Embedding QA

embedding + real

Color code for embedding and real data

MC (black)

Reconstructed embedding tracks* (red)

Real** (blue)

* matched pairs or contaminated pairs

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

Event & track selections

*** Event selections

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

trigger id cut : id = 730000

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

*** Track selections

$0.0 < p_T < 5.0$ GeV/c

$|\eta| < 10.00$

$|y| < 2.20$

nHitsFit > 10

nHitsFit/nHitsPoss > 0.51

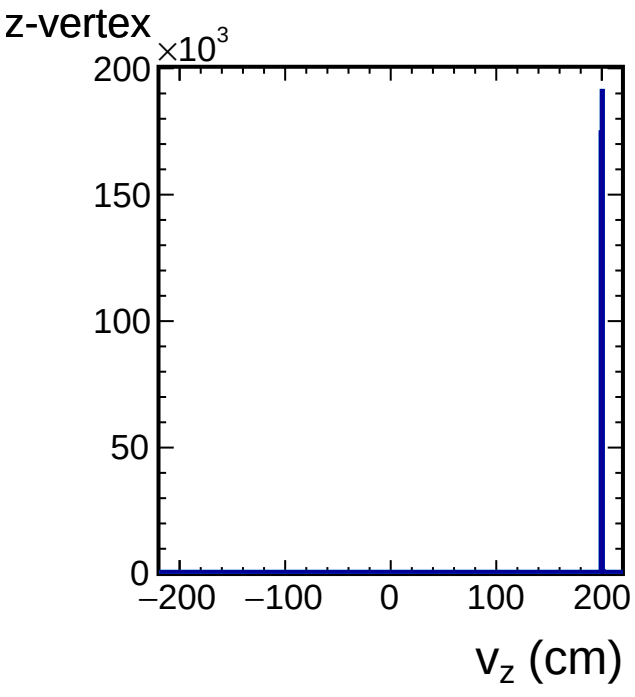
global Dca < 3.0 cm

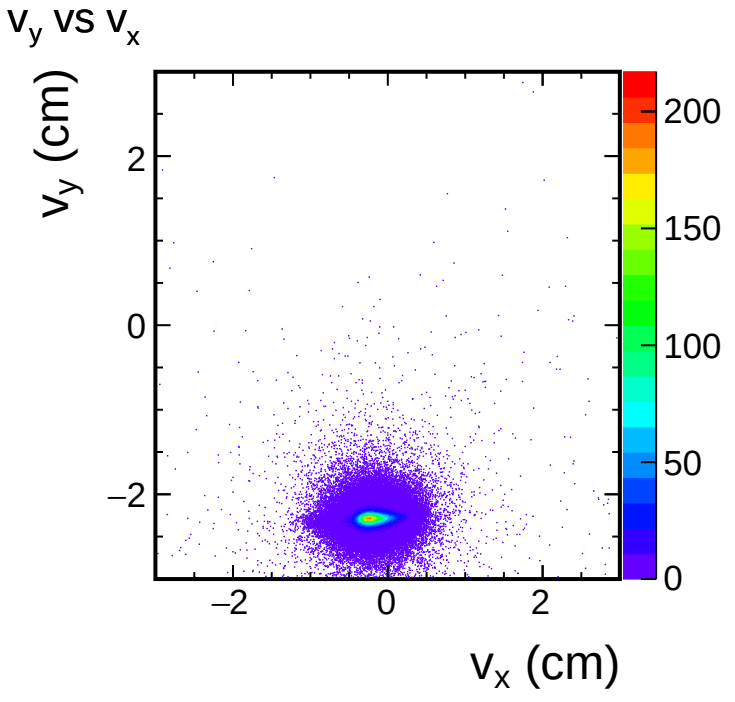
$|n\sigma| < 2.0$, using TPC dE/dx

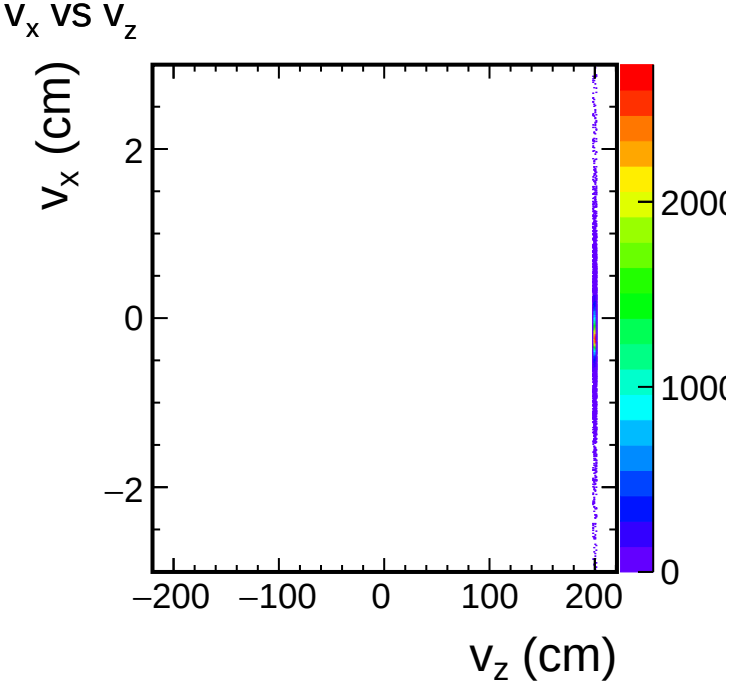
NOTE1: Rapidity cut for real data has to be made manually in doEmbeddingQAMaker.C

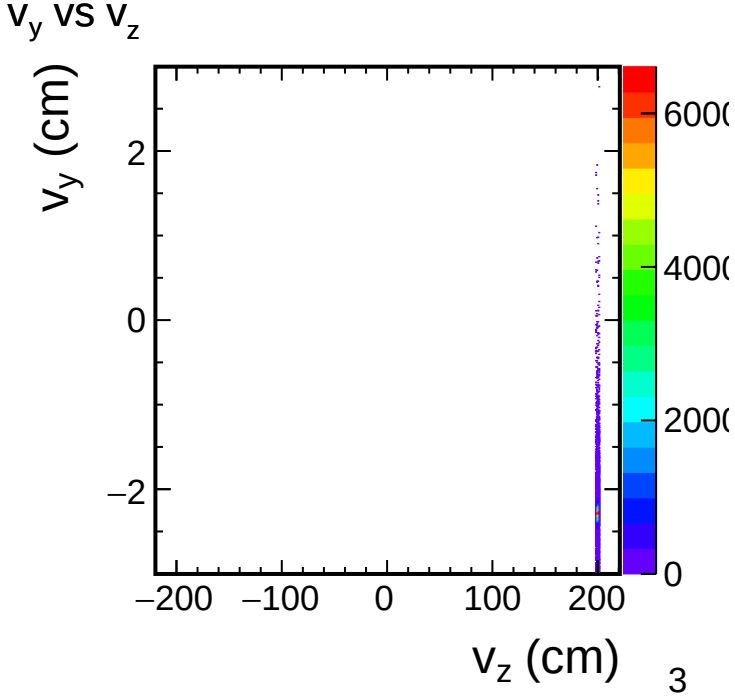
NOTE2: Cut on its own variable is currently disabled, e.x. no dca cut for dca histogram

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



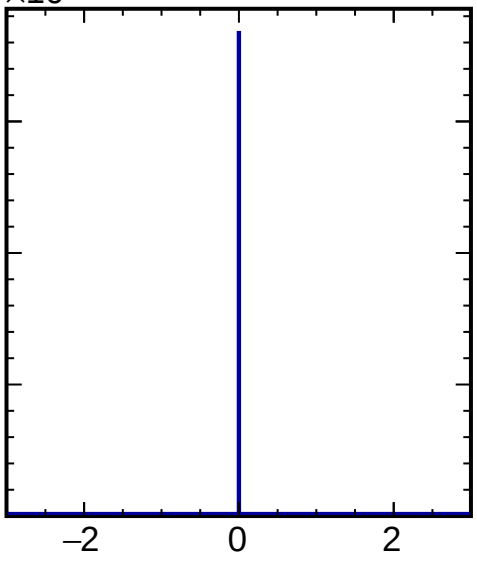






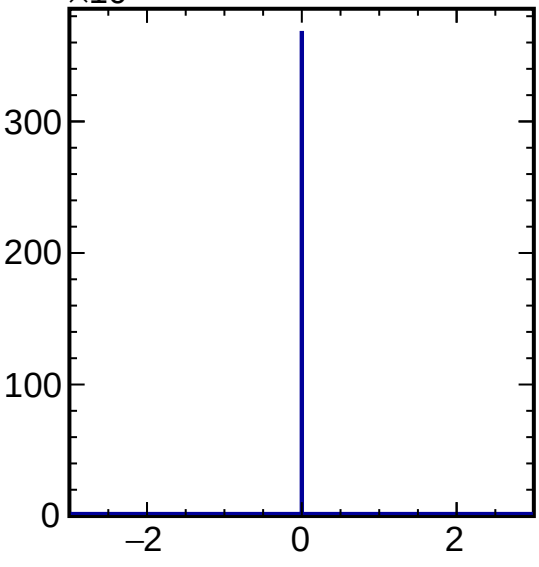
Event vertices, Δv = v(Data) - v(MC)

= v_x - v_x(MC)



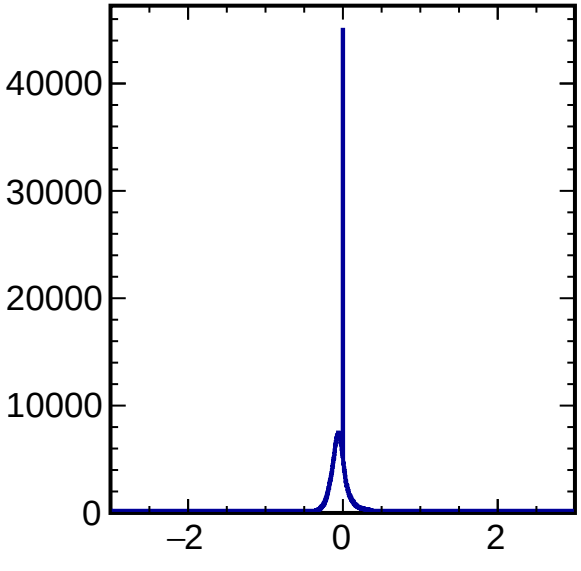
$\Delta v_x = v_x - v_x(MC)$ (cm)

= v_y - v_y(MC)



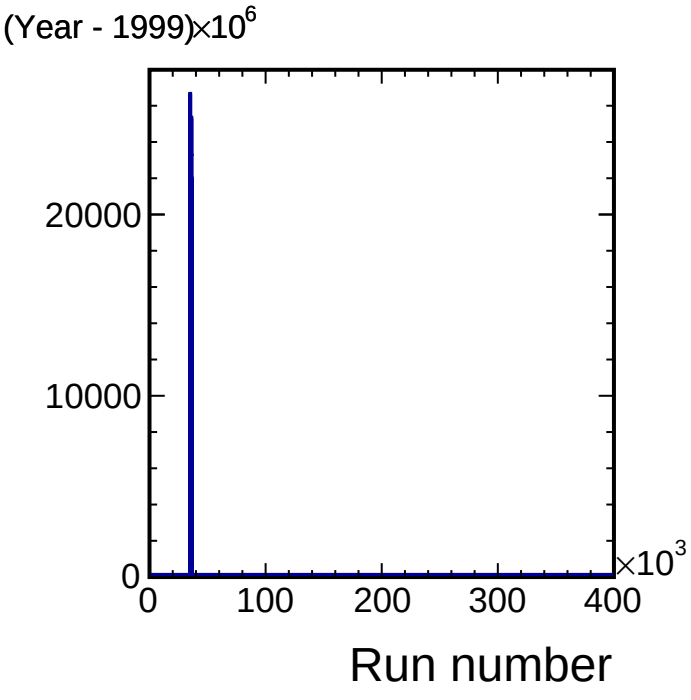
$\Delta v_y = v_y - v_y(MC)$ (cm)

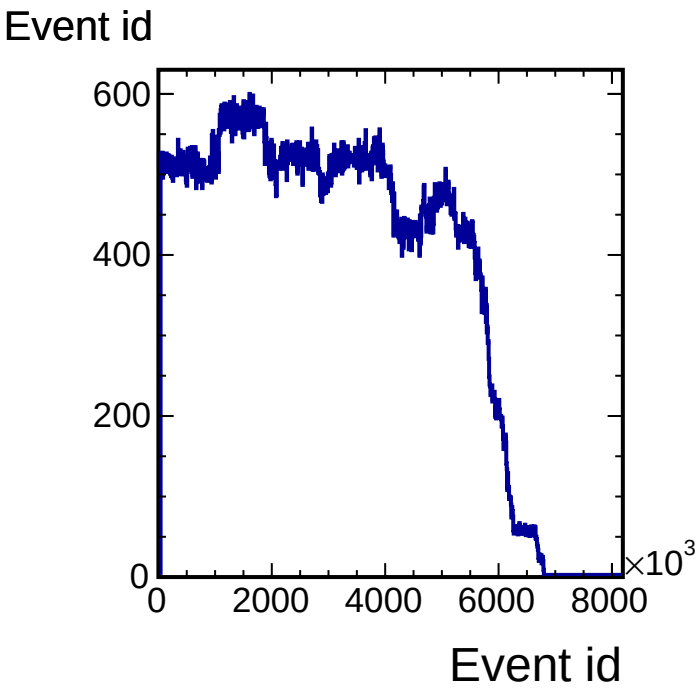
= v_z - v_z(MC)



$\Delta v_z = v_z - v_z(MC)$ (cm)

Run and event id





Run id	statistics
21035003	26652 events
21035004	17594 events
21035005	22319 events
21035006	6866 events
21035007	4158 events
21035009	8959 events

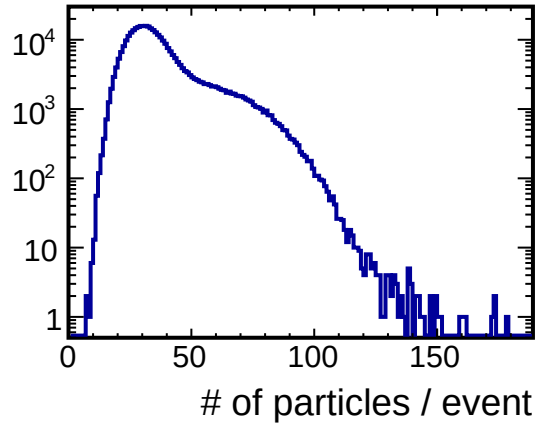
Run id	statistics
21035012	10140 events
21035013	16766 events
21035016	15206 events
21035017	8347 events
21035025	15010 events
21035026	18244 events

Run id	statistics
21035027	12964 events
21035028	8239 events
21035031	21266 events
21035032	15999 events
21035033	16938 events
21035036	15308 events

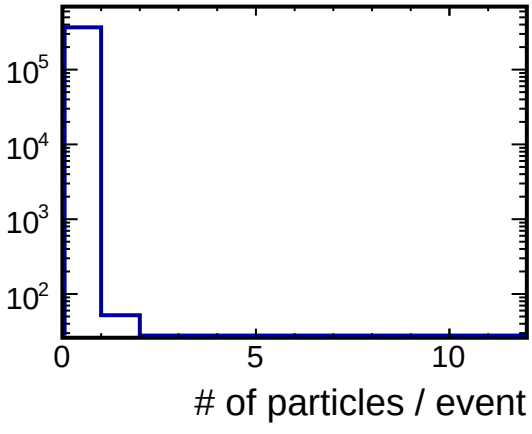
Run id	statistics
21036002	2789 events
21036003	2746 events
21036006	25335 events
21036007	23233 events
21036008	14106 events
21036009	21986 events
21036013	16136 events

Multiplicity distribution

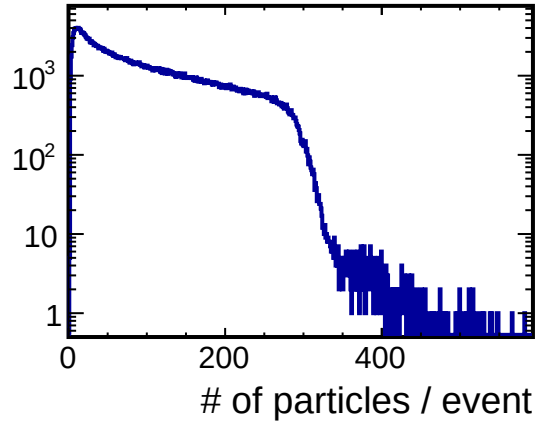
MC tracks



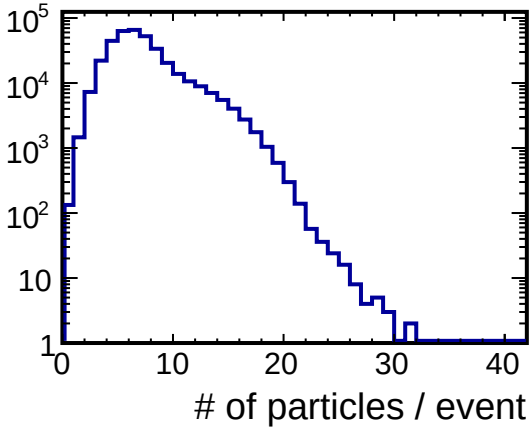
Matched pairs



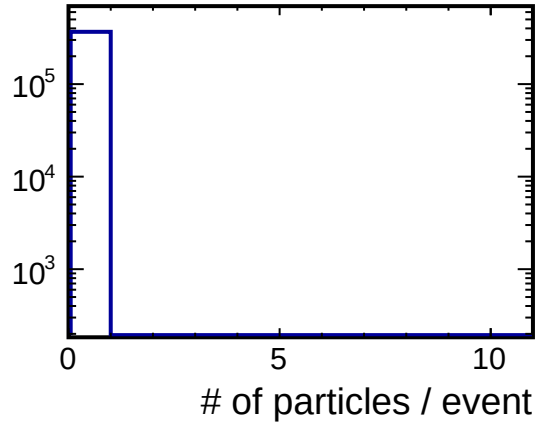
Ghost pairs



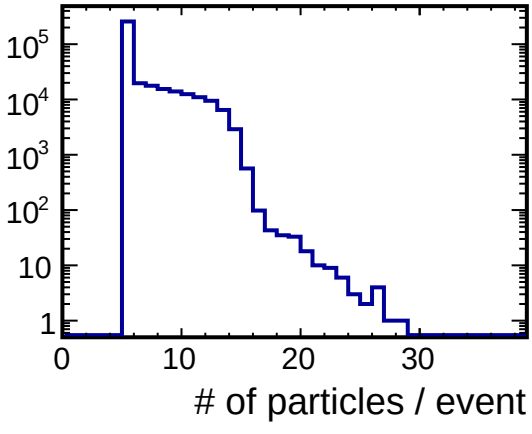
ıtaminated pairs



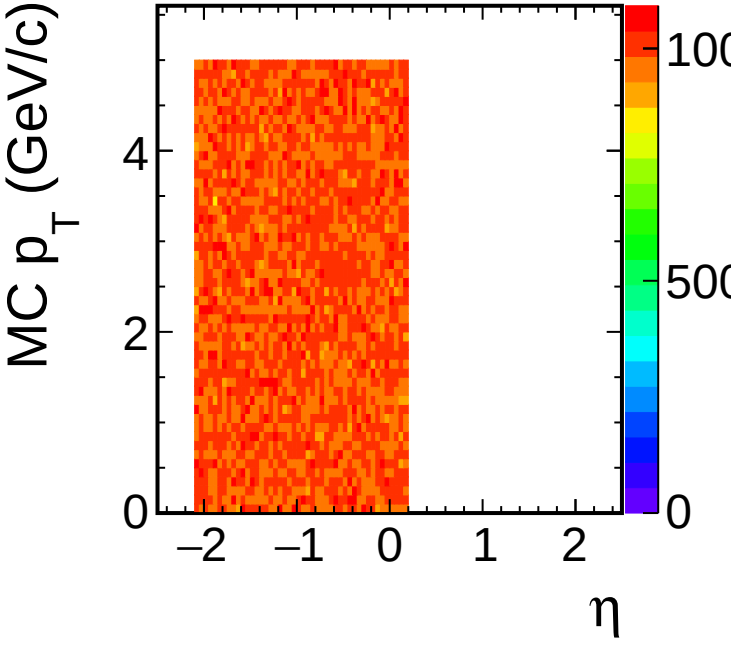
ːhed global pairs

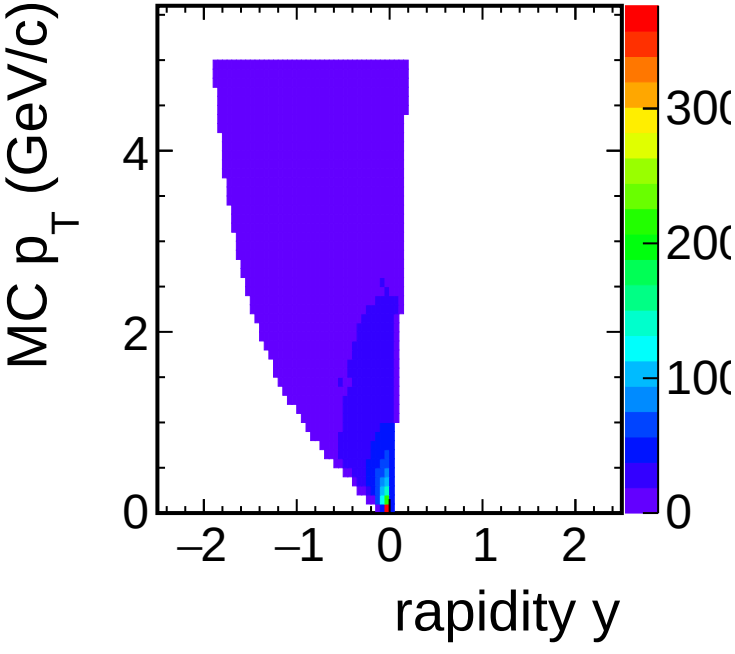


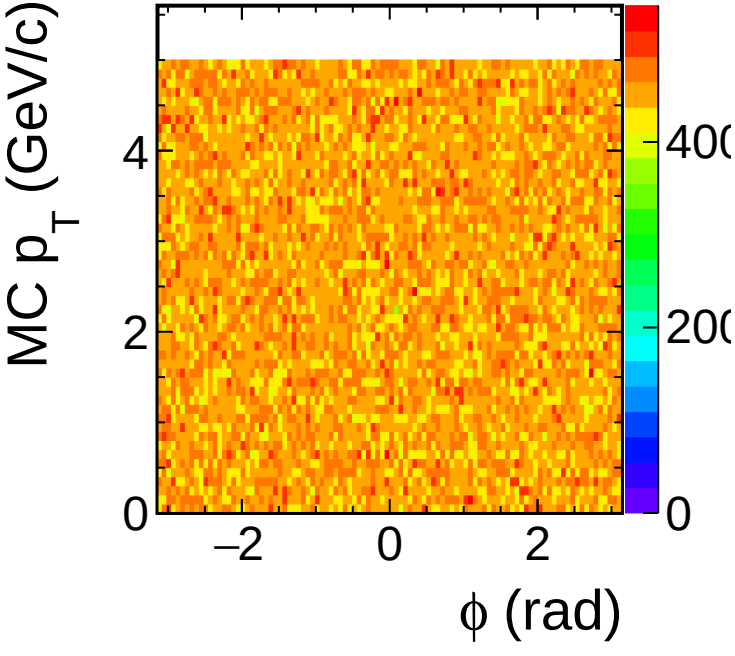
ɪnary MC tracks



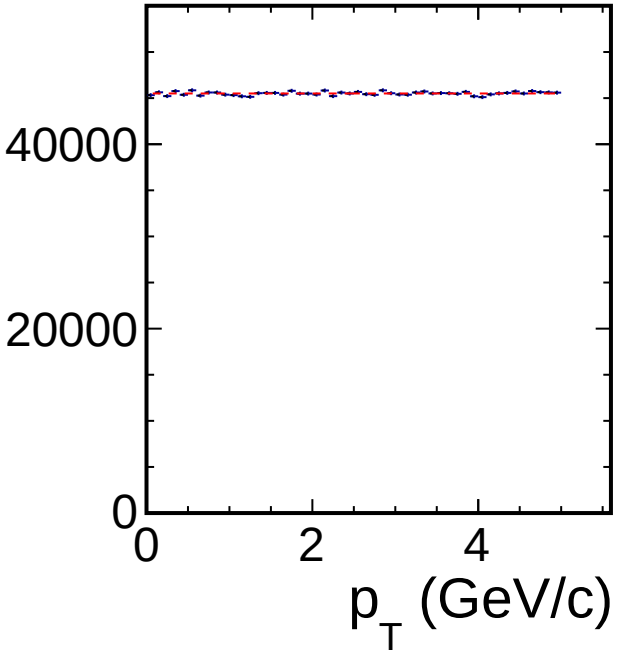
MC track QA (2D)

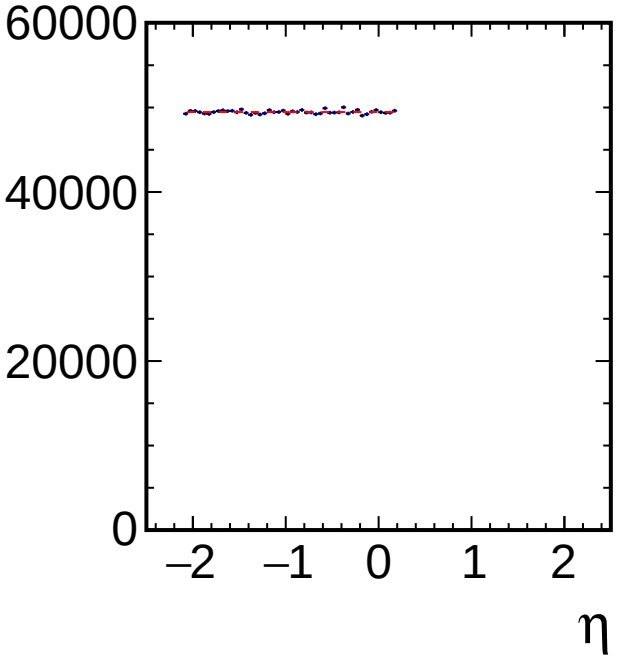


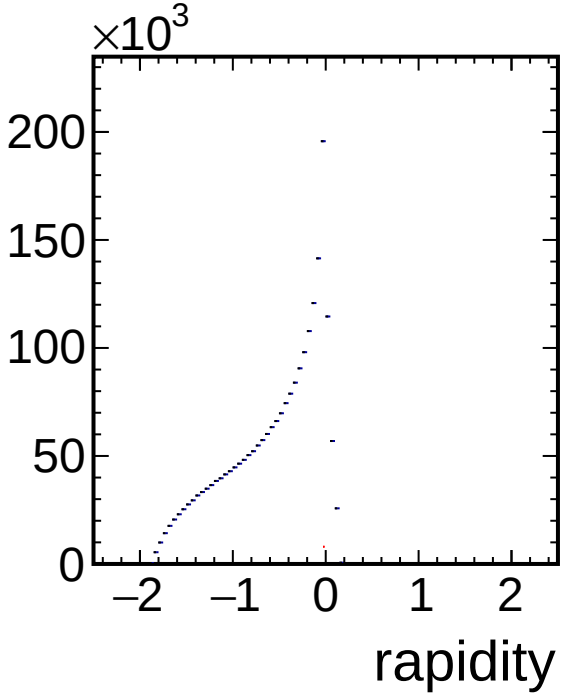


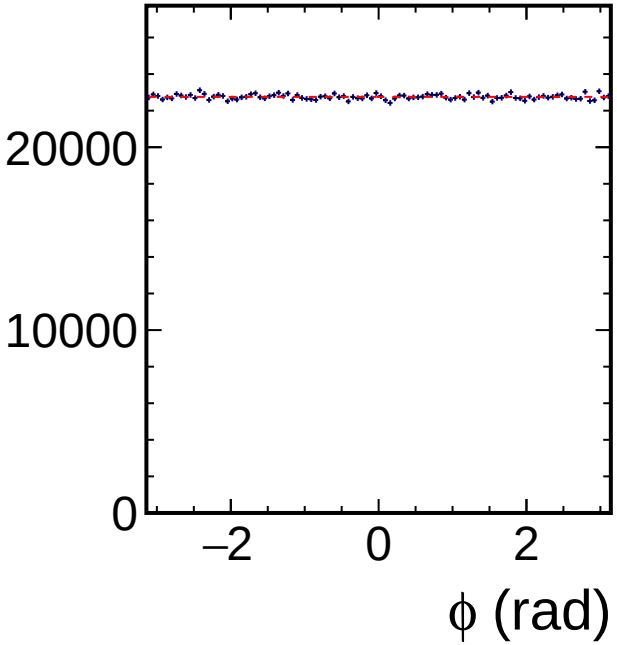


MC track QA (1D)



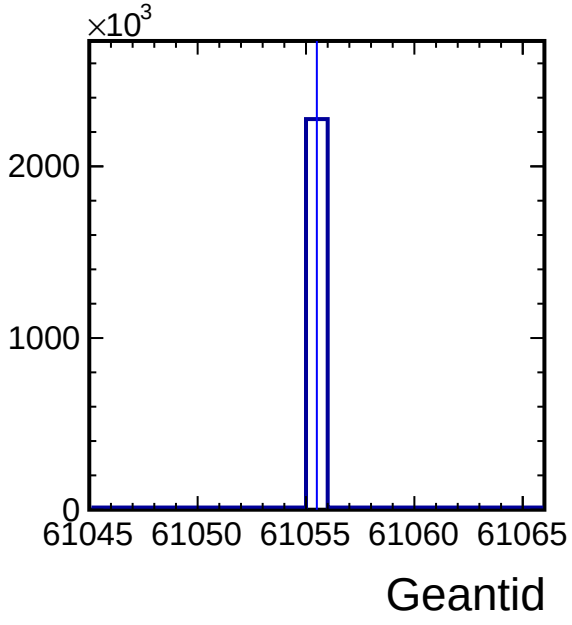




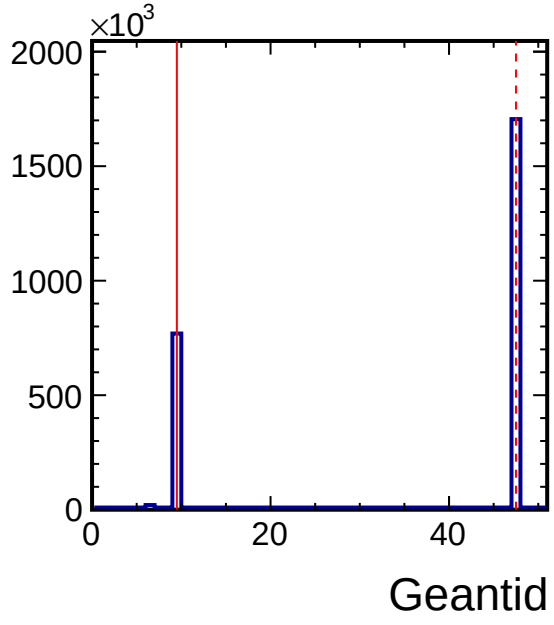


Geant id

ıt id for H4Lambda



tructed geant id



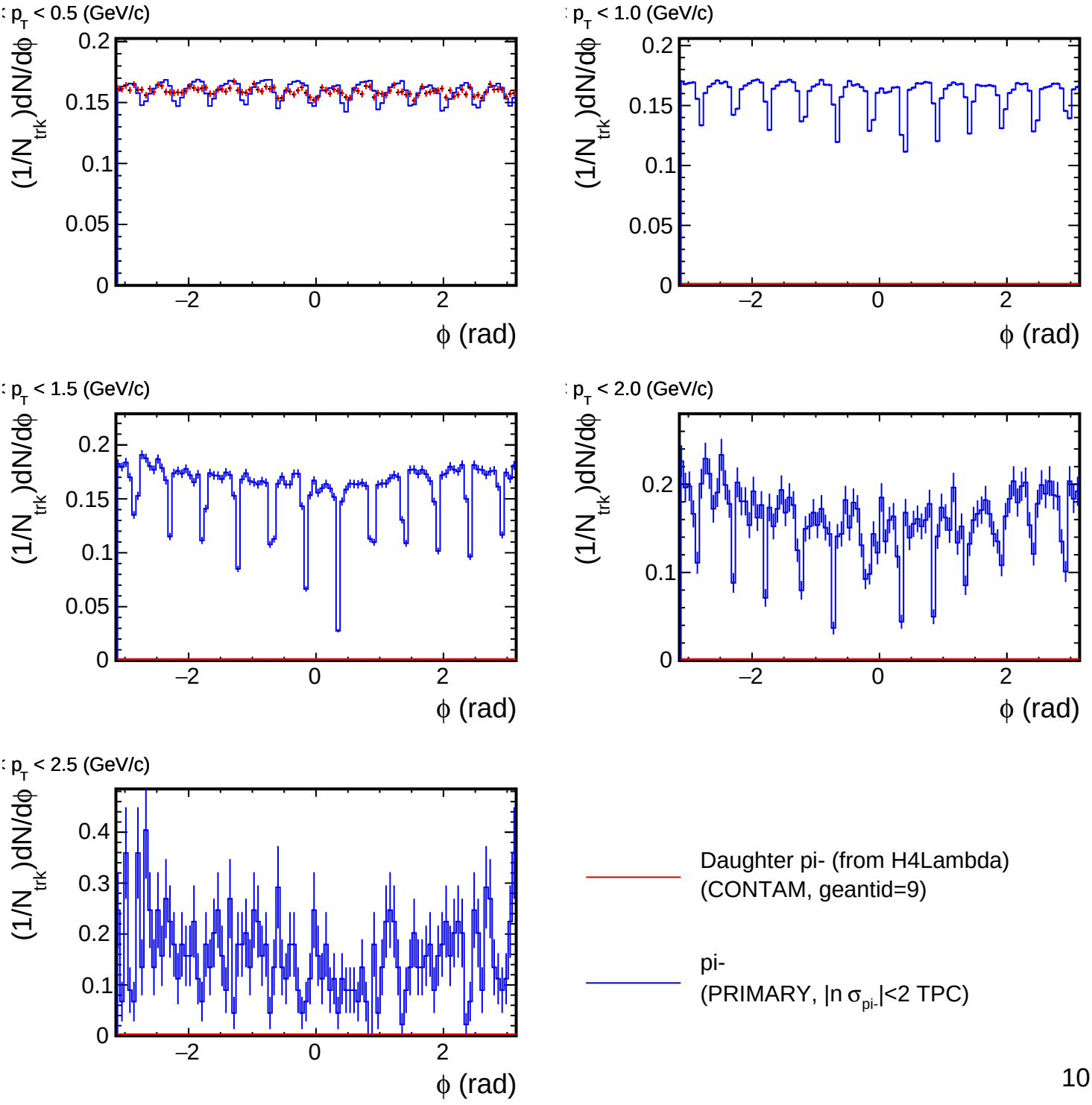
Particle informations

Parent H4Lambda (MC, geantid=61055)

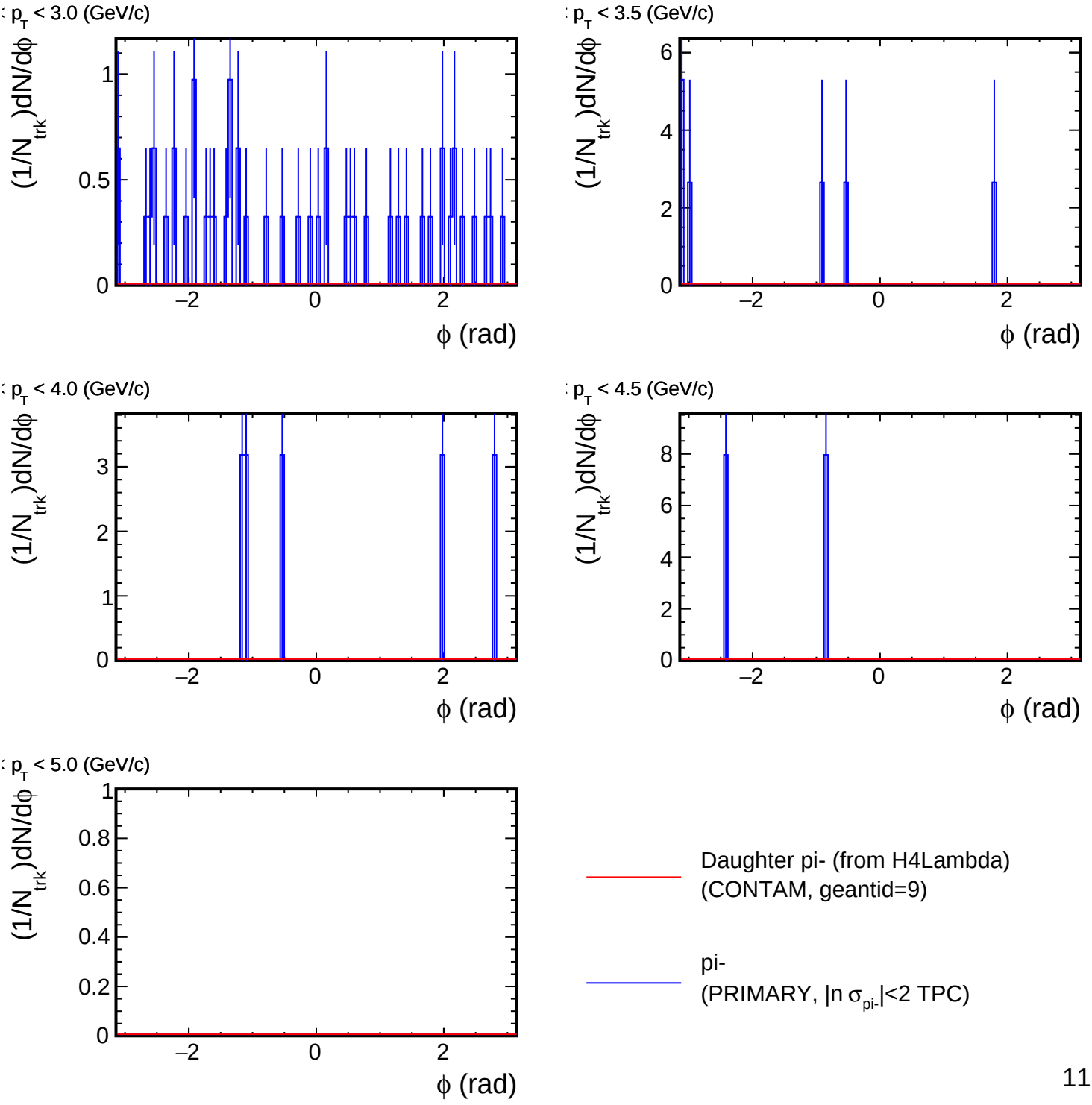
Daughter pi- (from H4Lambda) (CONTAM, geantid=9)

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

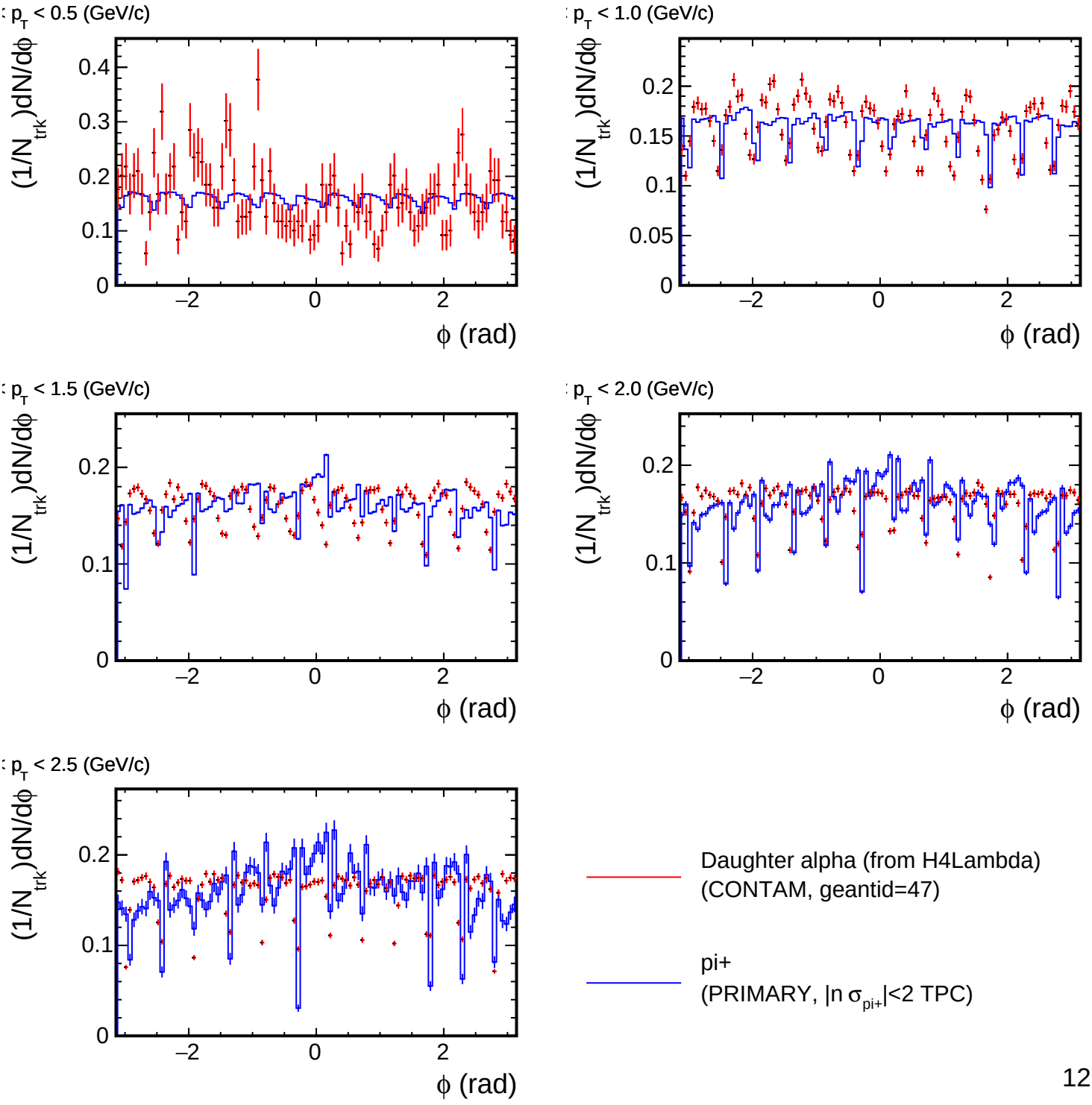
Projection of ϕ for each p_T bin



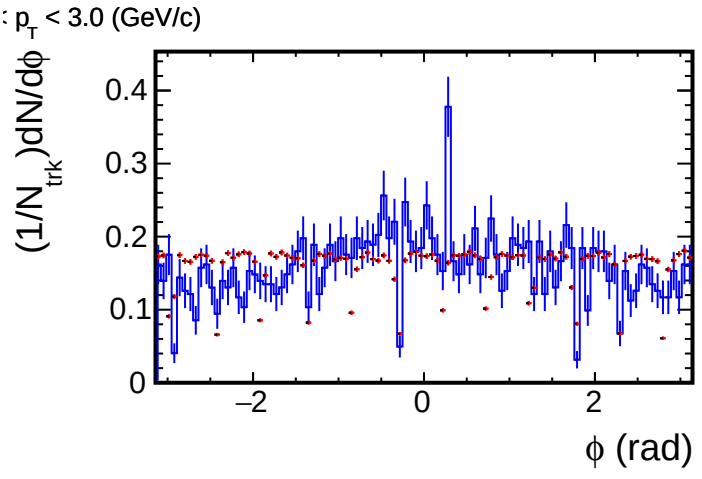
Projection of ϕ for each p_T bin

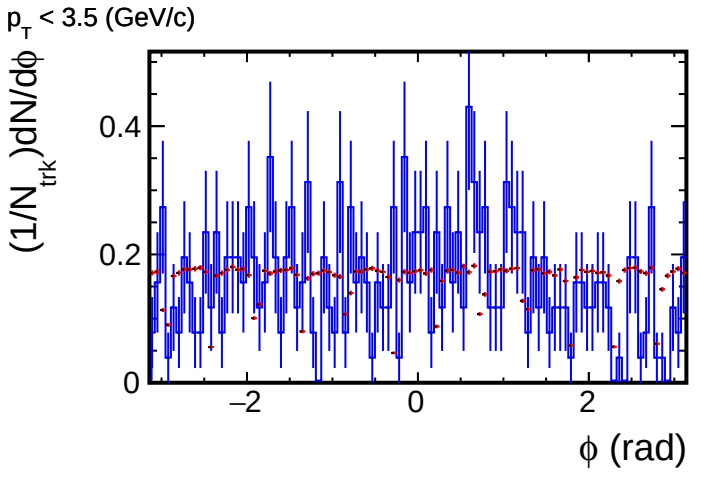


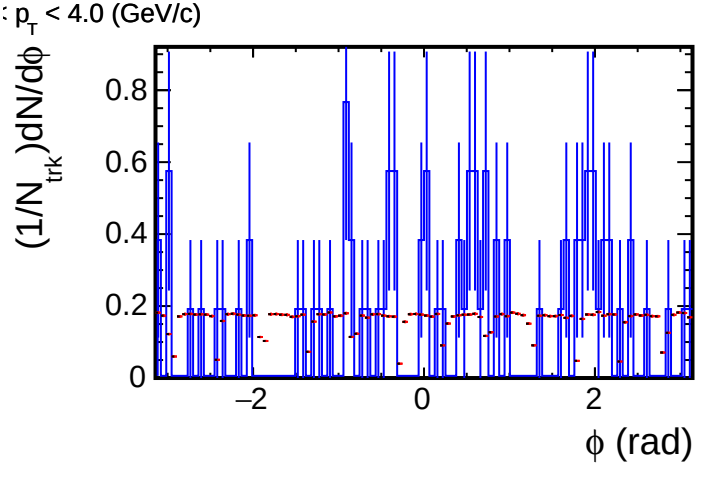
Projection of ϕ for each p_T bin

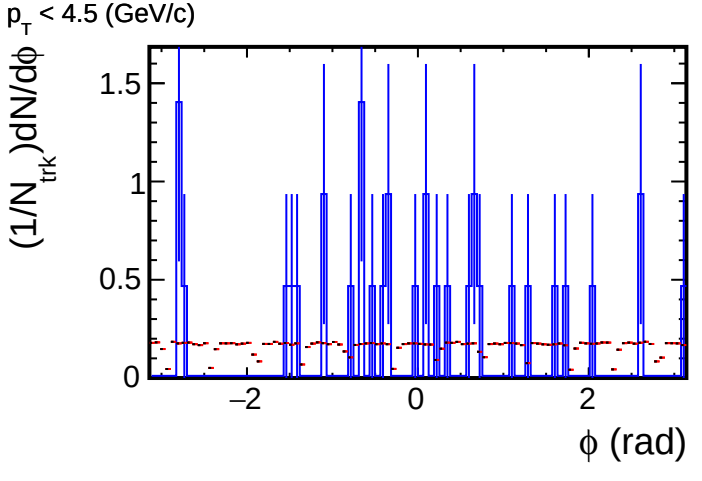


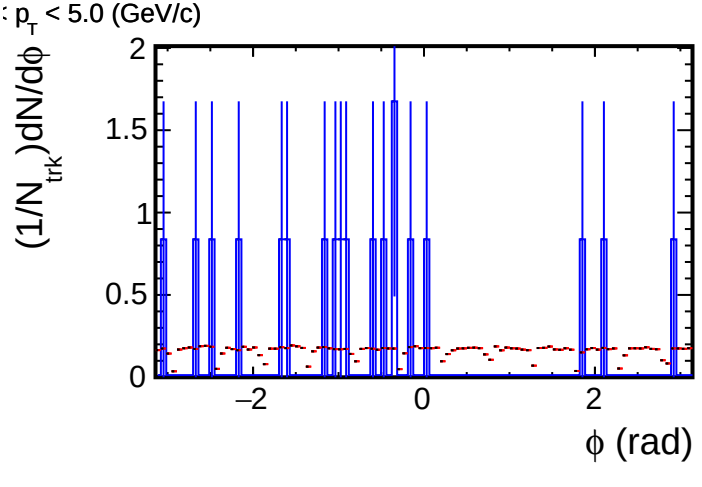
Projection of ϕ for each p_T bin







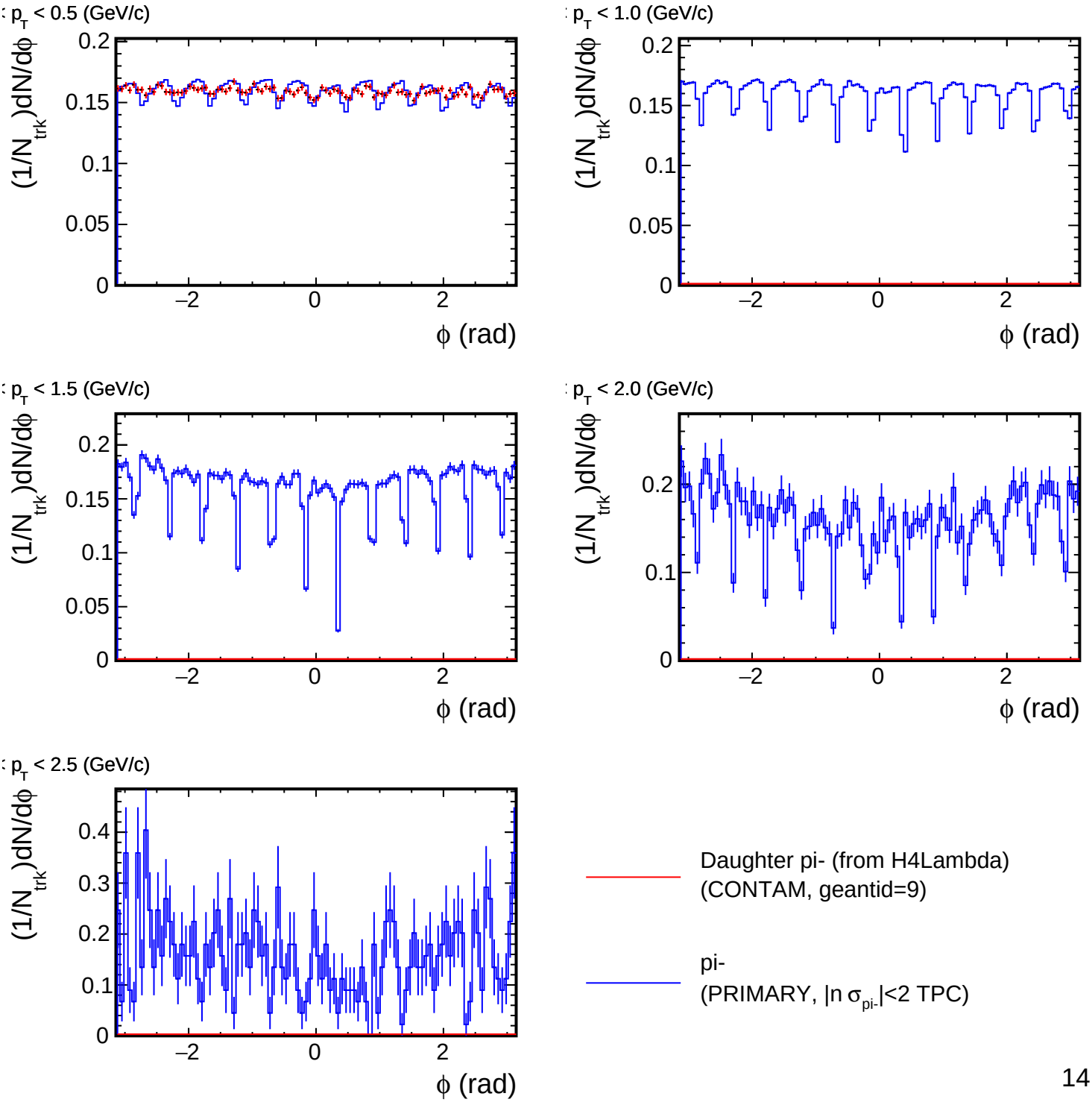




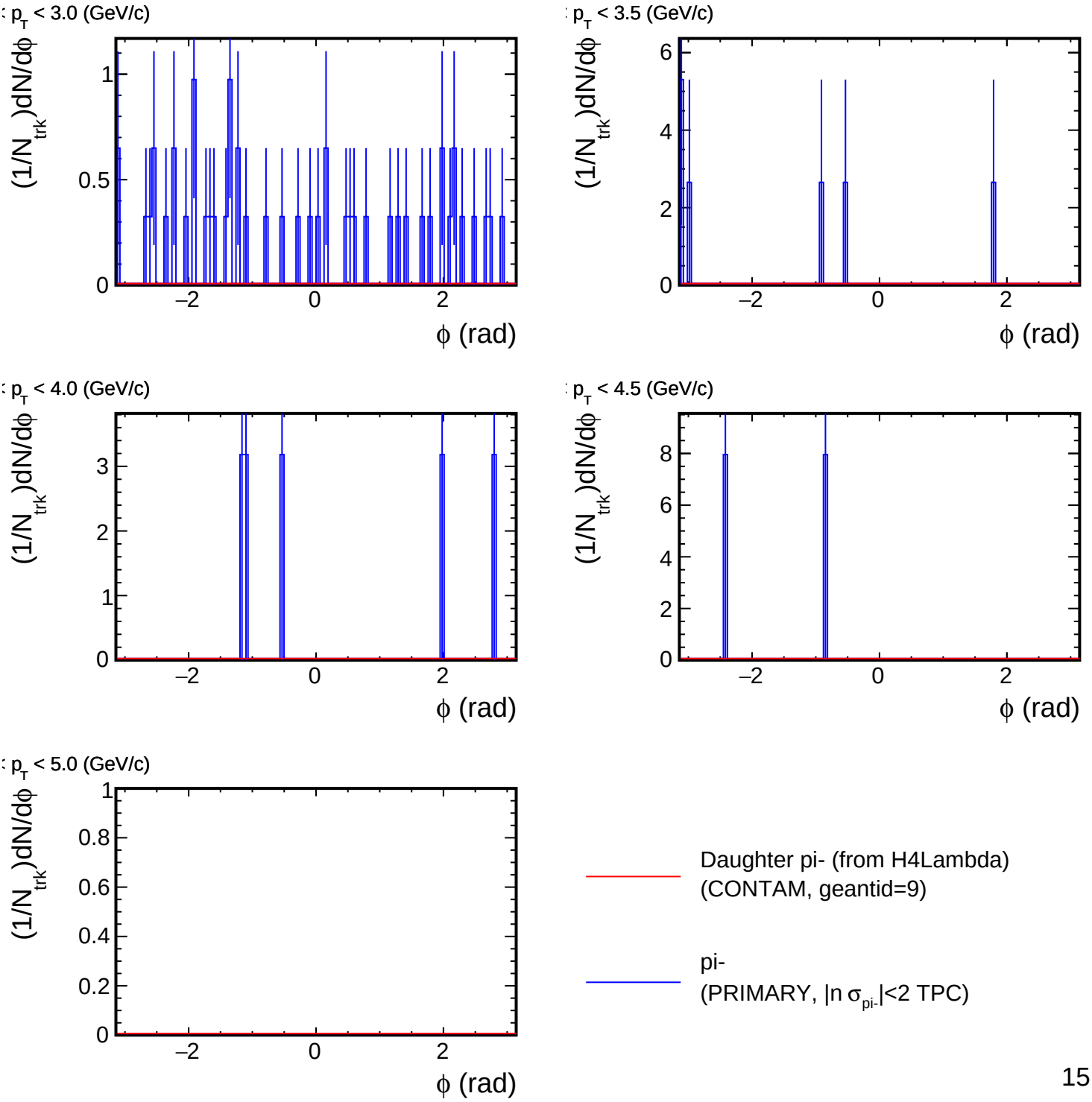
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

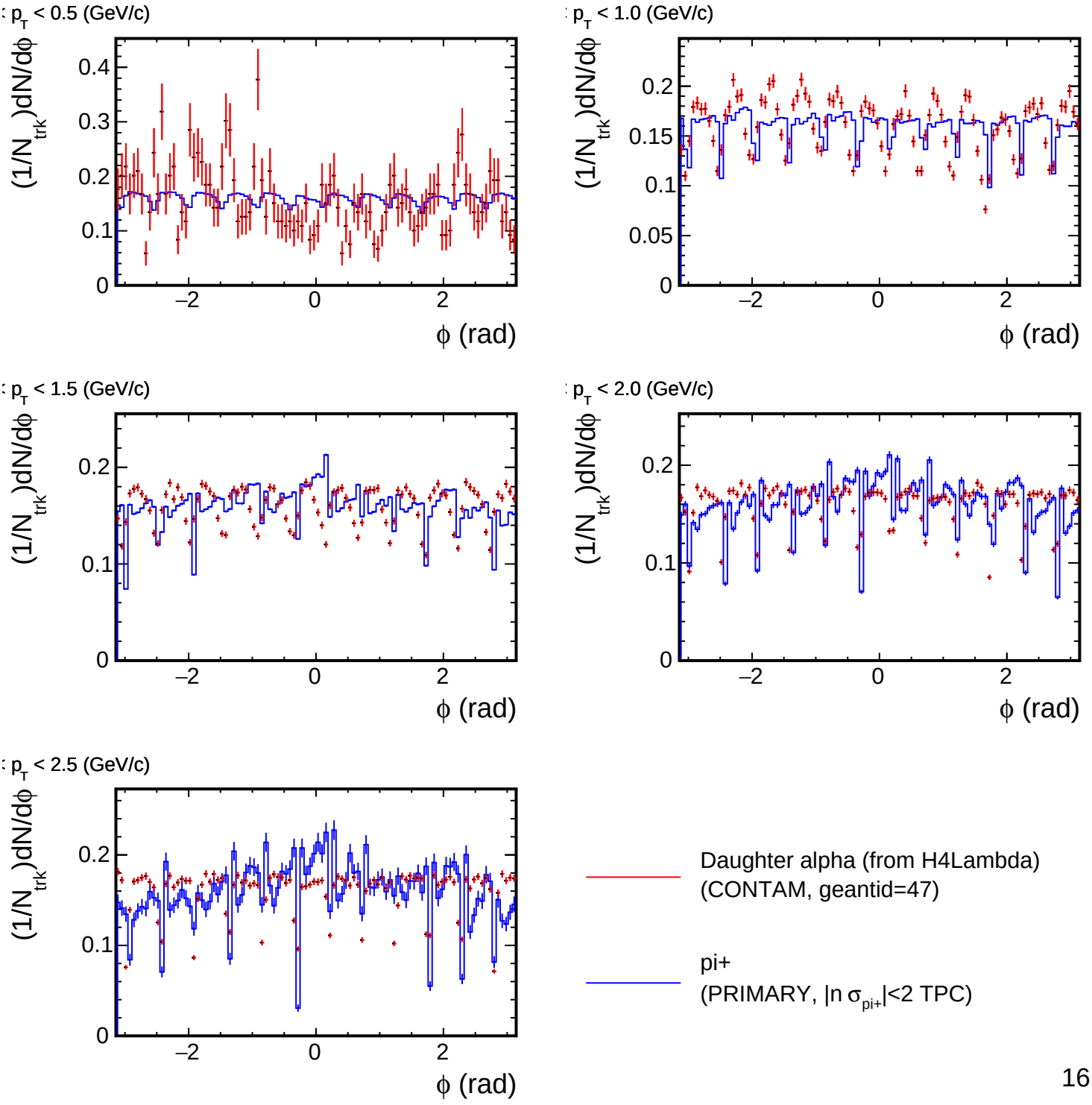
Projection of ϕ for each p_T bin



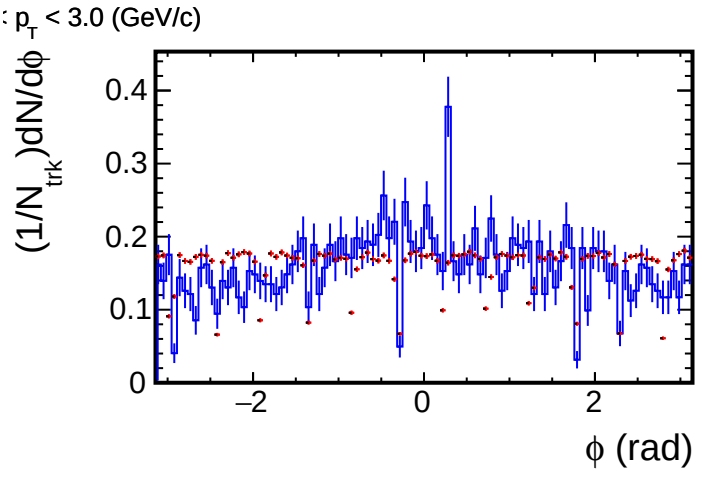
Projection of ϕ for each p_T bin

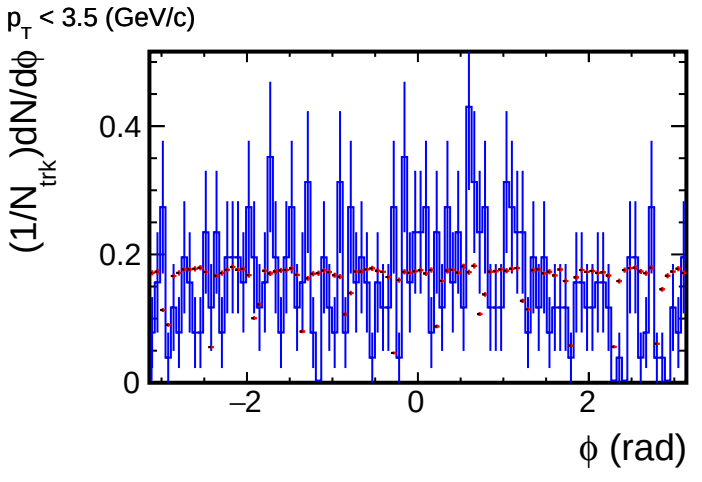


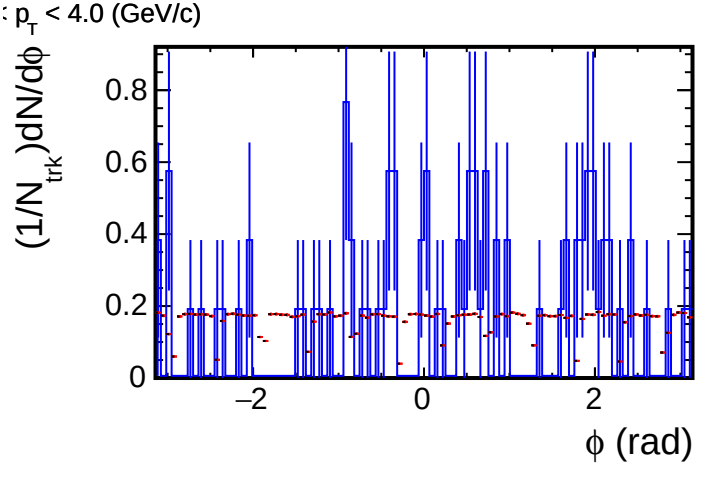
Projection of ϕ for each p_T bin

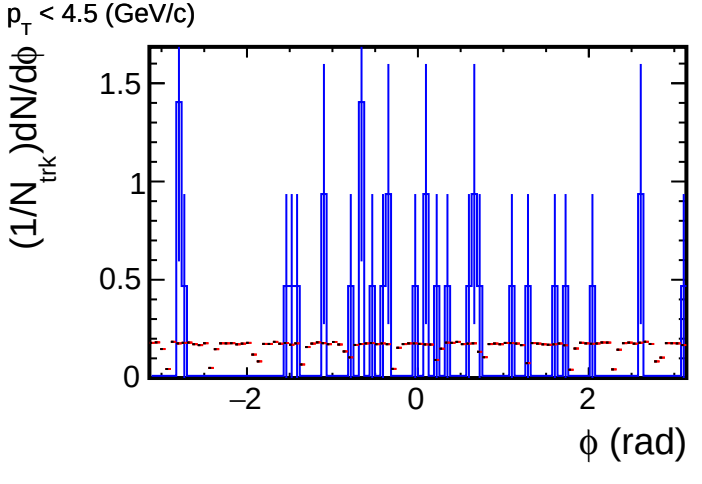


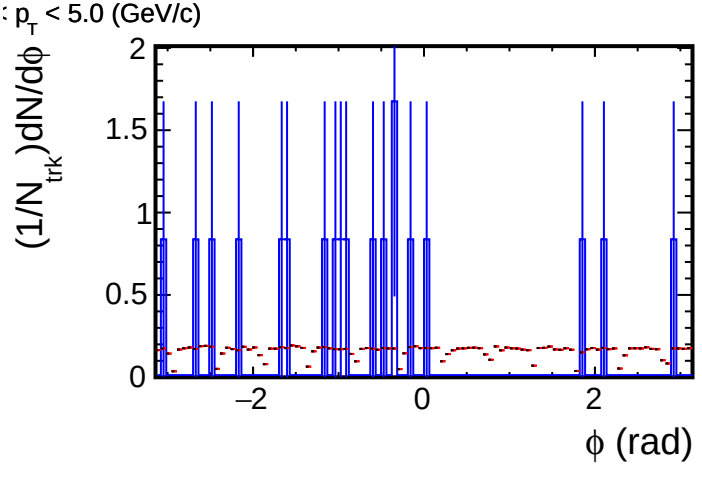
Projection of ϕ for each p_T bin







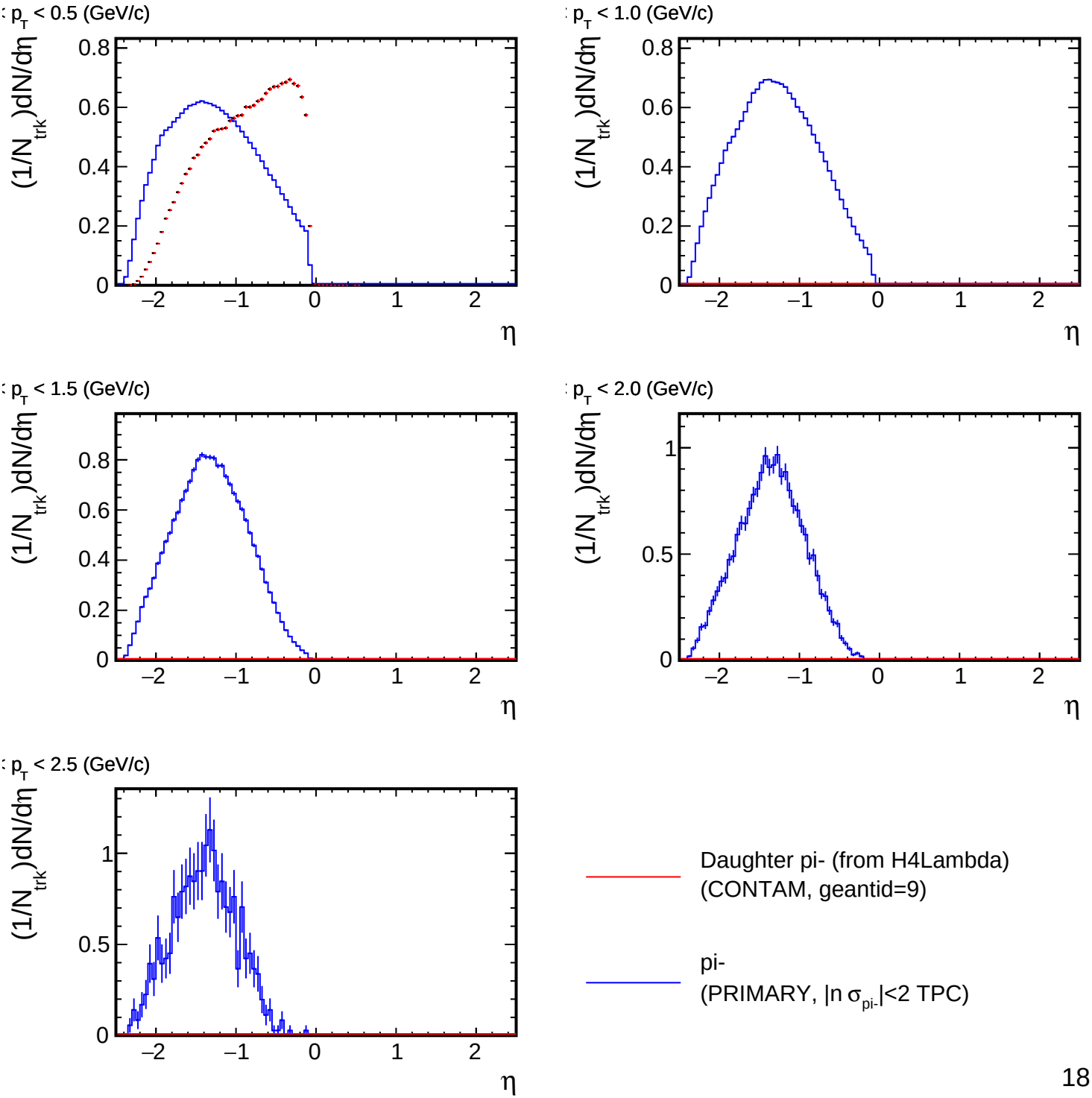




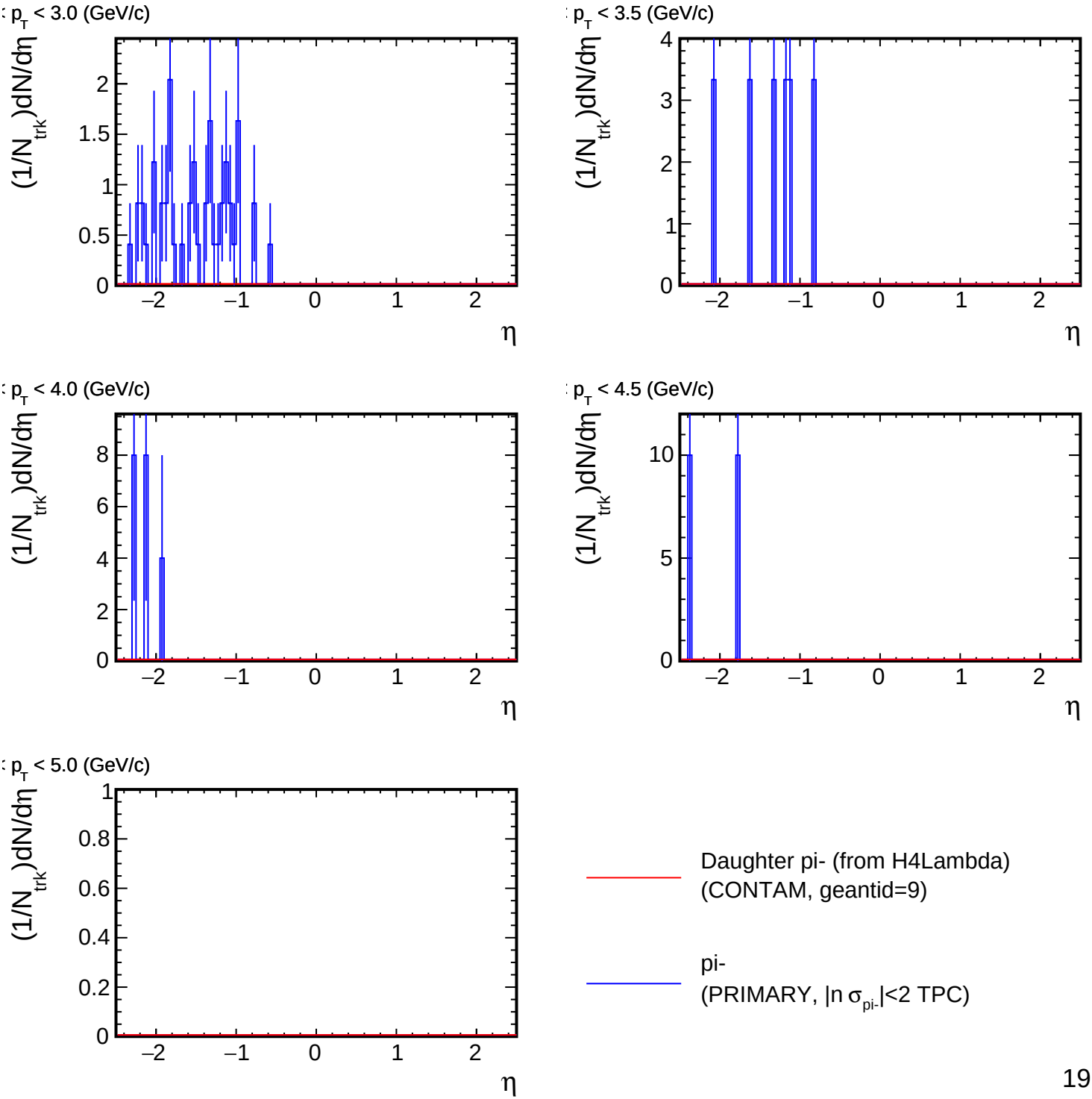
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

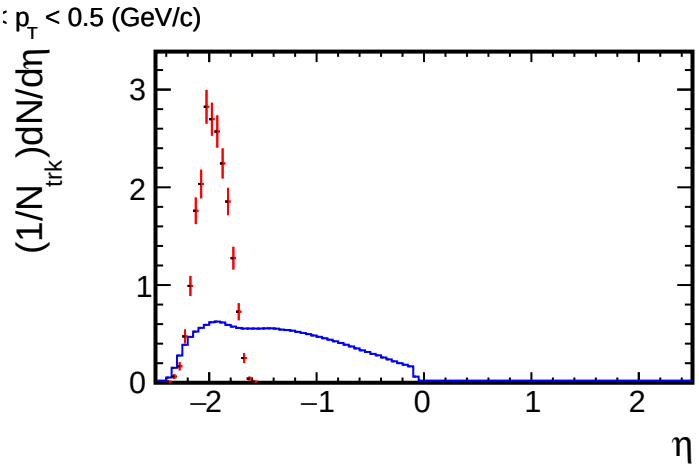
Projection of η for each p_T bin

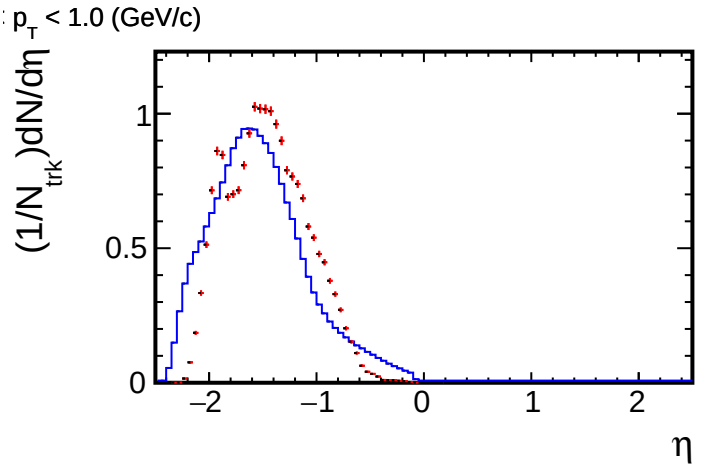


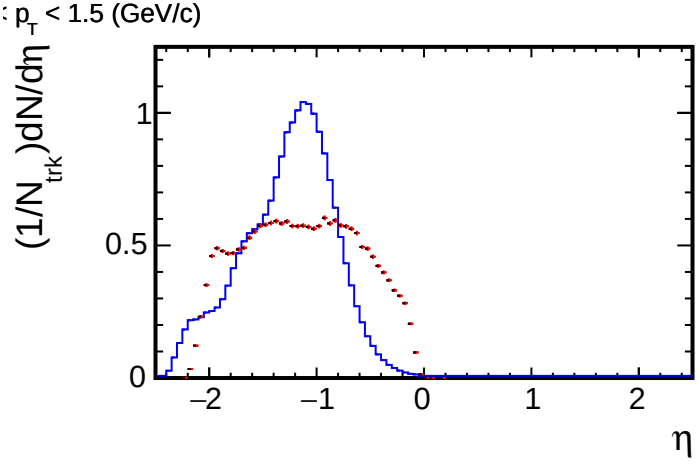
Projection of η for each p_T bin

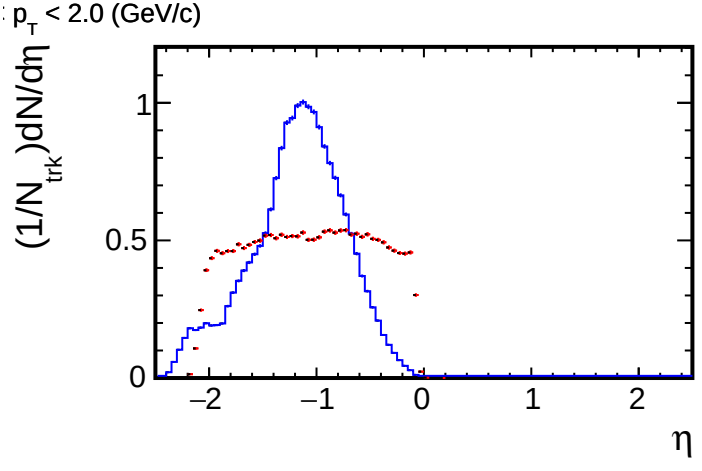


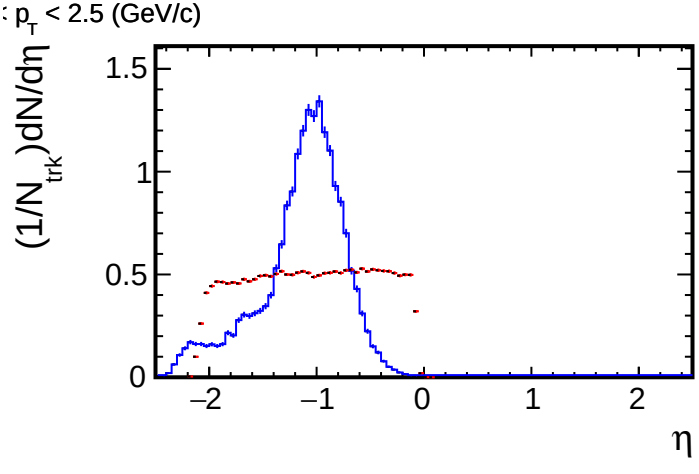
Projection of η for each p_T bin







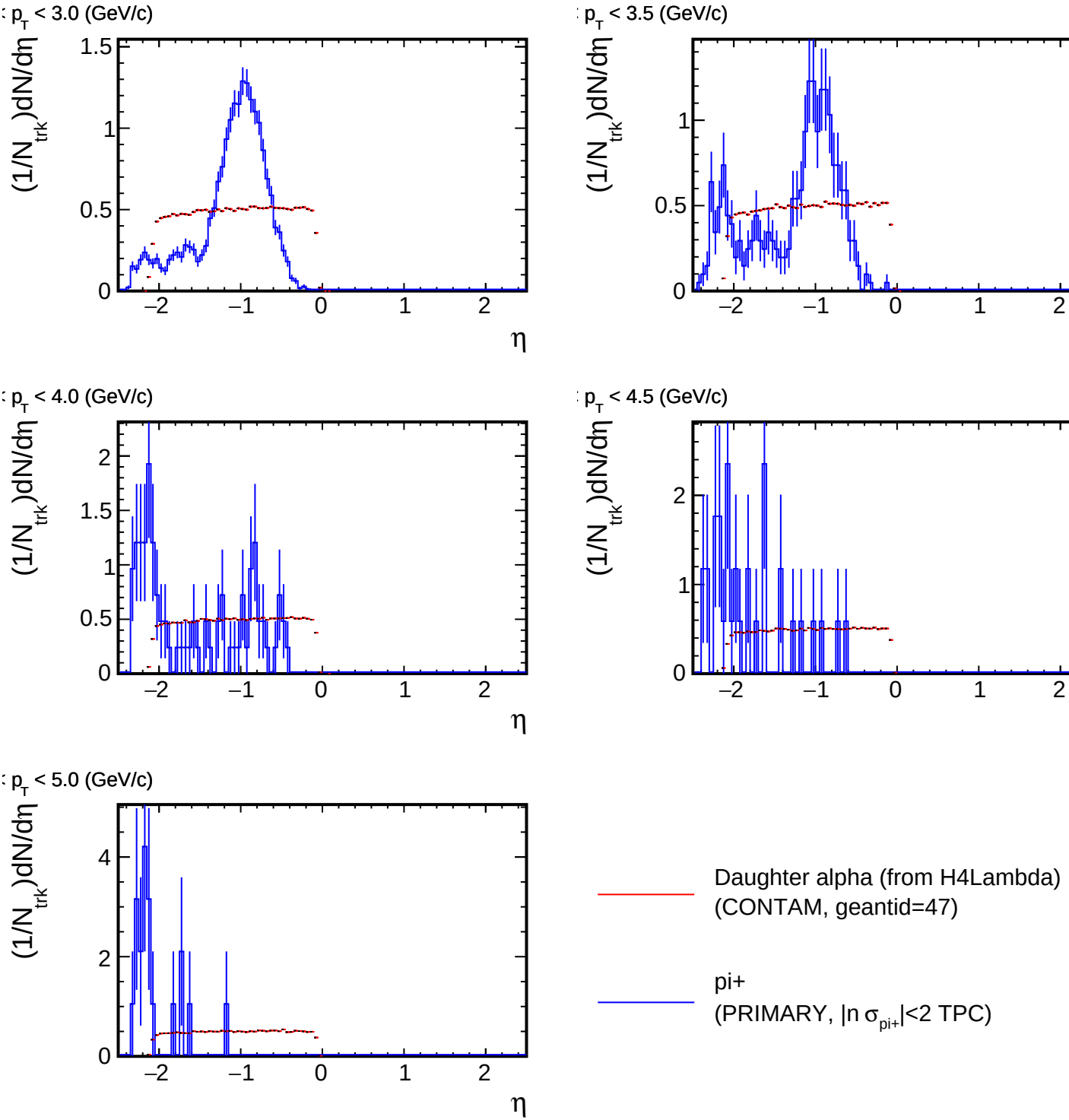




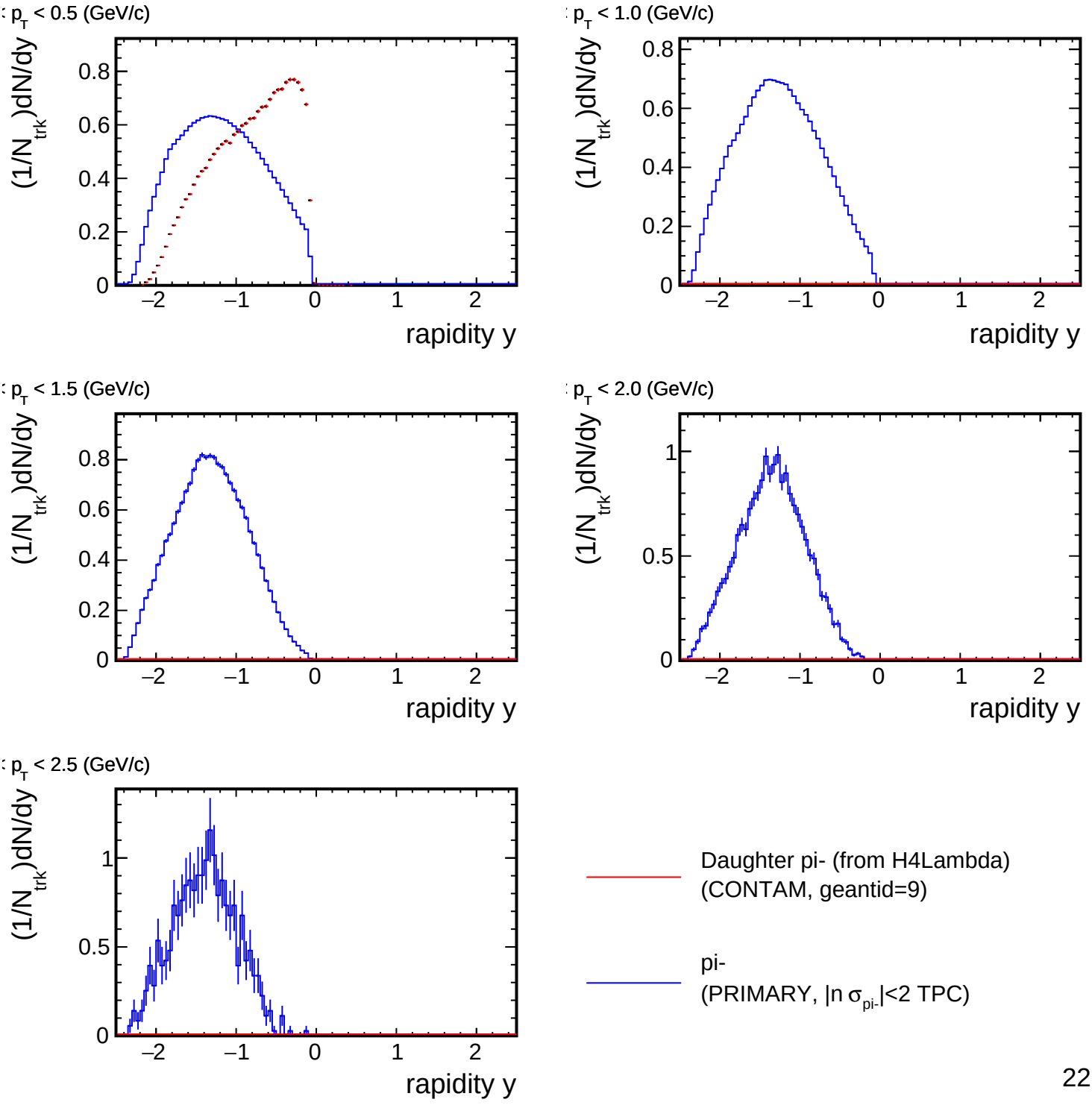
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

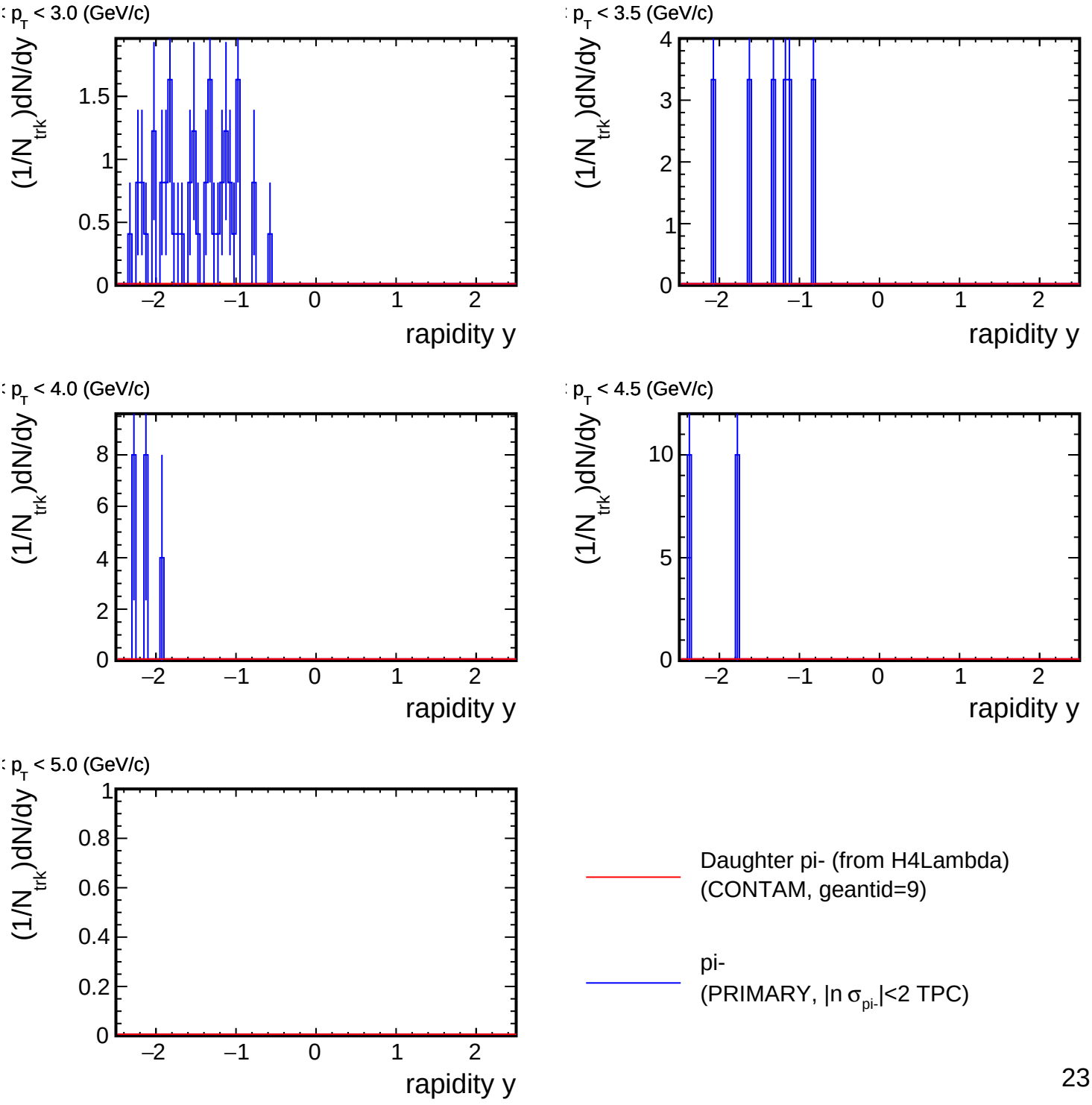
Projection of η for each p_T bin



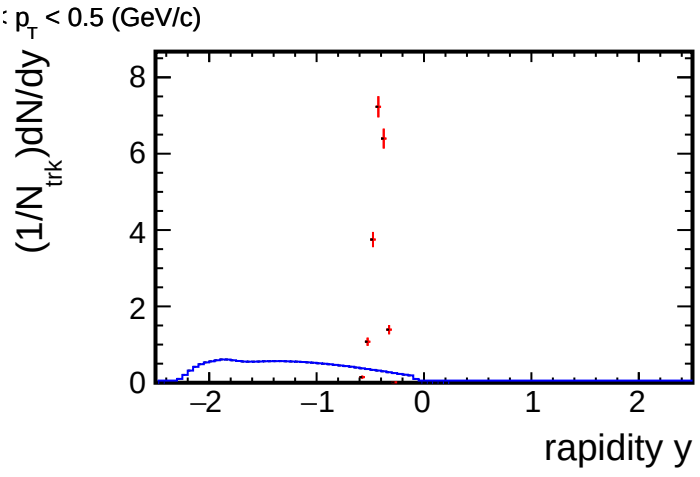
Projection of y for each p_T bin

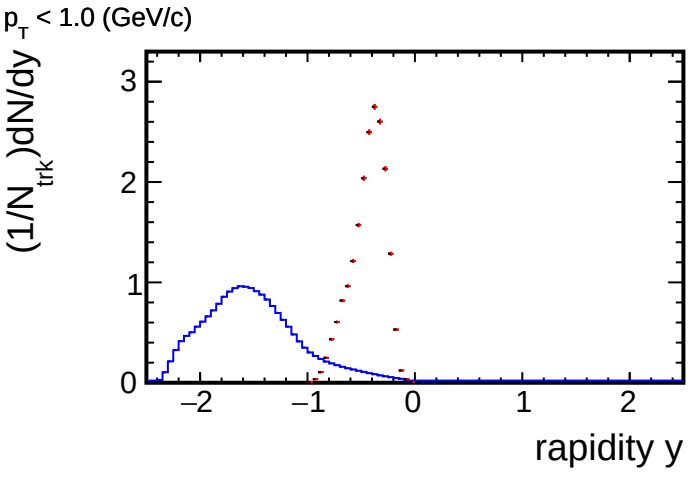


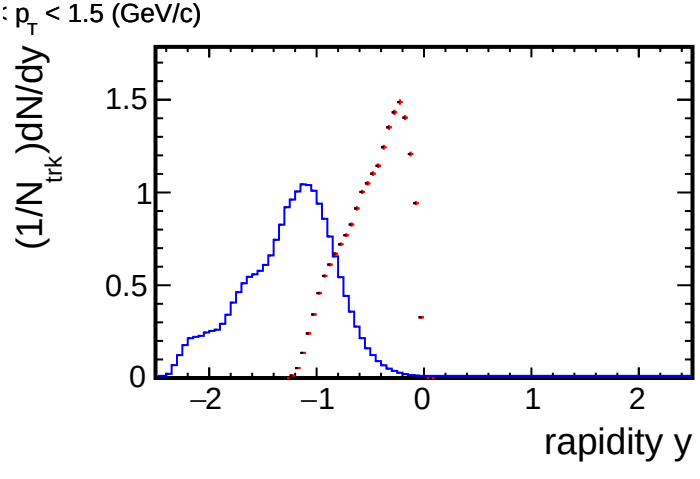
Projection of y for each p_T bin

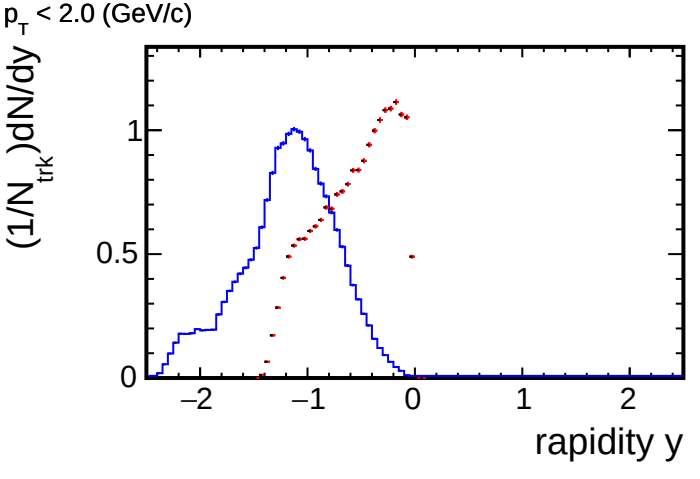


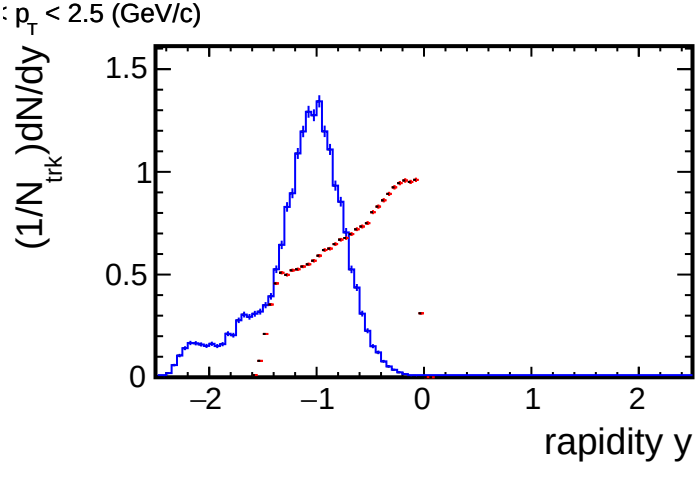
Projection of y for each p_T bin







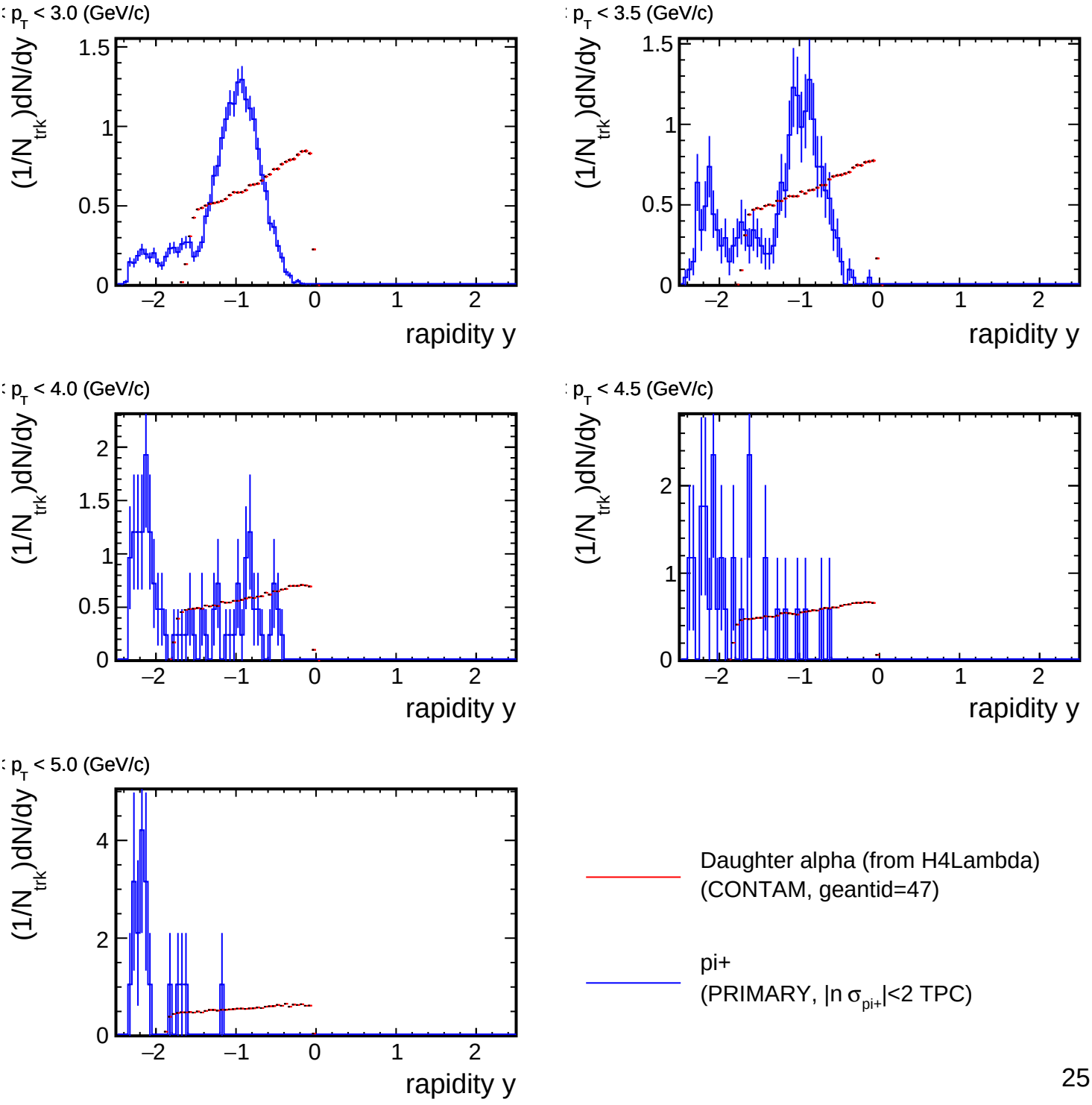




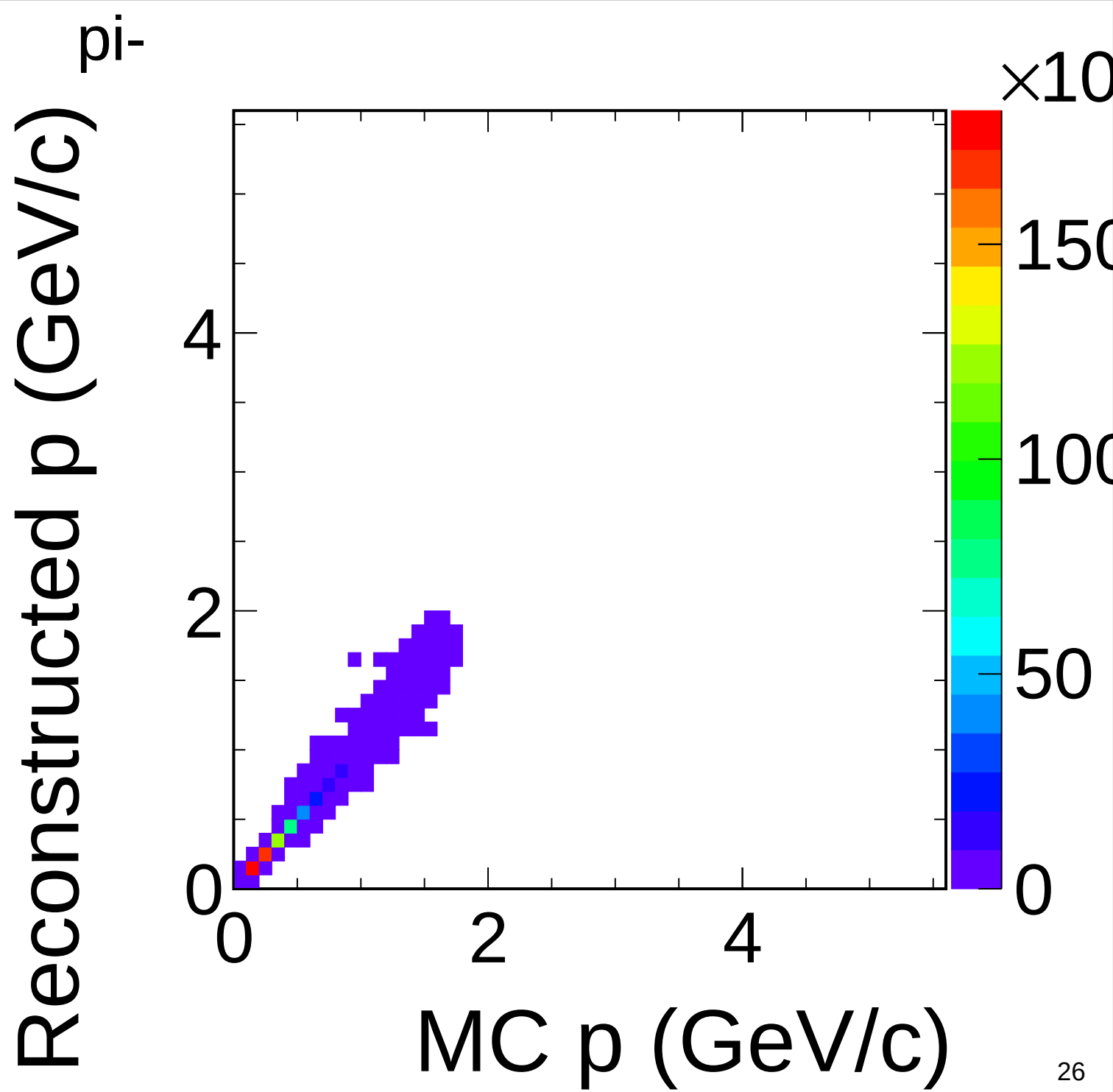
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

Projection of y for each p_T bin

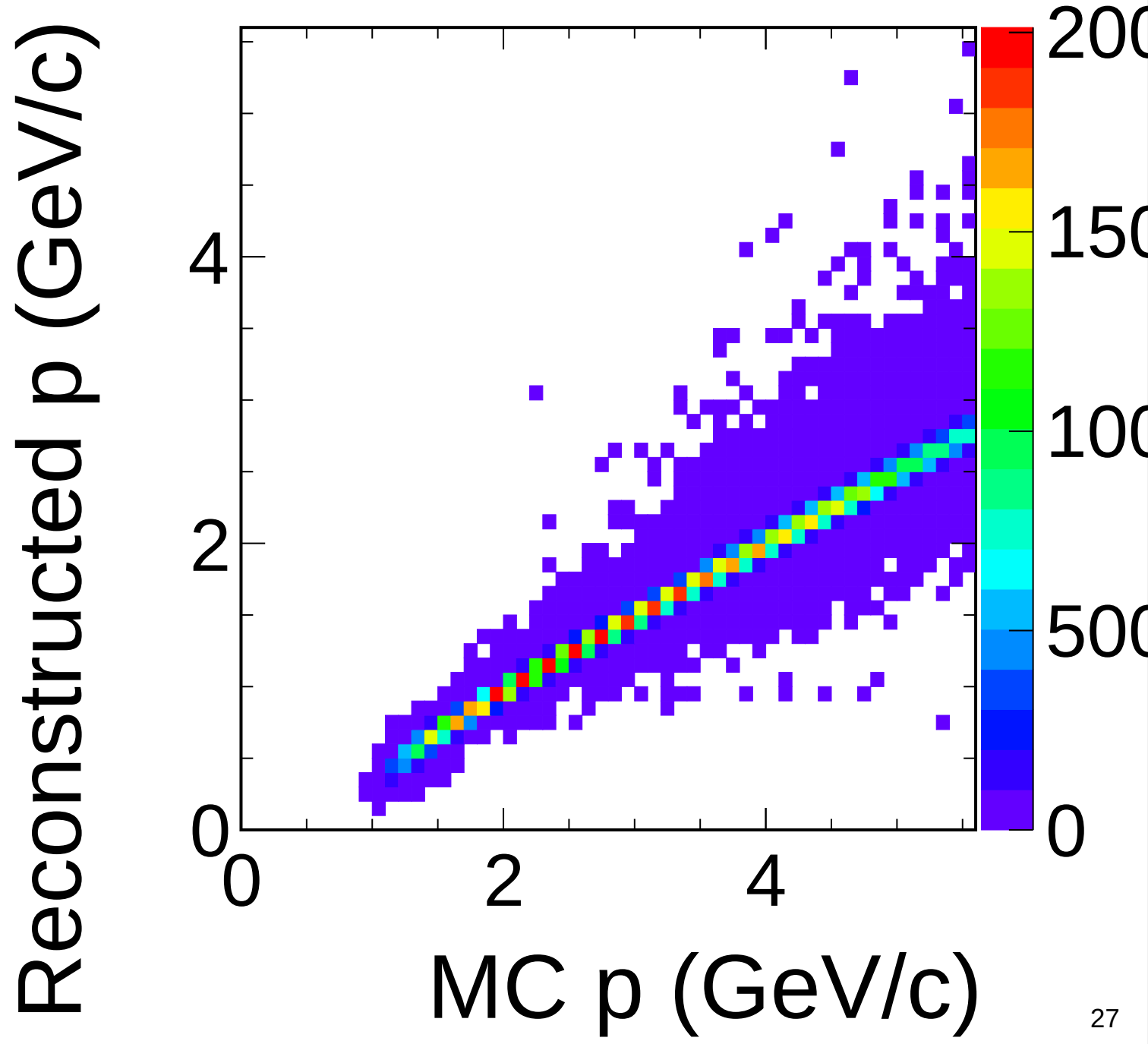


Reconstructed momentum vs MC momentum

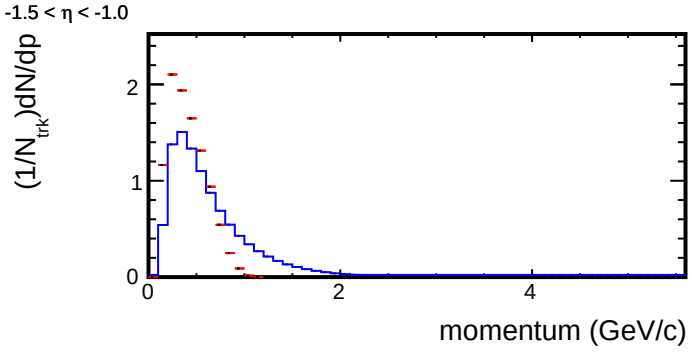


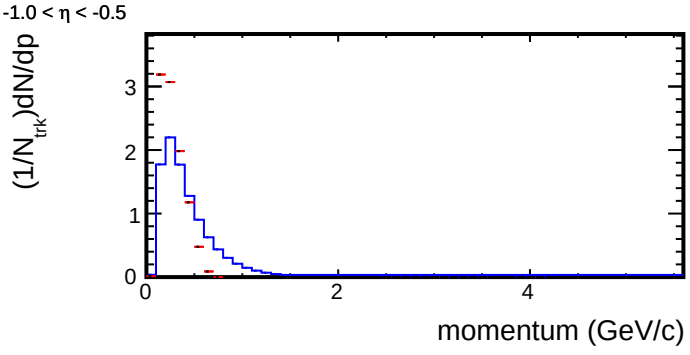
Reconstructed momentum vs MC momentum

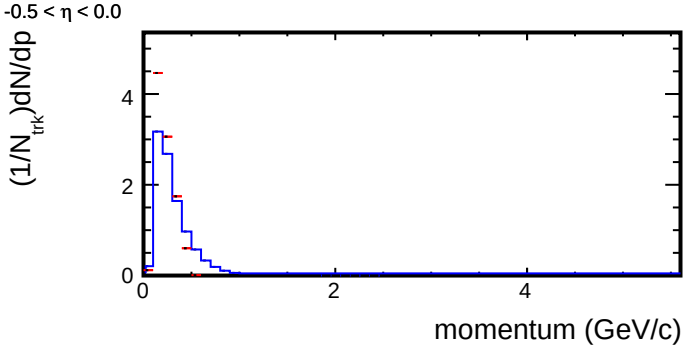
alpha

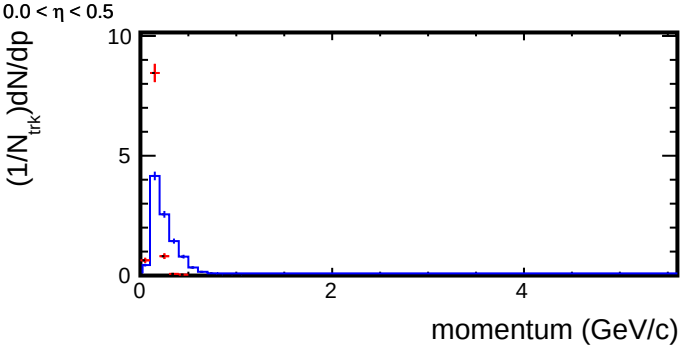


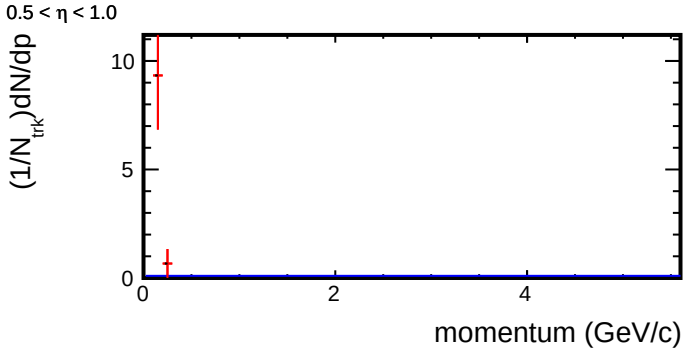
Projection of p for each η bin

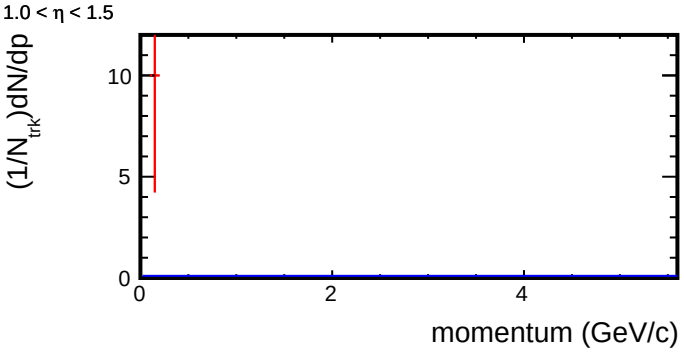








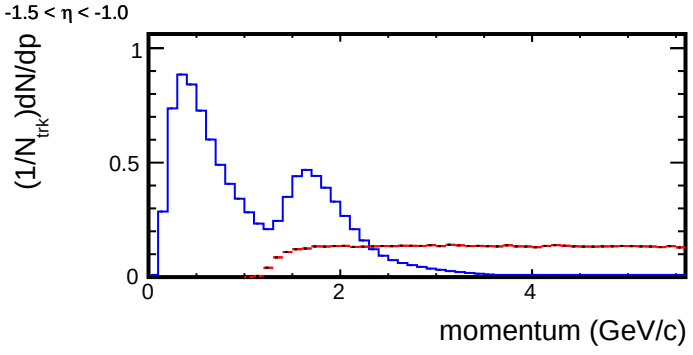


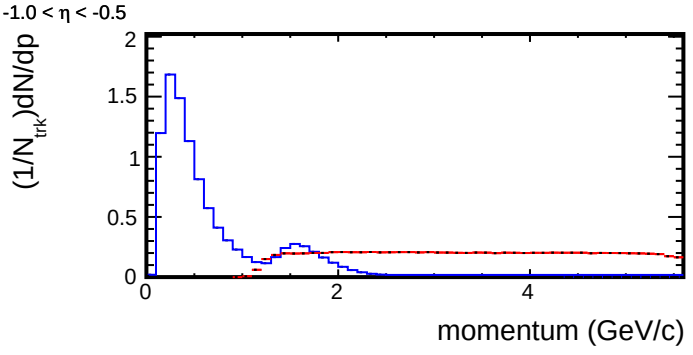


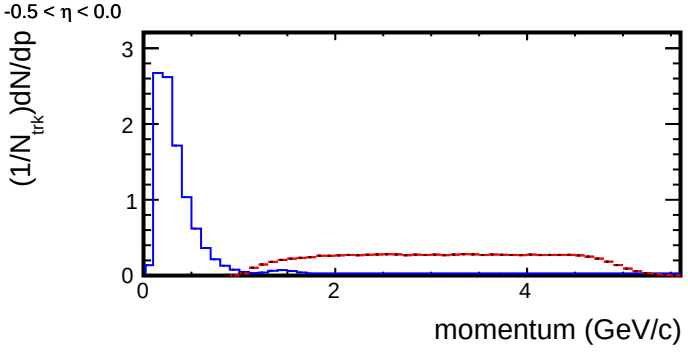
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

