

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 = 680001

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

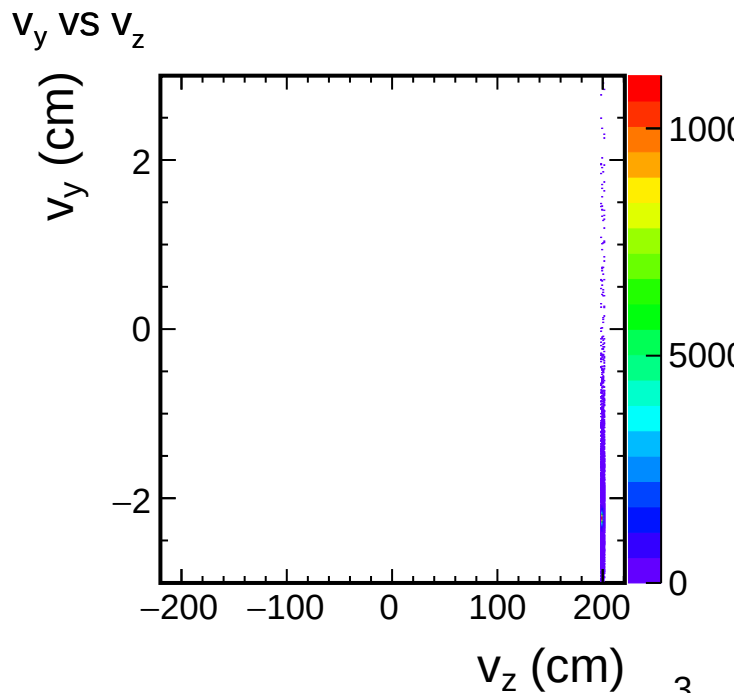
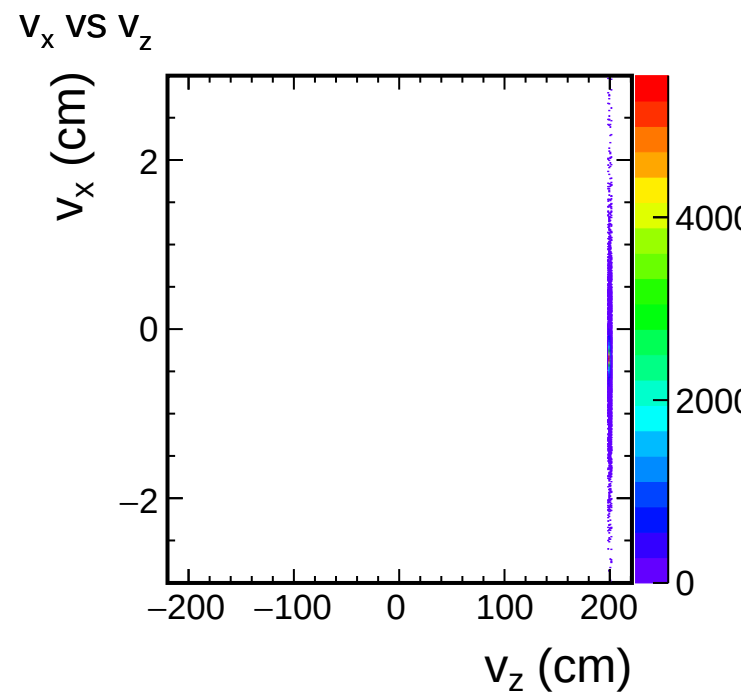
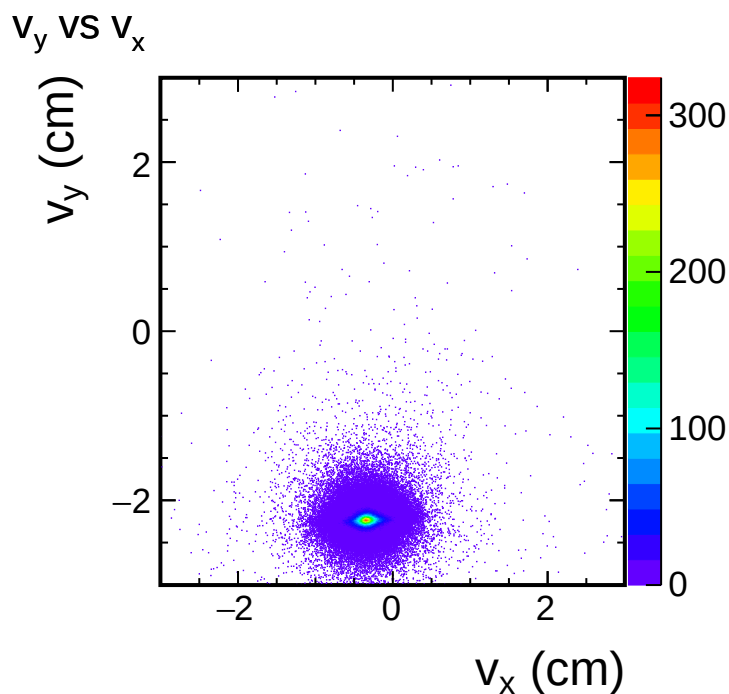
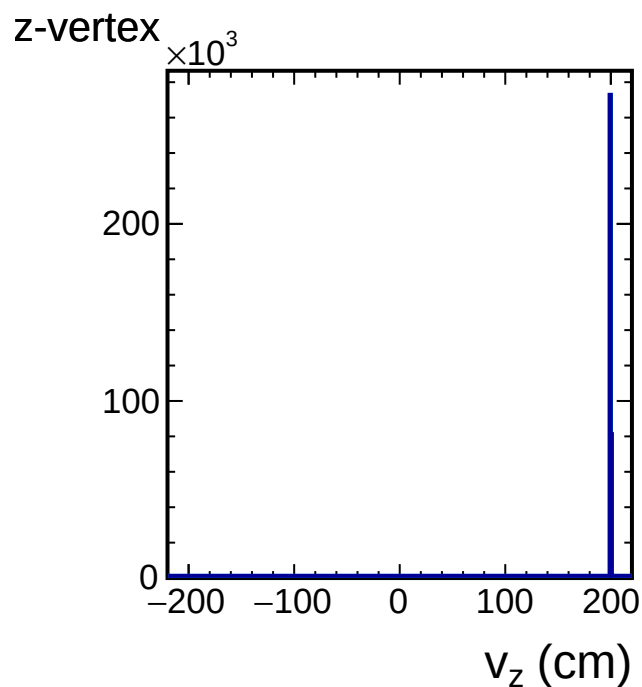
global Dca < 3.0 cm

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

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

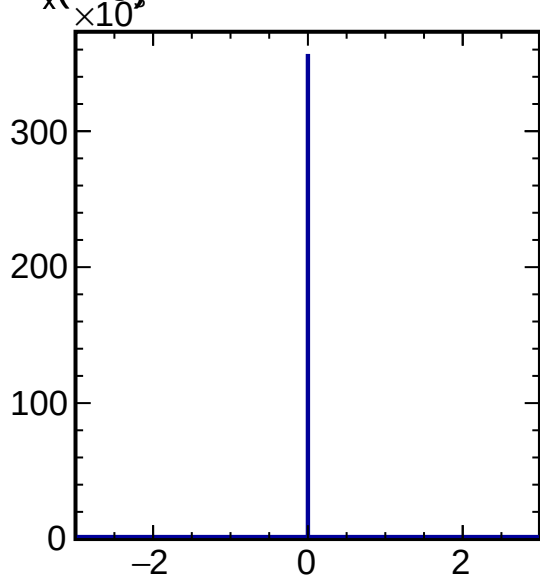
NOTE2: Cut on its own variable is currently disabled, e.x. no dca cut for dca histogram

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



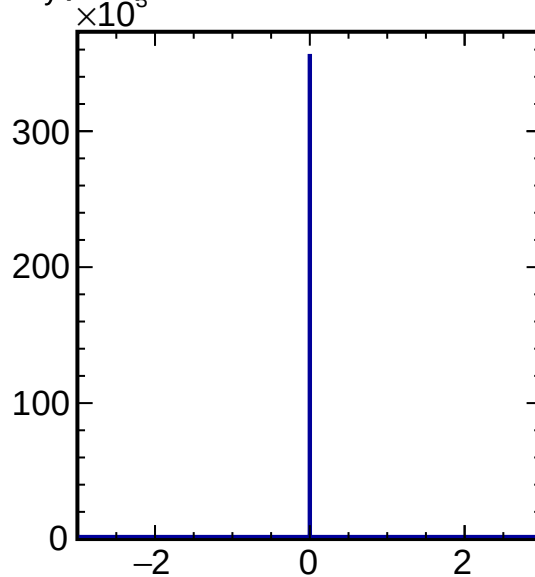
Event vertices, $\Delta v = v(\text{Data}) - v(\text{MC})$

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



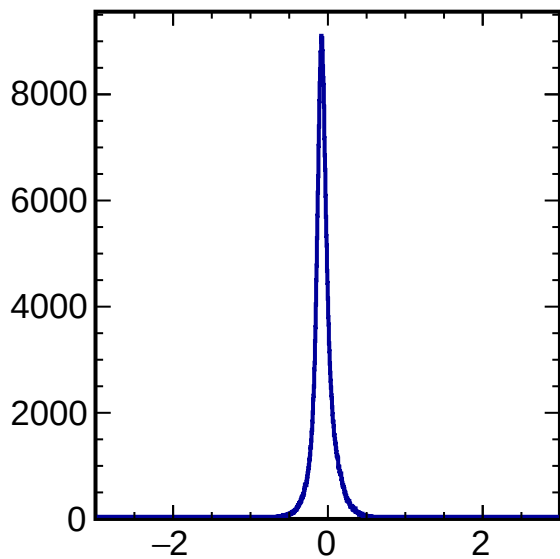
$$\Delta v_x = v_x - v_x(\text{MC}) \text{ (cm)}$$

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



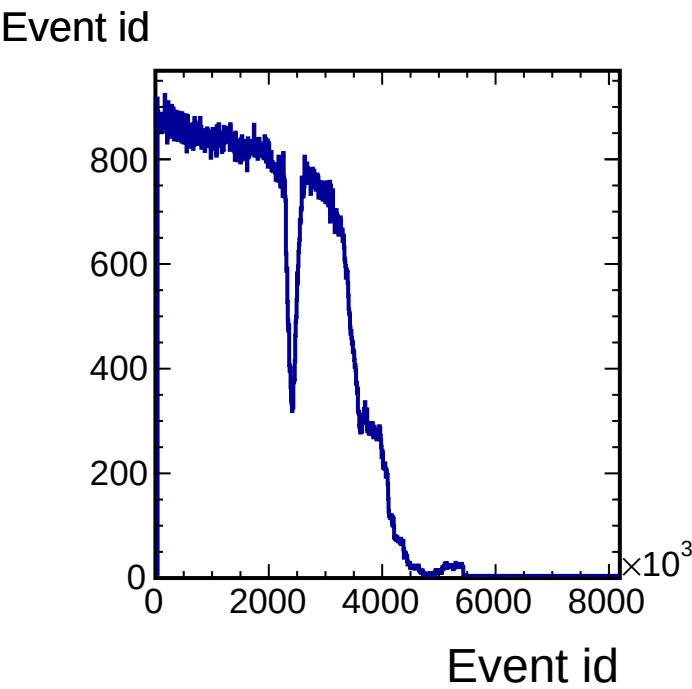
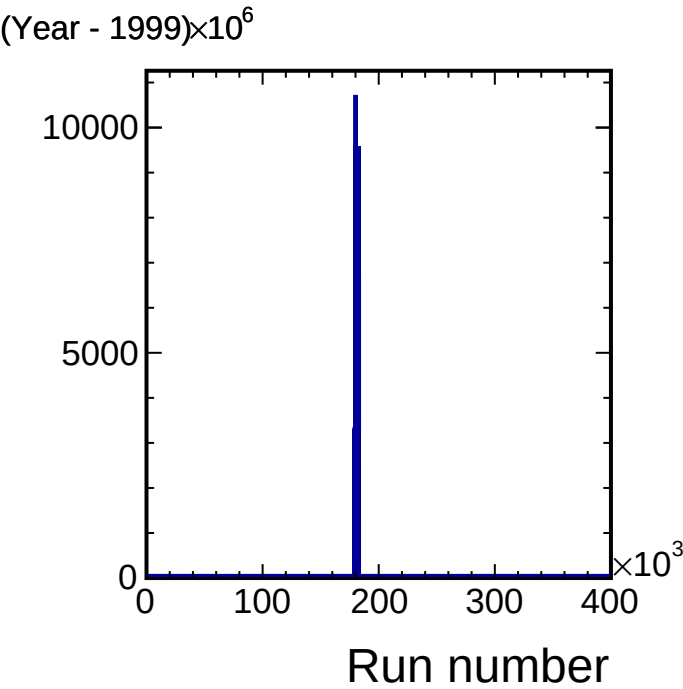
$$\Delta v_y = v_y - v_y(\text{MC}) \text{ (cm)}$$

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



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

Run and event id



Run id	statistics
20179040	2374 events
20179041	3307 events
20180001	5585 events
20180002	9019 events
20180003	7232 events
20180004	773 events
20180007	5740 events
20180008	2386 events
20180009	1774 events
20180010	404 events
20180011	9372 events
20180012	5304 events
20180013	5454 events
20180014	3109 events
20180015	2251 events
20180016	1570 events
20180017	1581 events
20180018	9566 events
20180020	2060 events
20180021	2222 events

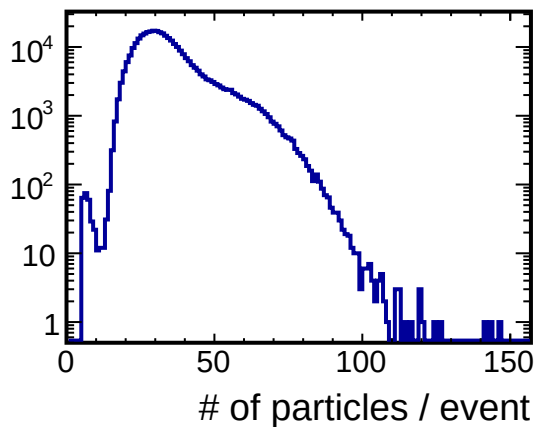
Run id	statistics
20180022	3057 events
20180023	3103 events
20180024	9427 events
20180026	3922 events
20180045	3954 events
20180046	10725 events
20180047	5739 events
20180048	4842 events
20181001	4012 events
20181002	4821 events
20181003	3371 events
20181004	7232 events
20181005	5988 events
20181006	3931 events
20181007	5107 events
20181008	5621 events
20181009	3994 events
20181010	3609 events
20181011	3021 events
20181012	8678 events

Run id	statistics
20181013	4540 events
20181017	2963 events
20181018	2318 events
20181019	7613 events
20181042	2964 events
20181043	3785 events
20181044	6759 events
20181045	284 events
20182006	5631 events
20182007	2966 events
20182008	1951 events
20182009	1575 events
20182010	1846 events
20182011	5677 events
20182012	5610 events
20182013	5708 events
20182014	8677 events
20182015	3423 events
20182016	2830 events
20182017	6791 events

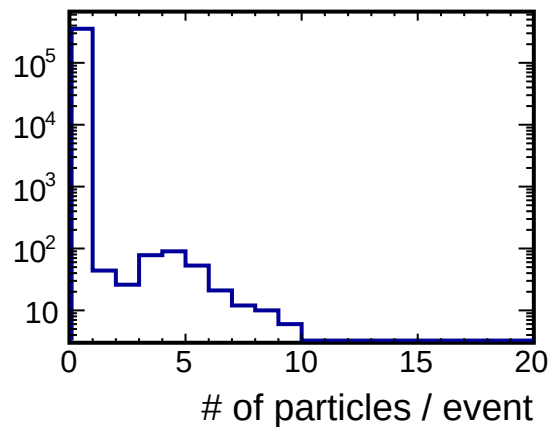
Run id	statistics
20182018	9083 events
20182035	1737 events
20183002	1680 events
20183003	3603 events
20183004	2730 events
20183005	7614 events
20183008	5074 events
20183009	4337 events
20183010	4229 events
20183011	1069 events
20183012	3992 events
20183015	4575 events
20183016	2531 events
20183017	1415 events
20183018	1296 events
20183020	3992 events
20183021	7744 events
20183022	9589 events
20183023	3192 events
20183024	6729 events

Multiplicity distribution

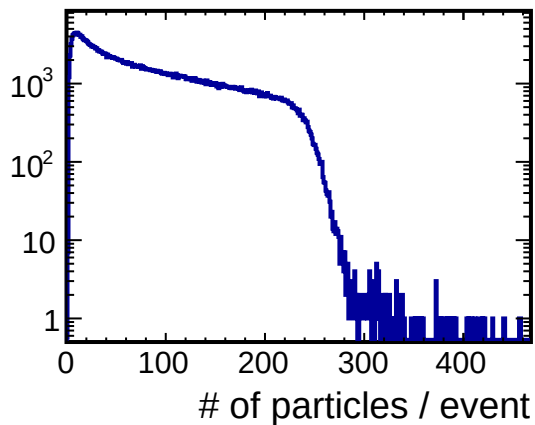
MC tracks



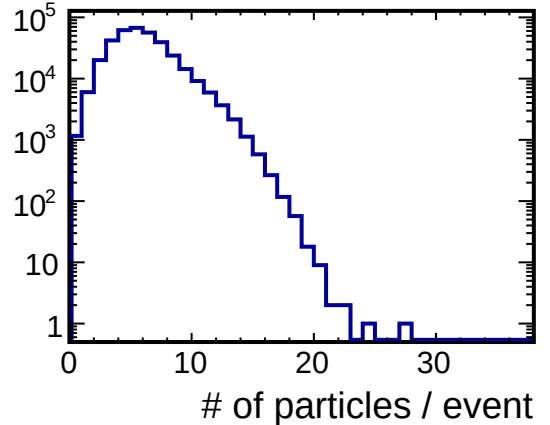
matched pairs



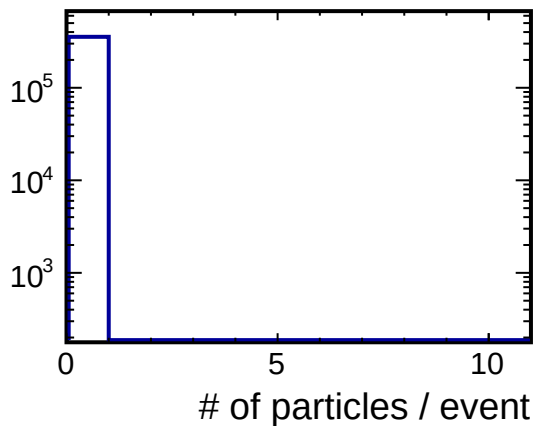
Ghost pairs



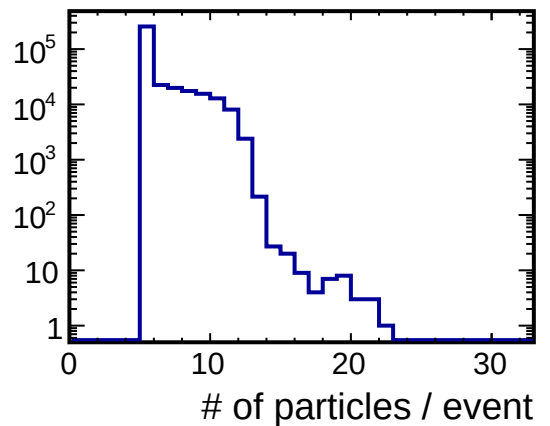
contaminated pairs



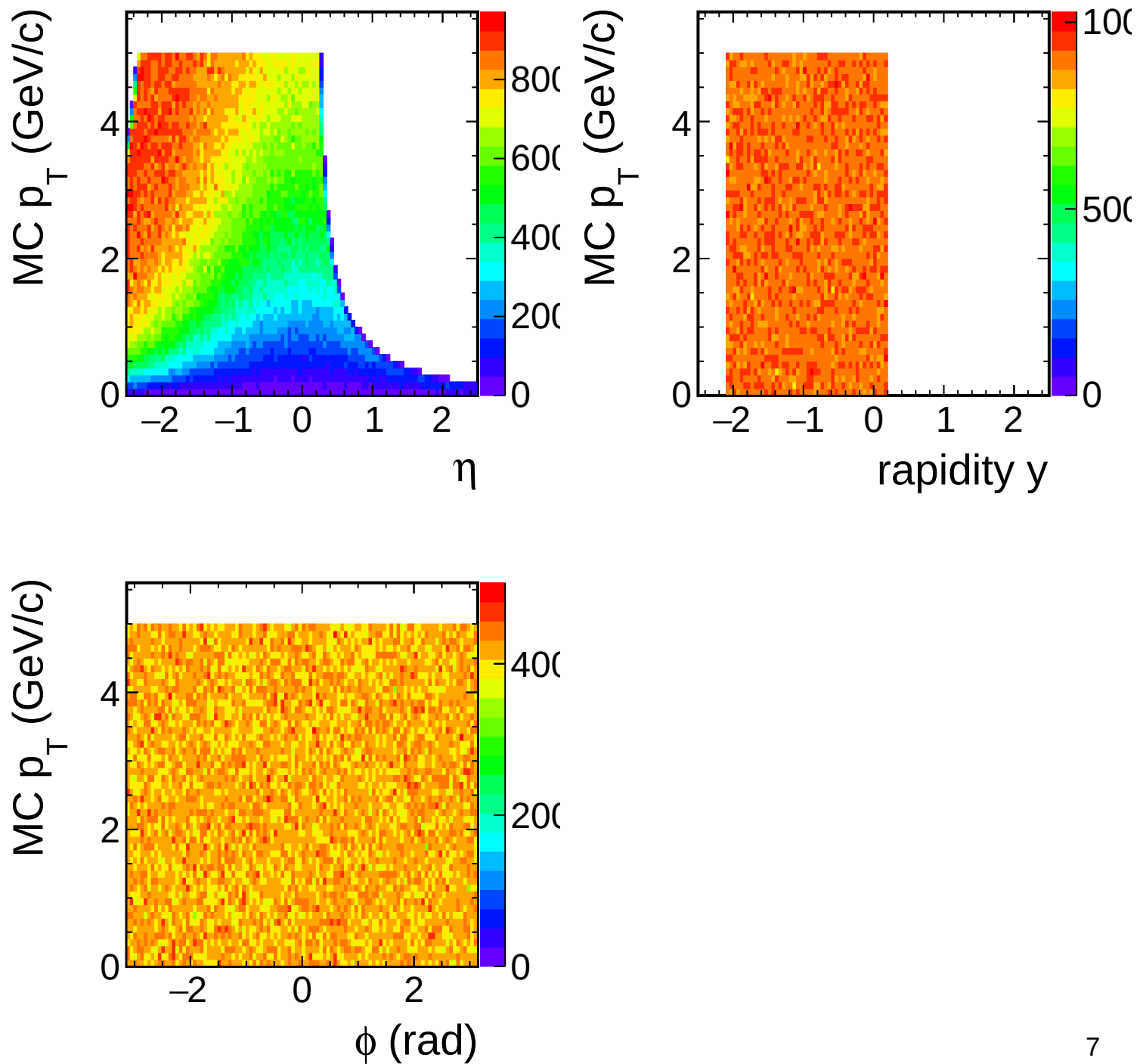
matched global pairs



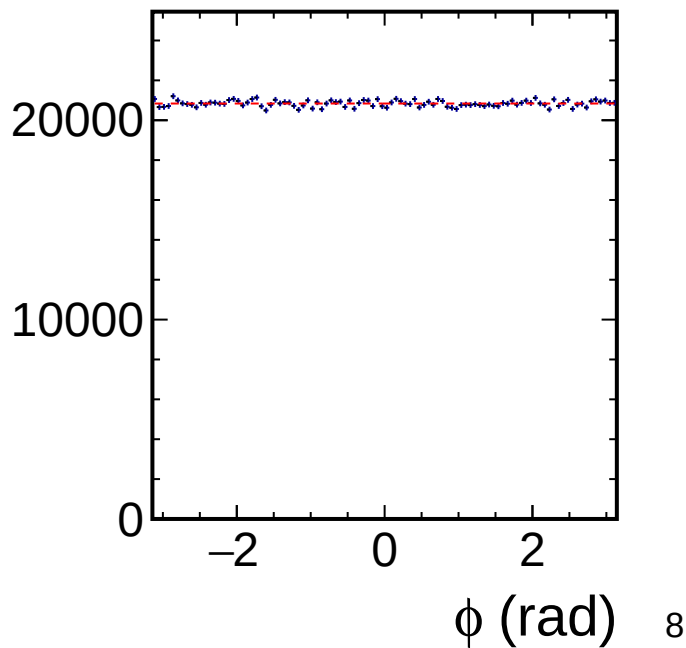
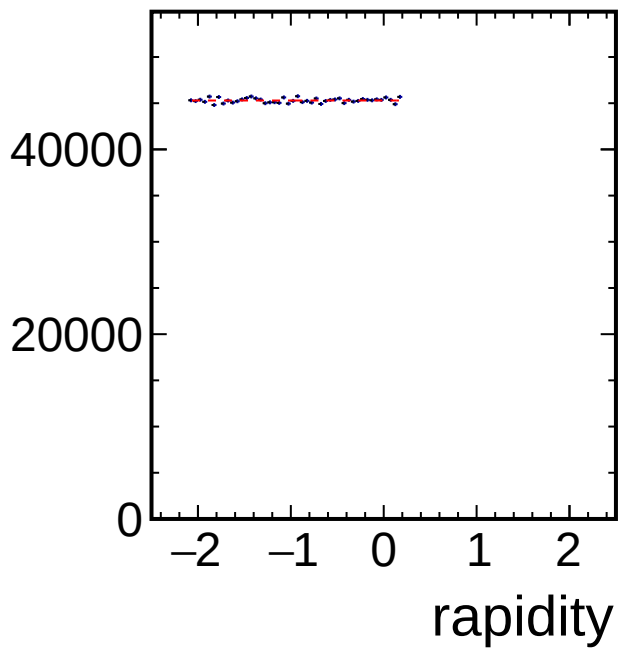
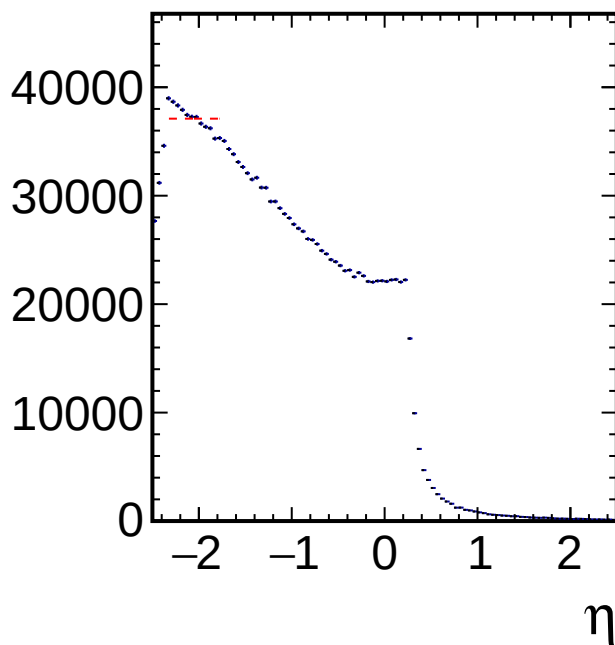
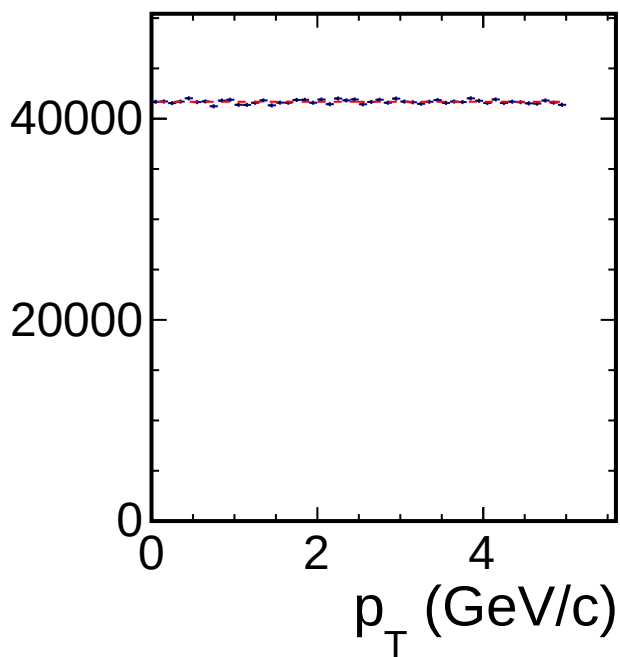
primary MC tracks



MC track QA (2D)

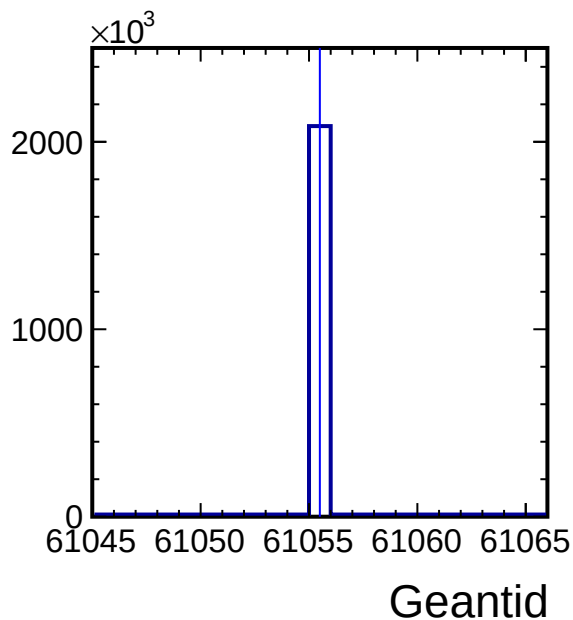


MC track QA (1D)

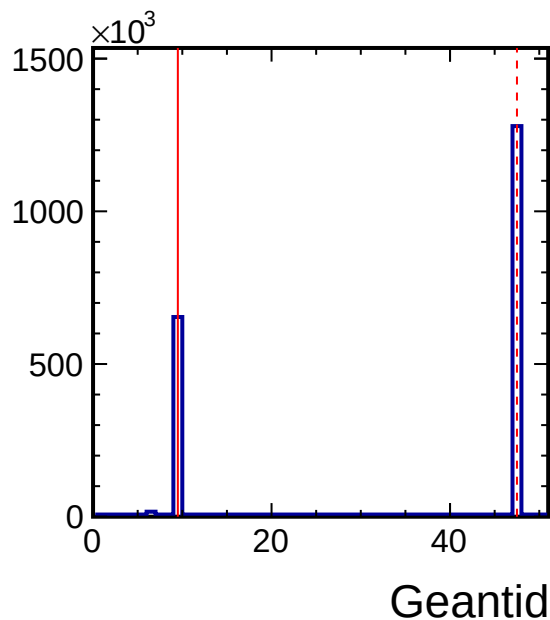


Geant id

nt id for H4Lambda



tructed geant id



Particle informations



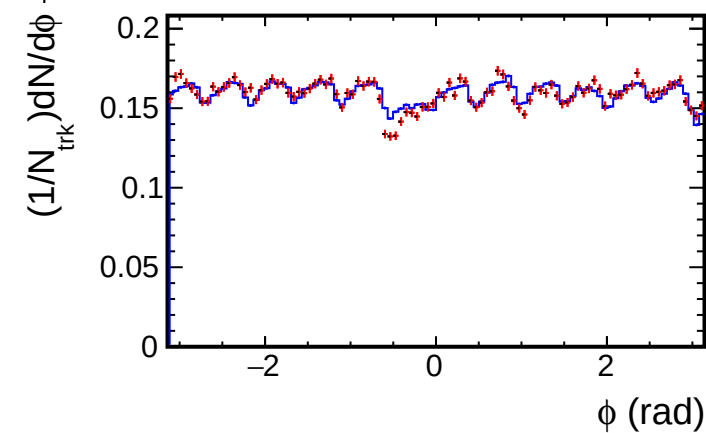
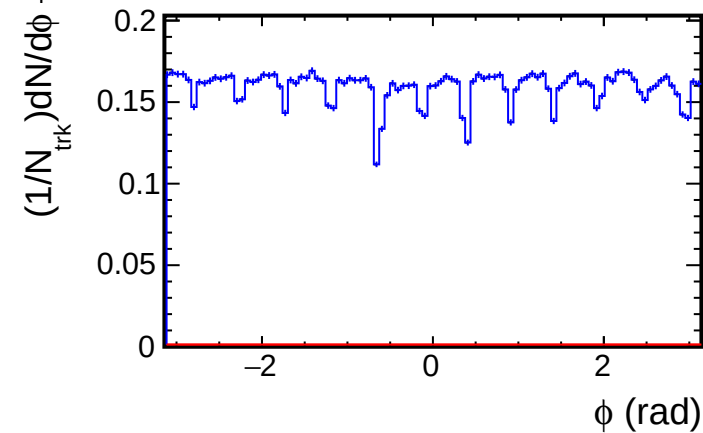
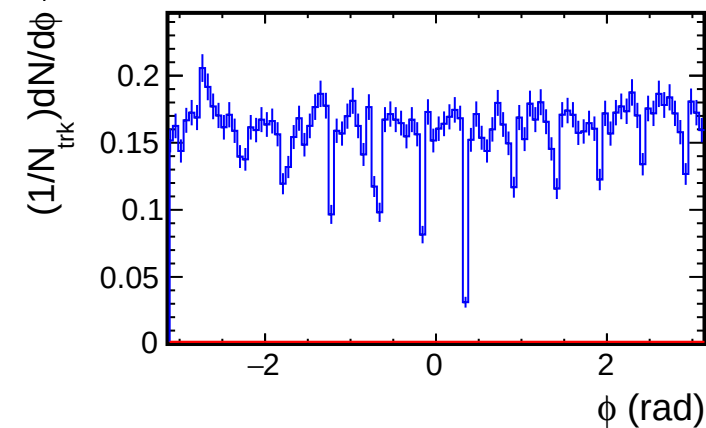
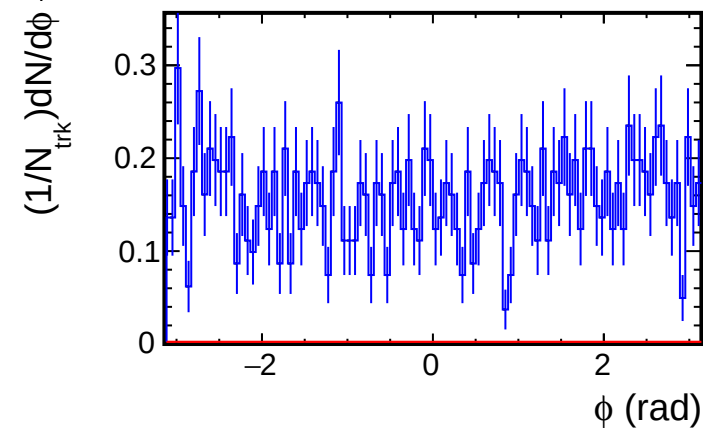
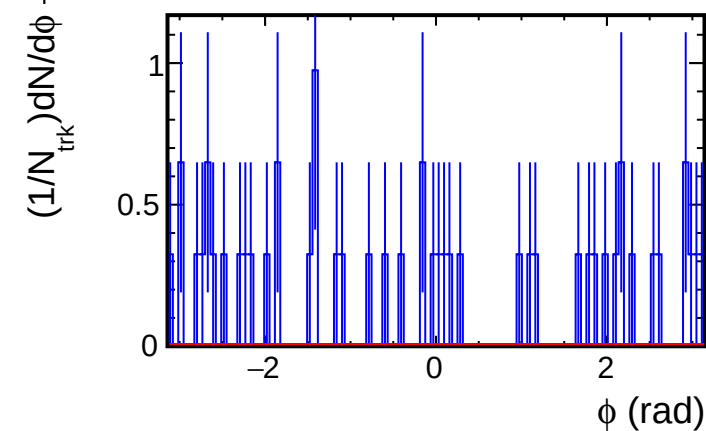
Parent H4Lambda (MC, geantid=61055)



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

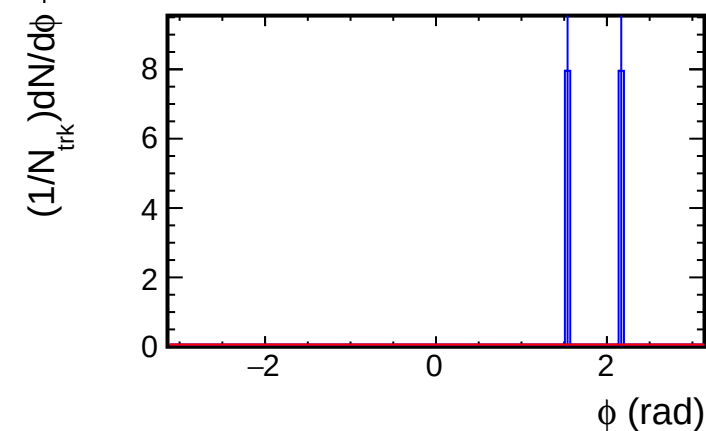
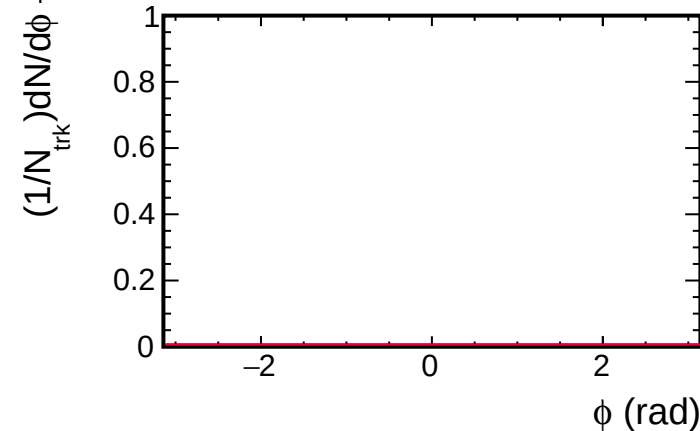
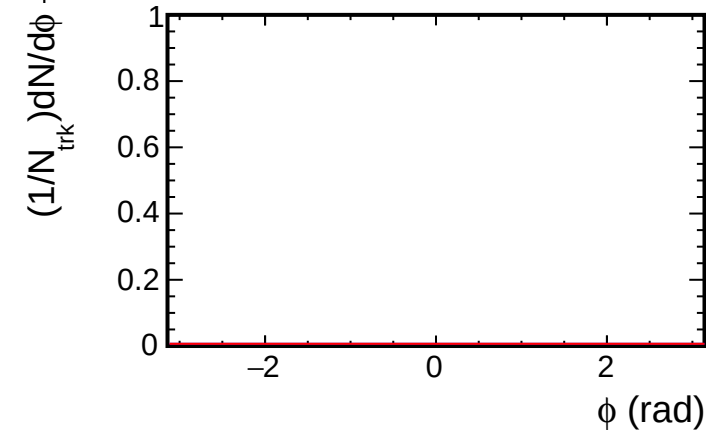
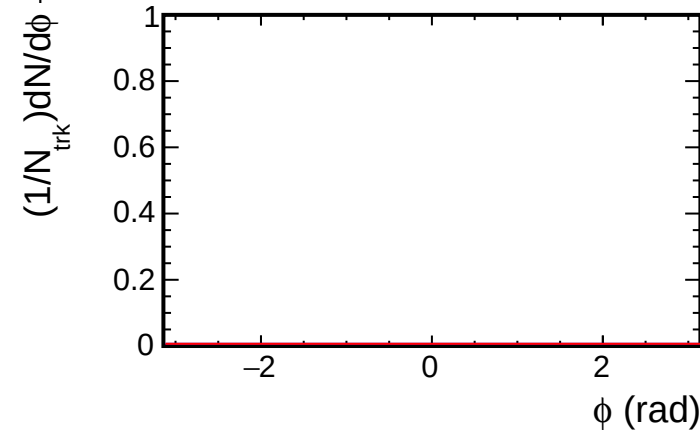
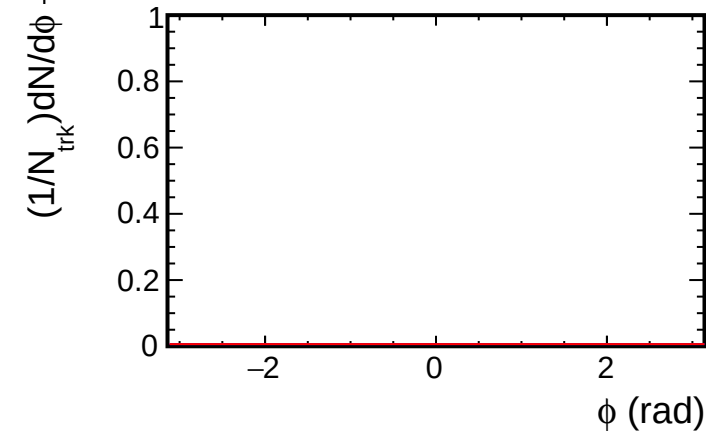


Daughter alpha (from H4Lambda) (CONTAM, geantid=47)

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

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

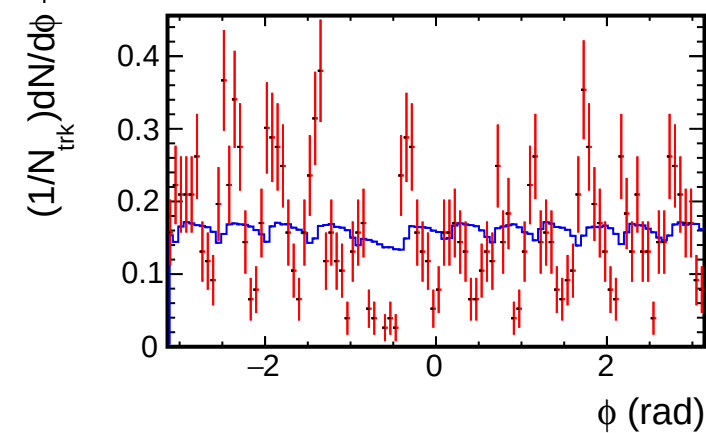
Projection of ϕ for each p_T bin $p_T < 3.0$ (GeV/c) $p_T < 3.5$ (GeV/c) $p_T < 4.0$ (GeV/c) $p_T < 4.5$ (GeV/c) $p_T < 5.0$ (GeV/c)

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

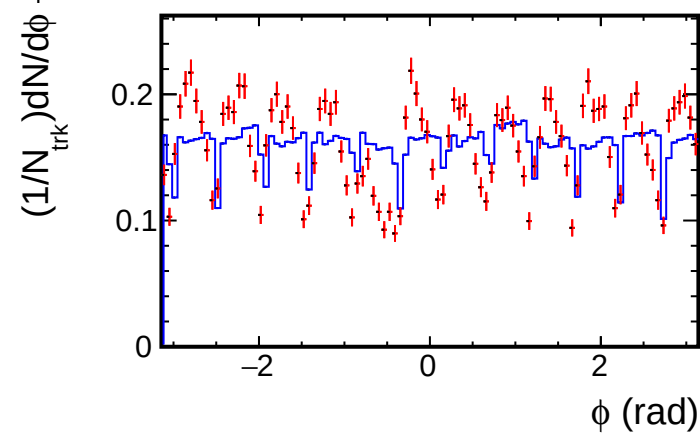
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

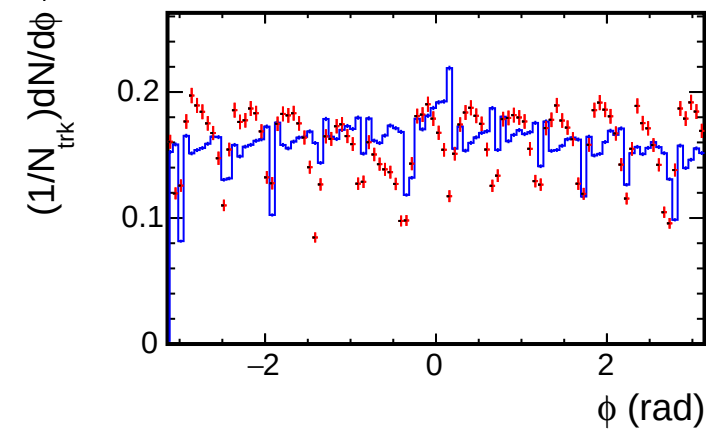
$p_T < 0.5$ (GeV/c)



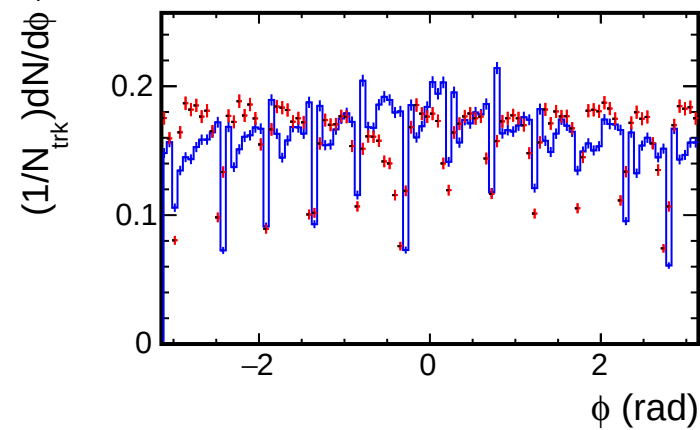
$p_T < 1.0$ (GeV/c)



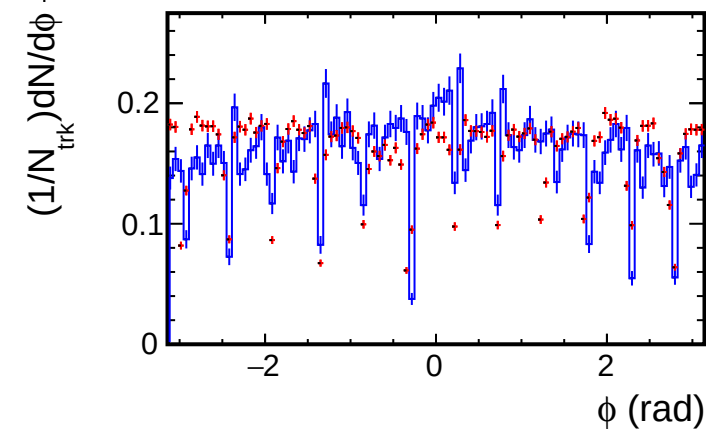
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

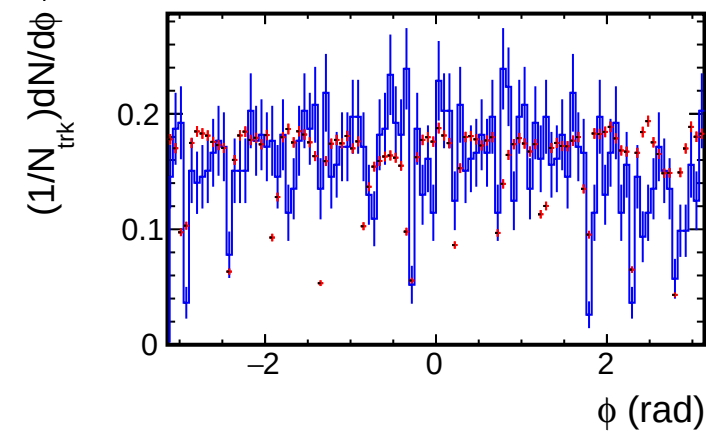


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

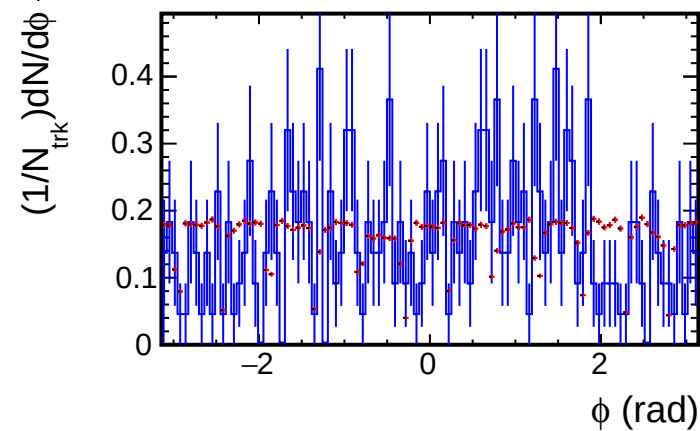
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

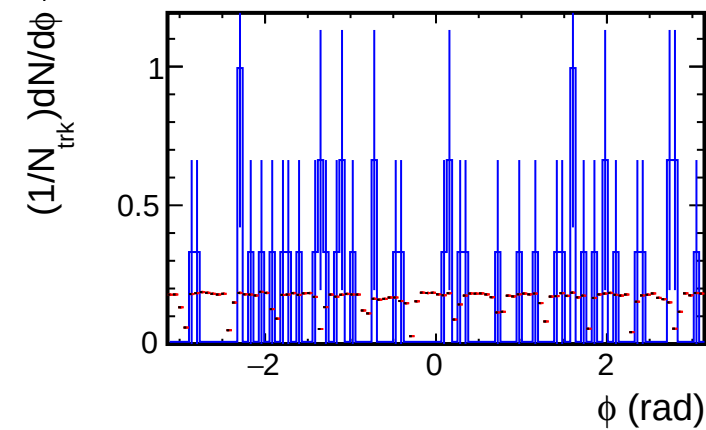
$p_T < 3.0$ (GeV/c)



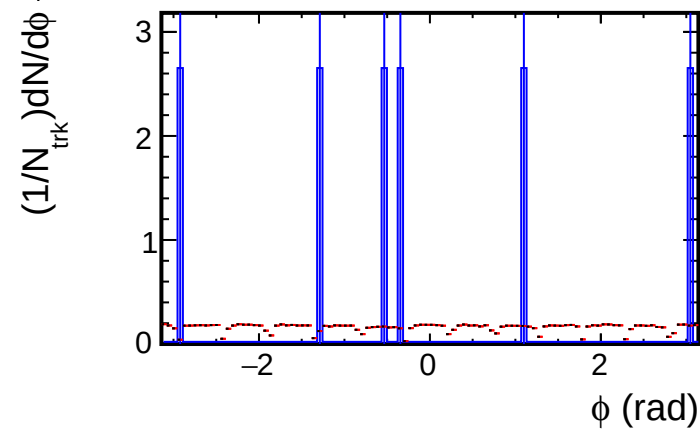
$p_T < 3.5$ (GeV/c)



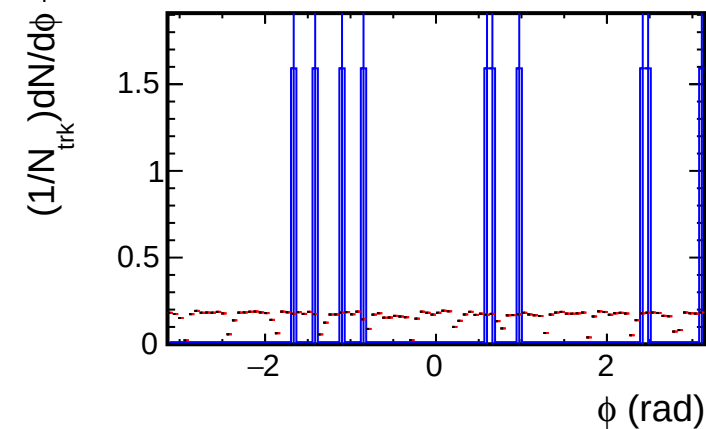
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)

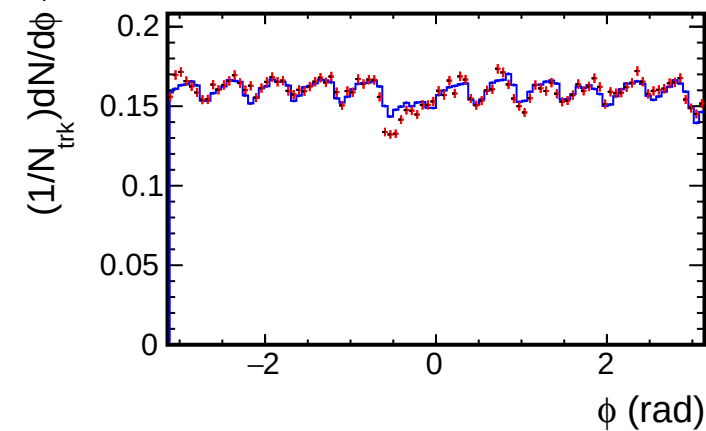
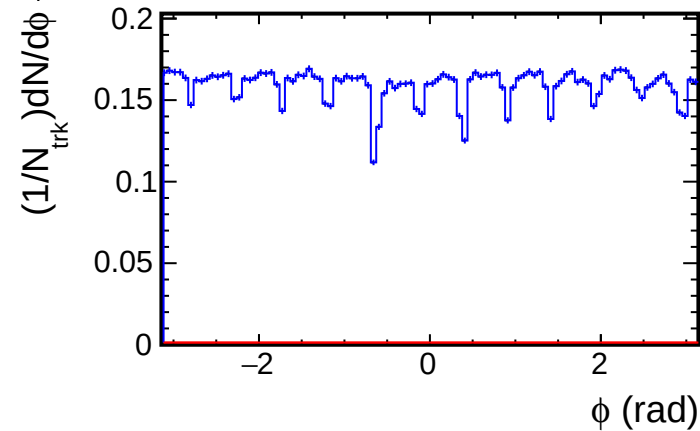
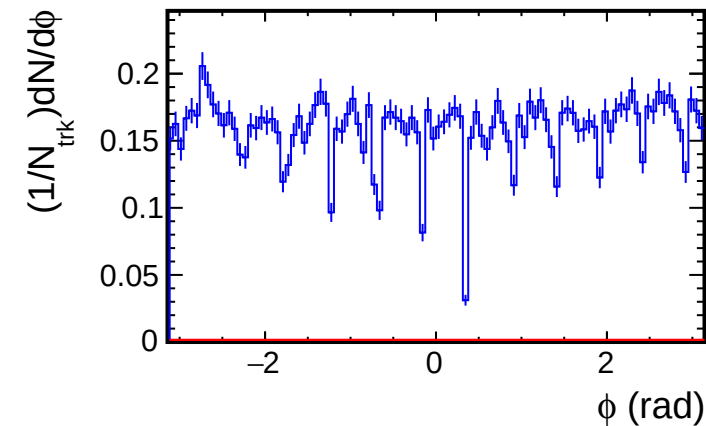
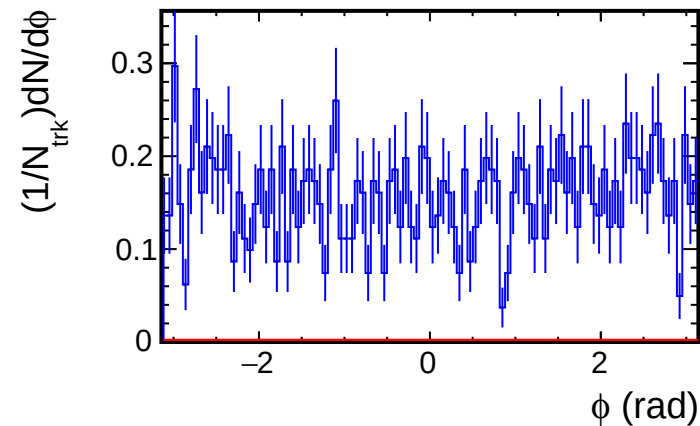
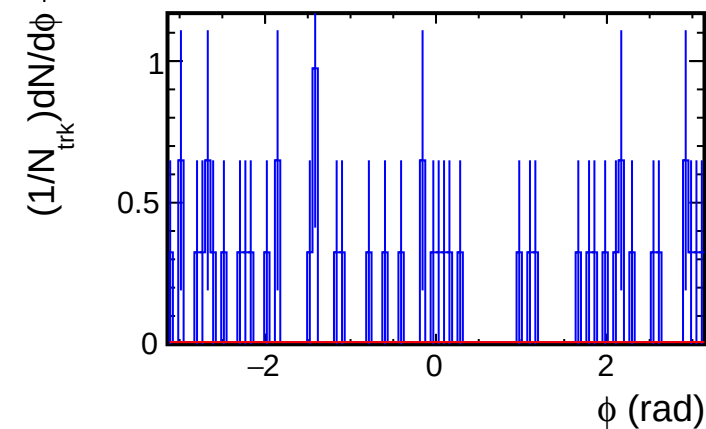


$p_T < 5.0$ (GeV/c)



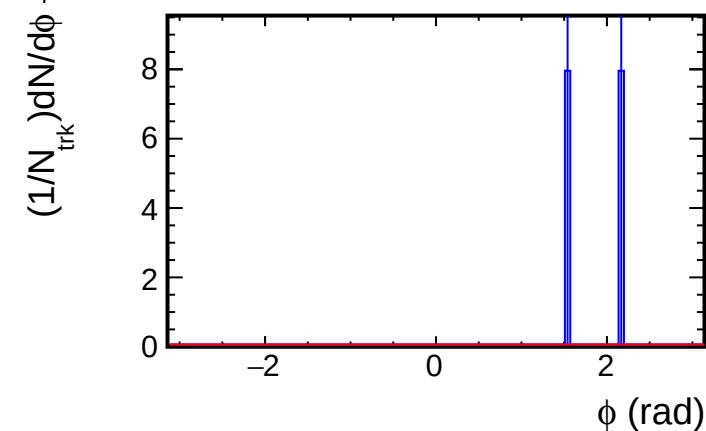
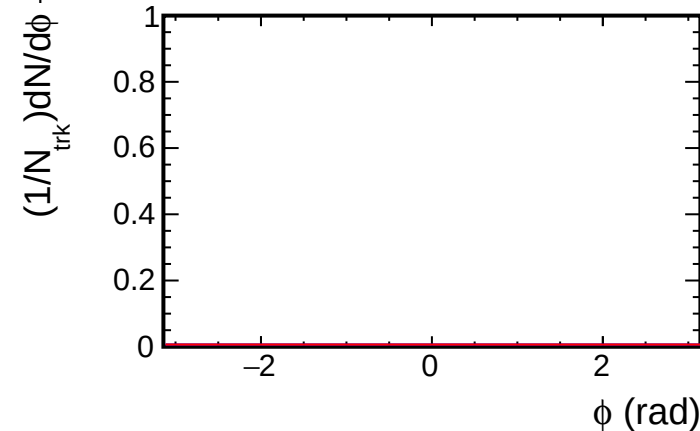
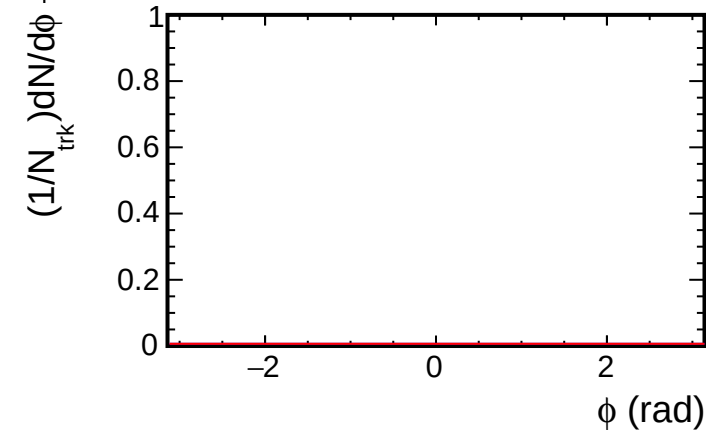
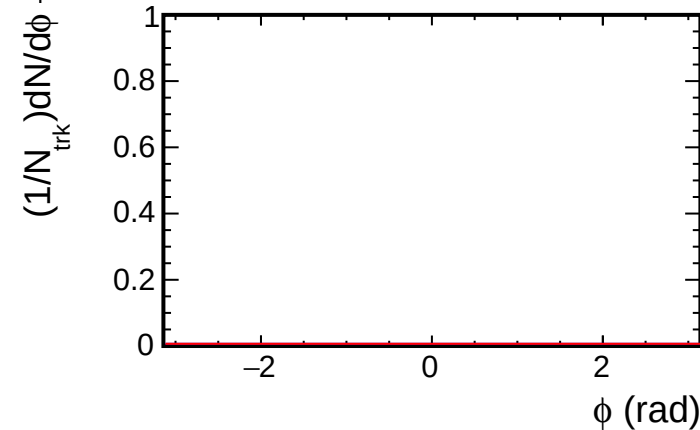
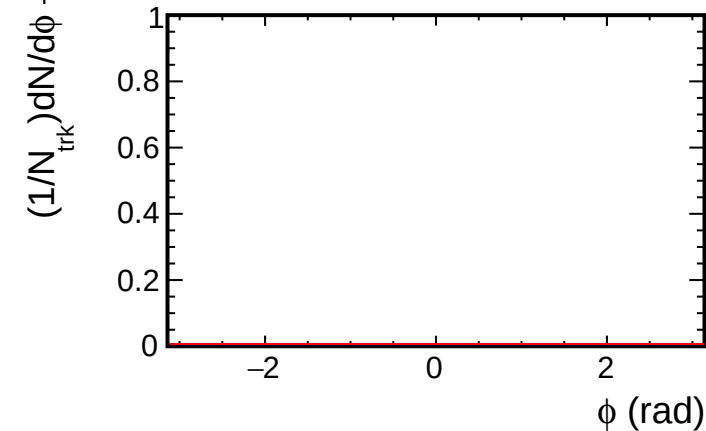
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Projection of 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)

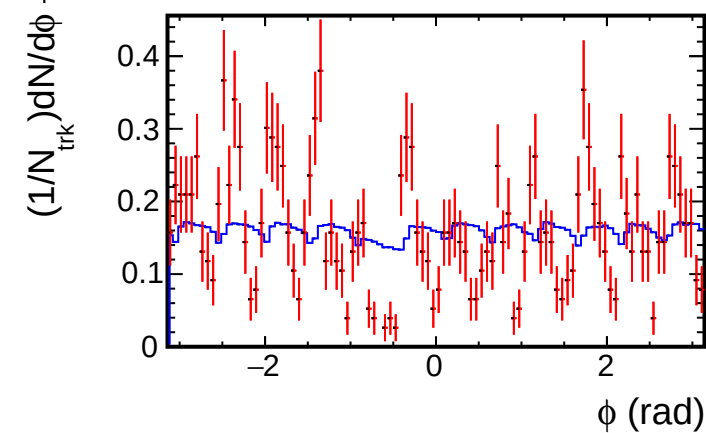
Projection of ϕ for each p_T bin $p_T < 3.0$ (GeV/c) $p_T < 3.5$ (GeV/c) $p_T < 4.0$ (GeV/c) $p_T < 4.5$ (GeV/c) $p_T < 5.0$ (GeV/c)

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

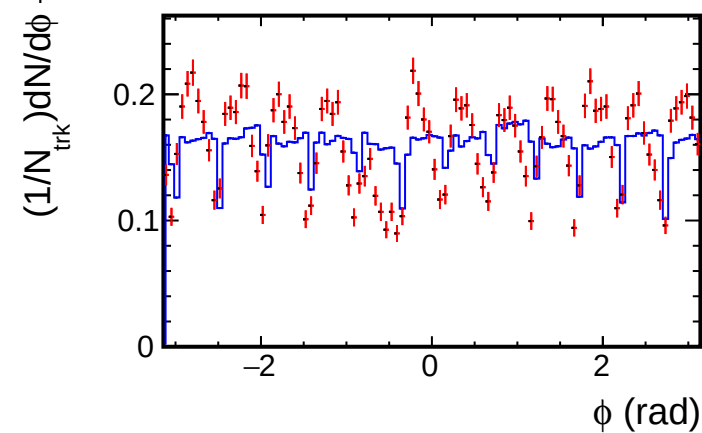
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of ϕ for each p_T bin

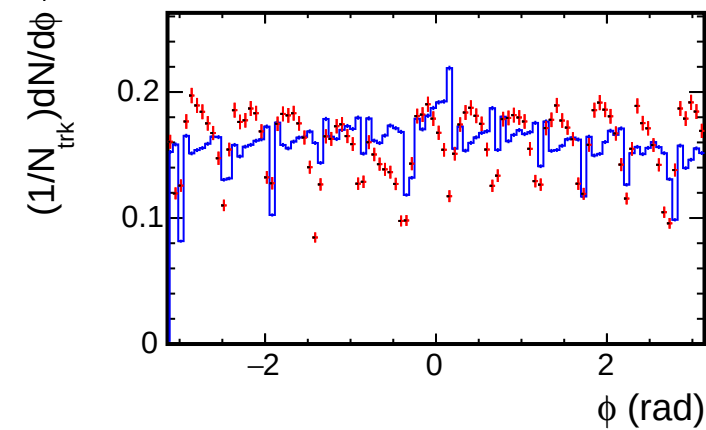
$p_T < 0.5$ (GeV/c)



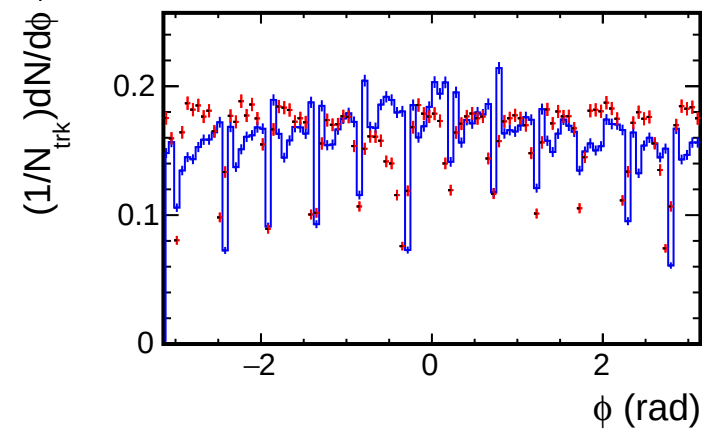
$p_T < 1.0$ (GeV/c)



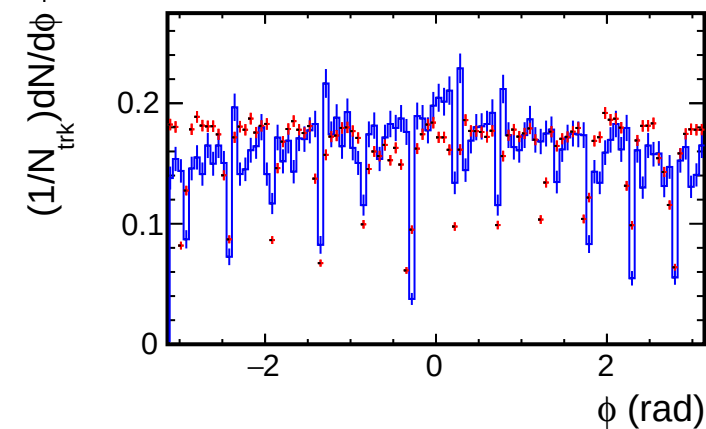
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

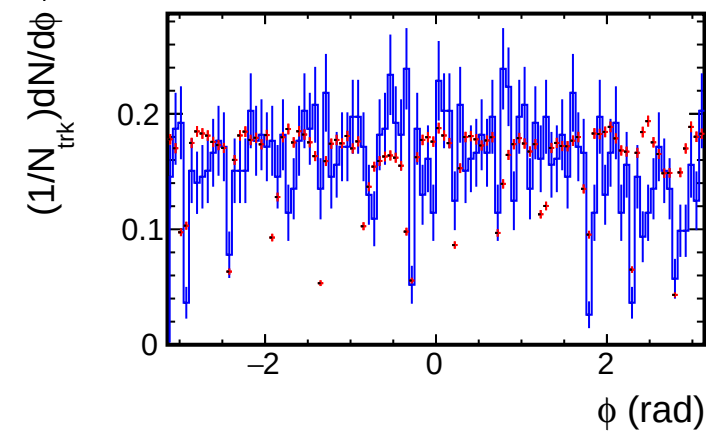


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

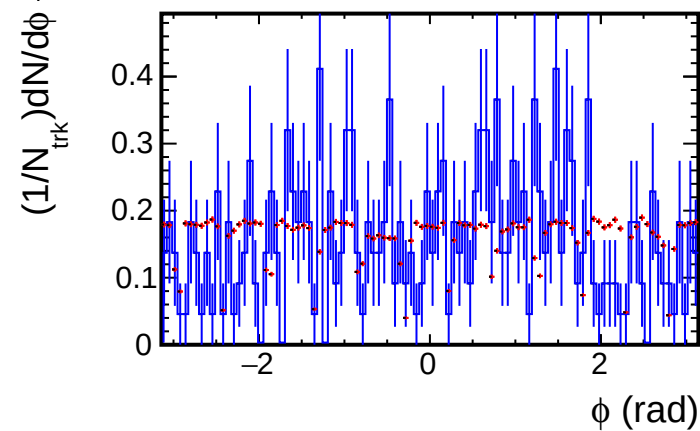
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of ϕ for each p_T bin

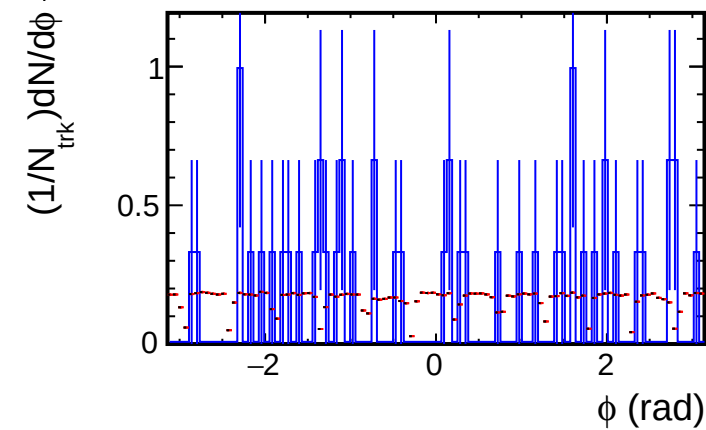
$p_T < 3.0$ (GeV/c)



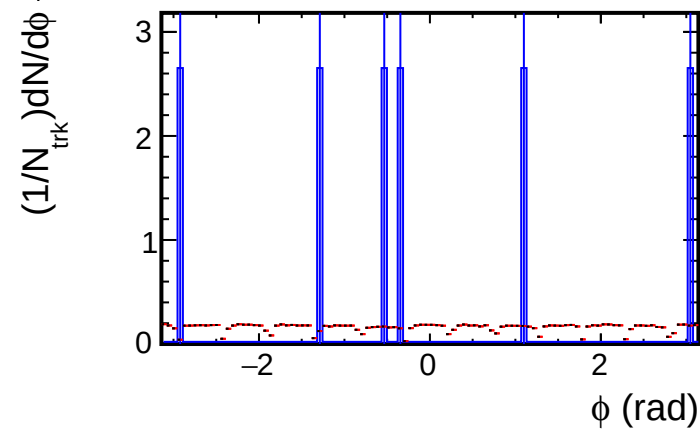
$p_T < 3.5$ (GeV/c)



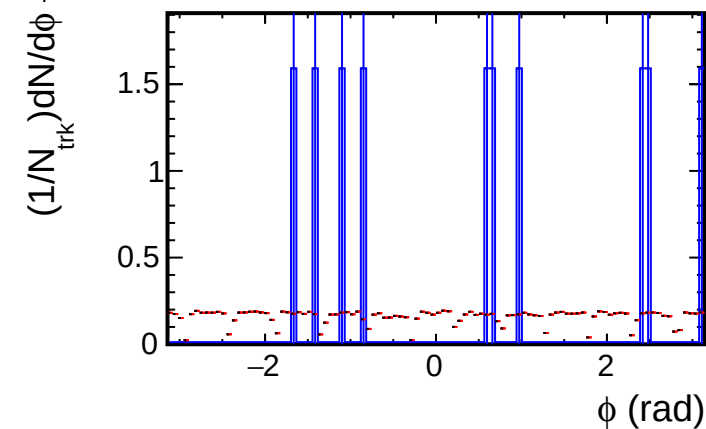
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

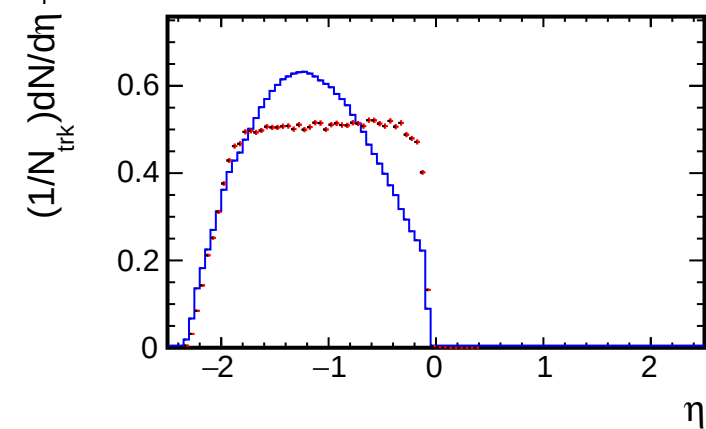


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

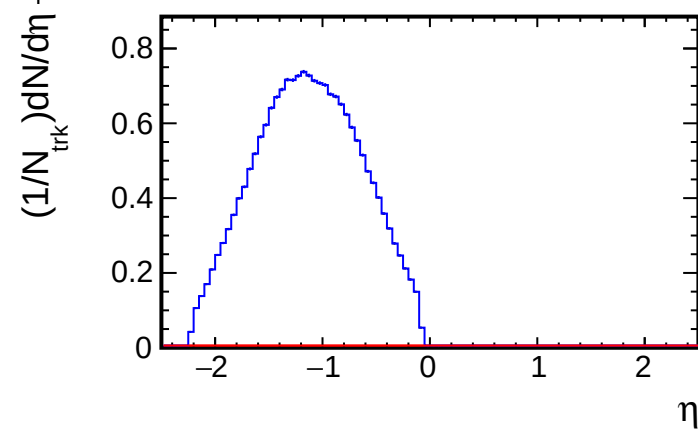
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of η for each p_T bin

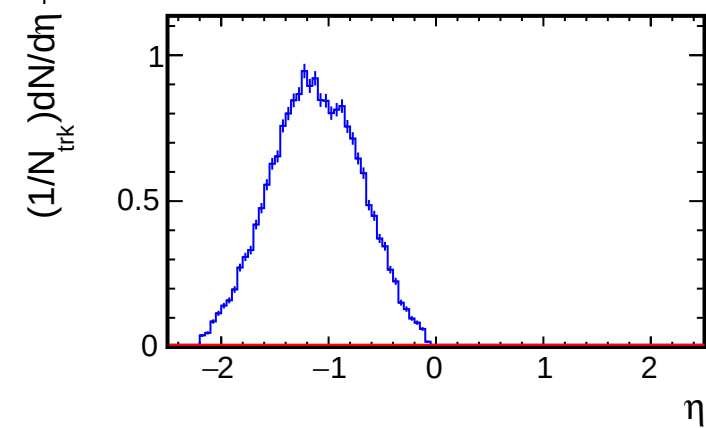
$p_T < 0.5$ (GeV/c)



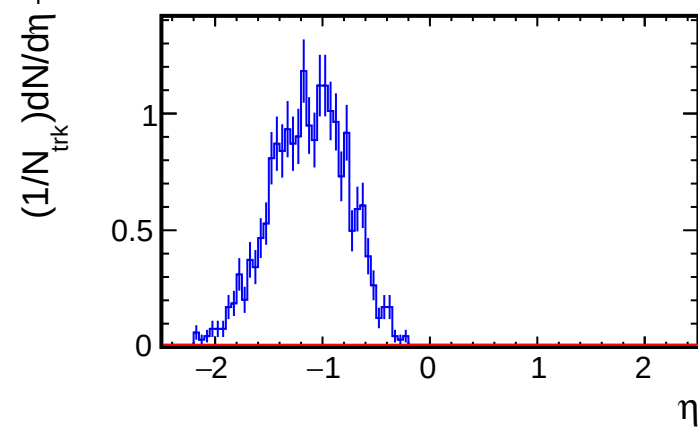
$p_T < 1.0$ (GeV/c)



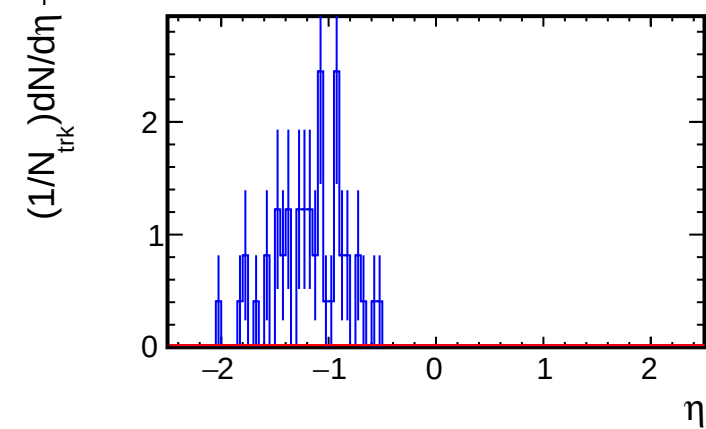
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)

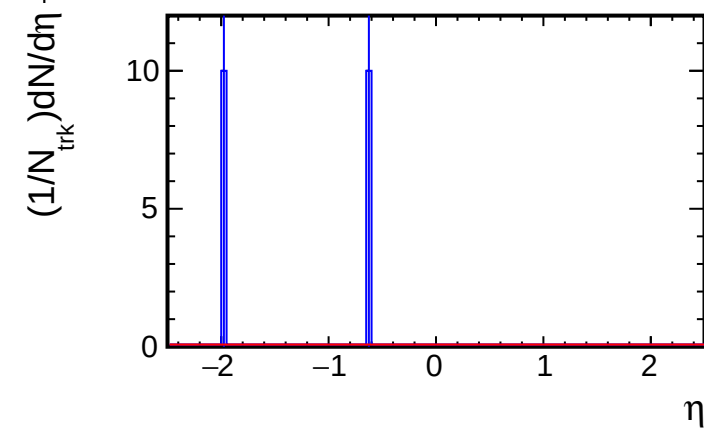
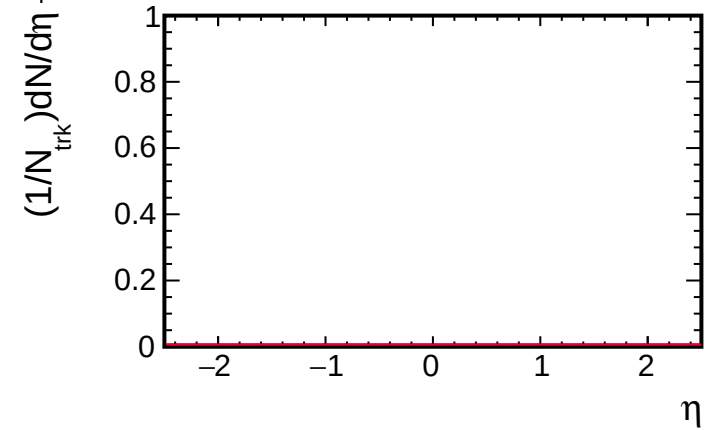
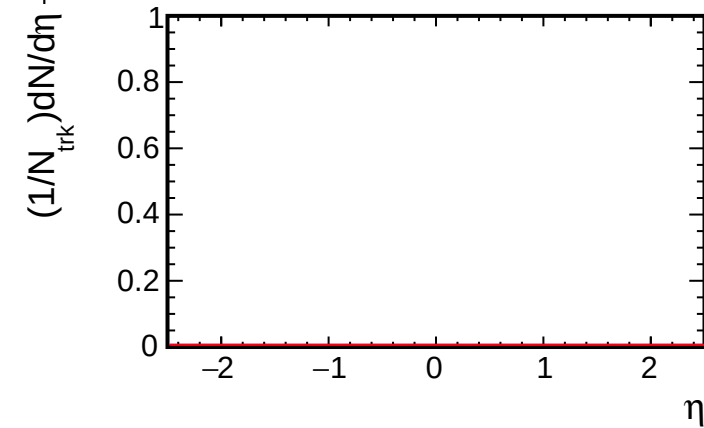
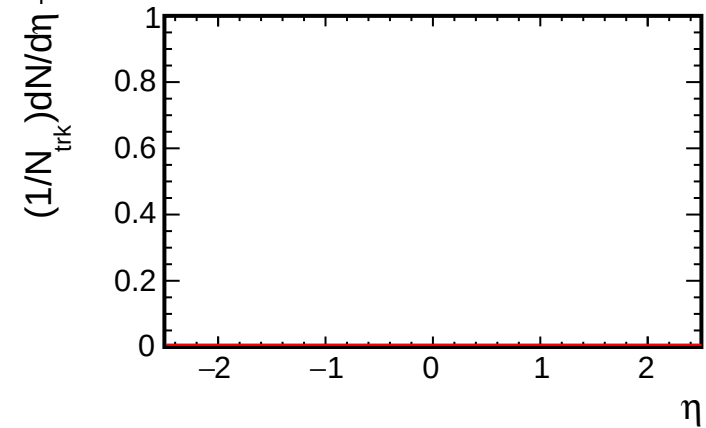
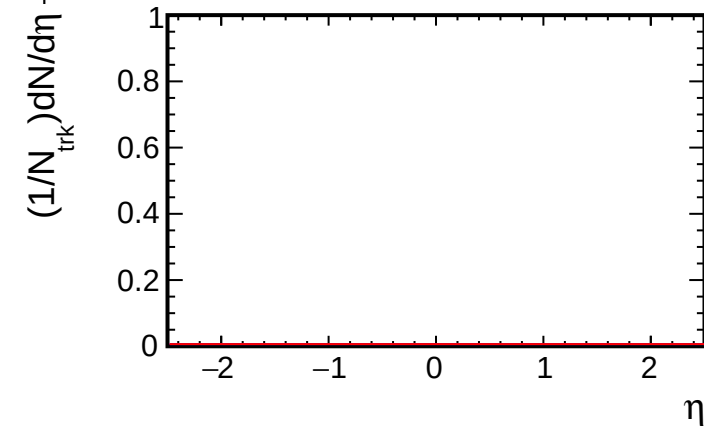


$p_T < 2.5$ (GeV/c)



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

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

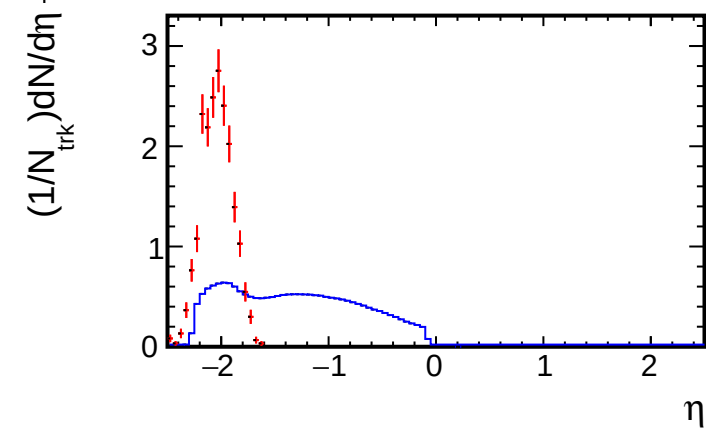
Projection of η for each p_T bin $p_T < 3.0$ (GeV/c) $p_T < 3.5$ (GeV/c) $p_T < 4.0$ (GeV/c) $p_T < 4.5$ (GeV/c) $p_T < 5.0$ (GeV/c)

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

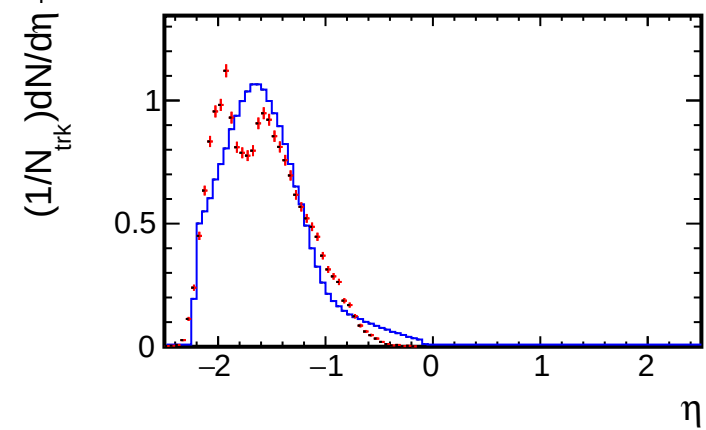
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of η for each p_T bin

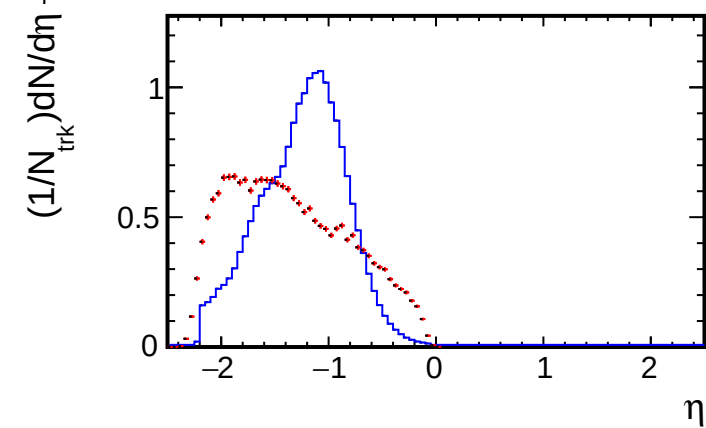
$p_T < 0.5$ (GeV/c)



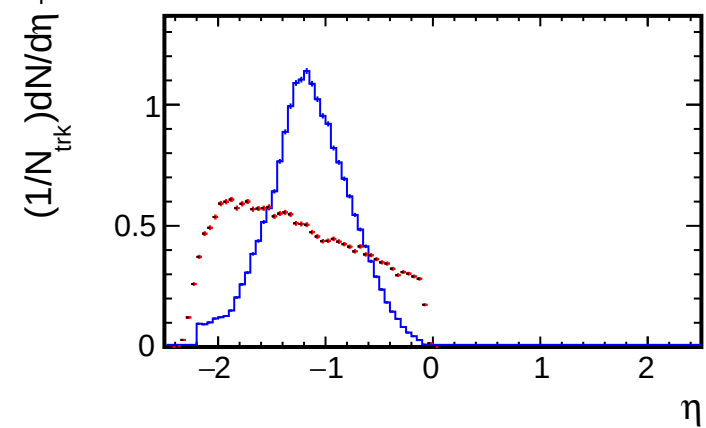
$p_T < 1.0$ (GeV/c)



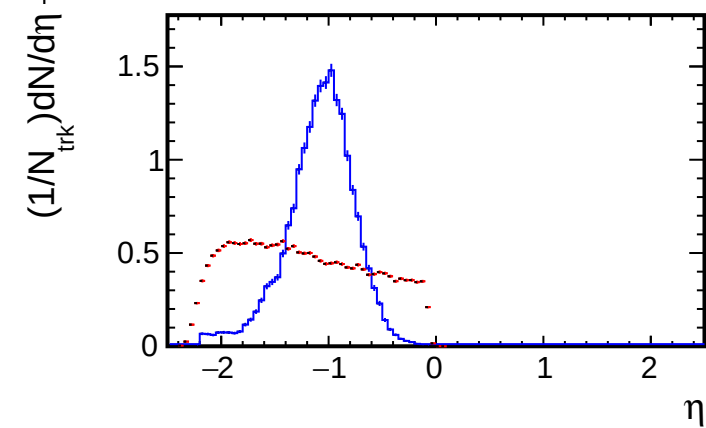
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

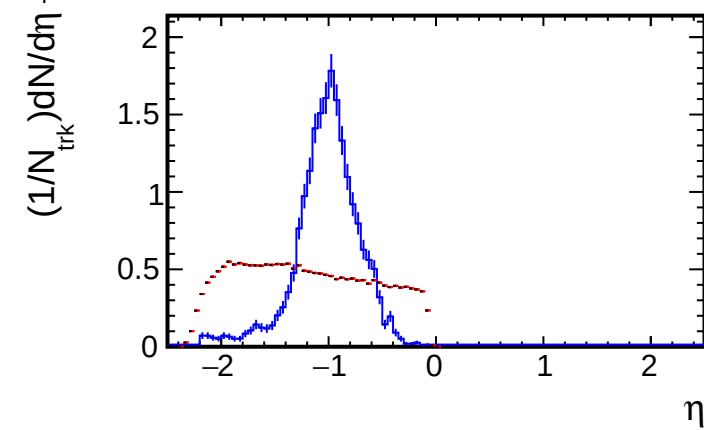


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

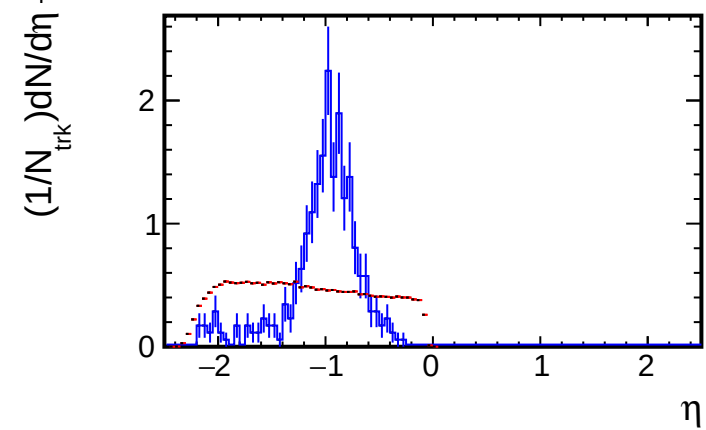
— π^+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of η for each p_T bin

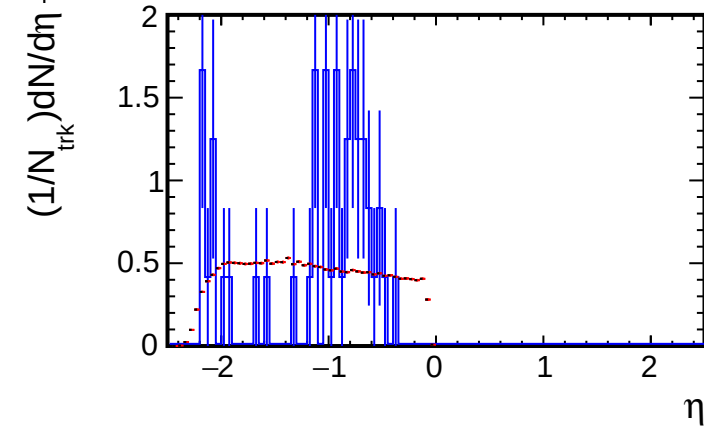
$p_T < 3.0$ (GeV/c)



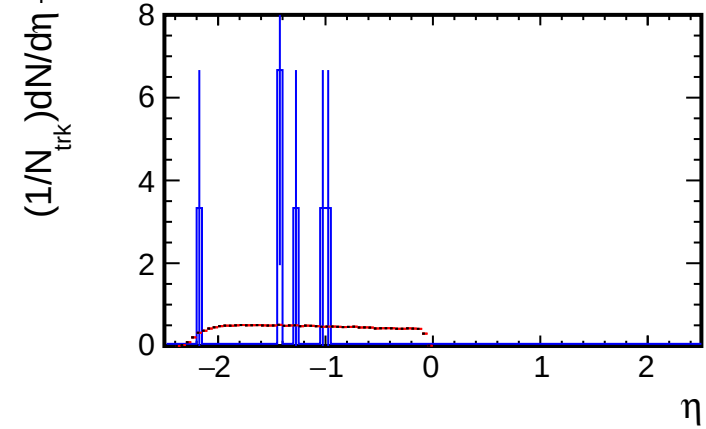
$p_T < 3.5$ (GeV/c)



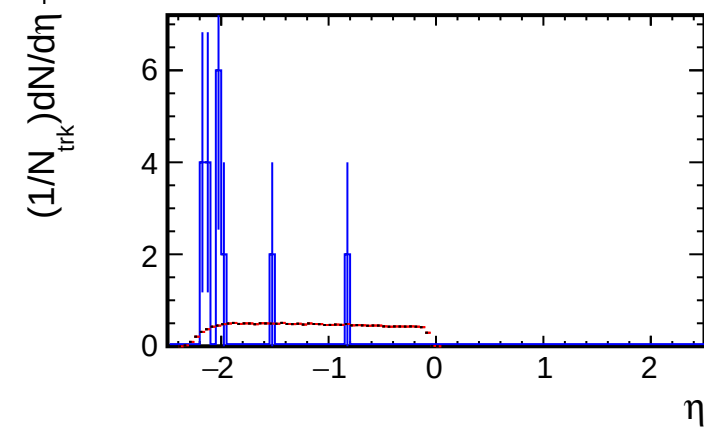
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



$p_T < 5.0$ (GeV/c)

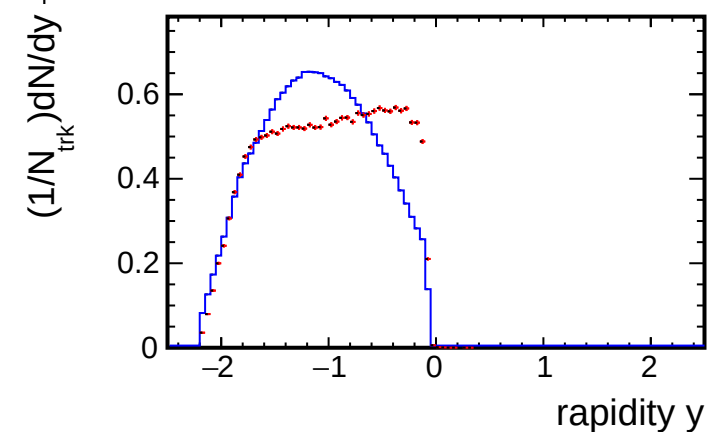


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

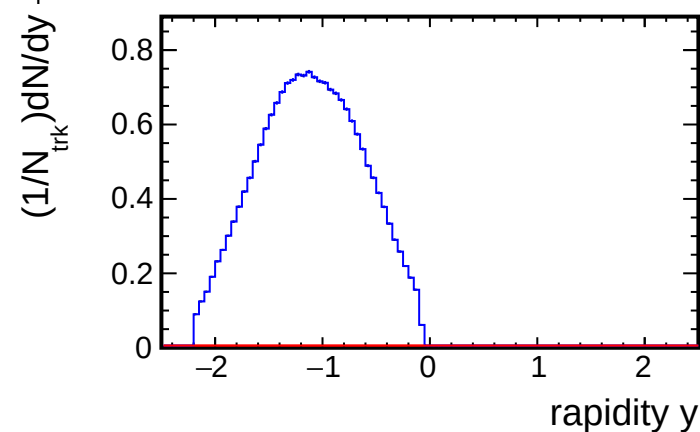
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}^+}| < 2$ TPC)

Projection of y for each p_T bin

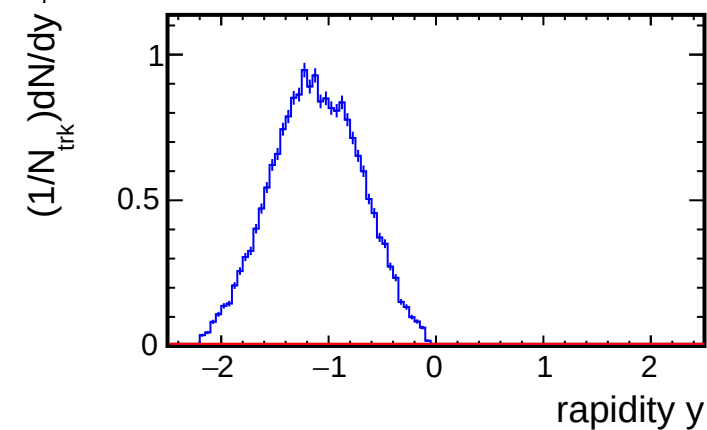
$p_T < 0.5$ (GeV/c)



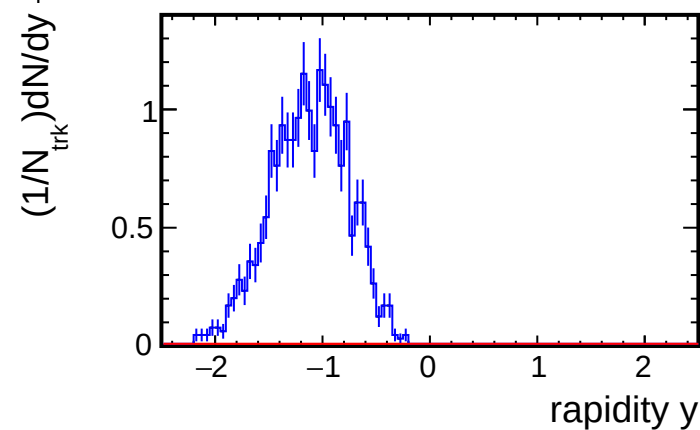
$p_T < 1.0$ (GeV/c)



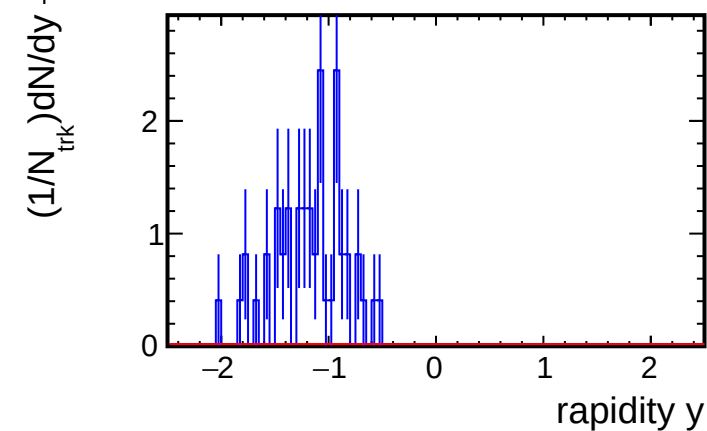
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)

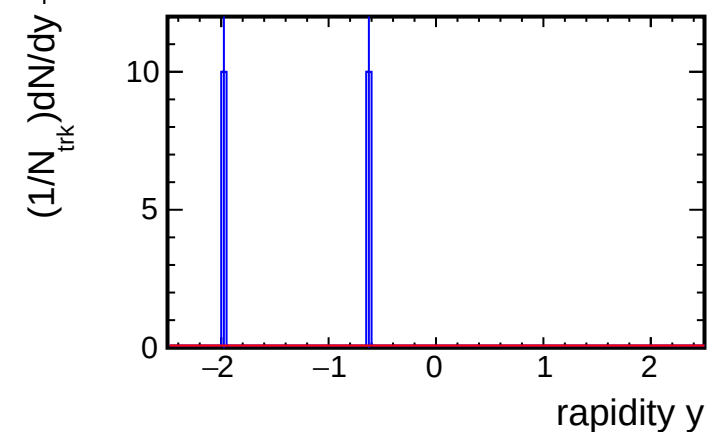
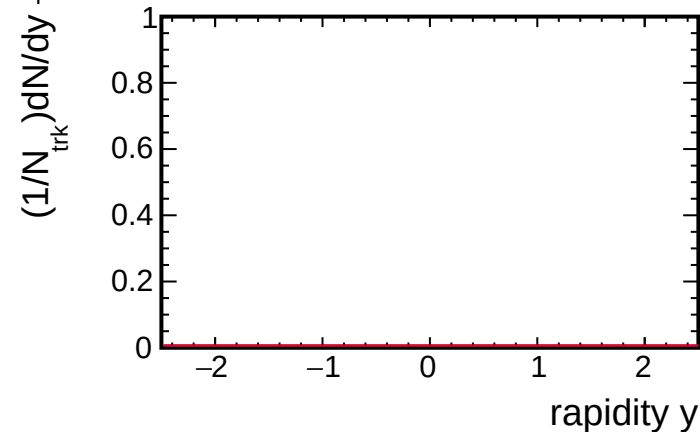
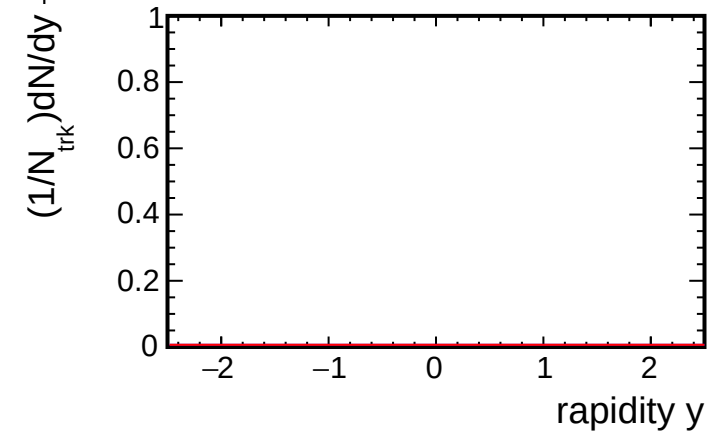
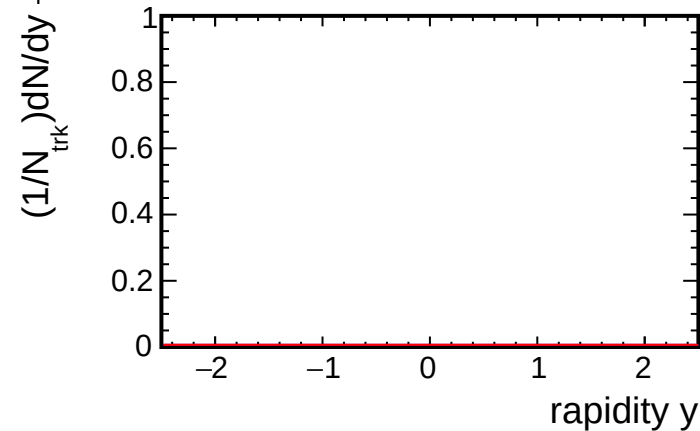
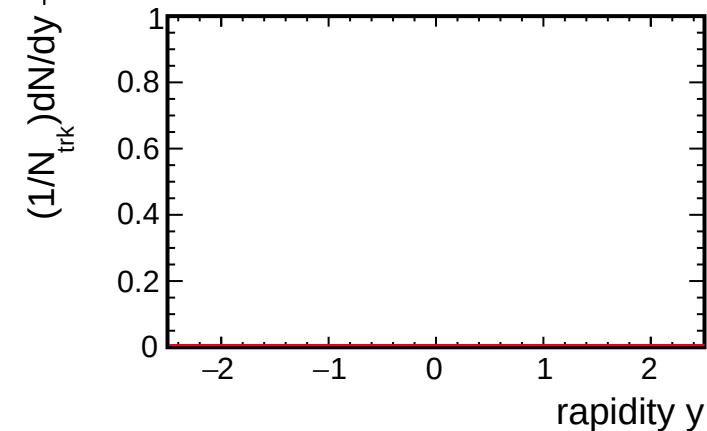


$p_T < 2.5$ (GeV/c)



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

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

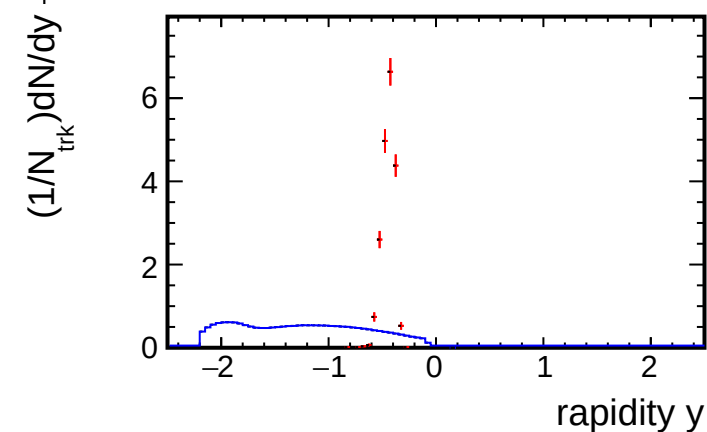
Projection of y for each p_T bin $p_T < 3.0$ (GeV/c) $p_T < 3.5$ (GeV/c) $p_T < 4.0$ (GeV/c) $p_T < 4.5$ (GeV/c) $p_T < 5.0$ (GeV/c)

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

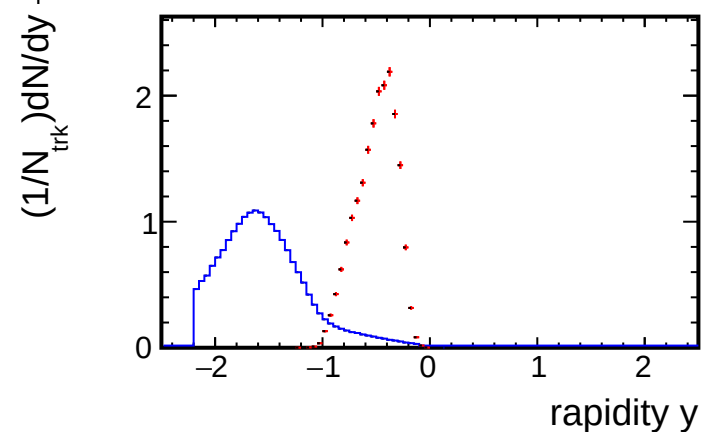
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

Projection of y for each p_T bin

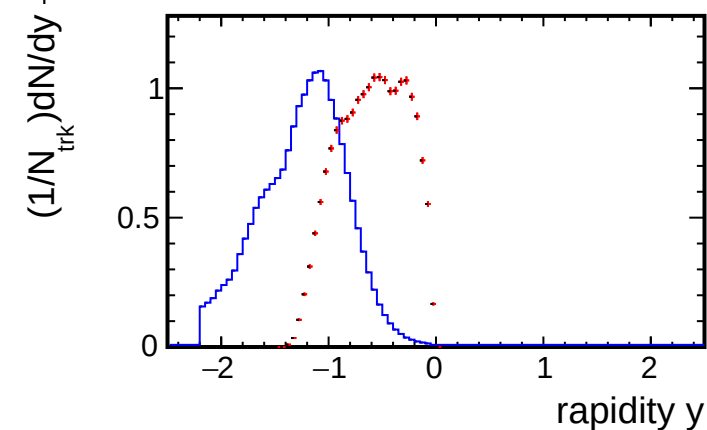
$p_T < 0.5$ (GeV/c)



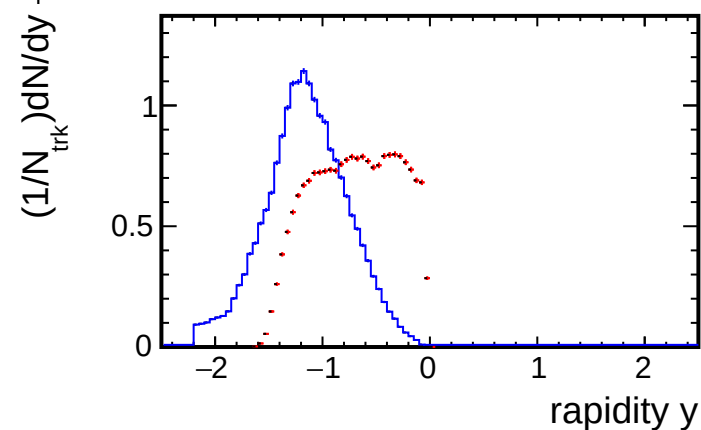
$p_T < 1.0$ (GeV/c)



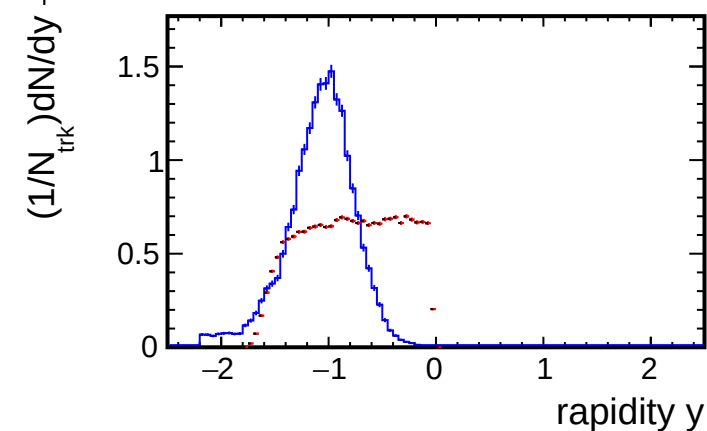
$p_T < 1.5$ (GeV/c)



$p_T < 2.0$ (GeV/c)



$p_T < 2.5$ (GeV/c)

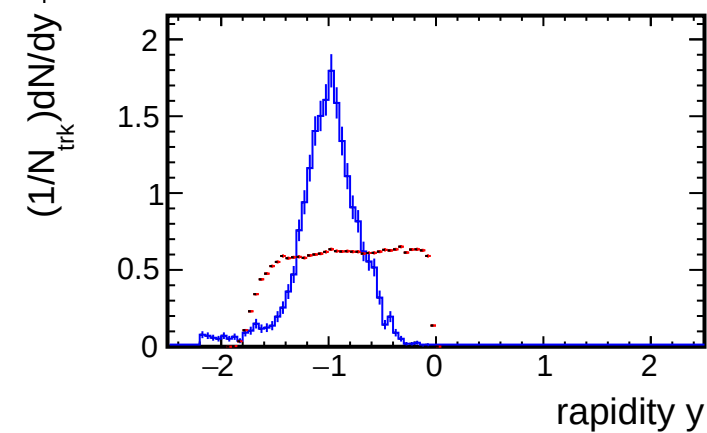


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

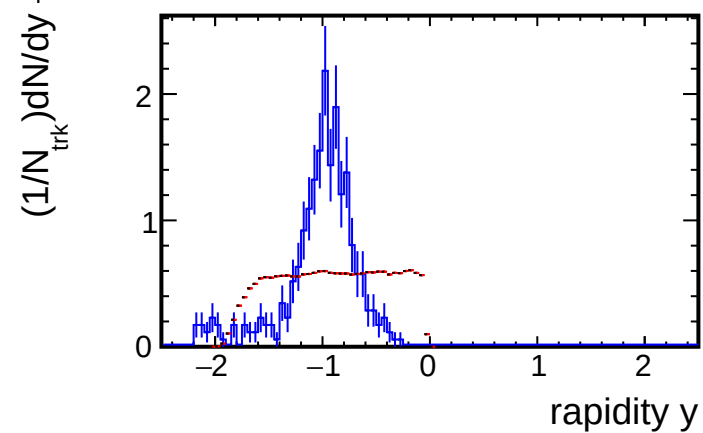
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Projection of y for each p_T bin

