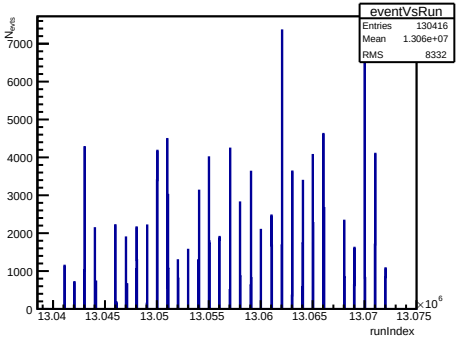
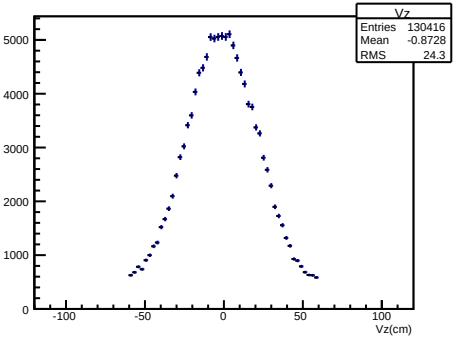
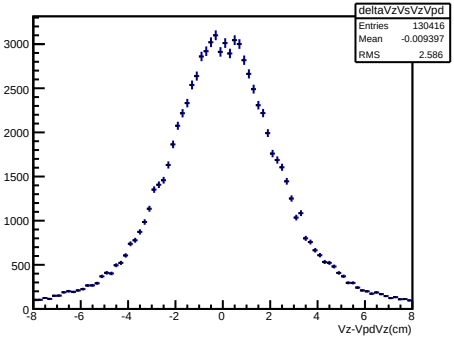
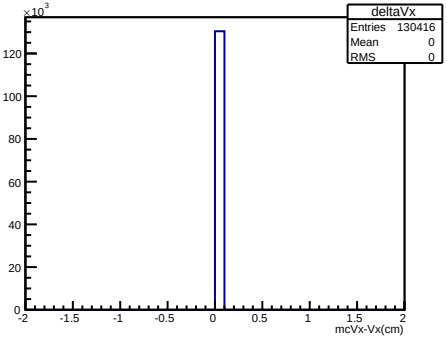
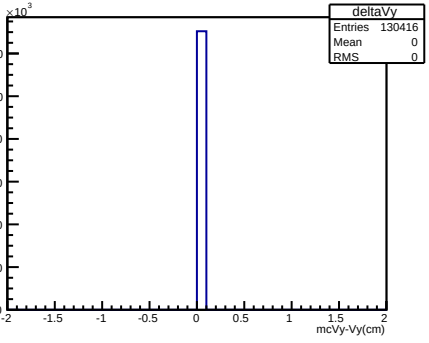
events

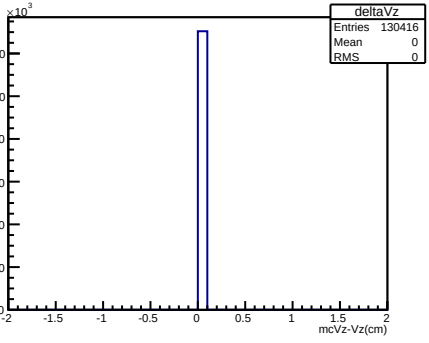

eventVsRun
Entries 130416
Mean 1.306e+07
RMS 8332
N_evts
runIndex
×10^6


Vz
Entries 130416
Mean -0.8728
RMS 24.3
Vz(cm)

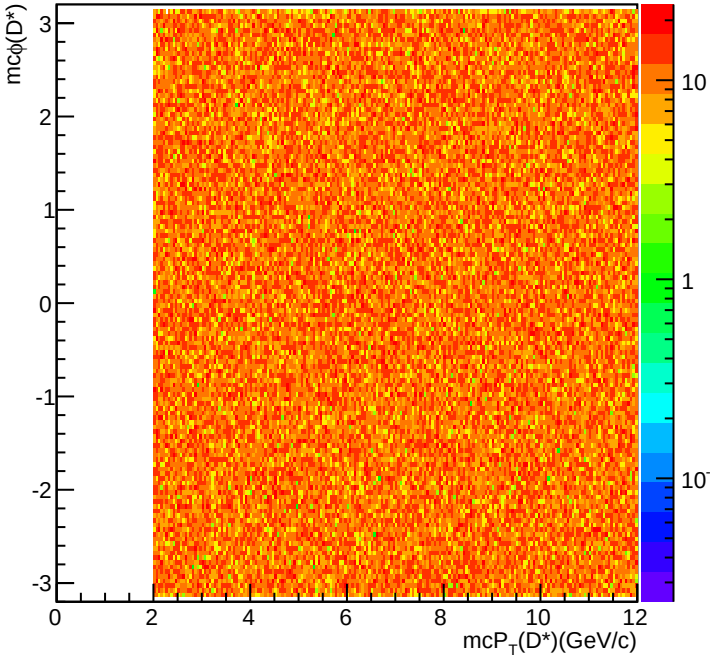

deltaVzVsVzVpd
Entries 130416
Mean -0.009397
RMS 2.586
Vz-VpdVz(cm)

