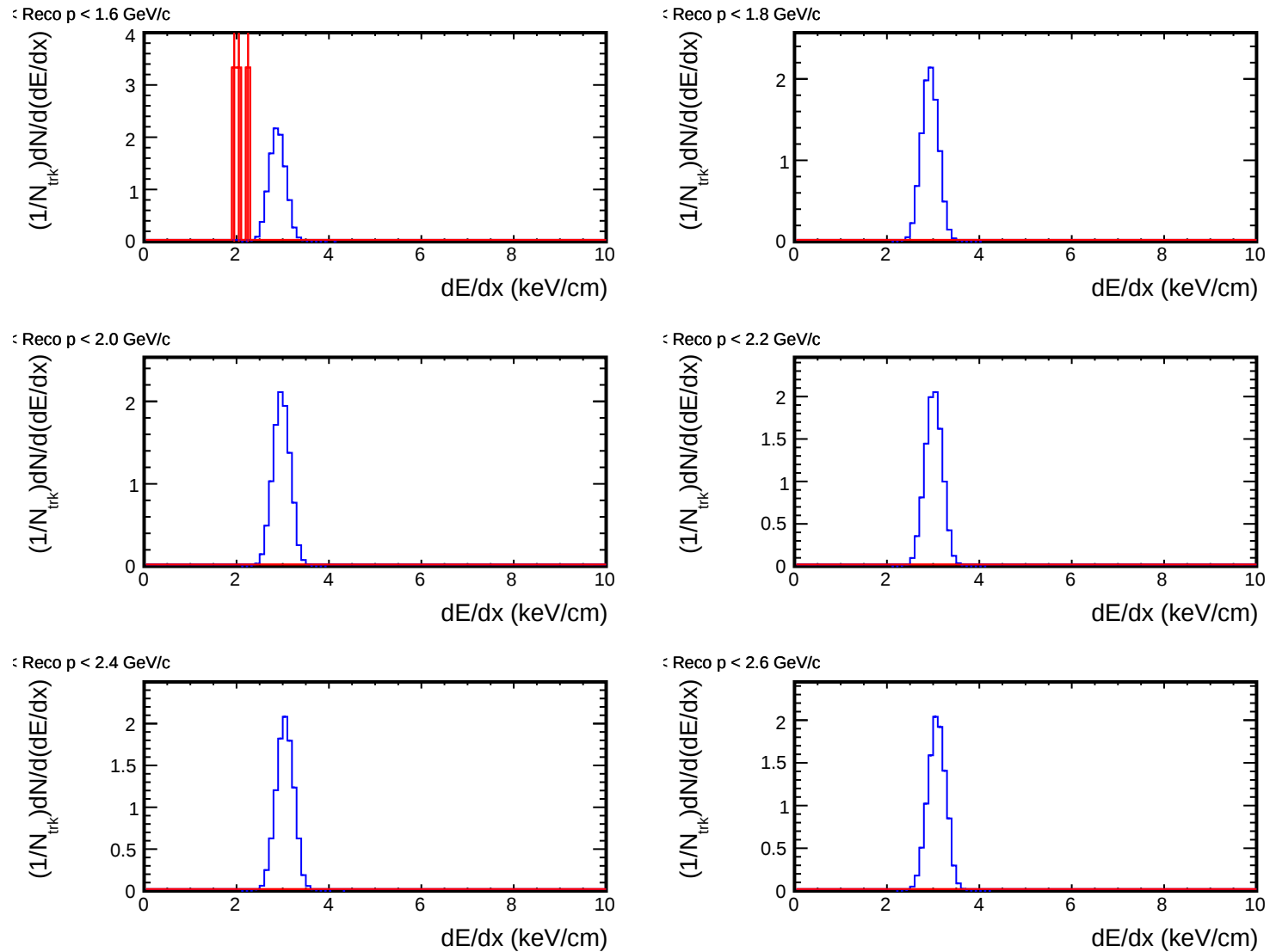
Reco p < 1.4 GeV/c



— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

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

Projection of dE/dx for each p bin

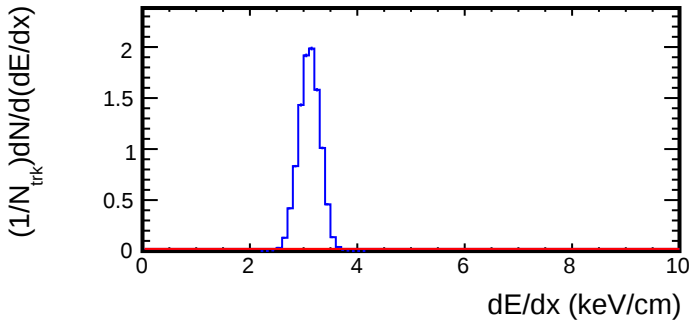


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

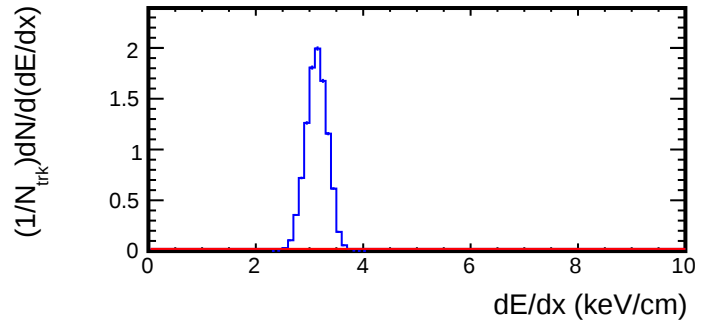
— pi-
(PRIMARY, $|n \sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

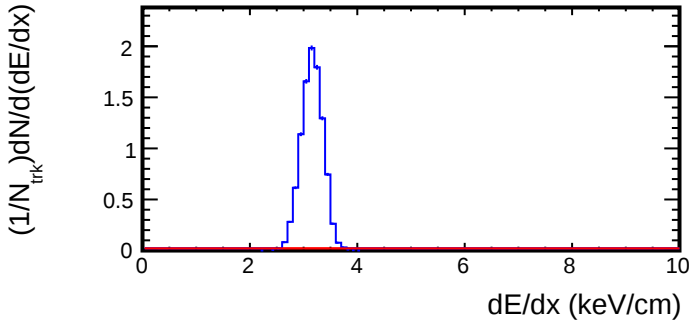
Reco p < 2.8 GeV/c



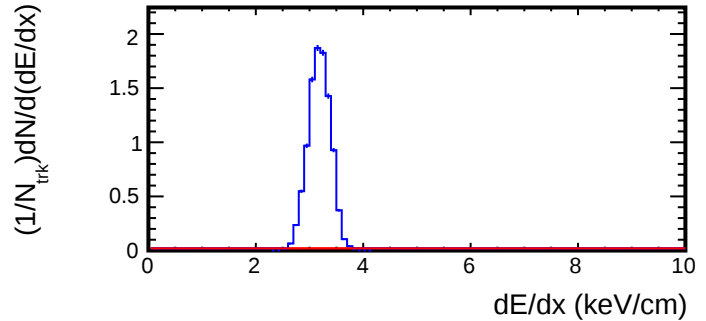
Reco p < 3.0 GeV/c



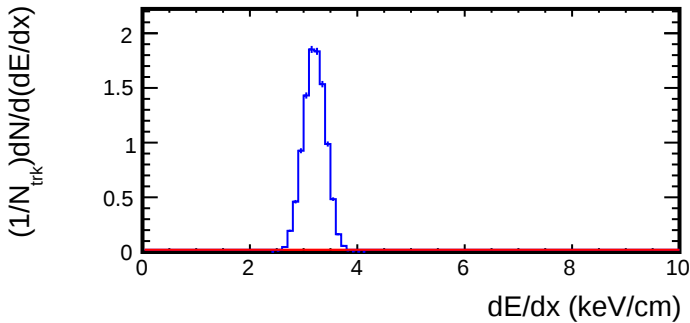
Reco p < 3.2 GeV/c



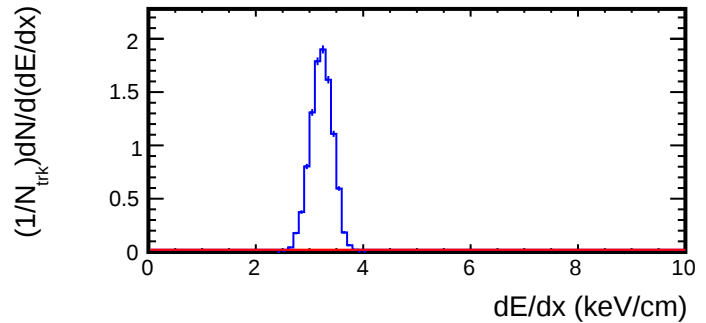
Reco p < 3.4 GeV/c



Reco p < 3.6 GeV/c



Reco p < 3.8 GeV/c

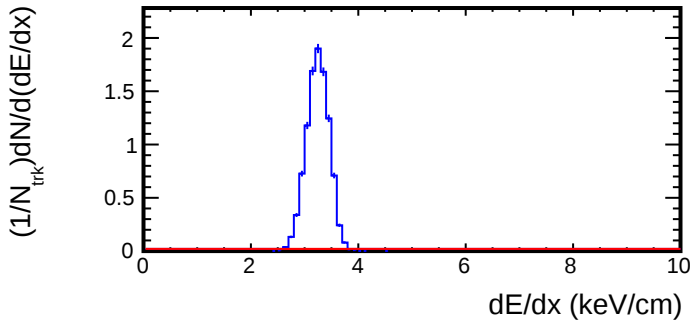


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

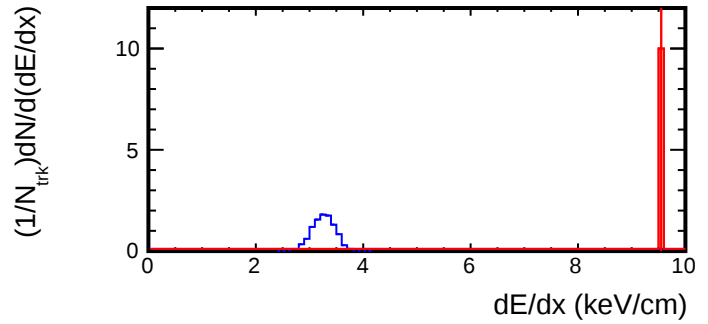
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

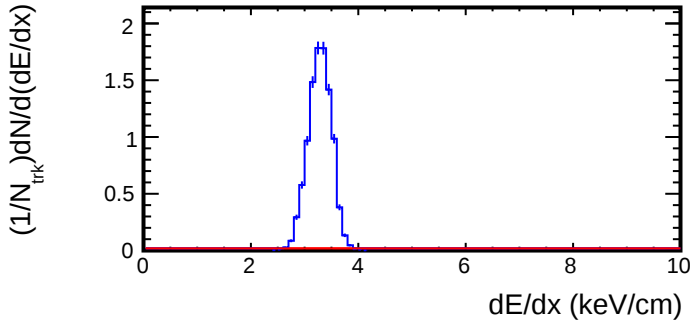
Reco p < 4.0 GeV/c



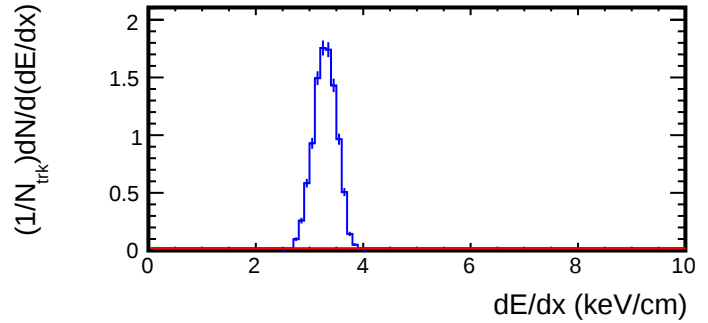
Reco p < 4.2 GeV/c



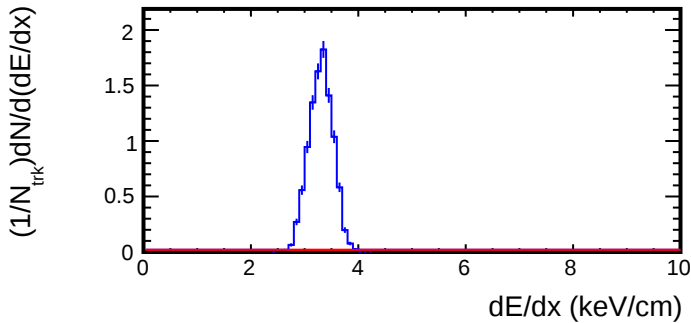
Reco p < 4.4 GeV/c



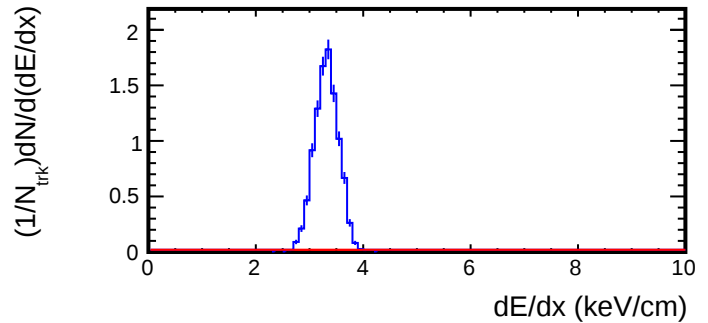
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c



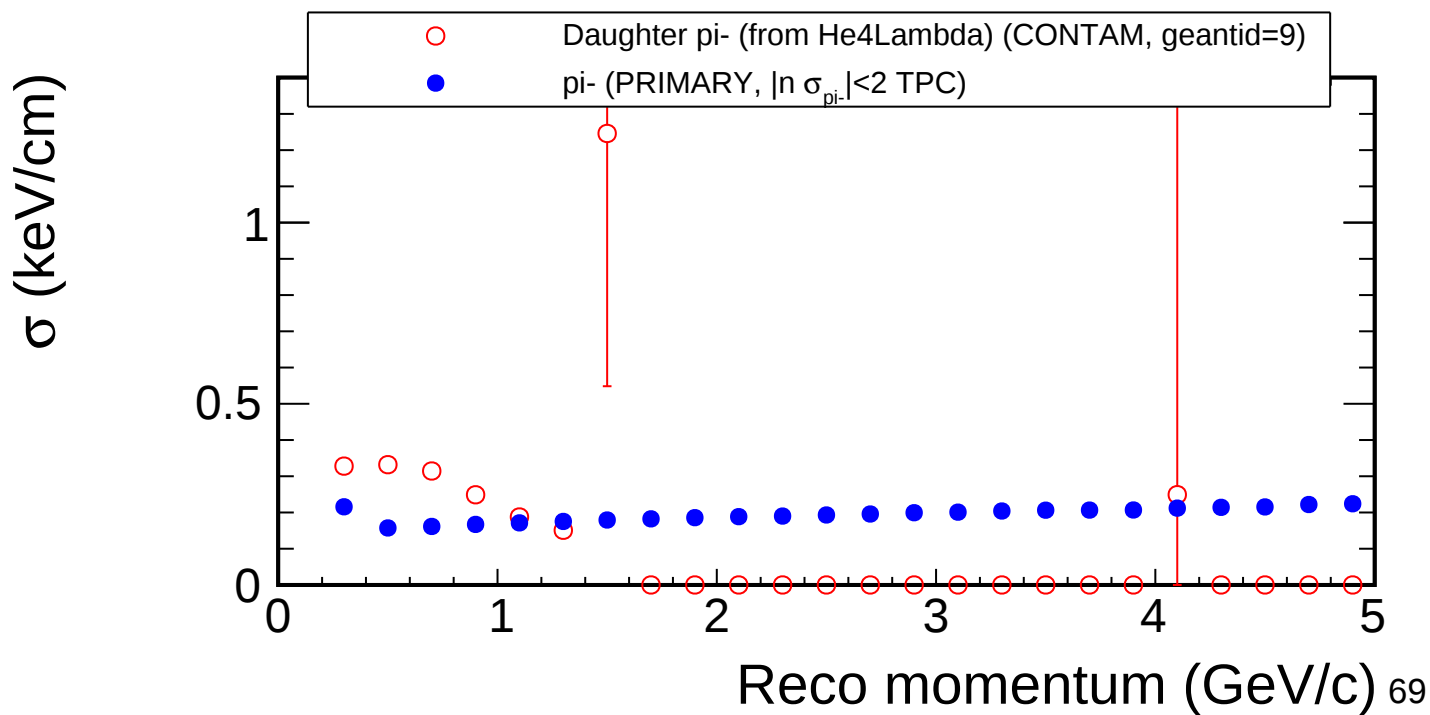
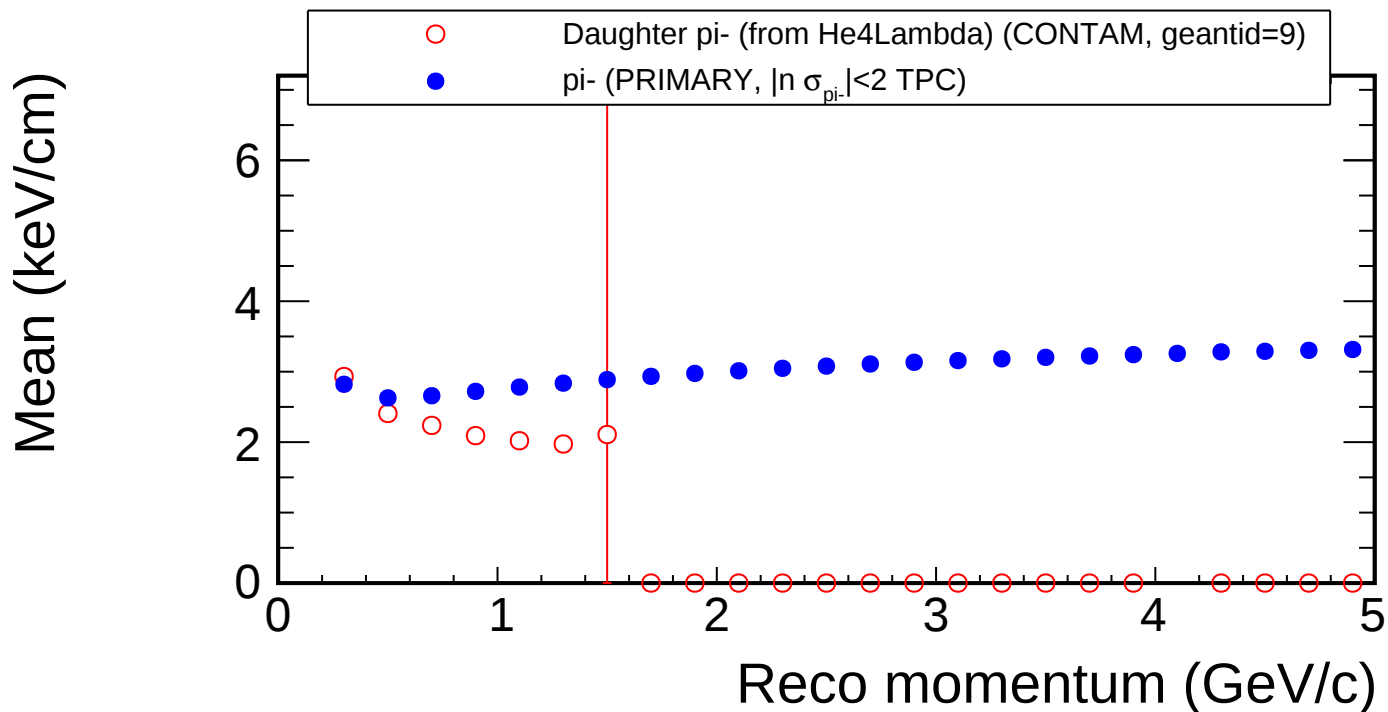
Reco p < 5.0 GeV/c



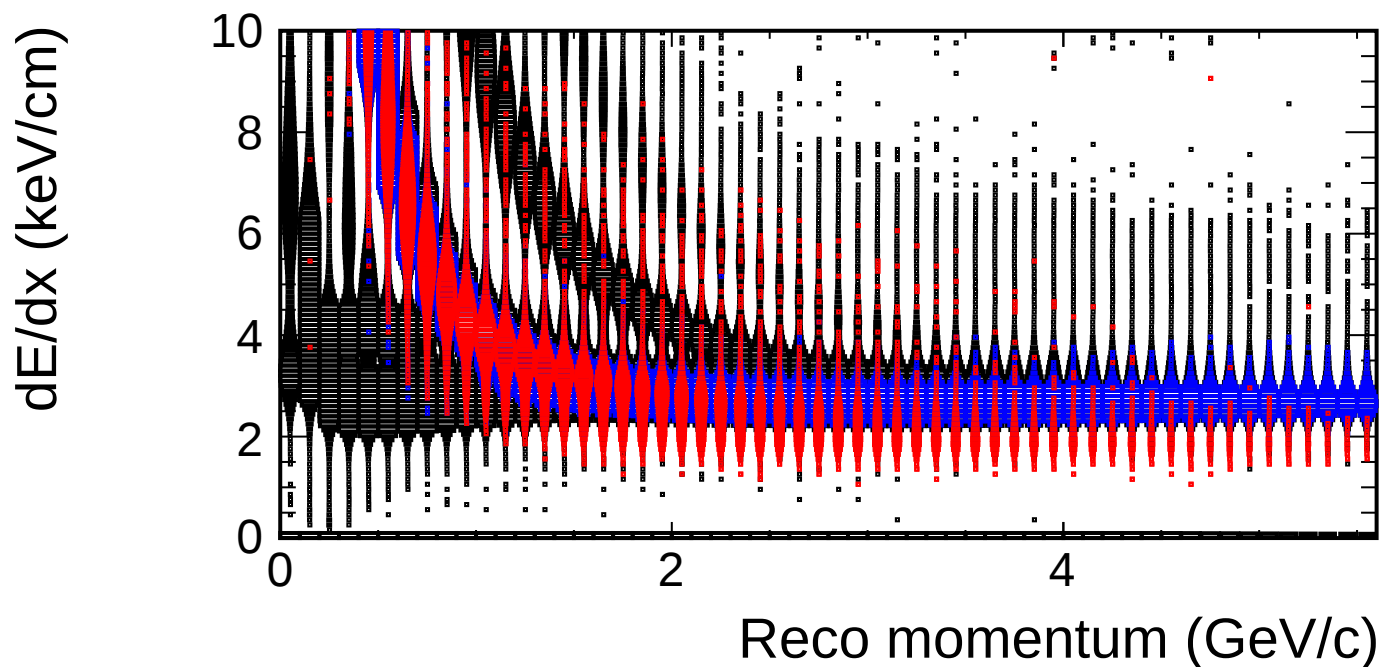
— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

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

Mean/ σ of dE/dx vs momentum



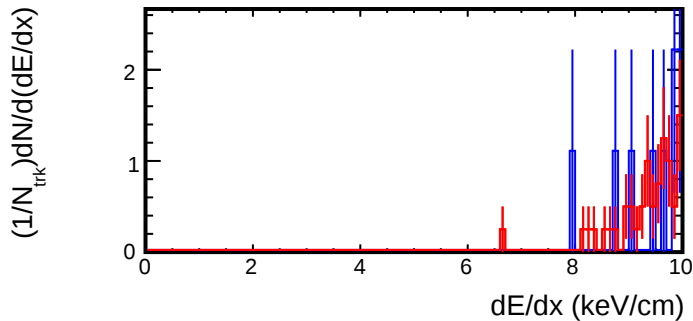
dE/dx vs momentum (Embedding:proton, Real:proton)



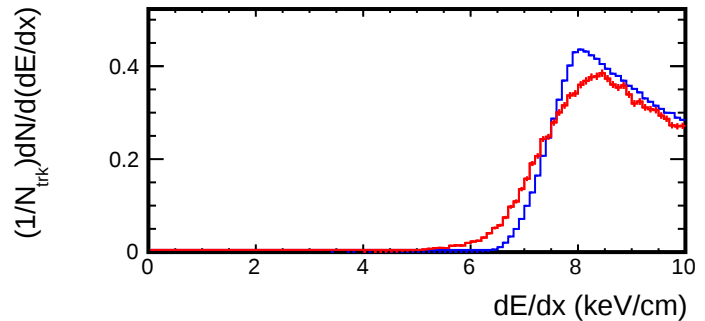
- Daughter proton (from He4Lambda) (CONTAM, geantid=14)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

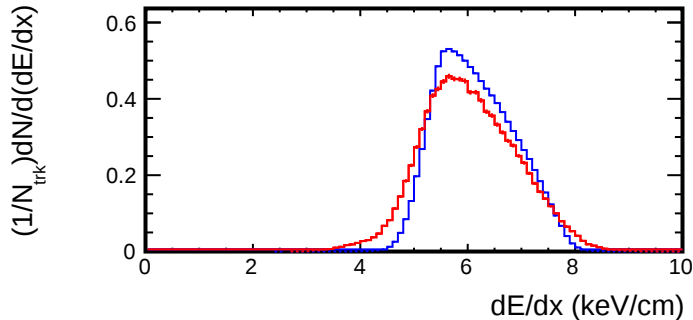
Reco p < 0.4 GeV/c



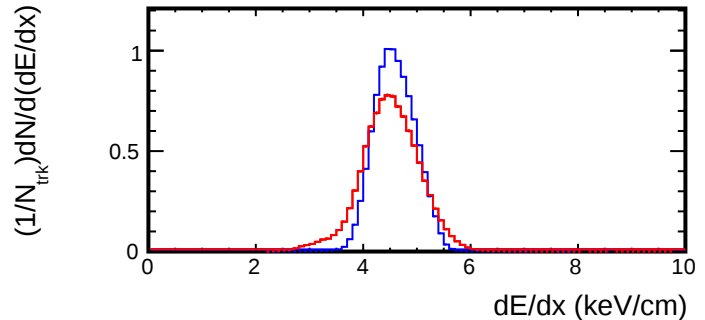
Reco p < 0.6 GeV/c



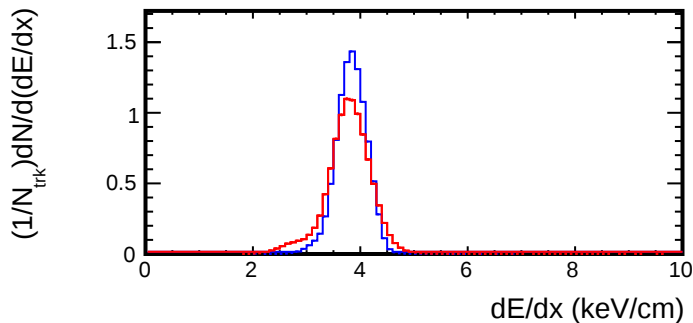
Reco p < 0.8 GeV/c



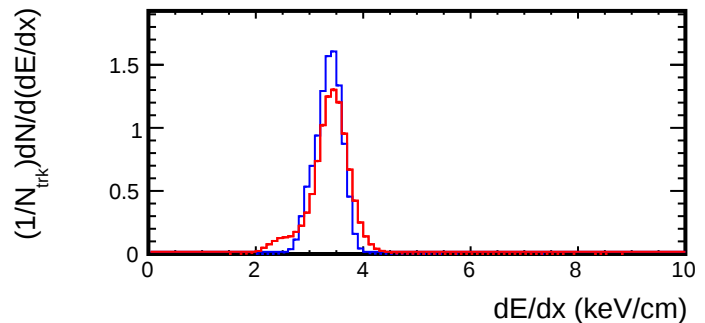
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



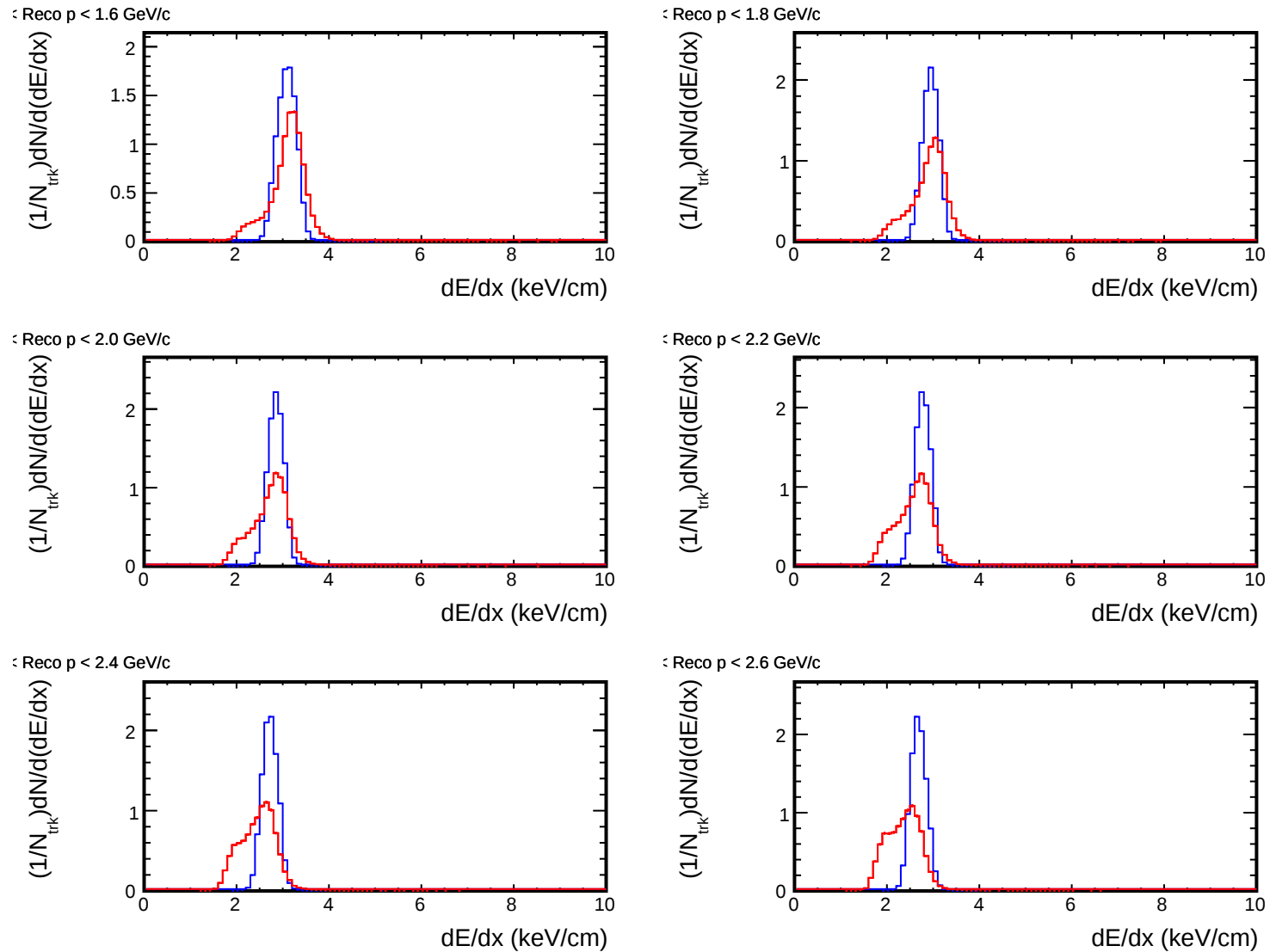
Reco p < 1.4 GeV/c



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

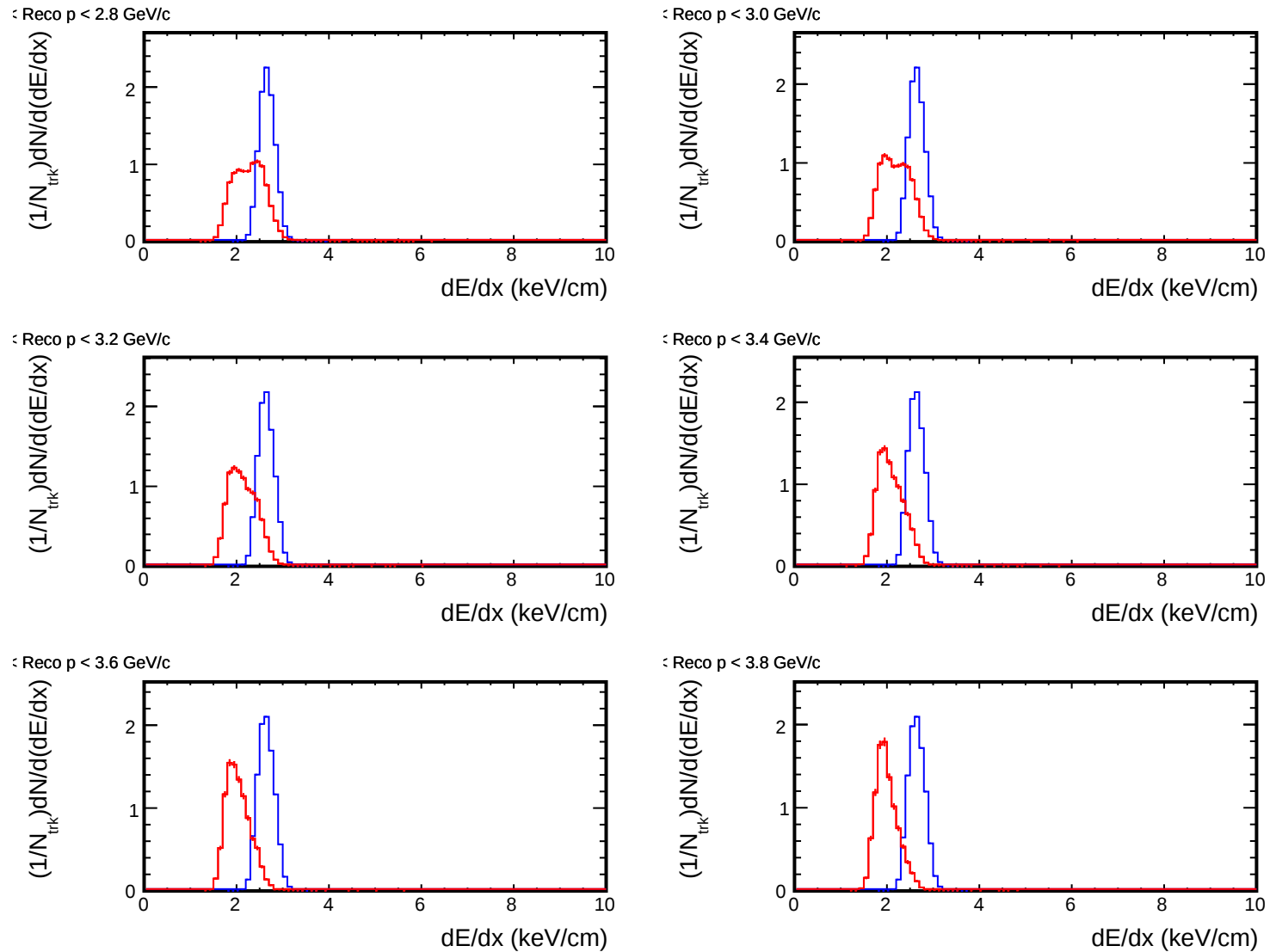
Projection of dE/dx for each p bin



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

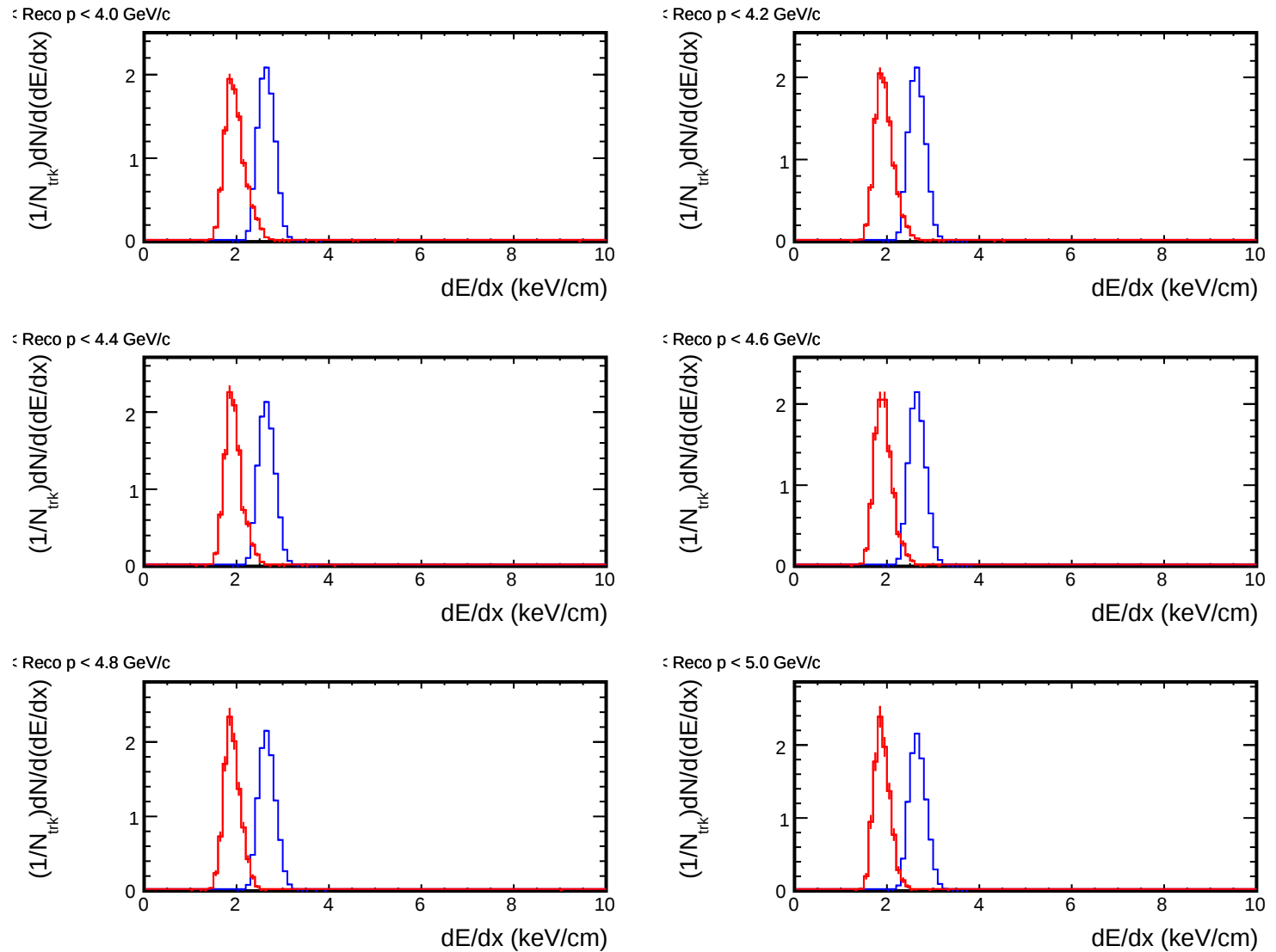
Projection of dE/dx for each p bin



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

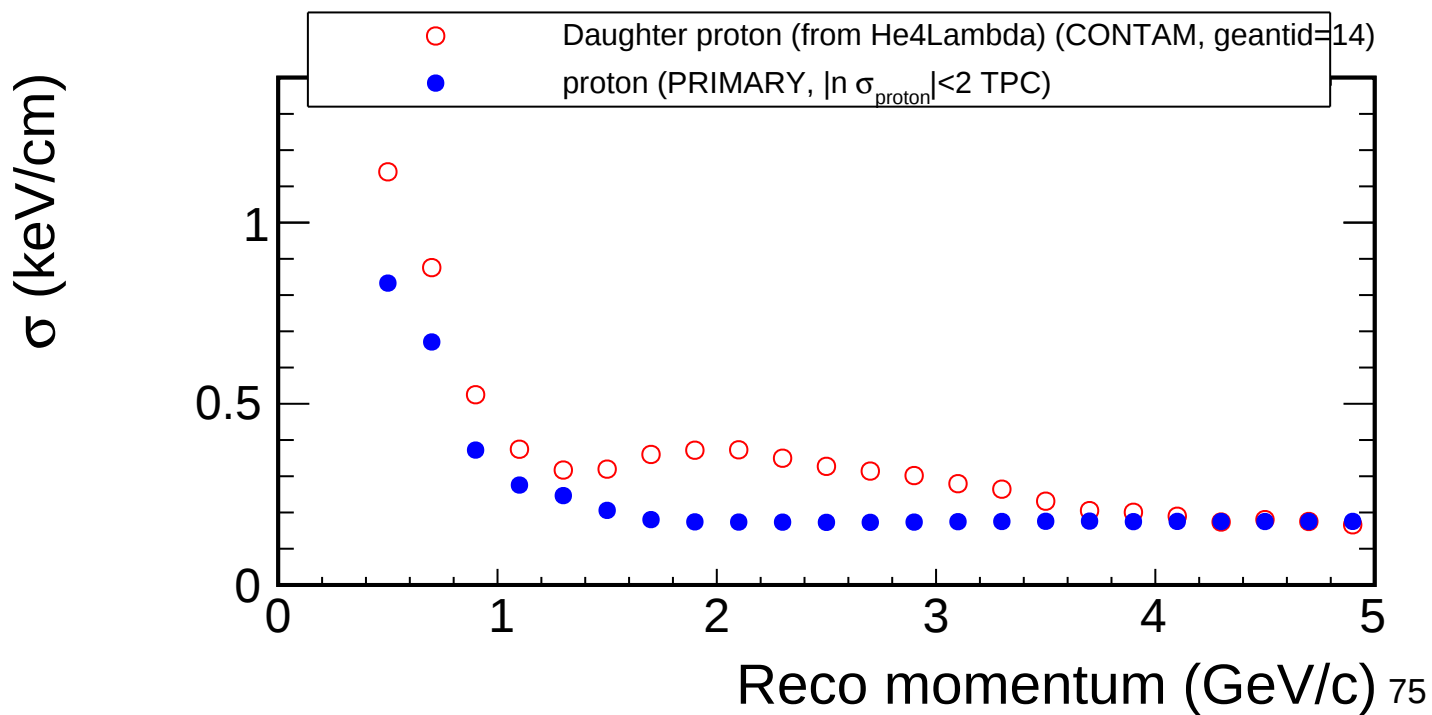
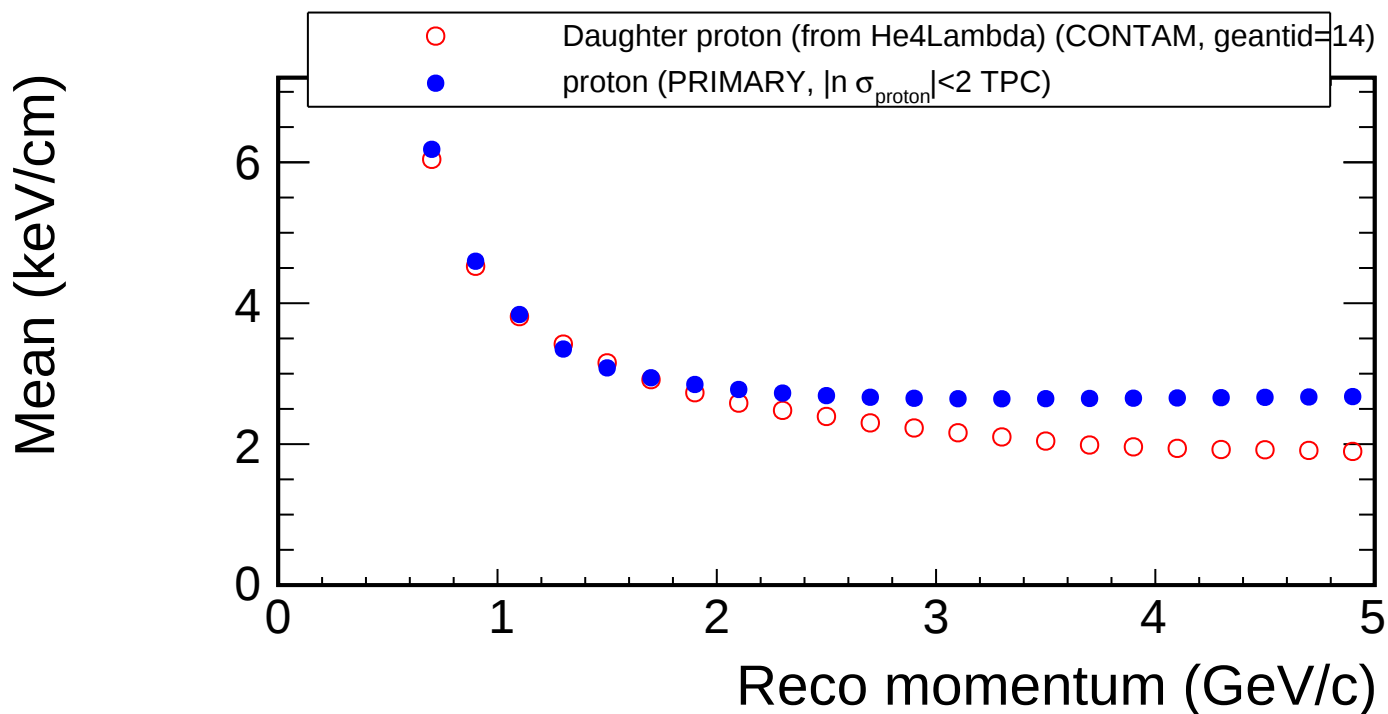
Projection of dE/dx for each p bin



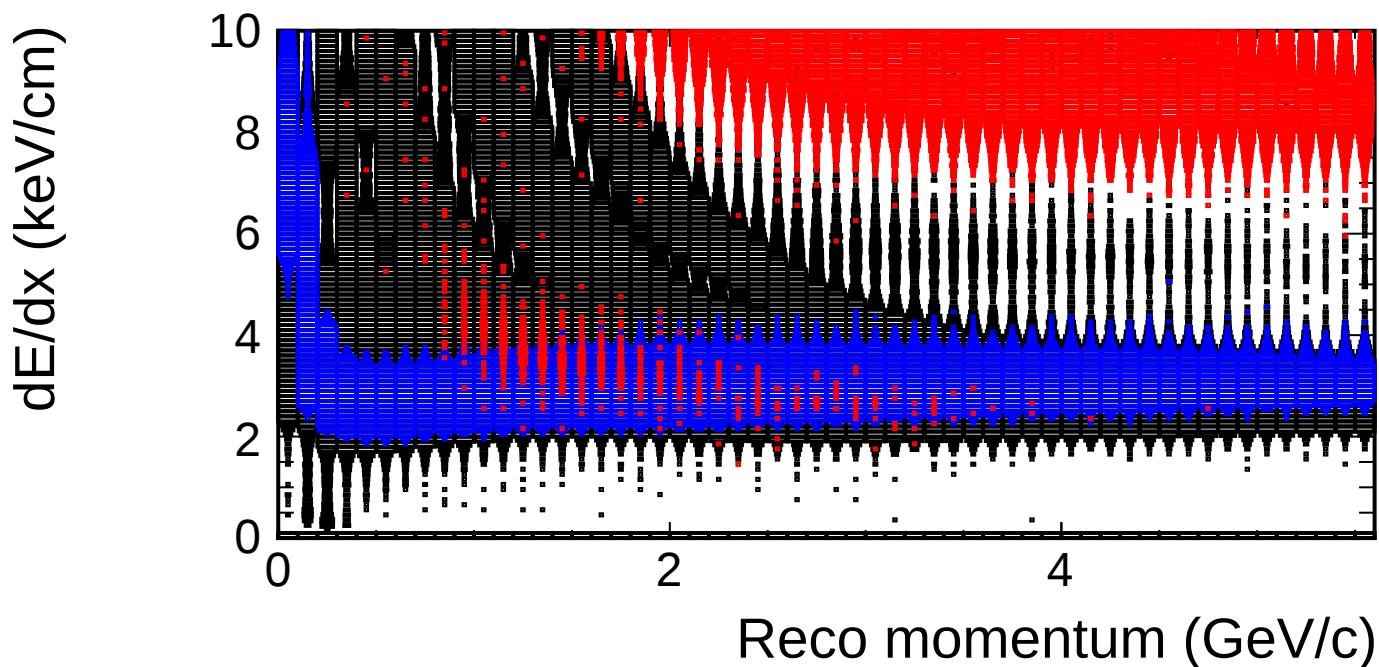
— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

Mean/ σ of dE/dx vs momentum

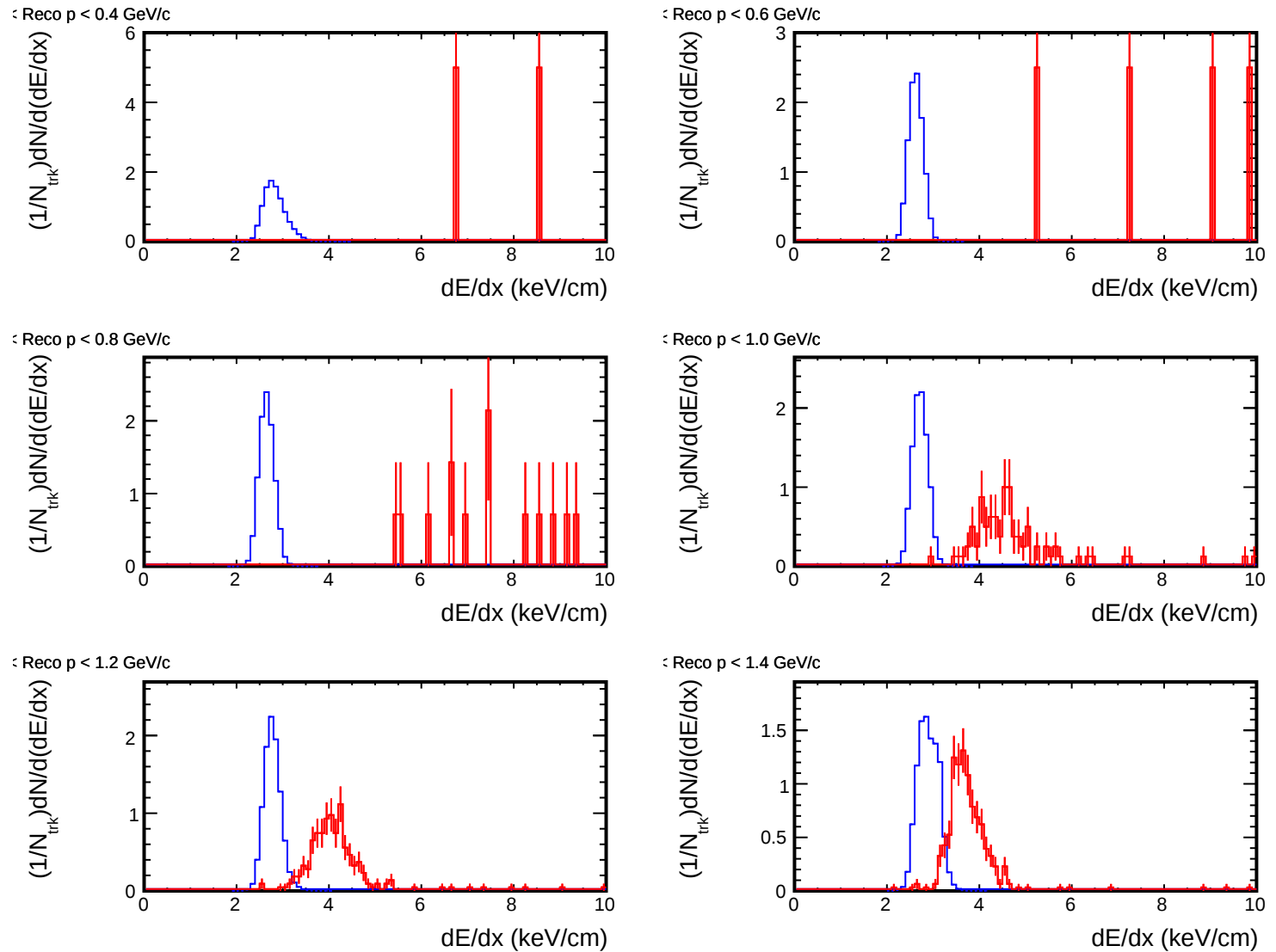


dE/dx vs momentum (Embedding:He3, Real:He3)



- Daughter He3 (from He4Lambda) (CONTAM, geantid=49)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

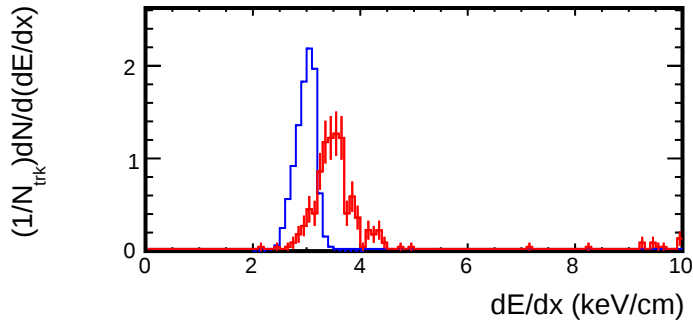


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

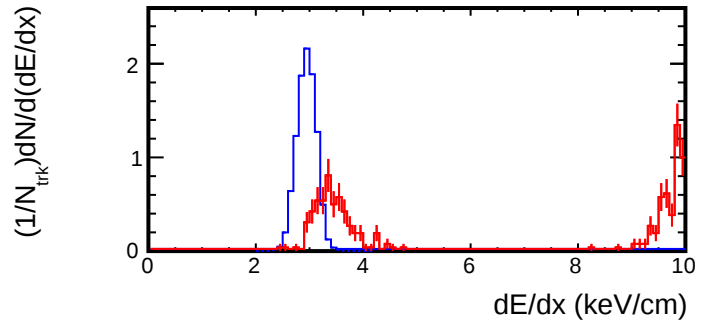
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

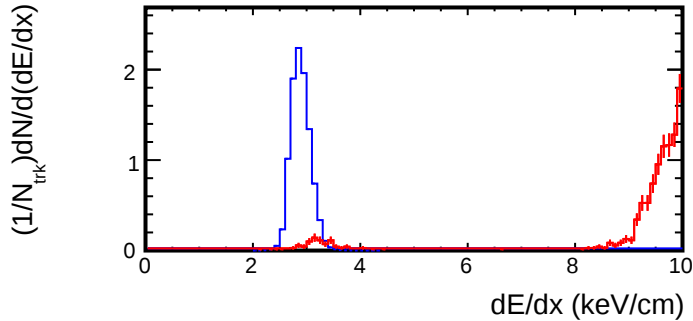
Reco p < 1.6 GeV/c



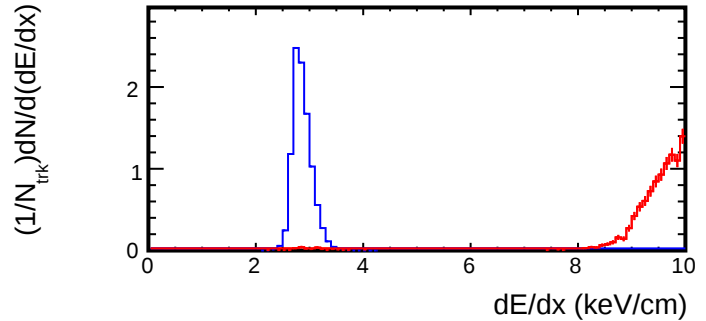
Reco p < 1.8 GeV/c



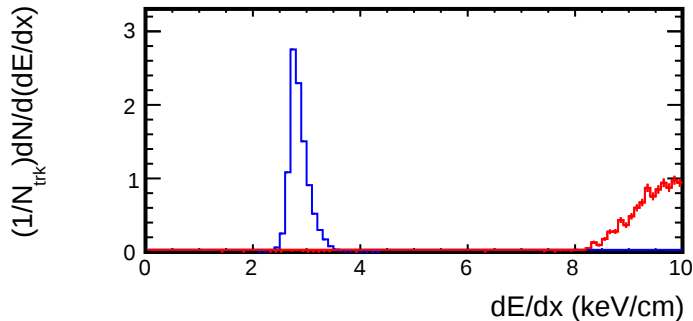
Reco p < 2.0 GeV/c



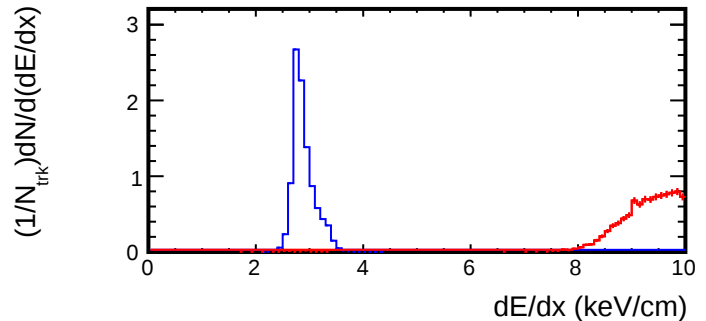
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



Reco p < 2.6 GeV/c

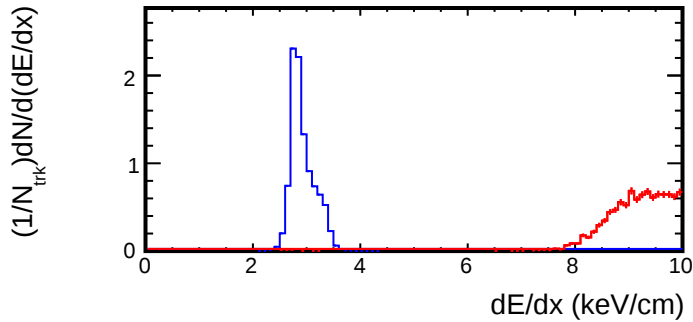


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

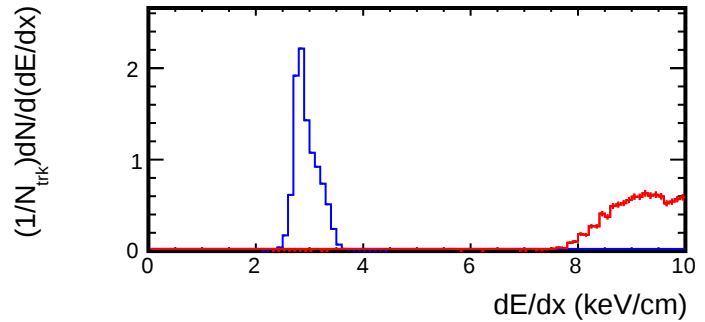
— pi+
(PRIMARY, $|n\sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

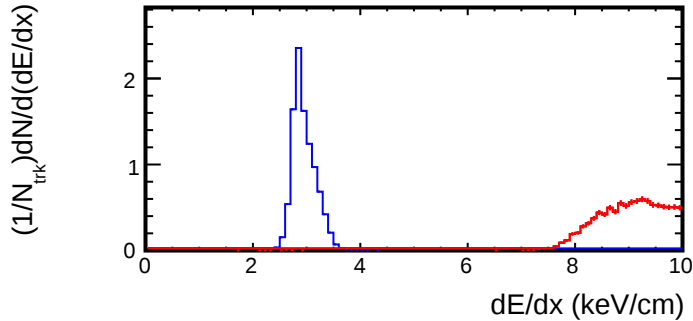
Reco p < 2.8 GeV/c



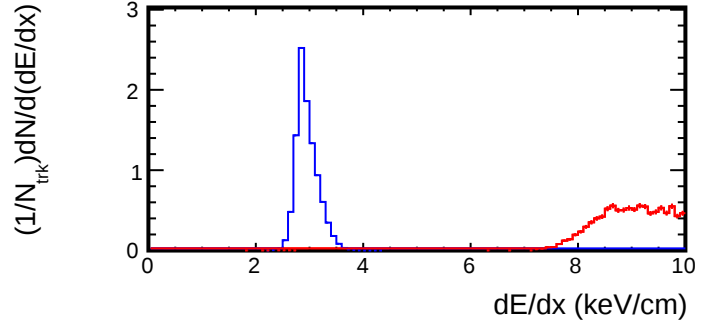
Reco p < 3.0 GeV/c



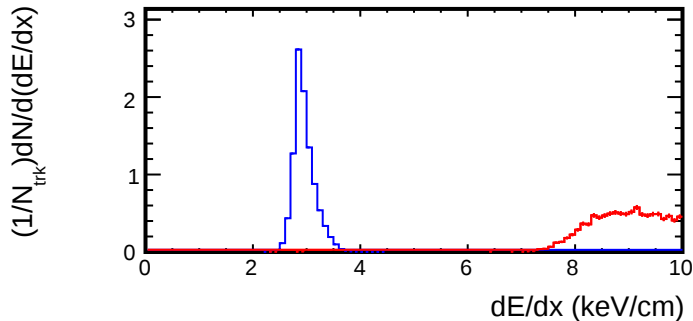
Reco p < 3.2 GeV/c



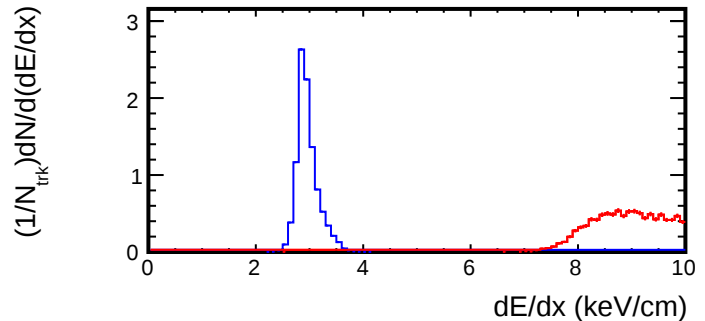
Reco p < 3.4 GeV/c



Reco p < 3.6 GeV/c



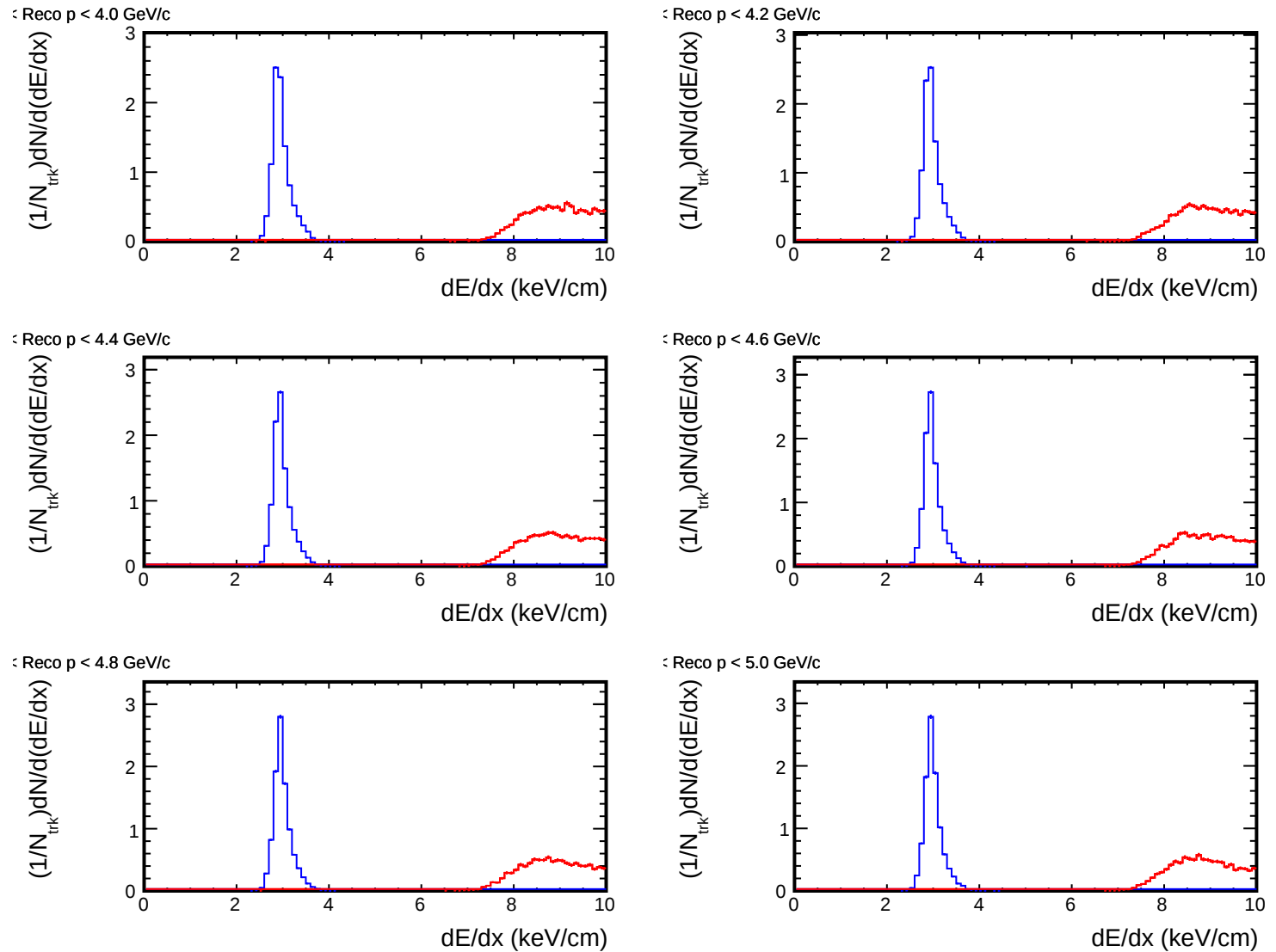
Reco p < 3.8 GeV/c



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

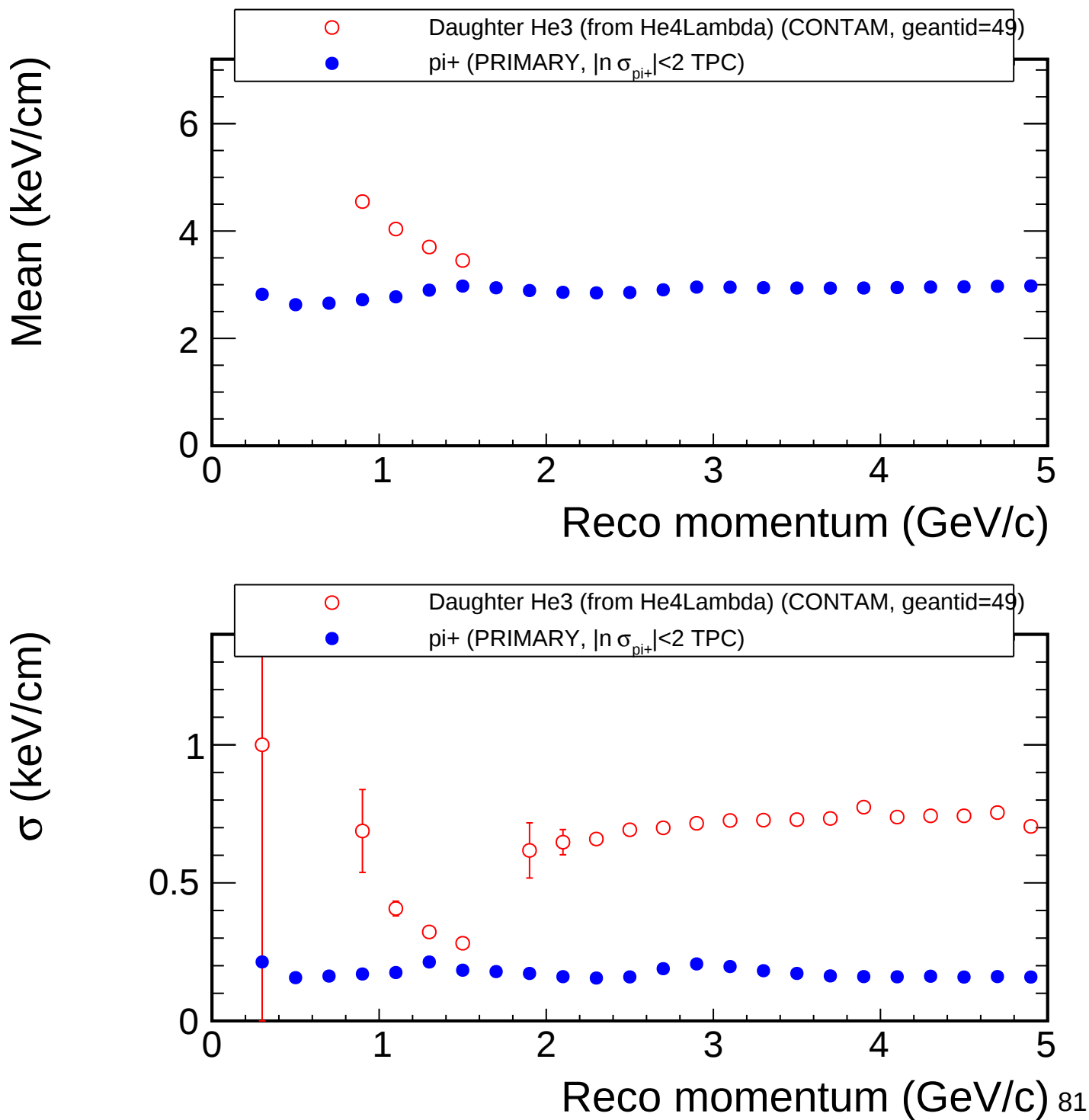
Projection of dE/dx for each p bin



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

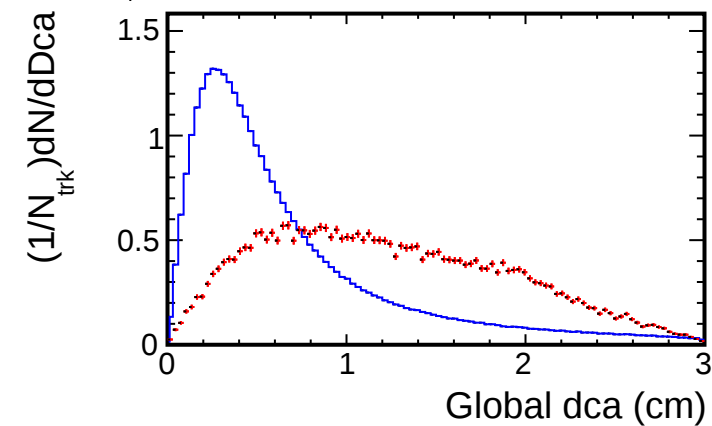
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum

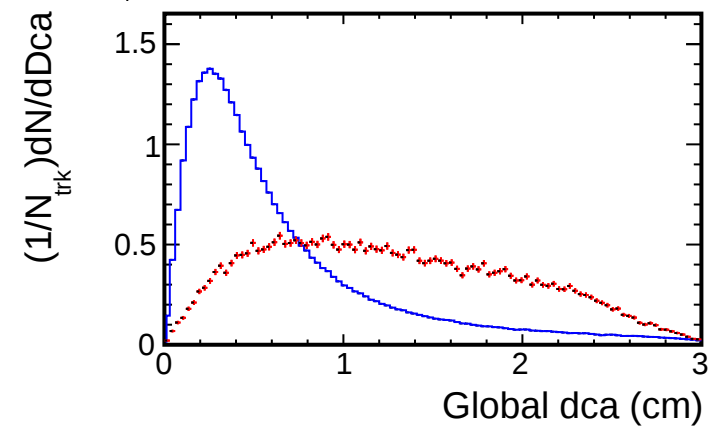


Dca distribution for (p_T , η) slices

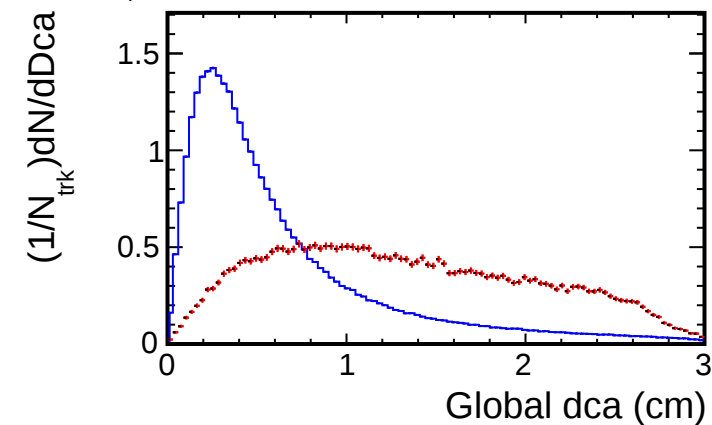
1.8, $0.1 < p_T < 0.5$ (GeV/c)



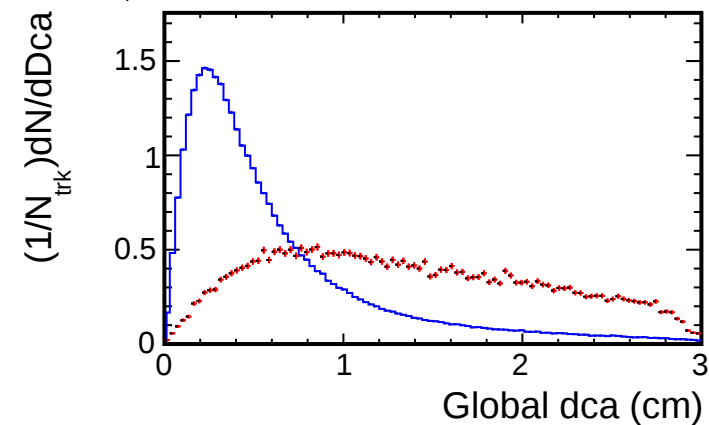
1.6, $0.1 < p_T < 0.5$ (GeV/c)



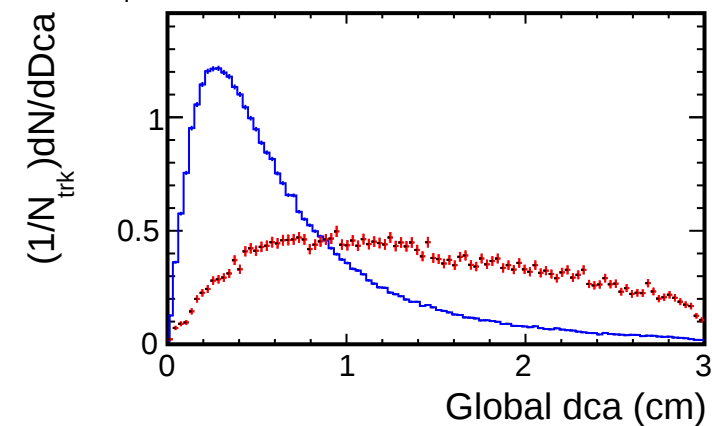
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



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

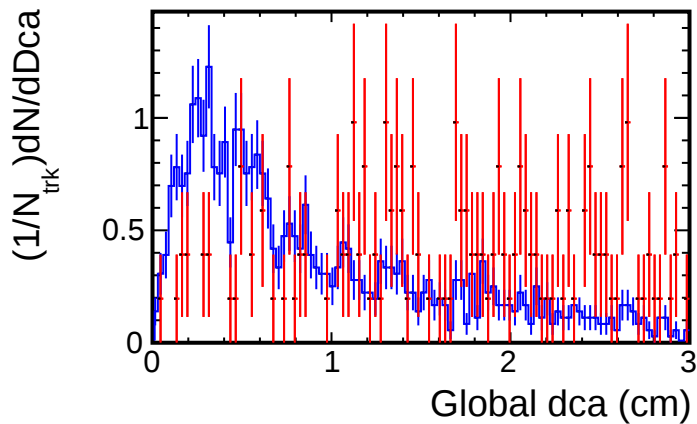


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

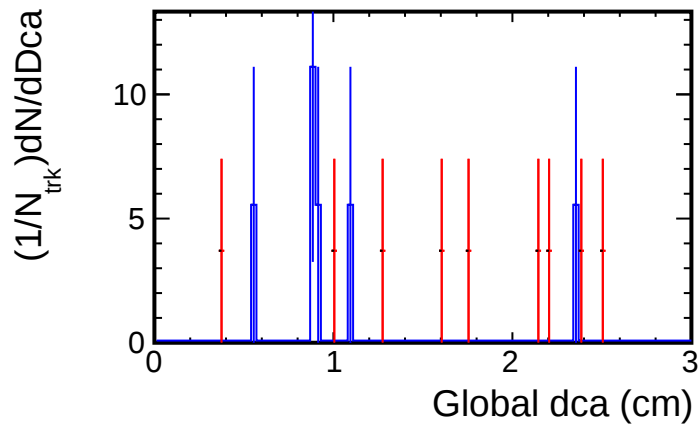
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

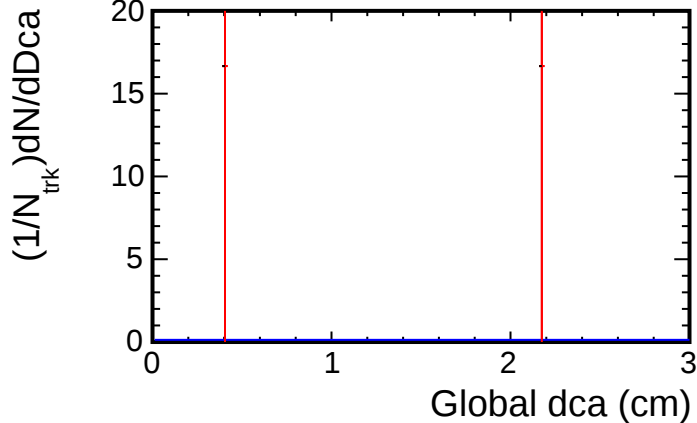
2, $0.1 < p_T < 0.5$ (GeV/c)



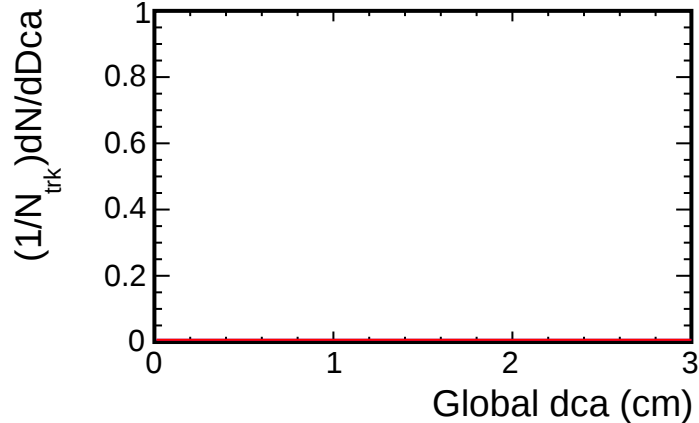
4, $0.1 < p_T < 0.5$ (GeV/c)



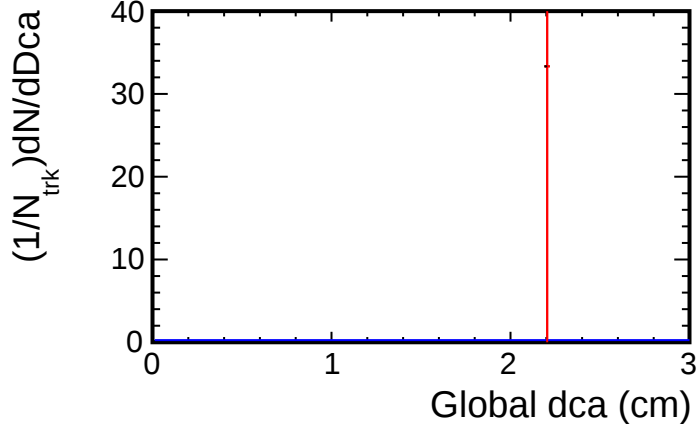
6, $0.1 < p_T < 0.5$ (GeV/c)



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



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

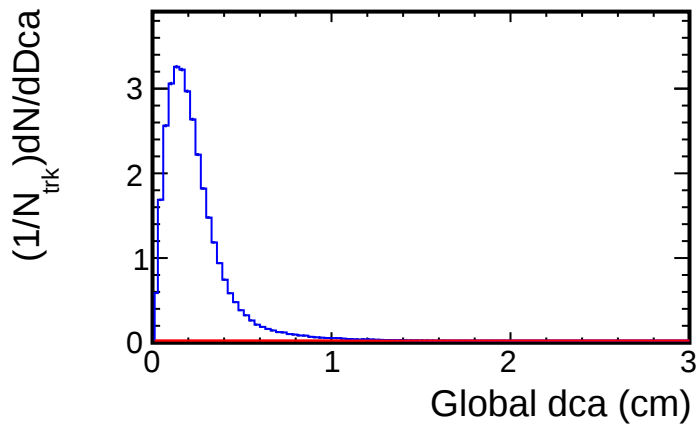


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

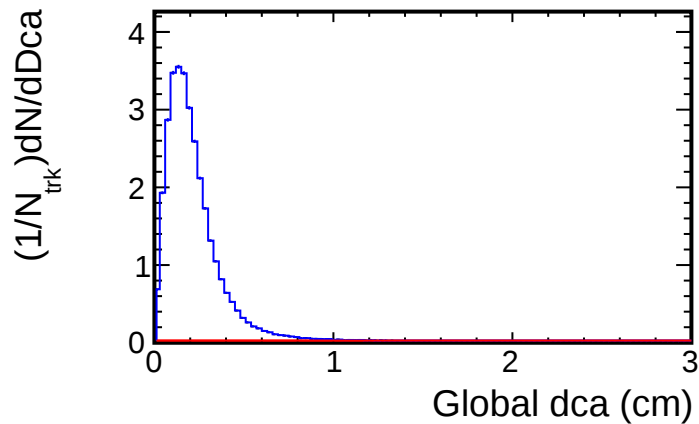
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

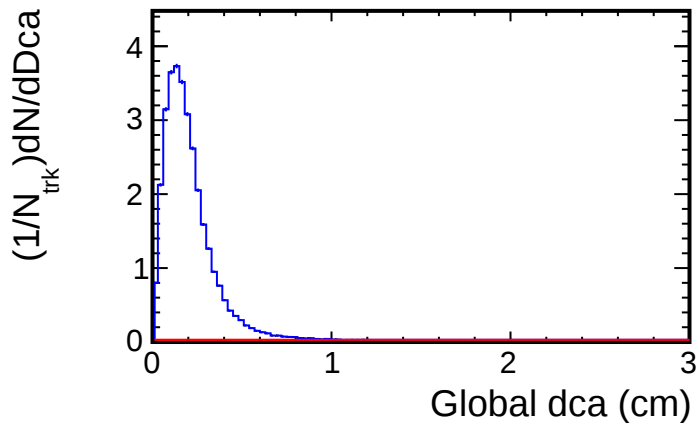
$1.8, 0.5 < p_T < 1.0$ (GeV/c)



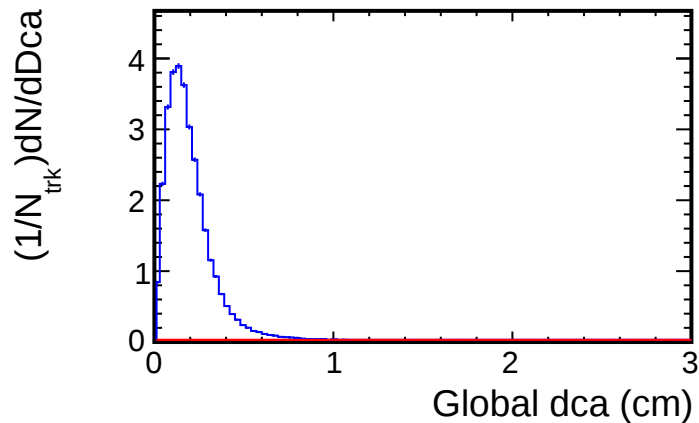
$1.6, 0.5 < p_T < 1.0$ (GeV/c)



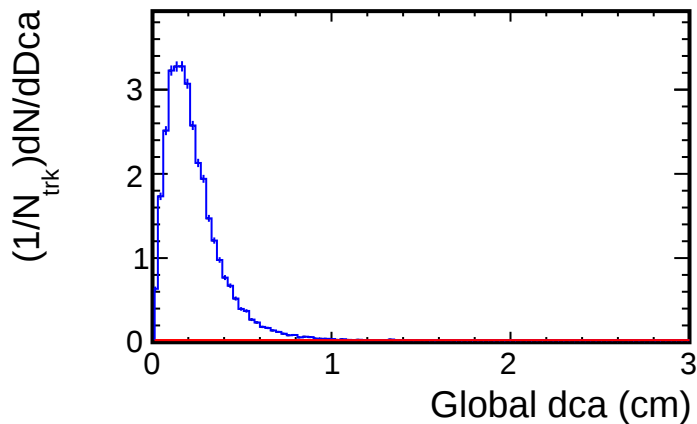
$1.4, 0.5 < p_T < 1.0$ (GeV/c)



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



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

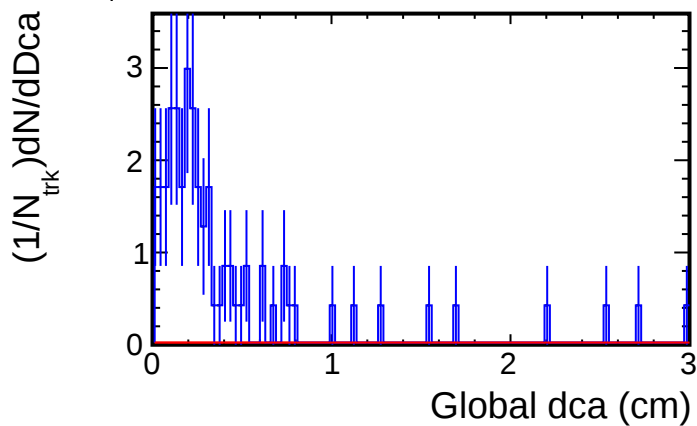


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

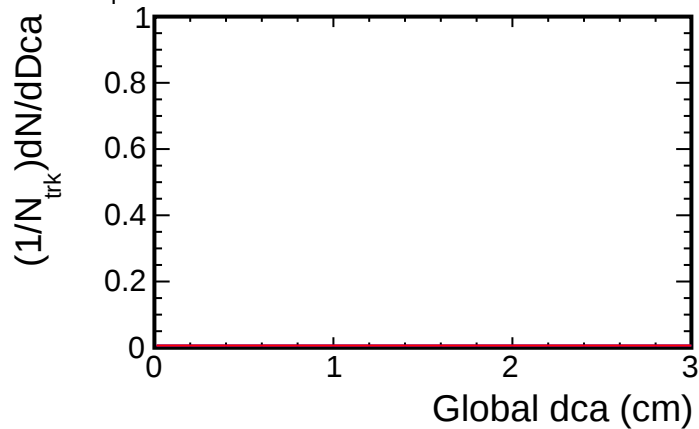
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

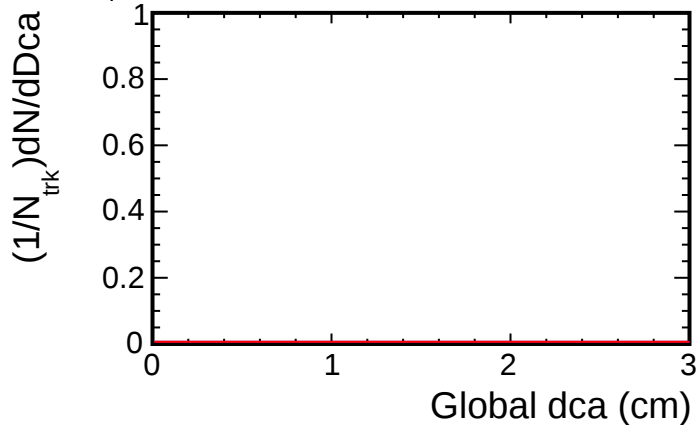
2, $0.5 < p_T < 1.0$ (GeV/c)



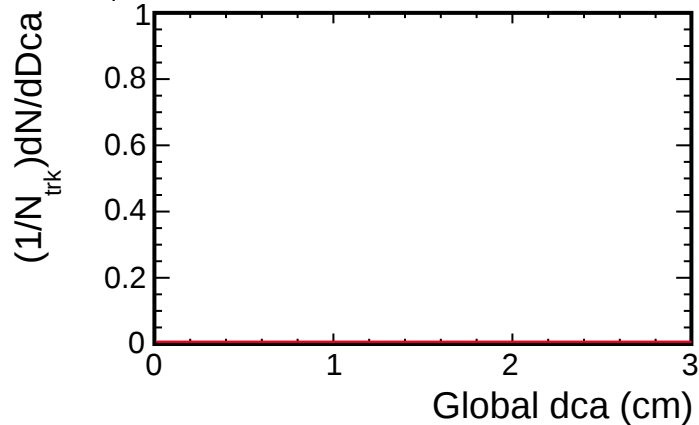
4, $0.5 < p_T < 1.0$ (GeV/c)



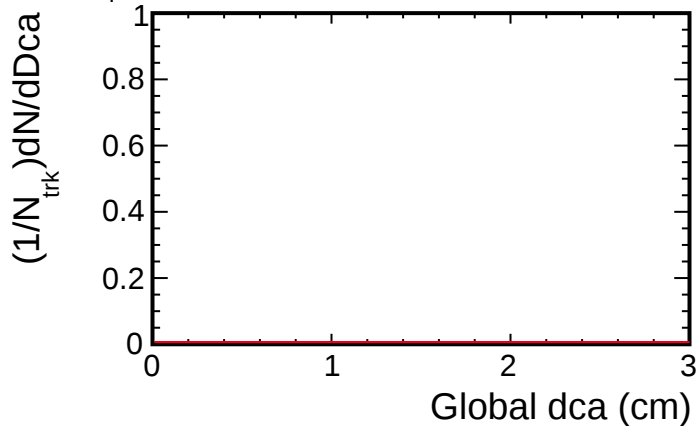
6, $0.5 < p_T < 1.0$ (GeV/c)



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



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

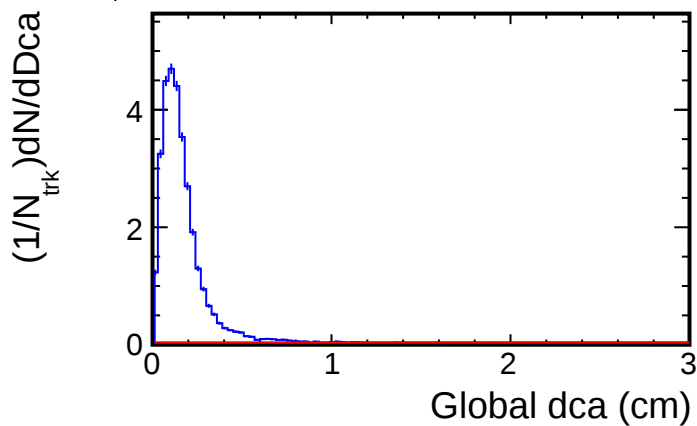


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

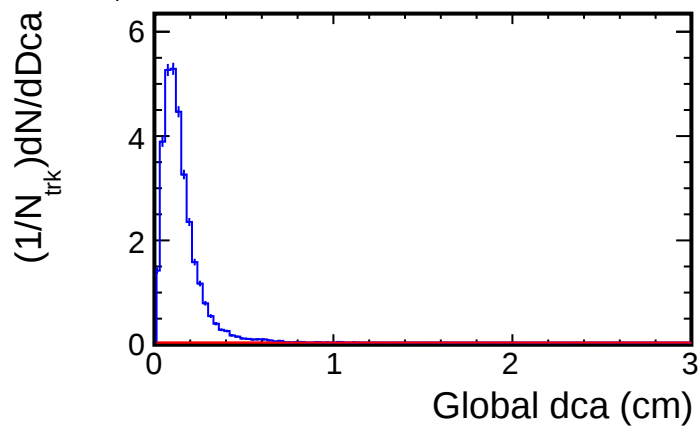
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

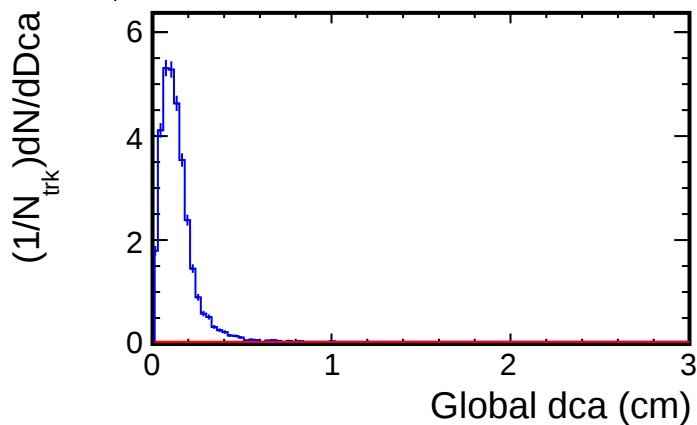
$1.8, 1.0 < p_T < 1.5$ (GeV/c)



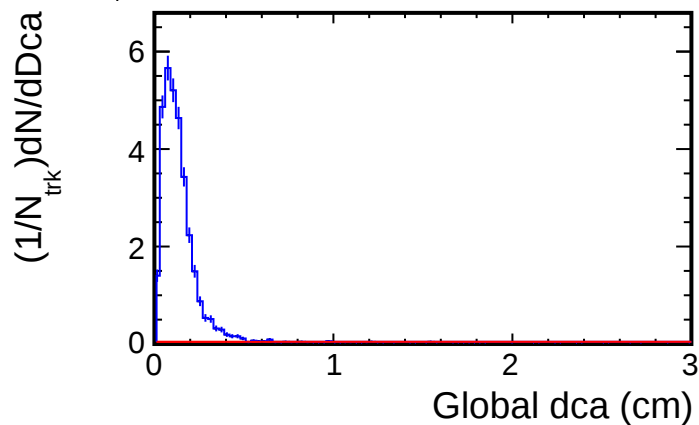
$1.6, 1.0 < p_T < 1.5$ (GeV/c)



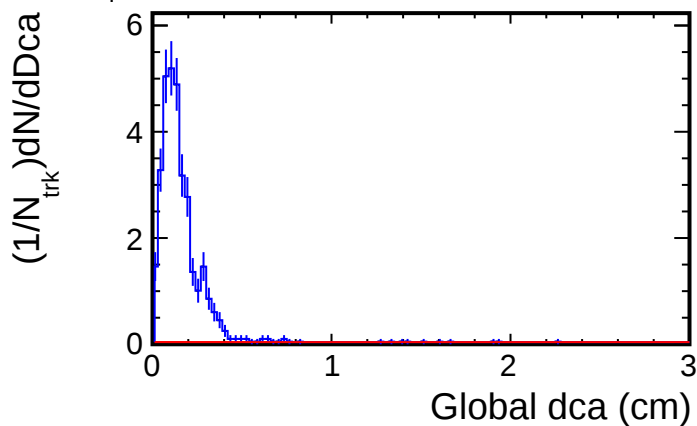
$1.4, 1.0 < p_T < 1.5$ (GeV/c)



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



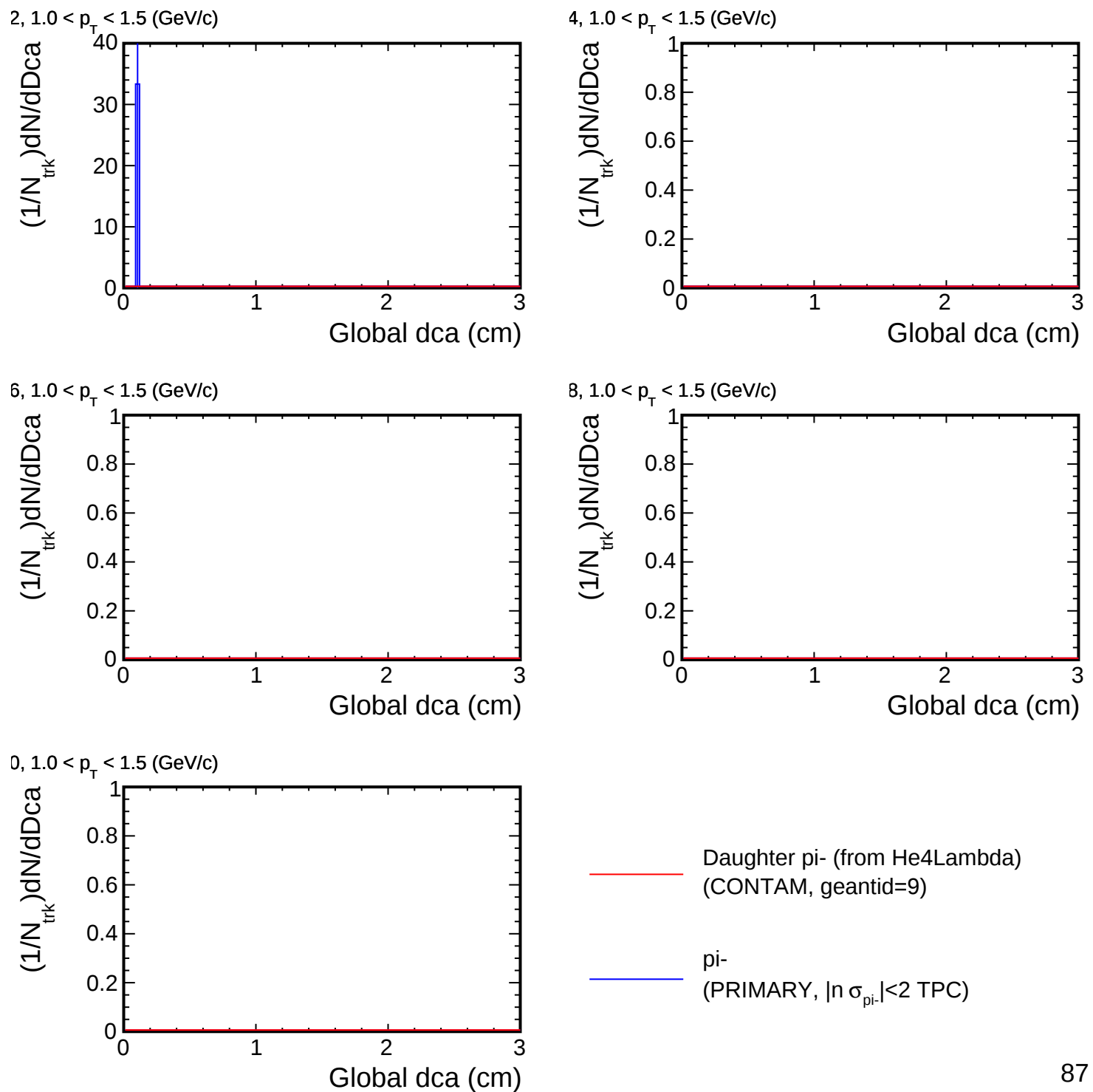
$1.0, 1.0 < p_T < 1.5$ (GeV/c)



— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

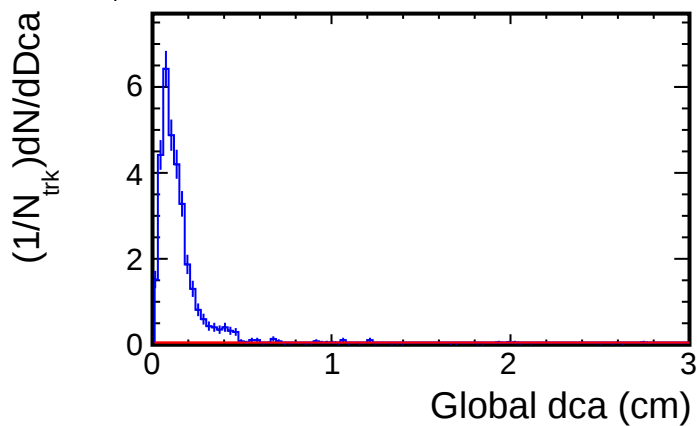
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

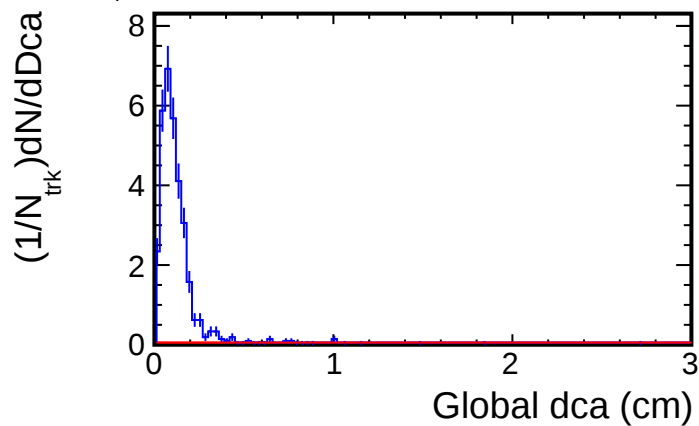


Dca distribution for (p_T , η) slices

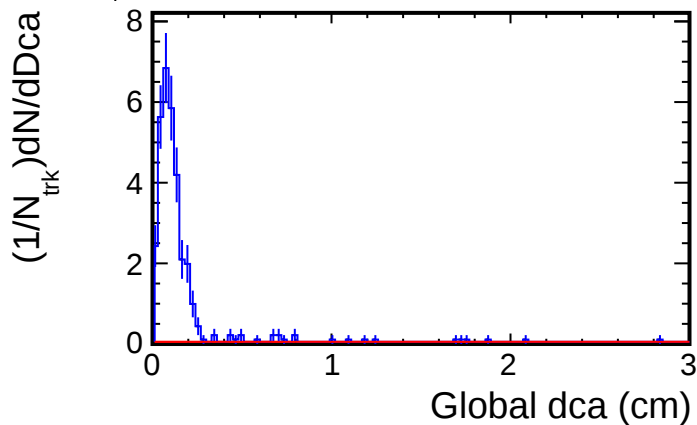
1.8, $1.5 < p_T < 2.0$ (GeV/c)



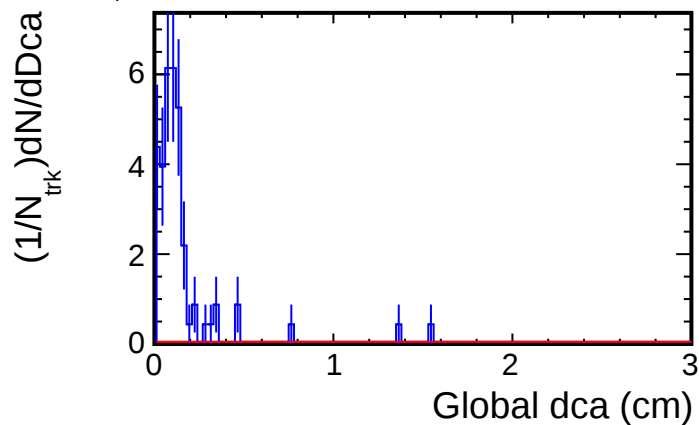
1.6, $1.5 < p_T < 2.0$ (GeV/c)



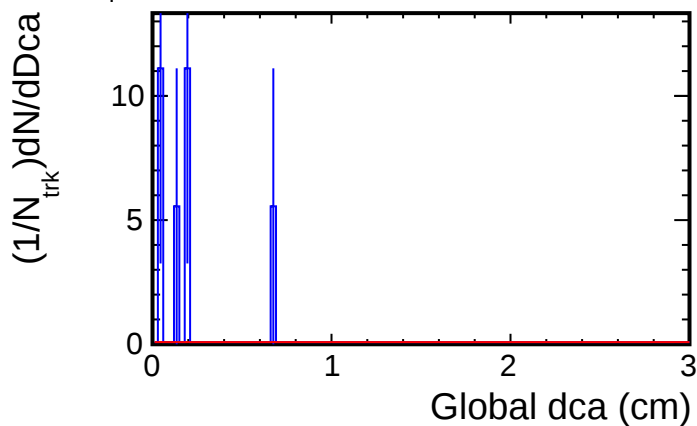
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



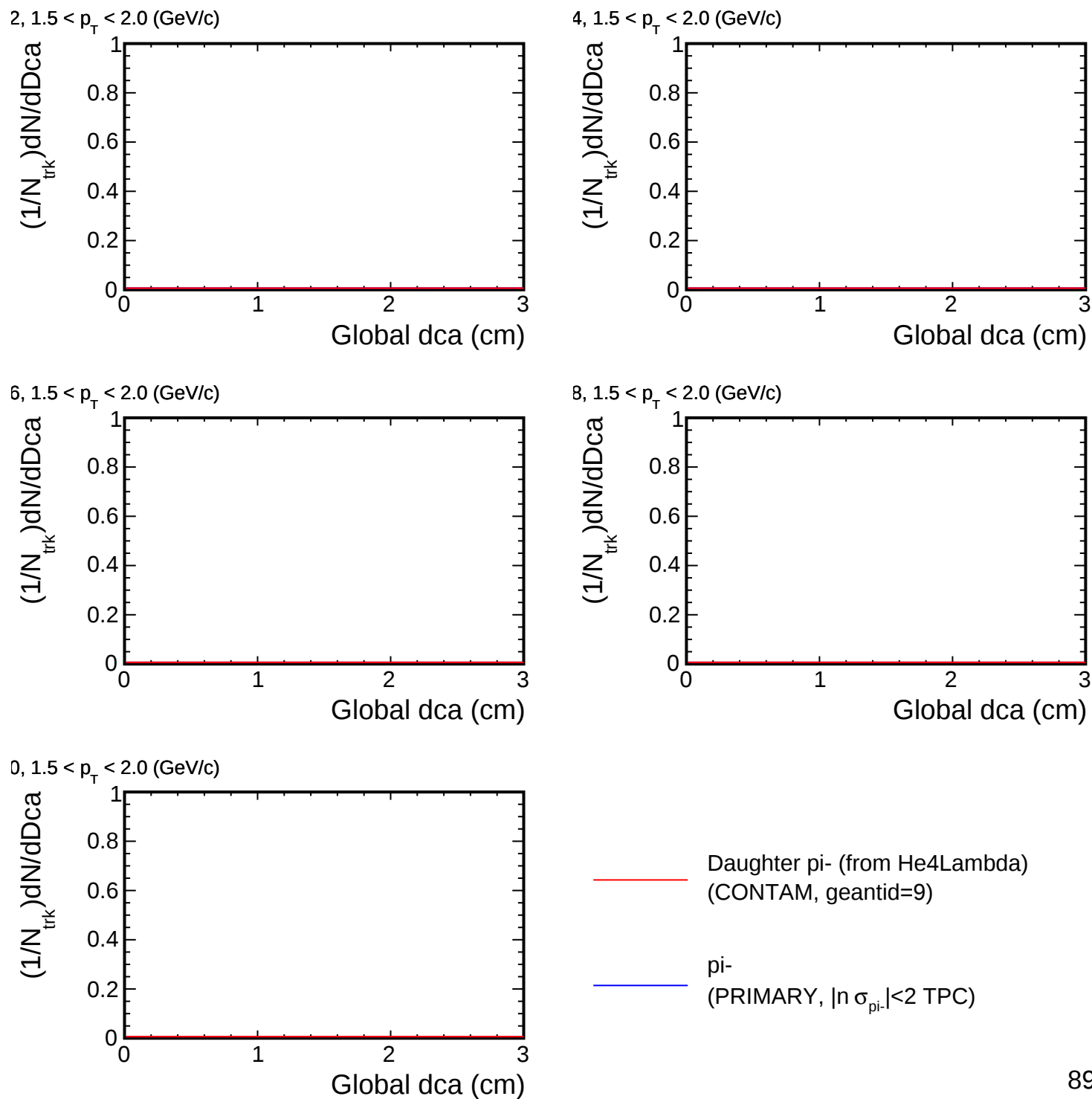
1.0, $1.5 < p_T < 2.0$ (GeV/c)



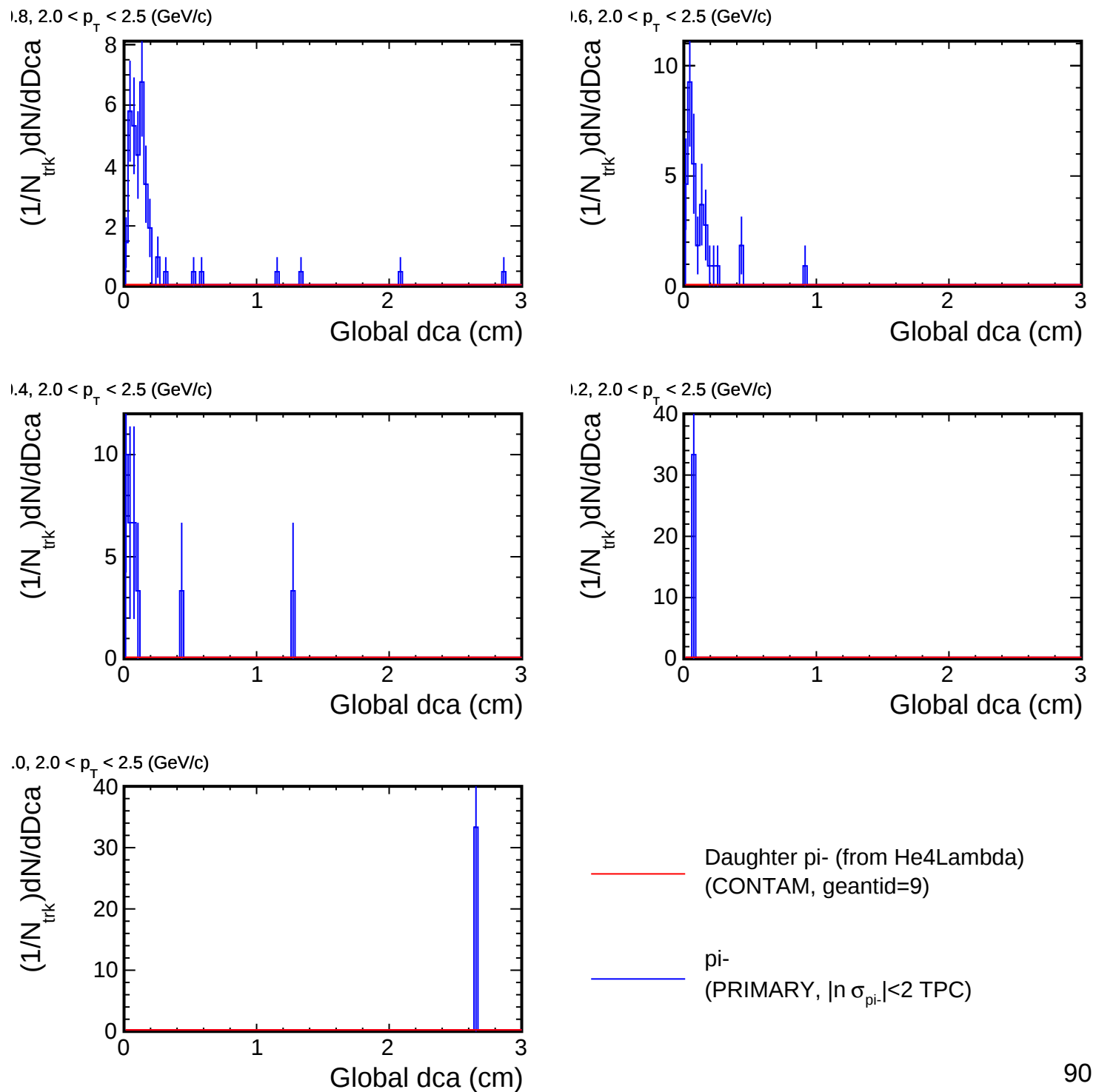
— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

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

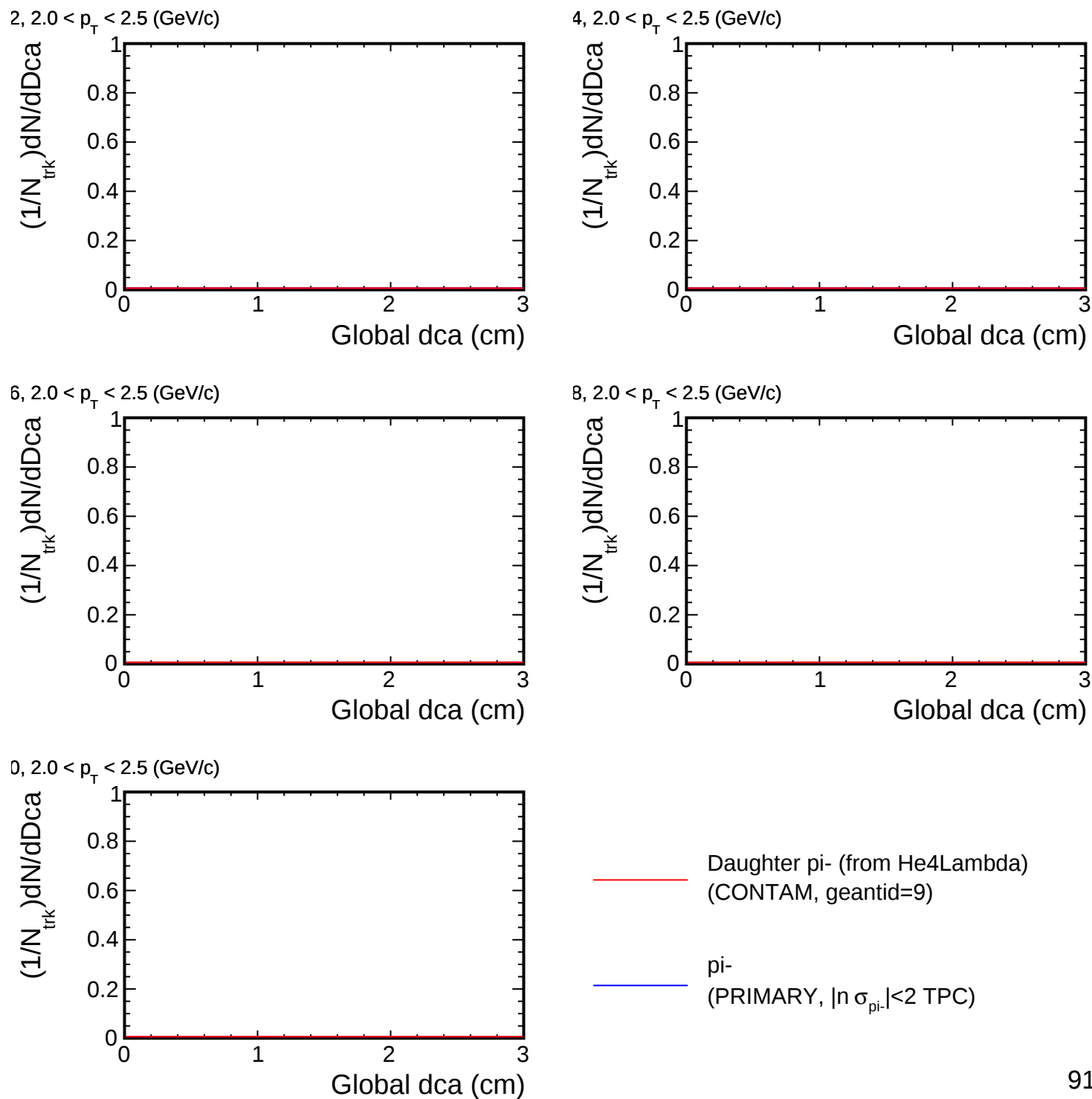
Dca distribution for (p_T , η) slices



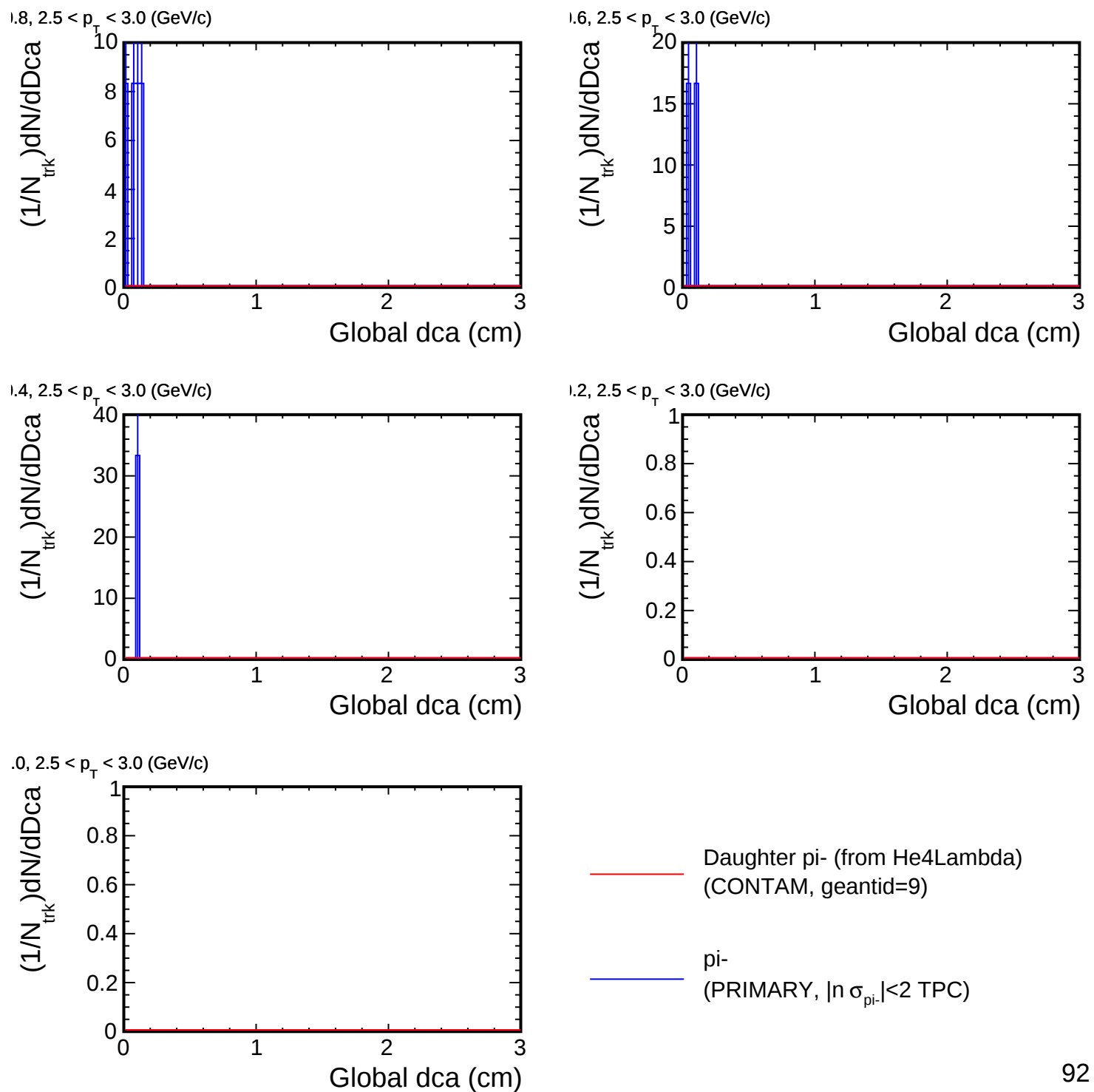
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

