

Embedding QA

embedding + real

Color code for embedding and real data

———— MC (black)

———— Reconstructed embedding tracks* (red)

———— Real** (blue)

* matched pairs or contaminated pairs

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

Event & track selections

*** Event selections

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

trigger id cut : id = 740000, 740010

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

*** Track selections

$0.0 < p_T < 5.0$ GeV/c

$|\eta| < 10.00$

$|y| < 2.20$

nHitsFit > 10

nHitsFit/nHitsPoss > 0.51

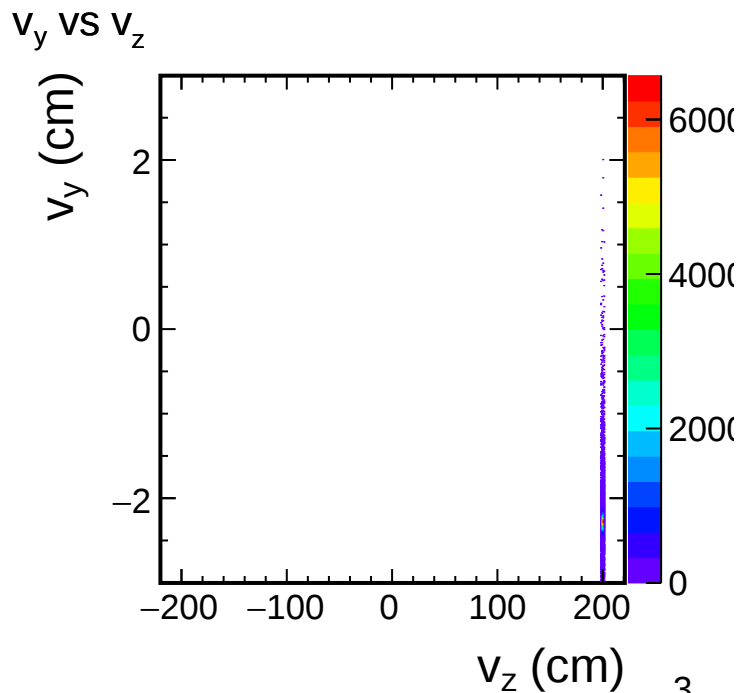
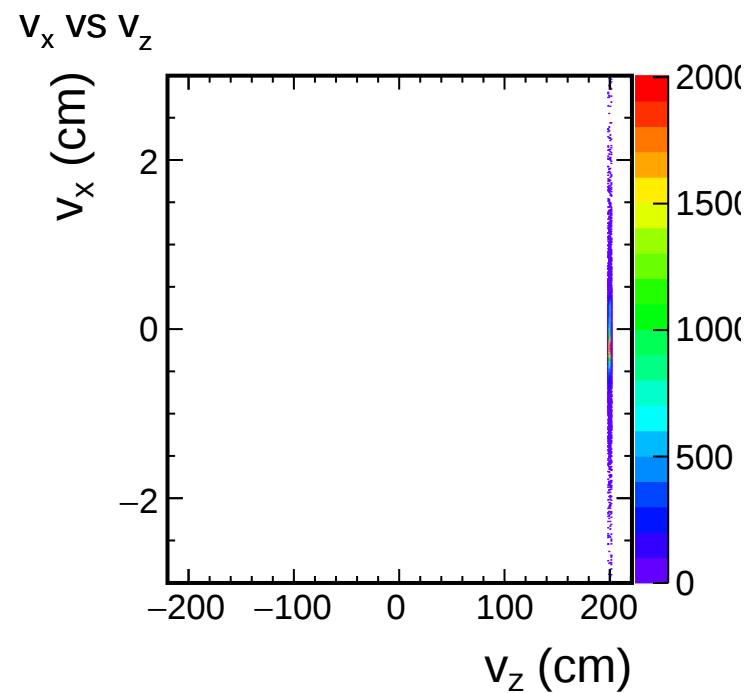
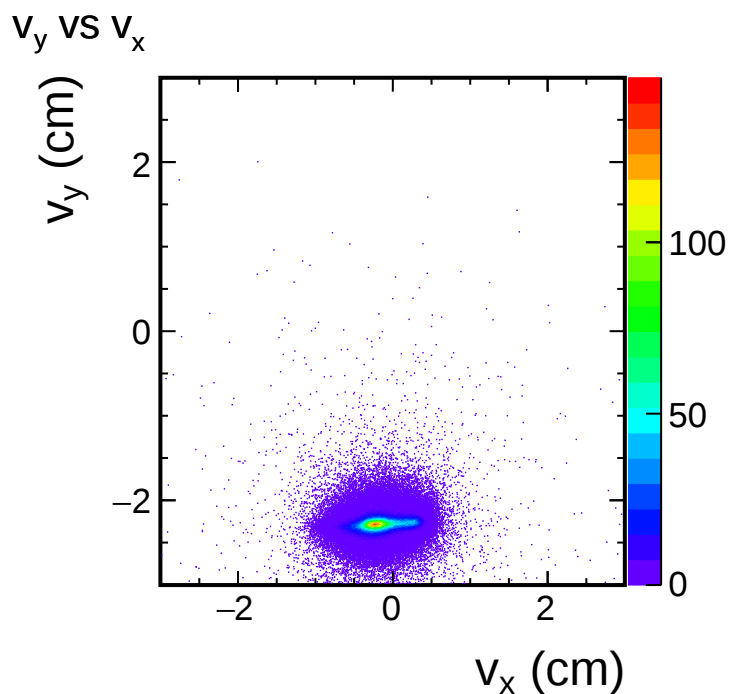
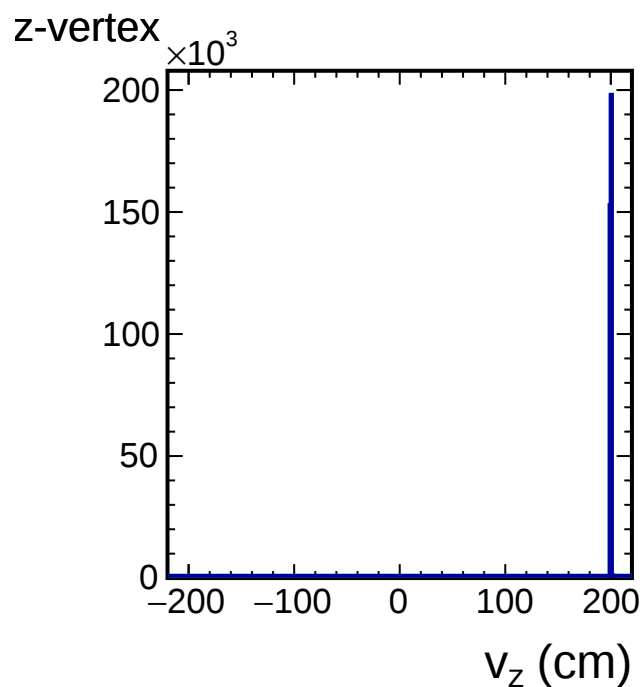
global Dca < 3.0 cm

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

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

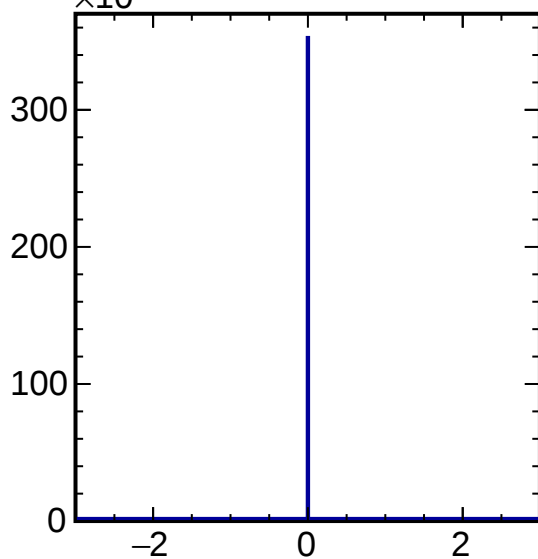
NOTE2: Cut on its own variable is currently disabled, e.x. no dca cut for dca histogram

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



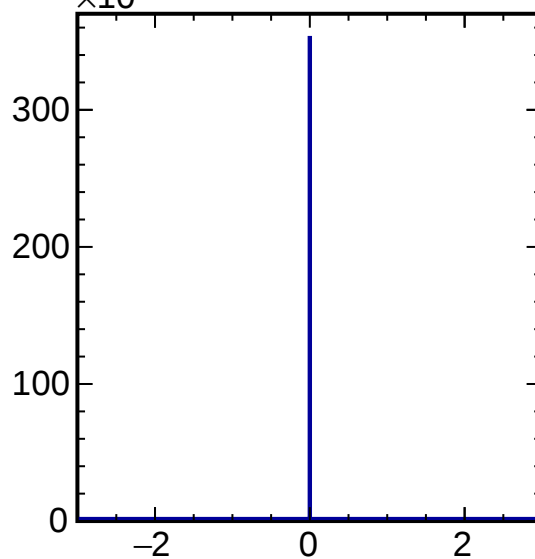
Event vertices, $\Delta v = v(\text{Data}) - v(\text{MC})$

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



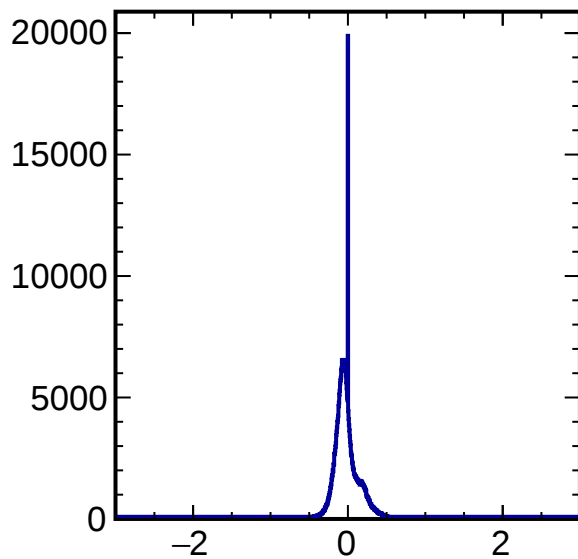
$$\Delta v_x = v_x - v_x(\text{MC}) \text{ (cm)}$$

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



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

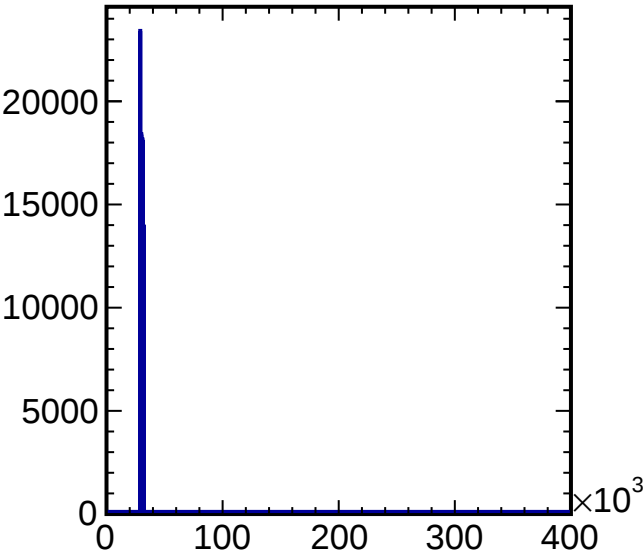
$$= v_z - v_z(\text{MC})$$



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

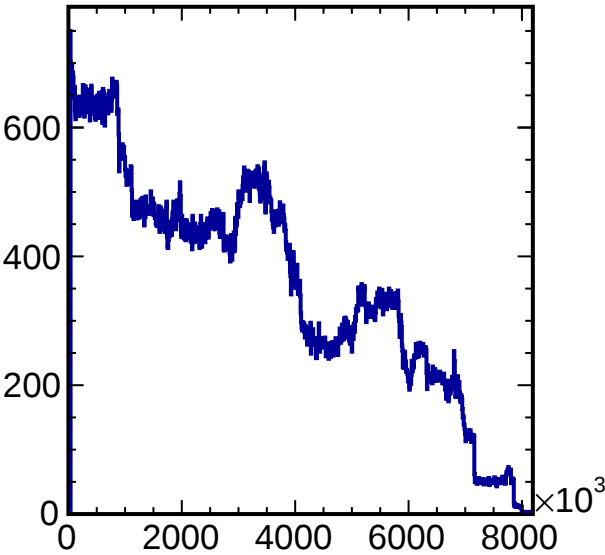
Run and event id

(Year - 1999)×10⁶



Run number

Event id

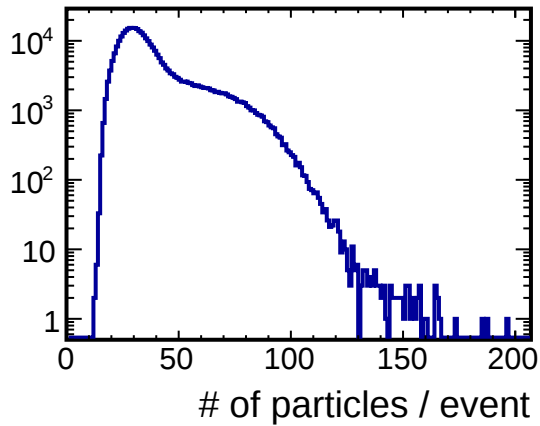


Event id

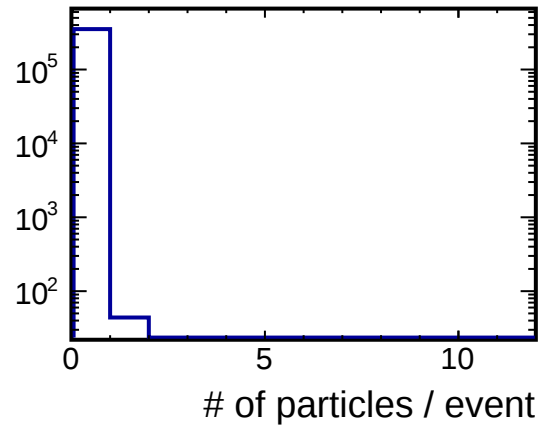
Run id	statistics	Run id	statistics	Run id	statistics	Run id	statistics
21029051	8998 events	21030006	18398 events	21031008	18148 events	21031030	13546 events
21029052	4527 events	21030008	9180 events	21031009	11979 events	21031031	12540 events
21029053	2324 events	21030009	17077 events	21031010	5736 events	21032006	13931 events
21029054	12049 events	21030011	13502 events	21031012	15424 events	21032007	97 events
21029055	10467 events	21031002	6221 events	21031013	230 events	21032008	5034 events
21029057	23410 events	21031003	1377 events	21031014	13380 events	21032010	9039 events
21030001	12291 events	21031004	4146 events	21031015	10467 events	21032013	11284 events
21030002	3231 events	21031005	297 events	21031016	9153 events	21032014	11556 events
21030004	16550 events	21031006	7809 events	21031029	5165 events	21032015	13915 events

Multiplicity distribution

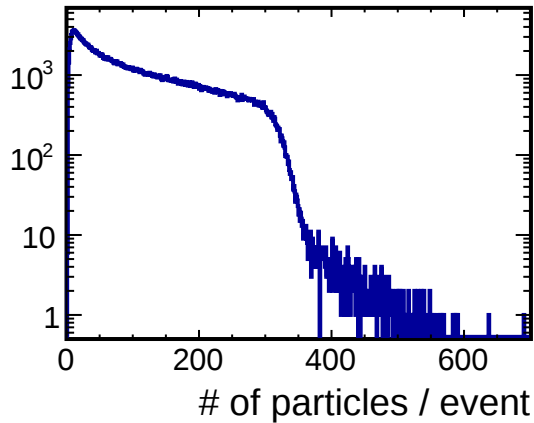
MC tracks



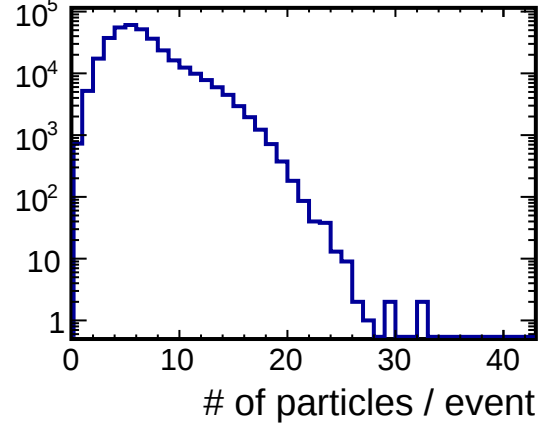
matched pairs



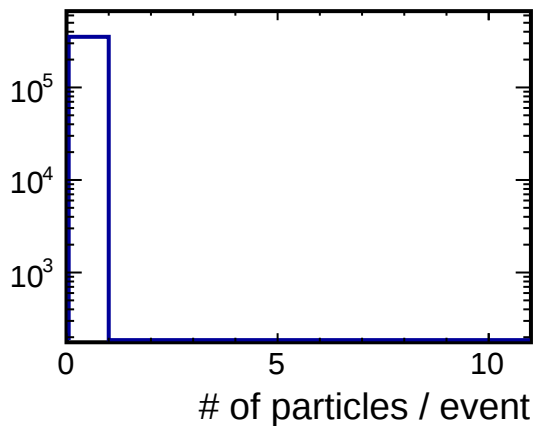
Ghost pairs



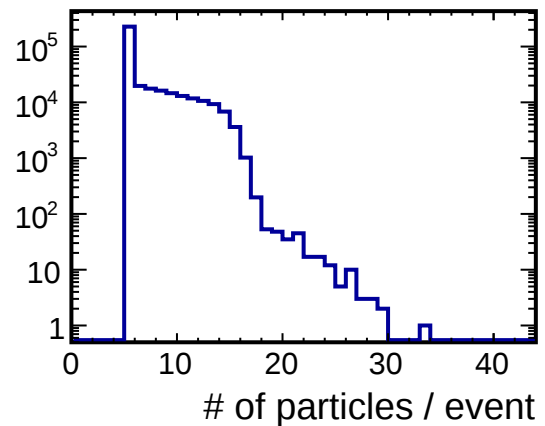
contaminated pairs



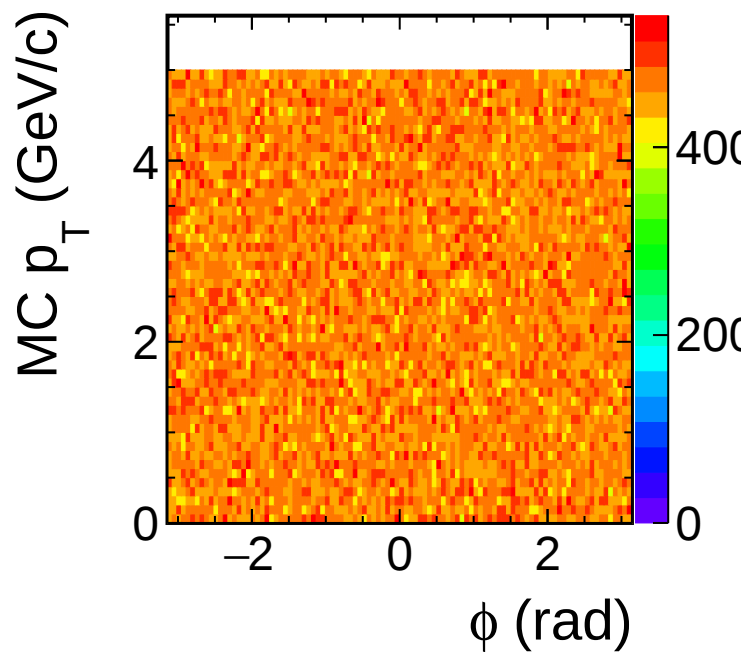
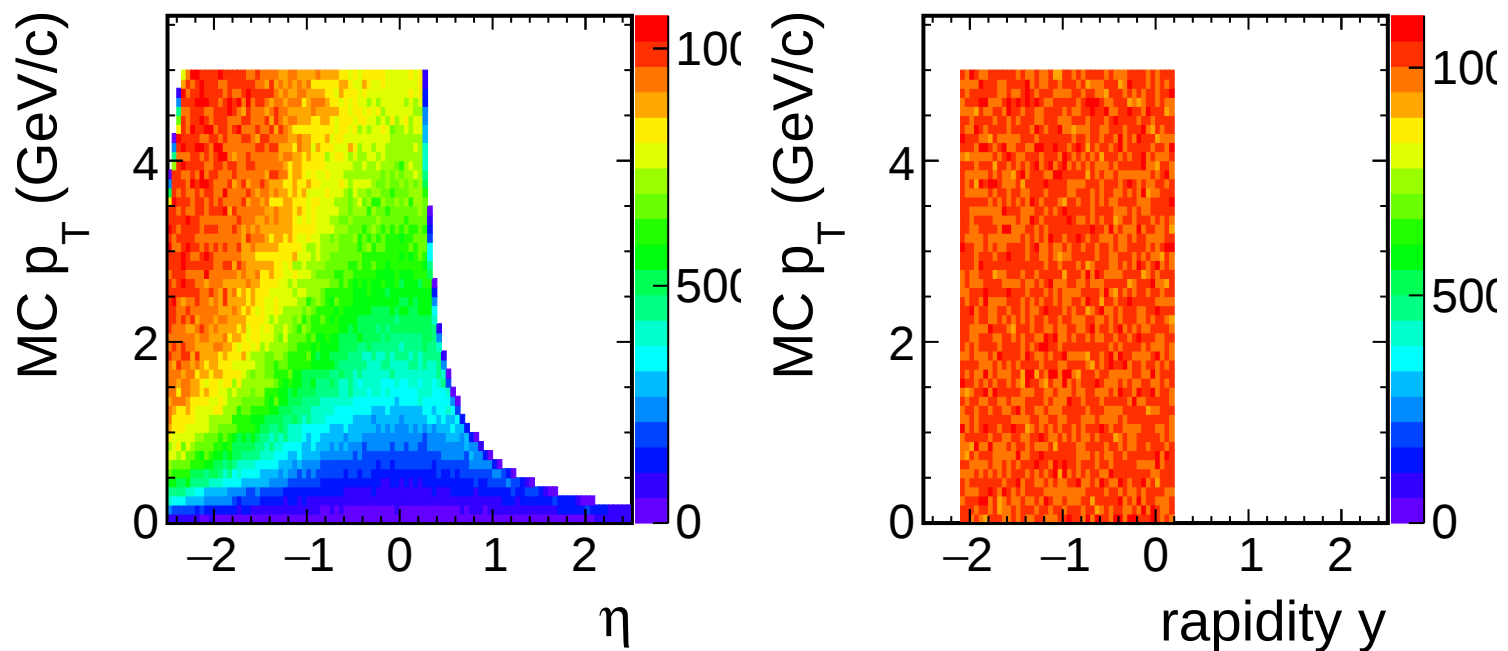
matched global pairs



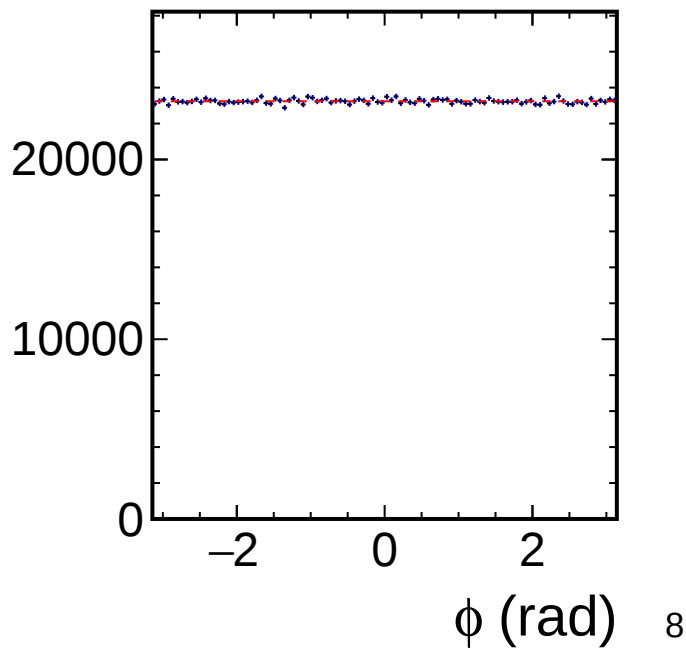
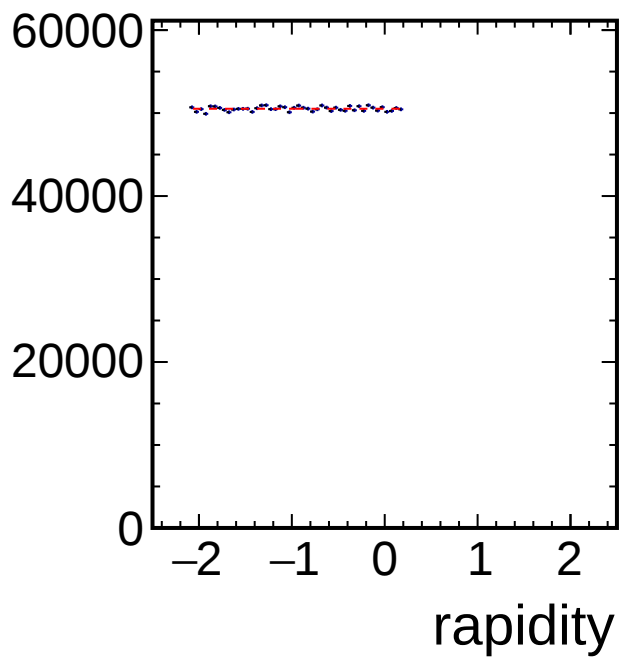
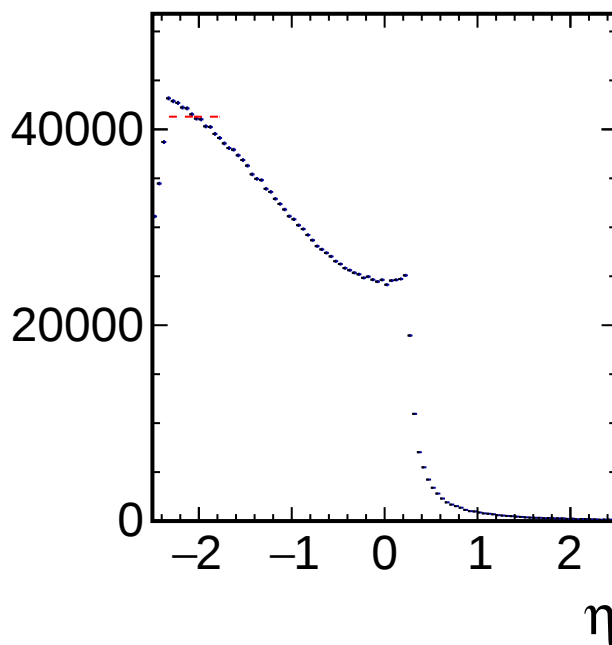
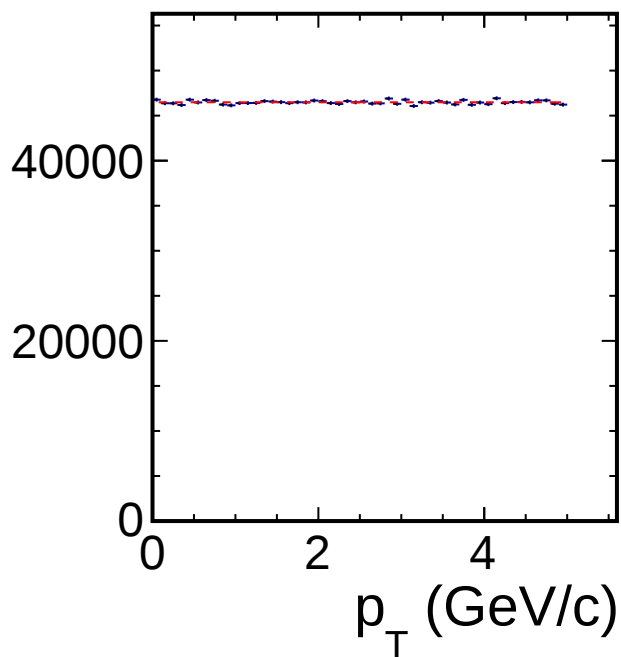
primary MC tracks



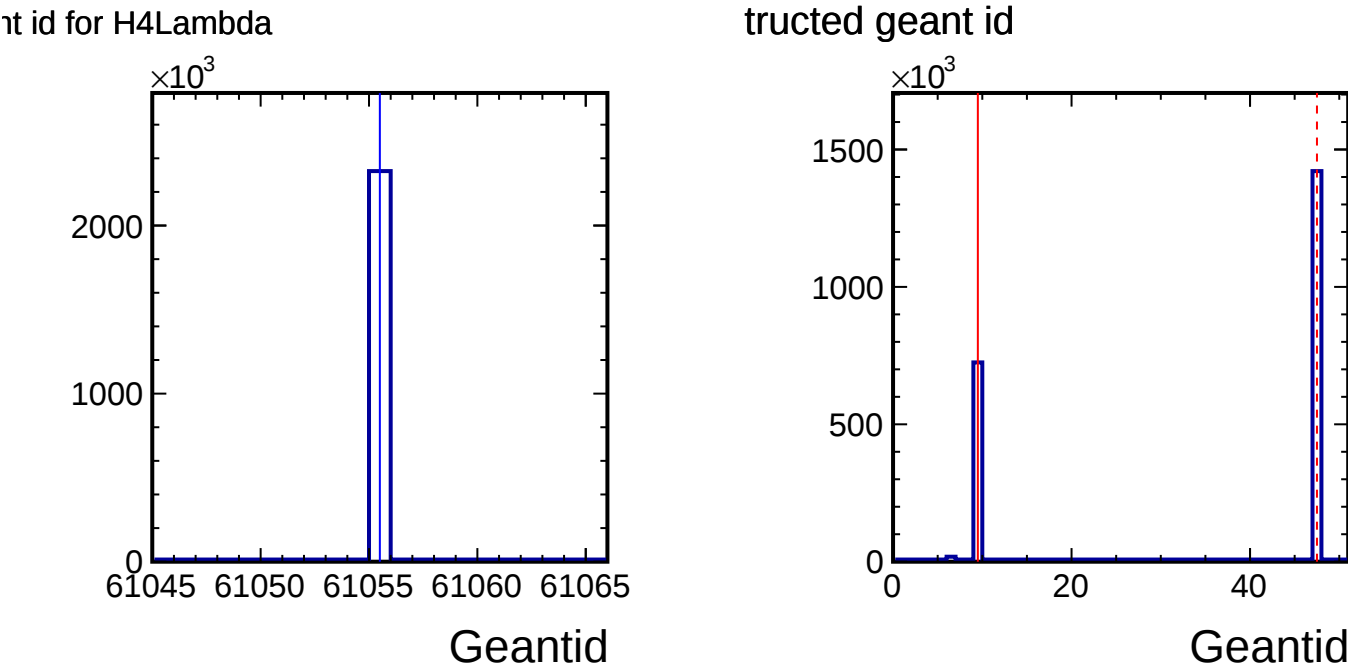
MC track QA (2D)



MC track QA (1D)

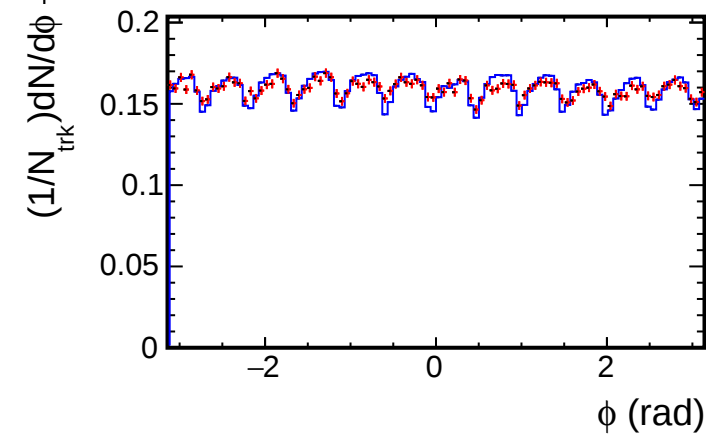
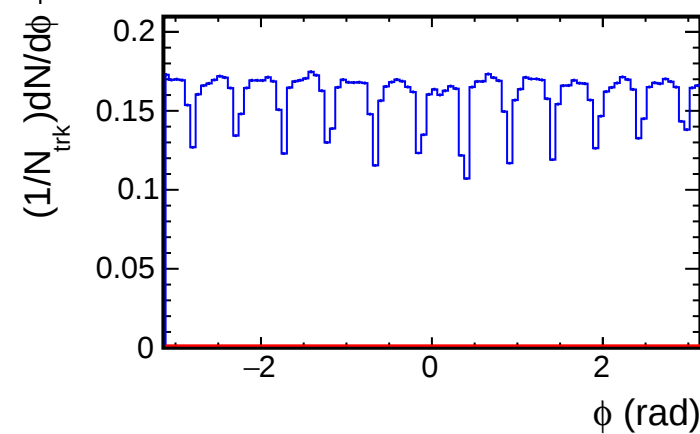
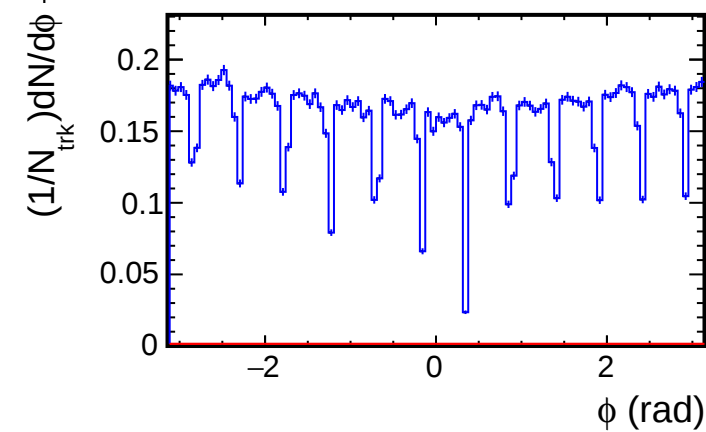
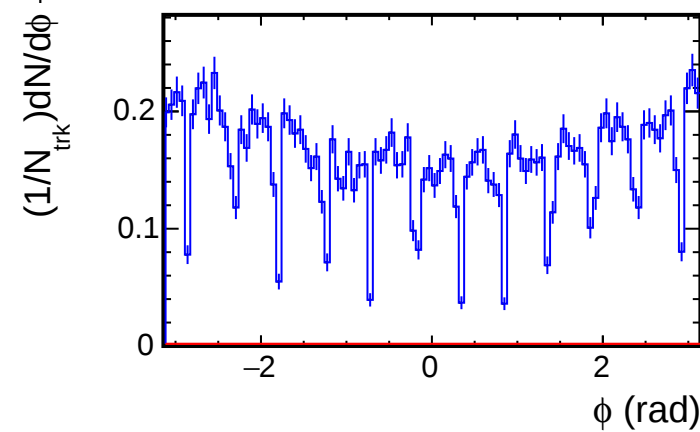
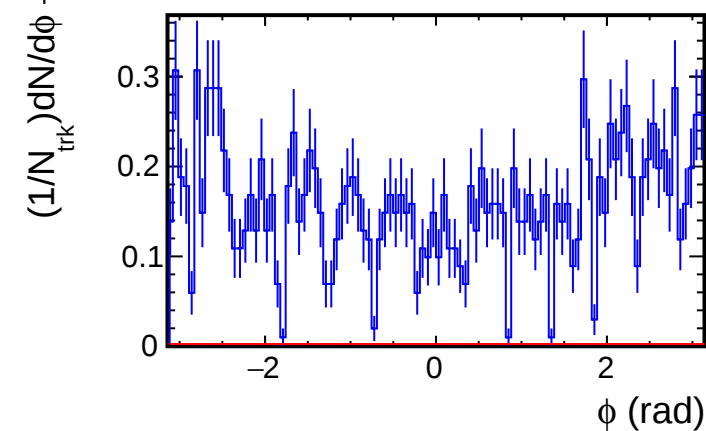


Geant id



Particle informations

- Parent H4Lambda (MC, geantid=61055)
- Daughter pi- (from H4Lambda) (CONTAM, geantid=9)
- - - Daughter alpha (from H4Lambda) (CONTAM, geantid=47)

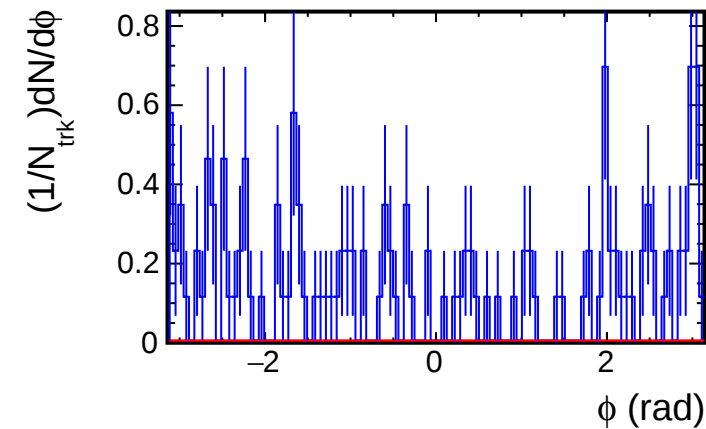
Projection of ϕ for each p_T bin $p_T < 0.5$ (GeV/c) $p_T < 1.0$ (GeV/c) $p_T < 1.5$ (GeV/c) $p_T < 2.0$ (GeV/c) $p_T < 2.5$ (GeV/c)

— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

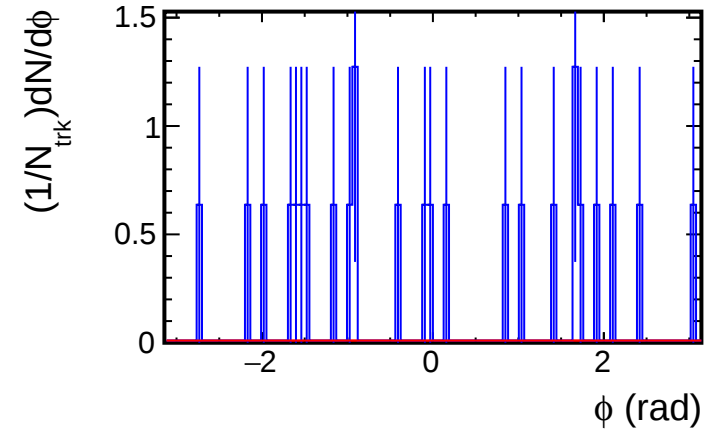
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

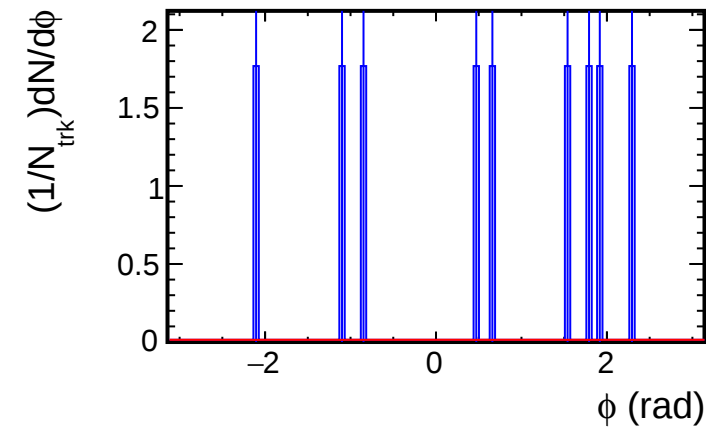
$p_T < 3.0$ (GeV/c)



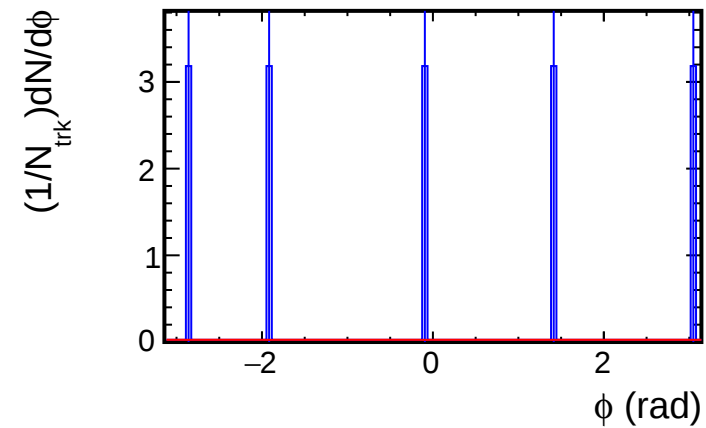
$p_T < 3.5$ (GeV/c)



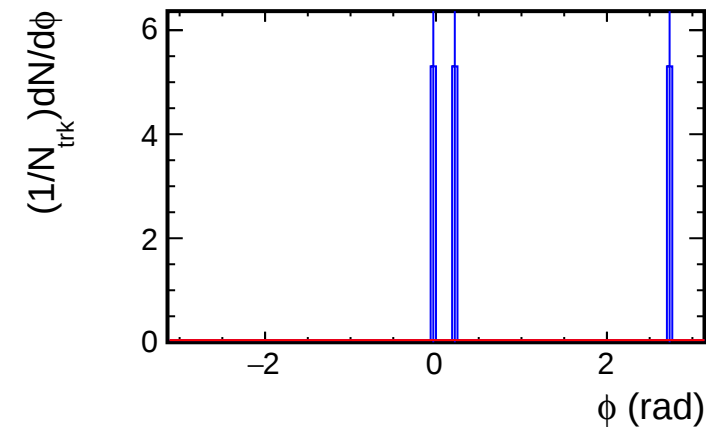
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

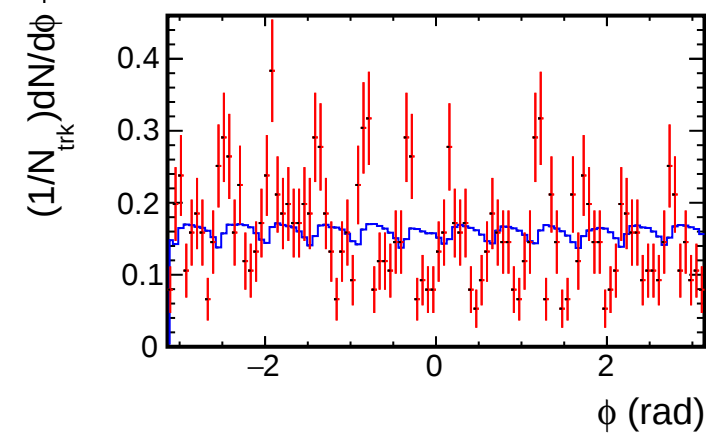


— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

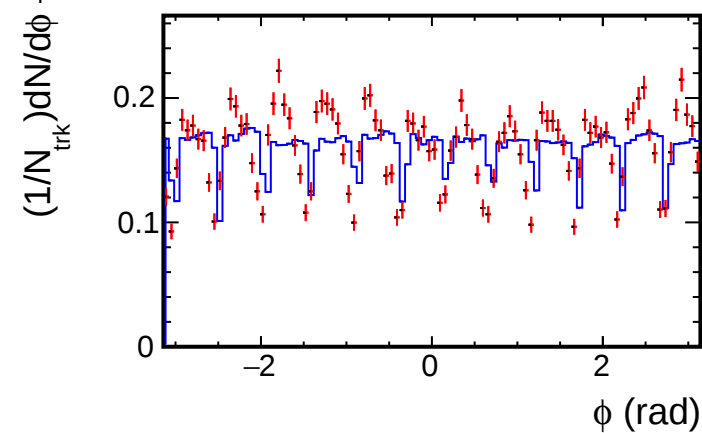
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

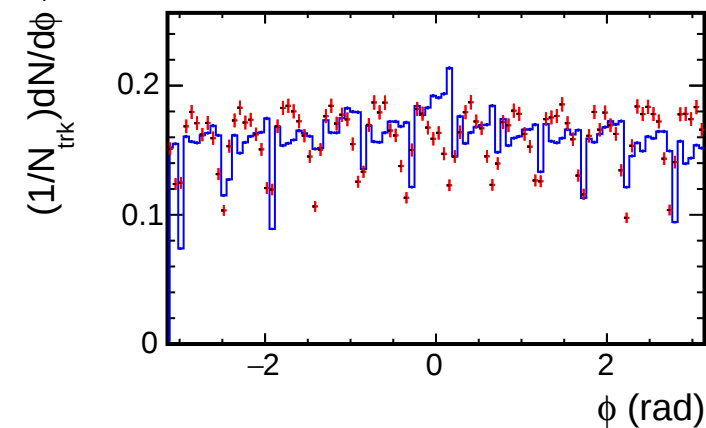
$p_T < 0.5$ (GeV/c)



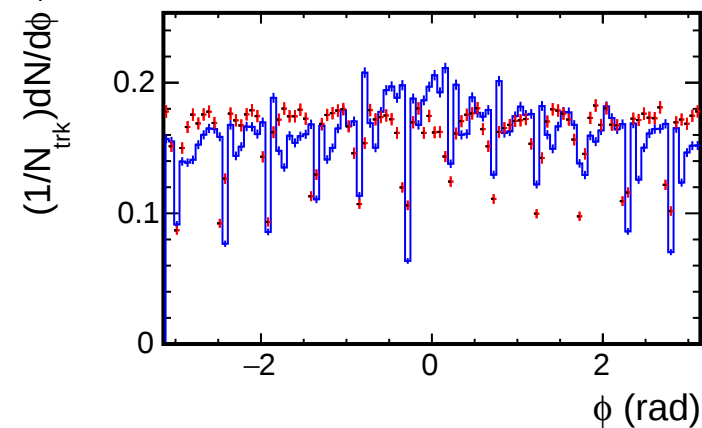
$p_T < 1.0$ (GeV/c)



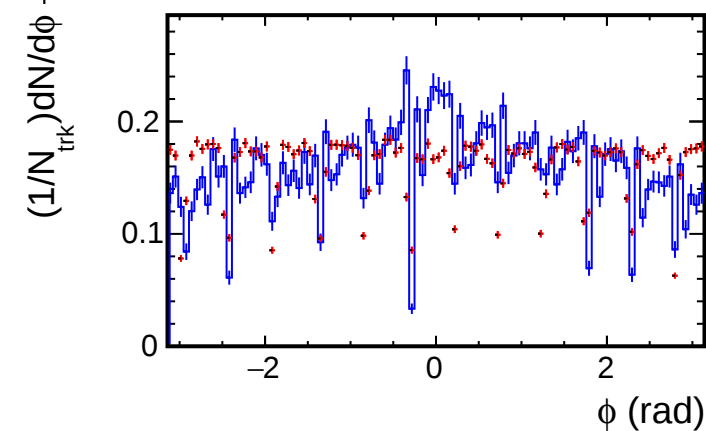
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

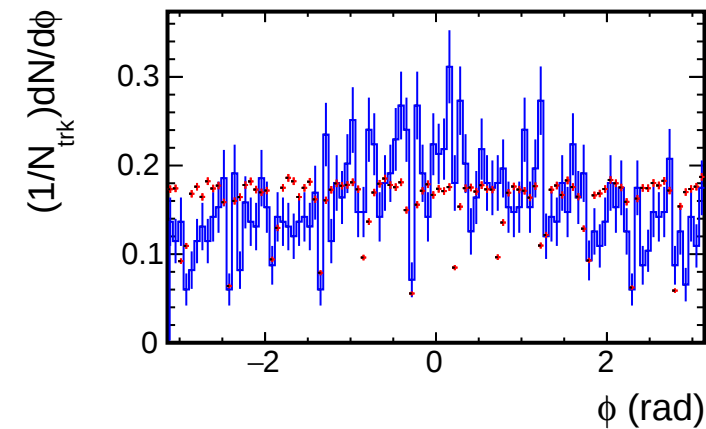


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

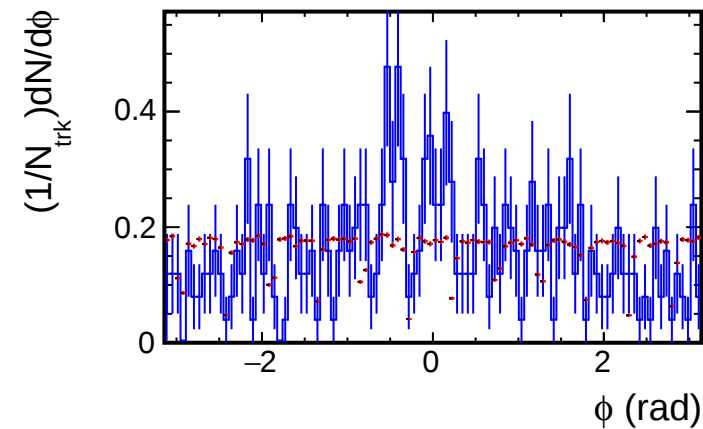
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Projection of ϕ for each p_T bin

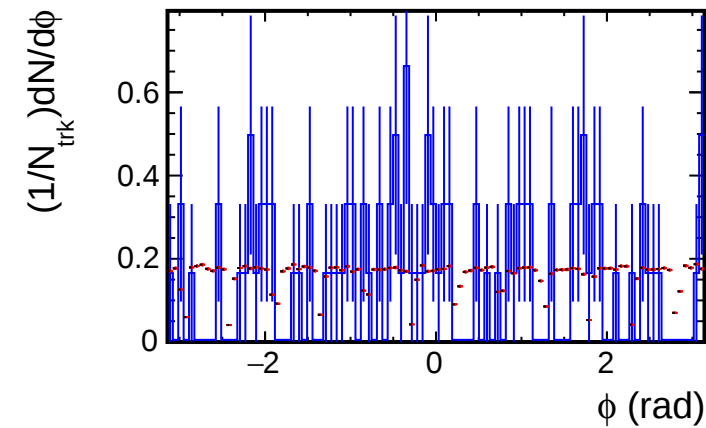
$p_T < 3.0$ (GeV/c)



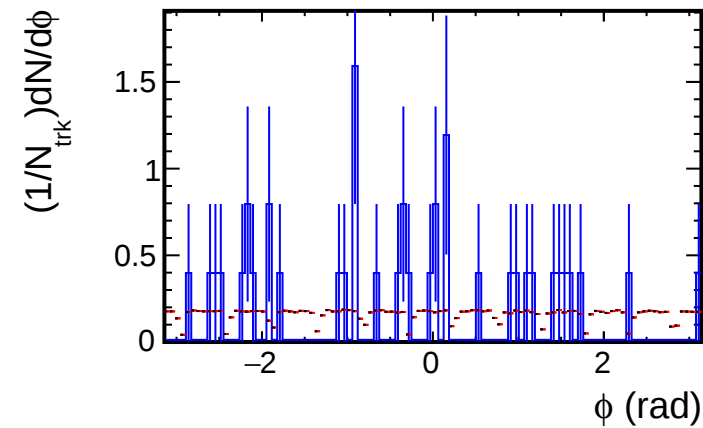
$p_T < 3.5$ (GeV/c)



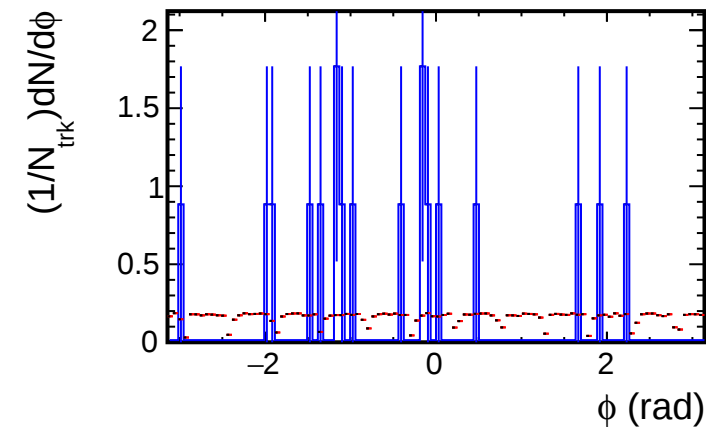
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)

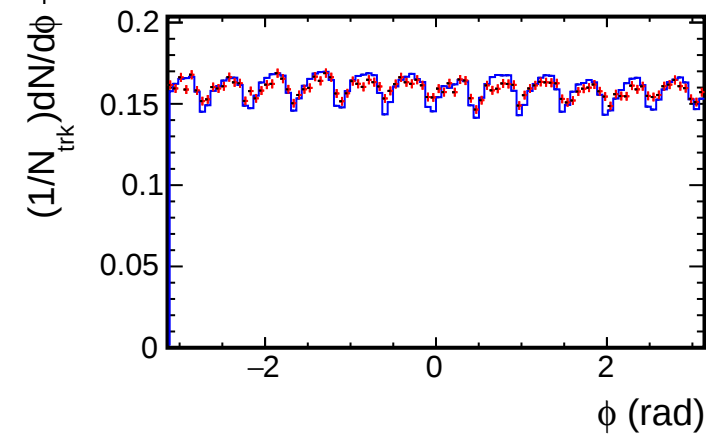
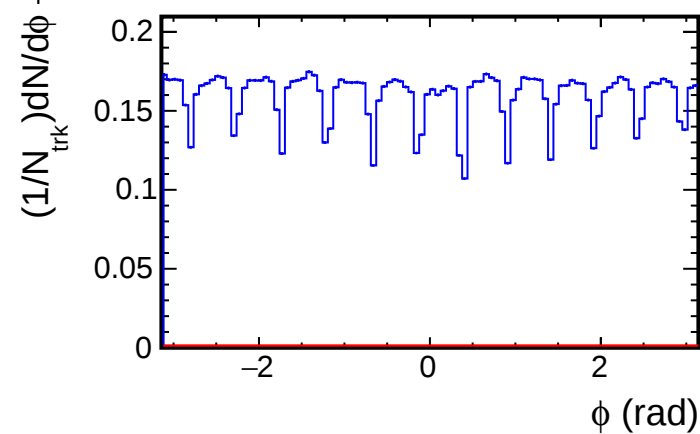
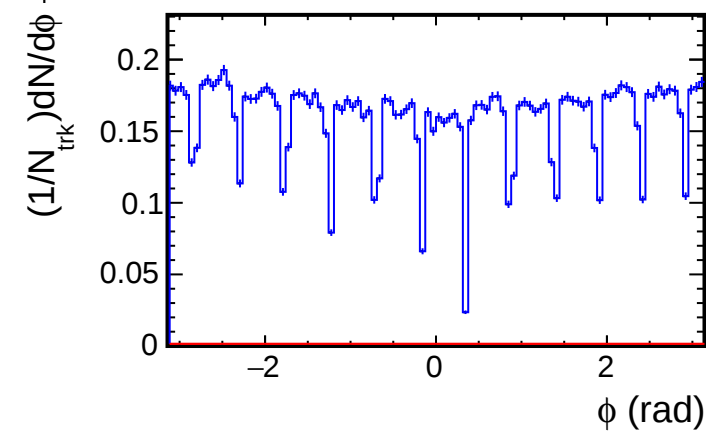
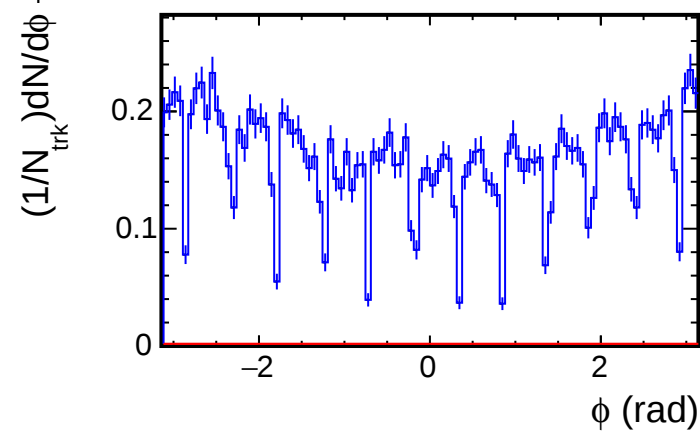
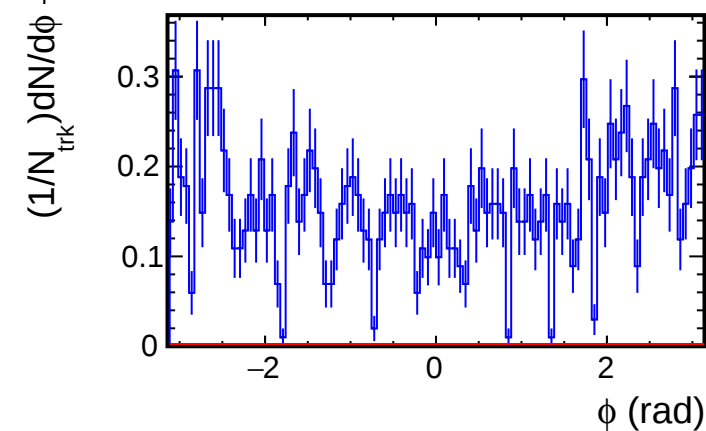


$p_T < 5.0$ (GeV/c)



— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

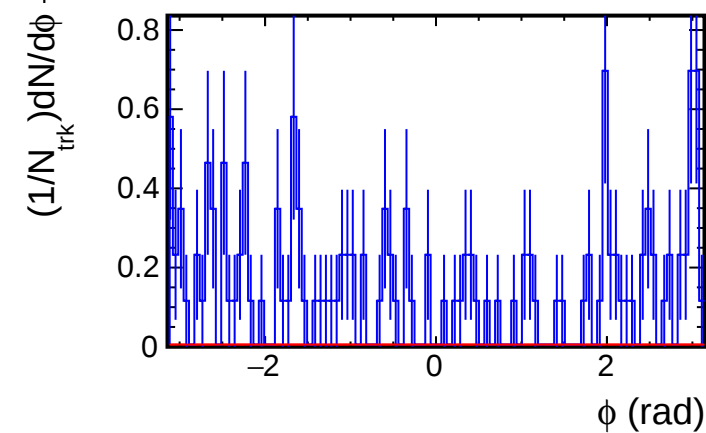
Projection of ϕ for each p_T bin $p_T < 0.5$ (GeV/c) $p_T < 1.0$ (GeV/c) $p_T < 1.5$ (GeV/c) $p_T < 2.0$ (GeV/c) $p_T < 2.5$ (GeV/c)

— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

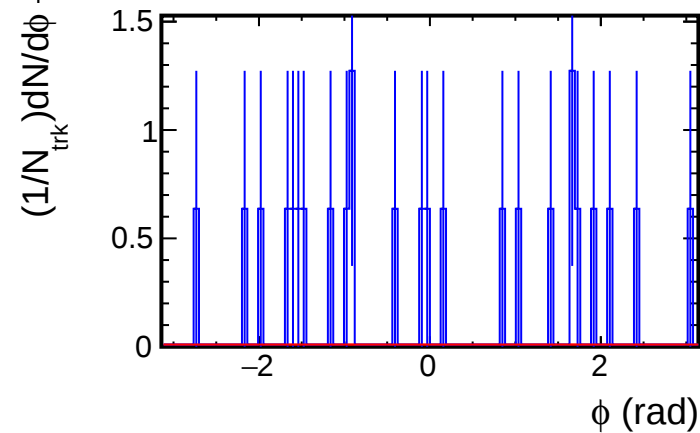
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

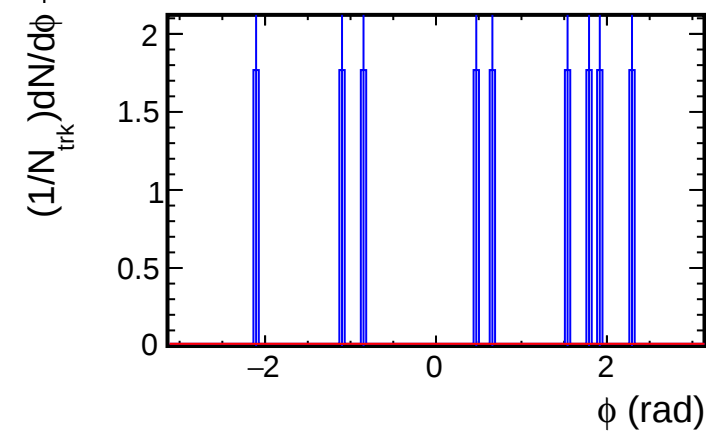
$p_T < 3.0$ (GeV/c)



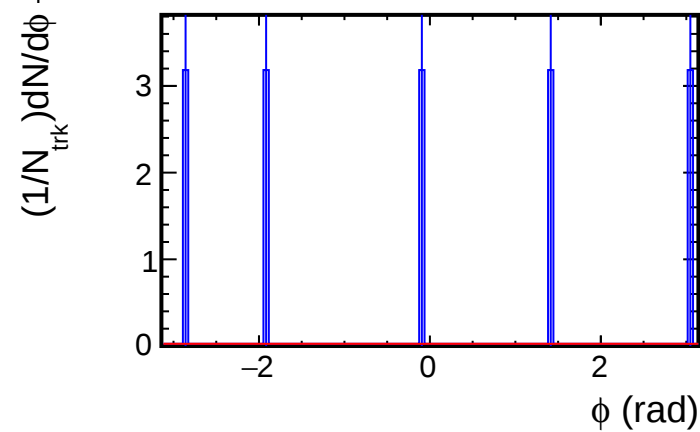
$p_T < 3.5$ (GeV/c)



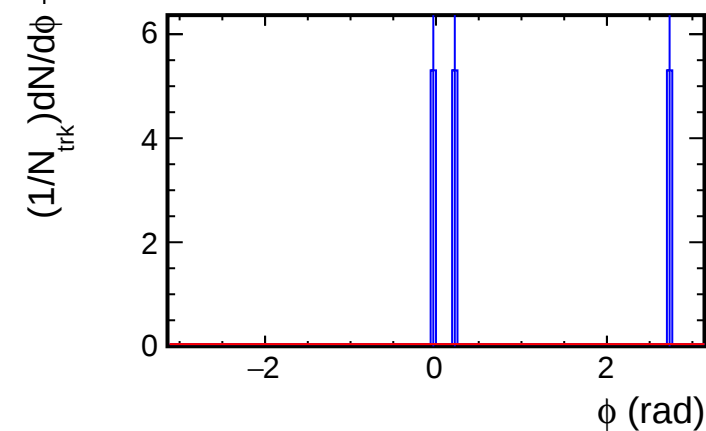
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

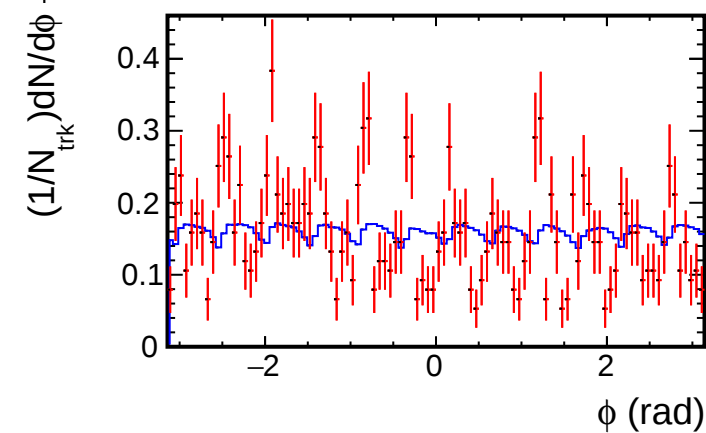


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

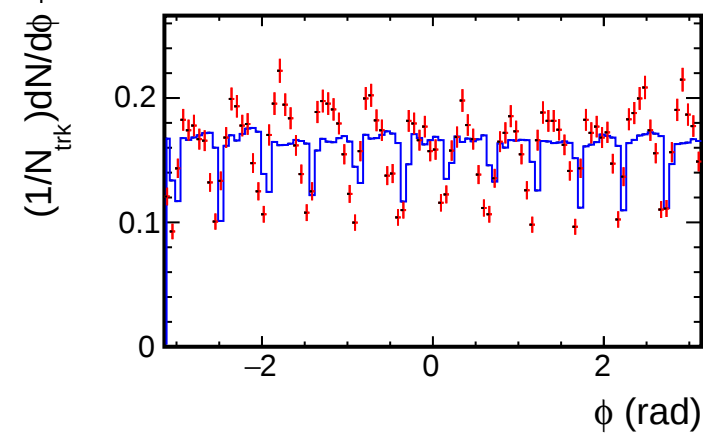
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

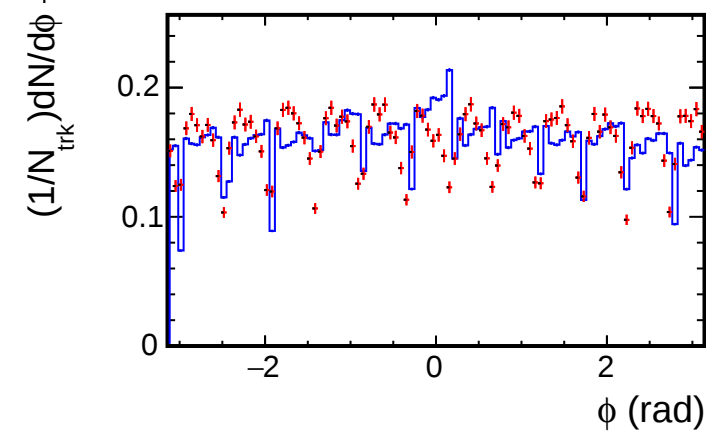
$p_T < 0.5$ (GeV/c)



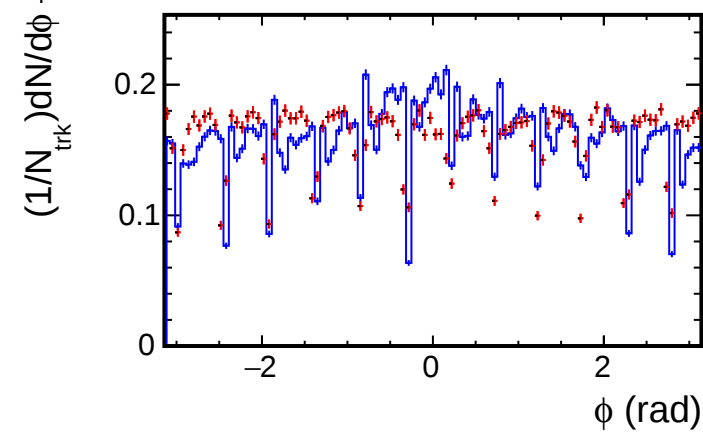
$p_T < 1.0$ (GeV/c)



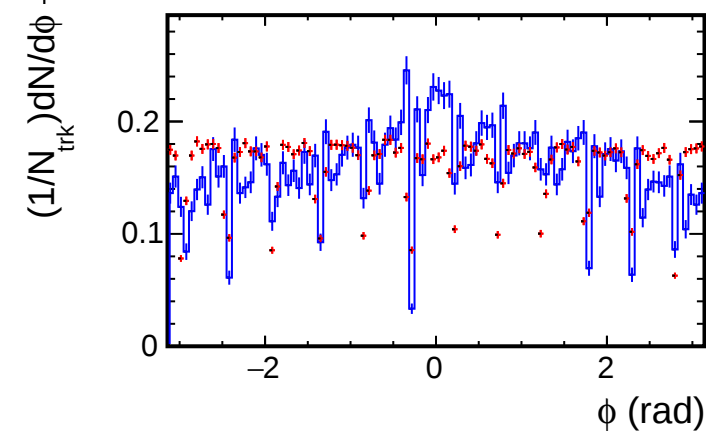
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

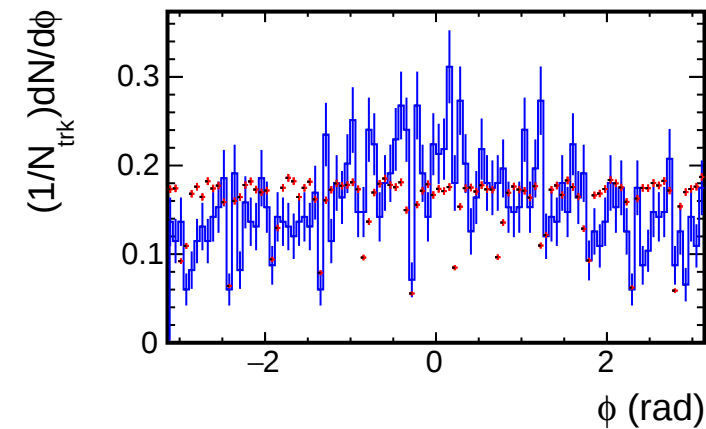


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

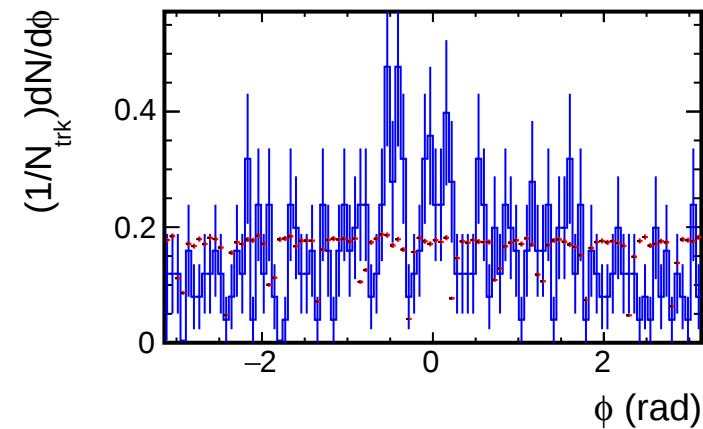
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

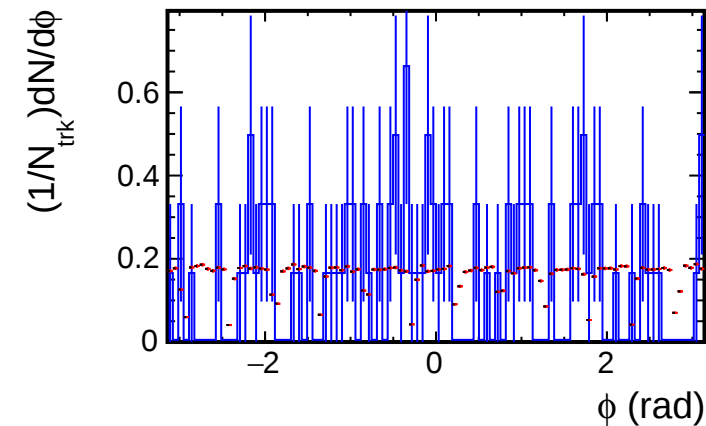
$p_T < 3.0$ (GeV/c)



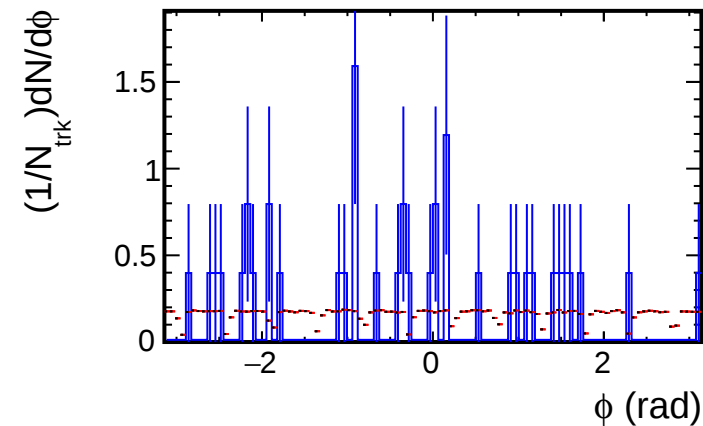
$p_T < 3.5$ (GeV/c)



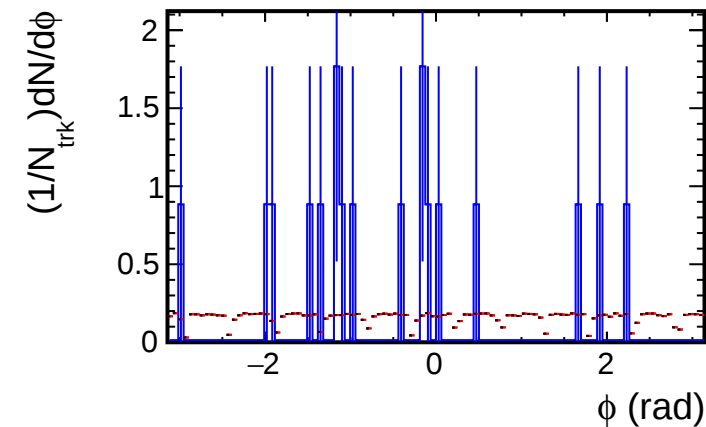
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)

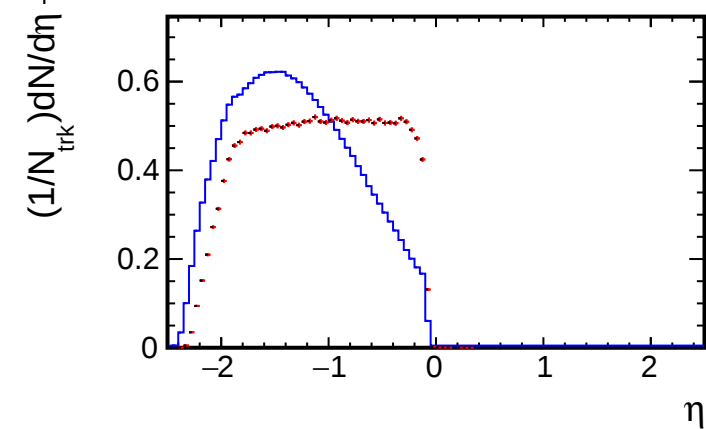
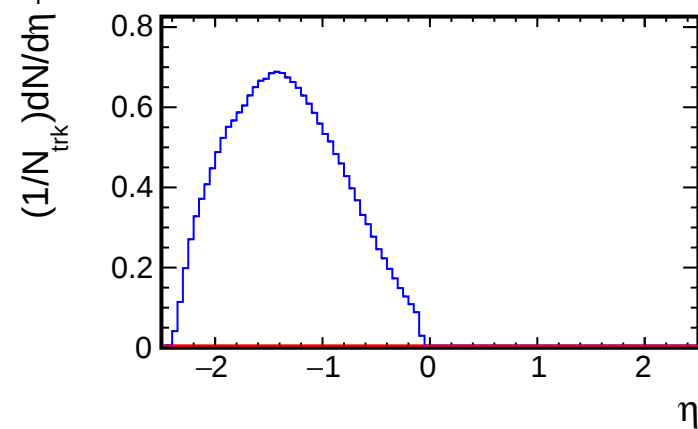
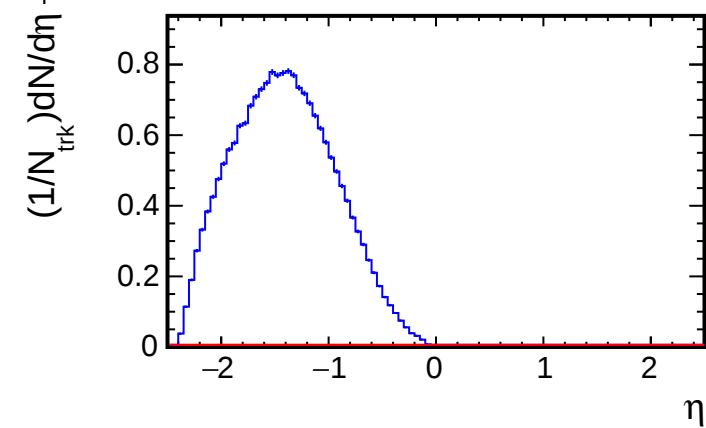
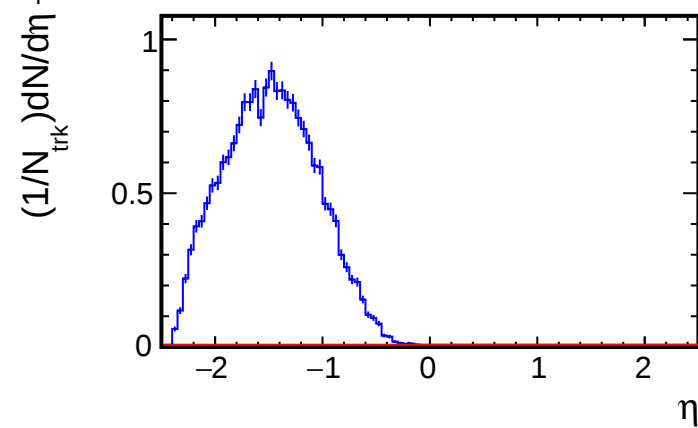
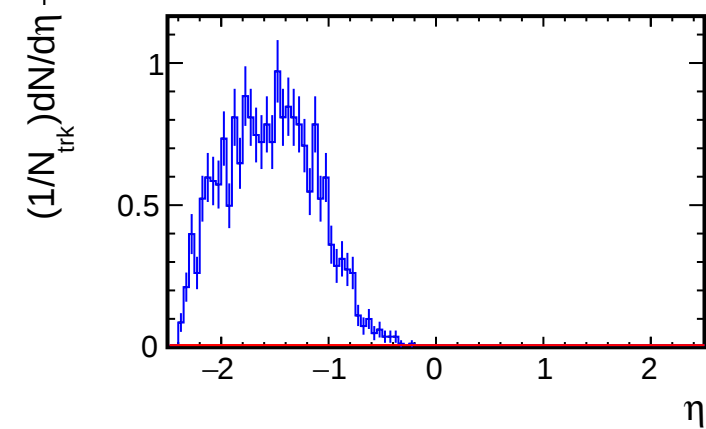


$p_T < 5.0$ (GeV/c)



— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

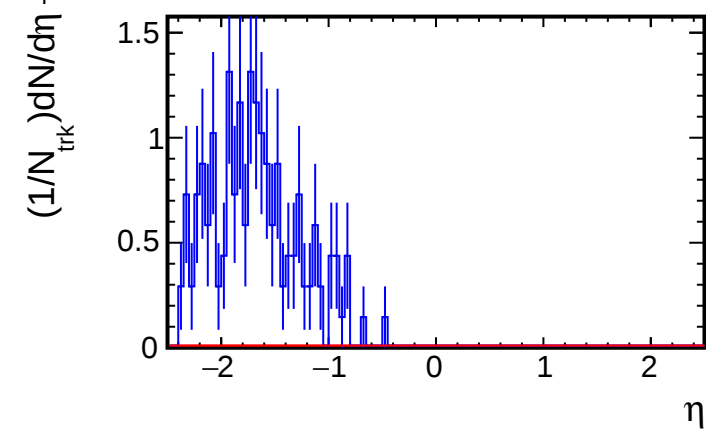
Projection of η for each p_T bin $p_T < 0.5$ (GeV/c) $p_T < 1.0$ (GeV/c) $p_T < 1.5$ (GeV/c) $p_T < 2.0$ (GeV/c) $p_T < 2.5$ (GeV/c)

— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

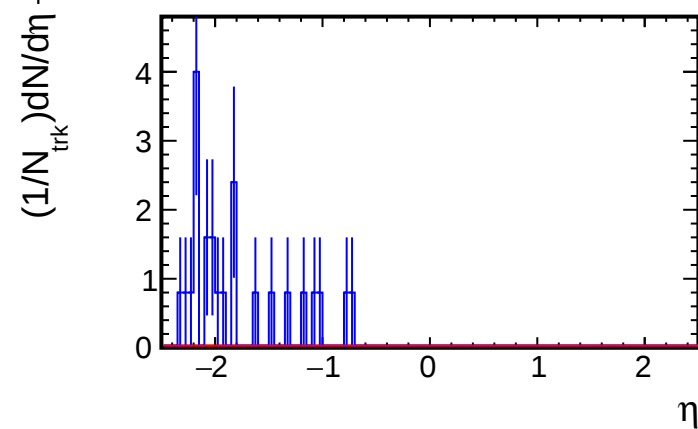
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

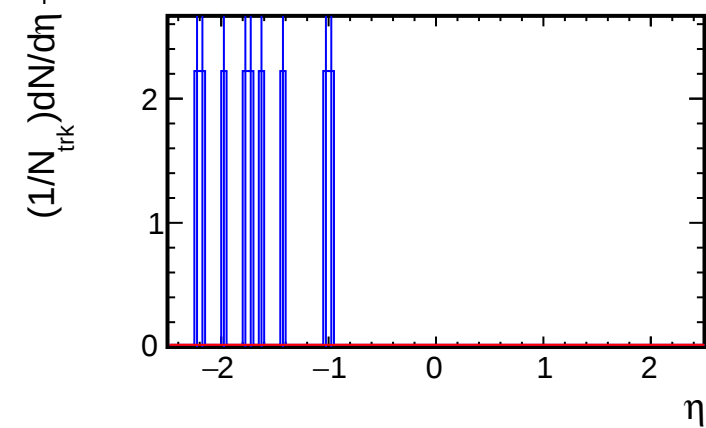
$p_T < 3.0$ (GeV/c)



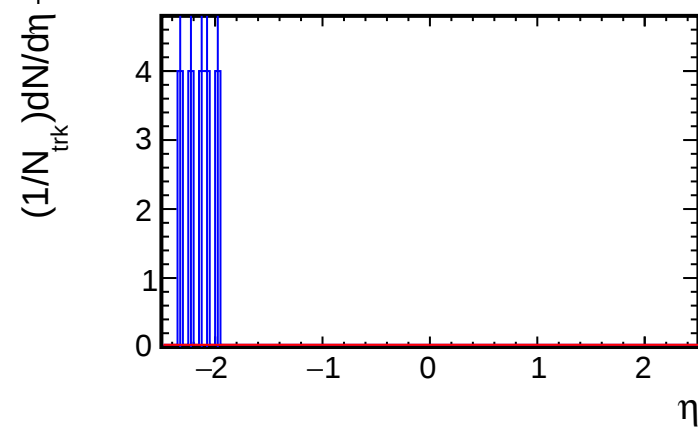
$p_T < 3.5$ (GeV/c)



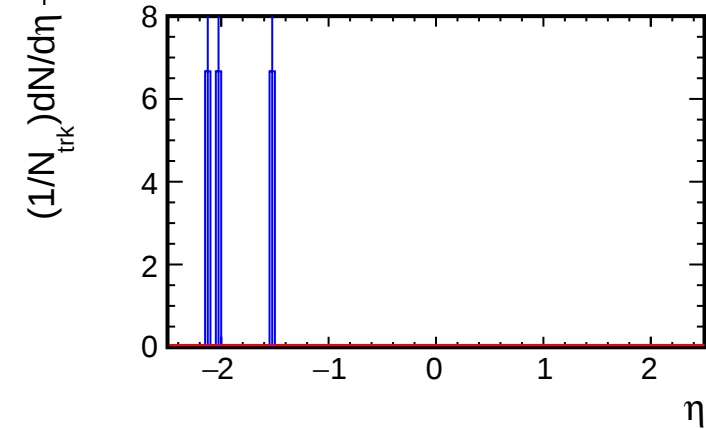
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

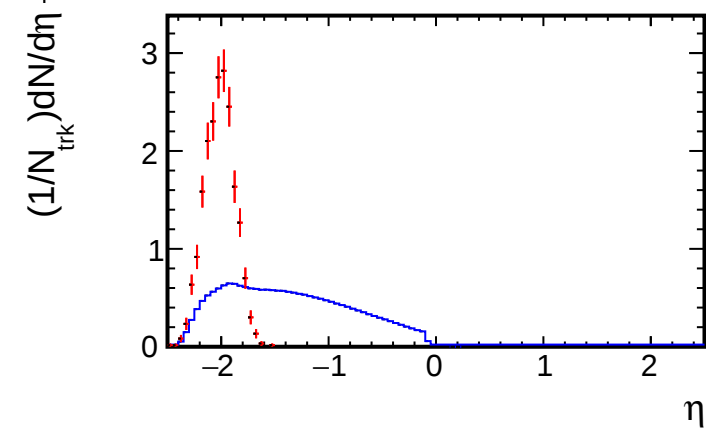


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

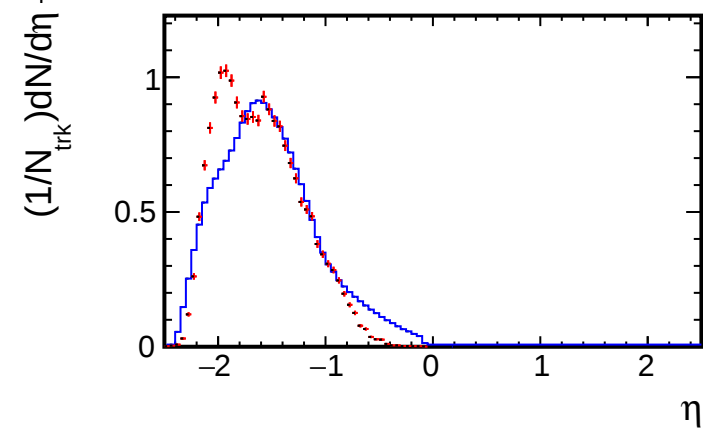
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

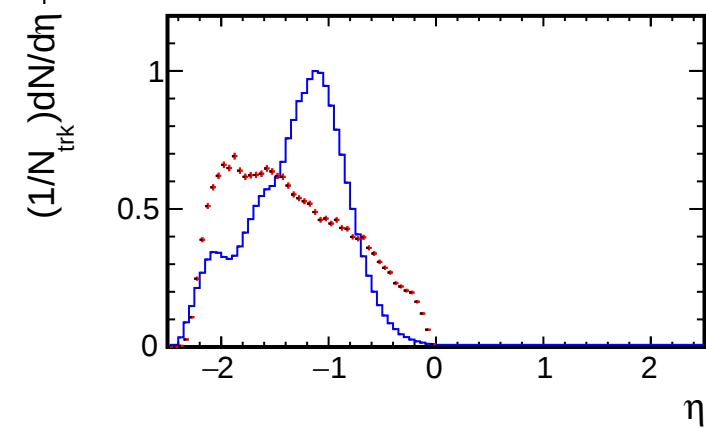
$p_T < 0.5$ (GeV/c)



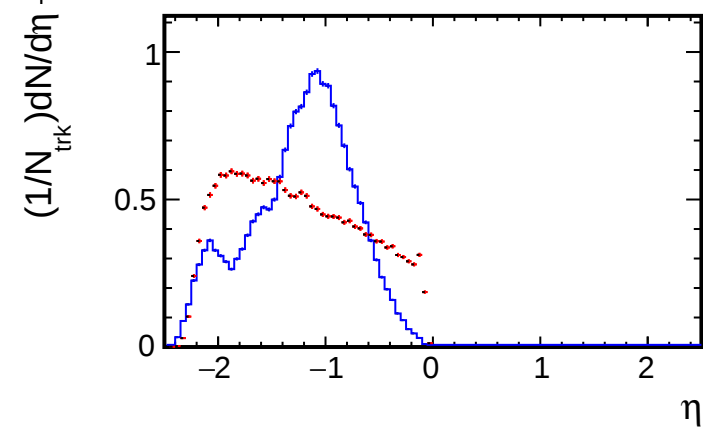
$p_T < 1.0$ (GeV/c)



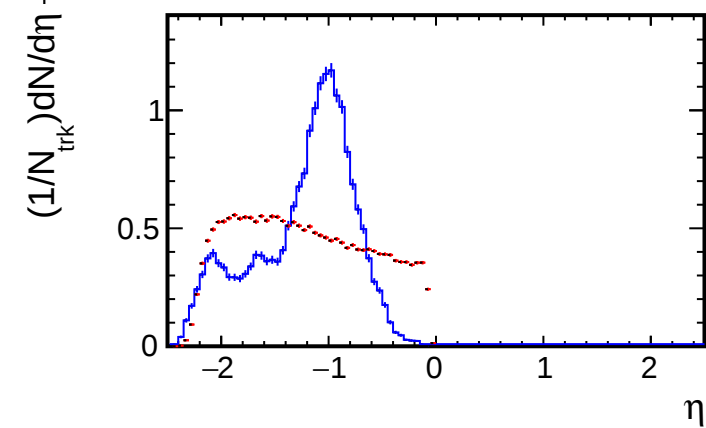
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)

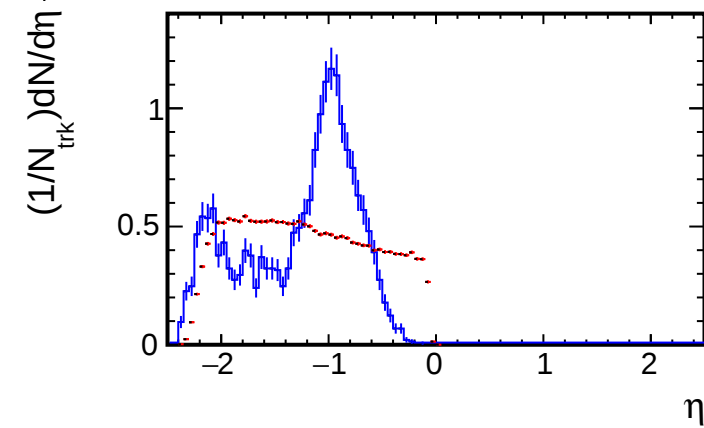
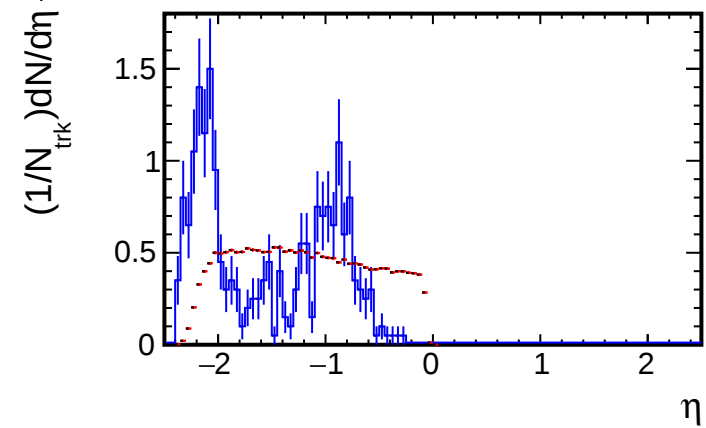
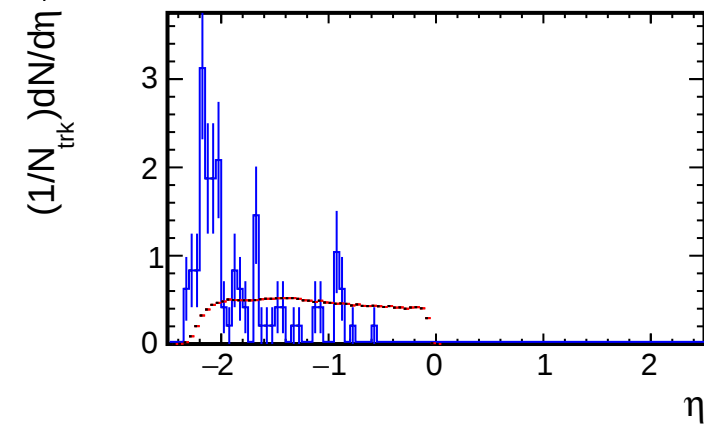
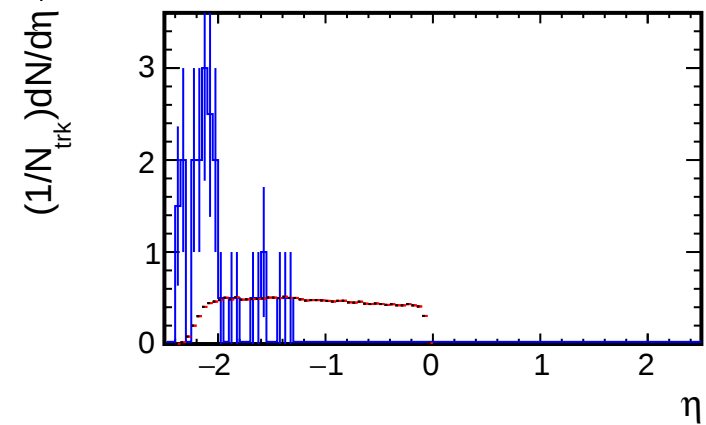
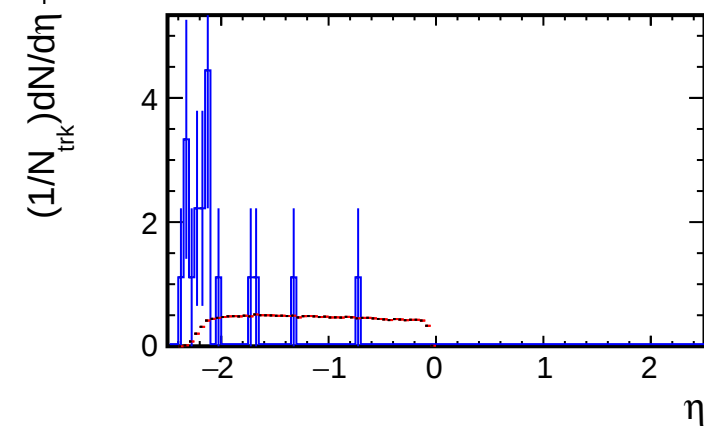


$p_T < 2.5$ (GeV/c)



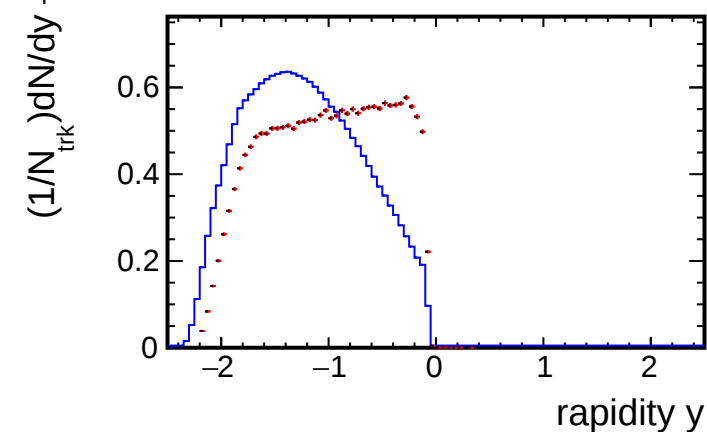
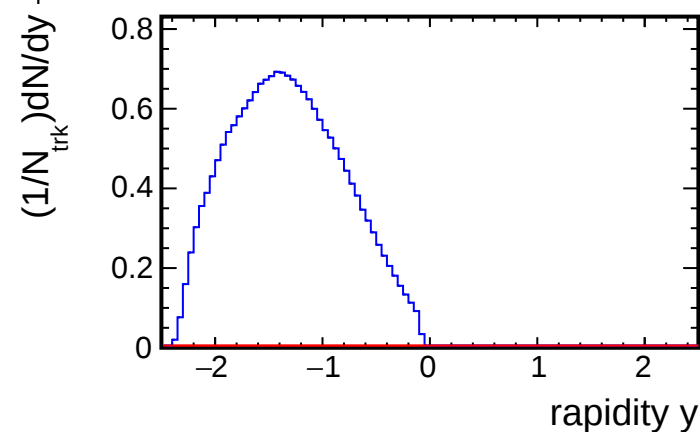
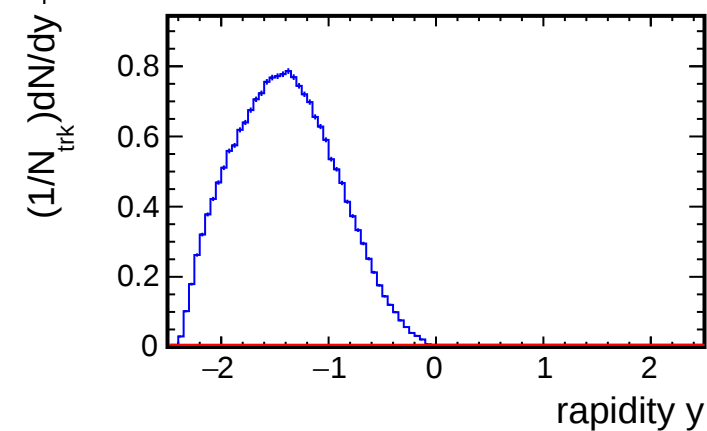
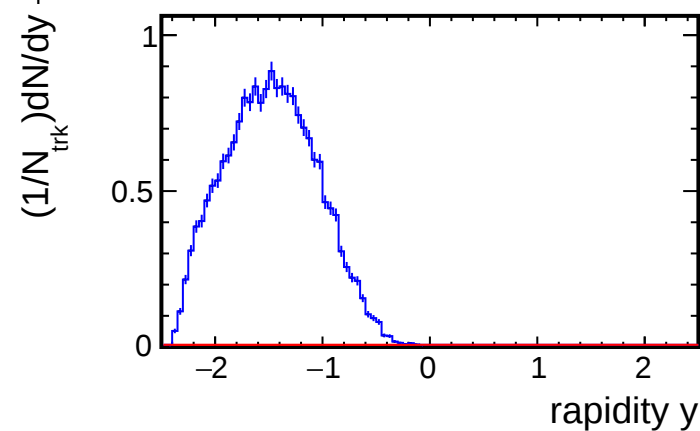
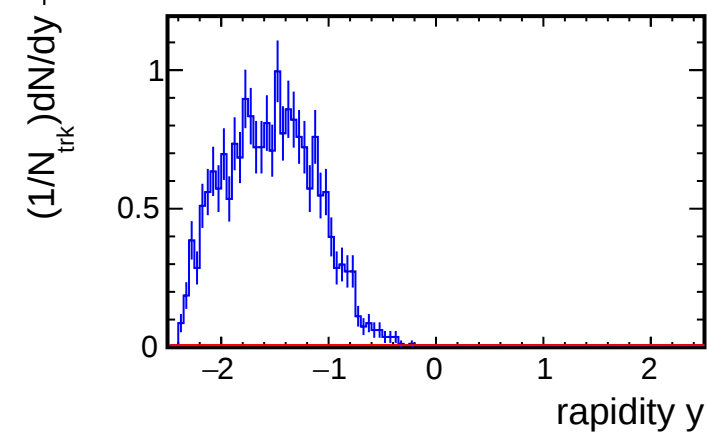
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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 alpha (from H4Lambda)
(CONTAM, geantid=47)

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

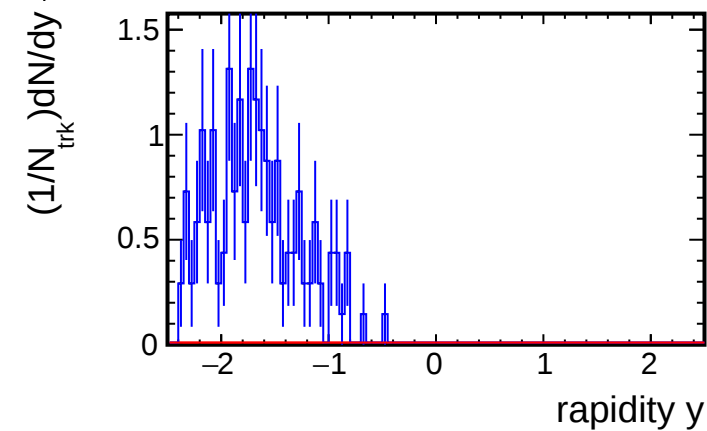
Projection of y for each p_T bin $p_T < 0.5$ (GeV/c) $p_T < 1.0$ (GeV/c) $p_T < 1.5$ (GeV/c) $p_T < 2.0$ (GeV/c) $p_T < 2.5$ (GeV/c)

— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

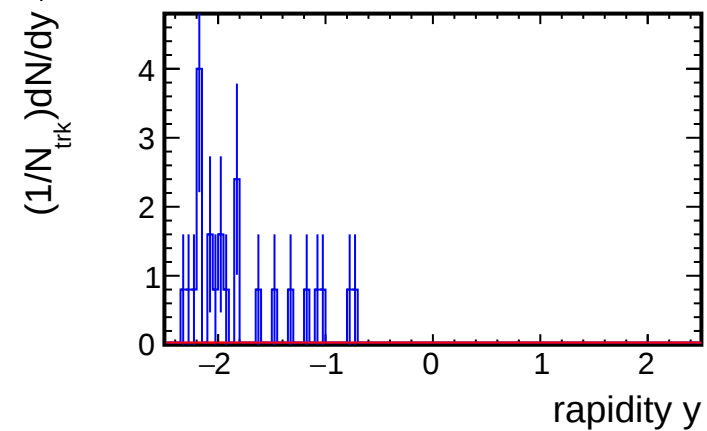
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of y for each p_T bin

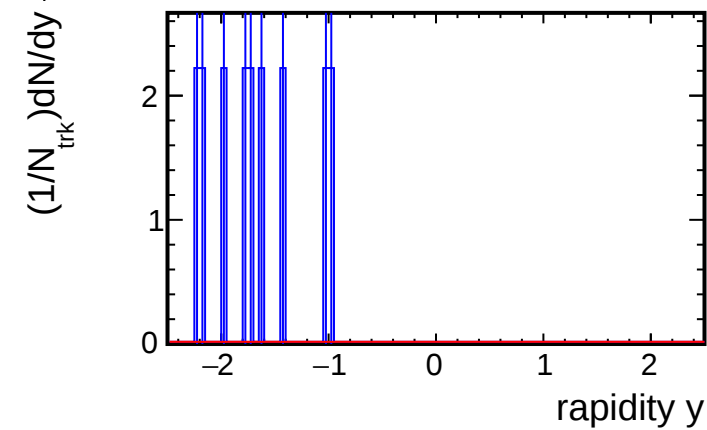
$p_T < 3.0$ (GeV/c)



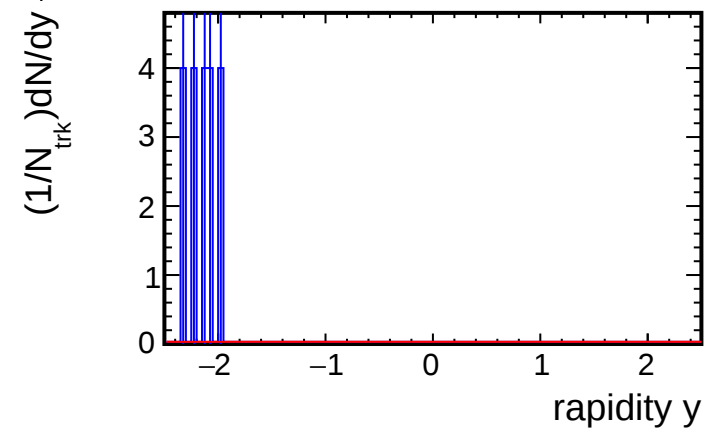
$p_T < 3.5$ (GeV/c)



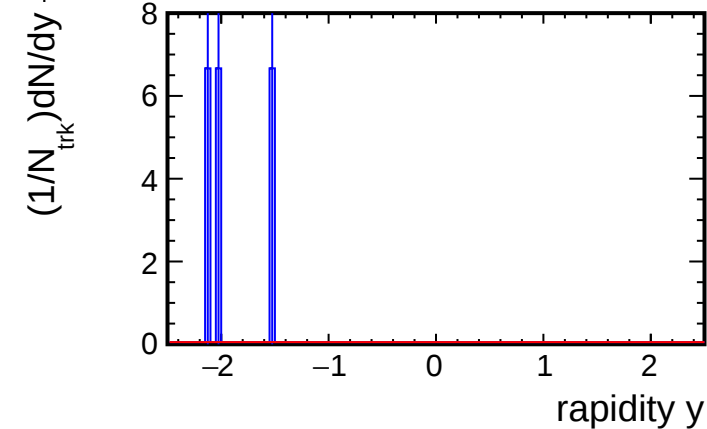
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

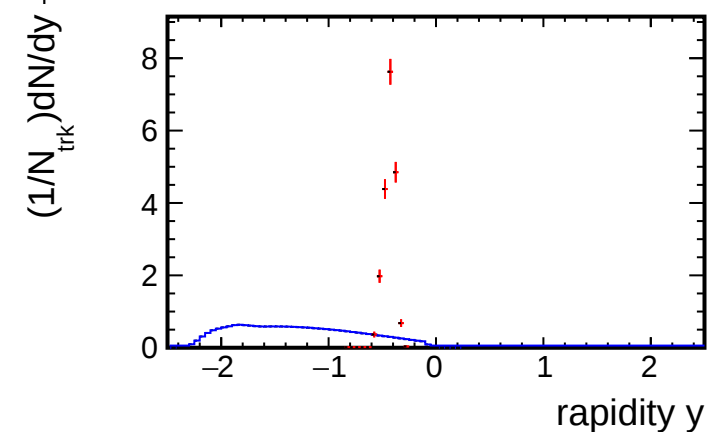


— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

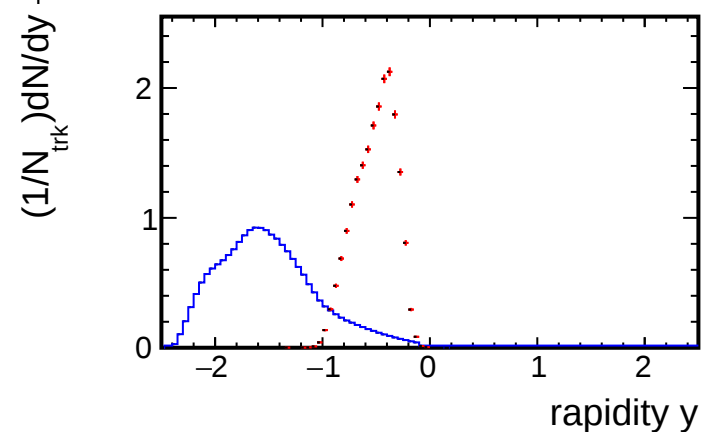
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of y for each p_T bin

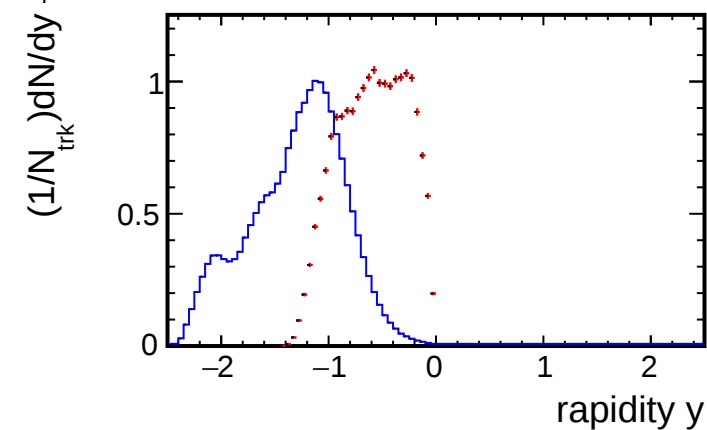
$p_T < 0.5$ (GeV/c)



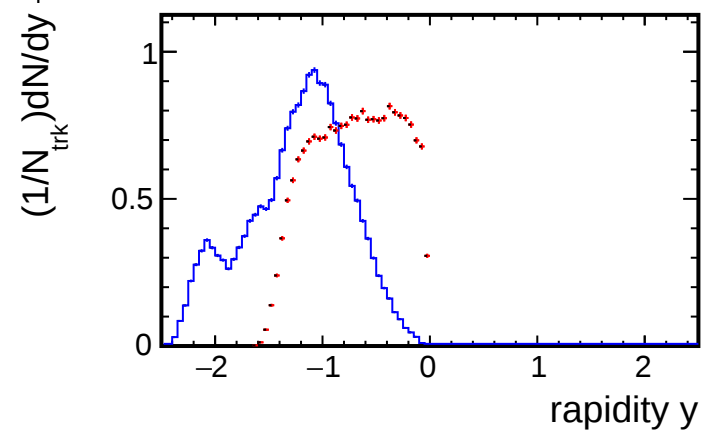
$p_T < 1.0$ (GeV/c)



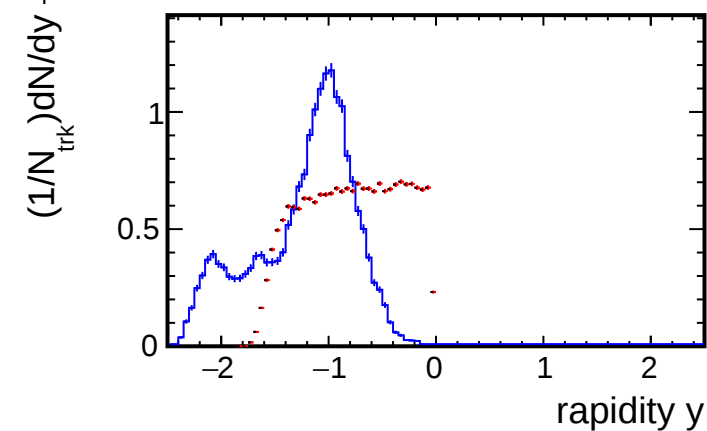
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