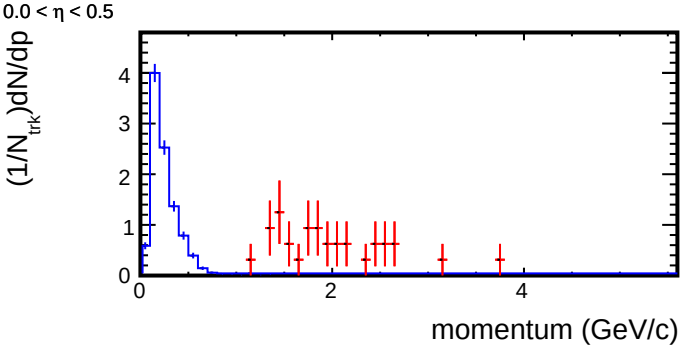
pi-
(PRIMARY, $|n\,\sigma_{pi-}|$<2 TPC)

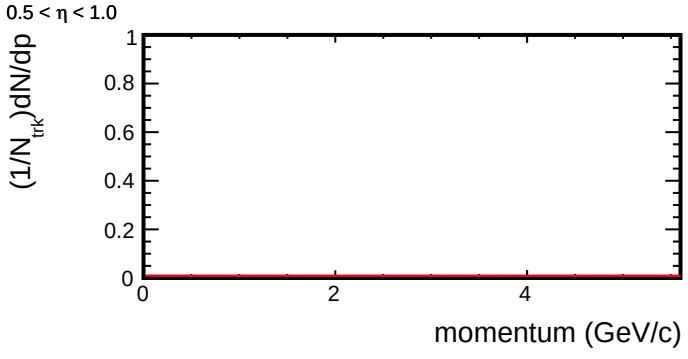
Projection of p for each η bin

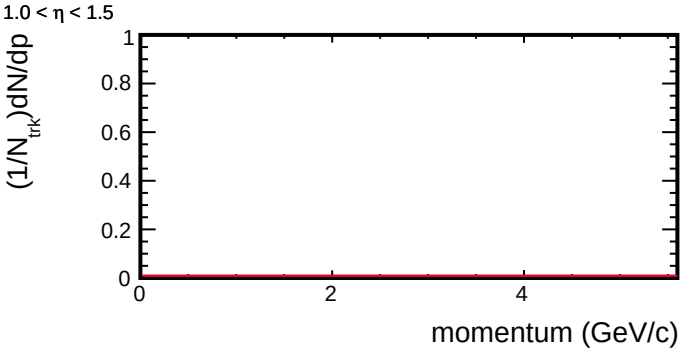








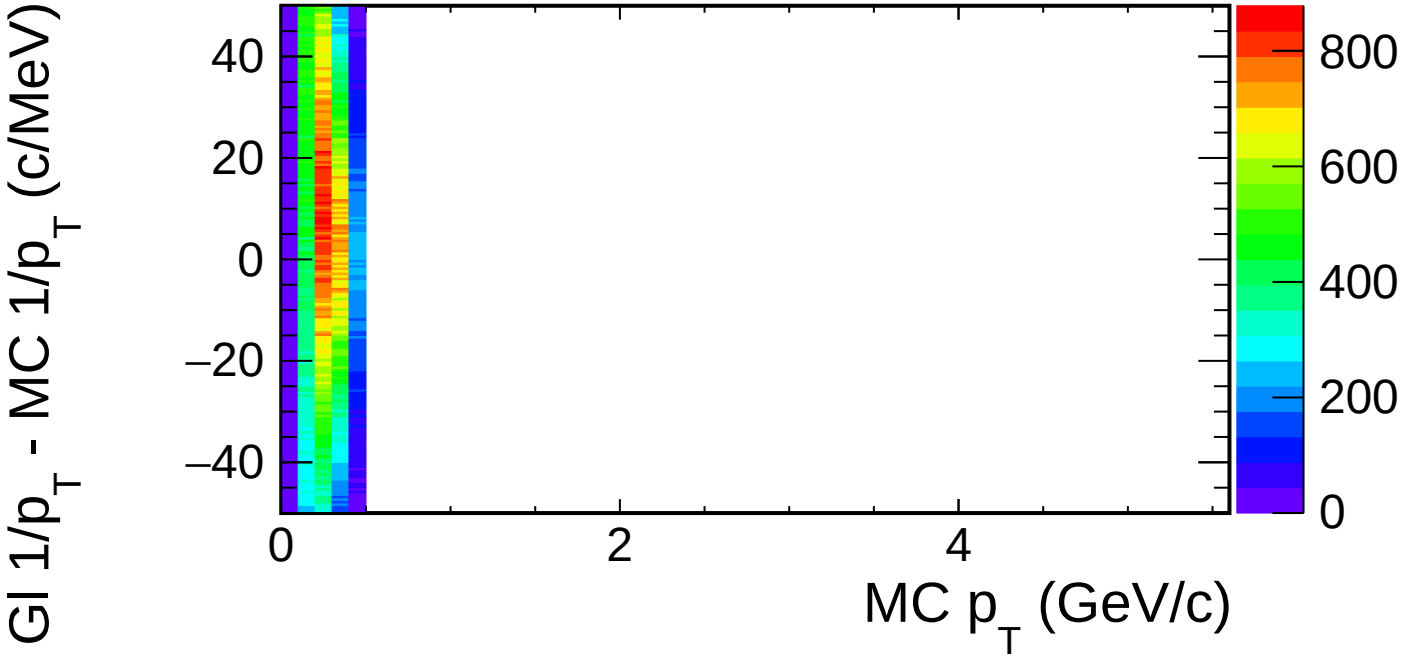


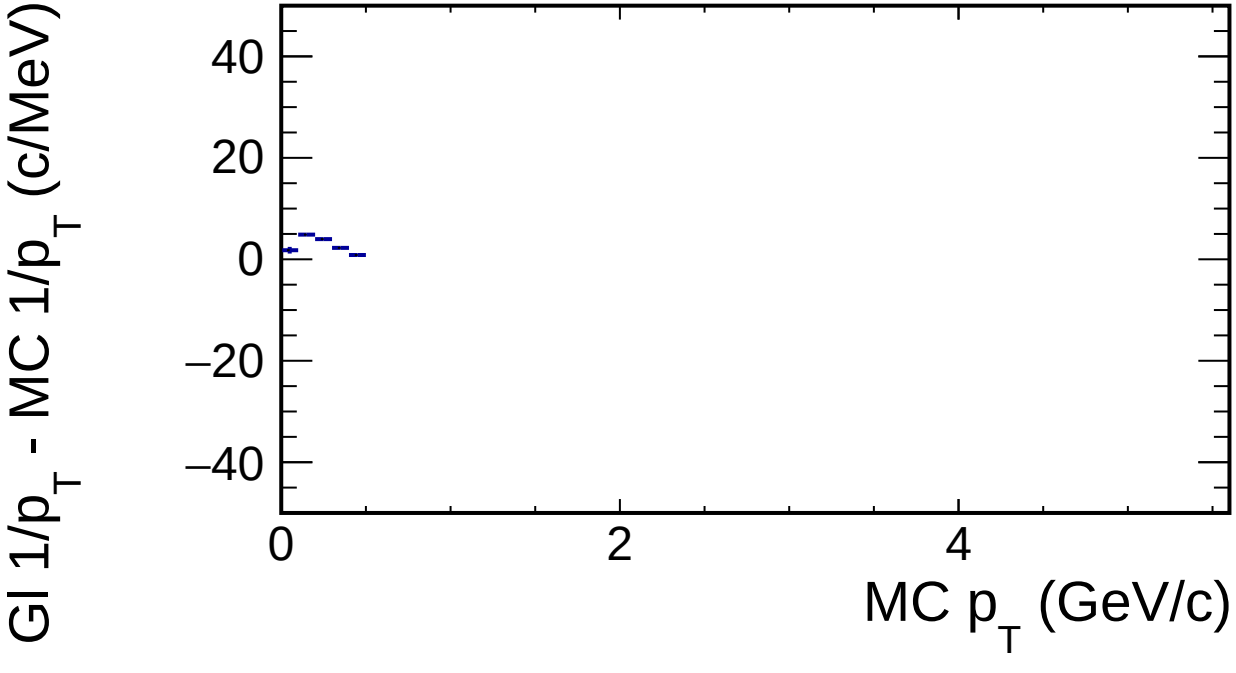


Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

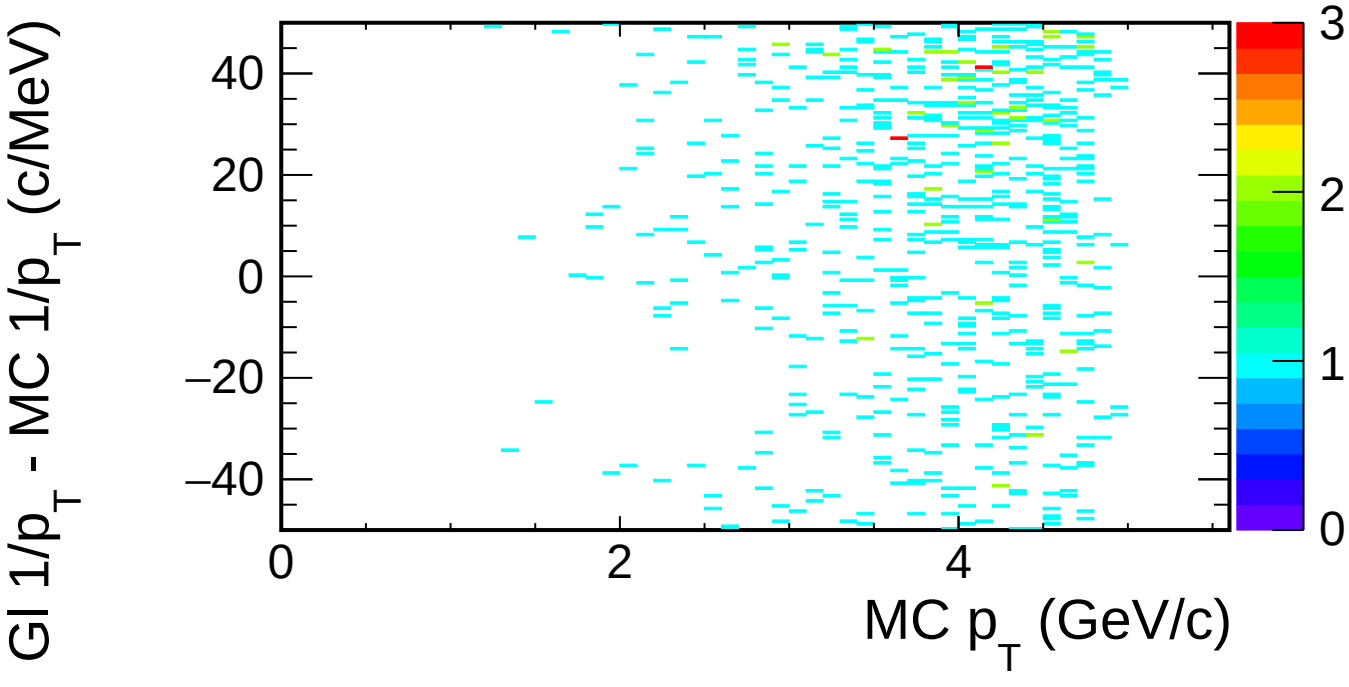
pi+
(PRIMARY, $|n\,\sigma_{pi+}|$<2 TPC)

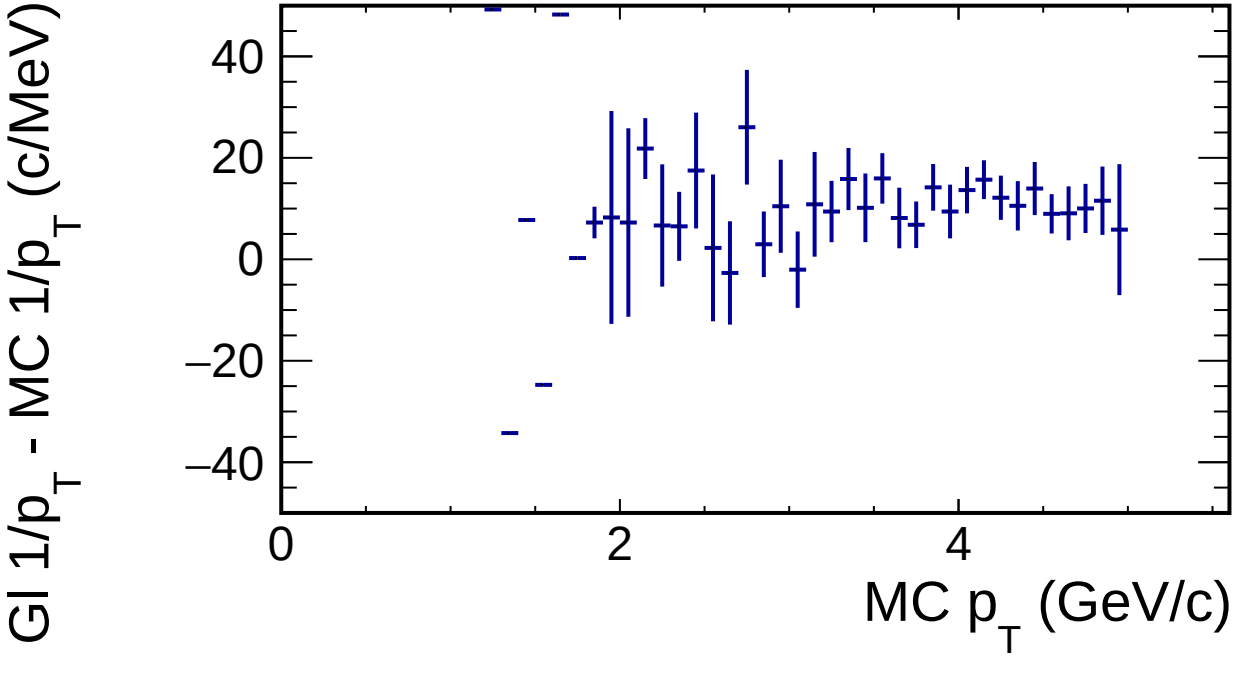
$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (pi-)



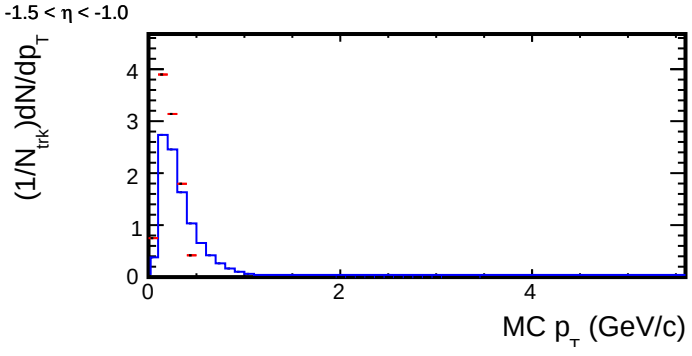


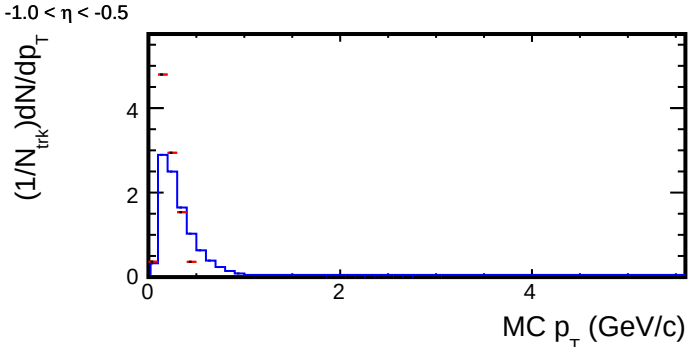
$1/p_T$ (Gl) - $1/p_T$ (MC) vs p_T (MC) (alpha)

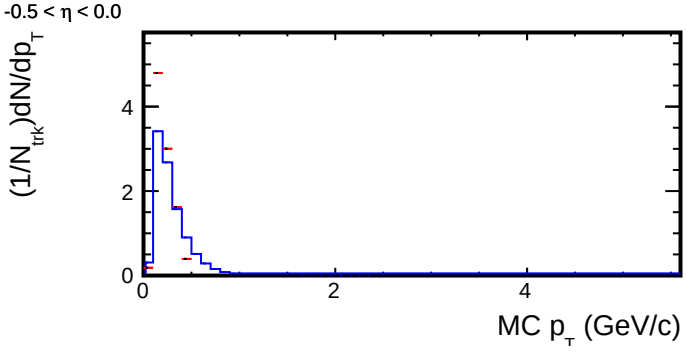


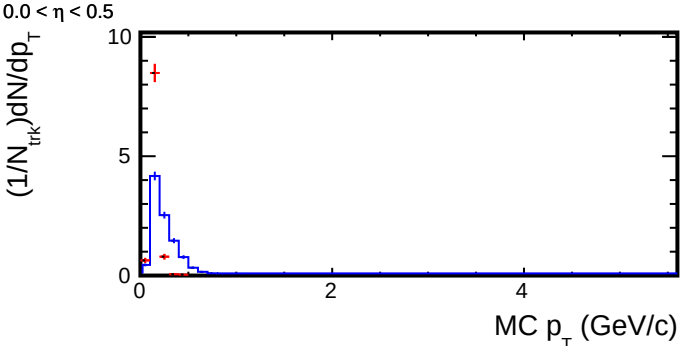


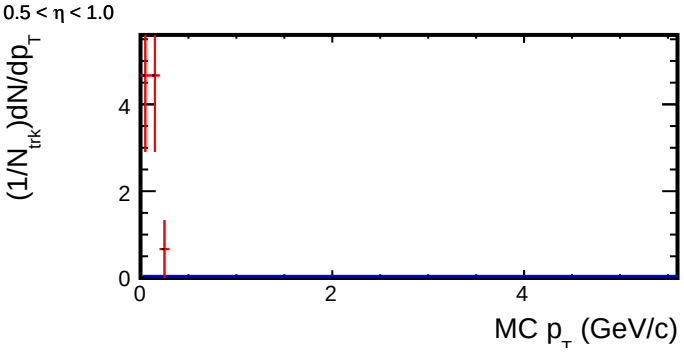
Projection of p_T for each η bin

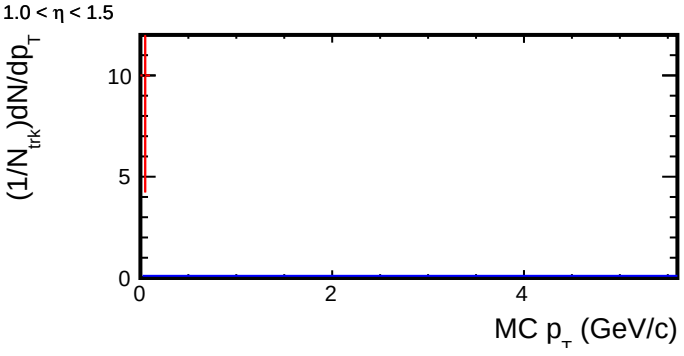








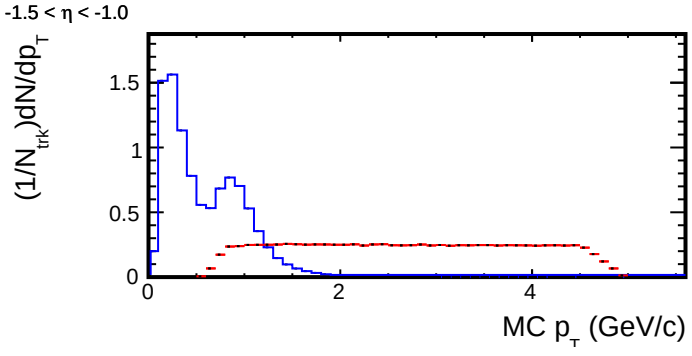


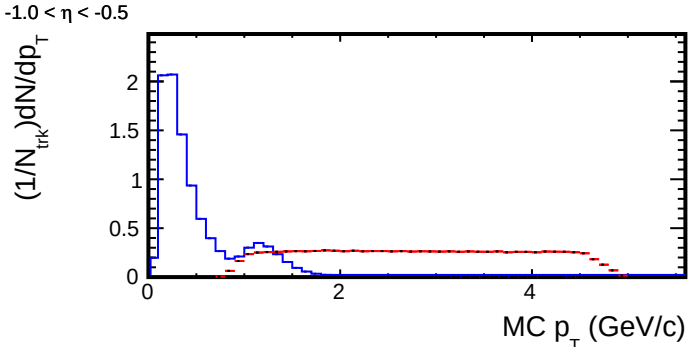


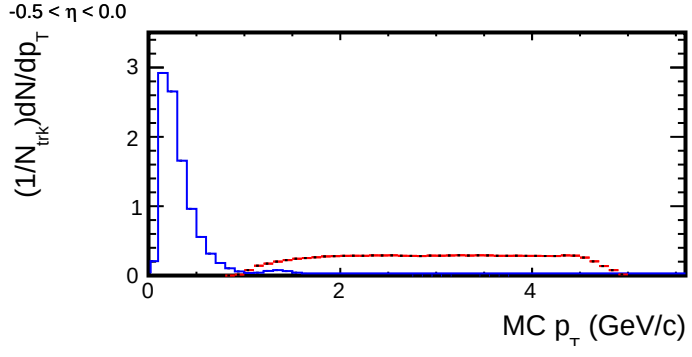
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

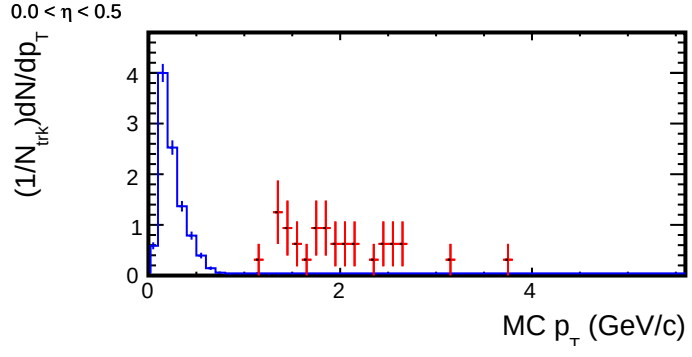
pi-
(PRIMARY, $|n\sigma_{pi-}|$<2 TPC)

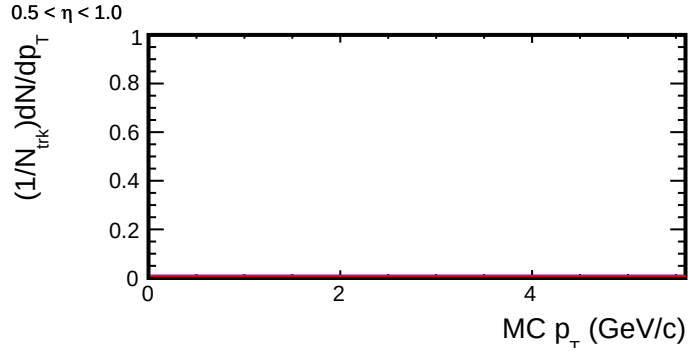
Projection of p_T for each η bin

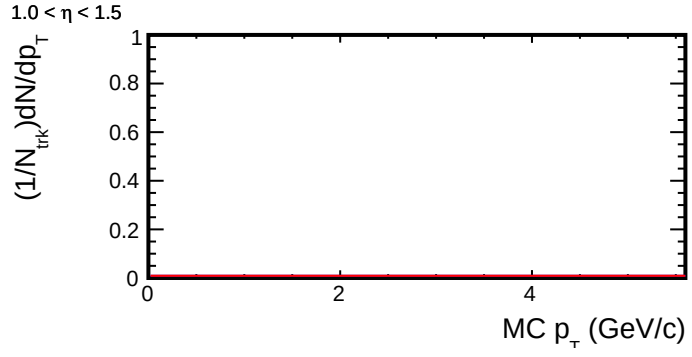








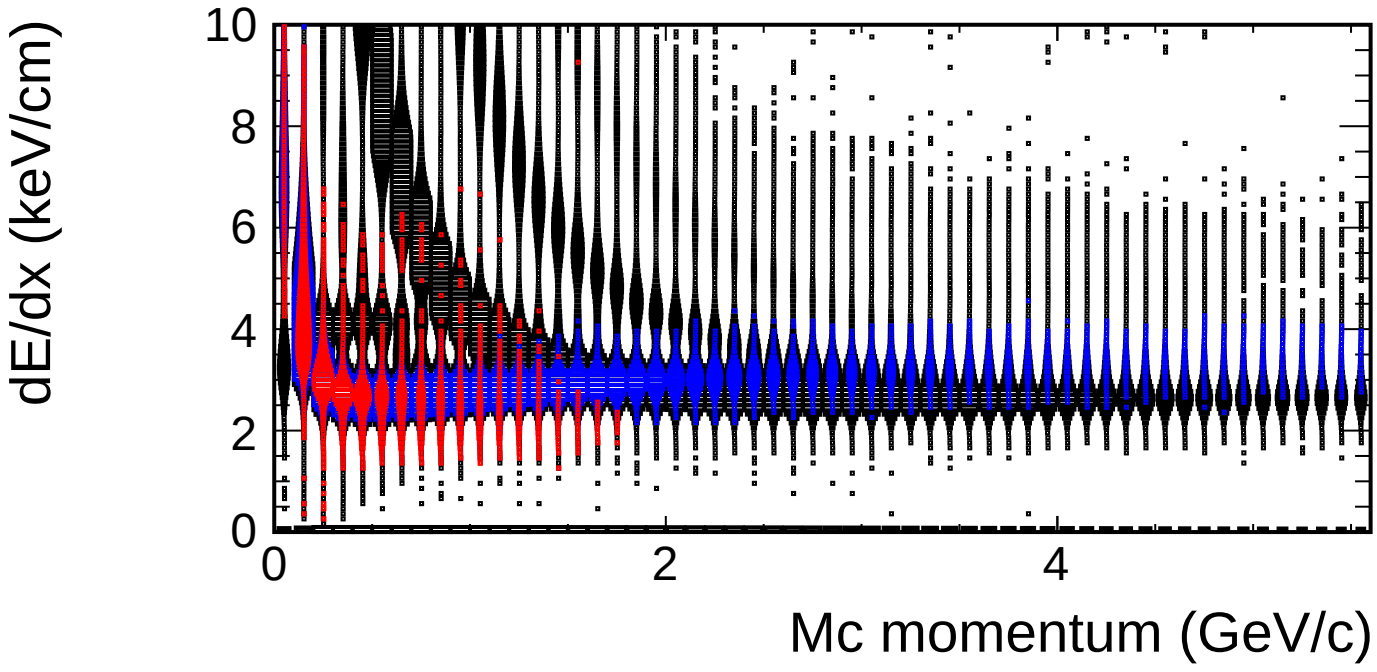




Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

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

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



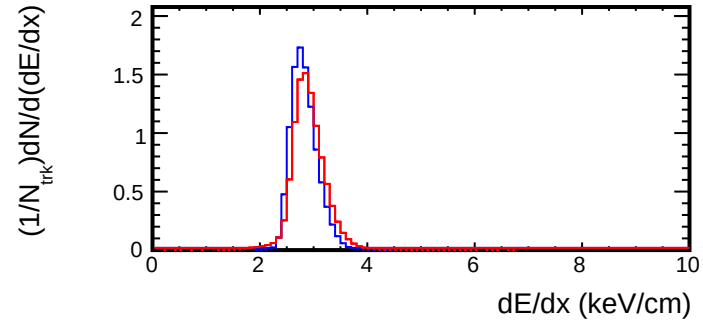
Daughter pi- (from H4Lambda) (CONTAM, geantid=9)

Real data

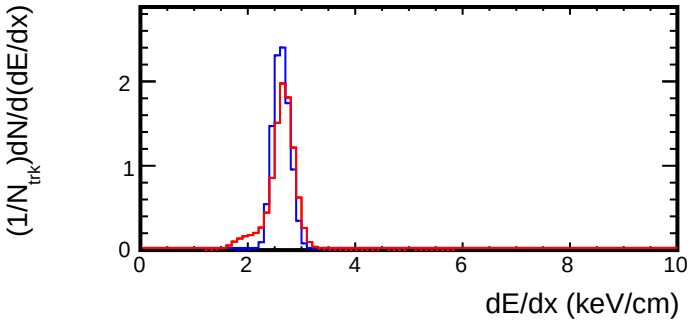
Real data with PID cut (σ<2) TPC

Projection of dE/dx for each p bin

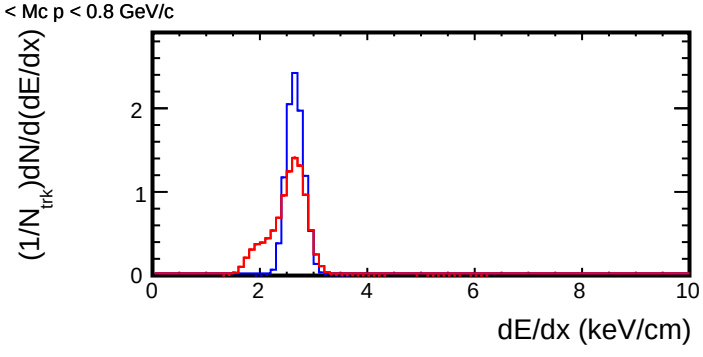
< Mc p < 0.4 GeV/c



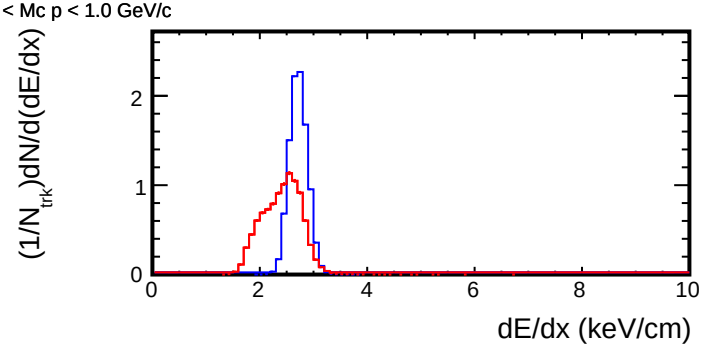
< Mc p < 0.6 GeV/c



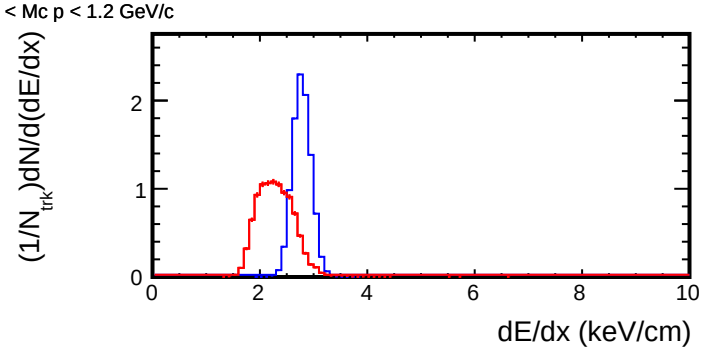
< Mc p < 0.8 GeV/c



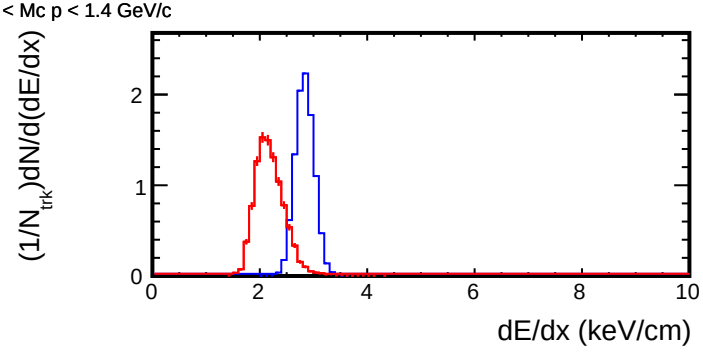
< Mc p < 1.0 GeV/c



< Mc p < 1.2 GeV/c



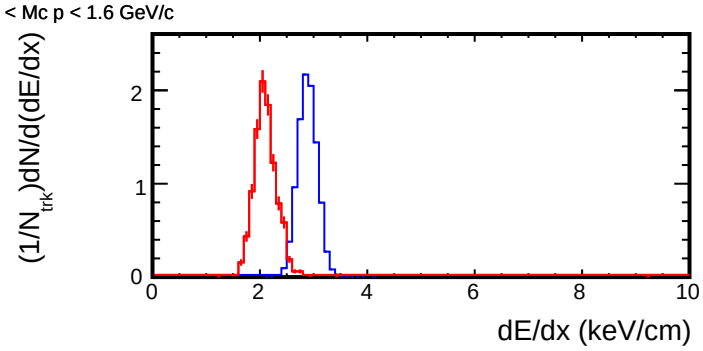
< Mc p < 1.4 GeV/c

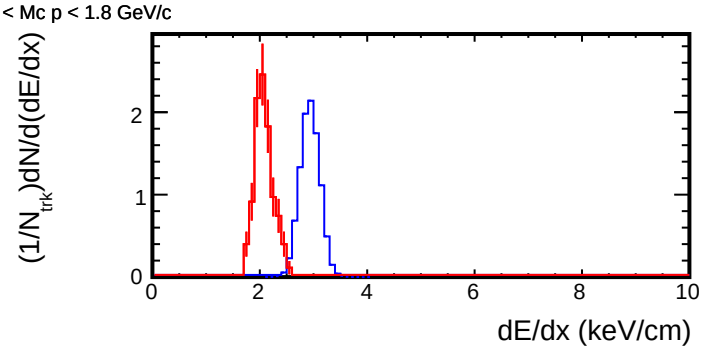


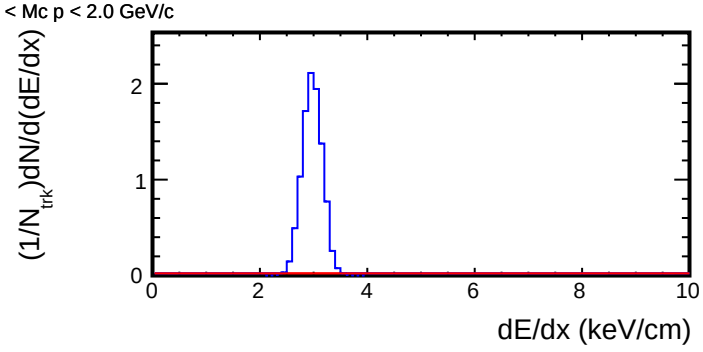
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

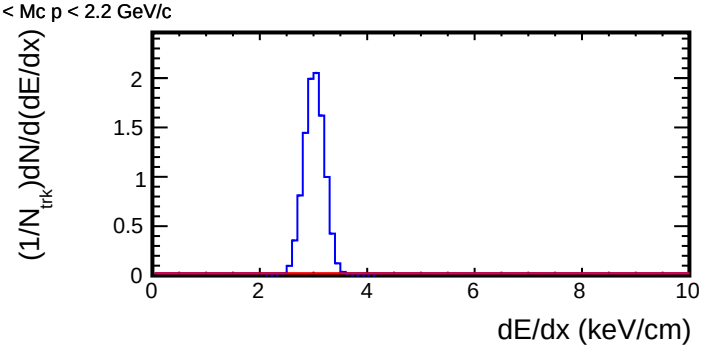
pi-
(PRIMARY, $|n\,\sigma_{pi-}|<2$ TPC)

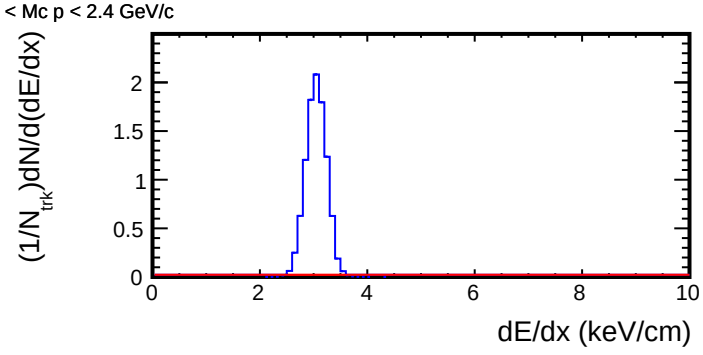
Projection of dE/dx for each p bin

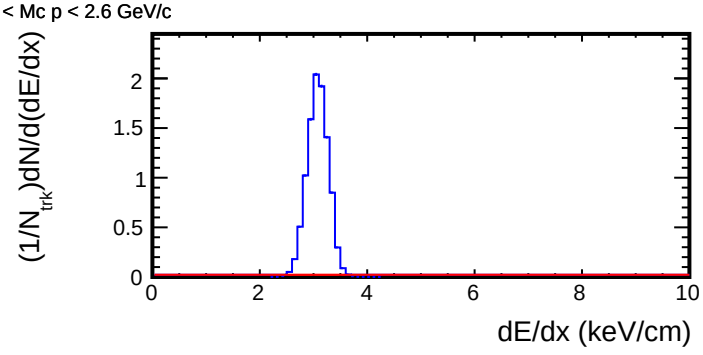








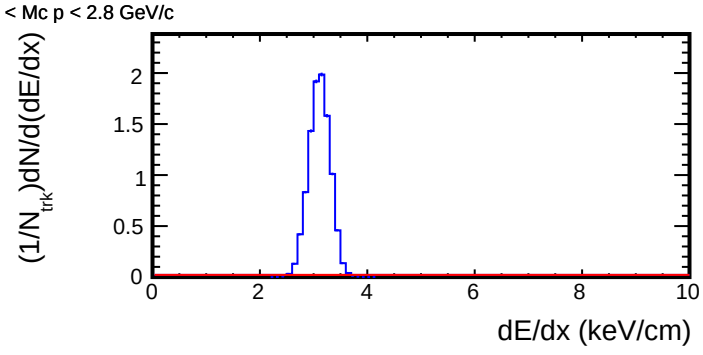


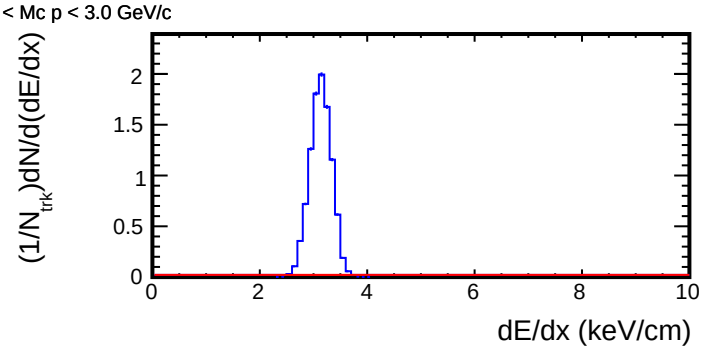


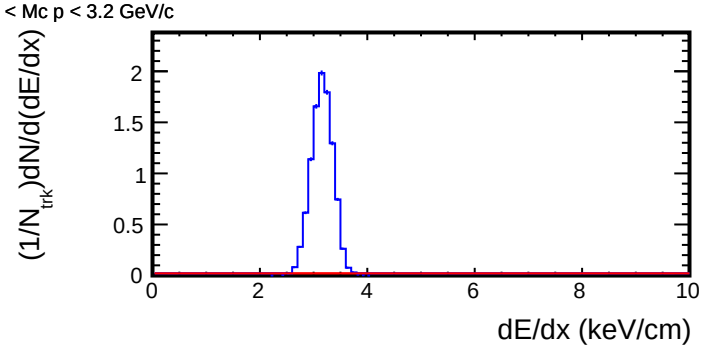
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

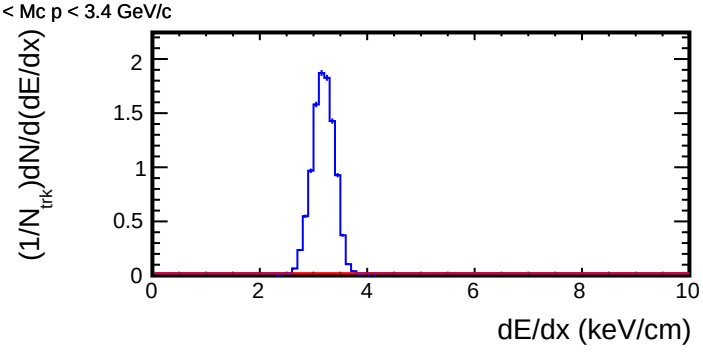
pi-
(PRIMARY, $|n\,\sigma_{pi-}|<2$ TPC)

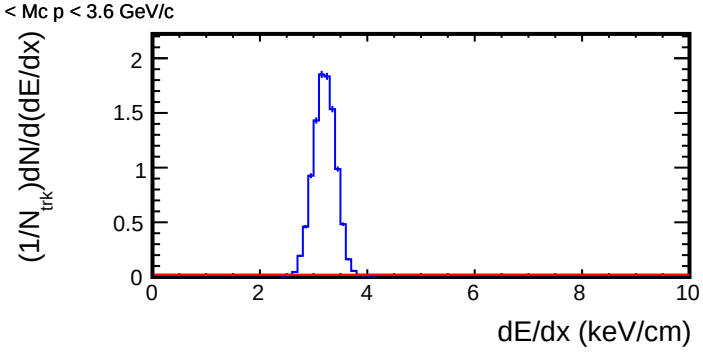
Projection of dE/dx for each p bin

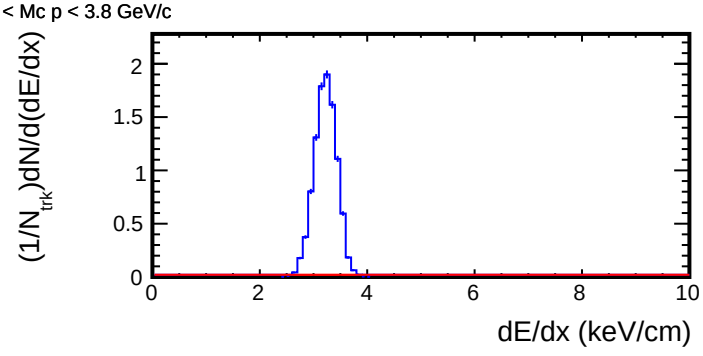








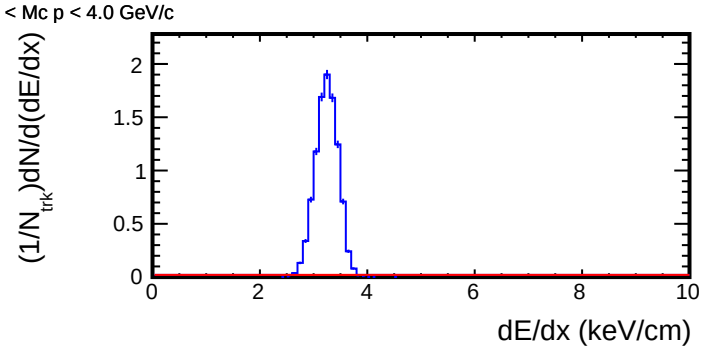


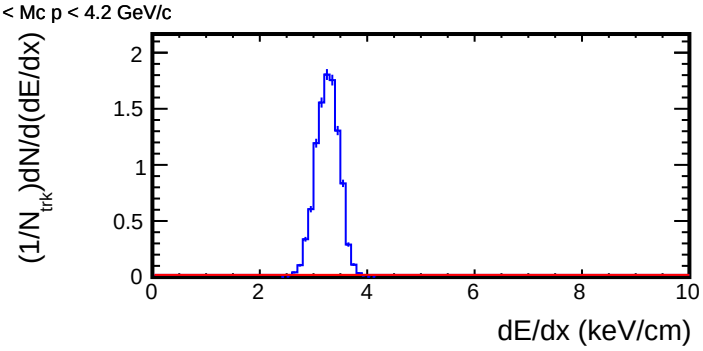


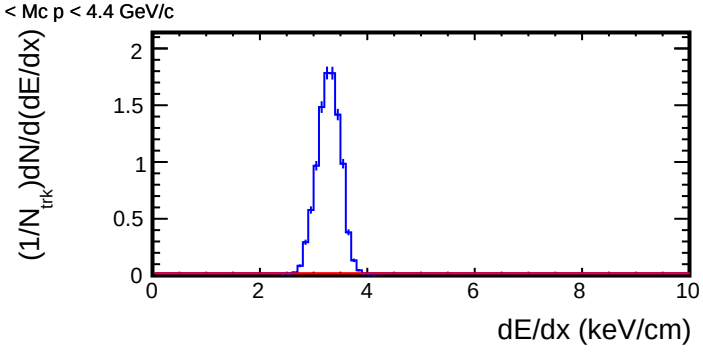
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

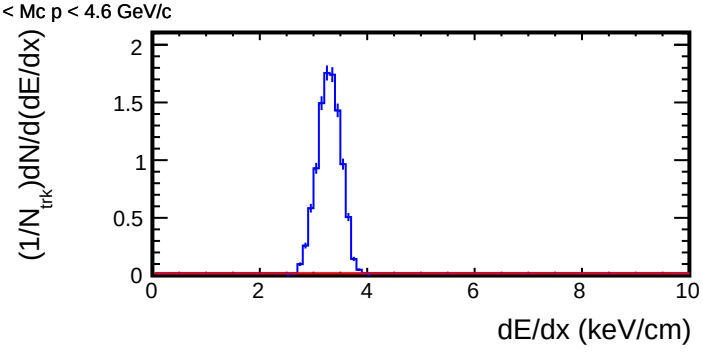
pi-
(PRIMARY, $|n\,\sigma_{pi-}|<2$ TPC)

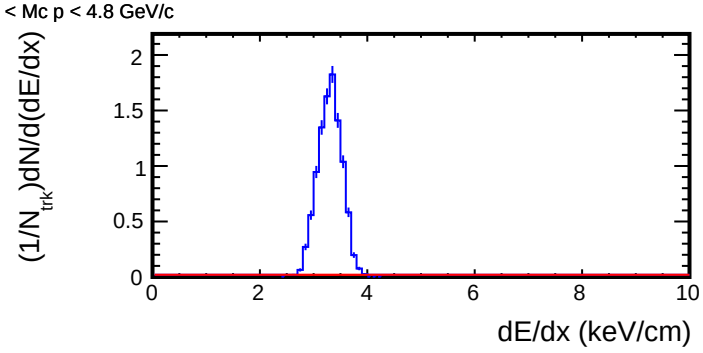
Projection of dE/dx for each p bin

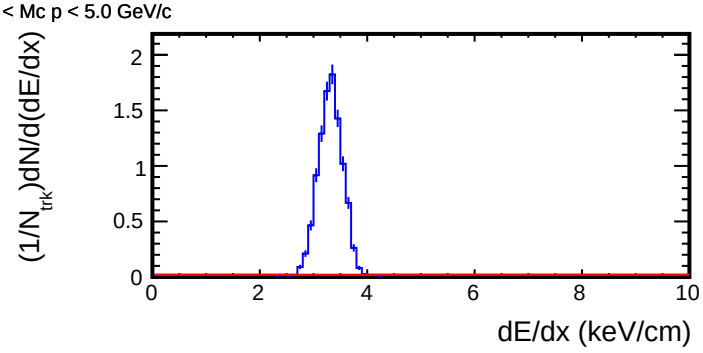








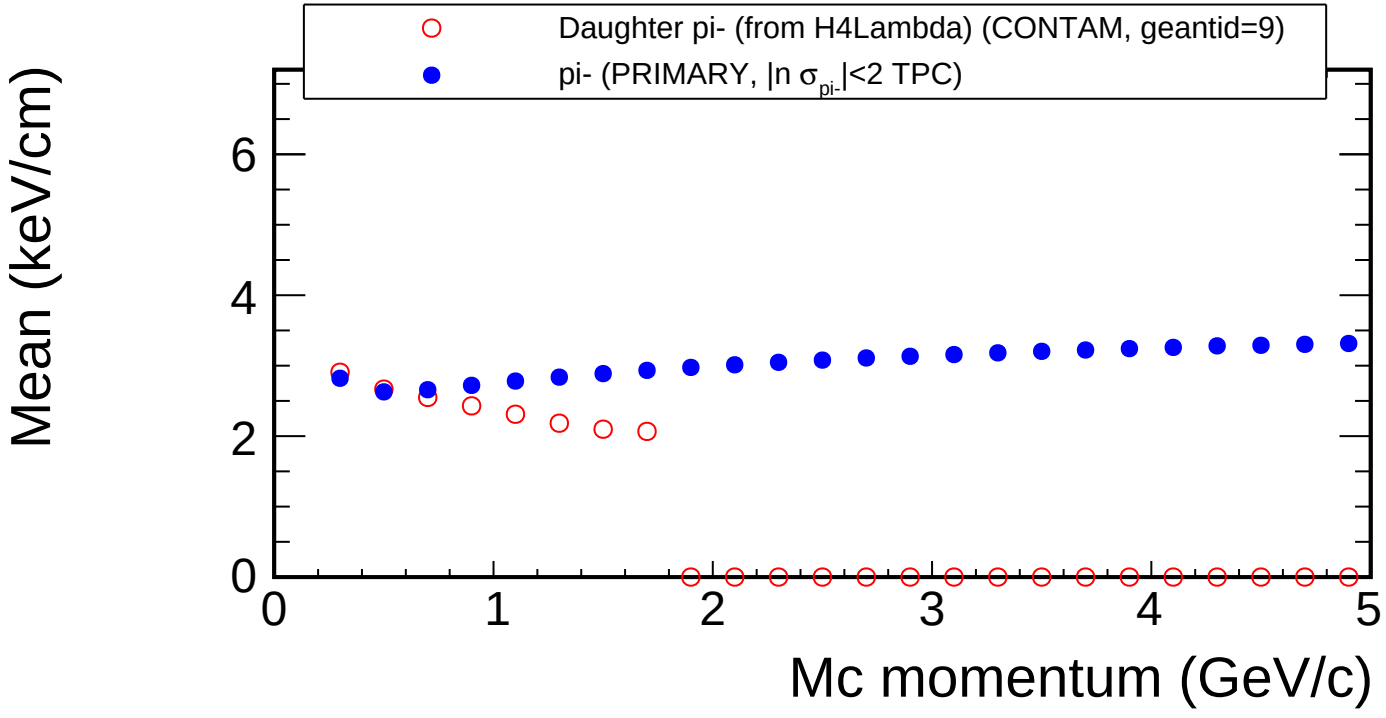


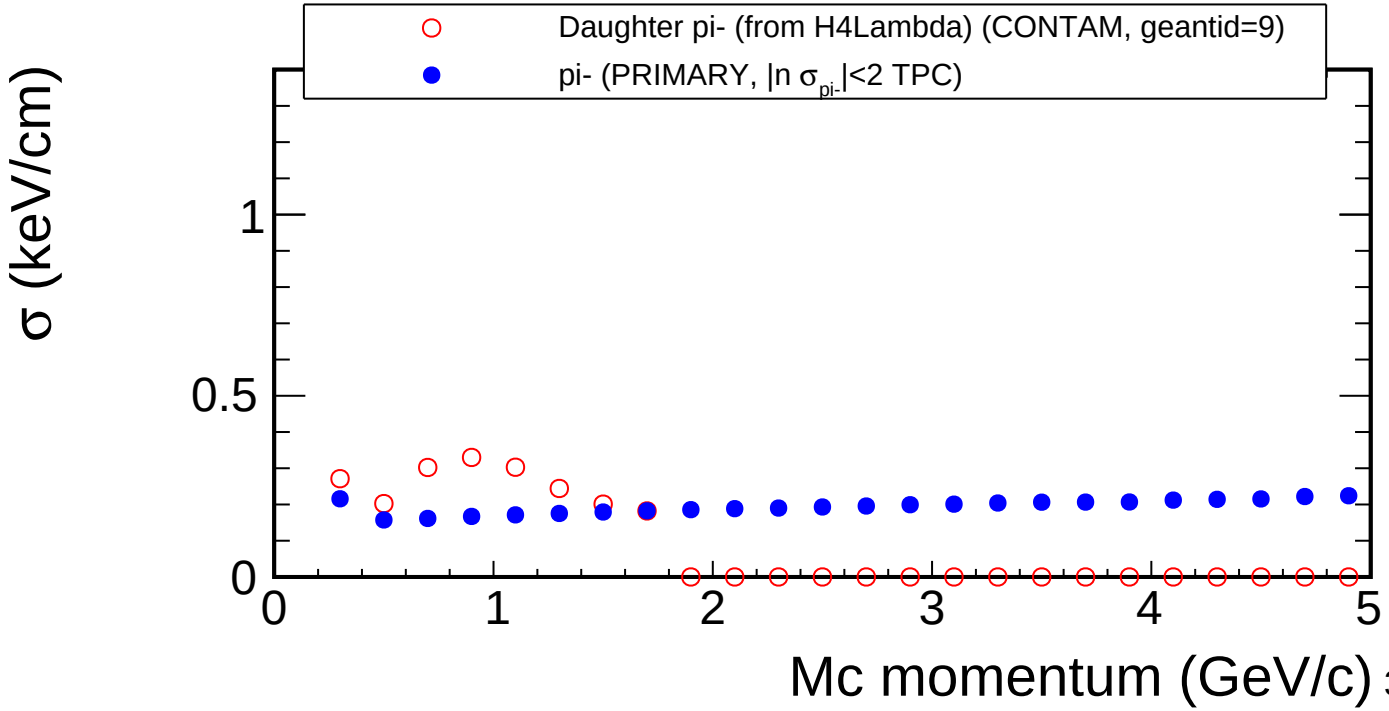


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

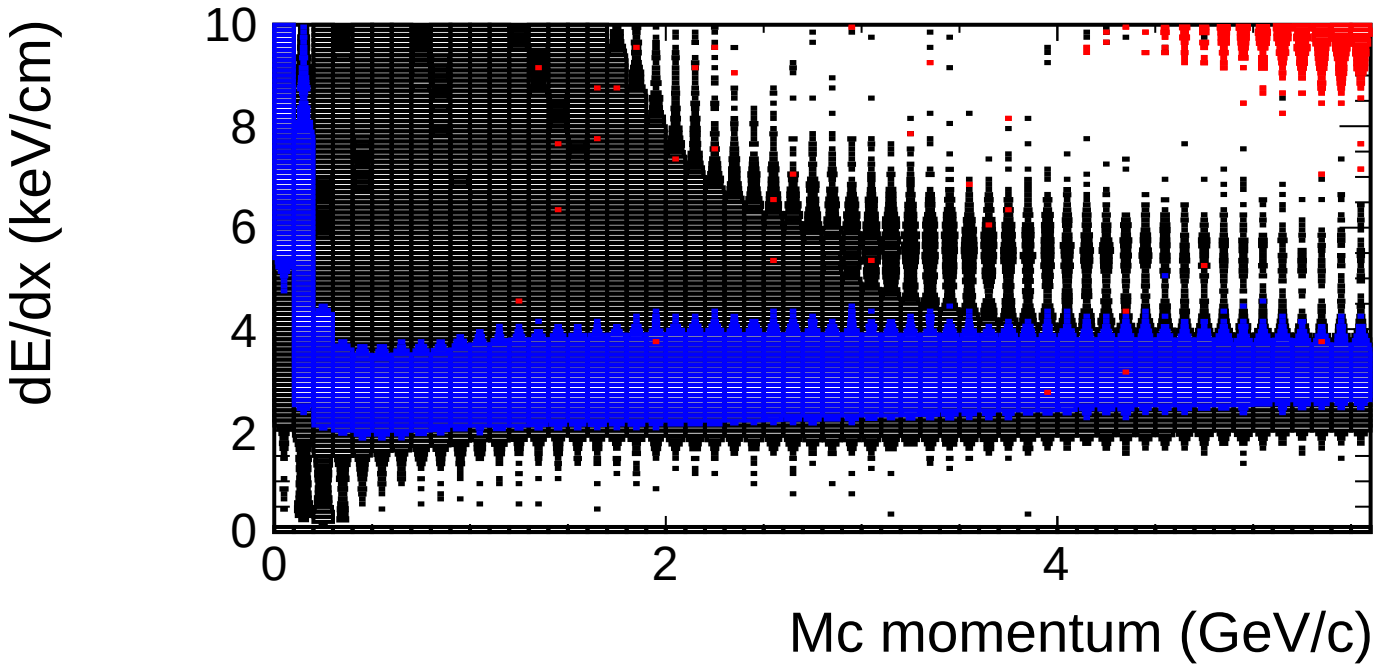
pi-
(PRIMARY, $|n\,\sigma_{pi-}|<2$ TPC)

Mean/σ of dE/dx vs momentum





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

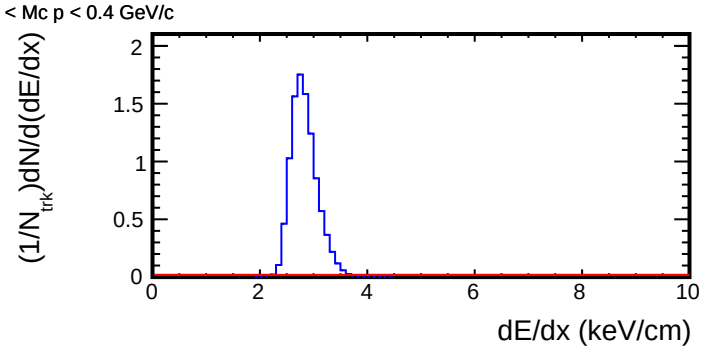


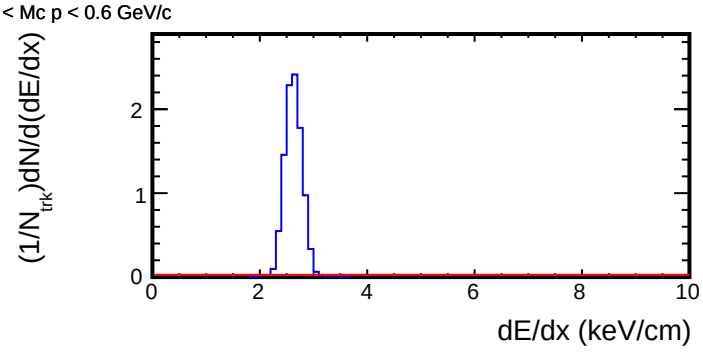
Daughter alpha (from H4Lambda) (CONTAM, geantid=47)

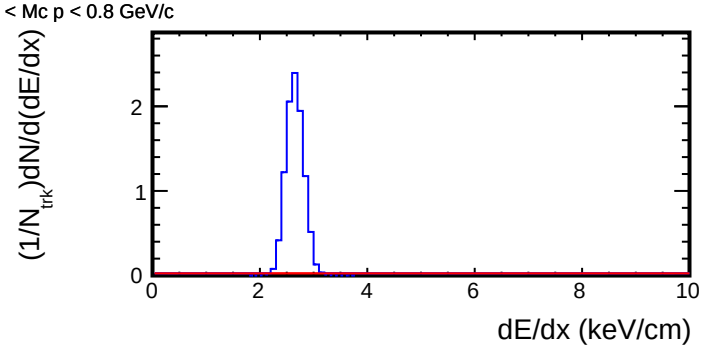
Real data

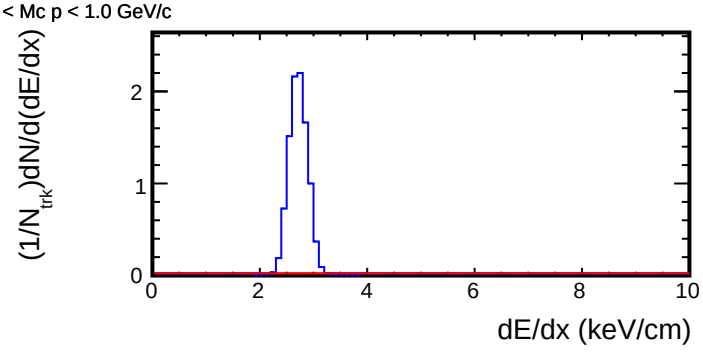
Real data with PID cut (σ<2) TPC

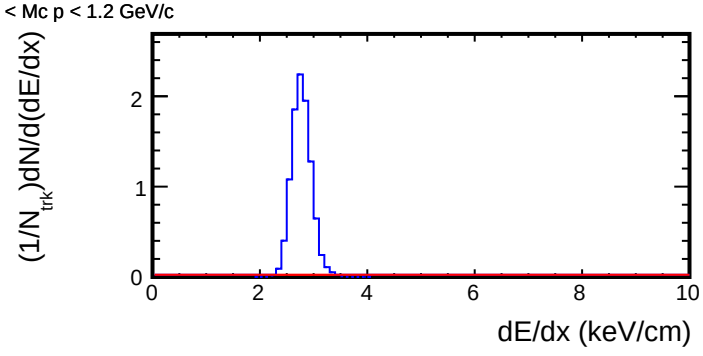
Projection of dE/dx for each p bin

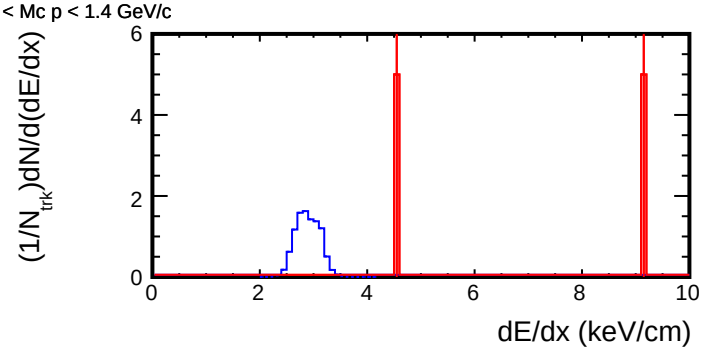








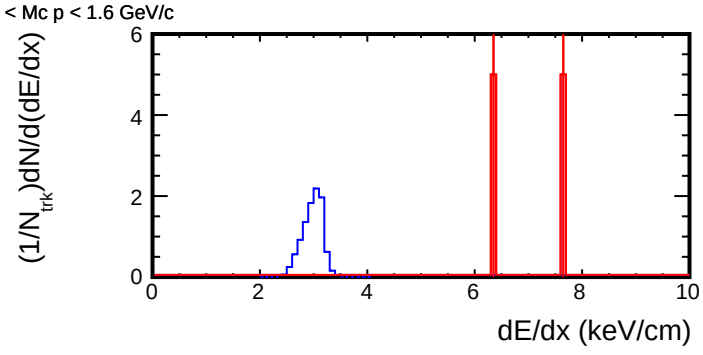


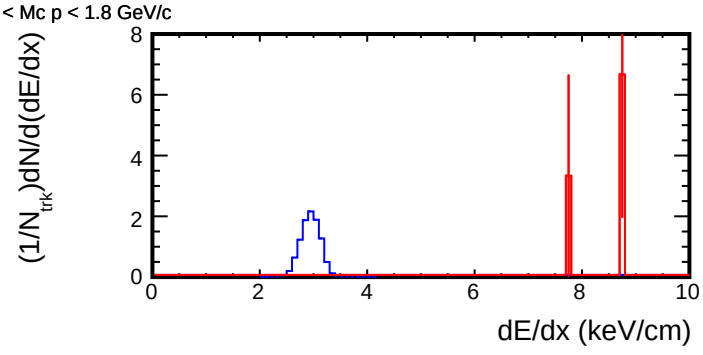


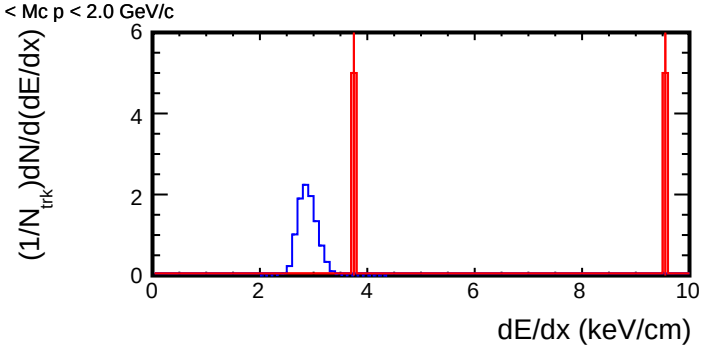
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

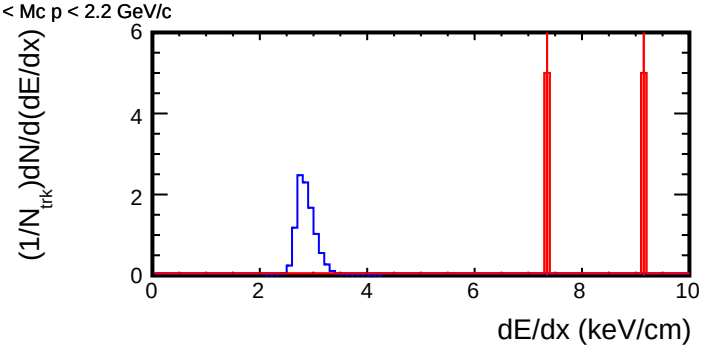
pi+
(PRIMARY, $|n\,\sigma_{pi+}|<2$ TPC)

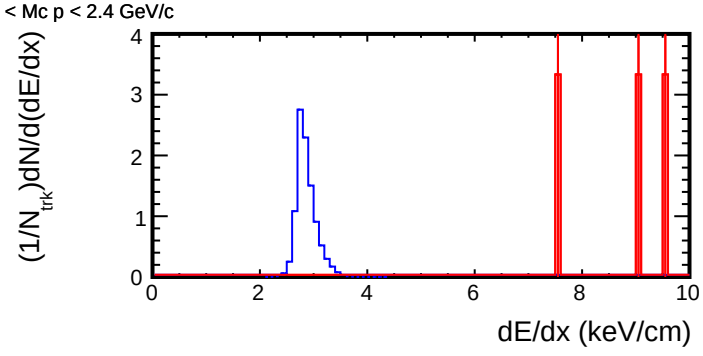
Projection of dE/dx for each p bin

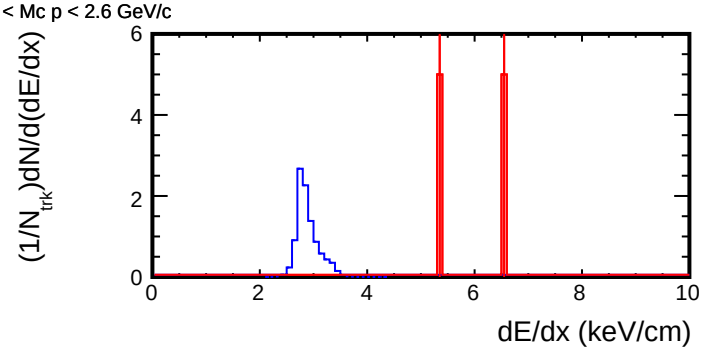








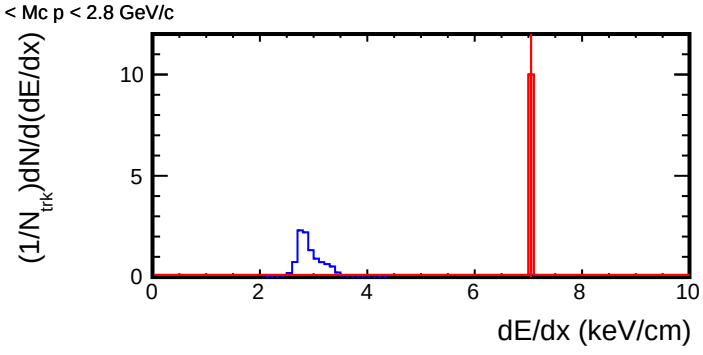


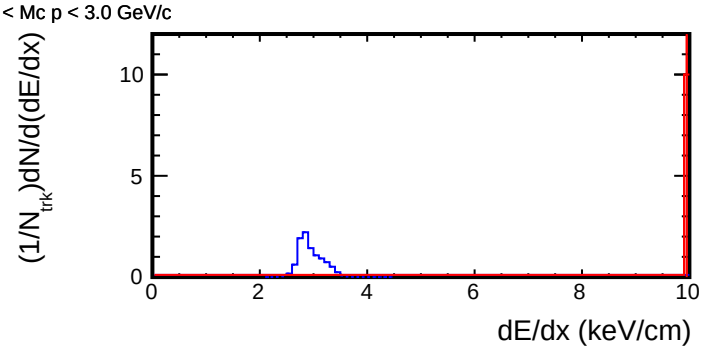


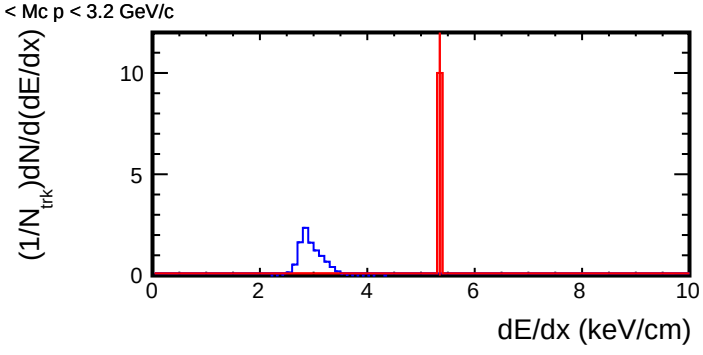
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

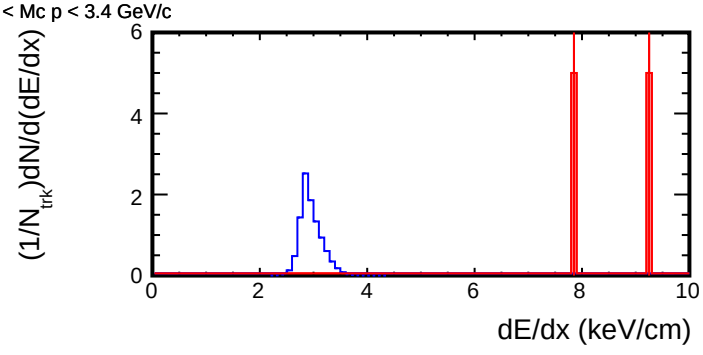
pi+
(PRIMARY, $|n\,\sigma_{pi+}|<2$ TPC)

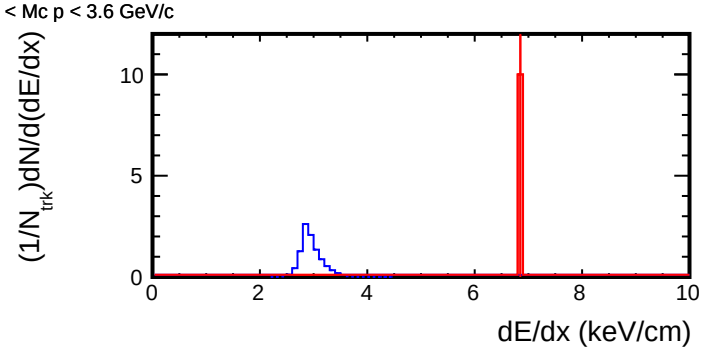
Projection of dE/dx for each p bin

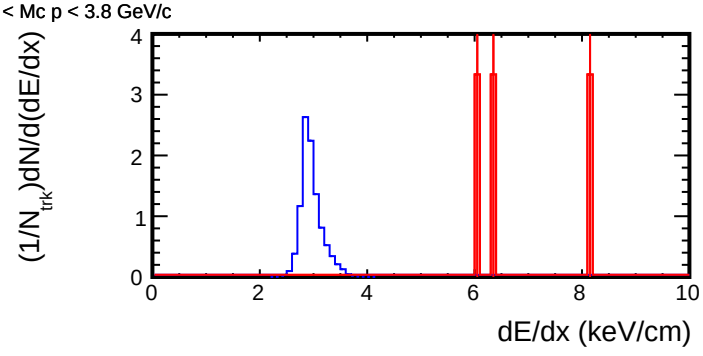








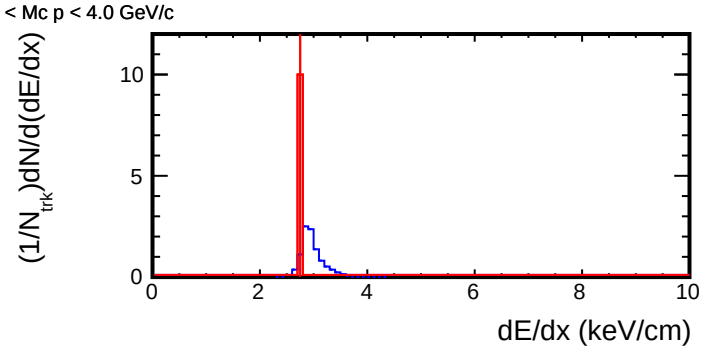


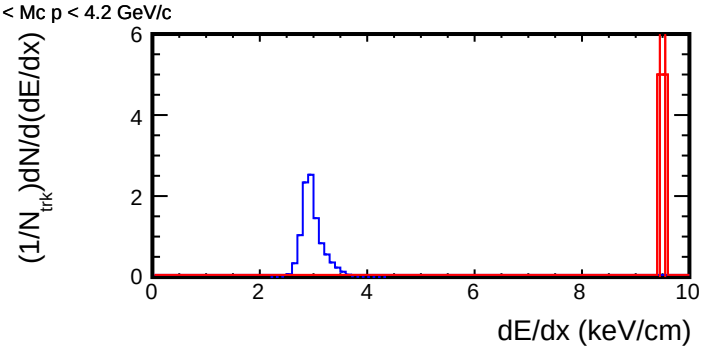


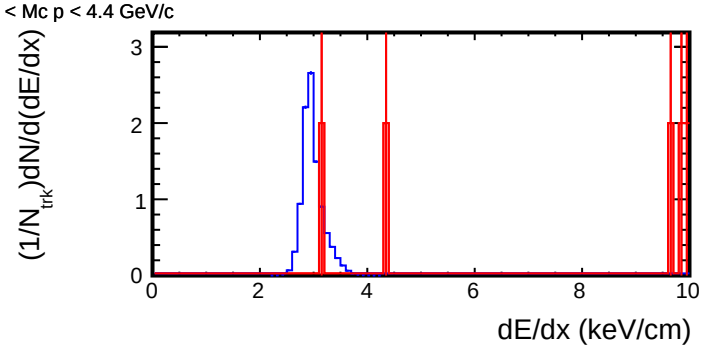
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

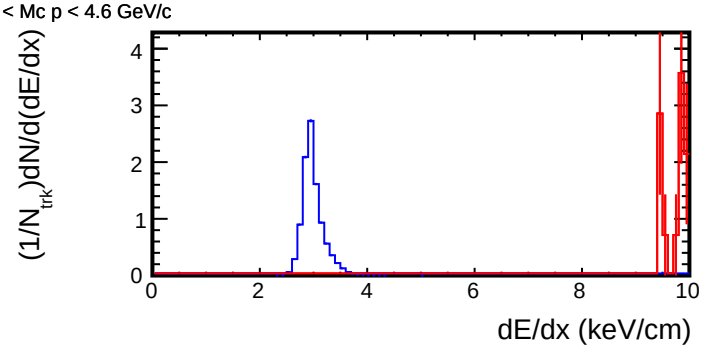
pi+
(PRIMARY, $|n\,\sigma_{pi+}|$<2 TPC)

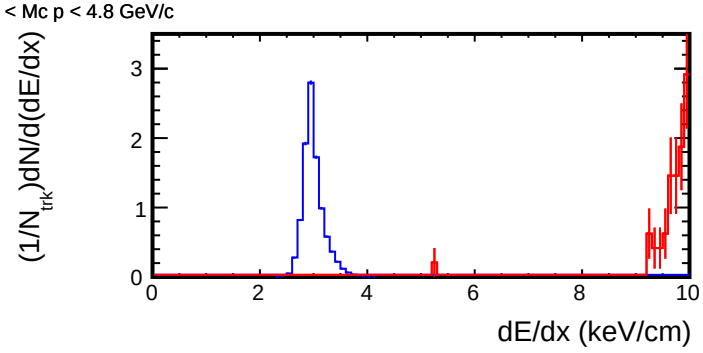
Projection of dE/dx for each p bin

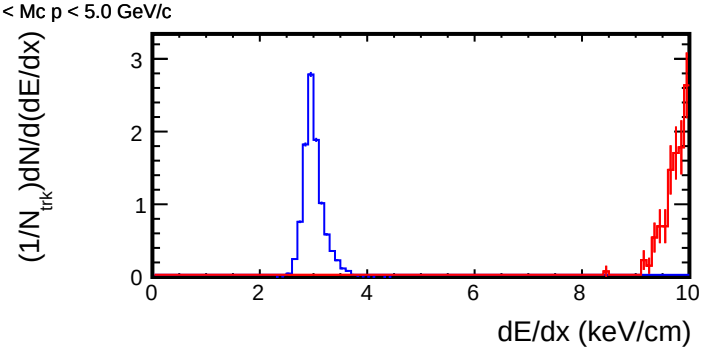








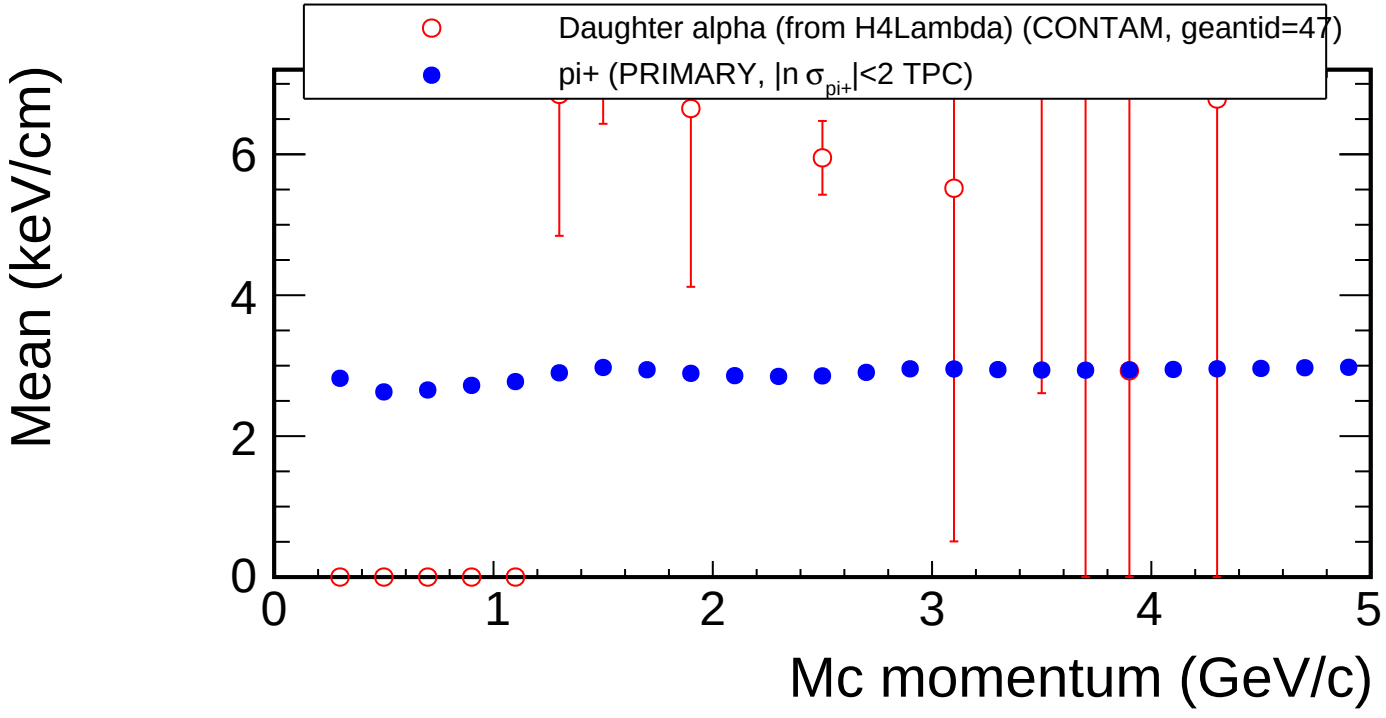


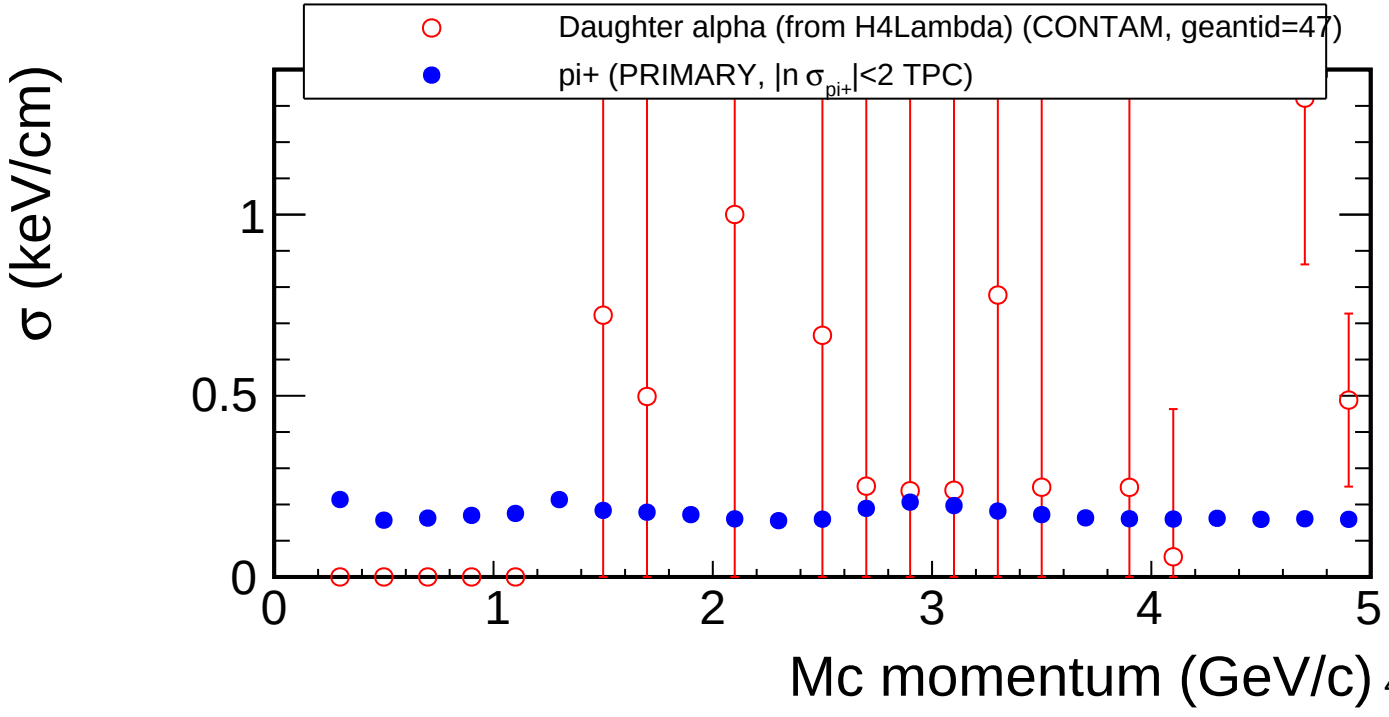


Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

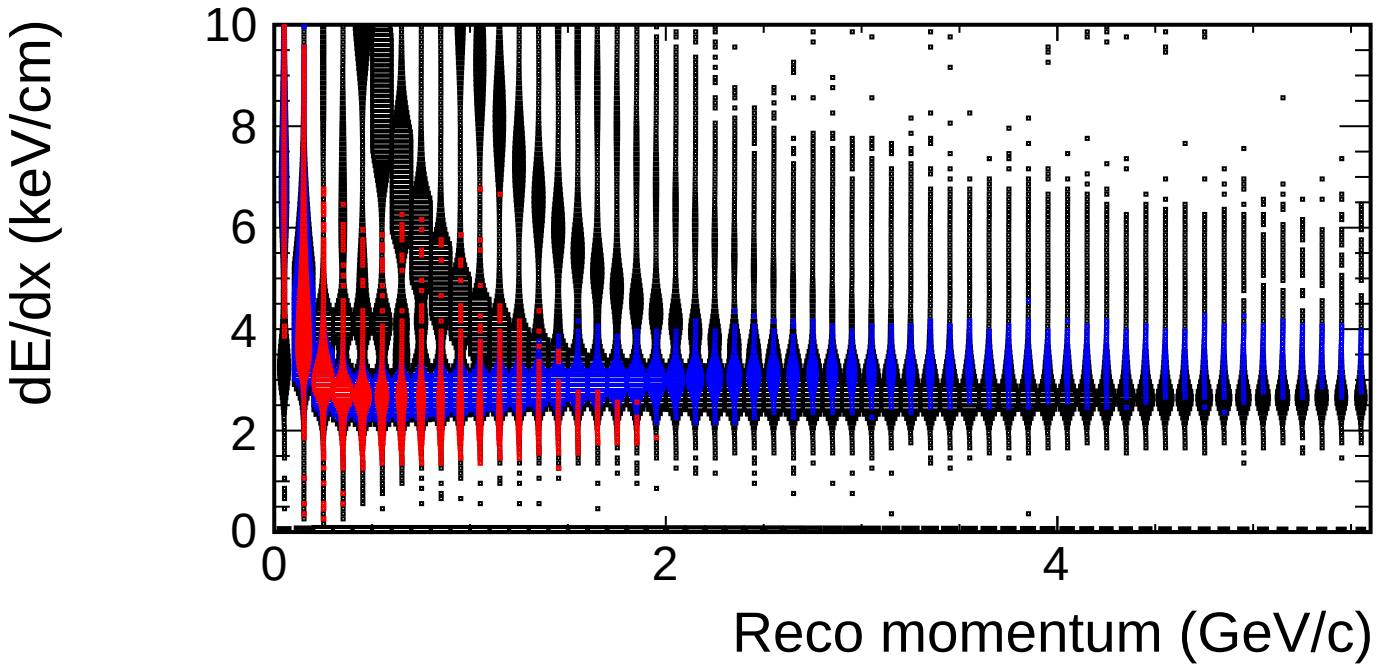
pi+
(PRIMARY, $|n\,\sigma_{pi+}|$<2 TPC)

Mean/σ of dE/dx vs momentum





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

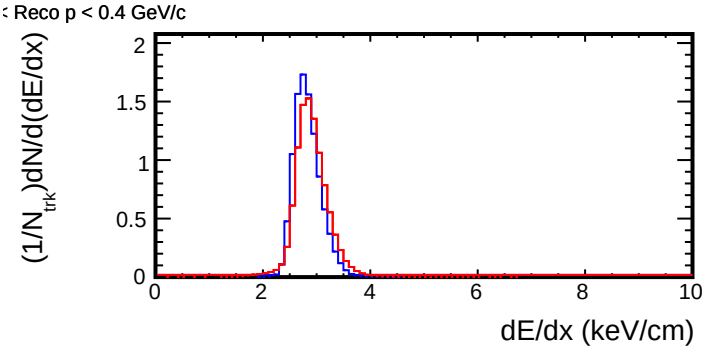


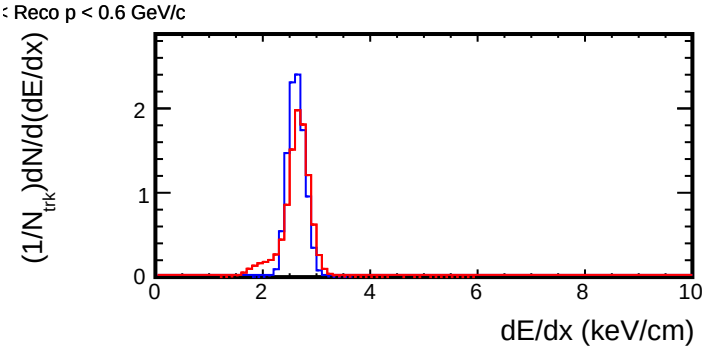
Daughter pi- (from H4Lambda) (CONTAM, geantid=9)

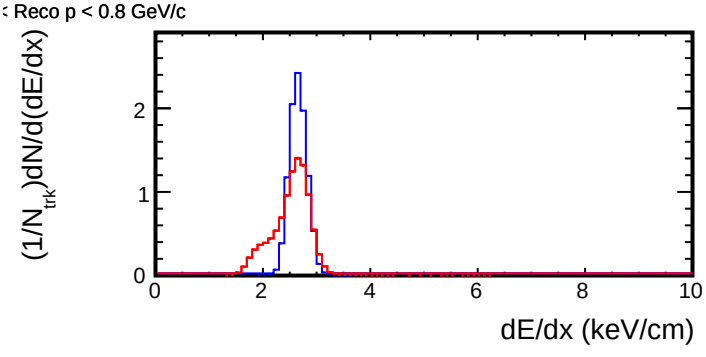
Real data

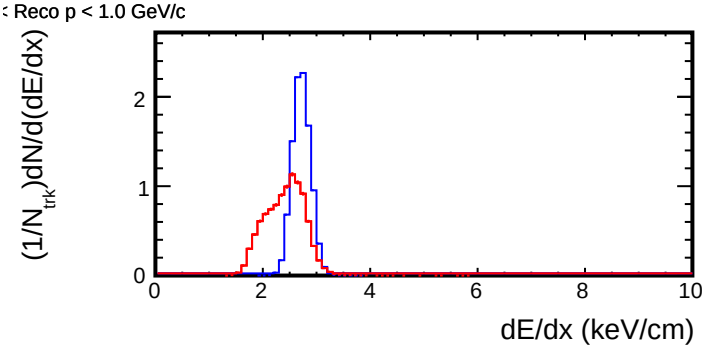
Real data with PID cut (σ<2) TPC

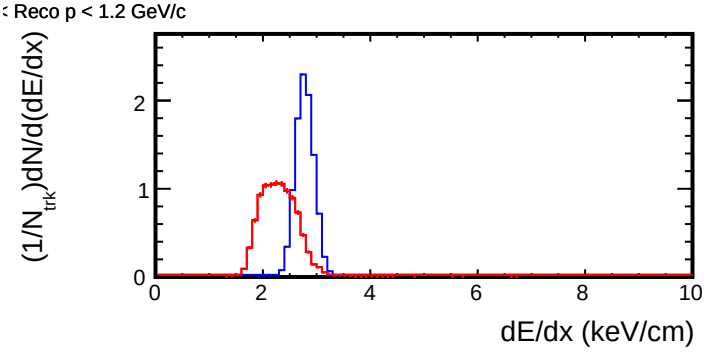
Projection of dE/dx for each p bin

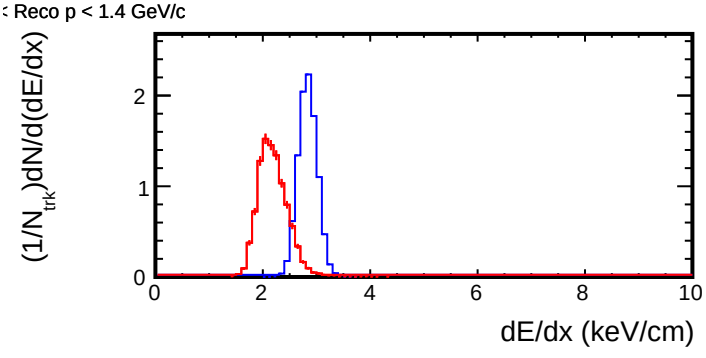








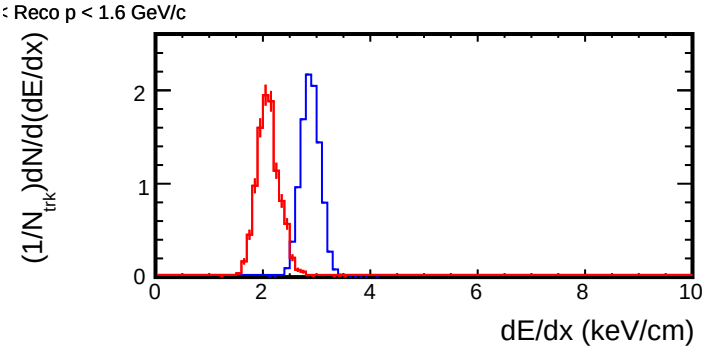


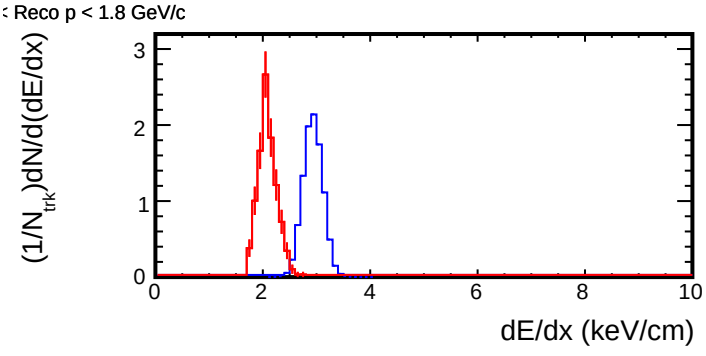


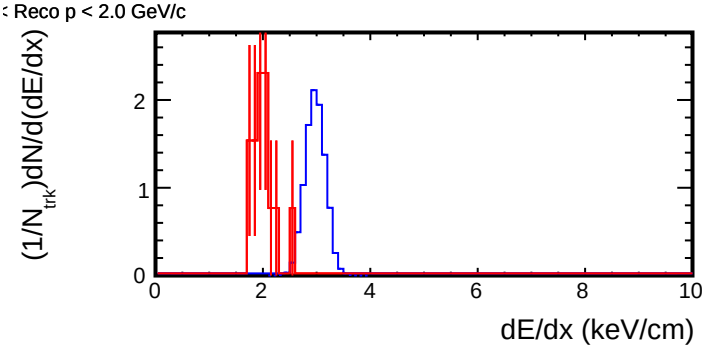
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

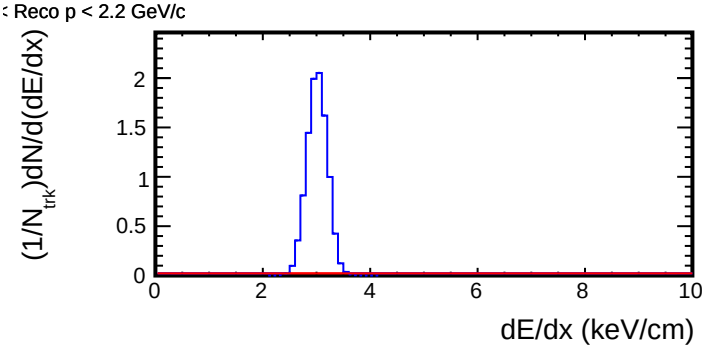
pi-
(PRIMARY, $|n\,\sigma_{pi-}|<2$ TPC)

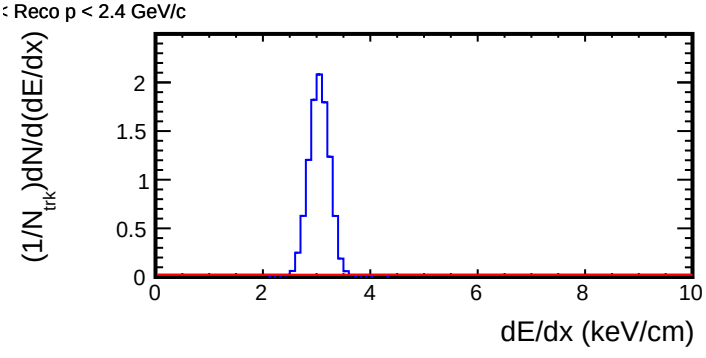
Projection of dE/dx for each p bin

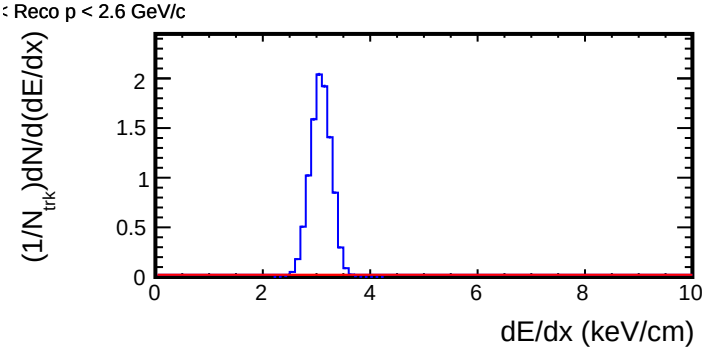








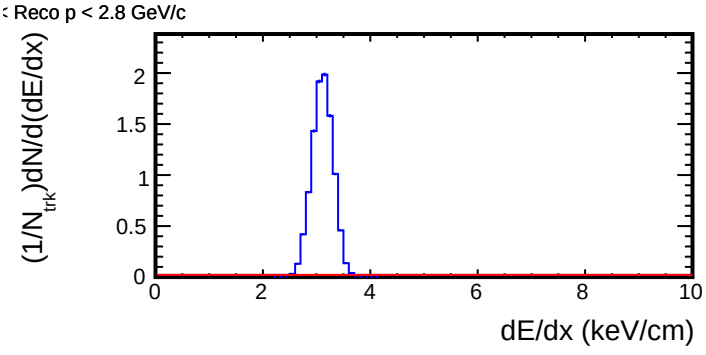


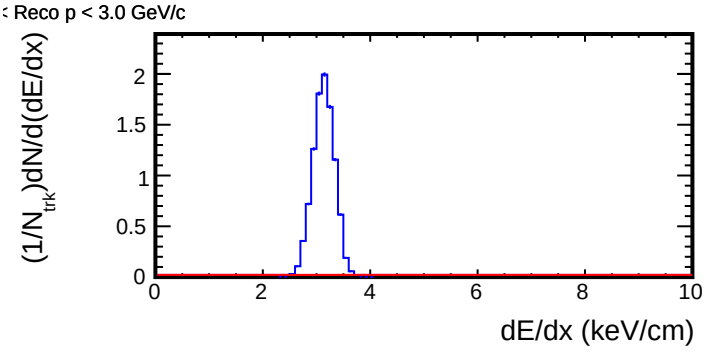


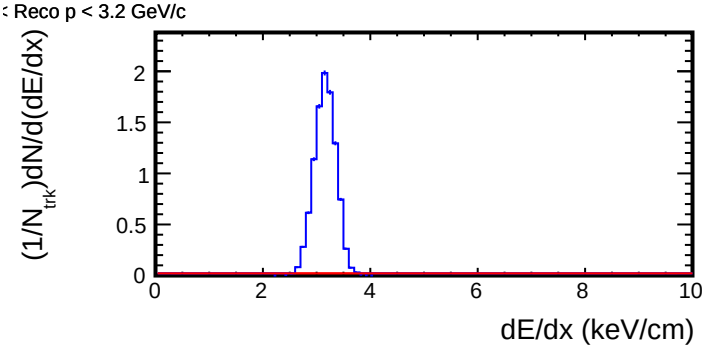
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

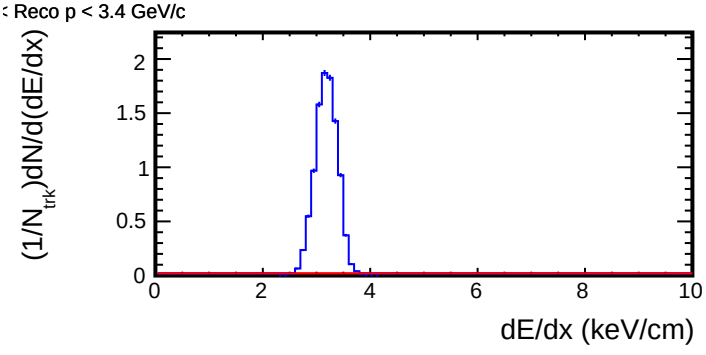
pi-
(PRIMARY, $|n\,\sigma_{pi-}|<2$ TPC)

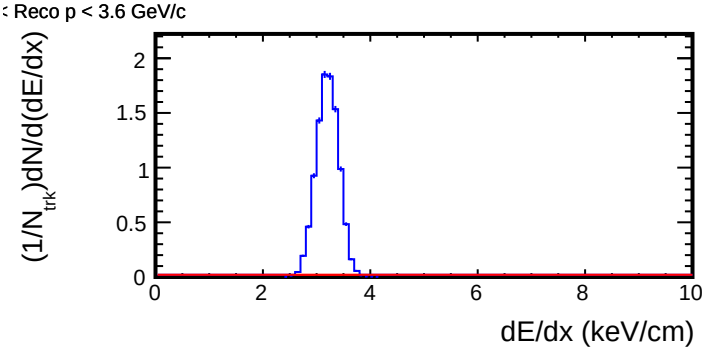
Projection of dE/dx for each p bin

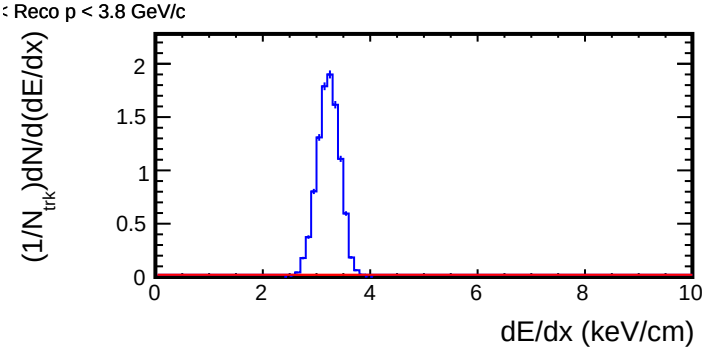








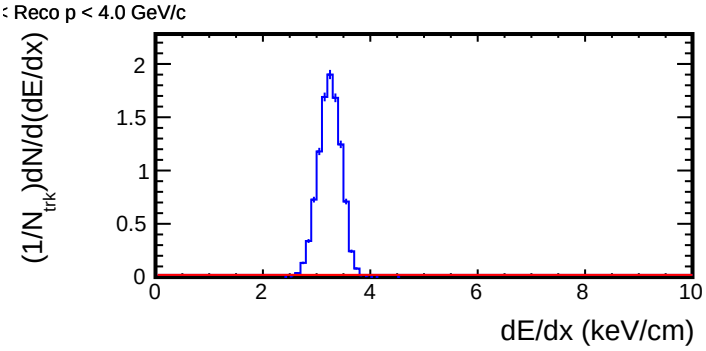


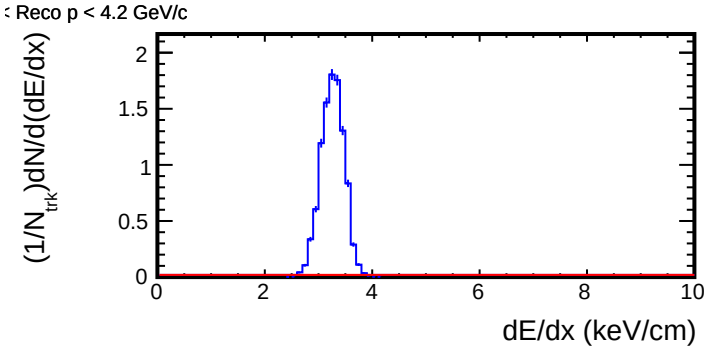


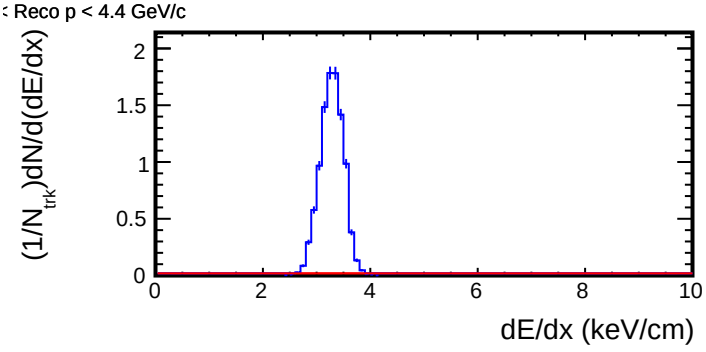
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

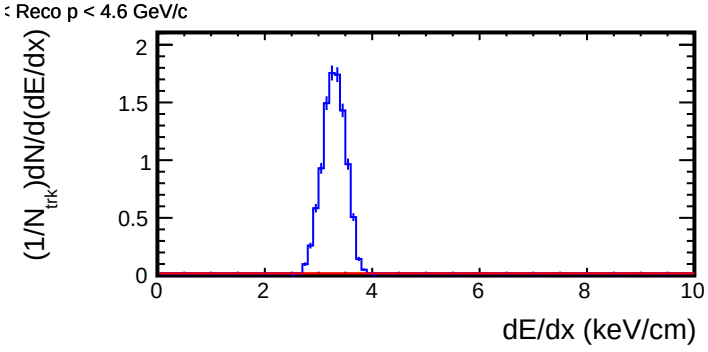
pi-
(PRIMARY, $|n\,\sigma_{pi-}|$<2 TPC)