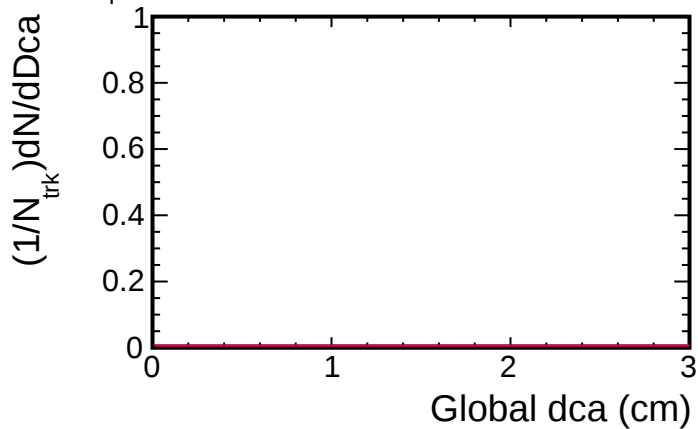


Dca distribution for (p_T , η) slices

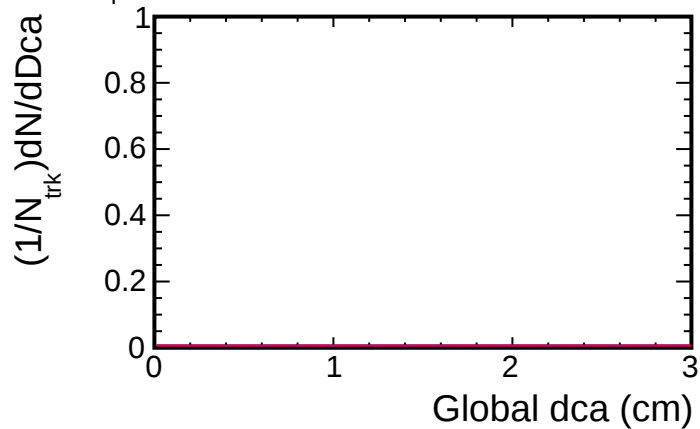


Dca distribution for (p_T , η) slices

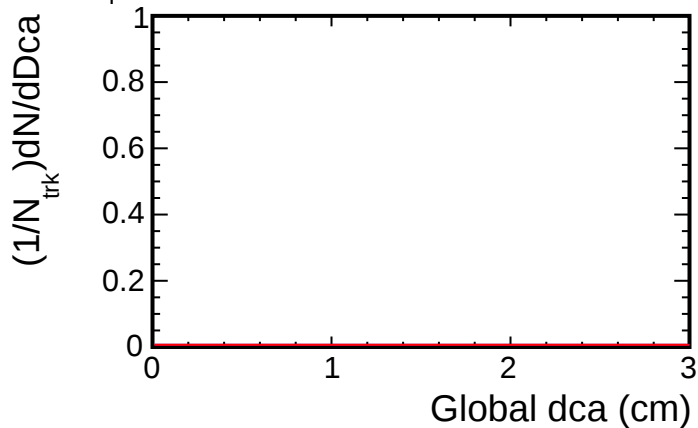
2, $2.5 < p_T < 3.0$ (GeV/c)



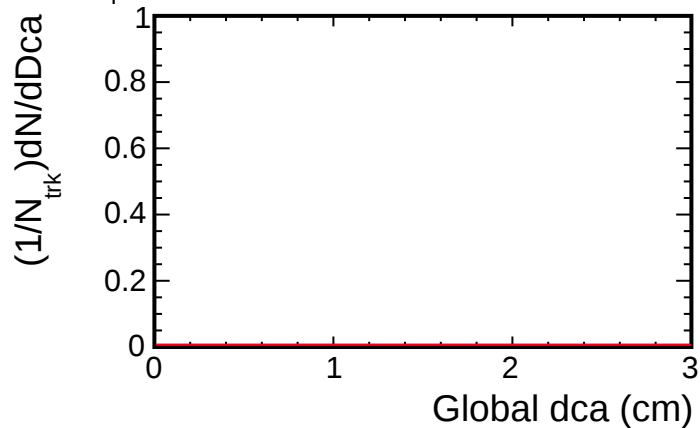
4, $2.5 < p_T < 3.0$ (GeV/c)



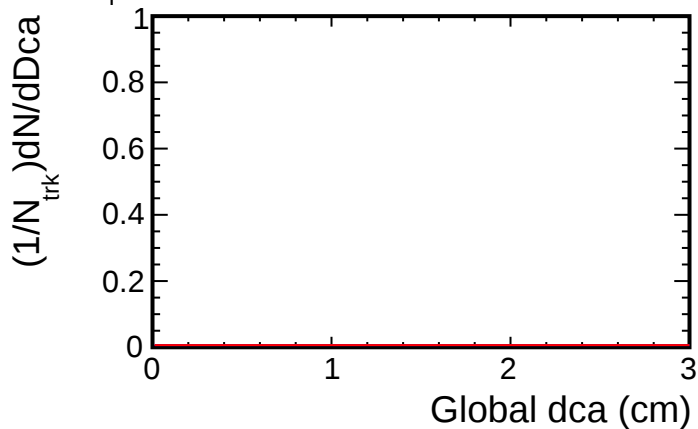
6, $2.5 < p_T < 3.0$ (GeV/c)



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



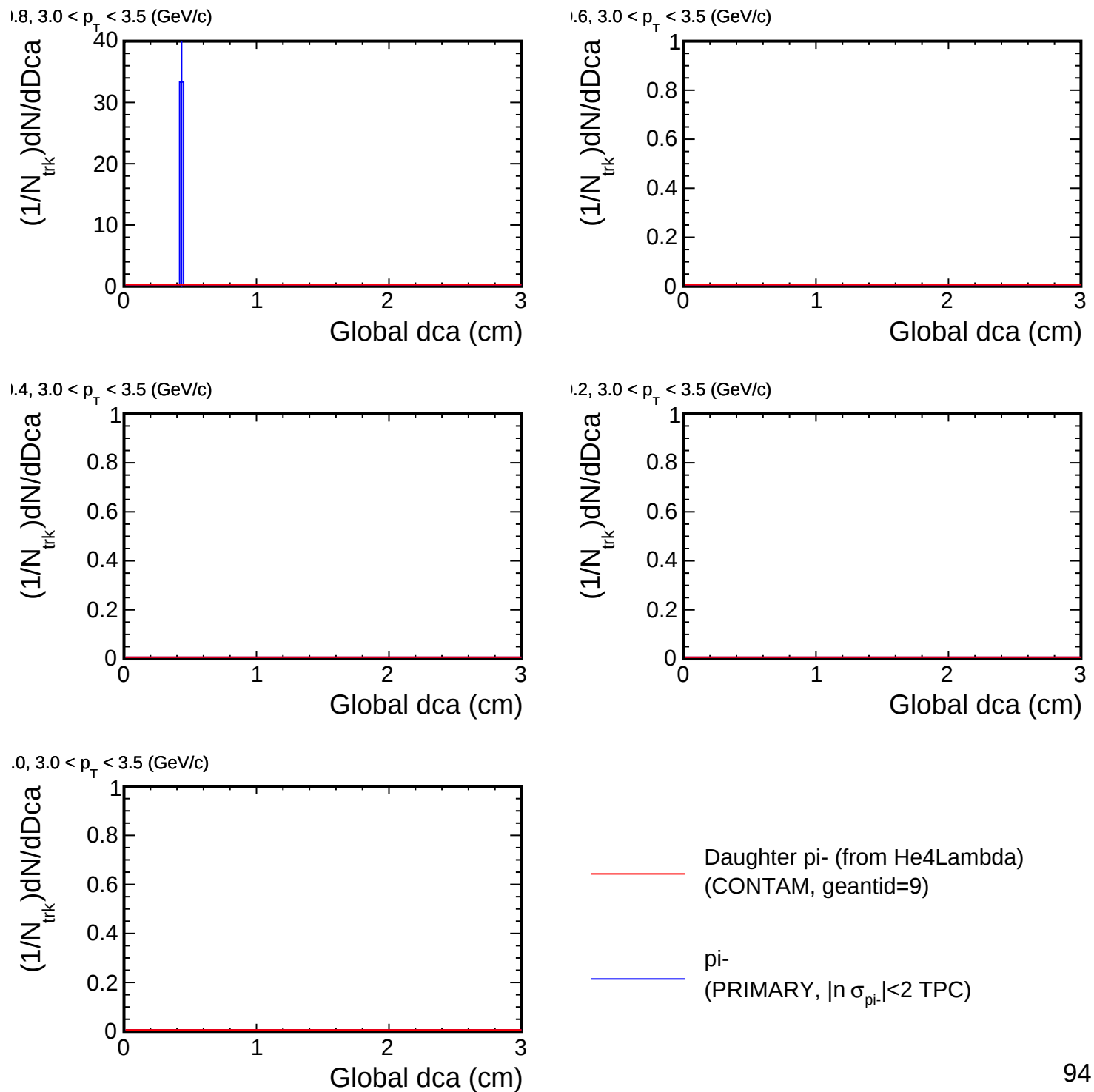
0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

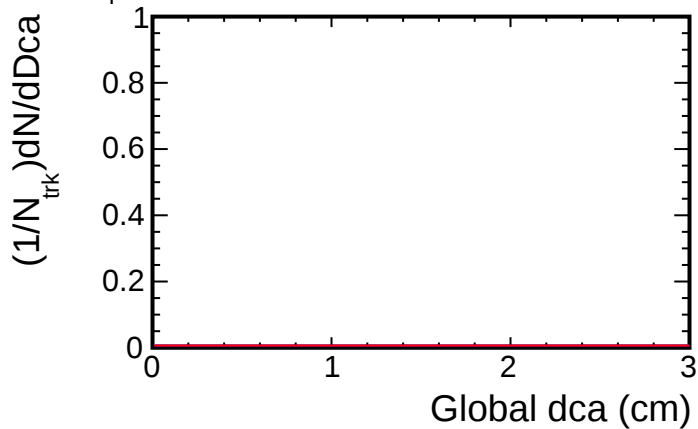
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

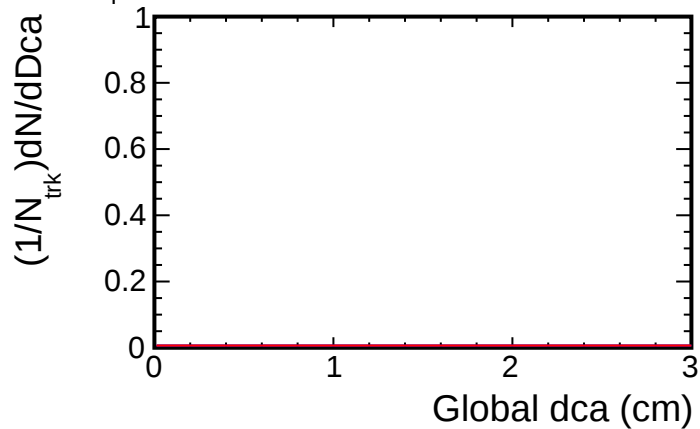


Dca distribution for (p_T , η) slices

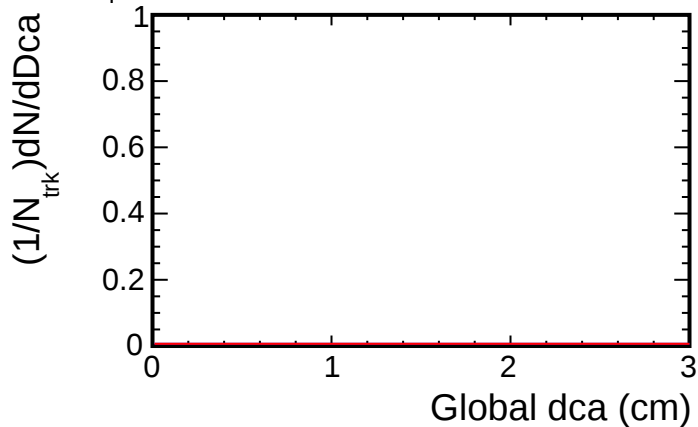
2, $3.0 < p_T < 3.5$ (GeV/c)



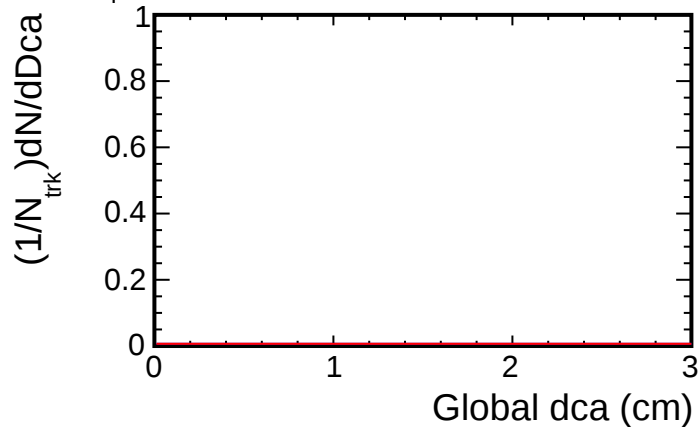
4, $3.0 < p_T < 3.5$ (GeV/c)



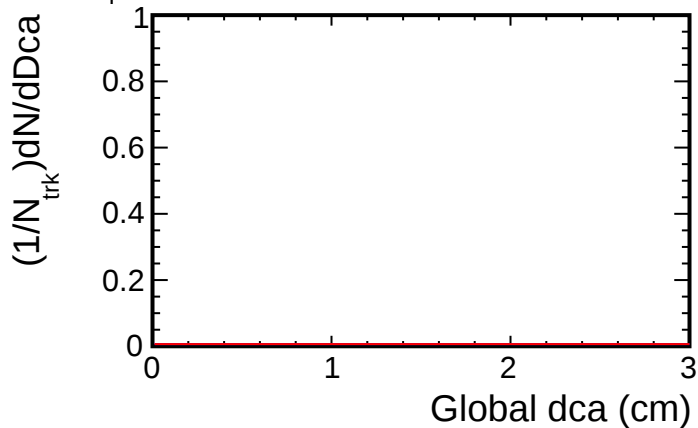
6, $3.0 < p_T < 3.5$ (GeV/c)



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



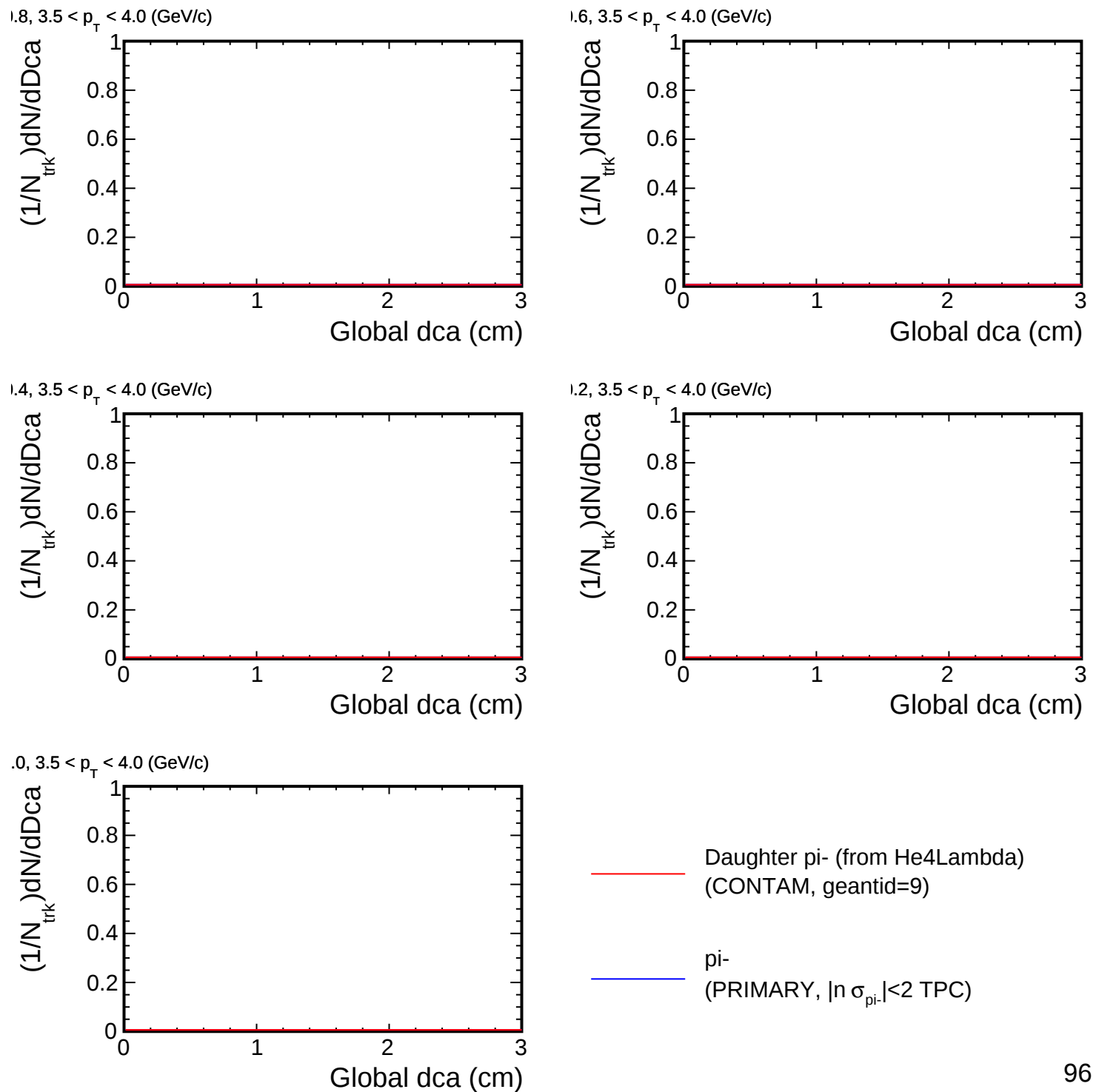
0, $3.0 < p_T < 3.5$ (GeV/c)



— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

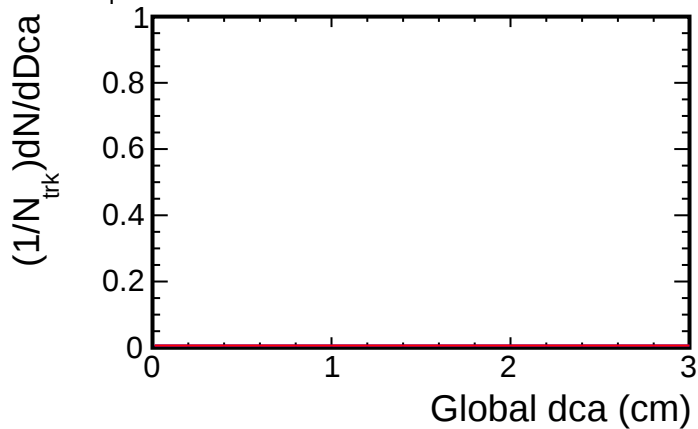
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

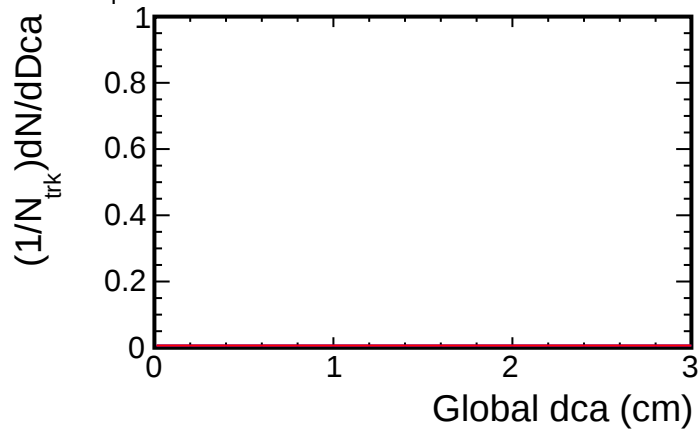


Dca distribution for (p_T , η) slices

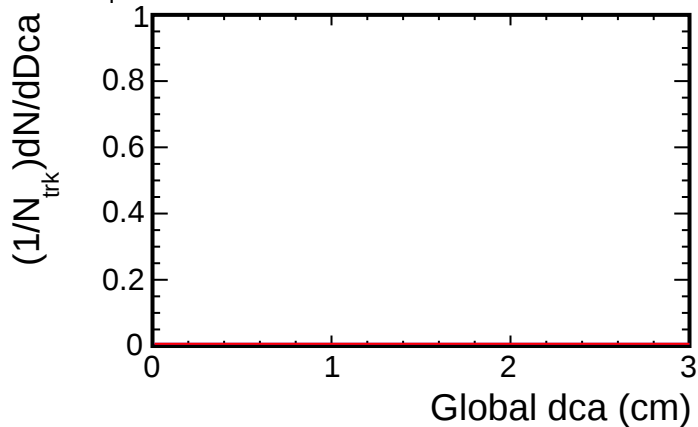
2, $3.5 < p_T < 4.0$ (GeV/c)



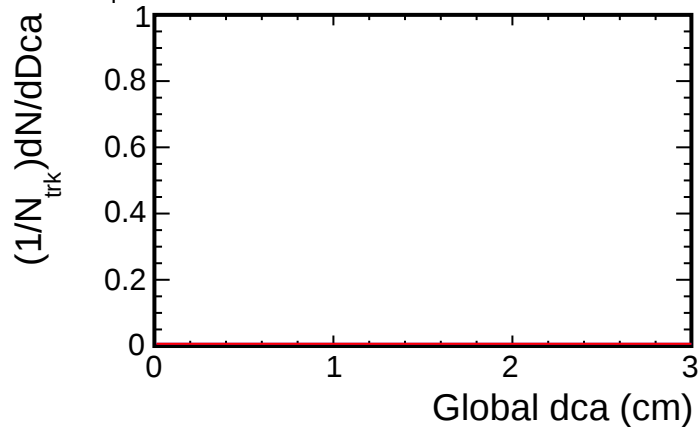
4, $3.5 < p_T < 4.0$ (GeV/c)



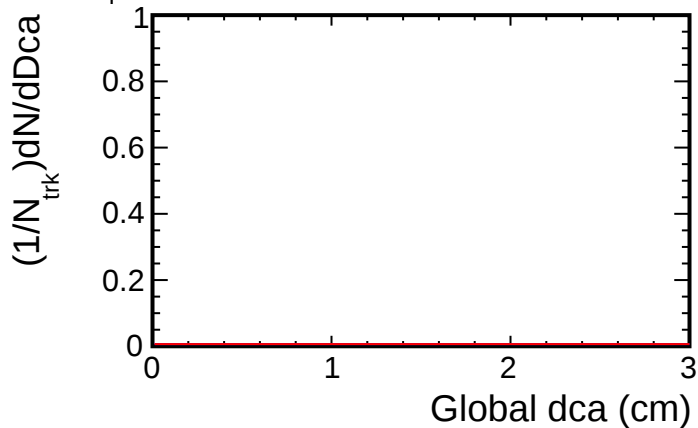
6, $3.5 < p_T < 4.0$ (GeV/c)



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



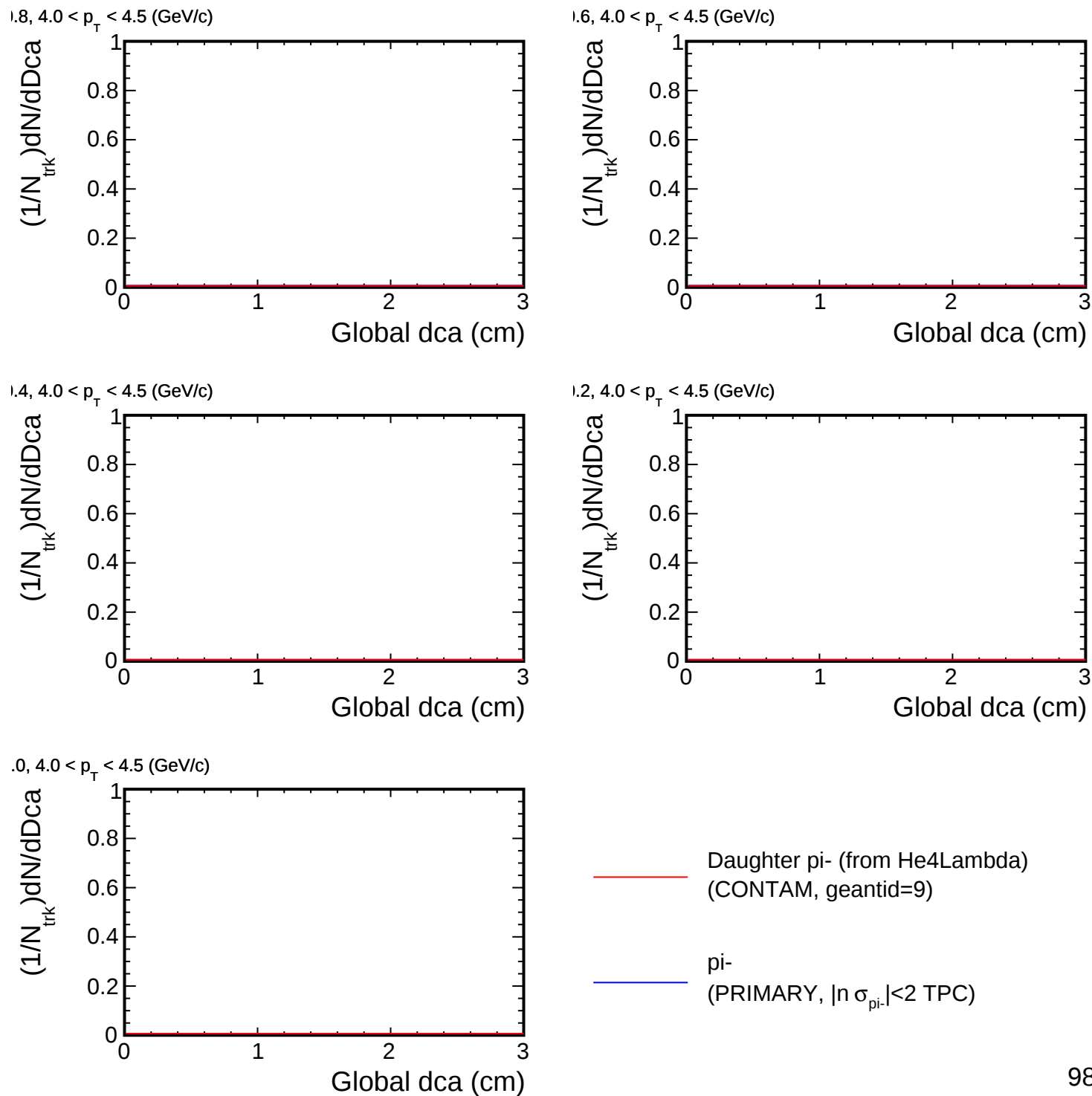
0, $3.5 < p_T < 4.0$ (GeV/c)



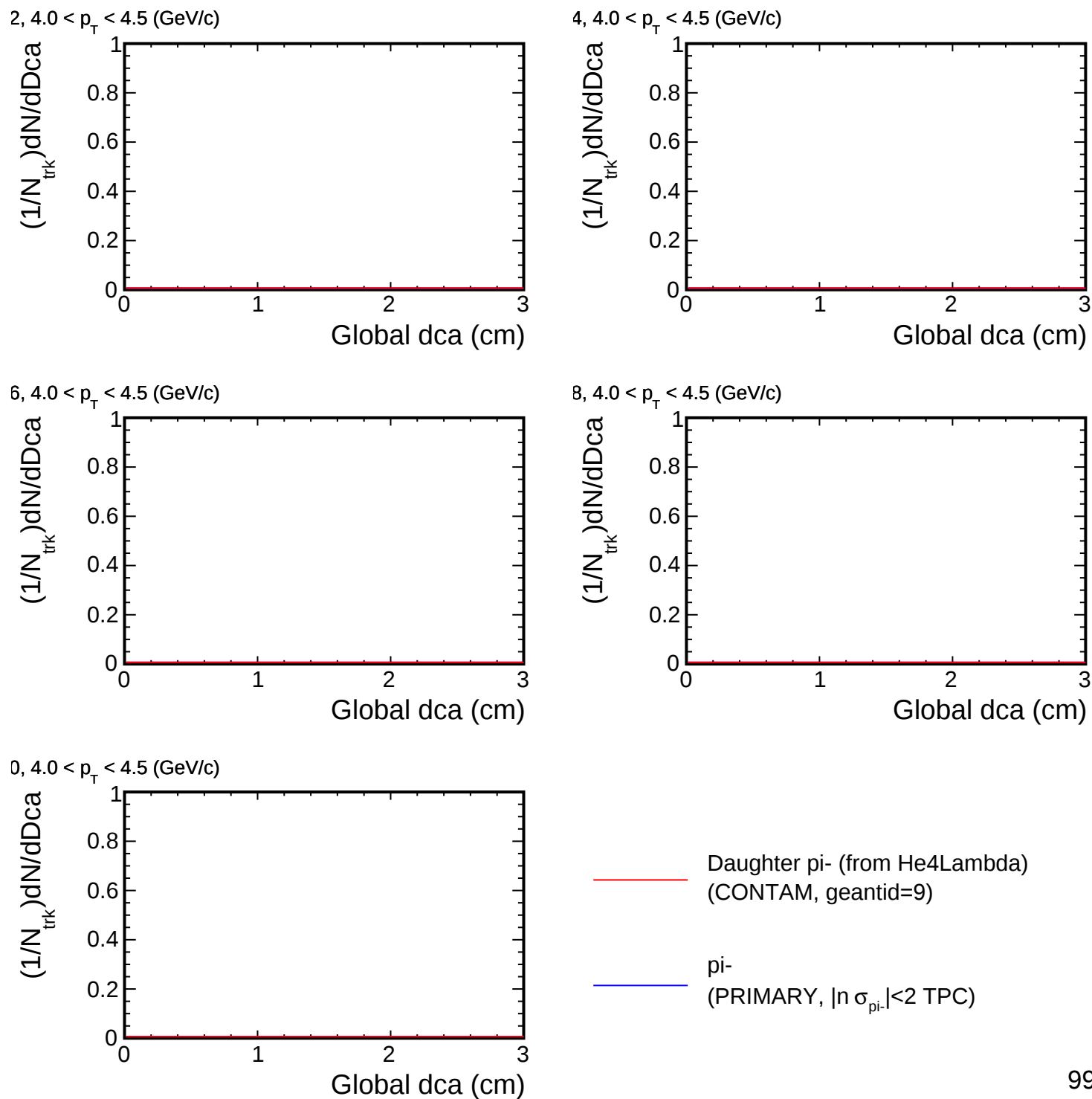
— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

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

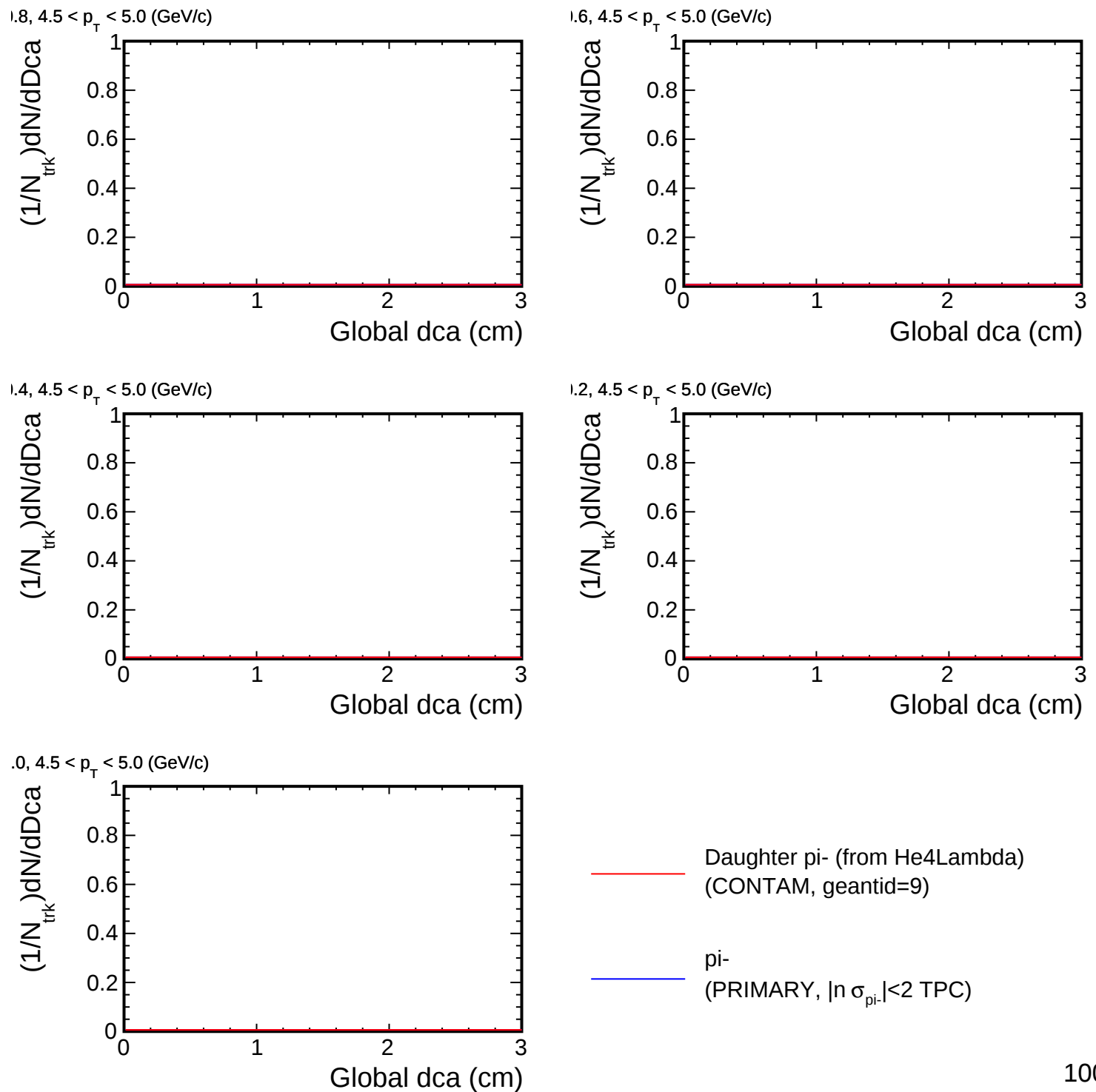
Dca distribution for (p_T , η) slices



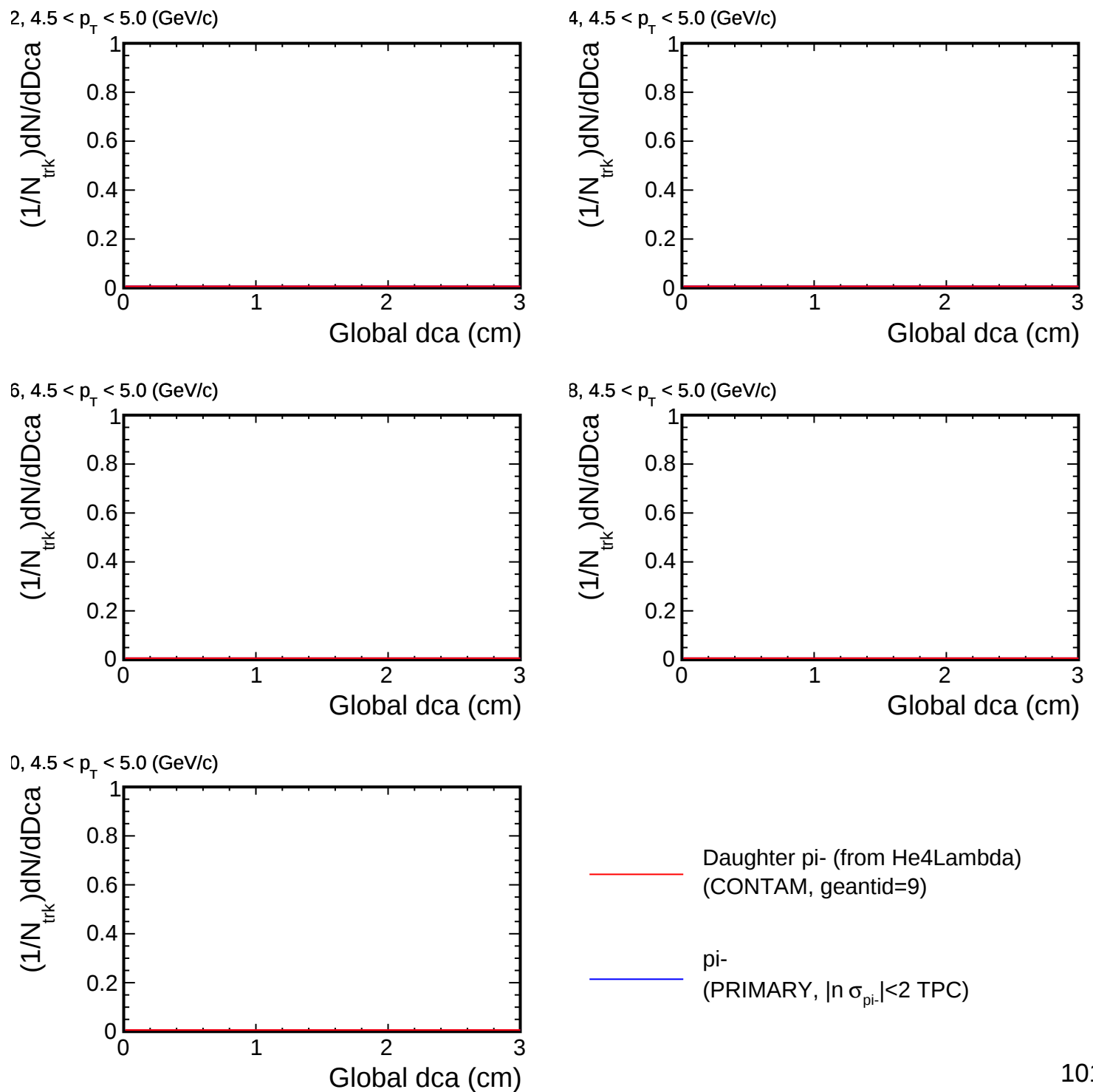
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

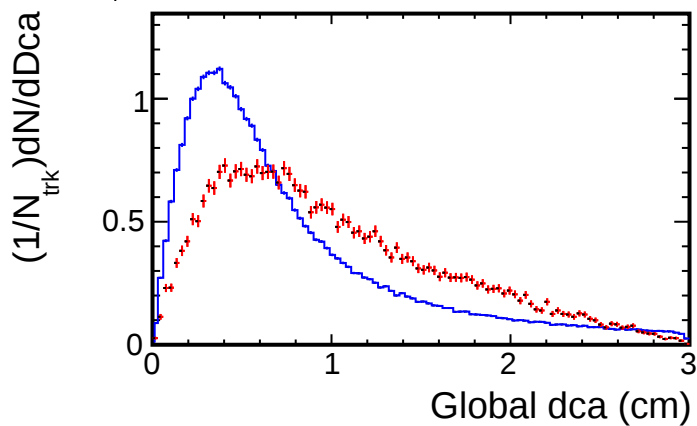


Dca distribution for (p_T , η) slices

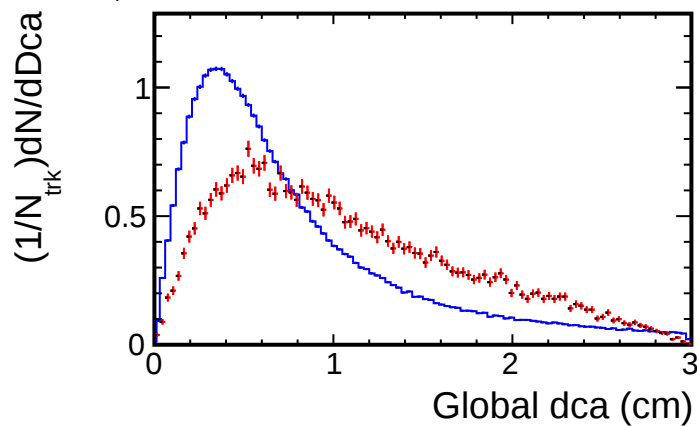


Dca distribution for (p_T , η) slices

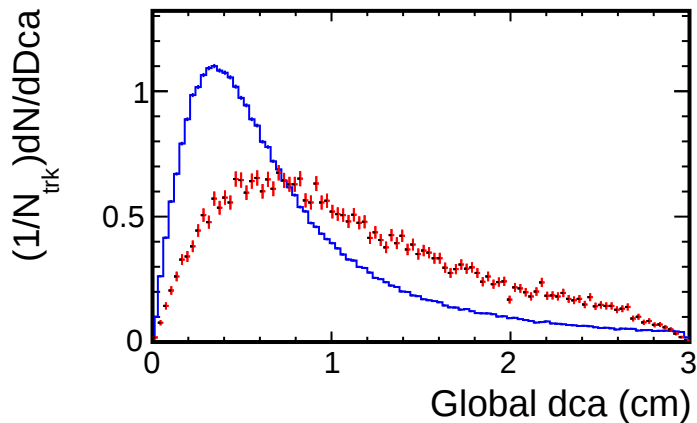
1.8, $0.1 < p_T < 0.5$ (GeV/c)



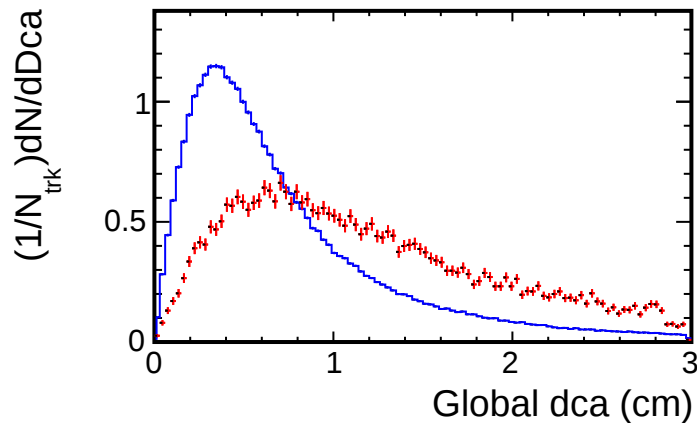
1.6, $0.1 < p_T < 0.5$ (GeV/c)



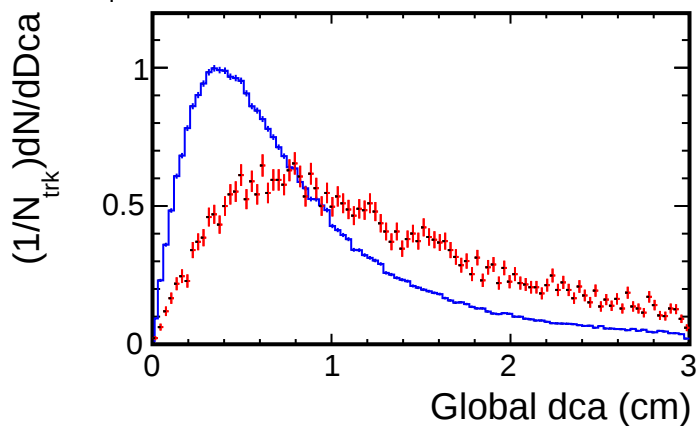
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



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

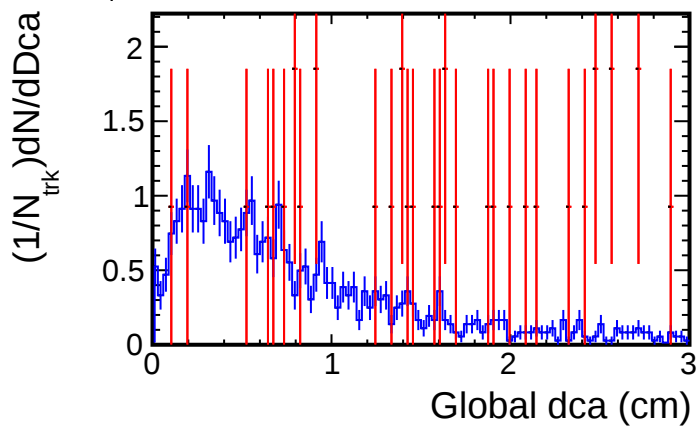


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

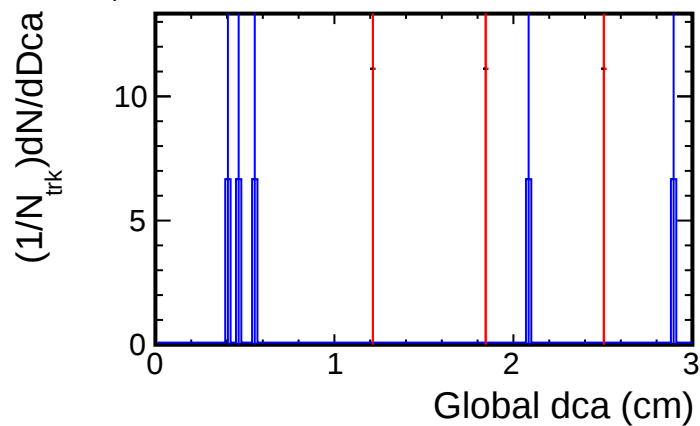
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

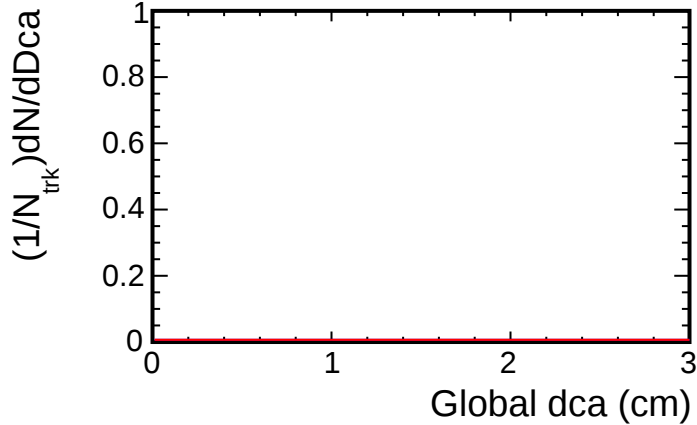
2, $0.1 < p_T < 0.5$ (GeV/c)



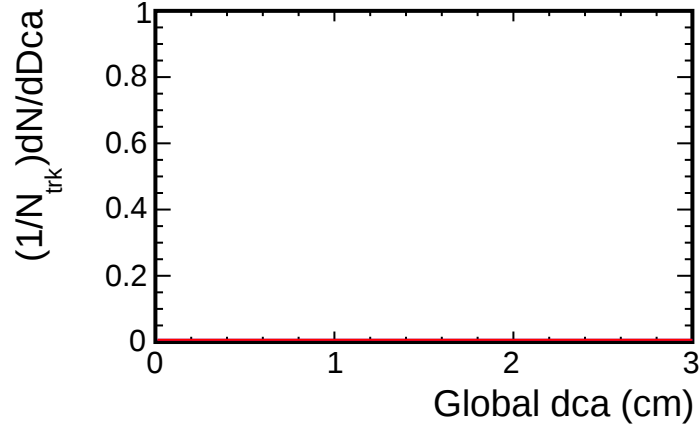
4, $0.1 < p_T < 0.5$ (GeV/c)



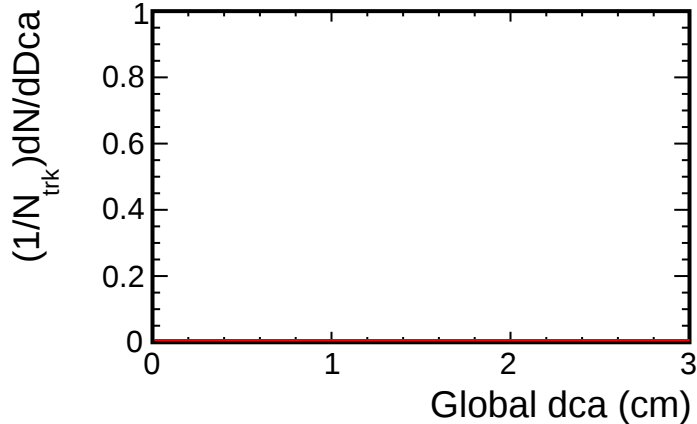
6, $0.1 < p_T < 0.5$ (GeV/c)



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



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

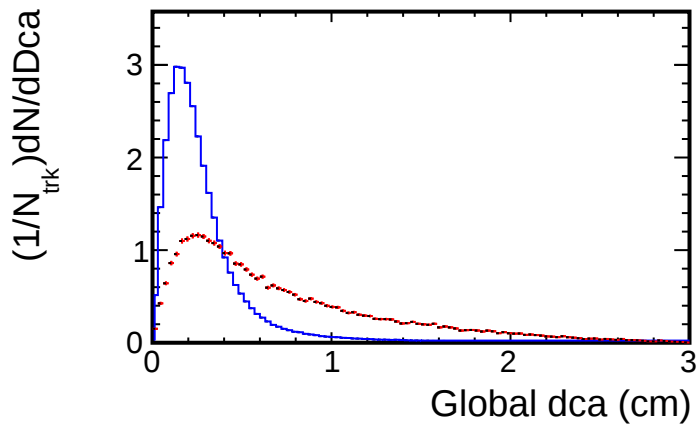


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

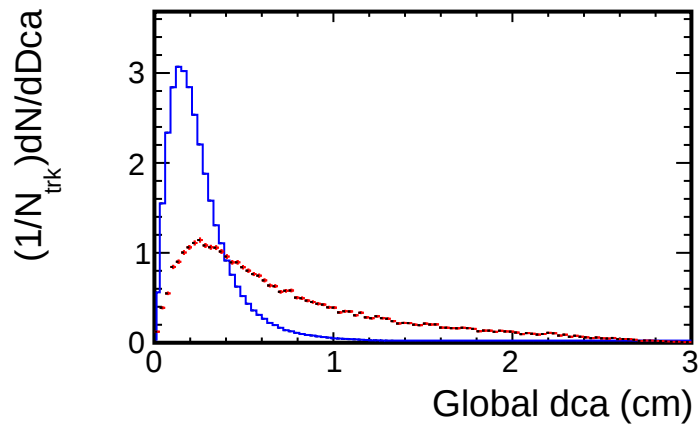
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

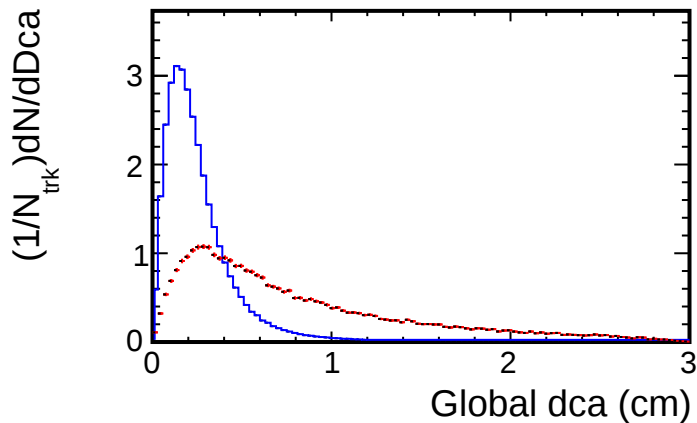
1.8, $0.5 < p_T < 1.0$ (GeV/c)



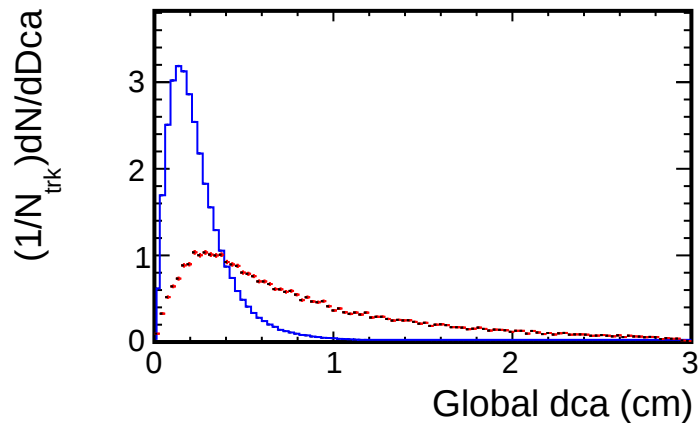
1.6, $0.5 < p_T < 1.0$ (GeV/c)



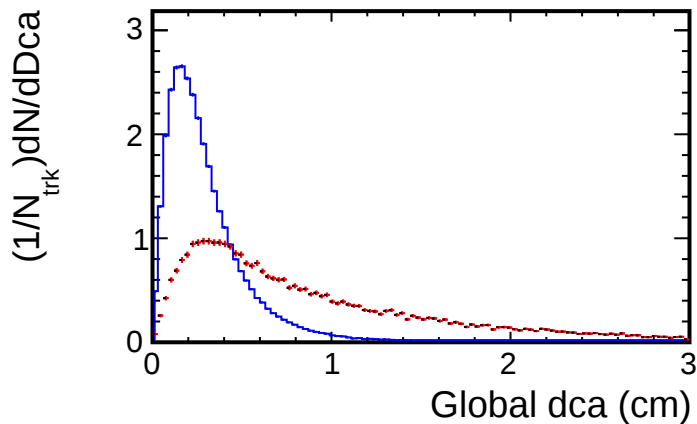
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



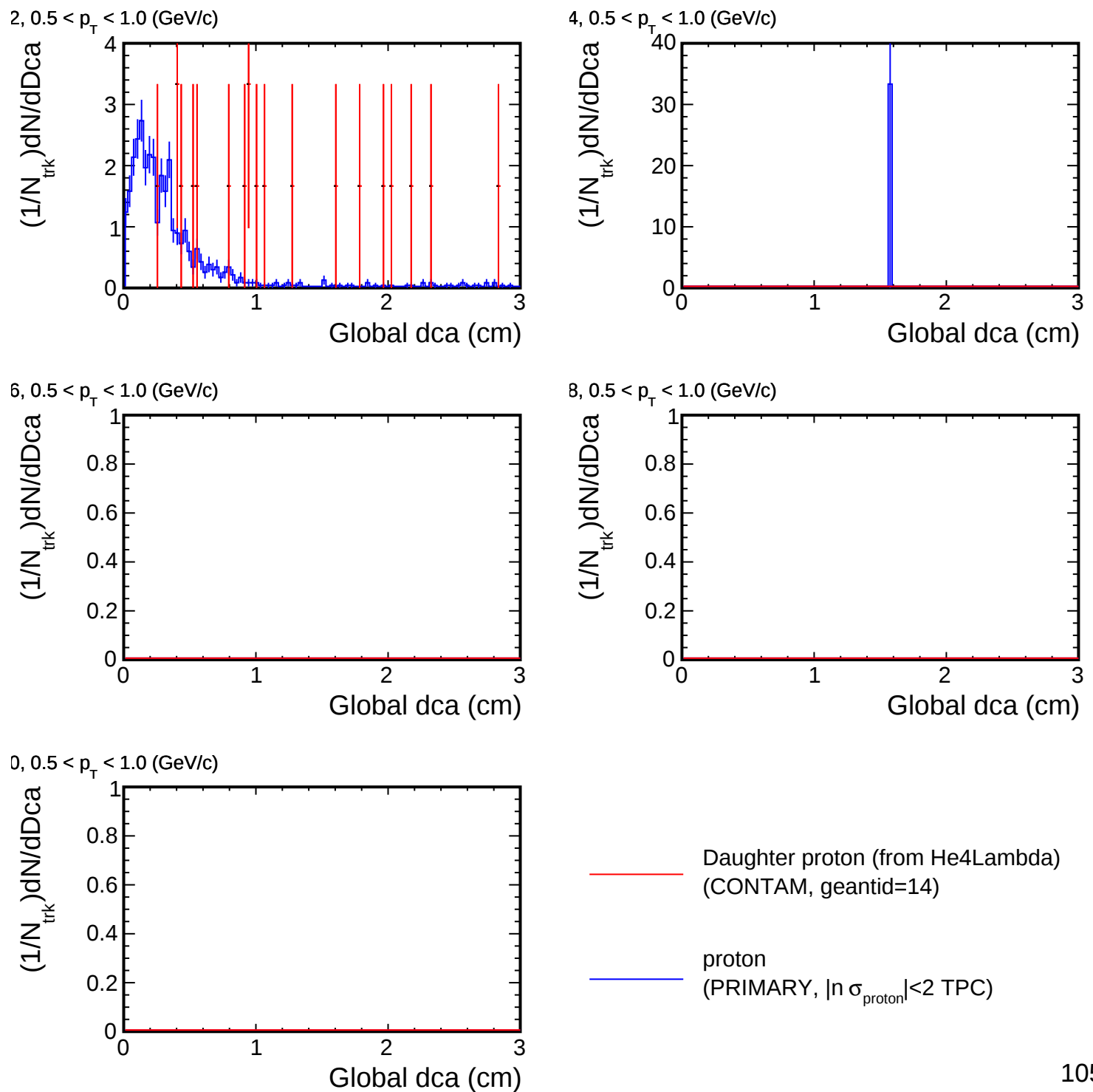
1.0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

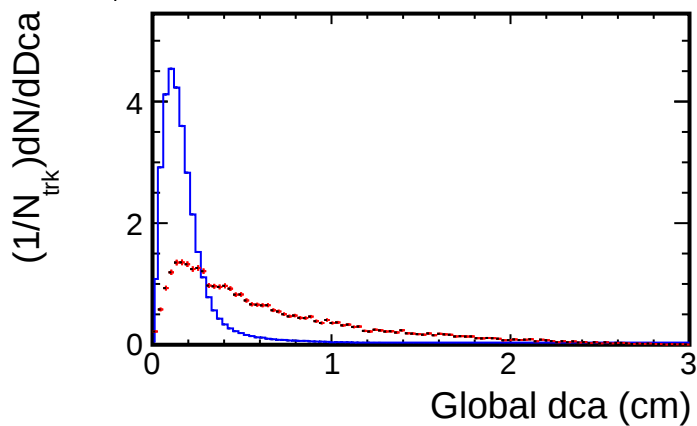
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

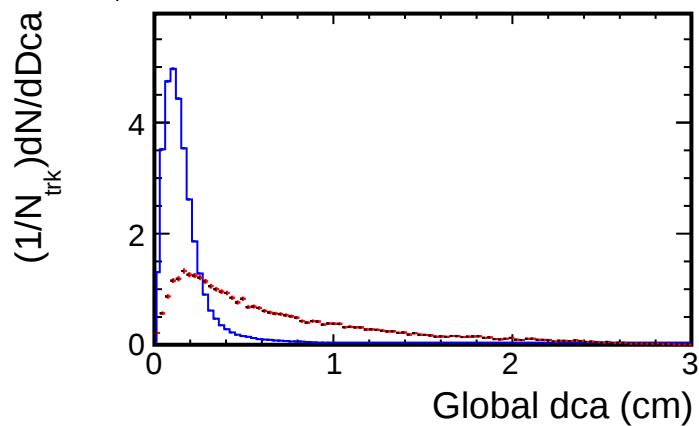


Dca distribution for (p_T , η) slices

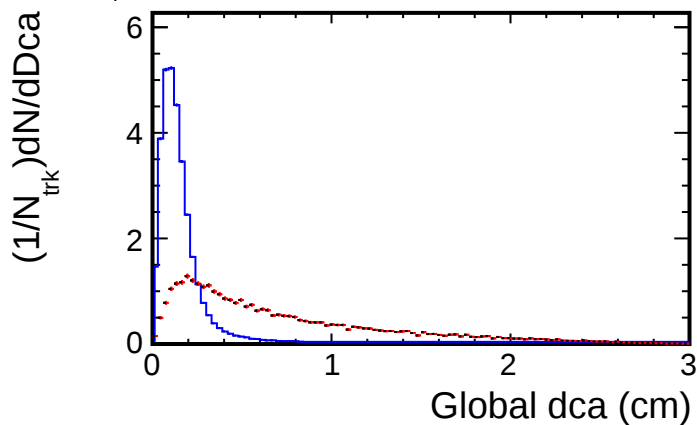
1.8, $1.0 < p_T < 1.5$ (GeV/c)



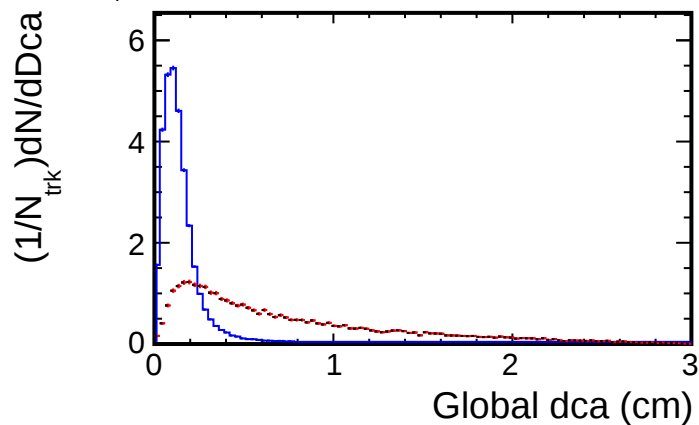
1.6, $1.0 < p_T < 1.5$ (GeV/c)



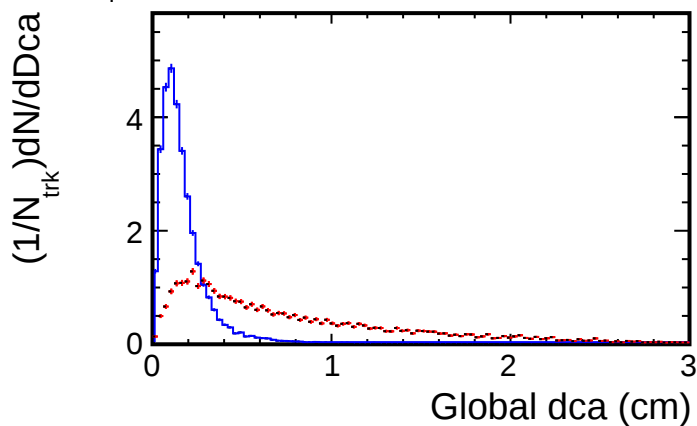
1.4, $1.0 < p_T < 1.5$ (GeV/c)



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



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

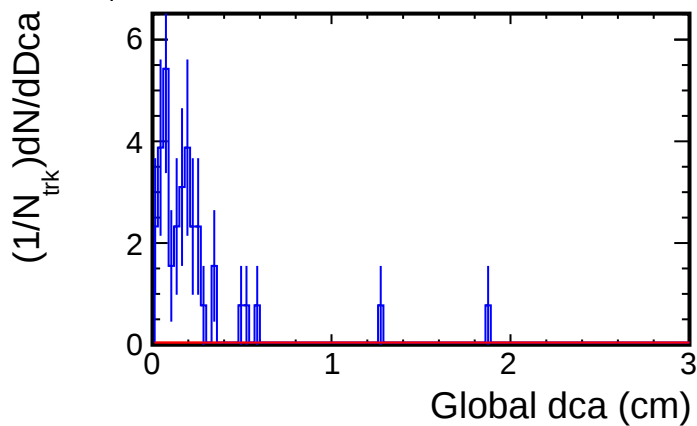


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

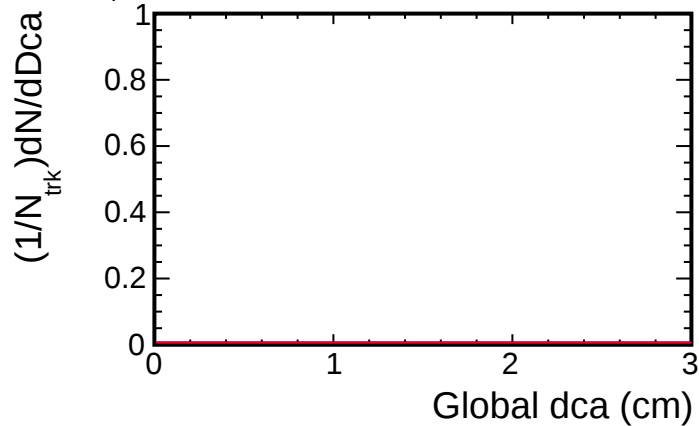
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

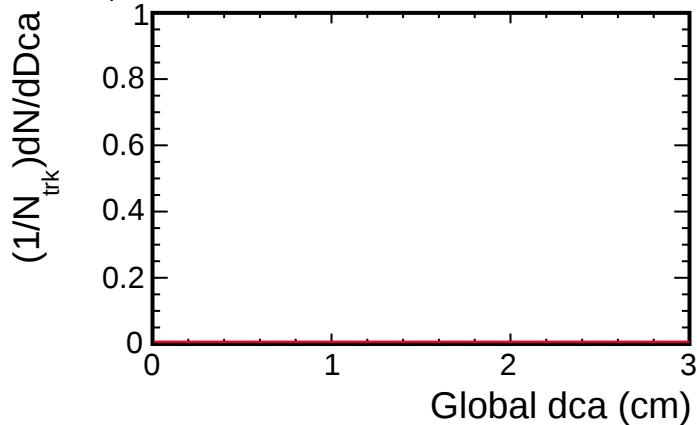
2, $1.0 < p_T < 1.5$ (GeV/c)



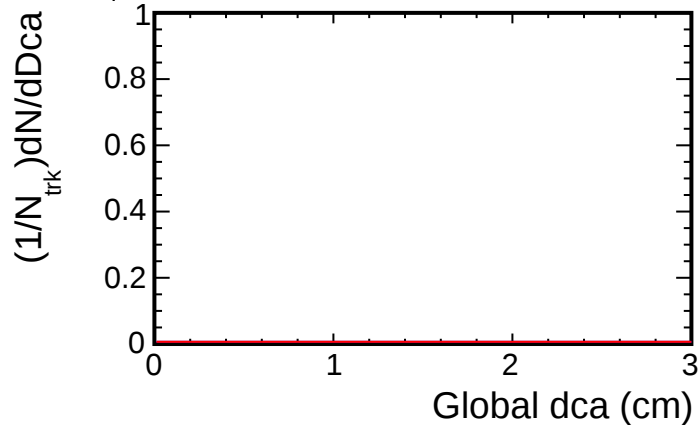
4, $1.0 < p_T < 1.5$ (GeV/c)



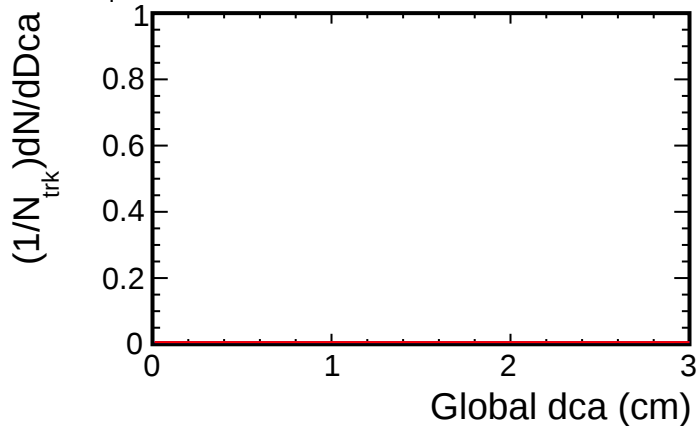
6, $1.0 < p_T < 1.5$ (GeV/c)



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



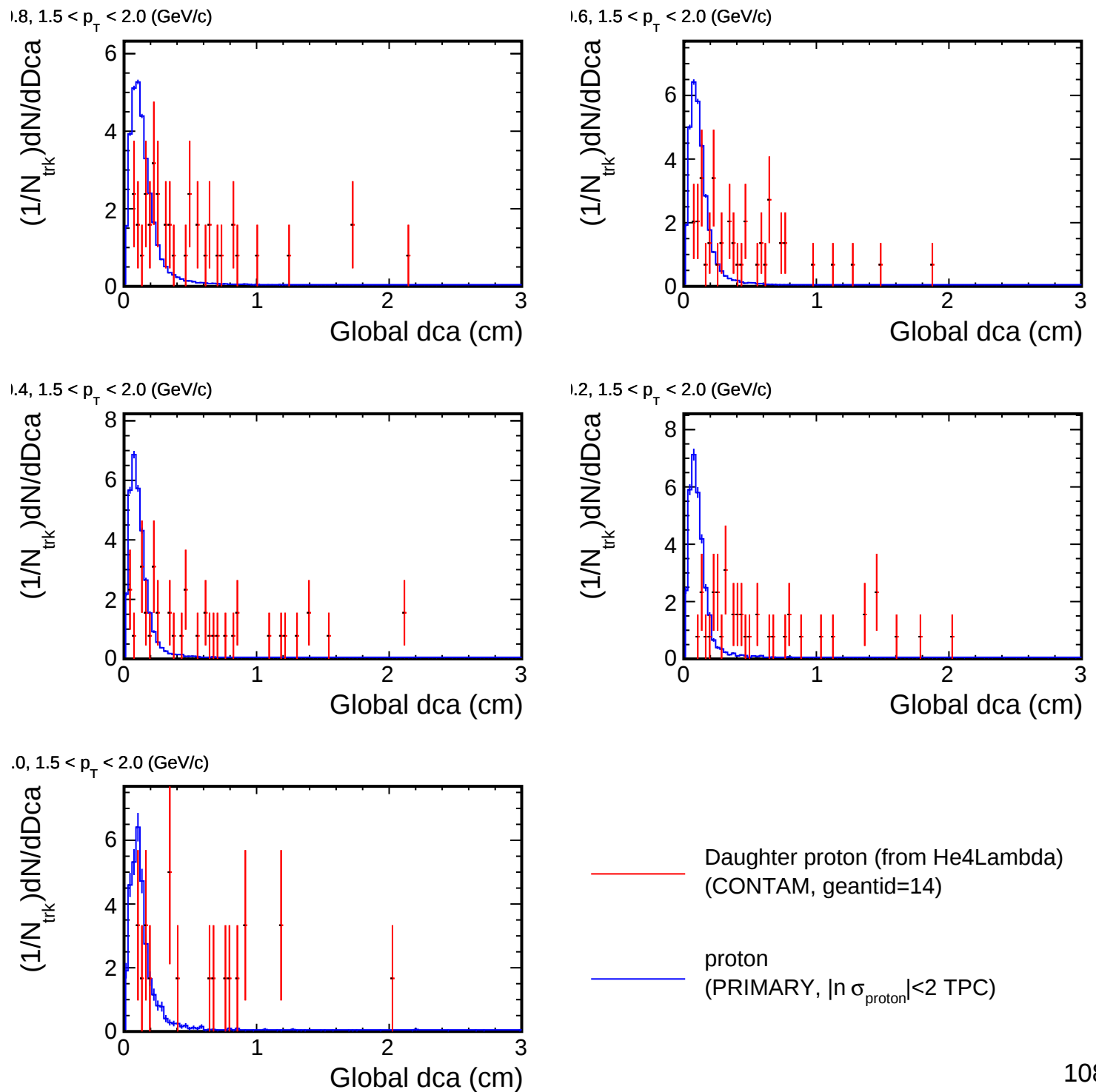
0, $1.0 < p_T < 1.5$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

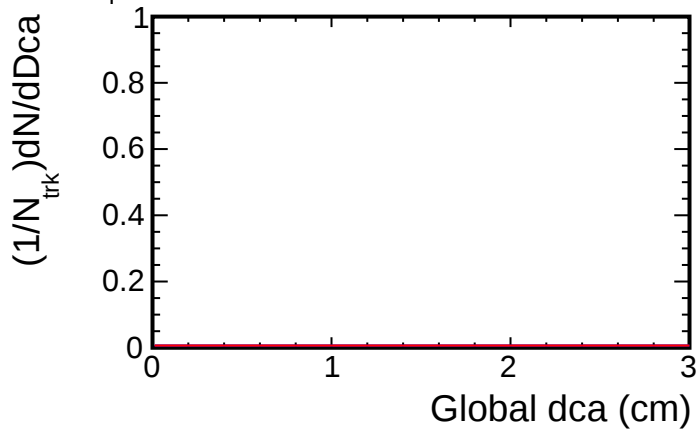
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

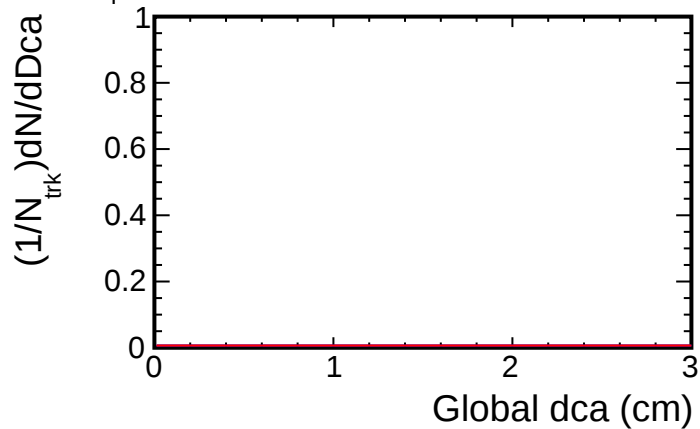


Dca distribution for (p_T , η) slices

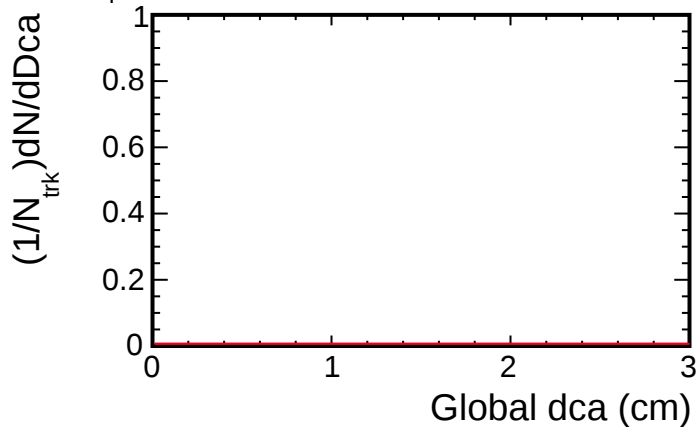
2, $1.5 < p_T < 2.0$ (GeV/c)



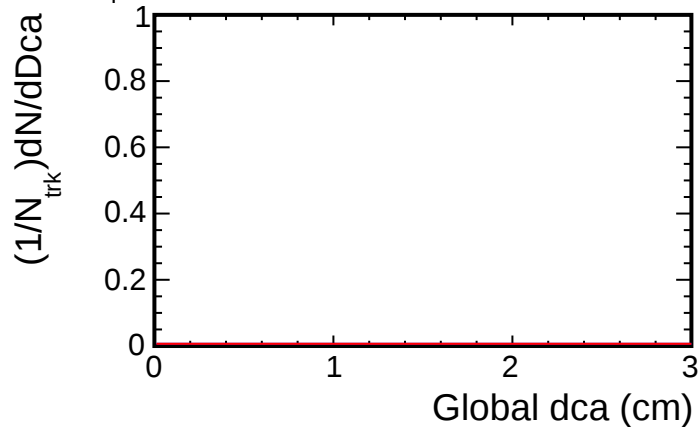
4, $1.5 < p_T < 2.0$ (GeV/c)



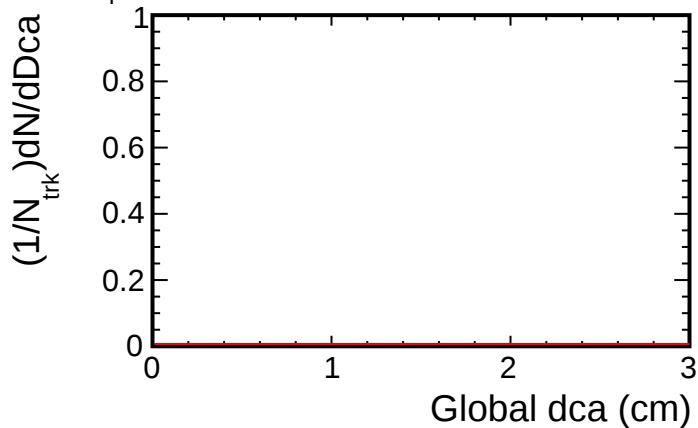
6, $1.5 < p_T < 2.0$ (GeV/c)



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



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

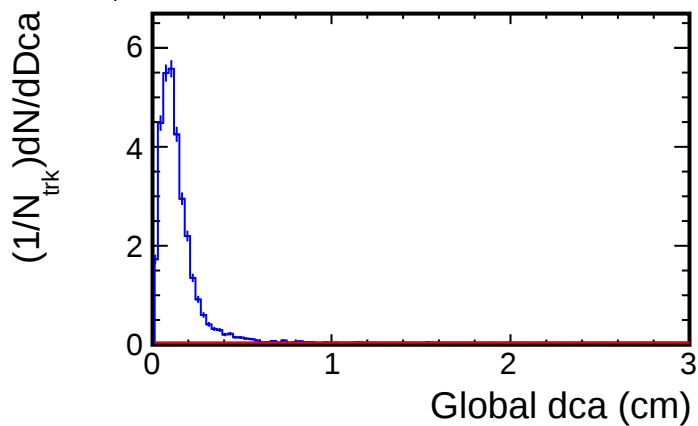


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

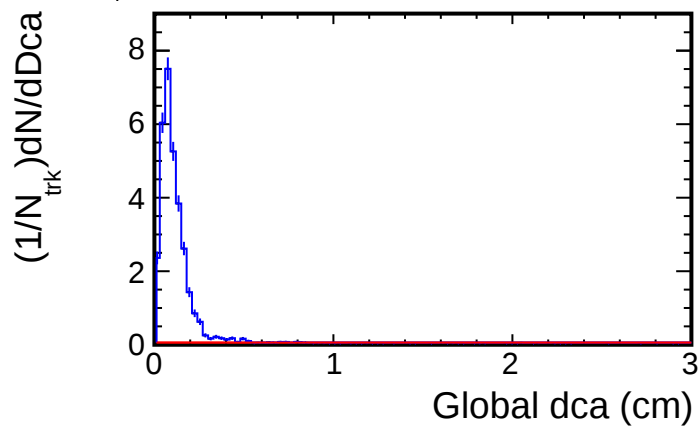
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

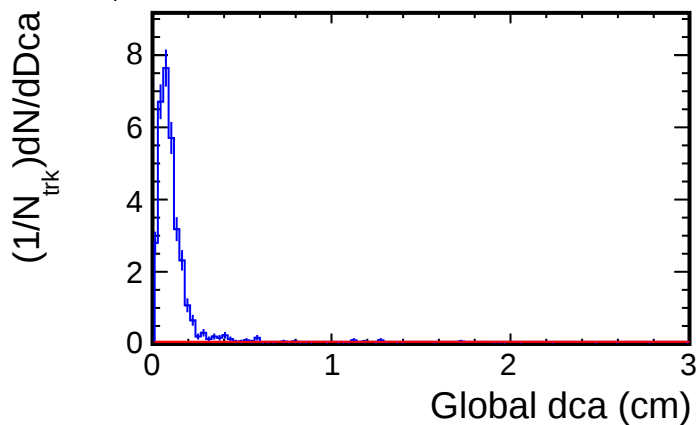
1.8, $2.0 < p_T < 2.5$ (GeV/c)



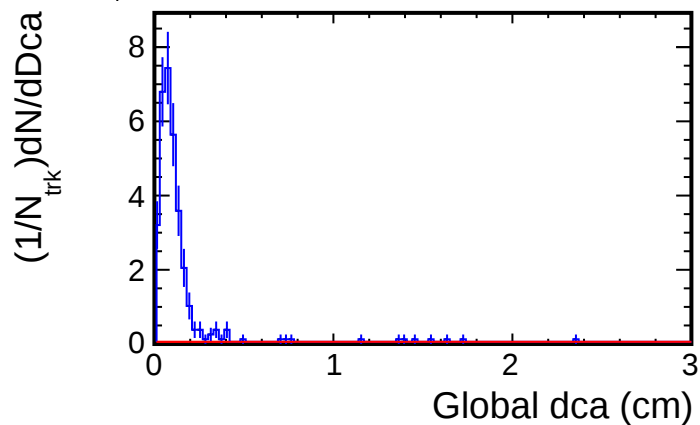
1.6, $2.0 < p_T < 2.5$ (GeV/c)



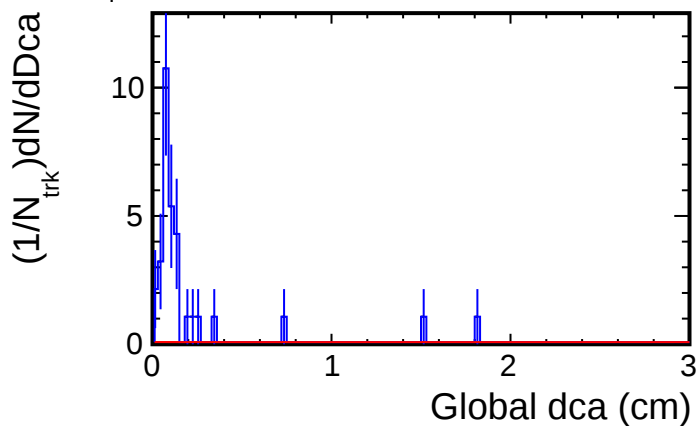
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



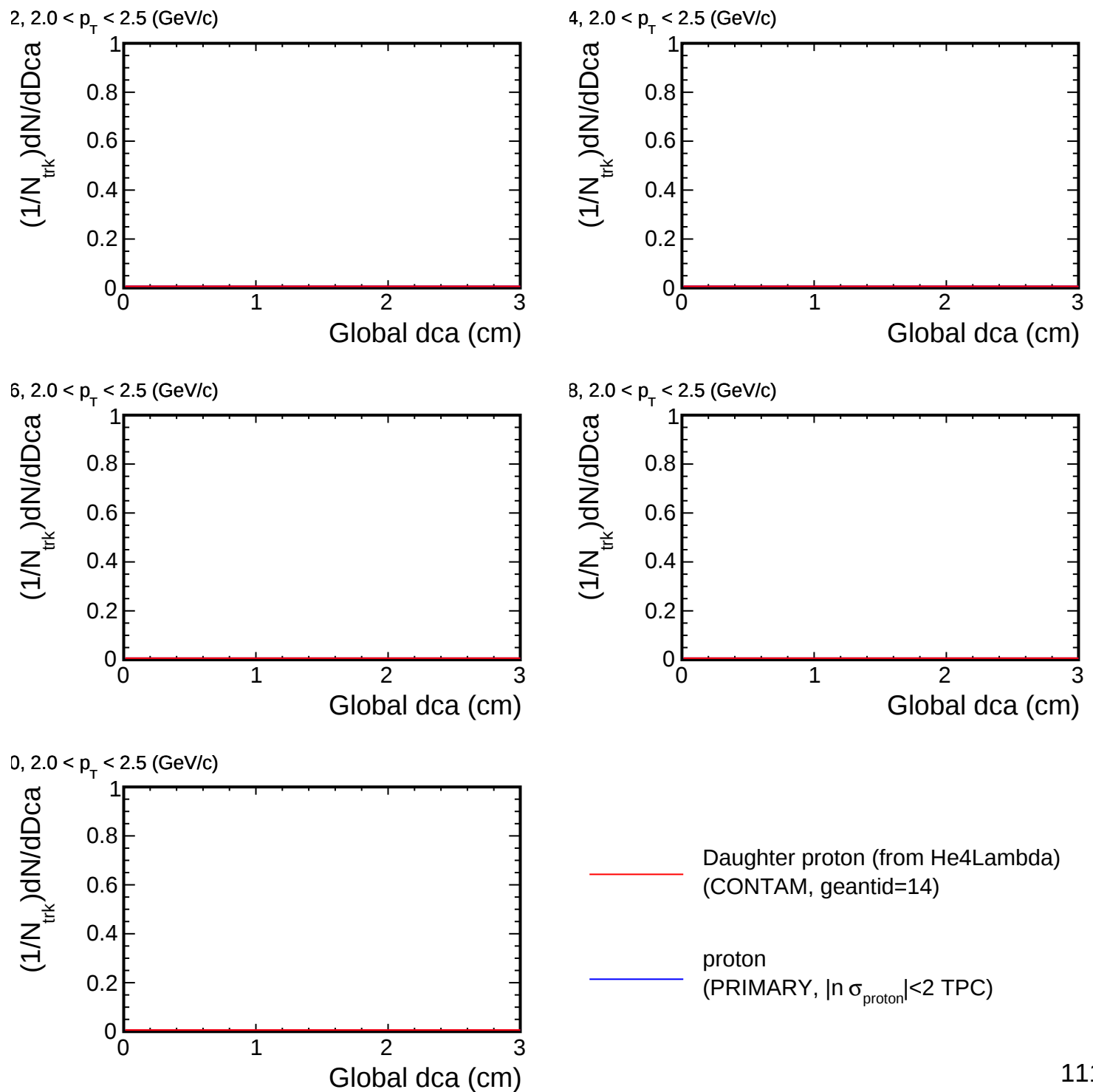
1.0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

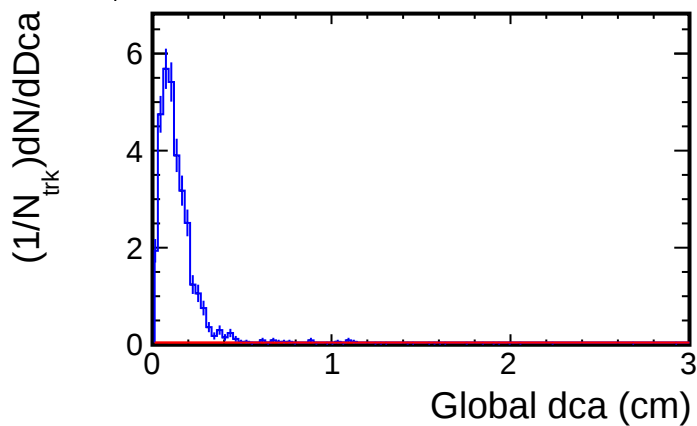
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

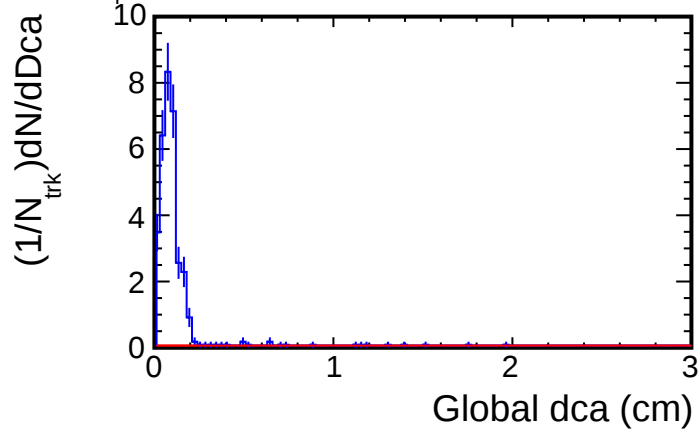


Dca distribution for (p_T , η) slices

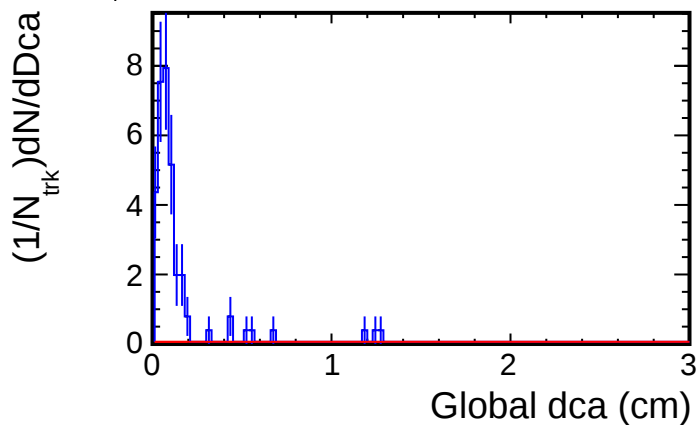
1.8, $2.5 < p_T < 3.0$ (GeV/c)



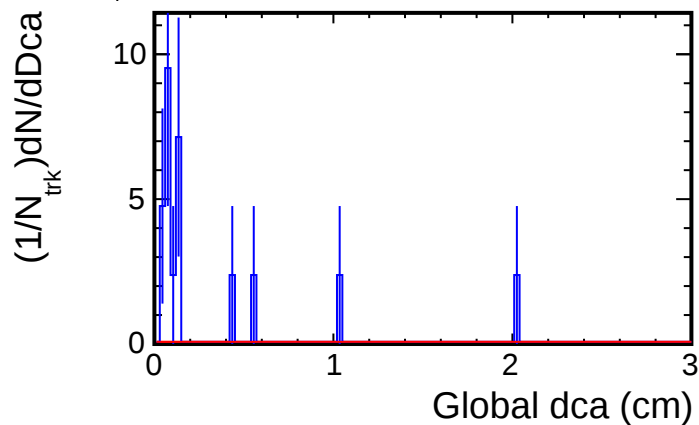
1.6, $2.5 < p_T < 3.0$ (GeV/c)



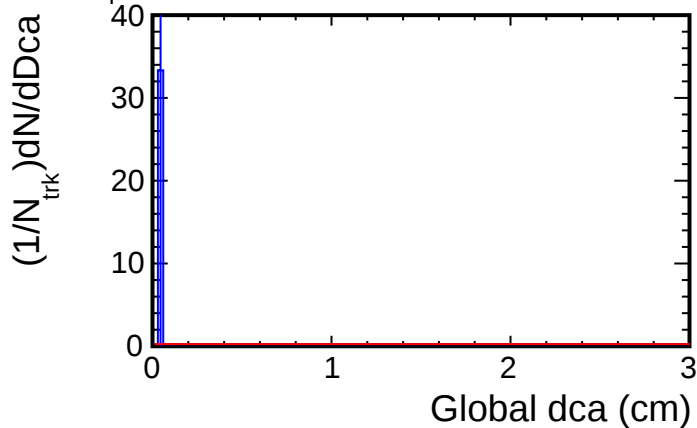
1.4, $2.5 < p_T < 3.0$ (GeV/c)



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



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

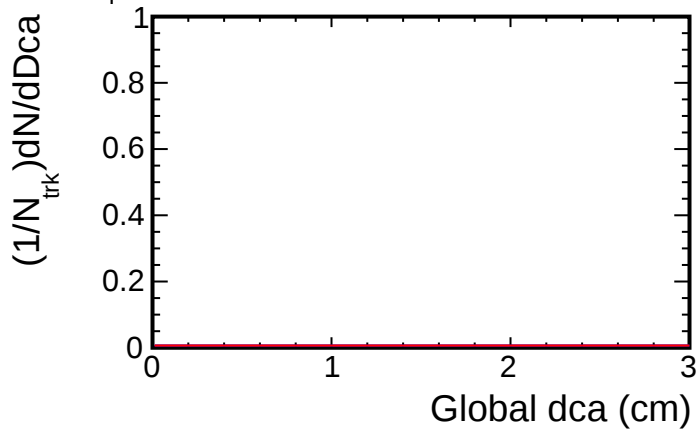


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

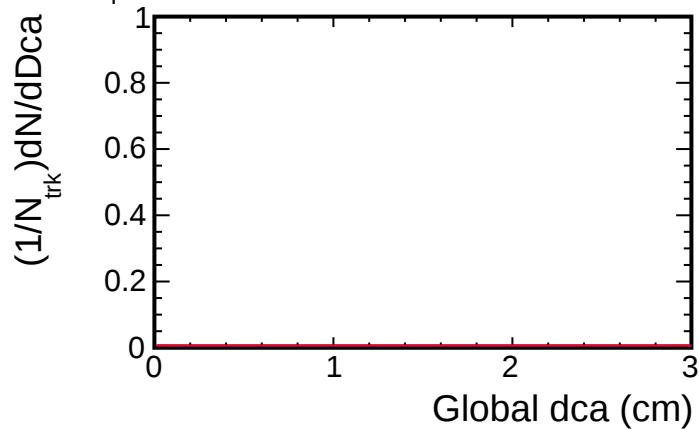
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

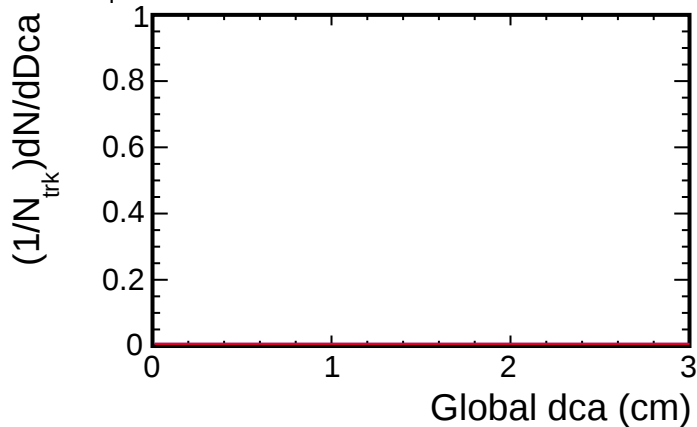
2, $2.5 < p_T < 3.0$ (GeV/c)



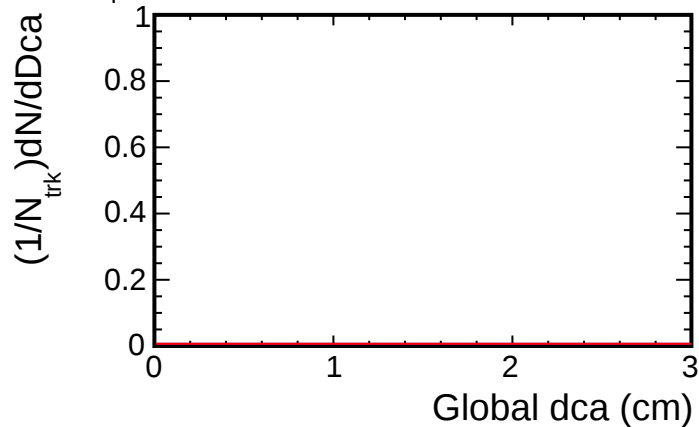
4, $2.5 < p_T < 3.0$ (GeV/c)



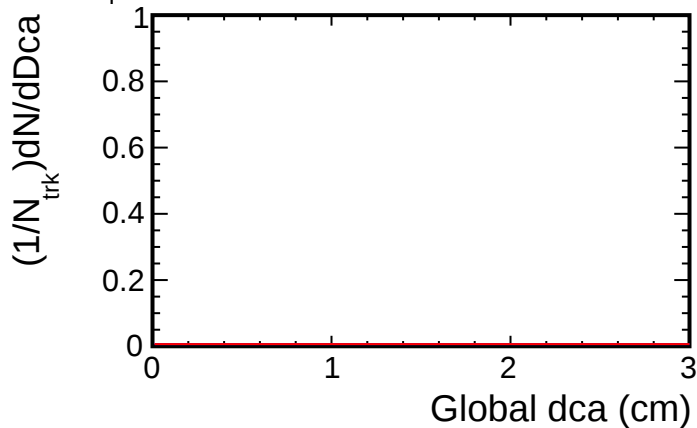
6, $2.5 < p_T < 3.0$ (GeV/c)



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



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

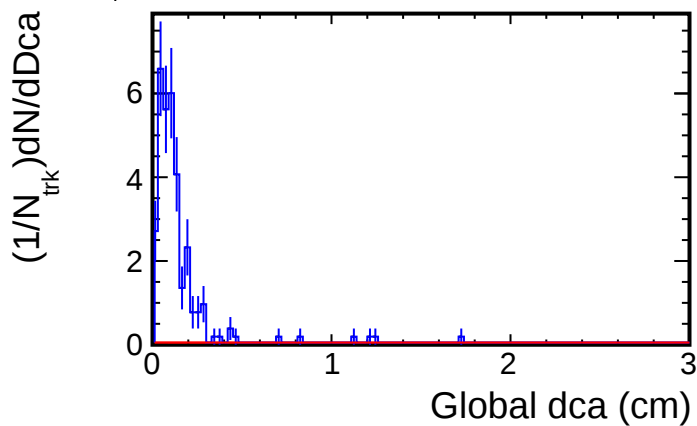


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

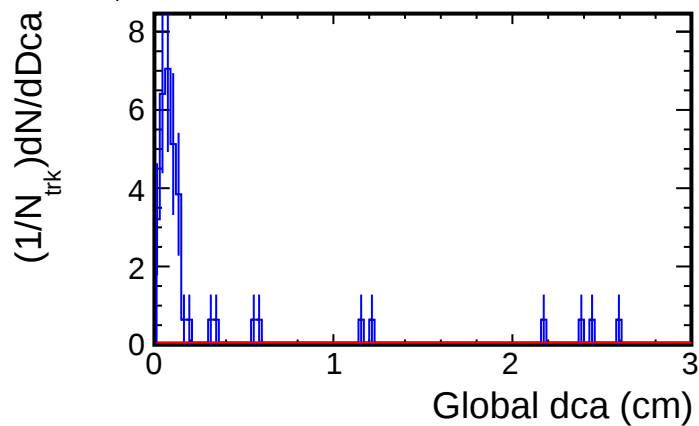
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

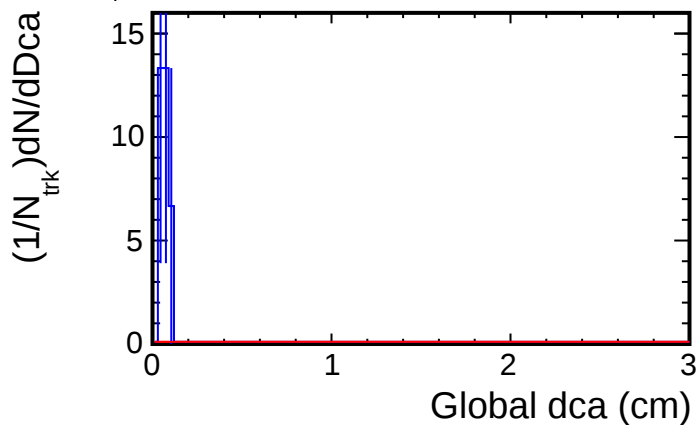
1.8, $3.0 < p_T < 3.5$ (GeV/c)



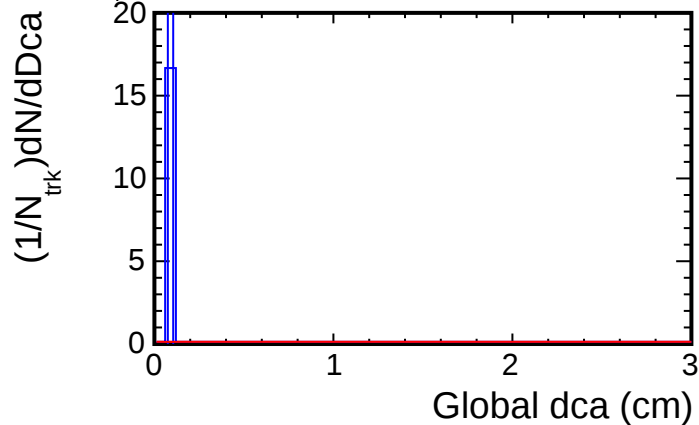
1.6, $3.0 < p_T < 3.5$ (GeV/c)



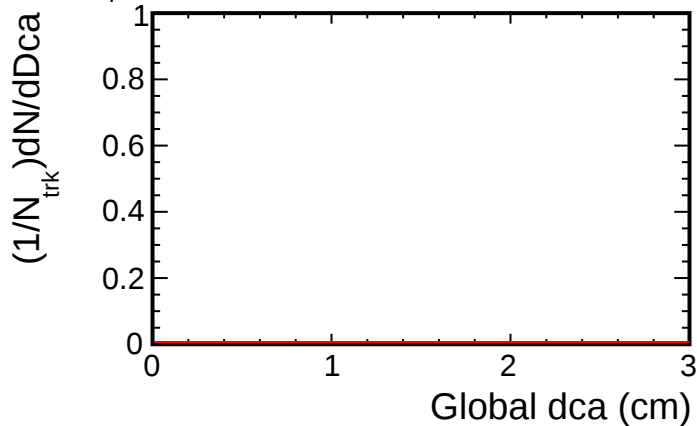
1.4, $3.0 < p_T < 3.5$ (GeV/c)



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



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

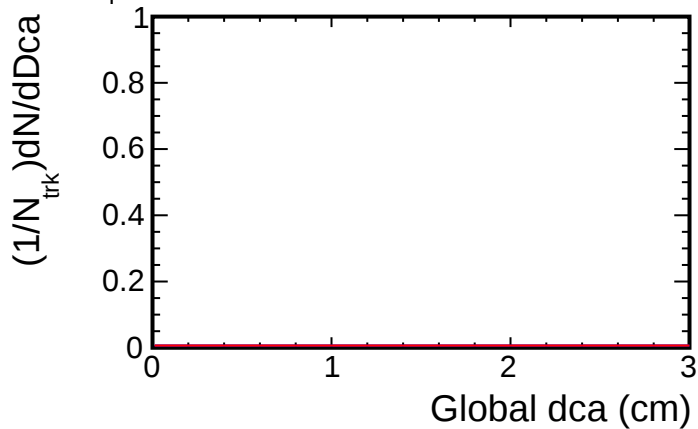


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

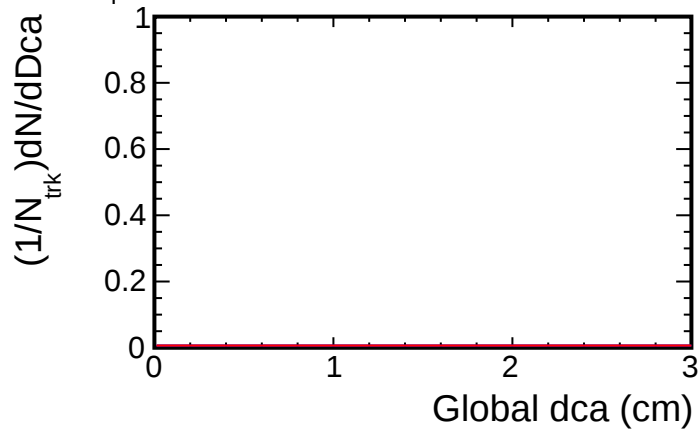
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

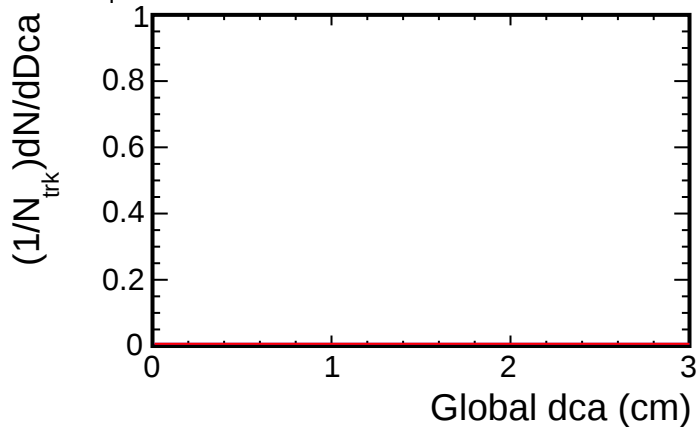
2, $3.0 < p_T < 3.5$ (GeV/c)



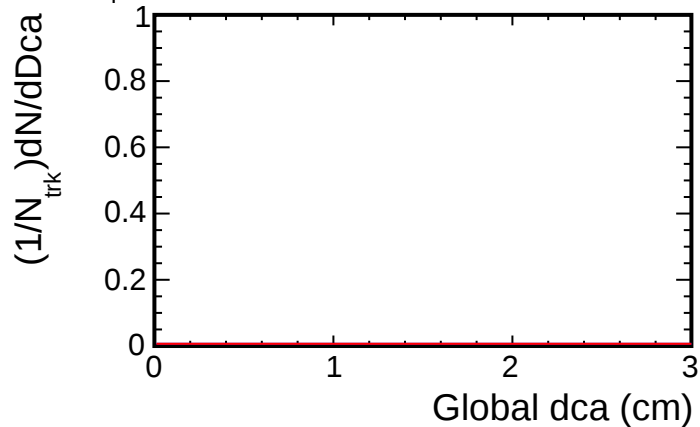
4, $3.0 < p_T < 3.5$ (GeV/c)



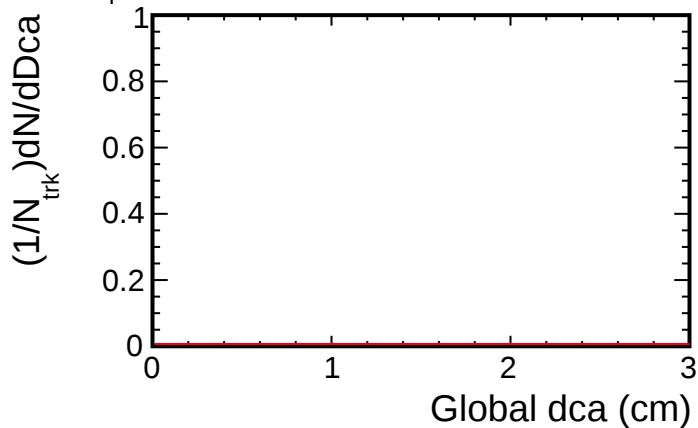
6, $3.0 < p_T < 3.5$ (GeV/c)



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



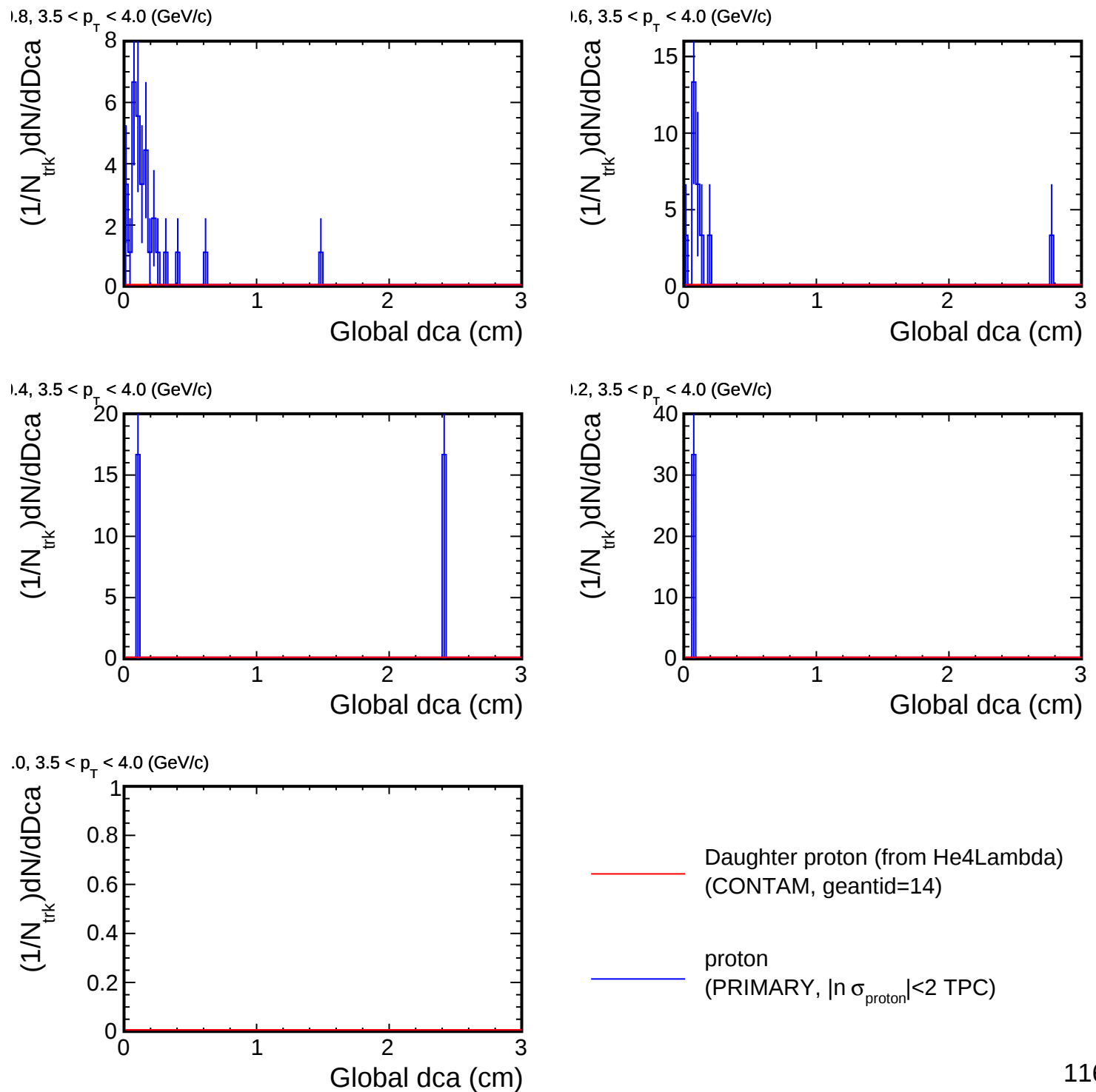
0, $3.0 < p_T < 3.5$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

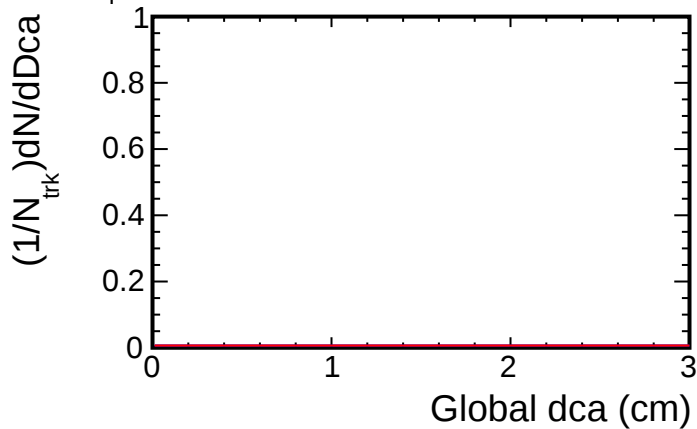
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

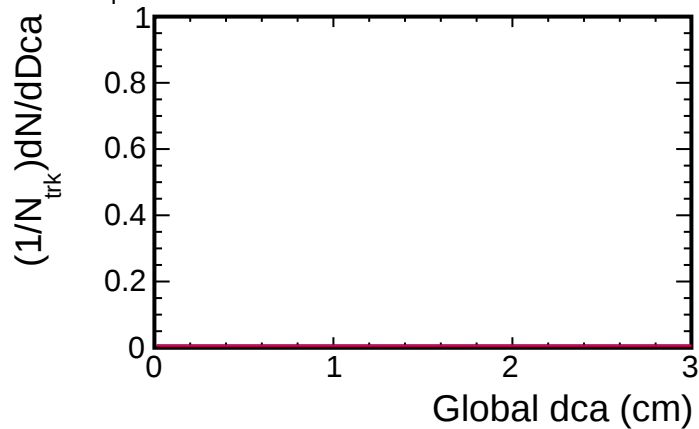


Dca distribution for (p_T , η) slices

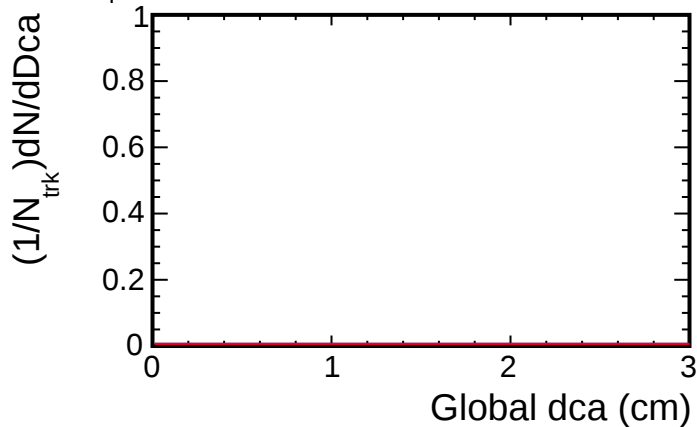
2, $3.5 < p_T < 4.0$ (GeV/c)



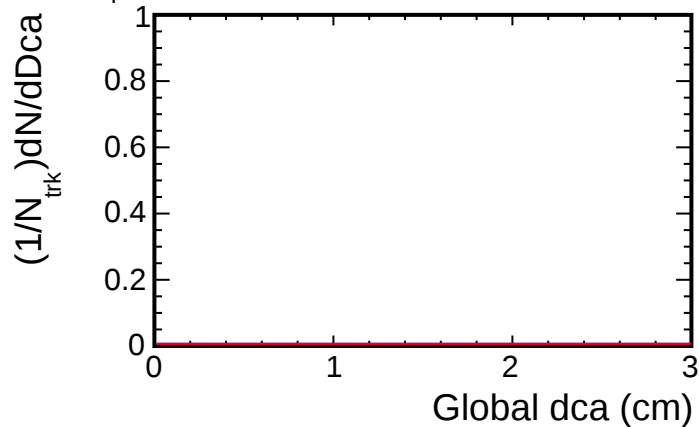
4, $3.5 < p_T < 4.0$ (GeV/c)



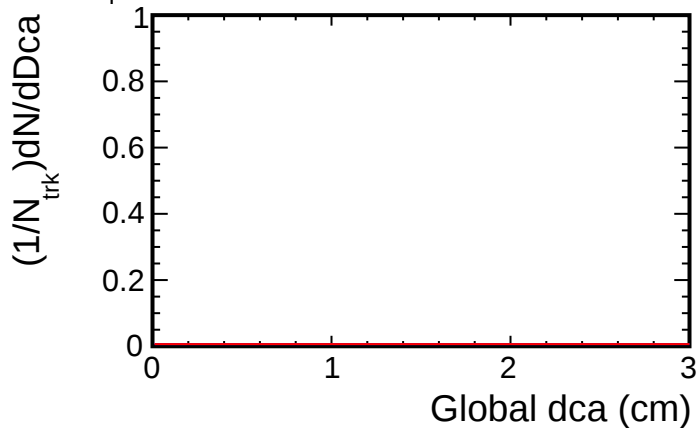
6, $3.5 < p_T < 4.0$ (GeV/c)