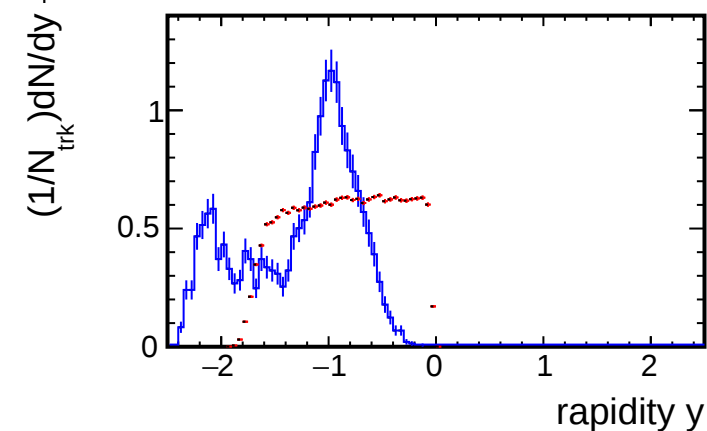


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

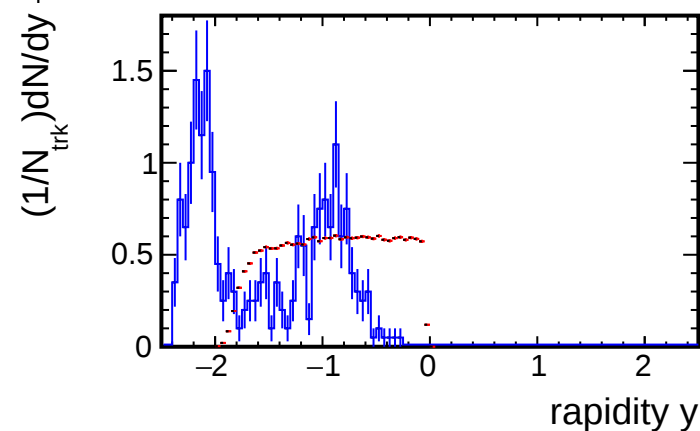
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of y for each p_T bin

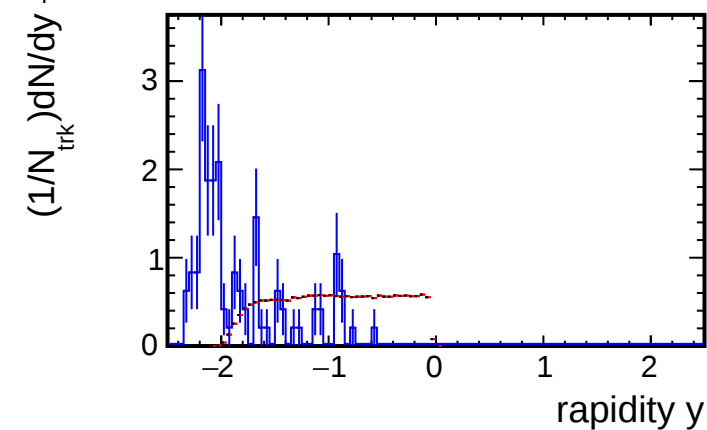
$p_T < 3.0$ (GeV/c)



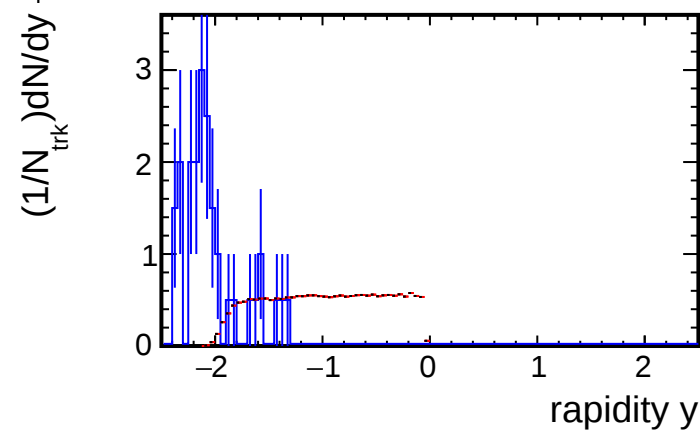
$p_T < 3.5$ (GeV/c)



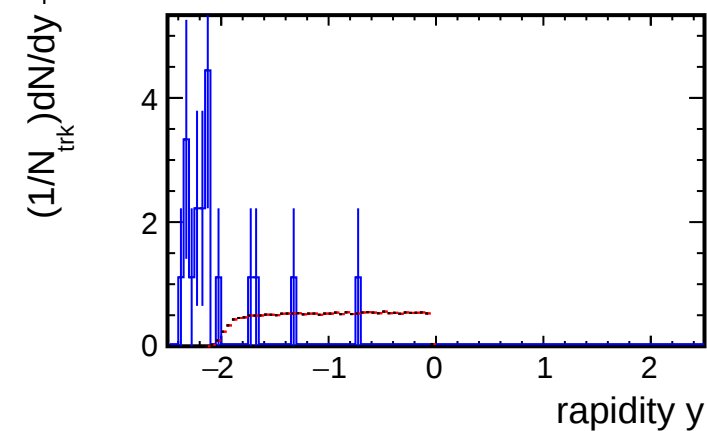
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



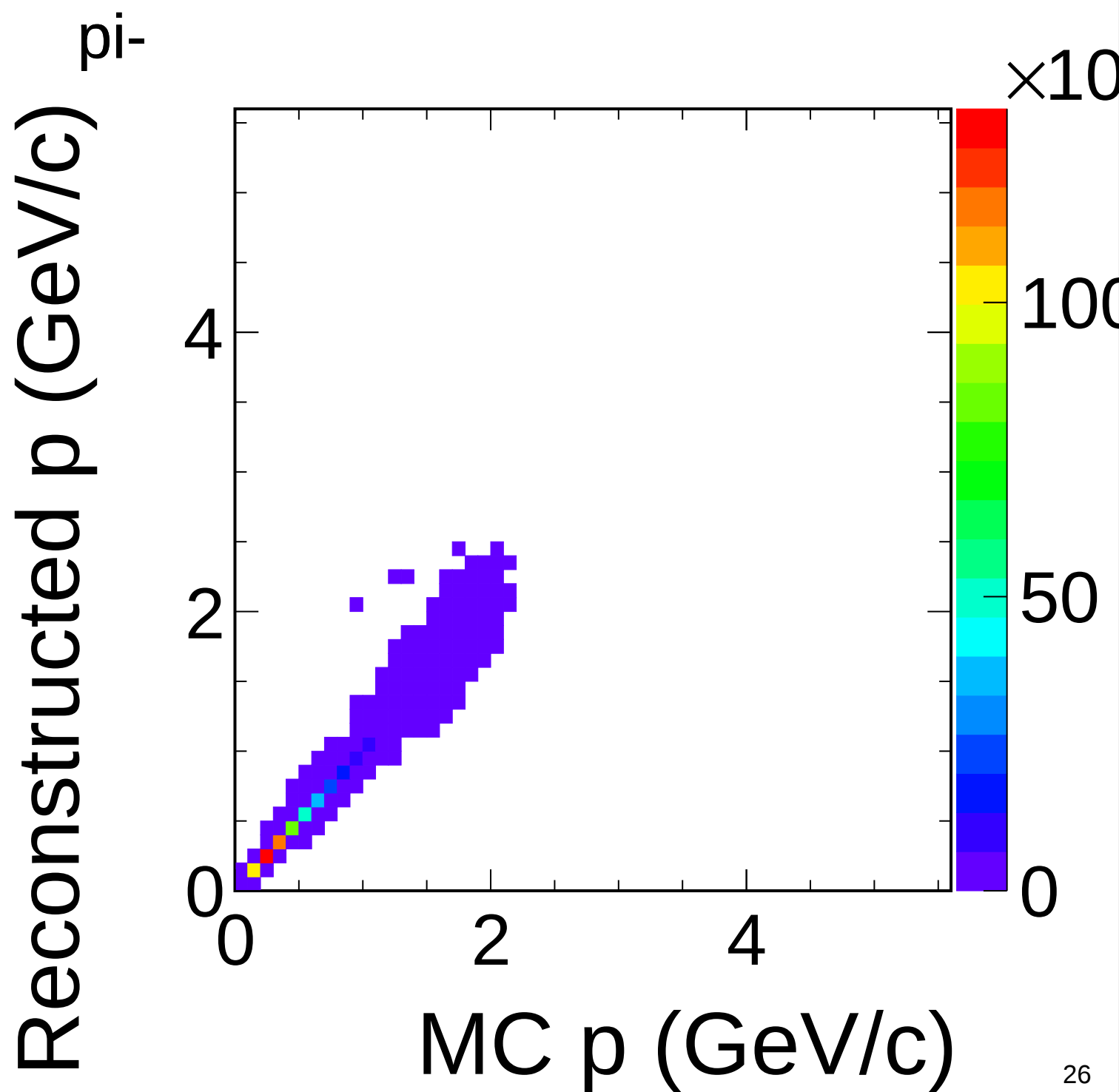
$p_T < 5.0$ (GeV/c)



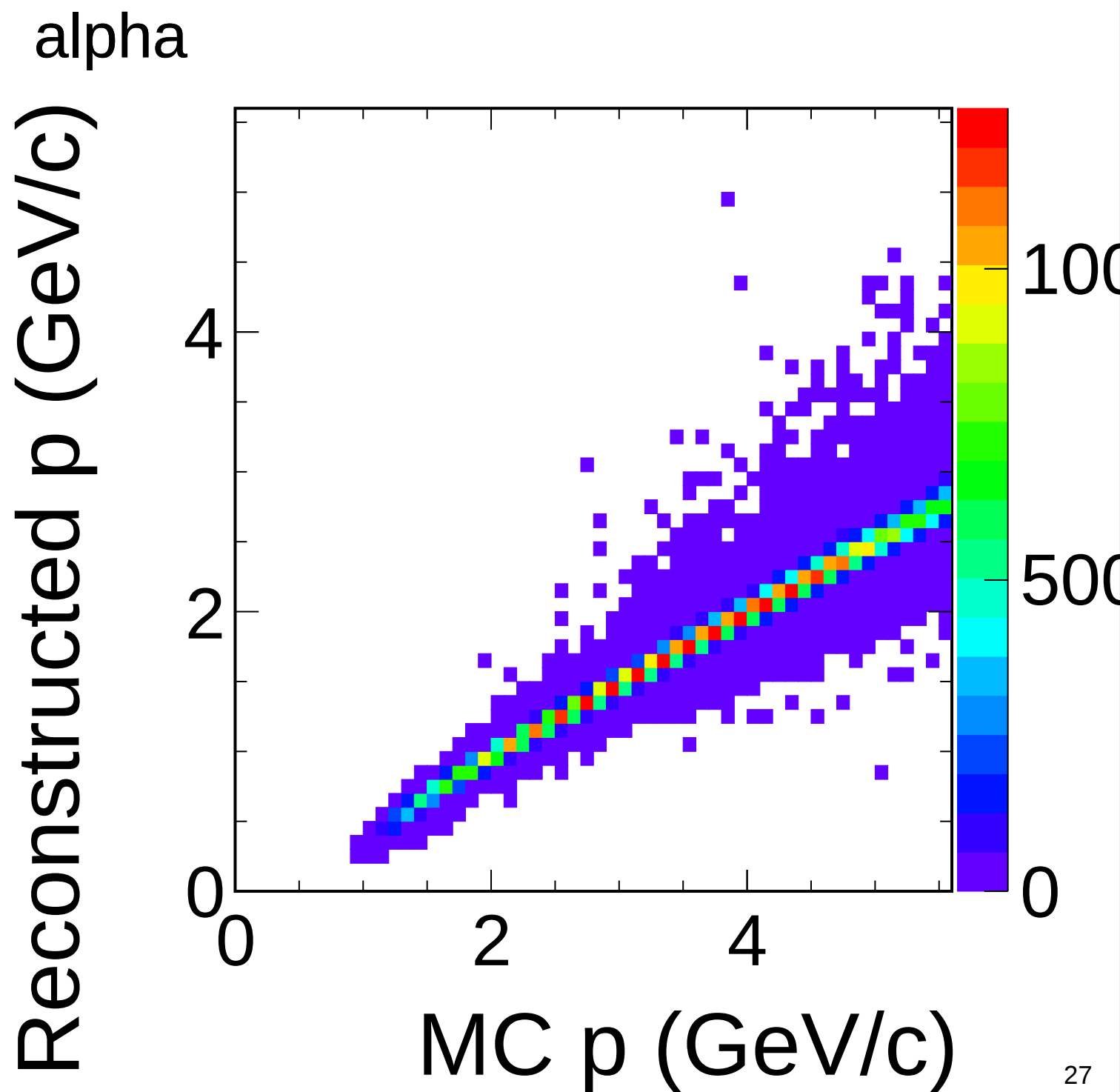
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

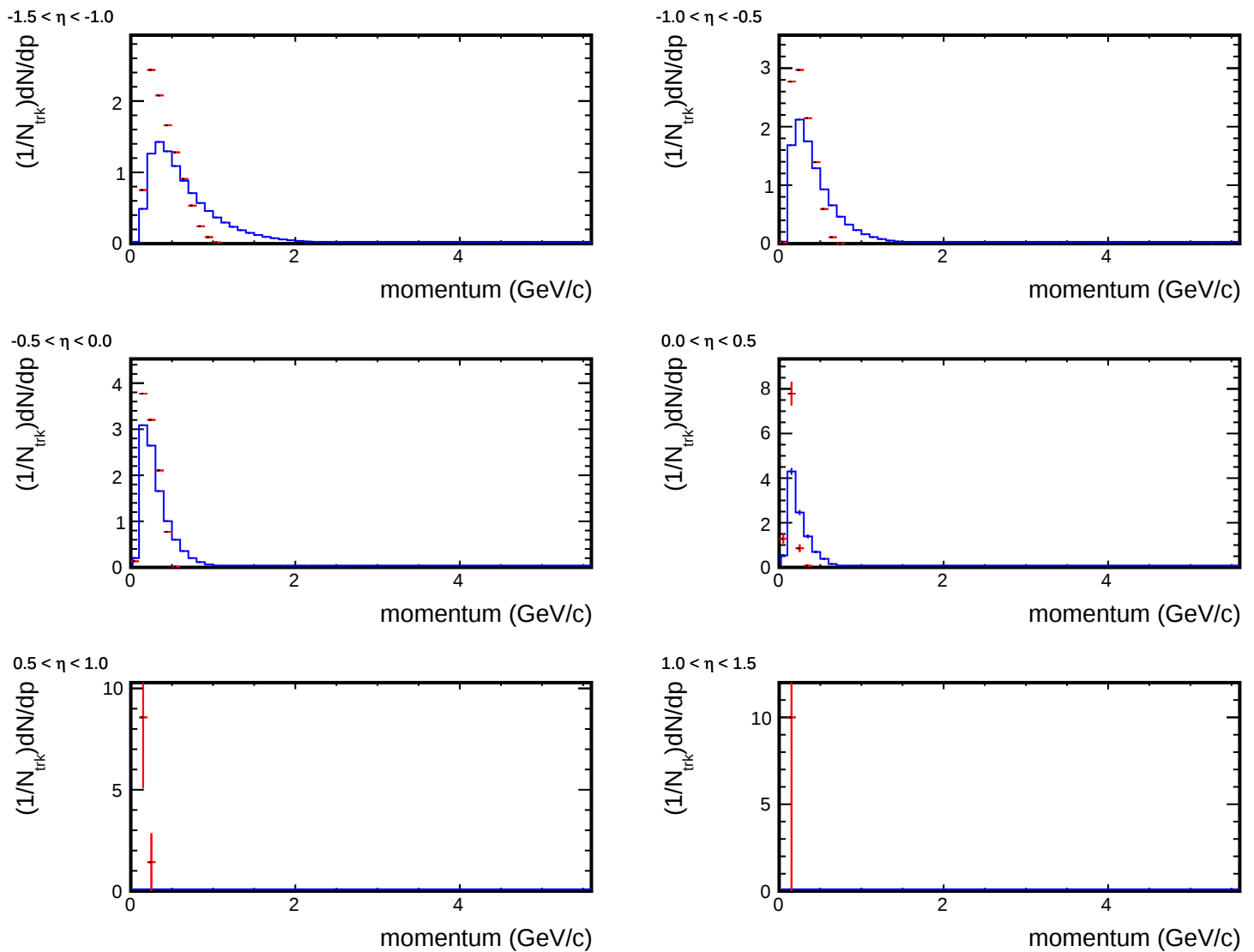
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Reconstructed momentum vs MC momentum



Reconstructed momentum vs MC momentum

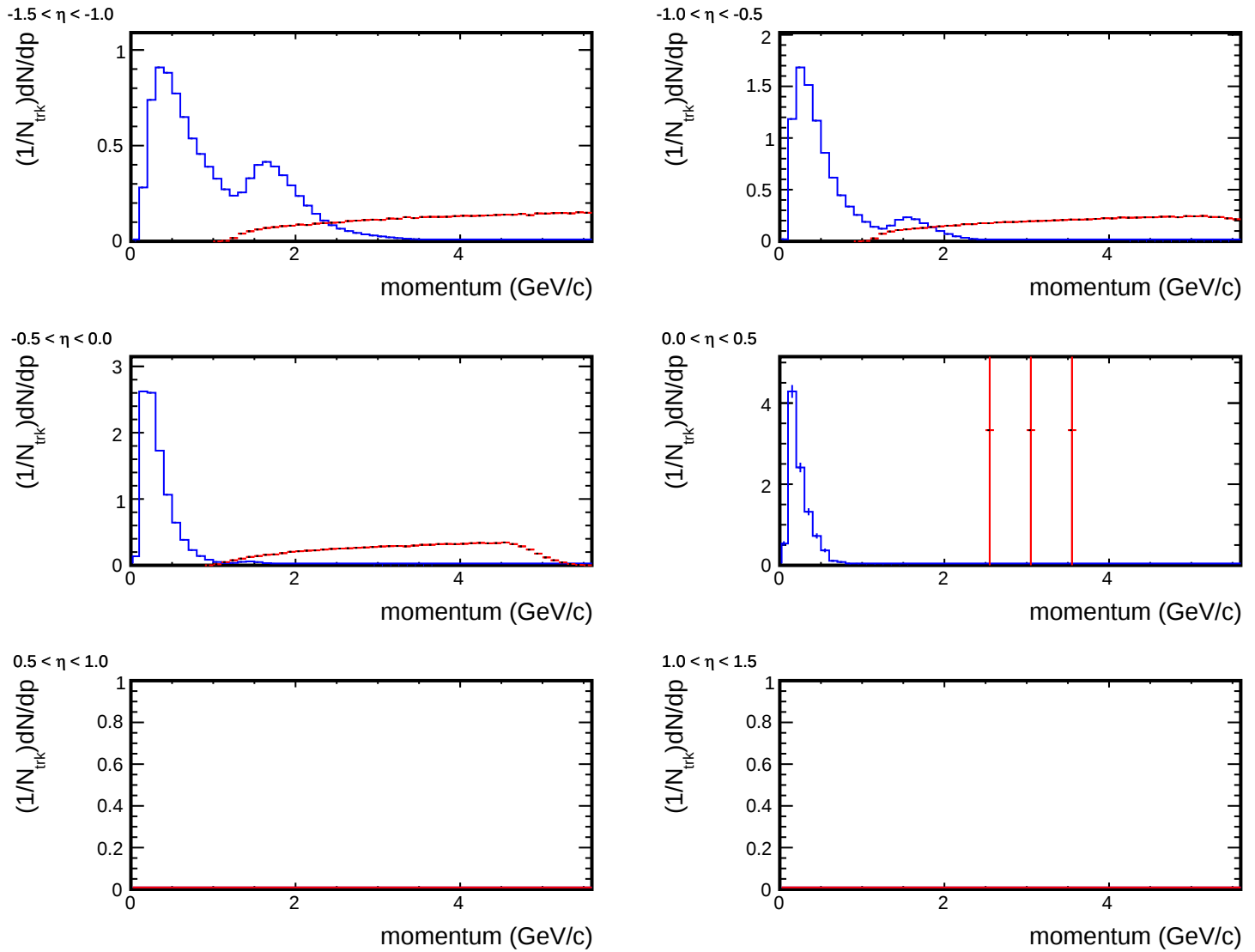


Projection of p for each η bin

— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

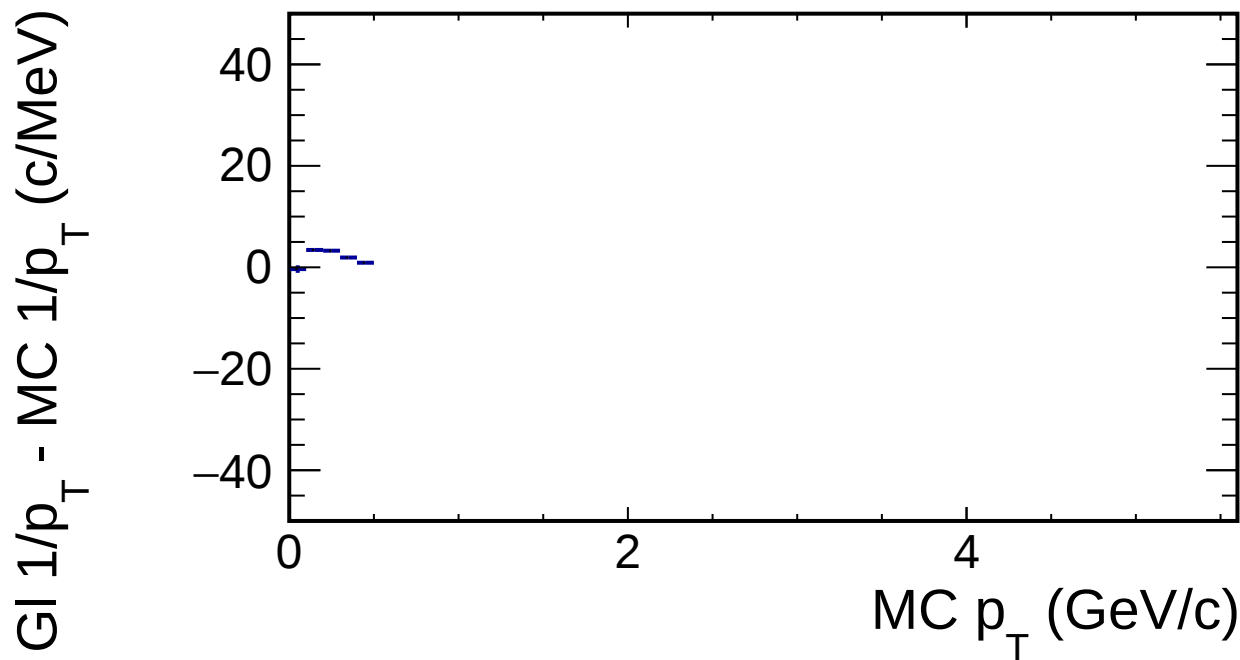
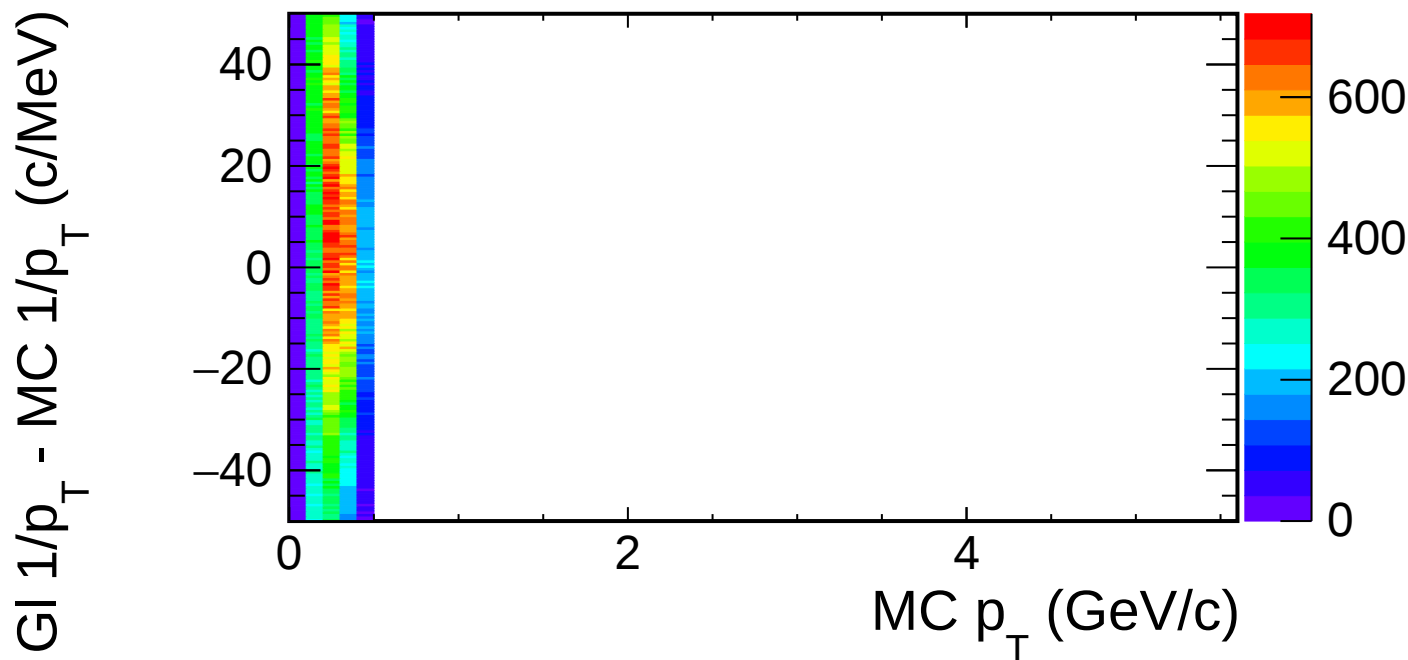
Projection of p for each η bin



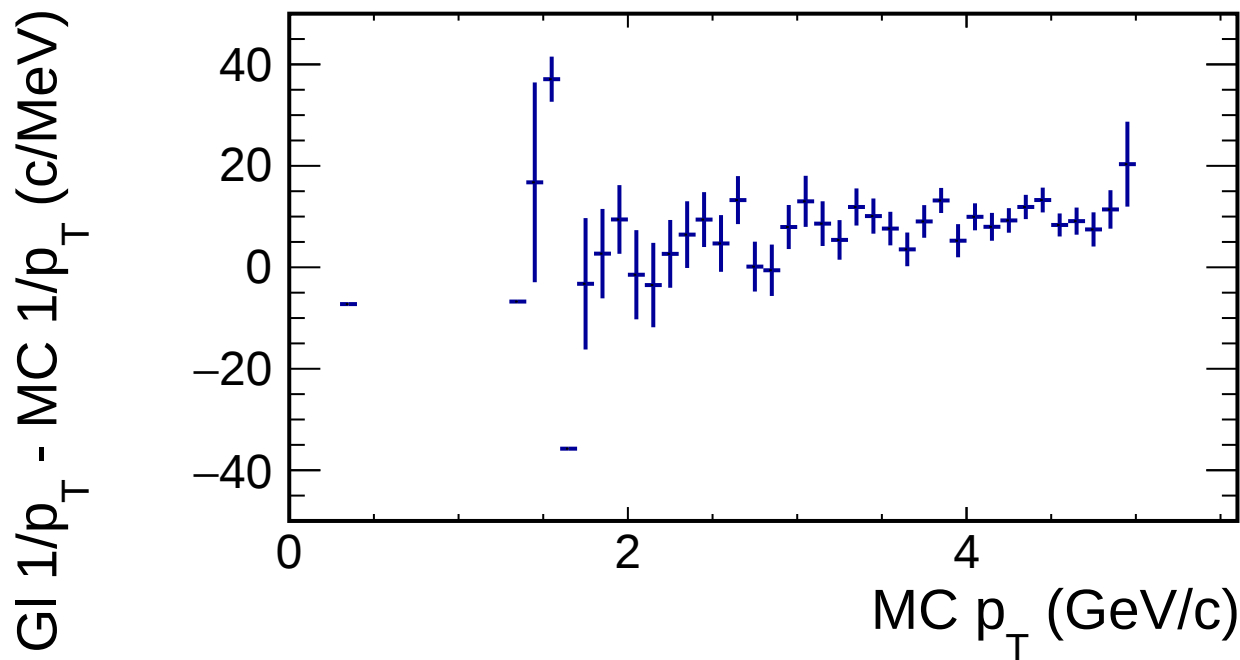
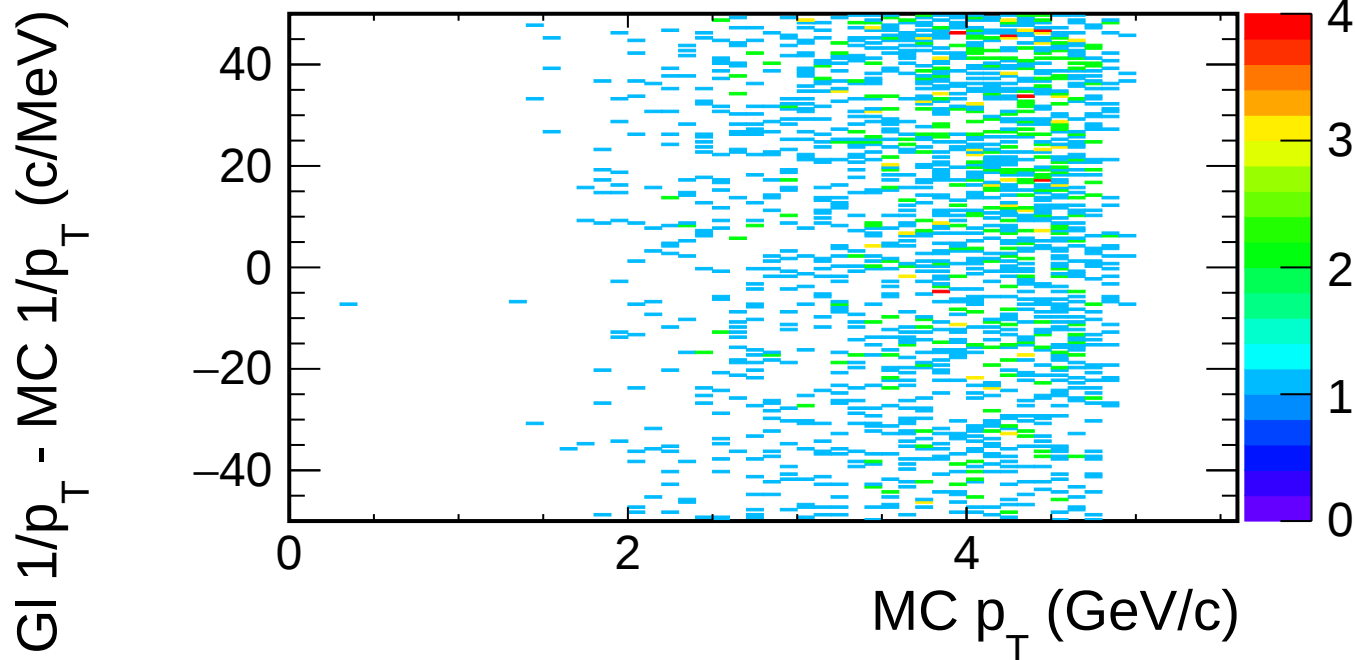
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

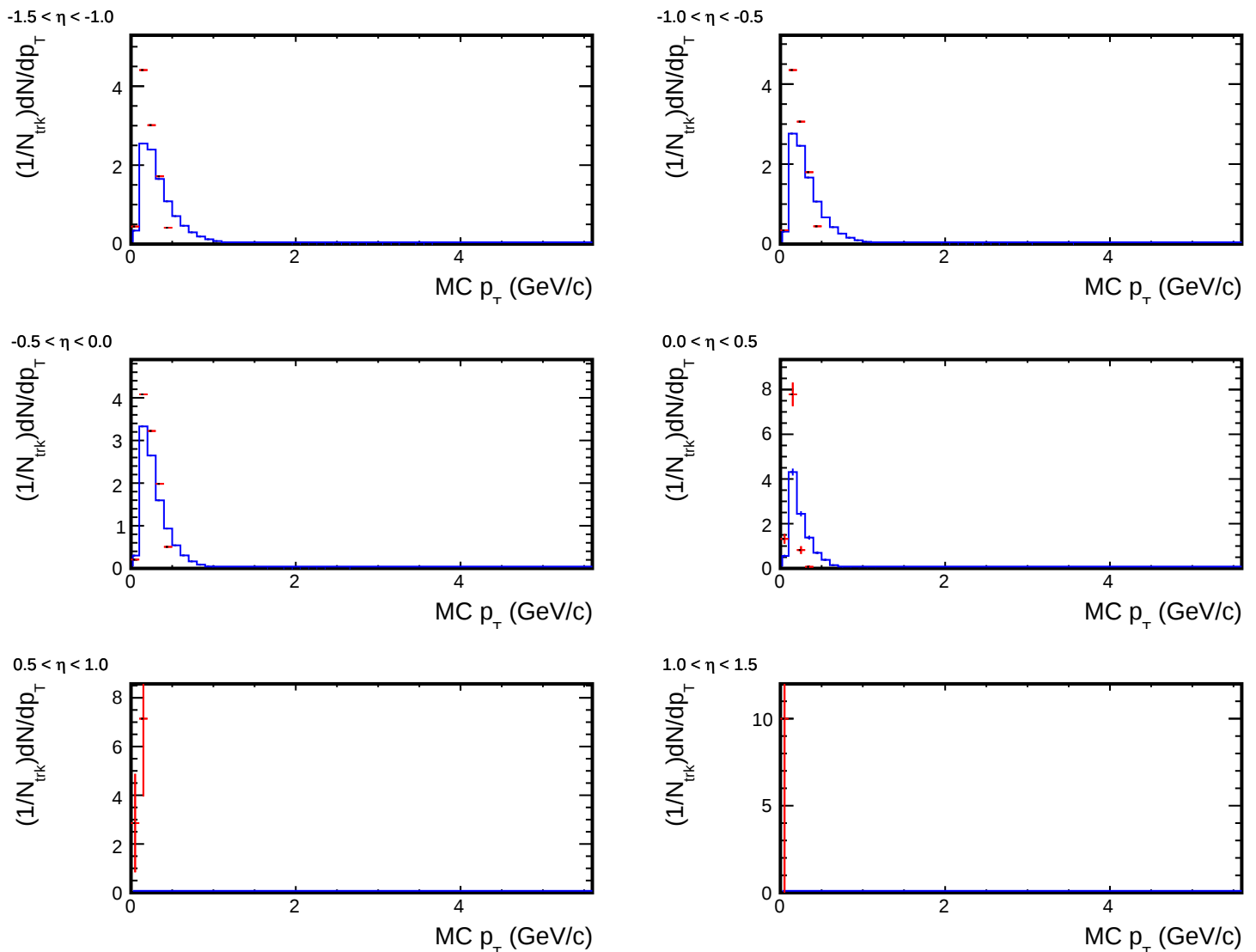
$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (pi-)



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



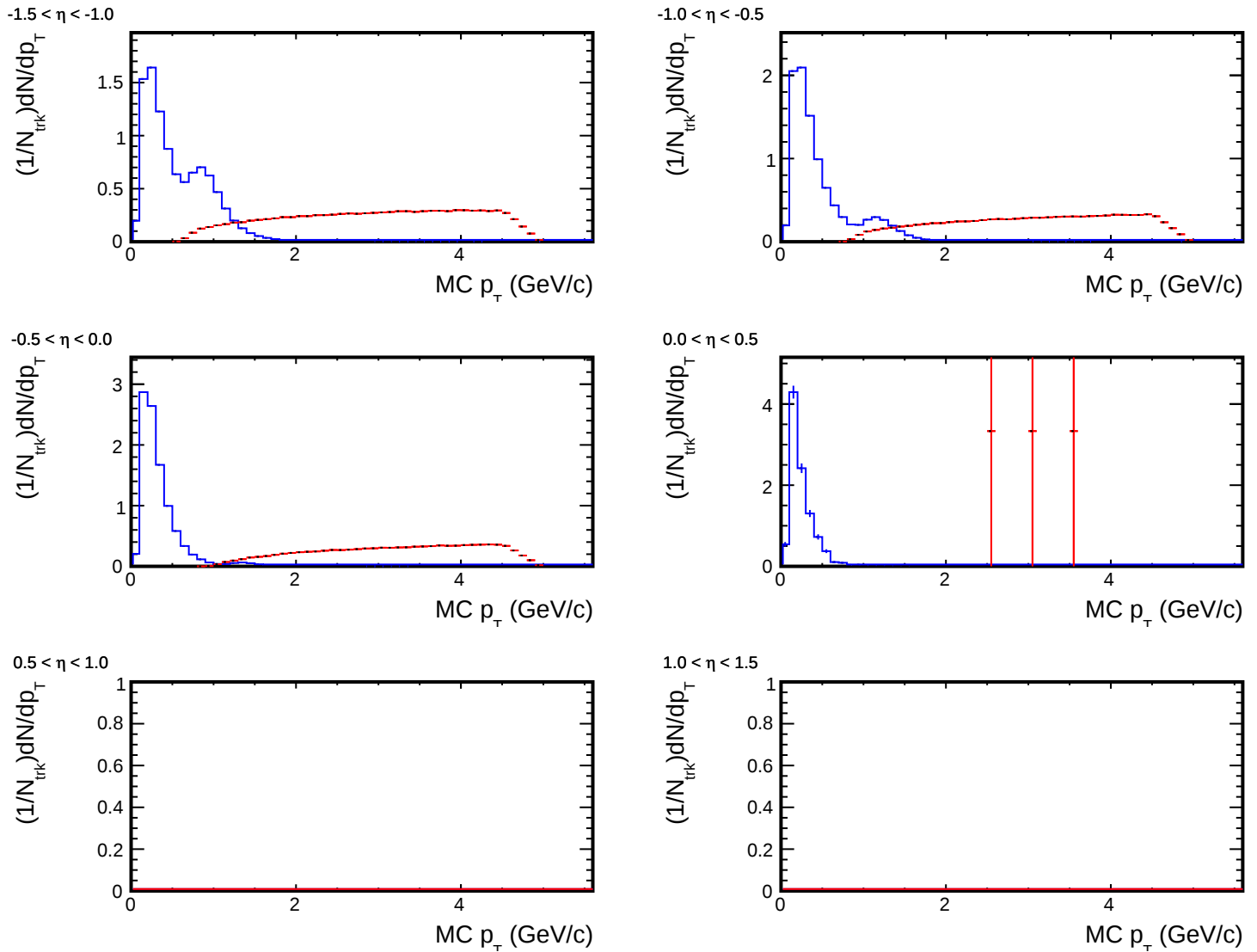
Projection of p_T for each η bin



— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

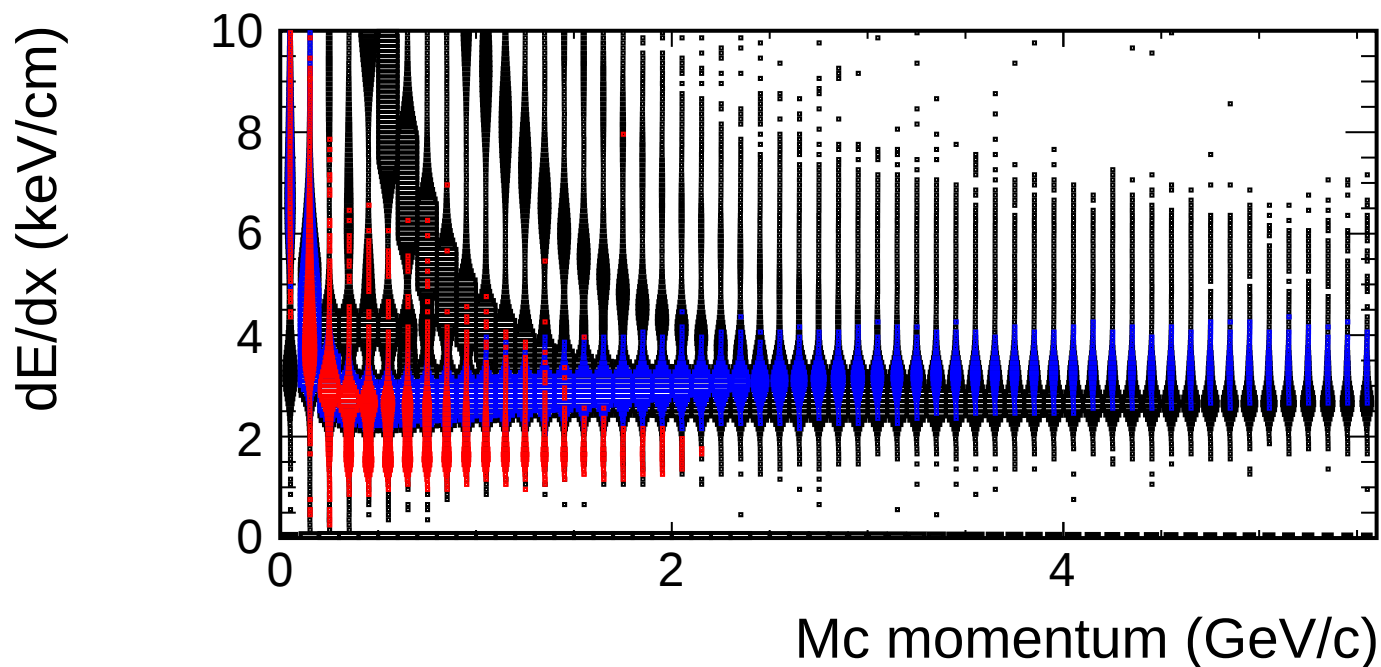
Projection of p_T for each η bin



— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

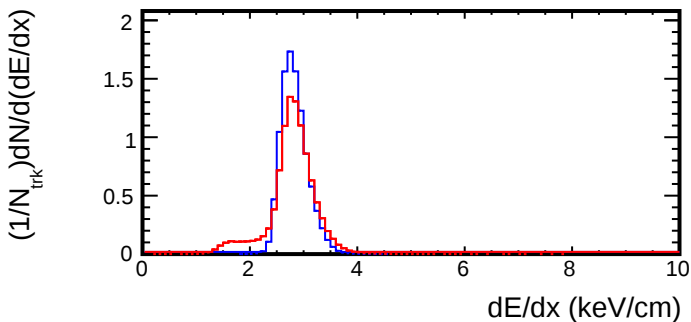
dE/dx vs momentum (Embedding:pi-, Real:pi-)



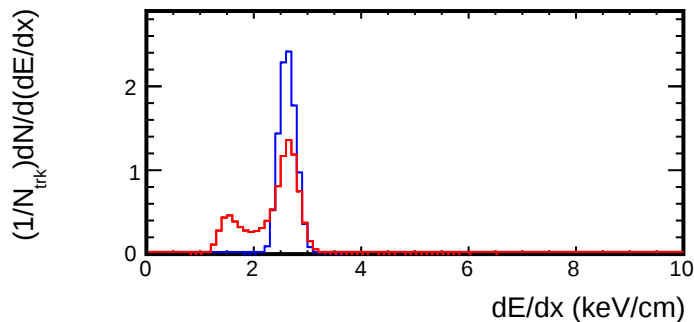
- Daughter pi- (from H4Lambda) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

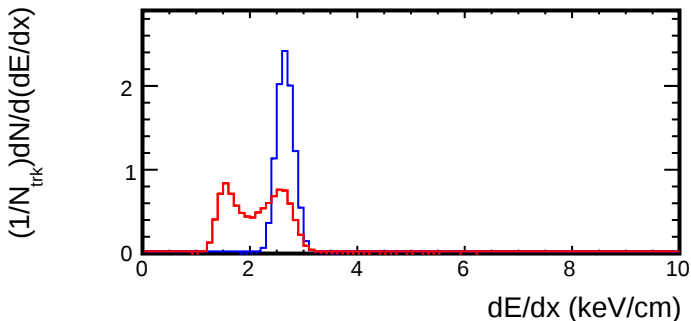
< Mc p < 0.4 GeV/c



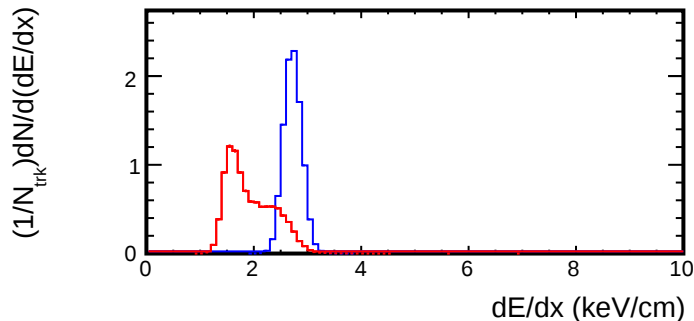
< Mc p < 0.6 GeV/c



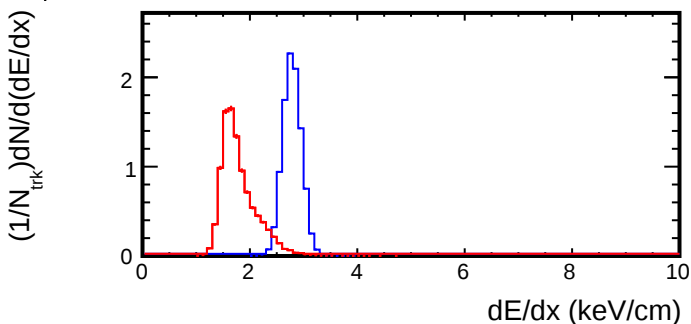
< Mc p < 0.8 GeV/c



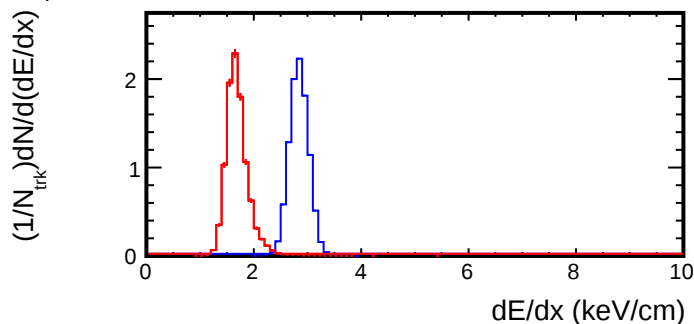
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

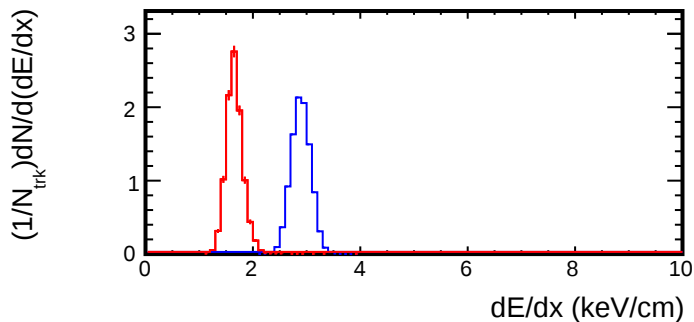


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

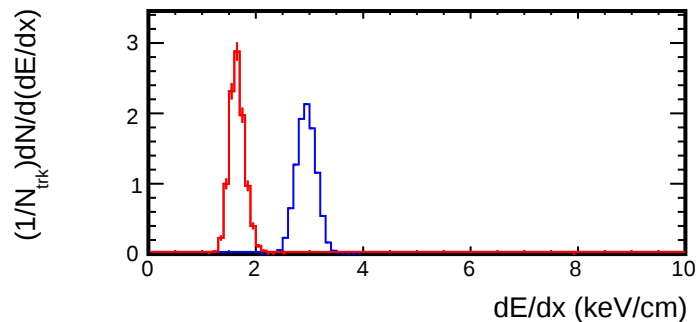
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

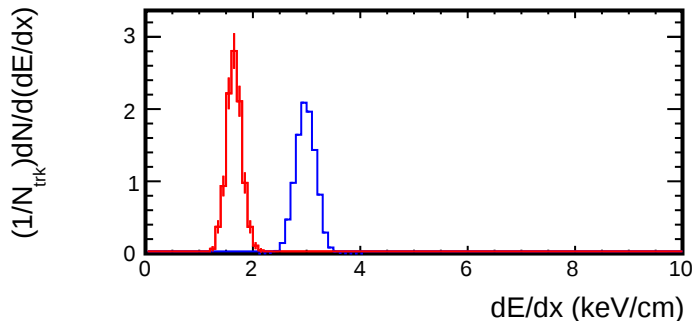
< Mc p < 1.6 GeV/c



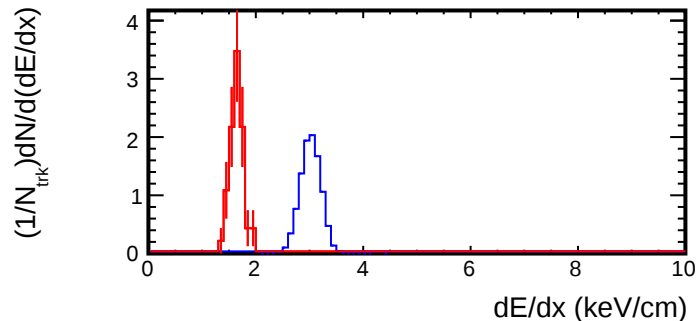
< Mc p < 1.8 GeV/c



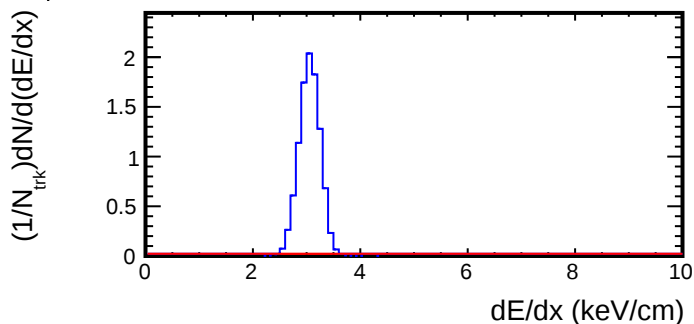
< Mc p < 2.0 GeV/c



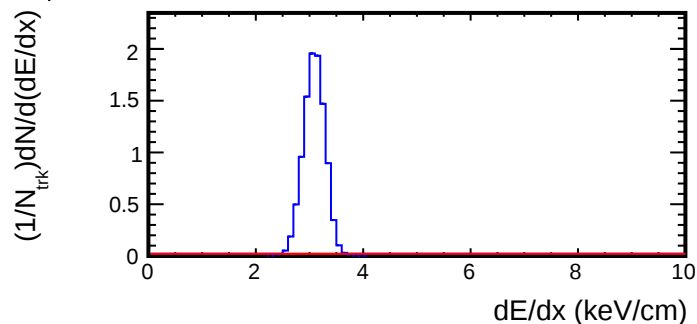
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

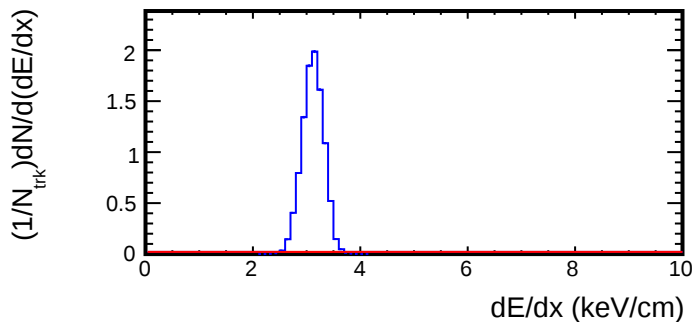


— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

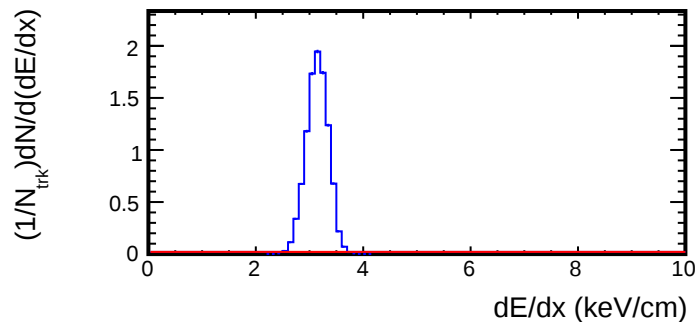
— π^-
(PRIMARY, $|n\sigma_{\pi^-}| < 2$ TPC)

Projection of dE/dx for each p bin

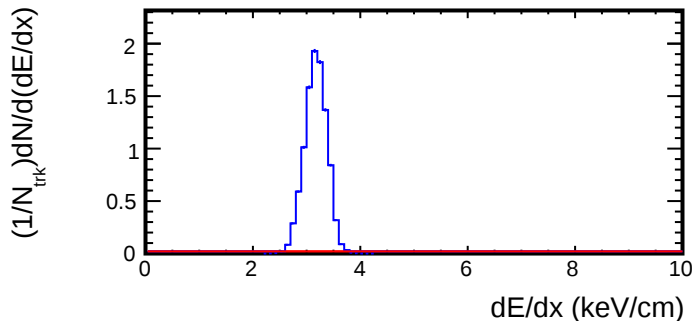
< Mc p < 2.8 GeV/c



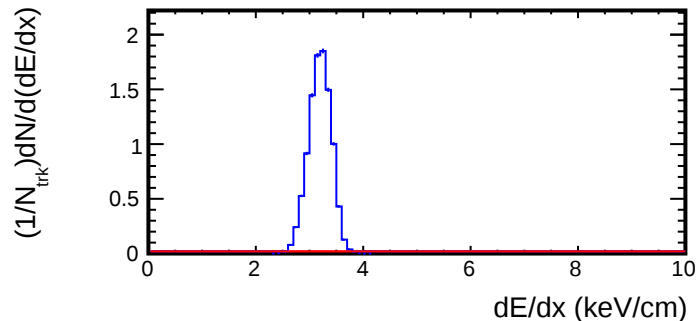
< Mc p < 3.0 GeV/c



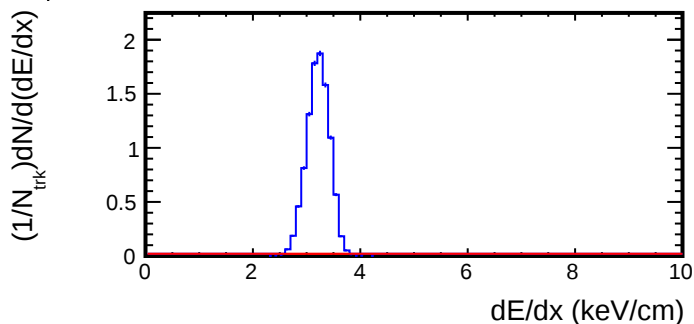
< Mc p < 3.2 GeV/c



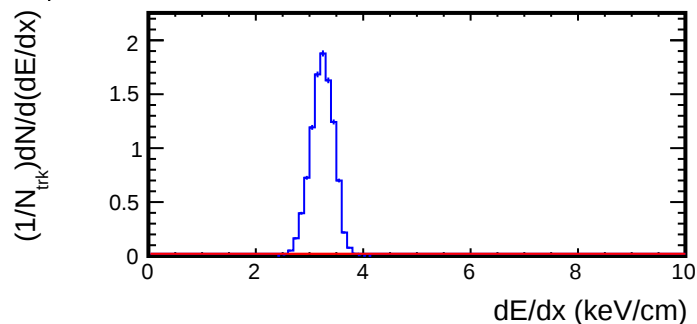
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

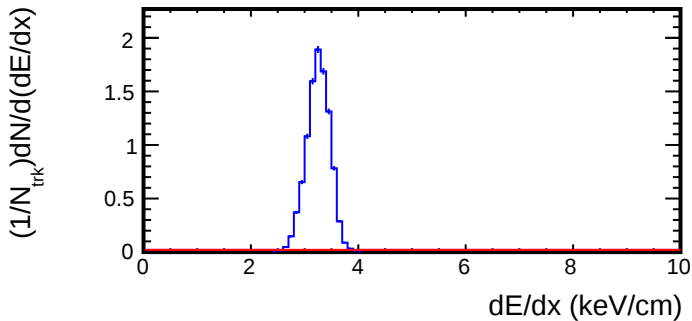


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

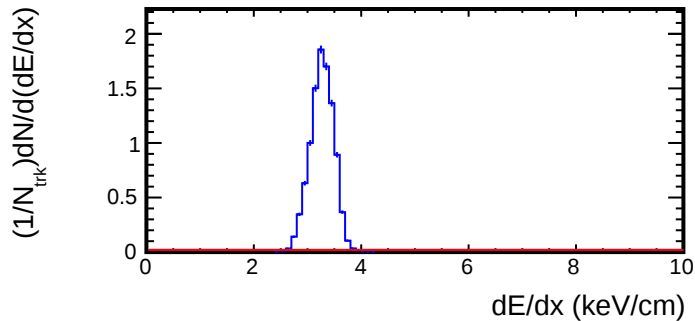
— pi-
(PRIMARY, $|n \sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

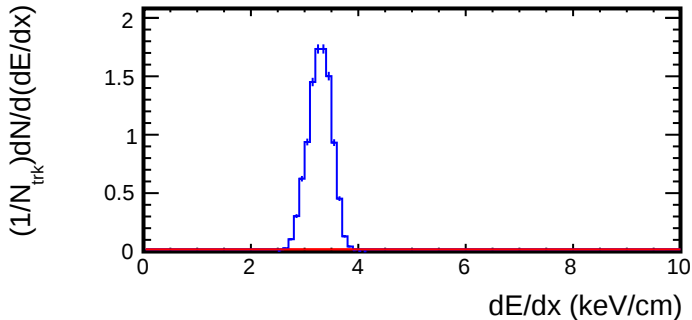
< Mc p < 4.0 GeV/c



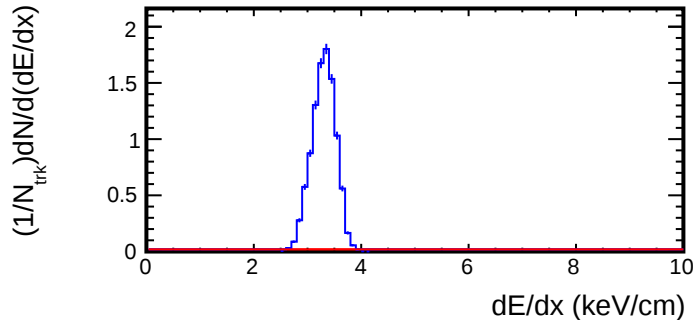
< Mc p < 4.2 GeV/c



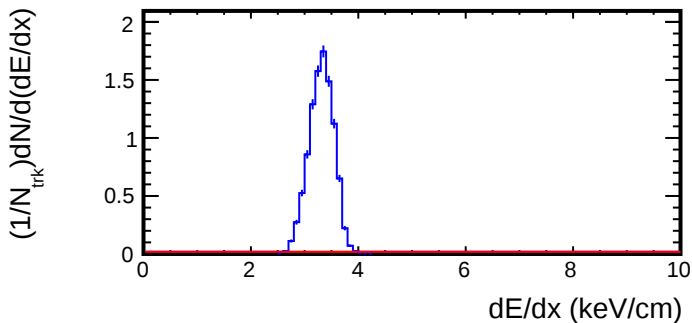
< Mc p < 4.4 GeV/c



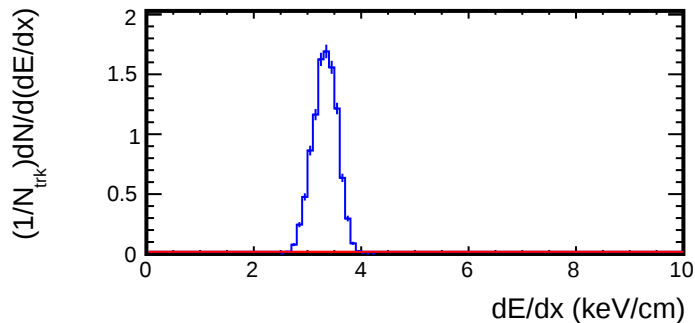
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c

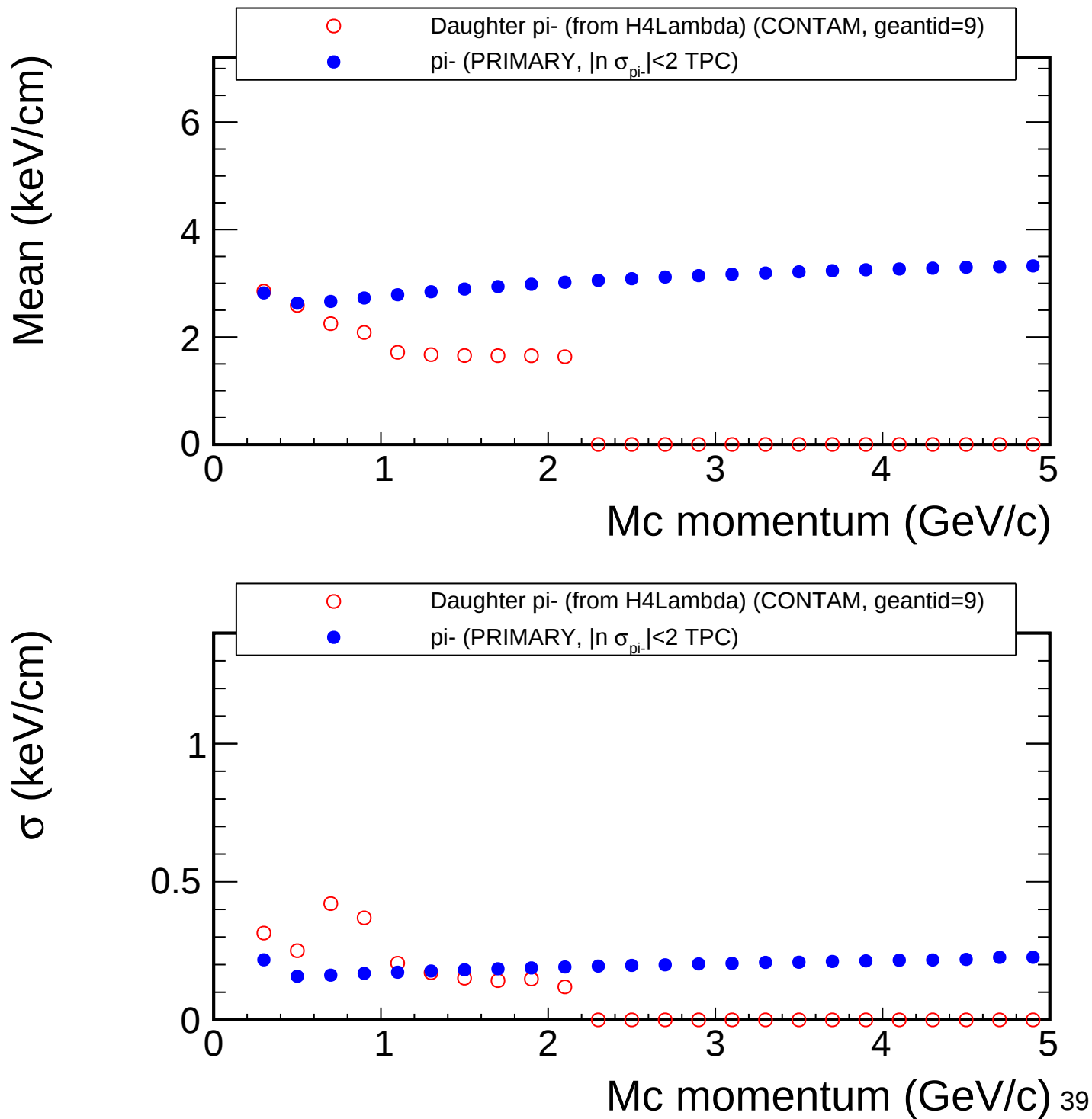


< Mc p < 5.0 GeV/c

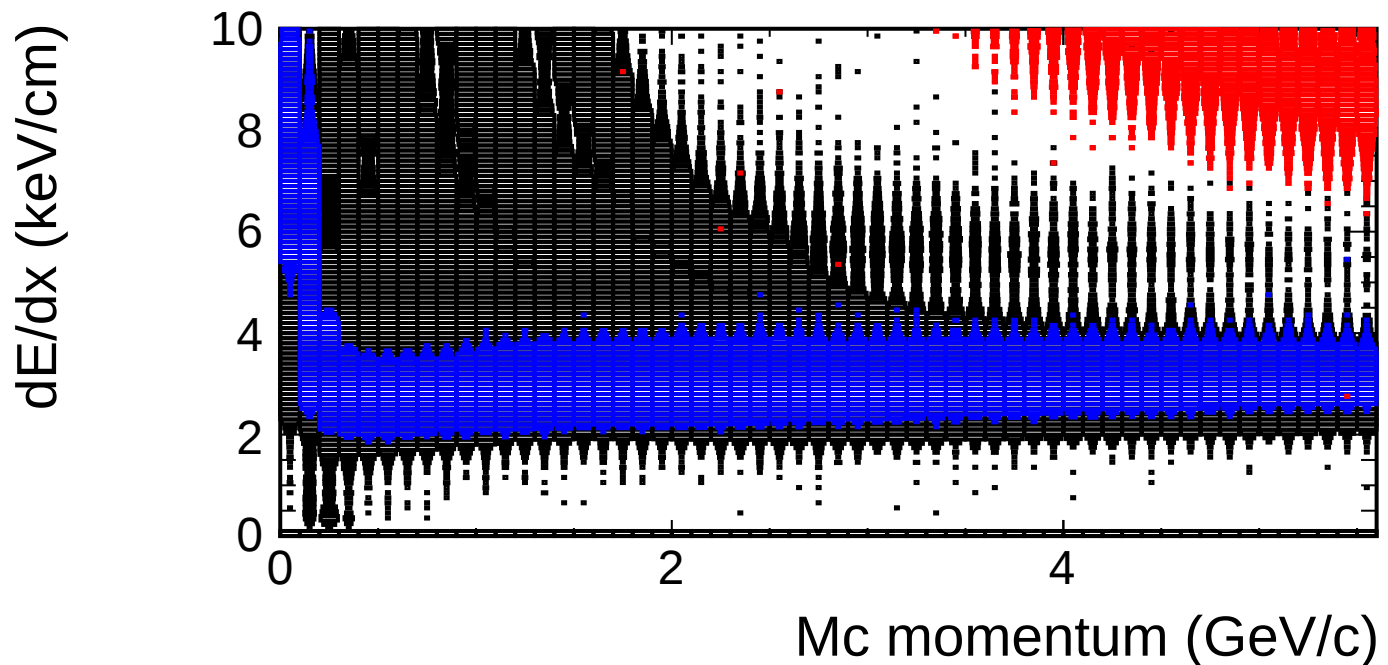


— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

Mean/ σ of dE/dx vs momentum

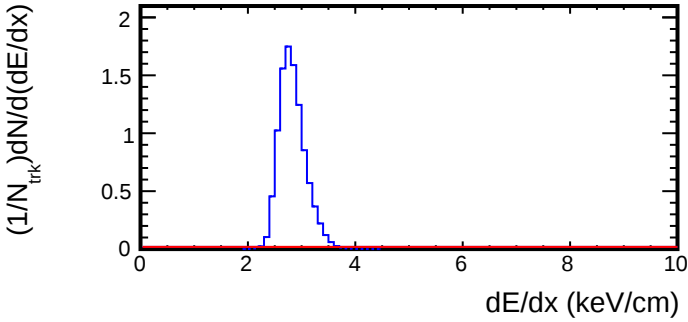
dE/dx vs momentum (Embedding:alpha, Real:alpha)



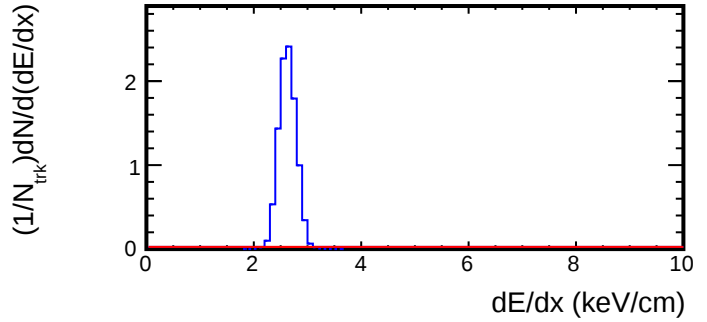
- Daughter alpha (from H4Lambda) (CONTAM, geantid=47)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

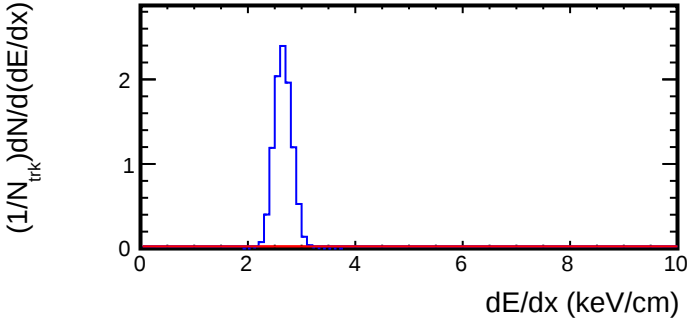
< Mc p < 0.4 GeV/c



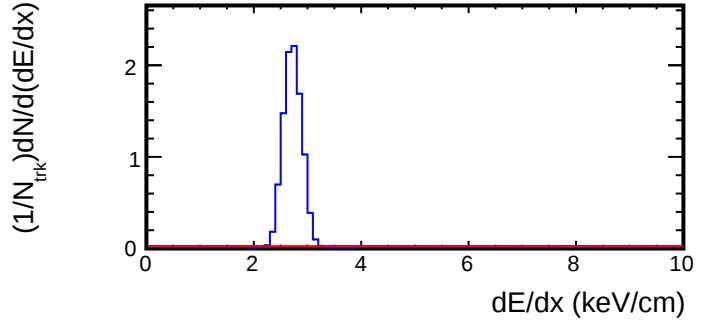
< Mc p < 0.6 GeV/c



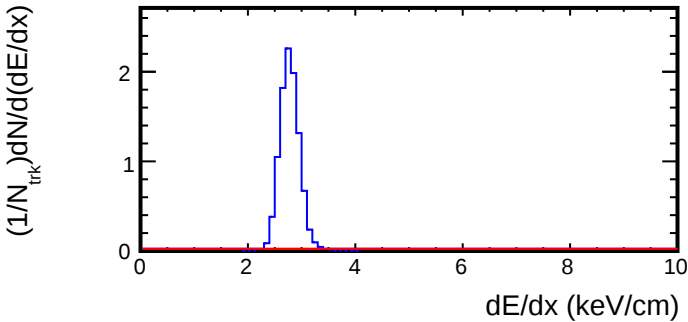
< Mc p < 0.8 GeV/c



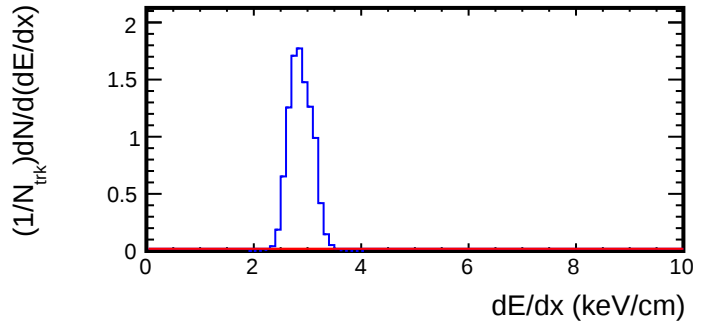
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

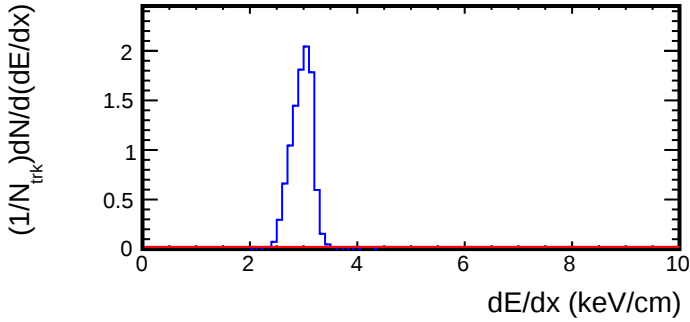


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

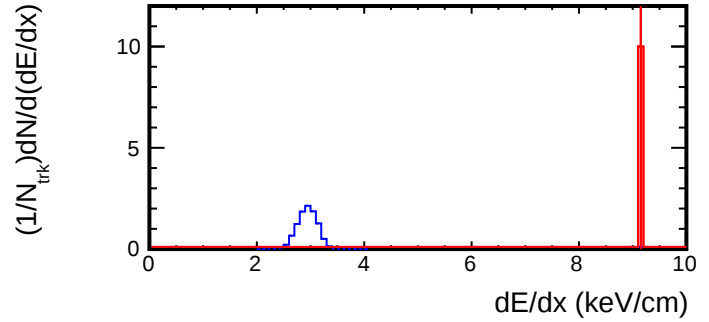
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

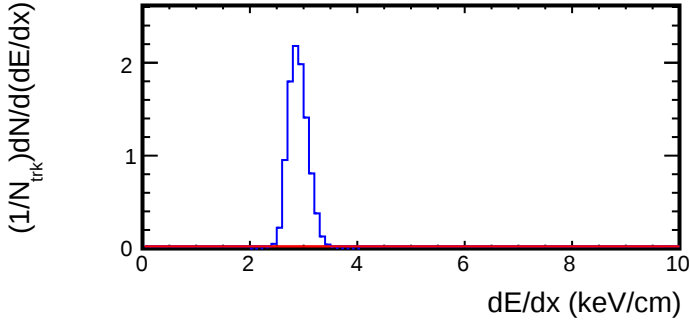
< Mc p < 1.6 GeV/c



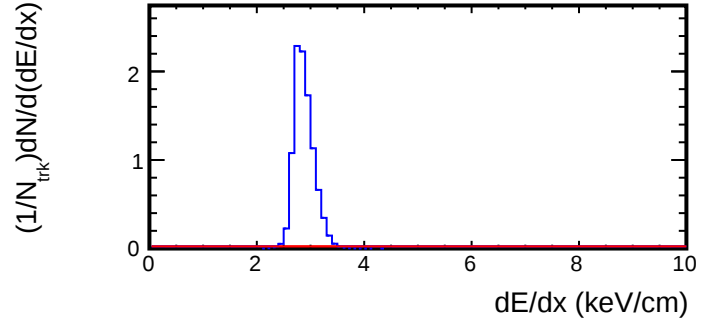
< Mc p < 1.8 GeV/c



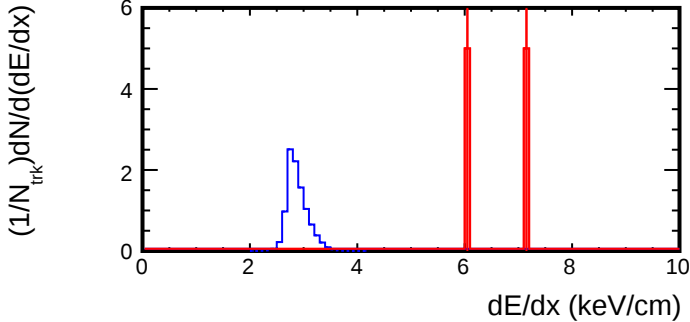
< Mc p < 2.0 GeV/c



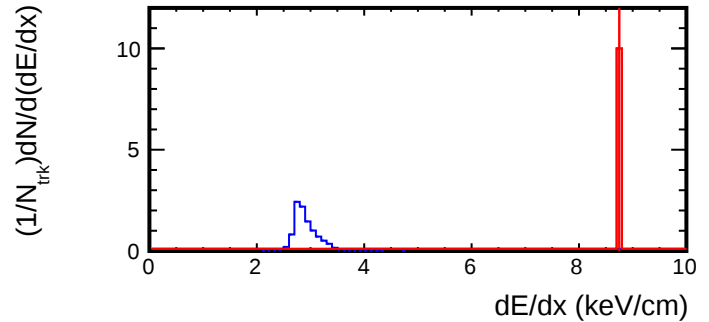
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

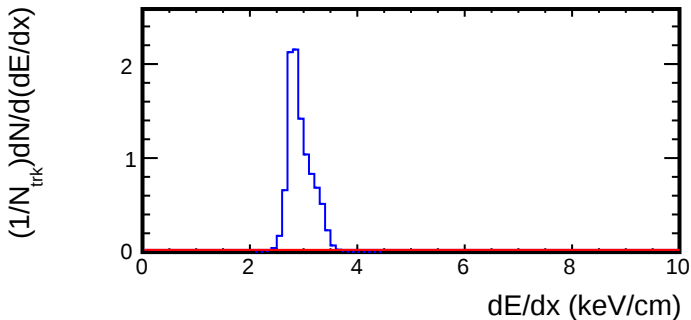


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

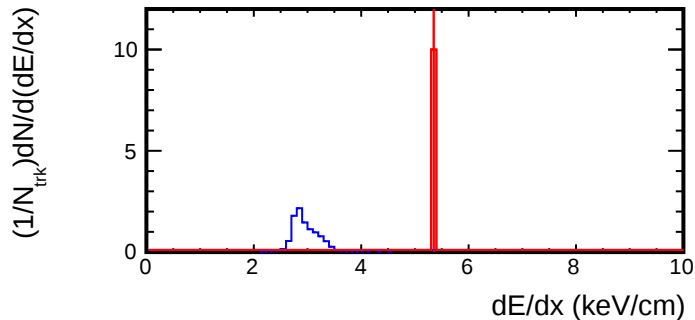
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

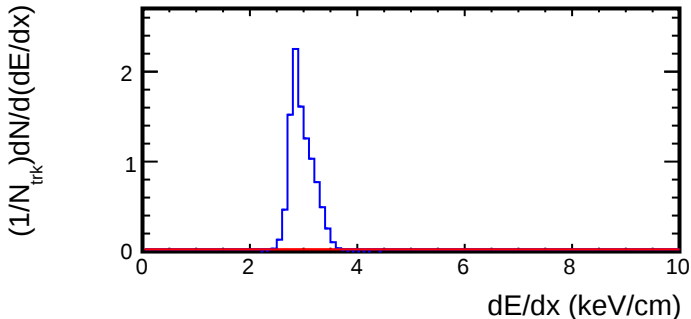
< Mc p < 2.8 GeV/c



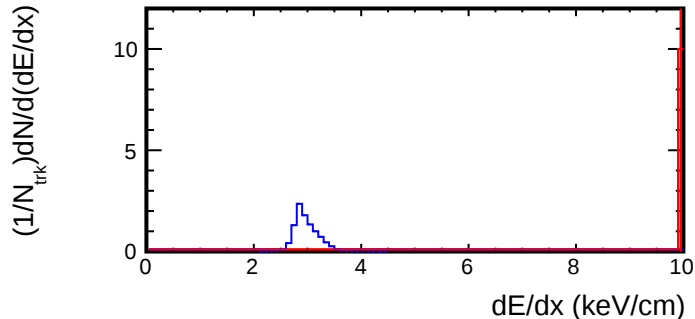
< Mc p < 3.0 GeV/c



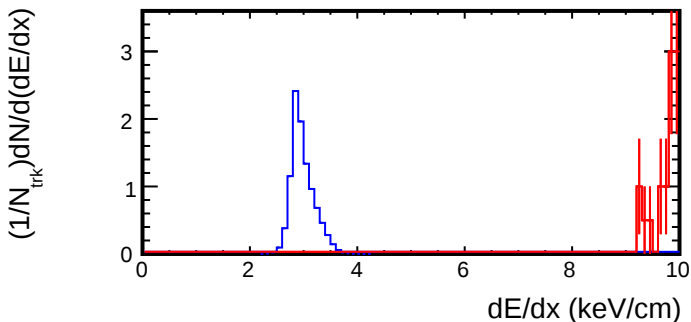
< Mc p < 3.2 GeV/c



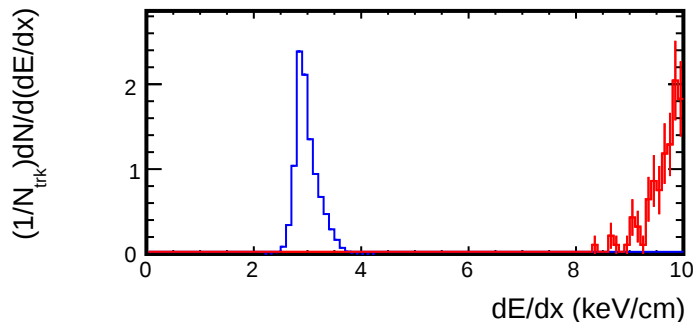
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

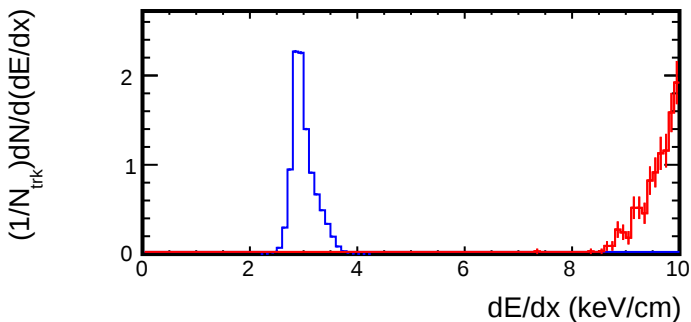


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

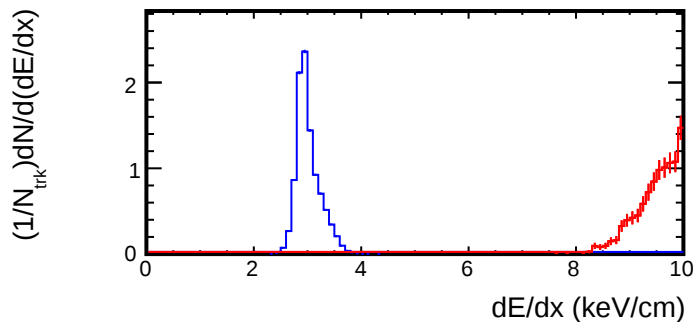
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

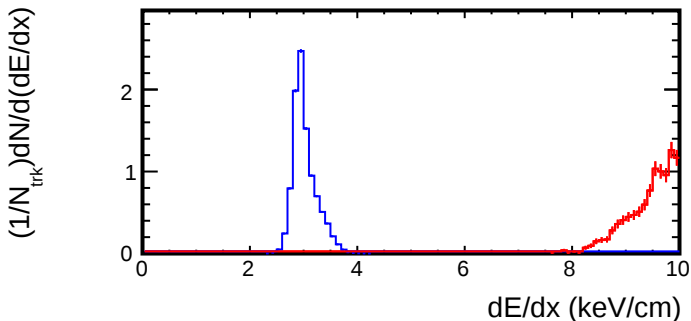
< Mc p < 4.0 GeV/c



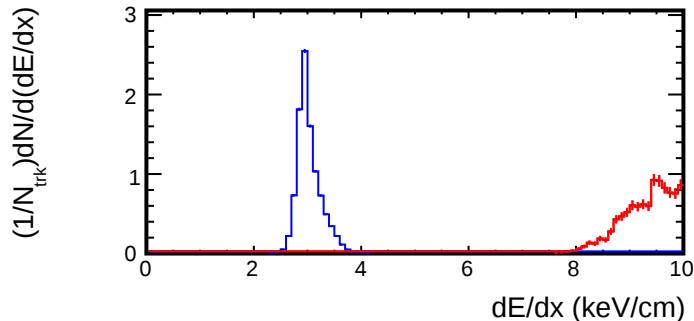
< Mc p < 4.2 GeV/c



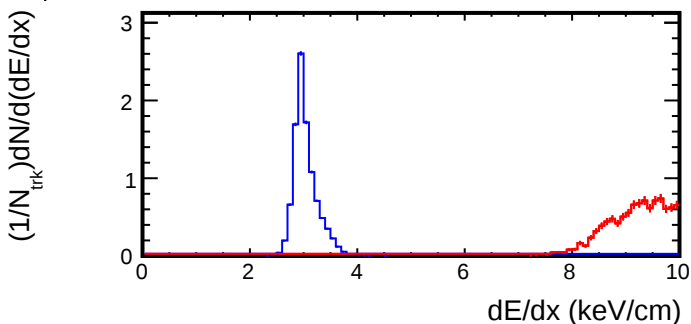
< Mc p < 4.4 GeV/c



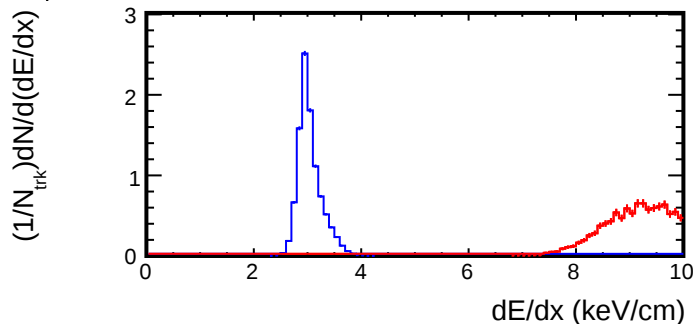
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



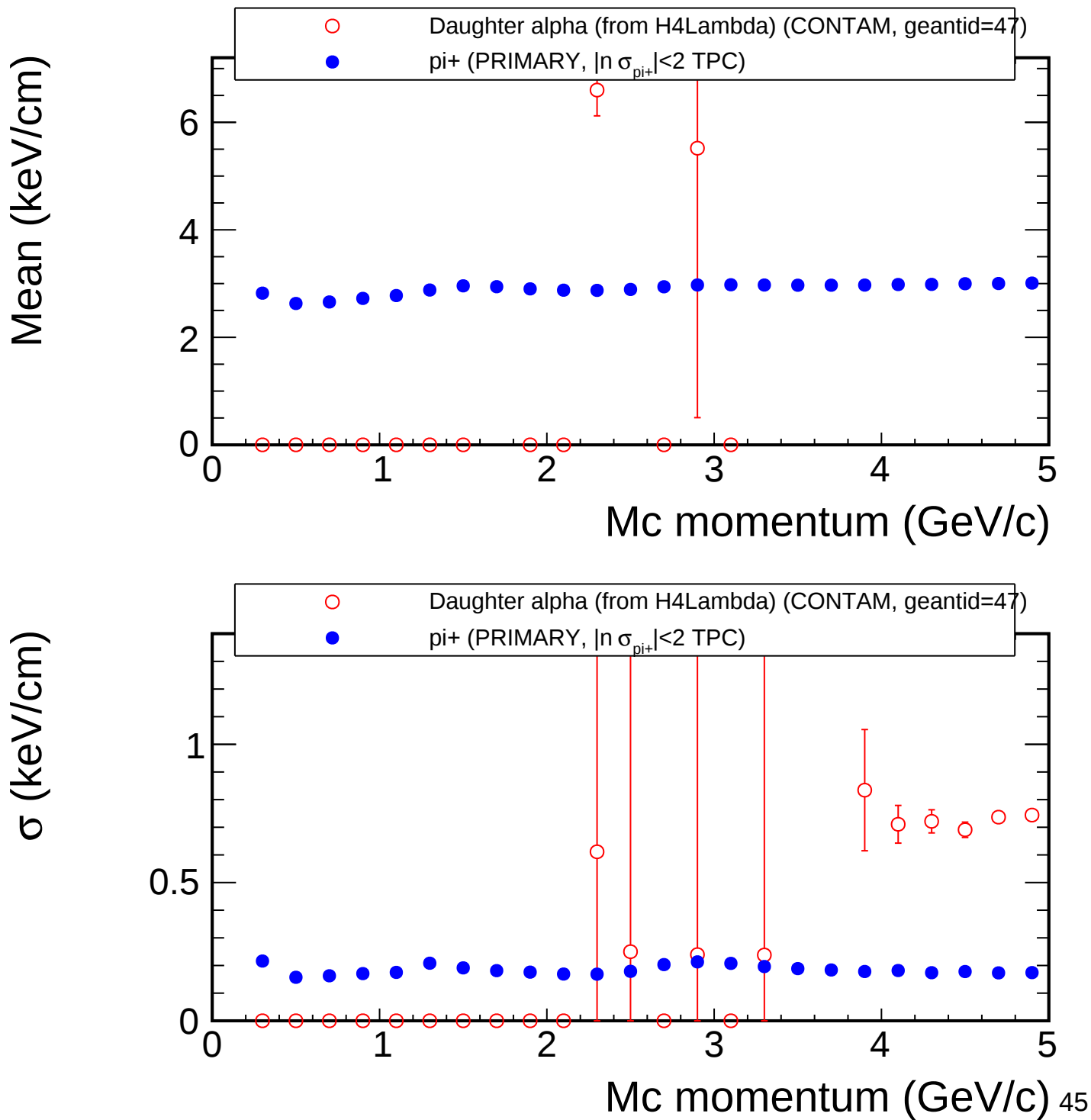
< Mc p < 5.0 GeV/c



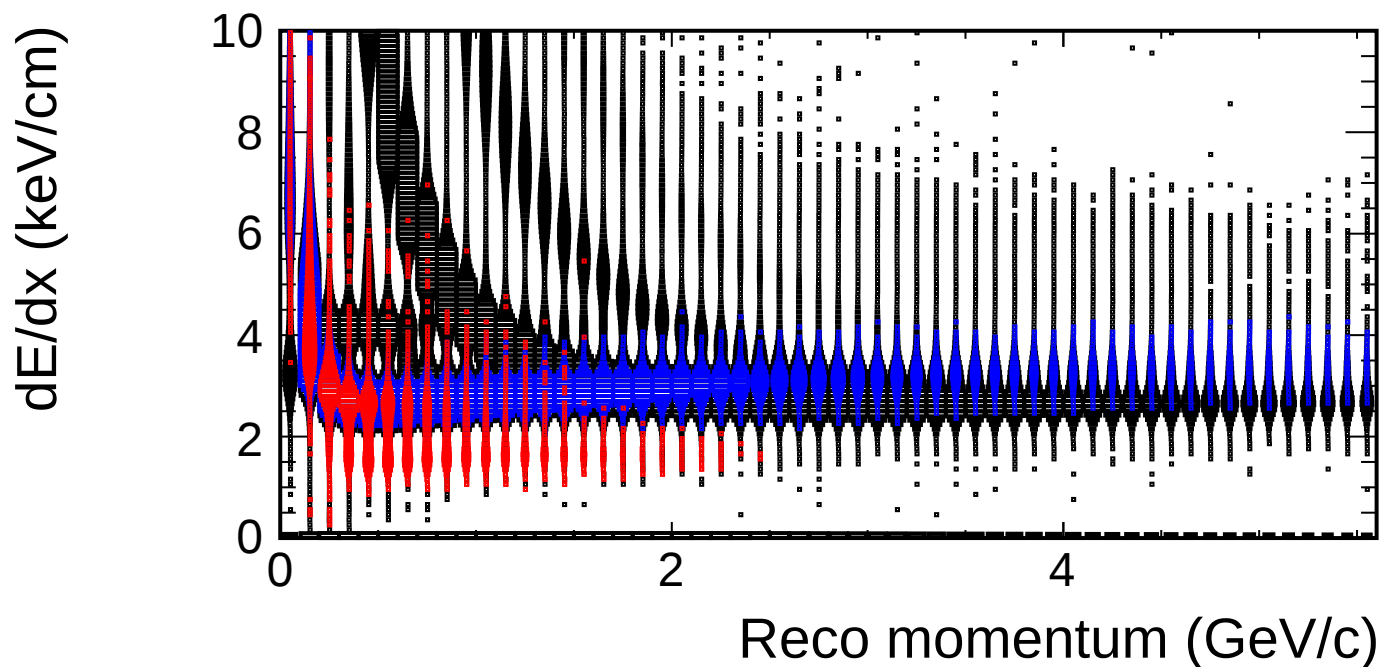
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Mean/ σ of dE/dx vs momentum



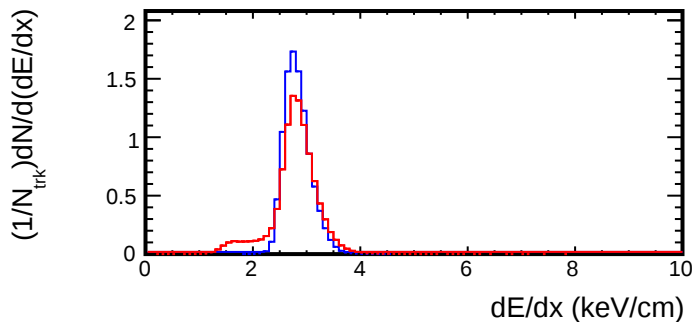
dE/dx vs momentum (Embedding:pi-, Real:pi-)



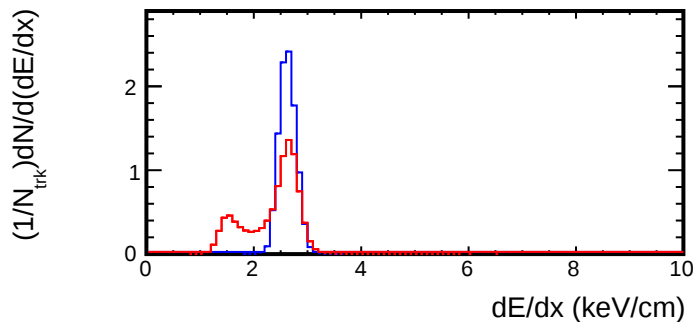
- Daughter pi- (from H4Lambda) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

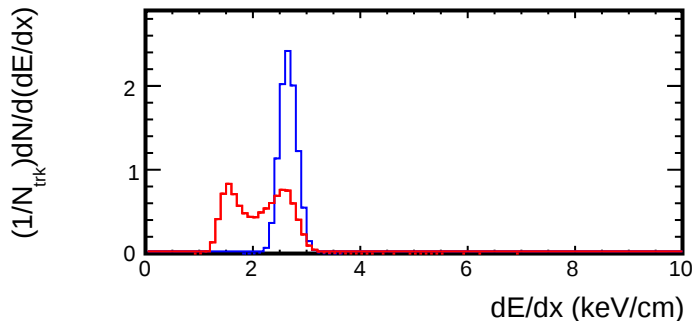
Reco p < 0.4 GeV/c



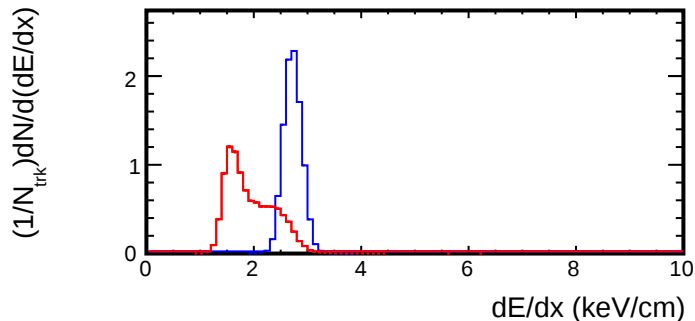
Reco p < 0.6 GeV/c



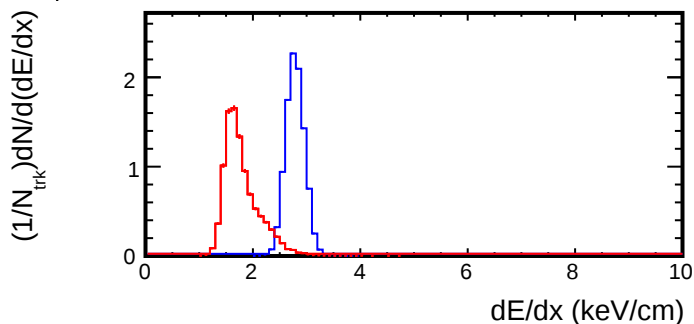
Reco p < 0.8 GeV/c



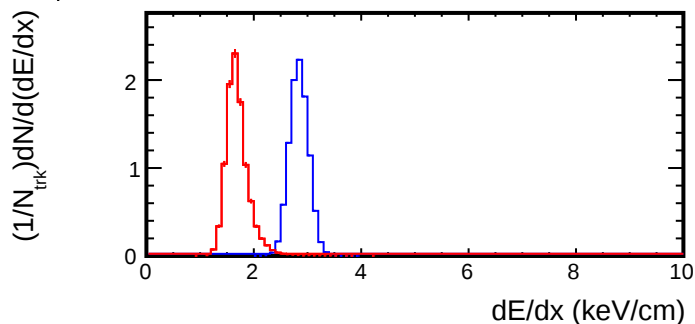
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



Reco p < 1.4 GeV/c

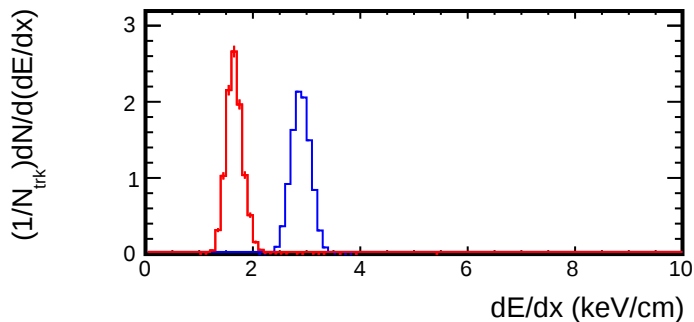


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

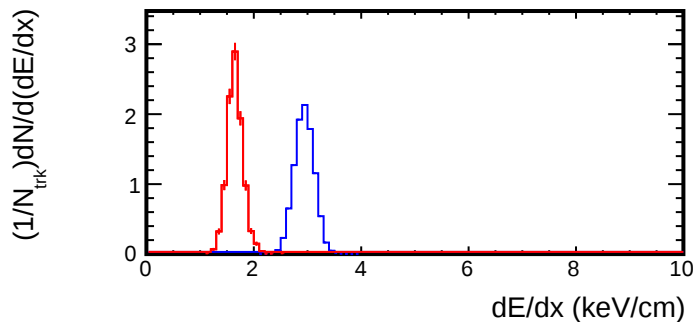
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

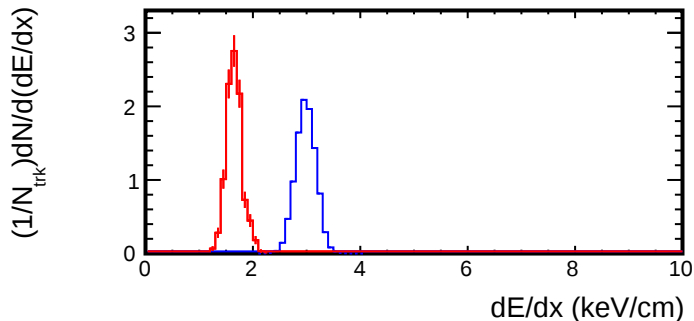
Reco p < 1.6 GeV/c



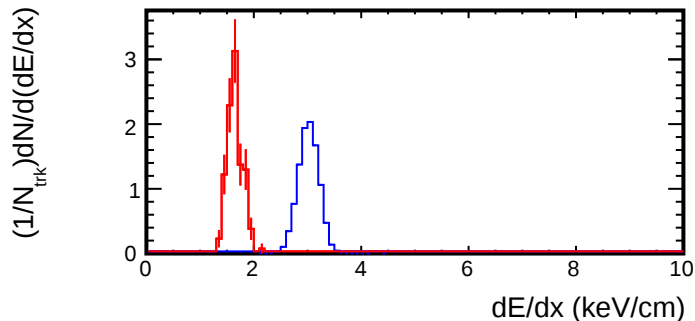
Reco p < 1.8 GeV/c



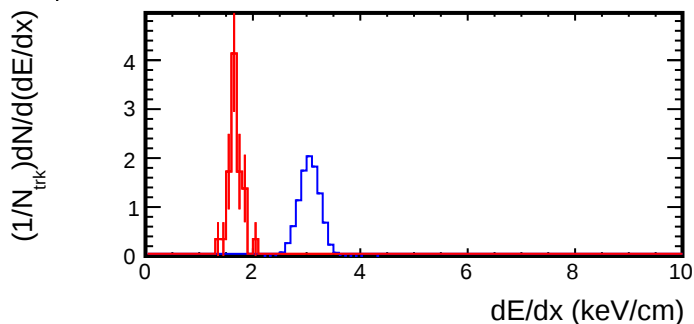
Reco p < 2.0 GeV/c



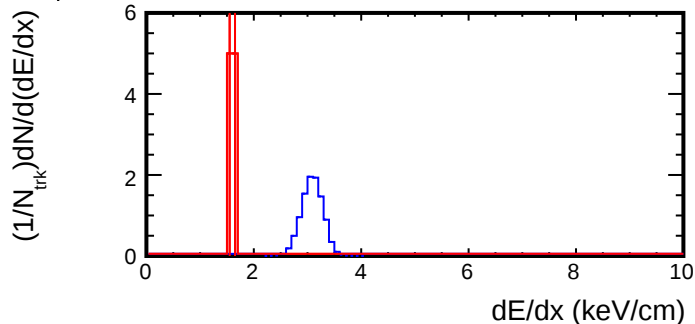
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



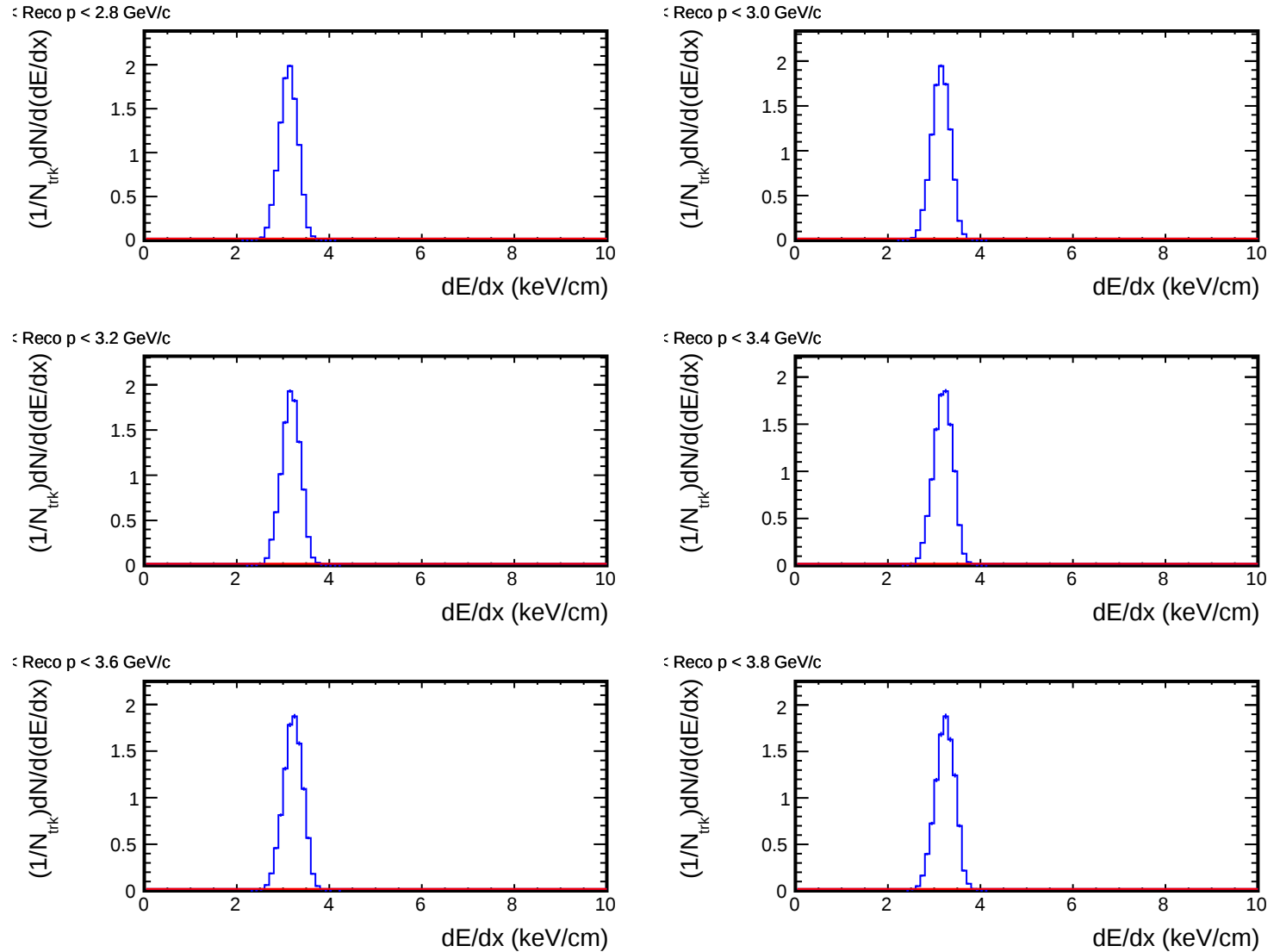
Reco p < 2.6 GeV/c



— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Projection of dE/dx for each p bin

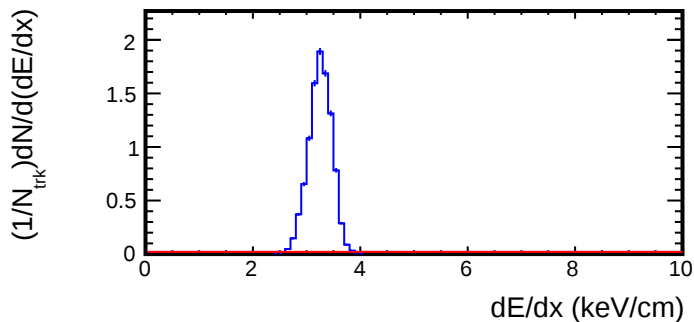


— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

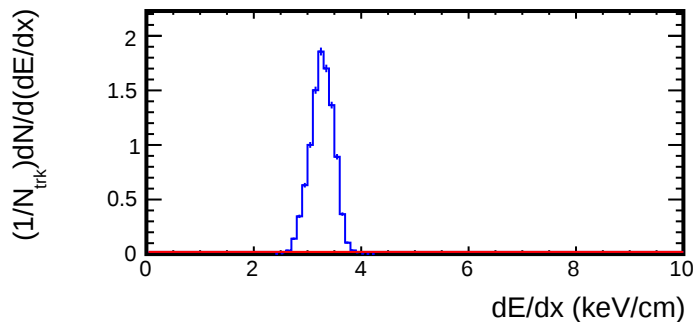
— π^-
(PRIMARY, $|n \sigma_{\pi^-}| < 2$ TPC)

Projection of dE/dx for each p bin

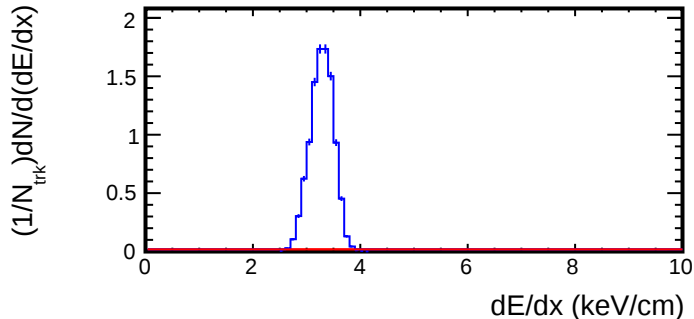
Reco p < 4.0 GeV/c



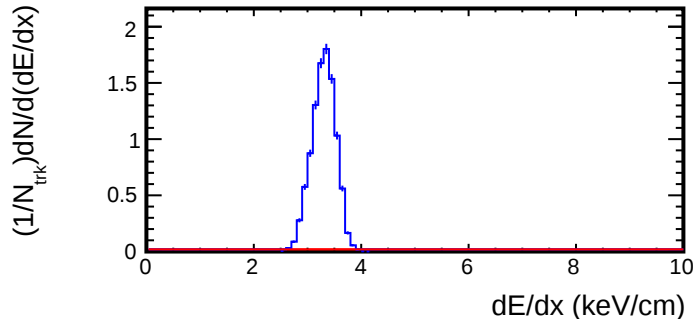
Reco p < 4.2 GeV/c



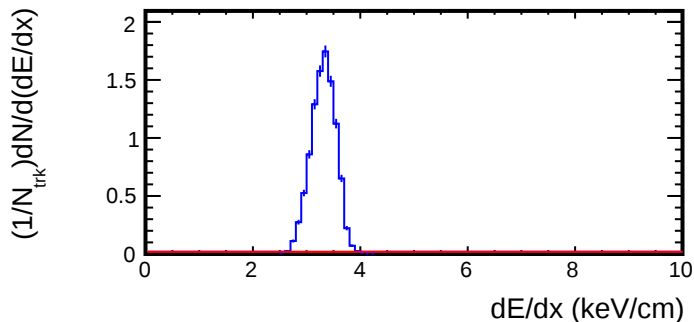
Reco p < 4.4 GeV/c



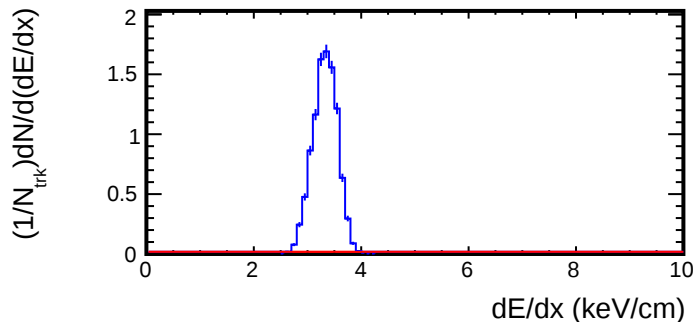
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c