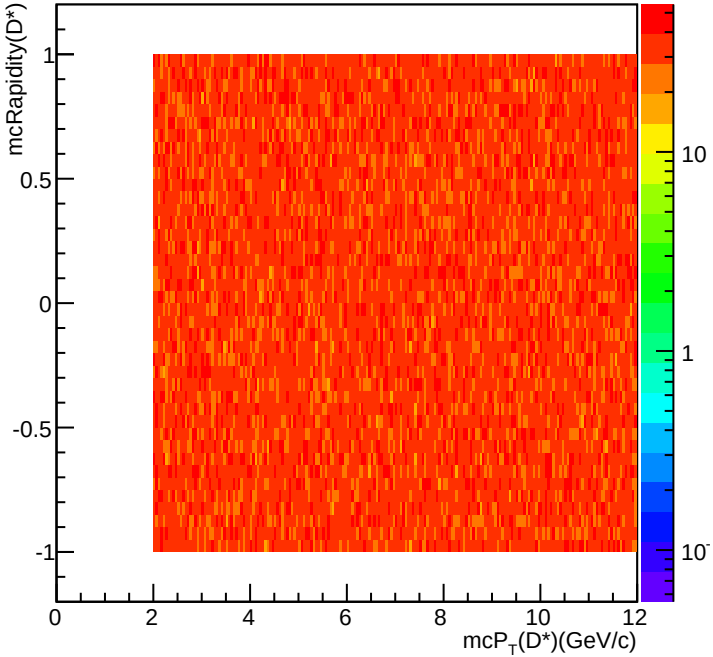

deltaVx
Entries 130416
Mean 0
RMS 0
×10^3
mcVx-Vx(cm)


deltaVy
Entries 130416
Mean 0
RMS 0
×10^3
mcVy-Vy(cm)

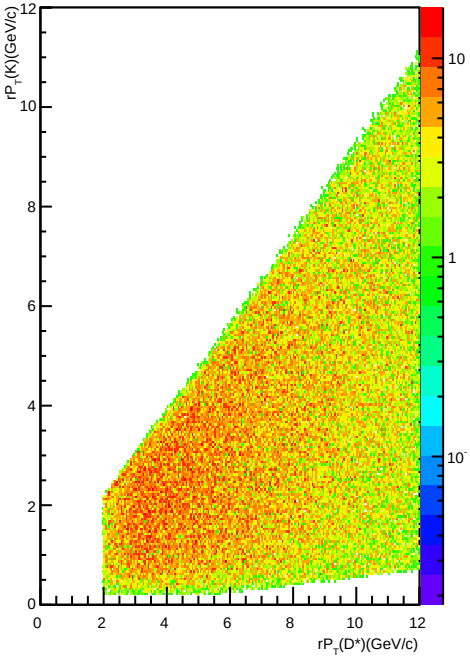

deltaVz
Entries 130416
Mean 0
RMS 0
×10^3
mcVz-Vz(cm)