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



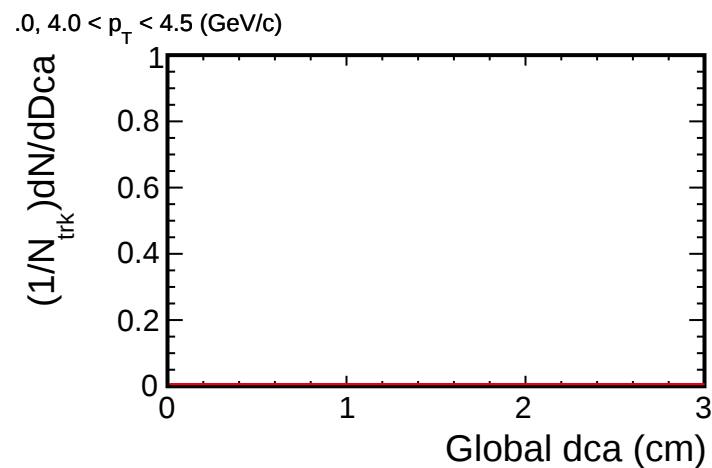
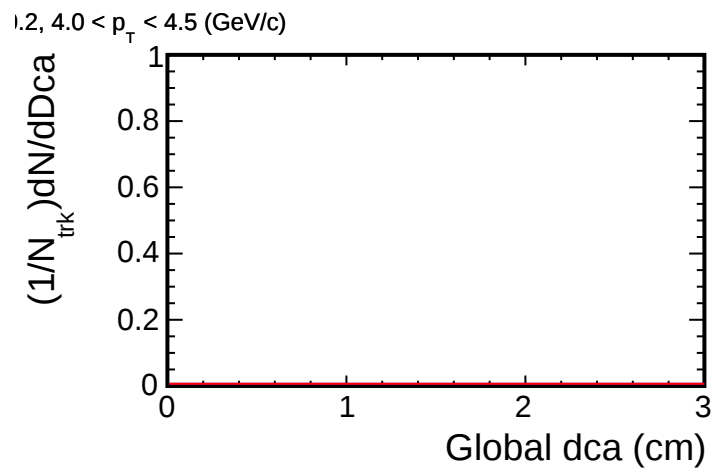
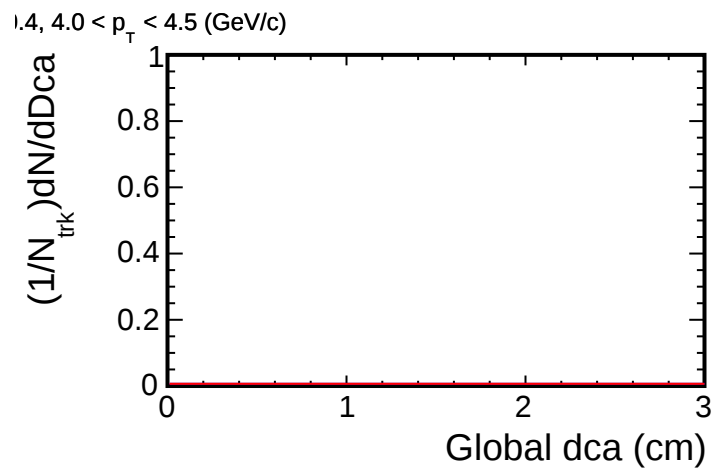
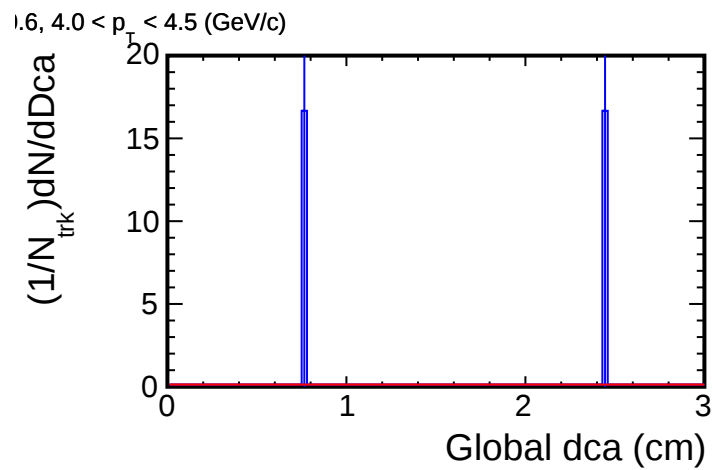
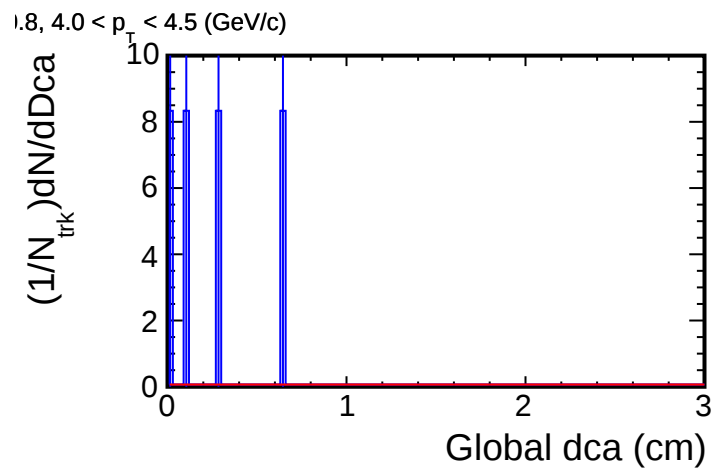
0, $3.5 < p_T < 4.0$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

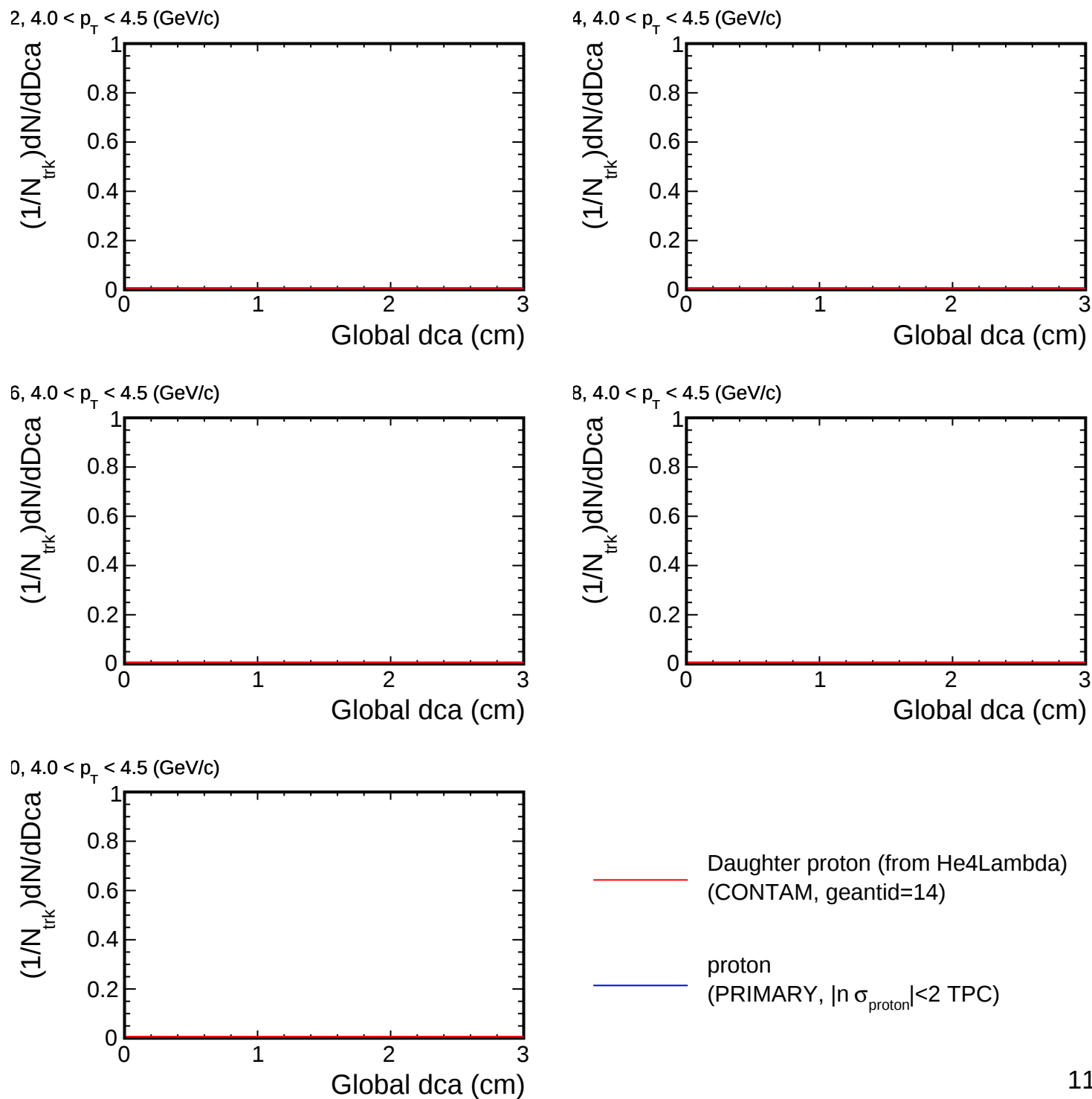
Dca distribution for (p_T , η) slices



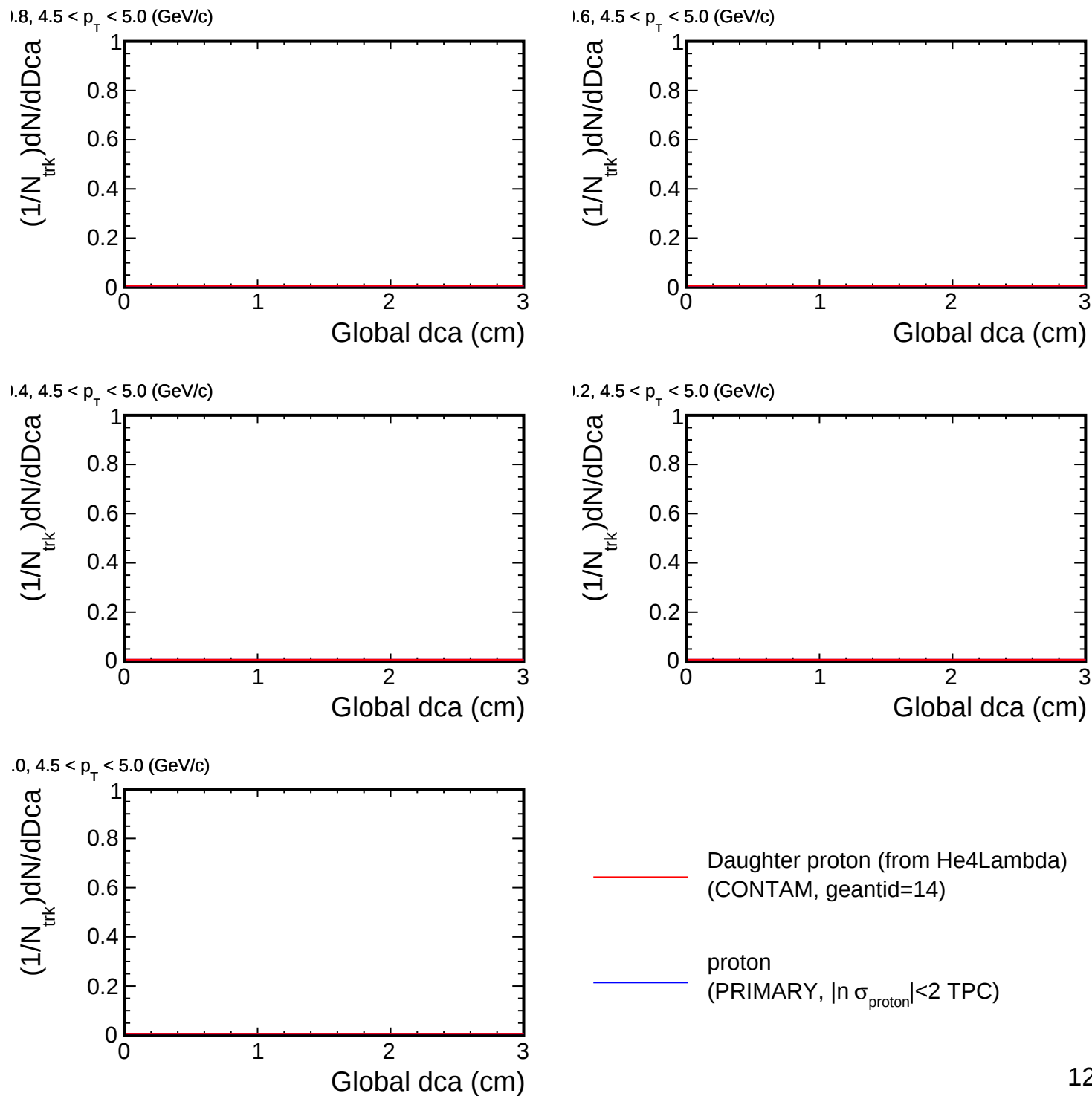
— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

Dca distribution for (p_T , η) slices

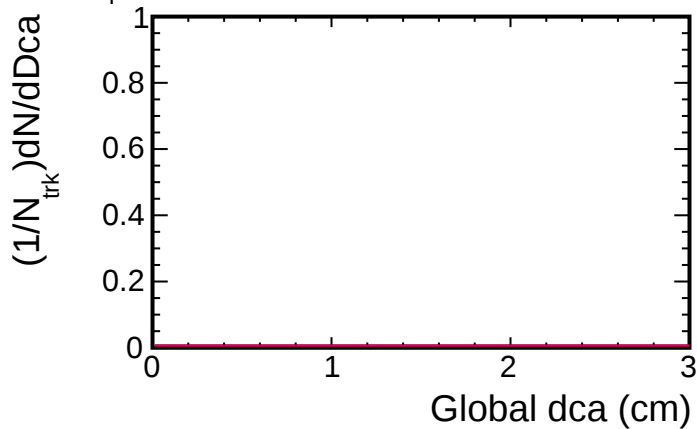


Dca distribution for (p_T , η) slices

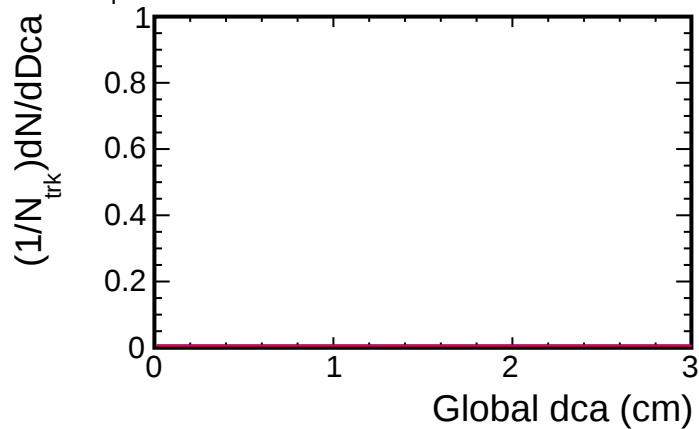


Dca distribution for (p_T , η) slices

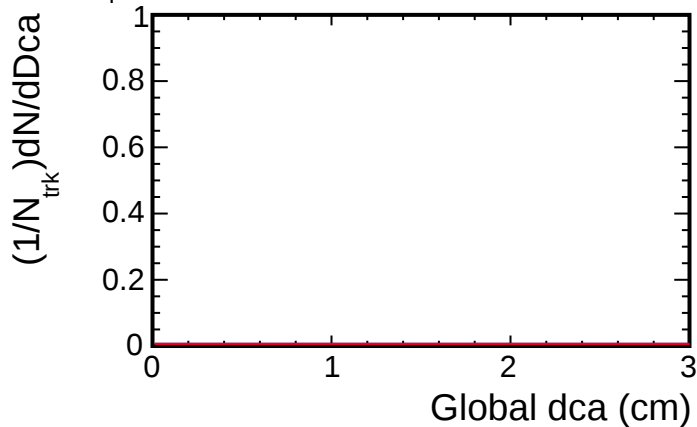
2, $4.5 < p_T < 5.0$ (GeV/c)



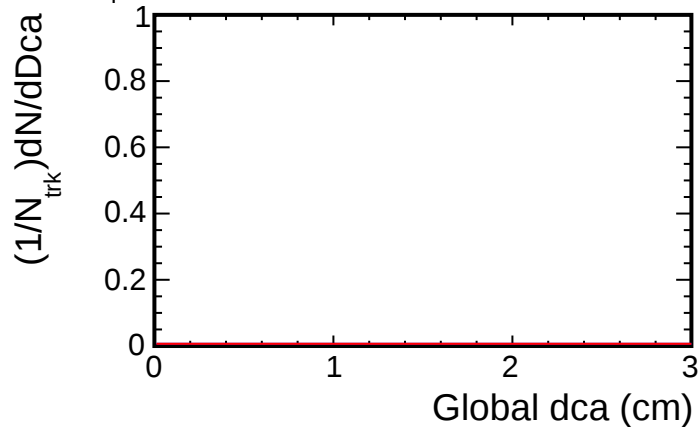
4, $4.5 < p_T < 5.0$ (GeV/c)



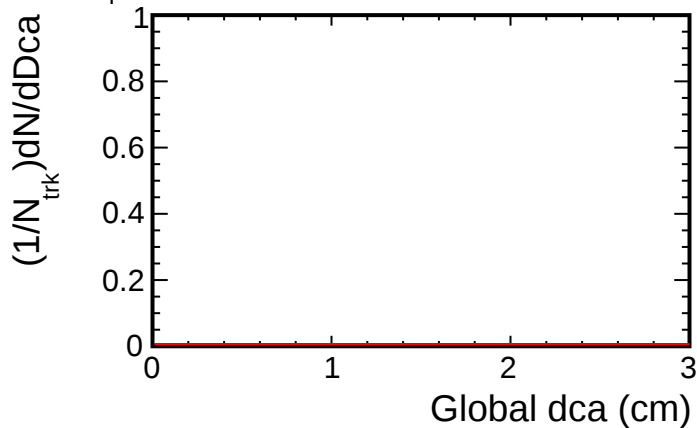
6, $4.5 < p_T < 5.0$ (GeV/c)



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



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

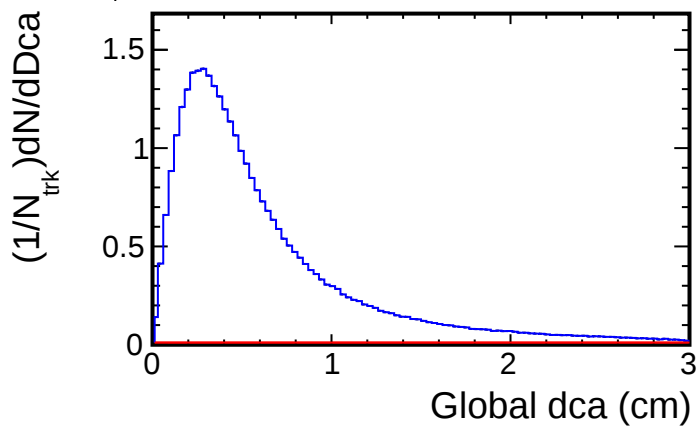


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

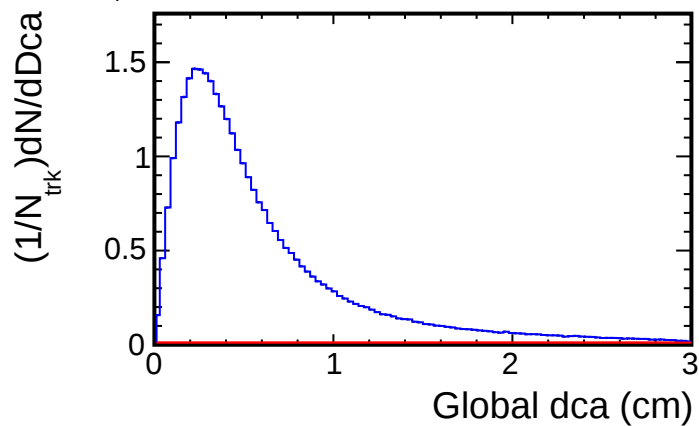
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

Dca distribution for (p_T , η) slices

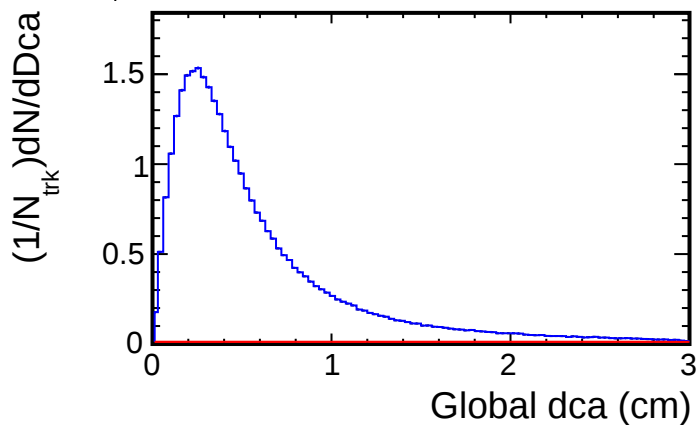
1.8, $0.1 < p_T < 0.5$ (GeV/c)



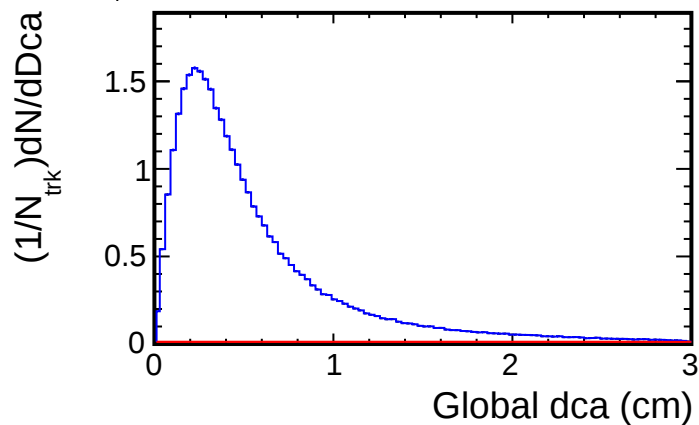
1.6, $0.1 < p_T < 0.5$ (GeV/c)



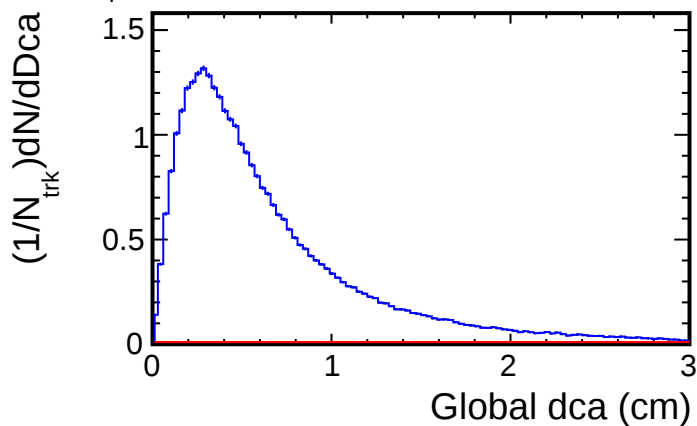
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



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

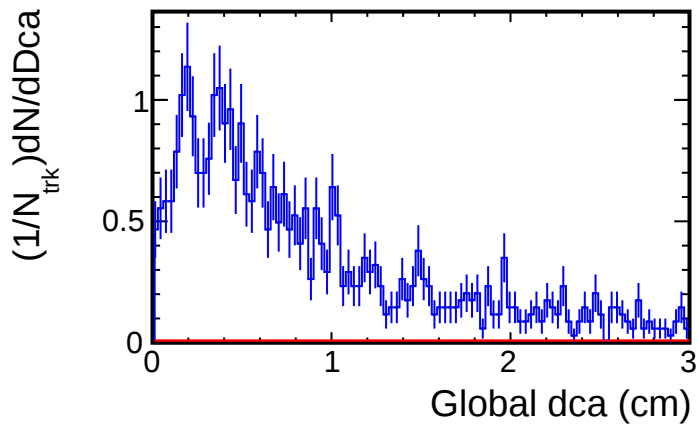


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

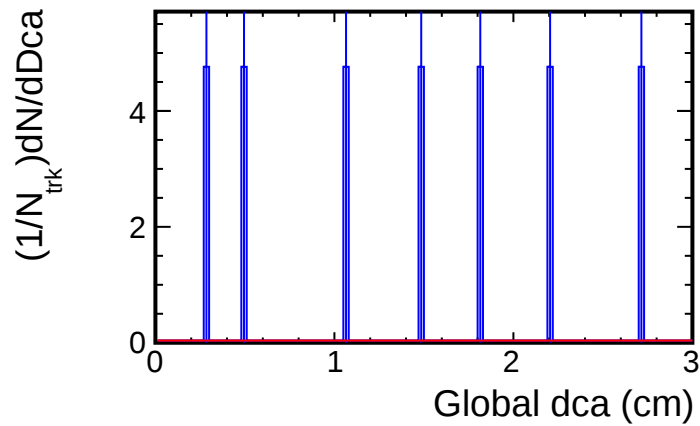
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

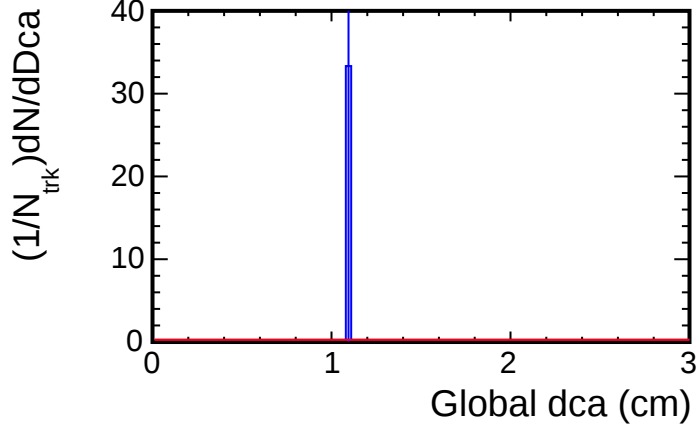
2, $0.1 < p_T < 0.5$ (GeV/c)



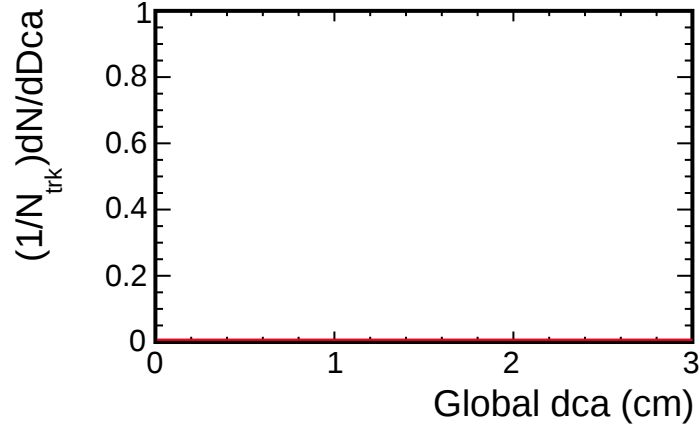
4, $0.1 < p_T < 0.5$ (GeV/c)



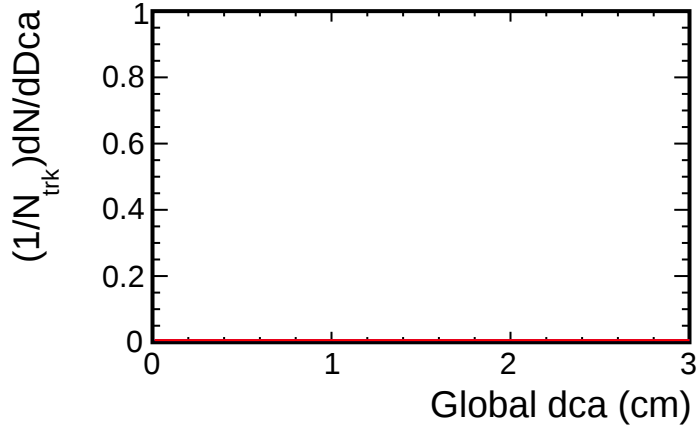
6, $0.1 < p_T < 0.5$ (GeV/c)



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



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

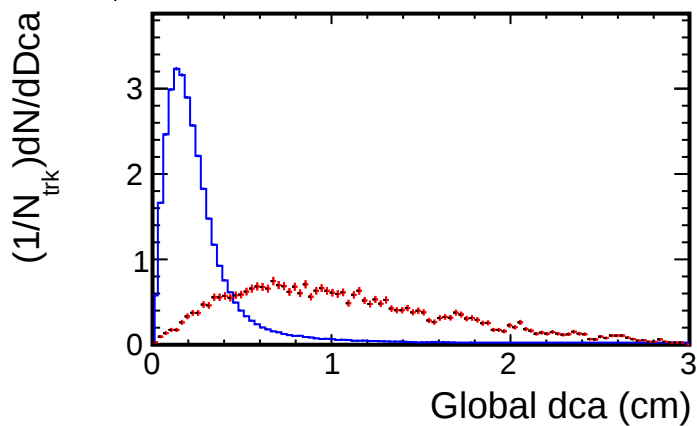


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

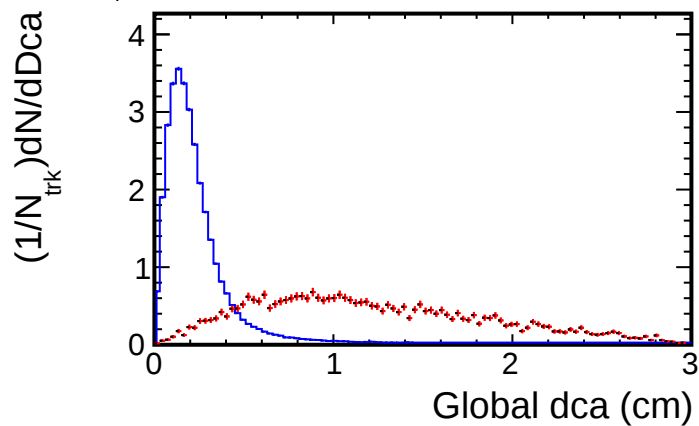
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

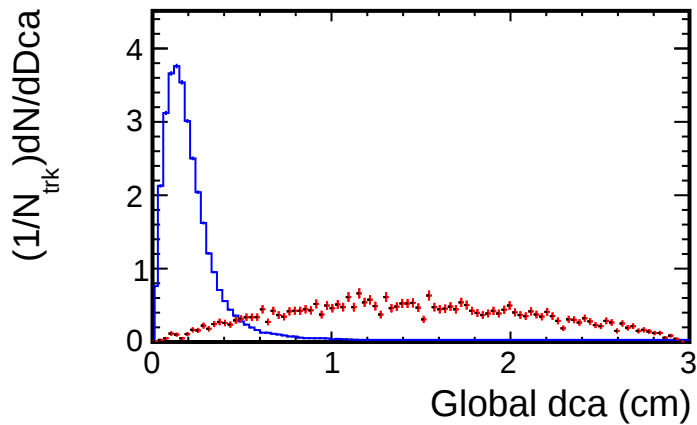
1.8, $0.5 < p_T < 1.0$ (GeV/c)



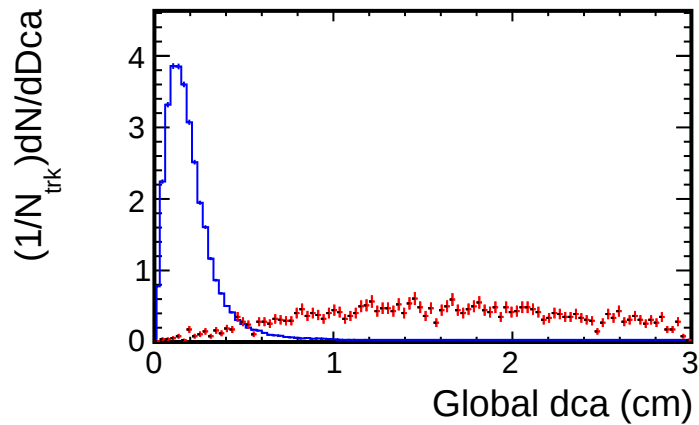
1.6, $0.5 < p_T < 1.0$ (GeV/c)



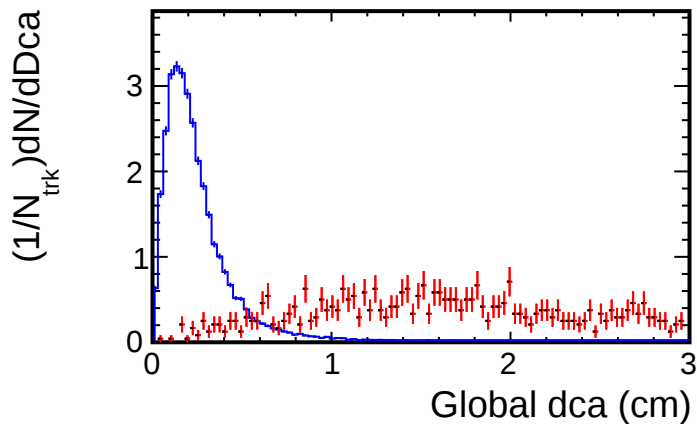
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



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

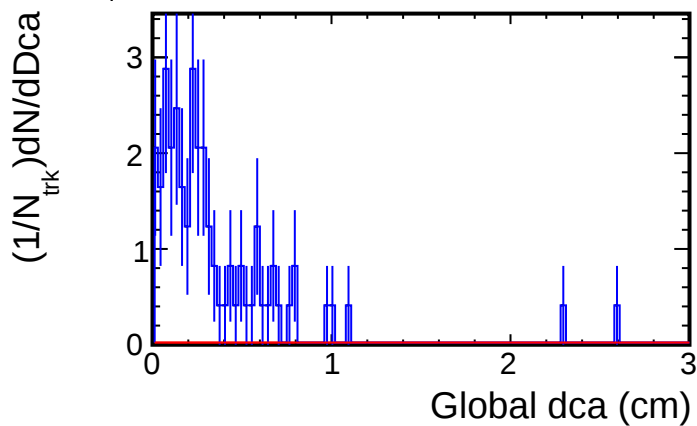


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

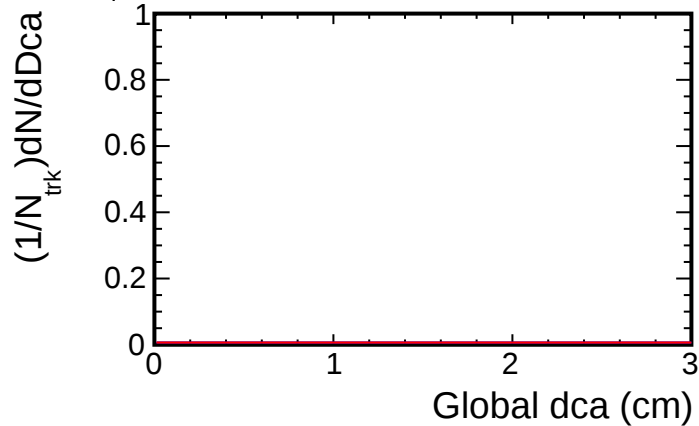
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

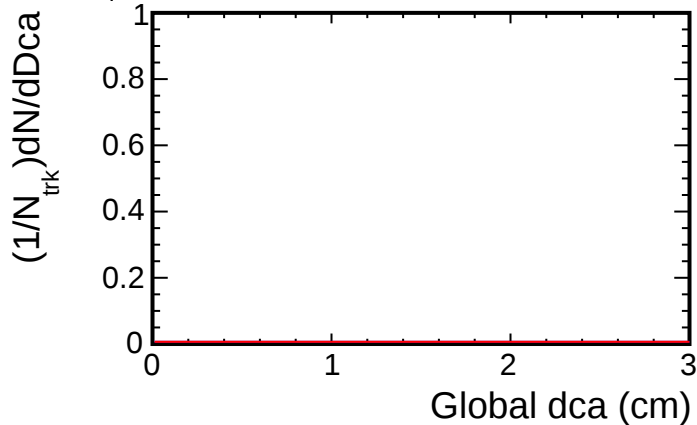
2, $0.5 < p_T < 1.0$ (GeV/c)



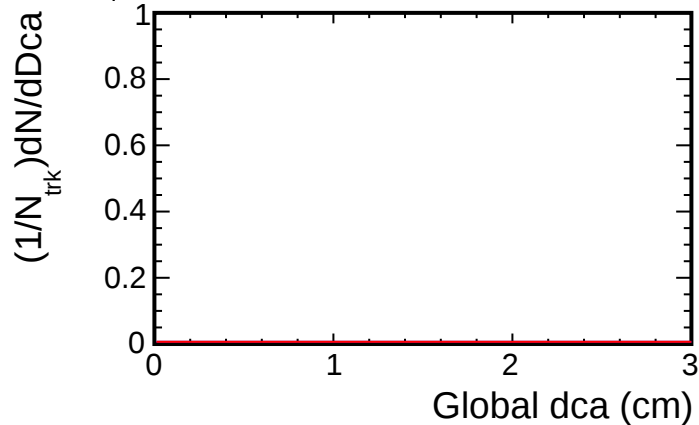
4, $0.5 < p_T < 1.0$ (GeV/c)



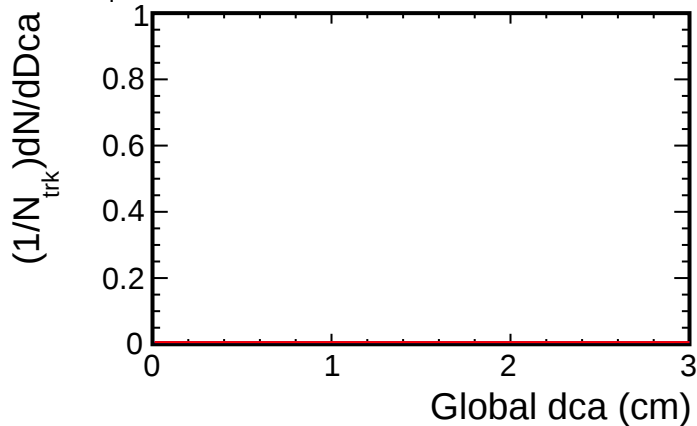
6, $0.5 < p_T < 1.0$ (GeV/c)



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



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

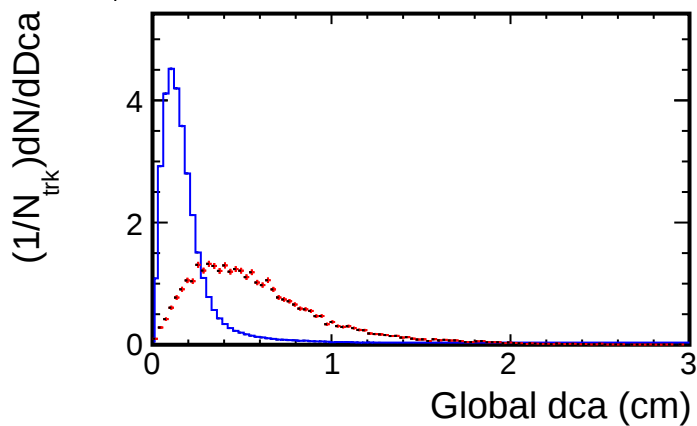


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

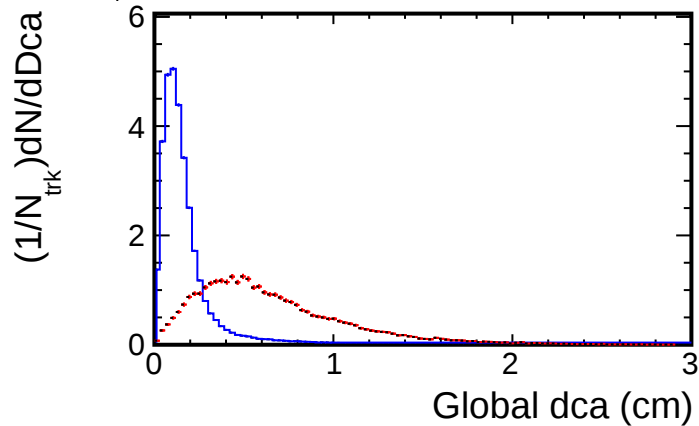
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

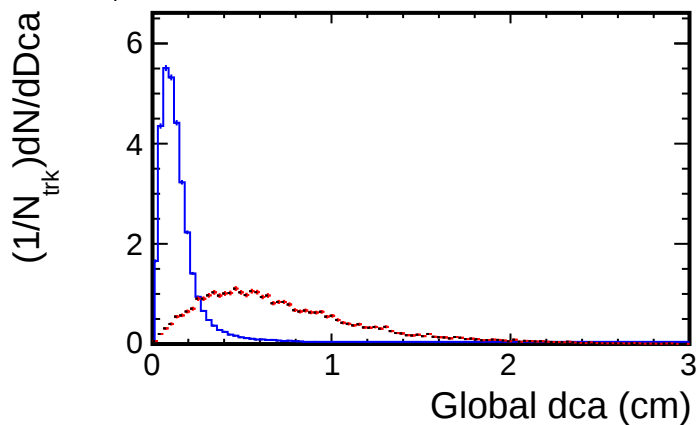
1.8, $1.0 < p_T < 1.5$ (GeV/c)



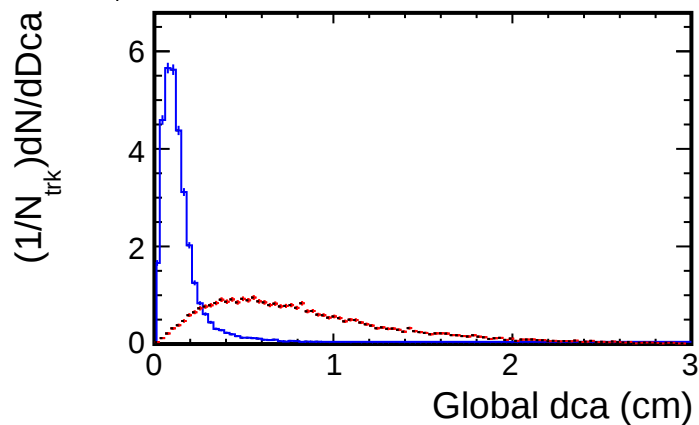
1.6, $1.0 < p_T < 1.5$ (GeV/c)



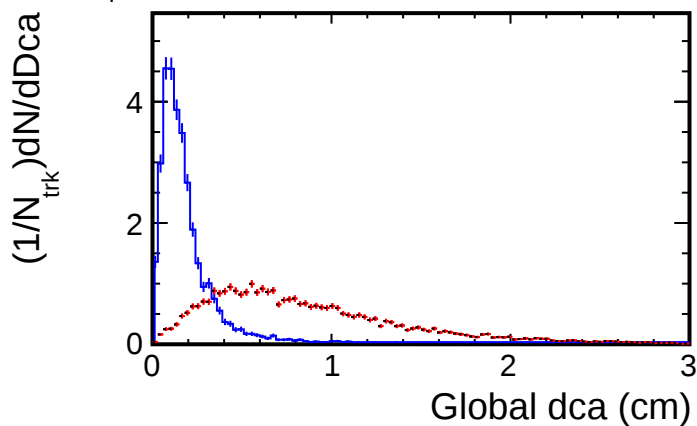
1.4, $1.0 < p_T < 1.5$ (GeV/c)



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



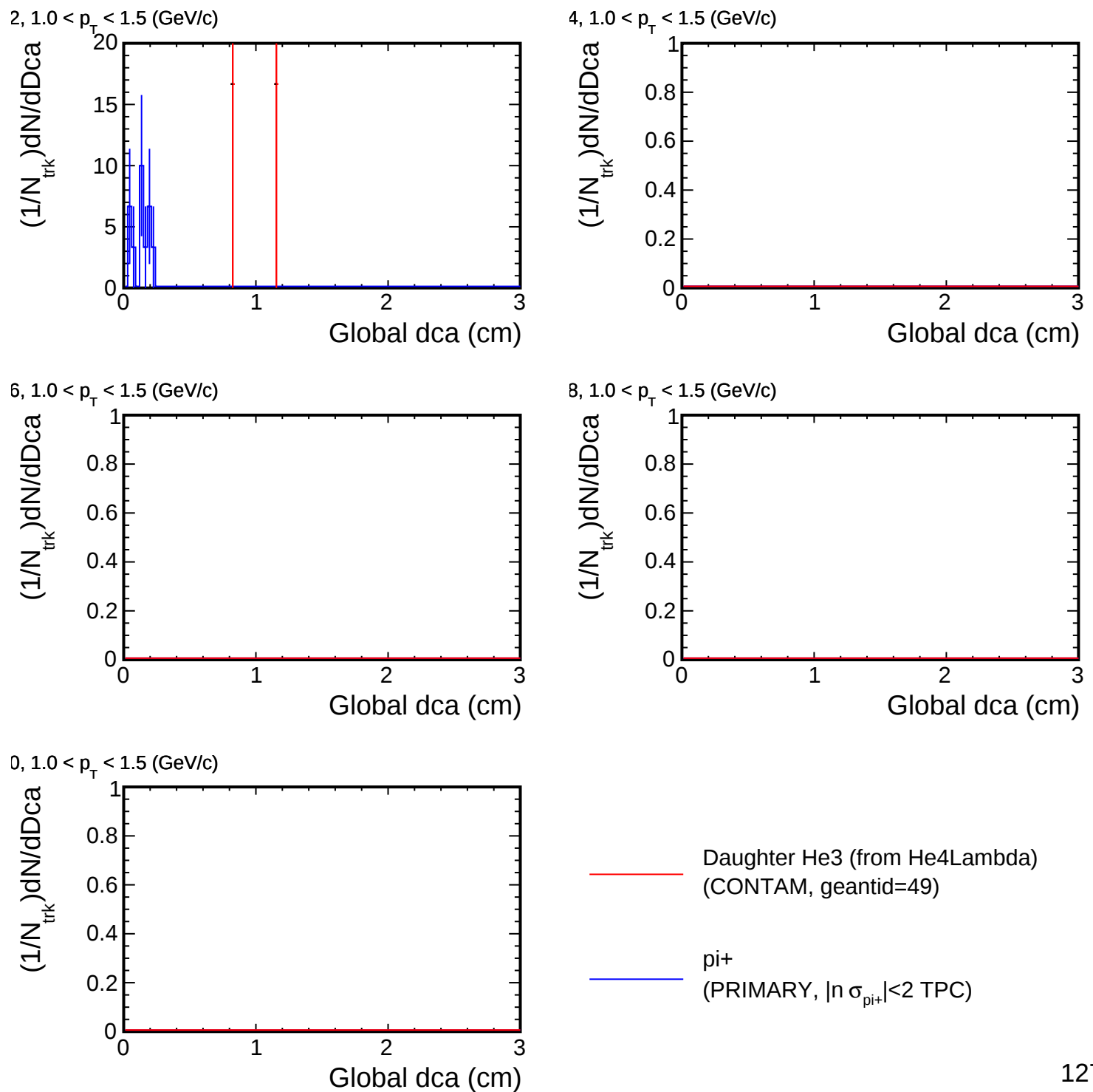
1.0, $1.0 < p_T < 1.5$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

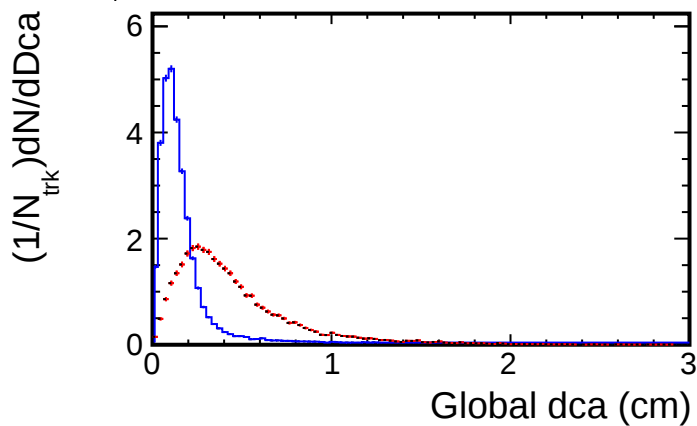
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

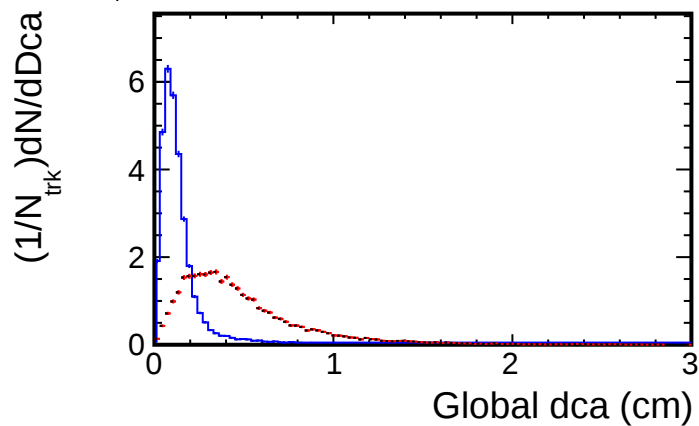


Dca distribution for (p_T , η) slices

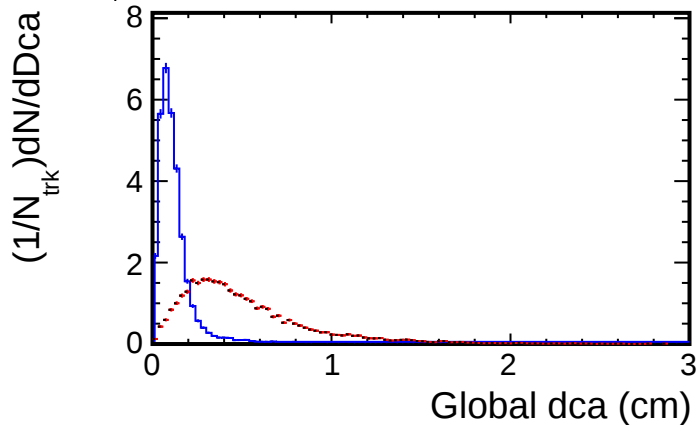
1.8, $1.5 < p_T < 2.0$ (GeV/c)



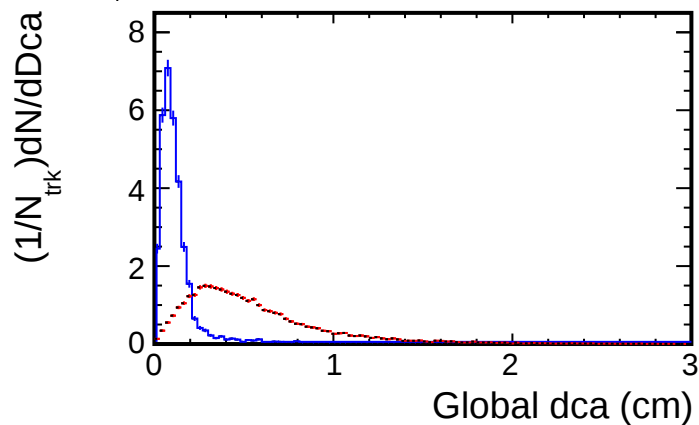
1.6, $1.5 < p_T < 2.0$ (GeV/c)



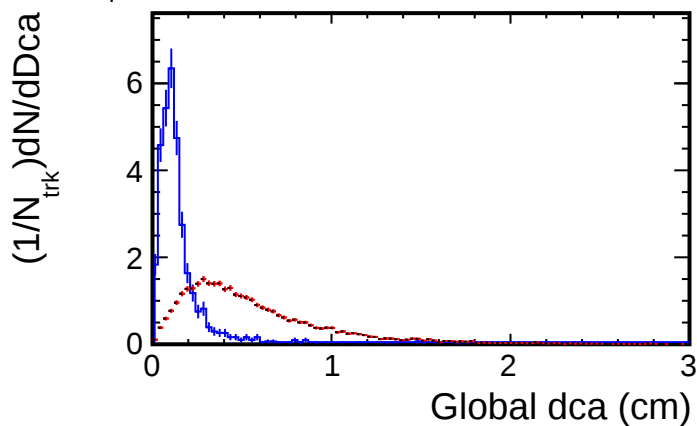
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



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

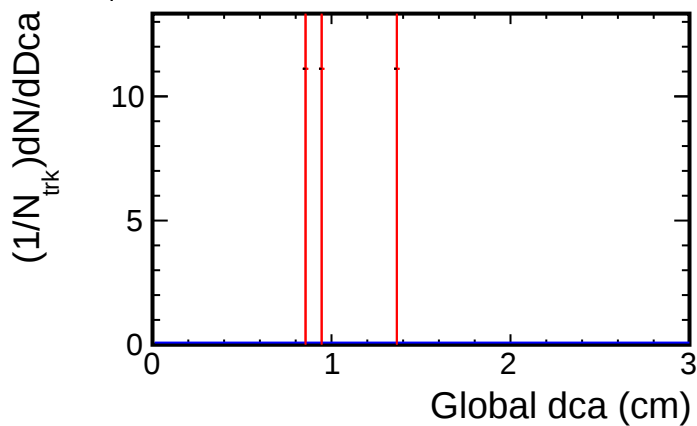


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

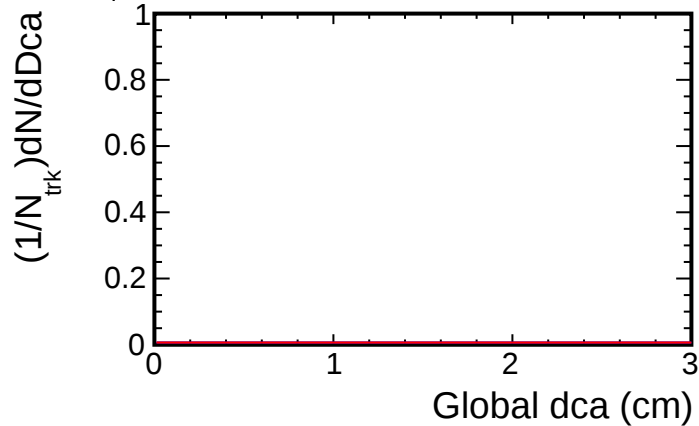
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

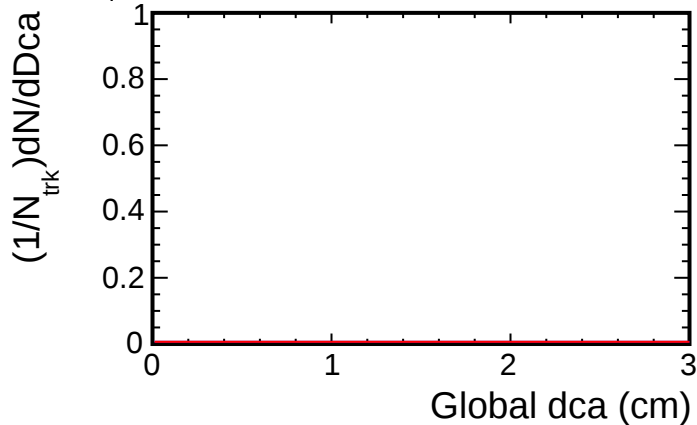
2, $1.5 < p_T < 2.0$ (GeV/c)



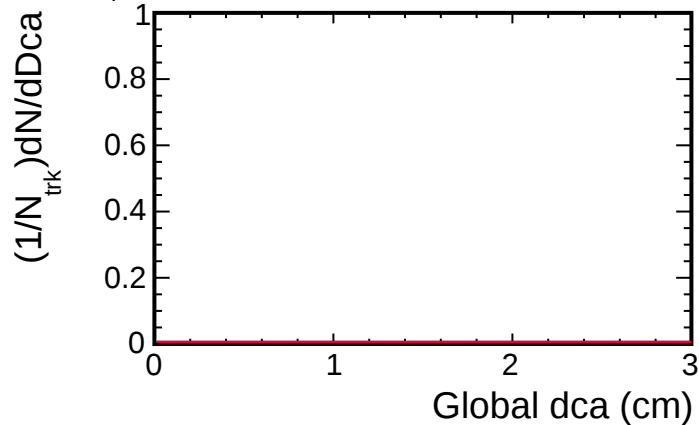
4, $1.5 < p_T < 2.0$ (GeV/c)



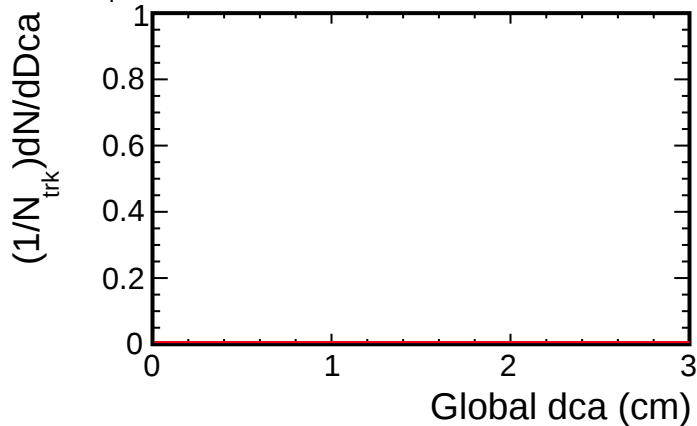
6, $1.5 < p_T < 2.0$ (GeV/c)



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



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

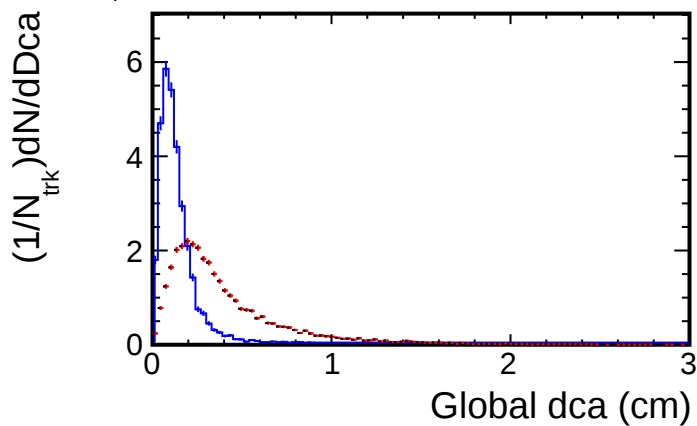


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

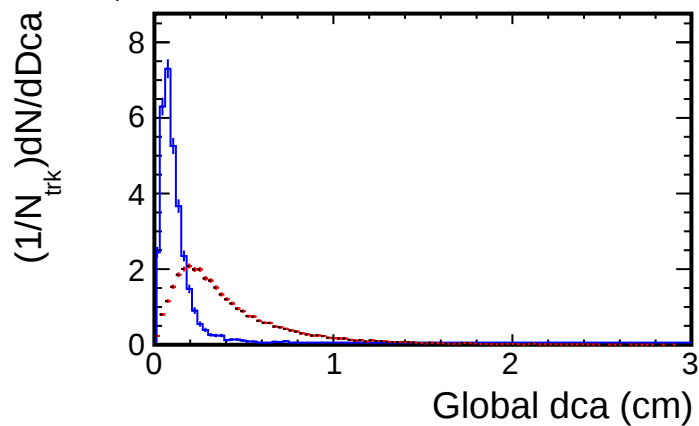
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

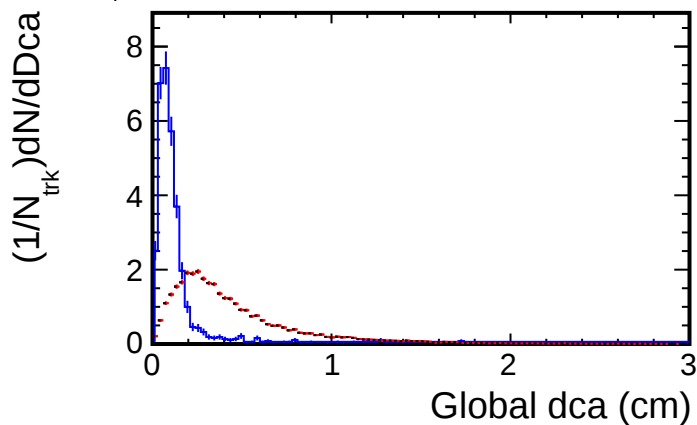
1.8, $2.0 < p_T < 2.5$ (GeV/c)



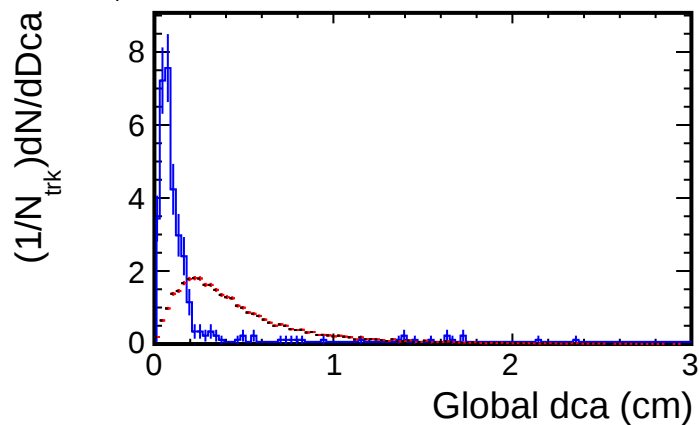
1.6, $2.0 < p_T < 2.5$ (GeV/c)



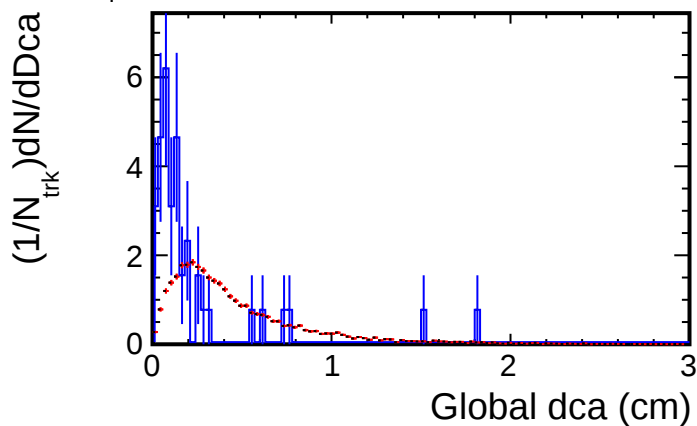
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



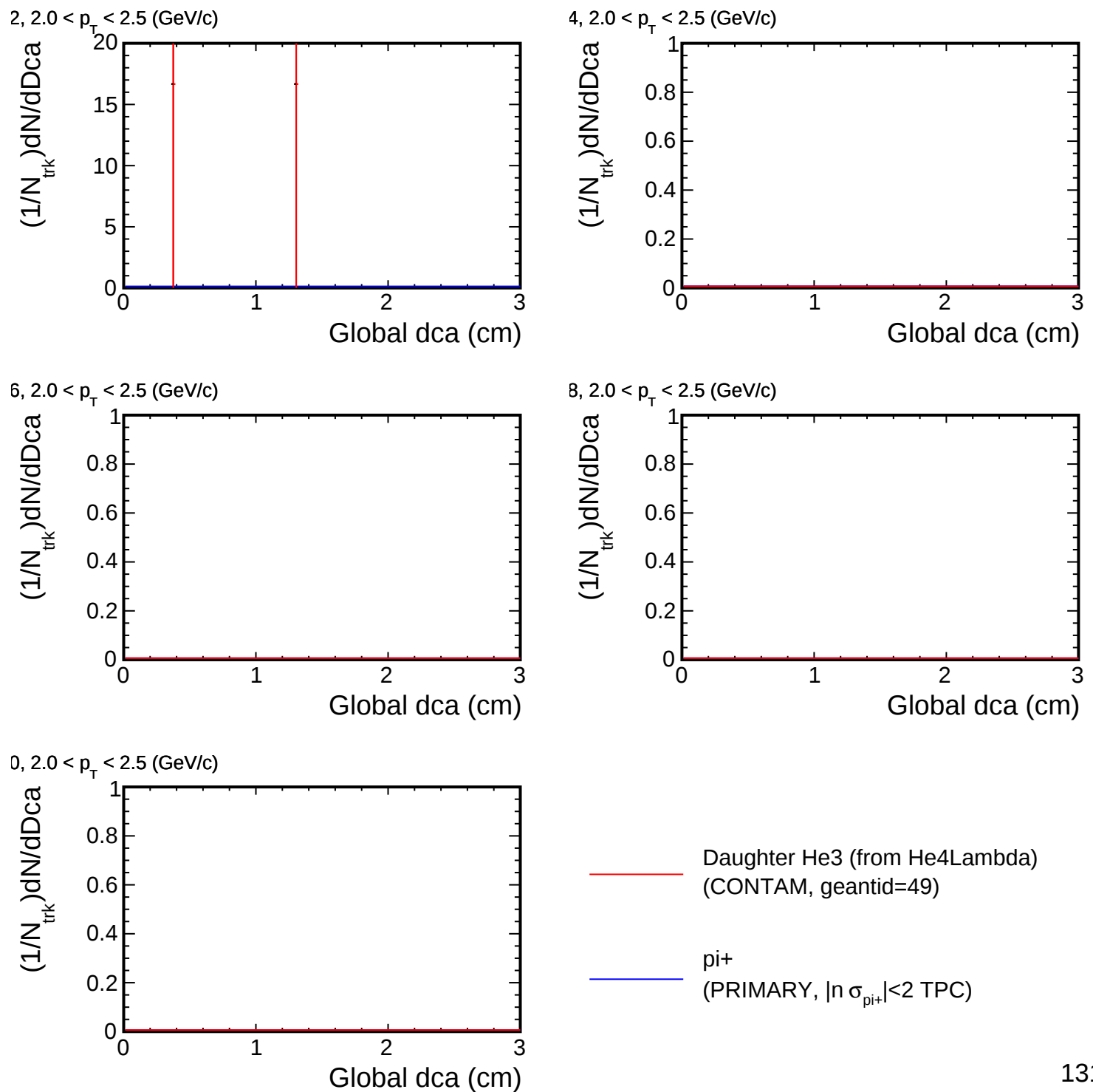
1.0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

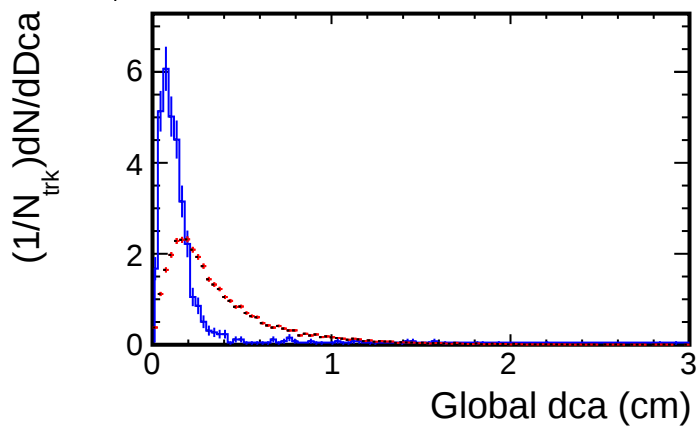
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

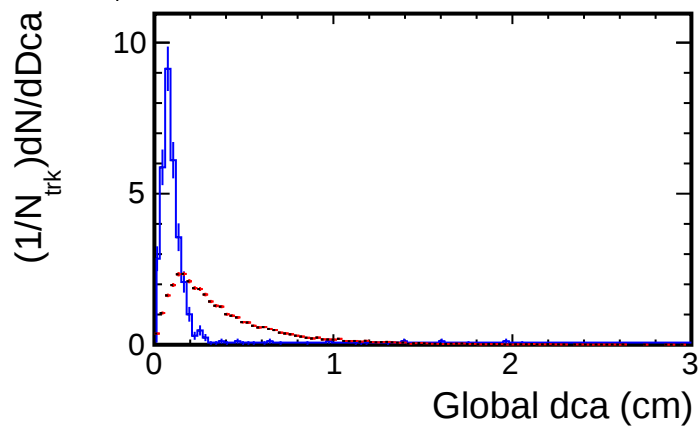


Dca distribution for (p_T , η) slices

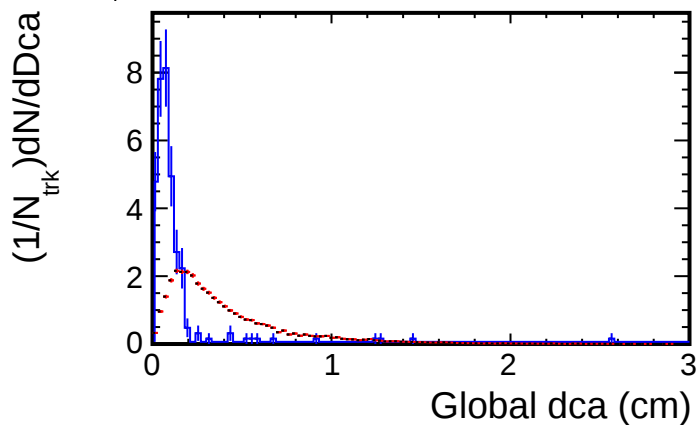
1.8, $2.5 < p_T < 3.0$ (GeV/c)



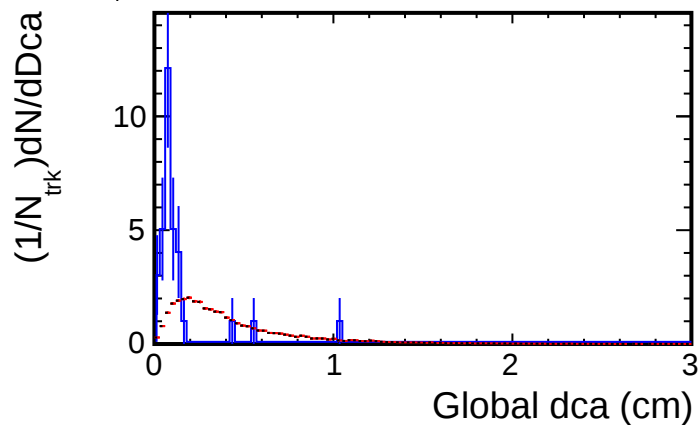
1.6, $2.5 < p_T < 3.0$ (GeV/c)



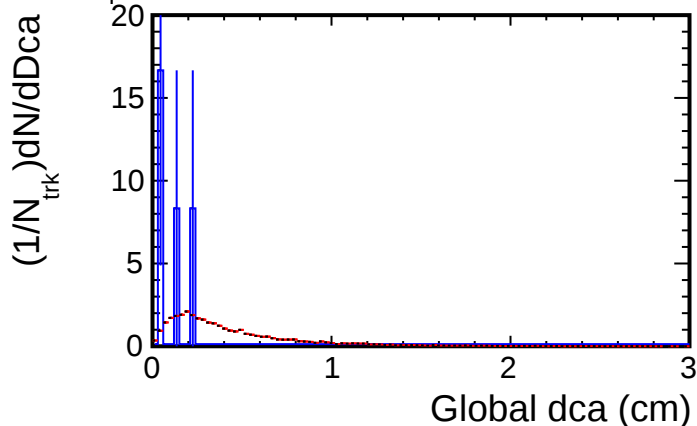
1.4, $2.5 < p_T < 3.0$ (GeV/c)



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



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

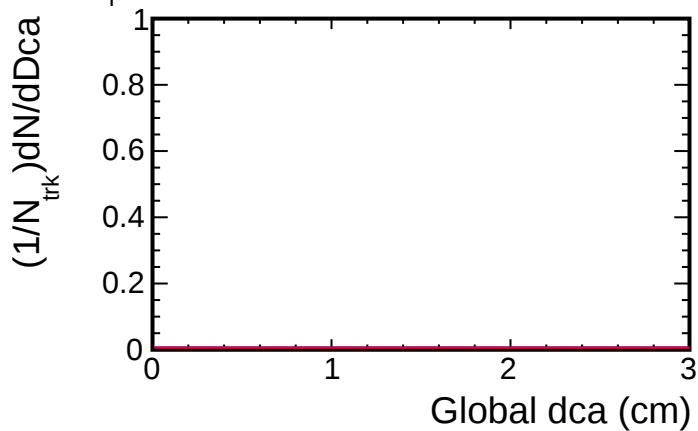


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

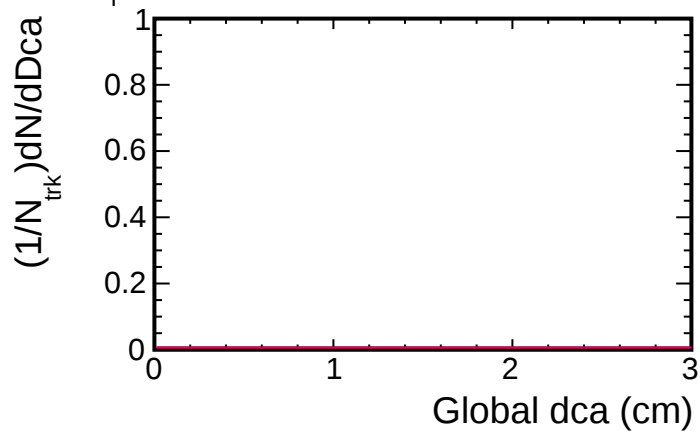
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

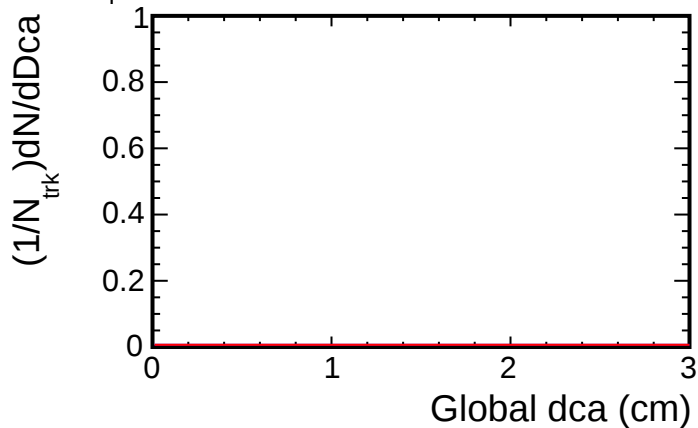
2, $2.5 < p_T < 3.0$ (GeV/c)



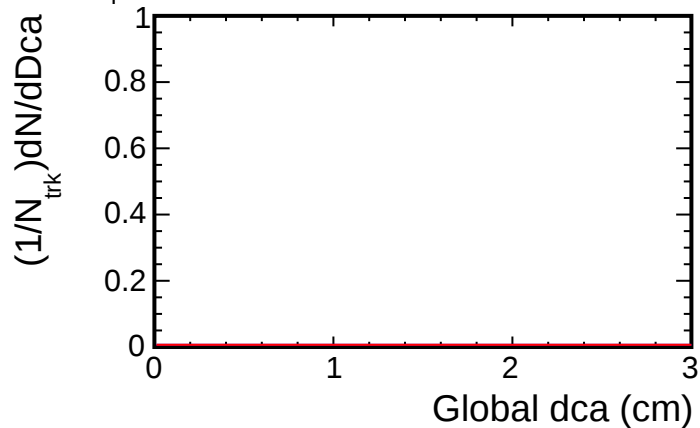
4, $2.5 < p_T < 3.0$ (GeV/c)



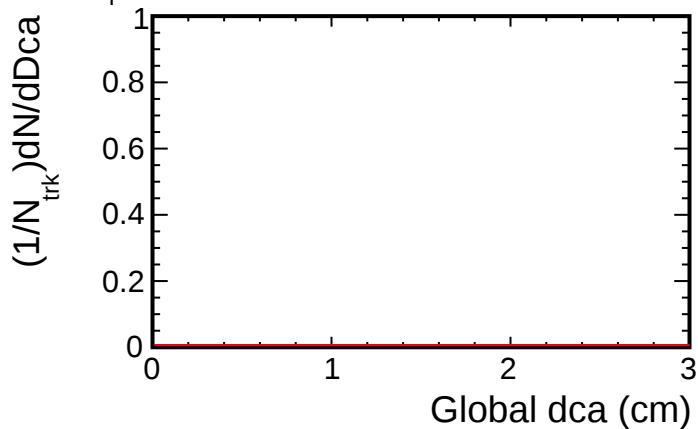
6, $2.5 < p_T < 3.0$ (GeV/c)



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



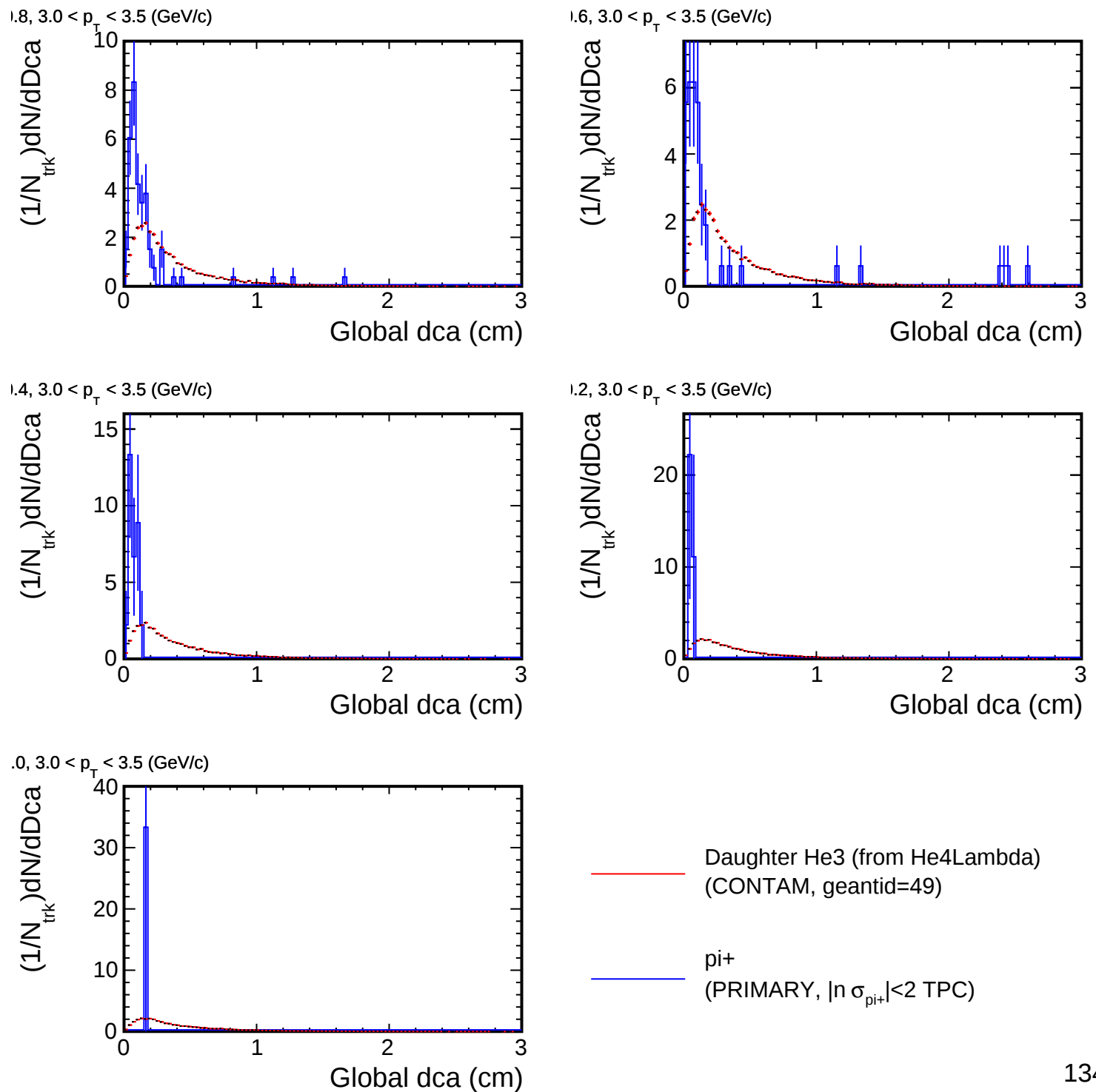
0, $2.5 < p_T < 3.0$ (GeV/c)



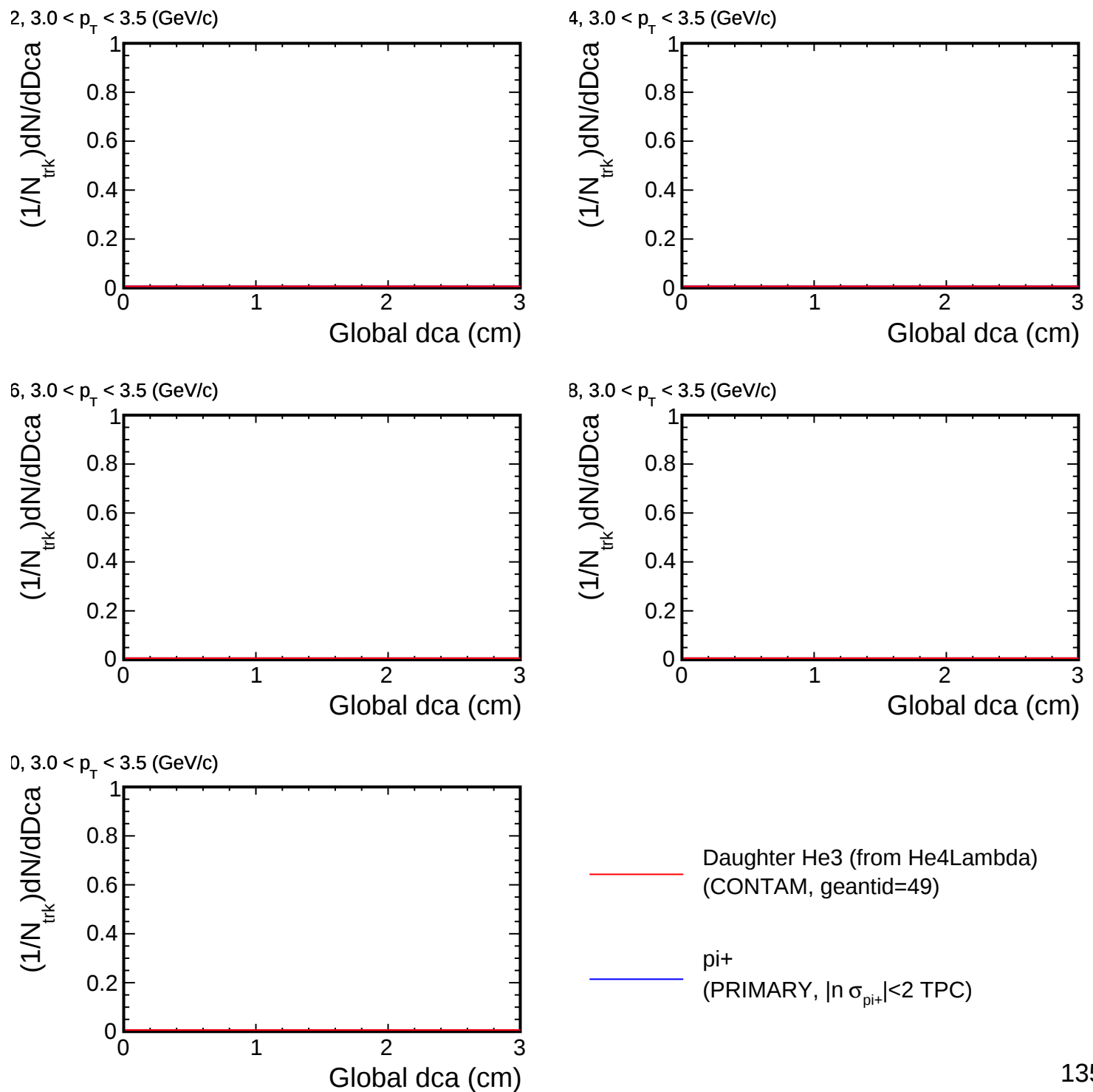
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

Dca distribution for (p_T , η) slices

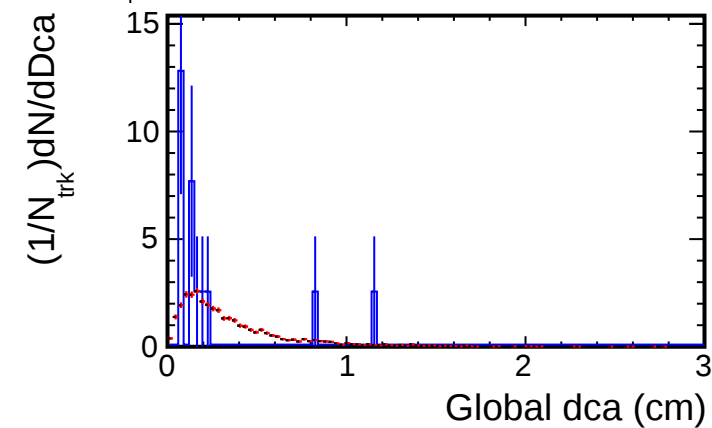


Dca distribution for (p_T , η) slices

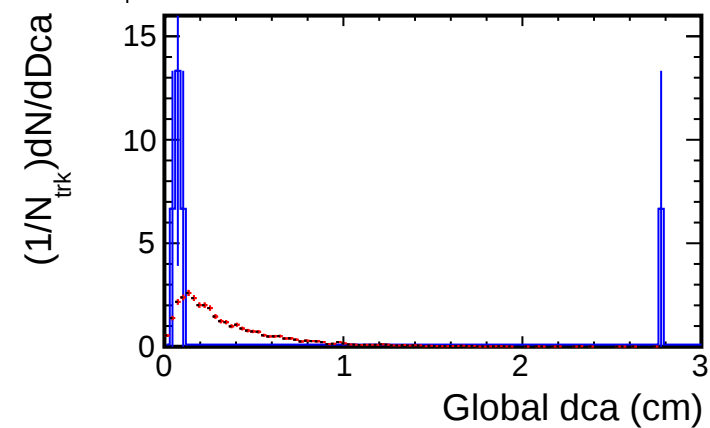


Dca distribution for (p_T , η) slices

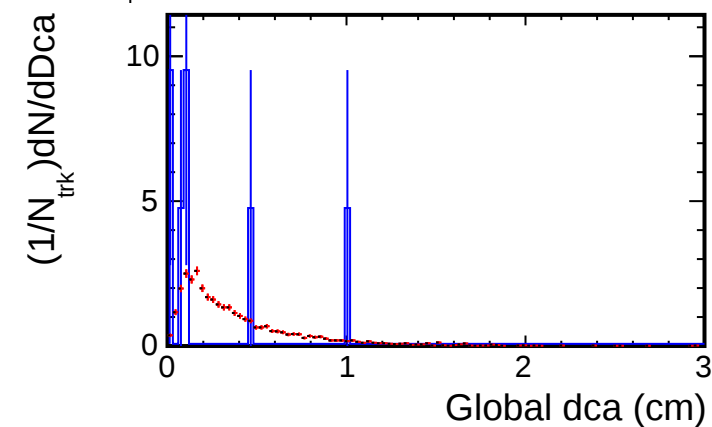
1.8, $3.5 < p_T < 4.0$ (GeV/c)



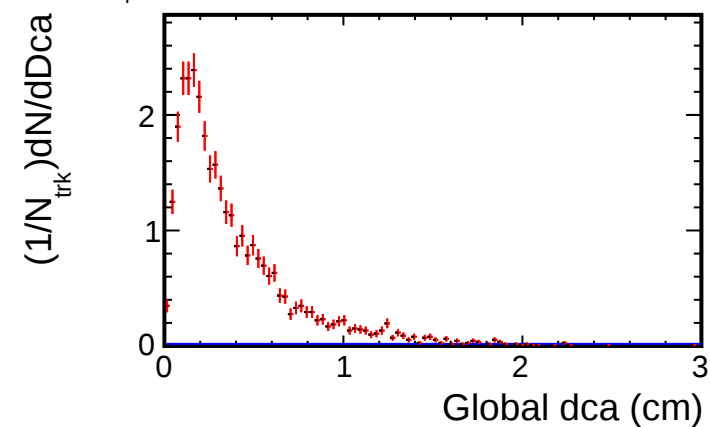
1.6, $3.5 < p_T < 4.0$ (GeV/c)



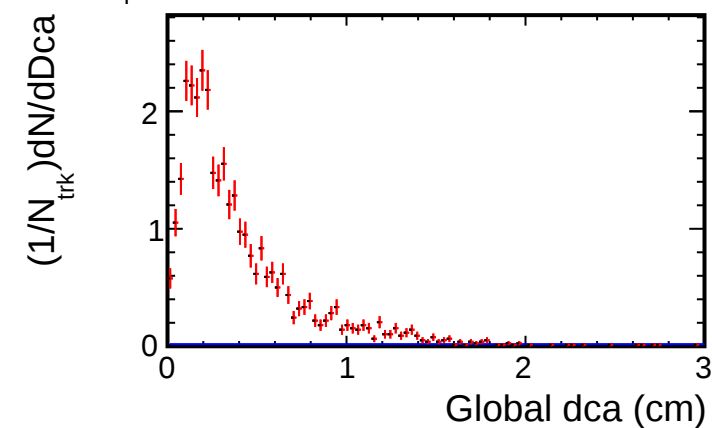
1.4, $3.5 < p_T < 4.0$ (GeV/c)



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



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

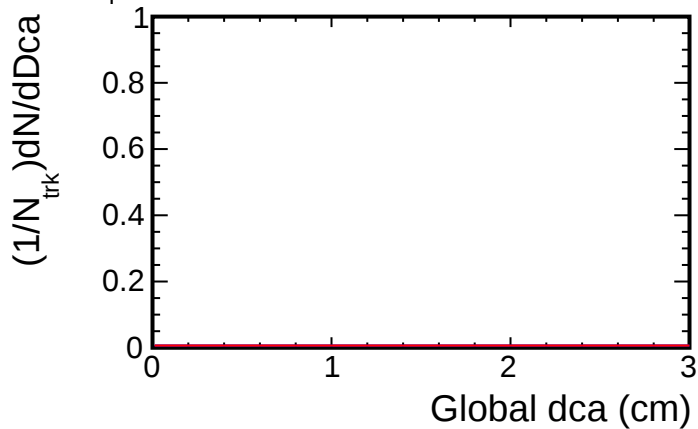


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

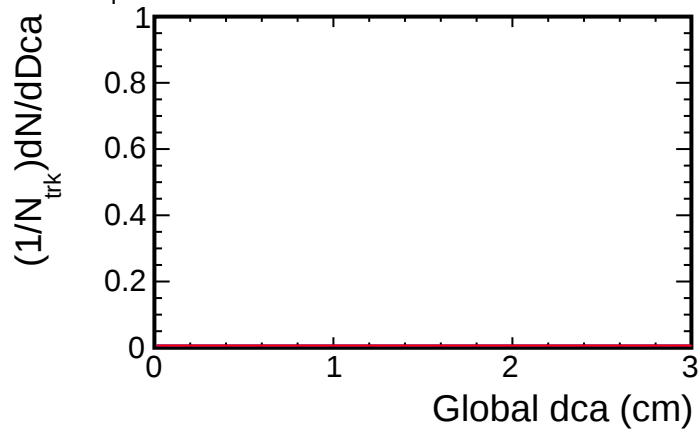
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

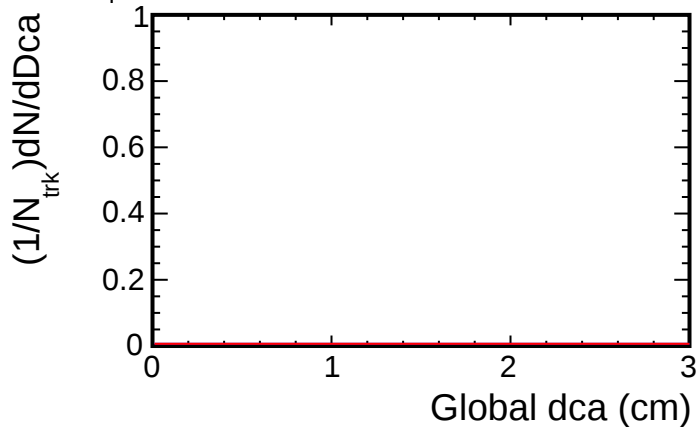
2, $3.5 < p_T < 4.0$ (GeV/c)



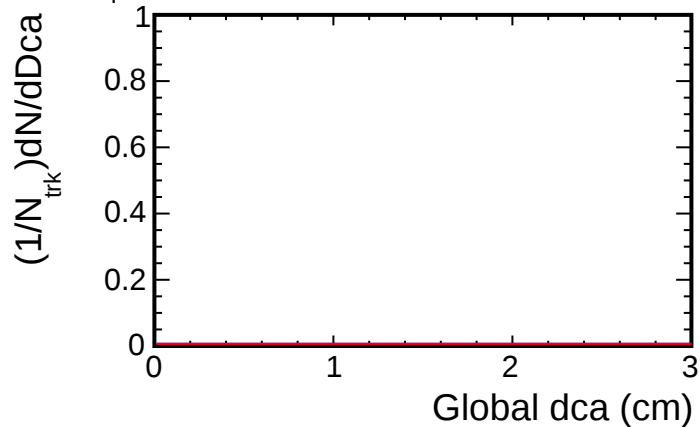
4, $3.5 < p_T < 4.0$ (GeV/c)



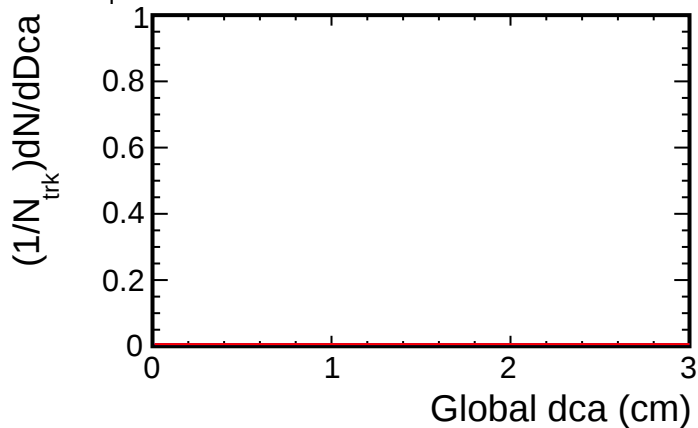
6, $3.5 < p_T < 4.0$ (GeV/c)



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



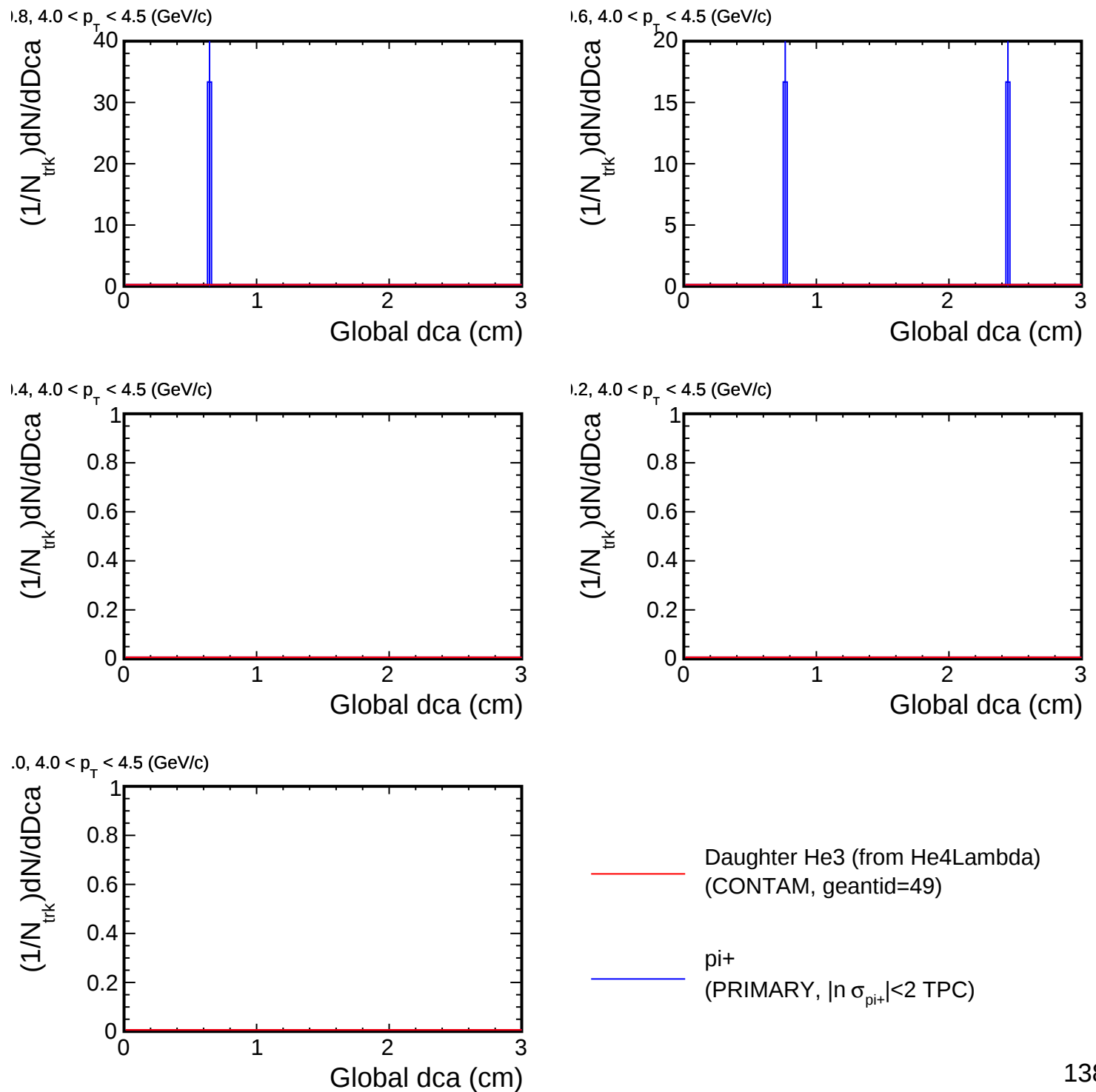
0, $3.5 < p_T < 4.0$ (GeV/c)



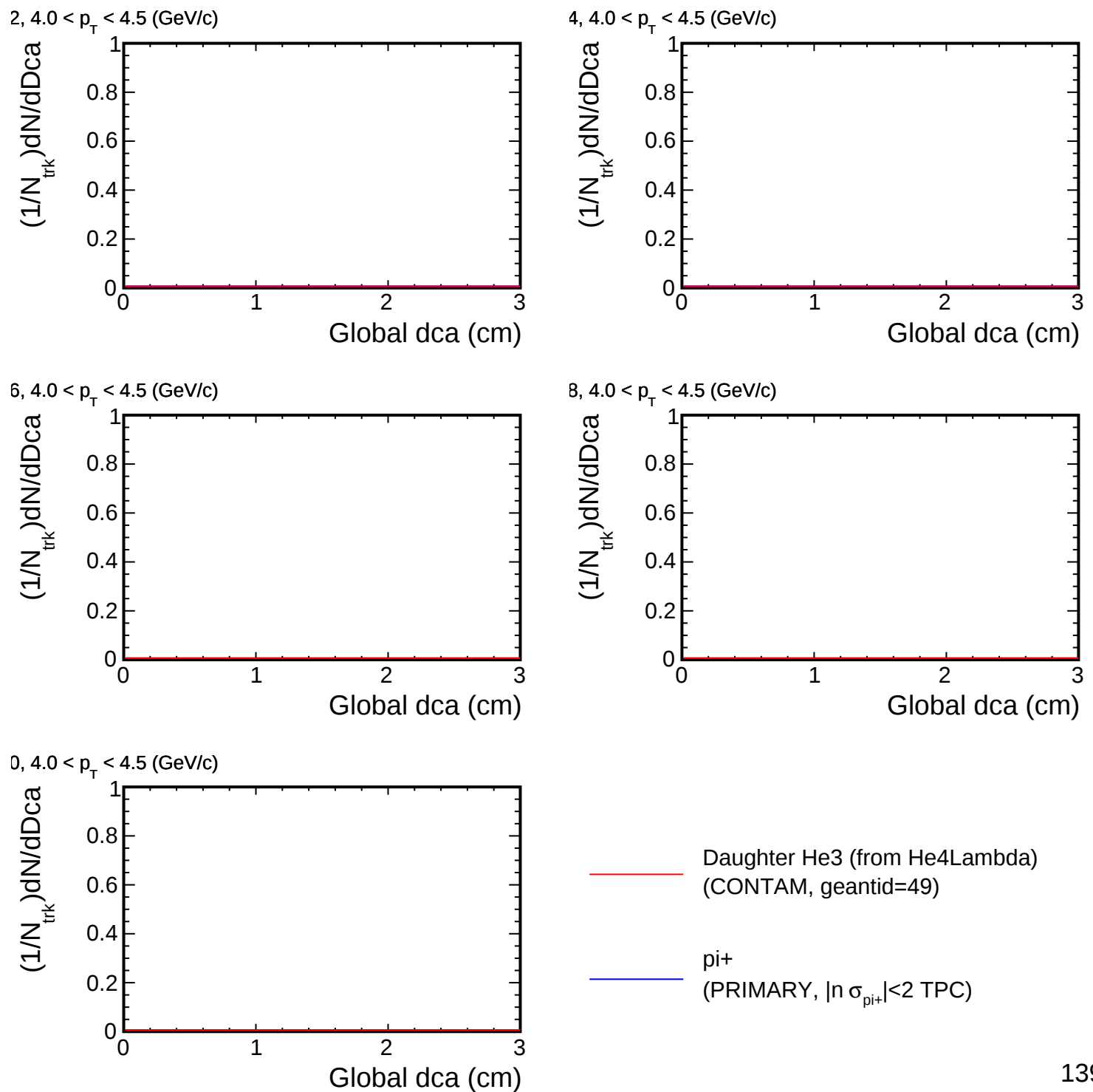
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

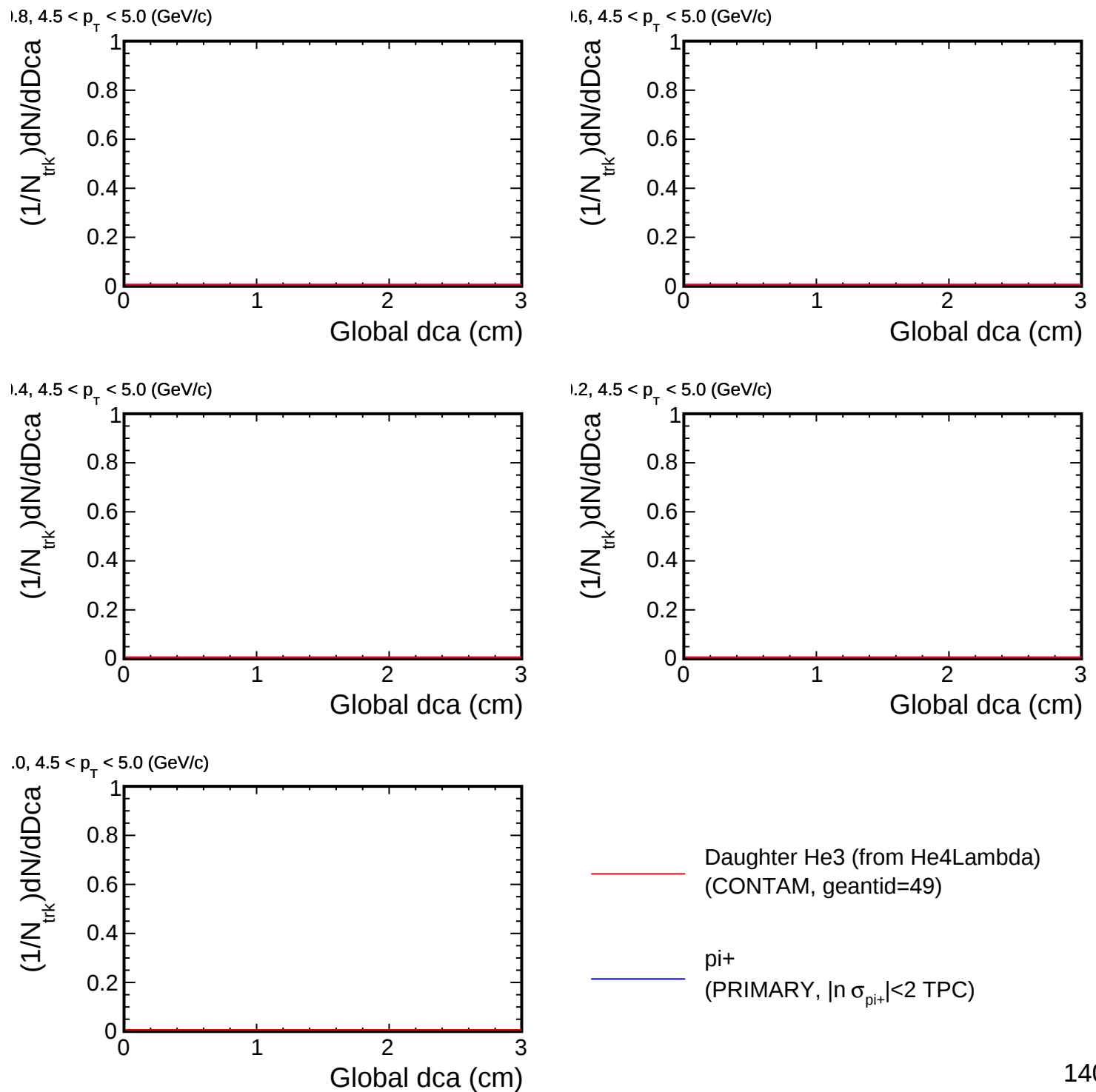
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices

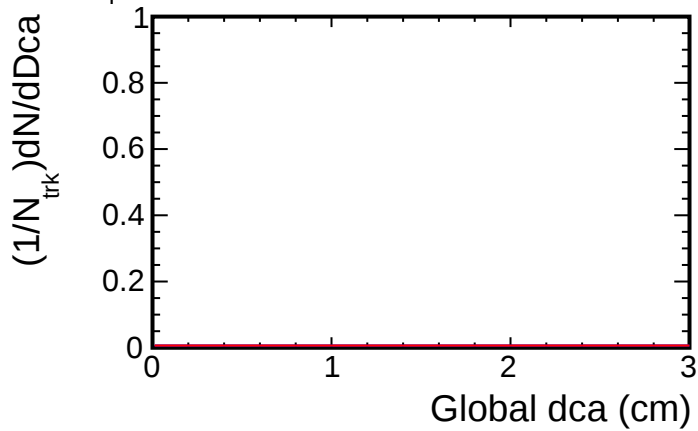


Dca distribution for (p_T , η) slices

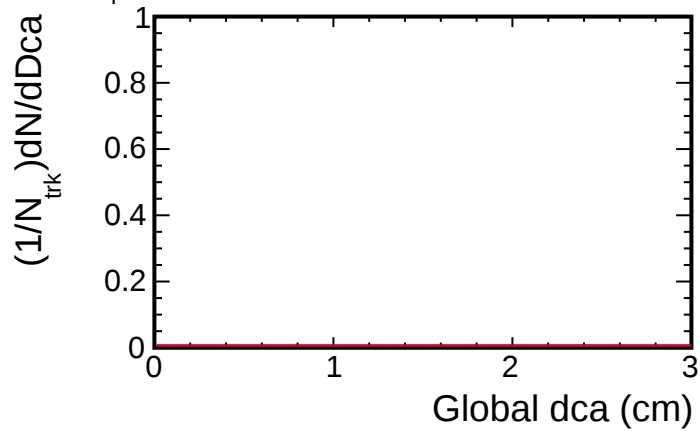


Dca distribution for (p_T , η) slices

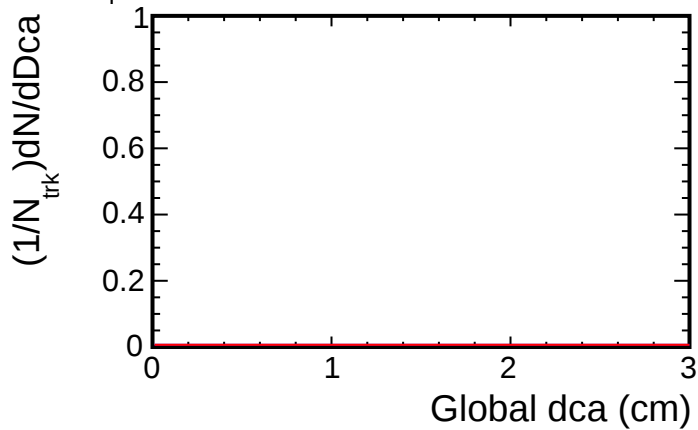
2, $4.5 < p_T < 5.0$ (GeV/c)



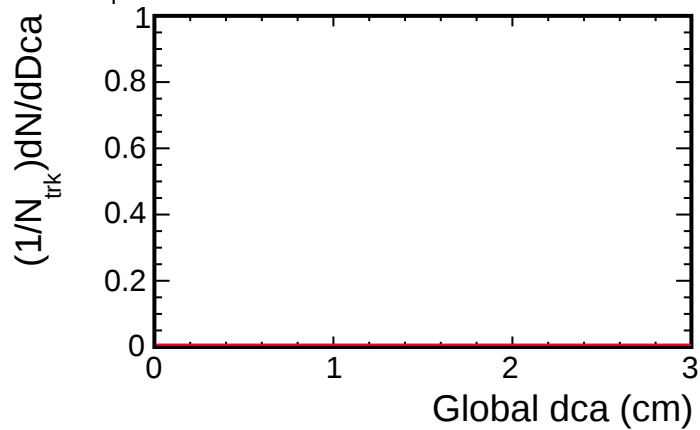
4, $4.5 < p_T < 5.0$ (GeV/c)



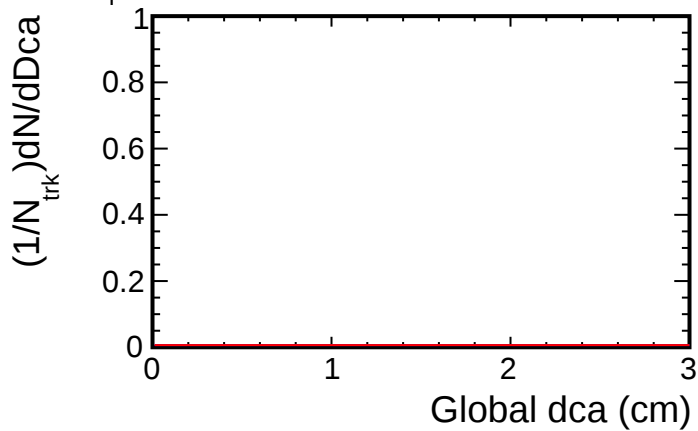
6, $4.5 < p_T < 5.0$ (GeV/c)



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



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

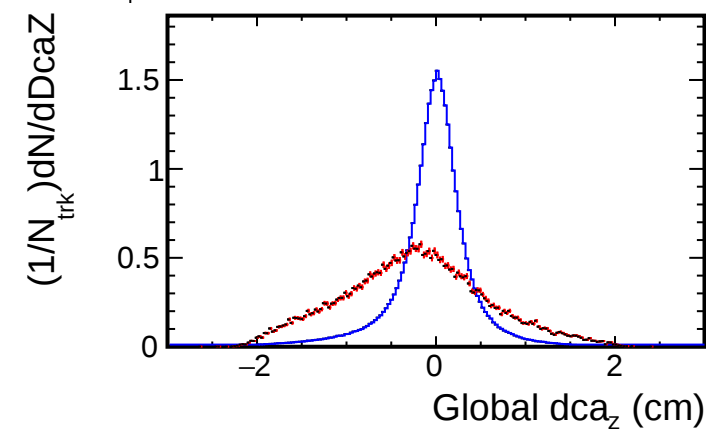


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

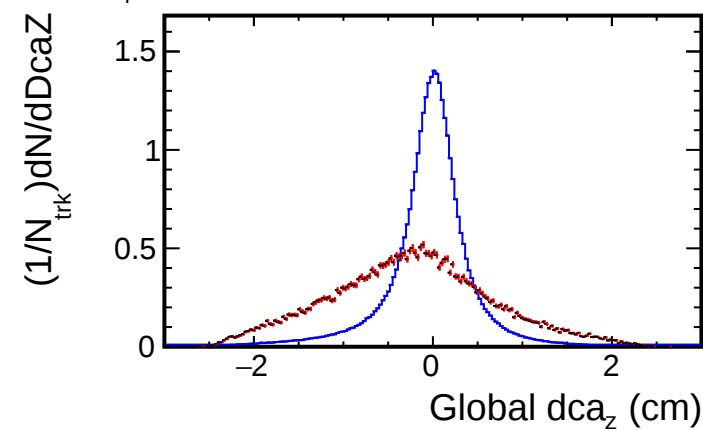
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

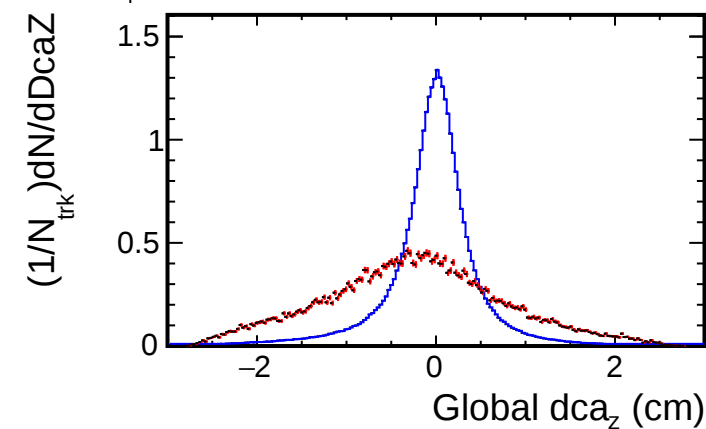
1.8, $0.1 < p_T < 0.5$ (GeV/c)



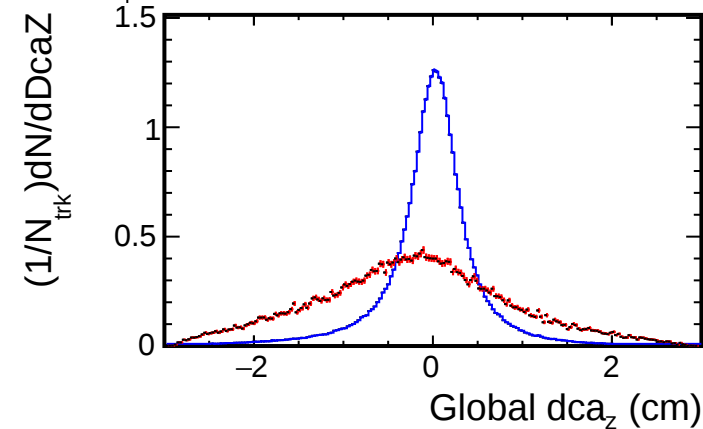
1.6, $0.1 < p_T < 0.5$ (GeV/c)



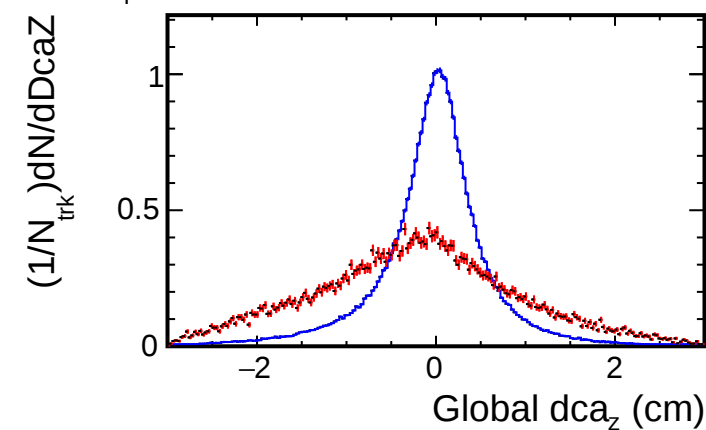
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



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

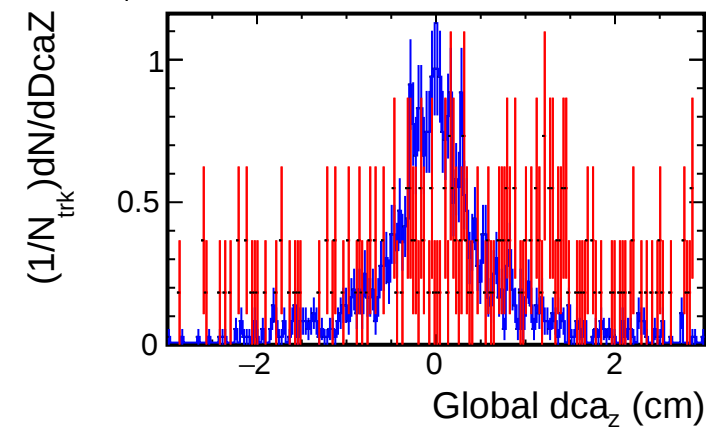


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

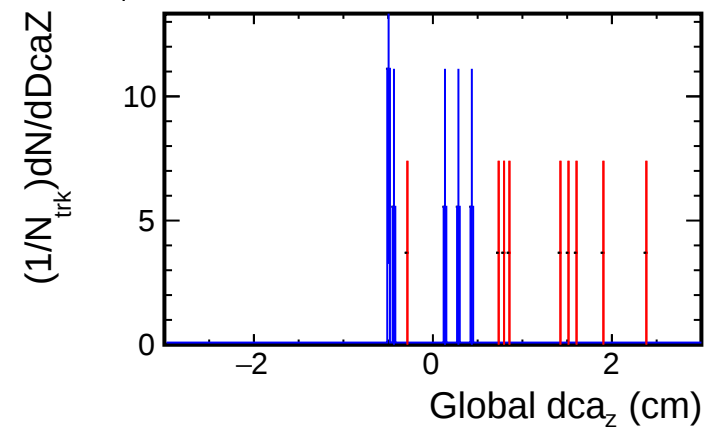
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

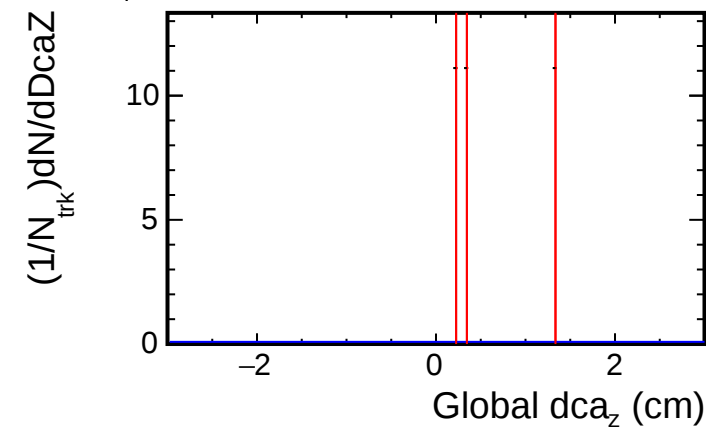
2, $0.1 < p_T < 0.5$ (GeV/c)



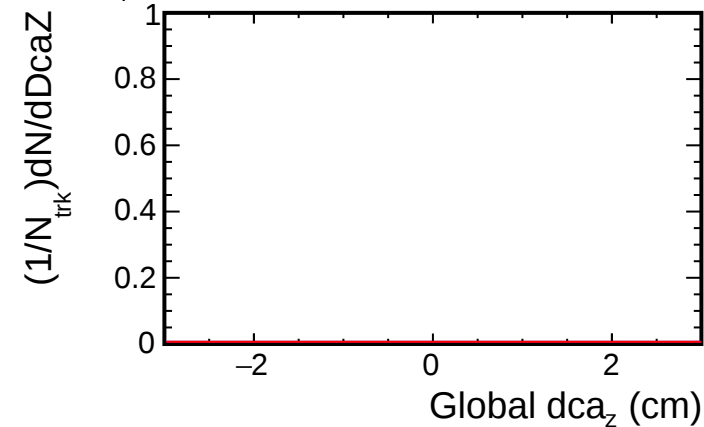
4, $0.1 < p_T < 0.5$ (GeV/c)