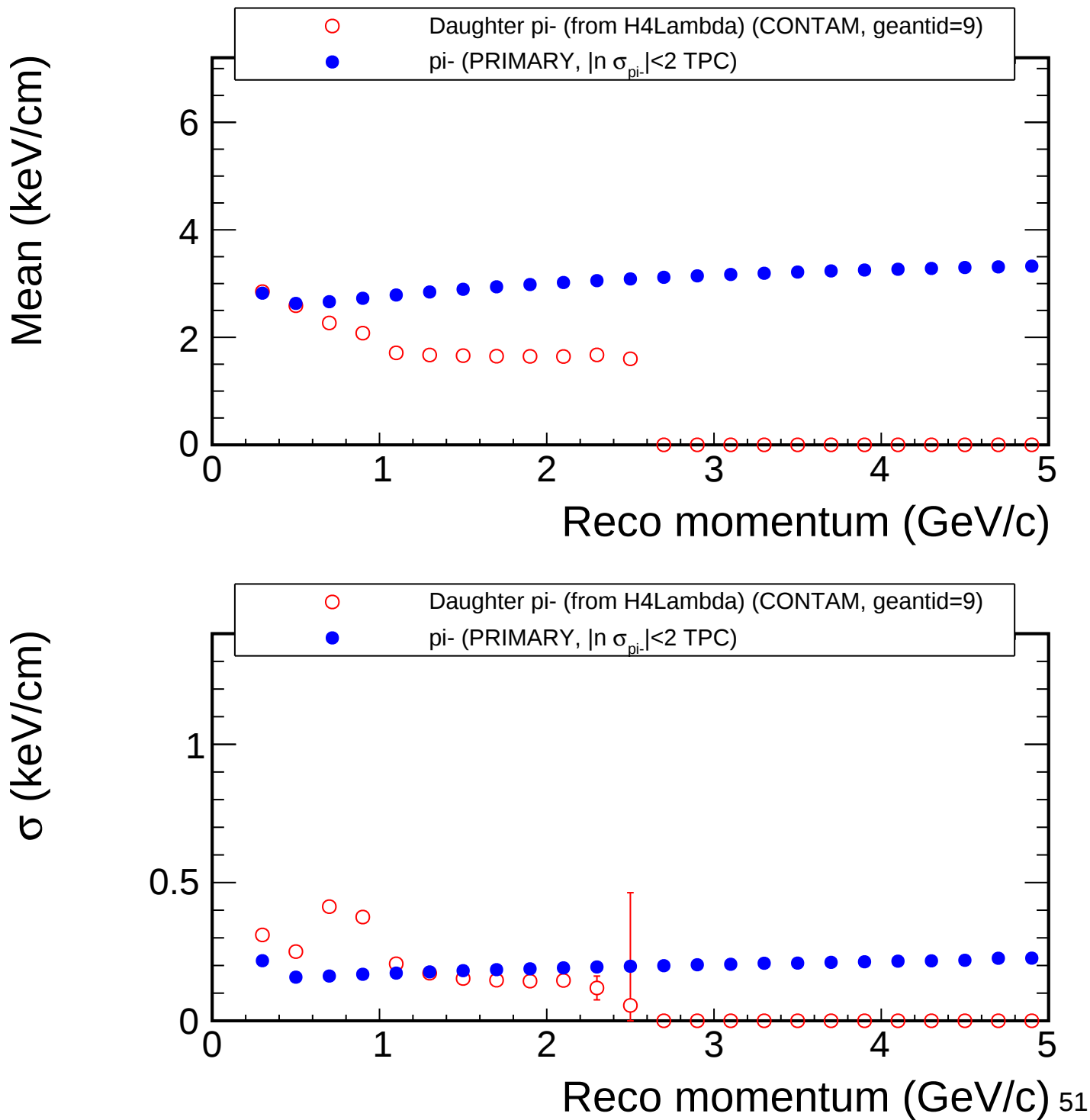


Reco p < 5.0 GeV/c

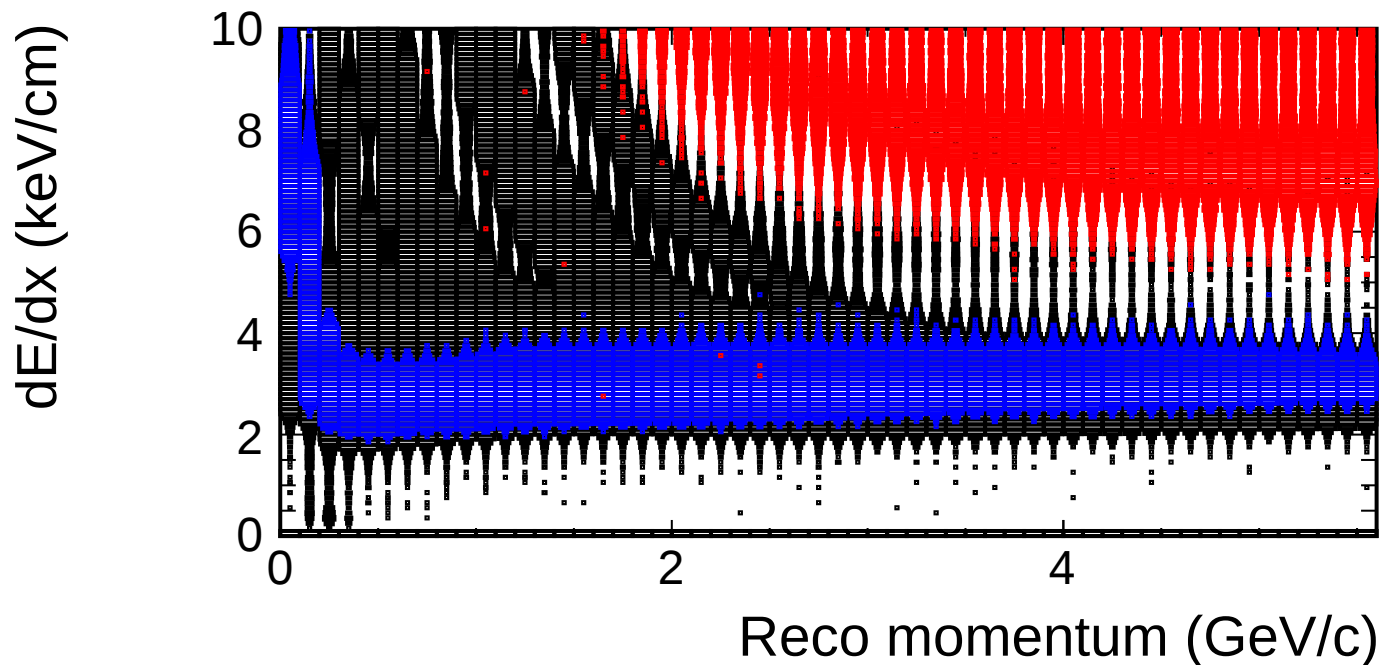


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Mean/ σ of dE/dx vs momentum

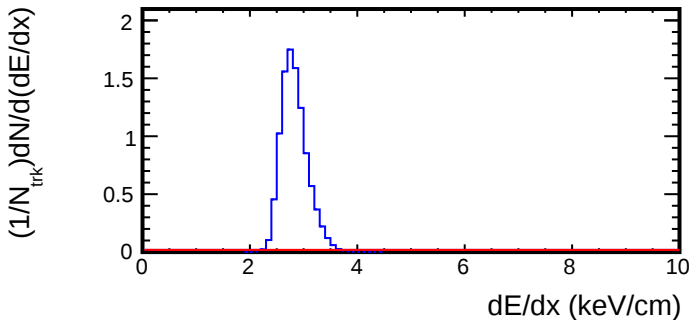
dE/dx vs momentum (Embedding:alpha, Real:alpha)



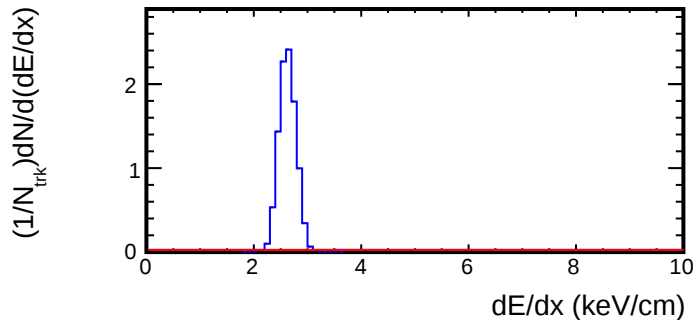
- Daughter alpha (from H4Lambda) (CONTAM, geantid=47)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

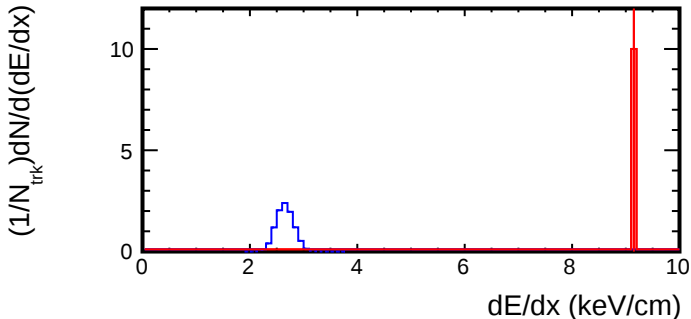
Reco p < 0.4 GeV/c



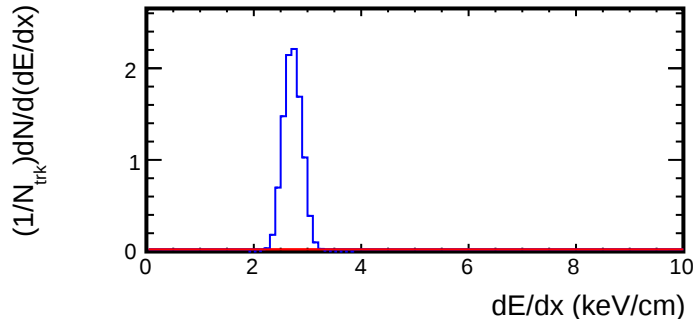
Reco p < 0.6 GeV/c



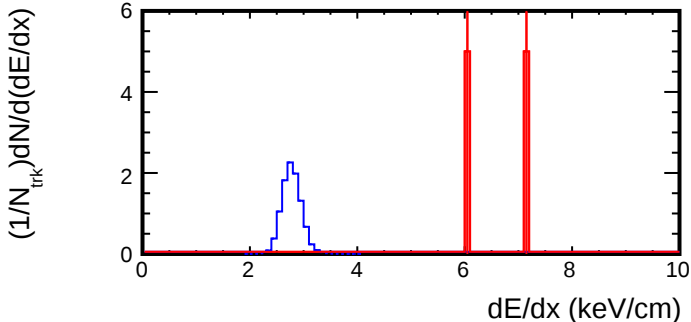
Reco p < 0.8 GeV/c



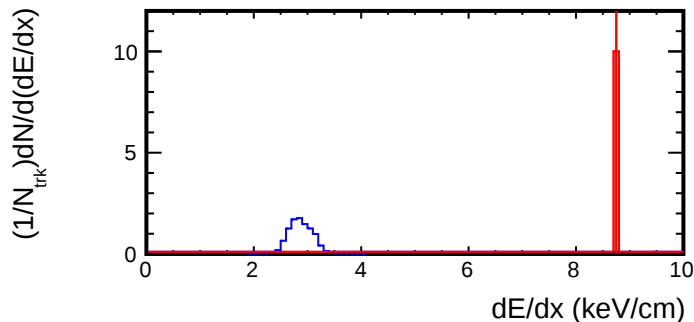
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



Reco p < 1.4 GeV/c

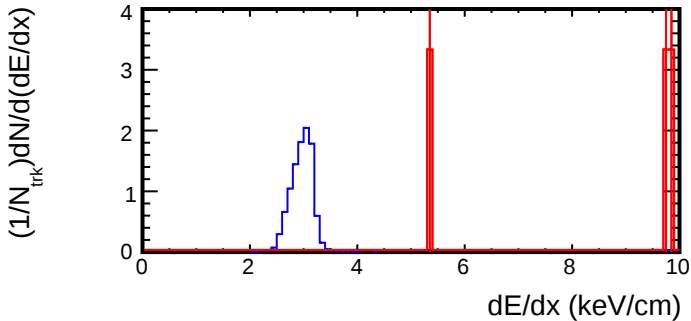


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

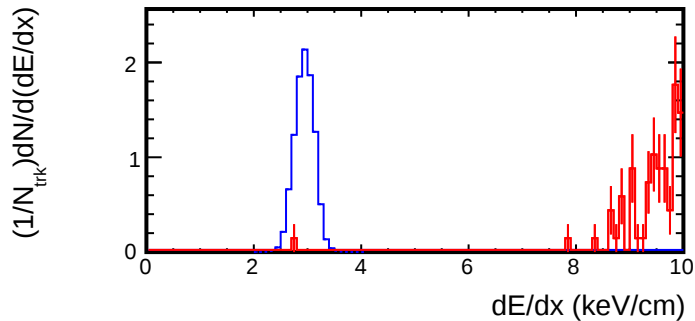
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

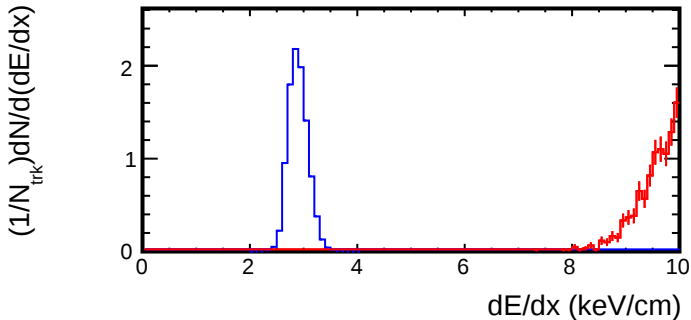
Reco p < 1.6 GeV/c



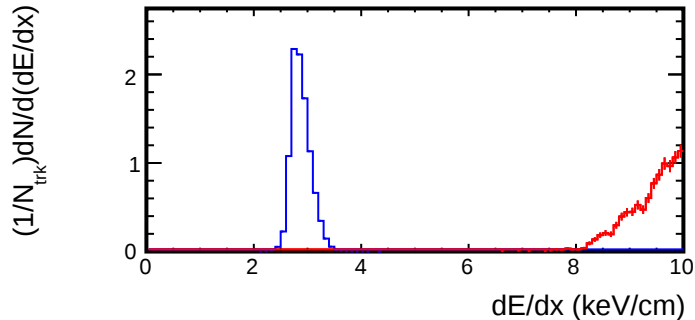
Reco p < 1.8 GeV/c



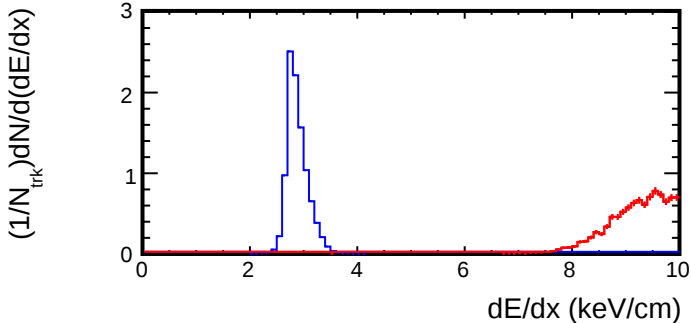
Reco p < 2.0 GeV/c



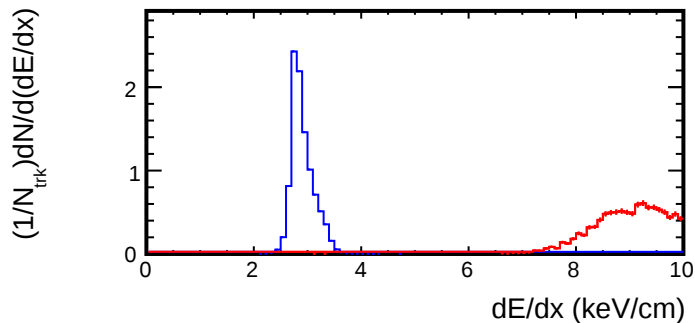
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



Reco p < 2.6 GeV/c

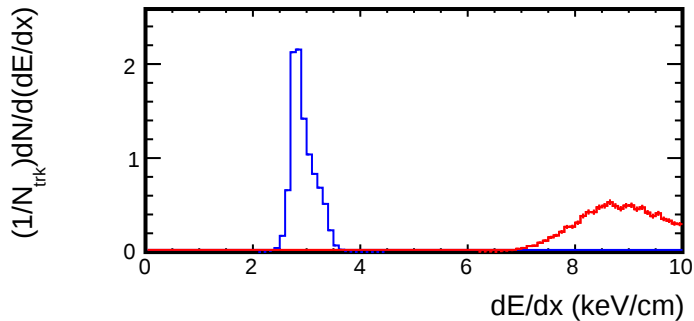


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

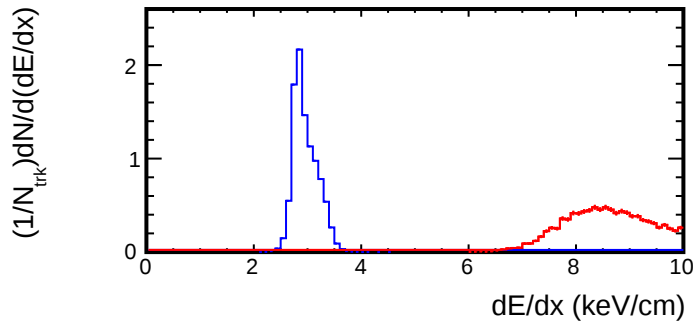
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

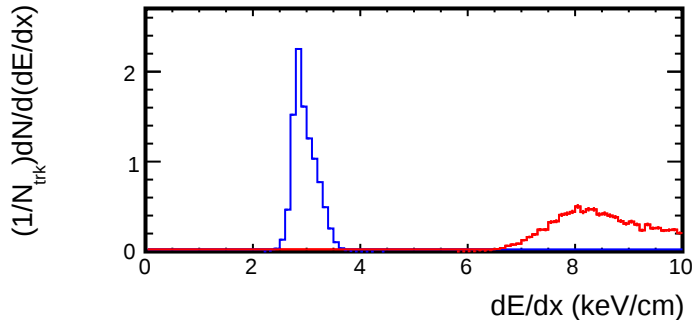
Reco p < 2.8 GeV/c



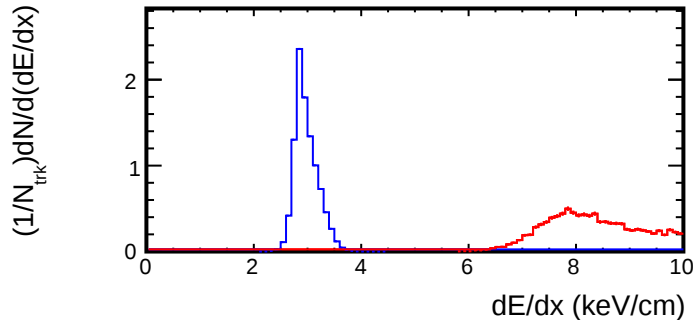
Reco p < 3.0 GeV/c



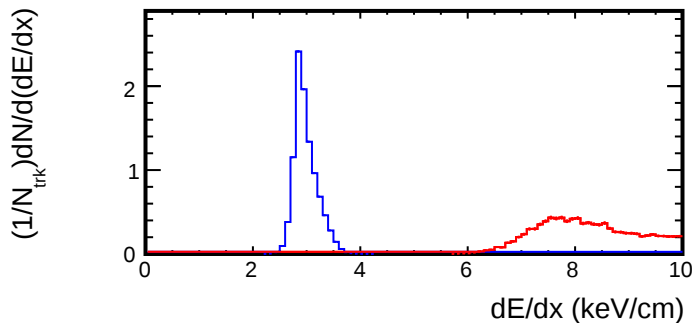
Reco p < 3.2 GeV/c



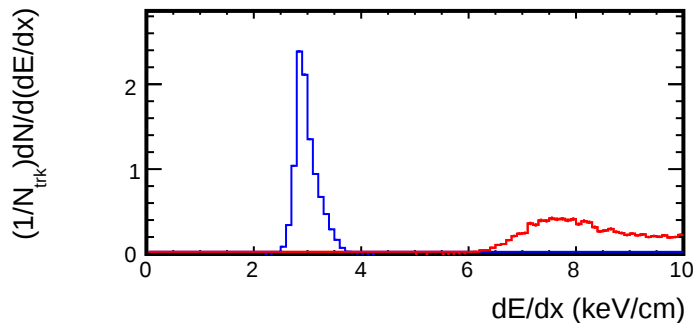
Reco p < 3.4 GeV/c



Reco p < 3.6 GeV/c



Reco p < 3.8 GeV/c

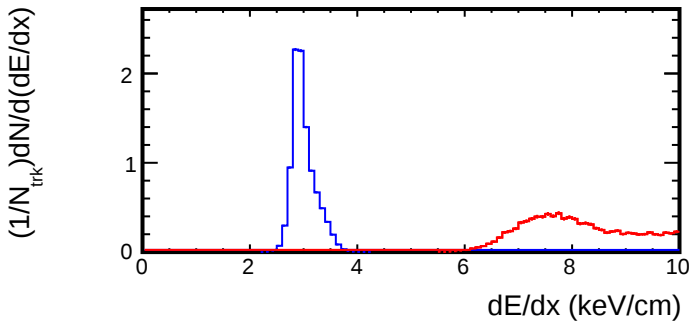


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

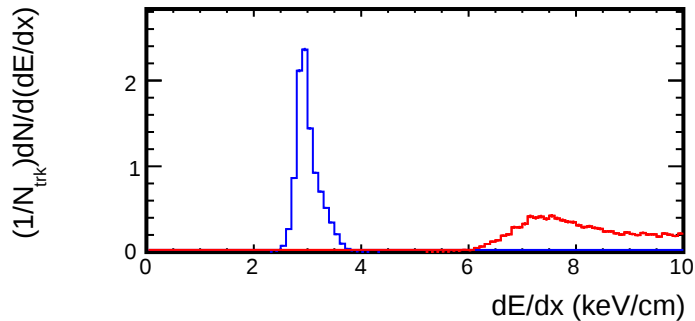
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

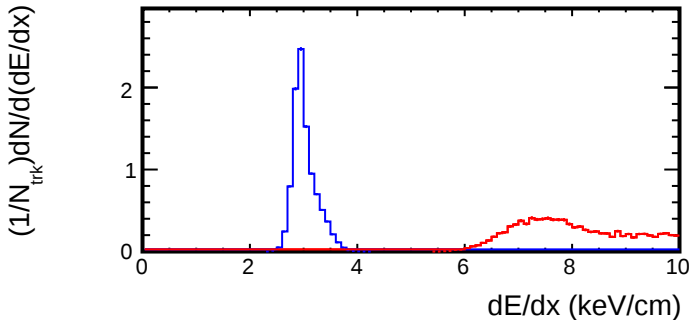
Reco p < 4.0 GeV/c



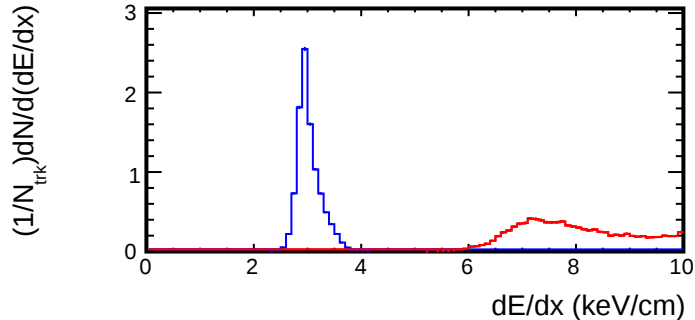
Reco p < 4.2 GeV/c



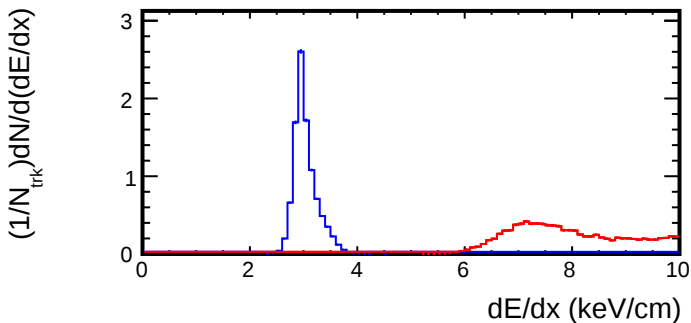
Reco p < 4.4 GeV/c



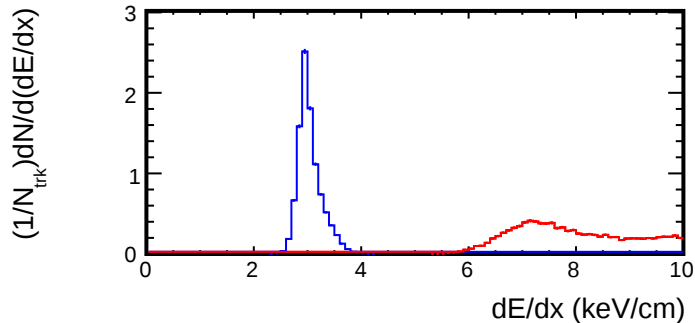
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c



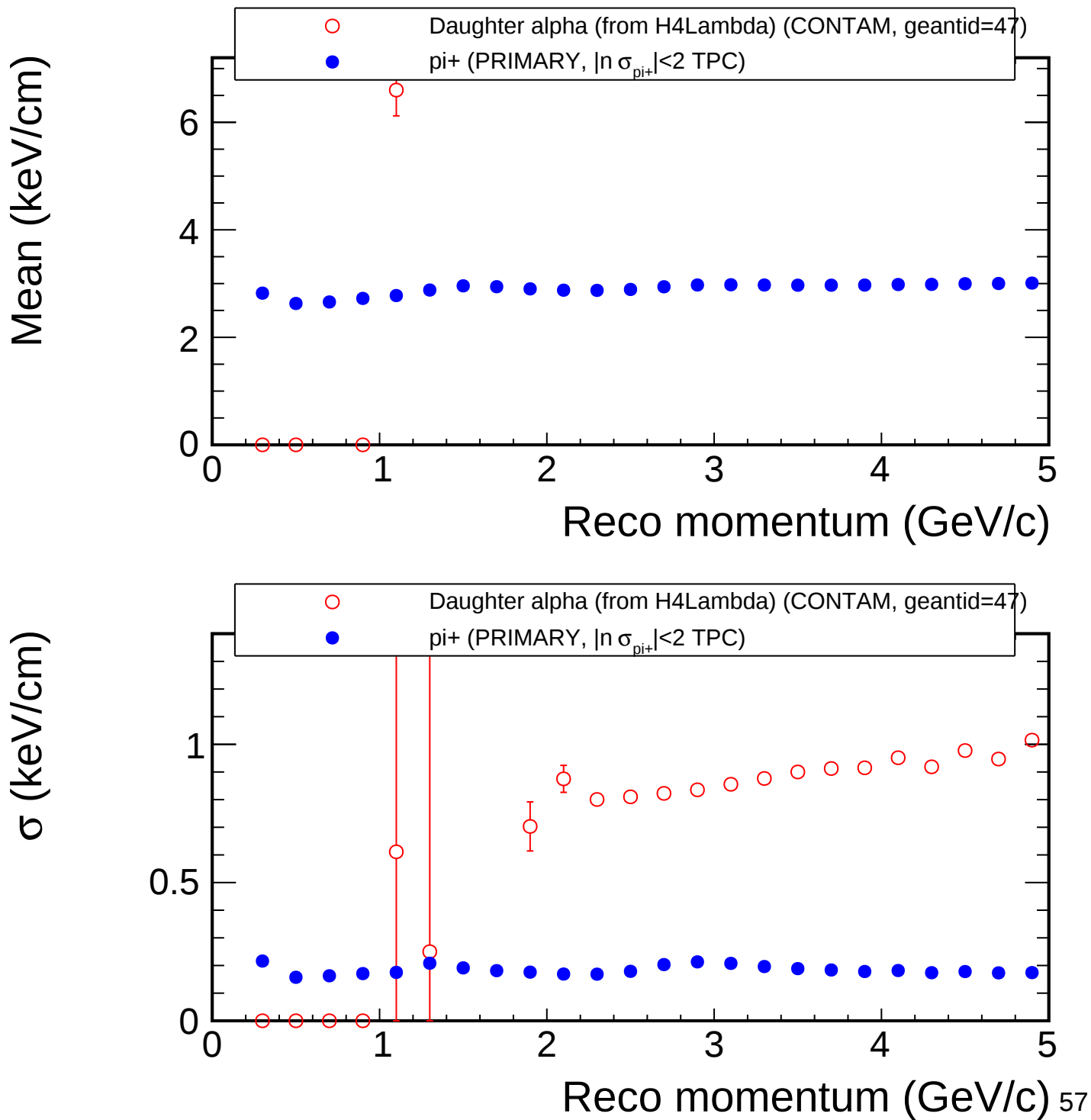
Reco p < 5.0 GeV/c

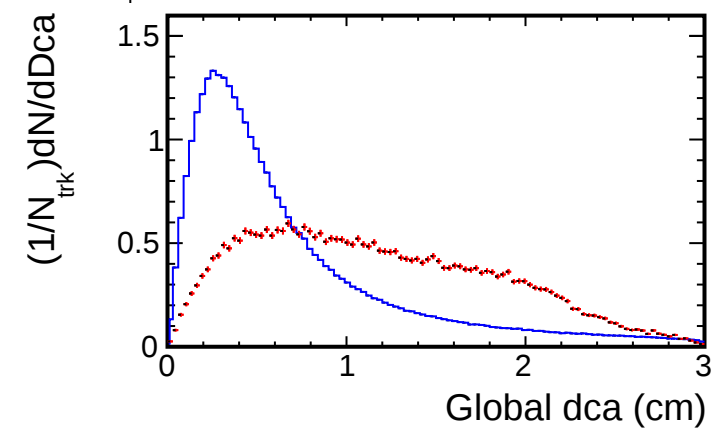
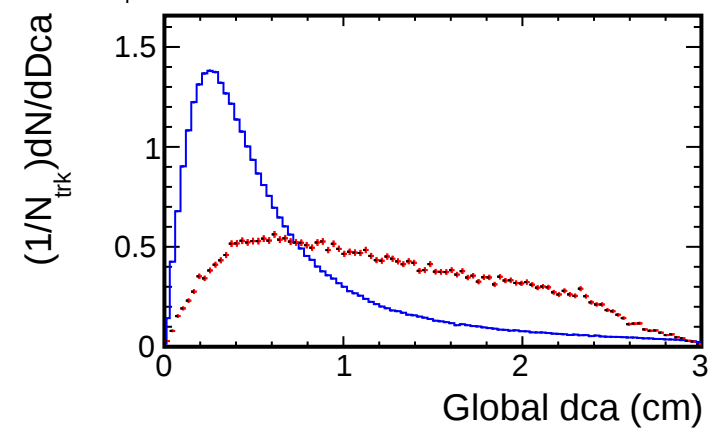
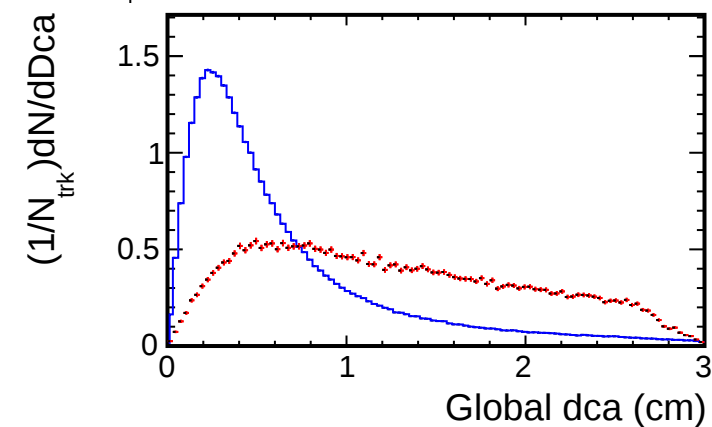
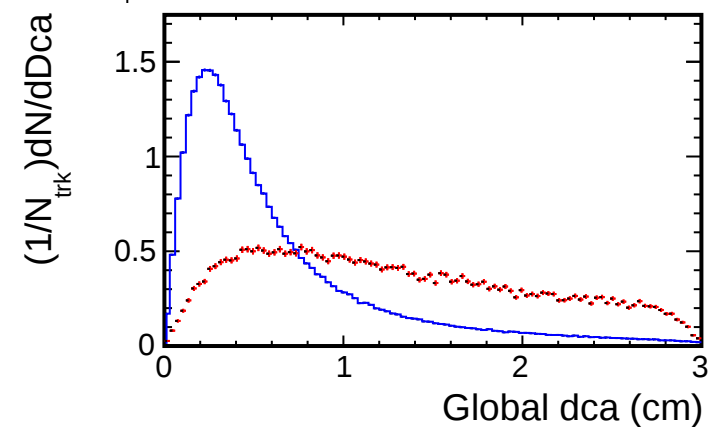
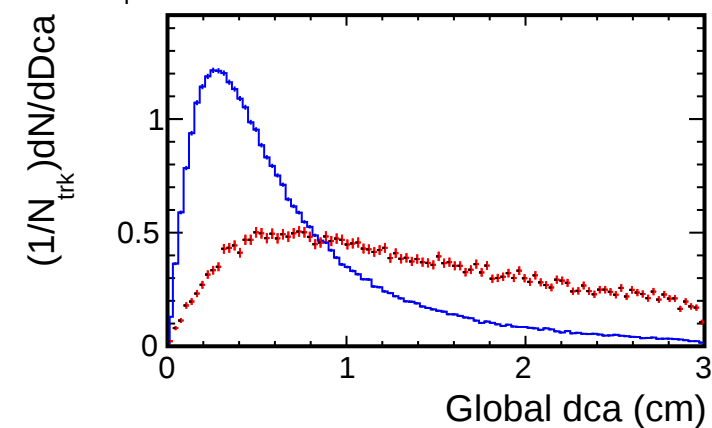


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

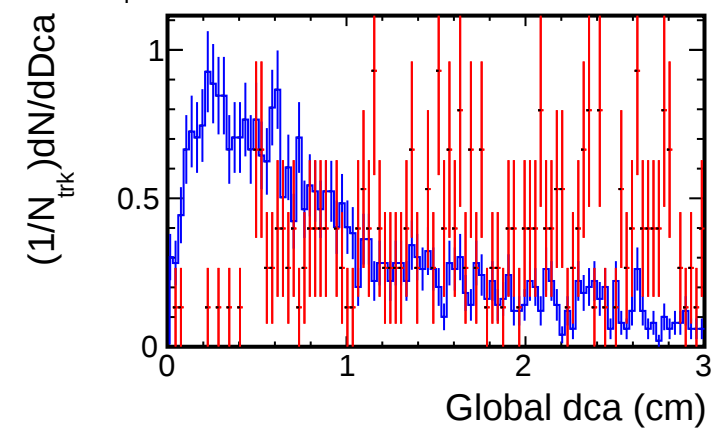
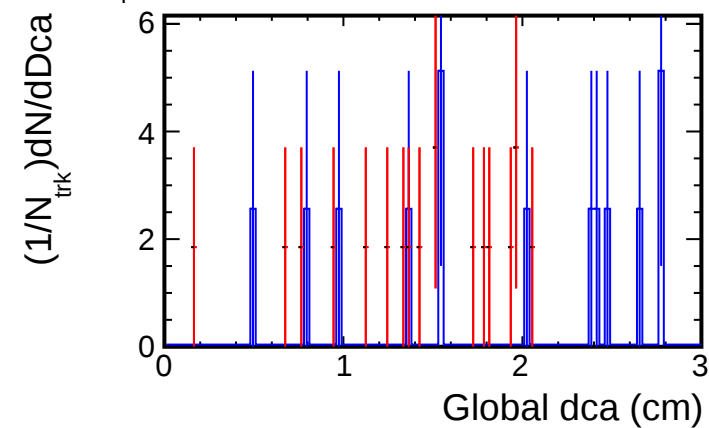
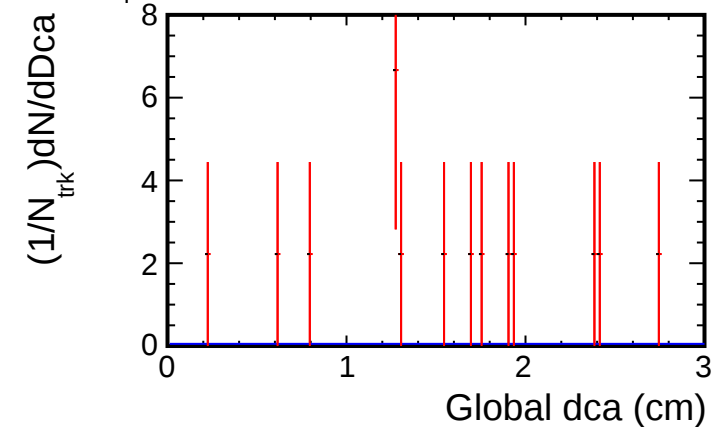
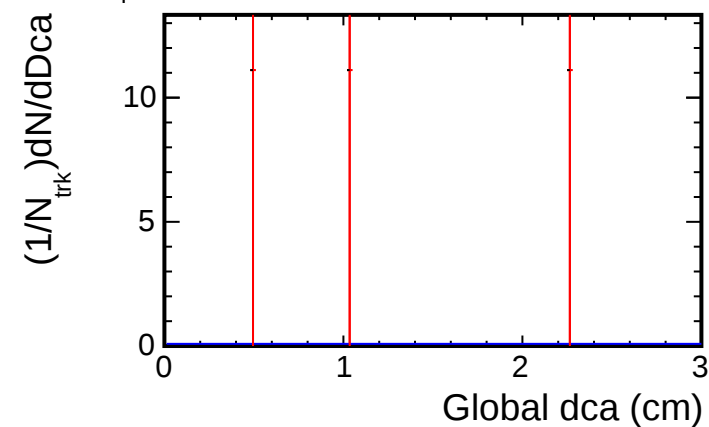
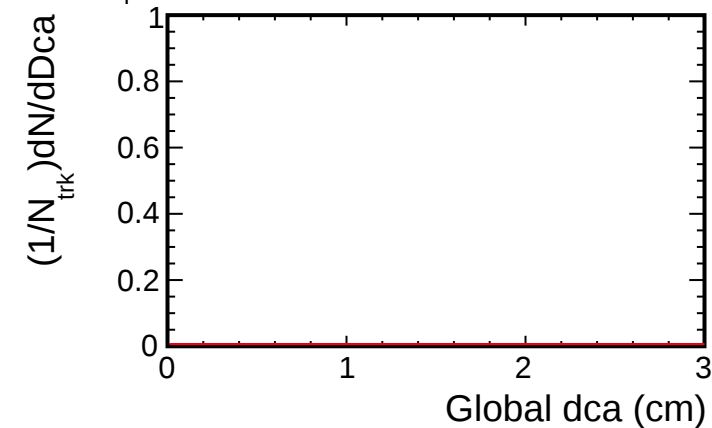
Mean/ σ of dE/dx vs momentum



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)

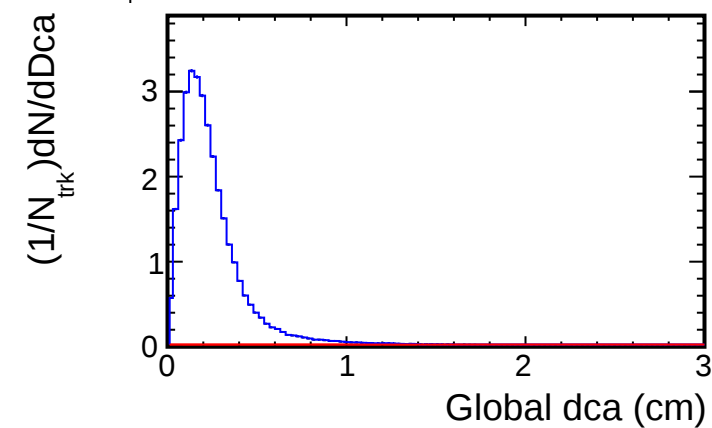
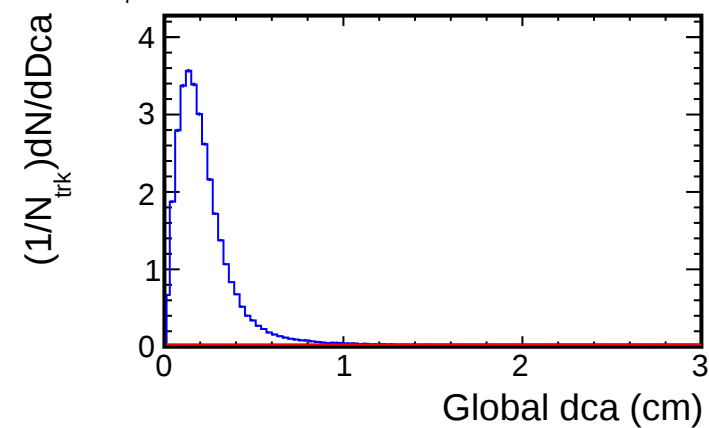
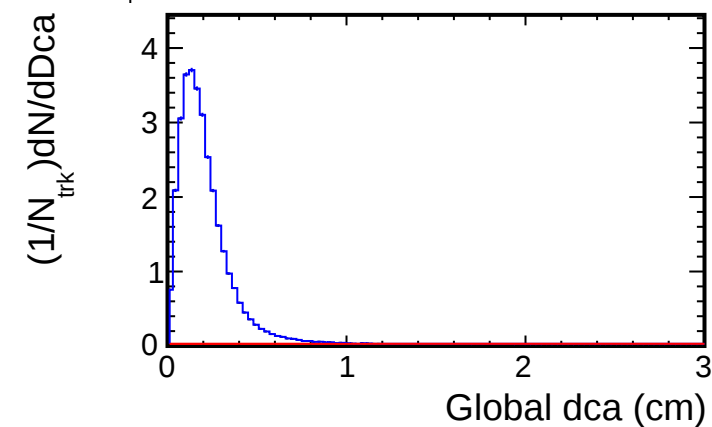
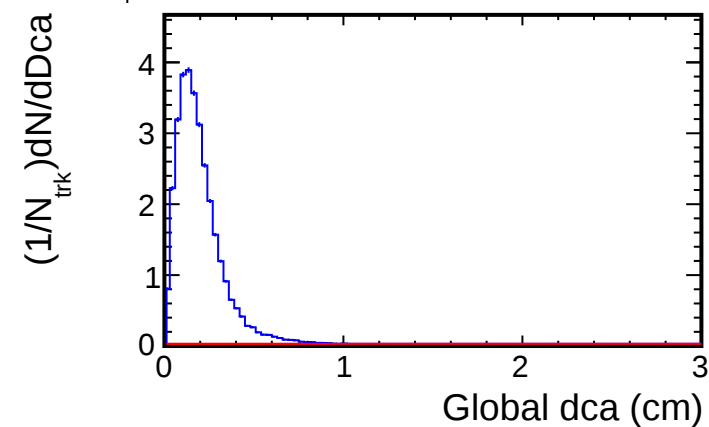
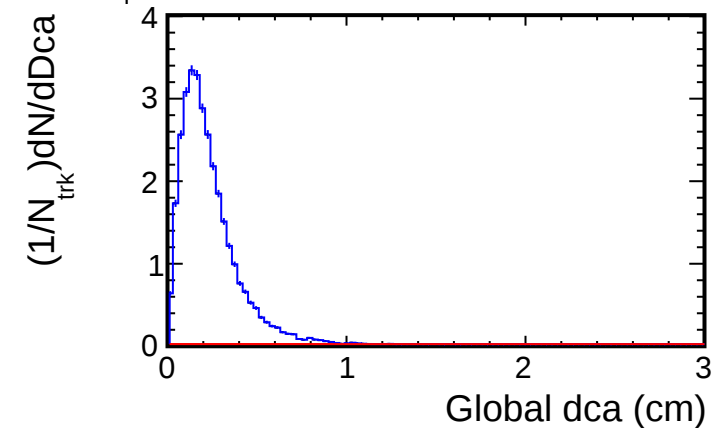
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices2, $0.1 < p_T < 0.5$ (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)

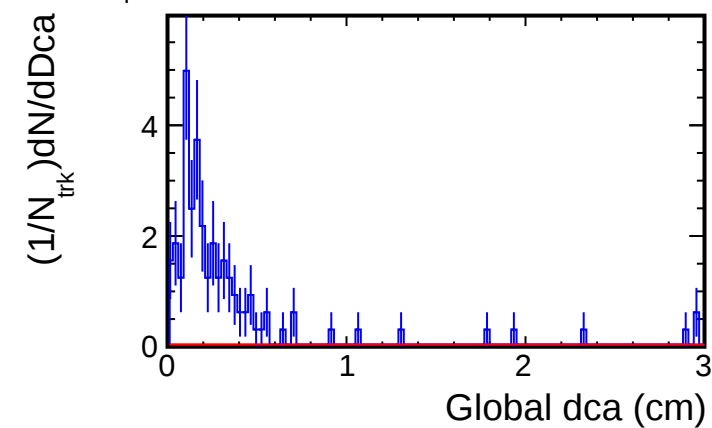
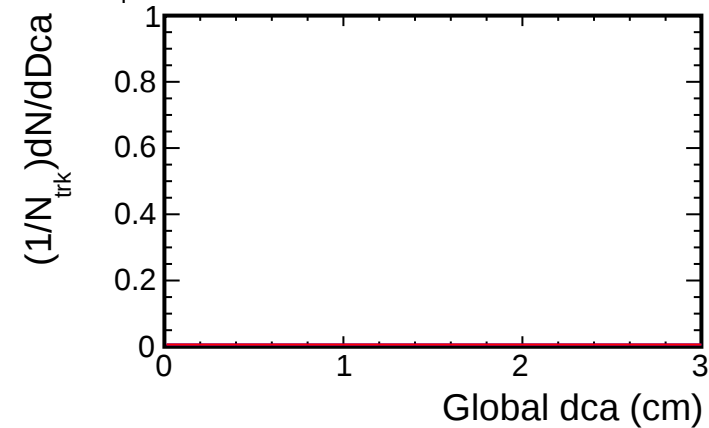
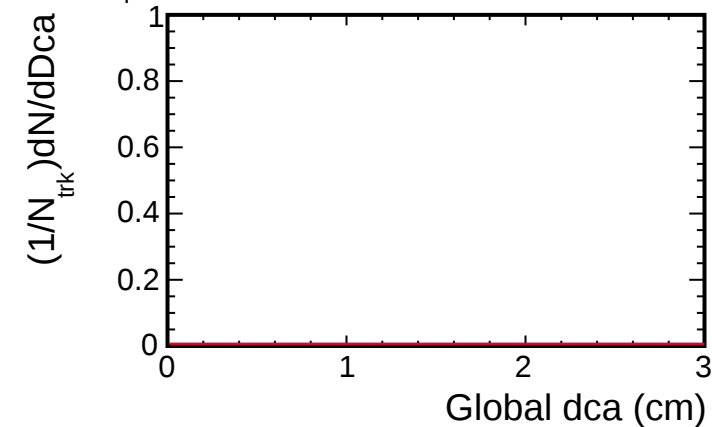
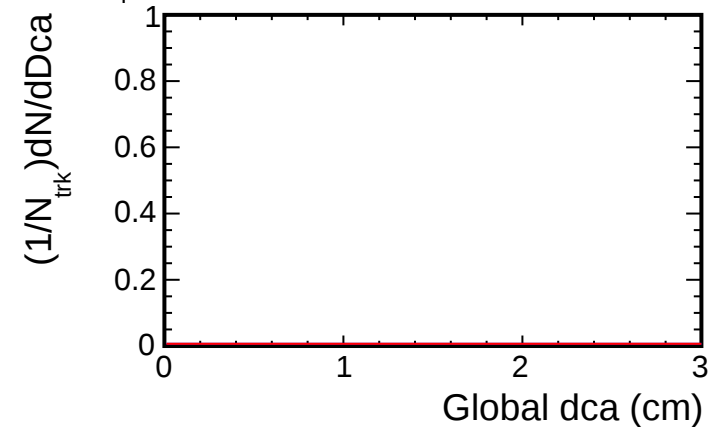
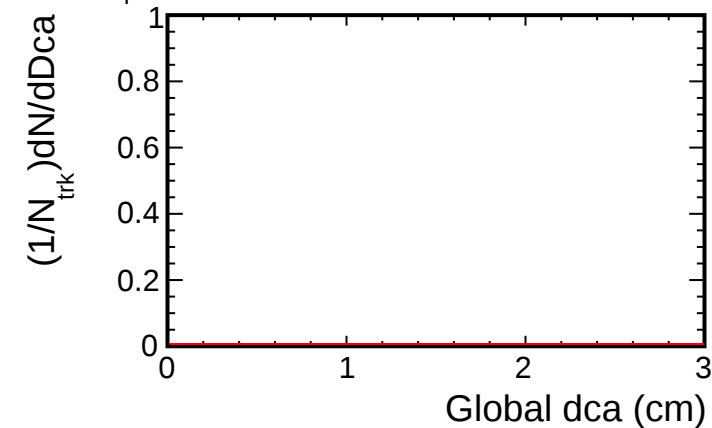
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

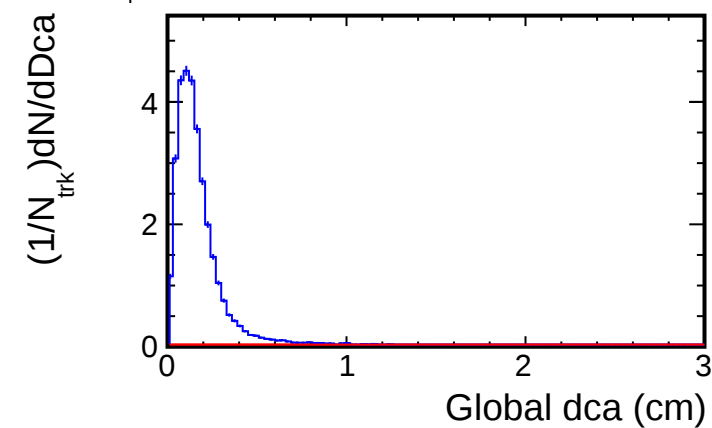
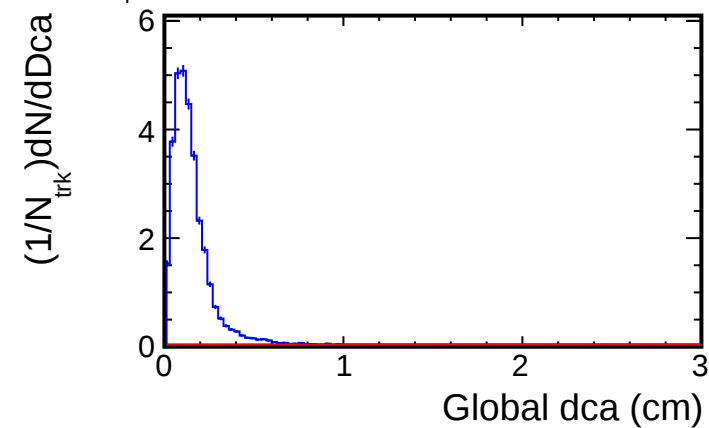
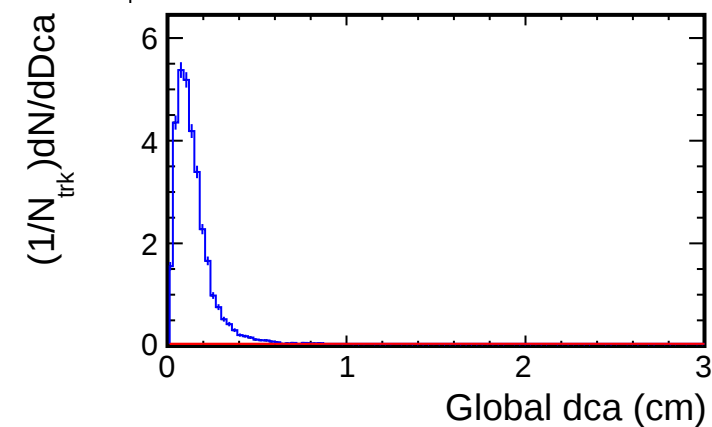
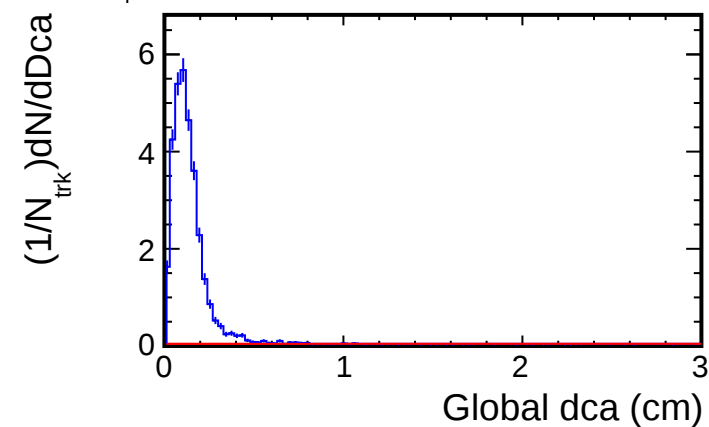
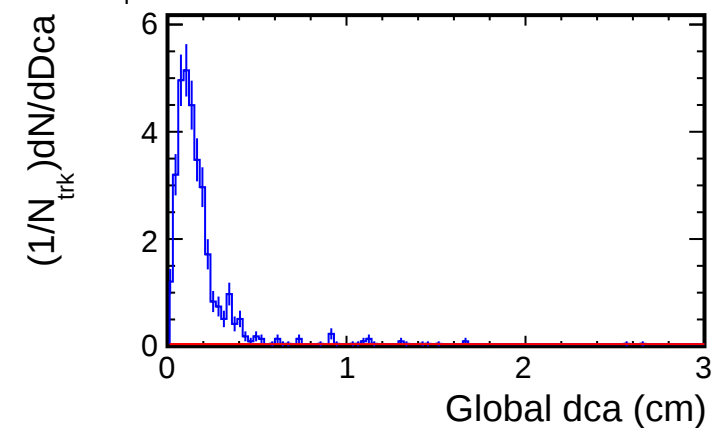
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices2, $0.5 < p_T < 1.0$ (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)

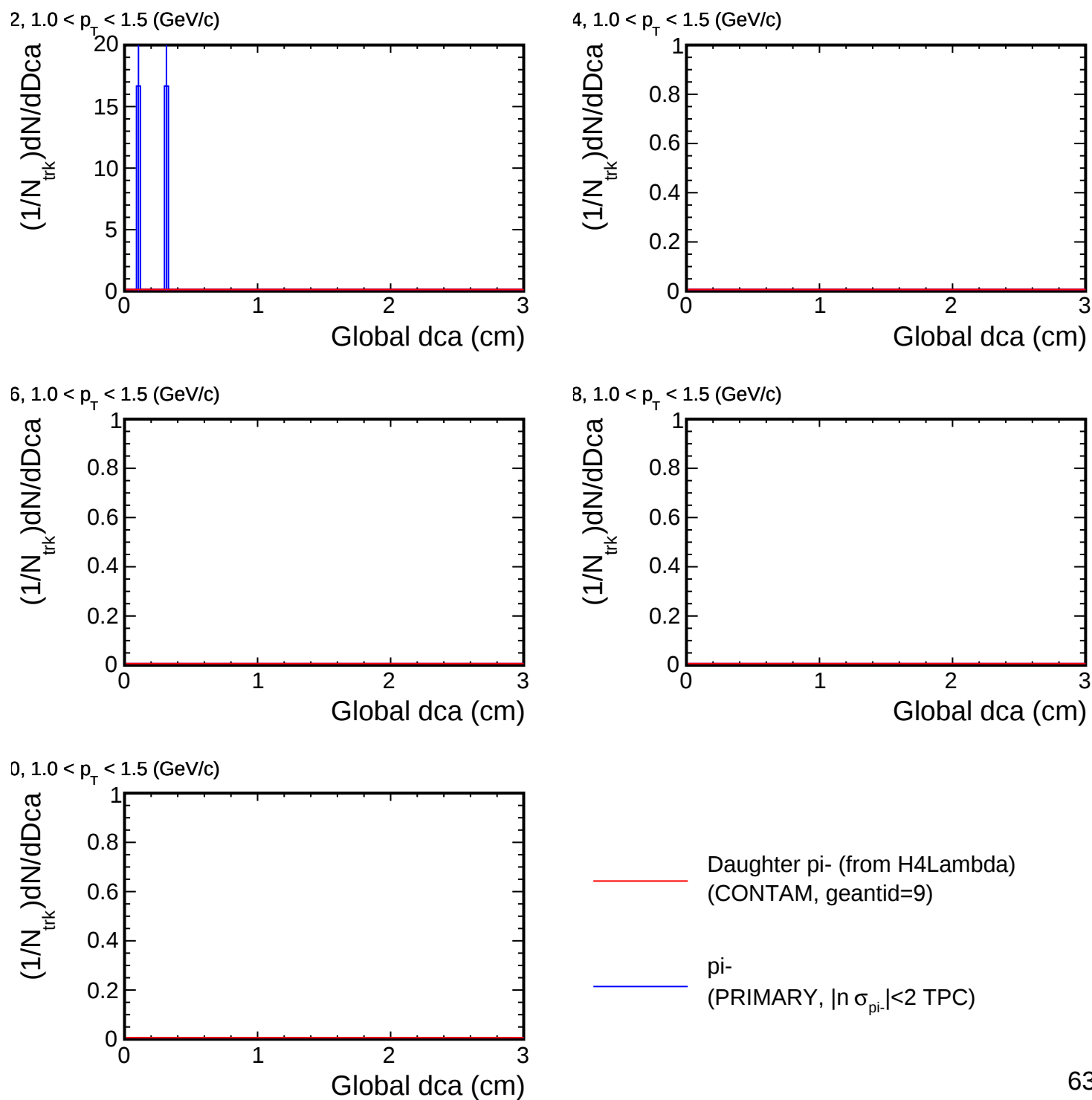
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

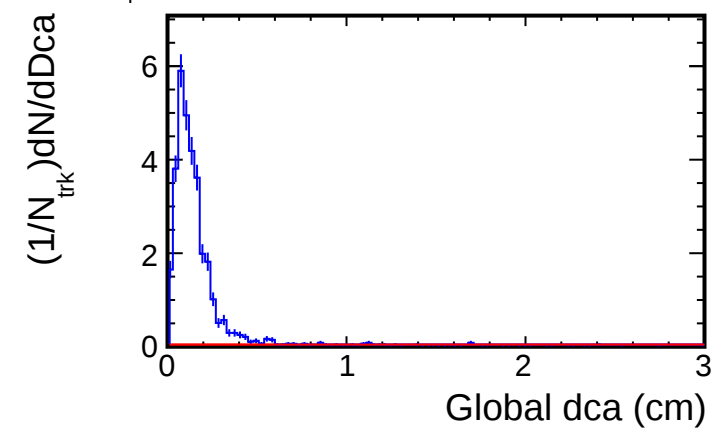
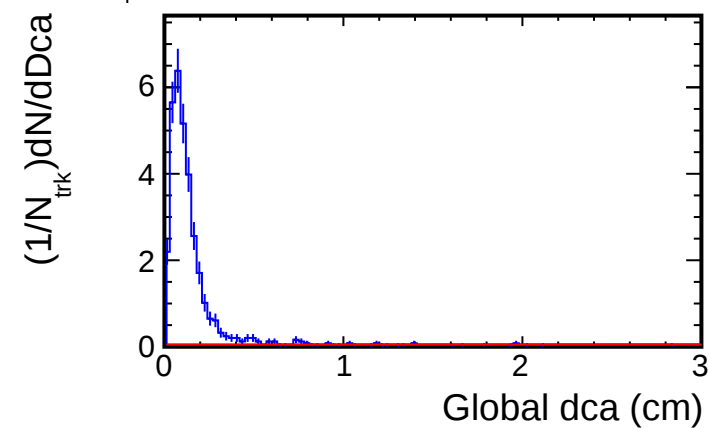
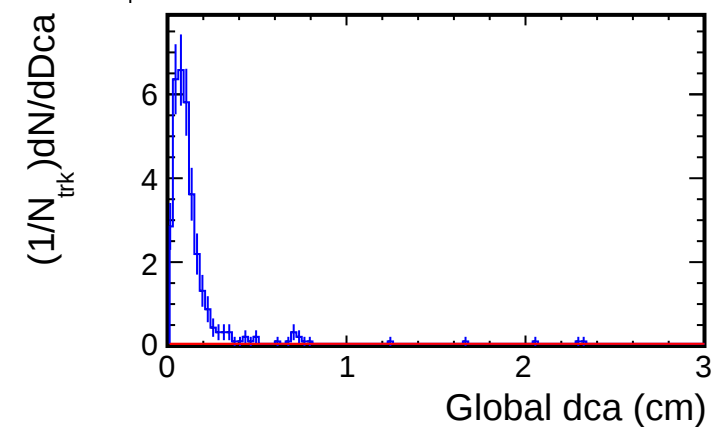
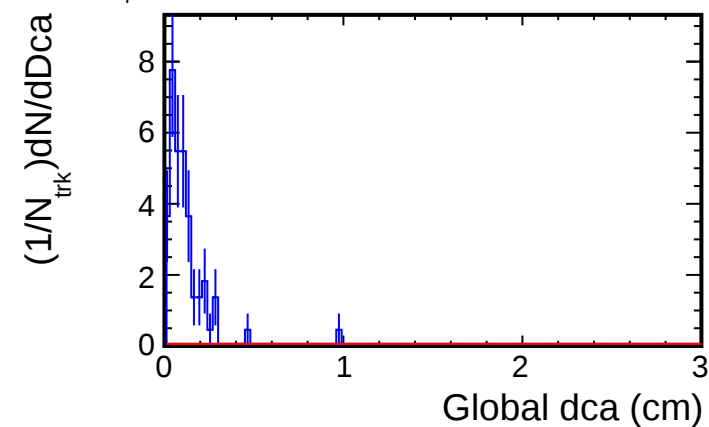
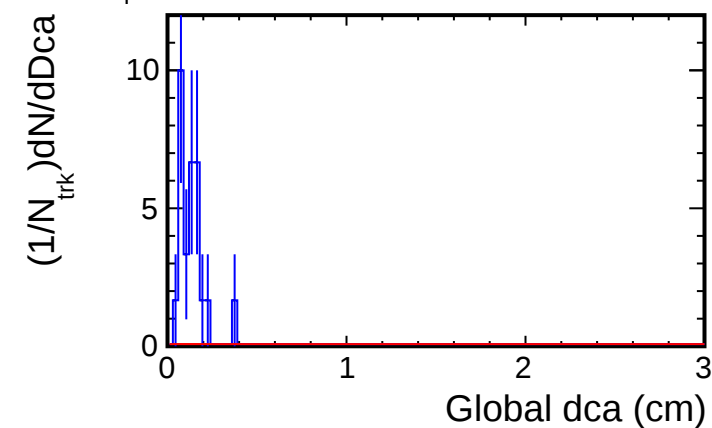
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

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 pi- (from H4Lambda)
(CONTAM, geantid=9)

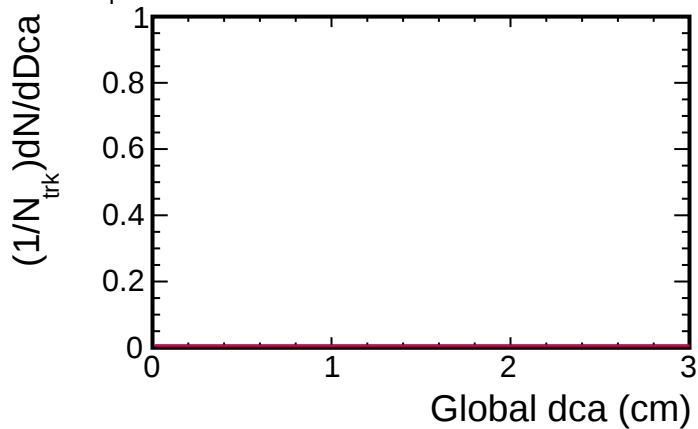
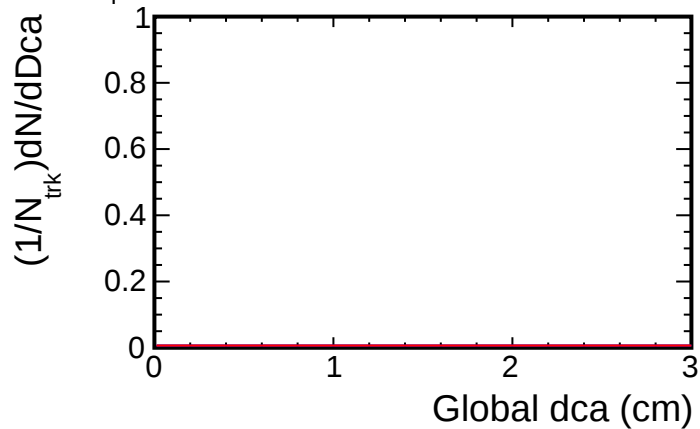
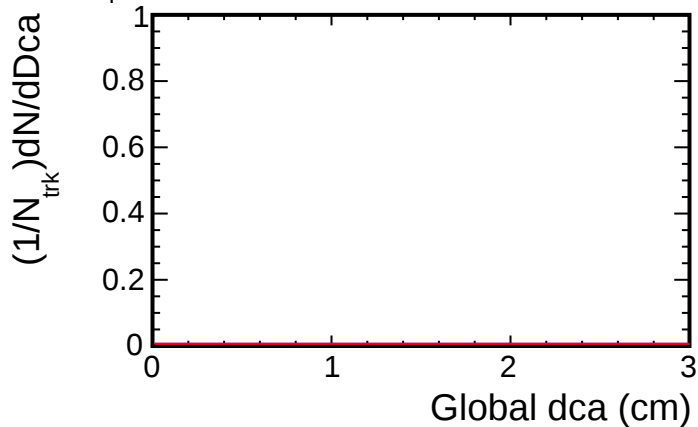
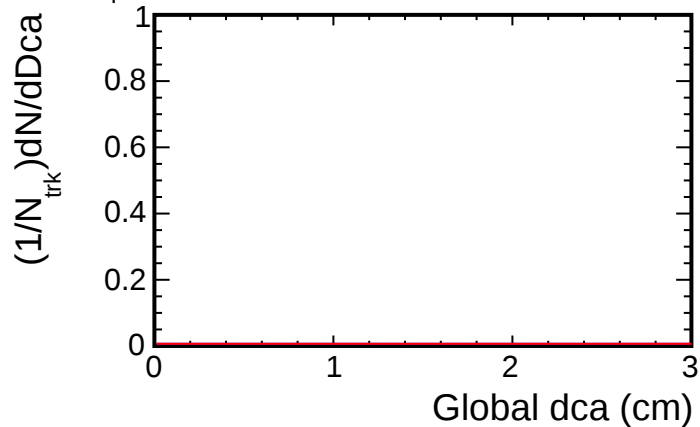
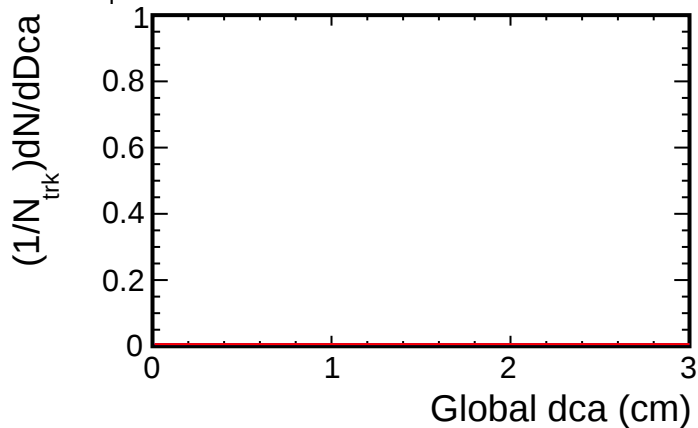
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

Dca distribution for (p_T , η) slices $1.8, 1.5 < p_T < 2.0$ (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)

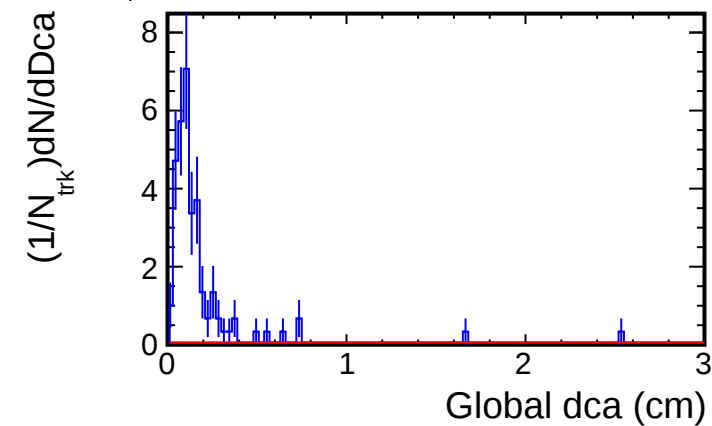
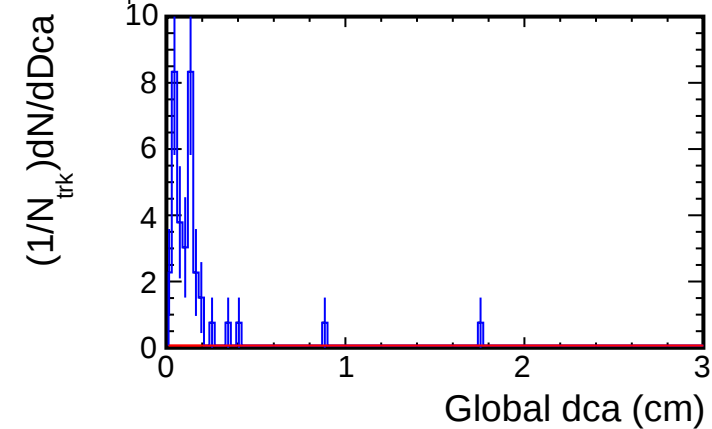
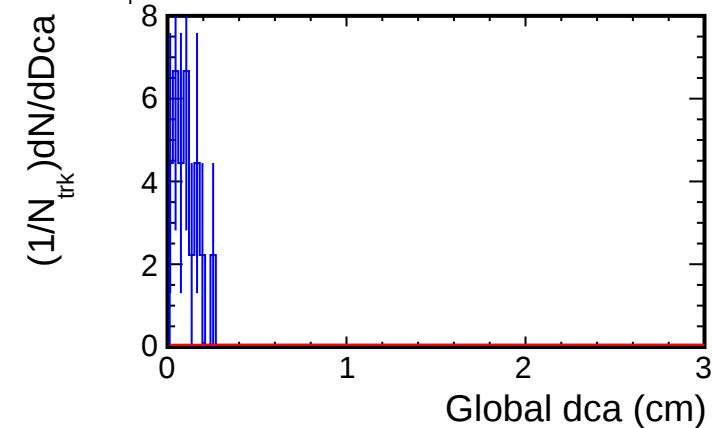
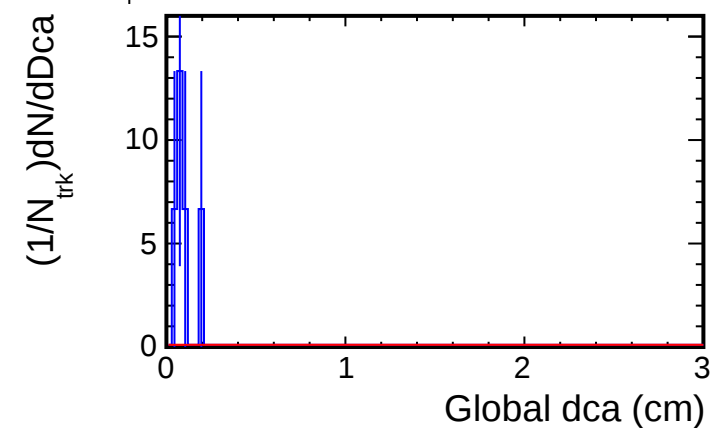
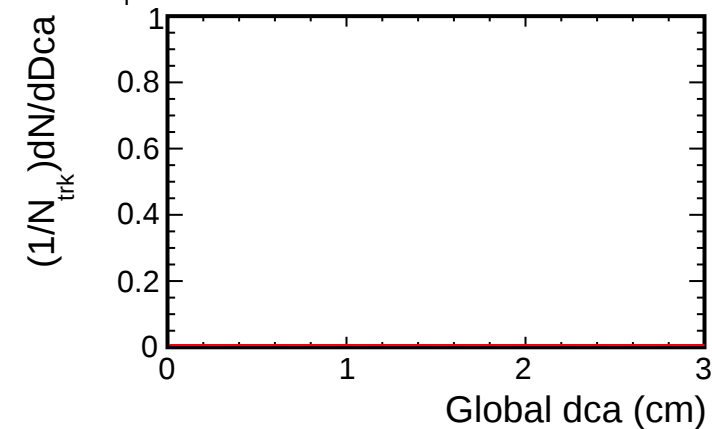
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices2, $1.5 < p_T < 2.0$ (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)

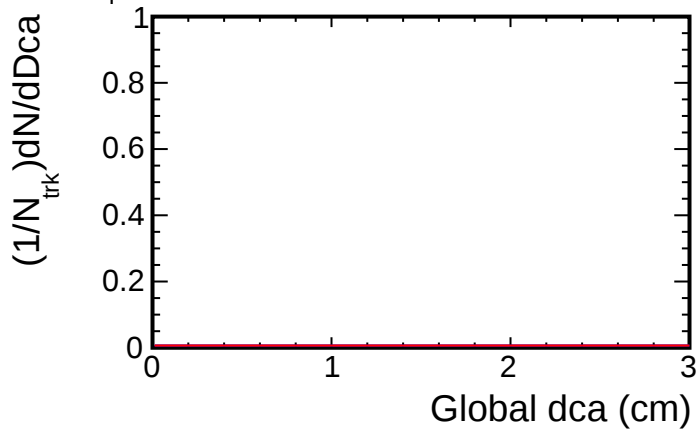
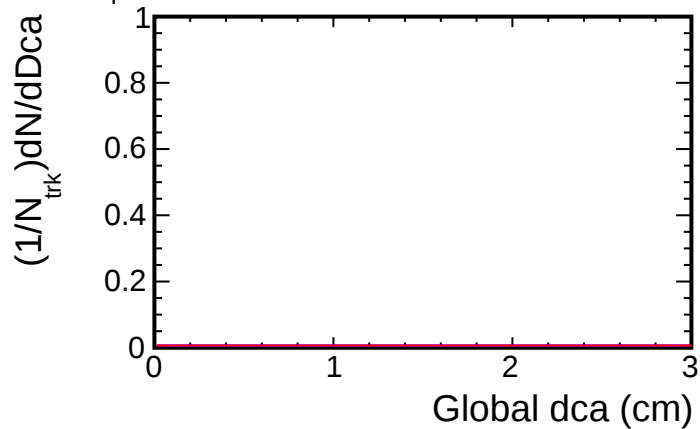
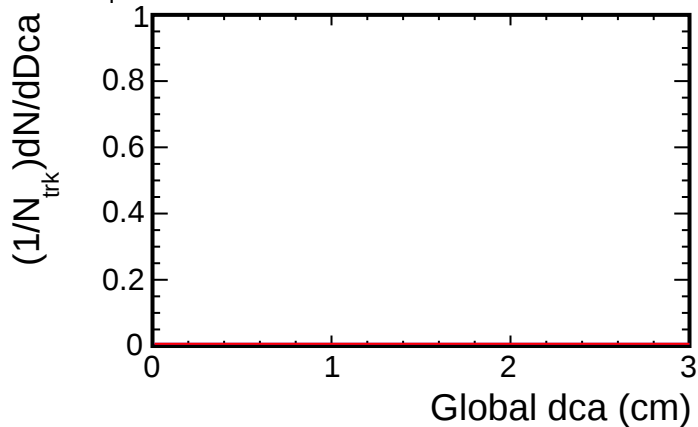
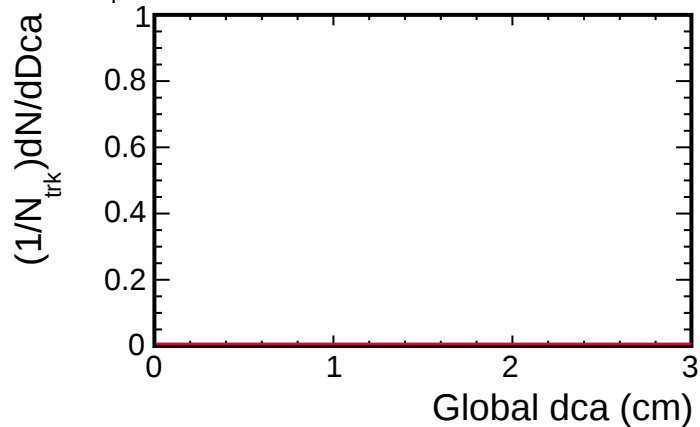
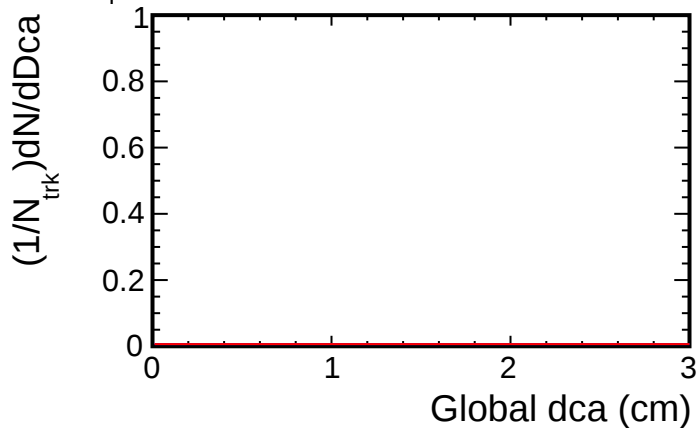
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

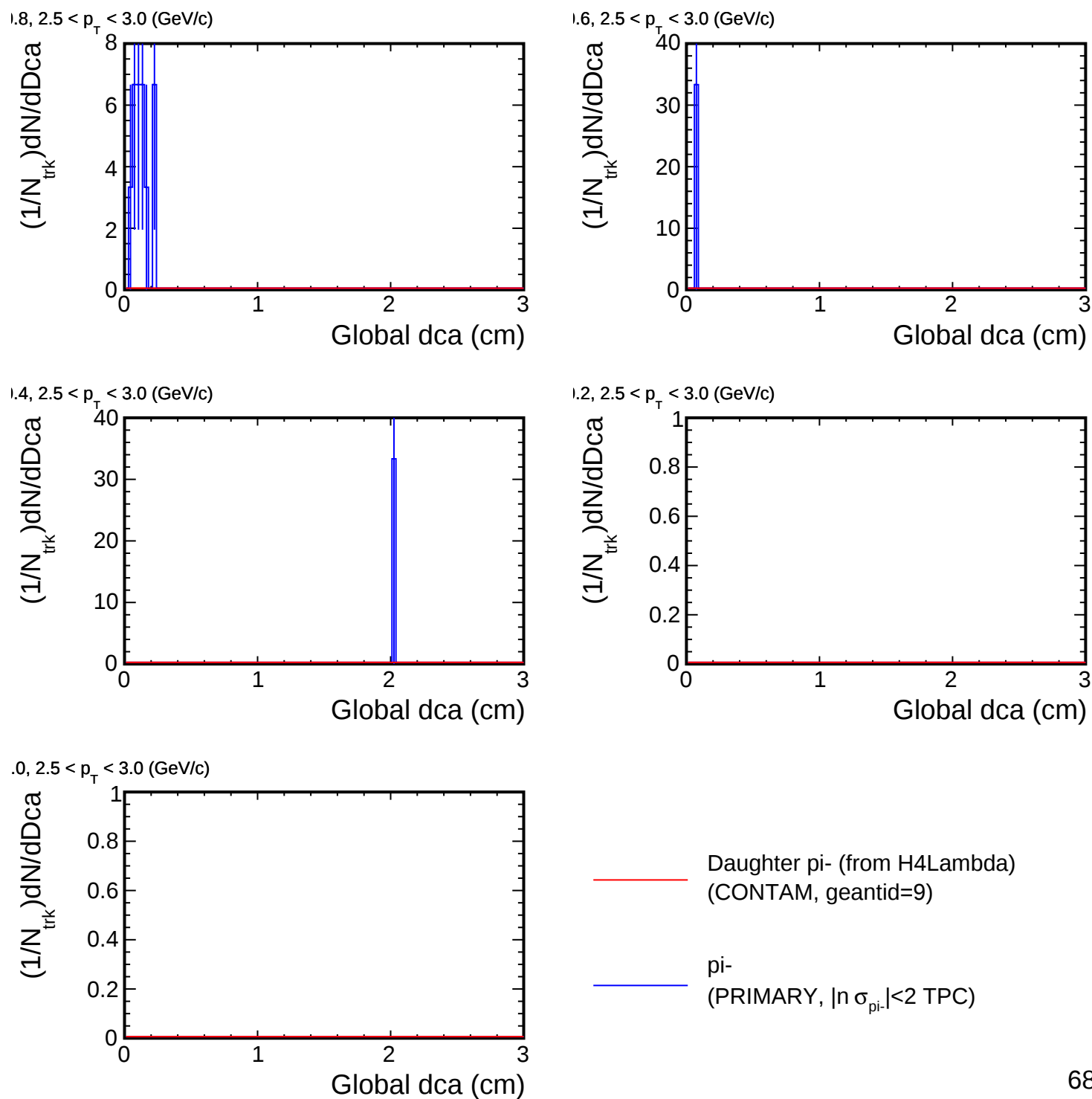
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

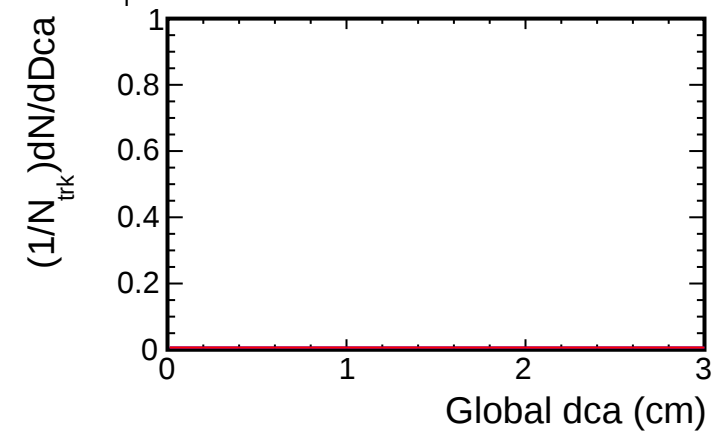
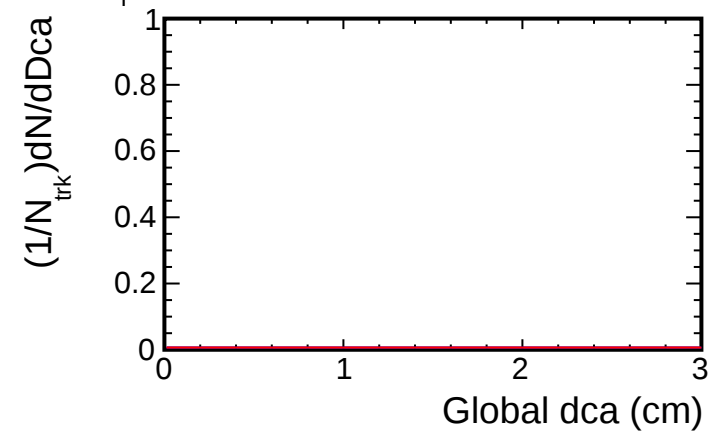
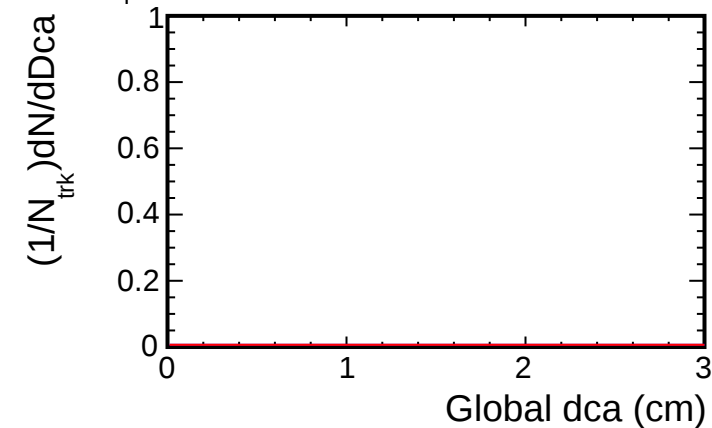
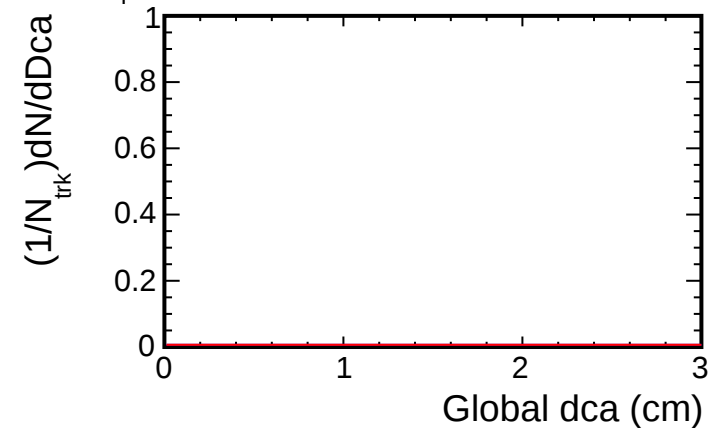
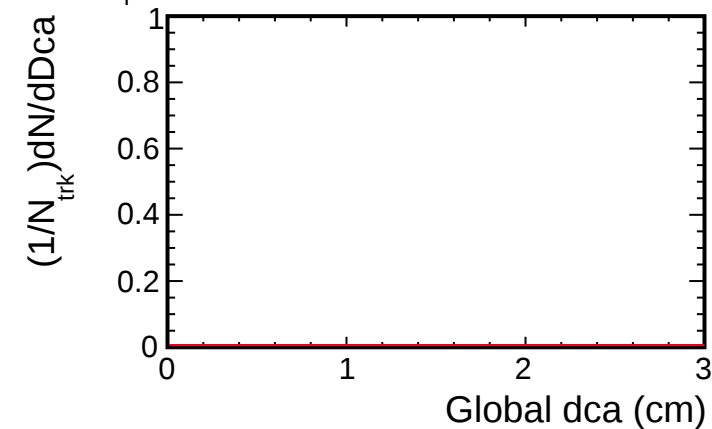
— pi-
(PRIMARY, $|\ln \sigma_{pi-}| < 2$ TPC)

Dca distribution for (p_T , η) slices2, $2.0 < p_T < 2.5$ (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 pi- (from H4Lambda)
(CONTAM, geantid=9)

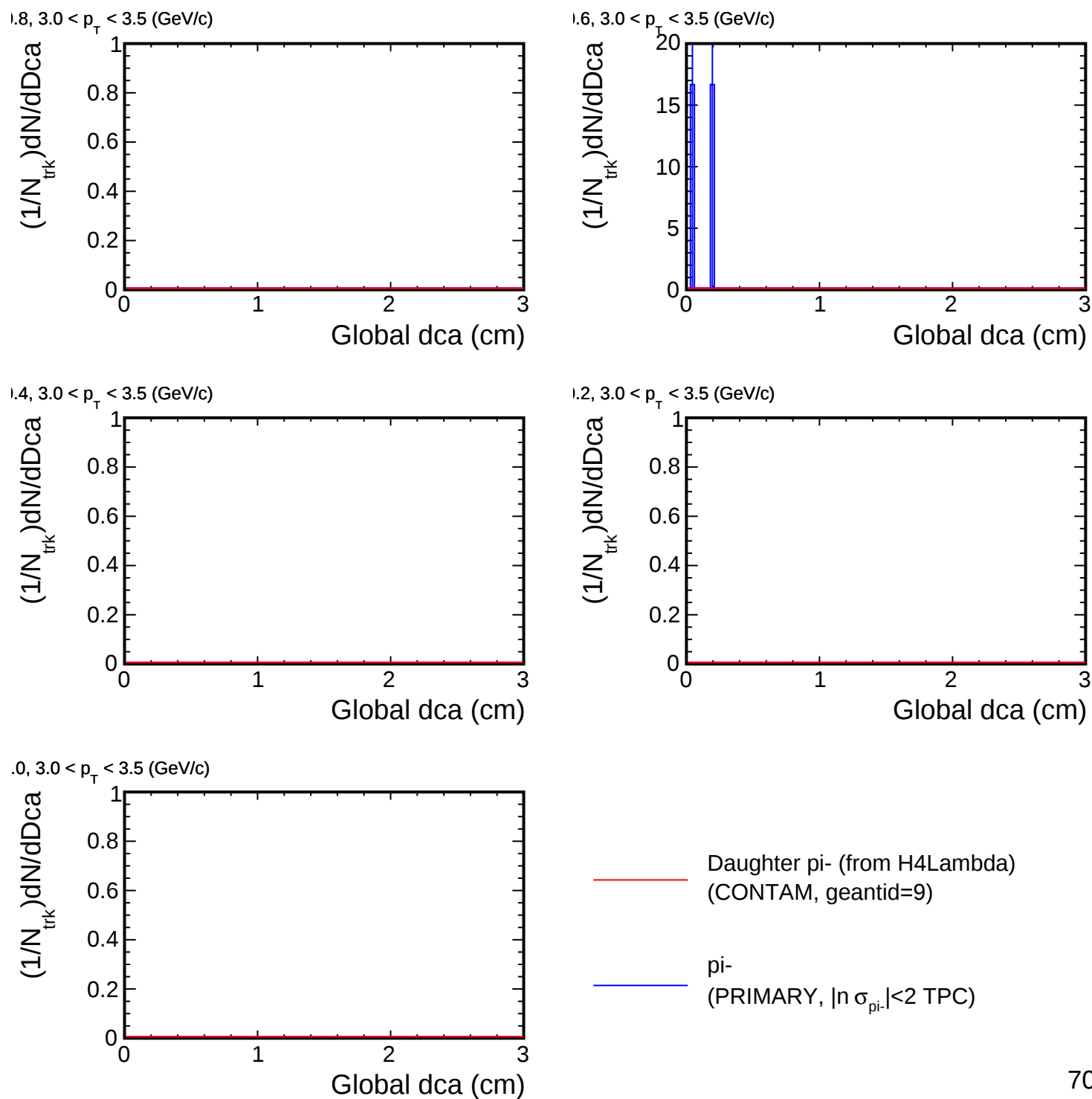
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

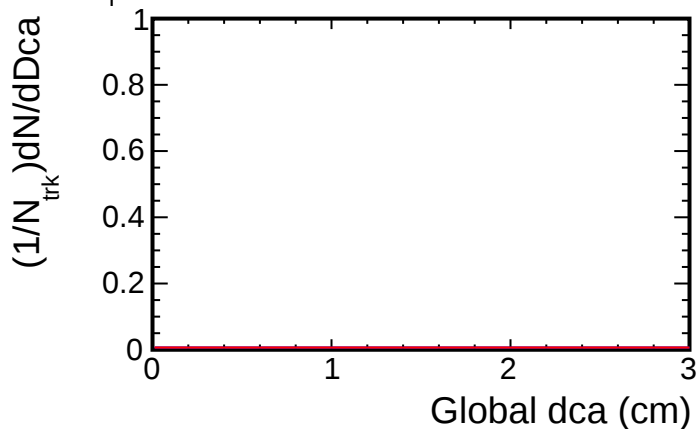
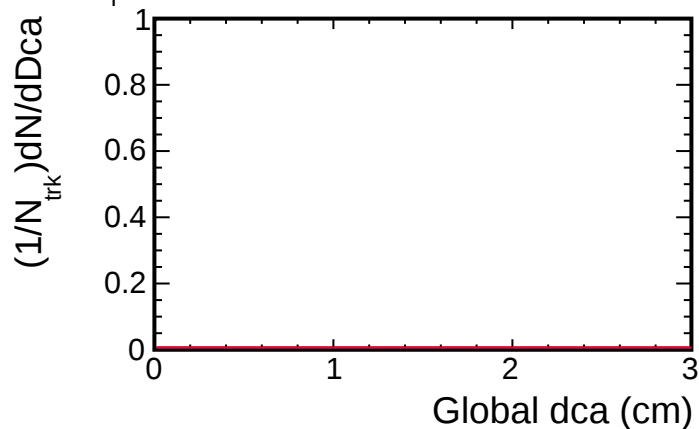
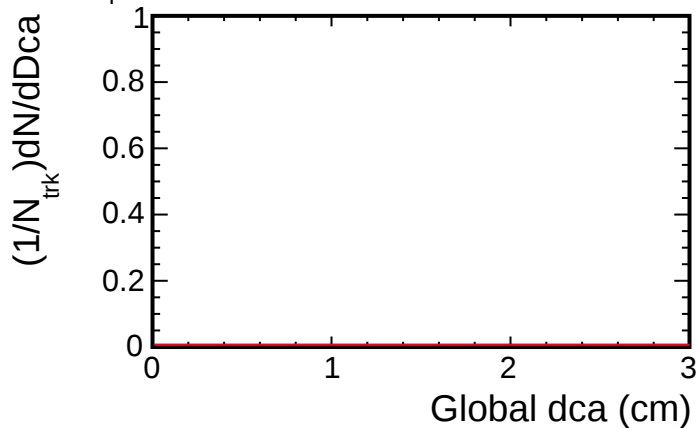
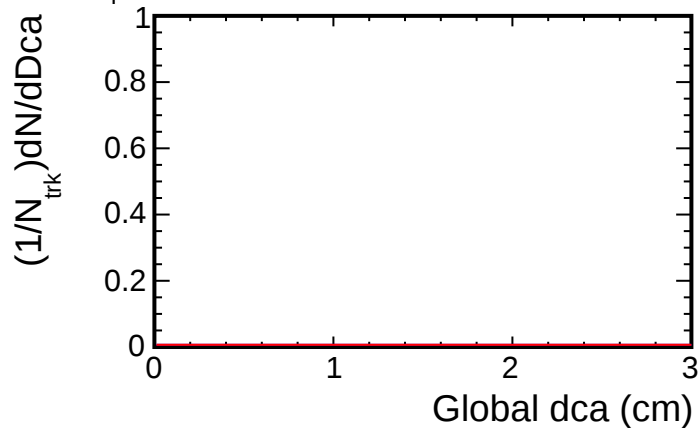
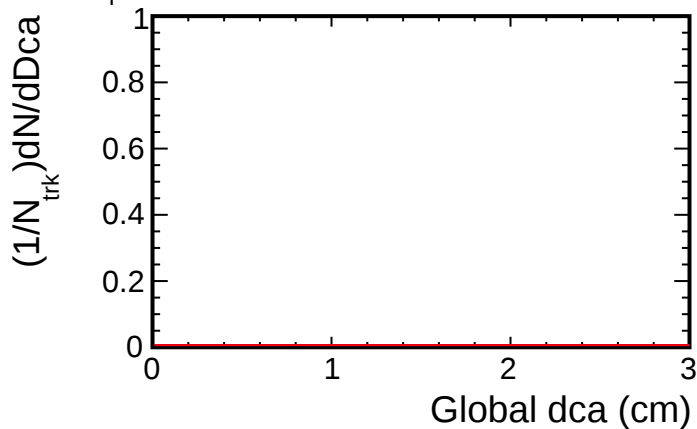
Dca distribution for (p_T , η) slices

Dca distribution for (p_T , η) slices2, $2.5 < p_T < 3.0$ (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 H4Lambda)
(CONTAM, geantid=9)

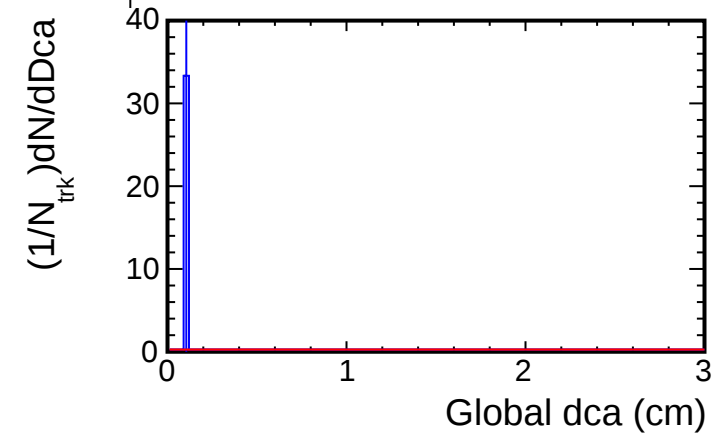
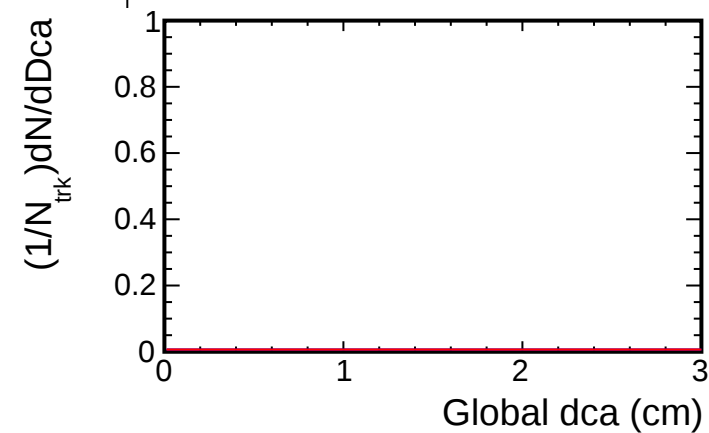
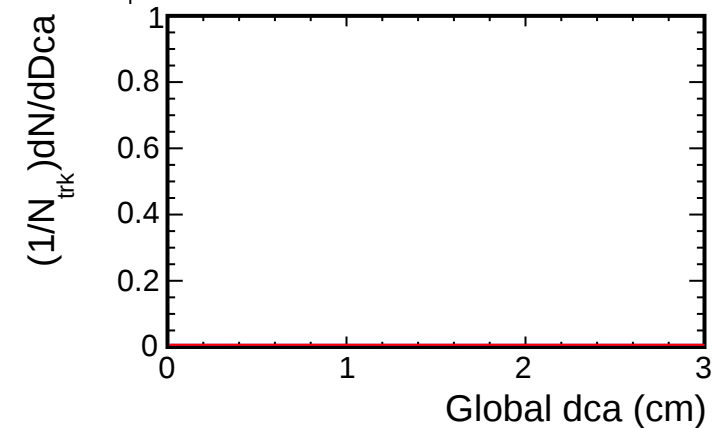
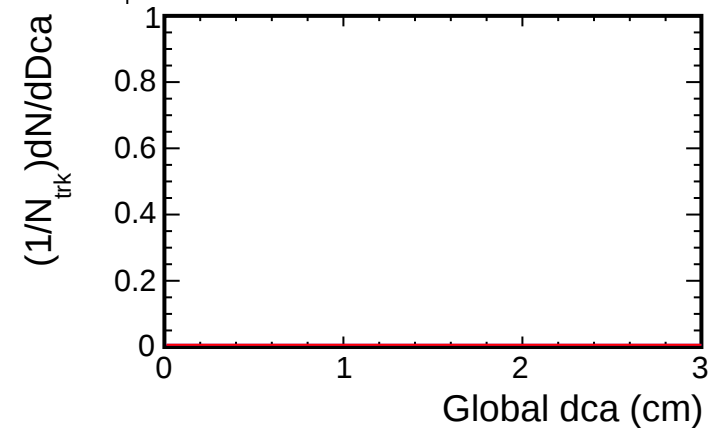
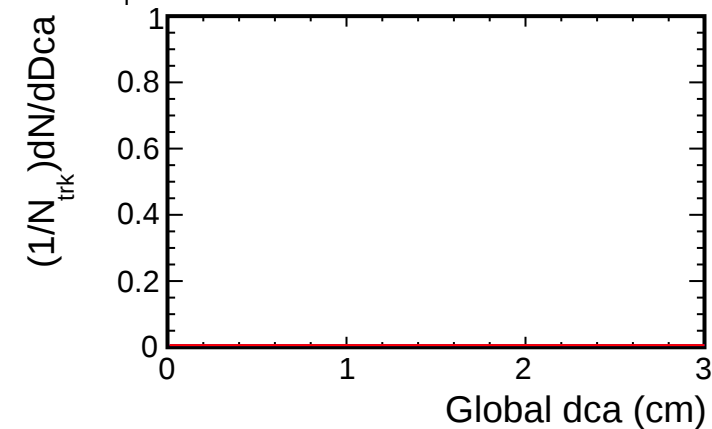
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Dca distribution for (p_T , η) slices

Dca distribution for (p_T , η) slices2, $3.0 < p_T < 3.5$ (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)

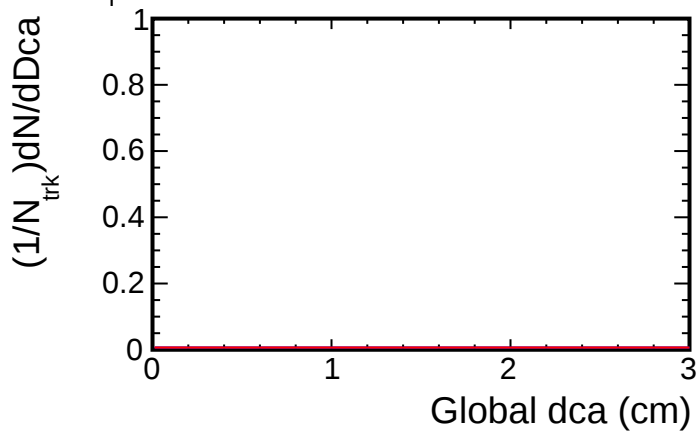
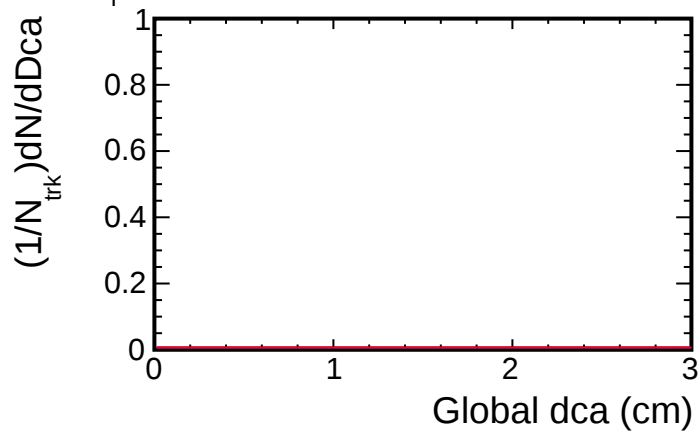
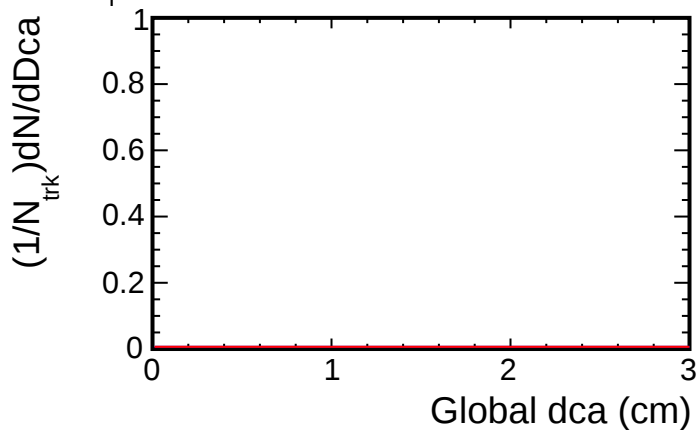
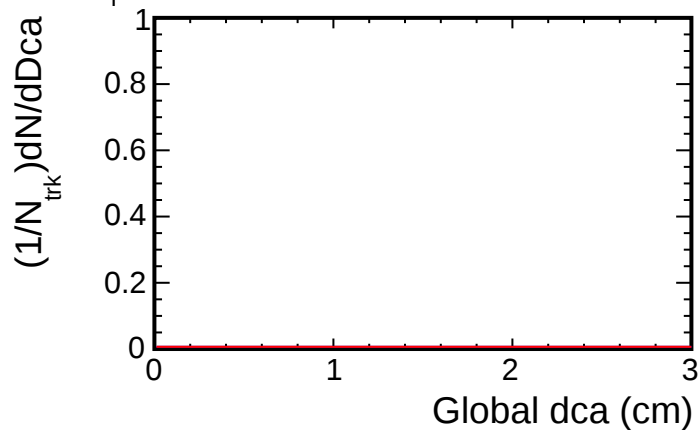
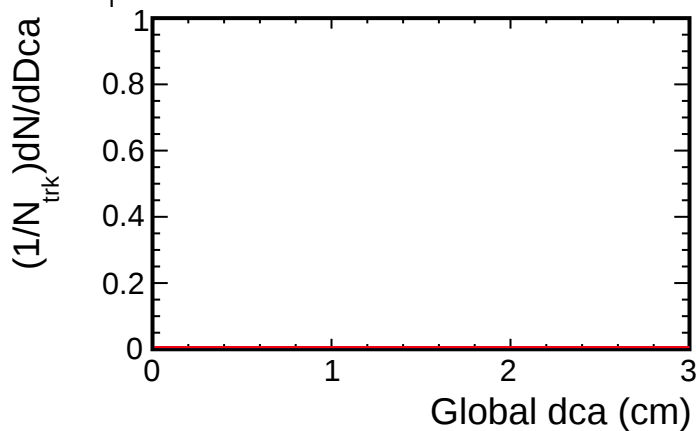
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

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)

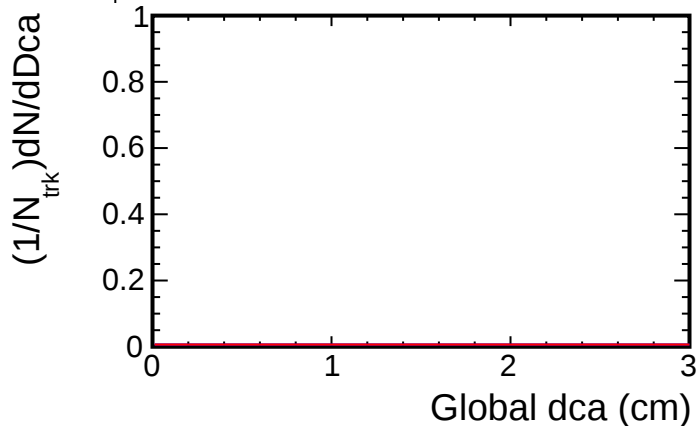
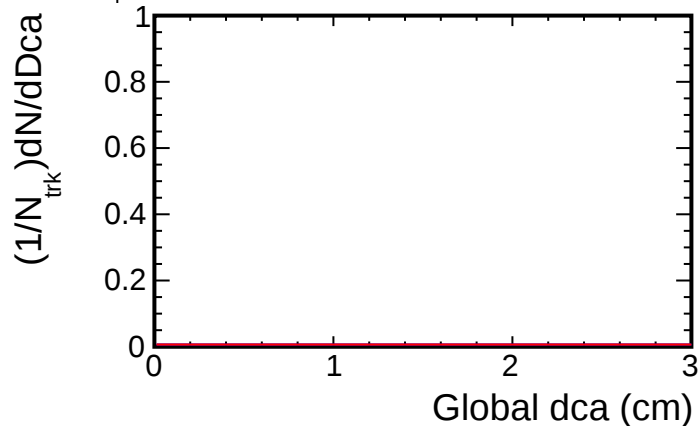
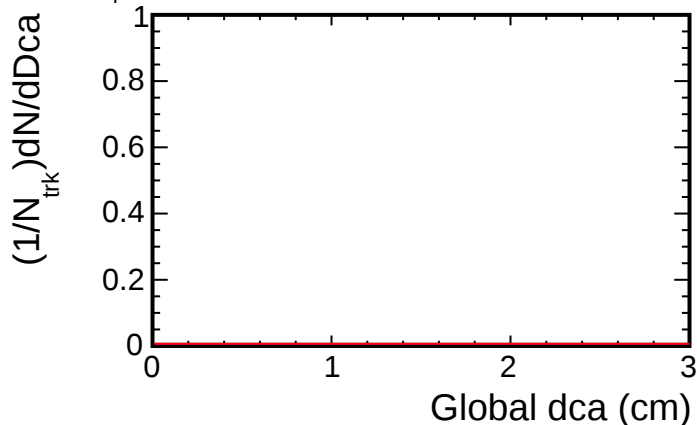
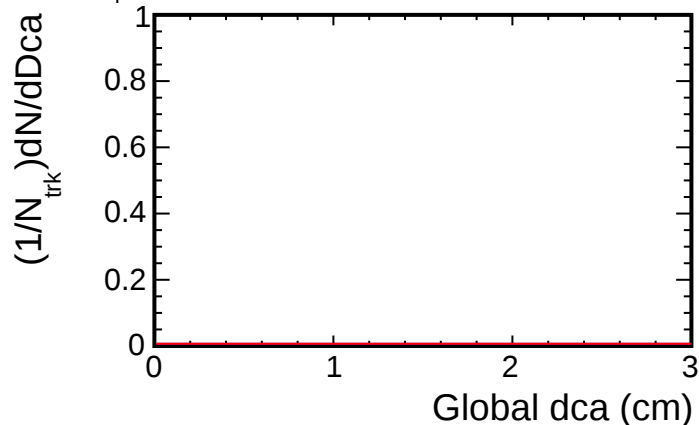
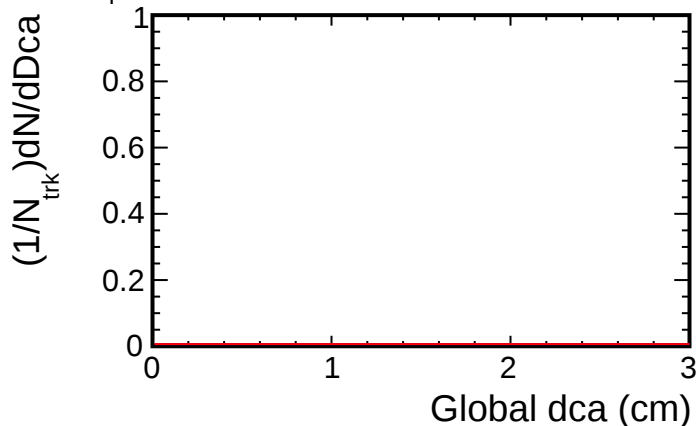
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices2, $3.5 < p_T < 4.0$ (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)