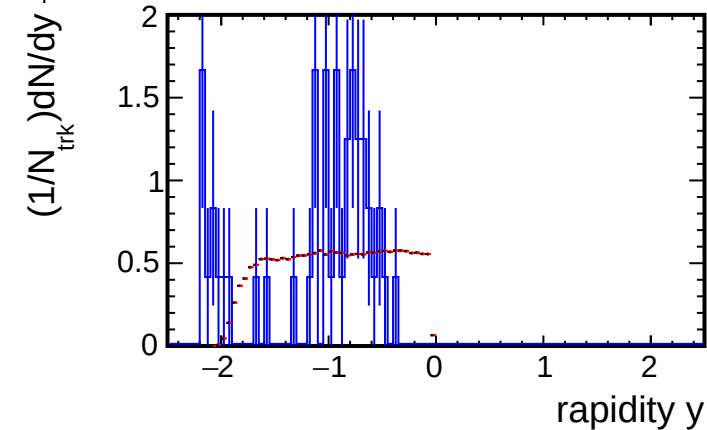
$p_T < 3.0$ (GeV/c)



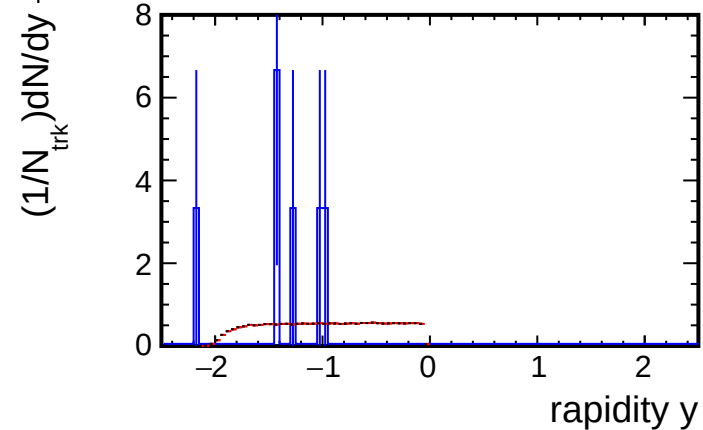
$p_T < 3.5$ (GeV/c)



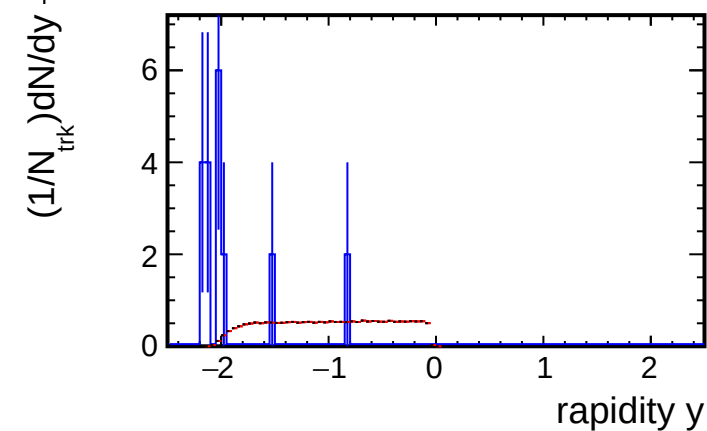
$p_T < 4.0$ (GeV/c)



$p_T < 4.5$ (GeV/c)



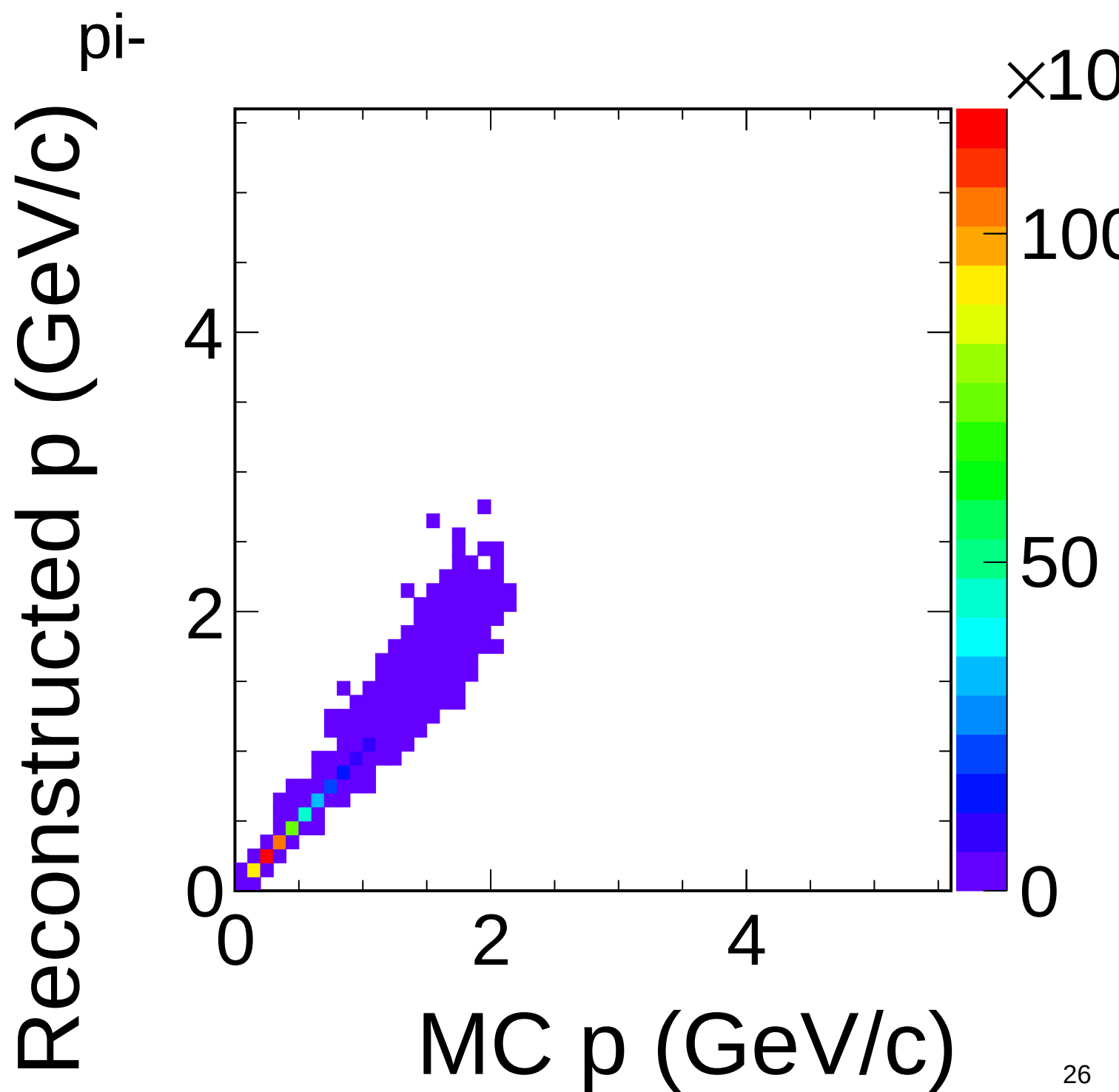
$p_T < 5.0$ (GeV/c)



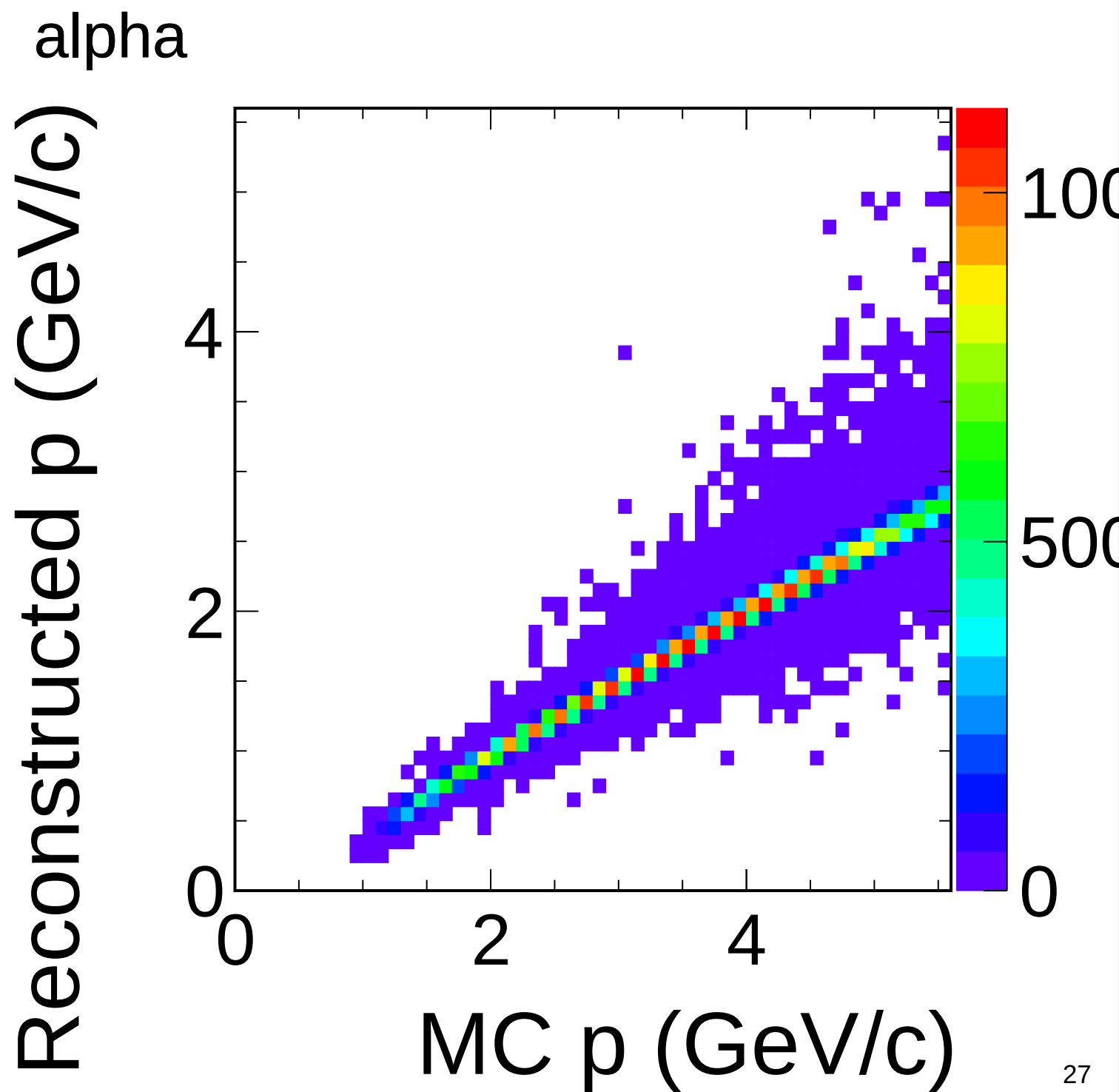
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

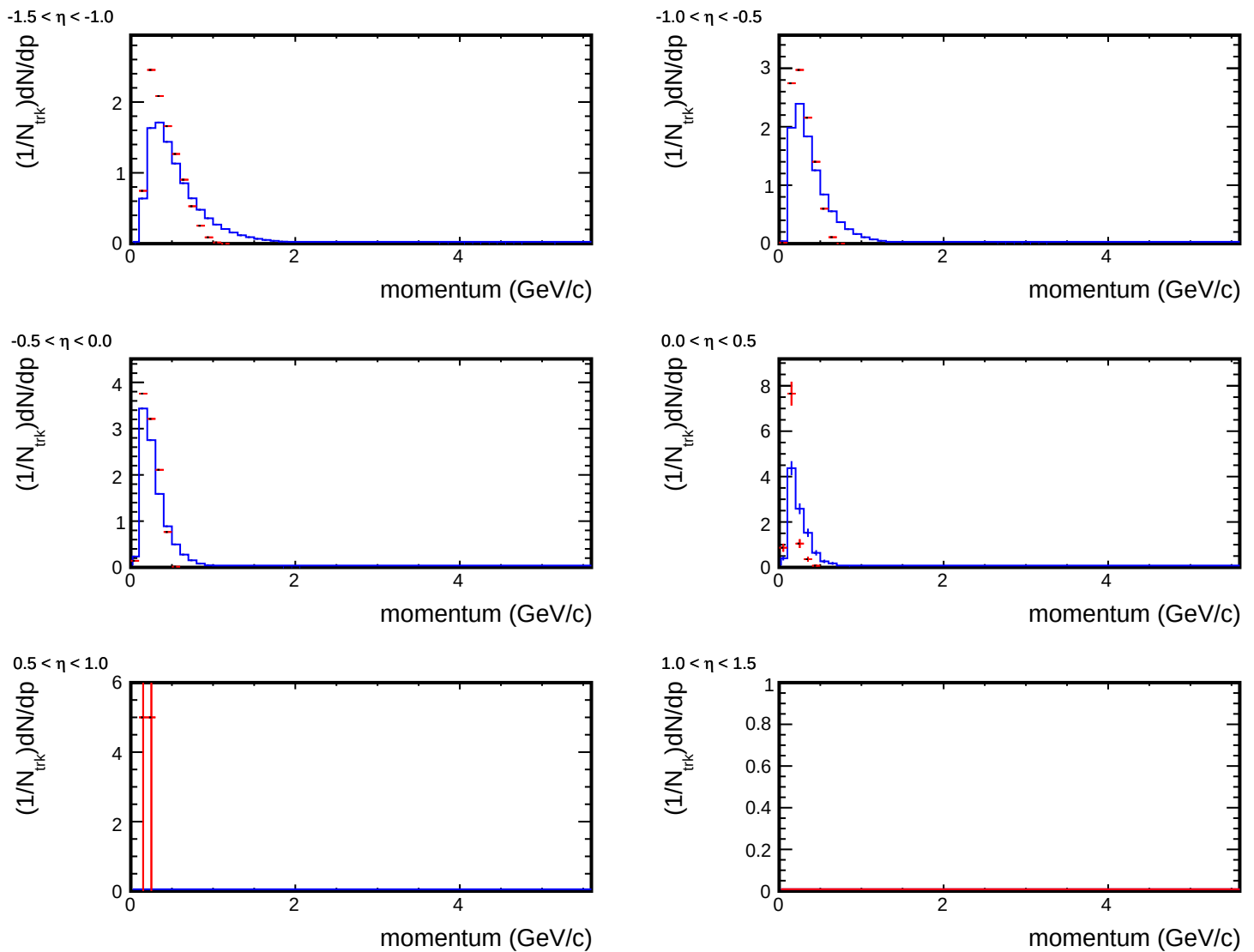
— π^+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Reconstructed momentum vs MC momentum



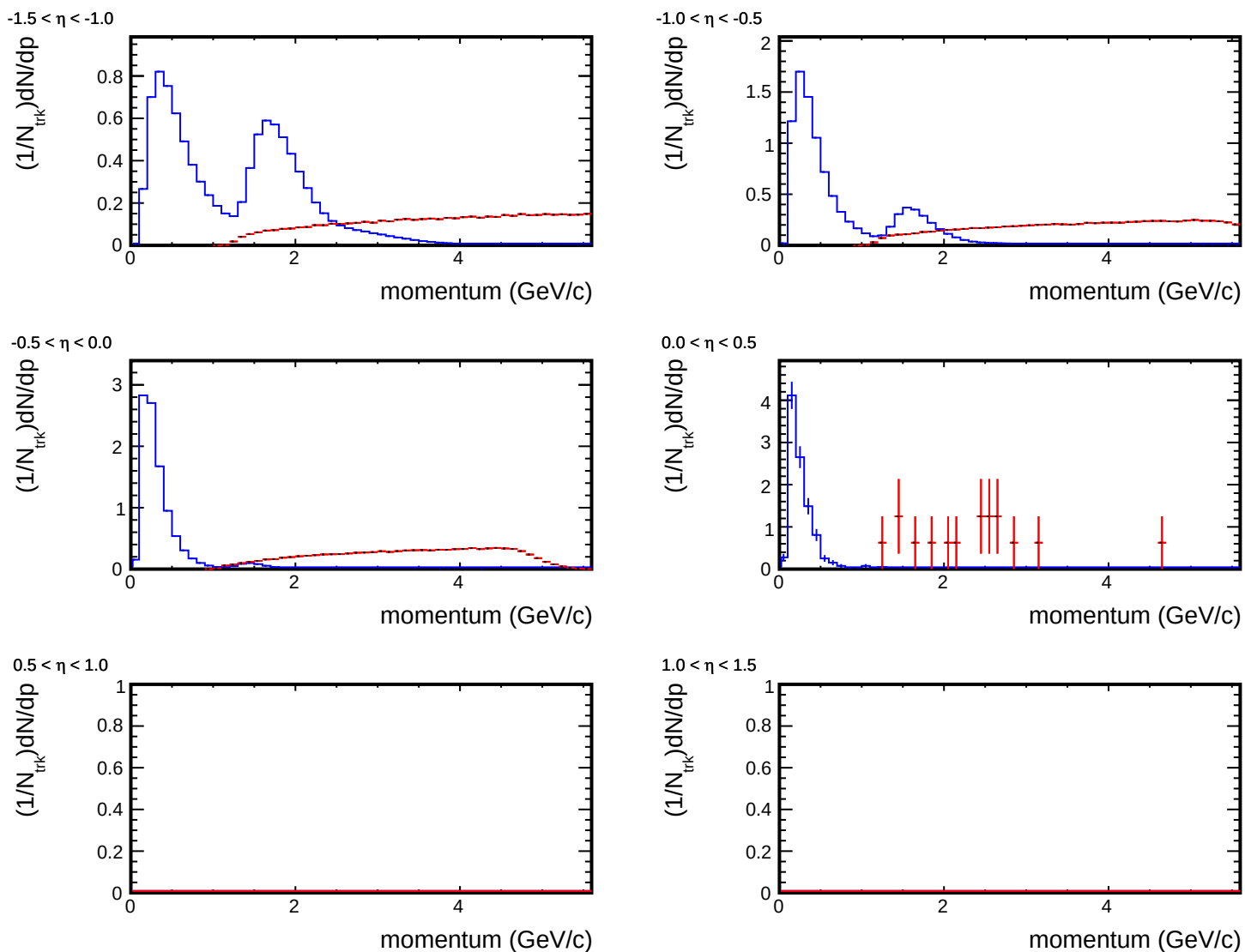
Reconstructed momentum vs MC momentum



Projection of p for each η bin

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

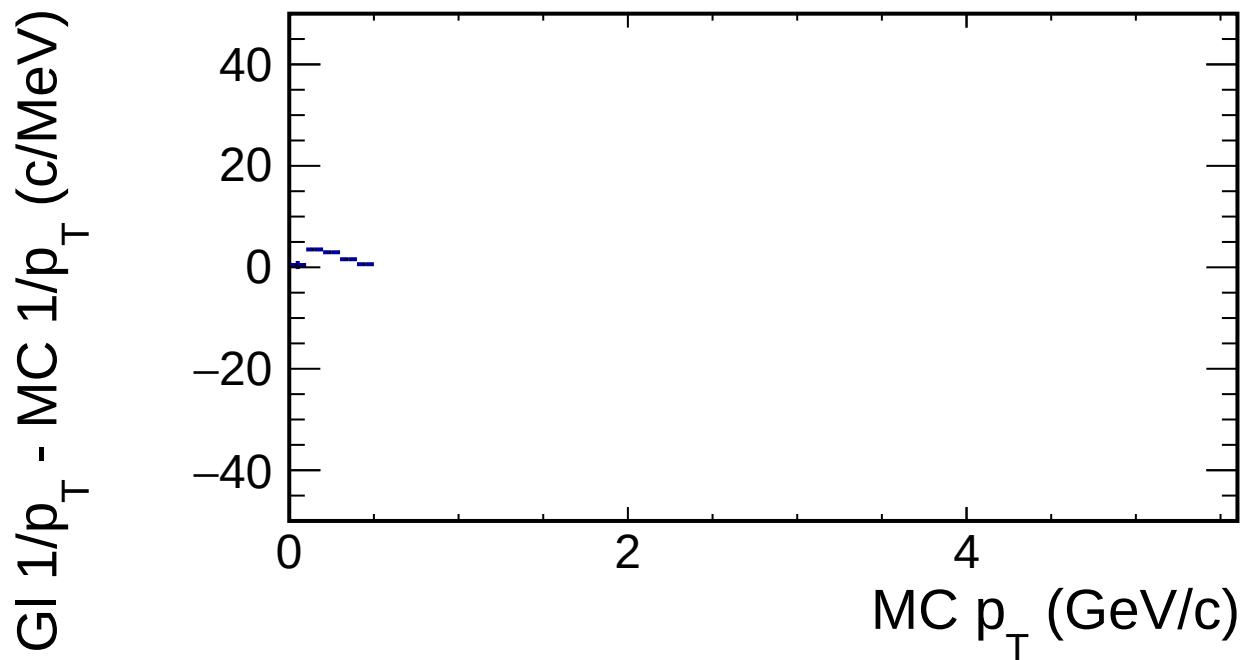
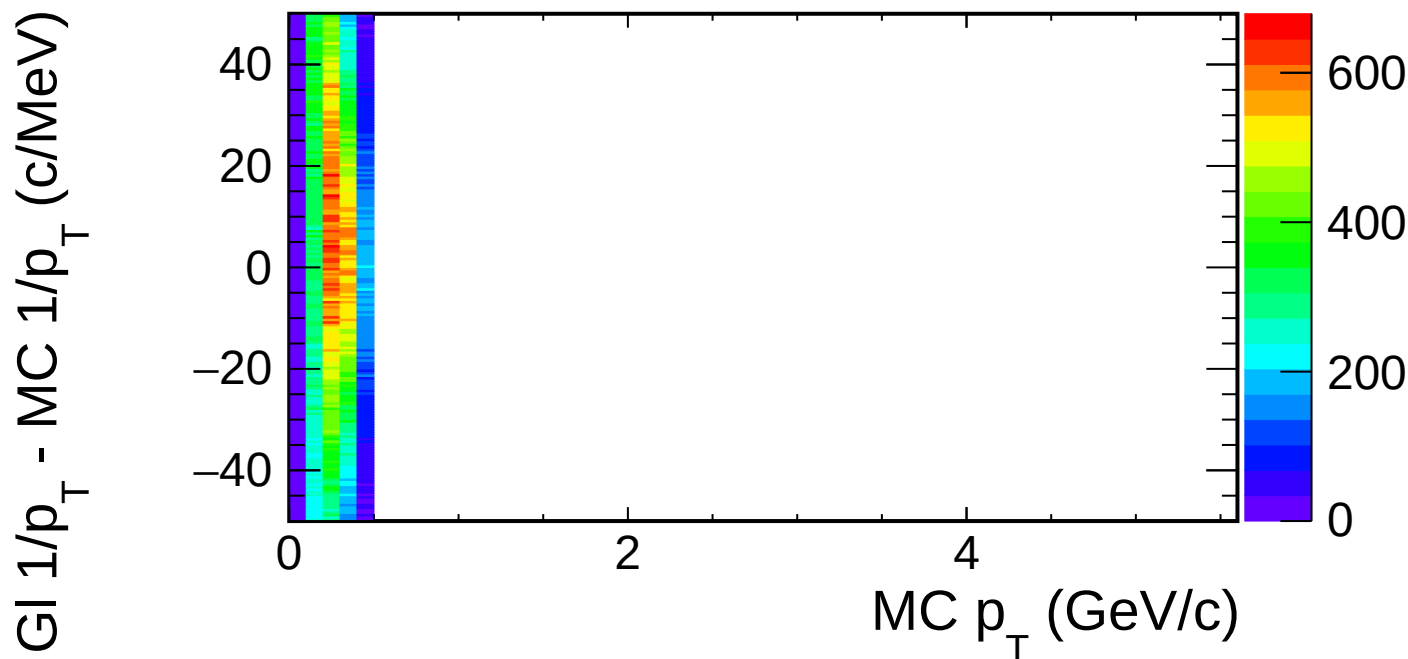
— pi-
(PRIMARY, $|n \sigma_{\text{pi-}}| < 2$ TPC)

Projection of p for each η bin

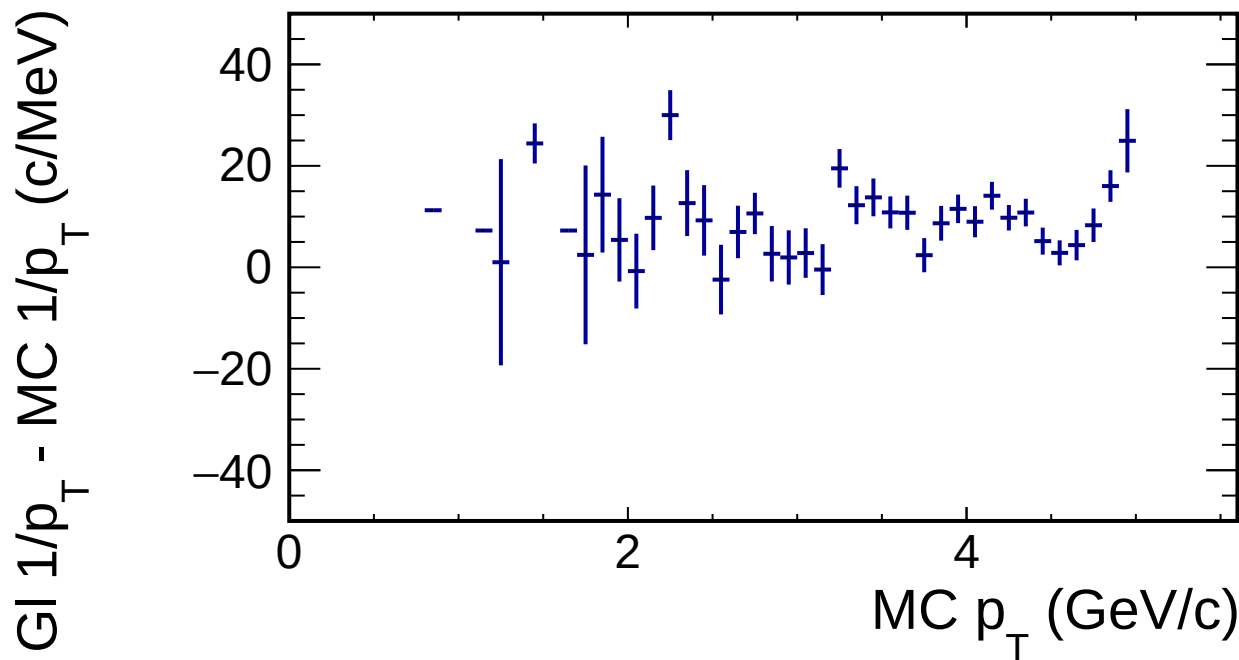
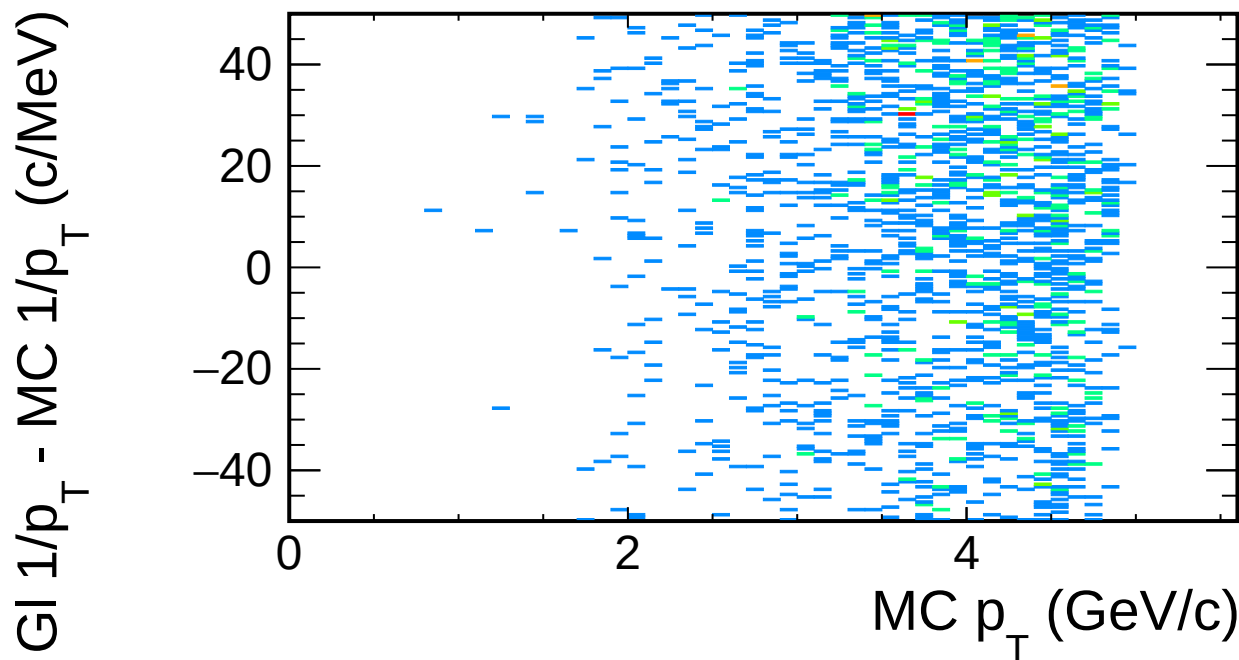
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

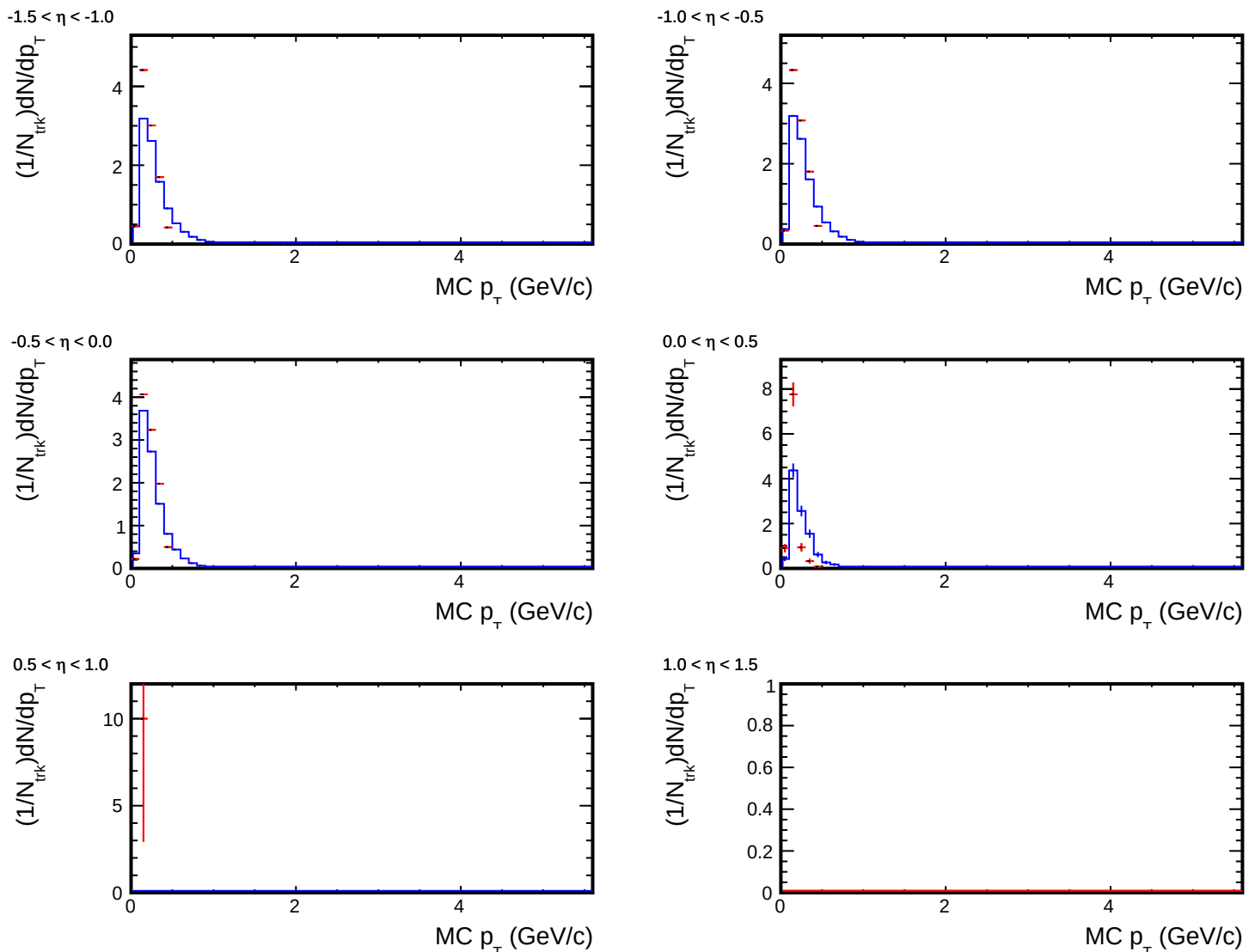
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

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



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

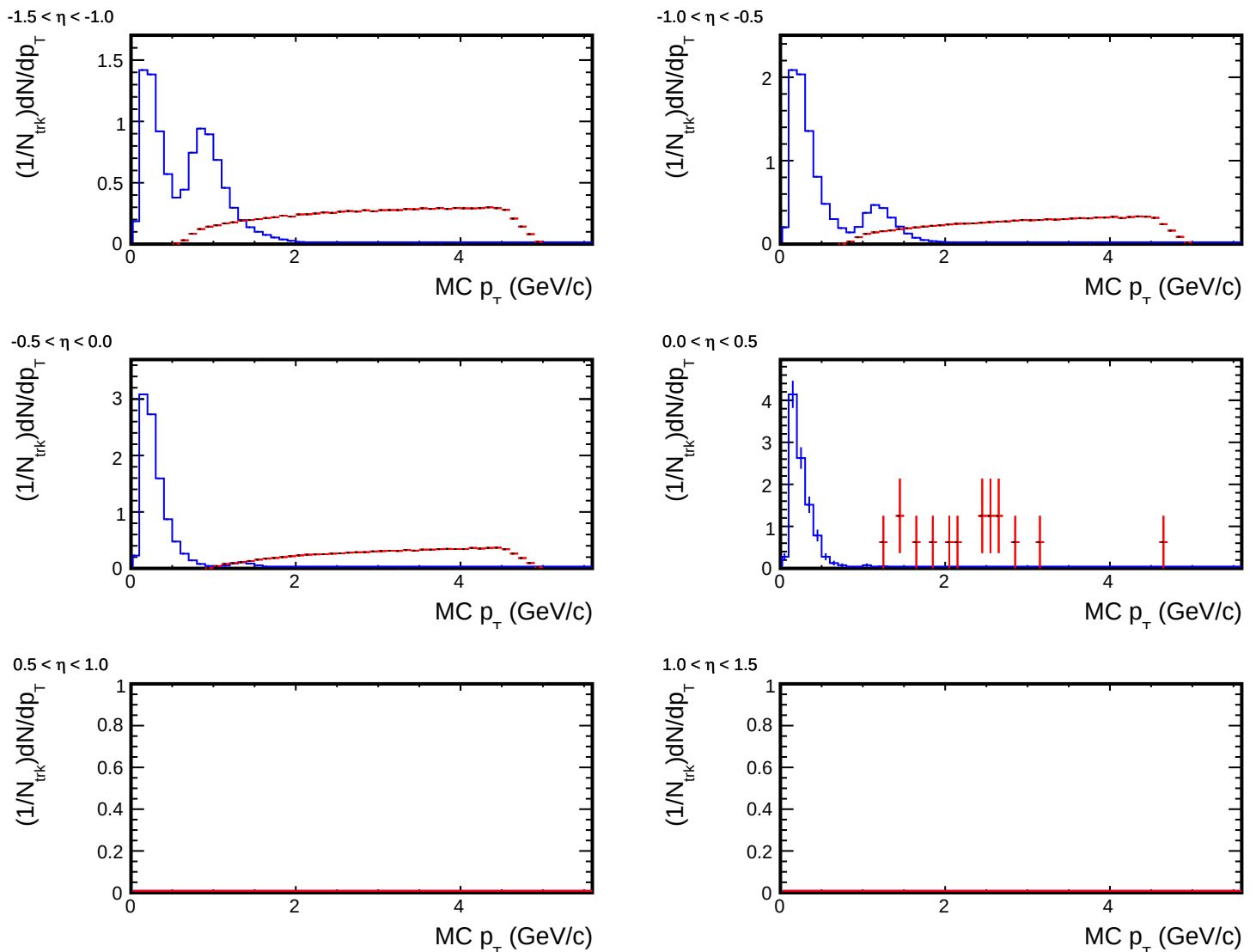


Projection of p_T for each η bin

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

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

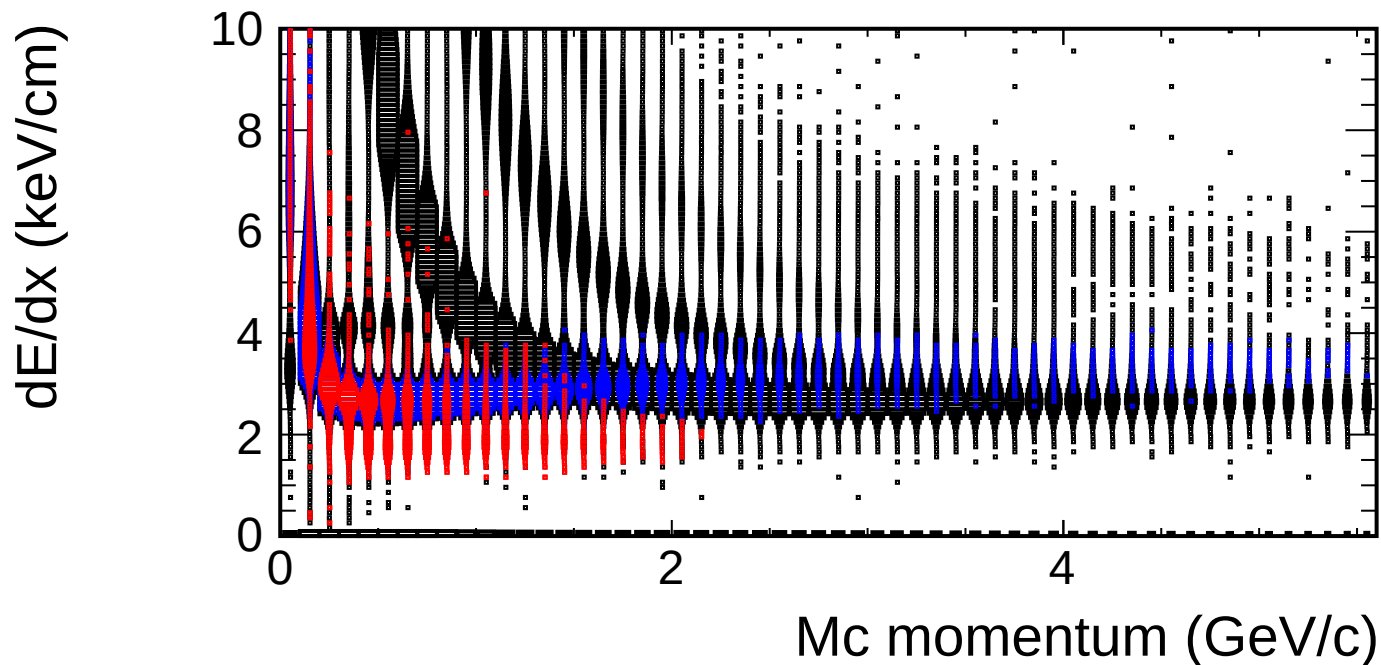
Projection of p_T for each η bin



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

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

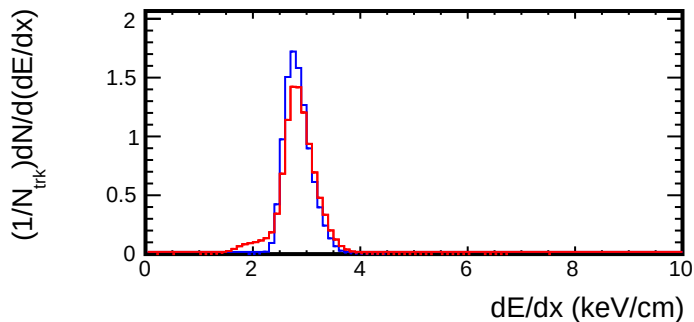
dE/dx vs momentum (Embedding:pi-, Real:pi-)



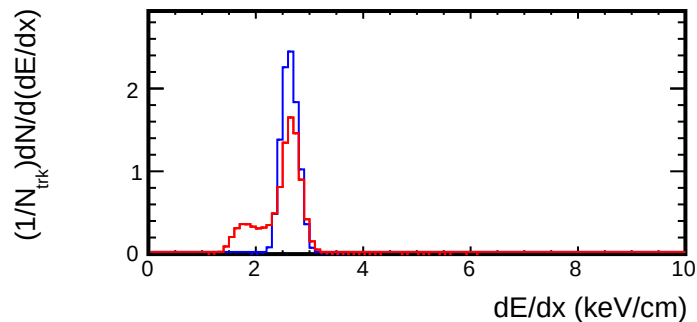
- Daughter π^- (from H4Lambda) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

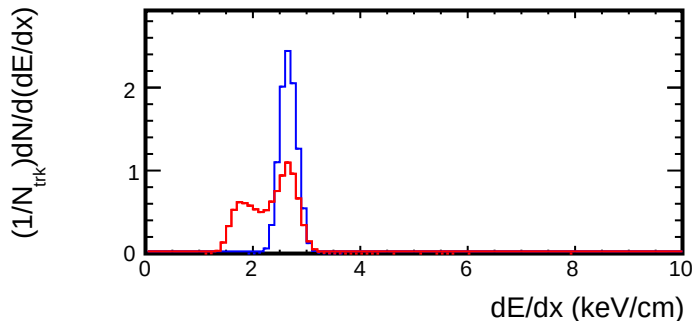
< Mc p < 0.4 GeV/c



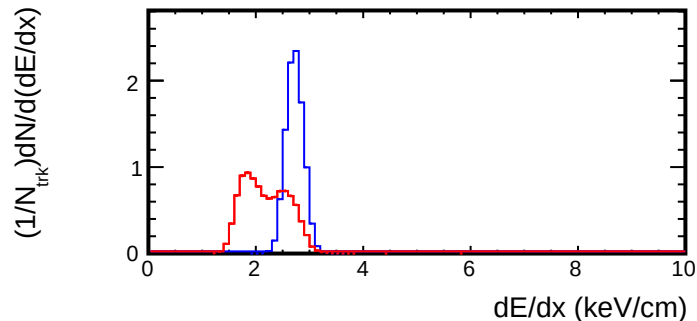
< Mc p < 0.6 GeV/c



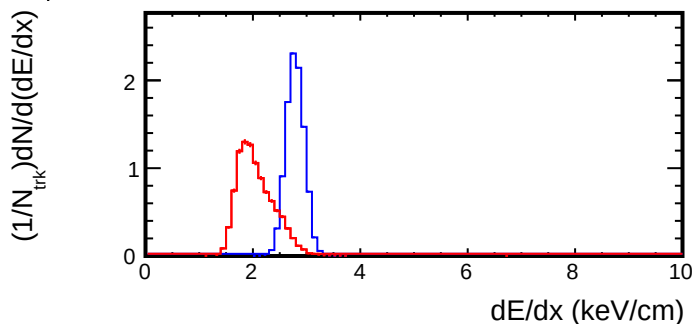
< Mc p < 0.8 GeV/c



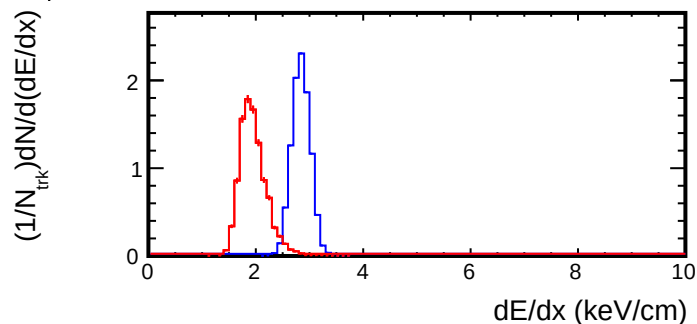
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

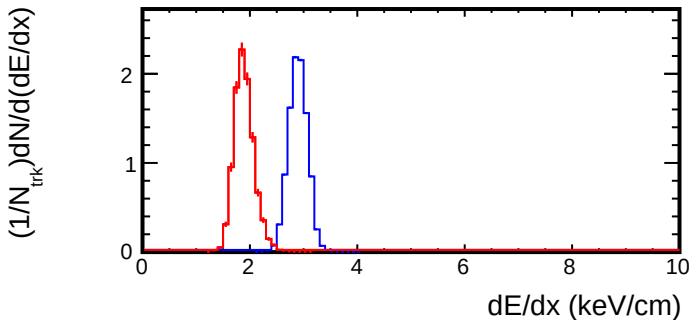


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

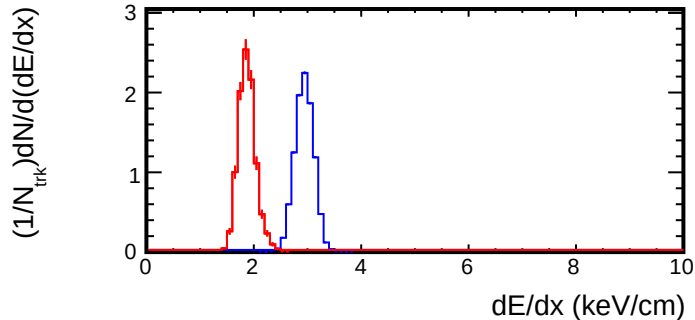
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

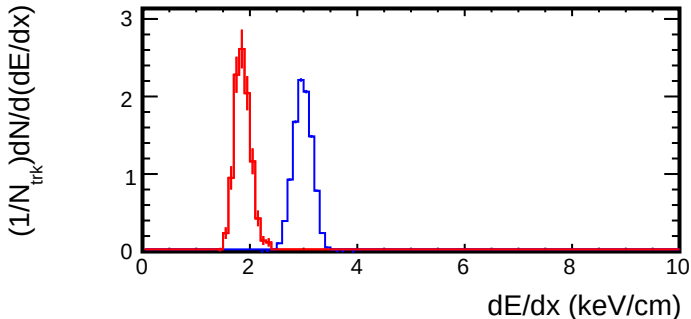
< Mc p < 1.6 GeV/c



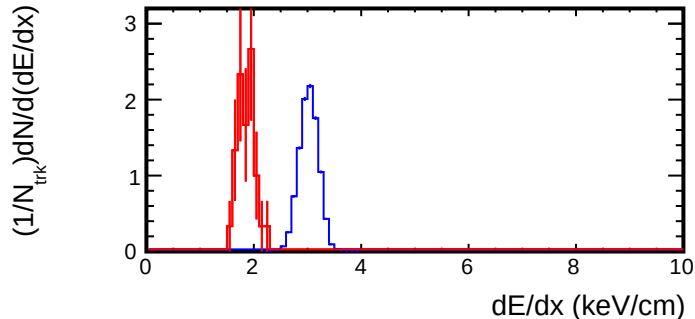
< Mc p < 1.8 GeV/c



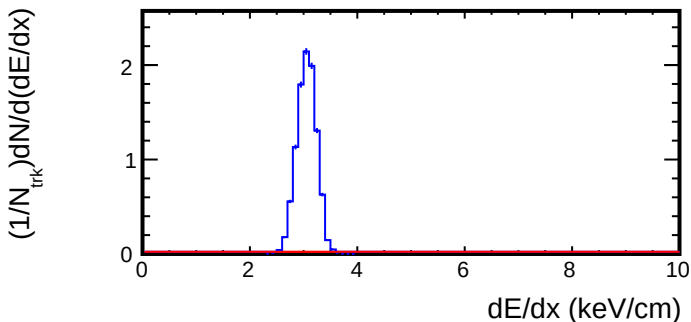
< Mc p < 2.0 GeV/c



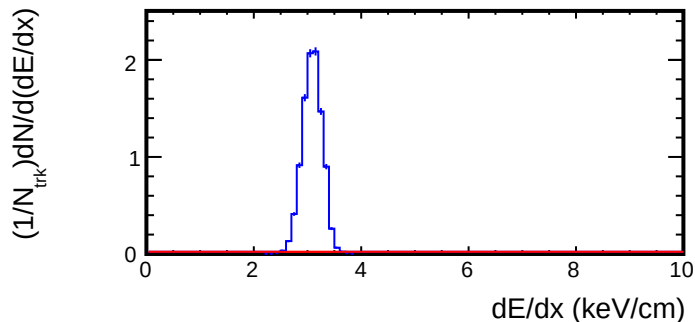
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

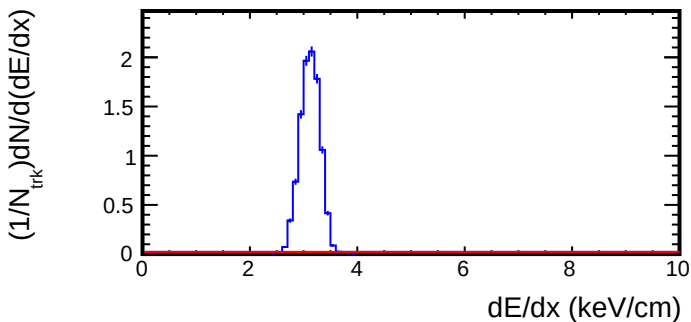


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

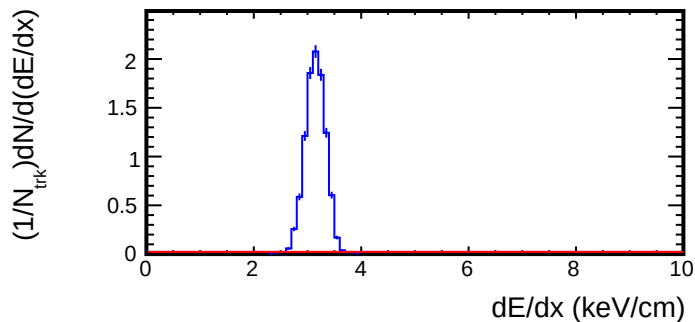
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

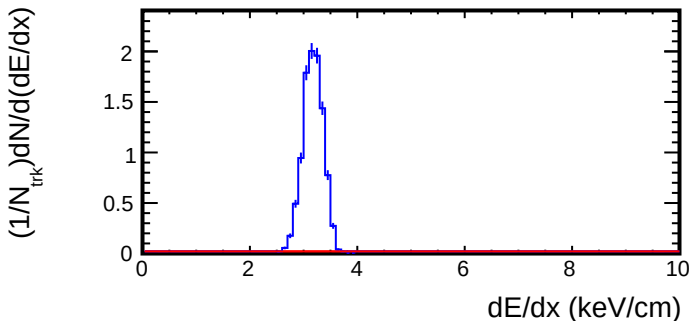
< Mc p < 2.8 GeV/c



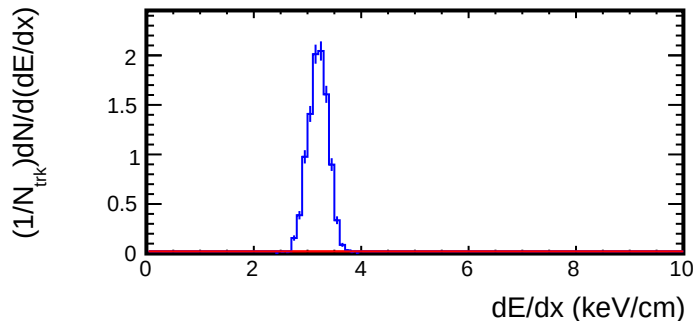
< Mc p < 3.0 GeV/c



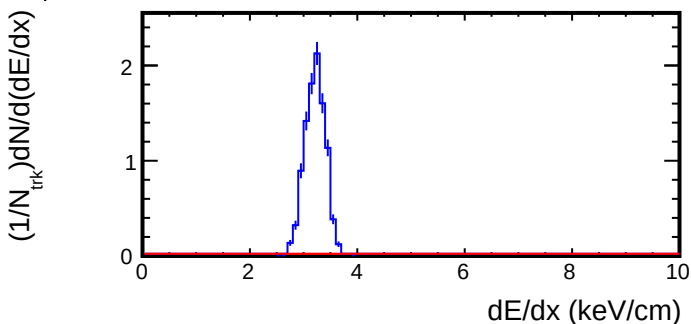
< Mc p < 3.2 GeV/c



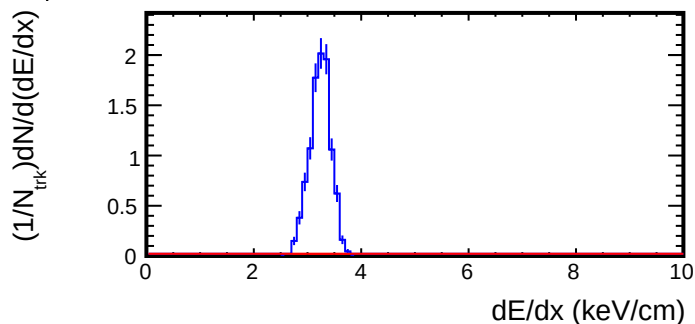
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

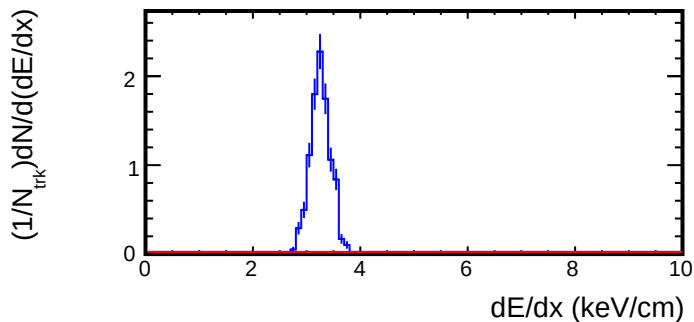


— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

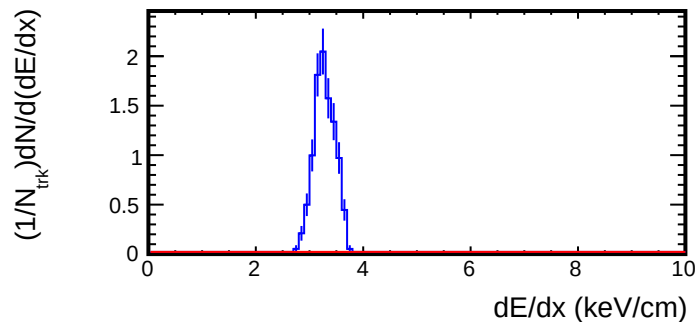
— pi⁻
(PRIMARY, $|n\sigma_{\text{pi}^-}| < 2$ TPC)

Projection of dE/dx for each p bin

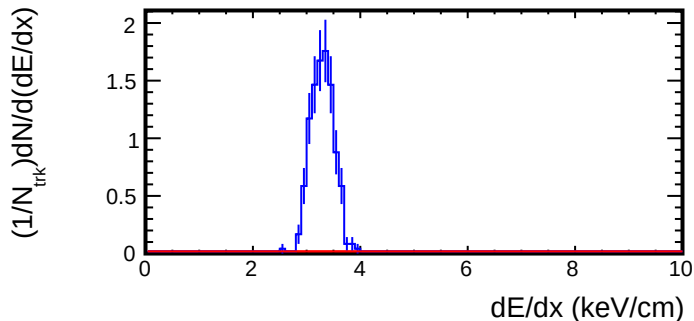
< Mc p < 4.0 GeV/c



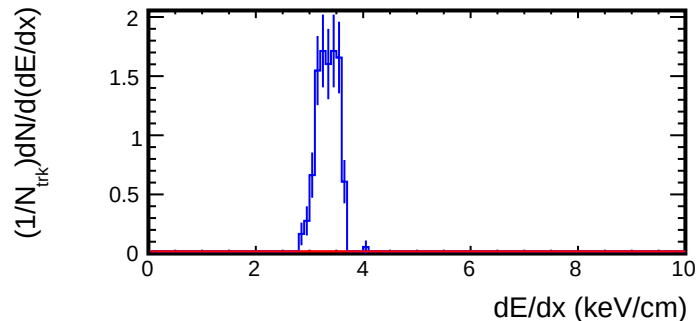
< Mc p < 4.2 GeV/c



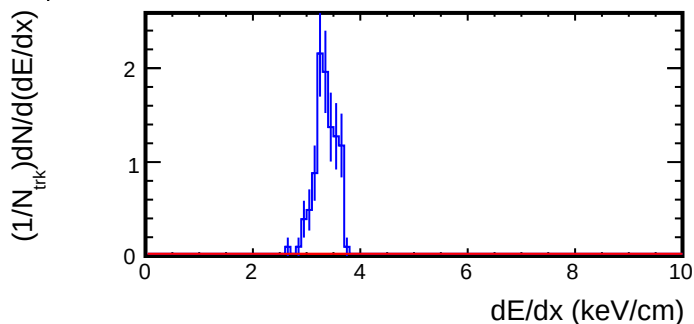
< Mc p < 4.4 GeV/c



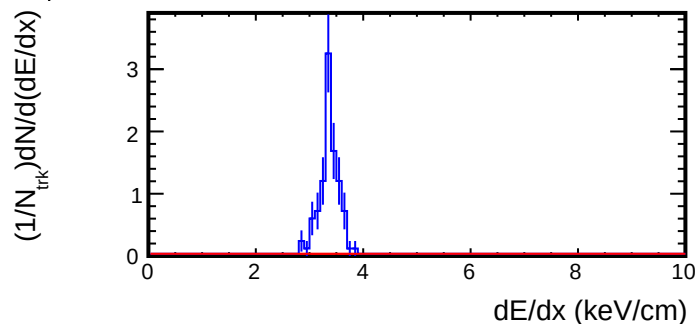
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c

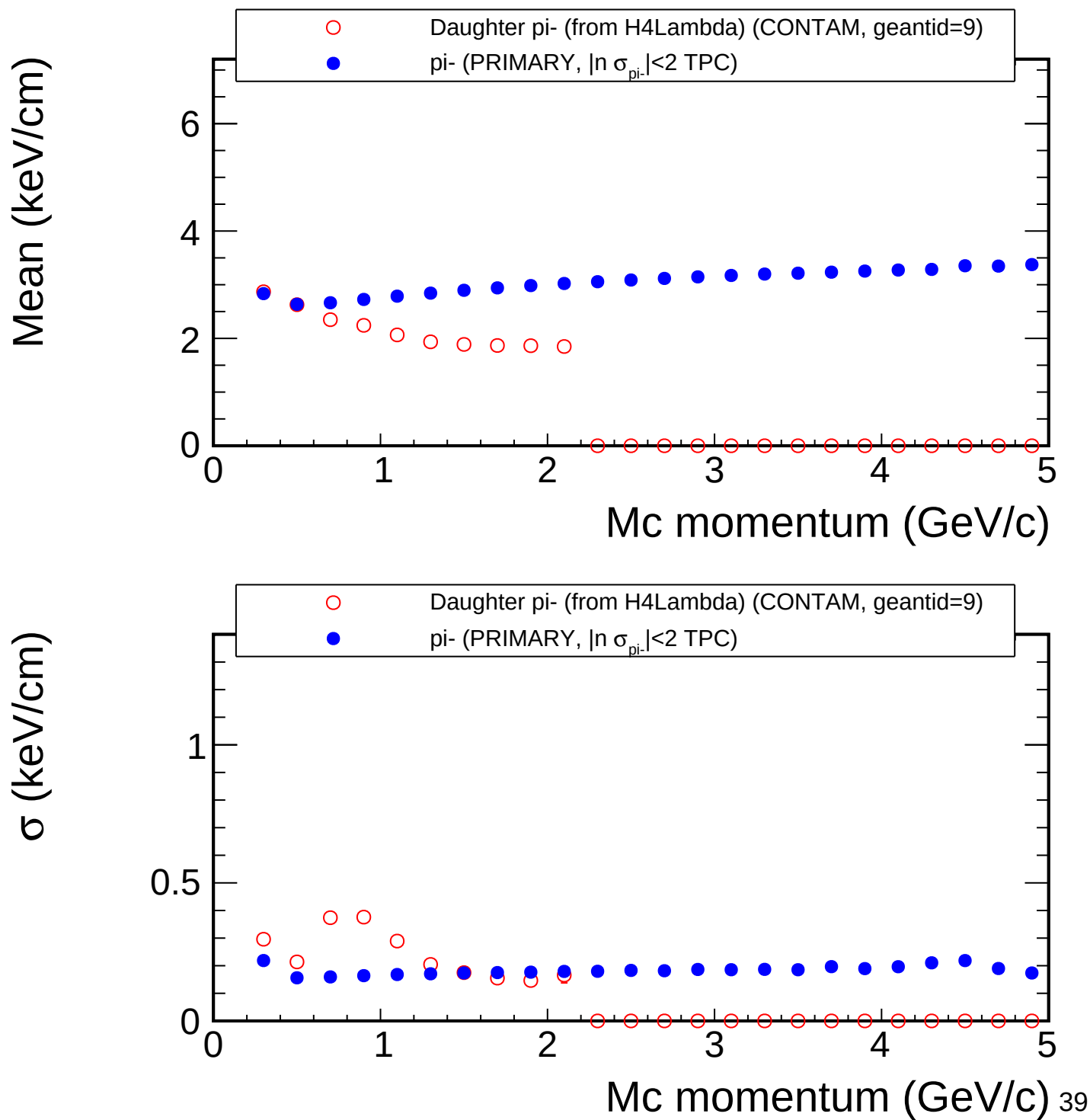


< Mc p < 5.0 GeV/c

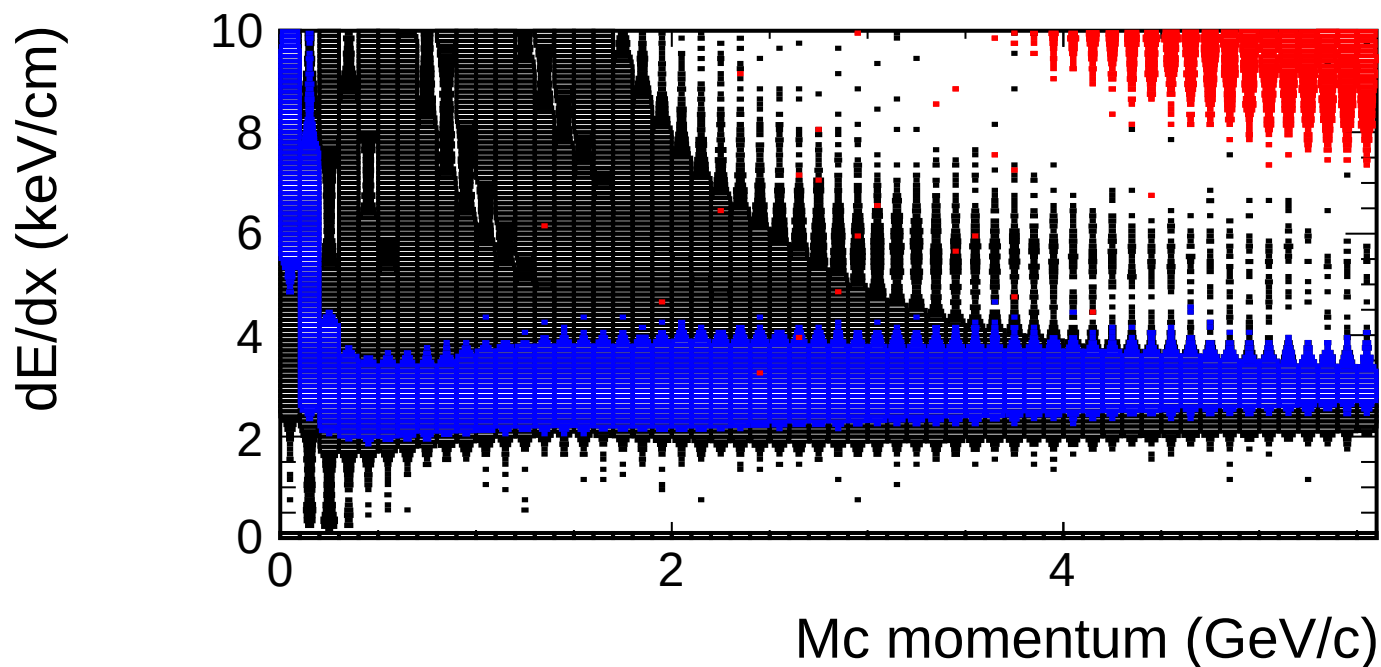


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Mean/ σ of dE/dx vs momentum

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



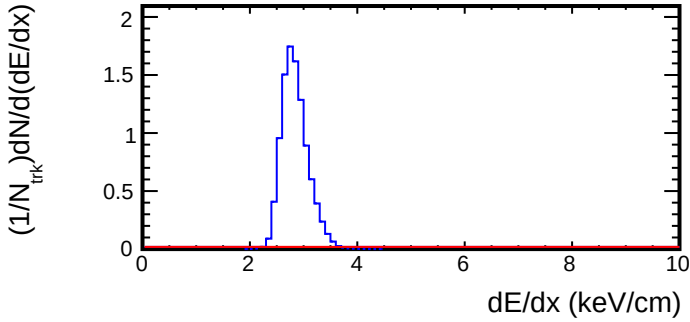
— Daughter alpha (from H4Lambda) (CONTAM, geantid=47)

— Real data

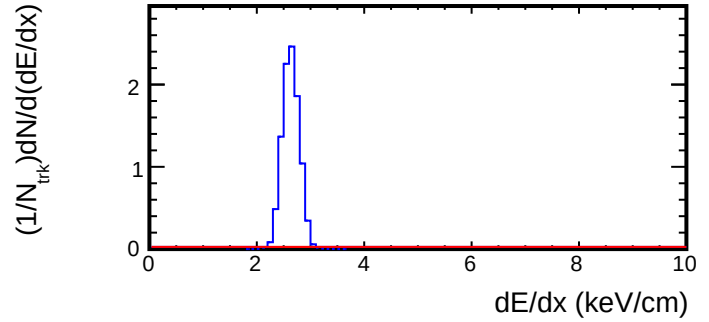
— Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

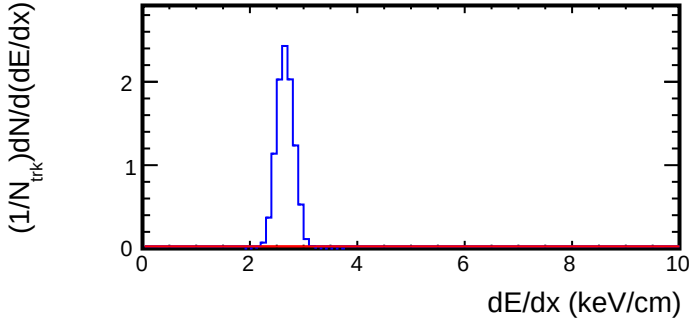
< Mc p < 0.4 GeV/c



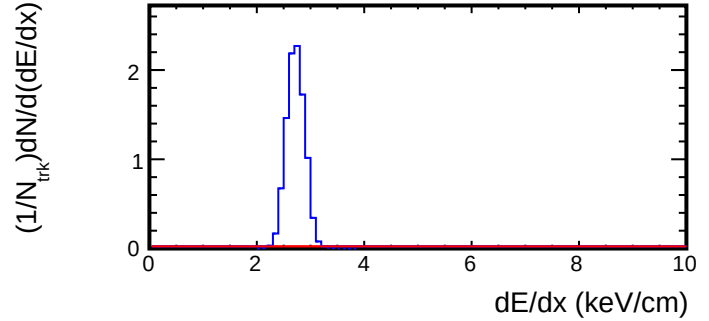
< Mc p < 0.6 GeV/c



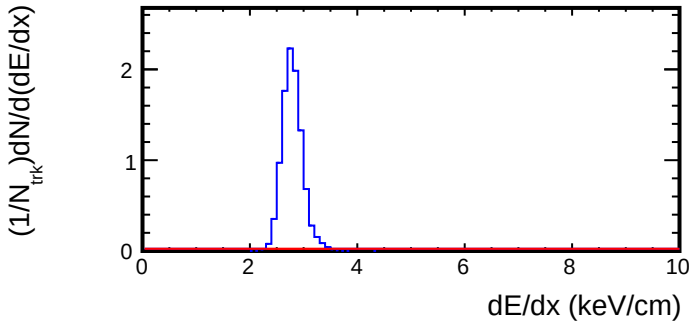
< Mc p < 0.8 GeV/c



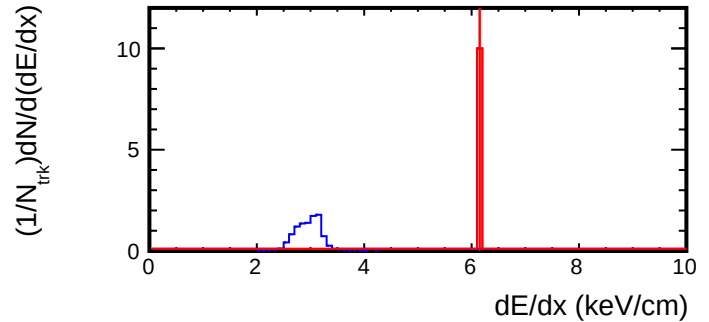
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



< Mc p < 1.4 GeV/c

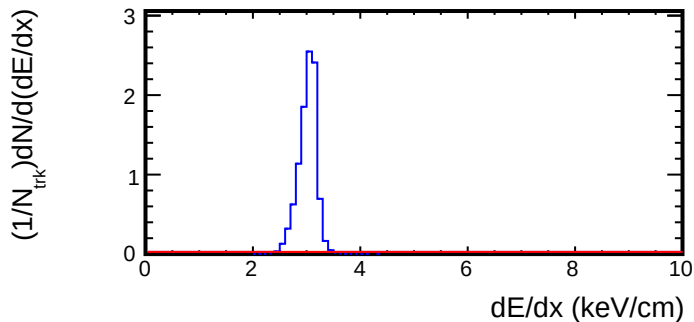


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

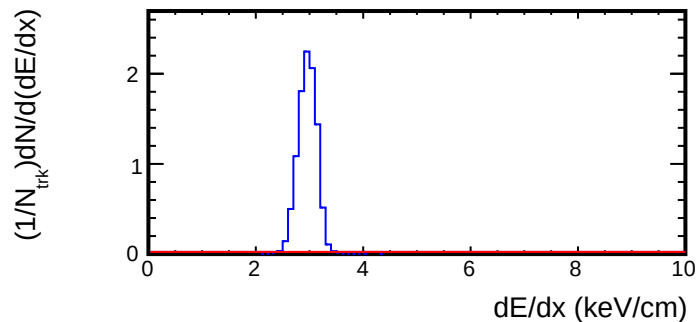
— pi+
(PRIMARY, $|n\sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

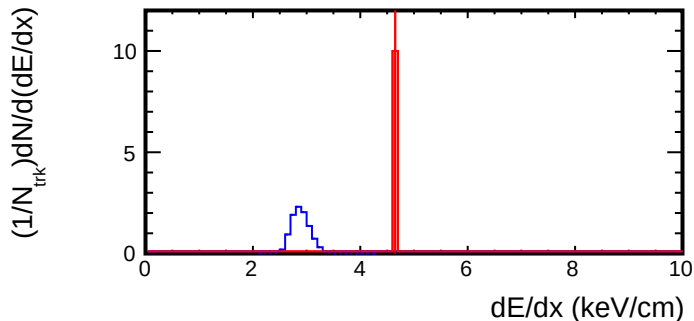
< Mc p < 1.6 GeV/c



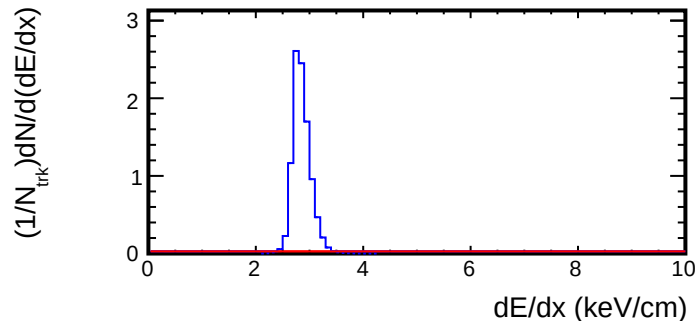
< Mc p < 1.8 GeV/c



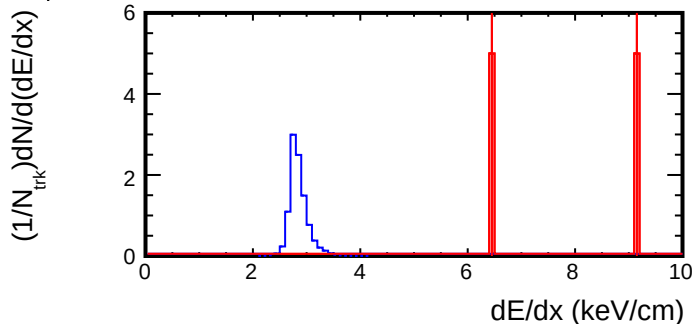
< Mc p < 2.0 GeV/c



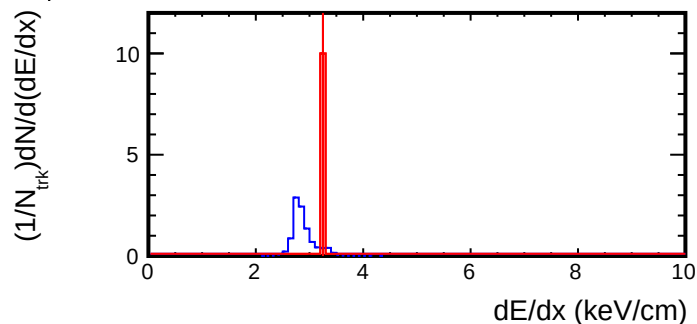
< Mc p < 2.2 GeV/c



< Mc p < 2.4 GeV/c



< Mc p < 2.6 GeV/c

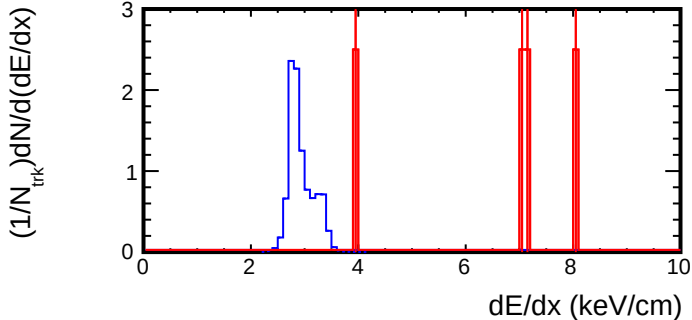


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

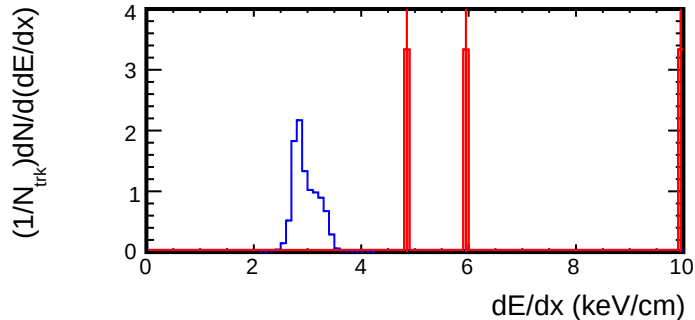
— pi+
(PRIMARY, $|n \sigma_{\text{pi}+}| < 2$ TPC)

Projection of dE/dx for each p bin

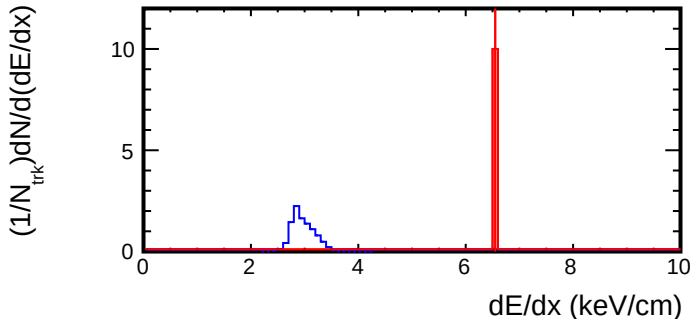
< Mc p < 2.8 GeV/c



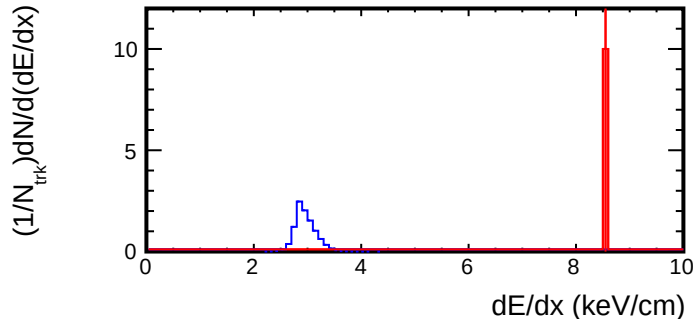
< Mc p < 3.0 GeV/c



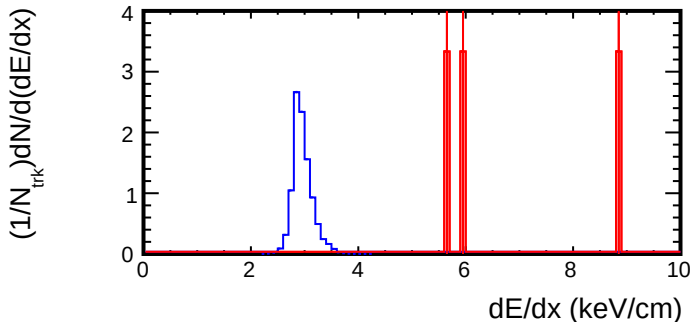
< Mc p < 3.2 GeV/c



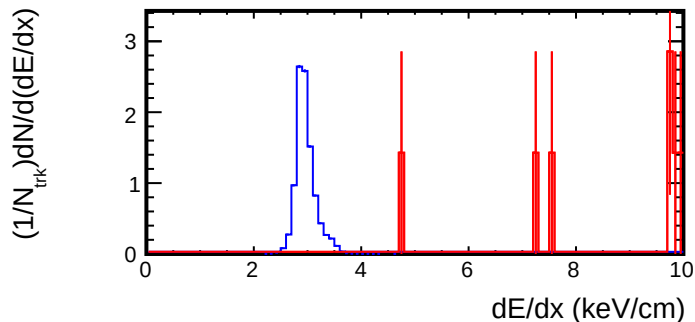
< Mc p < 3.4 GeV/c



< Mc p < 3.6 GeV/c



< Mc p < 3.8 GeV/c

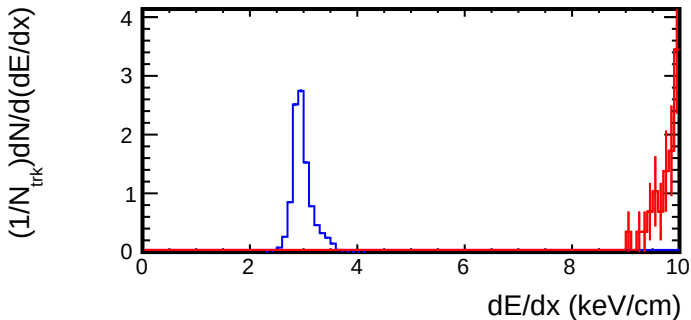


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

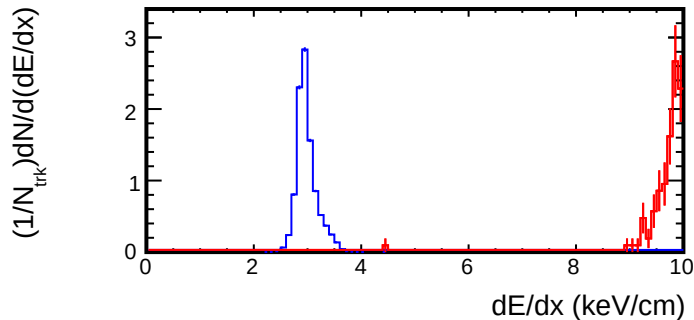
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

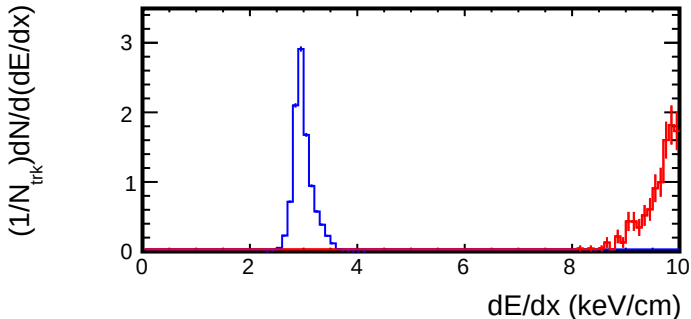
< Mc p < 4.0 GeV/c



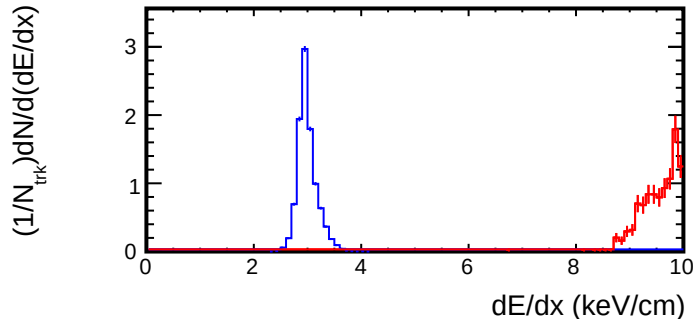
< Mc p < 4.2 GeV/c



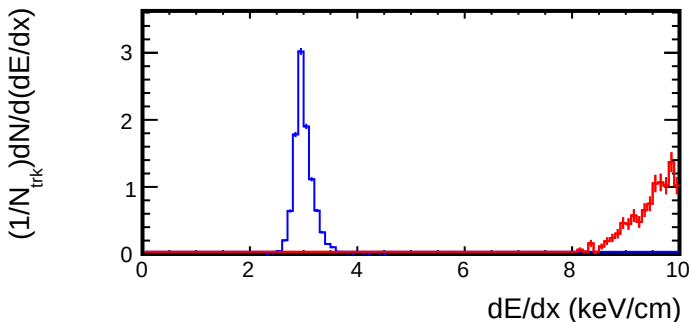
< Mc p < 4.4 GeV/c



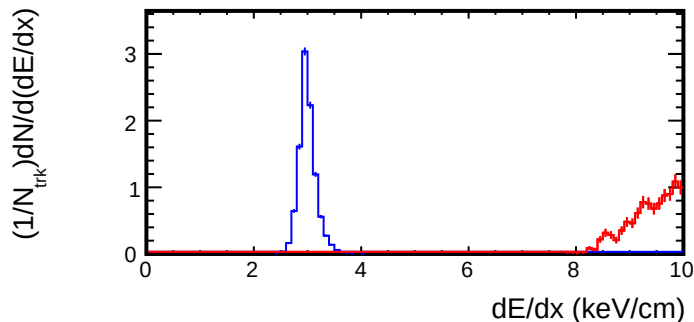
< Mc p < 4.6 GeV/c



< Mc p < 4.8 GeV/c



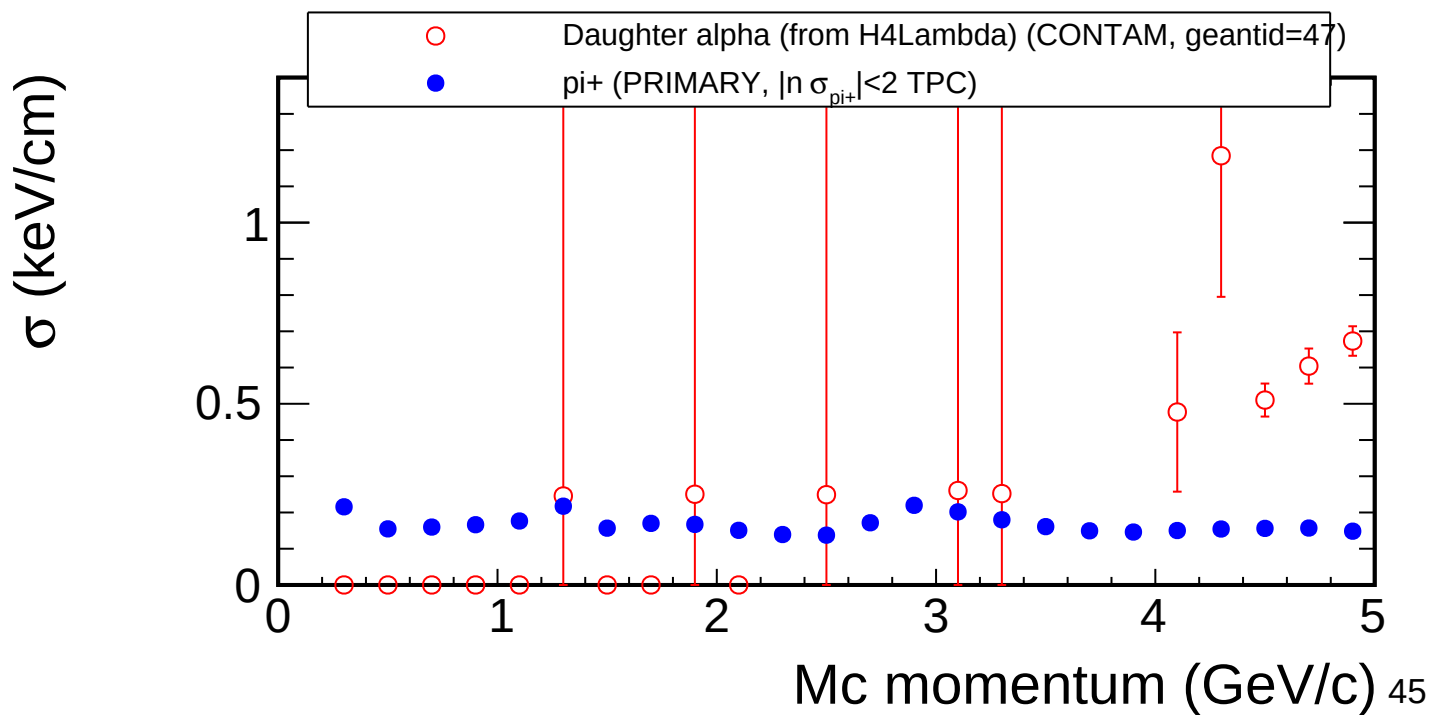
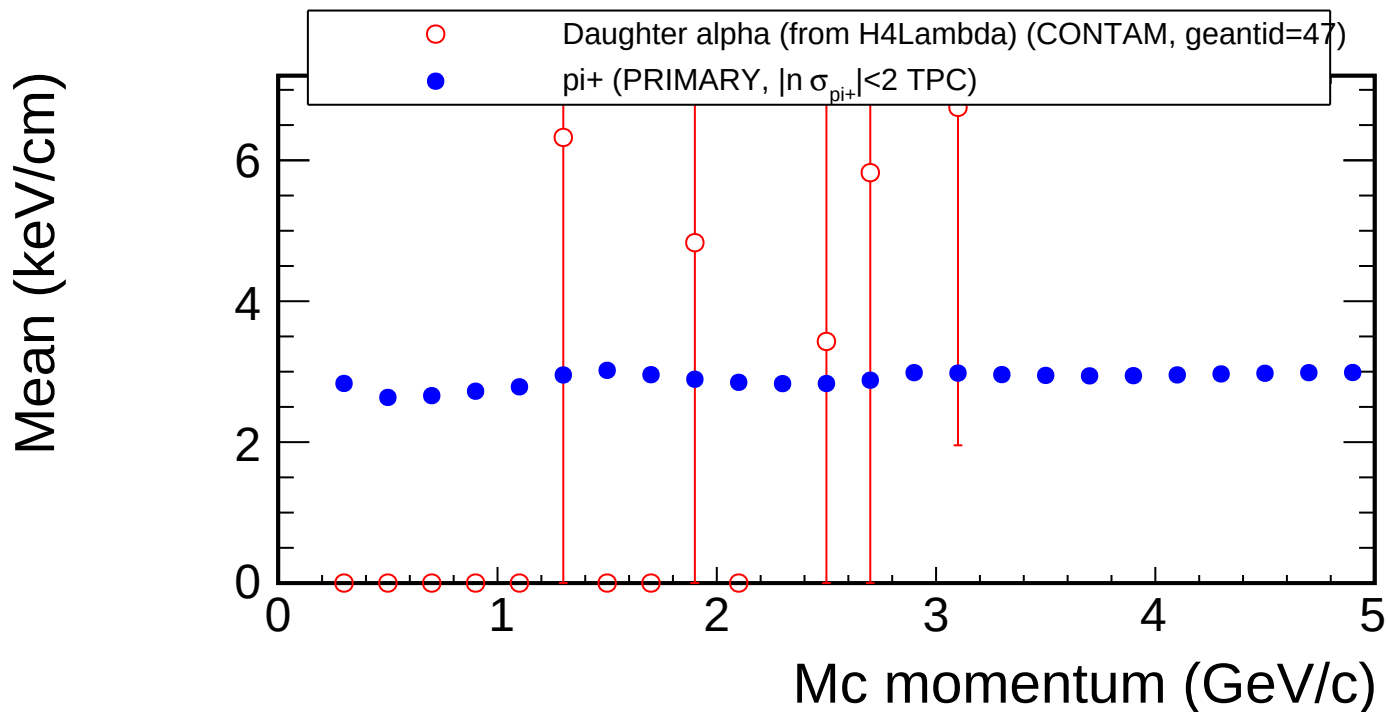
< Mc p < 5.0 GeV/c



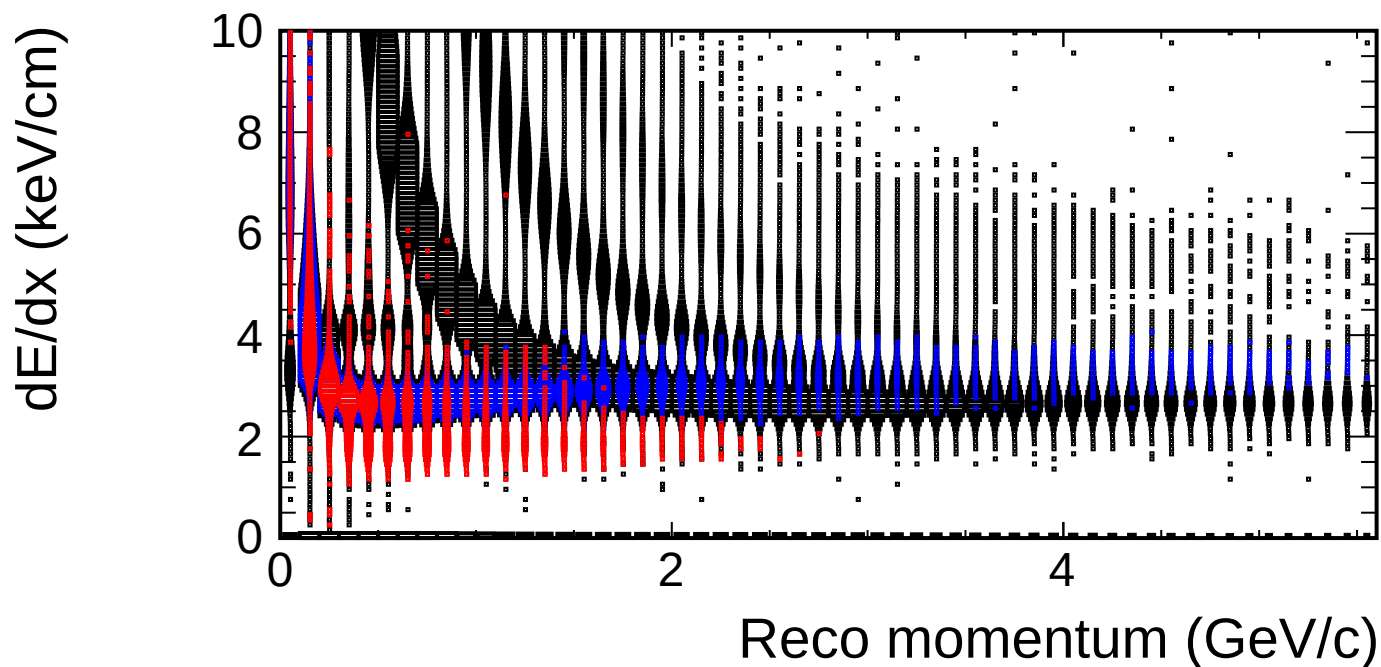
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Mean/ σ of dE/dx vs momentum



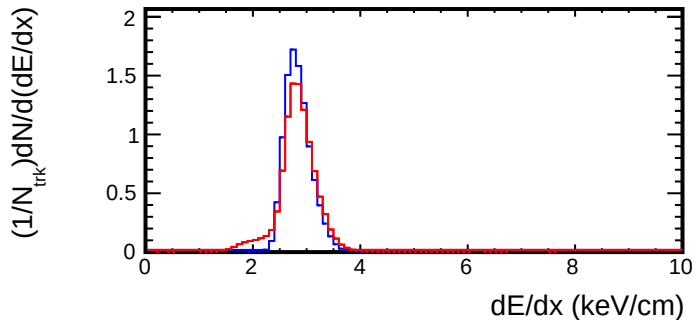
dE/dx vs momentum (Embedding:pi-, Real:pi-)



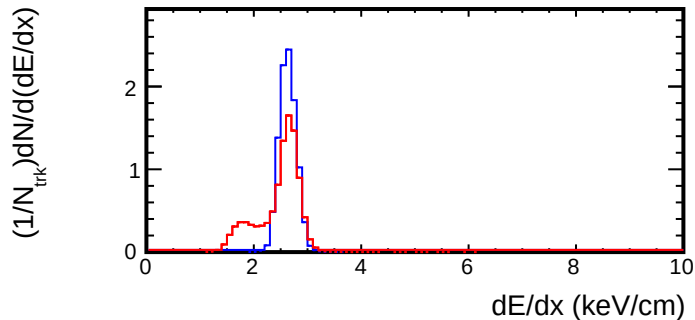
- Daughter pi- (from H4Lambda) (CONTAM, geantid=9)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

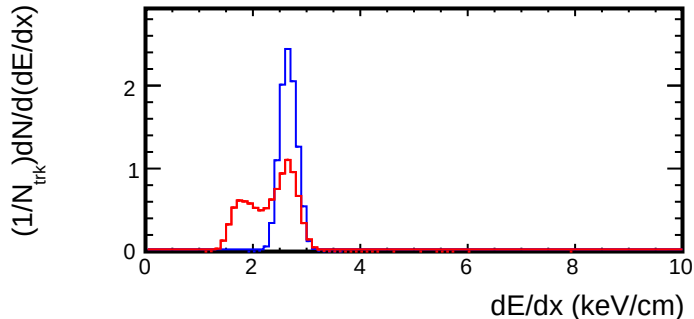
Reco p < 0.4 GeV/c



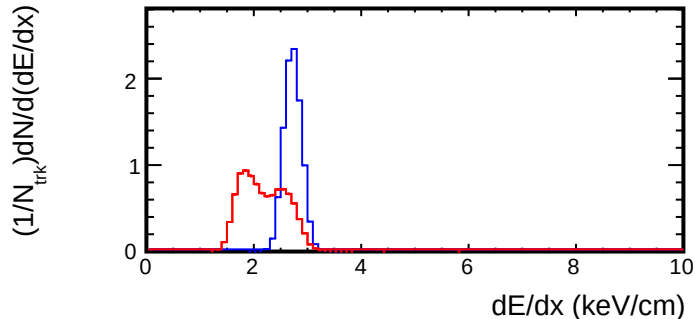
Reco p < 0.6 GeV/c



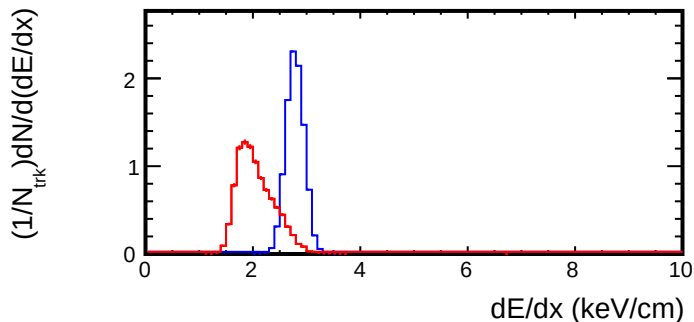
Reco p < 0.8 GeV/c



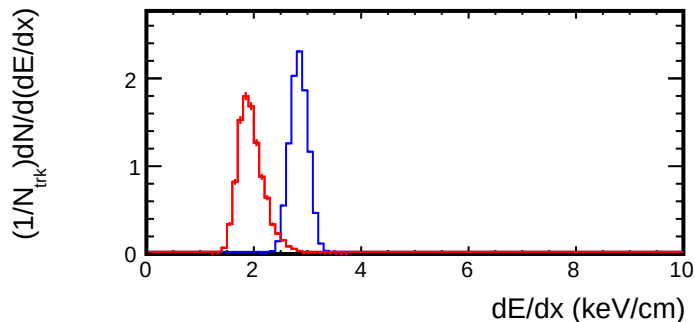
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



Reco p < 1.4 GeV/c

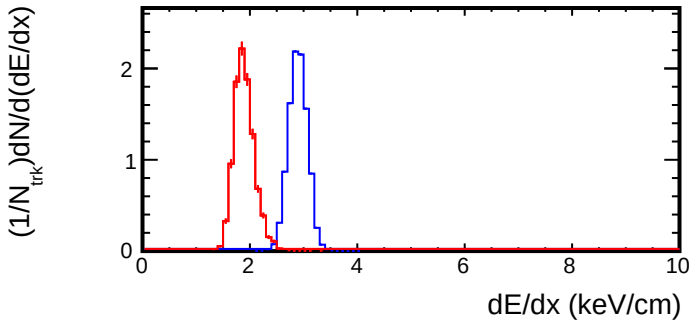


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

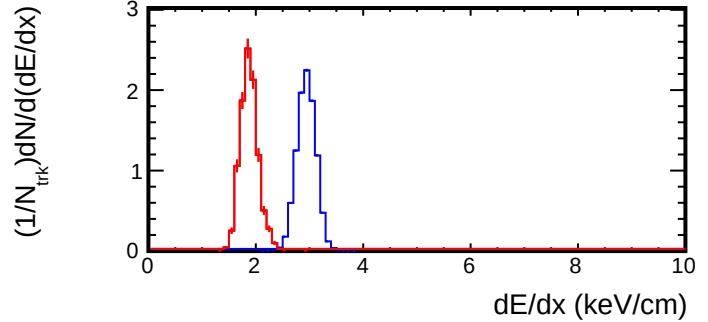
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

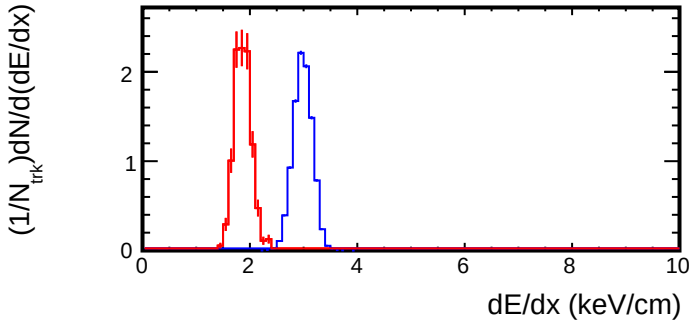
Reco p < 1.6 GeV/c



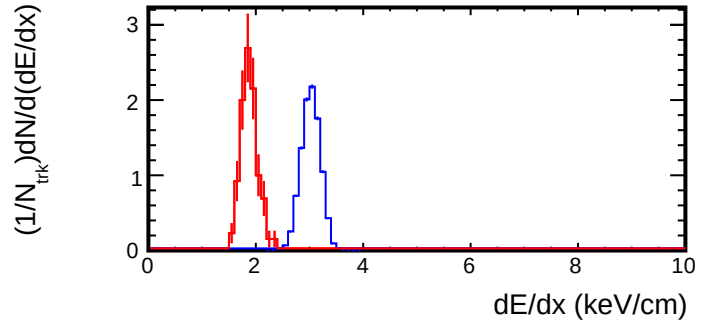
Reco p < 1.8 GeV/c



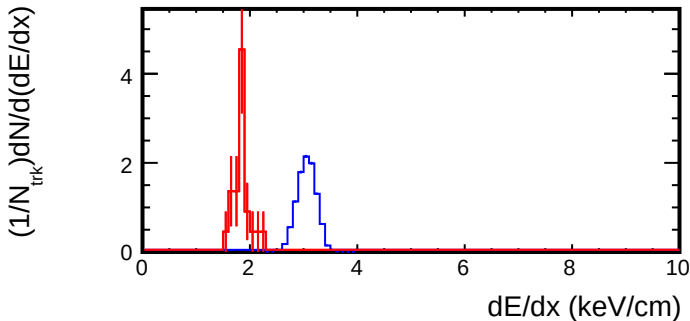
Reco p < 2.0 GeV/c



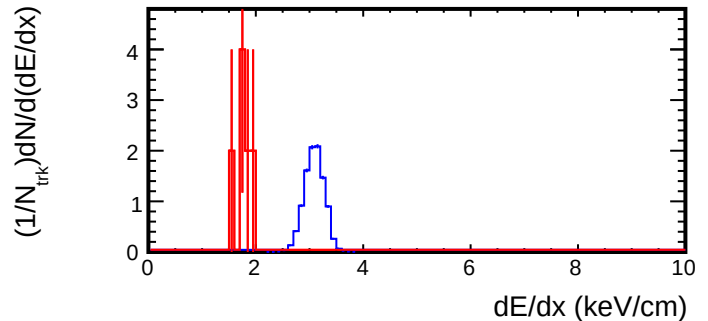
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



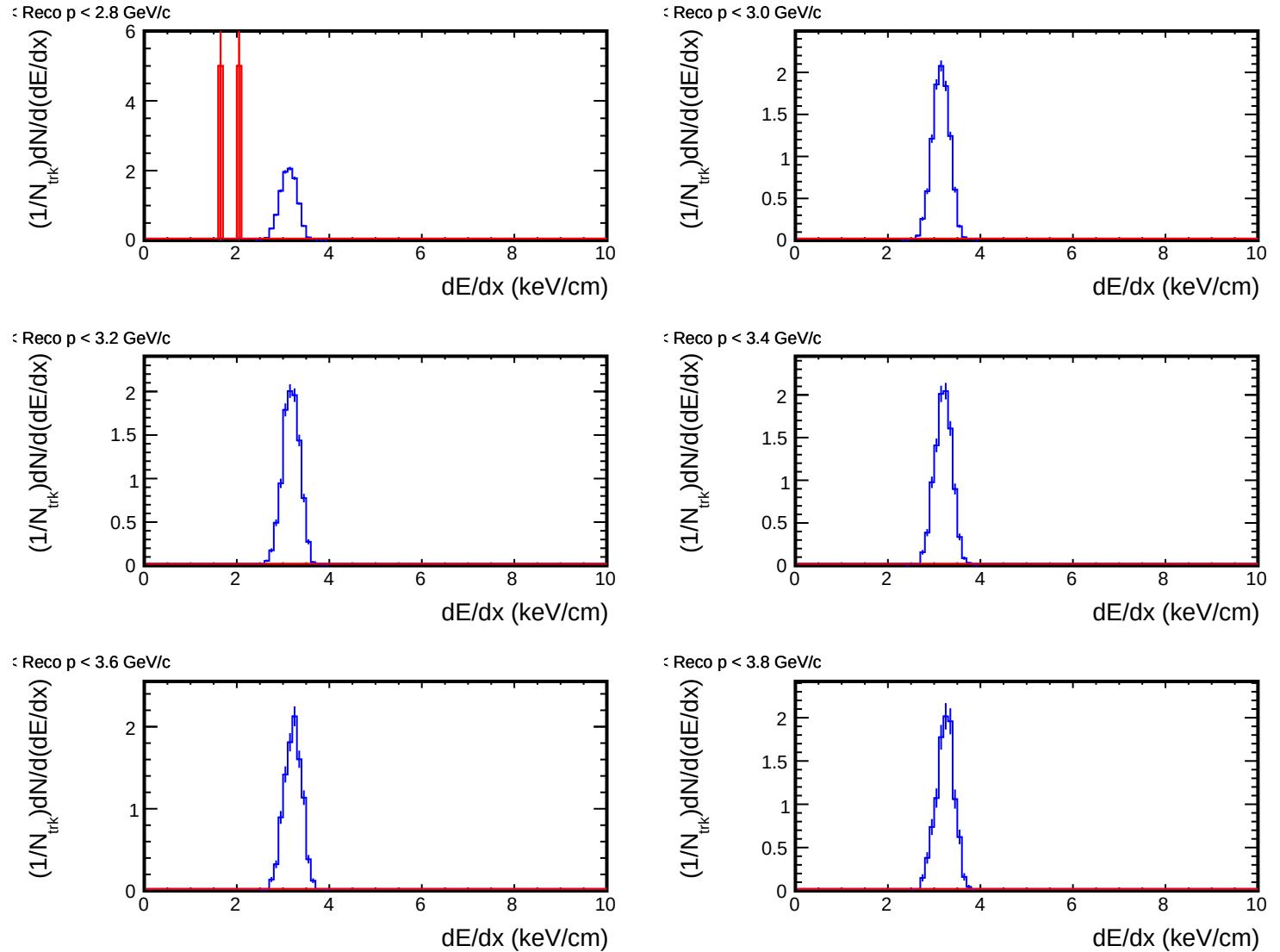
Reco p < 2.6 GeV/c



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

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

Projection of dE/dx for each p bin

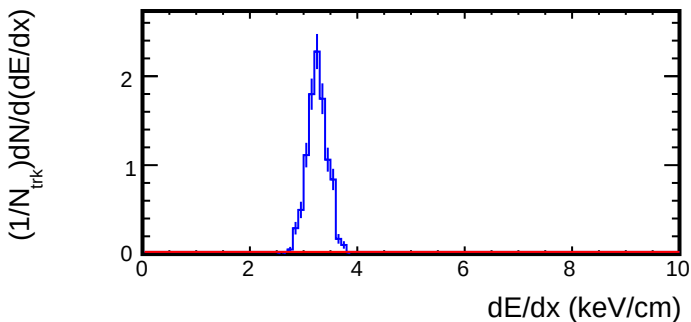


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

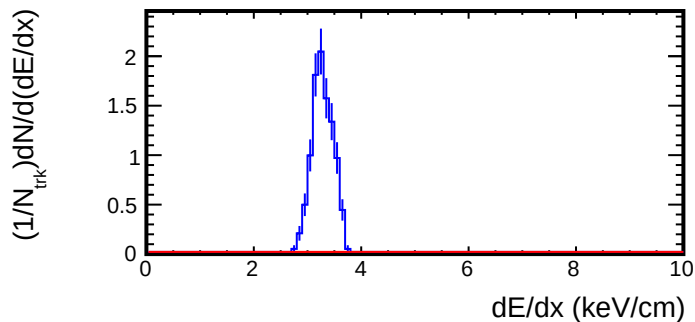
— pi-
(PRIMARY, $|n\sigma_{\text{pi-}}| < 2$ TPC)

Projection of dE/dx for each p bin

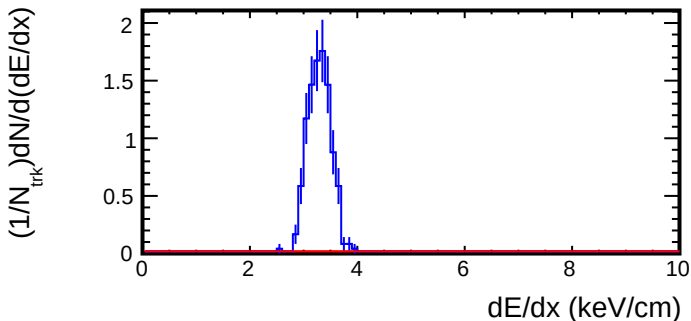
Reco p < 4.0 GeV/c



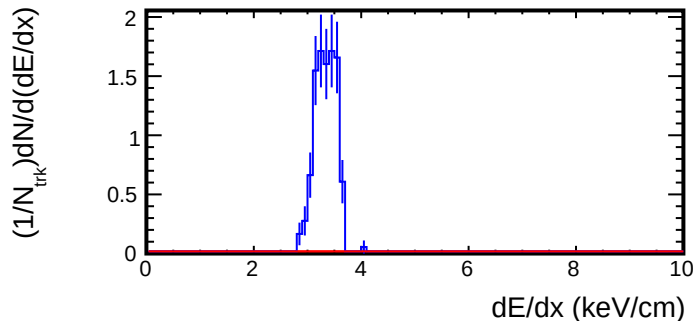
Reco p < 4.2 GeV/c



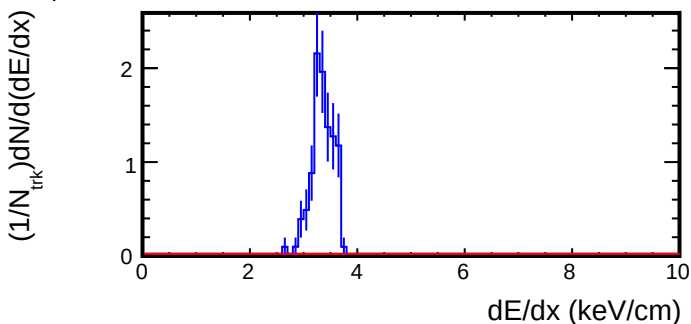
Reco p < 4.4 GeV/c



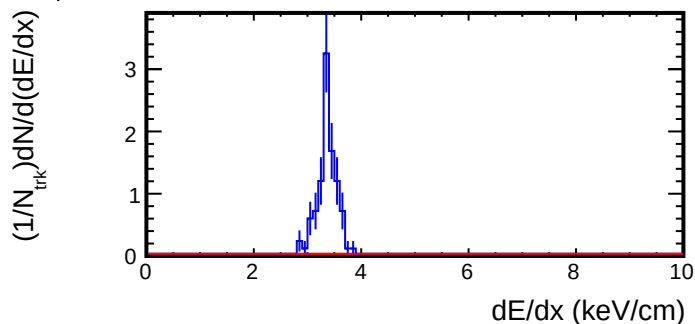
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c