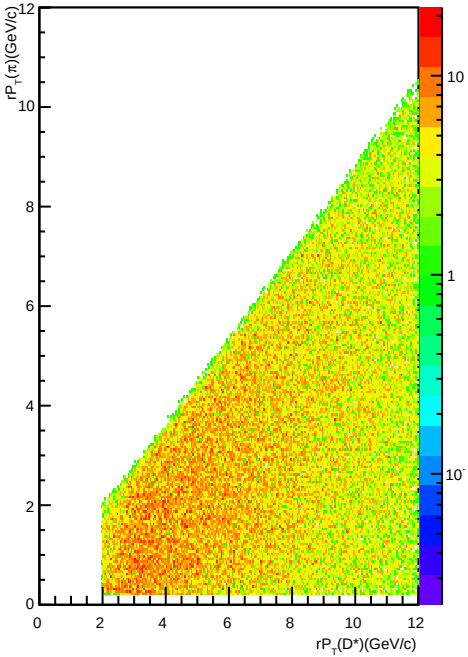
embedding

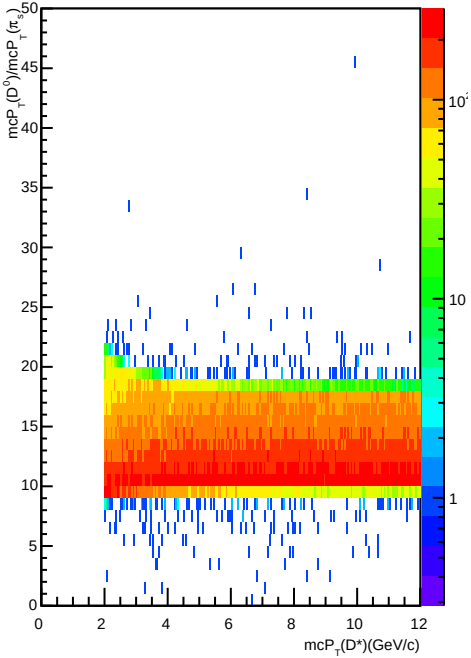

mcφ(D*)
3
2
1
0
-1
-2
-3
0
2
4
6
8
10
12
mcP_T(D*)(GeV/c)
10
1
10^-


mcRapidity(D*)
1
0.5
0
-0.5
-1
0
2
4
6
8
10
12
mcP_T(D*)(GeV/c)
10
1
10^-

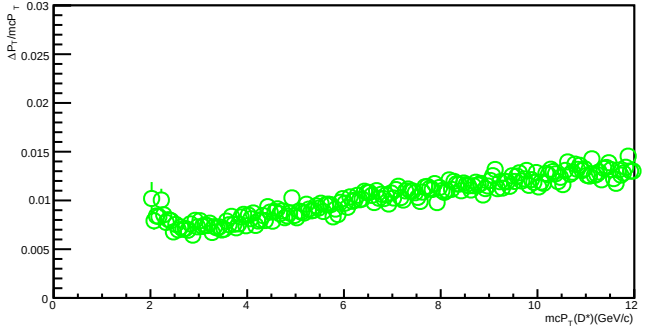
Decay kinematics

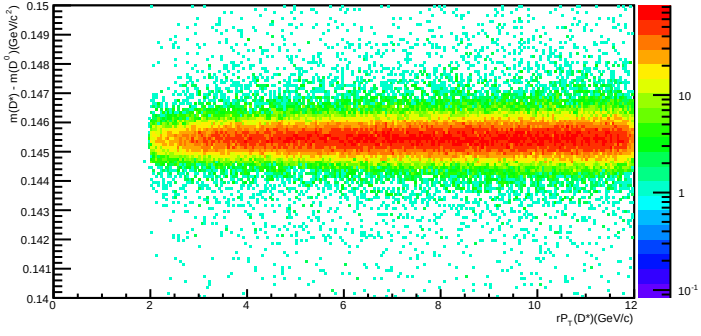


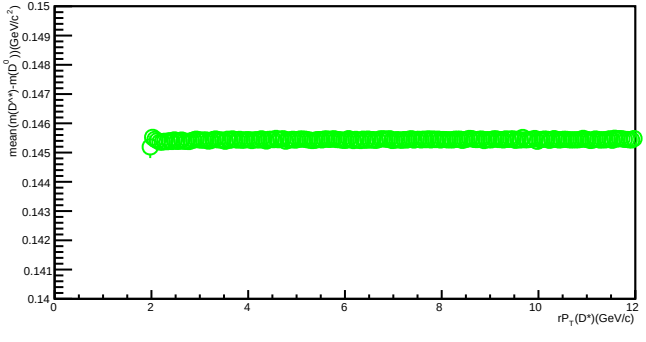


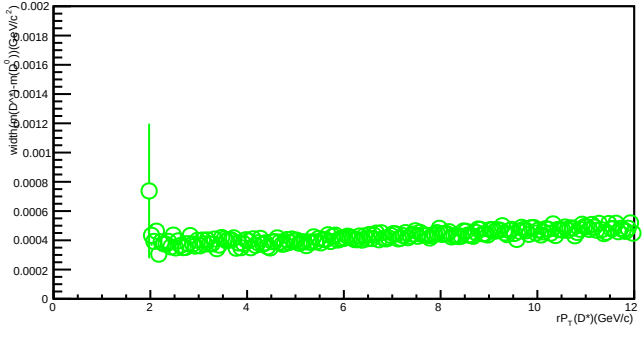


D* reconstruction

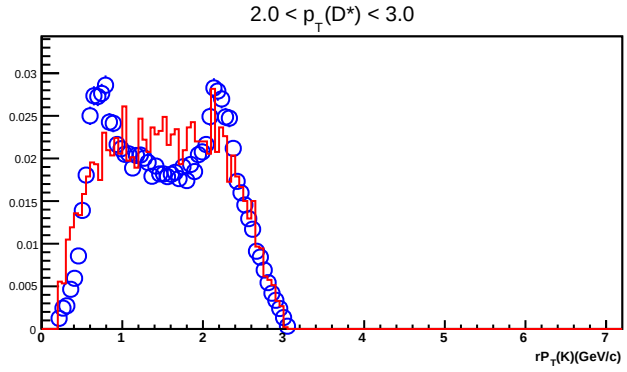