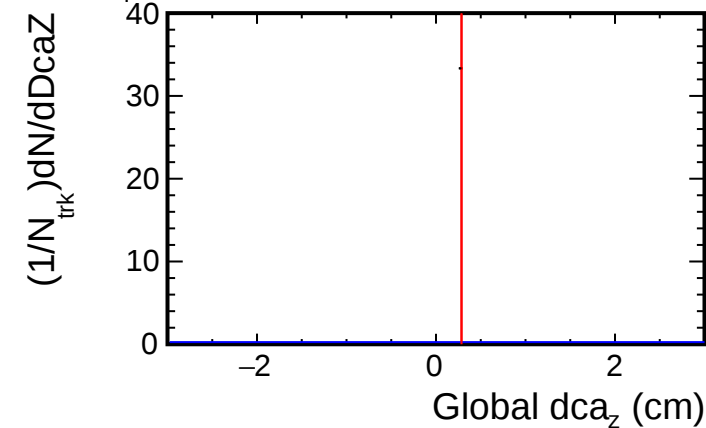
6, $0.1 < p_T < 0.5$ (GeV/c)



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



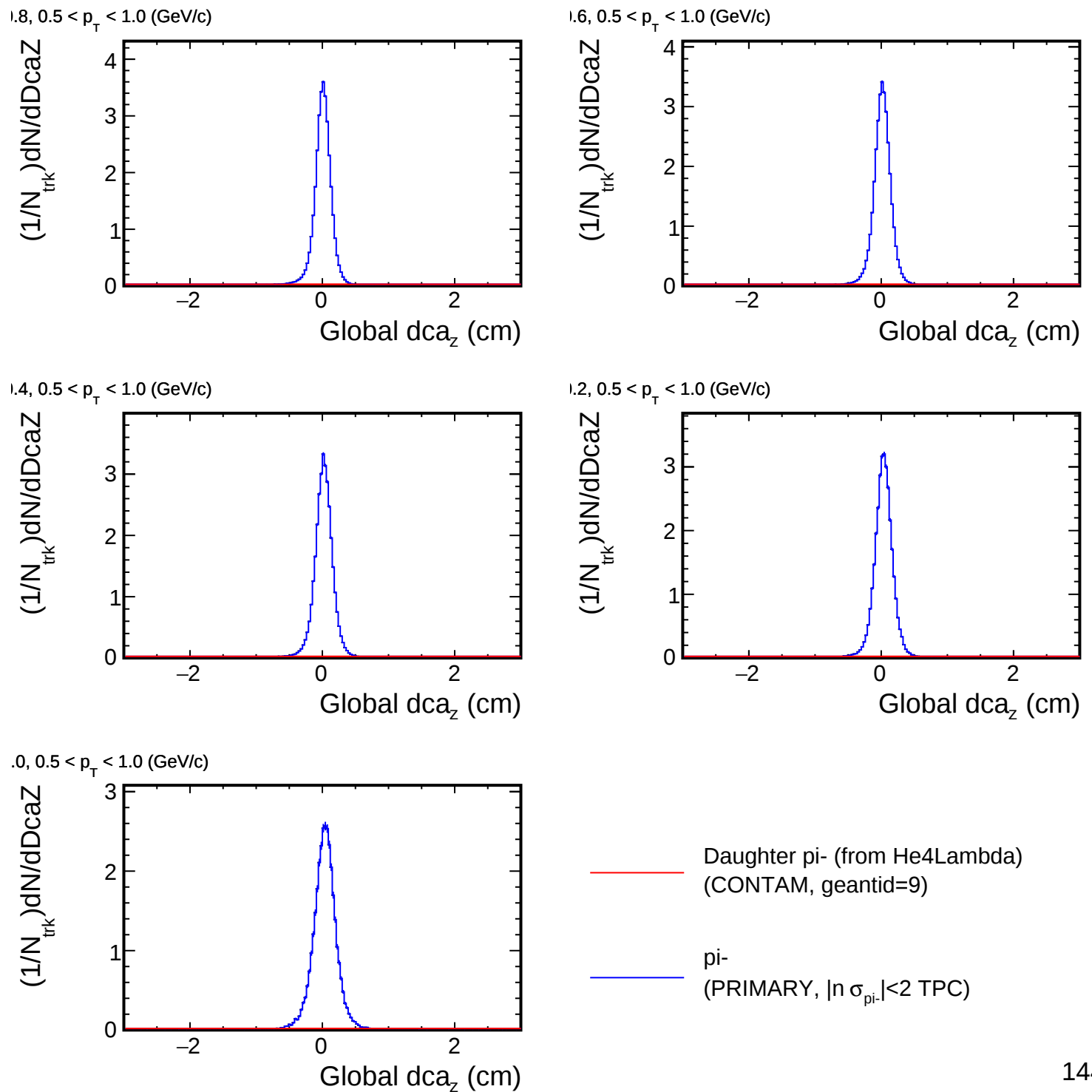
0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

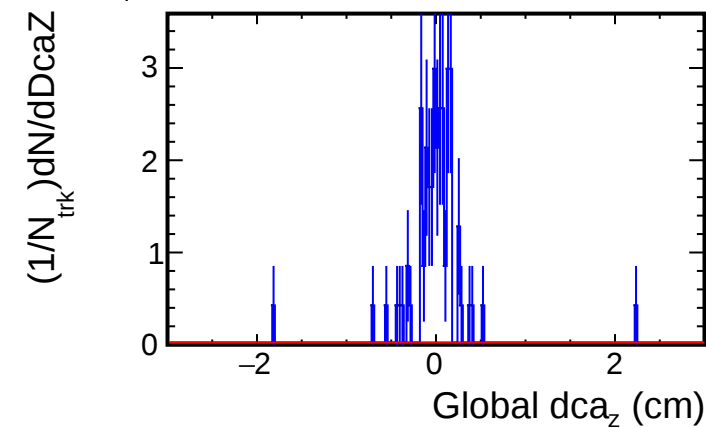
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

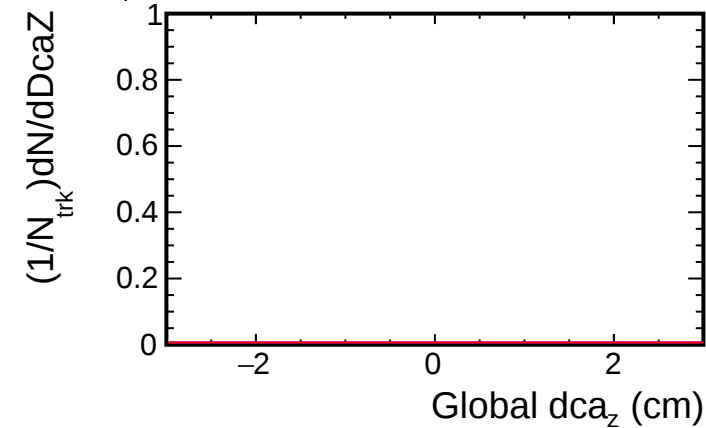


DcaZ distribution for (p_T , η) slices

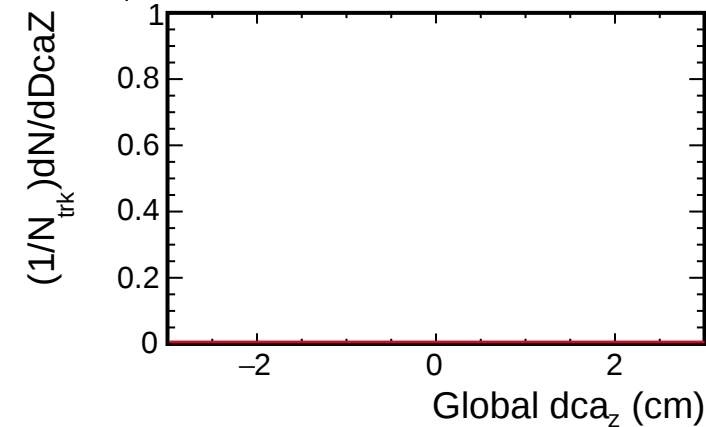
2, $0.5 < p_T < 1.0$ (GeV/c)



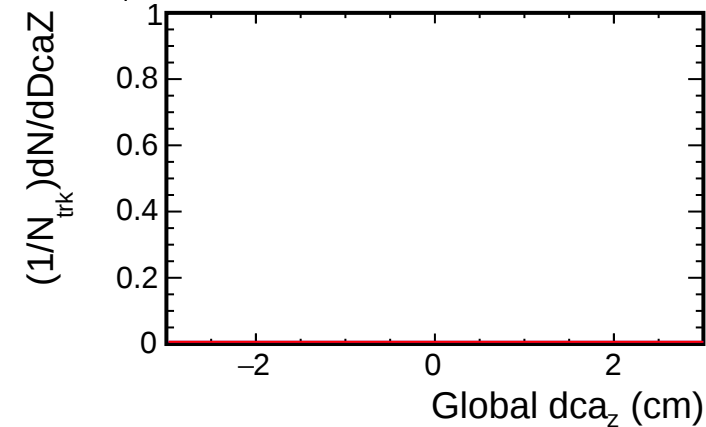
4, $0.5 < p_T < 1.0$ (GeV/c)



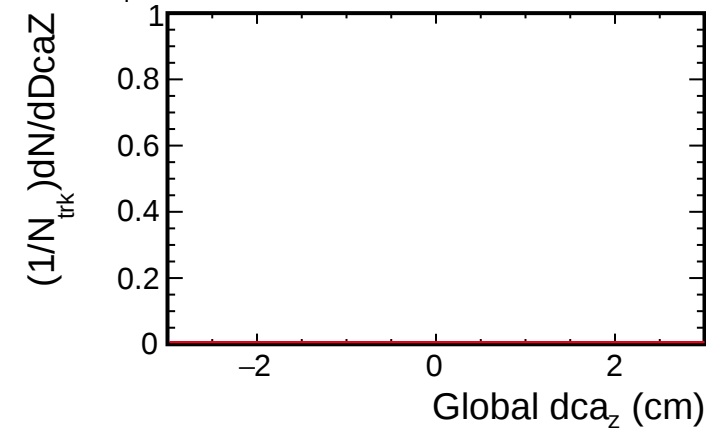
6, $0.5 < p_T < 1.0$ (GeV/c)



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



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

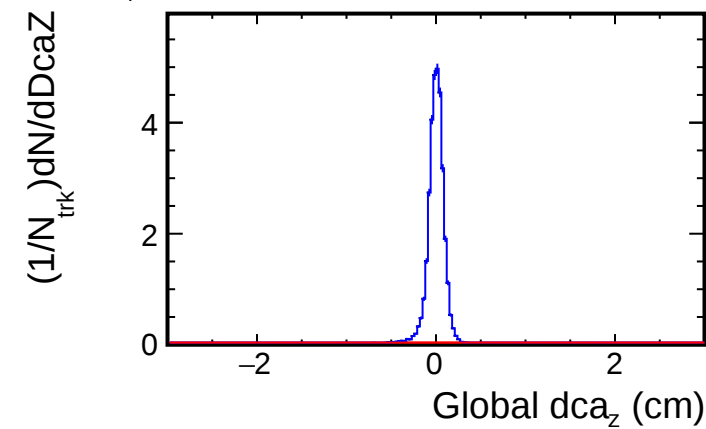


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

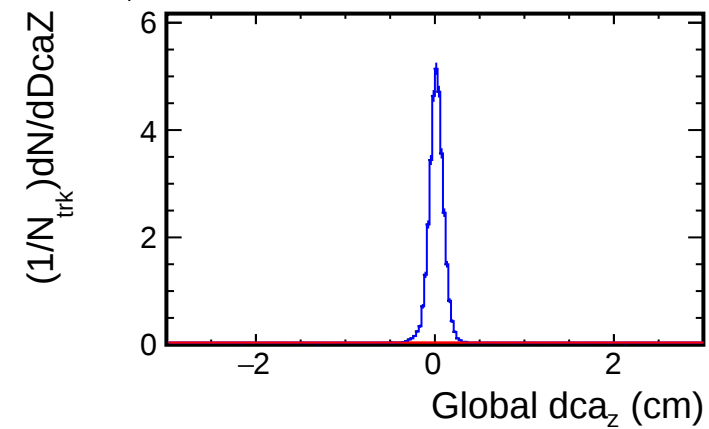
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

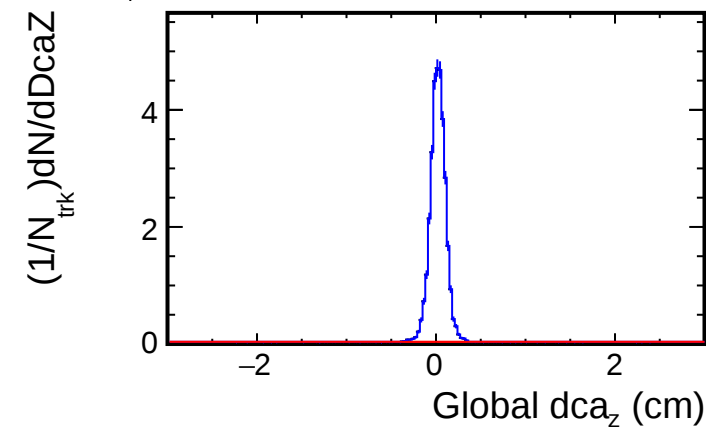
1.8, $1.0 < p_T < 1.5$ (GeV/c)



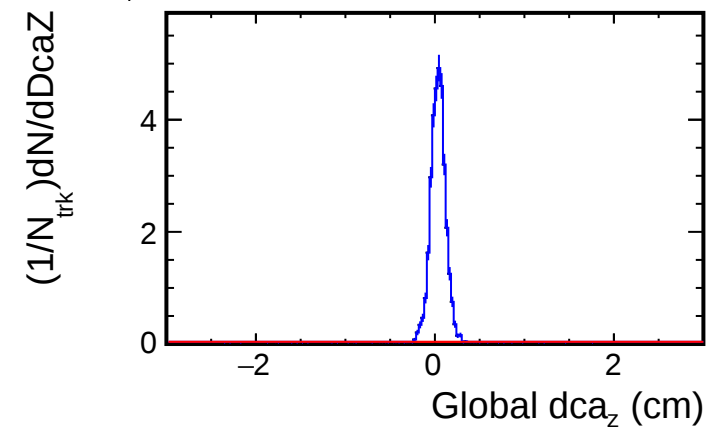
1.6, $1.0 < p_T < 1.5$ (GeV/c)



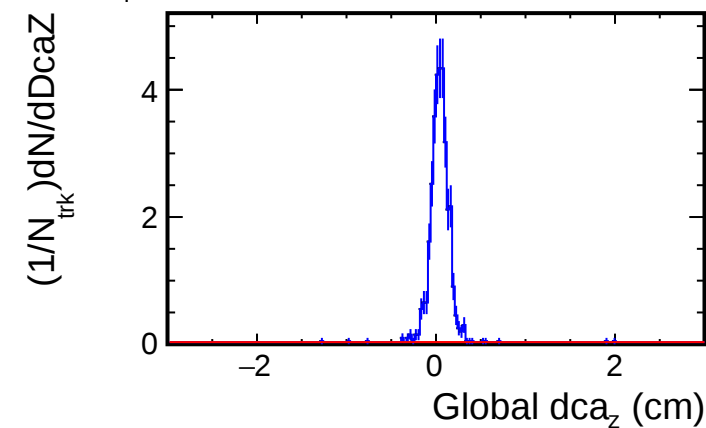
1.4, $1.0 < p_T < 1.5$ (GeV/c)



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



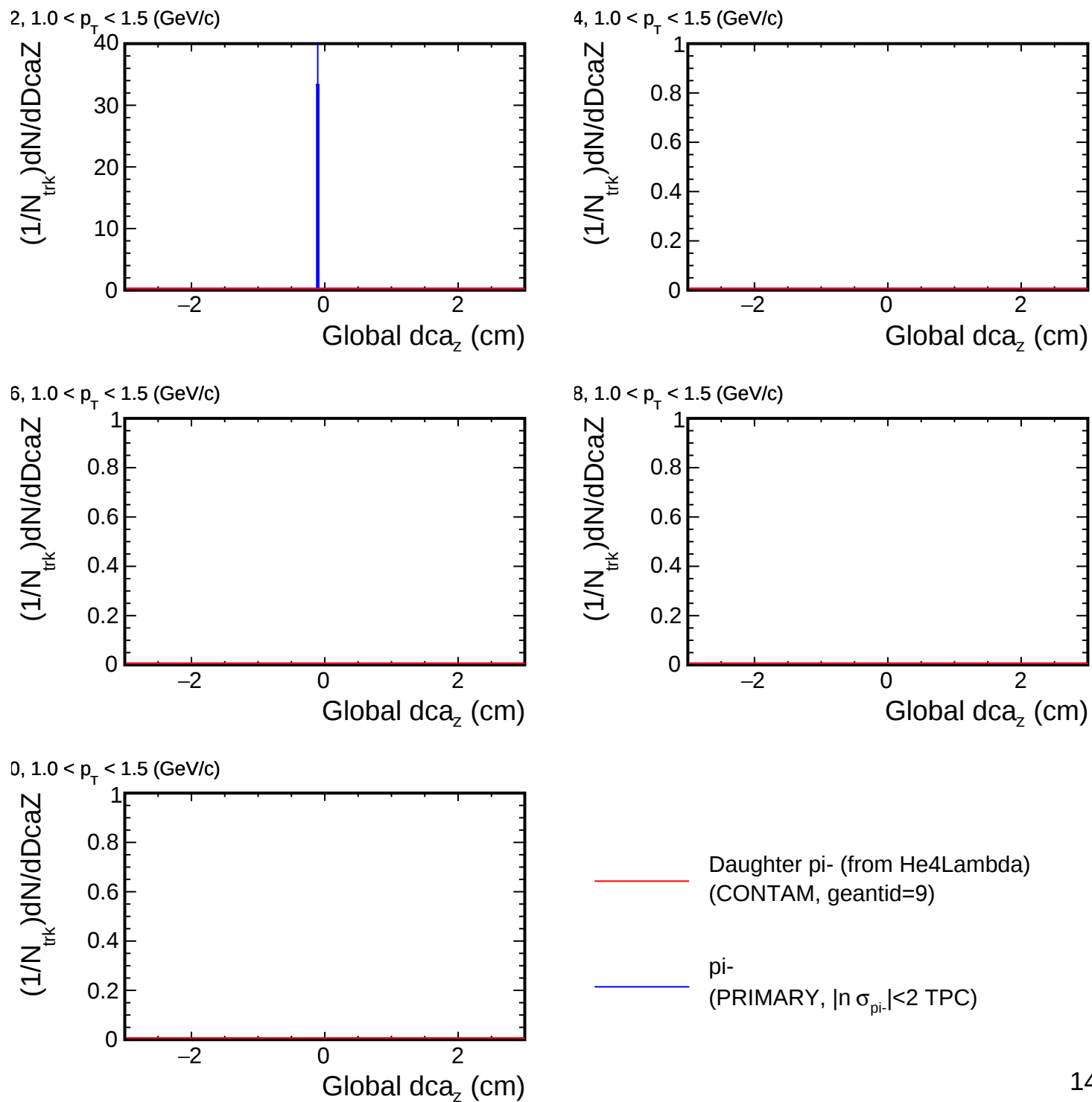
1.0, $1.0 < p_T < 1.5$ (GeV/c)



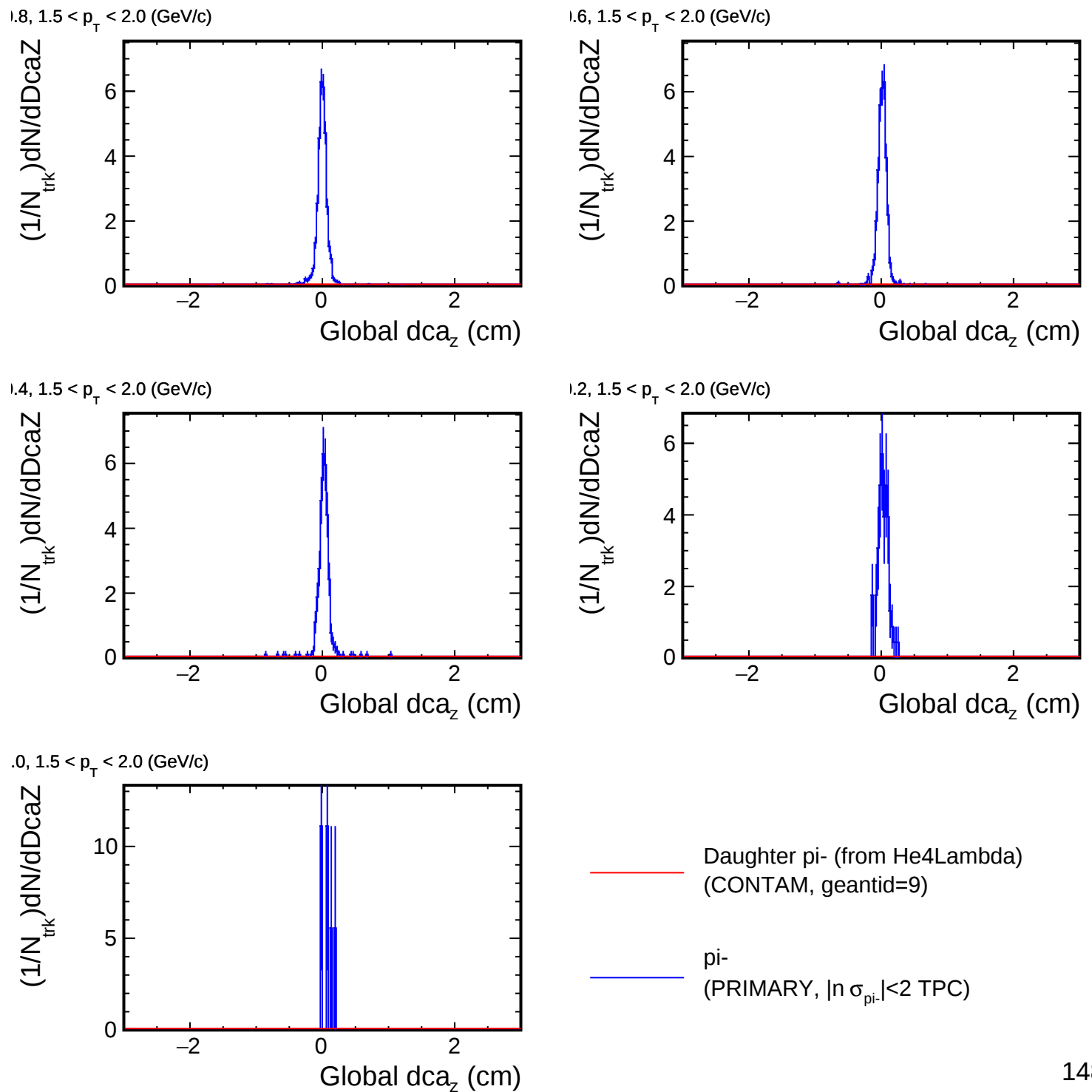
— Daughter pi⁻ (from He4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices

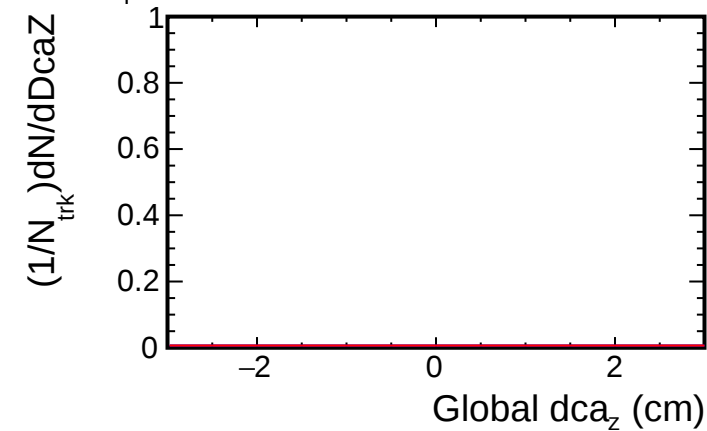


DcaZ distribution for (p_T , η) slices

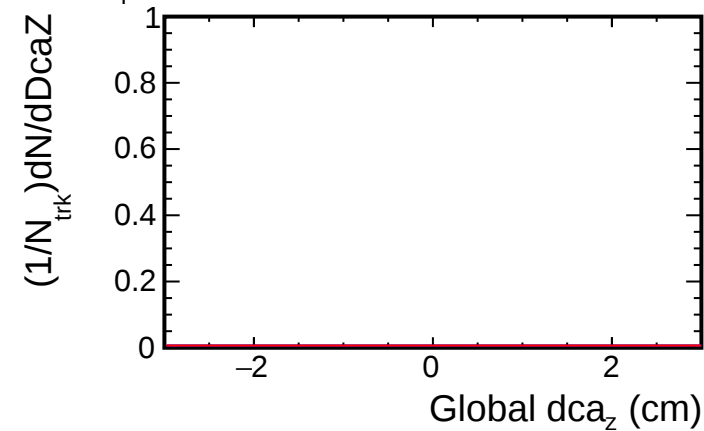


DcaZ distribution for (p_T , η) slices

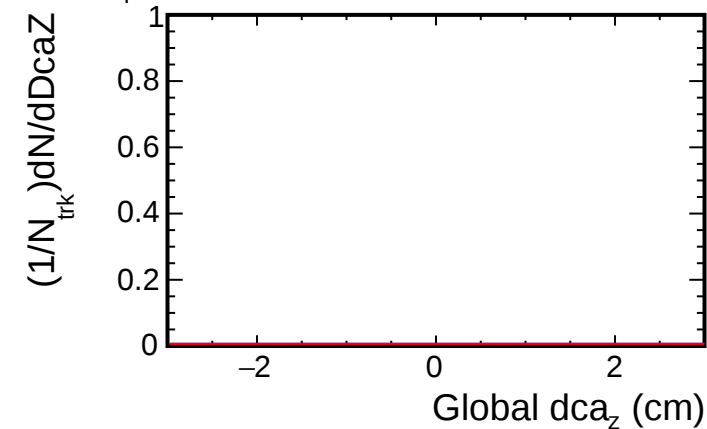
2, $1.5 < p_T < 2.0$ (GeV/c)



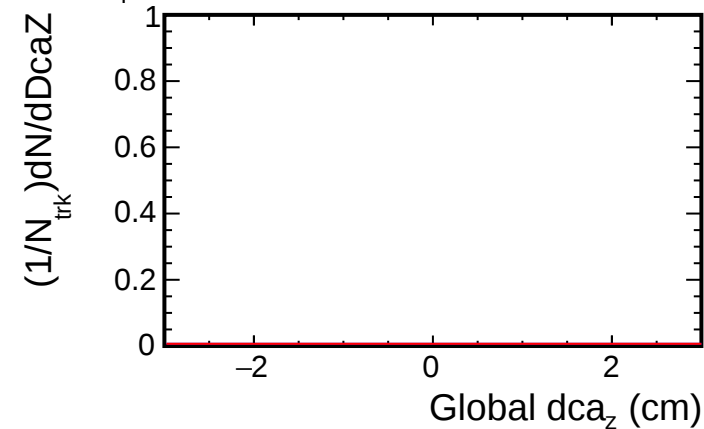
4, $1.5 < p_T < 2.0$ (GeV/c)



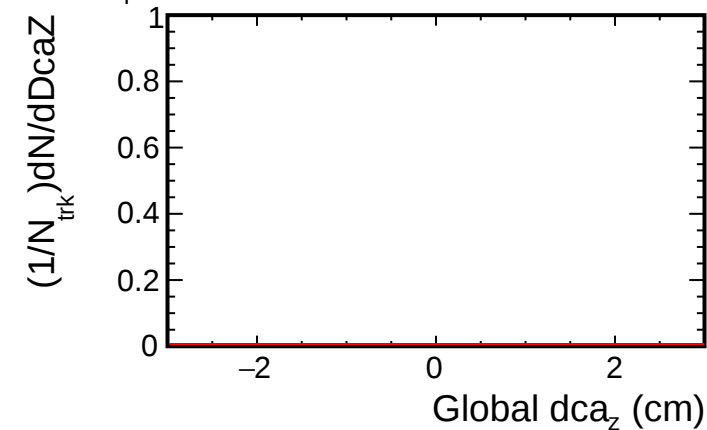
6, $1.5 < p_T < 2.0$ (GeV/c)



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



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

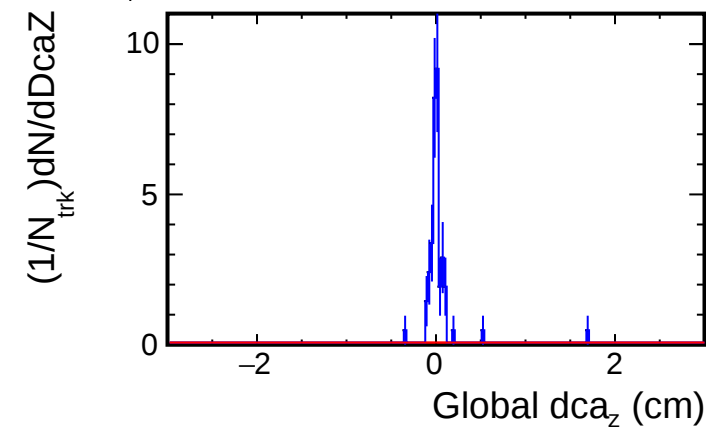


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

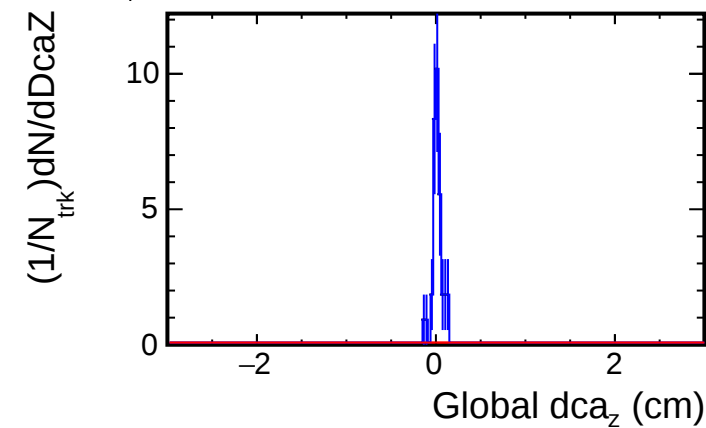
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

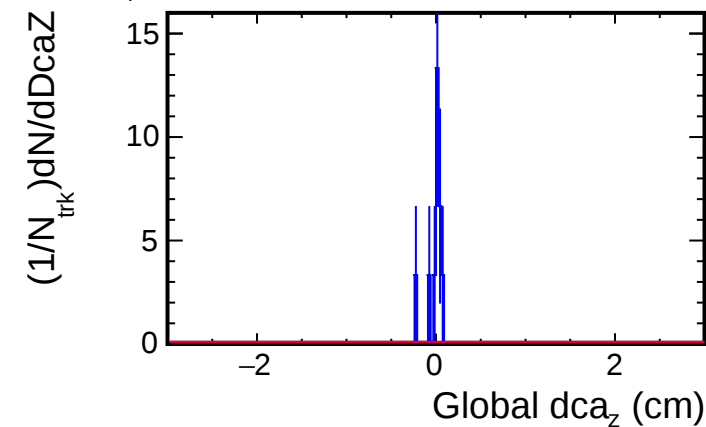
1.8, $2.0 < p_T < 2.5$ (GeV/c)



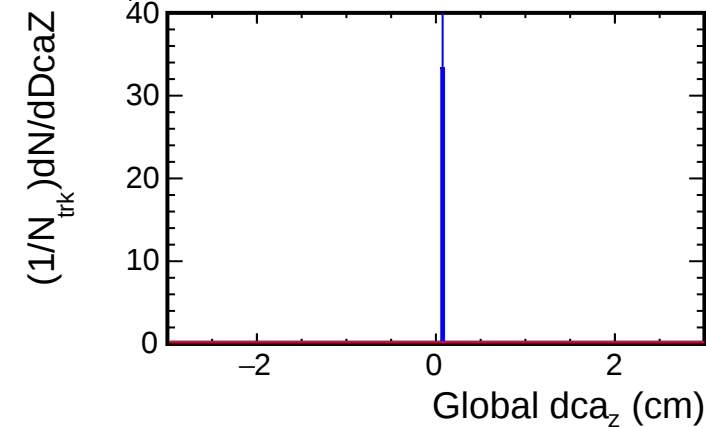
1.6, $2.0 < p_T < 2.5$ (GeV/c)



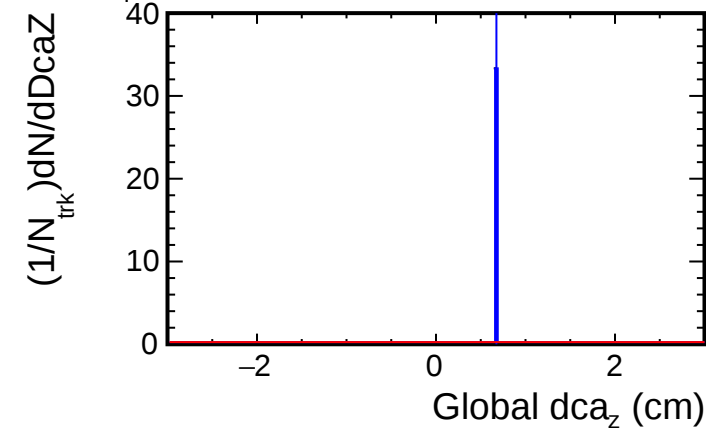
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



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

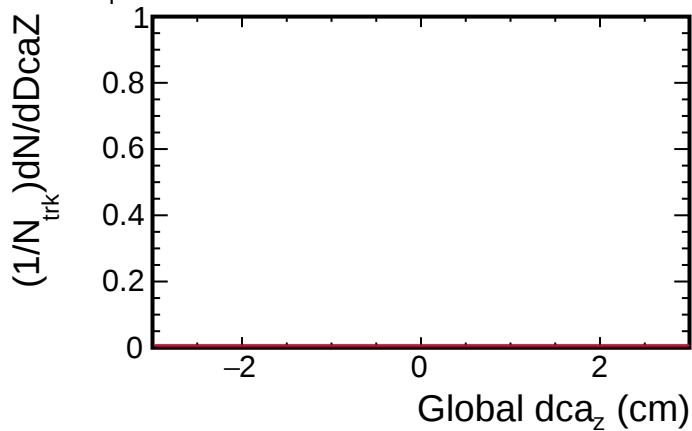


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

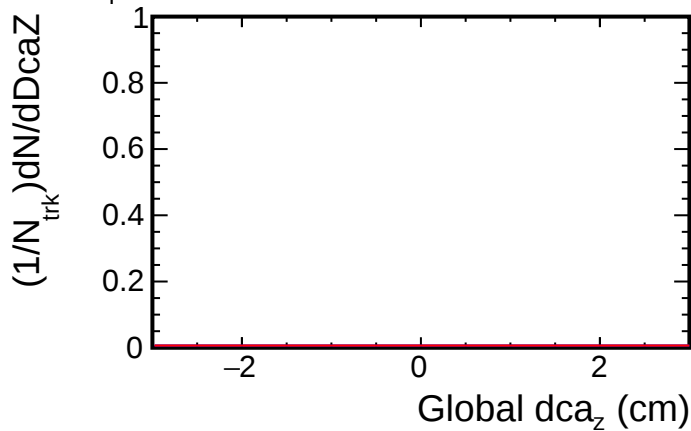
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

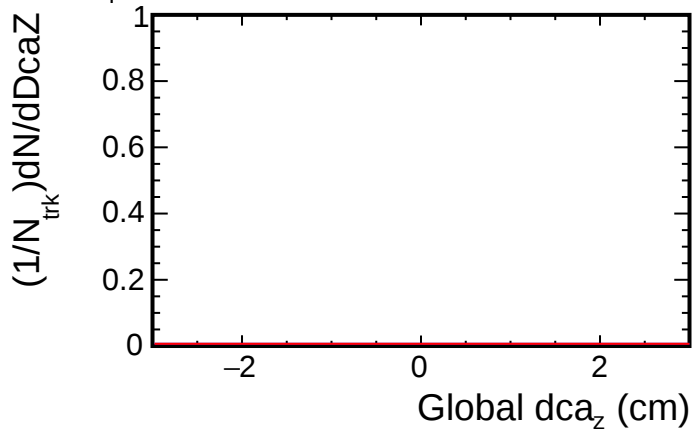
2, $2.0 < p_T < 2.5$ (GeV/c)



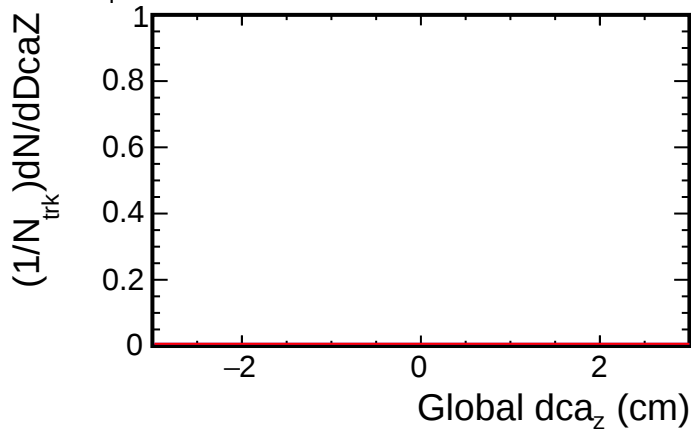
4, $2.0 < p_T < 2.5$ (GeV/c)



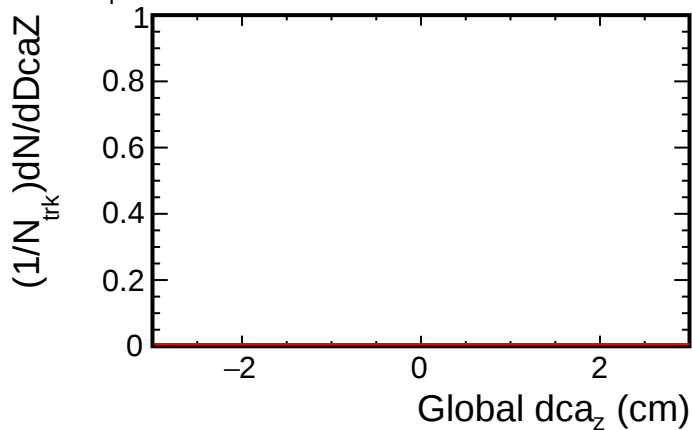
6, $2.0 < p_T < 2.5$ (GeV/c)



8, $2.0 < p_T < 2.5$ (GeV/c)



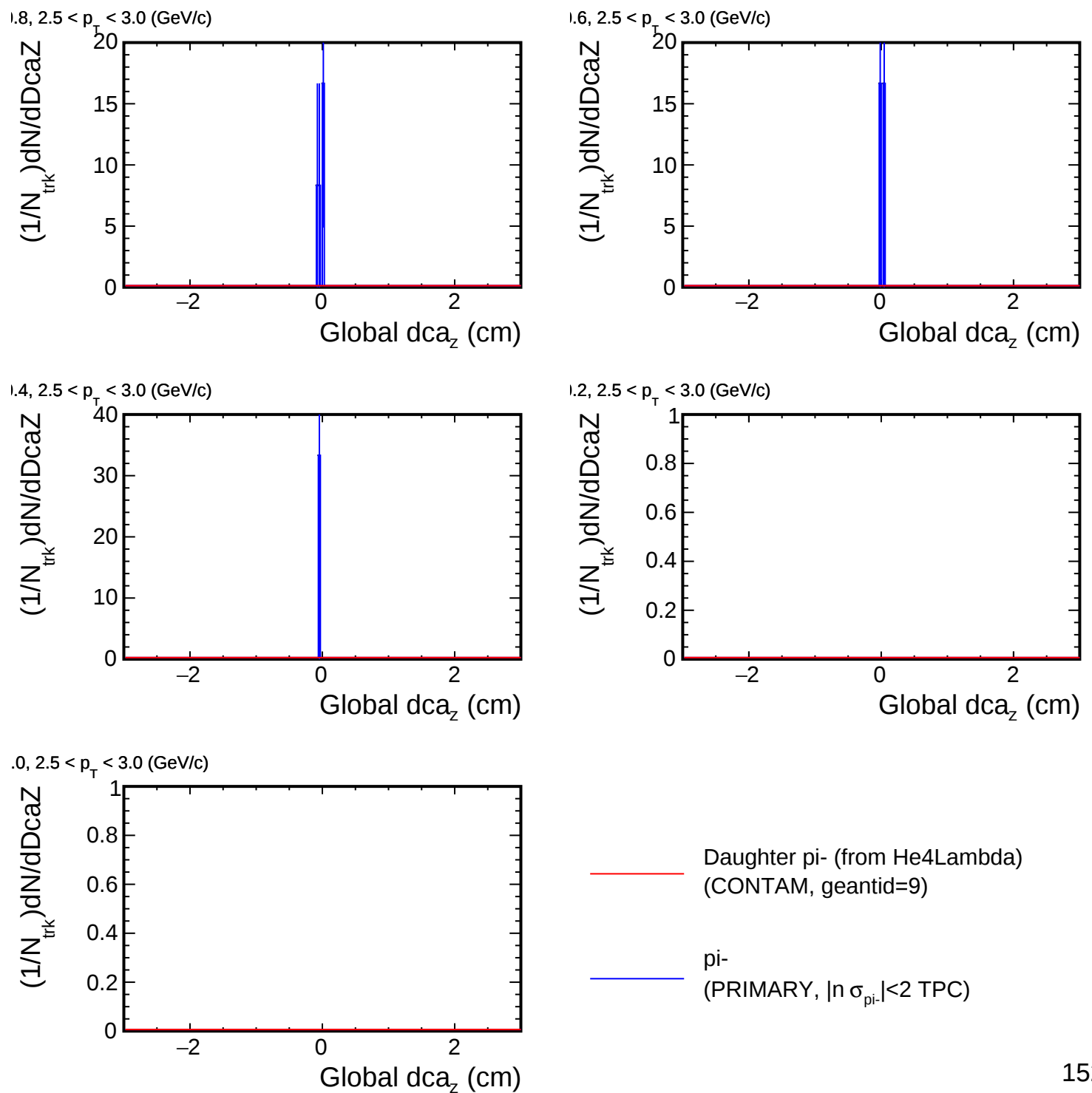
0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

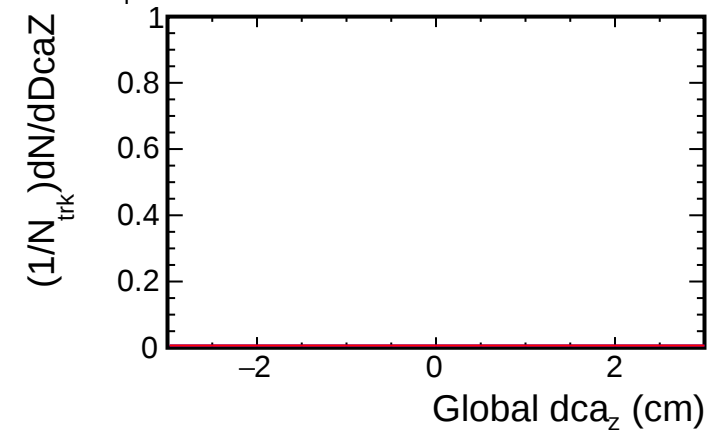
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

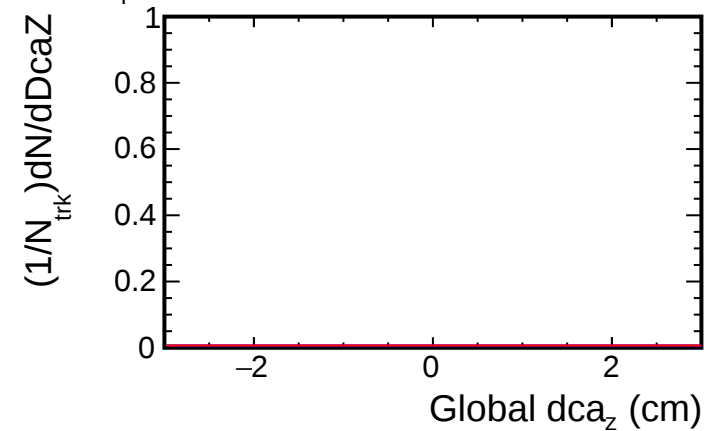


DcaZ distribution for (p_T , η) slices

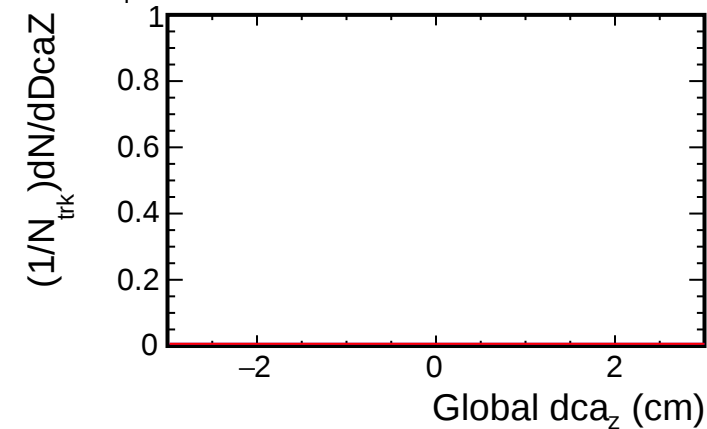
2, $2.5 < p_T < 3.0$ (GeV/c)



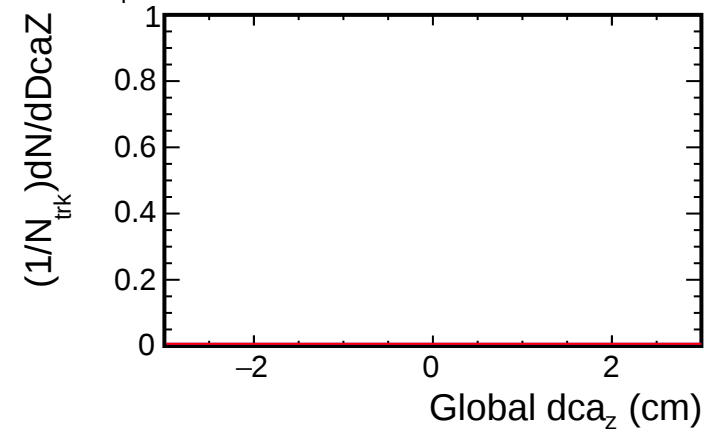
4, $2.5 < p_T < 3.0$ (GeV/c)



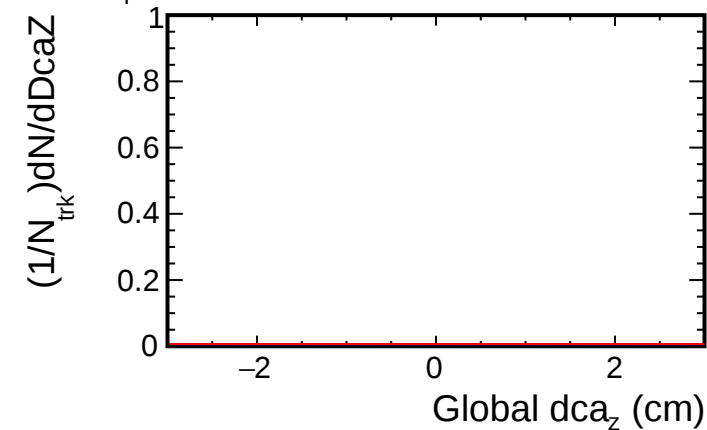
6, $2.5 < p_T < 3.0$ (GeV/c)



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



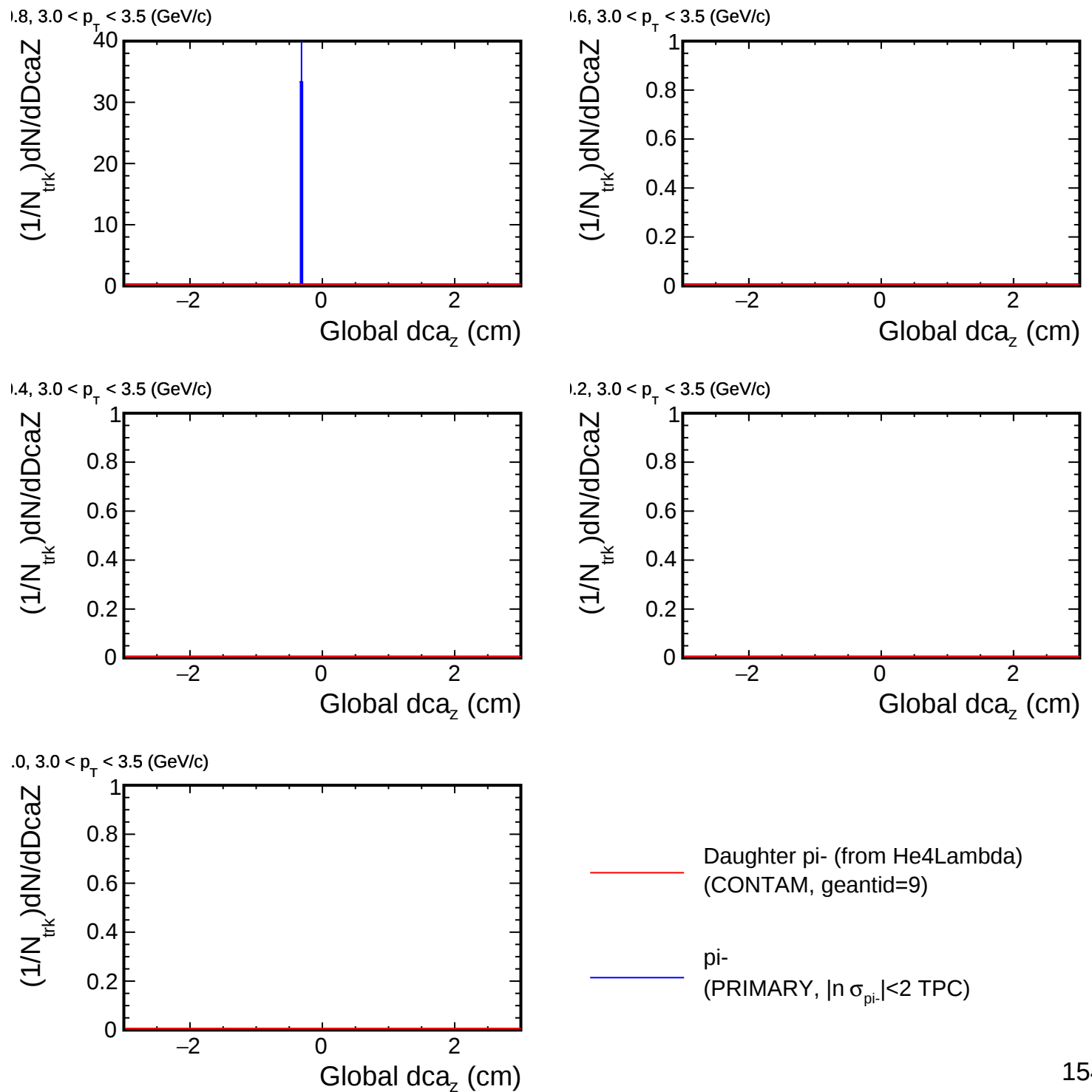
0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

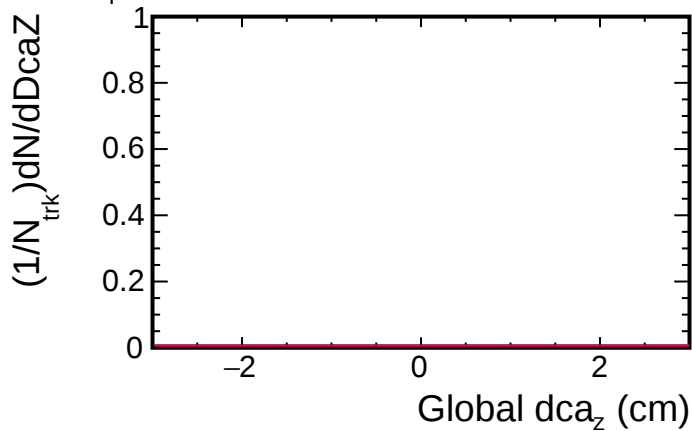
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

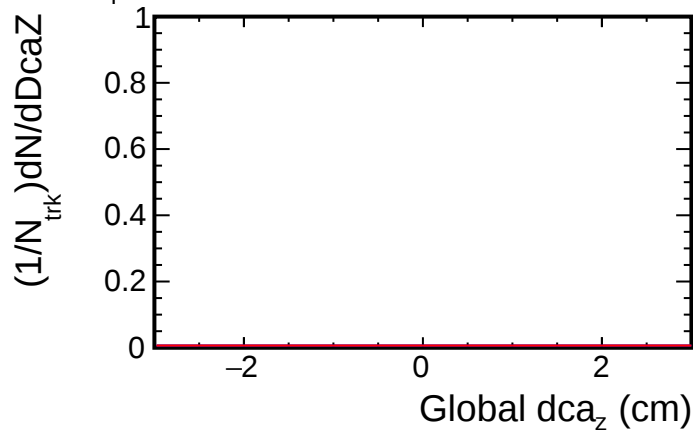


DcaZ distribution for (p_T , η) slices

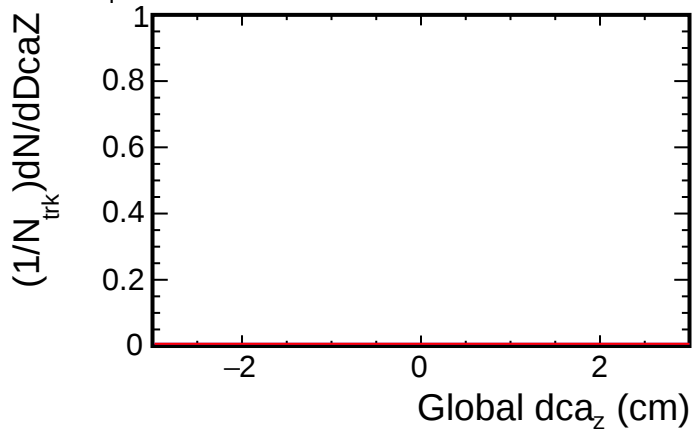
2, $3.0 < p_T < 3.5$ (GeV/c)



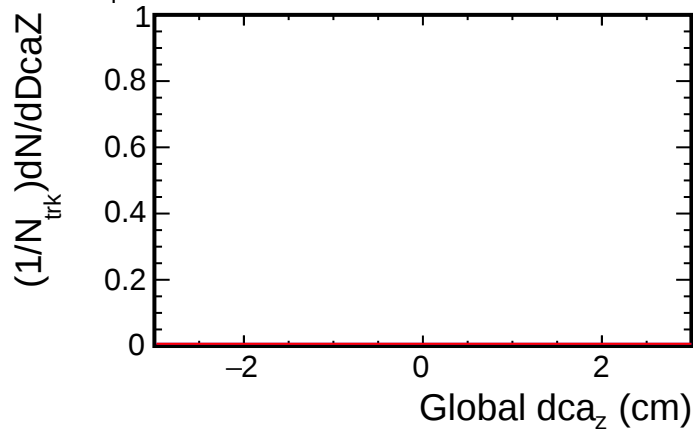
4, $3.0 < p_T < 3.5$ (GeV/c)



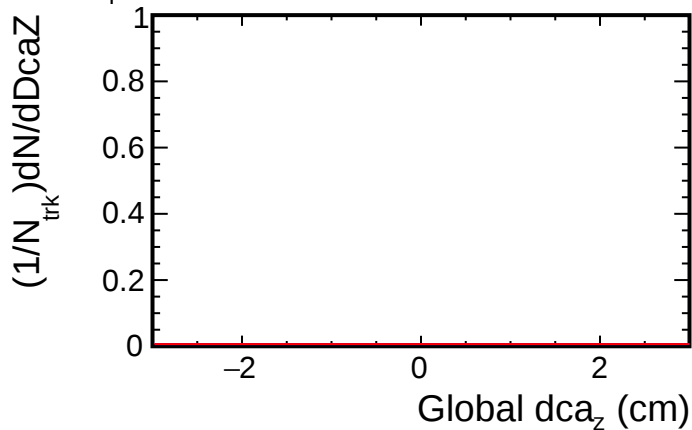
6, $3.0 < p_T < 3.5$ (GeV/c)



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



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

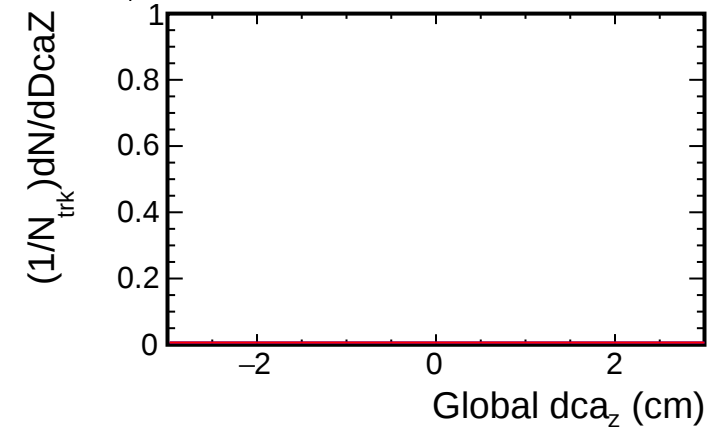


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

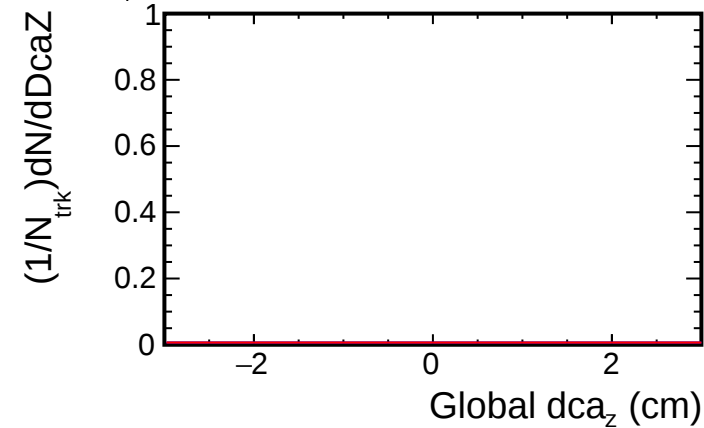
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T, η) slices

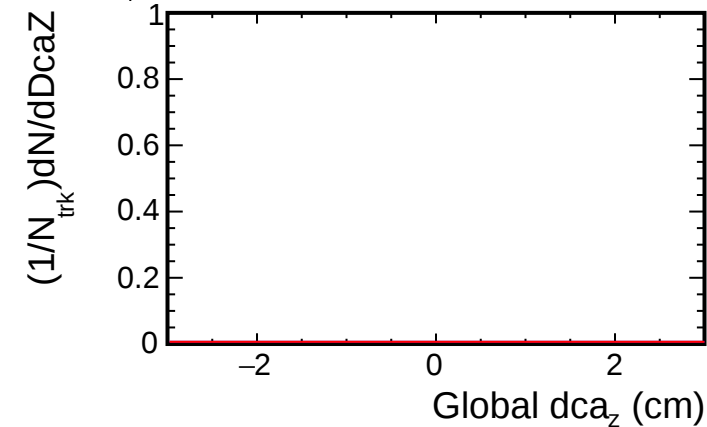
1.8, 3.5 < p_T < 4.0 (GeV/c)



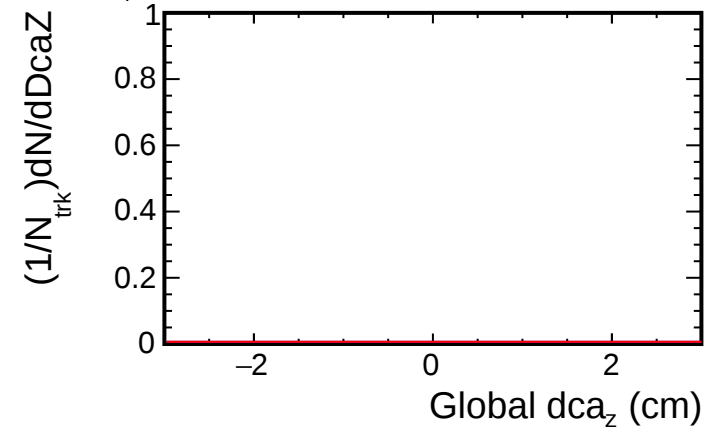
1.6, 3.5 < p_T < 4.0 (GeV/c)



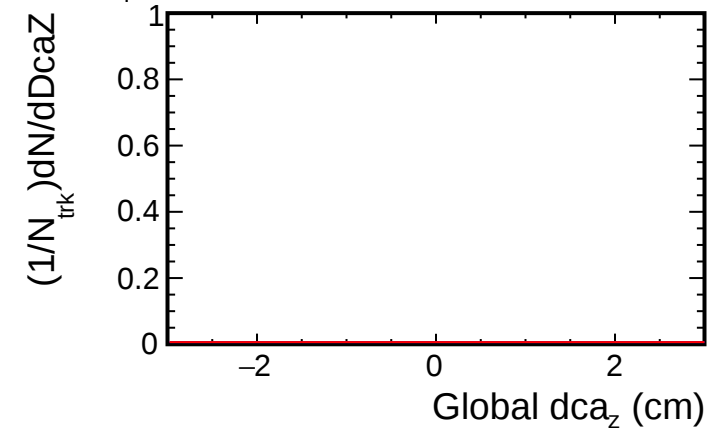
1.4, 3.5 < p_T < 4.0 (GeV/c)



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



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

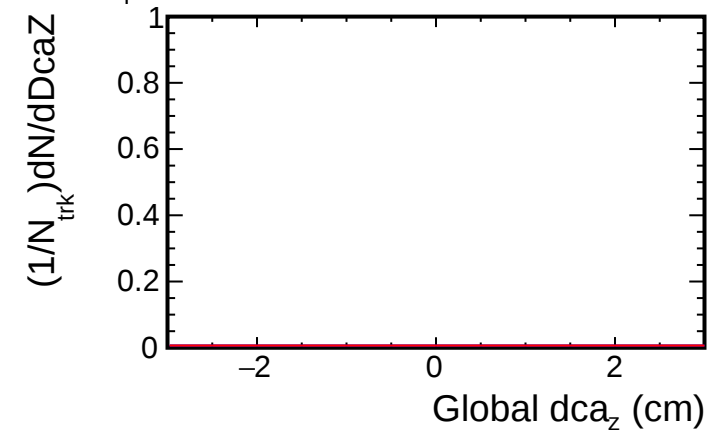


— Daughter pi⁻ (from He4Lambda)
(CONTAM, geantid=9)

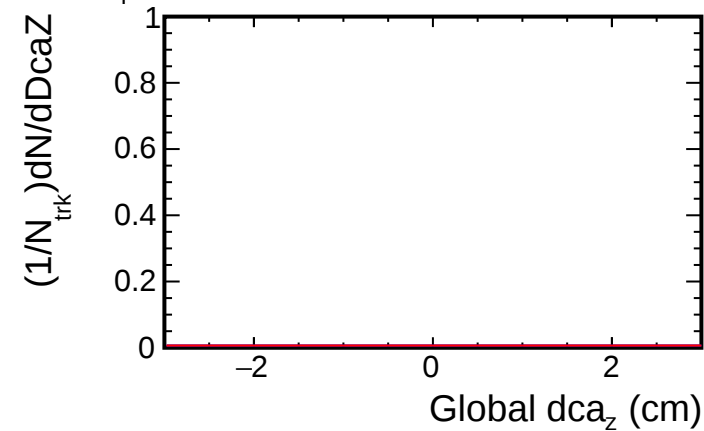
— pi⁻
(PRIMARY, |n σ_{pi⁻}| < 2 TPC)

DcaZ distribution for (p_T , η) slices

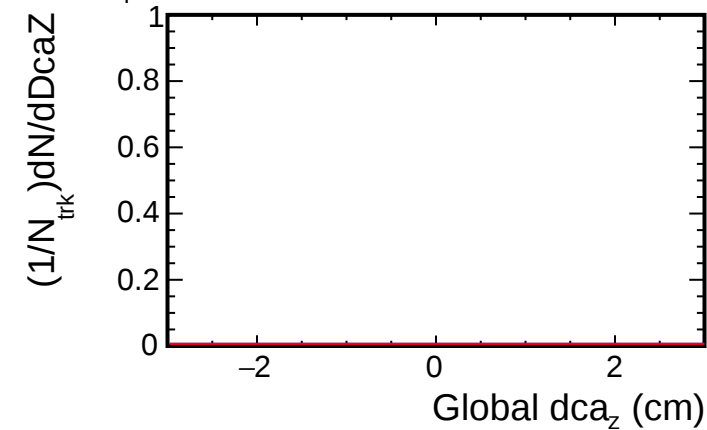
2, $3.5 < p_T < 4.0$ (GeV/c)



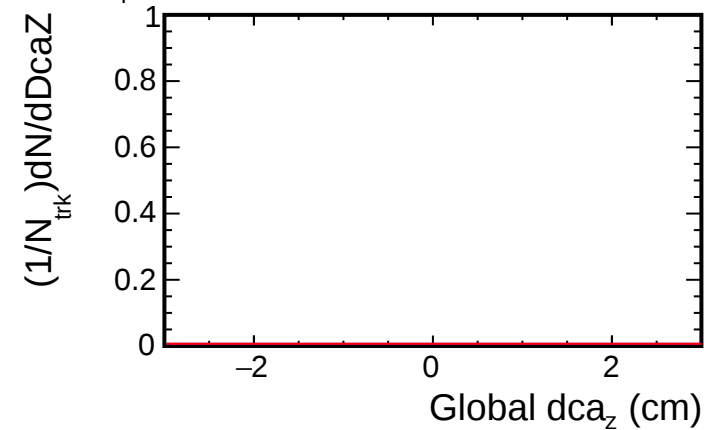
4, $3.5 < p_T < 4.0$ (GeV/c)



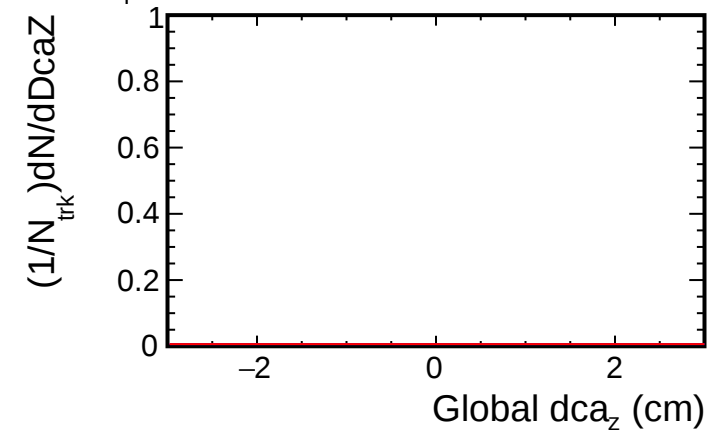
6, $3.5 < p_T < 4.0$ (GeV/c)



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



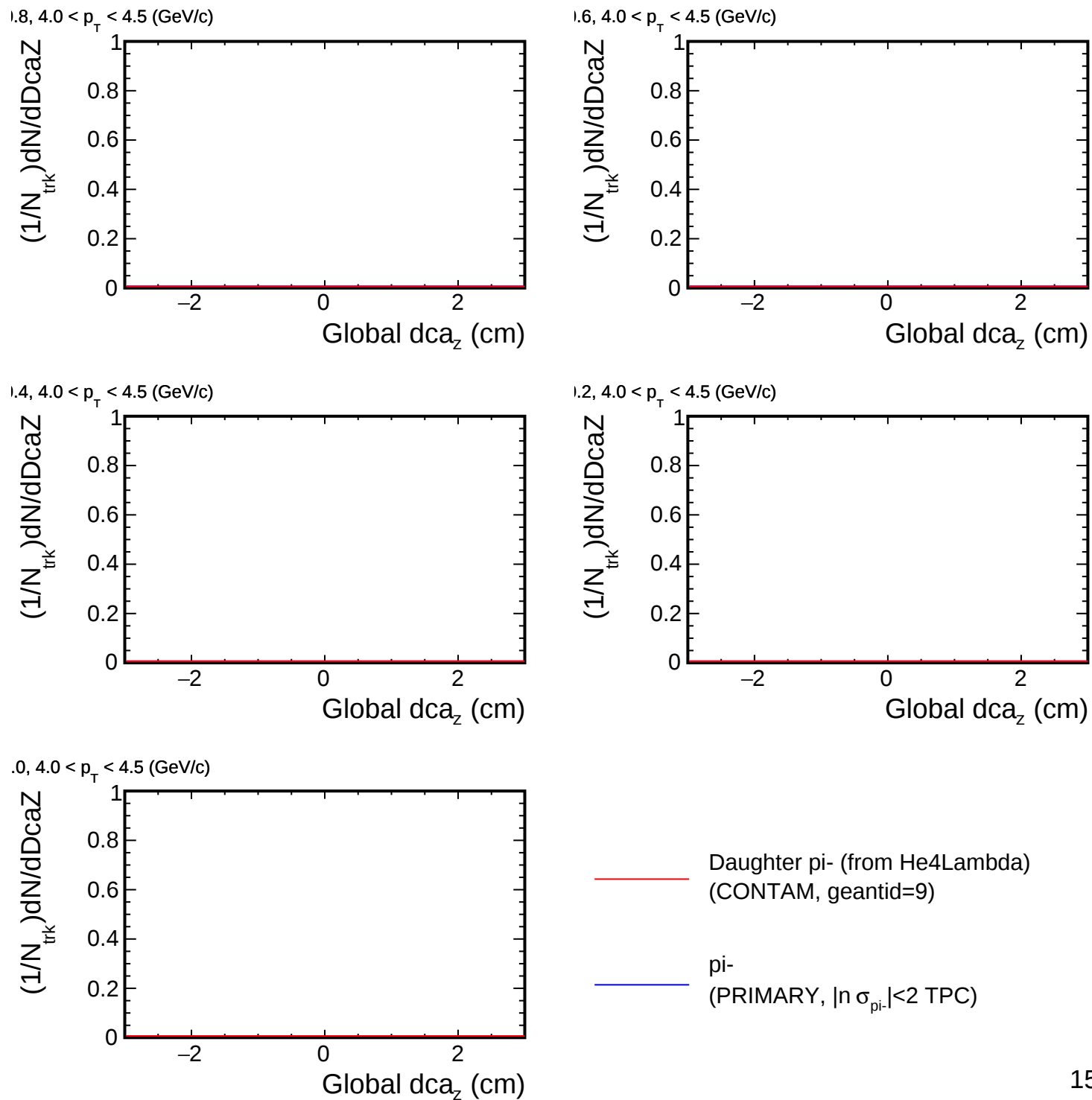
0, $3.5 < p_T < 4.0$ (GeV/c)



— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

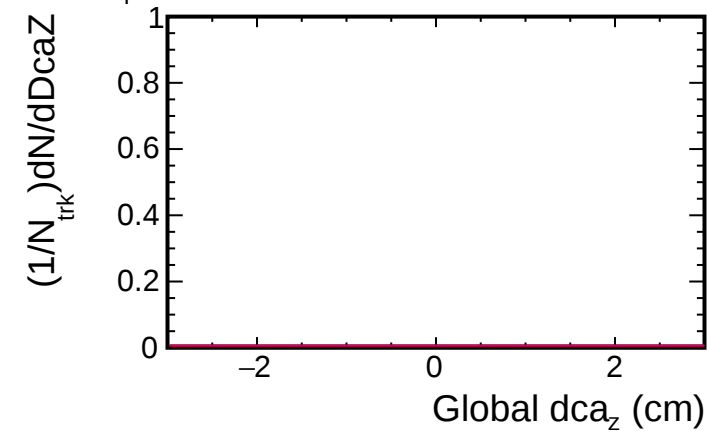
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

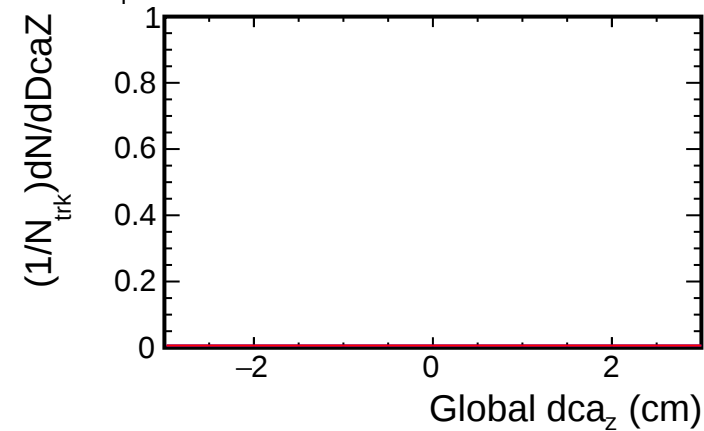


DcaZ distribution for (p_T , η) slices

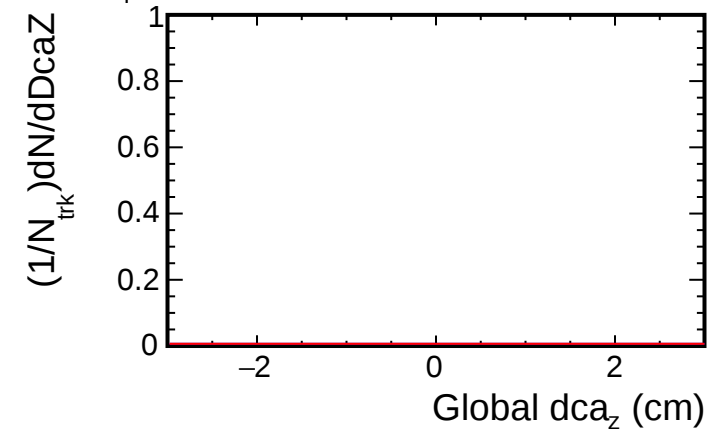
2, $4.0 < p_T < 4.5$ (GeV/c)



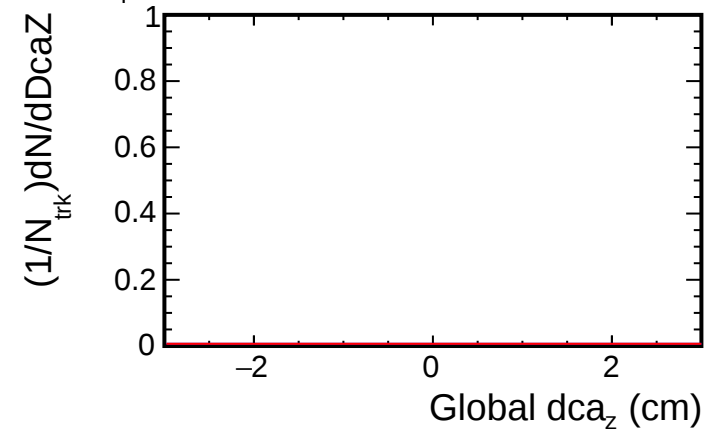
4, $4.0 < p_T < 4.5$ (GeV/c)



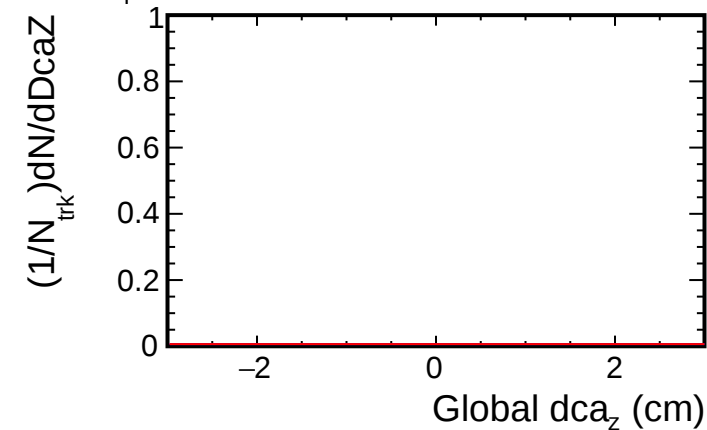
6, $4.0 < p_T < 4.5$ (GeV/c)



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



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

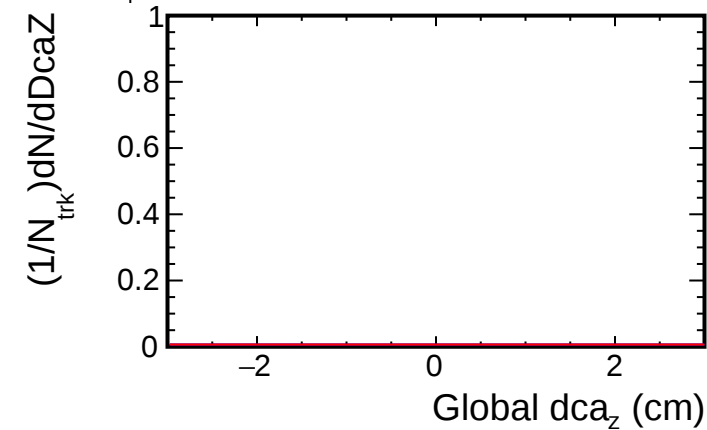


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

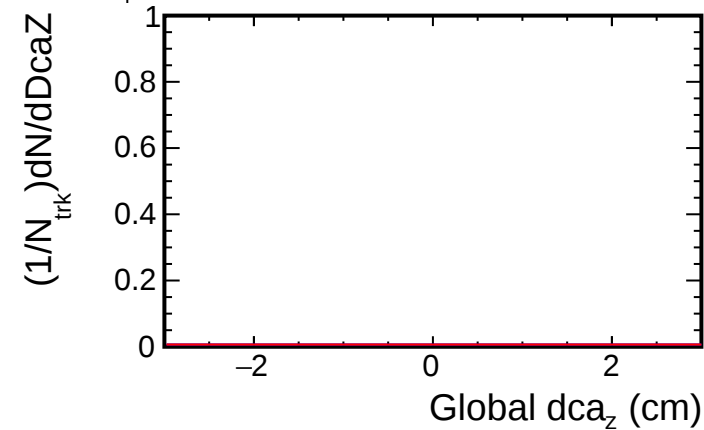
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

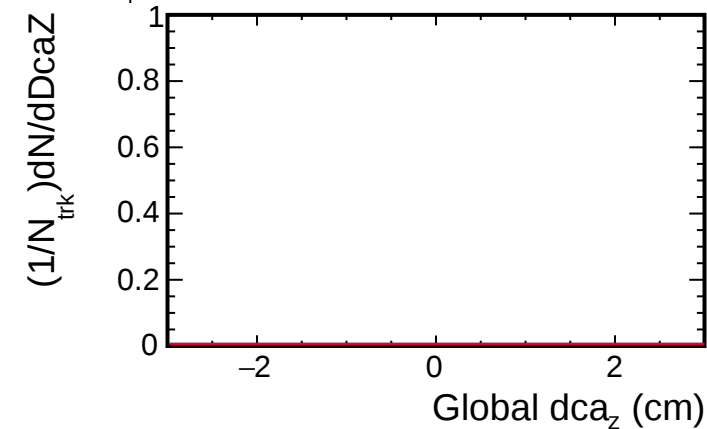
1.8, $4.5 < p_T < 5.0$ (GeV/c)



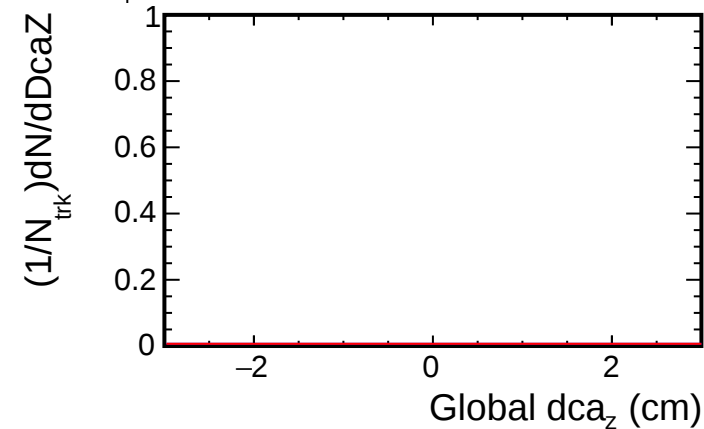
1.6, $4.5 < p_T < 5.0$ (GeV/c)



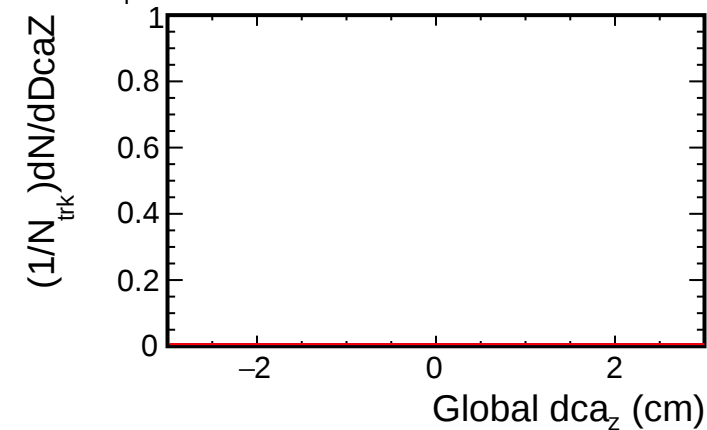
1.4, $4.5 < p_T < 5.0$ (GeV/c)



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



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

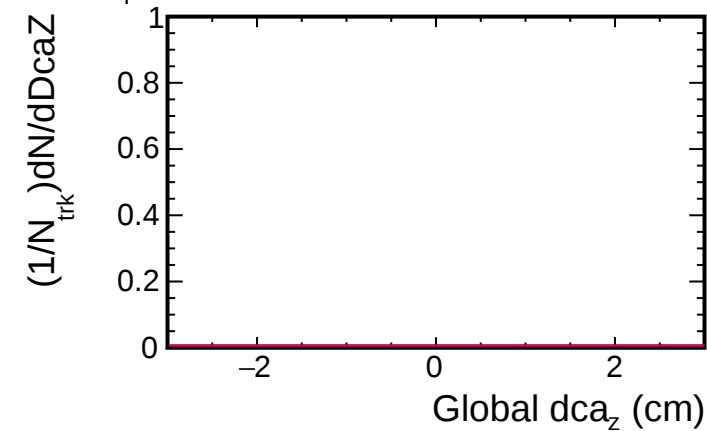


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

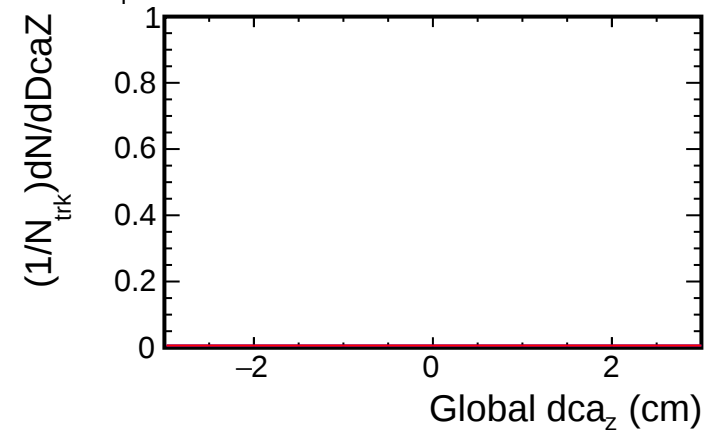
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

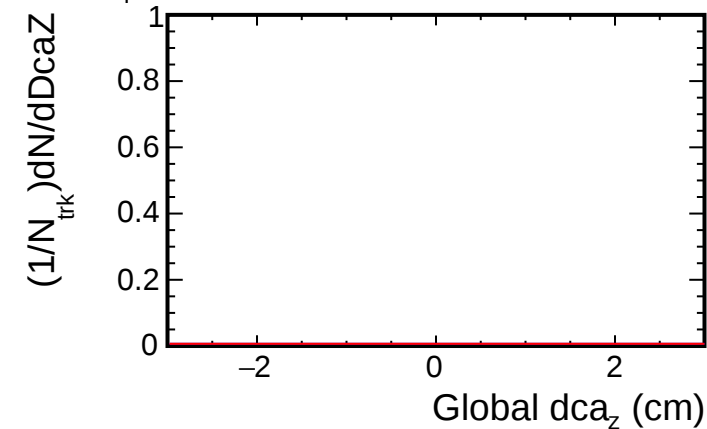
2, $4.5 < p_T < 5.0$ (GeV/c)



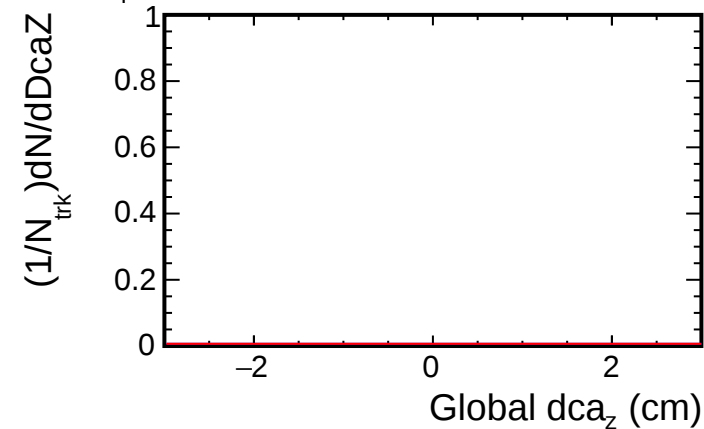
4, $4.5 < p_T < 5.0$ (GeV/c)



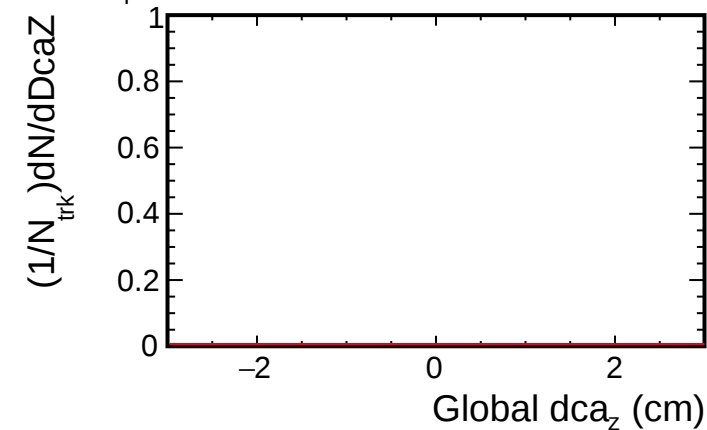
6, $4.5 < p_T < 5.0$ (GeV/c)



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



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

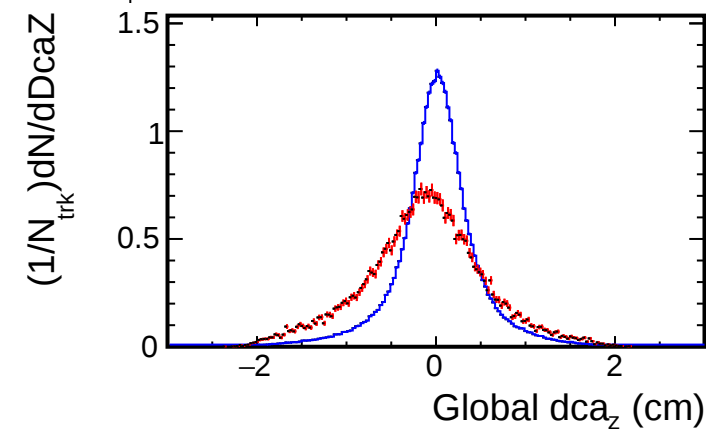


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

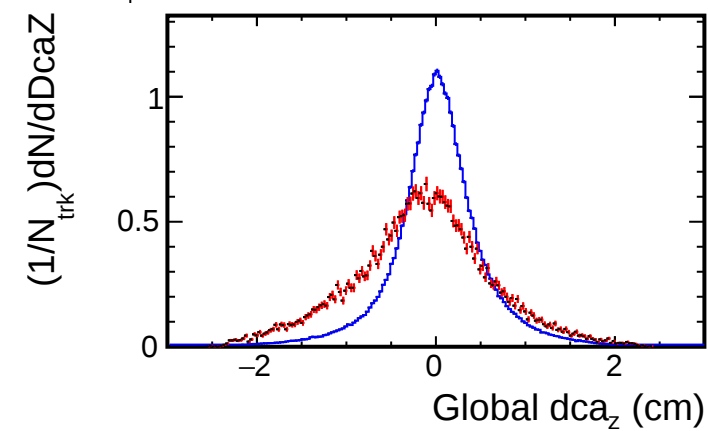
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

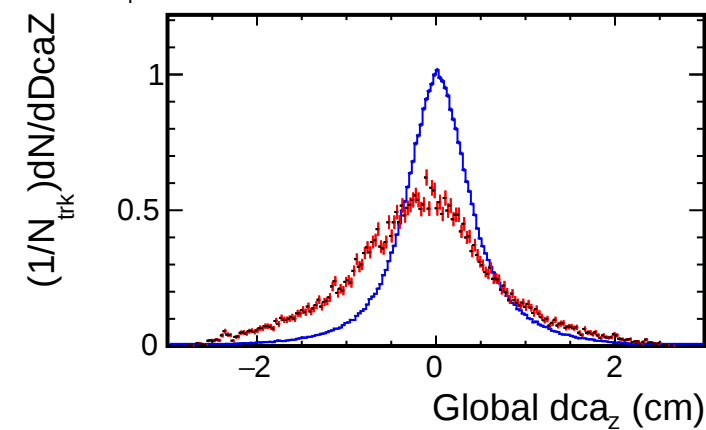
1.8, $0.1 < p_T < 0.5$ (GeV/c)



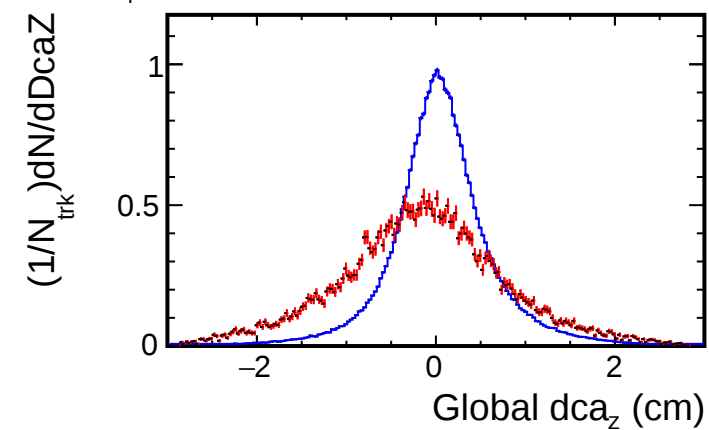
1.6, $0.1 < p_T < 0.5$ (GeV/c)



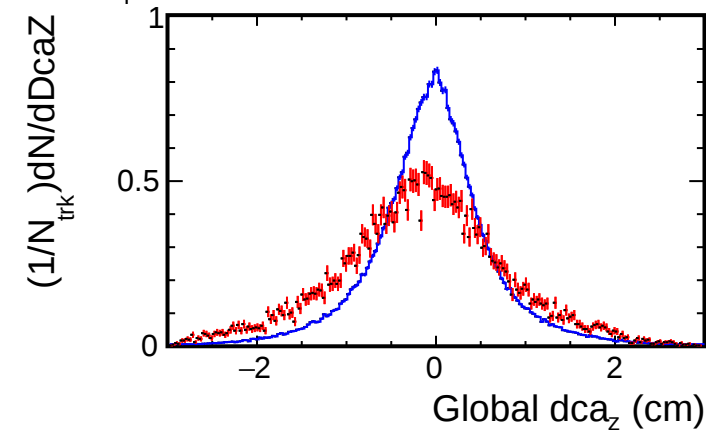
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



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

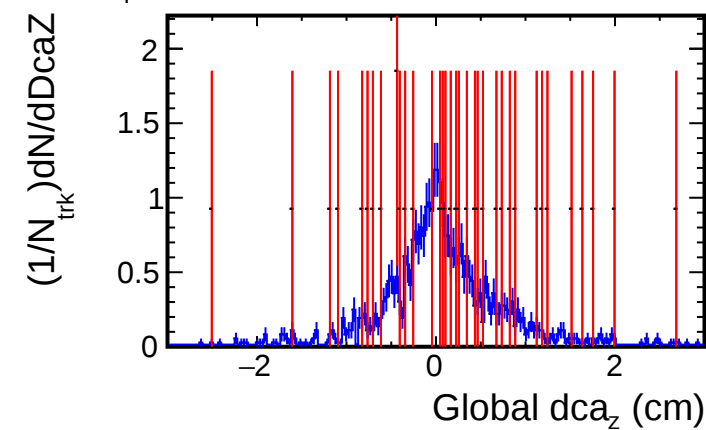


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

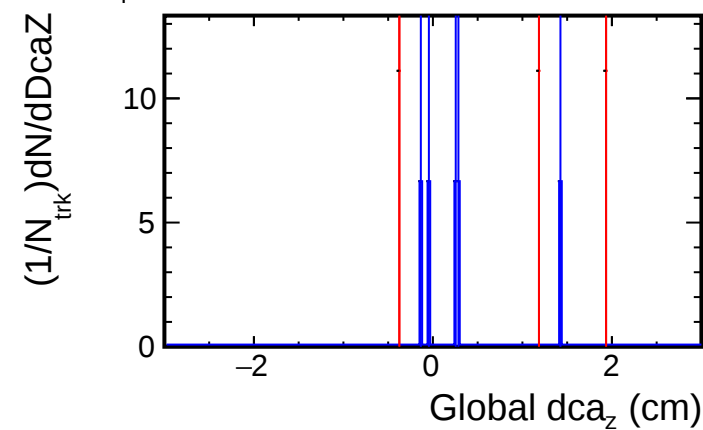
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

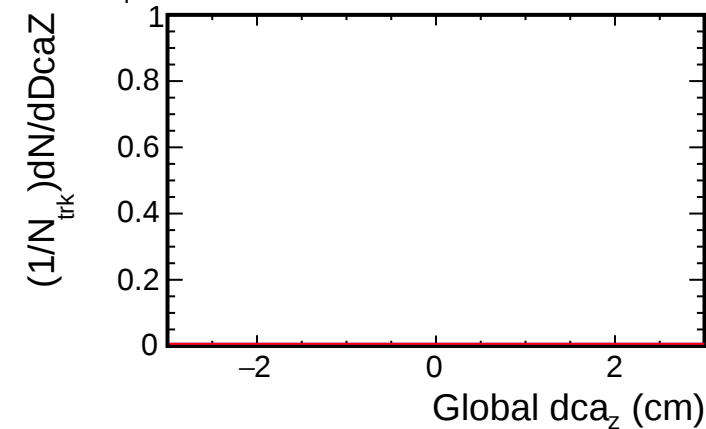
2, $0.1 < p_T < 0.5$ (GeV/c)



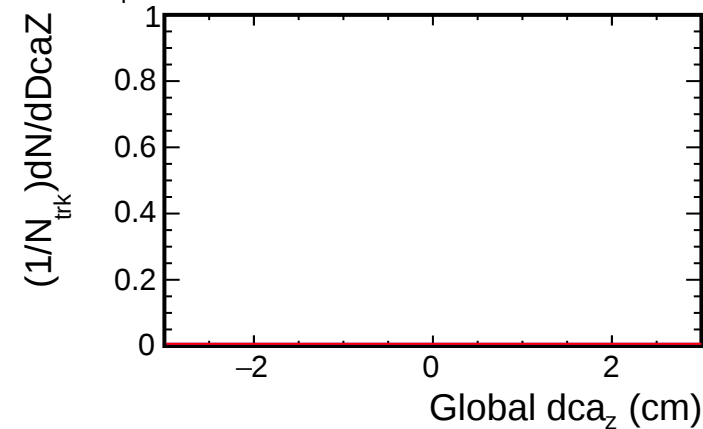
4, $0.1 < p_T < 0.5$ (GeV/c)



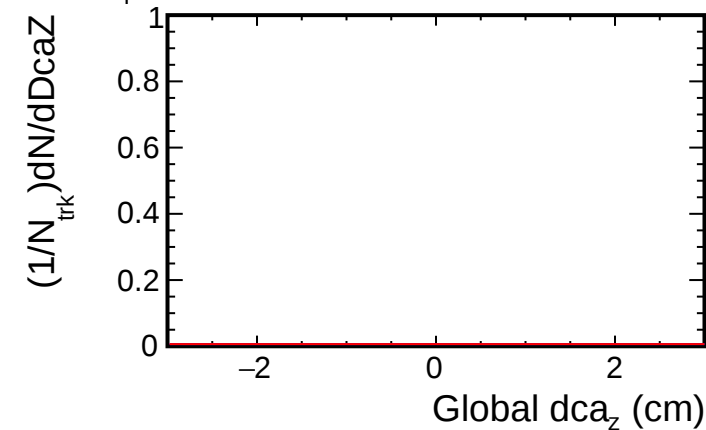
6, $0.1 < p_T < 0.5$ (GeV/c)



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



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

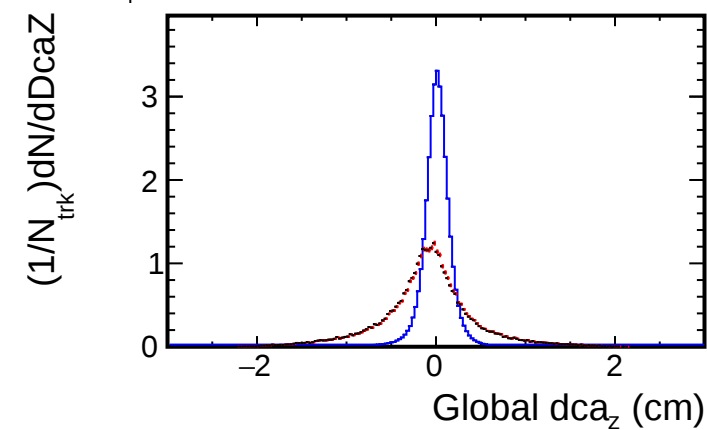


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

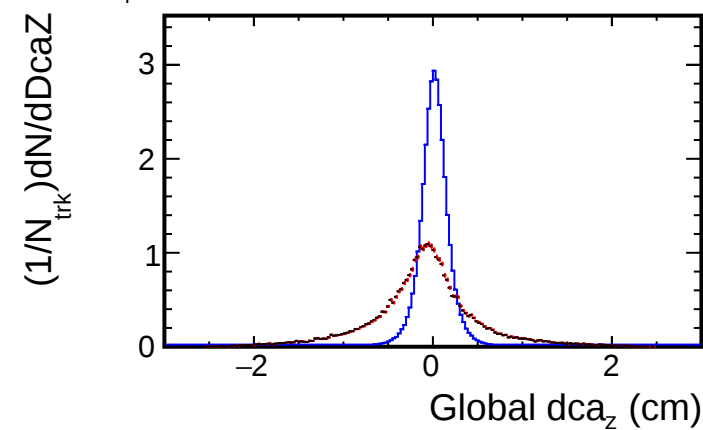
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

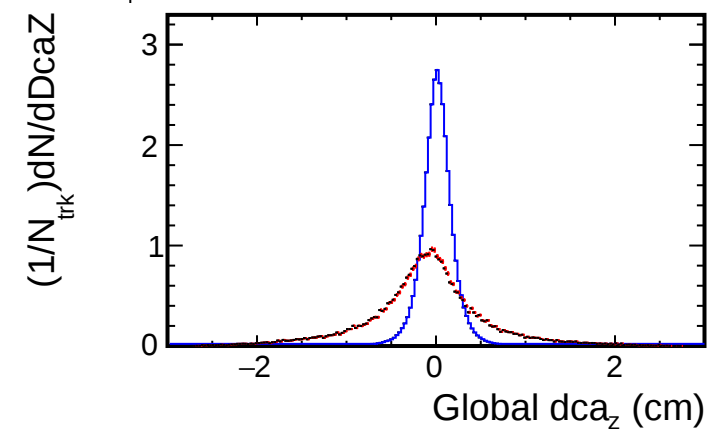
1.8, $0.5 < p_T < 1.0$ (GeV/c)



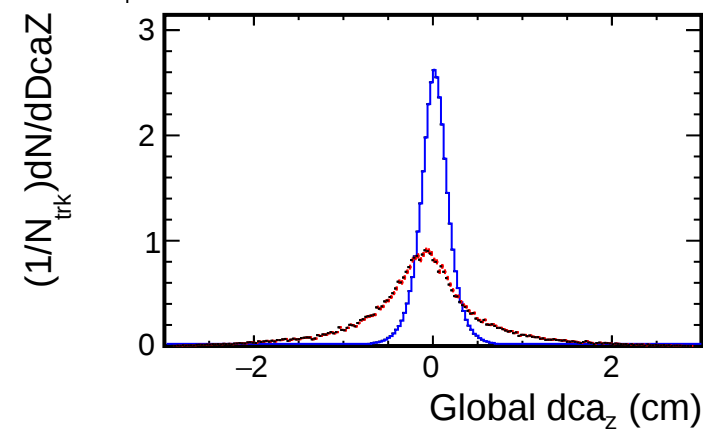
1.6, $0.5 < p_T < 1.0$ (GeV/c)



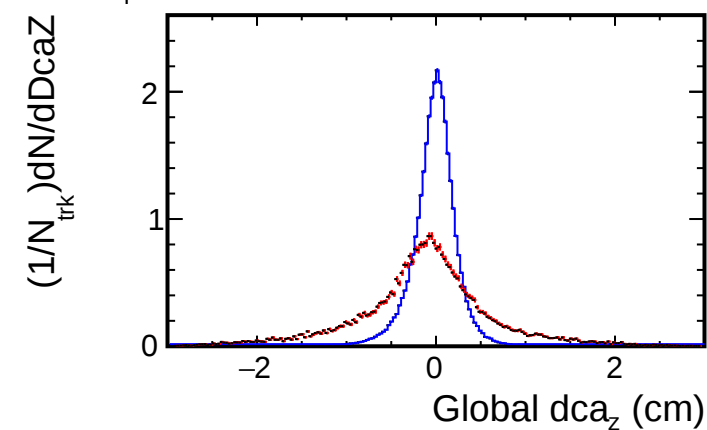
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



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

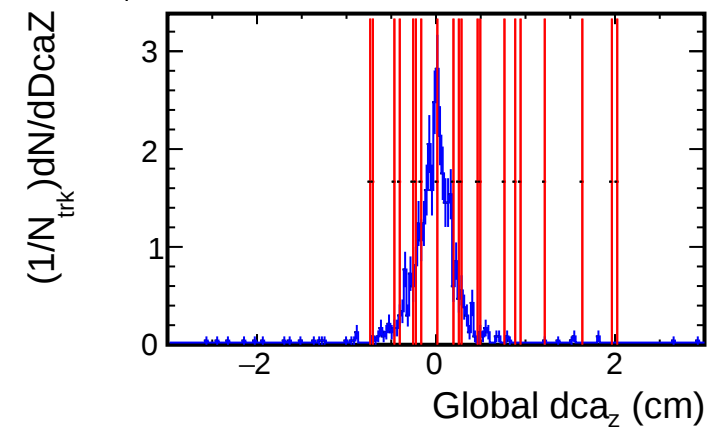


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

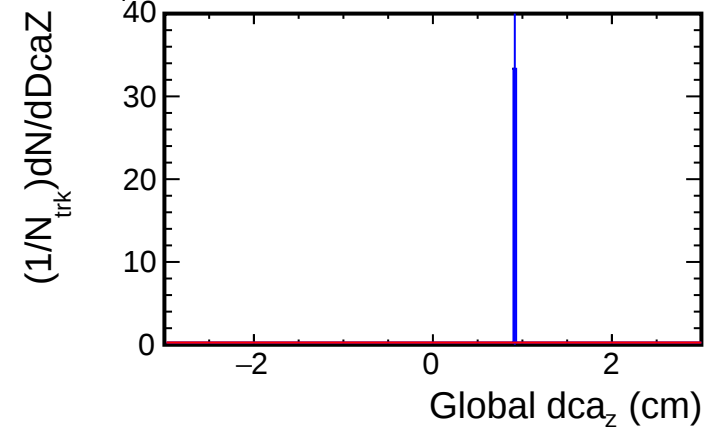
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

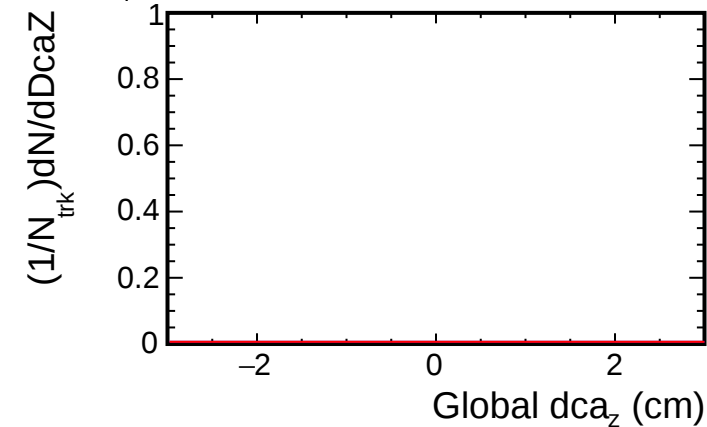
2, $0.5 < p_T < 1.0$ (GeV/c)



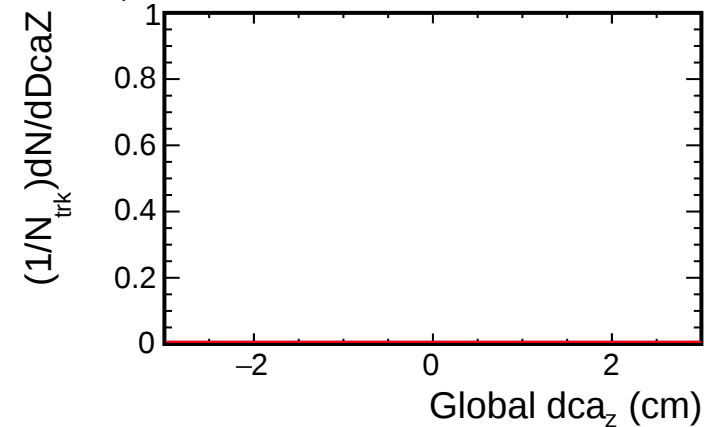
4, $0.5 < p_T < 1.0$ (GeV/c)



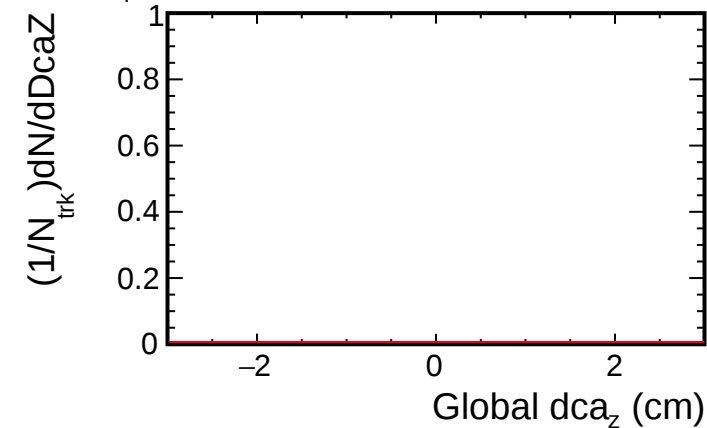
6, $0.5 < p_T < 1.0$ (GeV/c)



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



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

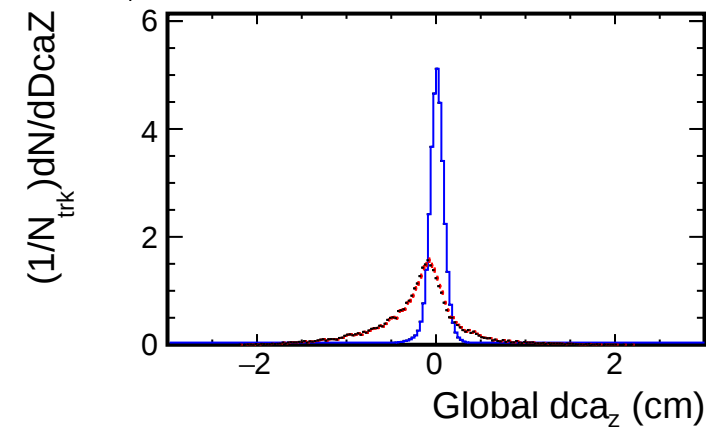


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

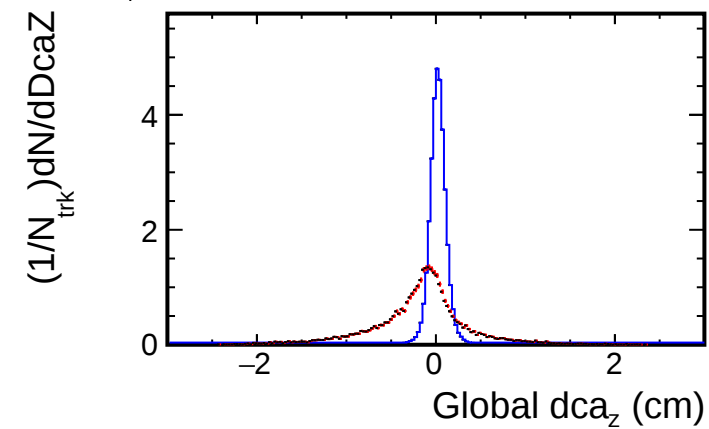
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

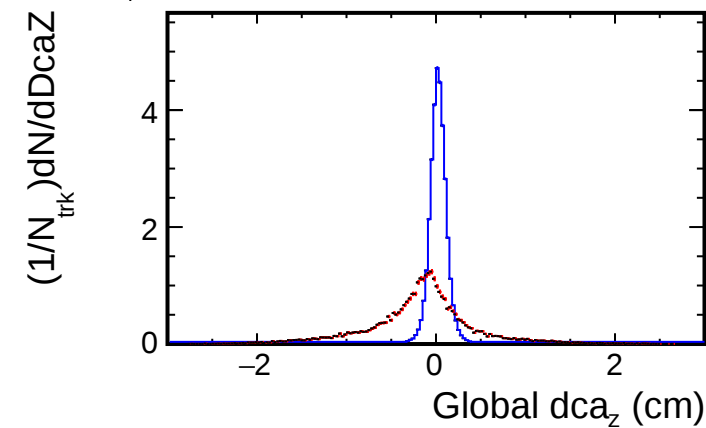
1.8, $1.0 < p_T < 1.5$ (GeV/c)



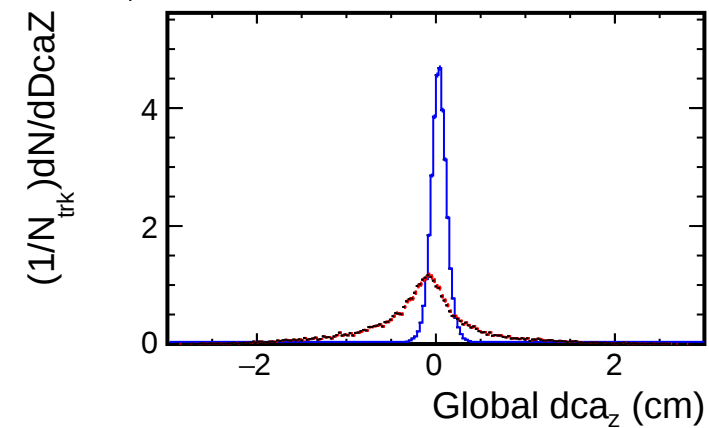
1.6, $1.0 < p_T < 1.5$ (GeV/c)



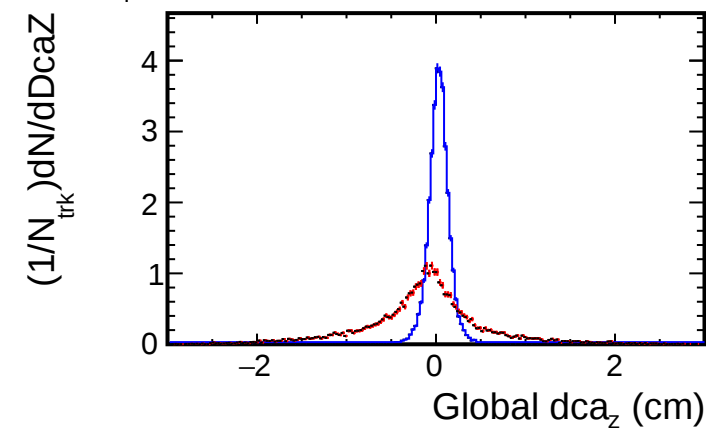
1.4, $1.0 < p_T < 1.5$ (GeV/c)



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



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

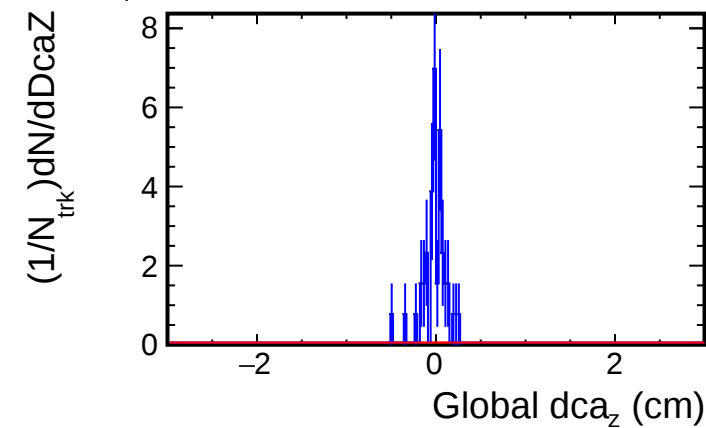


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

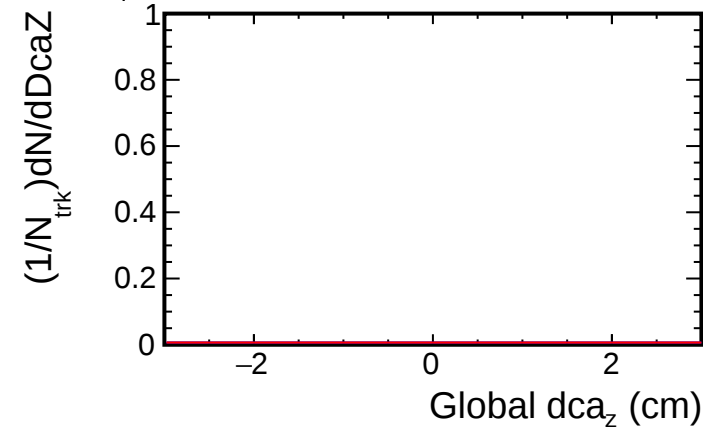
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

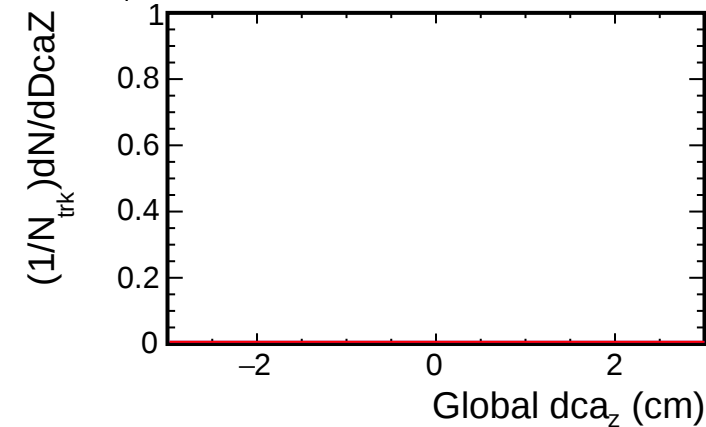
2, $1.0 < p_T < 1.5$ (GeV/c)



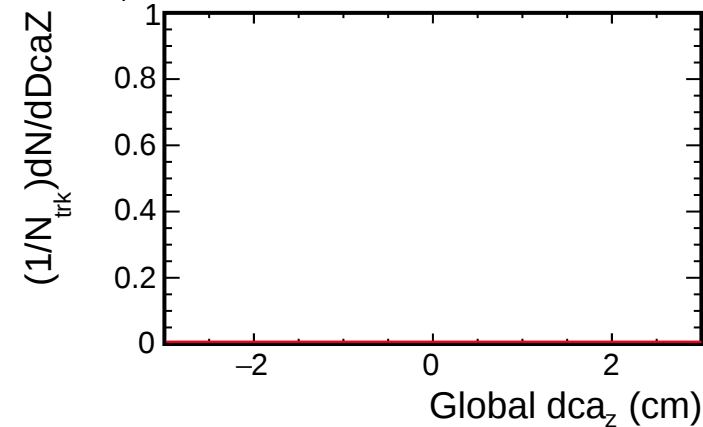
4, $1.0 < p_T < 1.5$ (GeV/c)