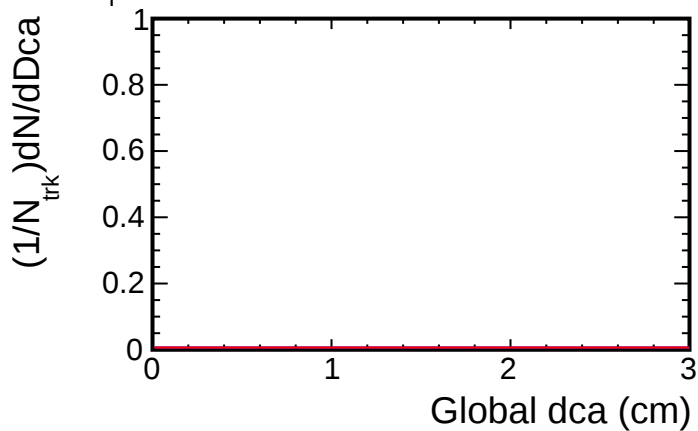
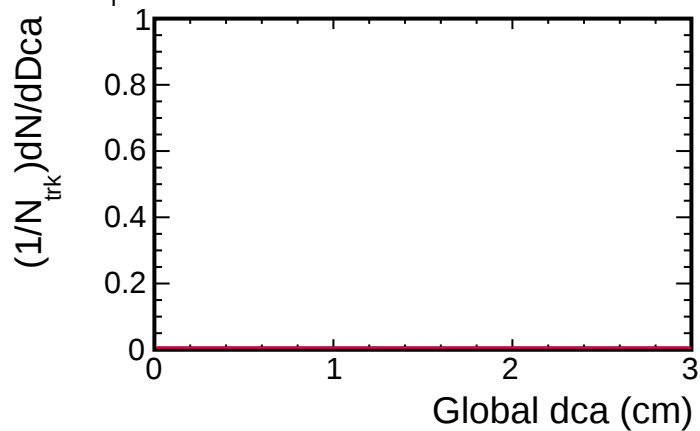
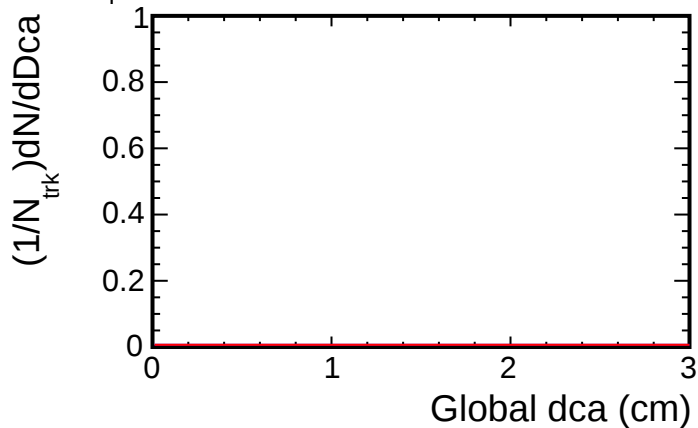
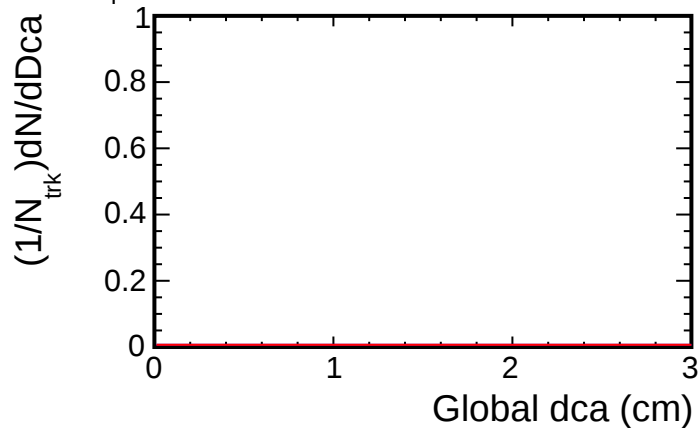
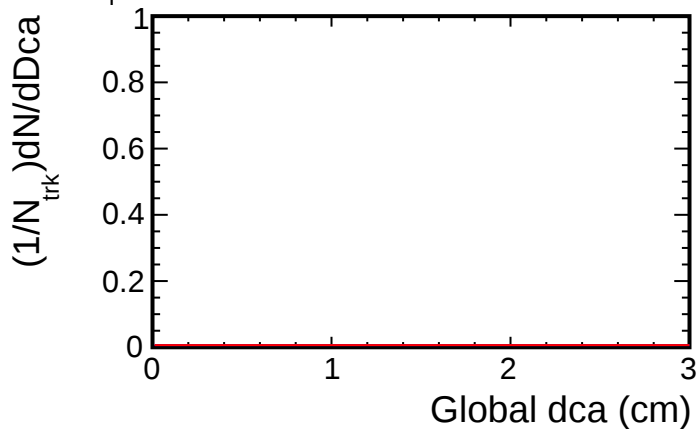
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices $1.8, 4.0 < p_T < 4.5$ (GeV/c) $1.6, 4.0 < p_T < 4.5$ (GeV/c) $1.4, 4.0 < p_T < 4.5$ (GeV/c) $1.2, 4.0 < p_T < 4.5$ (GeV/c) $1.0, 4.0 < p_T < 4.5$ (GeV/c)

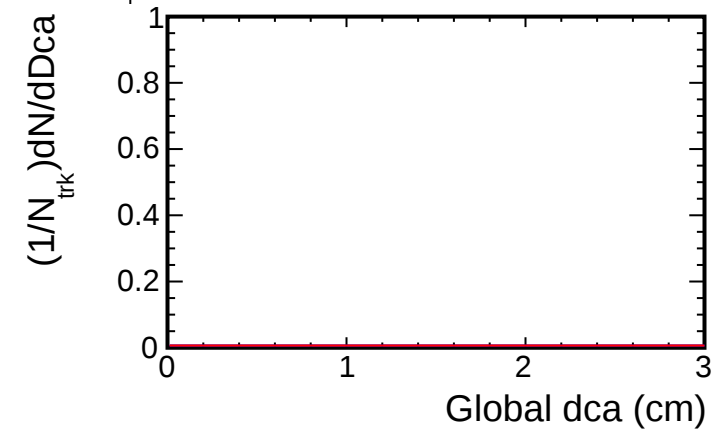
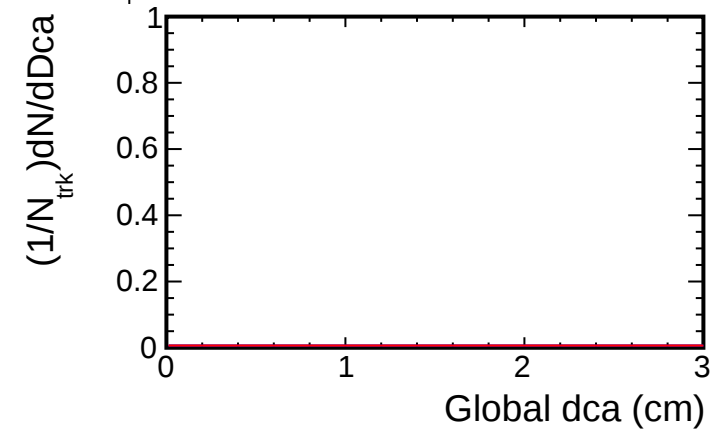
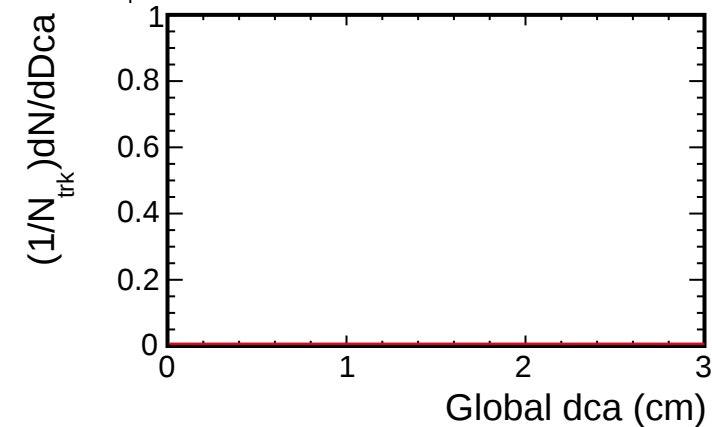
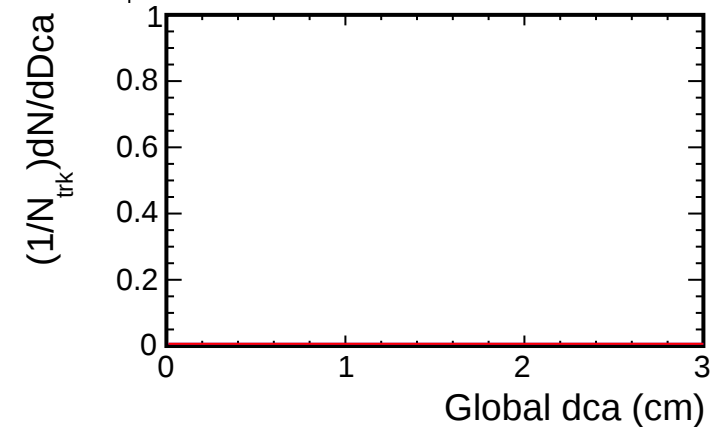
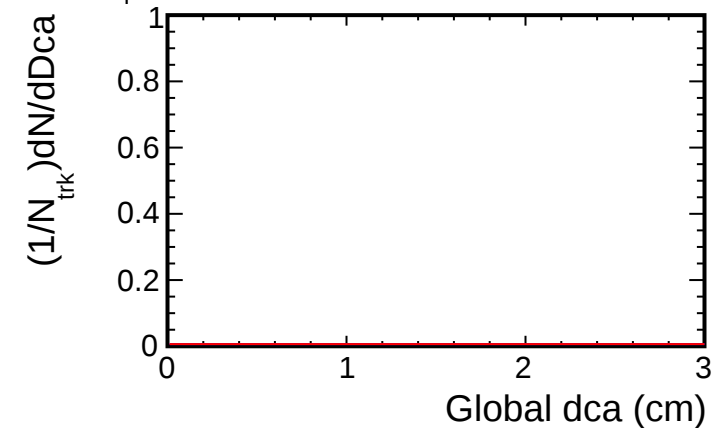
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices2, $4.0 < p_T < 4.5$ (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)

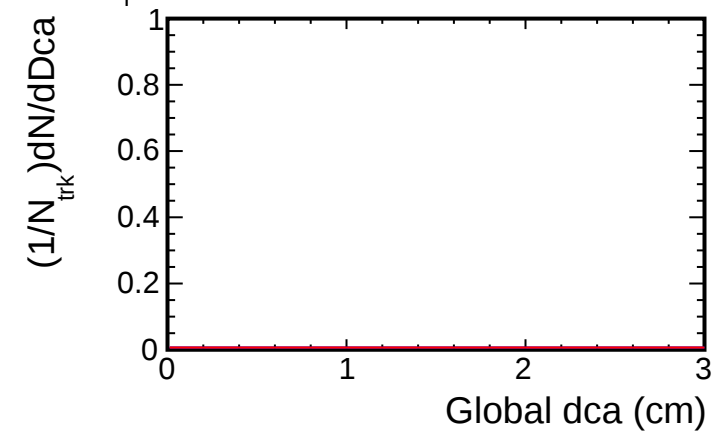
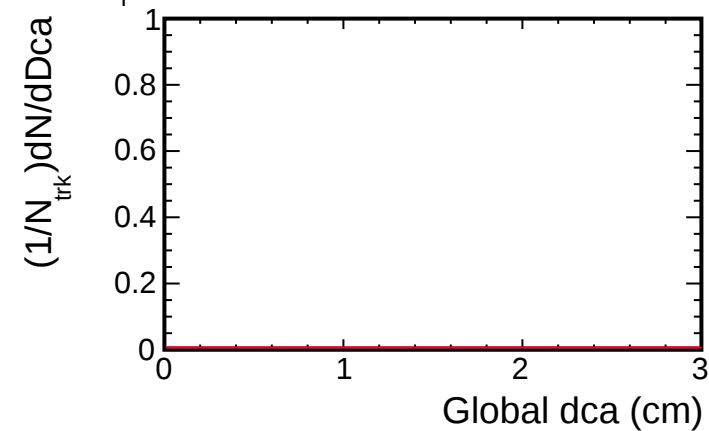
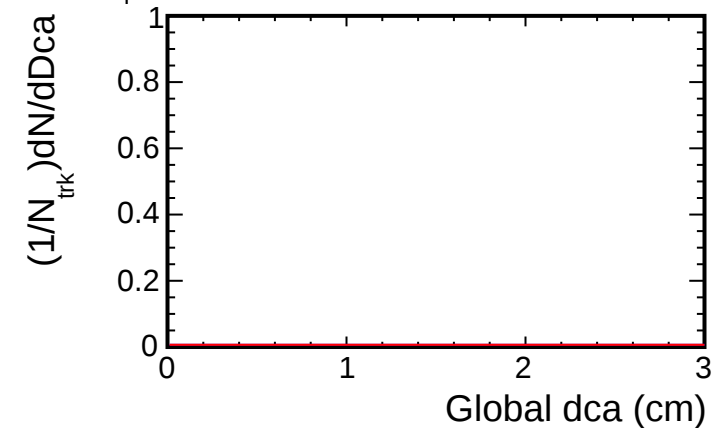
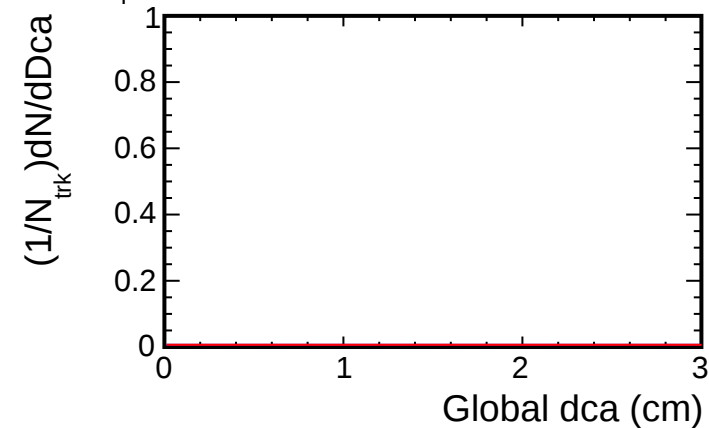
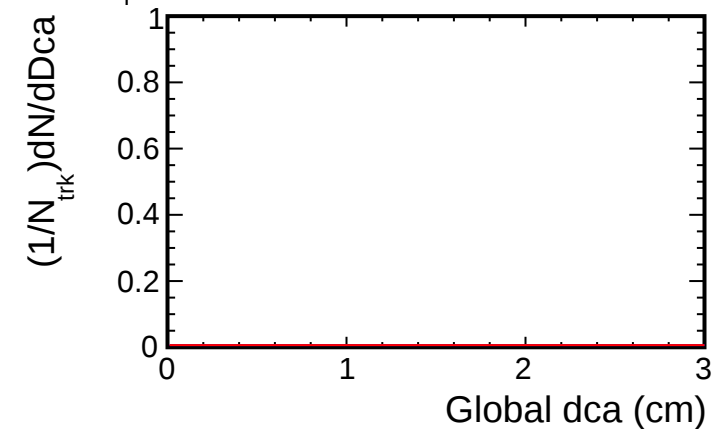
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca 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)

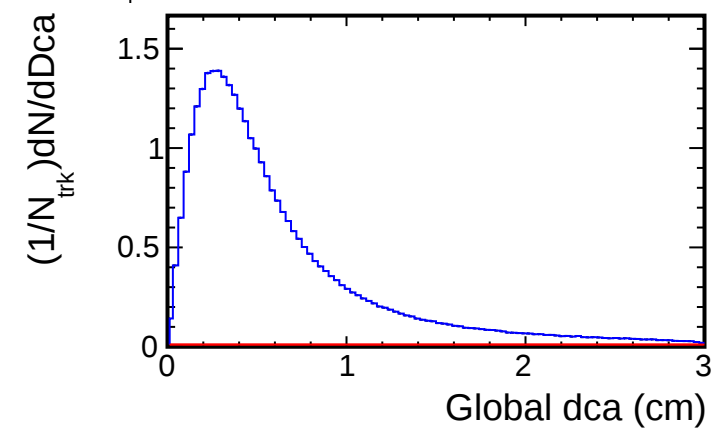
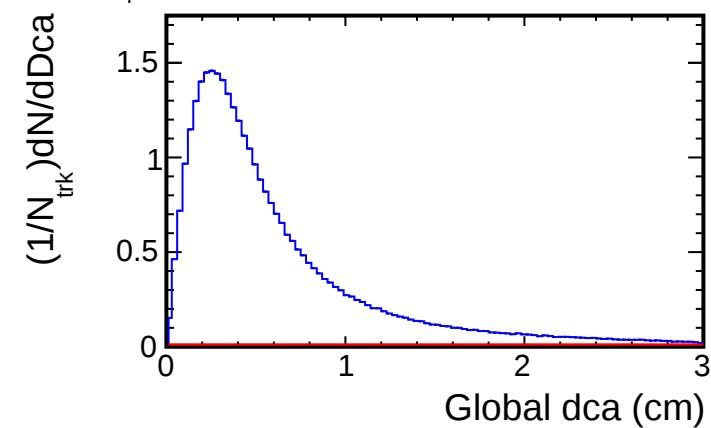
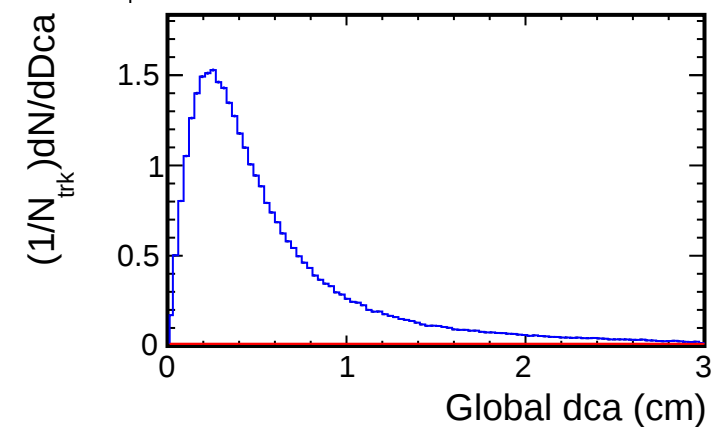
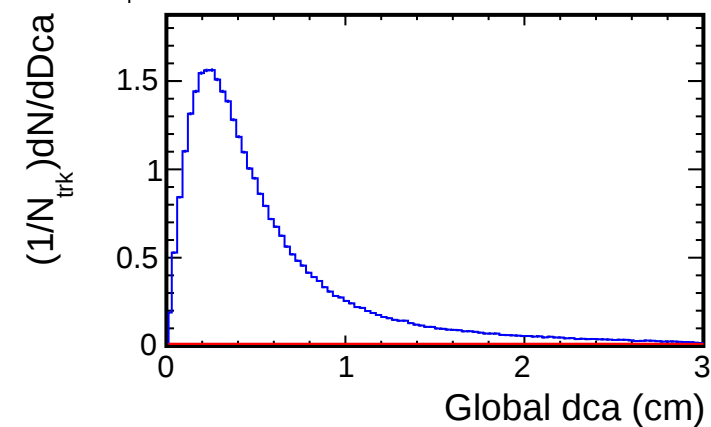
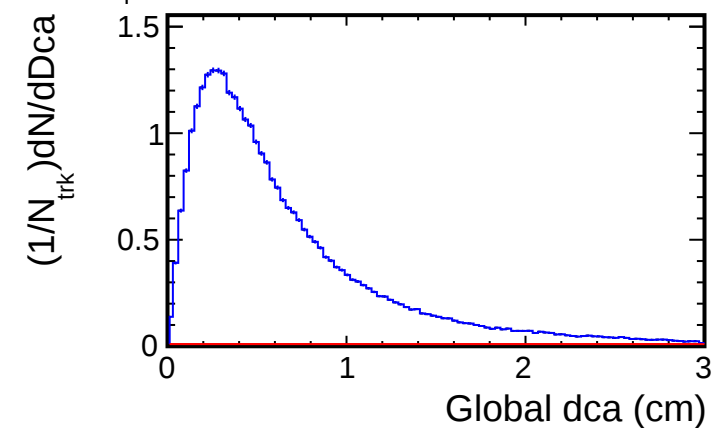
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices2, $4.5 < p_T < 5.0$ (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)

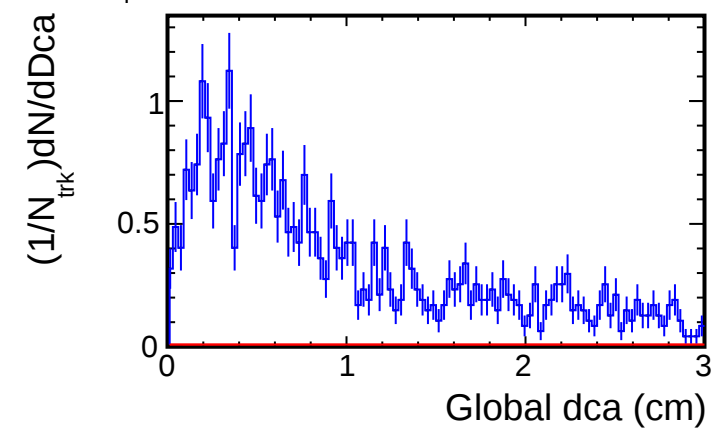
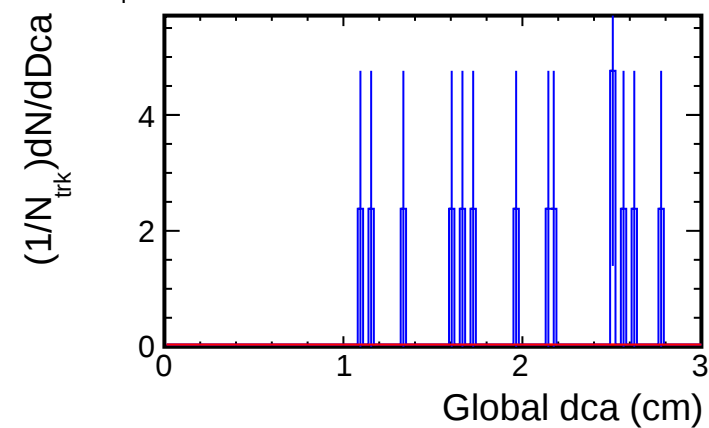
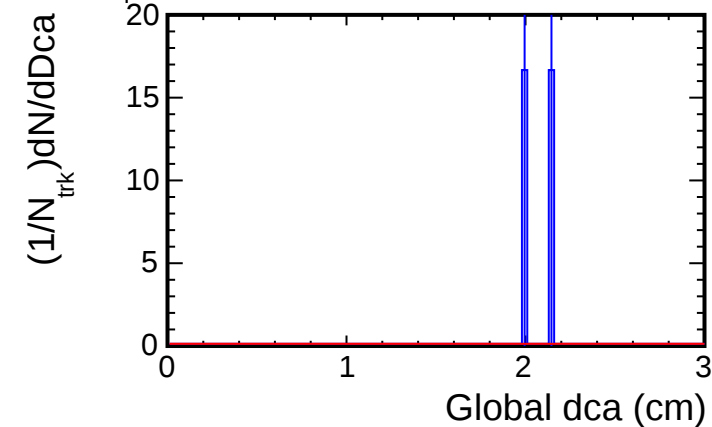
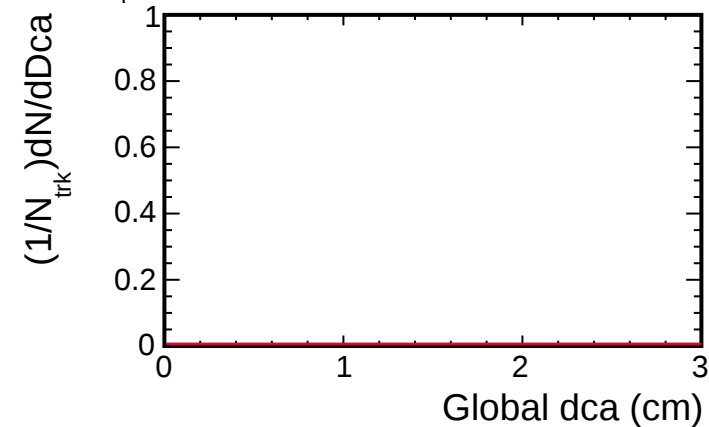
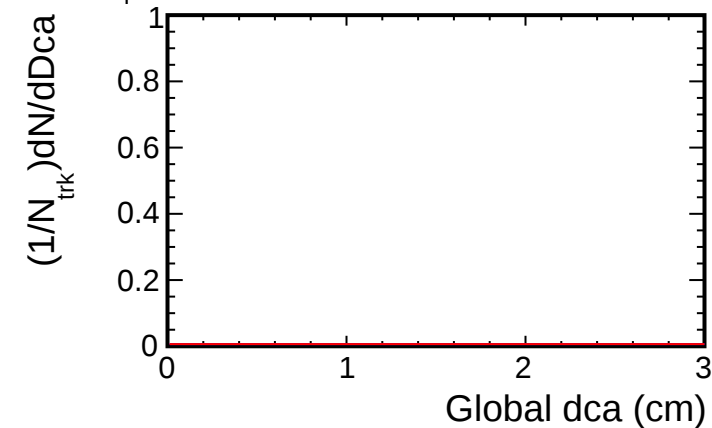
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

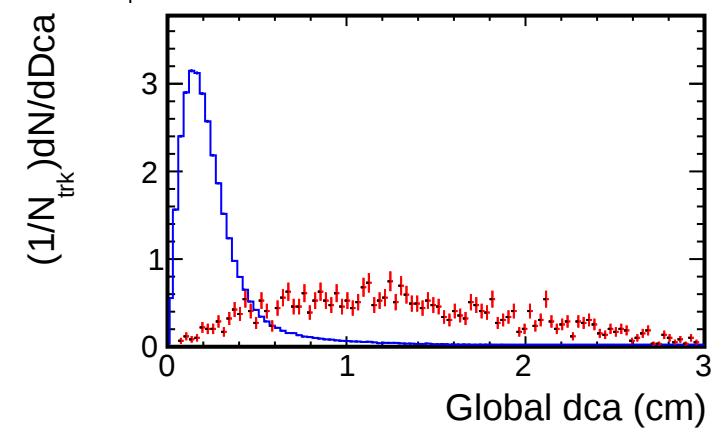
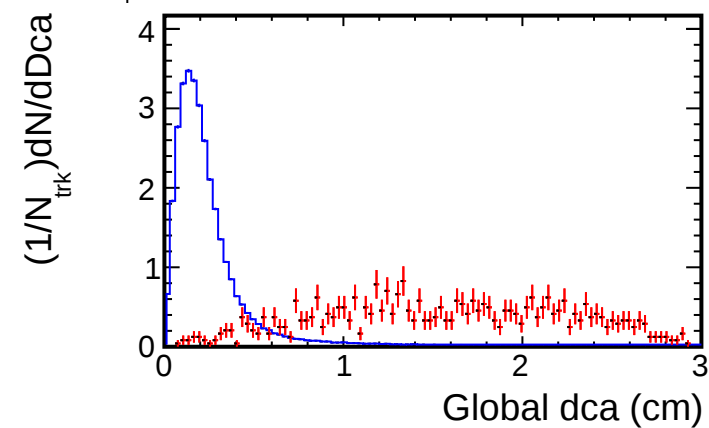
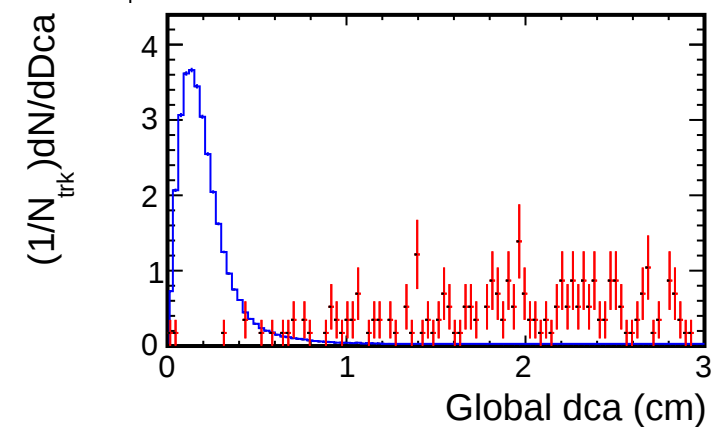
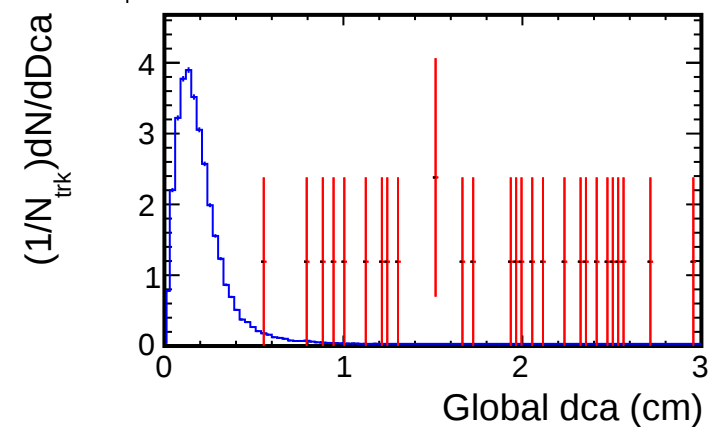
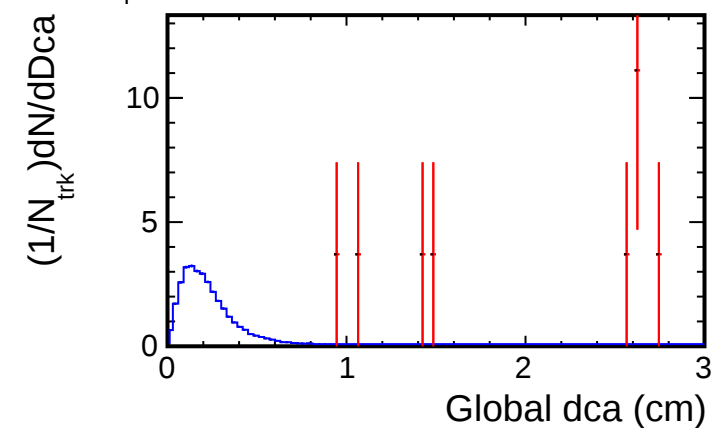
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices2, $0.1 < p_T < 0.5$ (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)

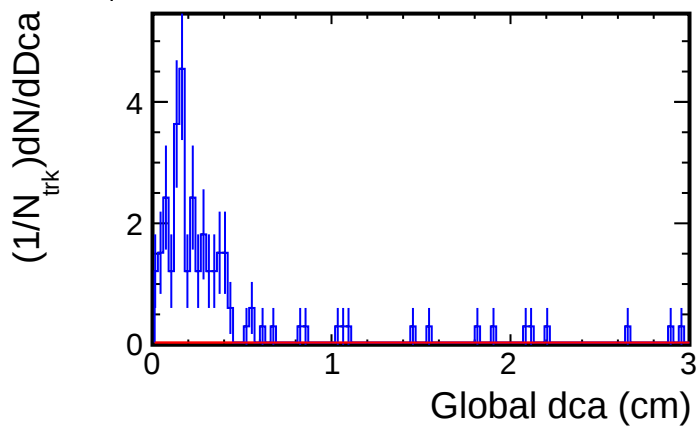
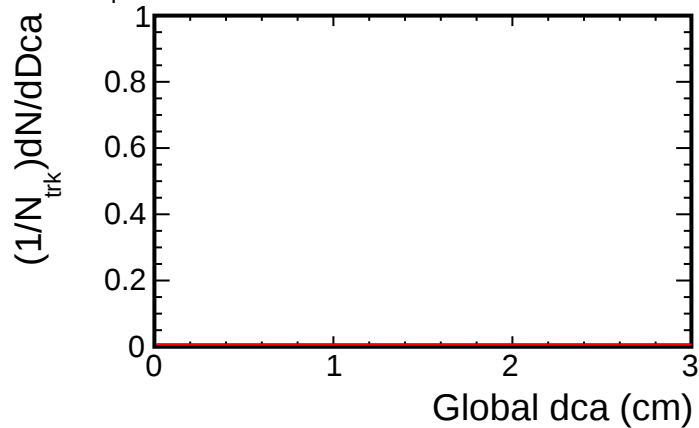
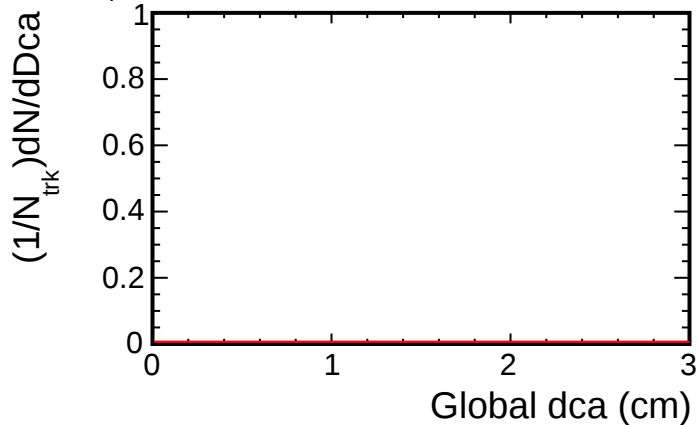
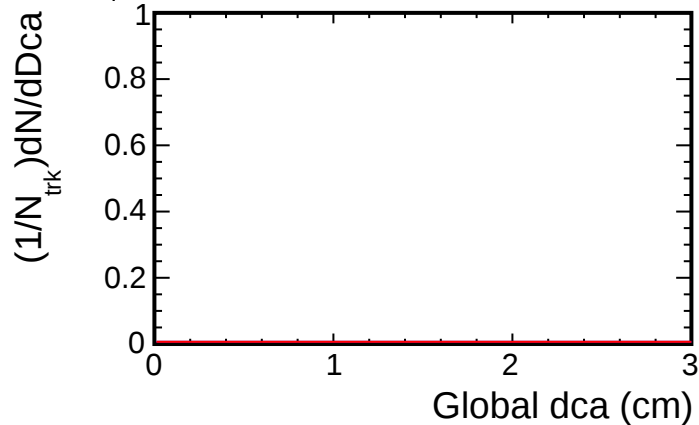
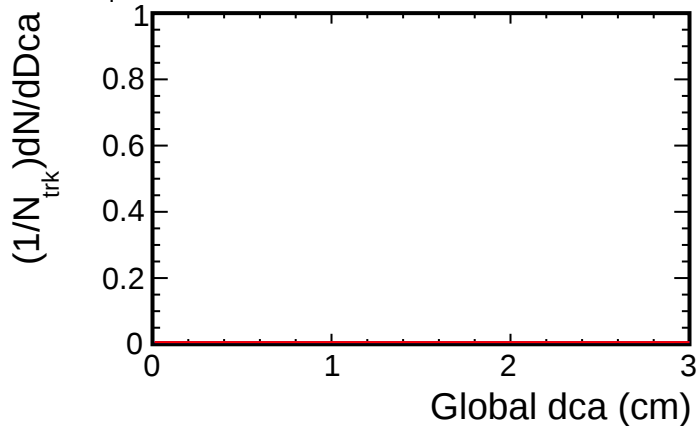
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

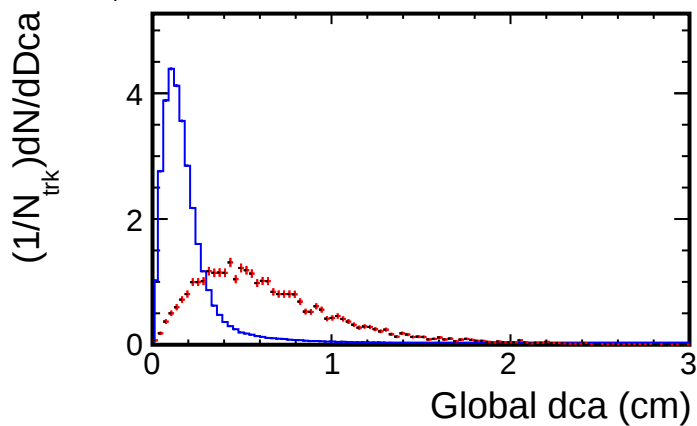
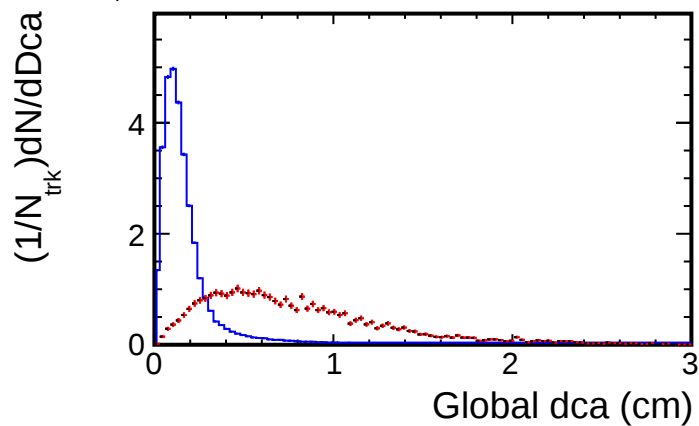
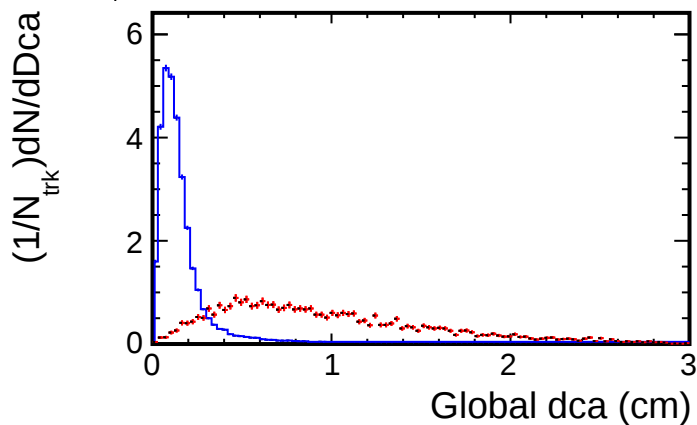
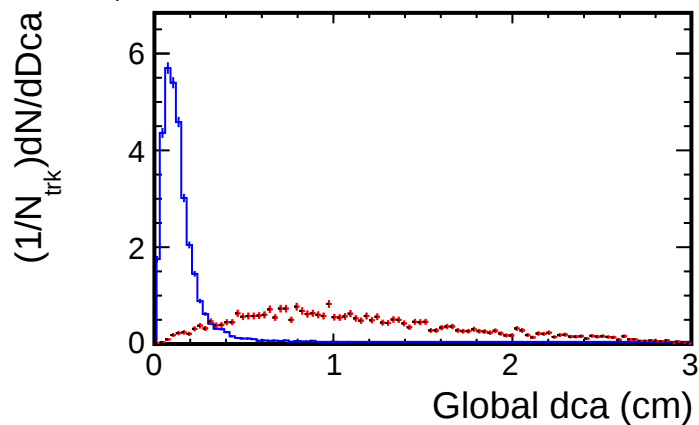
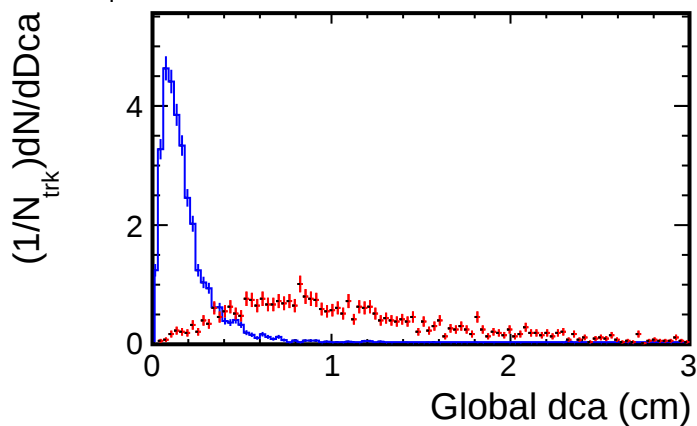
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices2, $0.5 < p_T < 1.0$ (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)

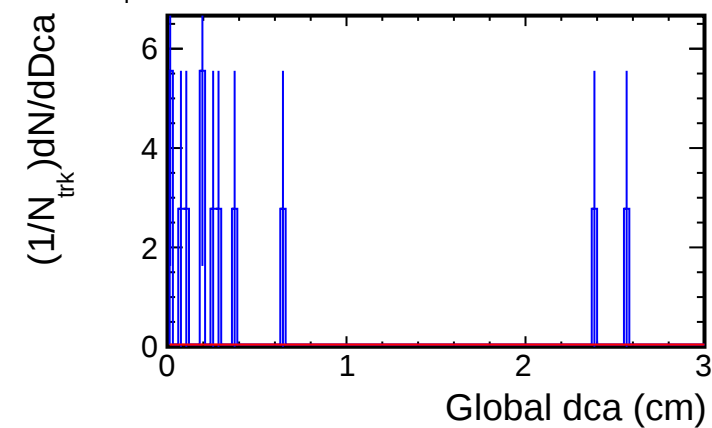
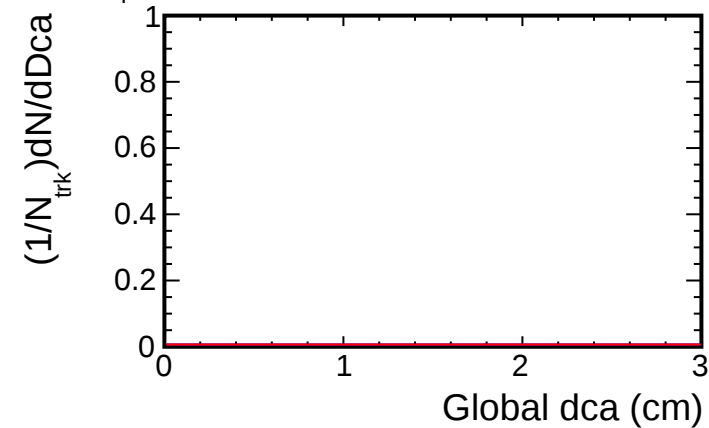
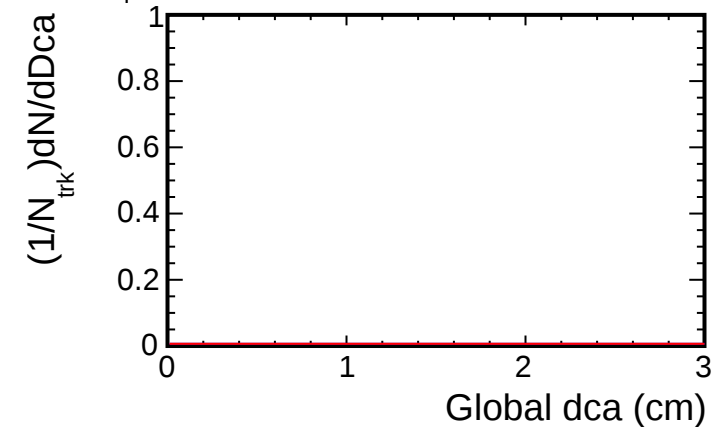
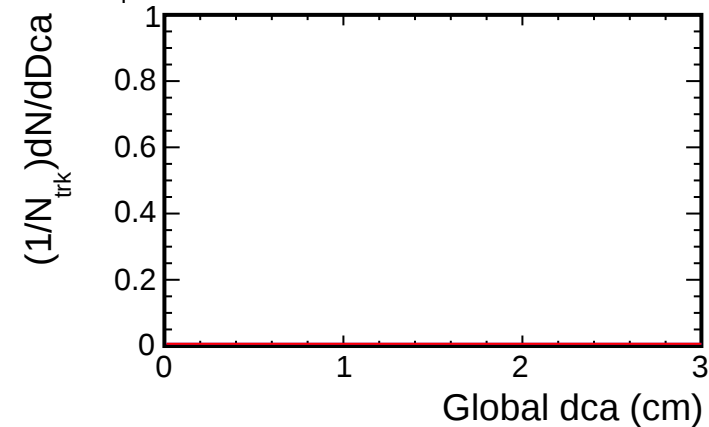
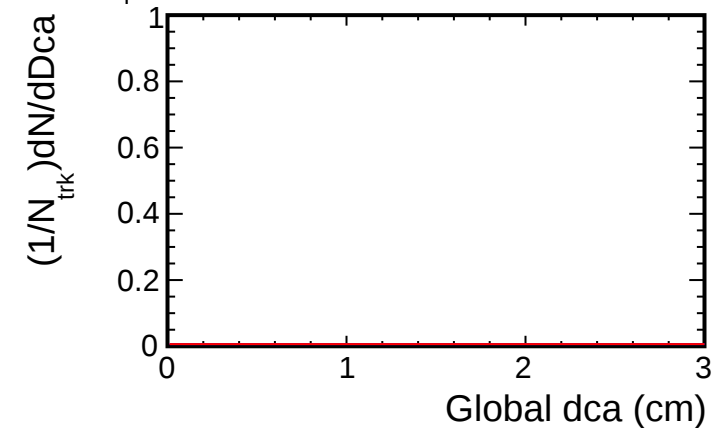
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

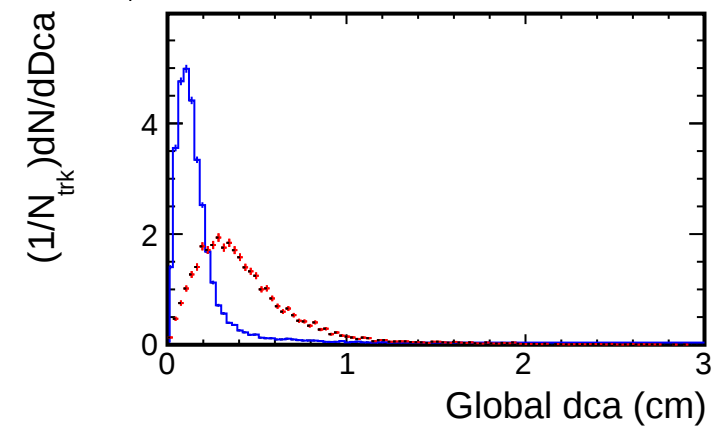
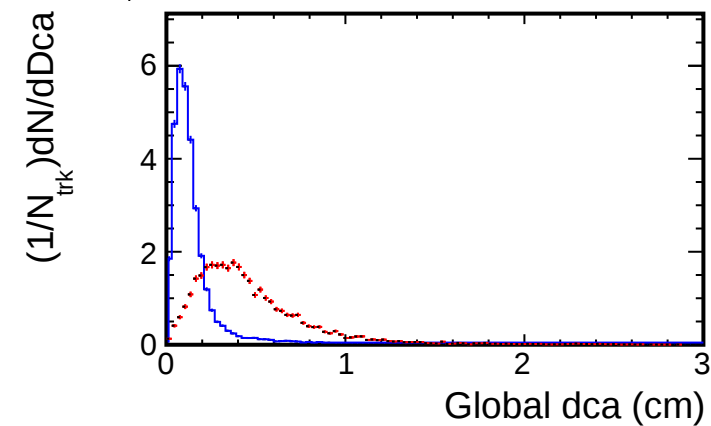
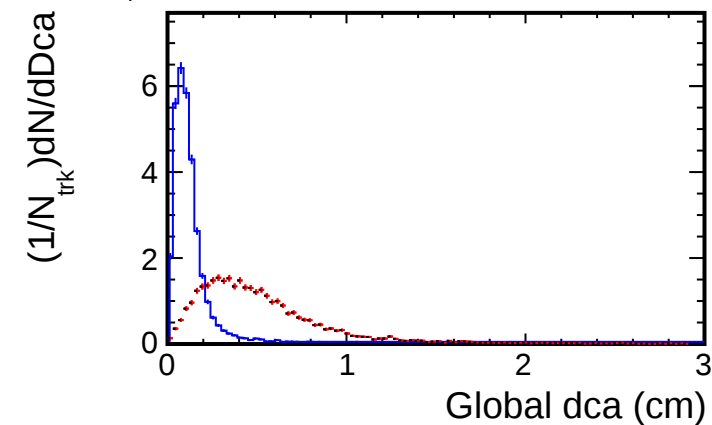
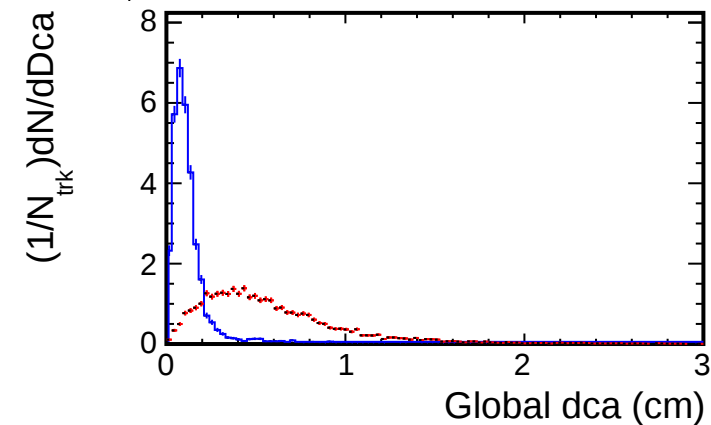
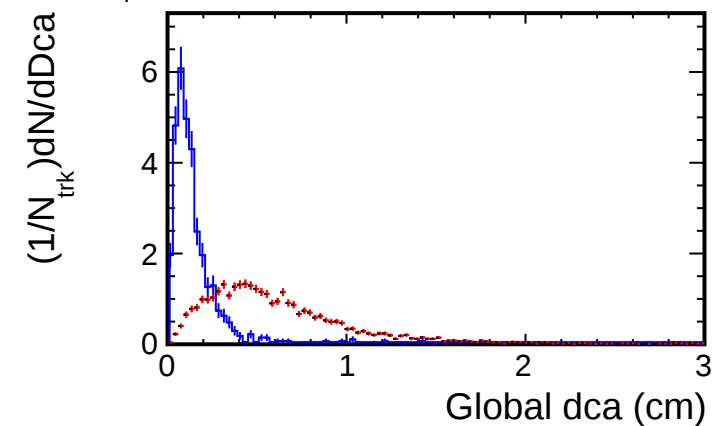
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices2, $1.0 < p_T < 1.5$ (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)

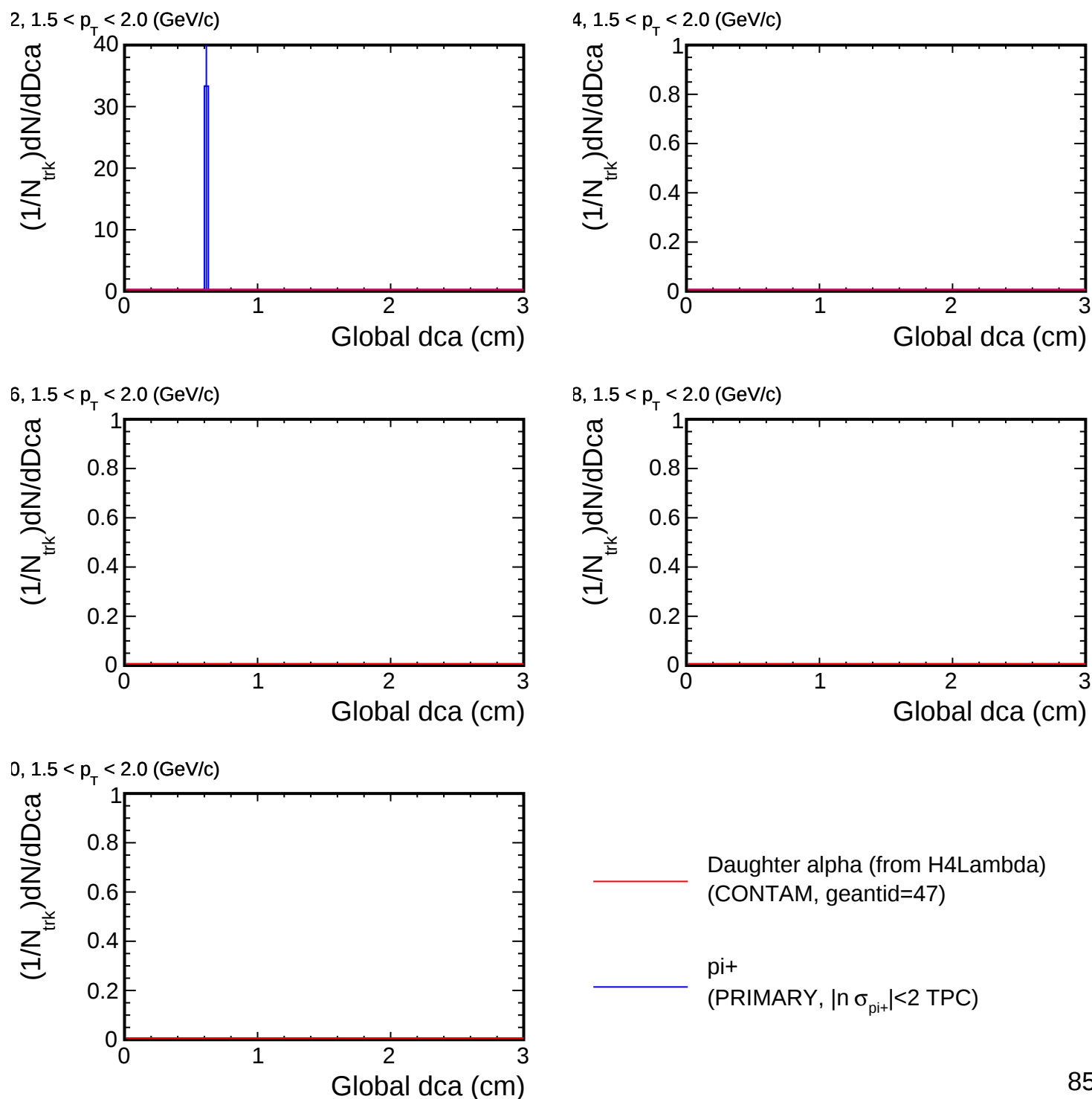
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

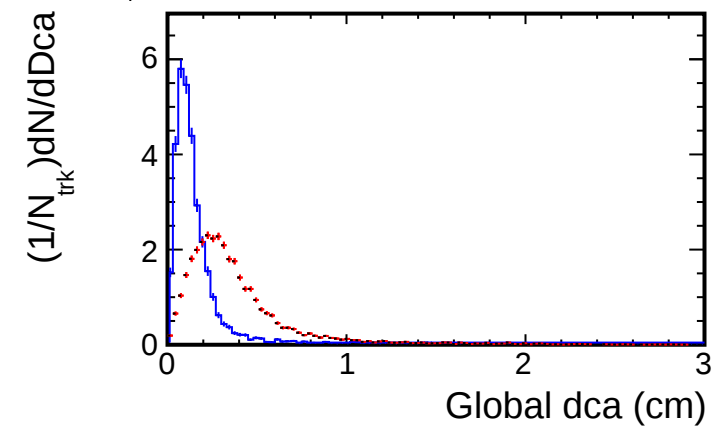
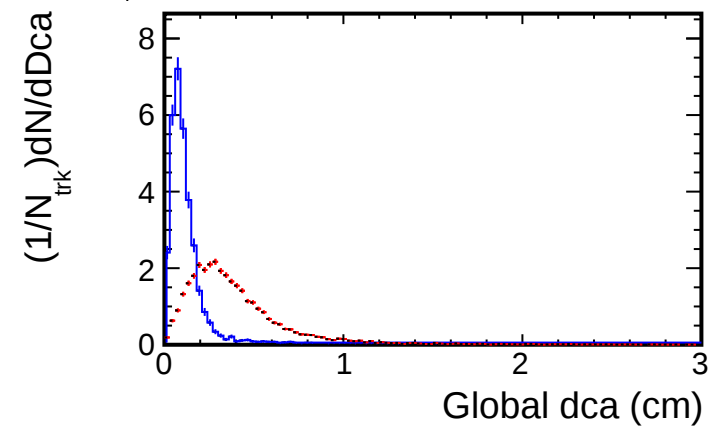
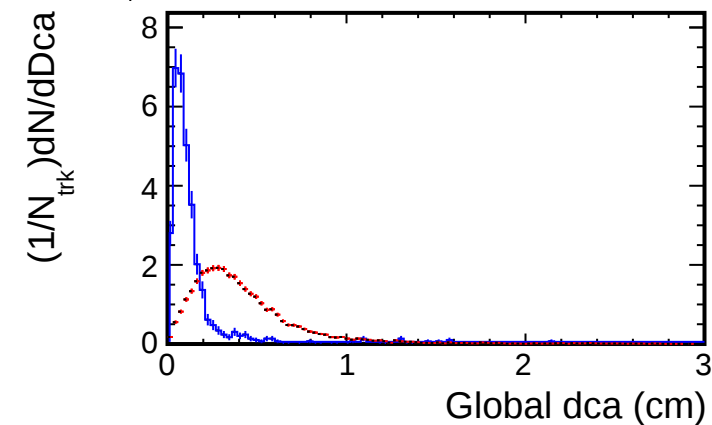
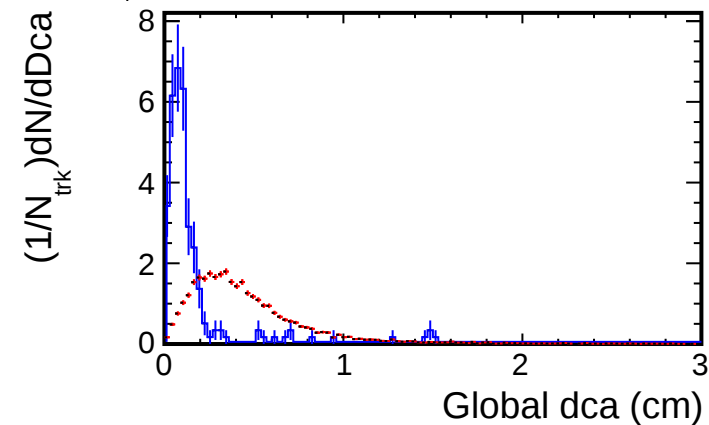
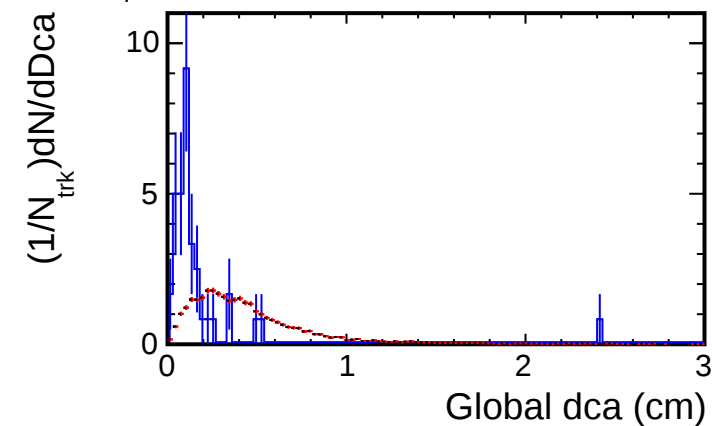
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Dca distribution for (p_T , η) slices $1.8, 1.5 < p_T < 2.0$ (GeV/c) $1.6, 1.5 < p_T < 2.0$ (GeV/c) $1.4, 1.5 < p_T < 2.0$ (GeV/c) $1.2, 1.5 < p_T < 2.0$ (GeV/c) $1.0, 1.5 < p_T < 2.0$ (GeV/c)

— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

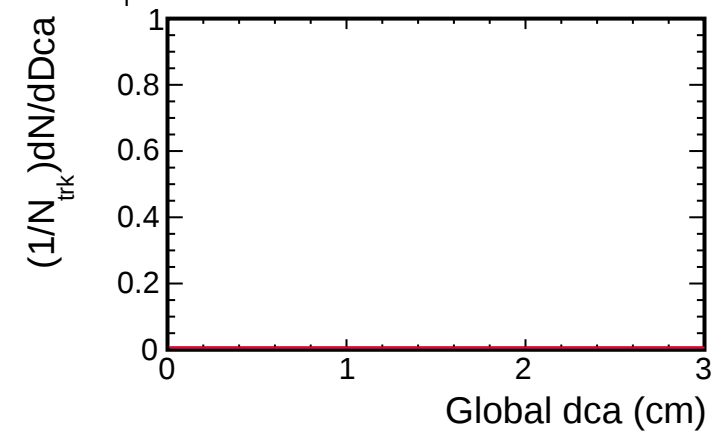
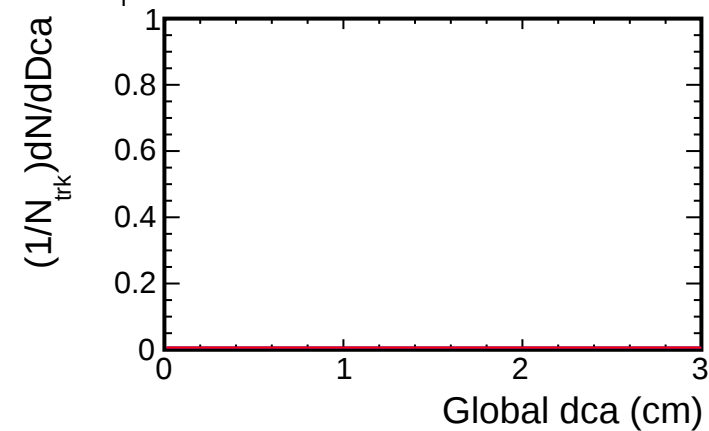
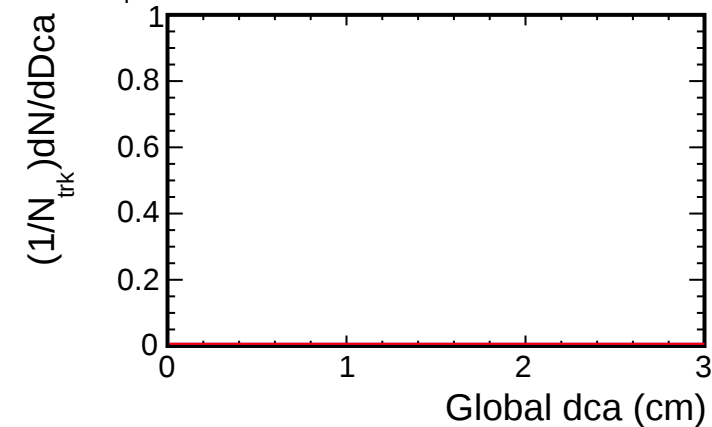
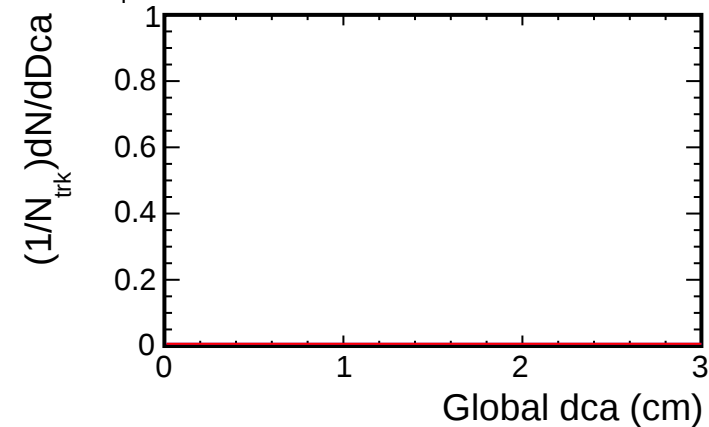
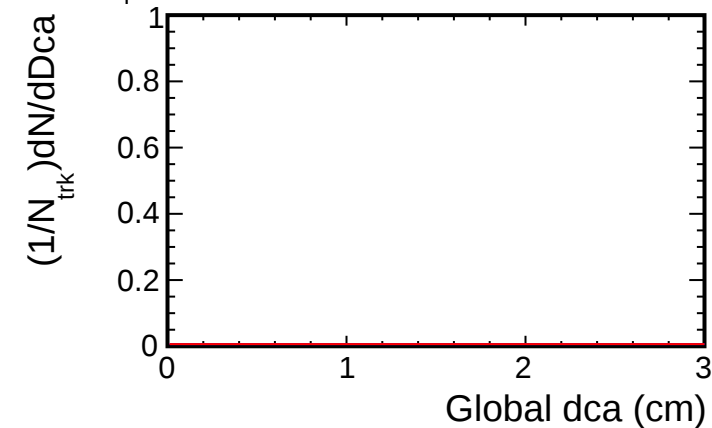
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

Dca distribution for (p_T , η) slices $1.8, 2.0 < p_T < 2.5$ (GeV/c) $1.6, 2.0 < p_T < 2.5$ (GeV/c) $1.4, 2.0 < p_T < 2.5$ (GeV/c) $1.2, 2.0 < p_T < 2.5$ (GeV/c) $1.0, 2.0 < p_T < 2.5$ (GeV/c)

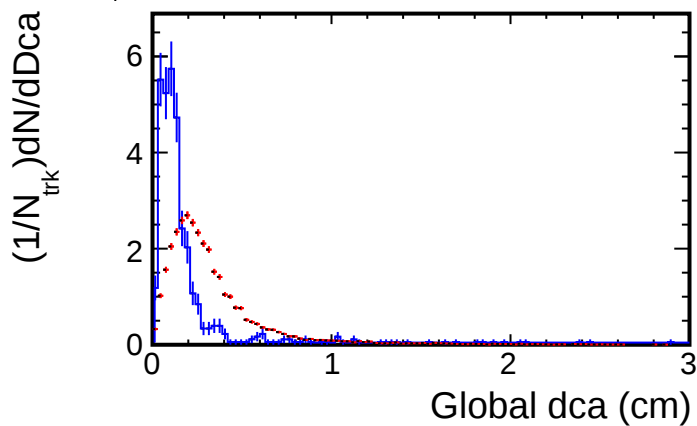
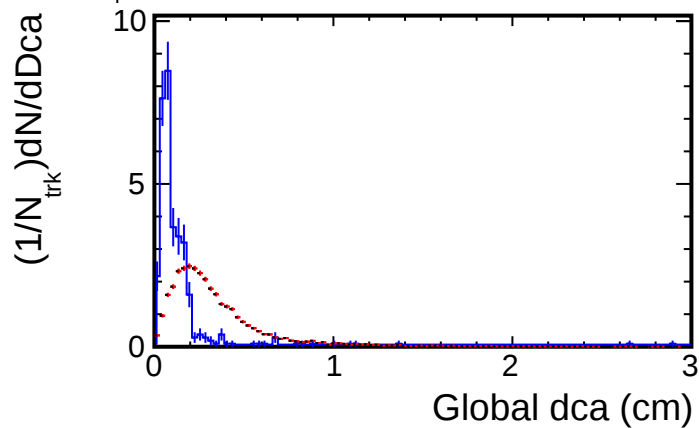
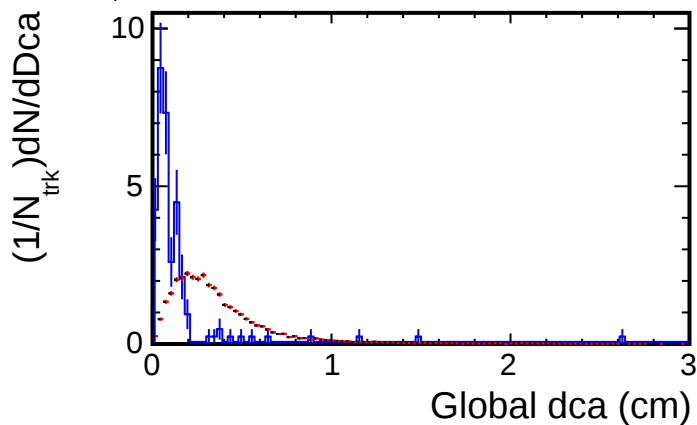
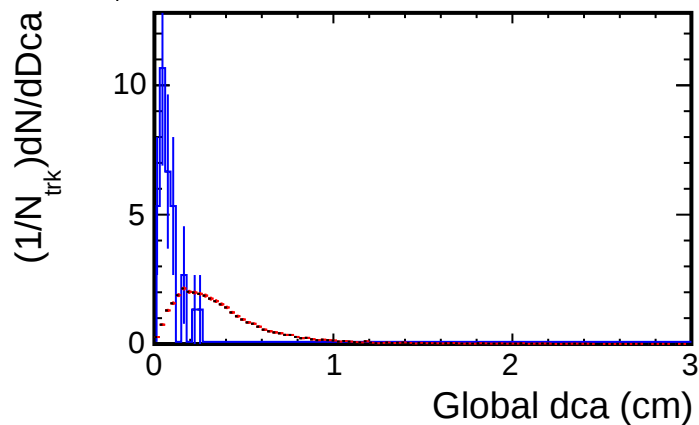
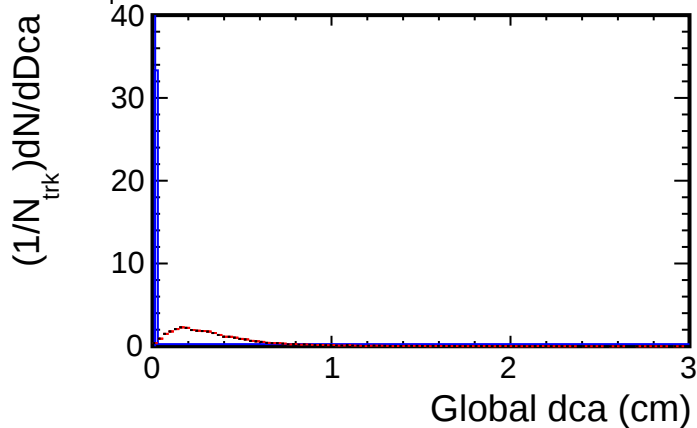
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices2, $2.0 < p_T < 2.5$ (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)

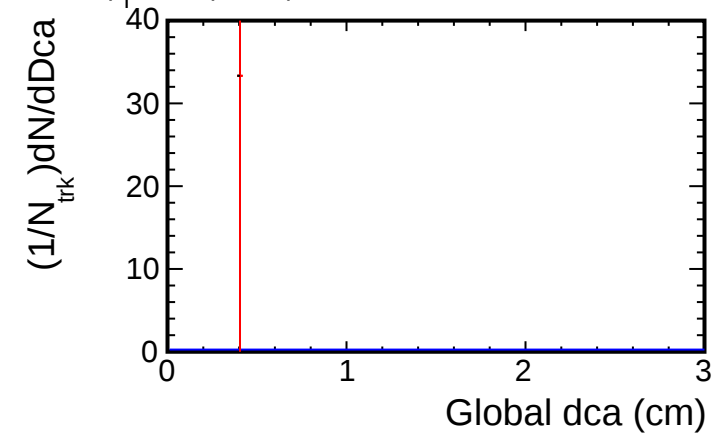
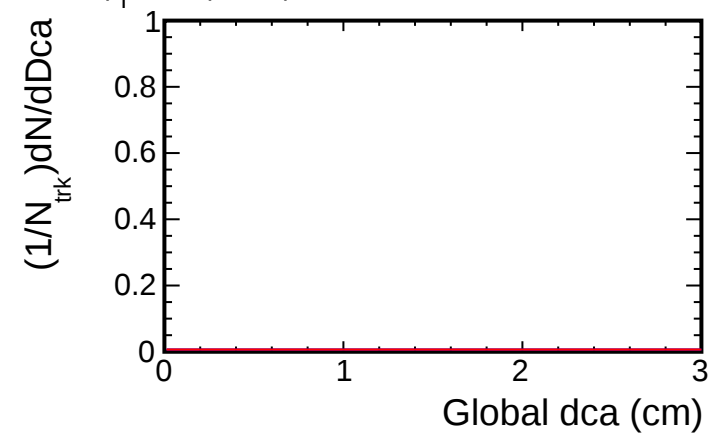
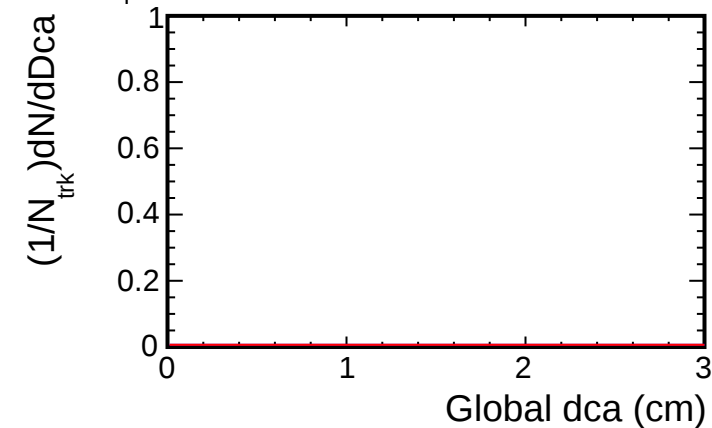
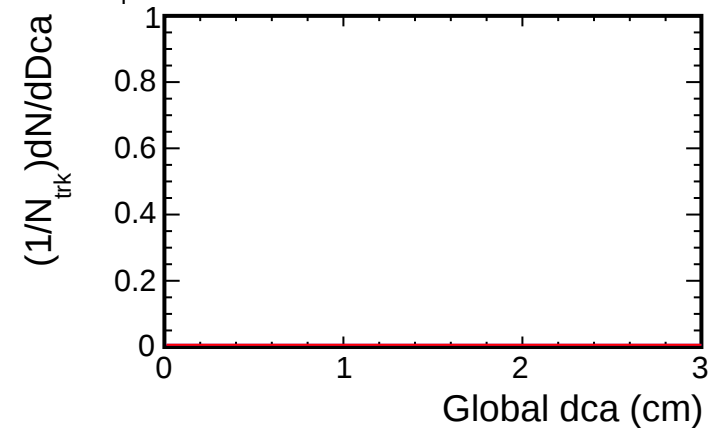
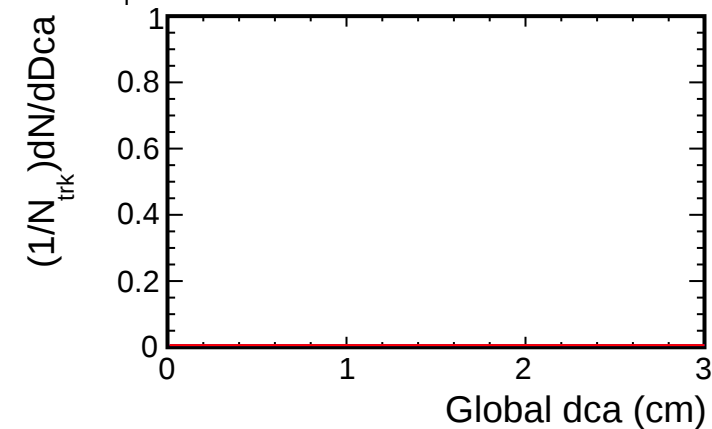
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

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)

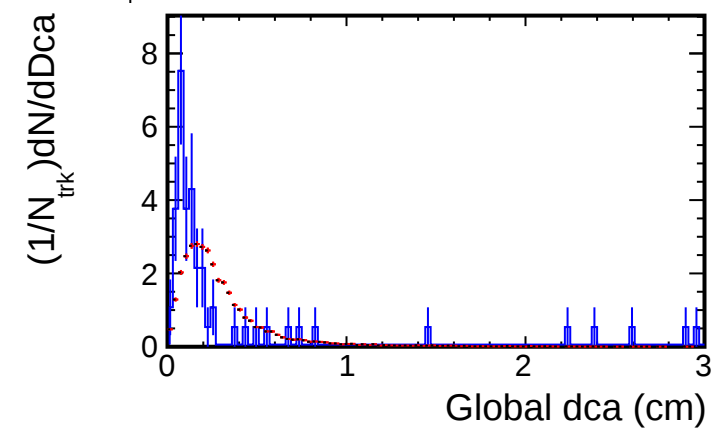
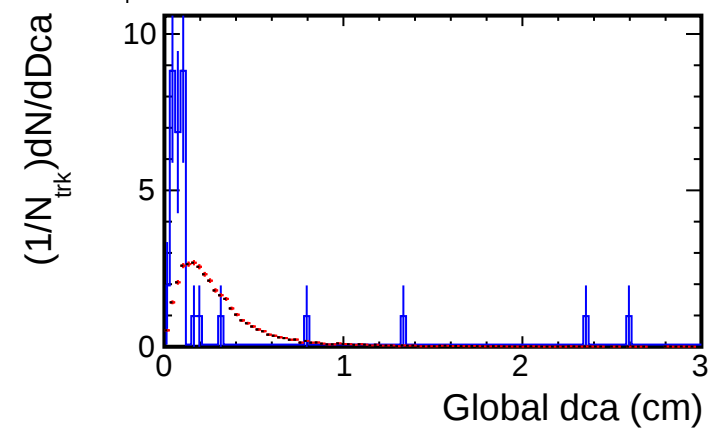
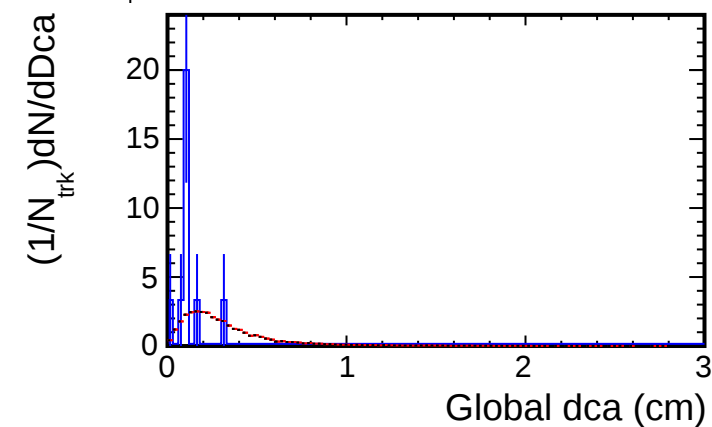
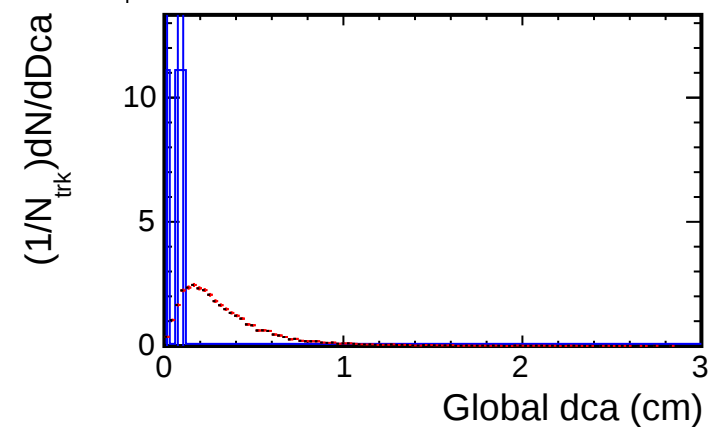
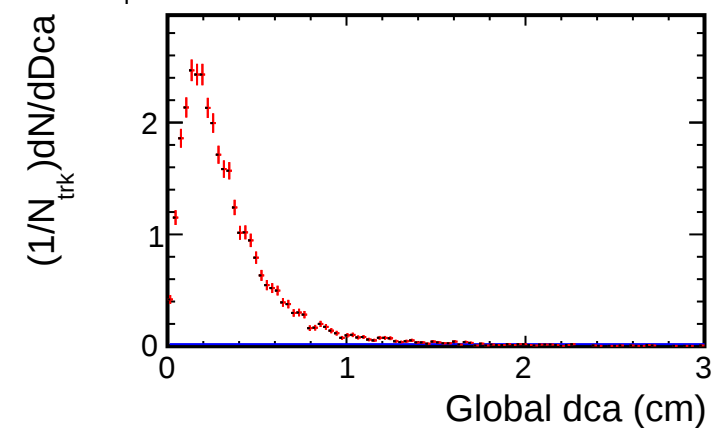
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices2, $2.5 < p_T < 3.0$ (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)

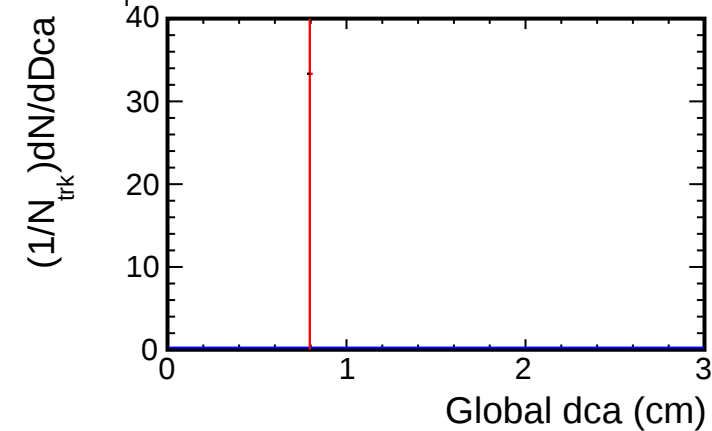
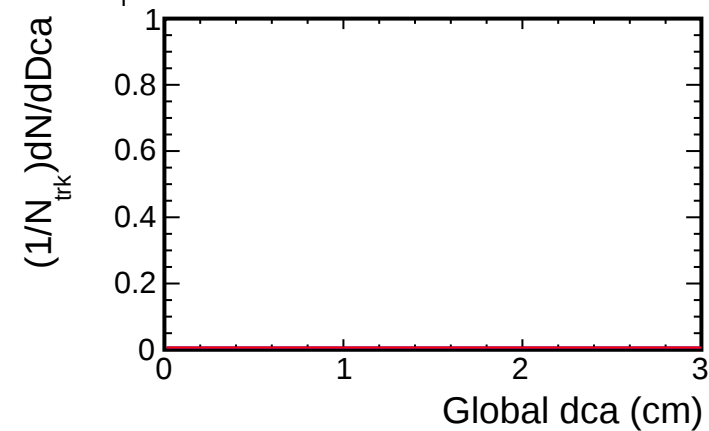
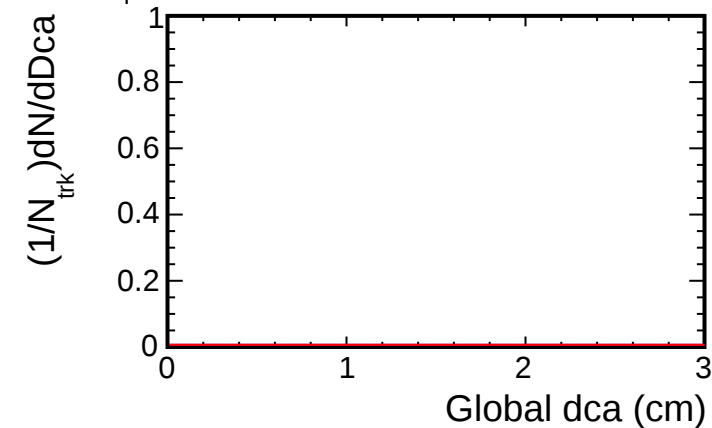
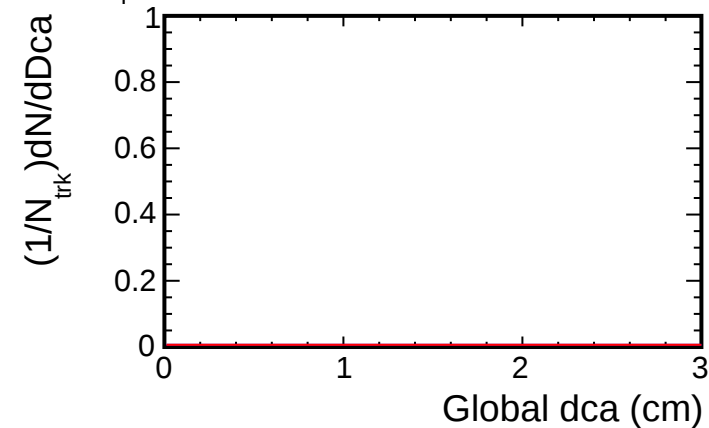
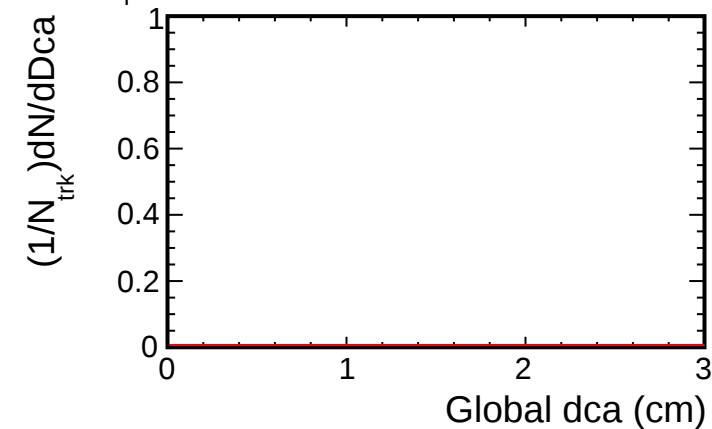
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices1.8, $3.0 < p_T < 3.5$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

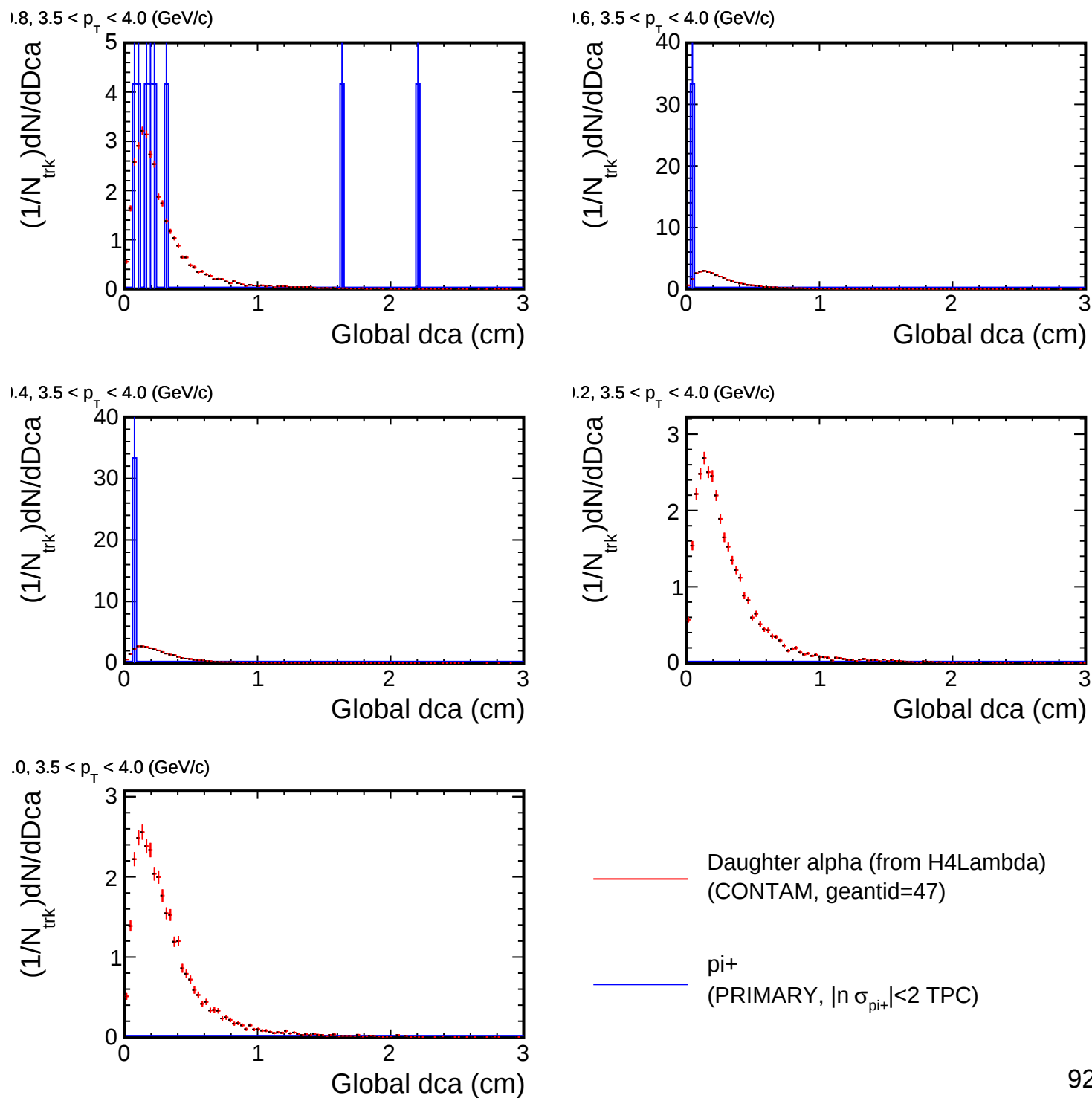
— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ TPC)

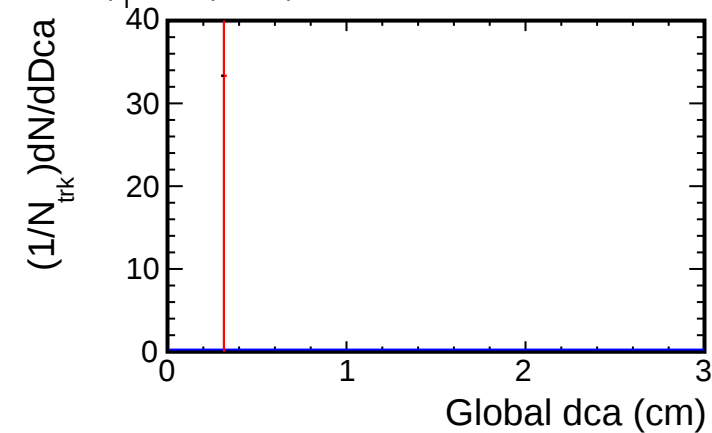
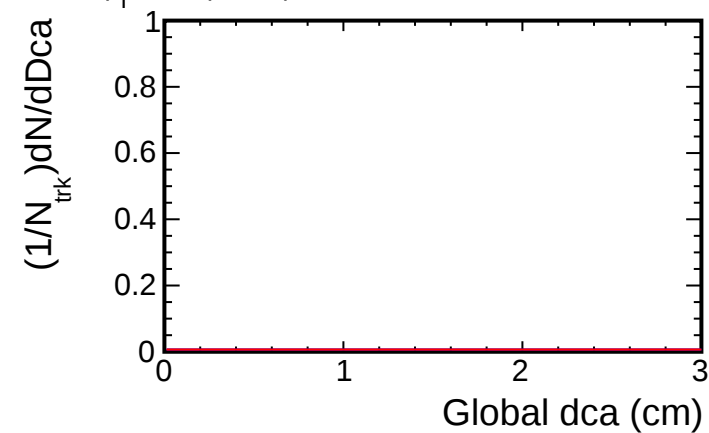
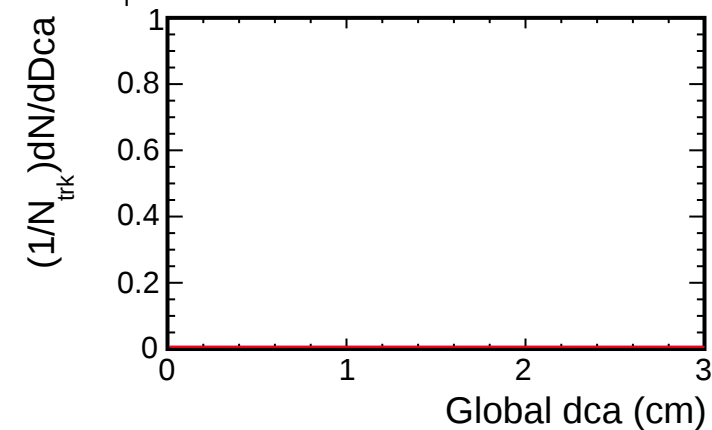
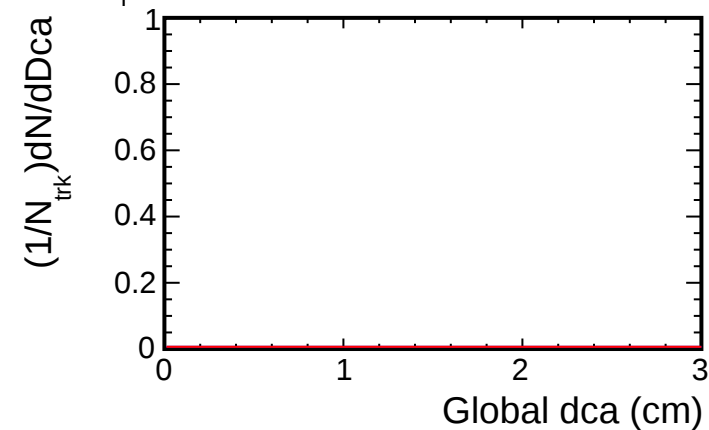
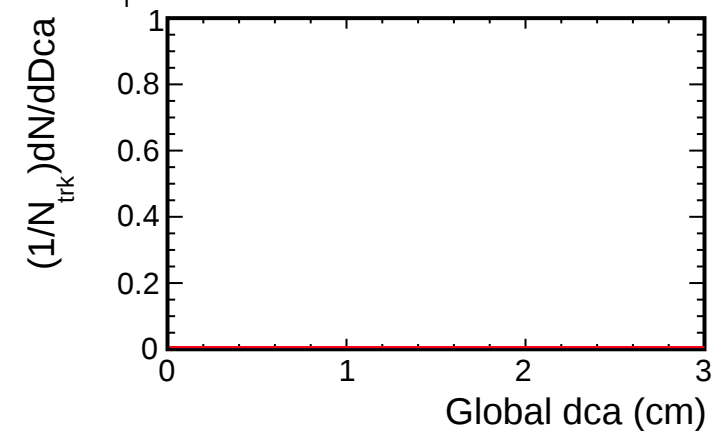
Dca distribution for (p_T , η) slices2, $3.0 < p_T < 3.5$ (GeV/c)4, $3.0 < p_T < 3.5$ (GeV/c)6, $3.0 < p_T < 3.5$ (GeV/c)8, $3.0 < p_T < 3.5$ (GeV/c)0, $3.0 < p_T < 3.5$ (GeV/c)

— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

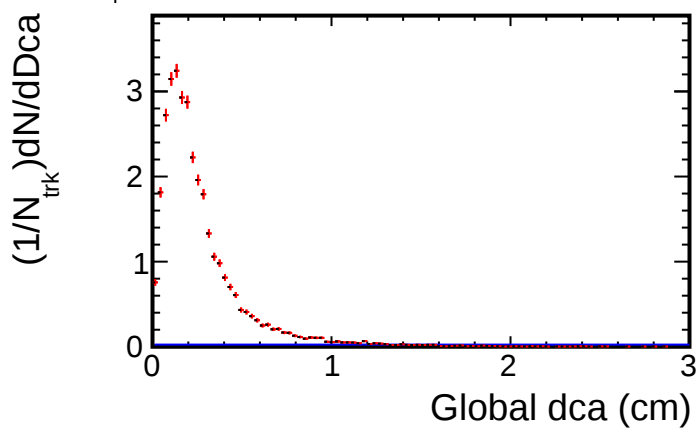
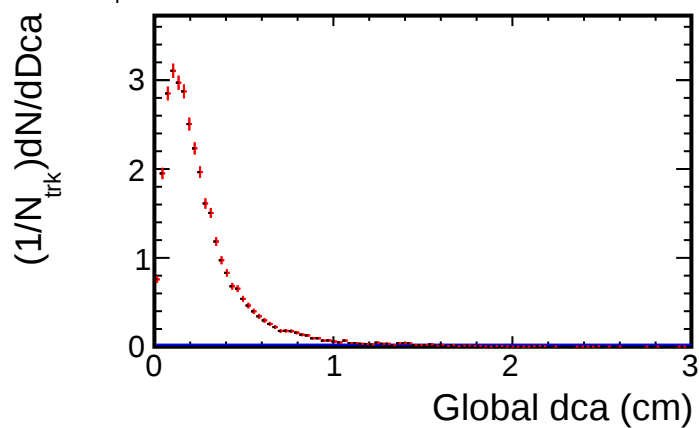
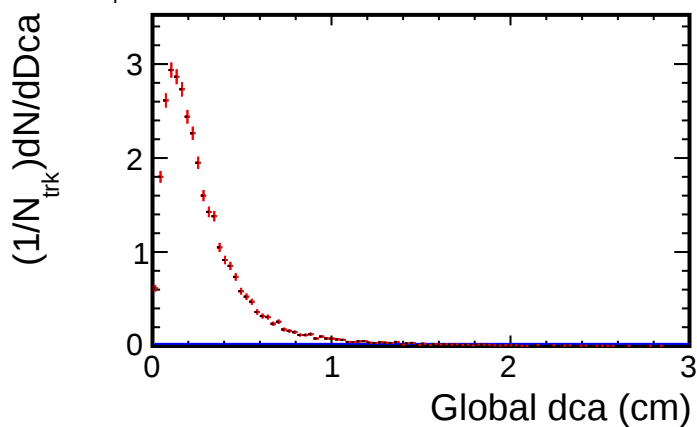
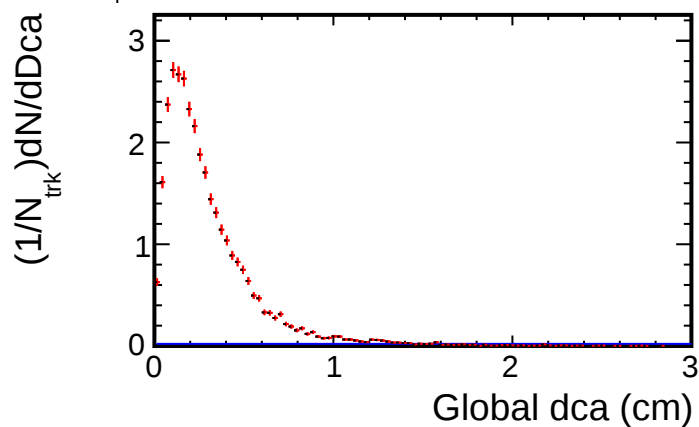
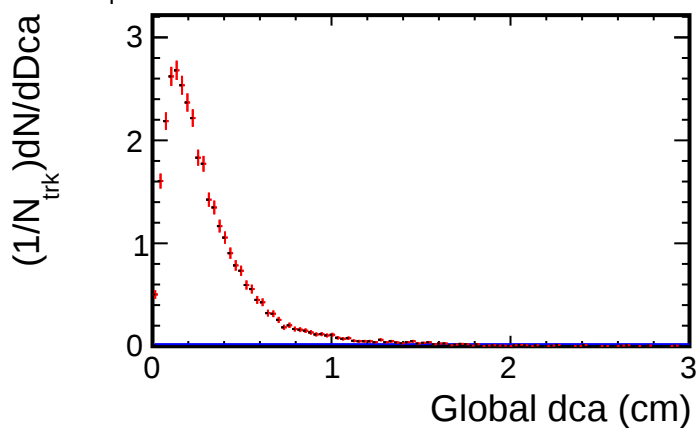
Dca distribution for (p_T , η) slices



Dca distribution for (p_T , η) slices2, $3.5 < p_T < 4.0$ (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)

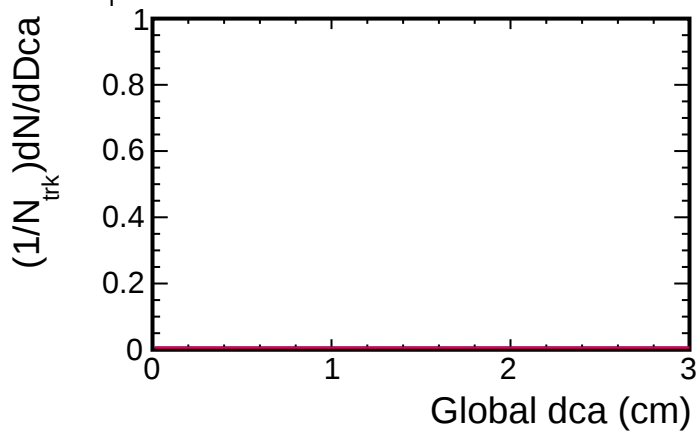
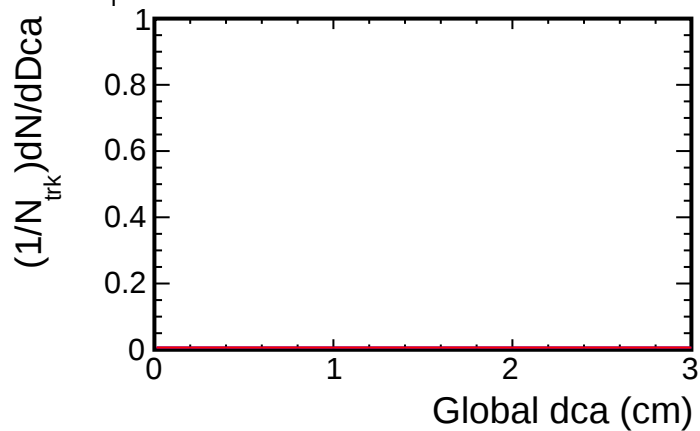
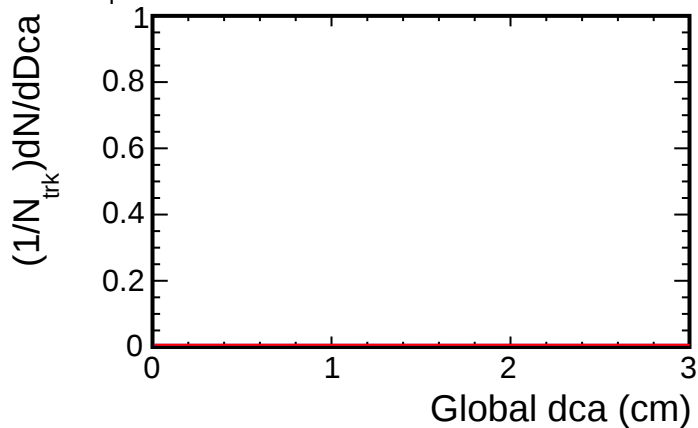
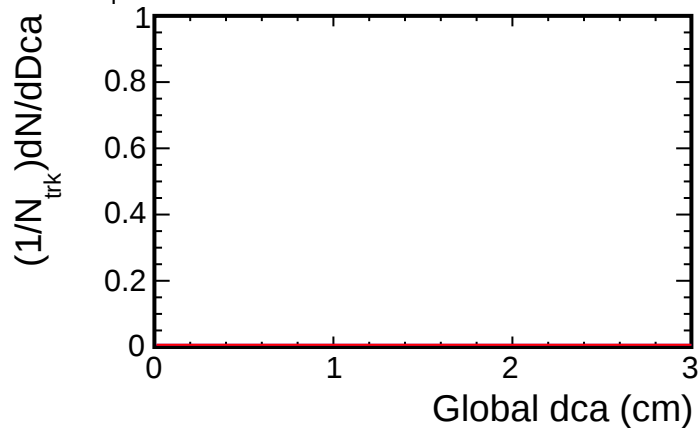
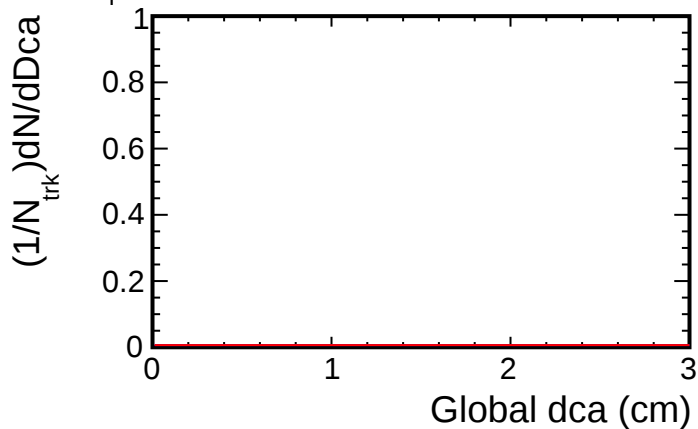
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices1.8, $4.0 < p_T < 4.5$ (GeV/c)1.6, $4.0 < p_T < 4.5$ (GeV/c)1.4, $4.0 < p_T < 4.5$ (GeV/c)1.2, $4.0 < p_T < 4.5$ (GeV/c)1.0, $4.0 < p_T < 4.5$ (GeV/c)