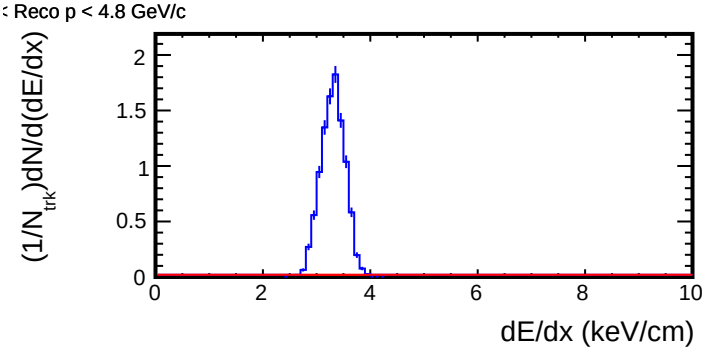
Projection of dE/dx for each p bin

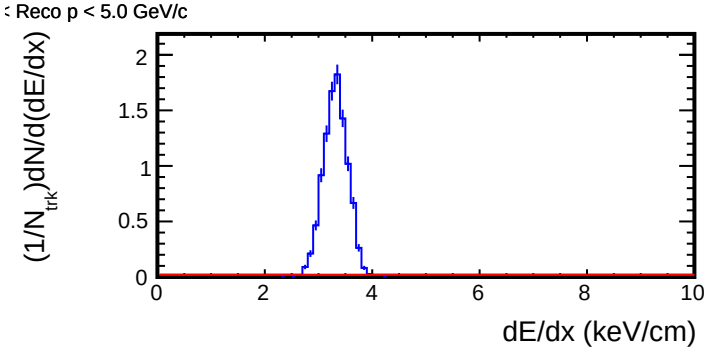








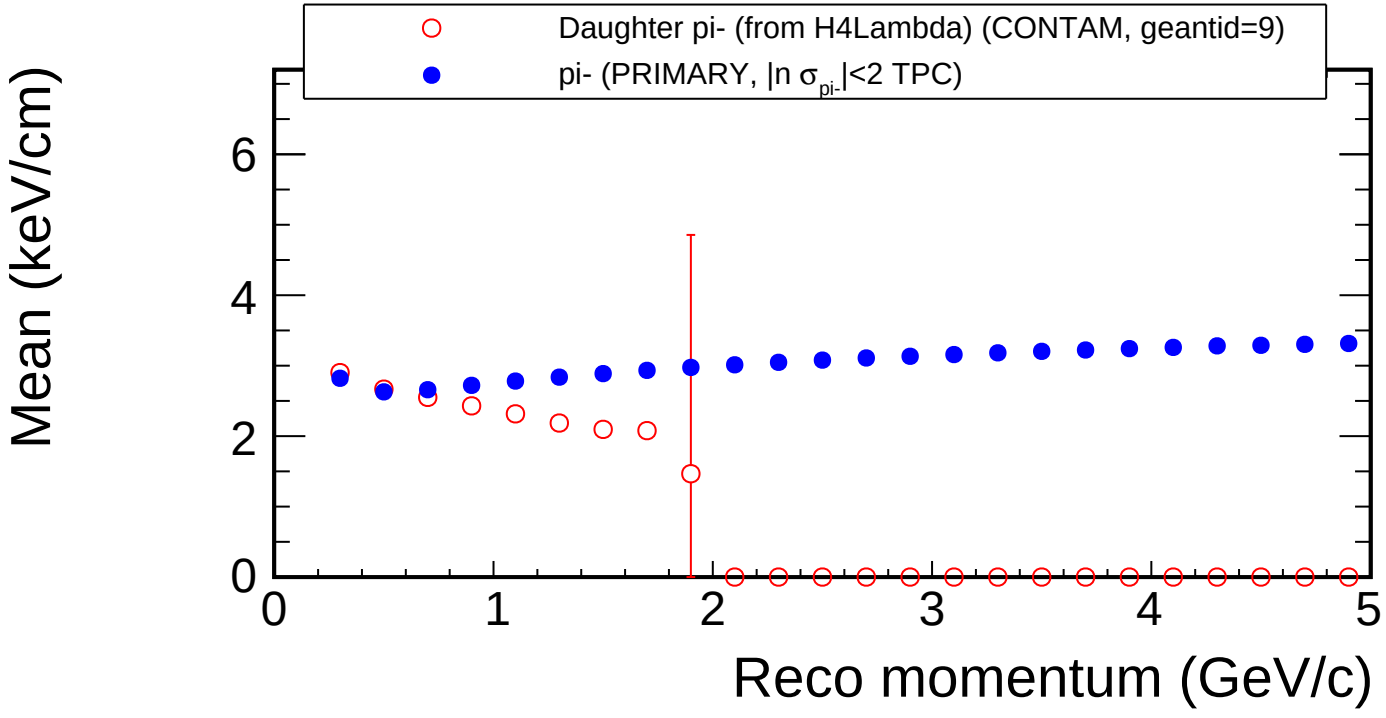


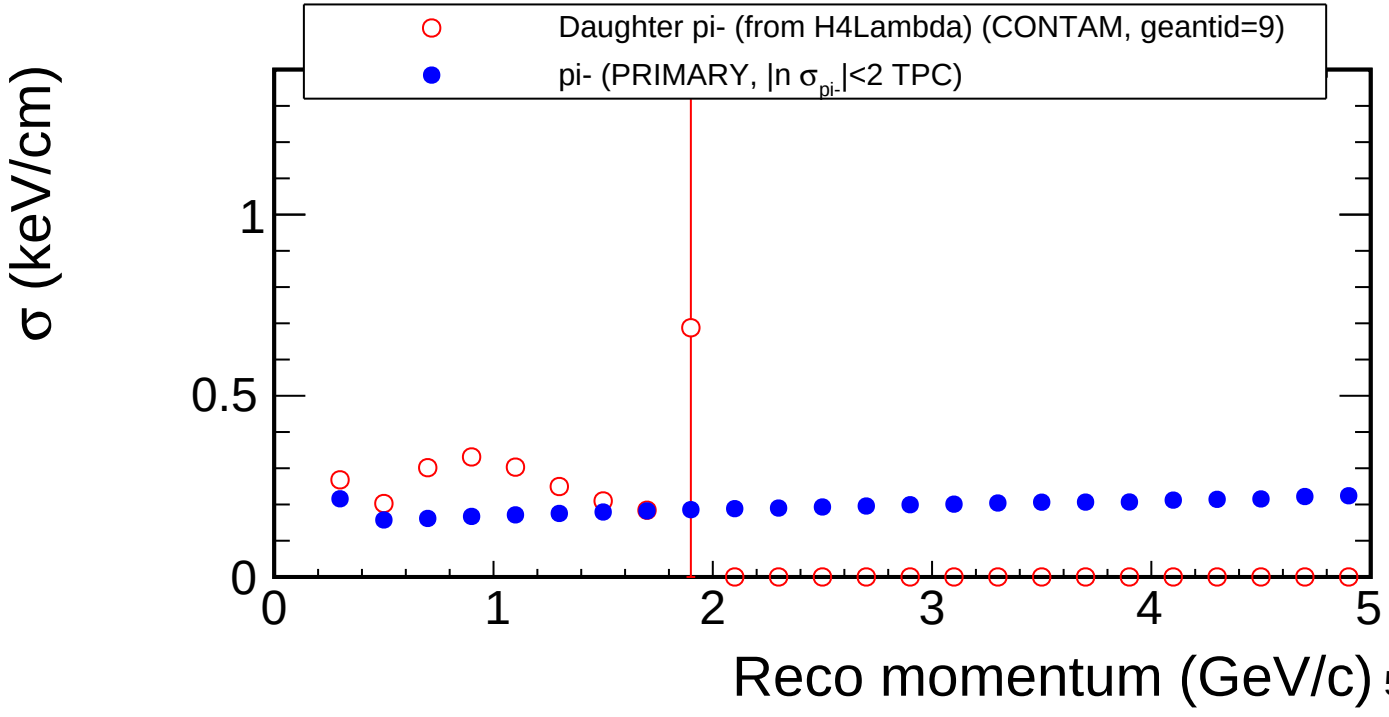


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

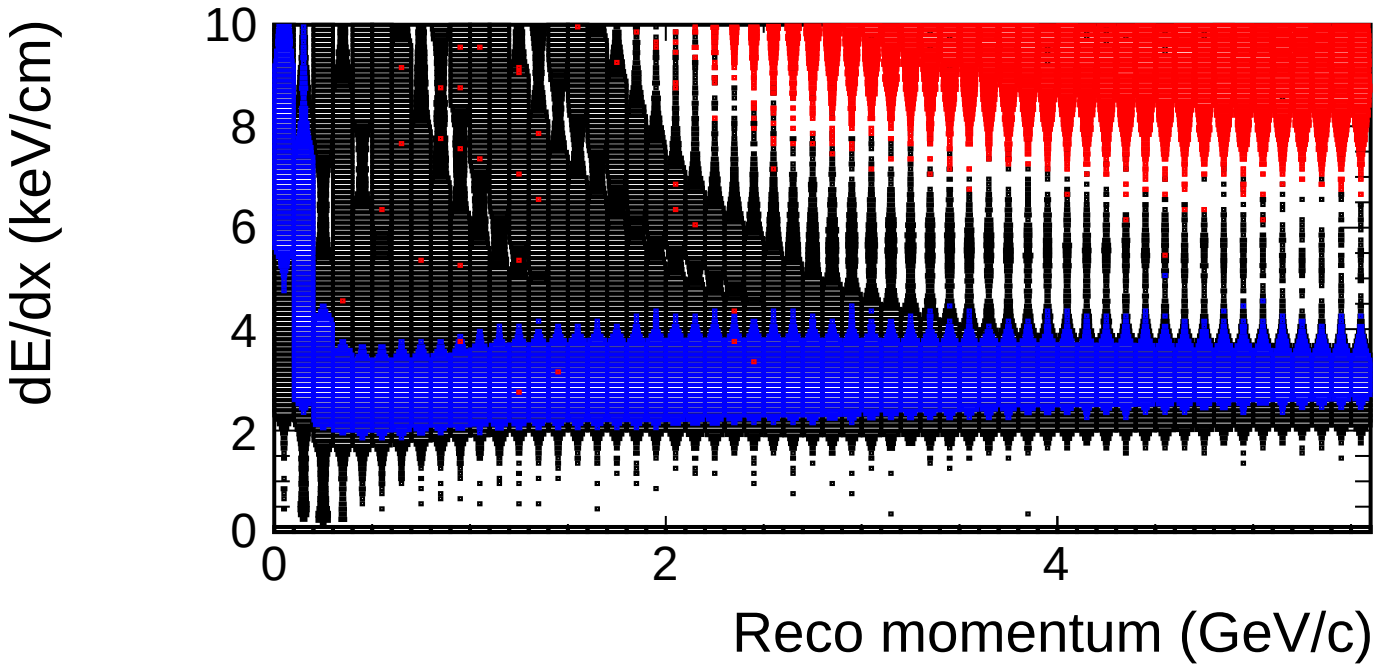
pi-
(PRIMARY, $|n\,\sigma_{pi-}|<2$ TPC)

Mean/σ of dE/dx vs momentum





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

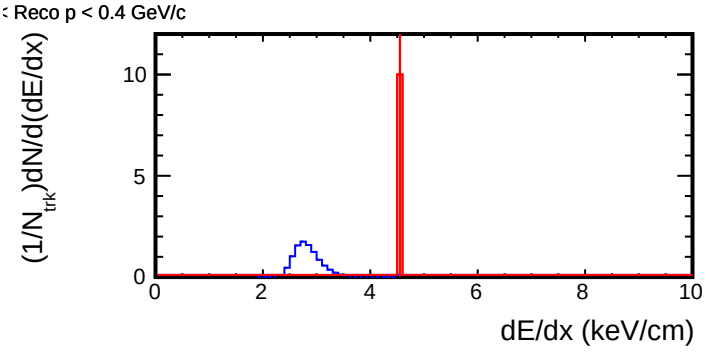


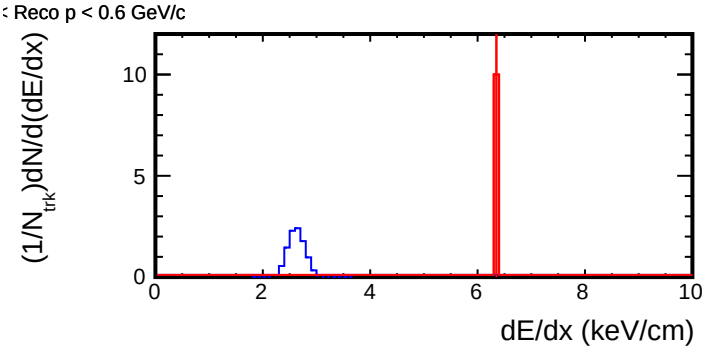
Daughter alpha (from H4Lambda) (CONTAM, geantid=47)

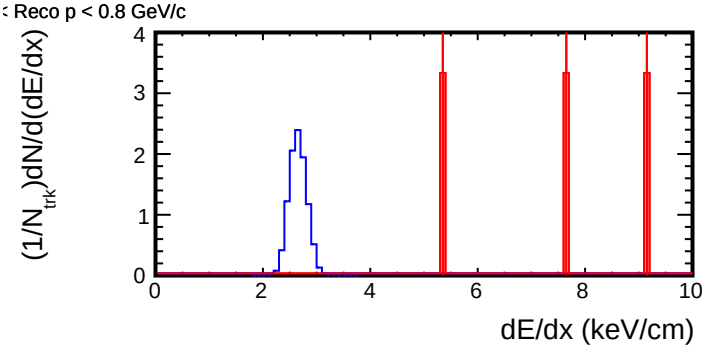
Real data

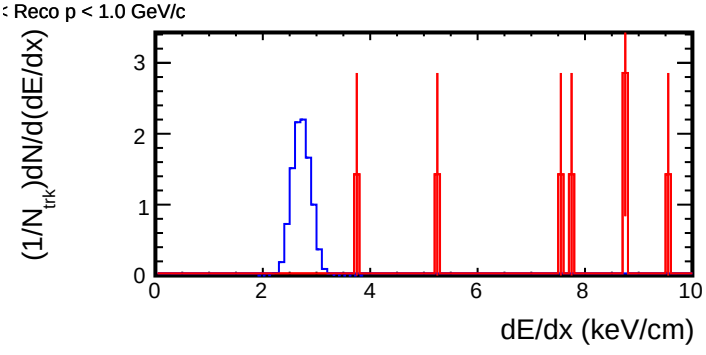
Real data with PID cut (σ<2) TPC

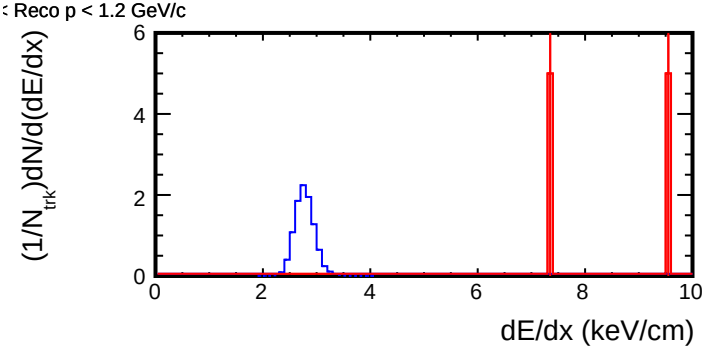
Projection of dE/dx for each p bin

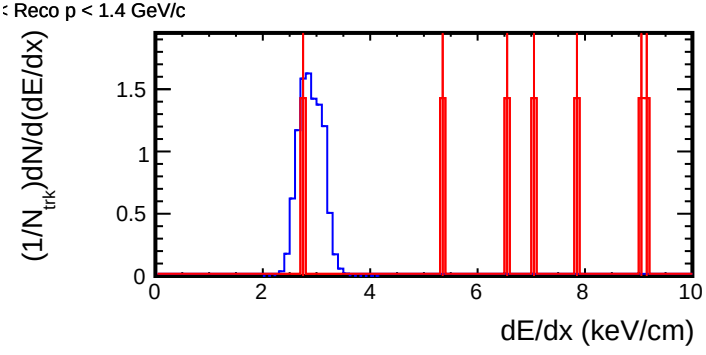








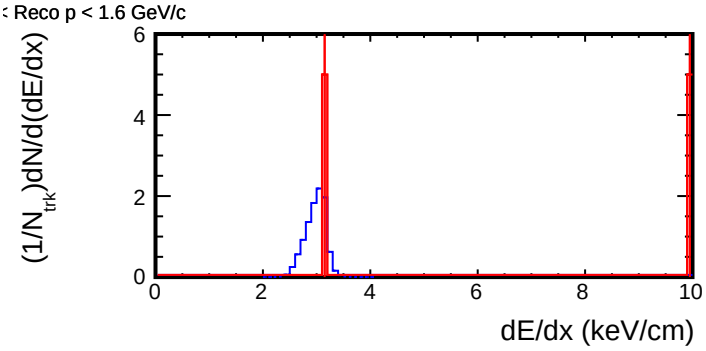


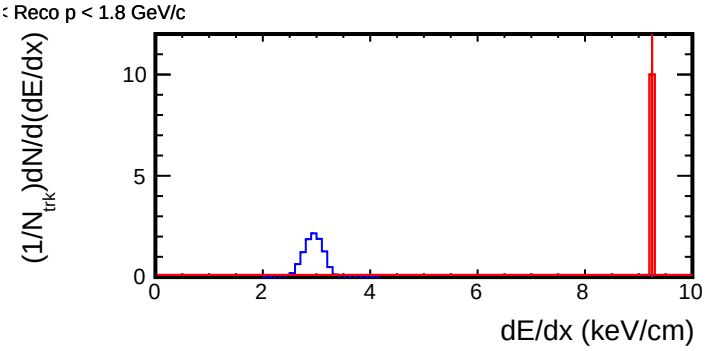


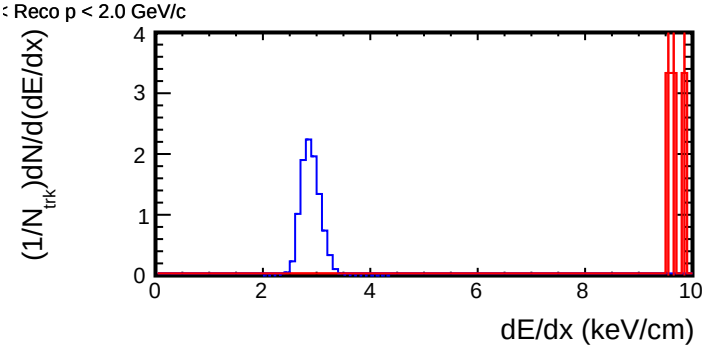
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

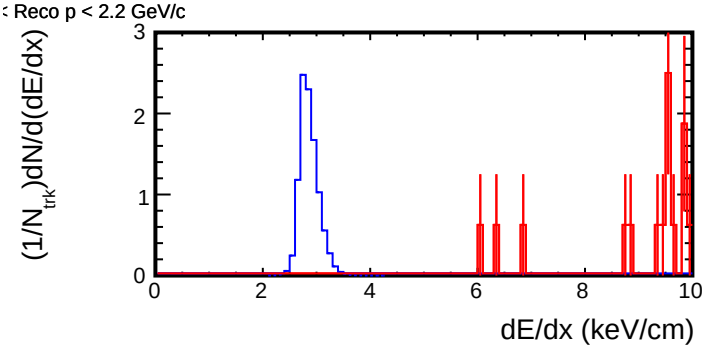
pi+
(PRIMARY, $|n\,\sigma_{pi+}|$<2 TPC)

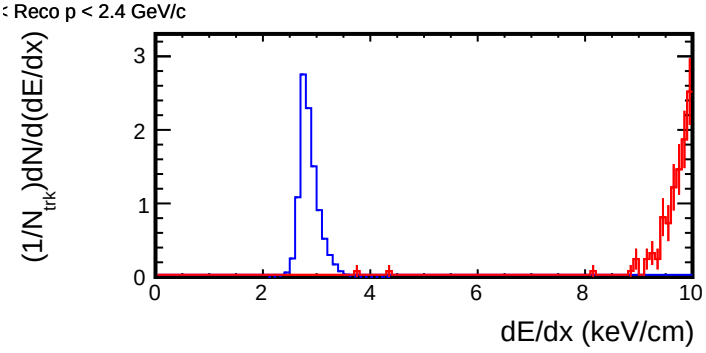
Projection of dE/dx for each p bin

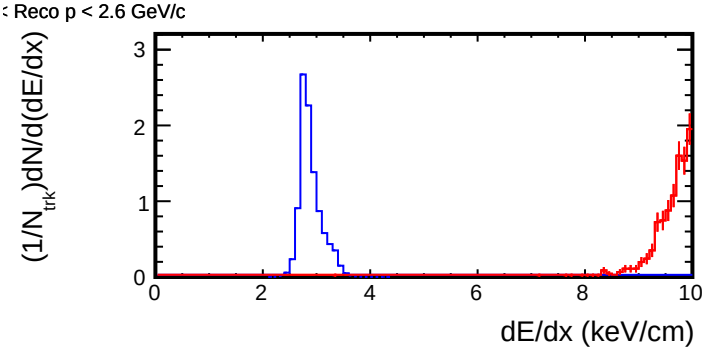








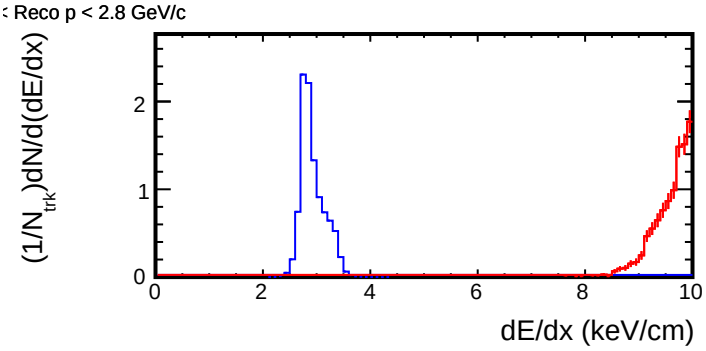


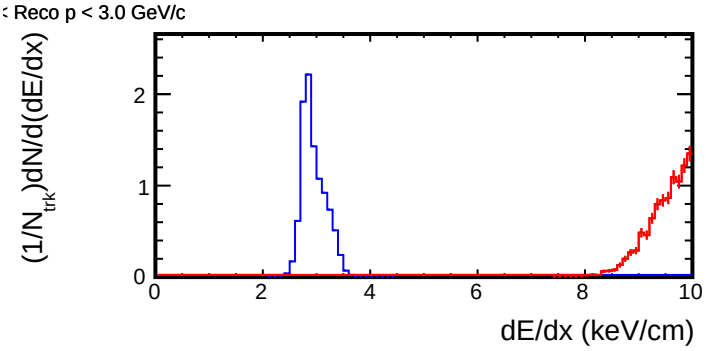


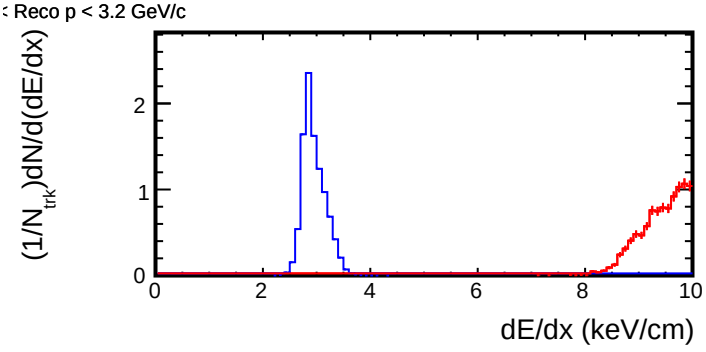
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

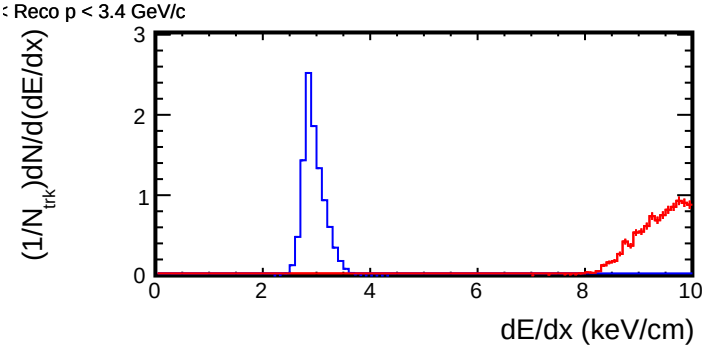
pi+
(PRIMARY, $|n\,\sigma_{pi+}|$<2 TPC)

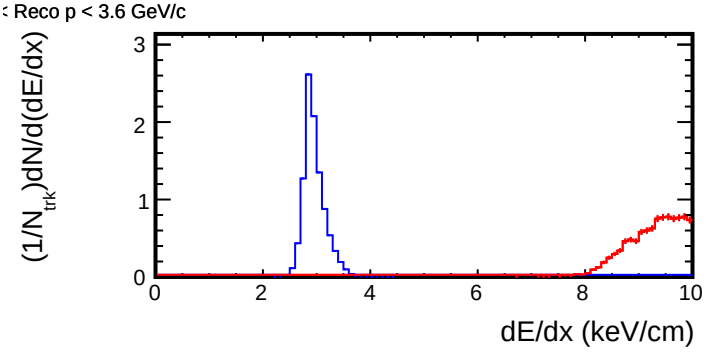
Projection of dE/dx for each p bin

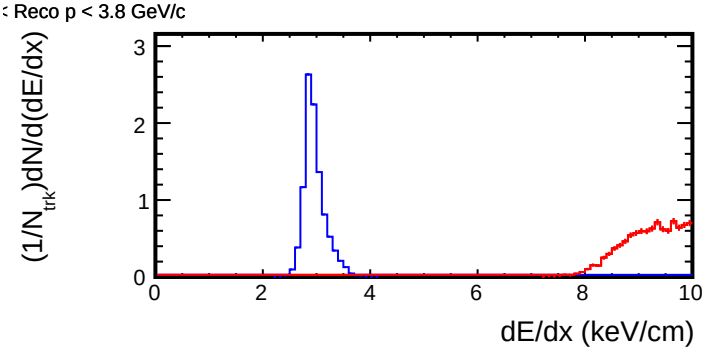








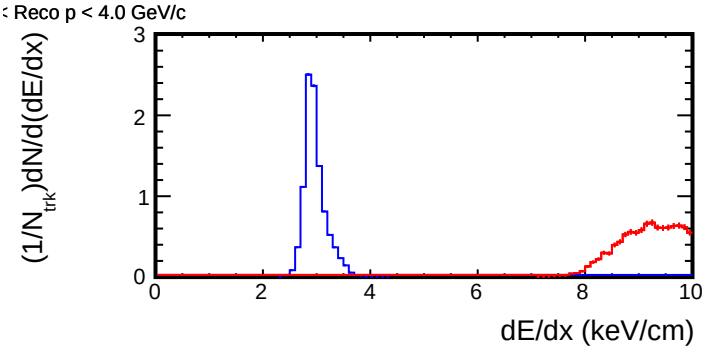


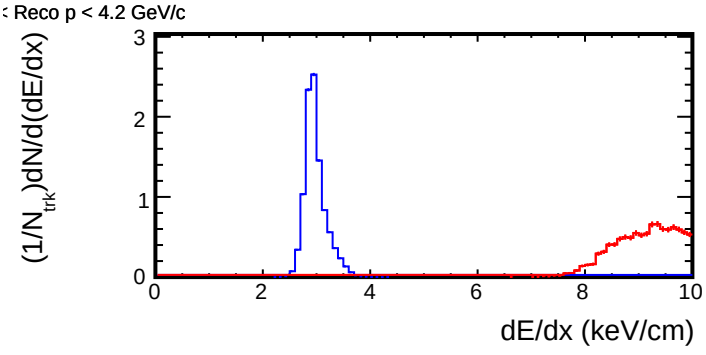


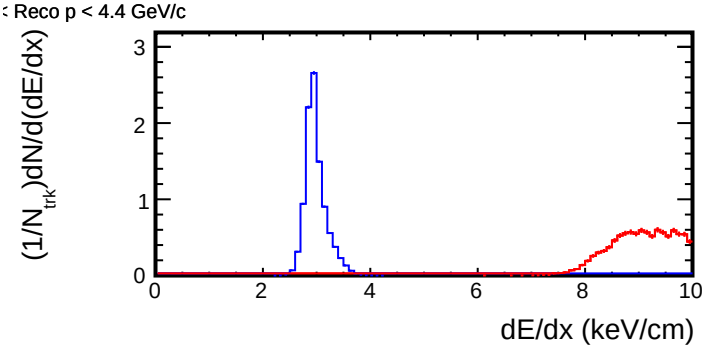
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

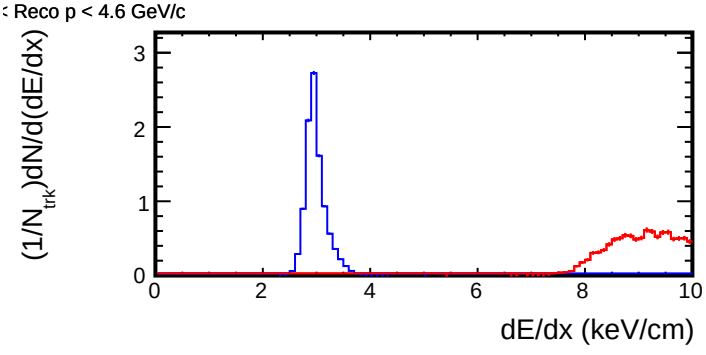
pi+
(PRIMARY, $|n\,\sigma_{pi+}|$<2 TPC)

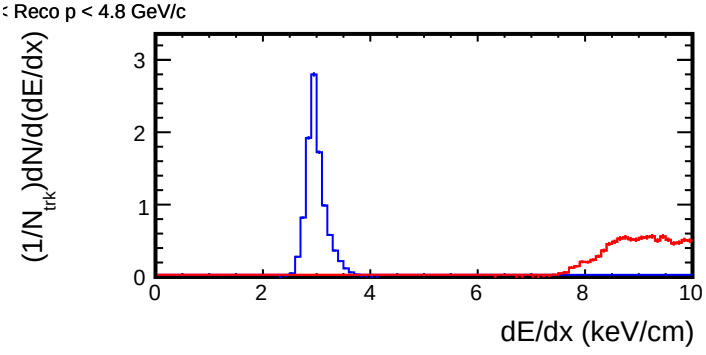
Projection of dE/dx for each p bin

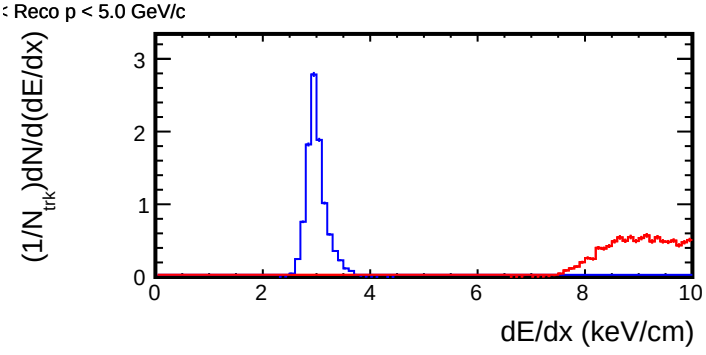








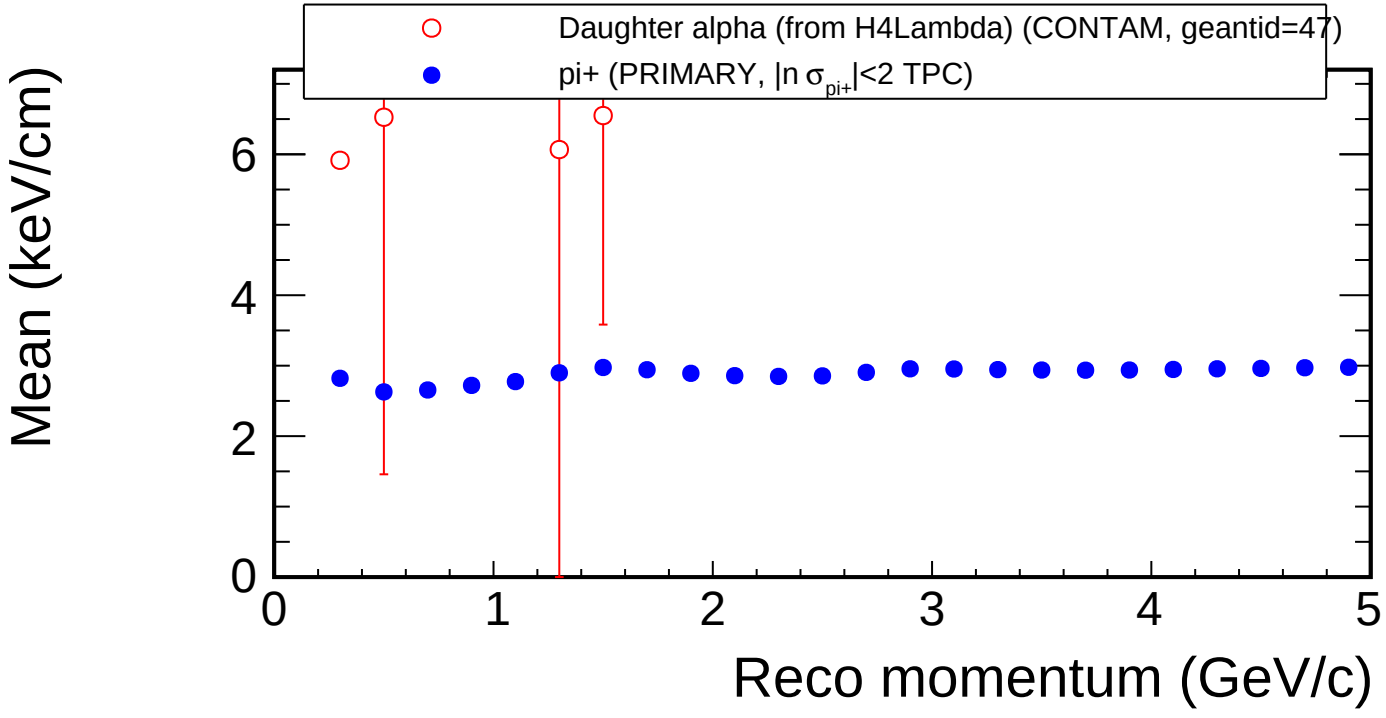


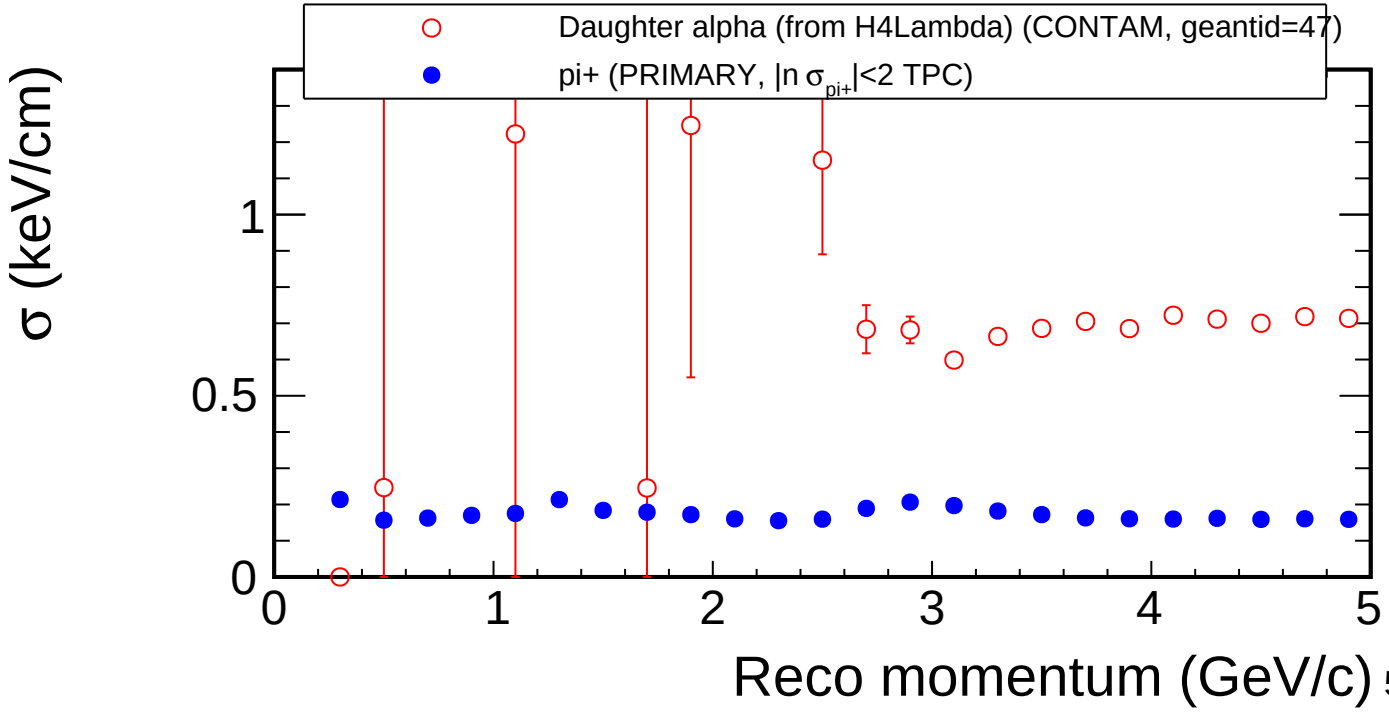


Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

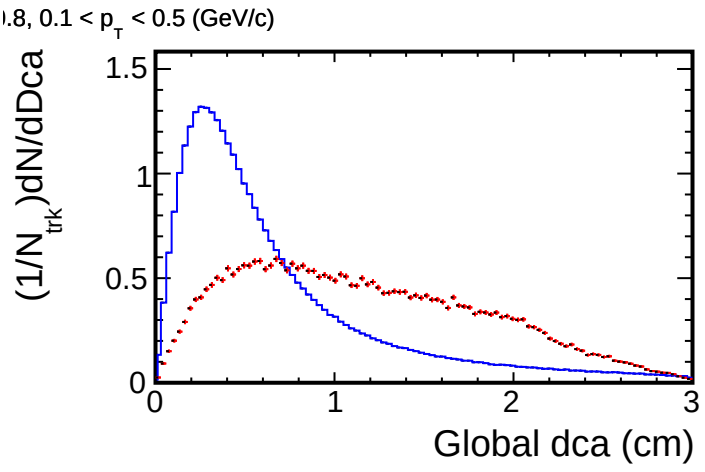
pi+
(PRIMARY, $|n\,\sigma_{pi+}|$<2 TPC)

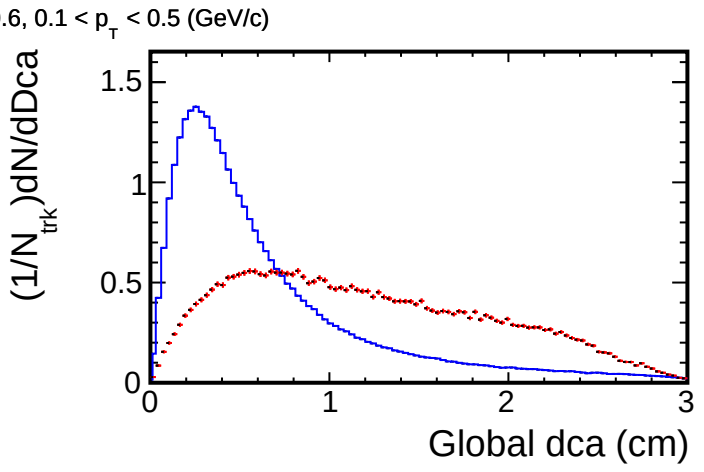
Mean/σ of dE/dx vs momentum

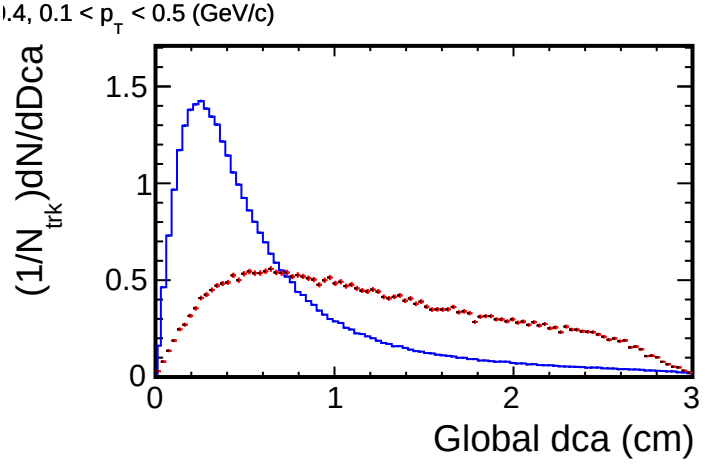


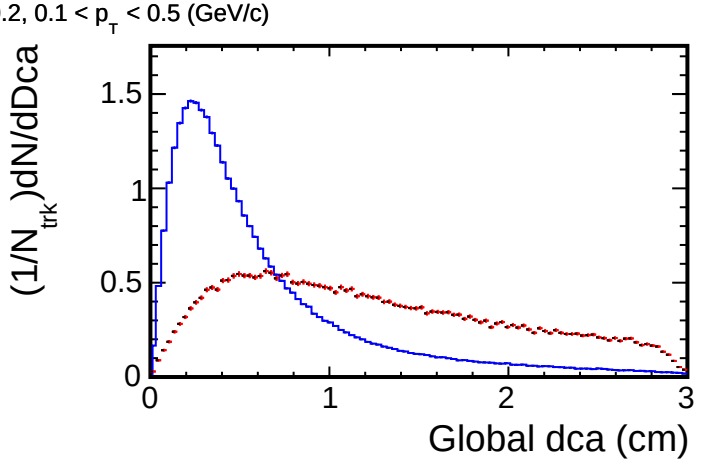


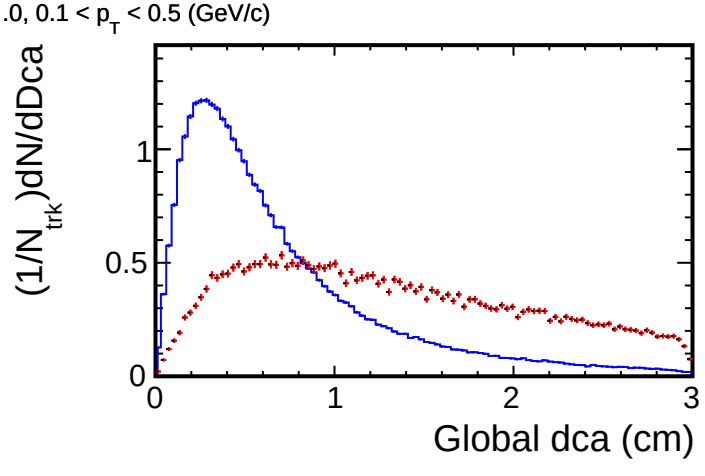
Dca distribution for (p_T, η) slices







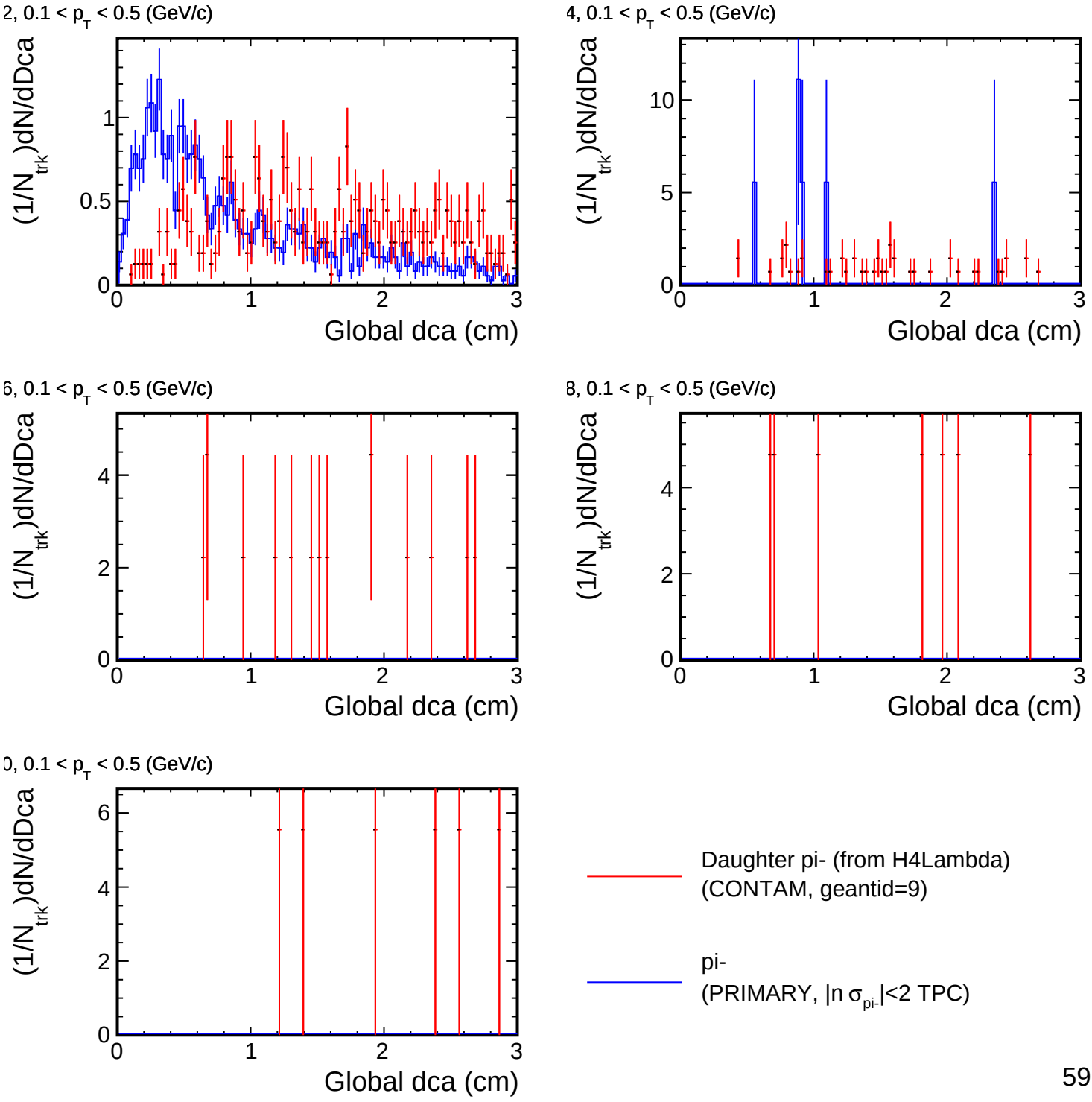




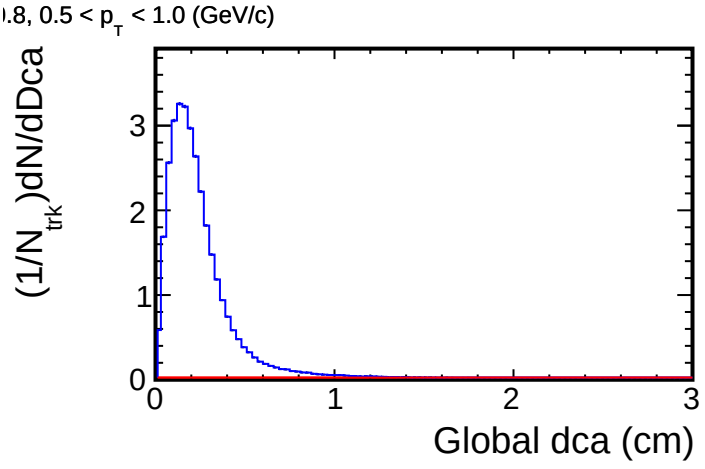
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

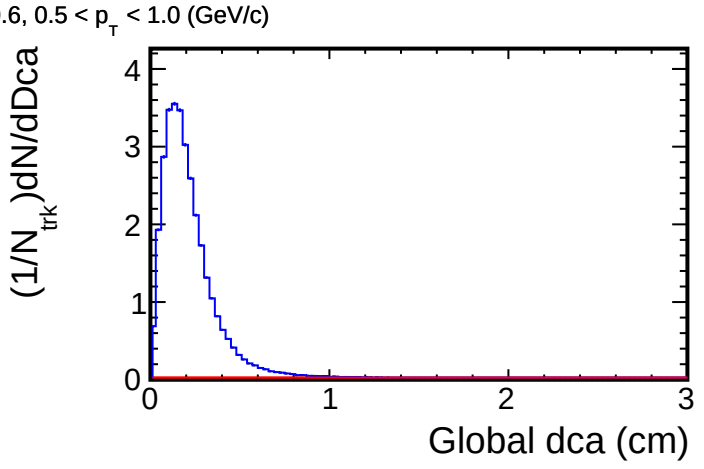
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

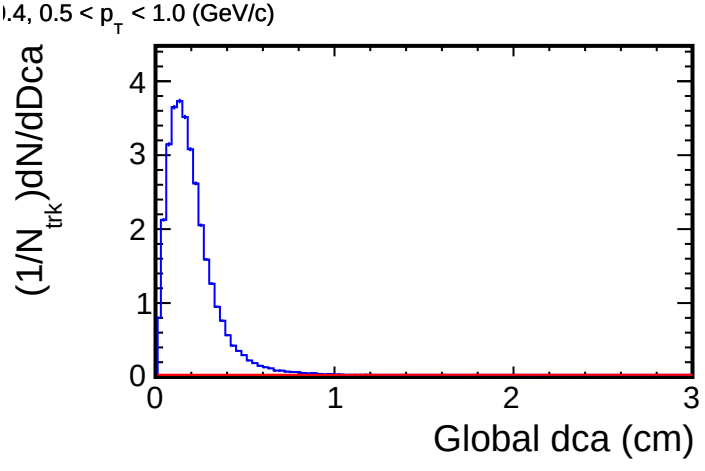
Dca distribution for (p_T, η) slices

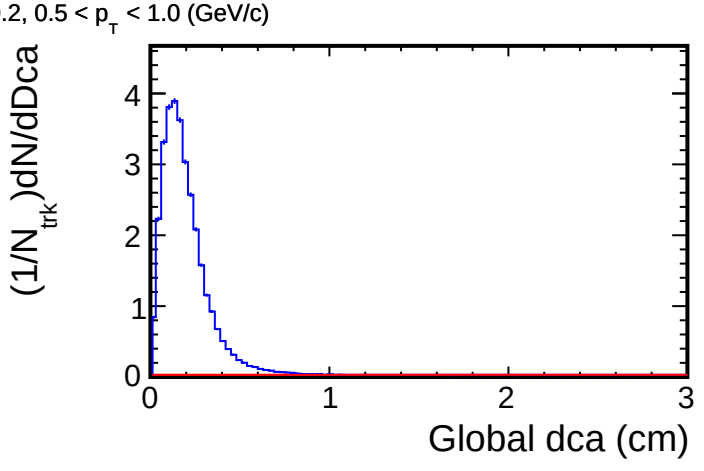


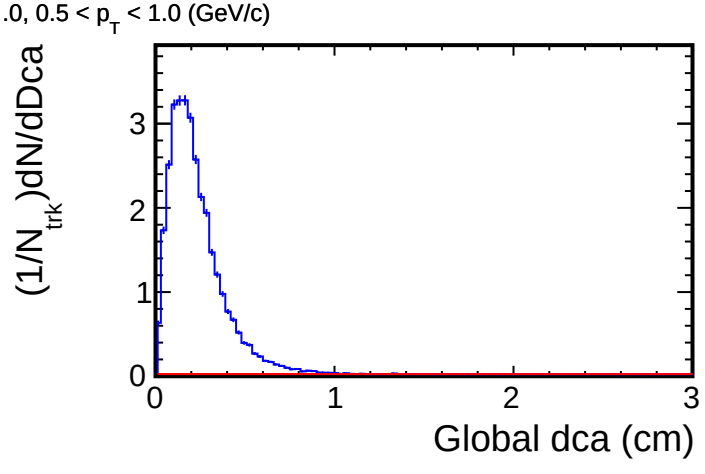
Dca distribution for (p_T, η) slices







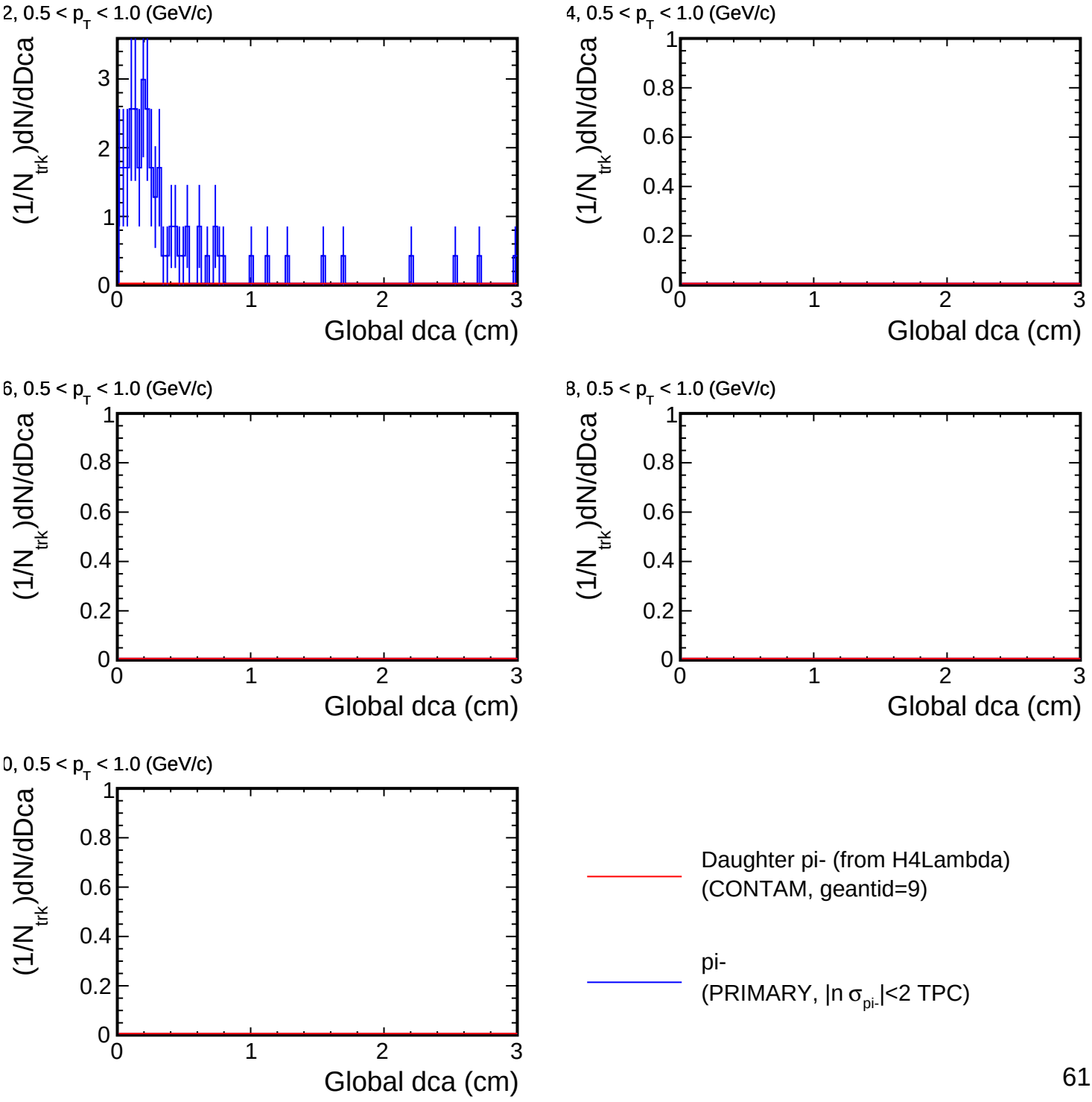




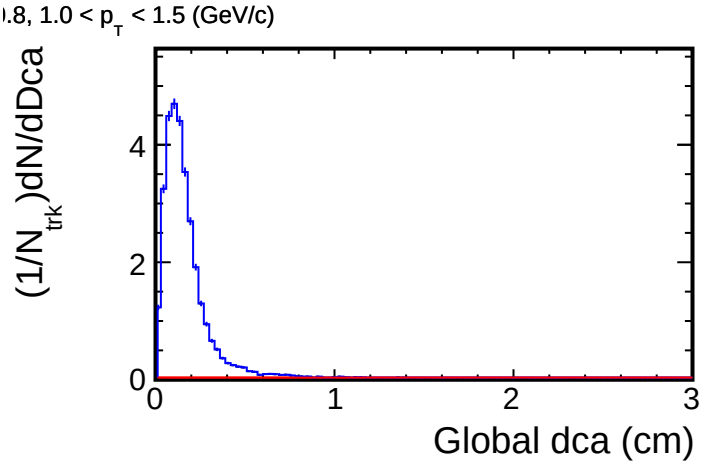
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

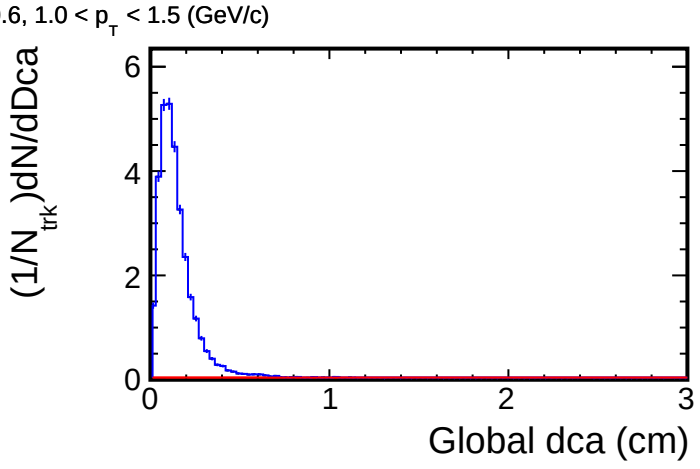
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

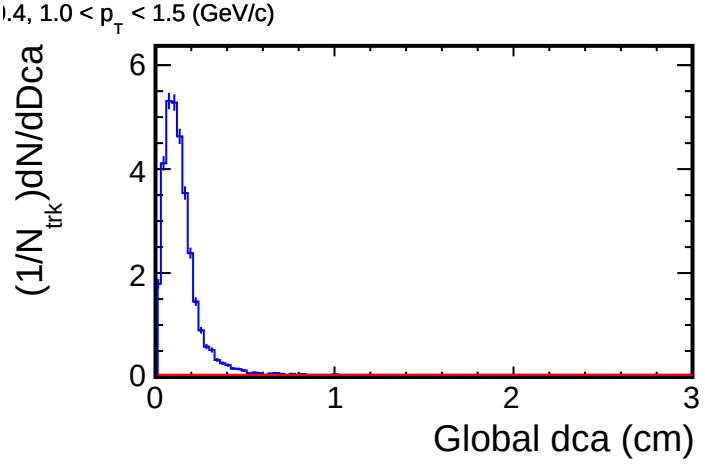
Dca distribution for (p_T, η) slices

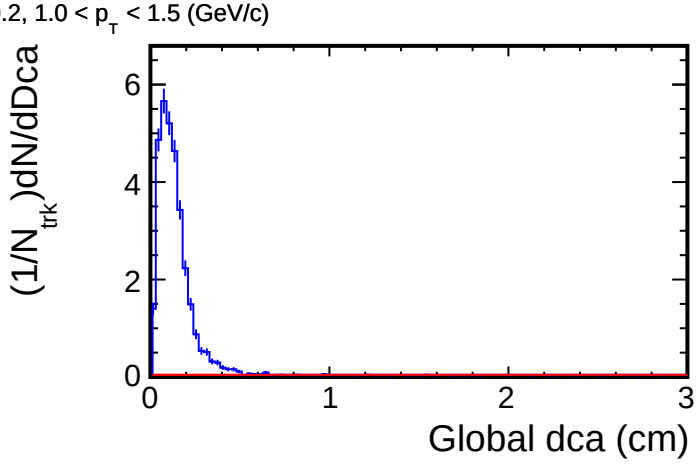


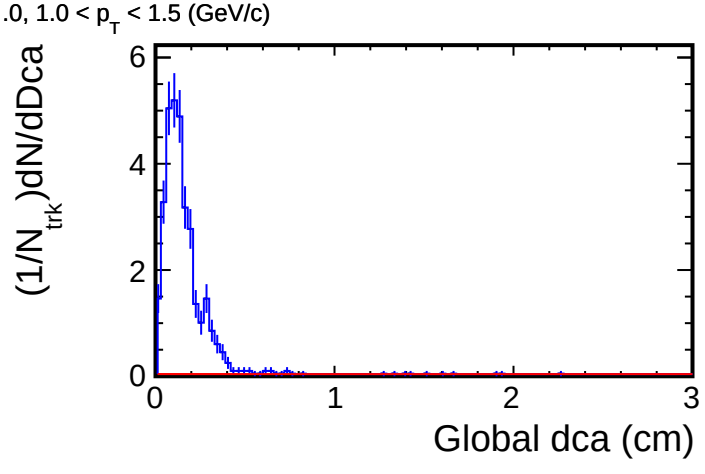
Dca distribution for (p_T, η) slices







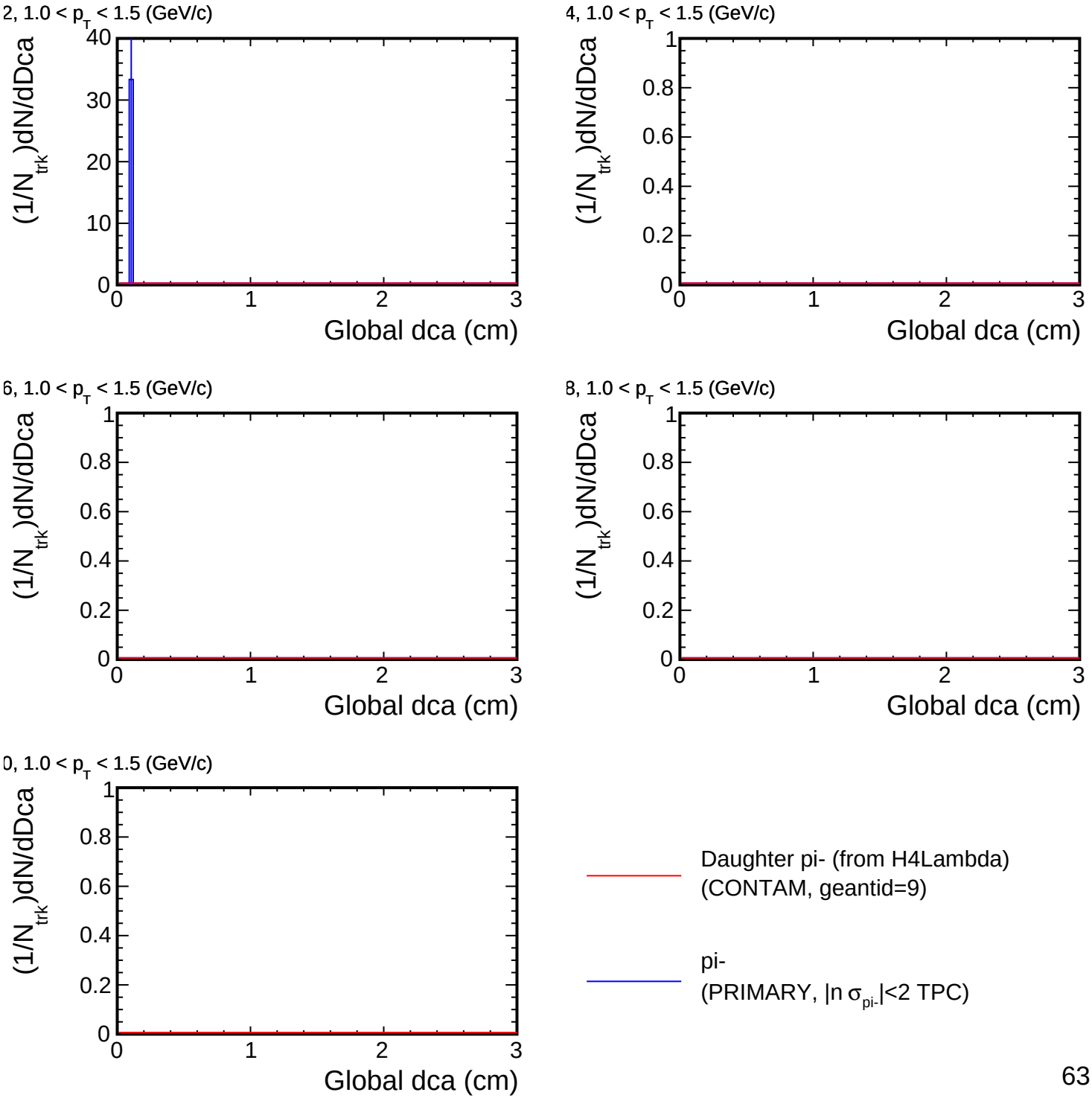




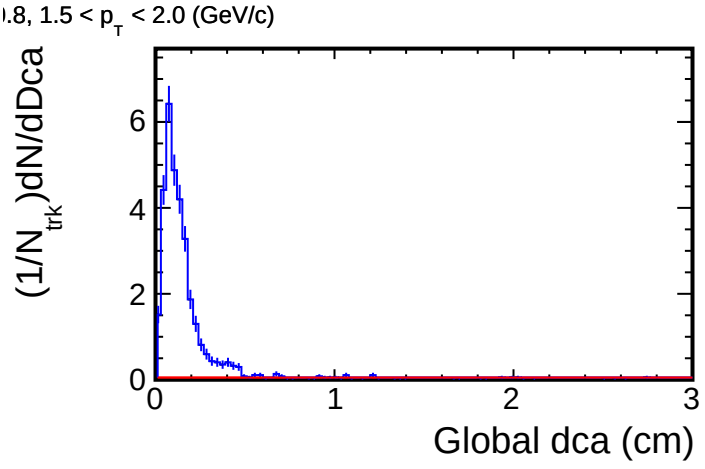
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

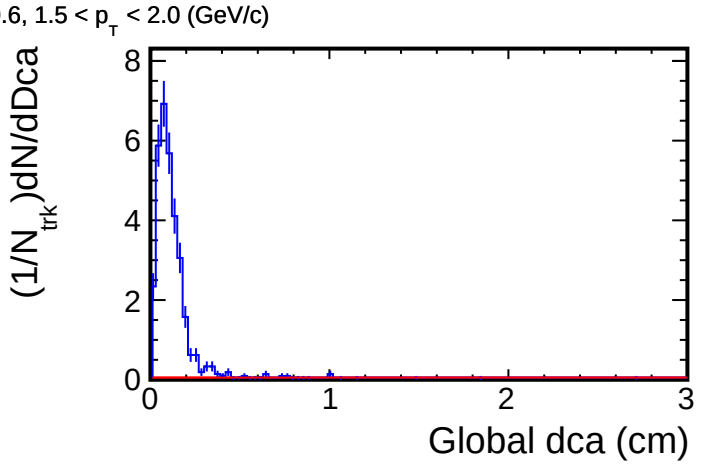
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

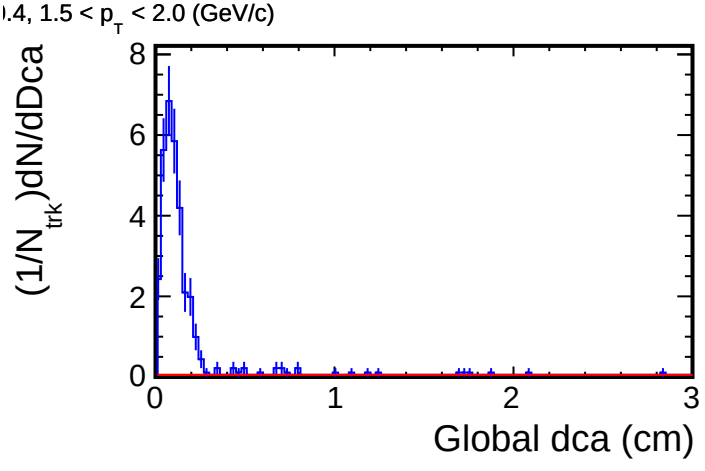
Dca distribution for (p_T, η) slices

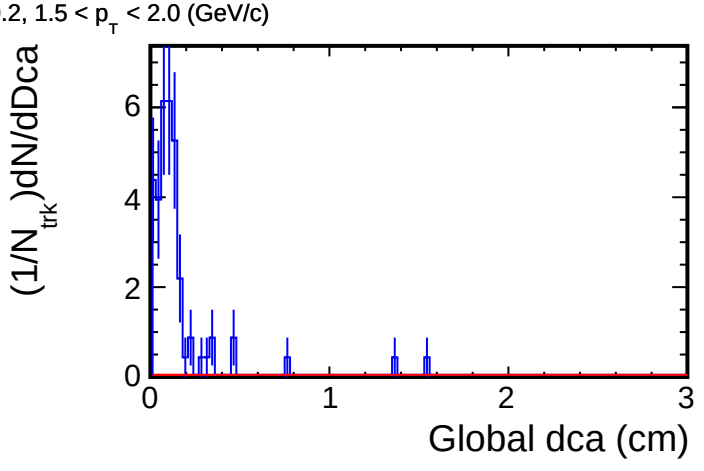


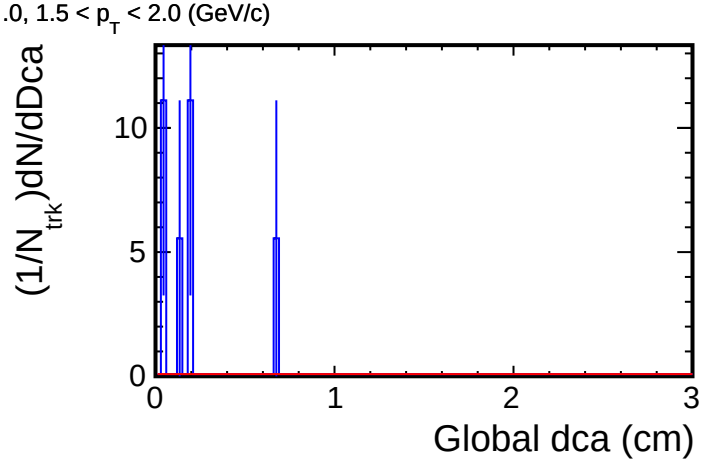
Dca distribution for (p_T, η) slices









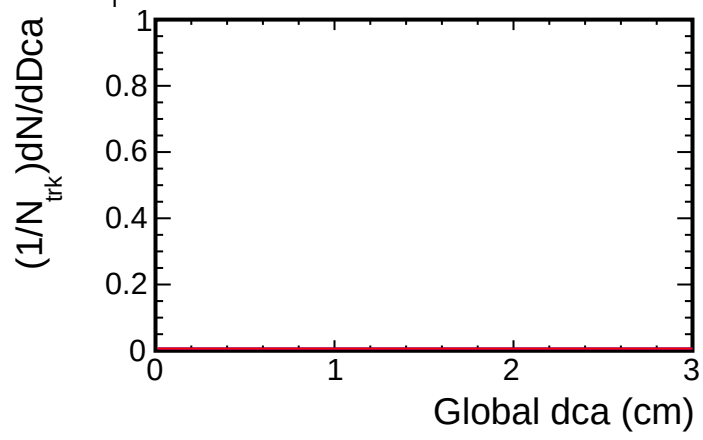


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

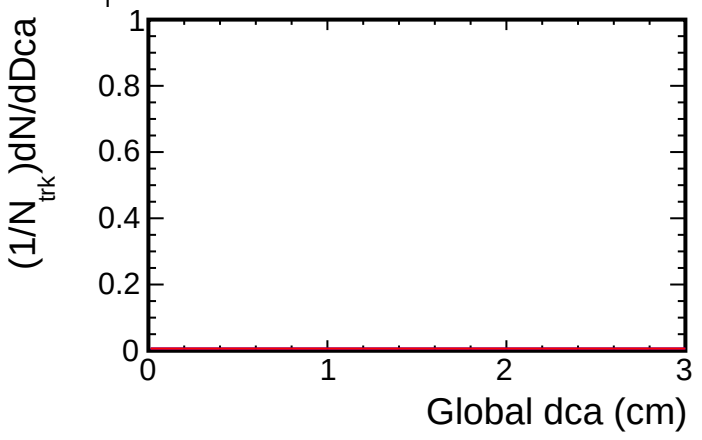
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

Dca distribution for (p_T, η) slices

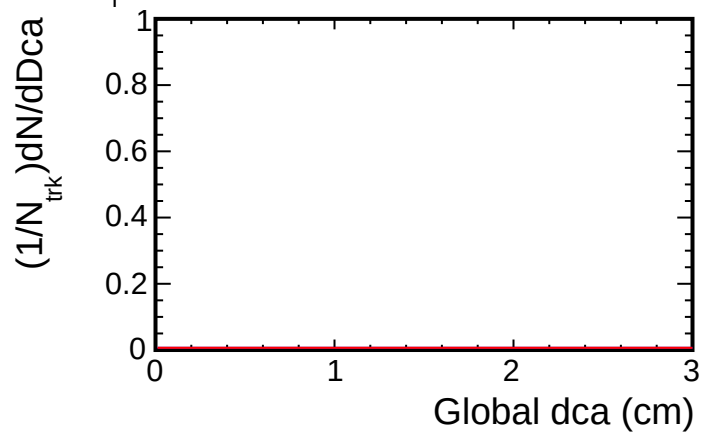
2, 1.5 < p_T < 2.0 (GeV/c)



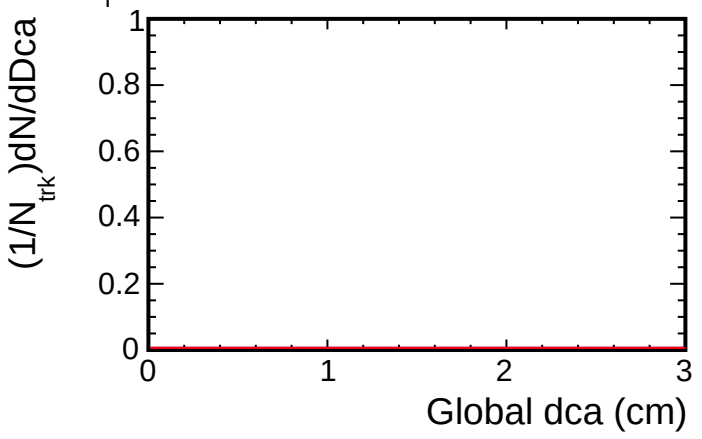
4, 1.5 < p_T < 2.0 (GeV/c)



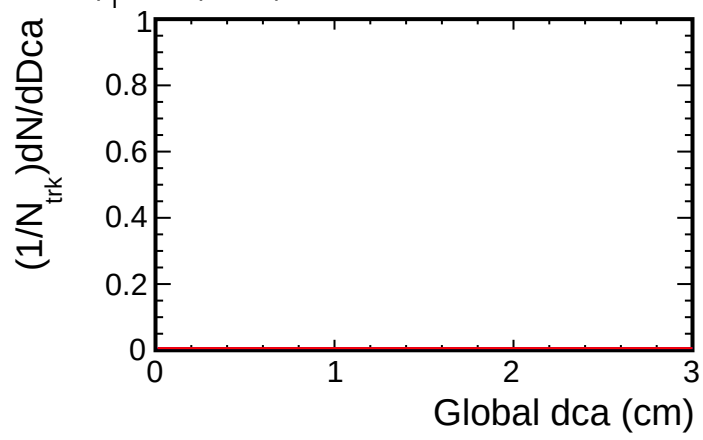
6, 1.5 < p_T < 2.0 (GeV/c)



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



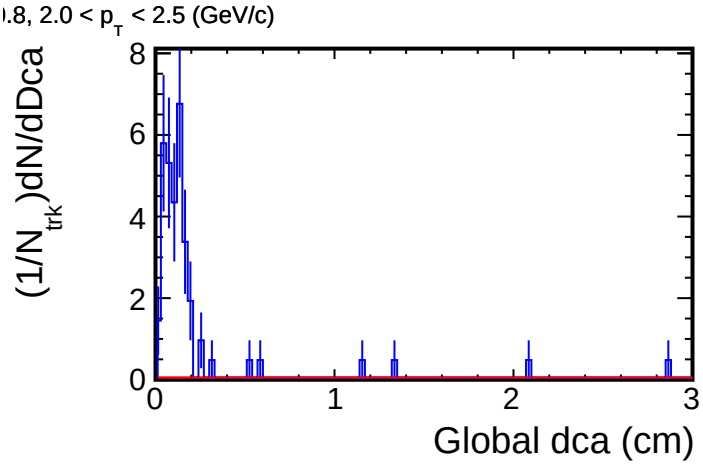
0, 1.5 < p_T < 2.0 (GeV/c)

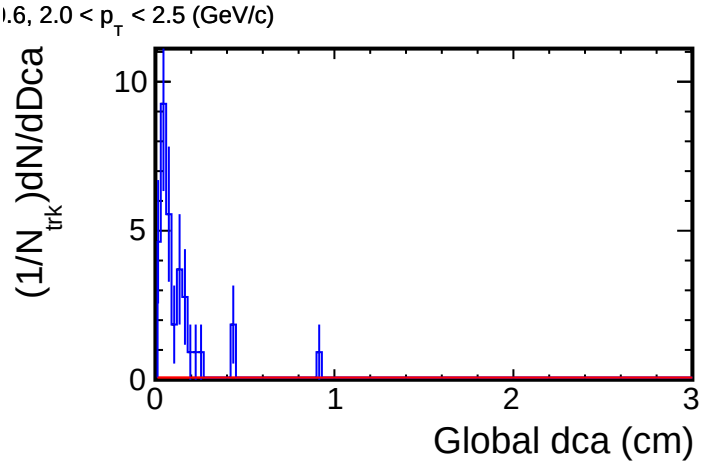


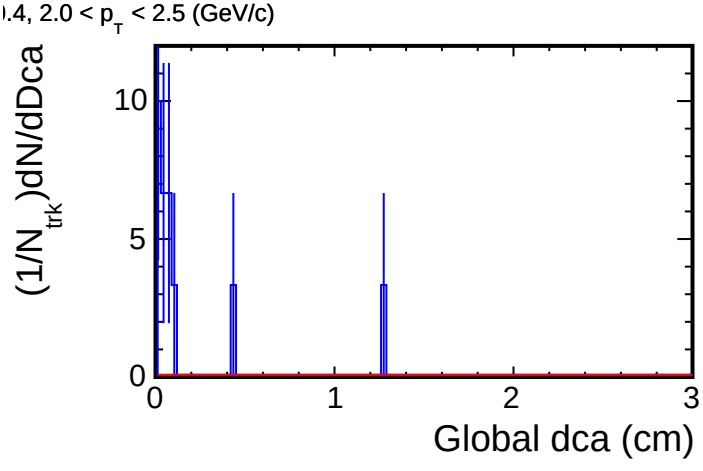
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

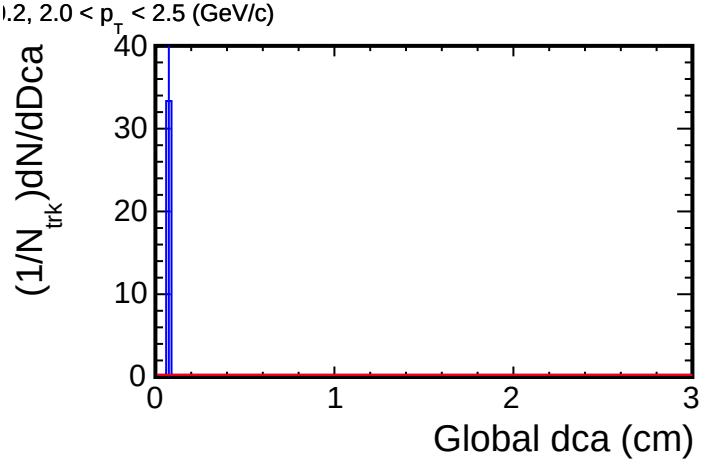
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

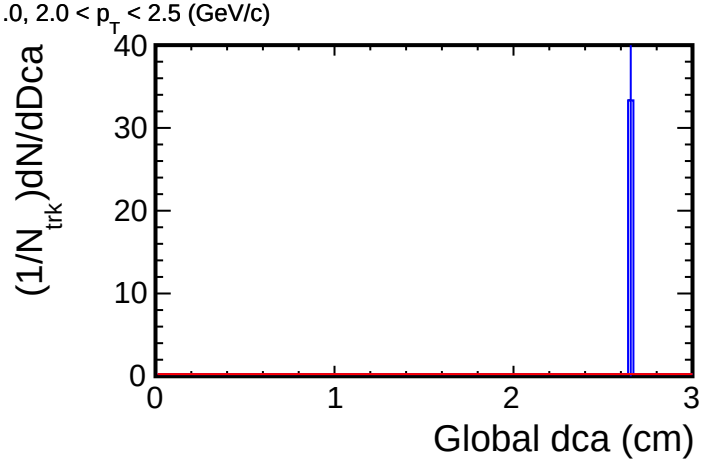
Dca distribution for (p_T, η) slices







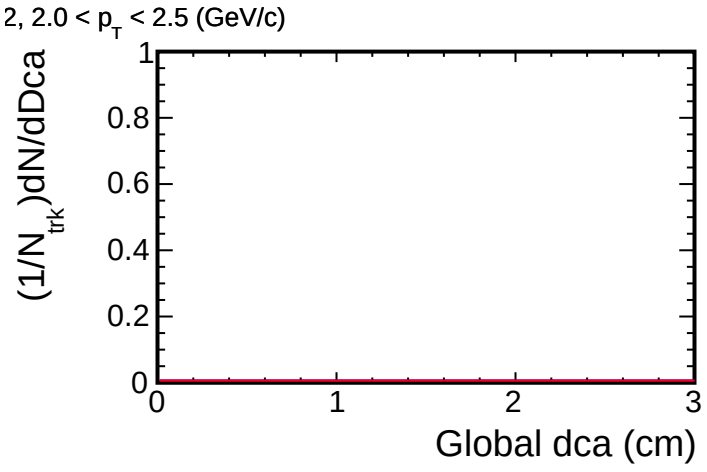


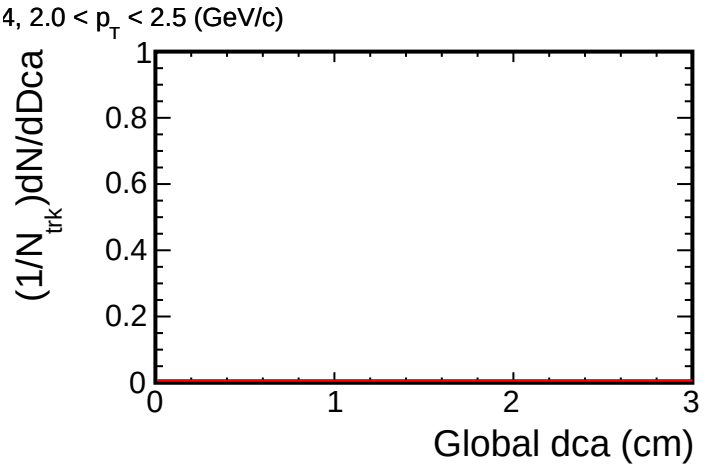


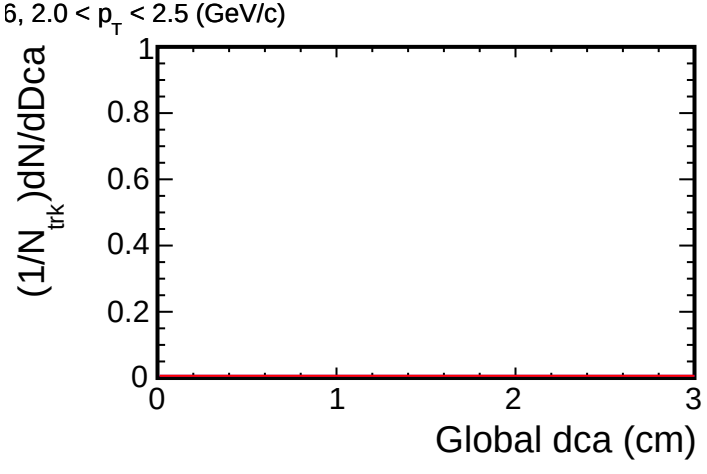
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

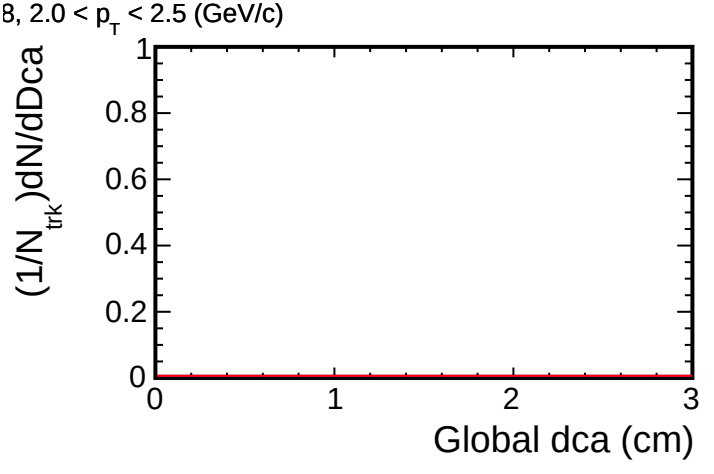
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

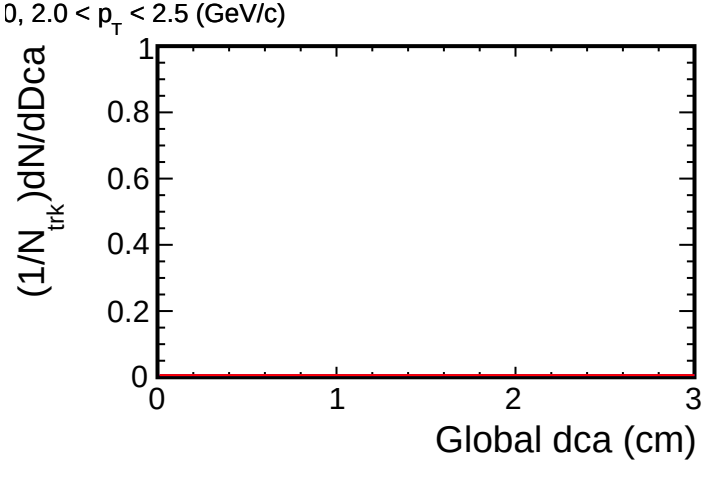
Dca distribution for (p_T, η) slices







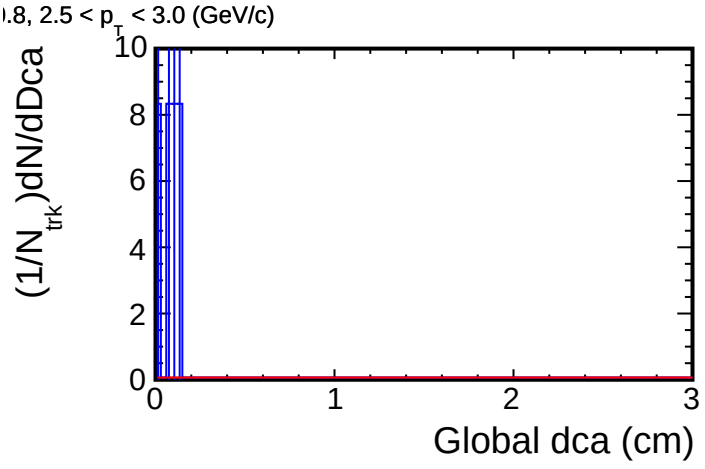


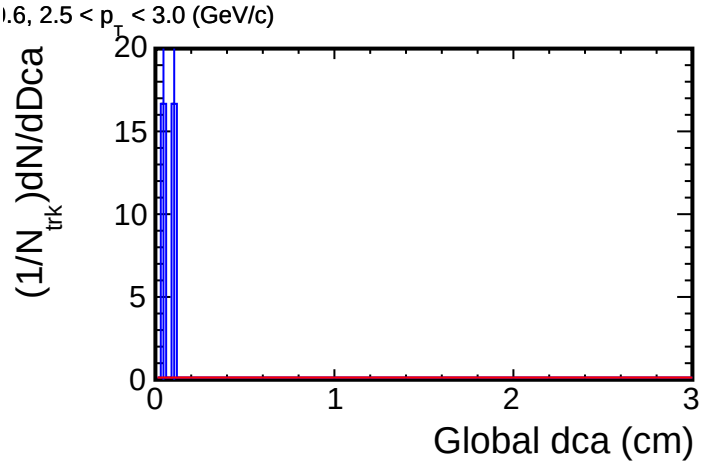


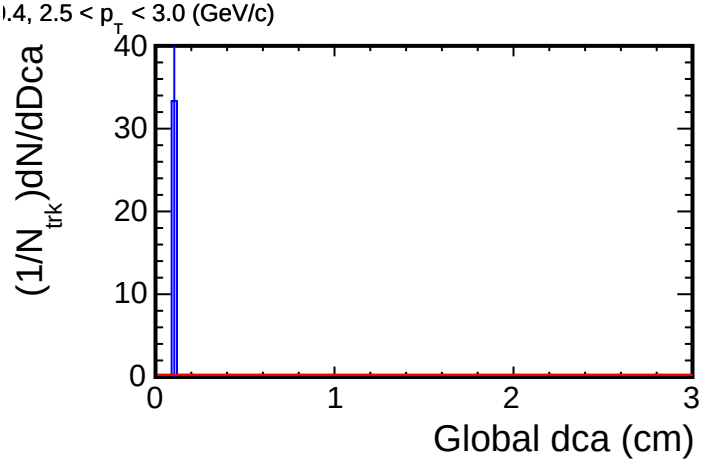
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

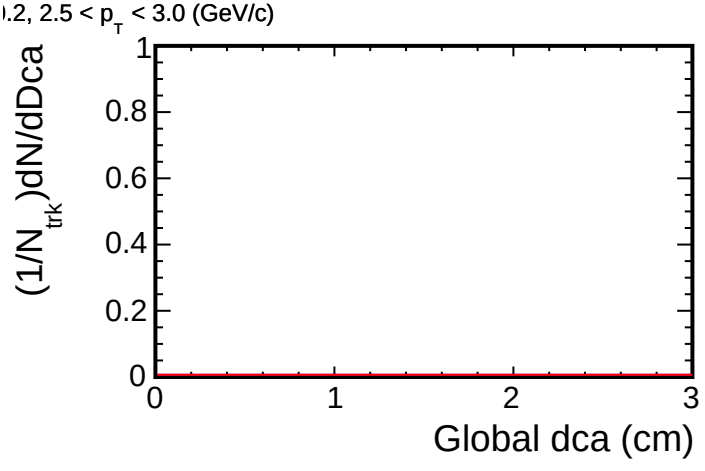
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

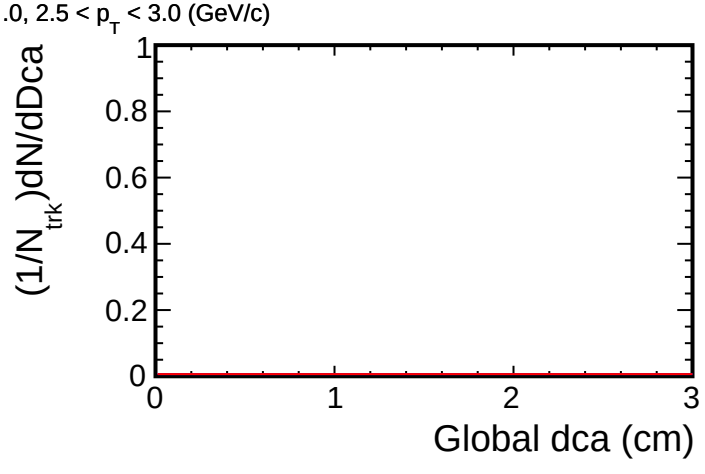
Dca distribution for (p_T, η) slices







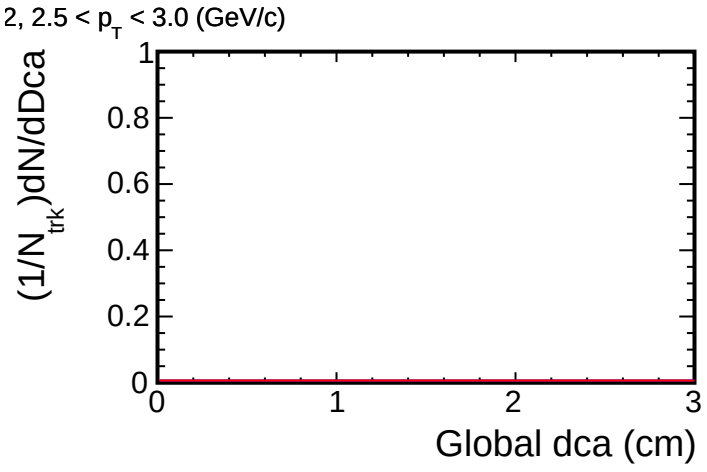


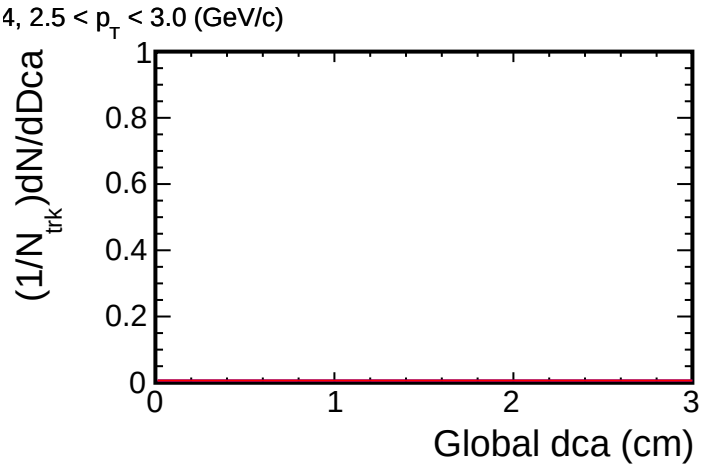


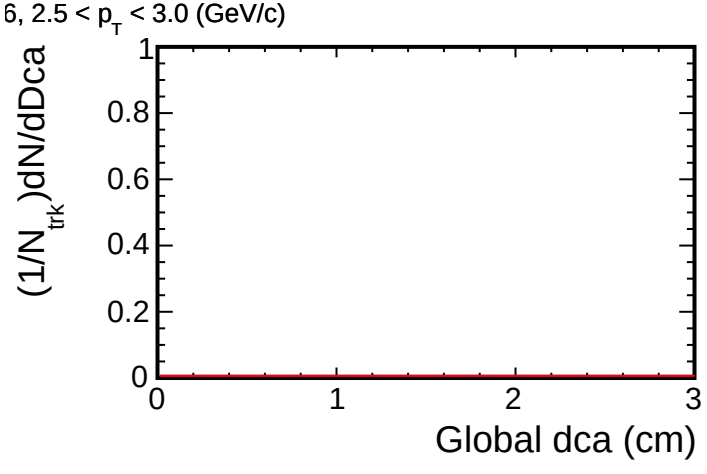
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

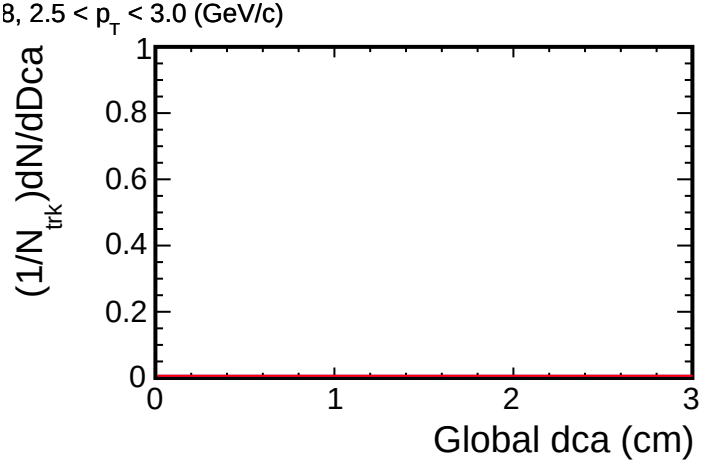
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

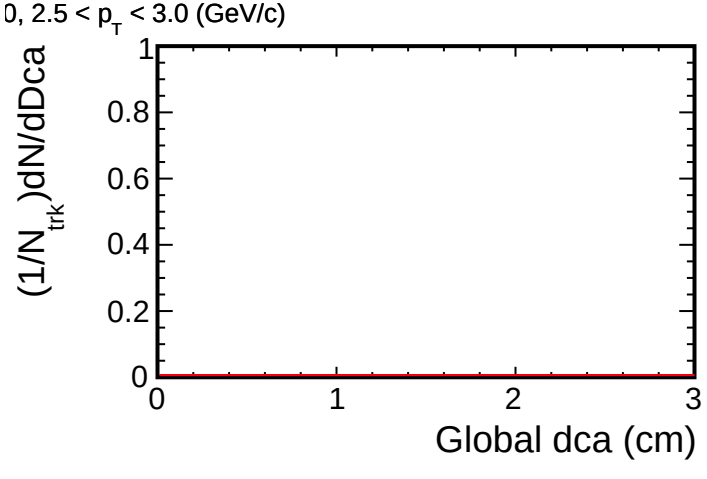
Dca distribution for (p_T, η) slices







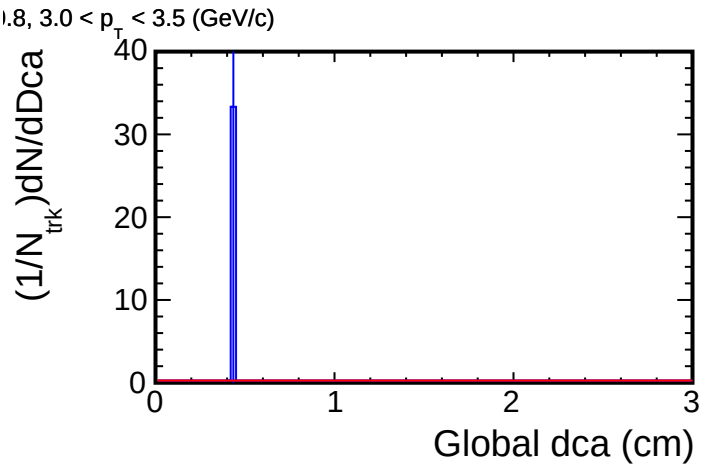


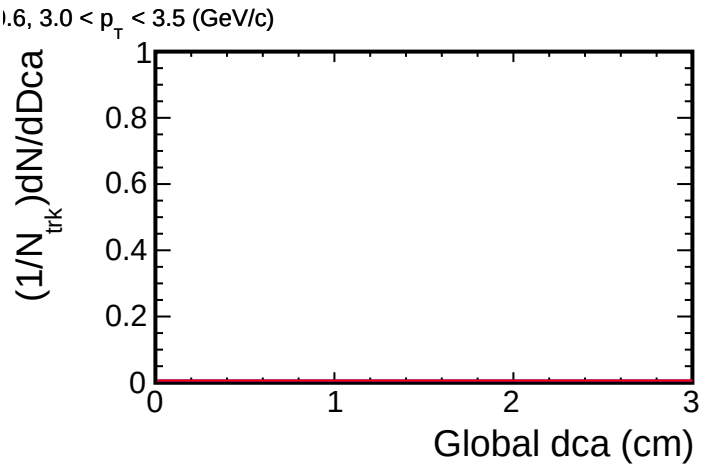


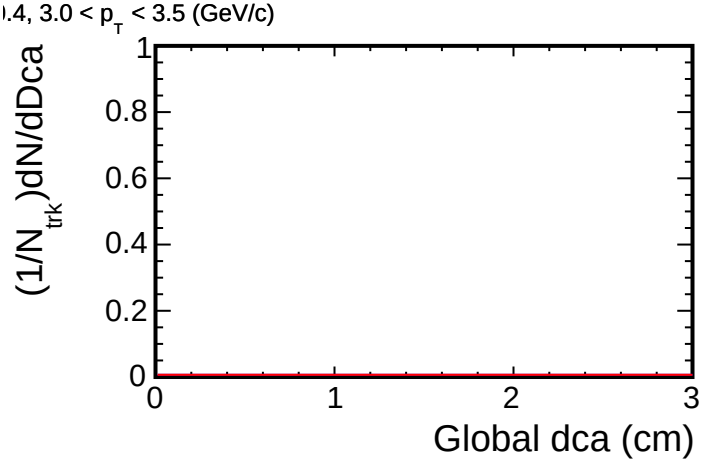
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

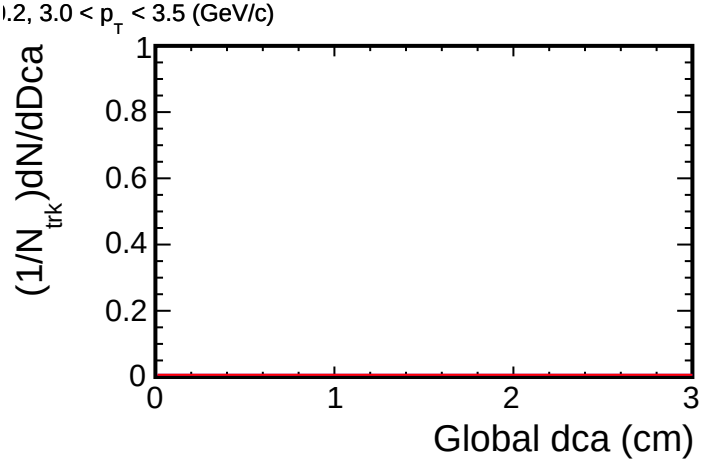
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

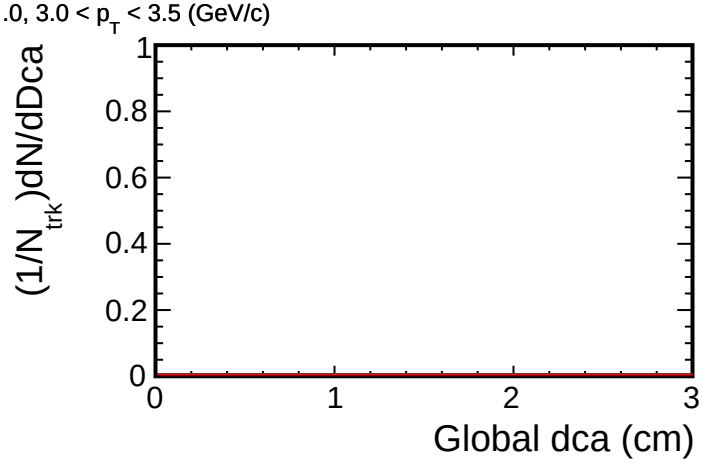
Dca distribution for (p_T, η) slices









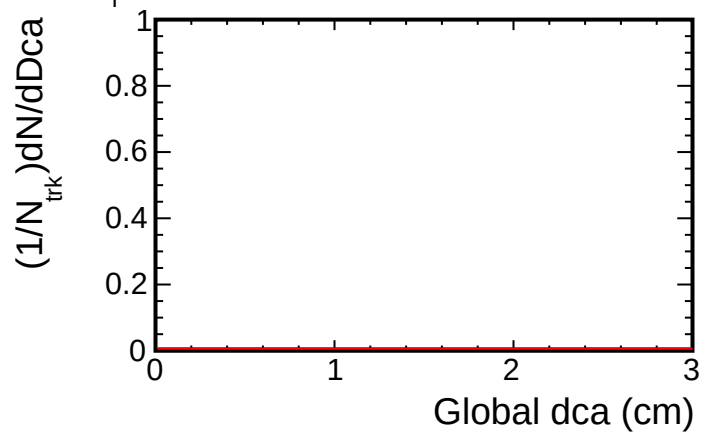


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

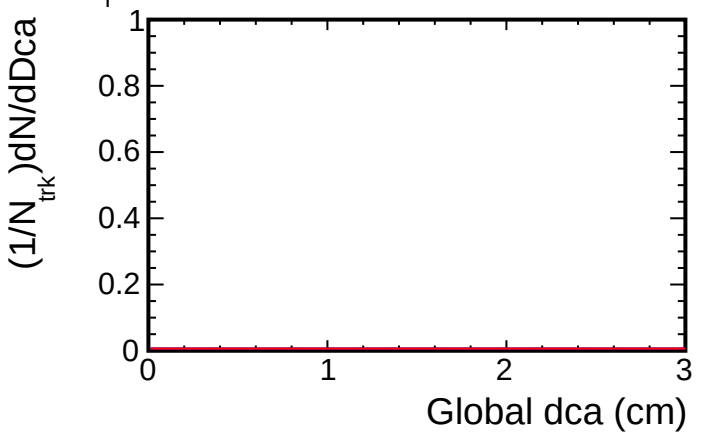
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

Dca distribution for (p_T, η) slices

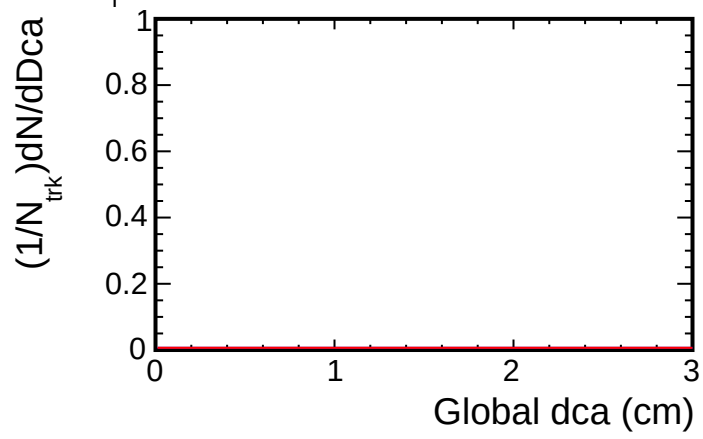
2, 3.0 < p_T < 3.5 (GeV/c)



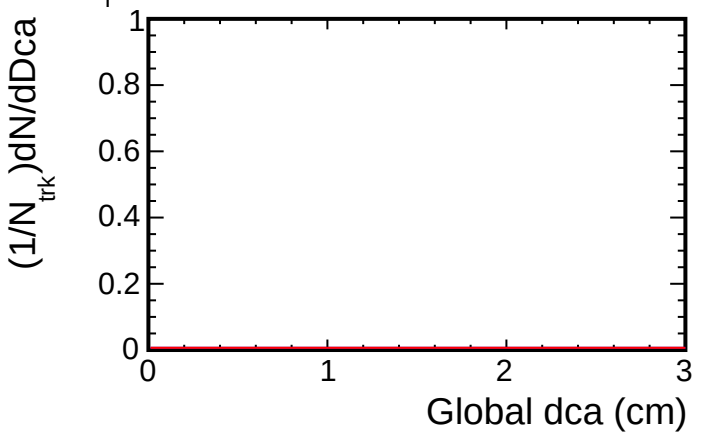
4, 3.0 < p_T < 3.5 (GeV/c)



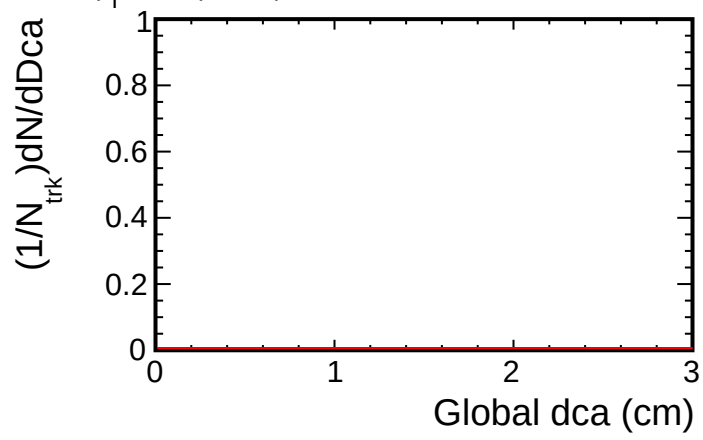
6, 3.0 < p_T < 3.5 (GeV/c)



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



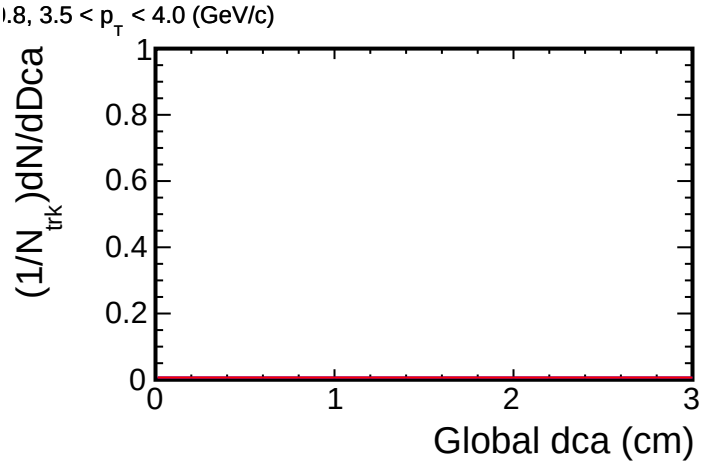
0, 3.0 < p_T < 3.5 (GeV/c)

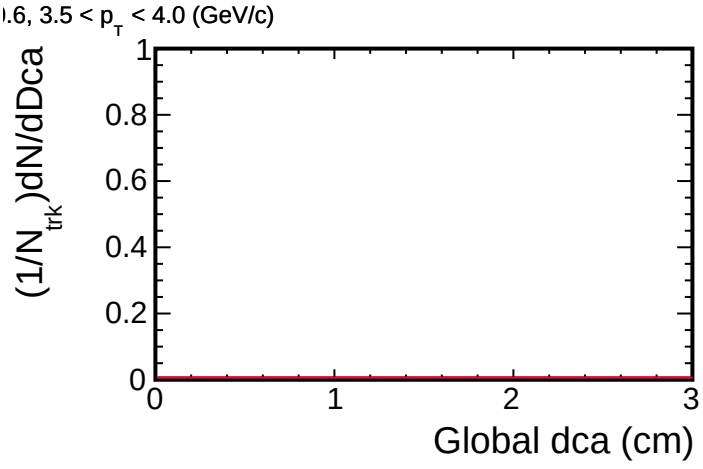


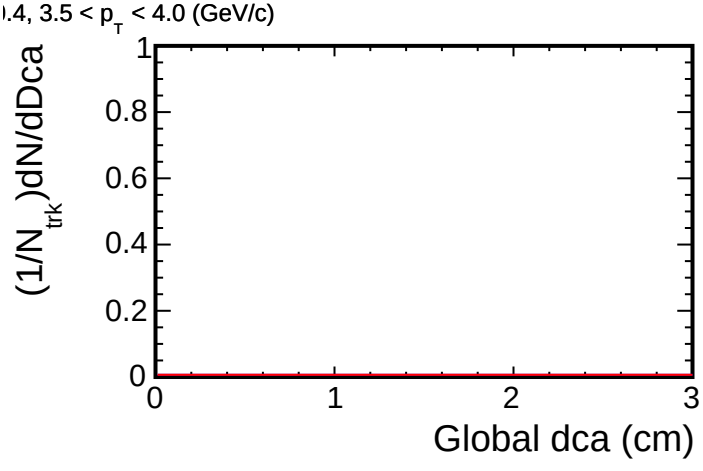
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