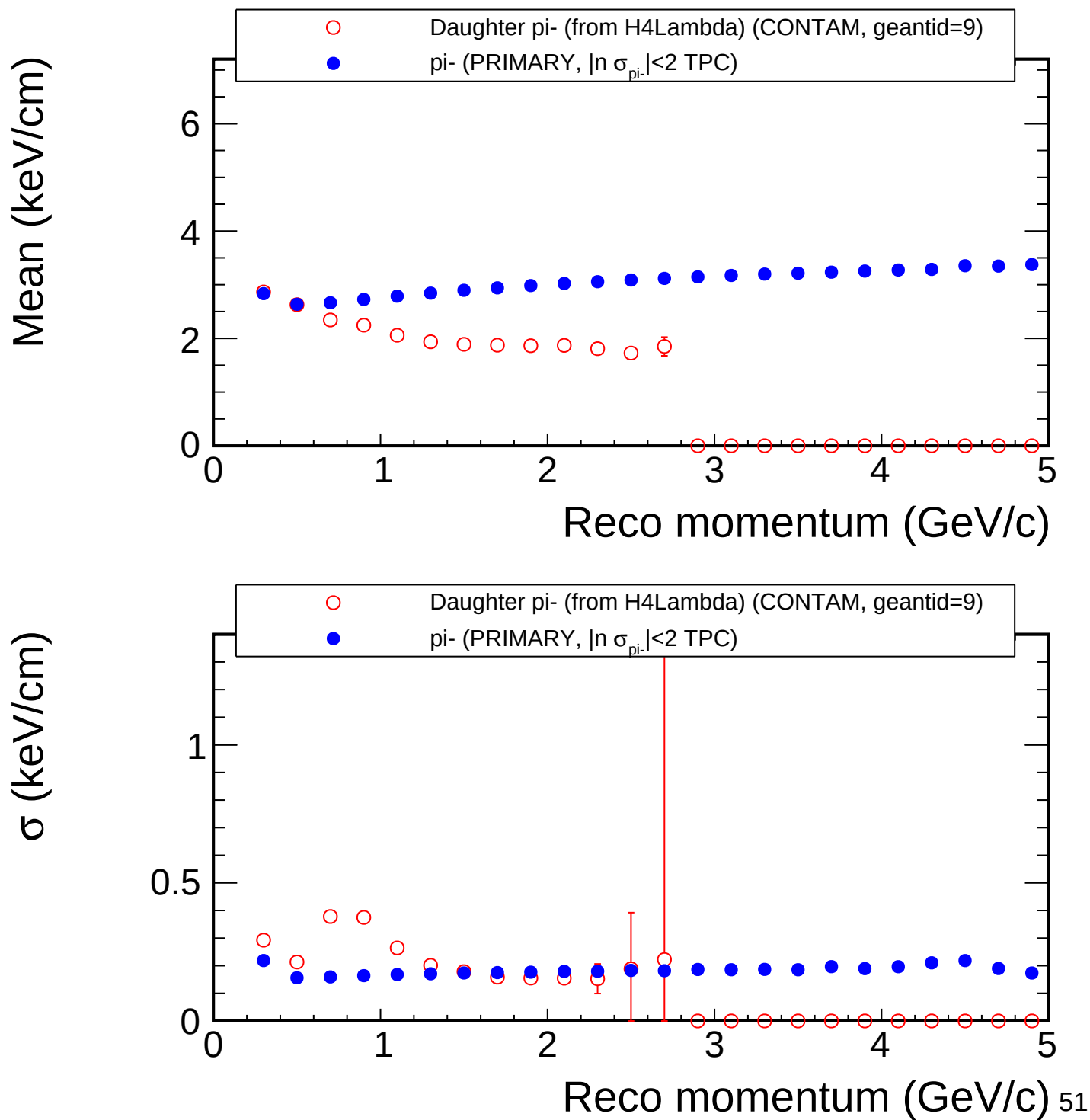


Reco p < 5.0 GeV/c

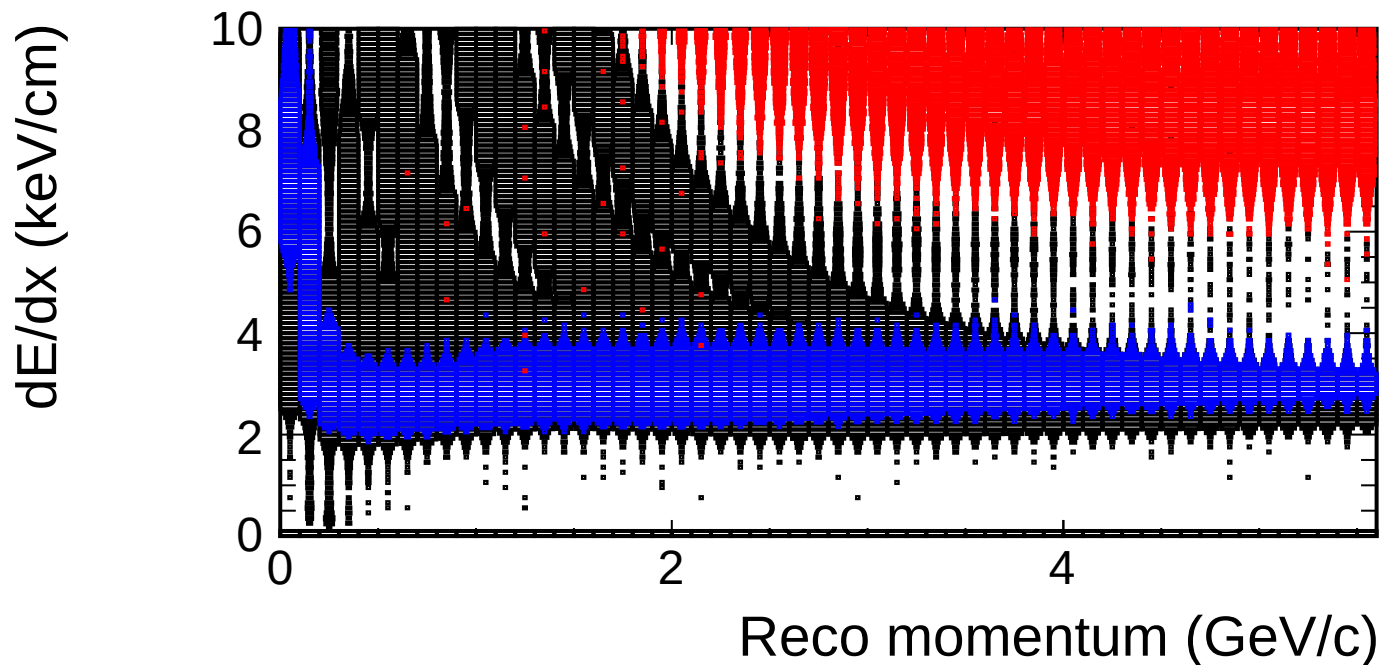


— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Mean/ σ of dE/dx vs momentum

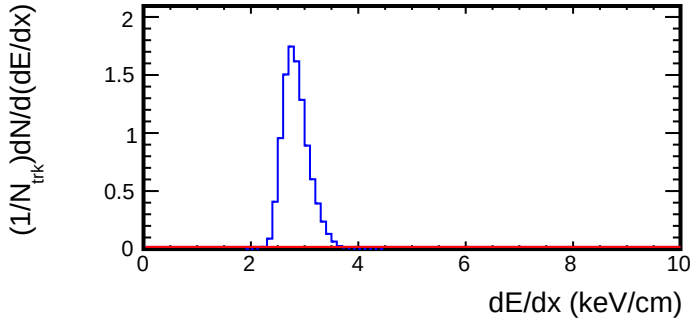
dE/dx vs momentum (Embedding:alpha, Real:alpha)



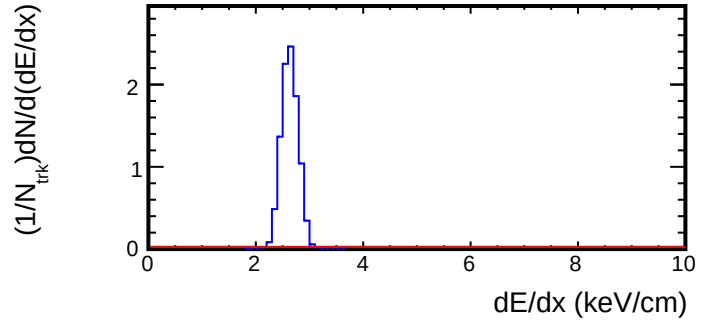
- Daughter alpha (from H4Lambda) (CONTAM, geantid=47)
- Real data
- Real data with PID cut ($\sigma < 2$) TPC

Projection of dE/dx for each p bin

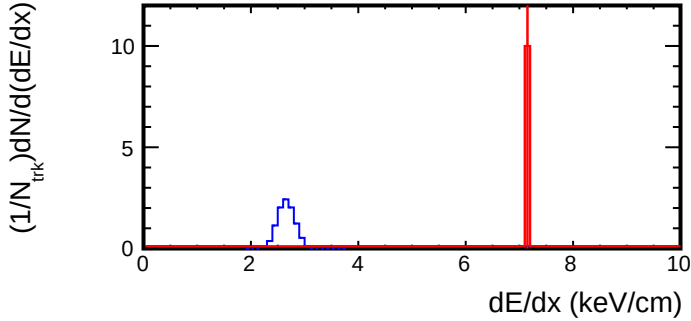
Reco p < 0.4 GeV/c



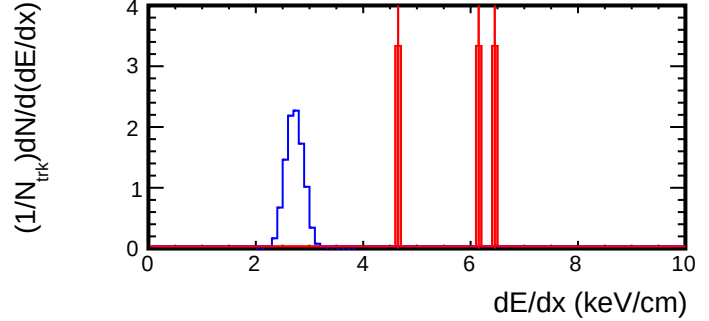
Reco p < 0.6 GeV/c



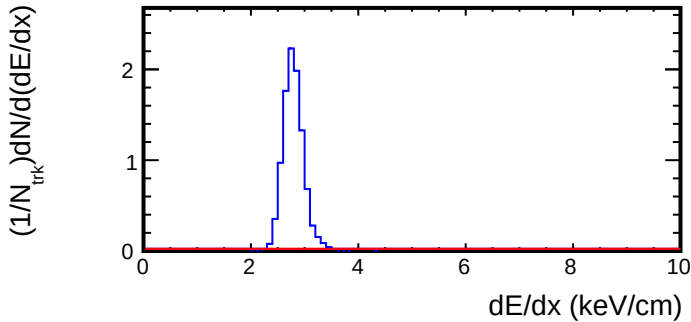
Reco p < 0.8 GeV/c



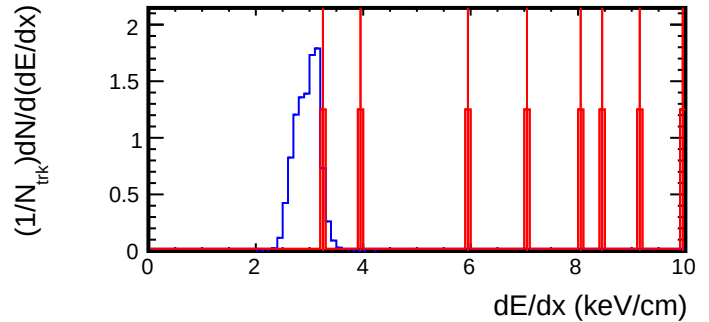
Reco p < 1.0 GeV/c



Reco p < 1.2 GeV/c



Reco p < 1.4 GeV/c

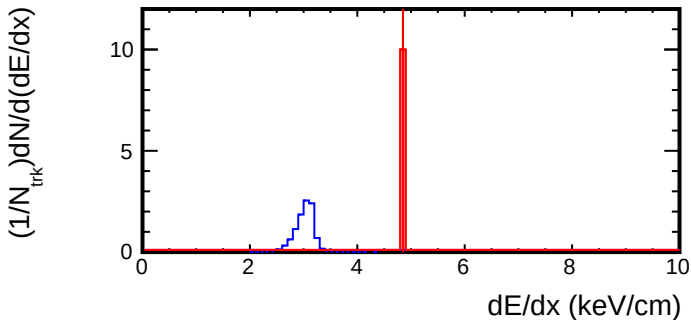


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

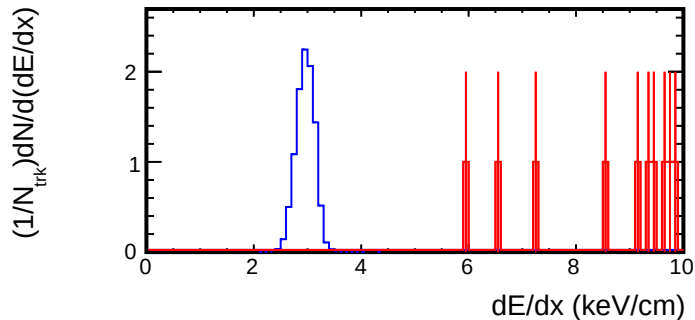
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

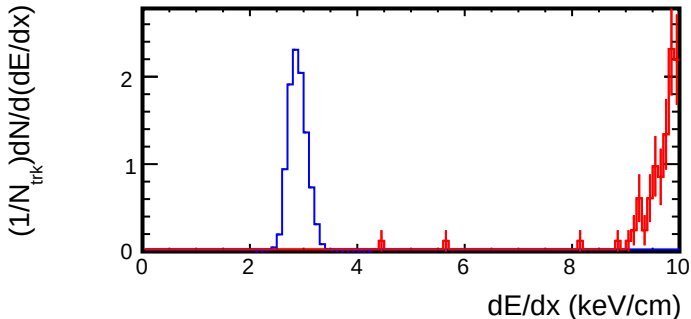
Reco p < 1.6 GeV/c



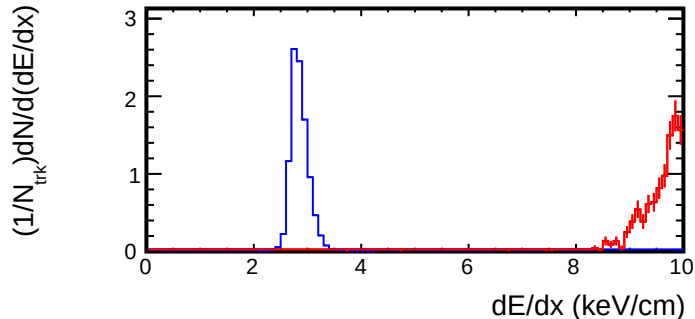
Reco p < 1.8 GeV/c



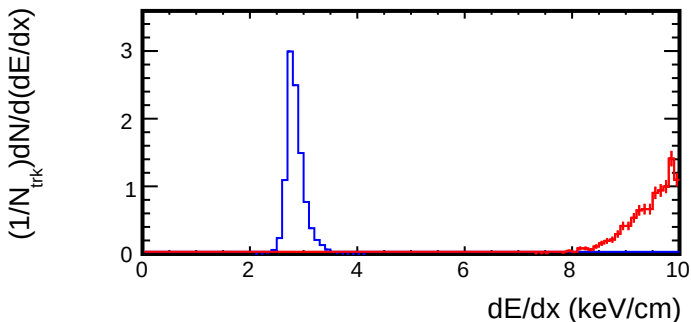
Reco p < 2.0 GeV/c



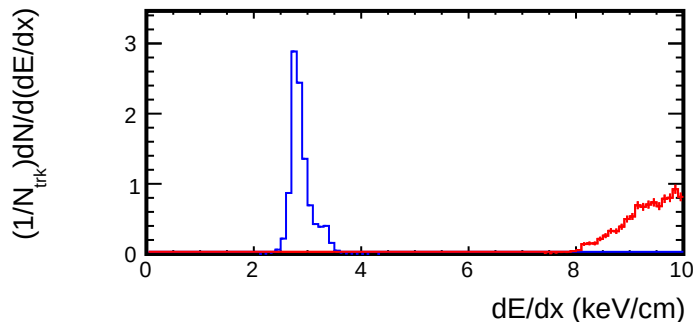
Reco p < 2.2 GeV/c



Reco p < 2.4 GeV/c



Reco p < 2.6 GeV/c

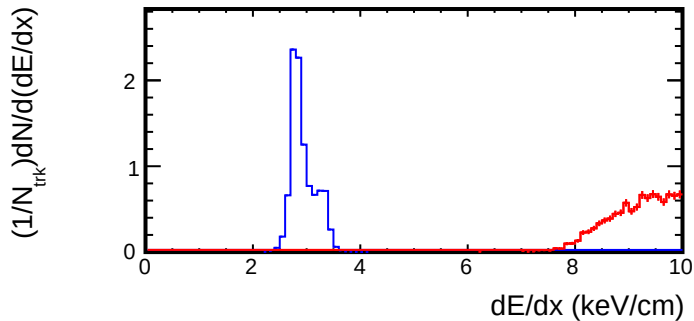


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

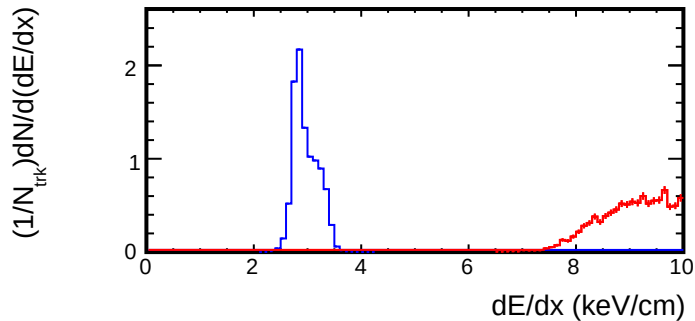
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

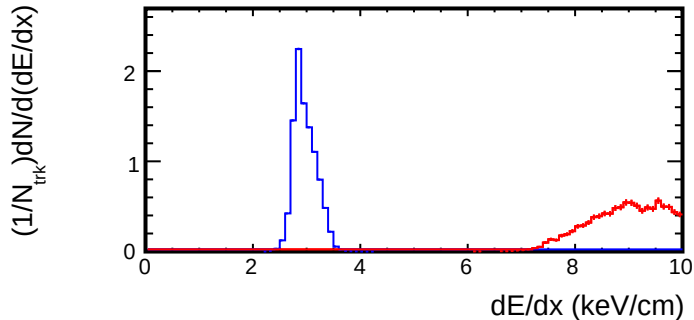
Reco p < 2.8 GeV/c



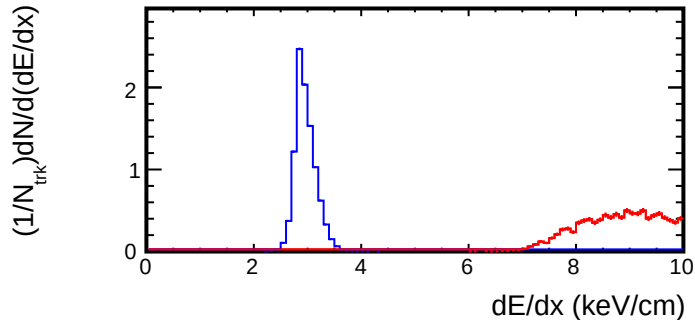
Reco p < 3.0 GeV/c



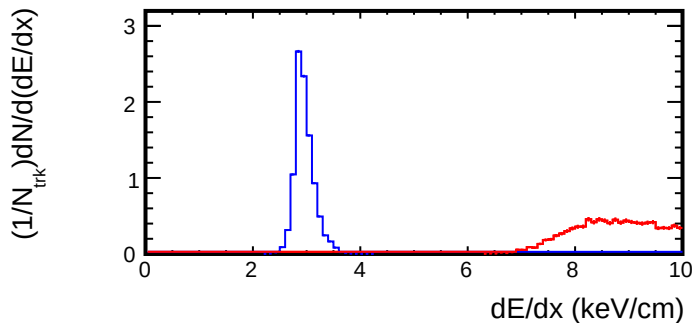
Reco p < 3.2 GeV/c



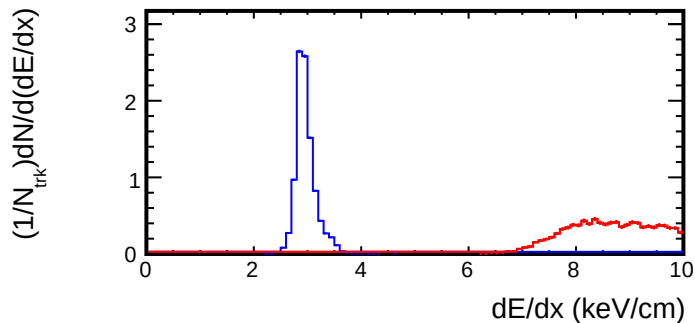
Reco p < 3.4 GeV/c



Reco p < 3.6 GeV/c



Reco p < 3.8 GeV/c

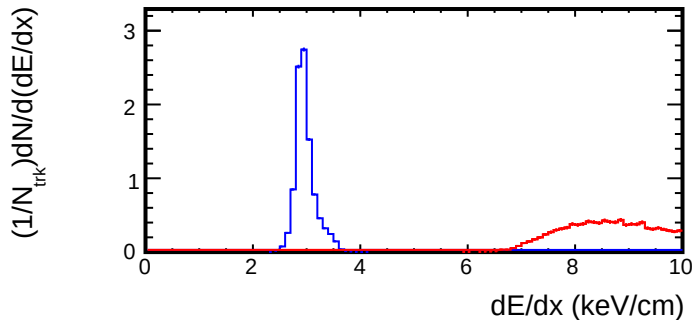


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

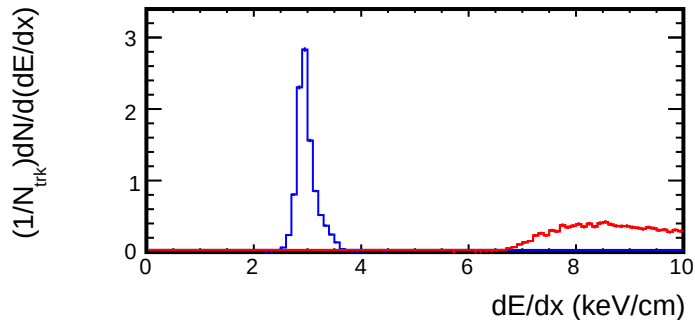
— pi+
(PRIMARY, $|n \sigma_{\pi^+}| < 2$ TPC)

Projection of dE/dx for each p bin

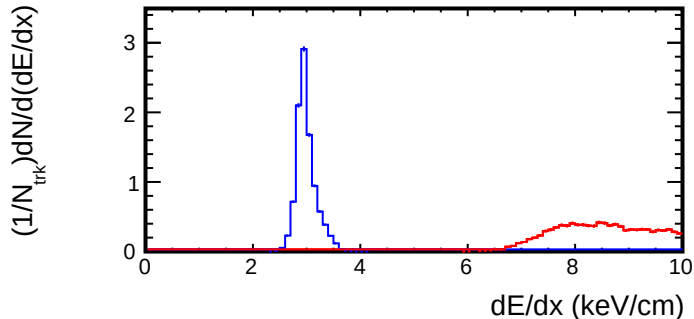
Reco p < 4.0 GeV/c



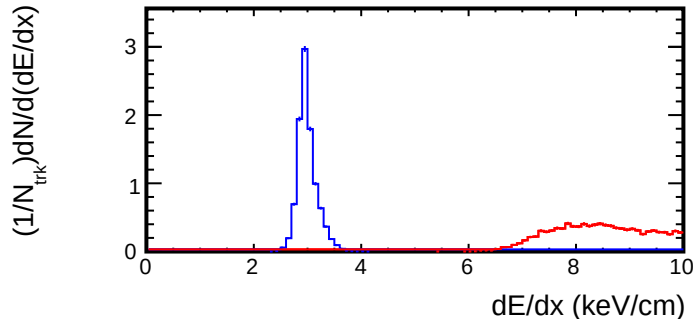
Reco p < 4.2 GeV/c



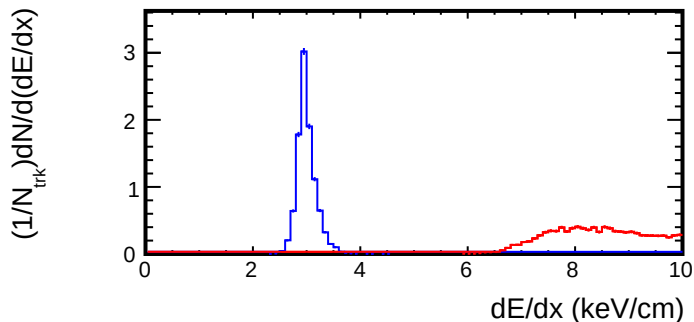
Reco p < 4.4 GeV/c



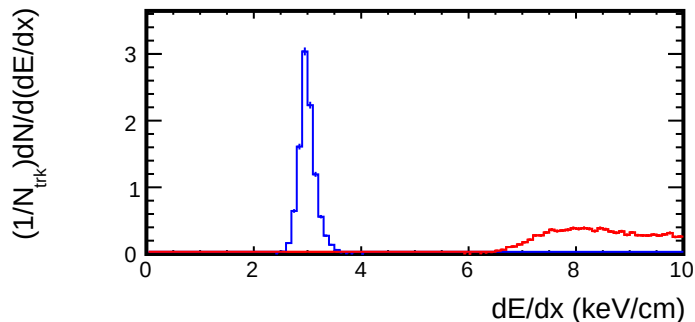
Reco p < 4.6 GeV/c



Reco p < 4.8 GeV/c

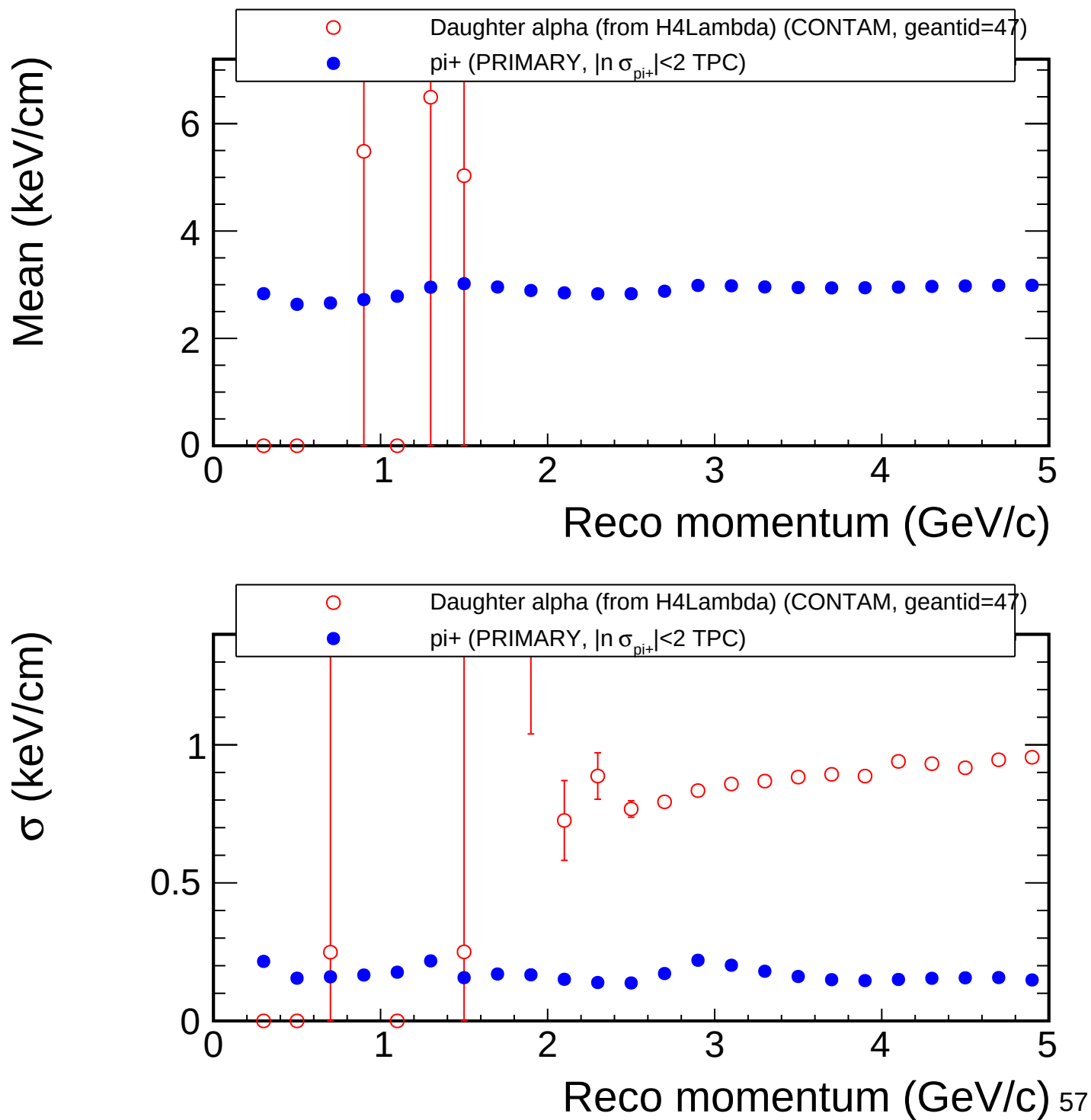


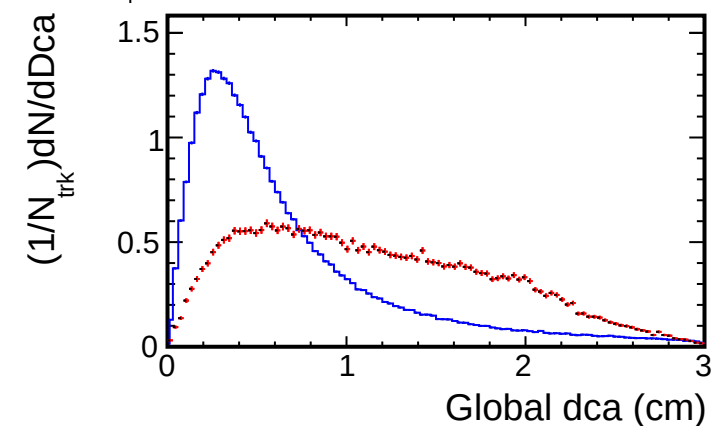
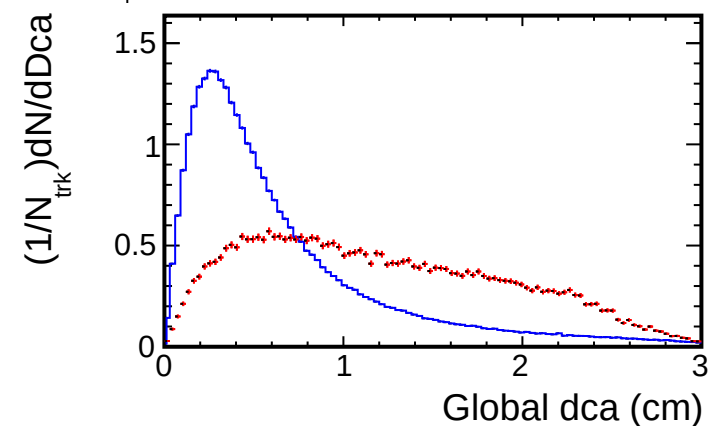
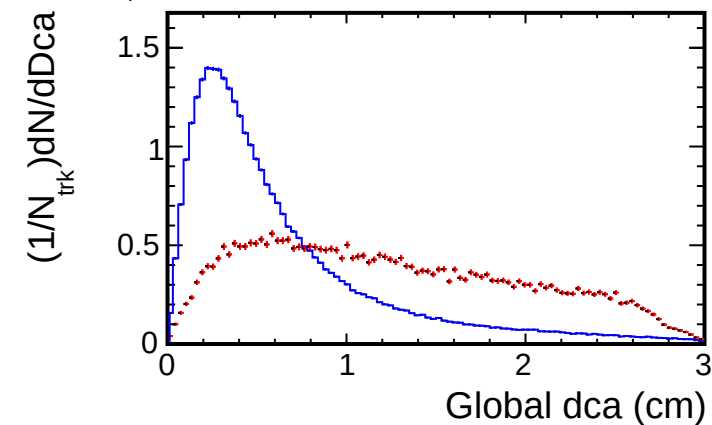
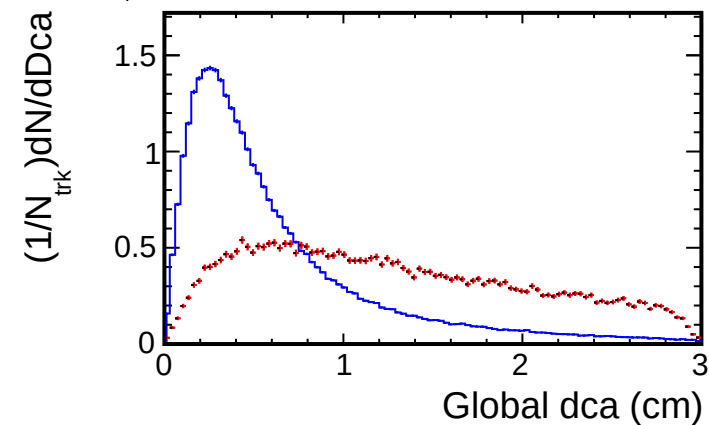
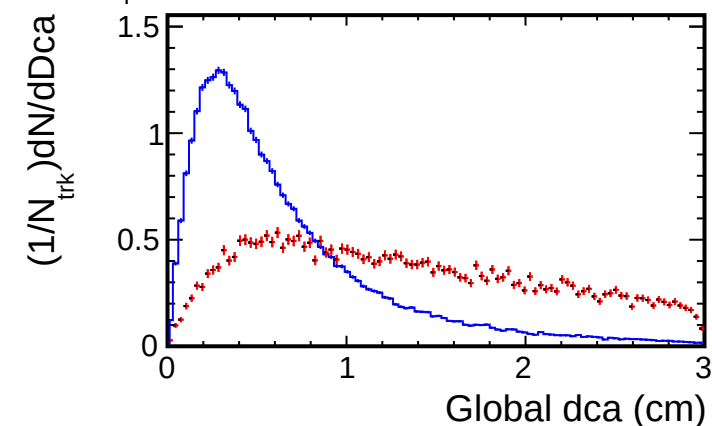
Reco p < 5.0 GeV/c



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

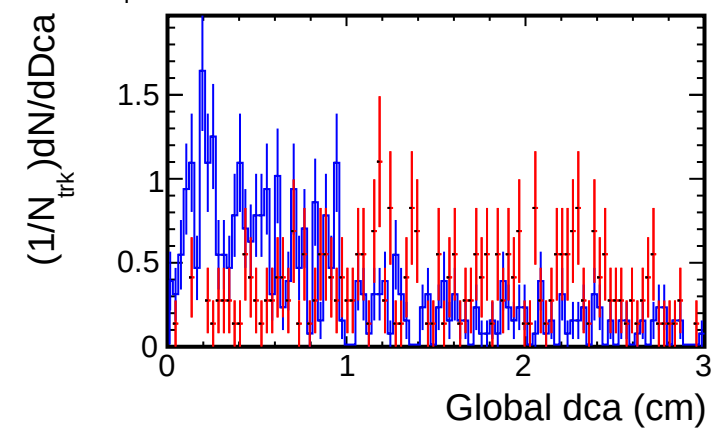
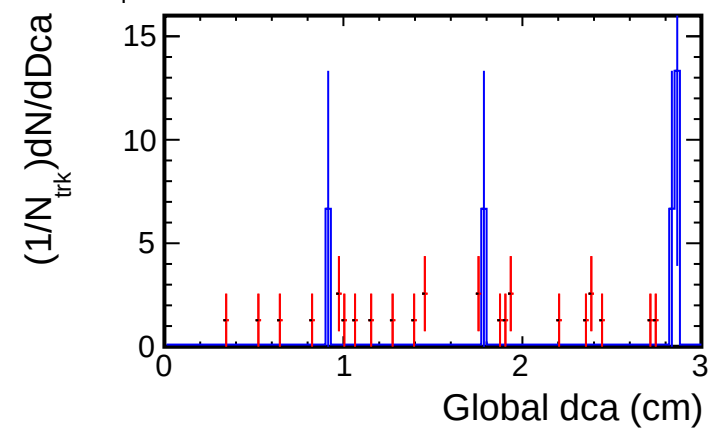
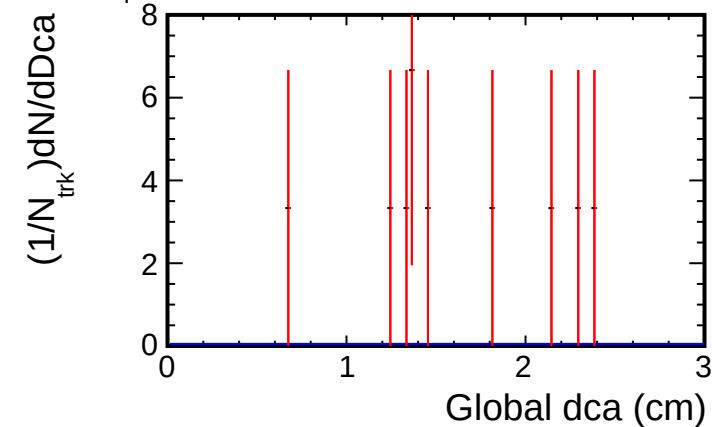
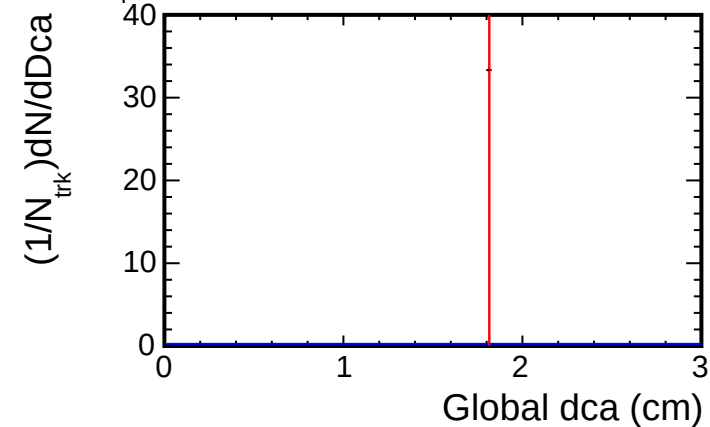
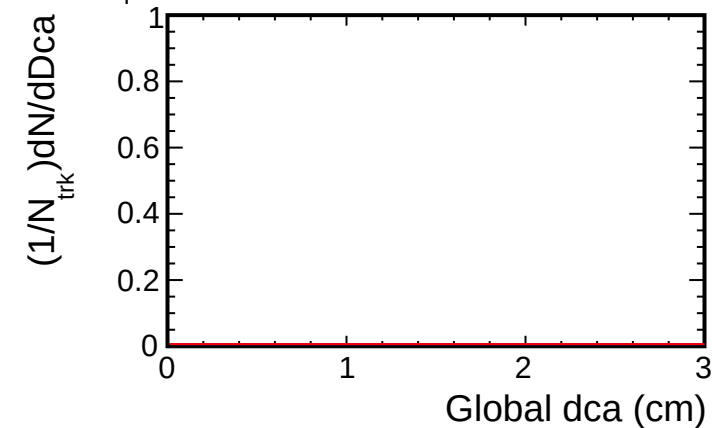
— pi+
(PRIMARY, $|n\sigma_{\text{pi}+}| < 2$ TPC)

Mean/ σ of dE/dx vs momentum

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

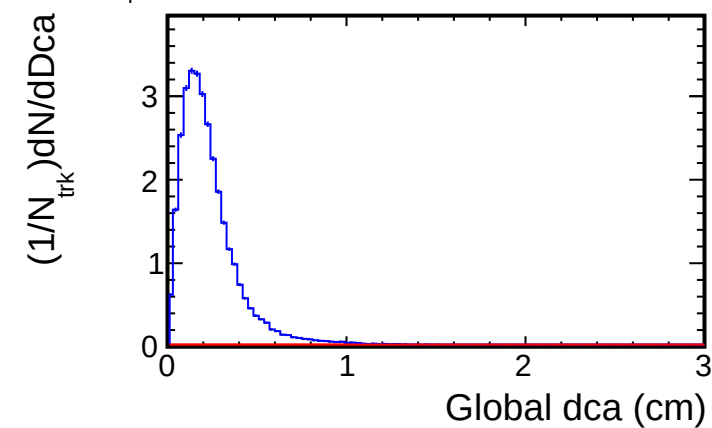
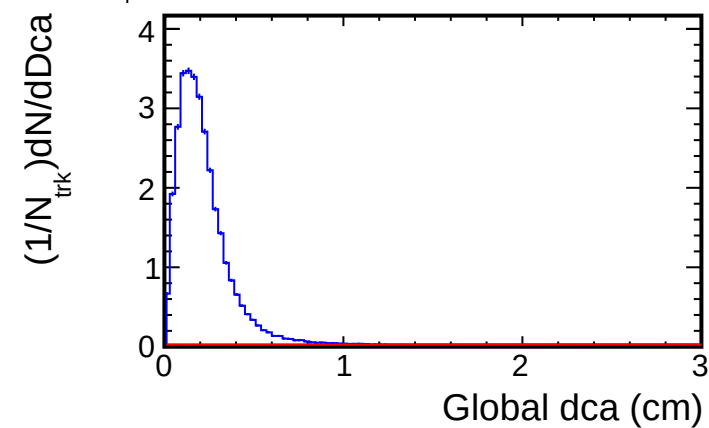
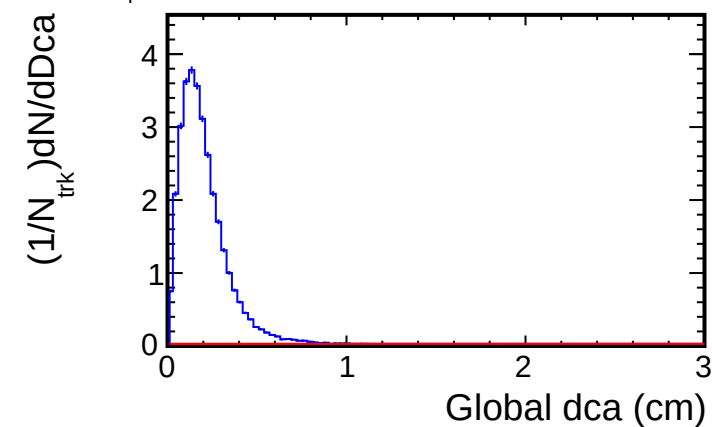
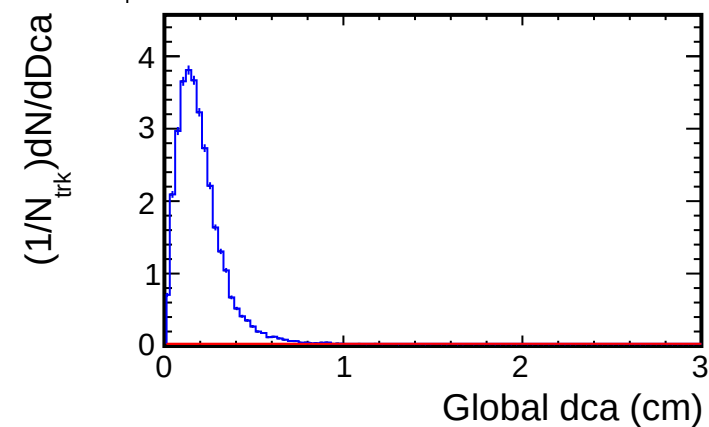
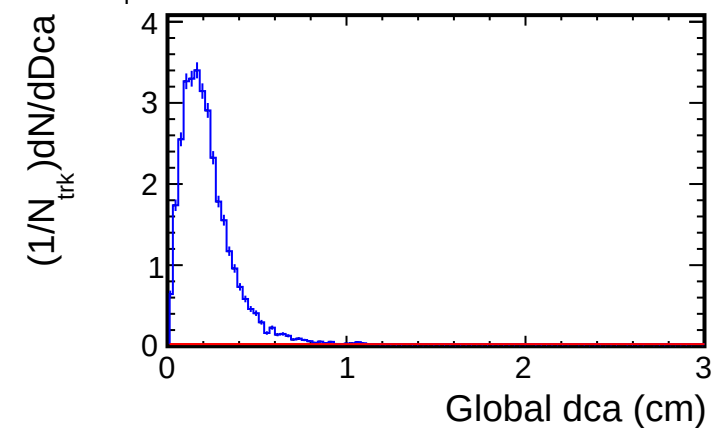
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

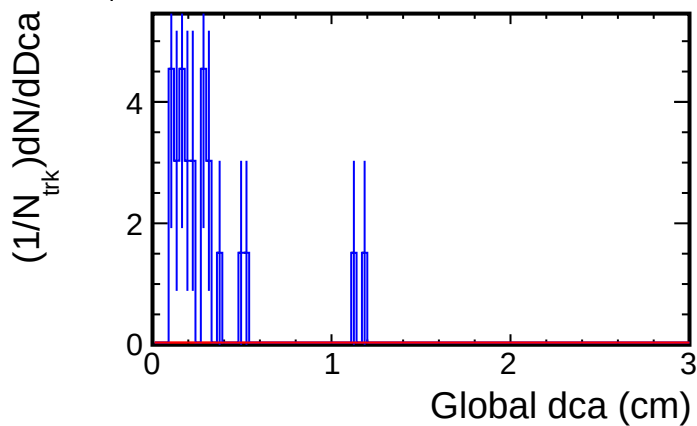
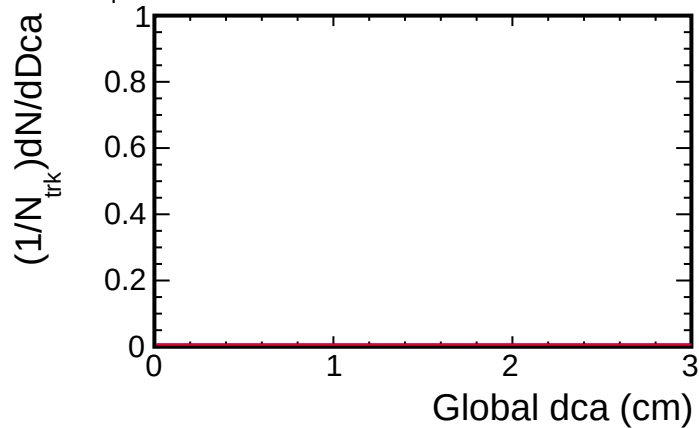
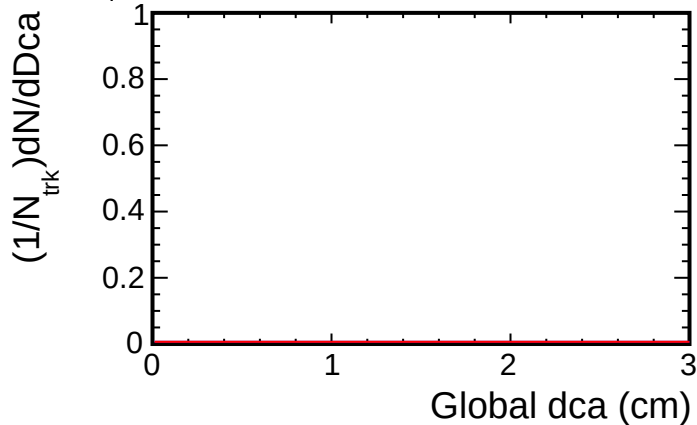
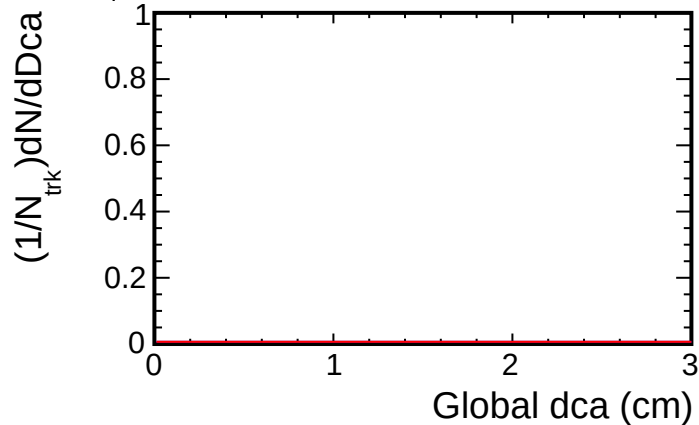
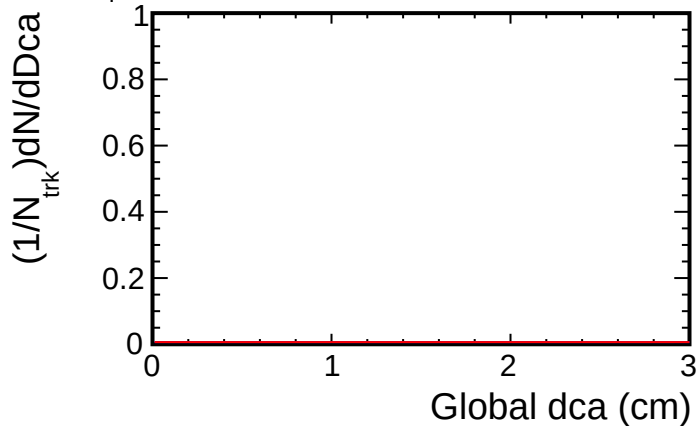
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

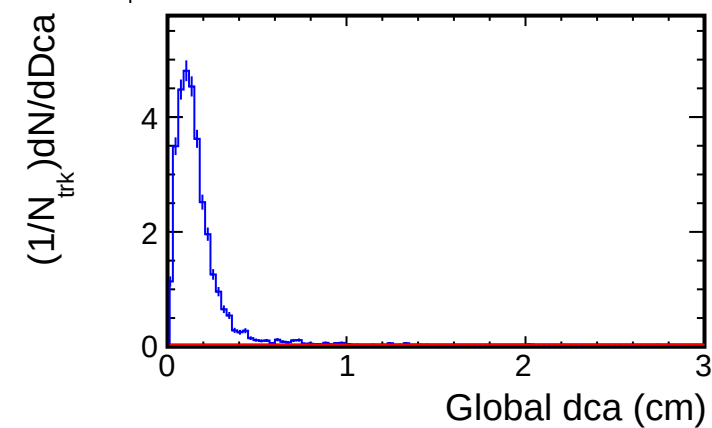
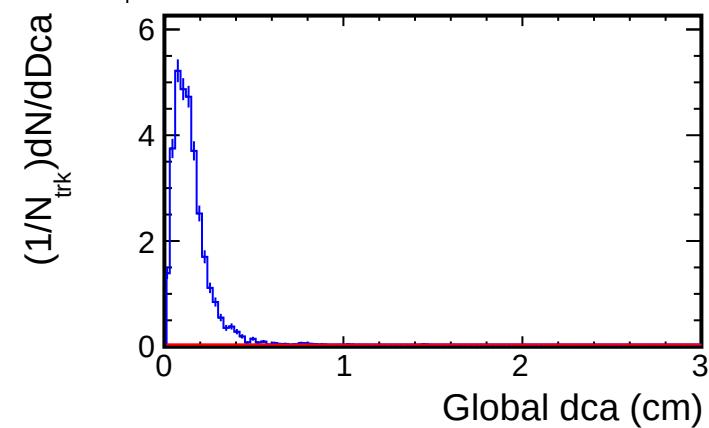
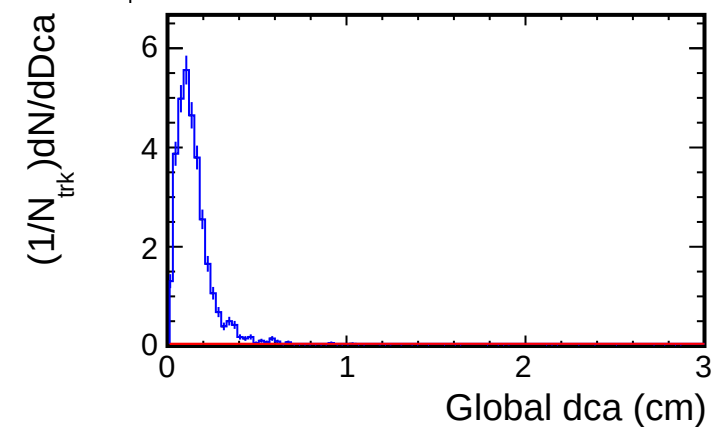
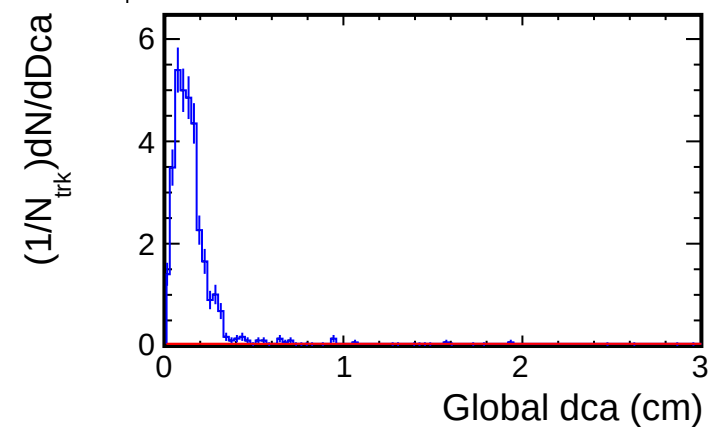
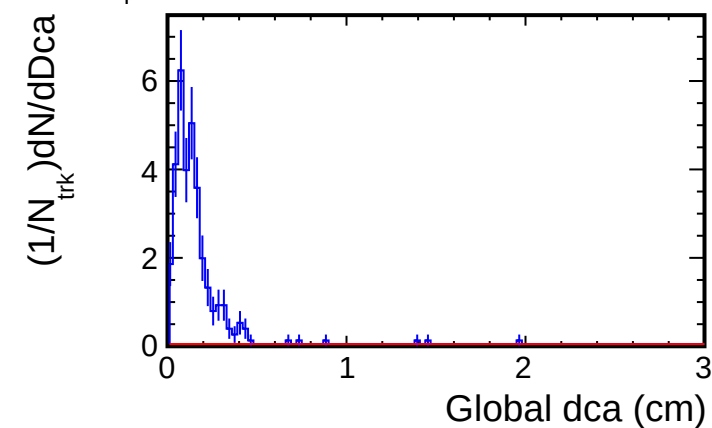
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

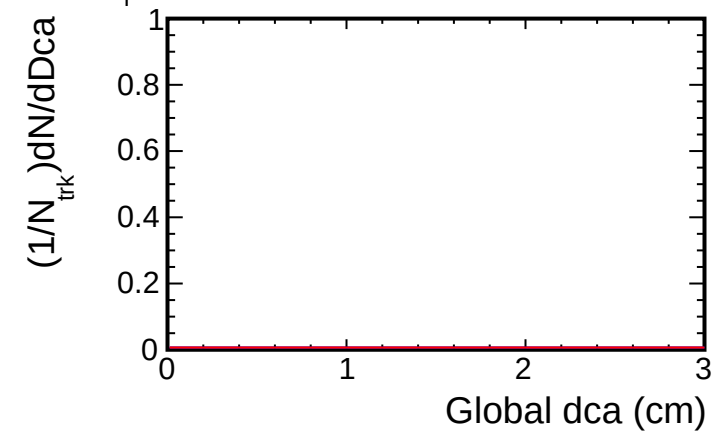
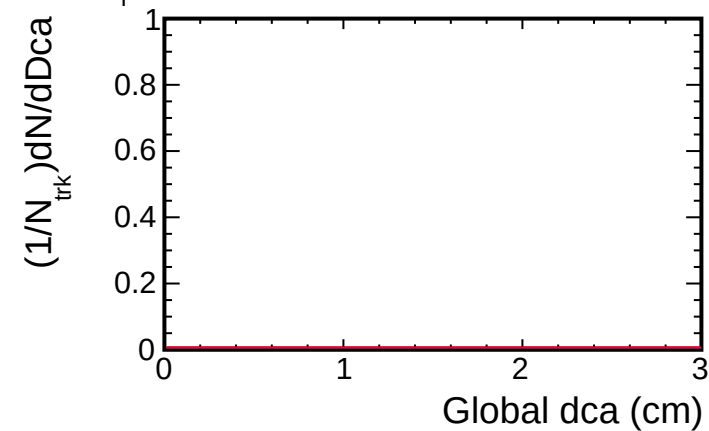
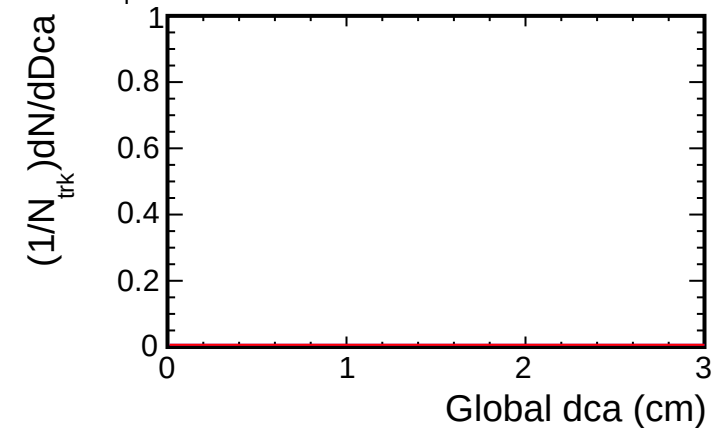
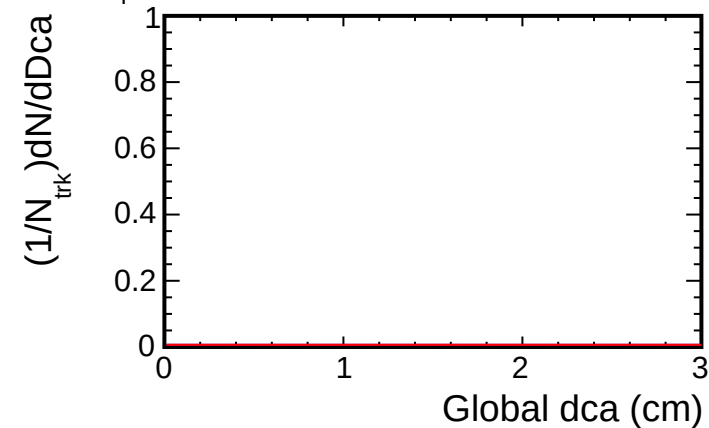
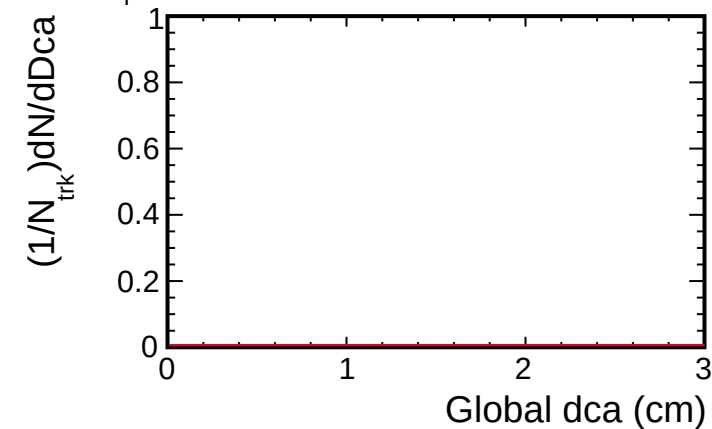
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

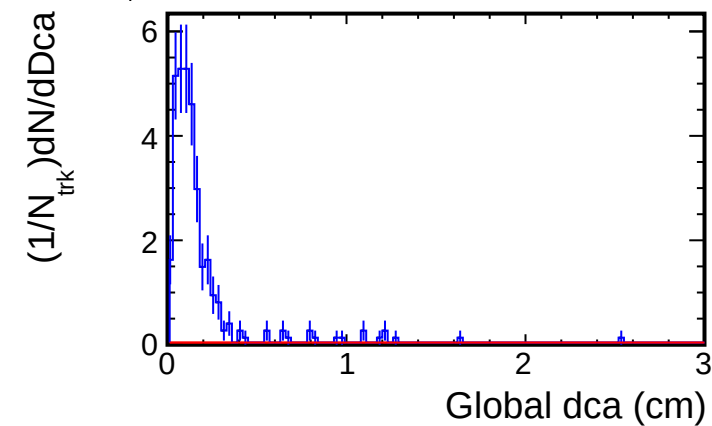
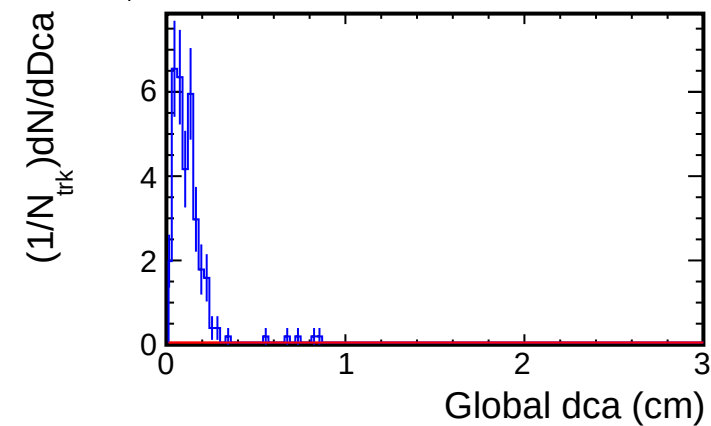
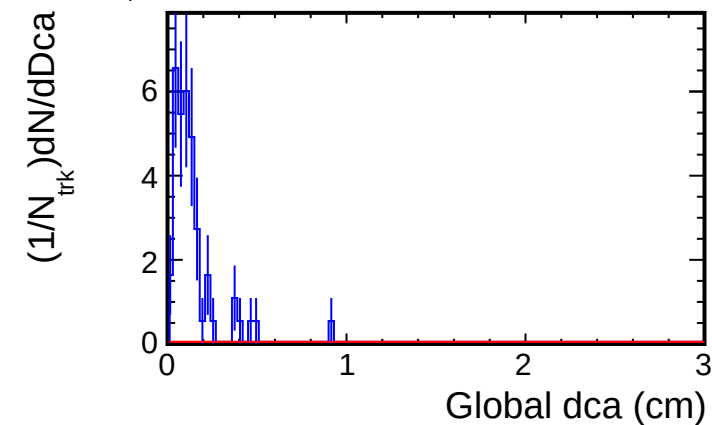
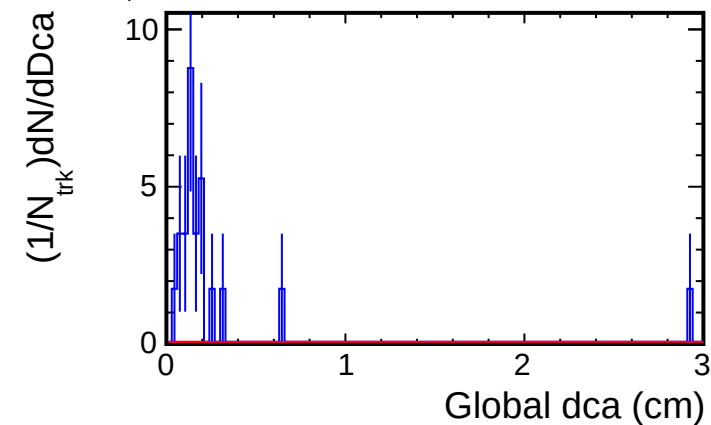
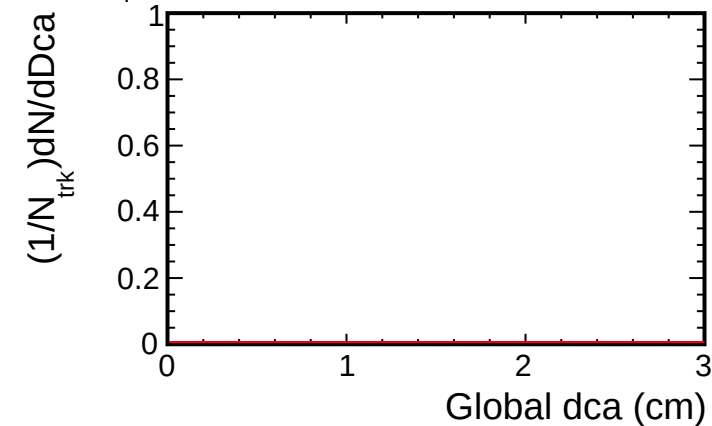
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) 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)

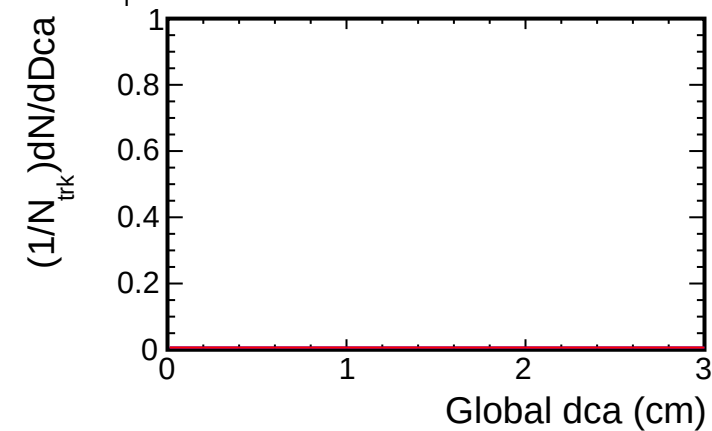
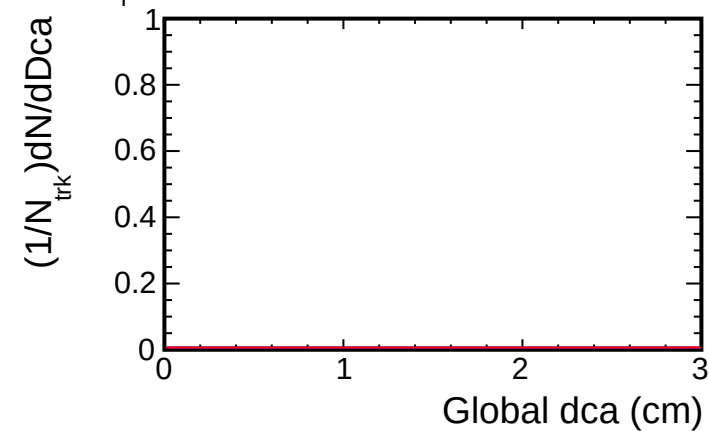
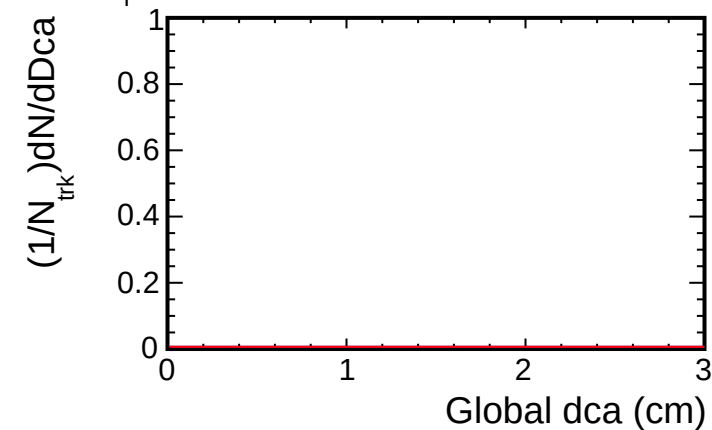
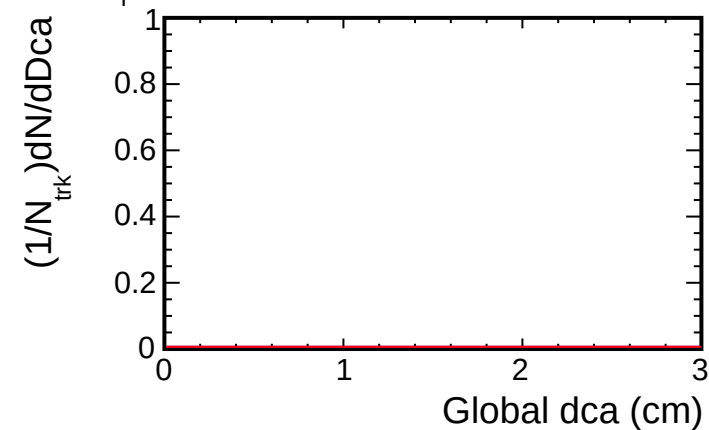
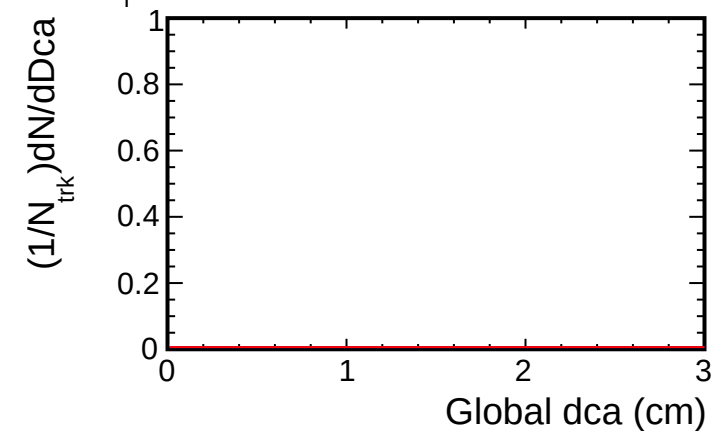
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

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

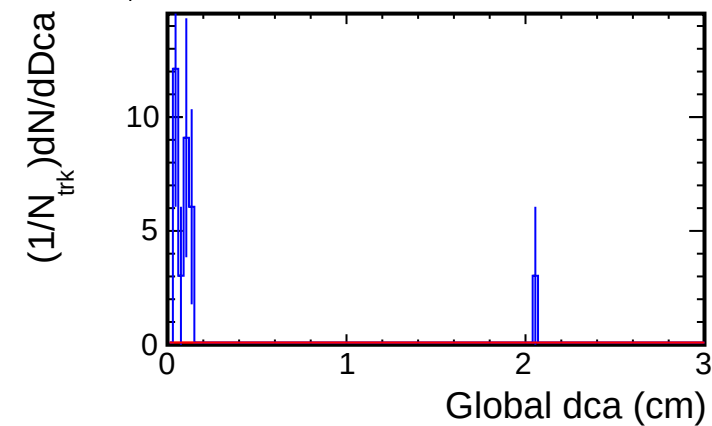
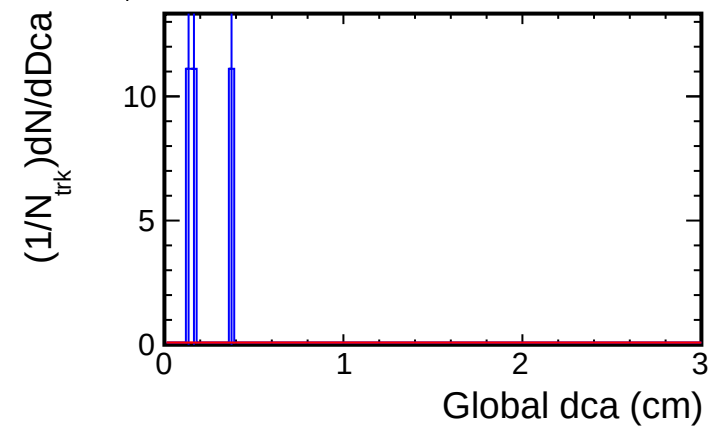
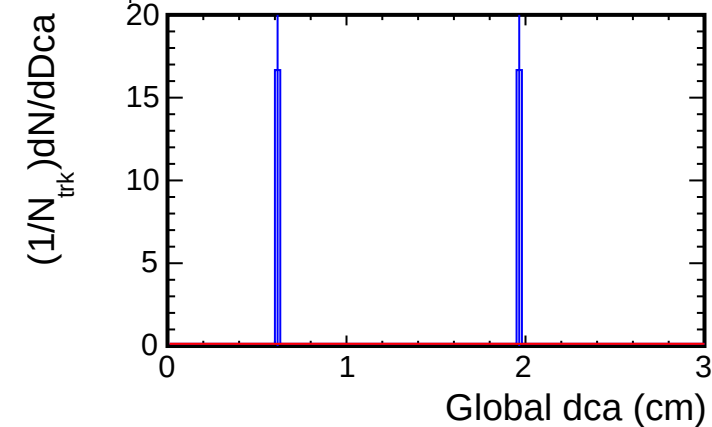
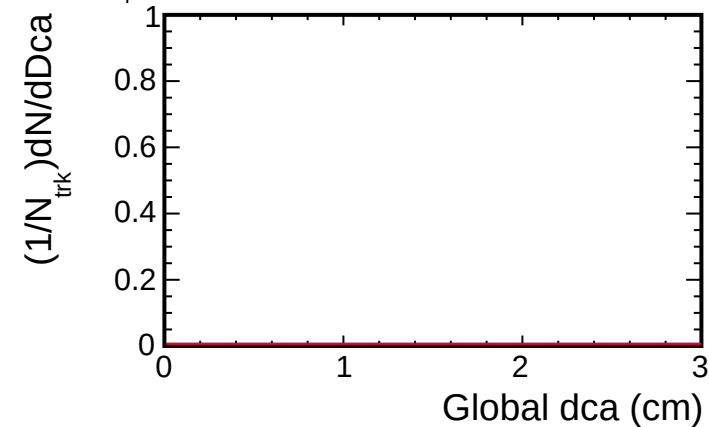
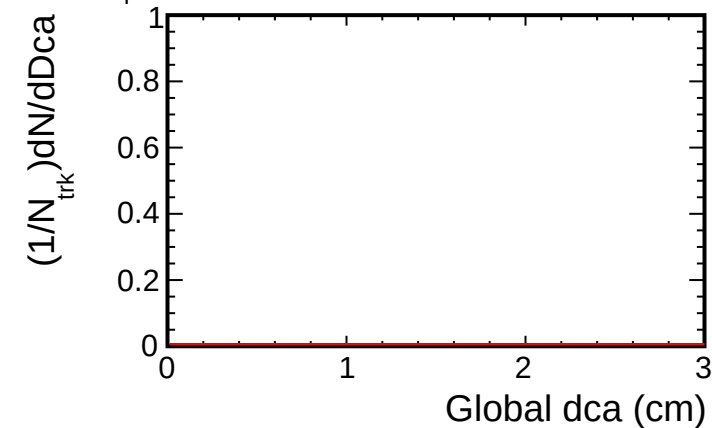
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

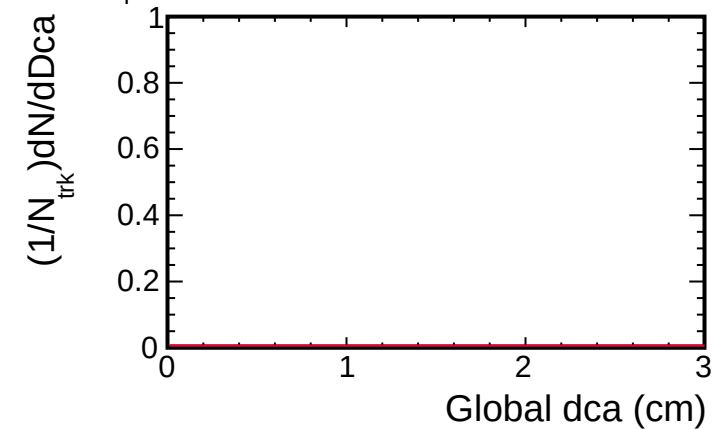
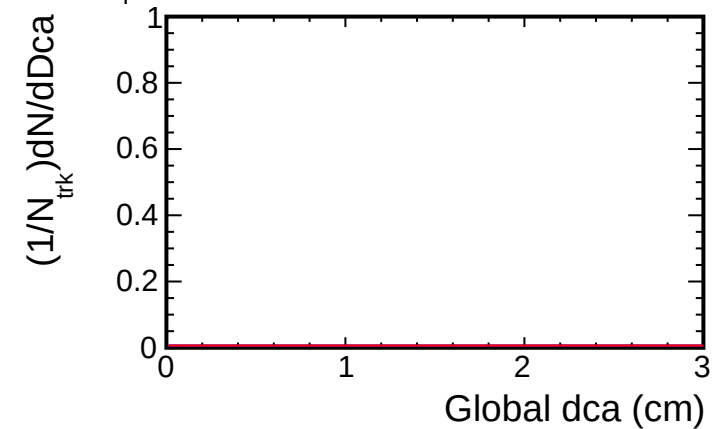
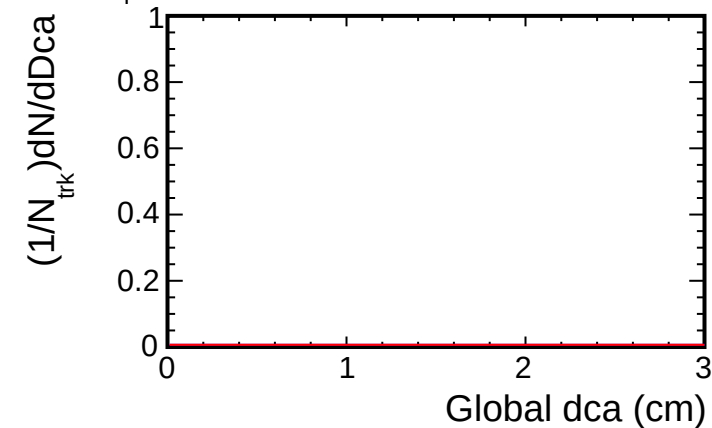
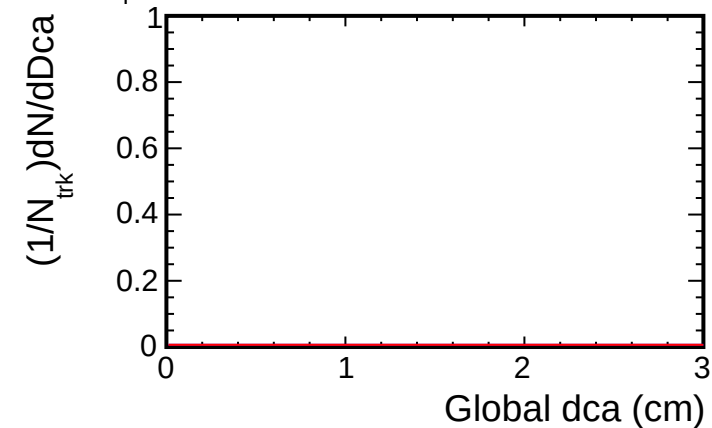
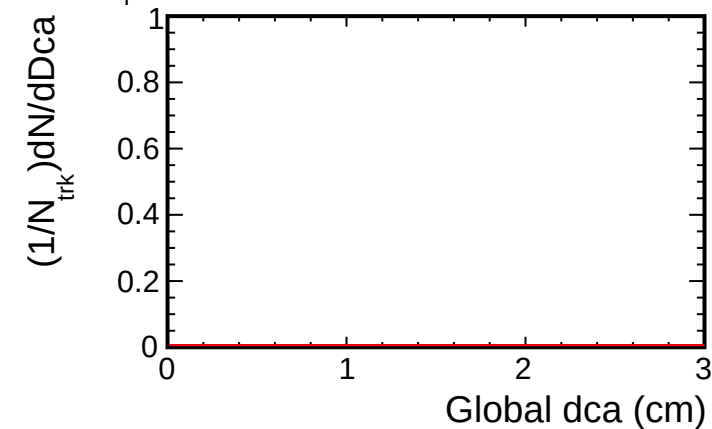
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) 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)

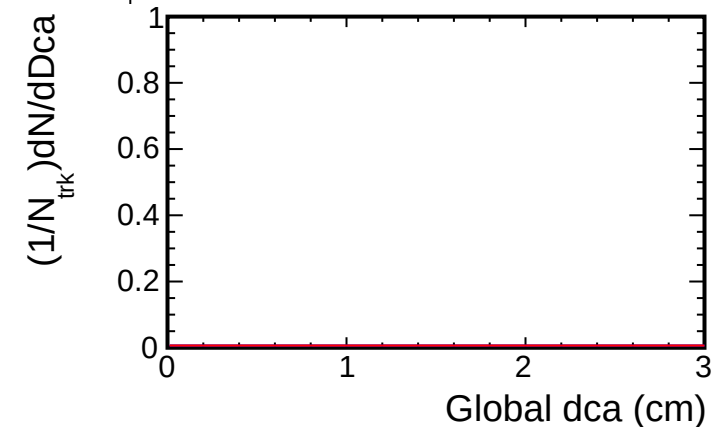
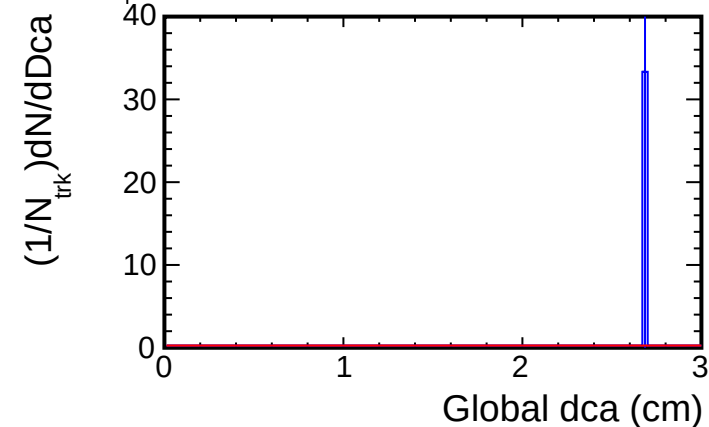
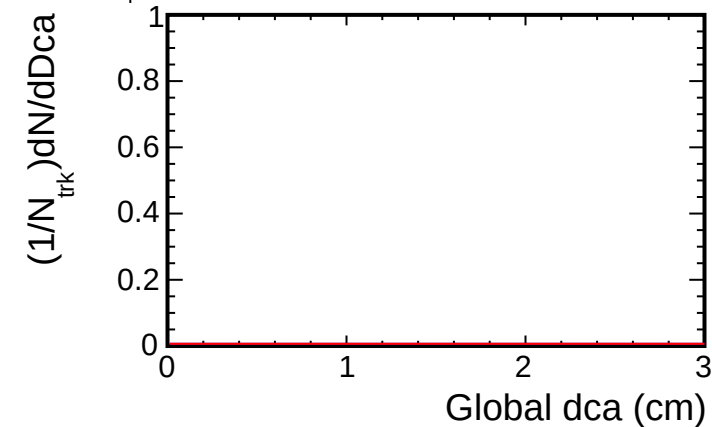
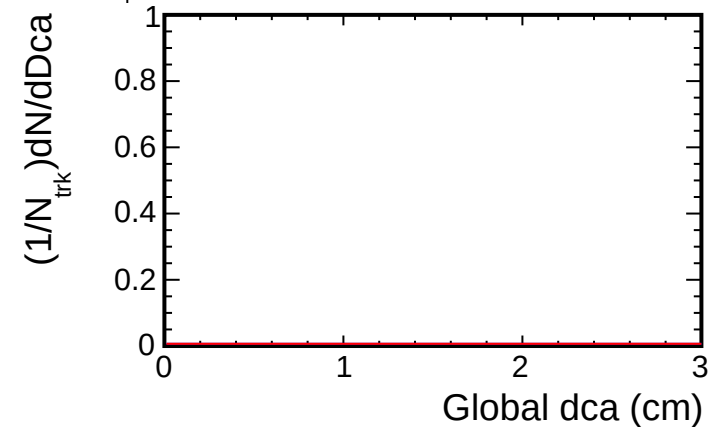
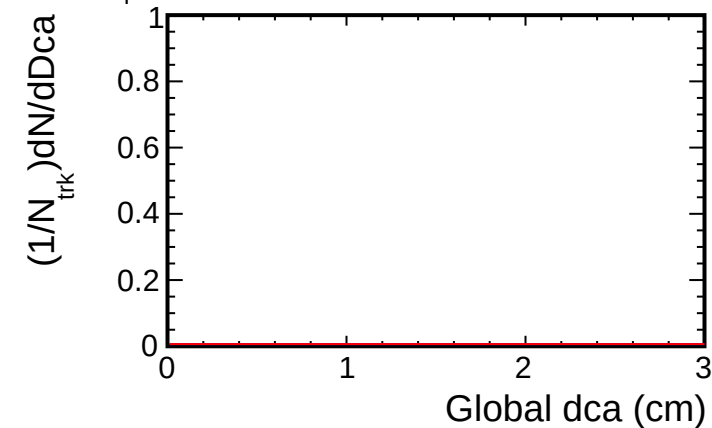
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

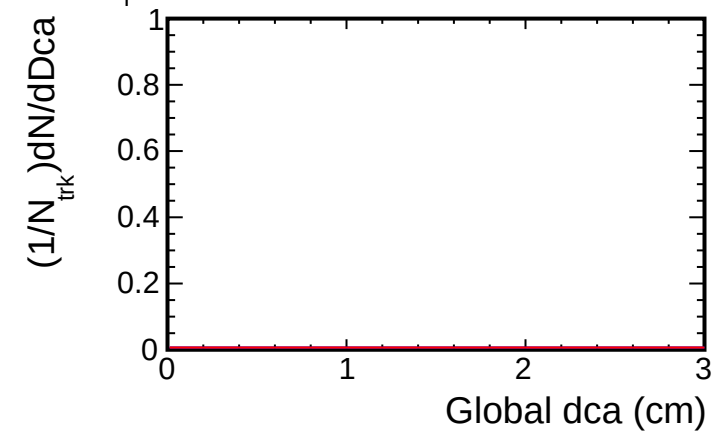
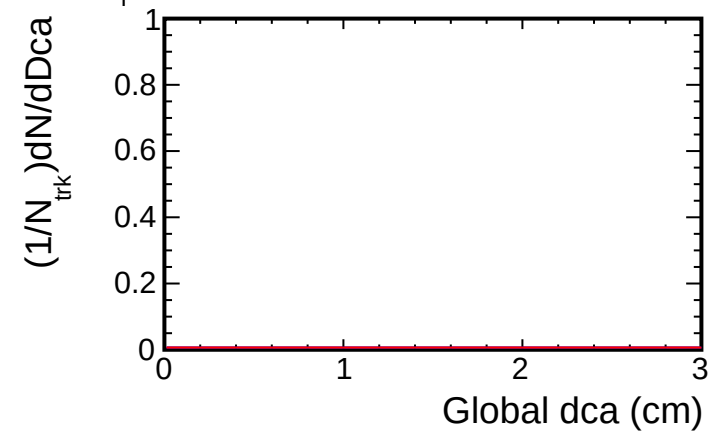
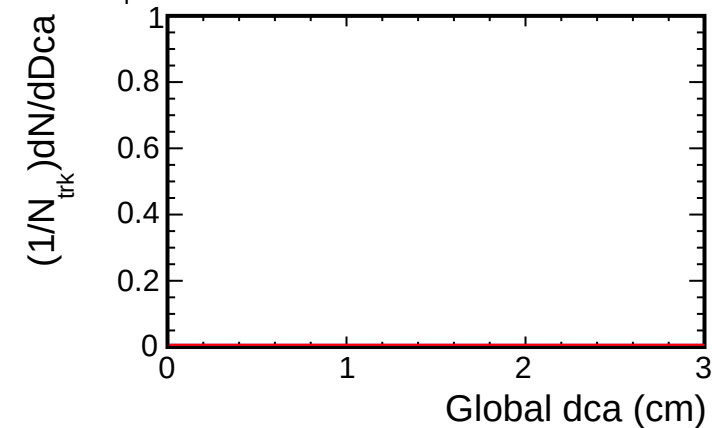
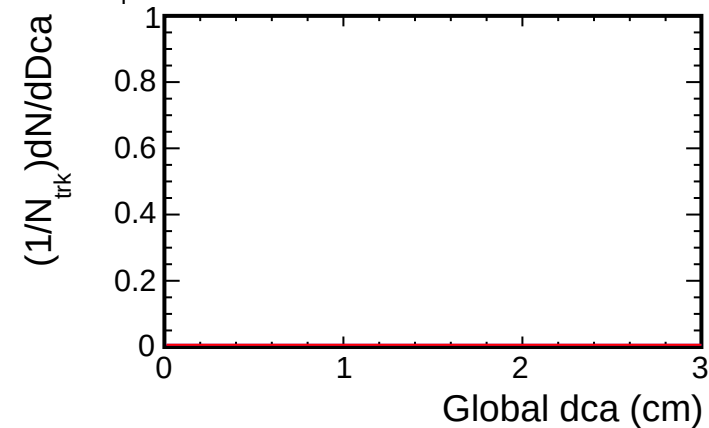
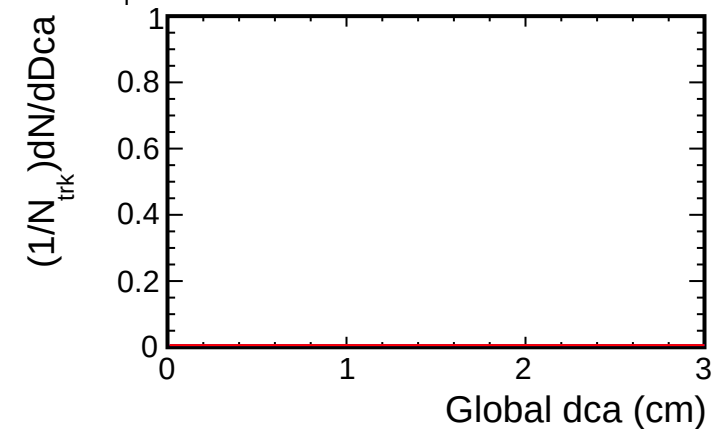
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices $1.8, 2.5 < p_T < 3.0$ (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)

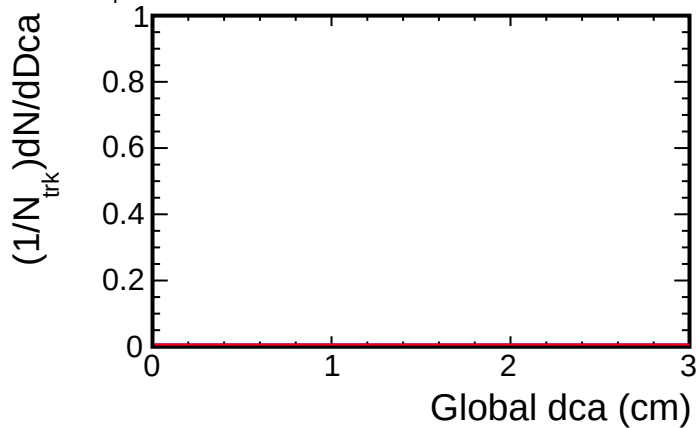
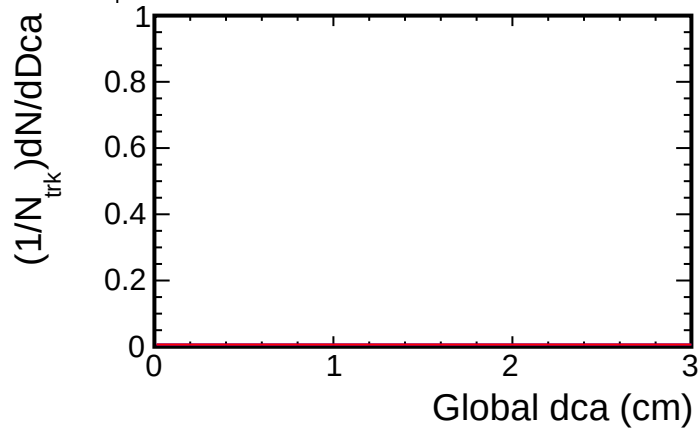
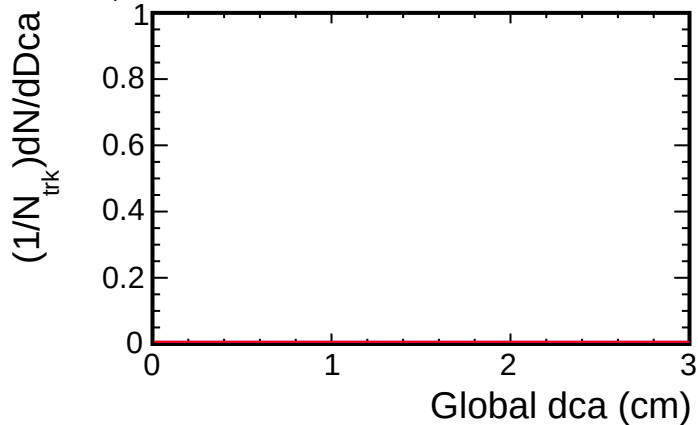
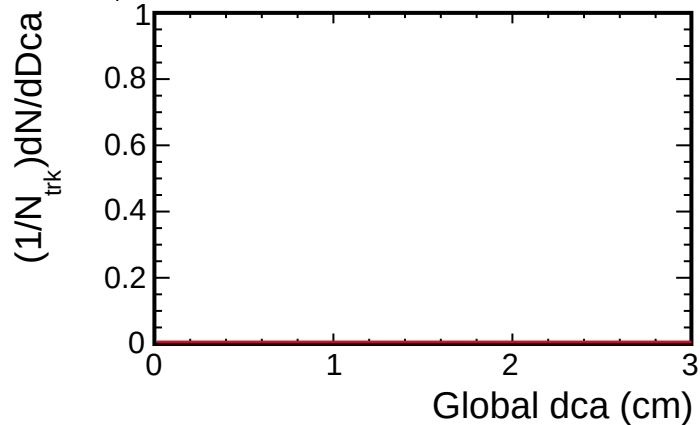
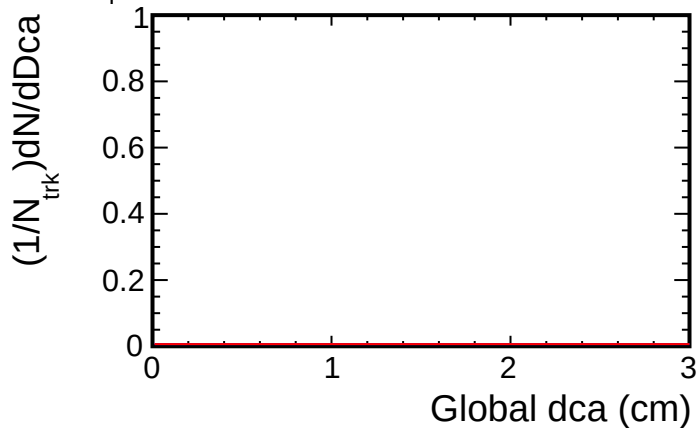
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

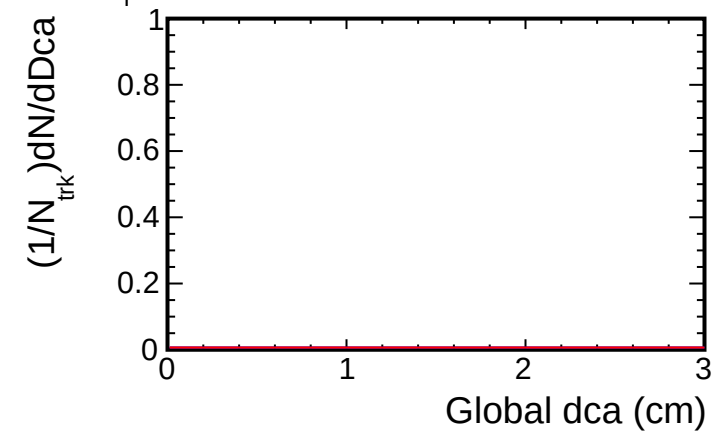
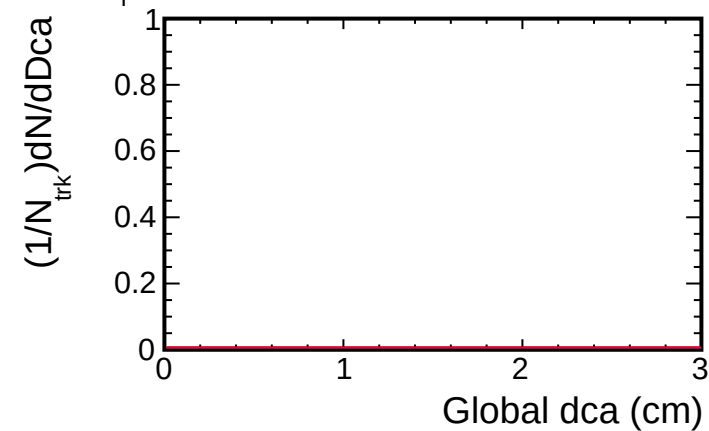
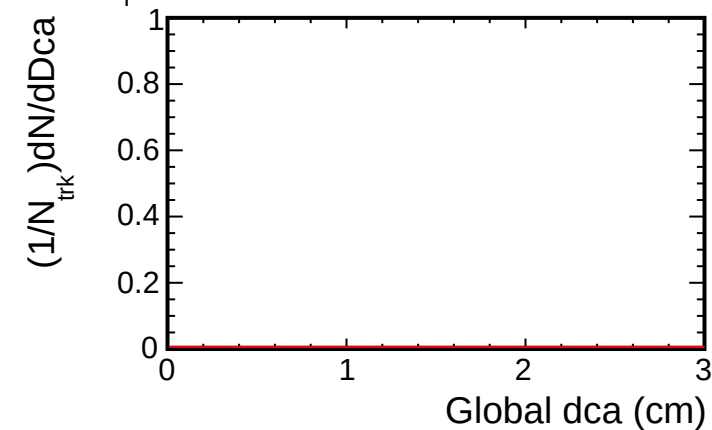
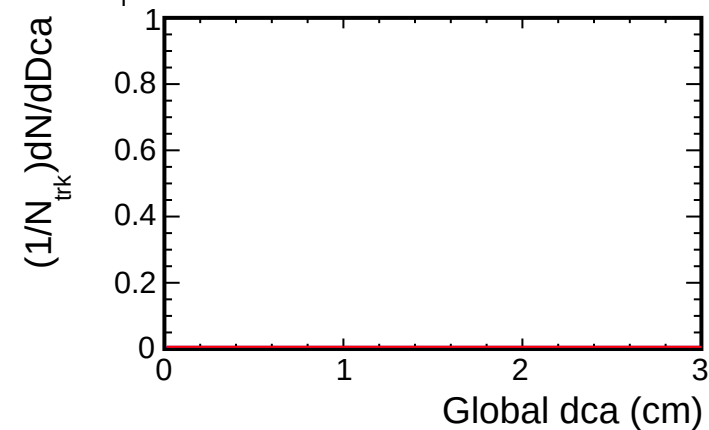
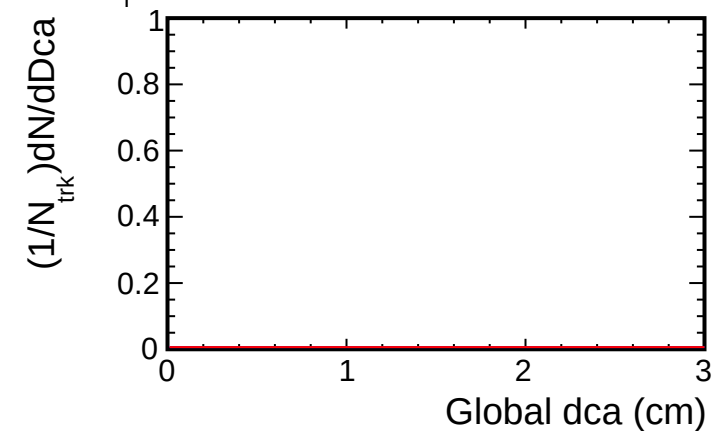
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

Dca distribution for (p_T , η) slices $1.8, 3.0 < p_T < 3.5$ (GeV/c) $1.6, 3.0 < p_T < 3.5$ (GeV/c) $1.4, 3.0 < p_T < 3.5$ (GeV/c) $1.2, 3.0 < p_T < 3.5$ (GeV/c) $1.0, 3.0 < p_T < 3.5$ (GeV/c)

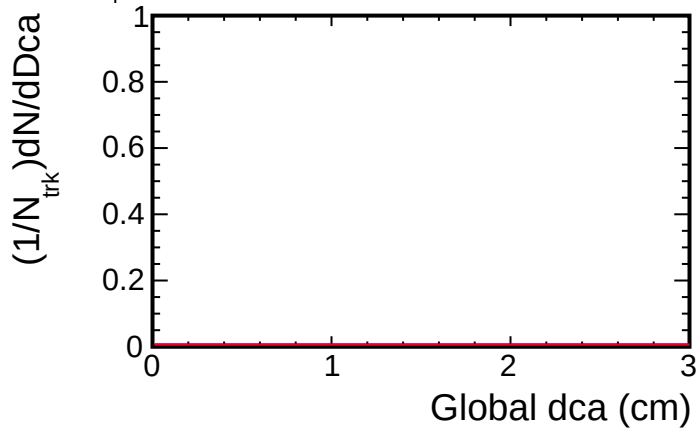
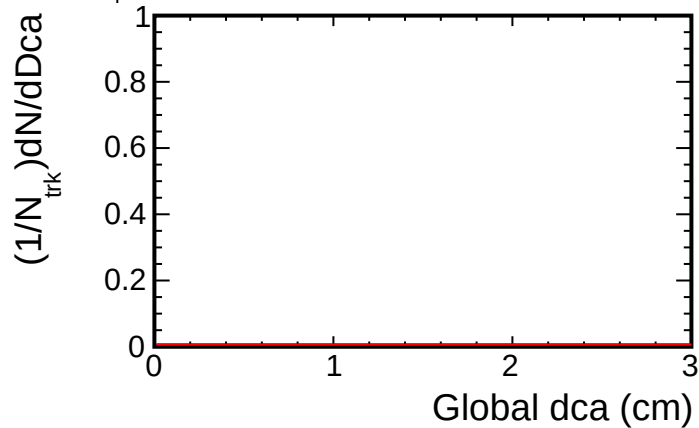
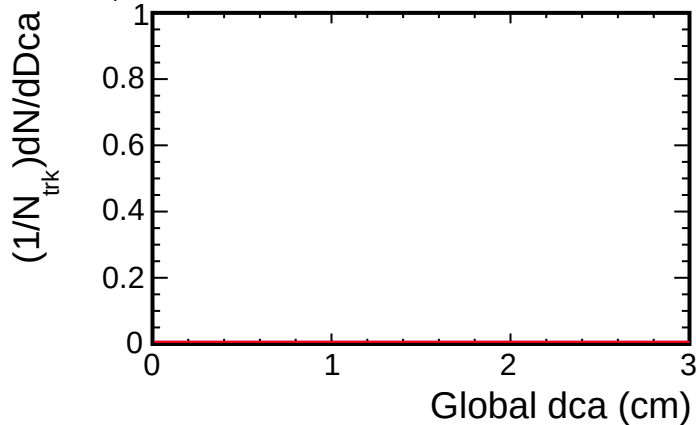
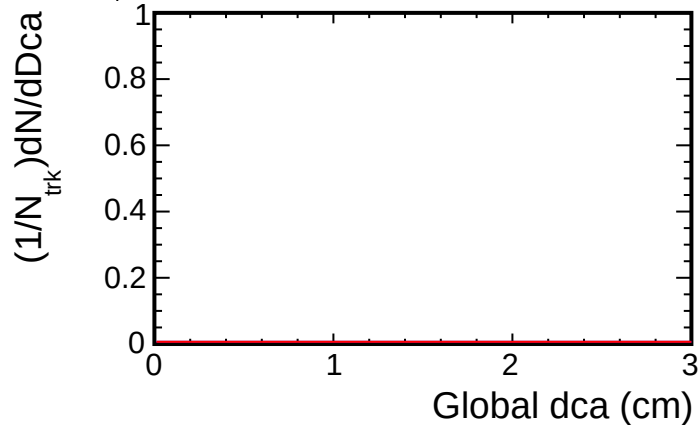
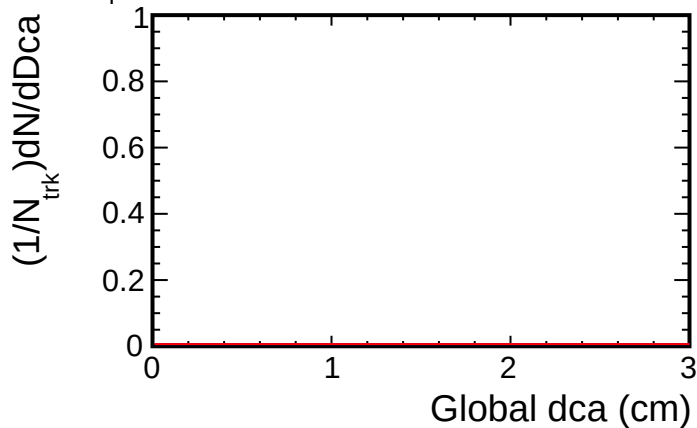
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

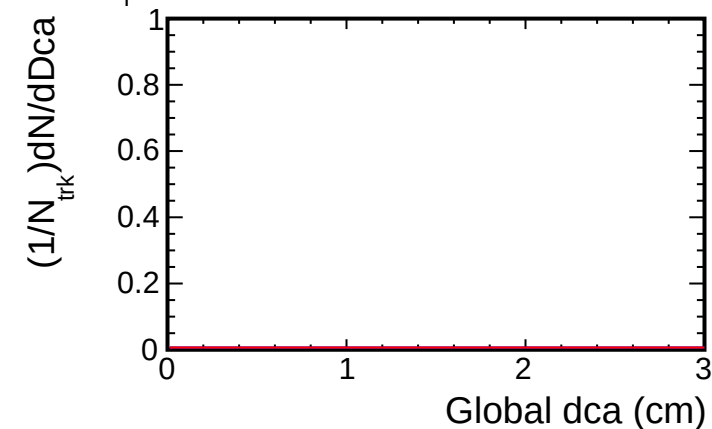
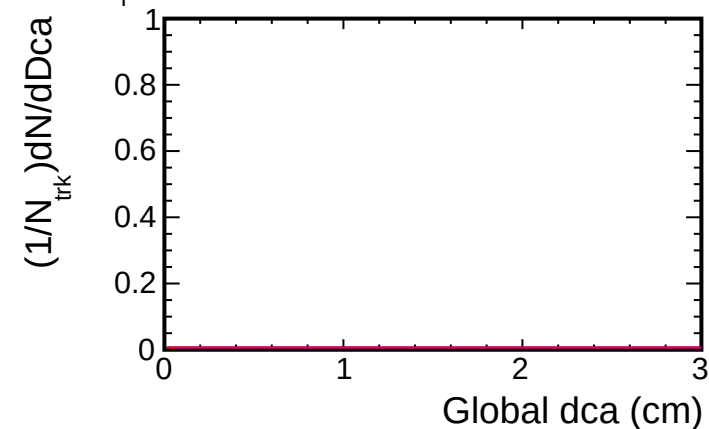
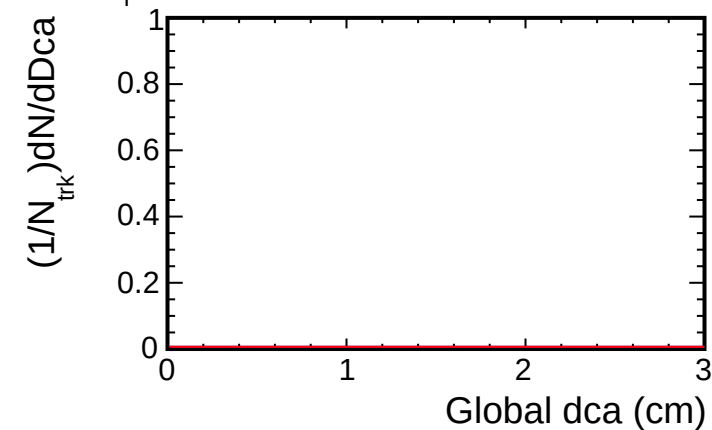
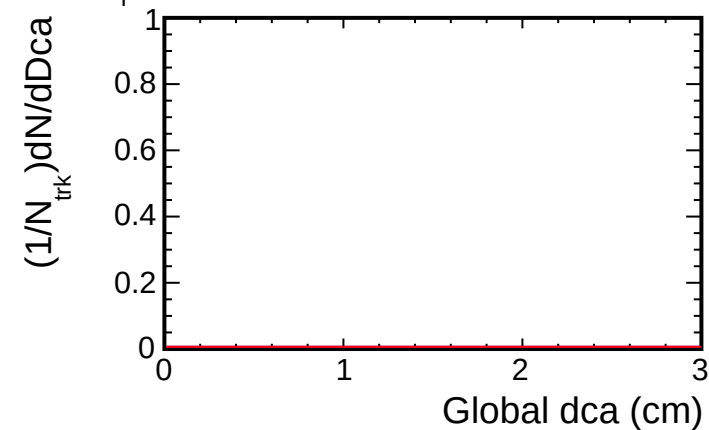
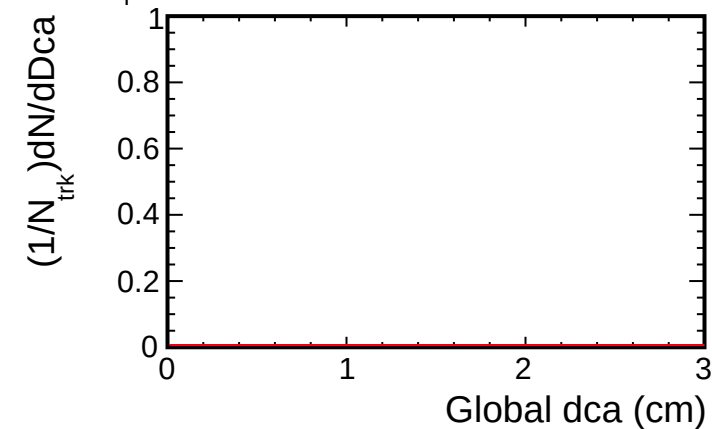
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