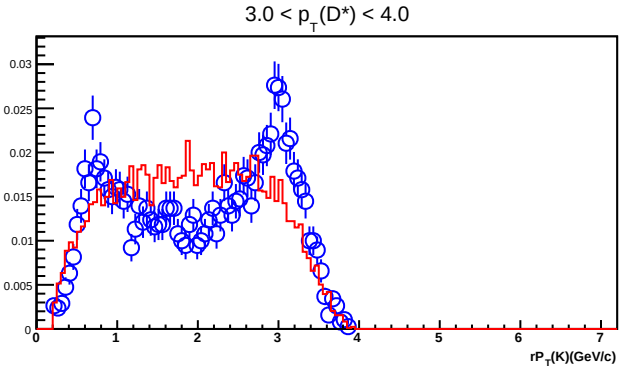


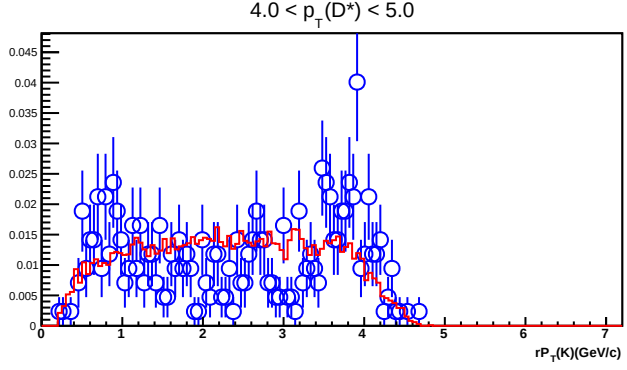


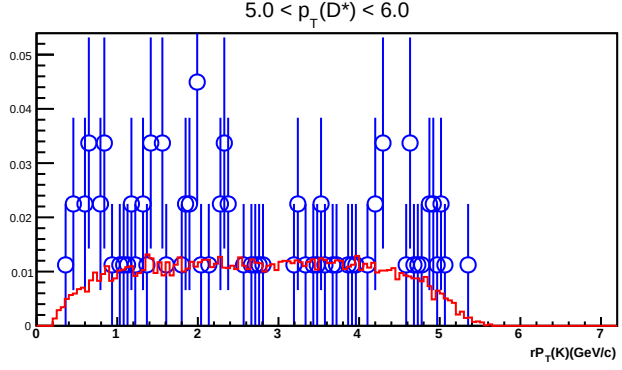


rP_T - K

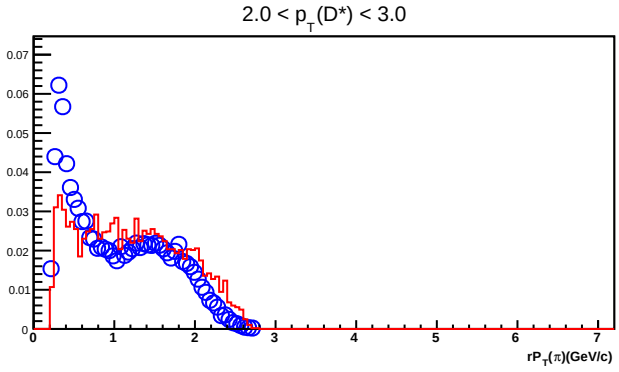

2.0 < p_T(D*) < 3.0
rP_T(K)(GeV/c)

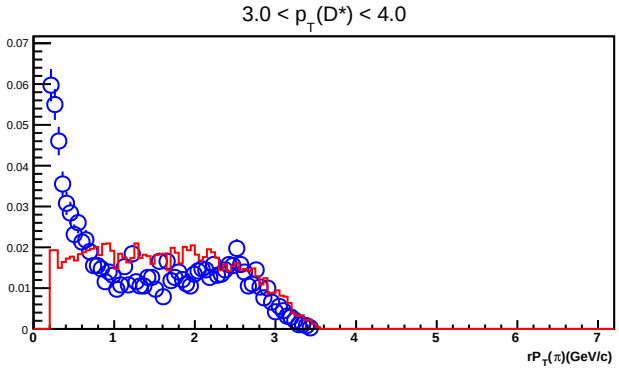

3.0 < p_T(D*) < 4.0
rP_T(K)(GeV/c)

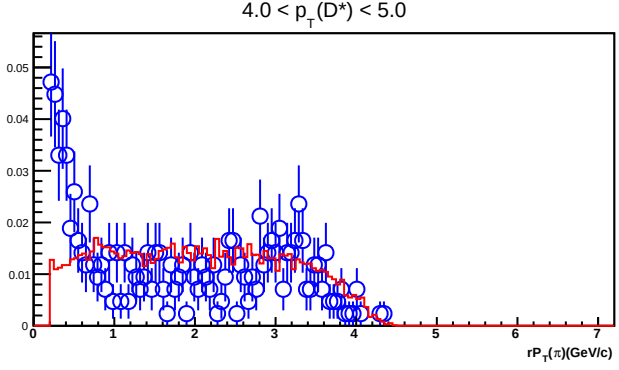

4.0 < p_T(D*) < 5.0
rP_T(K)(GeV/c)

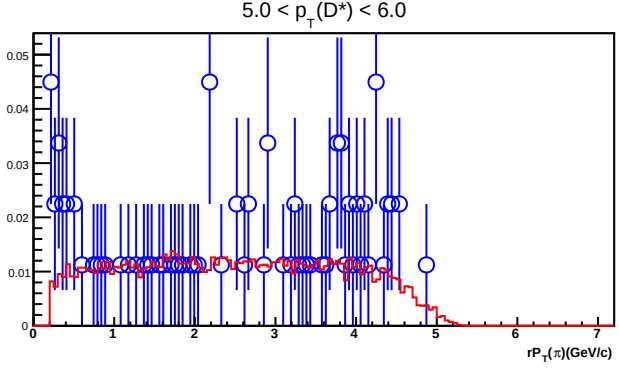

5.0 < p_T(D*) < 6.0
rP_T(K)(GeV/c)