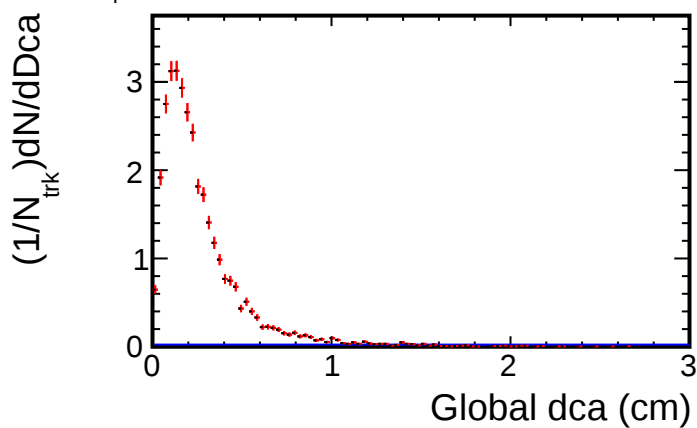
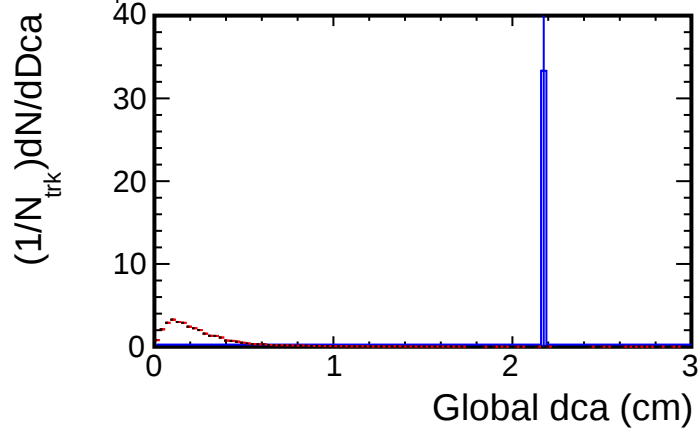
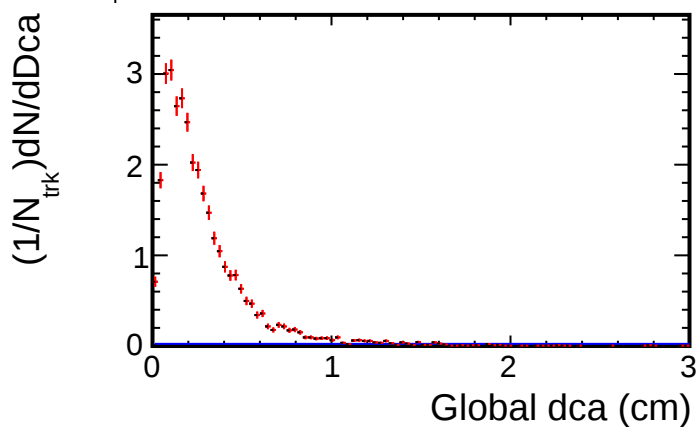
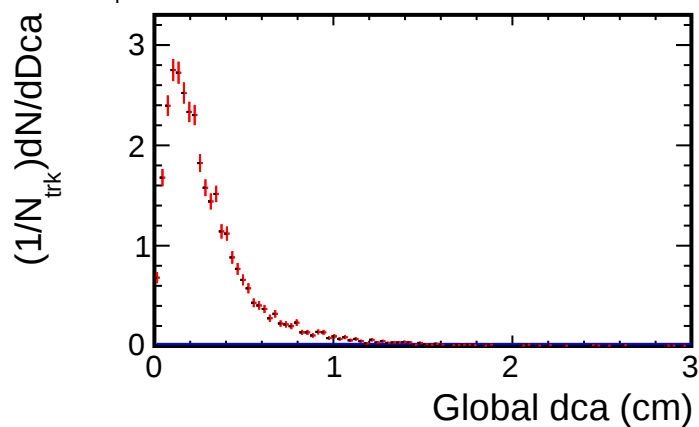
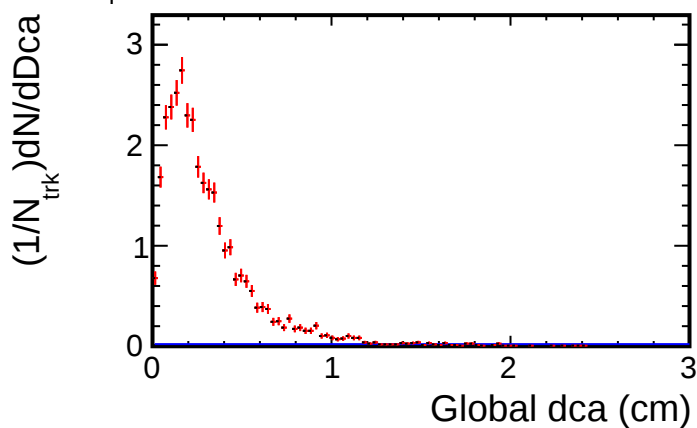
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices2, $4.0 < p_T < 4.5$ (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)

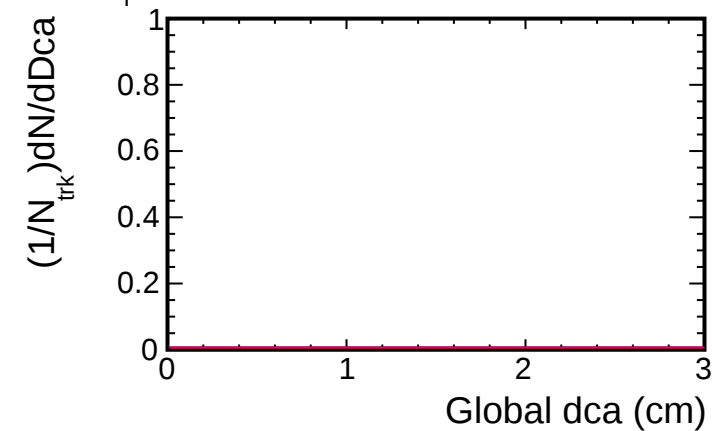
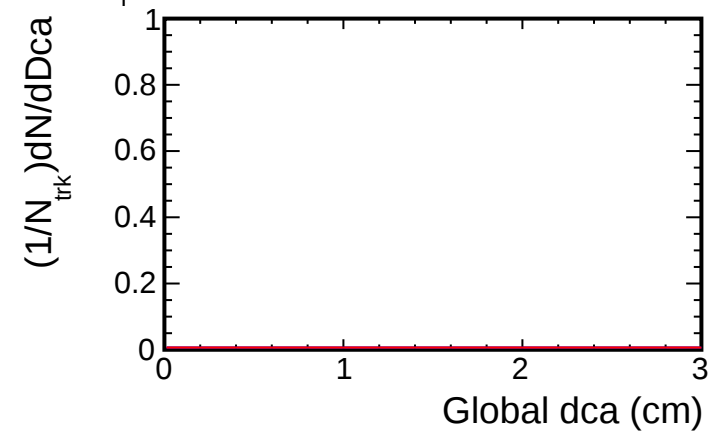
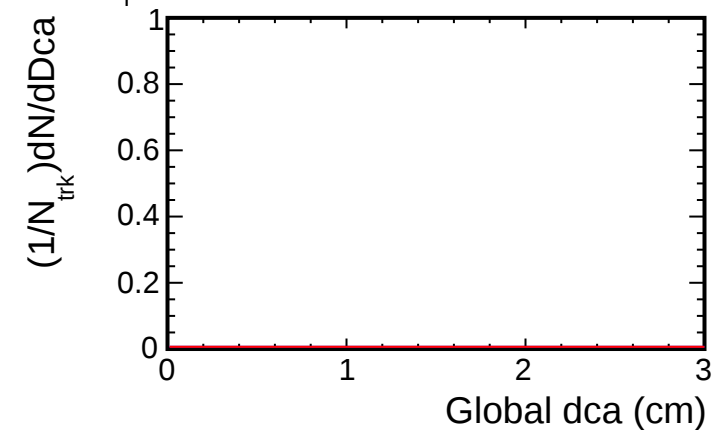
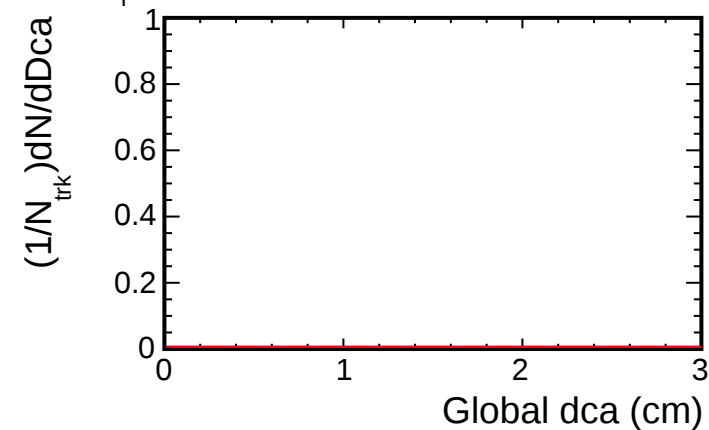
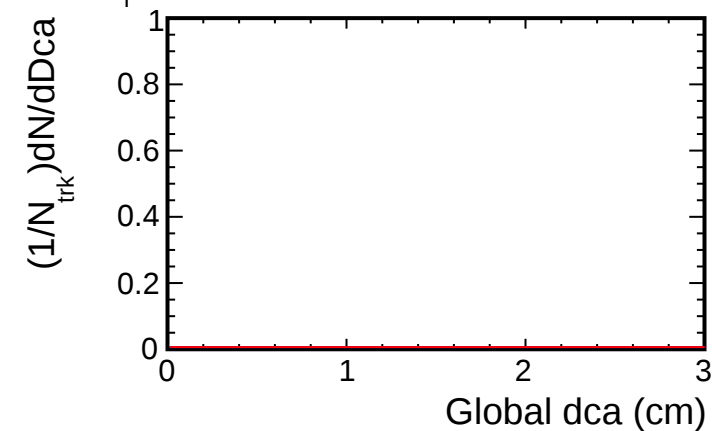
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca 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)

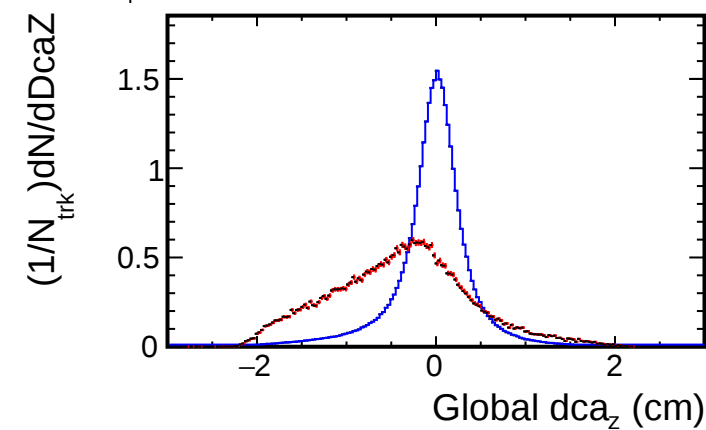
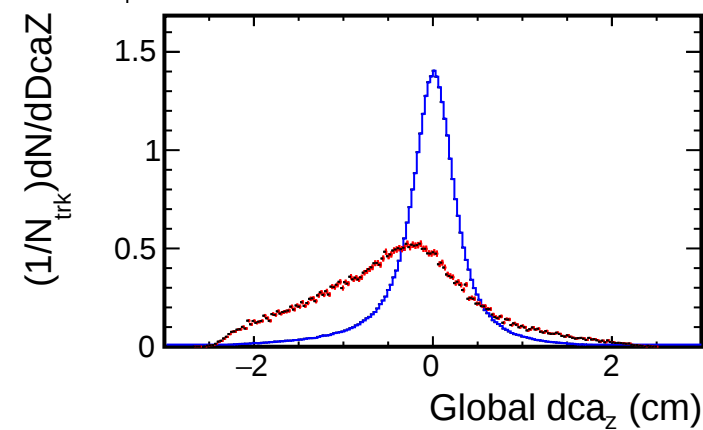
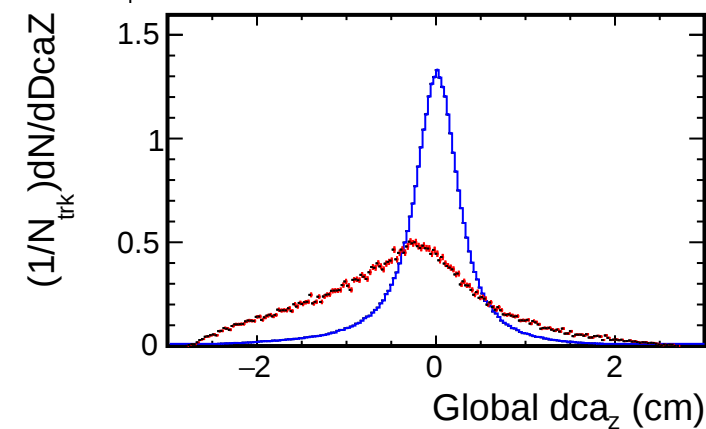
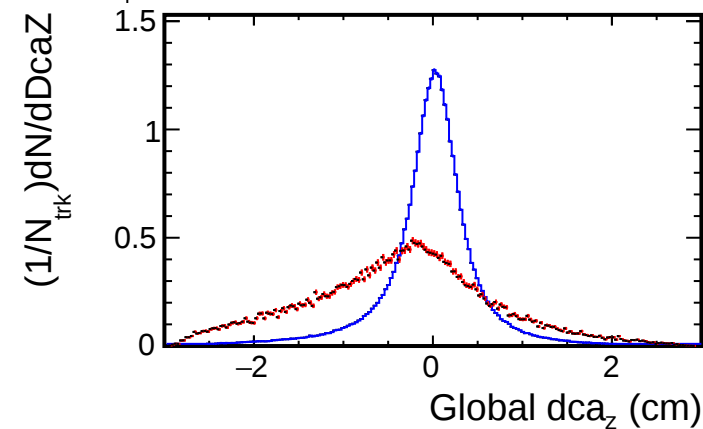
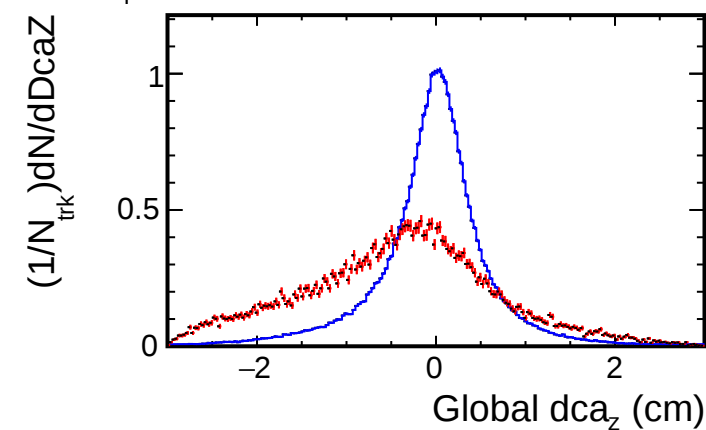
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices2, $4.5 < p_T < 5.0$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

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

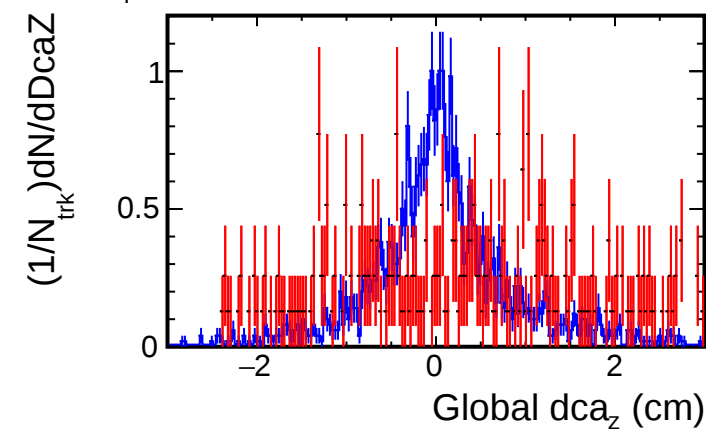
DcaZ distribution for (p_T , η) slices $1.8, 0.1 < p_T < 0.5$ (GeV/c) $1.6, 0.1 < p_T < 0.5$ (GeV/c) $1.4, 0.1 < p_T < 0.5$ (GeV/c) $1.2, 0.1 < p_T < 0.5$ (GeV/c) $1.0, 0.1 < p_T < 0.5$ (GeV/c)

— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

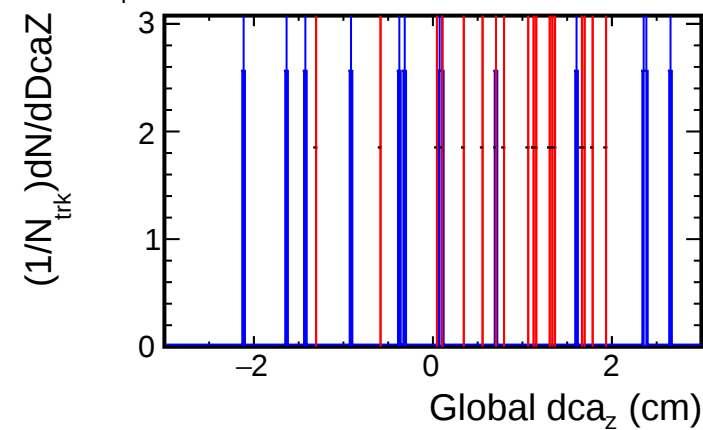
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

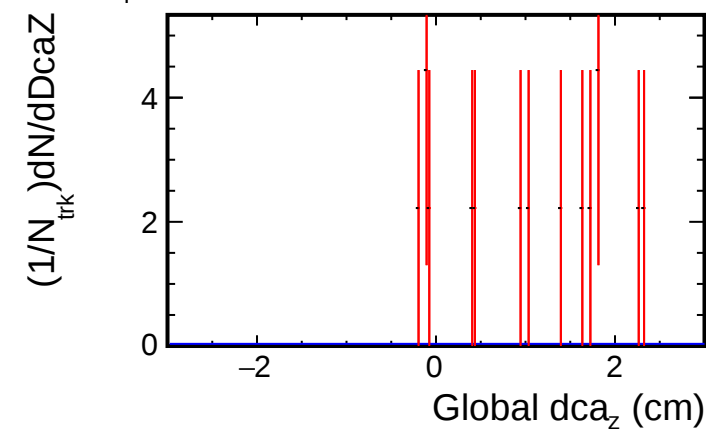
2, $0.1 < p_T < 0.5$ (GeV/c)



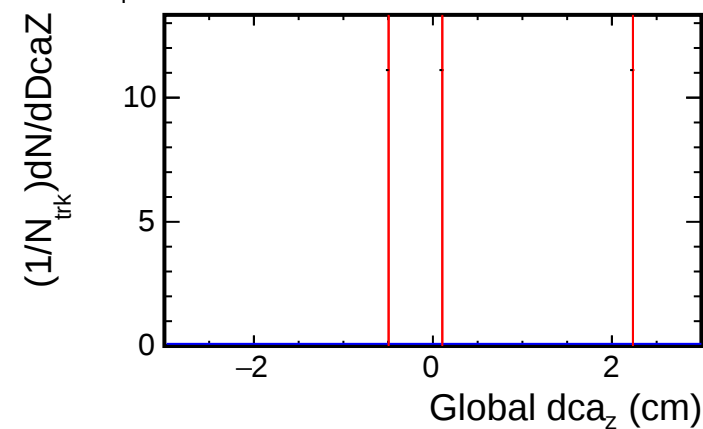
4, $0.1 < p_T < 0.5$ (GeV/c)



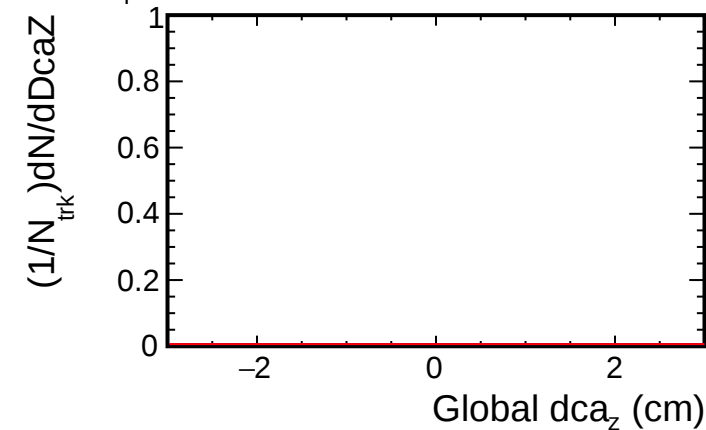
6, $0.1 < p_T < 0.5$ (GeV/c)



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

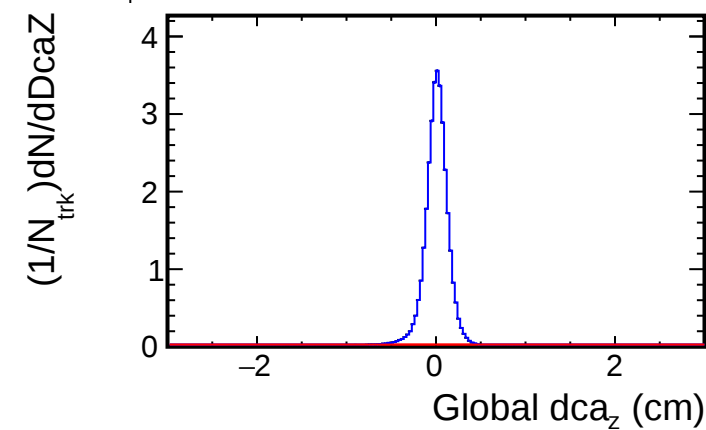
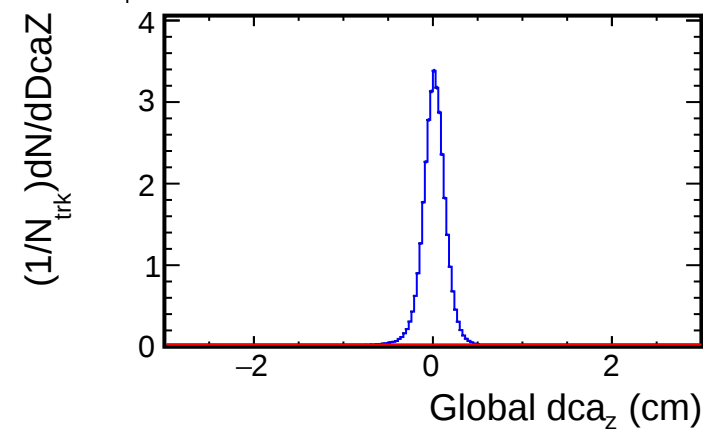
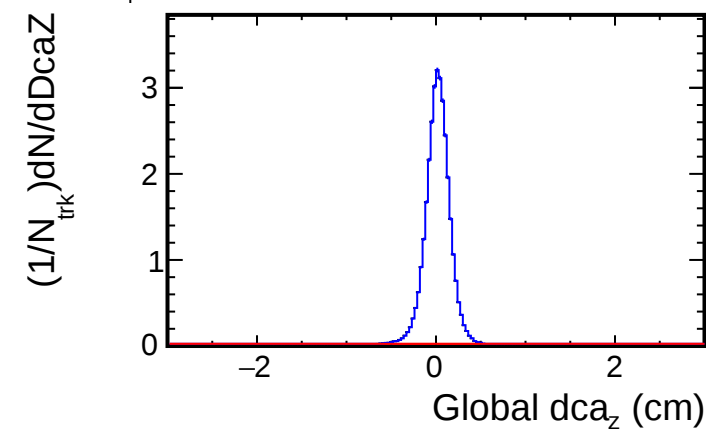
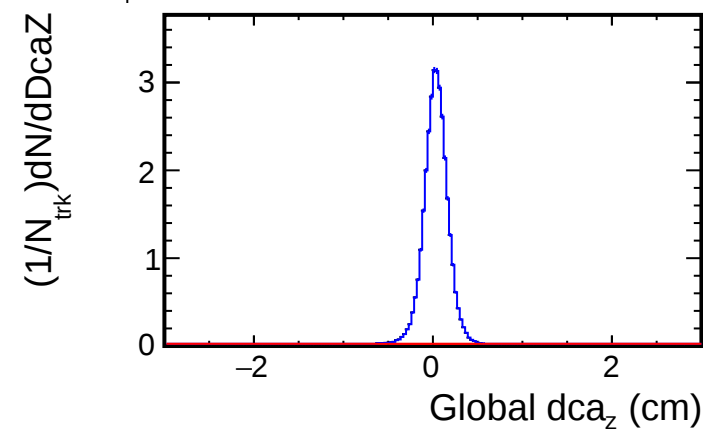
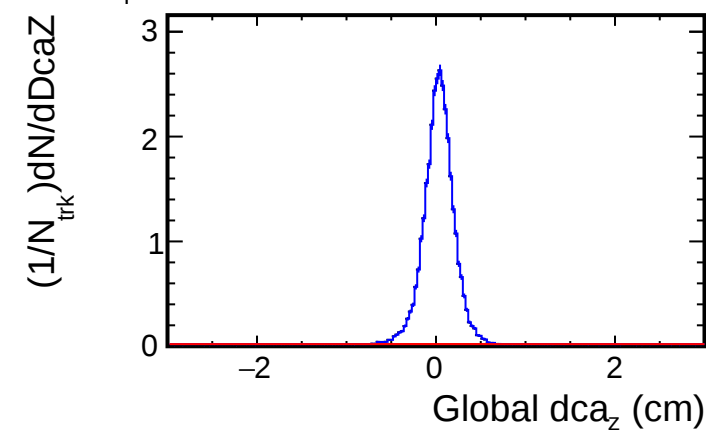


0, $0.1 < p_T < 0.5$ (GeV/c)



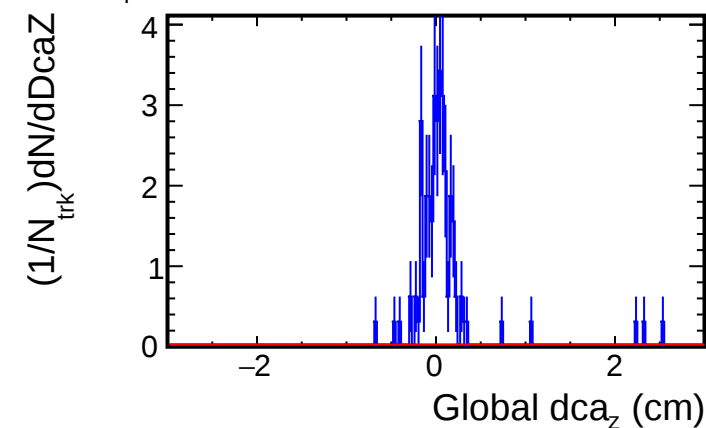
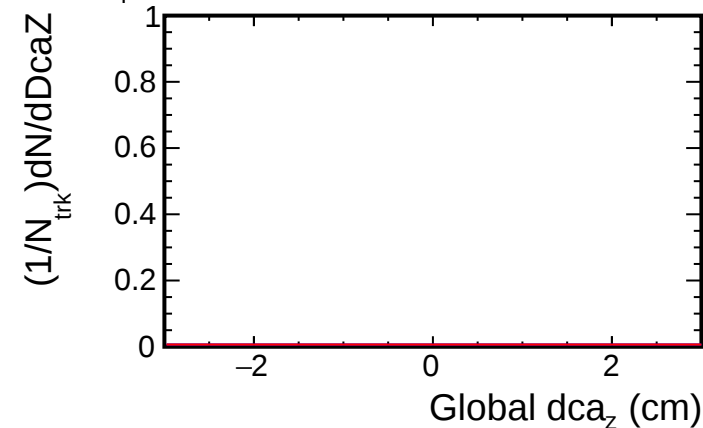
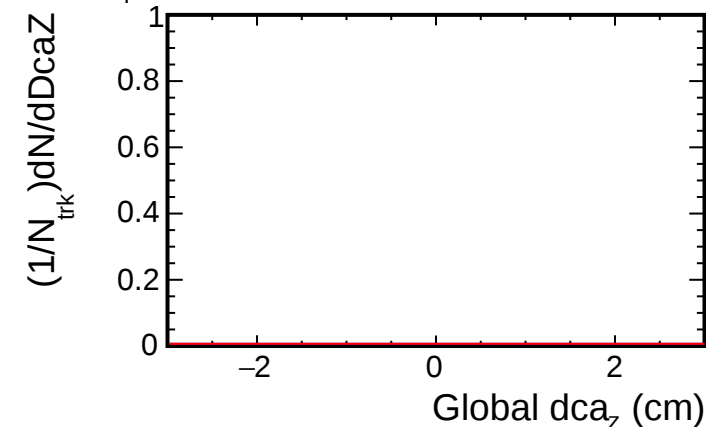
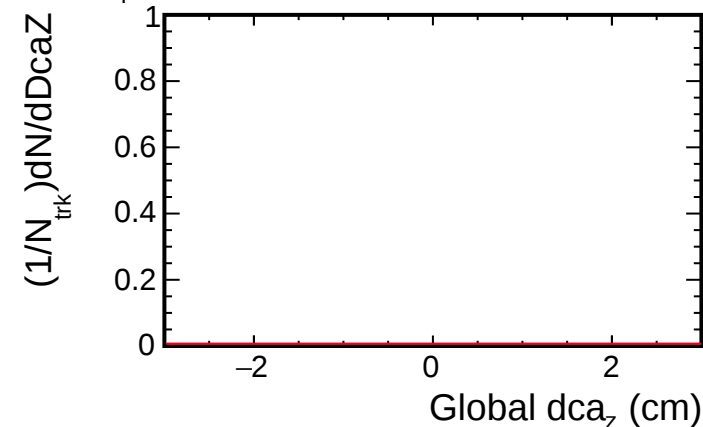
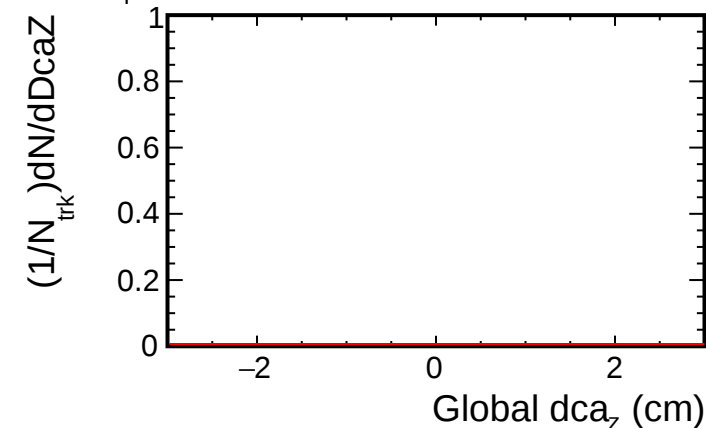
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices $1.8, 0.5 < p_T < 1.0$ (GeV/c) $1.6, 0.5 < p_T < 1.0$ (GeV/c) $1.4, 0.5 < p_T < 1.0$ (GeV/c) $1.2, 0.5 < p_T < 1.0$ (GeV/c) $1.0, 0.5 < p_T < 1.0$ (GeV/c)

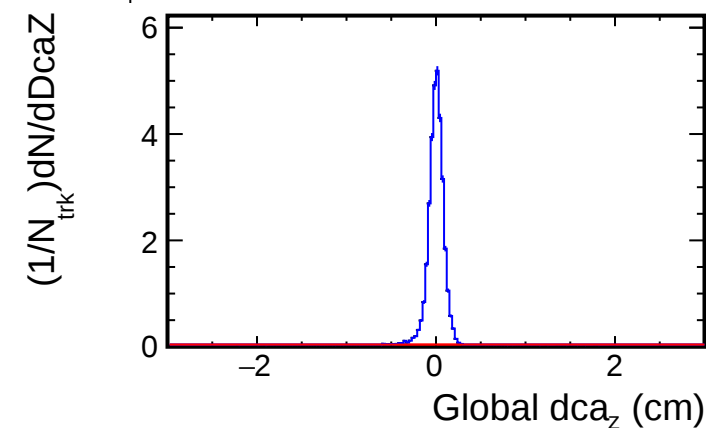
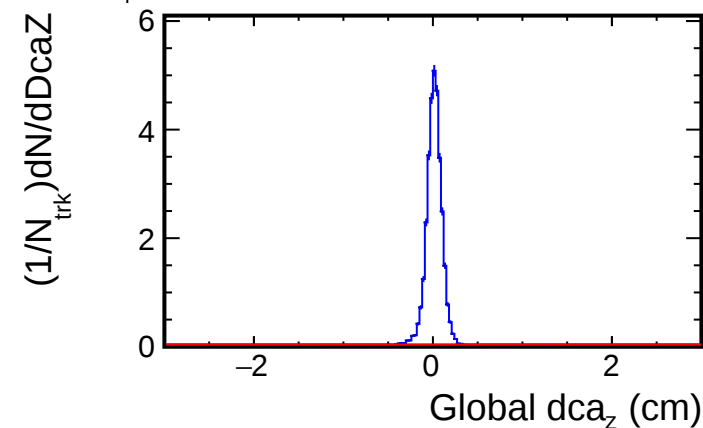
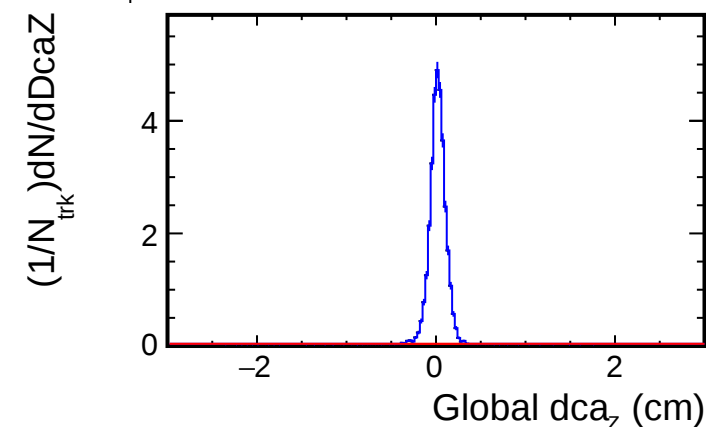
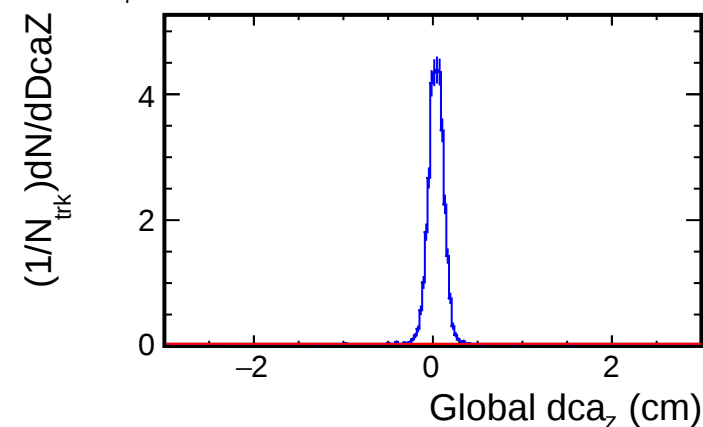
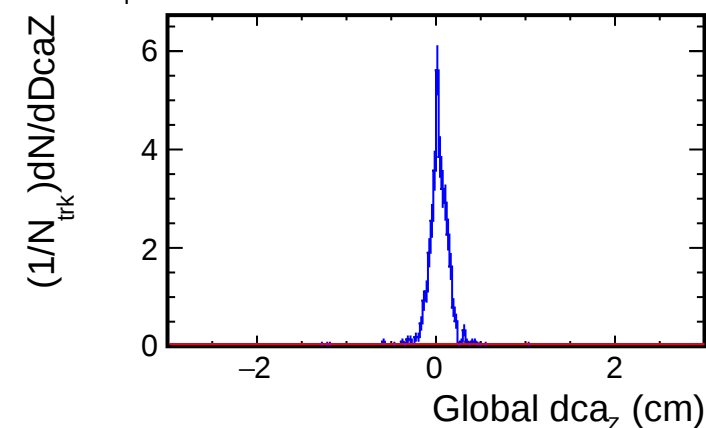
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices2, $0.5 < p_T < 1.0$ (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)

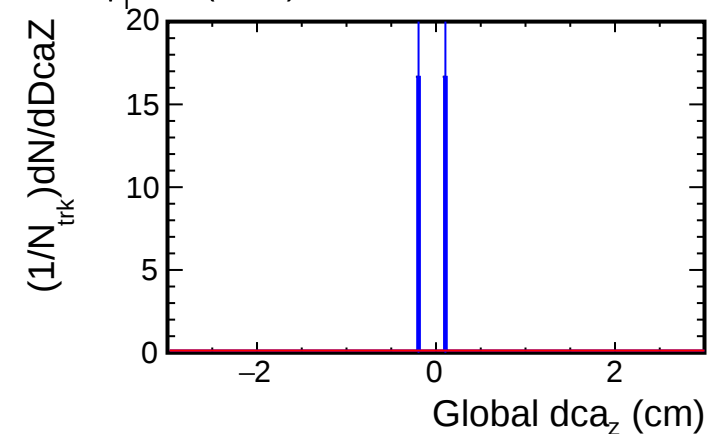
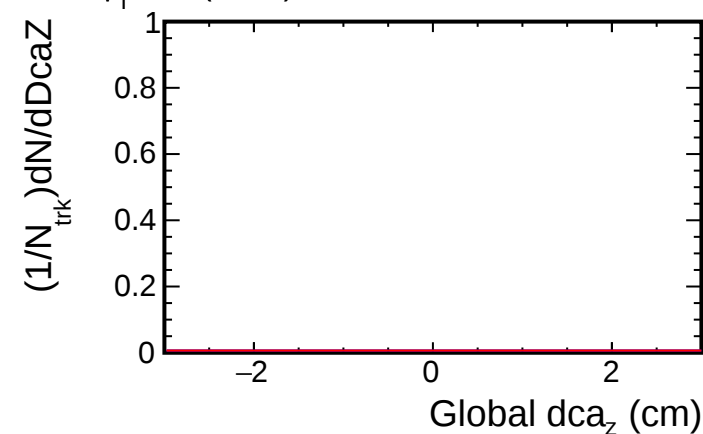
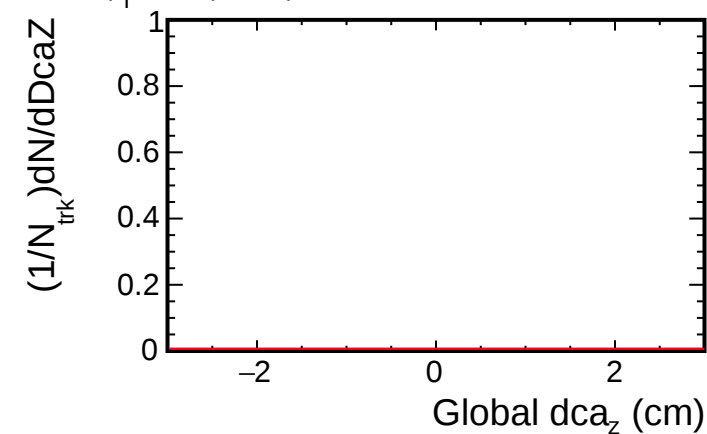
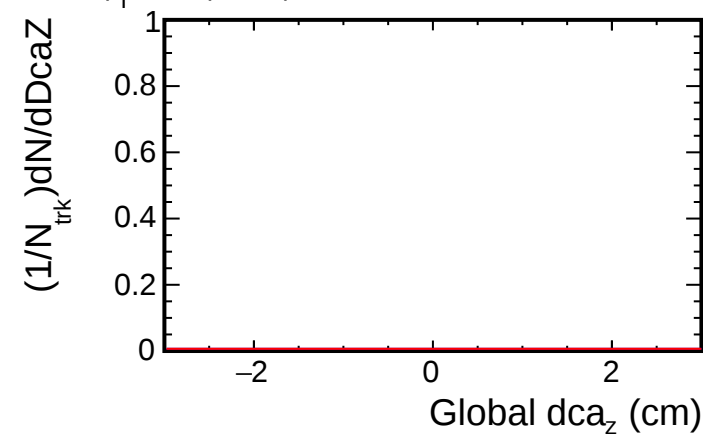
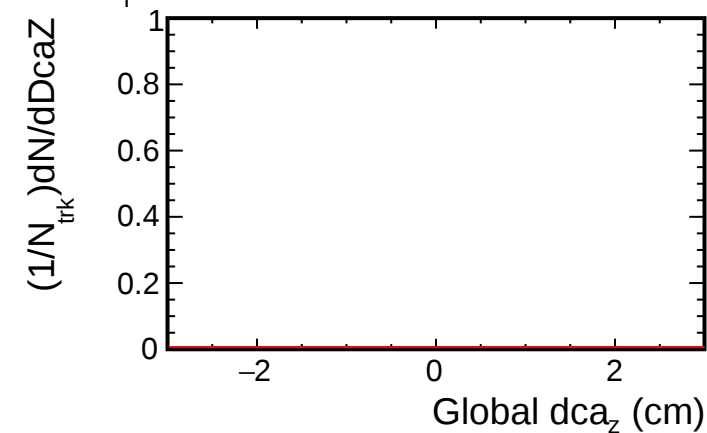
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{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)

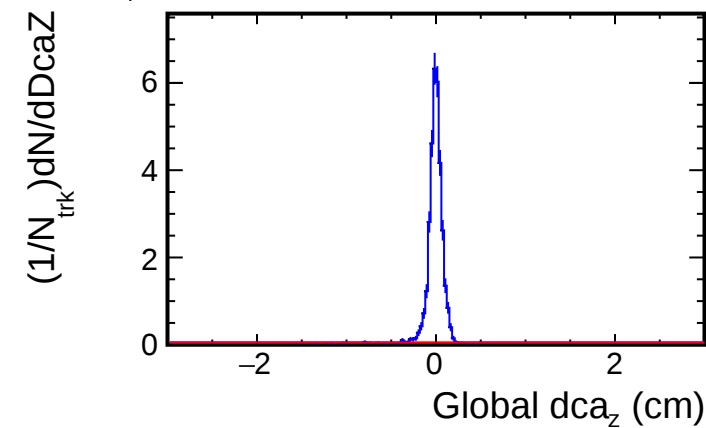
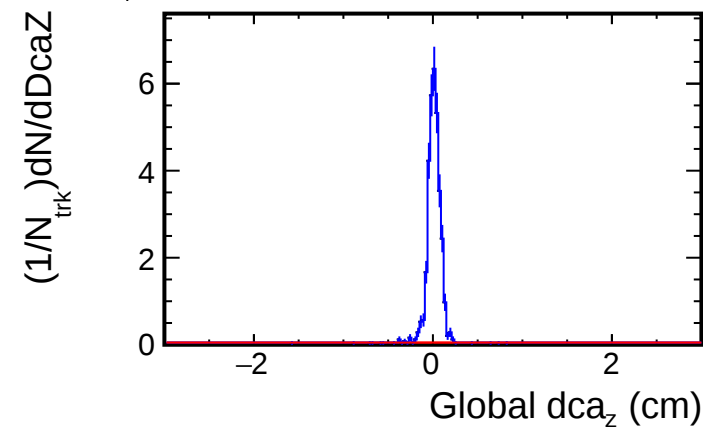
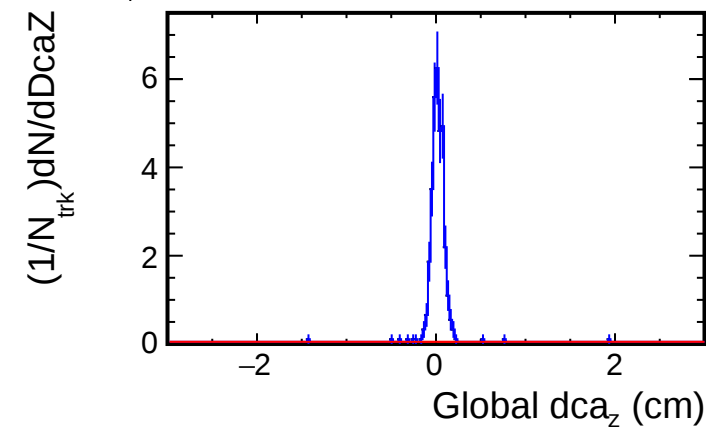
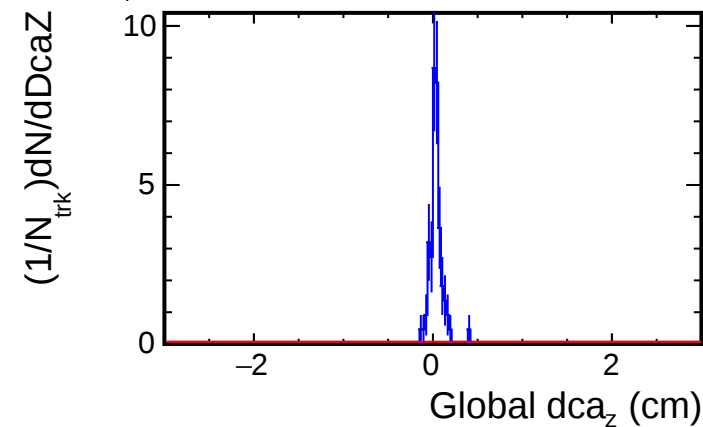
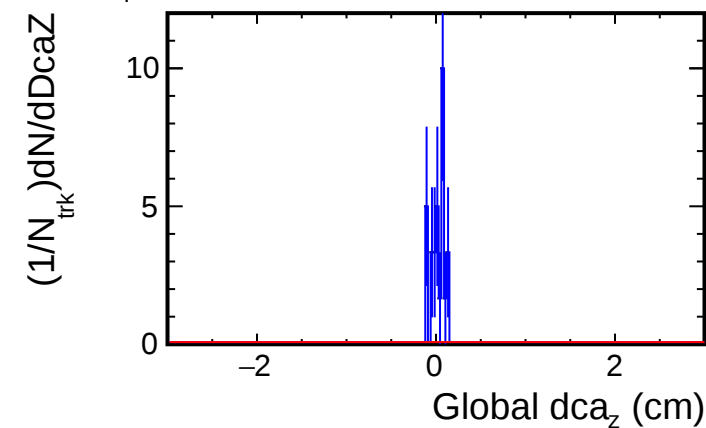
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices2, $1.0 < p_T < 1.5$ (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)

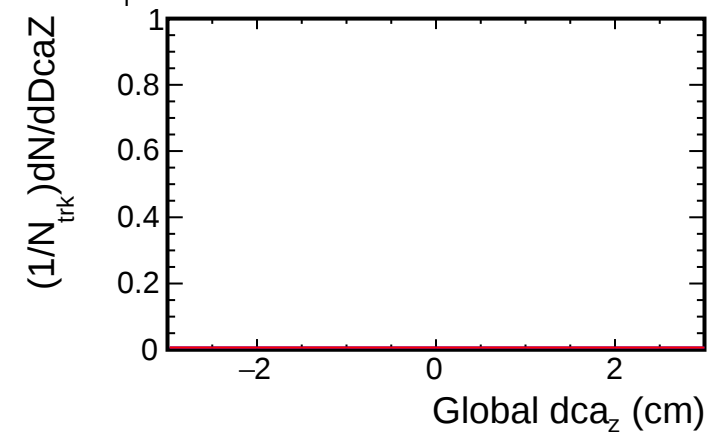
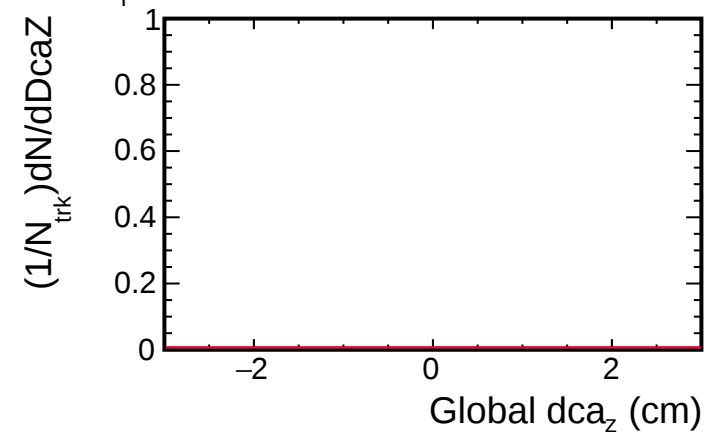
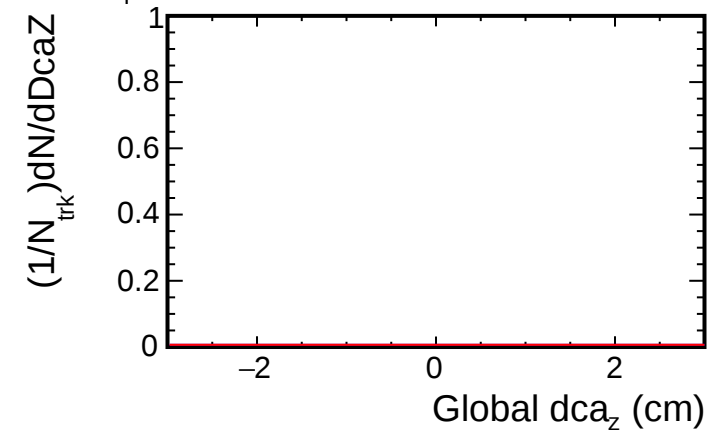
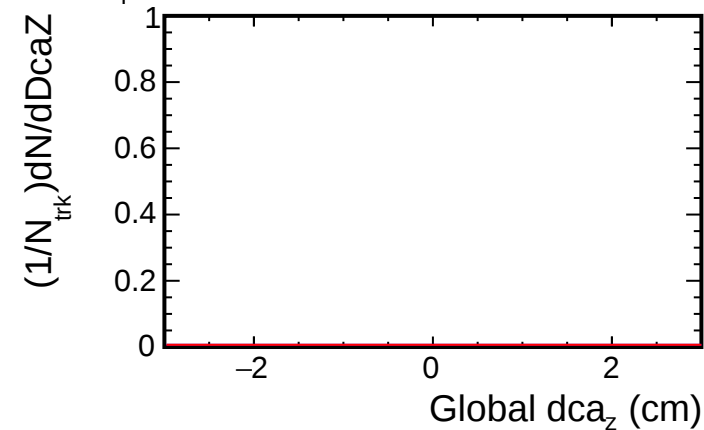
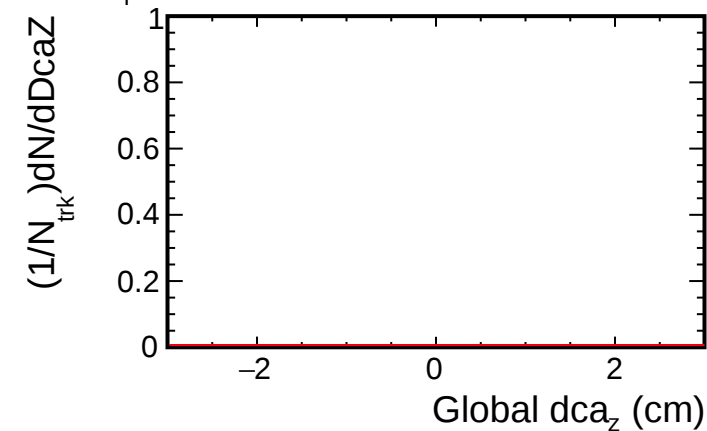
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices $1.8, 1.5 < p_T < 2.0$ (GeV/c) $1.6, 1.5 < p_T < 2.0$ (GeV/c) $1.4, 1.5 < p_T < 2.0$ (GeV/c) $1.2, 1.5 < p_T < 2.0$ (GeV/c) $1.0, 1.5 < p_T < 2.0$ (GeV/c)

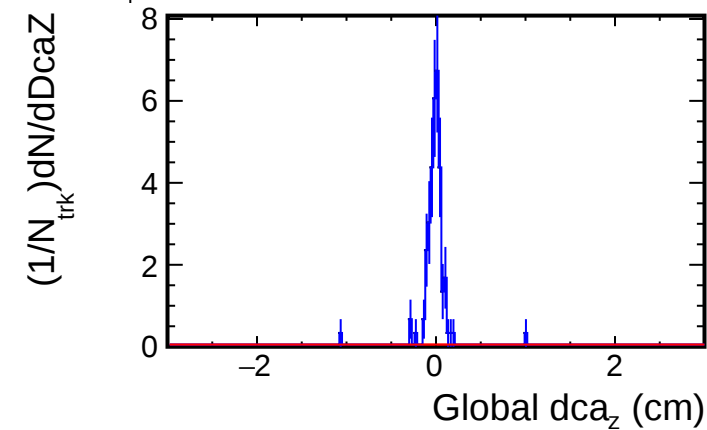
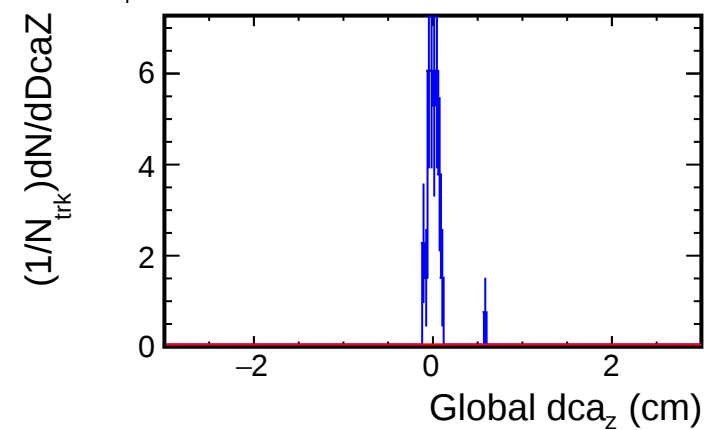
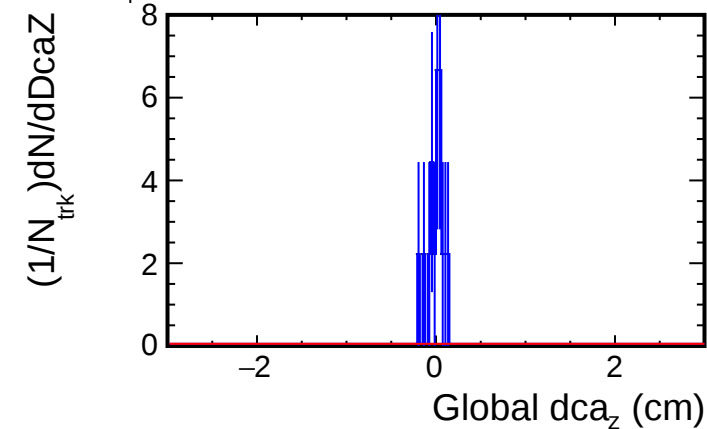
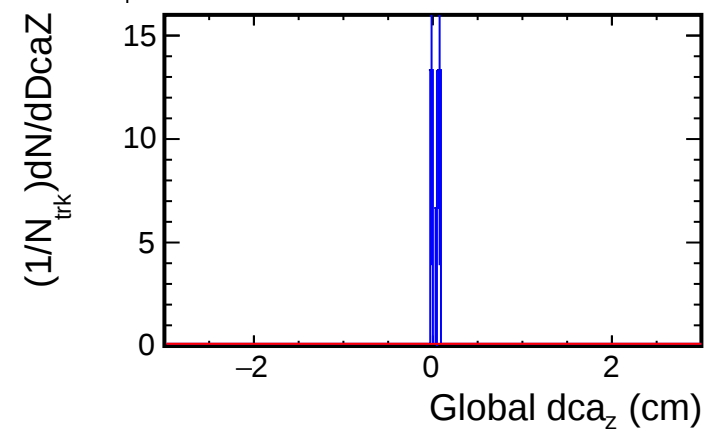
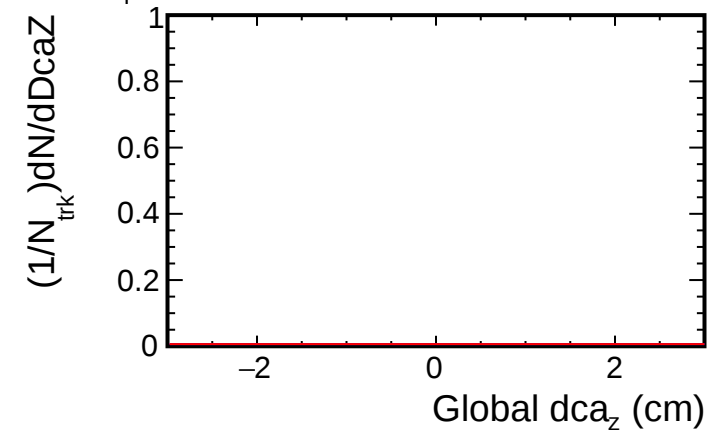
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices2, $1.5 < p_T < 2.0$ (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)

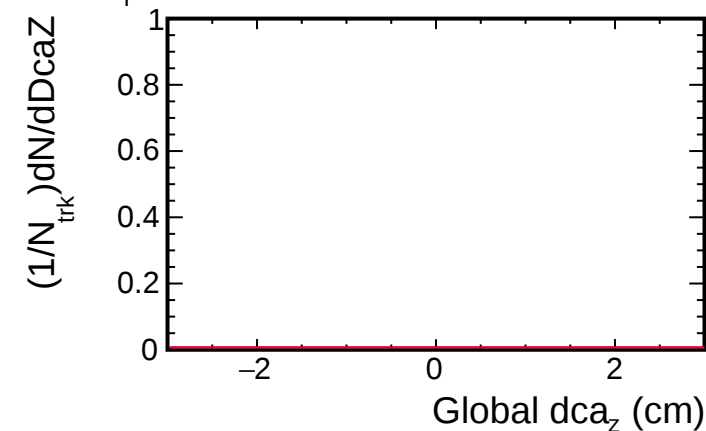
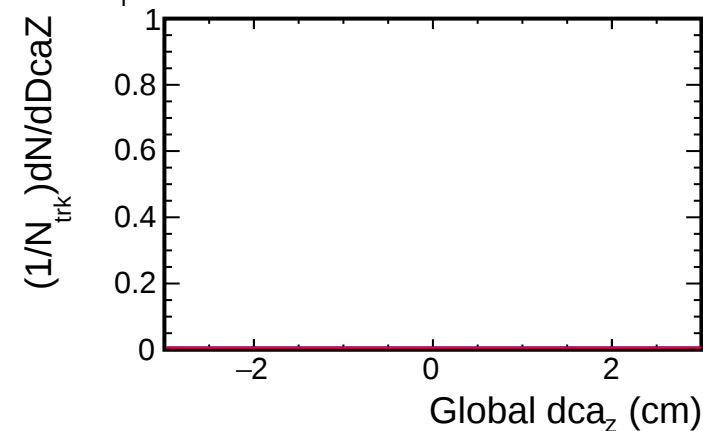
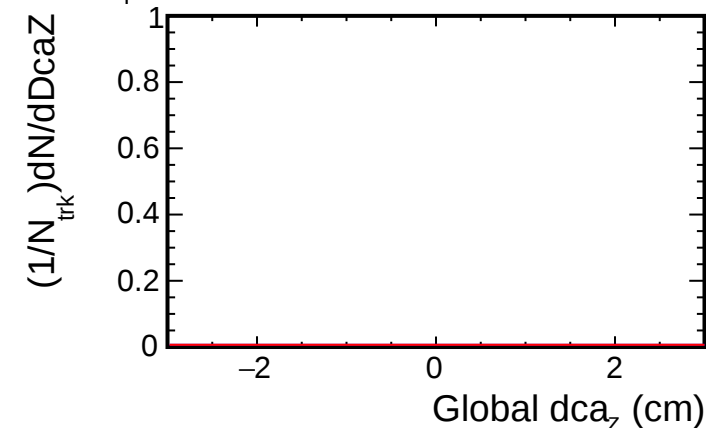
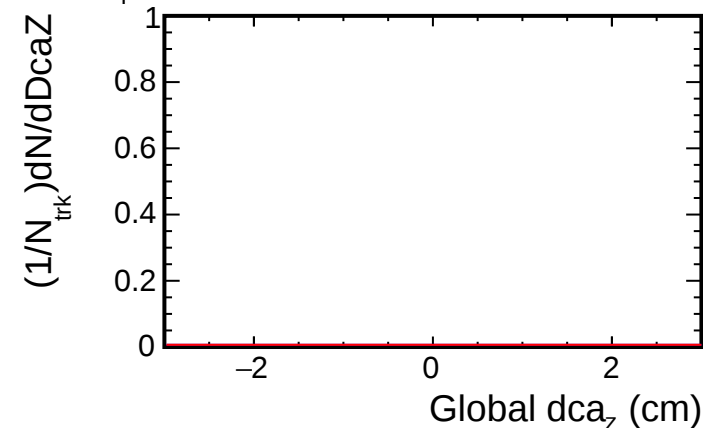
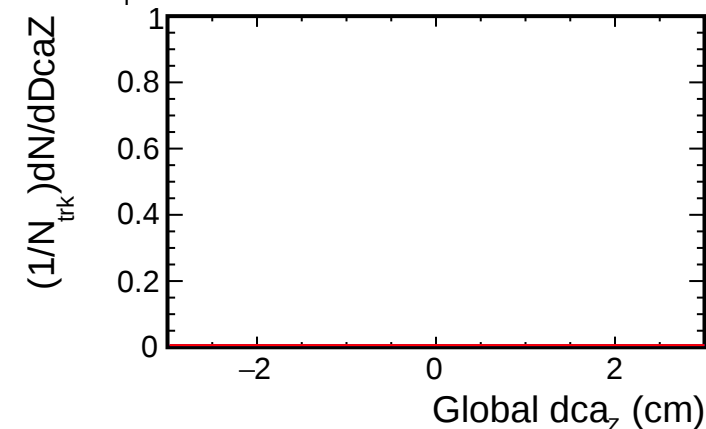
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{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)

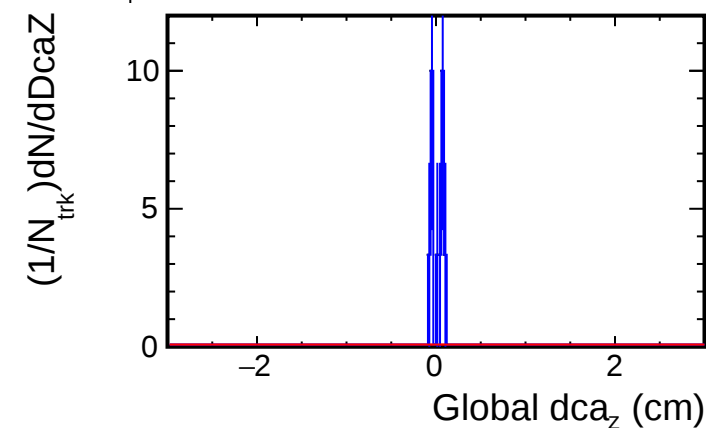
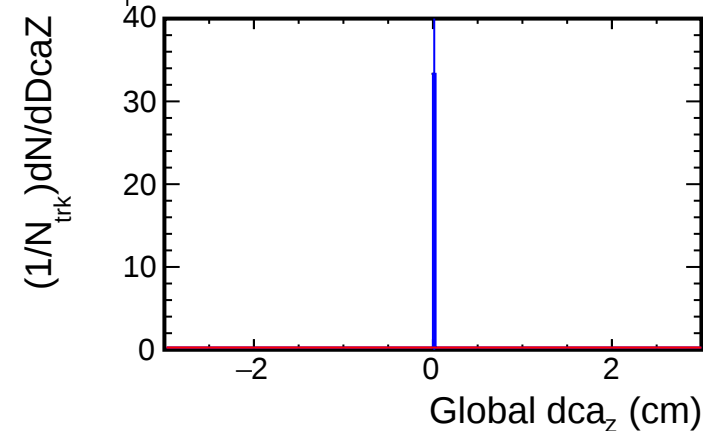
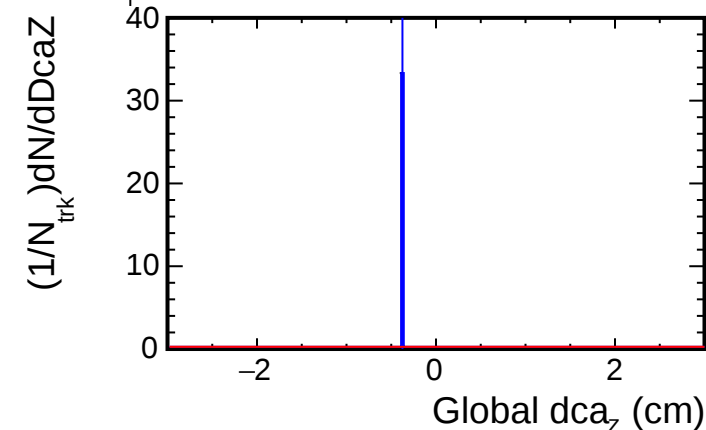
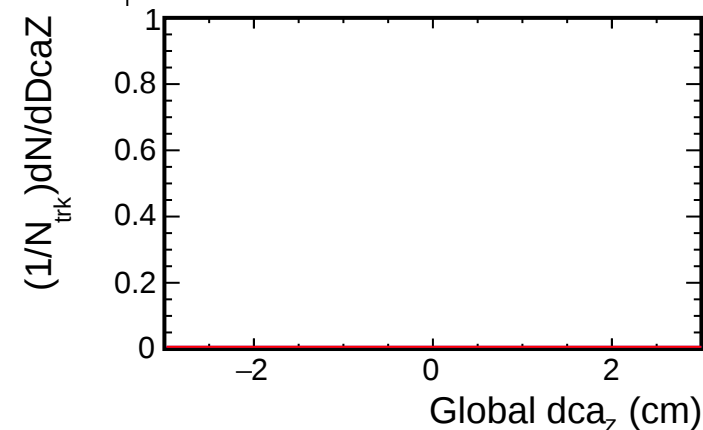
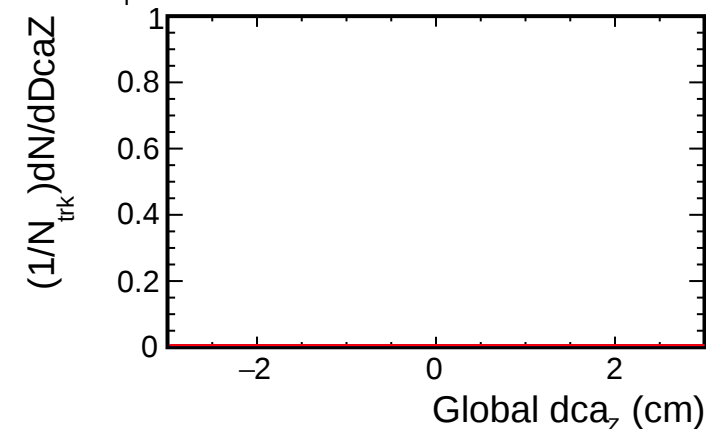
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{pi⁻}| < 2 TPC)

DcaZ distribution for (p_T , η) slices2, $2.0 < p_T < 2.5$ (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)

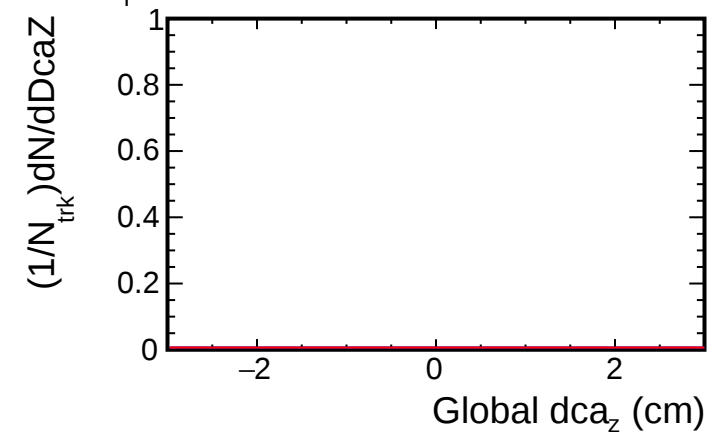
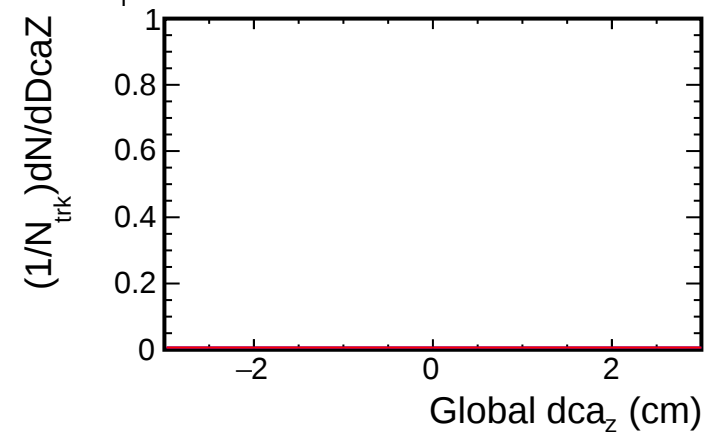
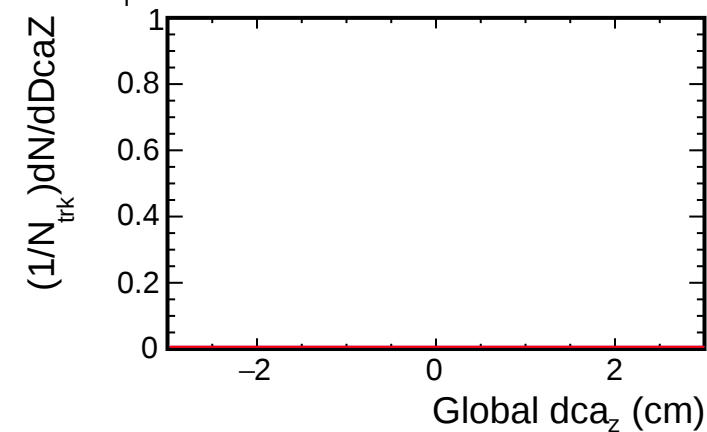
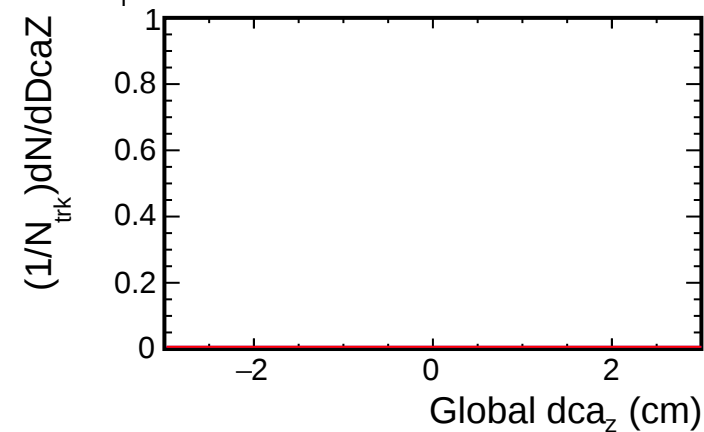
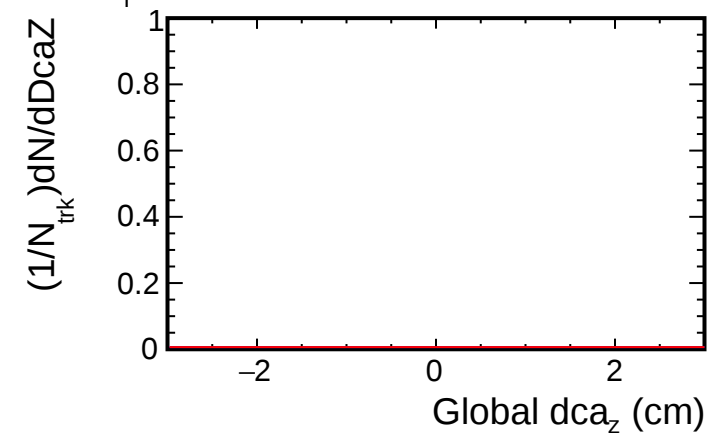
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{pi⁻}| < 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)

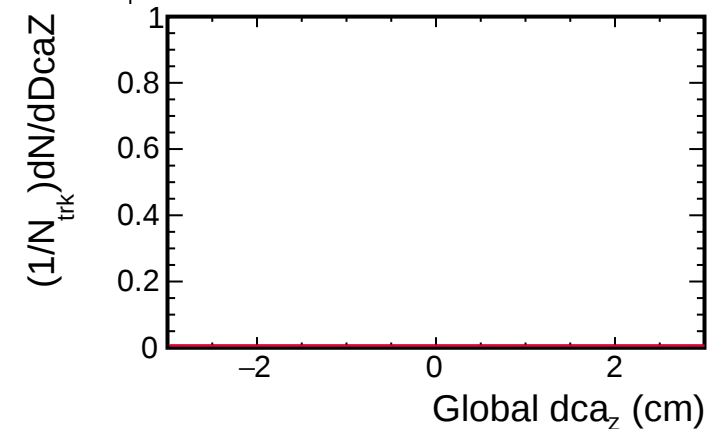
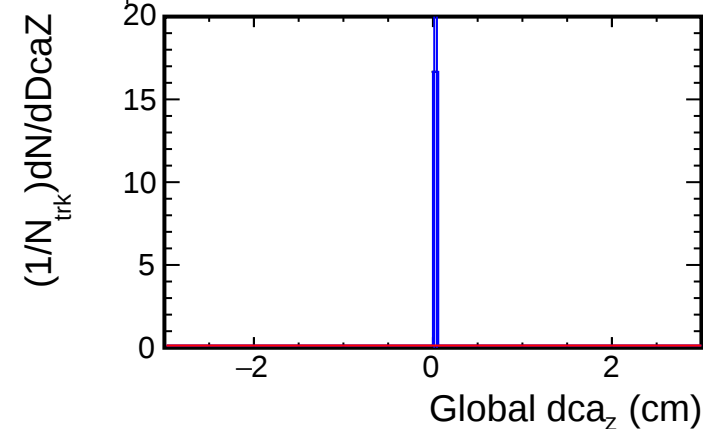
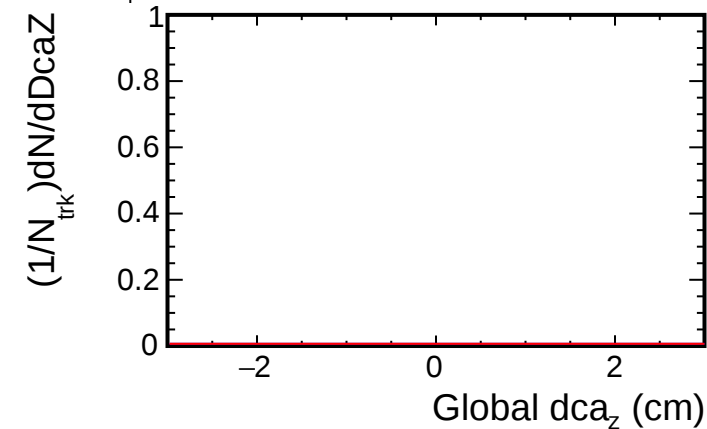
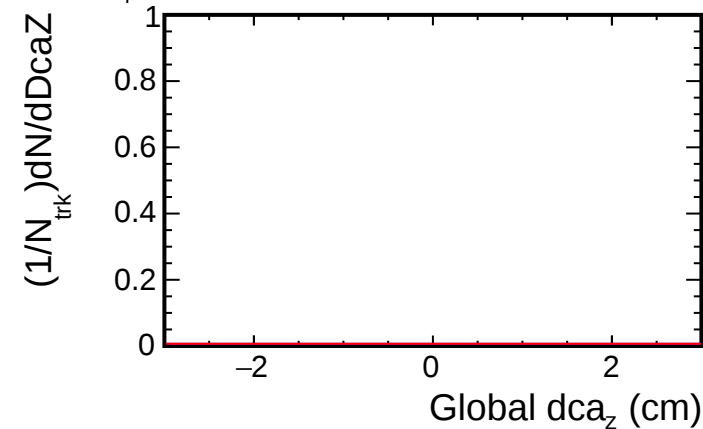
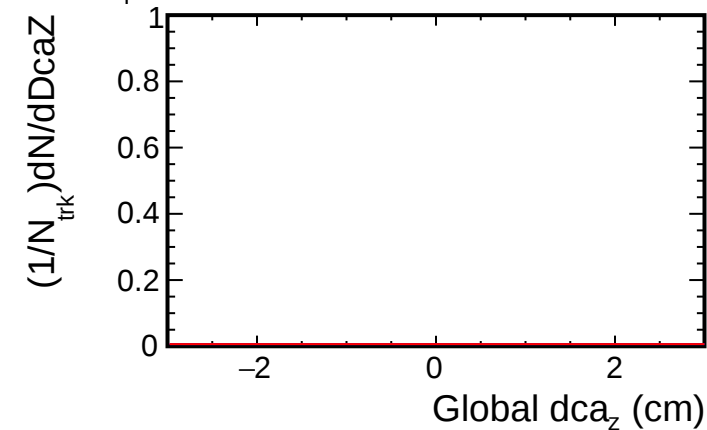
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{pi⁻}| < 2 TPC)

DcaZ distribution for (p_T , η) slices2, $2.5 < p_T < 3.0$ (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)

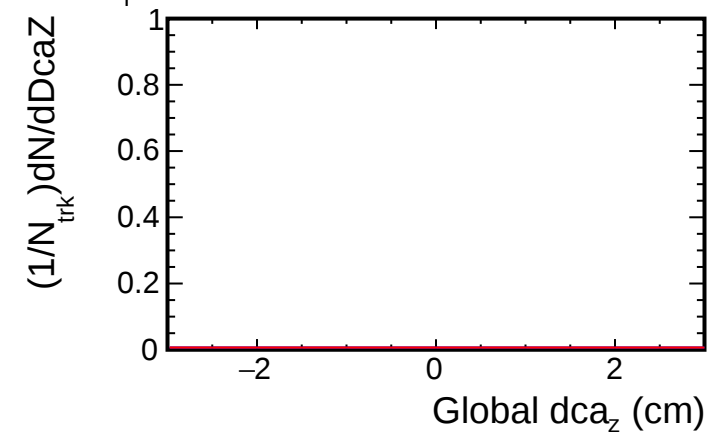
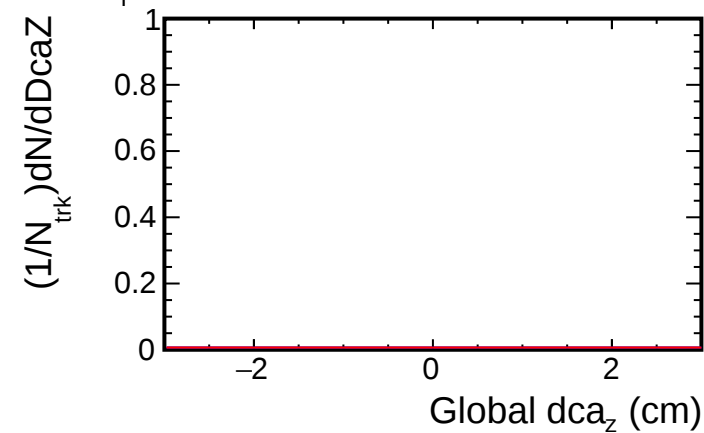
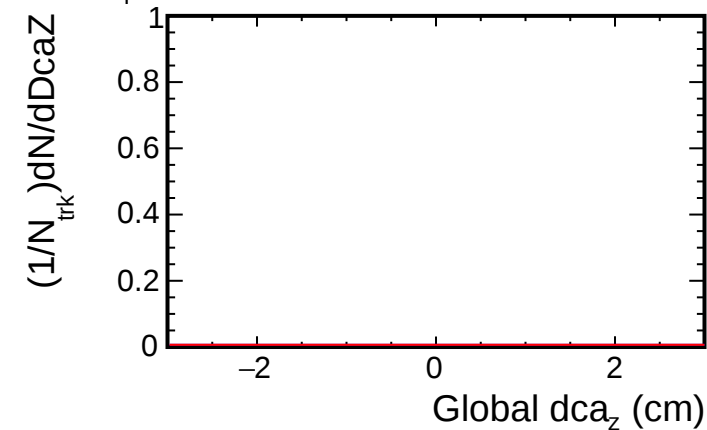
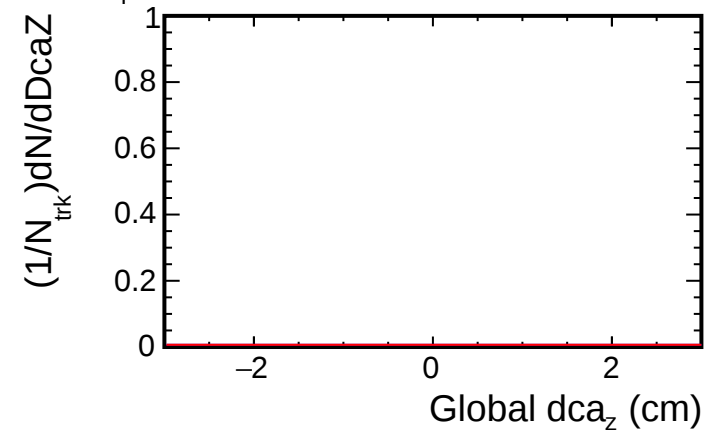
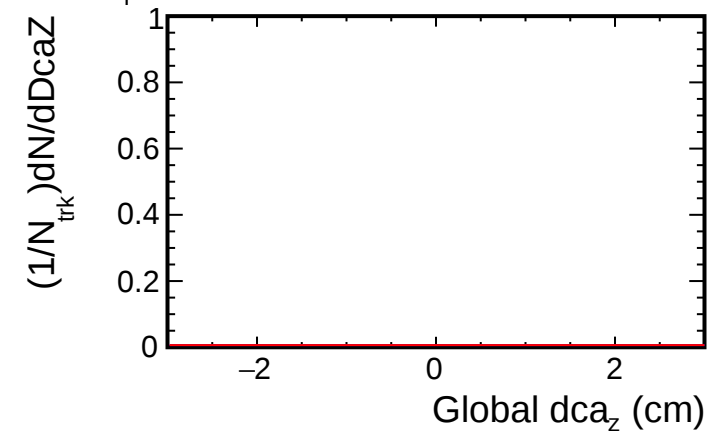
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{pi⁻}|<2 TPC)

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)

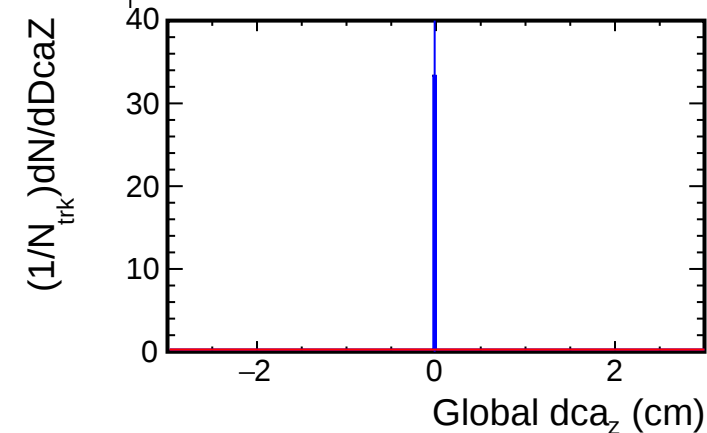
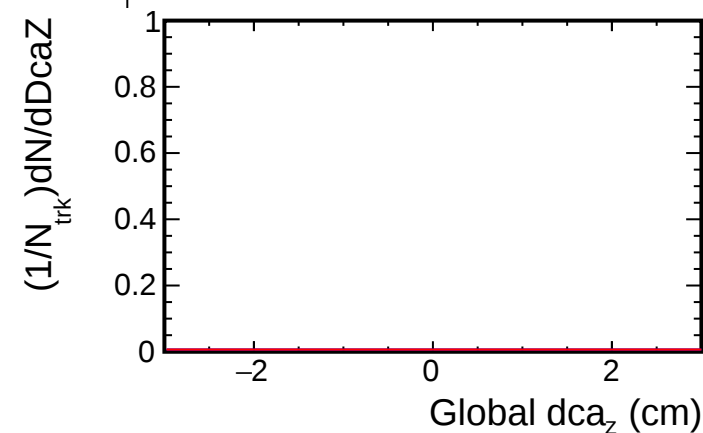
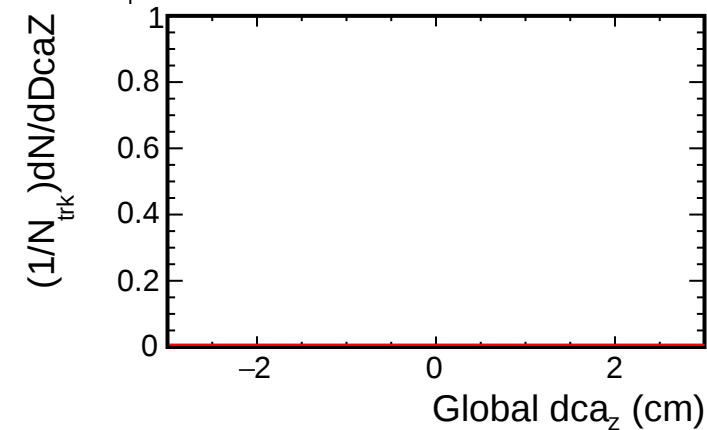
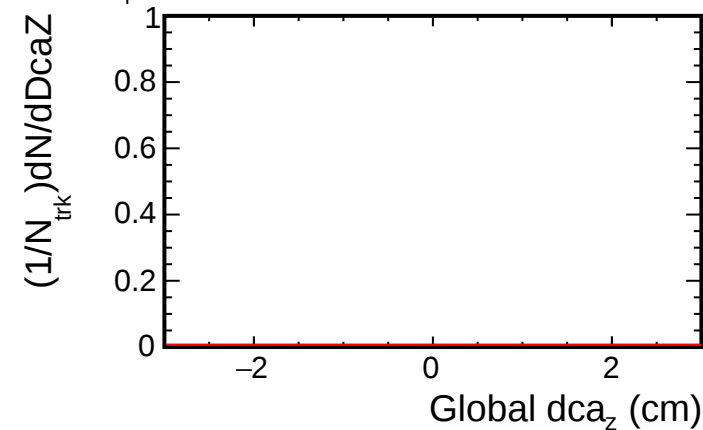
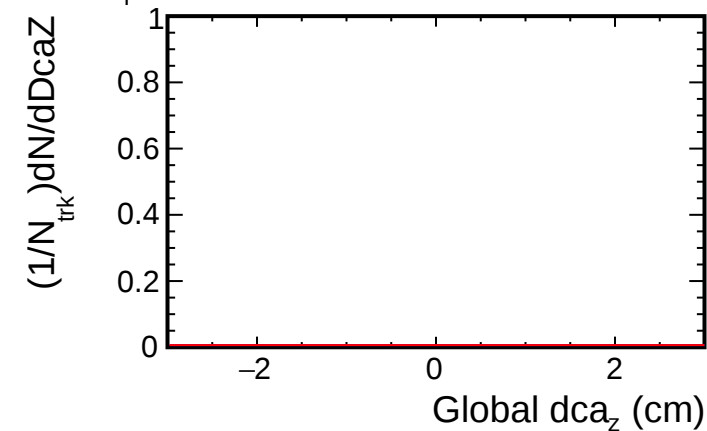
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices2, $3.0 < p_T < 3.5$ (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)

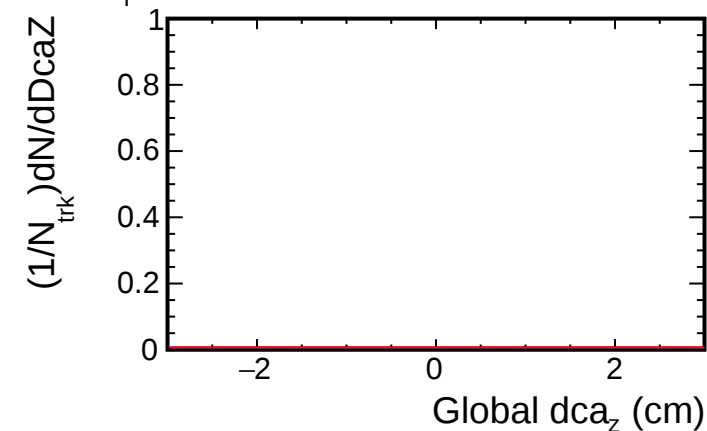
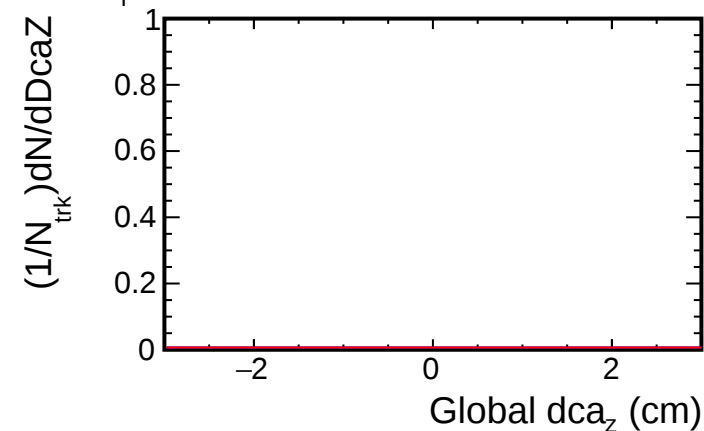
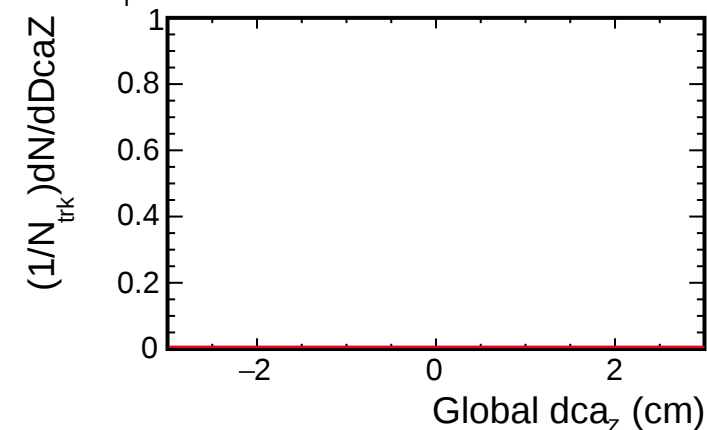
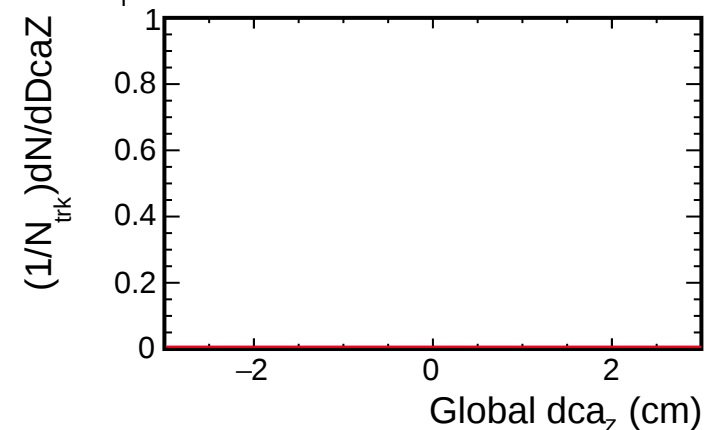
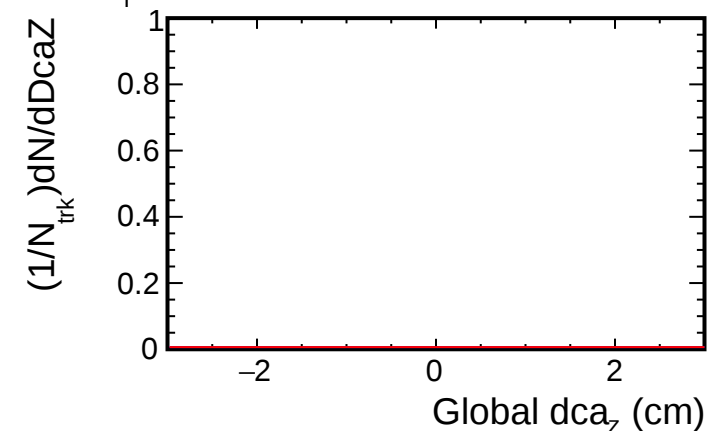
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{pi⁻}| < 2 TPC)

DcaZ distribution for (p_T , η) slices1.8, $3.5 < p_T < 4.0$ (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)

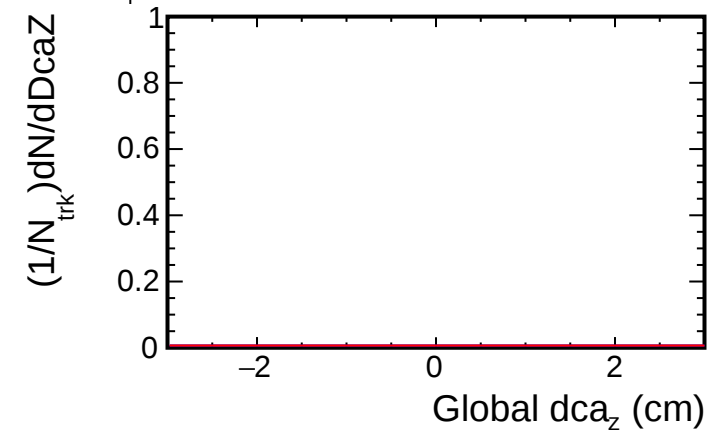
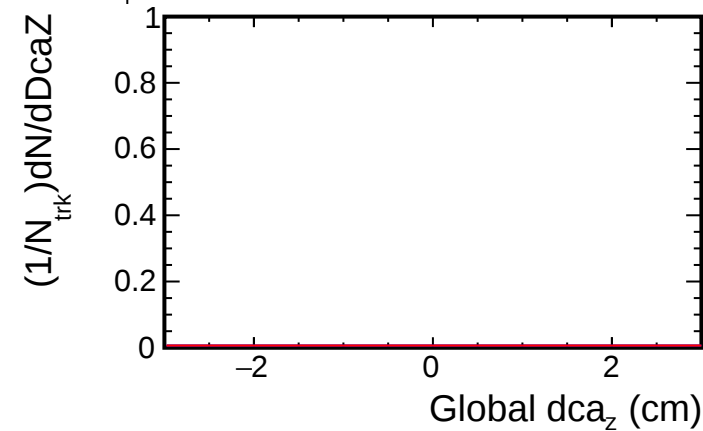
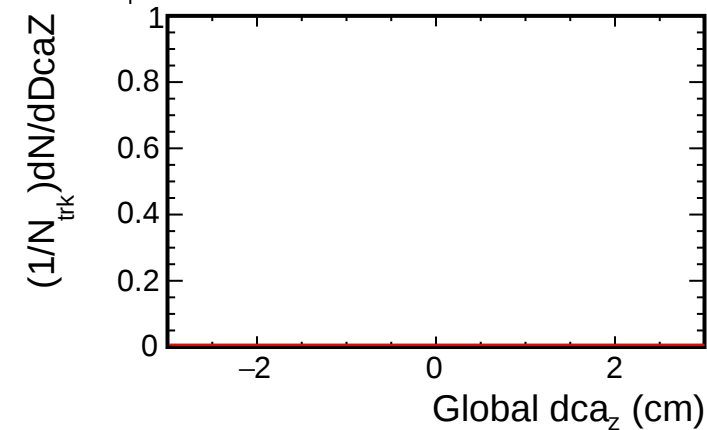
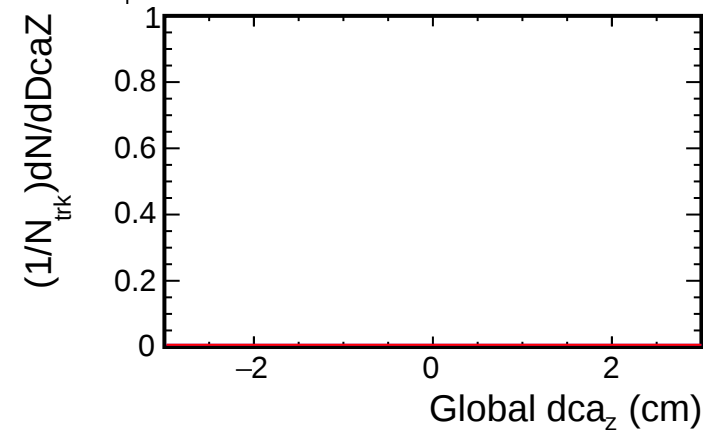
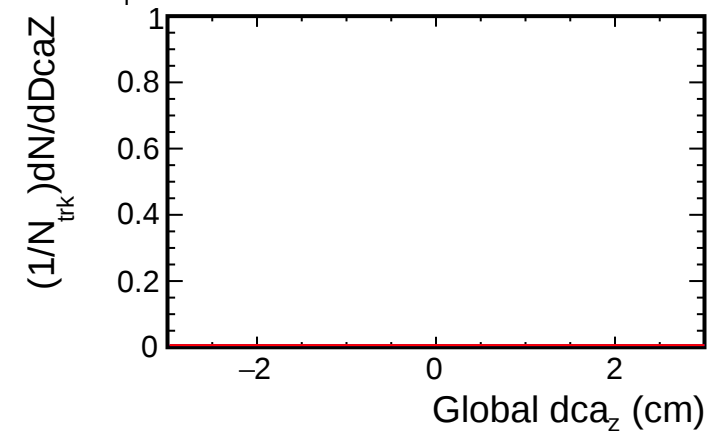
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices2, $3.5 < p_T < 4.0$ (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)

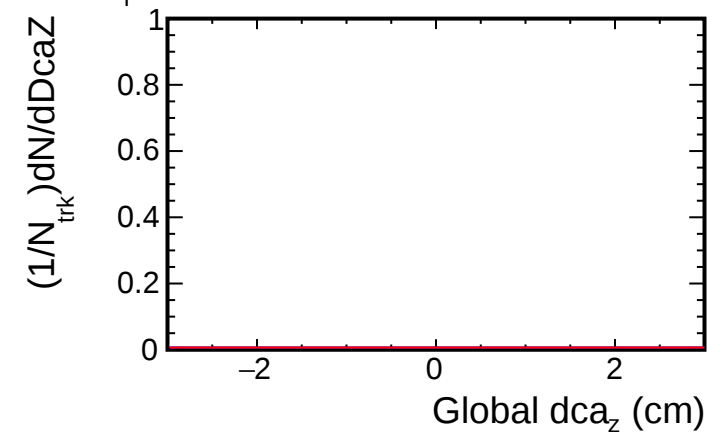
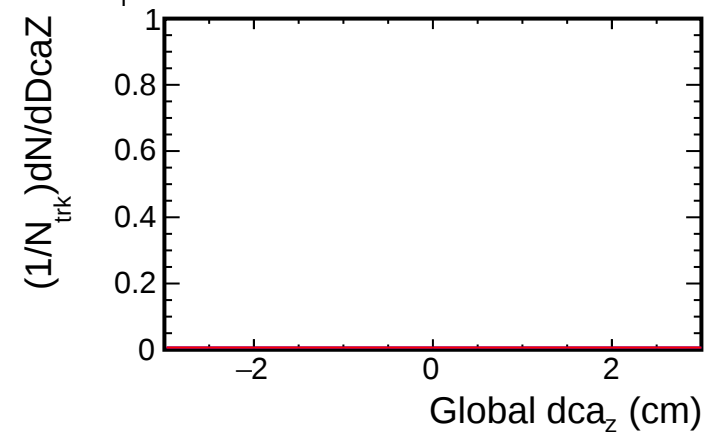
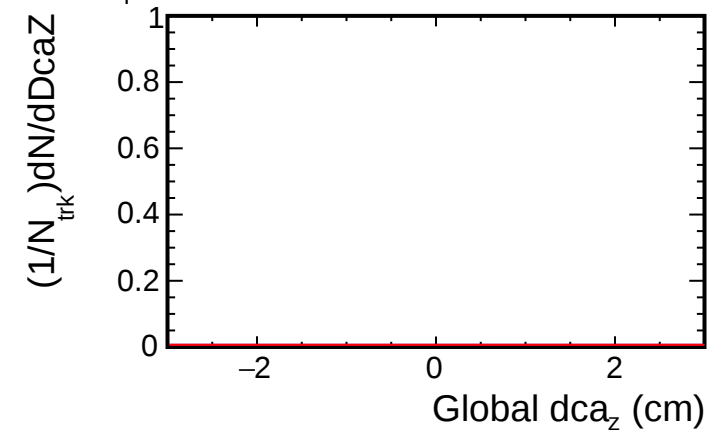
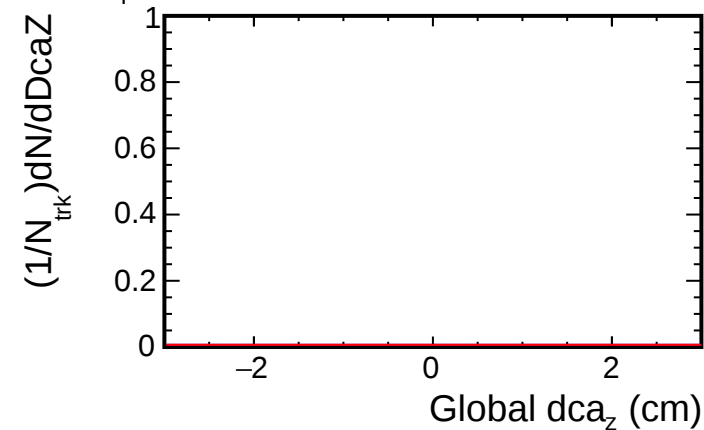
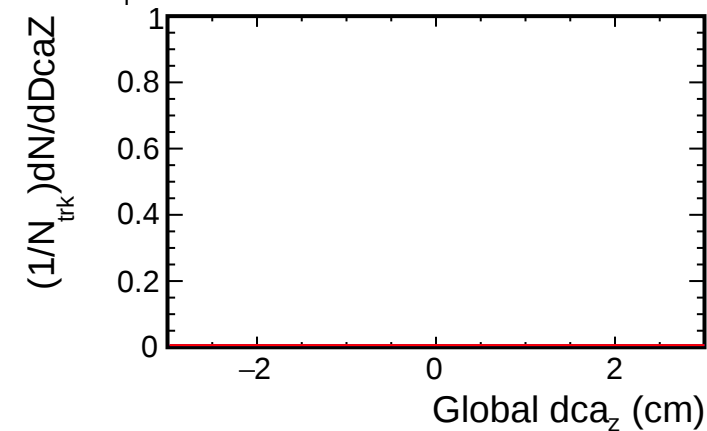
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{pi⁻}|<2 TPC)

DcaZ distribution for (p_T , η) slices $1.8, 4.0 < p_T < 4.5$ (GeV/c) $1.6, 4.0 < p_T < 4.5$ (GeV/c) $1.4, 4.0 < p_T < 4.5$ (GeV/c) $1.2, 4.0 < p_T < 4.5$ (GeV/c) $1.0, 4.0 < p_T < 4.5$ (GeV/c)

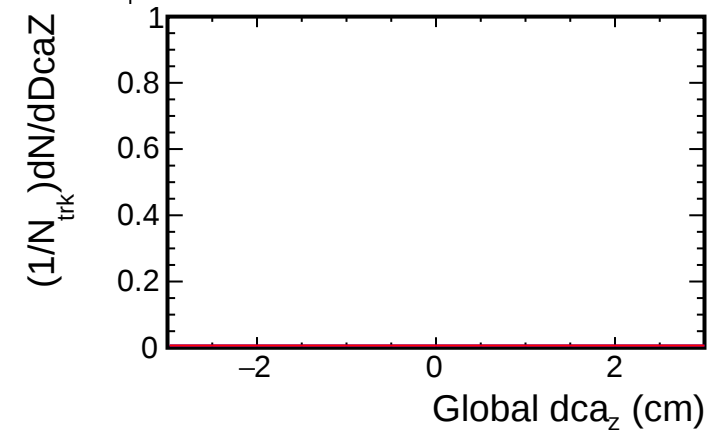
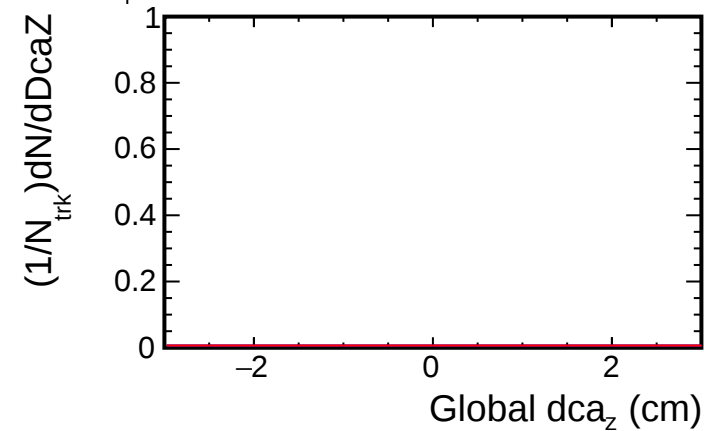
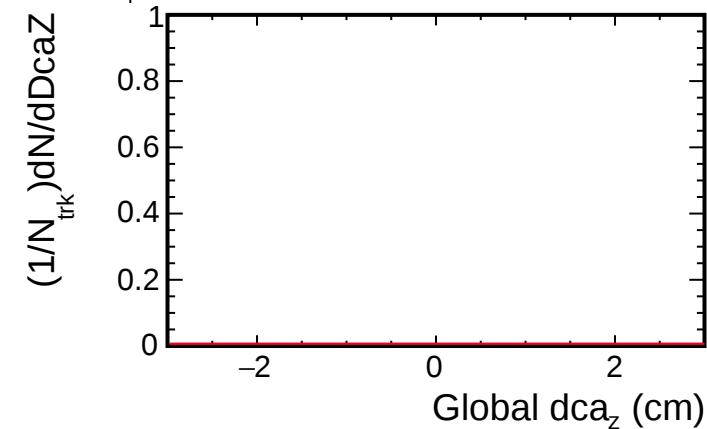
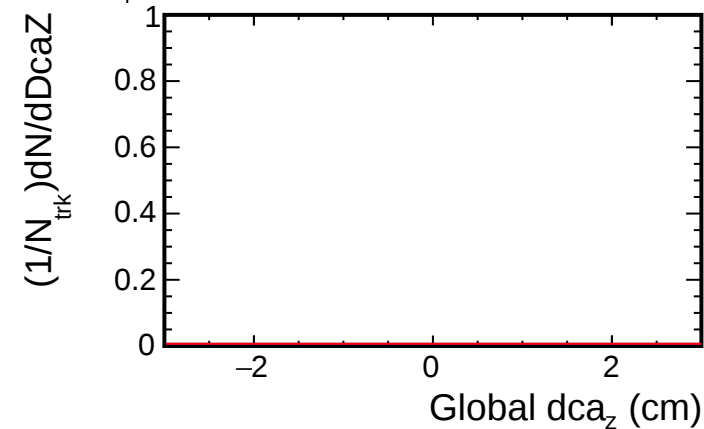
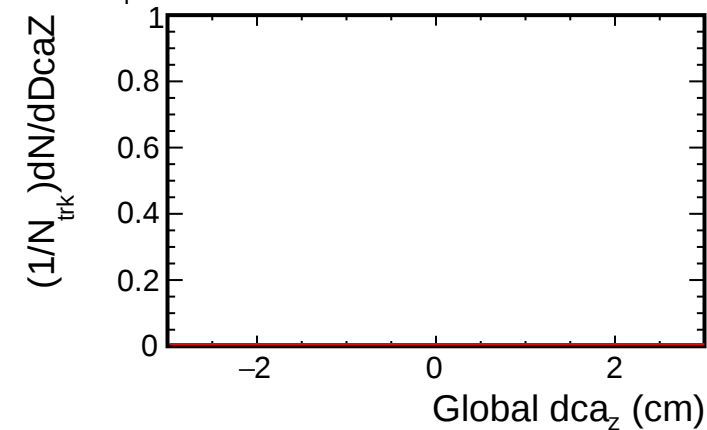
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices2, $4.0 < p_T < 4.5$ (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)

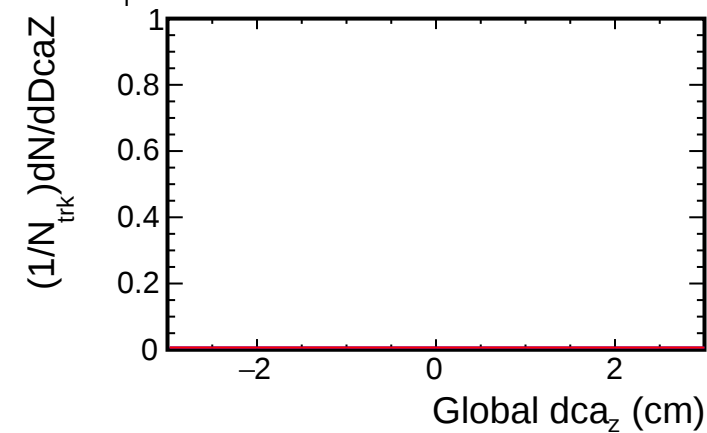
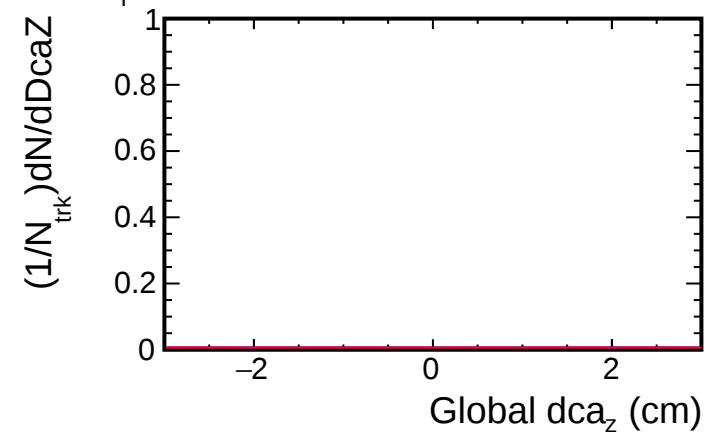
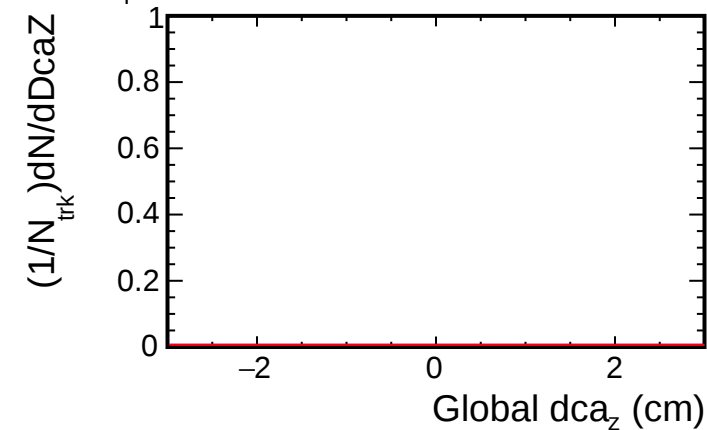
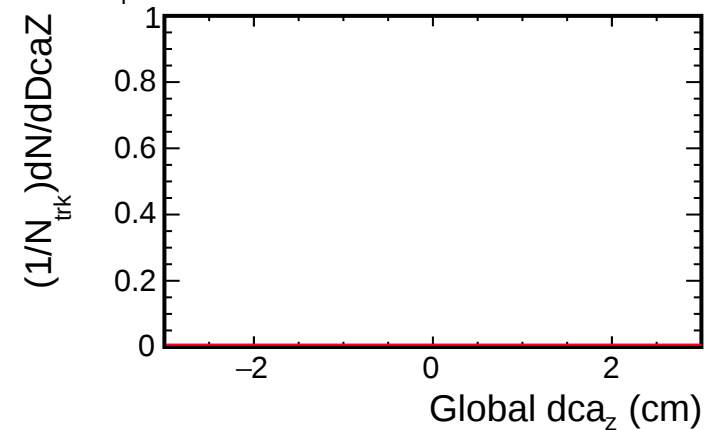
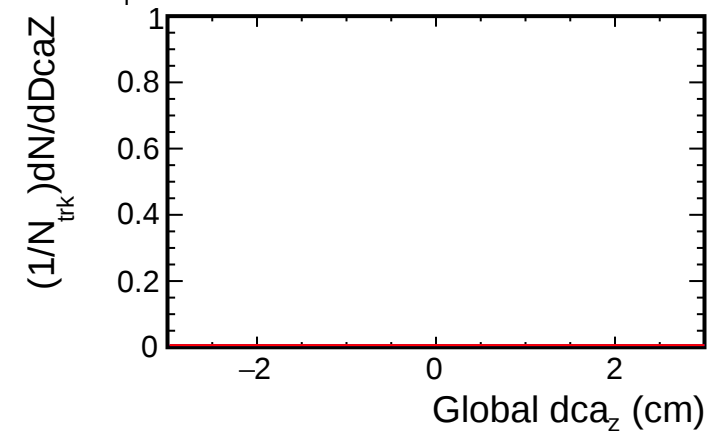
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{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)