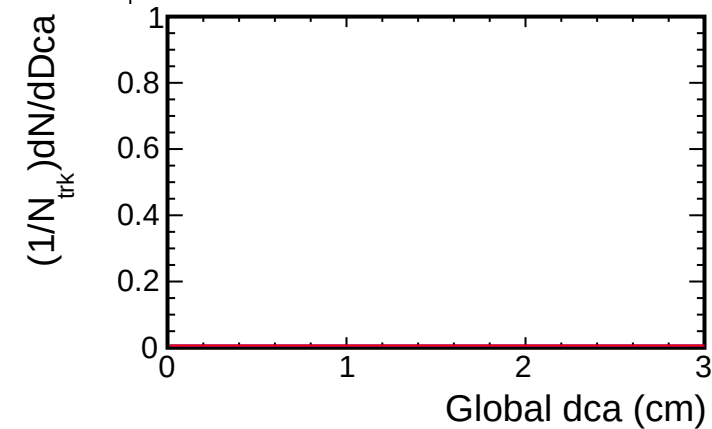
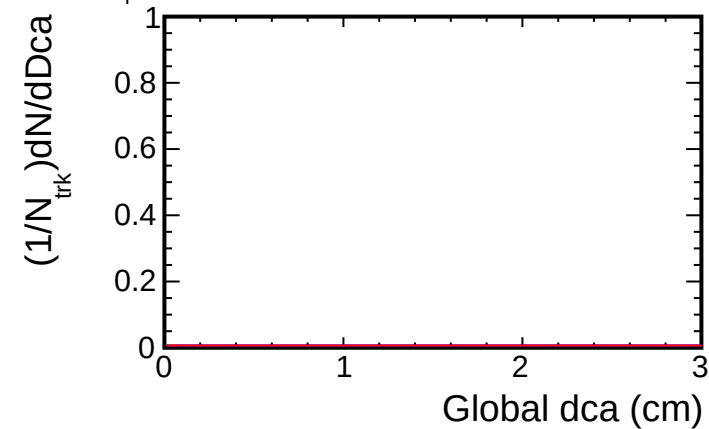
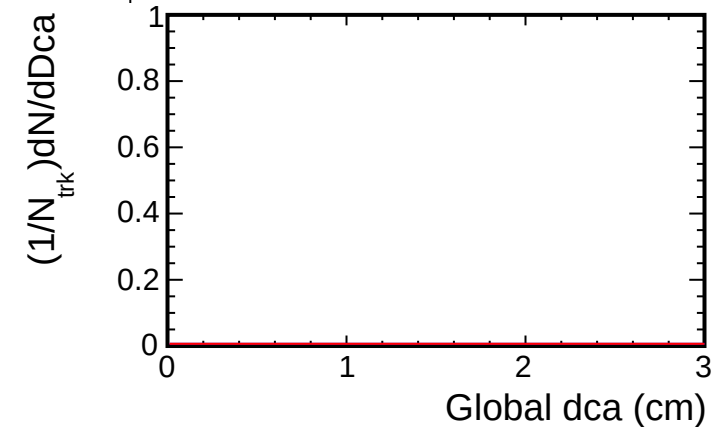
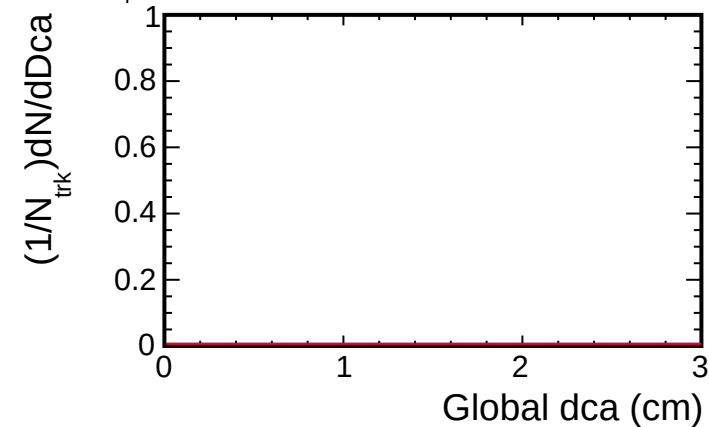
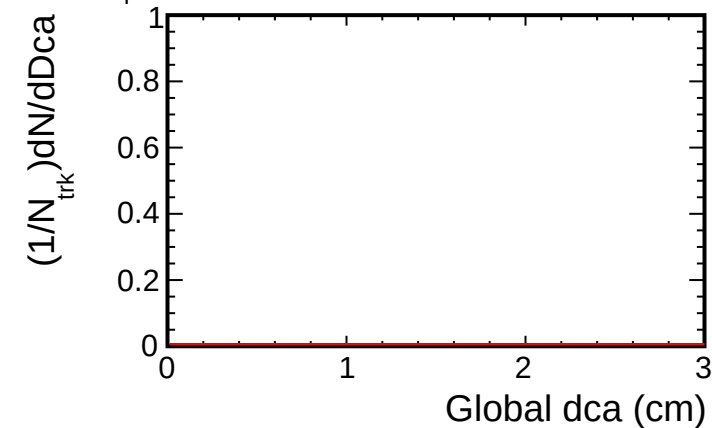
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

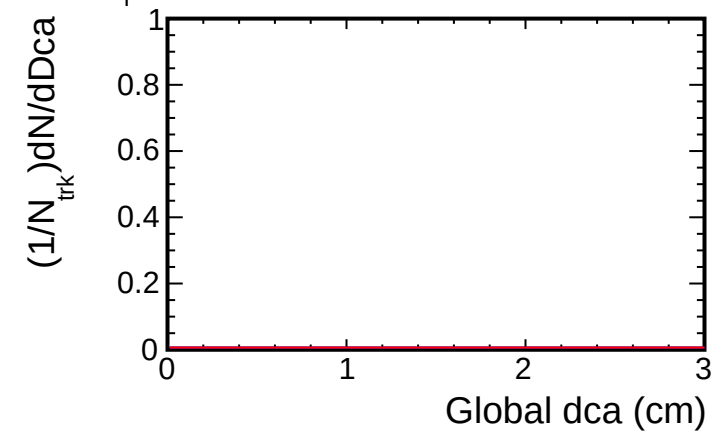
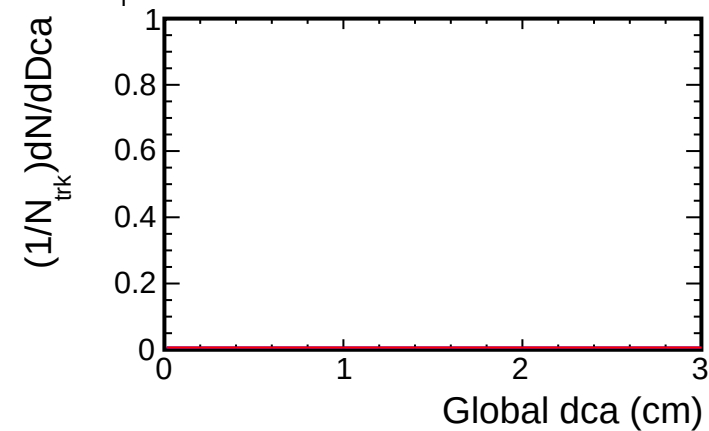
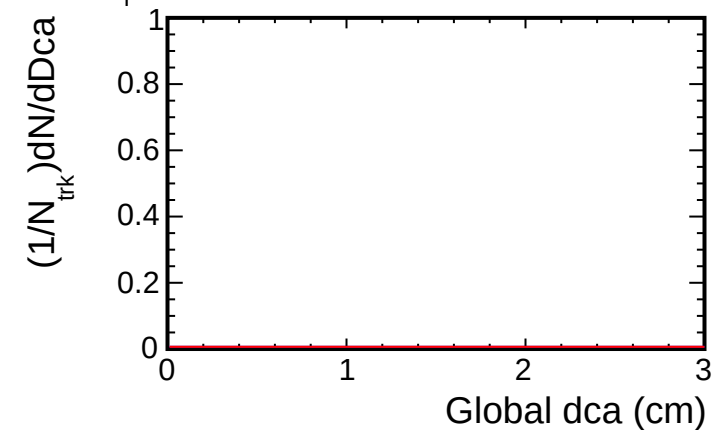
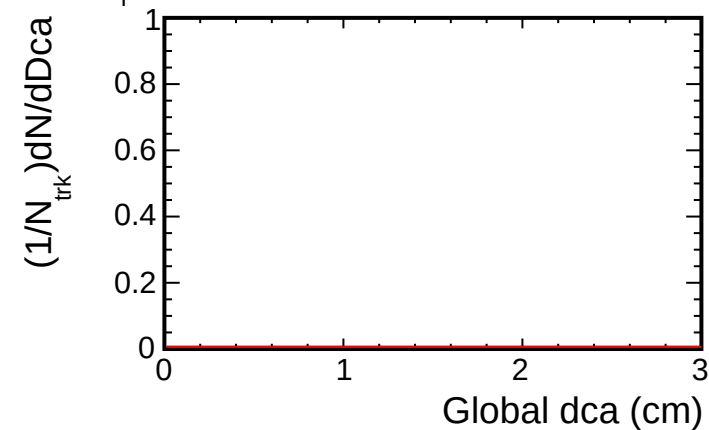
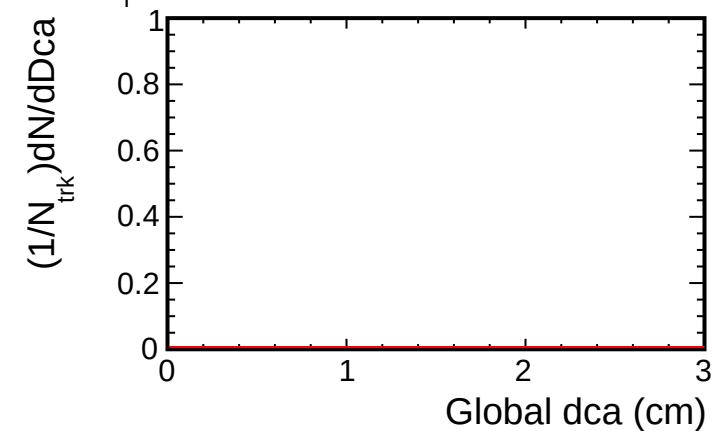
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

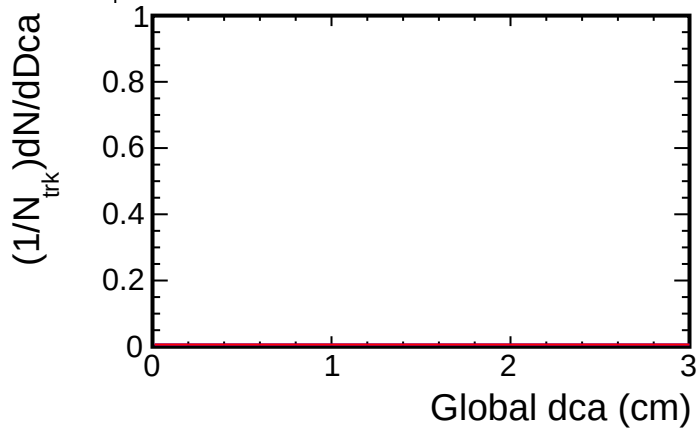
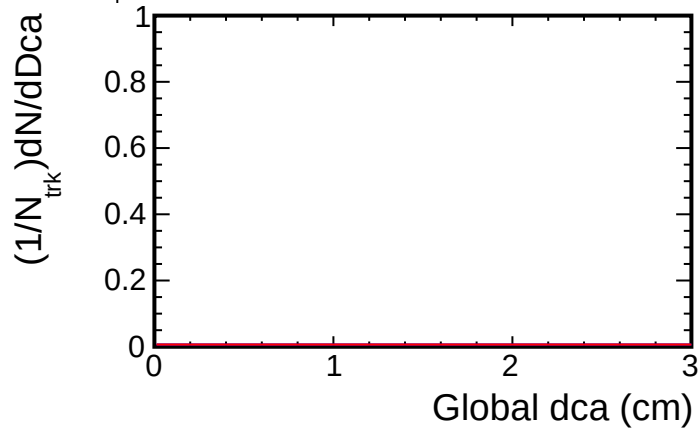
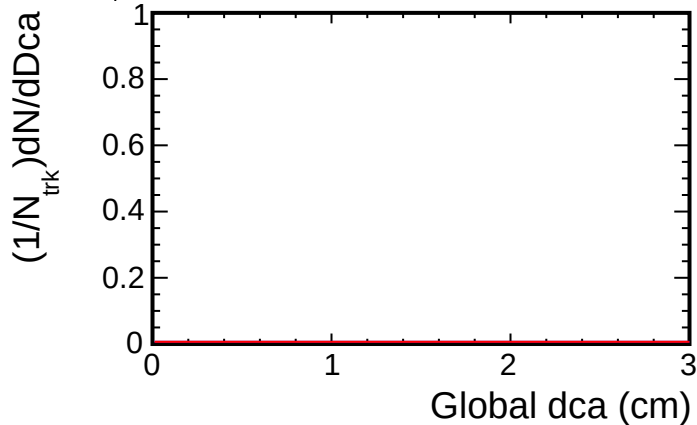
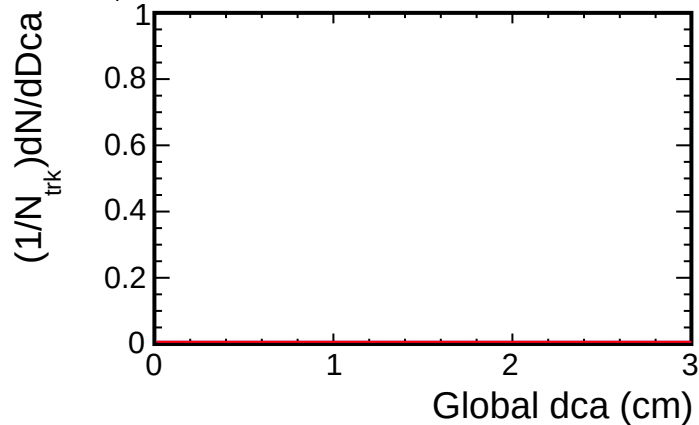
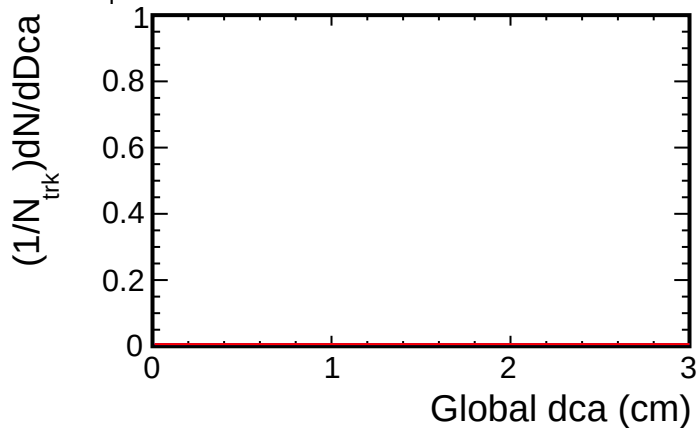
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— π^-
(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)

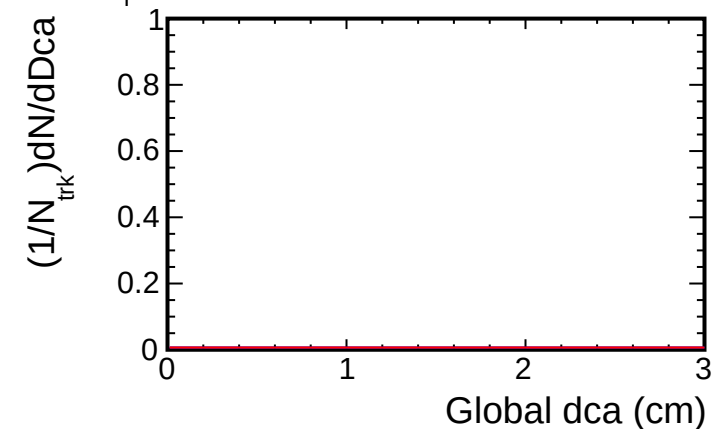
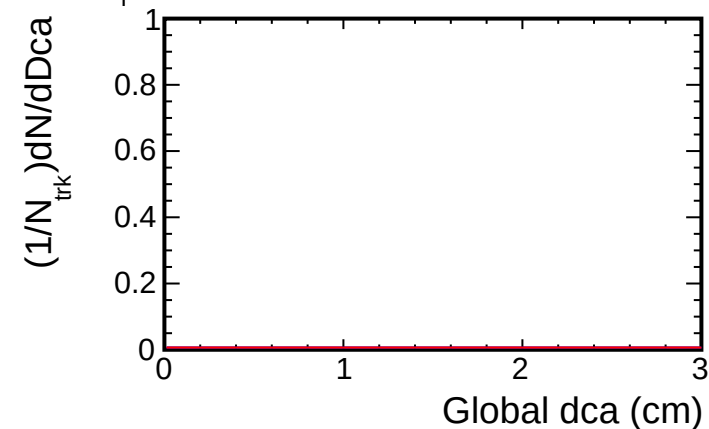
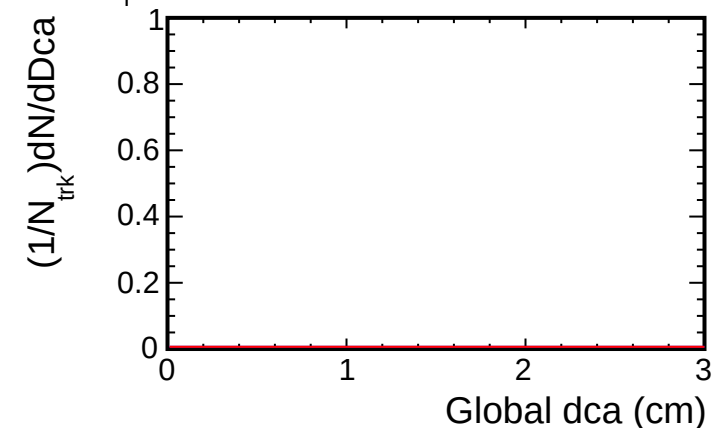
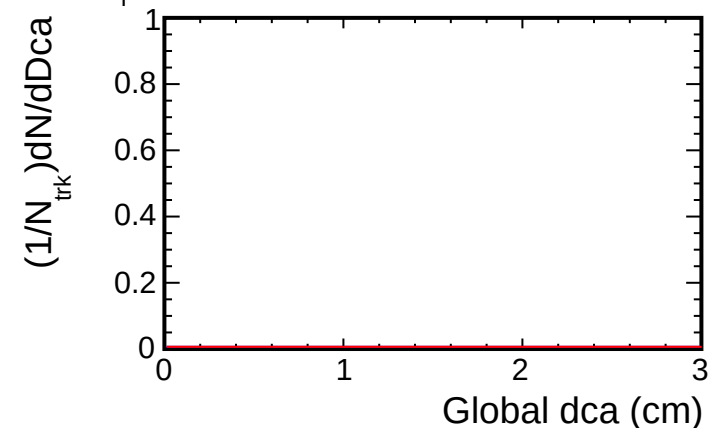
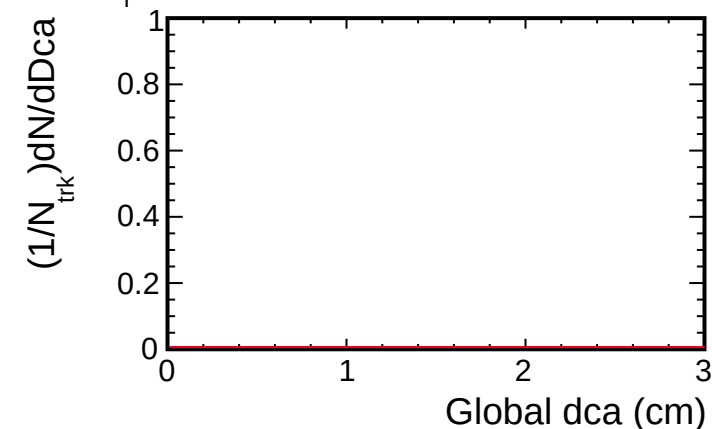
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

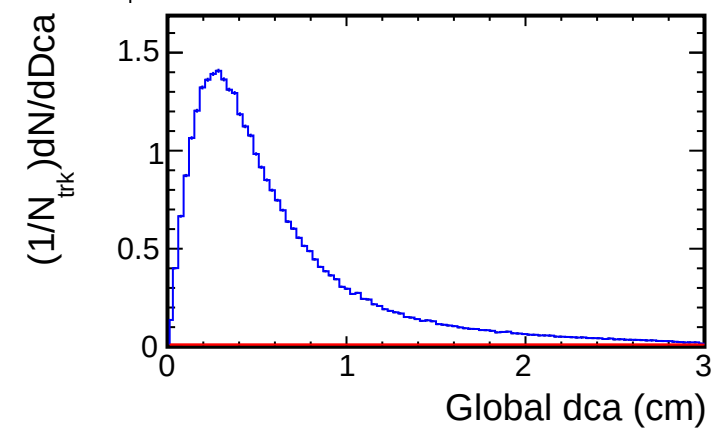
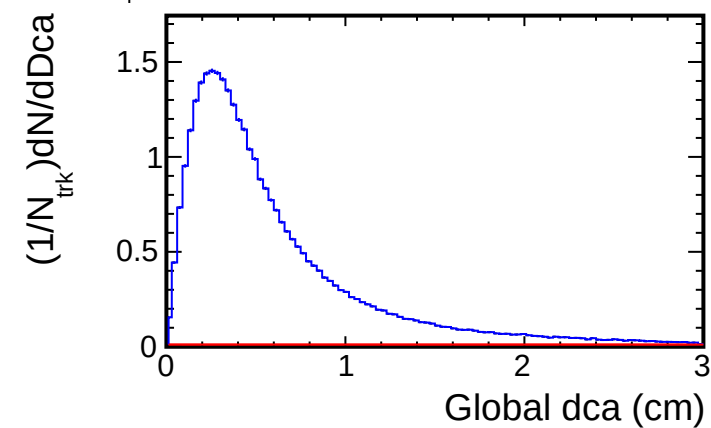
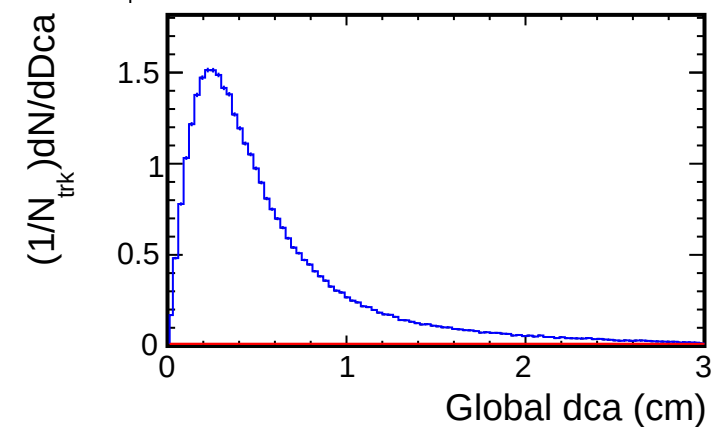
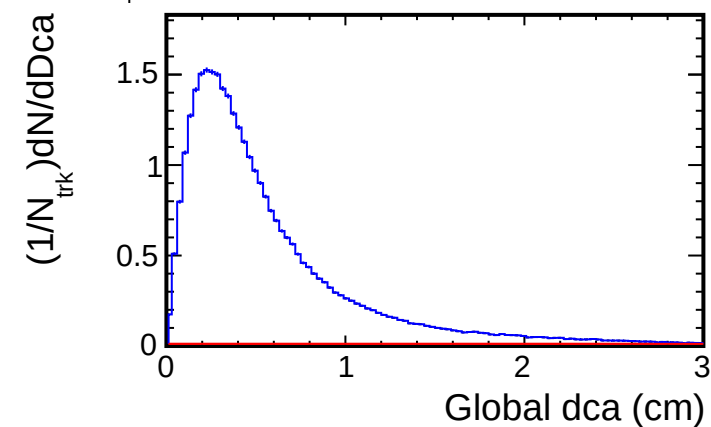
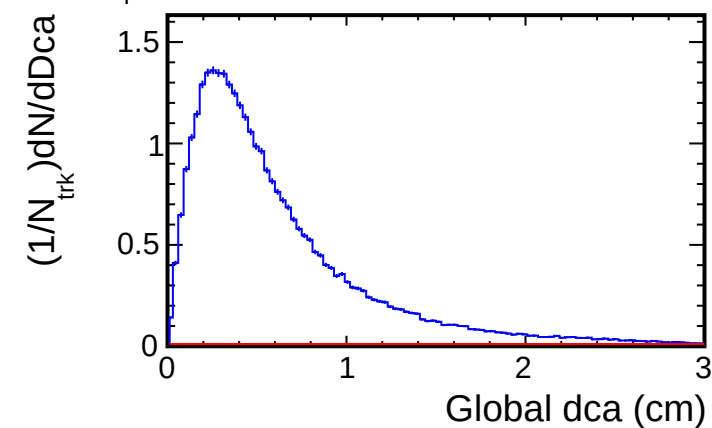
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

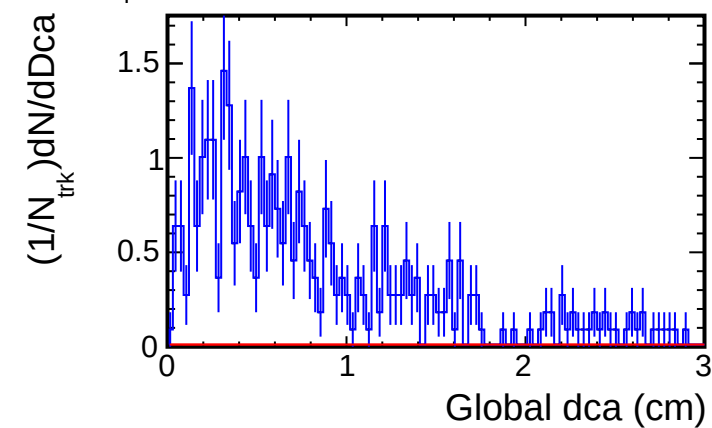
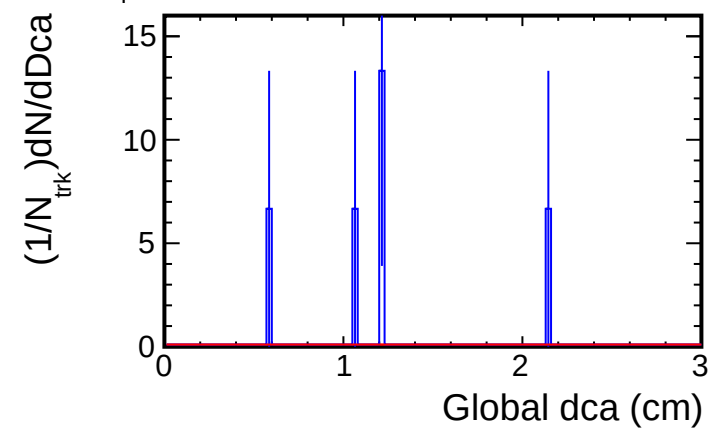
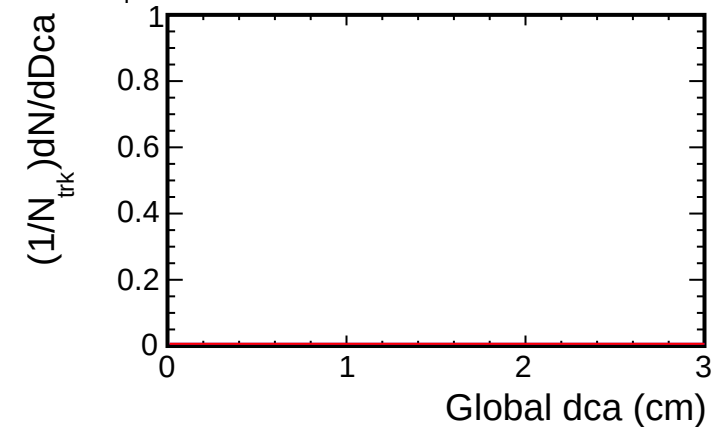
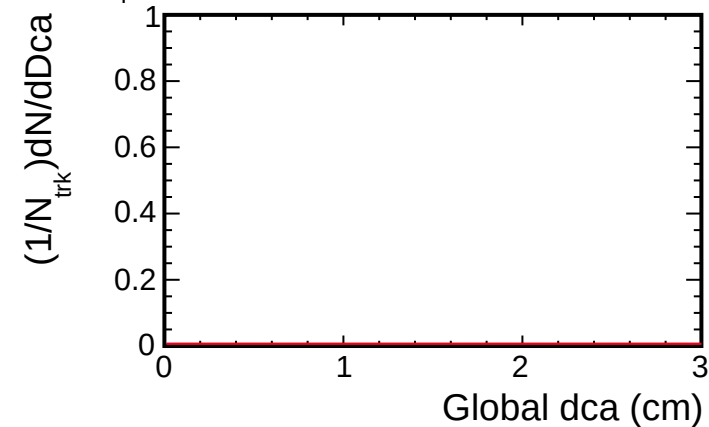
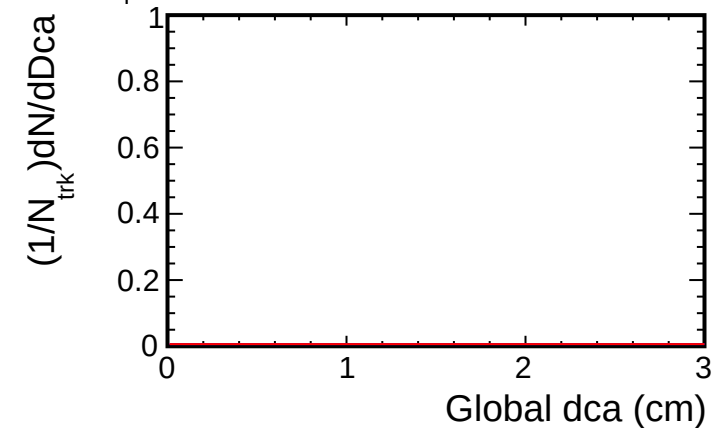
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

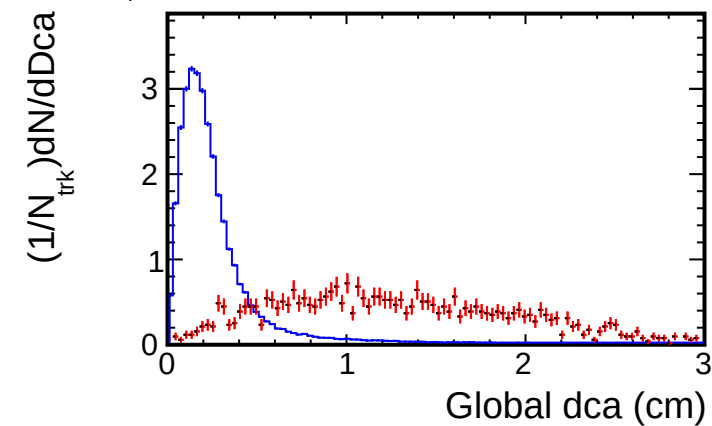
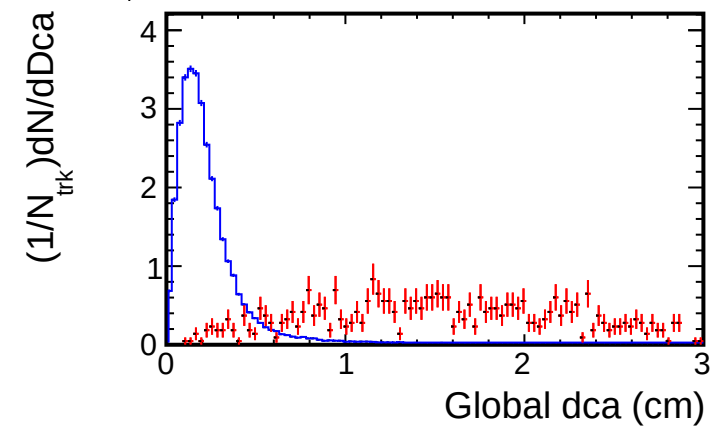
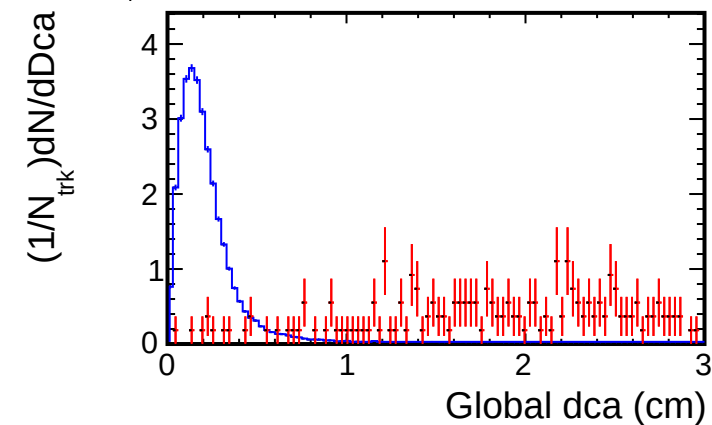
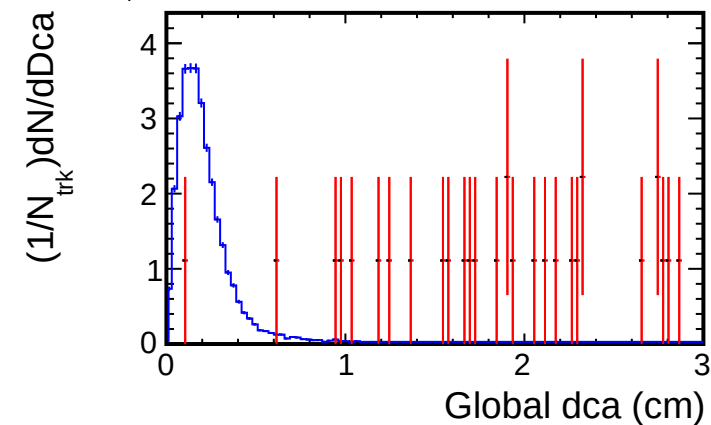
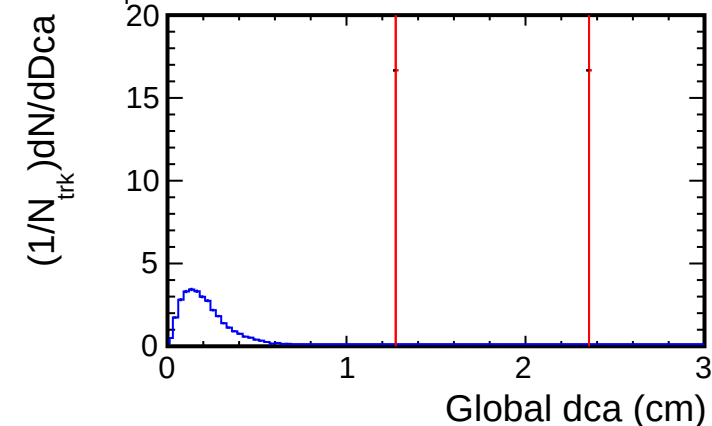
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

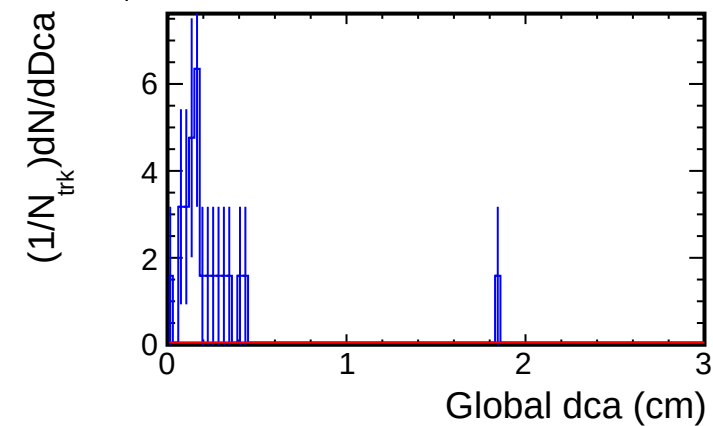
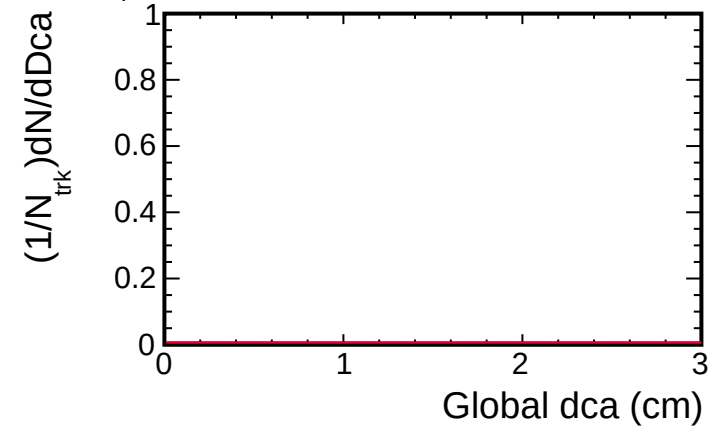
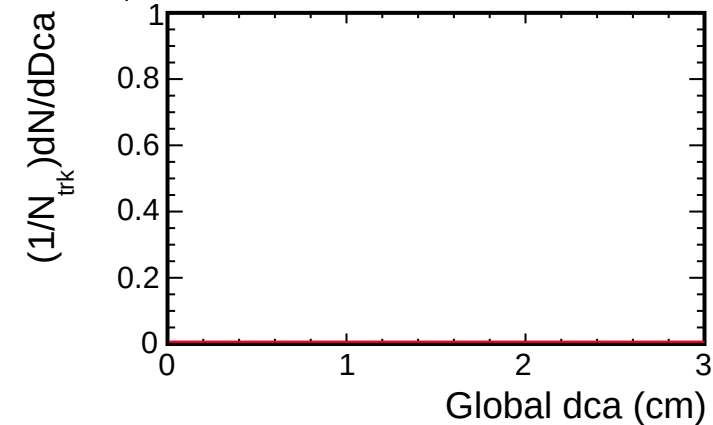
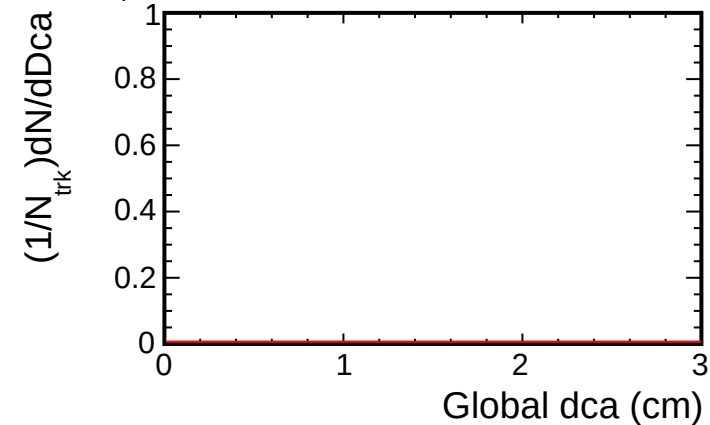
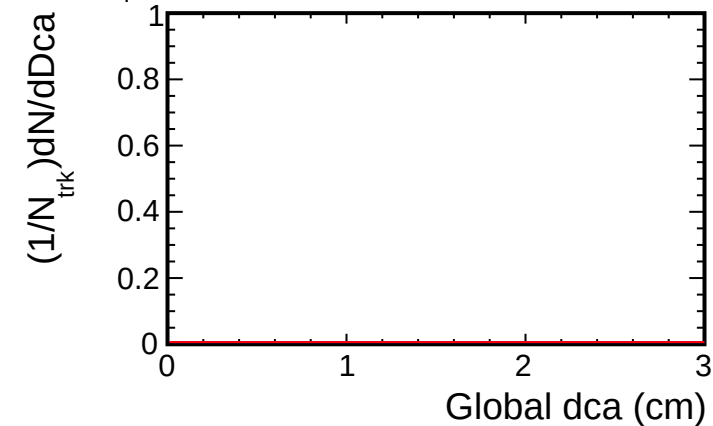
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

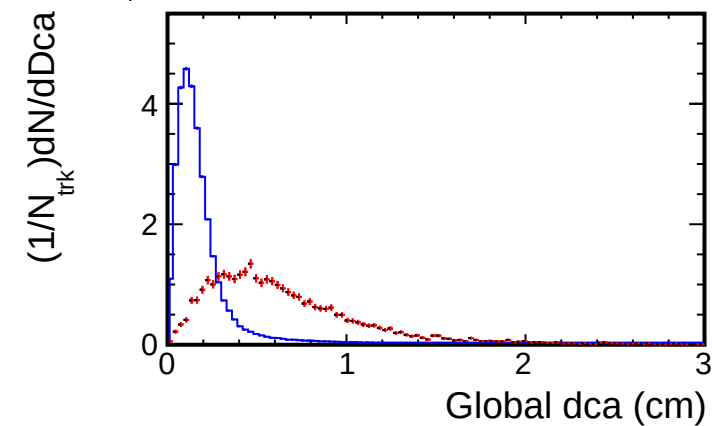
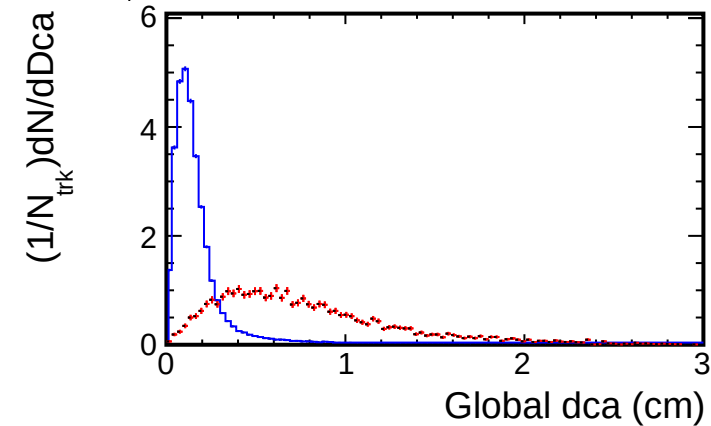
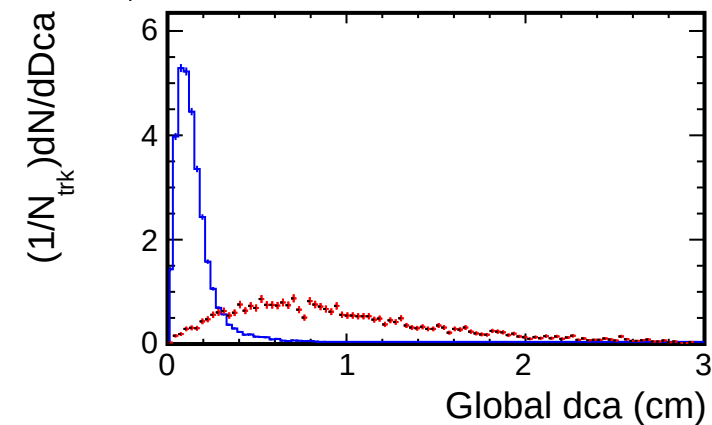
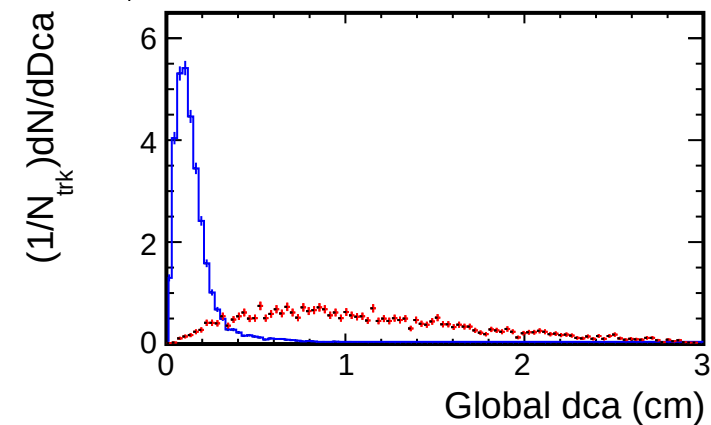
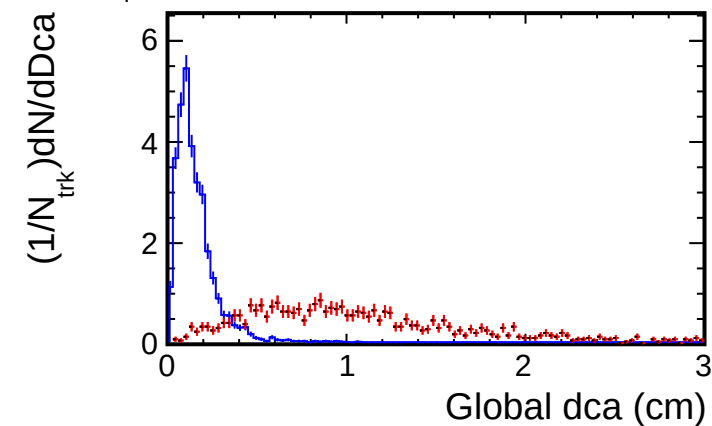
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

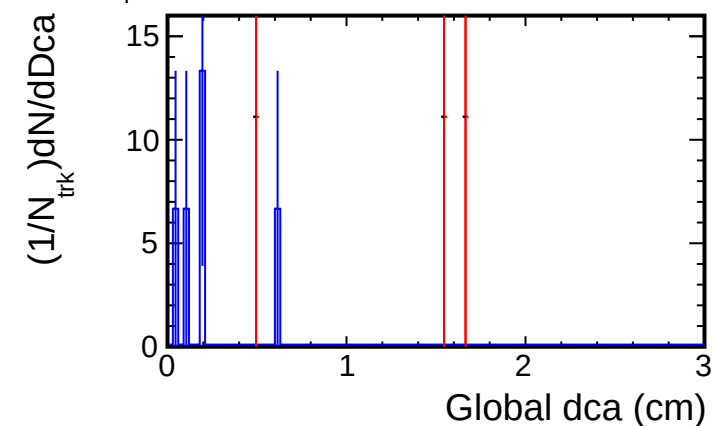
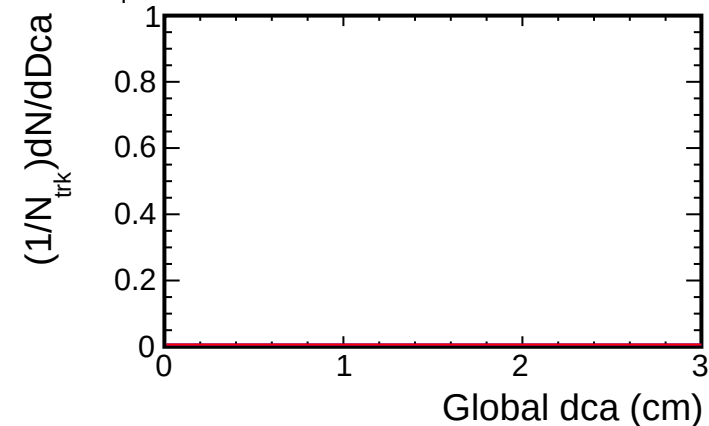
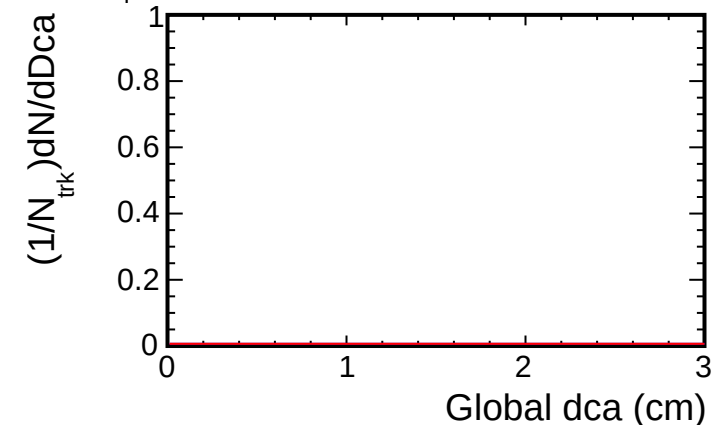
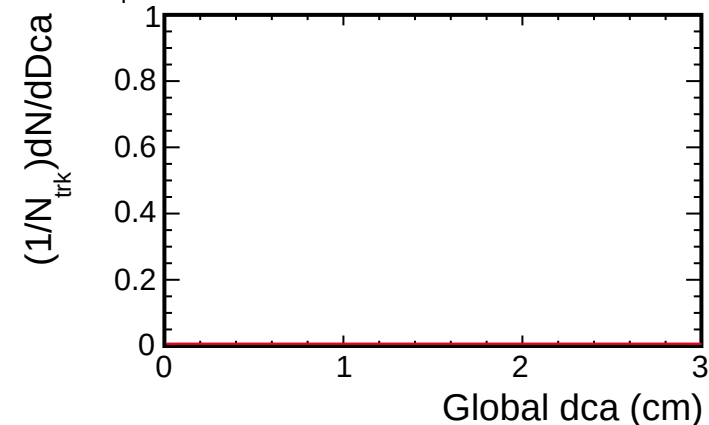
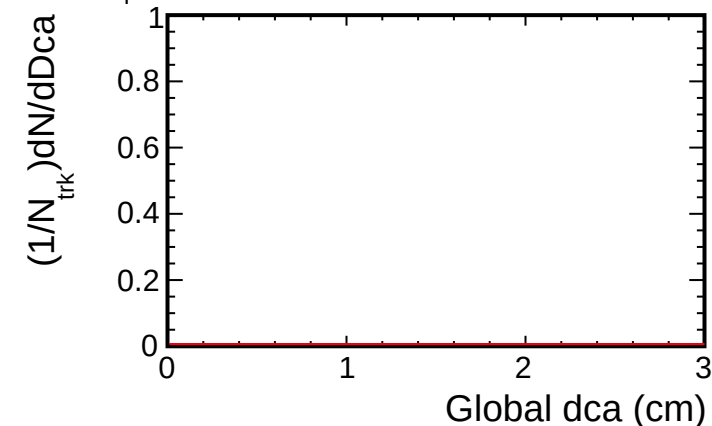
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

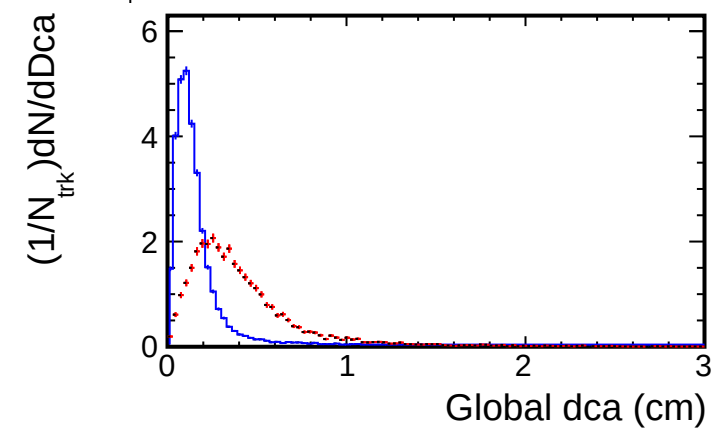
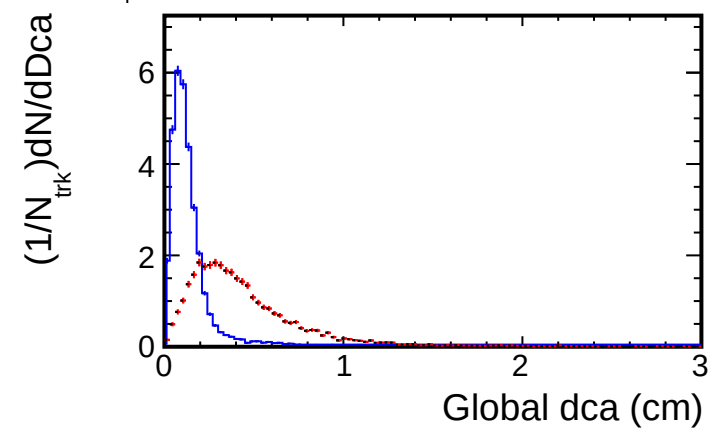
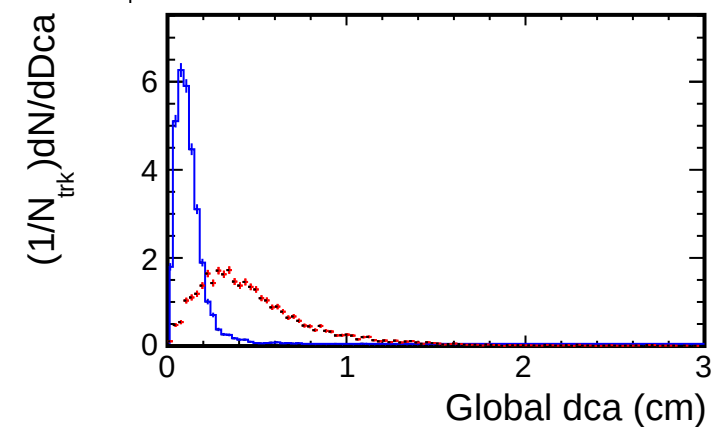
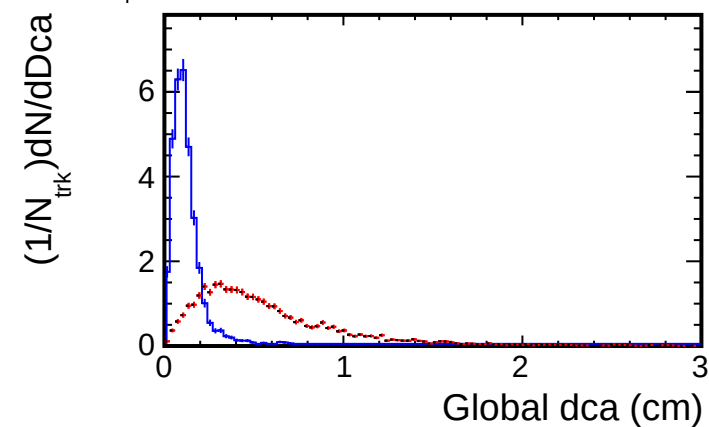
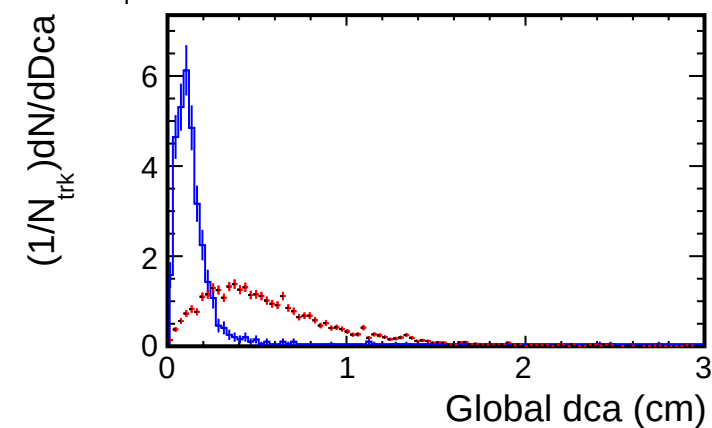
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

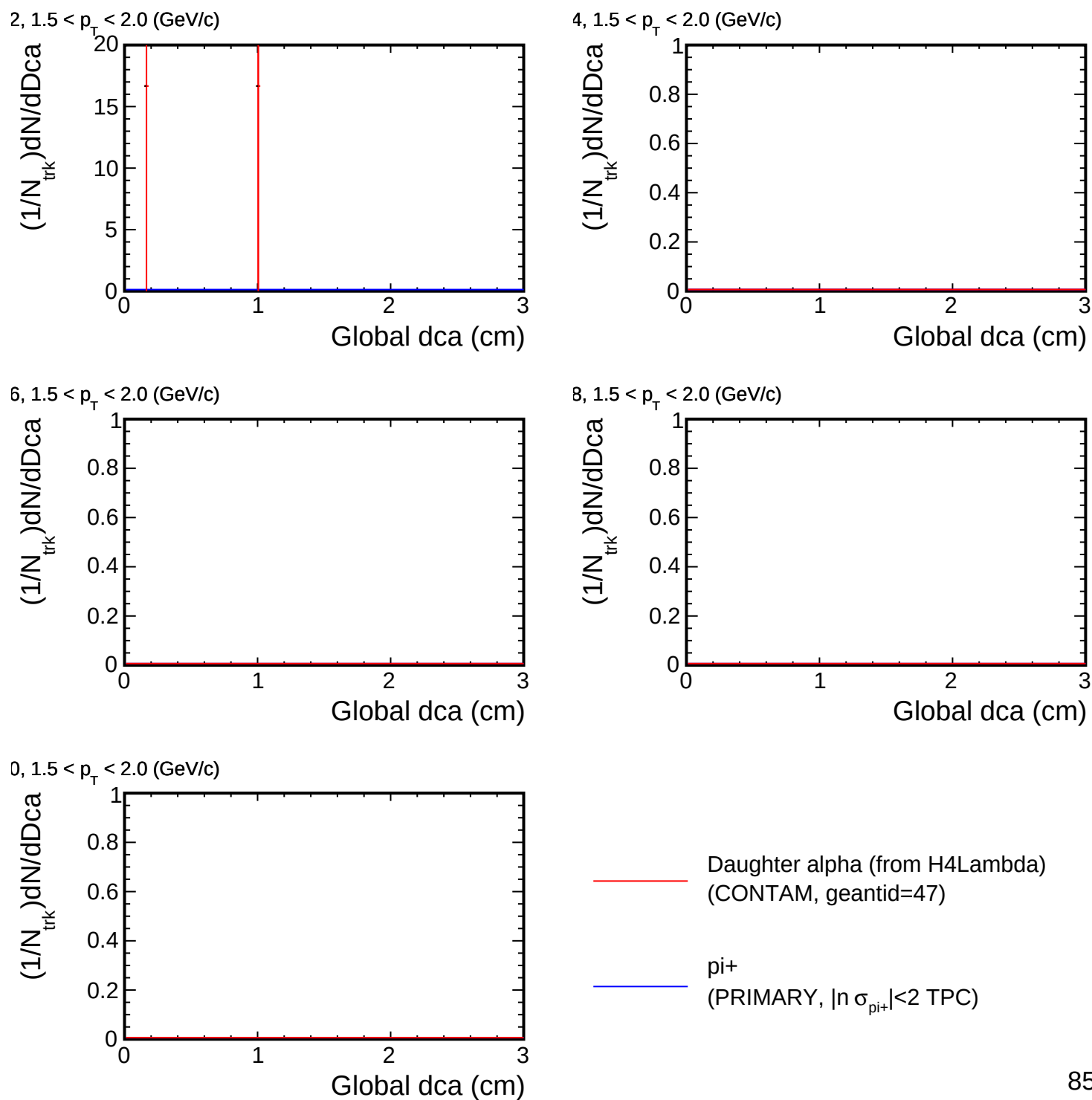
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

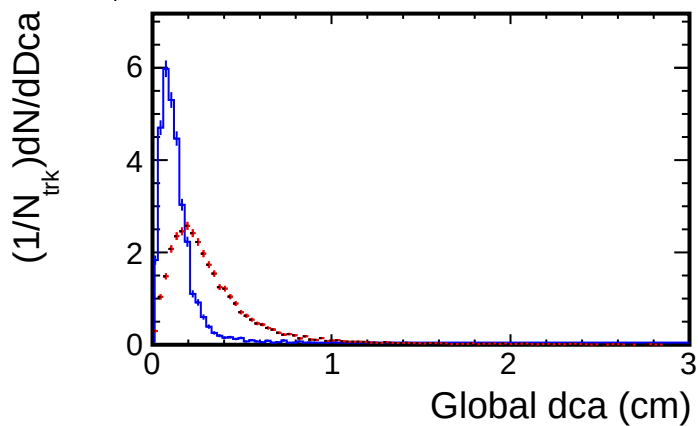
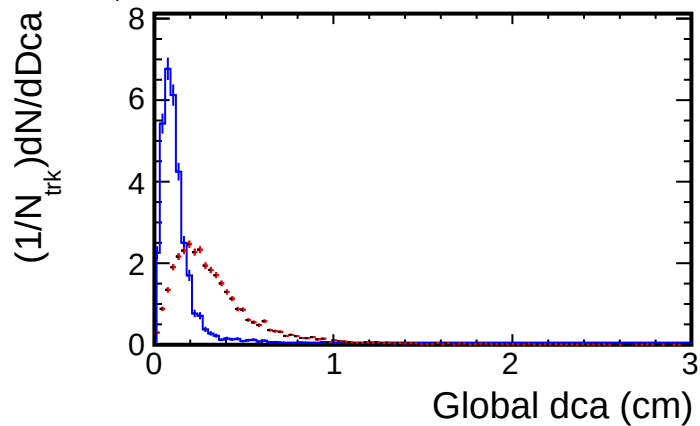
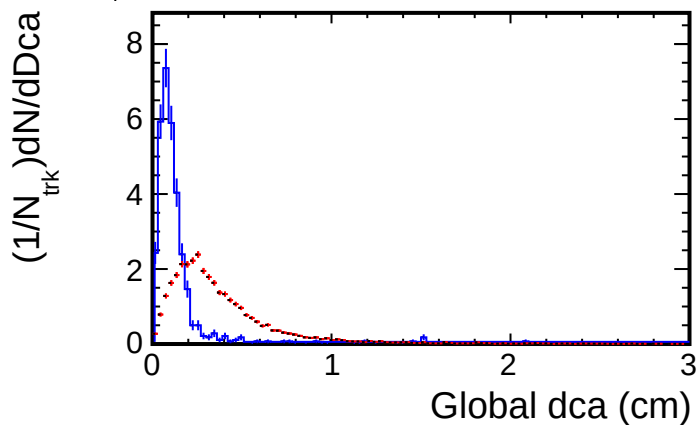
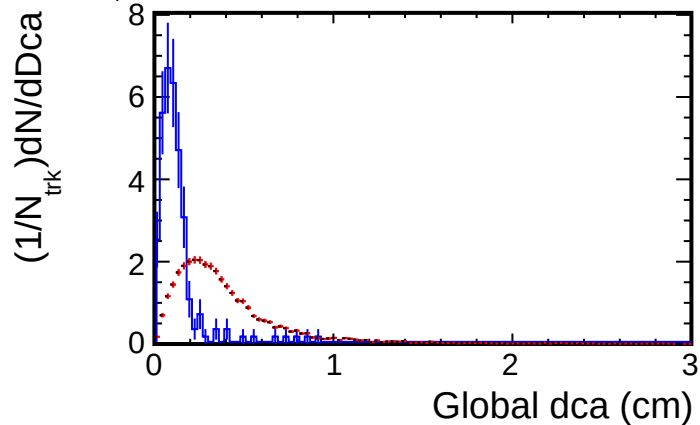
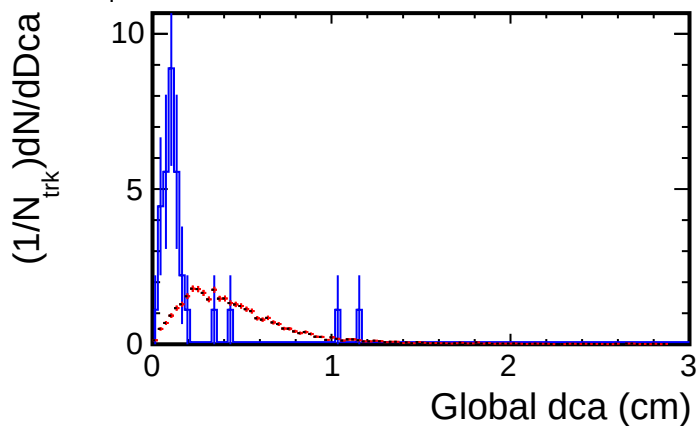
— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ TPC)

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)

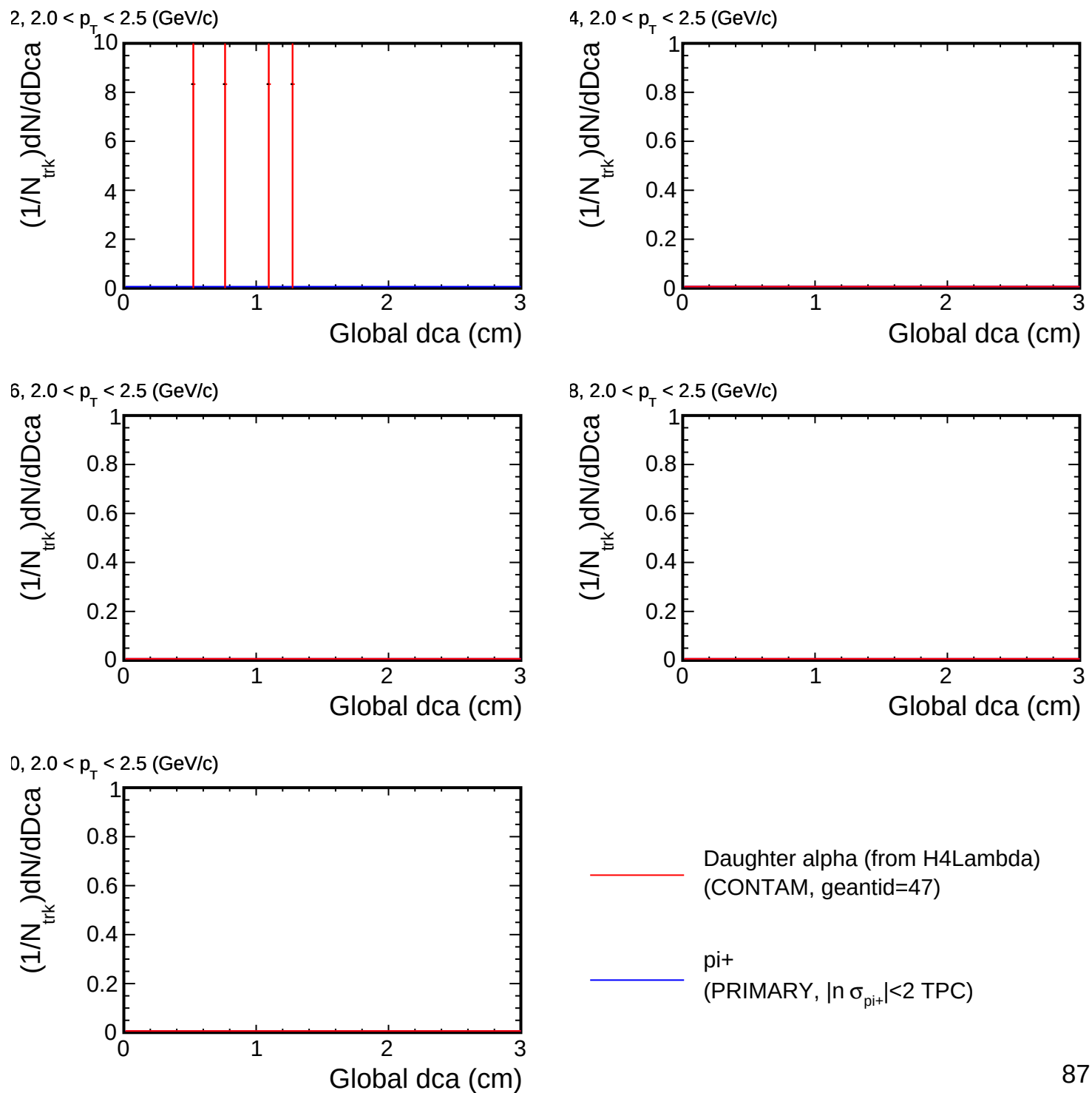
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

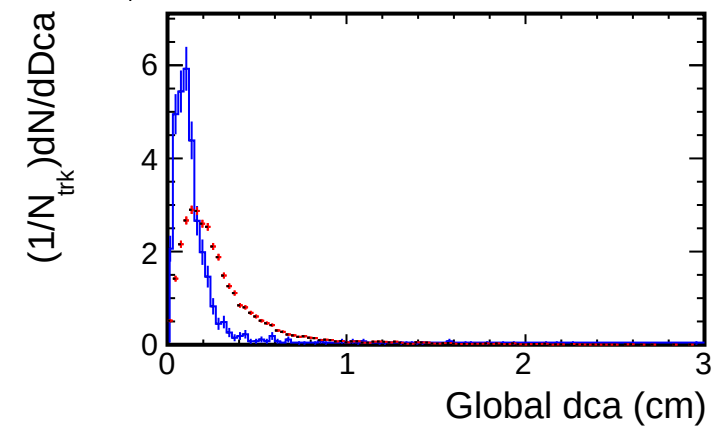
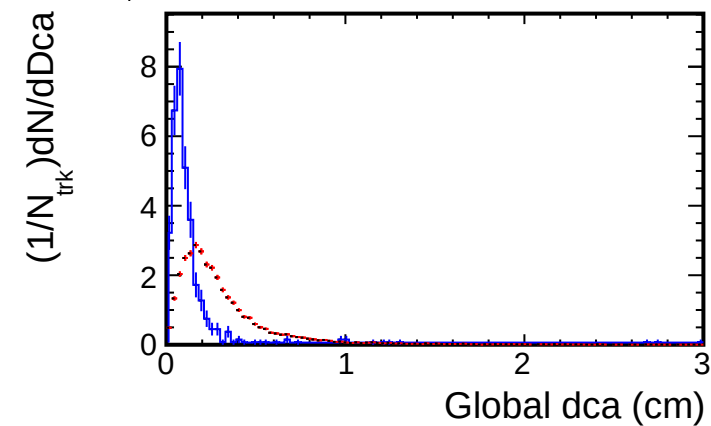
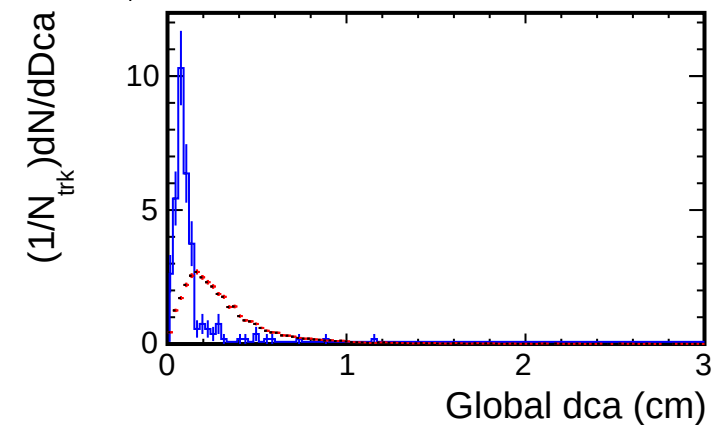
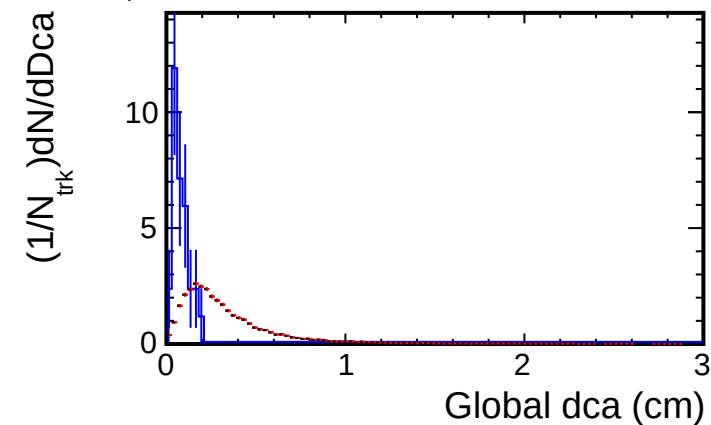
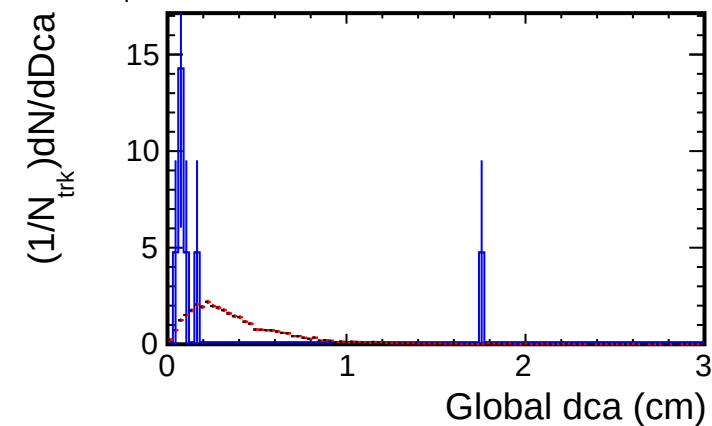
Dca distribution for (p_T , η) slices

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)

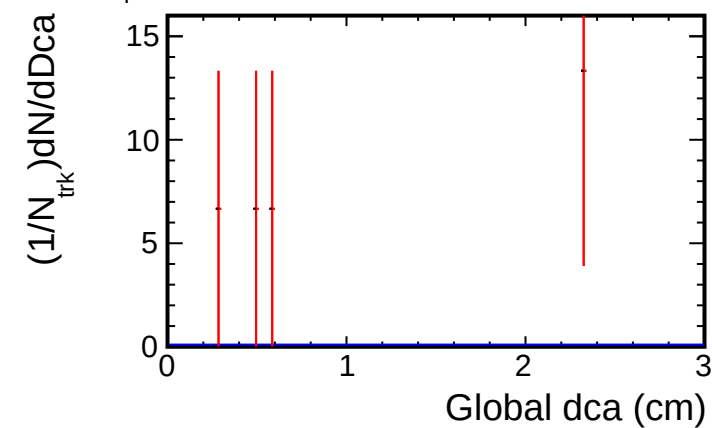
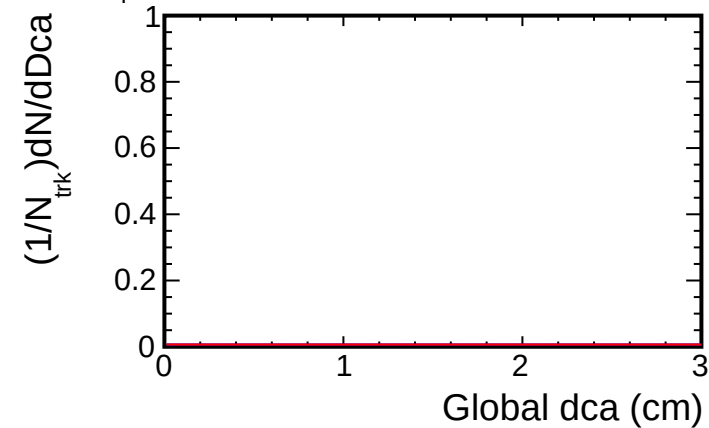
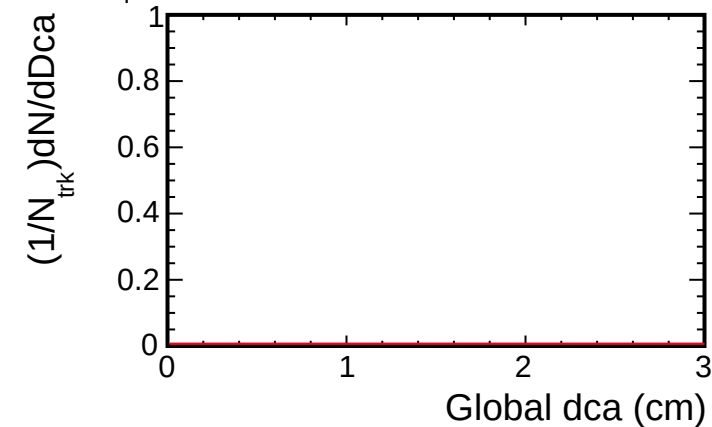
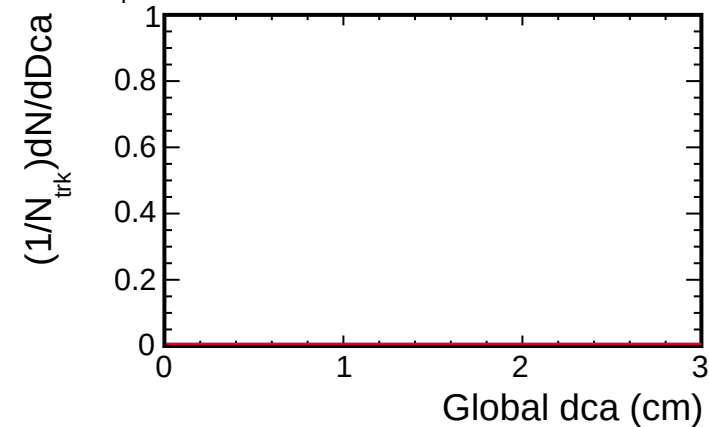
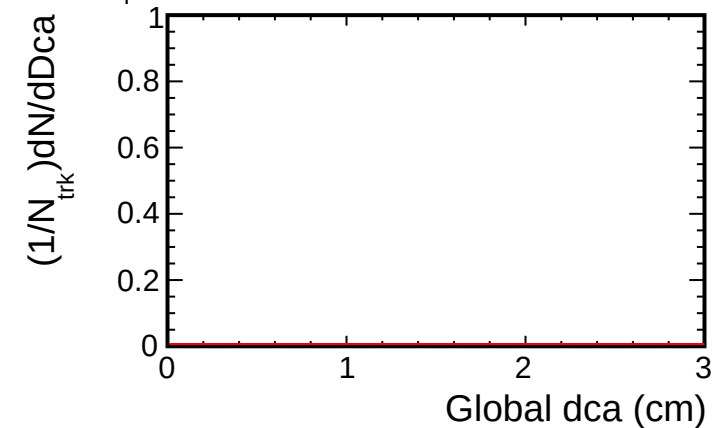
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

Dca 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)

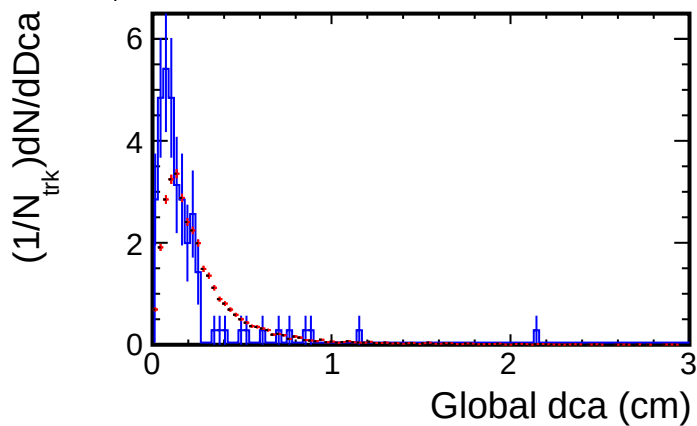
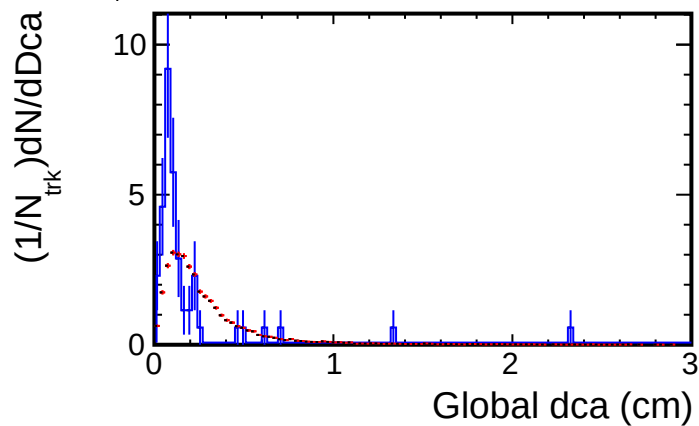
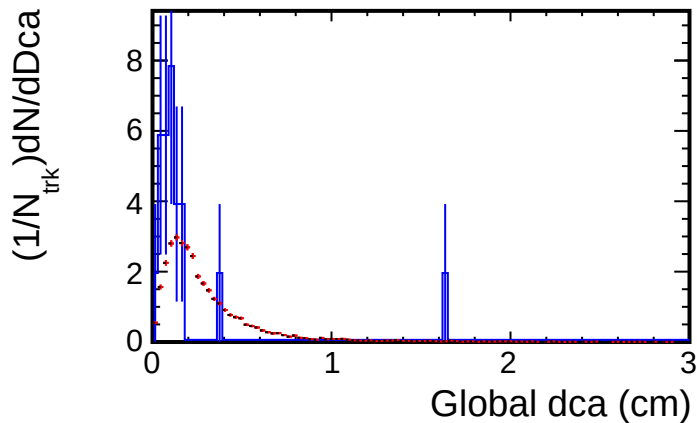
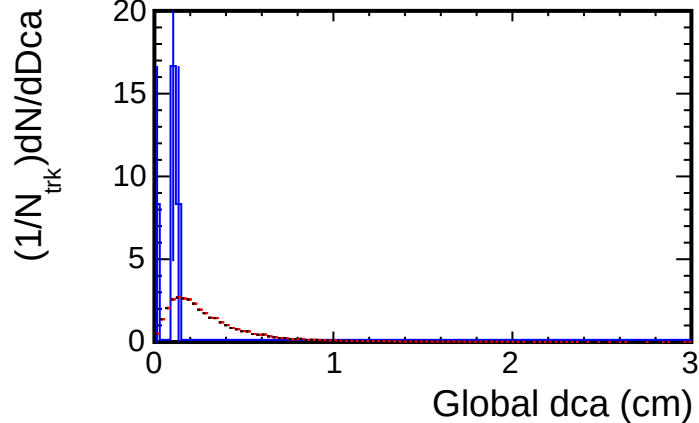
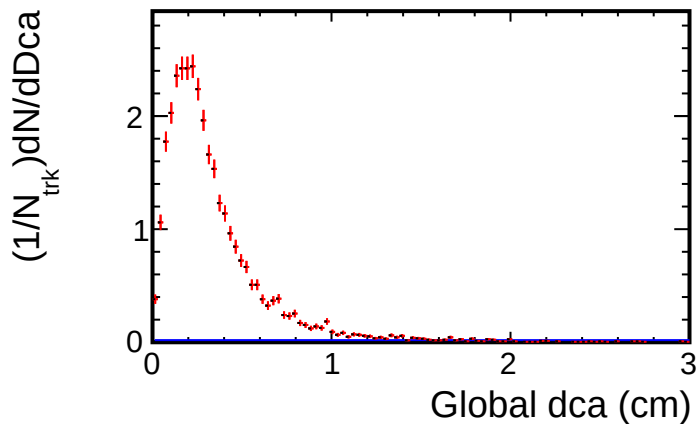
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

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)

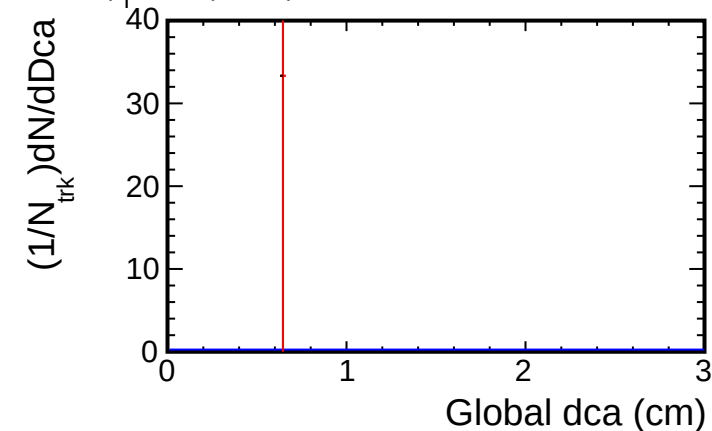
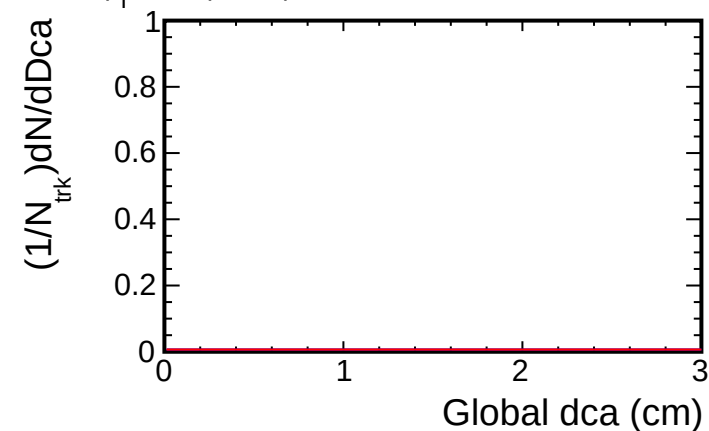
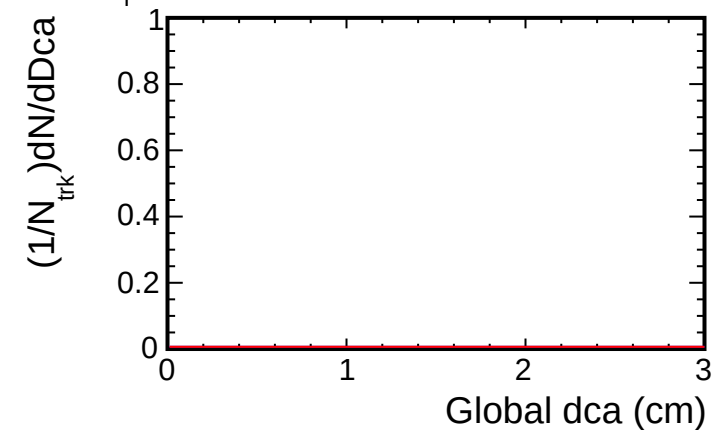
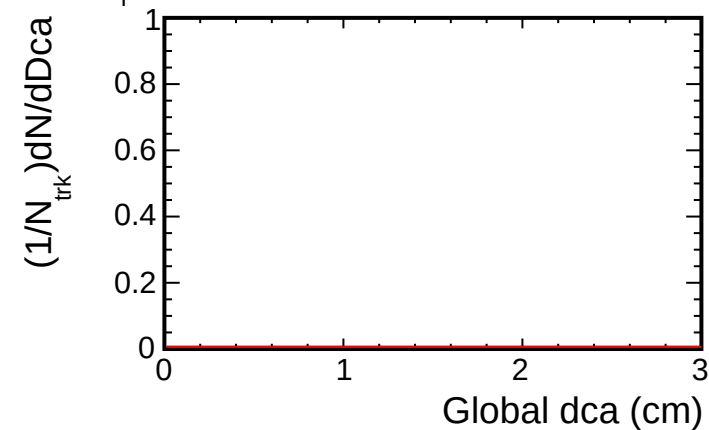
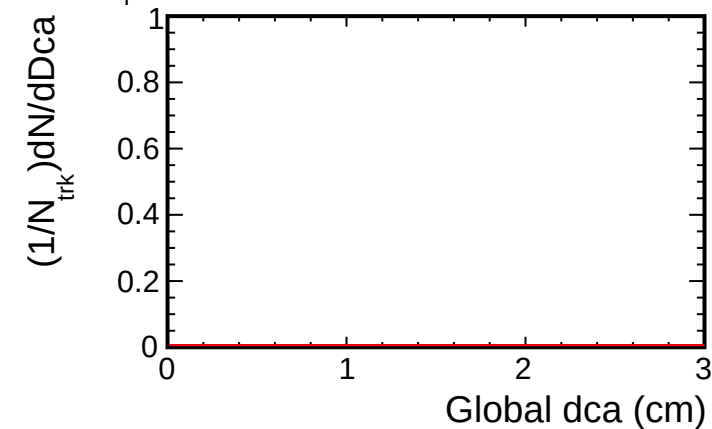
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

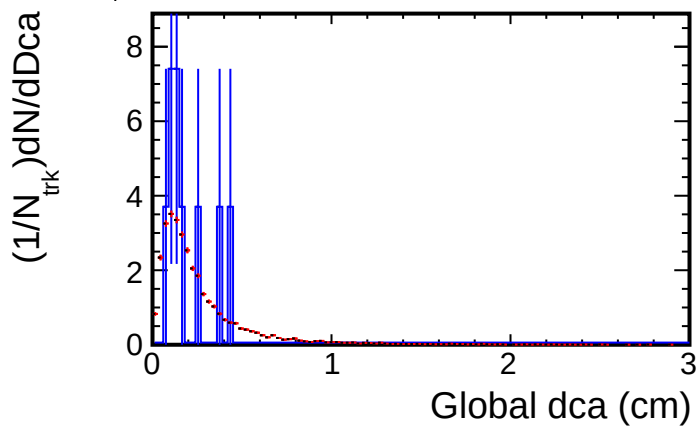
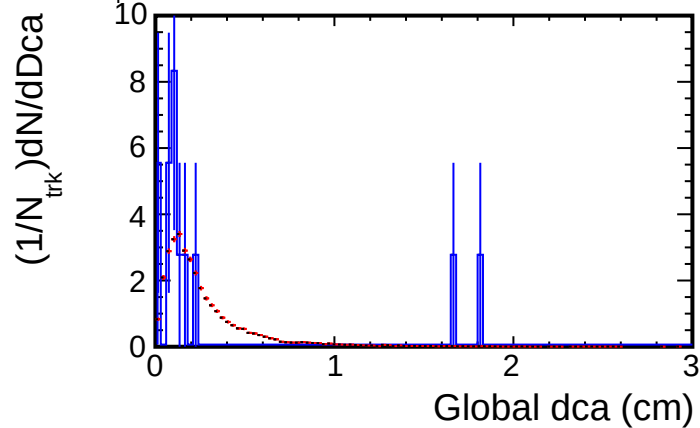
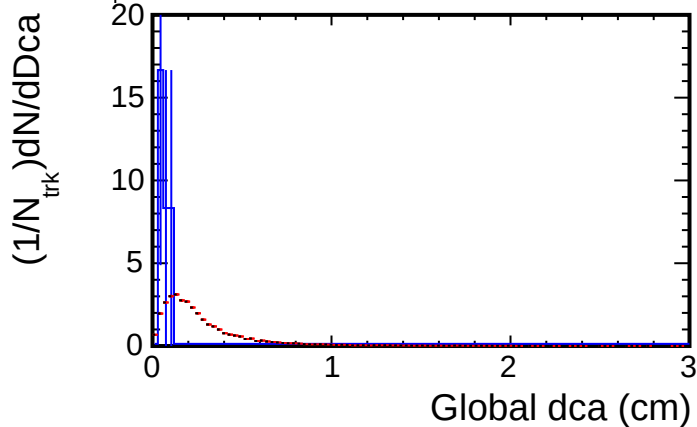
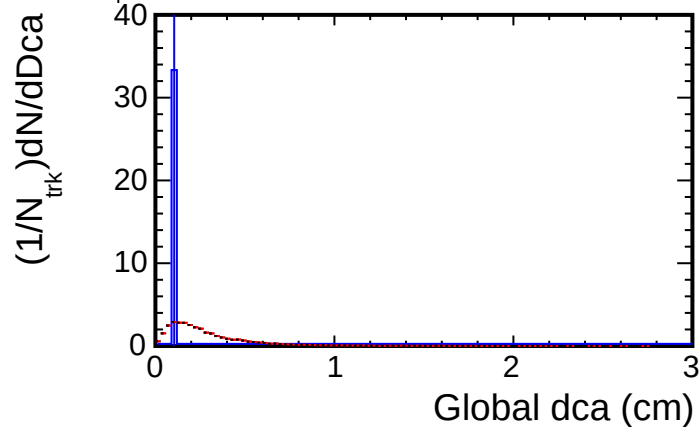
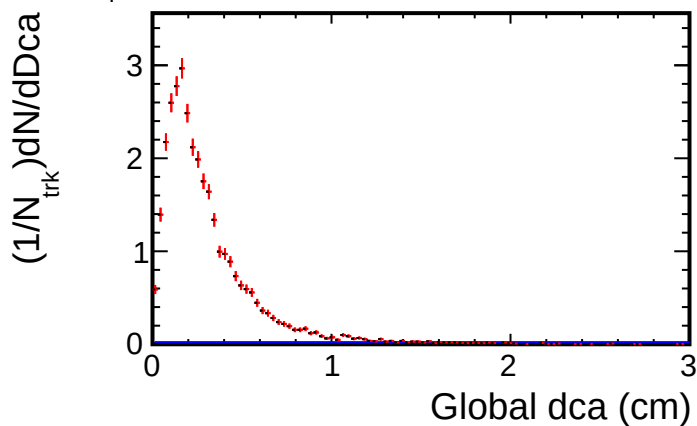
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

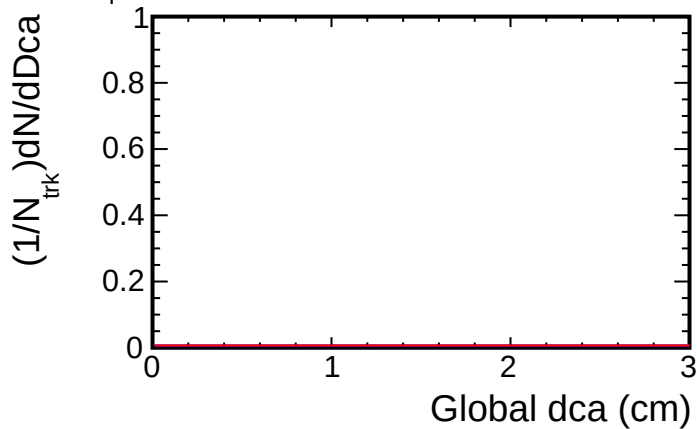
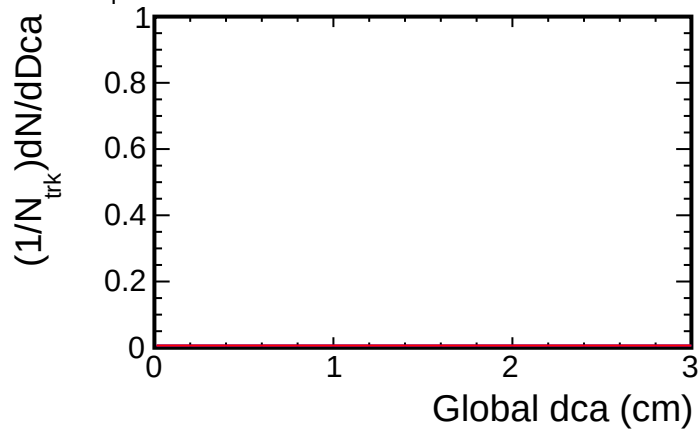
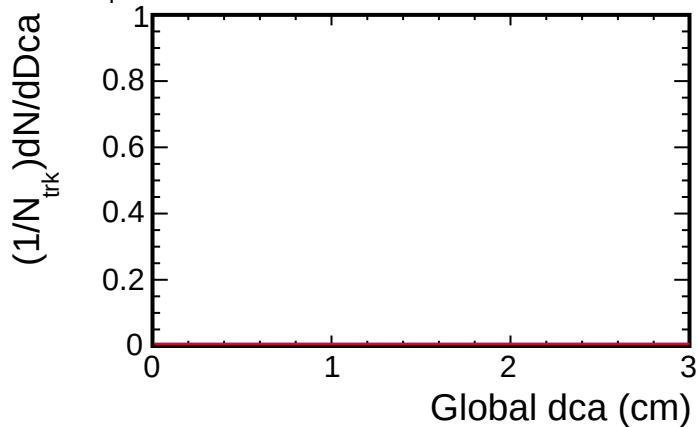
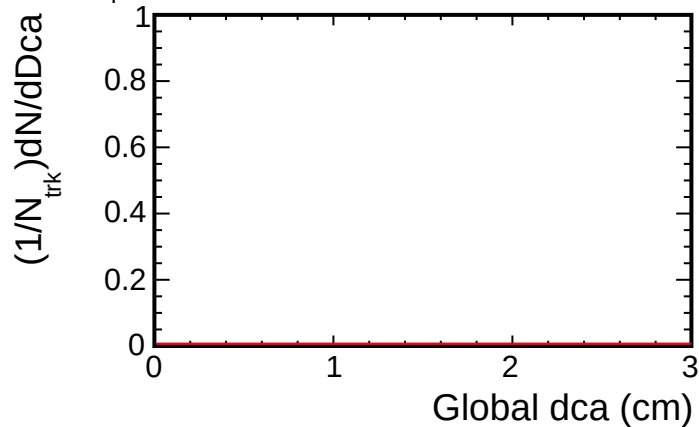
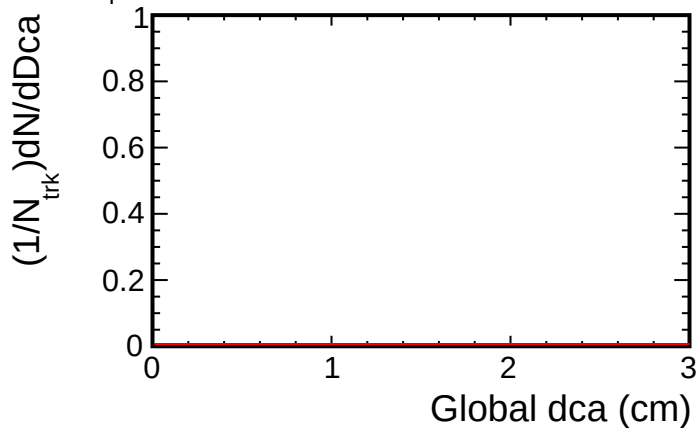
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Dca distribution for (p_T , η) slices $1.8, 3.5 < p_T < 4.0$ (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)

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

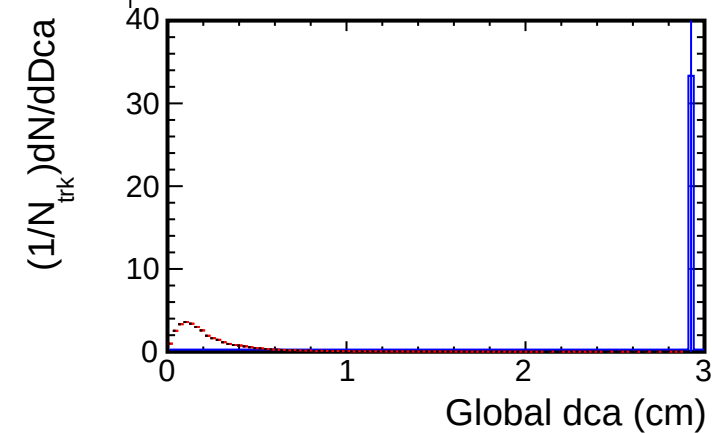
Dca distribution for (p_T , η) slices2, $3.5 < p_T < 4.0$ (GeV/c)4, $3.5 < p_T < 4.0$ (GeV/c)6, $3.5 < p_T < 4.0$ (GeV/c)8, $3.5 < p_T < 4.0$ (GeV/c)0, $3.5 < p_T < 4.0$ (GeV/c)

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

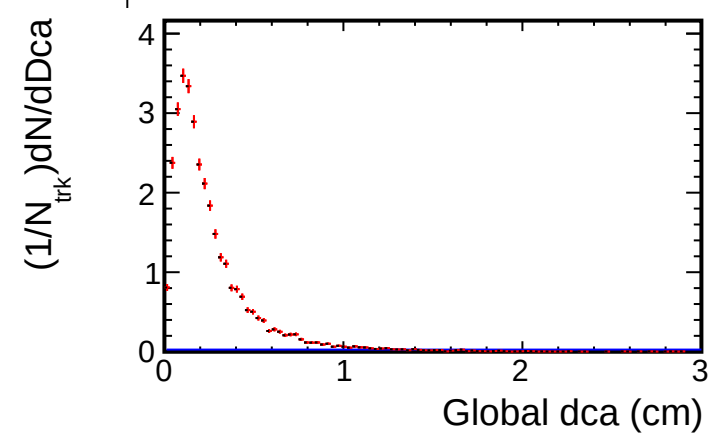
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

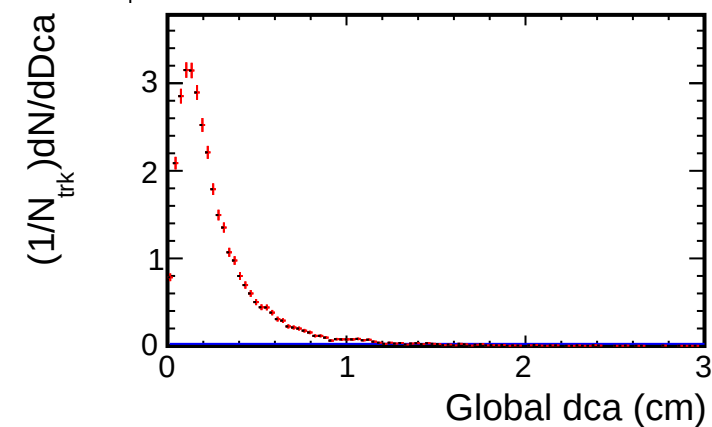
1.8, $4.0 < p_T < 4.5$ (GeV/c)



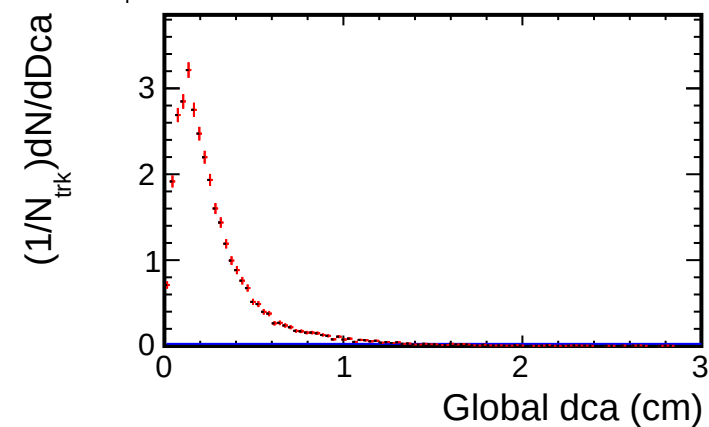
1.6, $4.0 < p_T < 4.5$ (GeV/c)



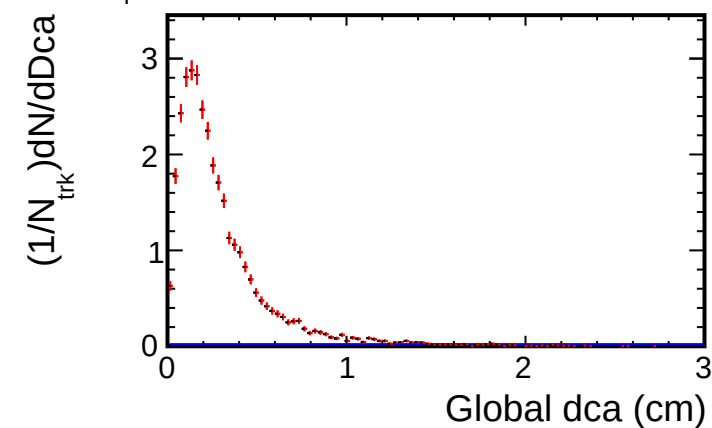
1.4, $4.0 < p_T < 4.5$ (GeV/c)



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

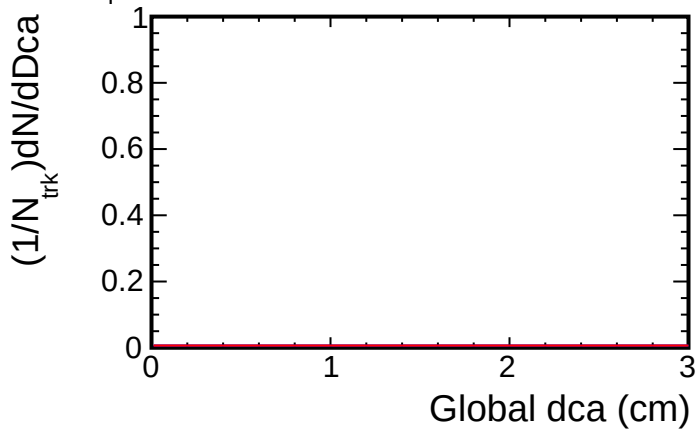
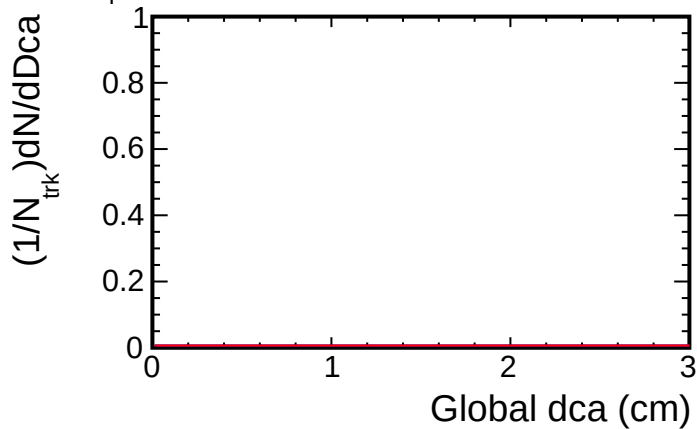
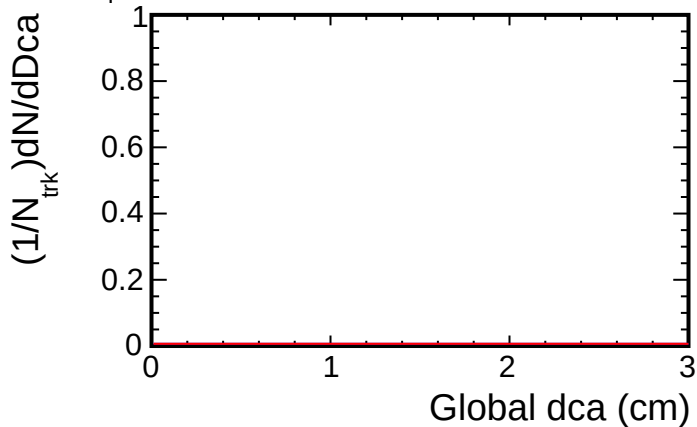
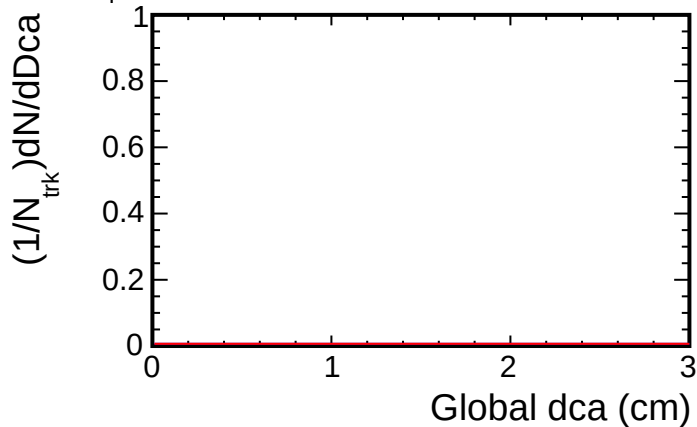
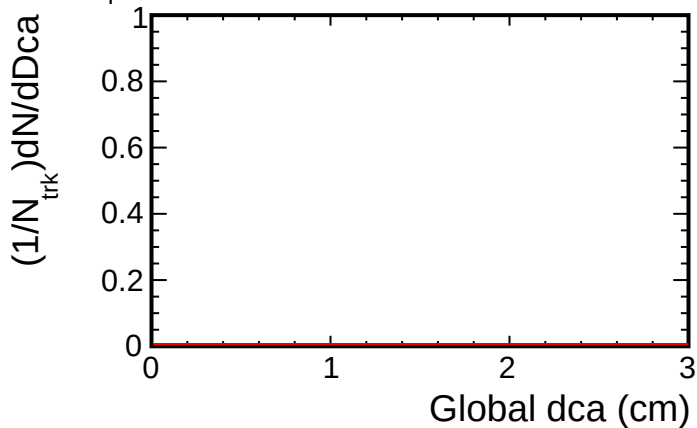


1.0, $4.0 < p_T < 4.5$ (GeV/c)