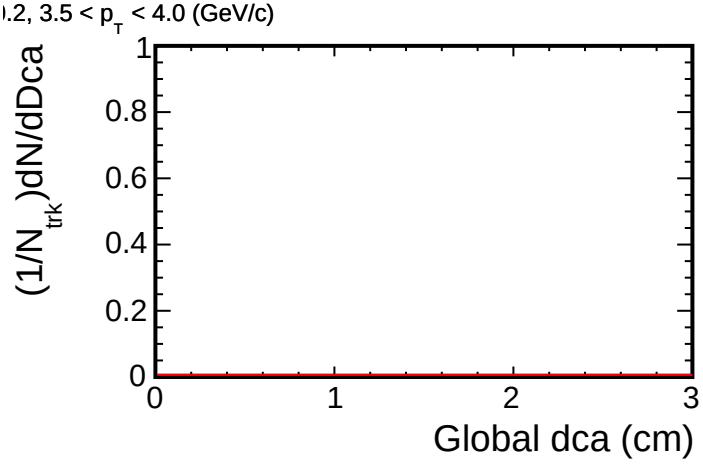
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

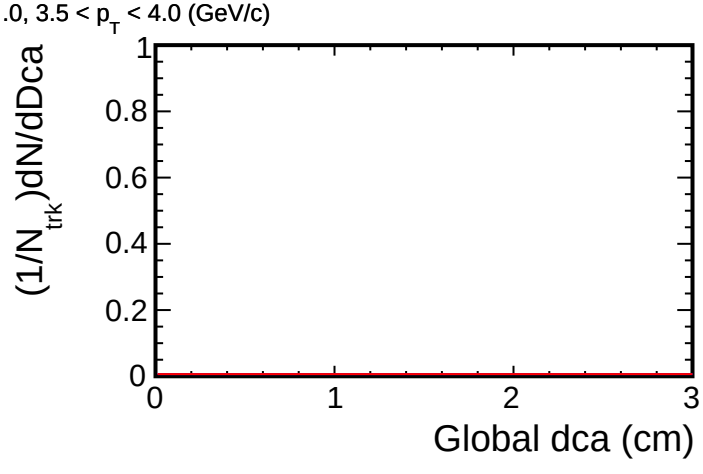
Dca distribution for (p_T, η) slices









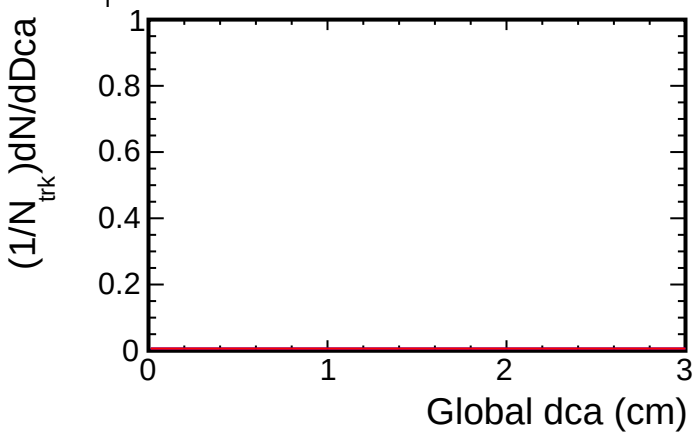


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

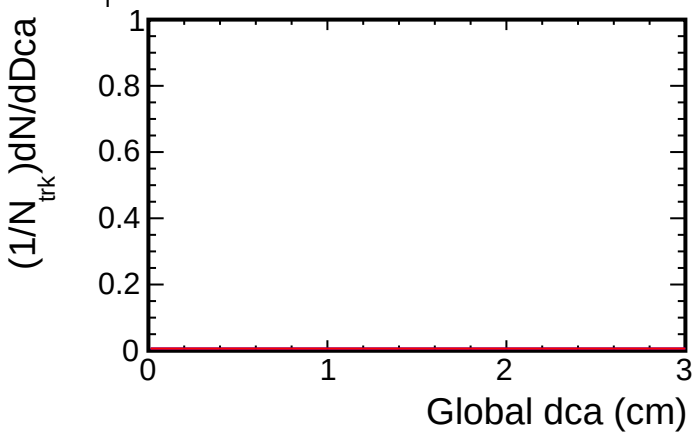
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

Dca distribution for (p_T, η) slices

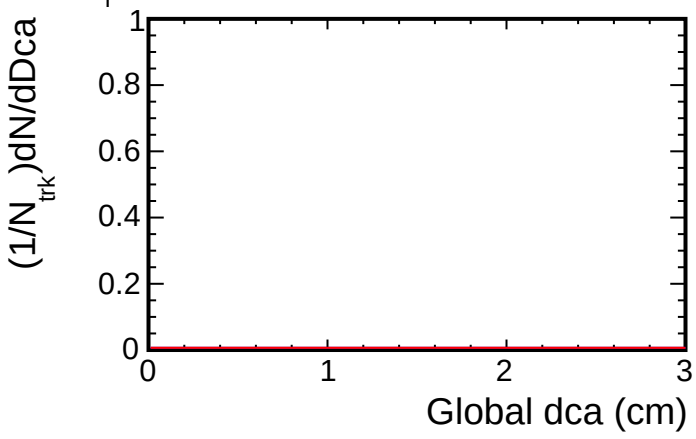
2, 3.5 < p_T < 4.0 (GeV/c)



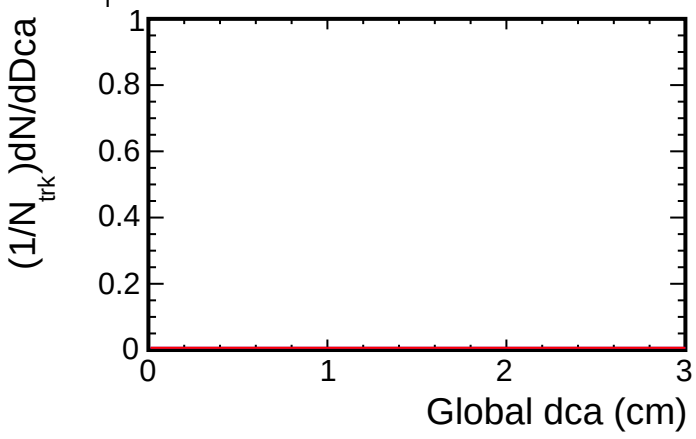
4, 3.5 < p_T < 4.0 (GeV/c)



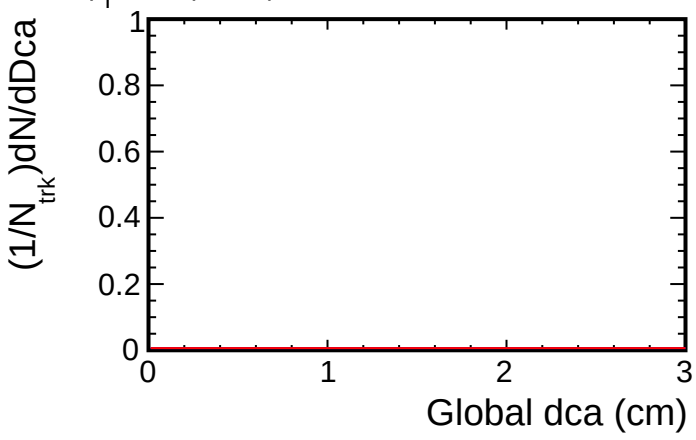
6, 3.5 < p_T < 4.0 (GeV/c)



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



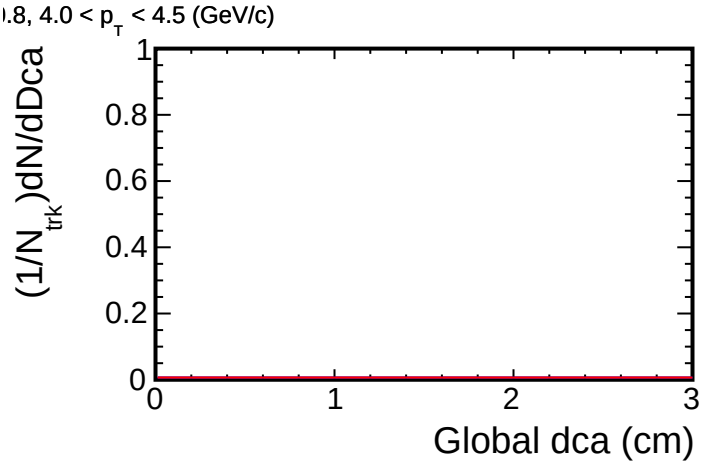
0, 3.5 < p_T < 4.0 (GeV/c)

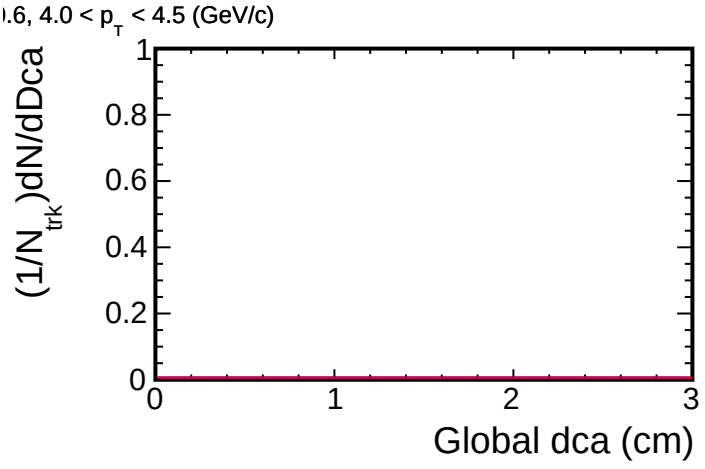


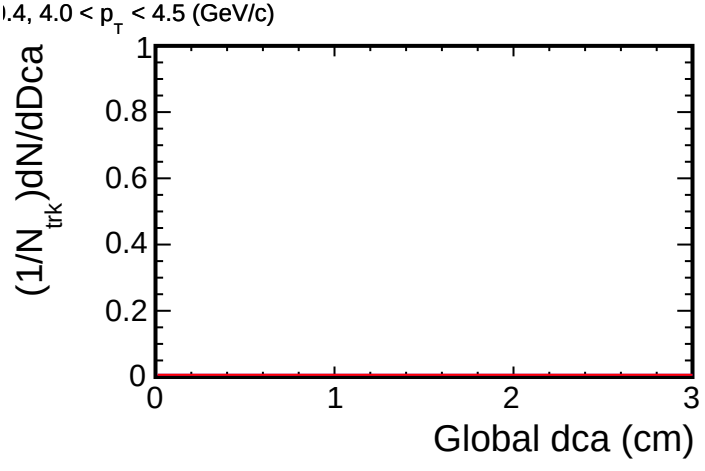
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

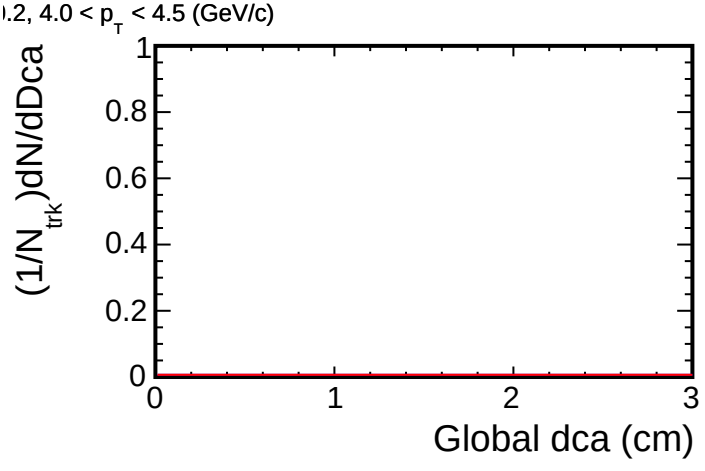
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

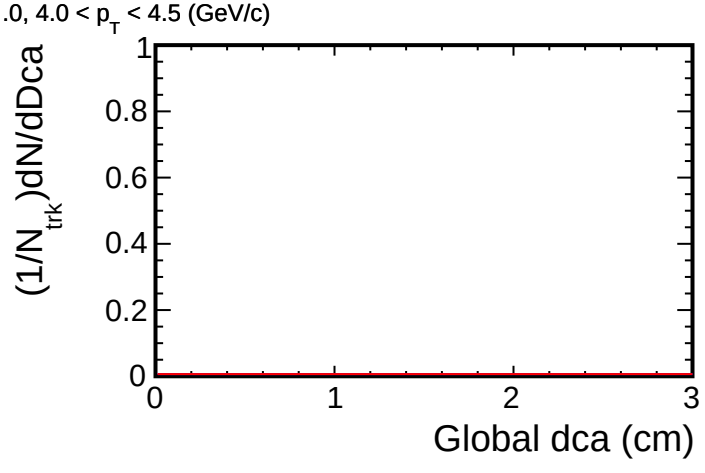
Dca distribution for (p_T, η) slices







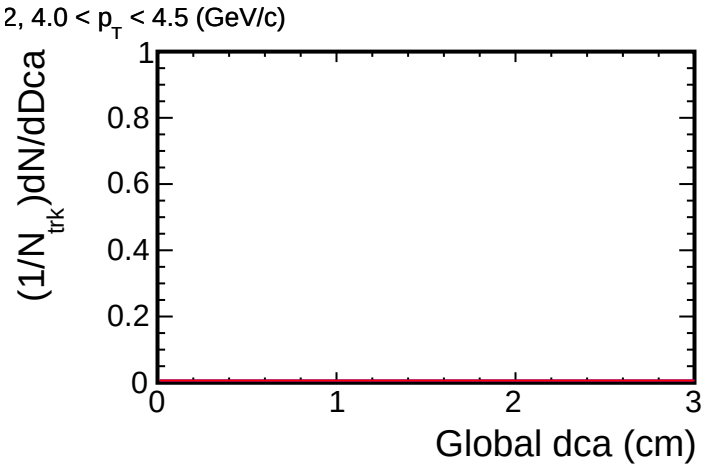


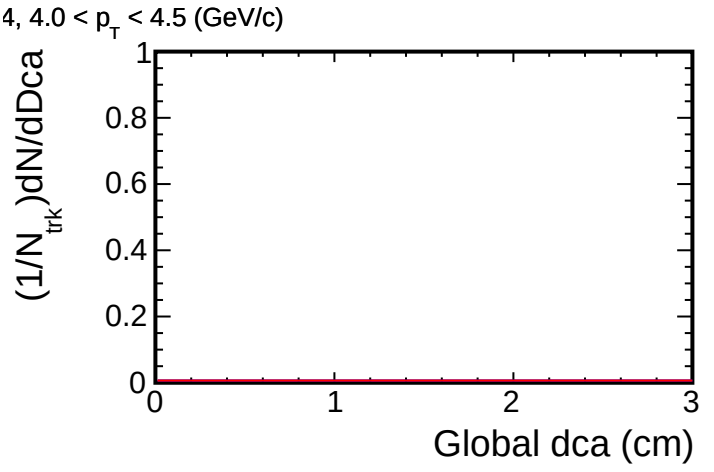


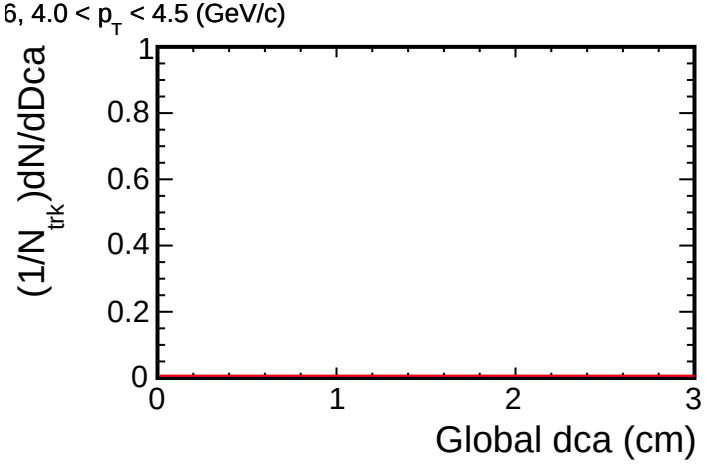
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

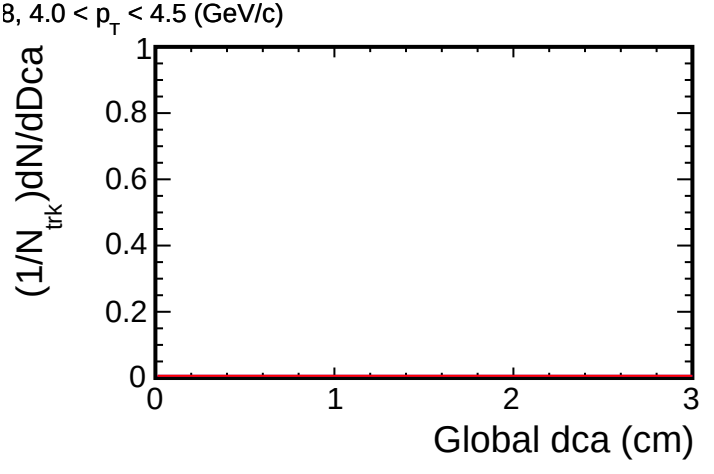
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

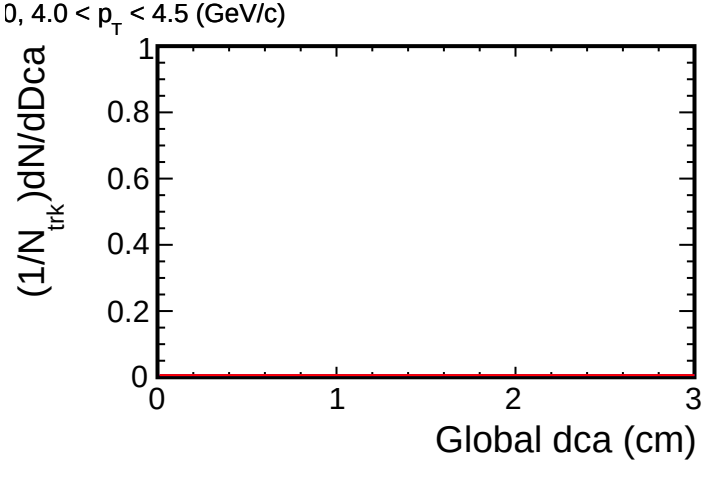
Dca distribution for (p_T, η) slices







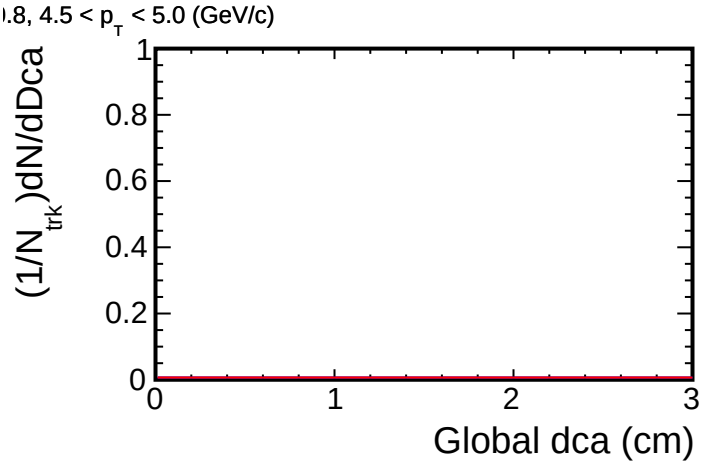


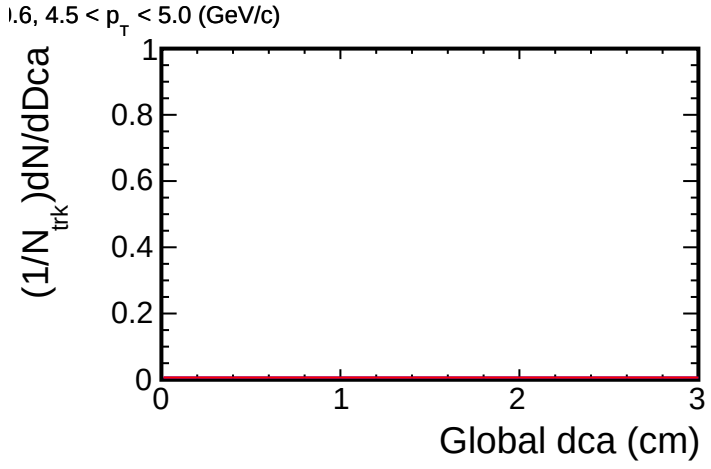


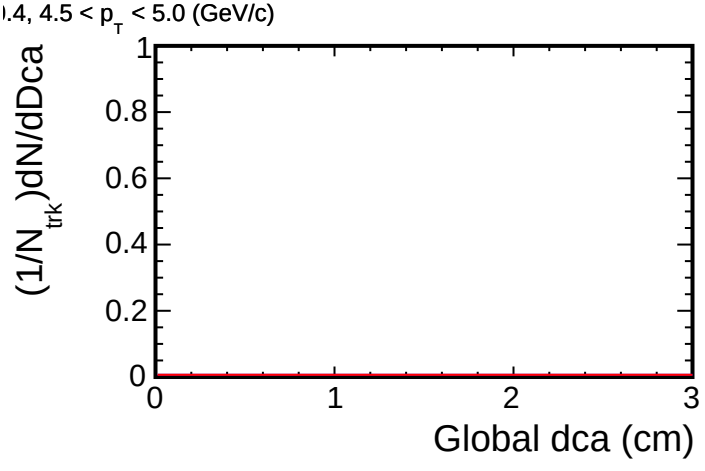
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

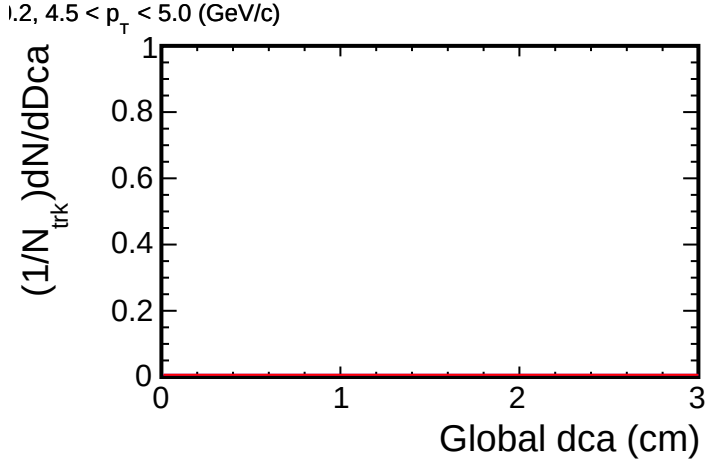
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

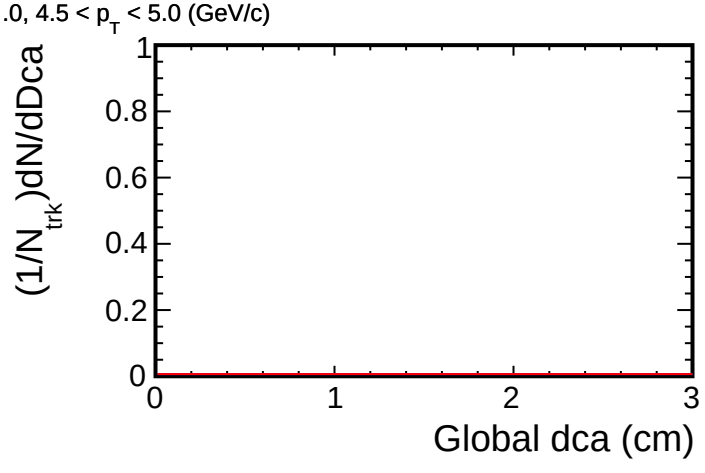
Dca distribution for (p_T, η) slices







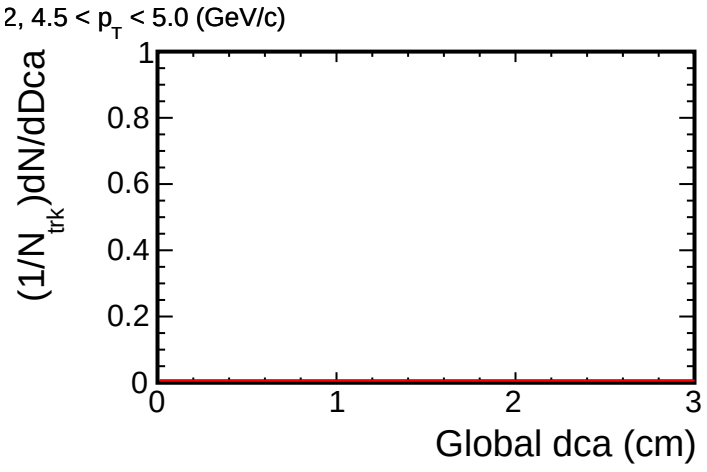


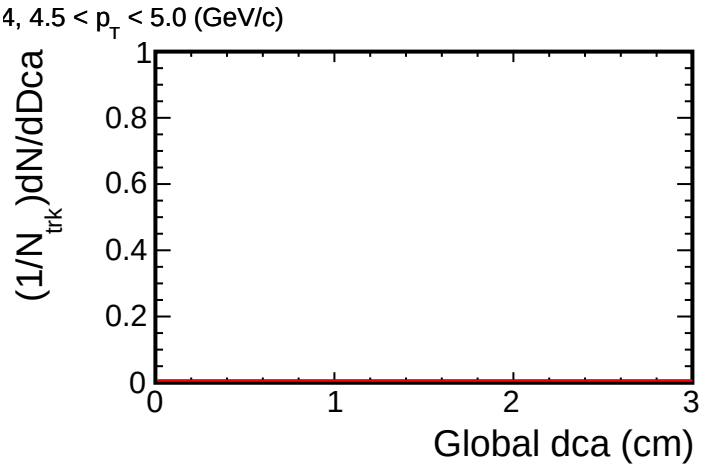


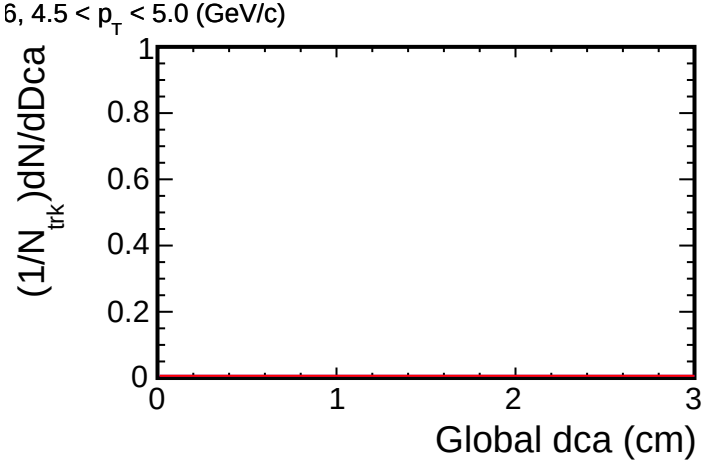
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

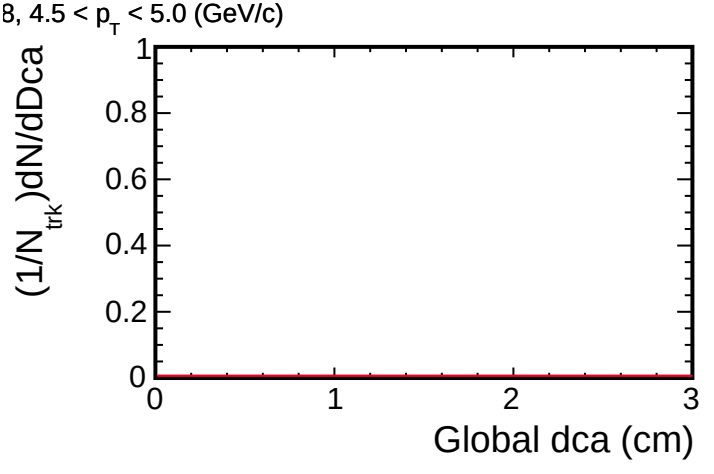
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

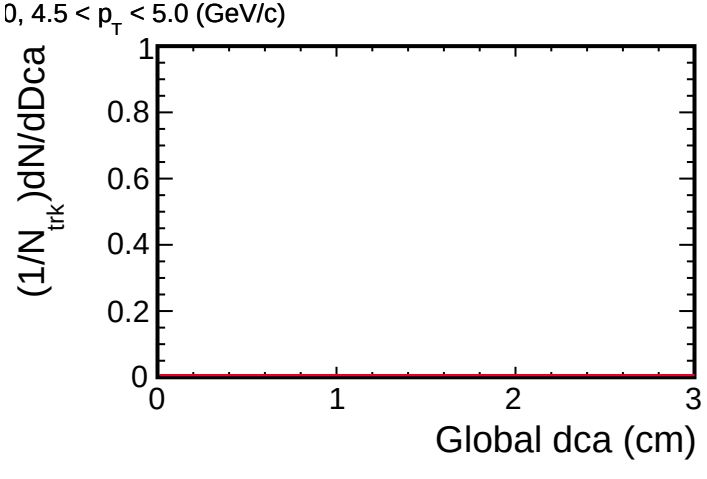
Dca distribution for (p_T, η) slices







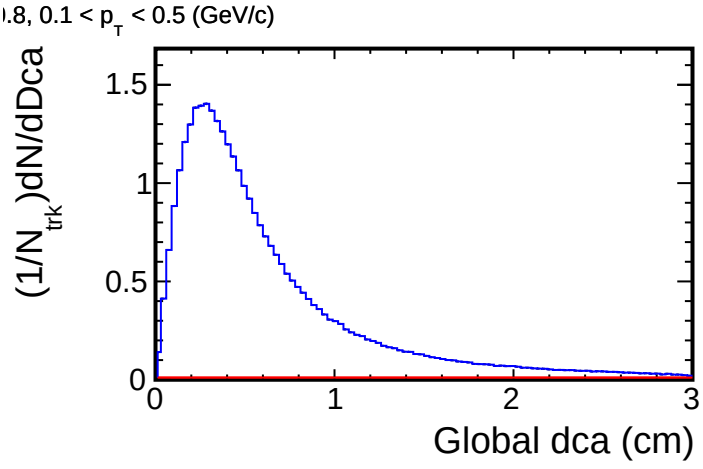


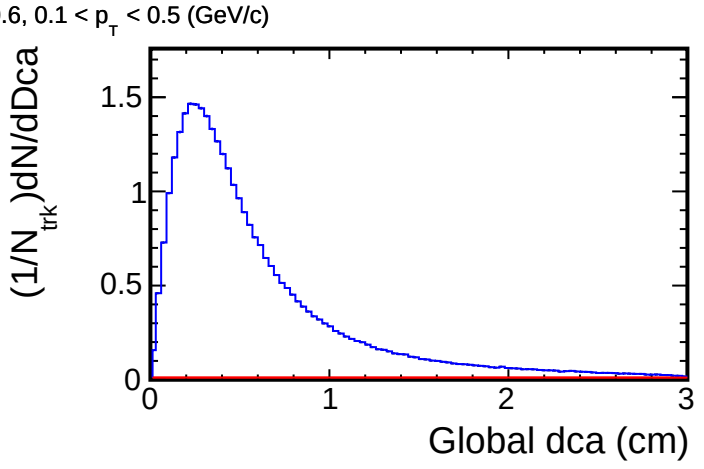


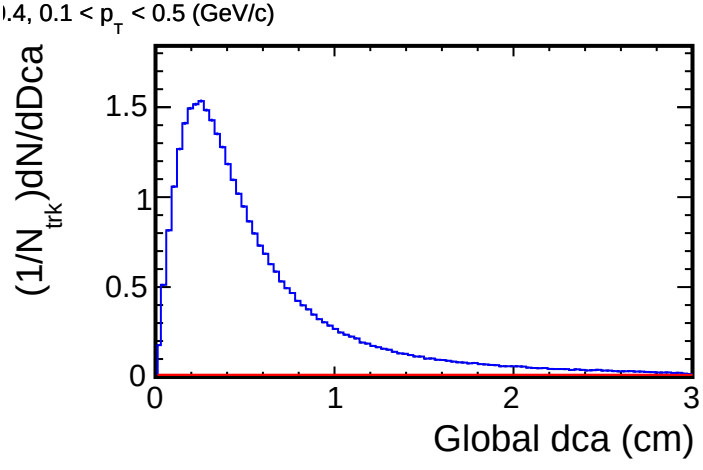
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

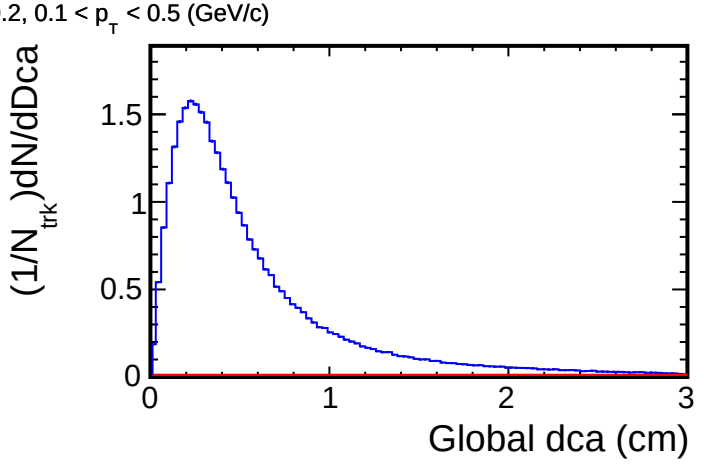
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

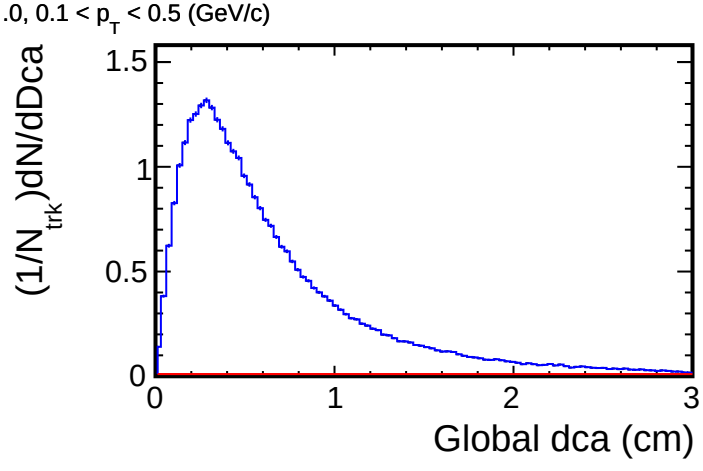
Dca distribution for (p_T, η) slices







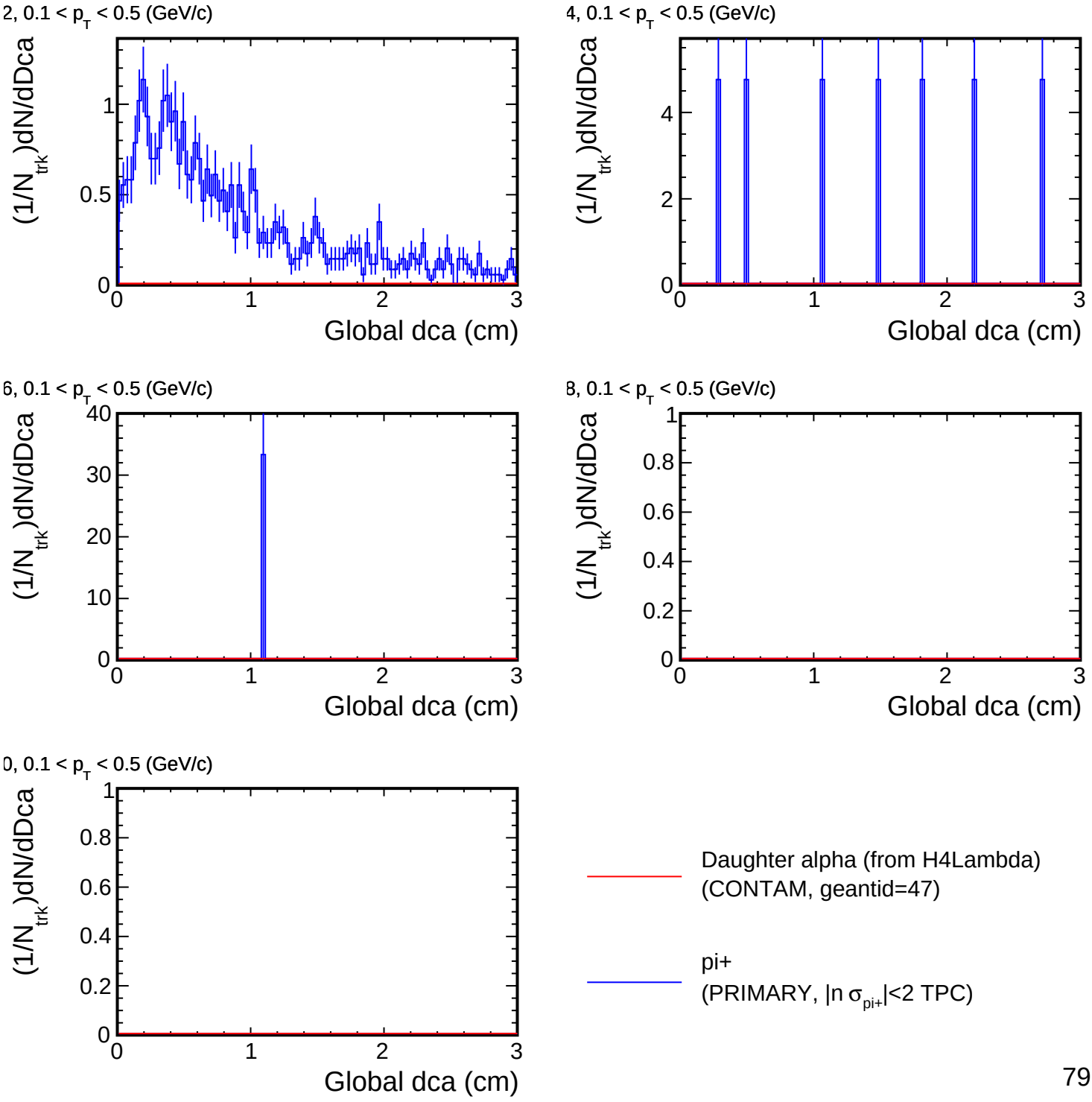




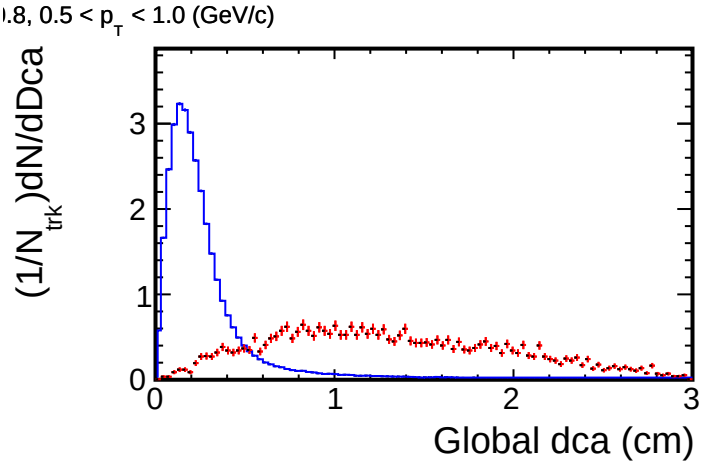
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

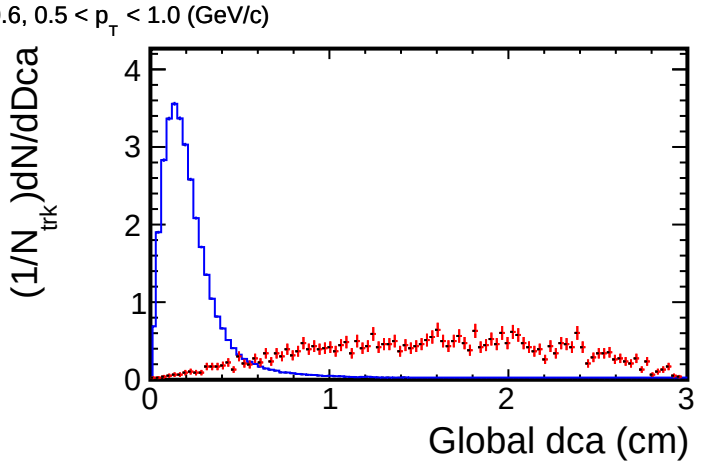
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

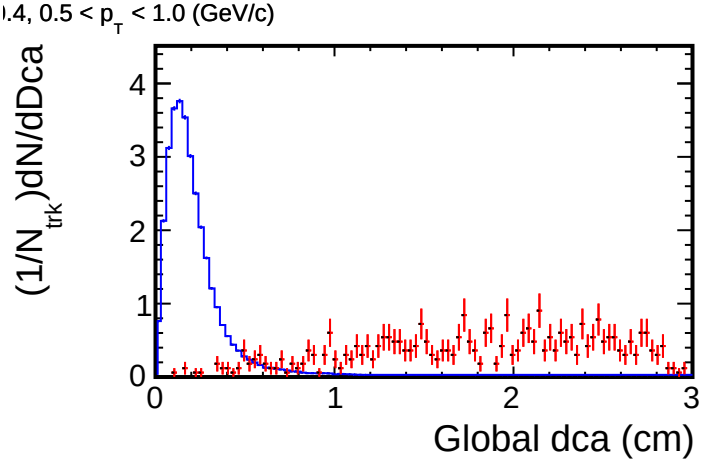
Dca distribution for (p_T, η) slices

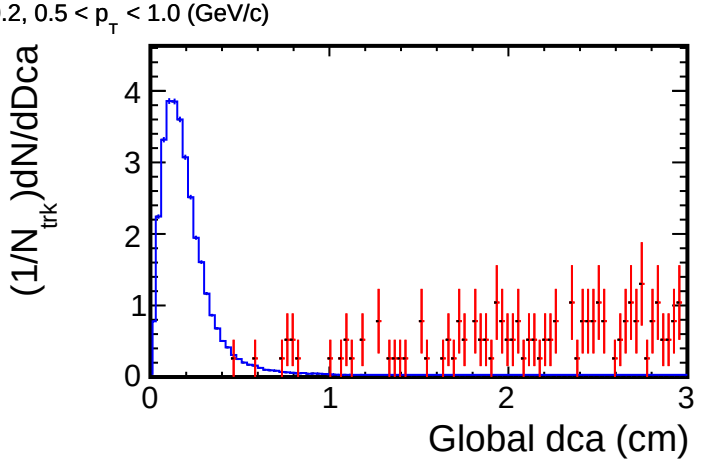


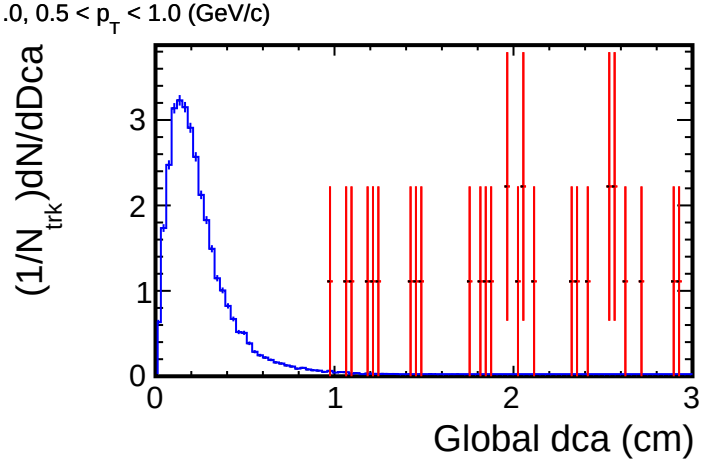
Dca distribution for (p_T, η) slices







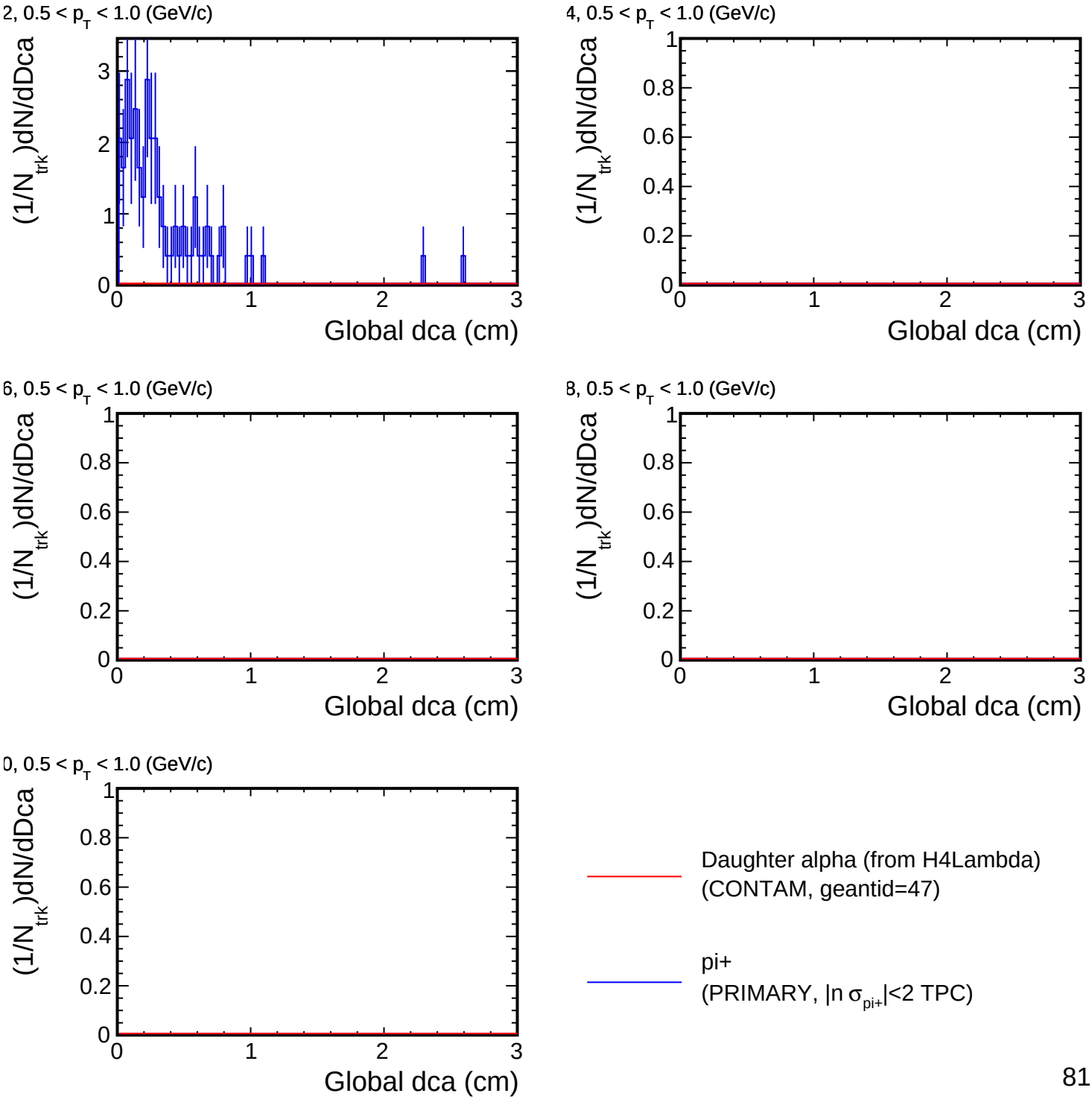




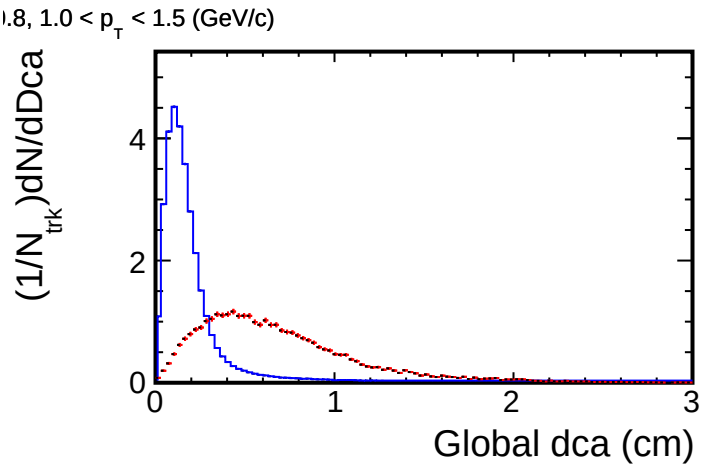
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

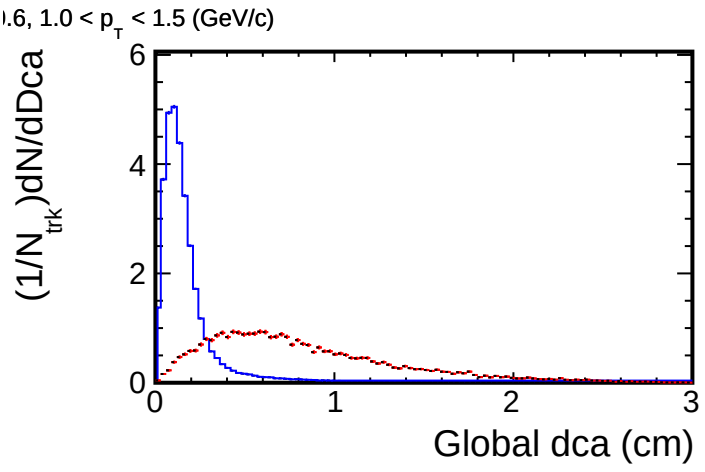
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

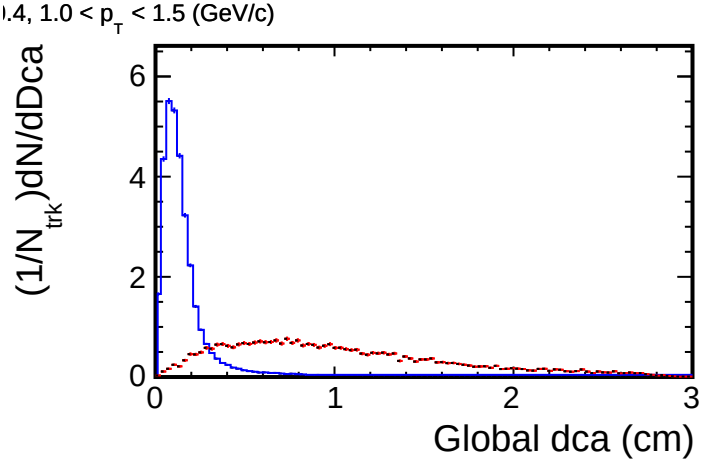
Dca distribution for (p_T, η) slices

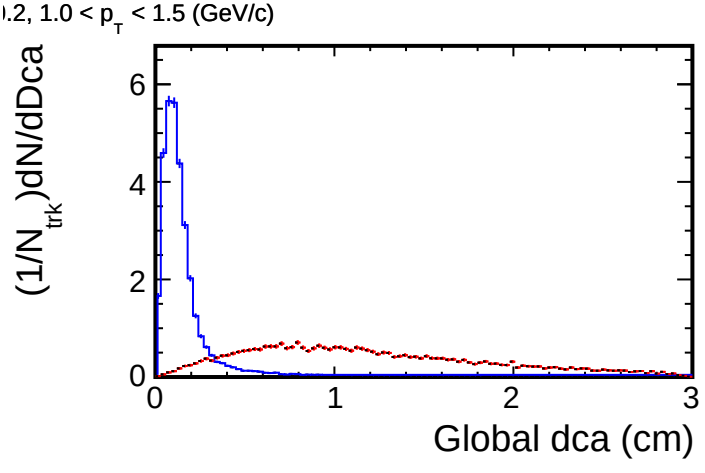


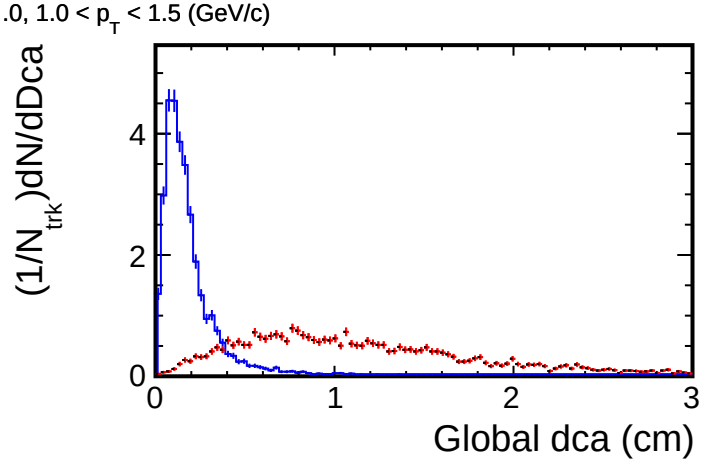
Dca distribution for (p_T, η) slices







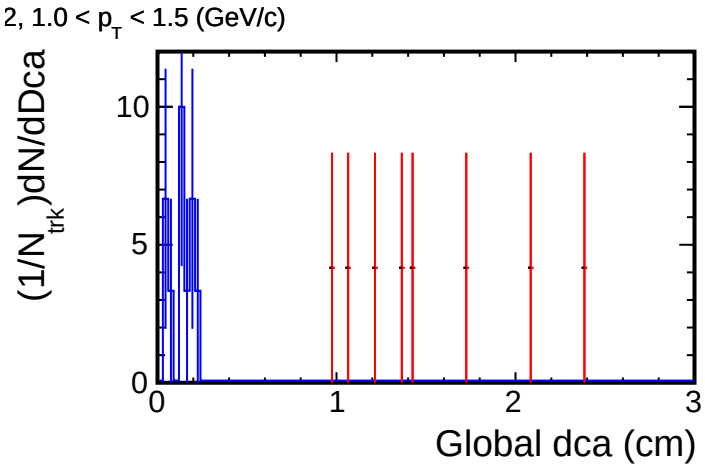


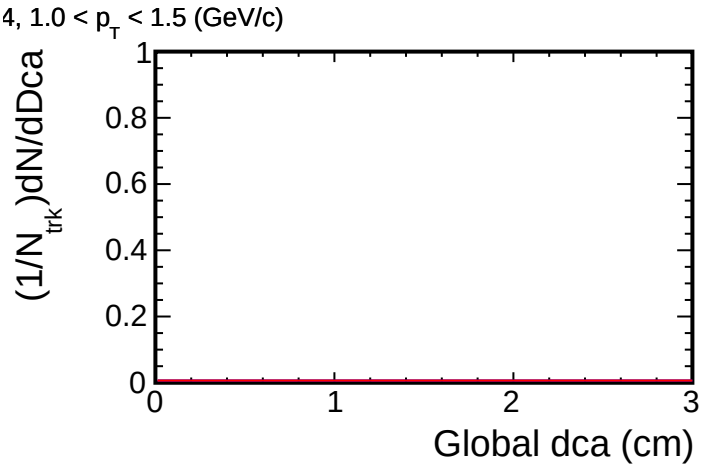


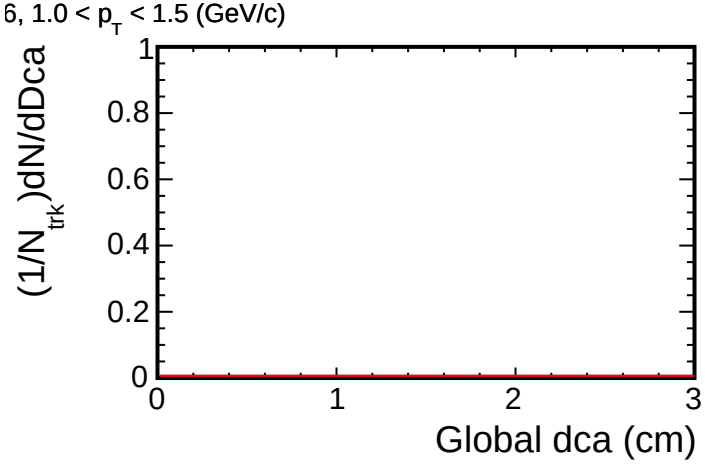
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

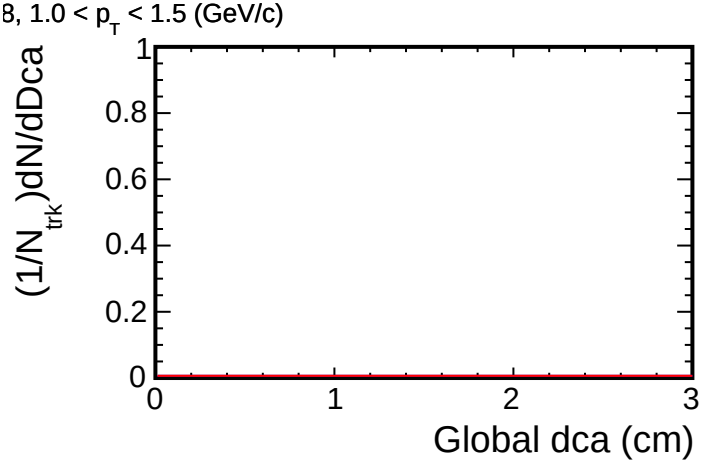
pi+
(PRIMARY, $|n\sigma_{pi+}|$<2 TPC)

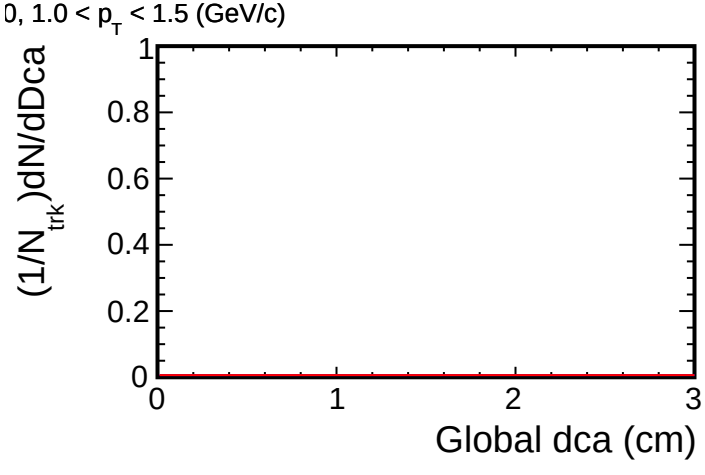
Dca distribution for (p_T, η) slices







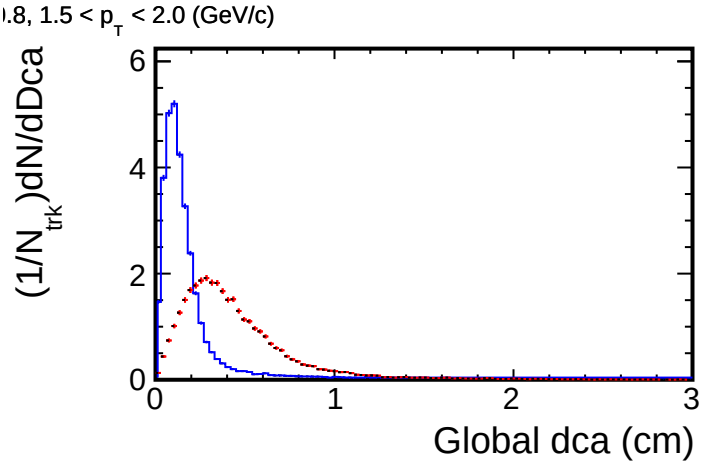


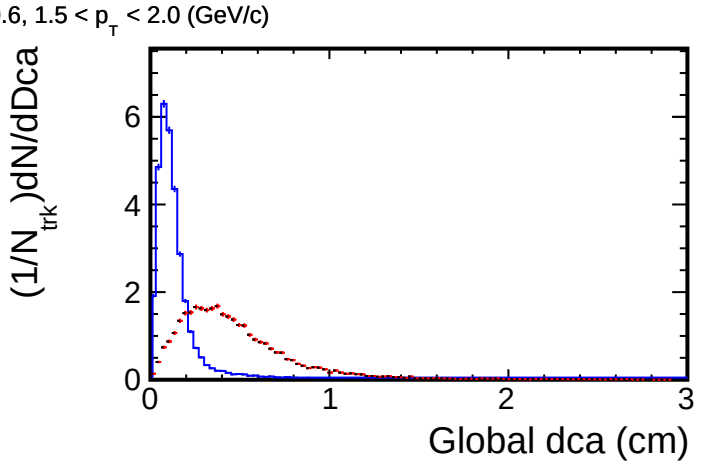


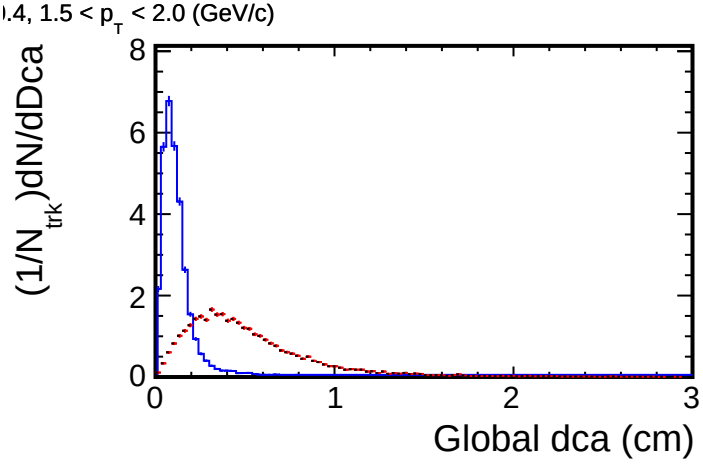
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

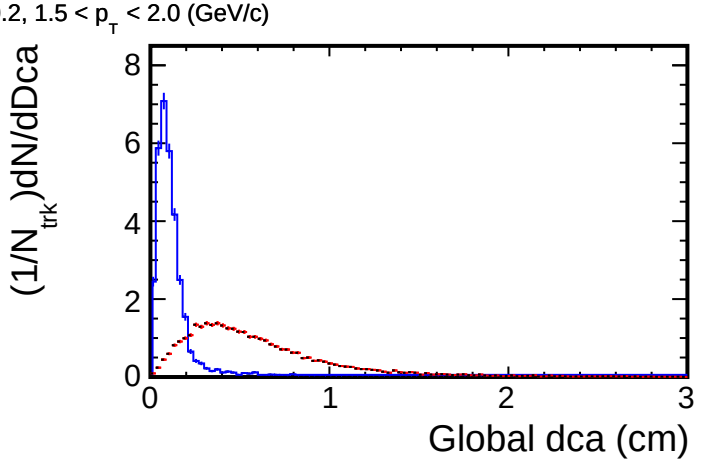
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

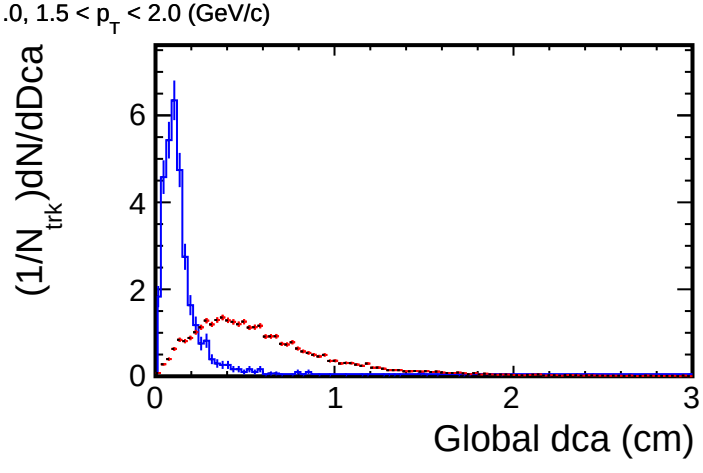
Dca distribution for (p_T, η) slices







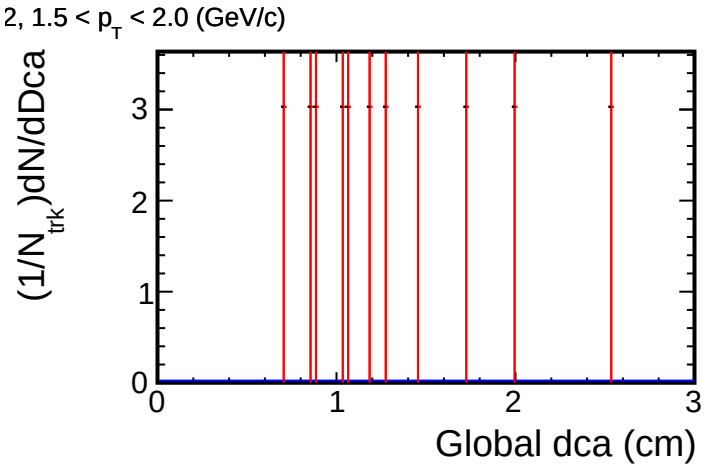


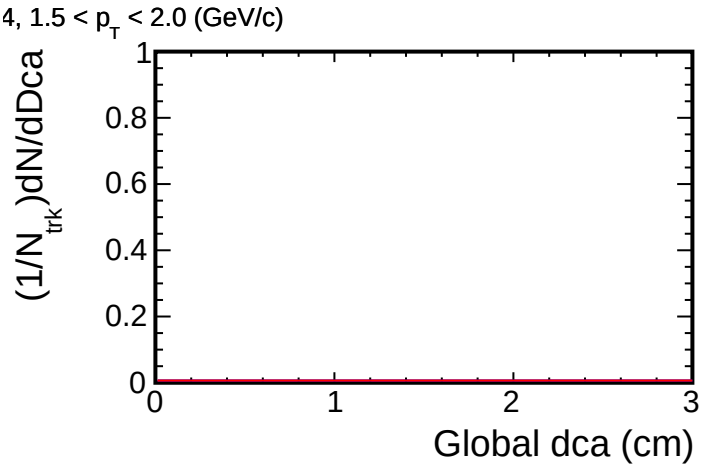


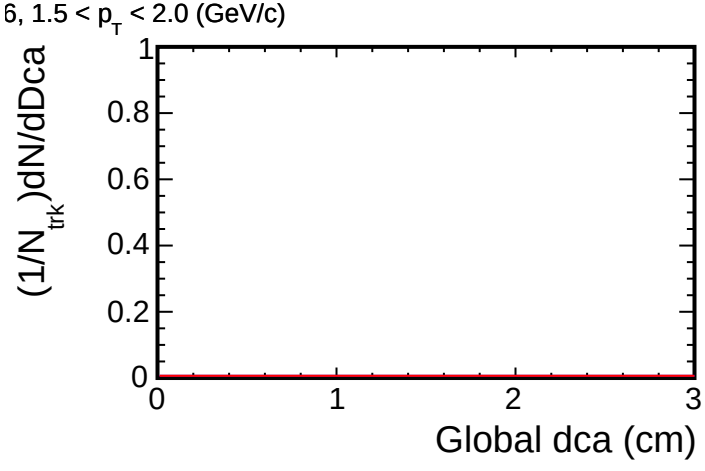
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

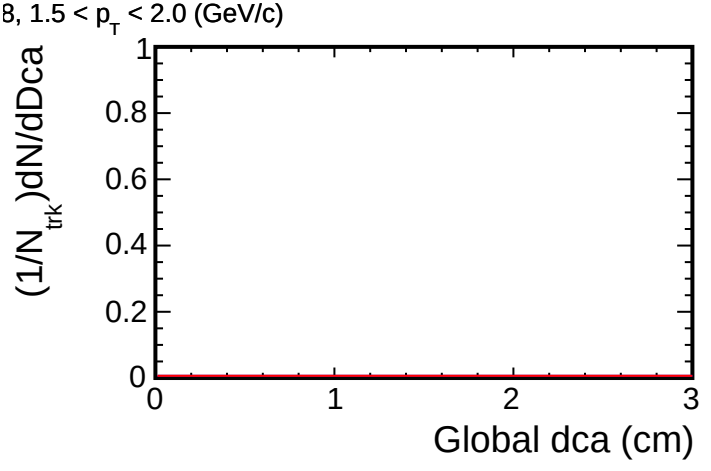
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

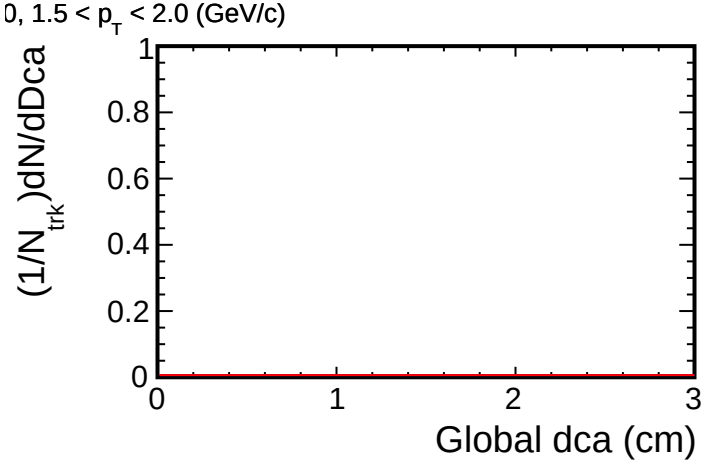
Dca distribution for (p_T, η) slices







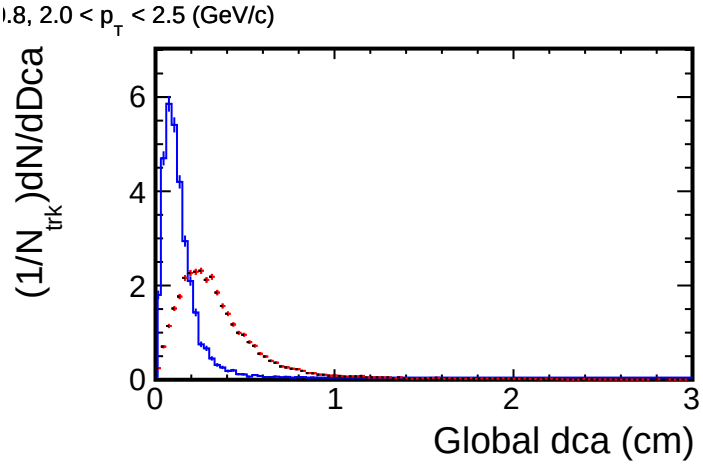


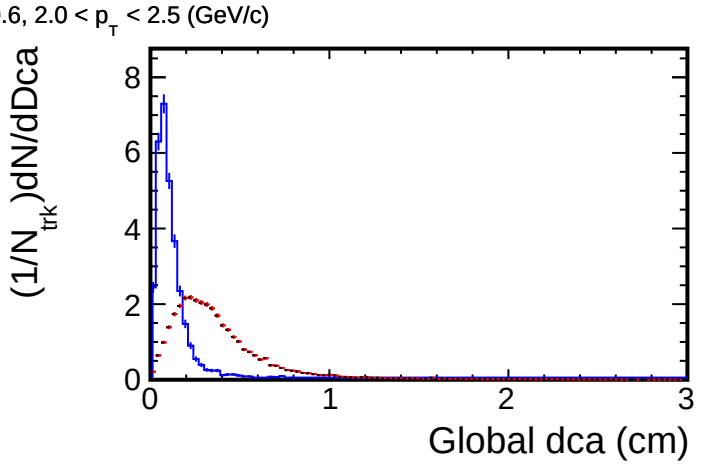


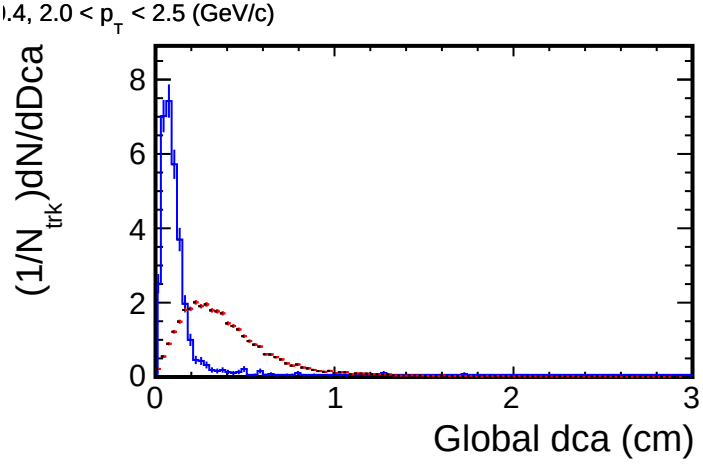
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

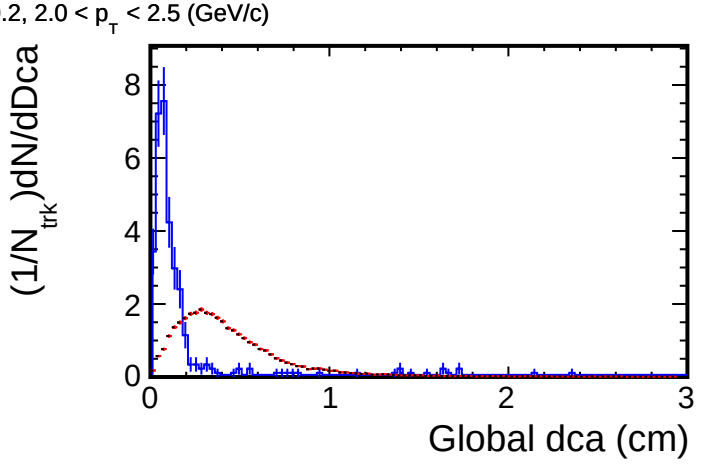
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

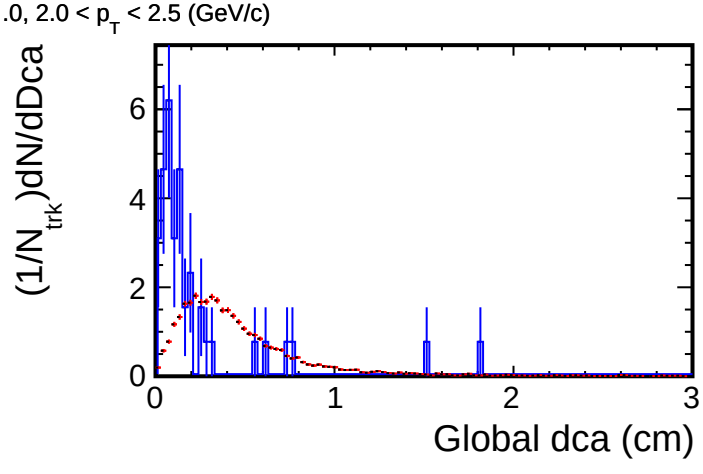
Dca distribution for (p_T, η) slices







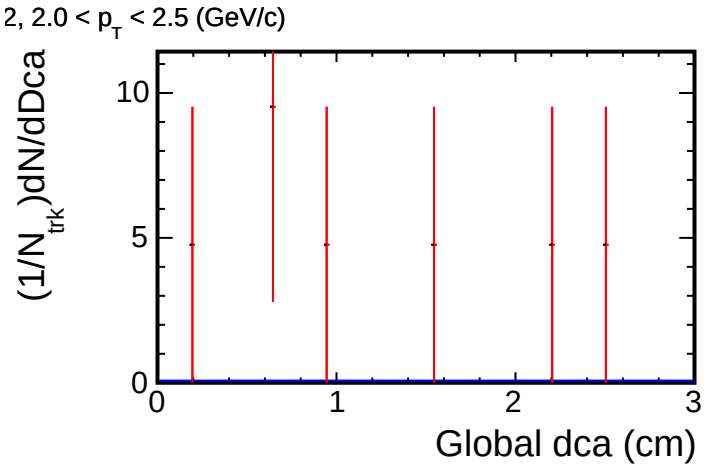


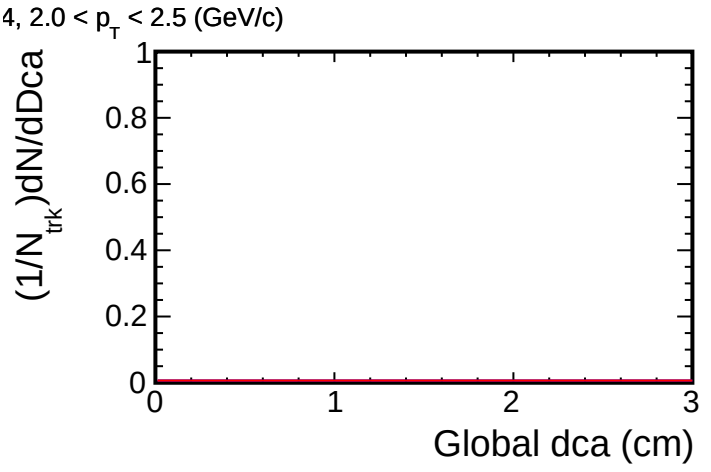


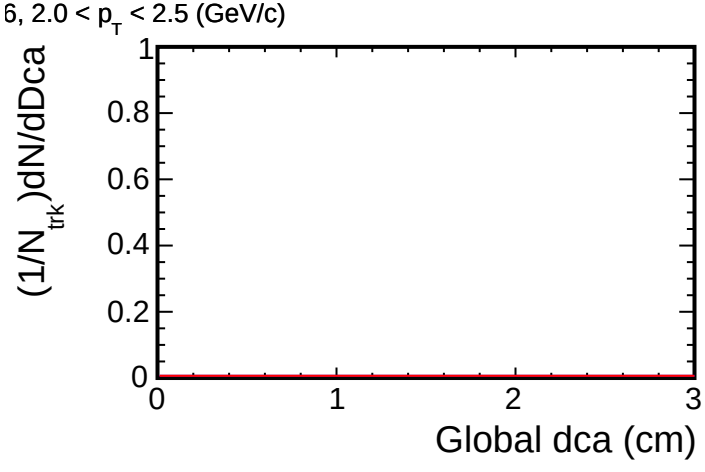
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

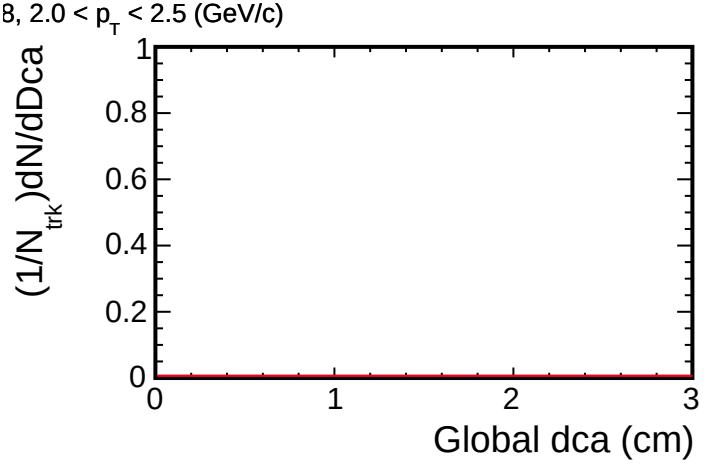
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

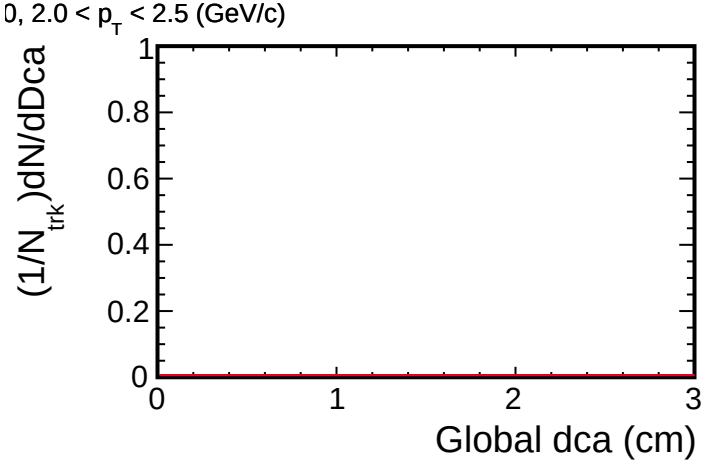
Dca distribution for (p_T, η) slices







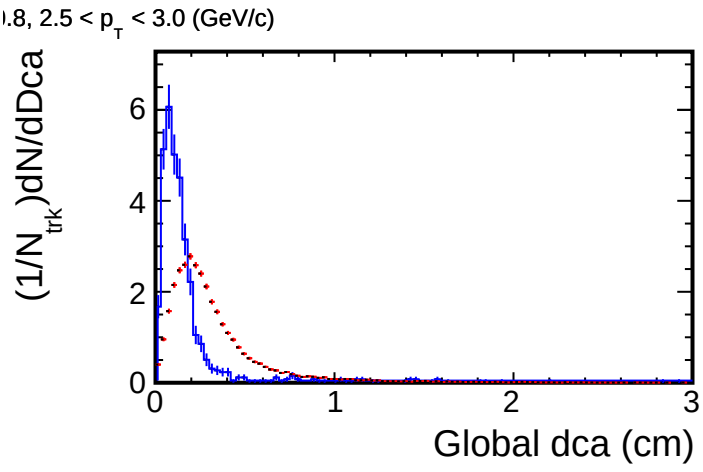


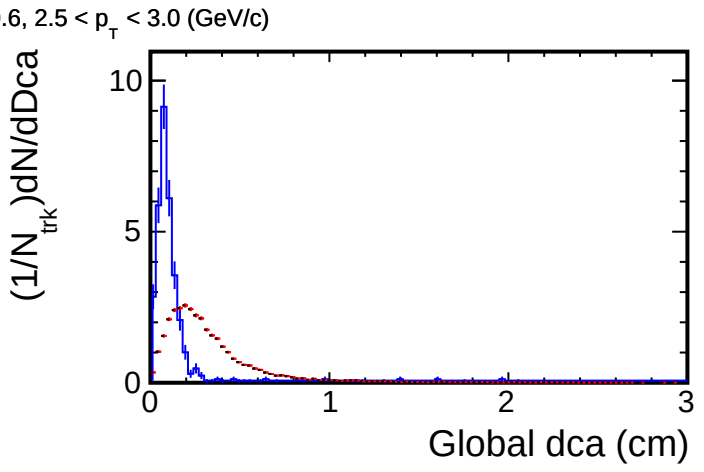


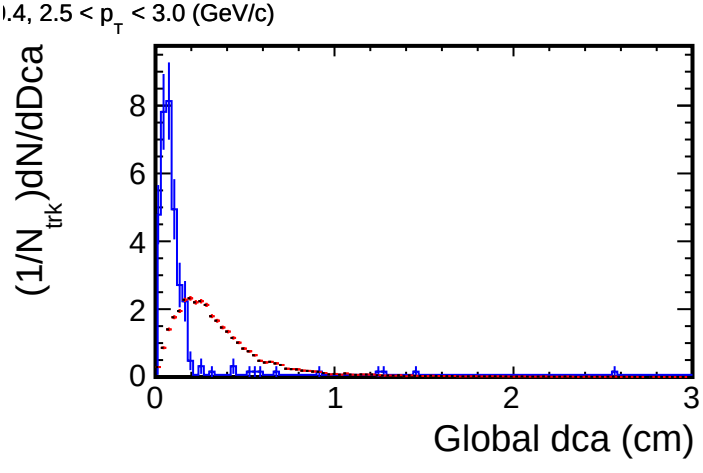
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

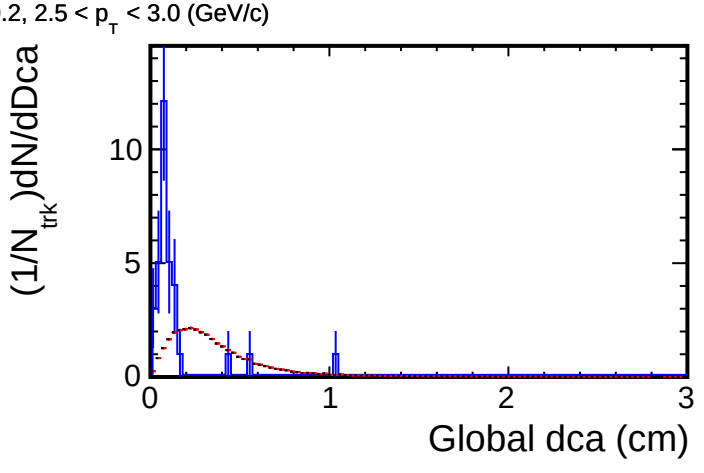
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

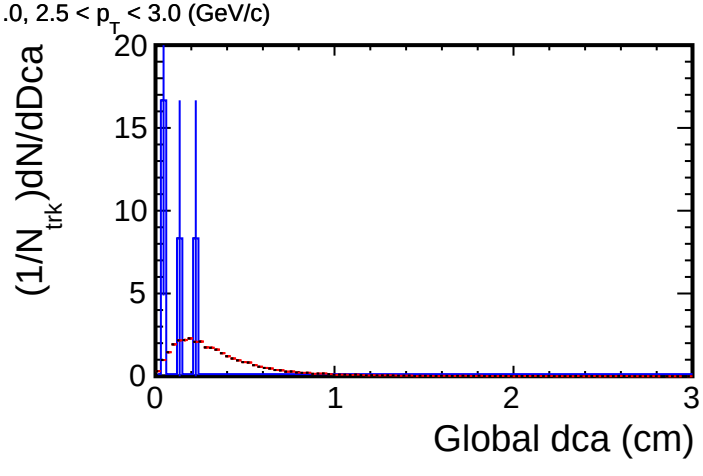
Dca distribution for (p_T, η) slices







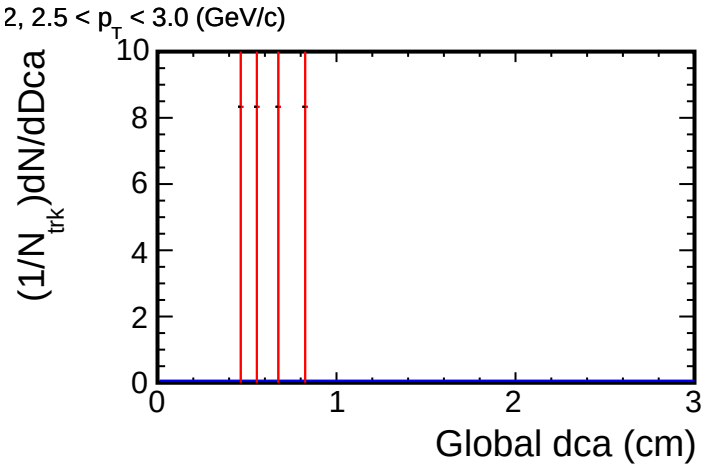


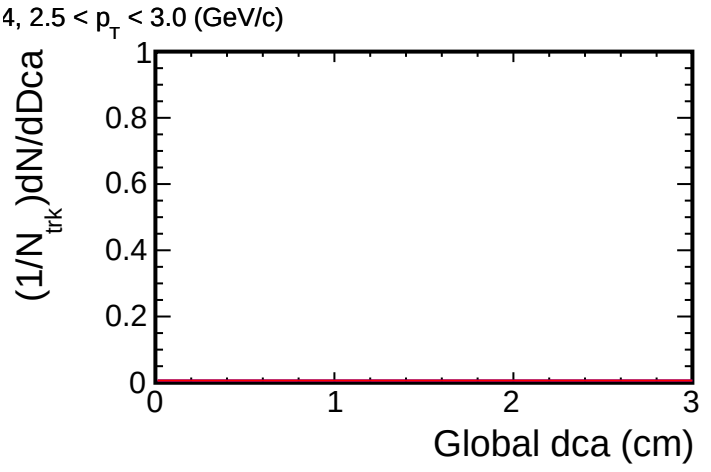


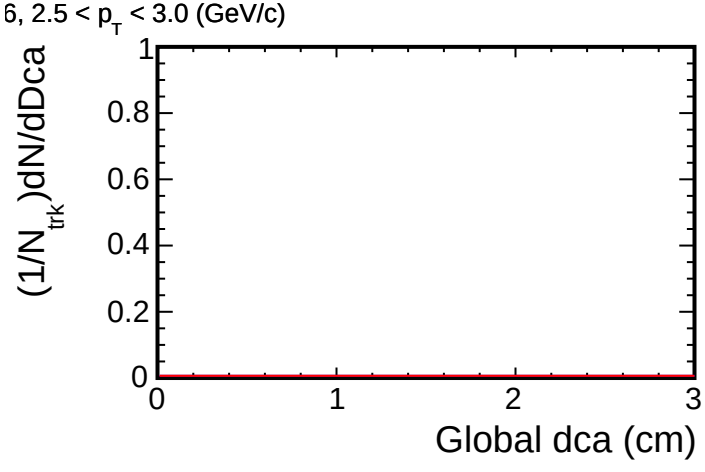
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

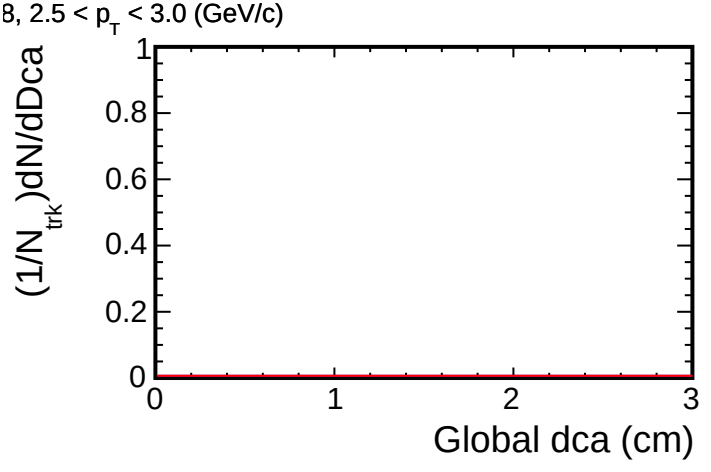
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

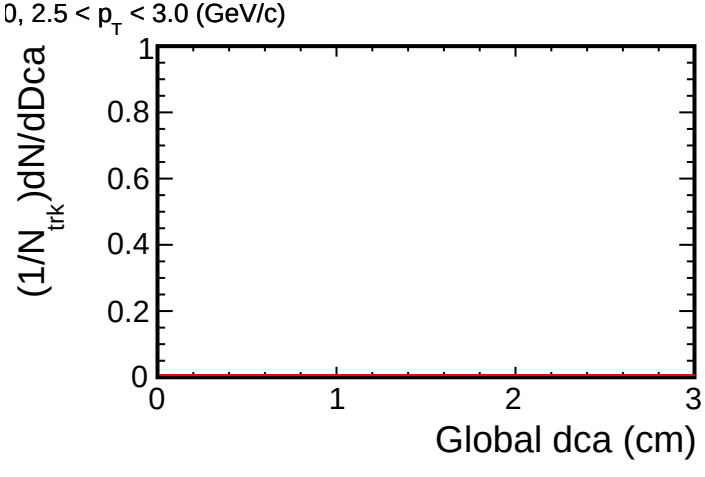
Dca distribution for (p_T, η) slices







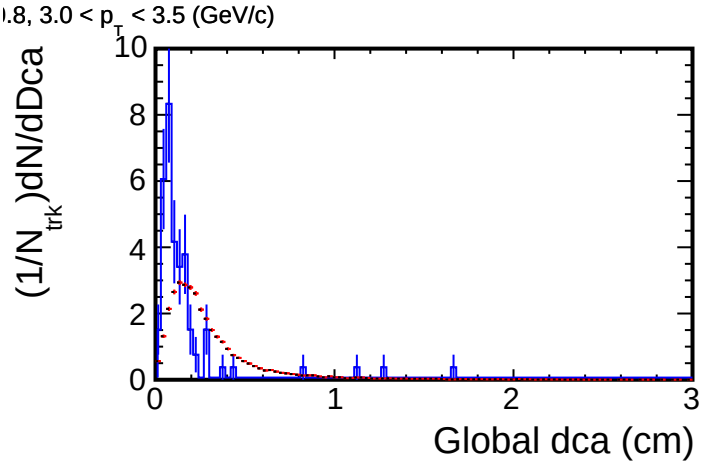


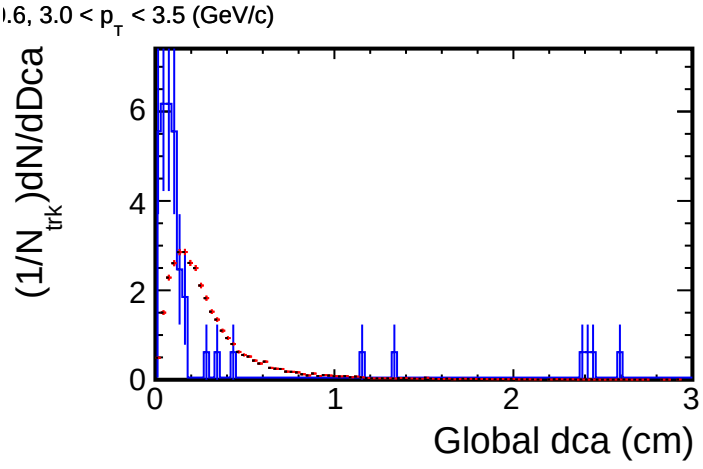


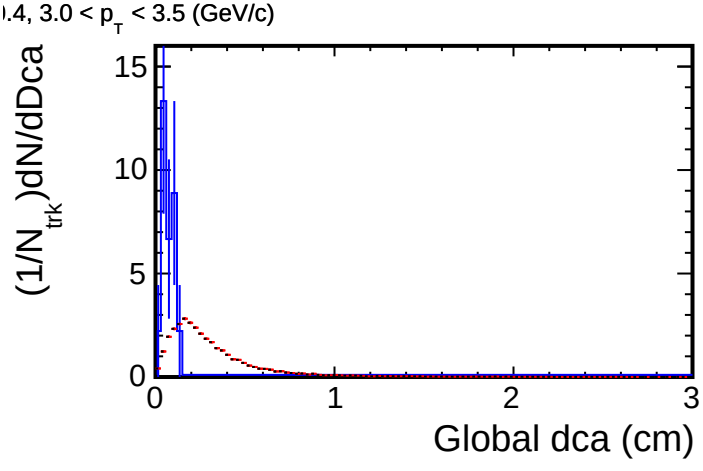
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

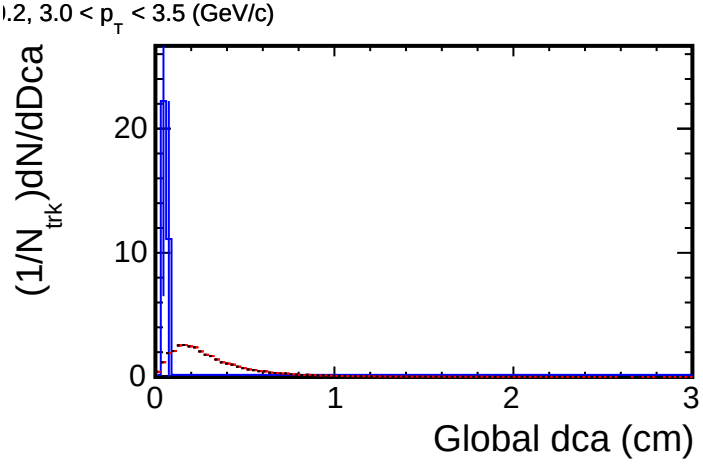
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

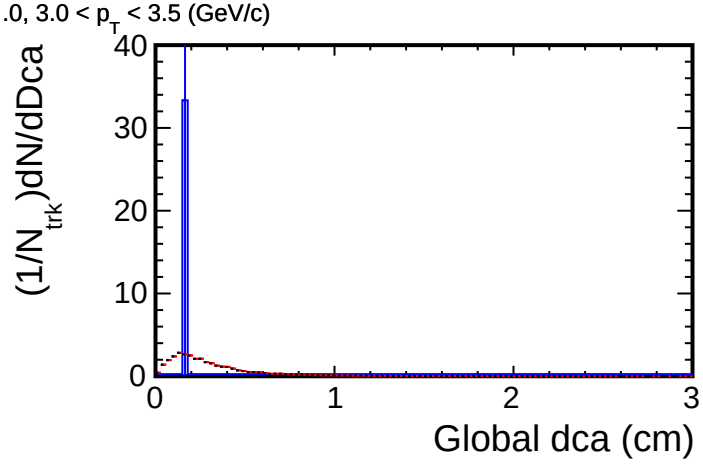
Dca distribution for (p_T, η) slices







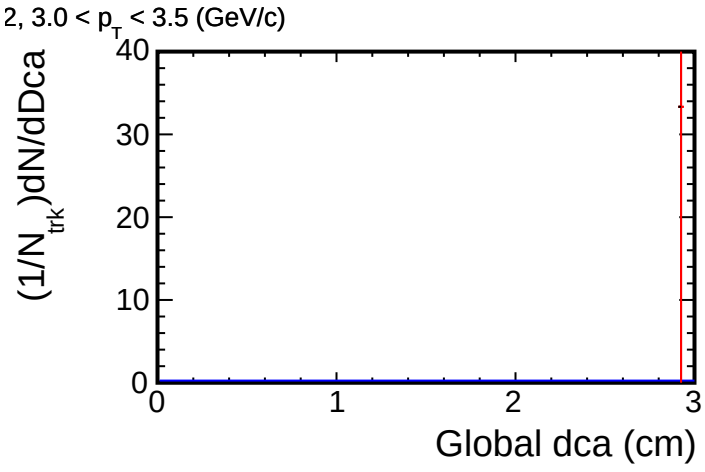


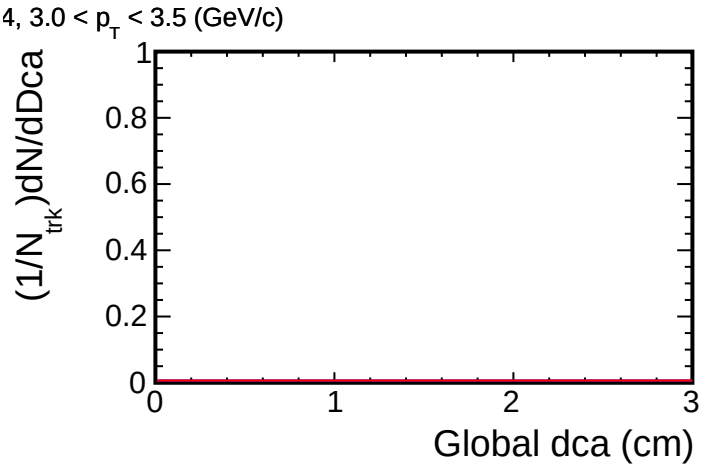


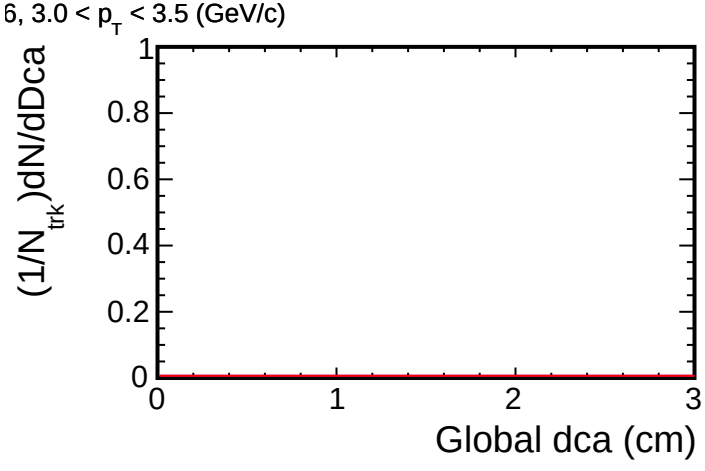
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

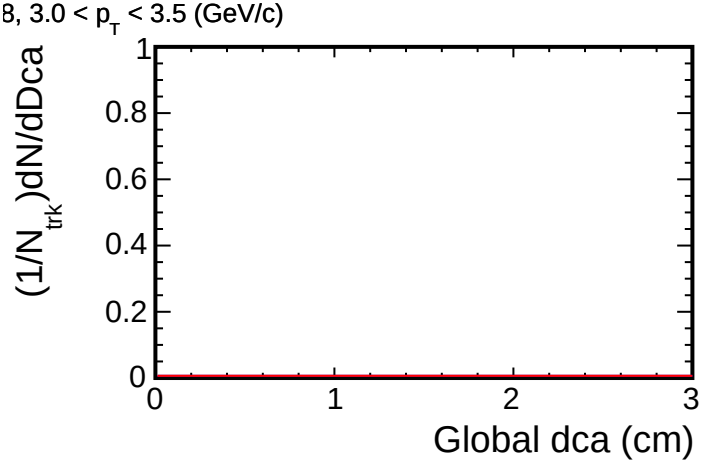
pi+
(PRIMARY, $|n\sigma_{pi+}|$<2 TPC)

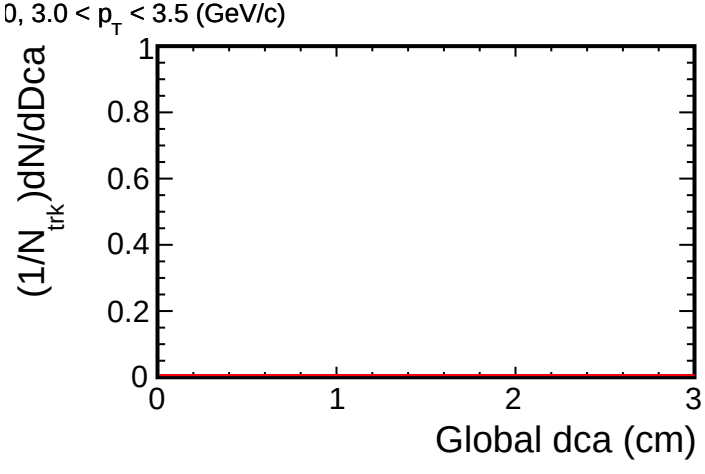
Dca distribution for (p_T, η) slices







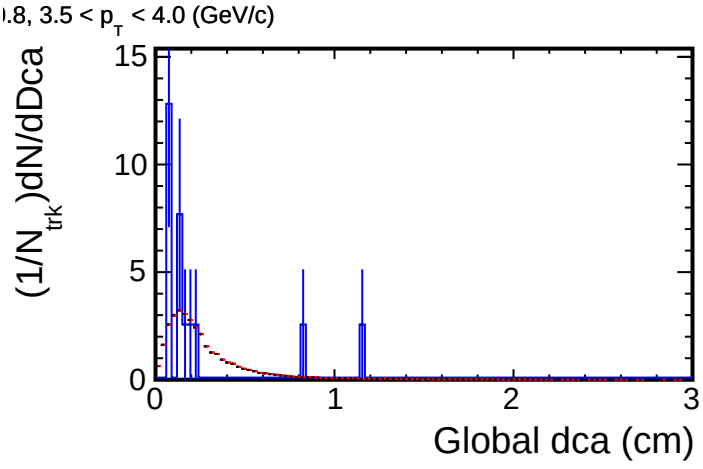


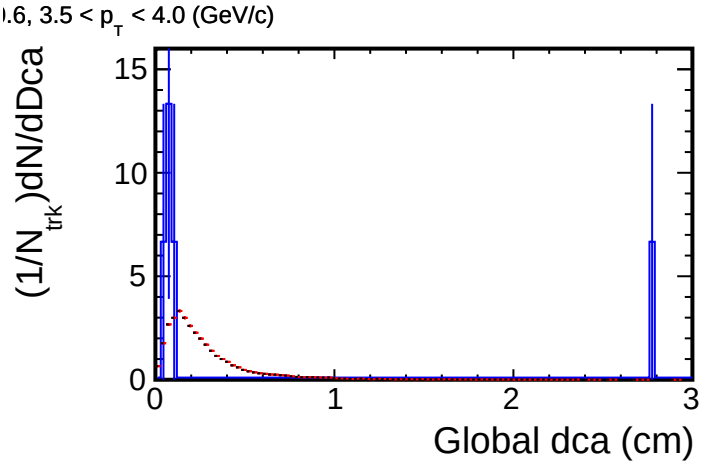


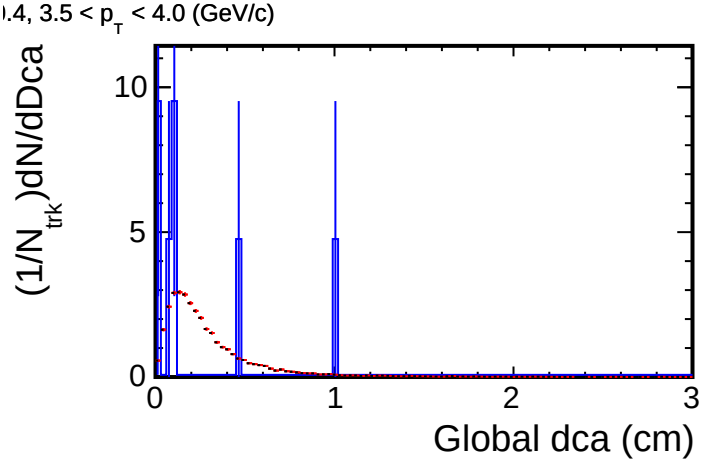
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

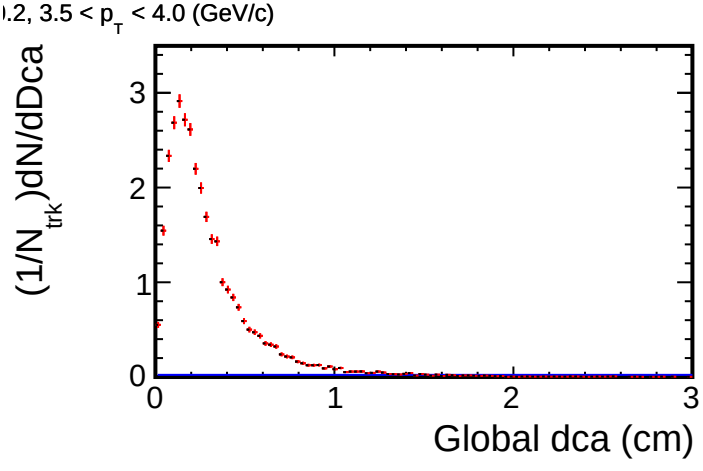
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

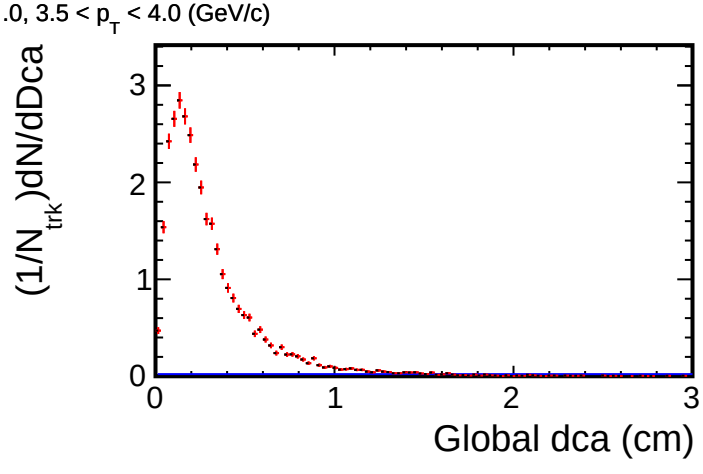
Dca distribution for (p_T, η) slices







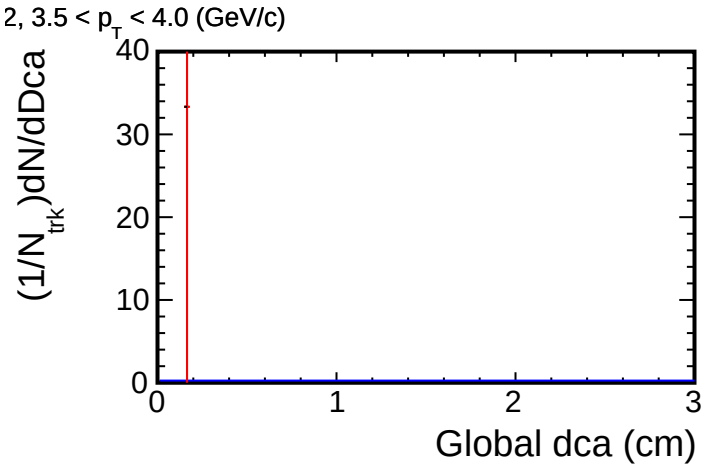


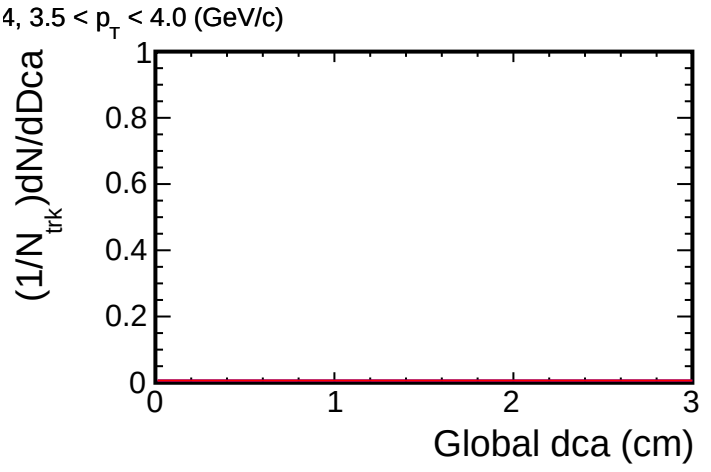


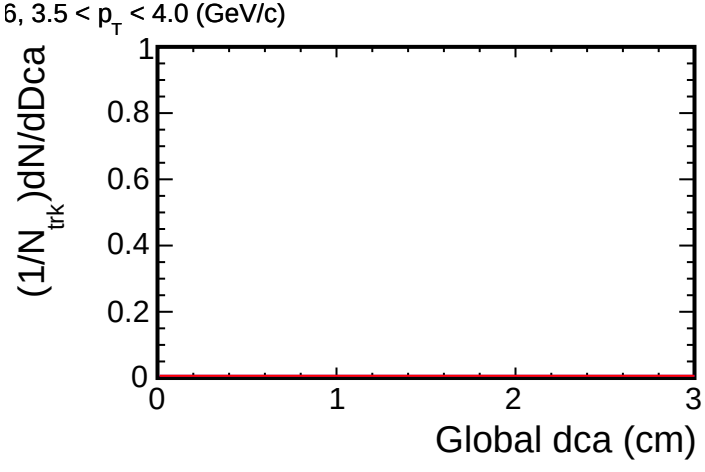
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