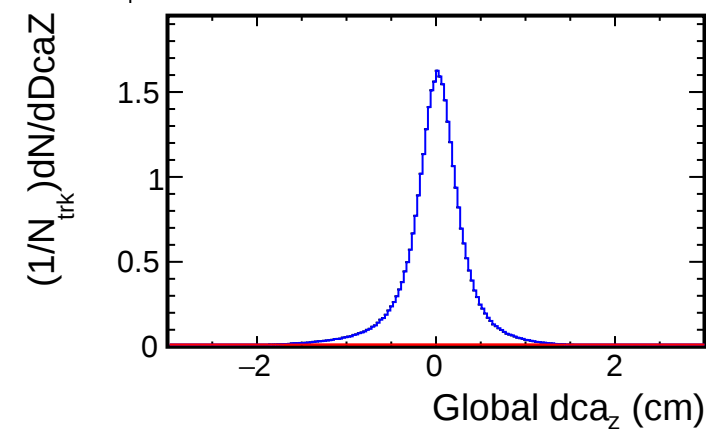
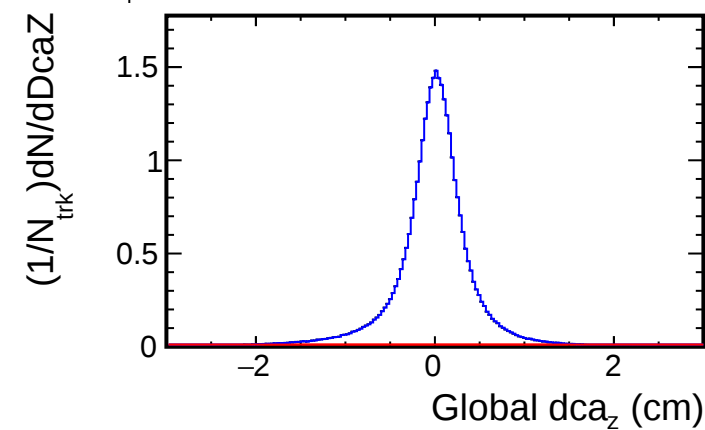
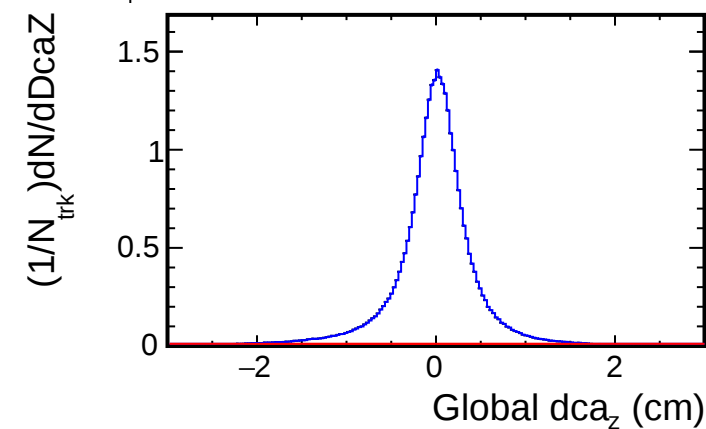
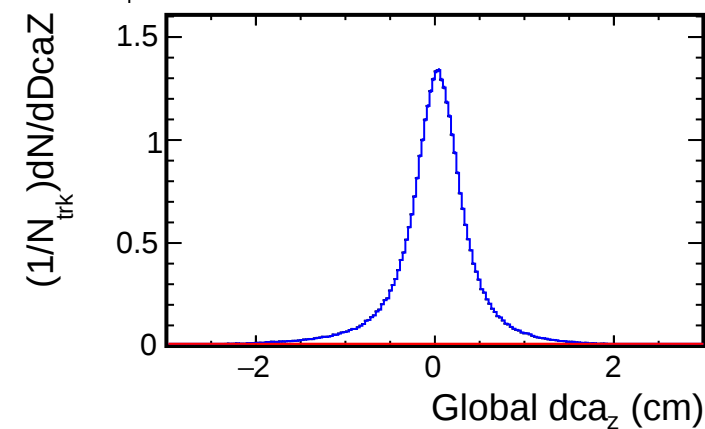
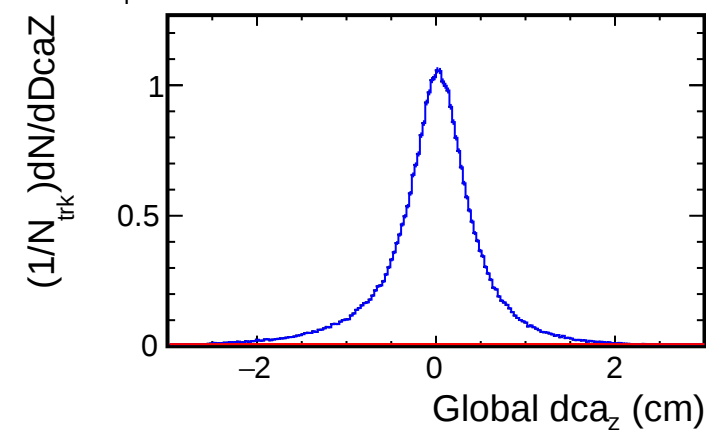
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices2, $4.5 < p_T < 5.0$ (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 pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{pi-}| < 2 TPC)

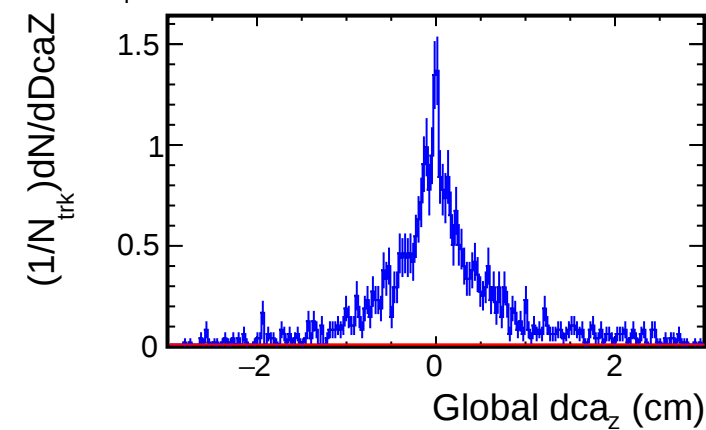
DcaZ distribution for (p_T , η) slices $1.8, 0.1 < p_T < 0.5$ (GeV/c) $1.6, 0.1 < p_T < 0.5$ (GeV/c) $1.4, 0.1 < p_T < 0.5$ (GeV/c) $1.2, 0.1 < p_T < 0.5$ (GeV/c) $1.0, 0.1 < p_T < 0.5$ (GeV/c)

— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

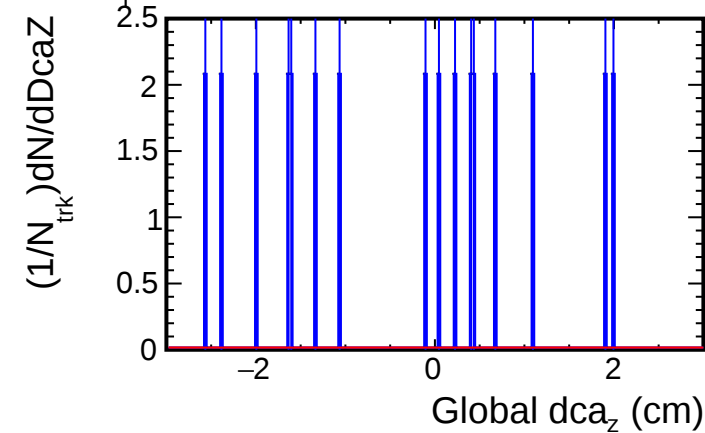
— pi+
(PRIMARY, |n σ_{pi+}| < 2 TPC)

DcaZ distribution for (p_T , η) slices

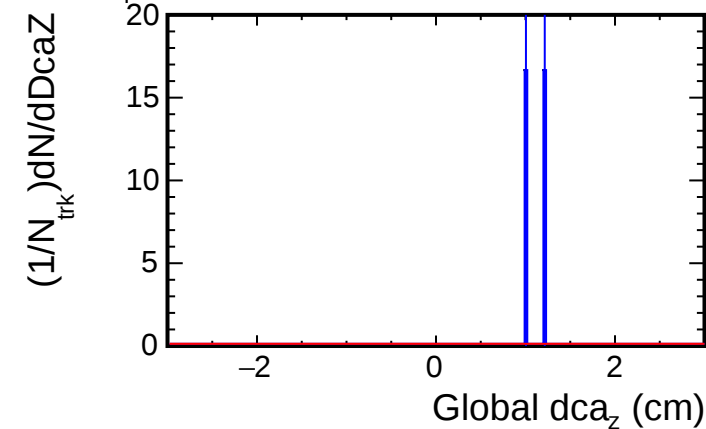
2, $0.1 < p_T < 0.5$ (GeV/c)



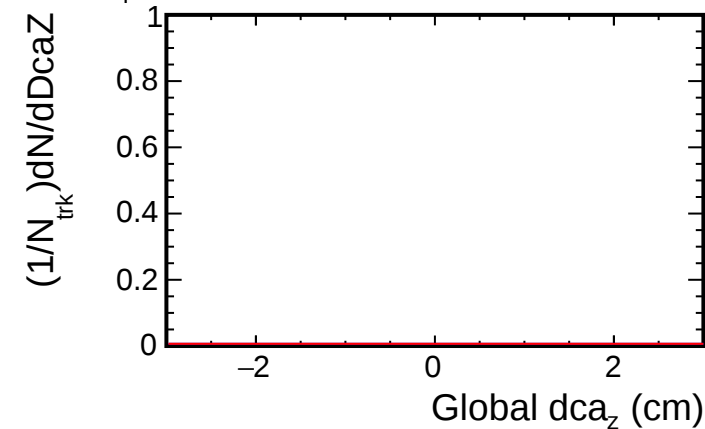
4, $0.1 < p_T < 0.5$ (GeV/c)



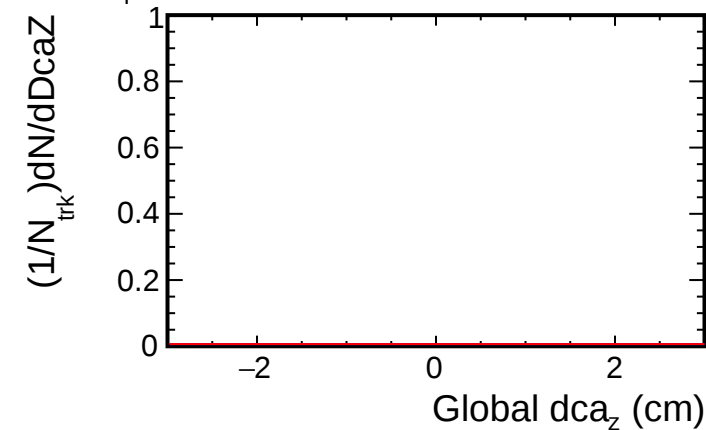
6, $0.1 < p_T < 0.5$ (GeV/c)



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



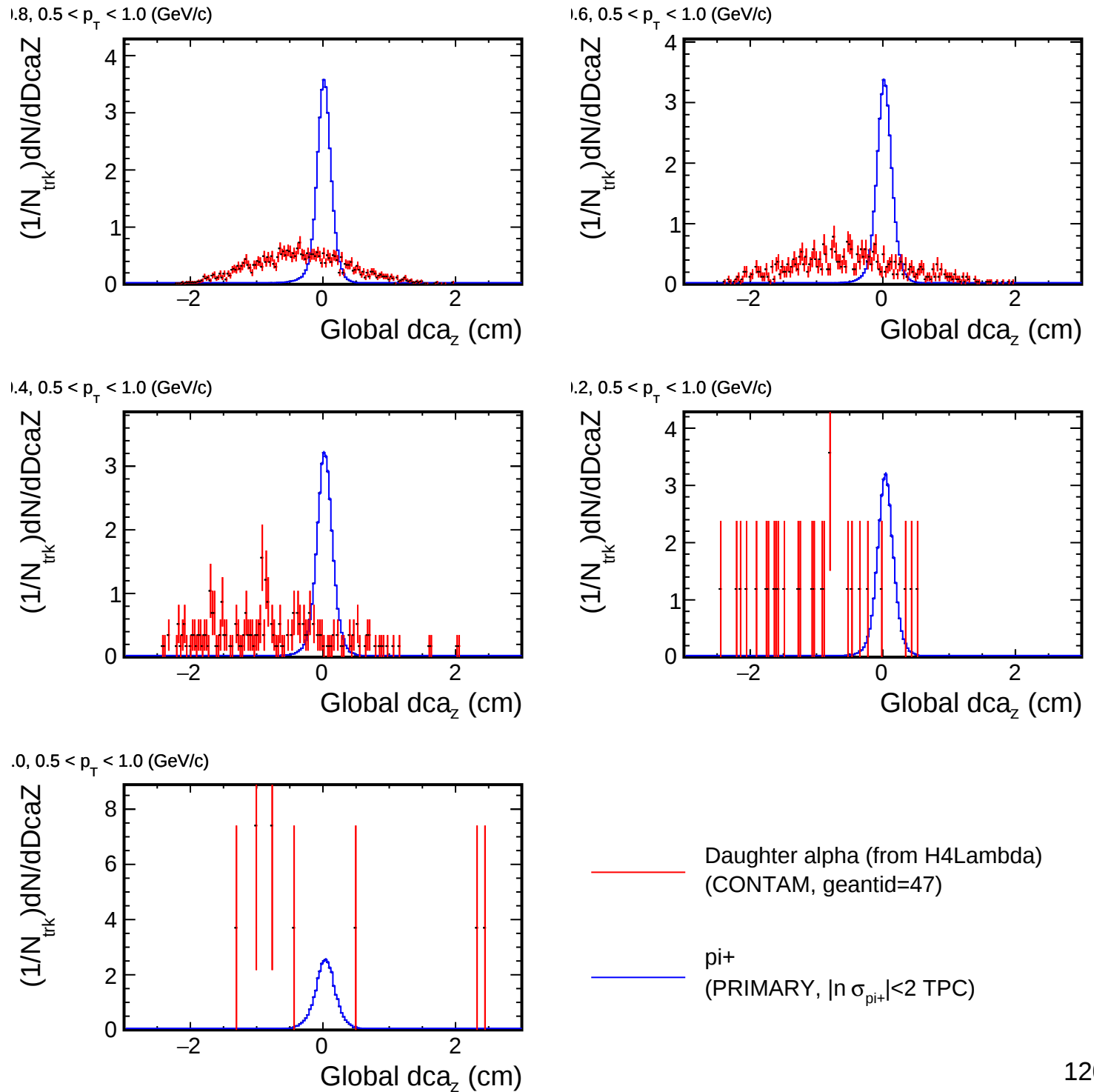
0, $0.1 < p_T < 0.5$ (GeV/c)

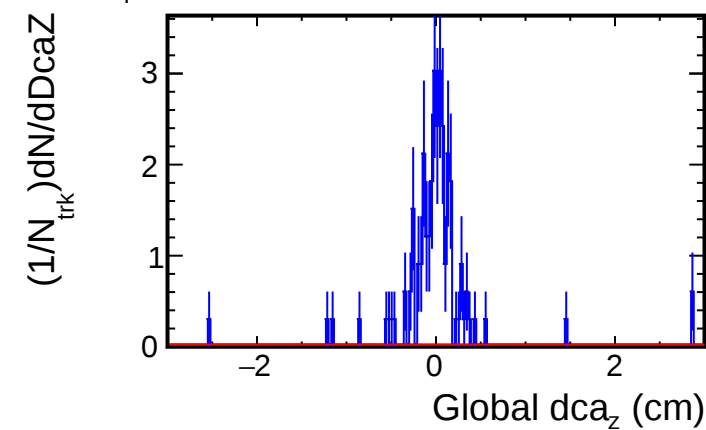
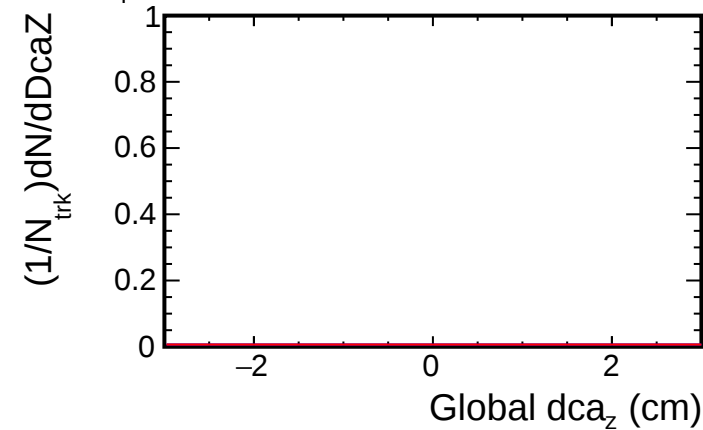
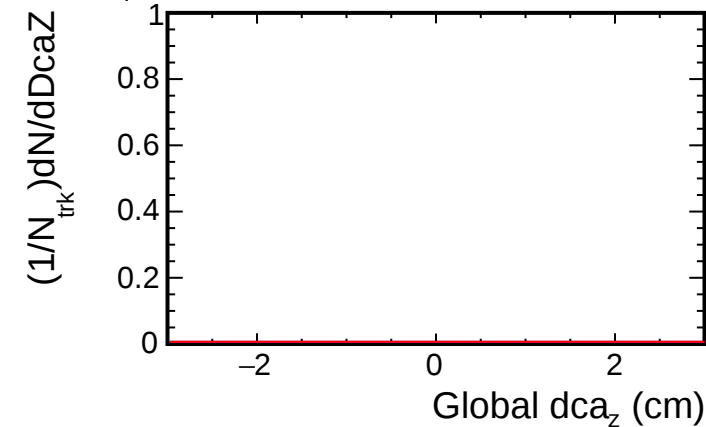
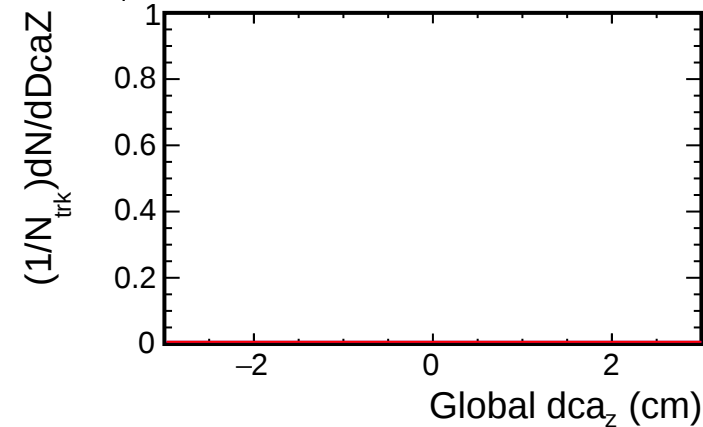
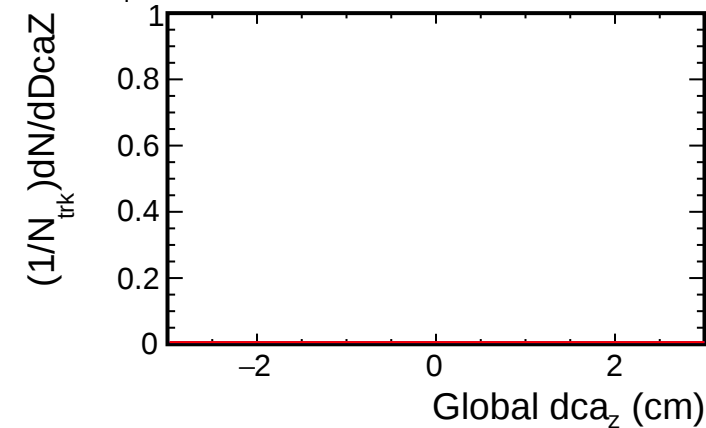


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

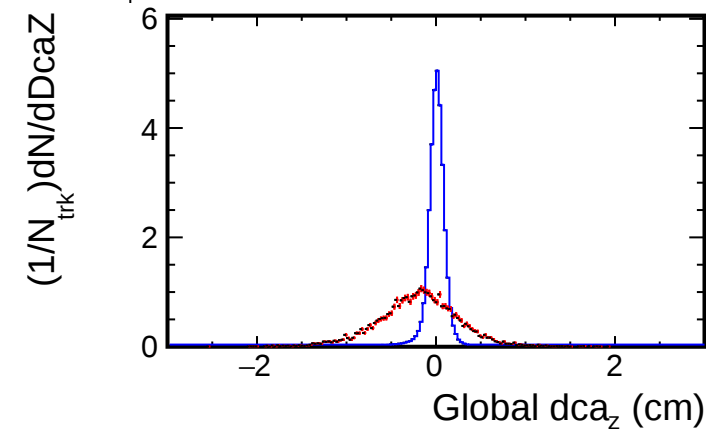
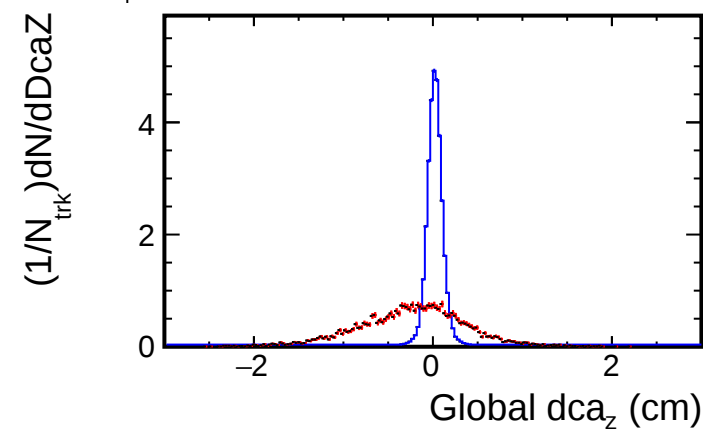
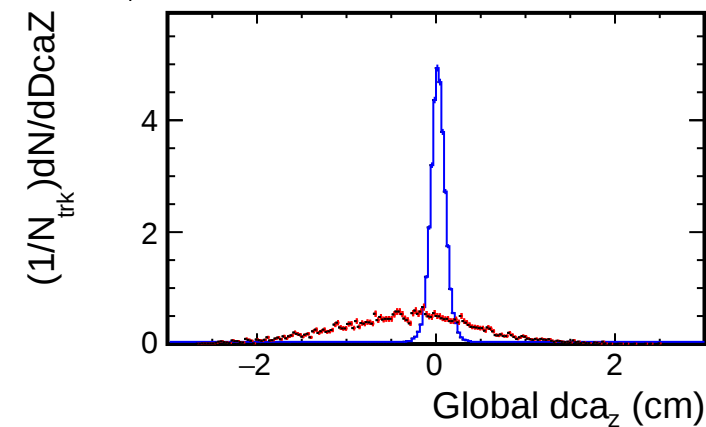
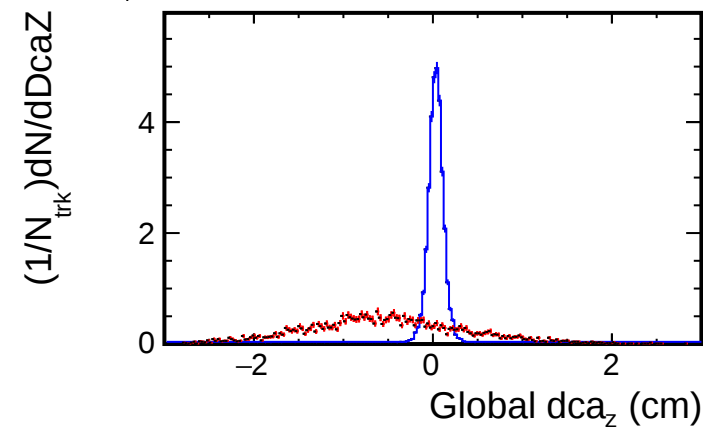
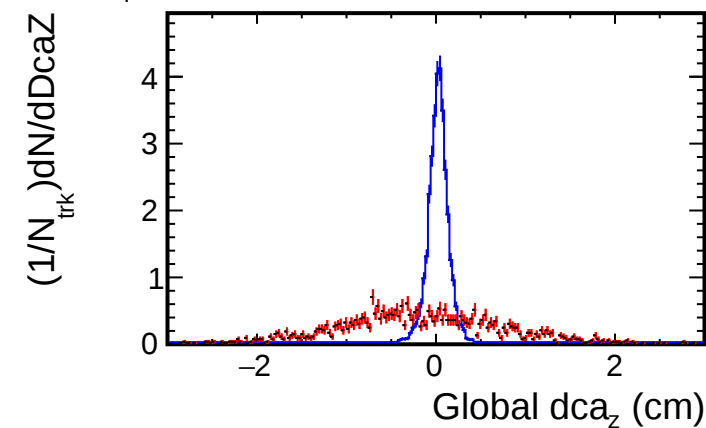
DcaZ distribution for (p_T , η) slices



DcaZ distribution for (p_T , η) slices2, $0.5 < p_T < 1.0$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

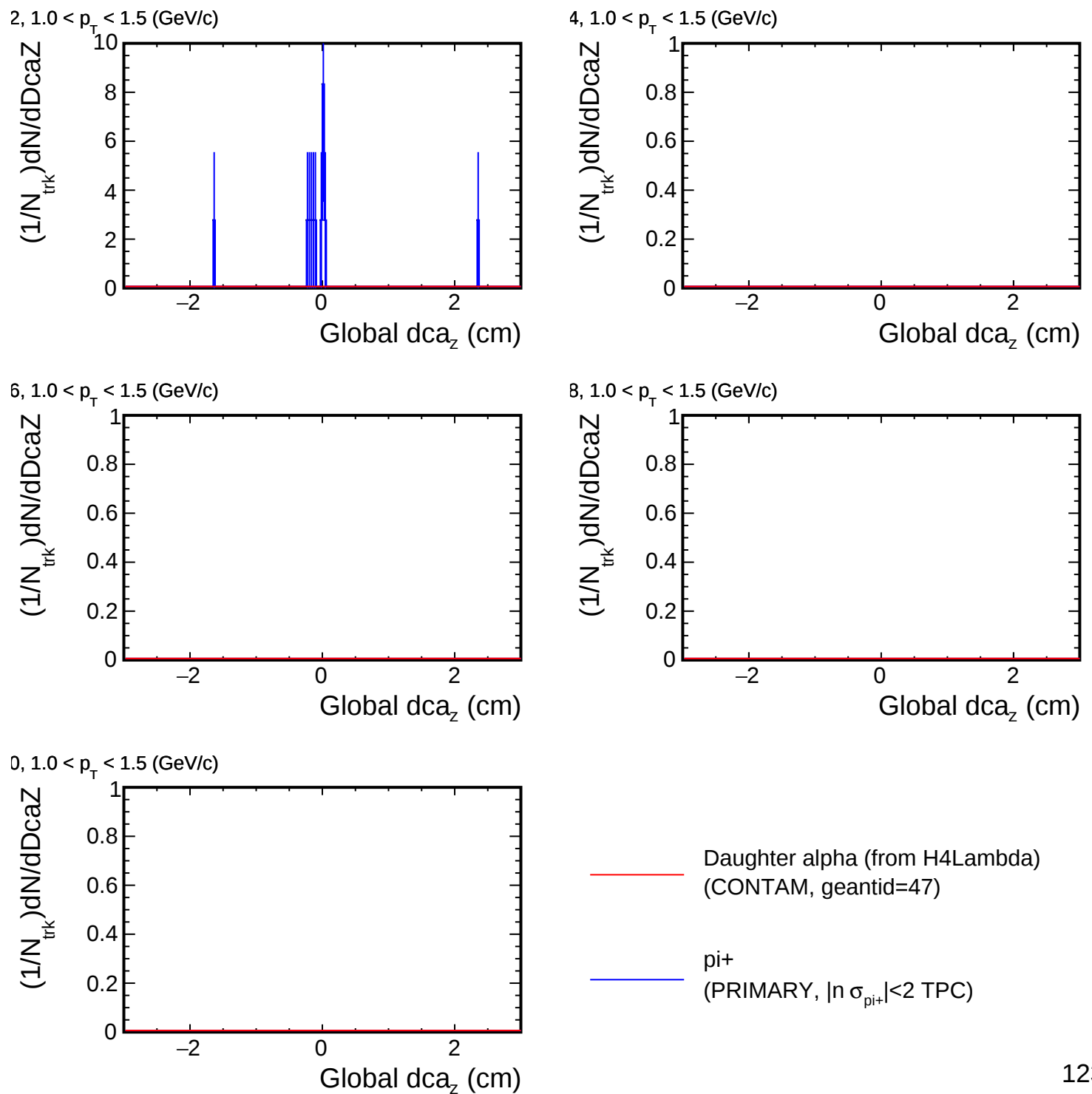
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices1.8, $1.0 < p_T < 1.5$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

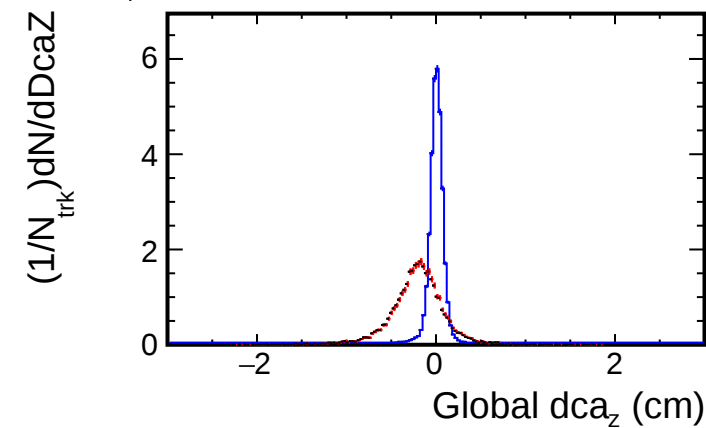
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

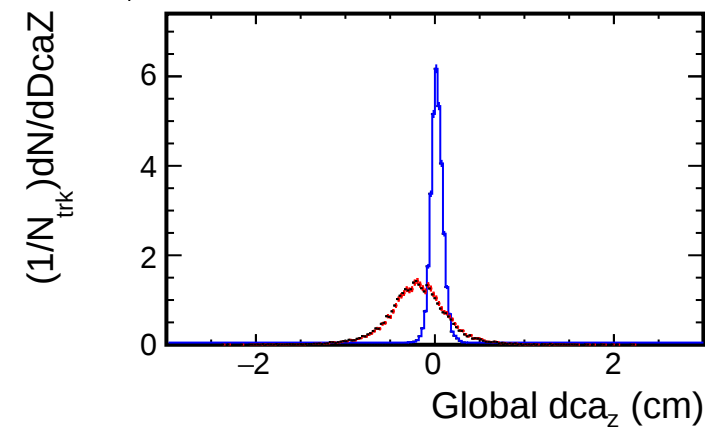


DcaZ distribution for (p_T , η) slices

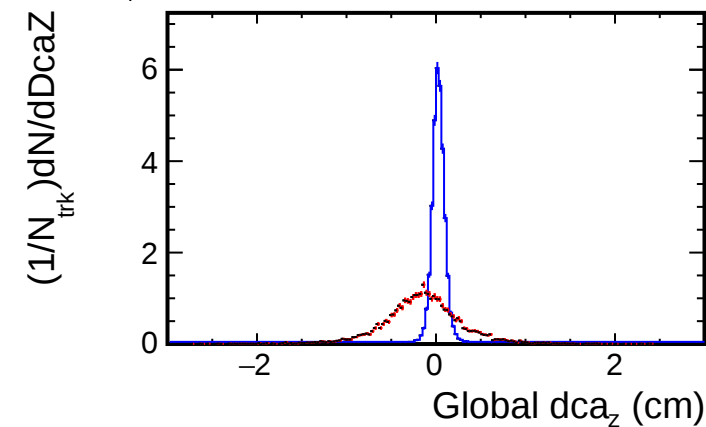
1.8, $1.5 < p_T < 2.0$ (GeV/c)



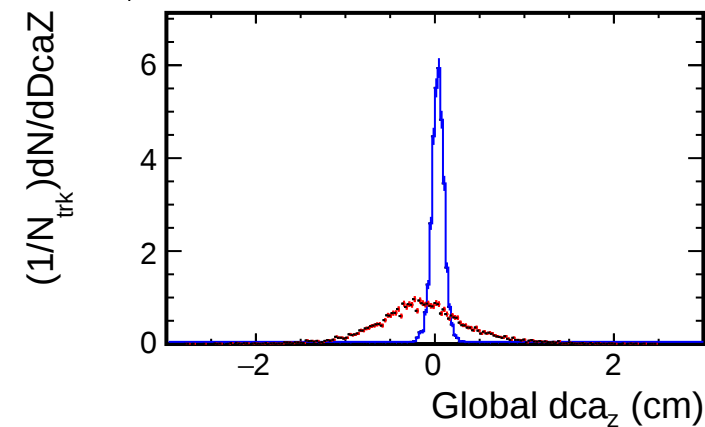
1.6, $1.5 < p_T < 2.0$ (GeV/c)



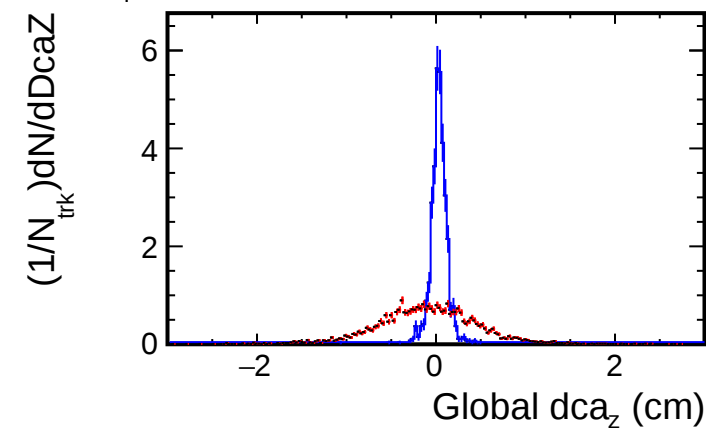
1.4, $1.5 < p_T < 2.0$ (GeV/c)



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

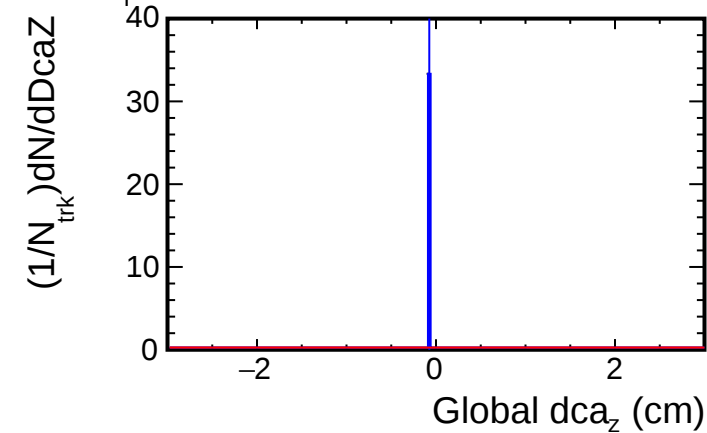
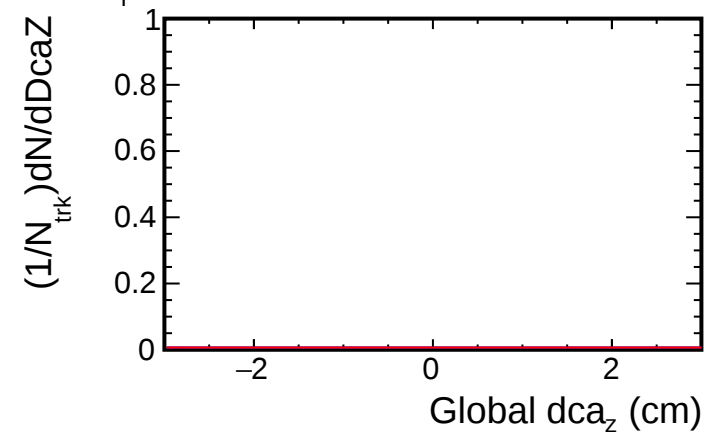
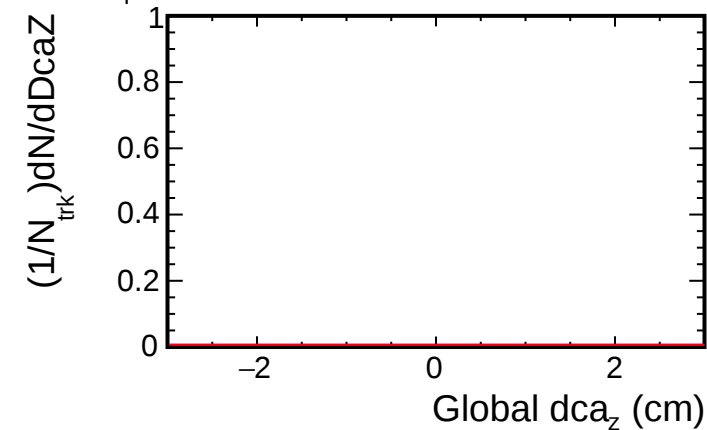
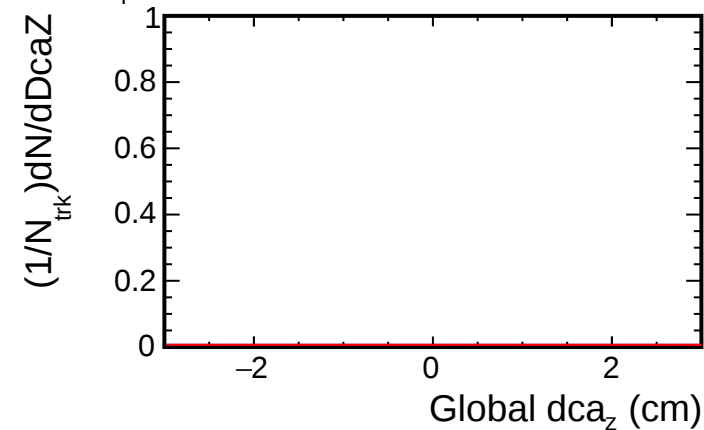
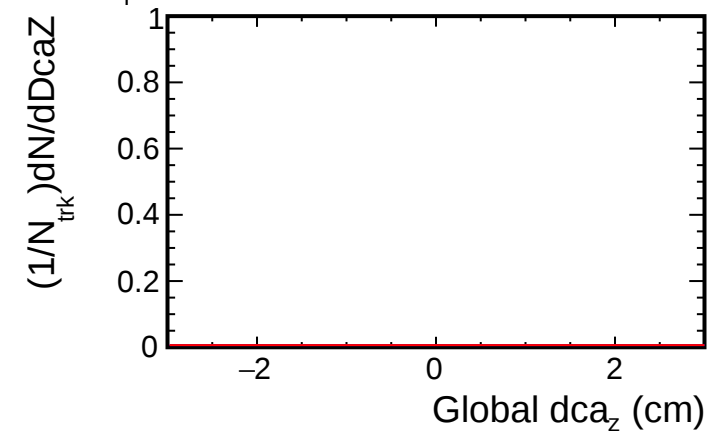


1.0, $1.5 < p_T < 2.0$ (GeV/c)



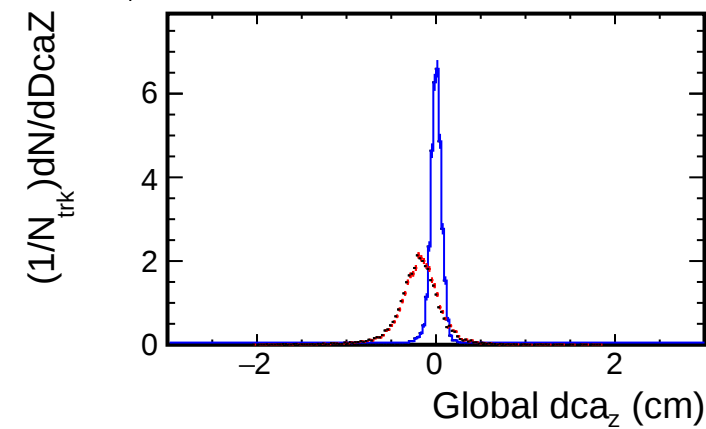
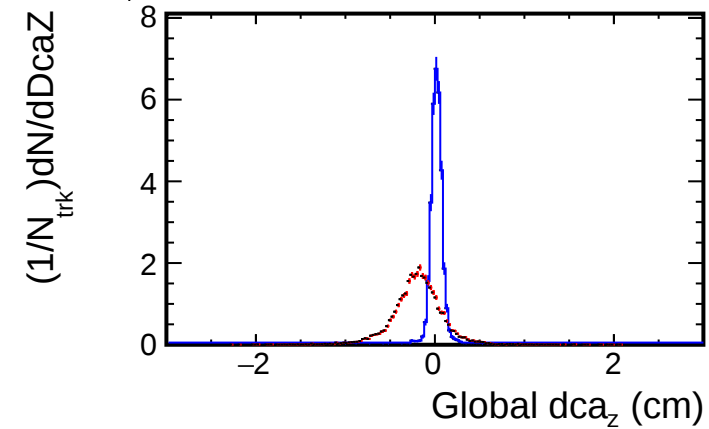
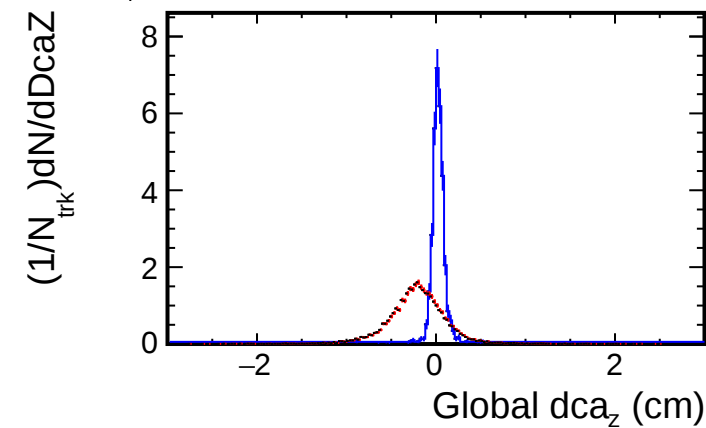
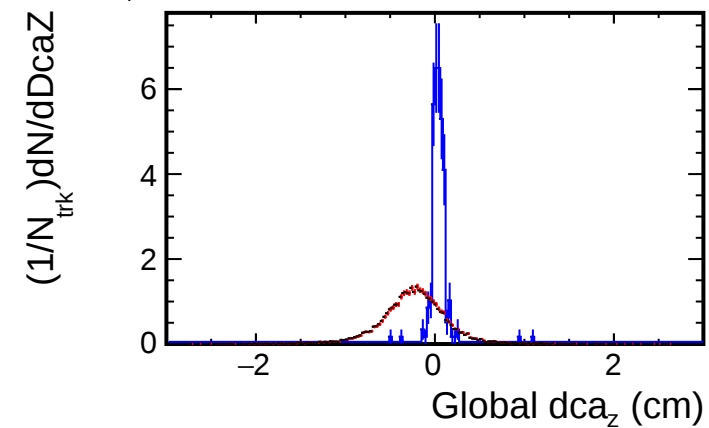
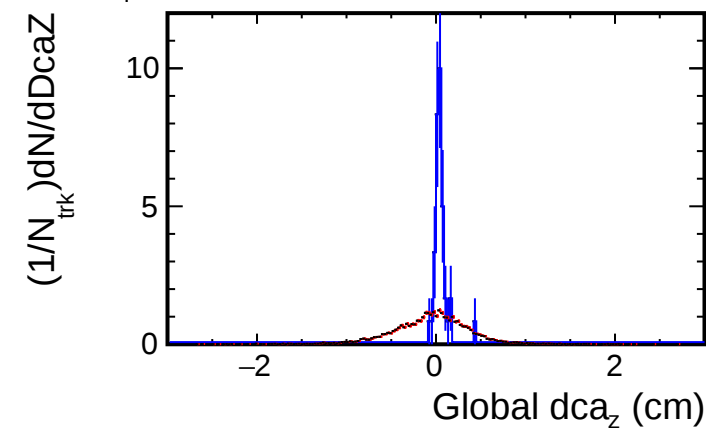
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

DcaZ distribution for (p_T , η) slices2, $1.5 < p_T < 2.0$ (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)

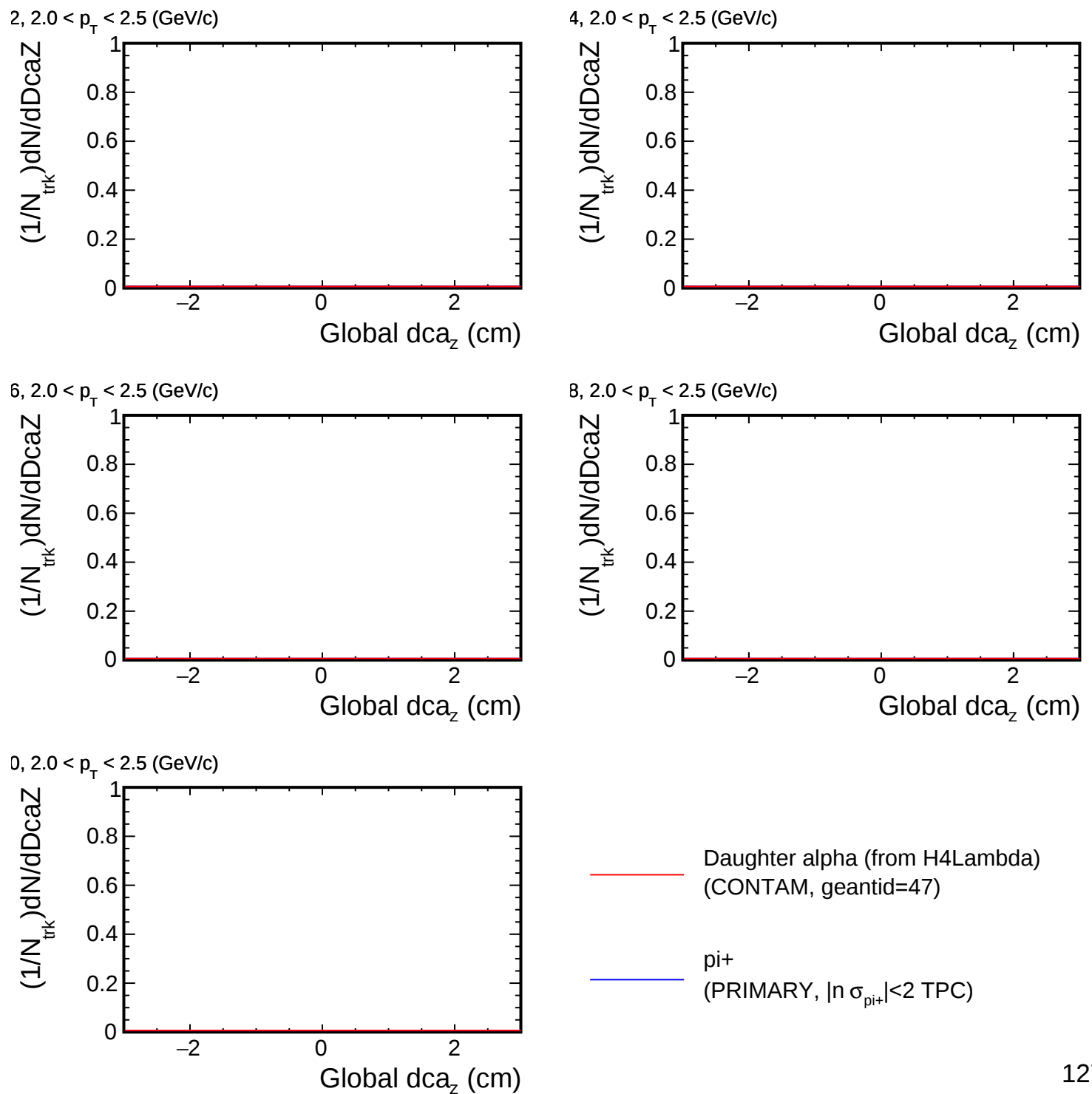
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

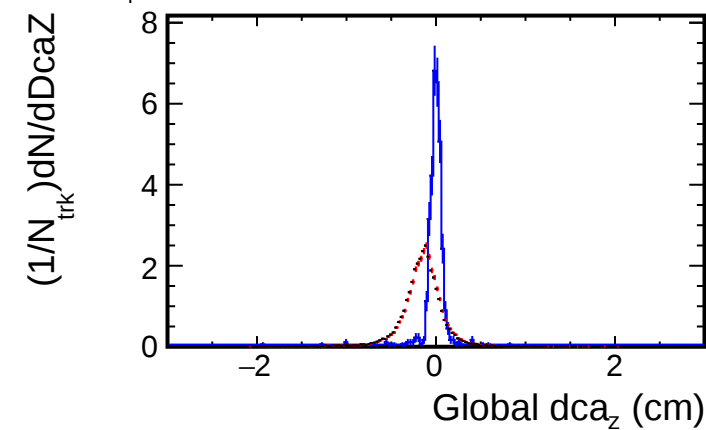
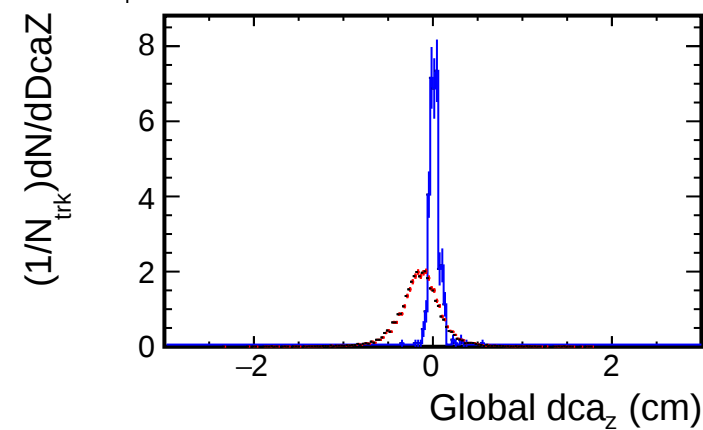
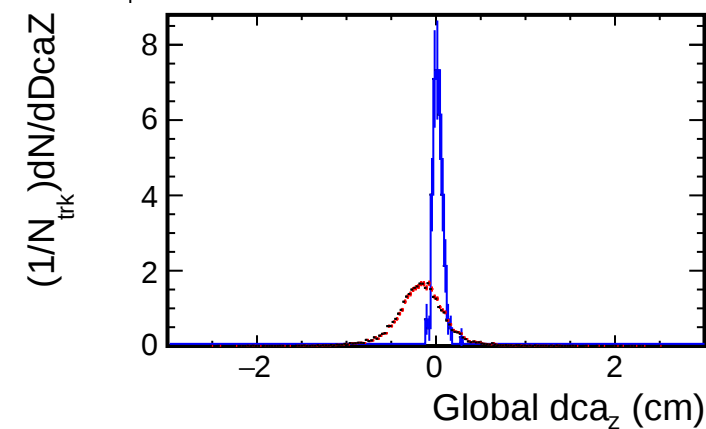
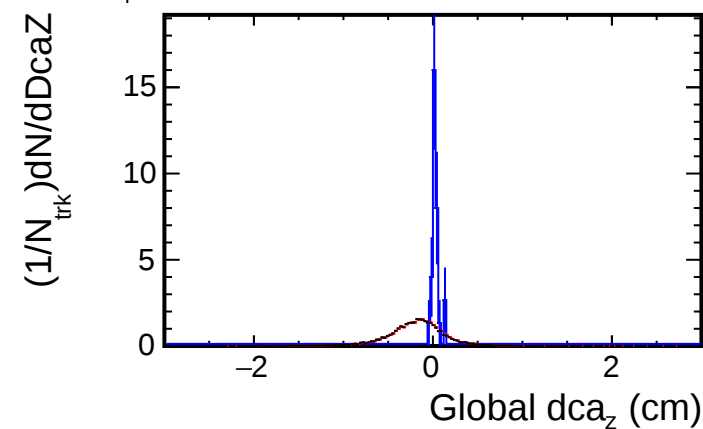
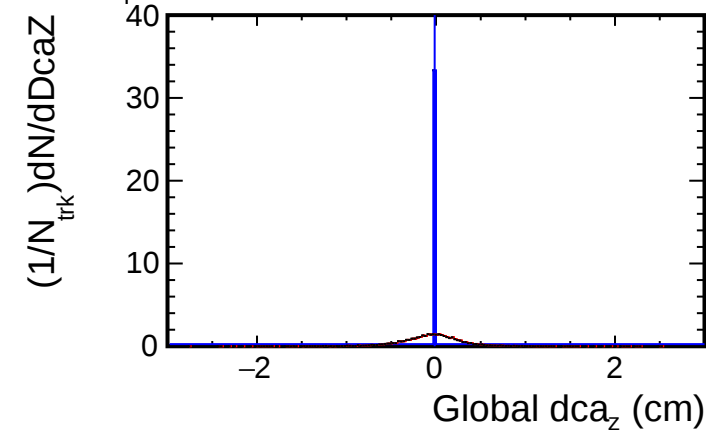
— pi+
(PRIMARY, |n σ_{pi+}| < 2 TPC)

DcaZ distribution for (p_T , η) slices1.8, $2.0 < p_T < 2.5$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

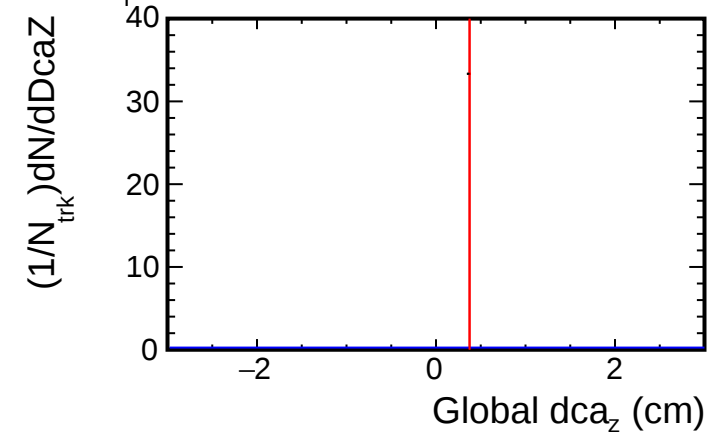
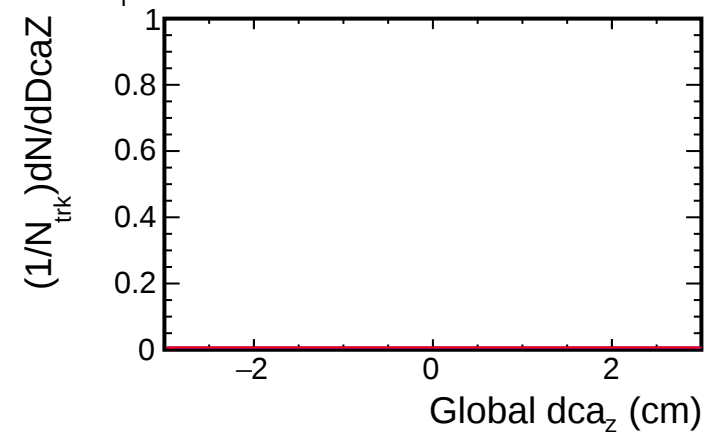
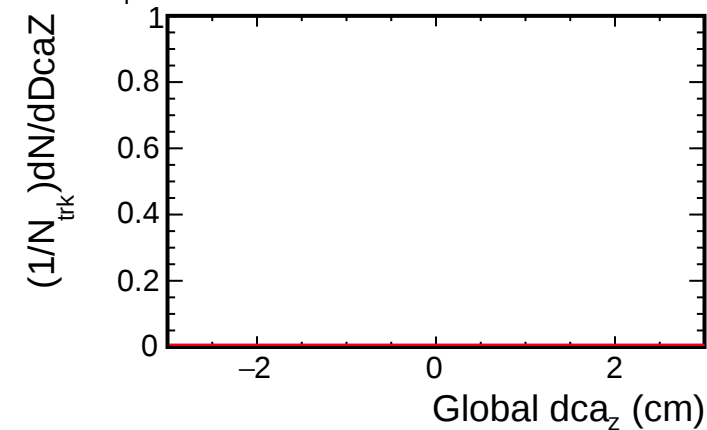
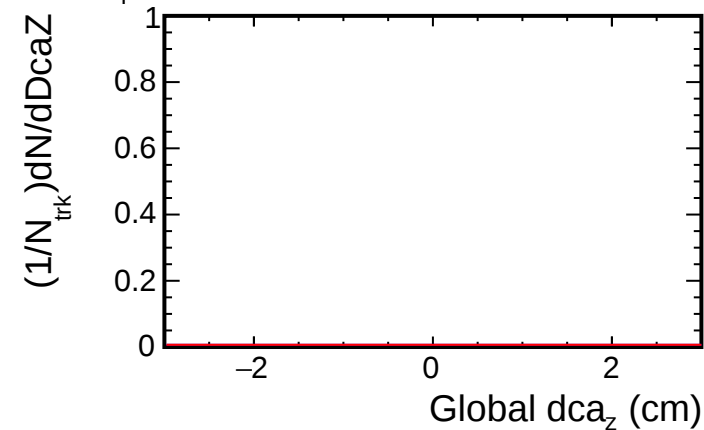
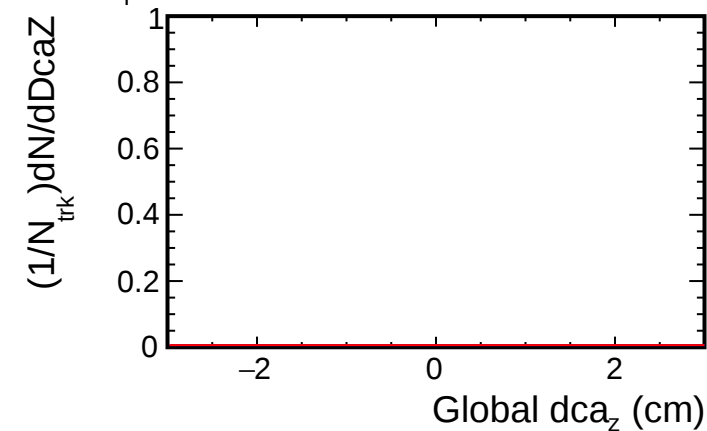
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

DcaZ distribution for (p_T , η) slices $1.8, 2.5 < p_T < 3.0$ (GeV/c) $1.6, 2.5 < p_T < 3.0$ (GeV/c) $1.4, 2.5 < p_T < 3.0$ (GeV/c) $1.2, 2.5 < p_T < 3.0$ (GeV/c) $1.0, 2.5 < p_T < 3.0$ (GeV/c)

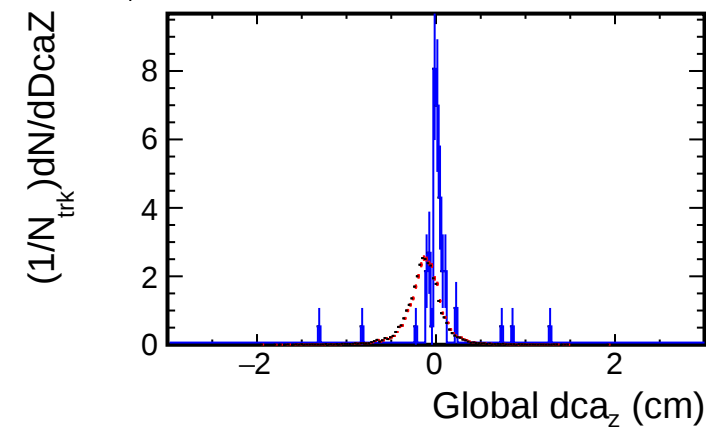
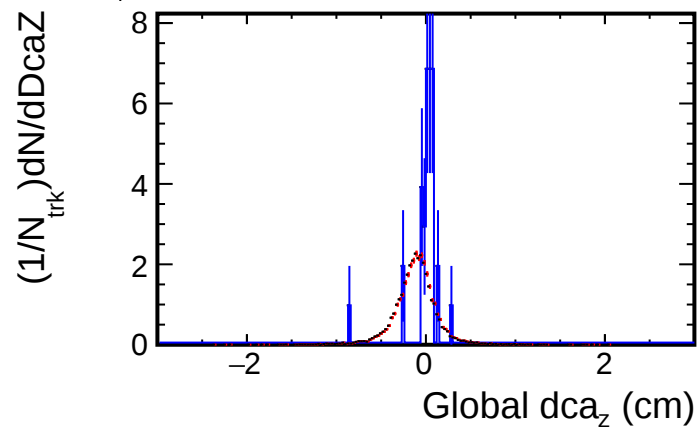
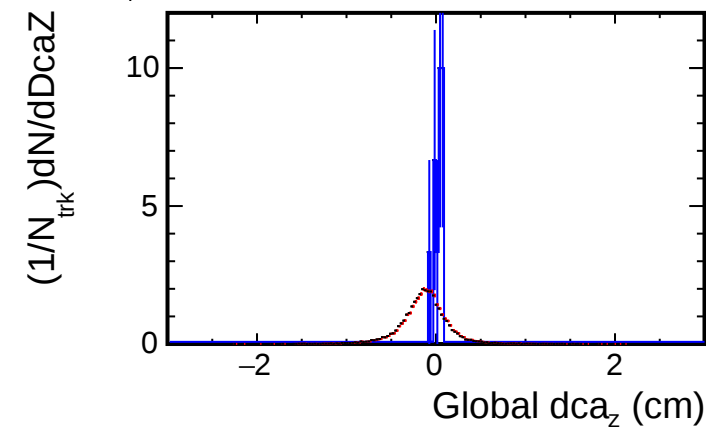
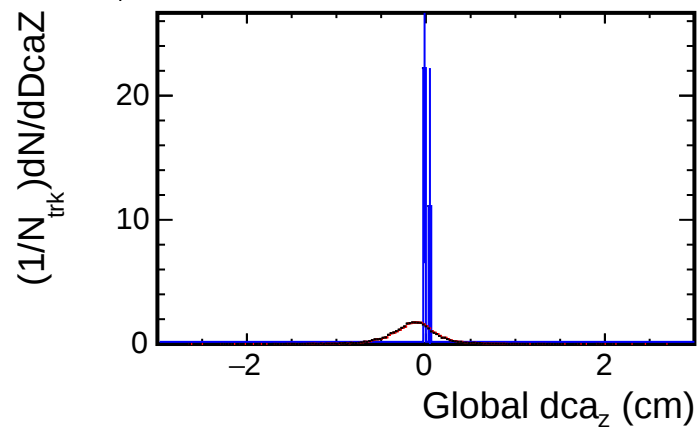
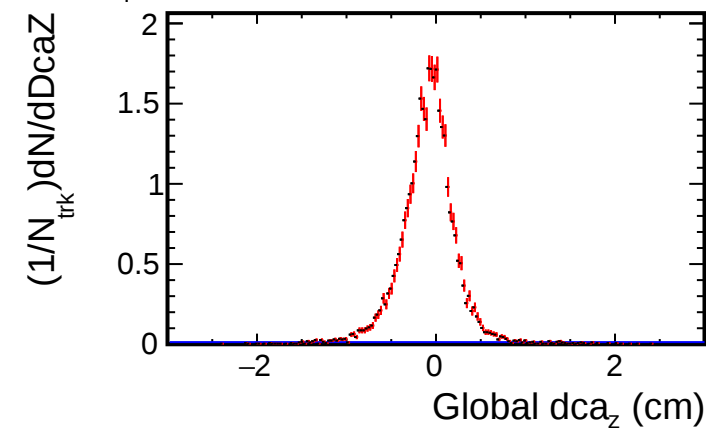
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

DcaZ distribution for (p_T , η) slices2, $2.5 < p_T < 3.0$ (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)

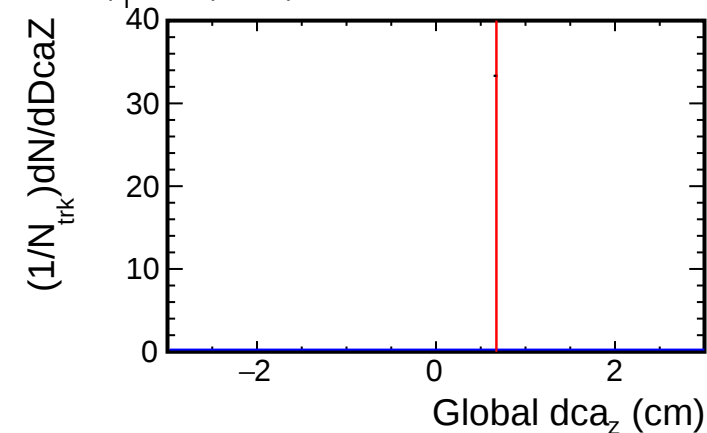
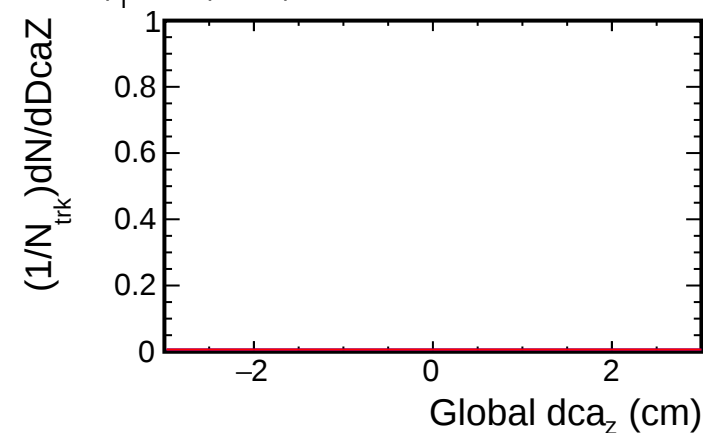
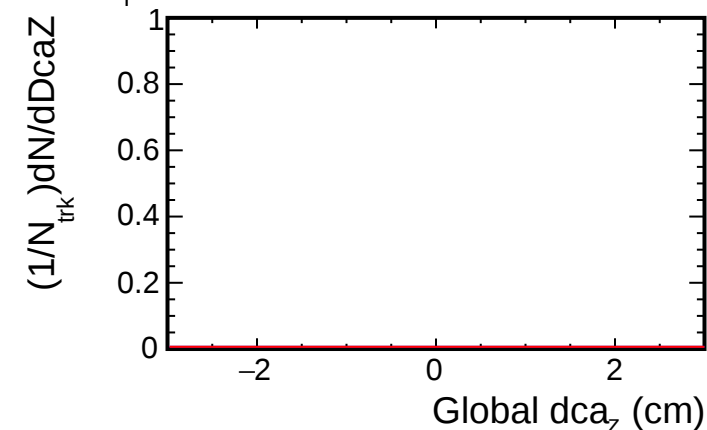
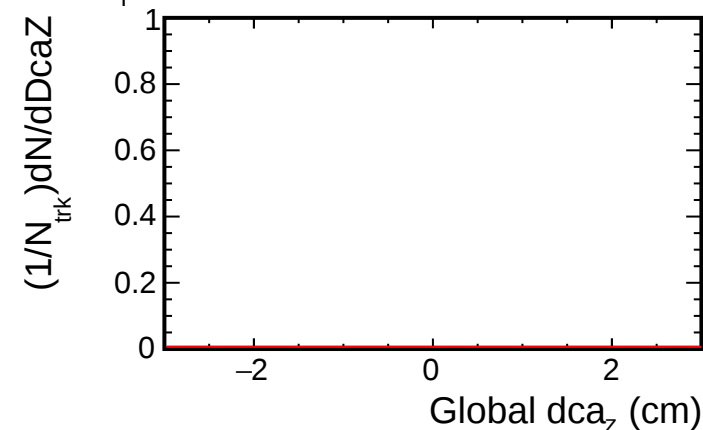
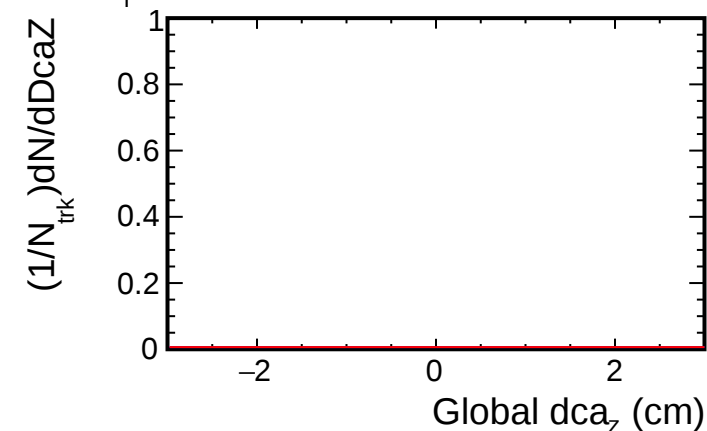
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— pi+
(PRIMARY, |n σ_{pi+}| < 2 TPC)

DcaZ distribution for (p_T , η) slices1.8, $3.0 < p_T < 3.5$ (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)

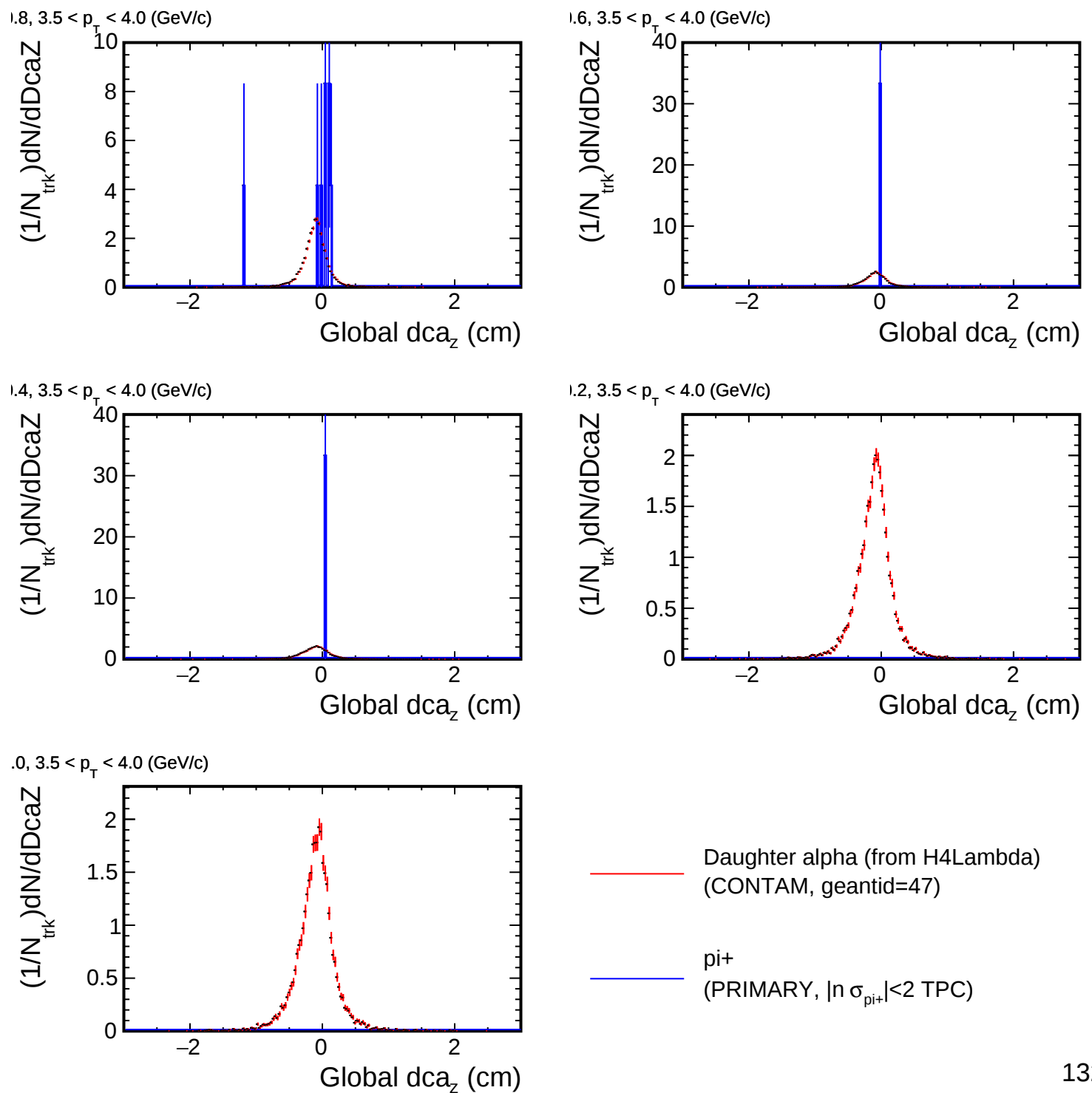
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

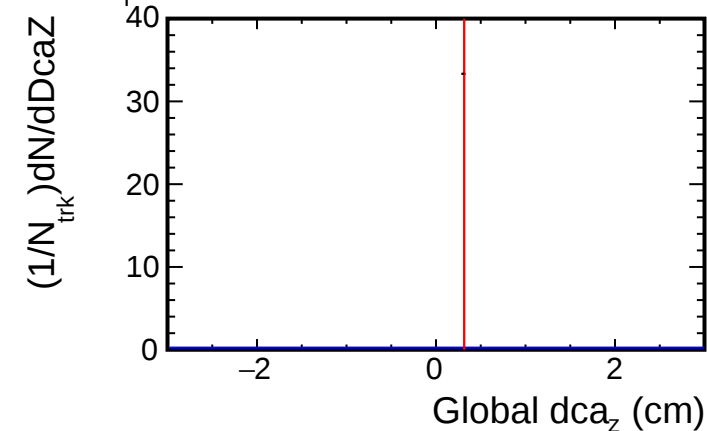
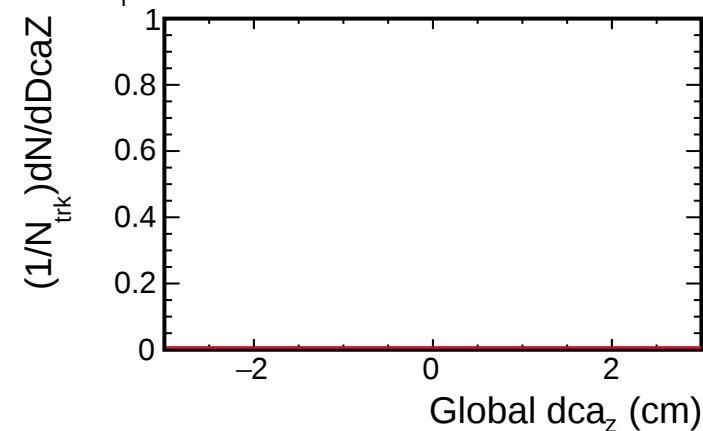
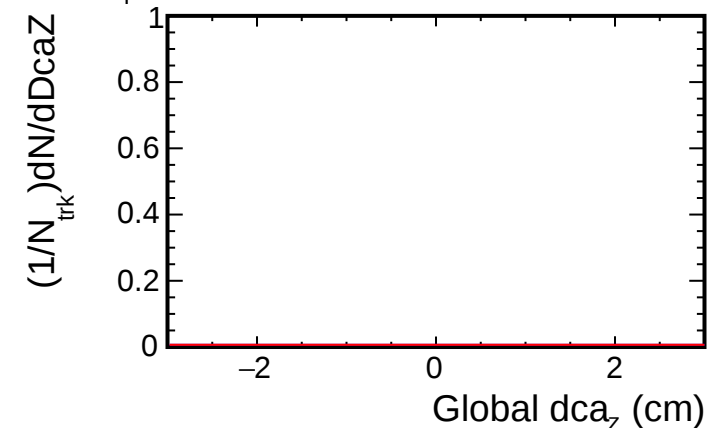
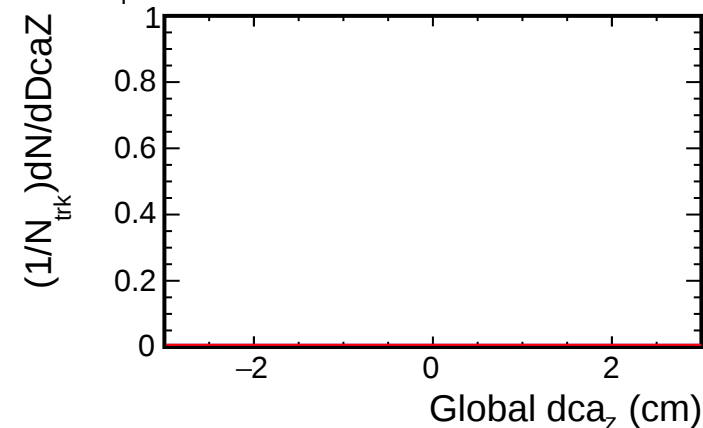
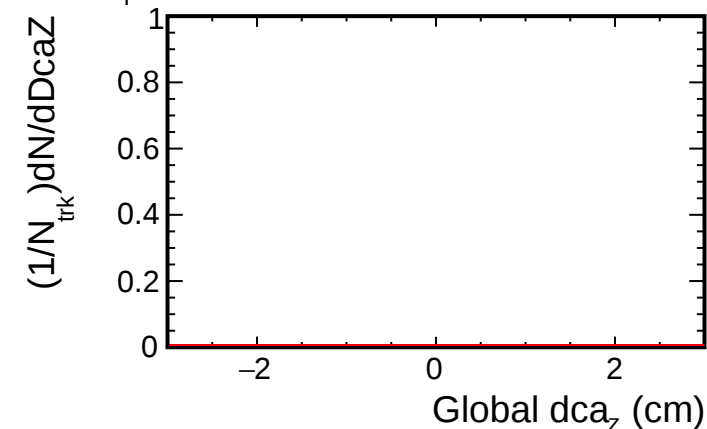
— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices2, $3.0 < p_T < 3.5$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

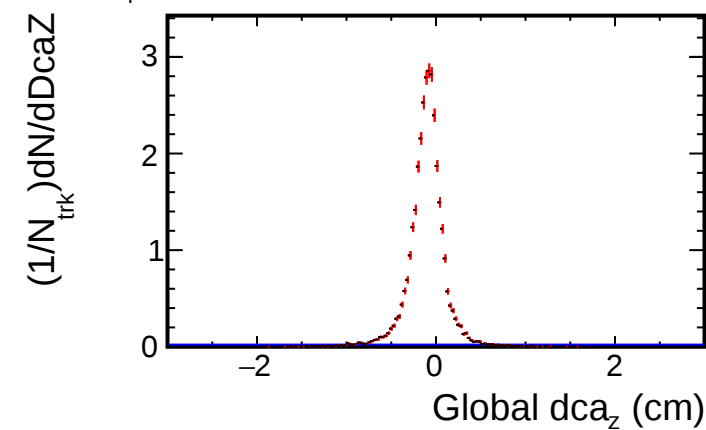
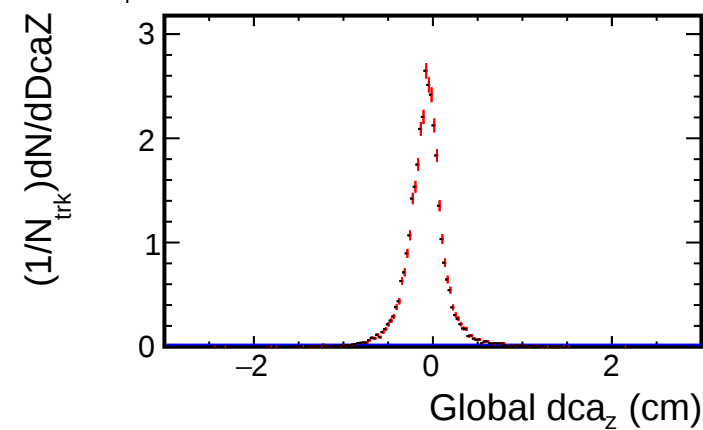
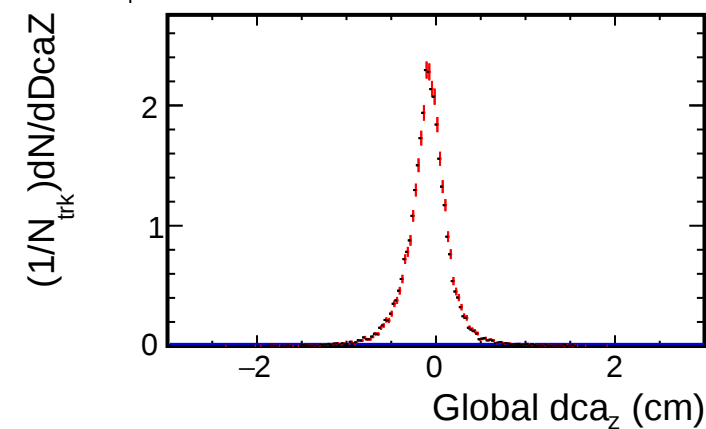
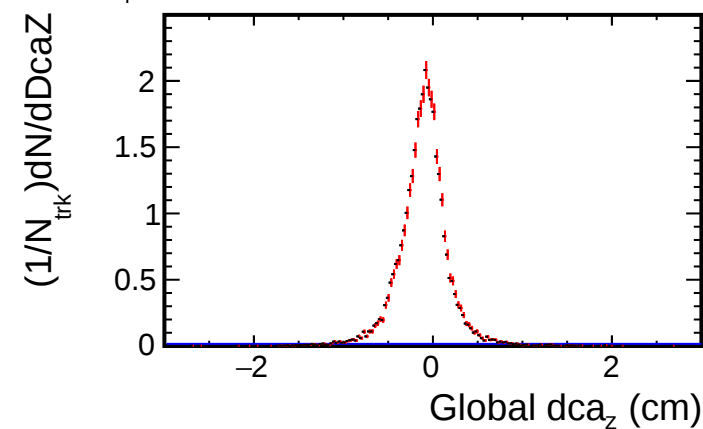
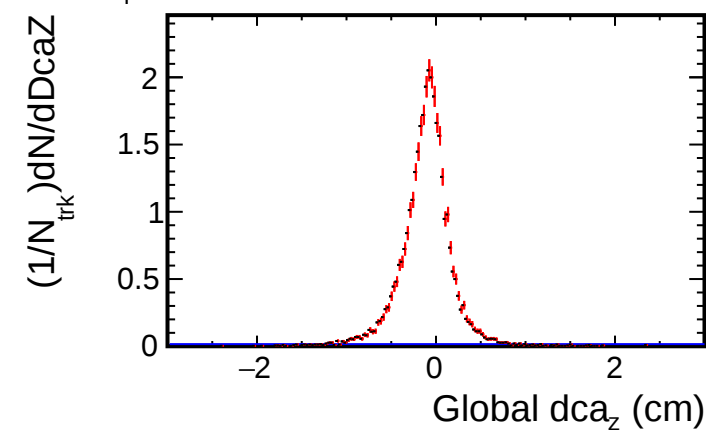
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

DcaZ distribution for (p_T , η) slices

DcaZ distribution for (p_T , η) slices2, $3.5 < p_T < 4.0$ (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)

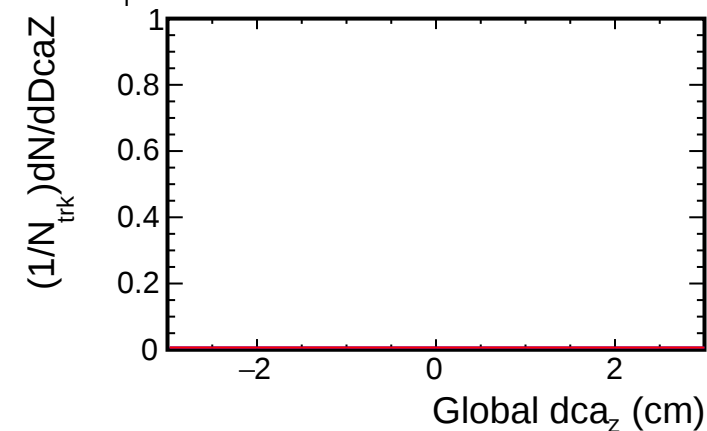
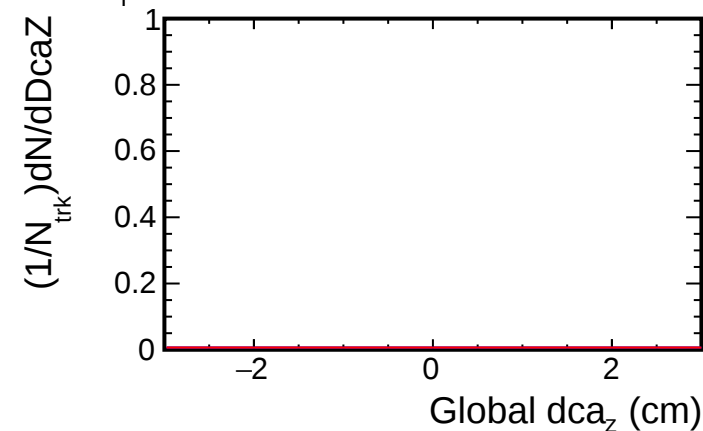
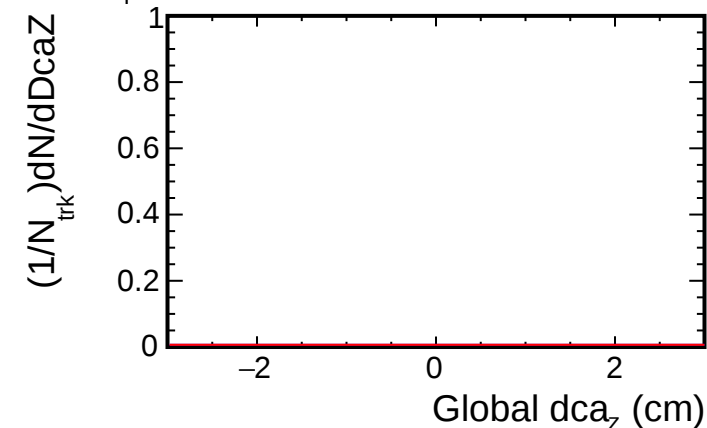
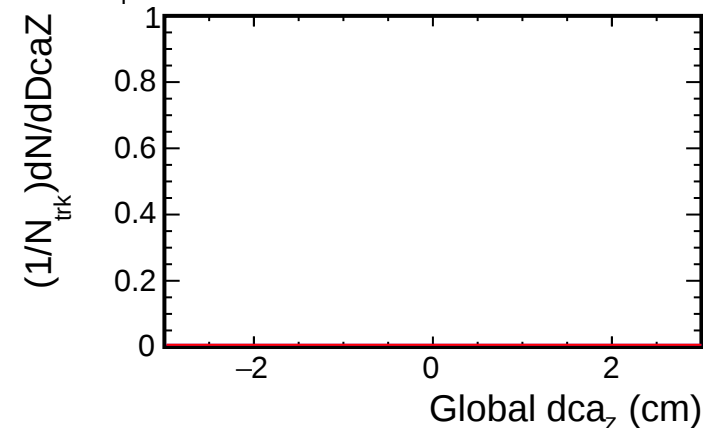
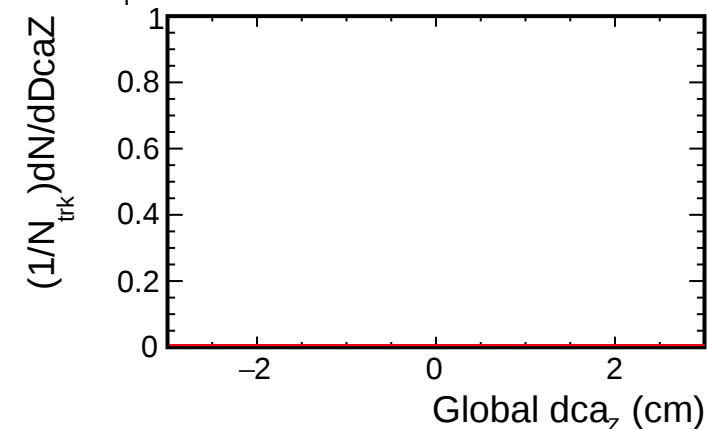
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

DcaZ distribution for (p_T , η) slices1.8, $4.0 < p_T < 4.5$ (GeV/c)1.6, $4.0 < p_T < 4.5$ (GeV/c)1.4, $4.0 < p_T < 4.5$ (GeV/c)1.2, $4.0 < p_T < 4.5$ (GeV/c)1.0, $4.0 < p_T < 4.5$ (GeV/c)

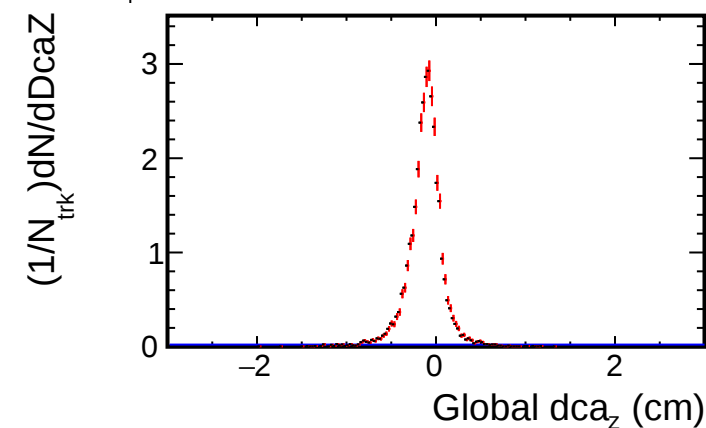
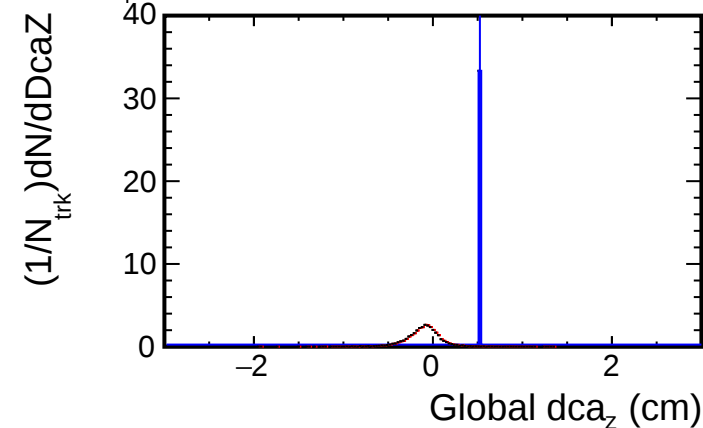
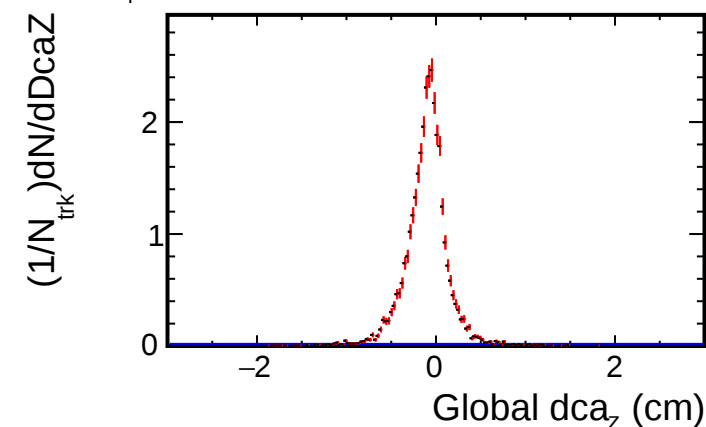
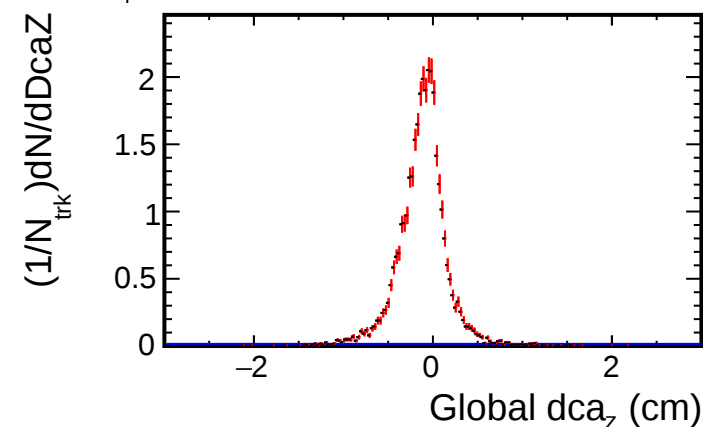
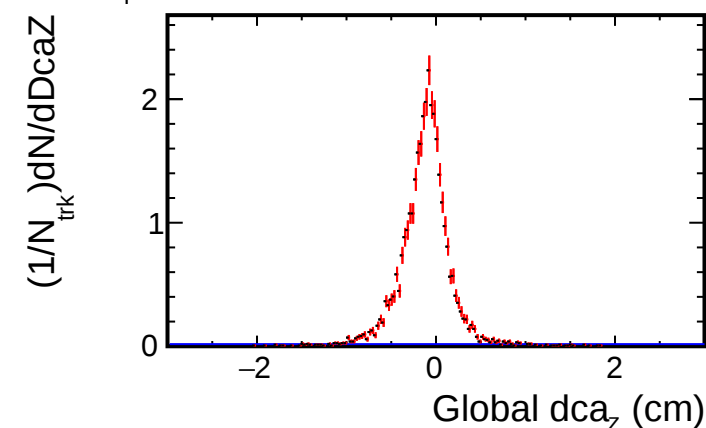
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

DcaZ distribution for (p_T , η) slices2, $4.0 < p_T < 4.5$ (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)

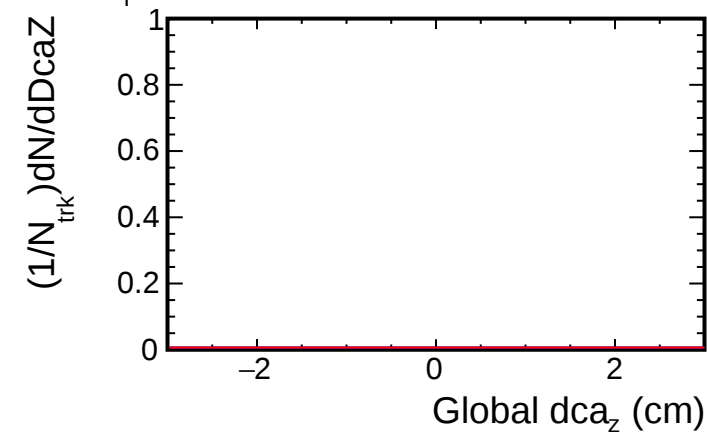
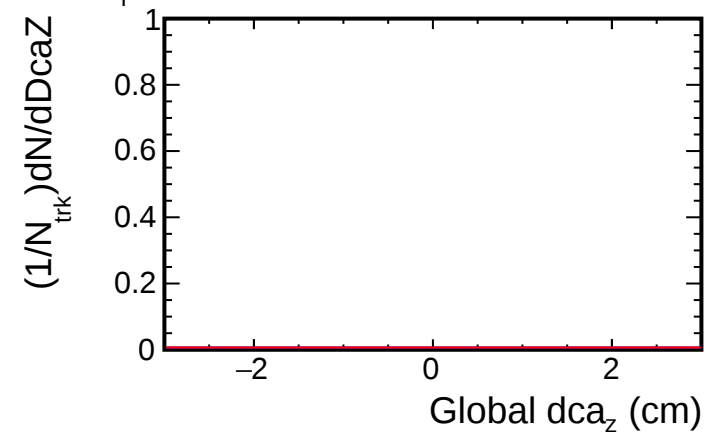
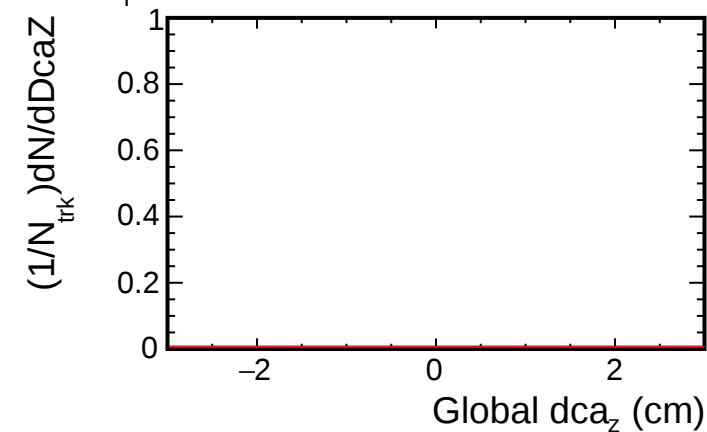
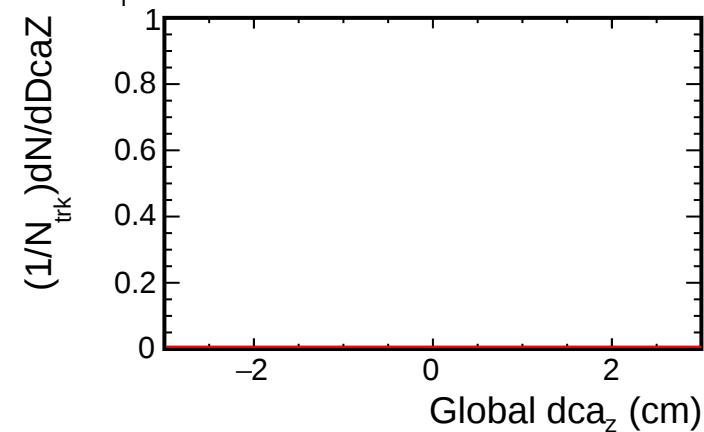
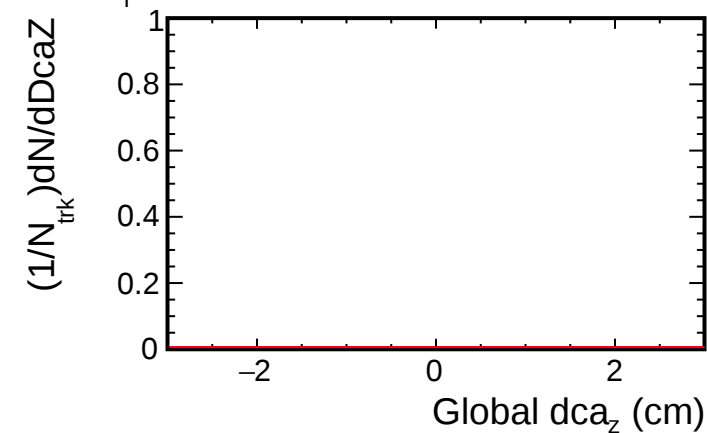
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— pi+
(PRIMARY, |n σ_{pi+}| < 2 TPC)

DcaZ distribution for (p_T , η) slices1.8, $4.5 < p_T < 5.0$ (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)

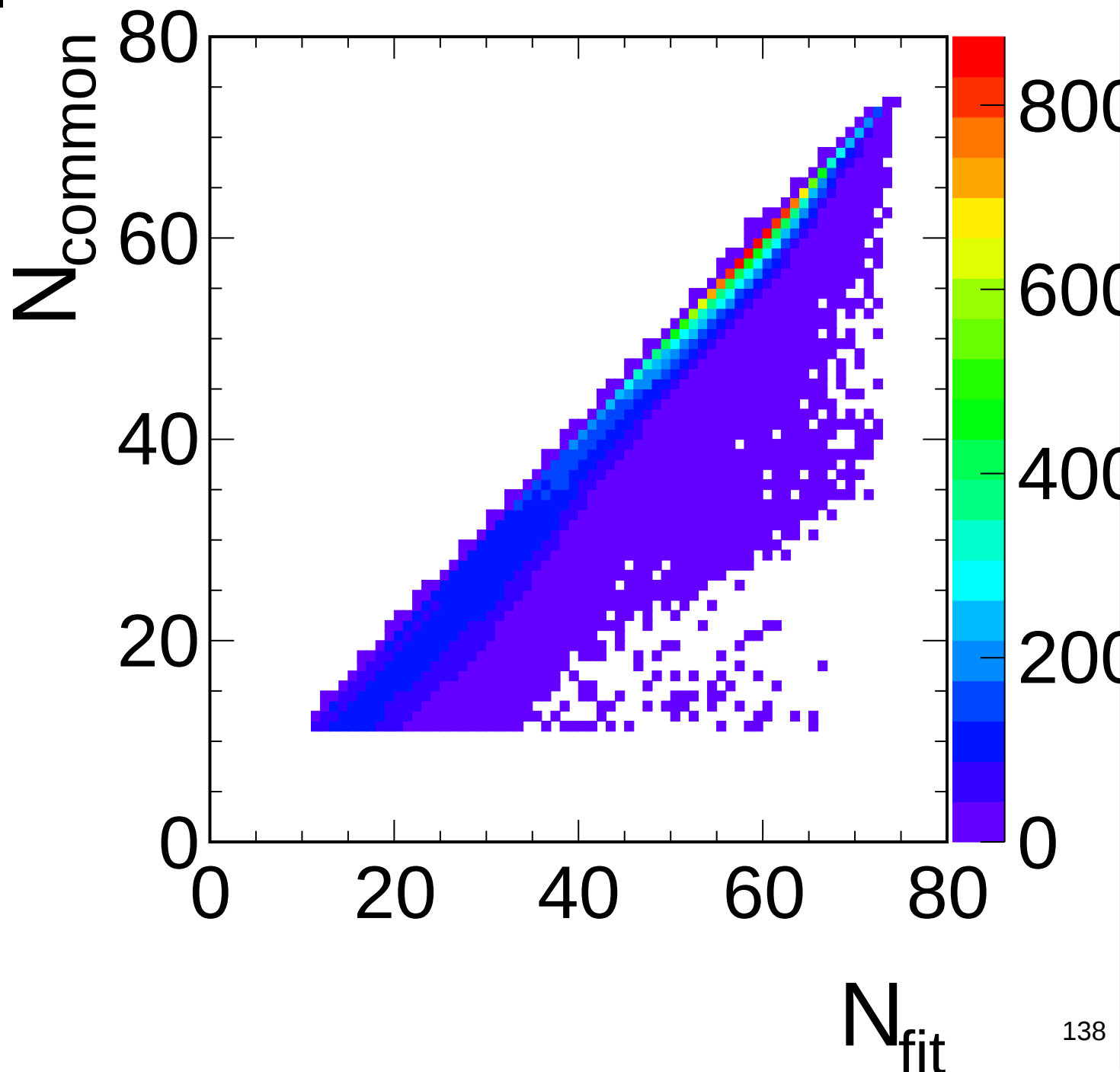
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

DcaZ distribution for (p_T , η) slices2, $4.5 < p_T < 5.0$ (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)

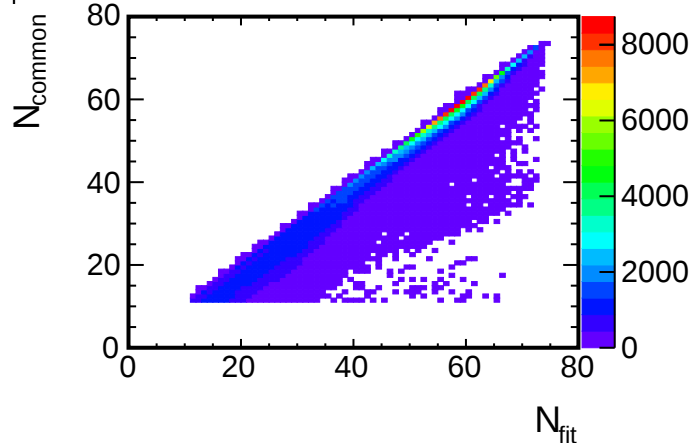
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

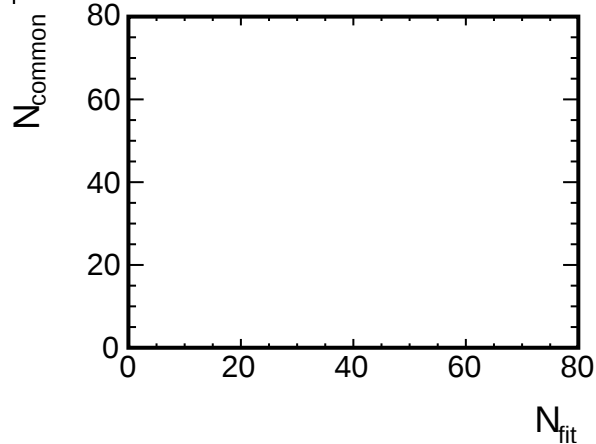
N_{common} vs N_{hit} (Embedding:pi-, Real:pi-) $p_T < 5.0 \text{ GeV/c}$ 