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

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

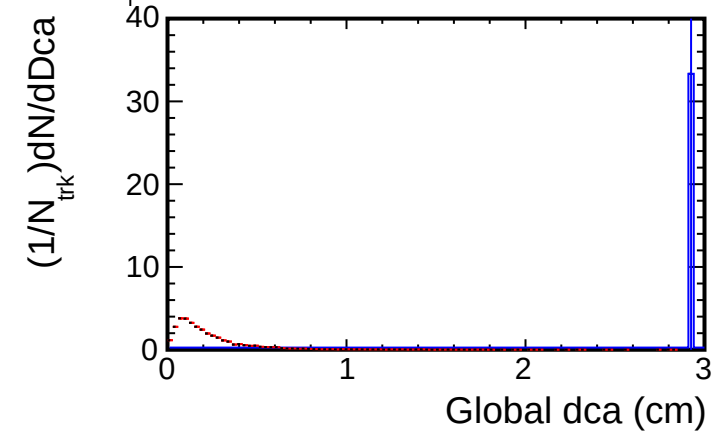
Dca distribution for (p_T , η) slices2, $4.0 < p_T < 4.5$ (GeV/c)4, $4.0 < p_T < 4.5$ (GeV/c)6, $4.0 < p_T < 4.5$ (GeV/c)8, $4.0 < p_T < 4.5$ (GeV/c)0, $4.0 < p_T < 4.5$ (GeV/c)

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

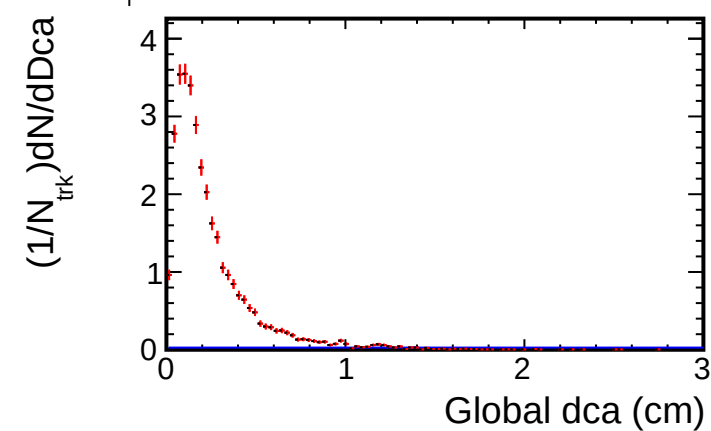
— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ TPC)

Dca distribution for (p_T , η) slices

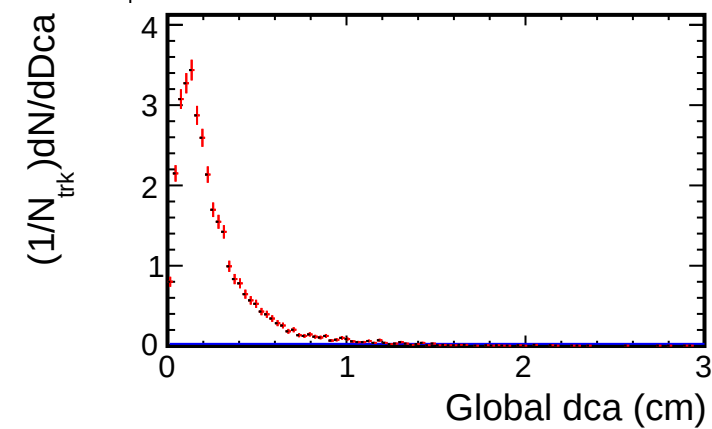
1.8, $4.5 < p_T < 5.0$ (GeV/c)



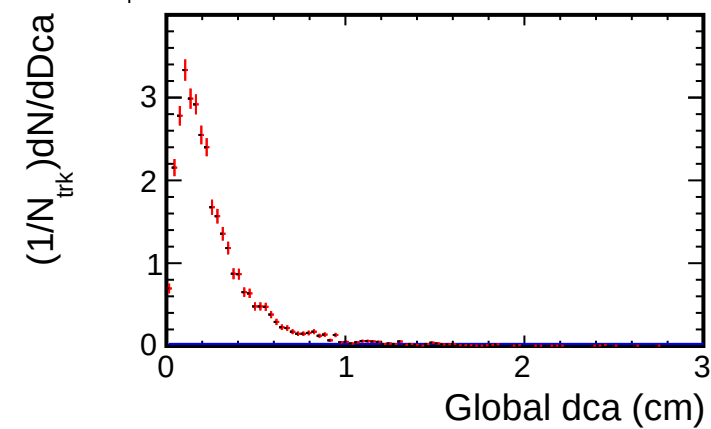
1.6, $4.5 < p_T < 5.0$ (GeV/c)



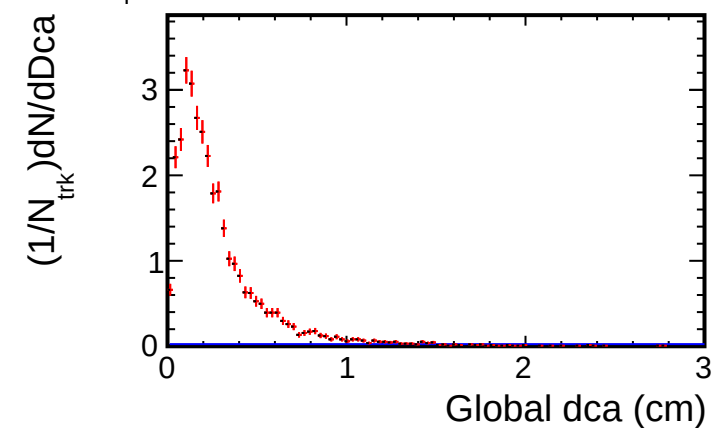
1.4, $4.5 < p_T < 5.0$ (GeV/c)



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

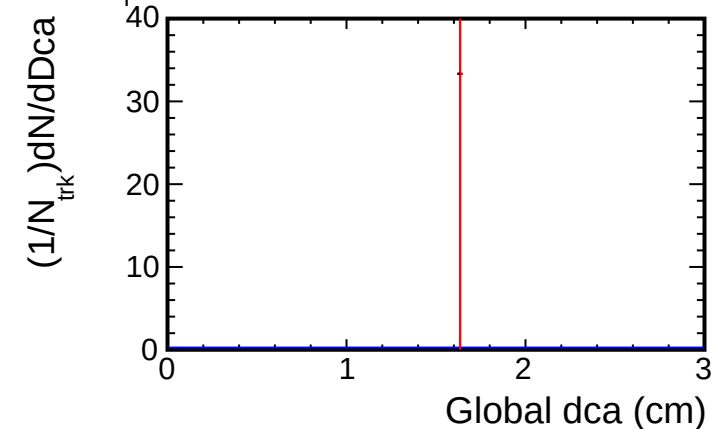
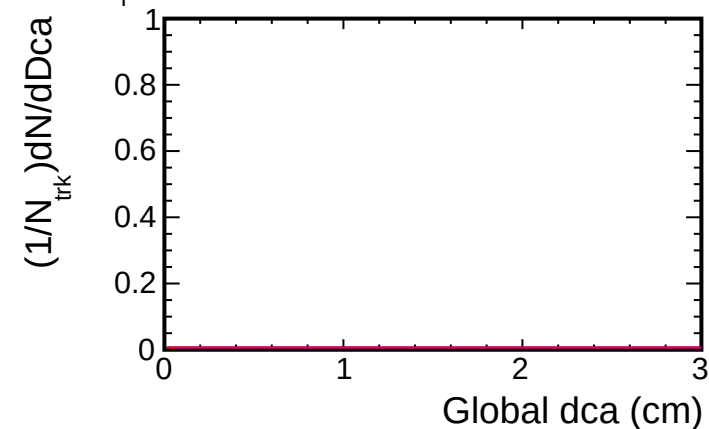
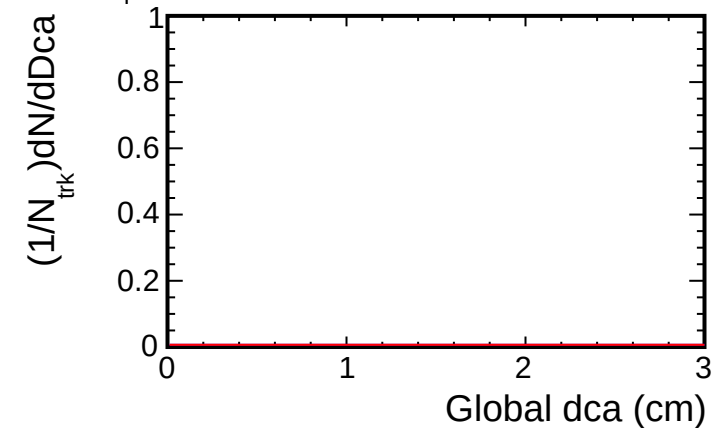
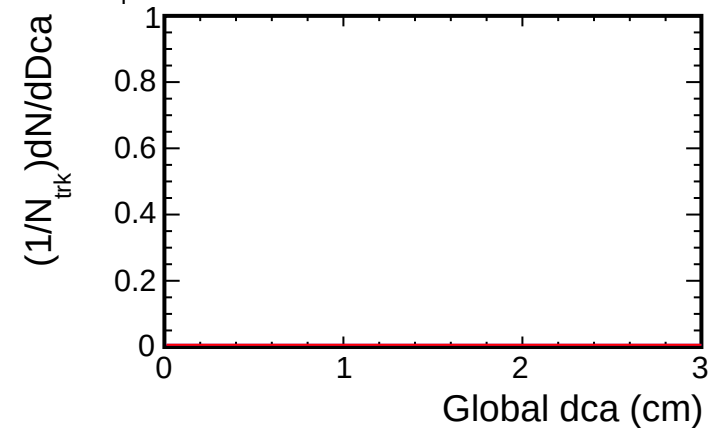
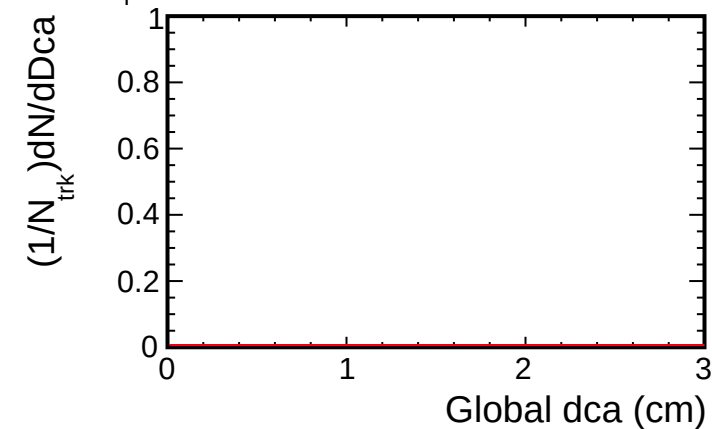


1.0, $4.5 < p_T < 5.0$ (GeV/c)



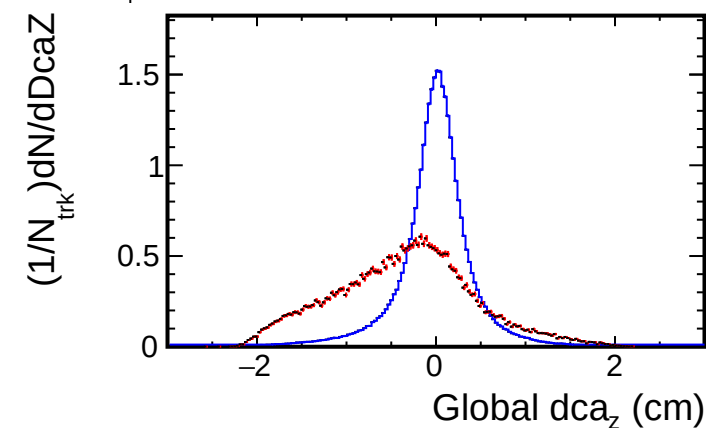
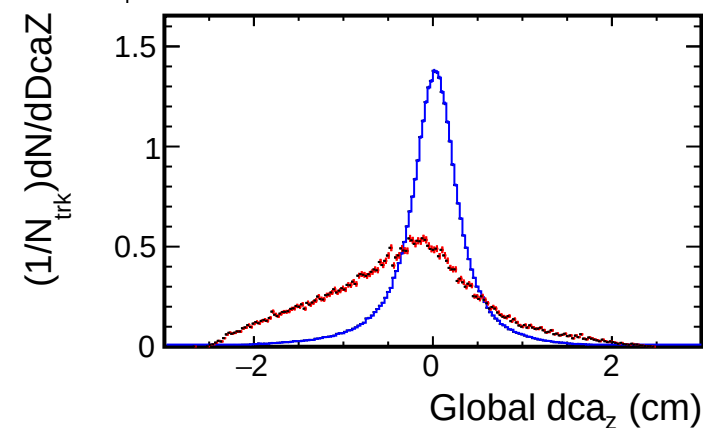
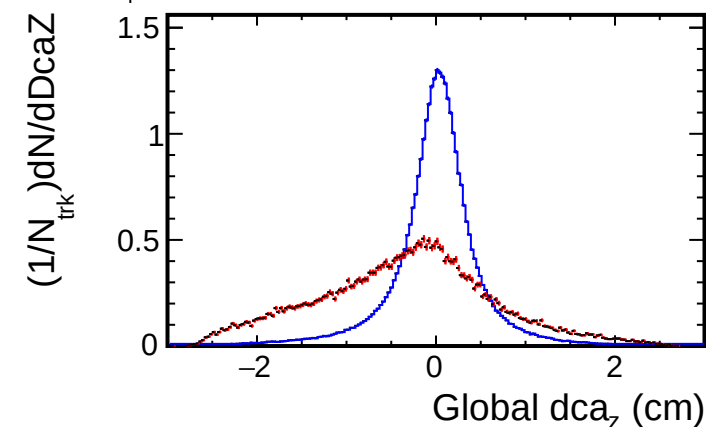
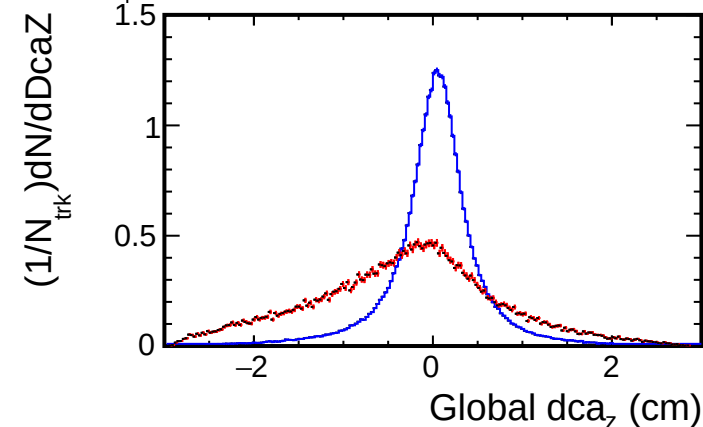
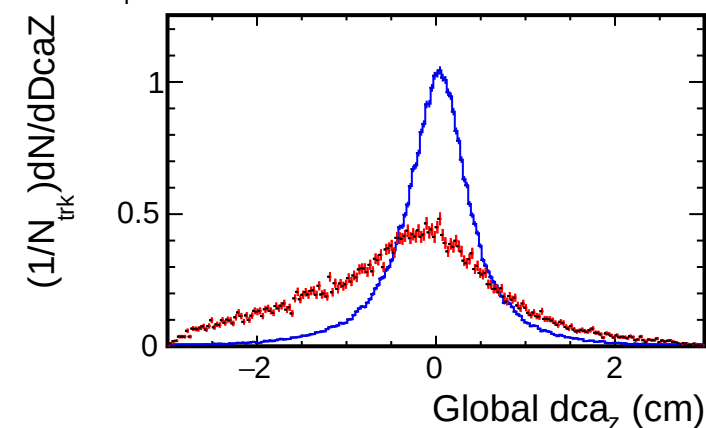
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

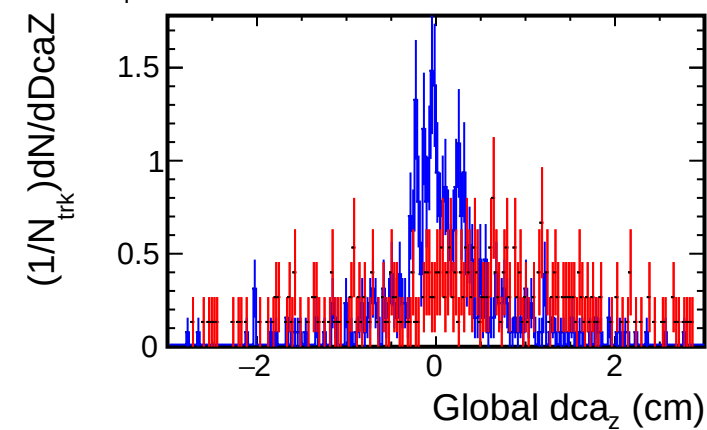
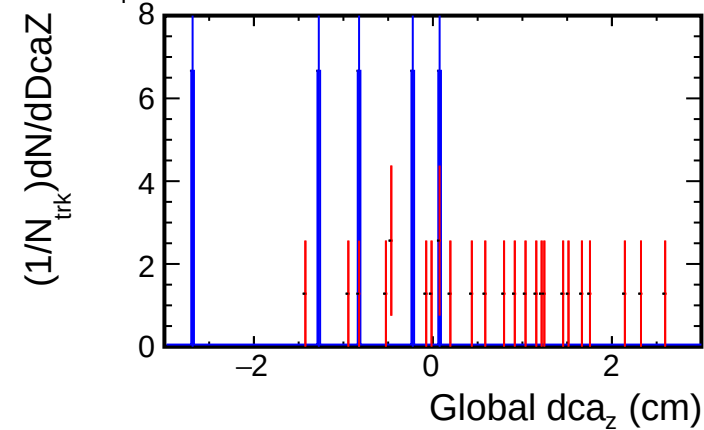
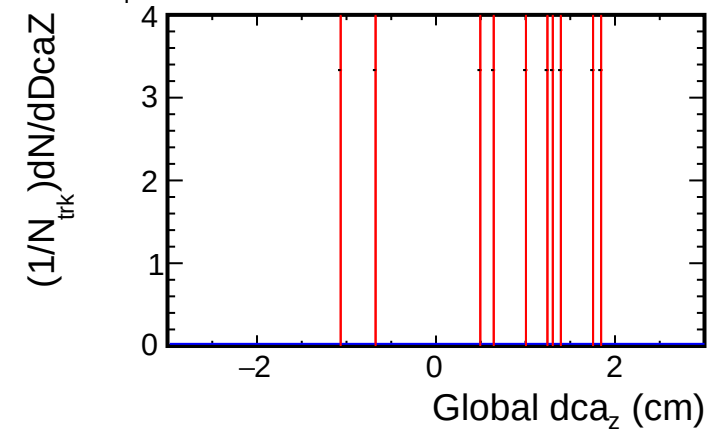
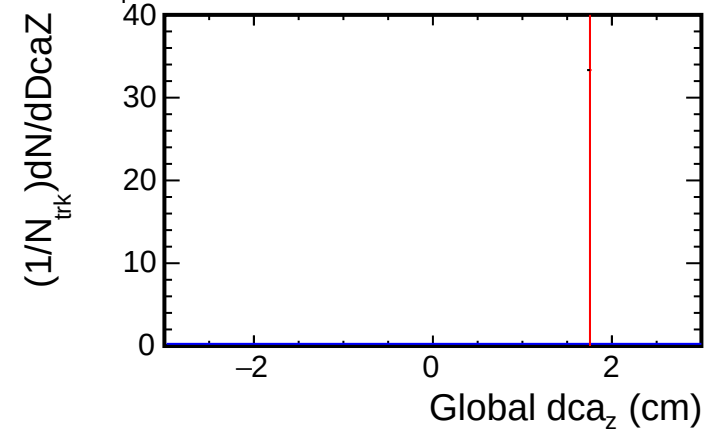
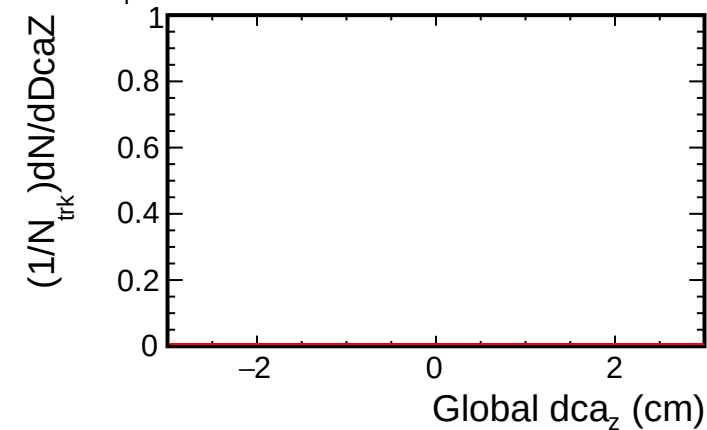
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

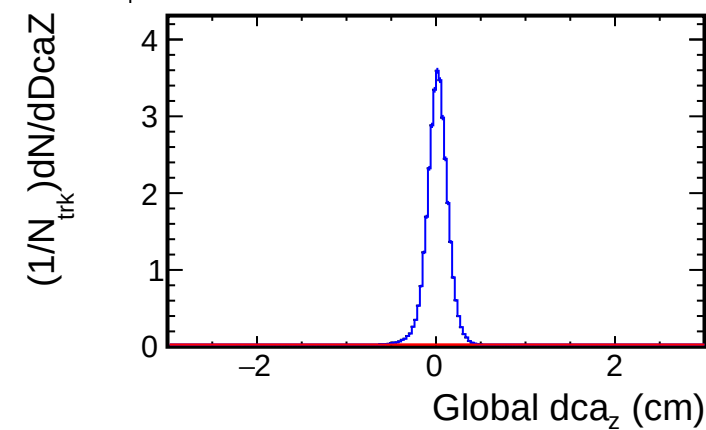
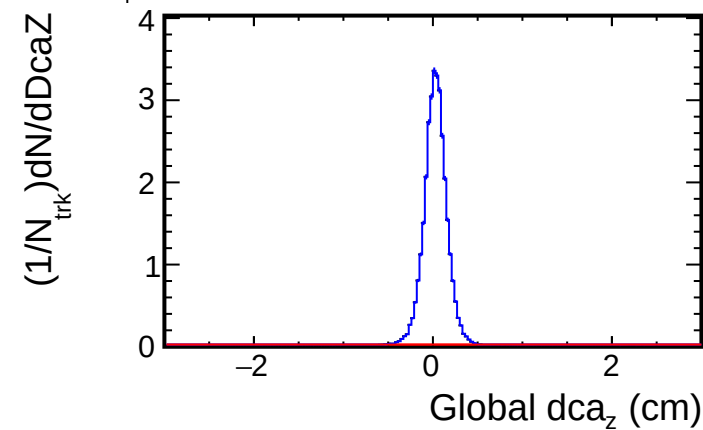
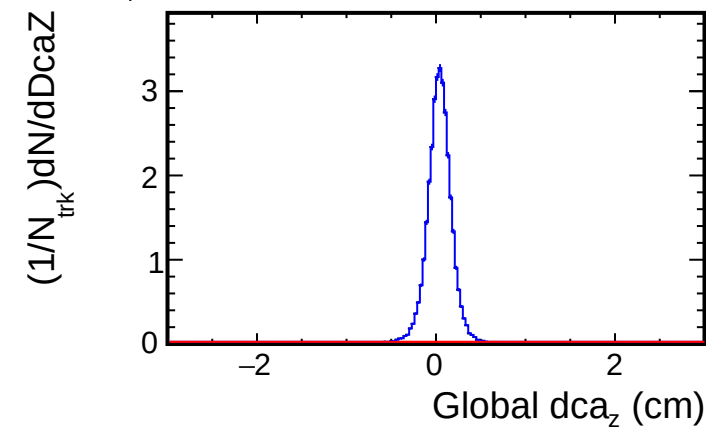
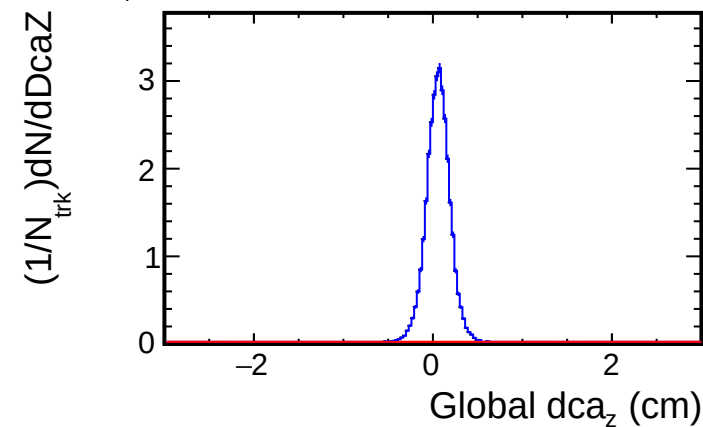
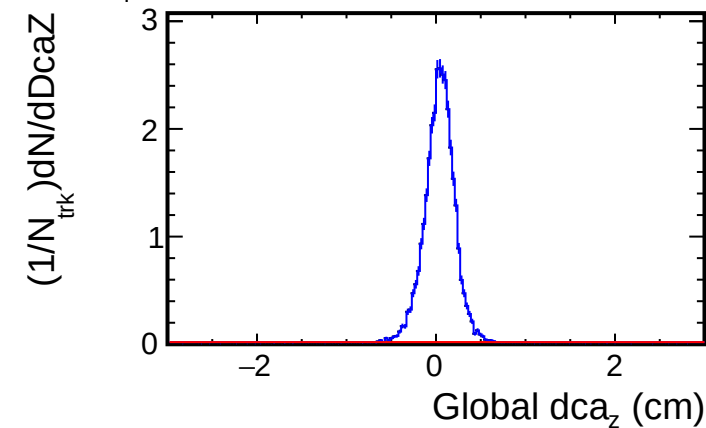
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ 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)

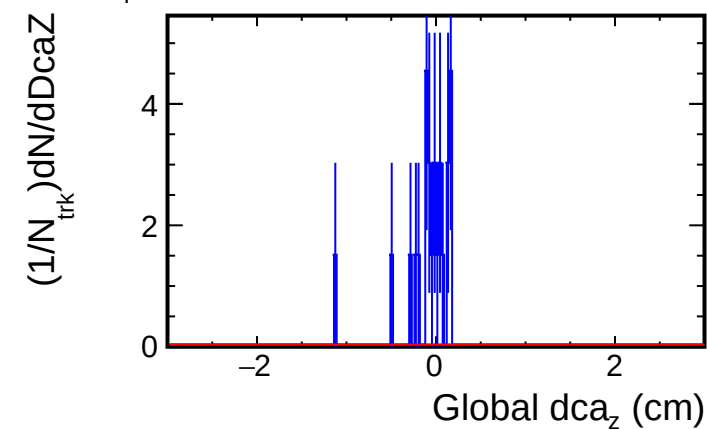
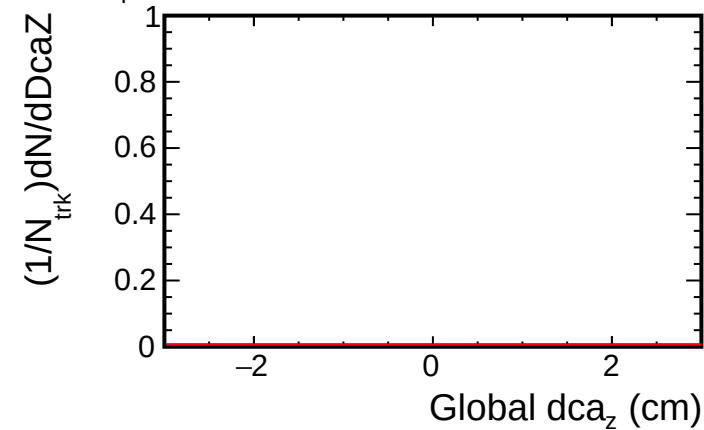
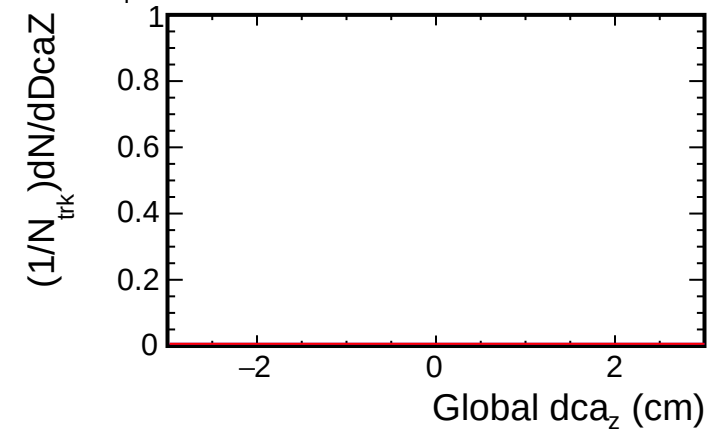
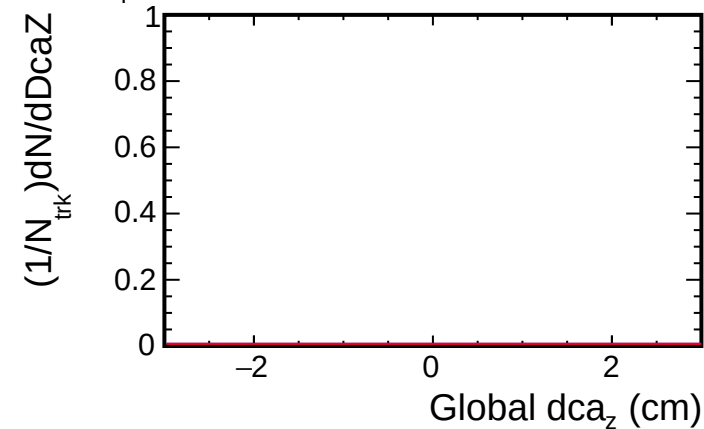
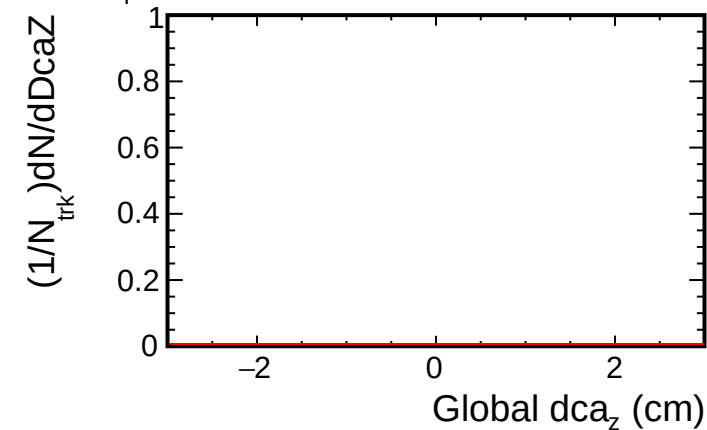
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

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)

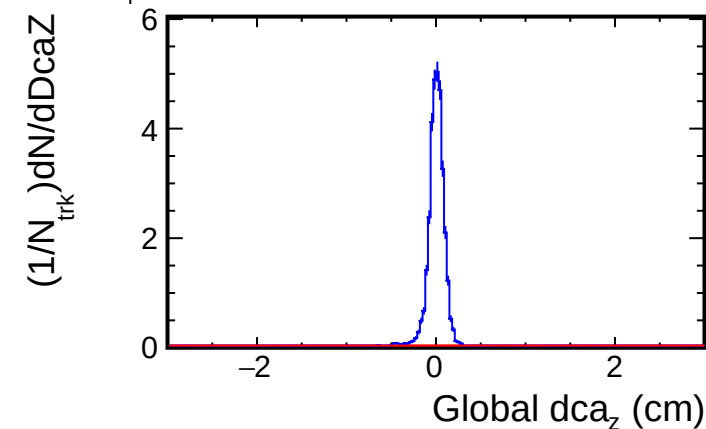
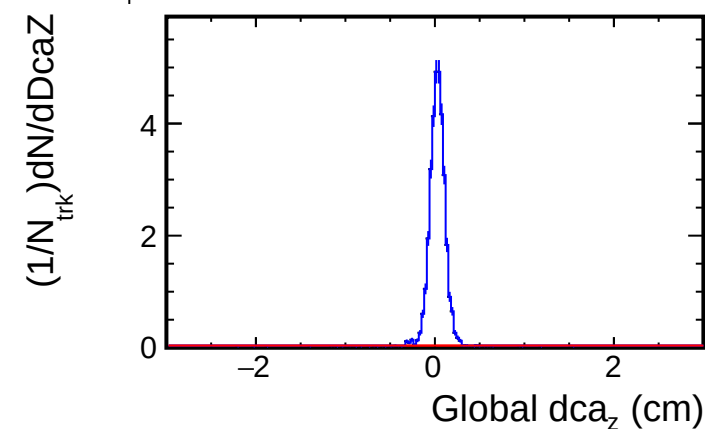
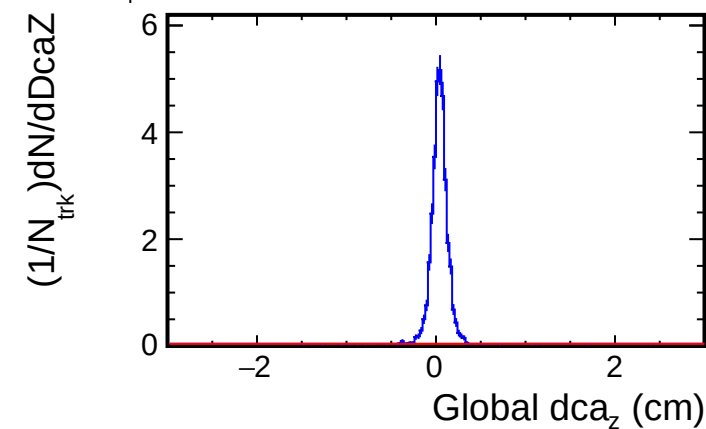
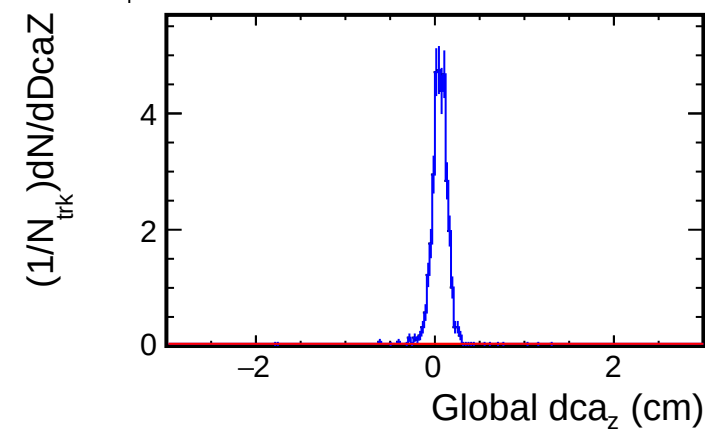
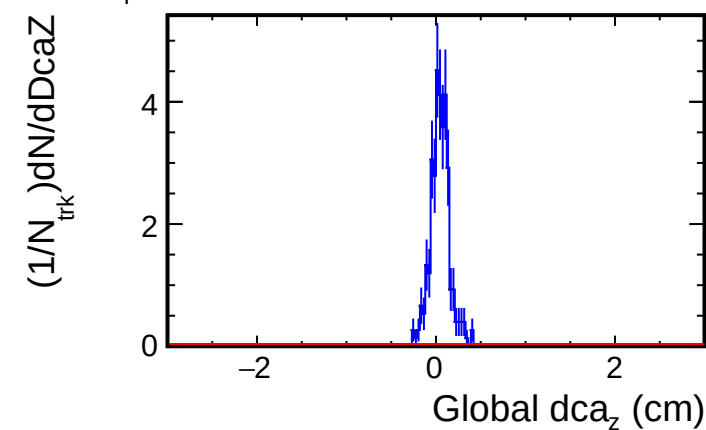
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

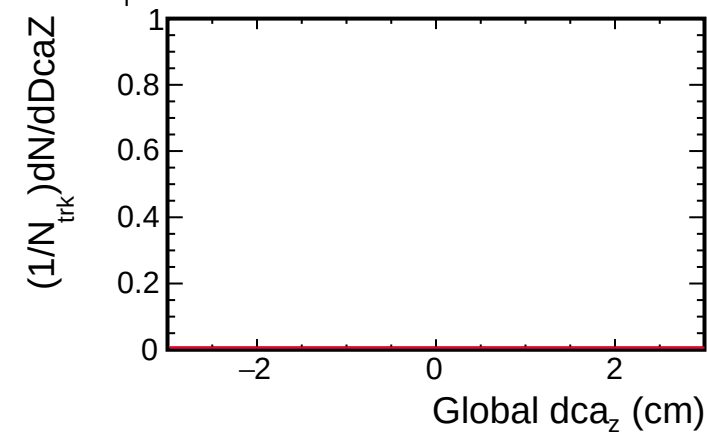
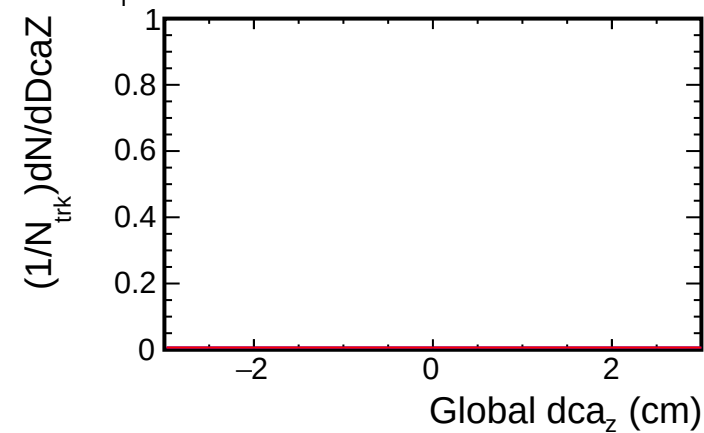
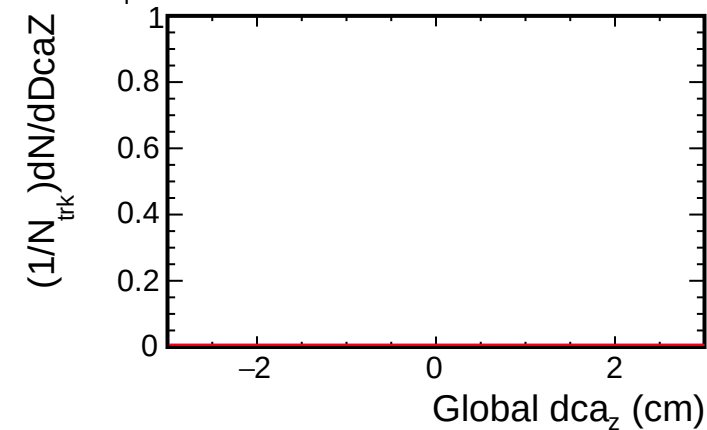
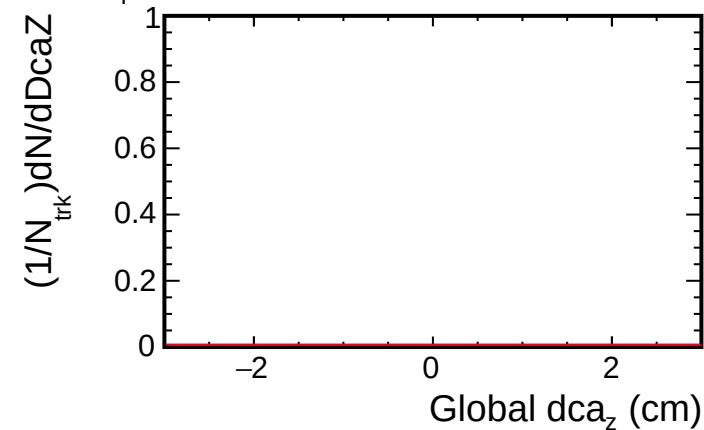
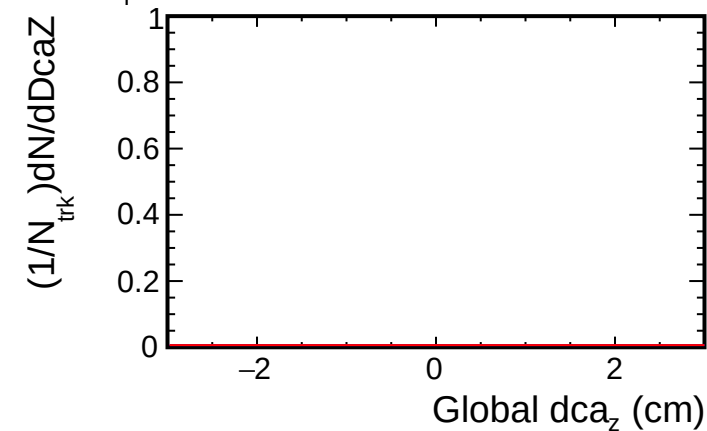
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

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

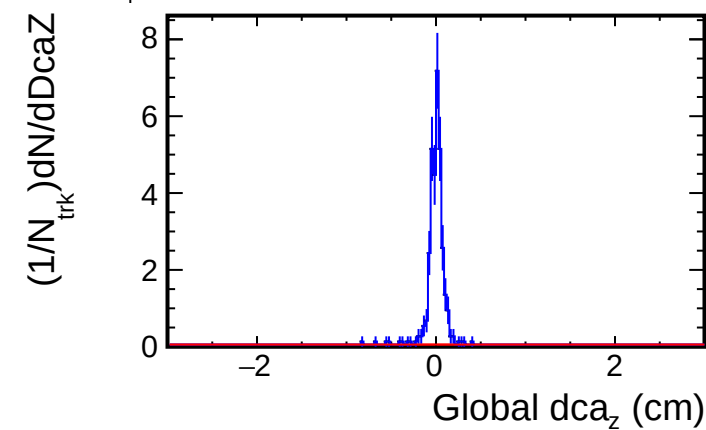
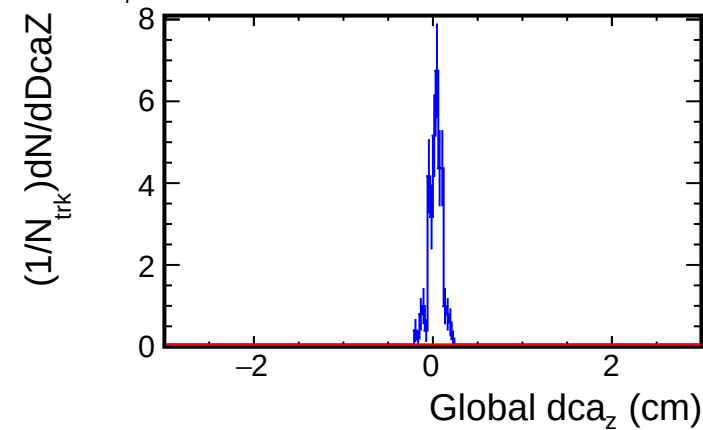
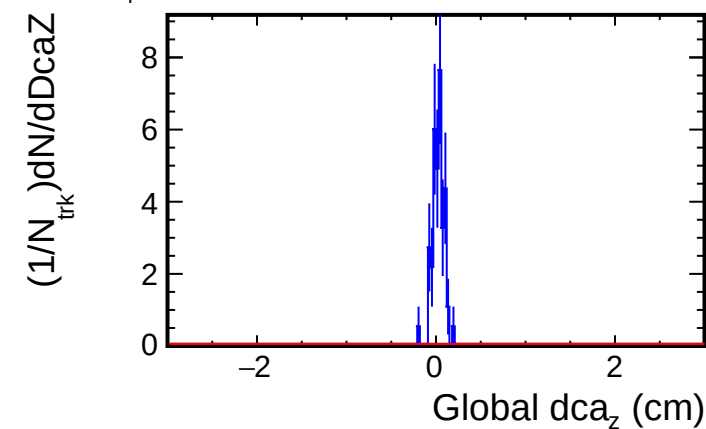
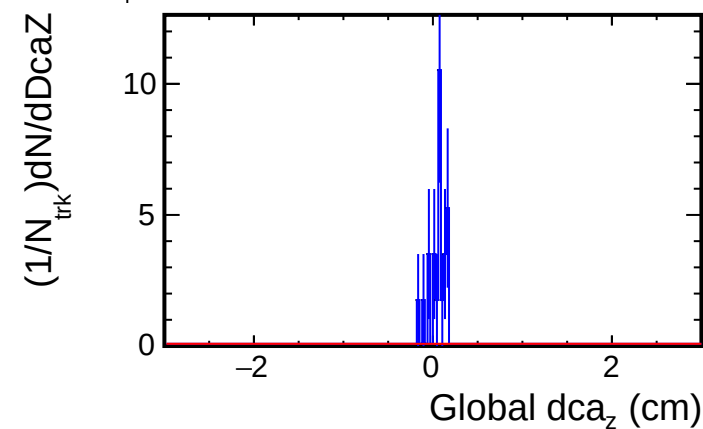
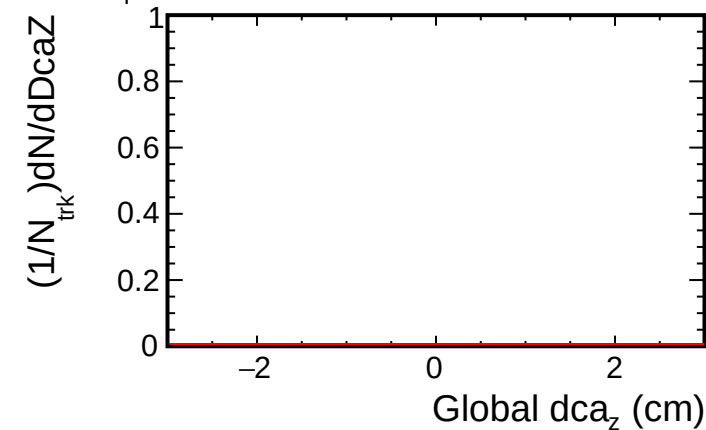
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— π^-
(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)

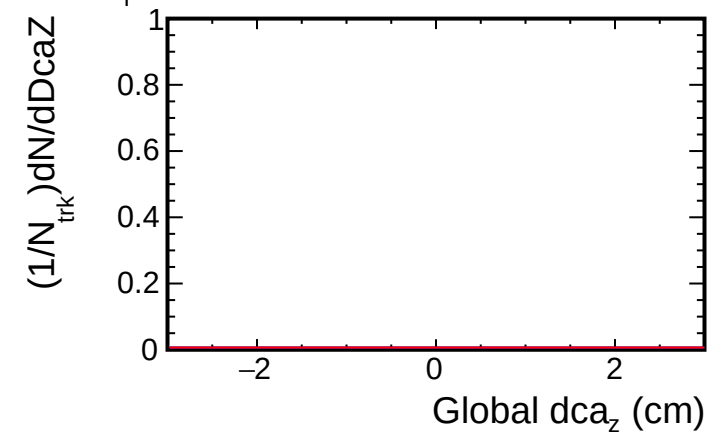
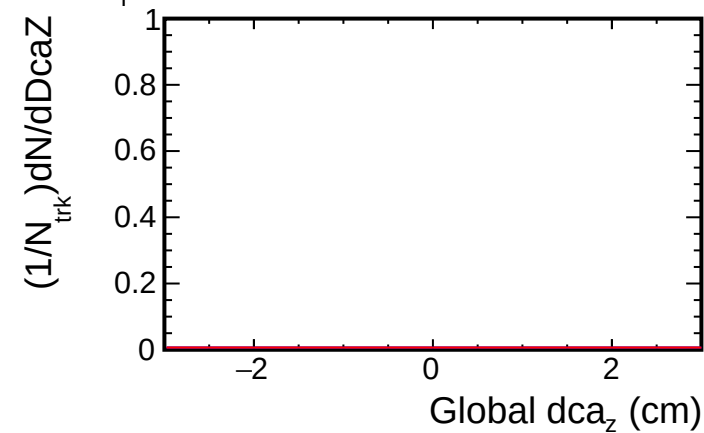
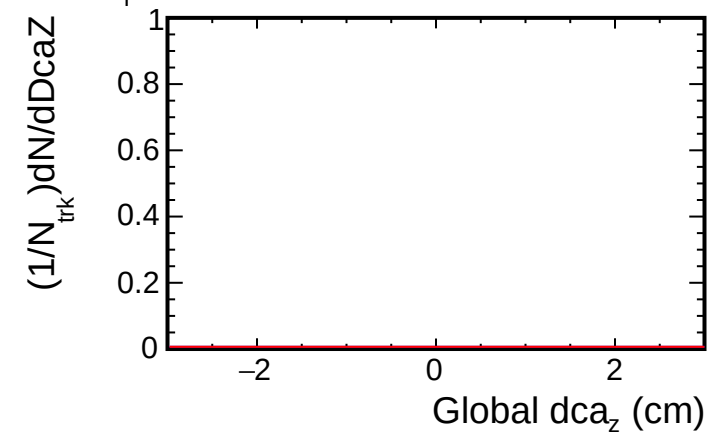
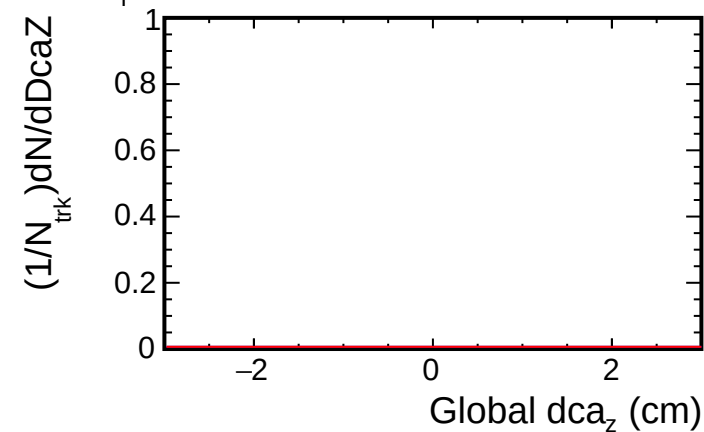
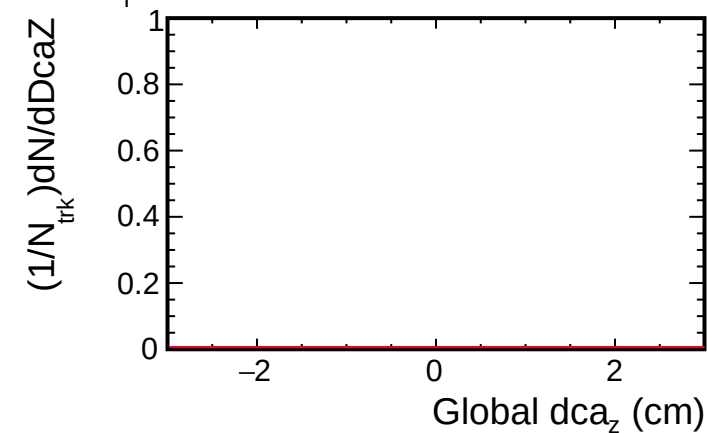
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{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)

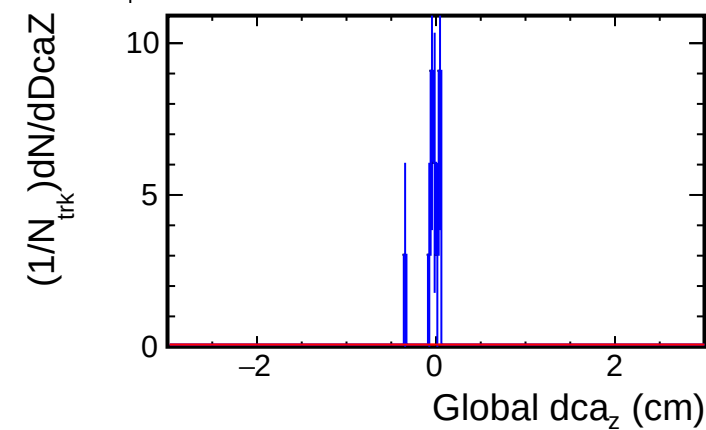
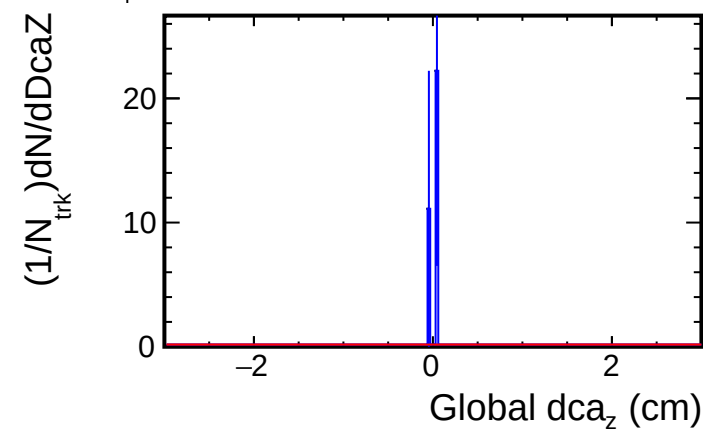
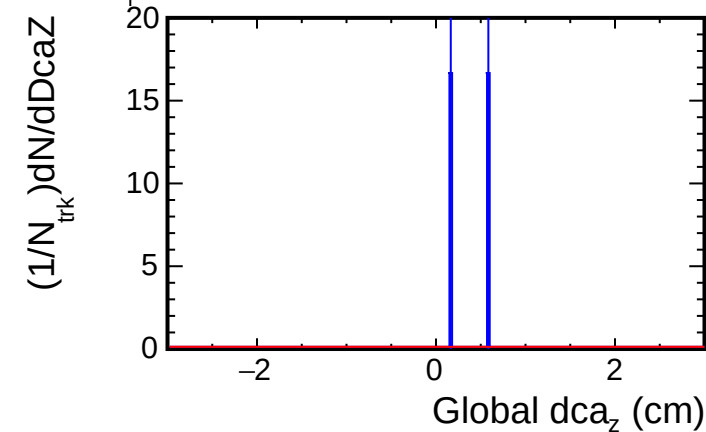
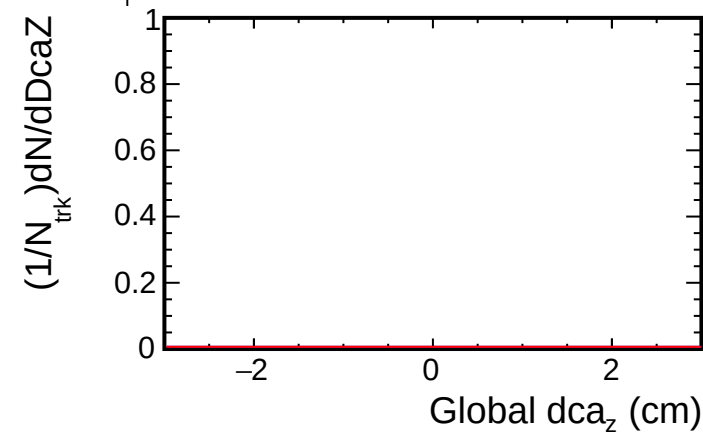
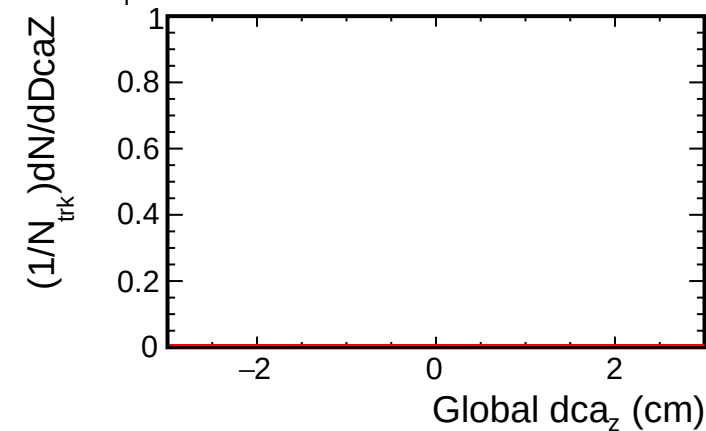
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{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)

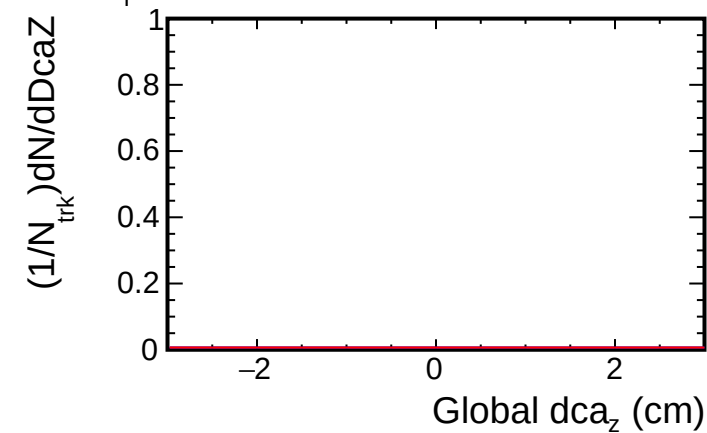
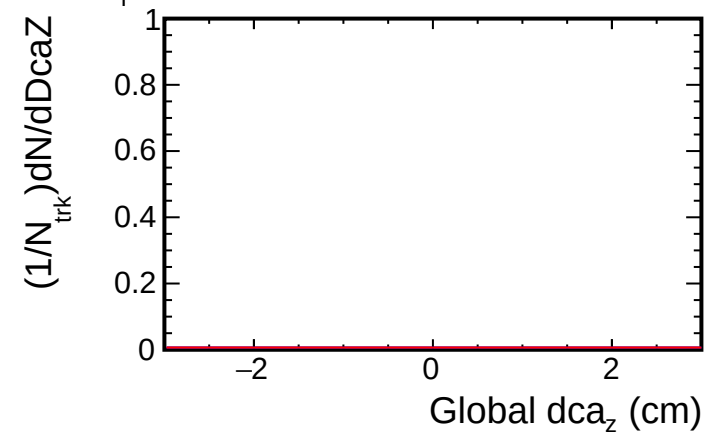
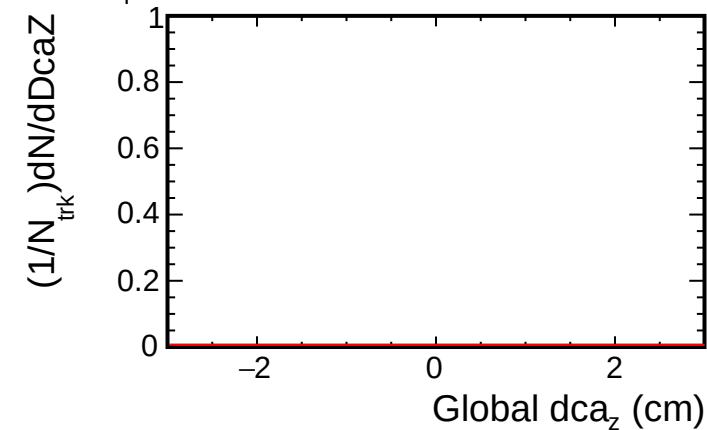
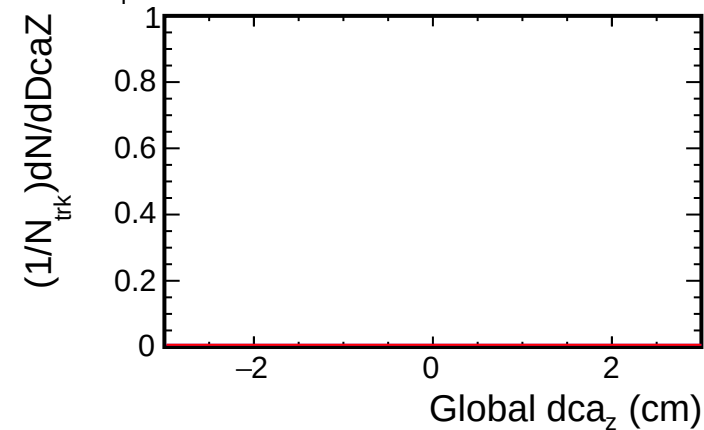
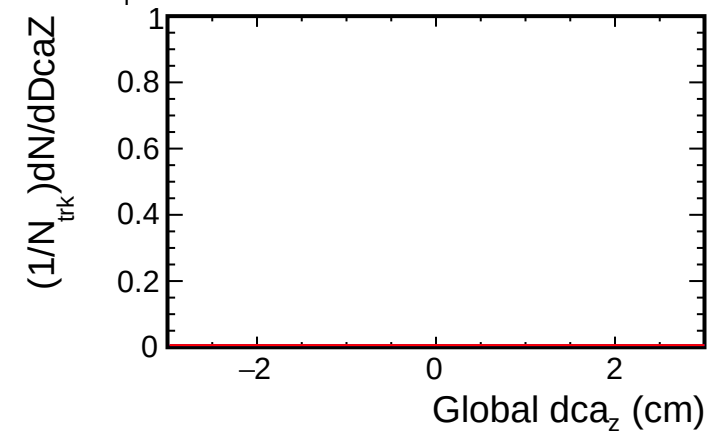
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{pi⁻}| < 2 TPC)

DcaZ distribution for (p_T , η) 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)

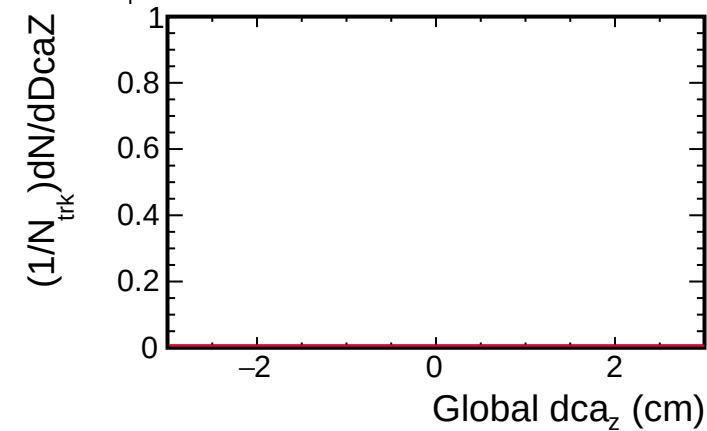
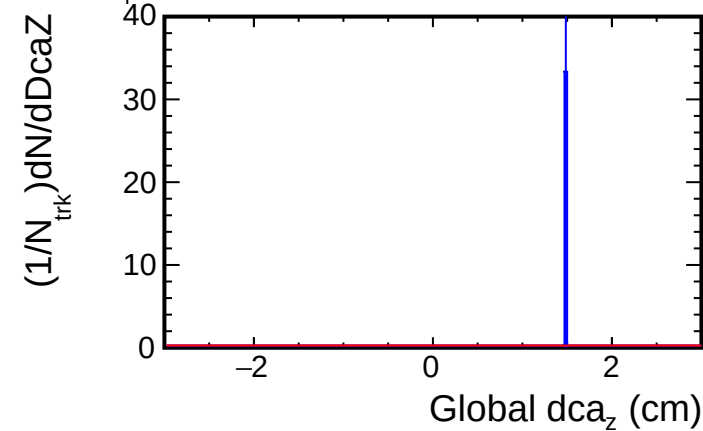
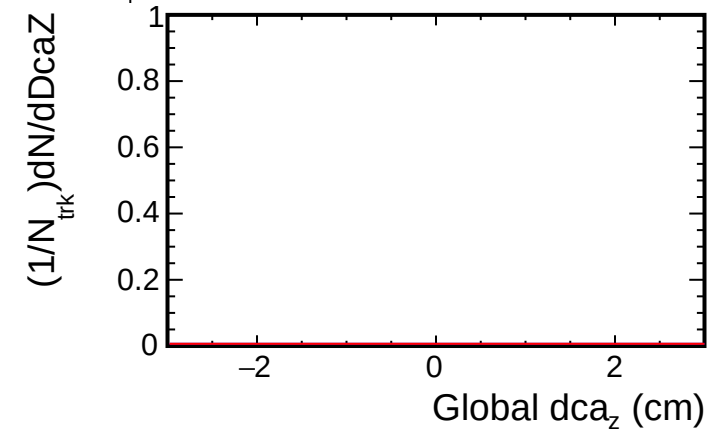
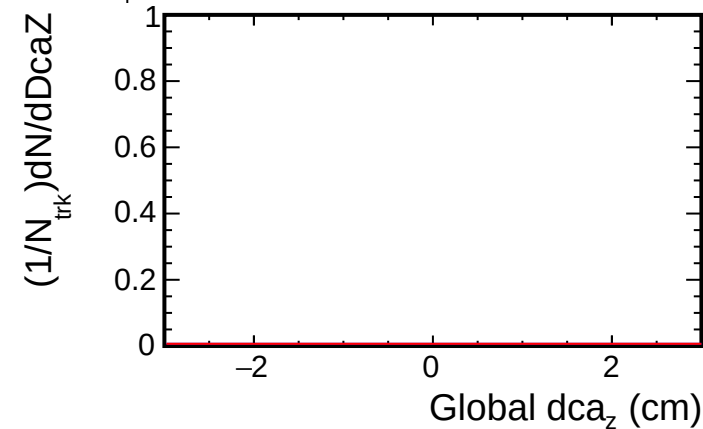
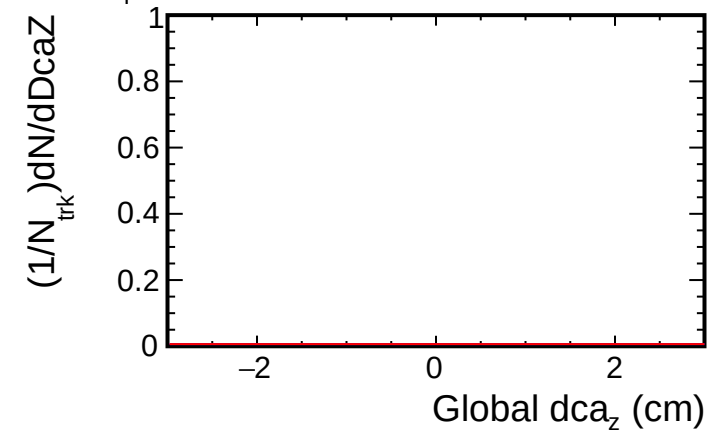
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

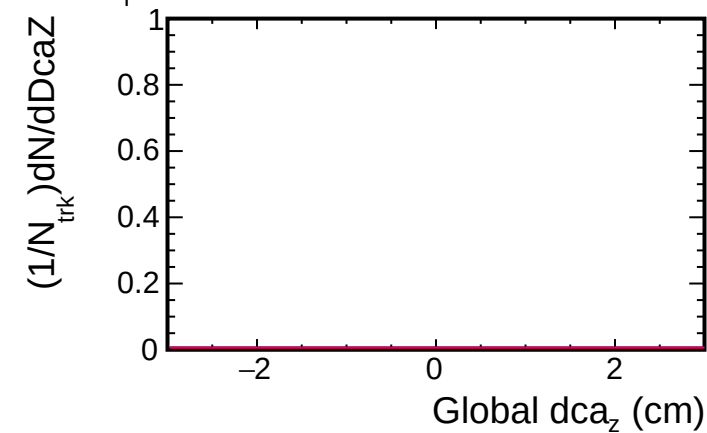
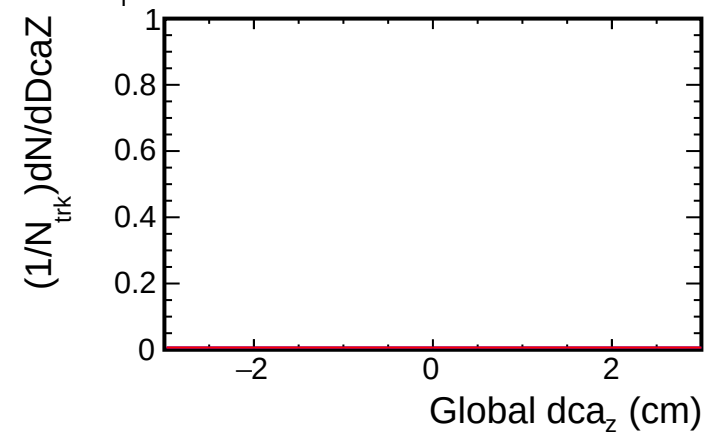
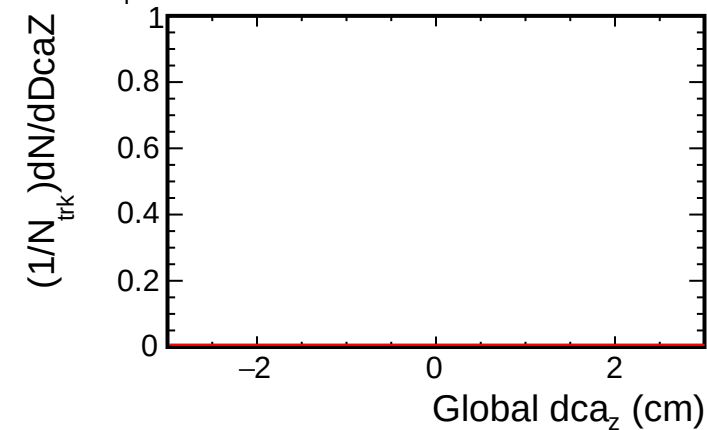
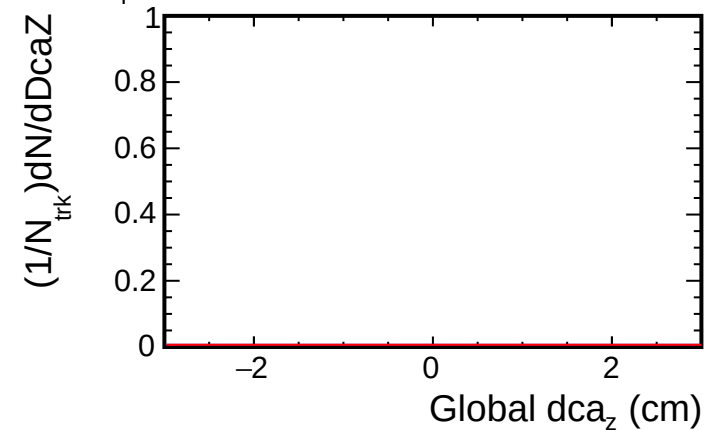
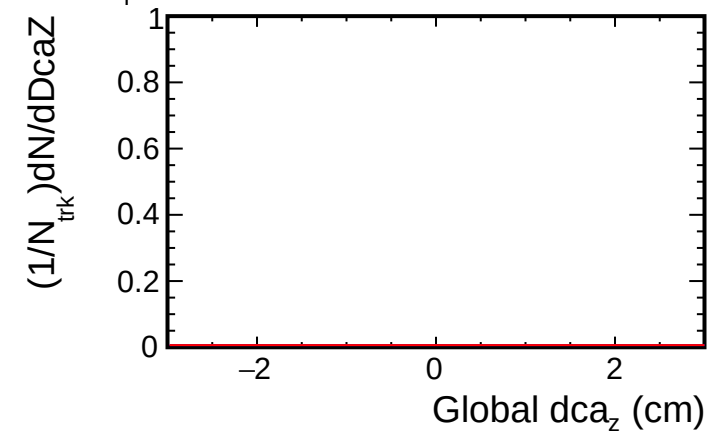
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

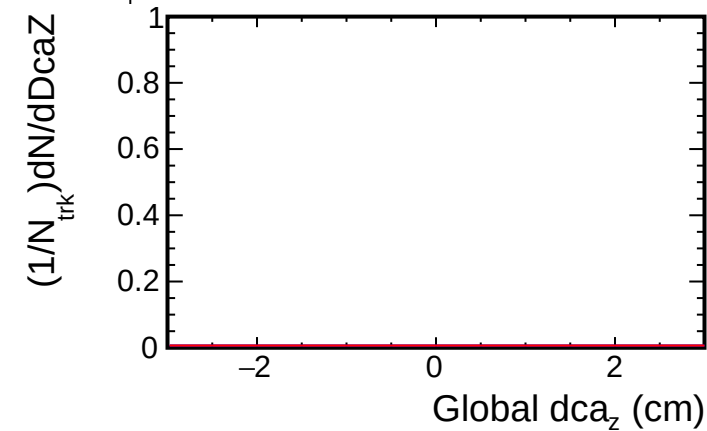
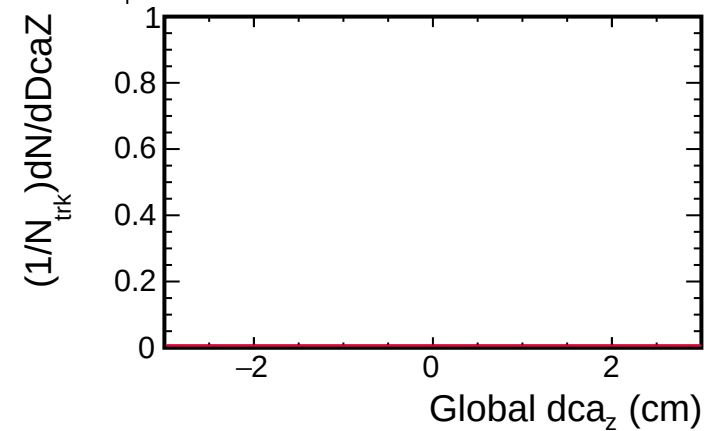
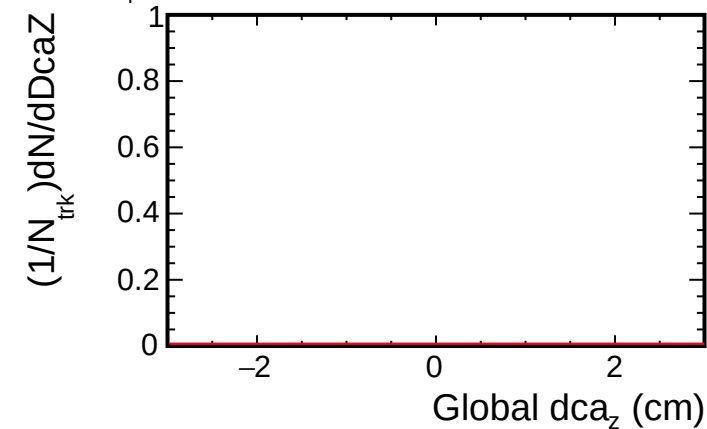
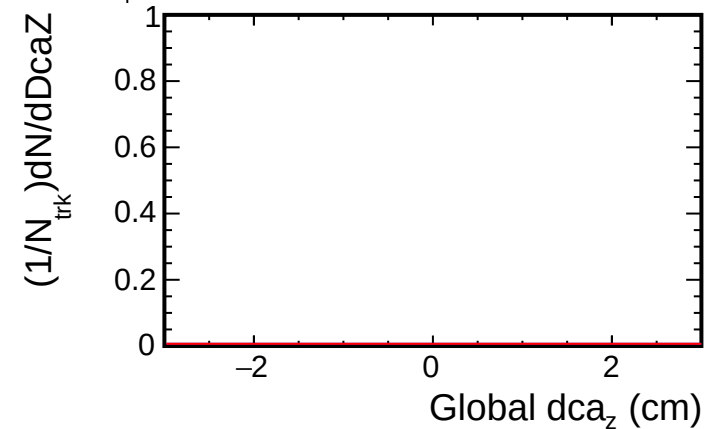
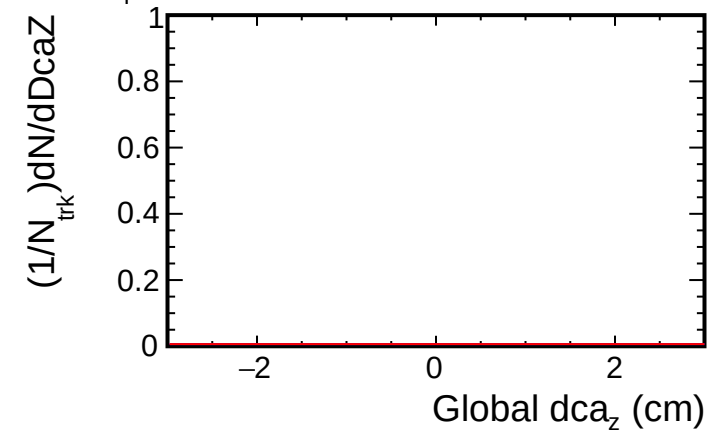
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— 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)

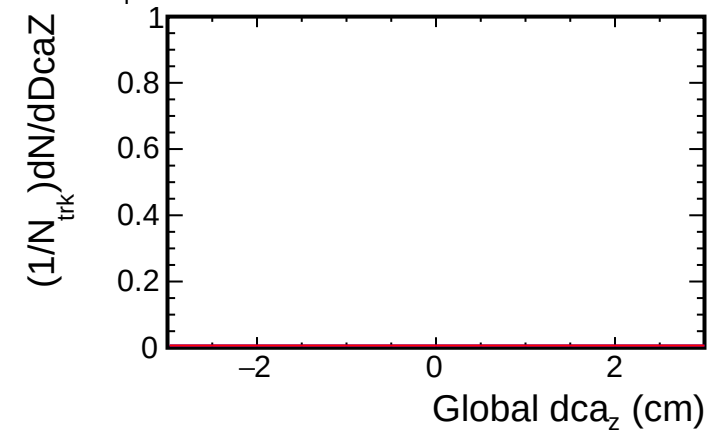
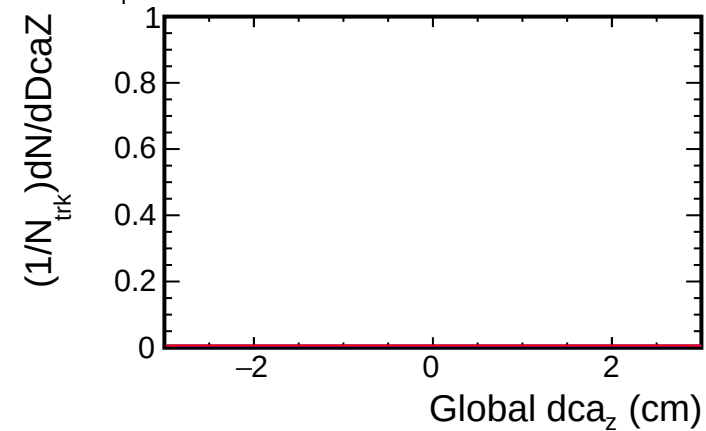
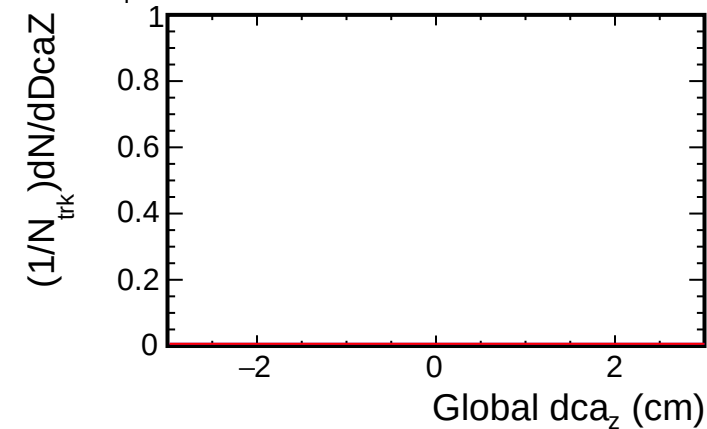
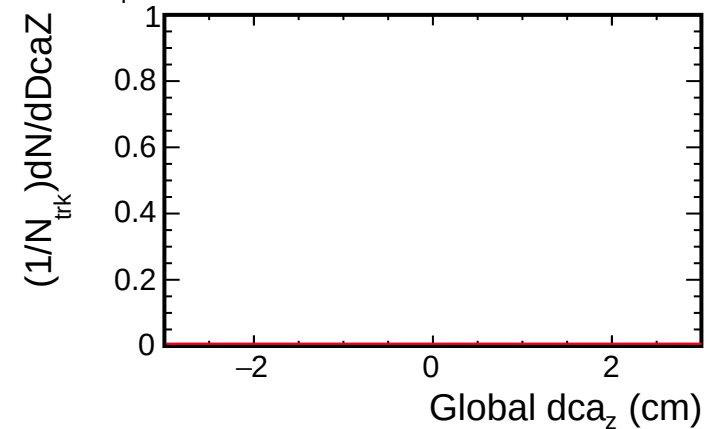
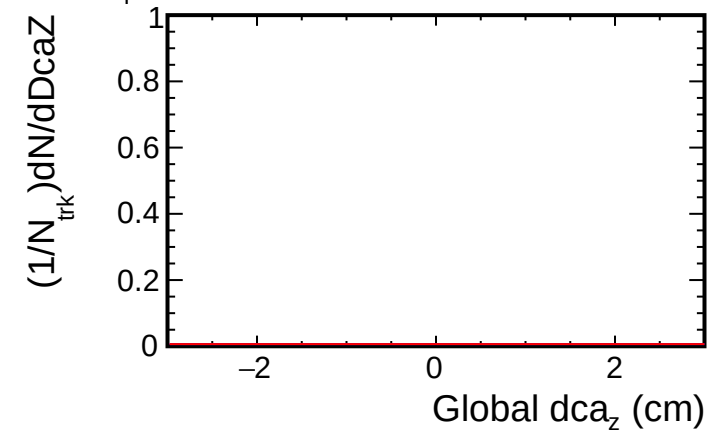
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— 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)

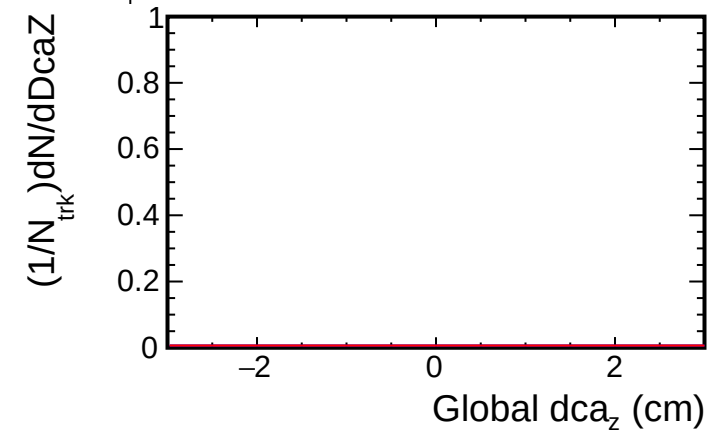
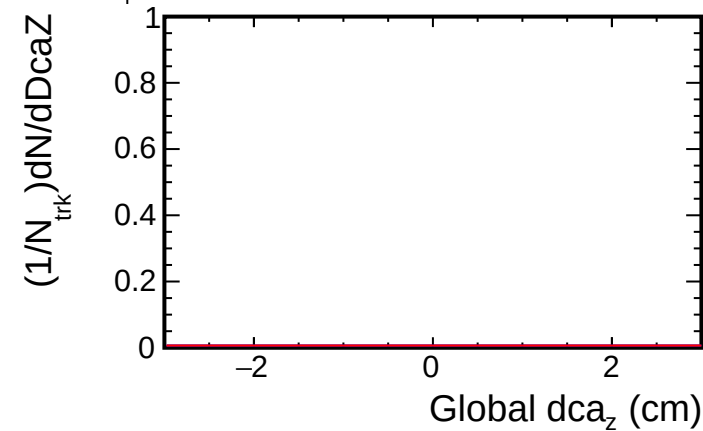
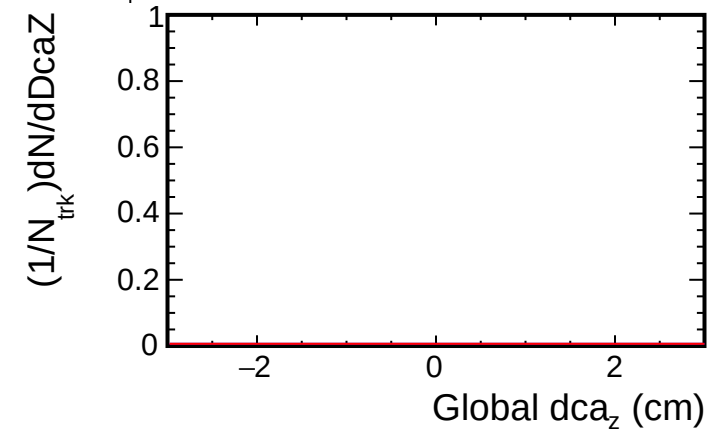
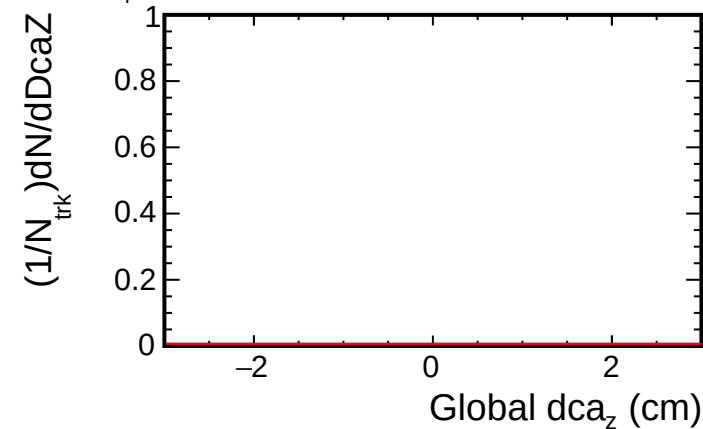
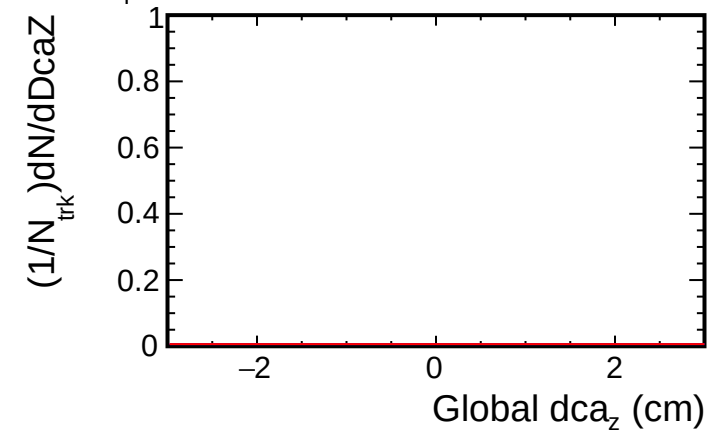
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

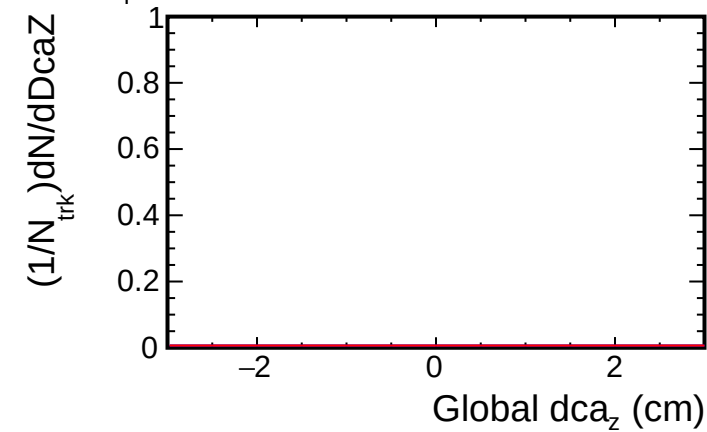
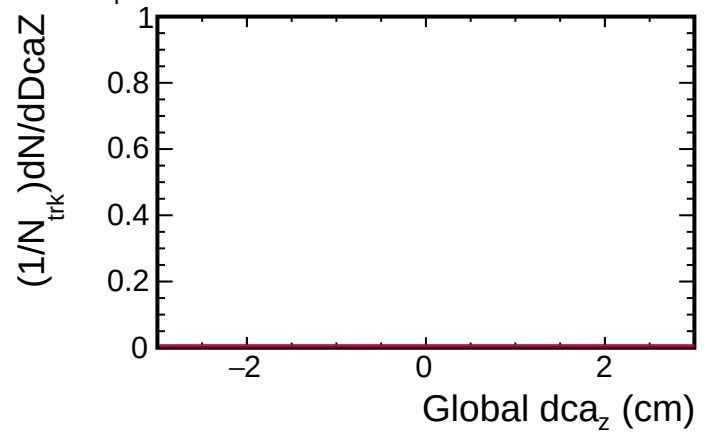
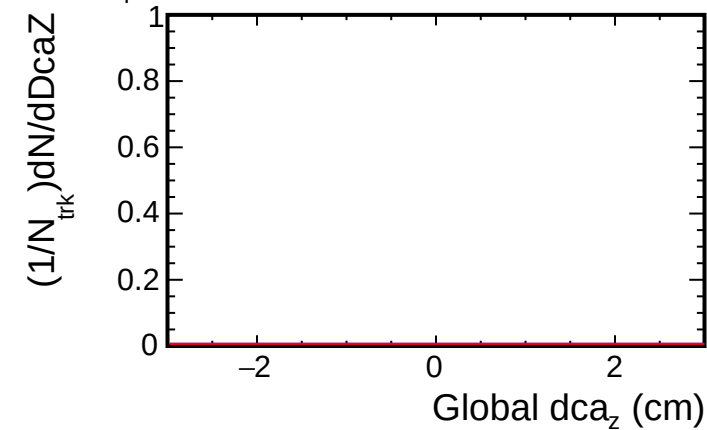
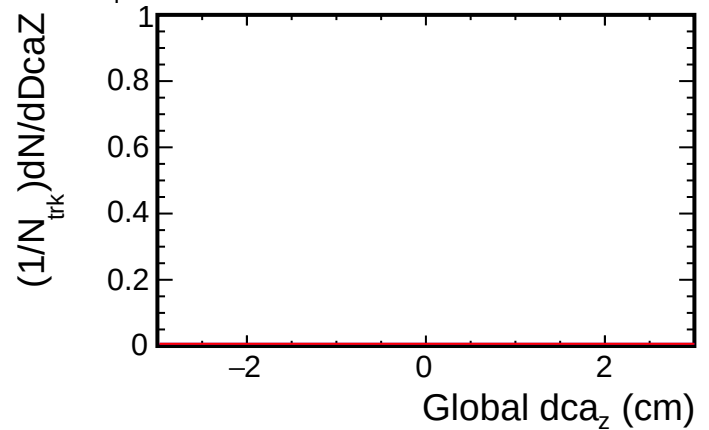
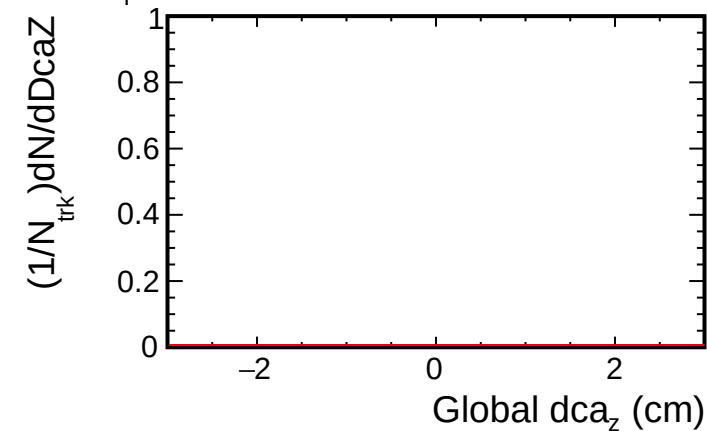
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

DcaZ distribution for (p_T , η) slices $1.8, 3.5 < p_T < 4.0$ (GeV/c) $1.6, 3.5 < p_T < 4.0$ (GeV/c) $1.4, 3.5 < p_T < 4.0$ (GeV/c) $1.2, 3.5 < p_T < 4.0$ (GeV/c) $1.0, 3.5 < p_T < 4.0$ (GeV/c)

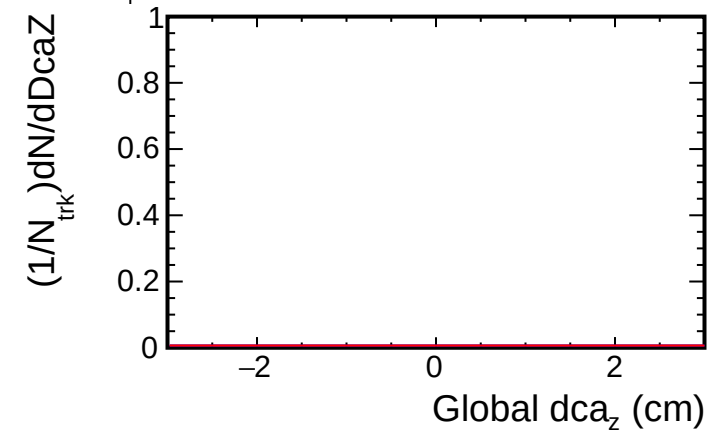
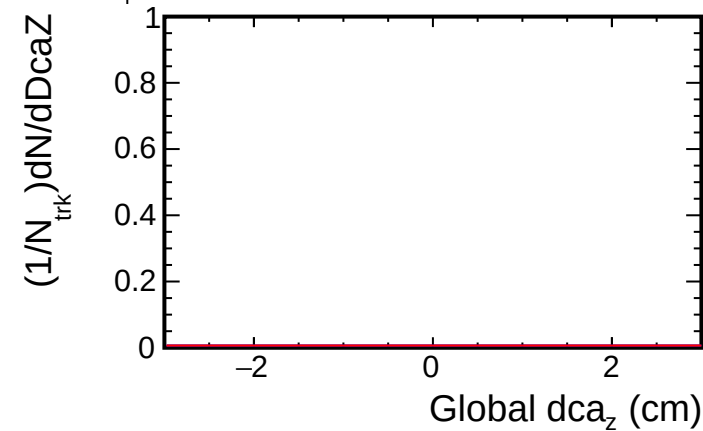
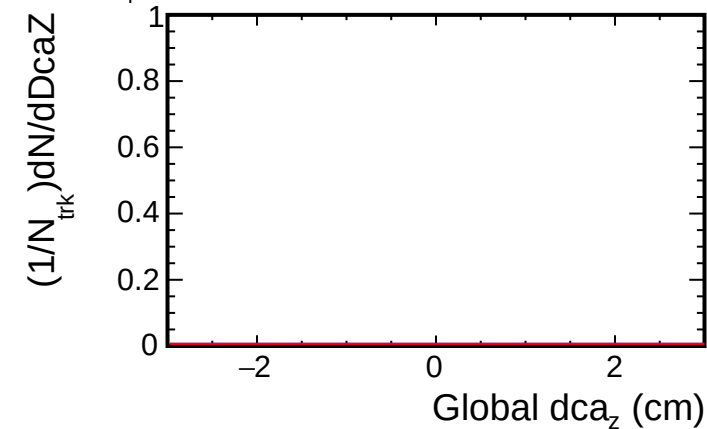
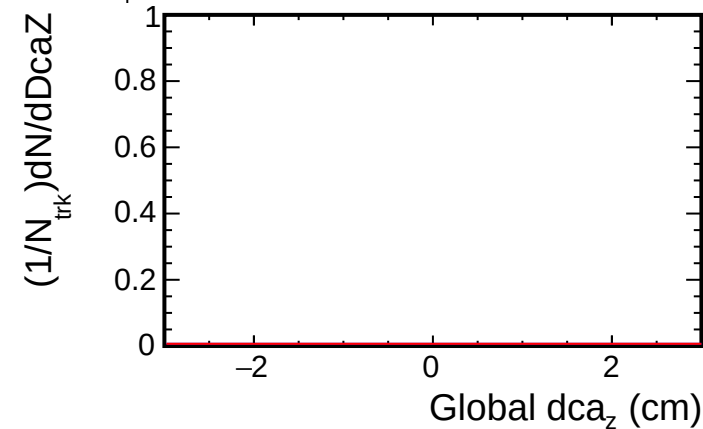
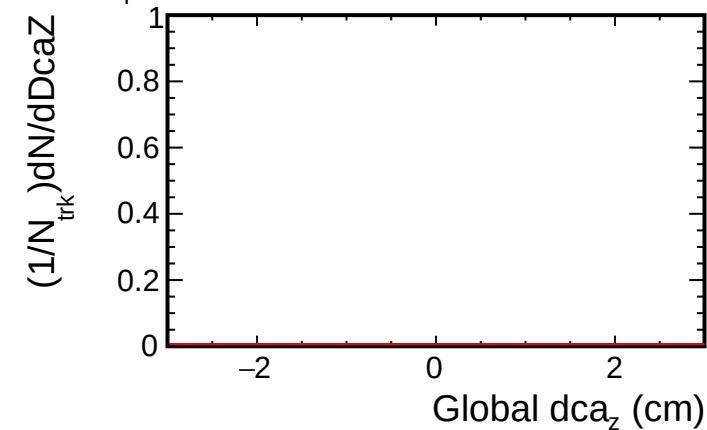
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— pi⁻
(PRIMARY, |n σ_{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)

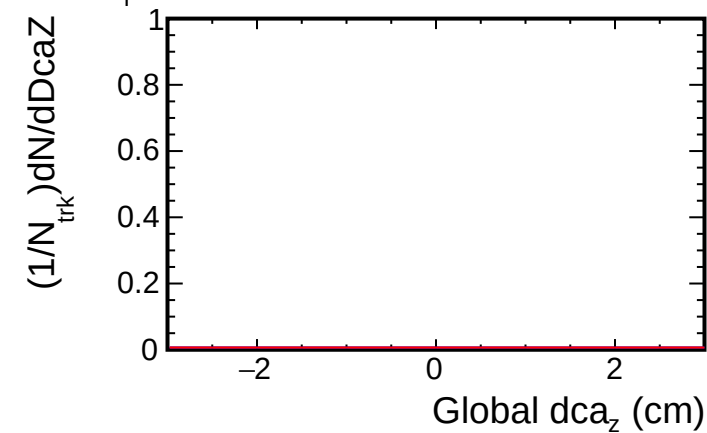
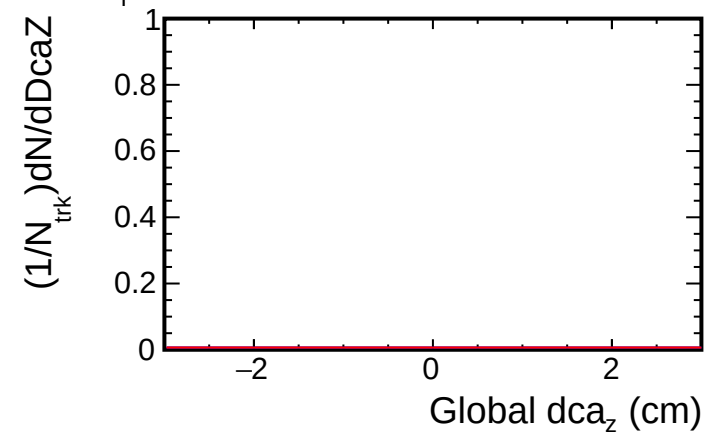
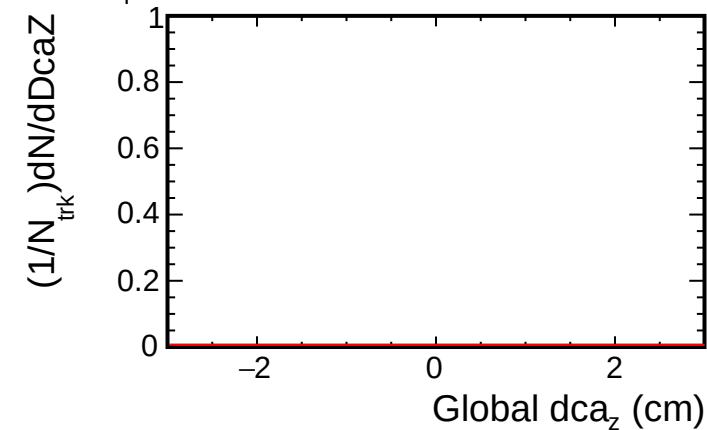
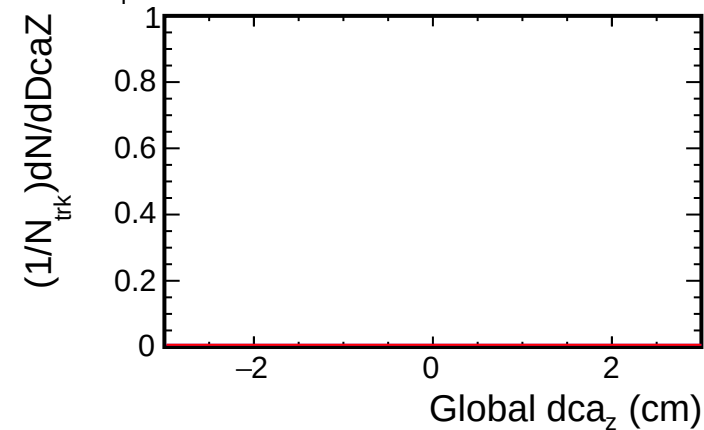
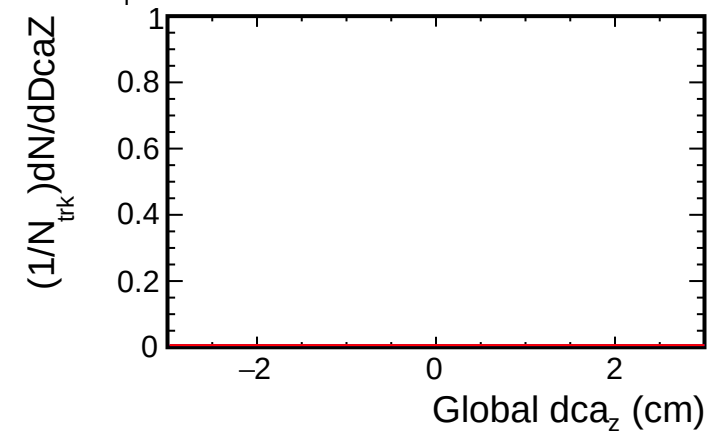
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— 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)

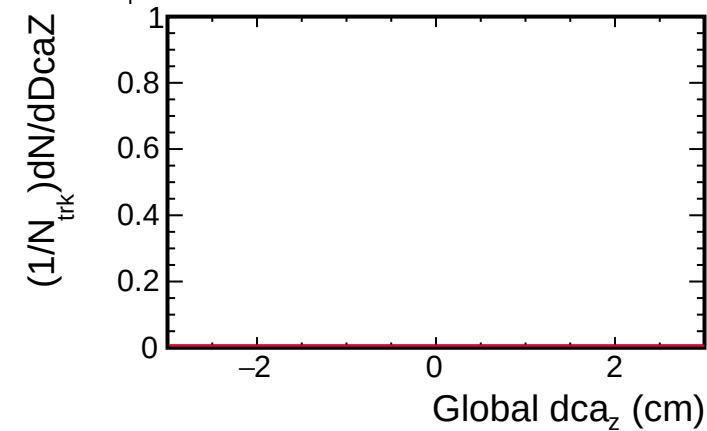
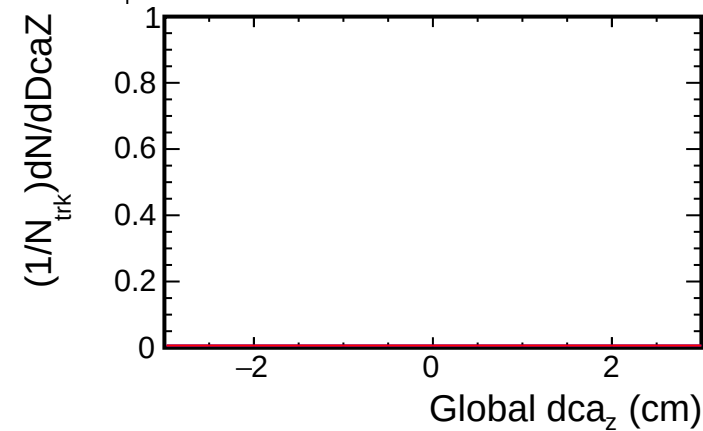
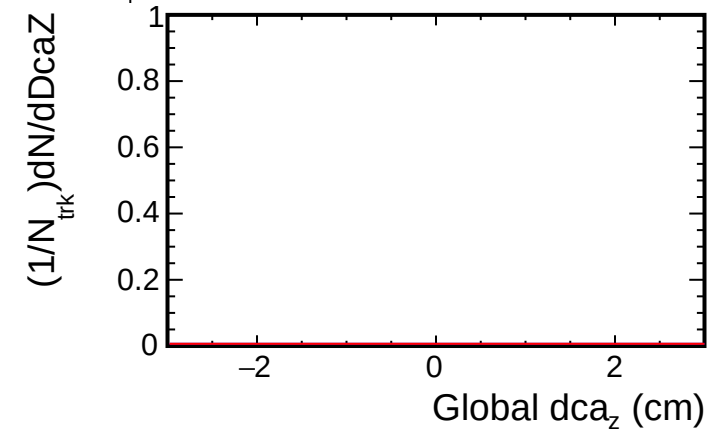
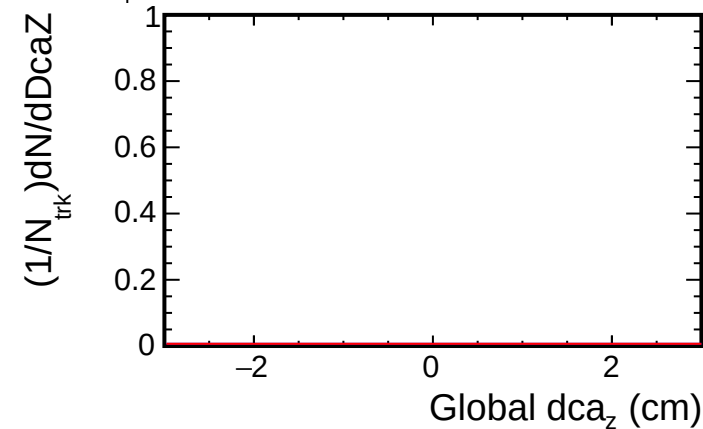
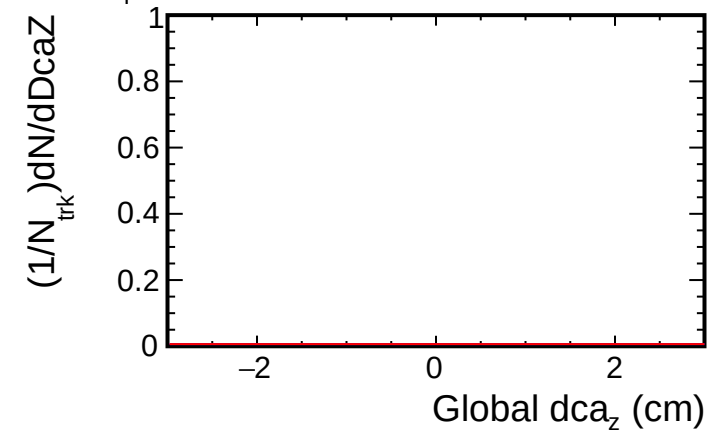
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

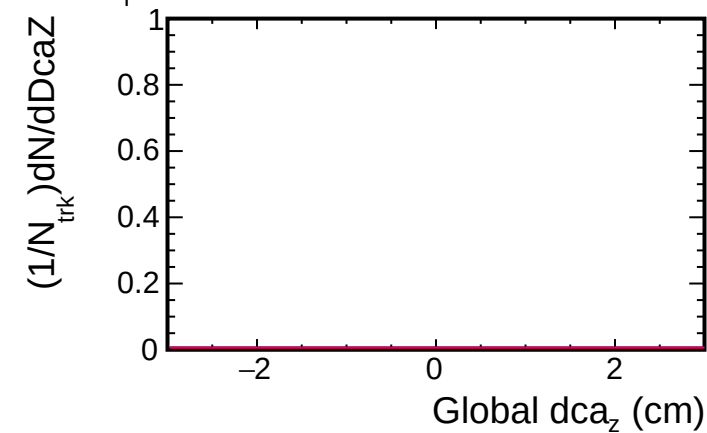
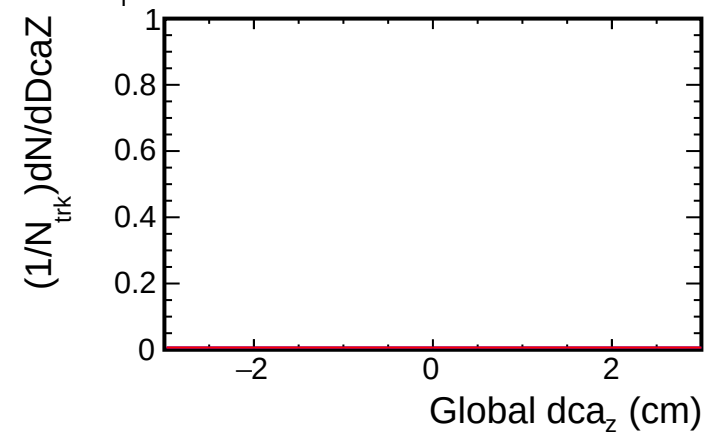
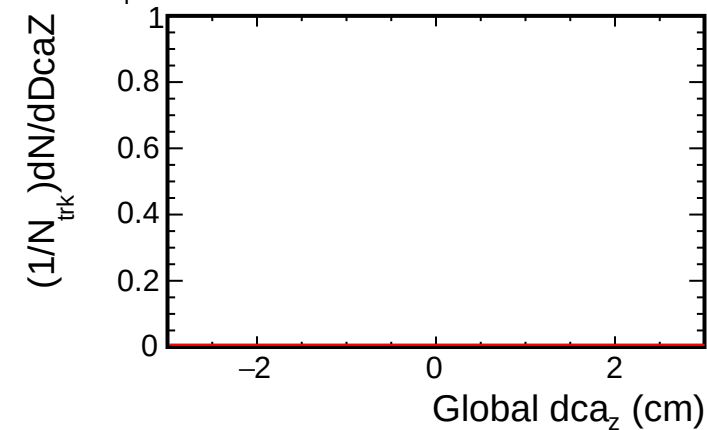
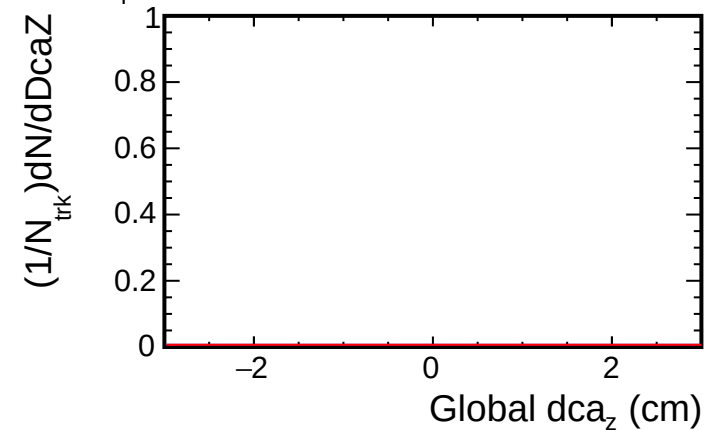
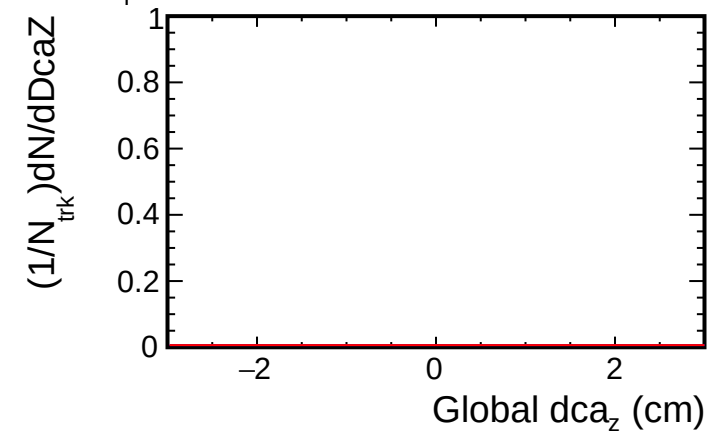
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