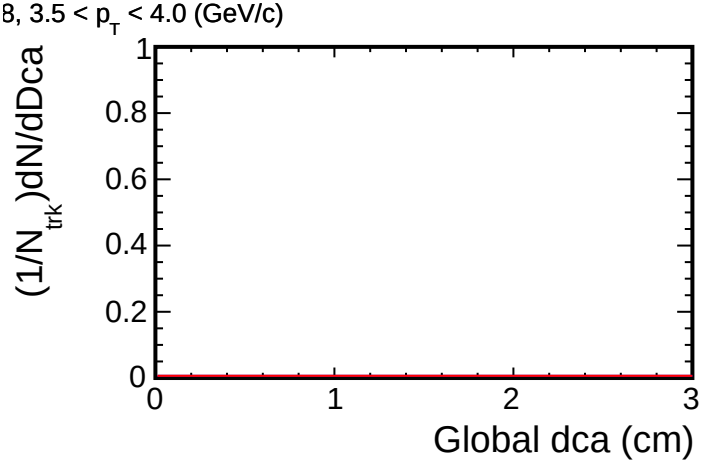
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

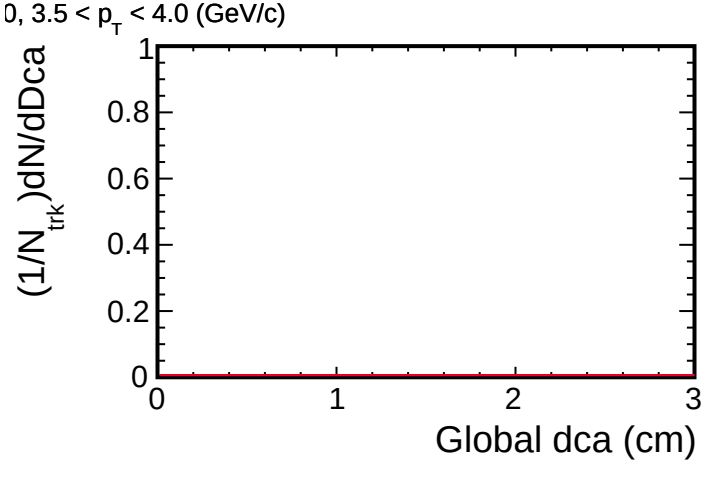
Dca distribution for (p_T, η) slices







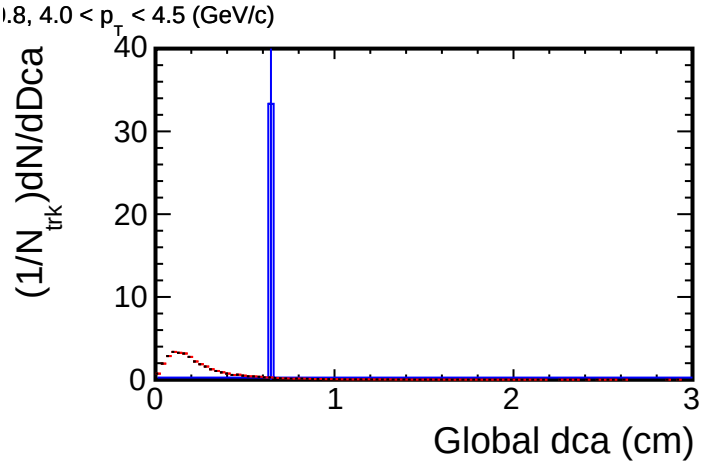


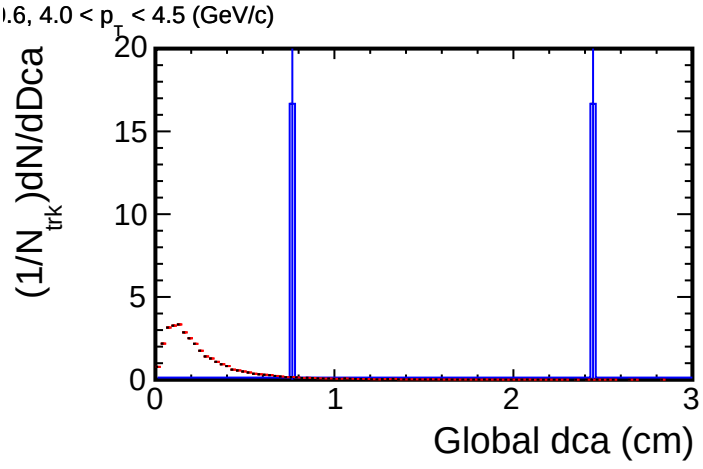


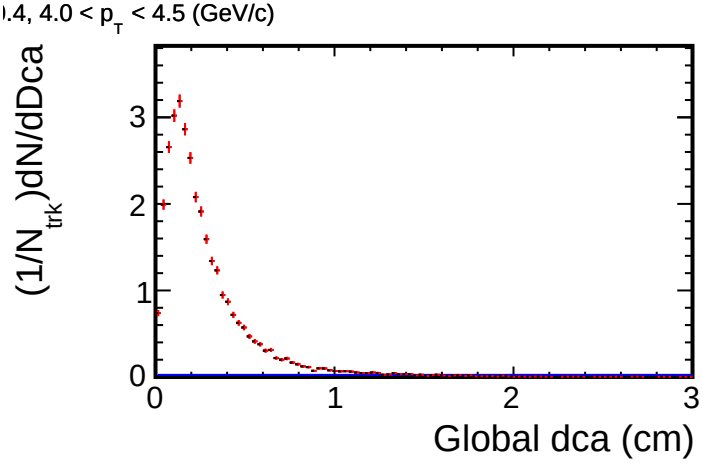
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

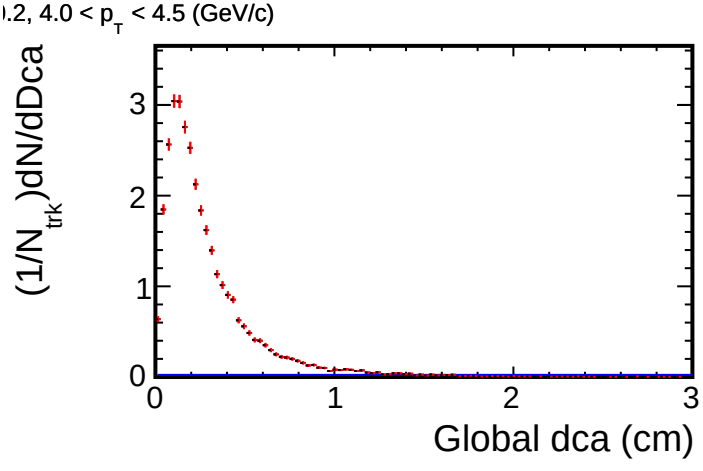
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

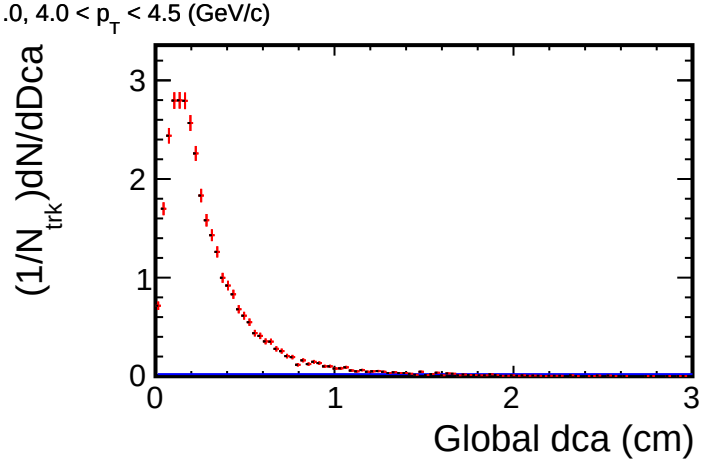
Dca distribution for (p_T, η) slices







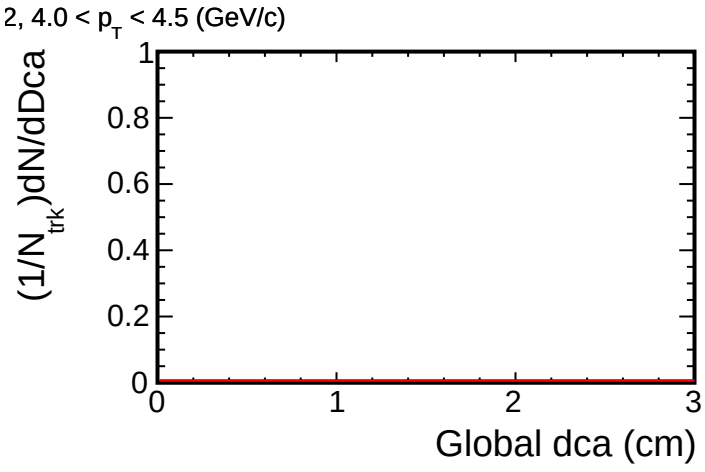


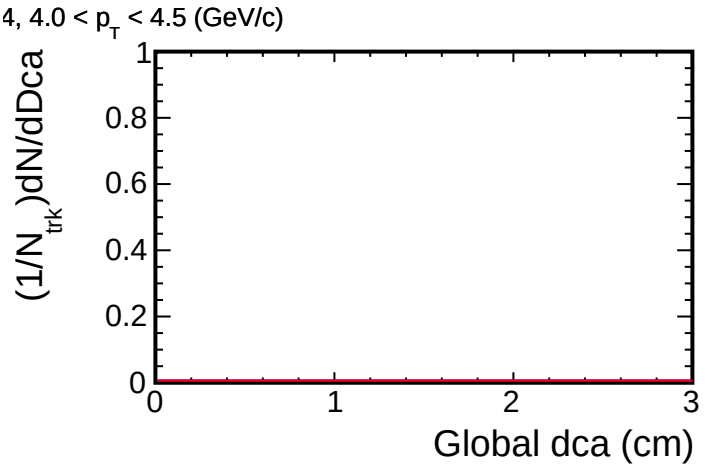


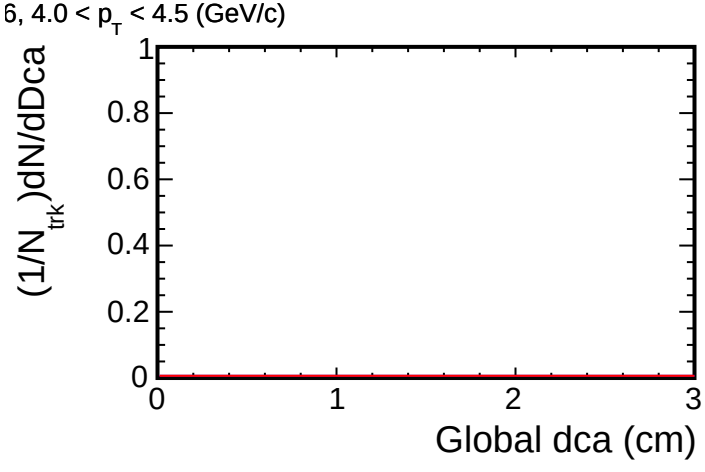
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

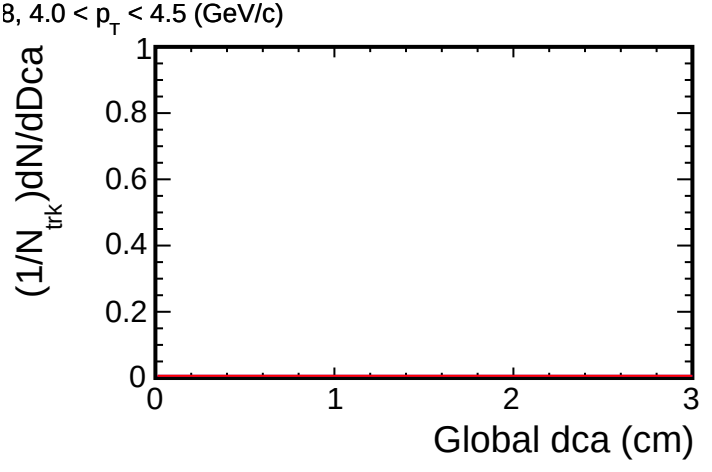
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

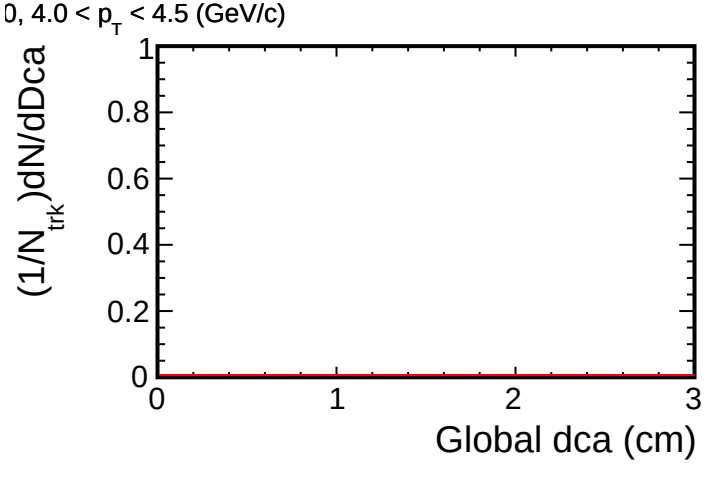
Dca distribution for (p_T, η) slices







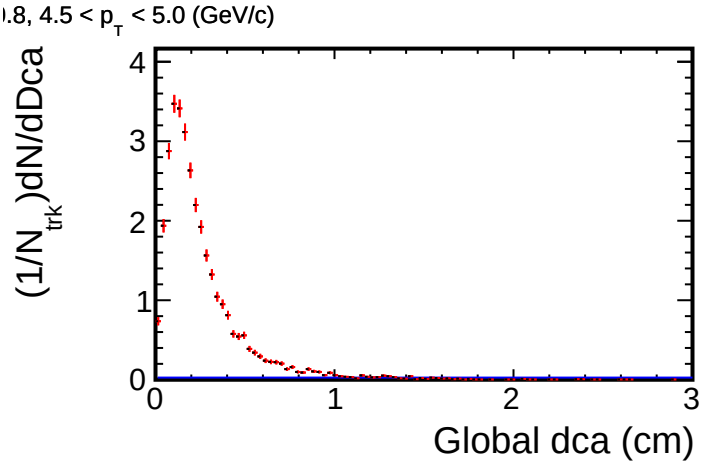


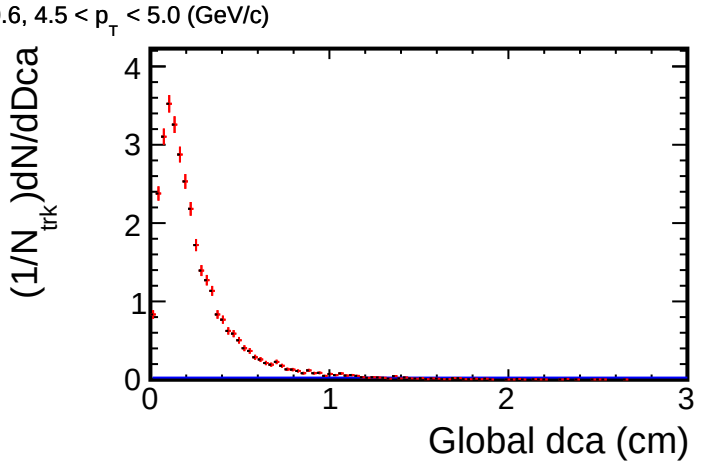


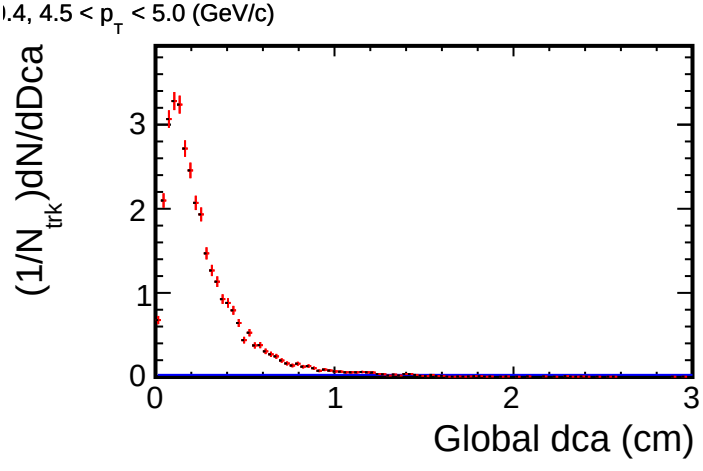
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

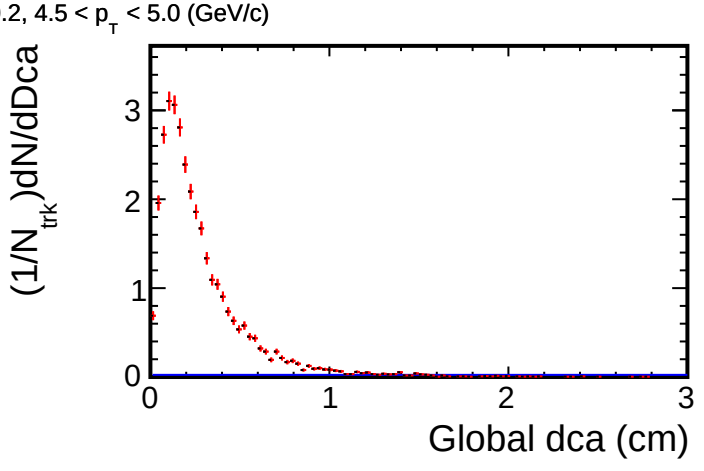
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

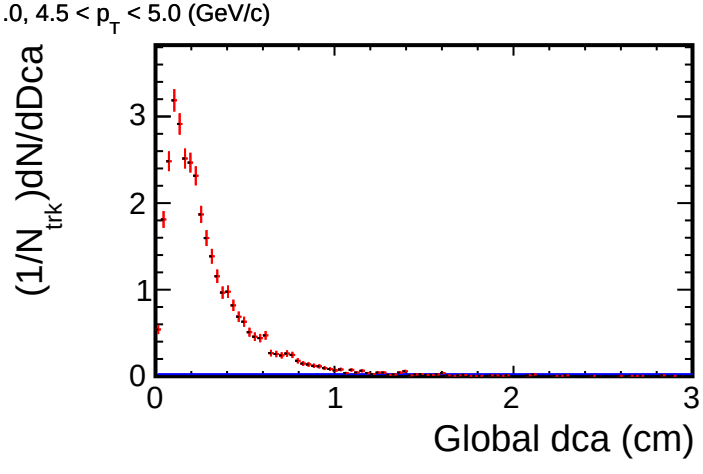
Dca distribution for (p_T, η) slices







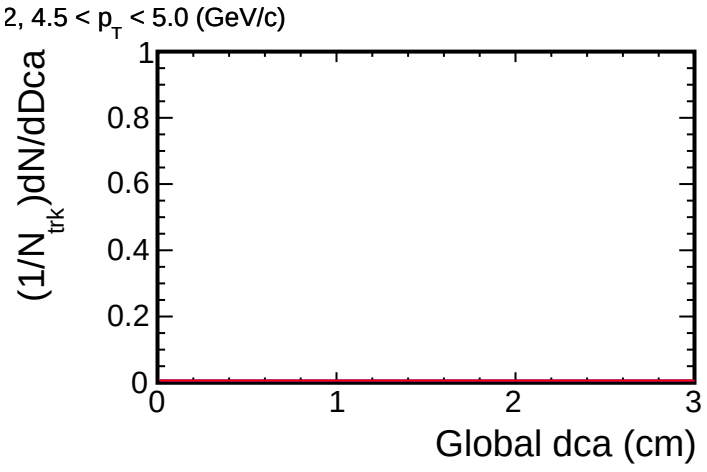


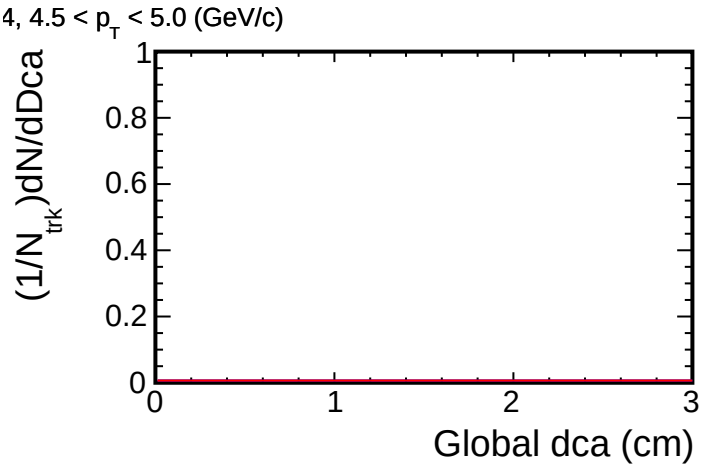


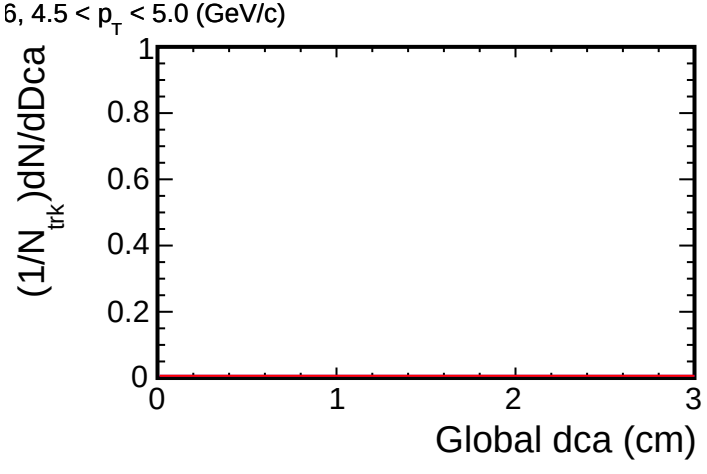
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

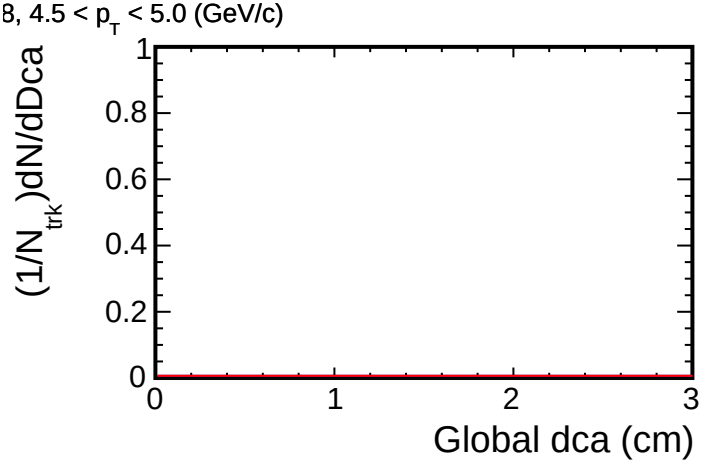
pi+
(PRIMARY, $|n\,\sigma_{pi+}|$<2 TPC)

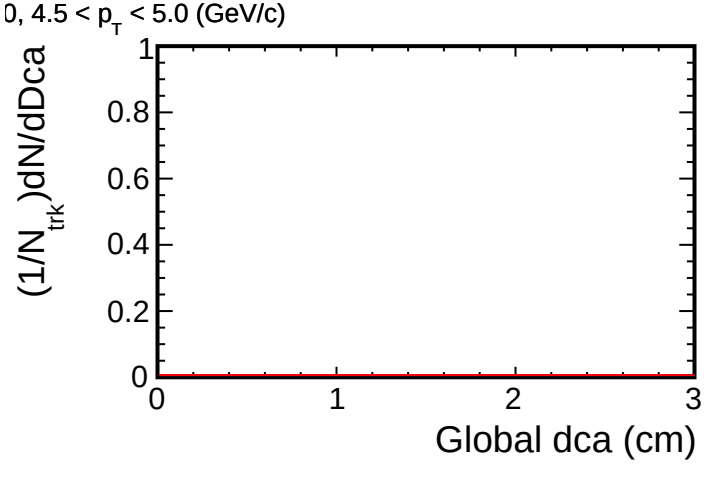
Dca distribution for (p_T, η) slices







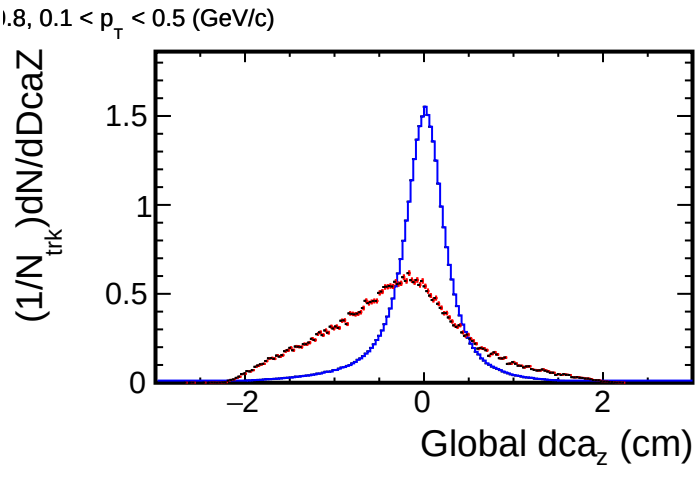


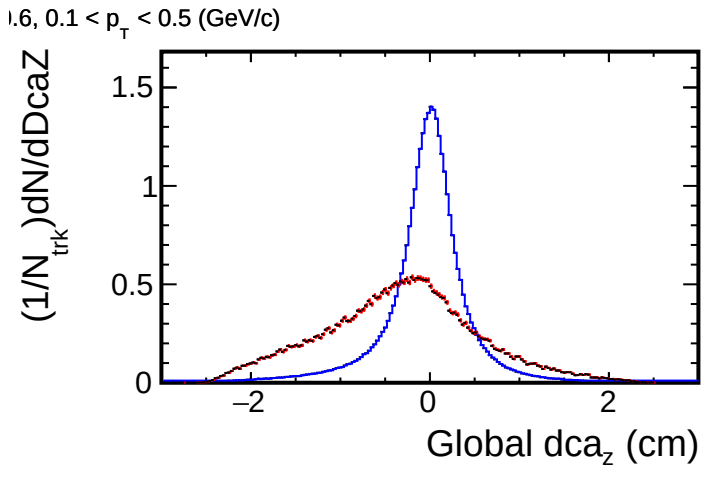


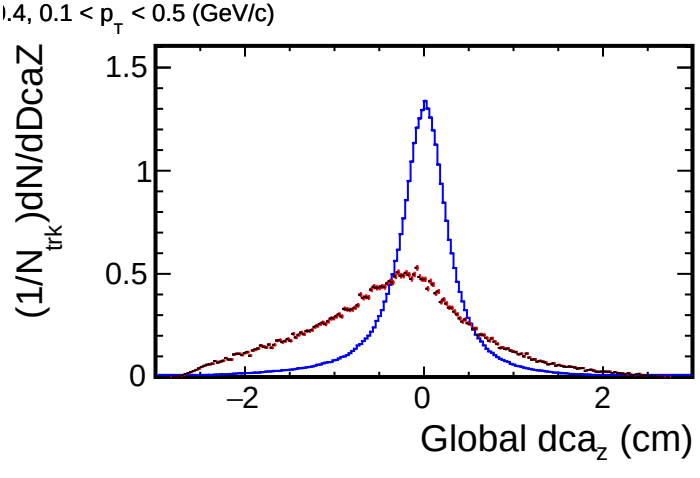
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

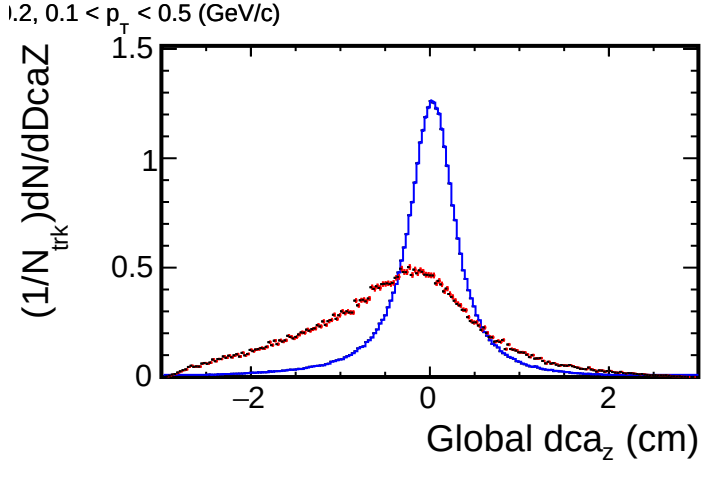
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

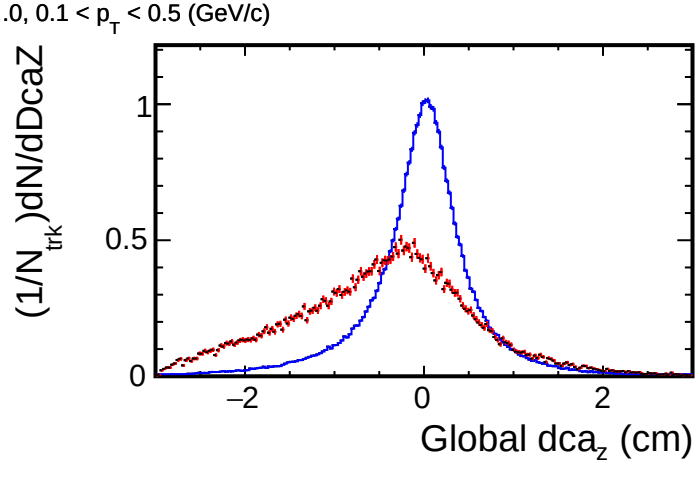
DcaZ distribution for (p_T, η) slices







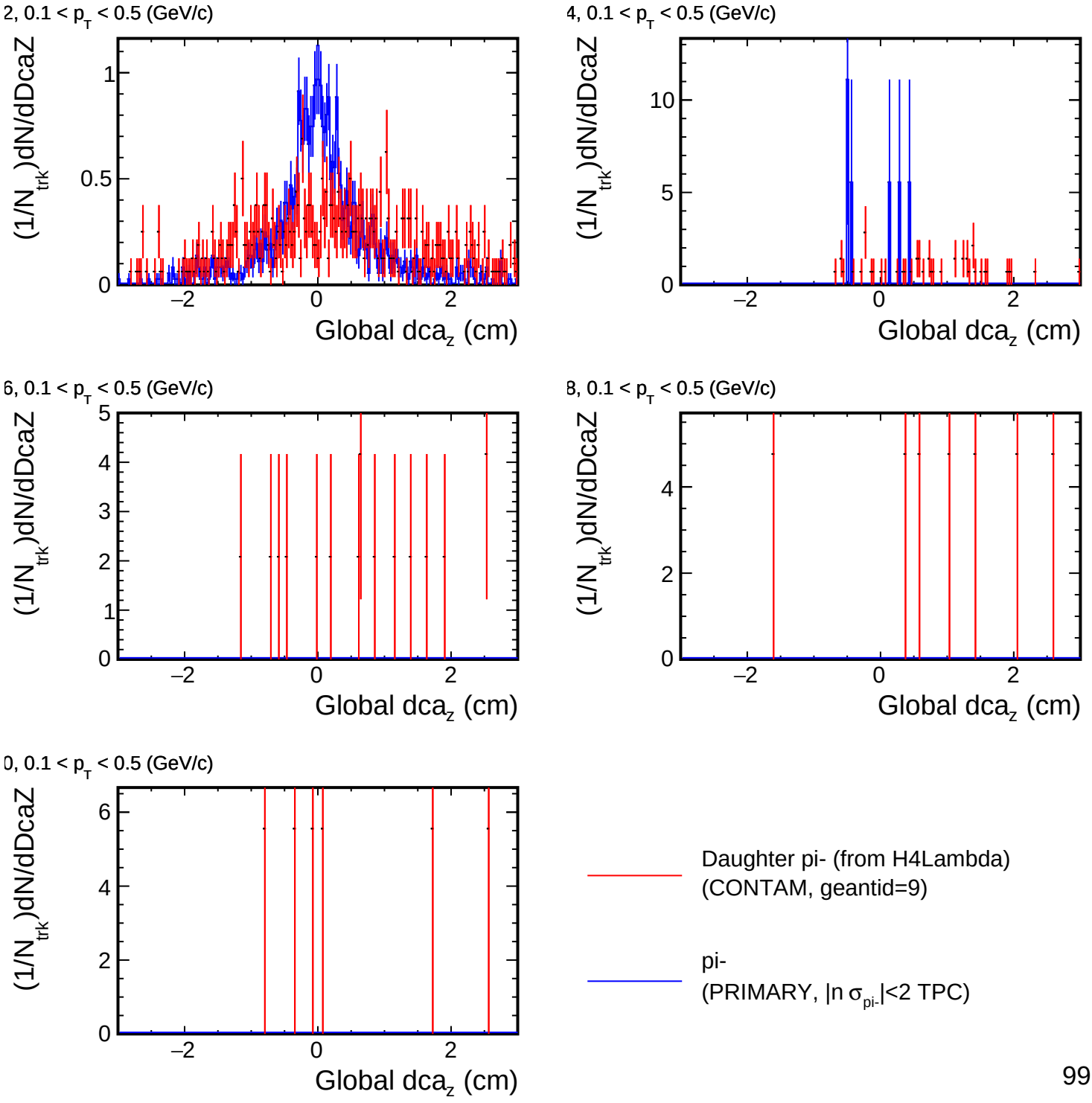




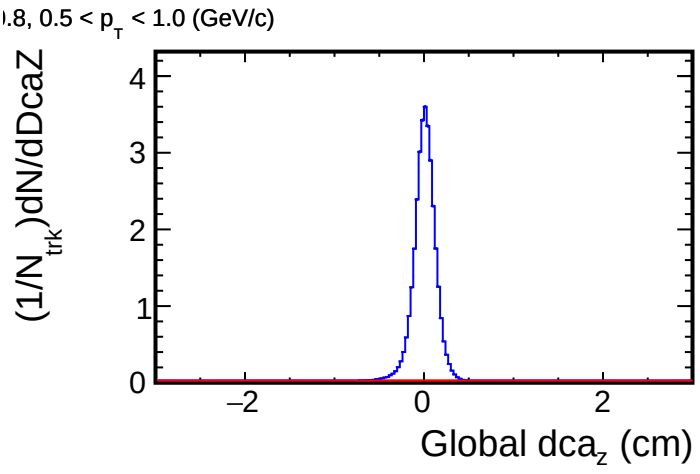
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

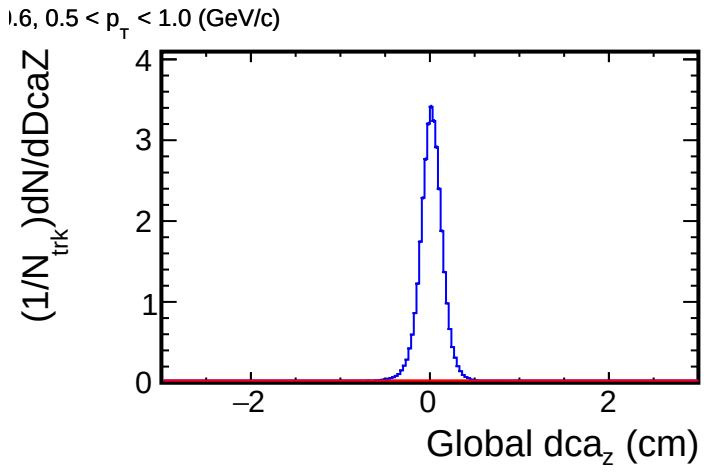
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

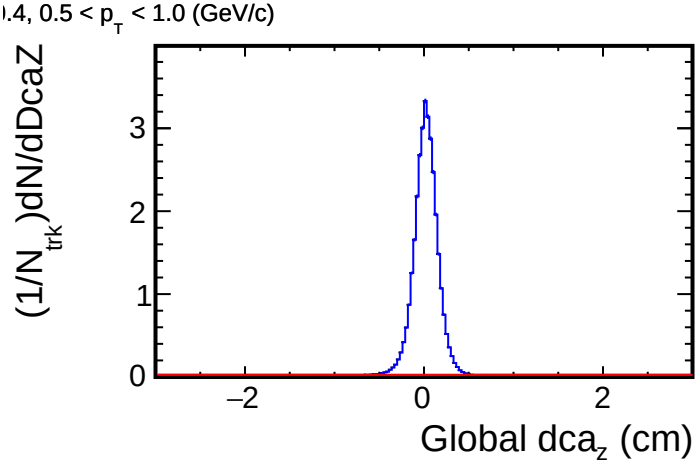
DcaZ distribution for (p_T, η) slices

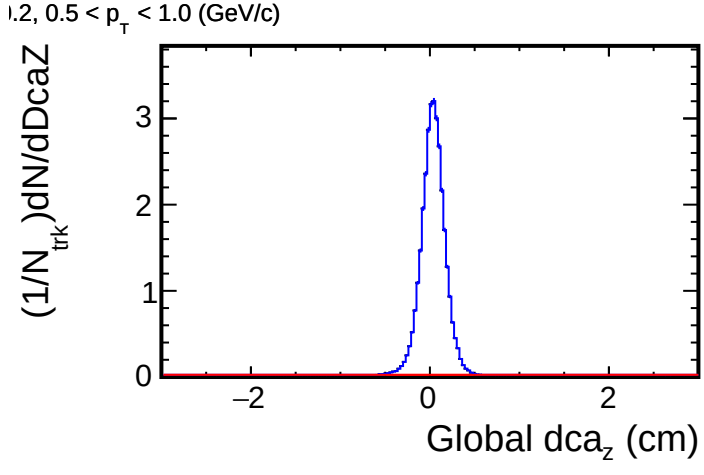


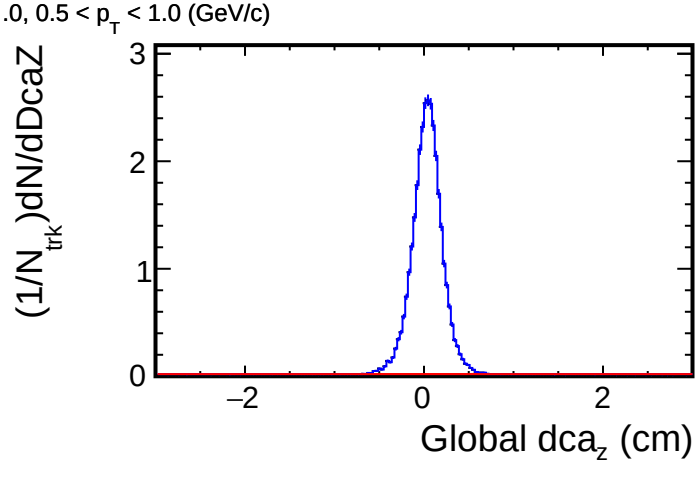
DcaZ distribution for (p_T, η) slices







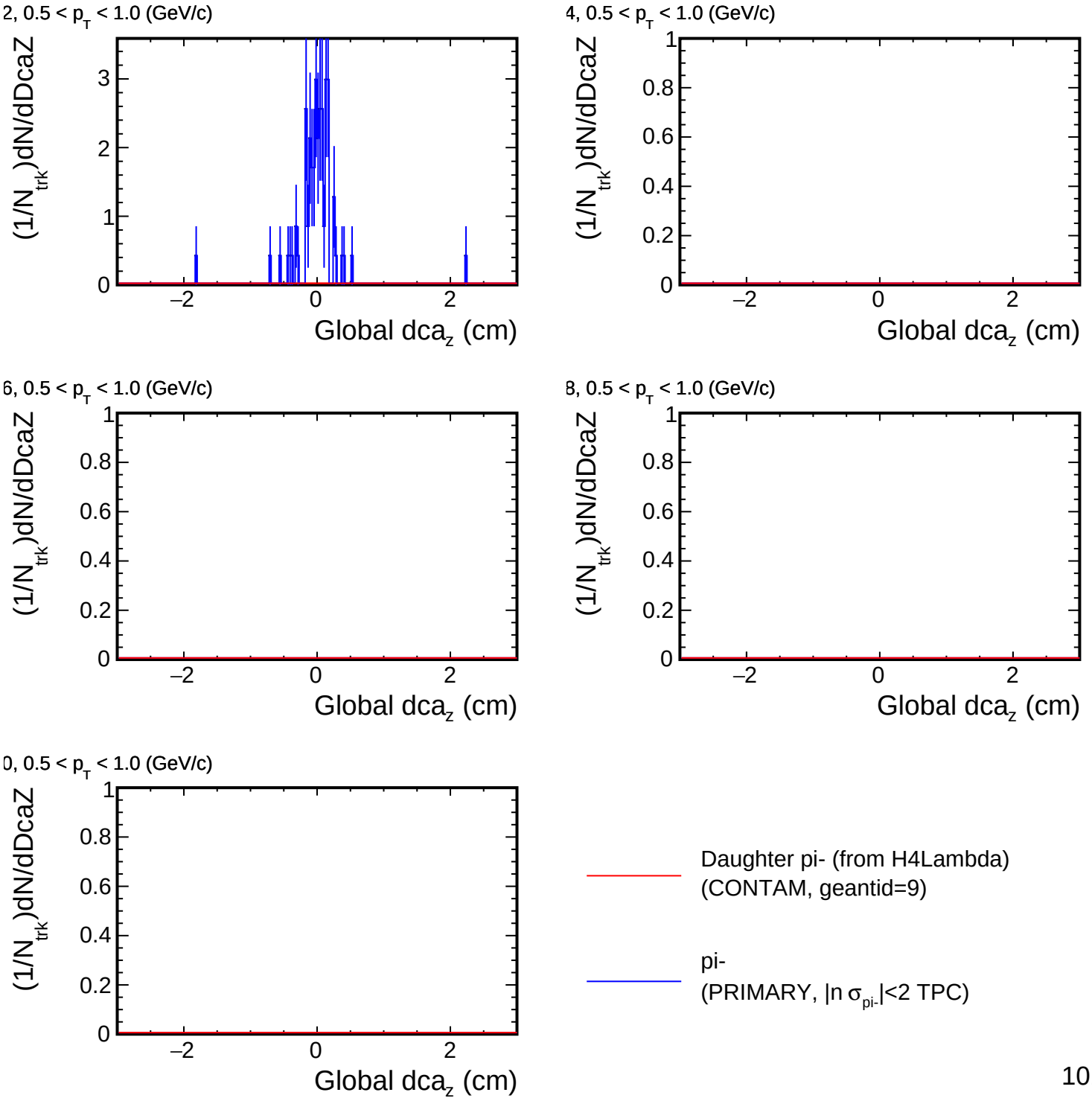




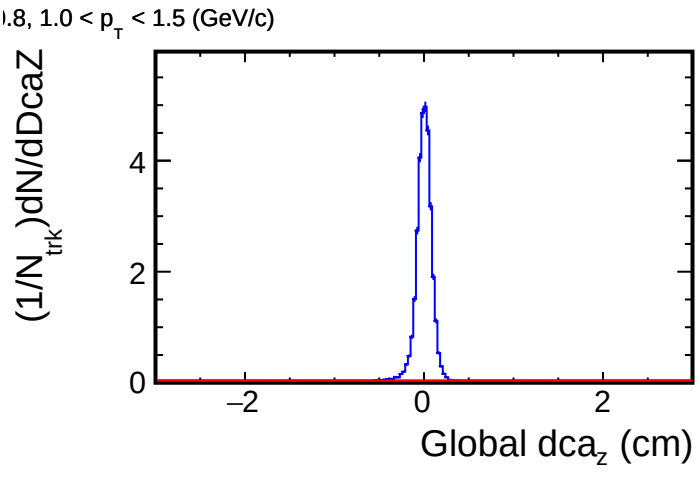
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

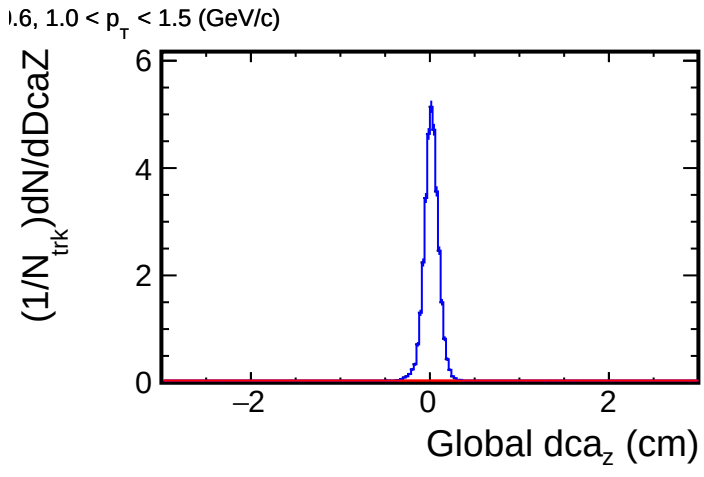
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

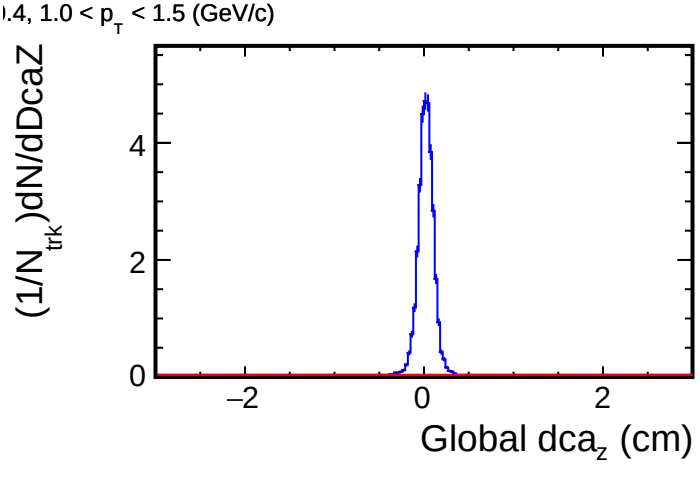
DcaZ distribution for (p_T, η) slices

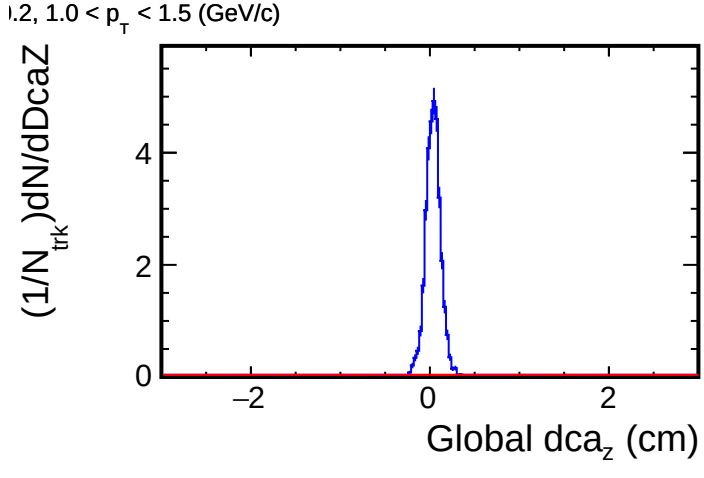


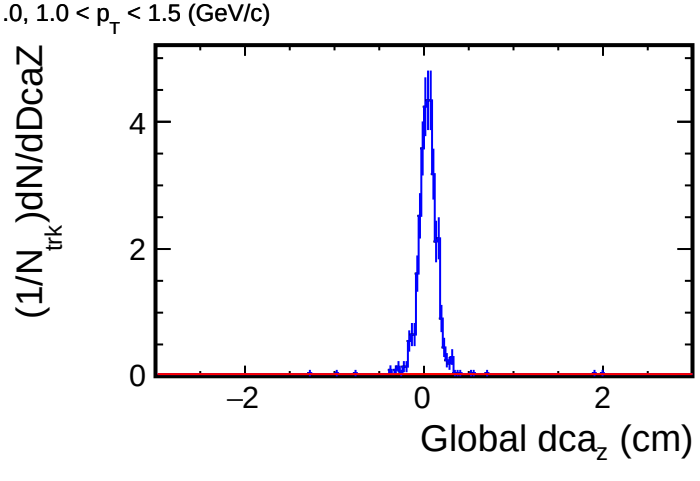
DcaZ distribution for (p_T, η) slices







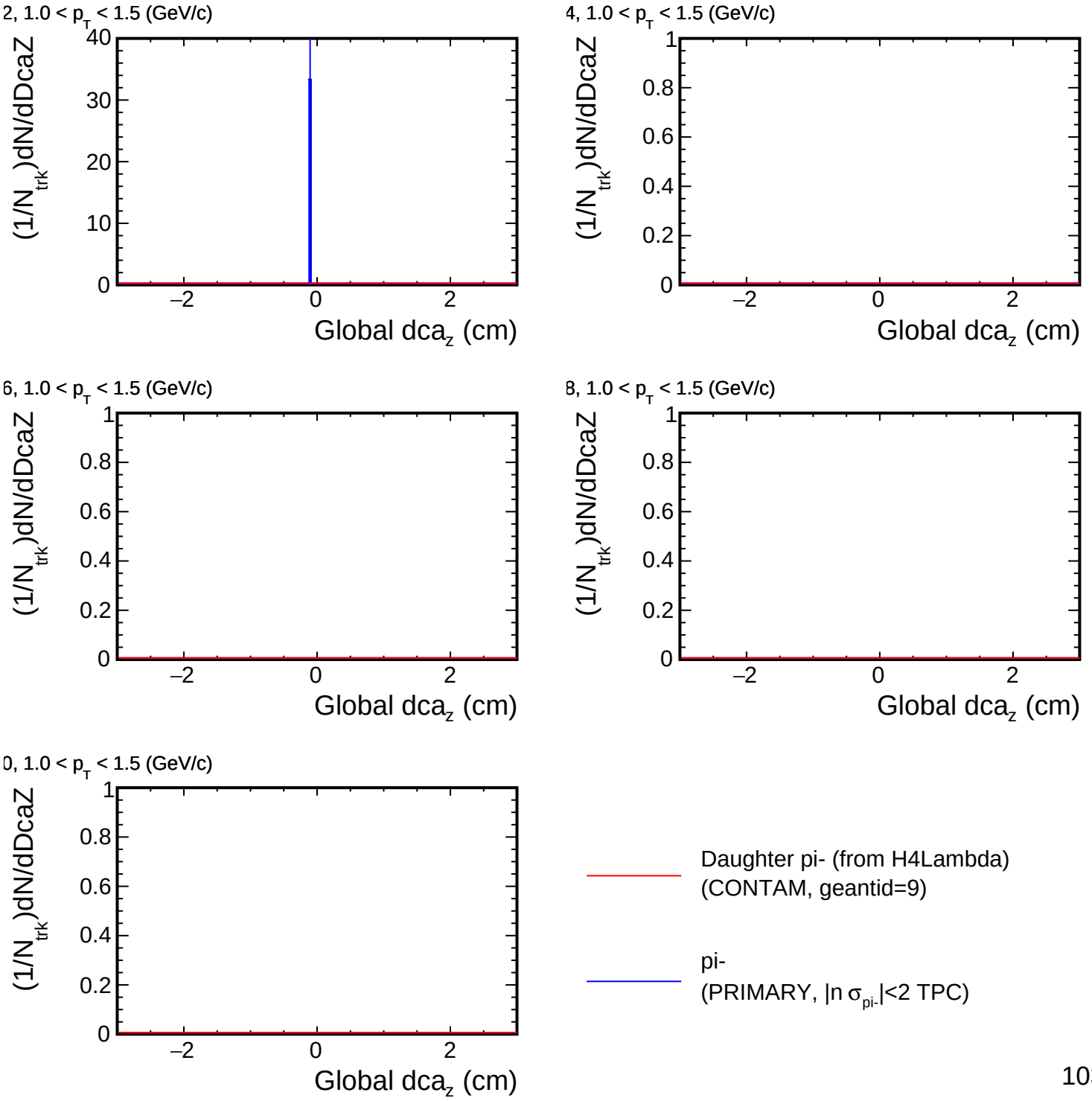




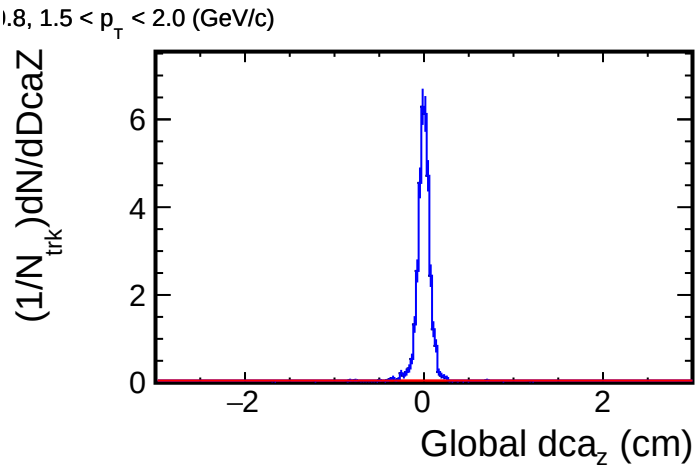
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

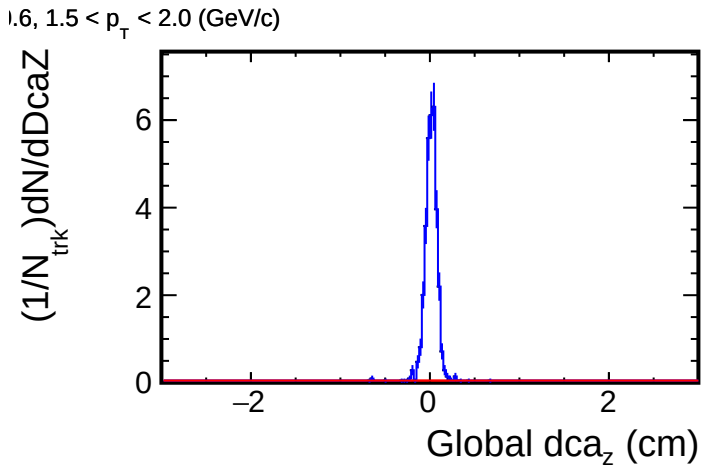
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

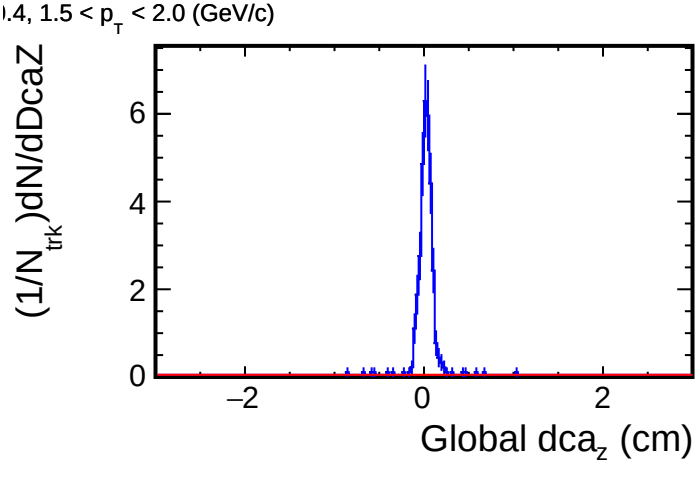
DcaZ distribution for (p_T, η) slices

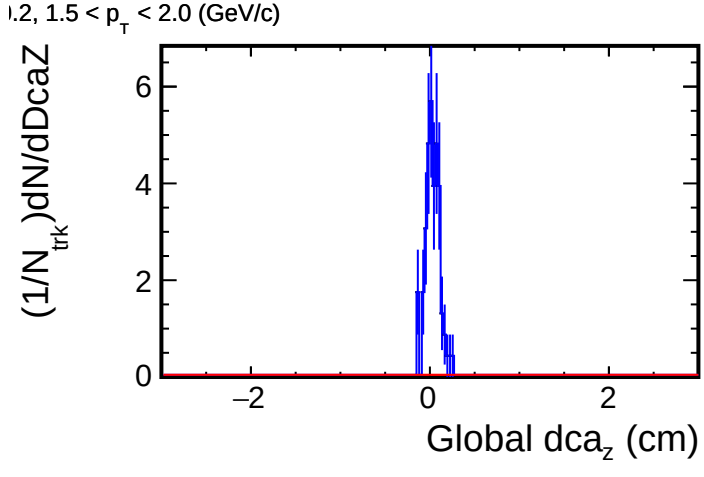


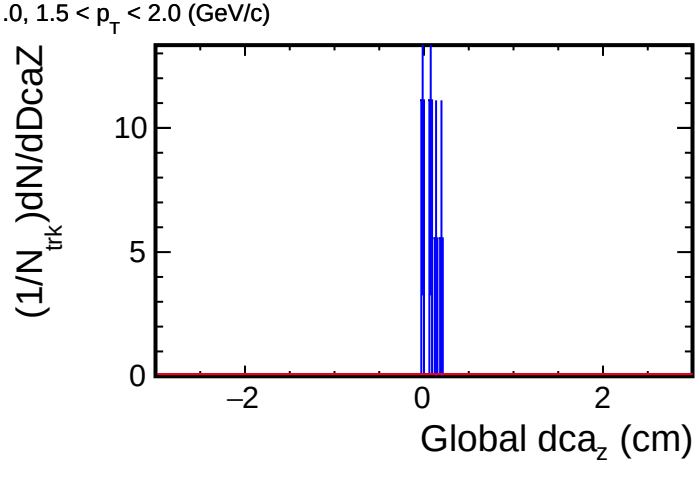
DcaZ distribution for (p_T, η) slices









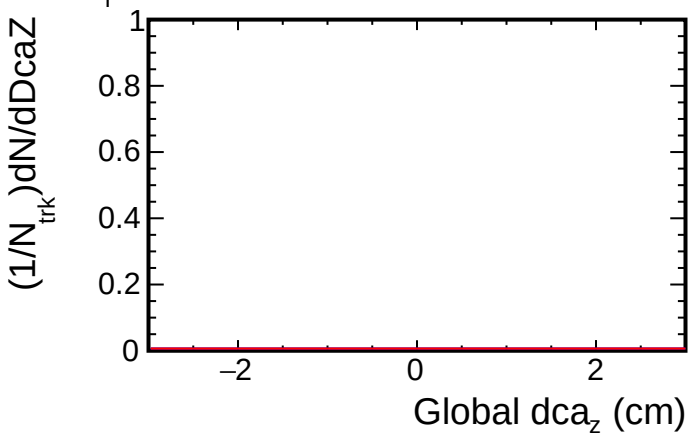


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

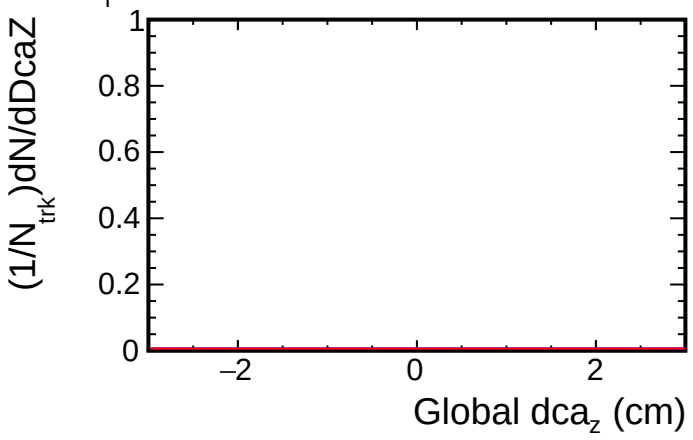
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

DcaZ distribution for (p_T, η) slices

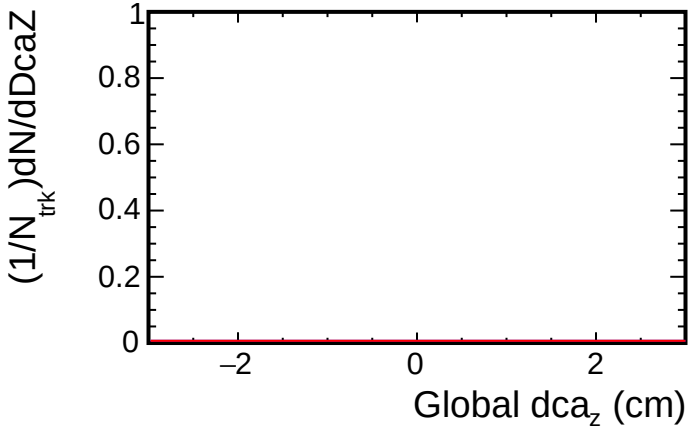
2, 1.5 < p_T < 2.0 (GeV/c)



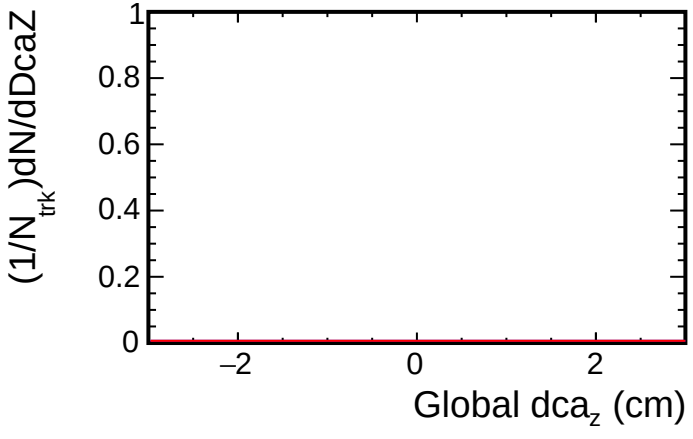
4, 1.5 < p_T < 2.0 (GeV/c)



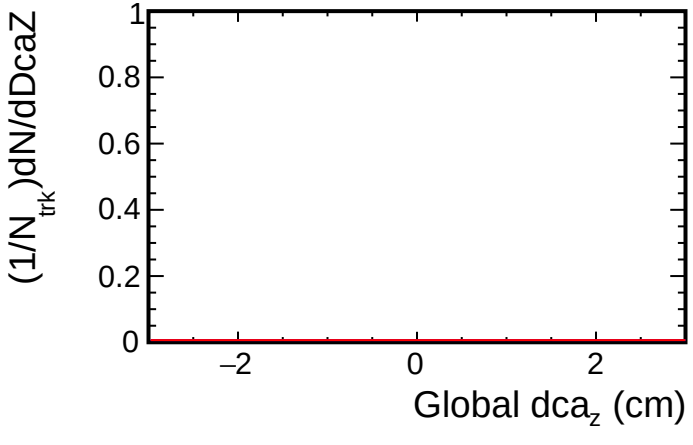
6, 1.5 < p_T < 2.0 (GeV/c)



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



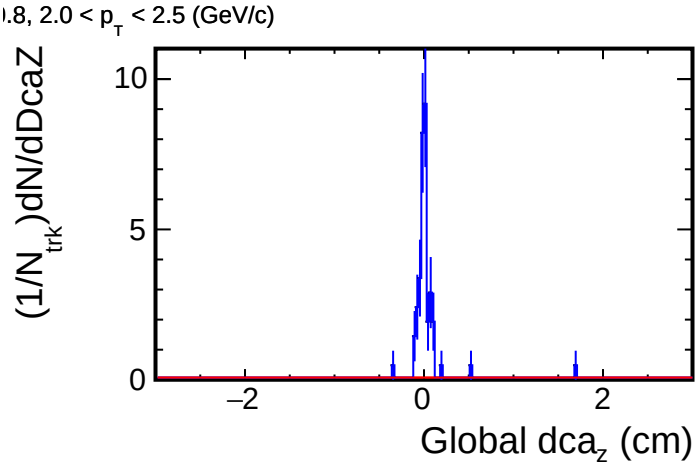
0, 1.5 < p_T < 2.0 (GeV/c)

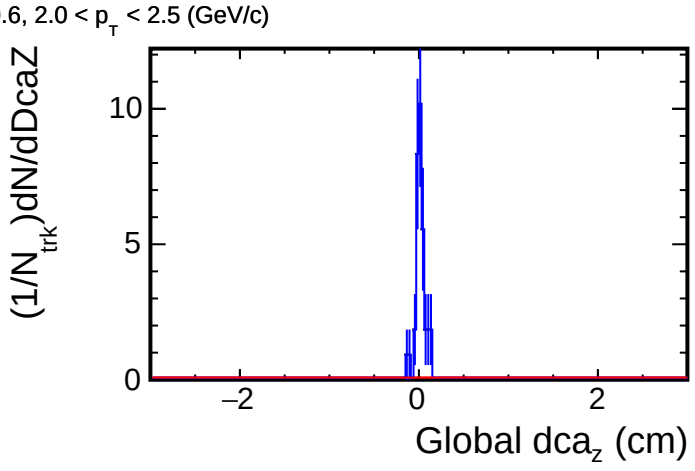


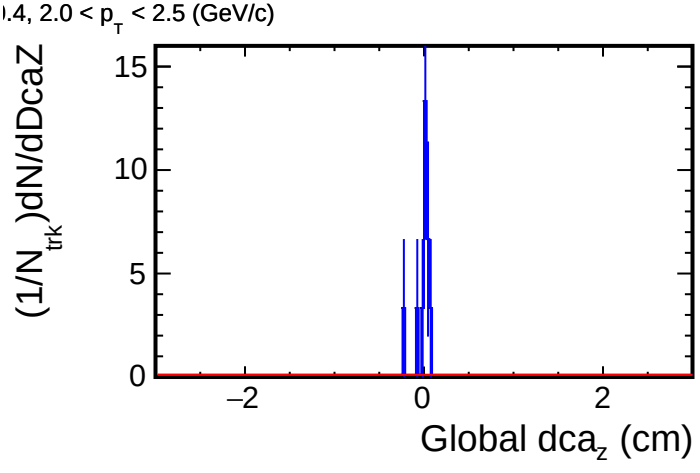
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

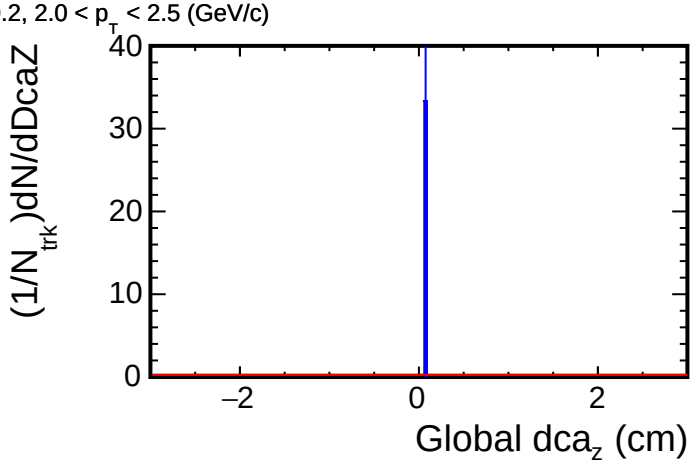
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

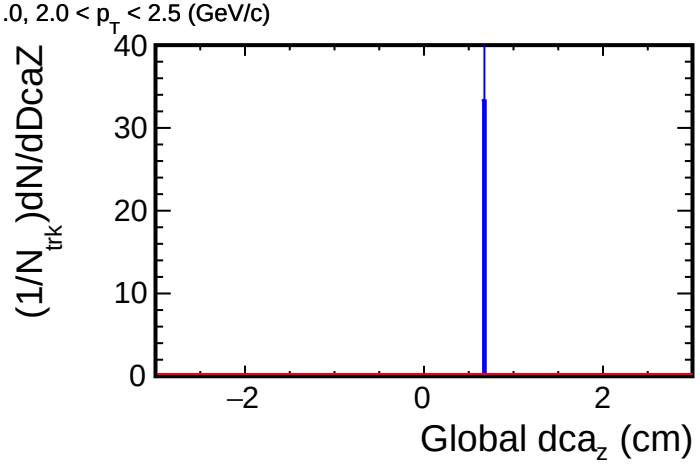
DcaZ distribution for (p_T, η) slices







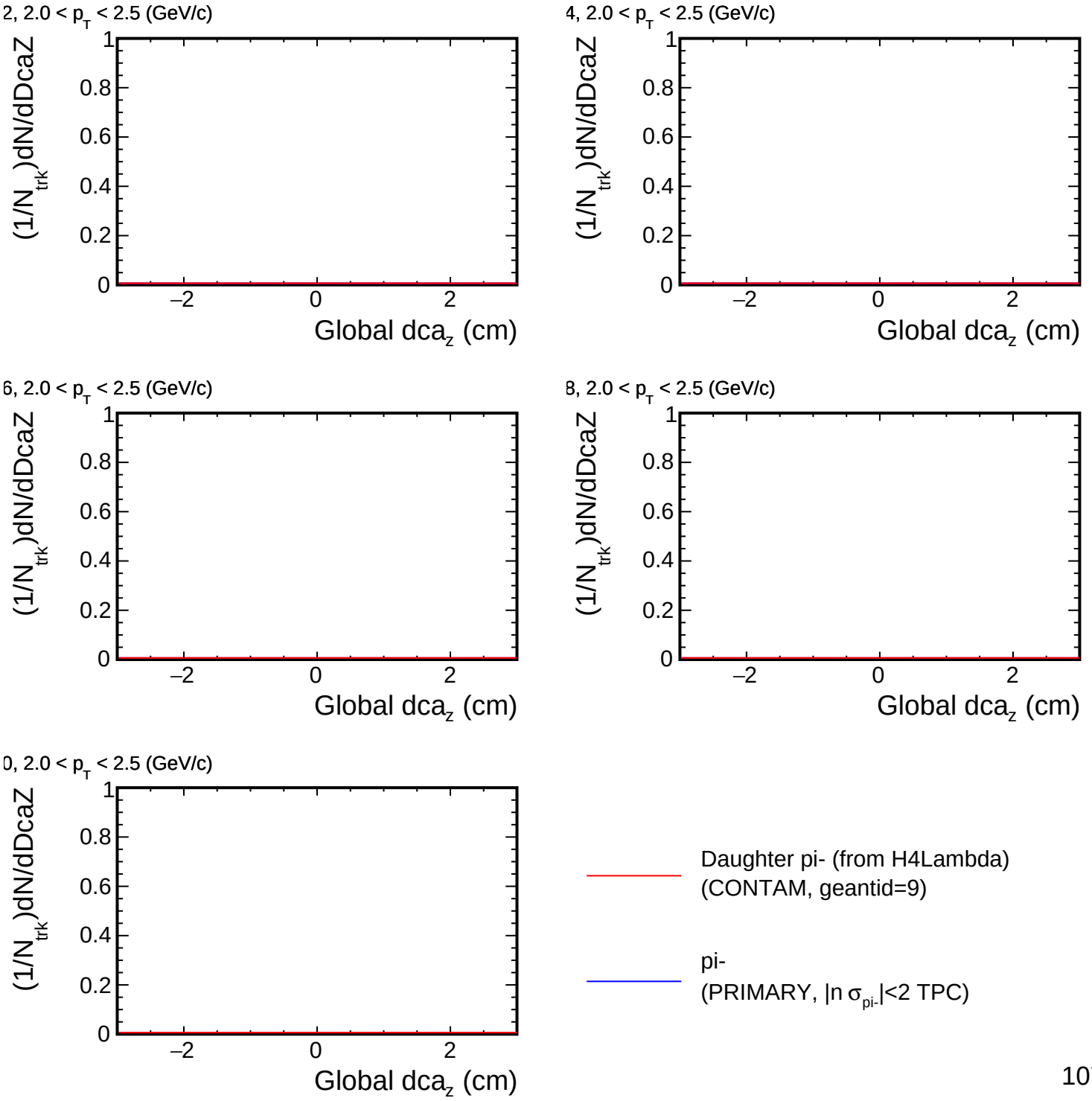




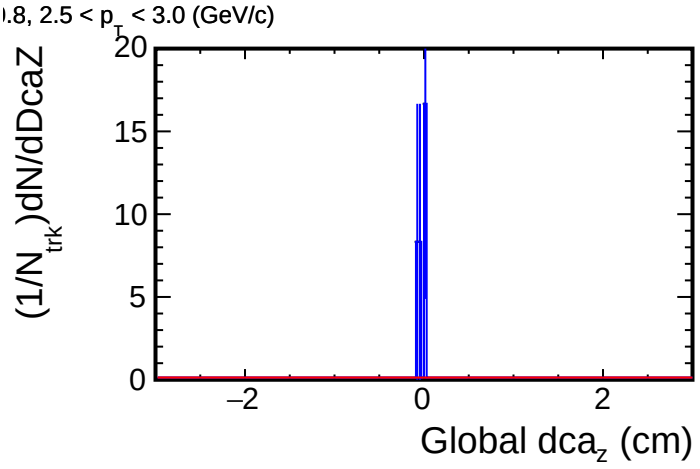
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

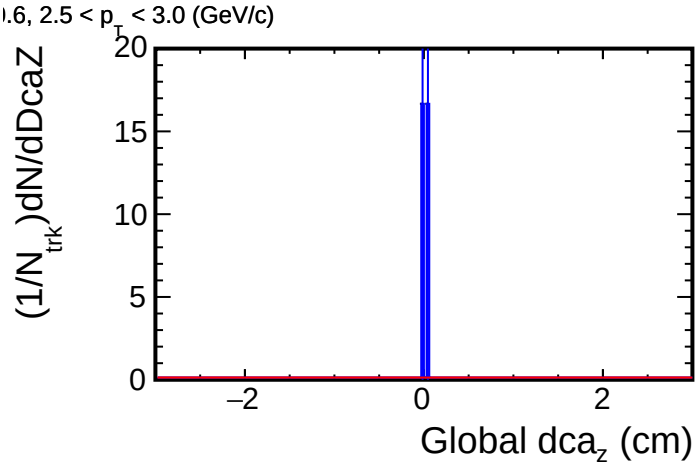
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

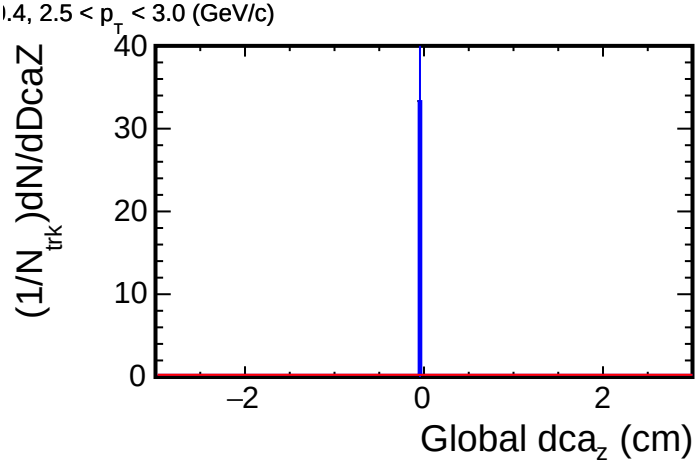
DcaZ distribution for (p_T, η) slices

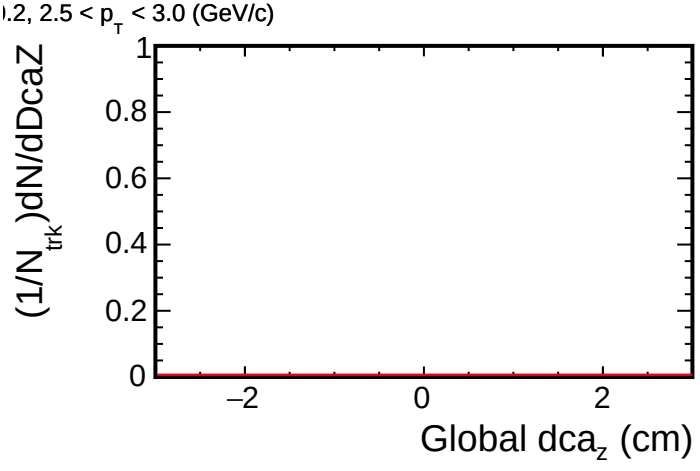


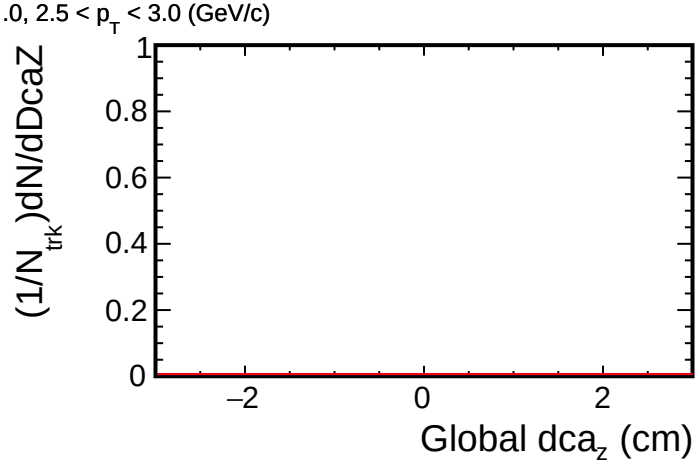
DcaZ distribution for (p_T, η) slices









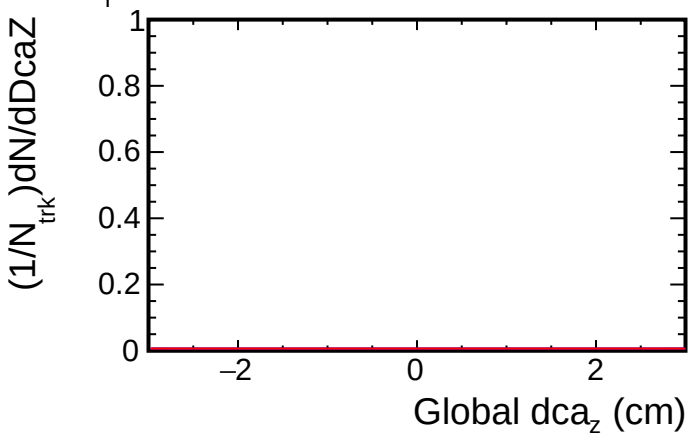


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

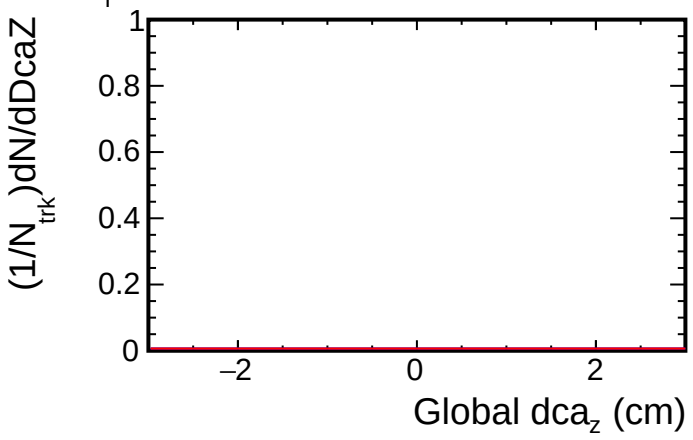
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

DcaZ distribution for (p_T, η) slices

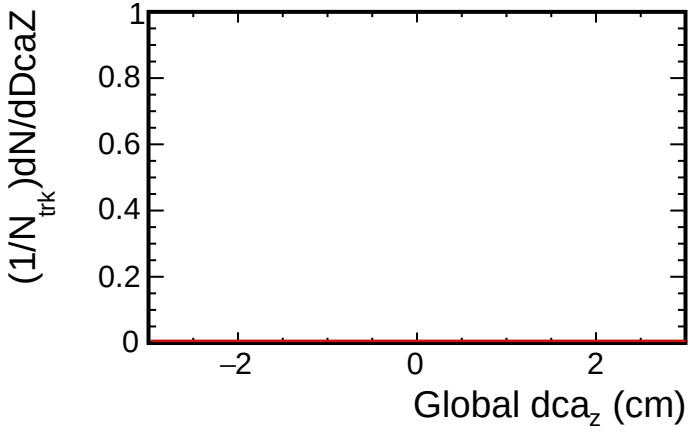
2, 2.5 < p_T < 3.0 (GeV/c)



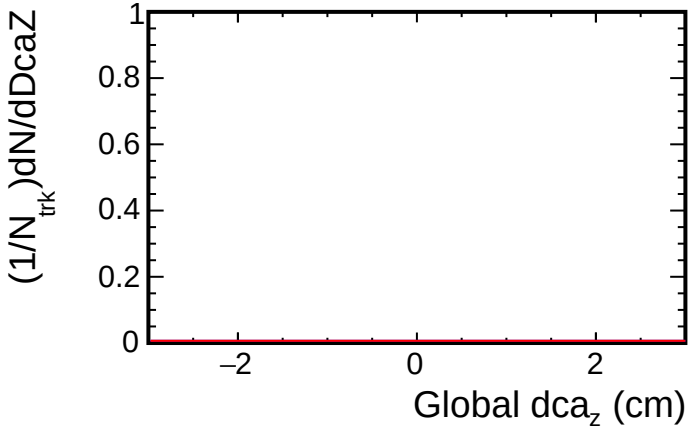
4, 2.5 < p_T < 3.0 (GeV/c)



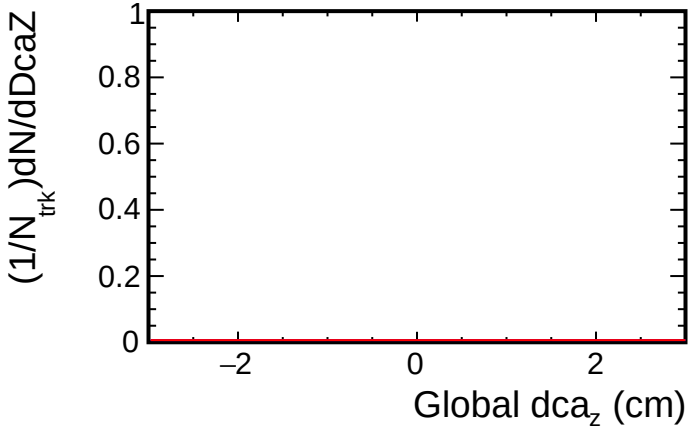
6, 2.5 < p_T < 3.0 (GeV/c)



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



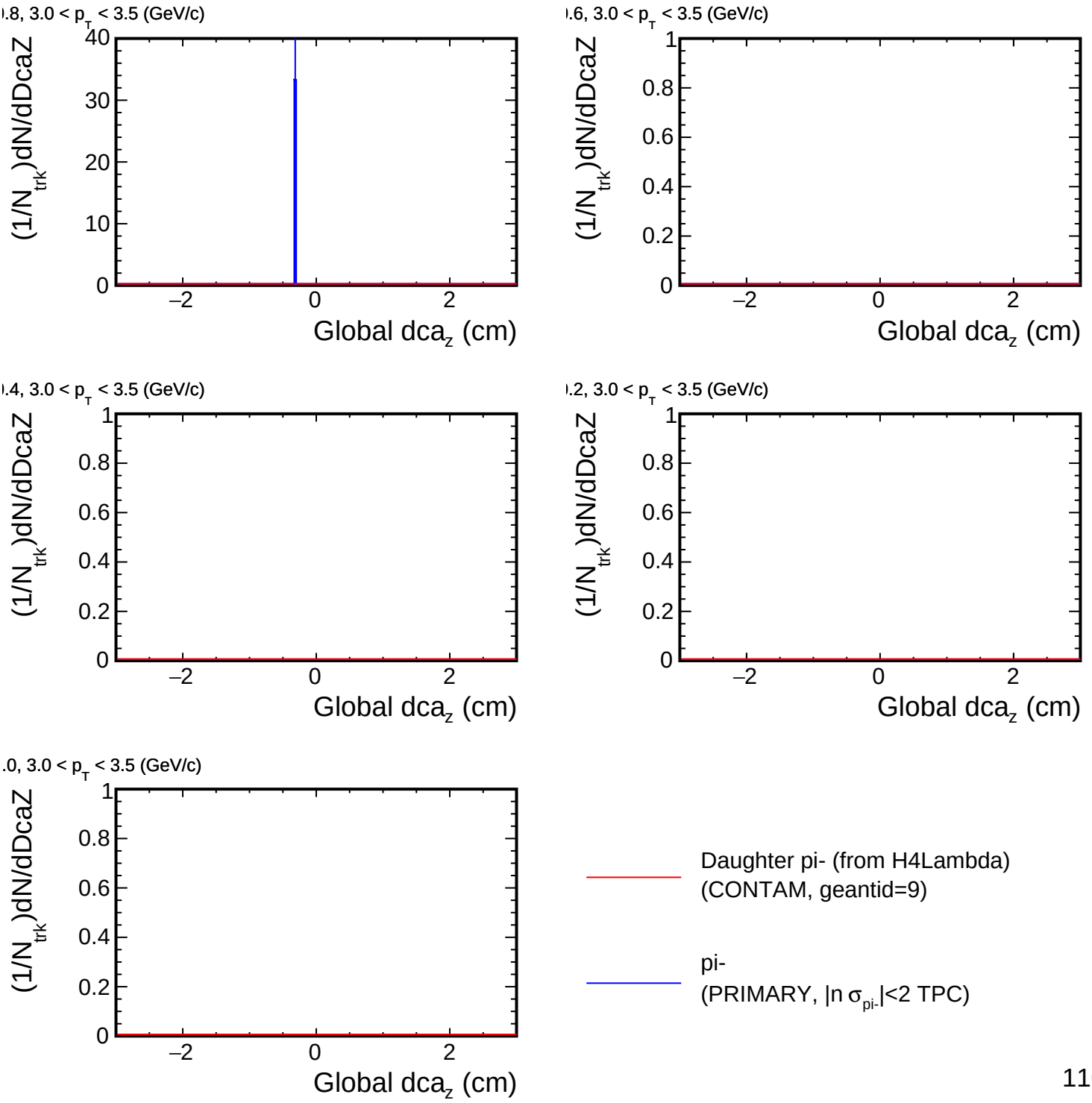
0, 2.5 < p_T < 3.0 (GeV/c)



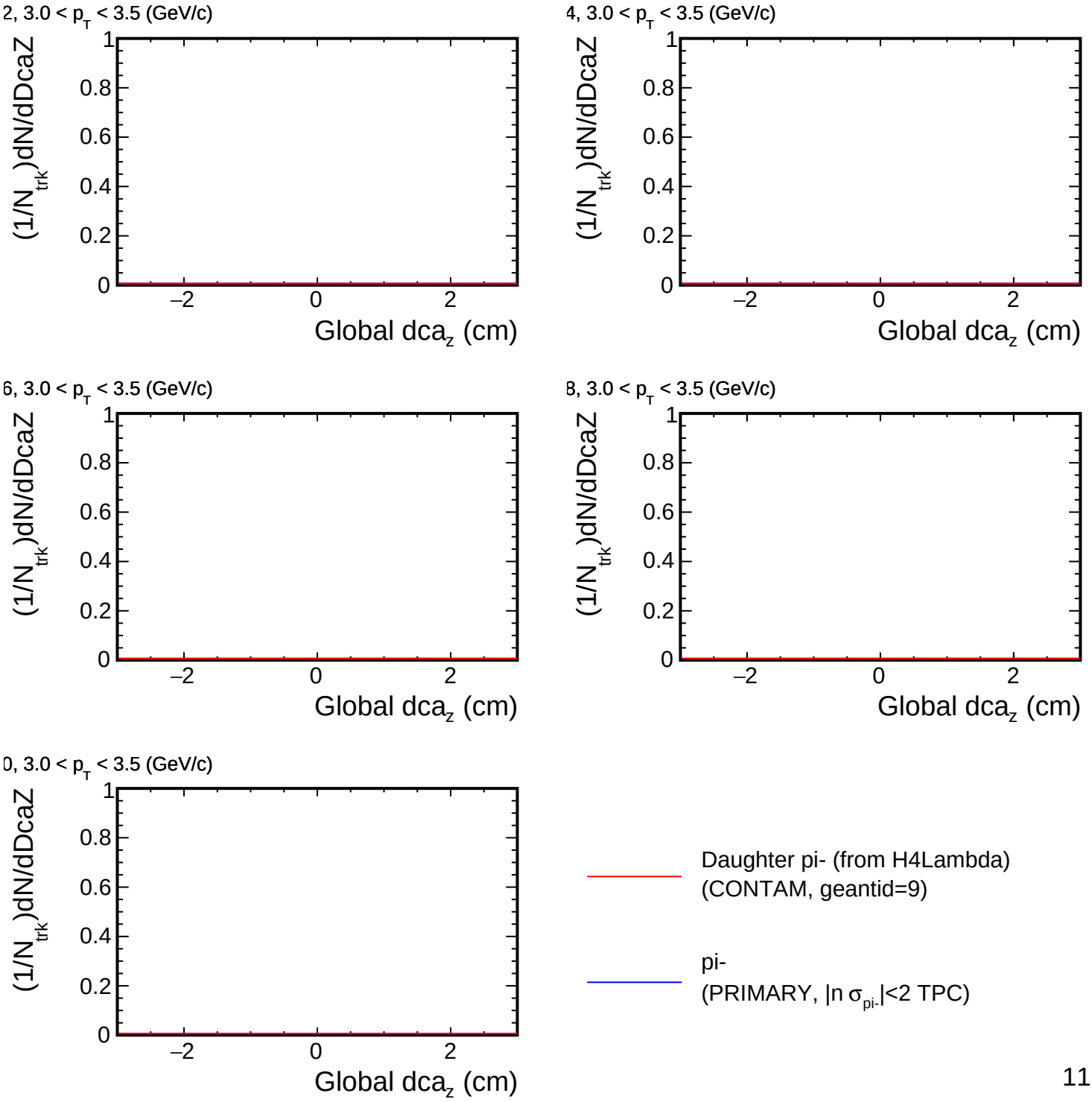
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

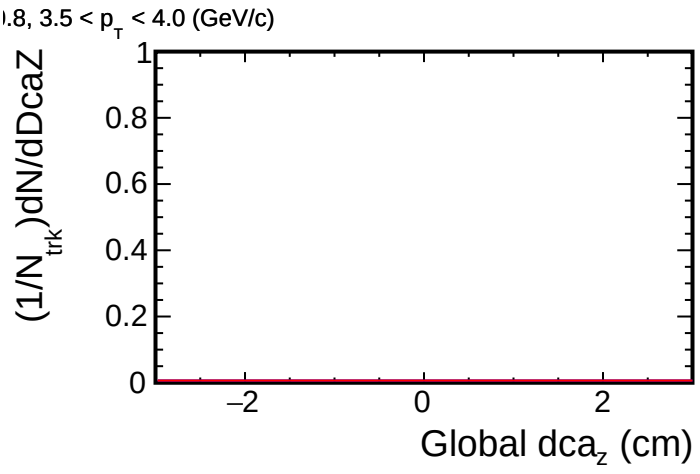
DcaZ distribution for (p_T, η) slices

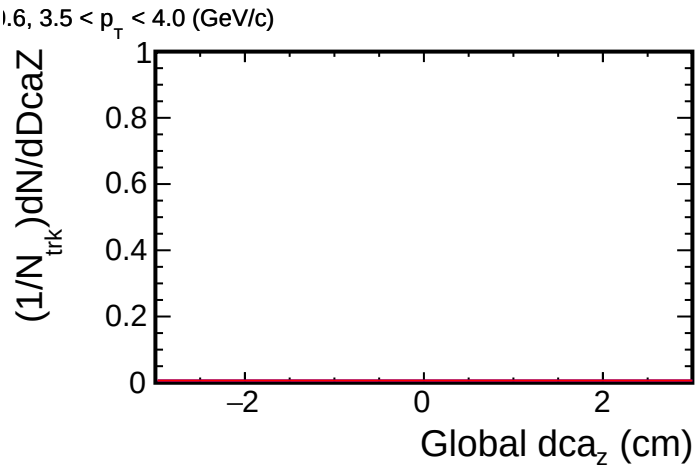


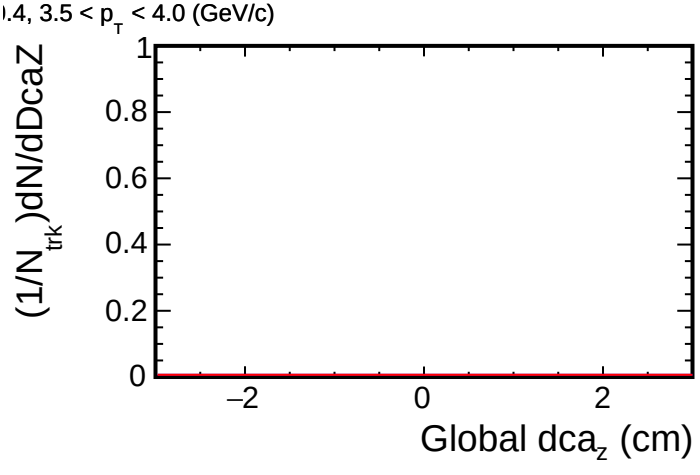
DcaZ distribution for (p_T, η) slices

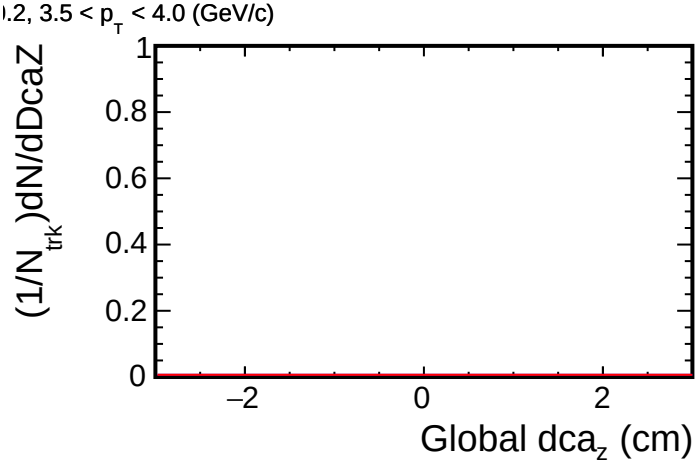


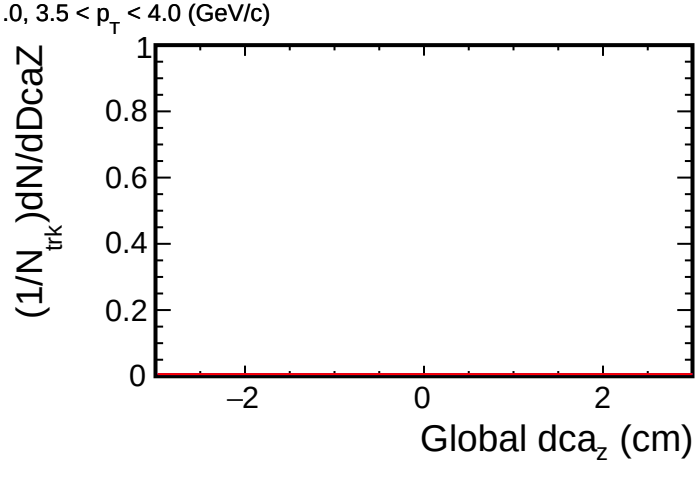
DcaZ distribution for (p_T, η) slices









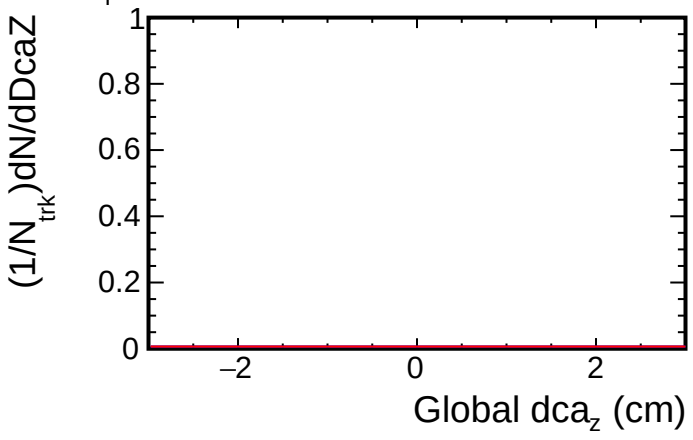


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

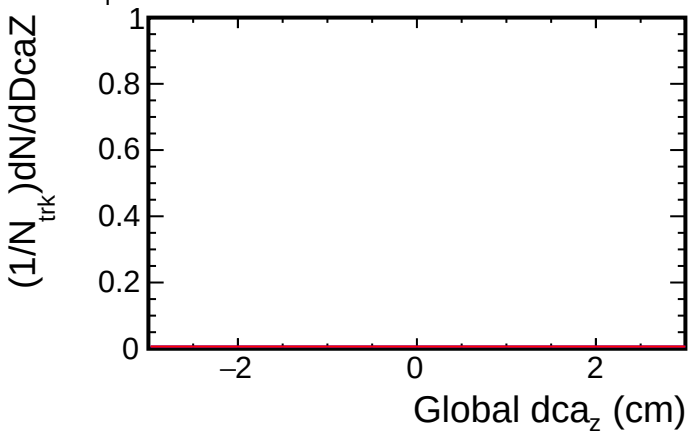
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

DcaZ distribution for (p_T, η) slices

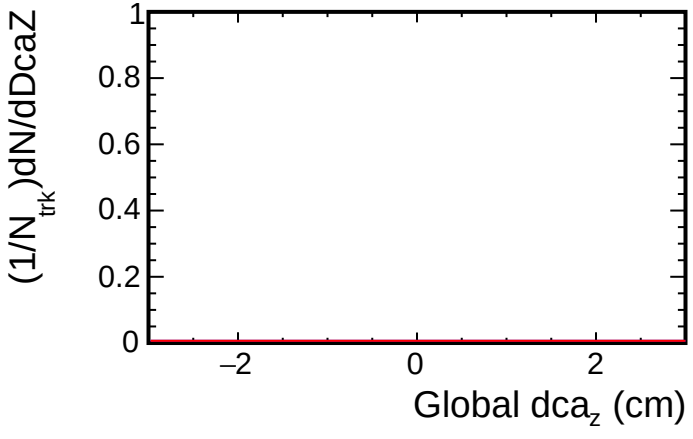
2, 3.5 < p_T < 4.0 (GeV/c)



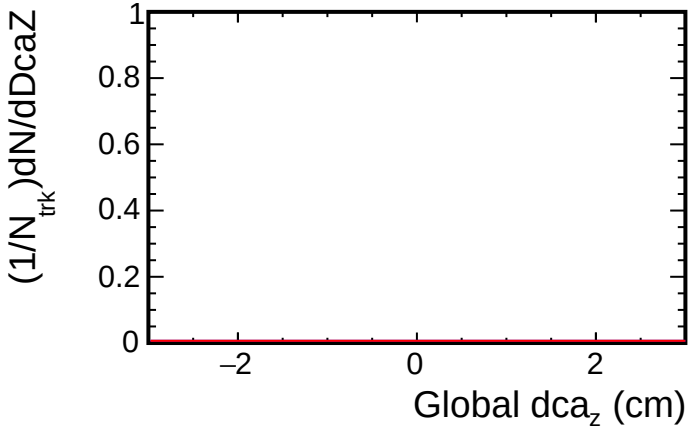
4, 3.5 < p_T < 4.0 (GeV/c)



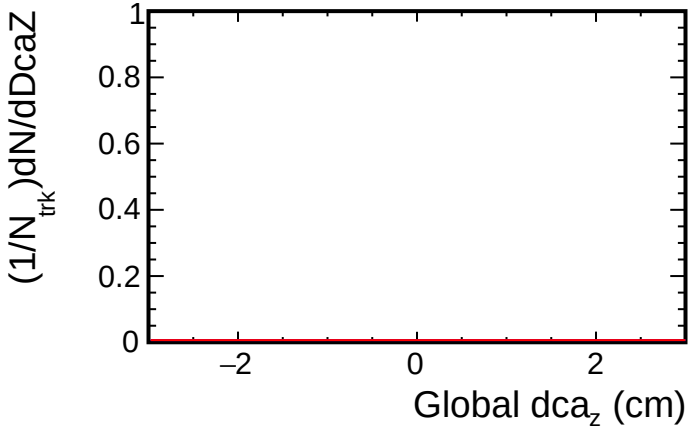
6, 3.5 < p_T < 4.0 (GeV/c)



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



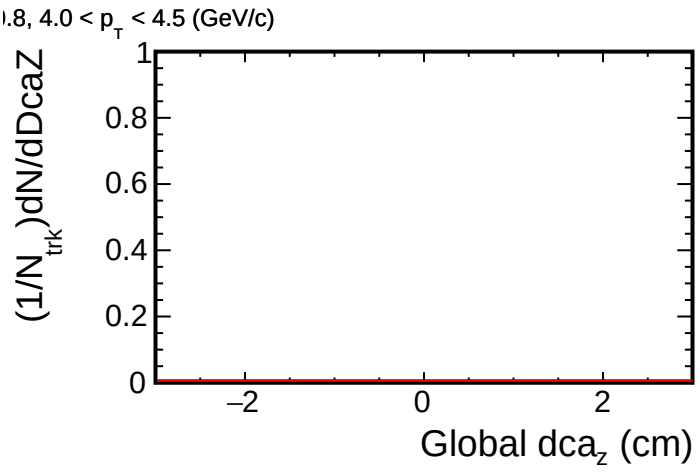
0, 3.5 < p_T < 4.0 (GeV/c)

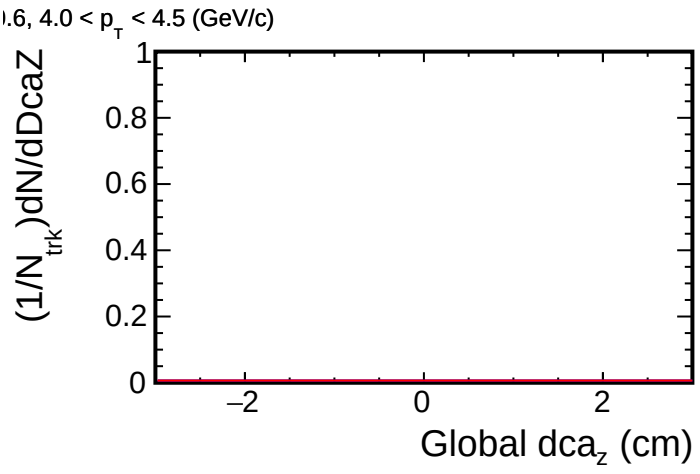


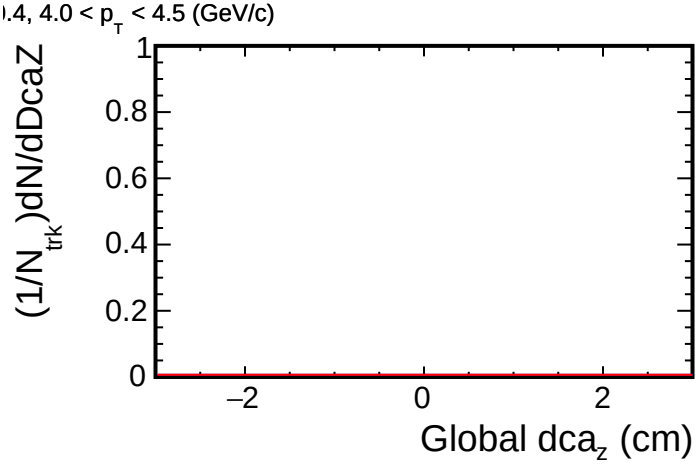
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

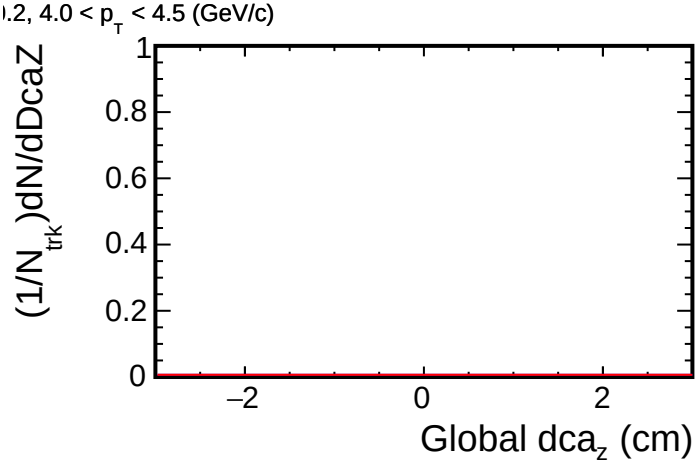
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

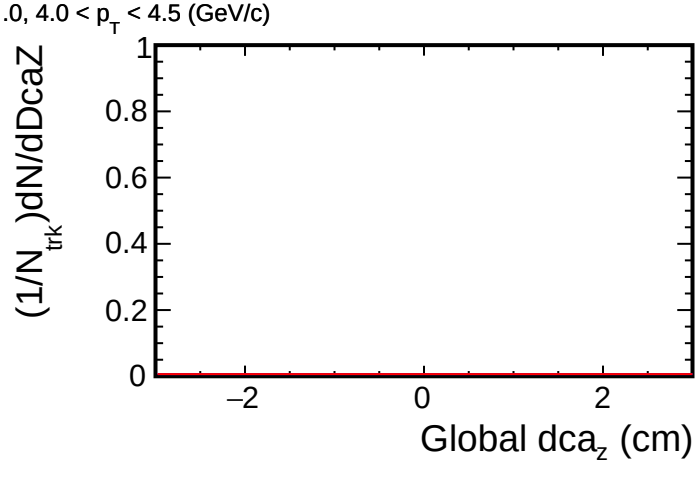
DcaZ distribution for (p_T, η) slices









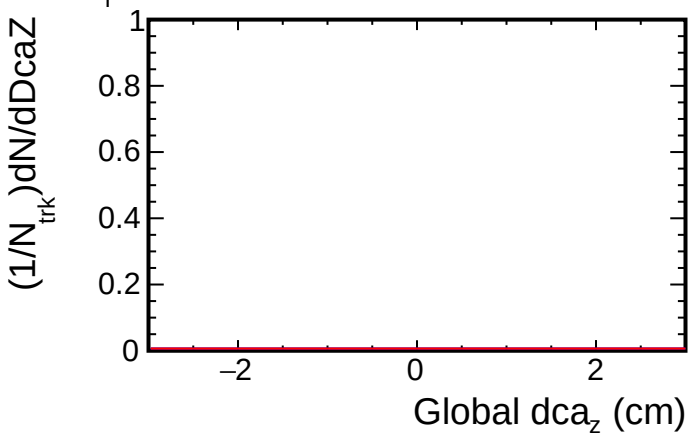


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

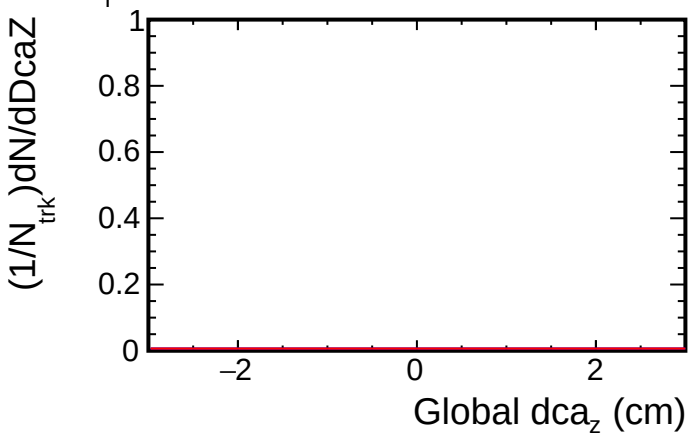
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

DcaZ distribution for (p_T, η) slices

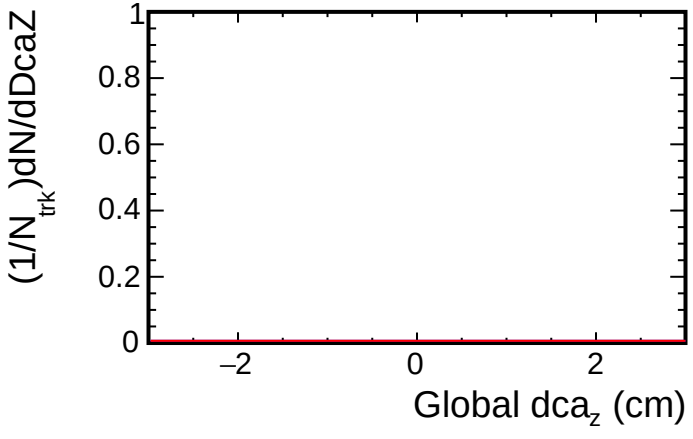
2, 4.0 < p_T < 4.5 (GeV/c)



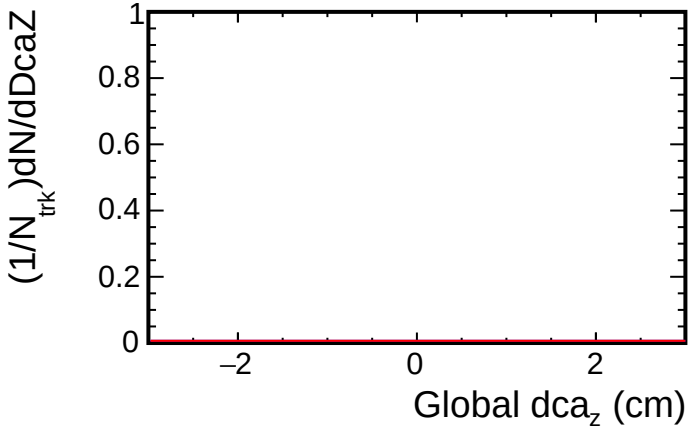
4, 4.0 < p_T < 4.5 (GeV/c)