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

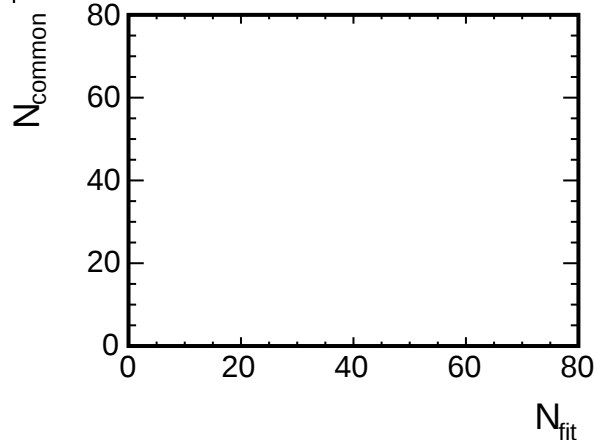
$< p_T < 0.5$ GeV/c



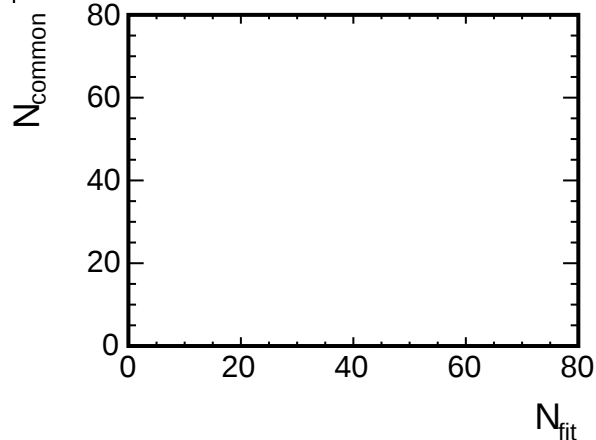
$< p_T < 1.0$ GeV/c



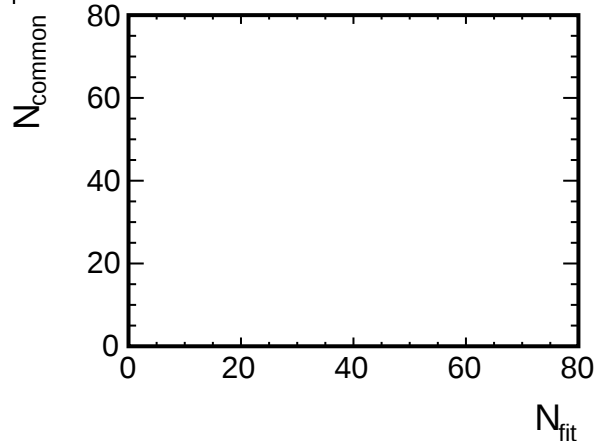
$< p_T < 1.5$ GeV/c

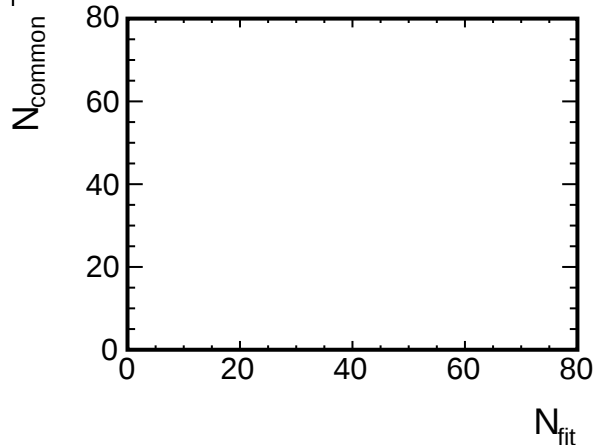
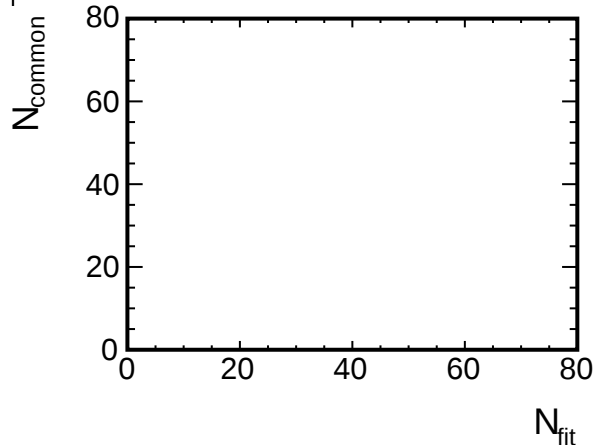
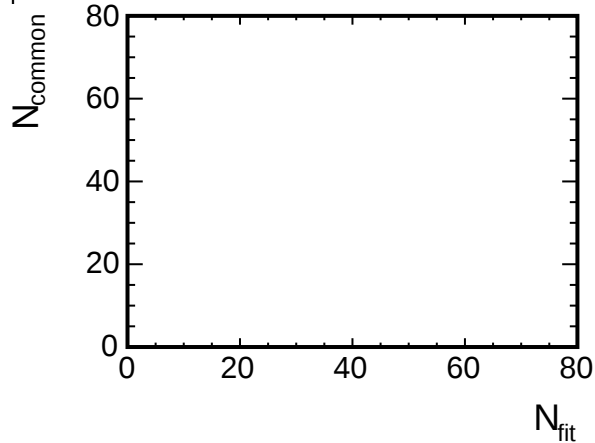
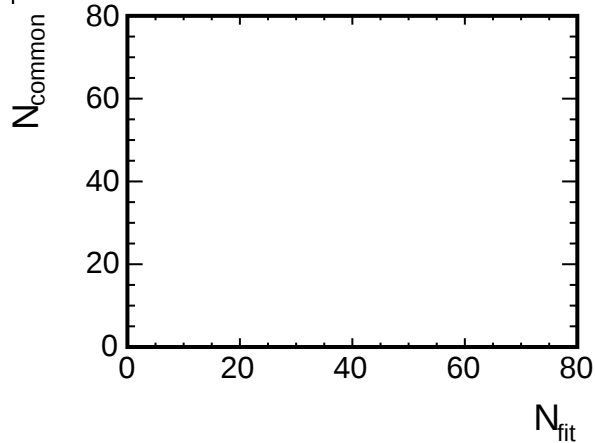
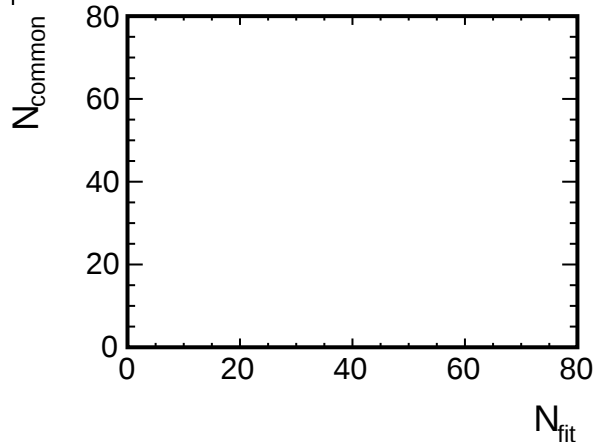


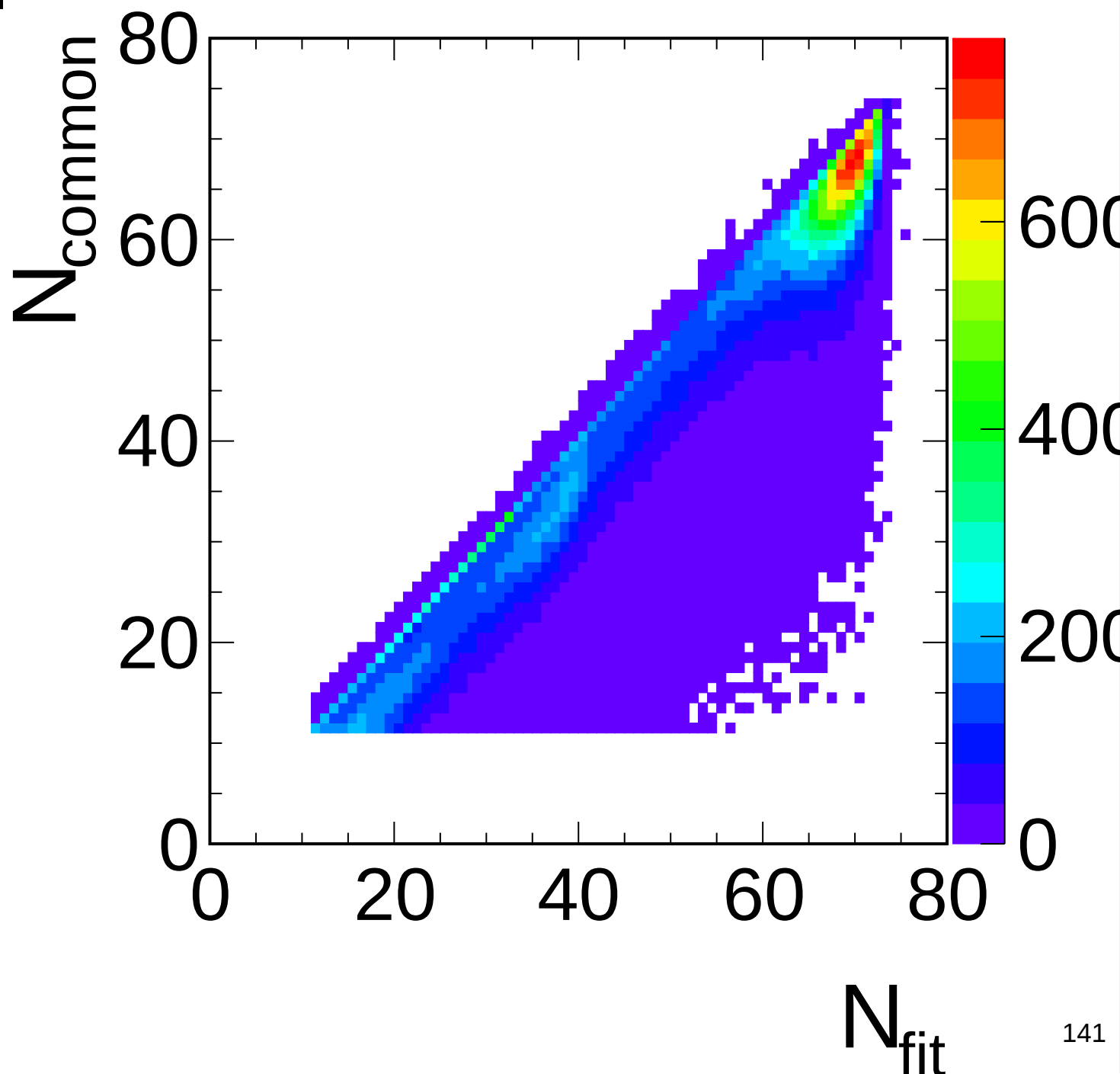
$< p_T < 2.0$ GeV/c



$< p_T < 2.5$ GeV/c

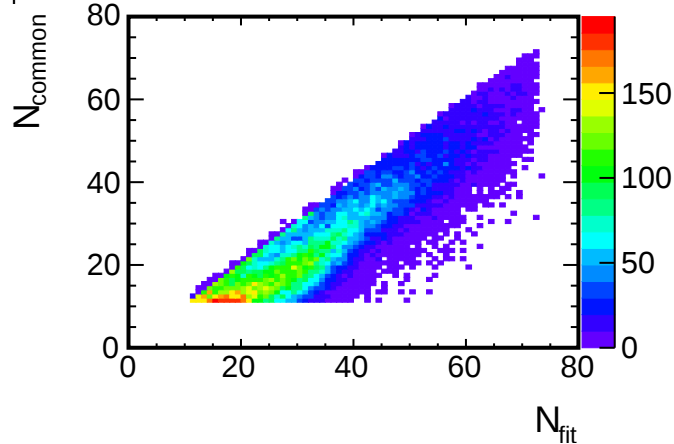


N_{common} vs N_{hit}, p_T dependence (Embedding:pi-, Real:pi-)< p_T < 3.0 GeV/c< p_T < 3.5 GeV/c< p_T < 4.0 GeV/c< p_T < 4.5 GeV/c< p_T < 5.0 GeV/c

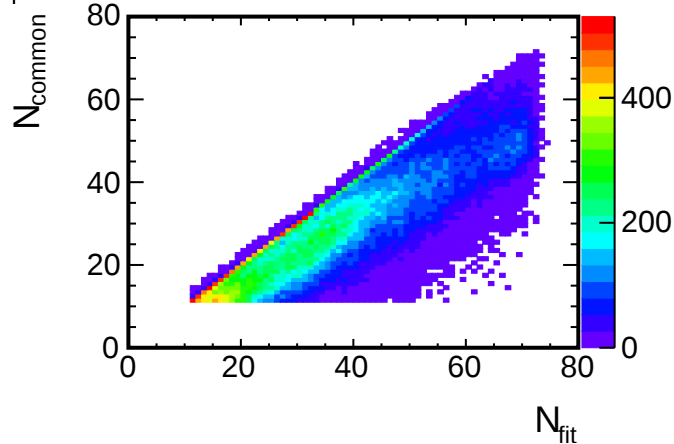
N_{common} vs N_{hit} (Embedding:alpha, Real:alpha) $p_T < 5.0 \text{ GeV/c}$ 

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

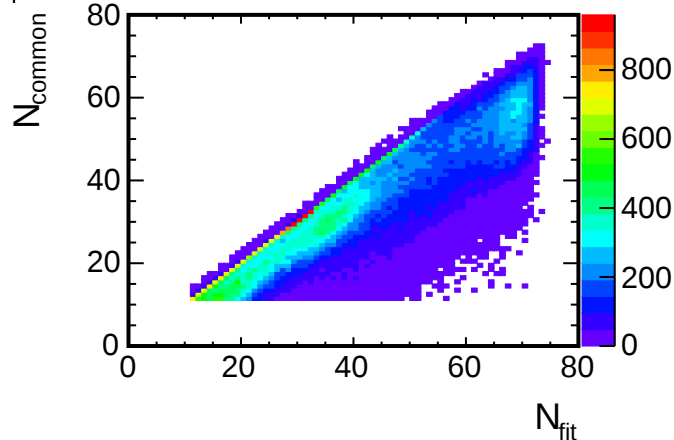
$< p_T < 0.5$ GeV/c



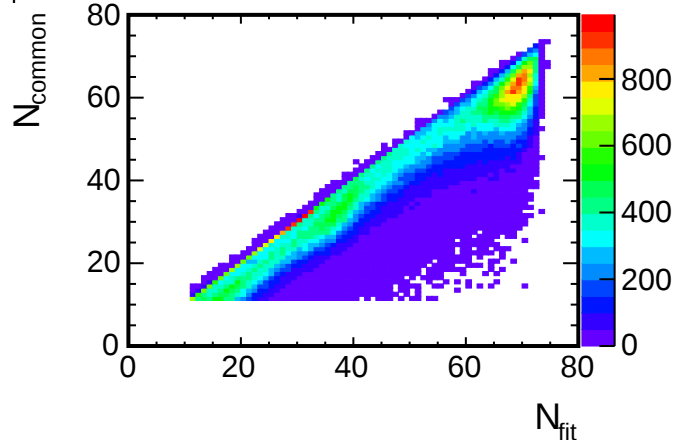
$< p_T < 1.0$ GeV/c



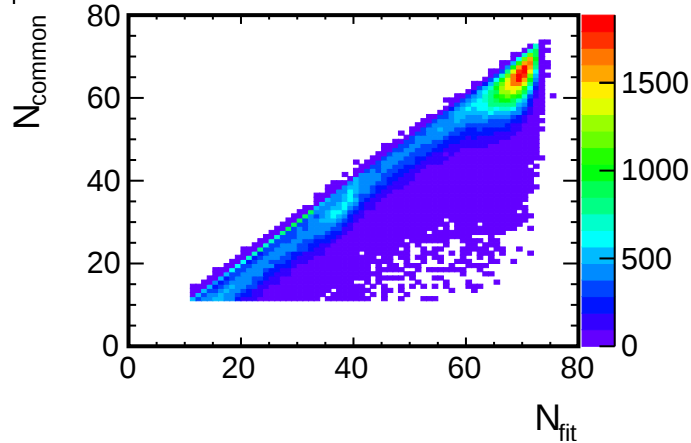
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

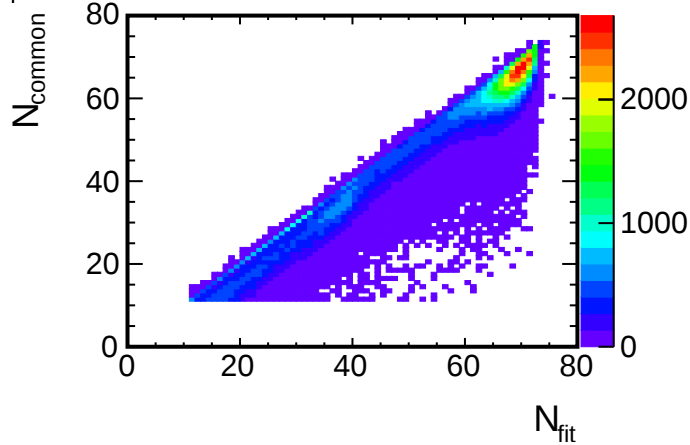


$< p_T < 2.5$ GeV/c

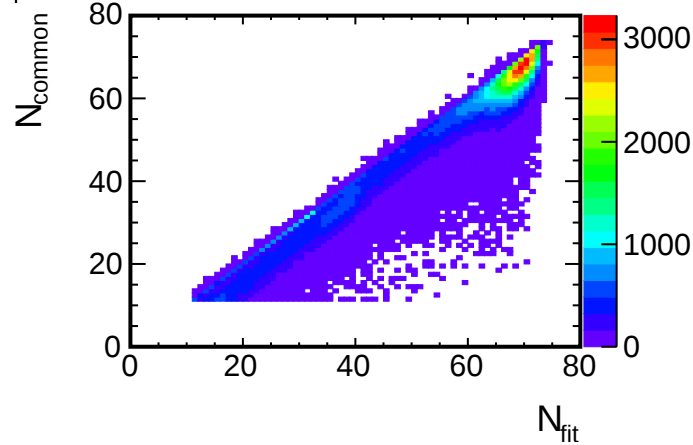


N_{common} vs N_{hit} , p_T dependence (Embedding:alpha, Real:alpha)

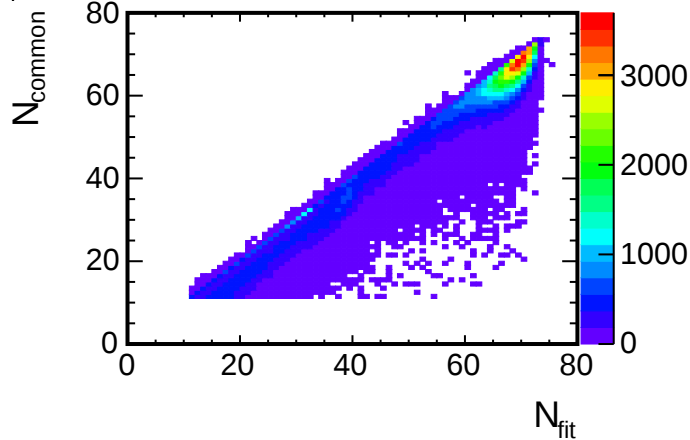
$< p_T < 3.0$ GeV/c



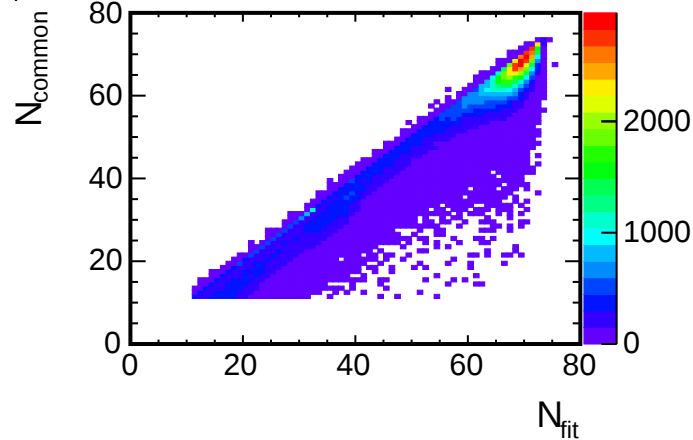
$< p_T < 3.5$ GeV/c



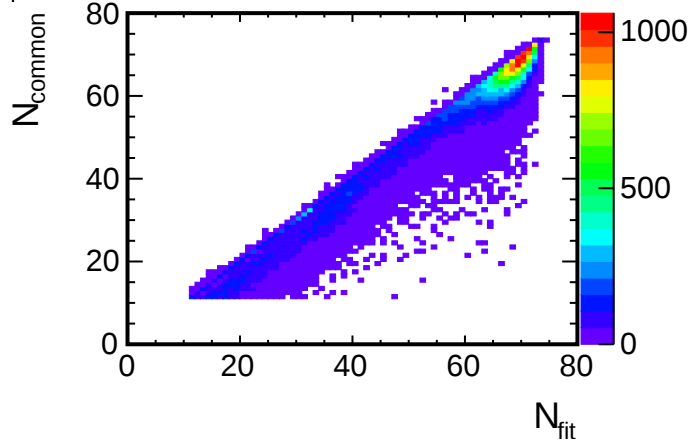
$< p_T < 4.0$ GeV/c

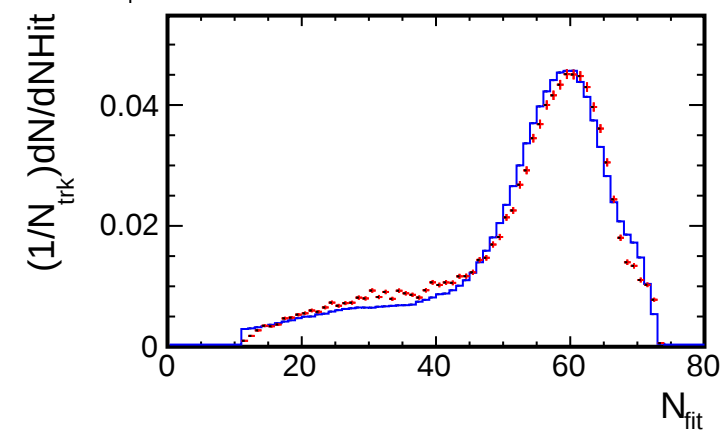
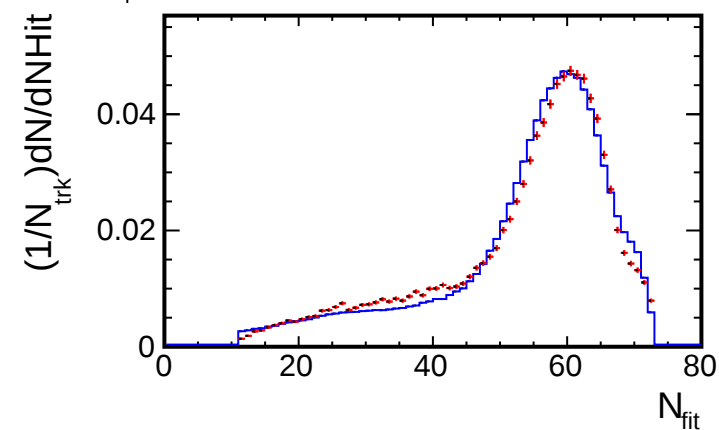
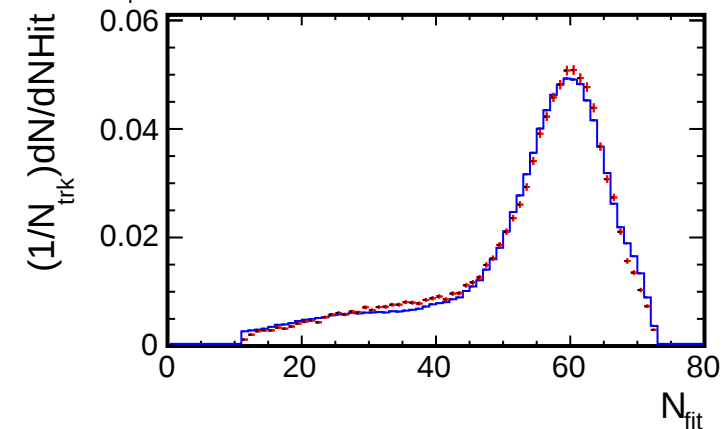
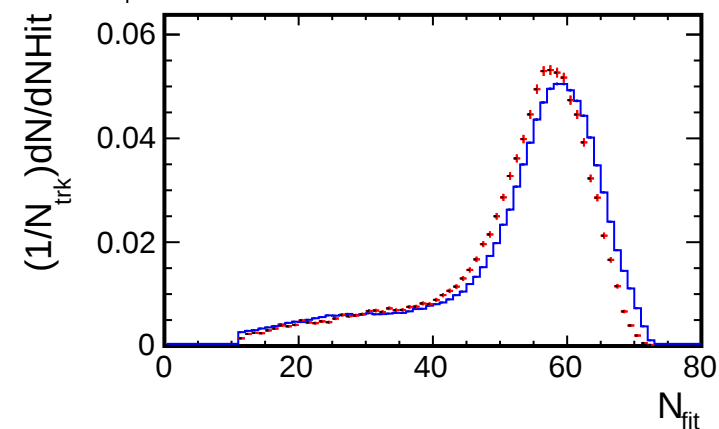
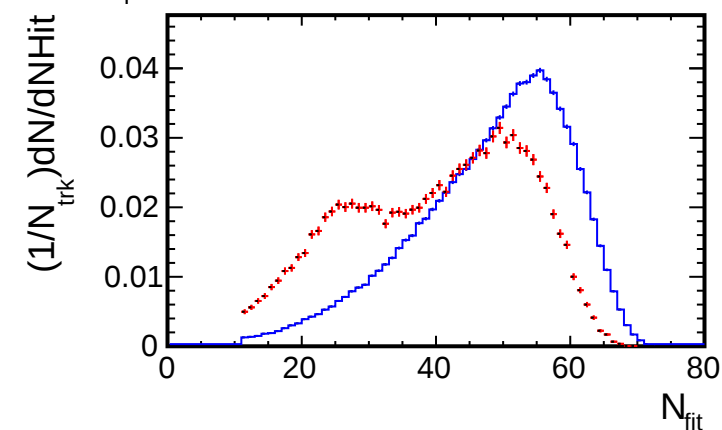


$< p_T < 4.5$ GeV/c



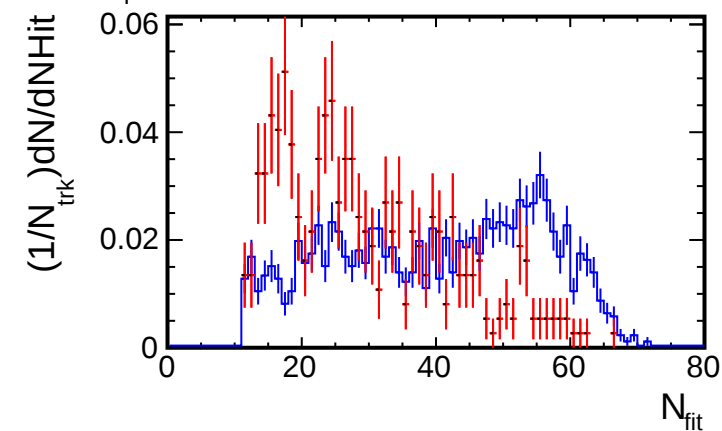
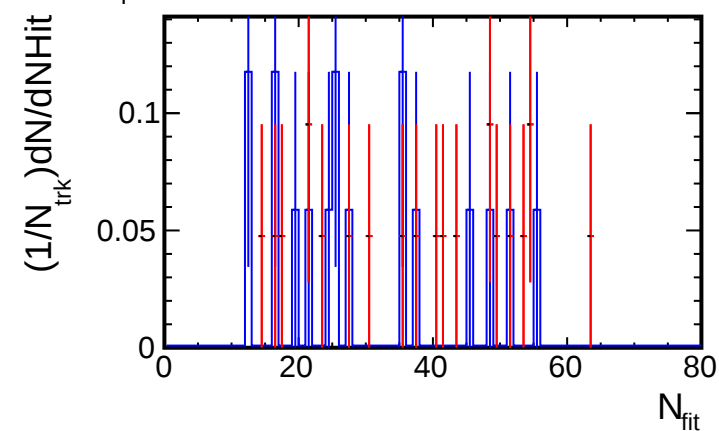
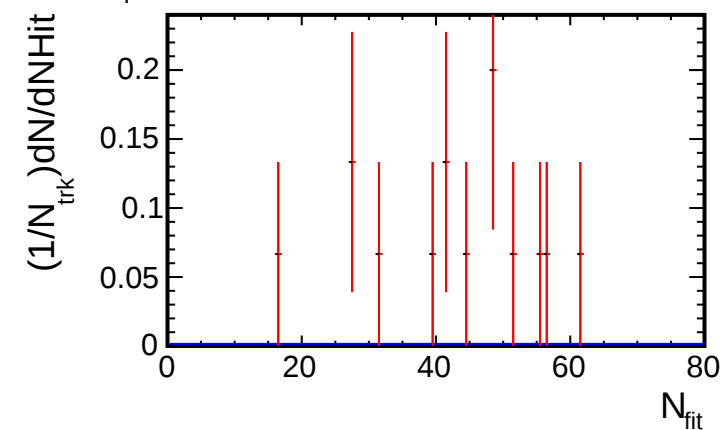
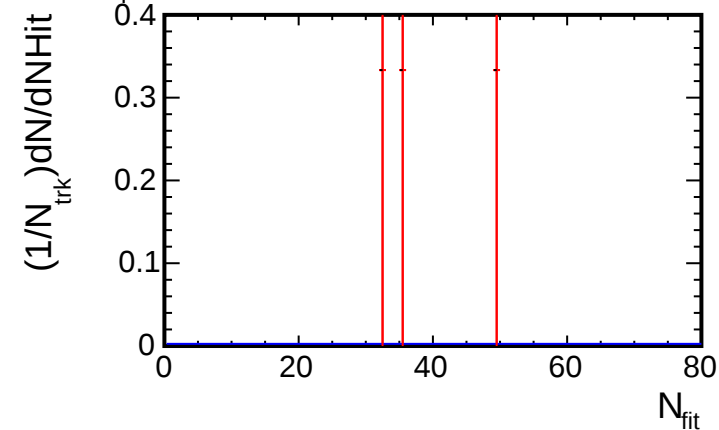
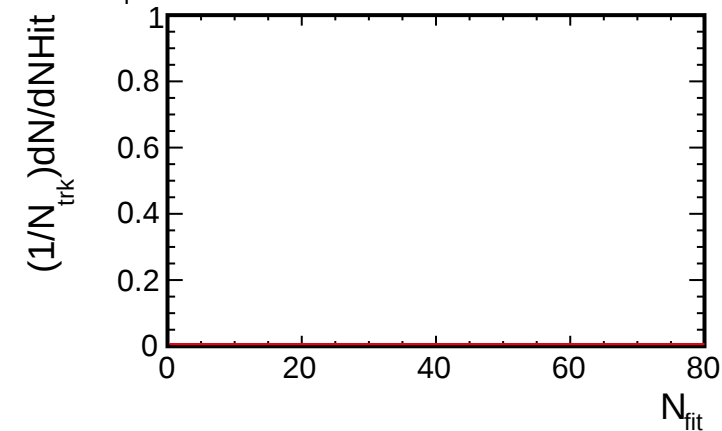
$< p_T < 5.0$ GeV/c



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)

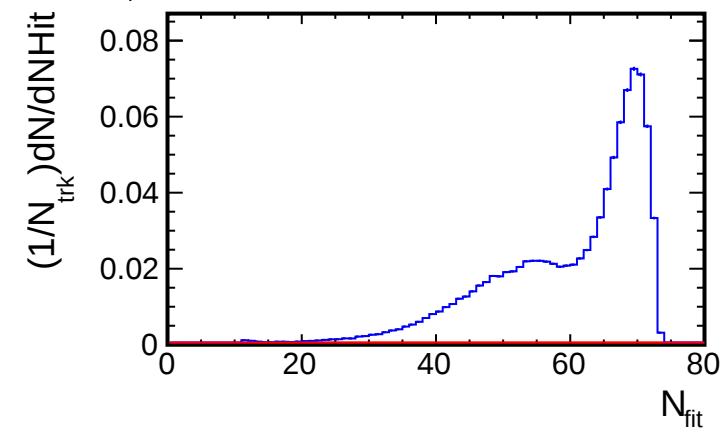
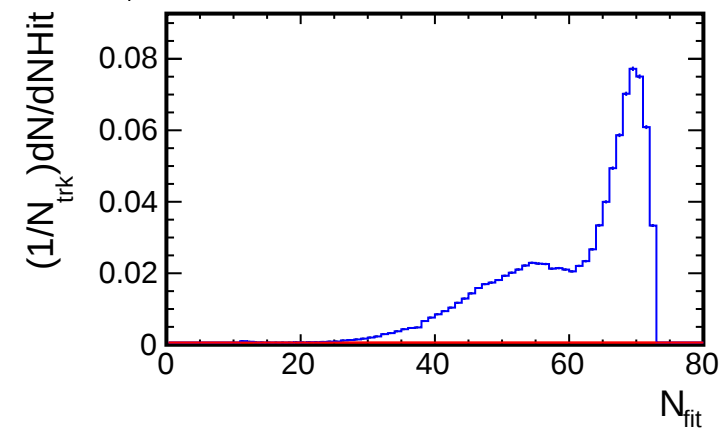
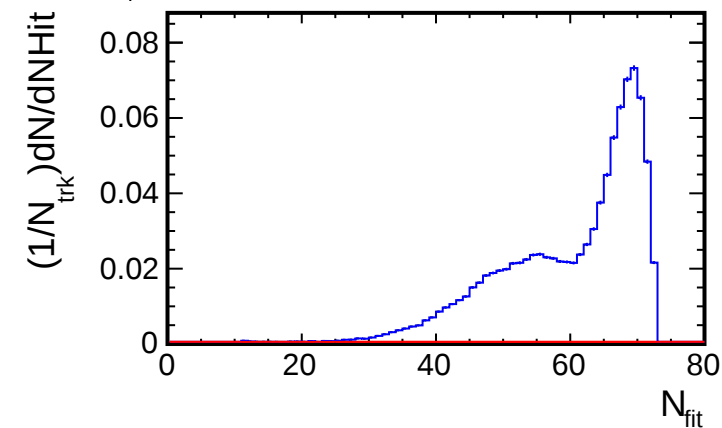
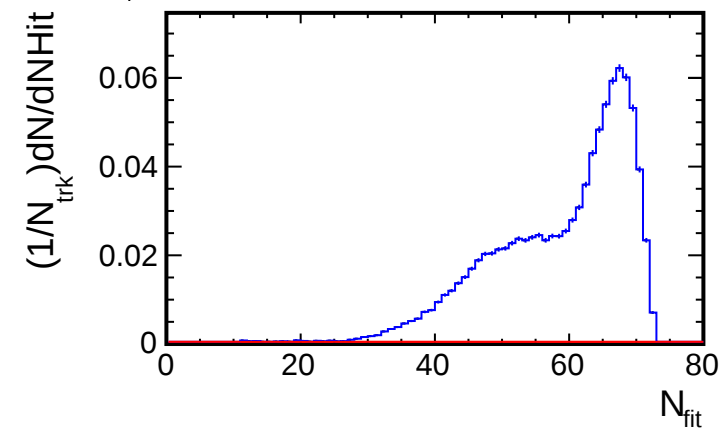
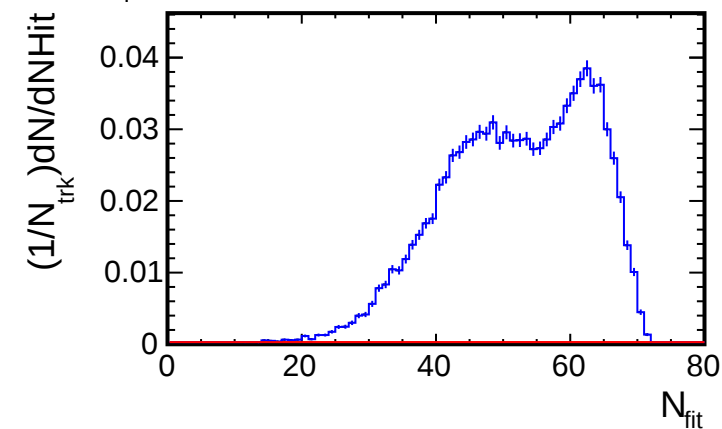
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices2, $0.1 < p_T < 0.5$ (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)

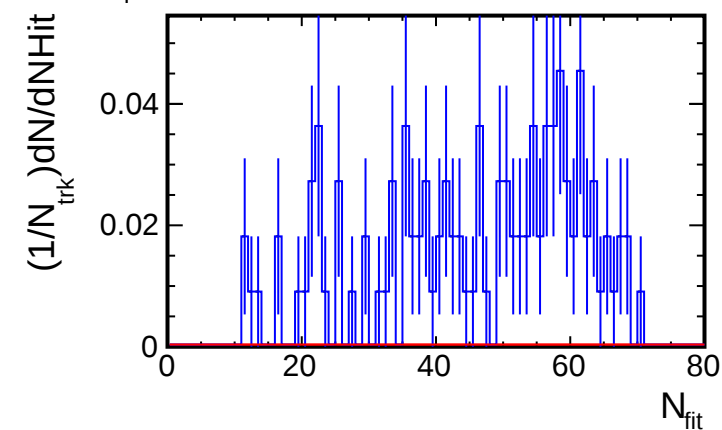
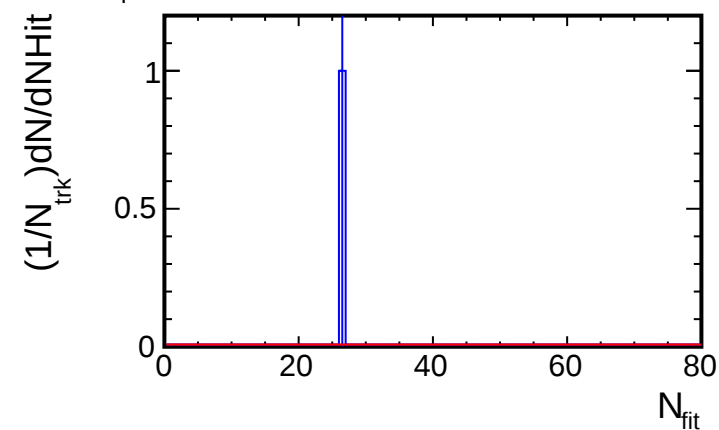
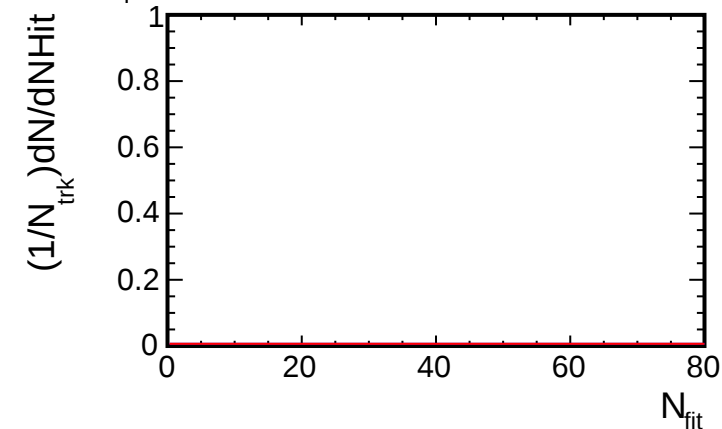
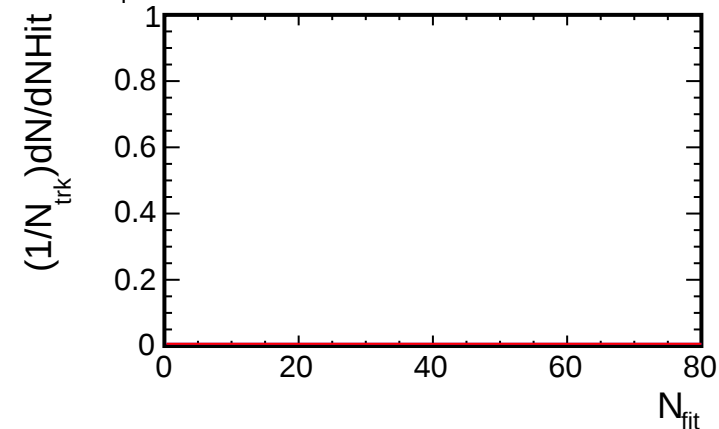
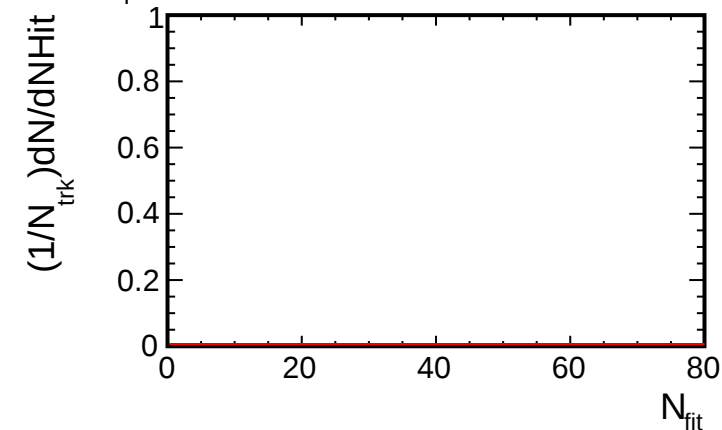
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices $1.8, 0.5 < p_T < 1.0$ (GeV/c) $1.6, 0.5 < p_T < 1.0$ (GeV/c) $1.4, 0.5 < p_T < 1.0$ (GeV/c) $1.2, 0.5 < p_T < 1.0$ (GeV/c) $1.0, 0.5 < p_T < 1.0$ (GeV/c)

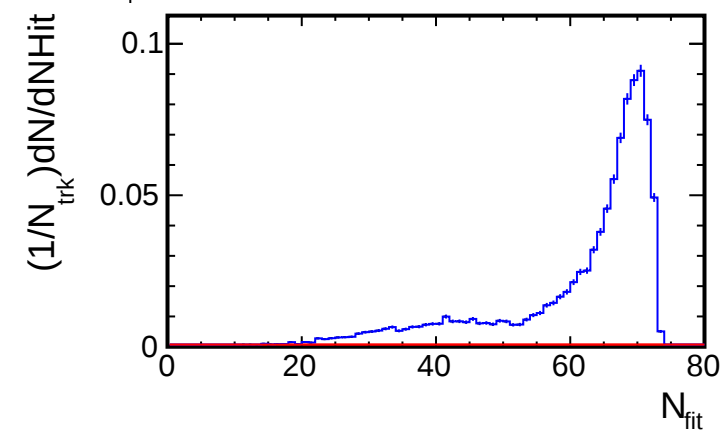
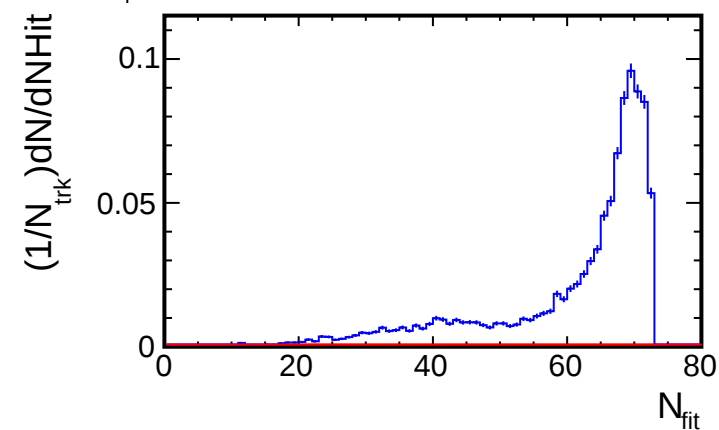
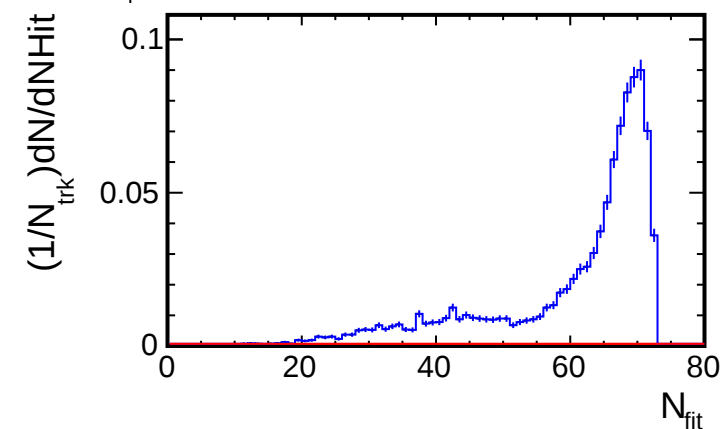
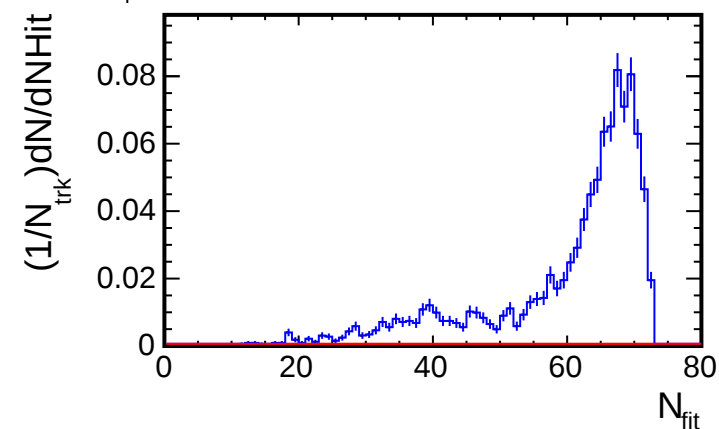
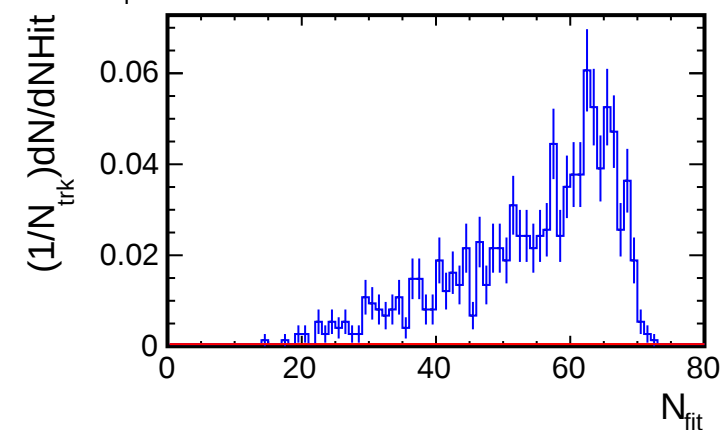
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices2, $0.5 < p_T < 1.0$ (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)

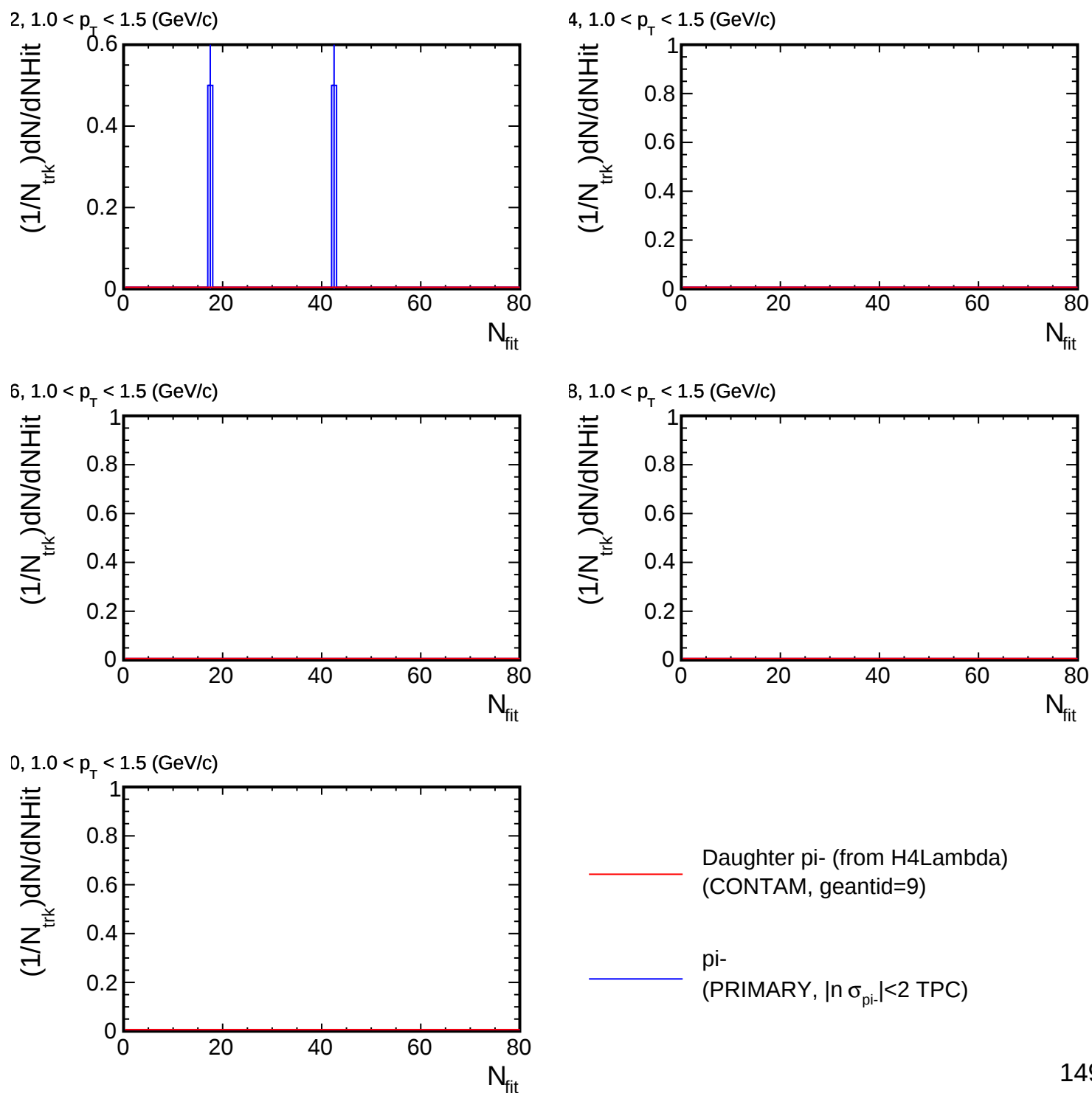
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

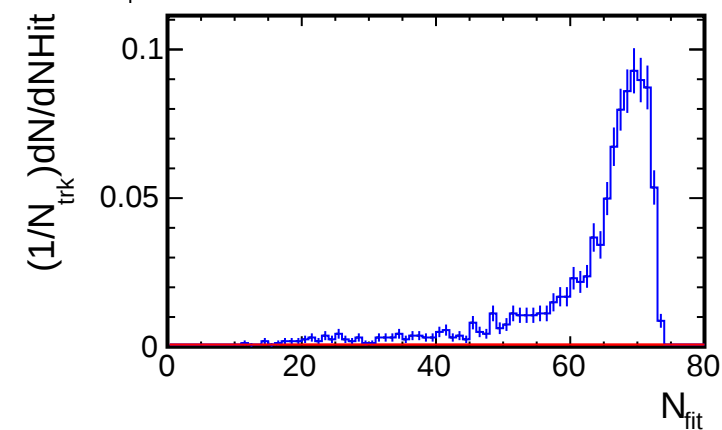
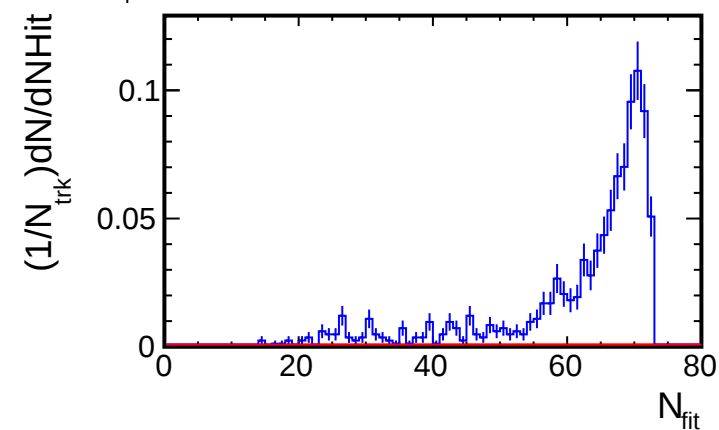
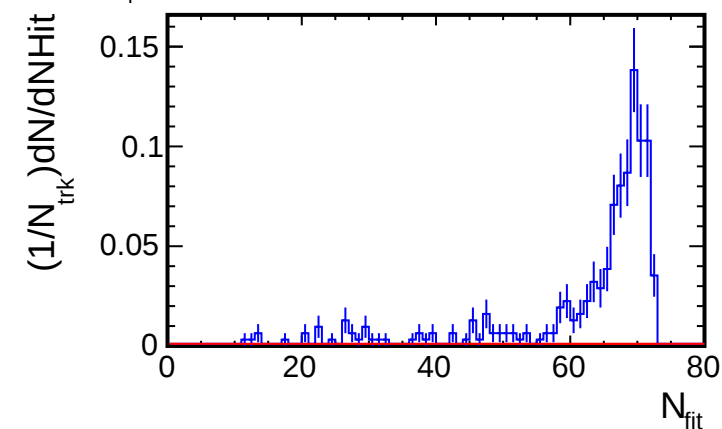
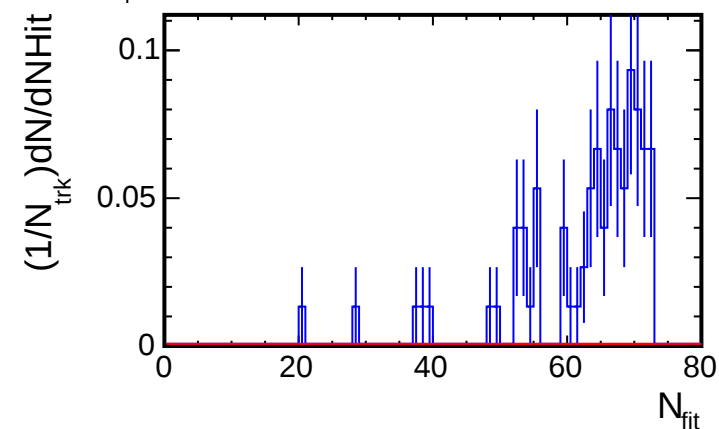
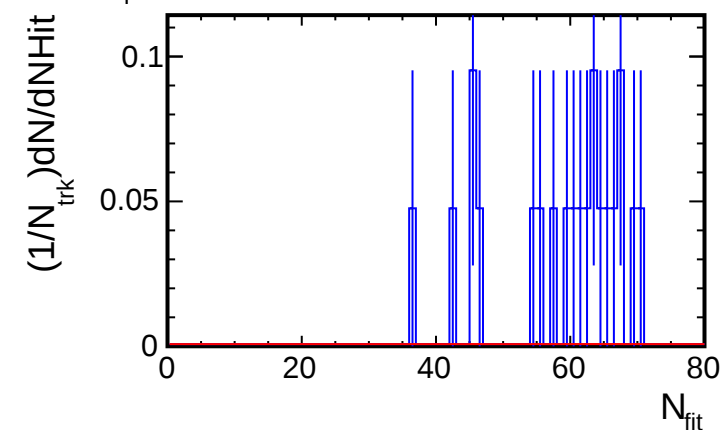
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

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 H4Lambda)
(CONTAM, geantid=9)

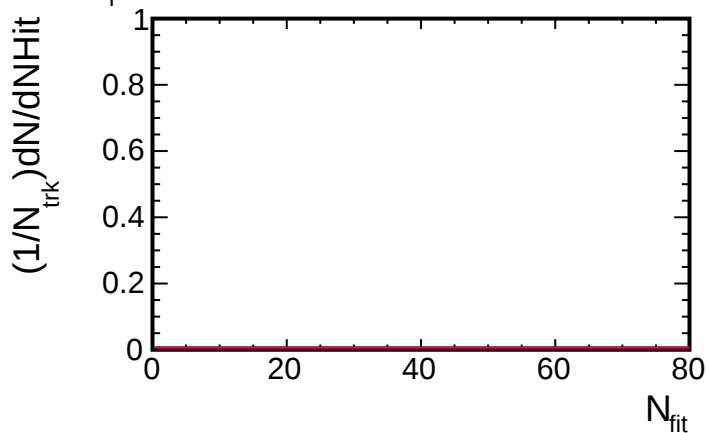
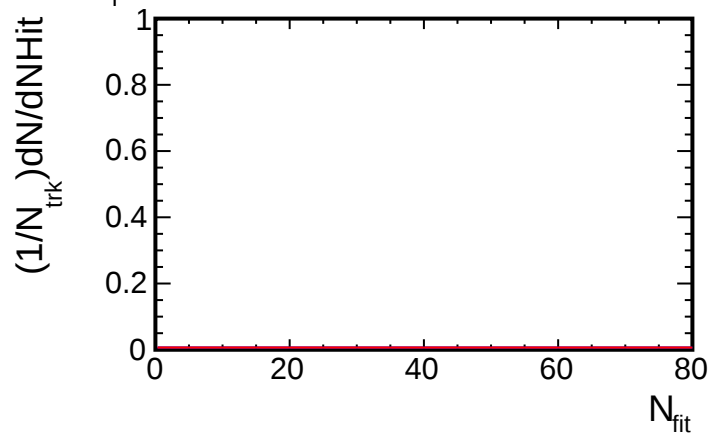
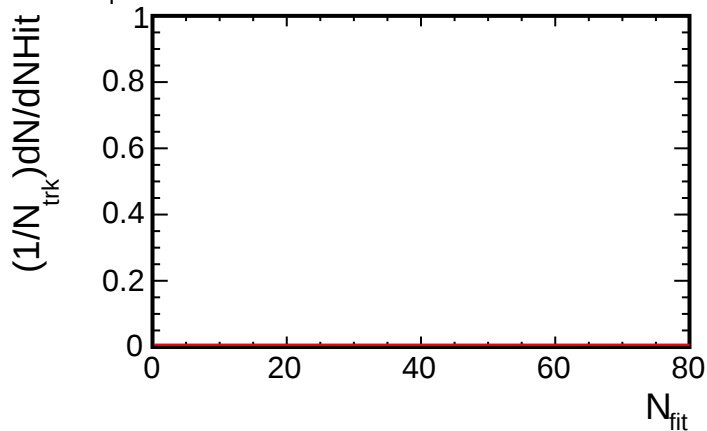
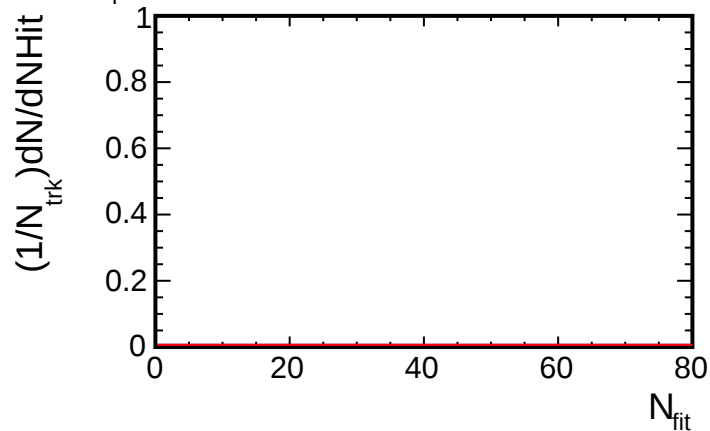
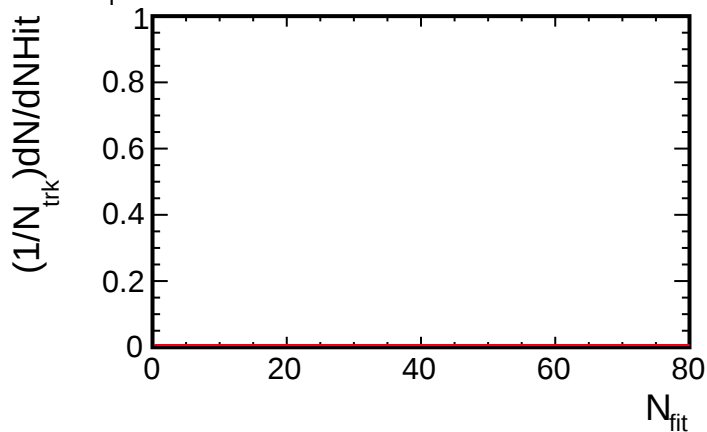
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

NHit distribution for (p_T , η) slices $1.8, 1.5 < p_T < 2.0$ (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 π^- (from H4Lambda)
(CONTAM, geantid=9)

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

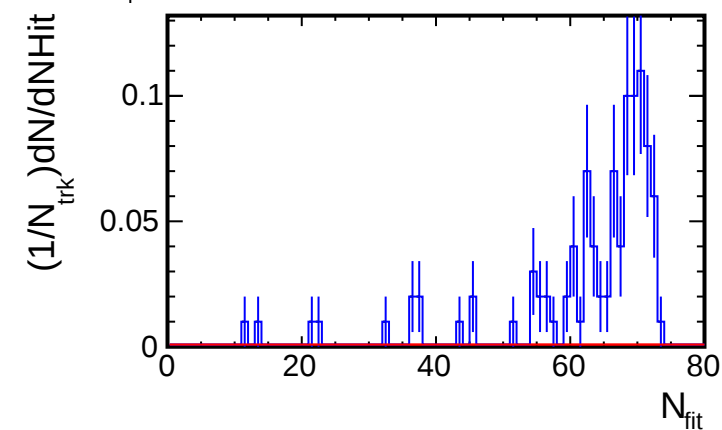
NHit distribution for (p_T , η) slices2, $1.5 < p_T < 2.0$ (GeV/c)4, $1.5 < p_T < 2.0$ (GeV/c)6, $1.5 < p_T < 2.0$ (GeV/c)8, $1.5 < p_T < 2.0$ (GeV/c)0, $1.5 < p_T < 2.0$ (GeV/c)

— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

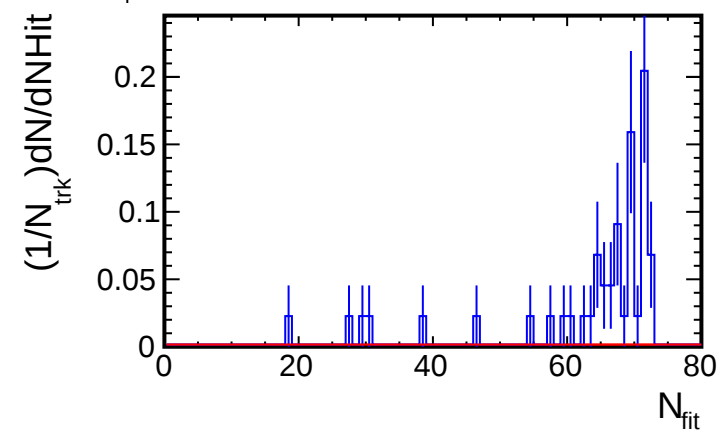
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

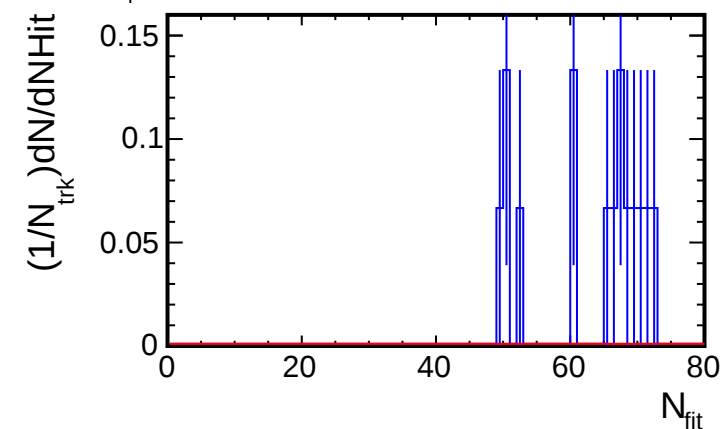
1.8, $2.0 < p_T < 2.5$ (GeV/c)



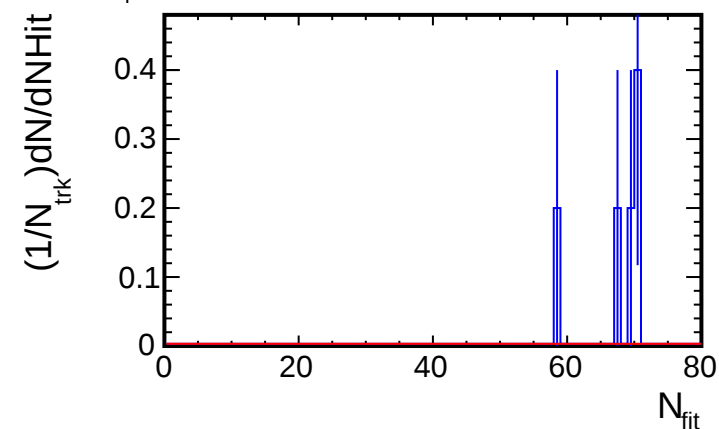
1.6, $2.0 < p_T < 2.5$ (GeV/c)



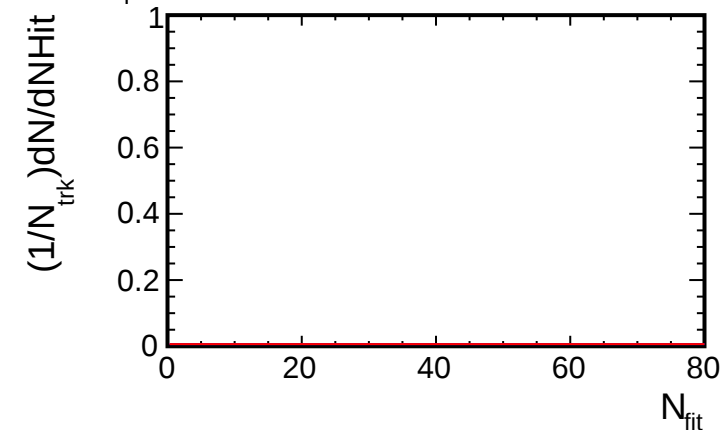
1.4, $2.0 < p_T < 2.5$ (GeV/c)



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

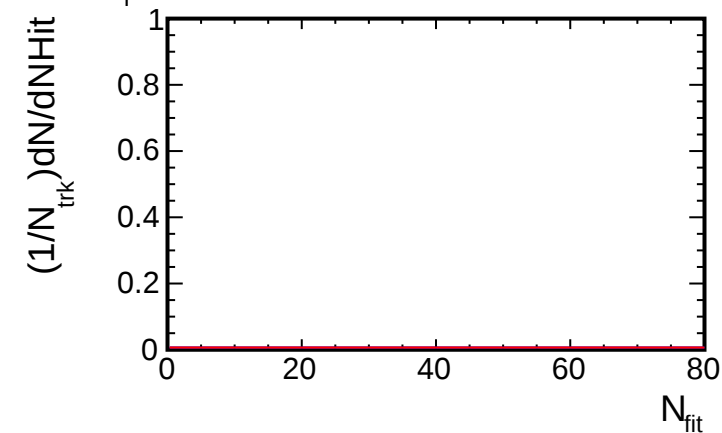
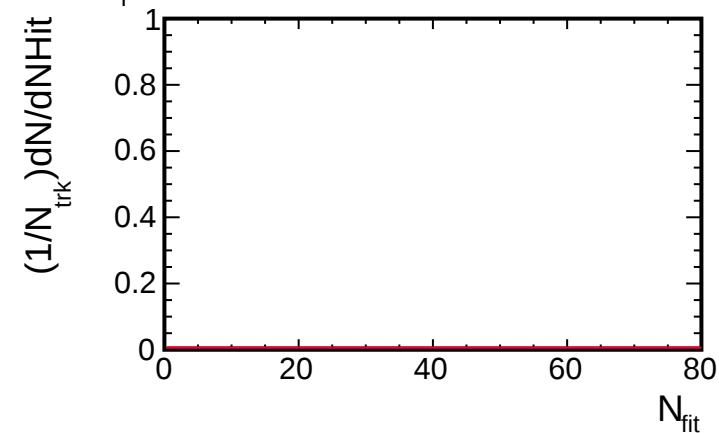
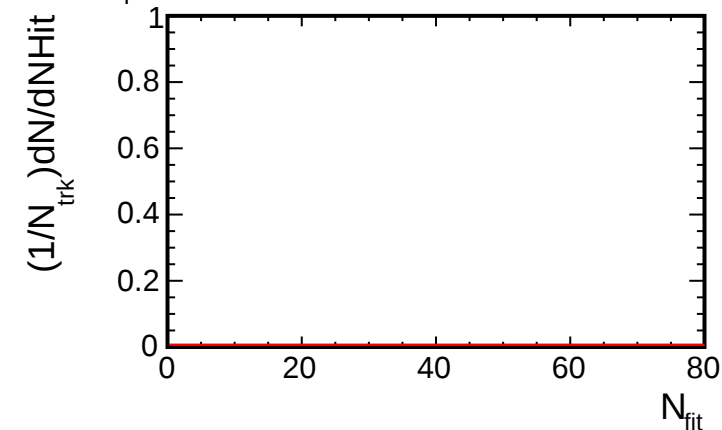
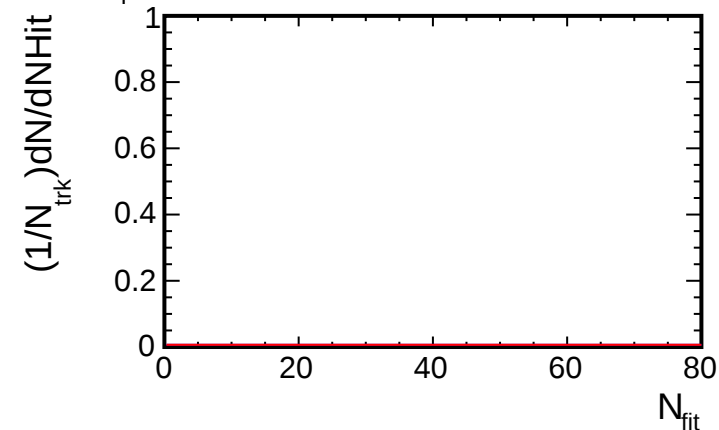
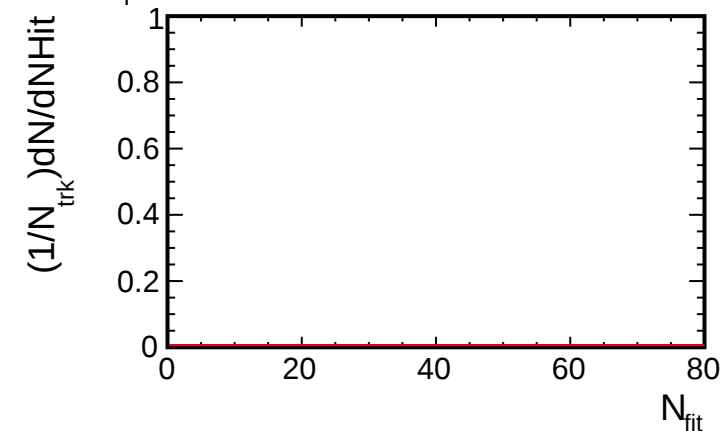


1.0, $2.0 < p_T < 2.5$ (GeV/c)



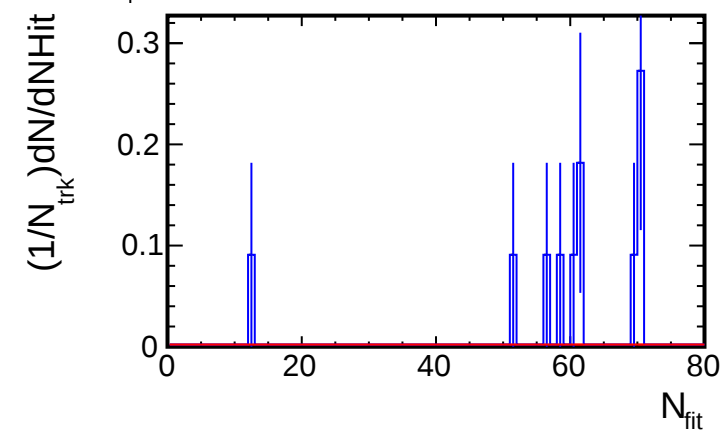
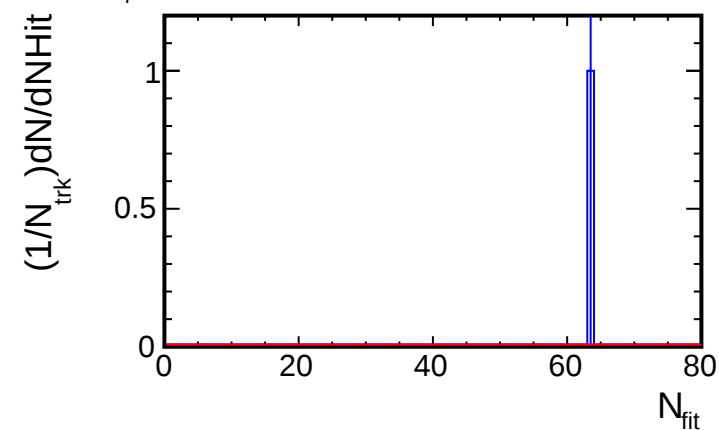
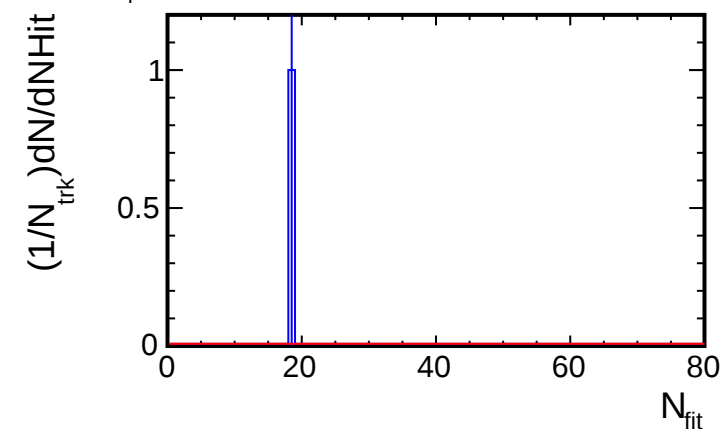
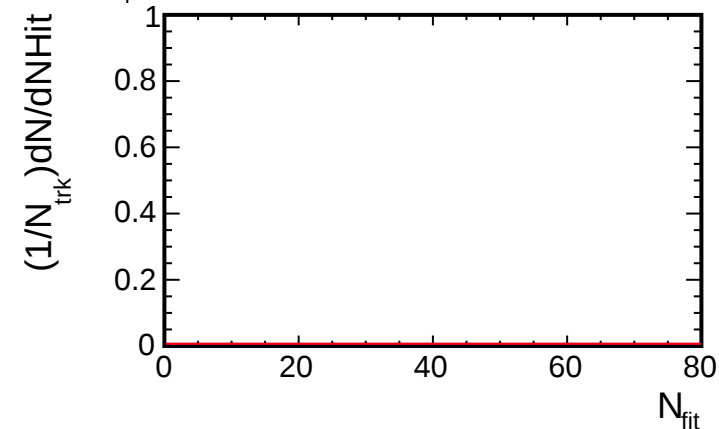
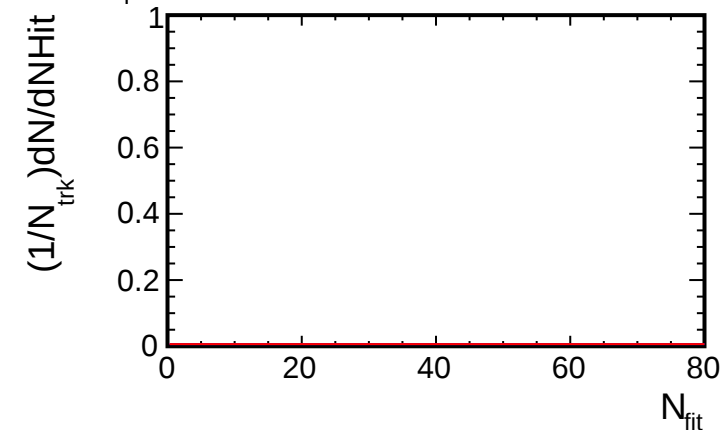
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices2, $2.0 < p_T < 2.5$ (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)

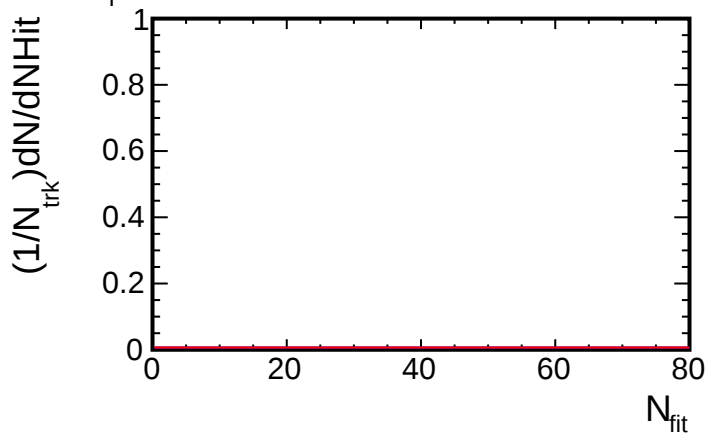
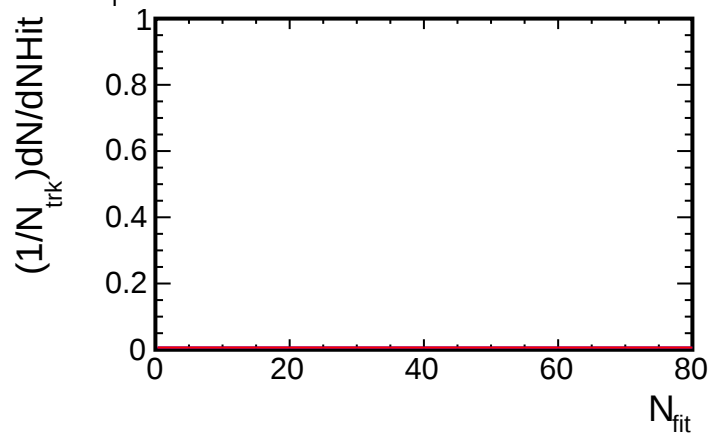
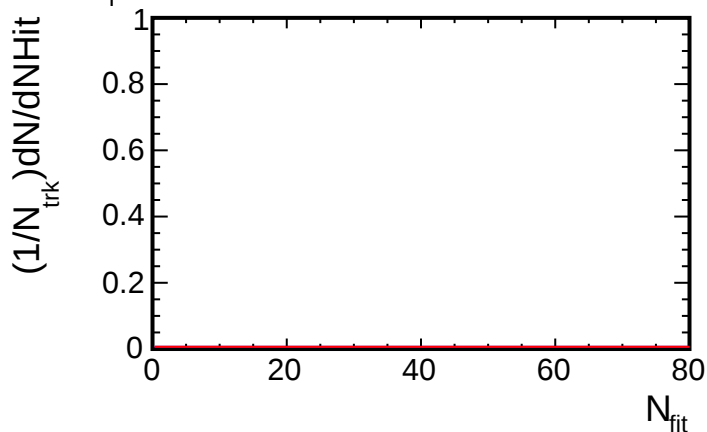
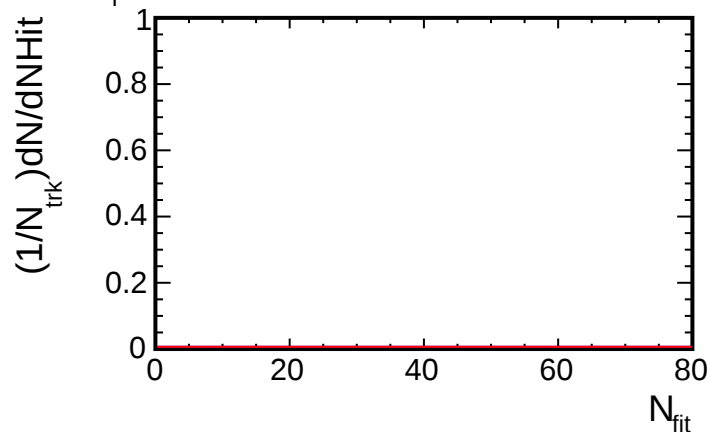
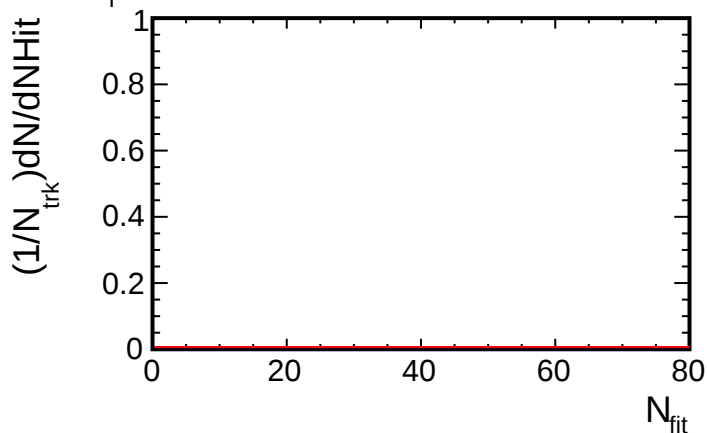
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices1.8, $2.5 < p_T < 3.0$ (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)

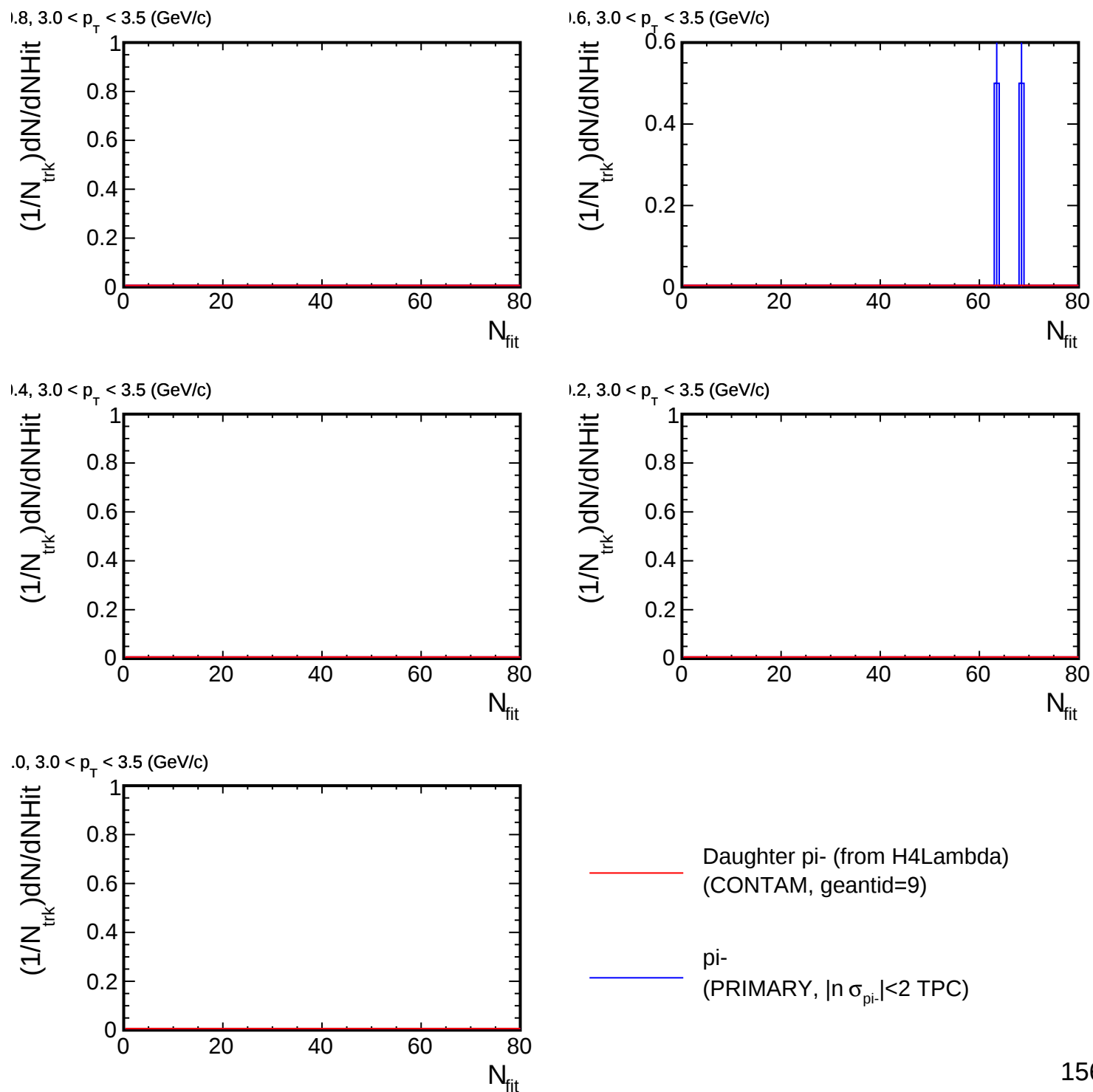
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices2, $2.5 < p_T < 3.0$ (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)

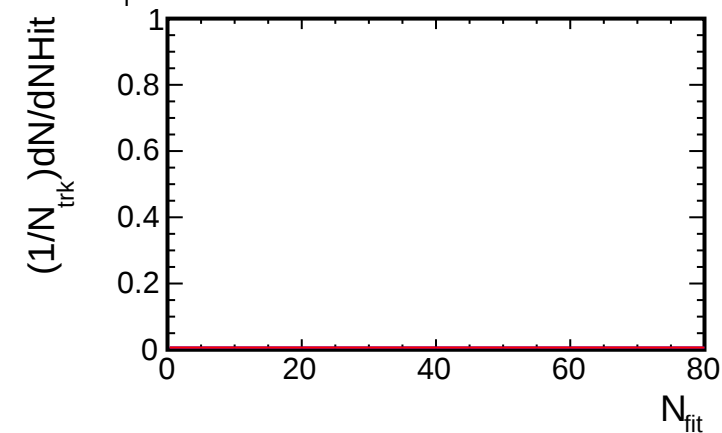
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

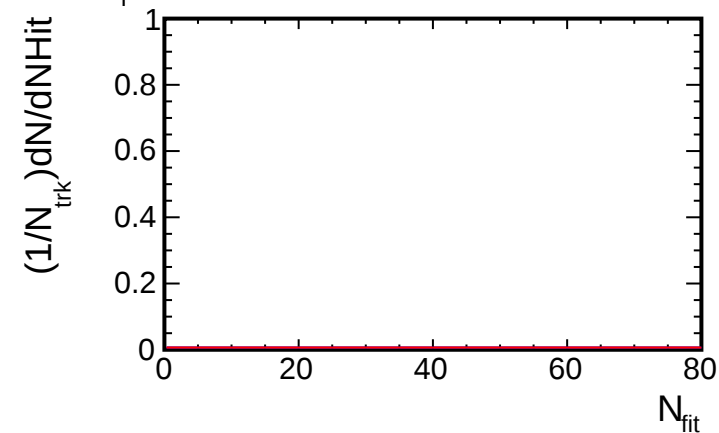
NHit distribution for (p_T , η) slices

NHit distribution for (p_T , η) slices

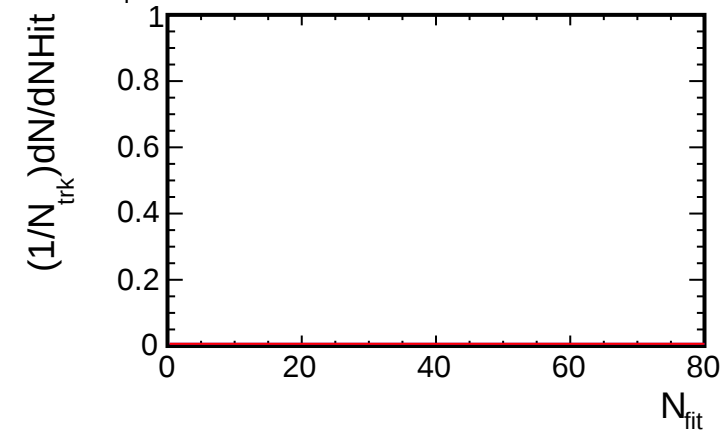
2, $3.0 < p_T < 3.5$ (GeV/c)



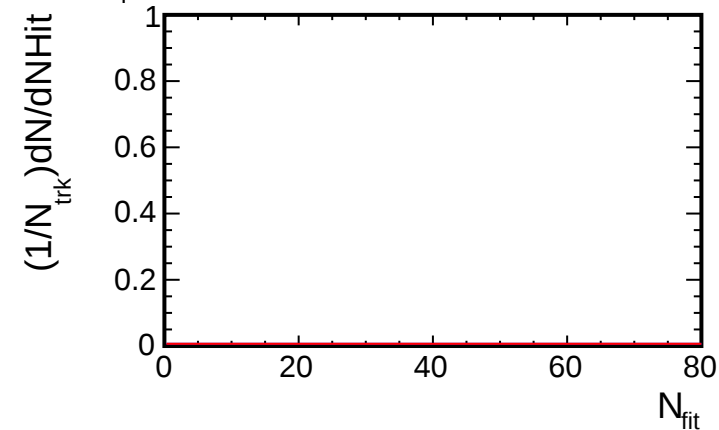
4, $3.0 < p_T < 3.5$ (GeV/c)



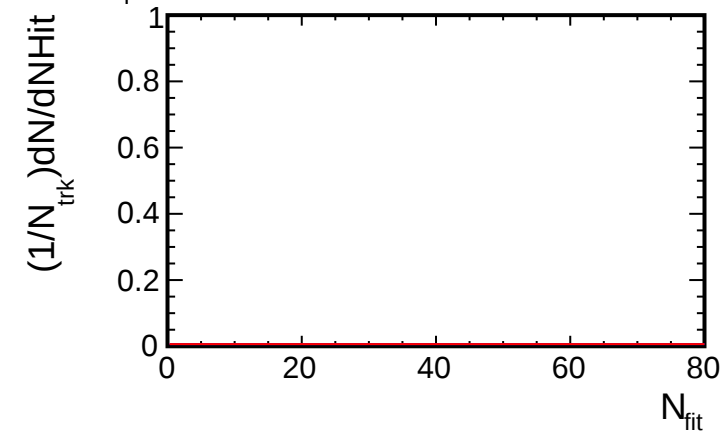
6, $3.0 < p_T < 3.5$ (GeV/c)



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

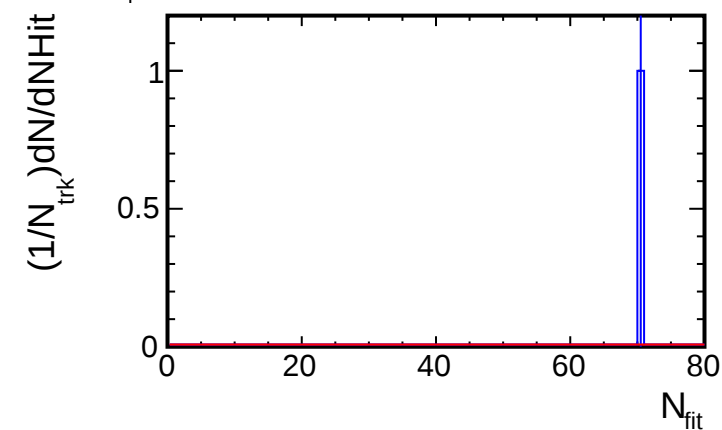
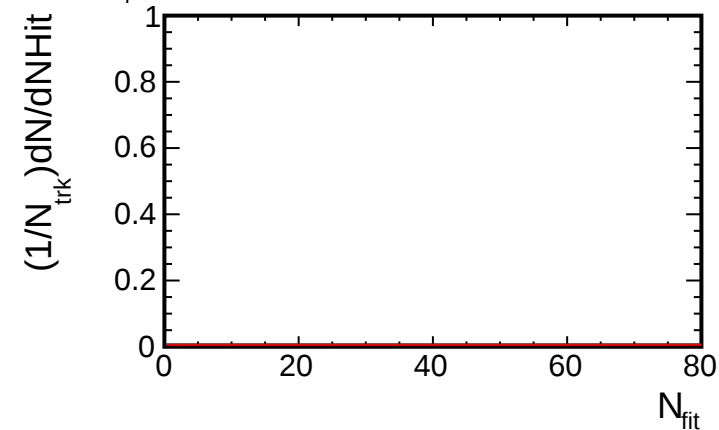
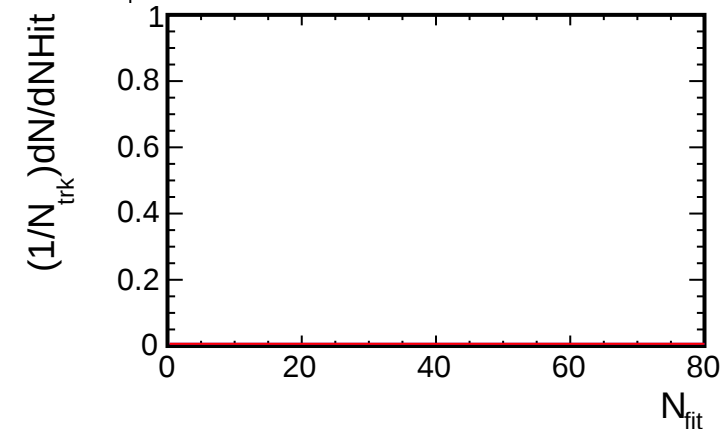
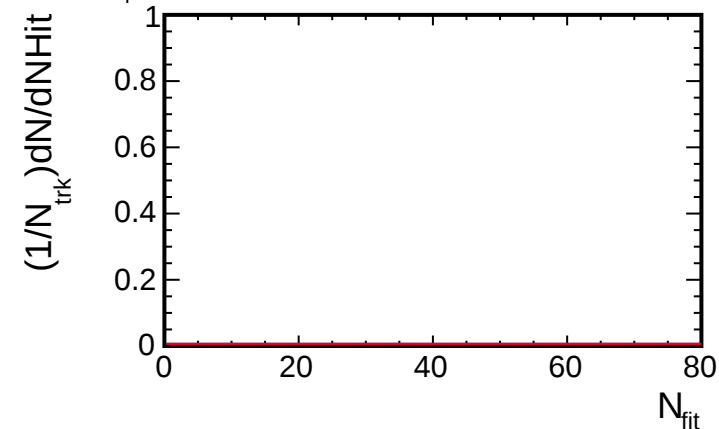
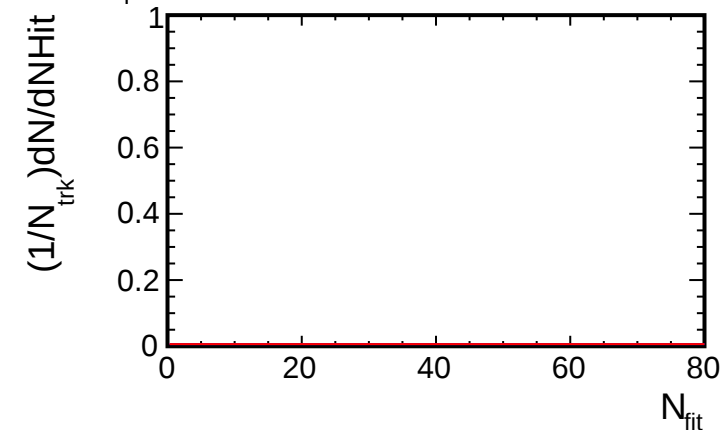


0, $3.0 < p_T < 3.5$ (GeV/c)



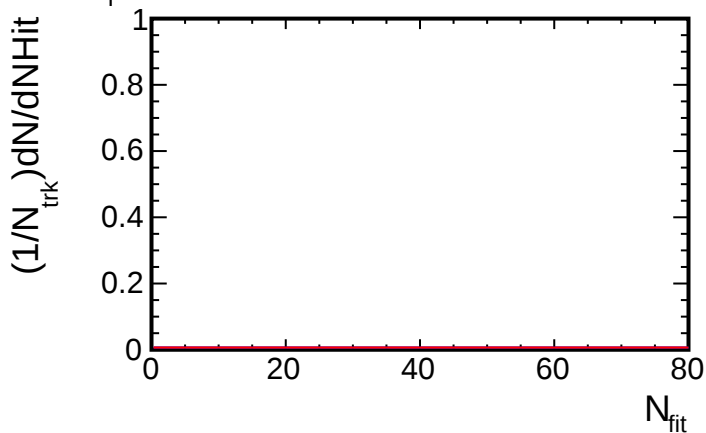
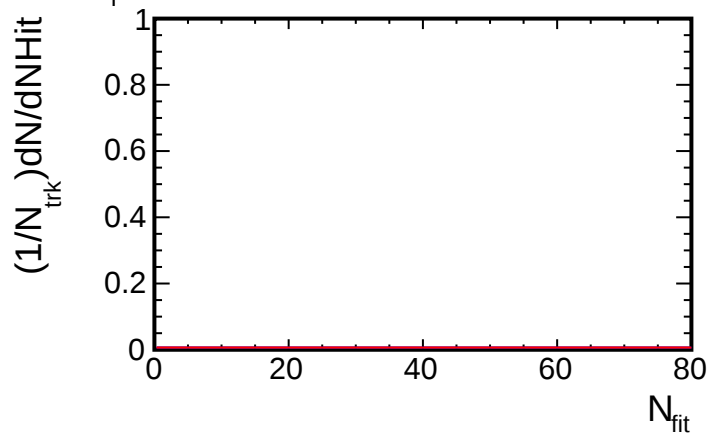
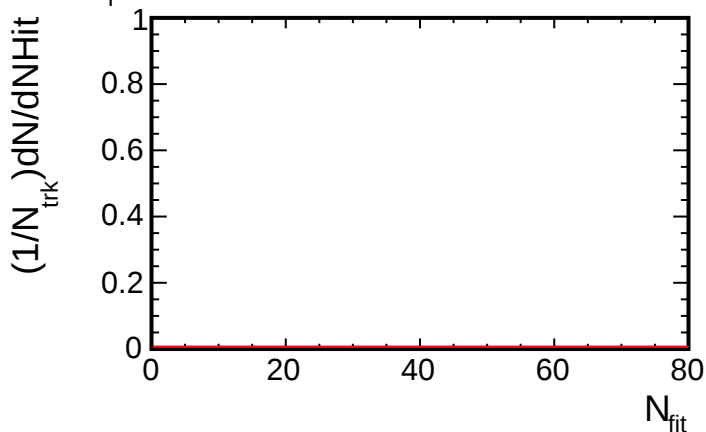
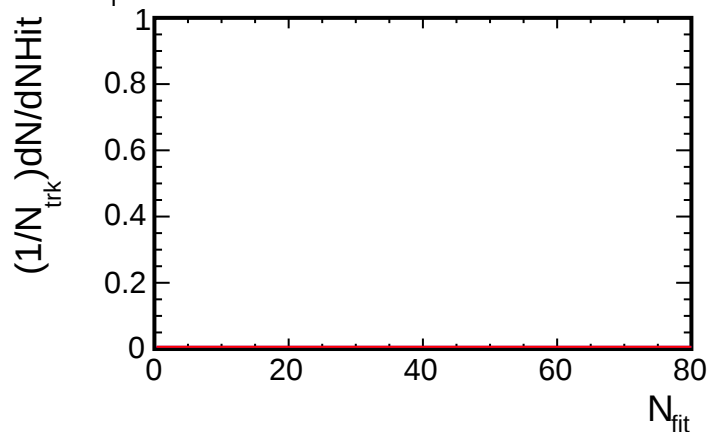
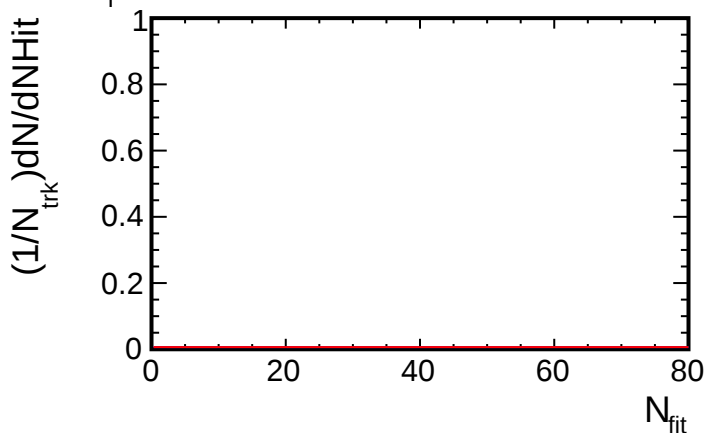
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

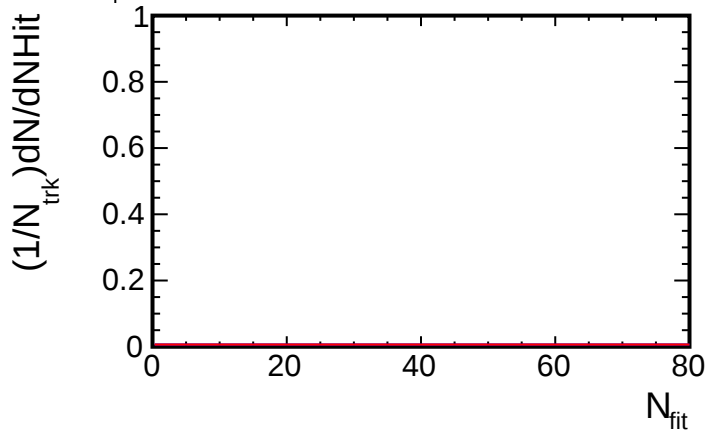
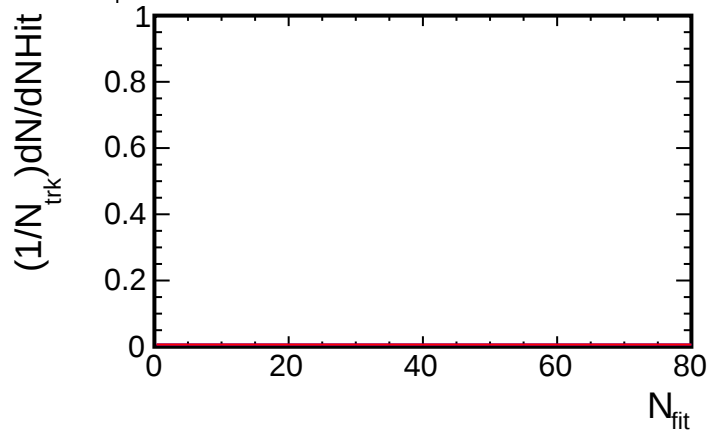
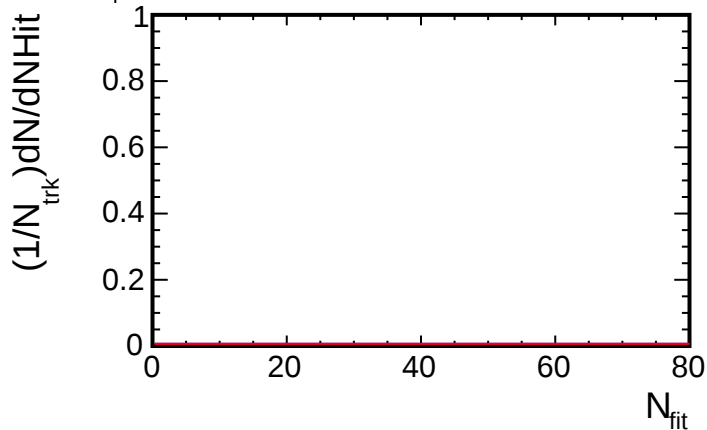
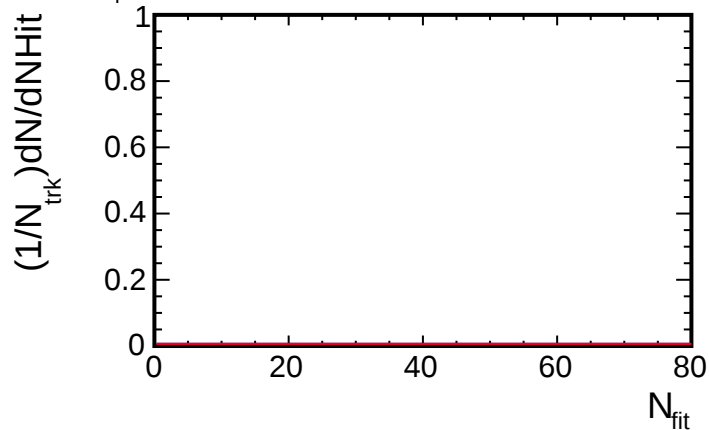
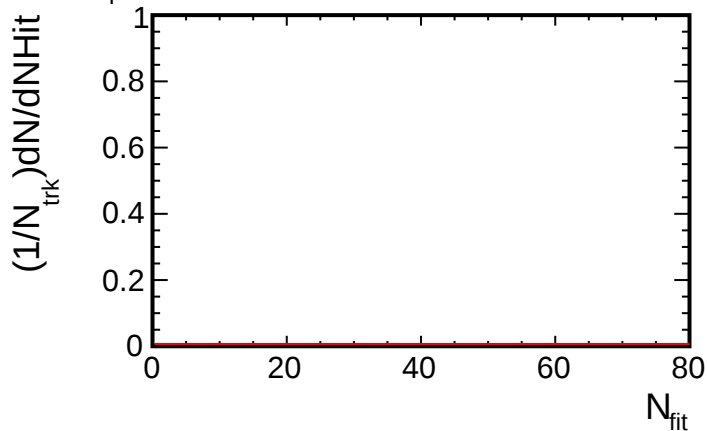
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices2, $3.5 < p_T < 4.0$ (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)

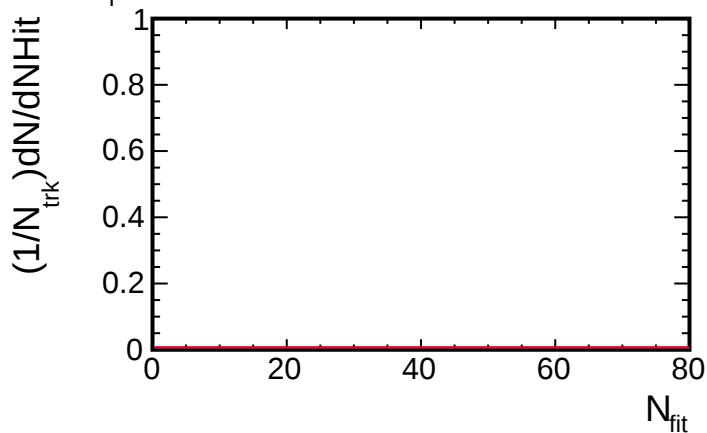
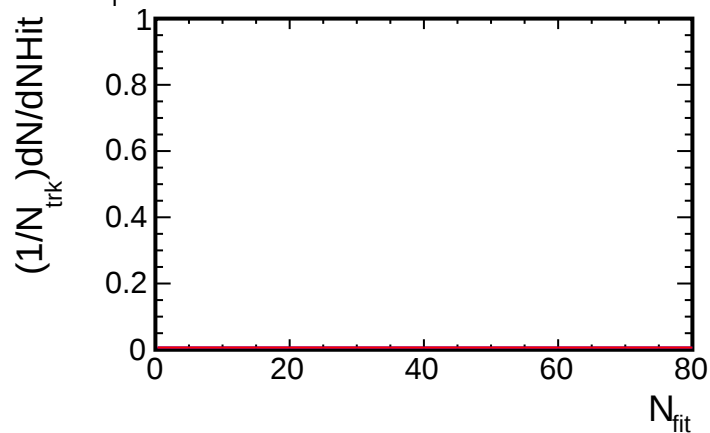
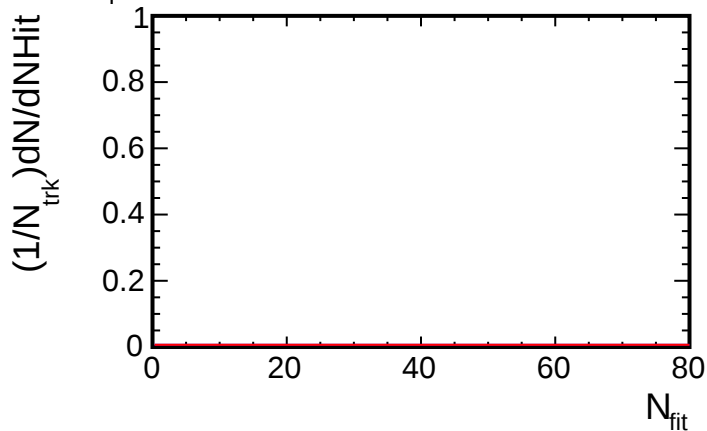
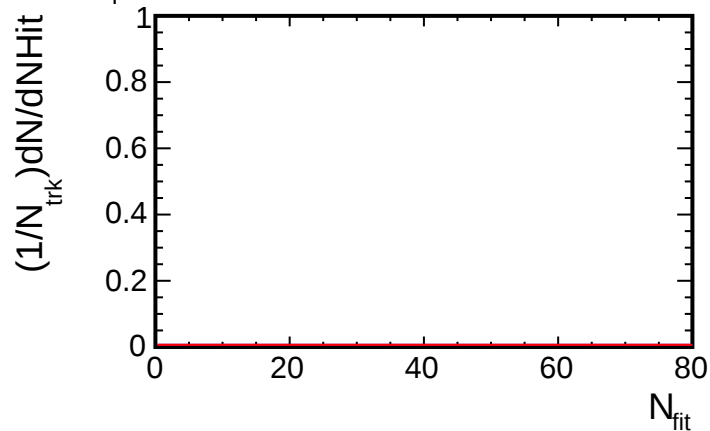
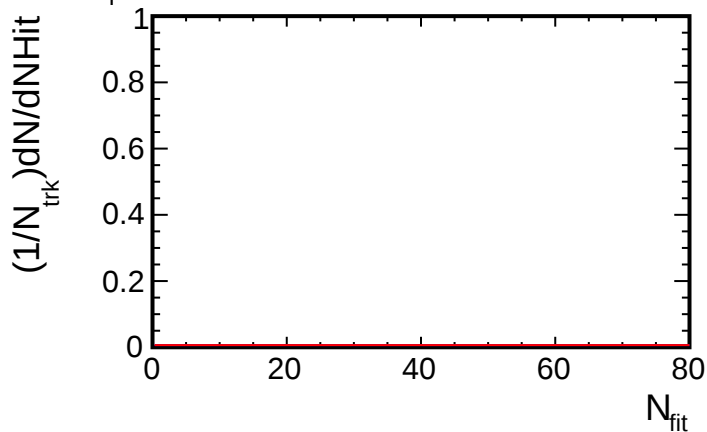
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices $1.8, 4.0 < p_T < 4.5$ (GeV/c) $1.6, 4.0 < p_T < 4.5$ (GeV/c) $1.4, 4.0 < p_T < 4.5$ (GeV/c) $1.2, 4.0 < p_T < 4.5$ (GeV/c) $1.0, 4.0 < p_T < 4.5$ (GeV/c)

— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

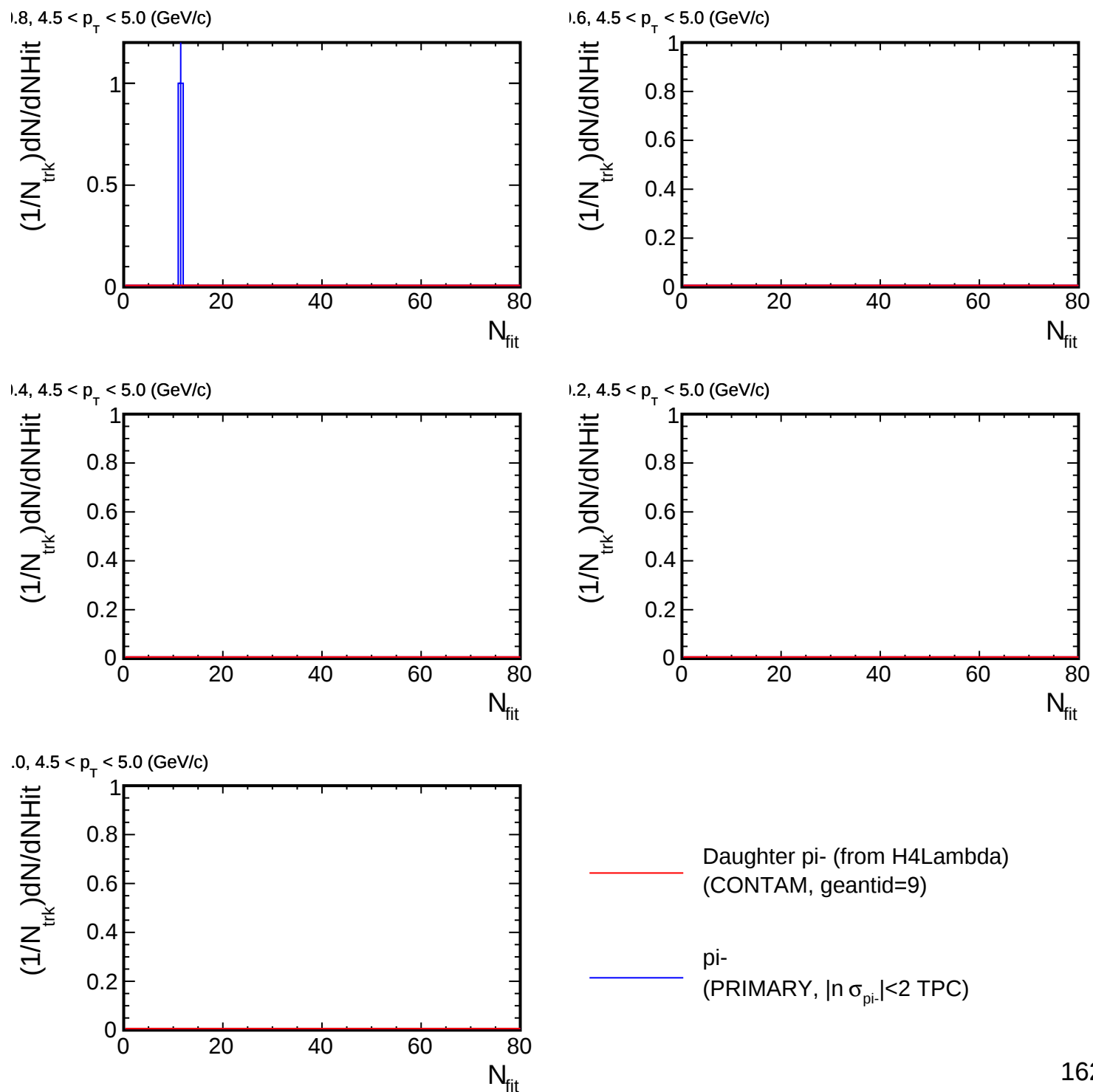
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

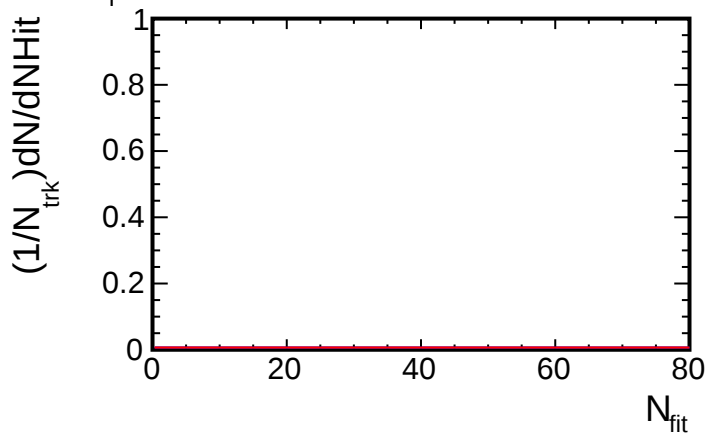
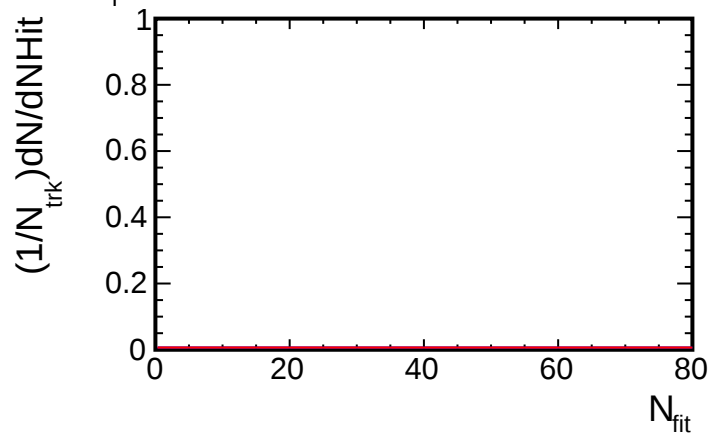
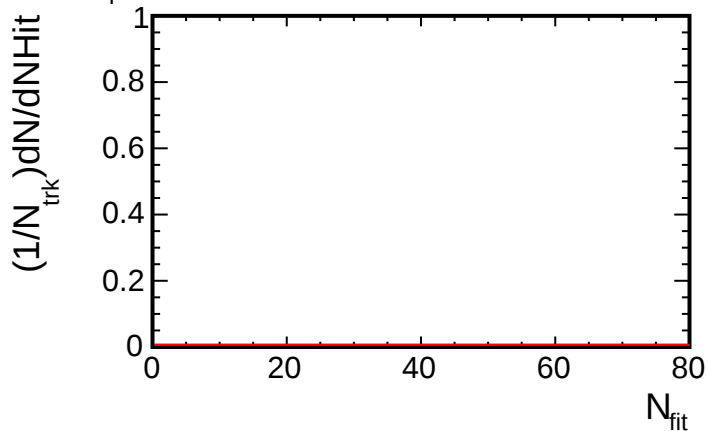
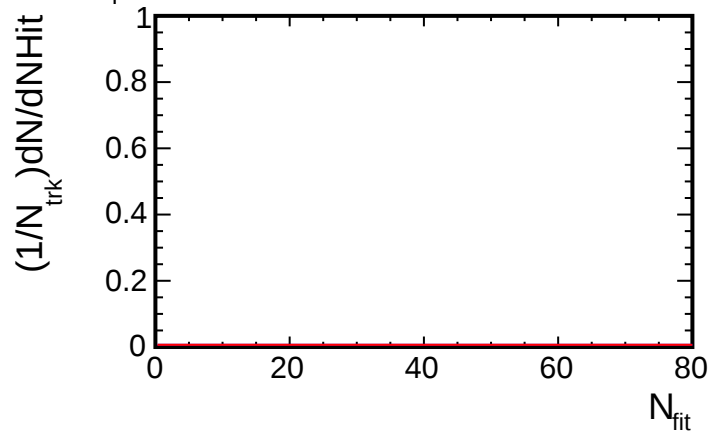
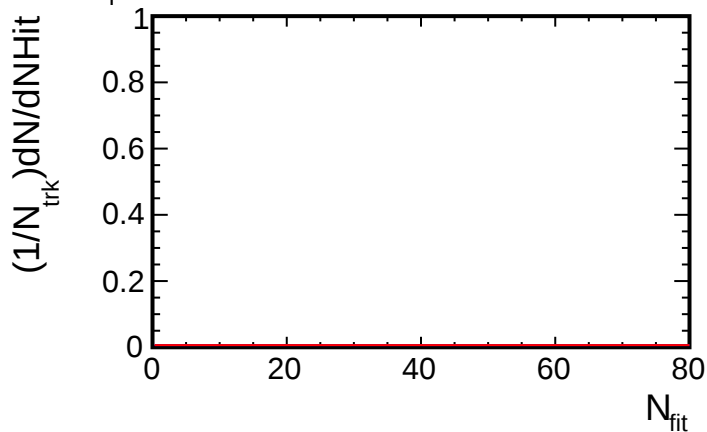
NHit distribution for (p_T , η) slices2, $4.0 < p_T < 4.5$ (GeV/c)4, $4.0 < p_T < 4.5$ (GeV/c)6, $4.0 < p_T < 4.5$ (GeV/c)8, $4.0 < p_T < 4.5$ (GeV/c)0, $4.0 < p_T < 4.5$ (GeV/c)

— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

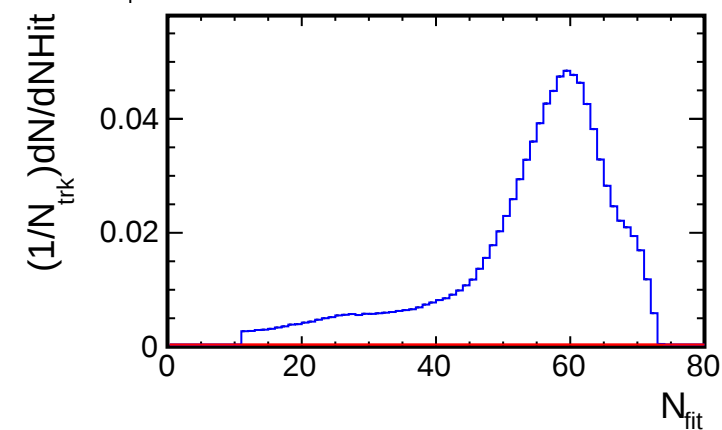
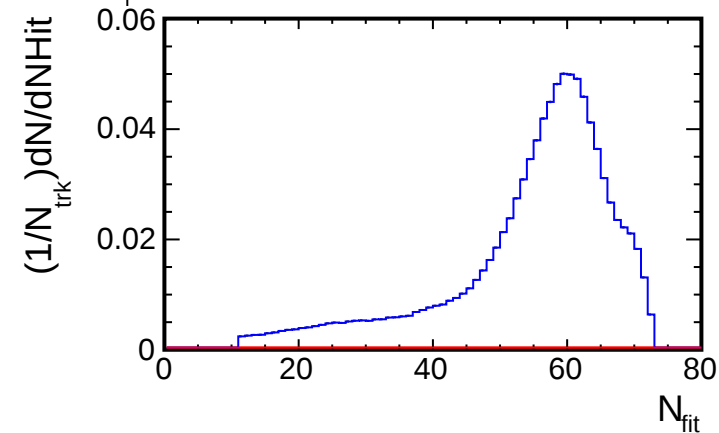
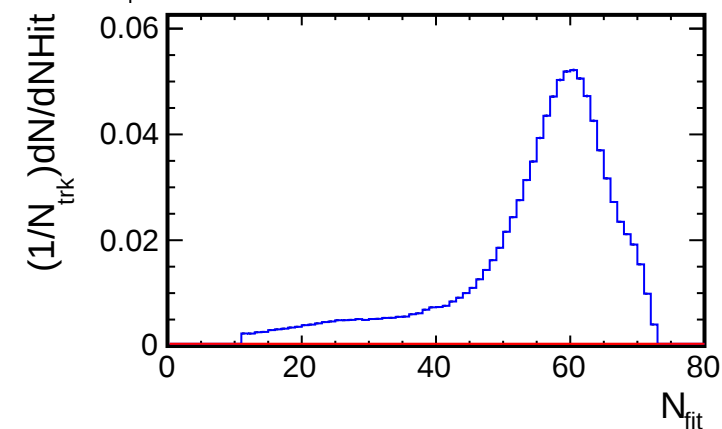
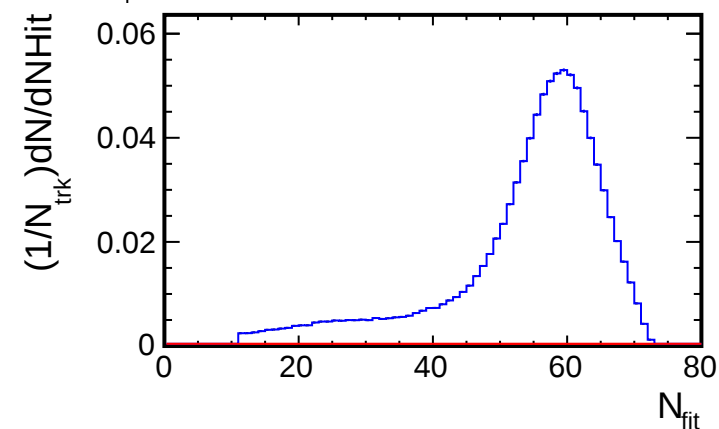
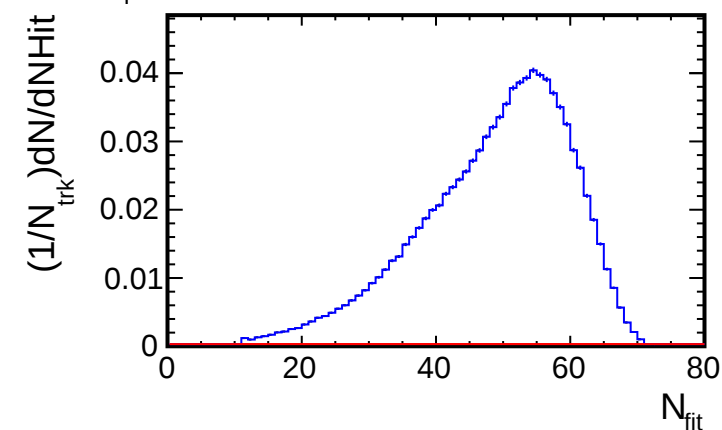
NHit distribution for (p_T , η) slices



NHit distribution for (p_T , η) slices2, $4.5 < p_T < 5.0$ (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)

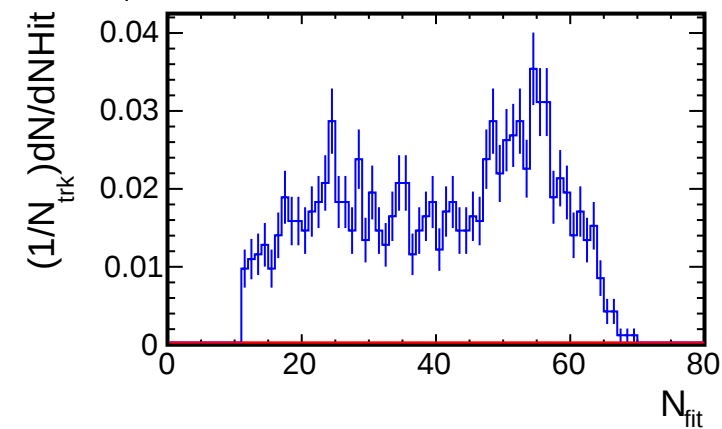
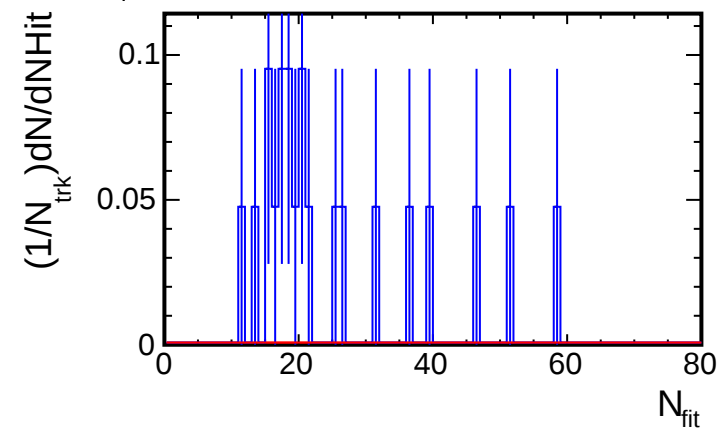
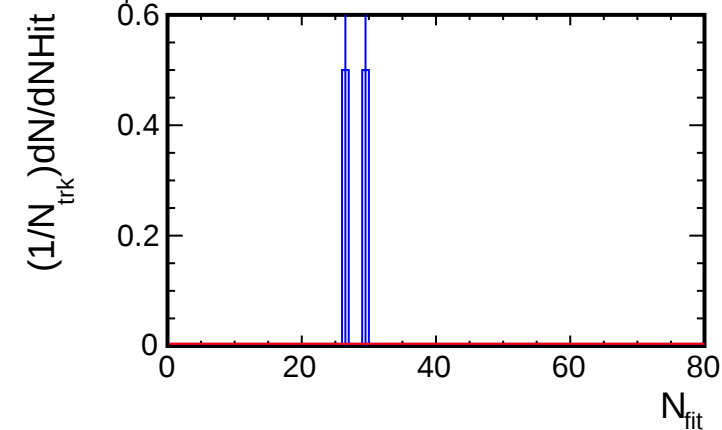
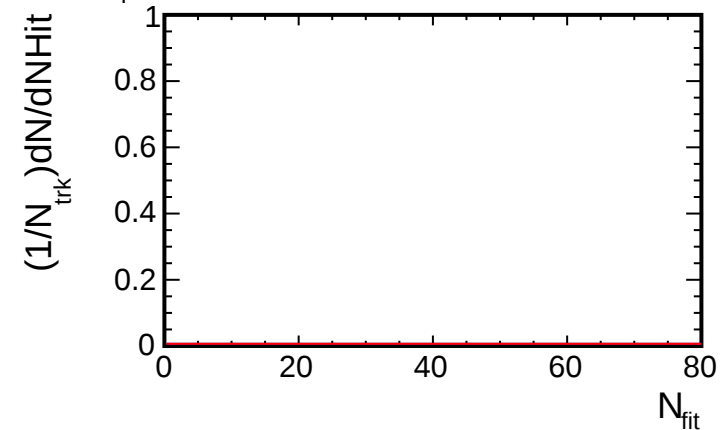
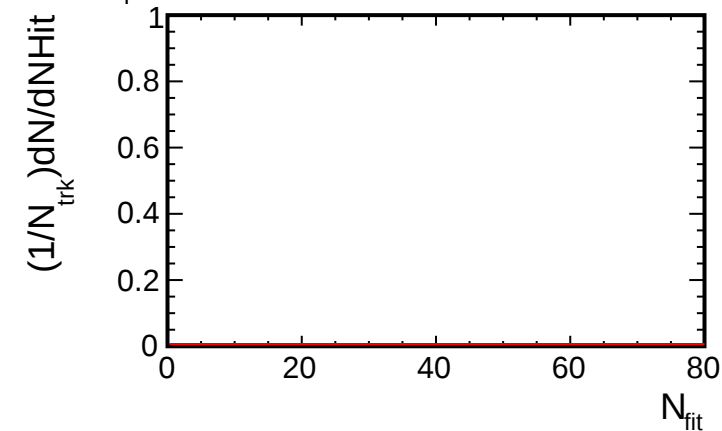
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

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)

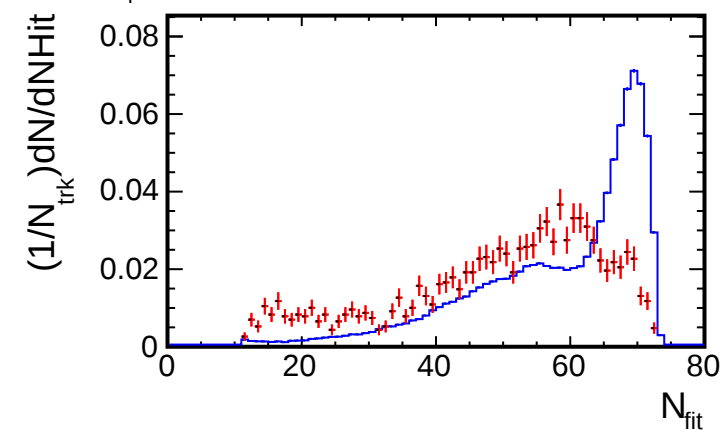
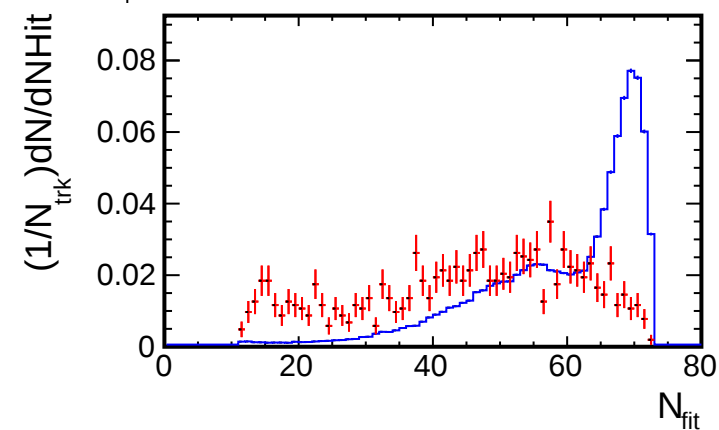
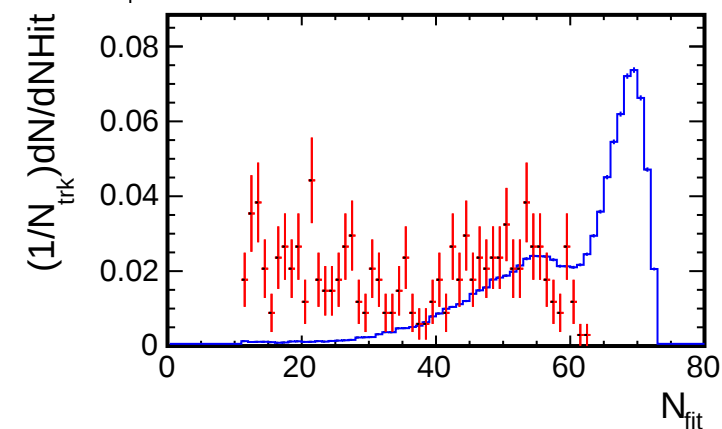
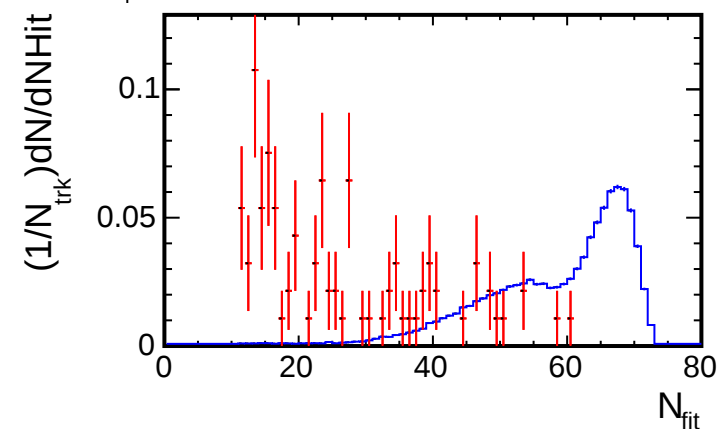
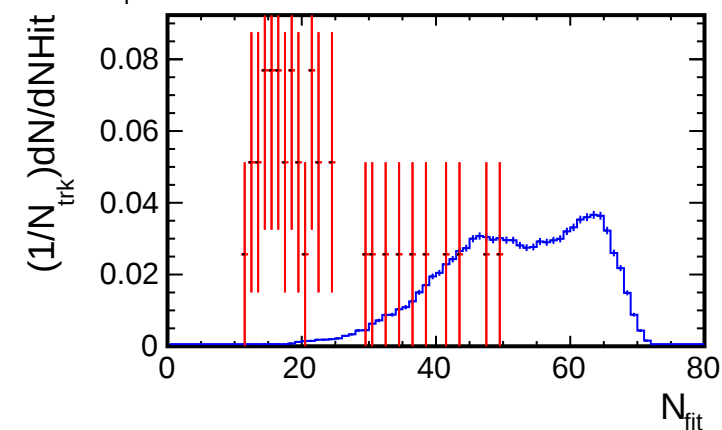
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices2, $0.1 < p_T < 0.5$ (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)

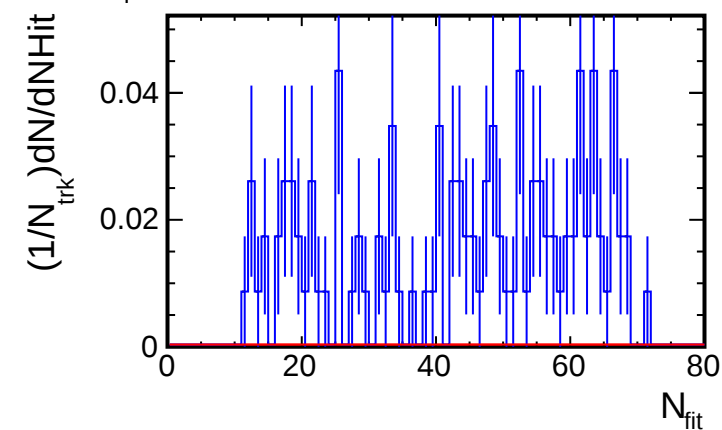
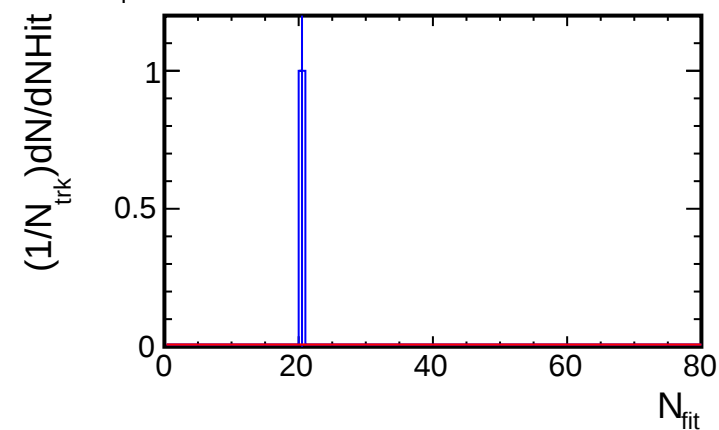
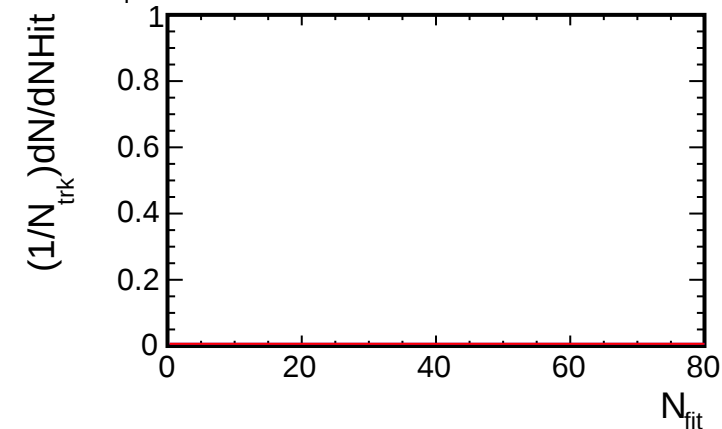
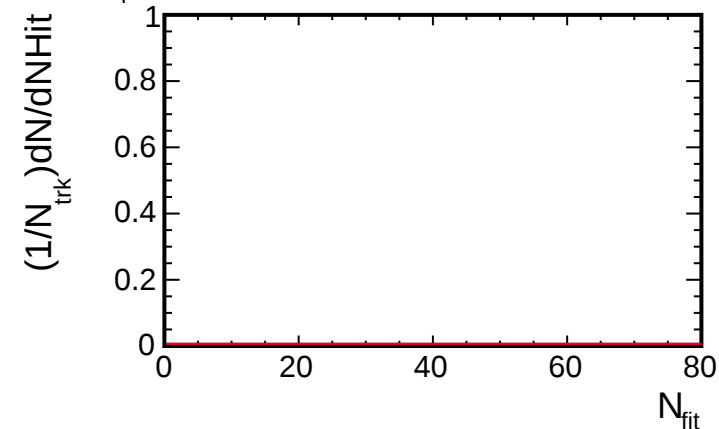
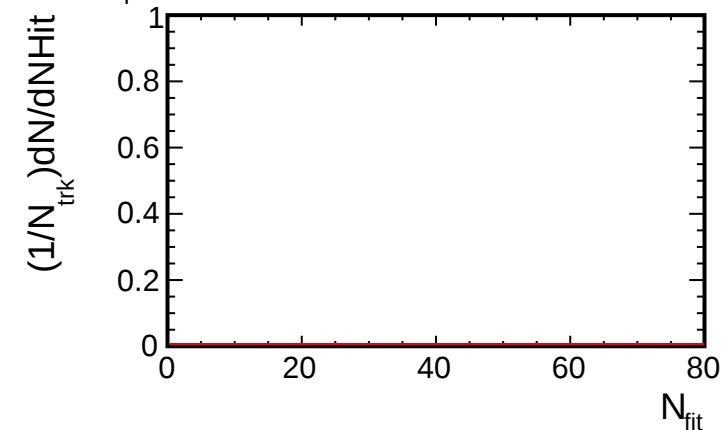
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices $1.8, 0.5 < p_T < 1.0$ (GeV/c) $1.6, 0.5 < p_T < 1.0$ (GeV/c) $1.4, 0.5 < p_T < 1.0$ (GeV/c) $1.2, 0.5 < p_T < 1.0$ (GeV/c) $1.0, 0.5 < p_T < 1.0$ (GeV/c)

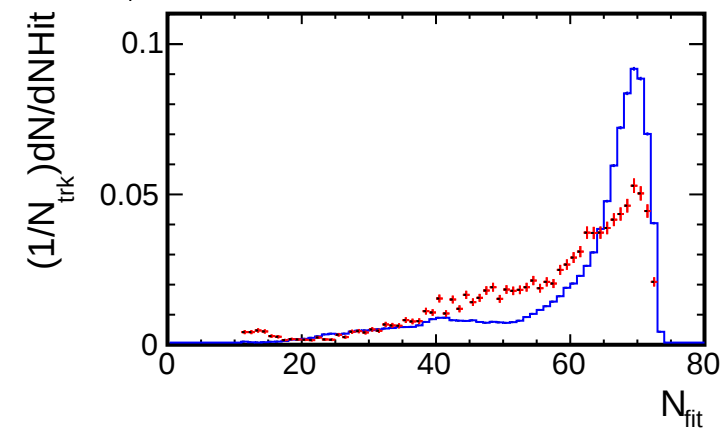
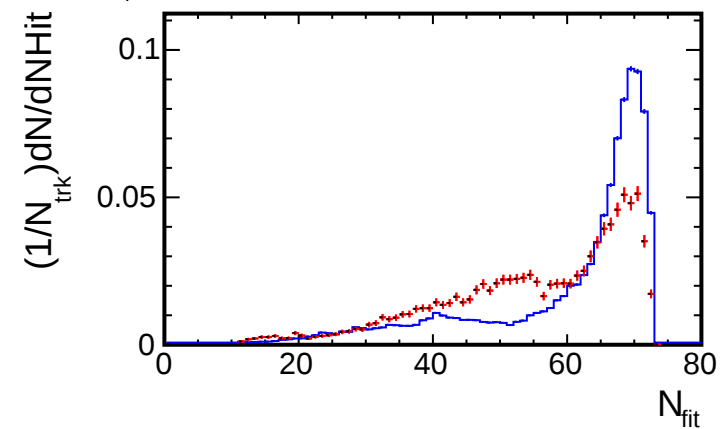
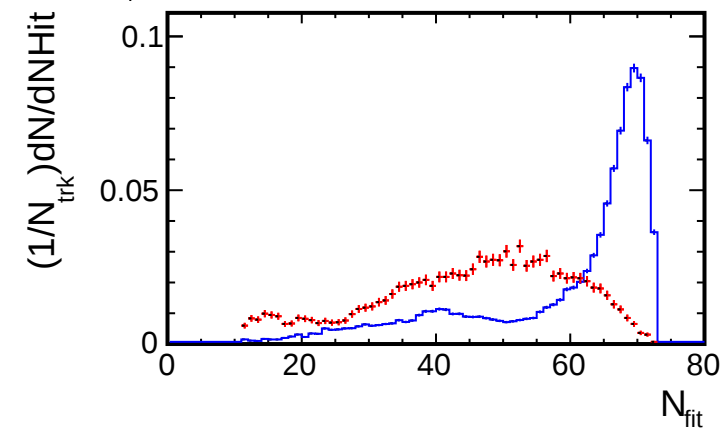
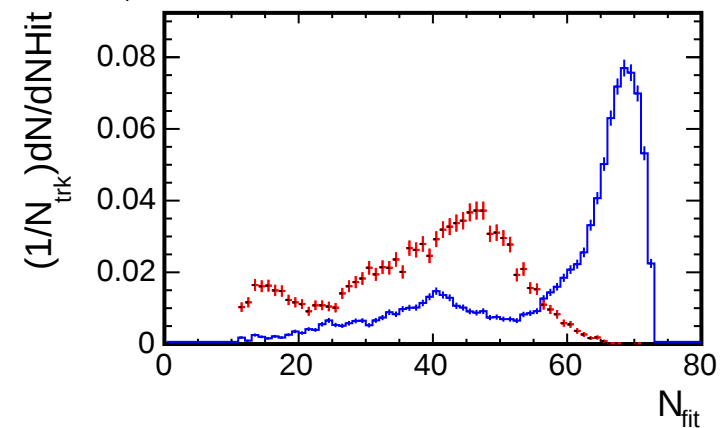
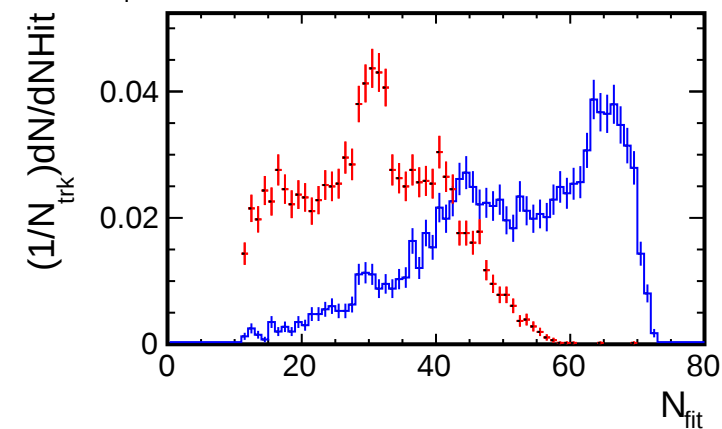
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices2, $0.5 < p_T < 1.0$ (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)

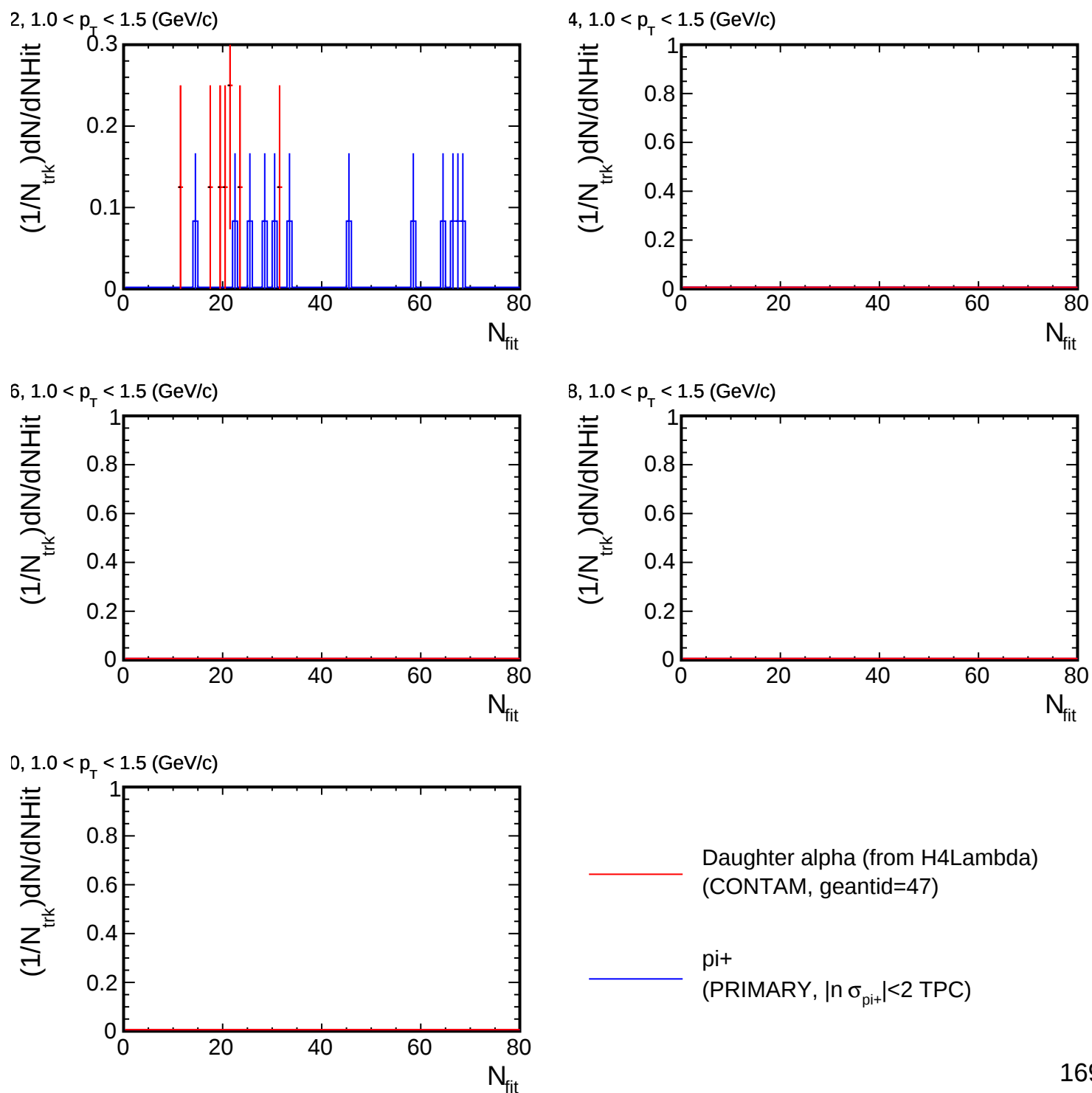
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

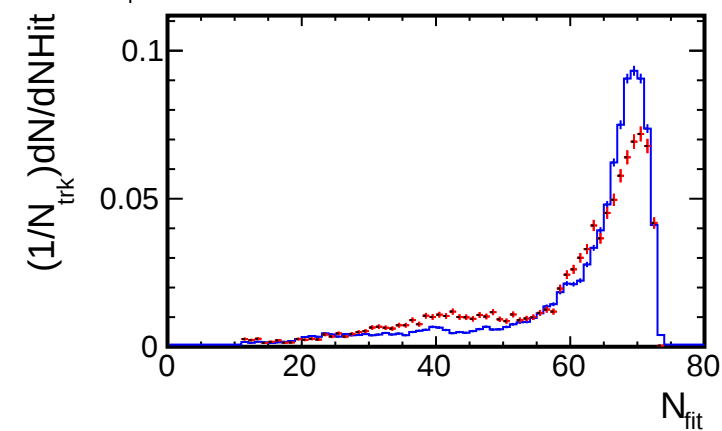
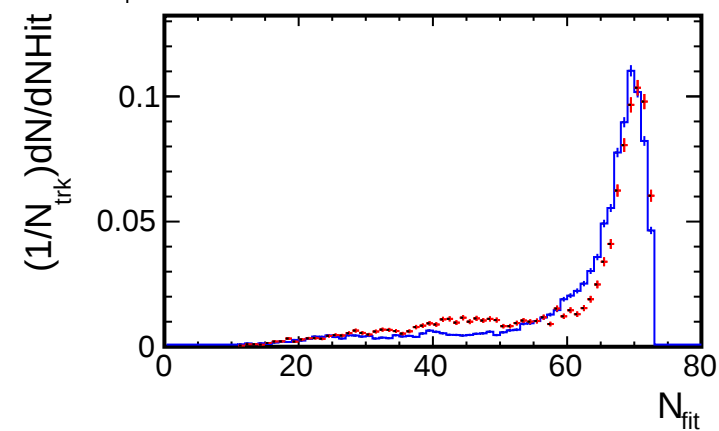
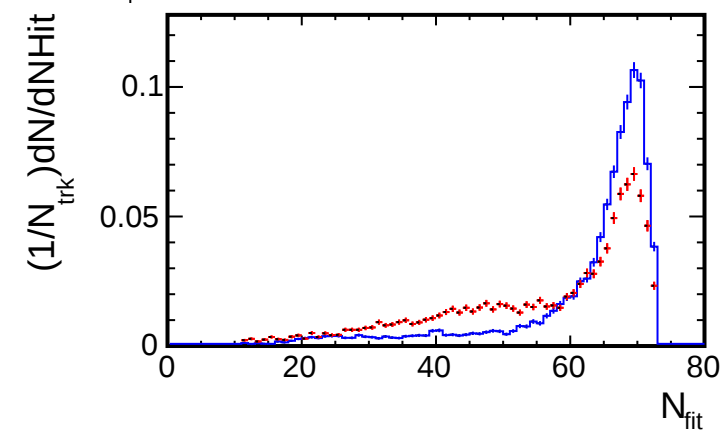
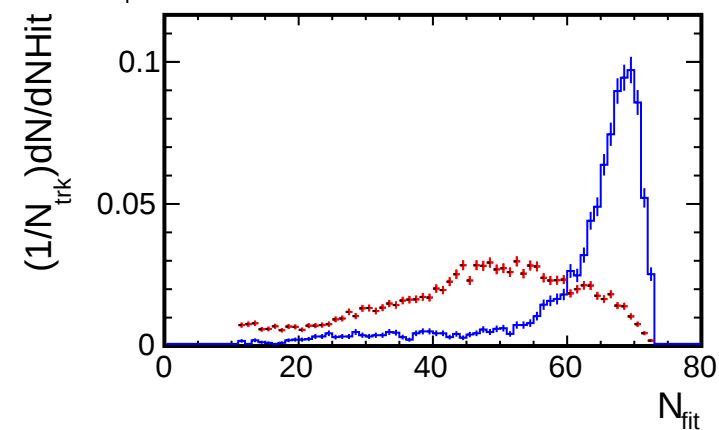
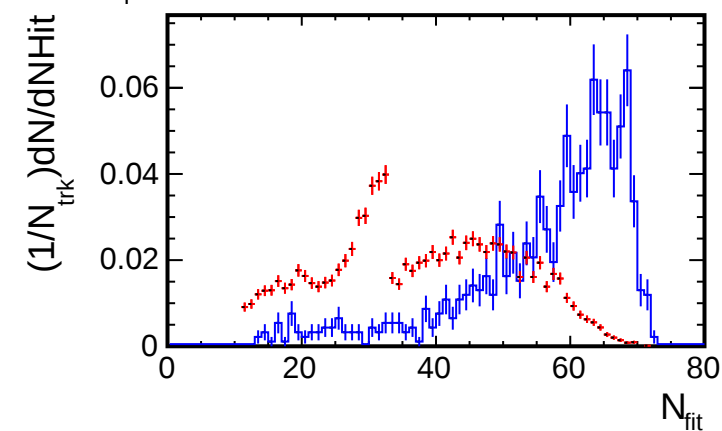
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

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 alpha (from H4Lambda)
(CONTAM, geantid=47)

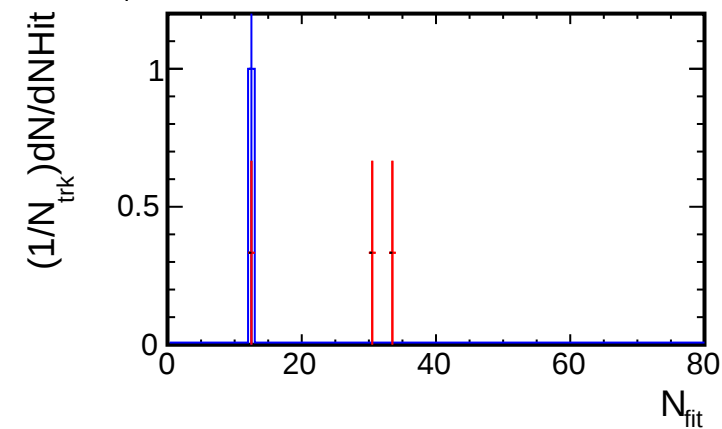
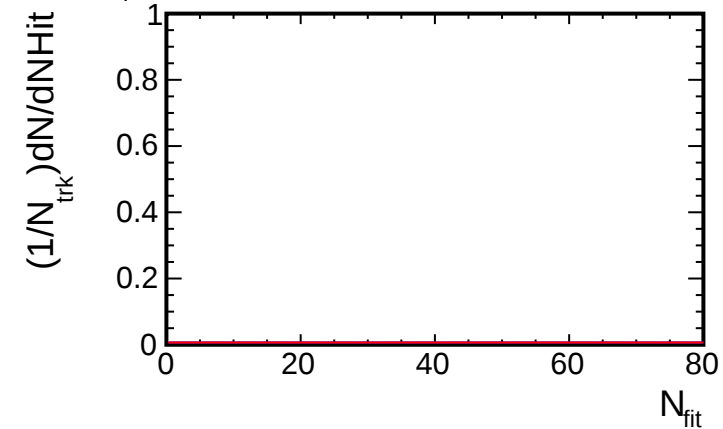
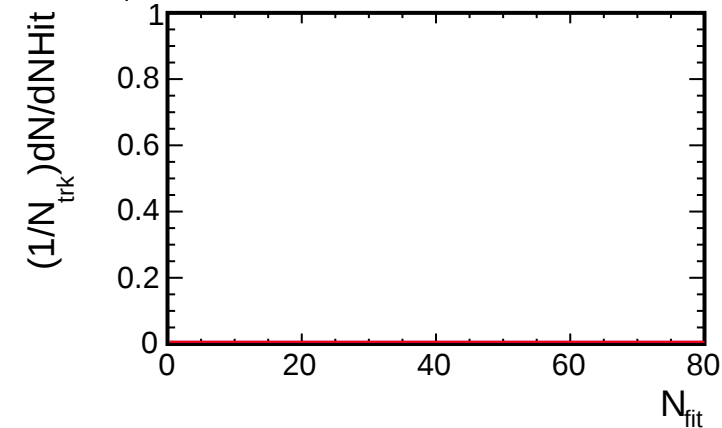
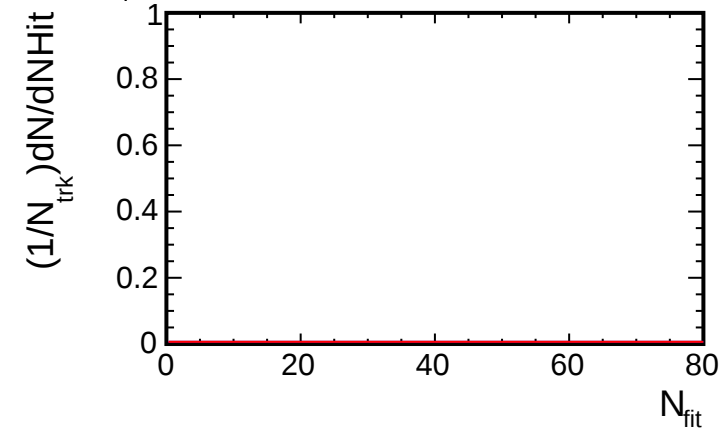
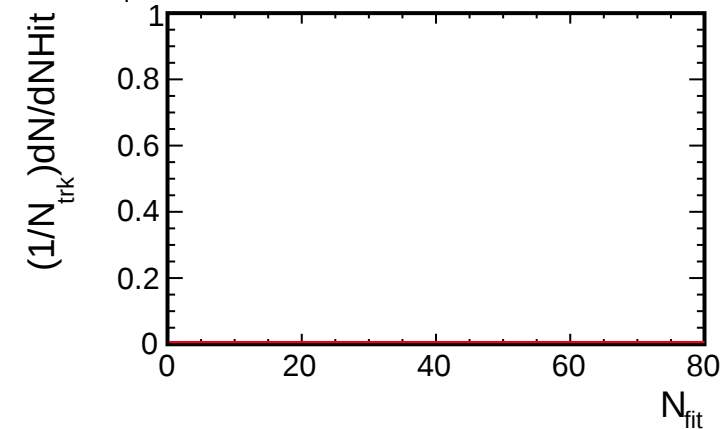
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

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)

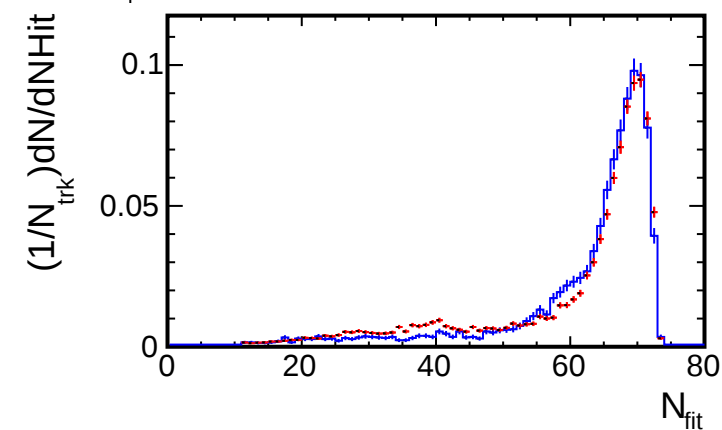
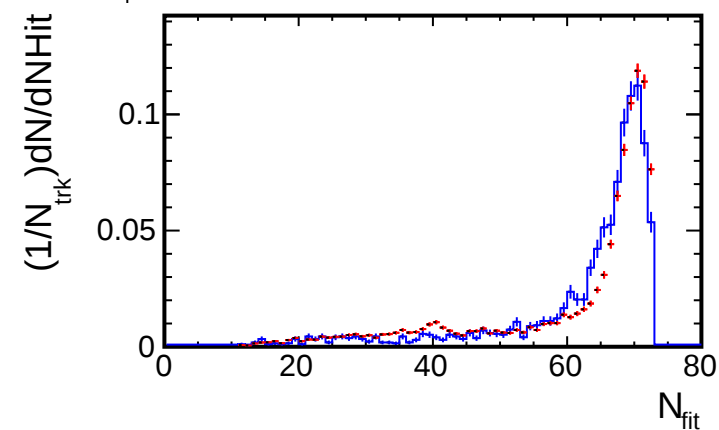
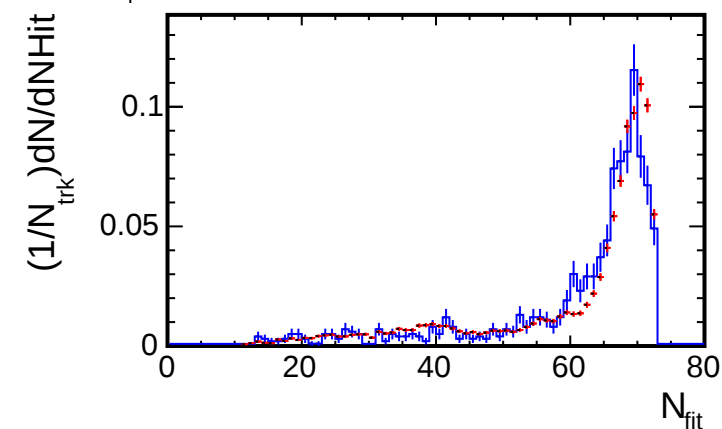
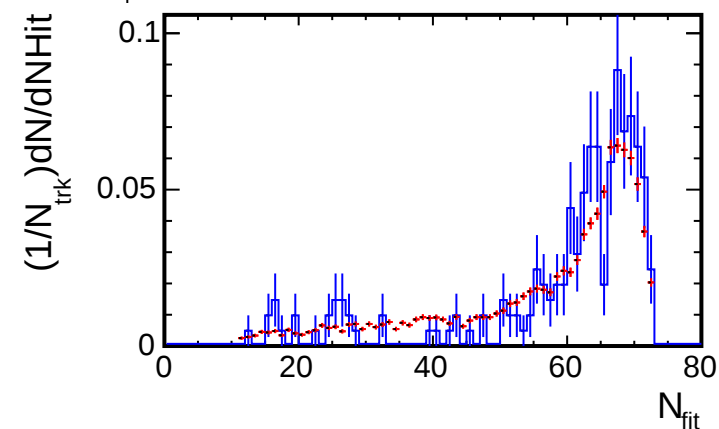
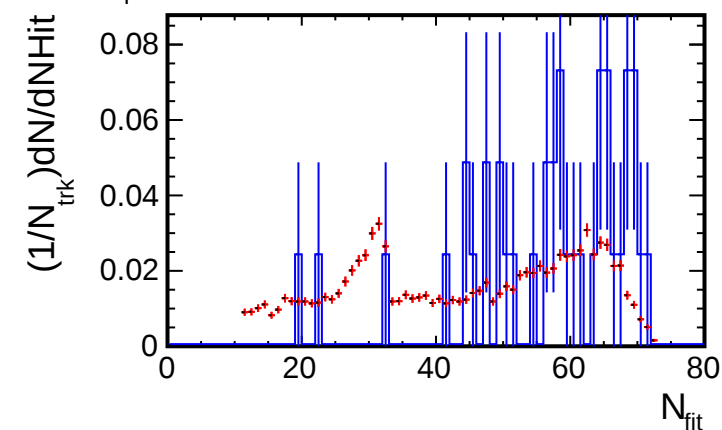
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices2, $1.5 < p_T < 2.0$ (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)

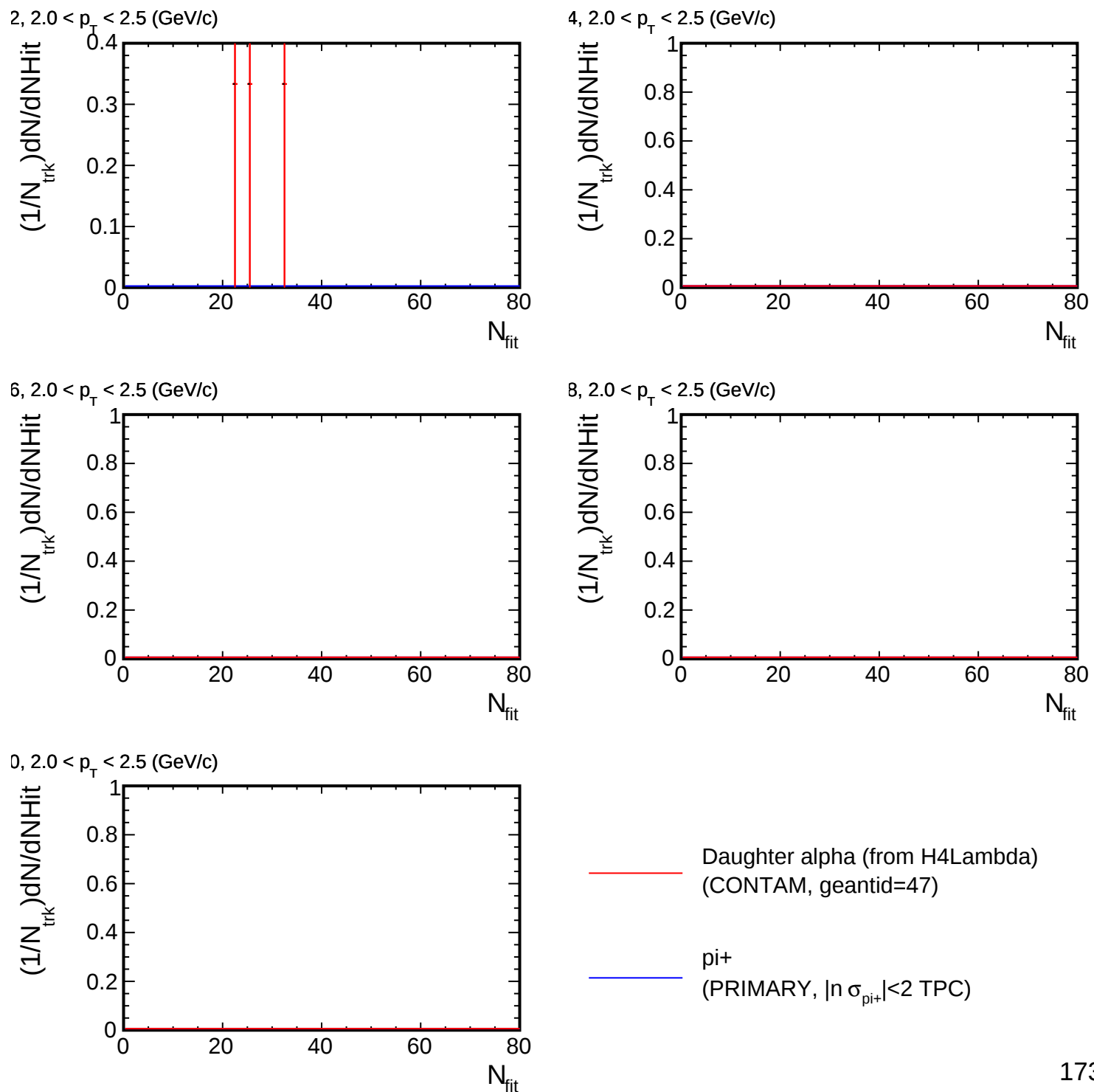
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

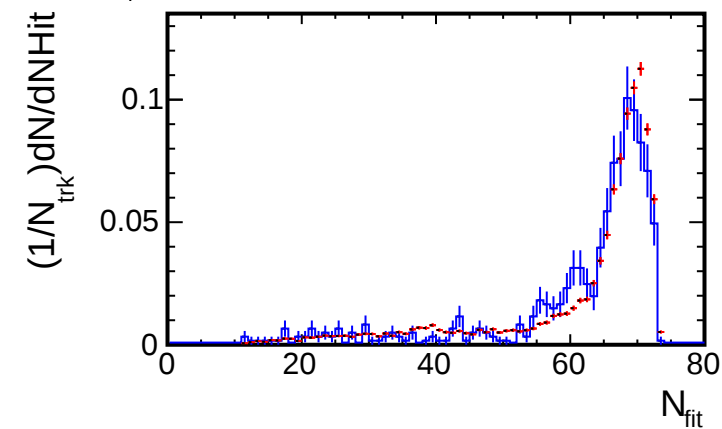
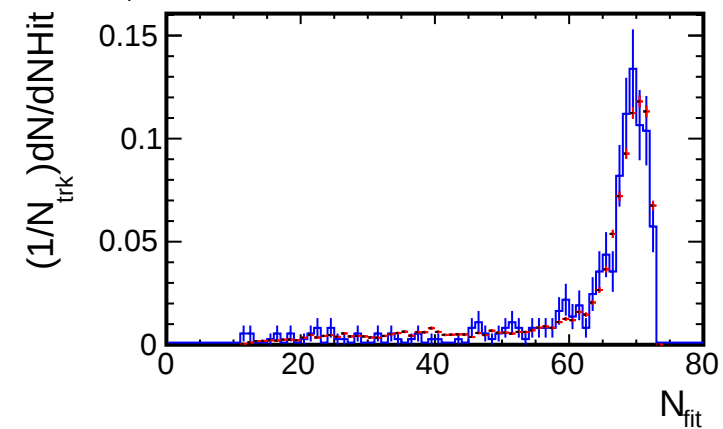
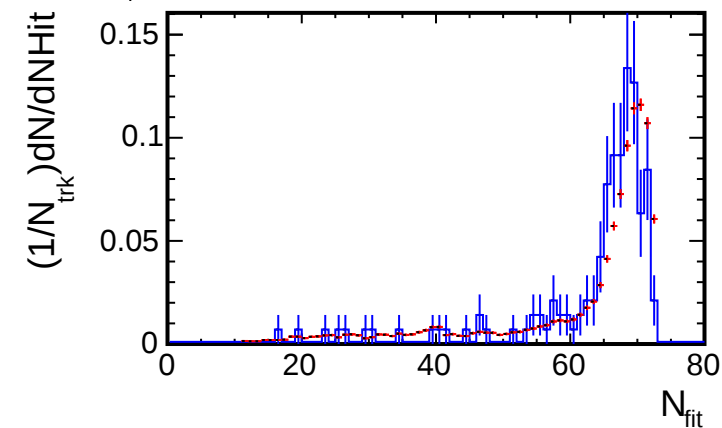
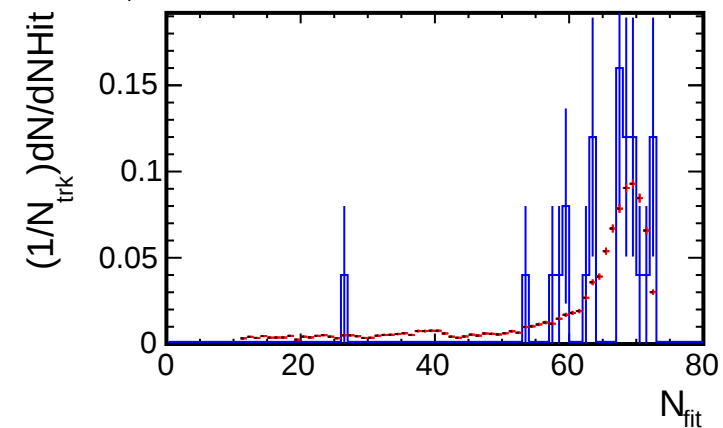
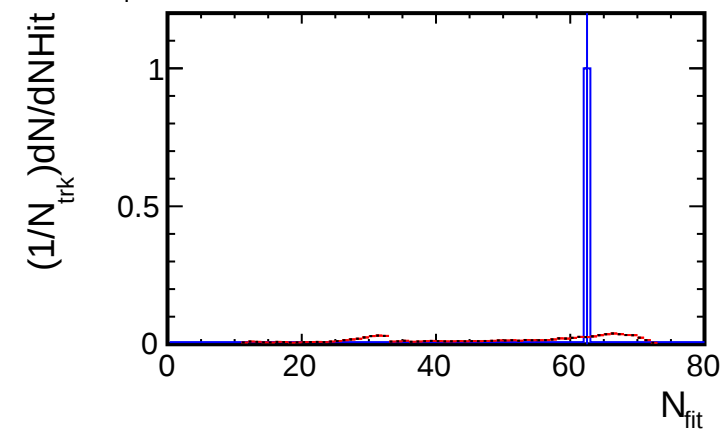
— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ TPC)

NHit distribution for (p_T , η) slices1.8, $2.0 < p_T < 2.5$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

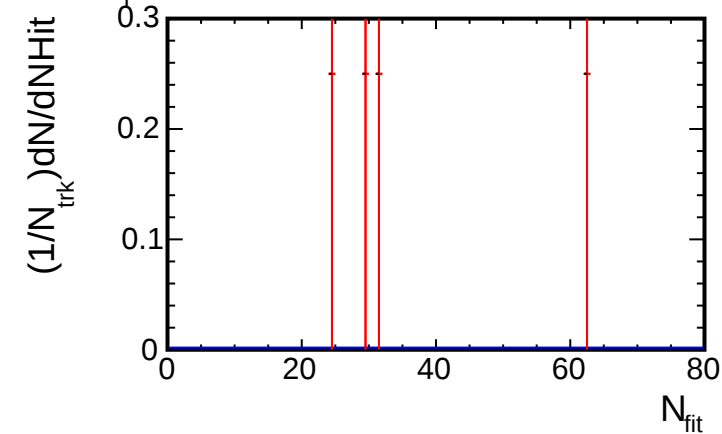
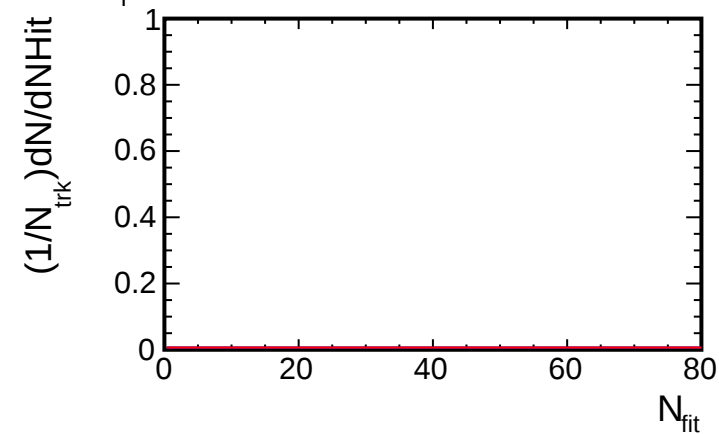
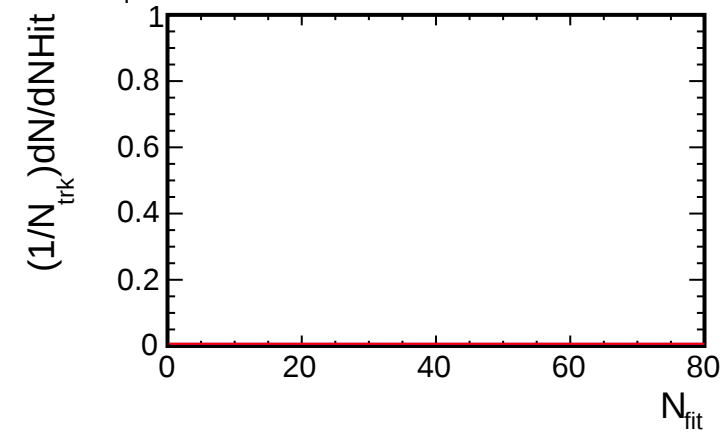
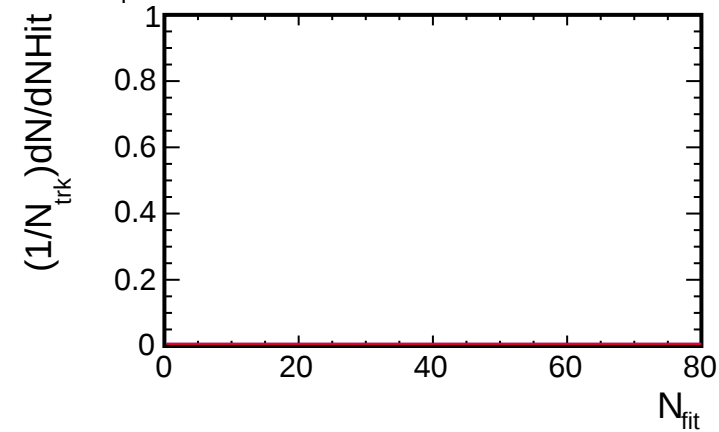
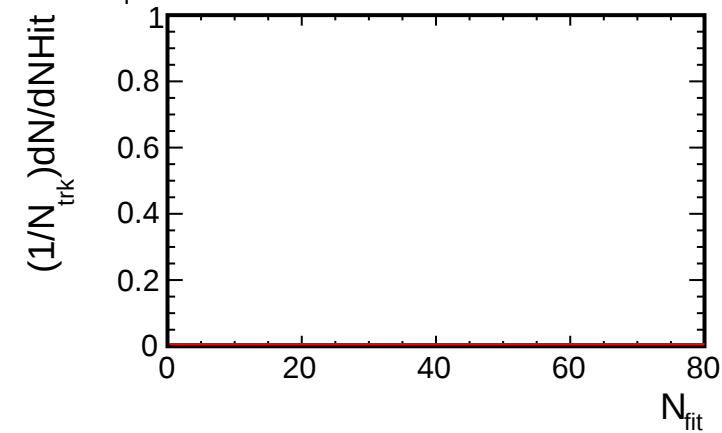
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

NHit distribution for (p_T , η) slices1.8, $2.5 < p_T < 3.0$ (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)

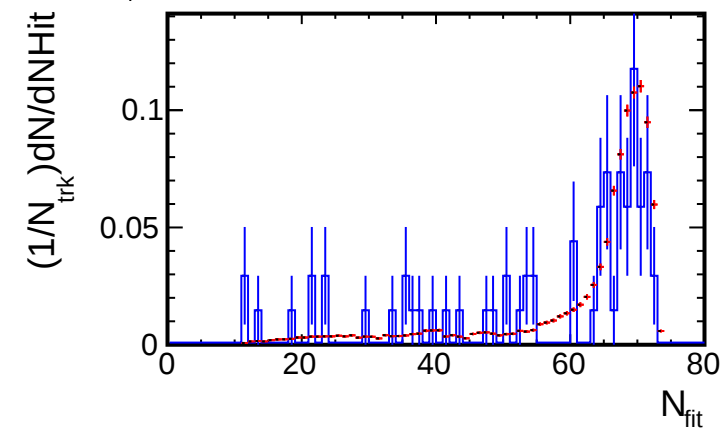
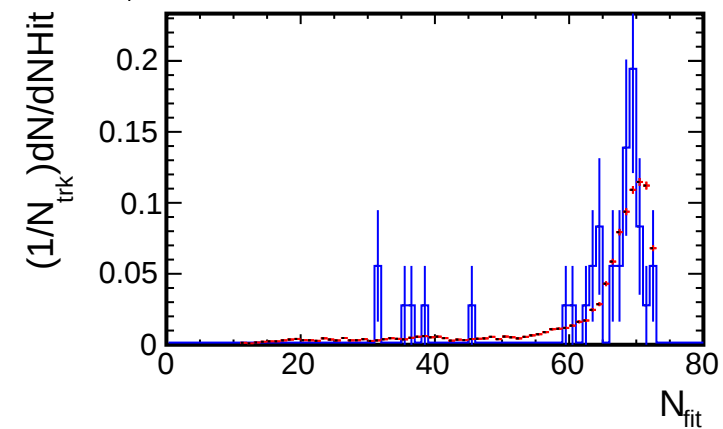
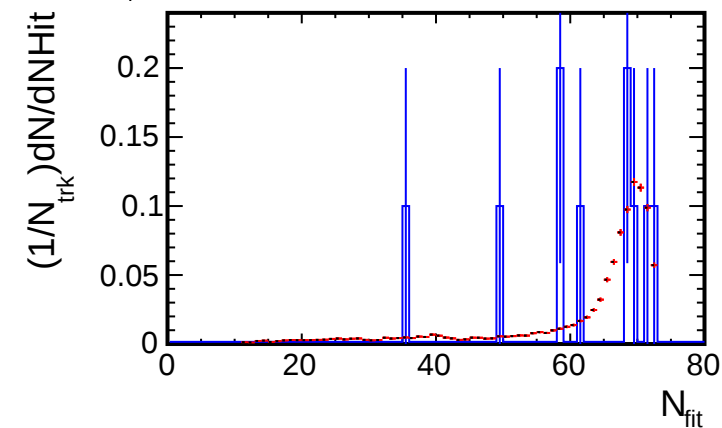
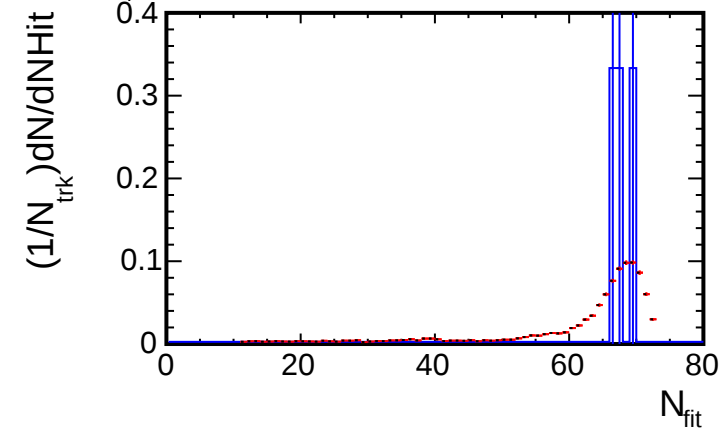
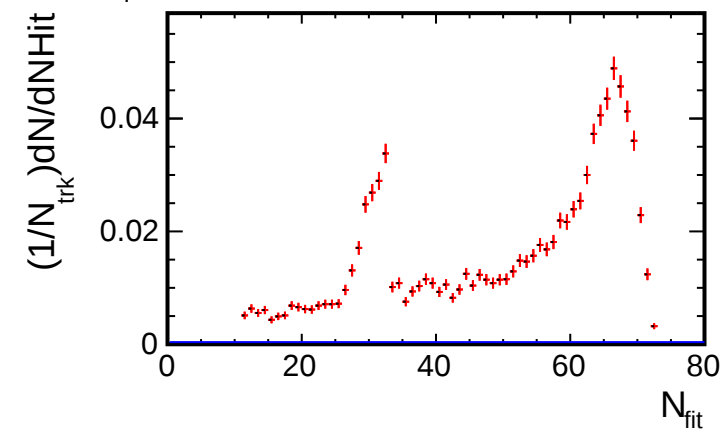
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices2, $2.5 < p_T < 3.0$ (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)

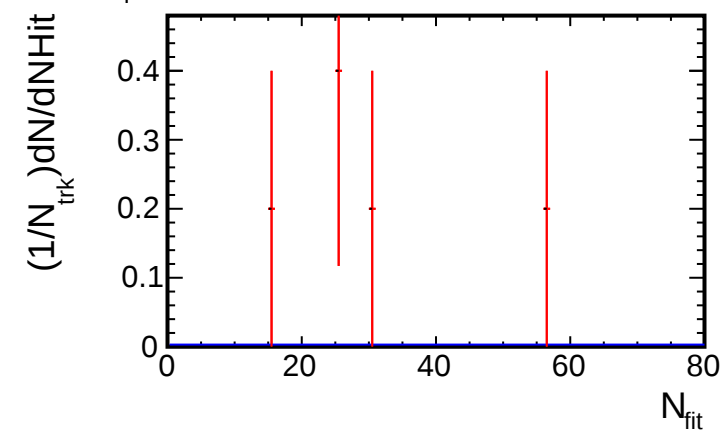
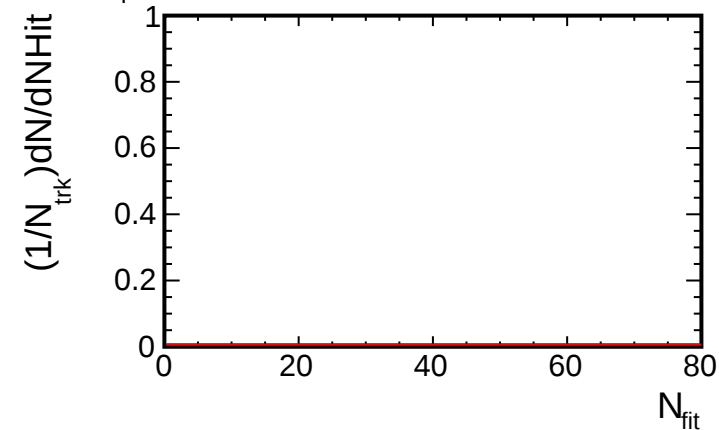
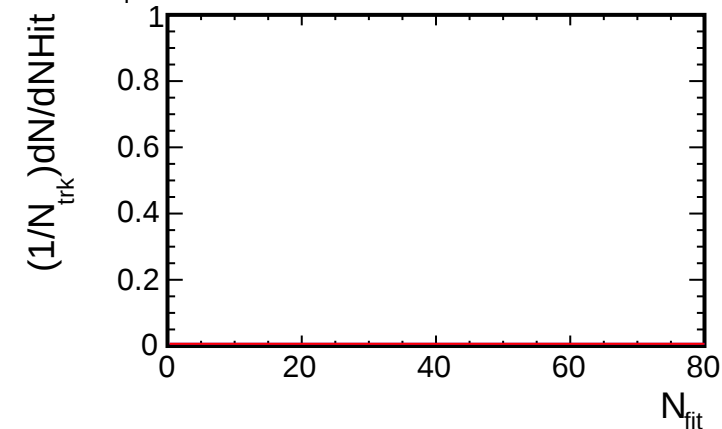
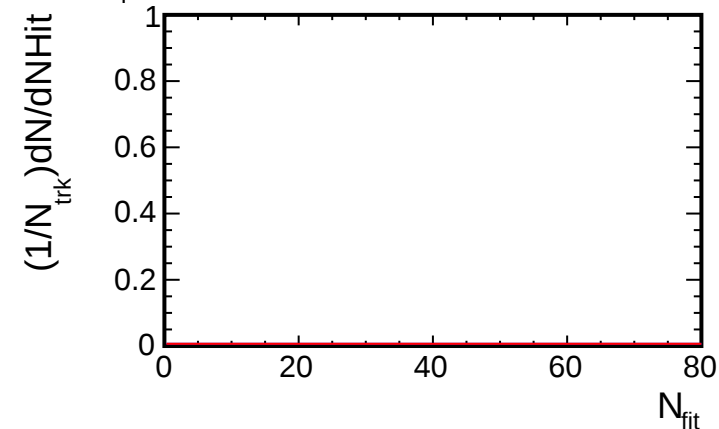
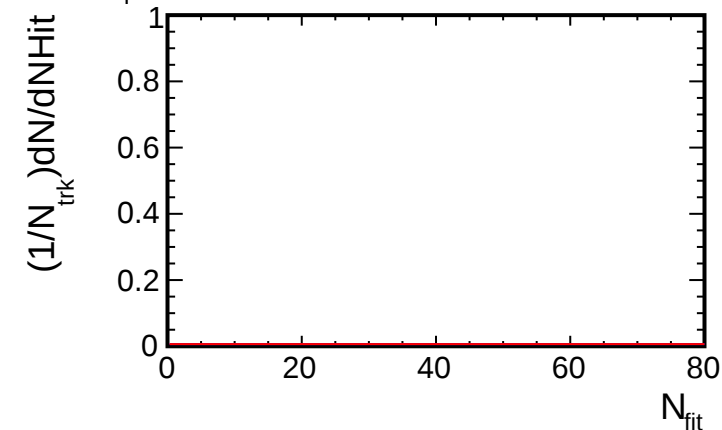
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices1.8, $3.0 < p_T < 3.5$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

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

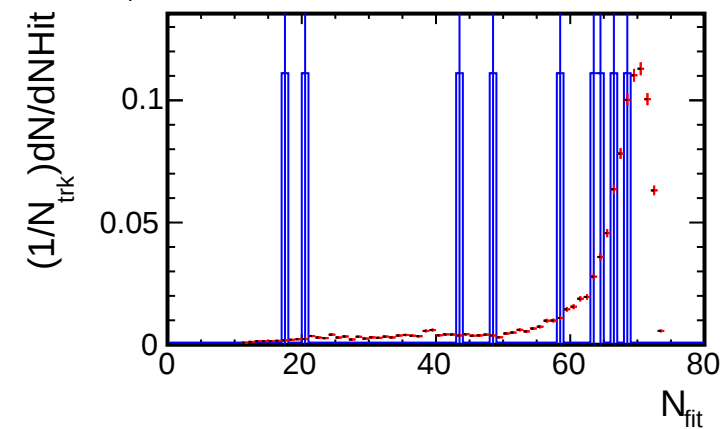
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— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

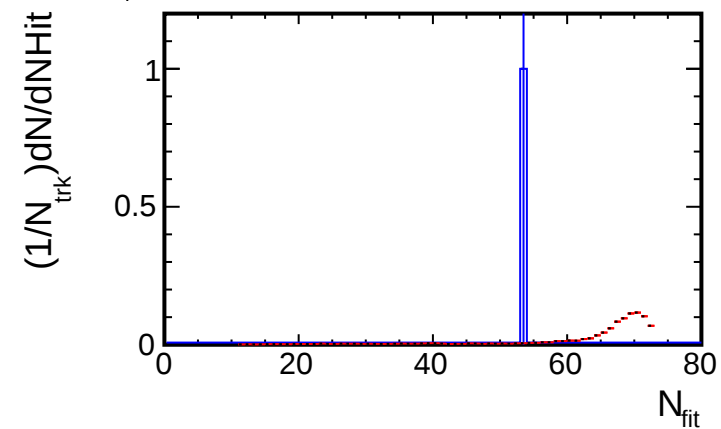
— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

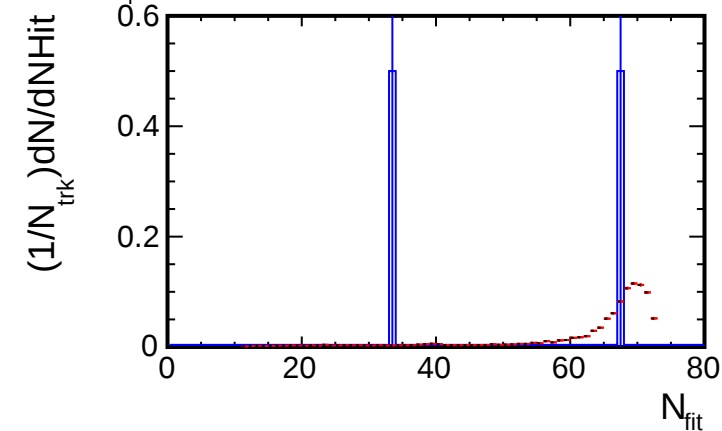
1.8, $3.5 < p_T < 4.0$ (GeV/c)



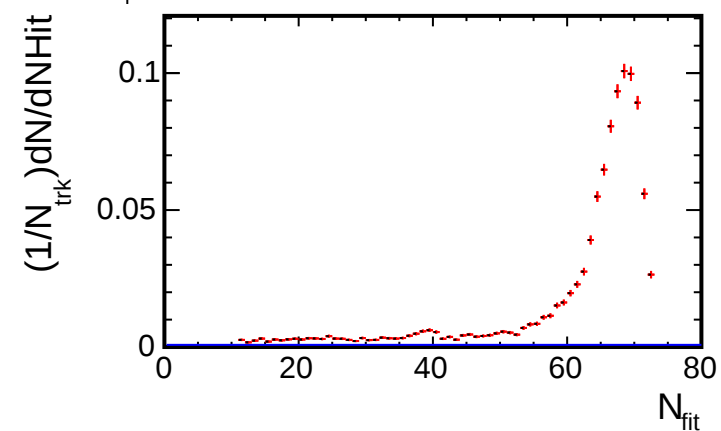
1.6, $3.5 < p_T < 4.0$ (GeV/c)



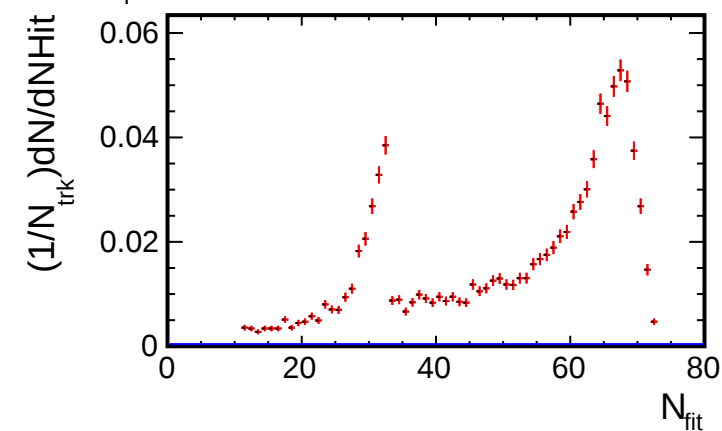
1.4, $3.5 < p_T < 4.0$ (GeV/c)



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

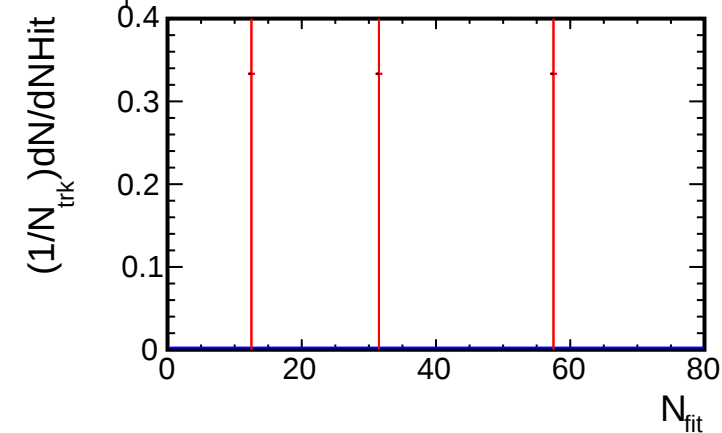
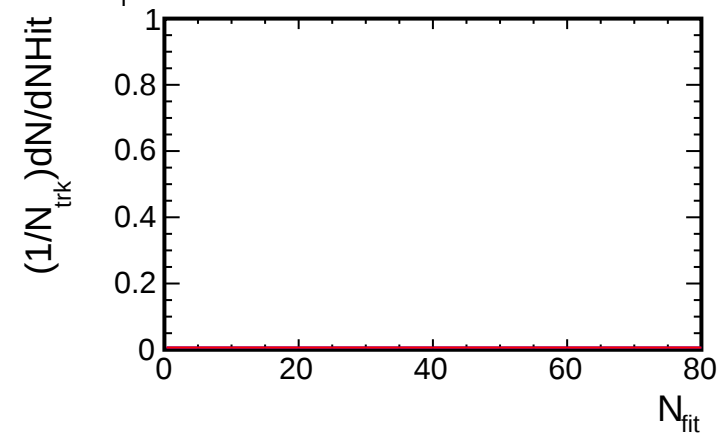
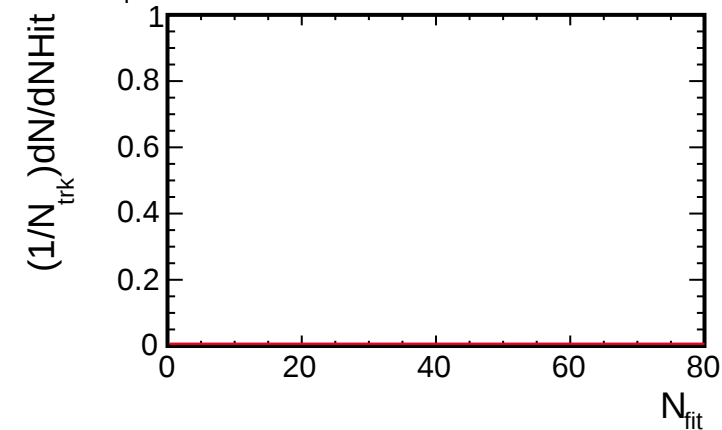
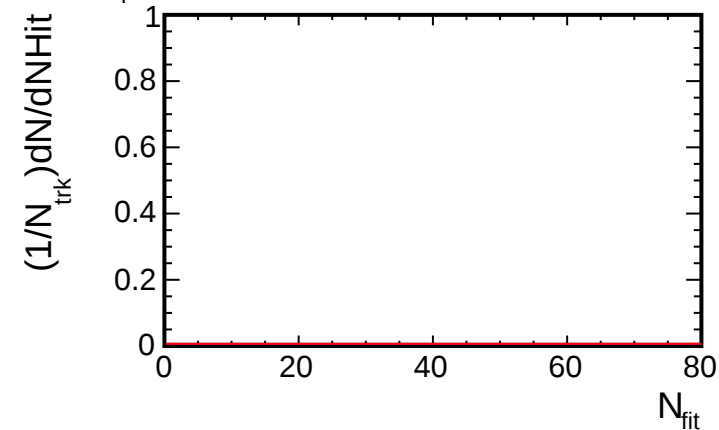
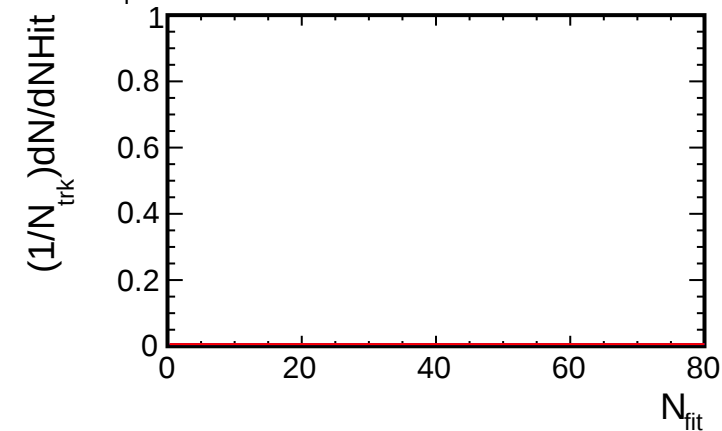


1.0, $3.5 < p_T < 4.0$ (GeV/c)



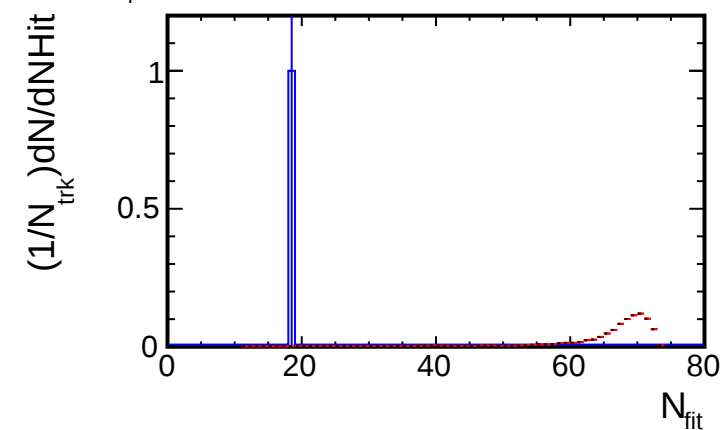
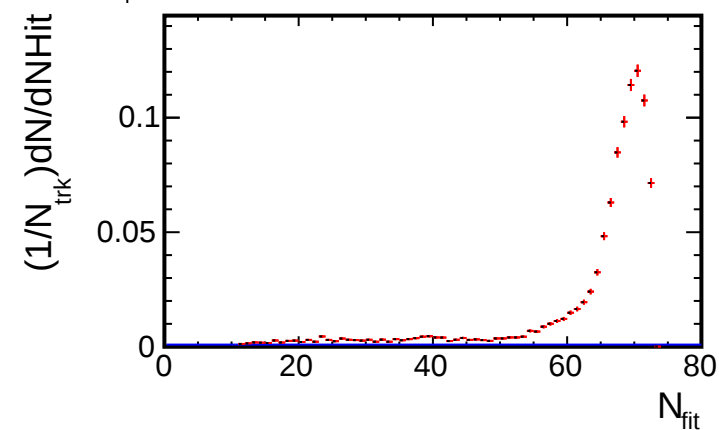
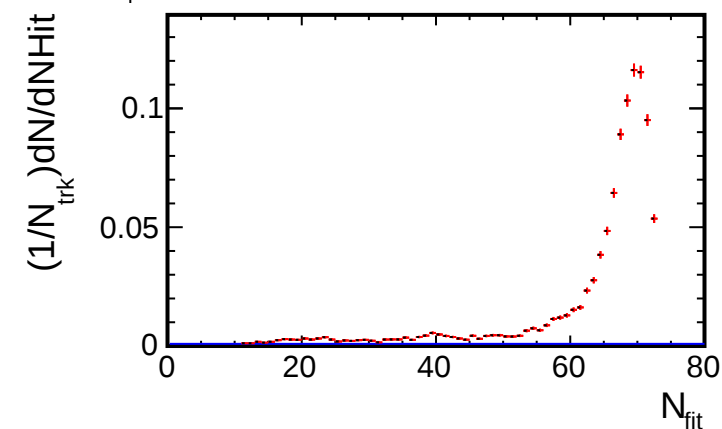
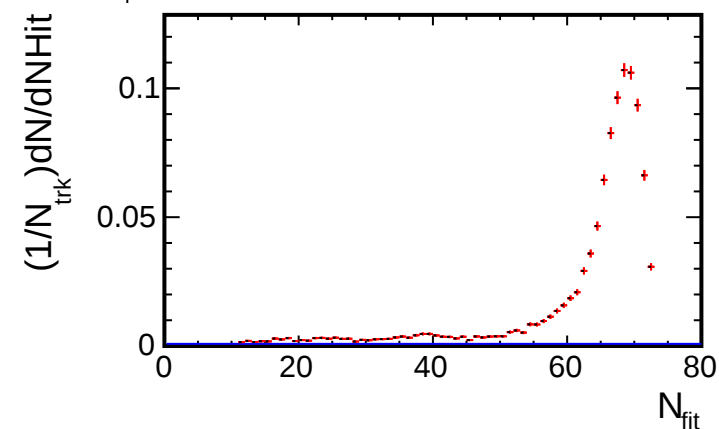
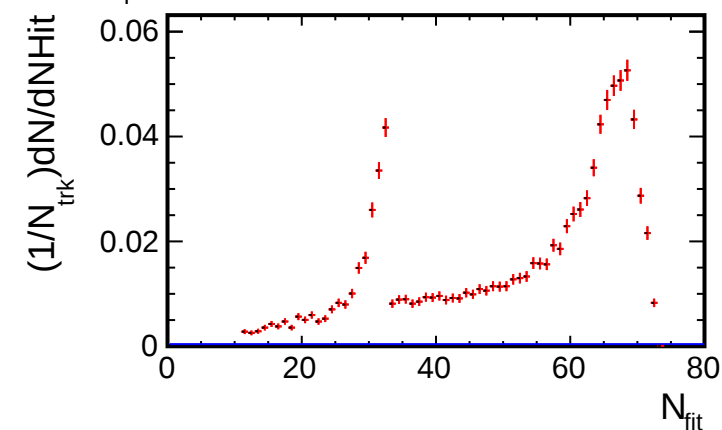
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices2, $3.5 < p_T < 4.0$ (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)

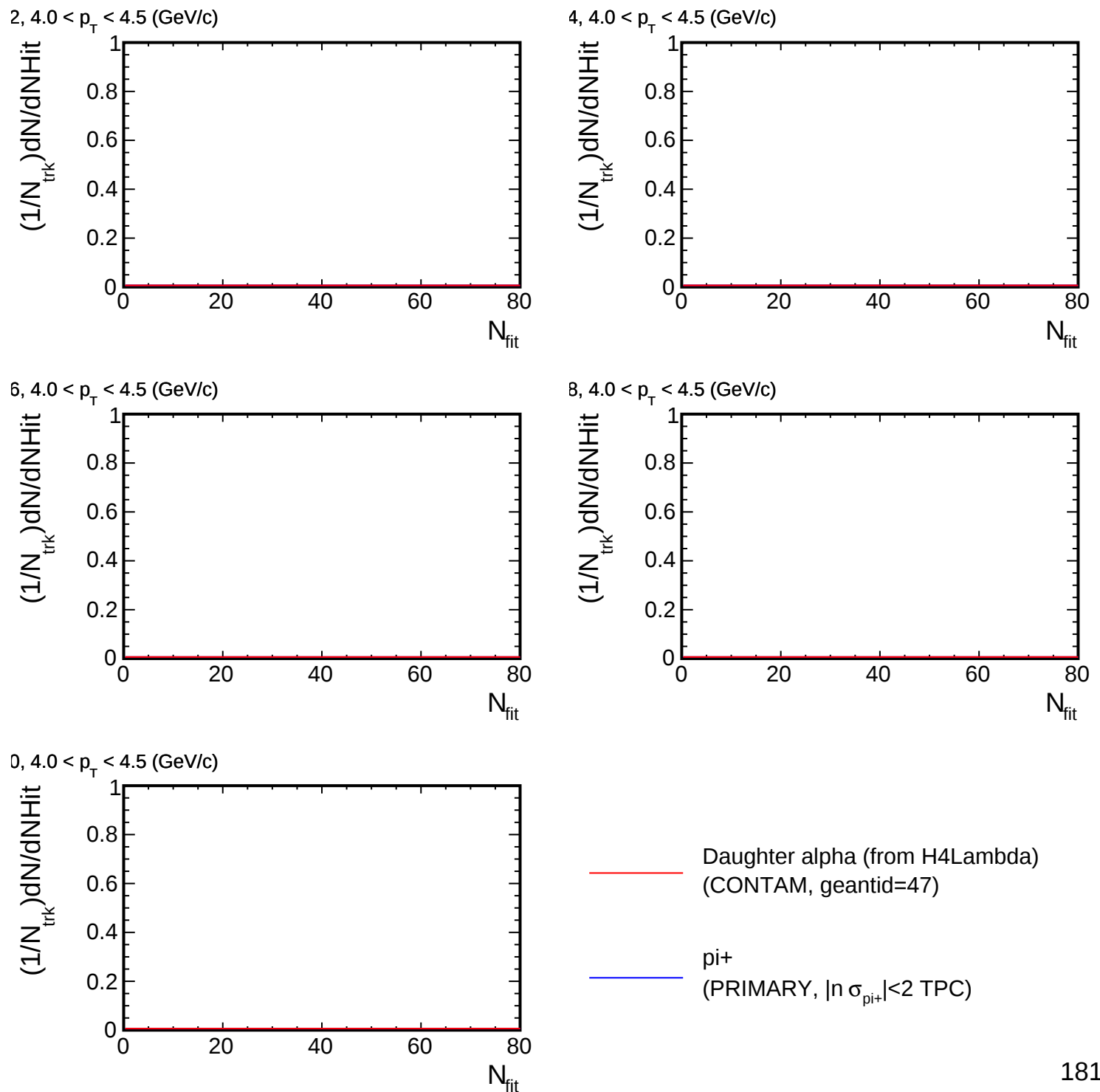
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices1.8, $4.0 < p_T < 4.5$ (GeV/c)1.6, $4.0 < p_T < 4.5$ (GeV/c)1.4, $4.0 < p_T < 4.5$ (GeV/c)1.2, $4.0 < p_T < 4.5$ (GeV/c)1.0, $4.0 < p_T < 4.5$ (GeV/c)

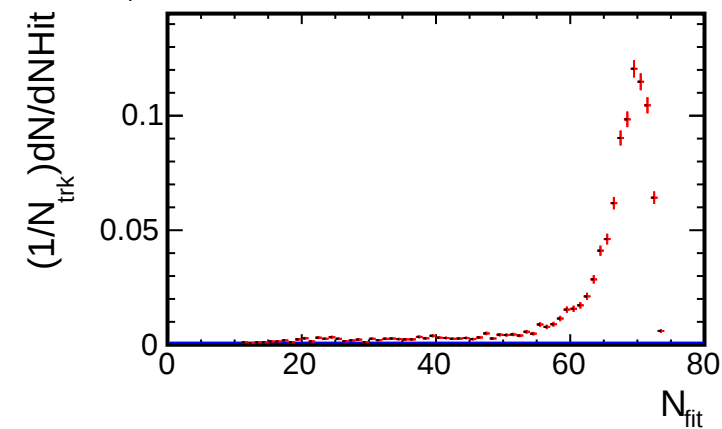
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

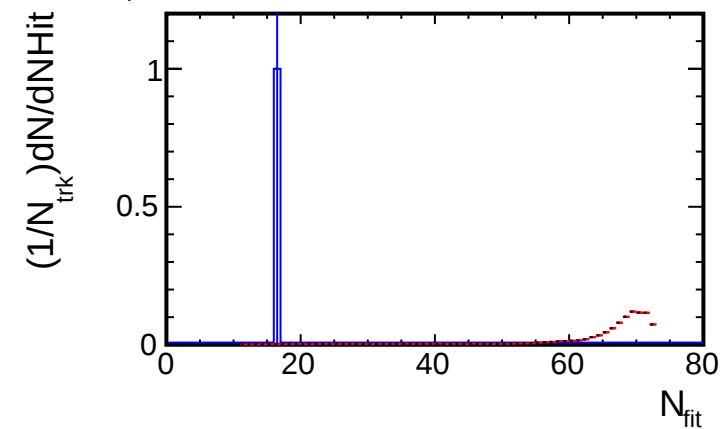
NHit distribution for (p_T , η) slices

NHit distribution for (p_T , η) slices

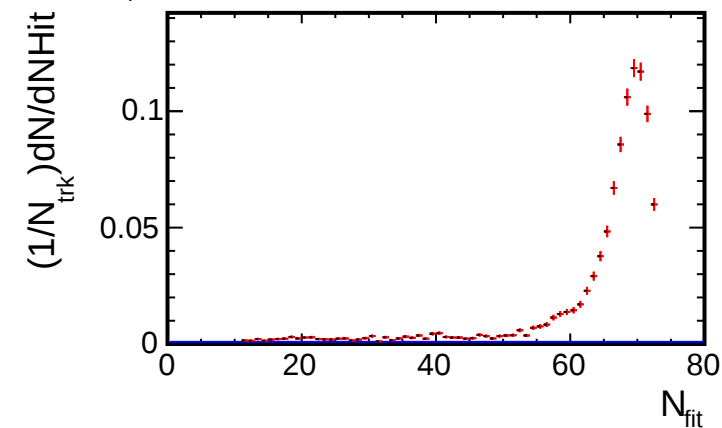
1.8, $4.5 < p_T < 5.0$ (GeV/c)



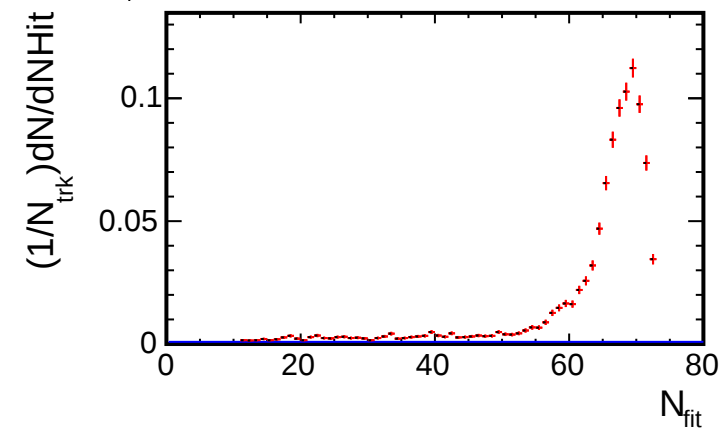
1.6, $4.5 < p_T < 5.0$ (GeV/c)



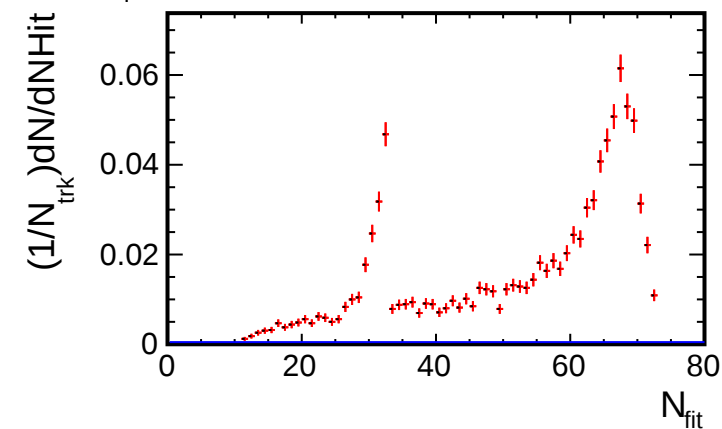
1.4, $4.5 < p_T < 5.0$ (GeV/c)



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

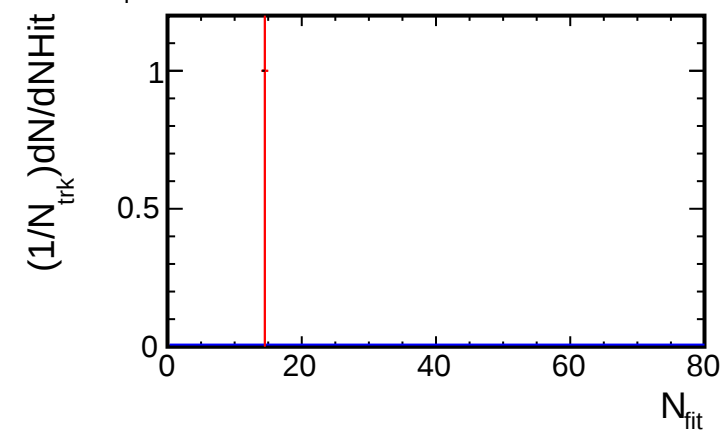
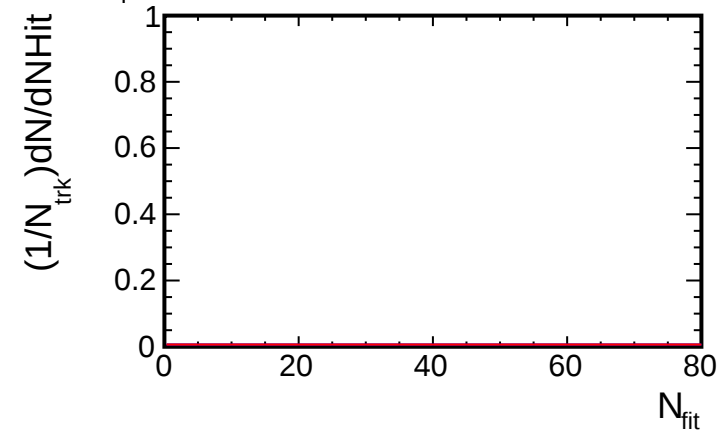
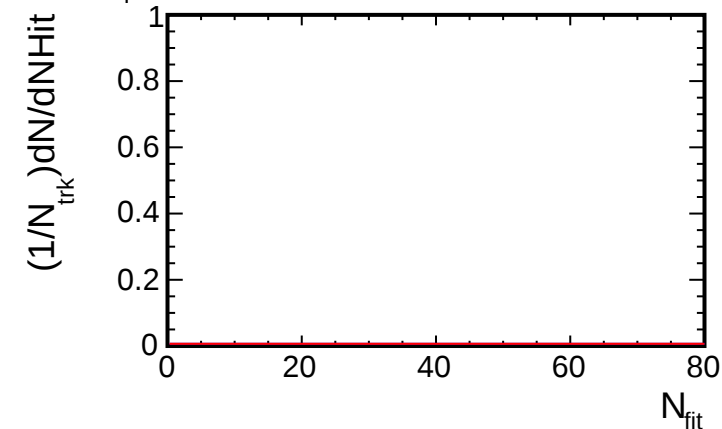
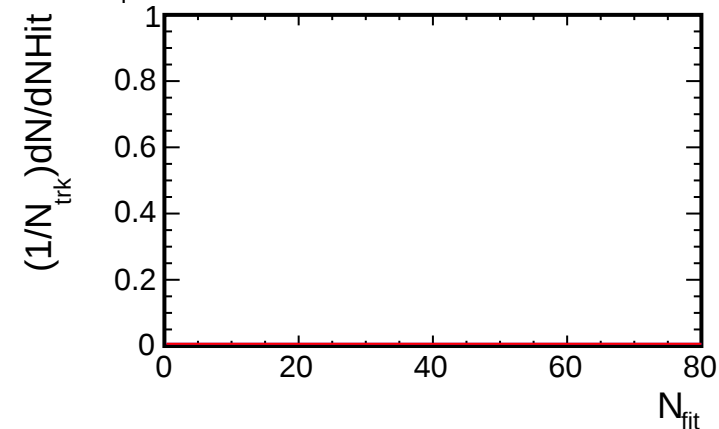
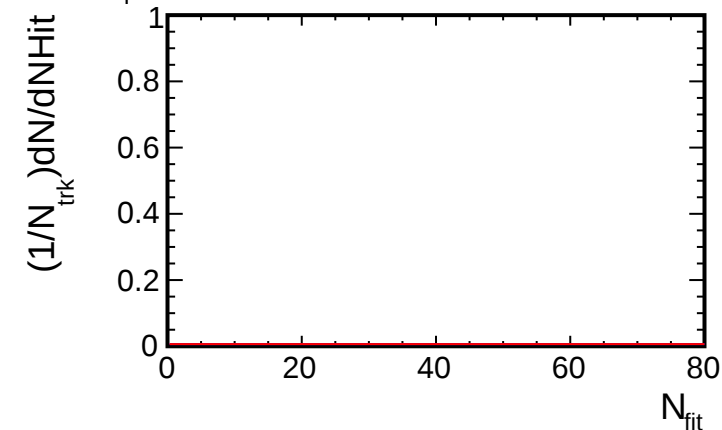


1.0, $4.5 < p_T < 5.0$ (GeV/c)



— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) slices2, $4.5 < p_T < 5.0$ (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 alpha (from H4Lambda)
(CONTAM, geantid=47)

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

End of QA