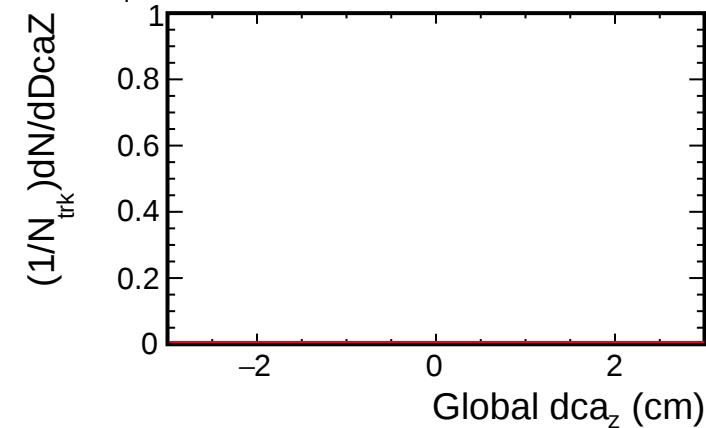
6, $1.0 < p_T < 1.5$ (GeV/c)



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



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

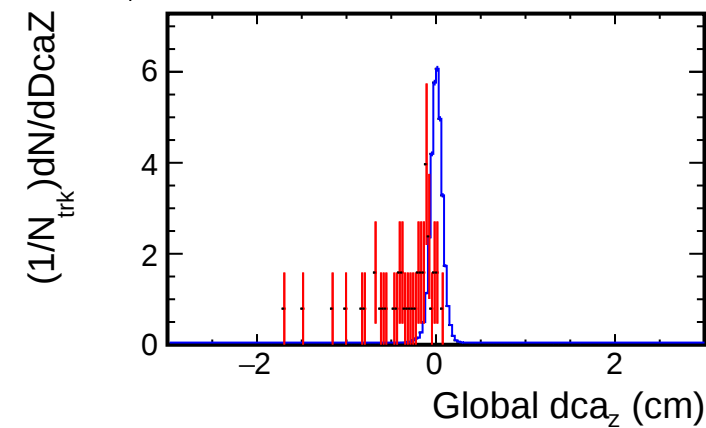


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

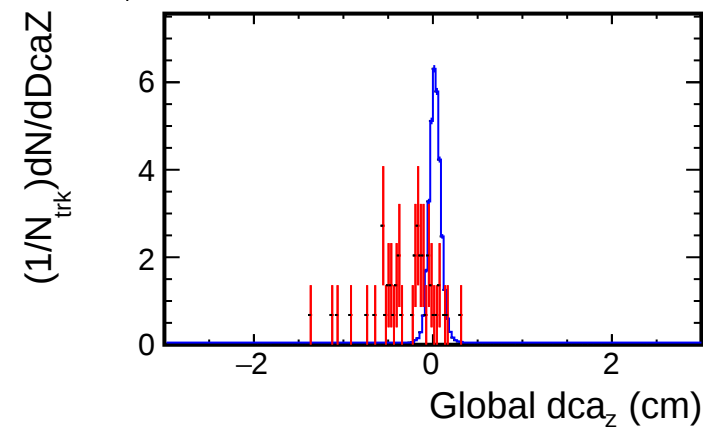
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

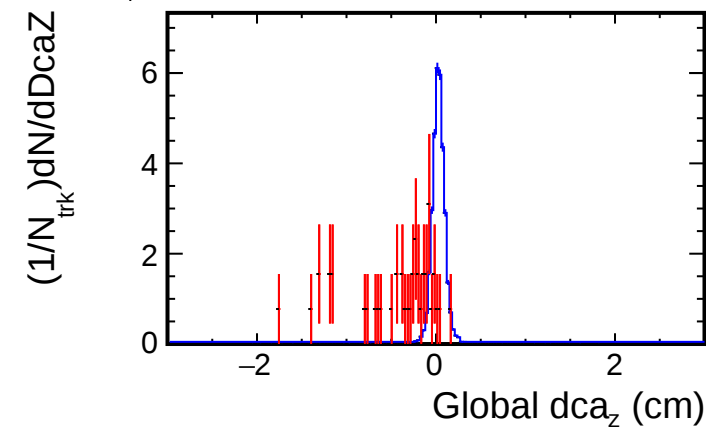
1.8, $1.5 < p_T < 2.0$ (GeV/c)



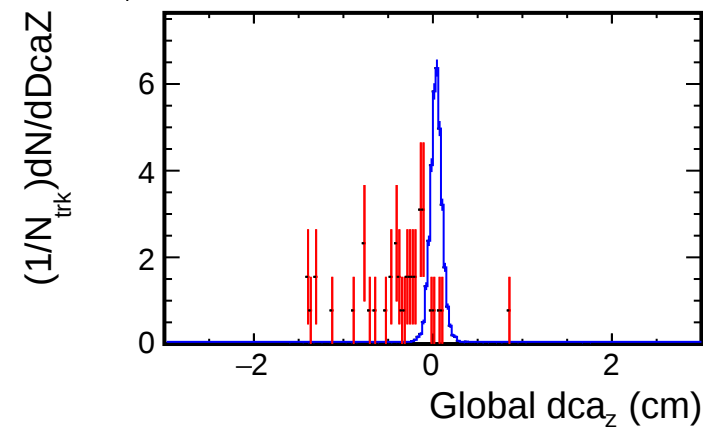
1.6, $1.5 < p_T < 2.0$ (GeV/c)



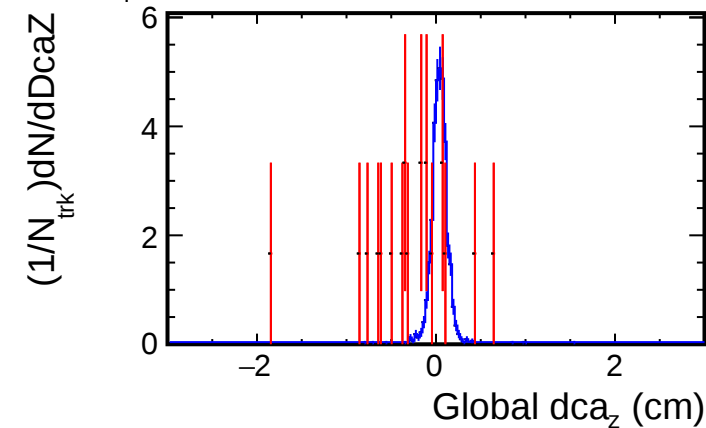
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



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

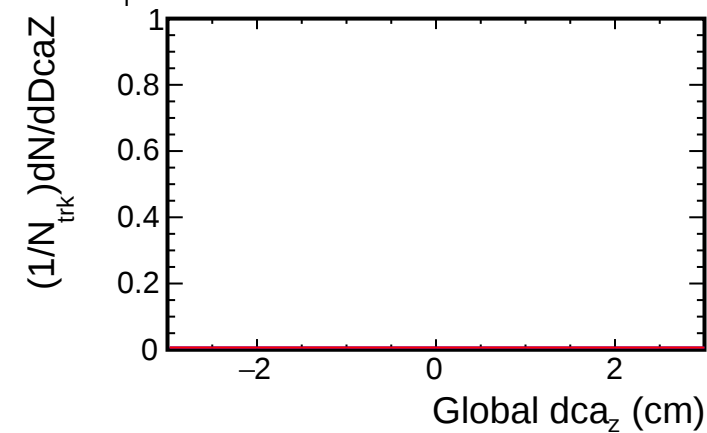


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

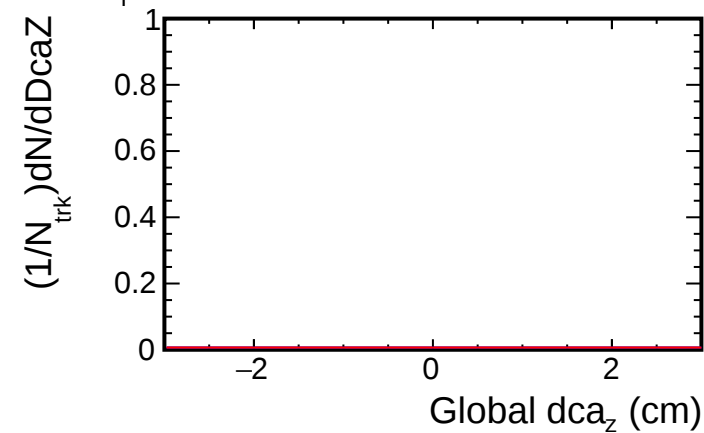
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

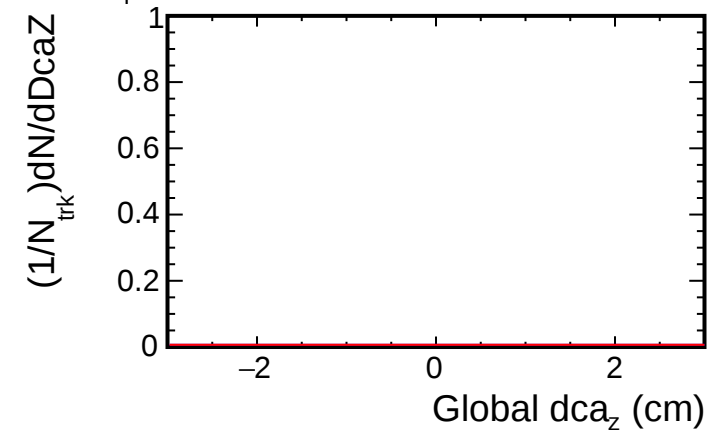
2, $1.5 < p_T < 2.0$ (GeV/c)



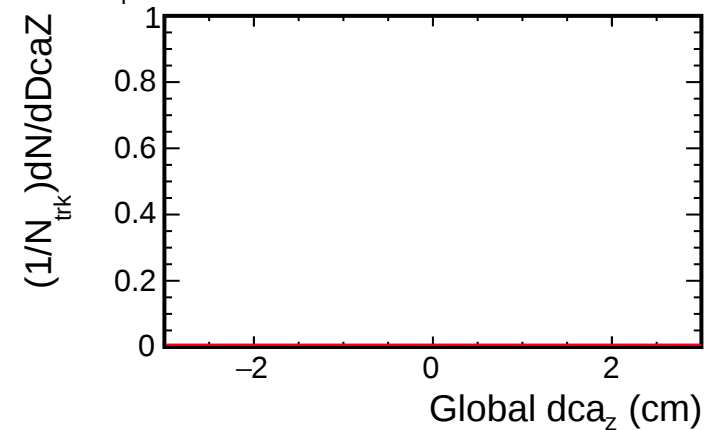
4, $1.5 < p_T < 2.0$ (GeV/c)



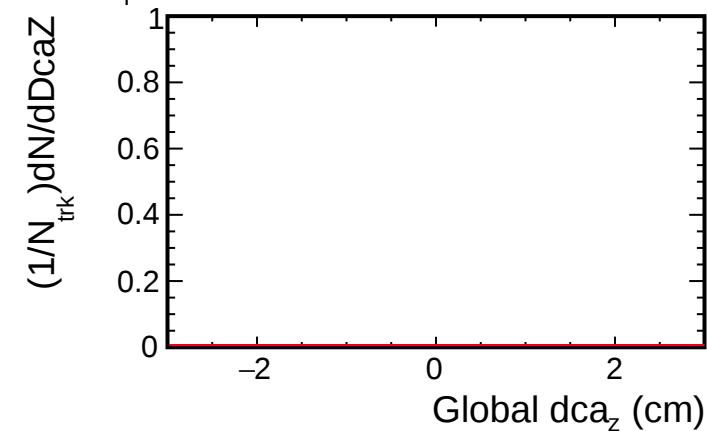
6, $1.5 < p_T < 2.0$ (GeV/c)



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



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

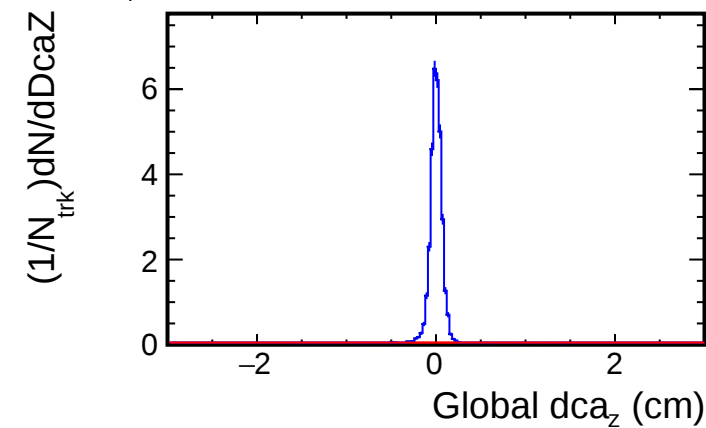


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

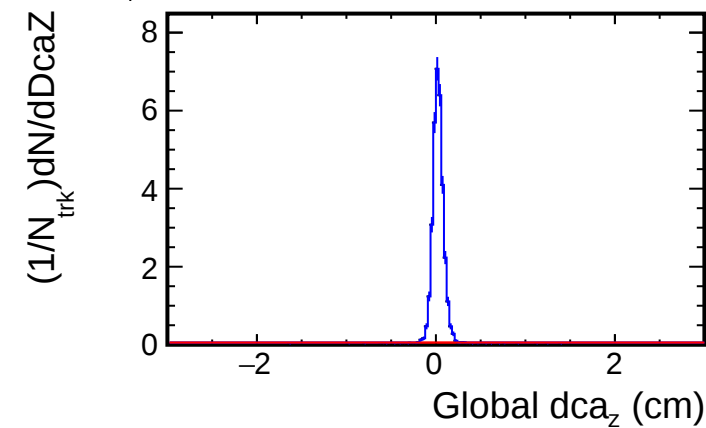
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

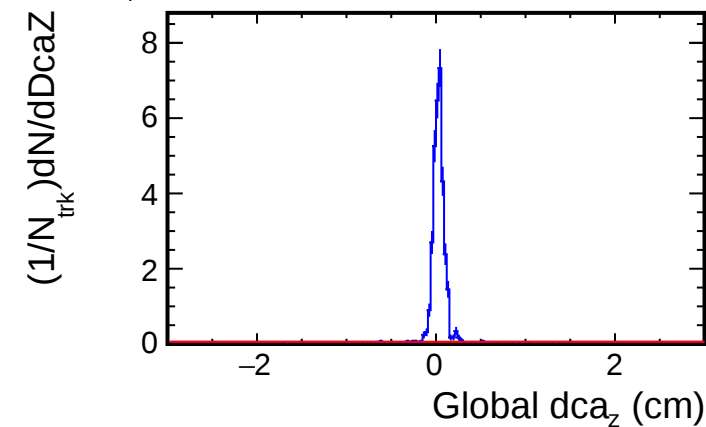
1.8, $2.0 < p_T < 2.5$ (GeV/c)



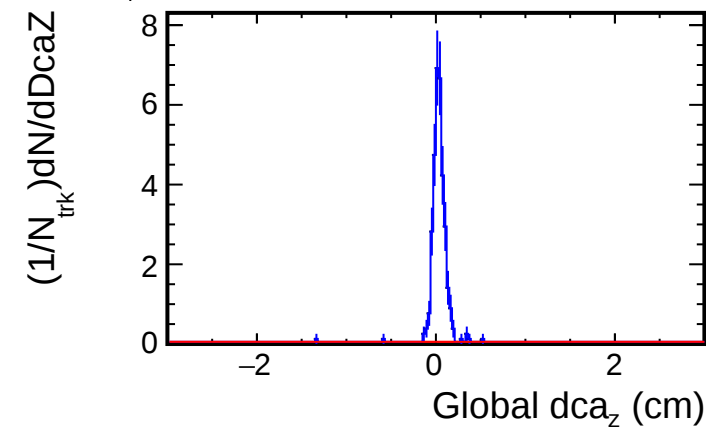
1.6, $2.0 < p_T < 2.5$ (GeV/c)



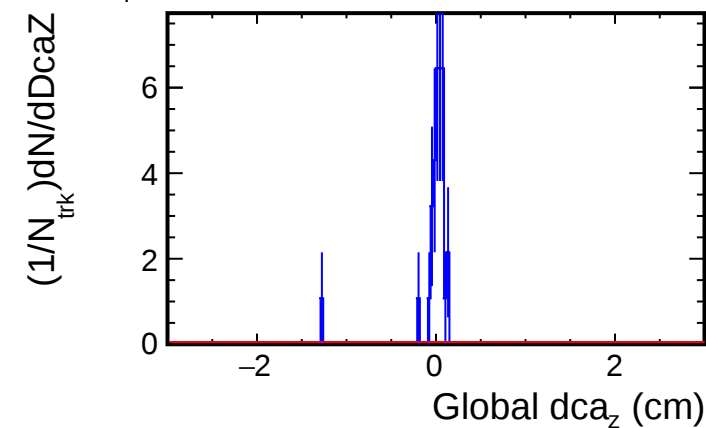
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



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

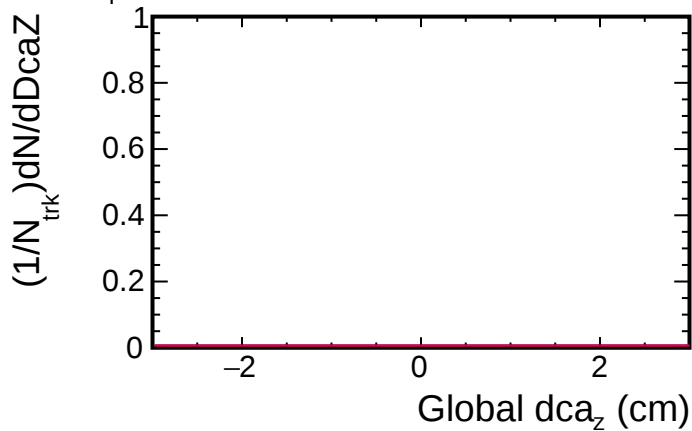


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

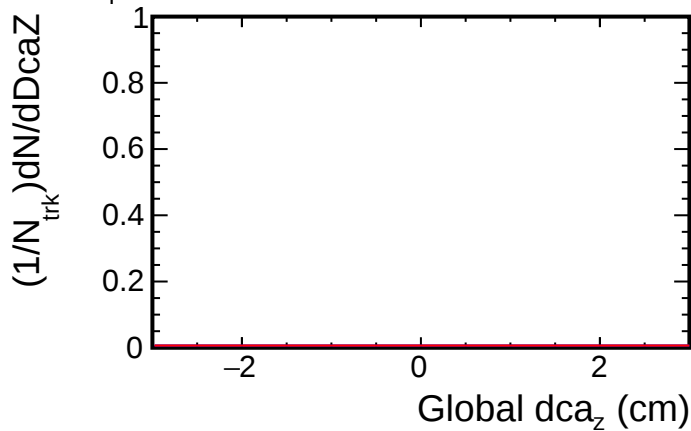
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

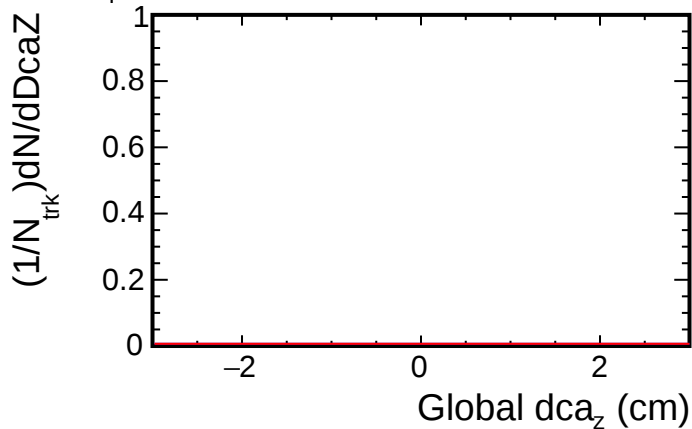
2, $2.0 < p_T < 2.5$ (GeV/c)



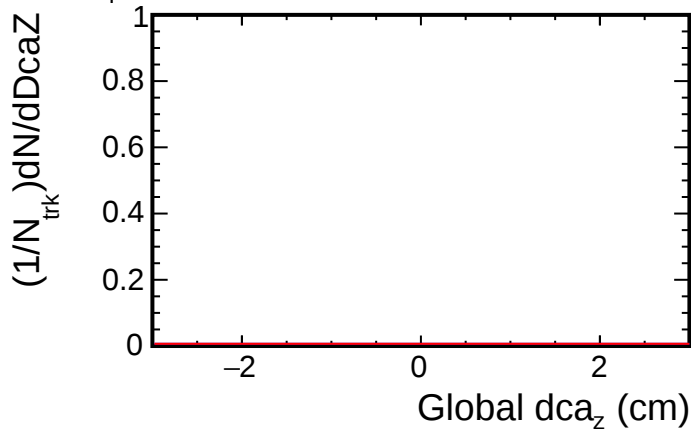
4, $2.0 < p_T < 2.5$ (GeV/c)



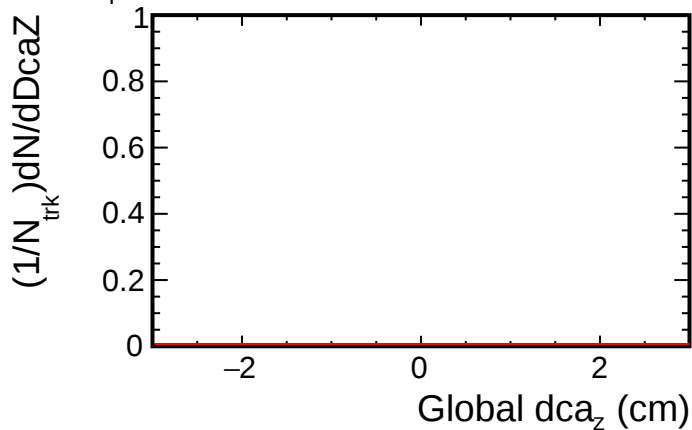
6, $2.0 < p_T < 2.5$ (GeV/c)



8, $2.0 < p_T < 2.5$ (GeV/c)



0, $2.0 < p_T < 2.5$ (GeV/c)

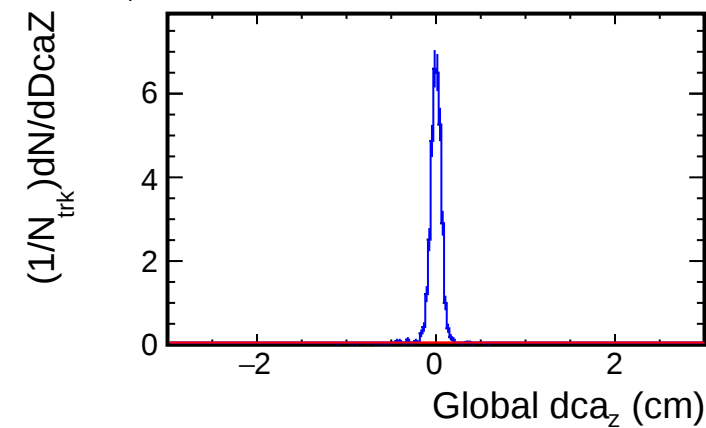


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

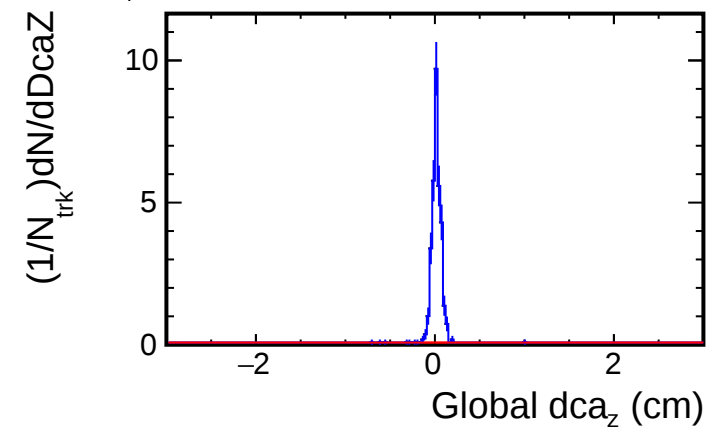
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

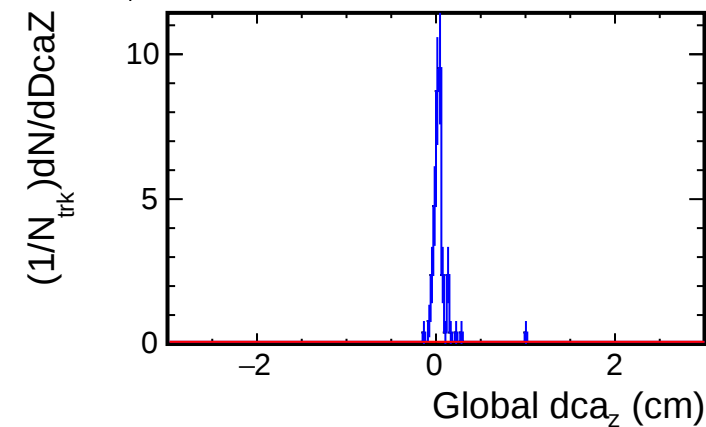
1.8, $2.5 < p_T < 3.0$ (GeV/c)



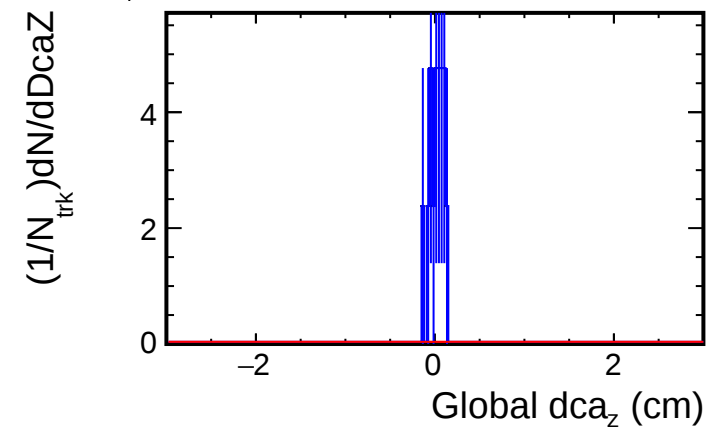
1.6, $2.5 < p_T < 3.0$ (GeV/c)



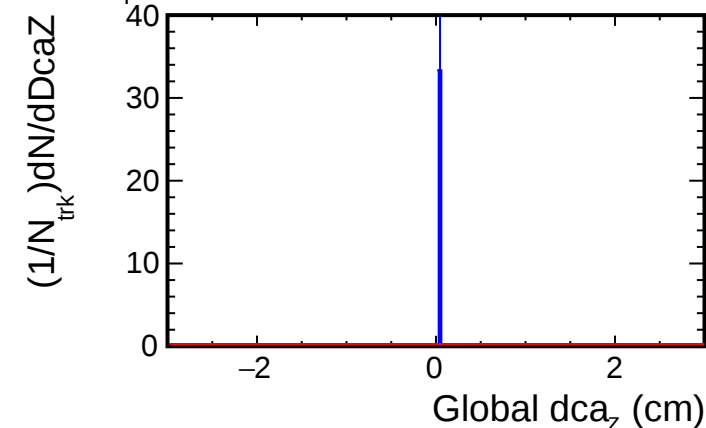
1.4, $2.5 < p_T < 3.0$ (GeV/c)



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



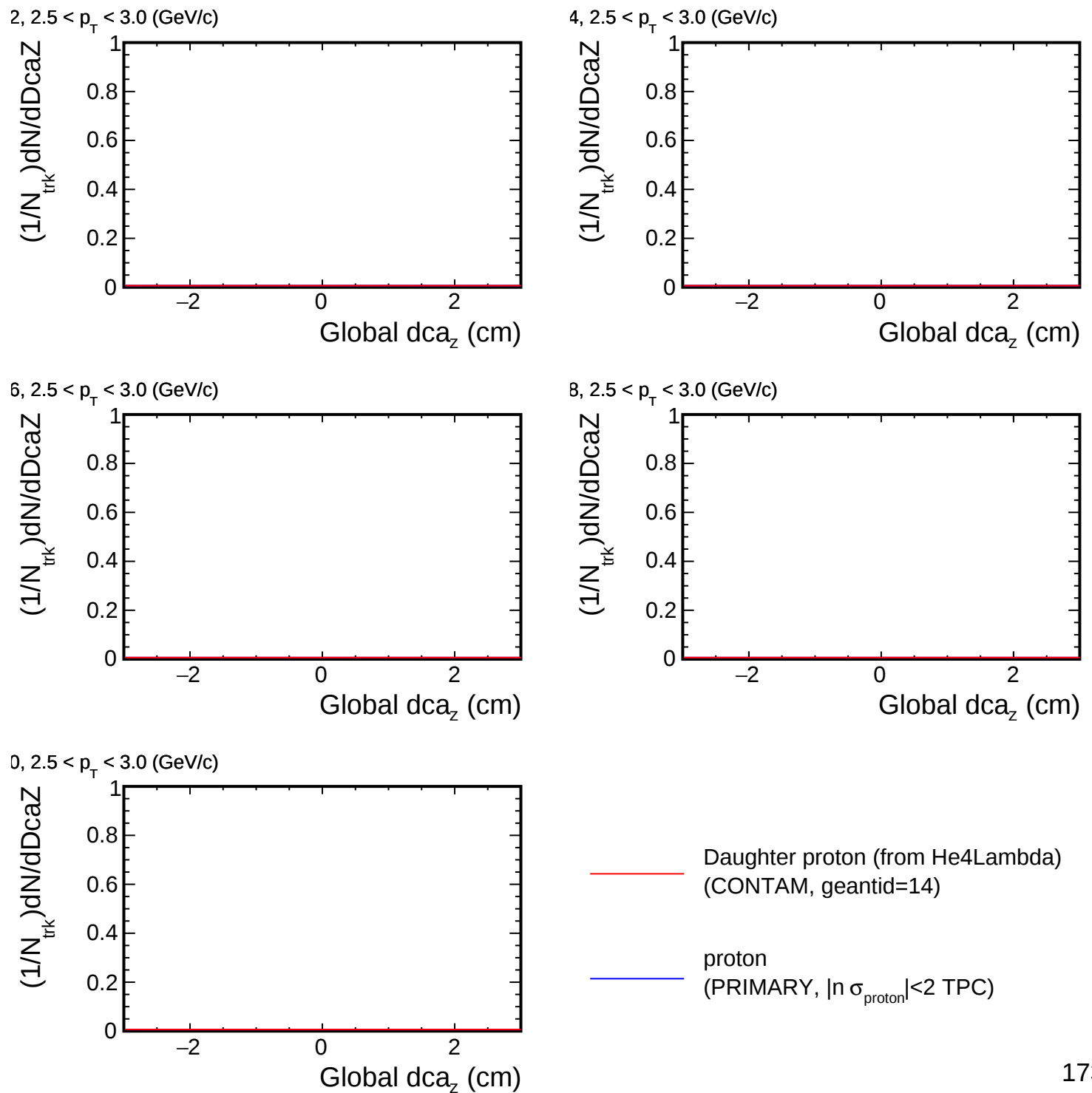
1.0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

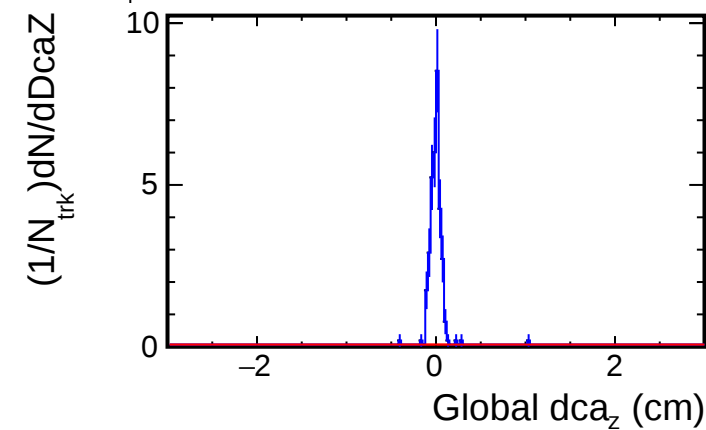
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

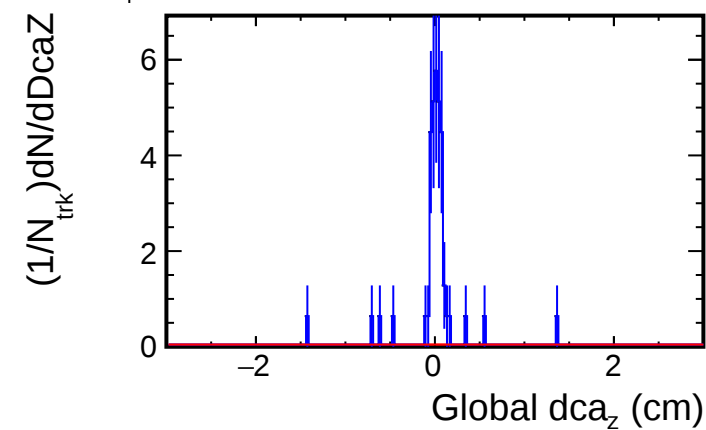


DcaZ distribution for (p_T , η) slices

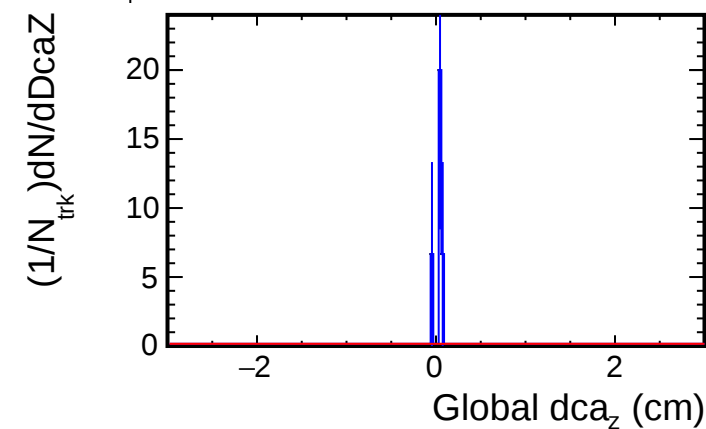
1.8, $3.0 < p_T < 3.5$ (GeV/c)



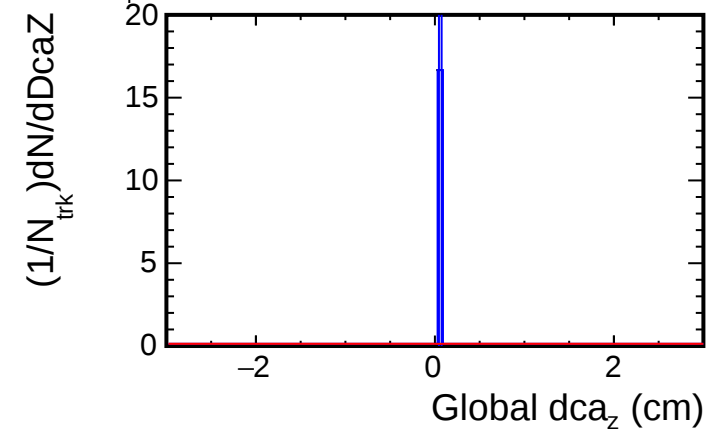
1.6, $3.0 < p_T < 3.5$ (GeV/c)



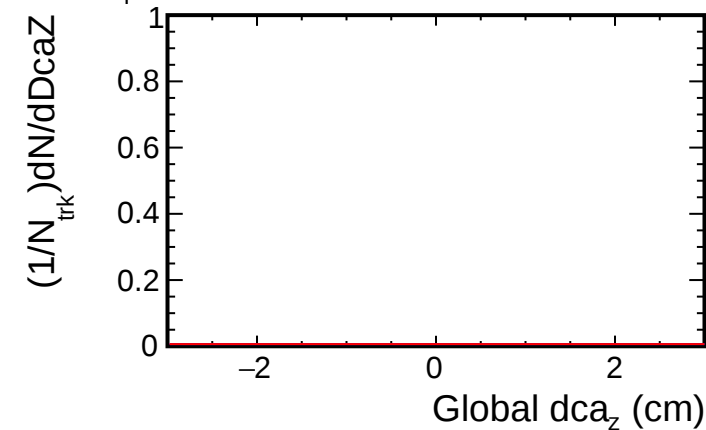
1.4, $3.0 < p_T < 3.5$ (GeV/c)



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



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

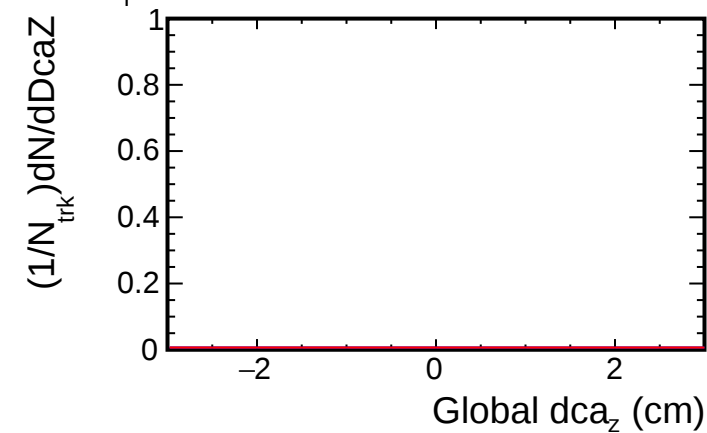


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

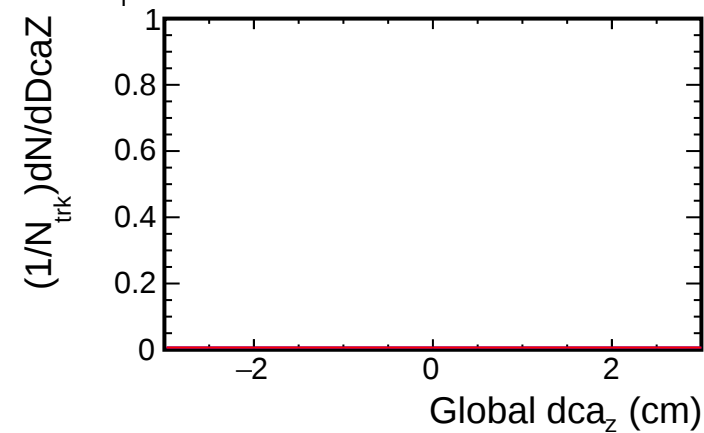
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

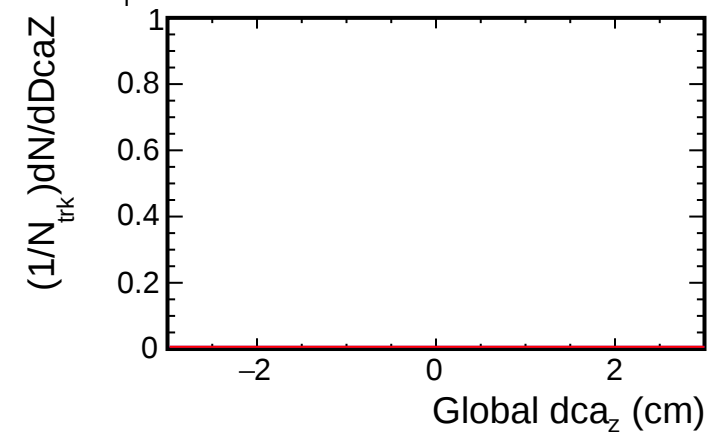
2, $3.0 < p_T < 3.5$ (GeV/c)



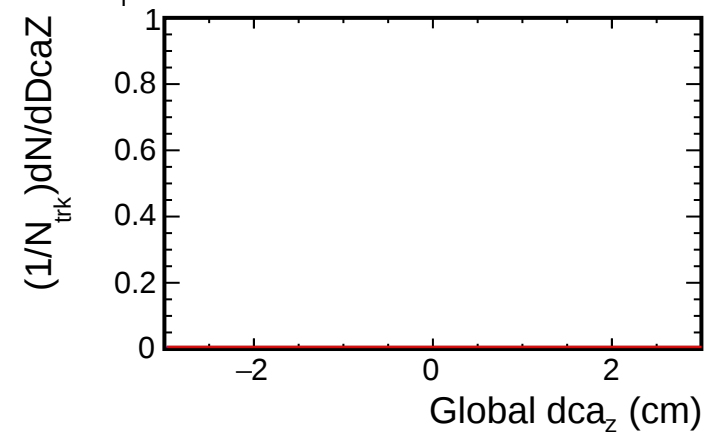
4, $3.0 < p_T < 3.5$ (GeV/c)



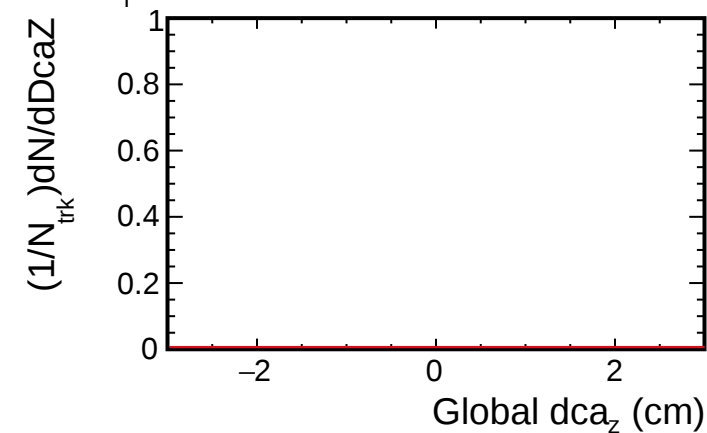
6, $3.0 < p_T < 3.5$ (GeV/c)



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



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

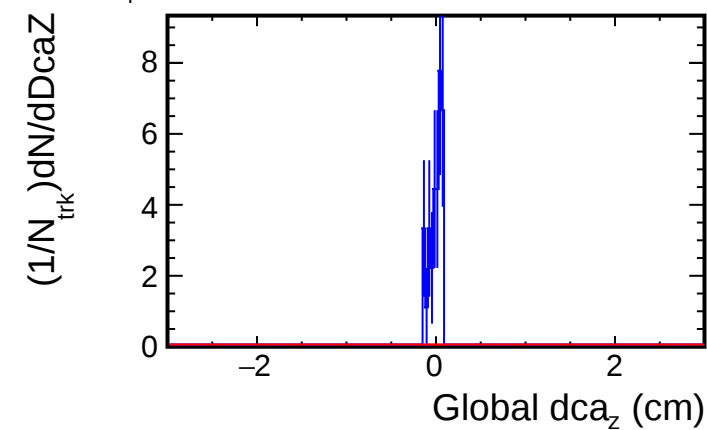


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

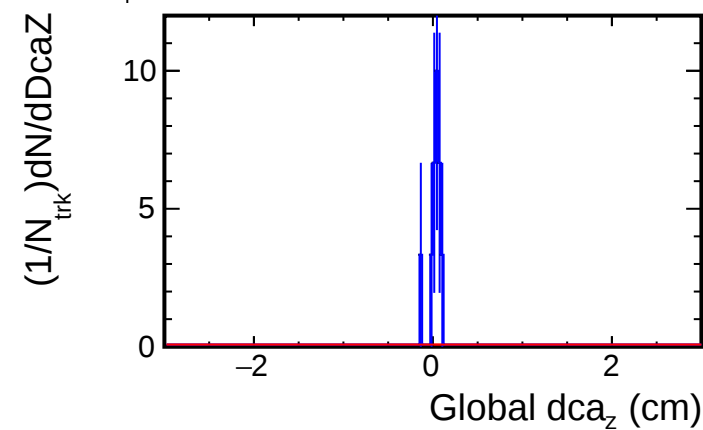
— proton
(PRIMARY, $|n \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

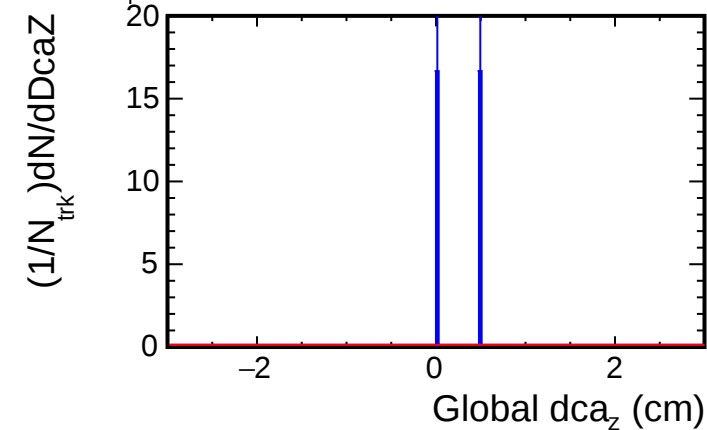
1.8, $3.5 < p_T < 4.0$ (GeV/c)



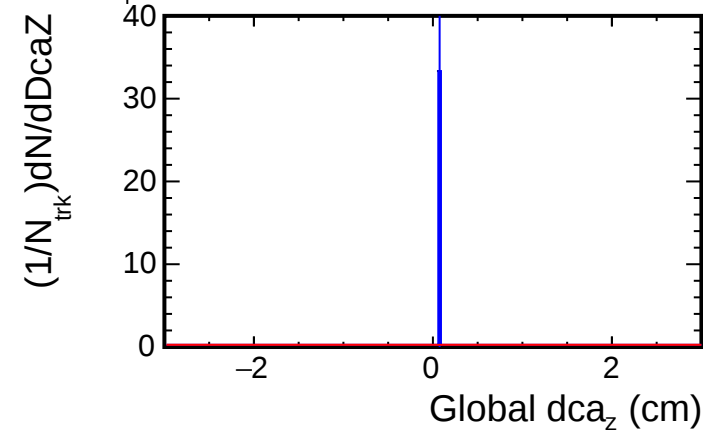
1.6, $3.5 < p_T < 4.0$ (GeV/c)



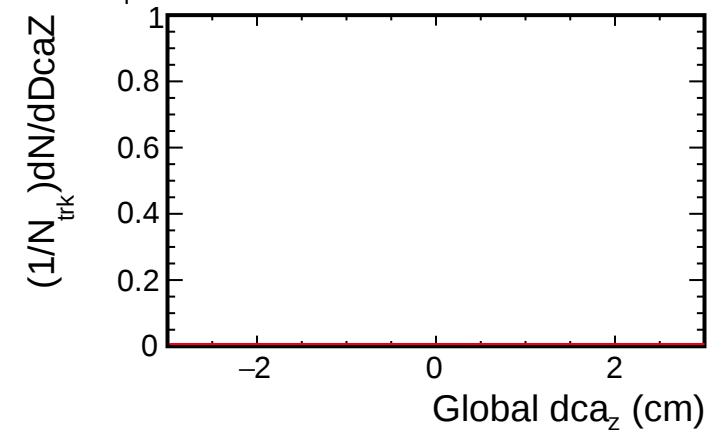
1.4, $3.5 < p_T < 4.0$ (GeV/c)



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



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

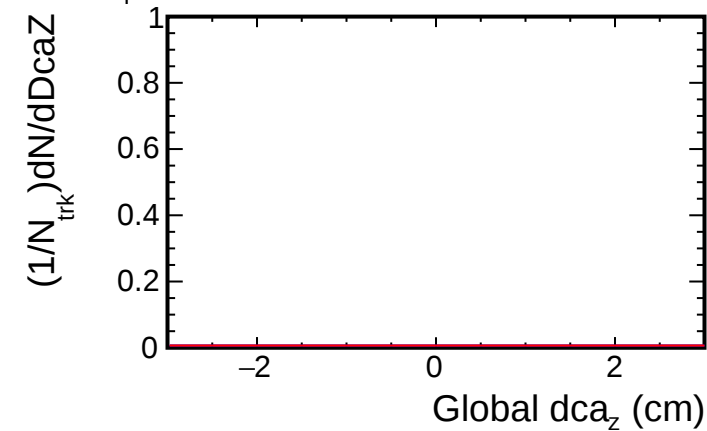


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

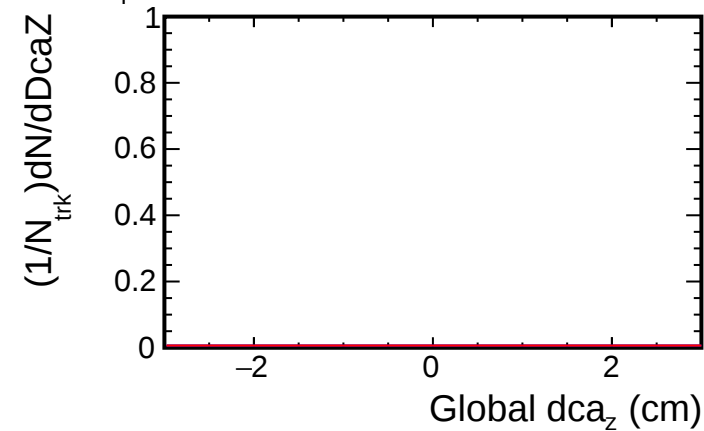
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

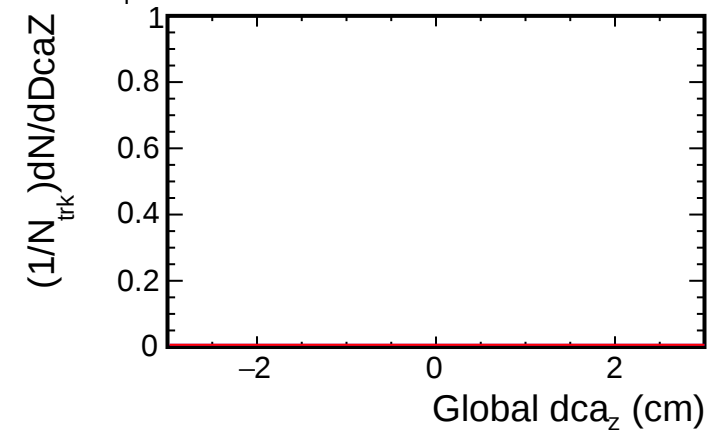
2, $3.5 < p_T < 4.0$ (GeV/c)



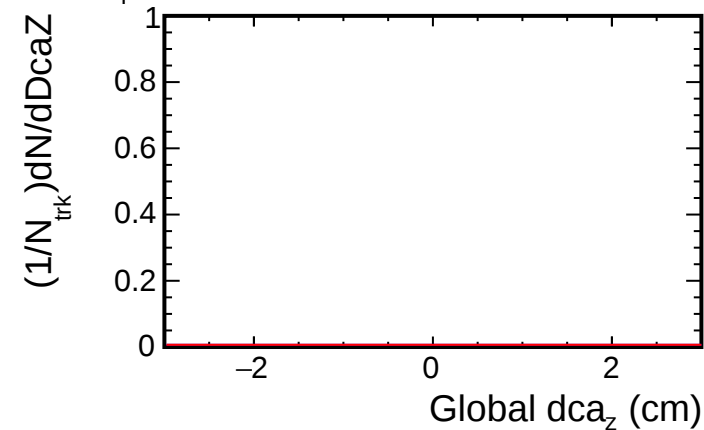
4, $3.5 < p_T < 4.0$ (GeV/c)



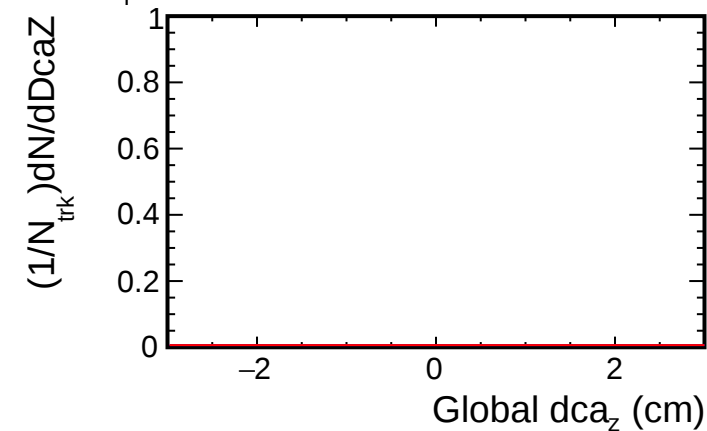
6, $3.5 < p_T < 4.0$ (GeV/c)



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



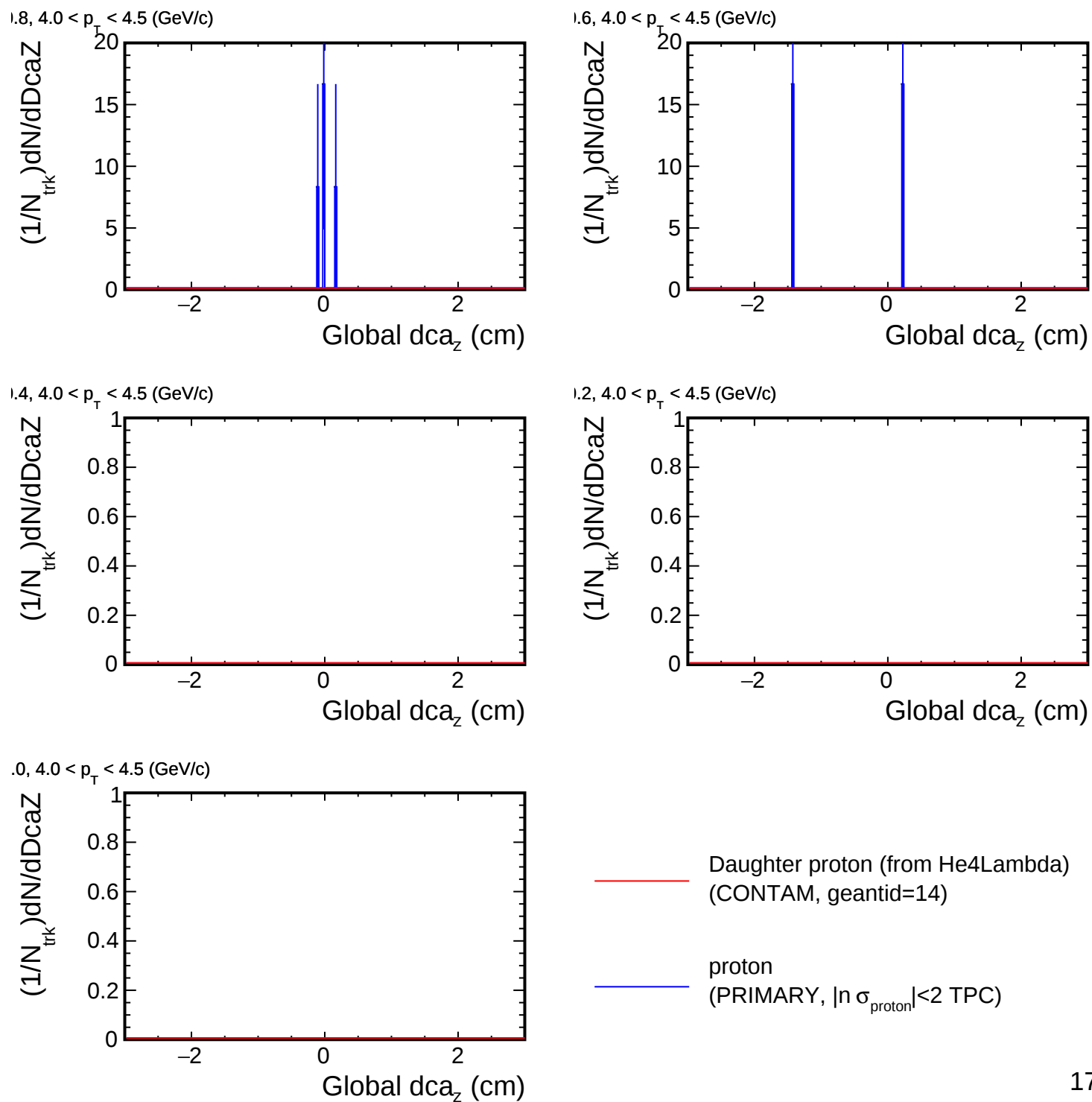
0, $3.5 < p_T < 4.0$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

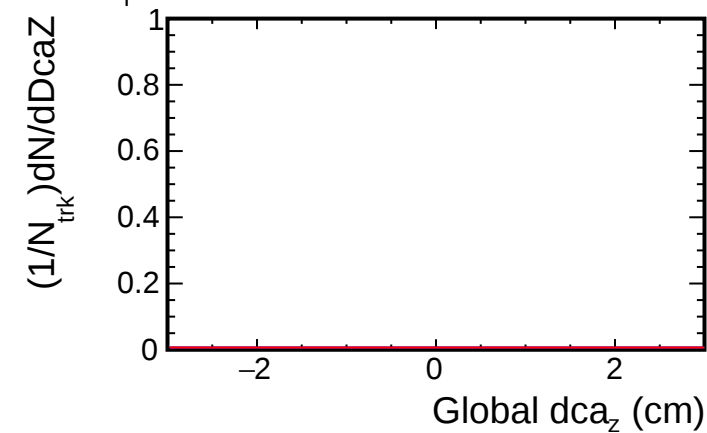
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

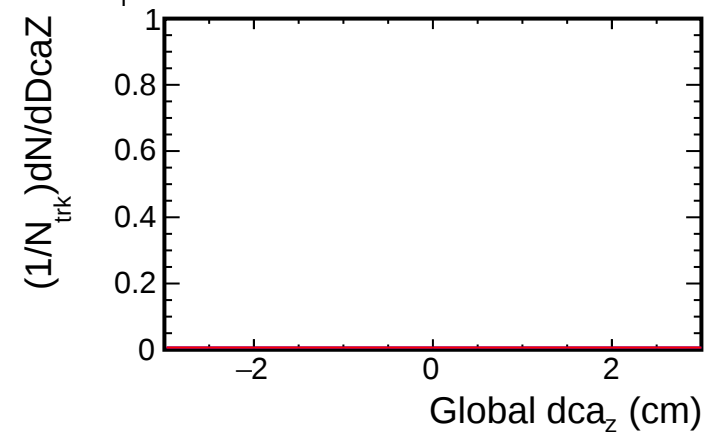


DcaZ distribution for (p_T , η) slices

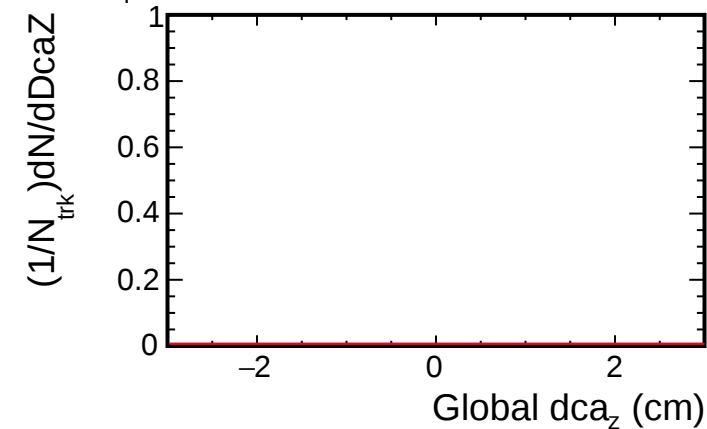
2, $4.0 < p_T < 4.5$ (GeV/c)



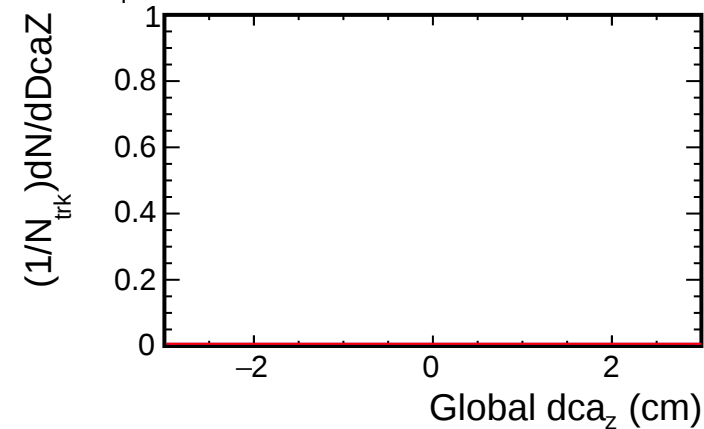
4, $4.0 < p_T < 4.5$ (GeV/c)



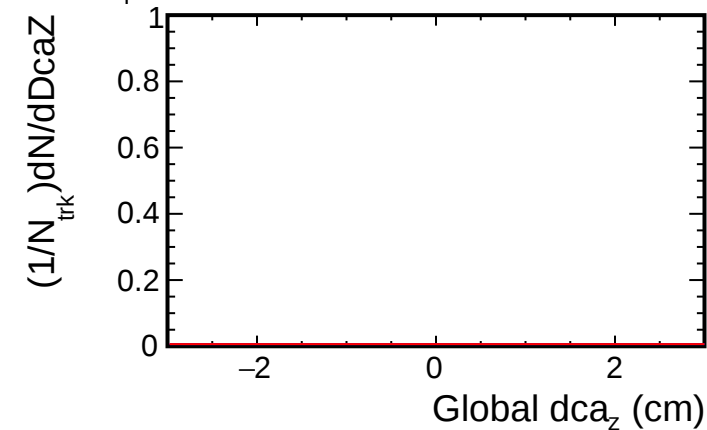
6, $4.0 < p_T < 4.5$ (GeV/c)



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



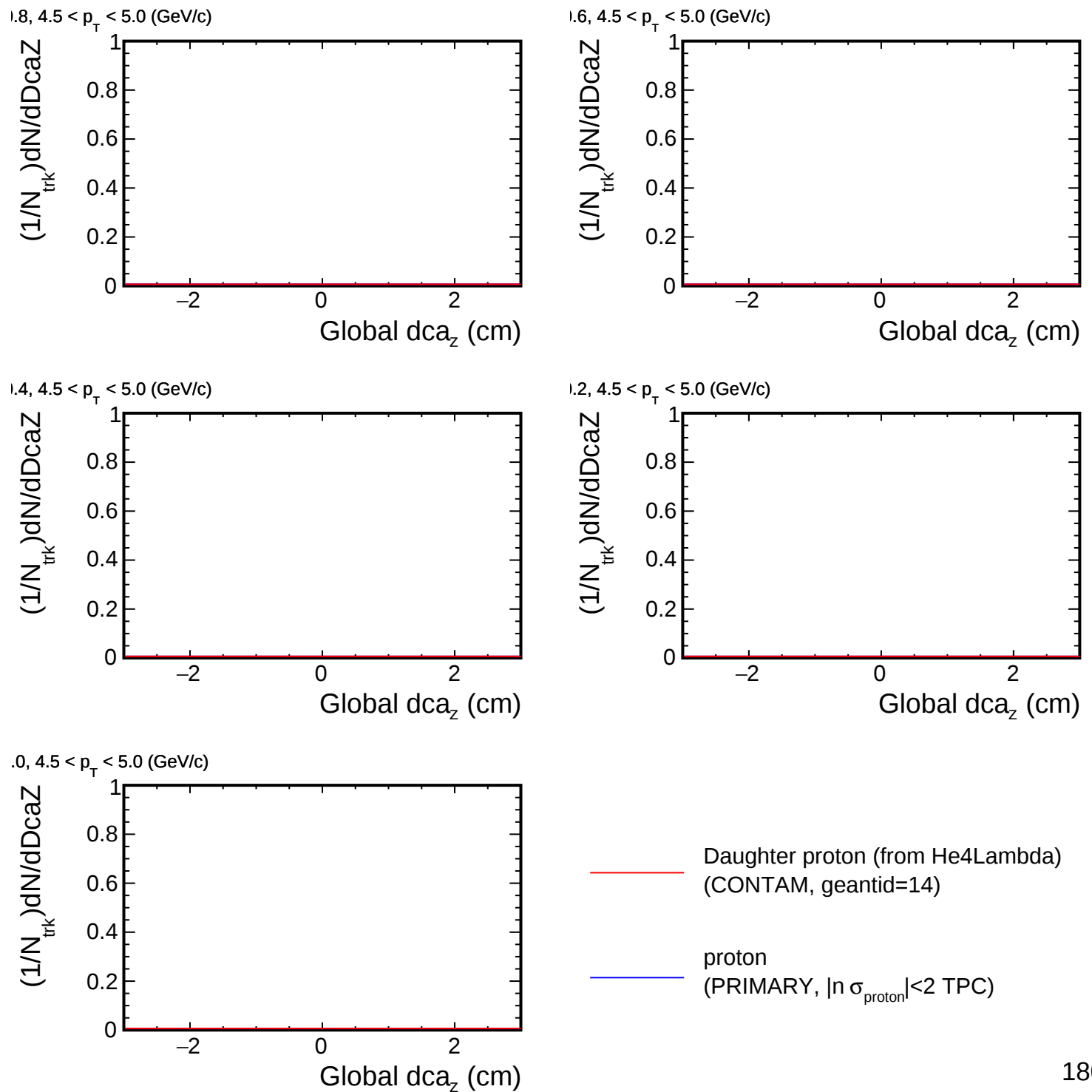
0, $4.0 < p_T < 4.5$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

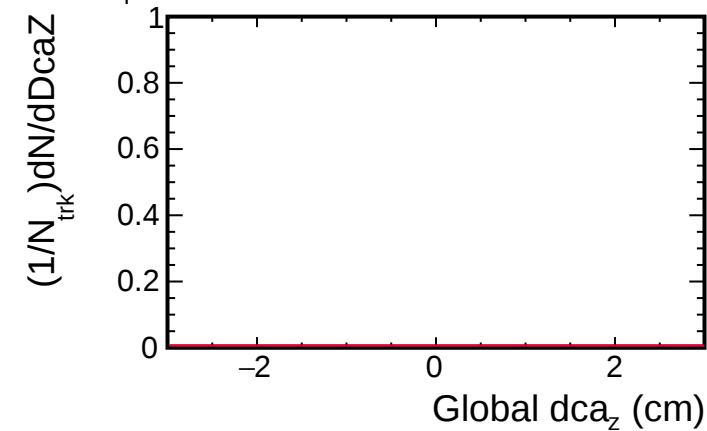
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

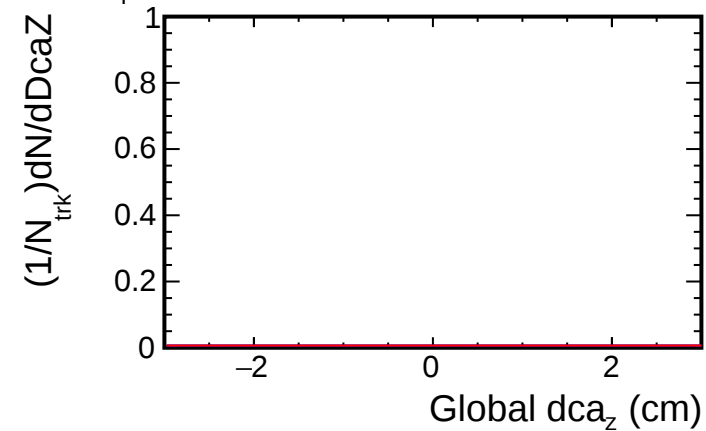


DcaZ distribution for (p_T , η) slices

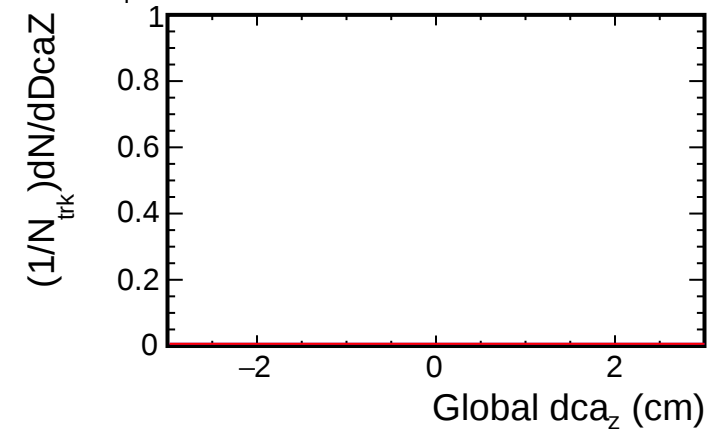
2, $4.5 < p_T < 5.0$ (GeV/c)



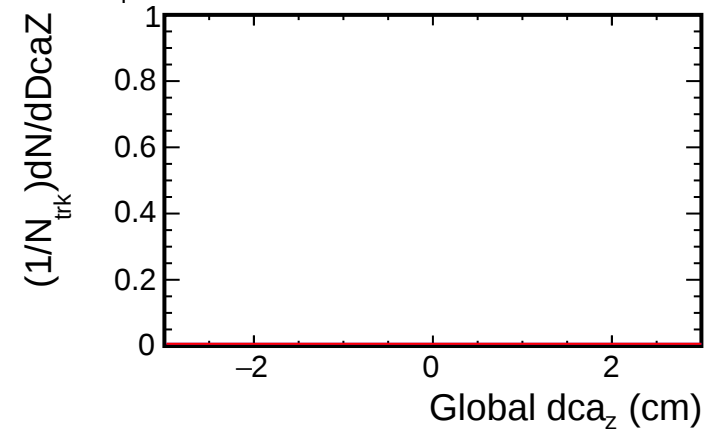
4, $4.5 < p_T < 5.0$ (GeV/c)



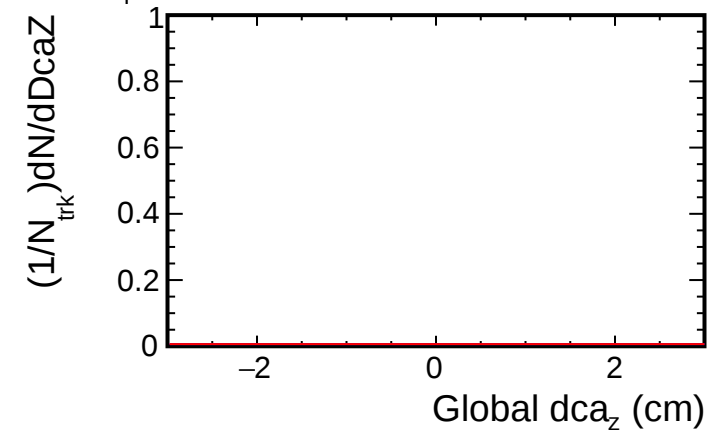
6, $4.5 < p_T < 5.0$ (GeV/c)



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



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

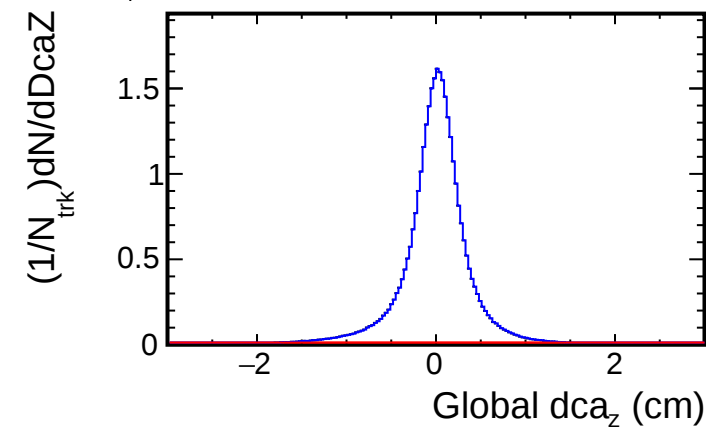


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

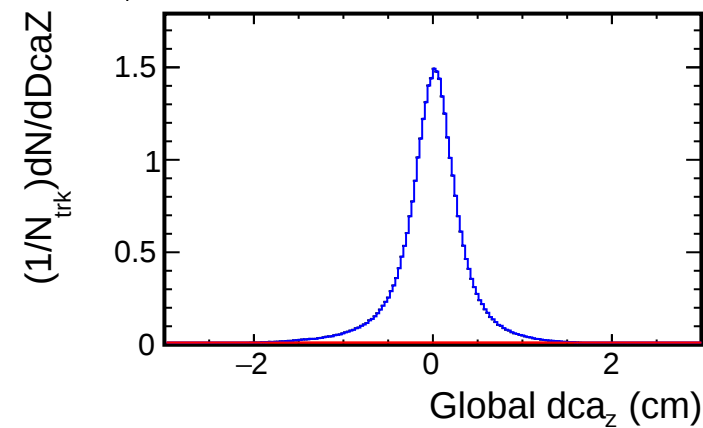
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

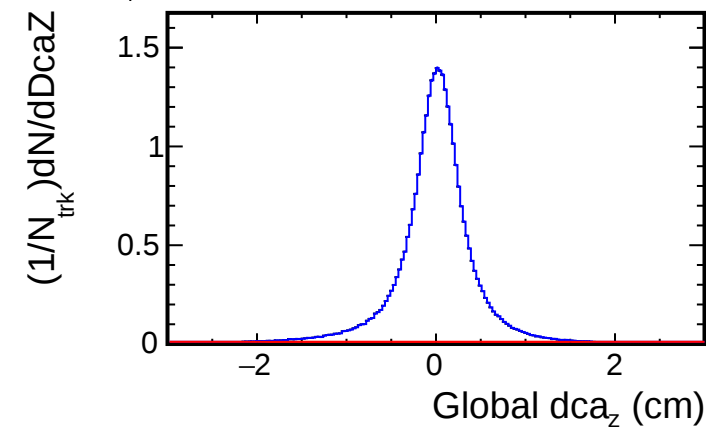
1.8, $0.1 < p_T < 0.5$ (GeV/c)



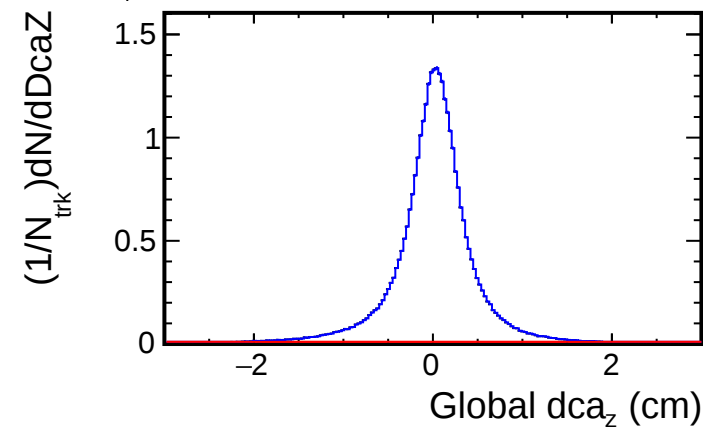
1.6, $0.1 < p_T < 0.5$ (GeV/c)



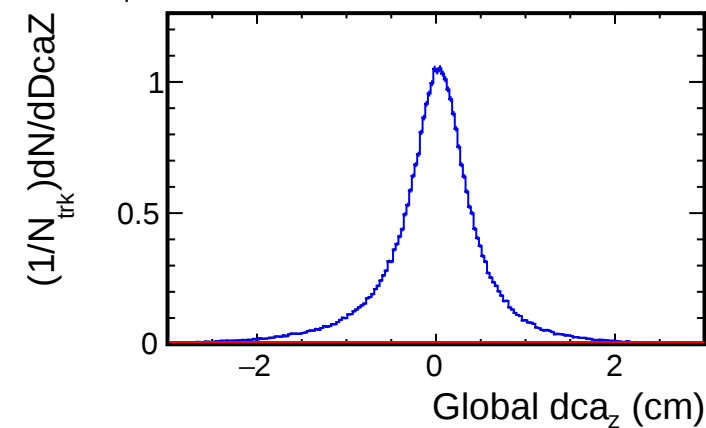
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



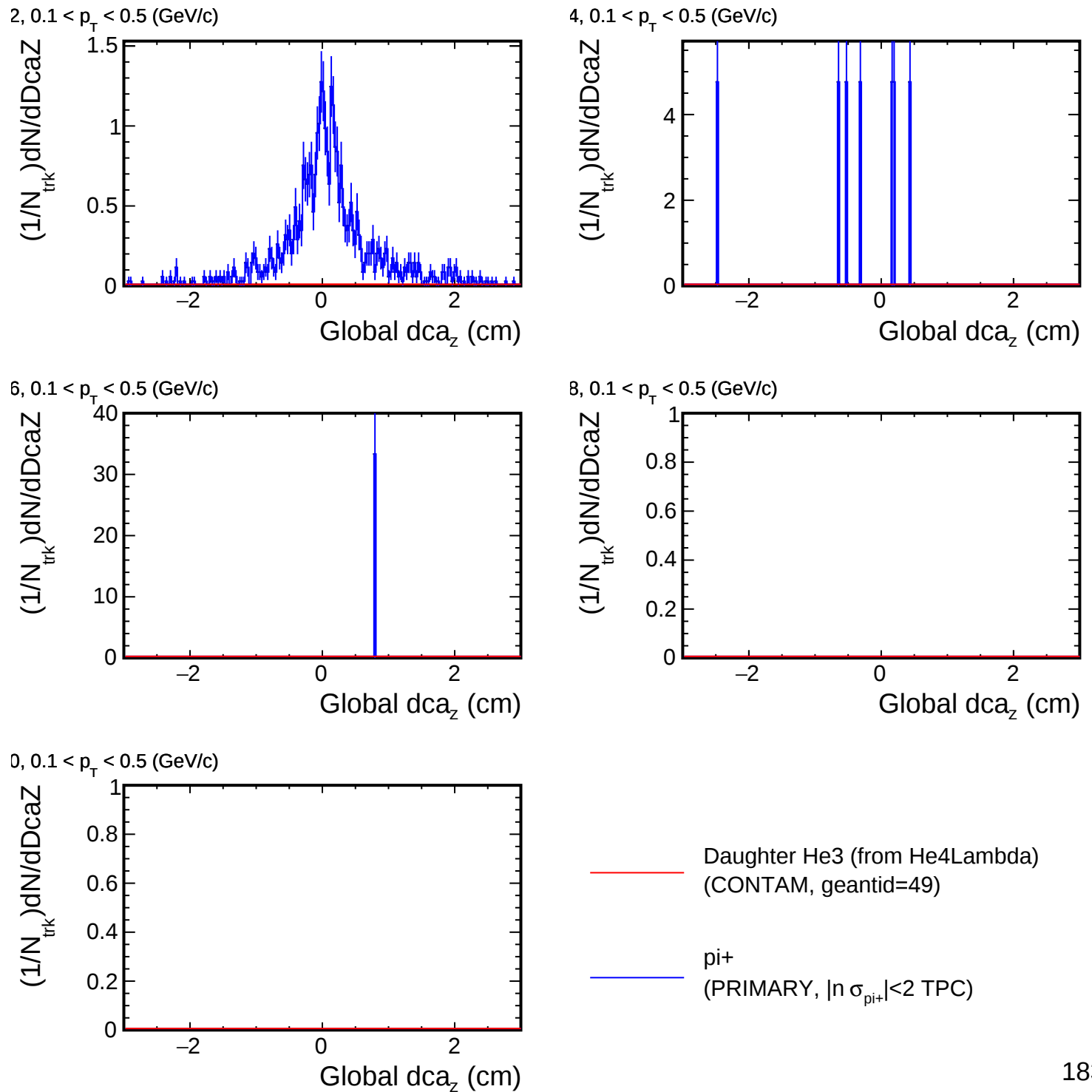
1.0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

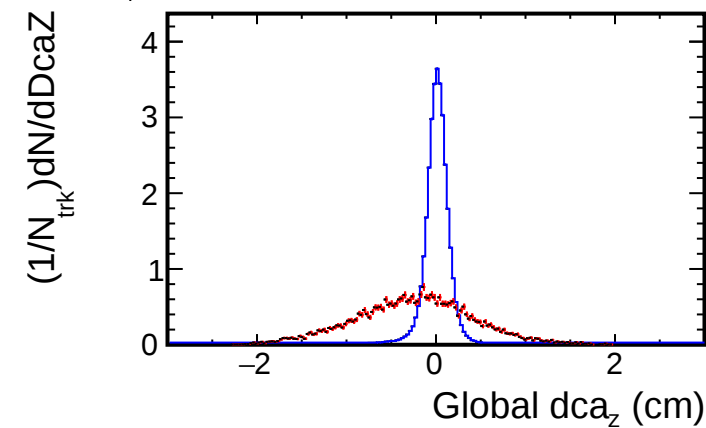
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

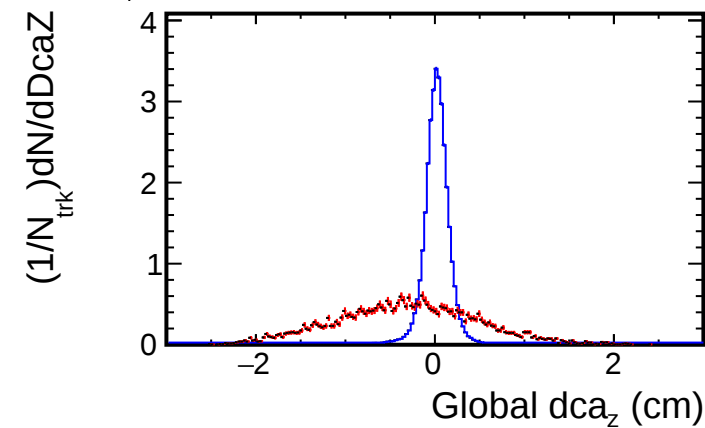


DcaZ distribution for (p_T , η) slices

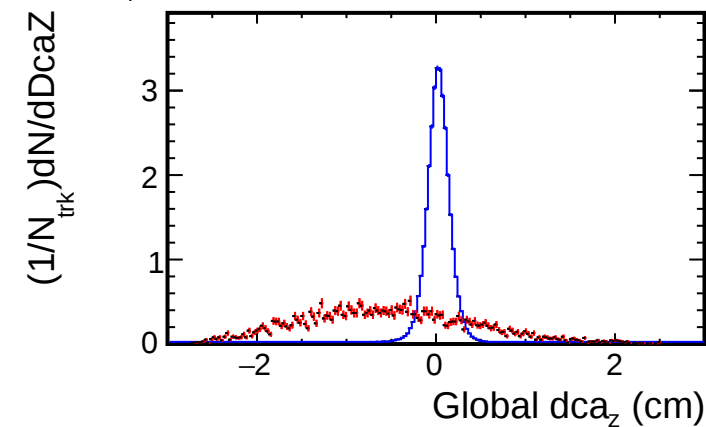
1.8, $0.5 < p_T < 1.0$ (GeV/c)



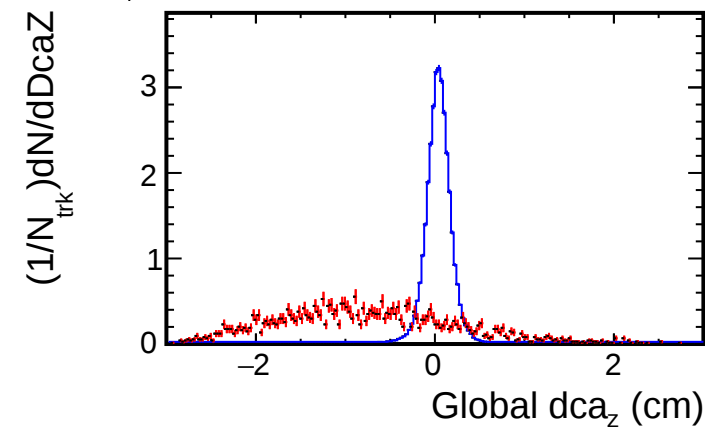
1.6, $0.5 < p_T < 1.0$ (GeV/c)



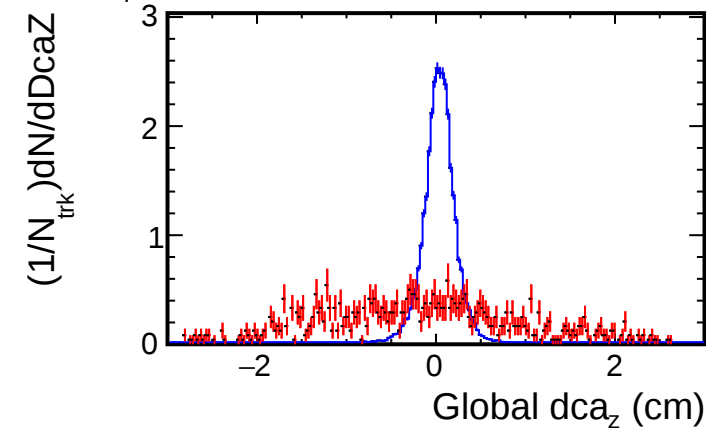
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



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

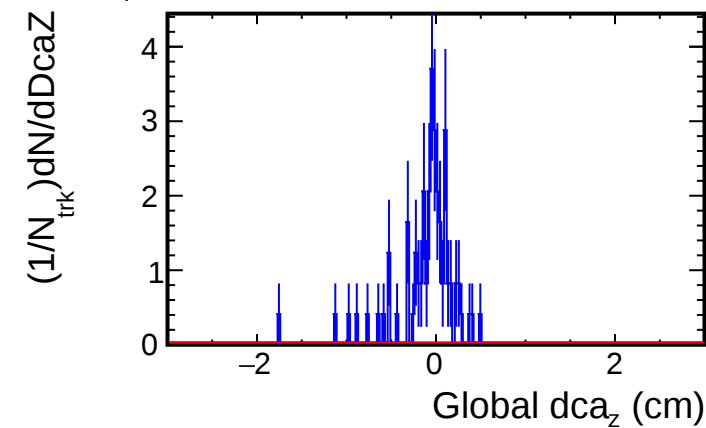


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

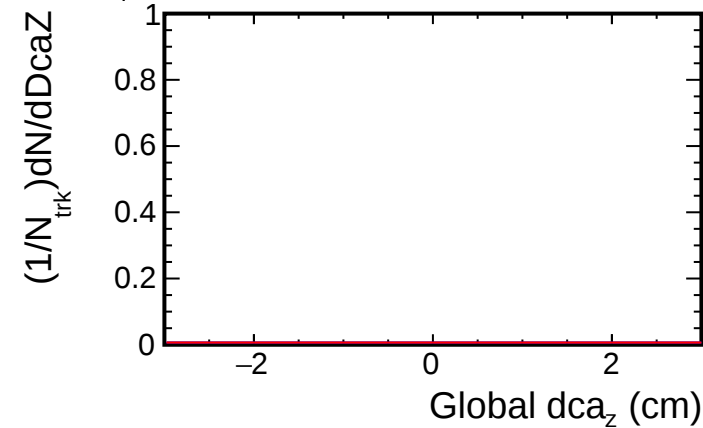
— pi+
(PRIMARY, $|n_{\sigma_{\text{pi}^+}}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

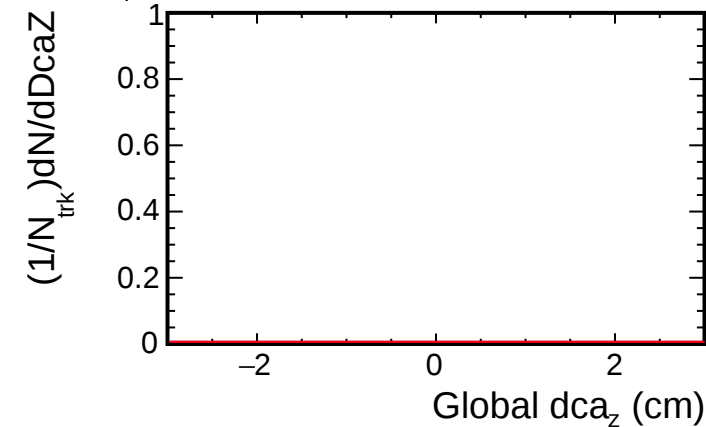
2, $0.5 < p_T < 1.0$ (GeV/c)



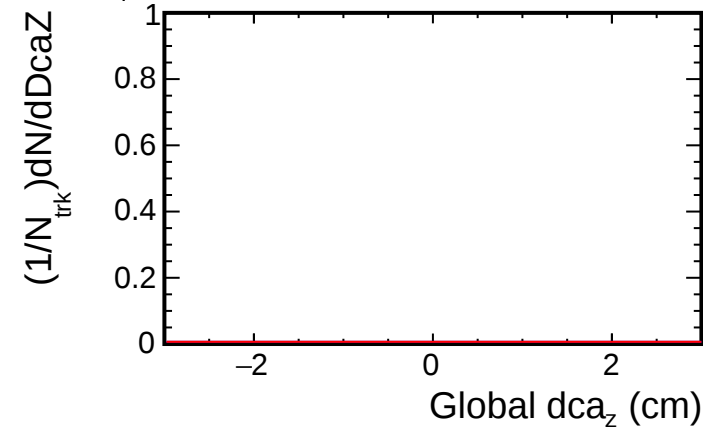
4, $0.5 < p_T < 1.0$ (GeV/c)



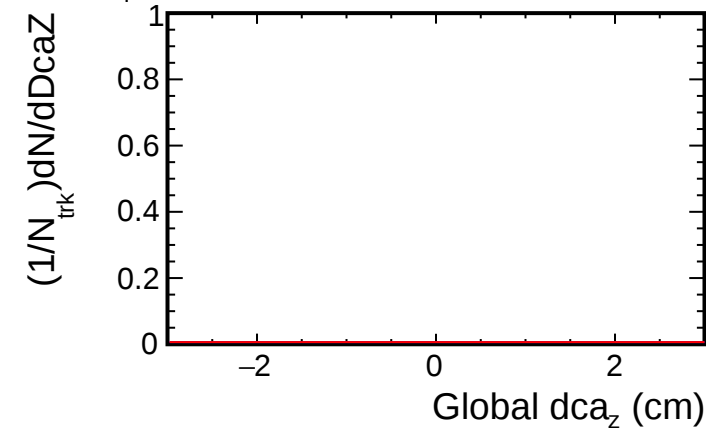
6, $0.5 < p_T < 1.0$ (GeV/c)



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



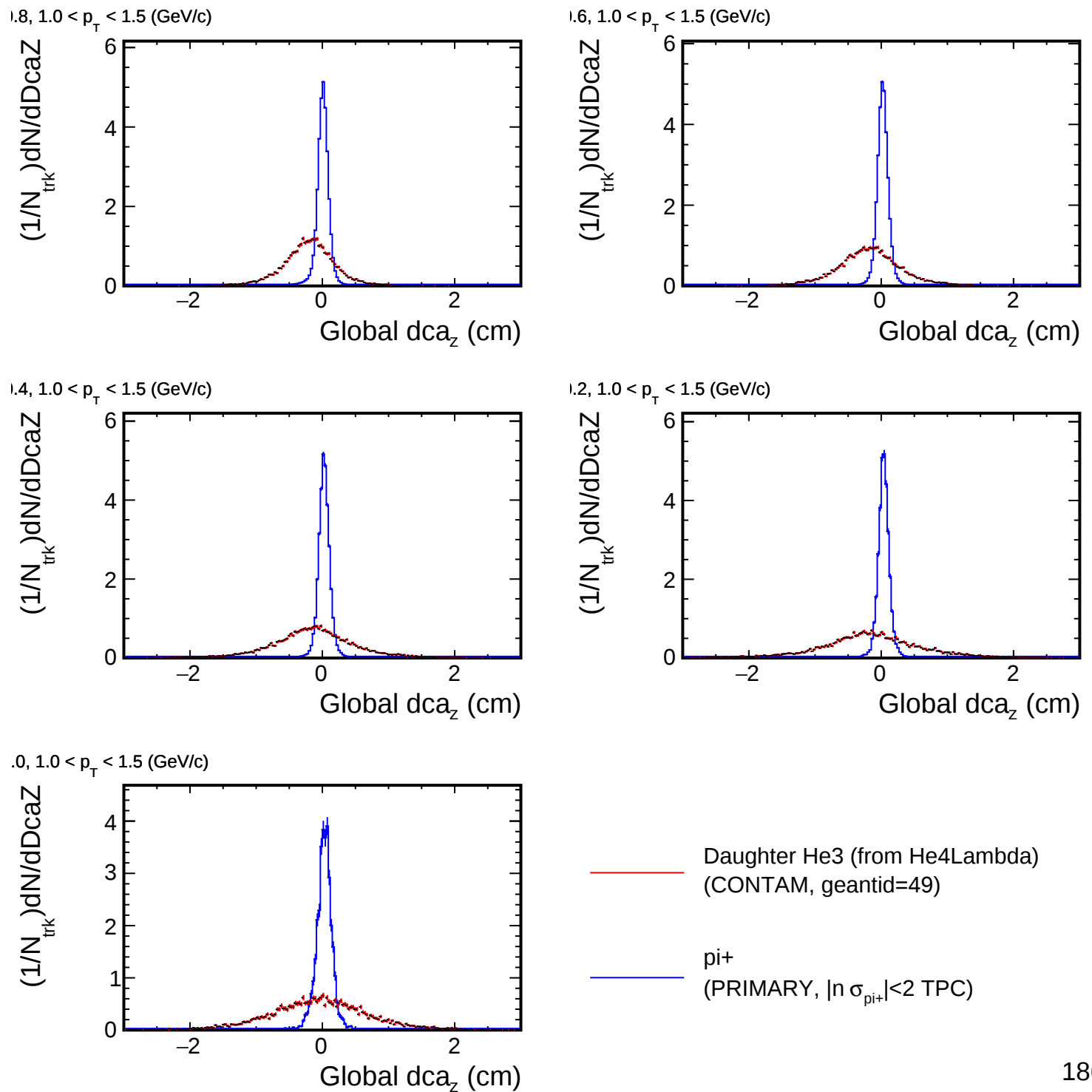
0, $0.5 < p_T < 1.0$ (GeV/c)



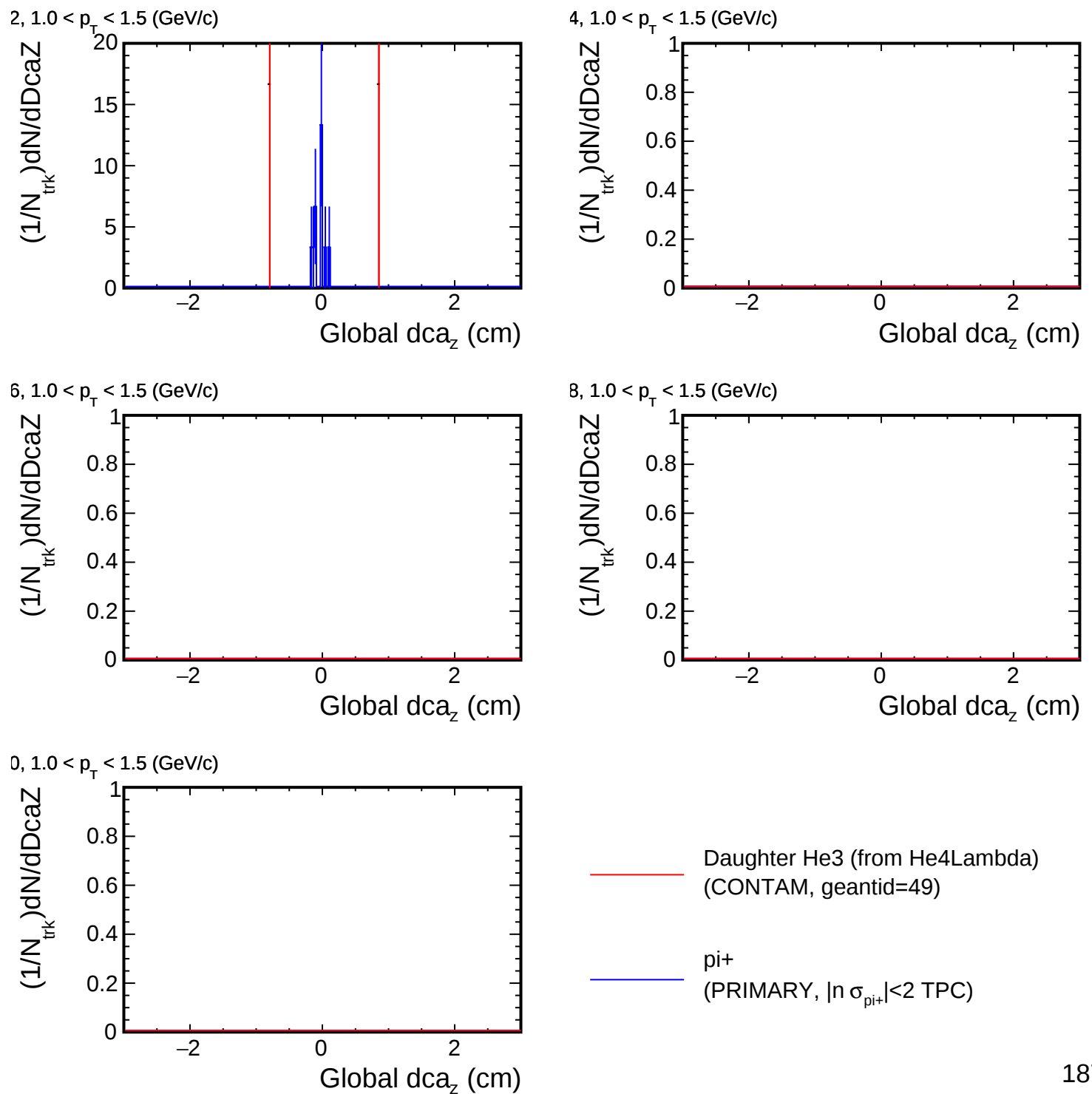
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

DcaZ distribution for (p_T , η) slices

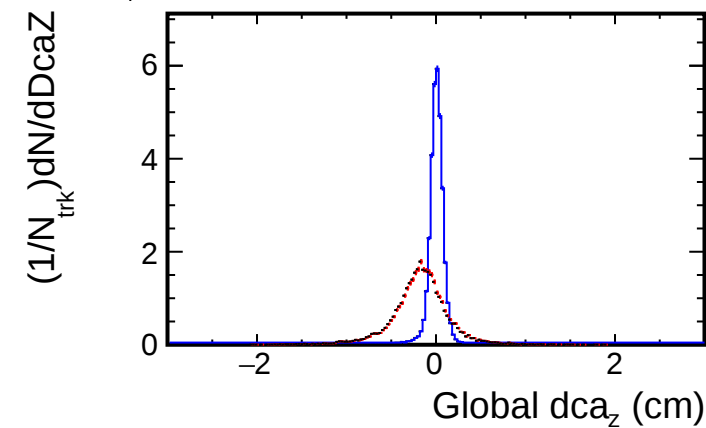


DcaZ distribution for (p_T , η) slices

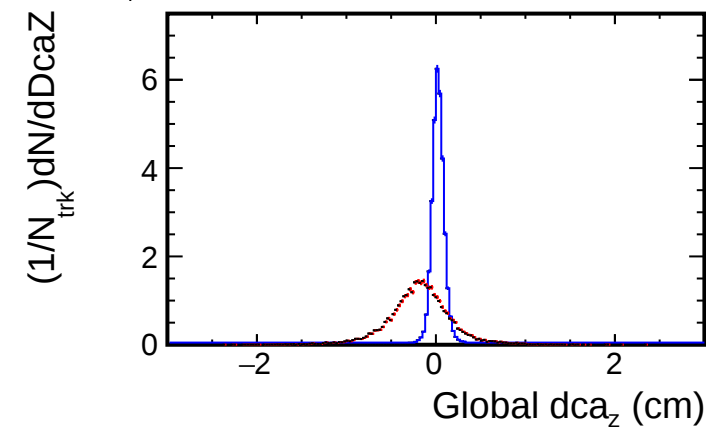


DcaZ distribution for (p_T , η) slices

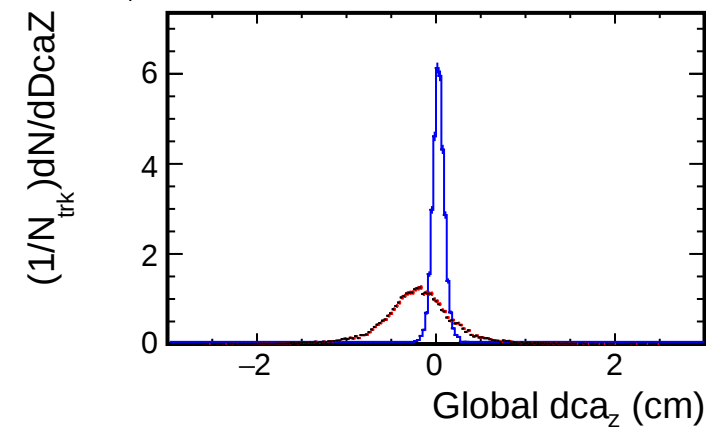
1.8, $1.5 < p_T < 2.0$ (GeV/c)



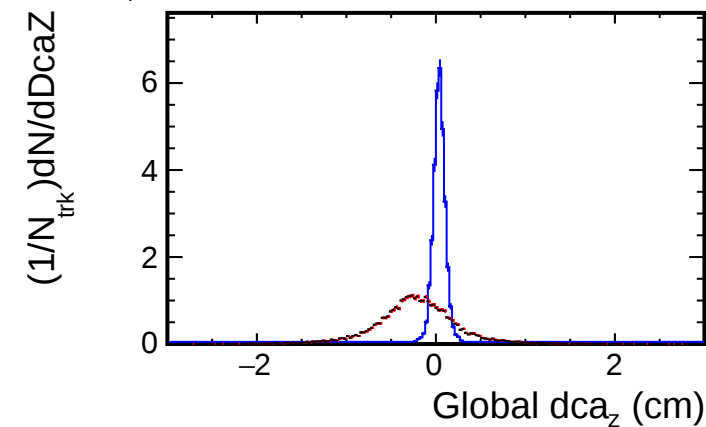
1.6, $1.5 < p_T < 2.0$ (GeV/c)



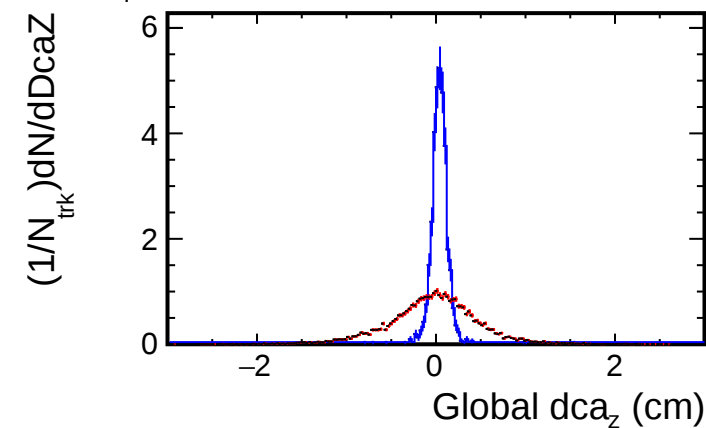
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



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

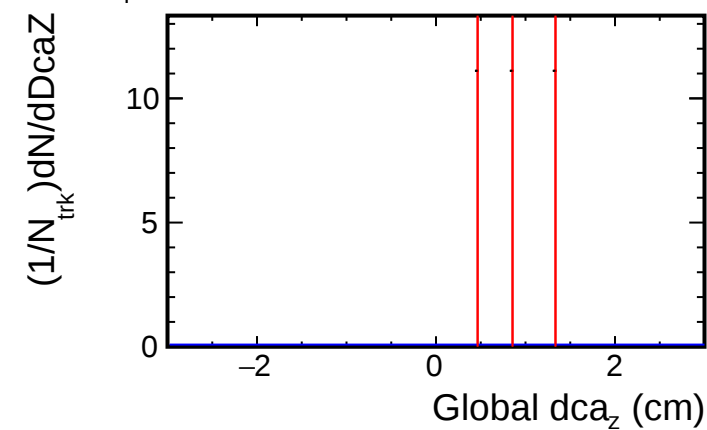


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

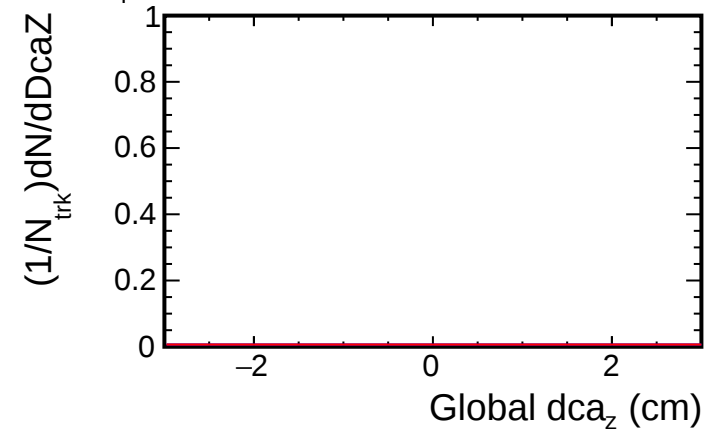
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

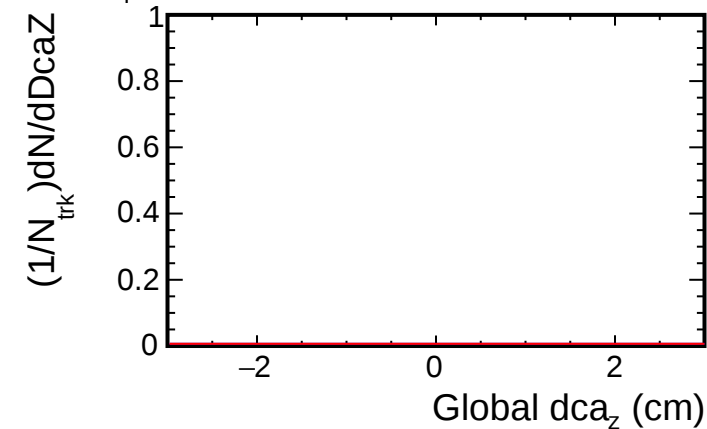
2, $1.5 < p_T < 2.0$ (GeV/c)



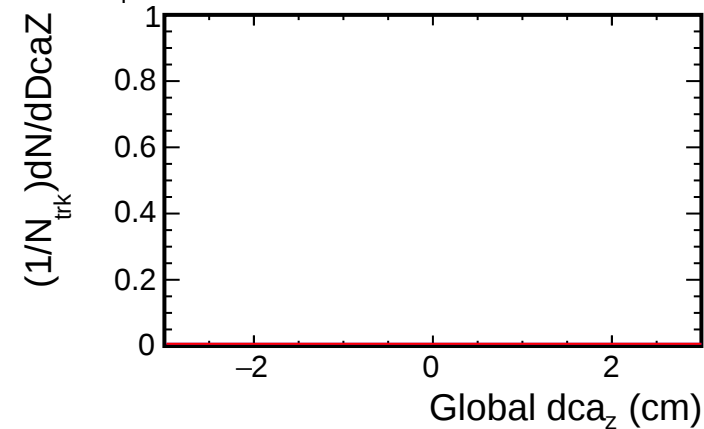
4, $1.5 < p_T < 2.0$ (GeV/c)



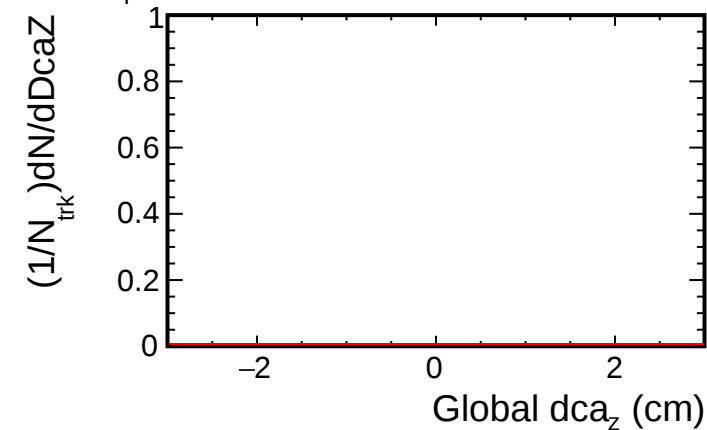
6, $1.5 < p_T < 2.0$ (GeV/c)



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



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

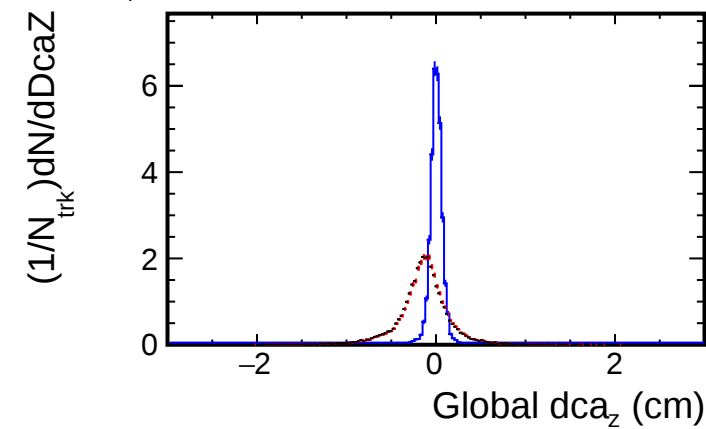


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

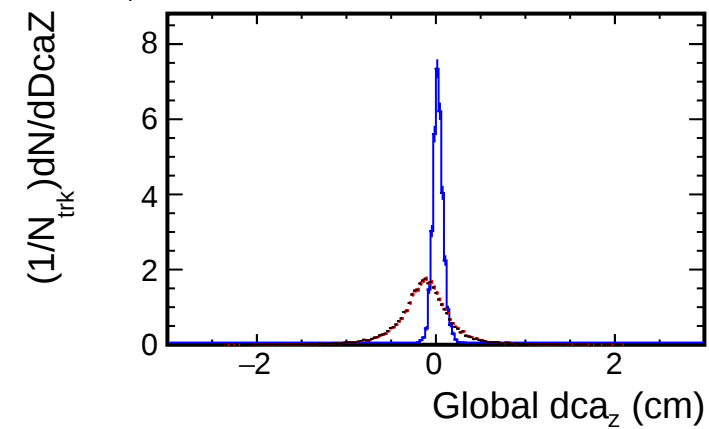
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

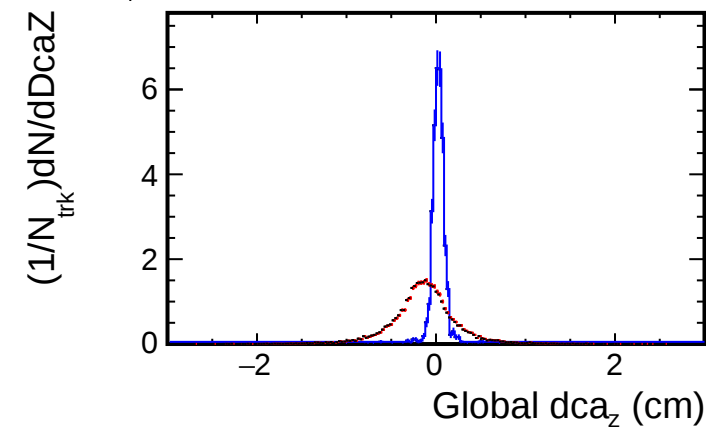
1.8, $2.0 < p_T < 2.5$ (GeV/c)



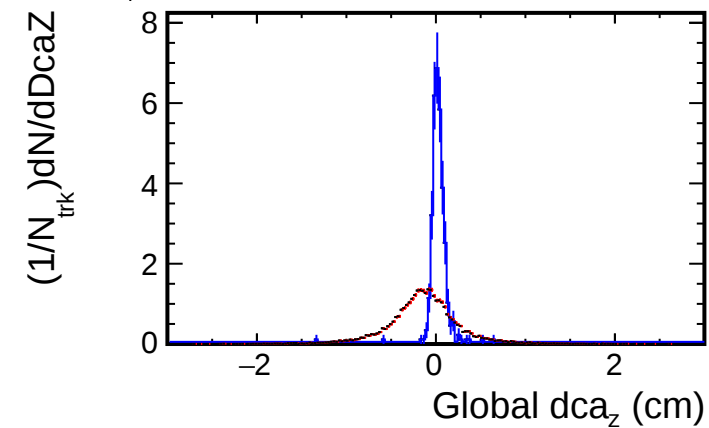
1.6, $2.0 < p_T < 2.5$ (GeV/c)



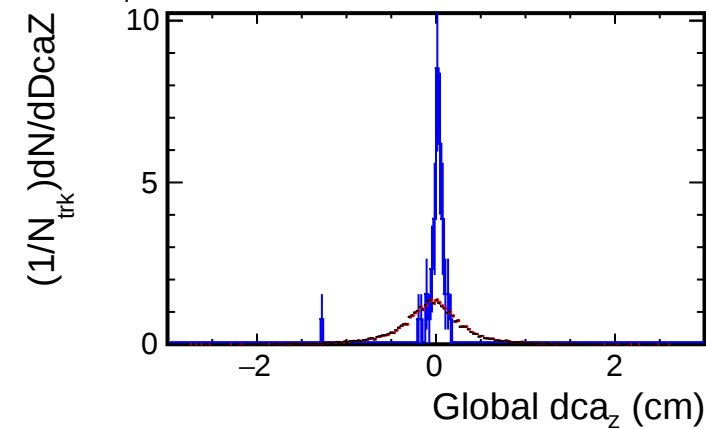
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



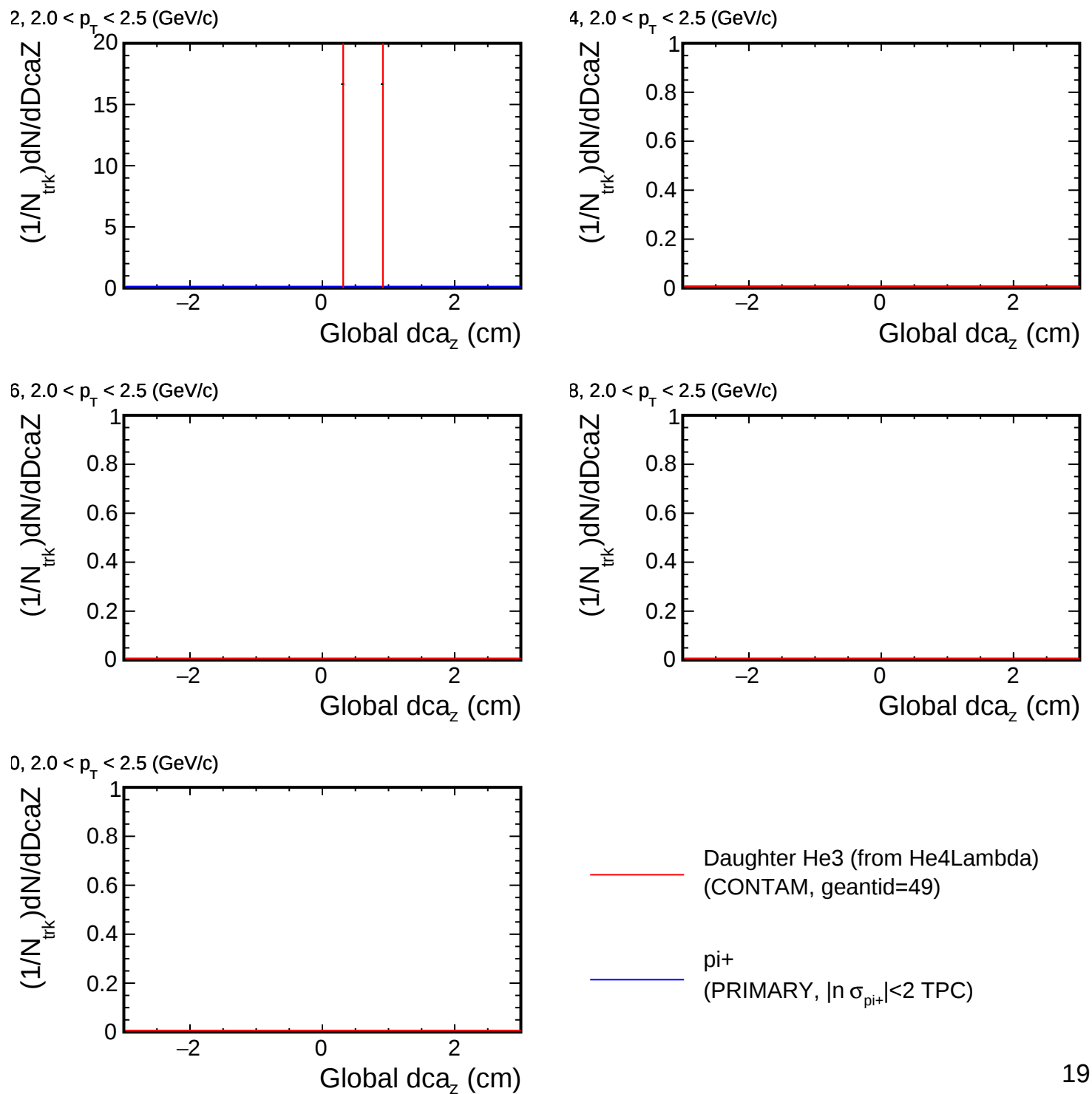
1.0, $2.0 < p_T < 2.5$ (GeV/c)