— 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)

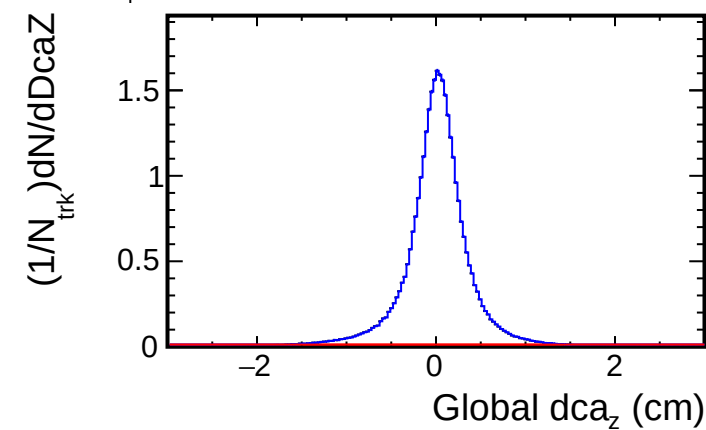
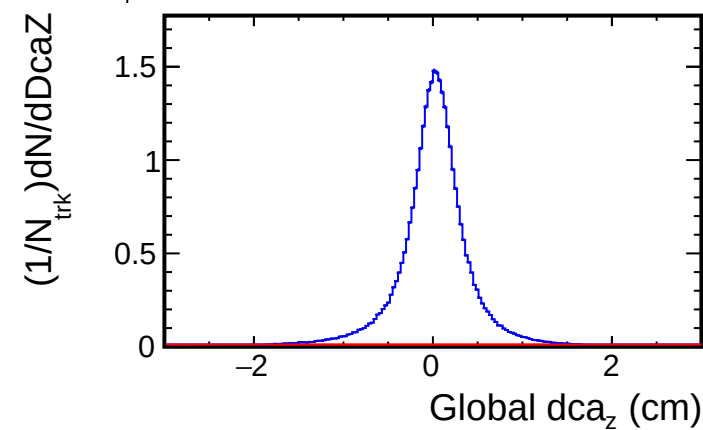
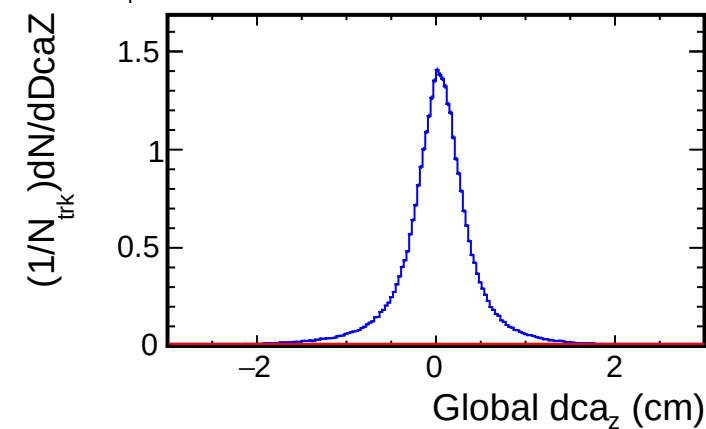
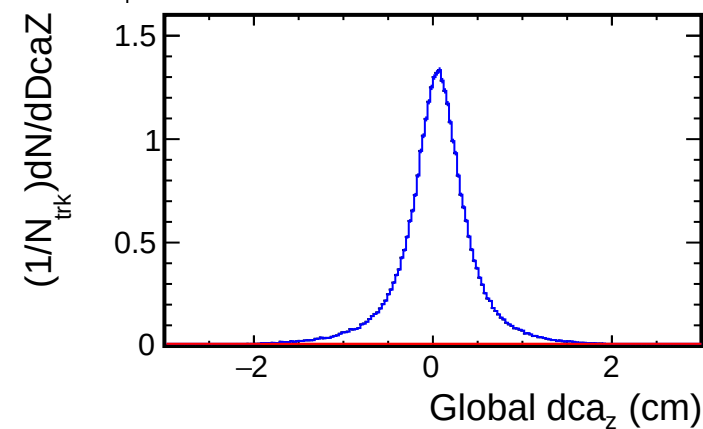
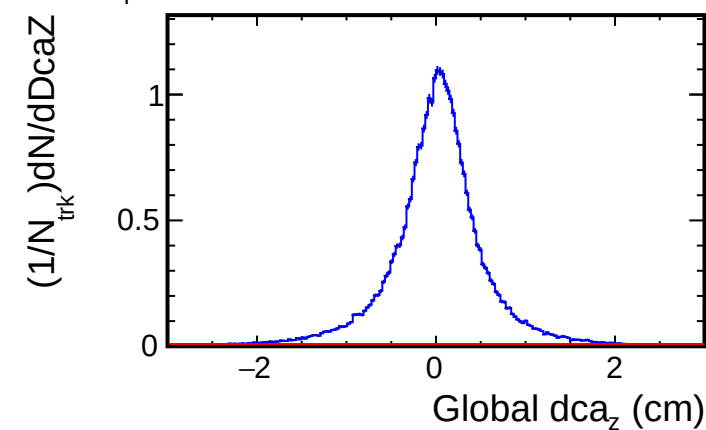
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

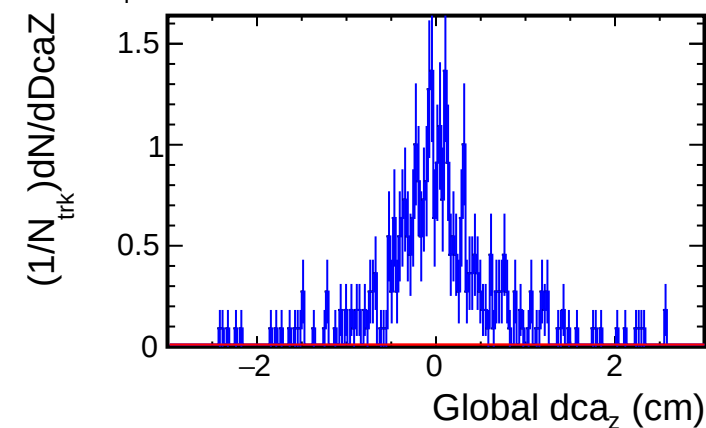
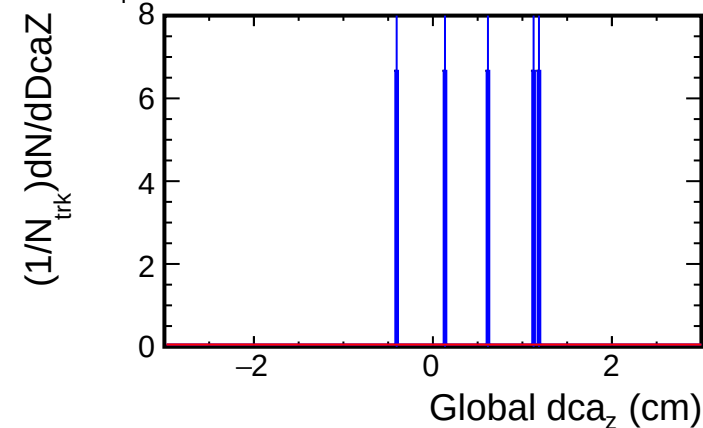
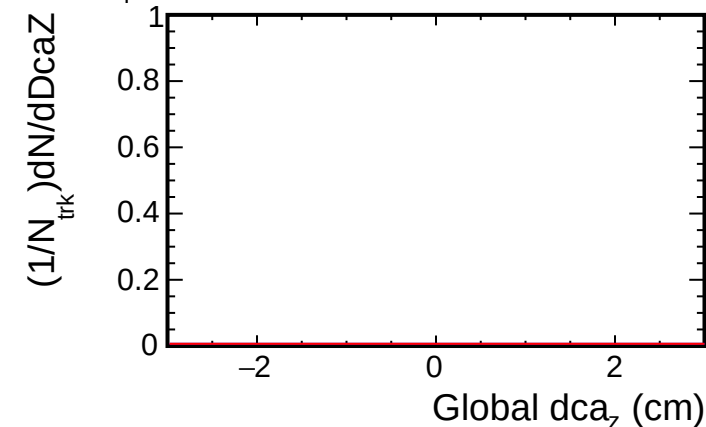
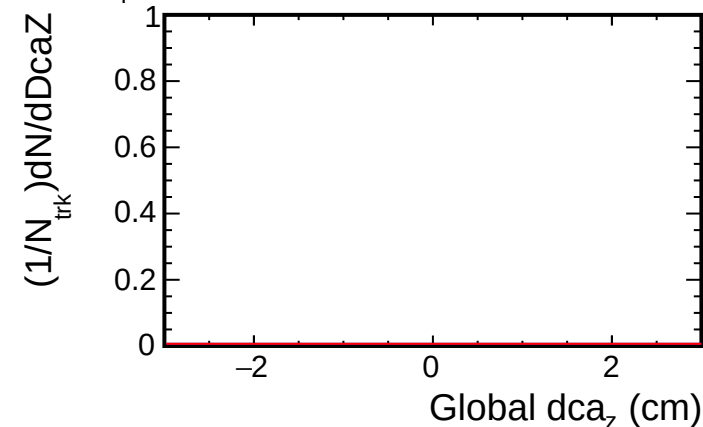
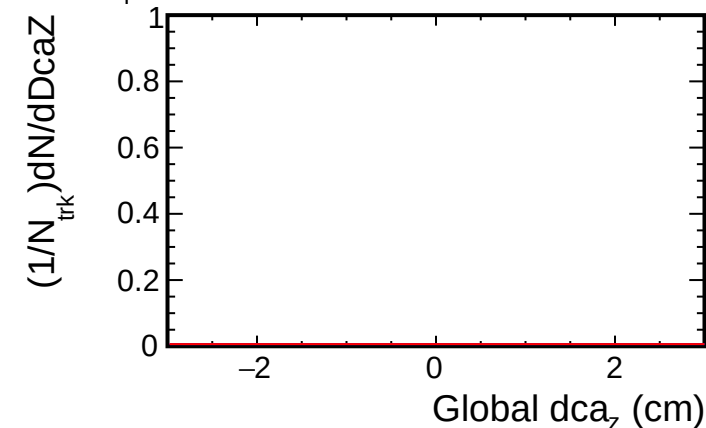
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

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

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

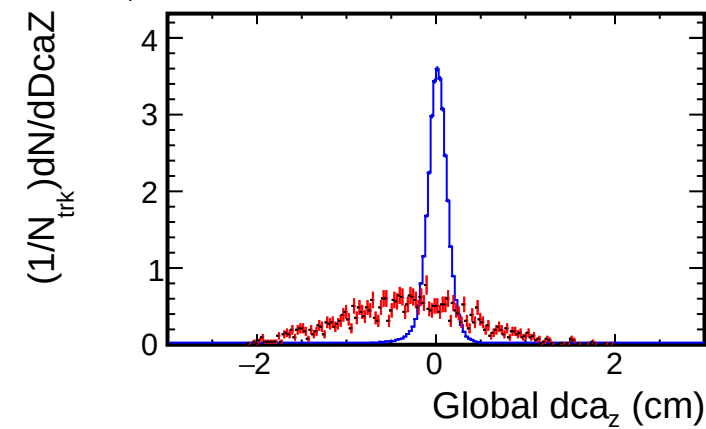
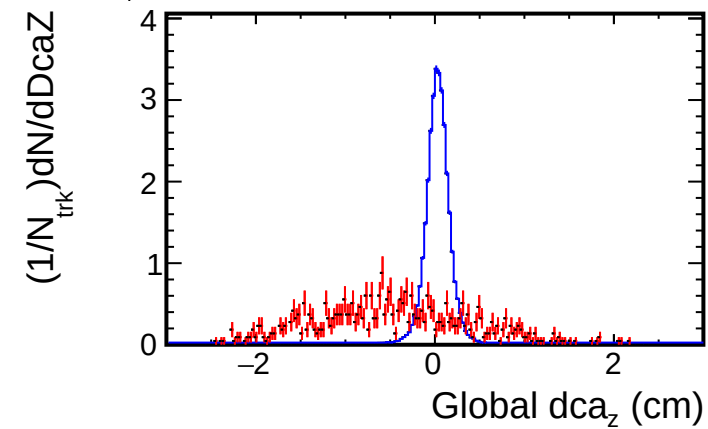
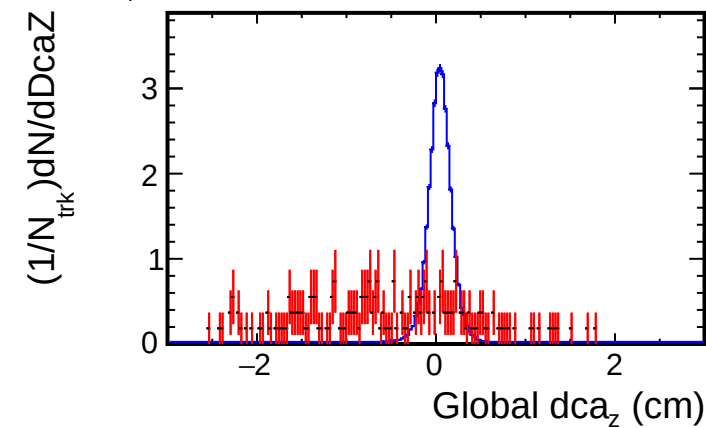
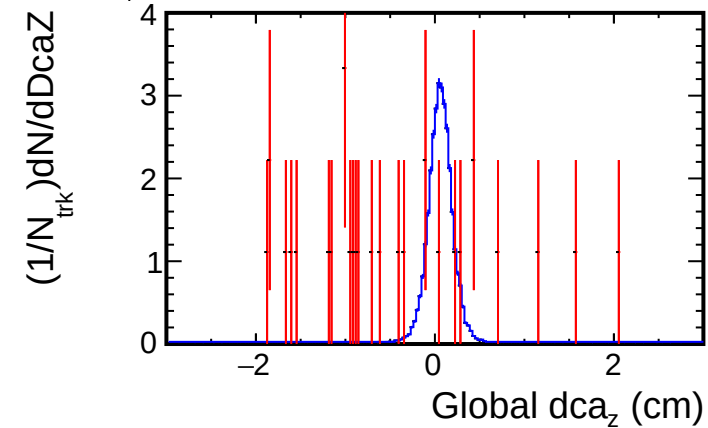
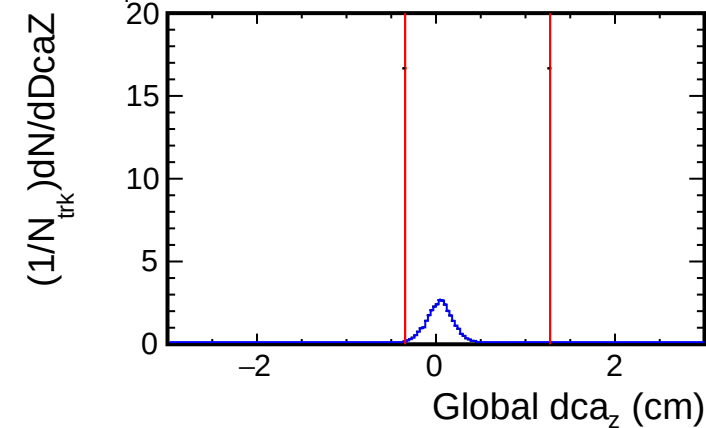
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

DcaZ 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)

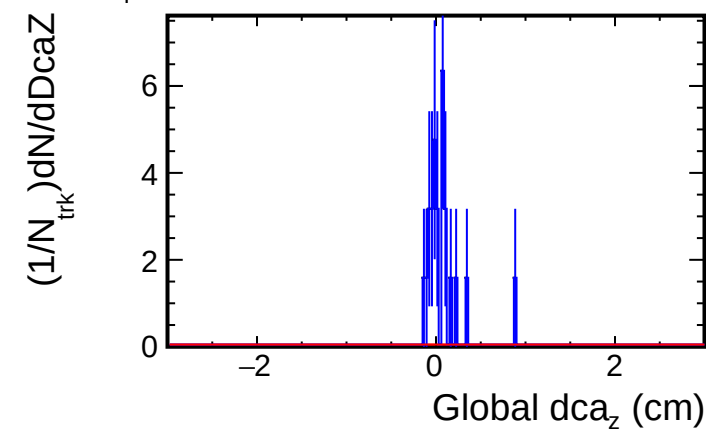
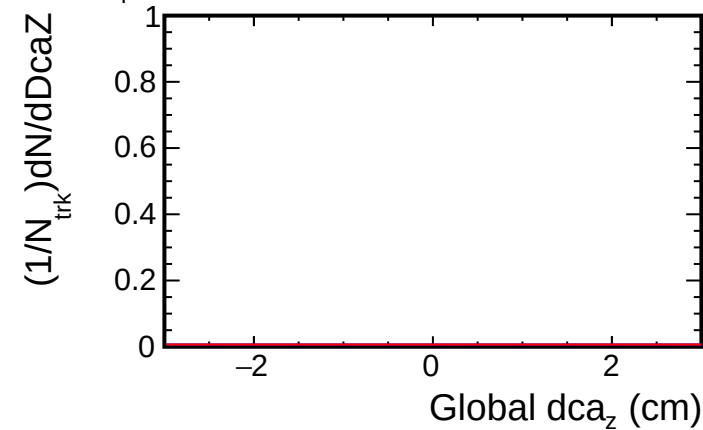
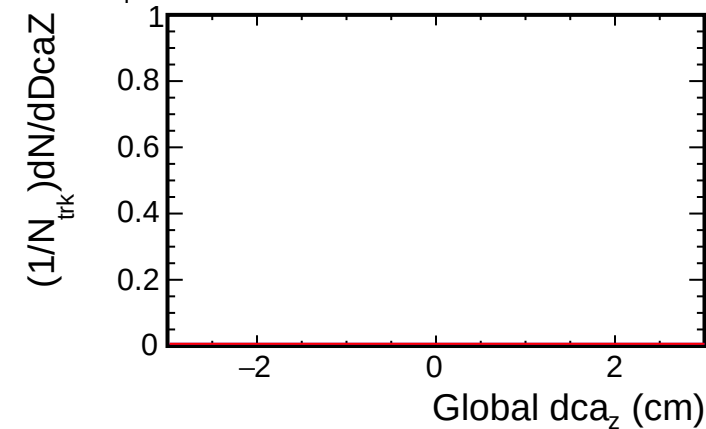
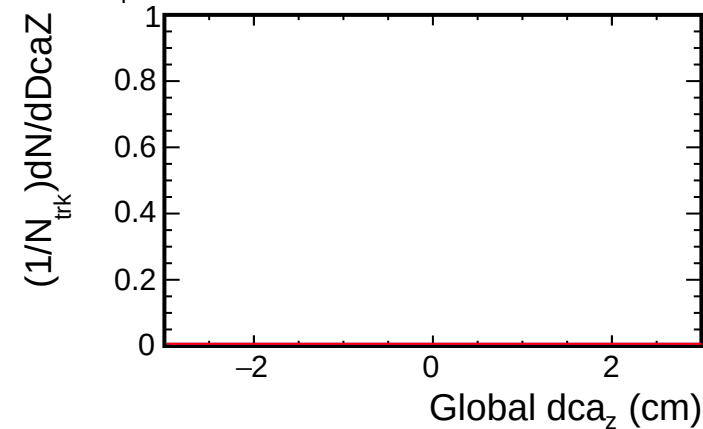
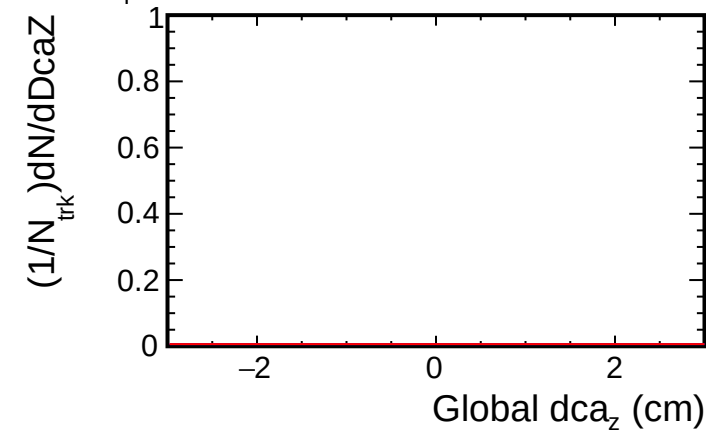
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

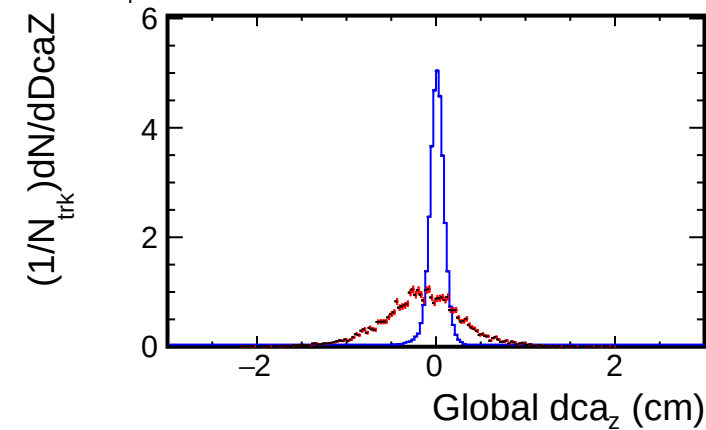
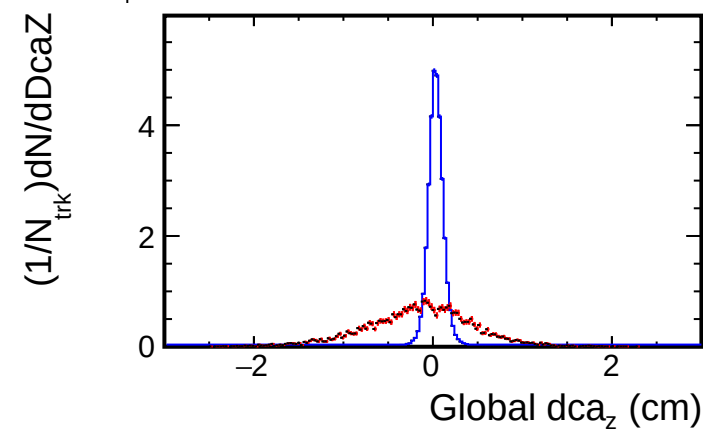
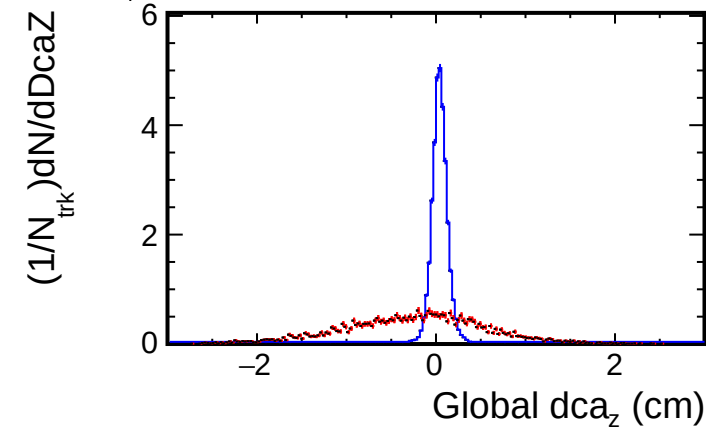
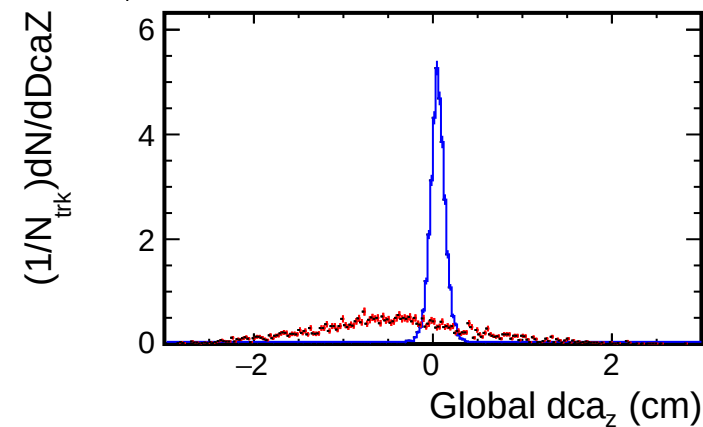
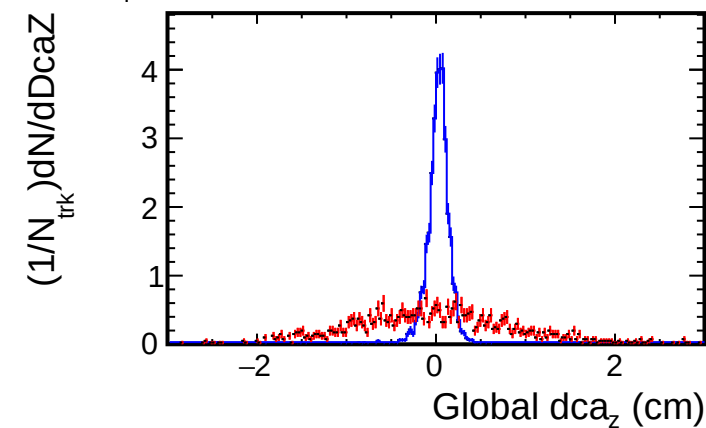
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

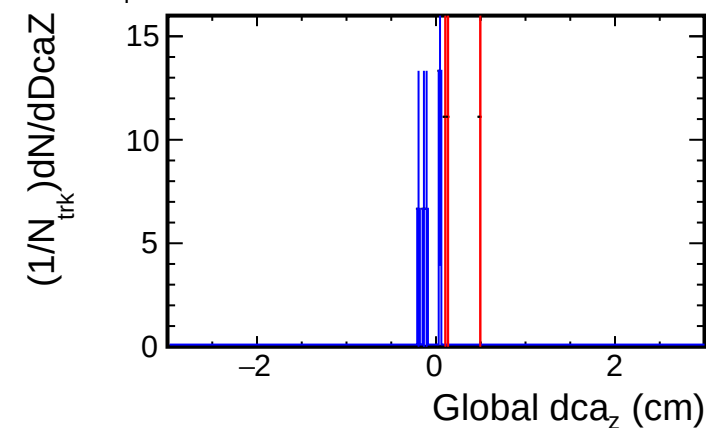
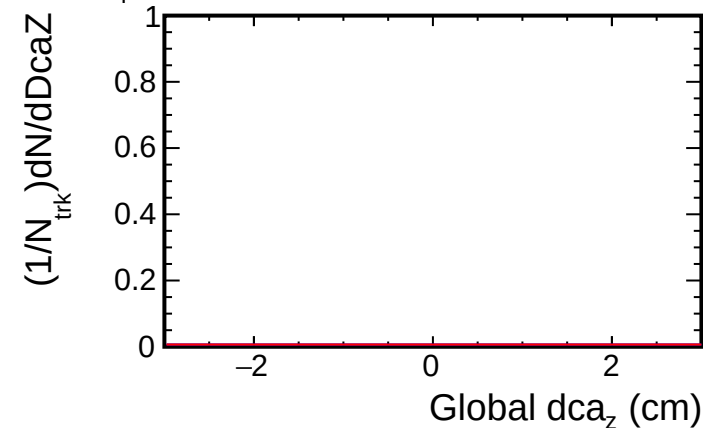
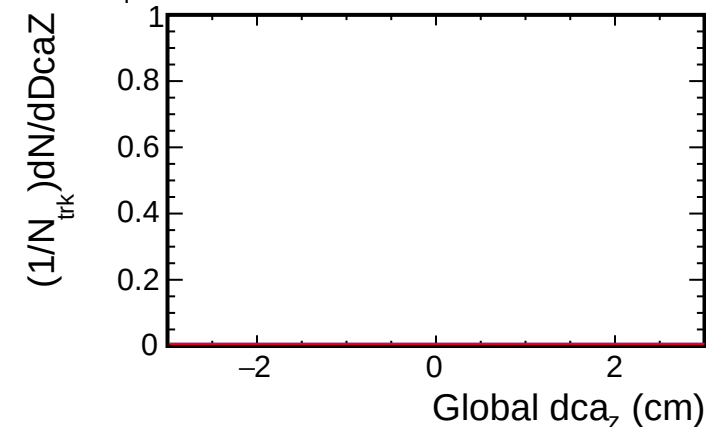
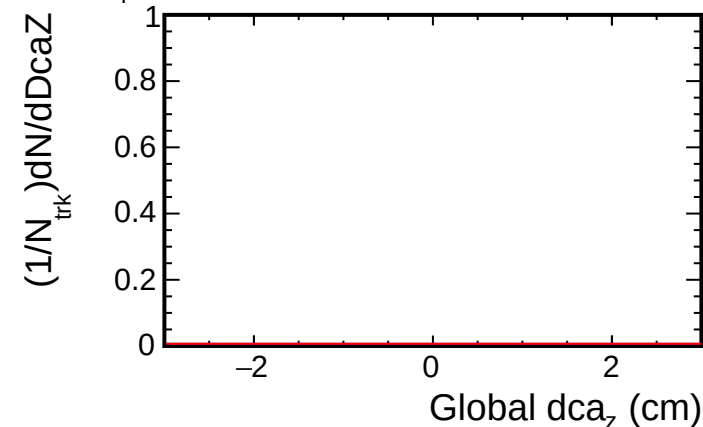
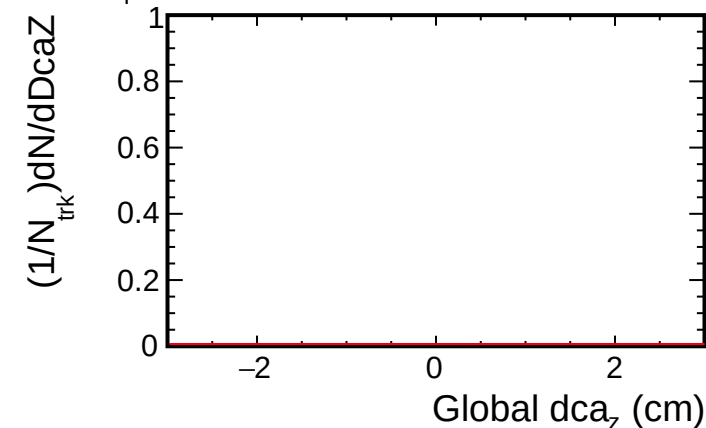
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

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

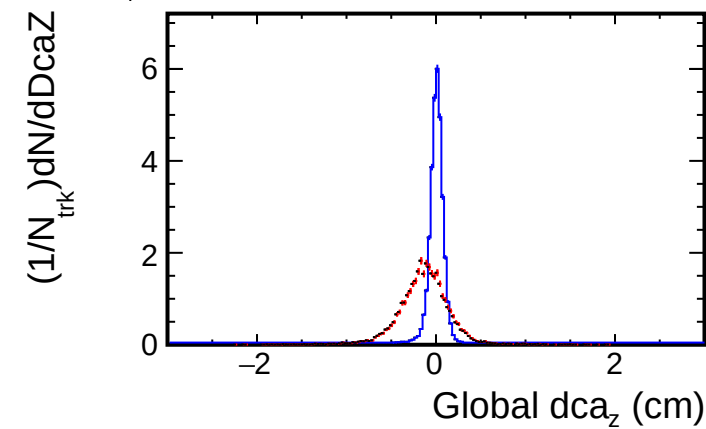
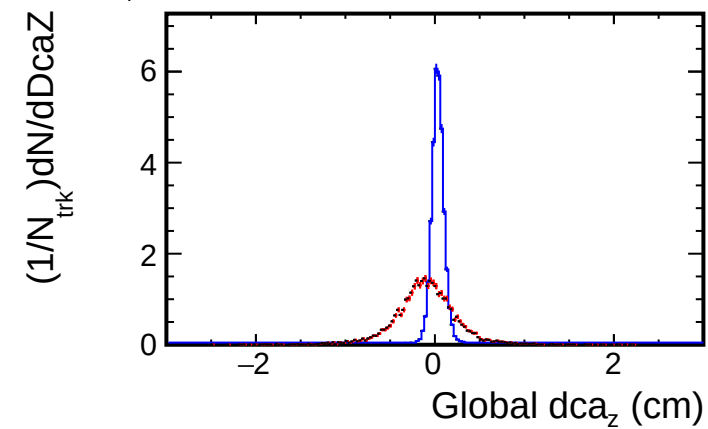
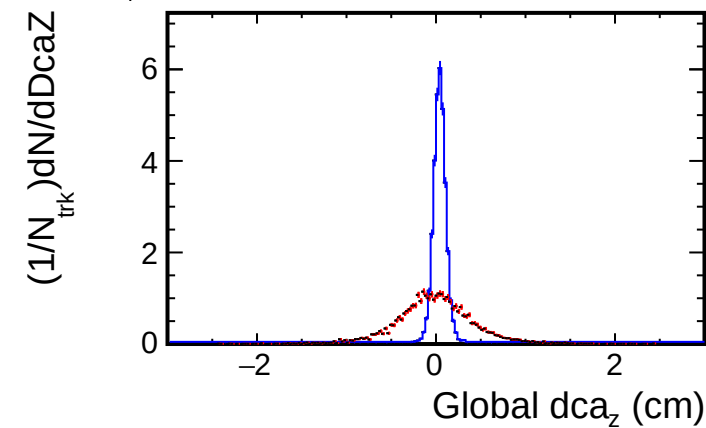
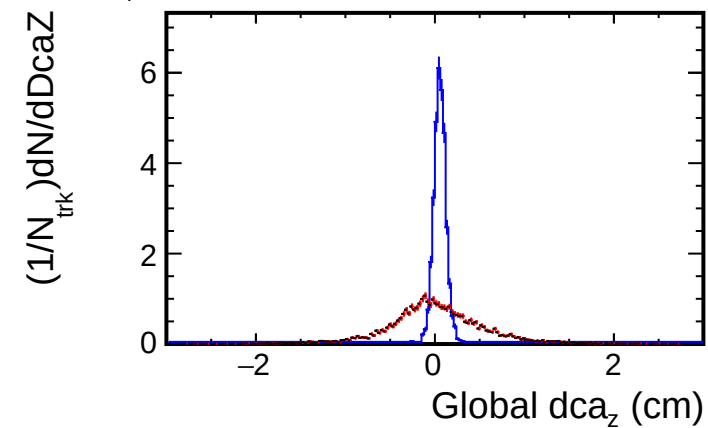
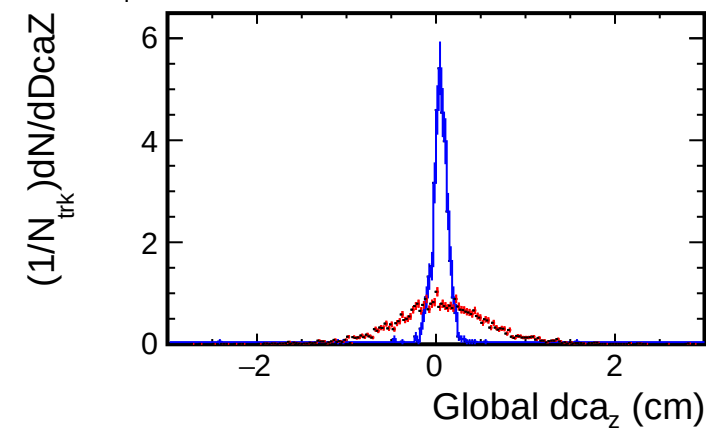
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

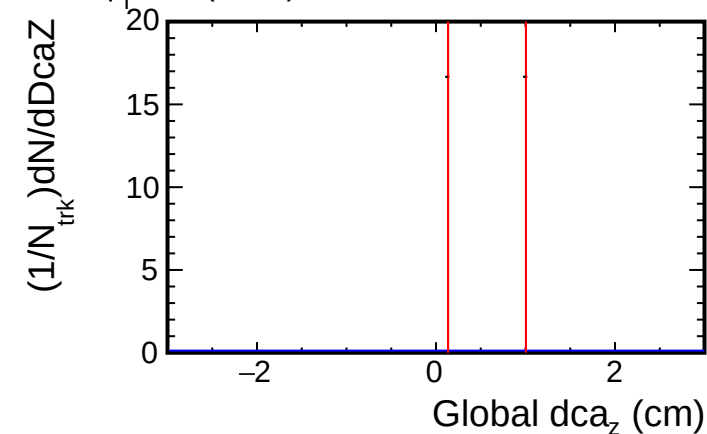
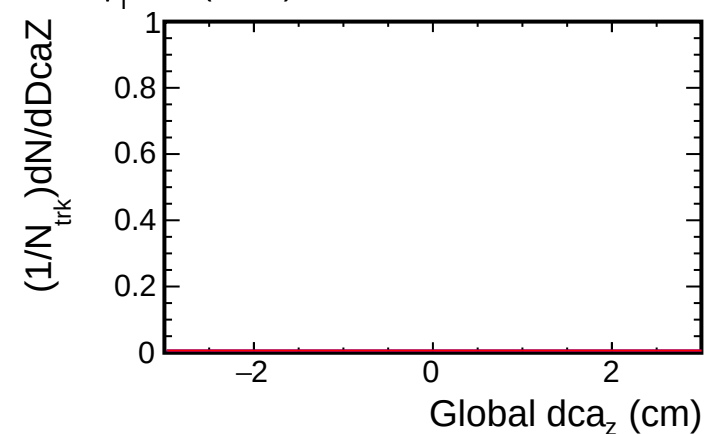
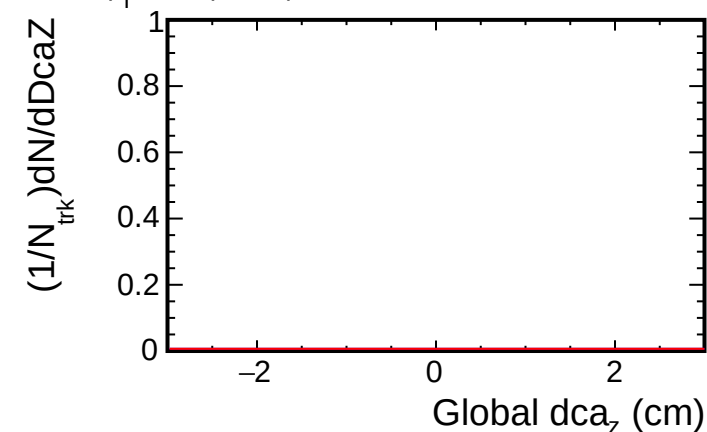
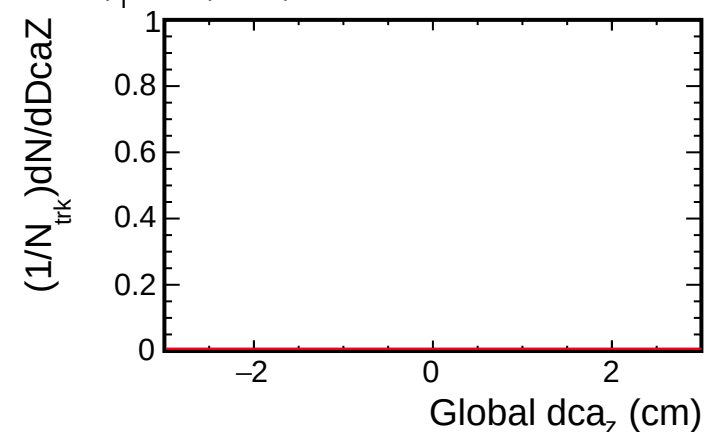
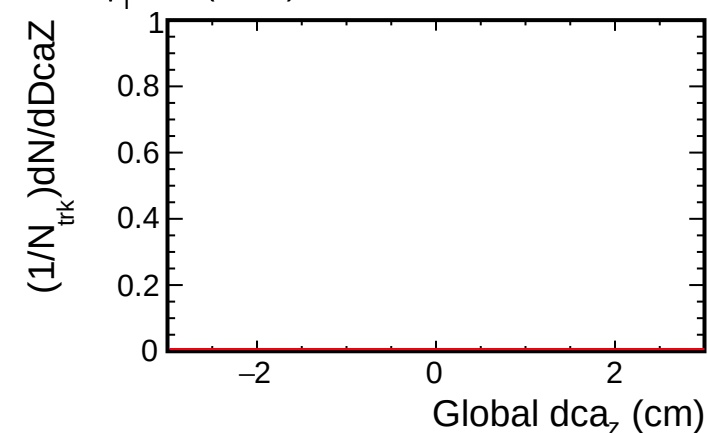
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

DcaZ distribution for (p_T , η) slices1.8, $1.5 < p_T < 2.0$ (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)

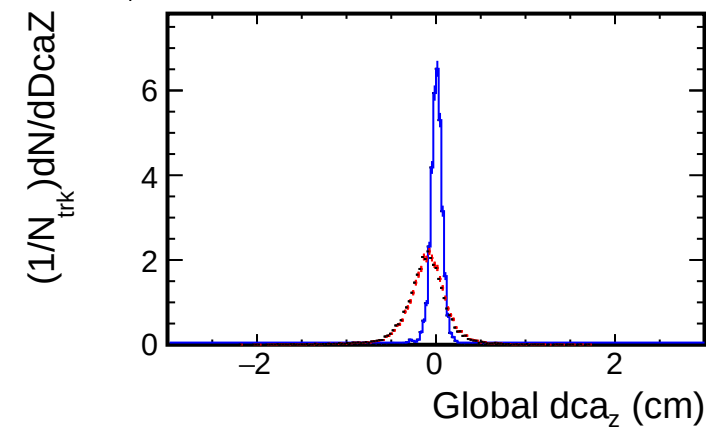
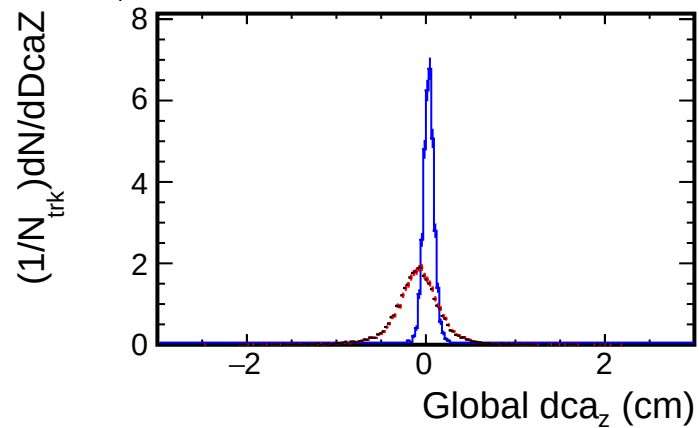
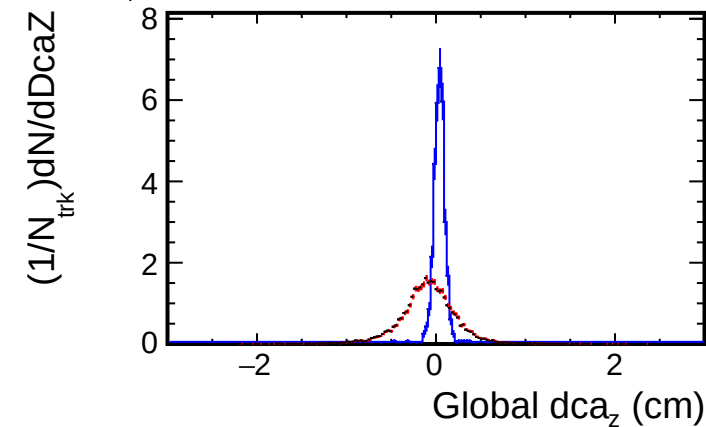
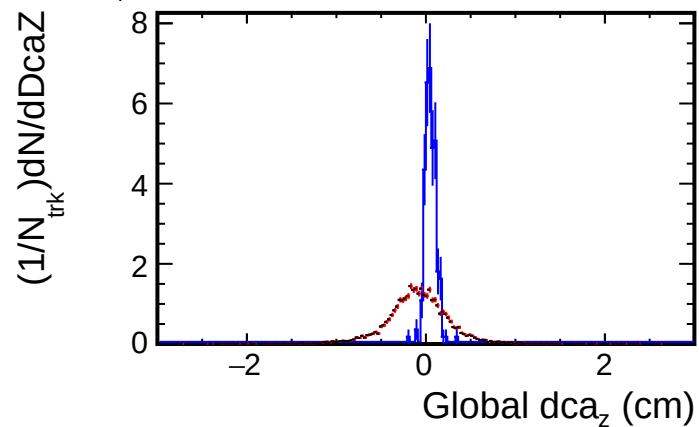
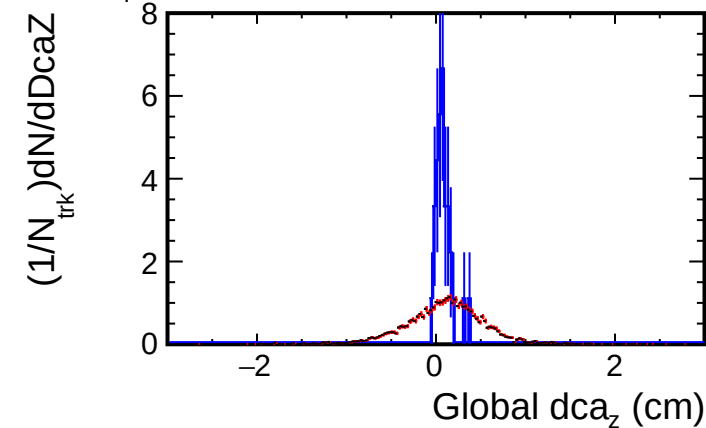
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

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)

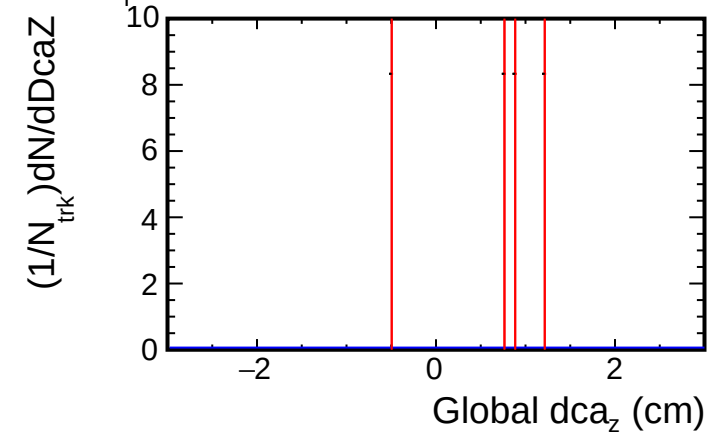
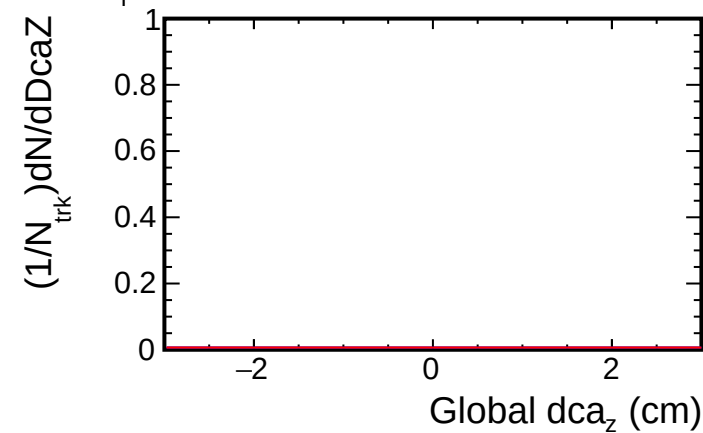
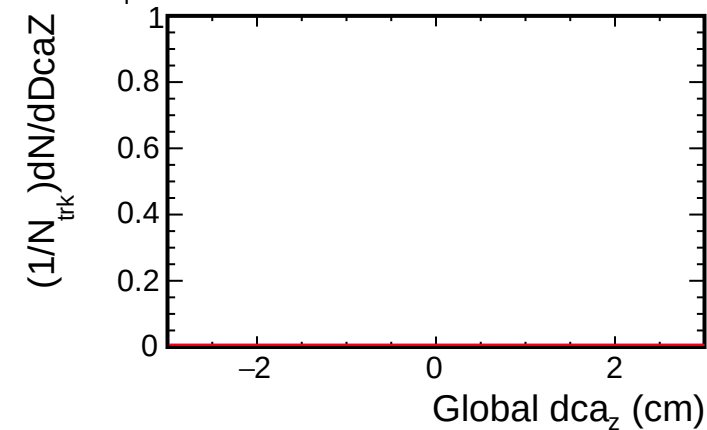
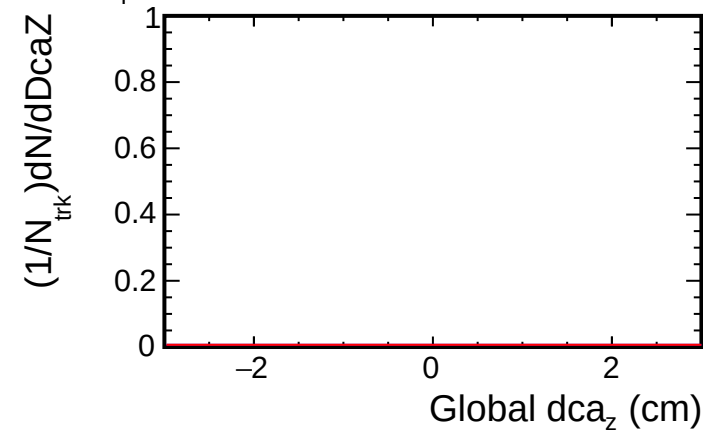
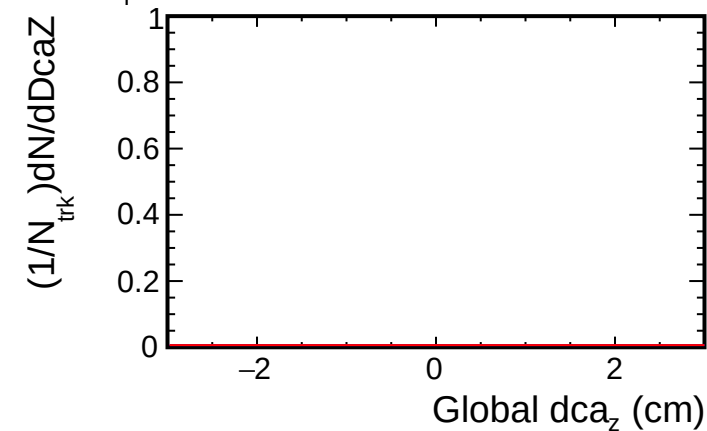
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

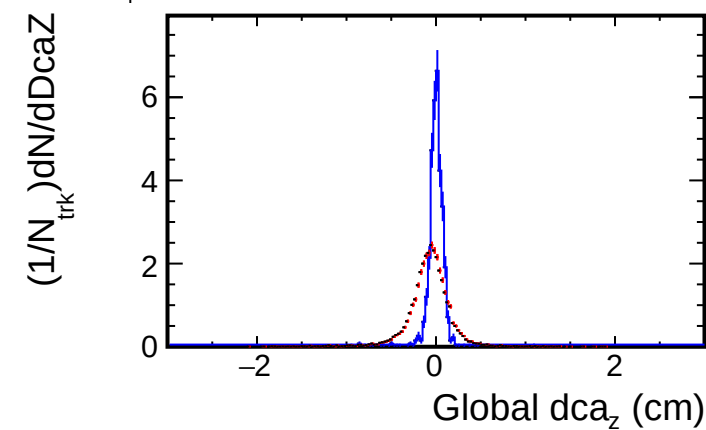
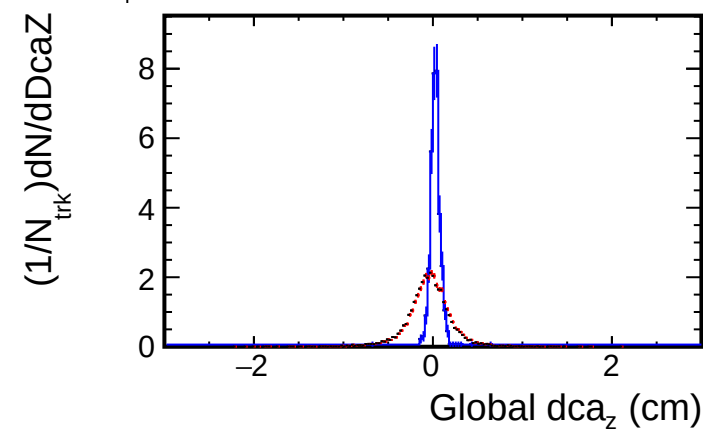
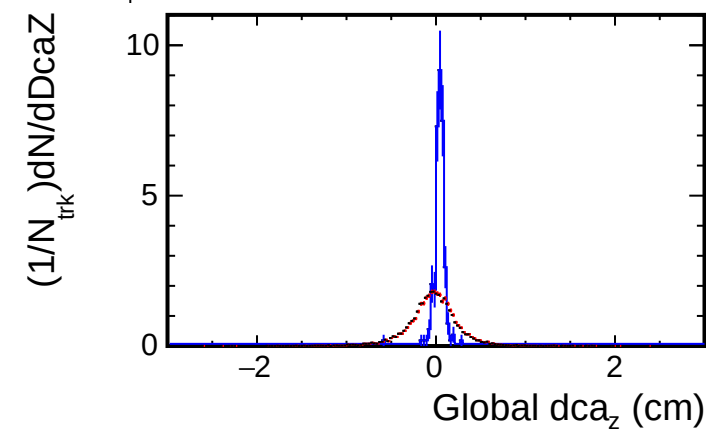
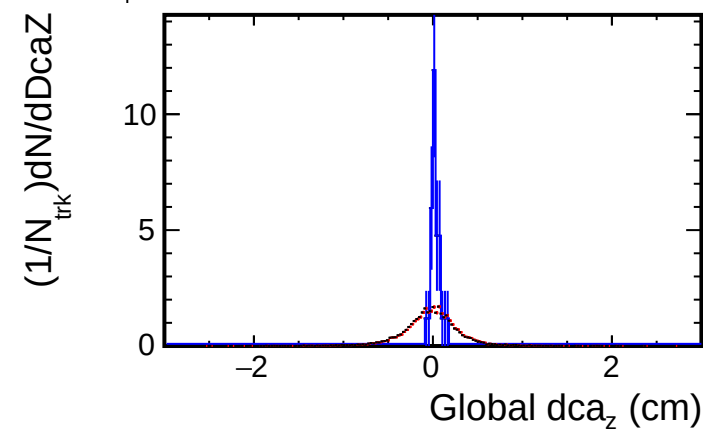
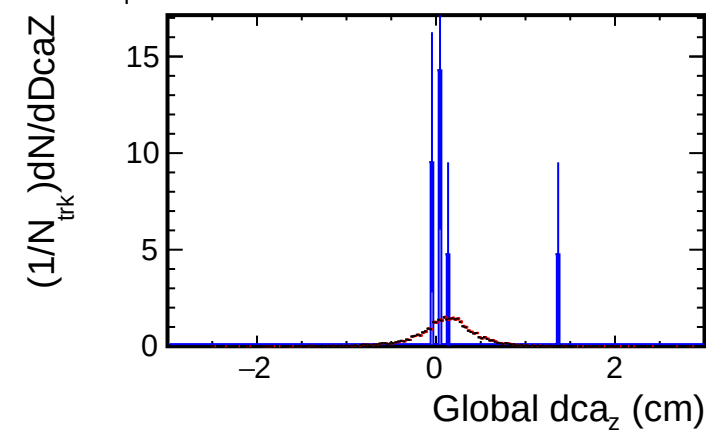
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

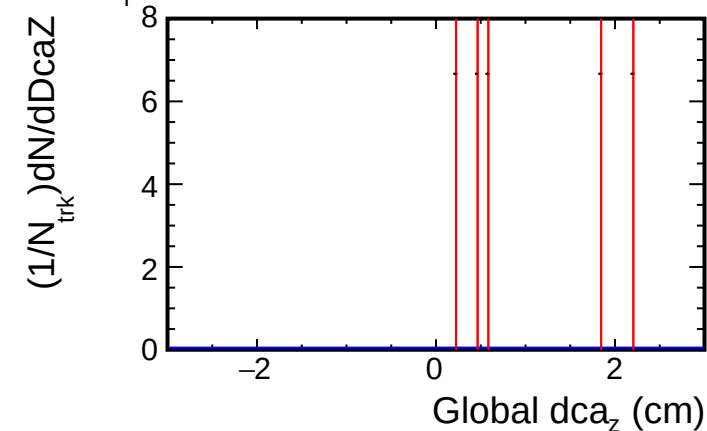
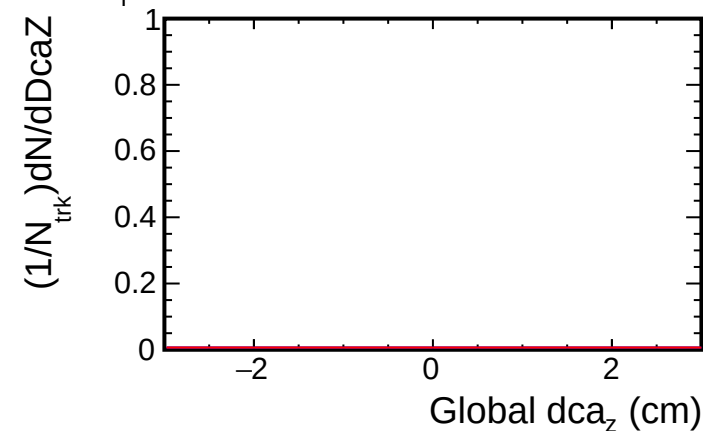
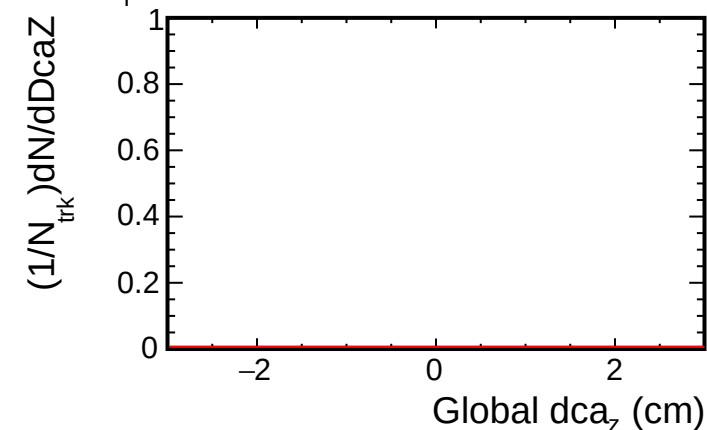
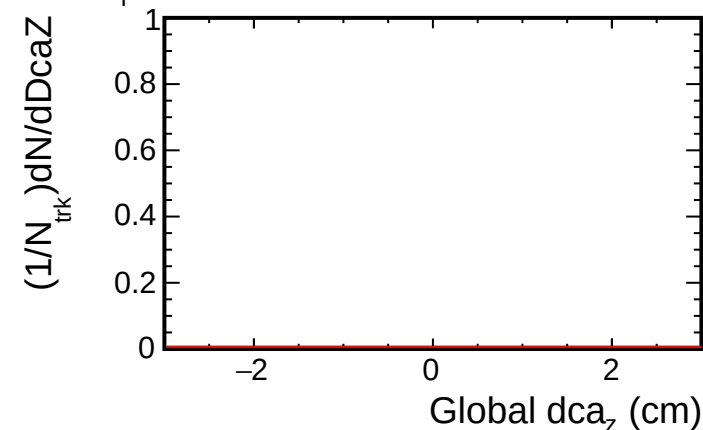
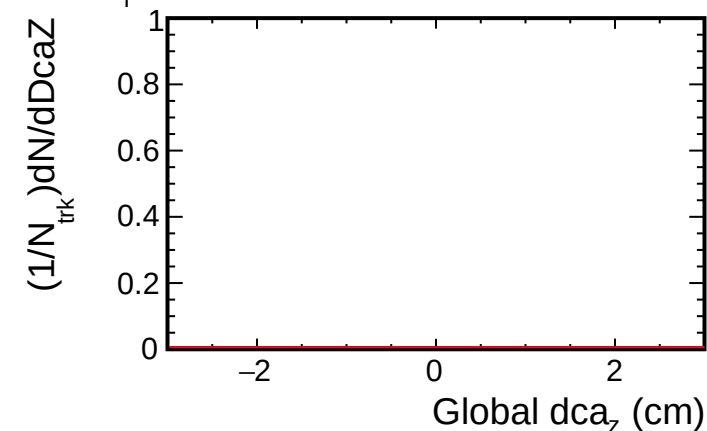
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— pi+
(PRIMARY, |n σ_{pi+}| < 2 TPC)

DcaZ 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)

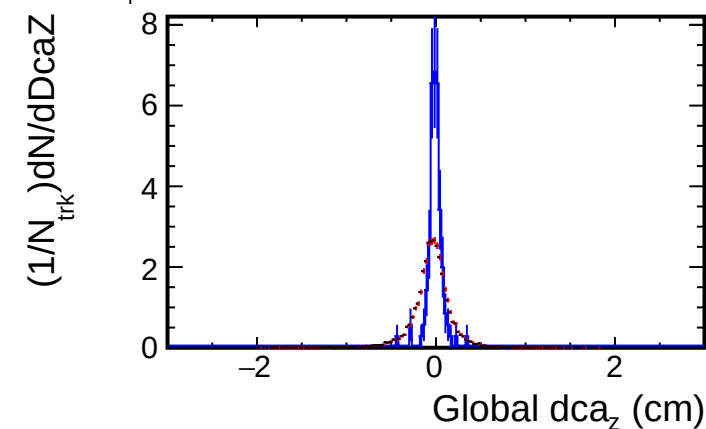
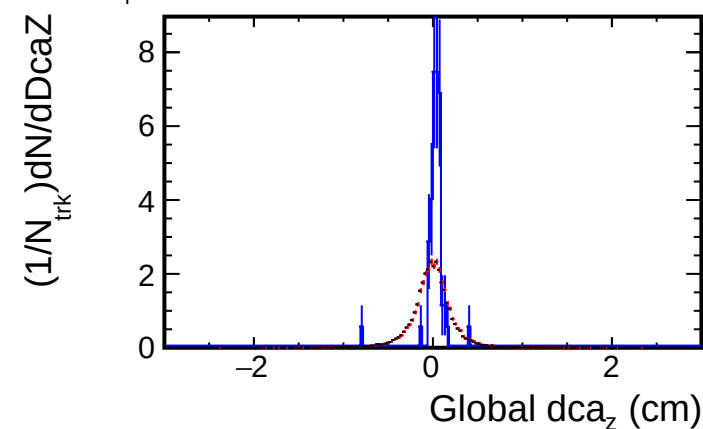
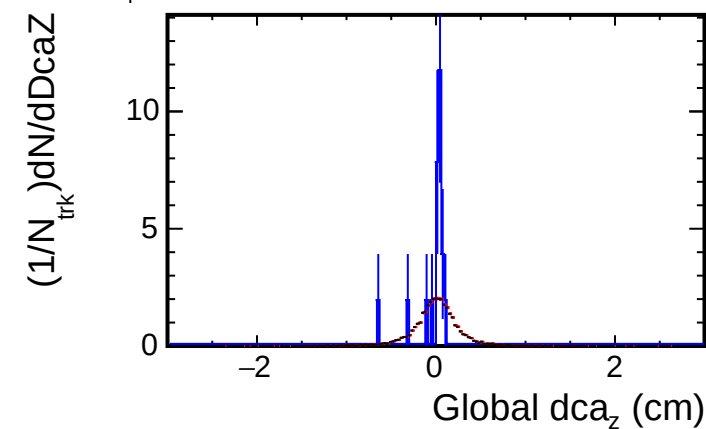
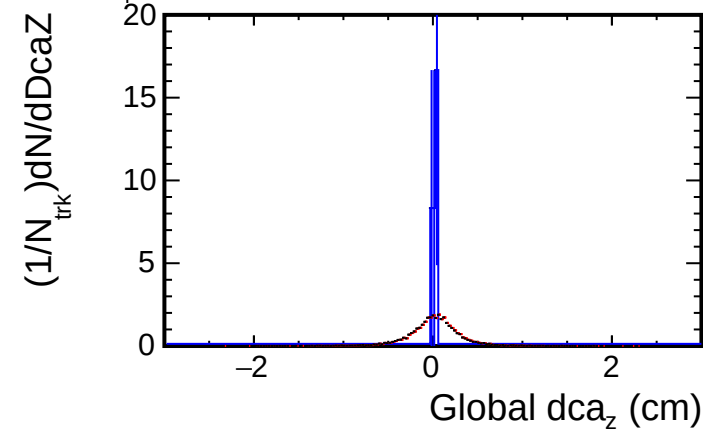
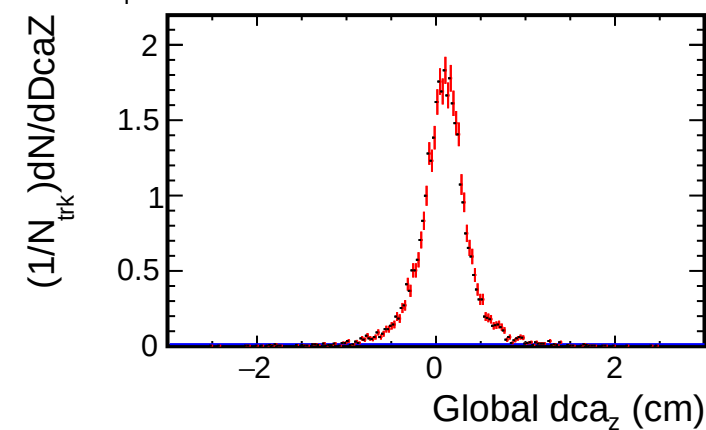
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

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)

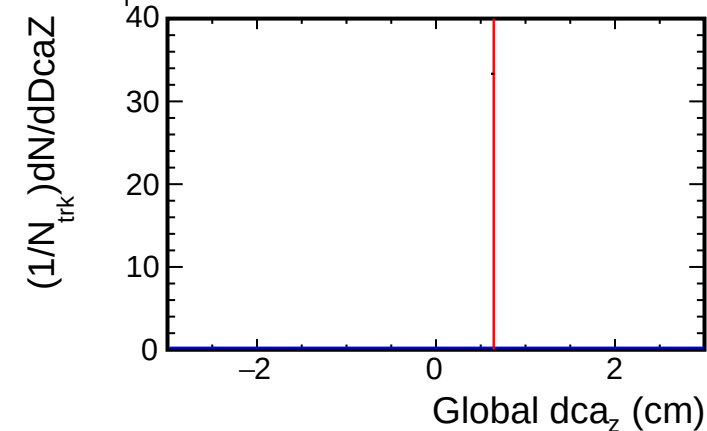
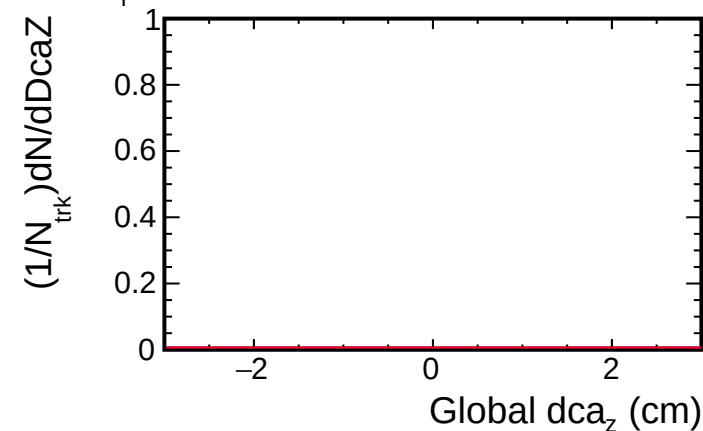
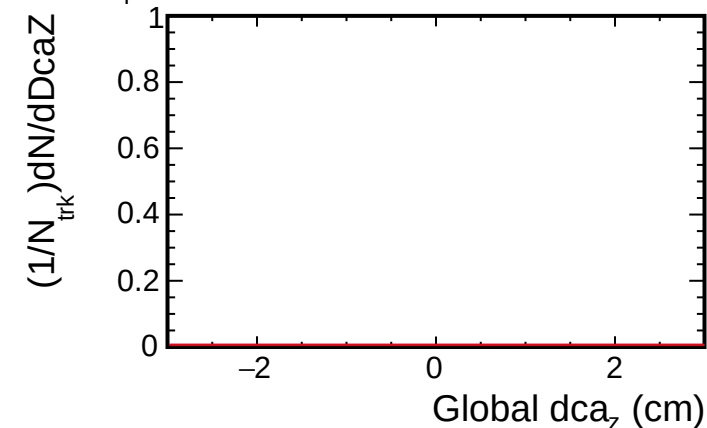
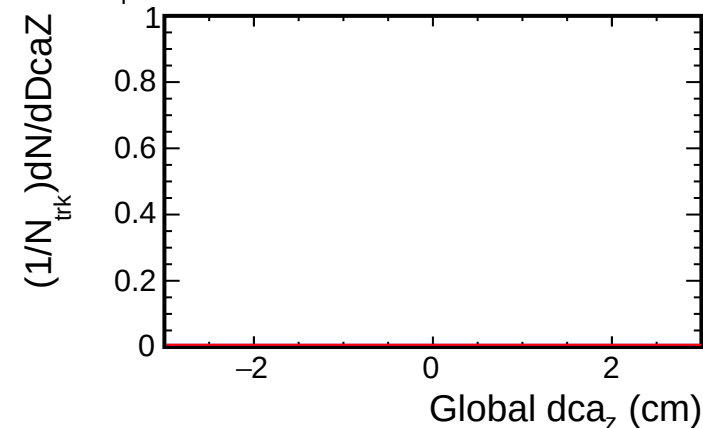
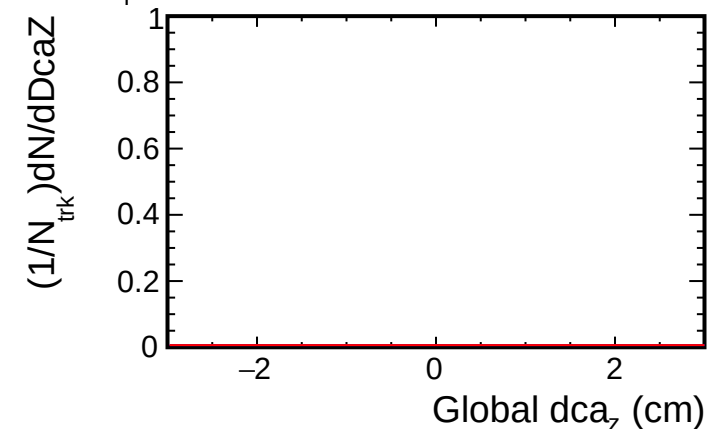
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

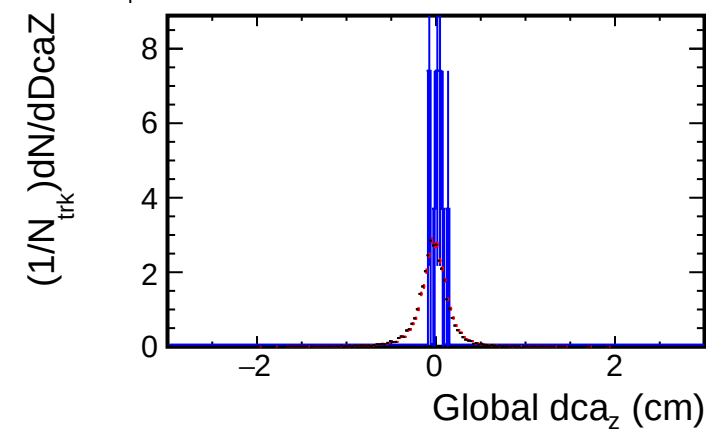
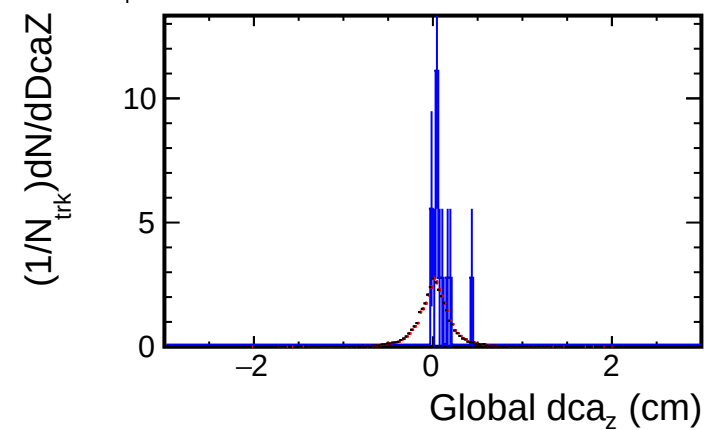
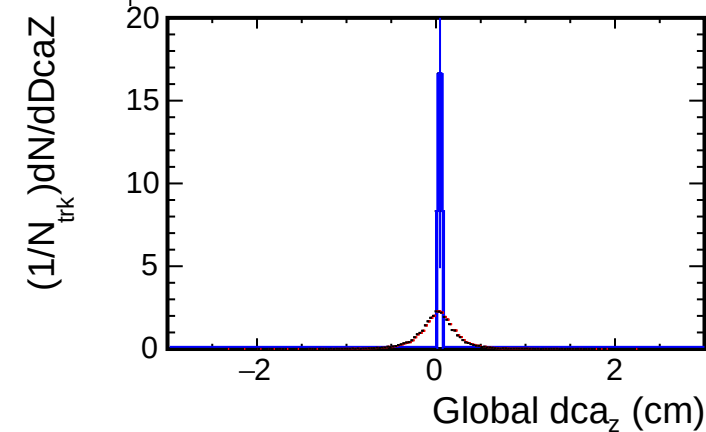
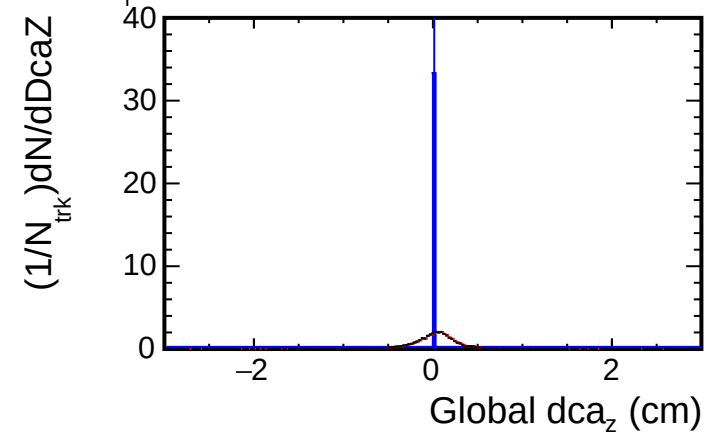
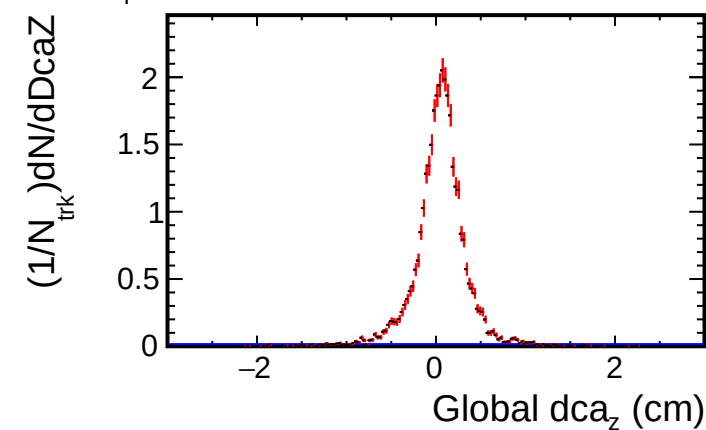
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

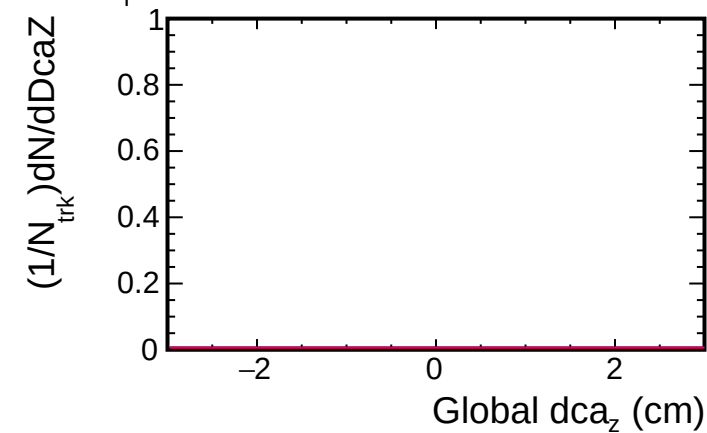
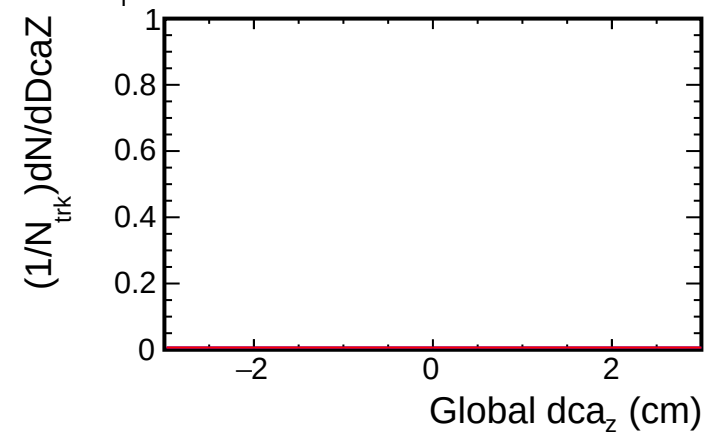
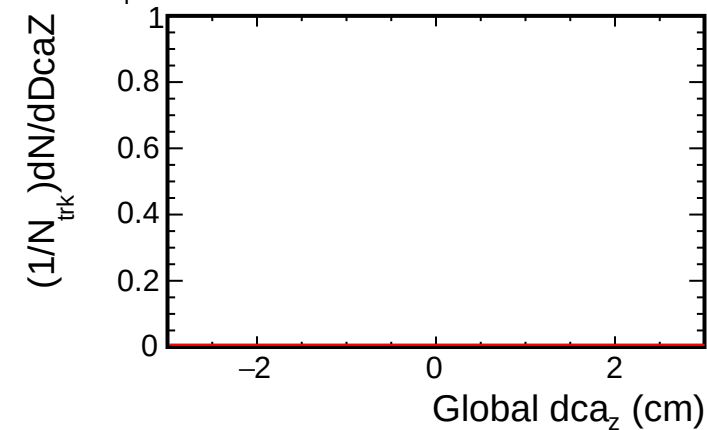
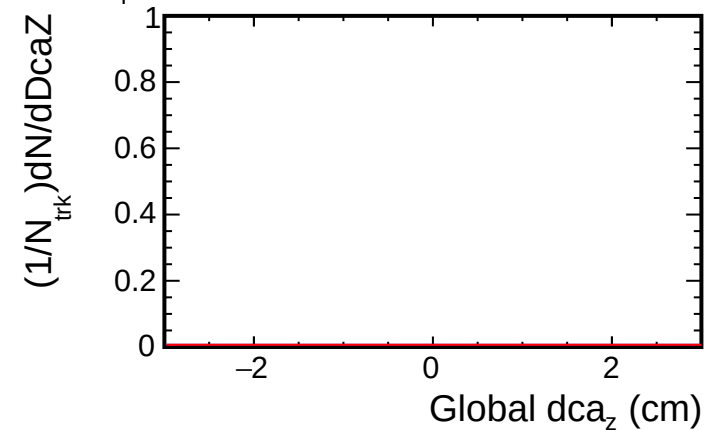
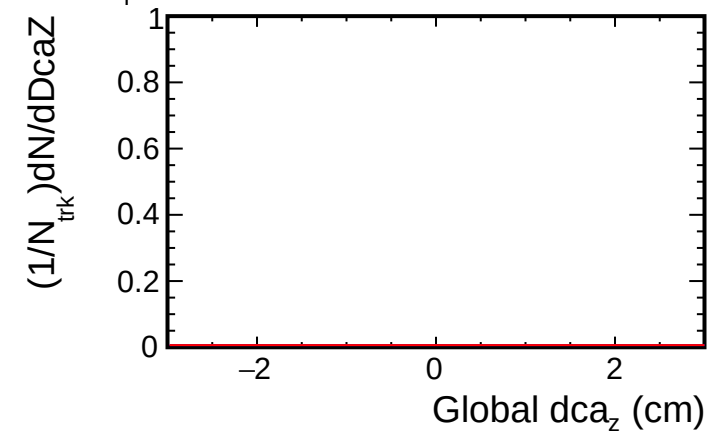
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

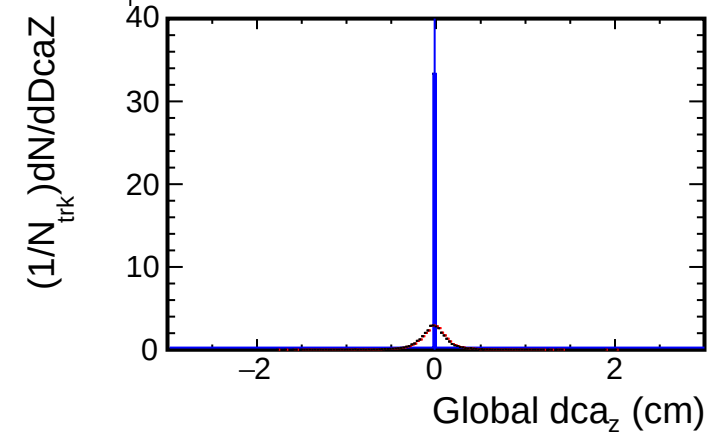
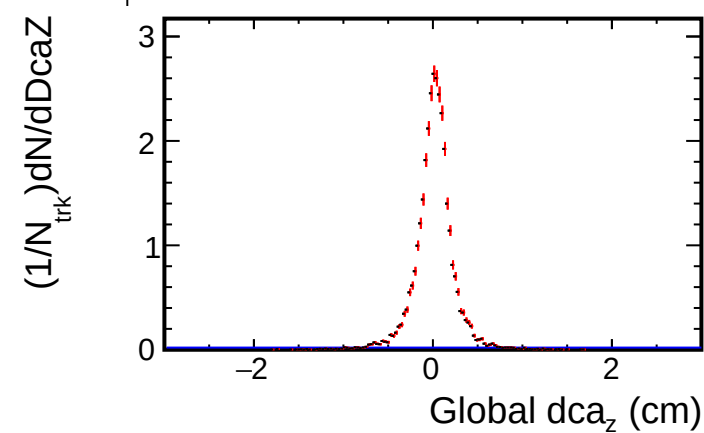
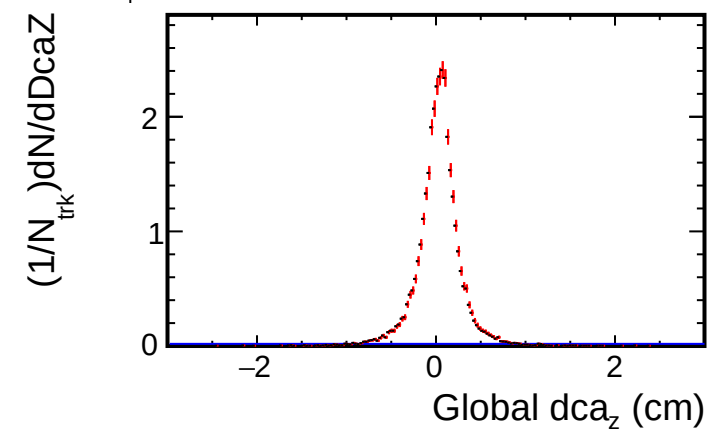
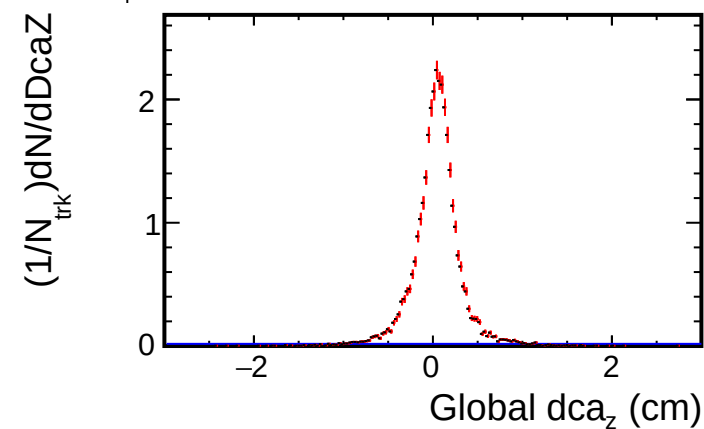
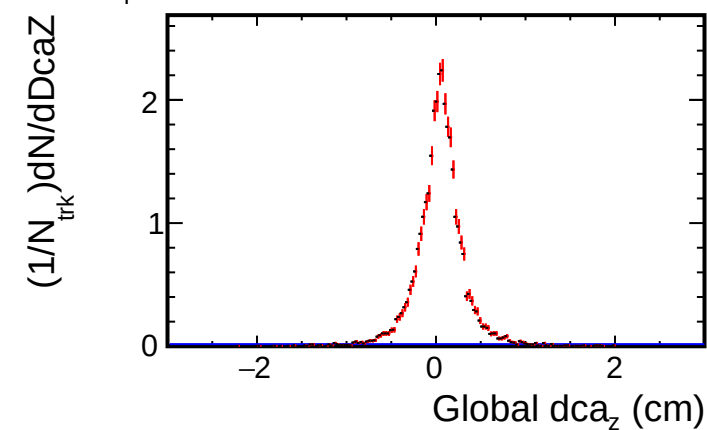
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

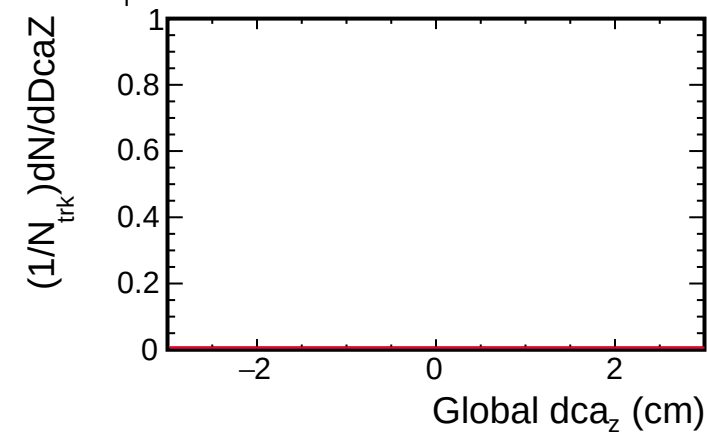
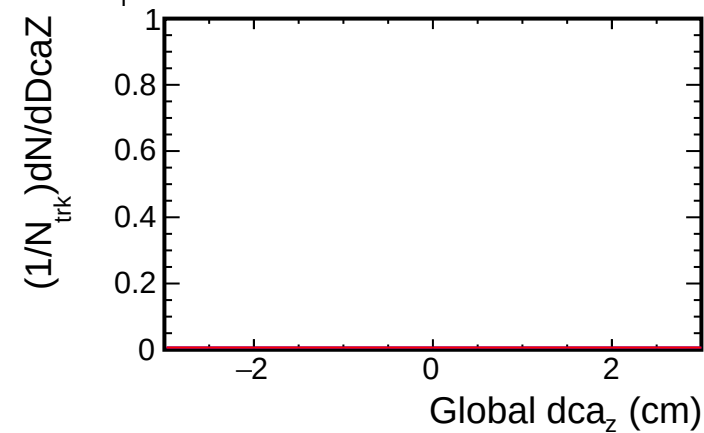
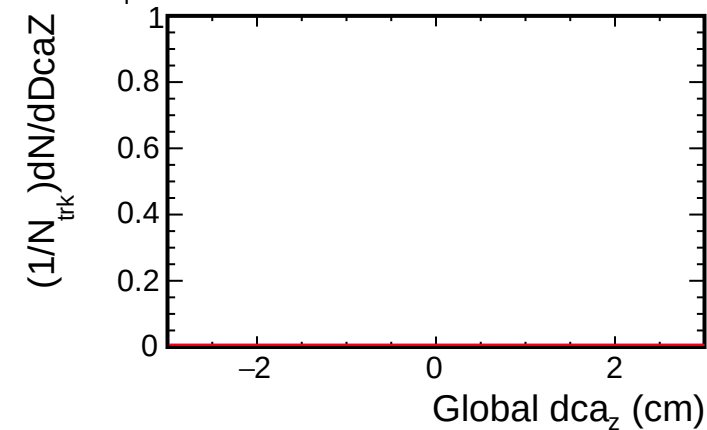
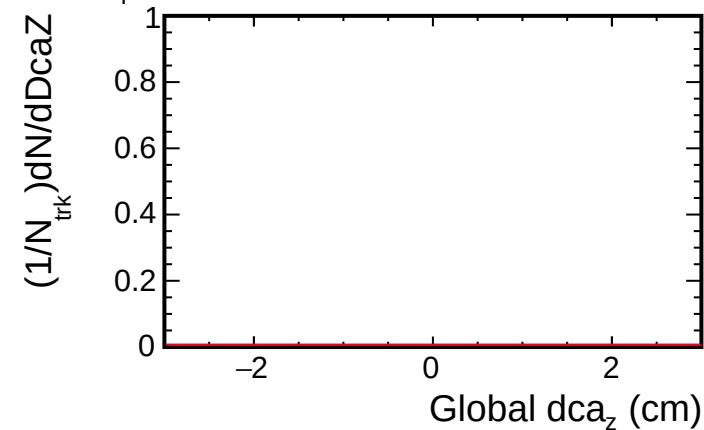
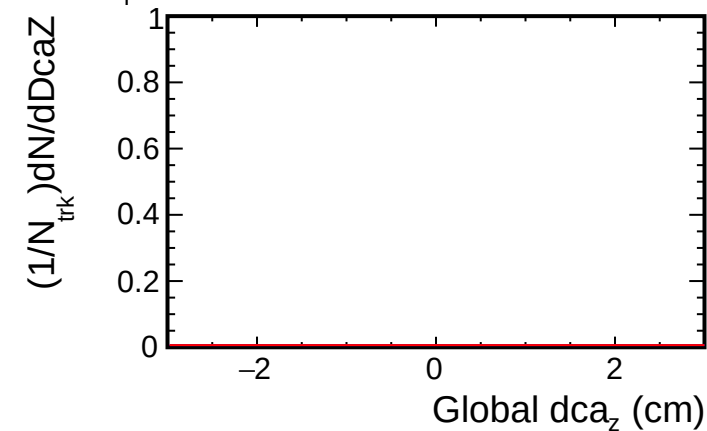
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— pi+
(PRIMARY, |n σ_{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)

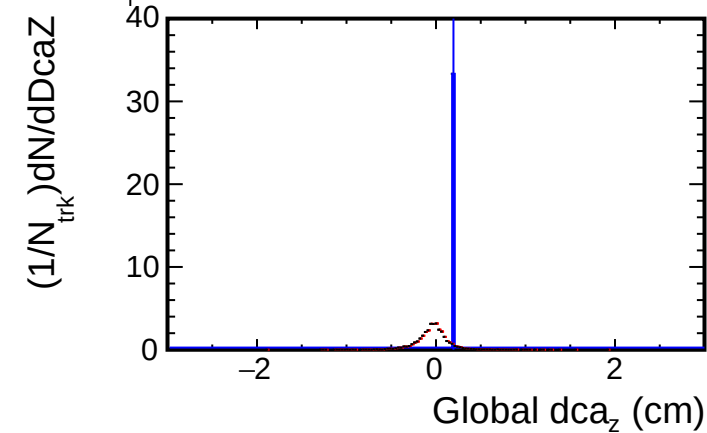
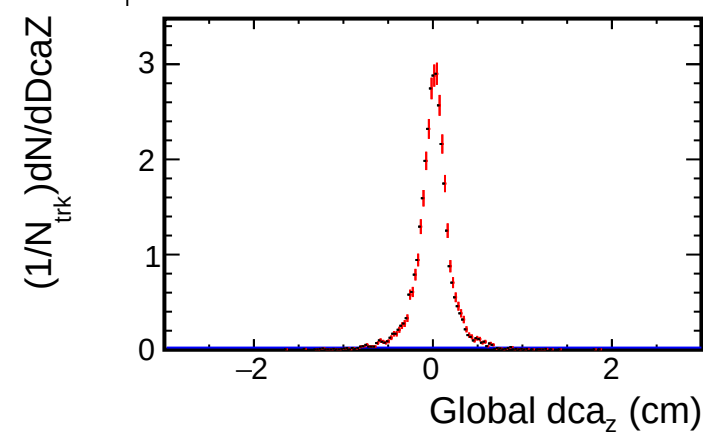
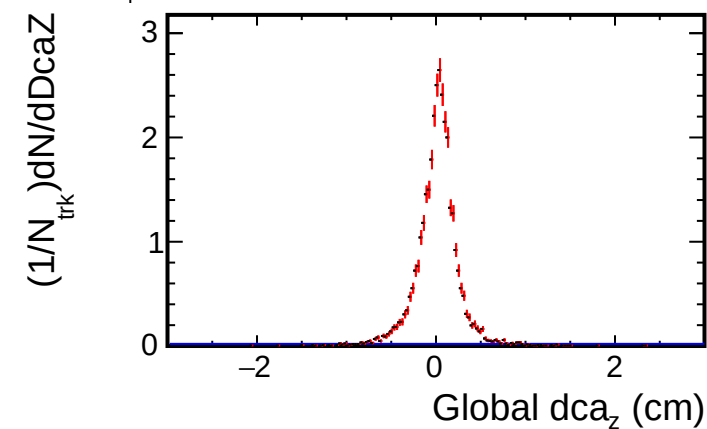
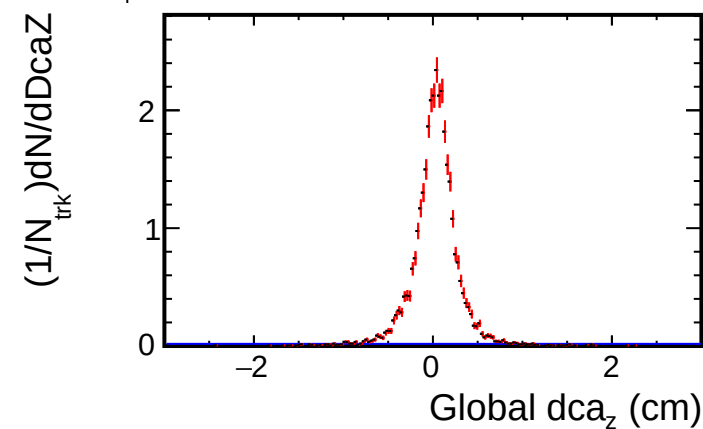
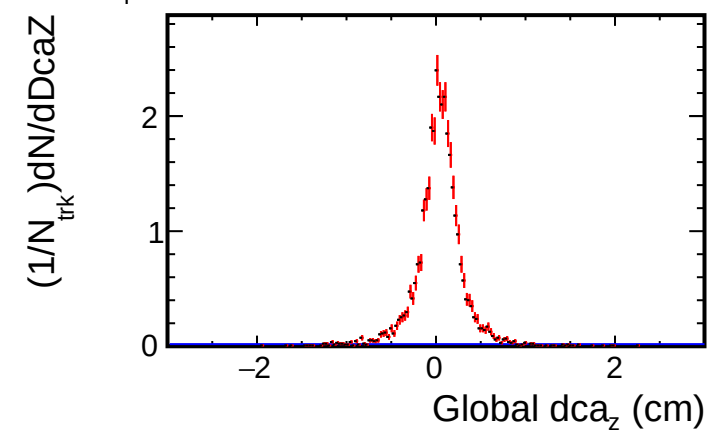
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

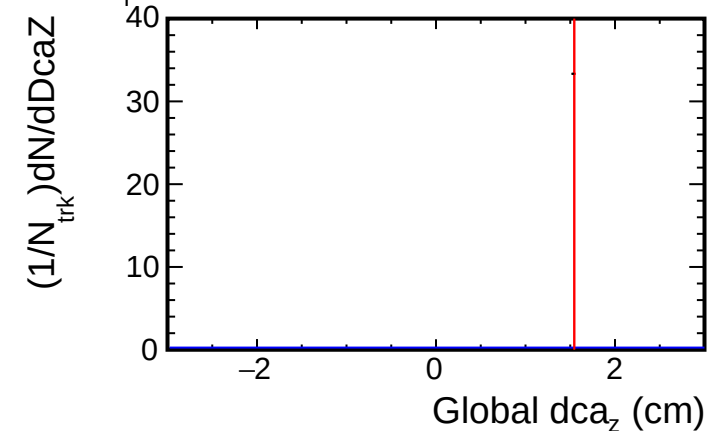
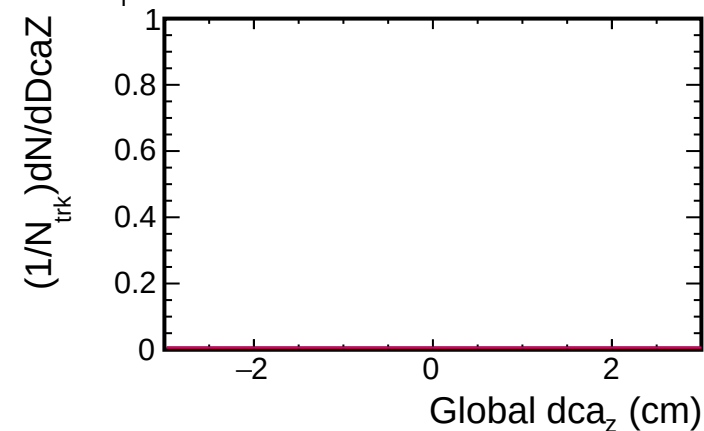
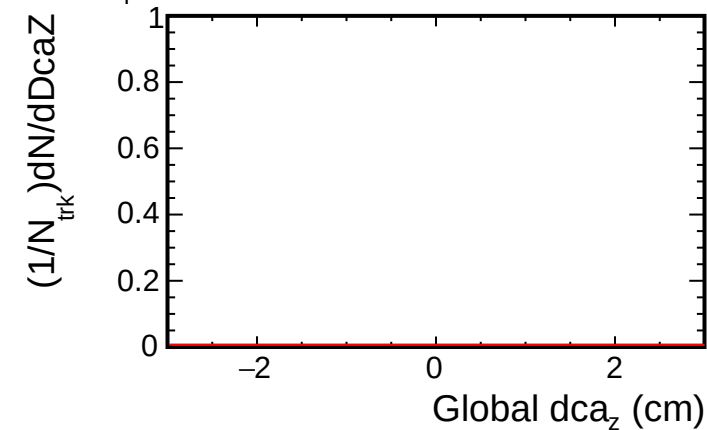
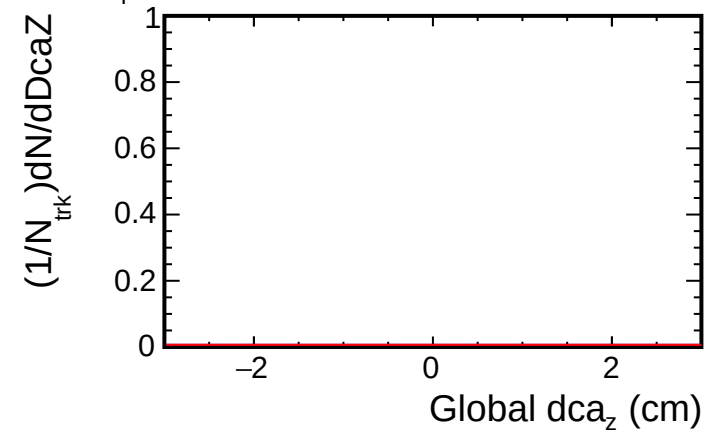
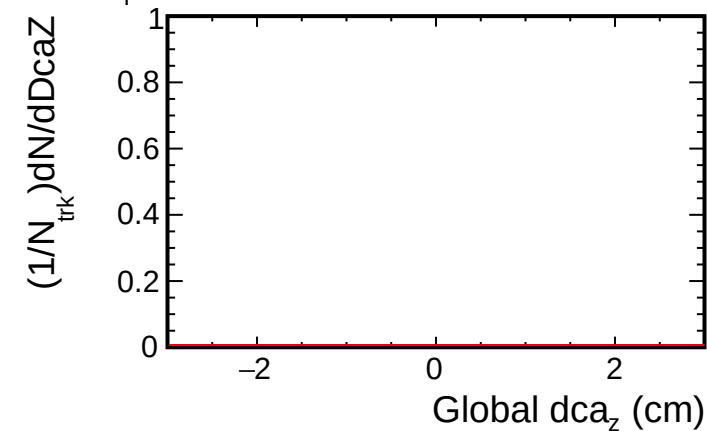
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

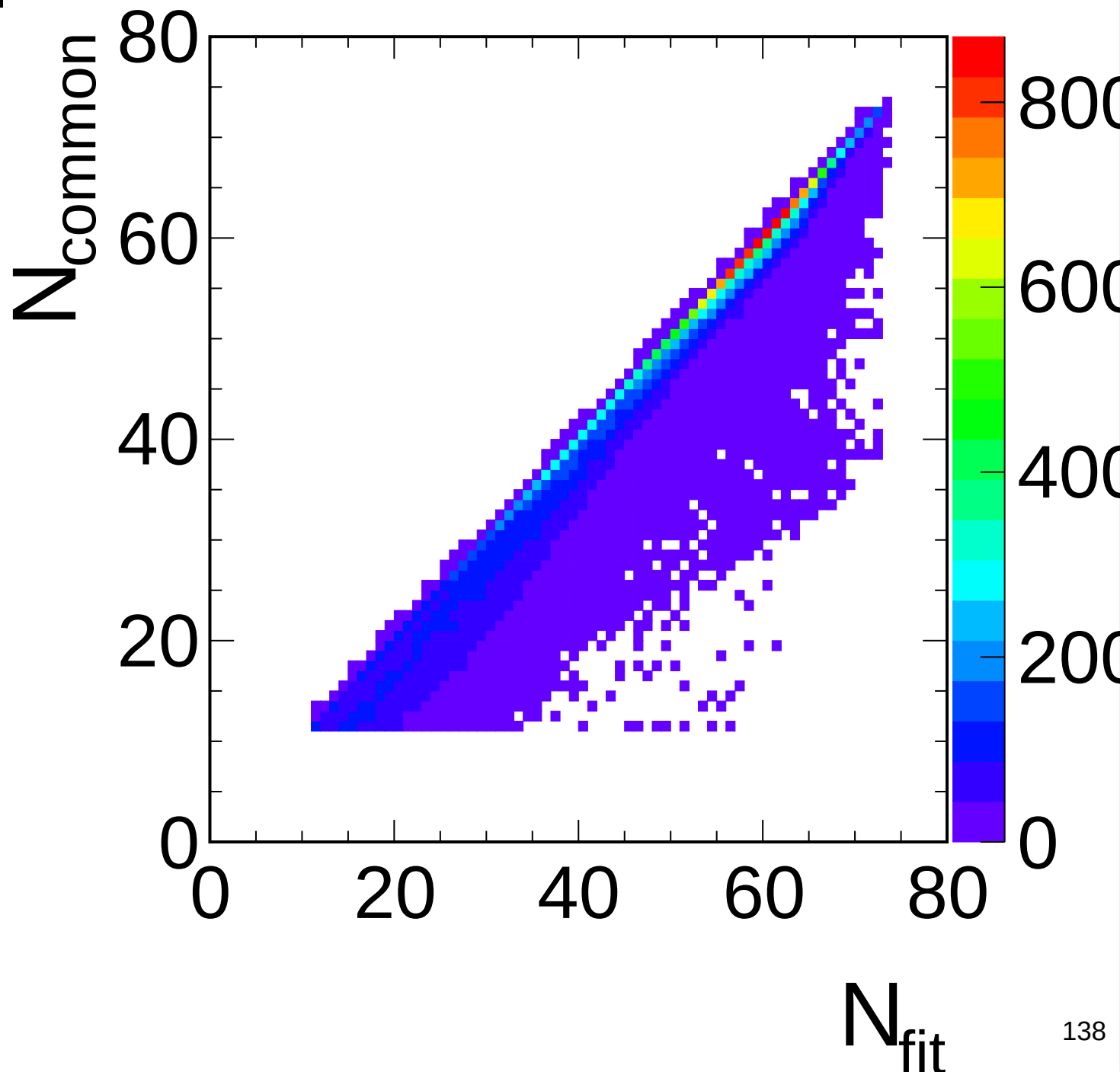
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

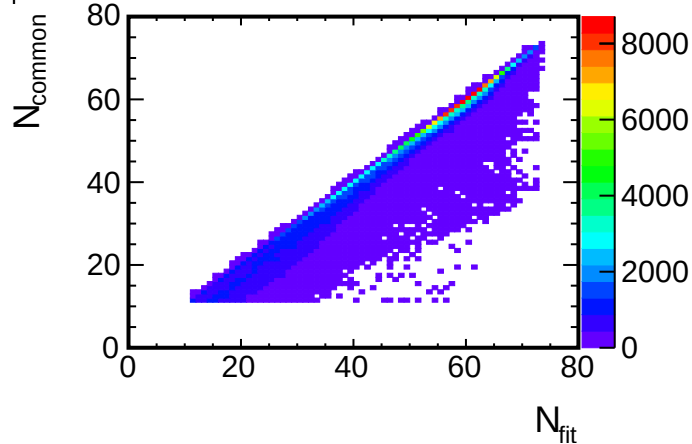
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

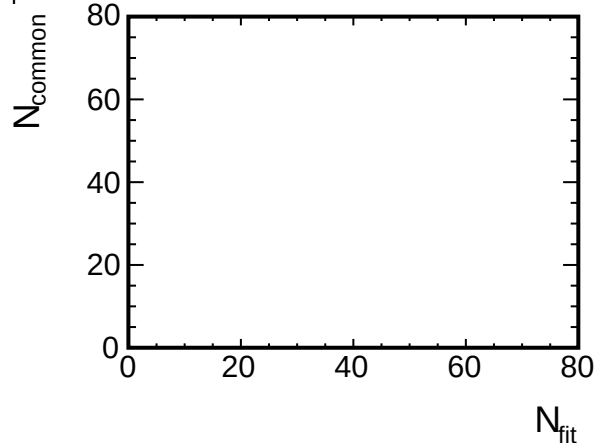
N_{common} vs N_{hit} (Embedding:pi-, Real:pi-) $p_T < 5.0 \text{ GeV/c}$ 