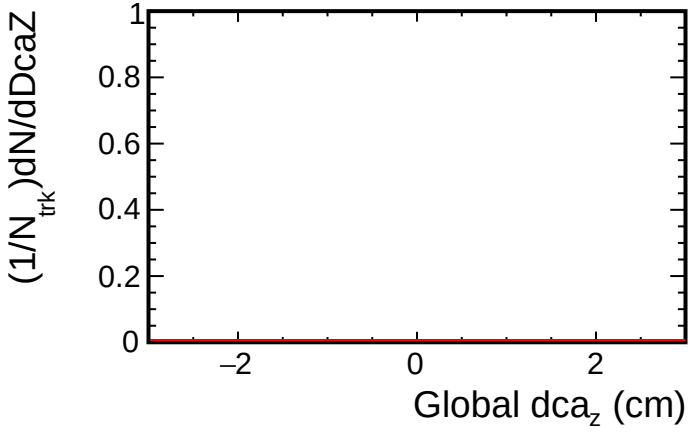
6, 4.0 < p_T < 4.5 (GeV/c)



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



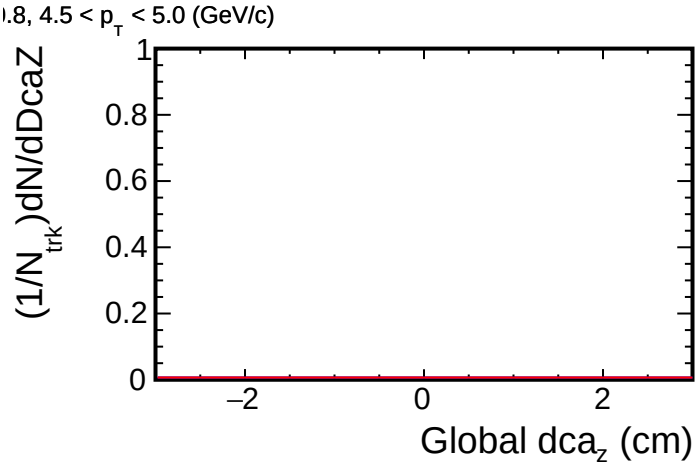
0, 4.0 < p_T < 4.5 (GeV/c)

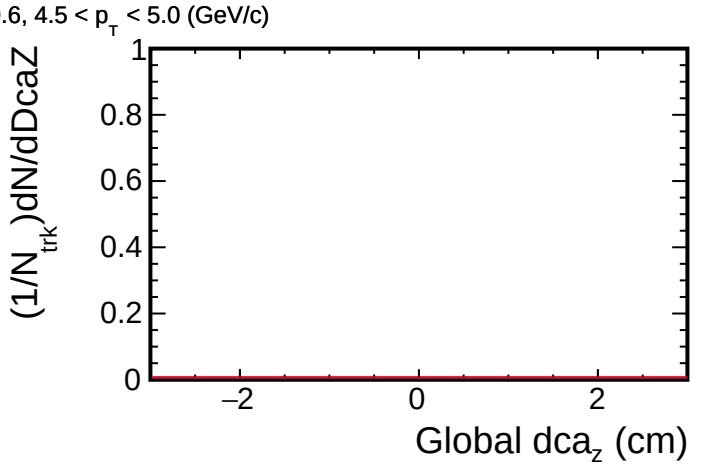


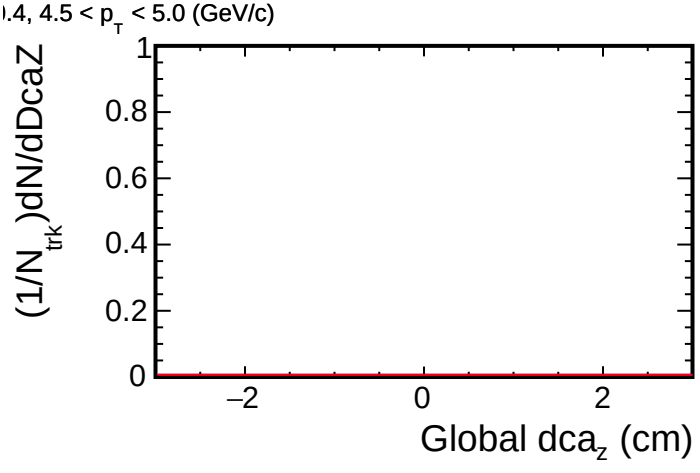
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

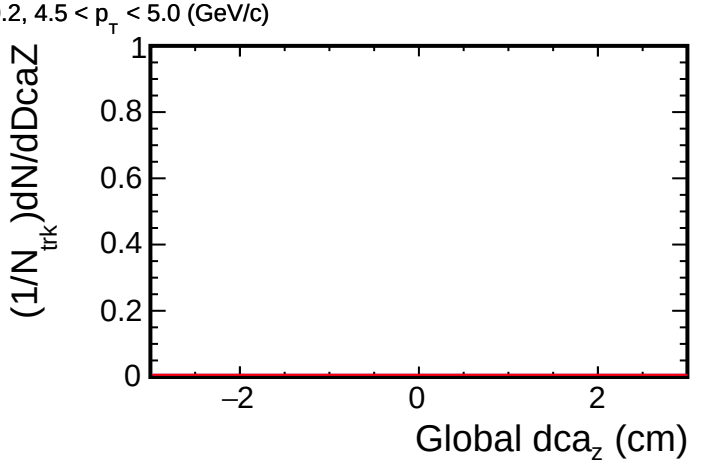
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

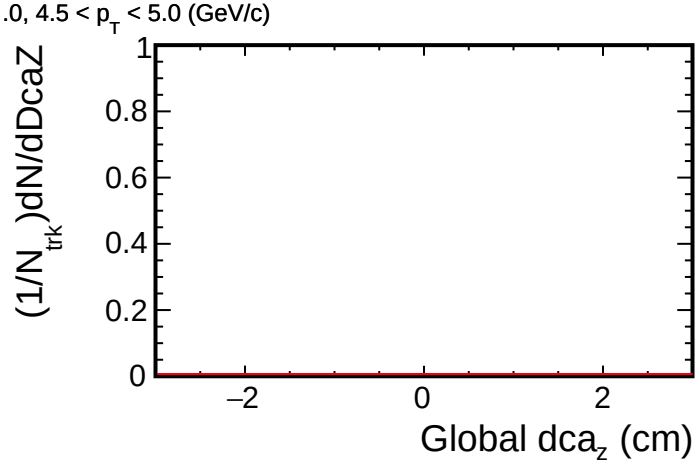
DcaZ distribution for (p_T, η) slices









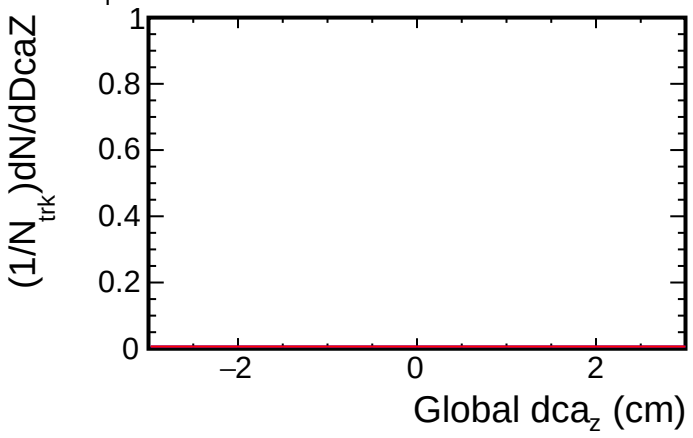


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

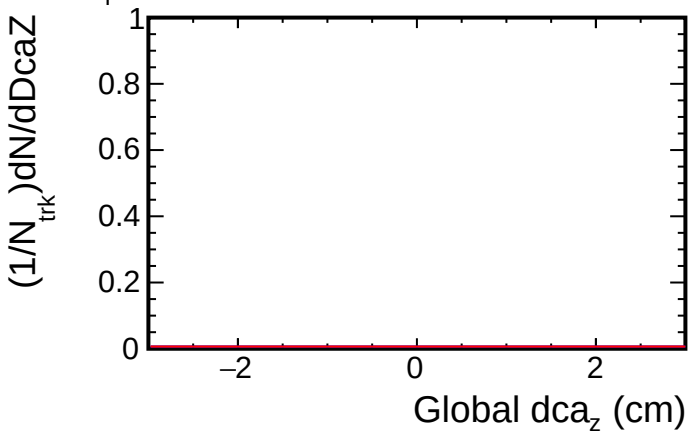
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

DcaZ distribution for (p_T, η) slices

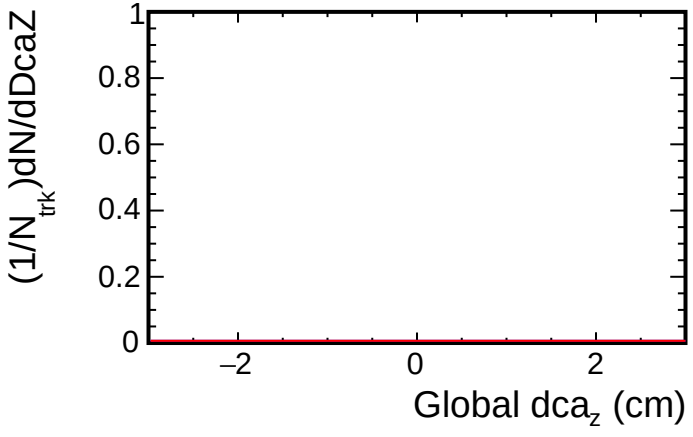
2, 4.5 < p_T < 5.0 (GeV/c)



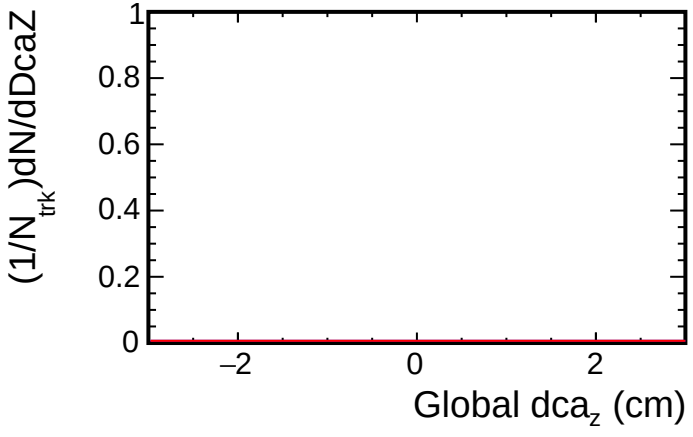
4, 4.5 < p_T < 5.0 (GeV/c)



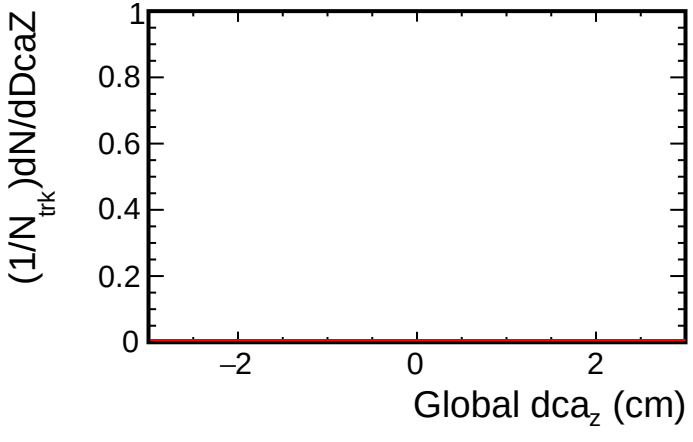
6, 4.5 < p_T < 5.0 (GeV/c)



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



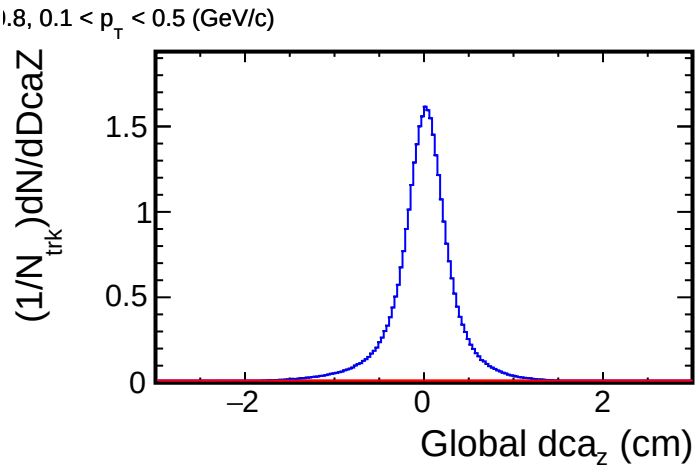
0, 4.5 < p_T < 5.0 (GeV/c)

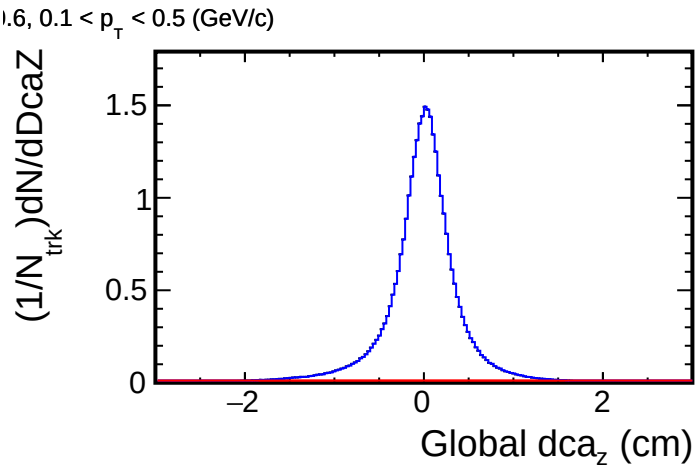


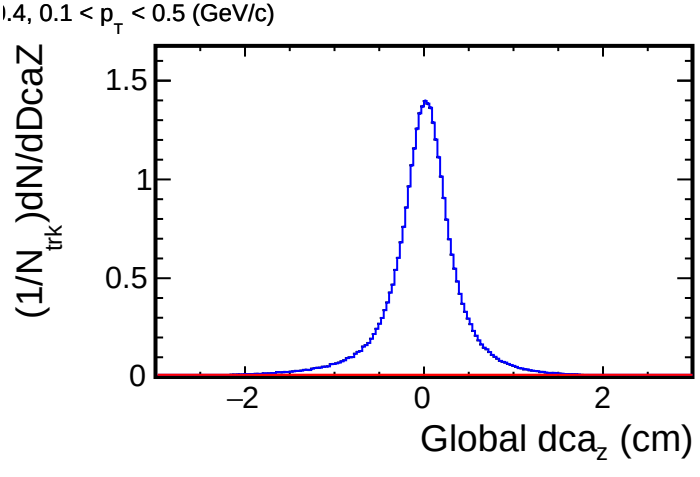
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

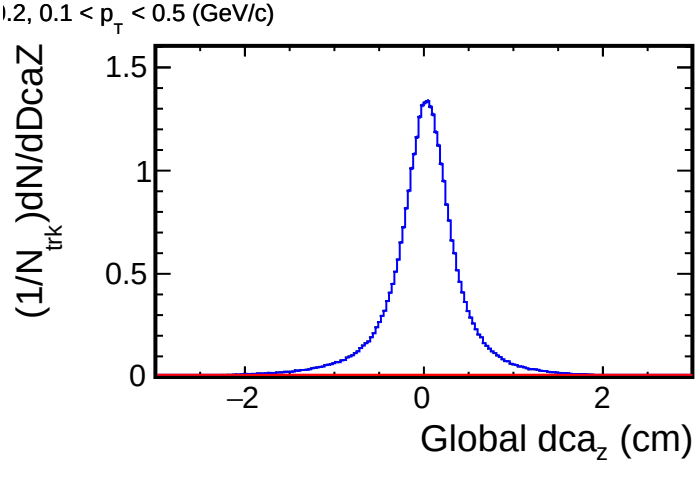
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

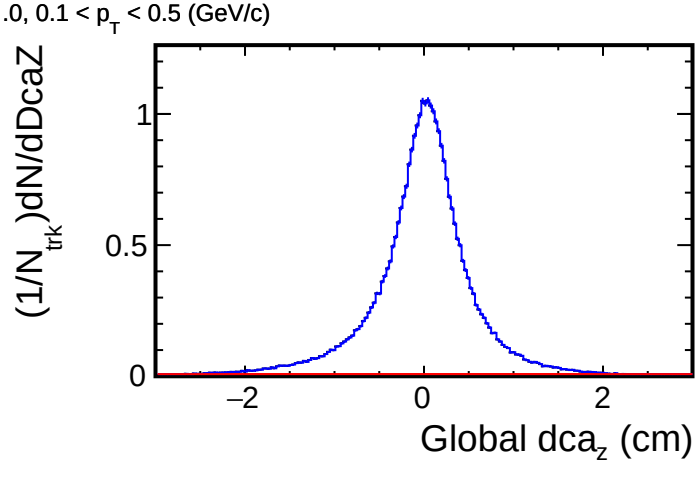
DcaZ distribution for (p_T, η) slices







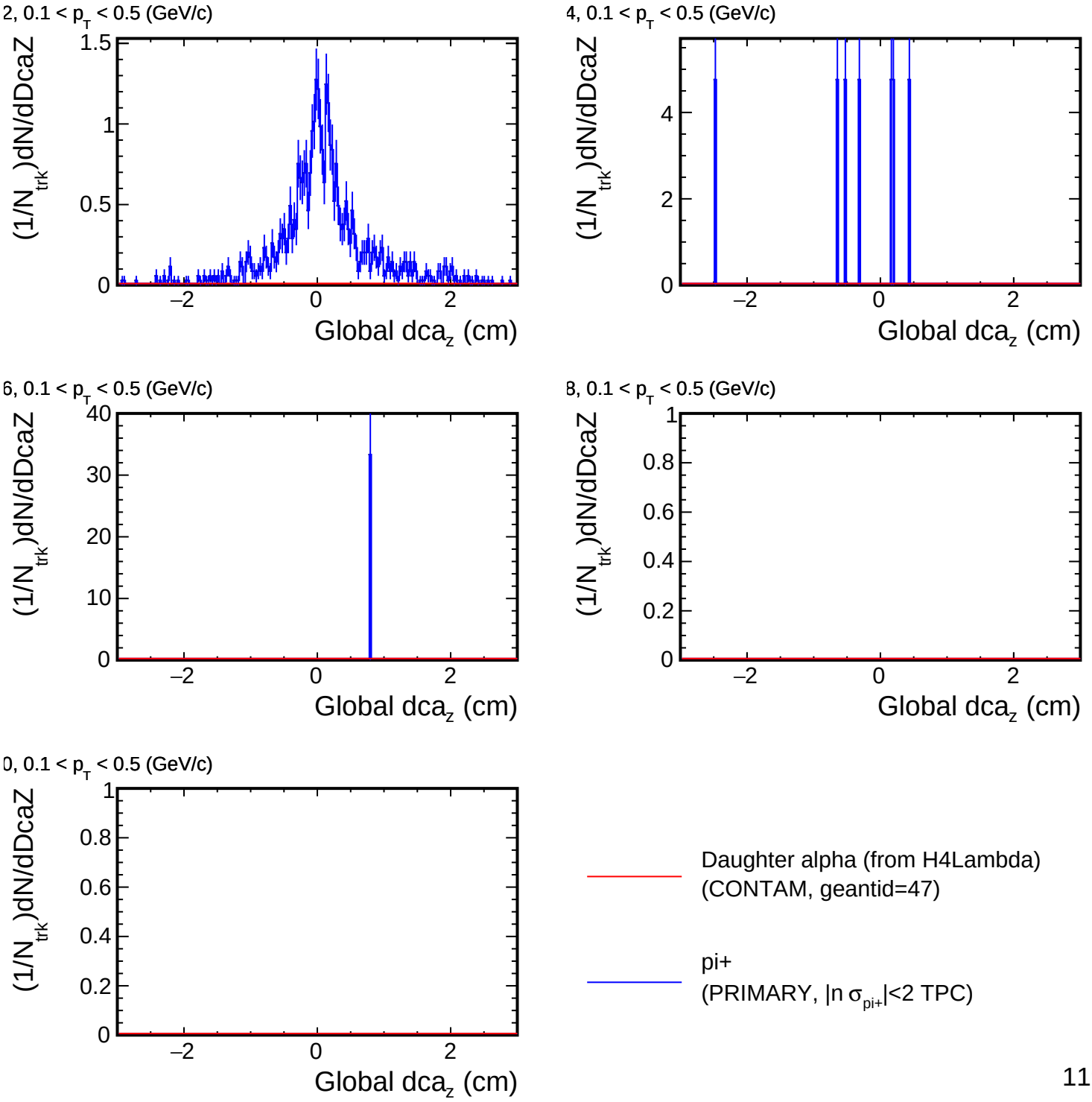




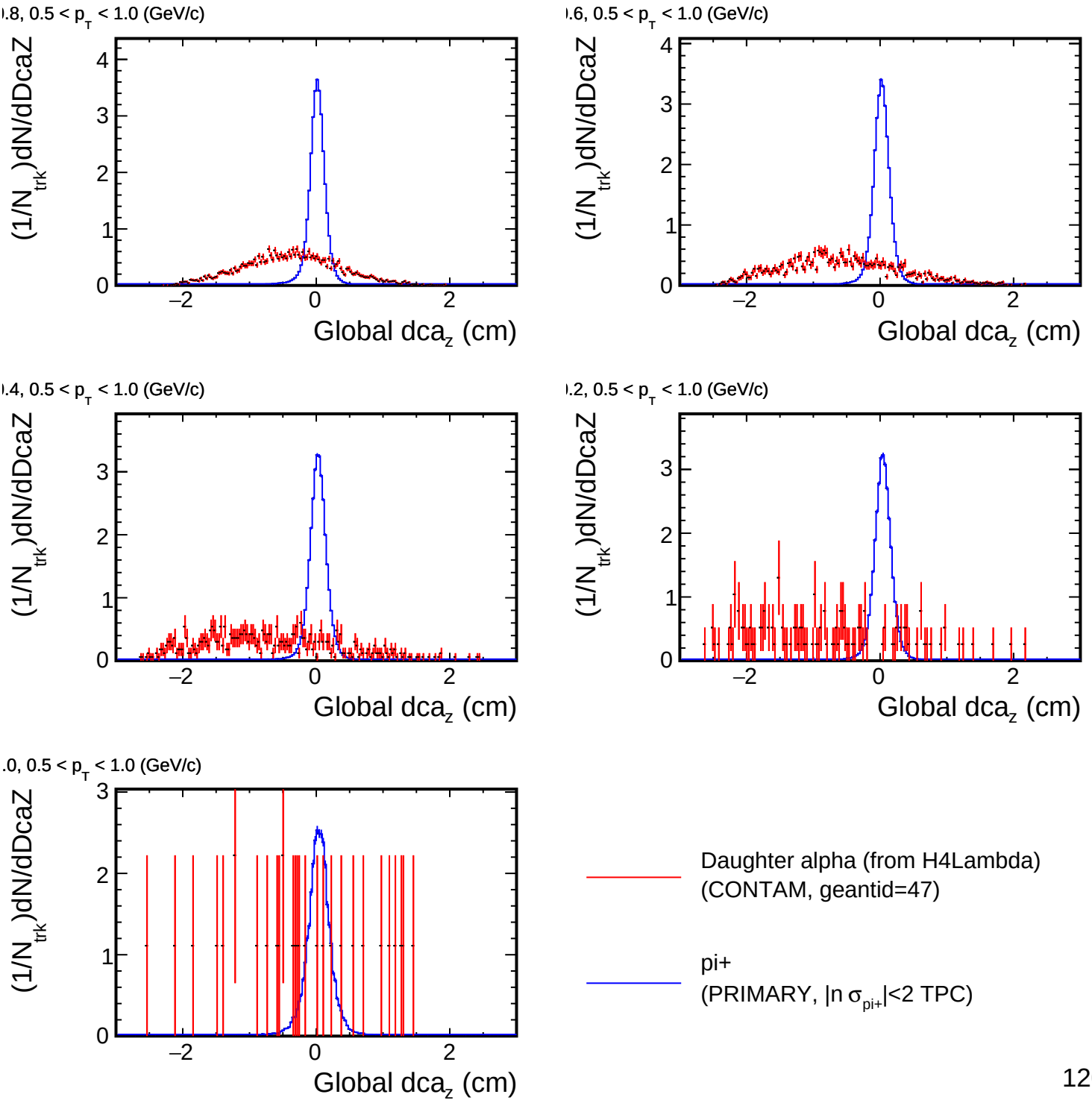
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

DcaZ distribution for (p_T, η) slices

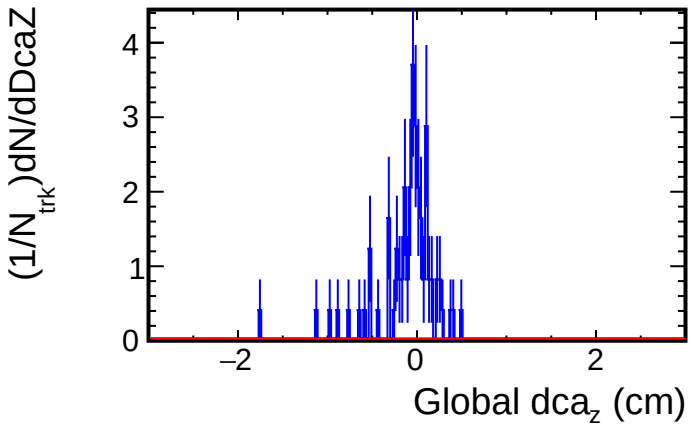


DcaZ distribution for (p_T, η) slices

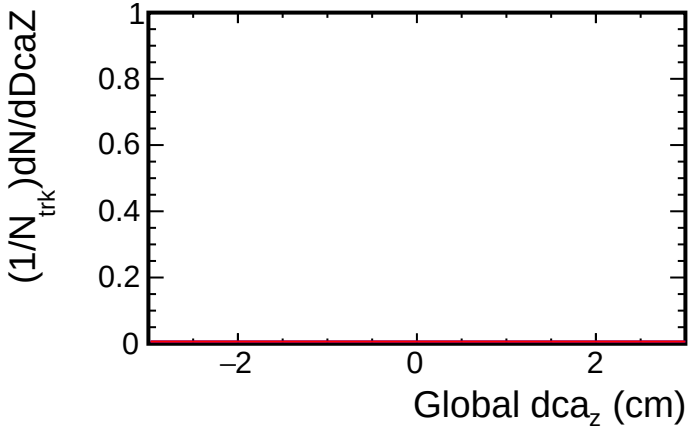


DcaZ distribution for (p_T, η) slices

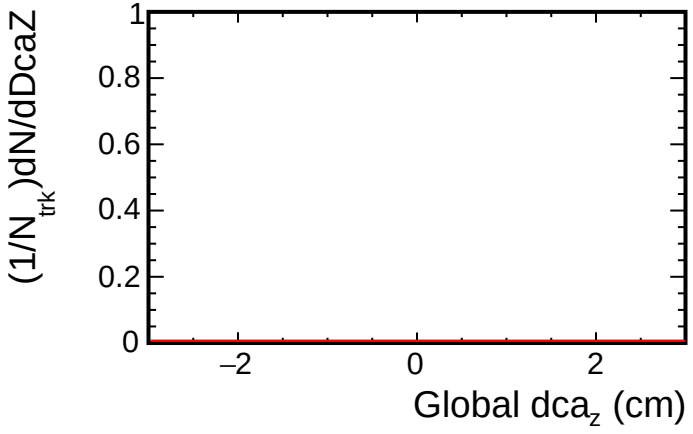
2, 0.5 < p_T < 1.0 (GeV/c)



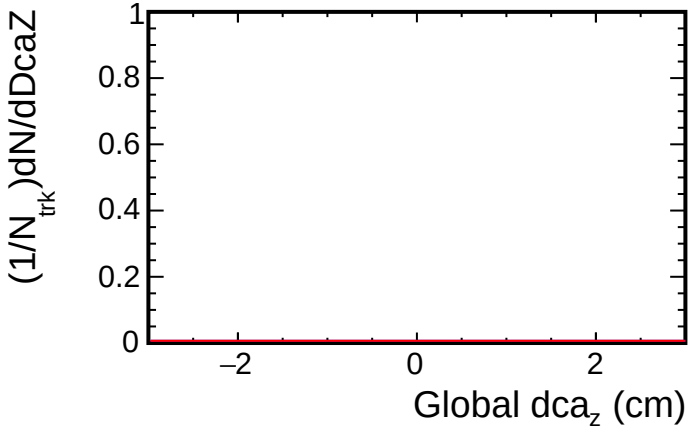
4, 0.5 < p_T < 1.0 (GeV/c)



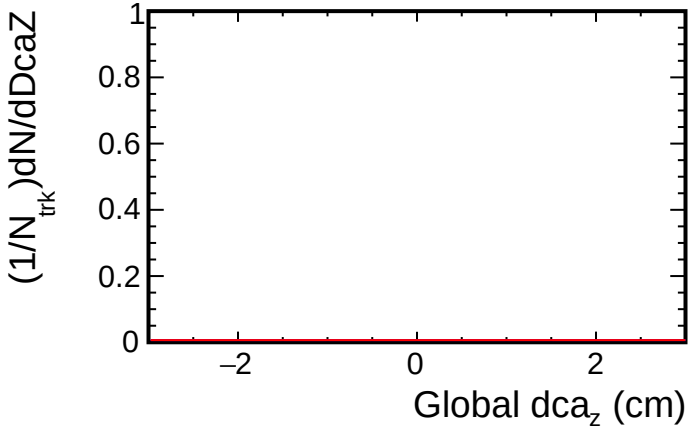
6, 0.5 < p_T < 1.0 (GeV/c)



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



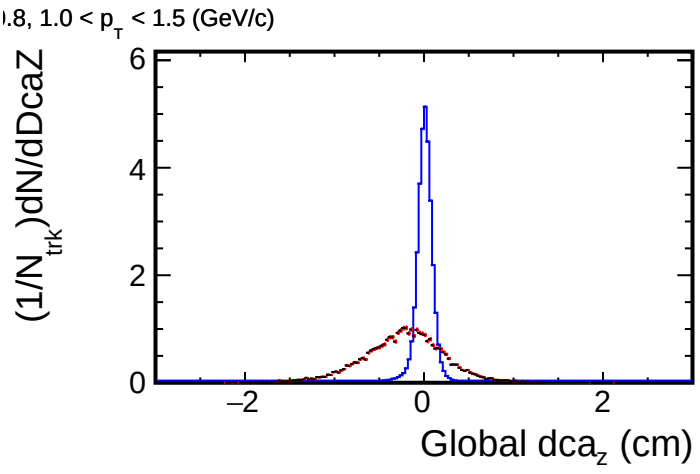
0, 0.5 < p_T < 1.0 (GeV/c)

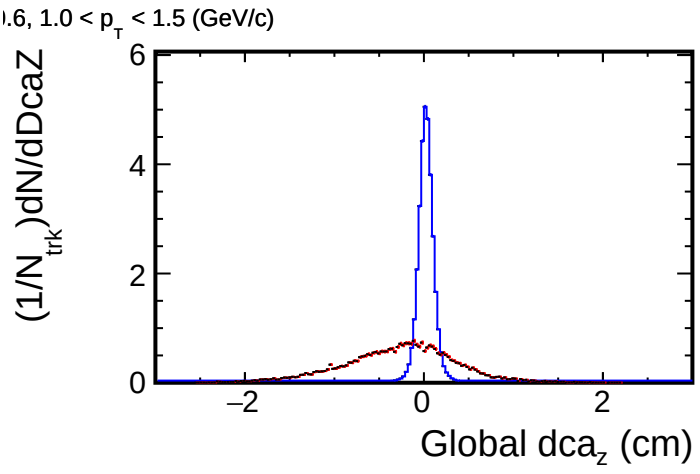


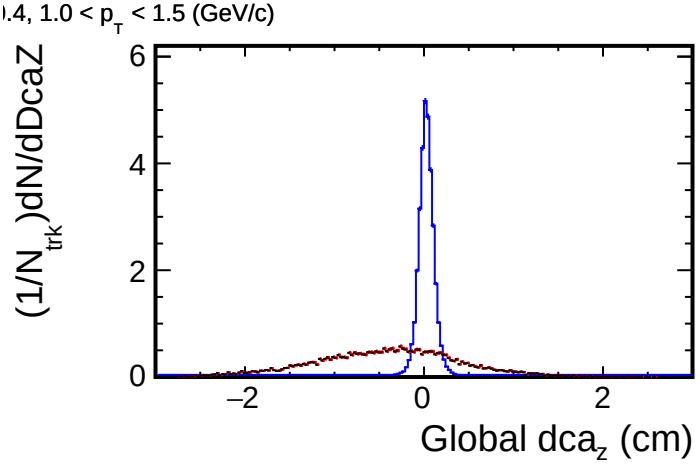
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

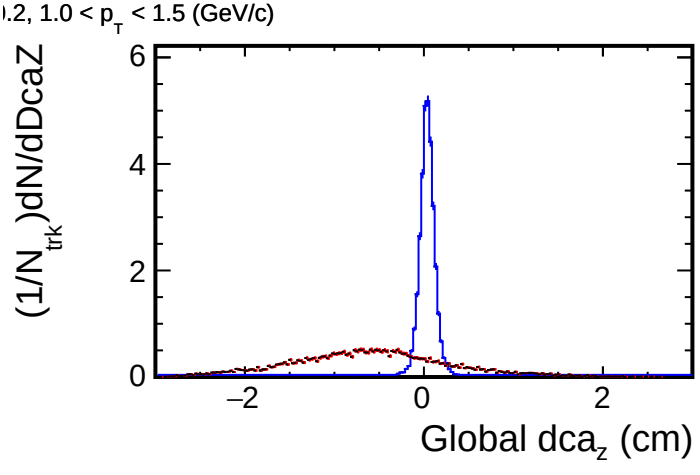
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

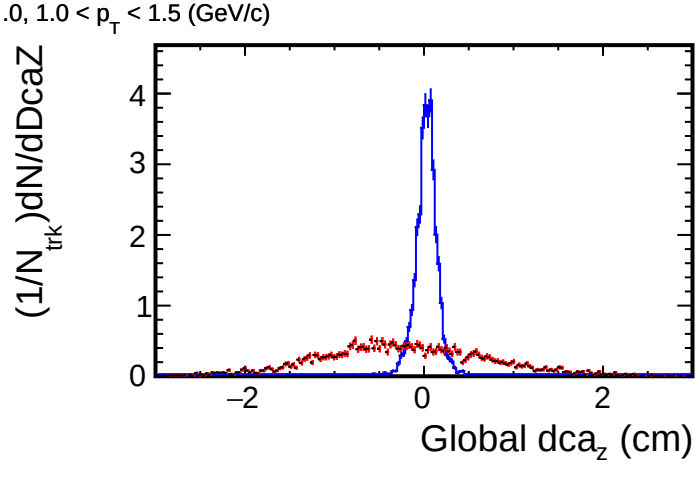
DcaZ distribution for (p_T, η) slices







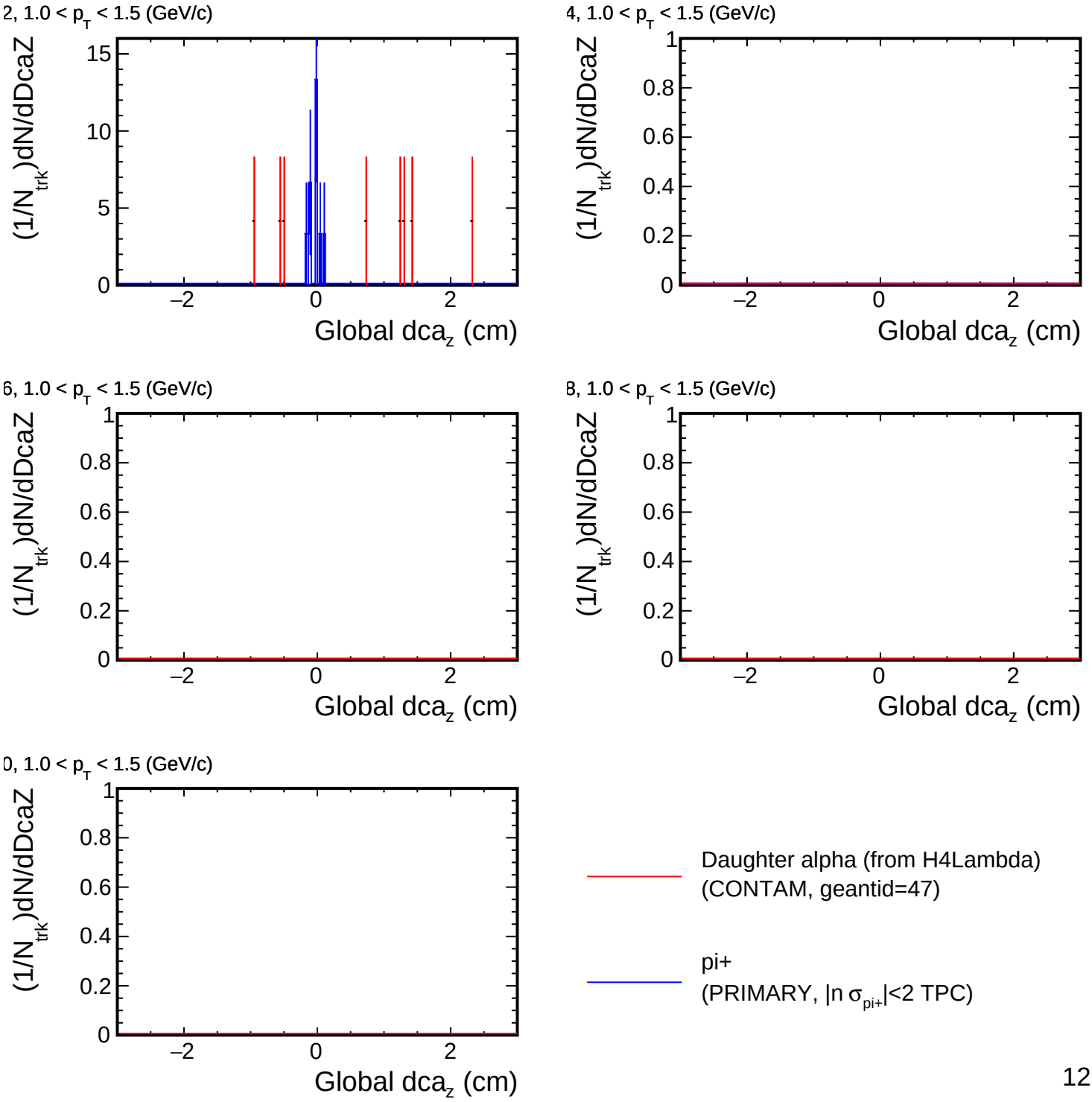




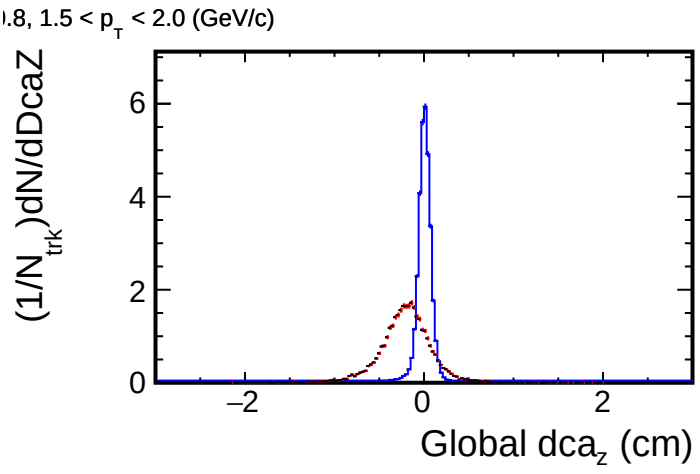
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

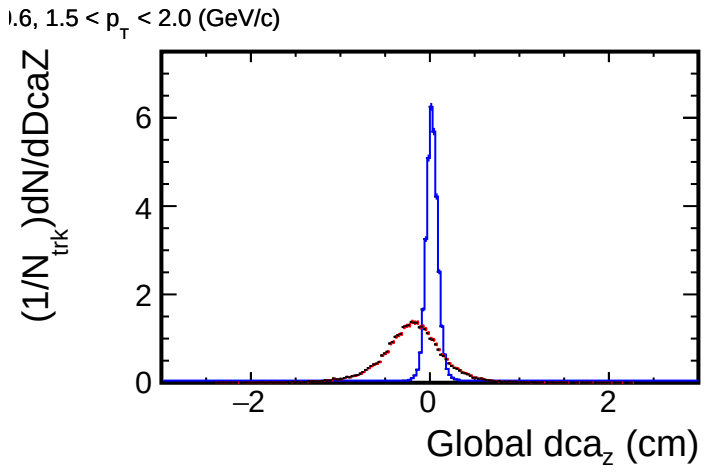
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

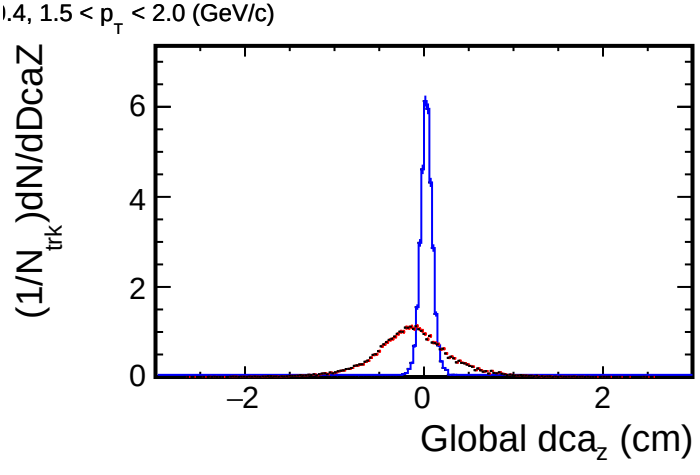
DcaZ distribution for (p_T, η) slices

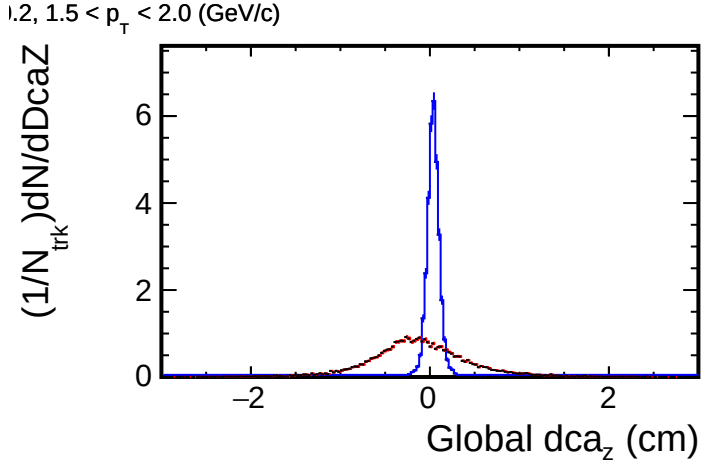


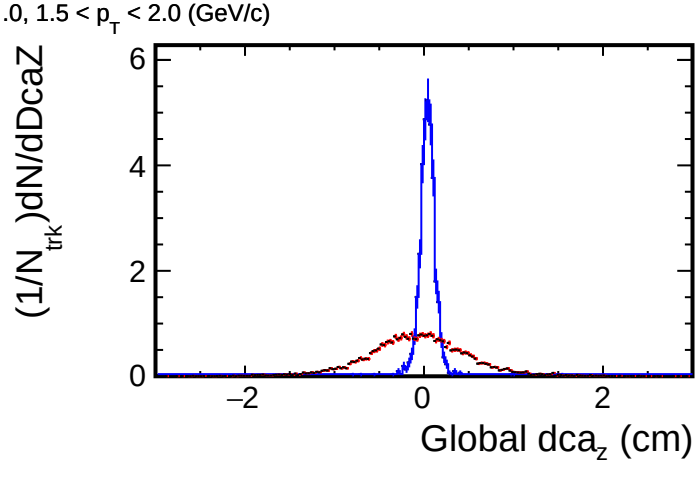
DcaZ distribution for (p_T, η) slices









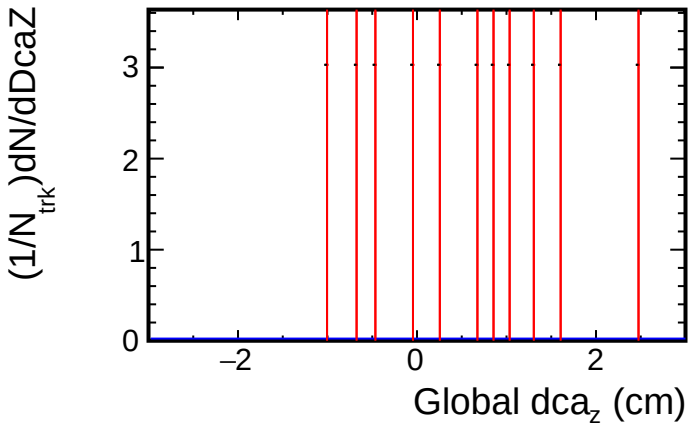


Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

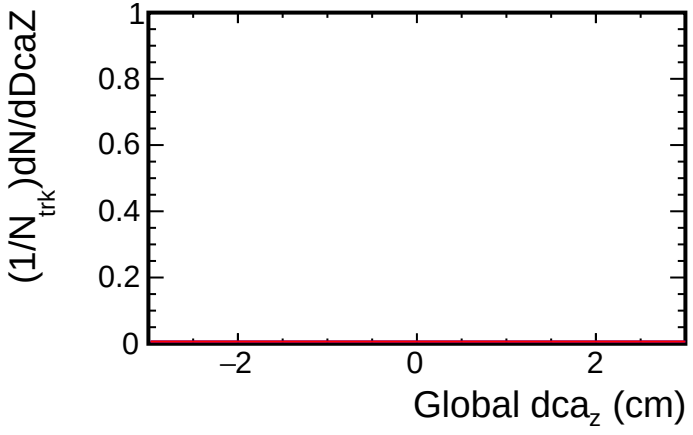
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

DcaZ distribution for (p_T, η) slices

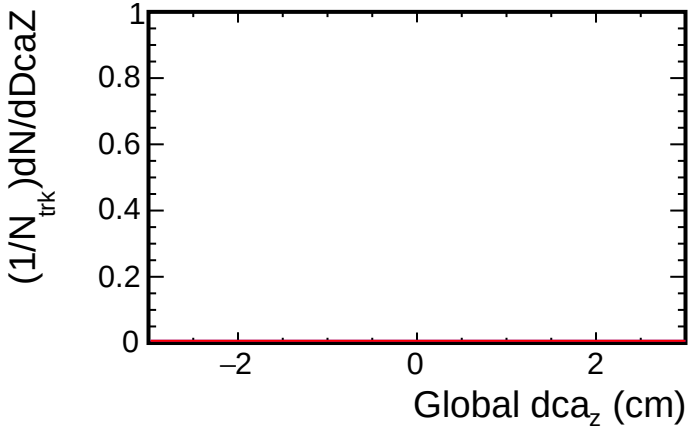
2, 1.5 < p_T < 2.0 (GeV/c)



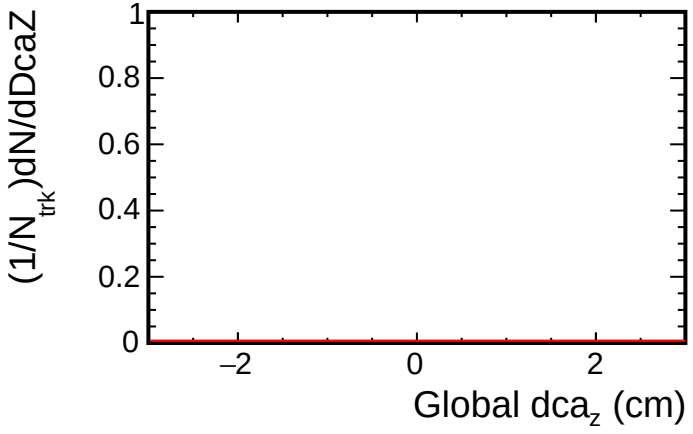
4, 1.5 < p_T < 2.0 (GeV/c)



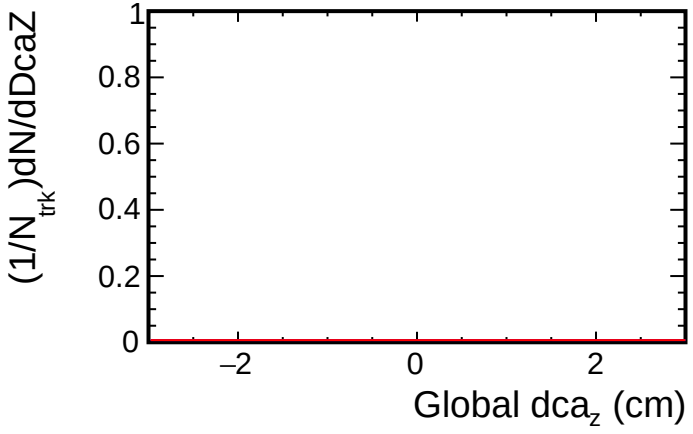
6, 1.5 < p_T < 2.0 (GeV/c)



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



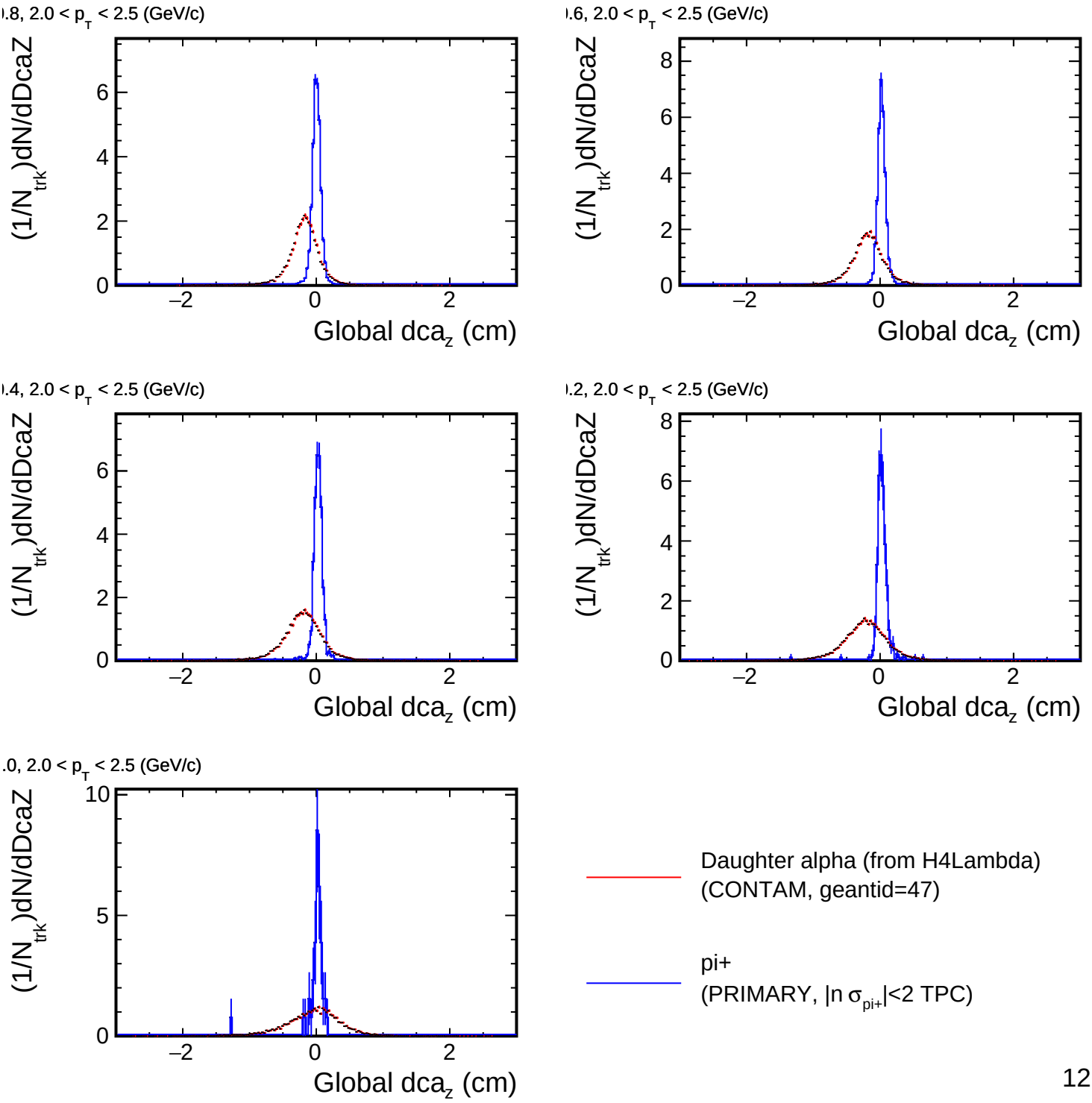
0, 1.5 < p_T < 2.0 (GeV/c)



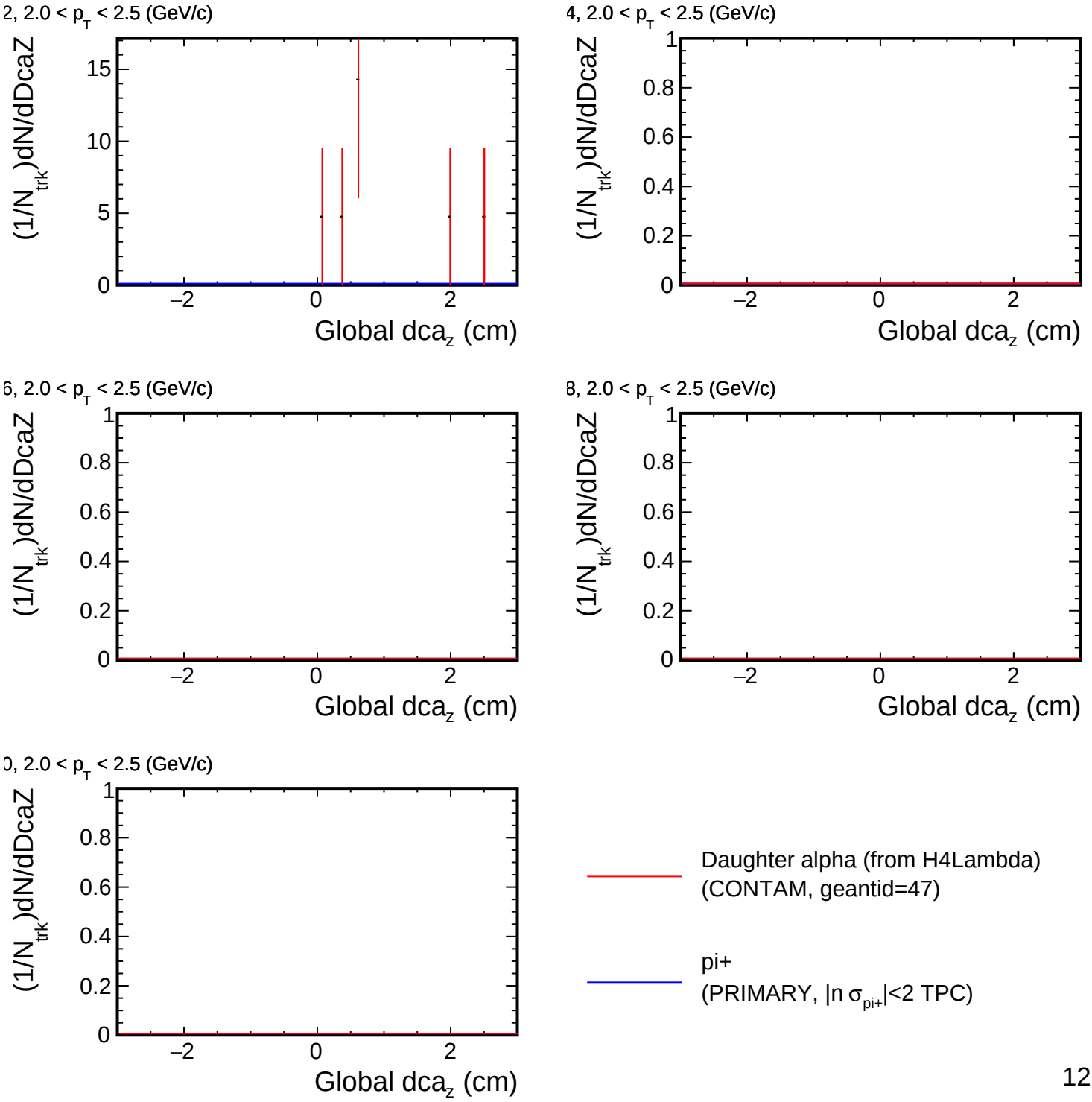
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

pi+
(PRIMARY, |n σ$_{pi+}$|<2 TPC)

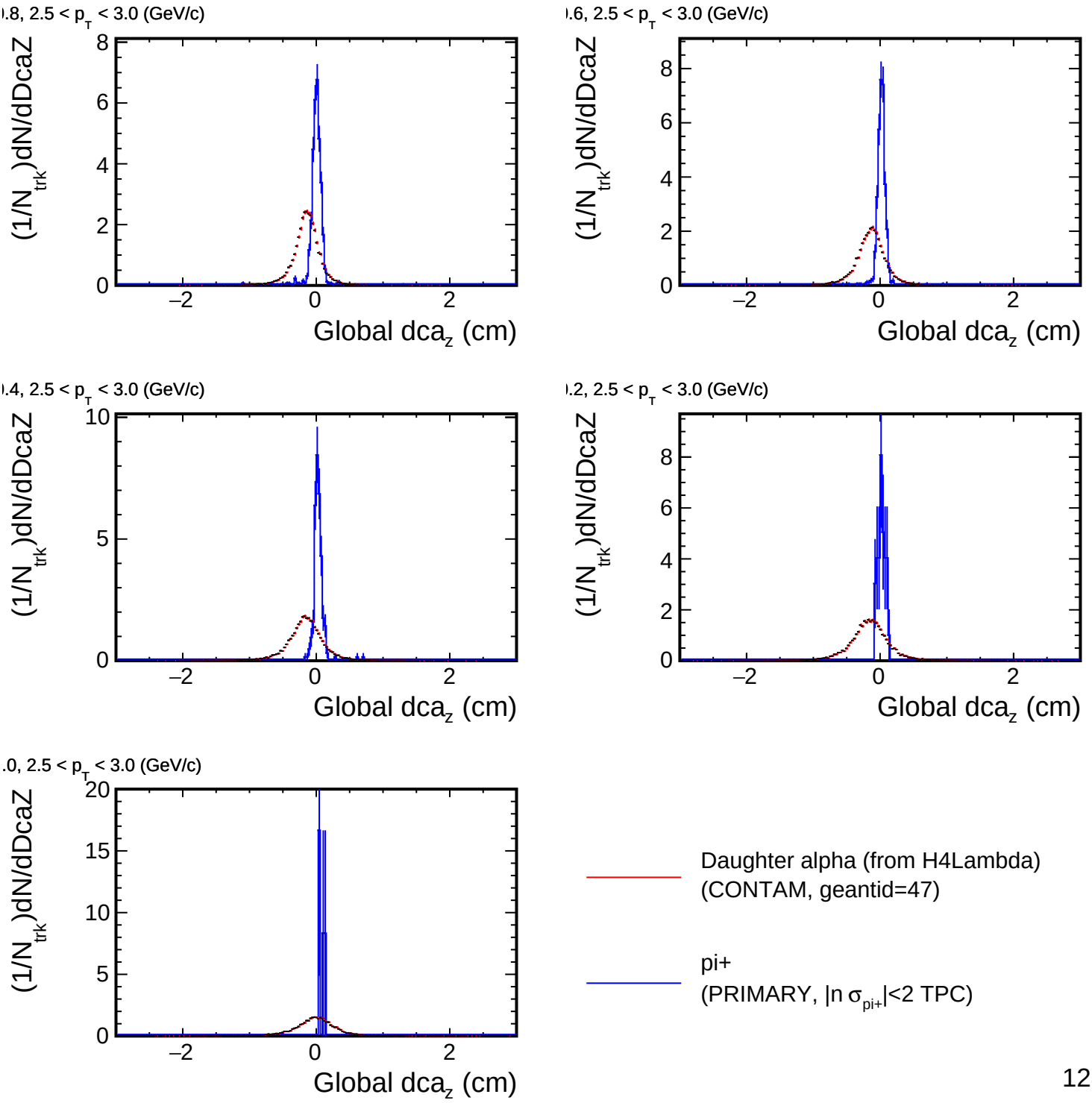
DcaZ distribution for (p_T, η) slices



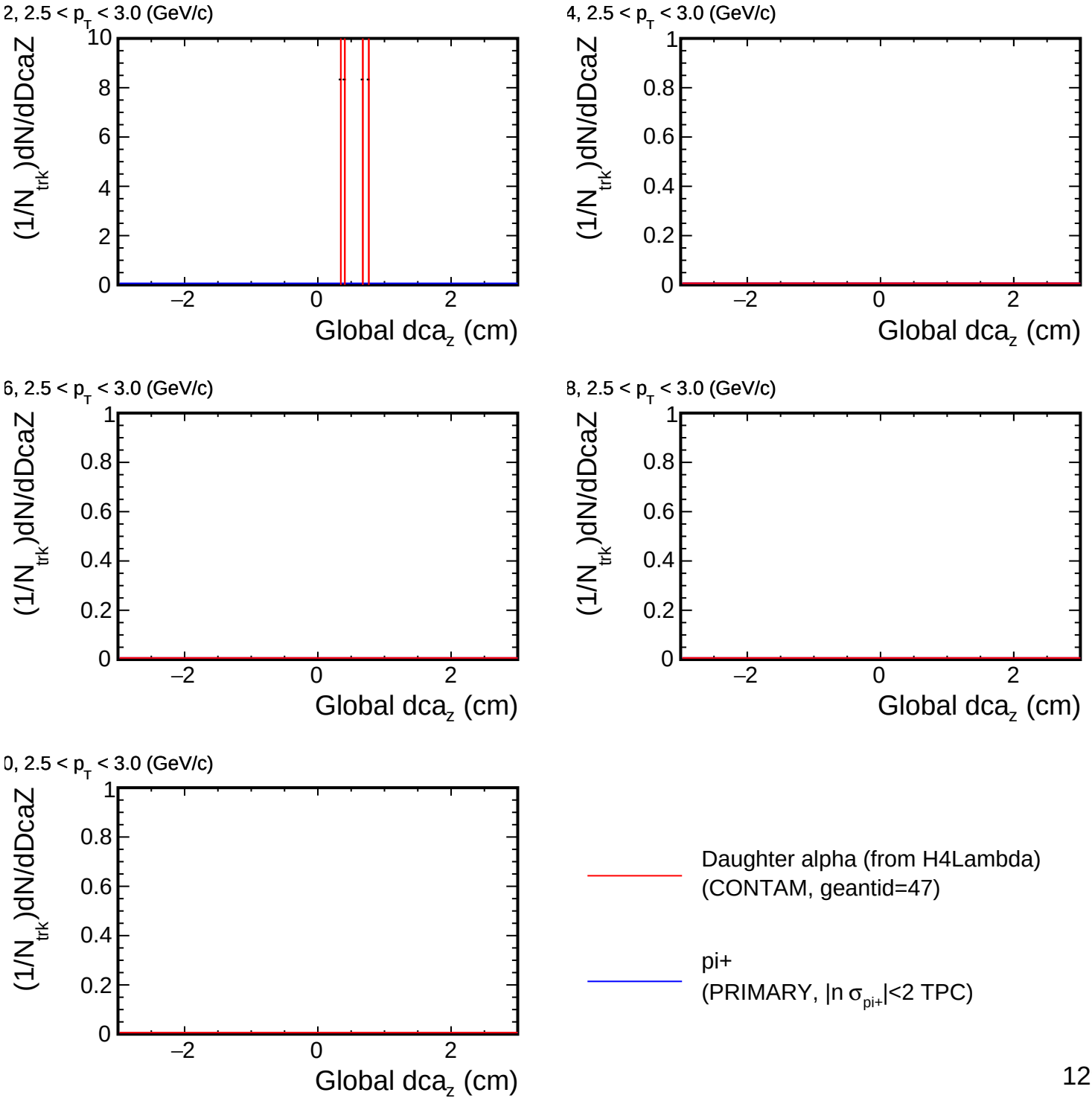
DcaZ distribution for (p_T, η) slices



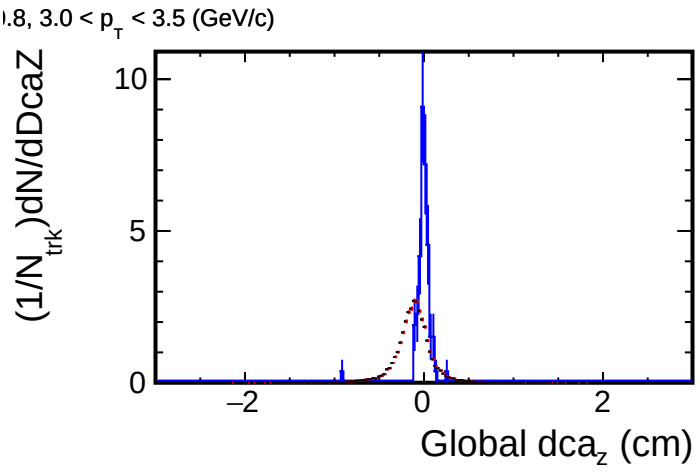
DcaZ distribution for (p_T, η) slices

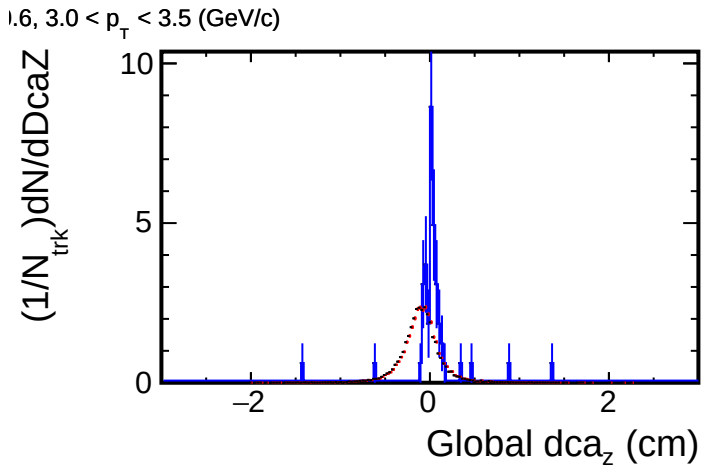


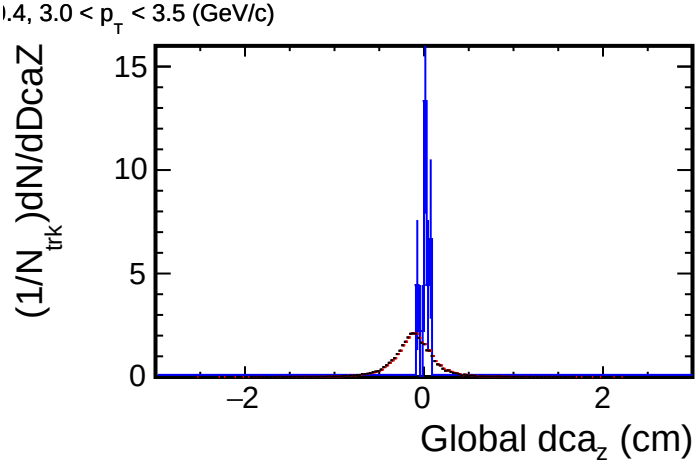
DcaZ distribution for (p_T, η) slices

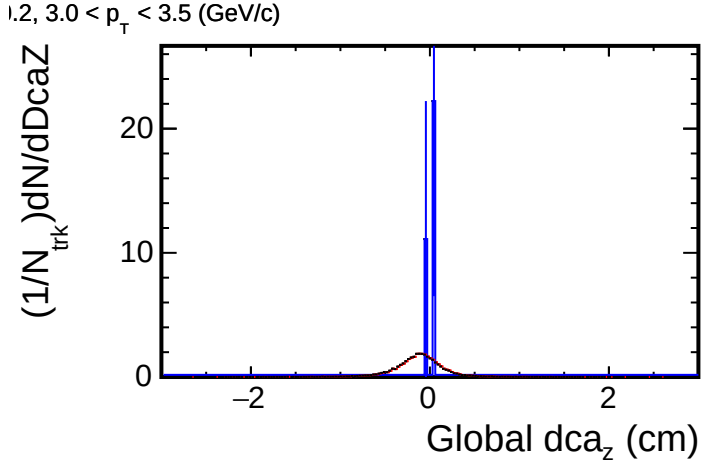


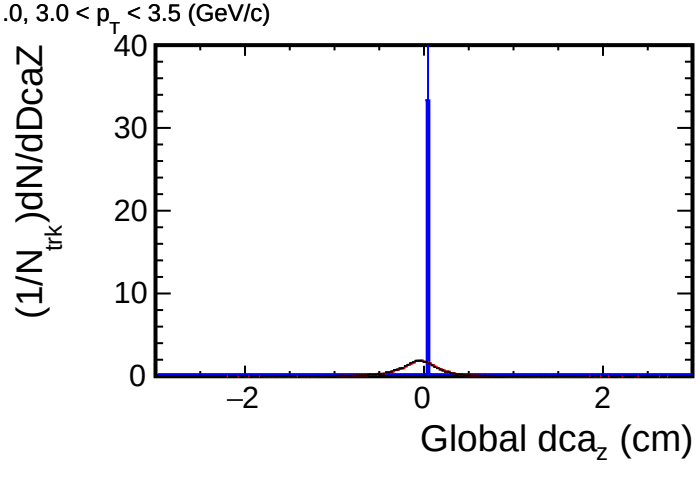
DcaZ distribution for (p_T, η) slices







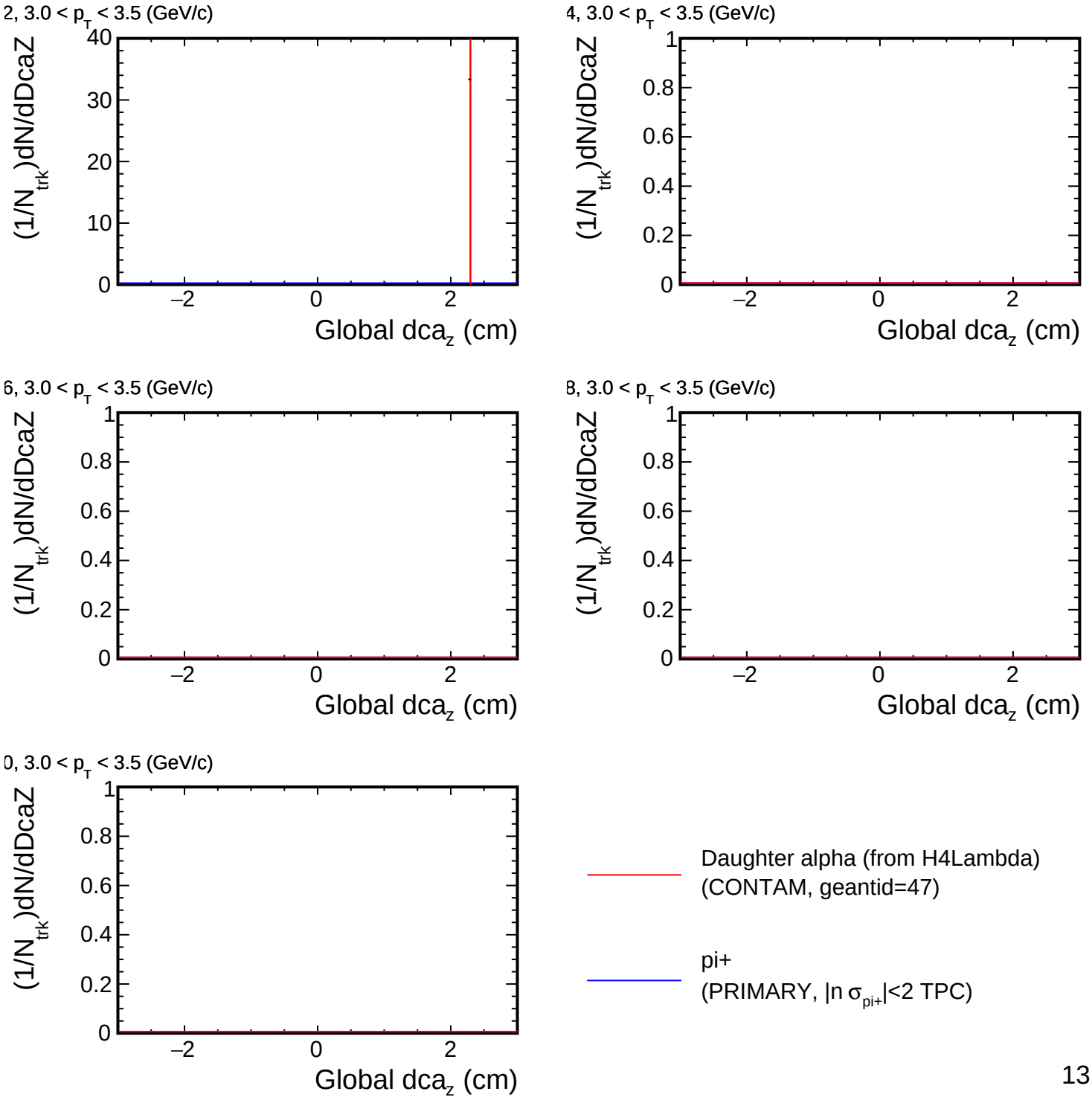




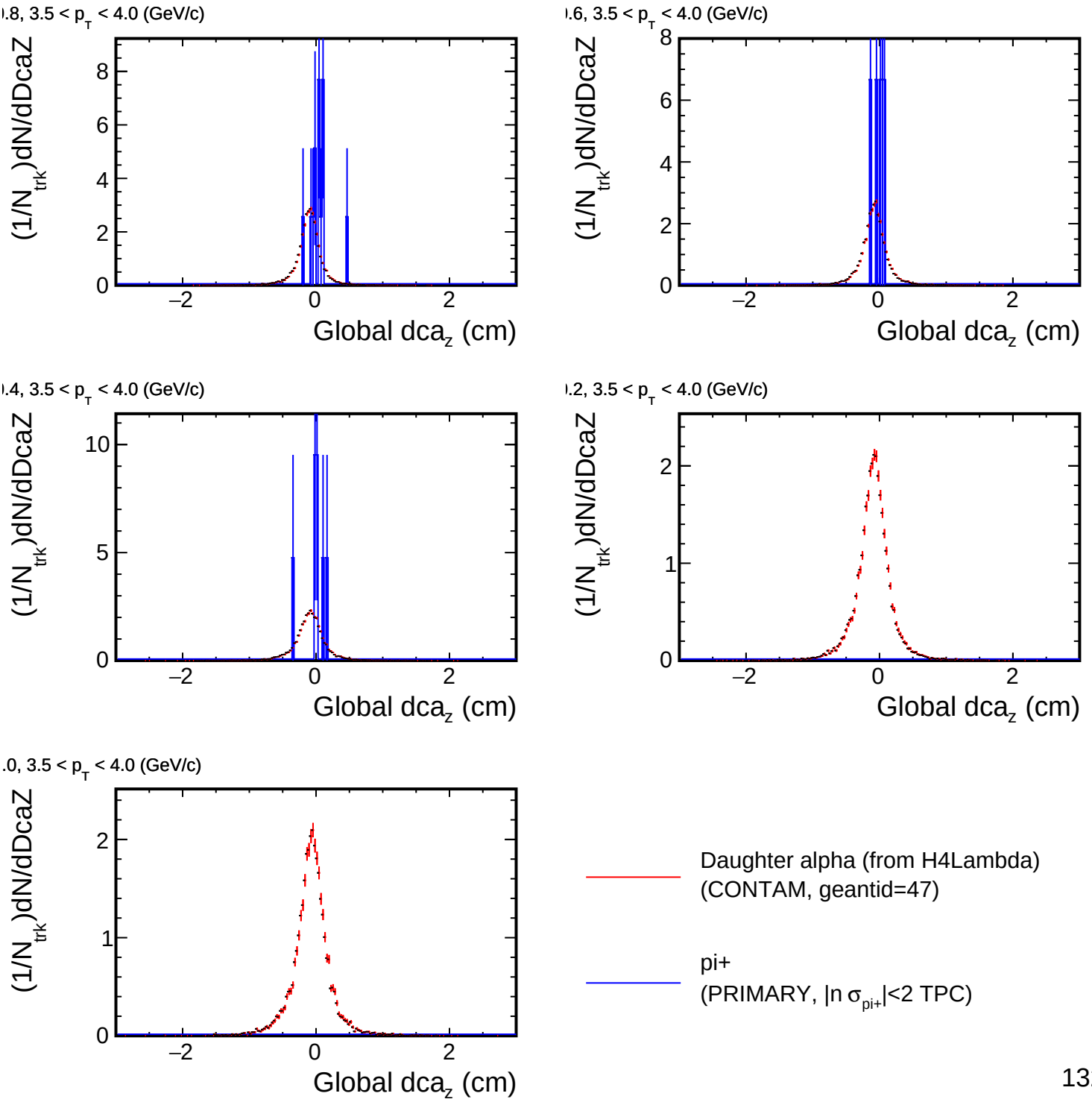
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

DcaZ distribution for (p_T, η) slices

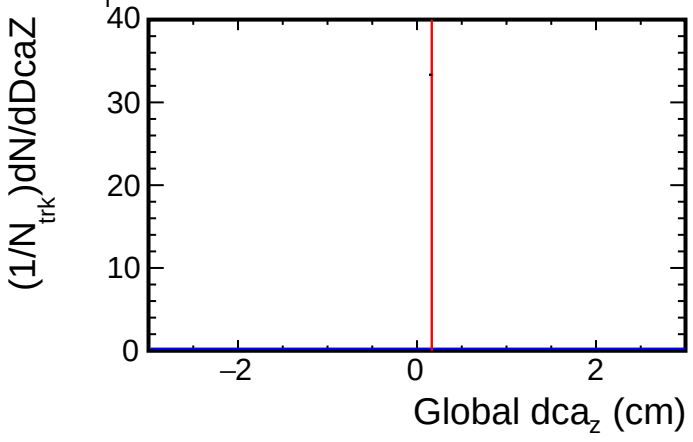


DcaZ distribution for (p_T, η) slices

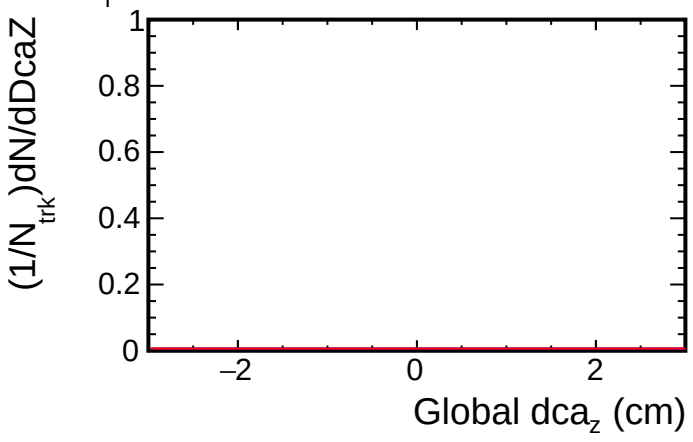


DcaZ distribution for (p_T, η) slices

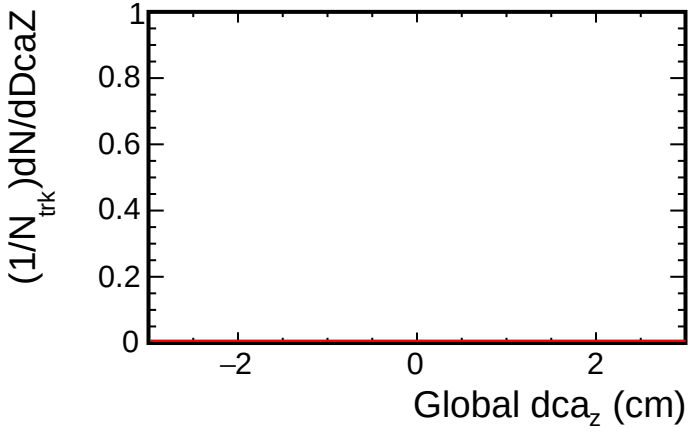
2, 3.5 < p_T < 4.0 (GeV/c)



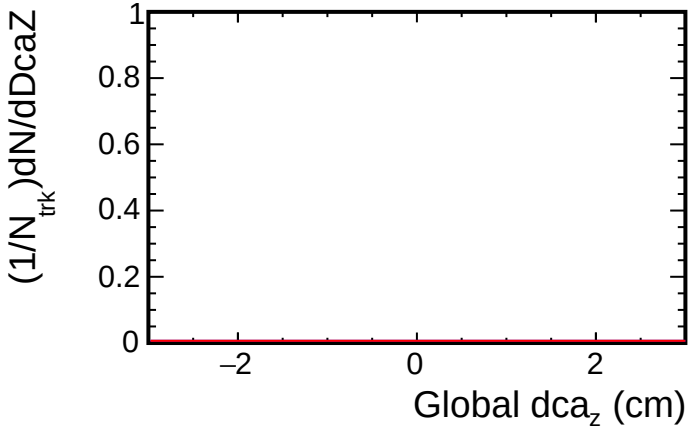
4, 3.5 < p_T < 4.0 (GeV/c)



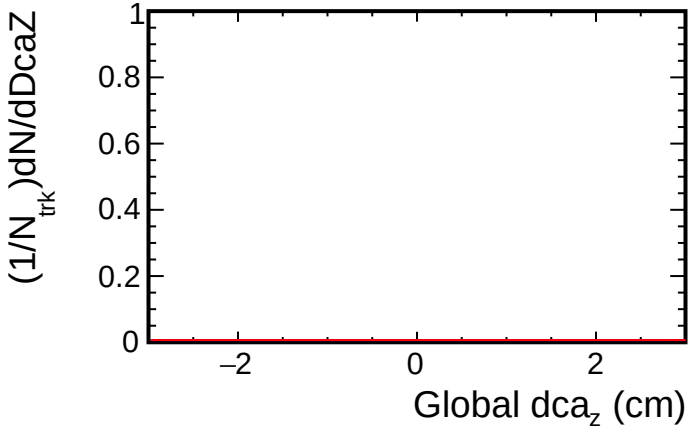
6, 3.5 < p_T < 4.0 (GeV/c)



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



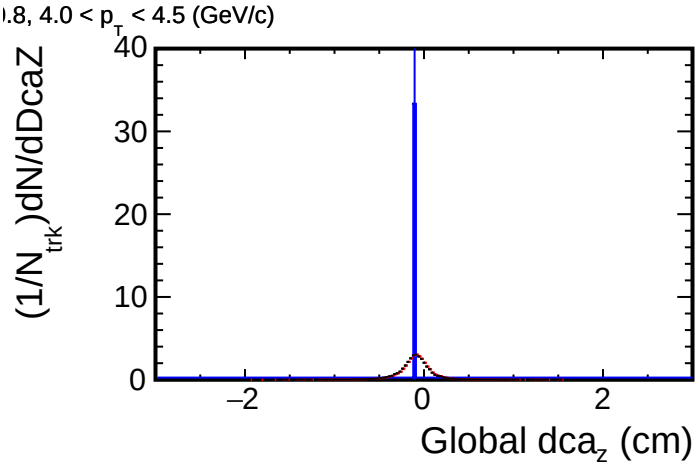
0, 3.5 < p_T < 4.0 (GeV/c)

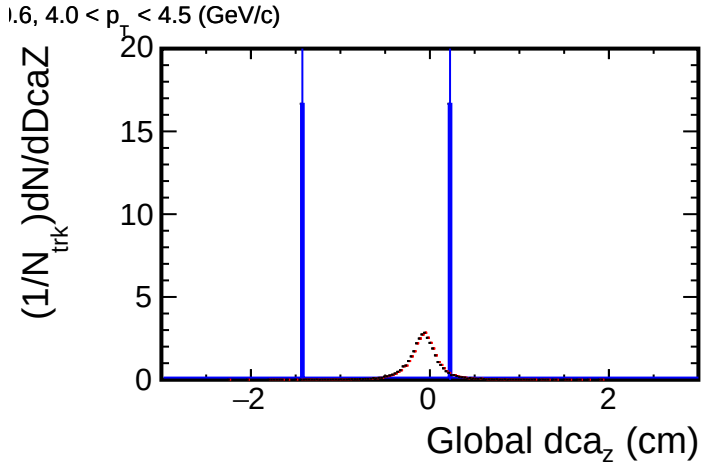


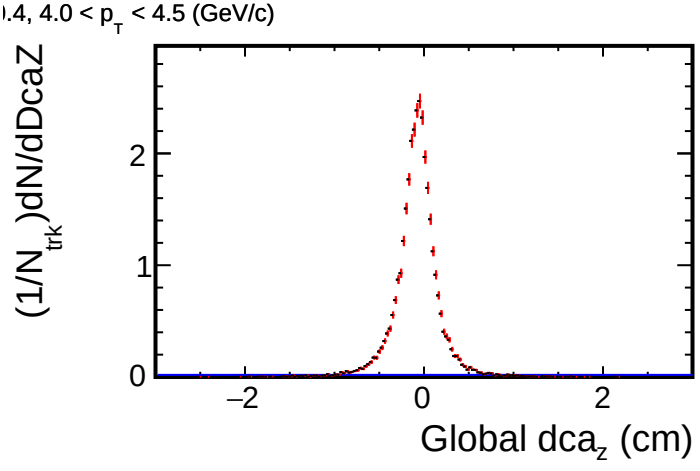
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

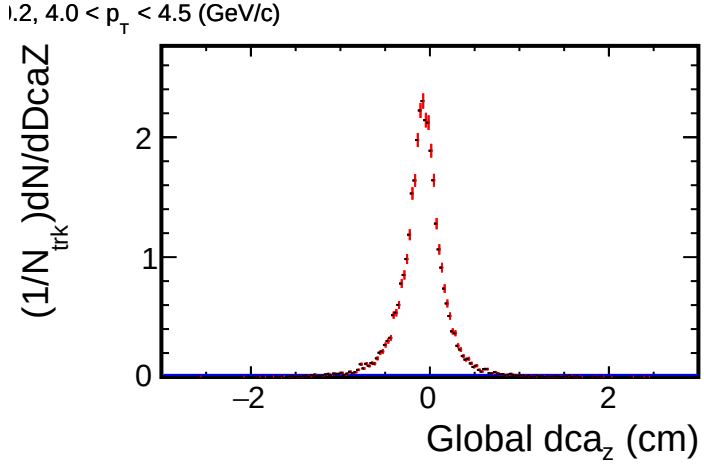
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

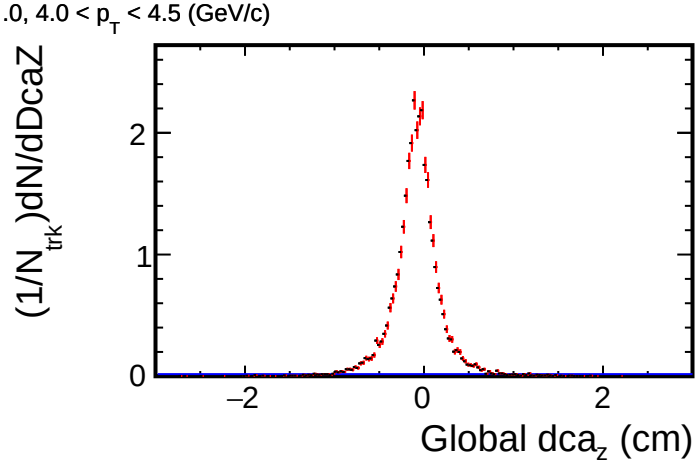
DcaZ distribution for (p_T, η) slices









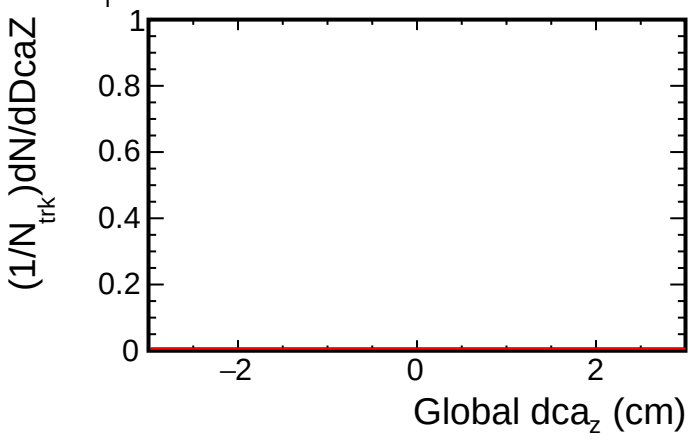


Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

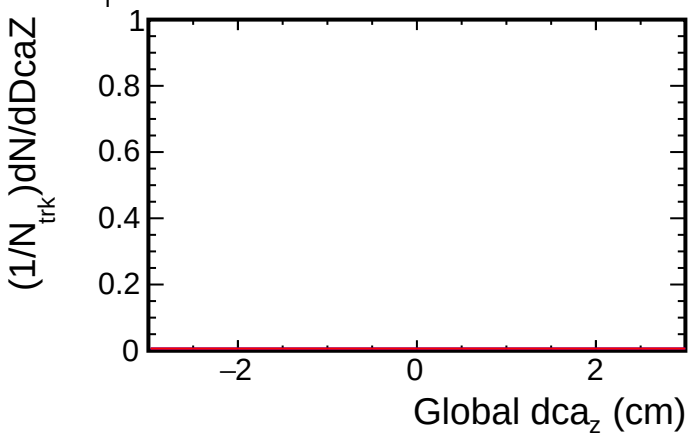
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

DcaZ distribution for (p_T, η) slices

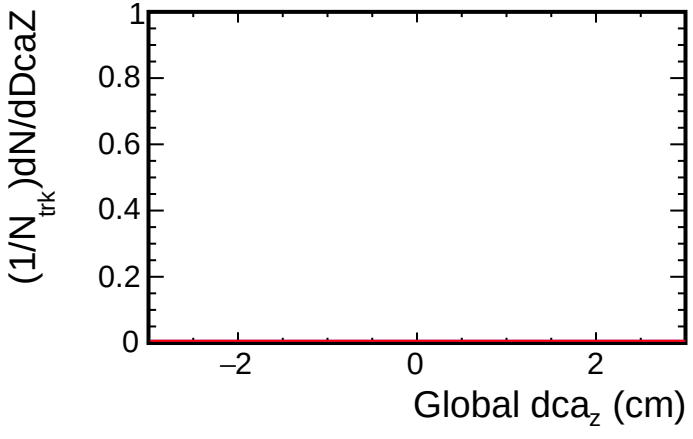
2, 4.0 < p_T < 4.5 (GeV/c)



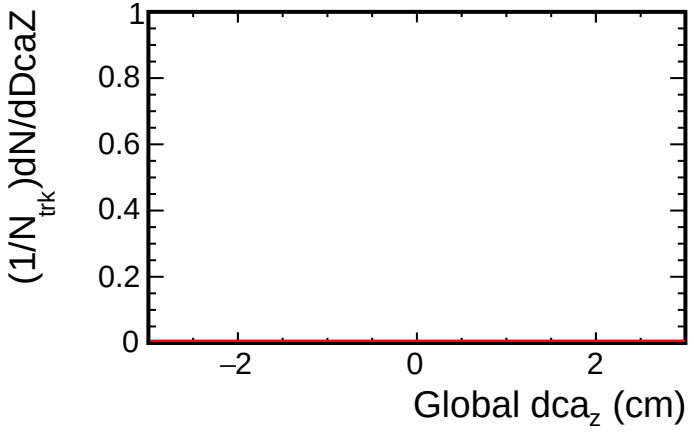
4, 4.0 < p_T < 4.5 (GeV/c)



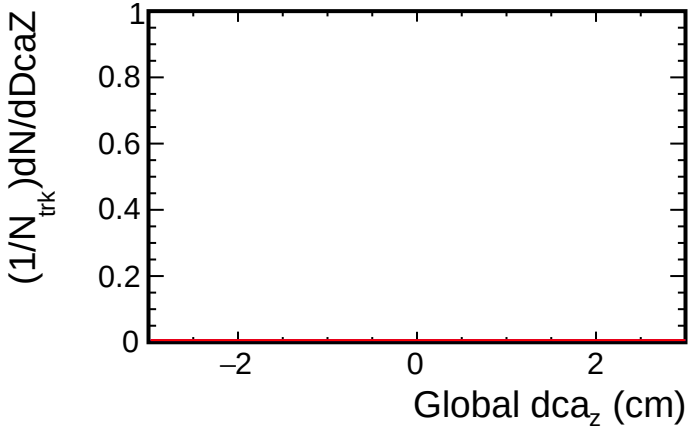
6, 4.0 < p_T < 4.5 (GeV/c)



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



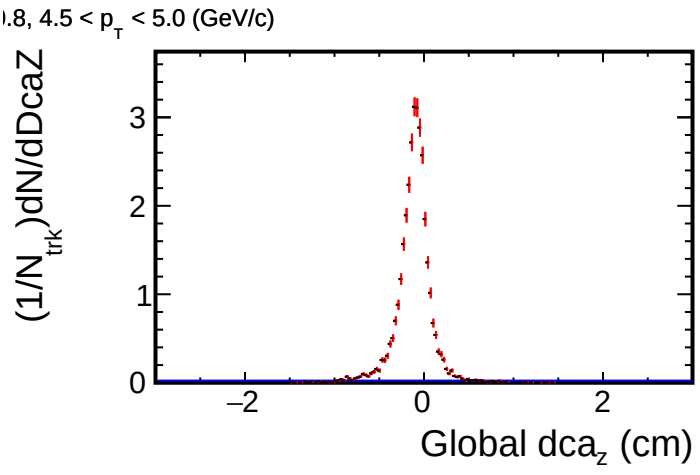
0, 4.0 < p_T < 4.5 (GeV/c)

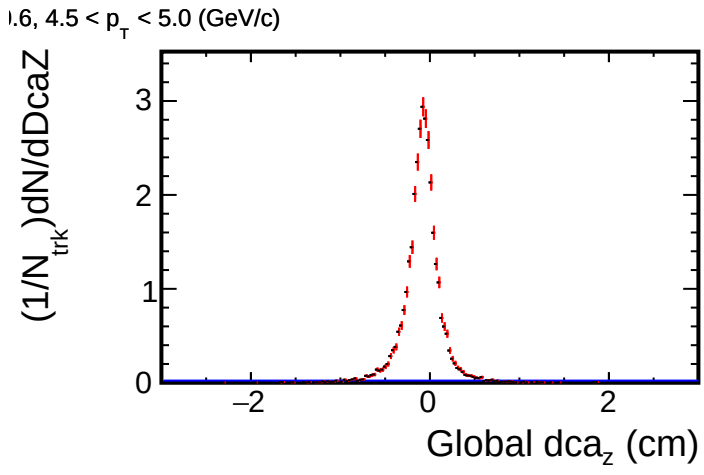


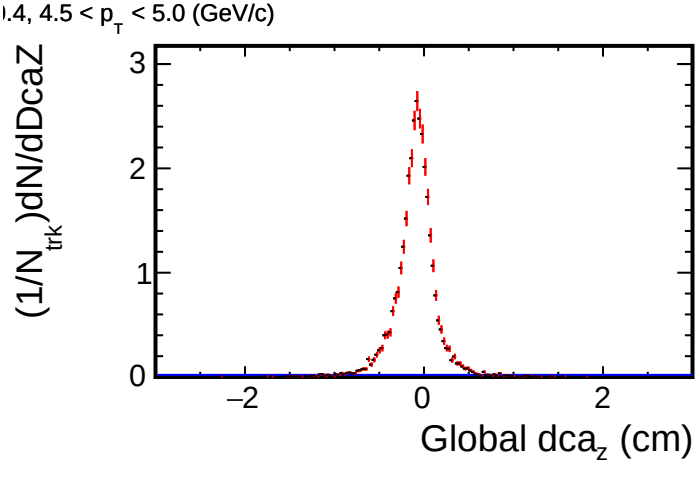
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

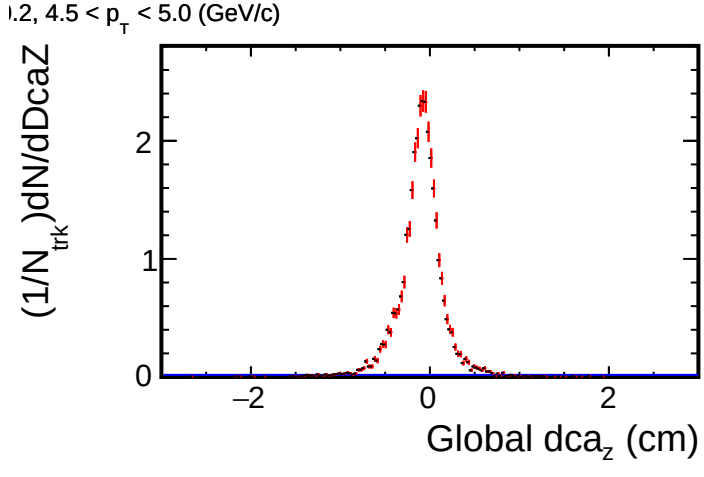
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

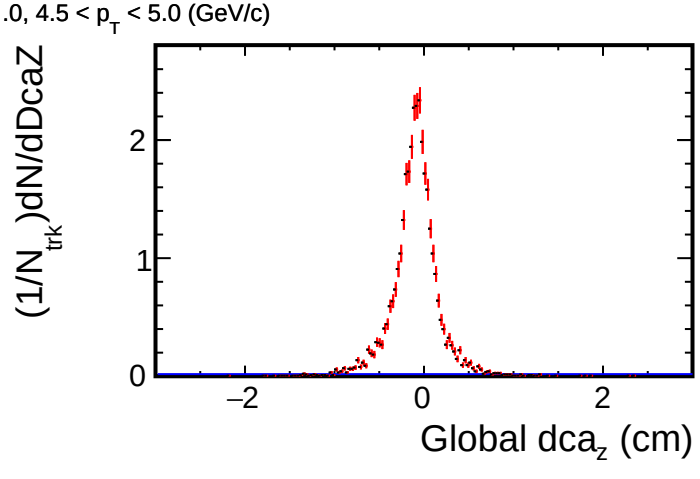
DcaZ distribution for (p_T, η) slices









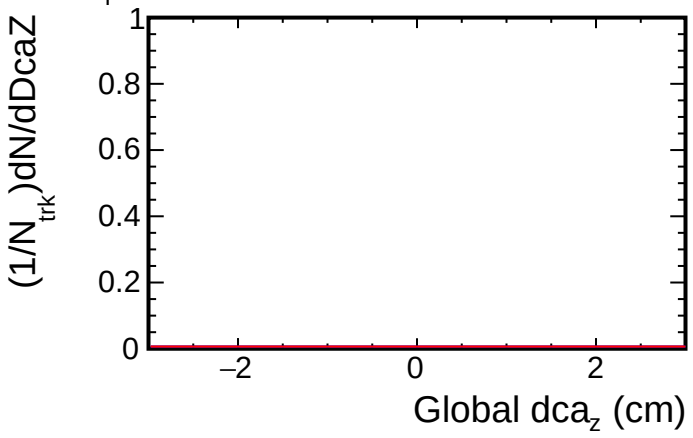


Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

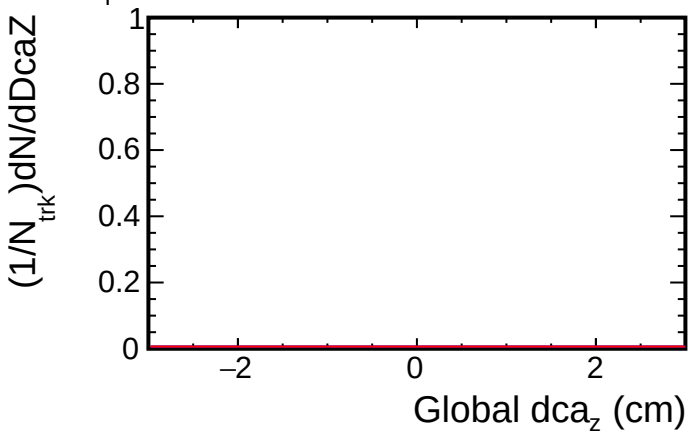
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

DcaZ distribution for (p_T, η) slices

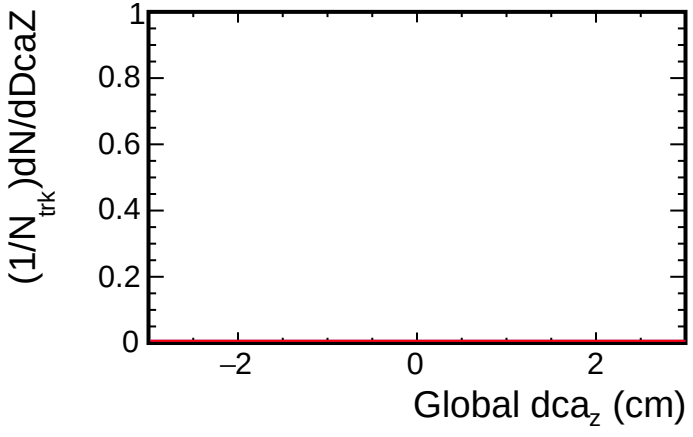
2, 4.5 < p_T < 5.0 (GeV/c)



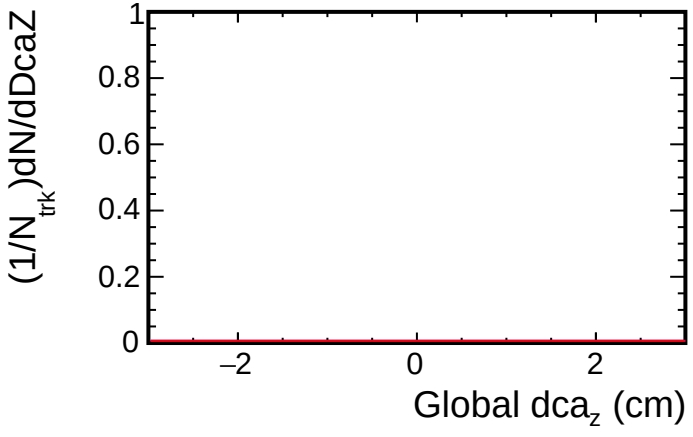
4, 4.5 < p_T < 5.0 (GeV/c)



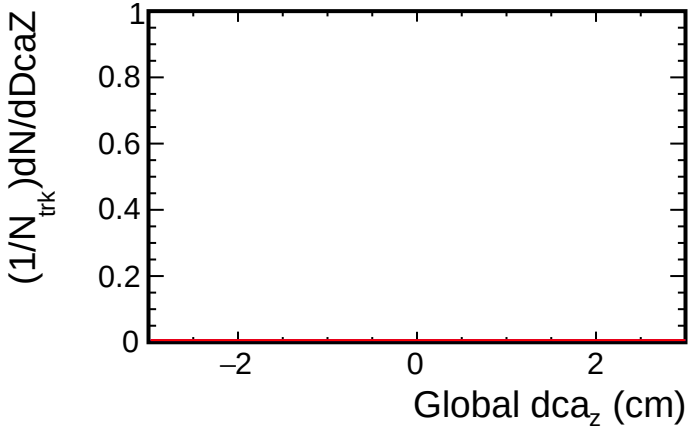
6, 4.5 < p_T < 5.0 (GeV/c)



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



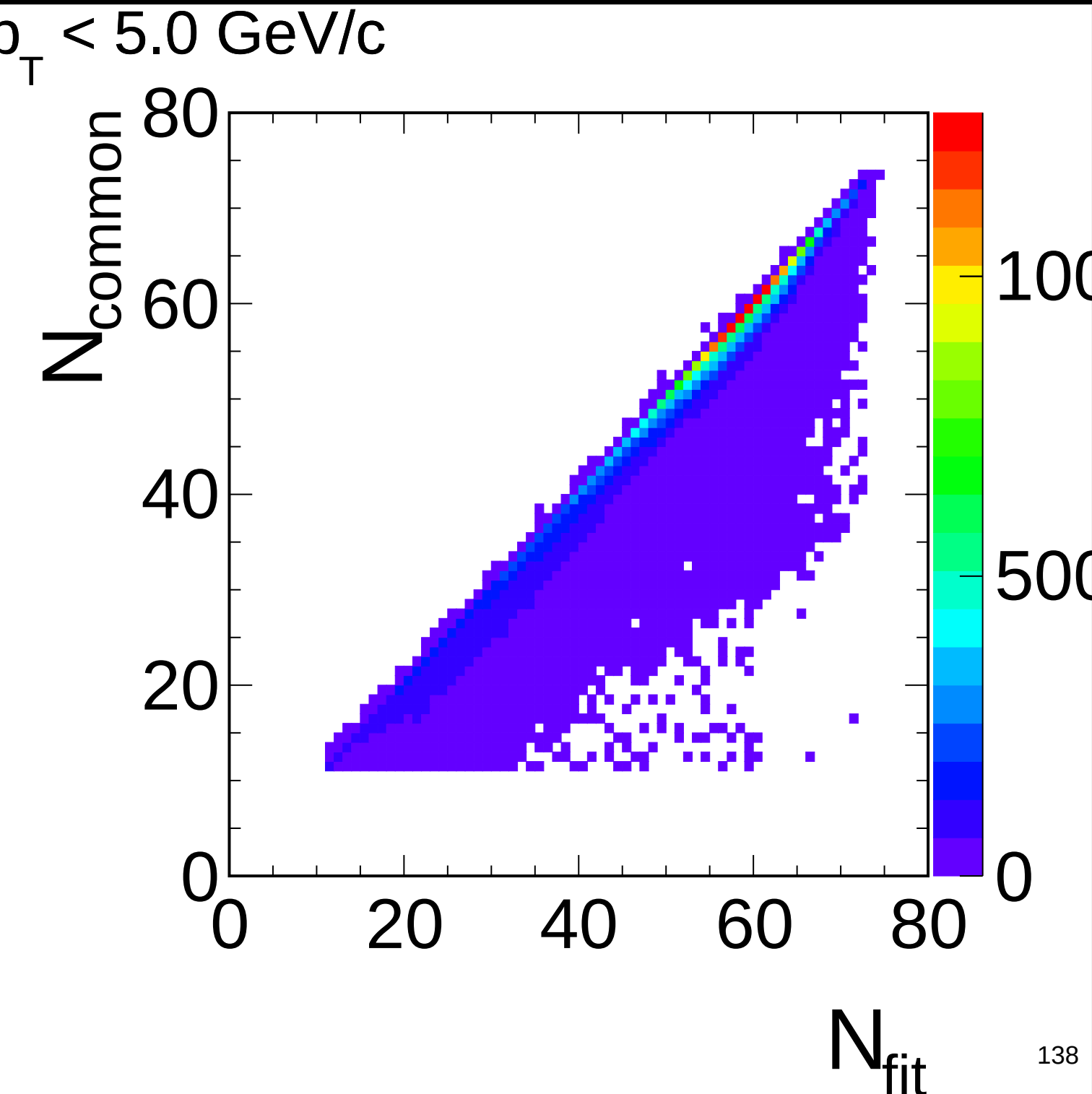
0, 4.5 < p_T < 5.0 (GeV/c)



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

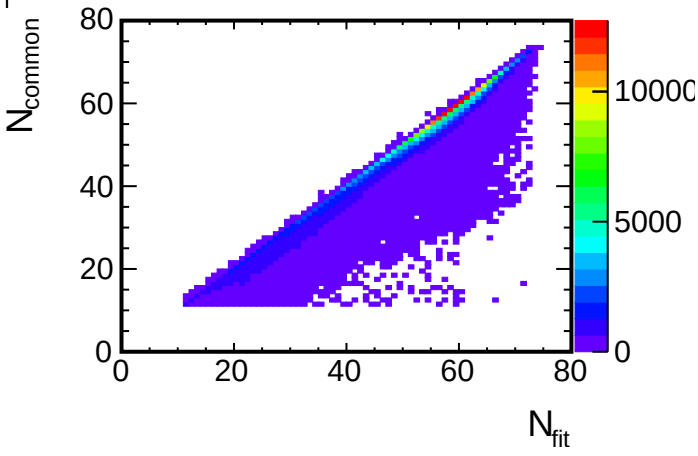
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

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

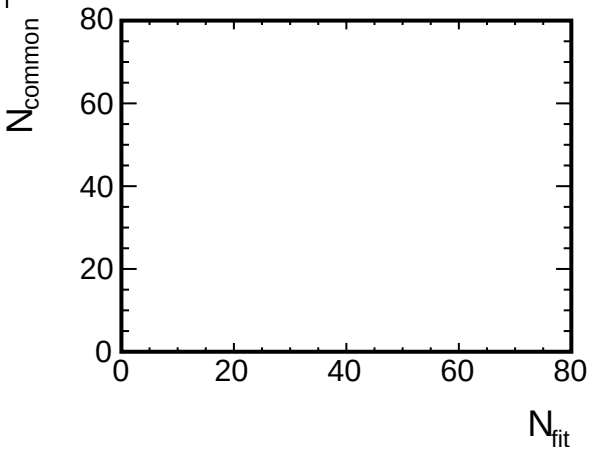


N_{common} vs N_{hit}, p_T dependence (Embedding:pi-, Real:pi-)