rP_T - π

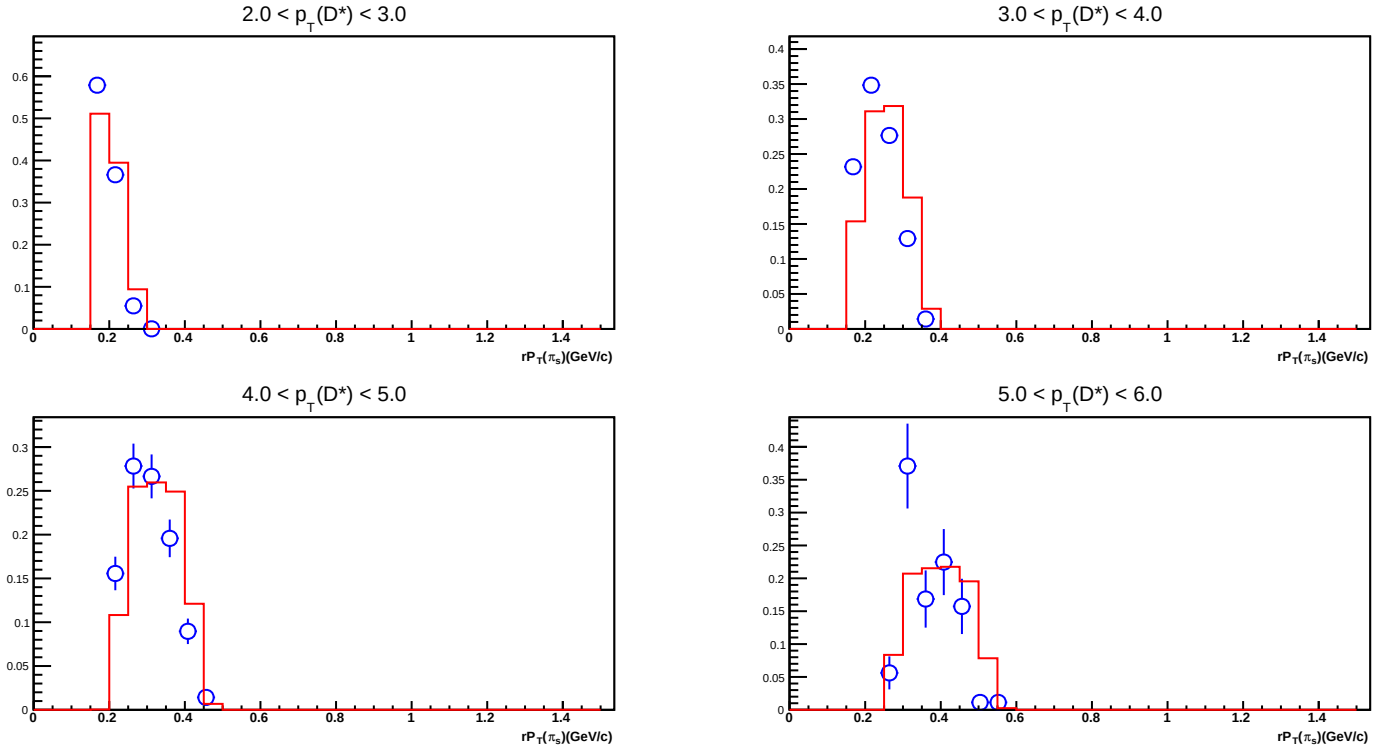

2.0 < p_T(D*) < 3.0
rP_T(π)(GeV/c)


3.0 < p_T(D*) < 4.0
rP_T(π)(GeV/c)

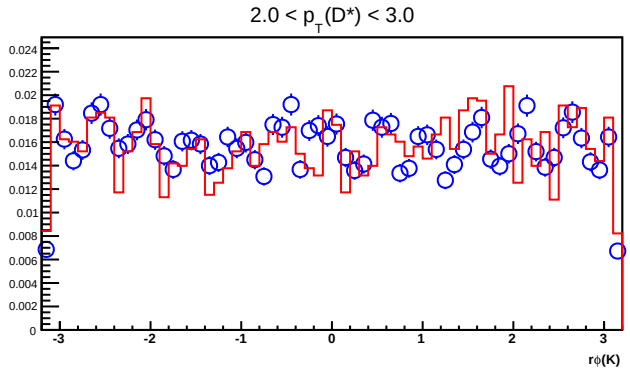

4.0 < p_T(D*) < 5.0
rP_T(π)(GeV/c)

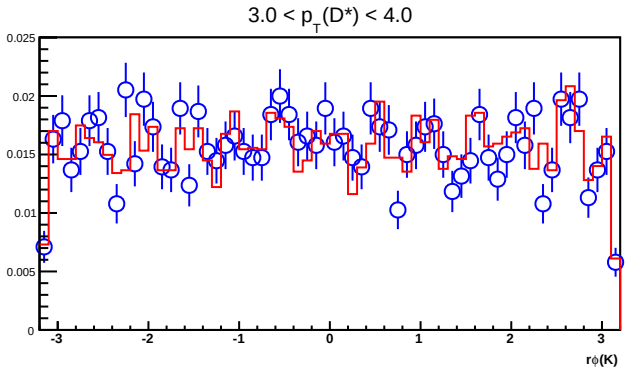

5.0 < p_T(D*) < 6.0
rP_T(π)(GeV/c)