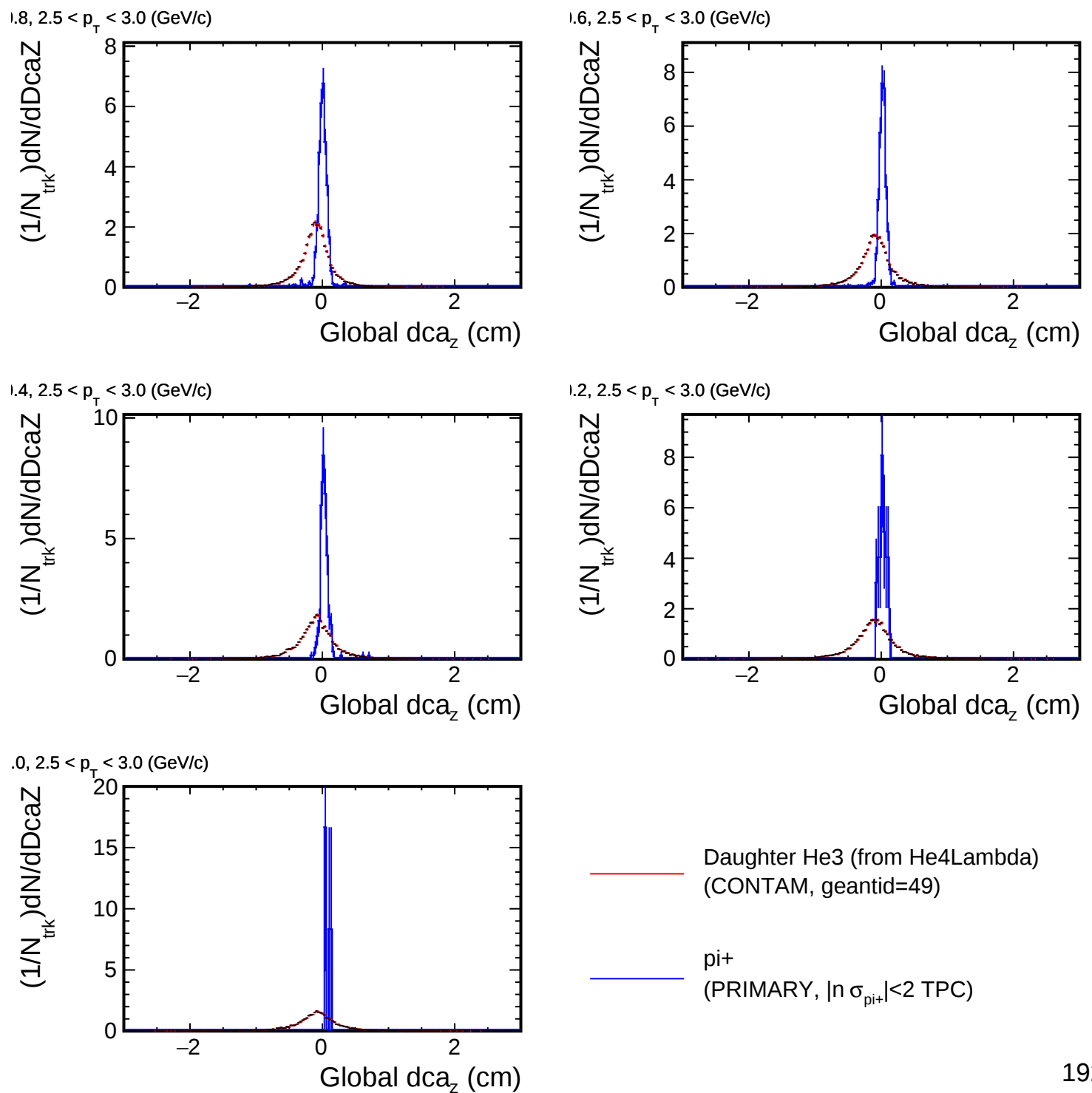
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

DcaZ distribution for (p_T , η) slices

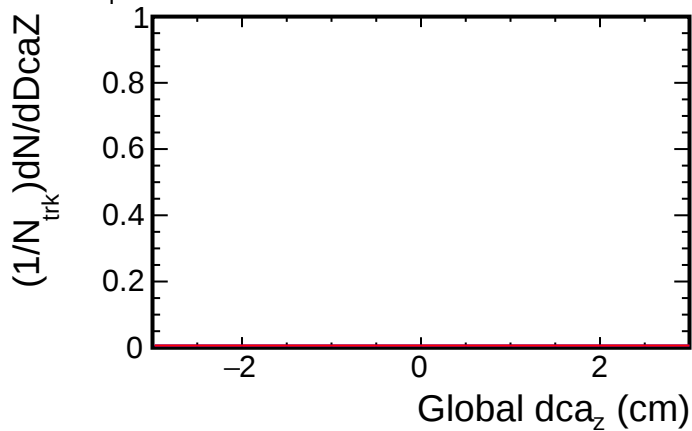


DcaZ distribution for (p_T , η) slices

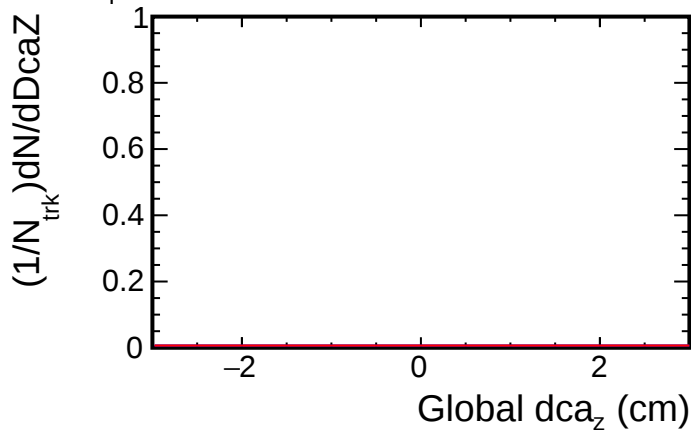


DcaZ distribution for (p_T , η) slices

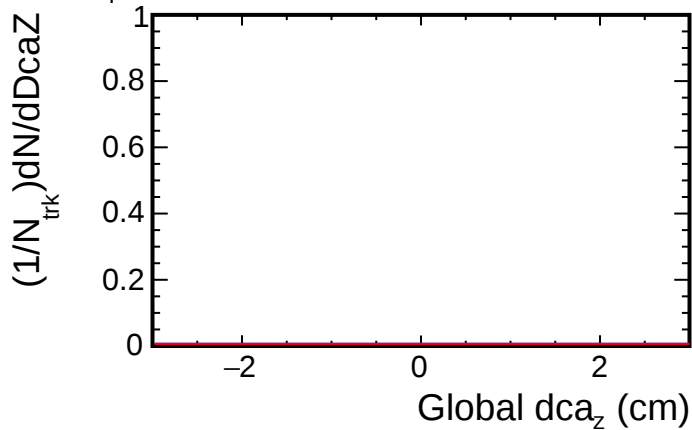
2, $2.5 < p_T < 3.0$ (GeV/c)



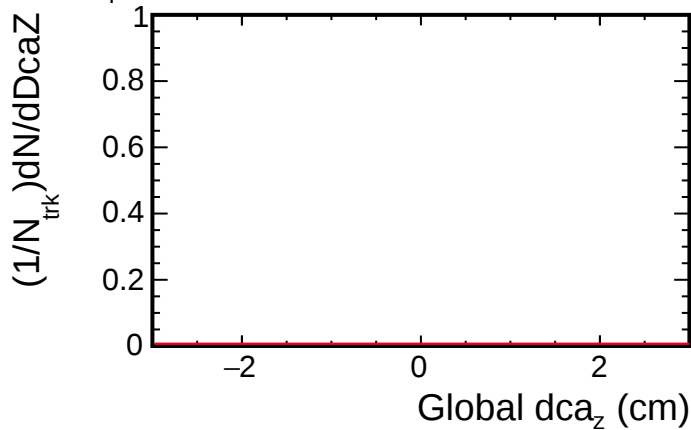
4, $2.5 < p_T < 3.0$ (GeV/c)



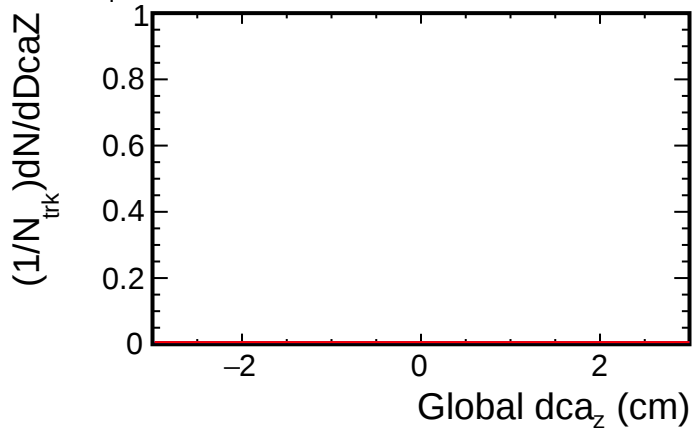
6, $2.5 < p_T < 3.0$ (GeV/c)



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



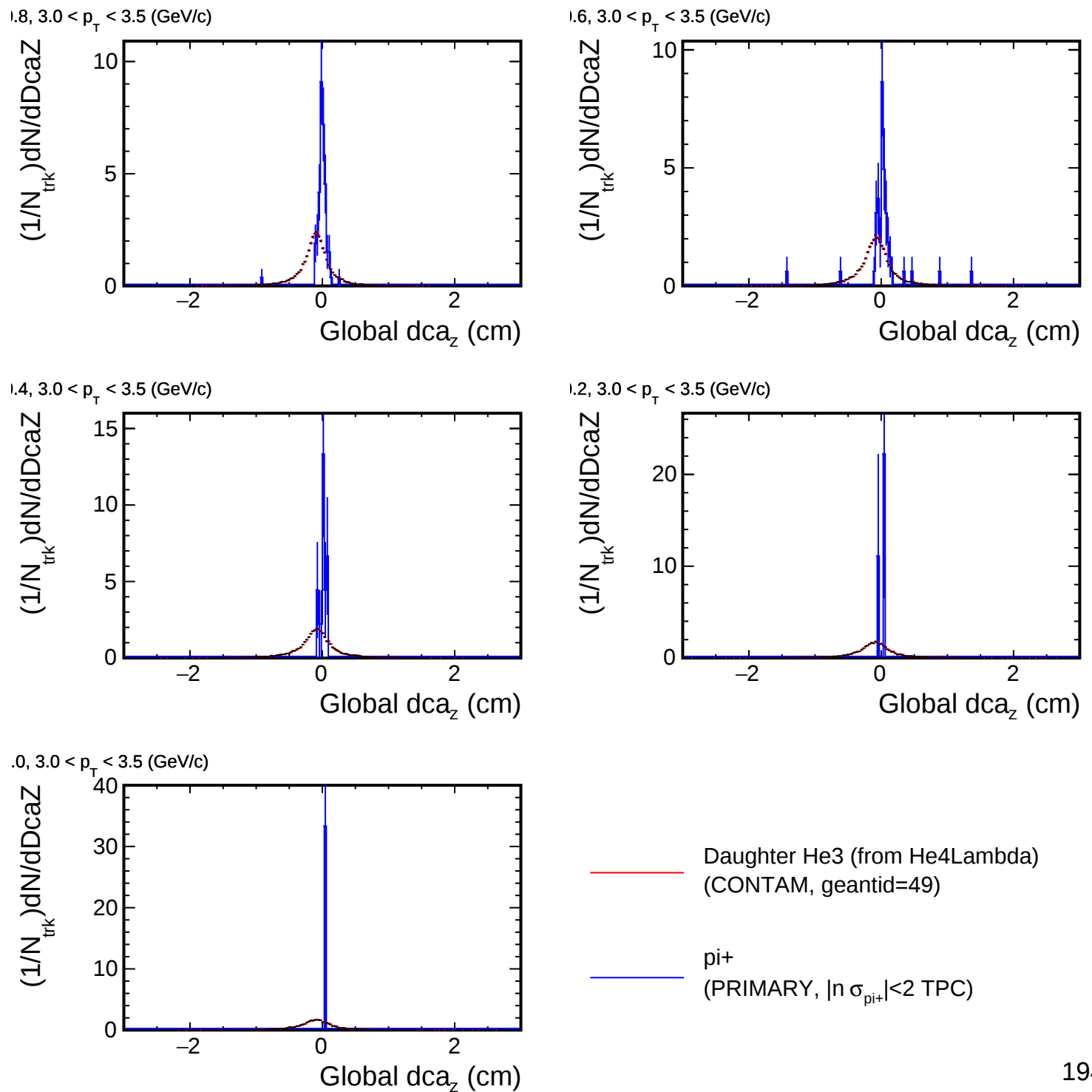
0, $2.5 < p_T < 3.0$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

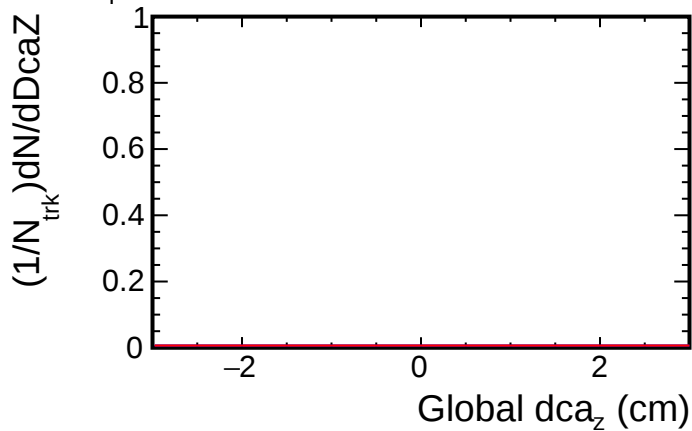
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

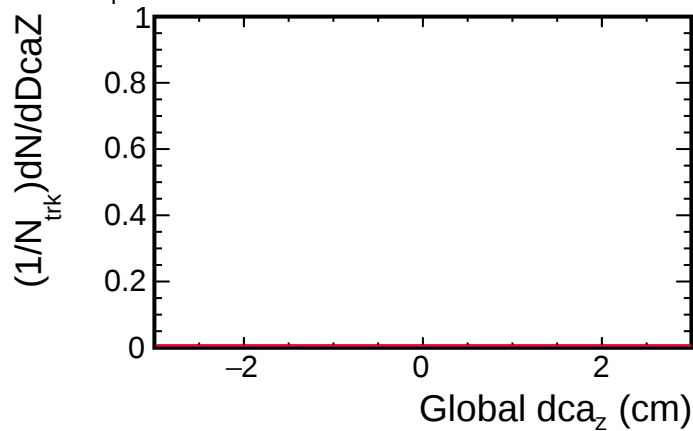


DcaZ distribution for (p_T , η) slices

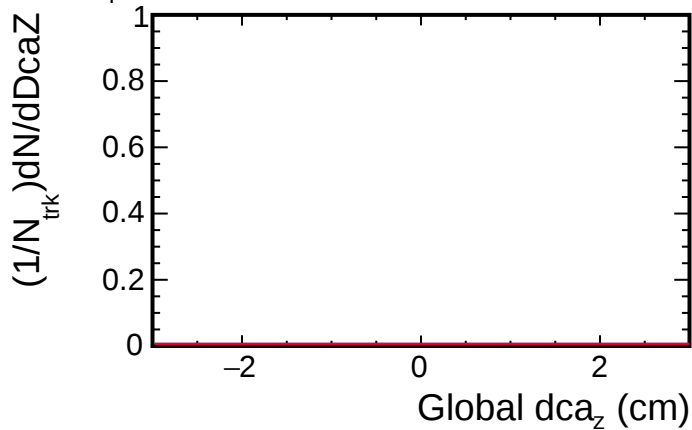
2, $3.0 < p_T < 3.5$ (GeV/c)



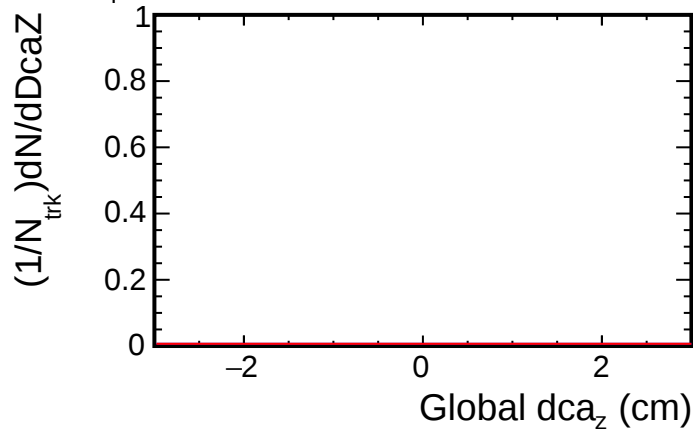
4, $3.0 < p_T < 3.5$ (GeV/c)



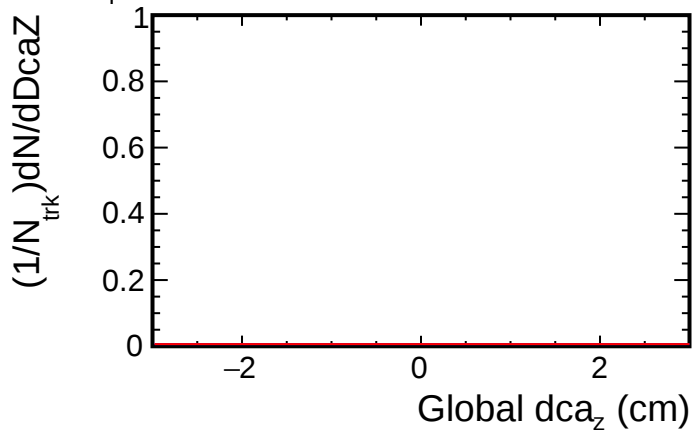
6, $3.0 < p_T < 3.5$ (GeV/c)



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



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

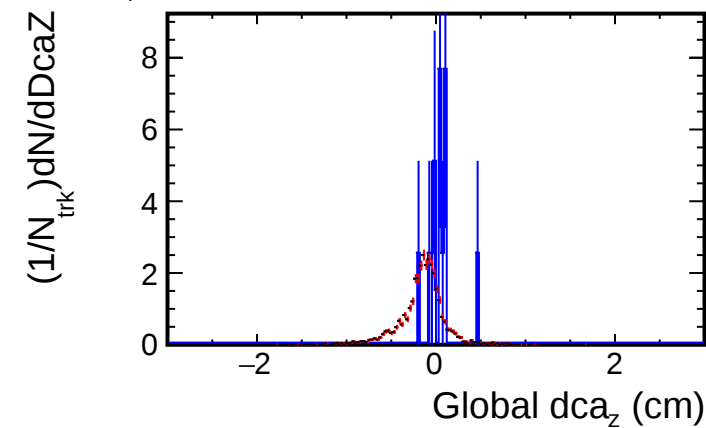


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

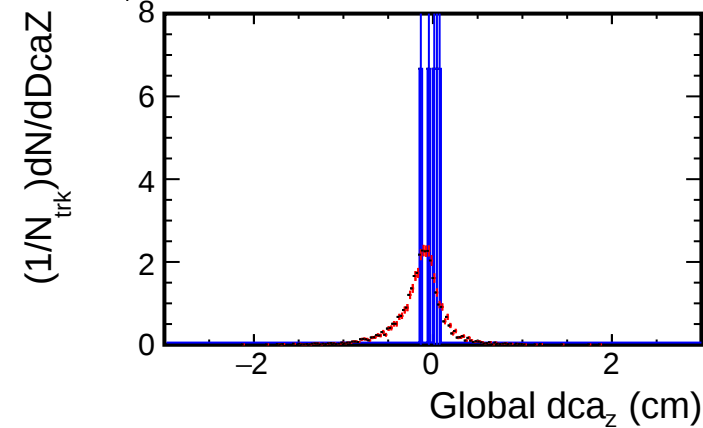
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

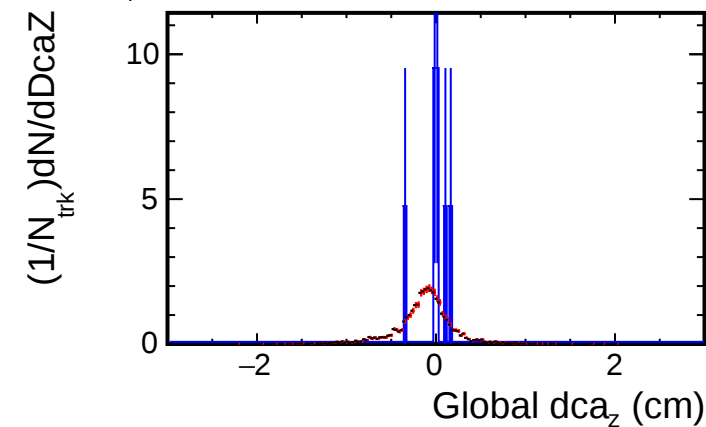
1.8, $3.5 < p_T < 4.0$ (GeV/c)



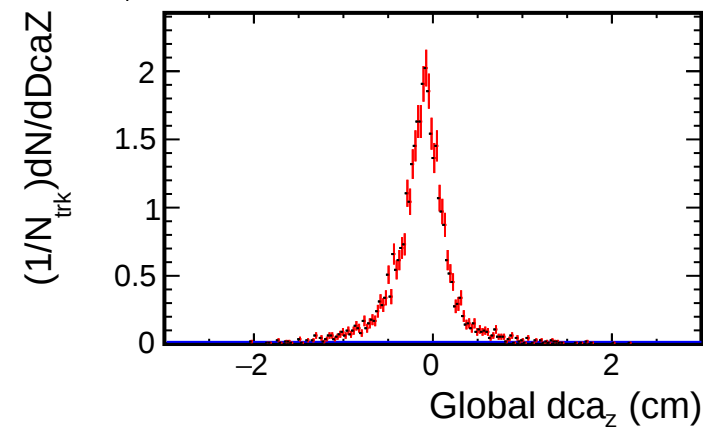
1.6, $3.5 < p_T < 4.0$ (GeV/c)



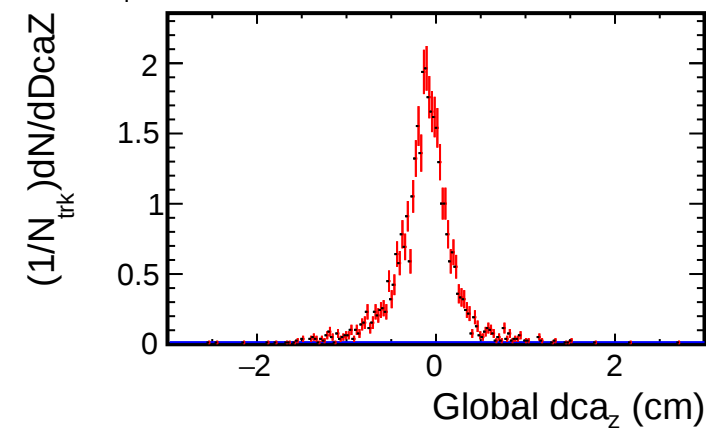
1.4, $3.5 < p_T < 4.0$ (GeV/c)



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



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

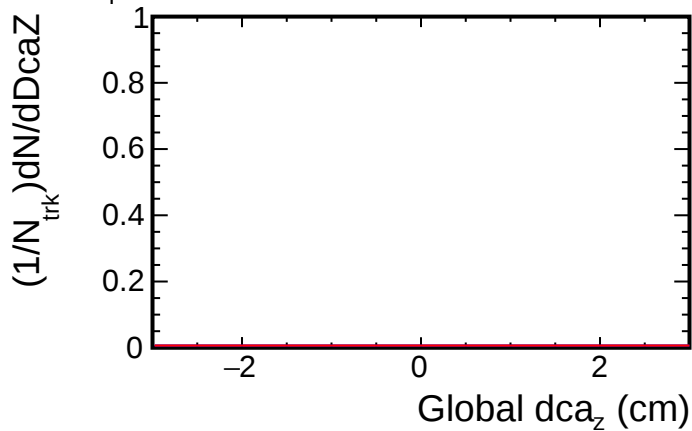


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

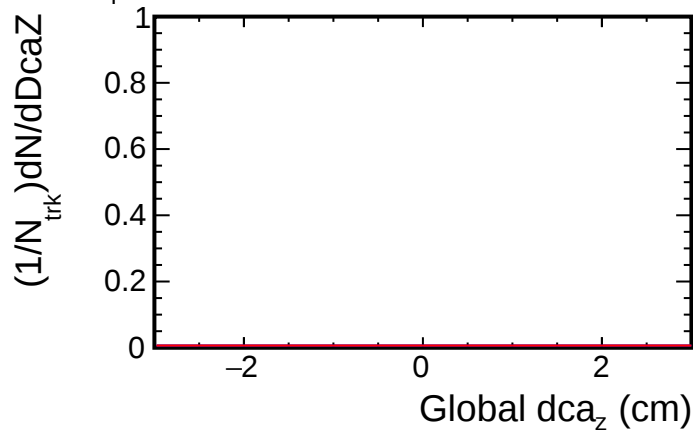
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

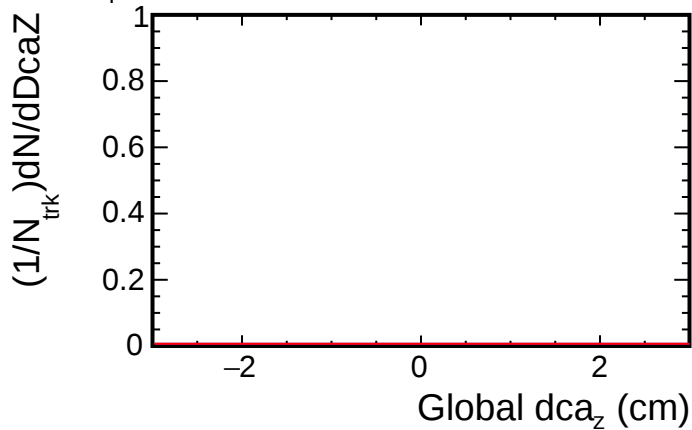
2, $3.5 < p_T < 4.0$ (GeV/c)



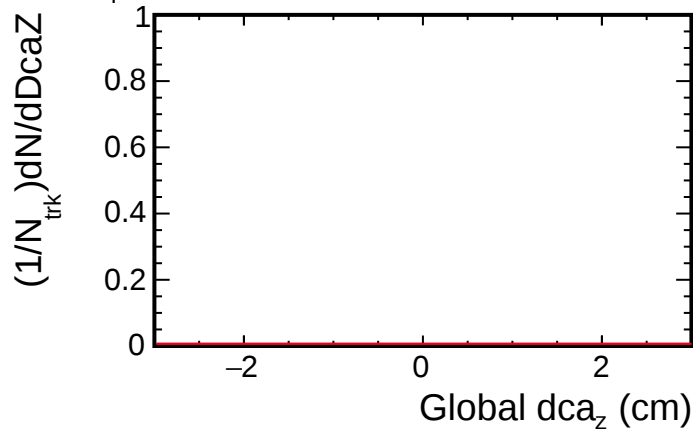
4, $3.5 < p_T < 4.0$ (GeV/c)



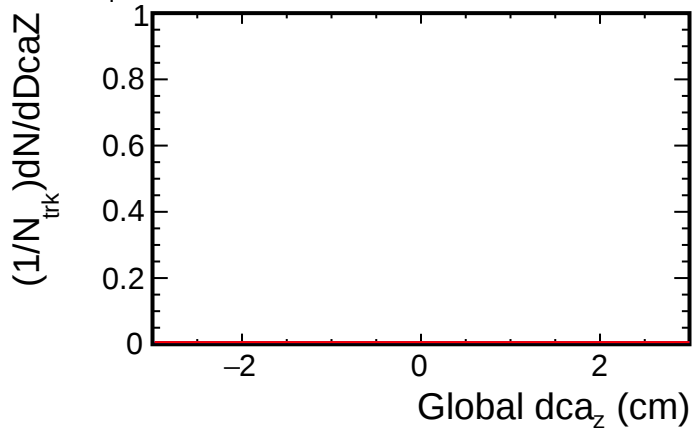
6, $3.5 < p_T < 4.0$ (GeV/c)



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



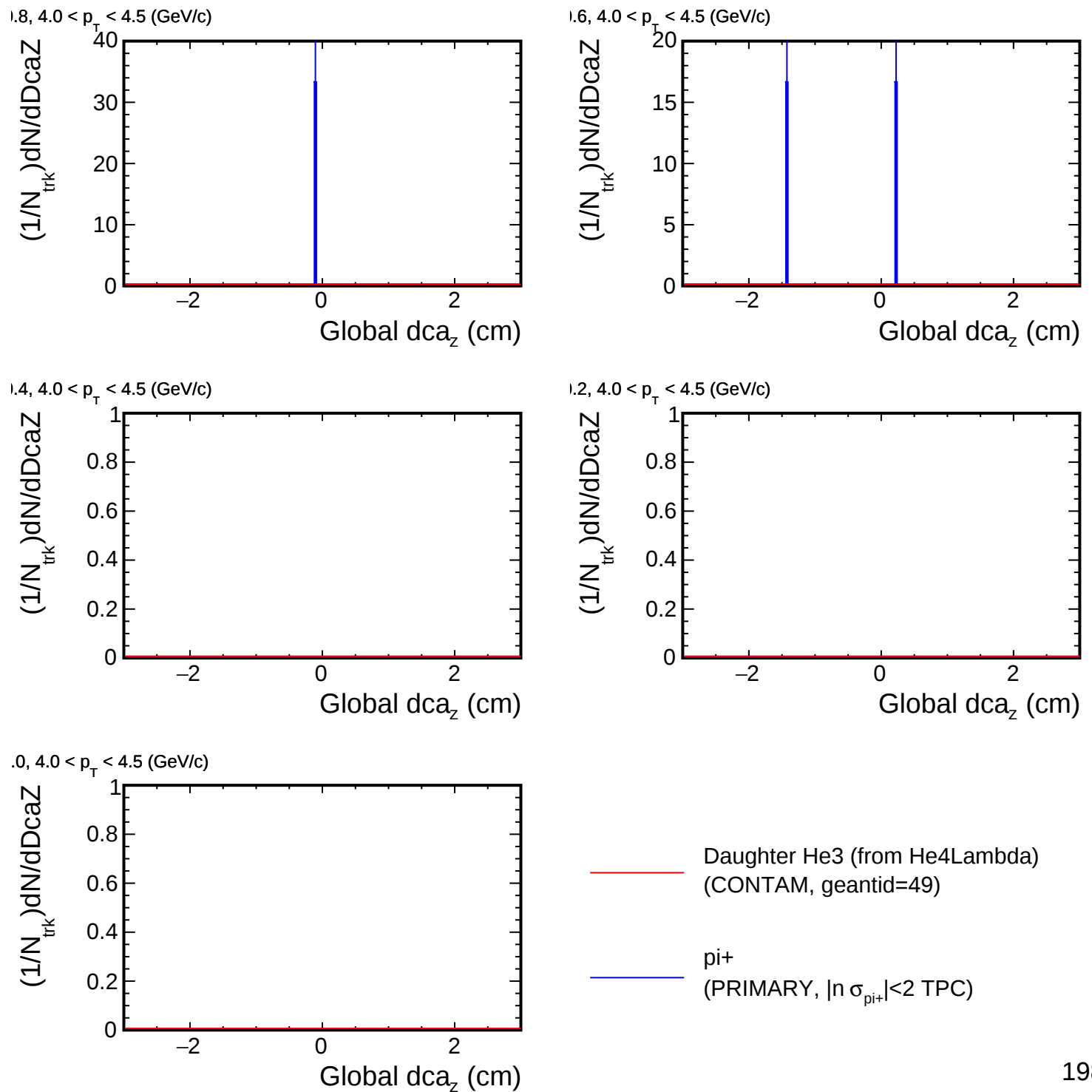
0, $3.5 < p_T < 4.0$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

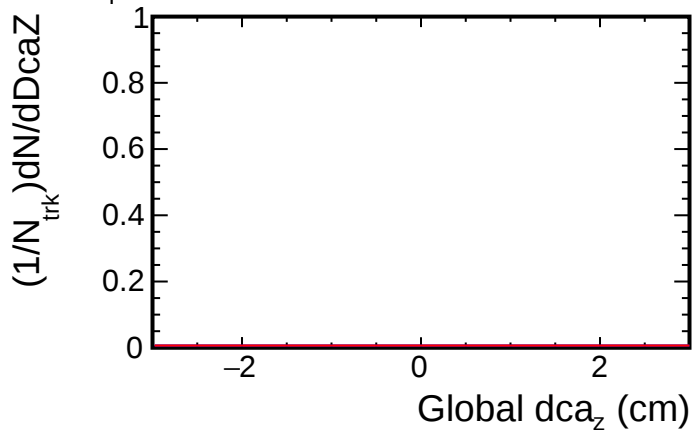
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

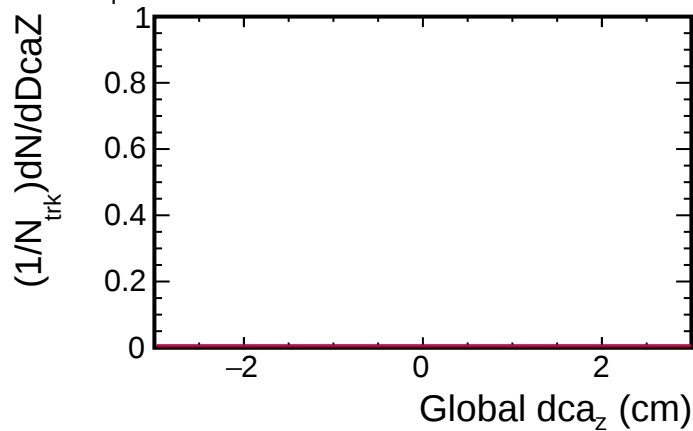


DcaZ distribution for (p_T , η) slices

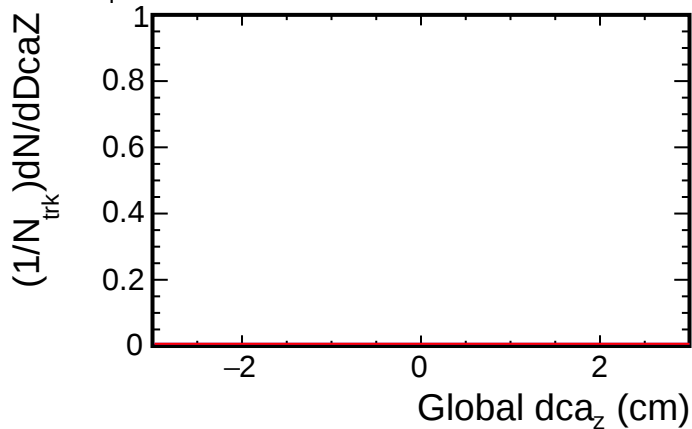
2, $4.0 < p_T < 4.5$ (GeV/c)



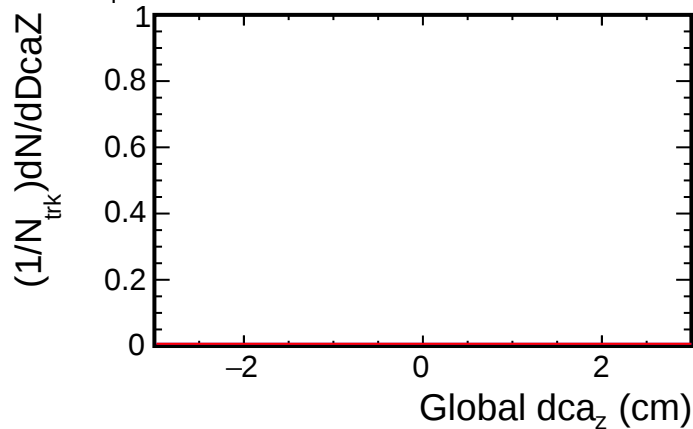
4, $4.0 < p_T < 4.5$ (GeV/c)



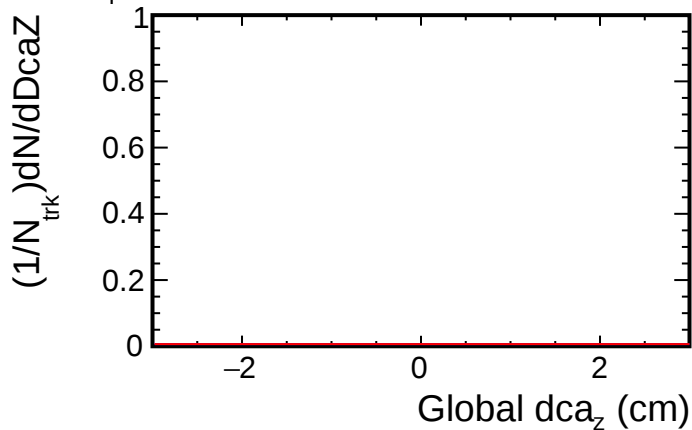
6, $4.0 < p_T < 4.5$ (GeV/c)



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



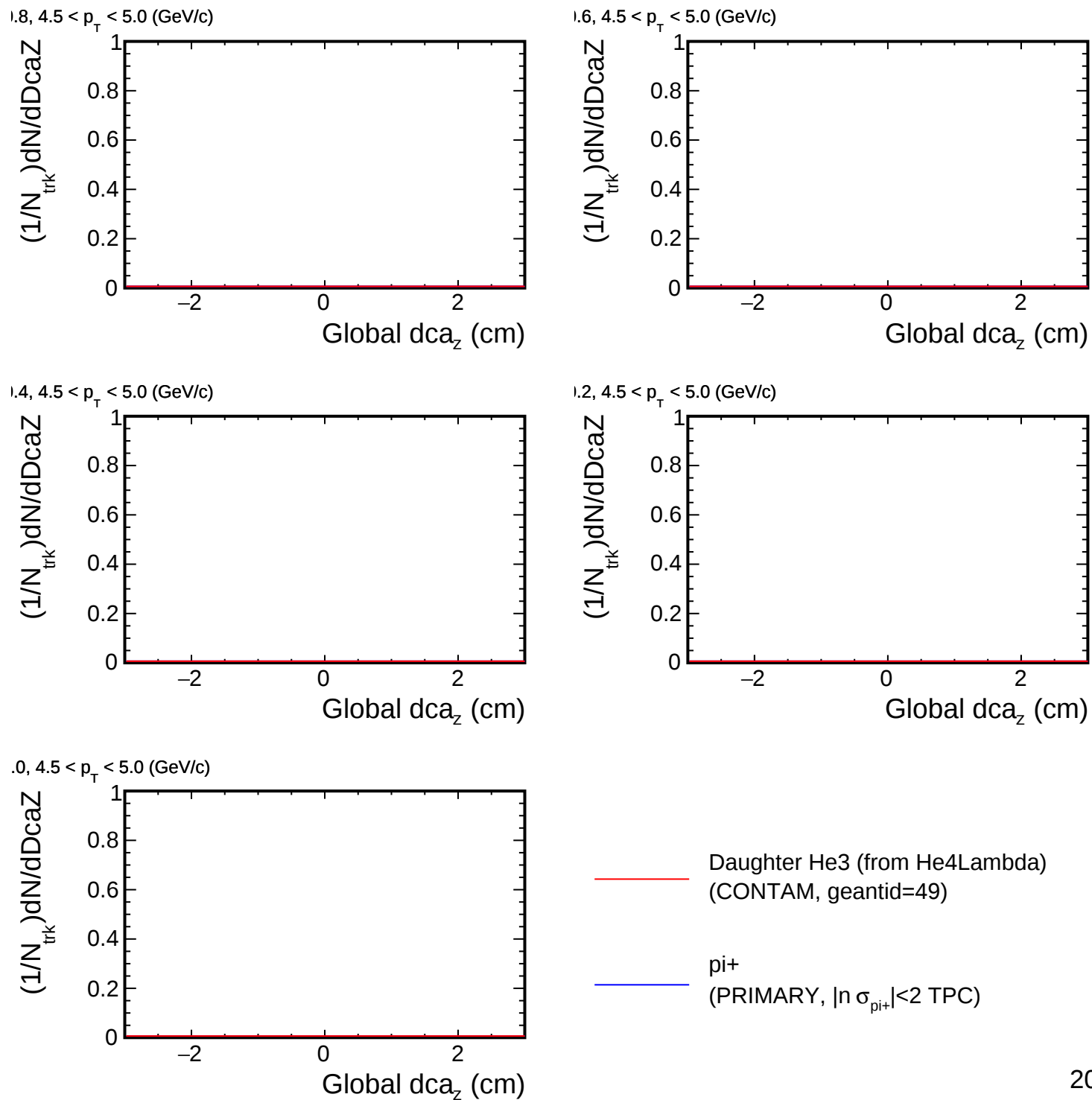
0, $4.0 < p_T < 4.5$ (GeV/c)



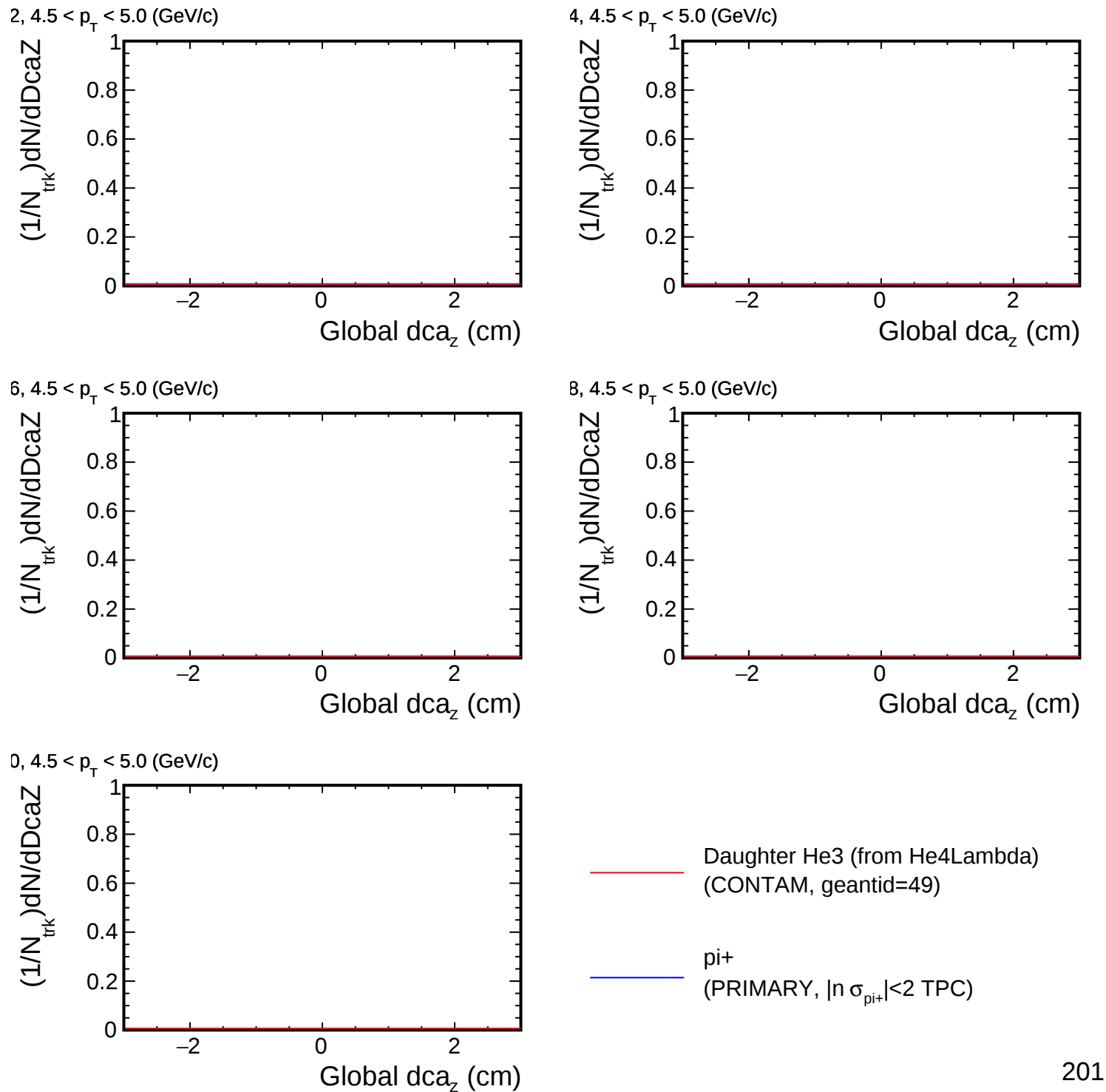
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

DcaZ distribution for (p_T , η) slices

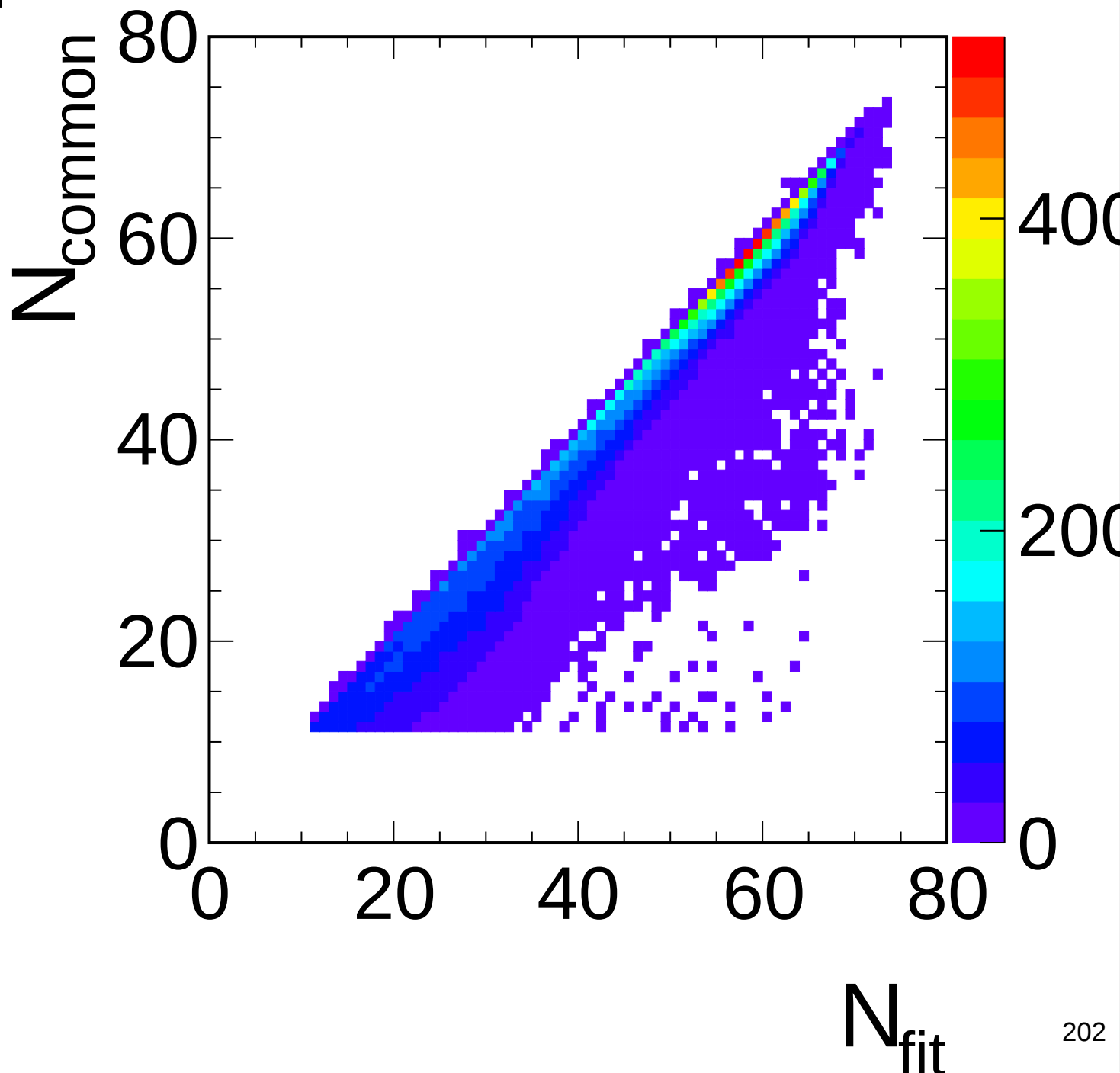


DcaZ distribution for (p_T, η) slices



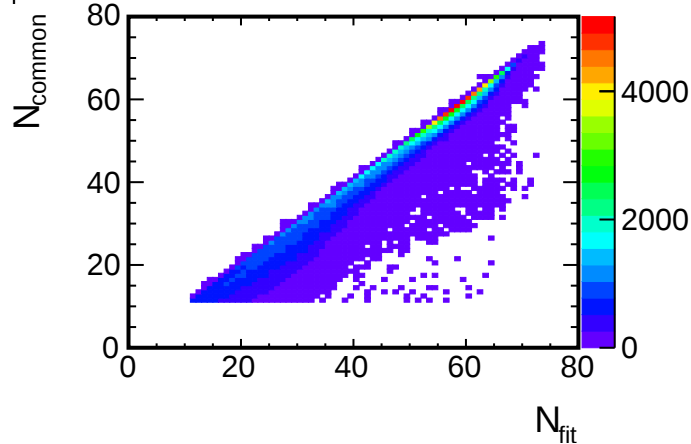
N_{common} vs N_{hit} (Embedding:pi-, Real:pi-)

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

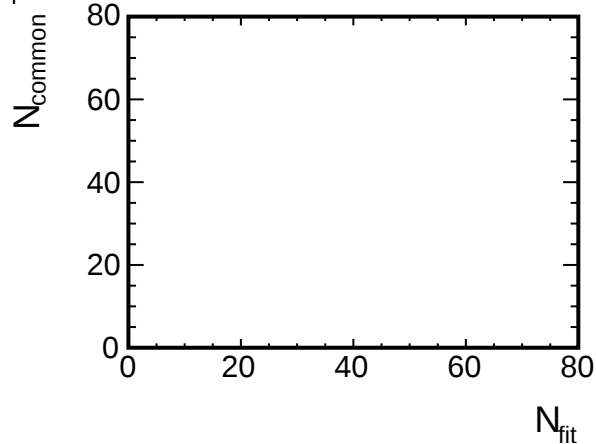


N_{common} vs N_{hit} , p_T dependence (Embedding:pi-, Real:pi-)

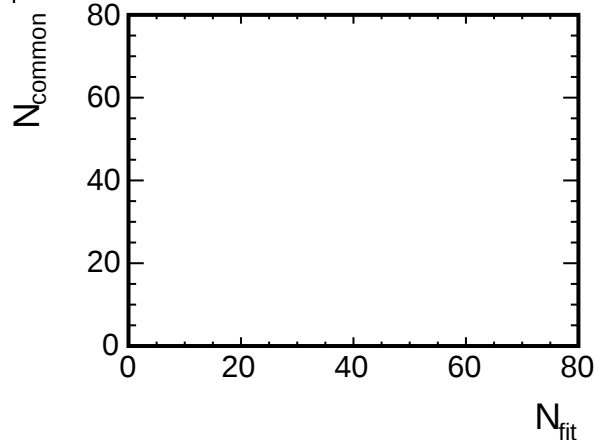
$\langle p_T \rangle < 0.5$ GeV/c



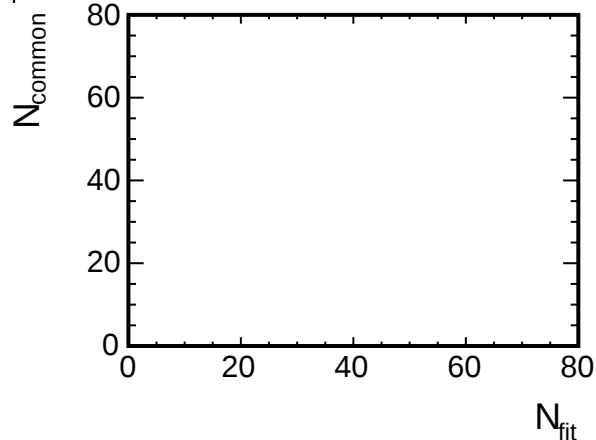
$\langle p_T \rangle < 1.0$ GeV/c



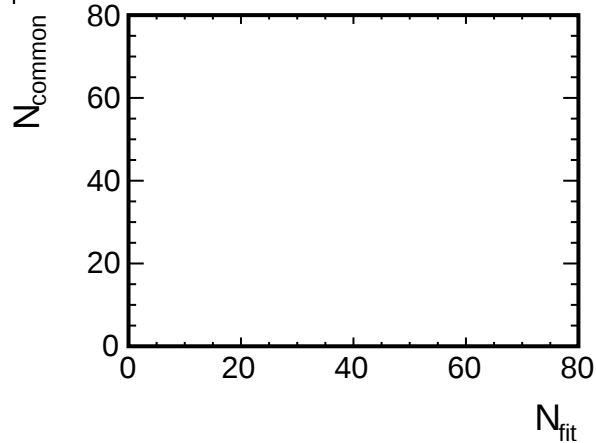
$\langle p_T \rangle < 1.5$ GeV/c



$\langle p_T \rangle < 2.0$ GeV/c

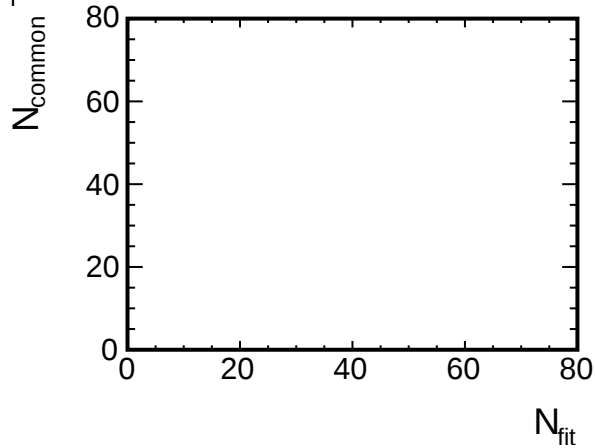


$\langle p_T \rangle < 2.5$ GeV/c

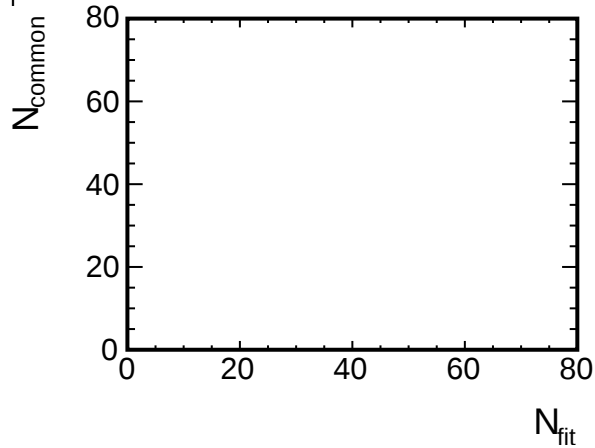


N_{common} vs N_{hit} , p_T dependence (Embedding:pi-, Real:pi-)

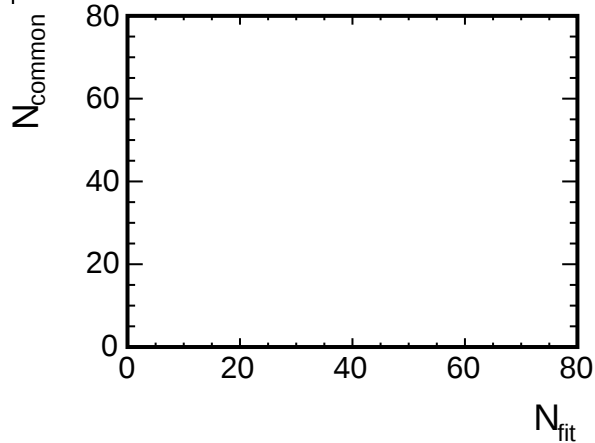
$< p_T < 3.0$ GeV/c



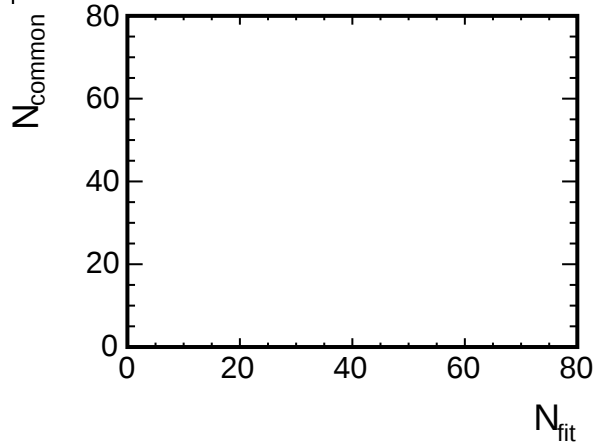
$< p_T < 3.5$ GeV/c



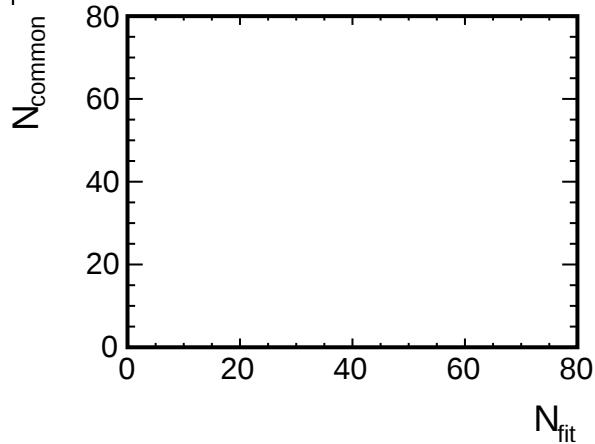
$< p_T < 4.0$ GeV/c



$< p_T < 4.5$ GeV/c

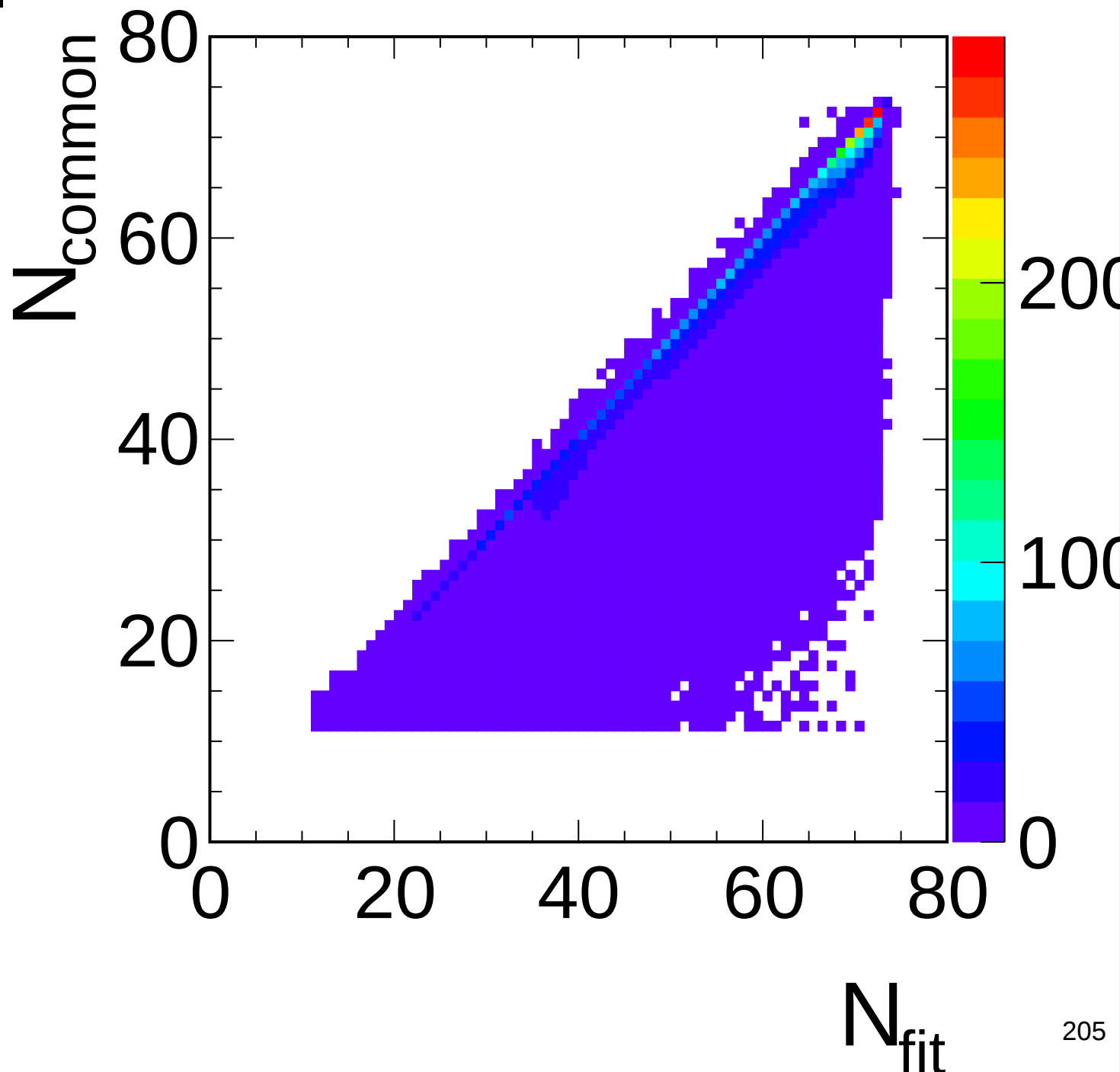


$< p_T < 5.0$ GeV/c



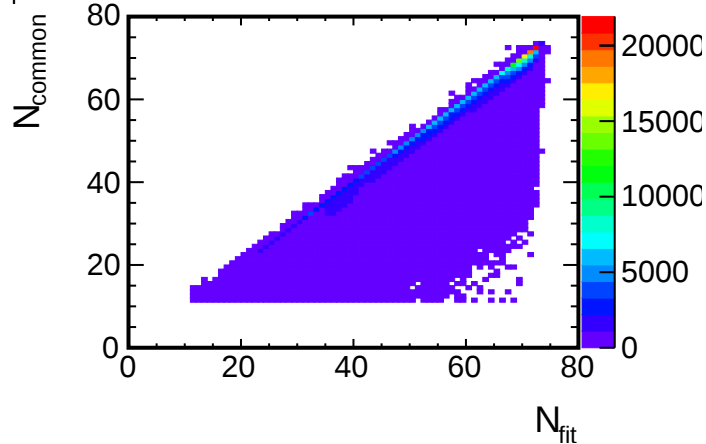
N_{common} vs N_{hit} (Embedding:proton, Real:proton)

$p_T < 5.0$ GeV/c

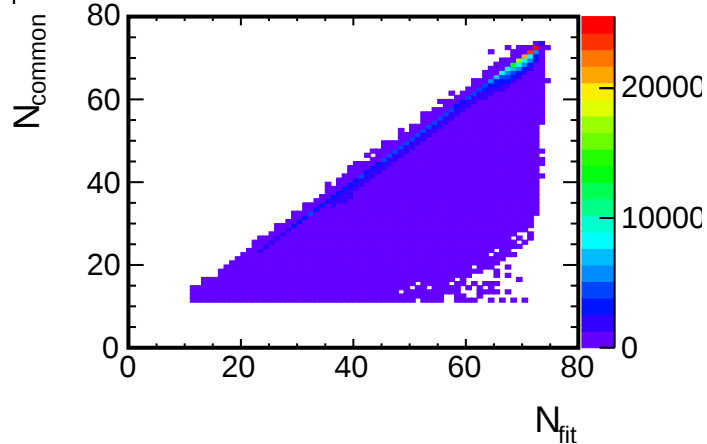


N_{common} vs N_{hit} , p_T dependence (Embedding:proton, Real:proton)

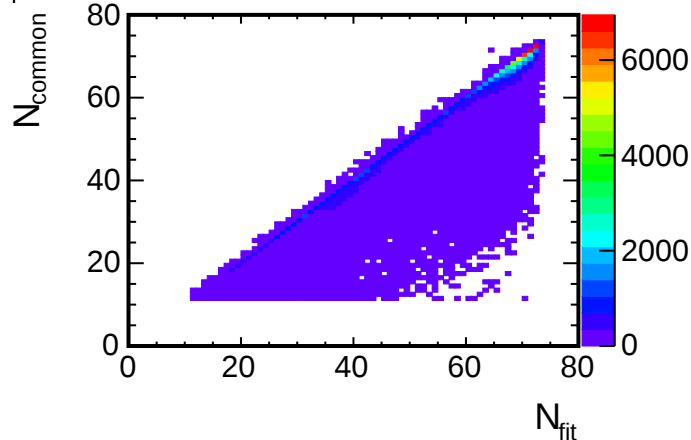
$< p_T < 0.5$ GeV/c



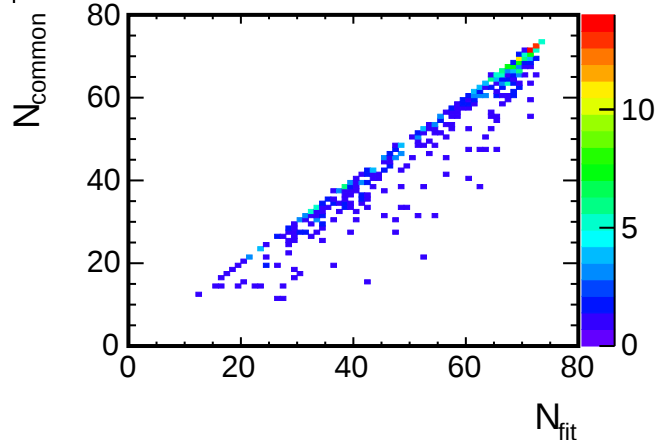
$< p_T < 1.0$ GeV/c



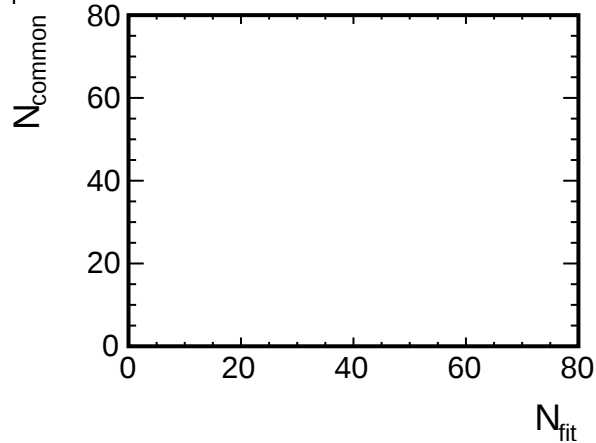
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

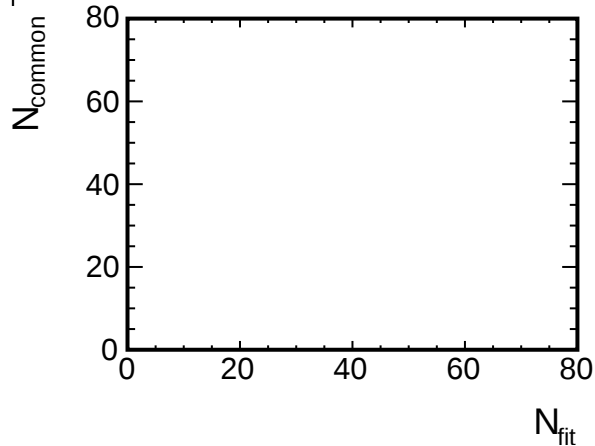


$< p_T < 2.5$ GeV/c

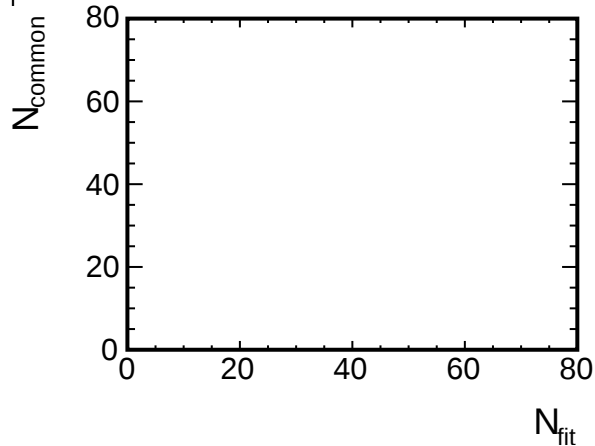


N_{common} vs N_{hit} , p_T dependence (Embedding:proton, Real:proton)

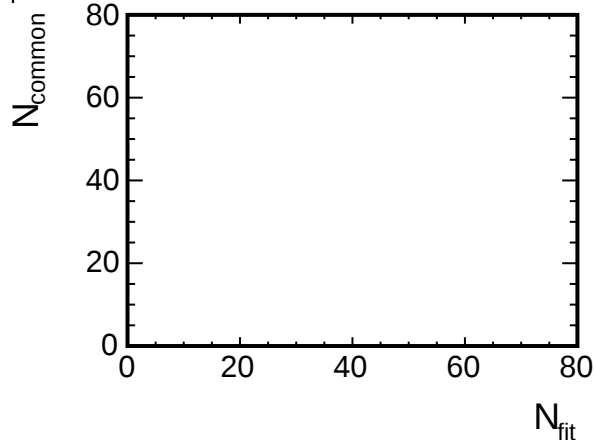
$< p_T < 3.0$ GeV/c



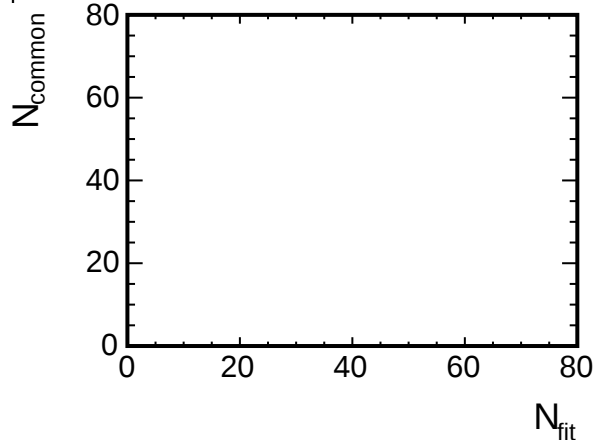
$< p_T < 3.5$ GeV/c



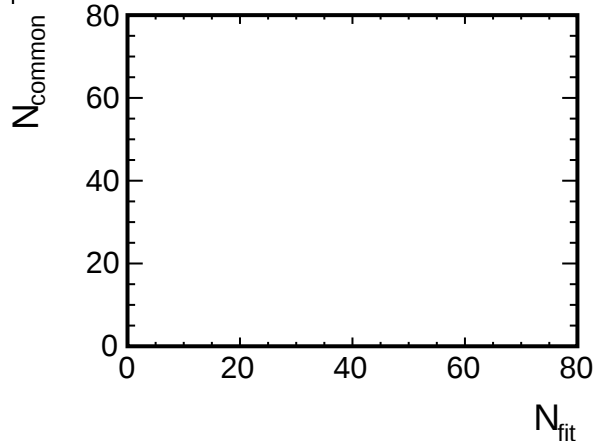
$< p_T < 4.0$ GeV/c



$< p_T < 4.5$ GeV/c

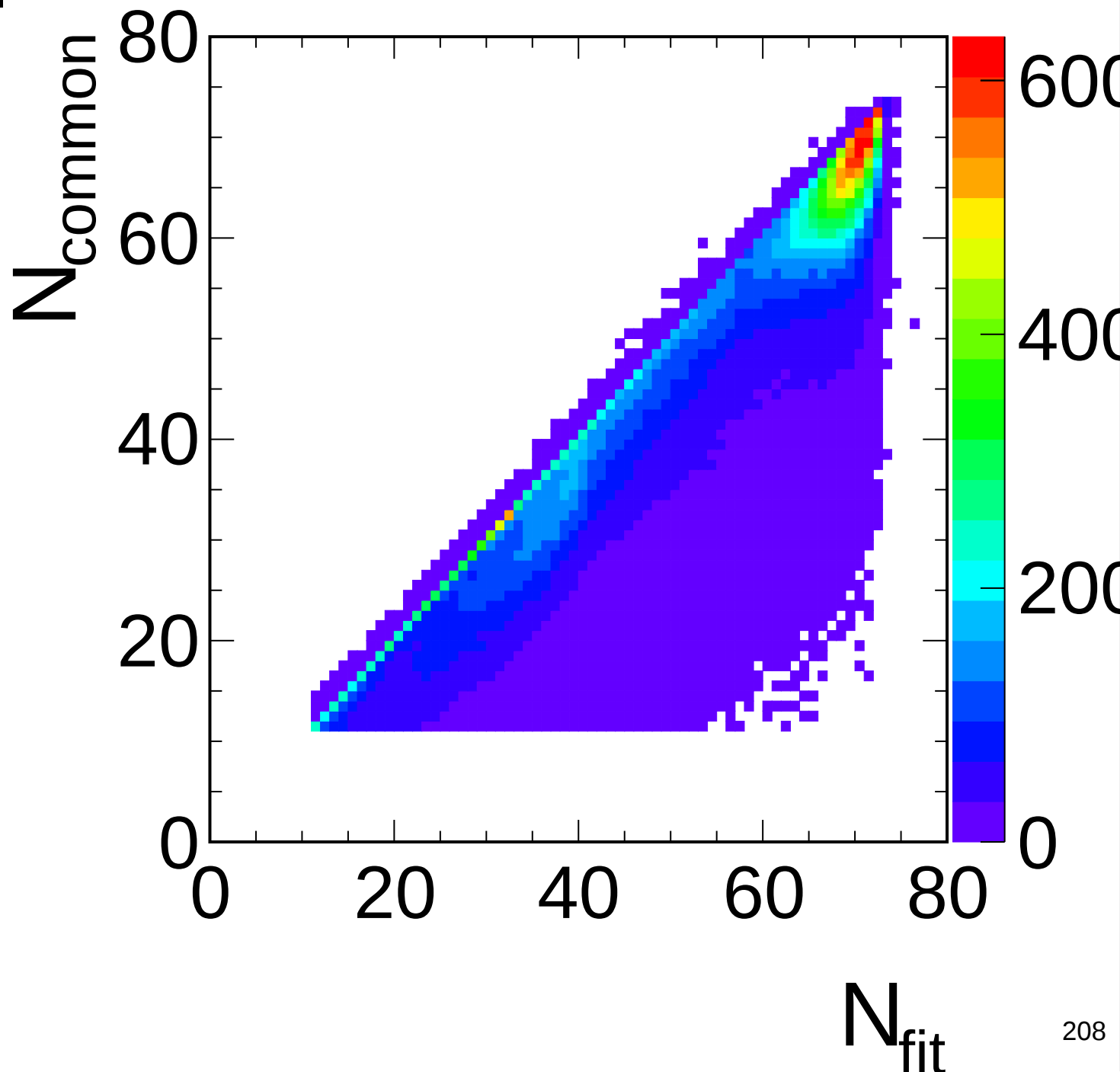


$< p_T < 5.0$ GeV/c



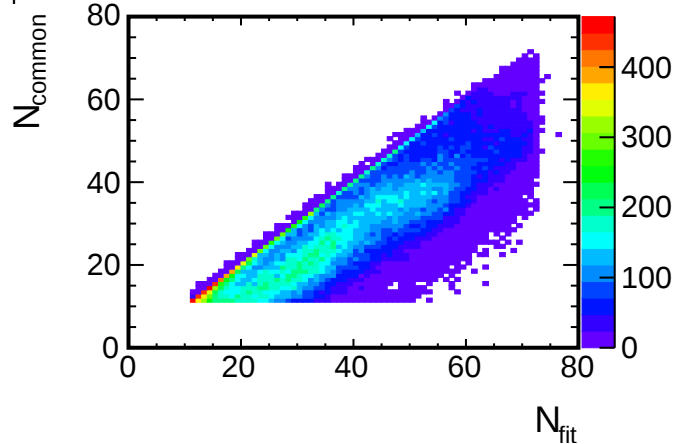
N_{common} vs N_{hit} (Embedding:He3, Real:He3)

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

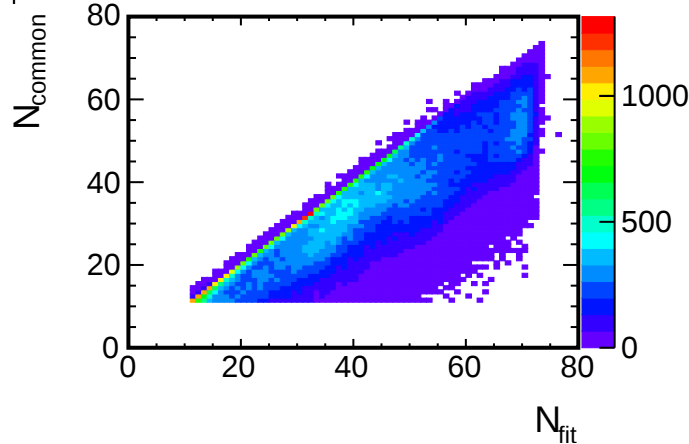


N_{common} vs N_{hit} , p_T dependence (Embedding:He3, Real:He3)

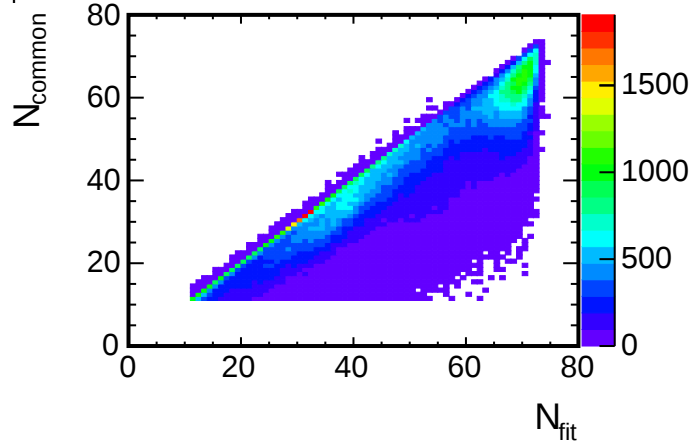
$< p_T < 0.5$ GeV/c



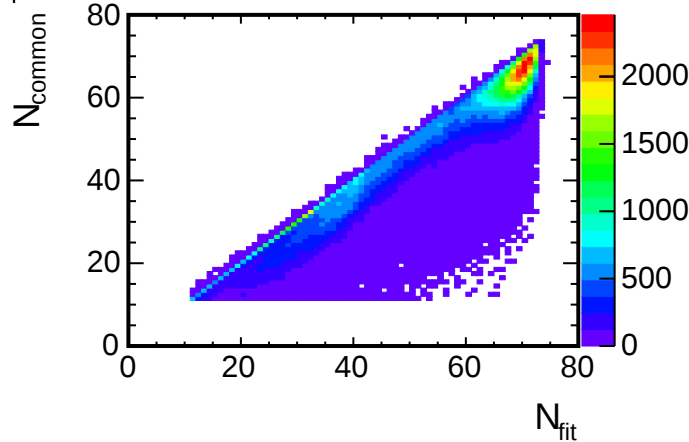
$< p_T < 1.0$ GeV/c



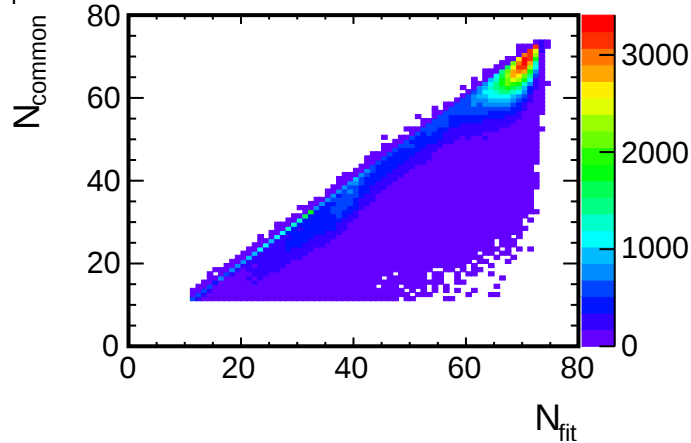
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

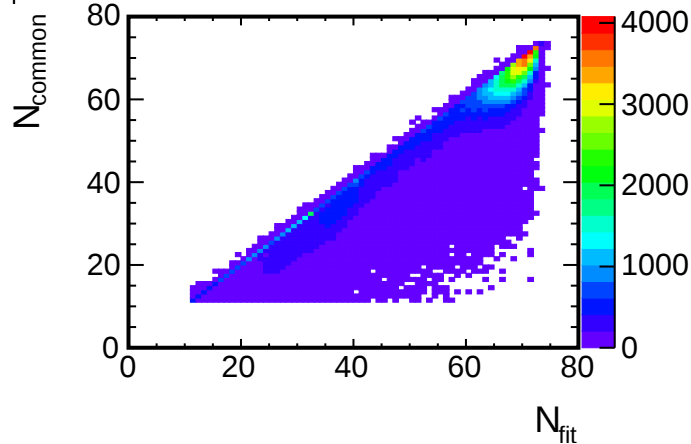


$< p_T < 2.5$ GeV/c

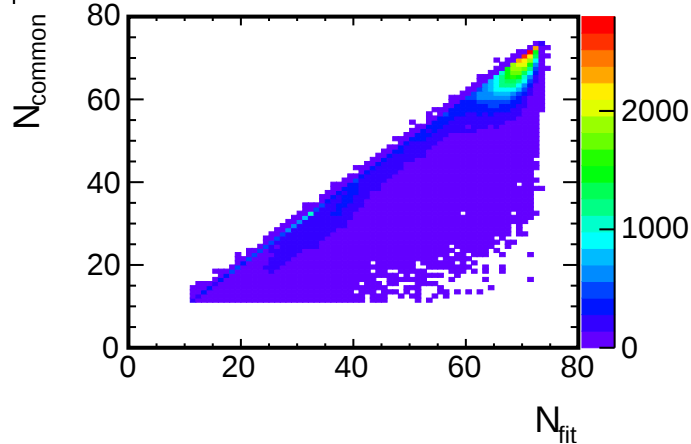


N_{common} vs N_{hit} , p_T dependence (Embedding:He3, Real:He3)

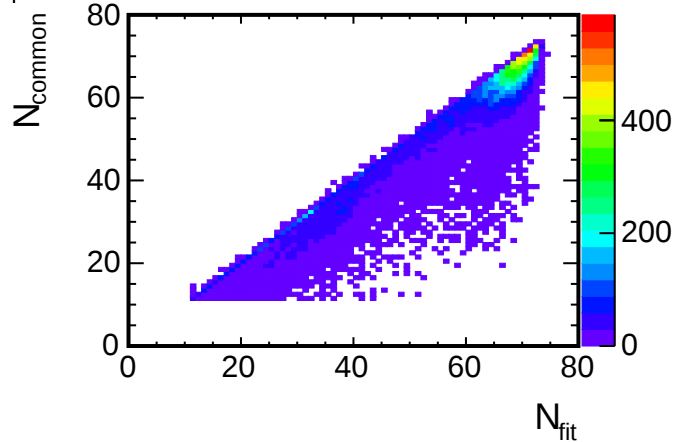
$< p_T < 3.0$ GeV/c



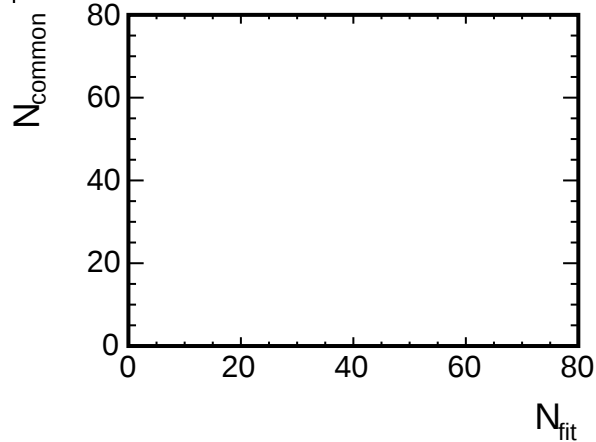
$< p_T < 3.5$ GeV/c



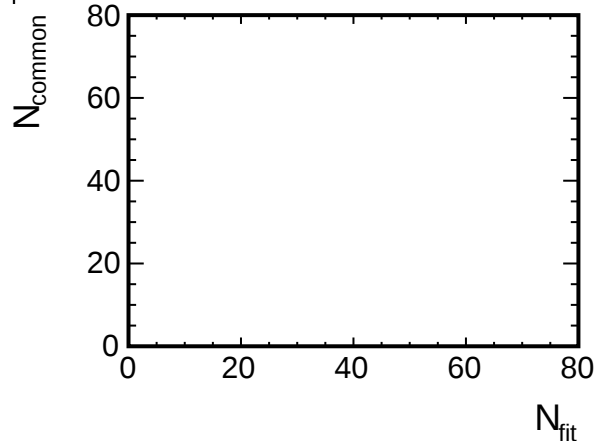
$< p_T < 4.0$ GeV/c



$< p_T < 4.5$ GeV/c

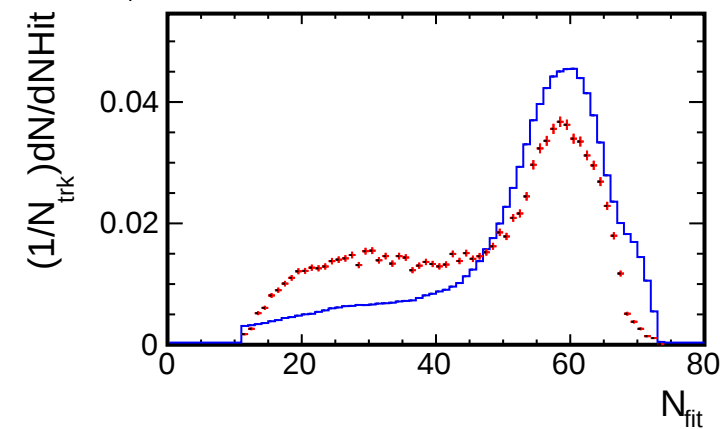


$< p_T < 5.0$ GeV/c

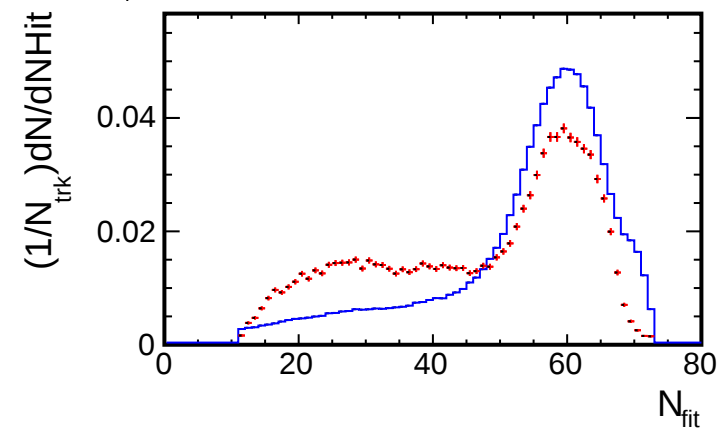


NHit distribution for (p_T , η) slices

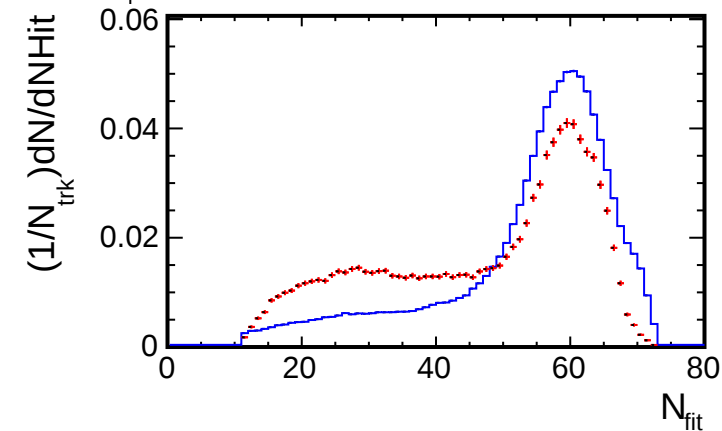
1.8, $0.1 < p_T < 0.5$ (GeV/c)



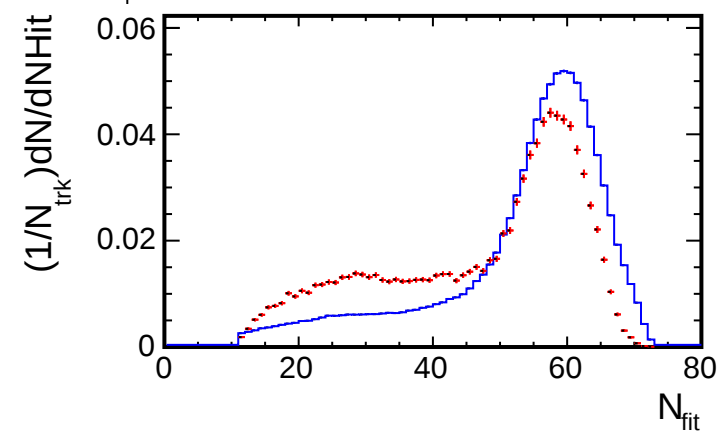
1.6, $0.1 < p_T < 0.5$ (GeV/c)



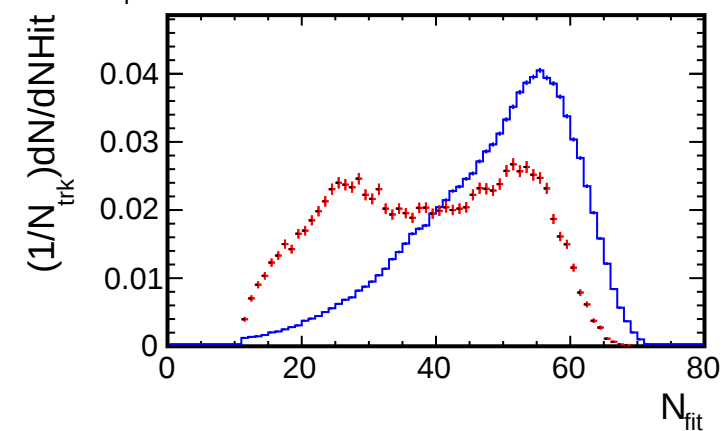
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



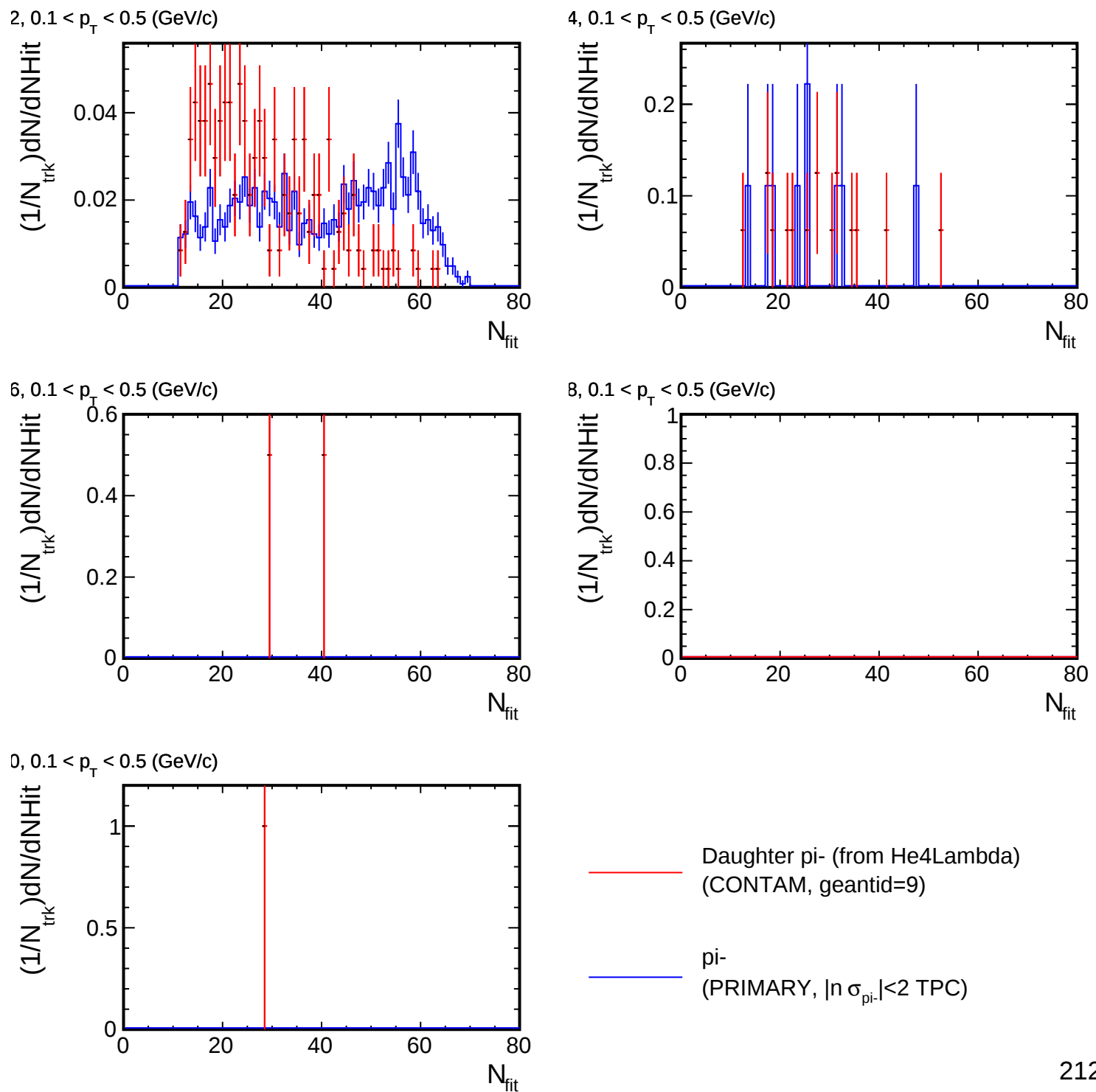
1.0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

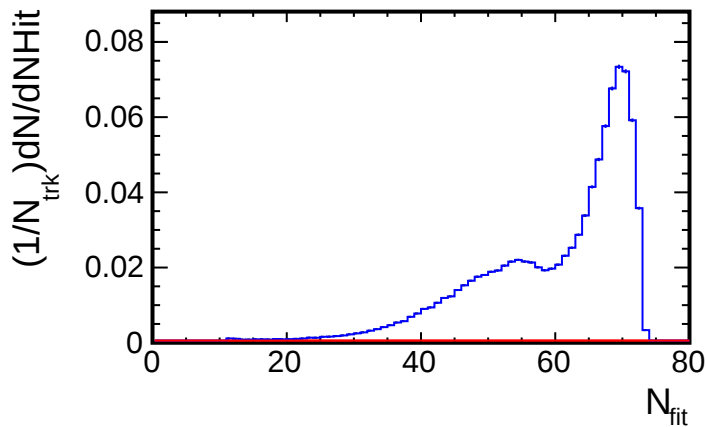
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

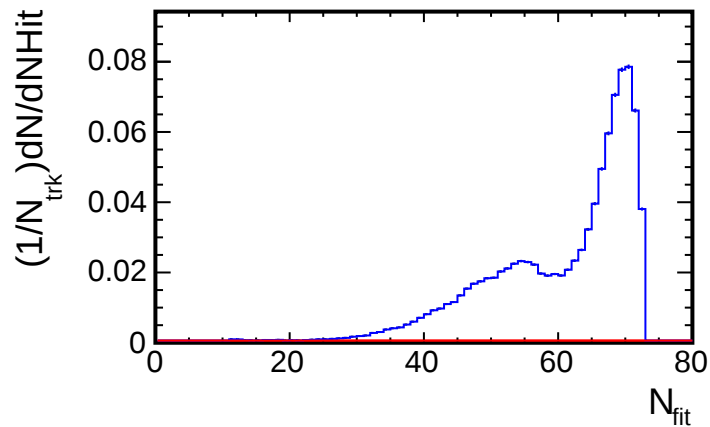


NHit distribution for (p_T , η) slices

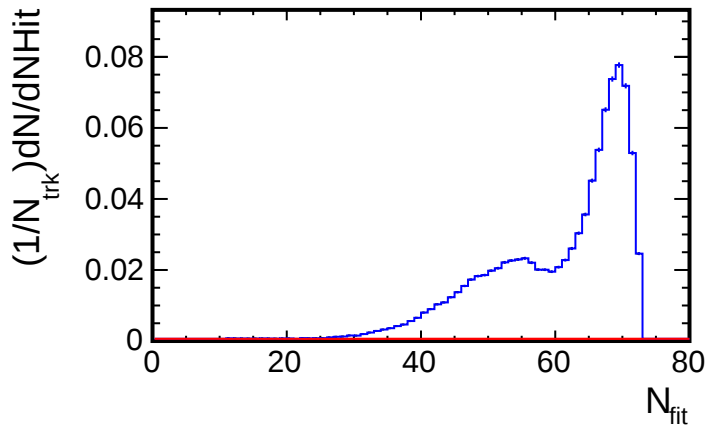
1.8, $0.5 < p_T < 1.0$ (GeV/c)



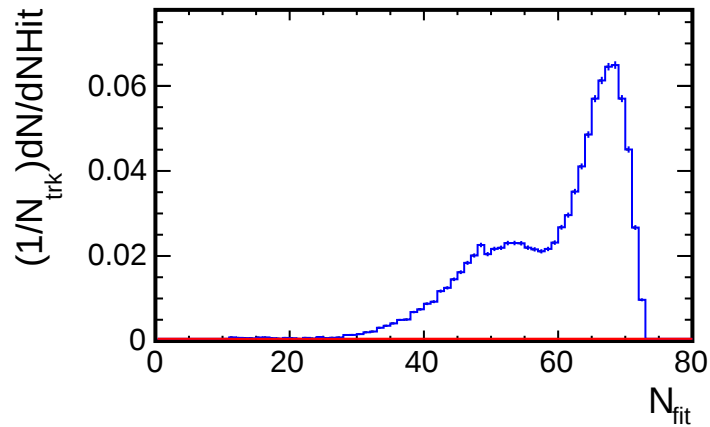
1.6, $0.5 < p_T < 1.0$ (GeV/c)



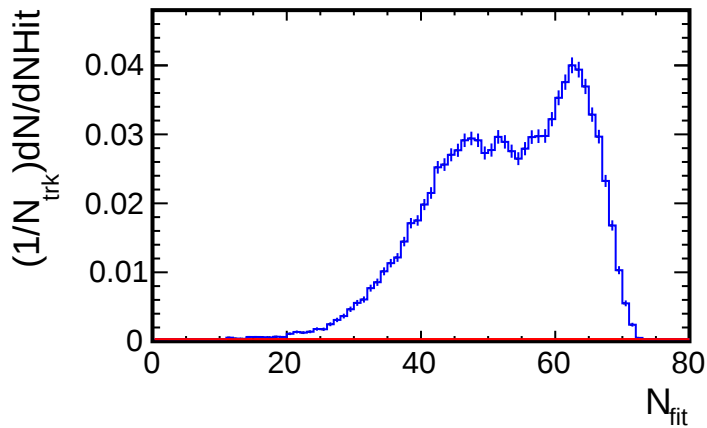
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



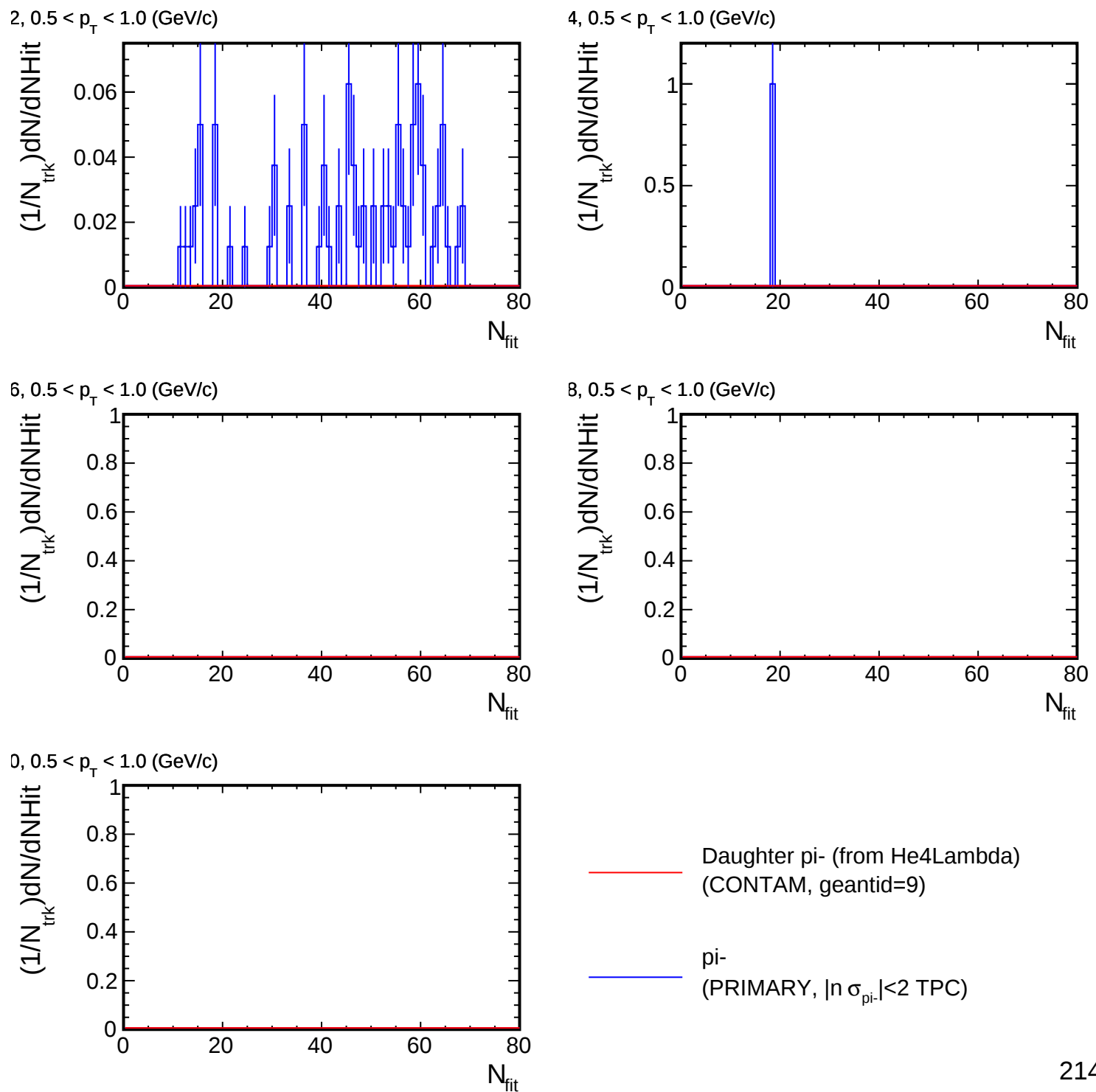
1.0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

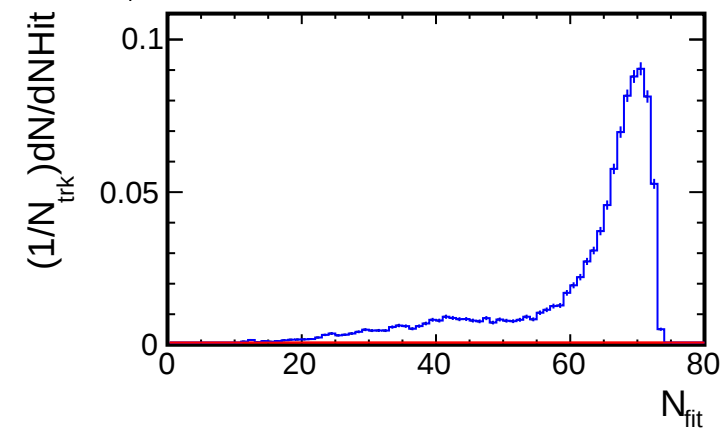
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

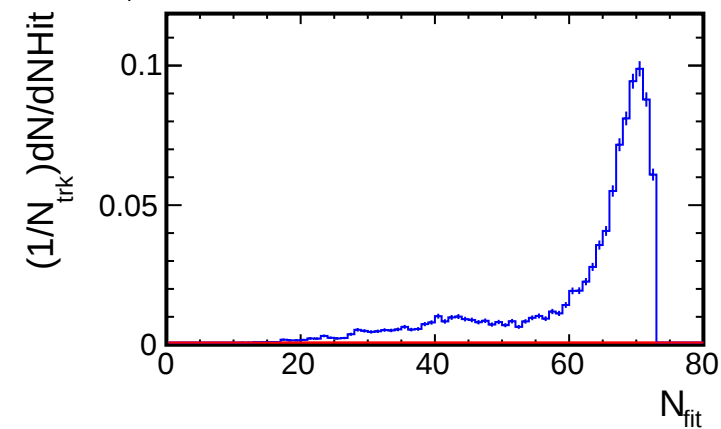


NHit distribution for (p_T , η) slices

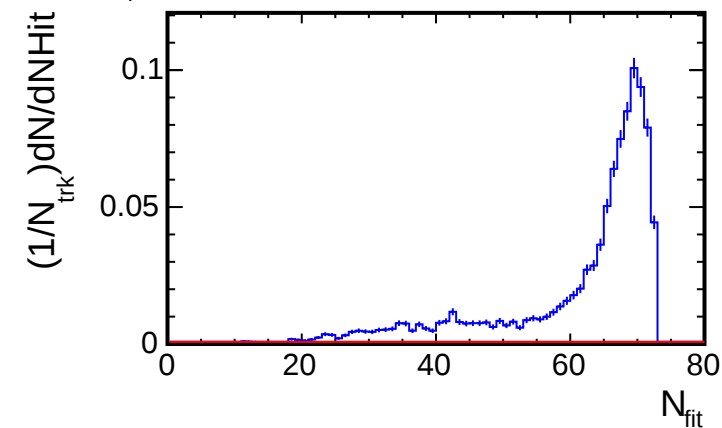
1.8, $1.0 < p_T < 1.5$ (GeV/c)



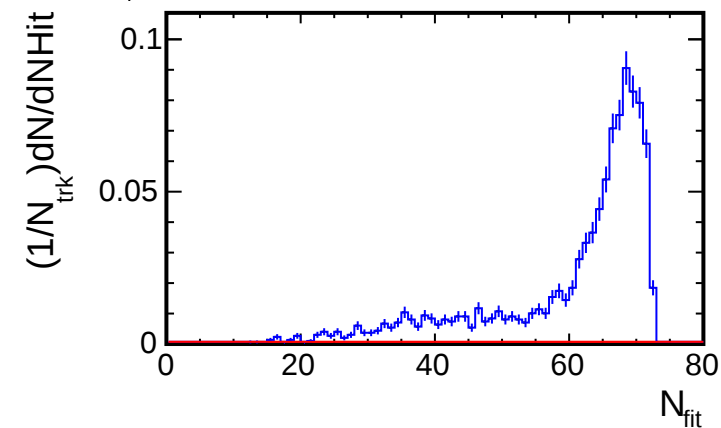
1.6, $1.0 < p_T < 1.5$ (GeV/c)



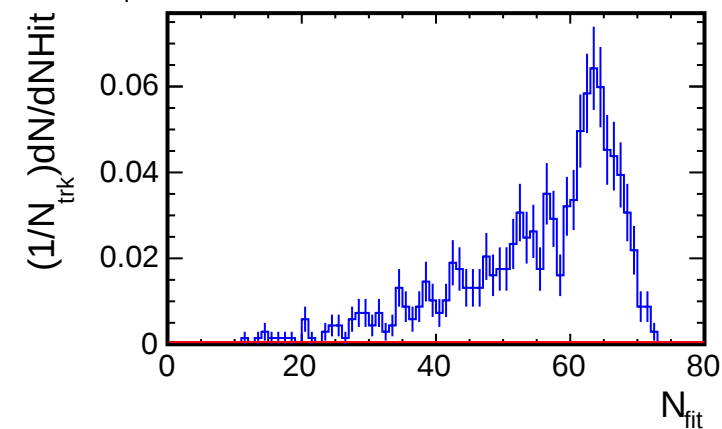
1.4, $1.0 < p_T < 1.5$ (GeV/c)



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



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

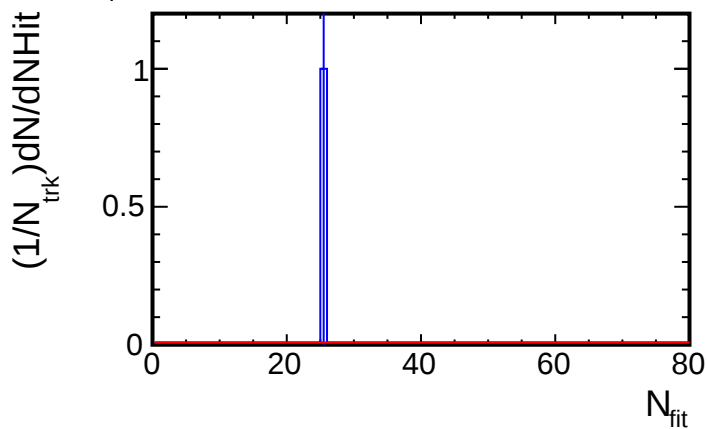


— Daughter π^- (from He4Lambda)
(CONTAM, geantid=9)

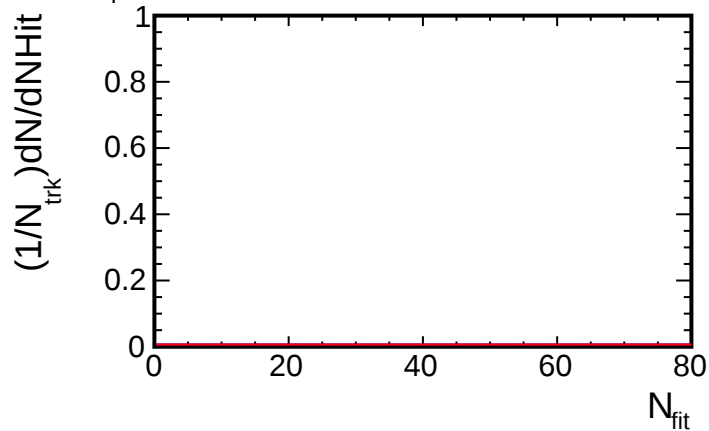
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

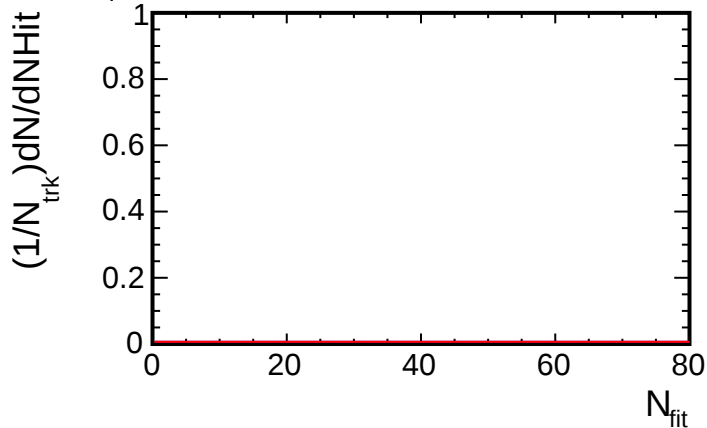
2, $1.0 < p_T < 1.5$ (GeV/c)



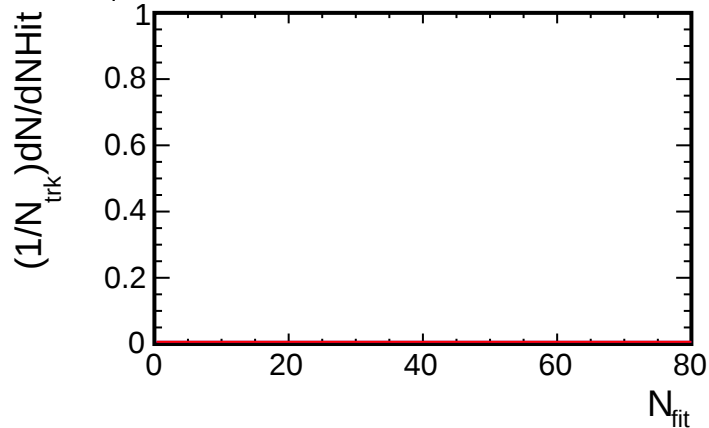
4, $1.0 < p_T < 1.5$ (GeV/c)



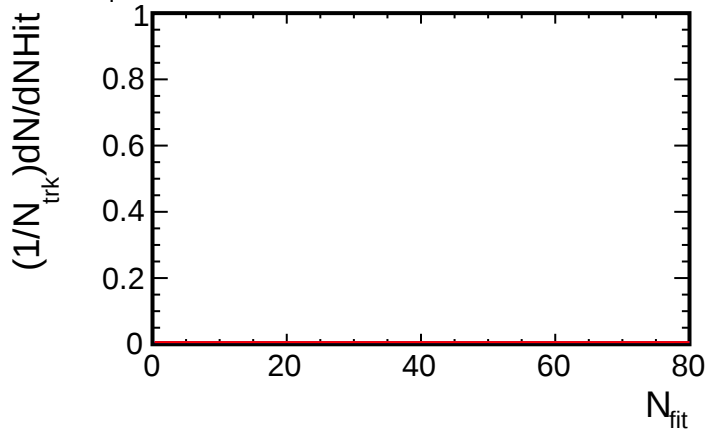
6, $1.0 < p_T < 1.5$ (GeV/c)



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



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

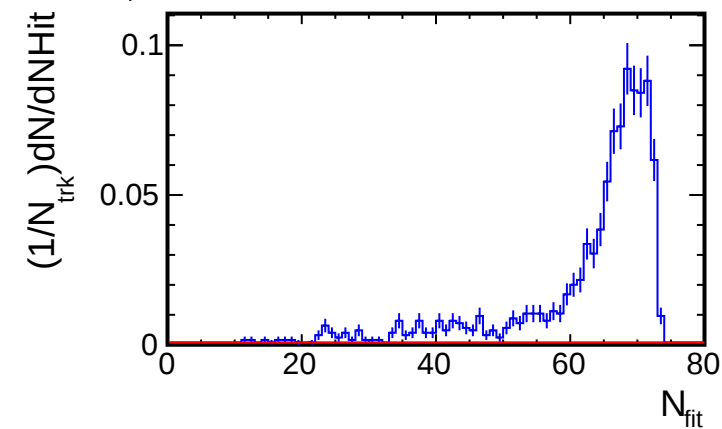


— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

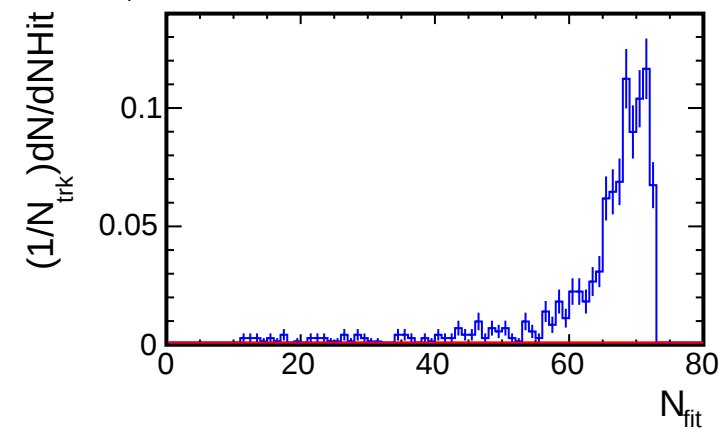
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

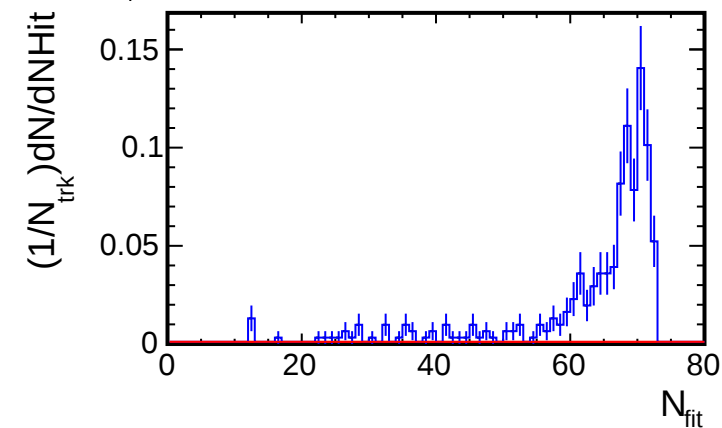
1.8, $1.5 < p_T < 2.0$ (GeV/c)



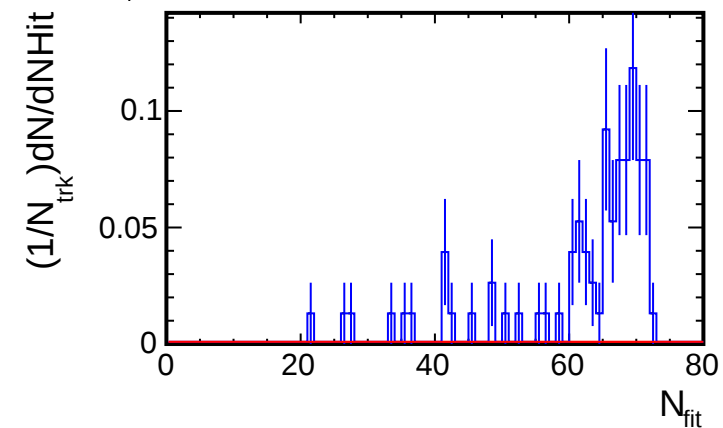
1.6, $1.5 < p_T < 2.0$ (GeV/c)



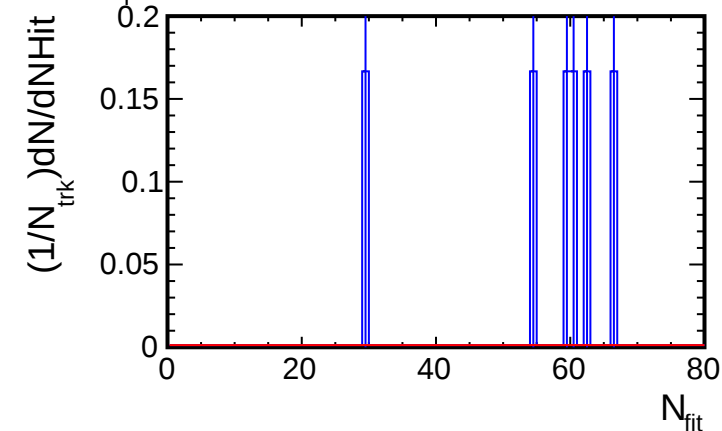
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