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

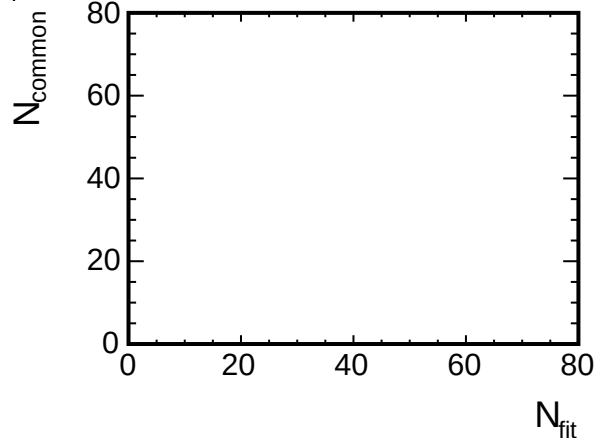
$< p_T < 0.5$ GeV/c



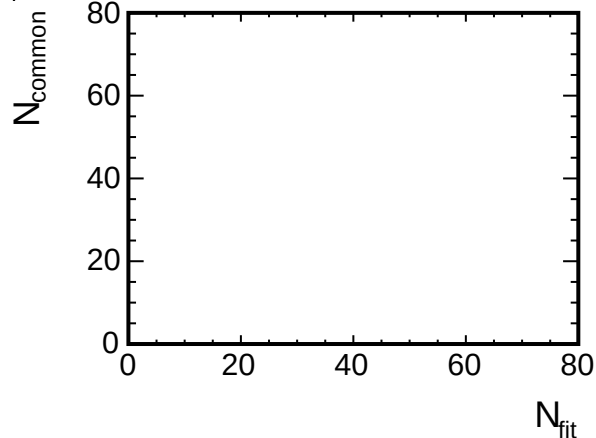
$< p_T < 1.0$ GeV/c



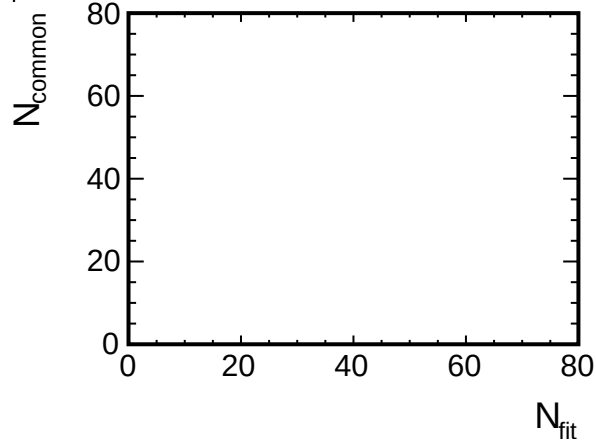
$< p_T < 1.5$ GeV/c

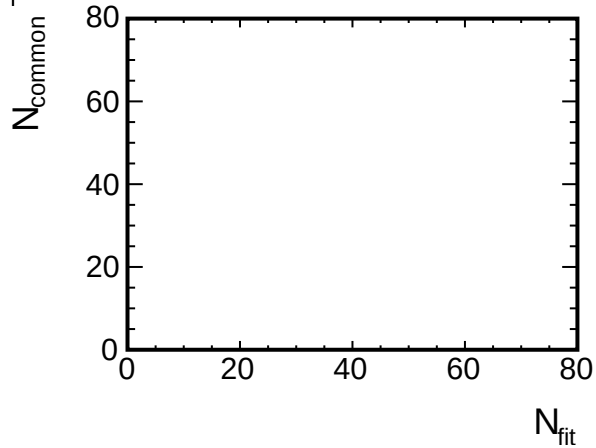
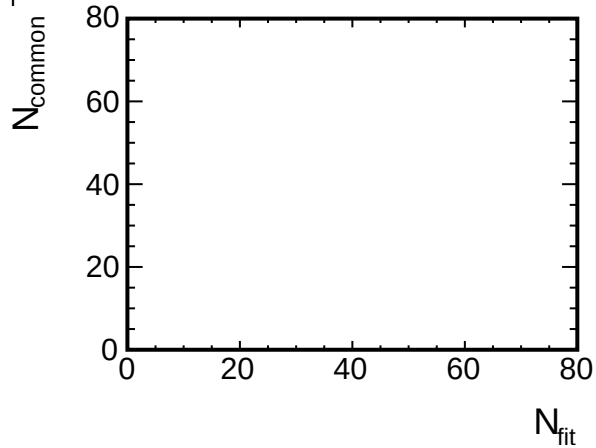
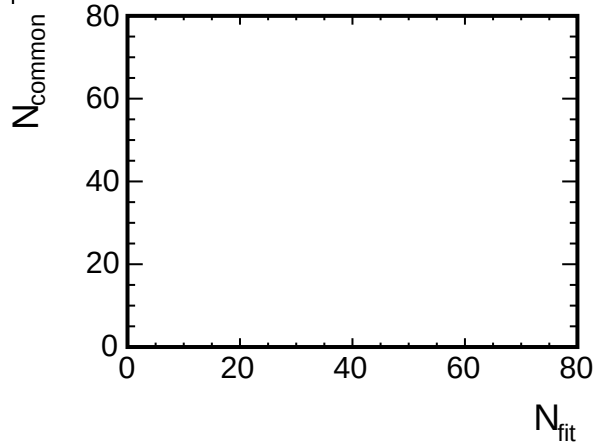
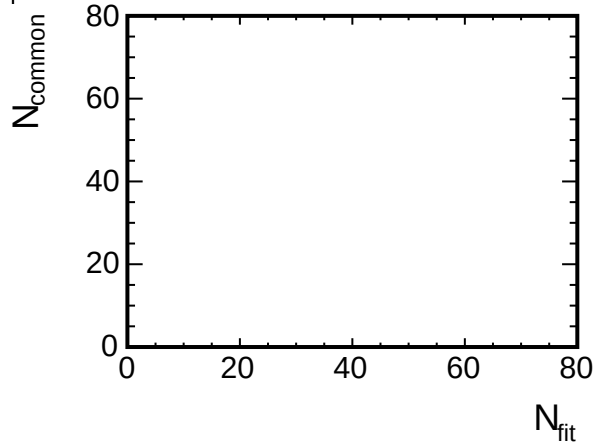
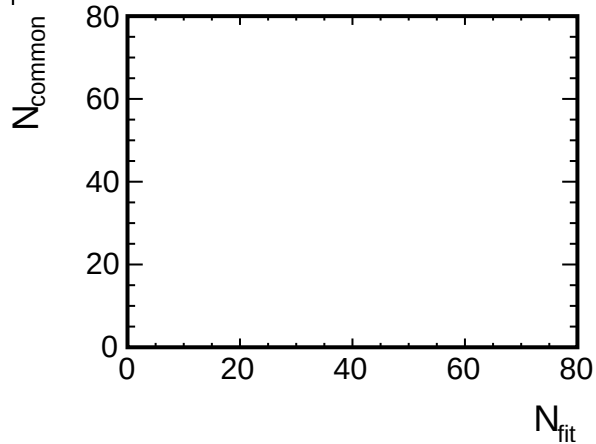


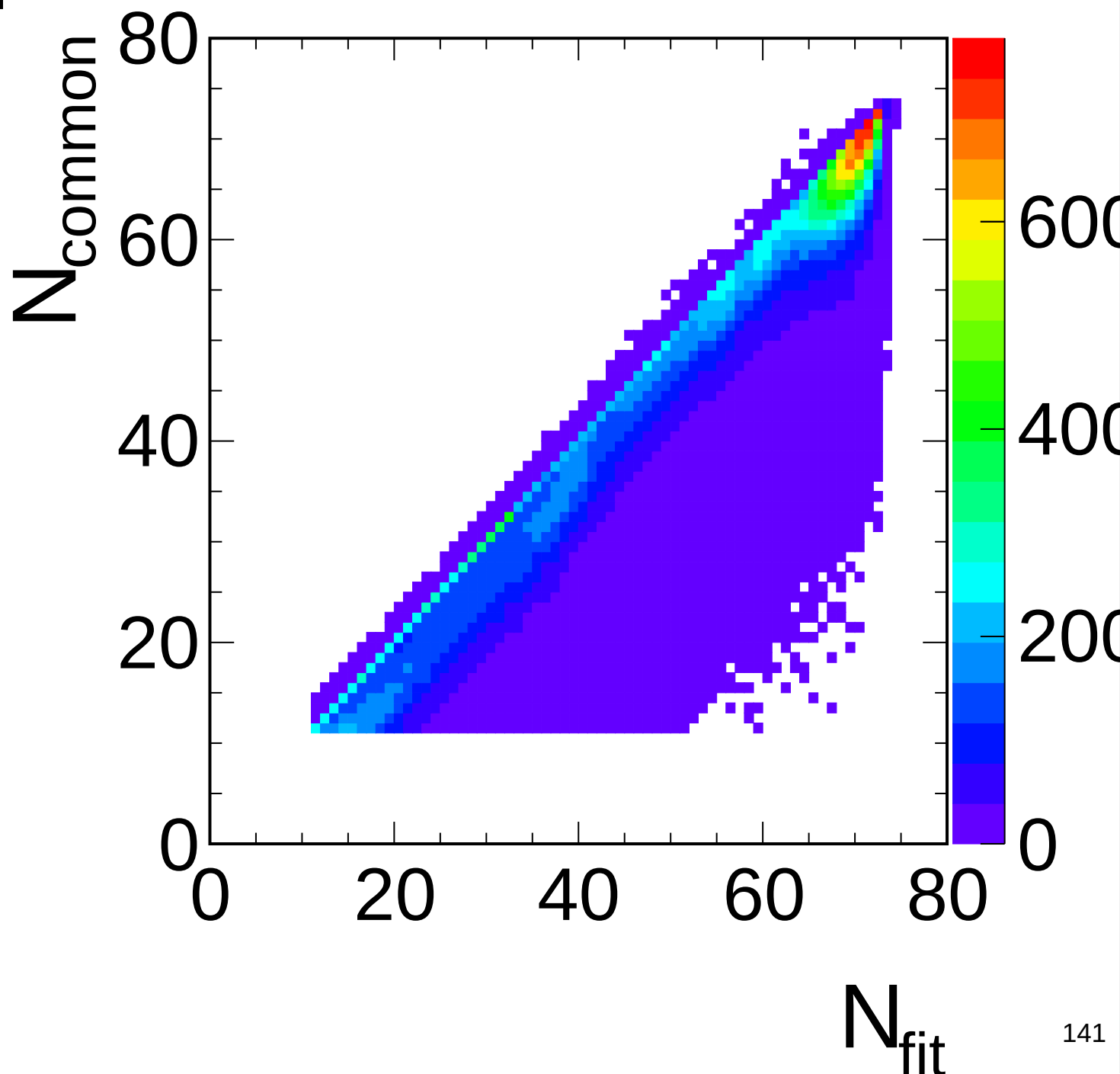
$< p_T < 2.0$ GeV/c



$< p_T < 2.5$ GeV/c

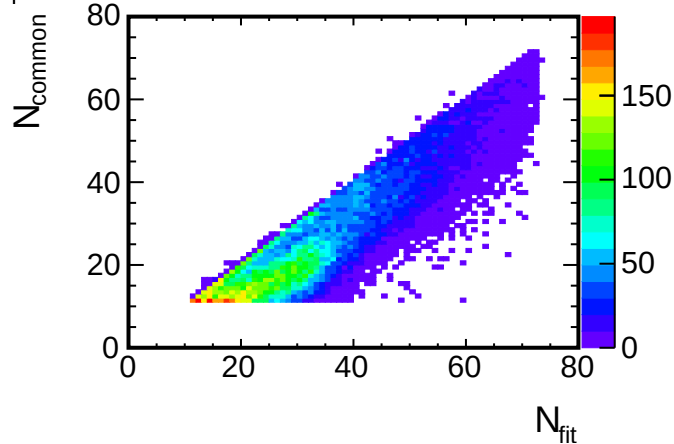


N_{common} vs N_{hit}, p_T dependence (Embedding:pi-, Real:pi-)< p_T < 3.0 GeV/c< p_T < 3.5 GeV/c< p_T < 4.0 GeV/c< p_T < 4.5 GeV/c< p_T < 5.0 GeV/c

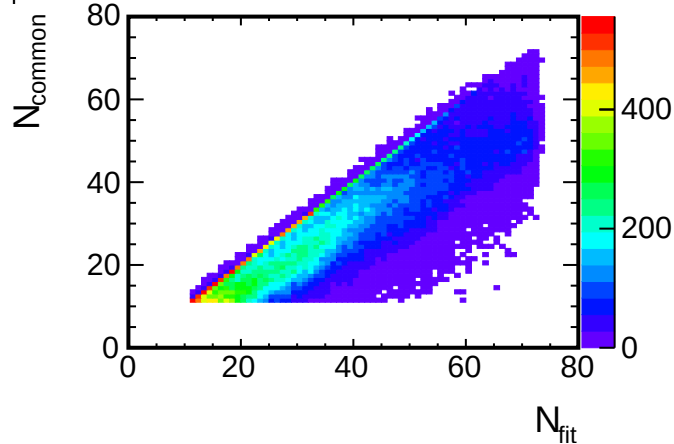
N_{common} vs N_{hit} (Embedding:alpha, Real:alpha) $p_T < 5.0 \text{ GeV/c}$ 

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

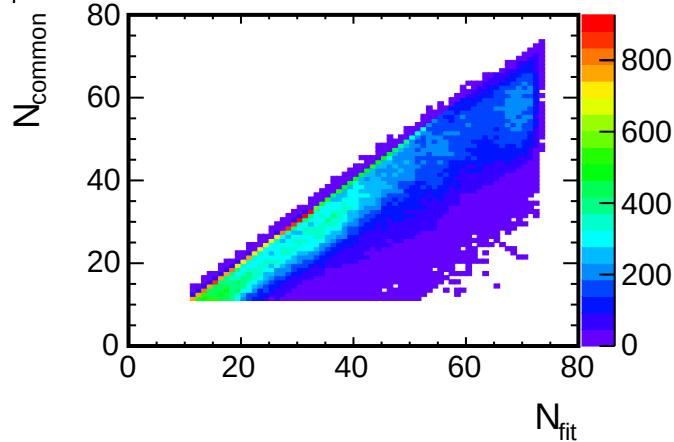
$< p_T < 0.5$ GeV/c



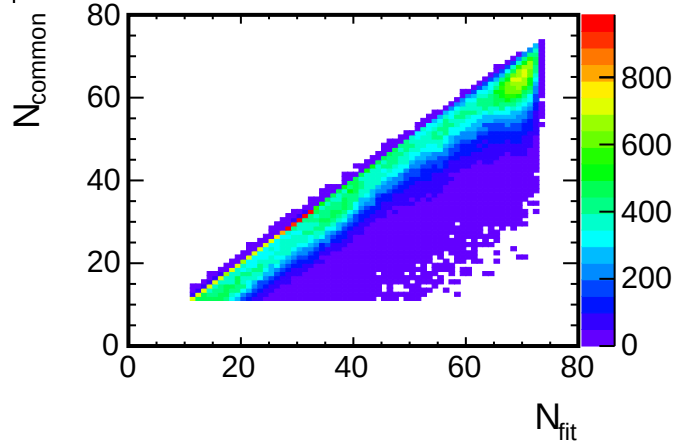
$< p_T < 1.0$ GeV/c



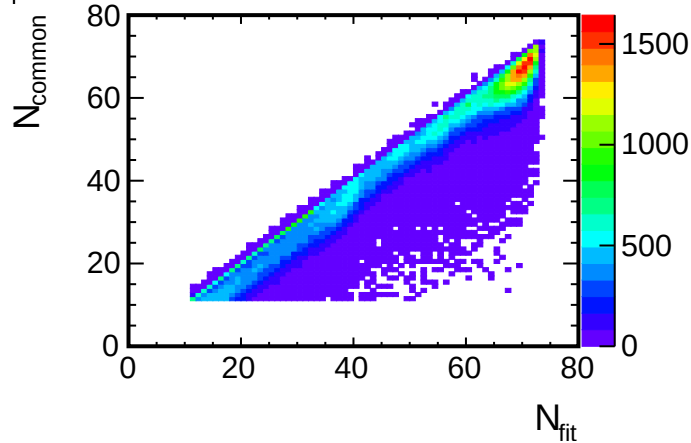
$< p_T < 1.5$ GeV/c



$< p_T < 2.0$ GeV/c

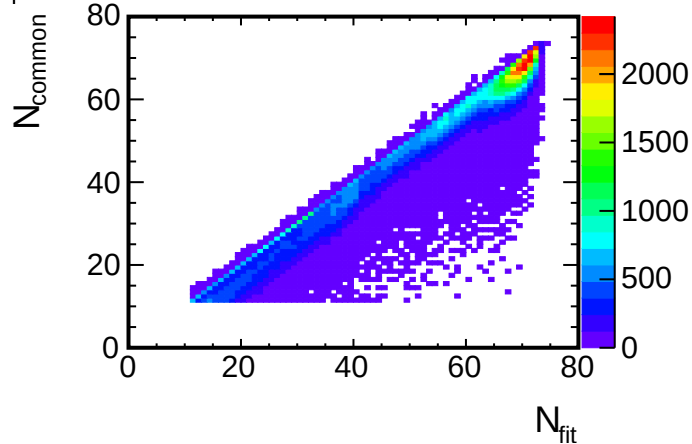


$< p_T < 2.5$ GeV/c

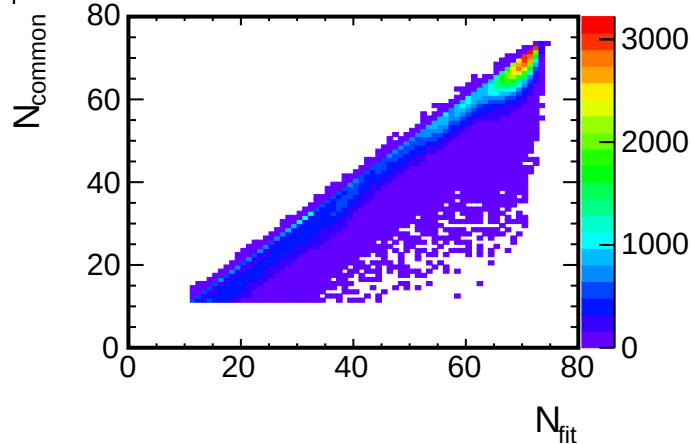


N_{common} vs N_{hit} , p_T dependence (Embedding:alpha, Real:alpha)

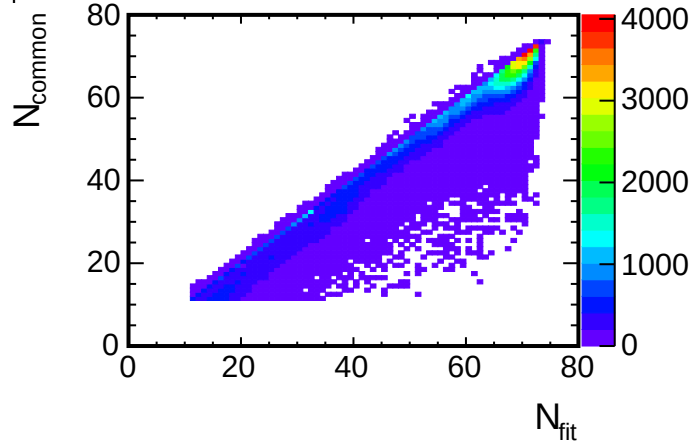
$< p_T < 3.0$ GeV/c



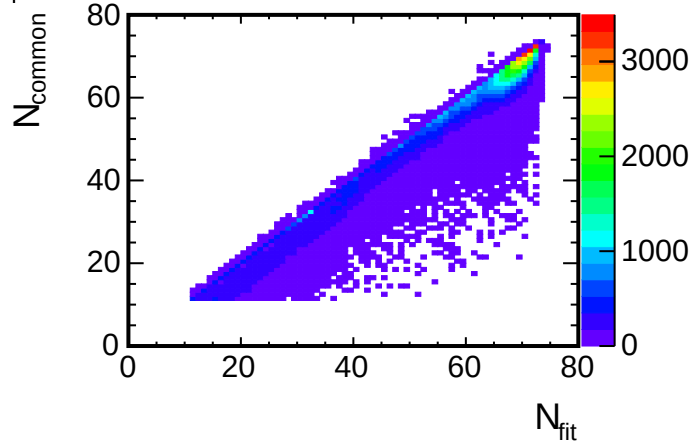
$< p_T < 3.5$ GeV/c



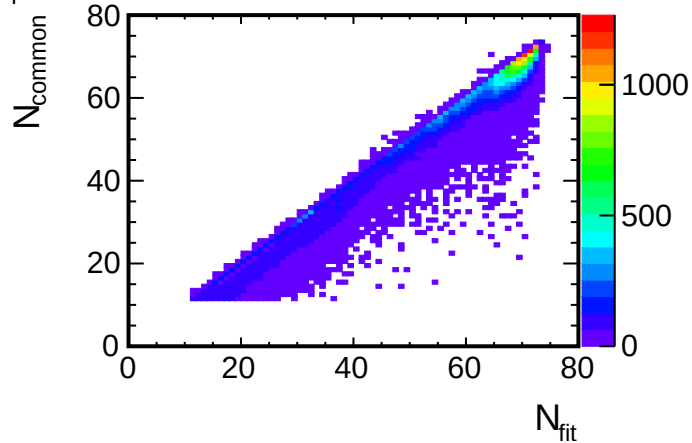
$< p_T < 4.0$ GeV/c

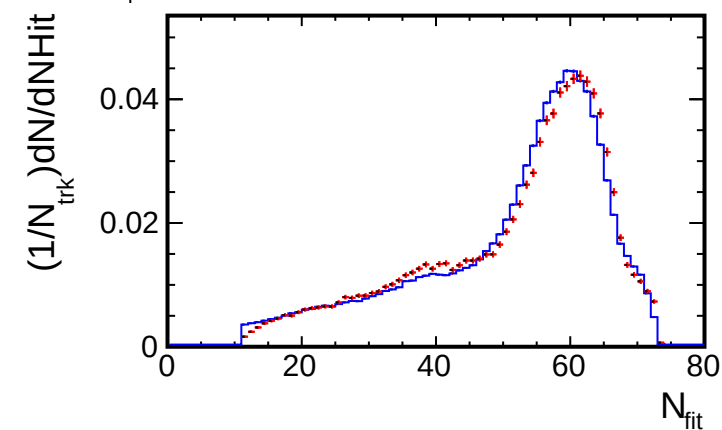
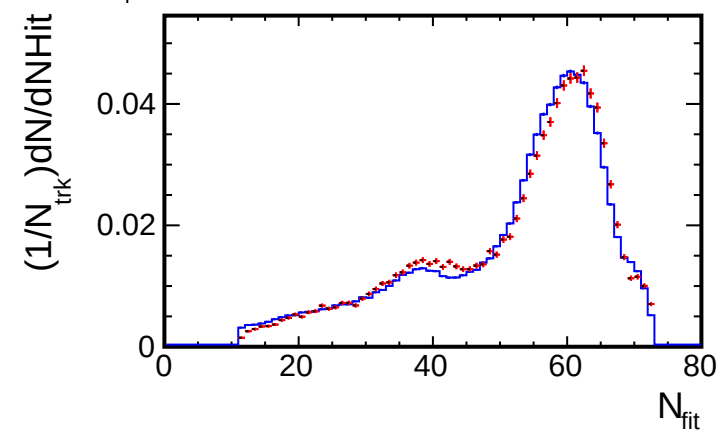
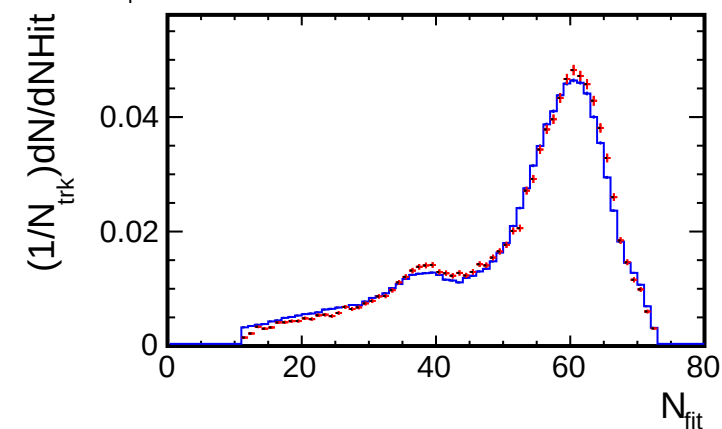
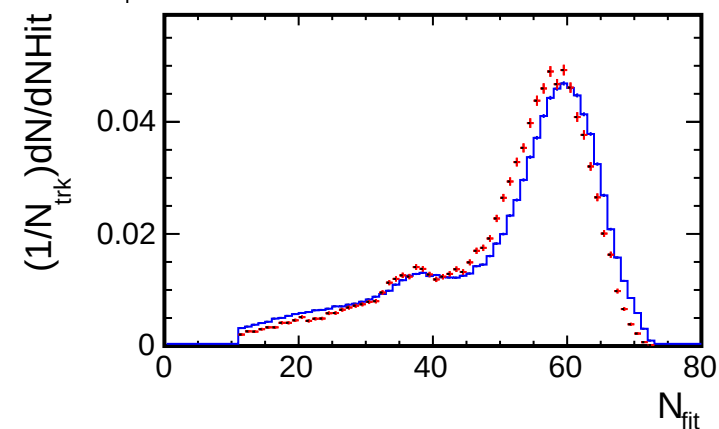
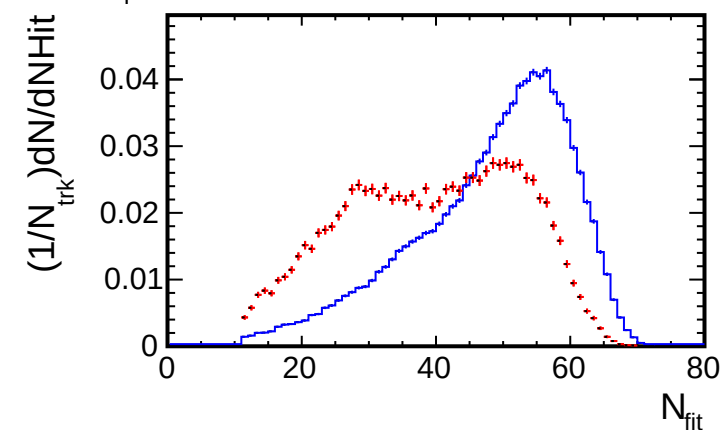


$< p_T < 4.5$ GeV/c



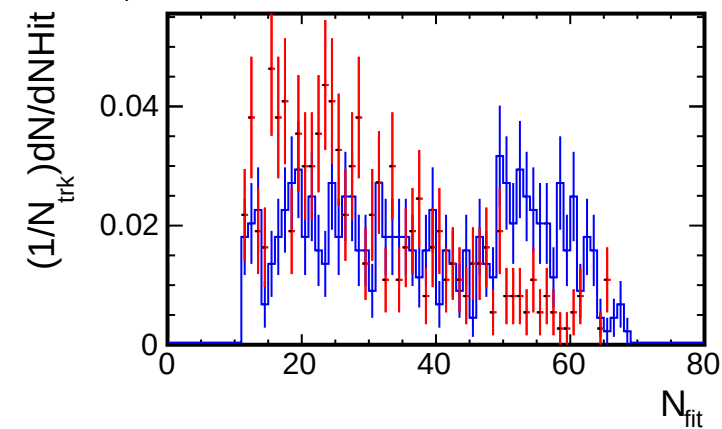
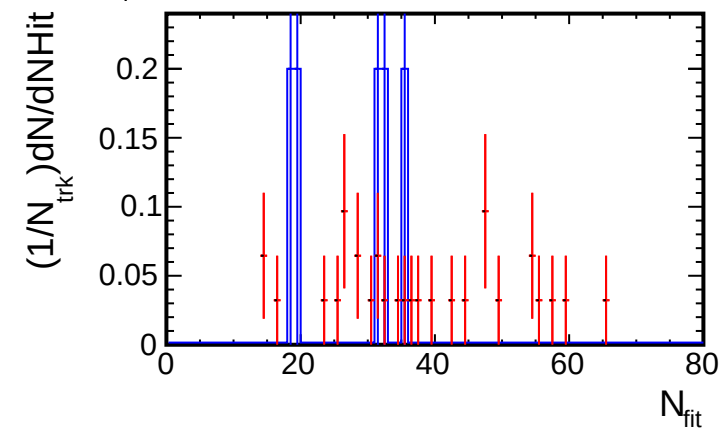
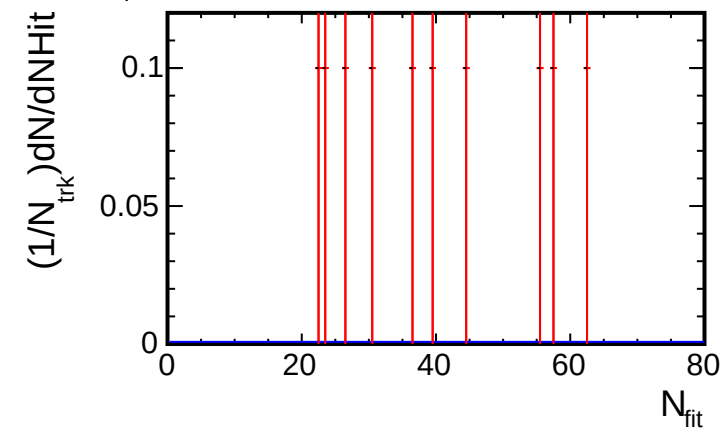
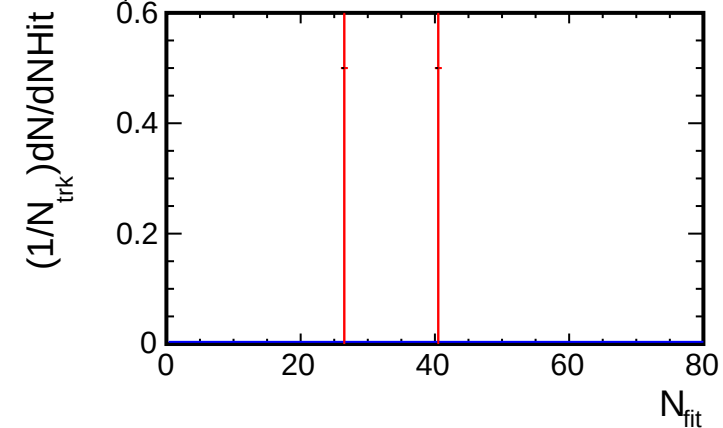
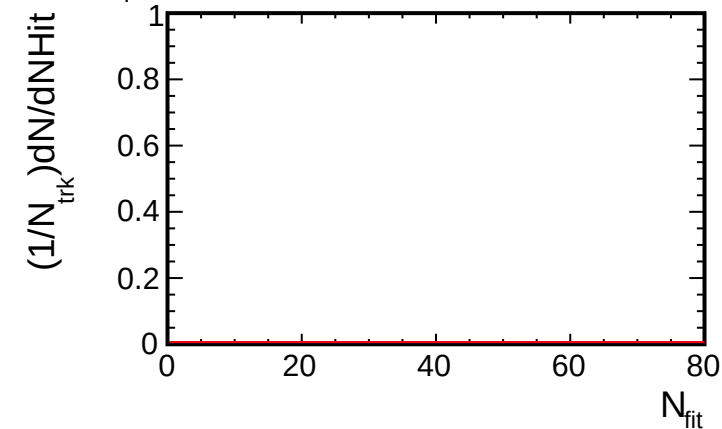
$< p_T < 5.0$ GeV/c



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)

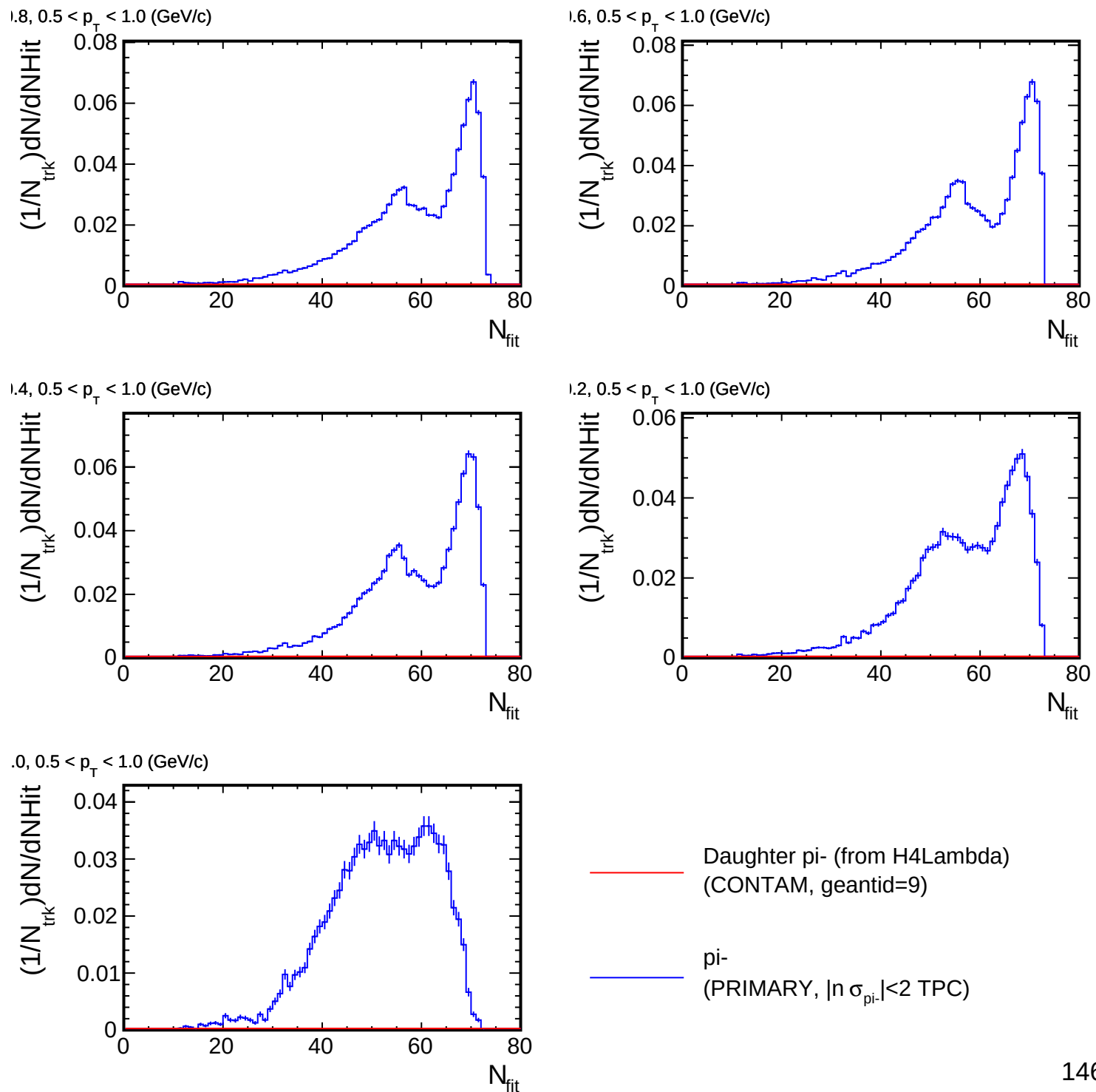
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

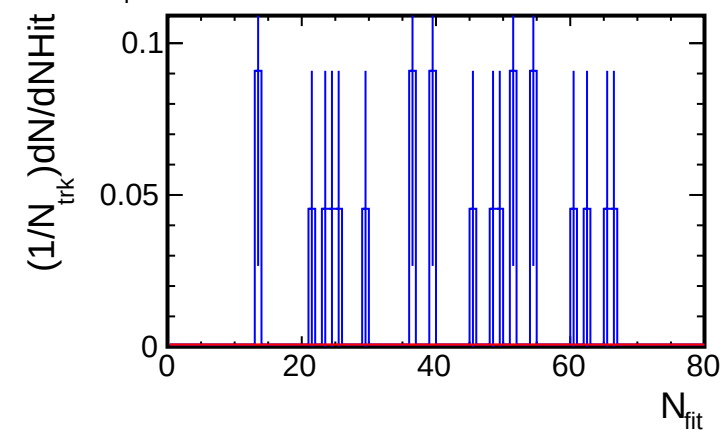
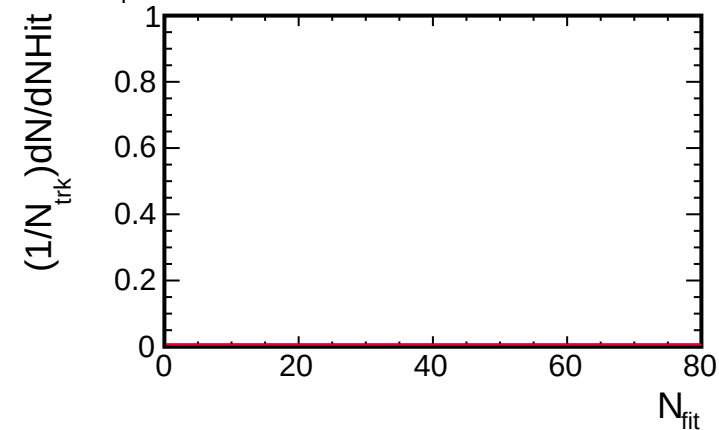
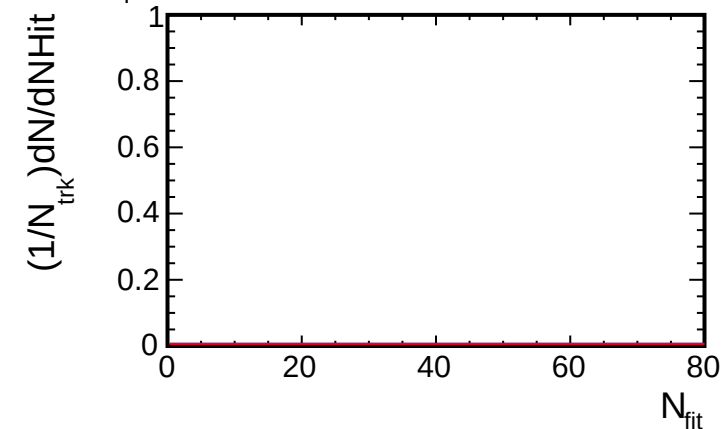
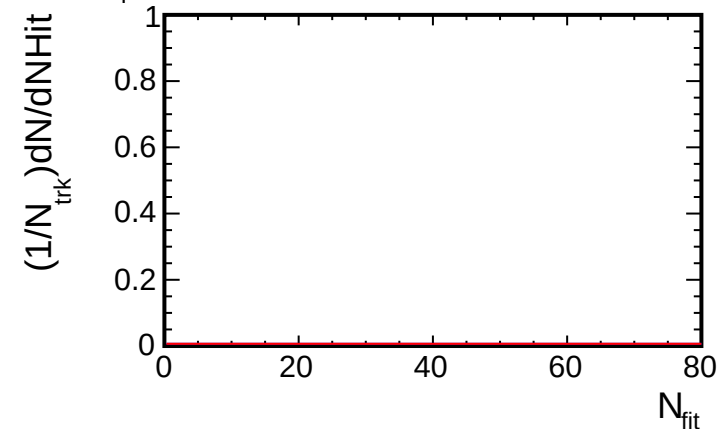
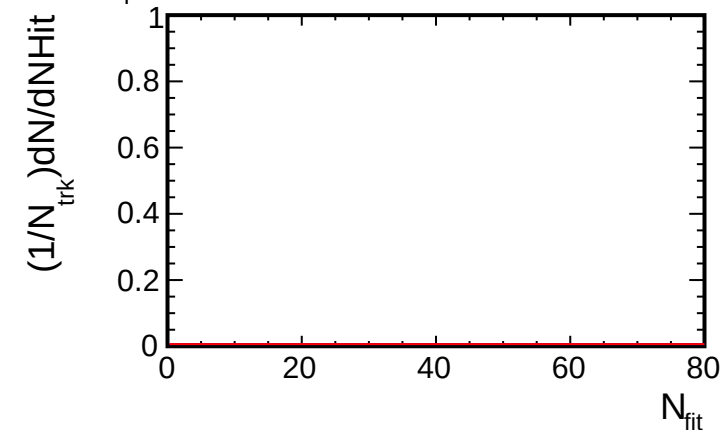
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

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)

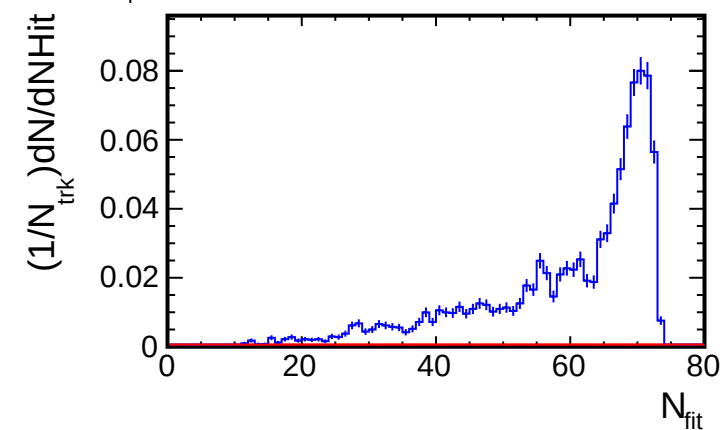
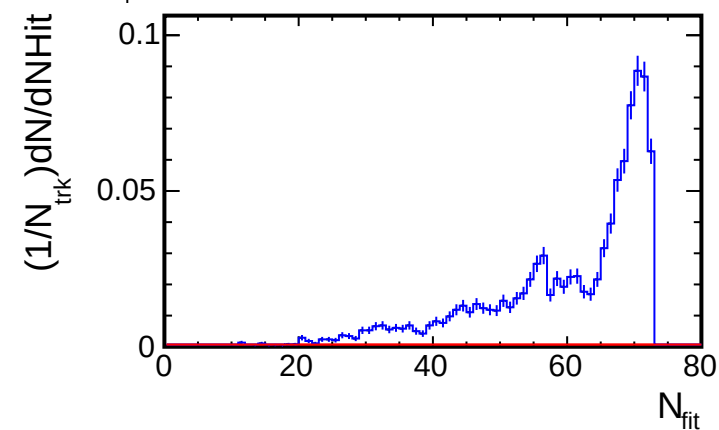
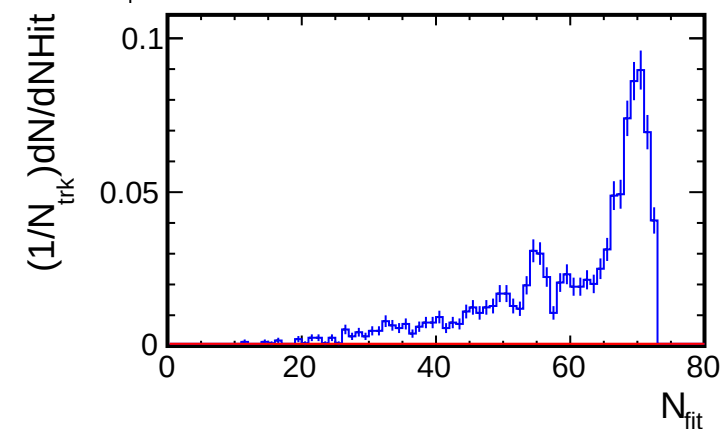
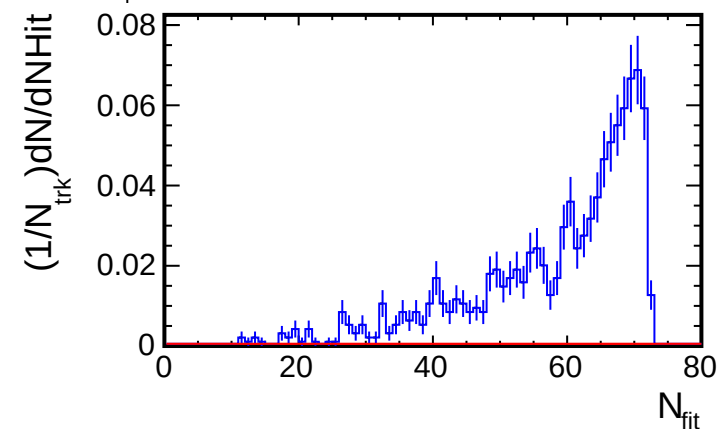
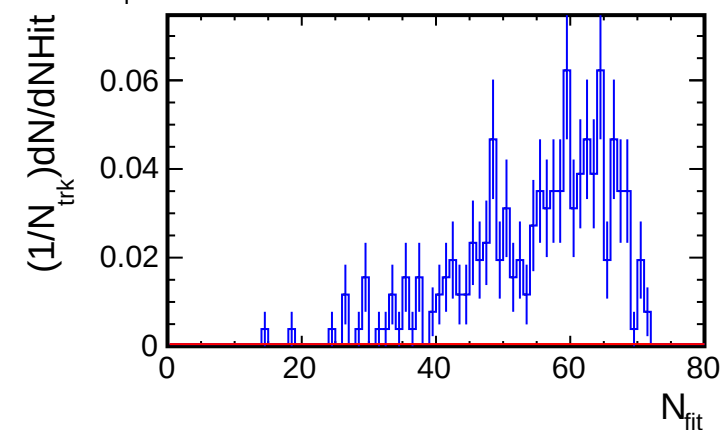
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

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)

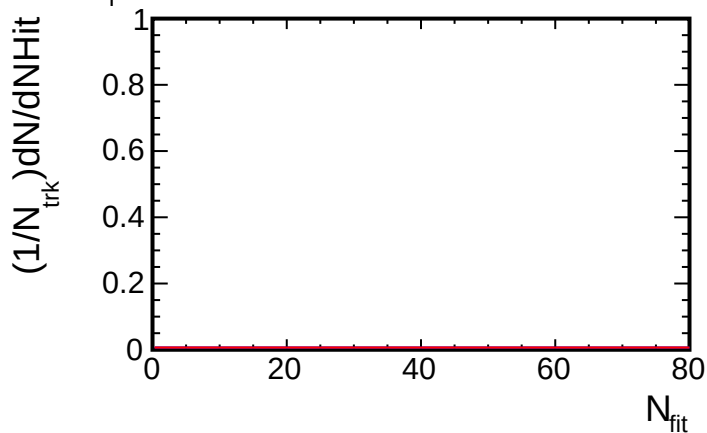
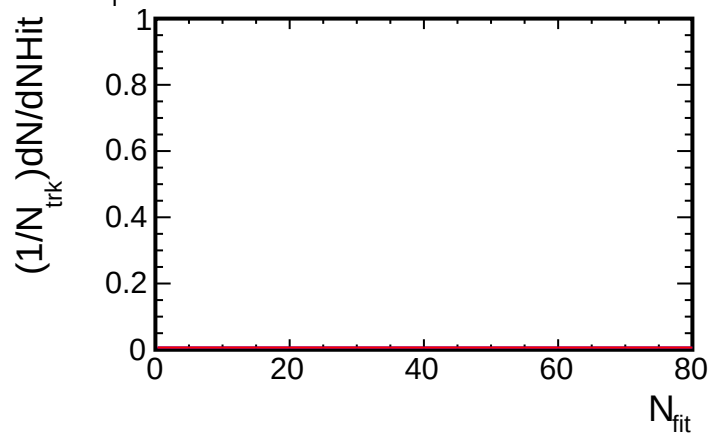
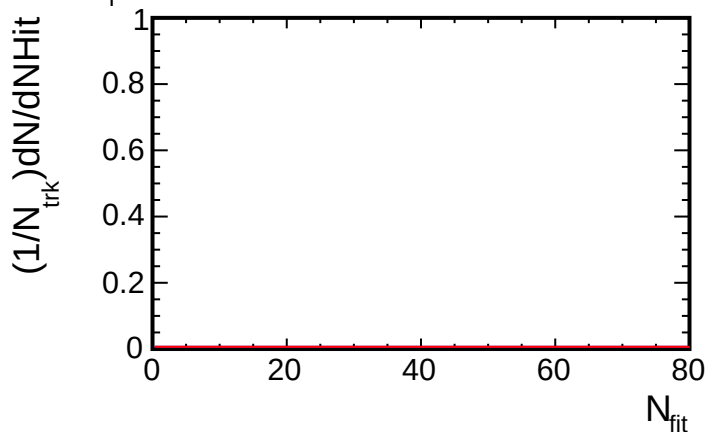
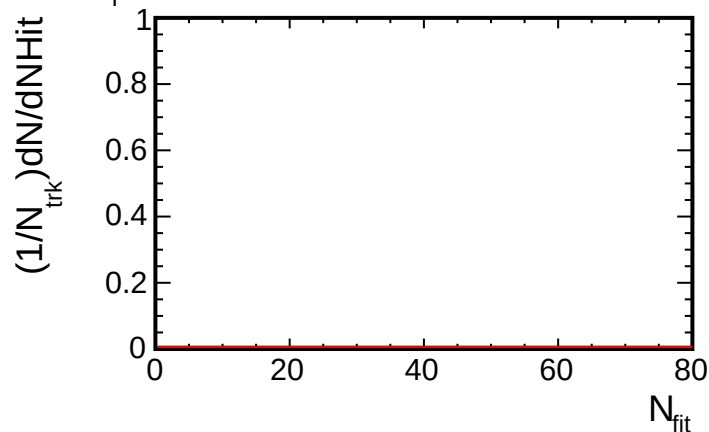
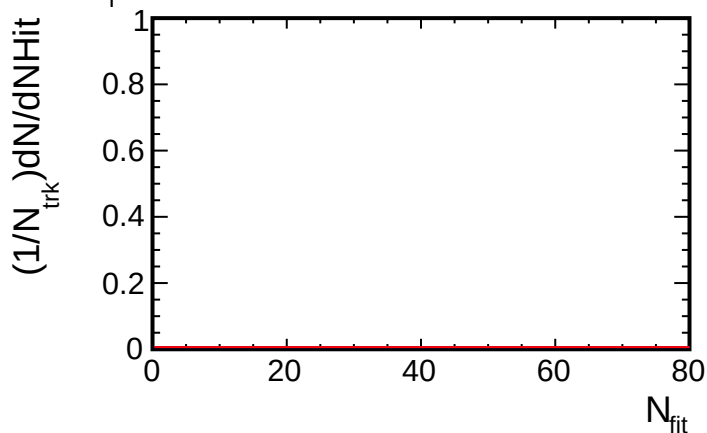
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

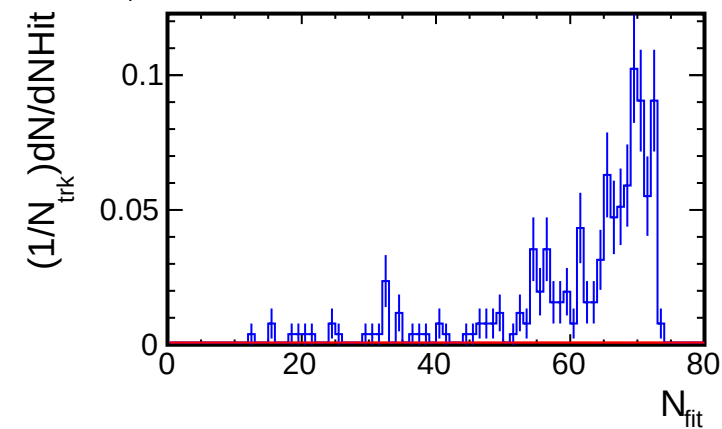
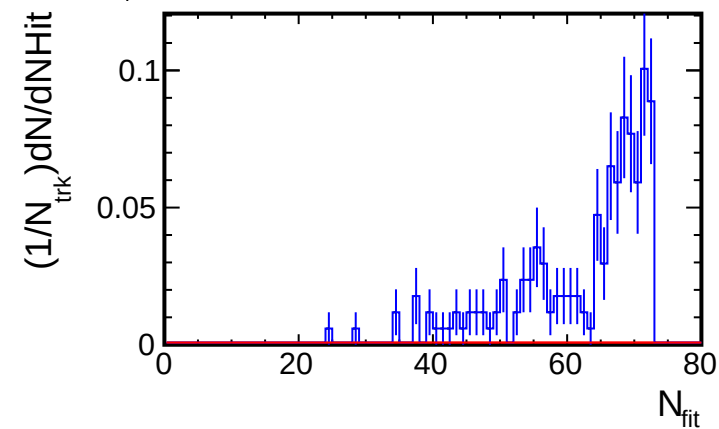
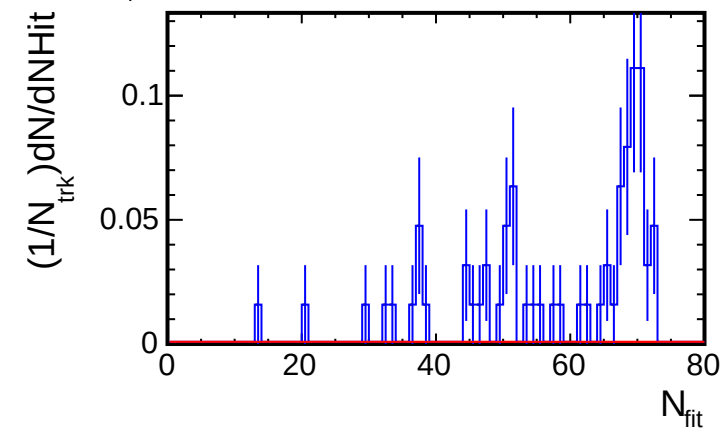
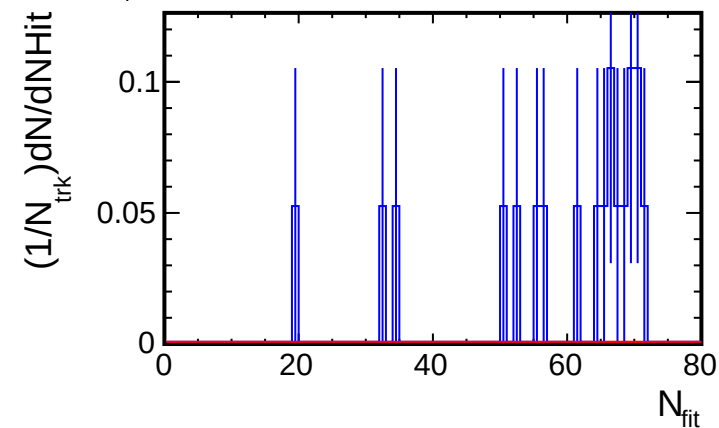
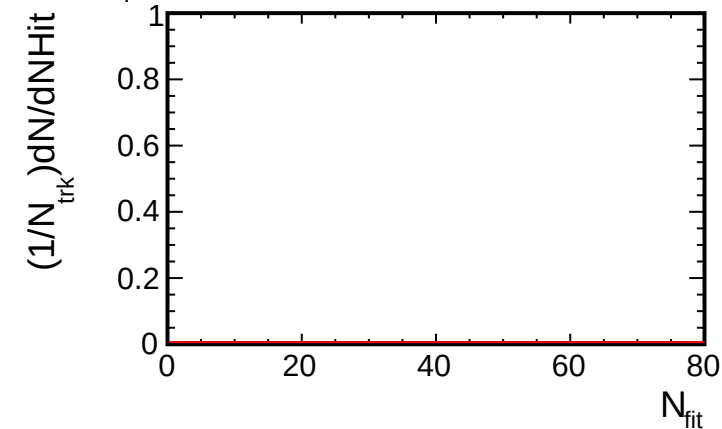
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit 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)

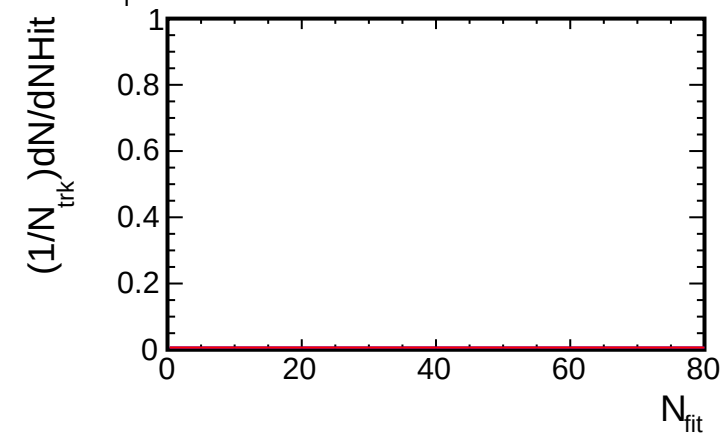
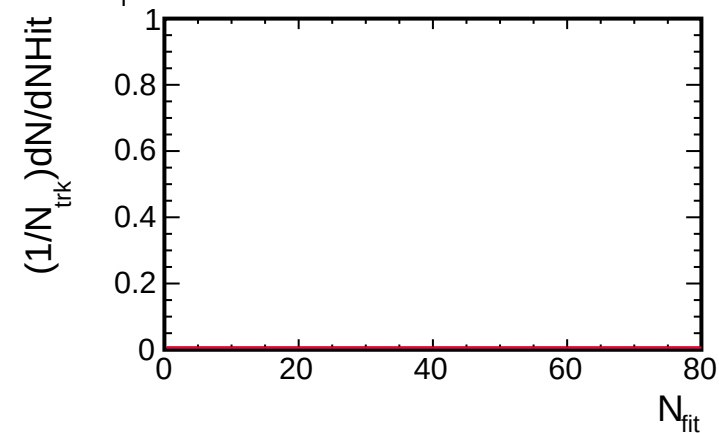
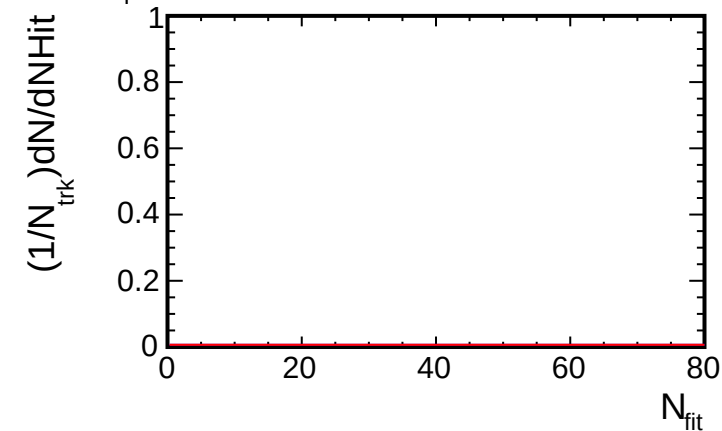
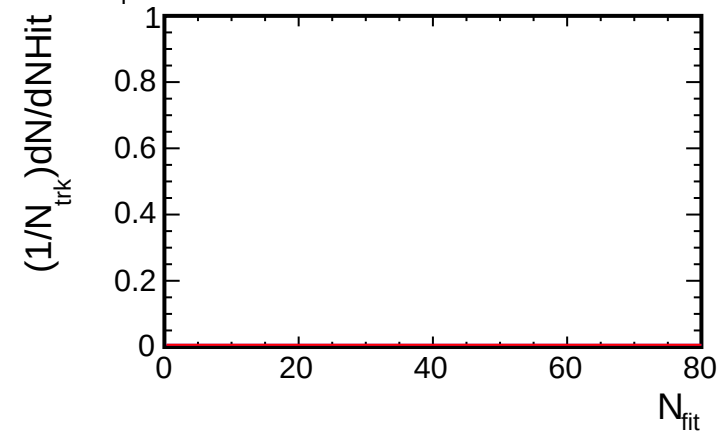
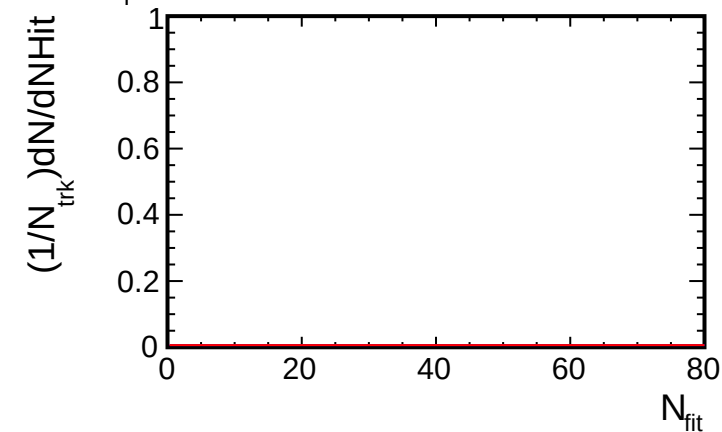
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

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)

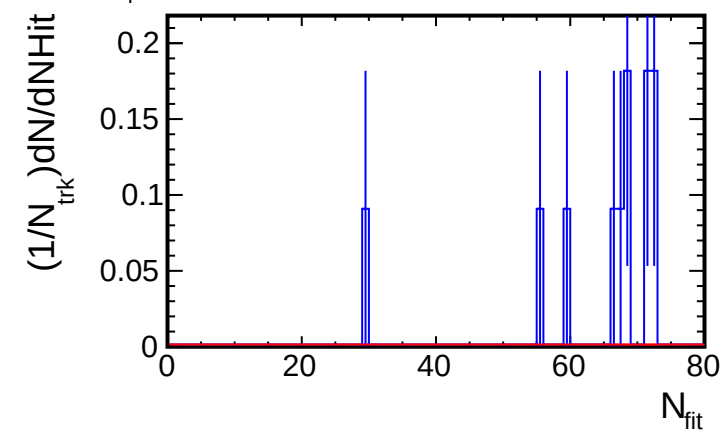
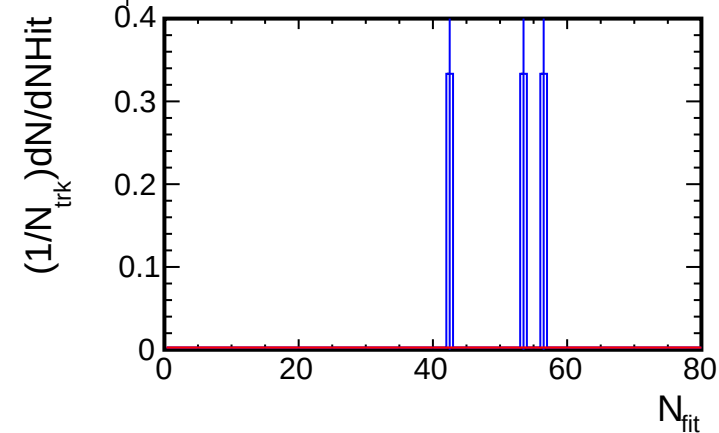
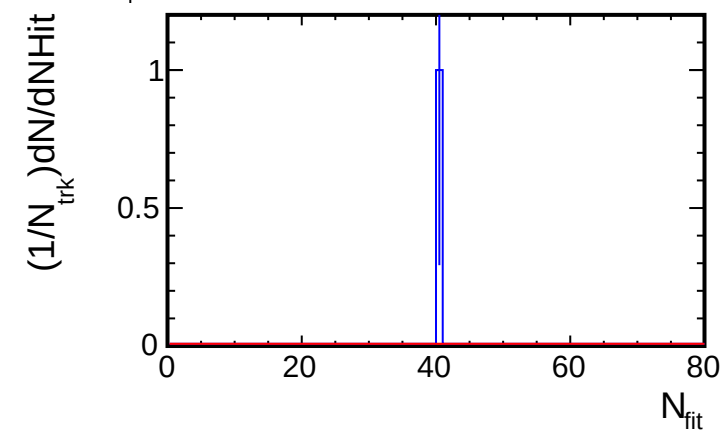
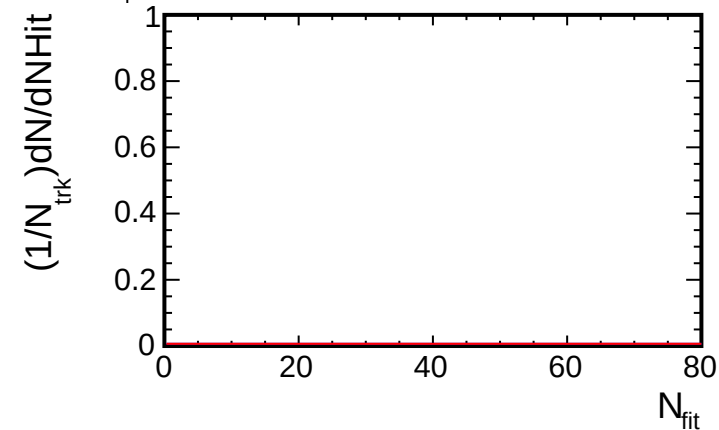
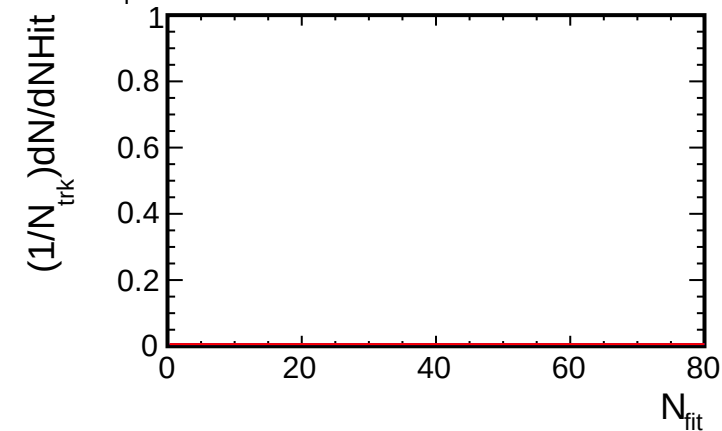
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

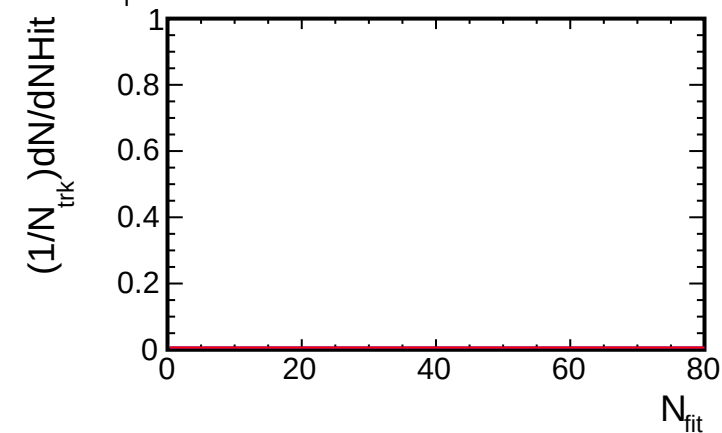
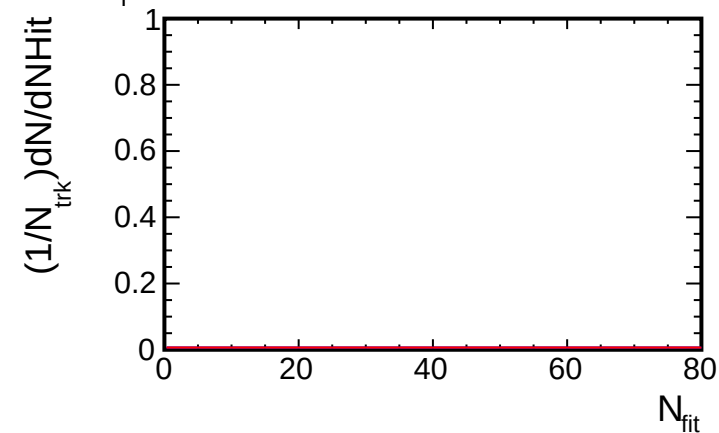
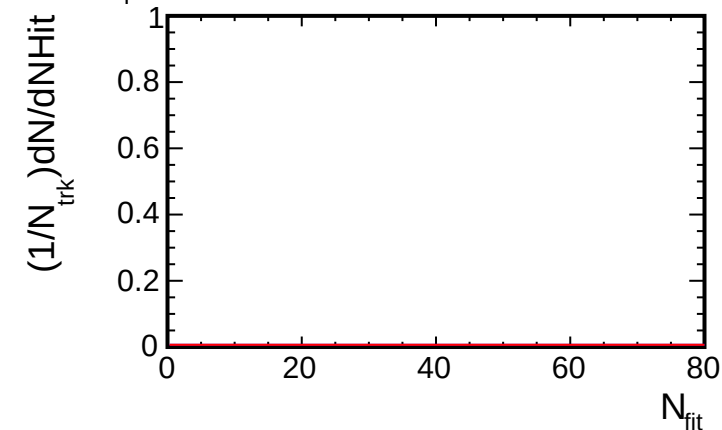
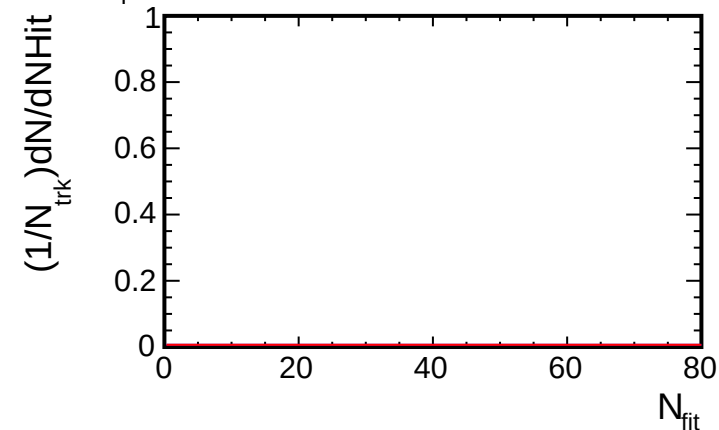
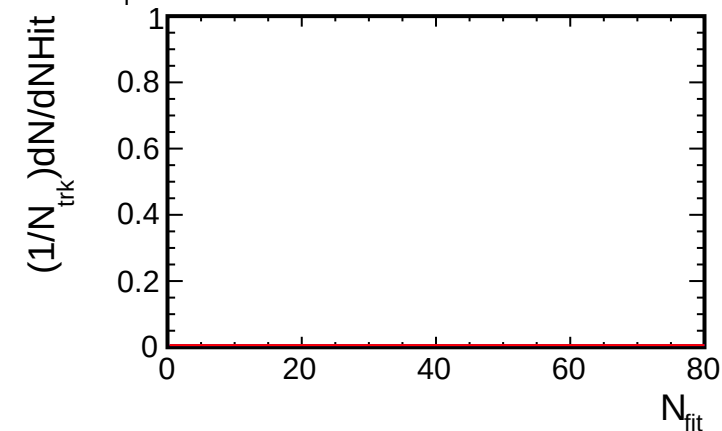
— Daughter pi⁻ (from H4Lambda)
(CONTAM, geantid=9)

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

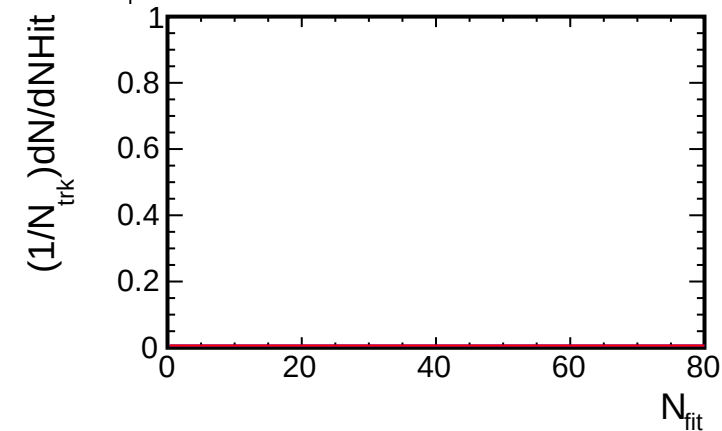
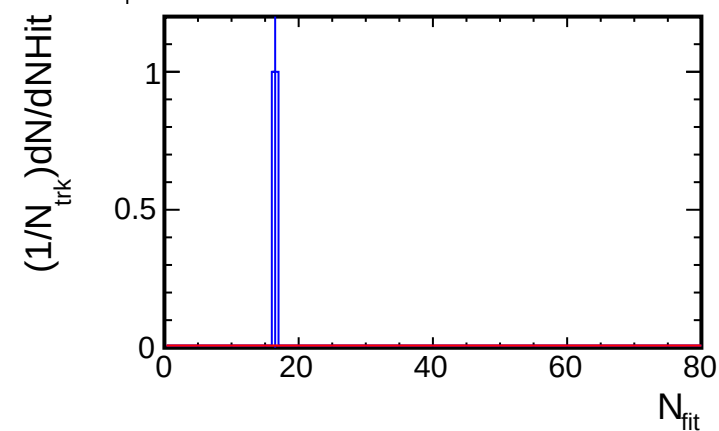
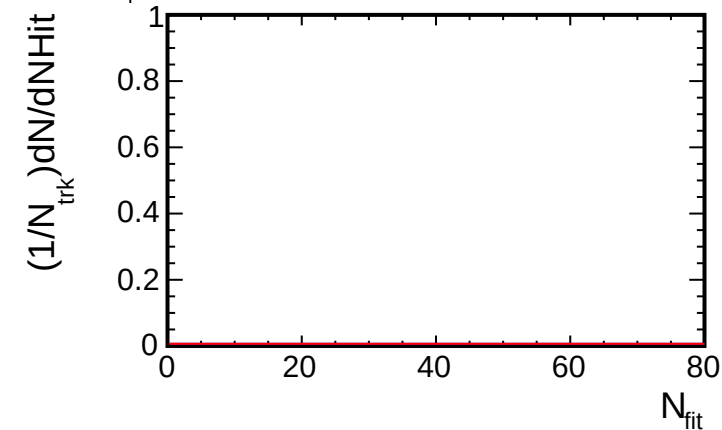
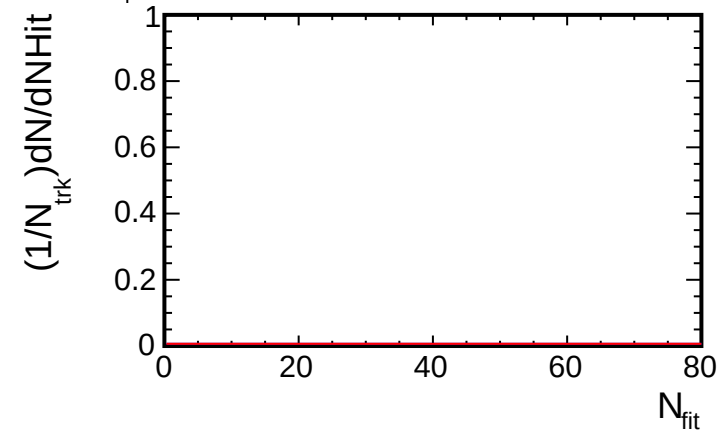
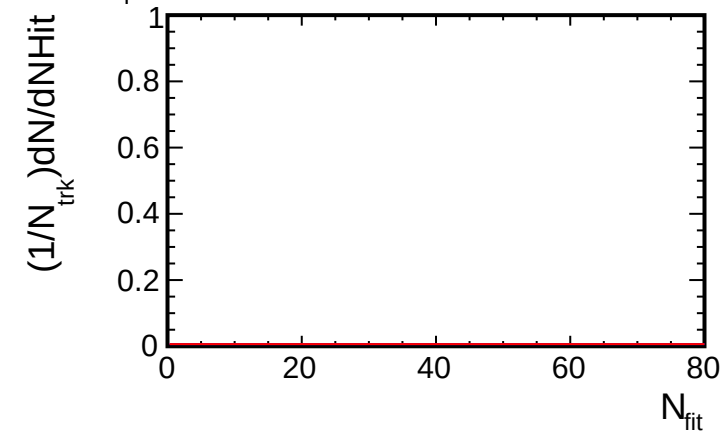
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— π^-
(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)

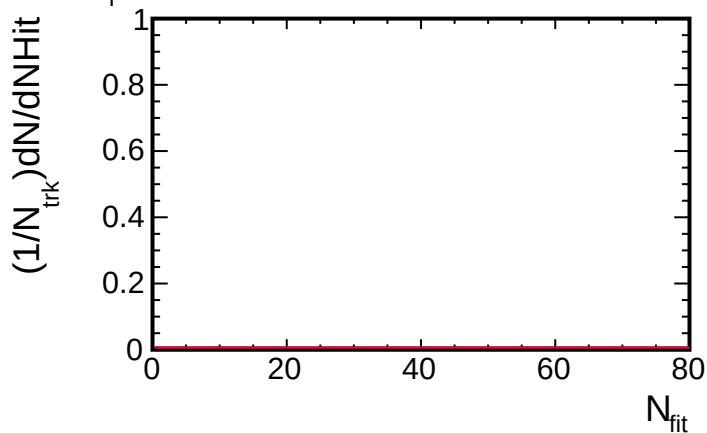
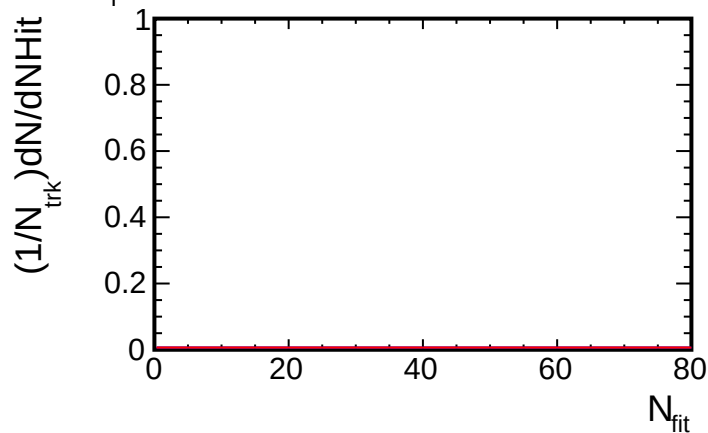
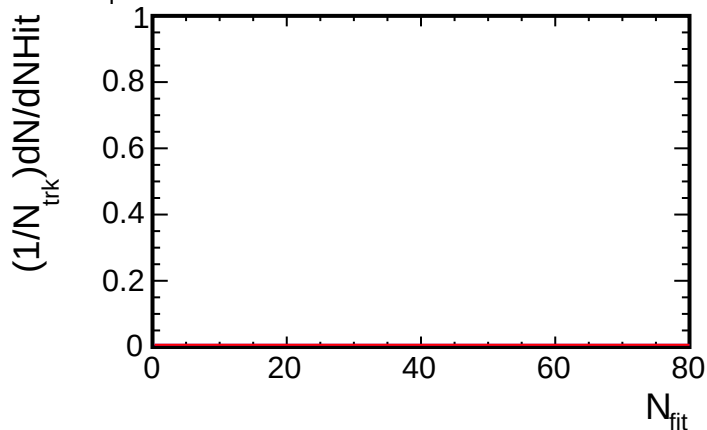
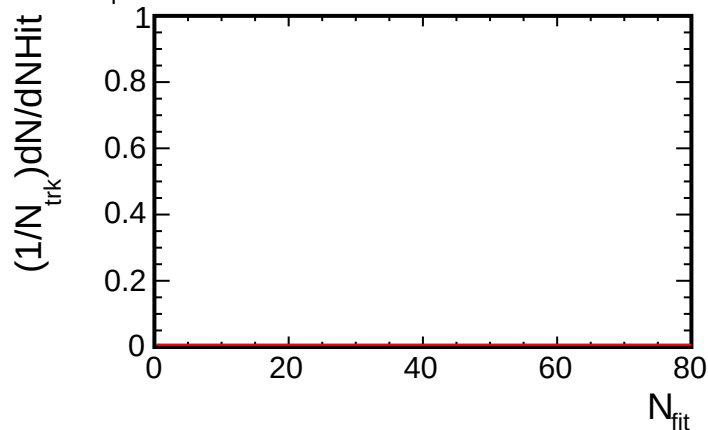
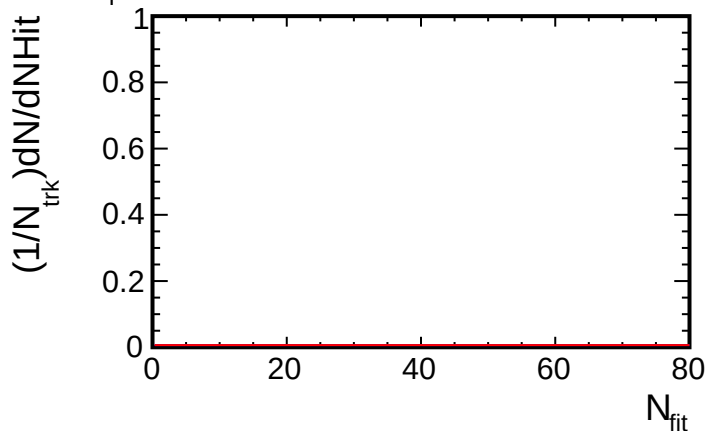
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) 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)

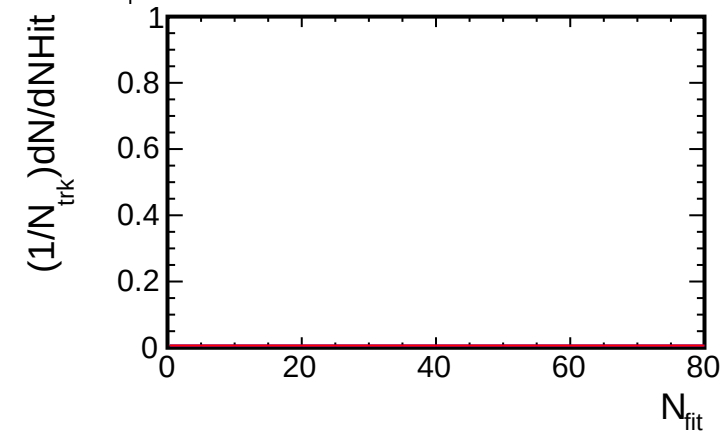
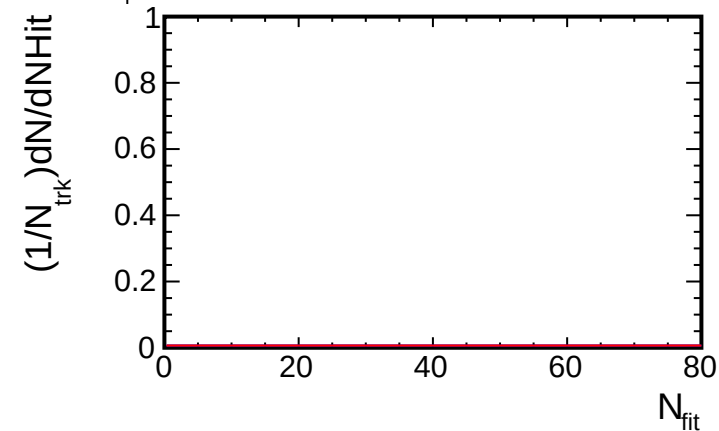
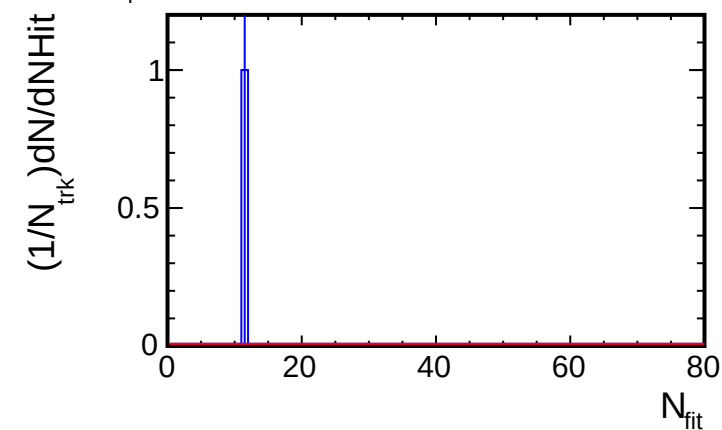
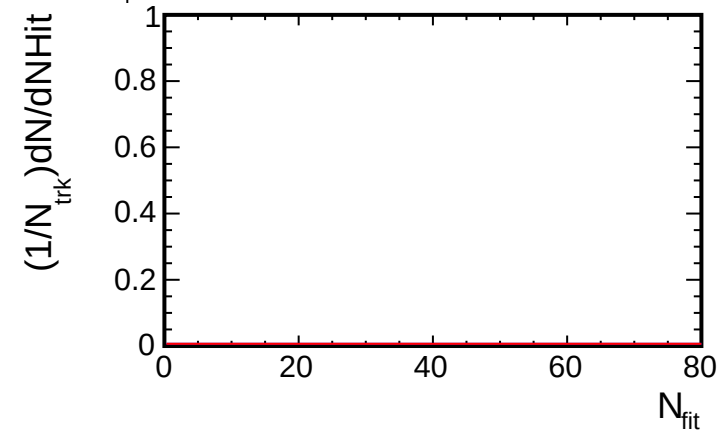
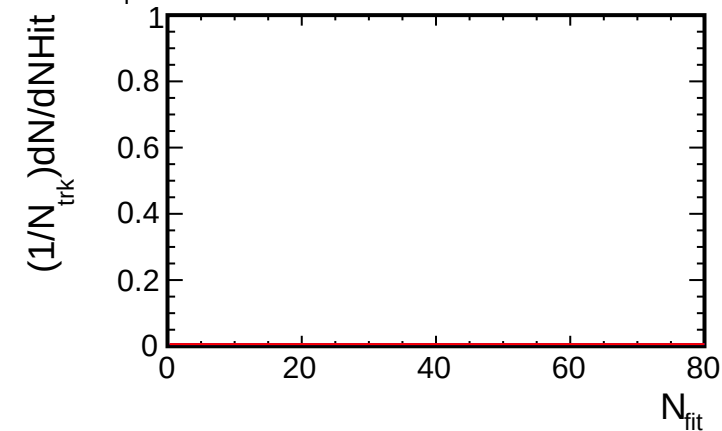
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

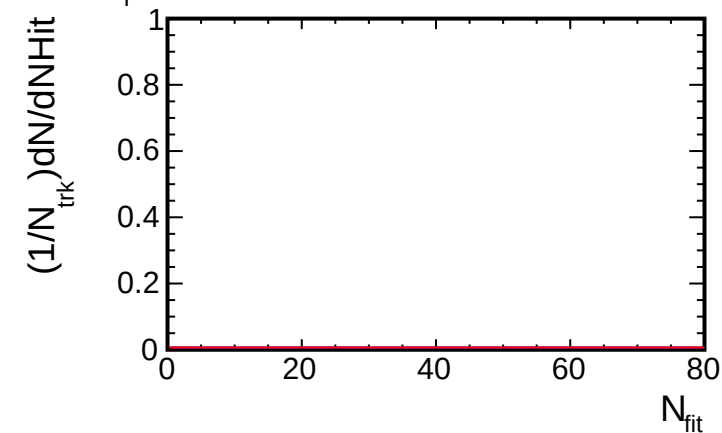
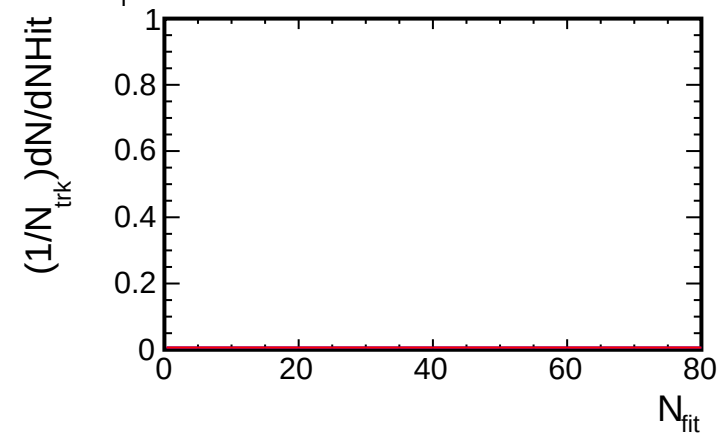
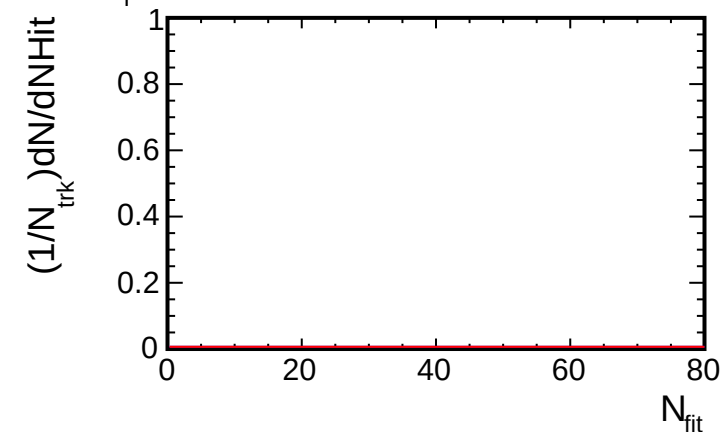
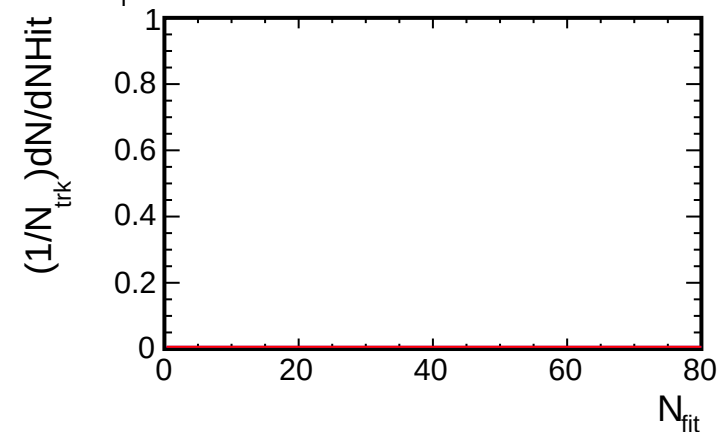
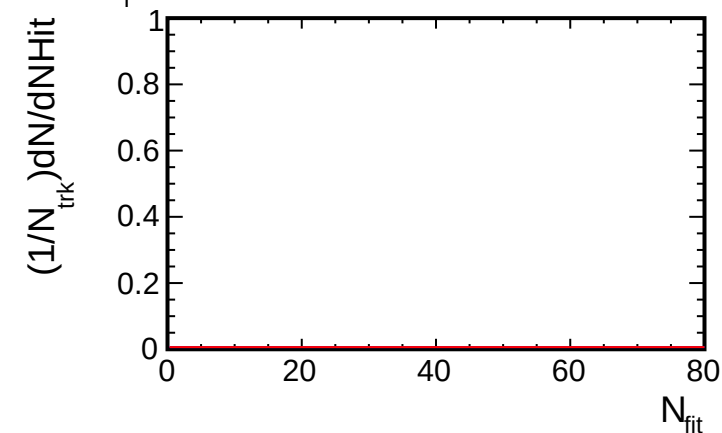
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices $1.8, 3.0 < p_T < 3.5$ (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)

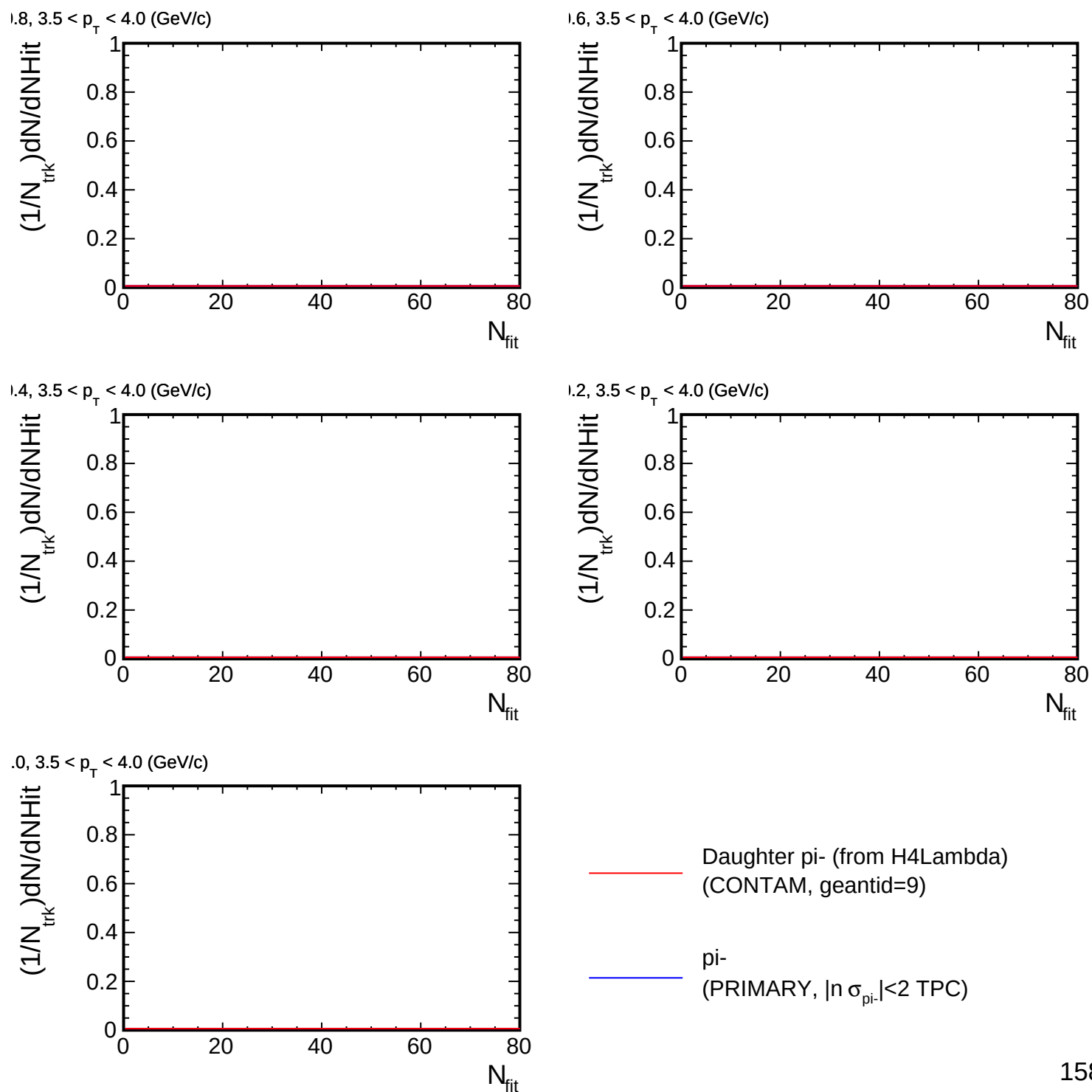
— Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

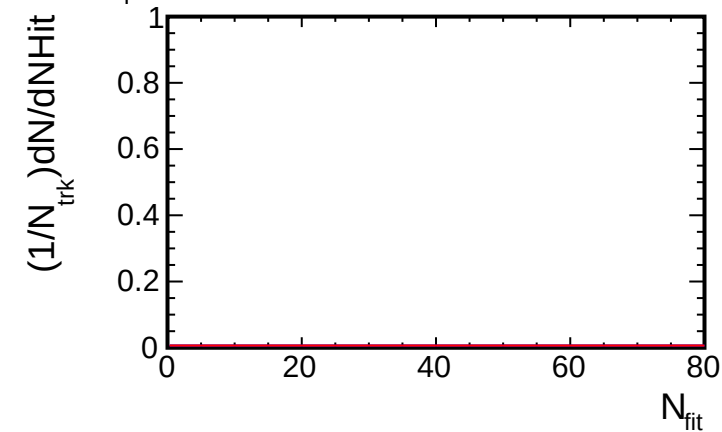
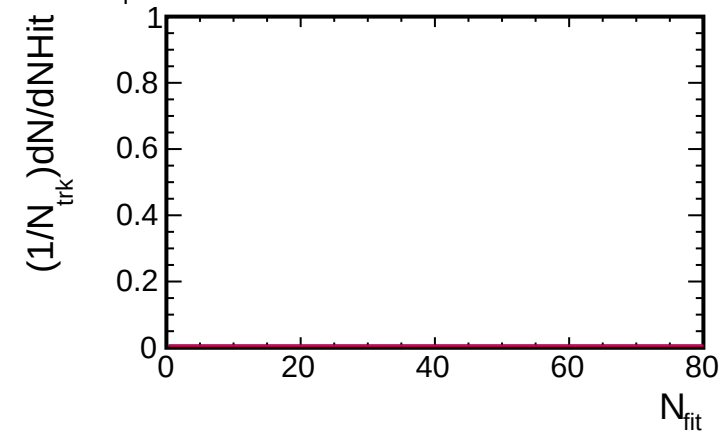
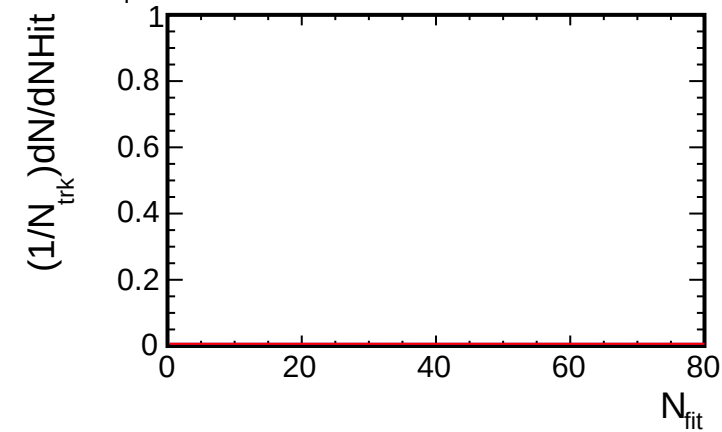
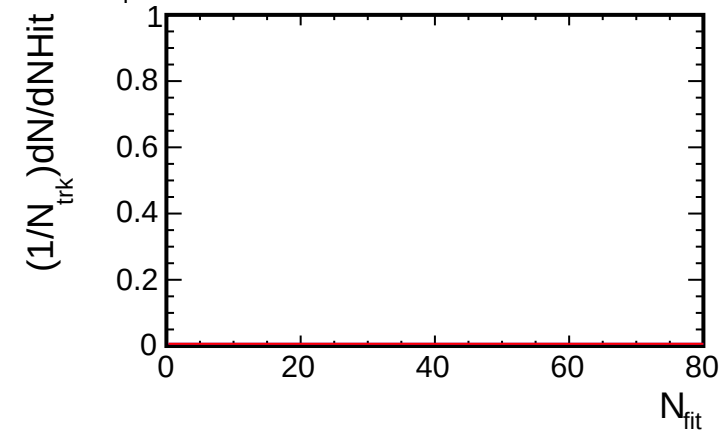
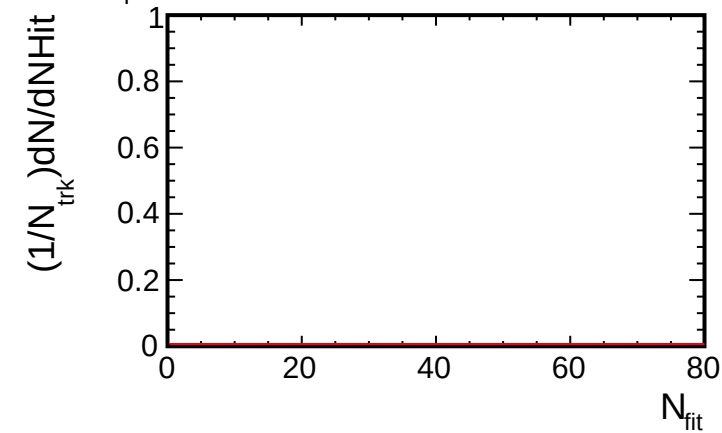
— pi-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

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

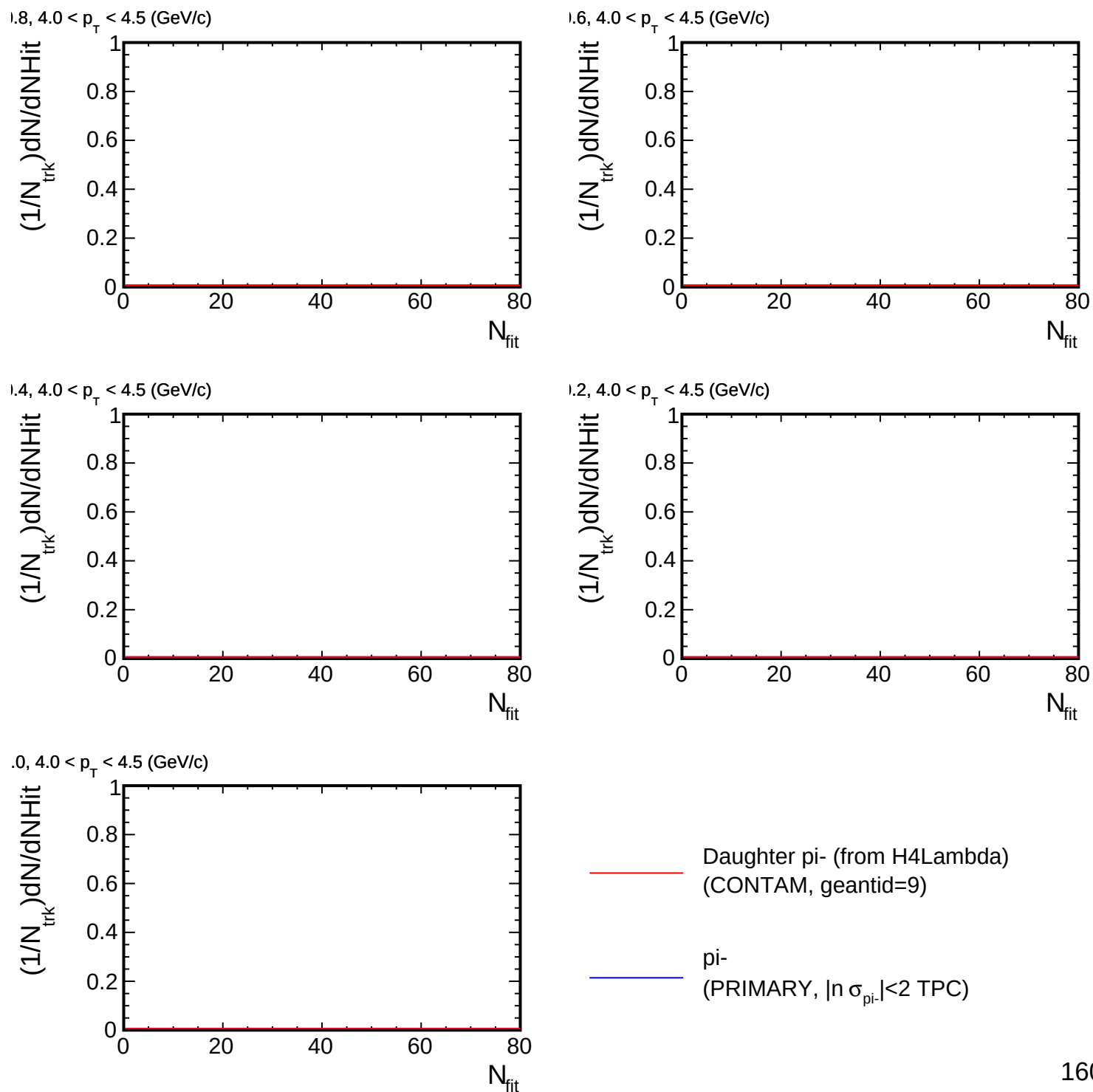
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

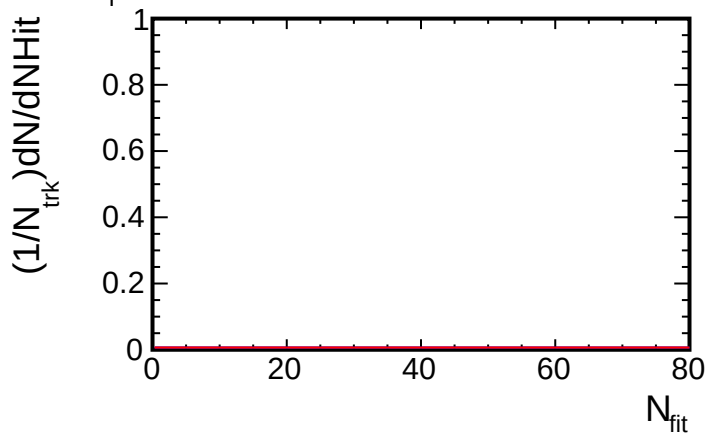
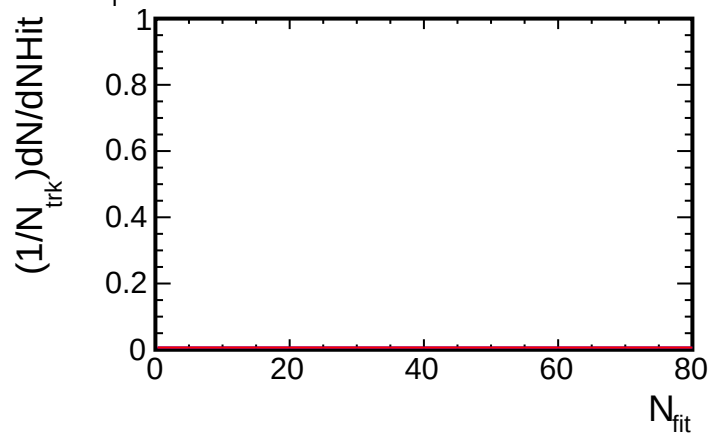
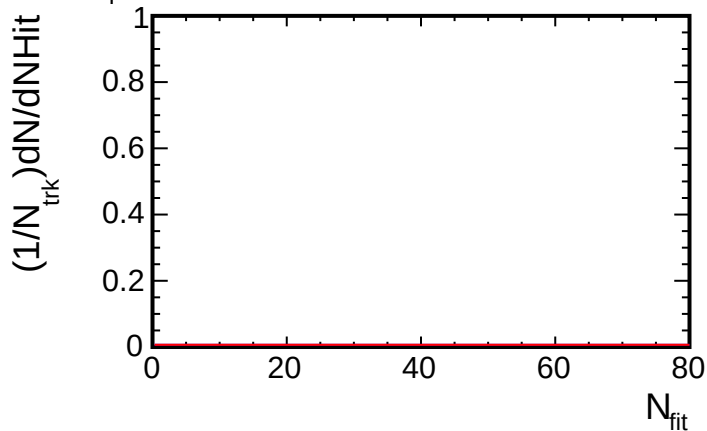
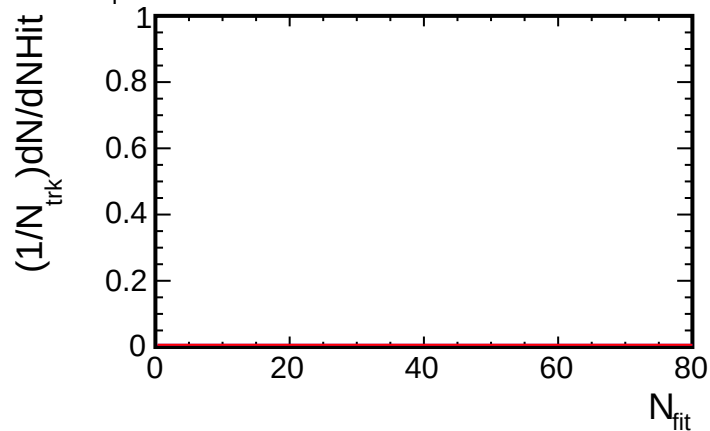
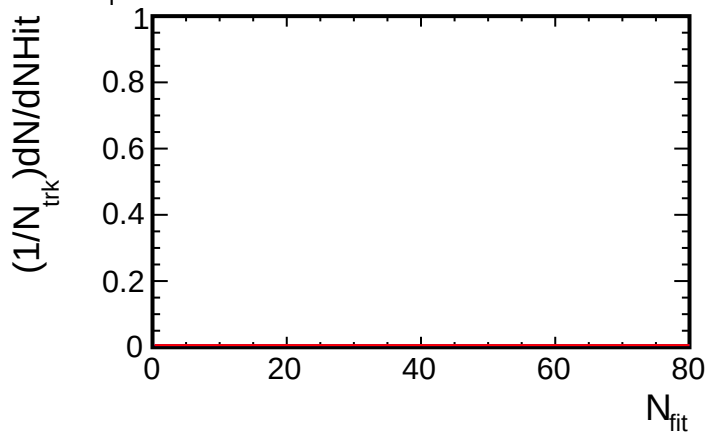
NHit distribution for (p_T , η) slices