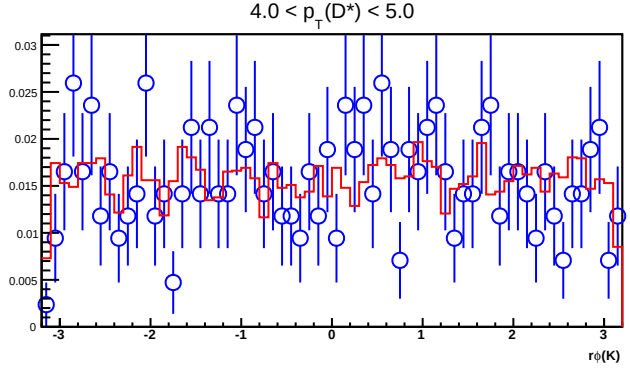
rP_T - π_s

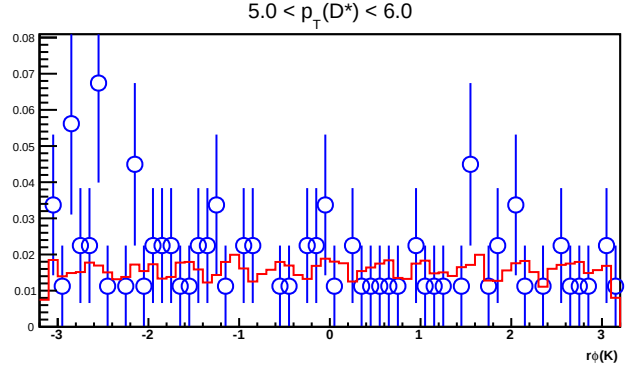


rϕ - K

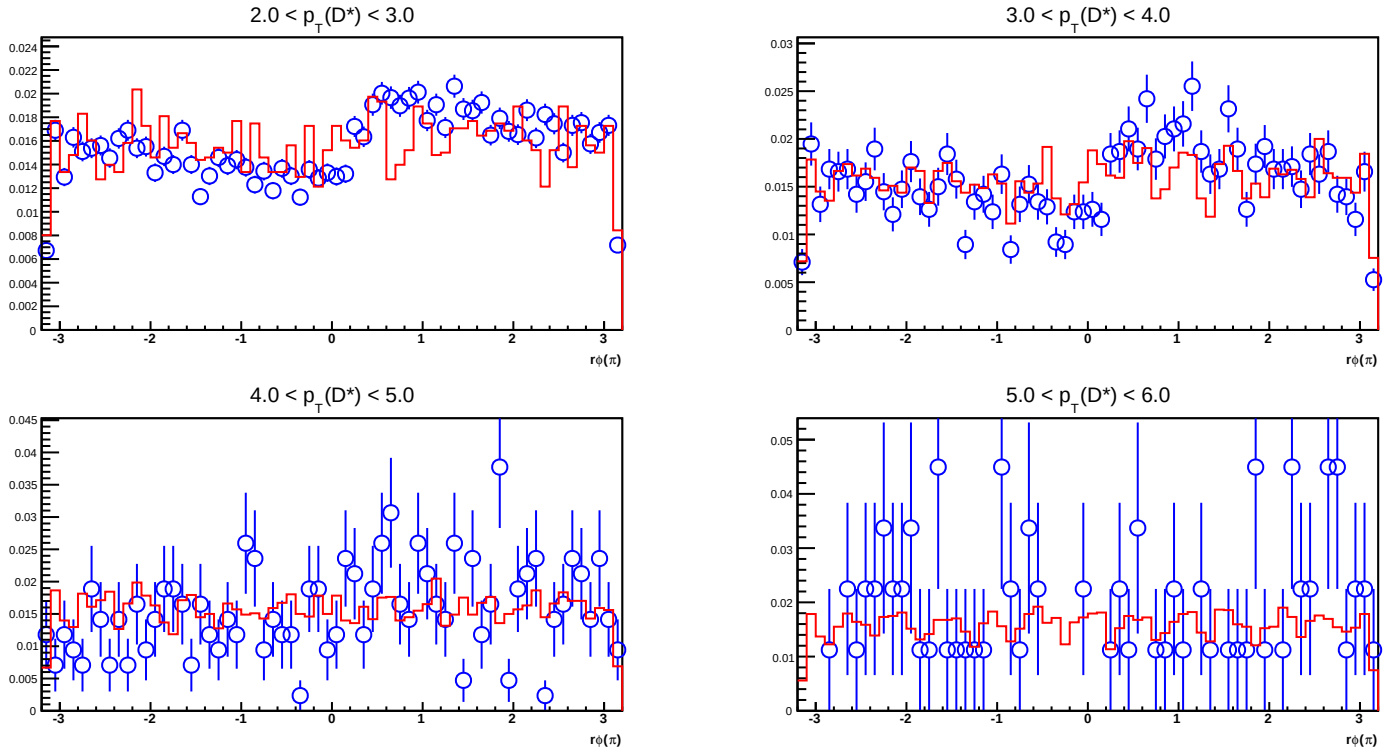




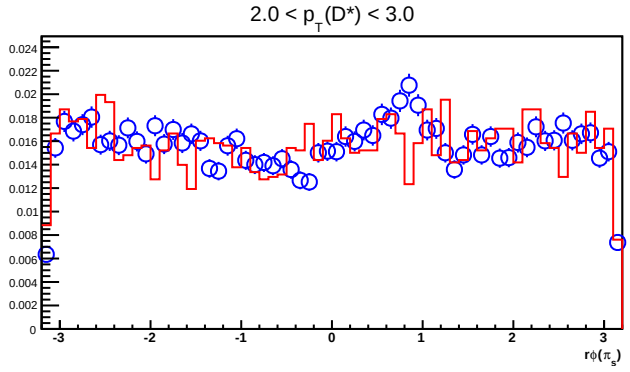


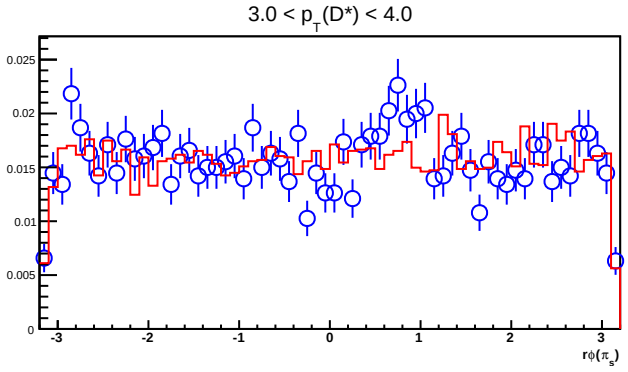