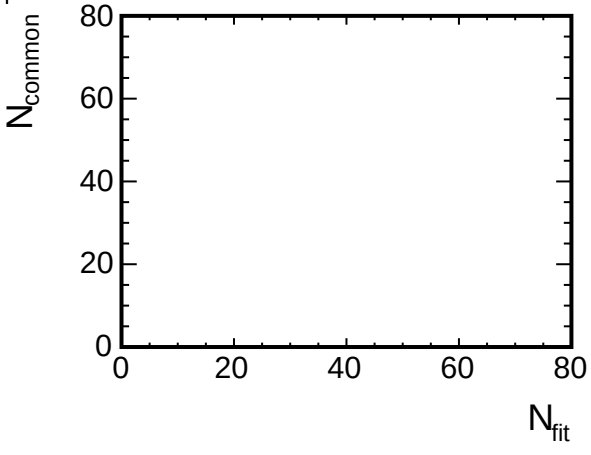
< p_T < 0.5 GeV/c



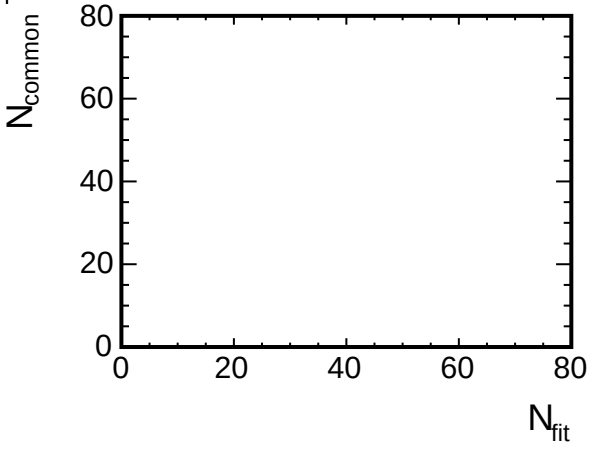
< p_T < 1.0 GeV/c



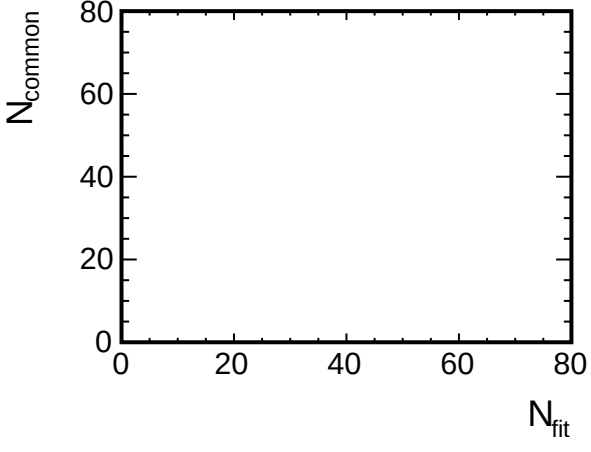
< p_T < 1.5 GeV/c



< p_T < 2.0 GeV/c

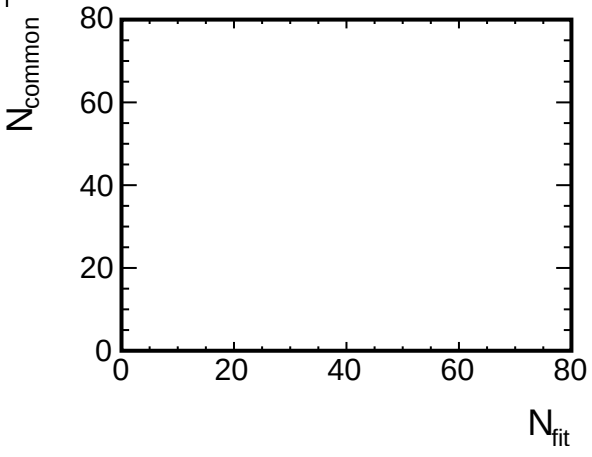


< p_T < 2.5 GeV/c

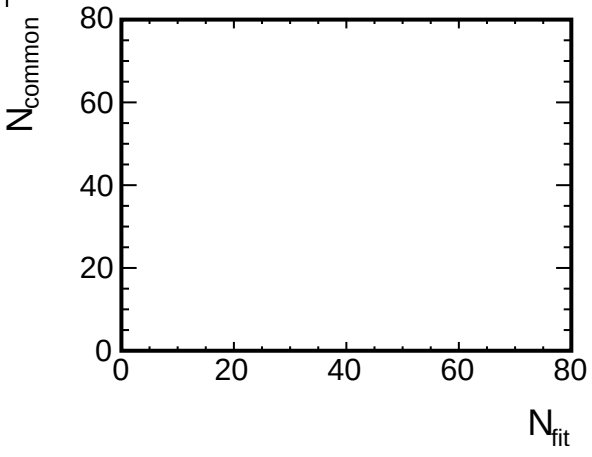


N_{common} vs N_{hit}, p_T dependence (Embedding:pi-, Real:pi-)

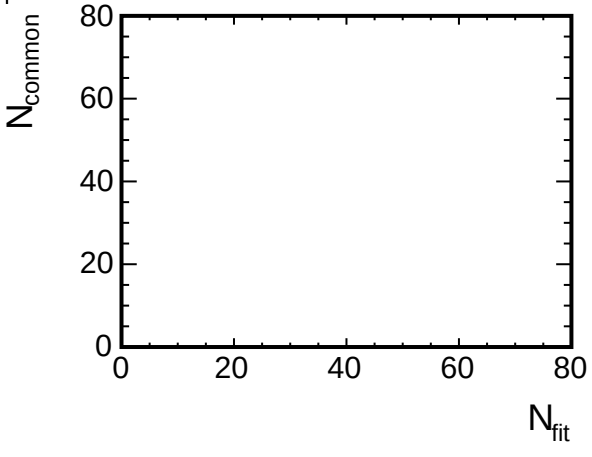
< p_T < 3.0 GeV/c



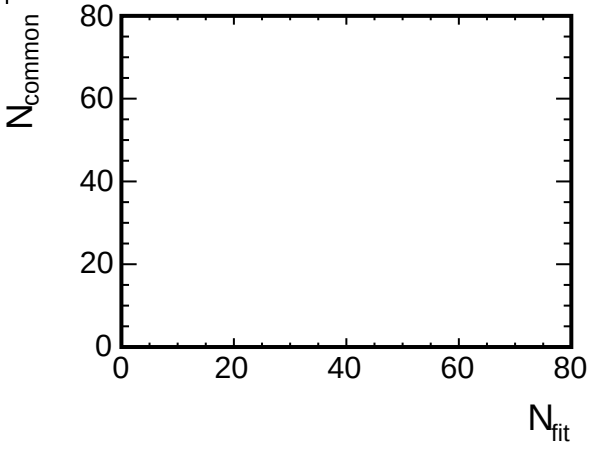
< p_T < 3.5 GeV/c



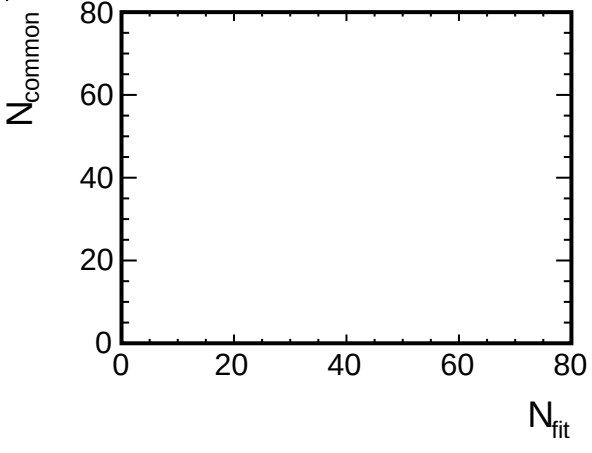
< p_T < 4.0 GeV/c



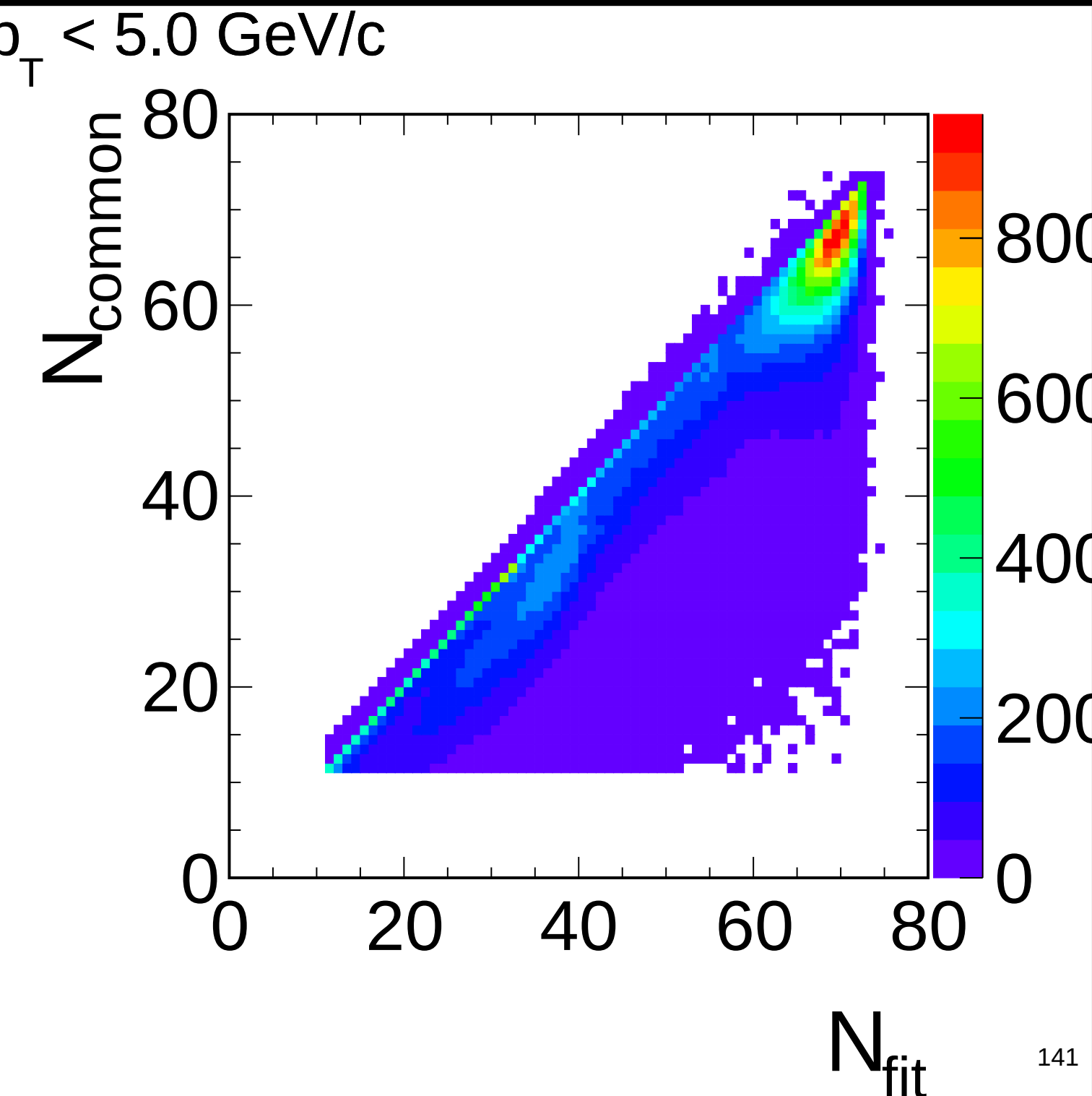
< p_T < 4.5 GeV/c



< p_T < 5.0 GeV/c

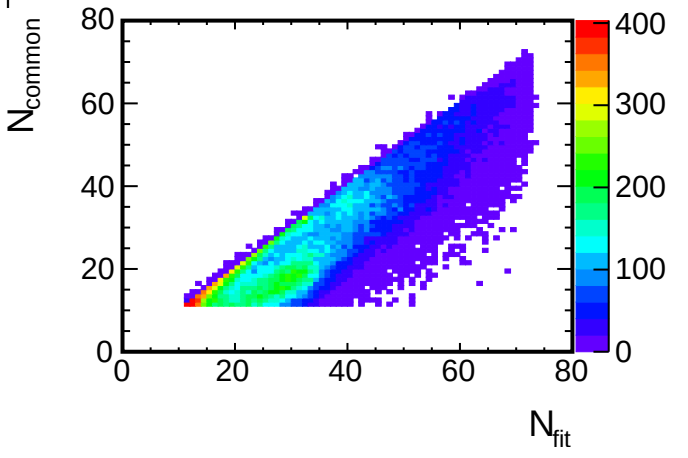


N_{common} vs N_{hit} (Embedding:alpha, Real:alpha)

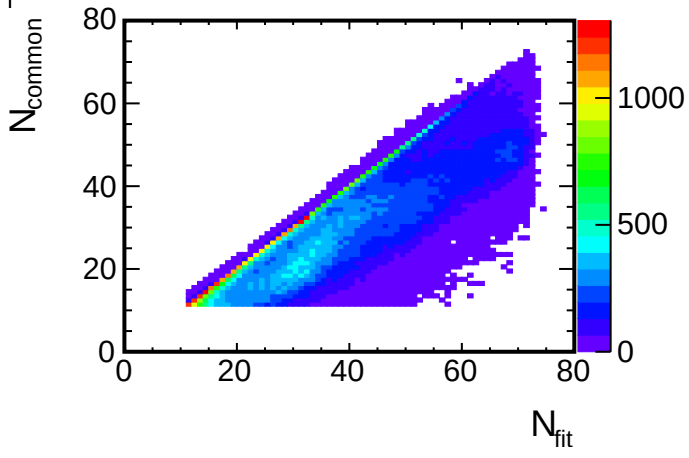


N_{common} vs N_{hit}, p_T dependence (Embedding:alpha, Real:alpha)

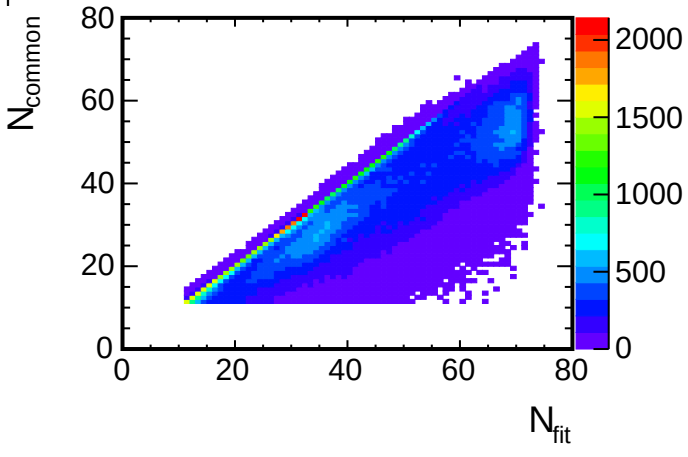
< p_T < 0.5 GeV/c



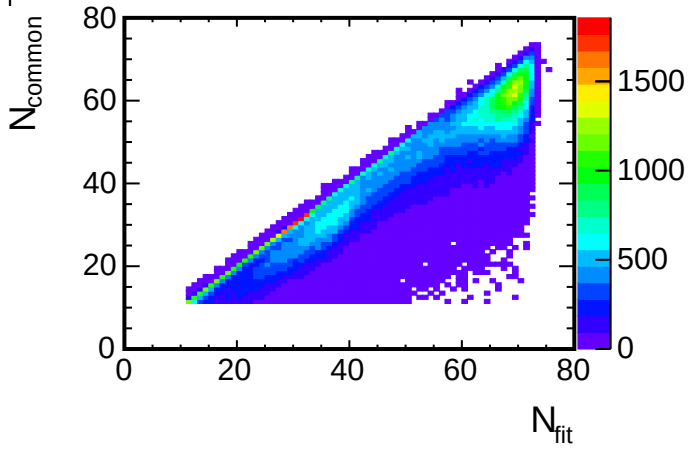
< p_T < 1.0 GeV/c



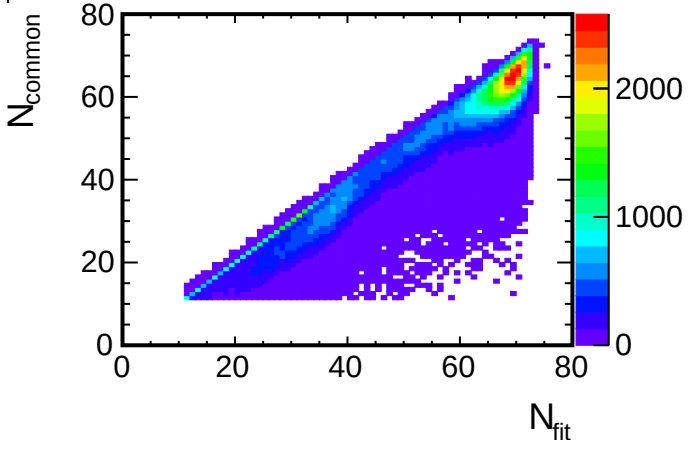
< p_T < 1.5 GeV/c



< p_T < 2.0 GeV/c

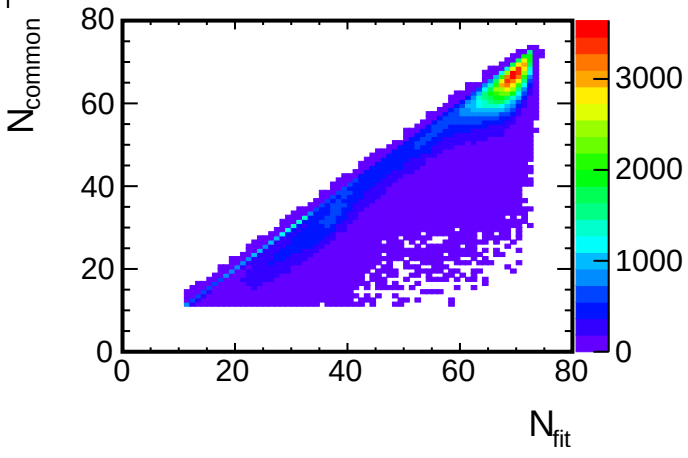


< p_T < 2.5 GeV/c

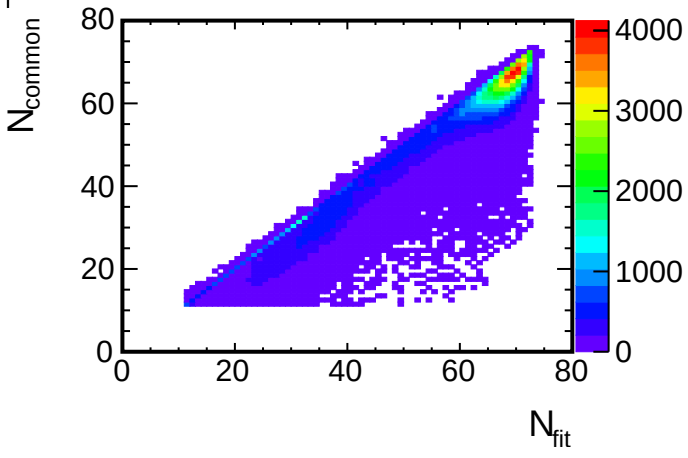


N_{common} vs N_{hit}, p_T dependence (Embedding:alpha, Real:alpha)

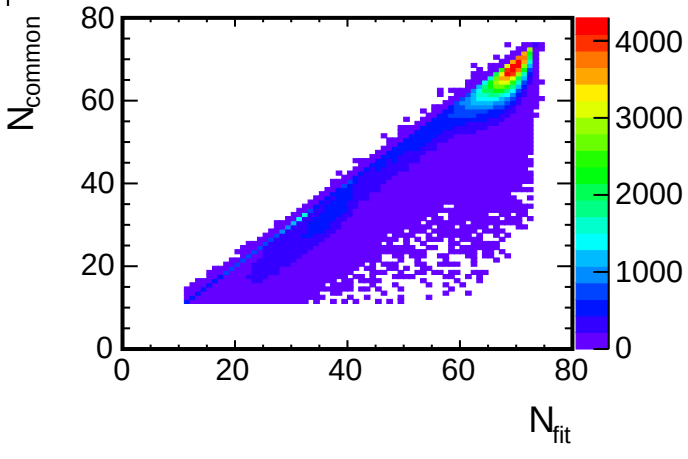
$< p_T <$ 3.0 GeV/c



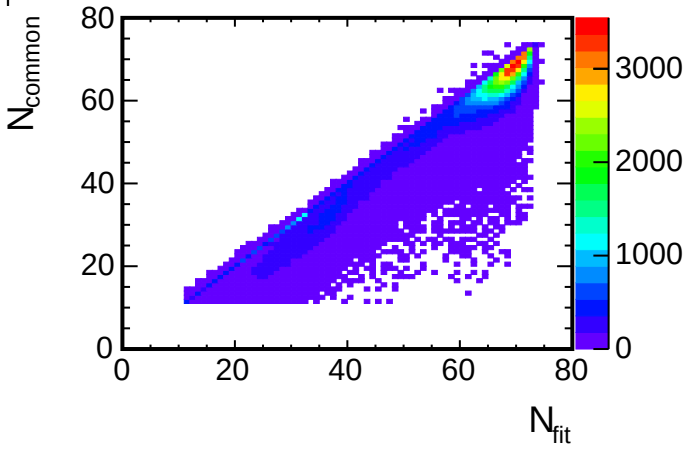
$< p_T <$ 3.5 GeV/c



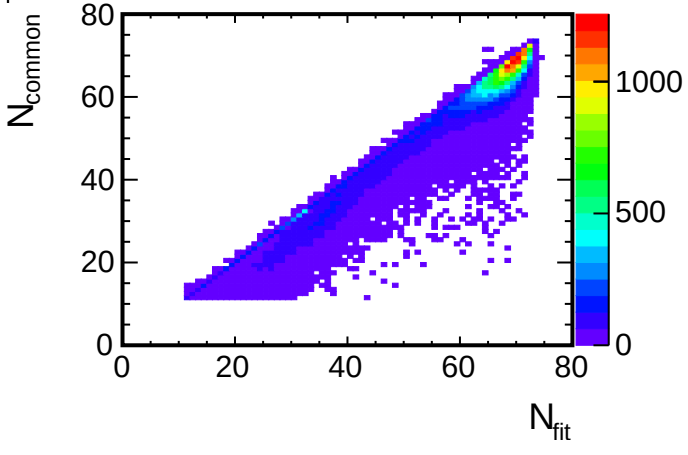
$< p_T <$ 4.0 GeV/c



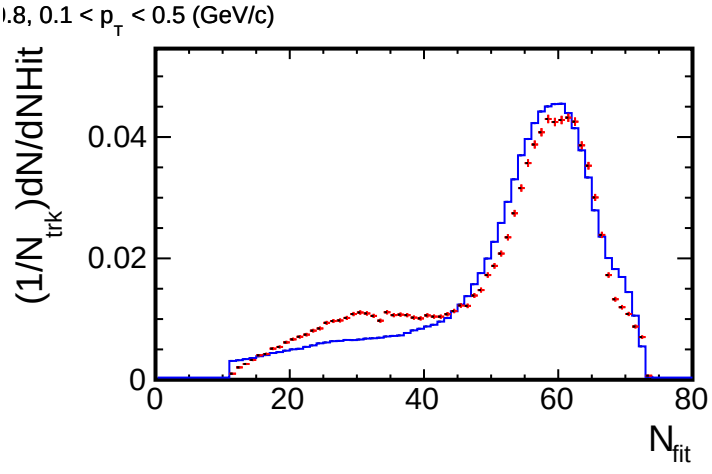
$< p_T <$ 4.5 GeV/c

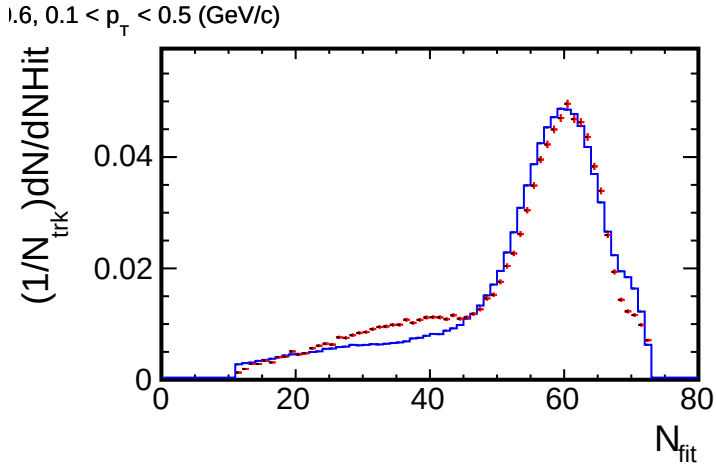


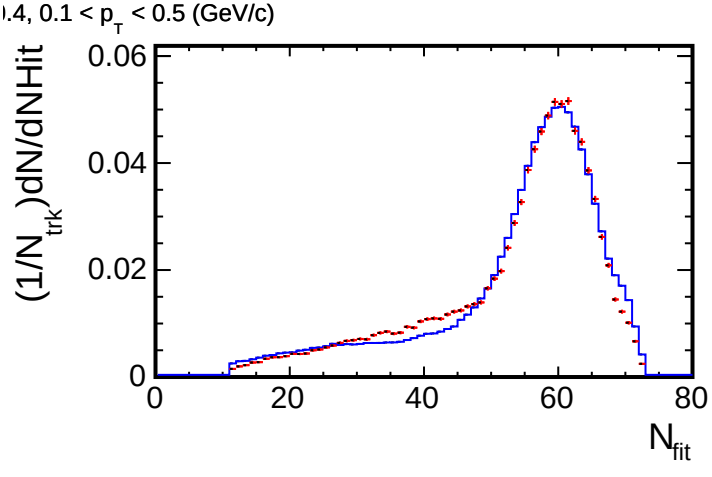
$< p_T <$ 5.0 GeV/c

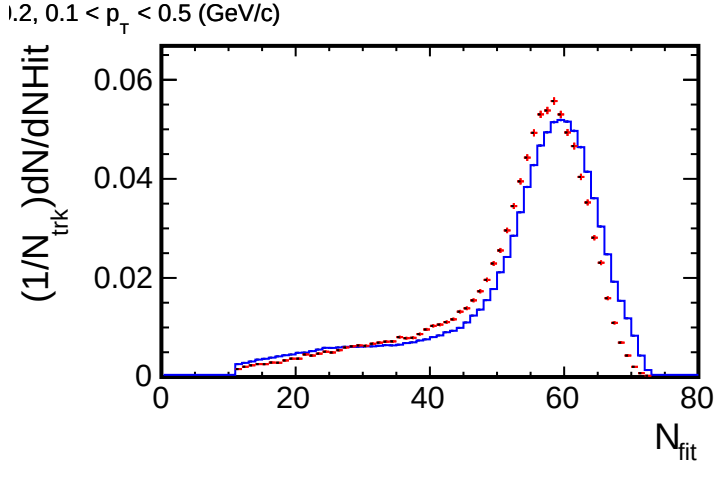


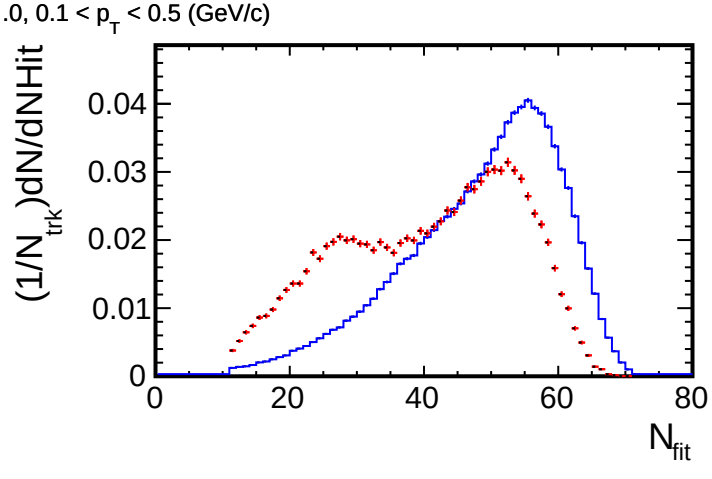
NHit distribution for (p_T, η) slices







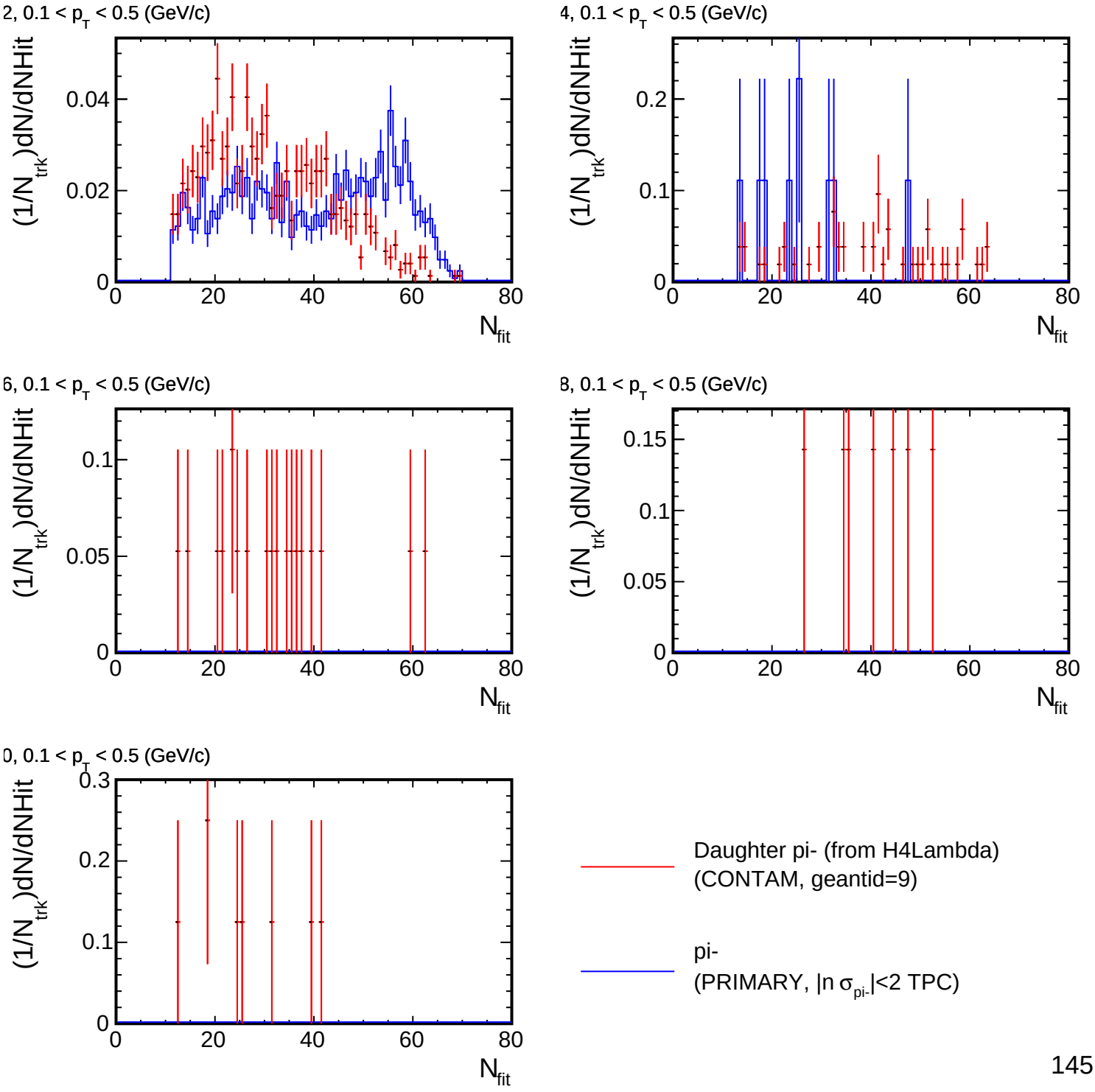




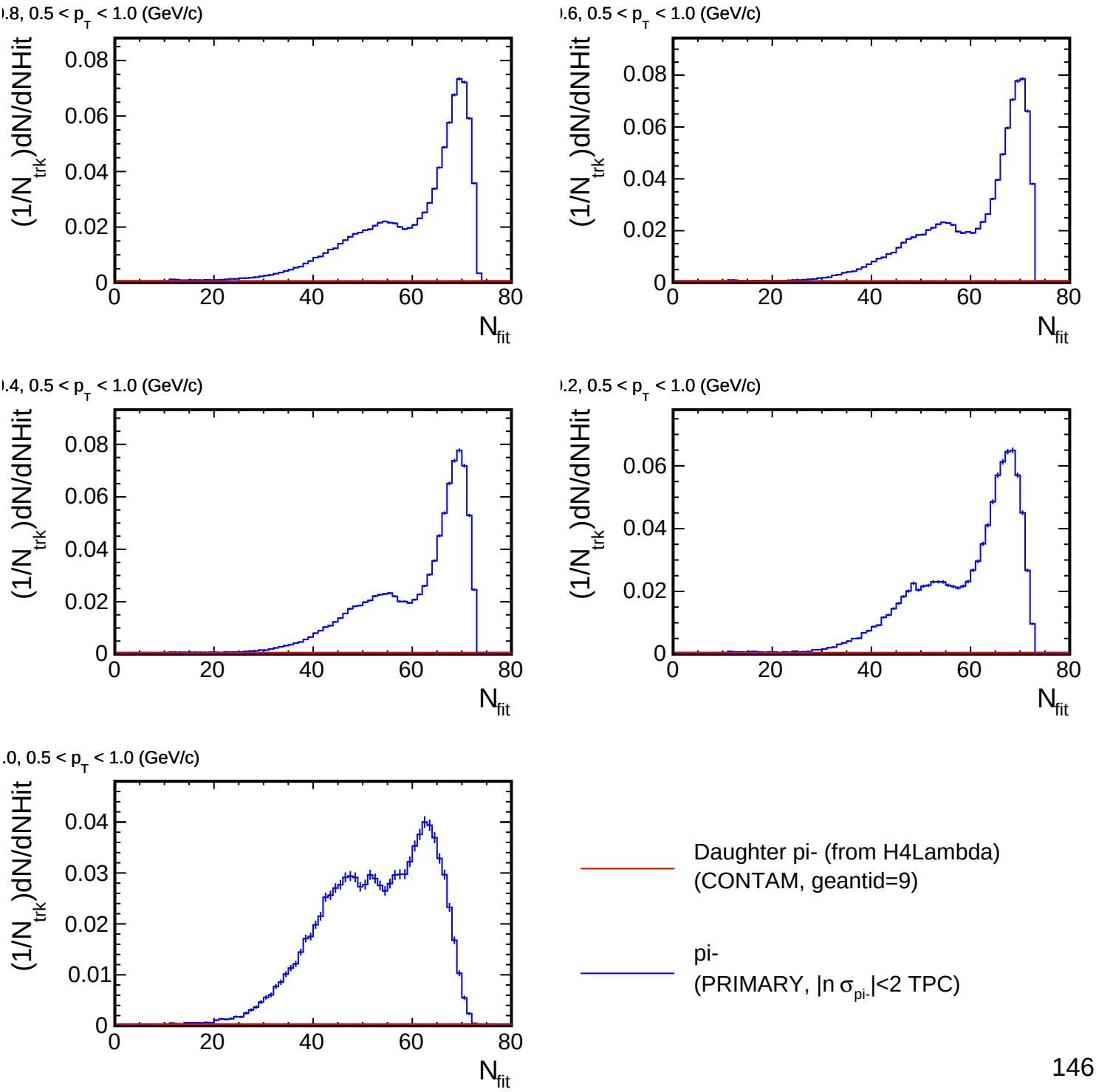
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

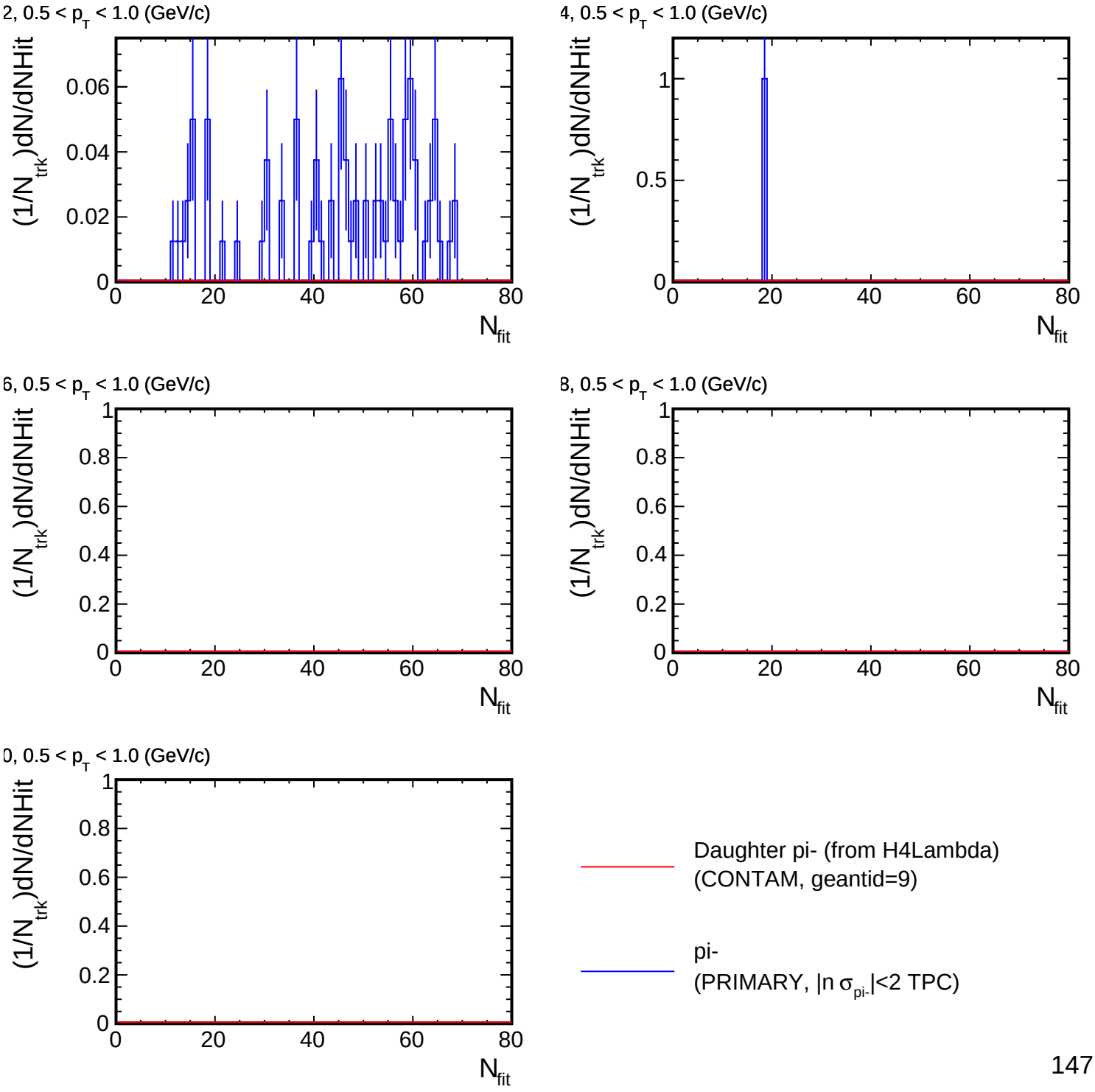
NHit distribution for (p_T, η) slices



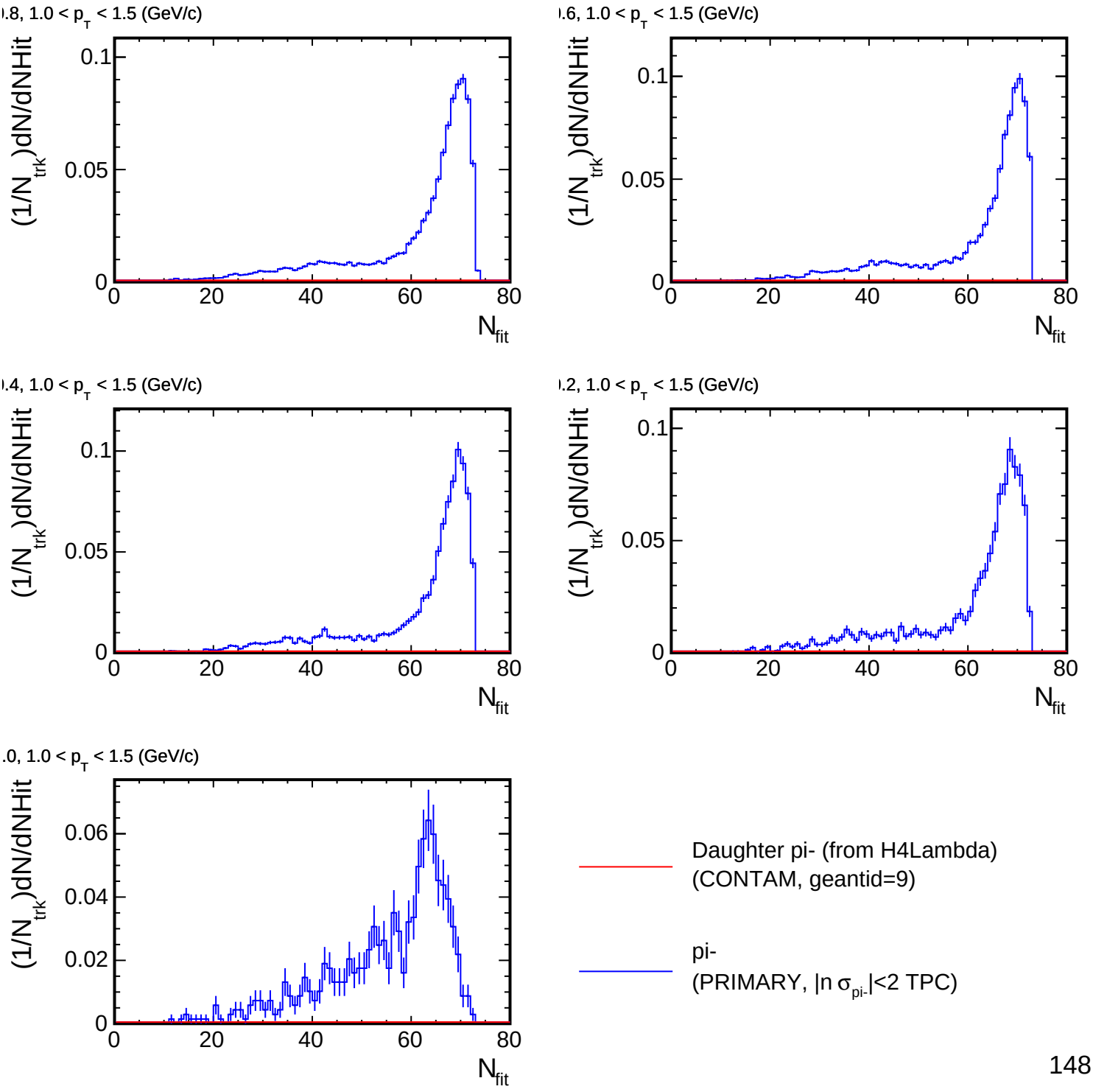
NHit distribution for (p_T, η) slices



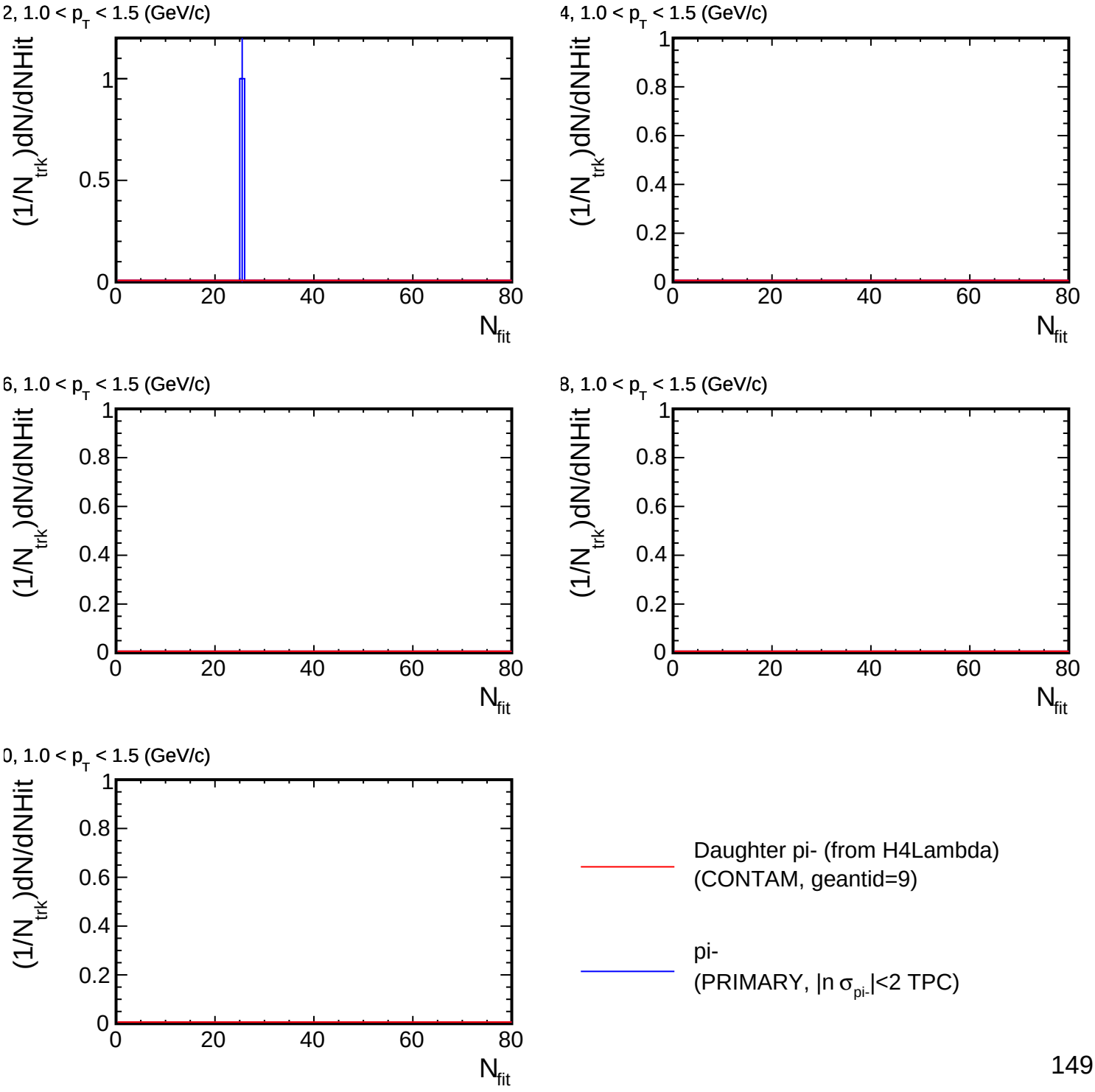
NHit distribution for (p_T, η) slices



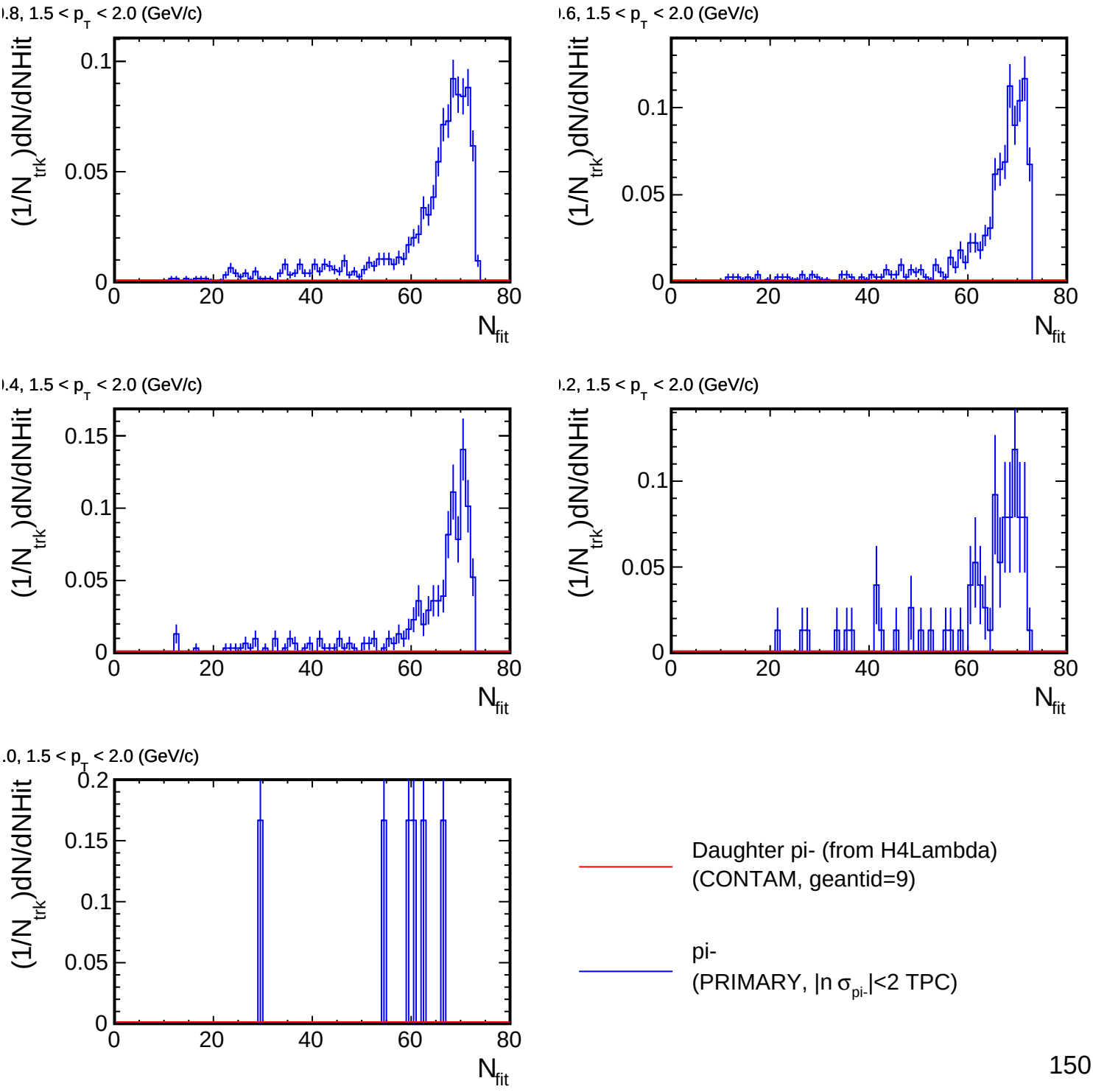
NHit distribution for (p_T, η) slices



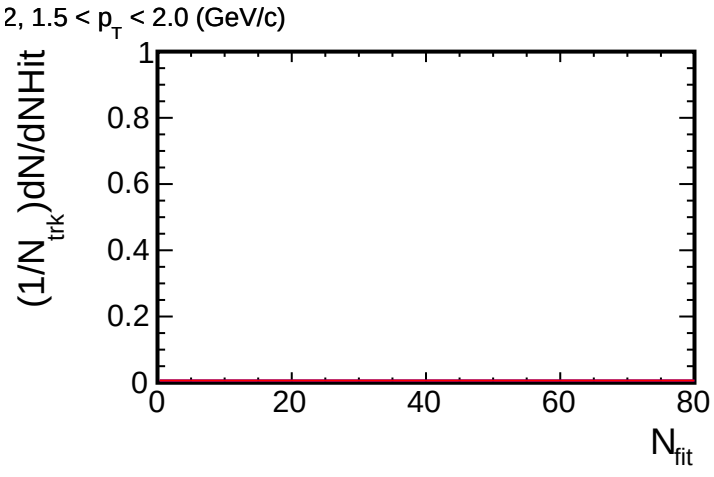
NHit distribution for (p_T, η) slices

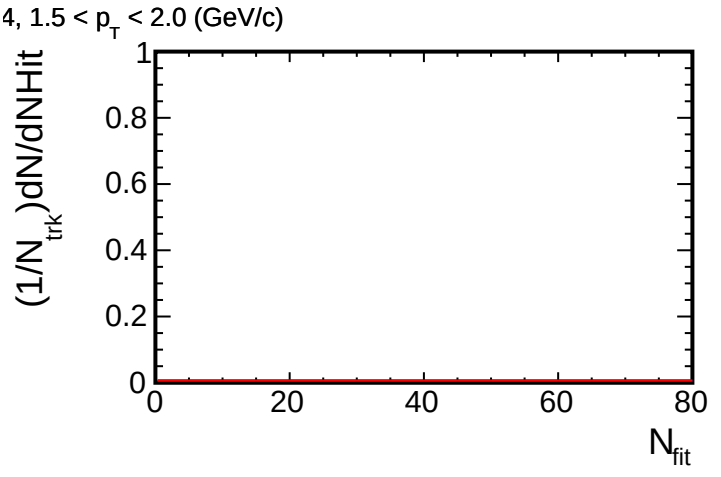


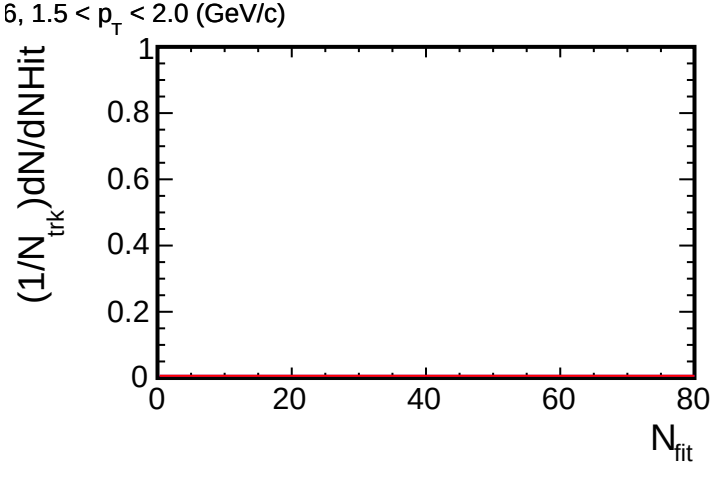
NHit distribution for (p_T, η) slices

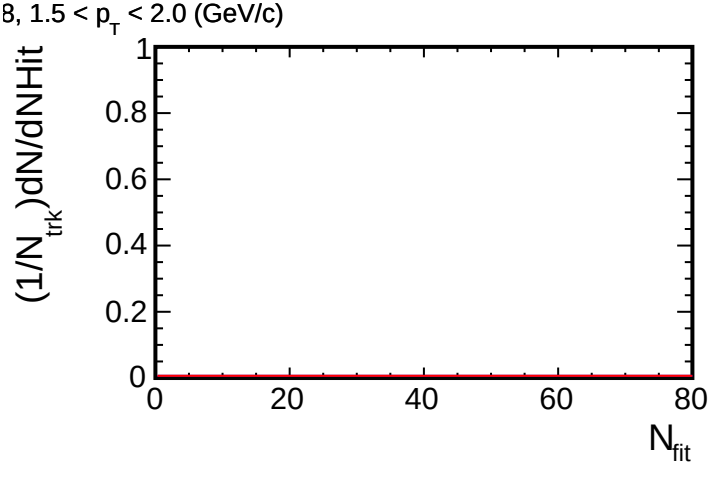


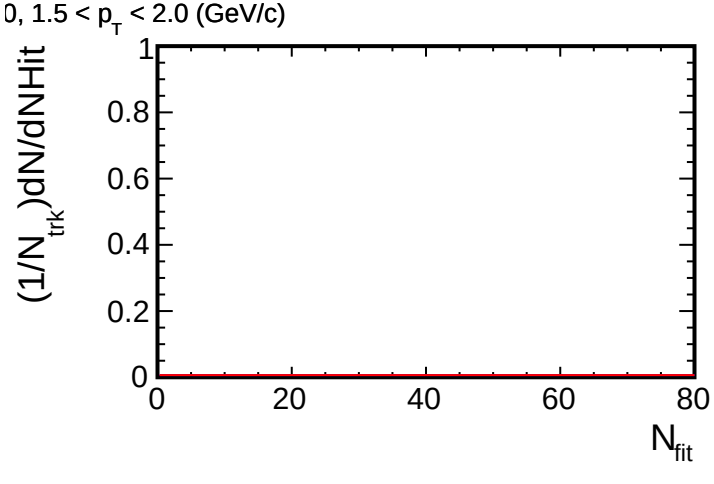
NHit distribution for (p_T, η) slices







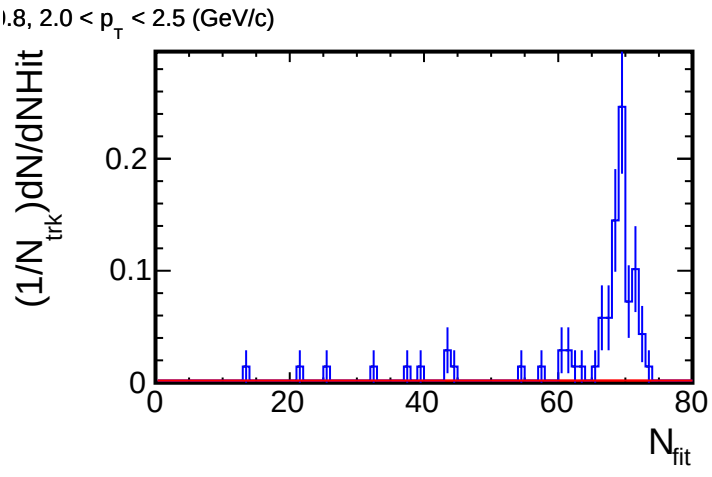


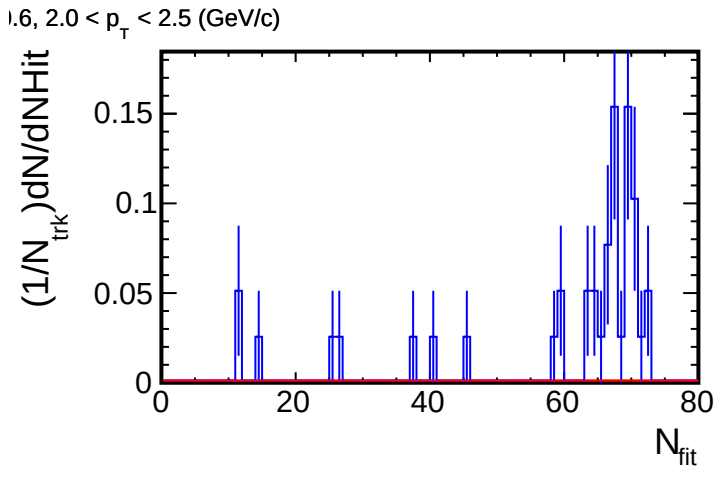


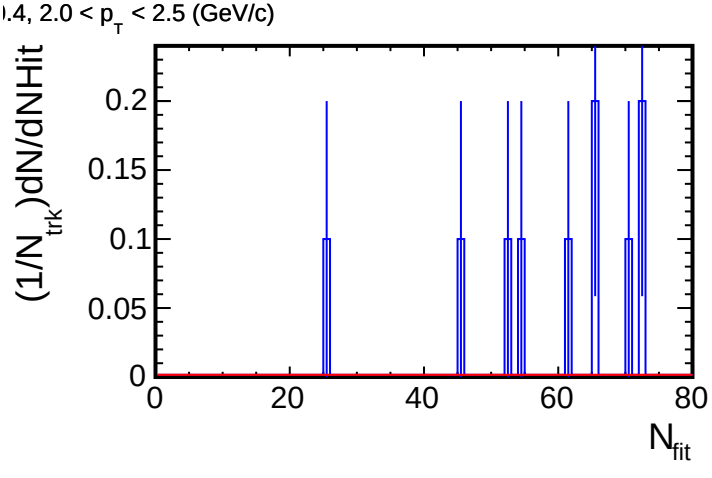
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

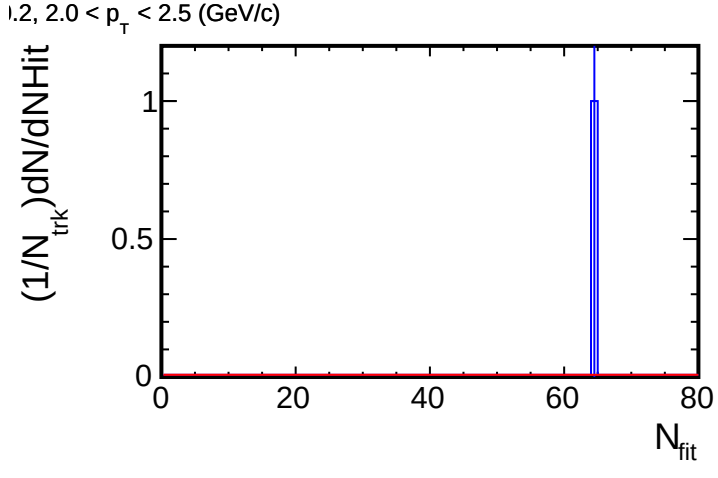
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

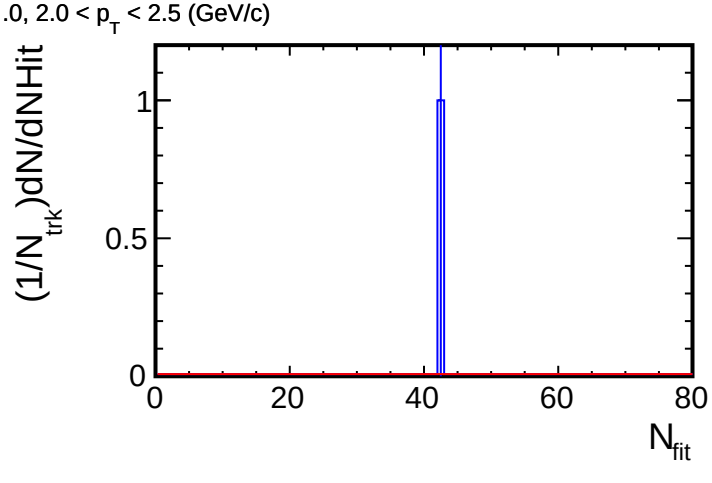
NHit distribution for (p_T, η) slices







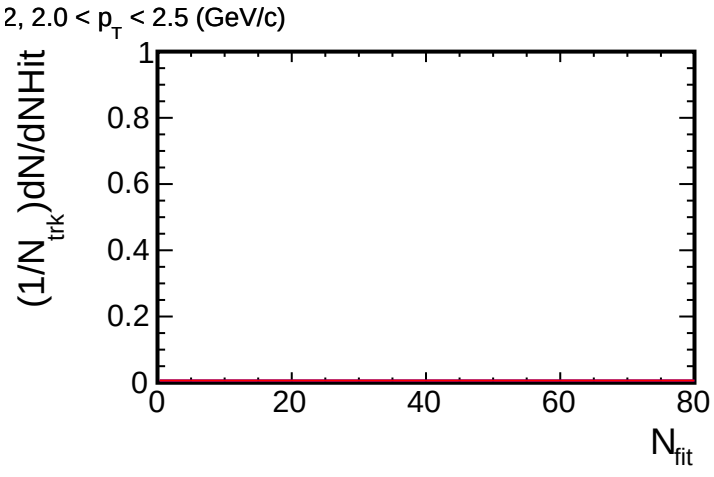


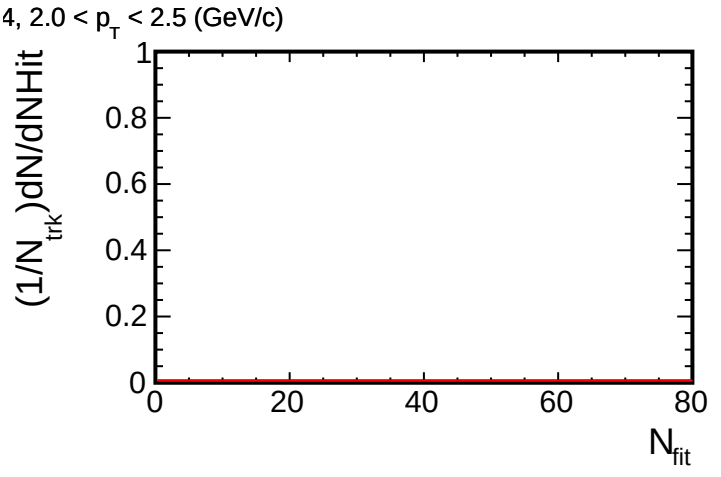


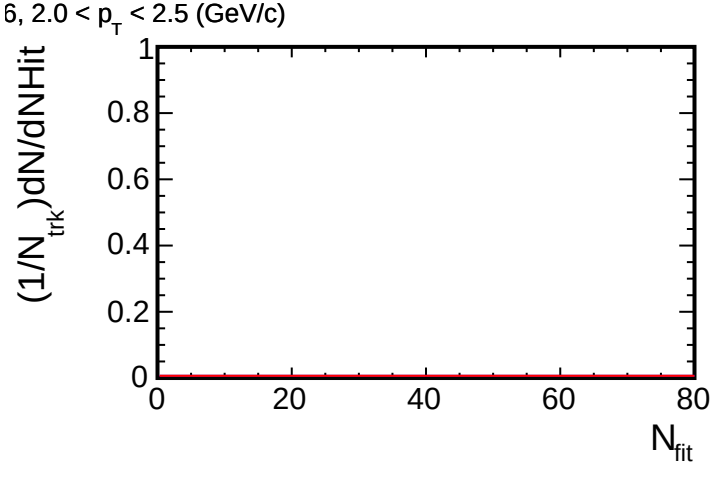
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

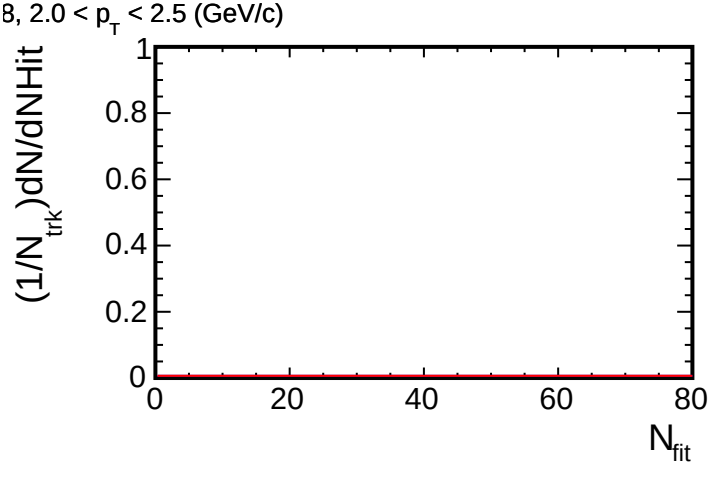
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

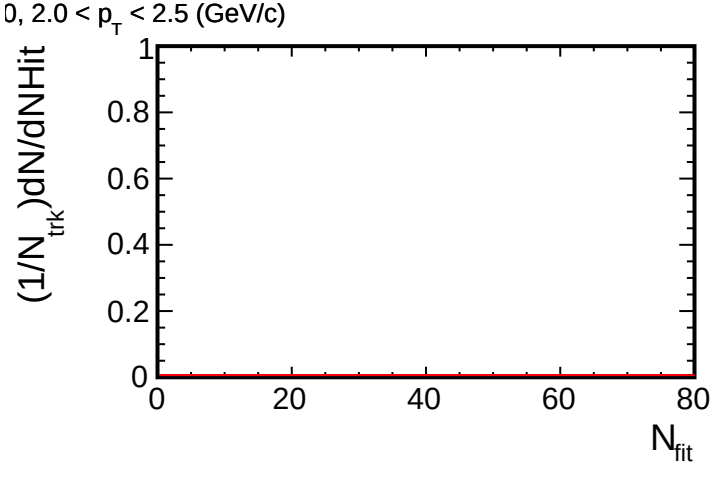
NHit distribution for (p_T, η) slices







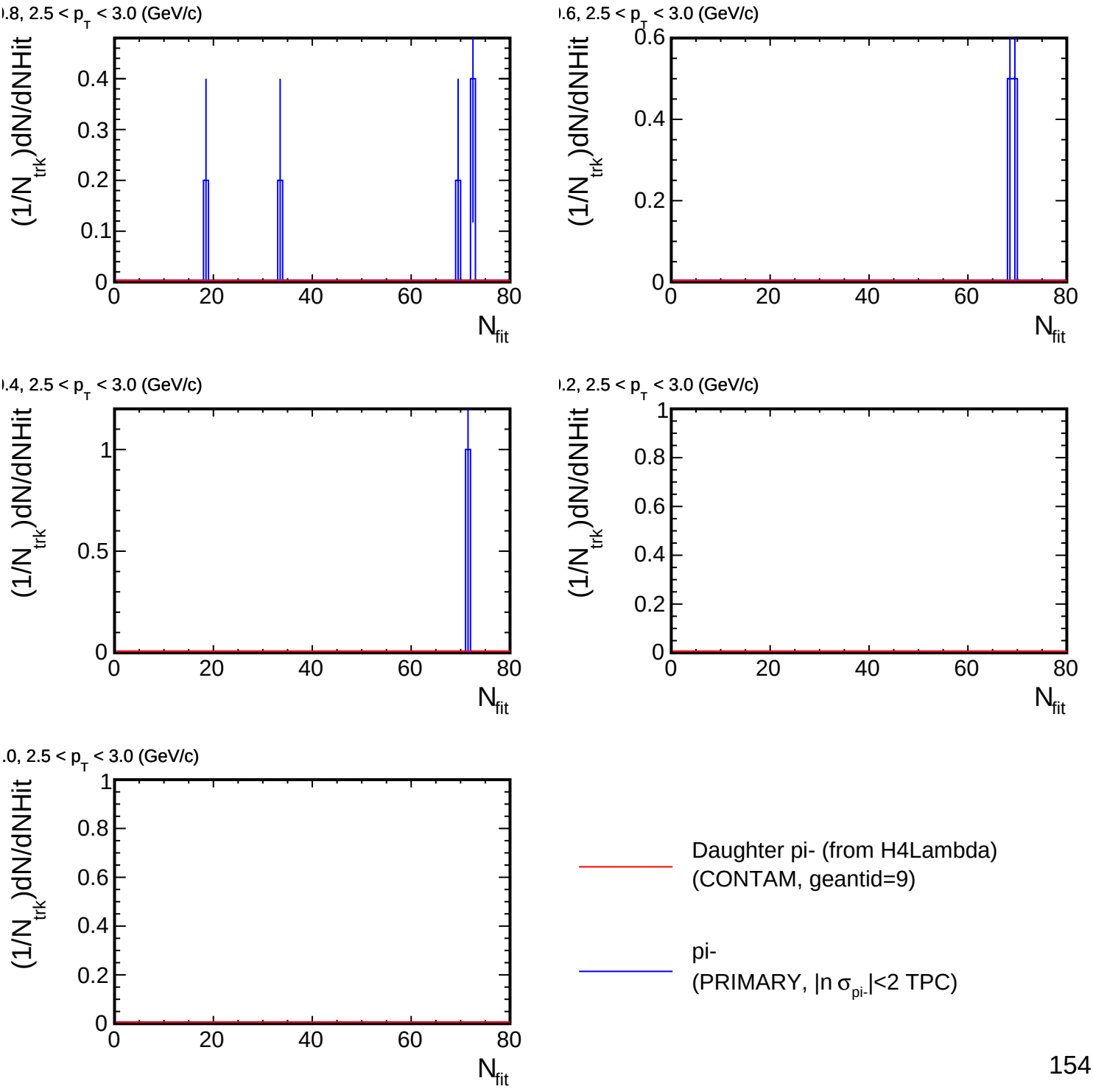




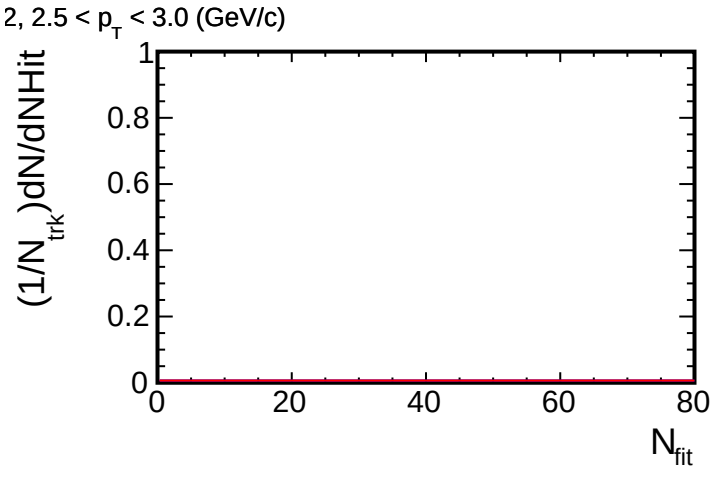
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

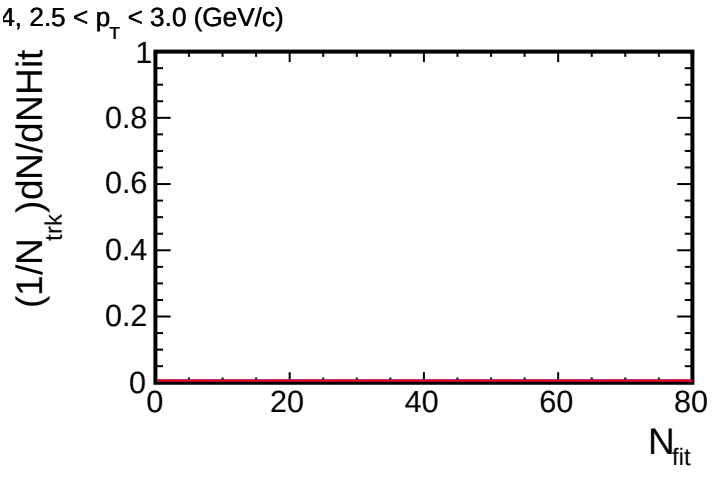
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

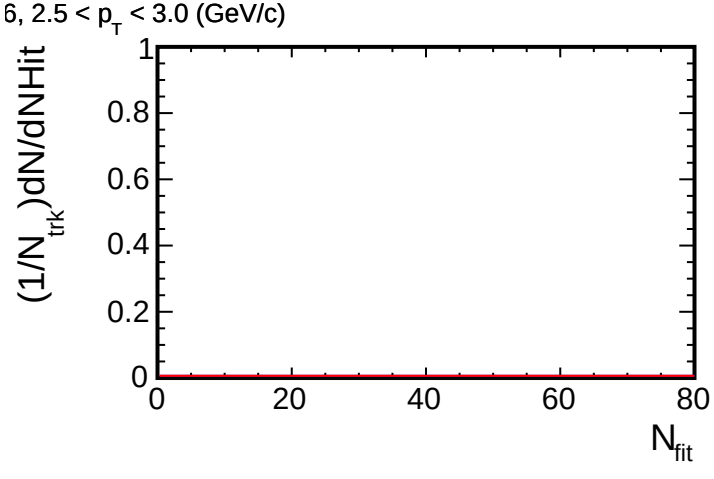
NHit distribution for (p_T, η) slices

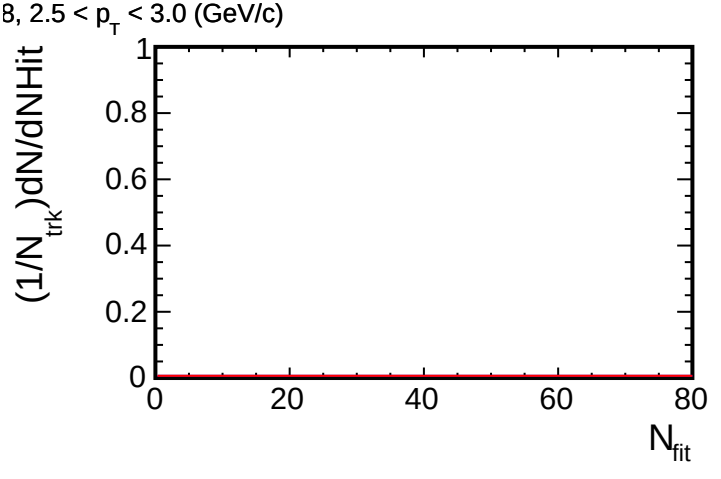


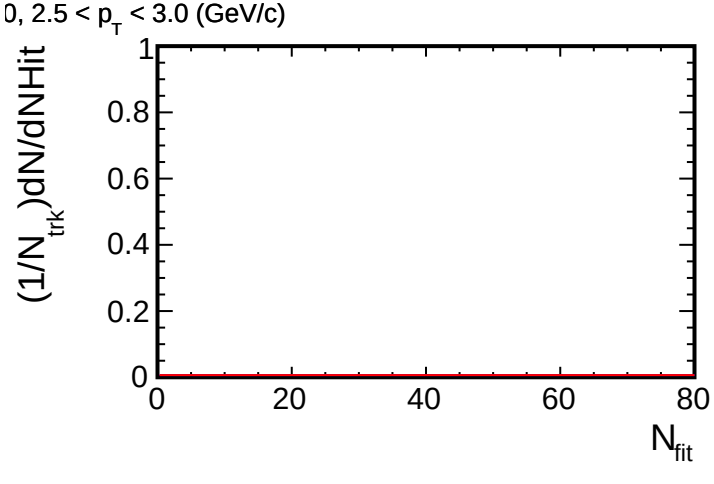
NHit distribution for (p_T, η) slices







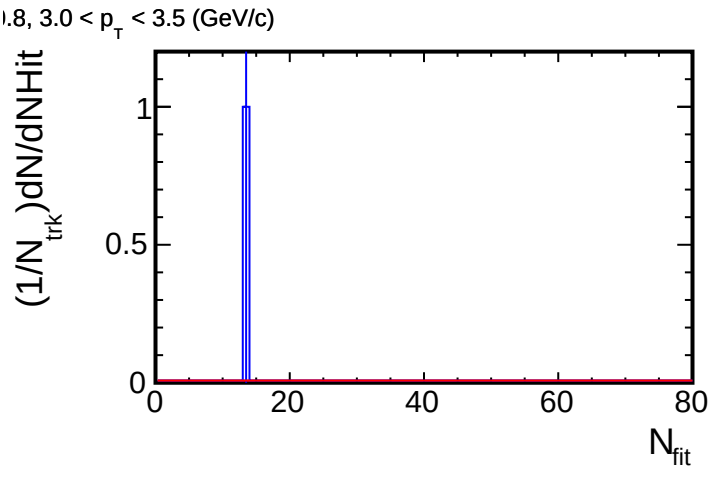


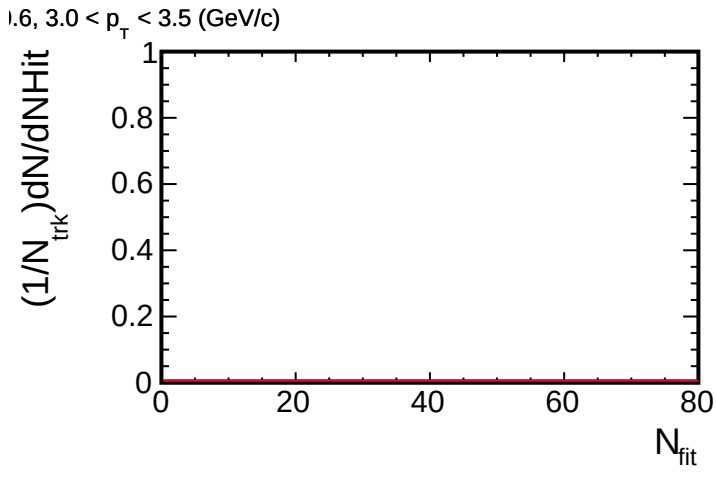


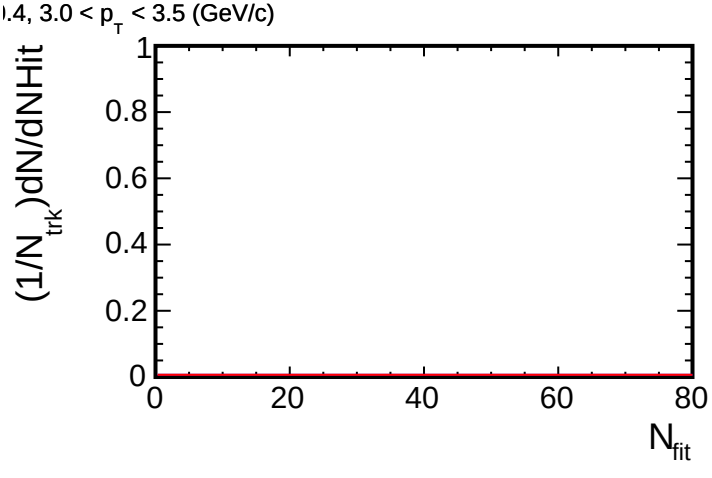
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

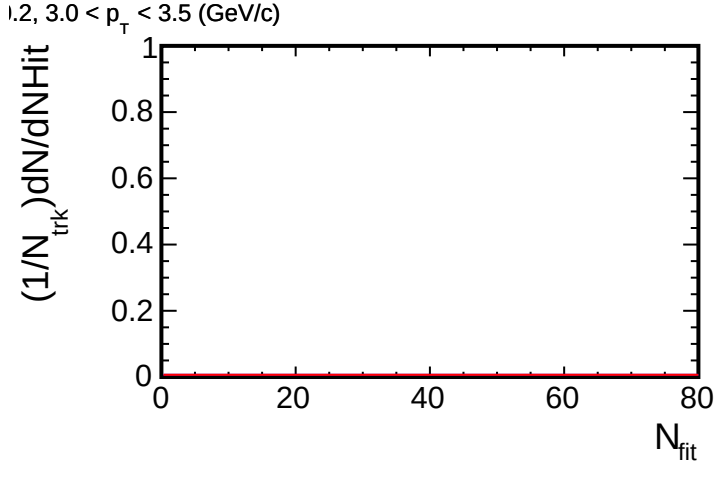
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

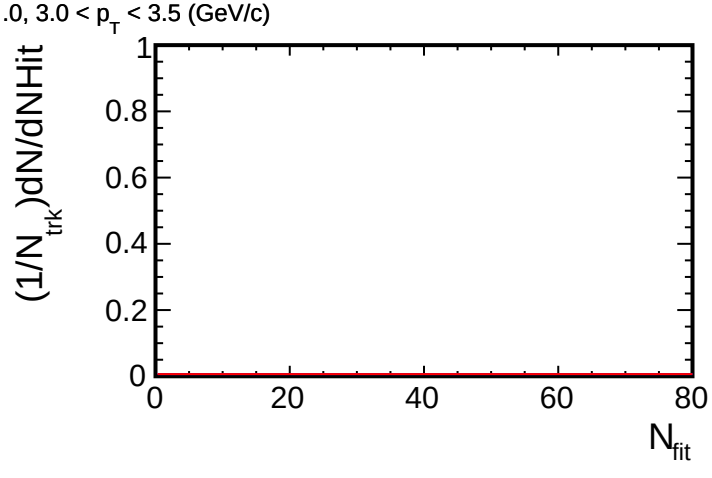
NHit distribution for (p_T, η) slices







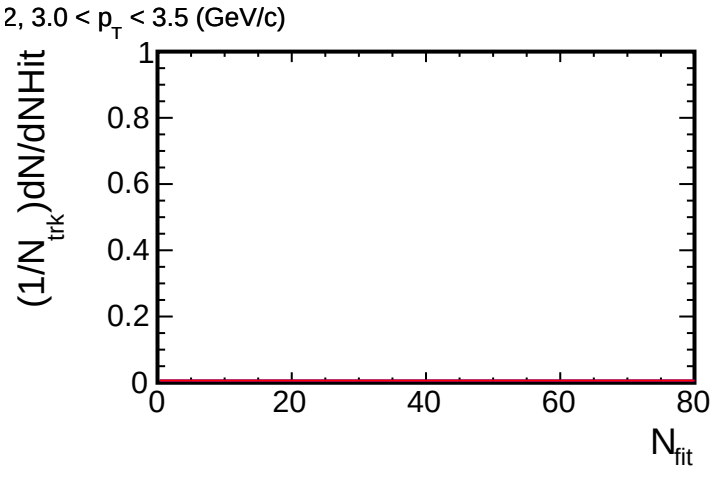


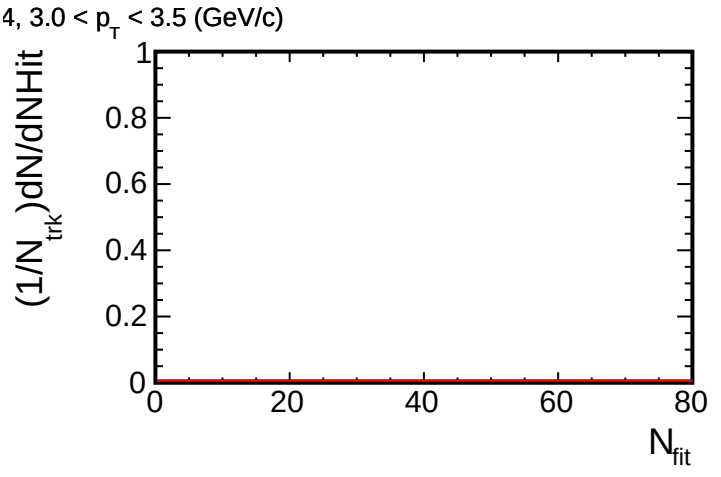


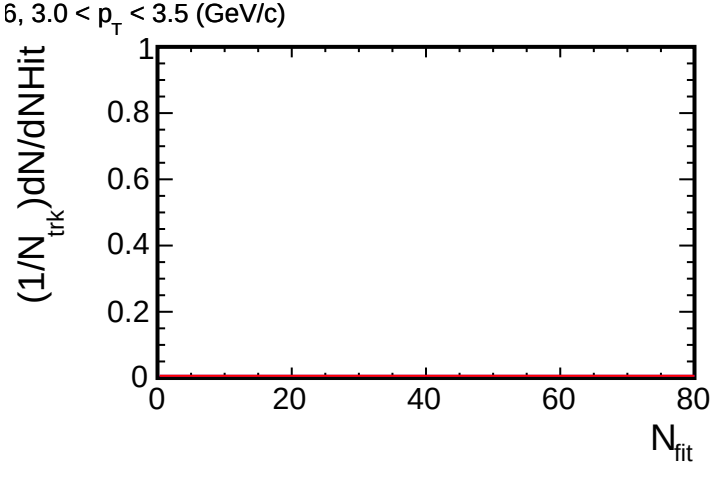
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

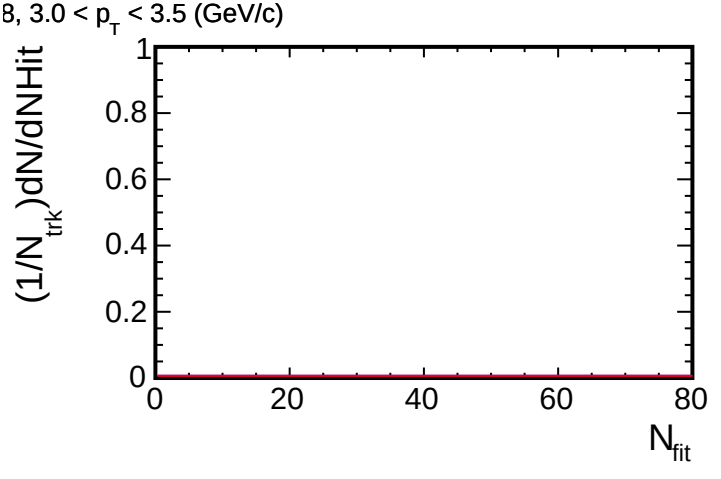
pi-
(PRIMARY, |n σ$_{pi-}$|<2 TPC)

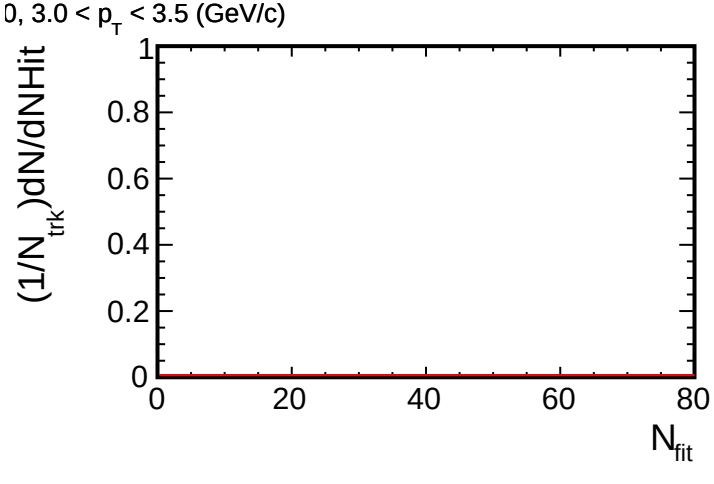
NHit distribution for (p_T, η) slices







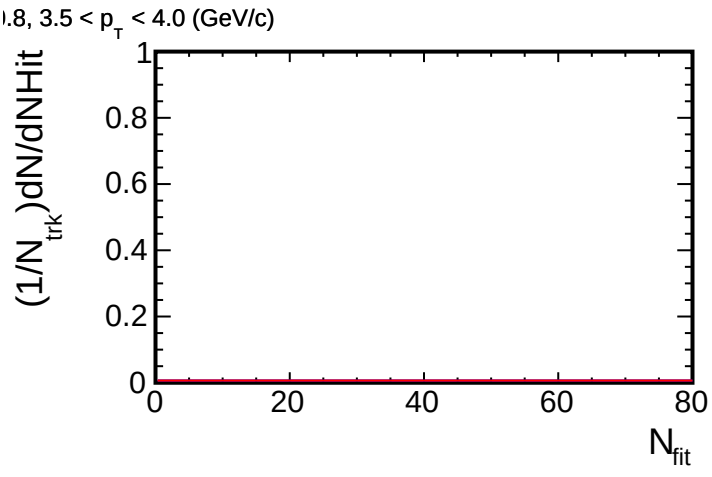


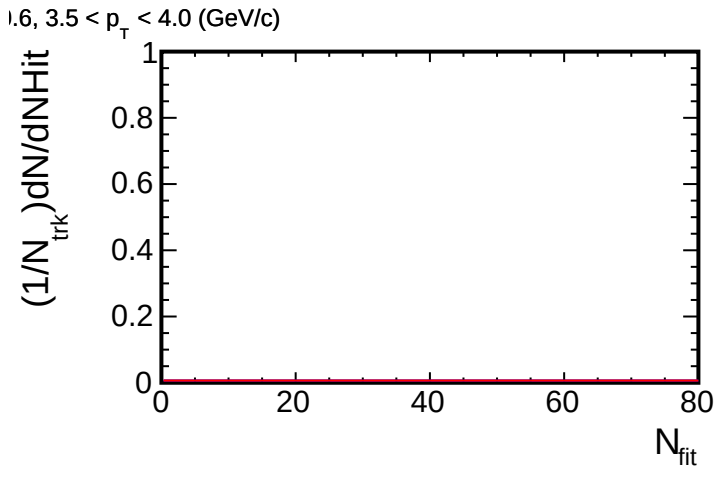


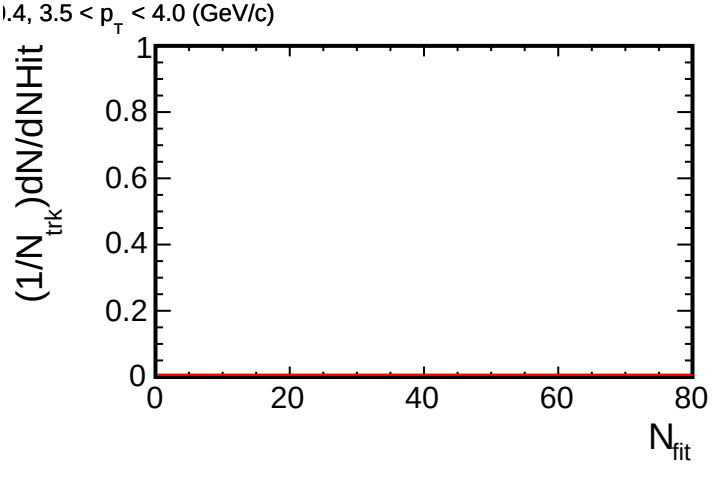
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

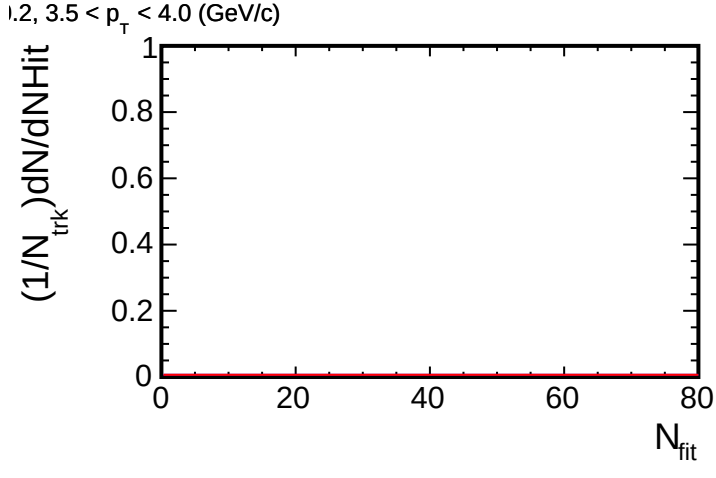
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

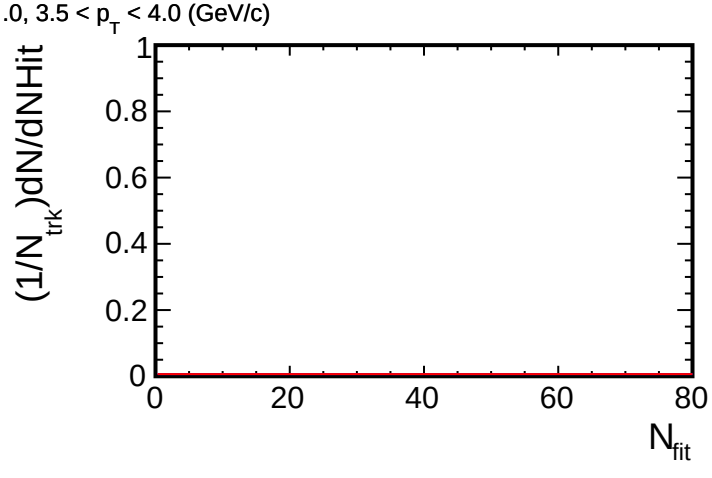
NHit distribution for (p_T, η) slices







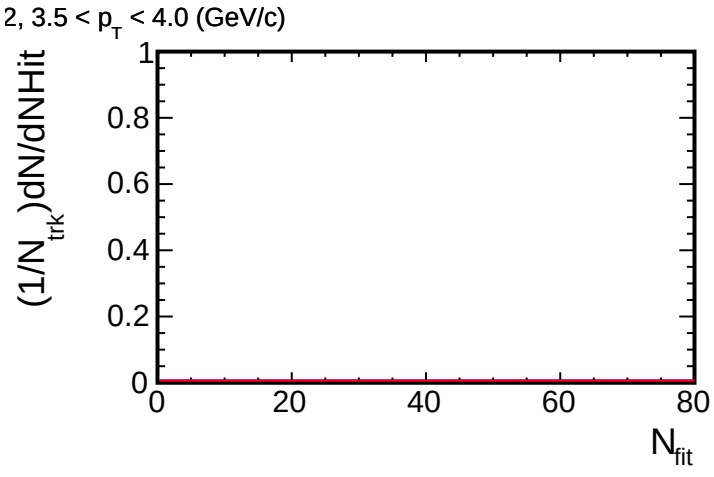


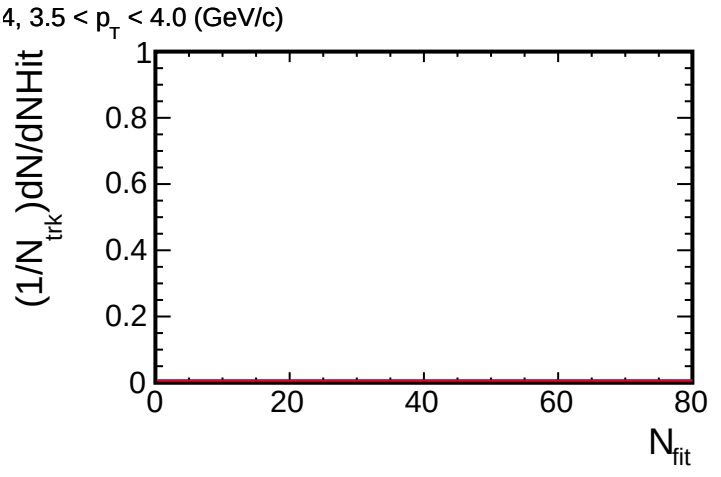


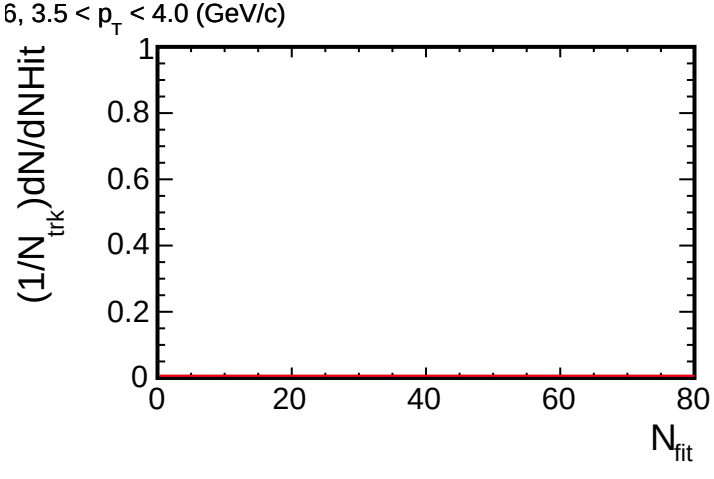
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

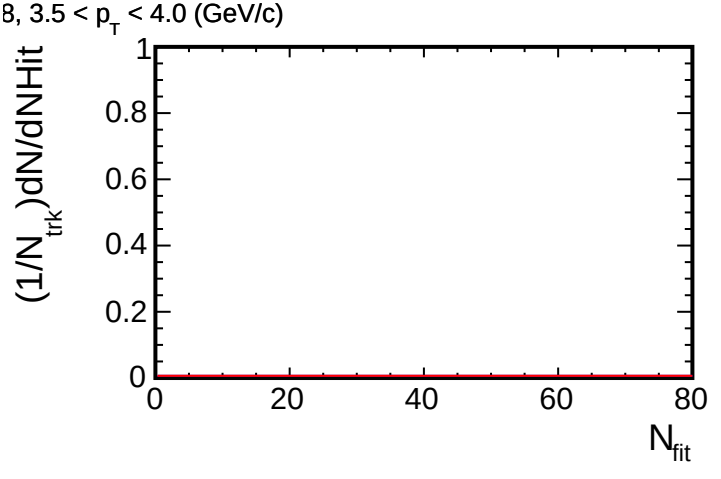
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

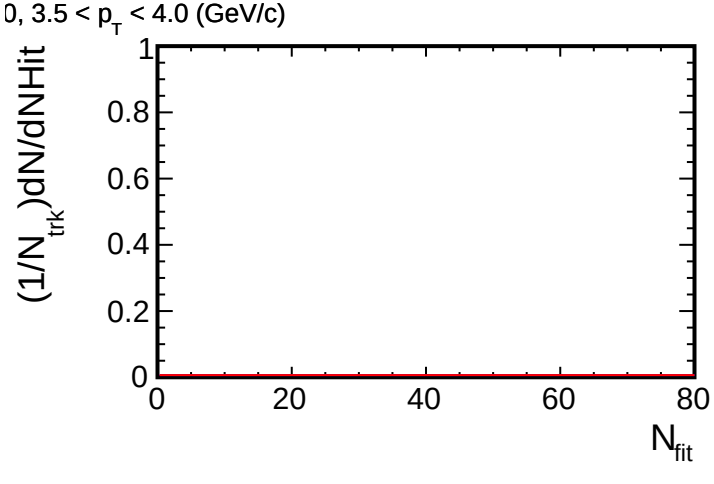
NHit distribution for (p_T, η) slices







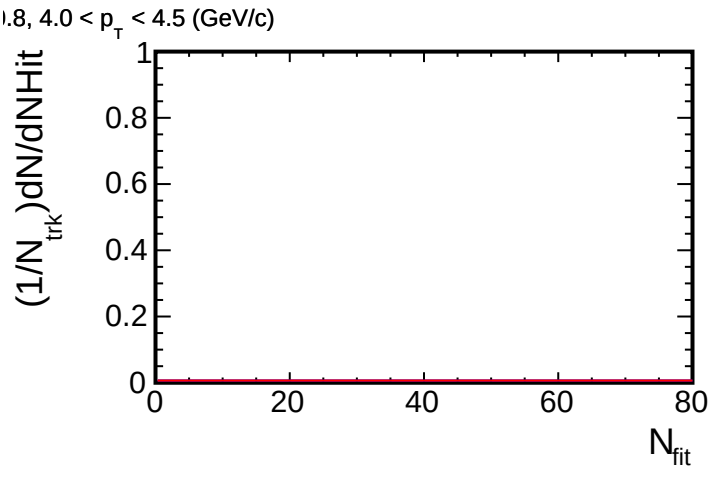


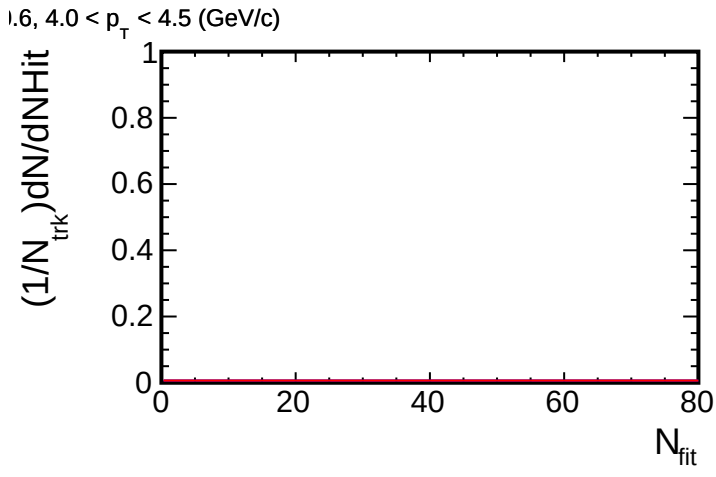


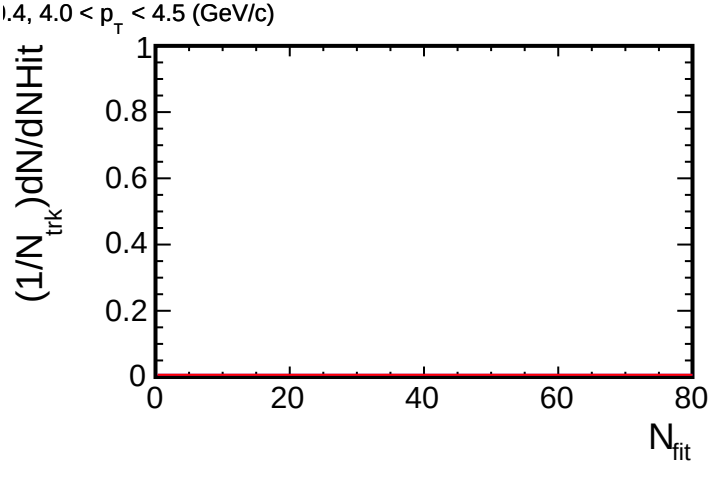
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

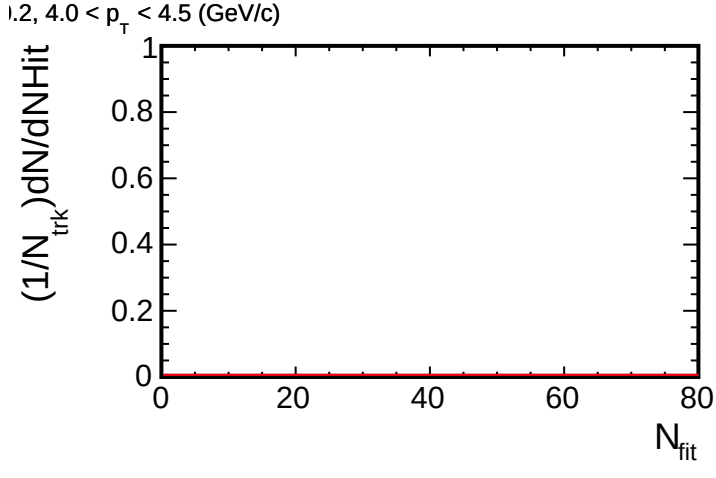
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

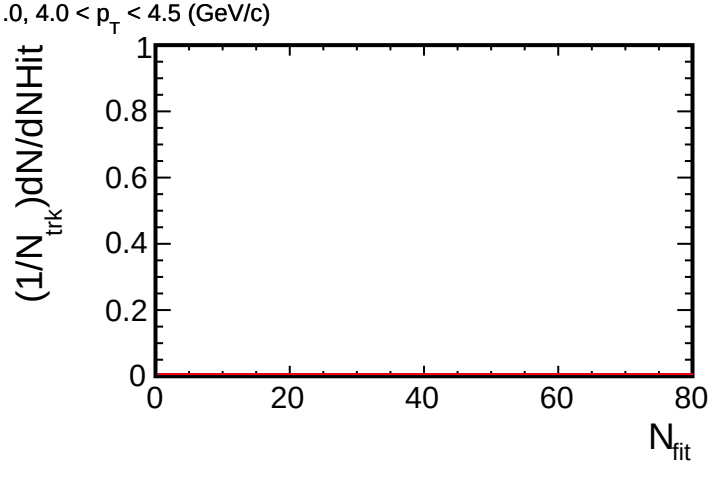
NHit distribution for (p_T, η) slices







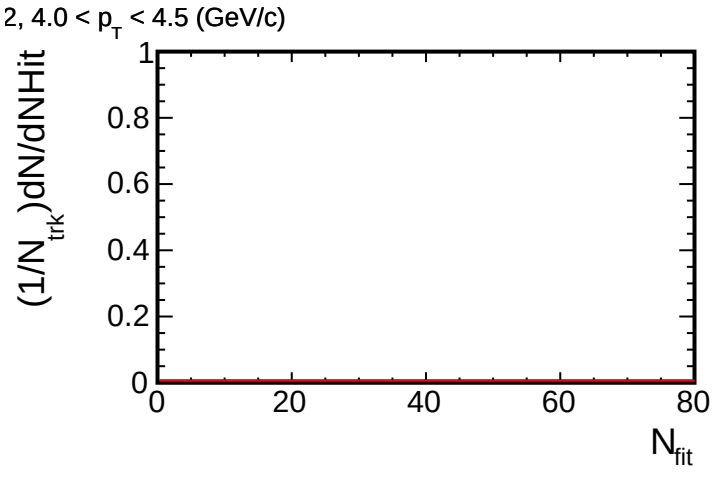


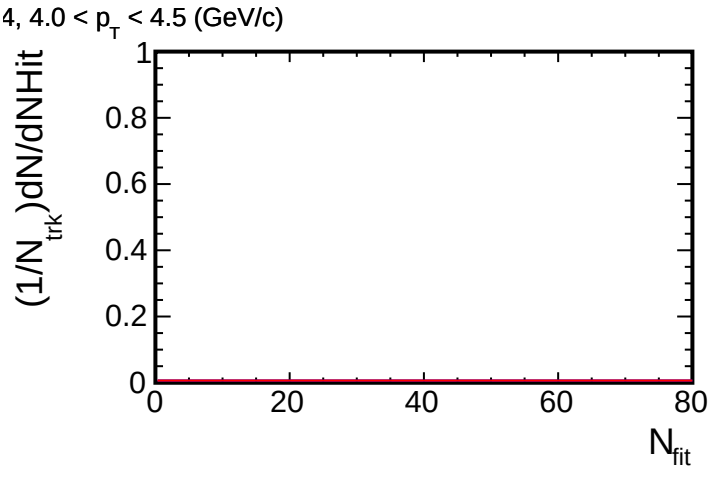


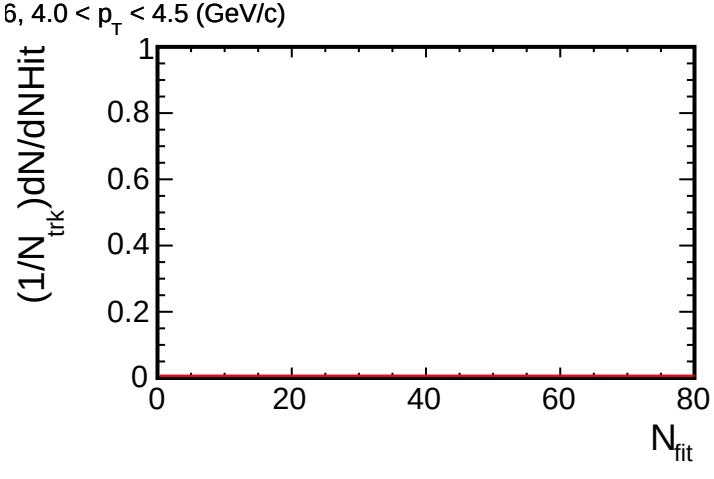
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

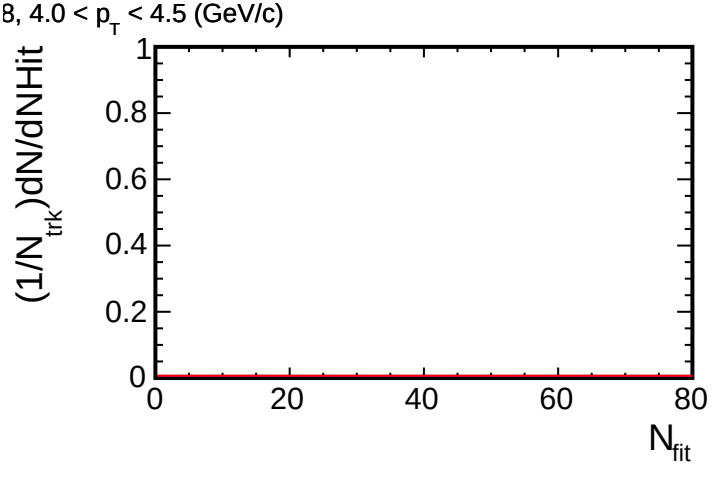
pi-
(PRIMARY, |n σ$_{pi-}$|<2 TPC)