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

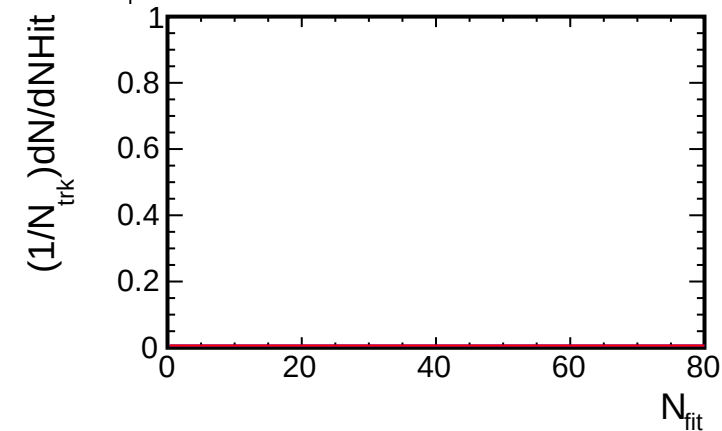
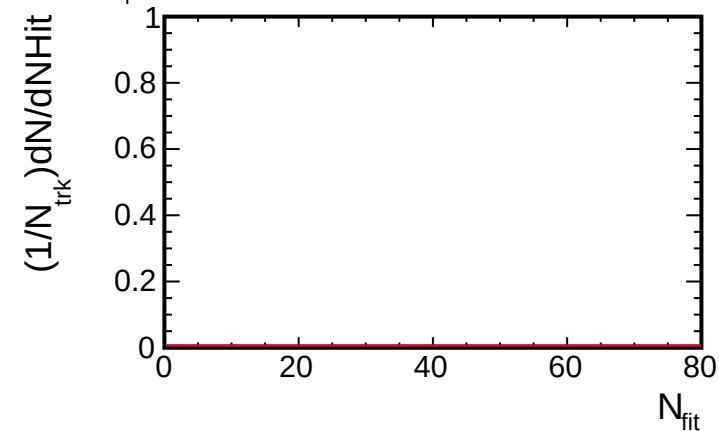
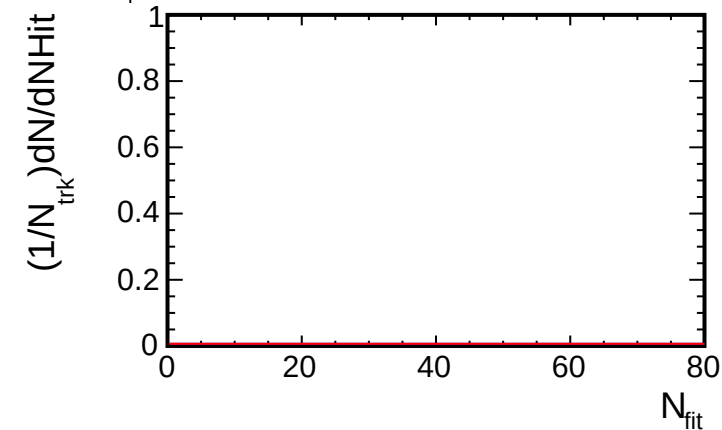
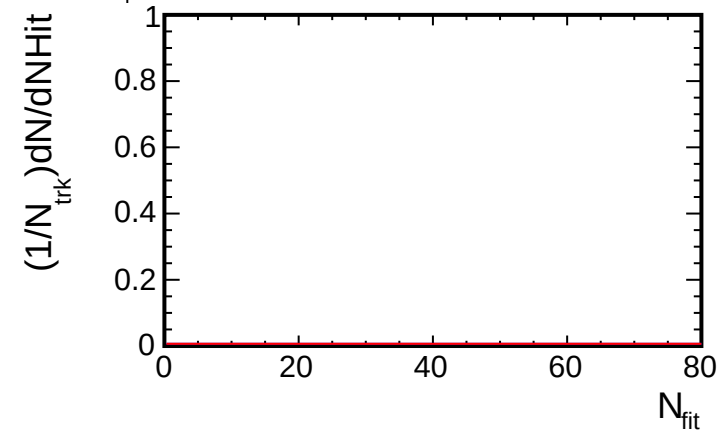
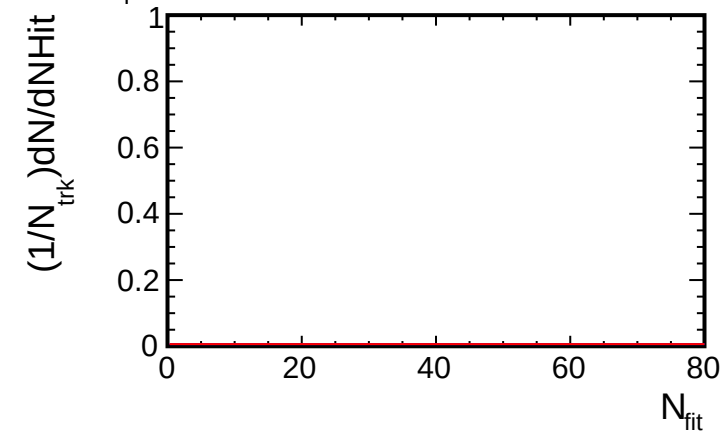
— π^-
(PRIMARY, $|\ln \sigma_{\pi^-}| < 2$ TPC)

NHit distribution for (p_T , η) slices

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)

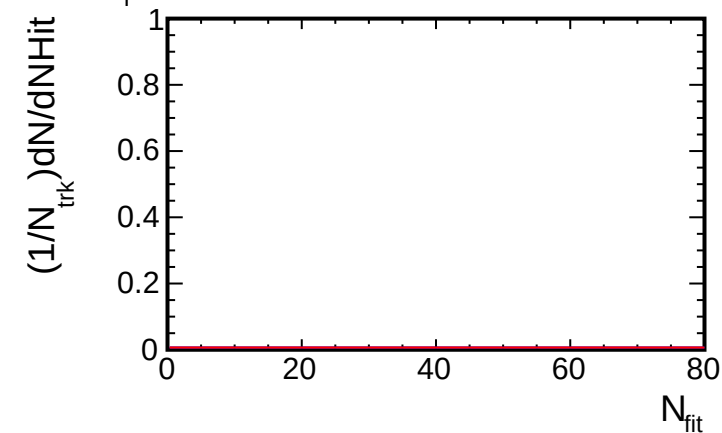
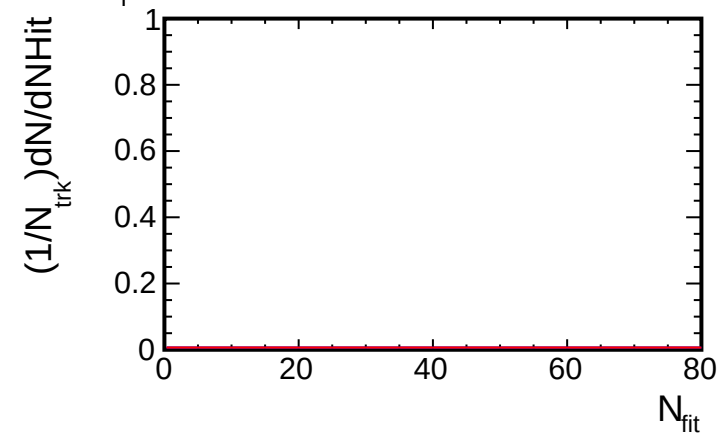
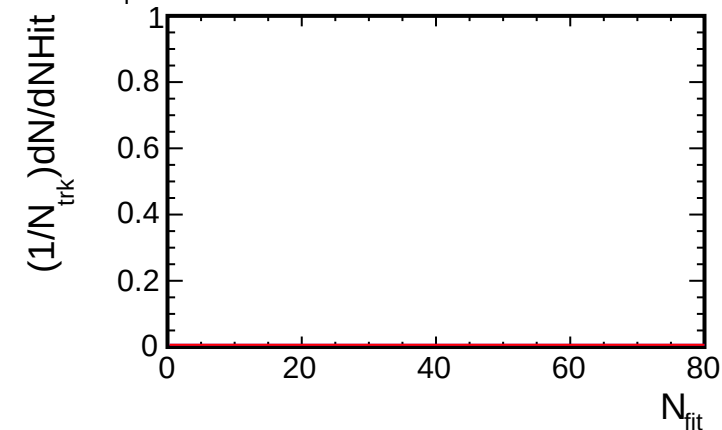
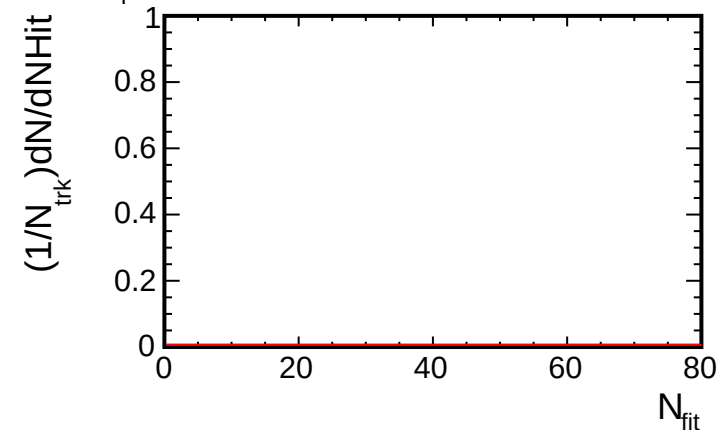
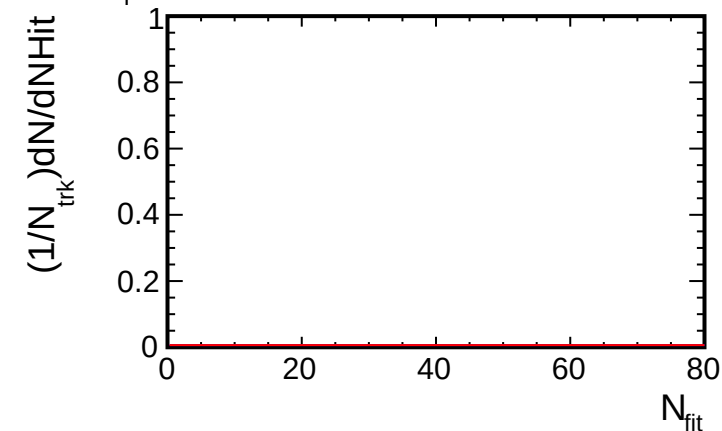
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

NHit distribution for (p_T , η) slices $1.8, 4.5 < p_T < 5.0$ (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)

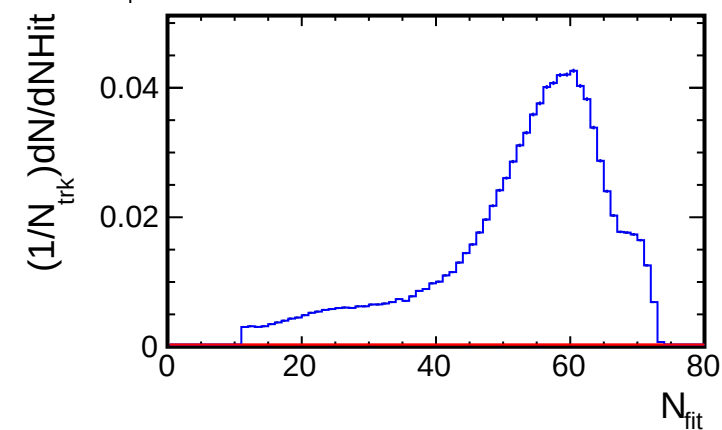
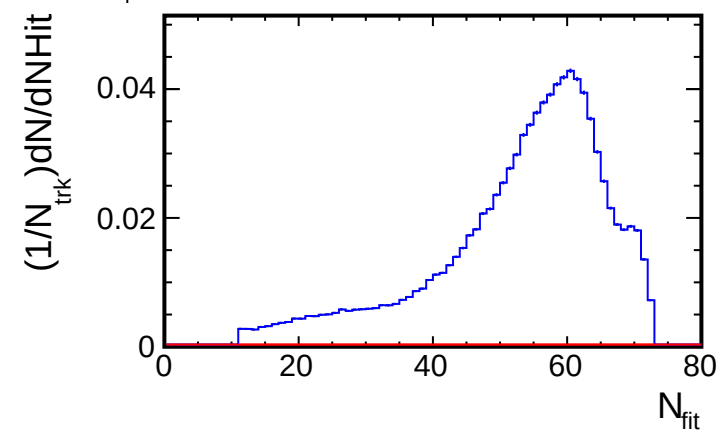
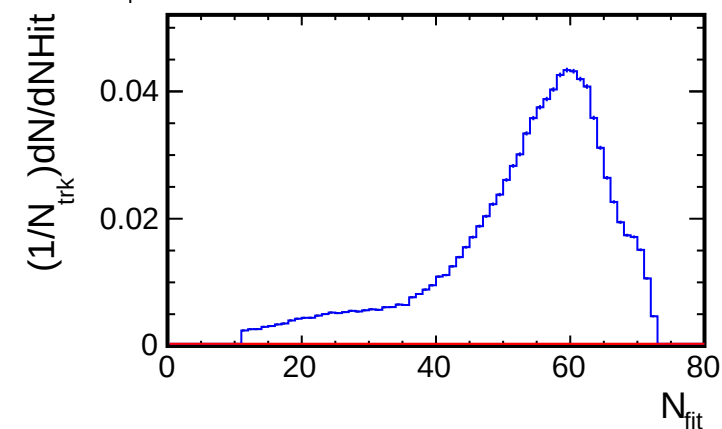
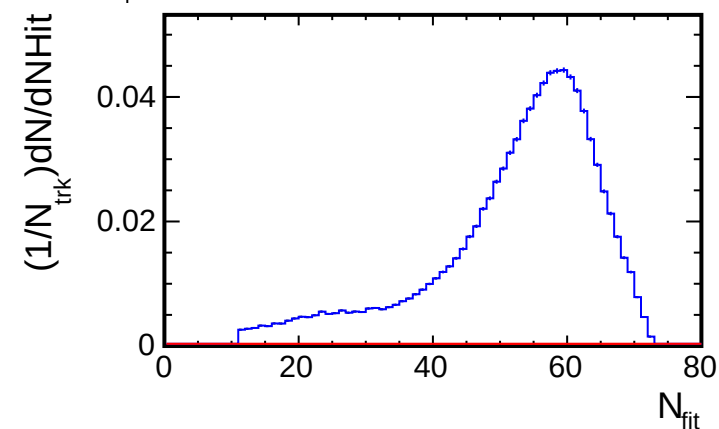
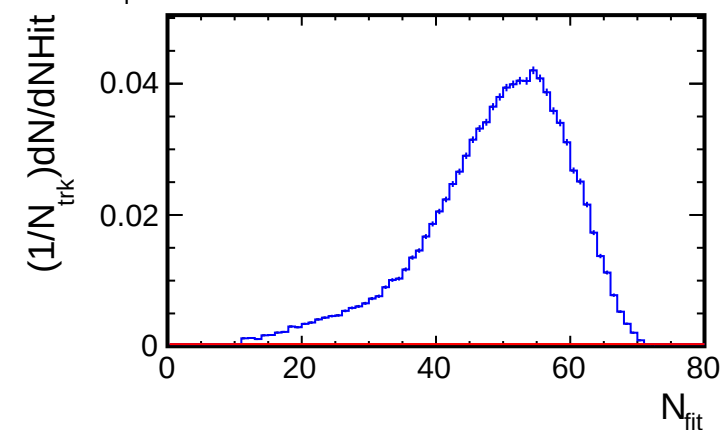
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

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

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)

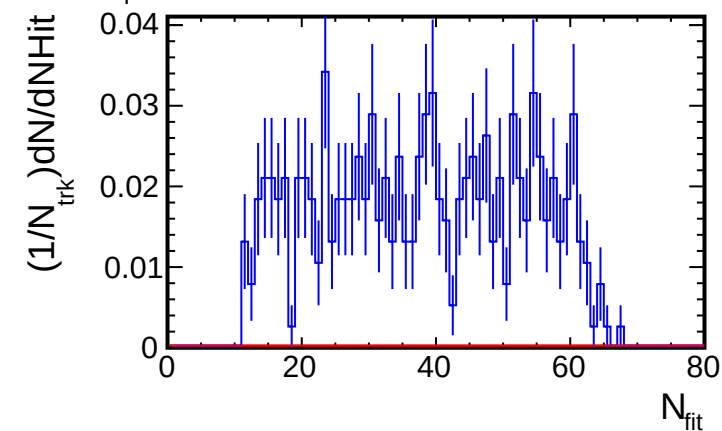
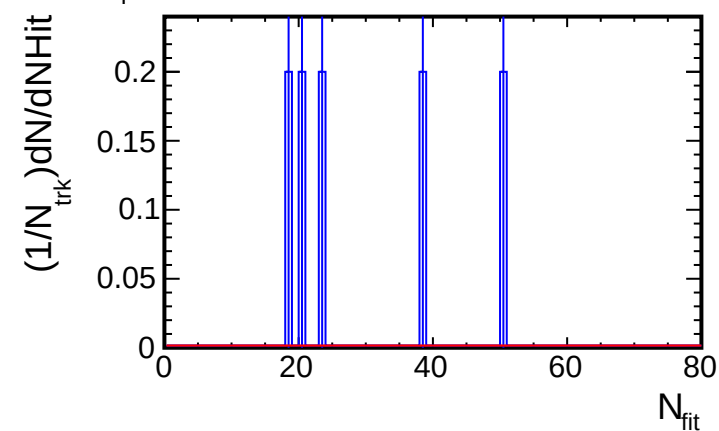
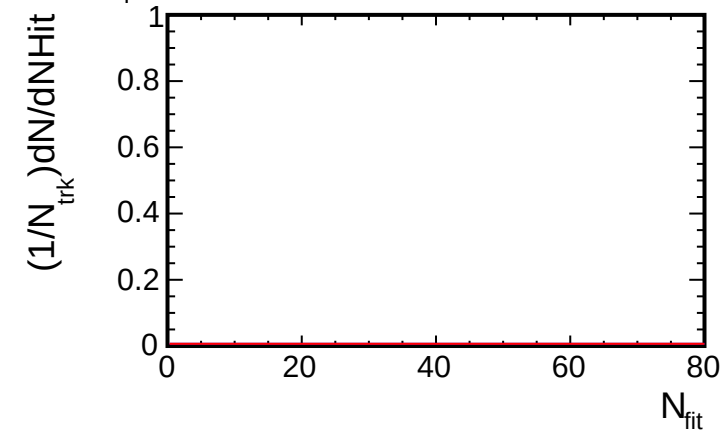
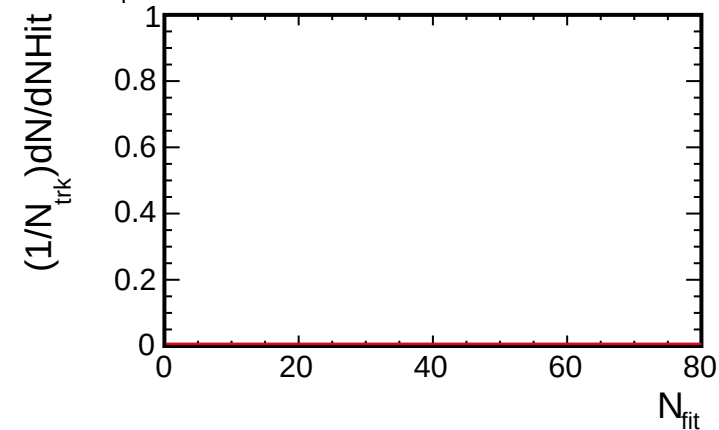
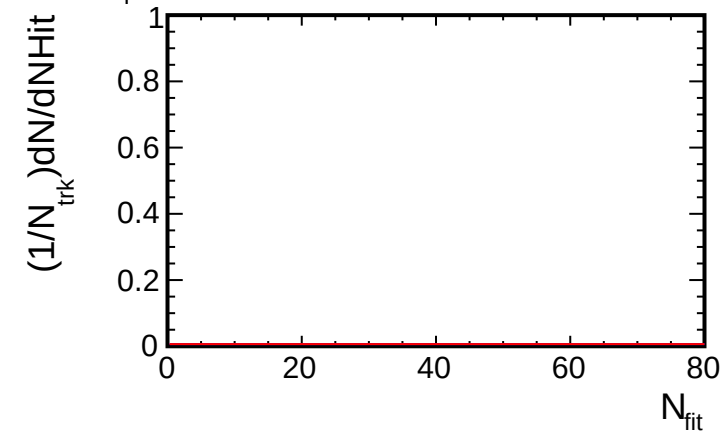
— Daughter π^- (from H4Lambda)
(CONTAM, geantid=9)

— 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)

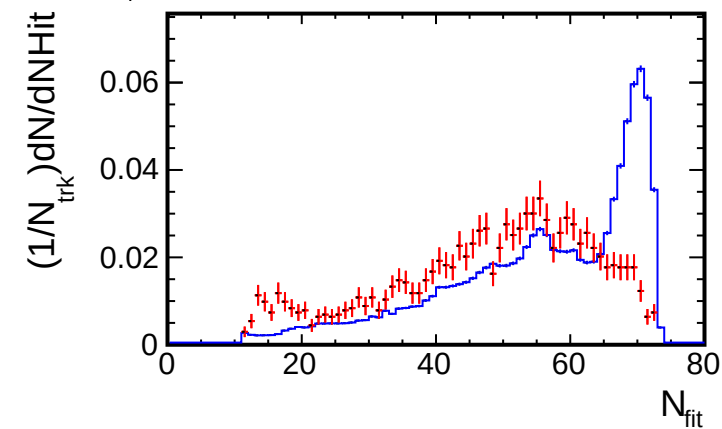
NHit distribution for (p_T , η) slices2, $0.1 < p_T < 0.5$ (GeV/c)4, $0.1 < p_T < 0.5$ (GeV/c)6, $0.1 < p_T < 0.5$ (GeV/c)8, $0.1 < p_T < 0.5$ (GeV/c)0, $0.1 < p_T < 0.5$ (GeV/c)

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

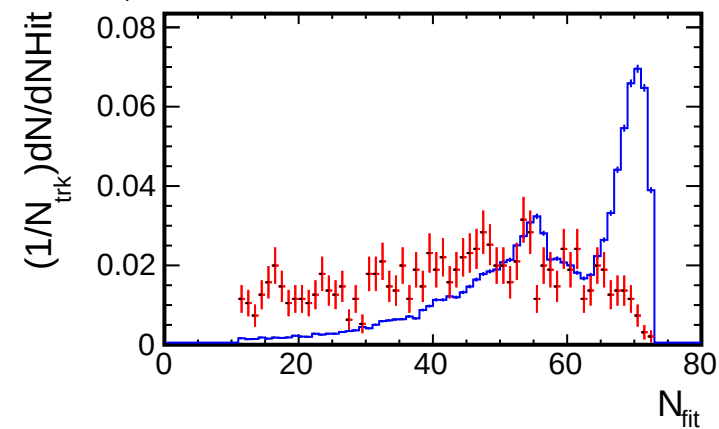
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

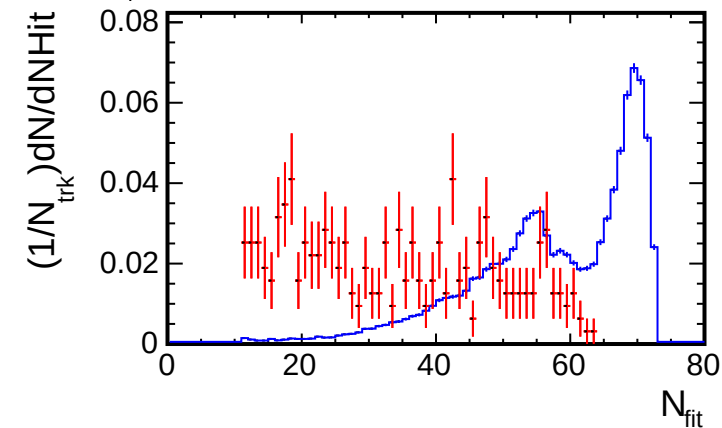
1.8, $0.5 < p_T < 1.0$ (GeV/c)



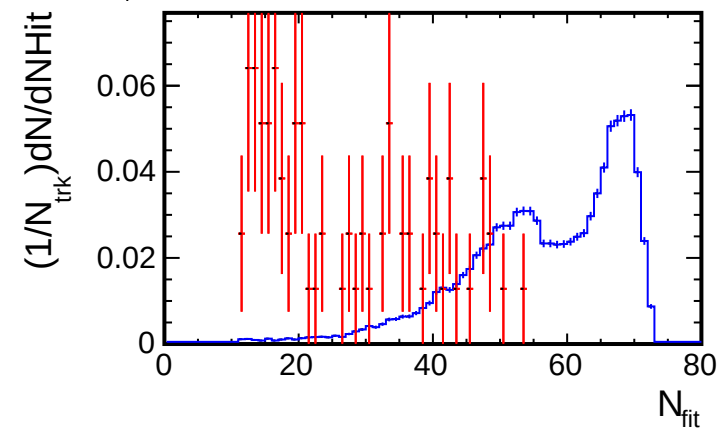
1.6, $0.5 < p_T < 1.0$ (GeV/c)



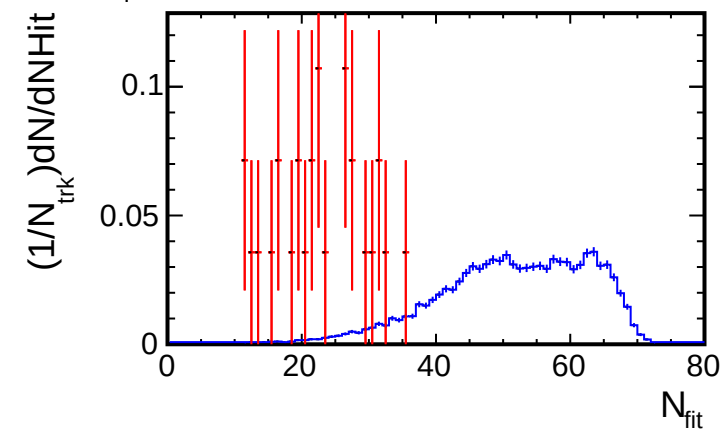
1.4, $0.5 < p_T < 1.0$ (GeV/c)



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



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

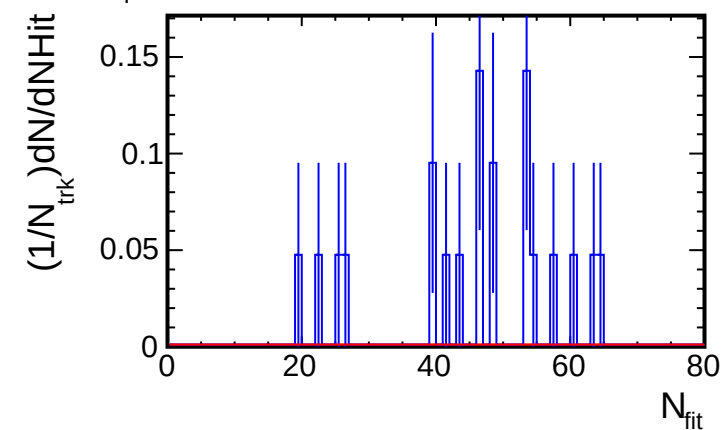


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

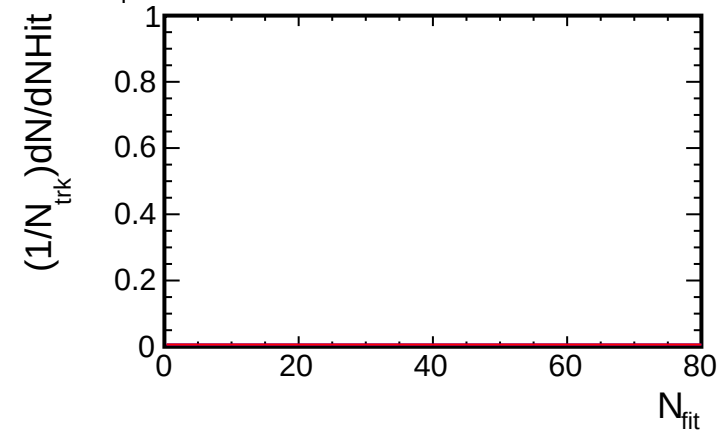
— pi+
(PRIMARY, $|\ln \sigma_{\pi^+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

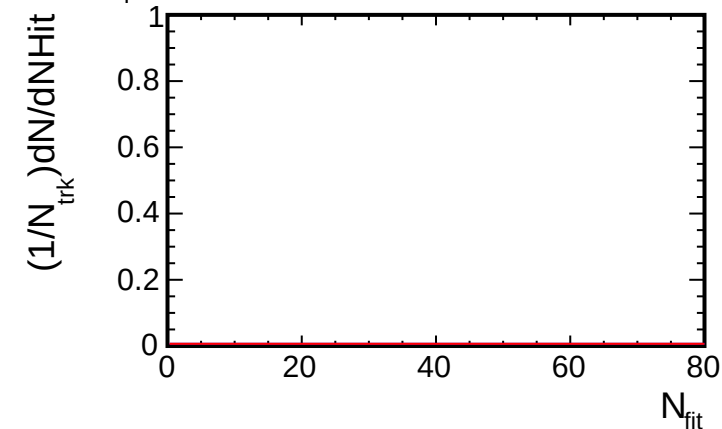
2, $0.5 < p_T < 1.0$ (GeV/c)



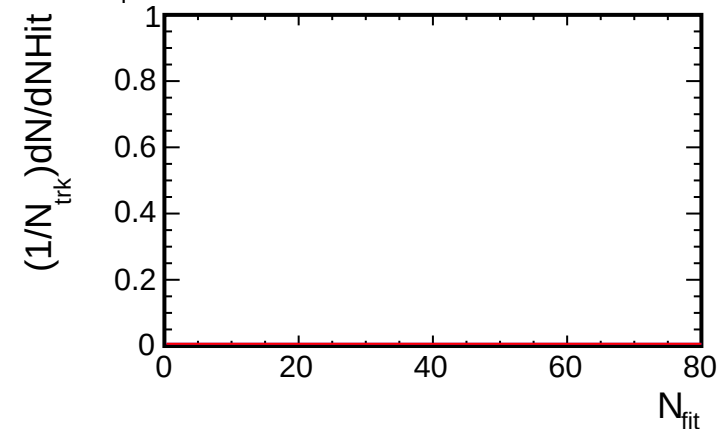
4, $0.5 < p_T < 1.0$ (GeV/c)



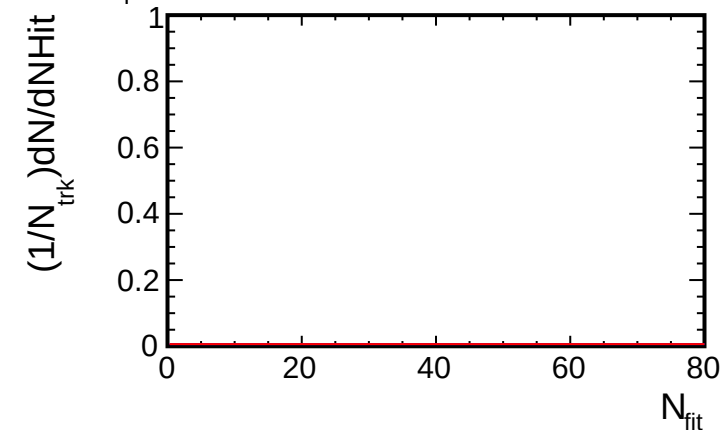
6, $0.5 < p_T < 1.0$ (GeV/c)



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



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

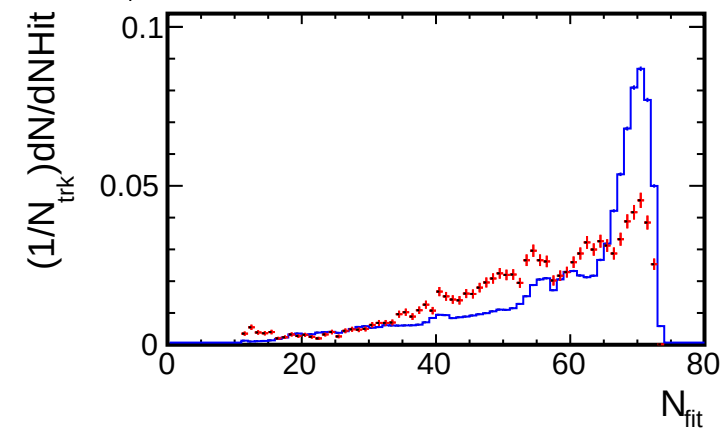


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

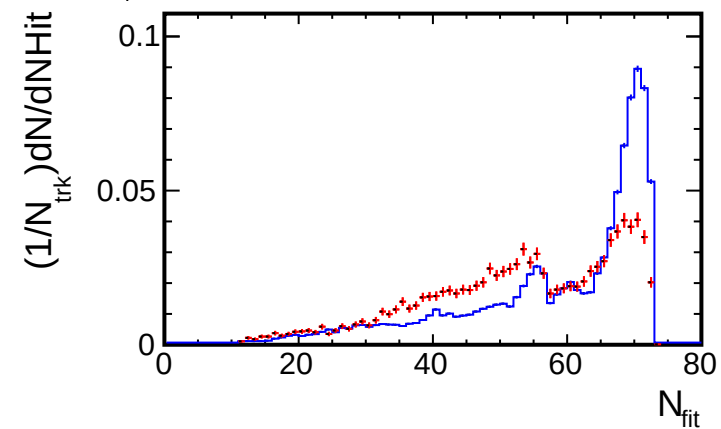
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

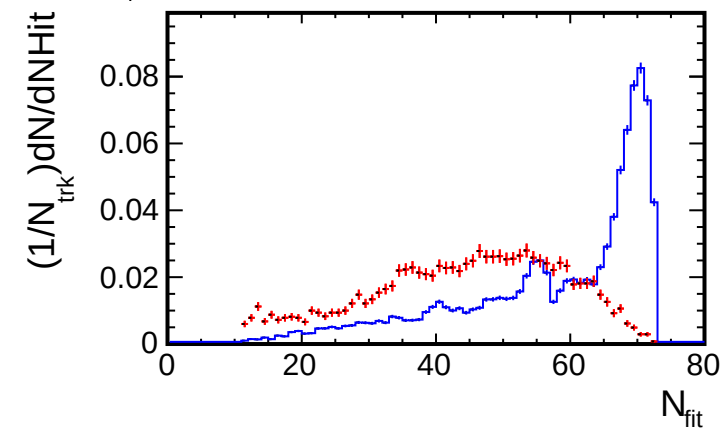
1.8, $1.0 < p_T < 1.5$ (GeV/c)



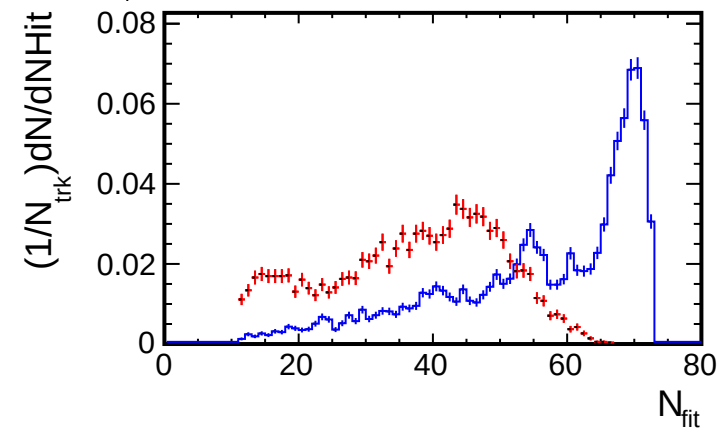
1.6, $1.0 < p_T < 1.5$ (GeV/c)



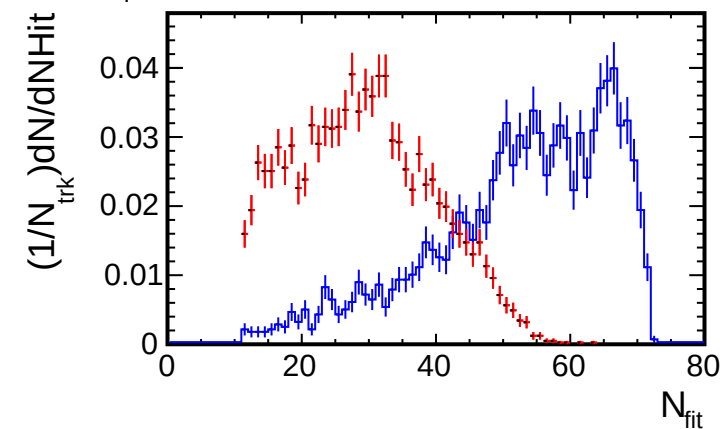
1.4, $1.0 < p_T < 1.5$ (GeV/c)



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

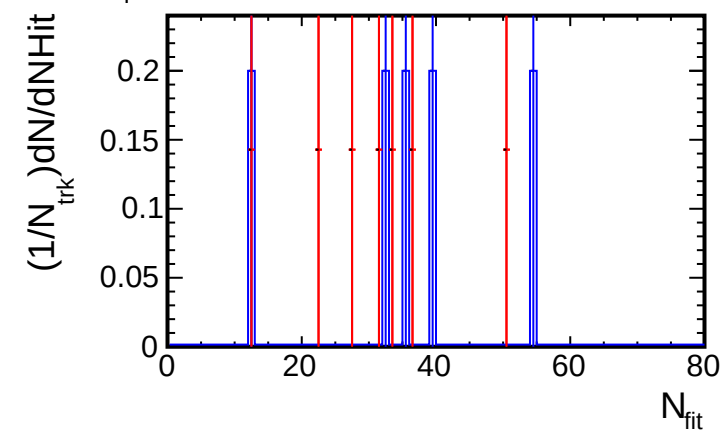
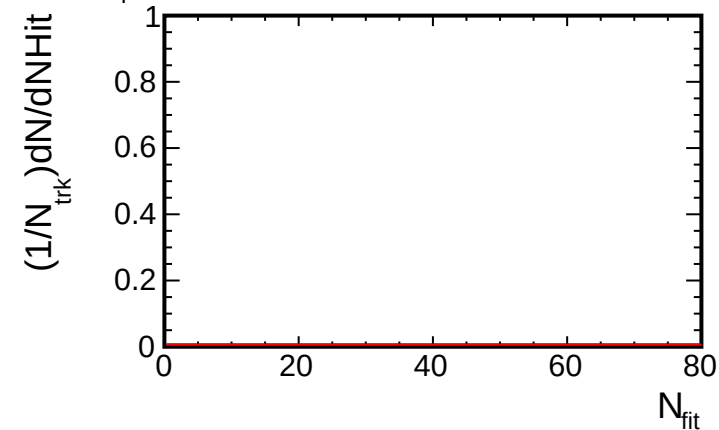
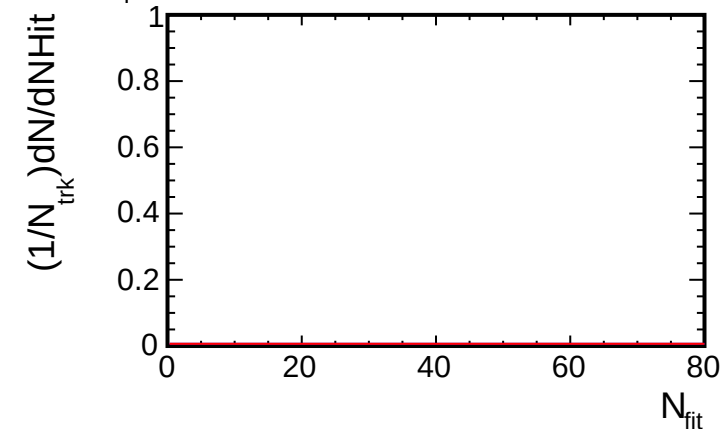
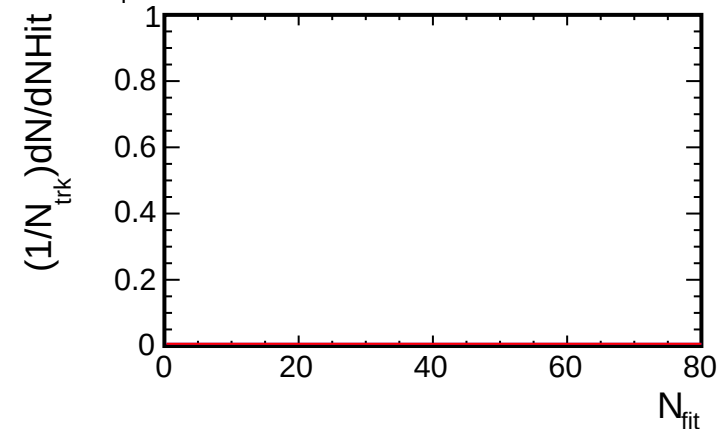
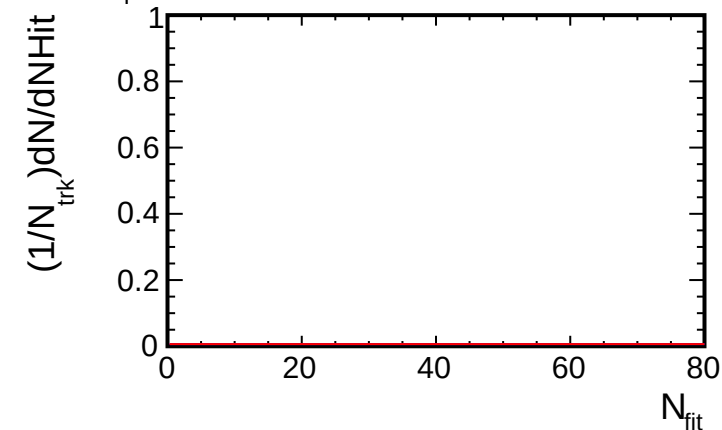


1.0, $1.0 < p_T < 1.5$ (GeV/c)



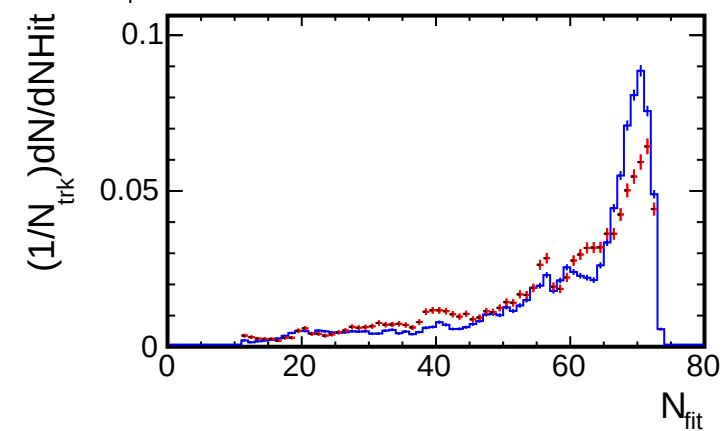
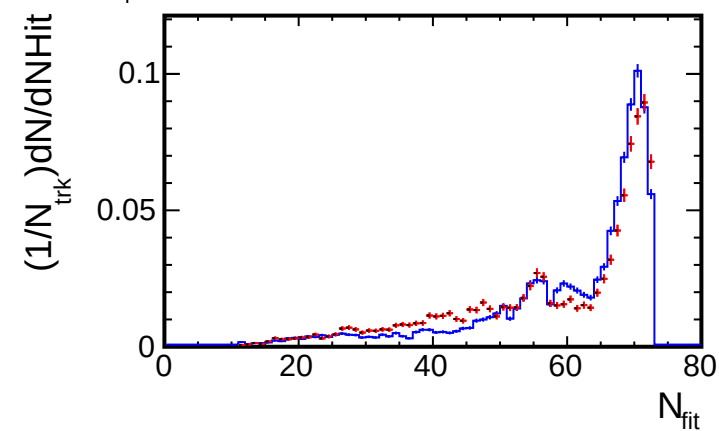
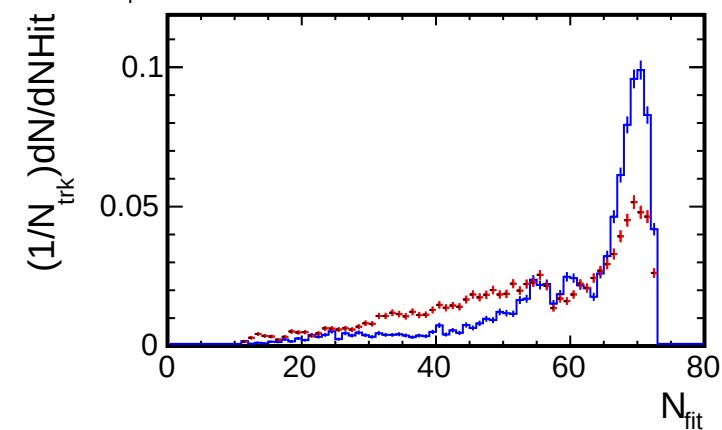
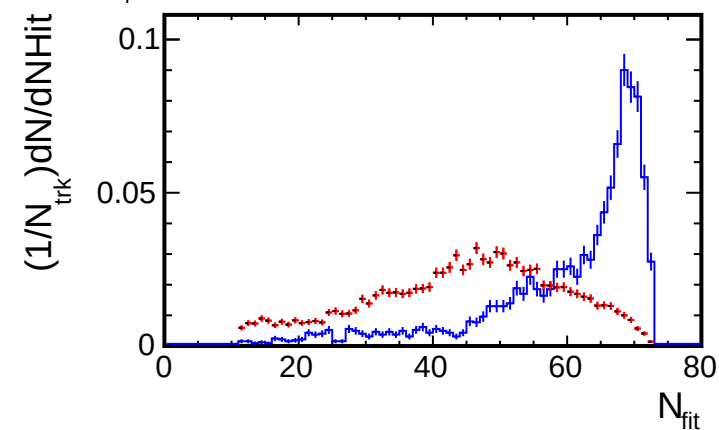
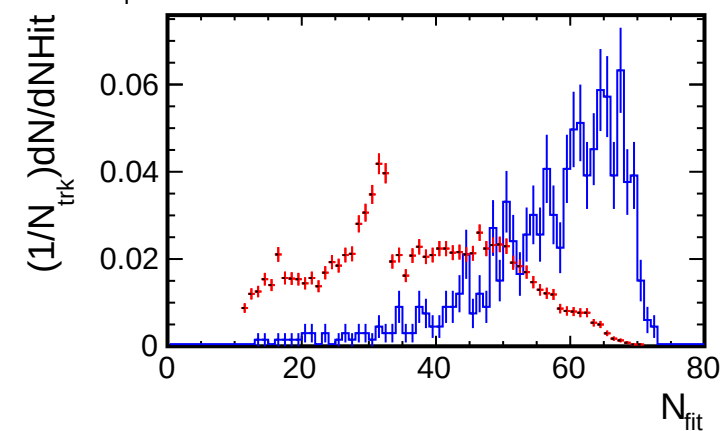
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) 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)

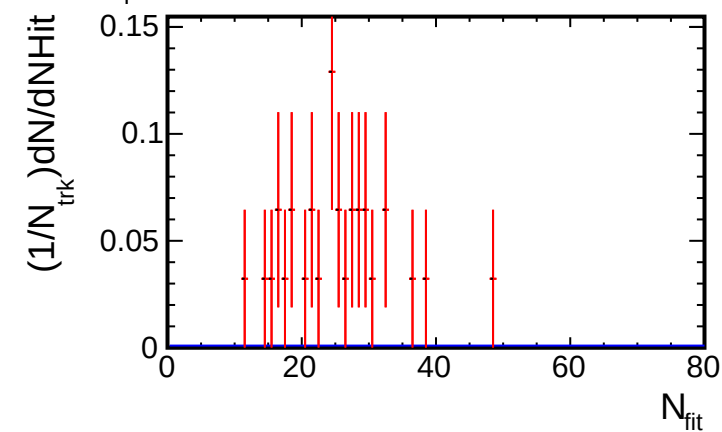
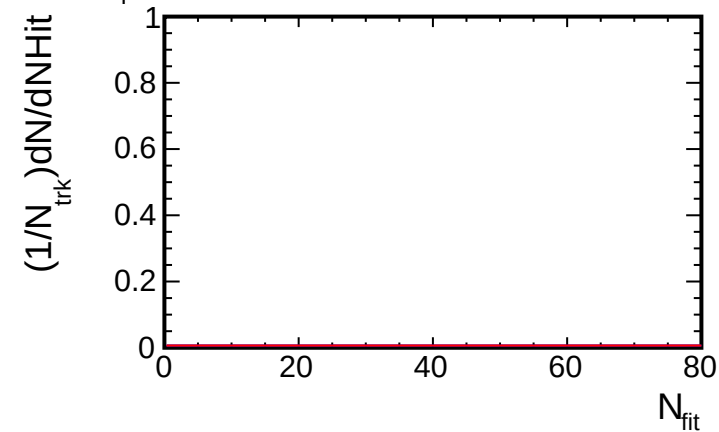
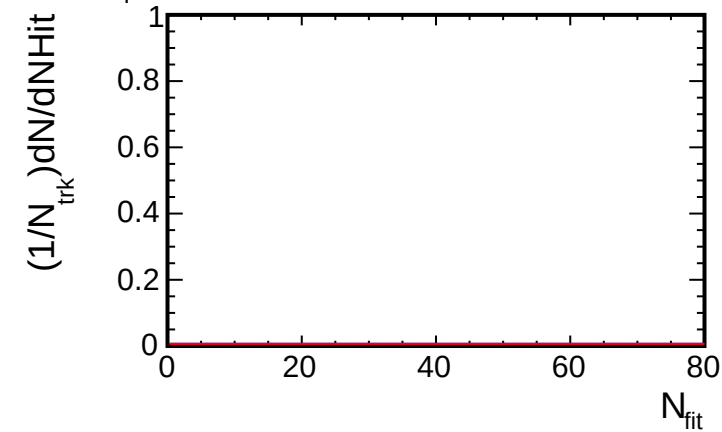
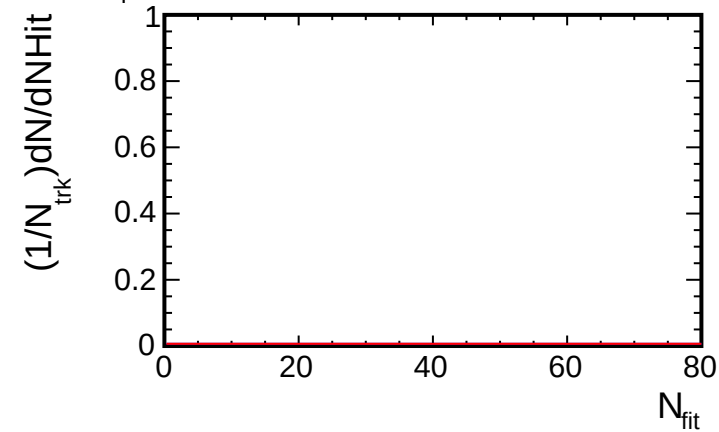
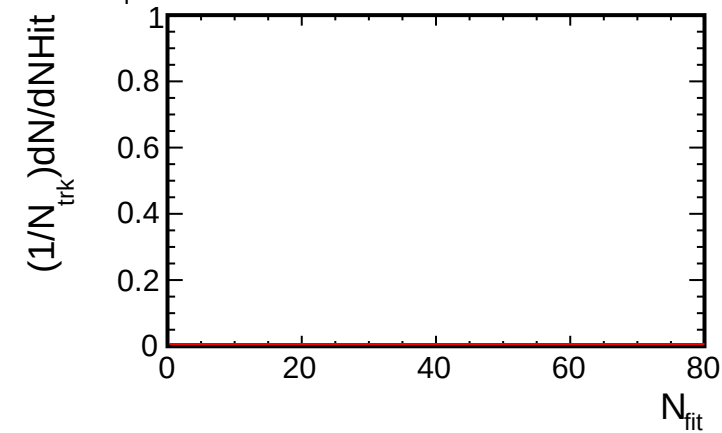
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

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

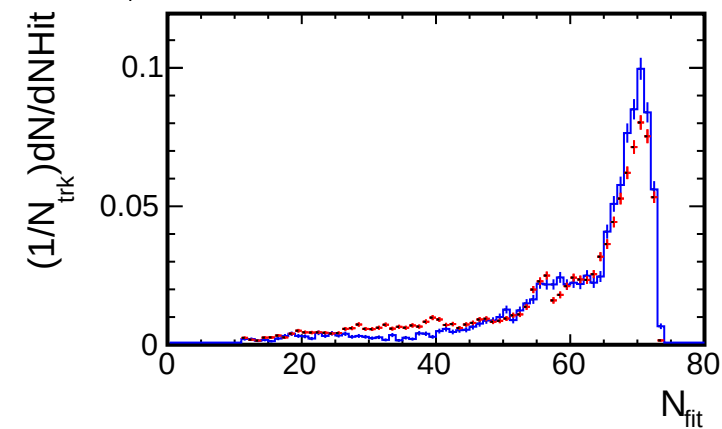
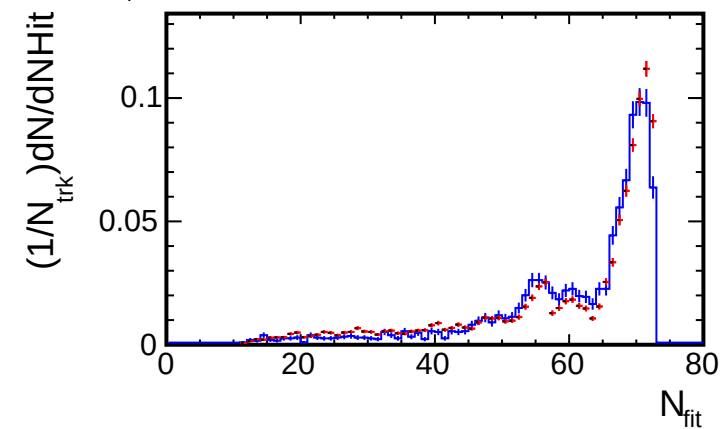
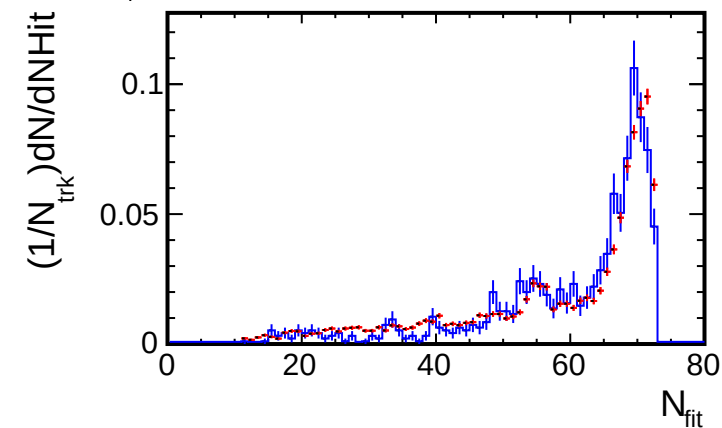
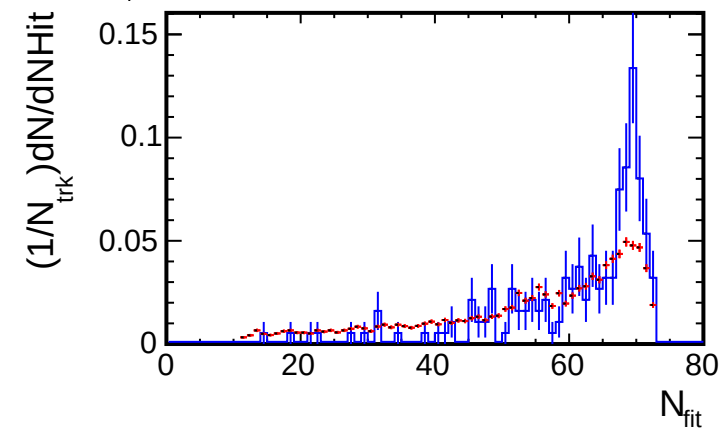
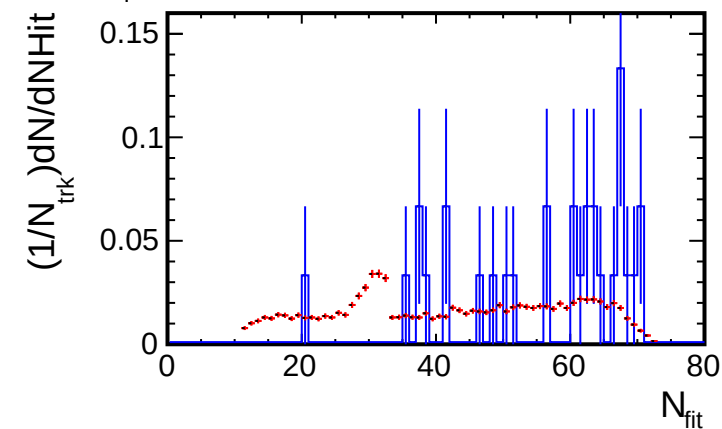
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— 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)

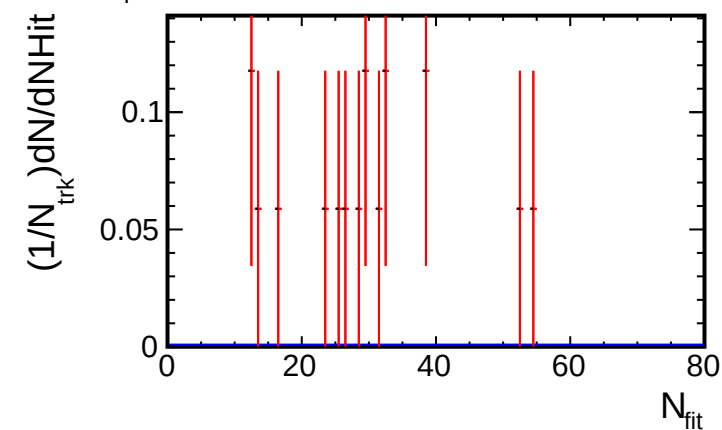
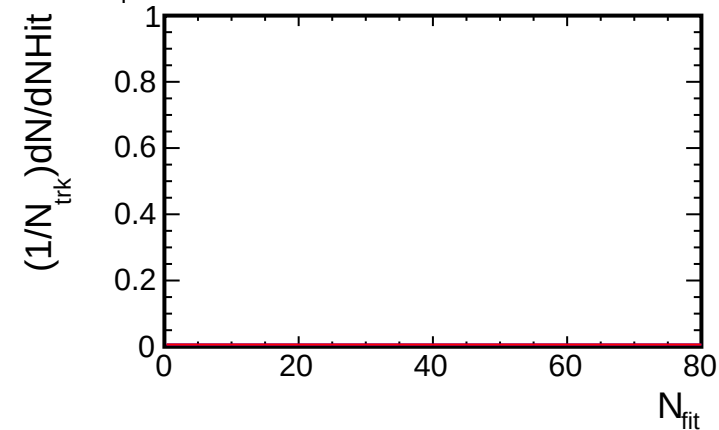
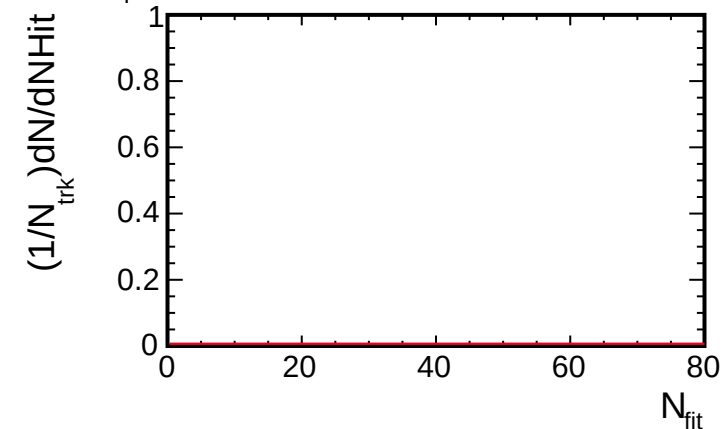
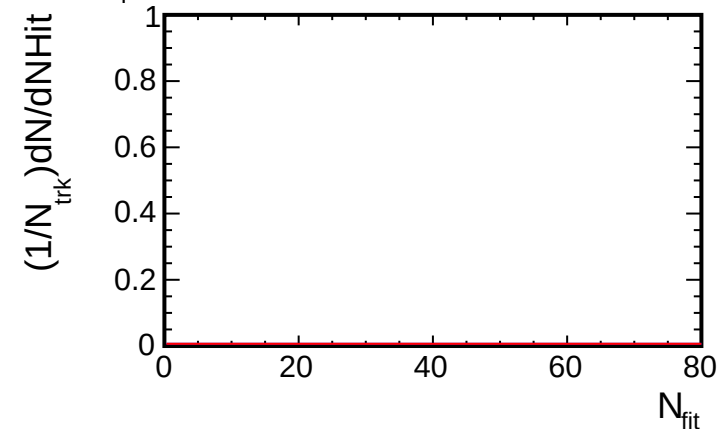
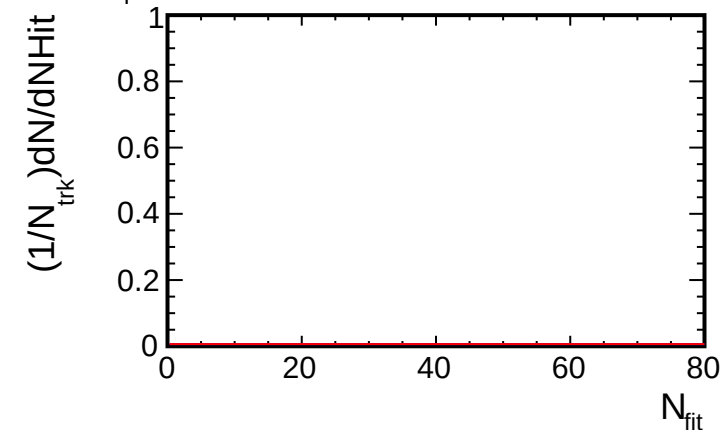
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

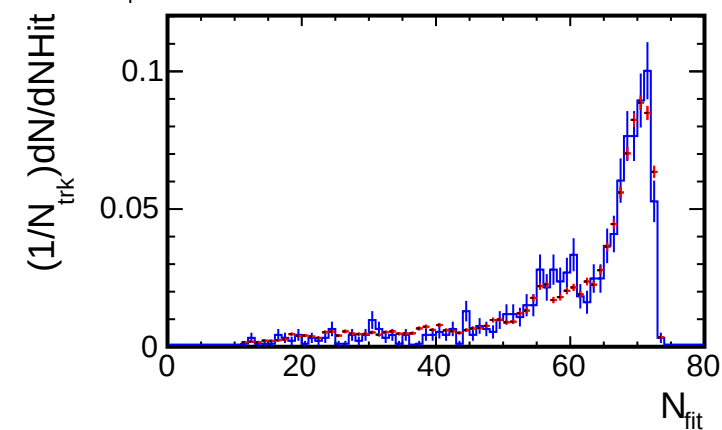
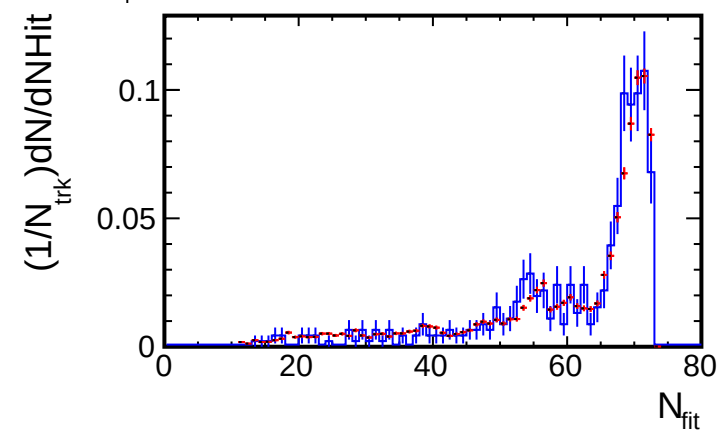
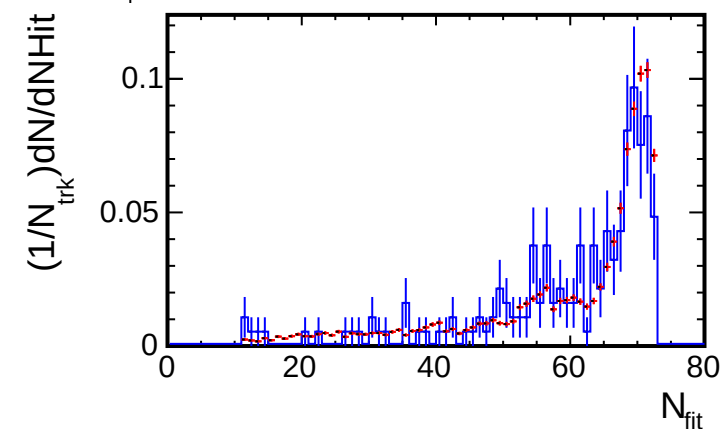
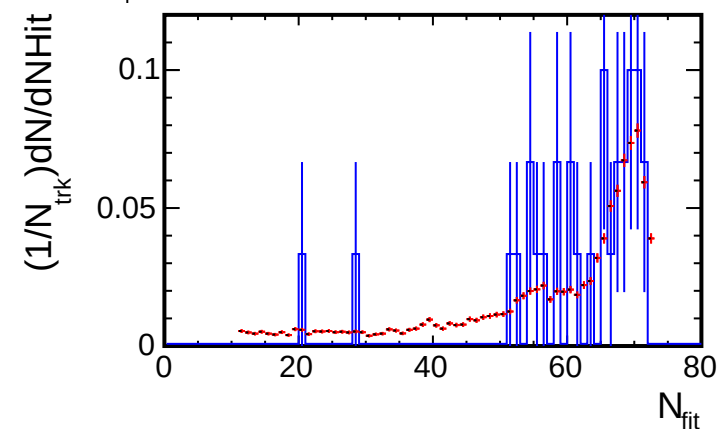
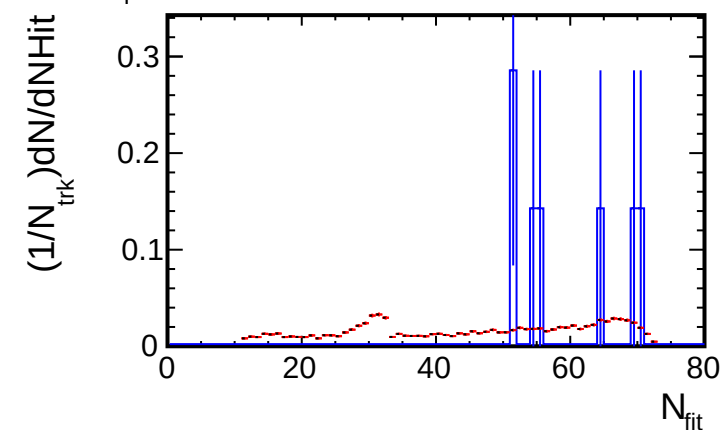
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

NHit distribution for (p_T , η) 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)

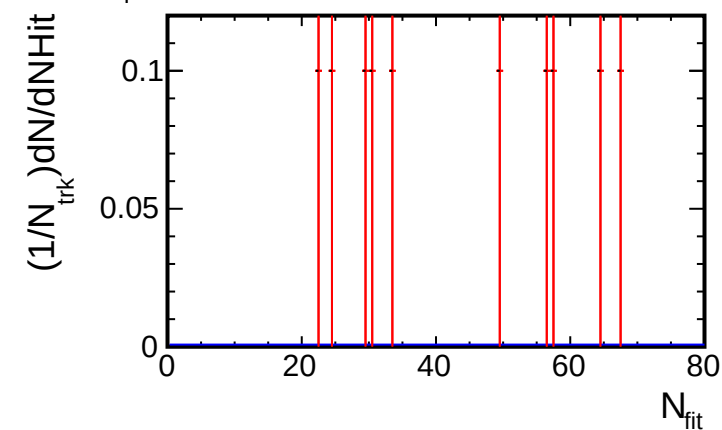
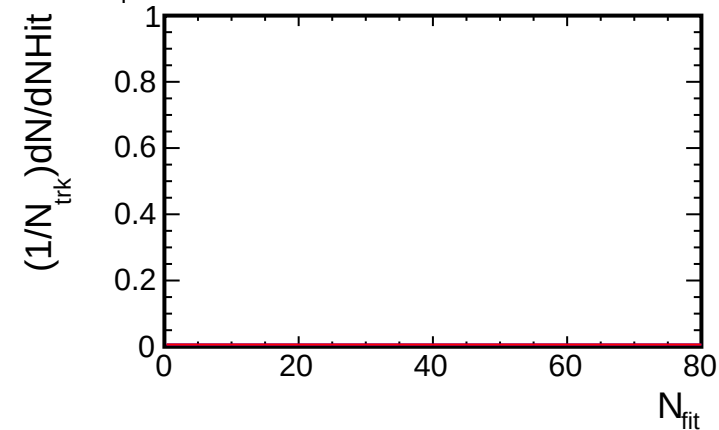
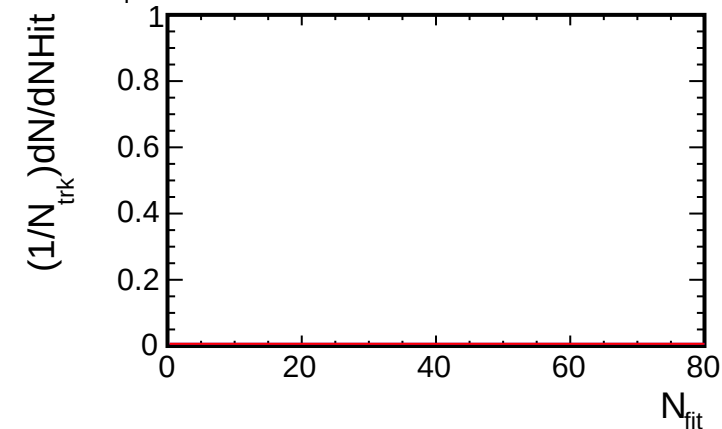
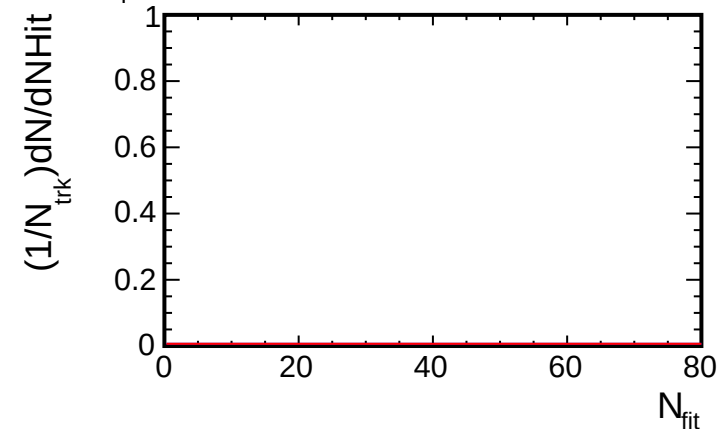
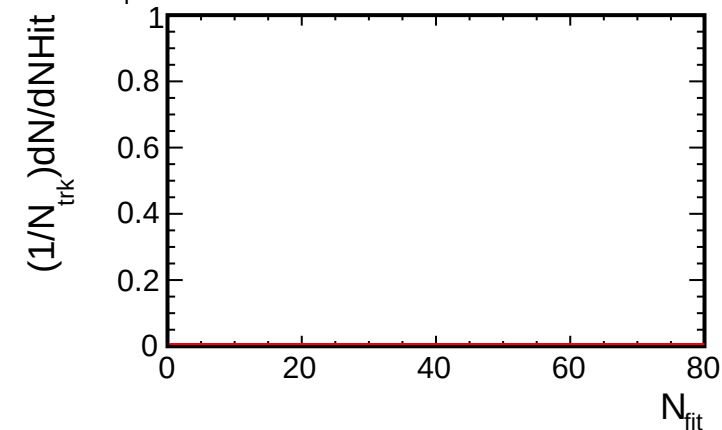
— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ 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 alpha (from H4Lambda)
(CONTAM, geantid=47)

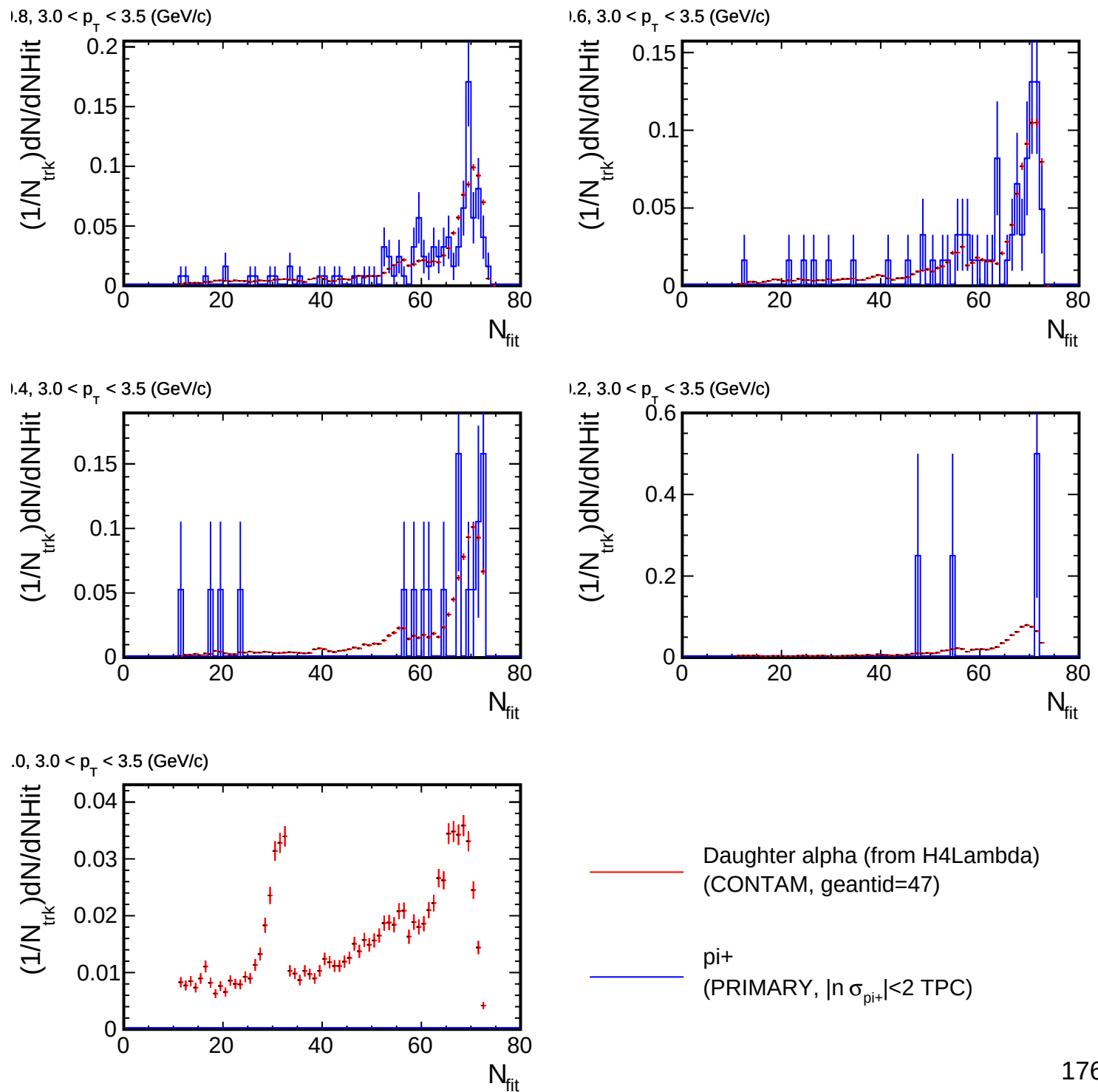
— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ TPC)

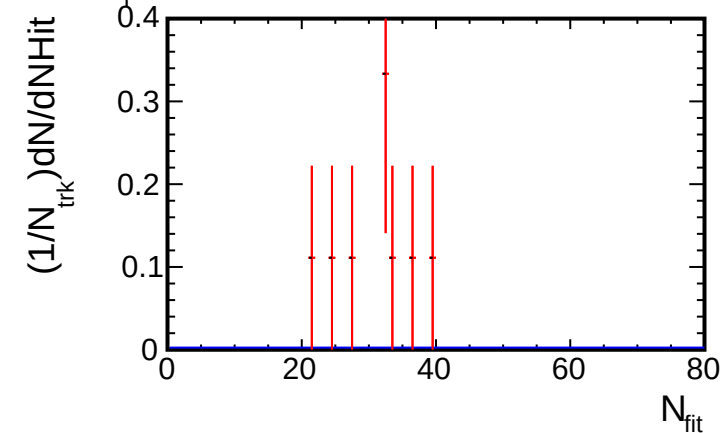
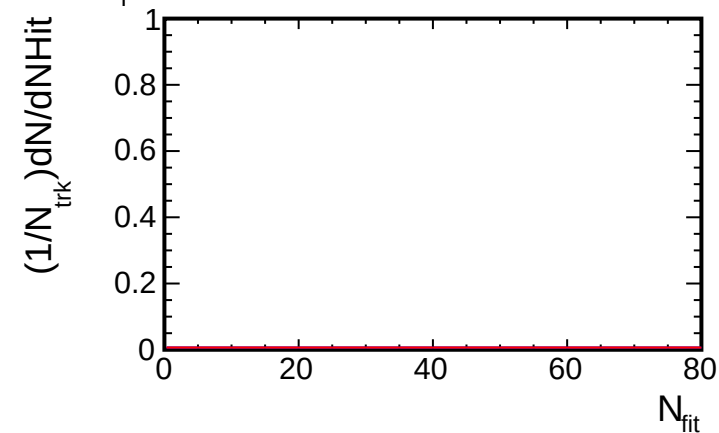
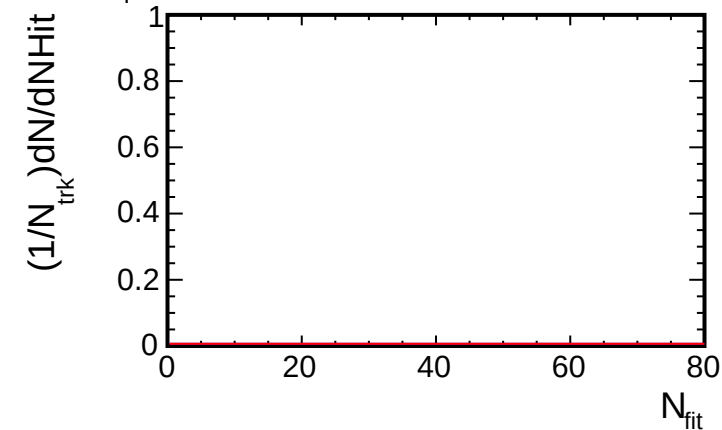
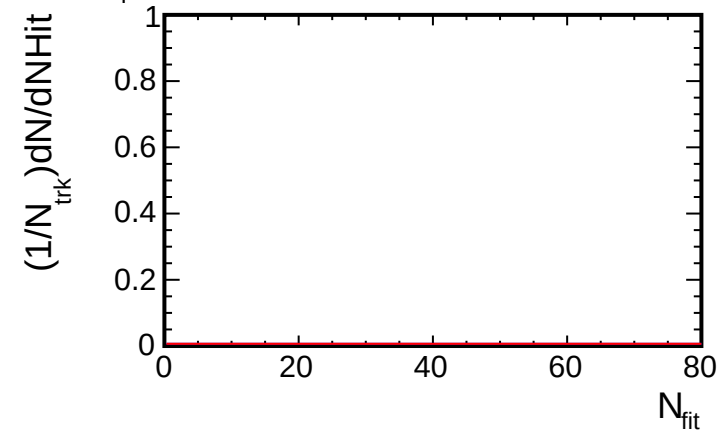
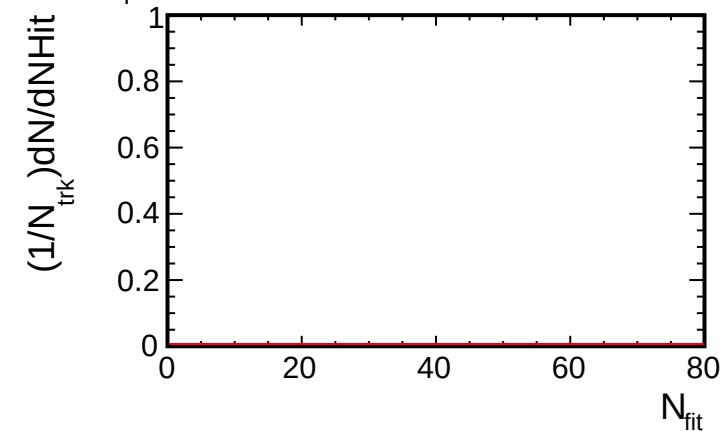
NHit distribution for (p_T , η) slices2, $2.5 < p_T < 3.0$ (GeV/c)4, $2.5 < p_T < 3.0$ (GeV/c)6, $2.5 < p_T < 3.0$ (GeV/c)8, $2.5 < p_T < 3.0$ (GeV/c)0, $2.5 < p_T < 3.0$ (GeV/c)

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

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

NHit distribution for (p_T , η) slices



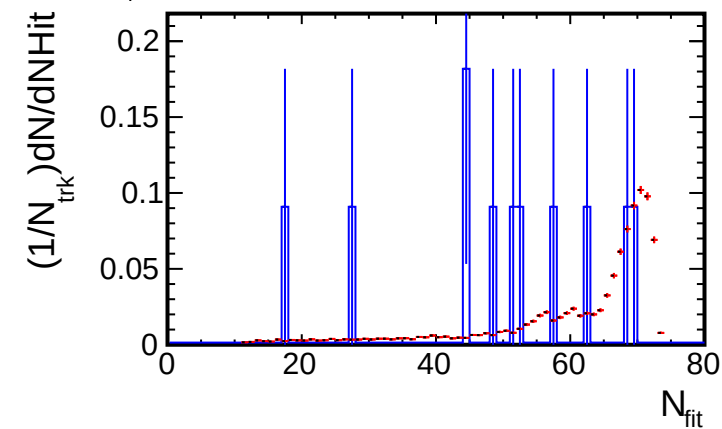
NHit distribution for (p_T , η) slices2, $3.0 < p_T < 3.5$ (GeV/c)4, $3.0 < p_T < 3.5$ (GeV/c)6, $3.0 < p_T < 3.5$ (GeV/c)8, $3.0 < p_T < 3.5$ (GeV/c)0, $3.0 < p_T < 3.5$ (GeV/c)

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

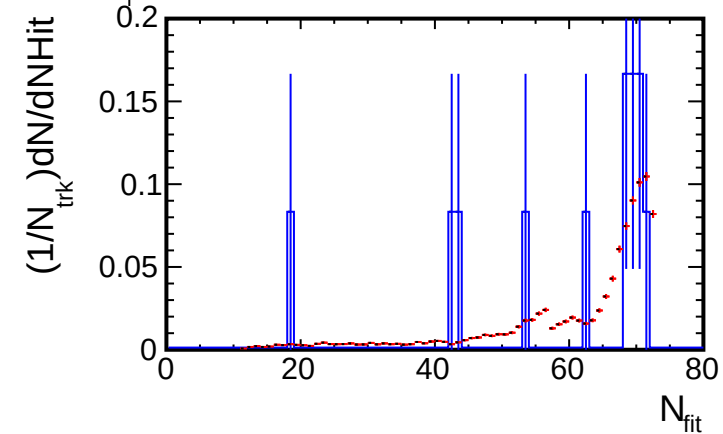
— pi+
(PRIMARY, $|\ln \sigma_{pi+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

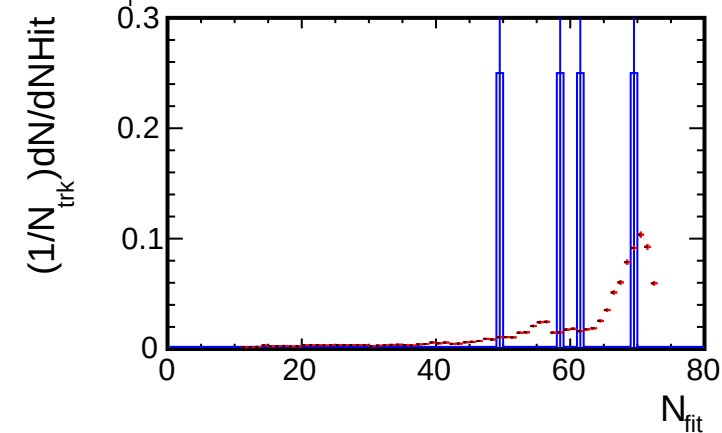
1.8, $3.5 < p_T < 4.0$ (GeV/c)



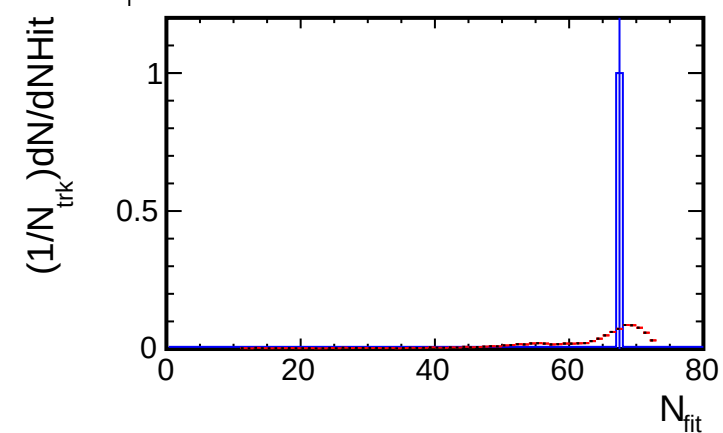
1.6, $3.5 < p_T < 4.0$ (GeV/c)



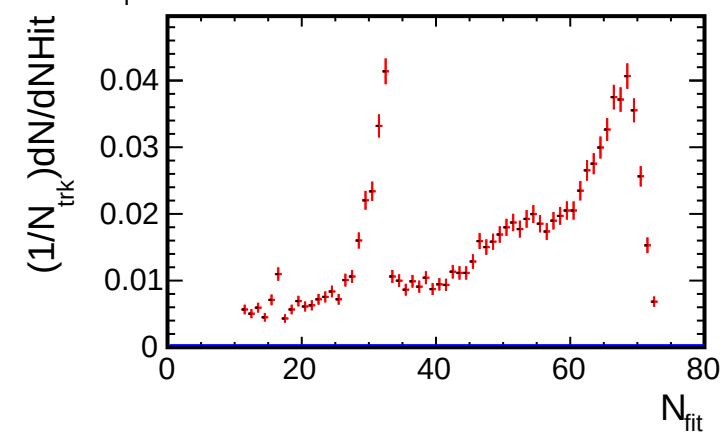
1.4, $3.5 < p_T < 4.0$ (GeV/c)



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



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

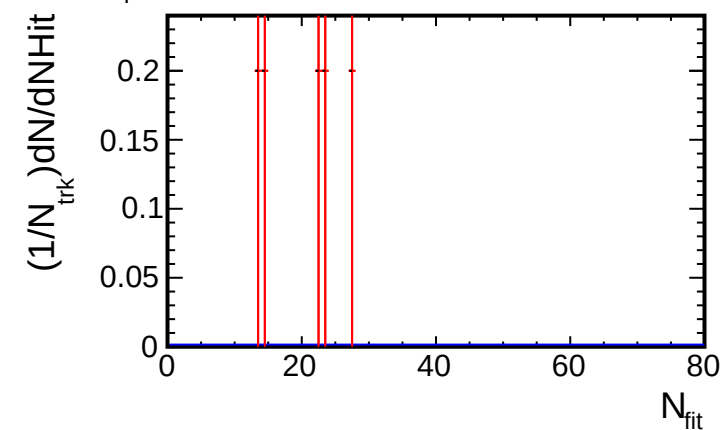


— Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

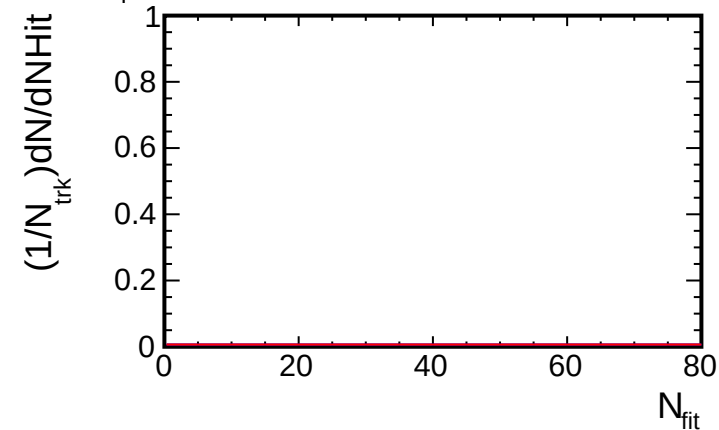
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

NHit distribution for (p_T , η) slices

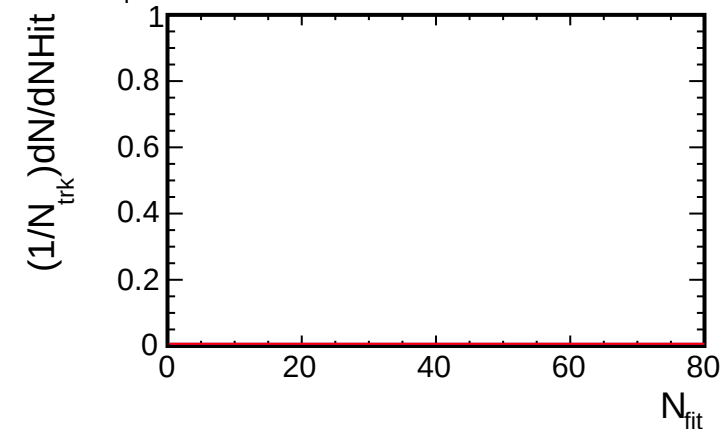
2, $3.5 < p_T < 4.0$ (GeV/c)



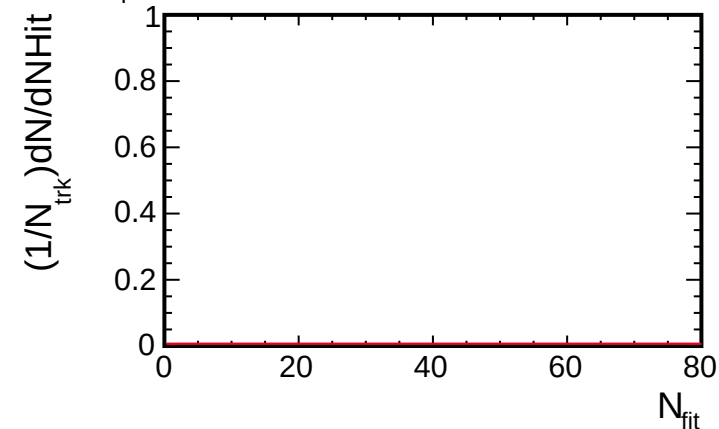
4, $3.5 < p_T < 4.0$ (GeV/c)



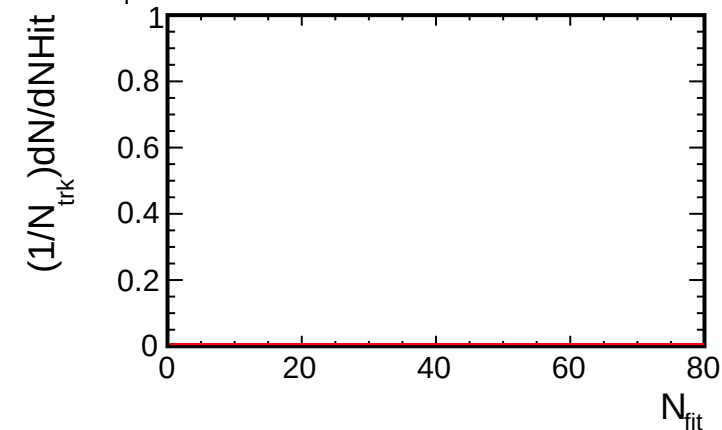
6, $3.5 < p_T < 4.0$ (GeV/c)



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

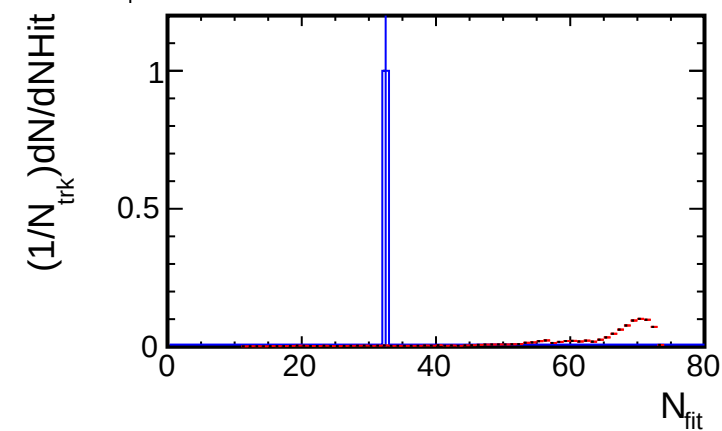
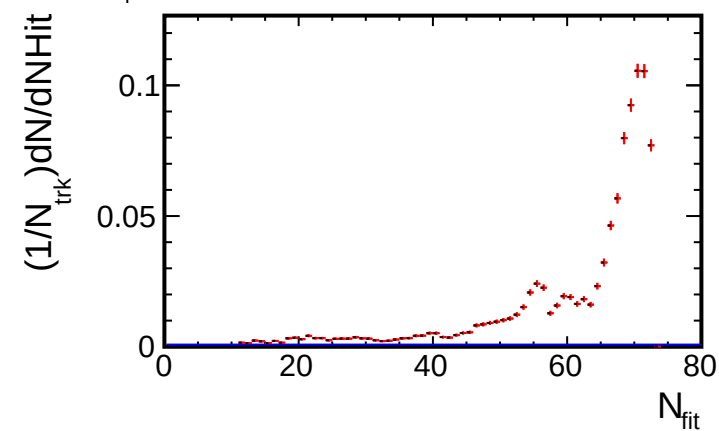
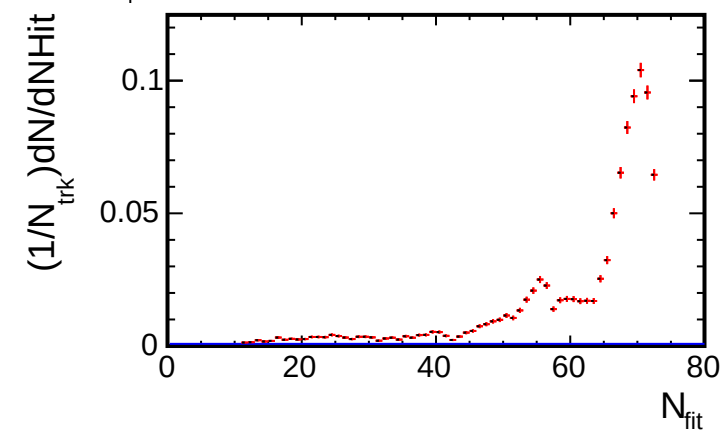
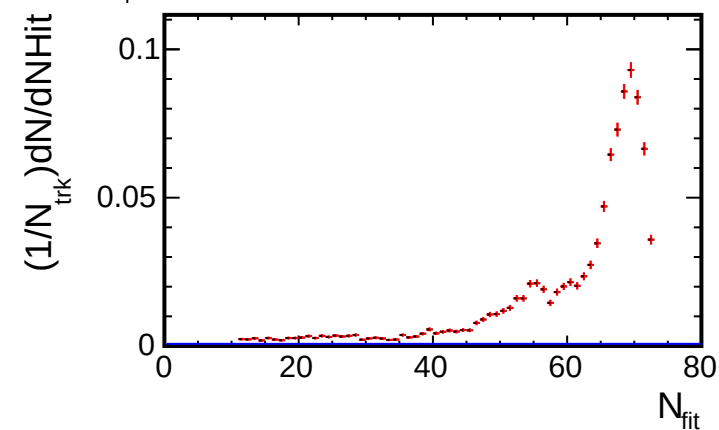
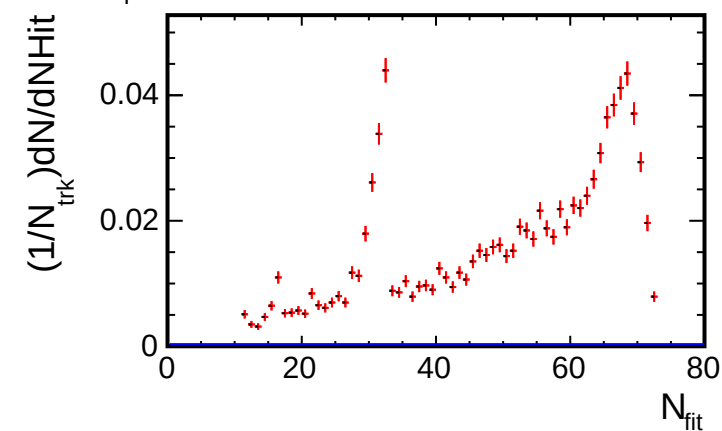


0, $3.5 < p_T < 4.0$ (GeV/c)



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

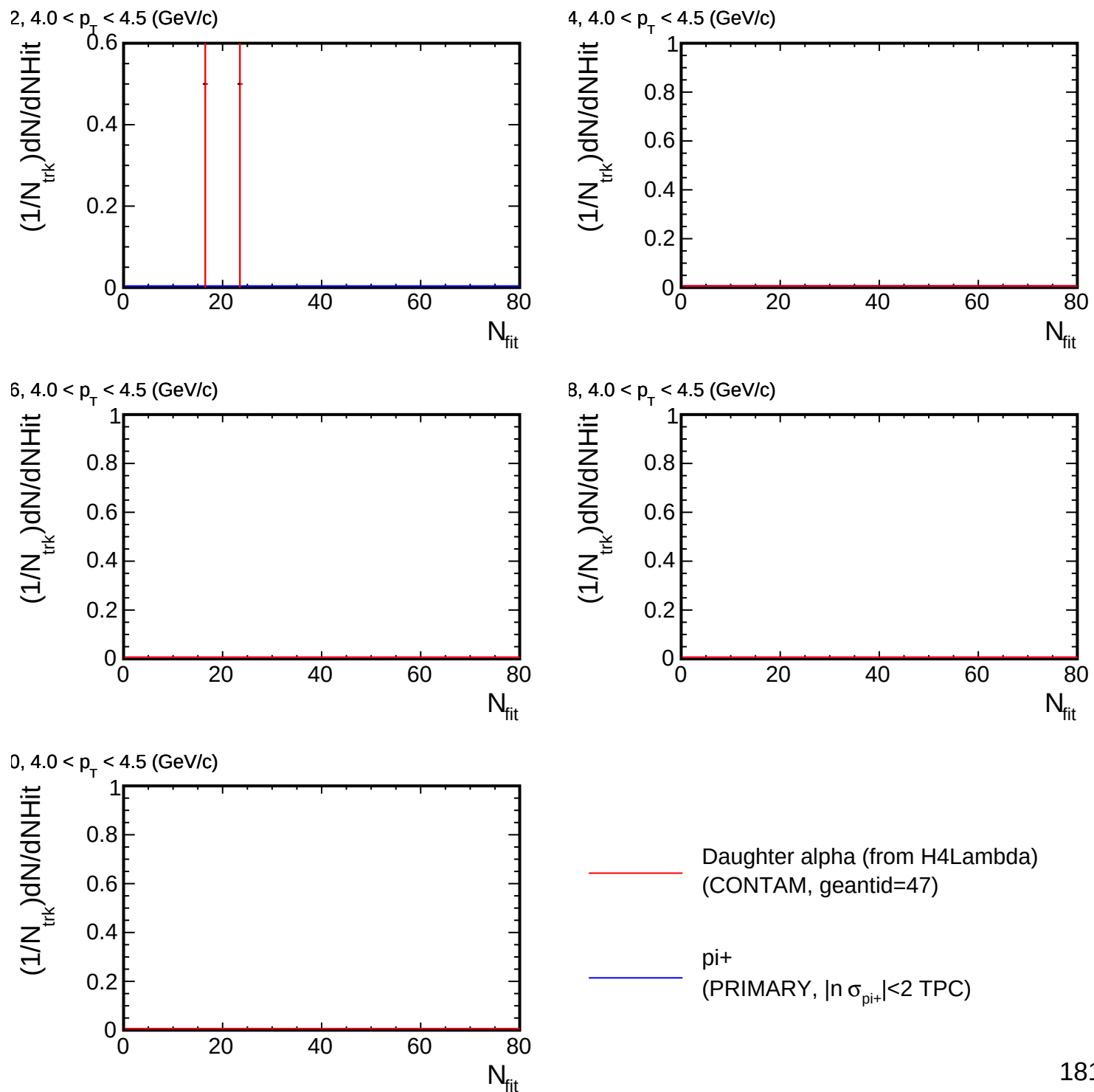
— pi+
(PRIMARY, $|\ln \sigma_{\text{pi}+}| < 2$ TPC)

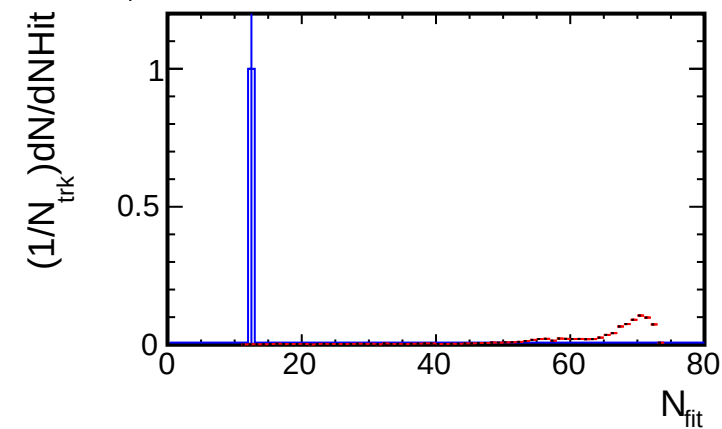
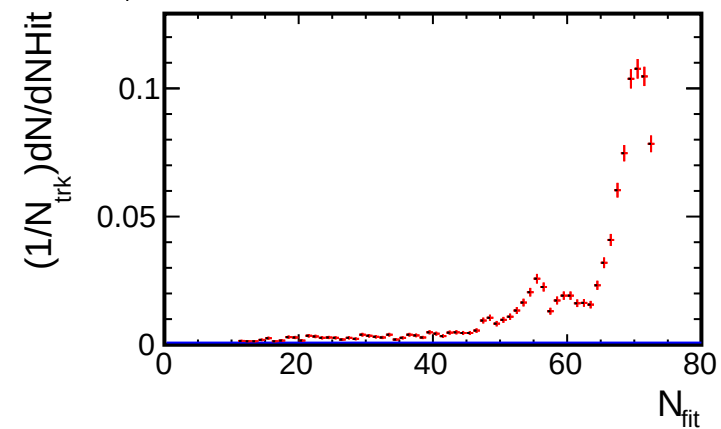
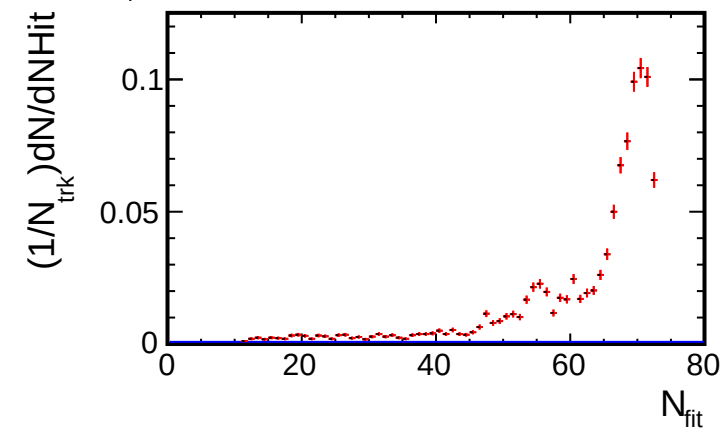
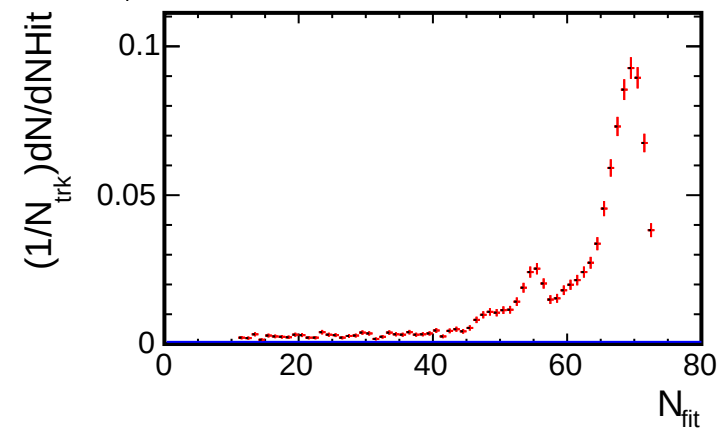
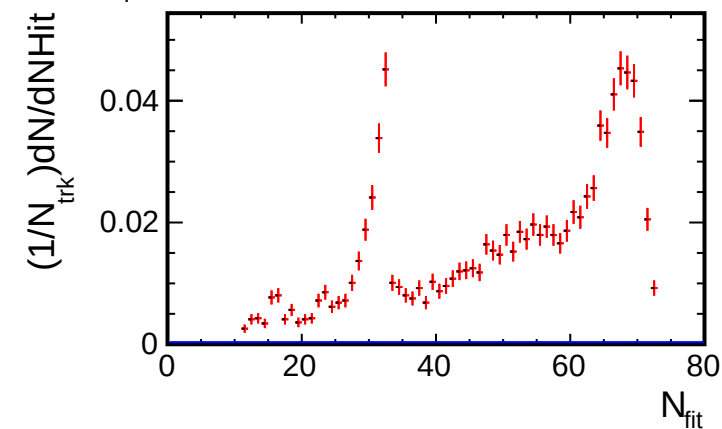
NHit distribution for (p_T , η) slices1.8, $4.0 < p_T < 4.5$ (GeV/c)1.6, $4.0 < p_T < 4.5$ (GeV/c)1.4, $4.0 < p_T < 4.5$ (GeV/c)1.2, $4.0 < p_T < 4.5$ (GeV/c)1.0, $4.0 < p_T < 4.5$ (GeV/c)

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

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

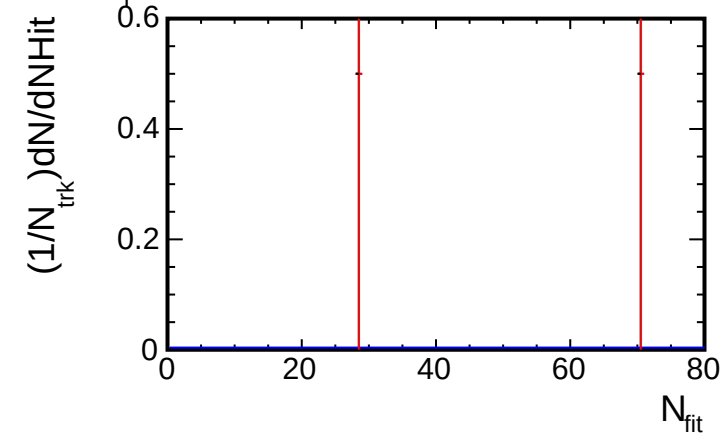
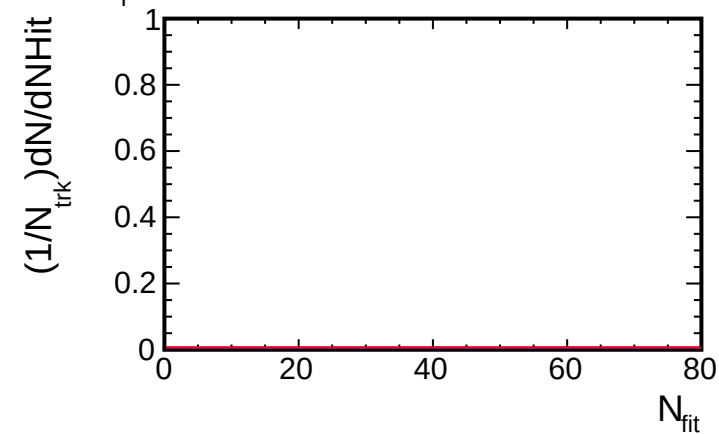
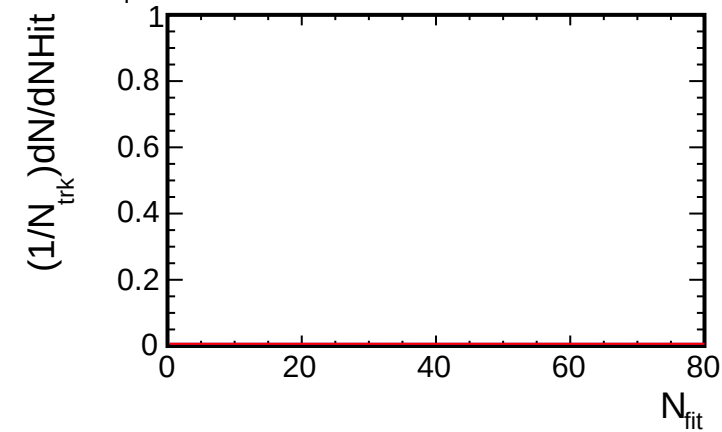
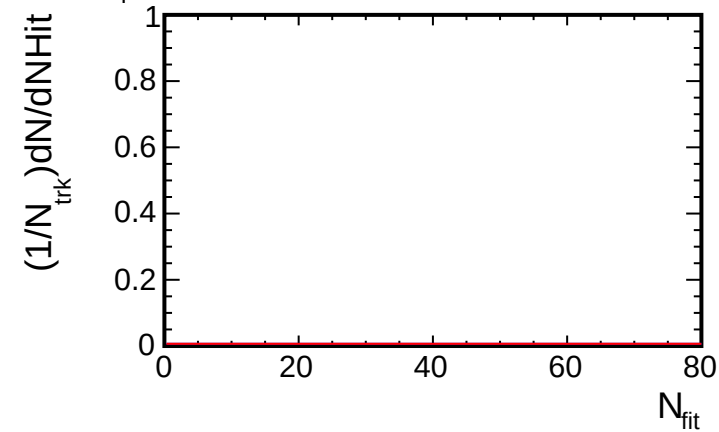
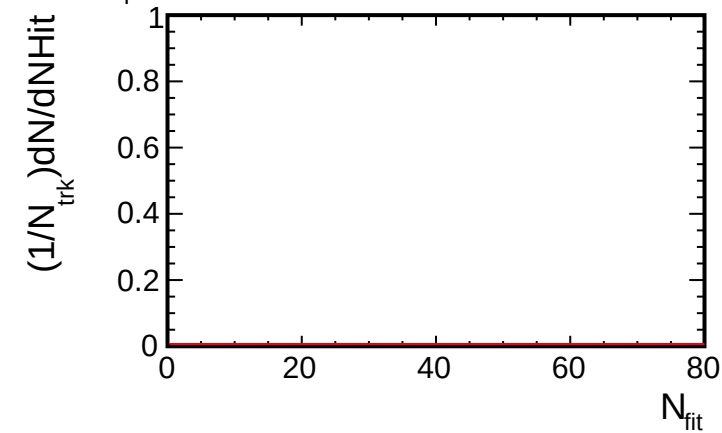
NHit distribution for (p_T , η) slices



NHit 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)

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