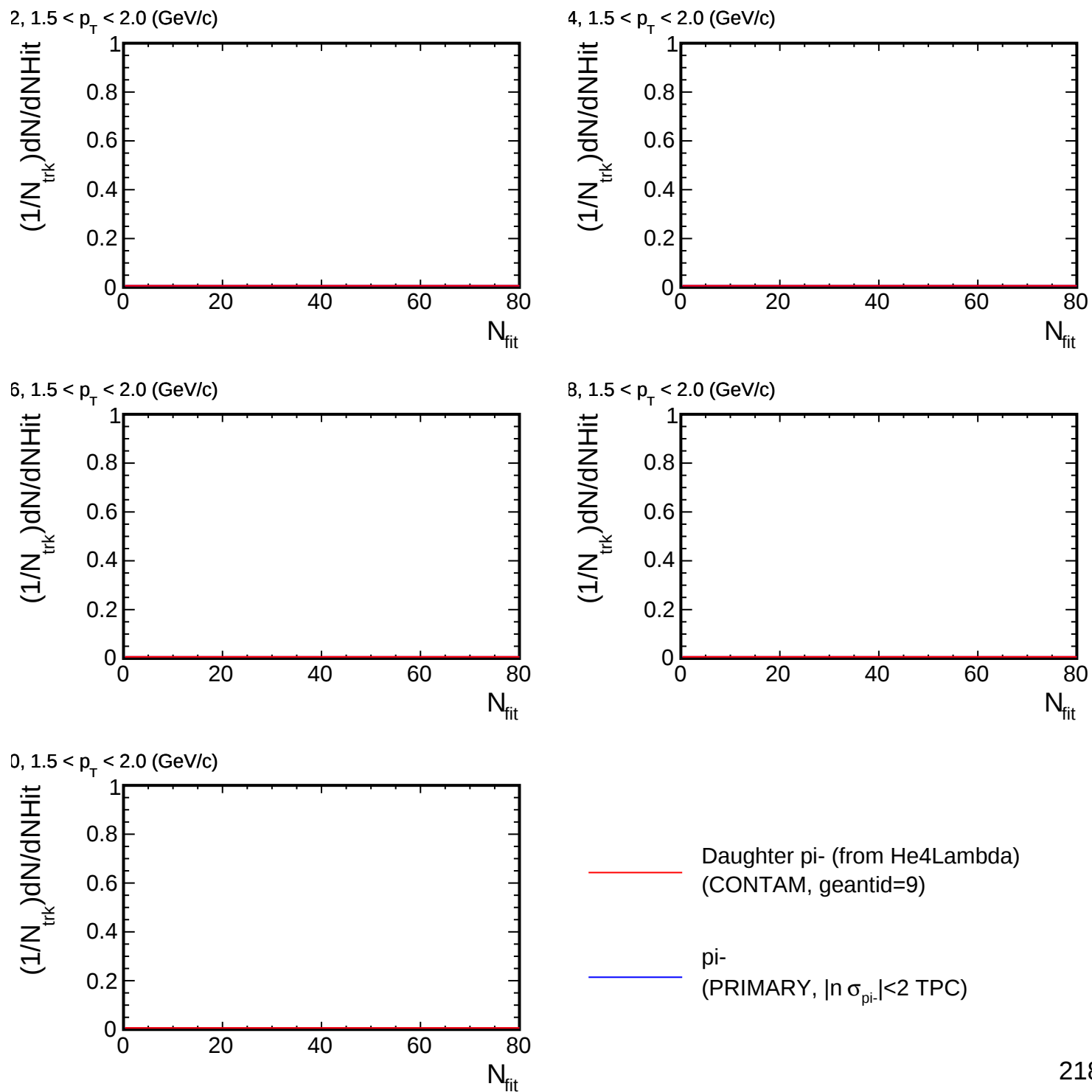
1.0, $1.5 < p_T < 2.0$ (GeV/c)



— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

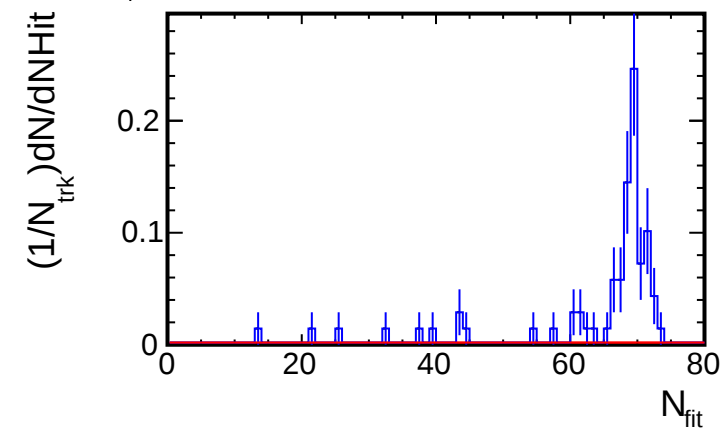
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

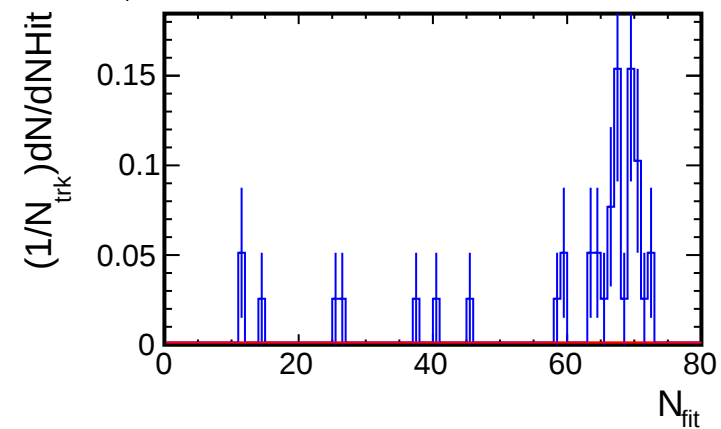


NHit distribution for (p_T , η) slices

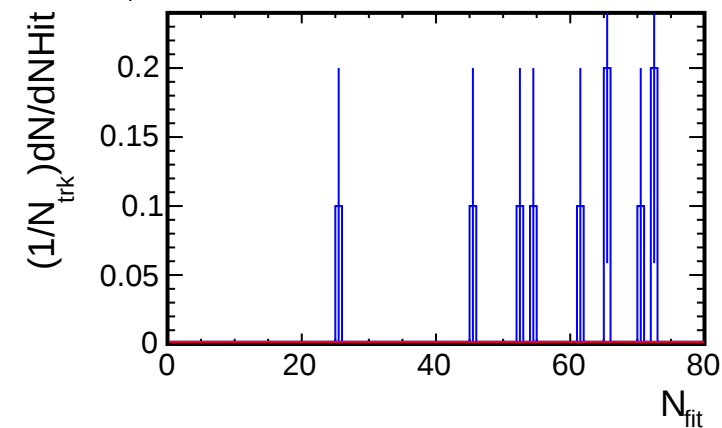
1.8, $2.0 < p_T < 2.5$ (GeV/c)



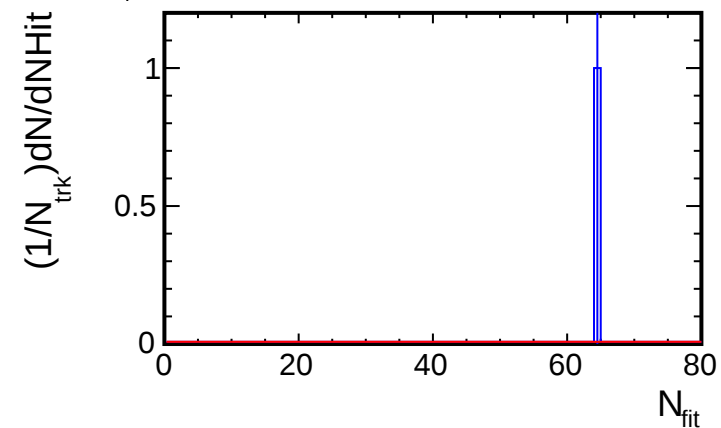
1.6, $2.0 < p_T < 2.5$ (GeV/c)



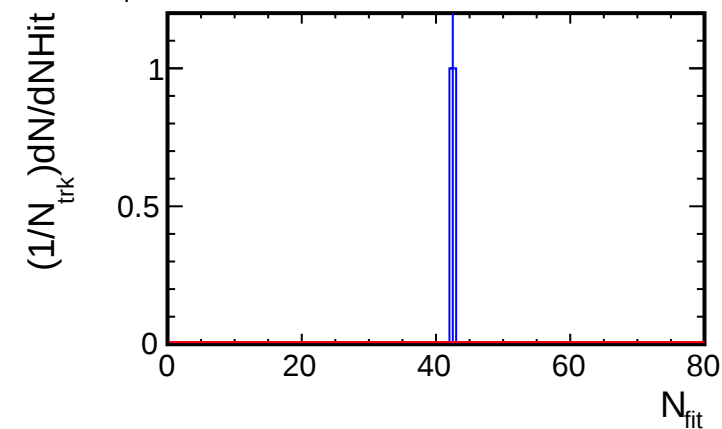
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



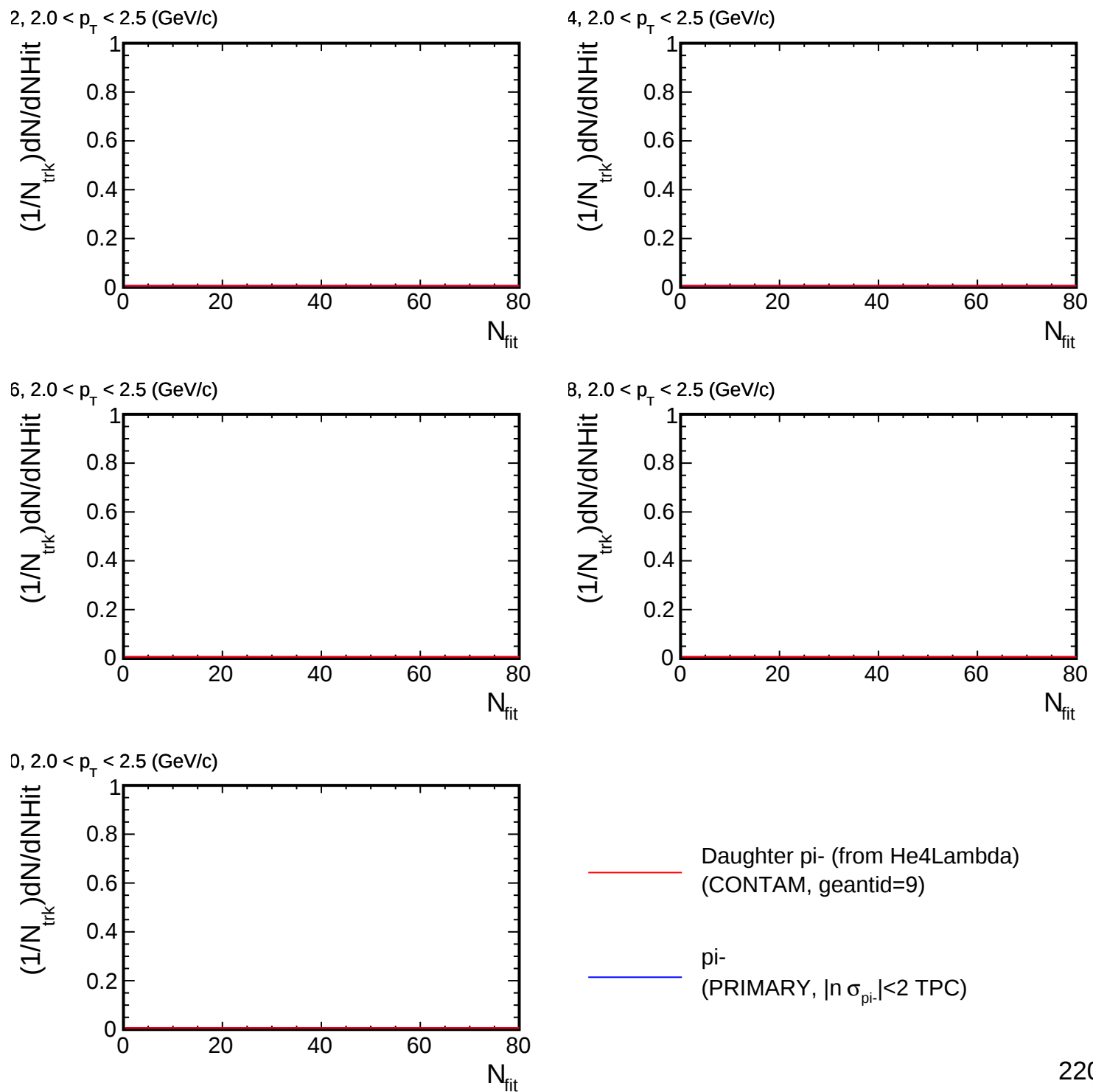
1.0, $2.0 < p_T < 2.5$ (GeV/c)



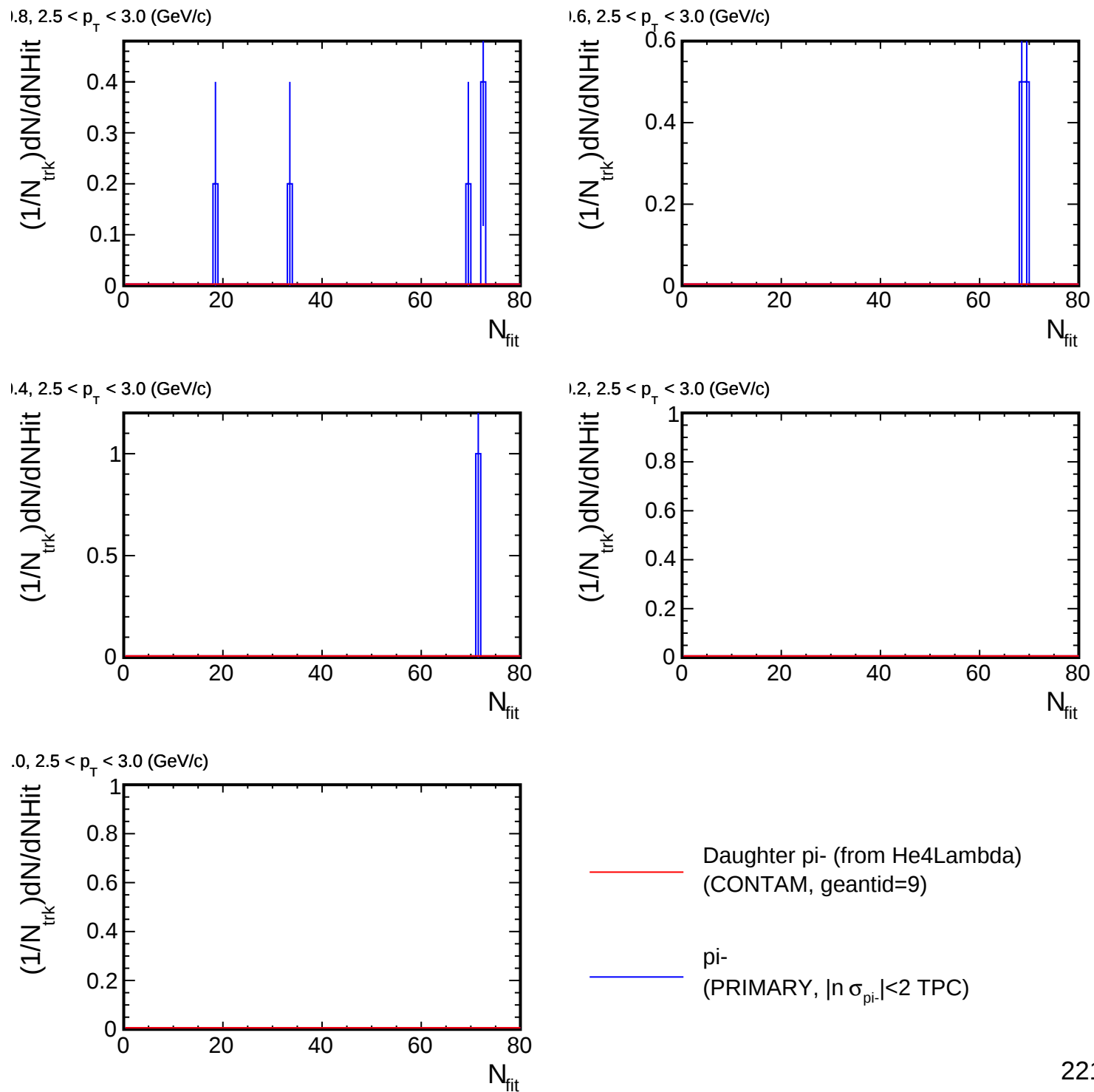
— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

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

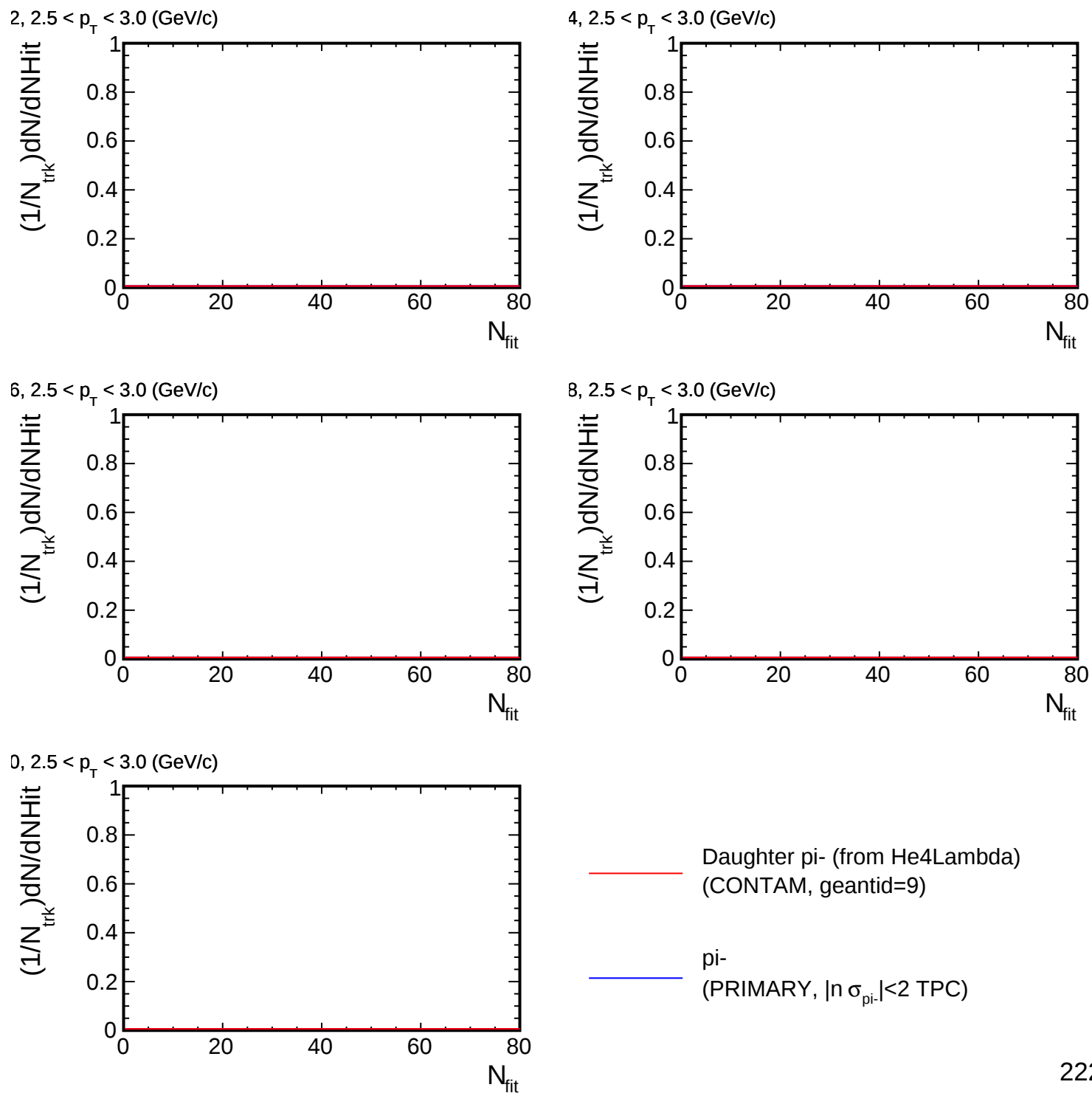
NHit distribution for (p_T , η) slices



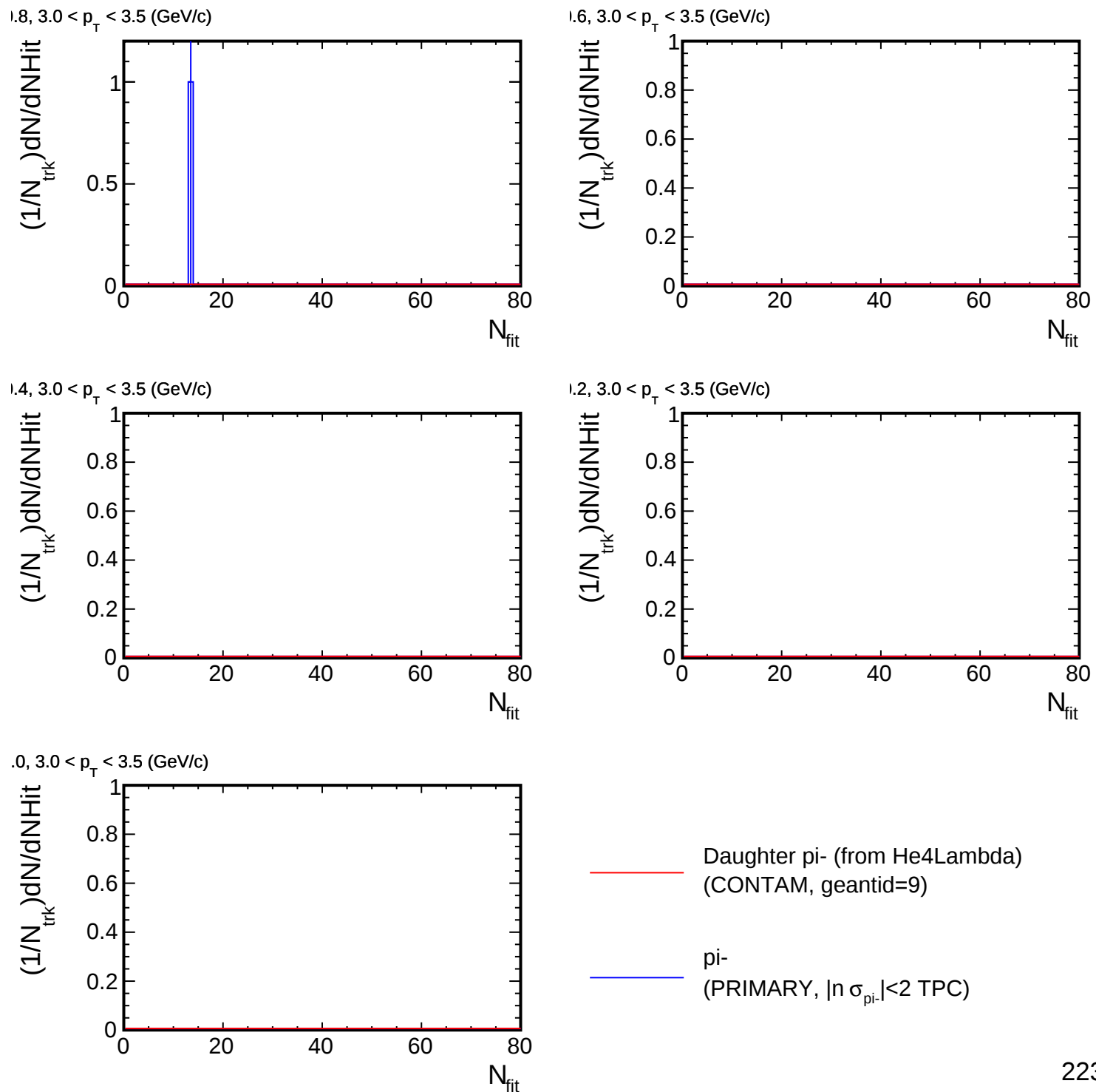
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

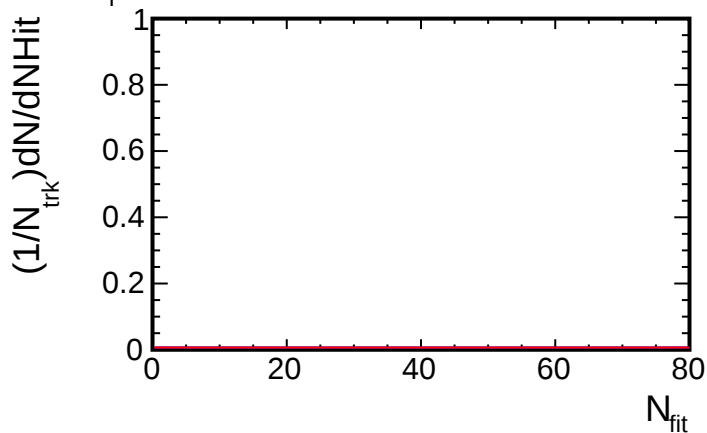


NHit distribution for (p_T , η) slices

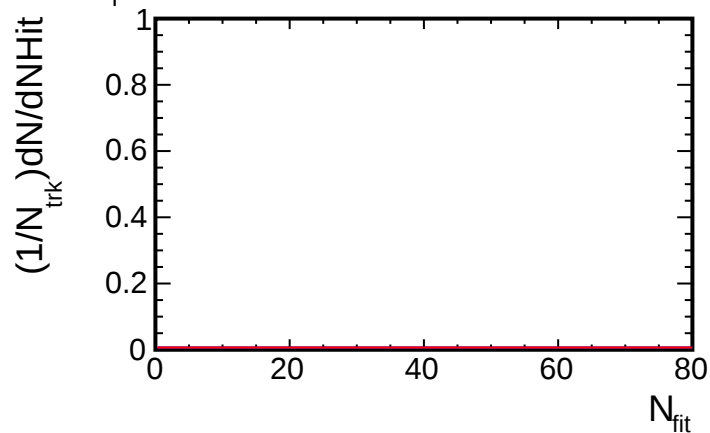


NHit distribution for (p_T , η) slices

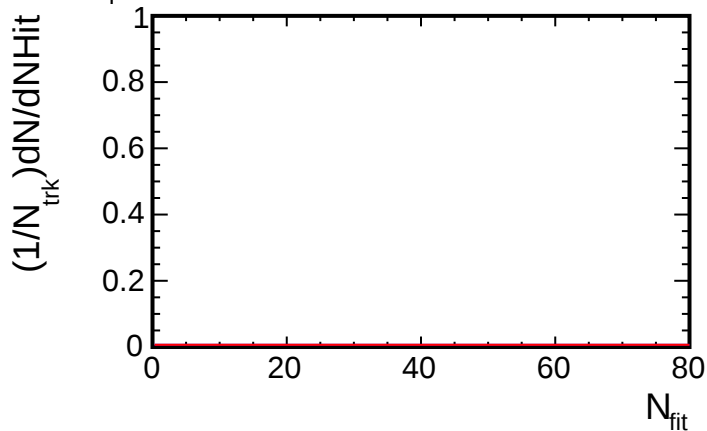
2, $3.0 < p_T < 3.5$ (GeV/c)



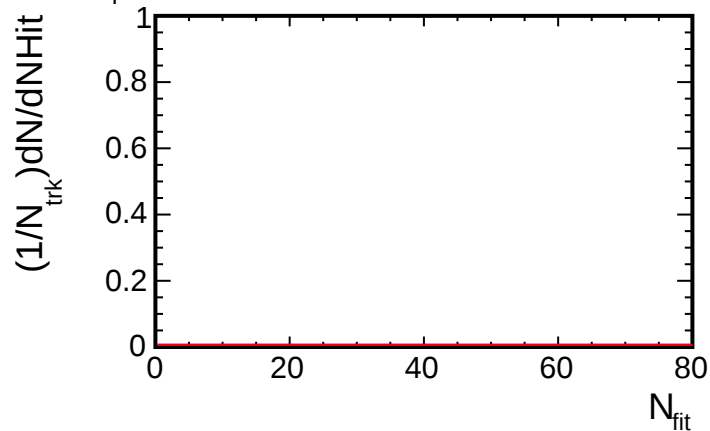
4, $3.0 < p_T < 3.5$ (GeV/c)



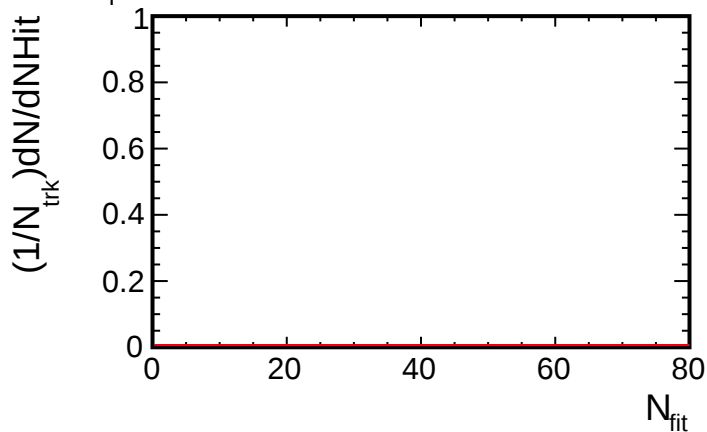
6, $3.0 < p_T < 3.5$ (GeV/c)



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



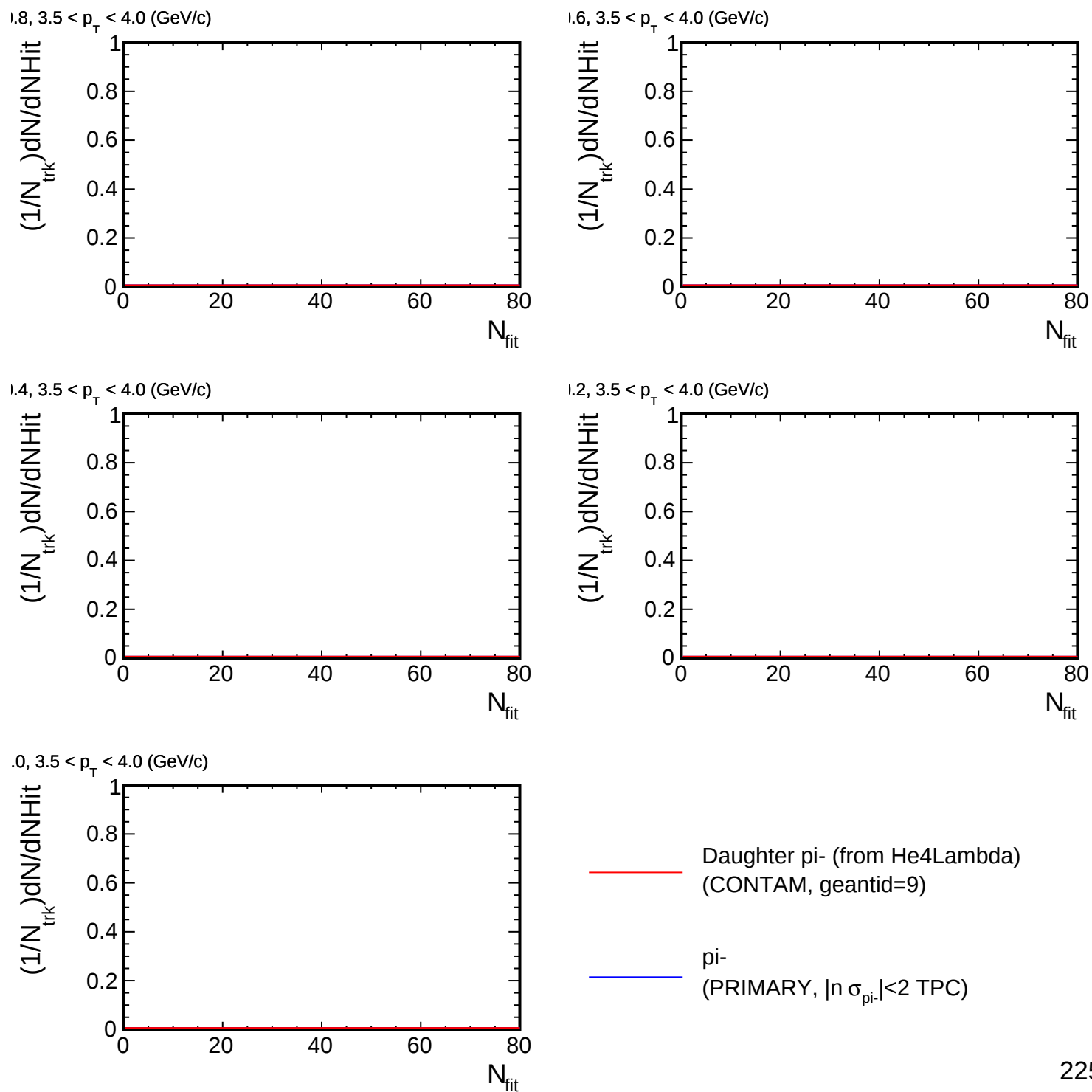
0, $3.0 < p_T < 3.5$ (GeV/c)



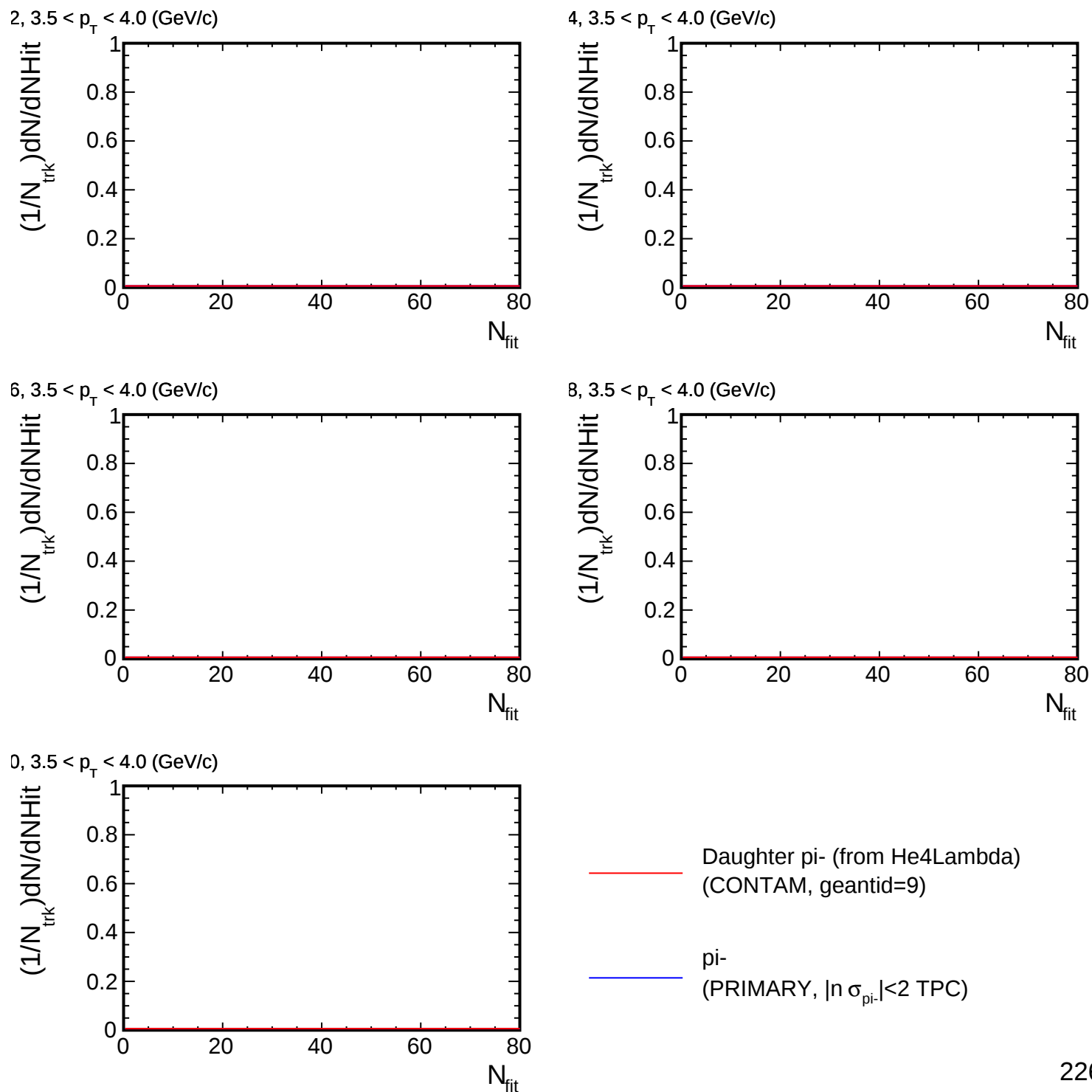
— Daughter pi- (from He4Lambda)
(CONTAM, geantid=9)

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

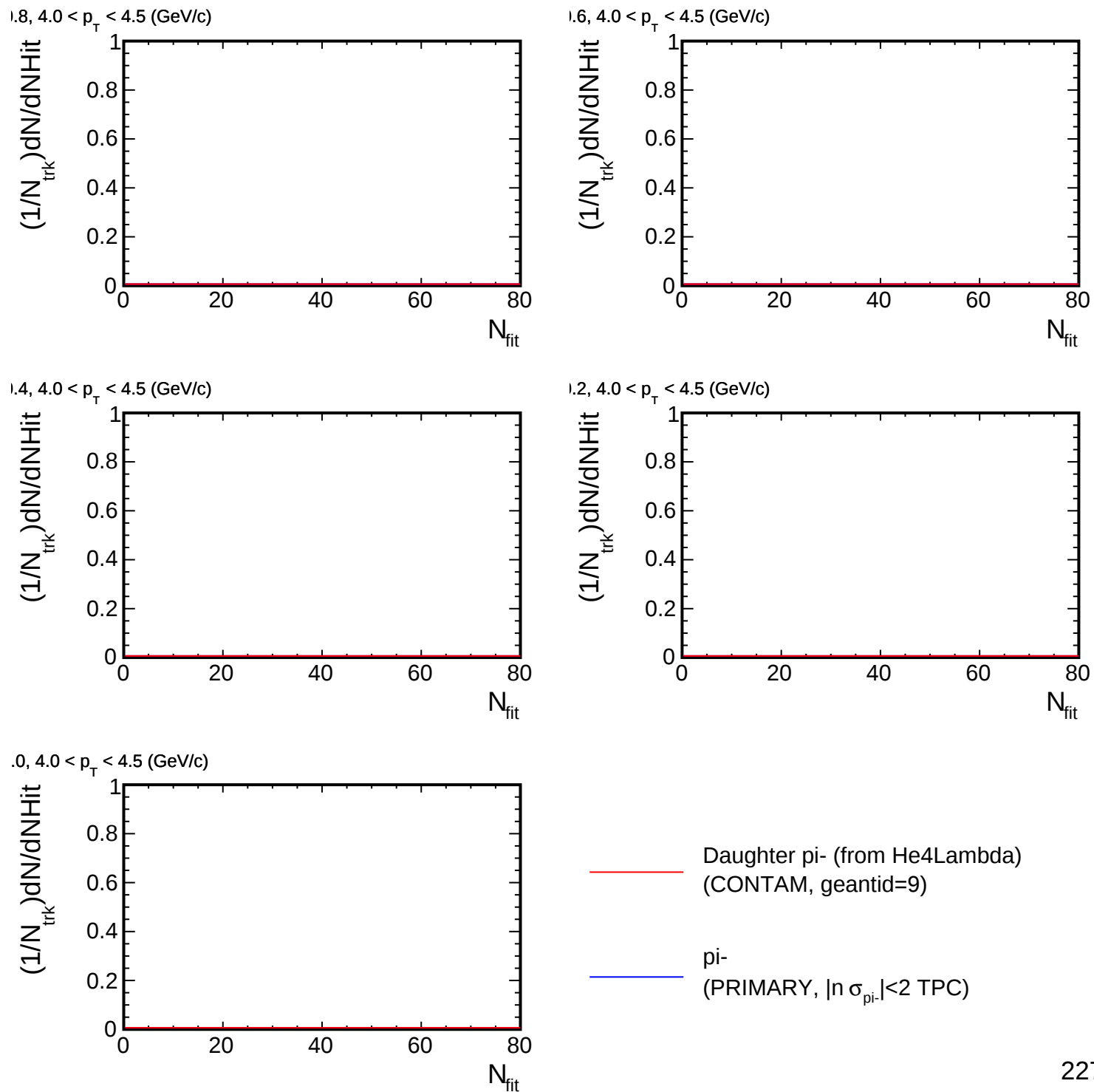
NHit distribution for (p_T , η) slices



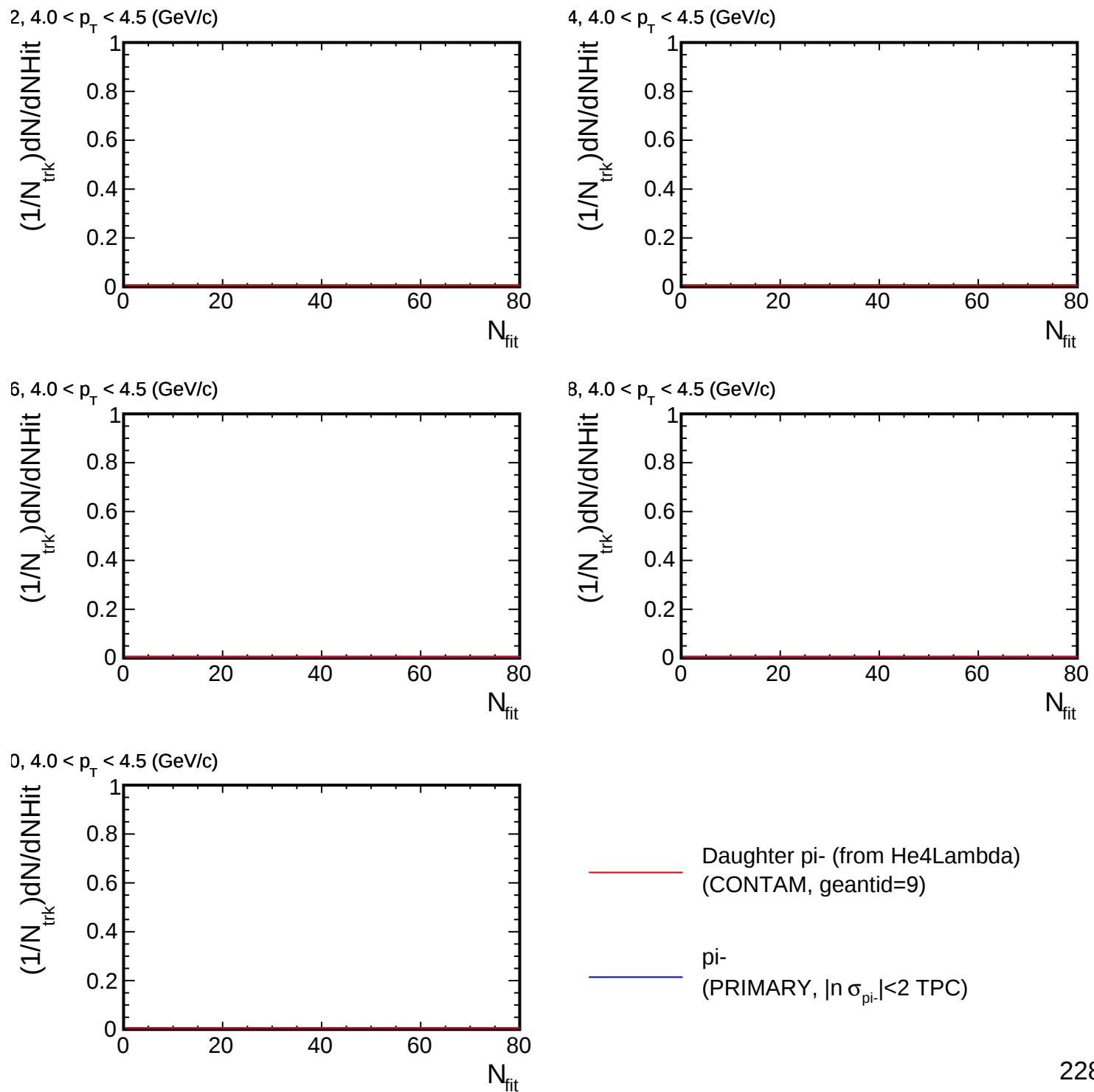
NHit distribution for (p_T , η) slices



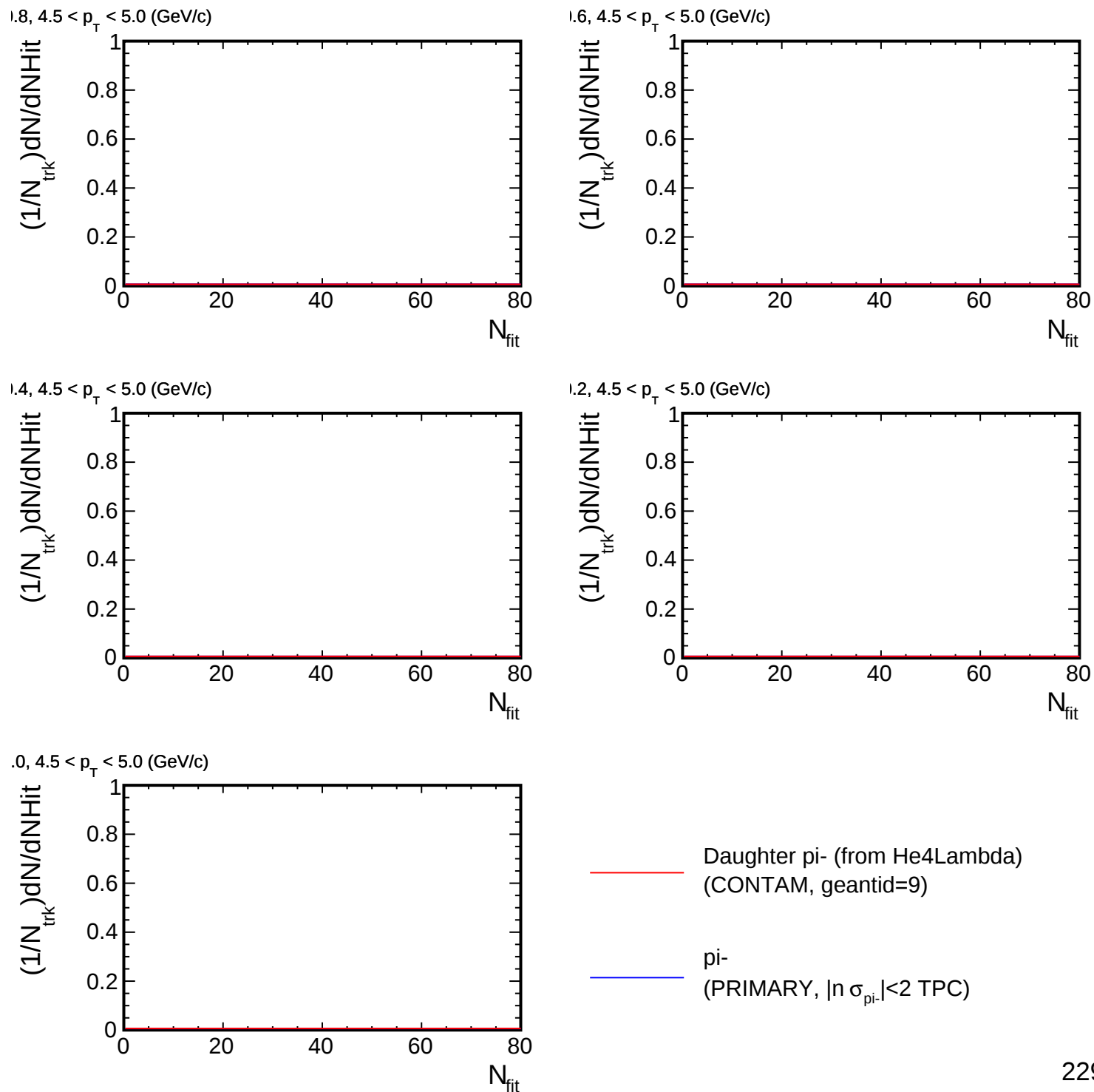
NHit distribution for (p_T , η) slices



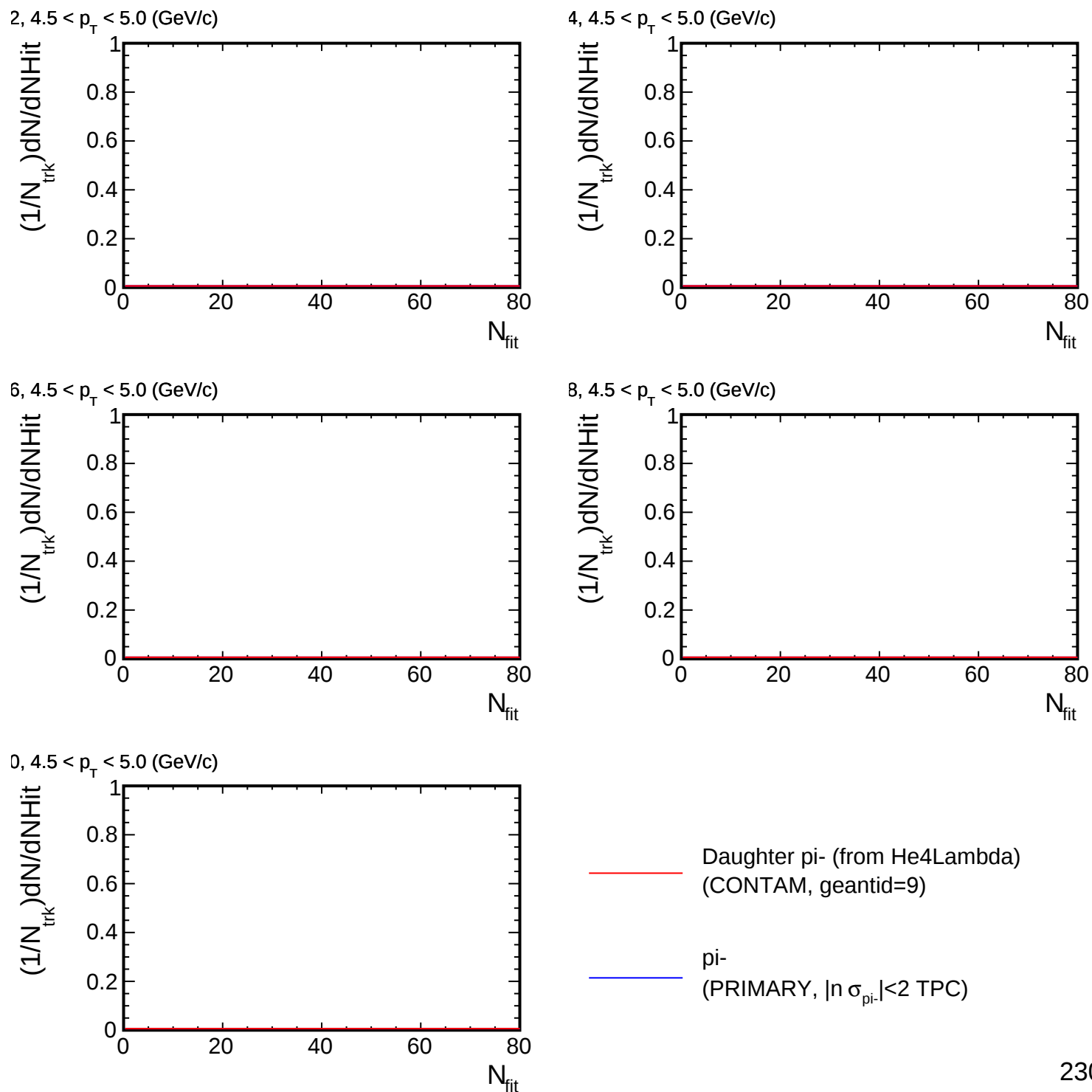
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

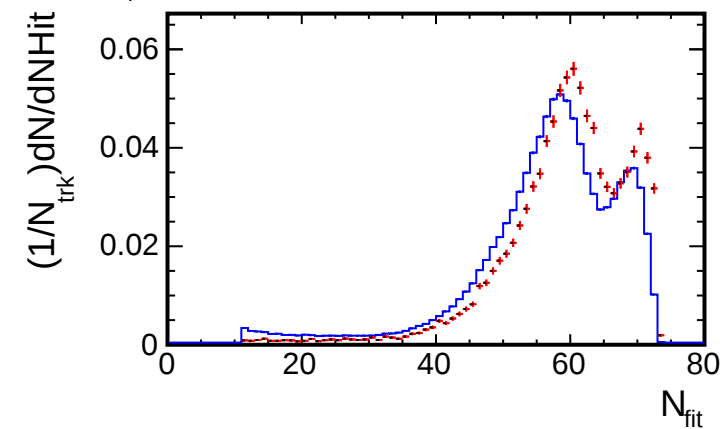


NHit distribution for (p_T , η) slices

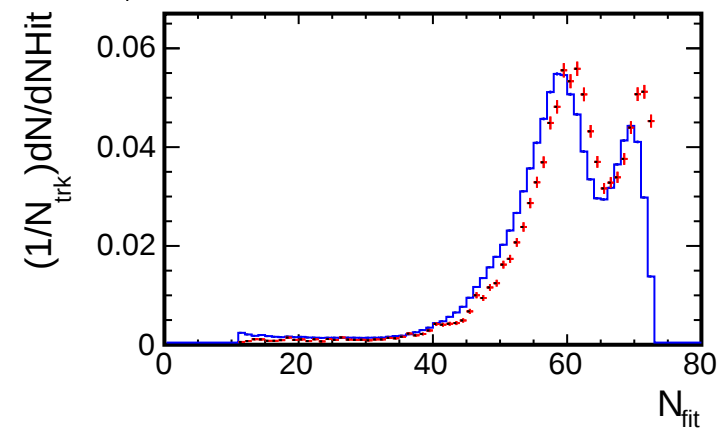


NHit distribution for (p_T , η) slices

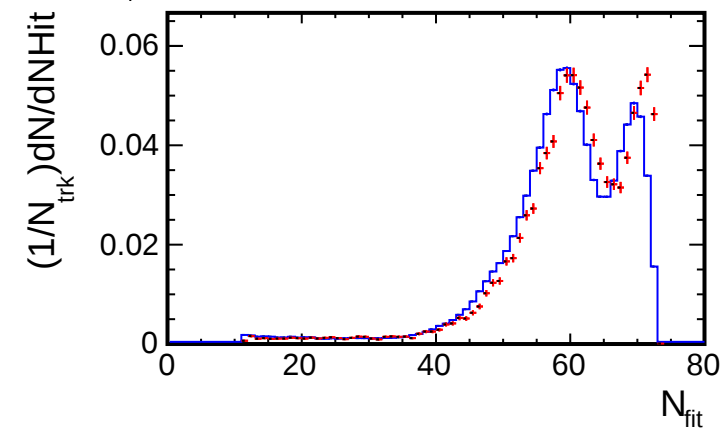
1.8, $0.1 < p_T < 0.5$ (GeV/c)



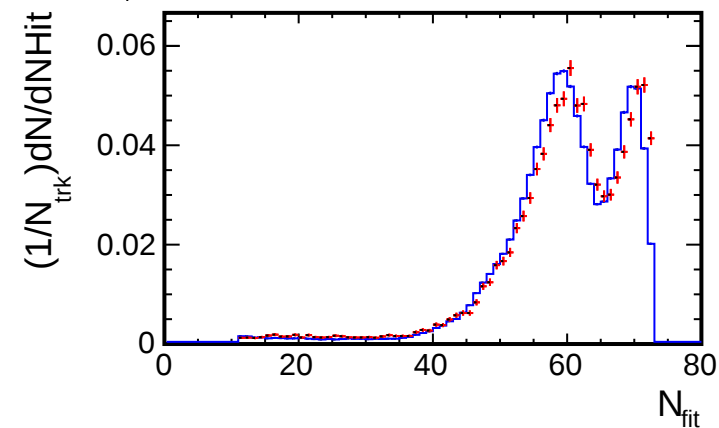
1.6, $0.1 < p_T < 0.5$ (GeV/c)



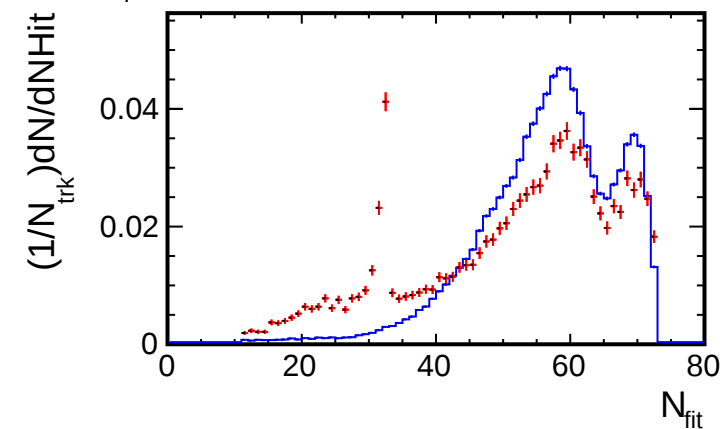
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



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

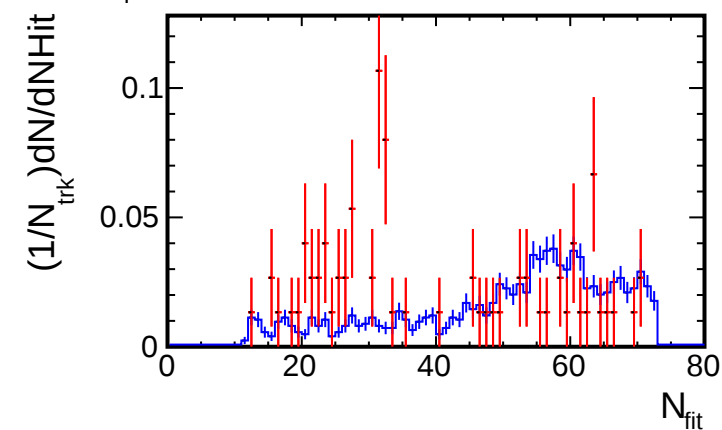


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

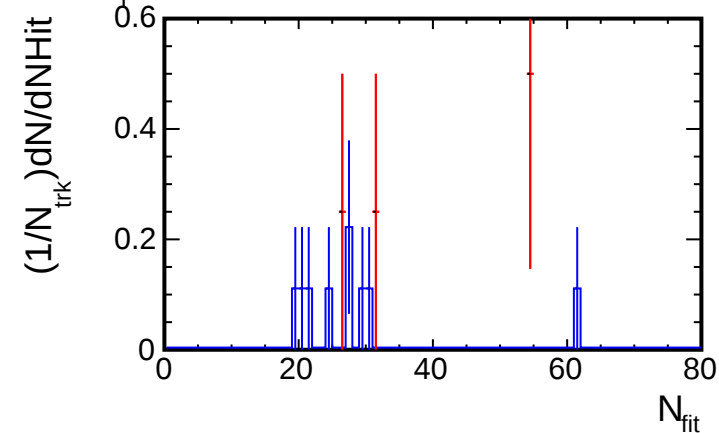
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

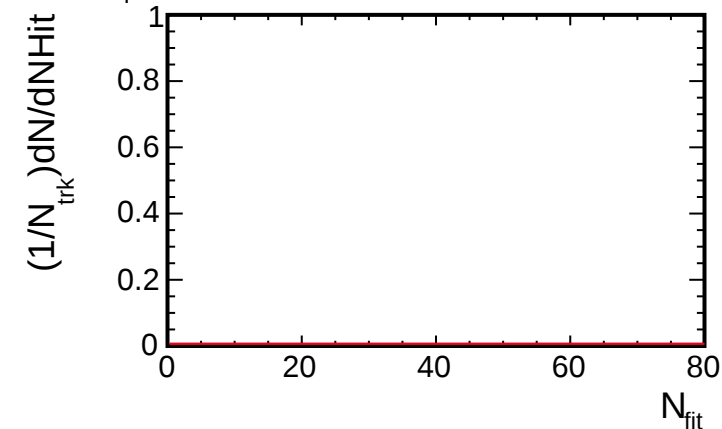
2, $0.1 < p_T < 0.5$ (GeV/c)



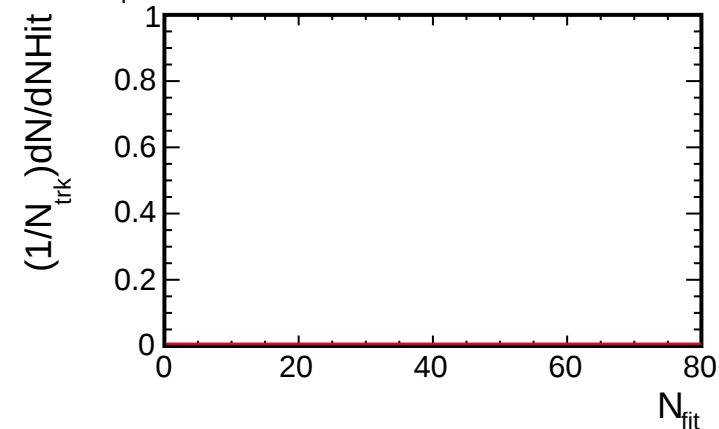
4, $0.1 < p_T < 0.5$ (GeV/c)



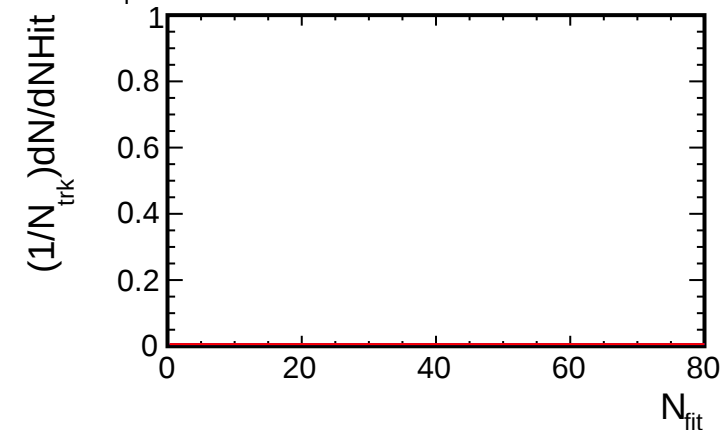
6, $0.1 < p_T < 0.5$ (GeV/c)



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



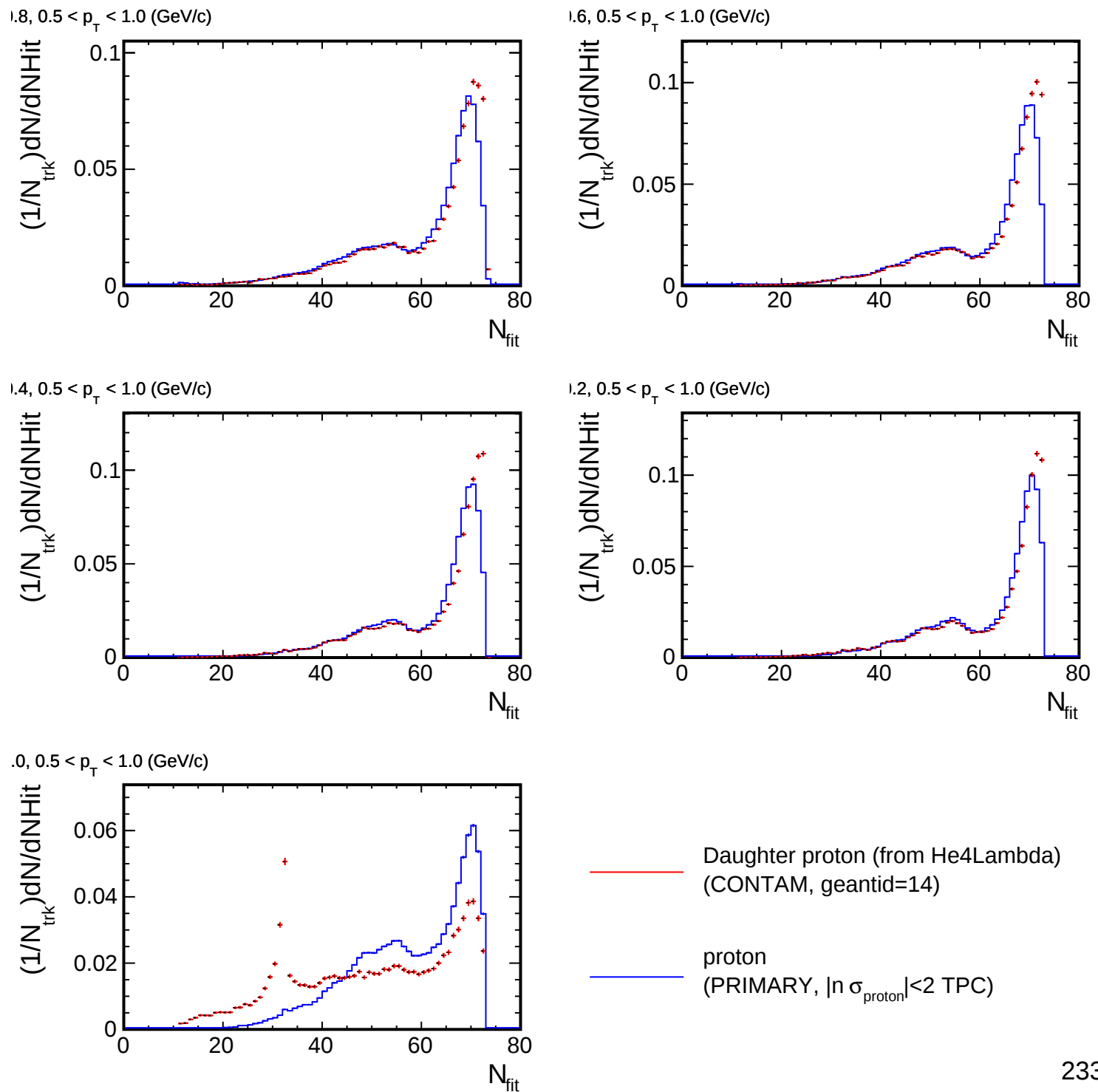
0, $0.1 < p_T < 0.5$ (GeV/c)



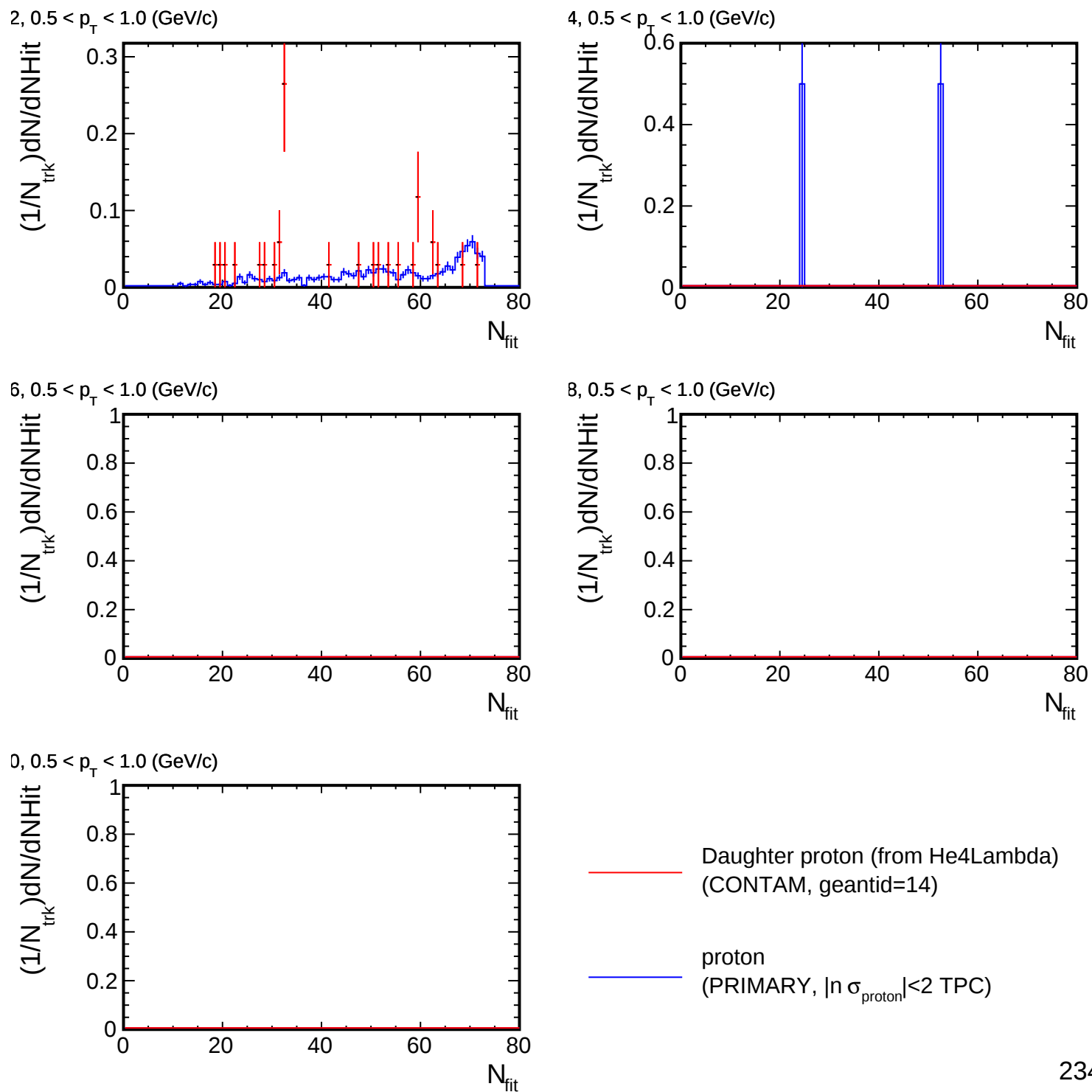
— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

NHit distribution for (p_T , η) slices

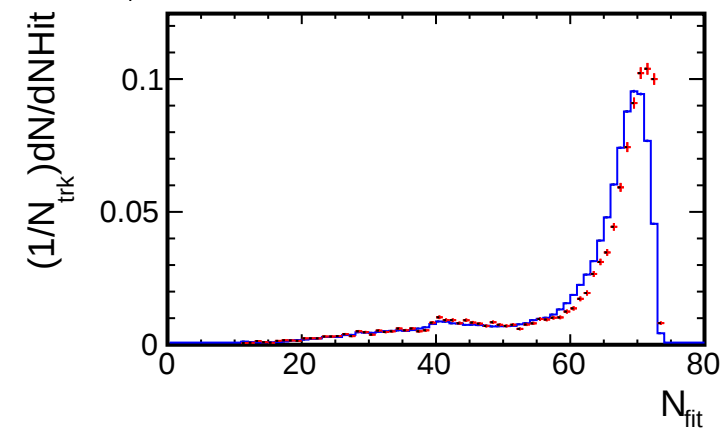


NHit distribution for (p_T , η) slices

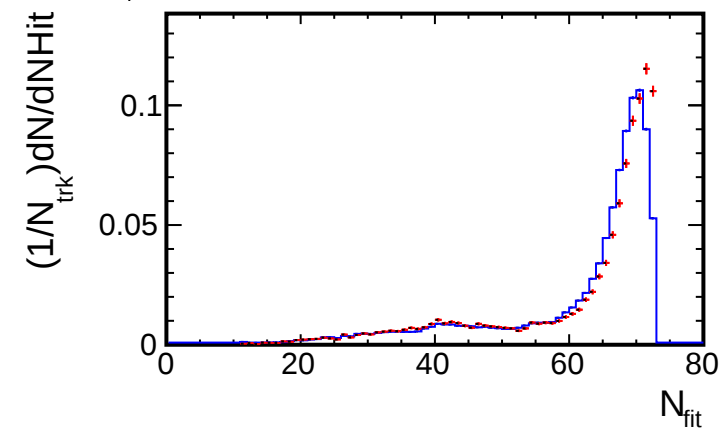


NHit distribution for (p_T , η) slices

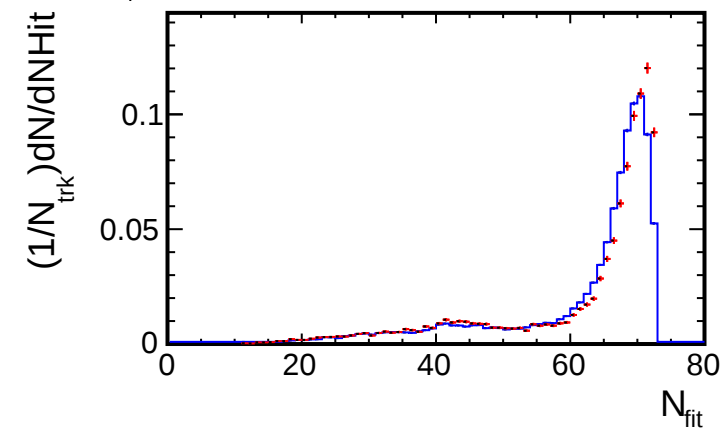
1.8, $1.0 < p_T < 1.5$ (GeV/c)



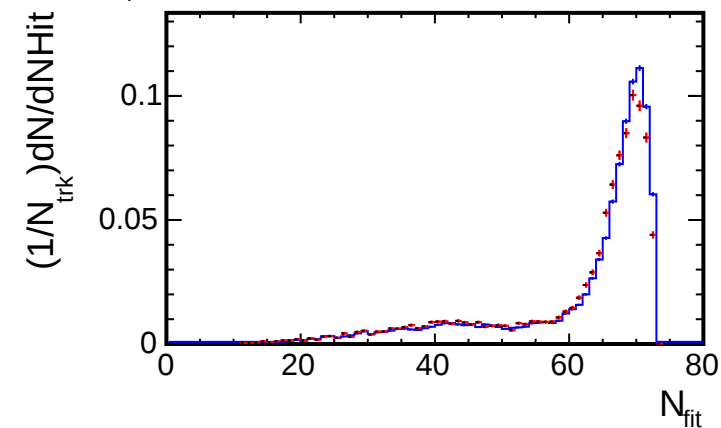
1.6, $1.0 < p_T < 1.5$ (GeV/c)



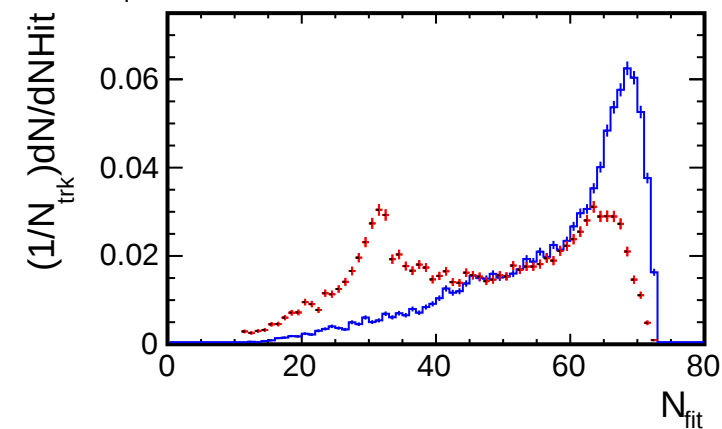
1.4, $1.0 < p_T < 1.5$ (GeV/c)



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



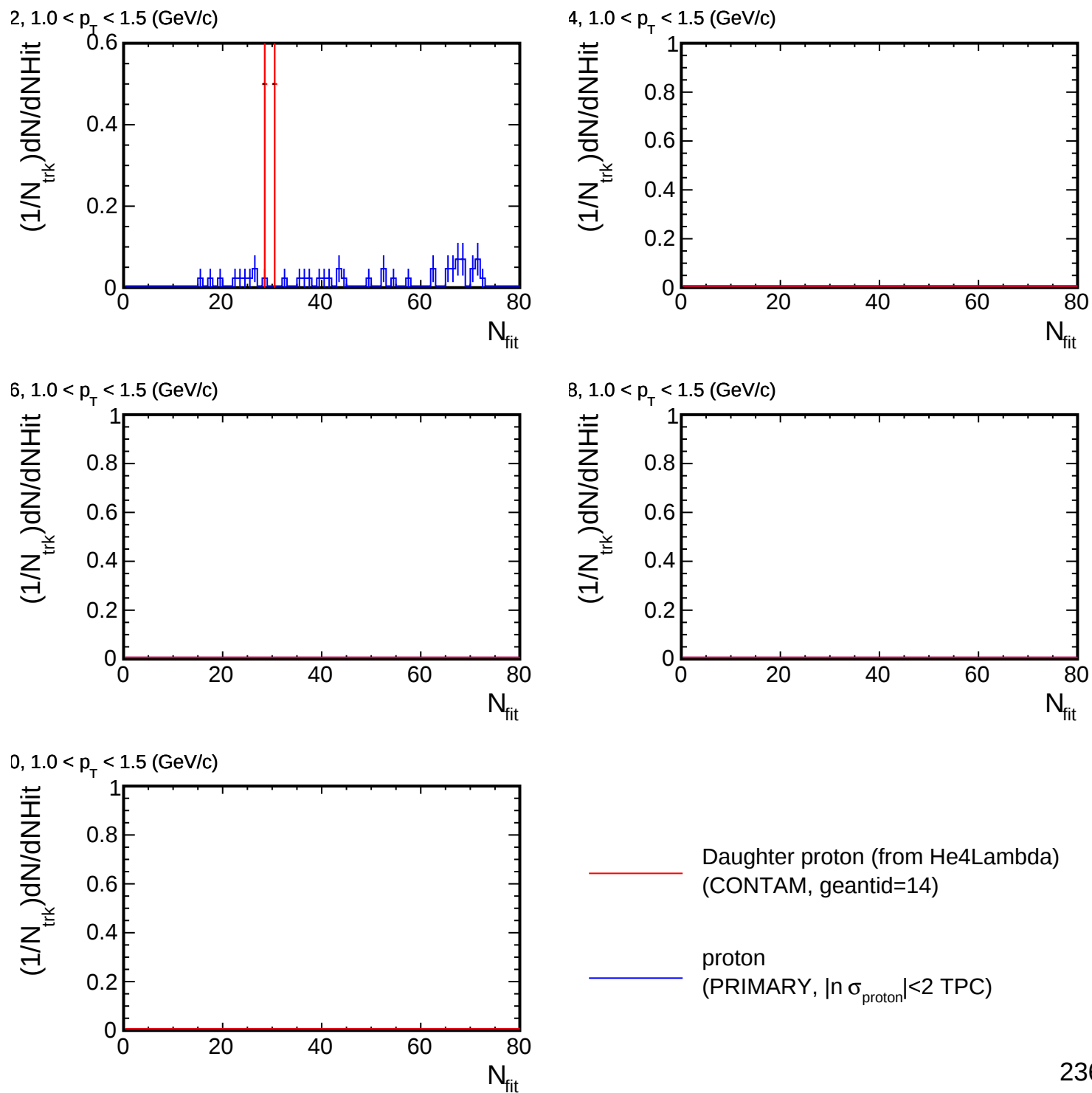
1.0, $1.0 < p_T < 1.5$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

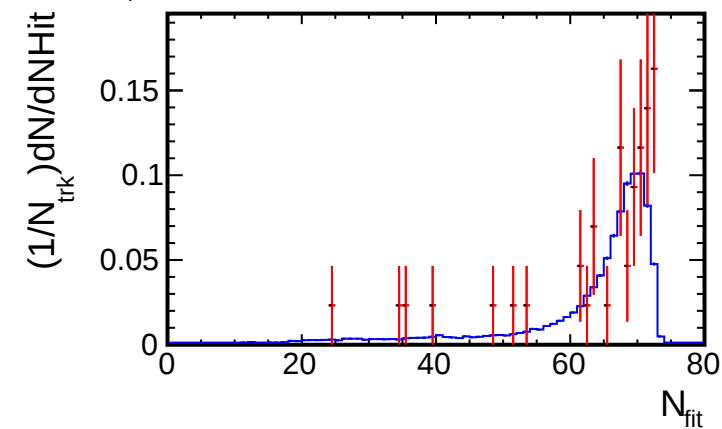
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

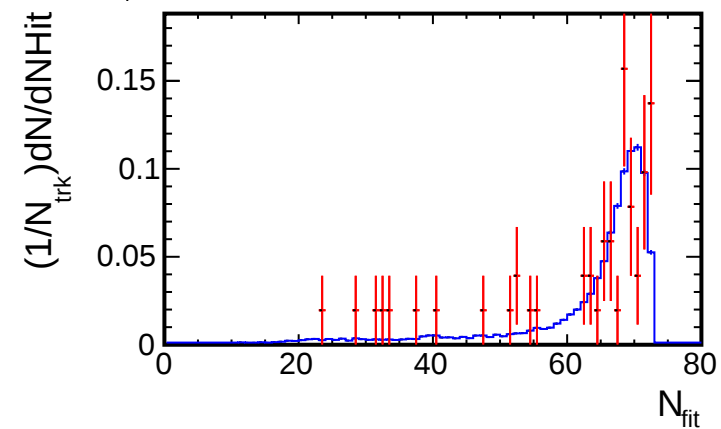


NHit distribution for (p_T , η) slices

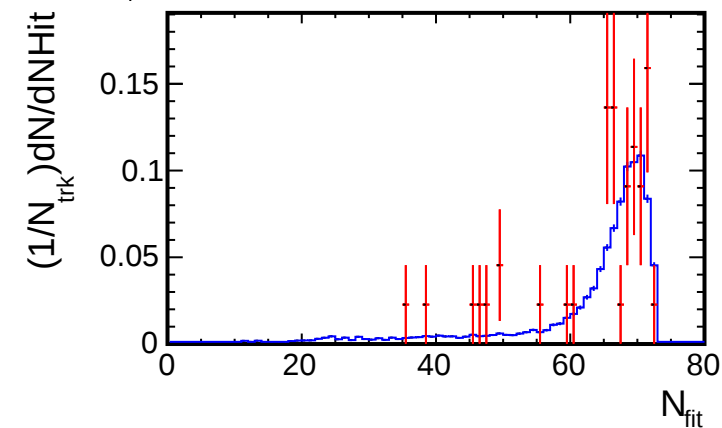
1.8, $1.5 < p_T < 2.0$ (GeV/c)



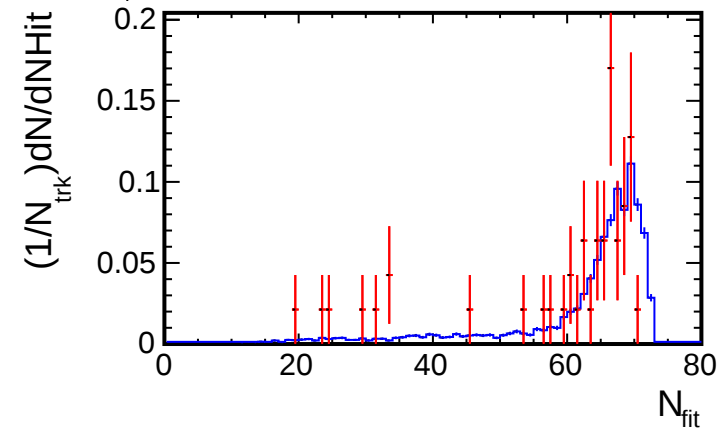
1.6, $1.5 < p_T < 2.0$ (GeV/c)



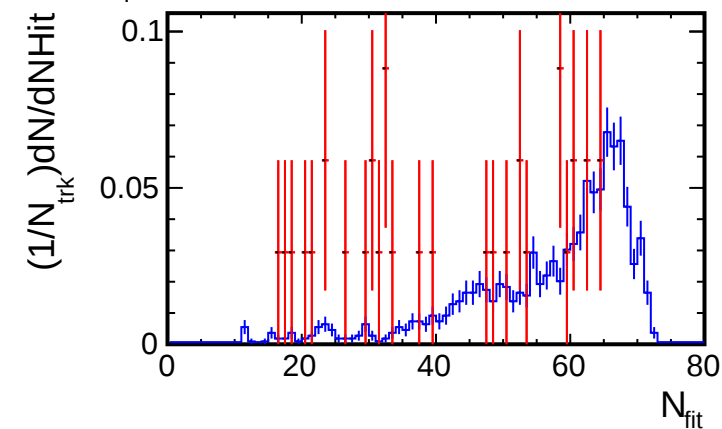
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



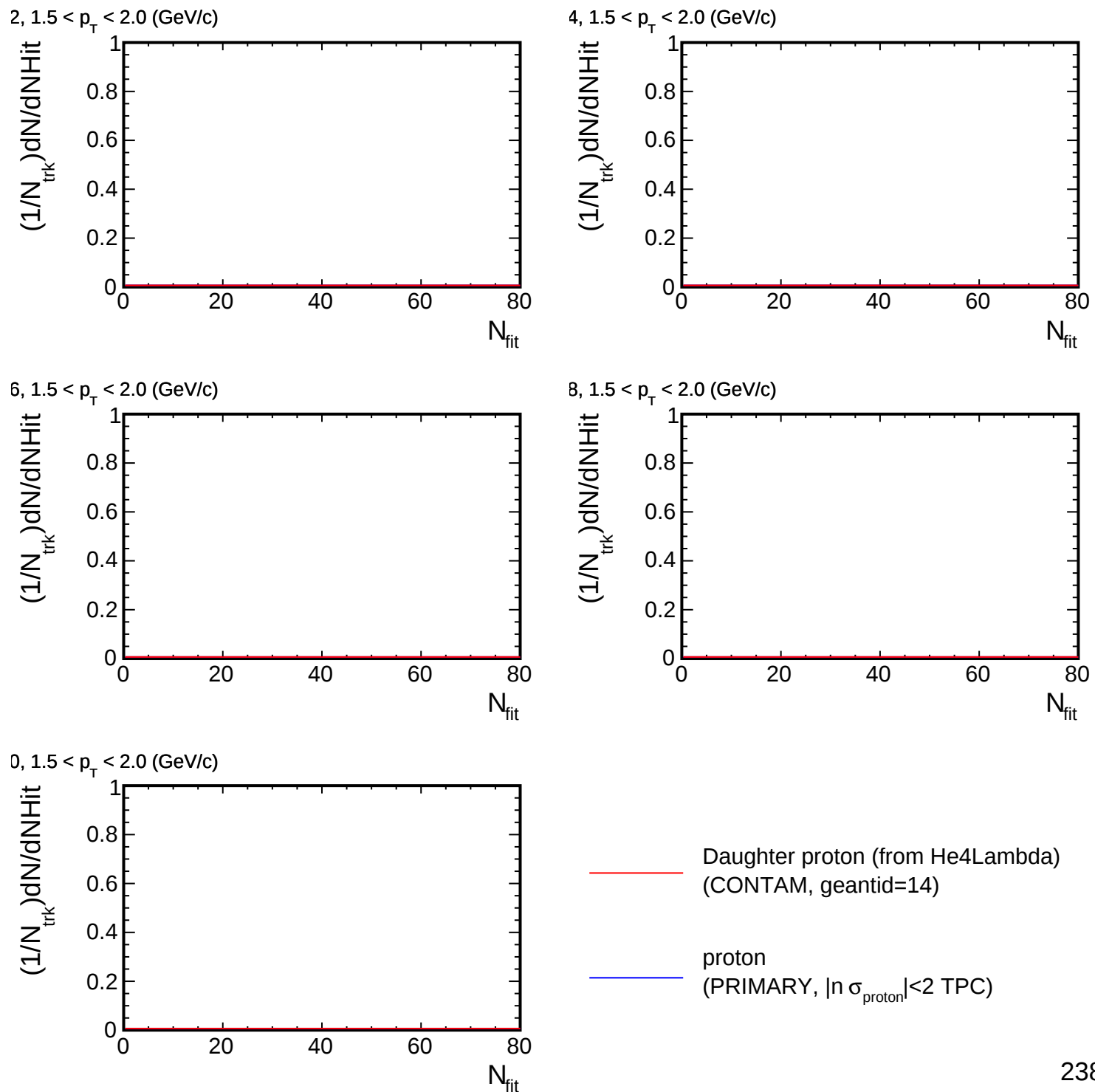
1.0, $1.5 < p_T < 2.0$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

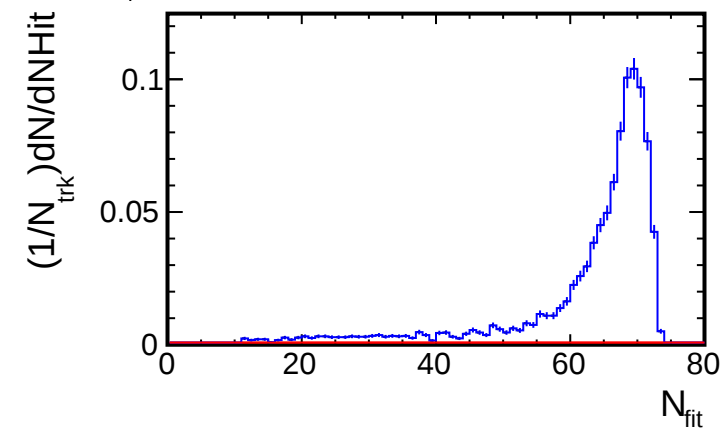
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

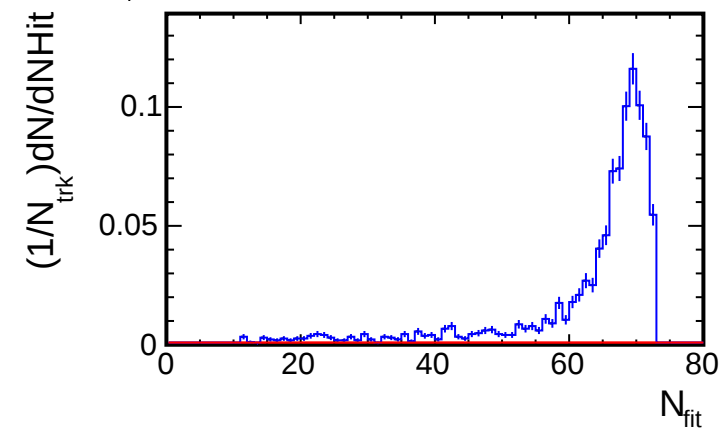


NHit distribution for (p_T , η) slices

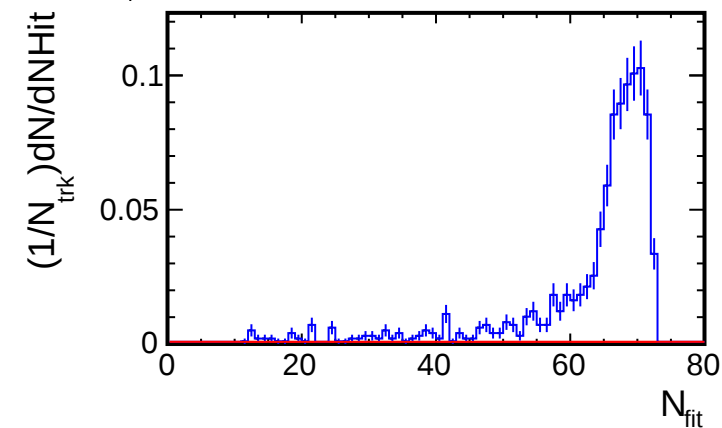
1.8, $2.0 < p_T < 2.5$ (GeV/c)



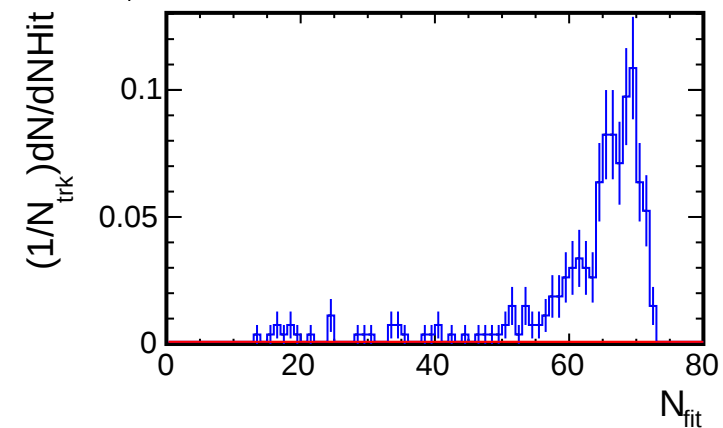
1.6, $2.0 < p_T < 2.5$ (GeV/c)



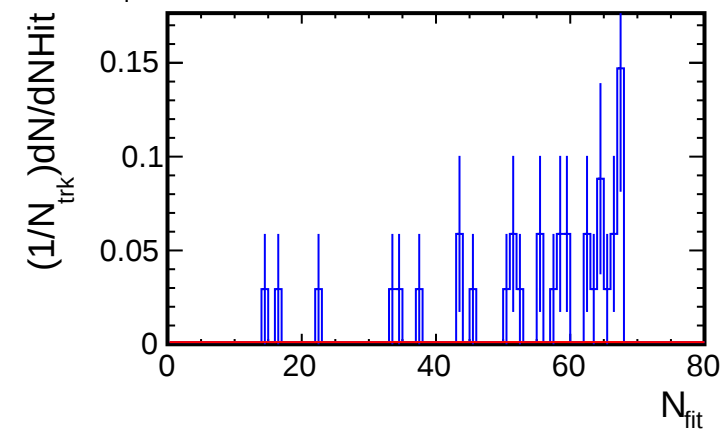
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



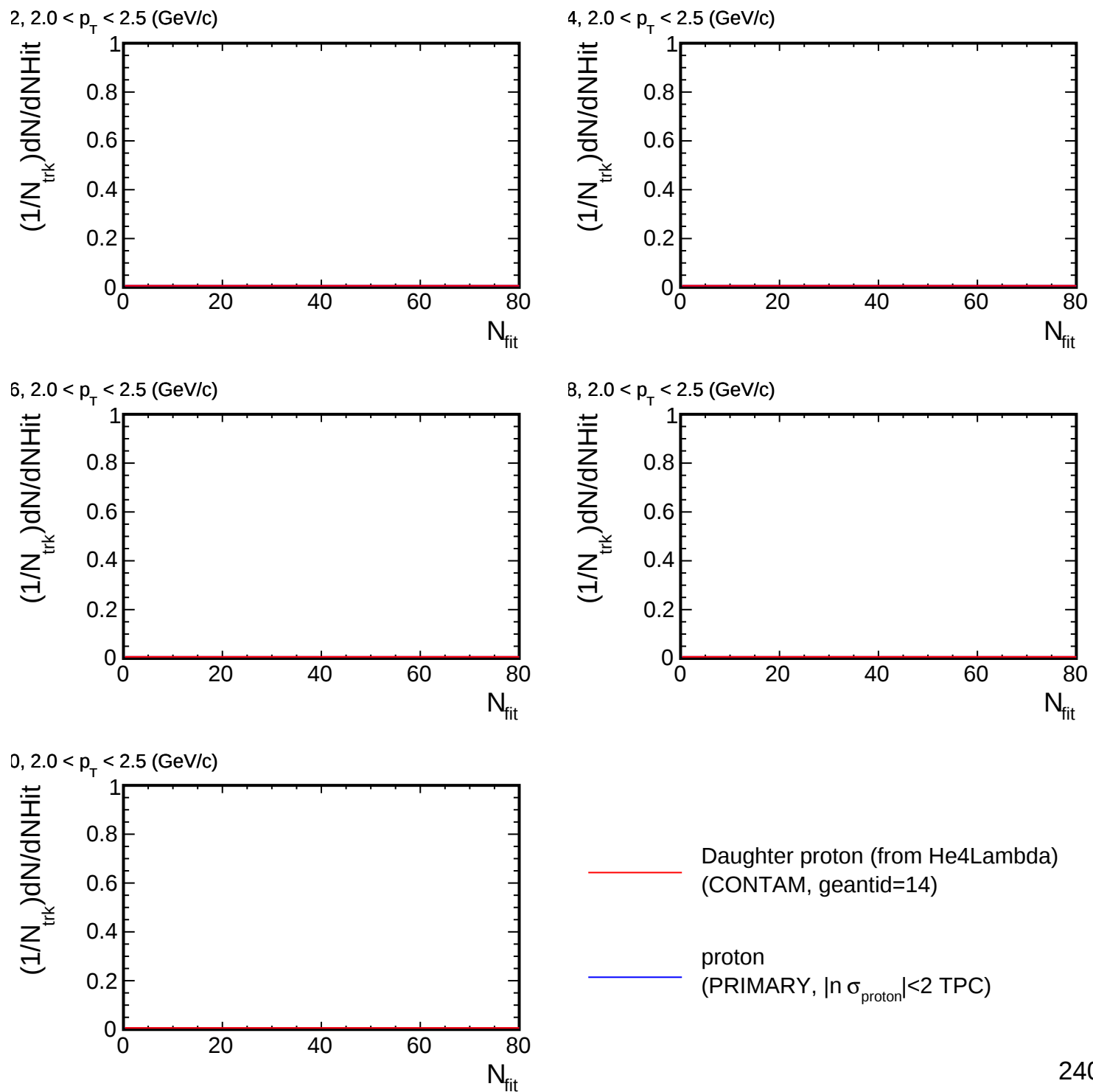
1.0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

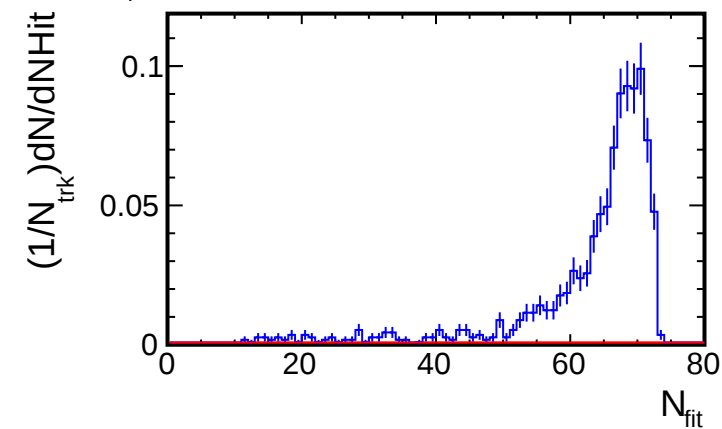
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

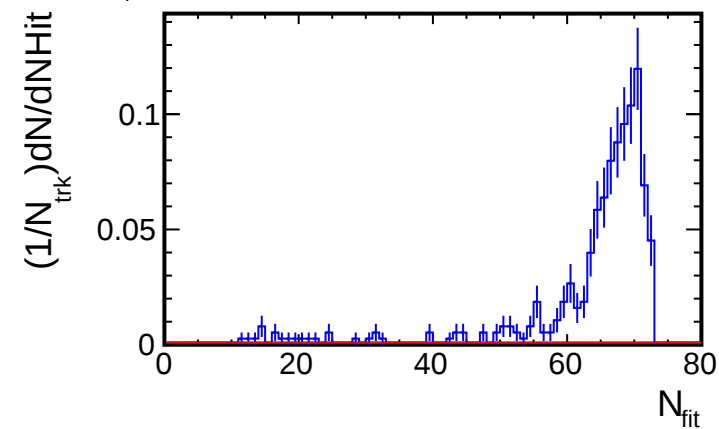


NHit distribution for (p_T , η) slices

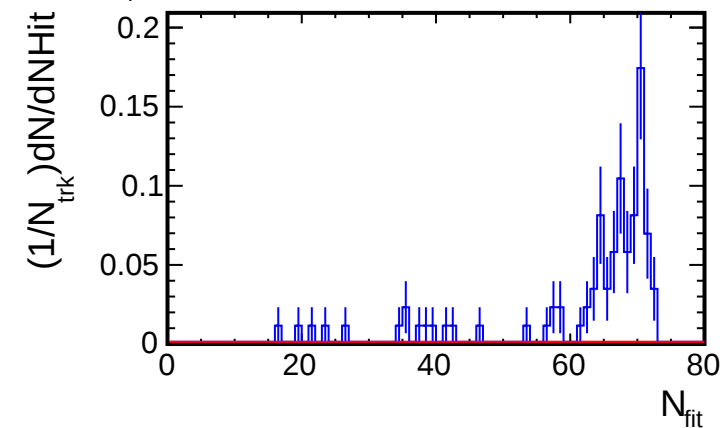
1.8, $2.5 < p_T < 3.0$ (GeV/c)



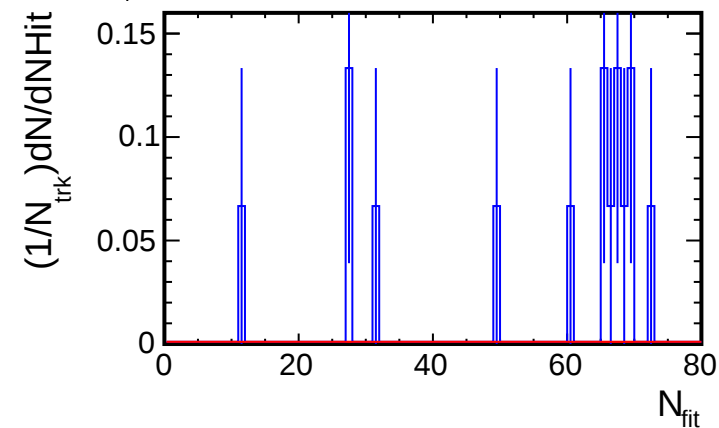
1.6, $2.5 < p_T < 3.0$ (GeV/c)



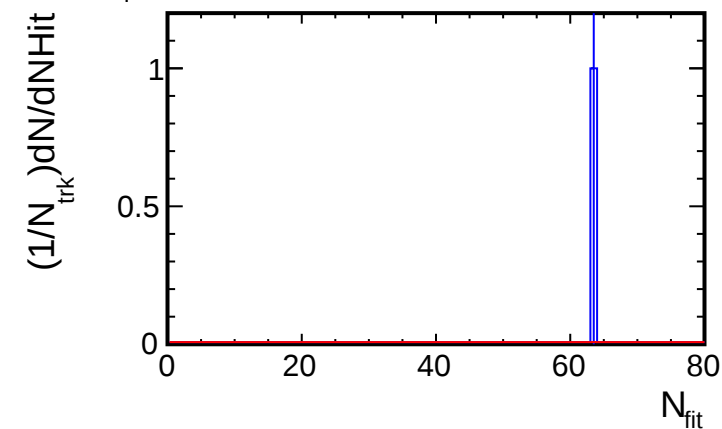
1.4, $2.5 < p_T < 3.0$ (GeV/c)



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



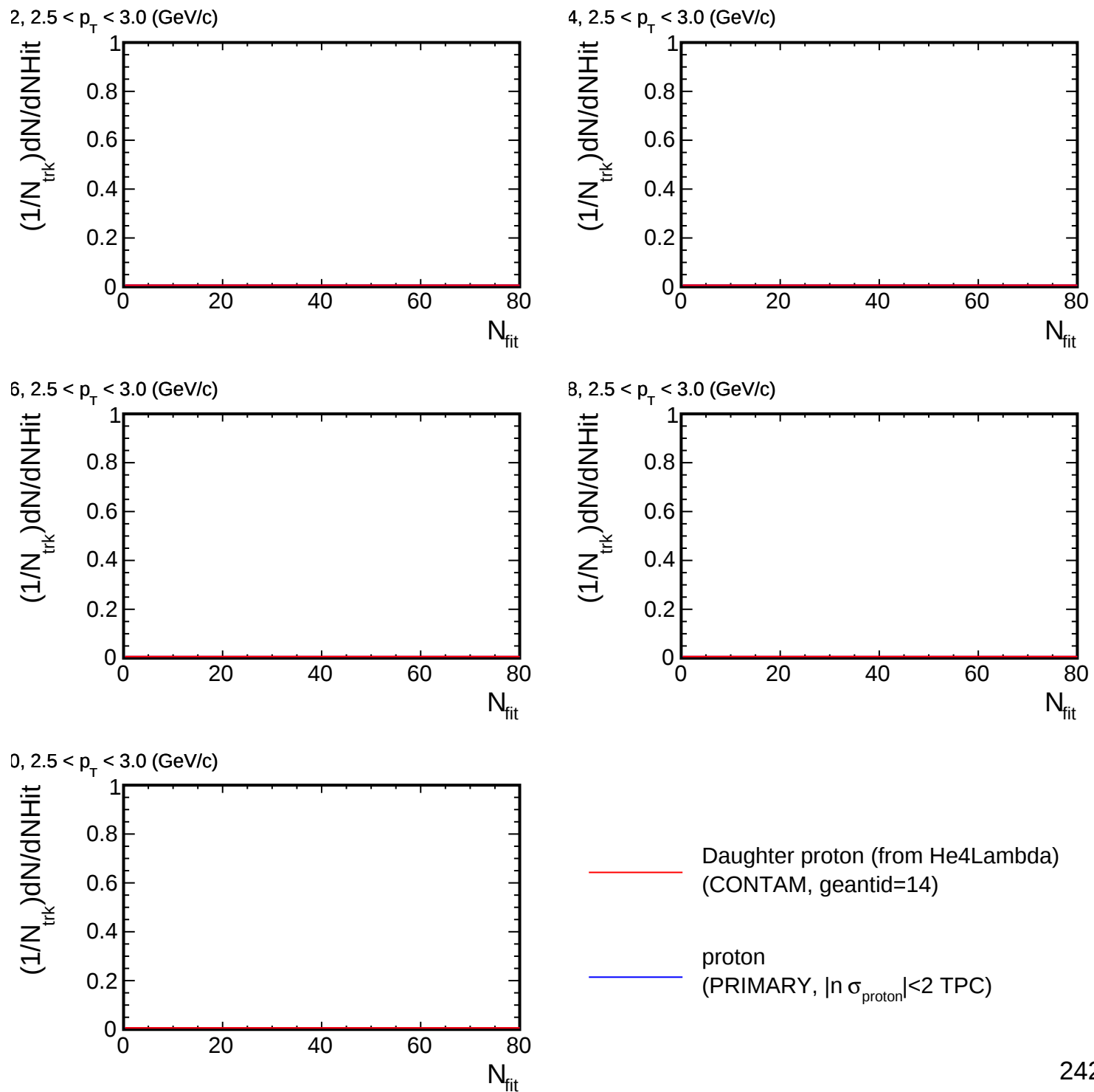
1.0, $2.5 < p_T < 3.0$ (GeV/c)



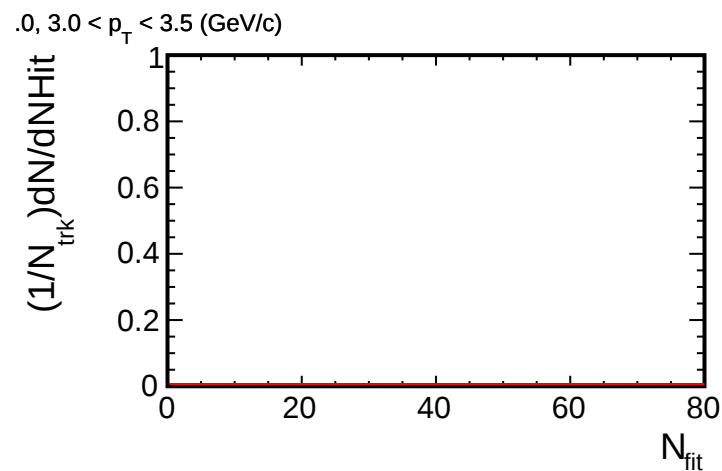
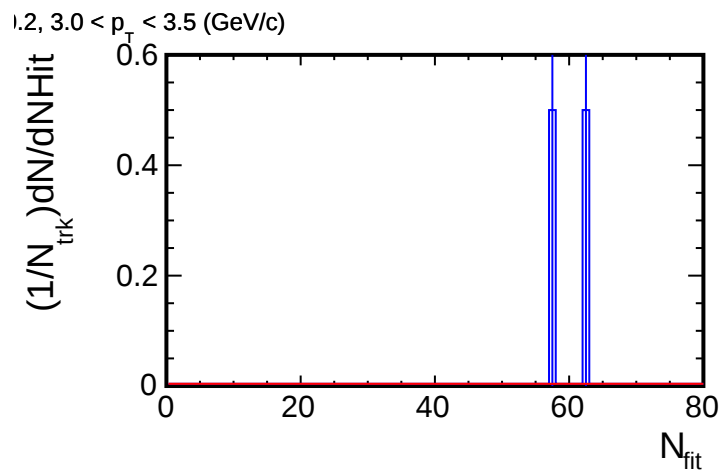
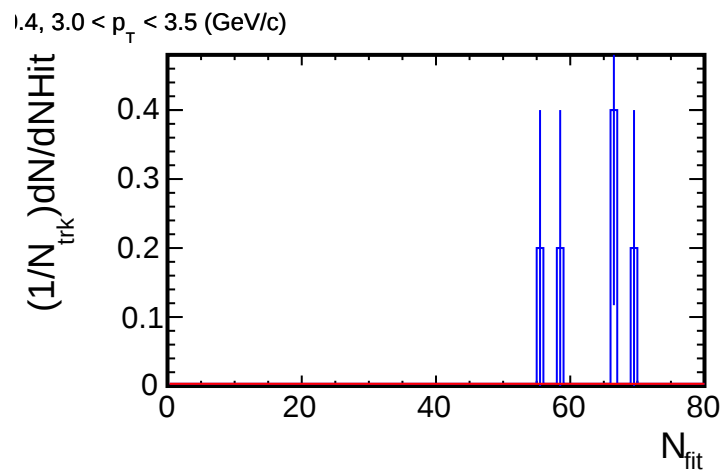
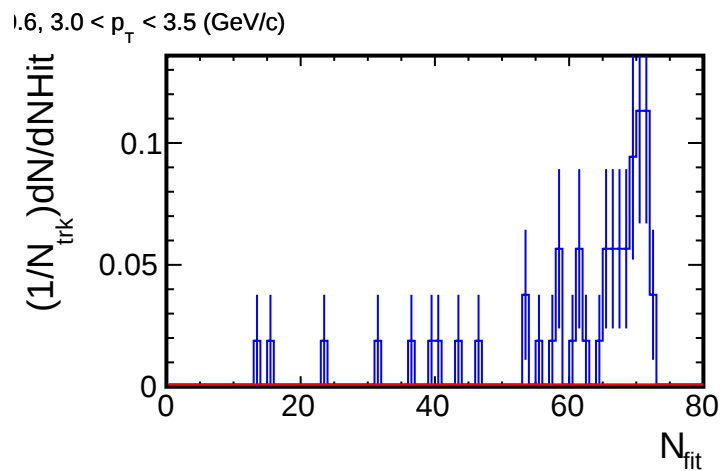
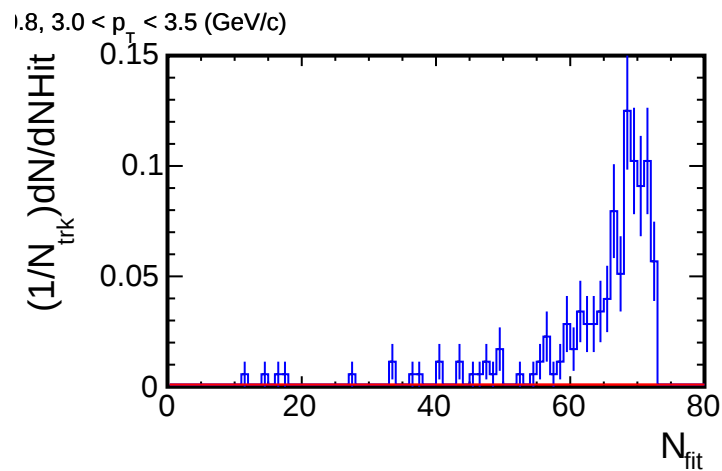
— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

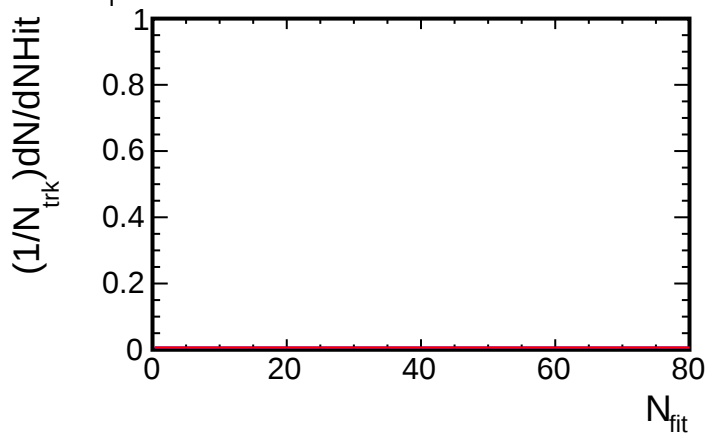


— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

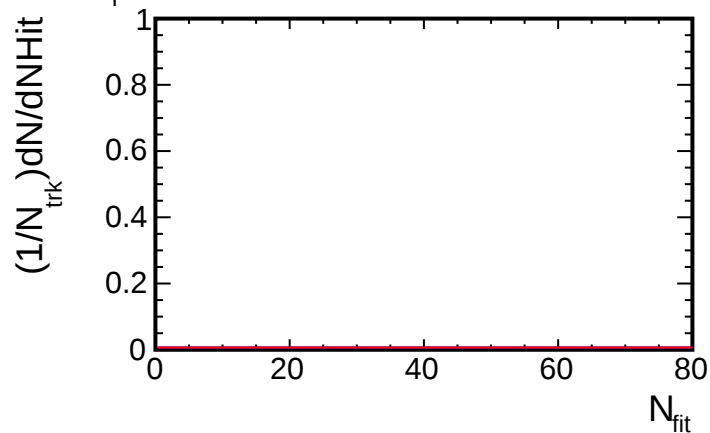
— proton
(PRIMARY, $|\ln \sigma_{\text{proton}}| < 2$ TPC)

NHit distribution for (p_T , η) slices

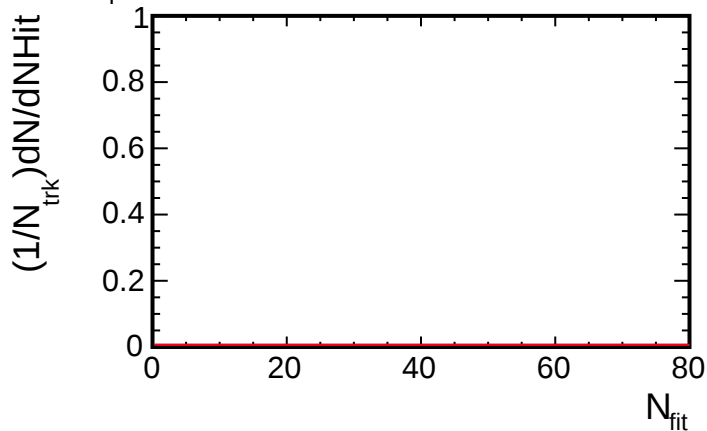
2, $3.0 < p_T < 3.5$ (GeV/c)



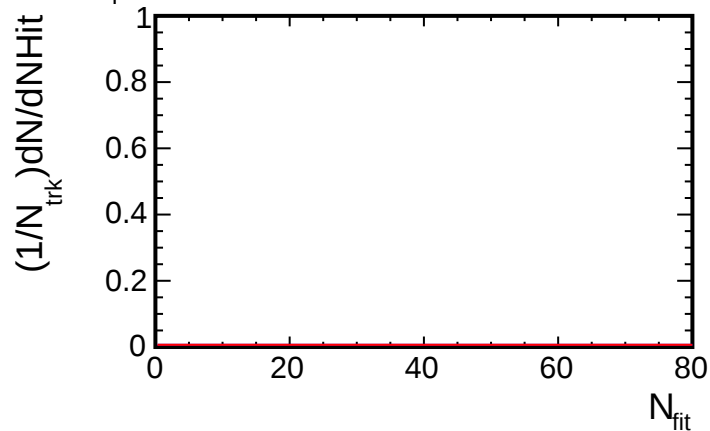
4, $3.0 < p_T < 3.5$ (GeV/c)



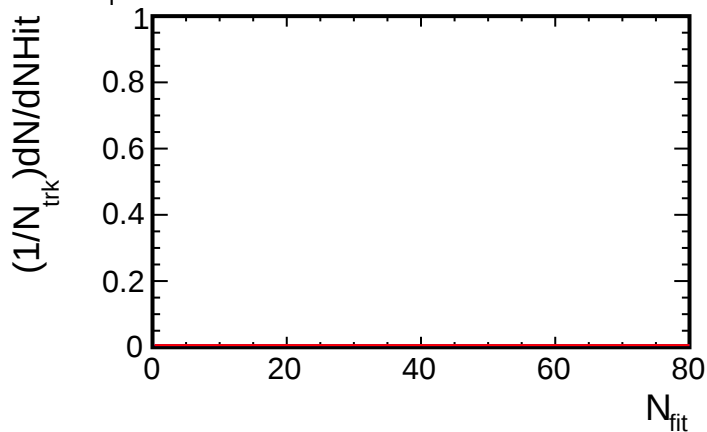
6, $3.0 < p_T < 3.5$ (GeV/c)