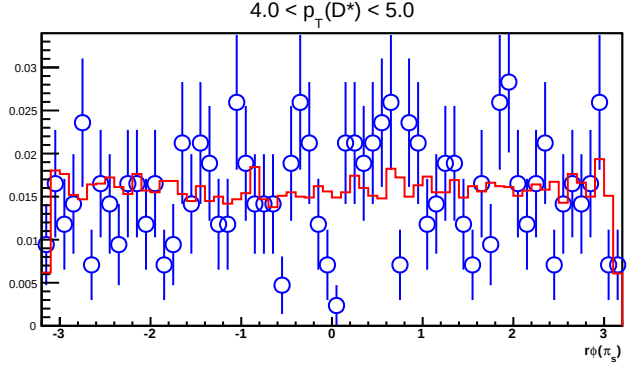
rϕ - π

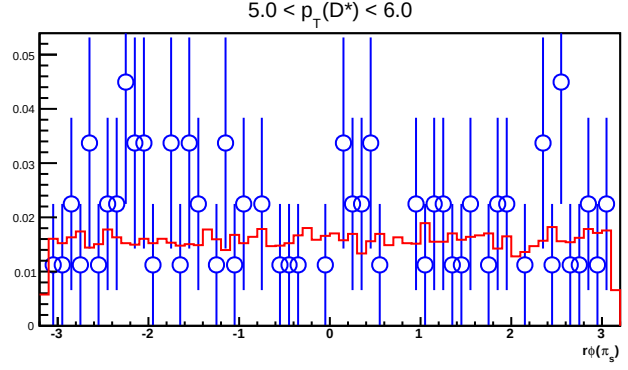


$r\phi$ - π_s

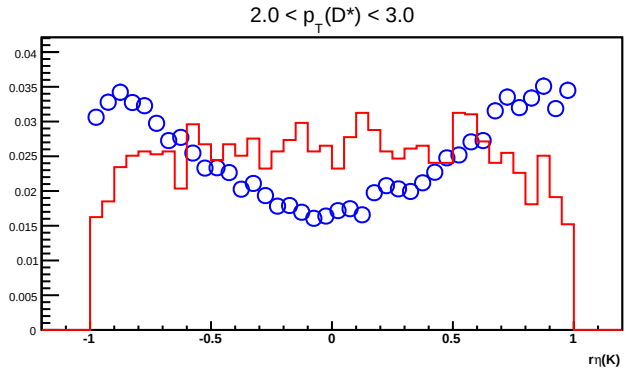


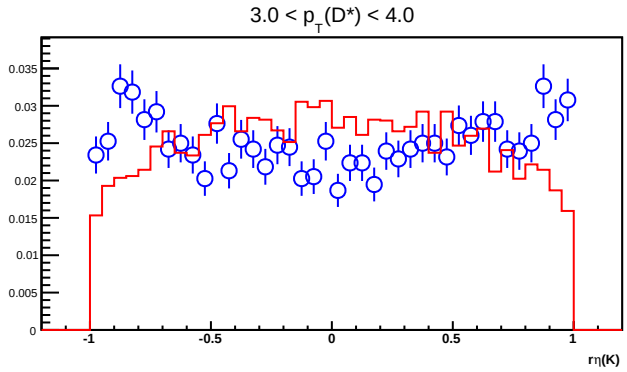


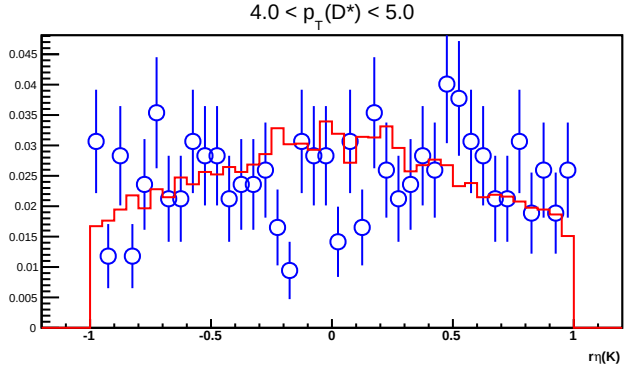