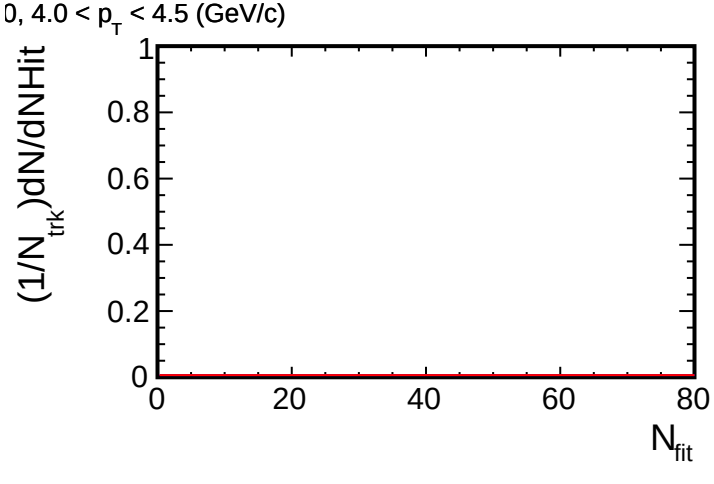
NHit distribution for (p_T, η) slices







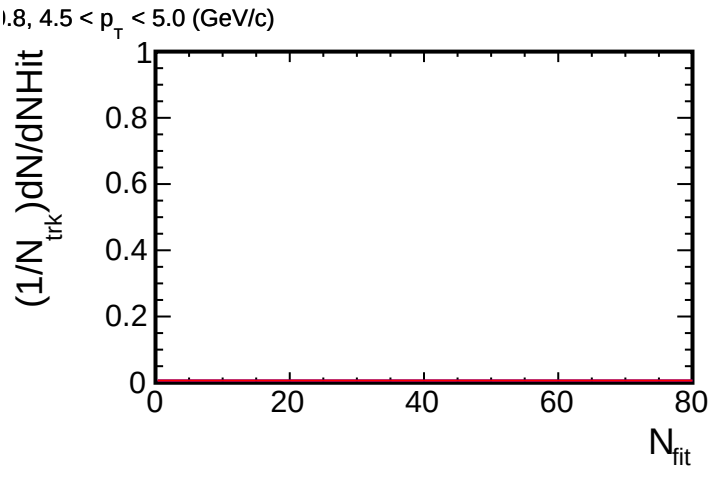


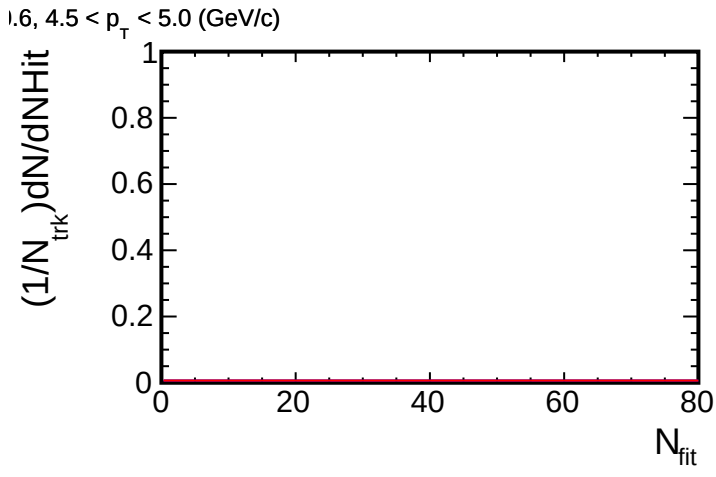


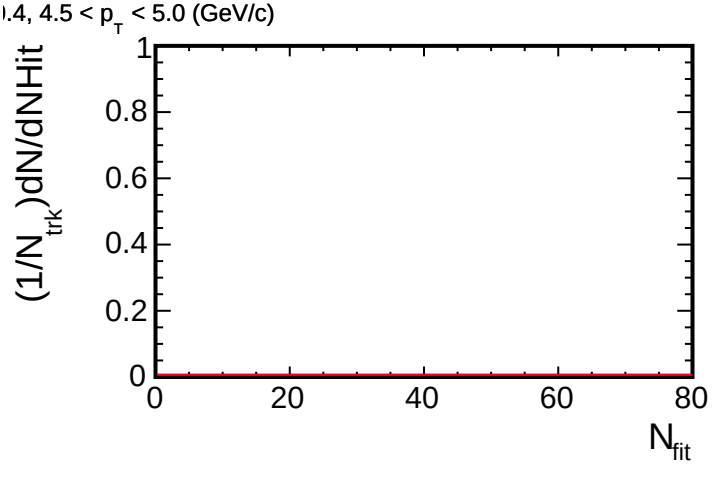
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

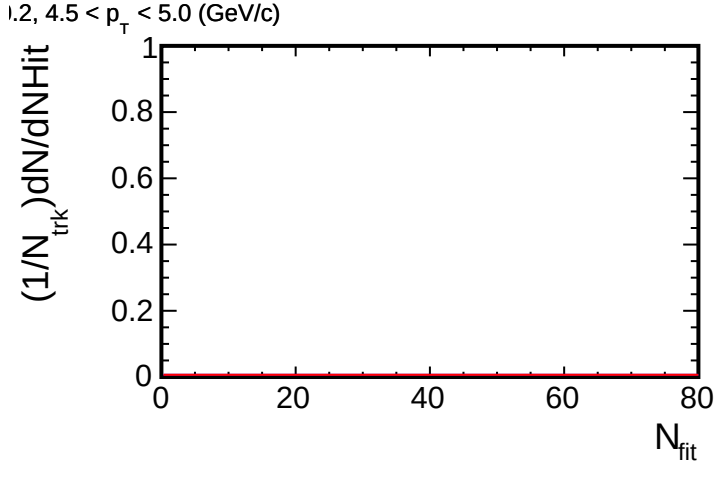
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

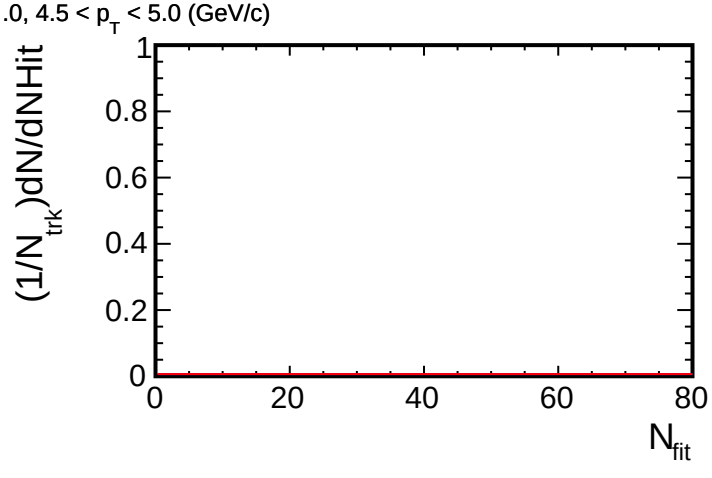
NHit distribution for (p_T, η) slices









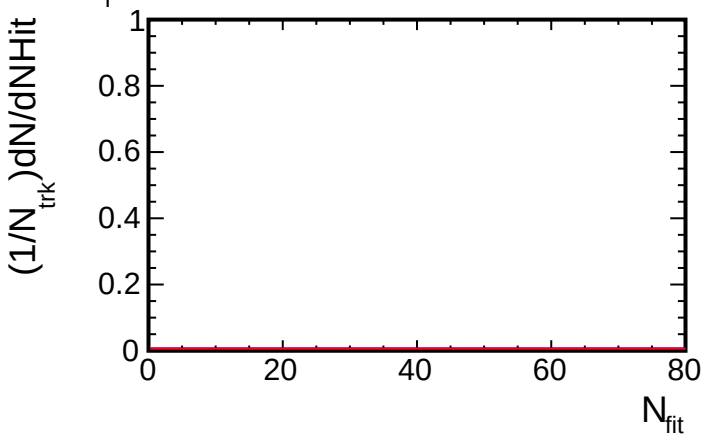


Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

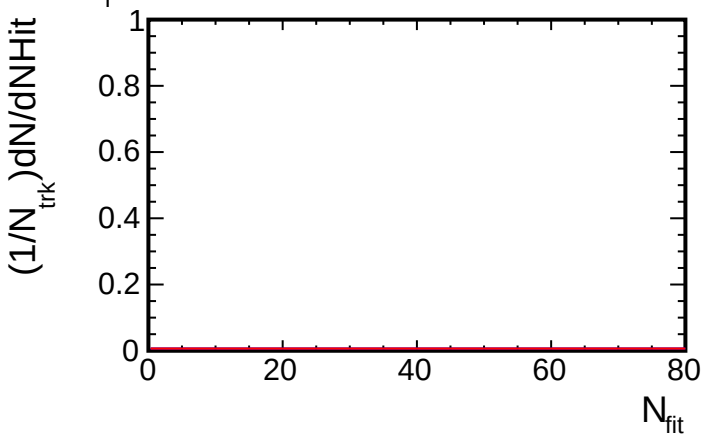
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

NHit distribution for (p_T, η) slices

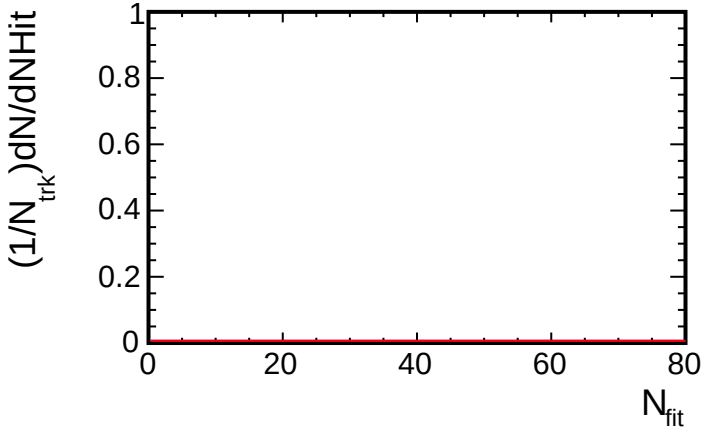
2, 4.5 < p_T < 5.0 (GeV/c)



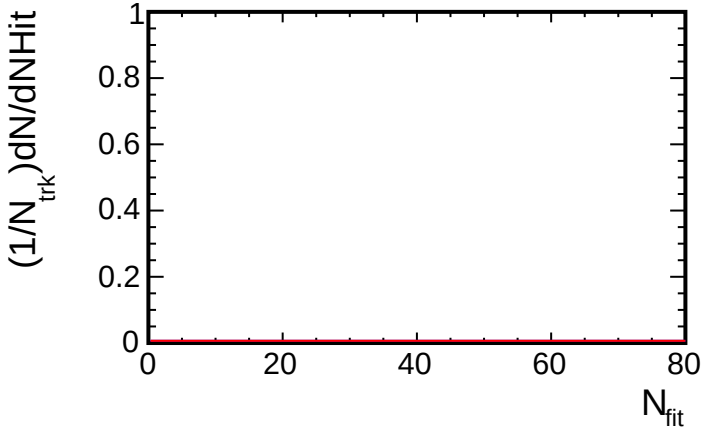
4, 4.5 < p_T < 5.0 (GeV/c)



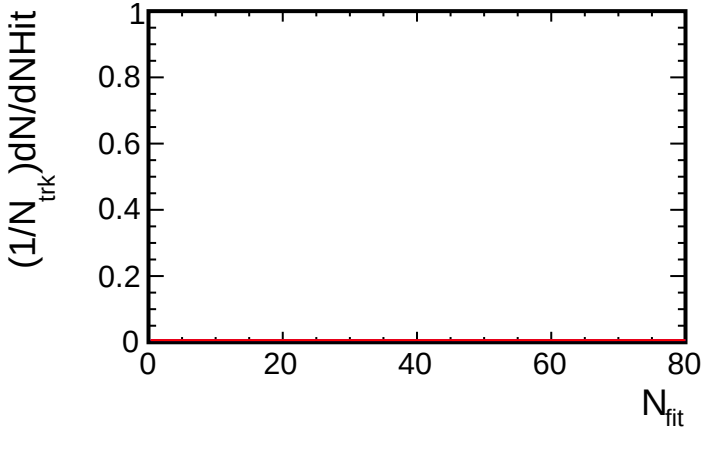
6, 4.5 < p_T < 5.0 (GeV/c)



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



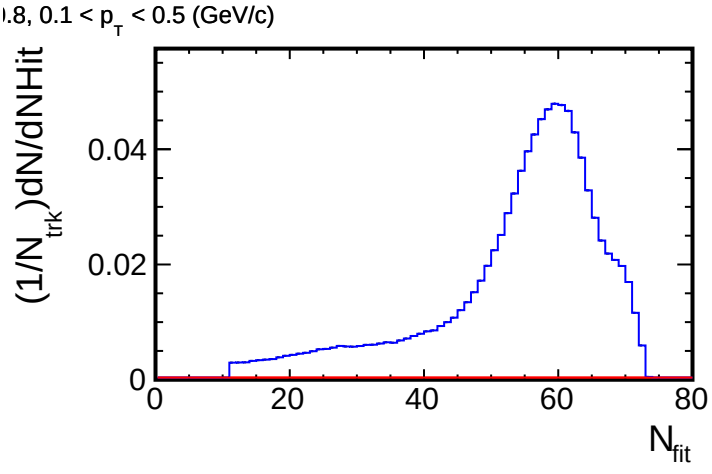
0, 4.5 < p_T < 5.0 (GeV/c)

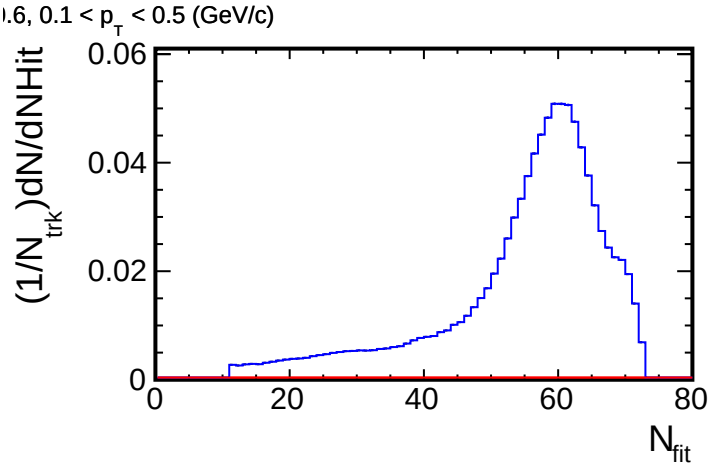


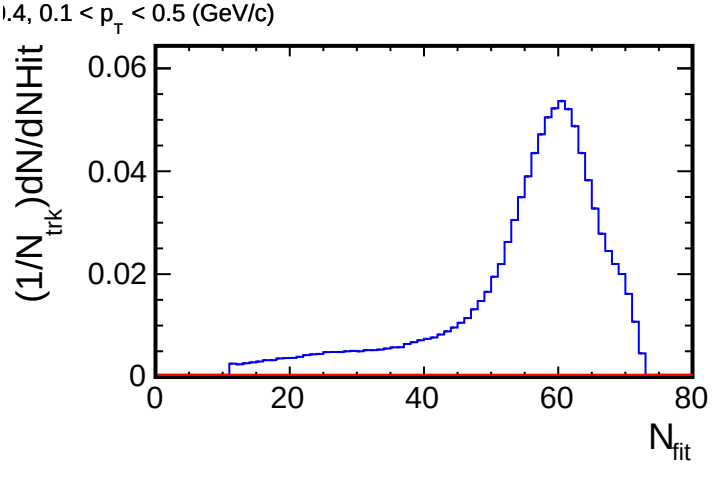
Daughter pi- (from H4Lambda)
(CONTAM, geantid=9)

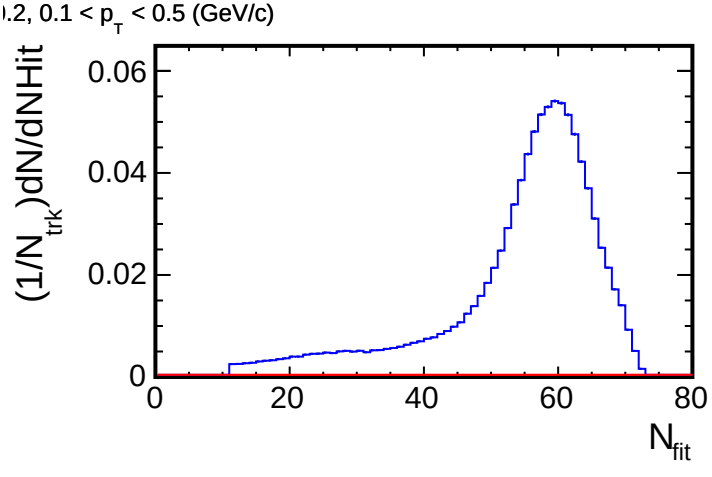
pi-
(PRIMARY, |n σ_{pi-}|<2 TPC)

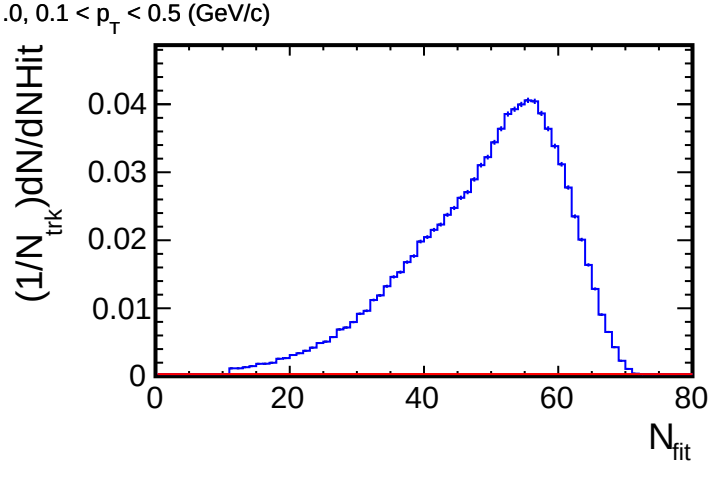
NHit distribution for (p_T, η) slices







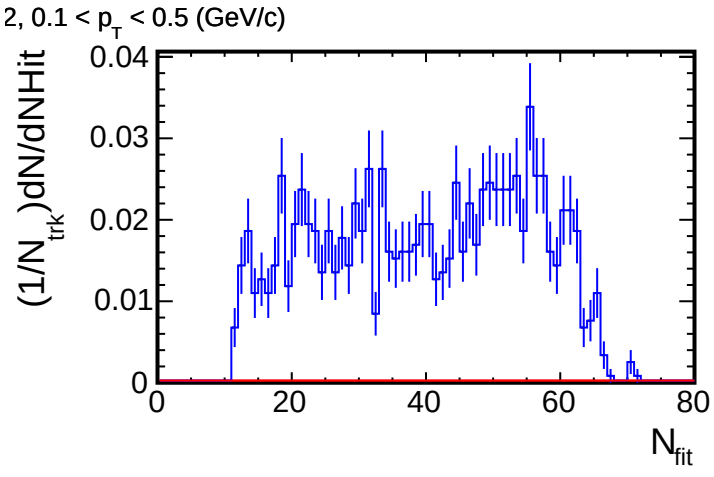


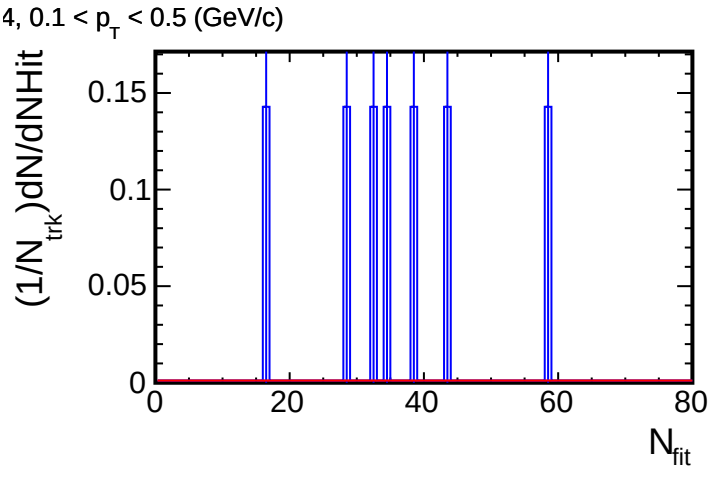


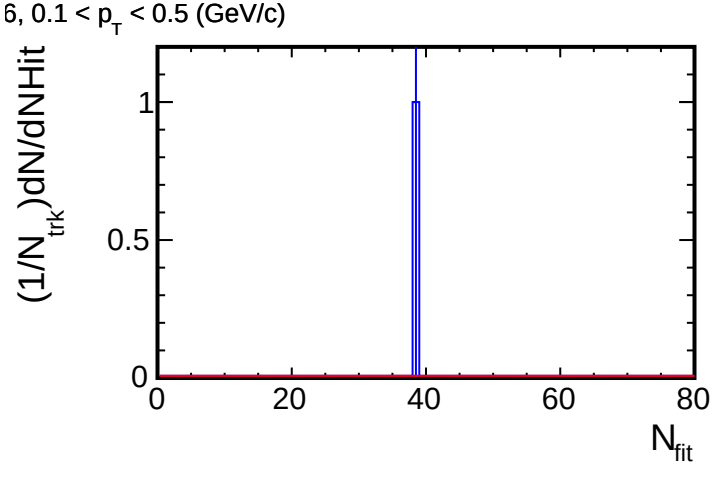
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

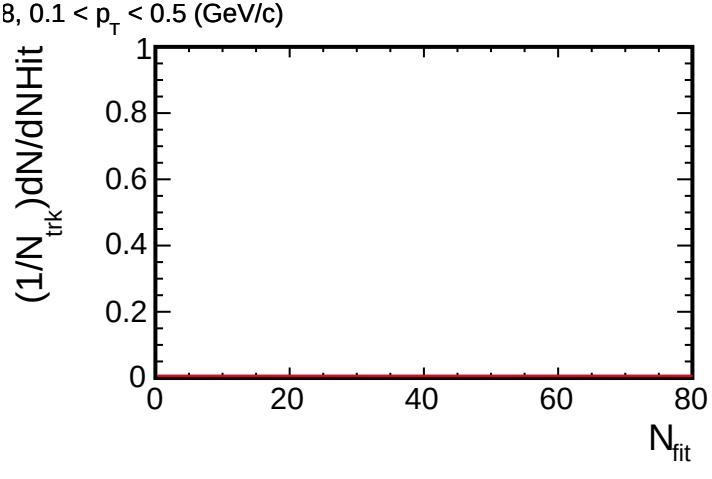
pi+
(PRIMARY, |n σ$_{pi+}$|<2 TPC)

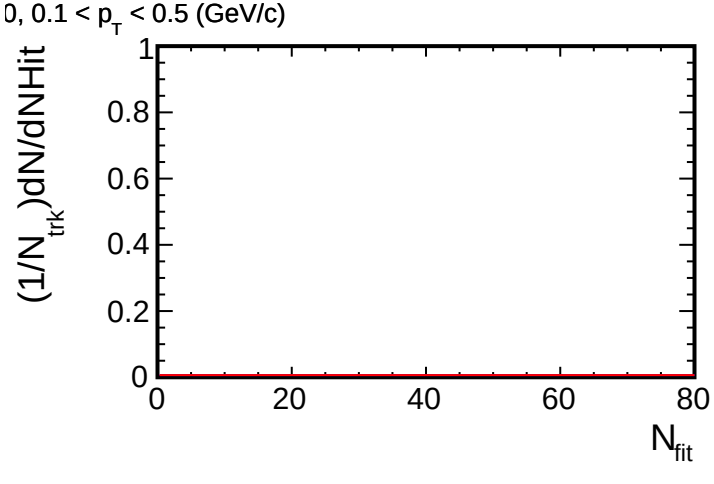
NHit distribution for (p_T, η) slices







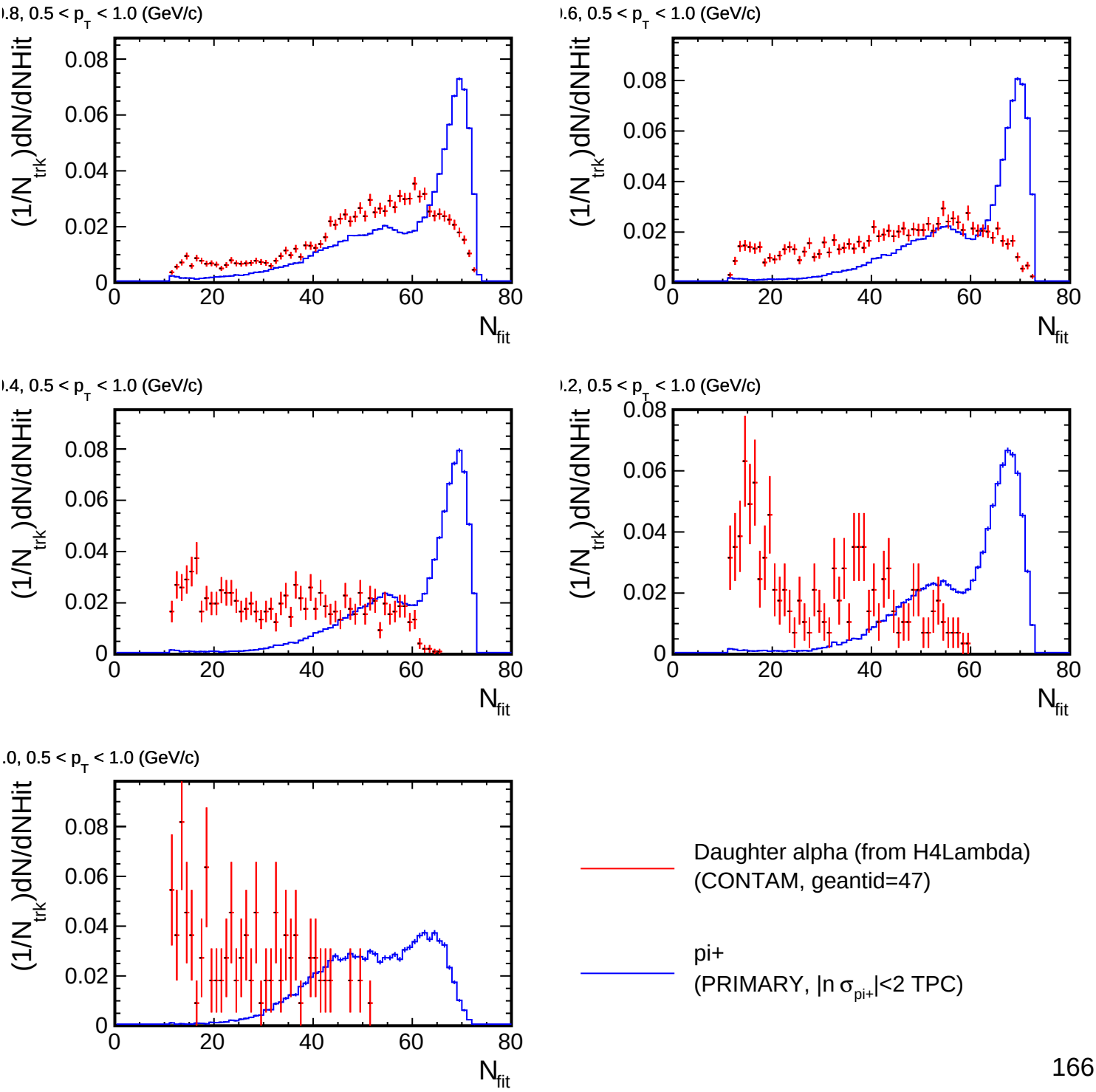




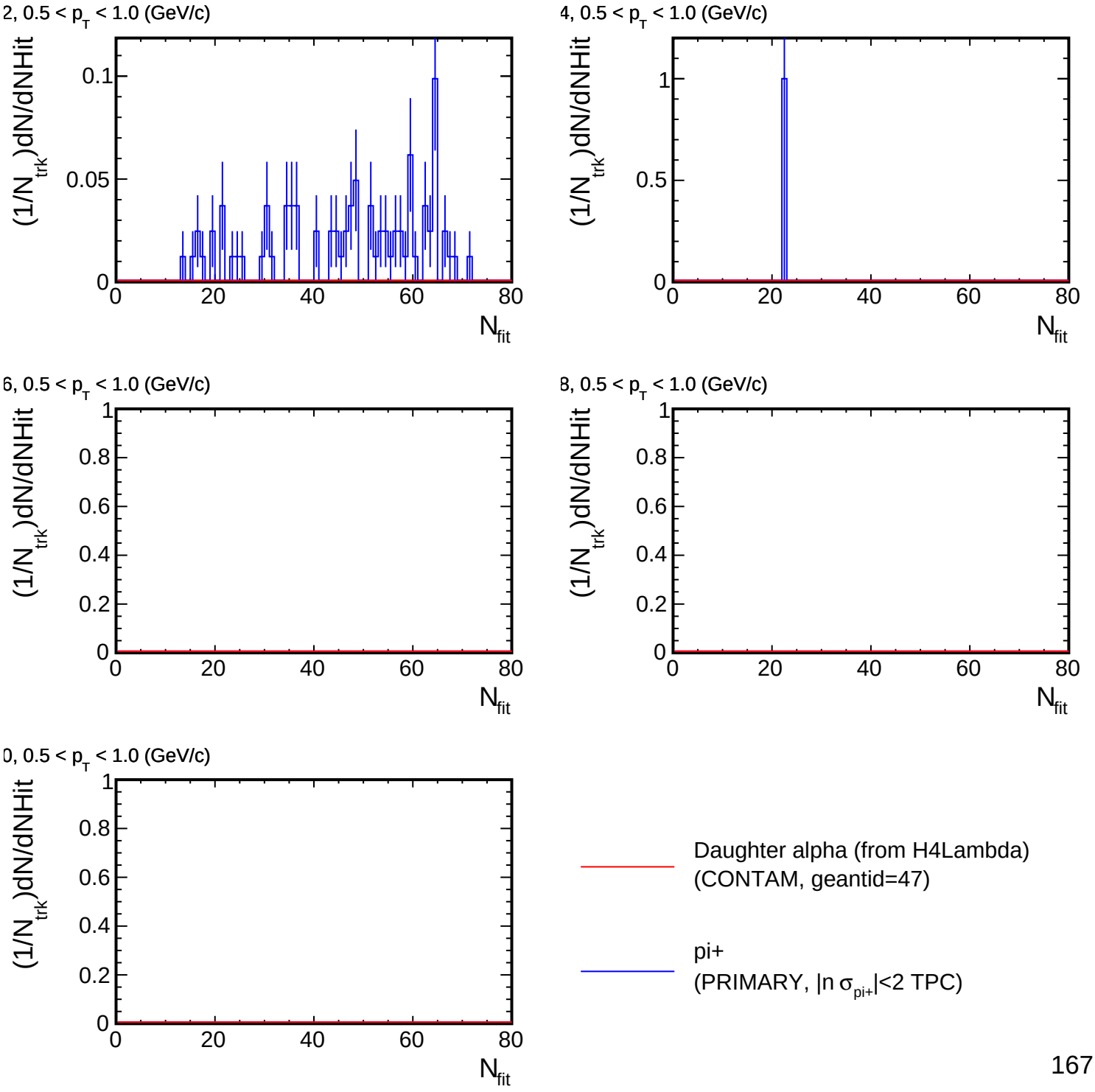
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

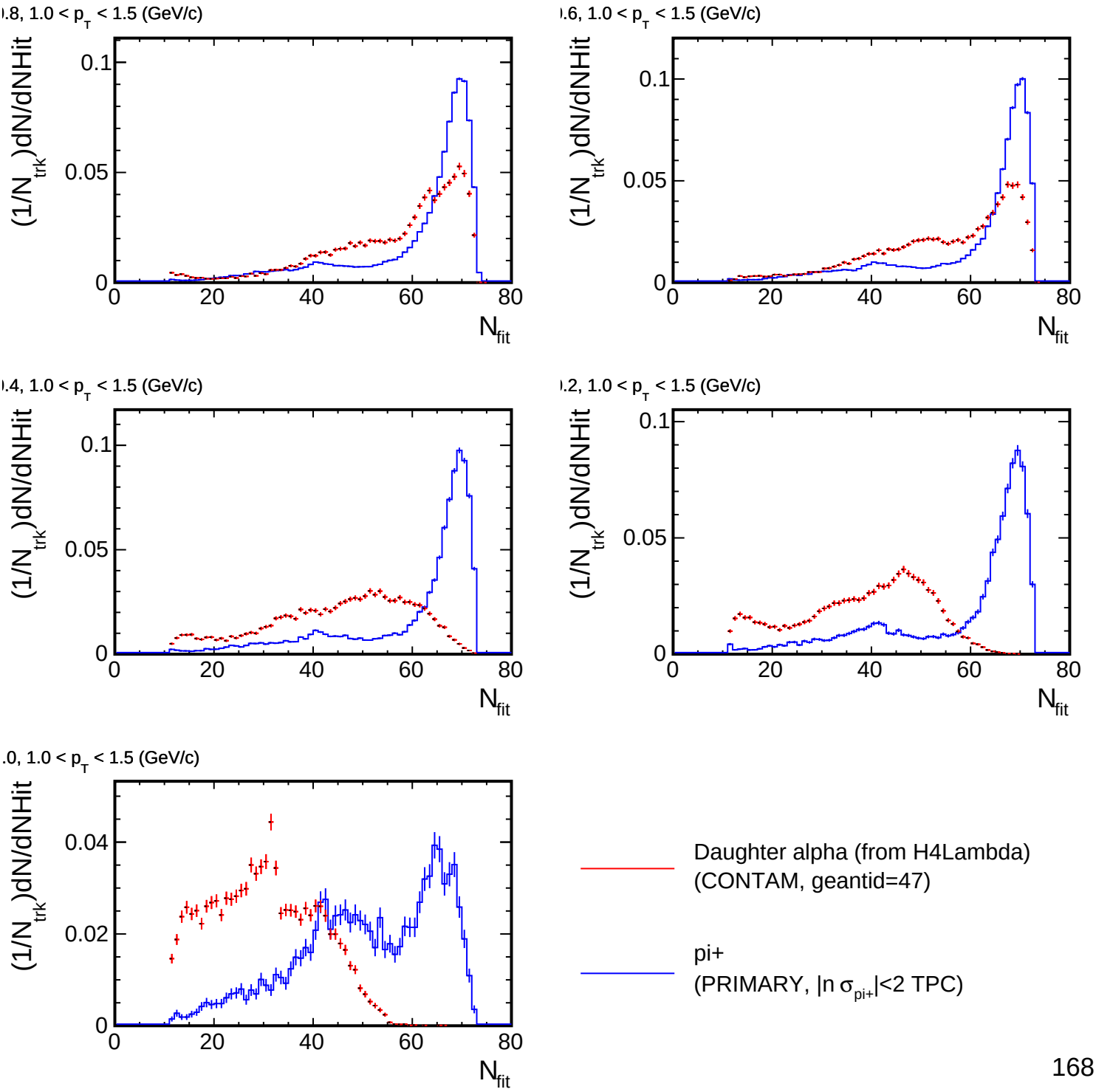
NHit distribution for (p_T, η) slices



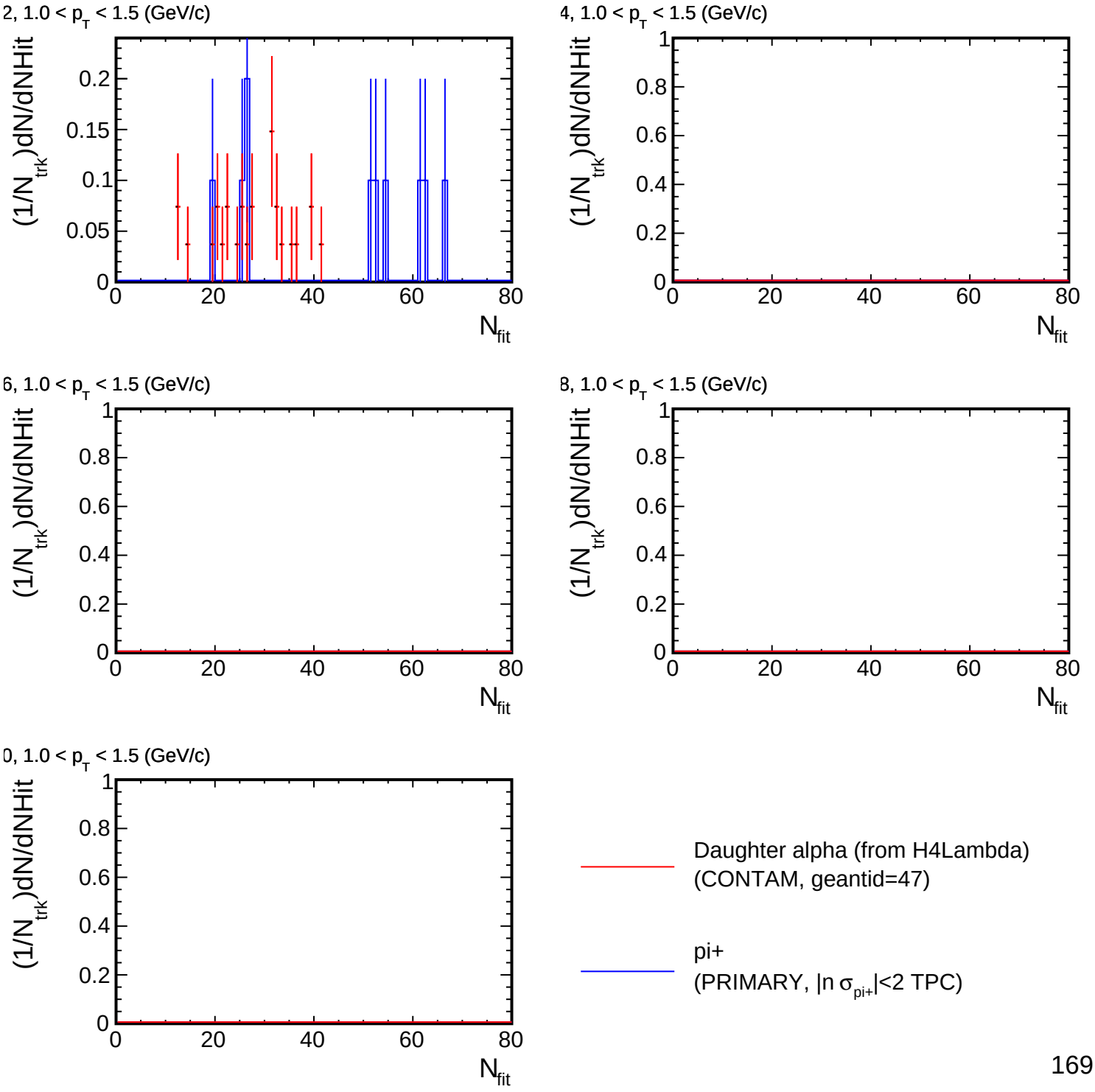
NHit distribution for (p_T, η) slices



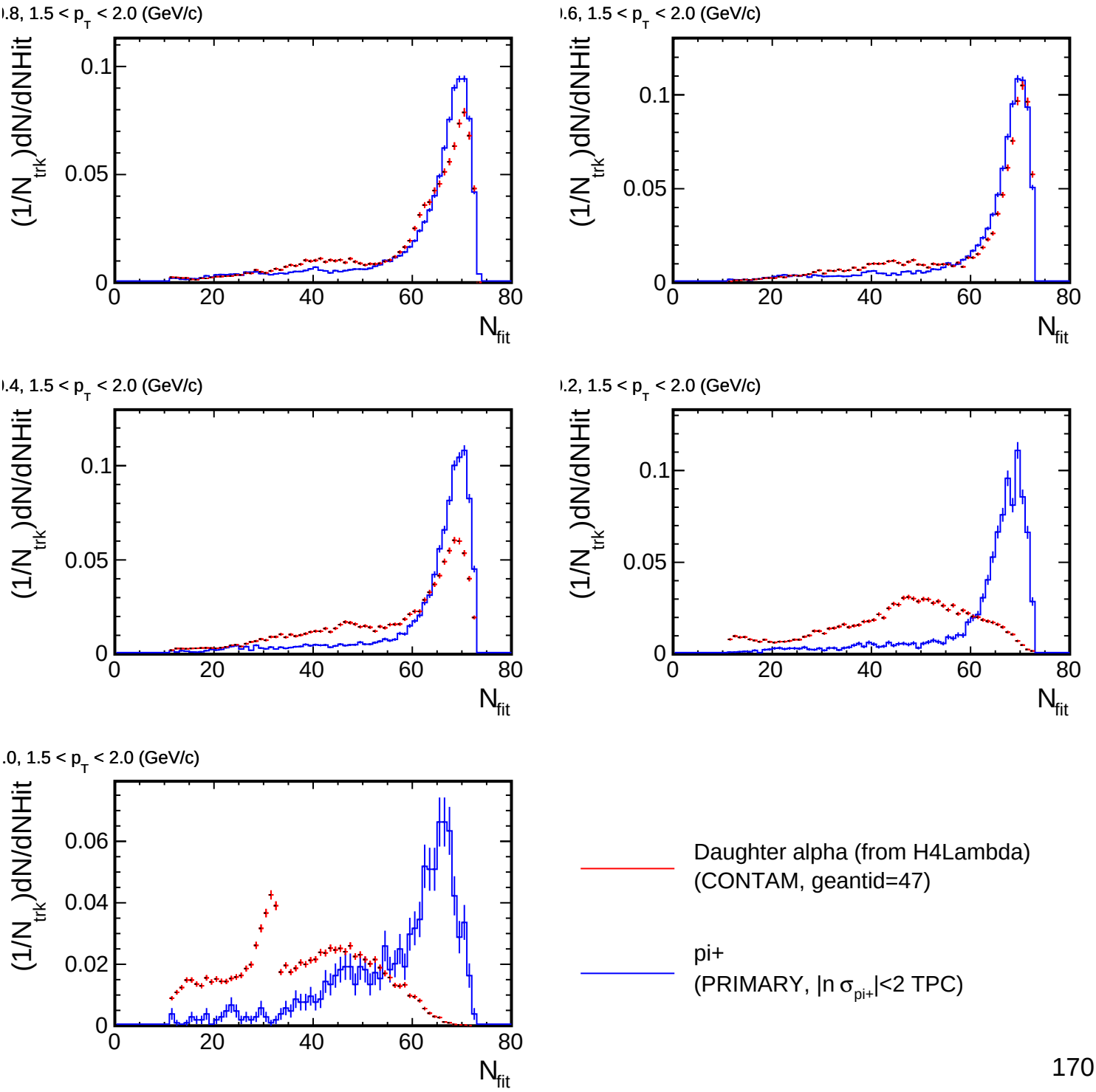
NHit distribution for (p_T, η) slices



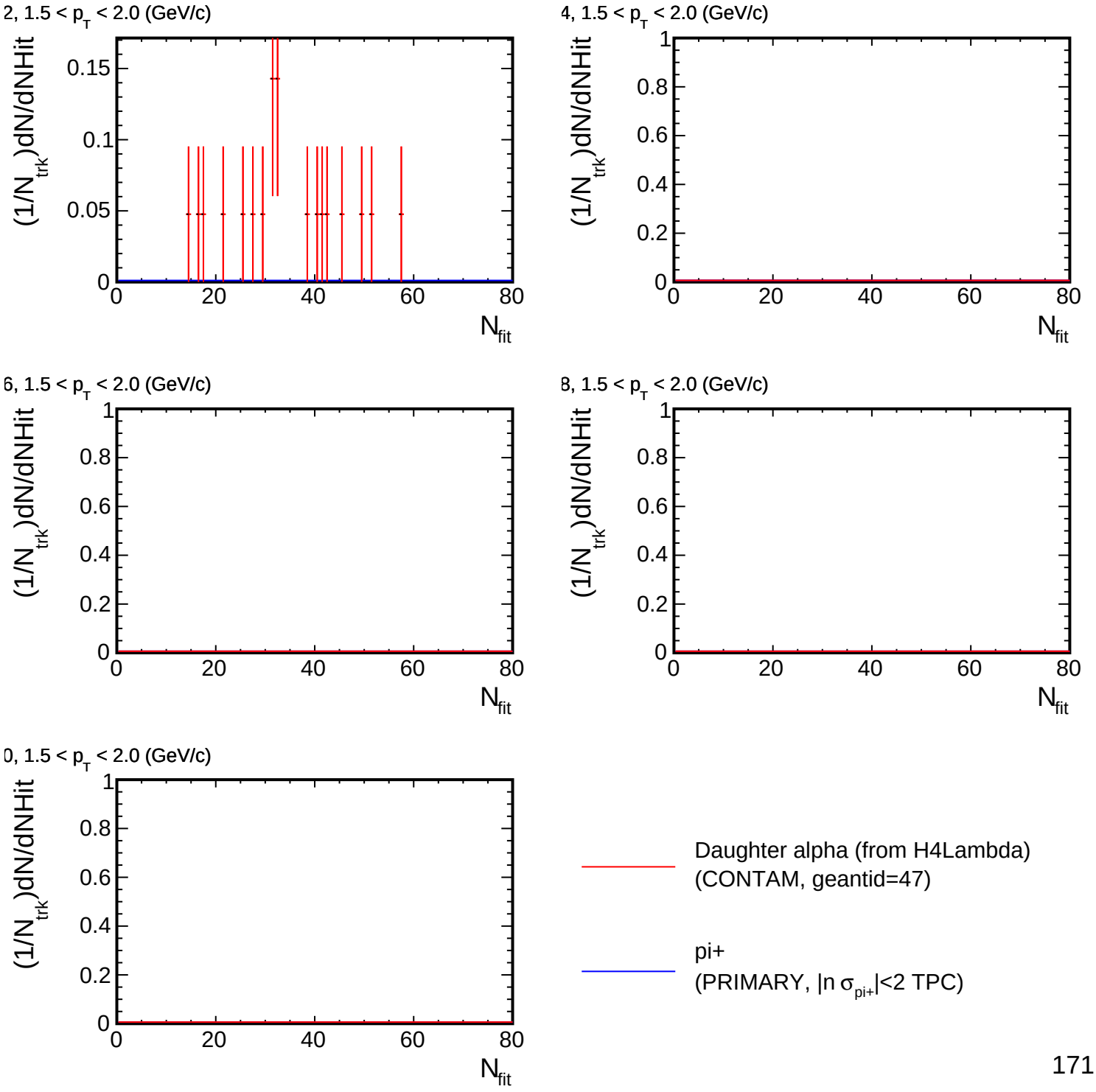
NHit distribution for (p_T, η) slices



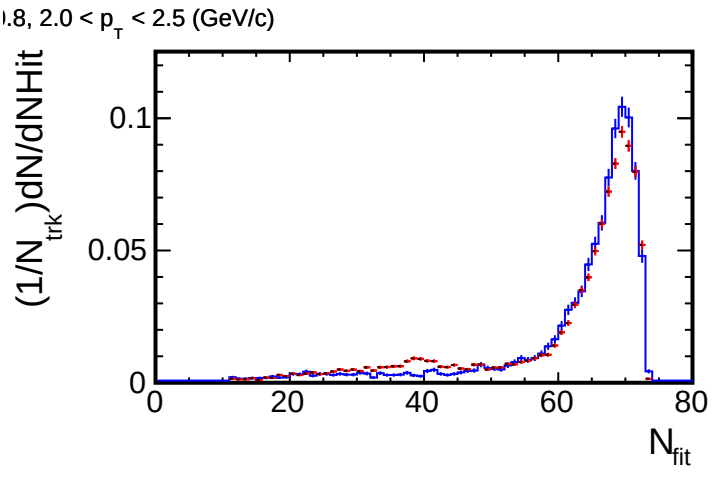
NHit distribution for (p_T, η) slices

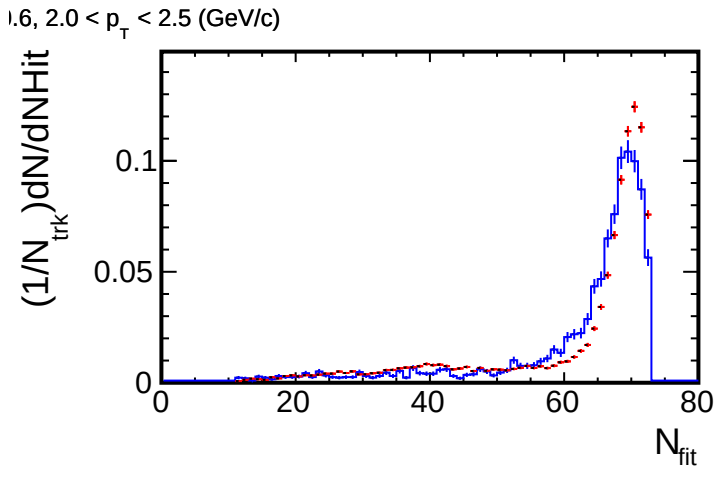


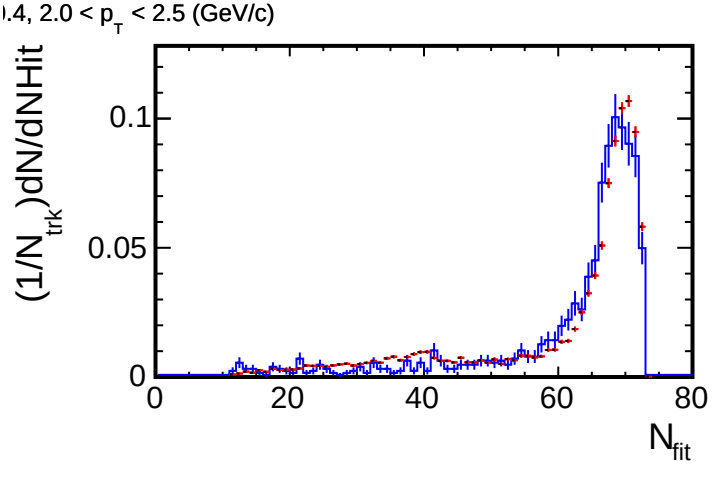
NHit distribution for (p_T, η) slices

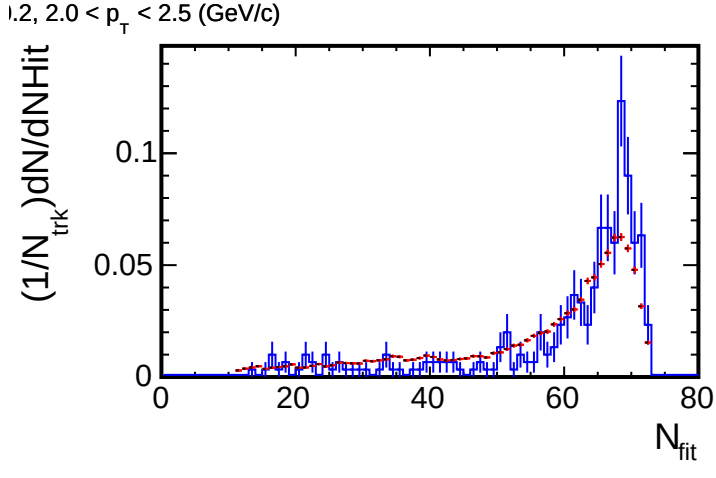


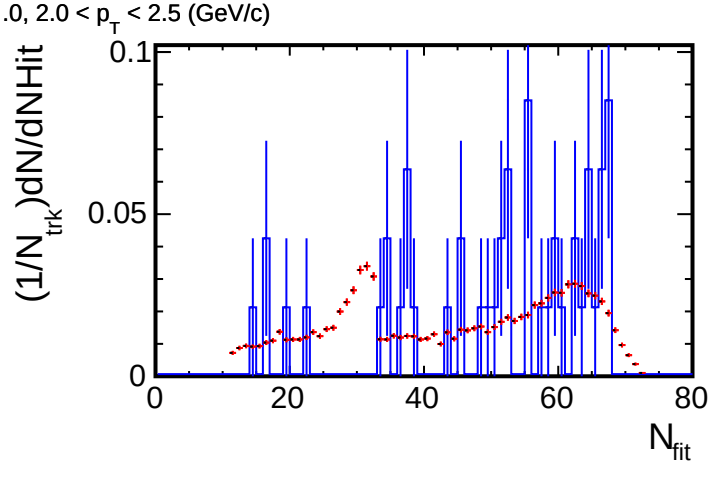
NHit distribution for (p_T, η) slices







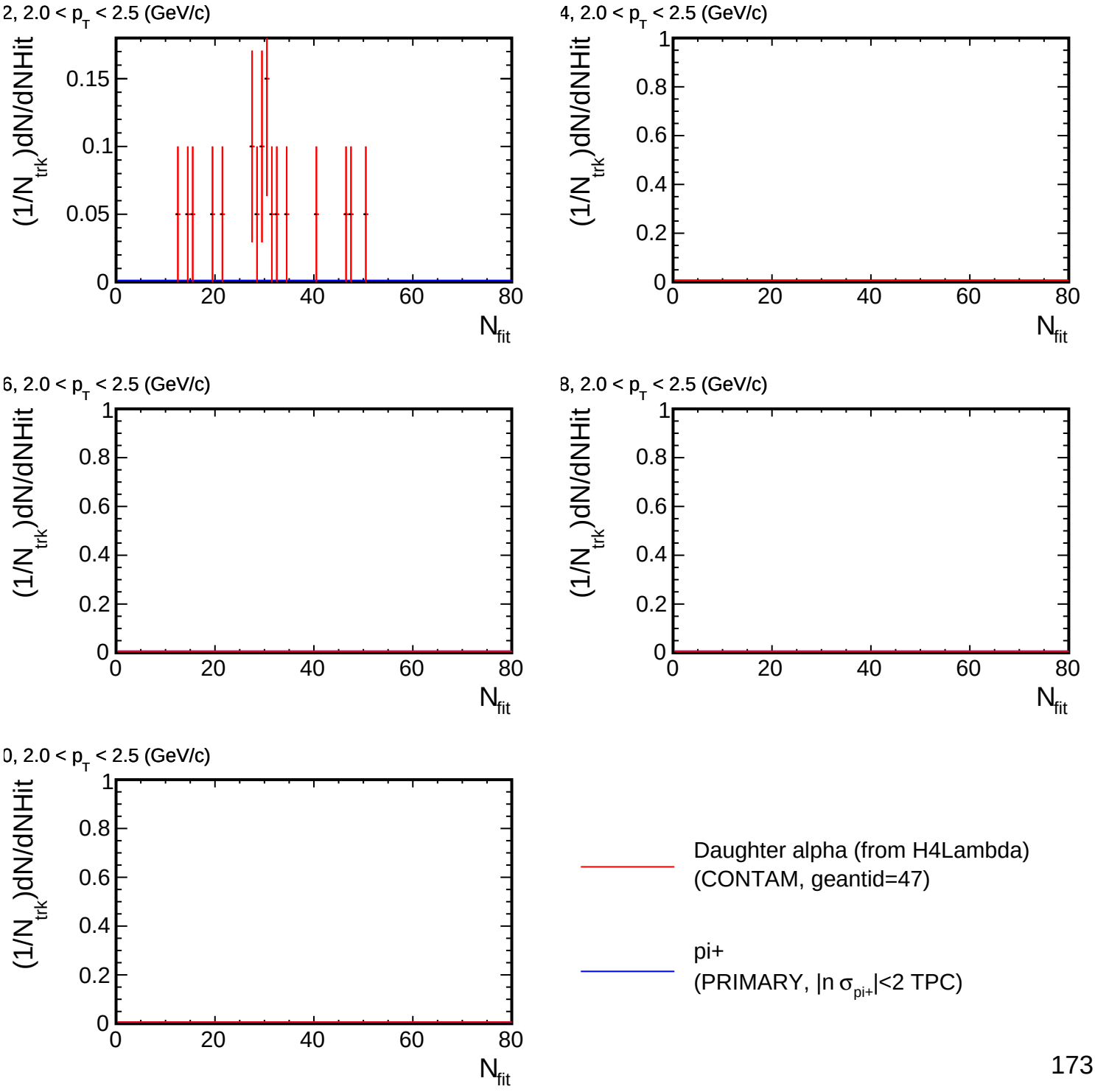




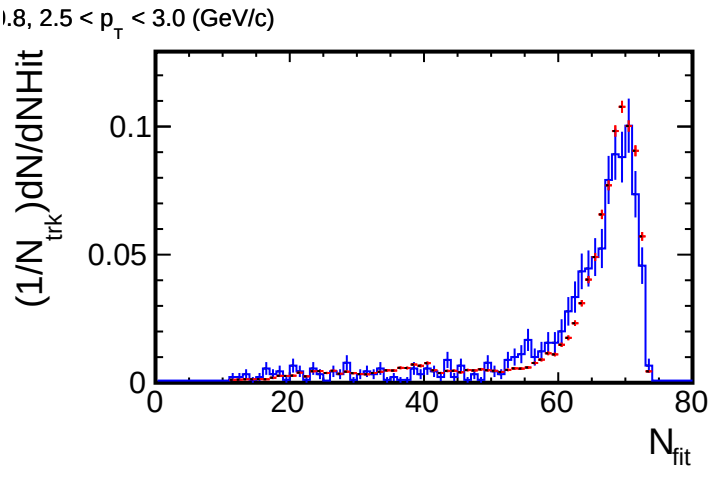
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

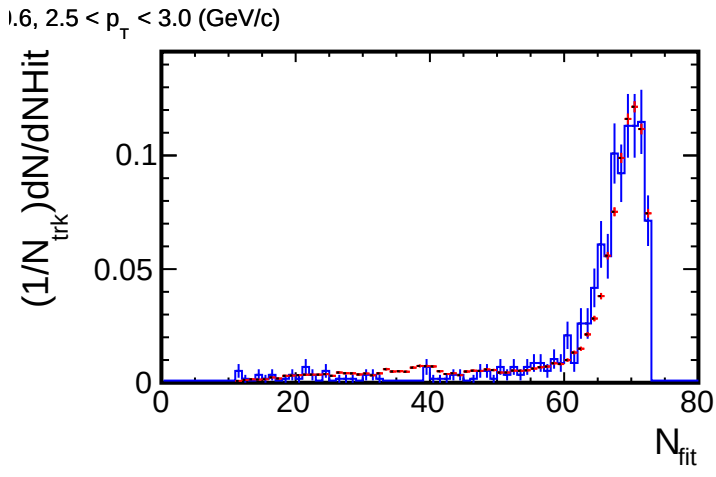
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

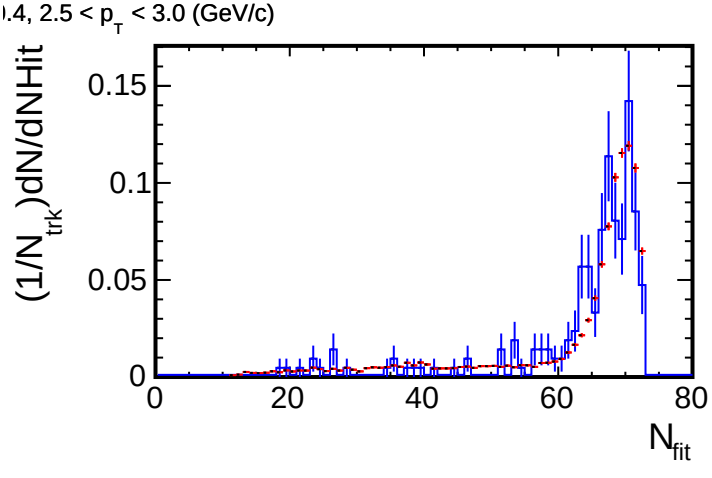
NHit distribution for (p_T, η) slices

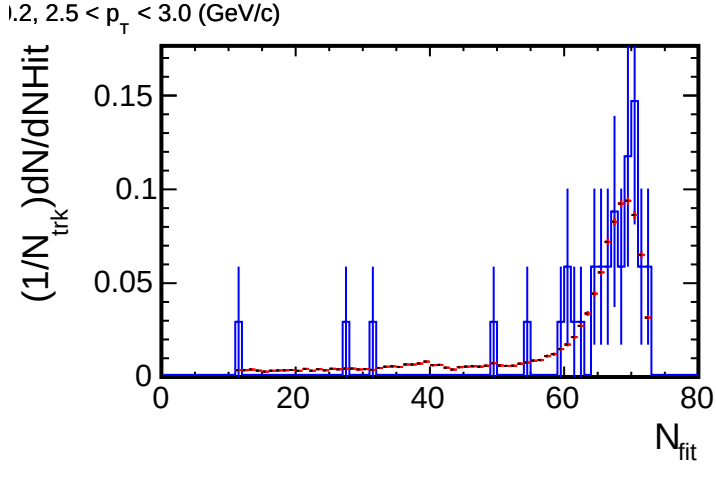


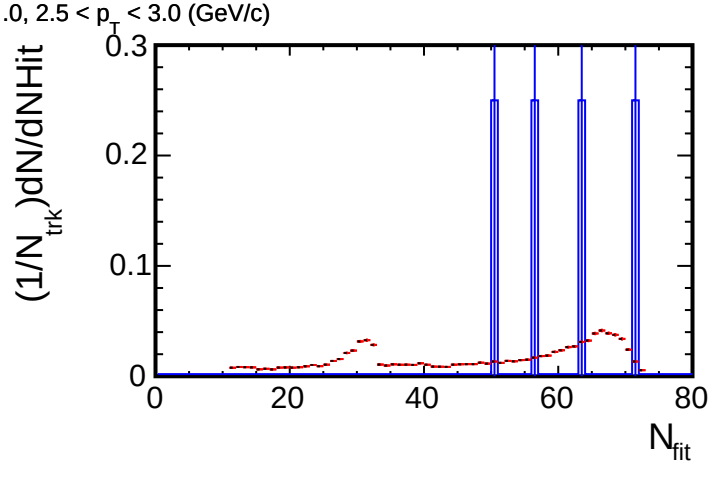
NHit distribution for (p_T, η) slices







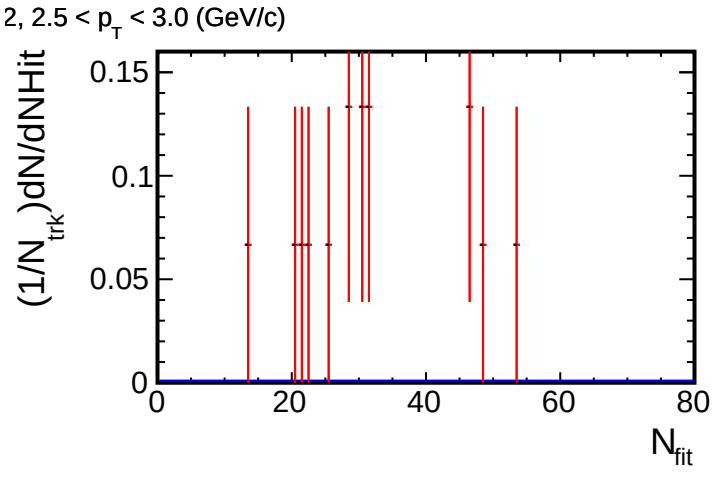


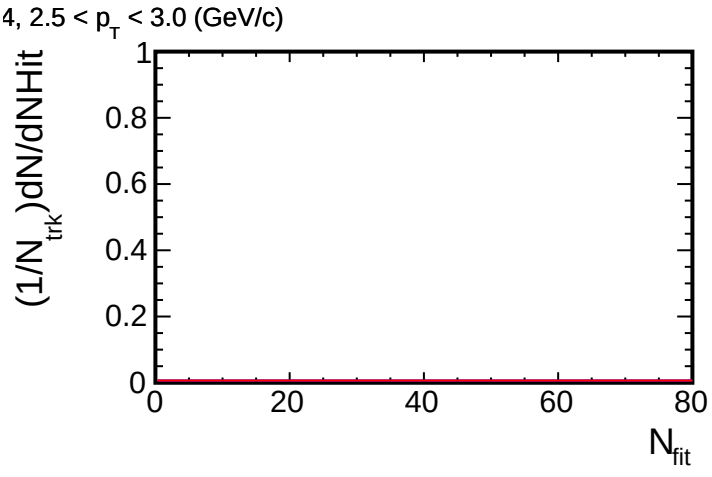


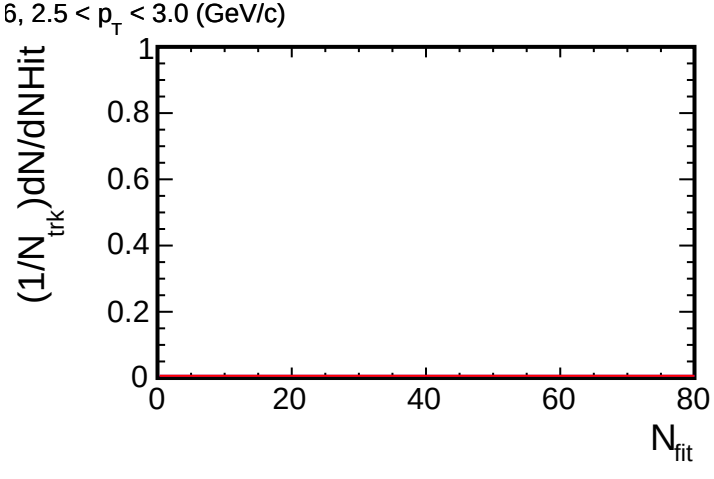
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

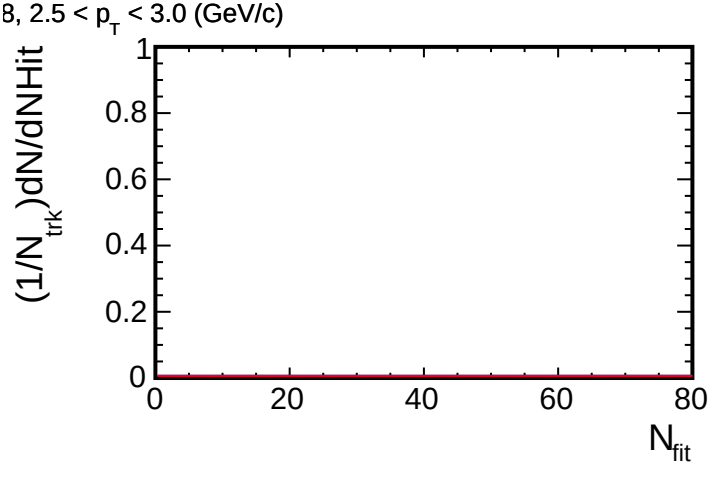
pi+
(PRIMARY, |n σ$_{pi+}$|<2 TPC)

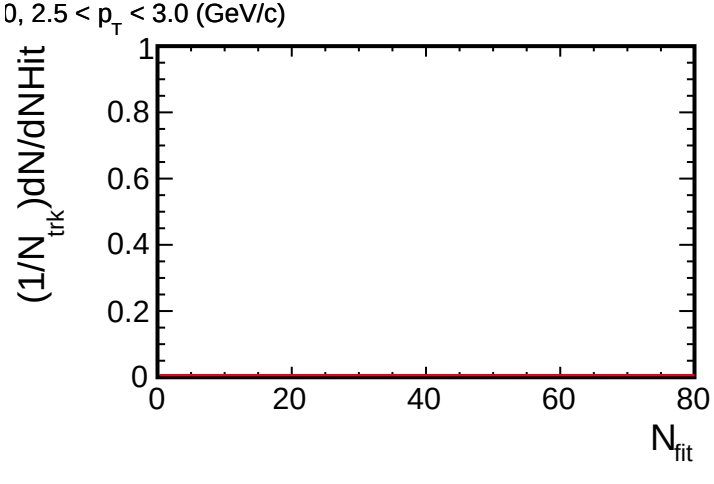
NHit distribution for (p_T, η) slices







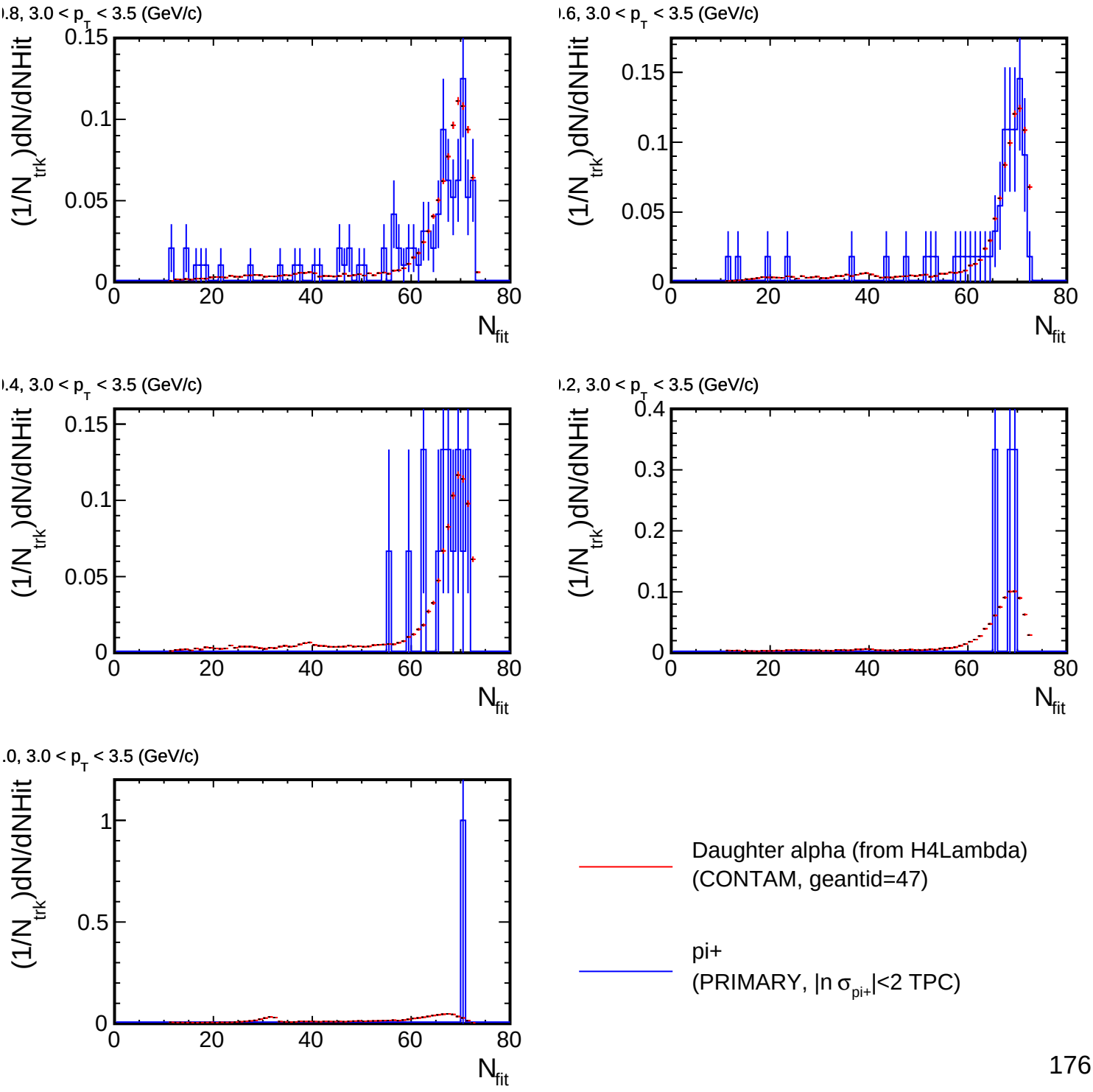




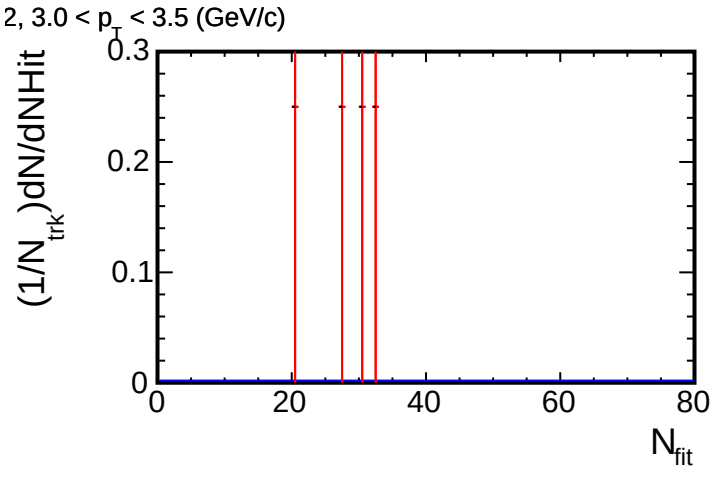
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

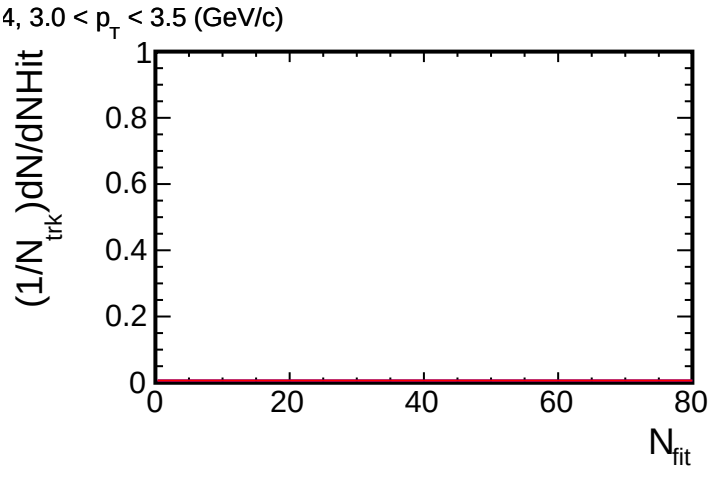
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

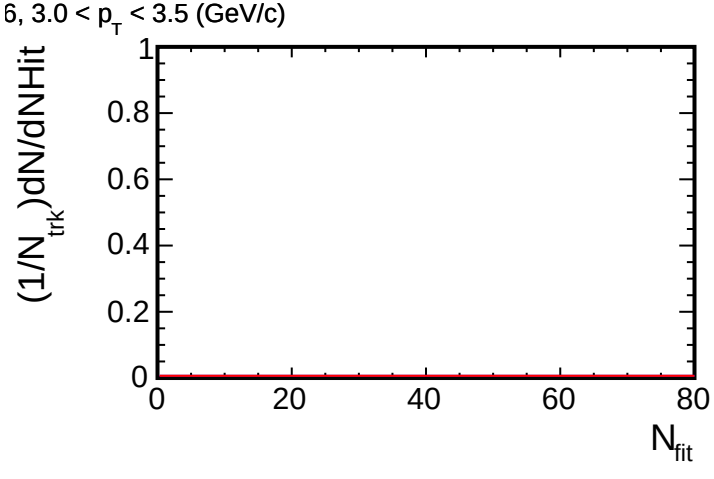
NHit distribution for (p_T, η) slices

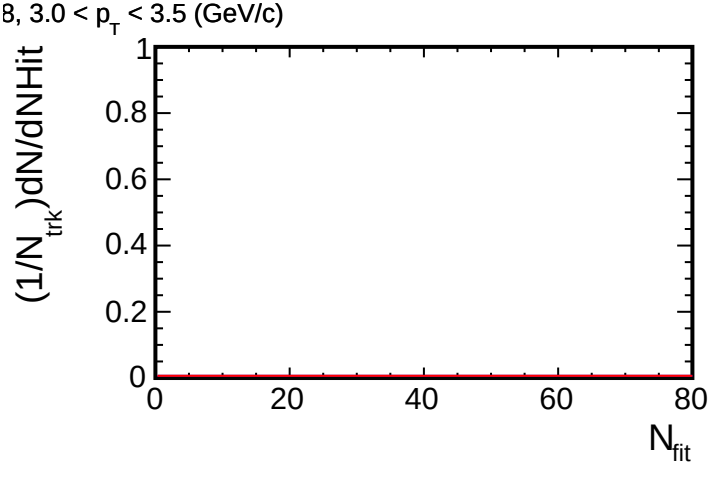


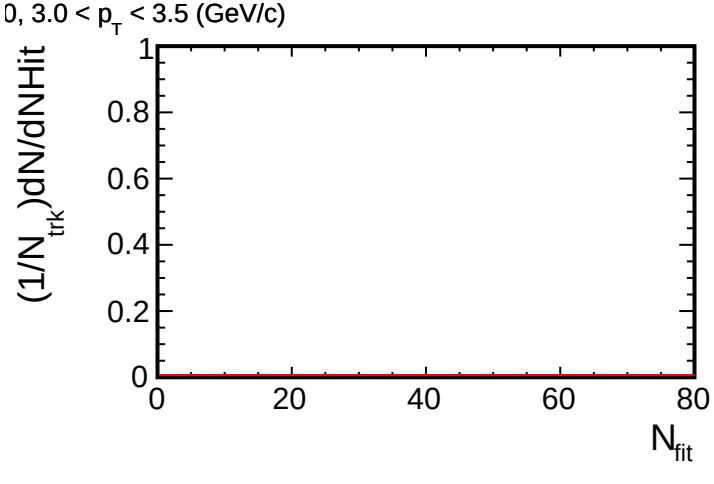
NHit distribution for (p_T, η) slices







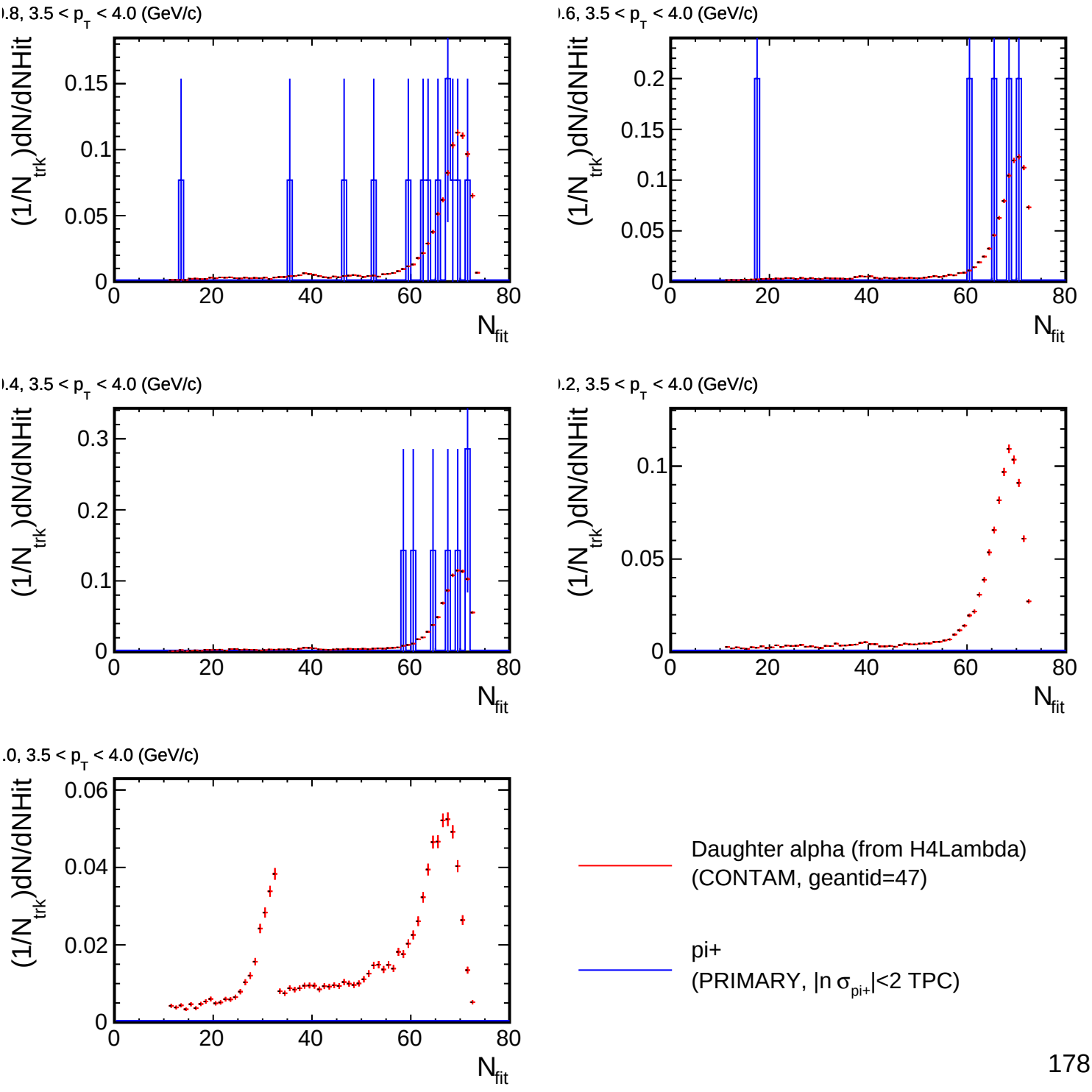




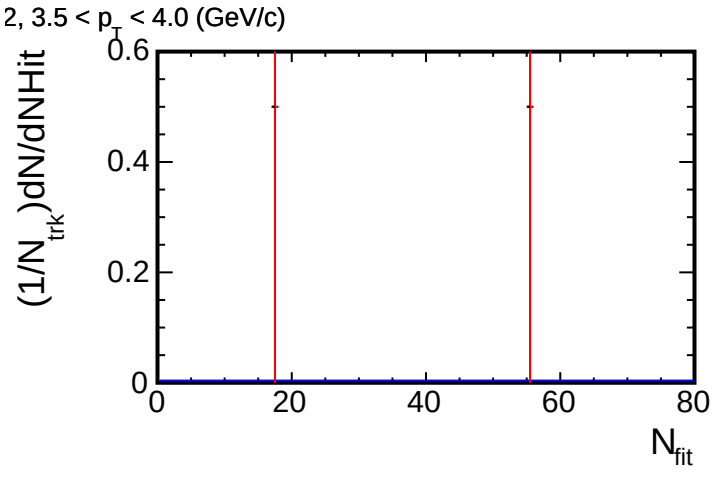
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

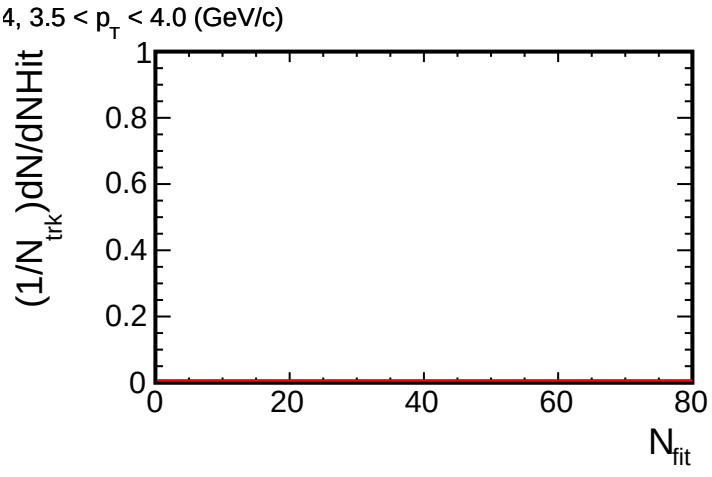
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

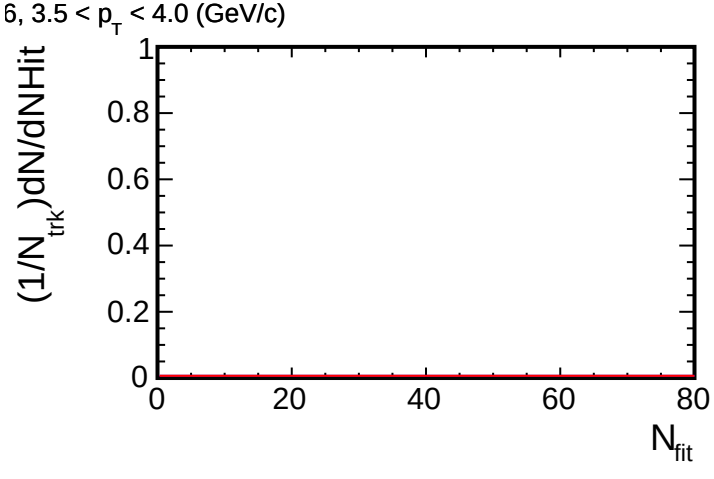
NHit distribution for (p_T, η) slices

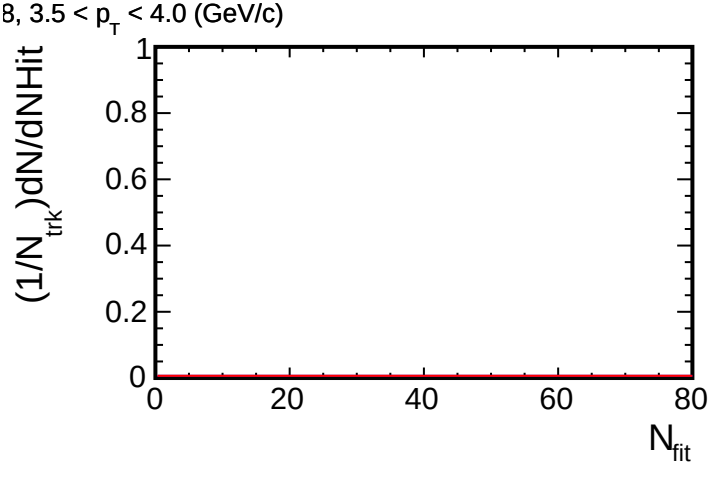


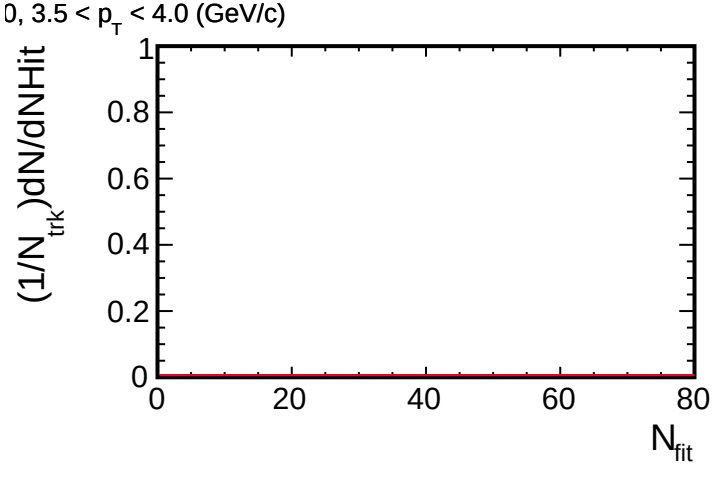
NHit distribution for (p_T, η) slices







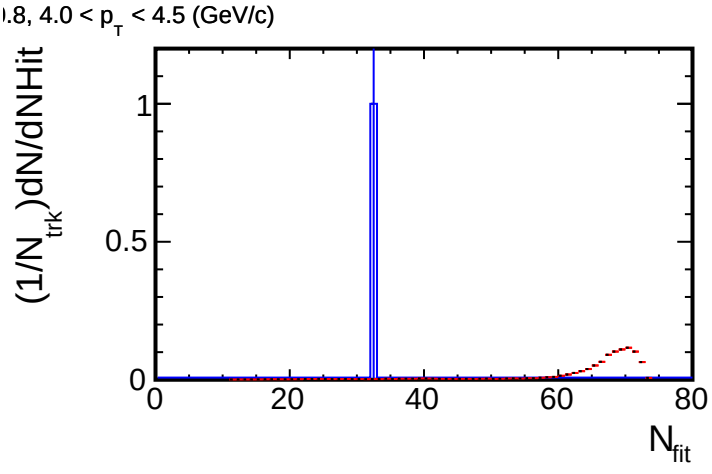


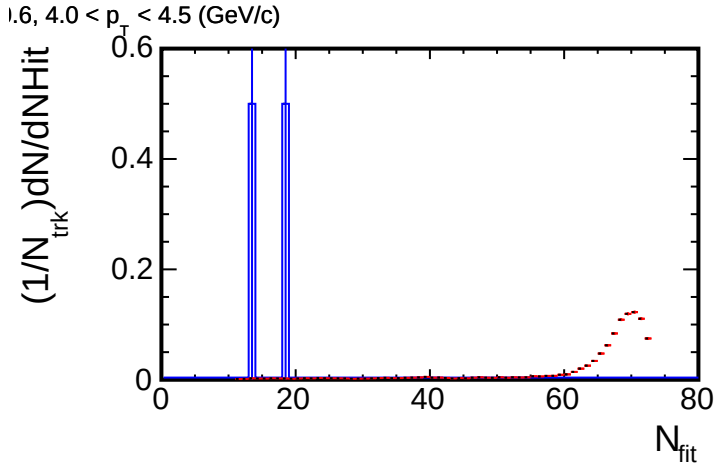


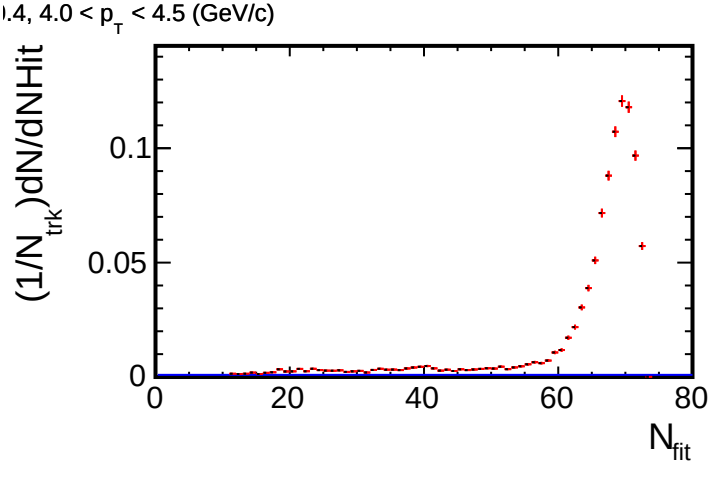
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

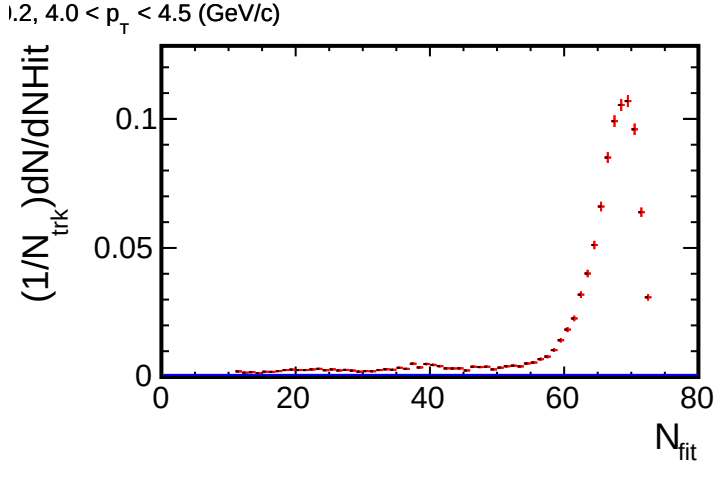
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

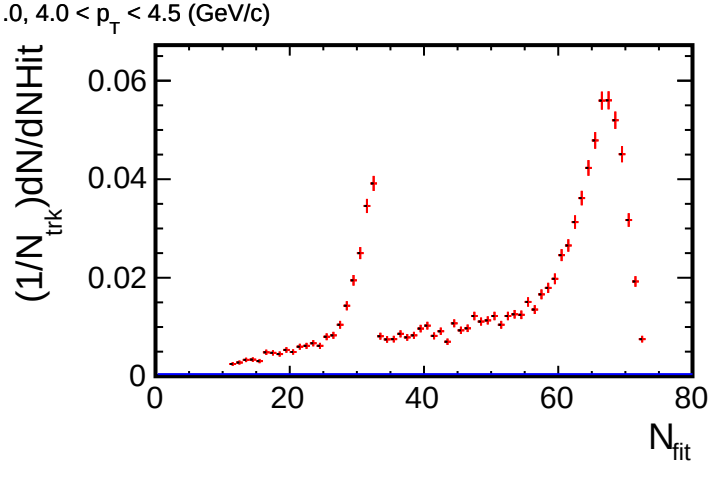
NHit distribution for (p_T, η) slices







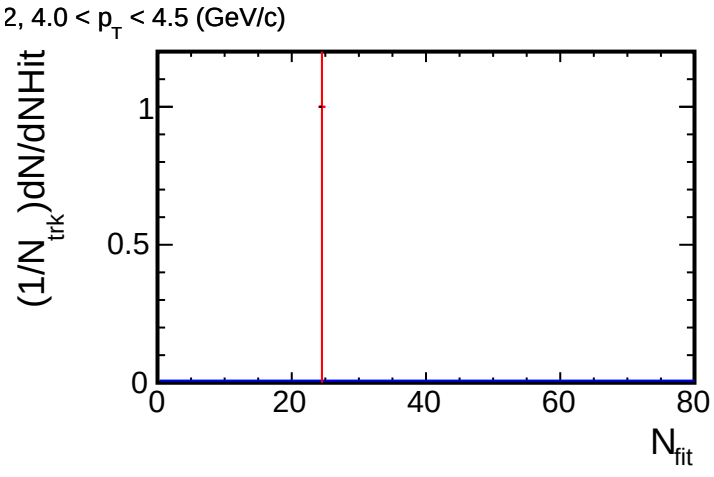


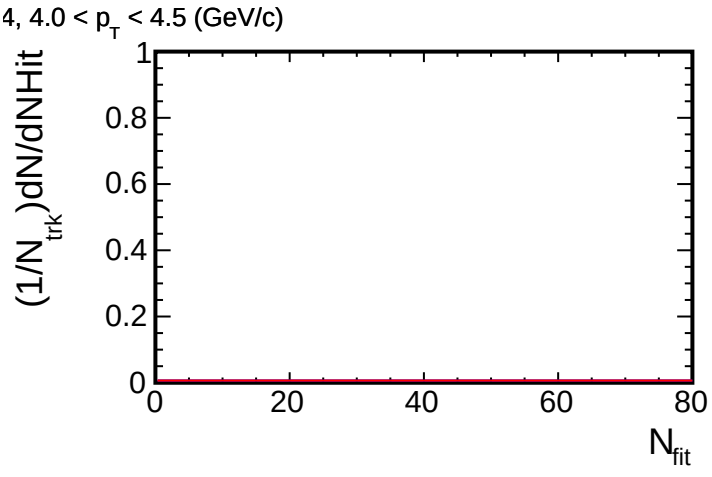


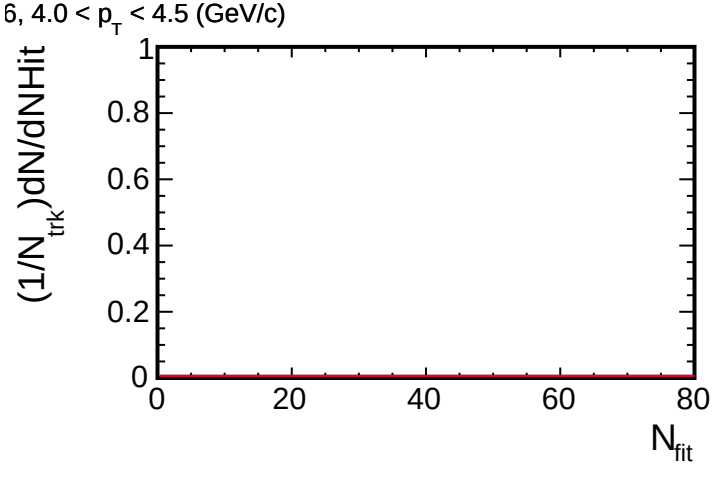
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

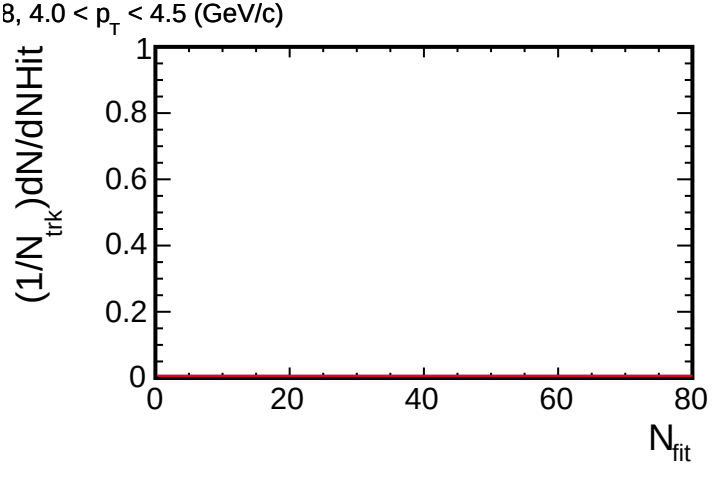
pi+
(PRIMARY, |n σ$_{pi+}$|<2 TPC)

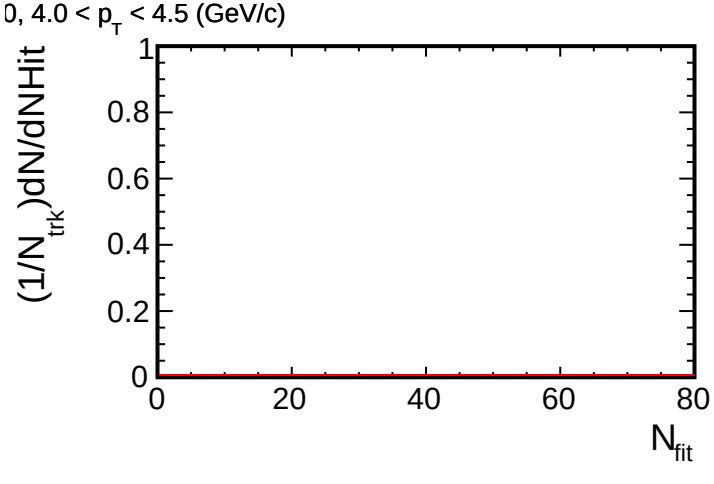
NHit distribution for (p_T, η) slices







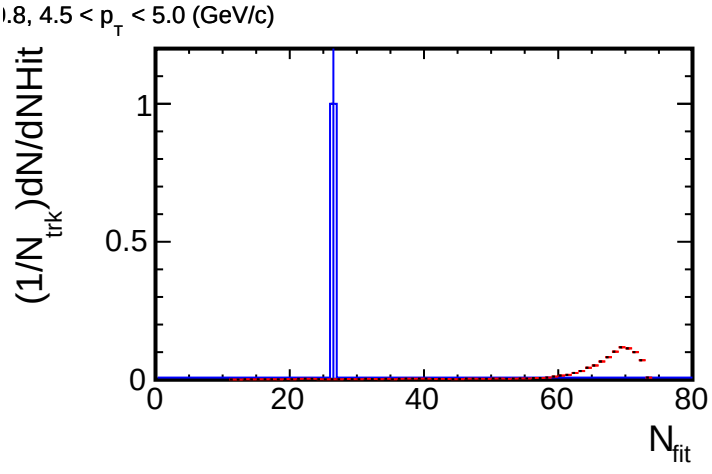


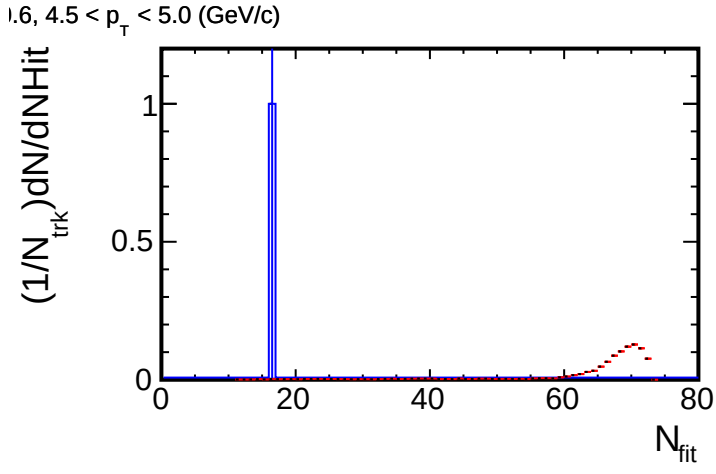


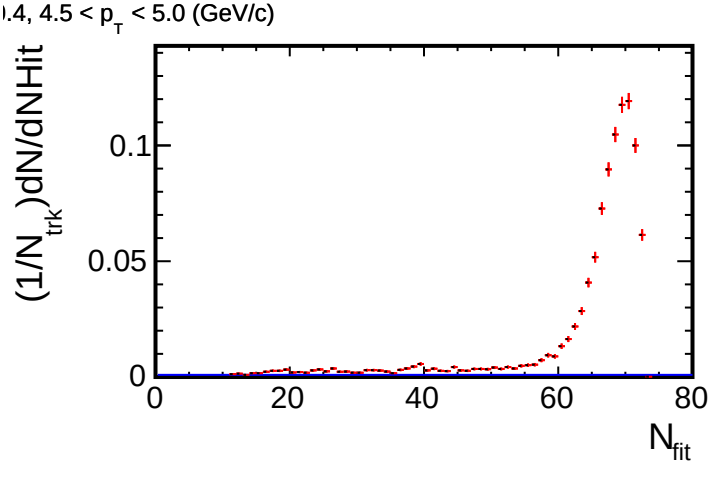
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

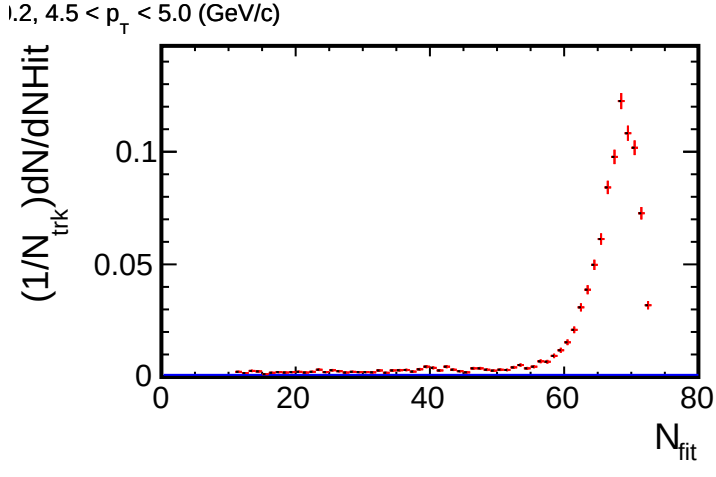
pi+
(PRIMARY, |n σ_{pi+}|<2 TPC)

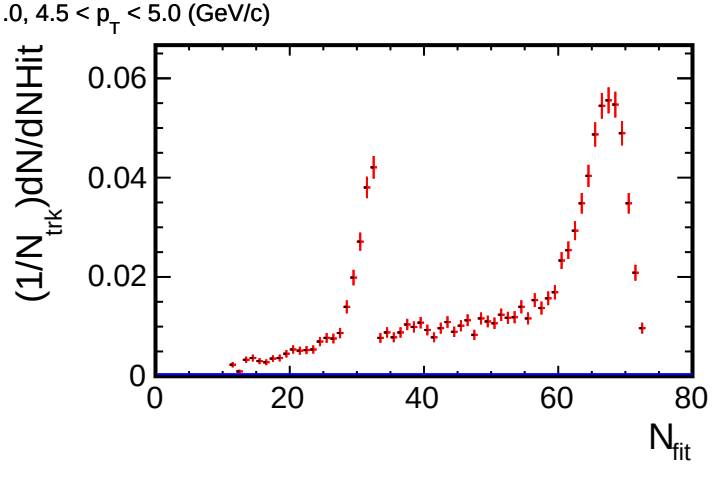
NHit distribution for (p_T, η) slices







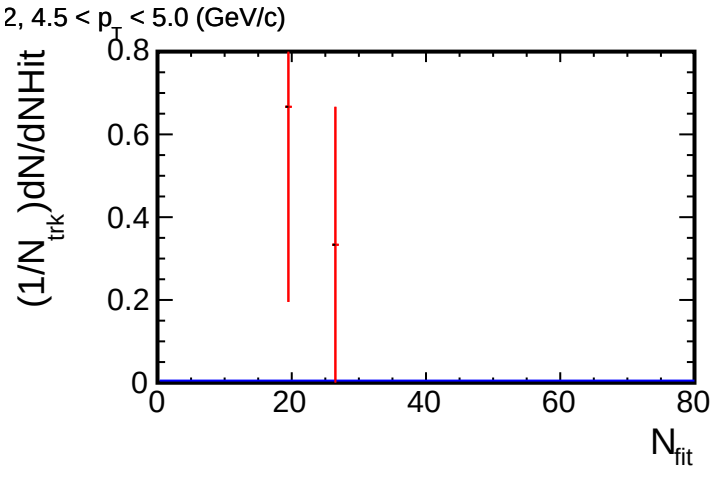


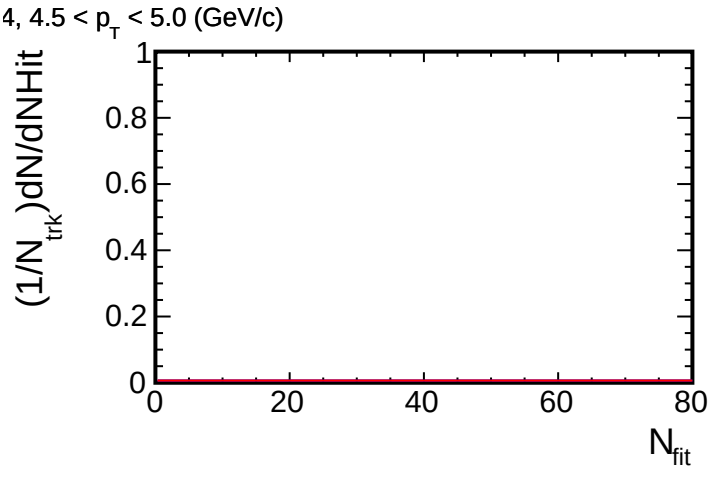


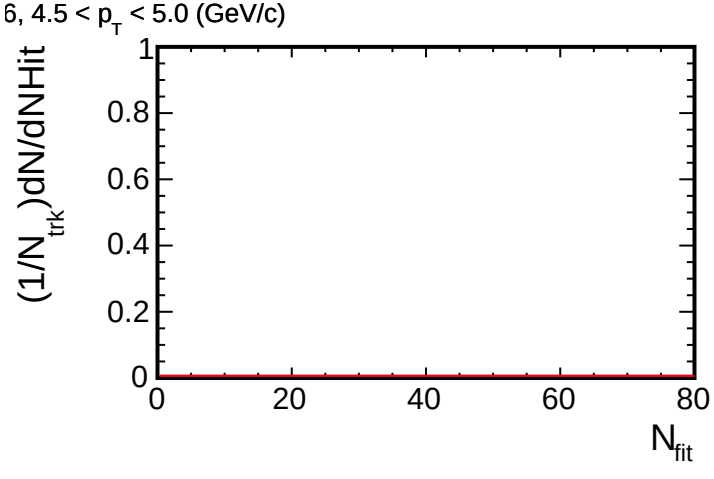
Daughter alpha (from H4Lambda)
(CONTAM, geantid=47)

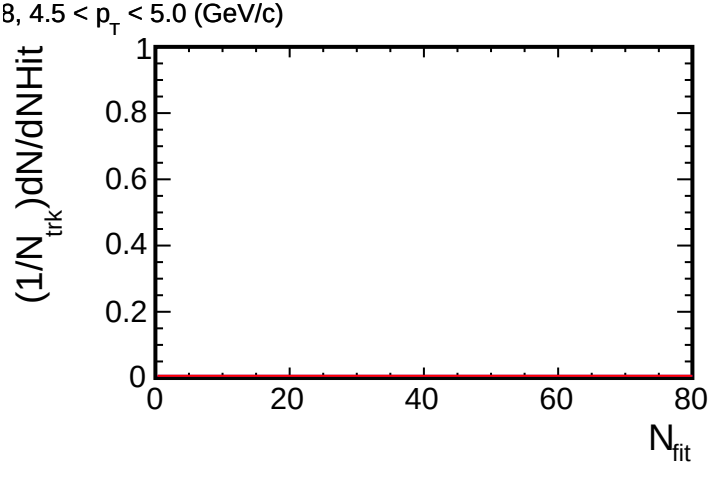
pi+
(PRIMARY, |n σ$_{pi+}$|<2 TPC)

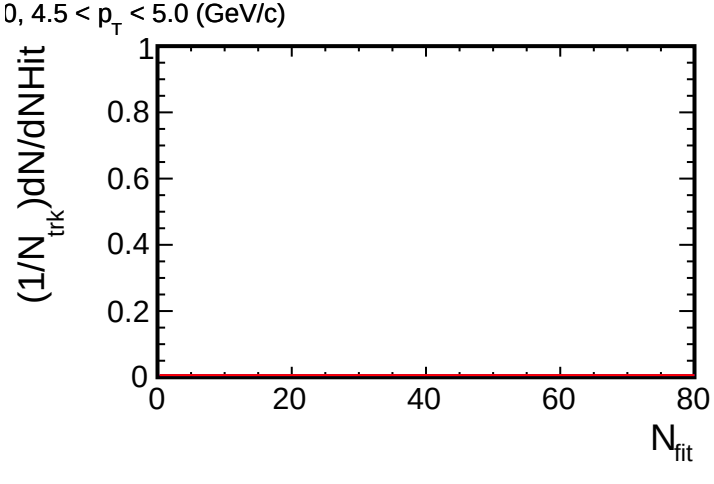
NHit distribution for (p_T, η) slices











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

pi+
(PRIMARY, |n σ$_{pi+}$|<2 TPC)

End of QA