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



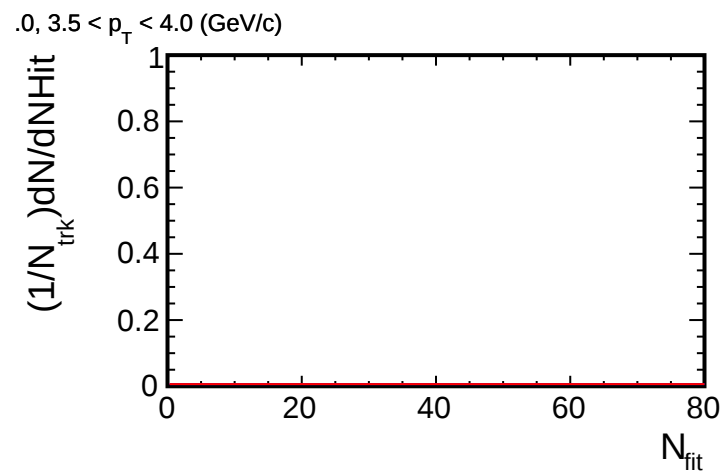
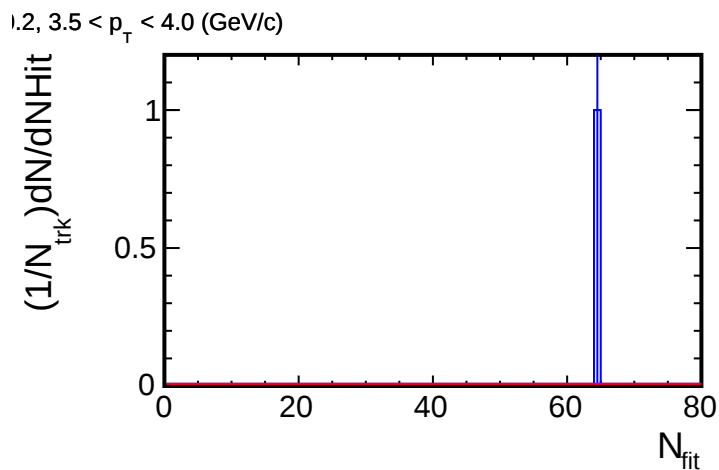
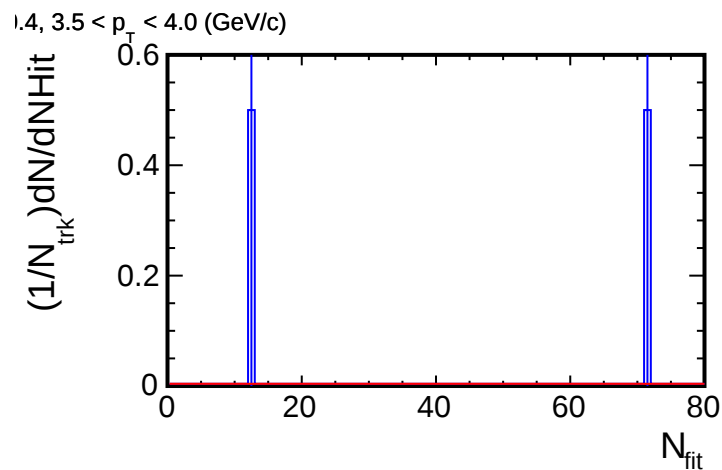
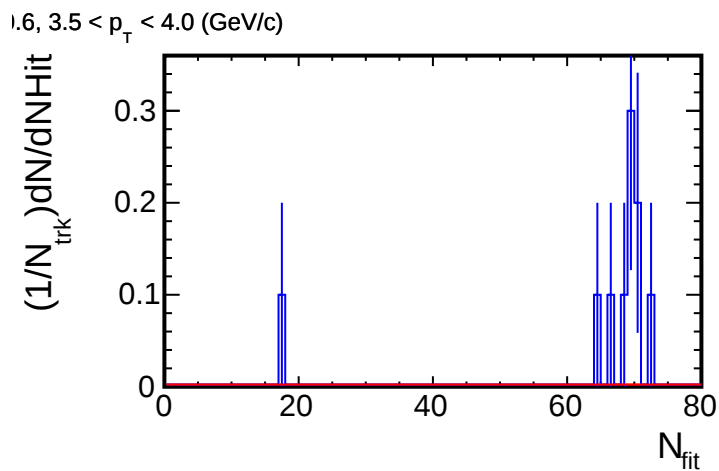
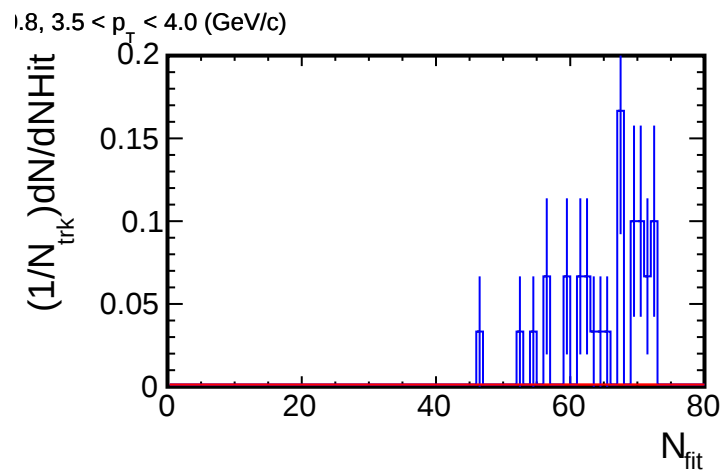
0, $3.0 < p_T < 3.5$ (GeV/c)



— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

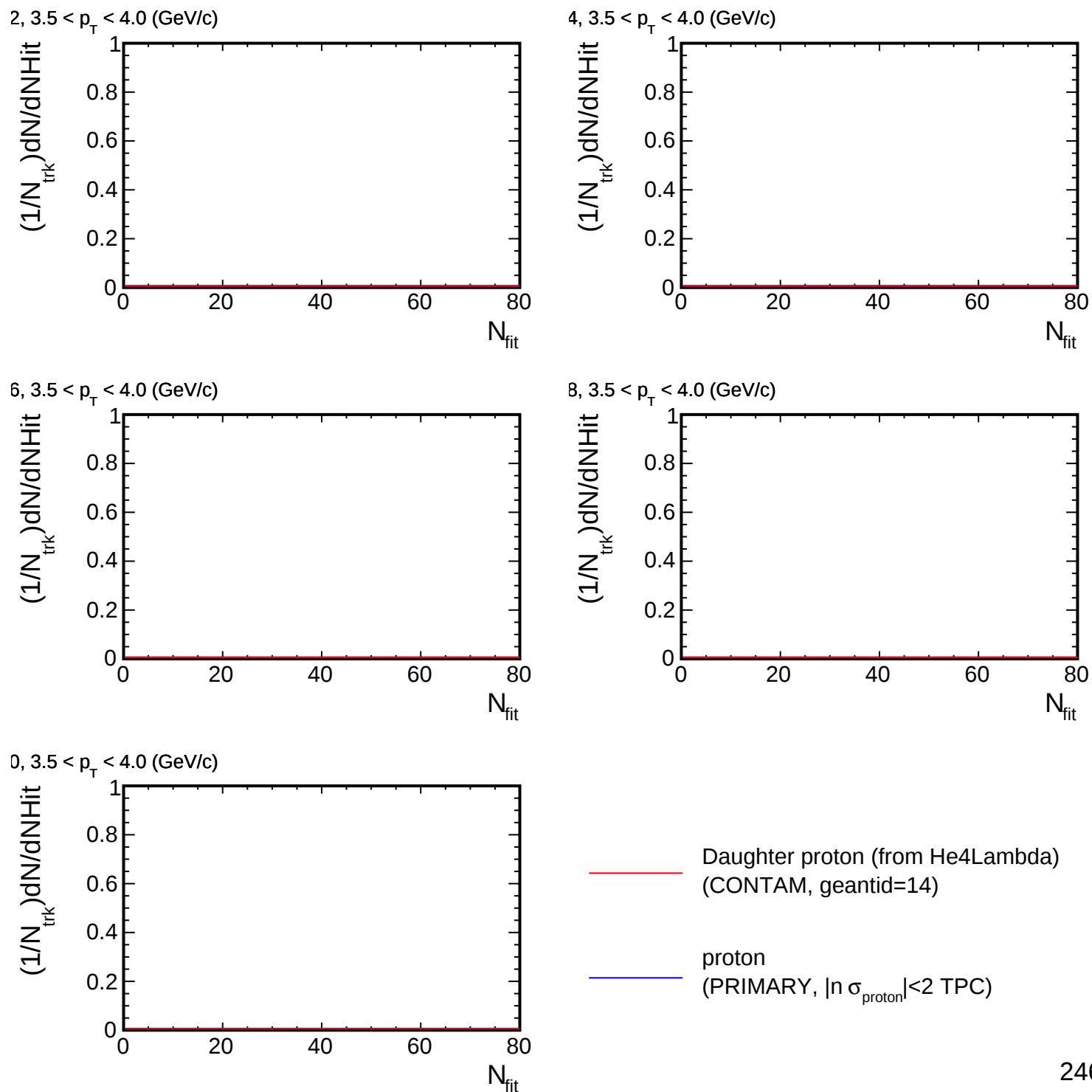
NHit distribution for (p_T , η) slices



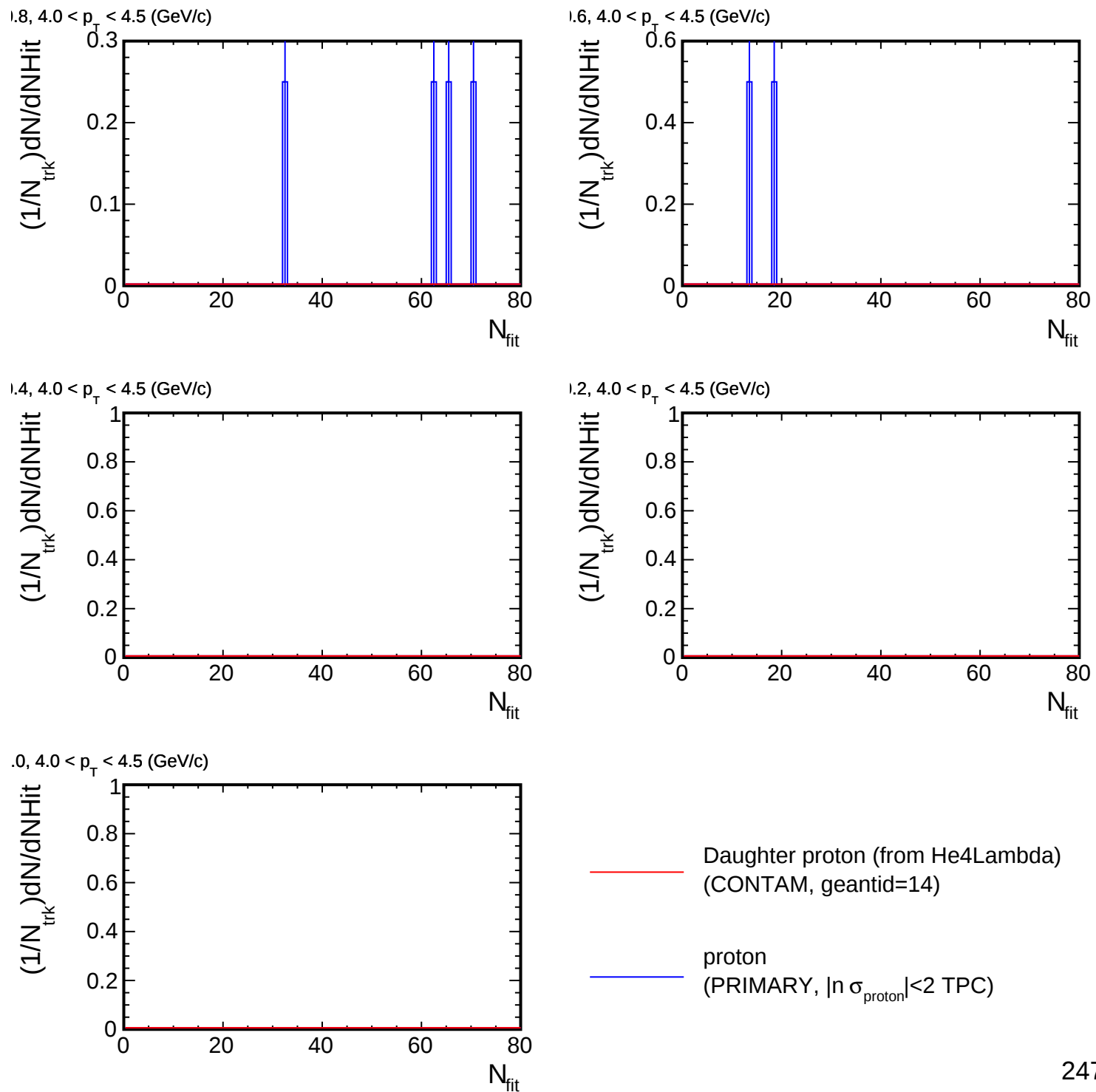
— Daughter proton (from He4Lambda)
(CONTAM, geantid=14)

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

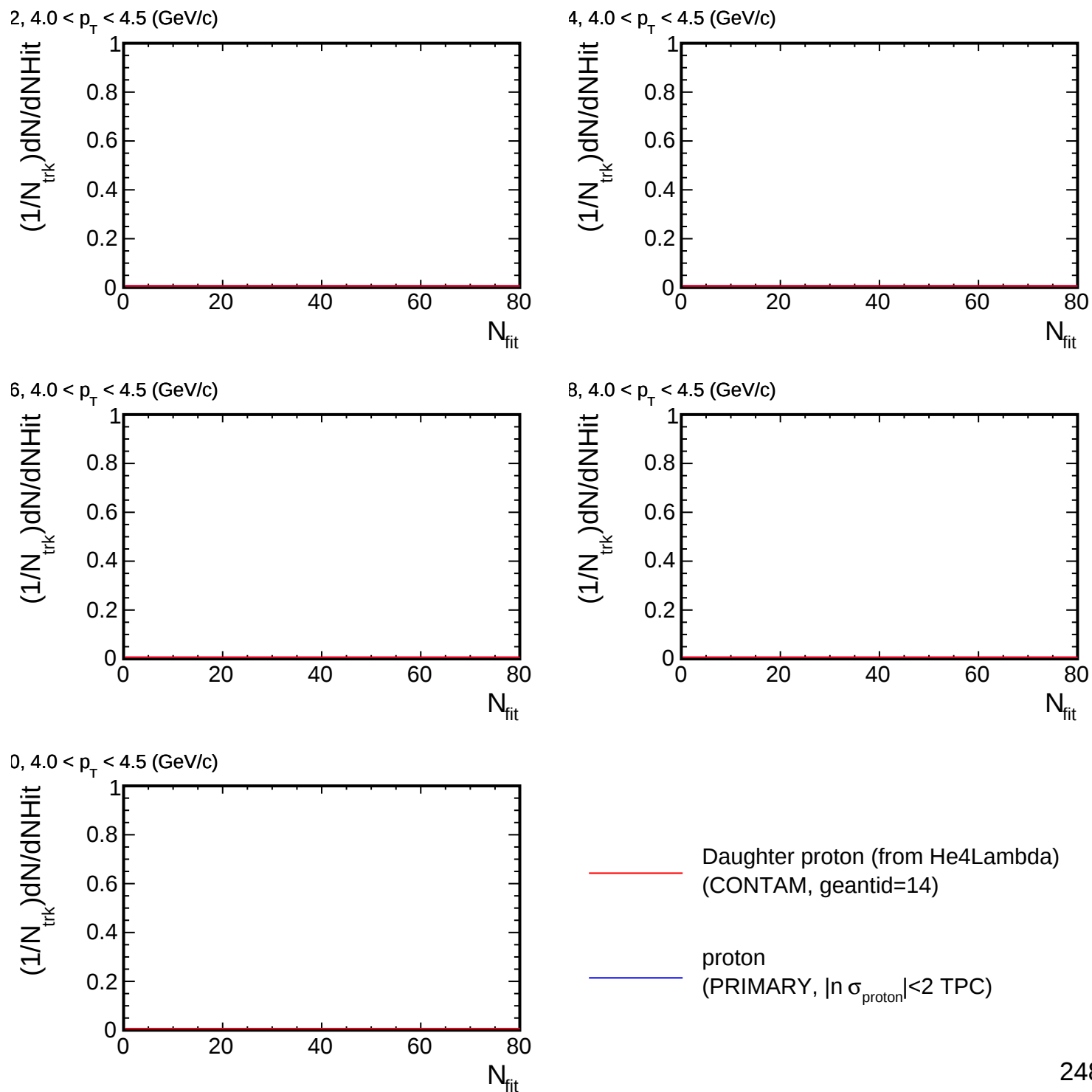
NHit distribution for (p_T , η) slices



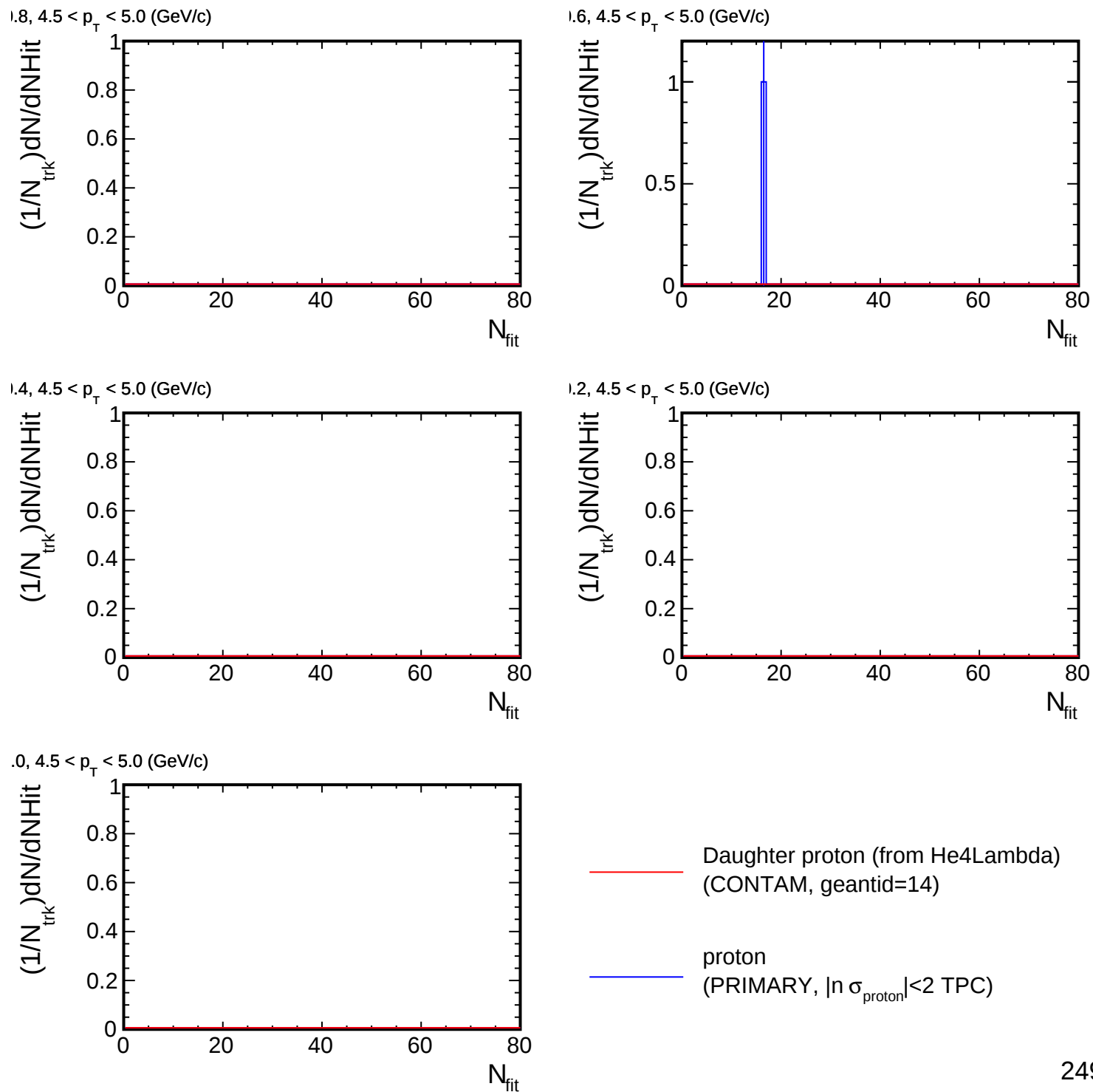
NHit distribution for (p_T , η) slices



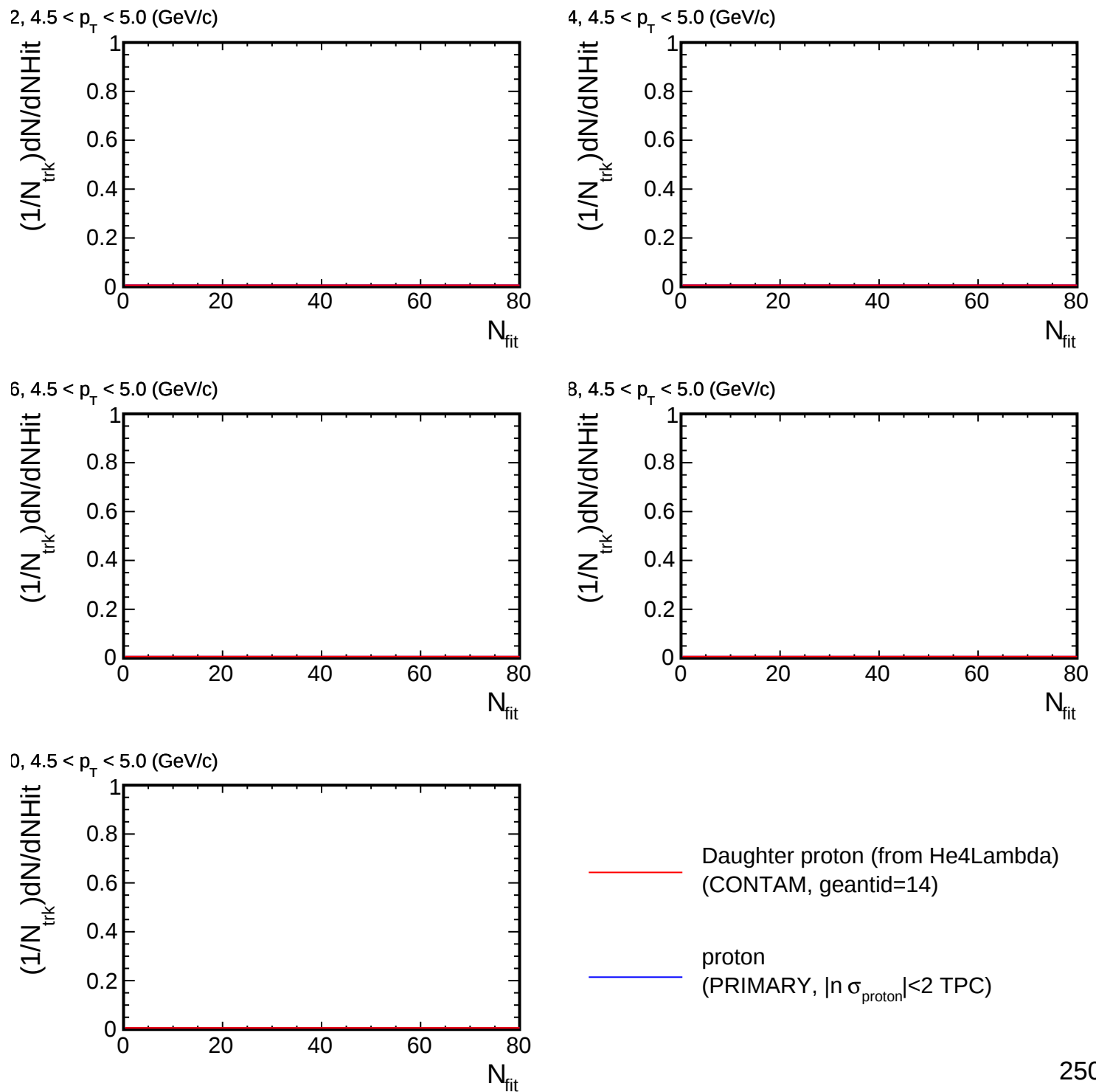
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

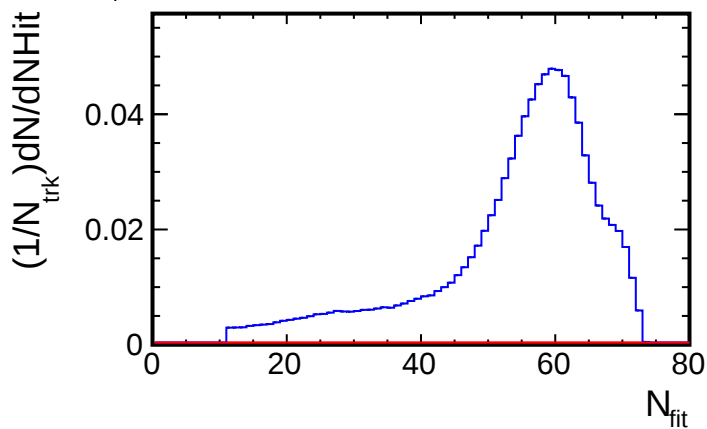


NHit distribution for (p_T , η) slices

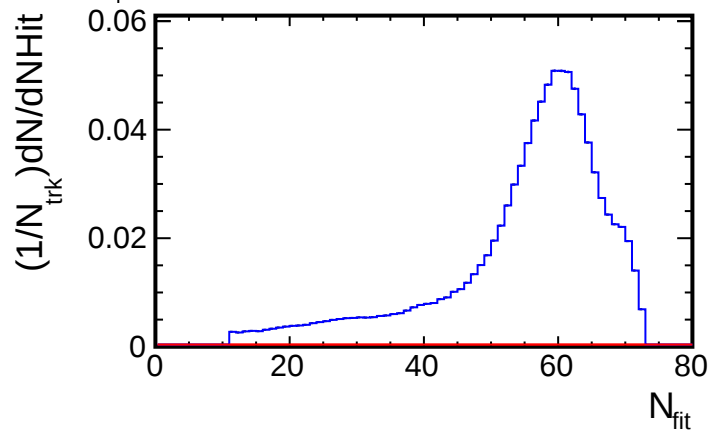


NHit distribution for (p_T , η) slices

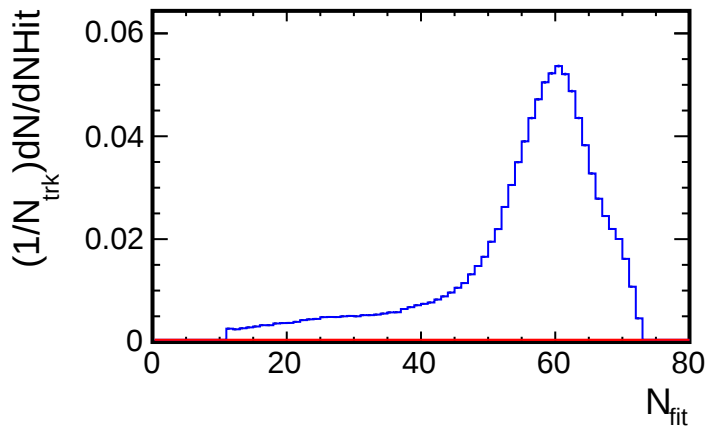
1.8, $0.1 < p_T < 0.5$ (GeV/c)



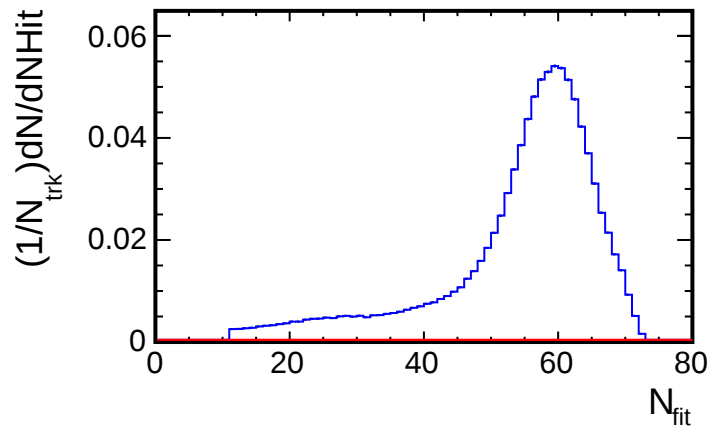
1.6, $0.1 < p_T < 0.5$ (GeV/c)



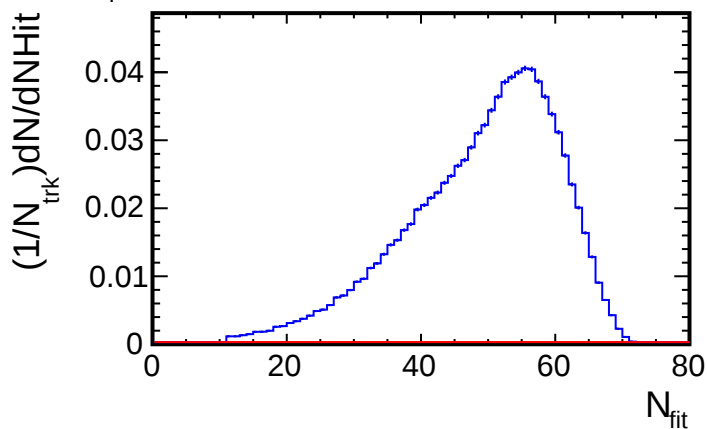
1.4, $0.1 < p_T < 0.5$ (GeV/c)



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



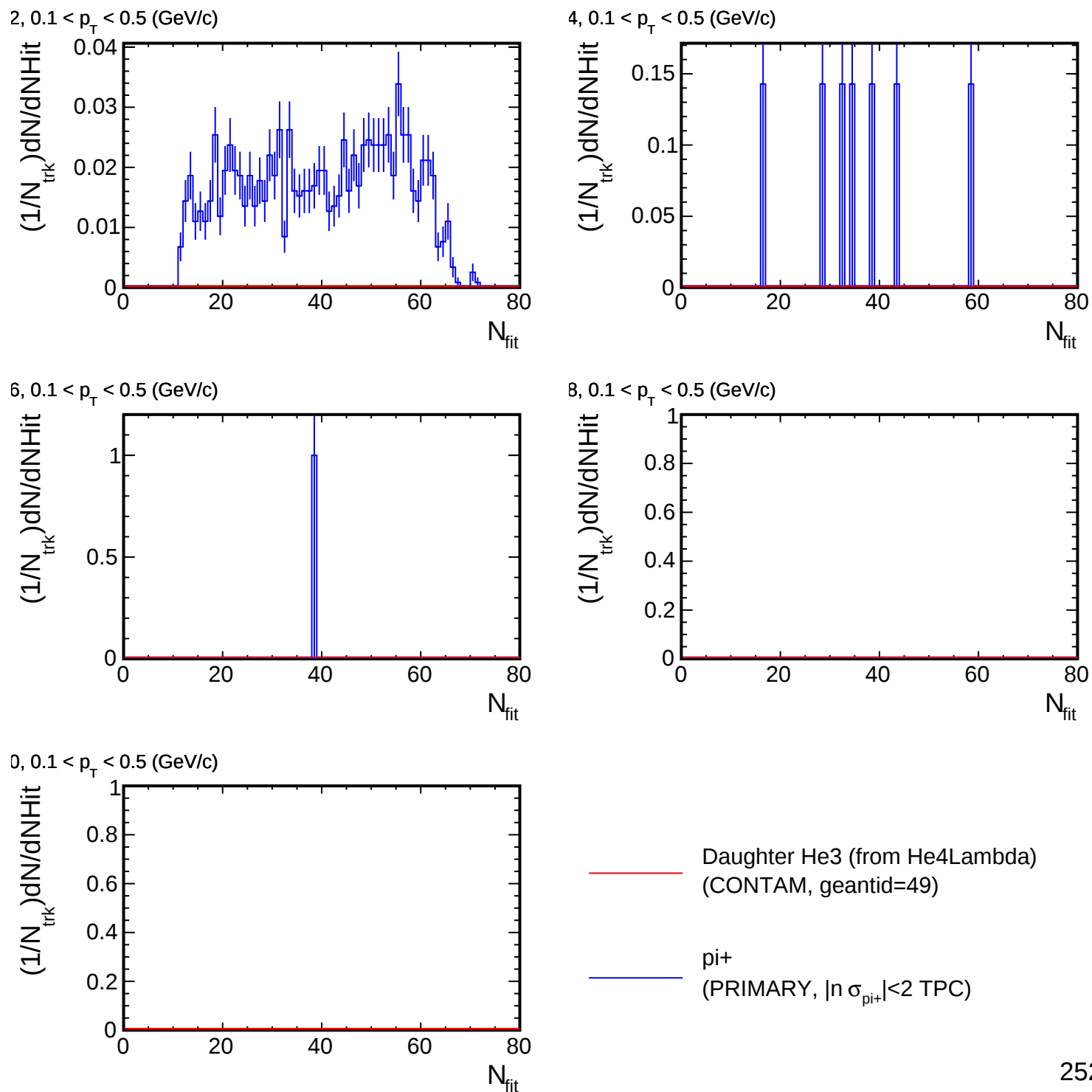
1.0, $0.1 < p_T < 0.5$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

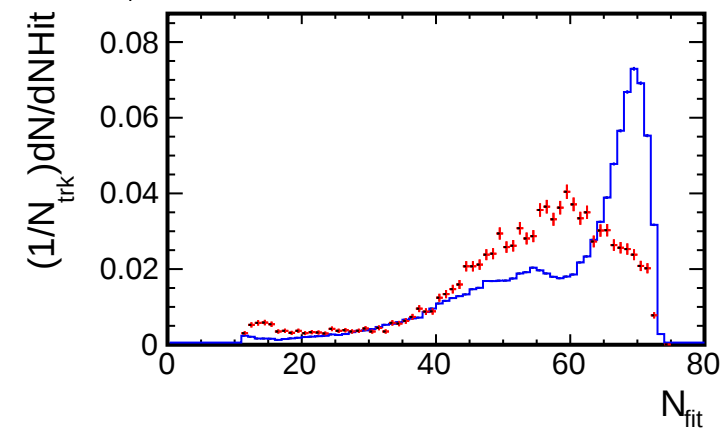
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

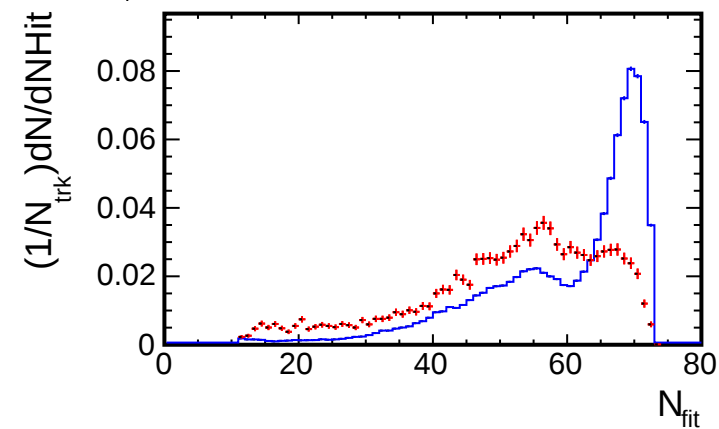


NHit distribution for (p_T , η) slices

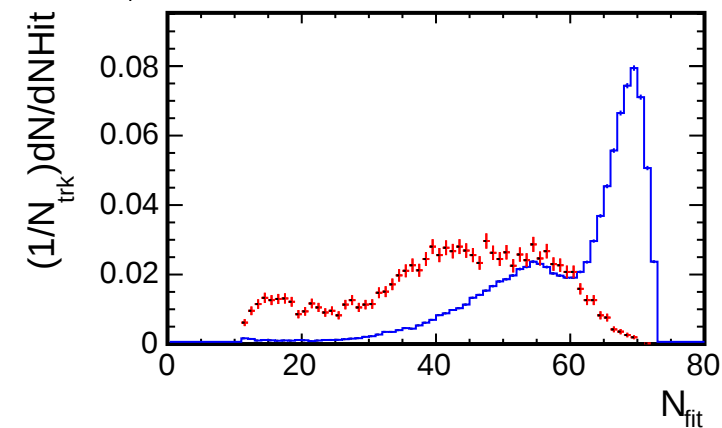
1.8, $0.5 < p_T < 1.0$ (GeV/c)



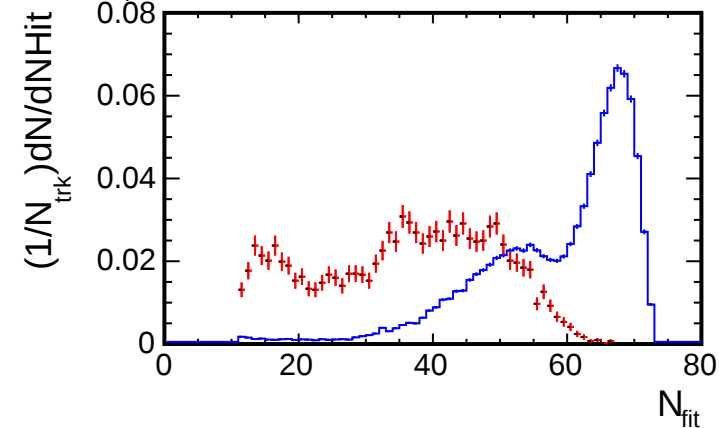
1.6, $0.5 < p_T < 1.0$ (GeV/c)



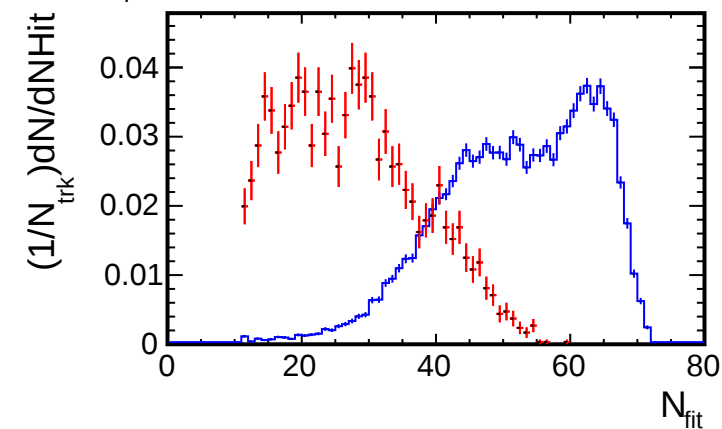
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



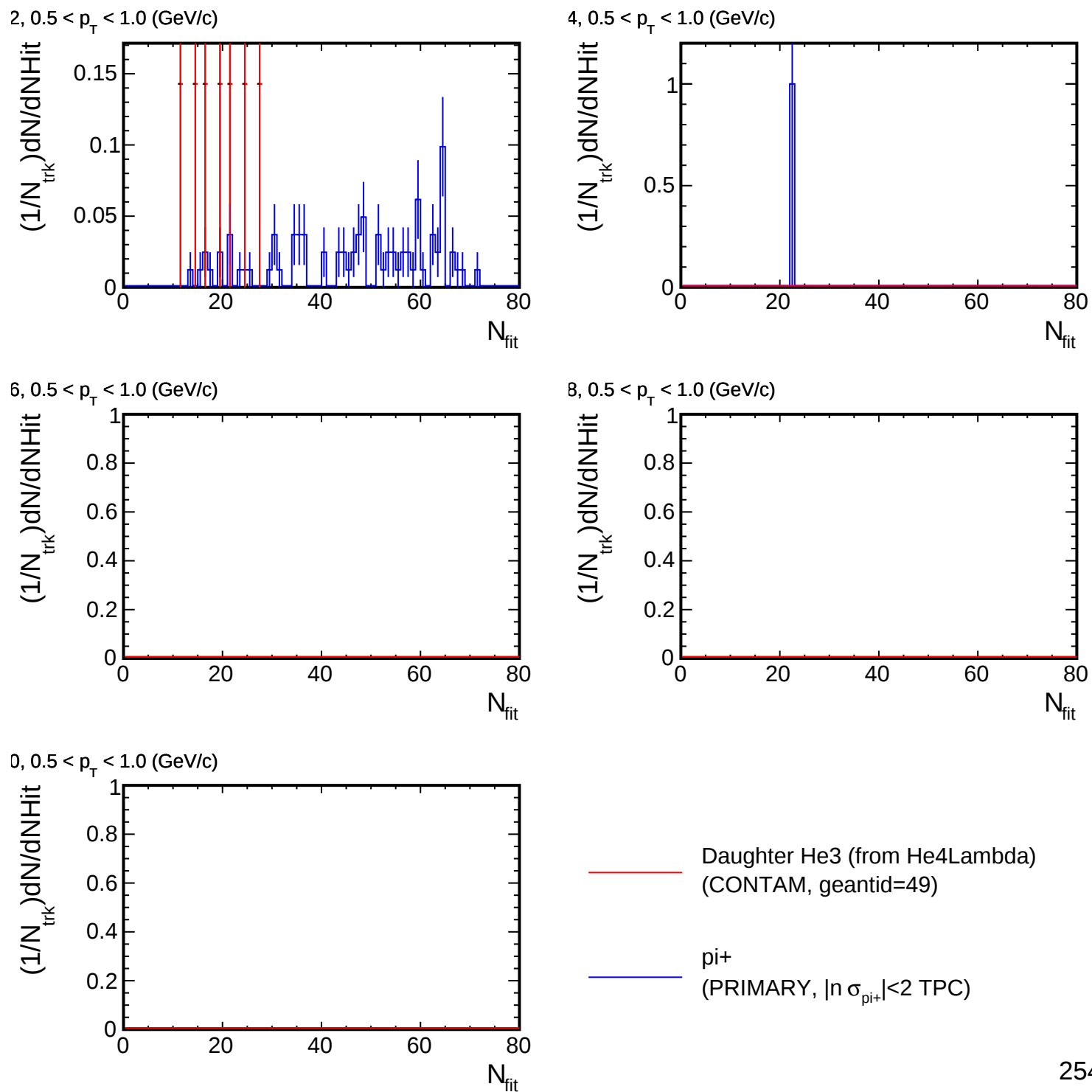
1.0, $0.5 < p_T < 1.0$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

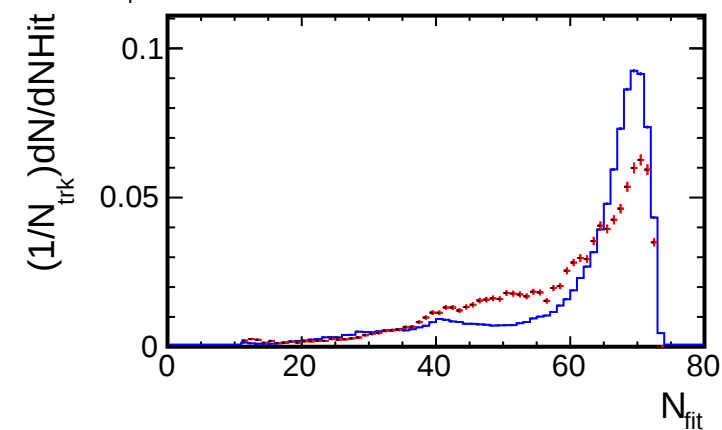
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

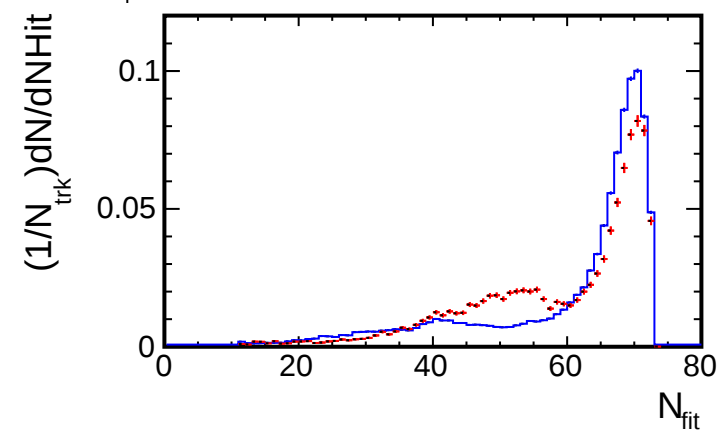


NHit distribution for (p_T , η) slices

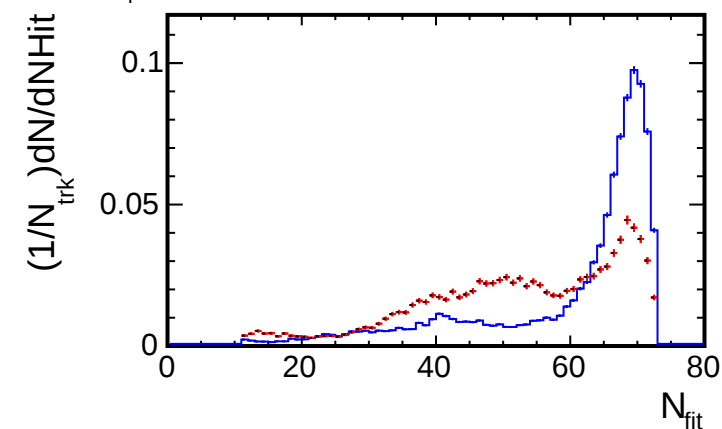
1.8, $1.0 < p_T < 1.5$ (GeV/c)



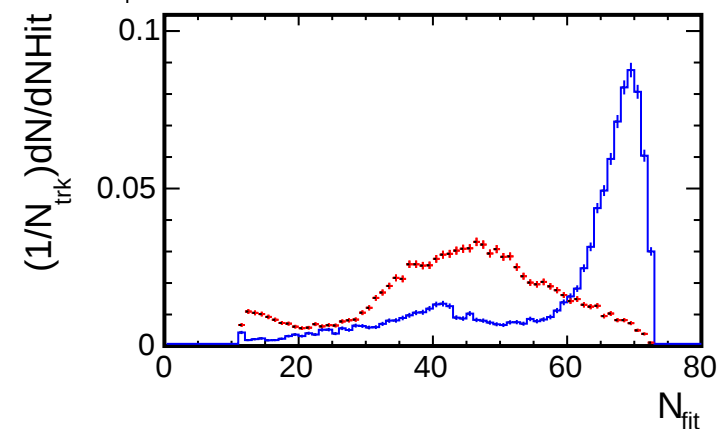
1.6, $1.0 < p_T < 1.5$ (GeV/c)



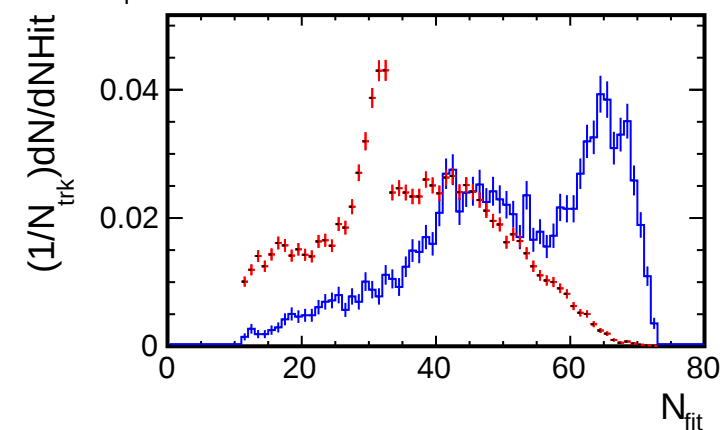
1.4, $1.0 < p_T < 1.5$ (GeV/c)



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



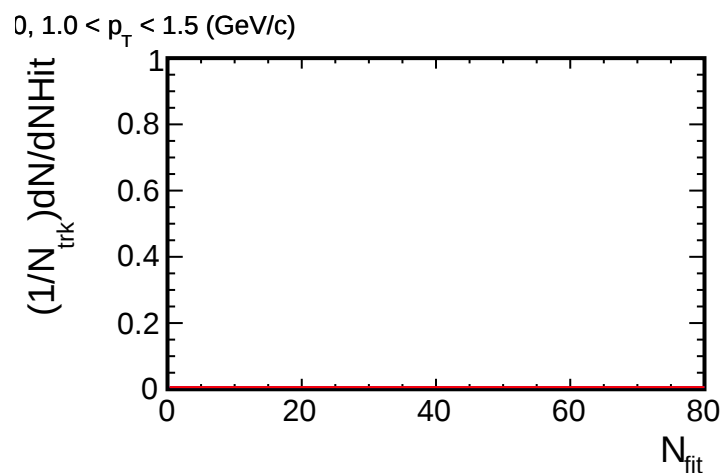
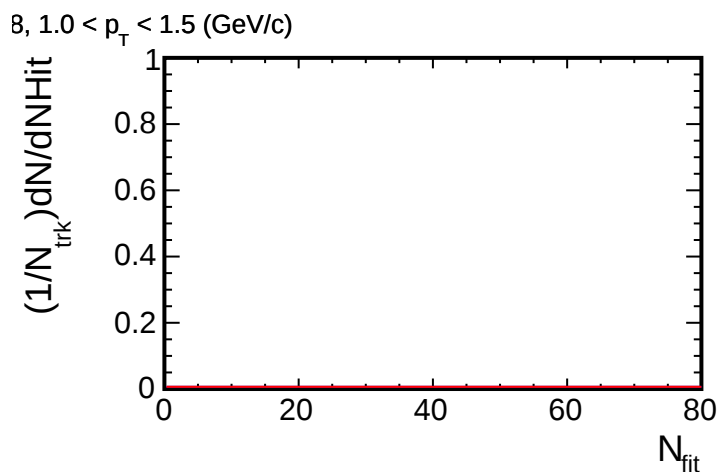
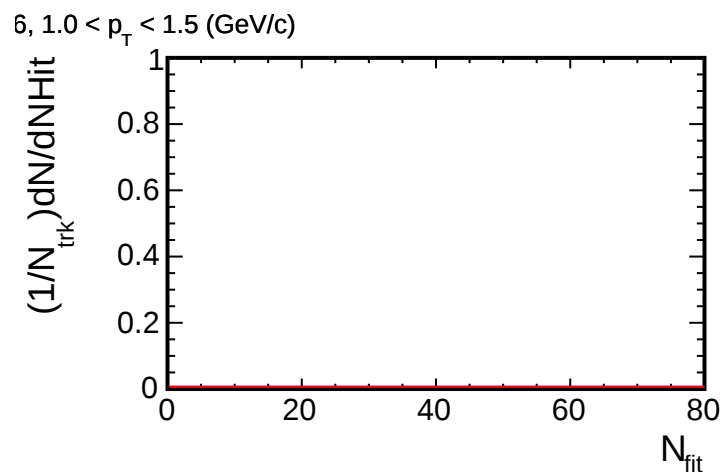
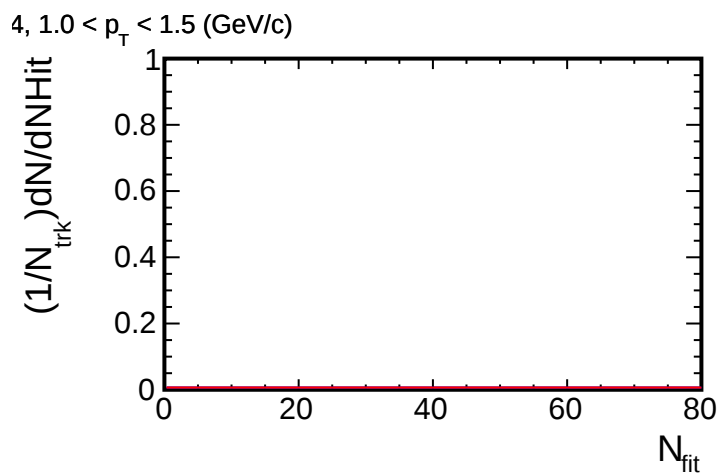
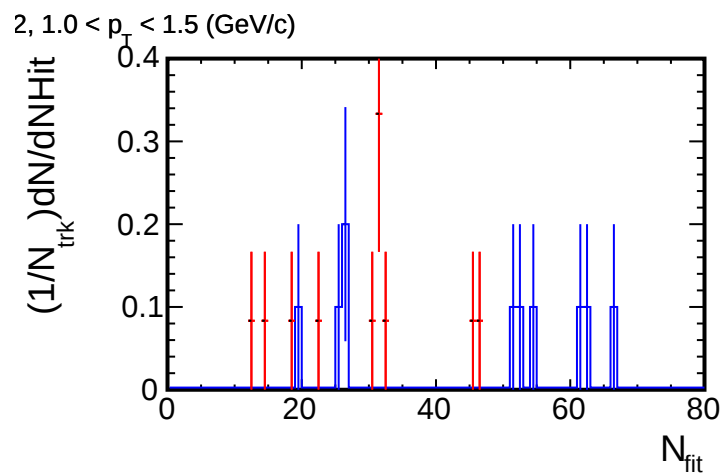
1.0, $1.0 < p_T < 1.5$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

NHit distribution for (p_T , η) slices

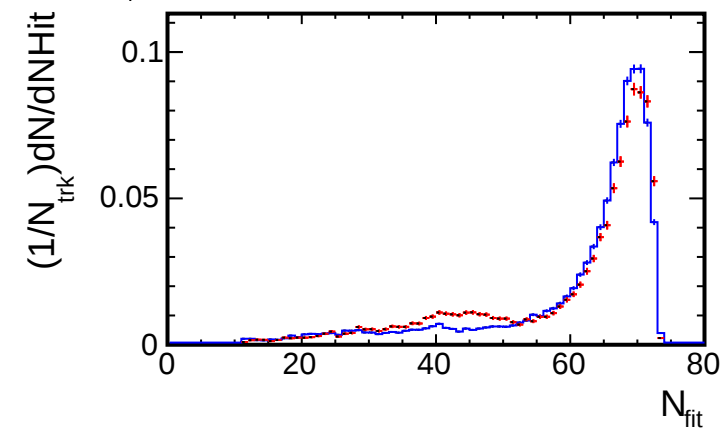


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

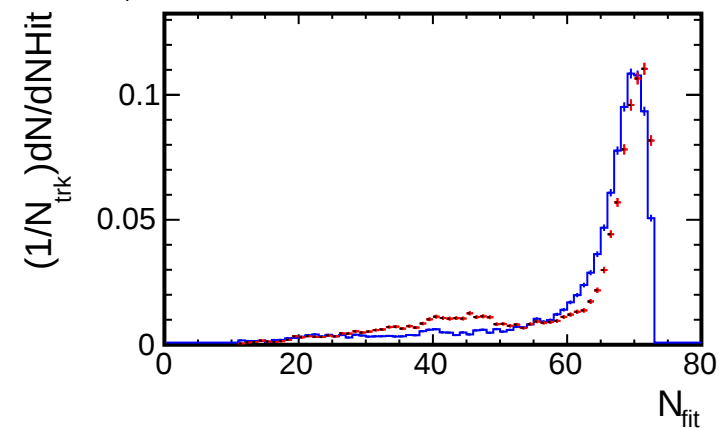
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

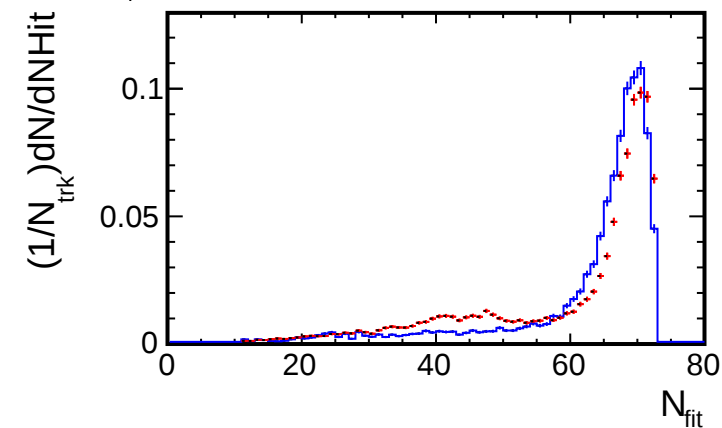
1.8, $1.5 < p_T < 2.0$ (GeV/c)



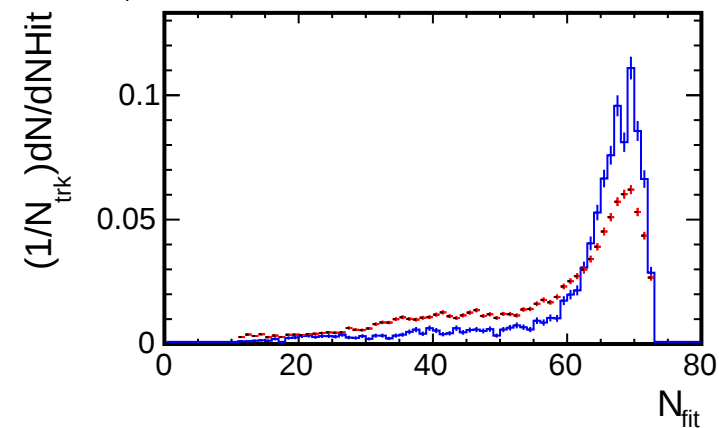
1.6, $1.5 < p_T < 2.0$ (GeV/c)



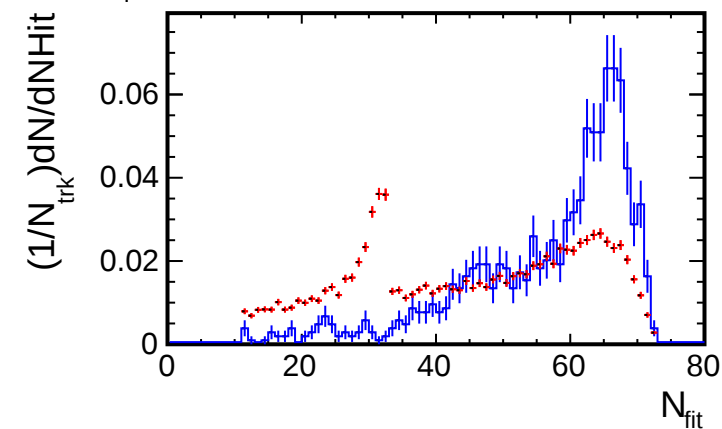
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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



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

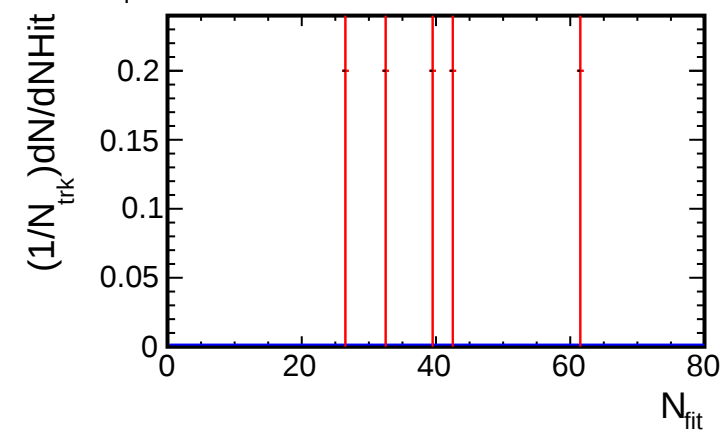


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

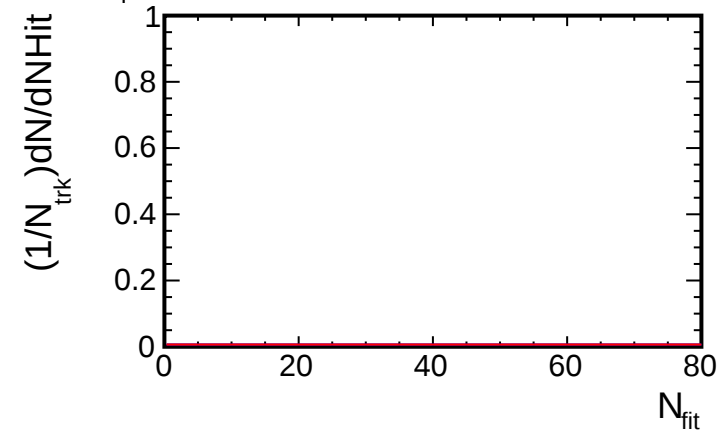
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

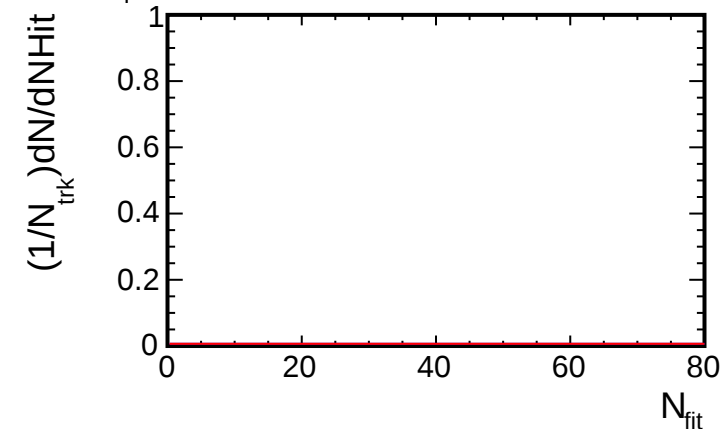
2, $1.5 < p_T < 2.0$ (GeV/c)



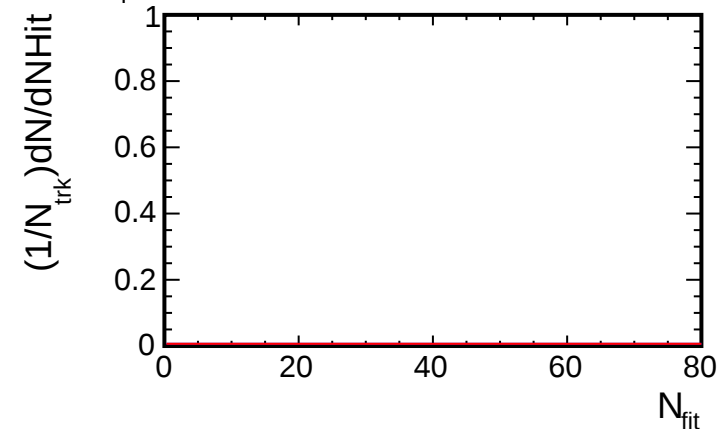
4, $1.5 < p_T < 2.0$ (GeV/c)



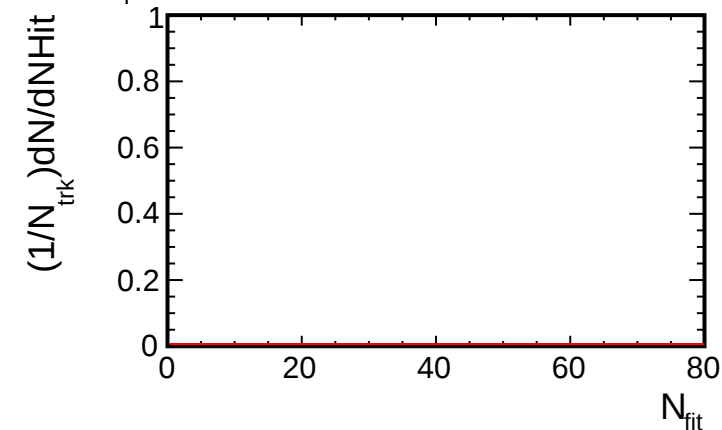
6, $1.5 < p_T < 2.0$ (GeV/c)



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



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

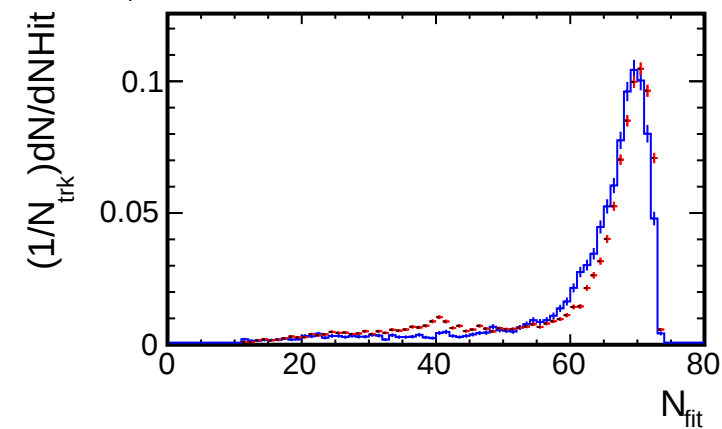


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

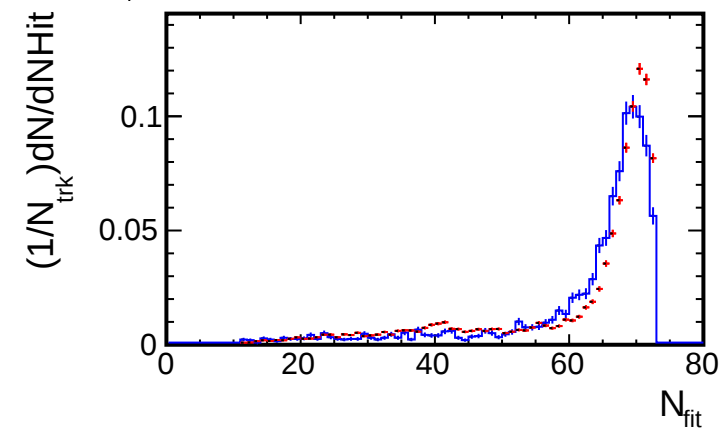
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

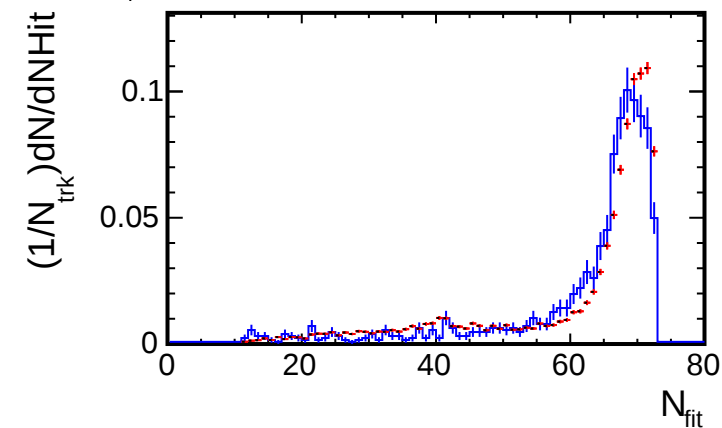
1.8, $2.0 < p_T < 2.5$ (GeV/c)



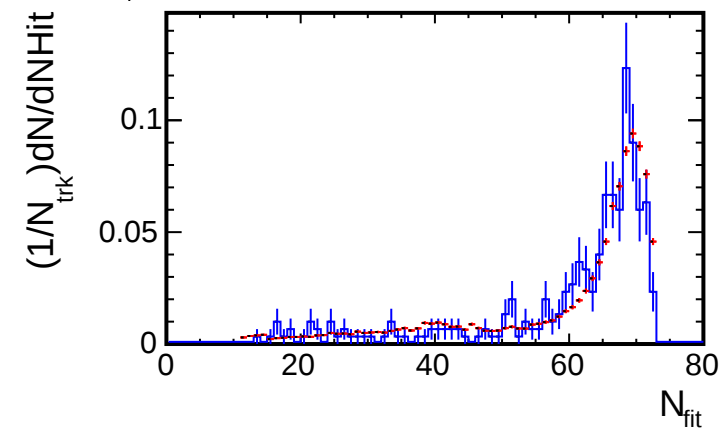
1.6, $2.0 < p_T < 2.5$ (GeV/c)



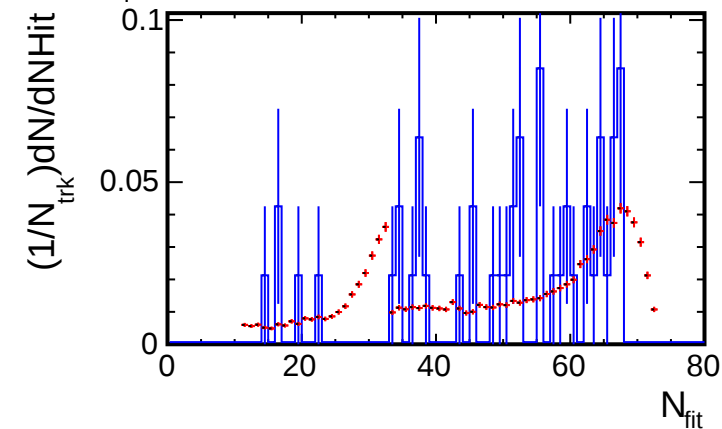
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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



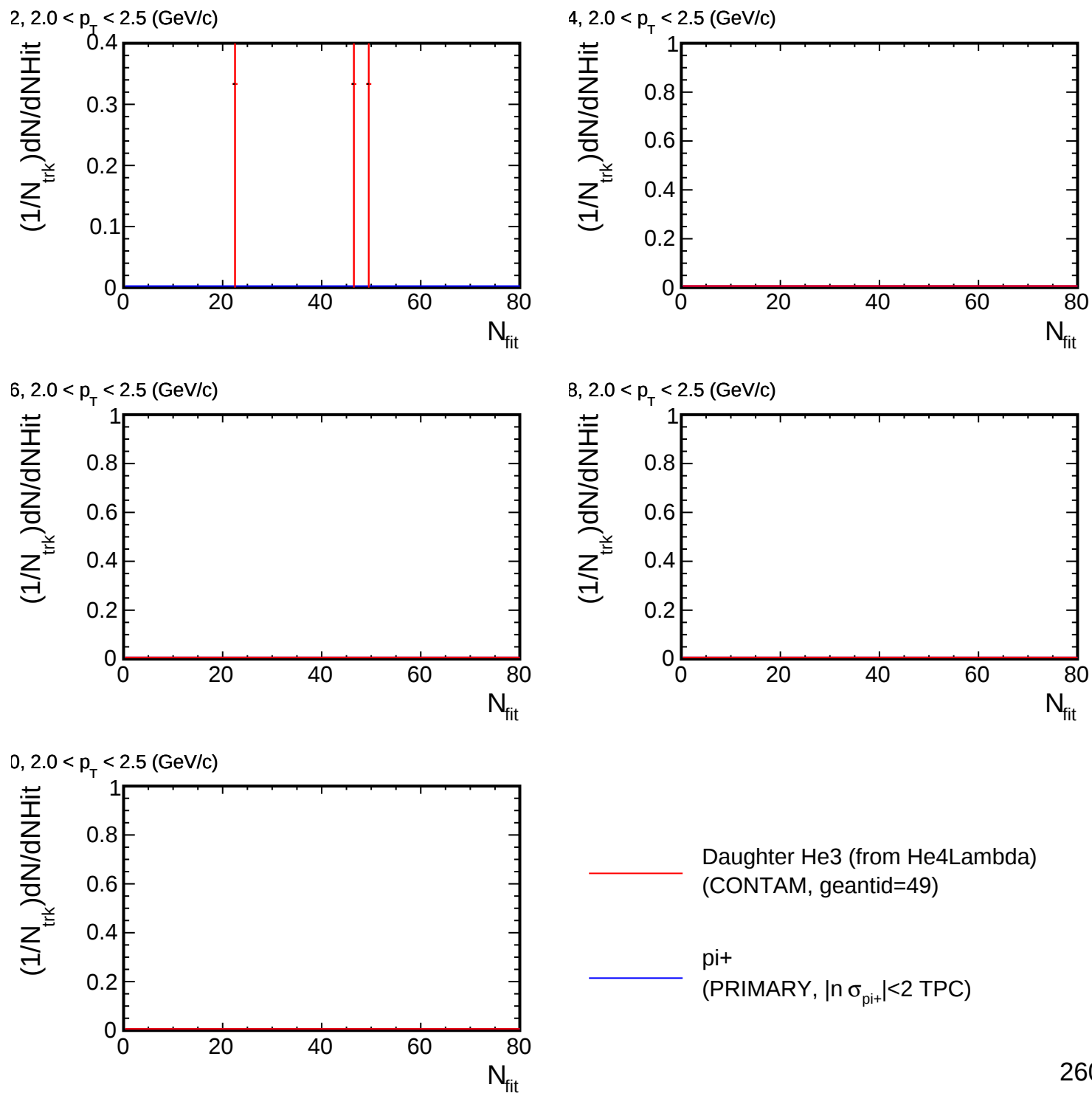
1.0, $2.0 < p_T < 2.5$ (GeV/c)



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

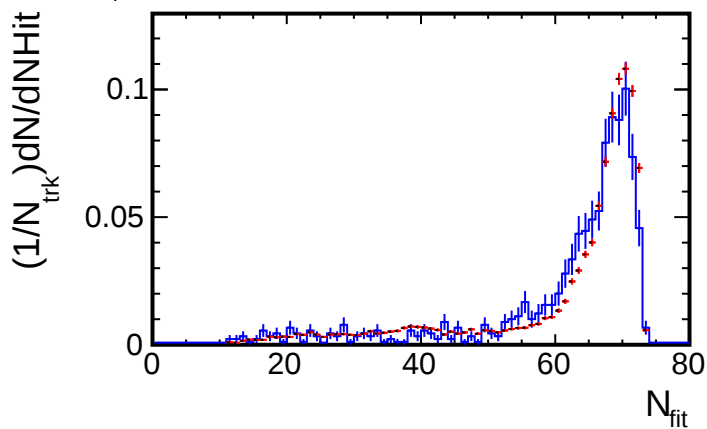
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

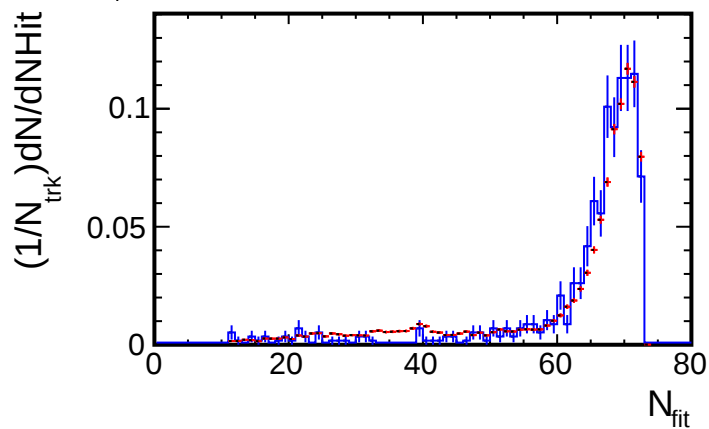


NHit distribution for (p_T , η) slices

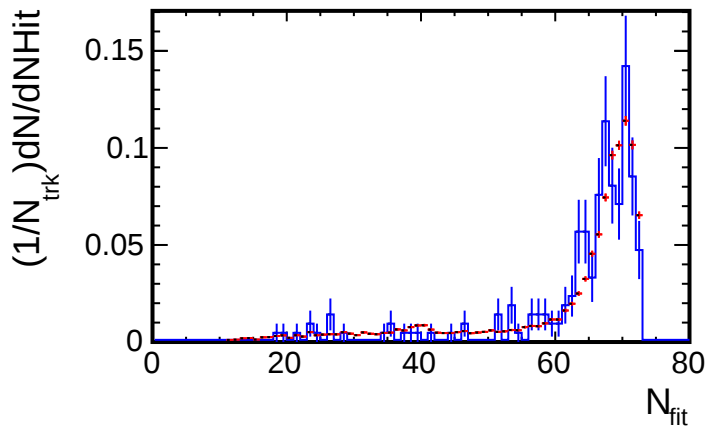
1.8, $2.5 < p_T < 3.0$ (GeV/c)



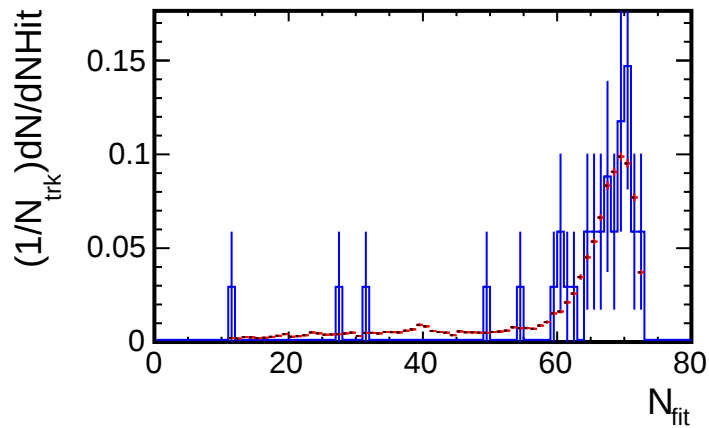
1.6, $2.5 < p_T < 3.0$ (GeV/c)



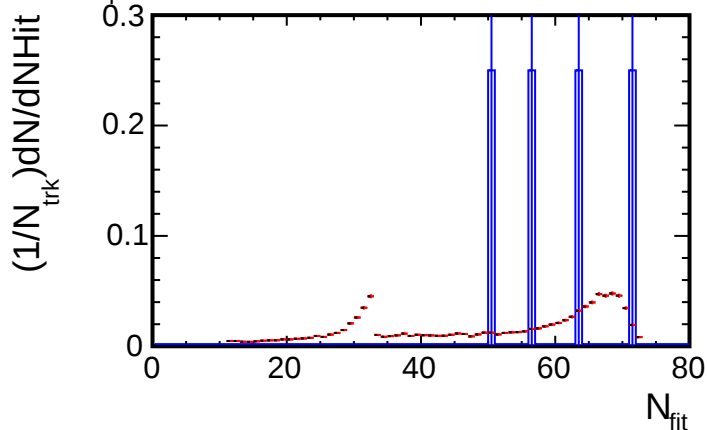
1.4, $2.5 < p_T < 3.0$ (GeV/c)



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



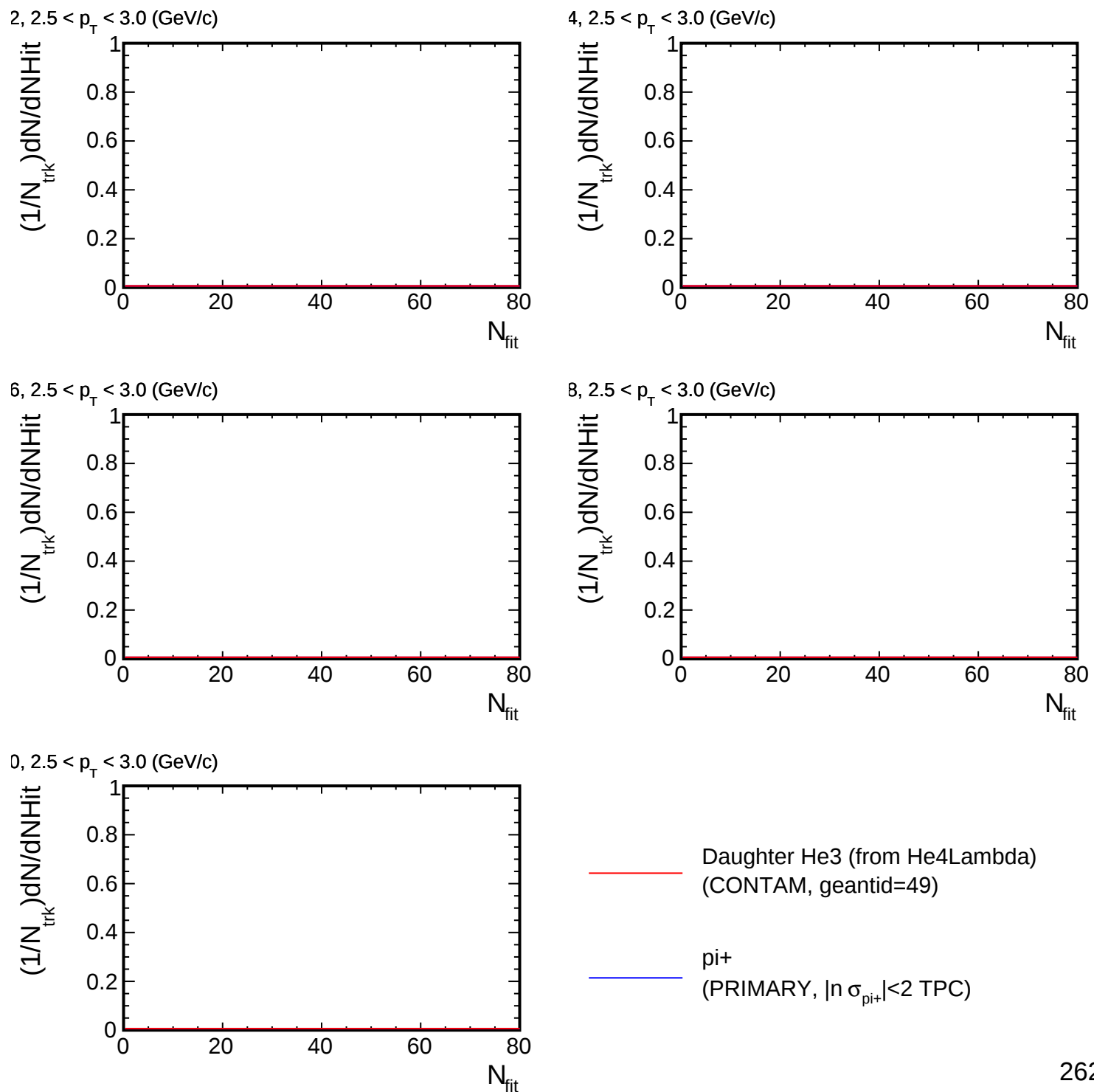
1.0, $2.5 < p_T < 3.0$ (GeV/c)



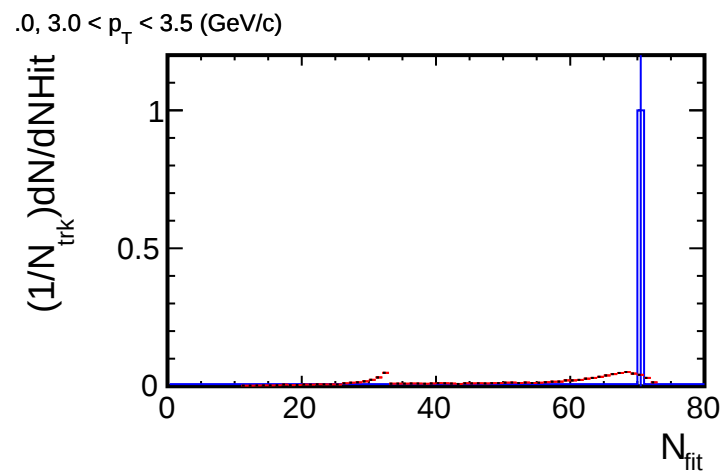
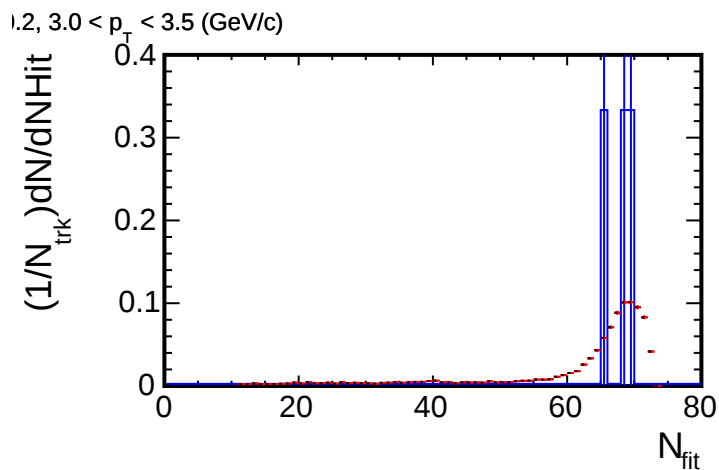
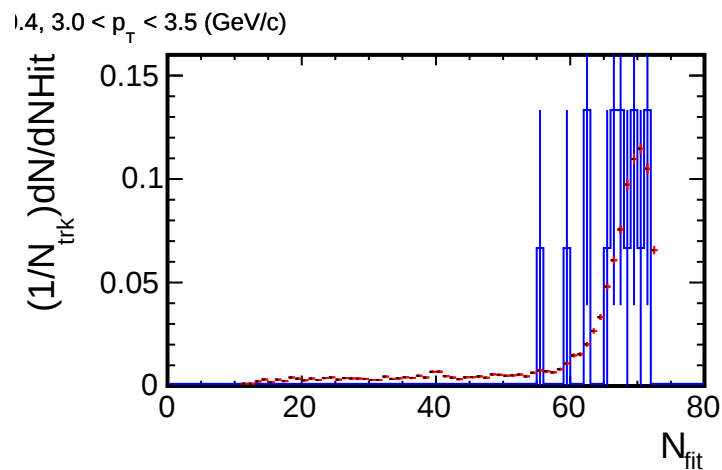
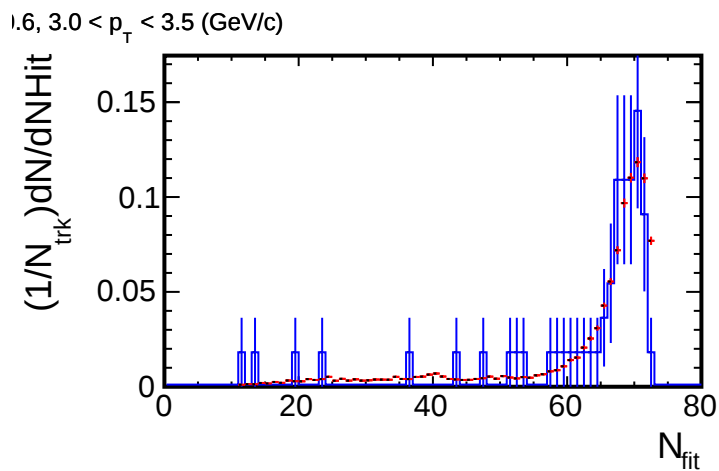
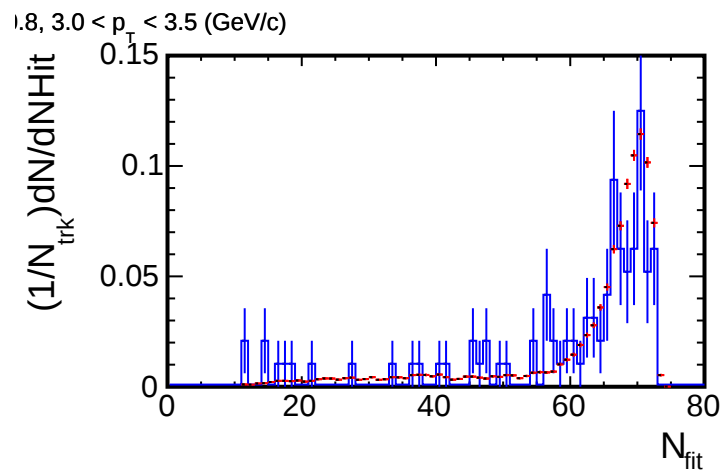
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

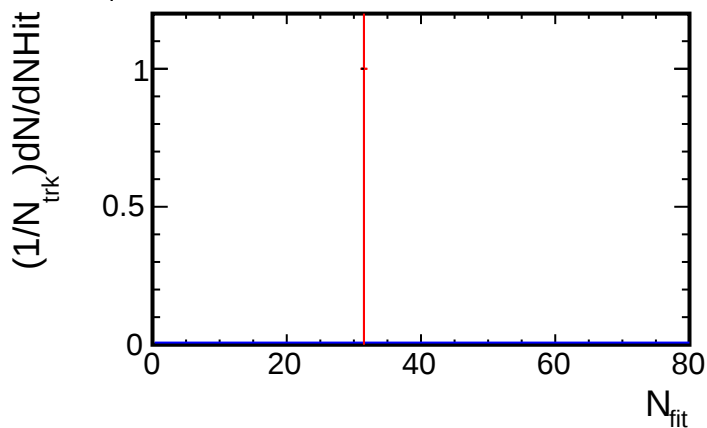


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

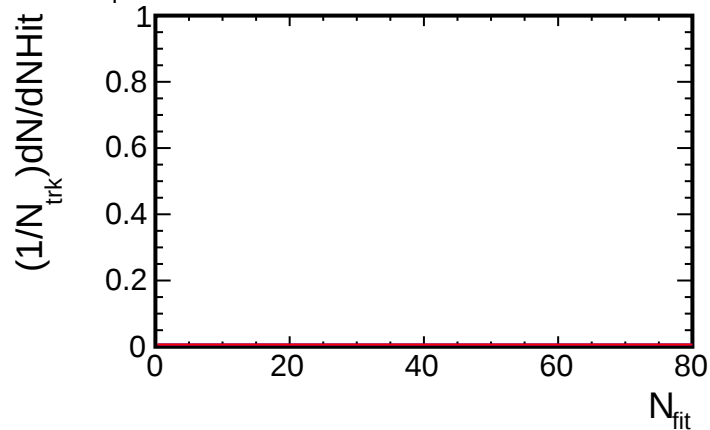
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

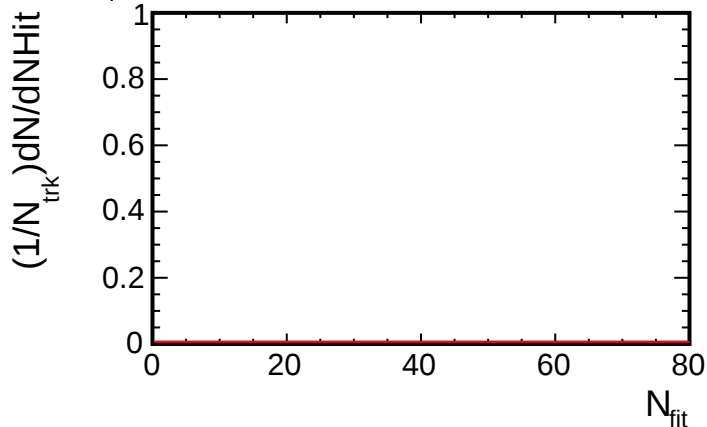
2, $3.0 < p_T < 3.5$ (GeV/c)



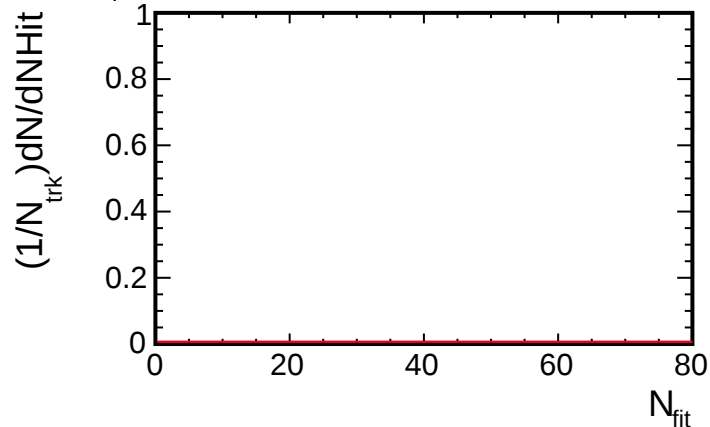
4, $3.0 < p_T < 3.5$ (GeV/c)



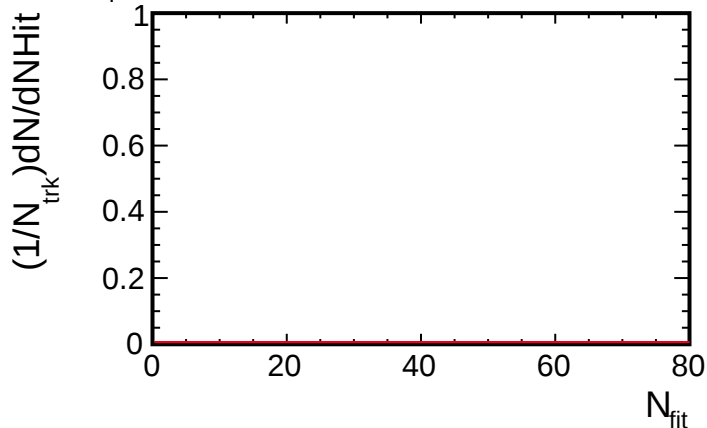
6, $3.0 < p_T < 3.5$ (GeV/c)



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



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

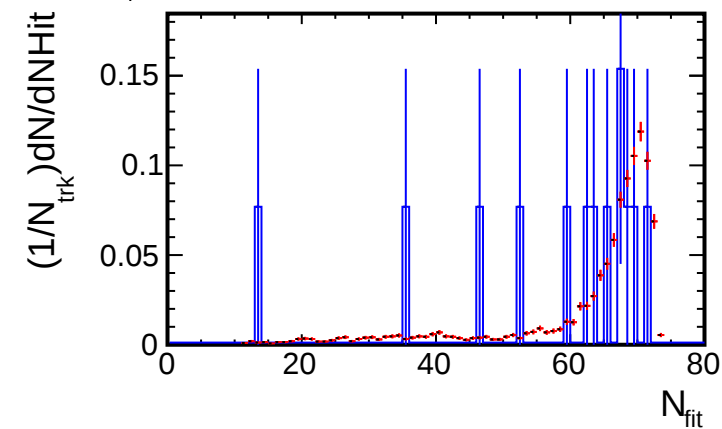


— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

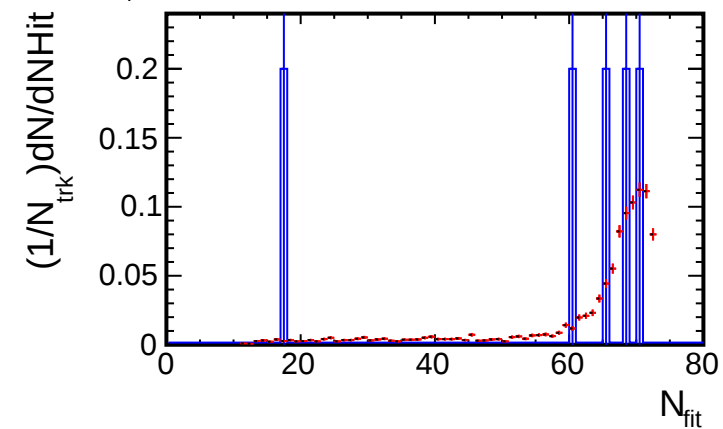
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

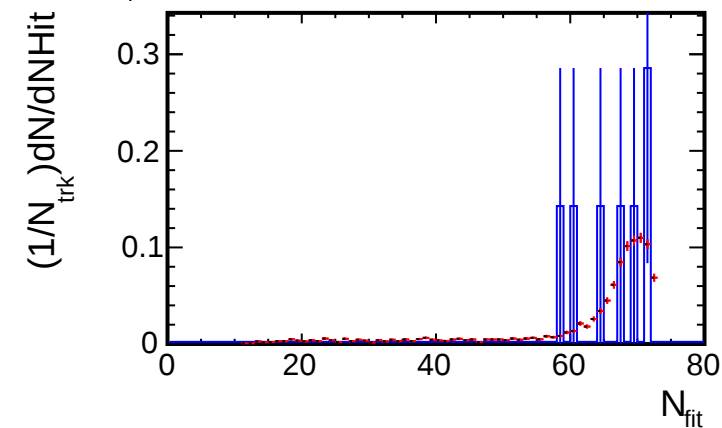
1.8, $3.5 < p_T < 4.0$ (GeV/c)



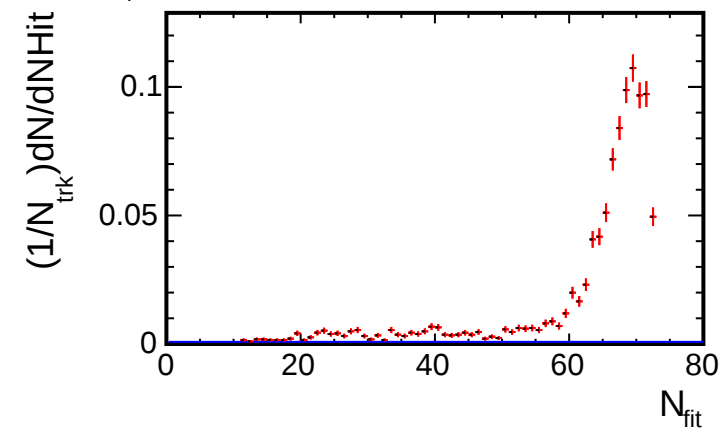
1.6, $3.5 < p_T < 4.0$ (GeV/c)



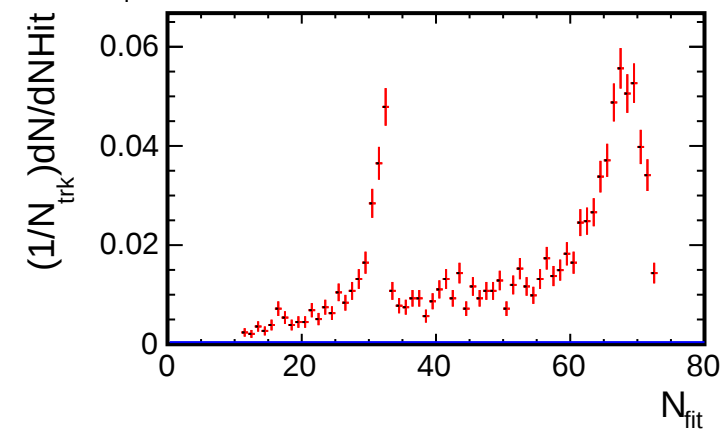
1.4, $3.5 < p_T < 4.0$ (GeV/c)



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



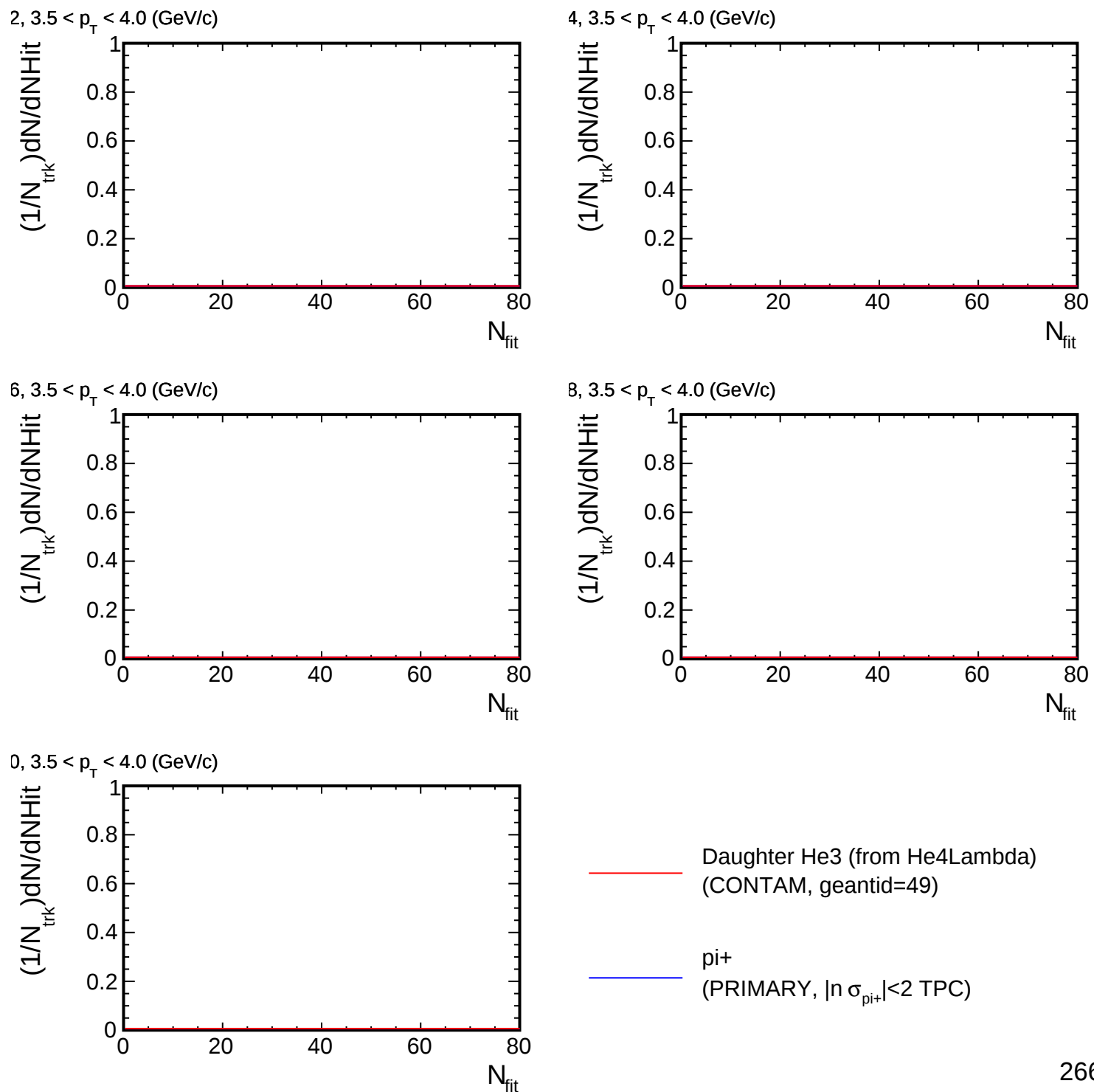
1.0, $3.5 < p_T < 4.0$ (GeV/c)



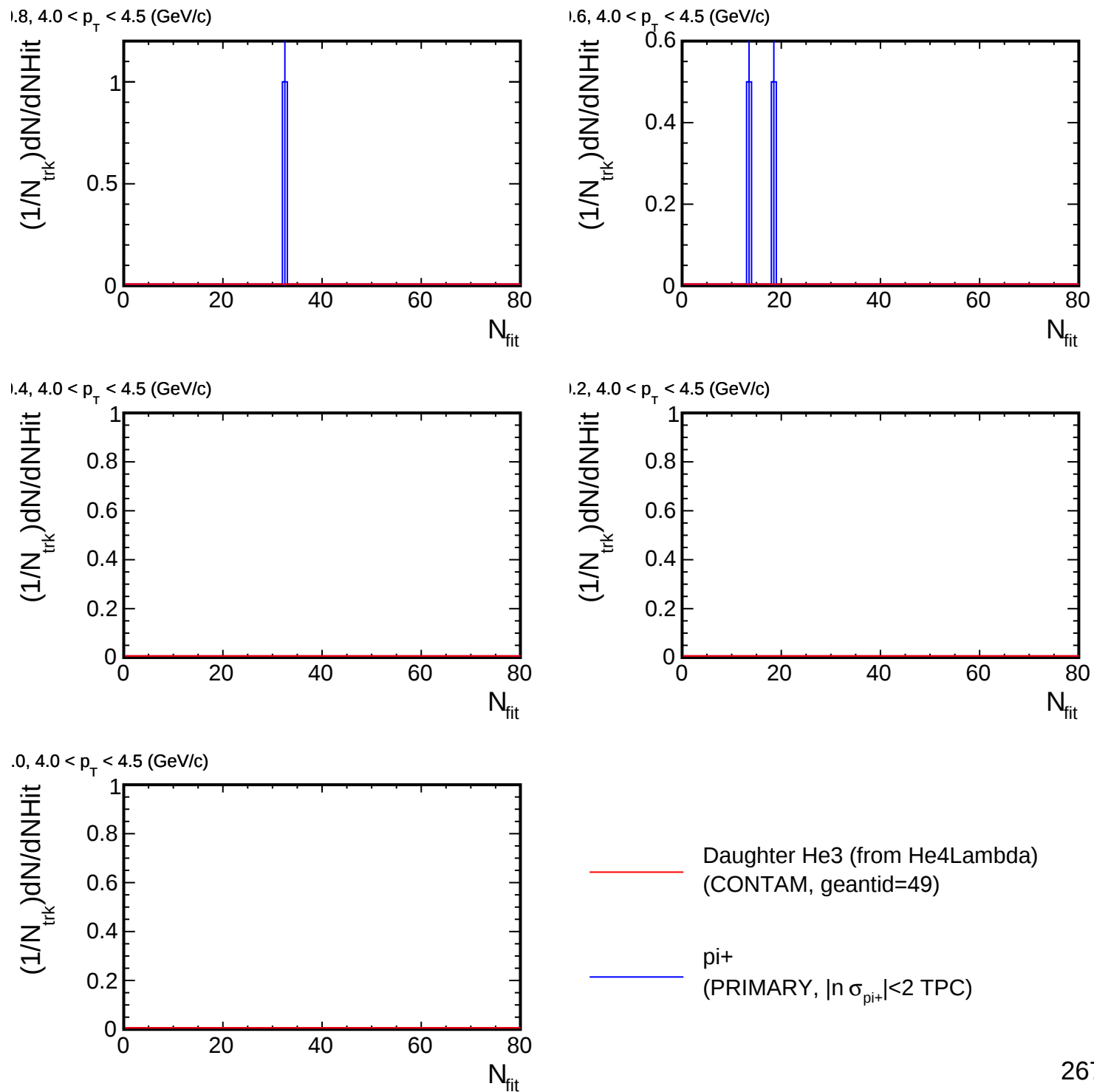
— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

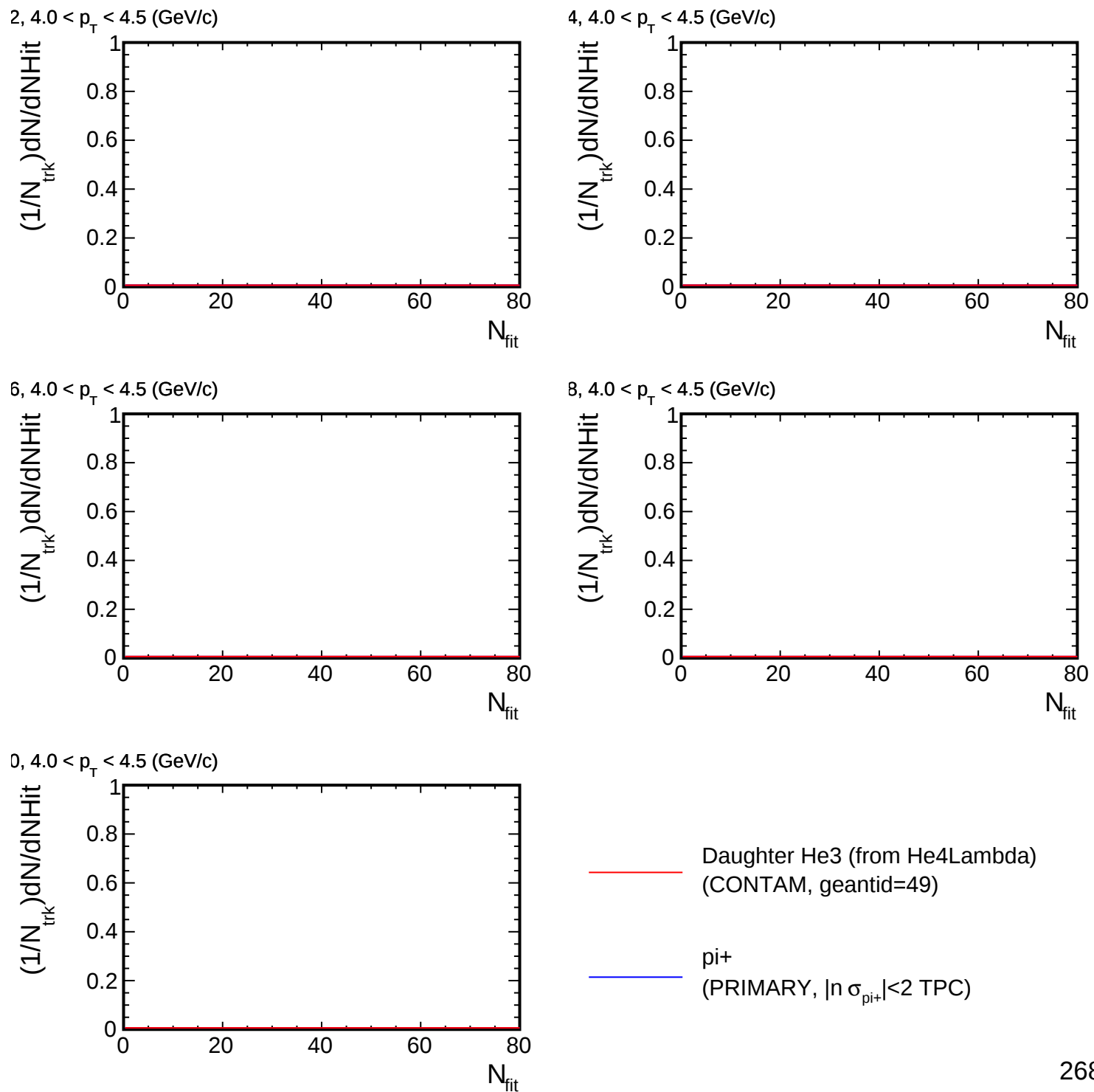
NHit distribution for (p_T , η) slices



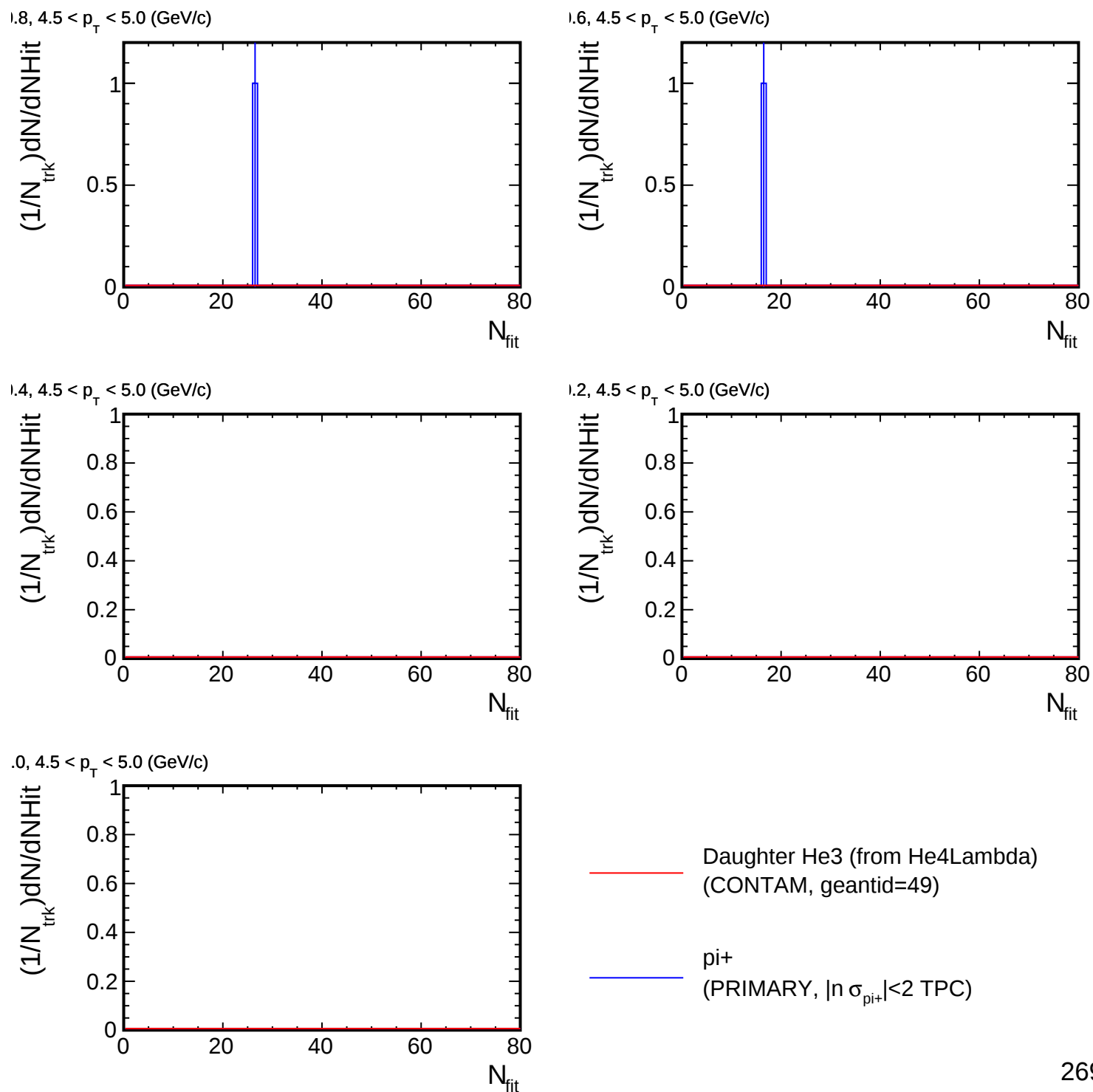
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices

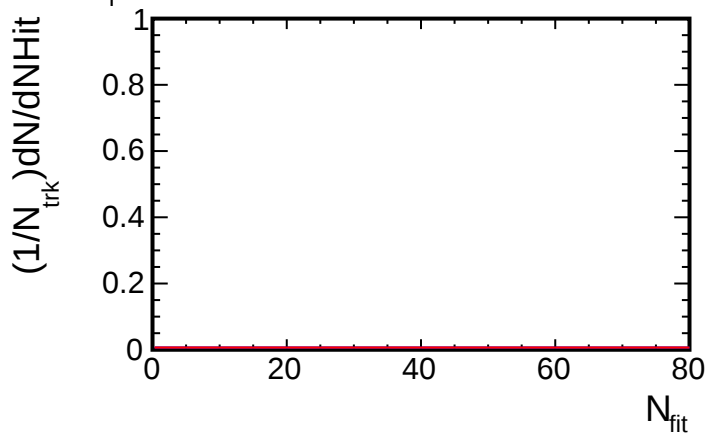


NHit distribution for (p_T , η) slices

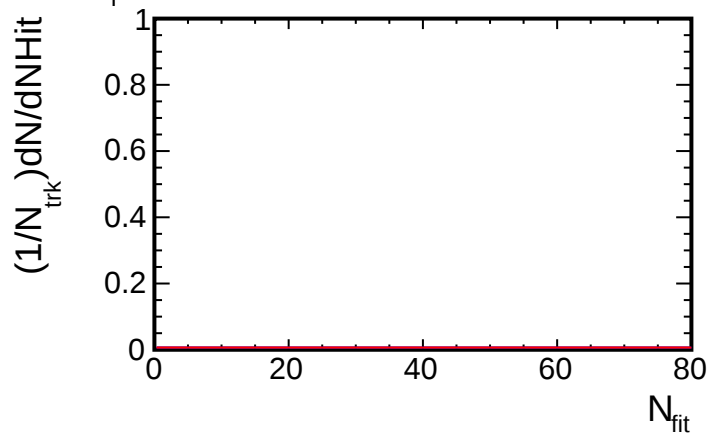


NHit distribution for (p_T , η) slices

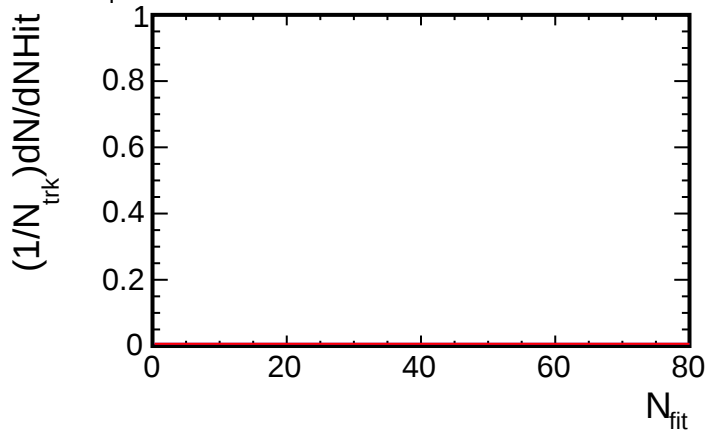
2, $4.5 < p_T < 5.0$ (GeV/c)



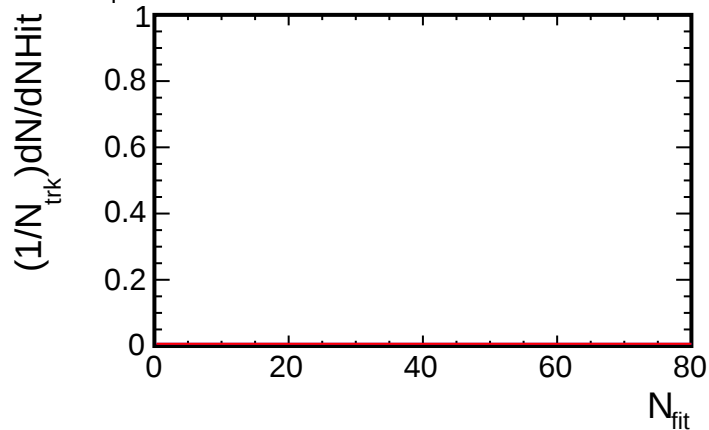
4, $4.5 < p_T < 5.0$ (GeV/c)



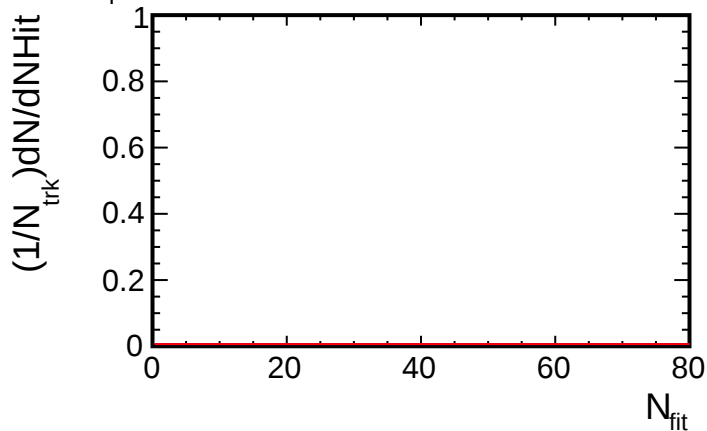
6, $4.5 < p_T < 5.0$ (GeV/c)



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



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



— Daughter He3 (from He4Lambda)
(CONTAM, geantid=49)

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

End of QA