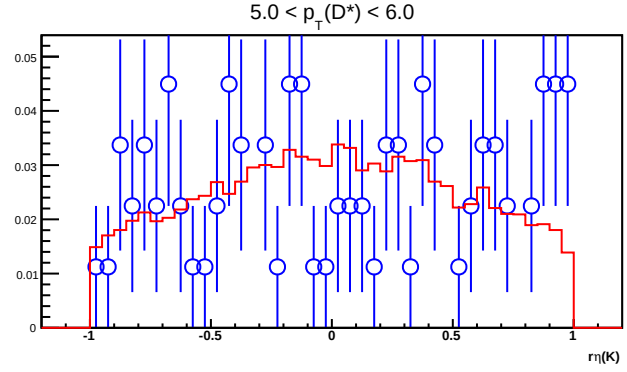


rη - K

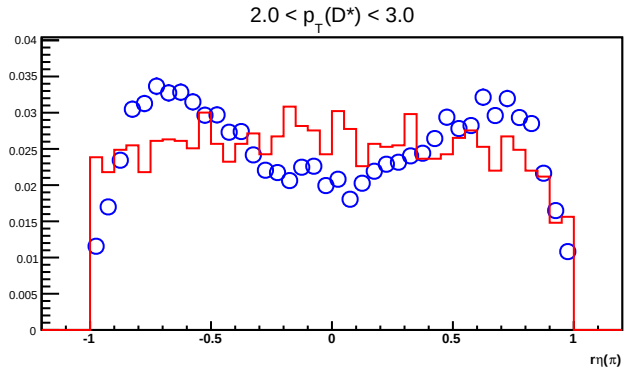


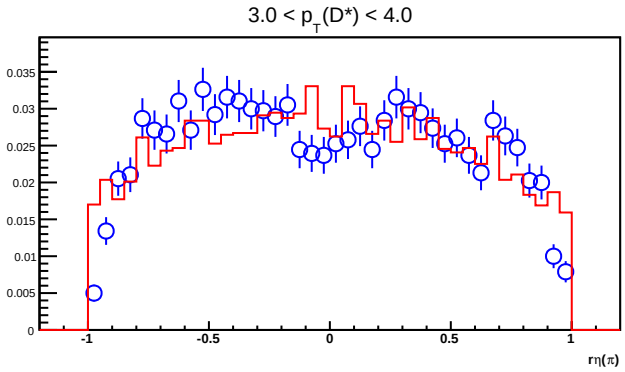


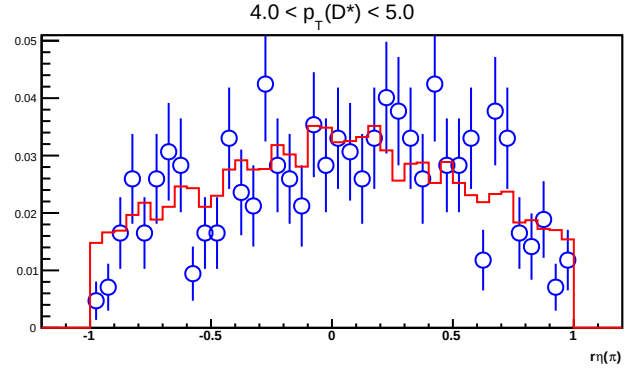


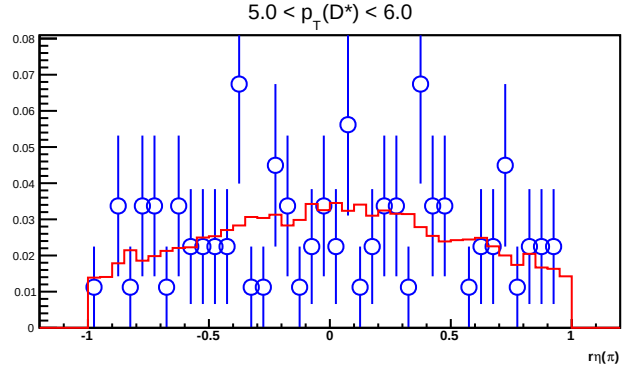


rη - π

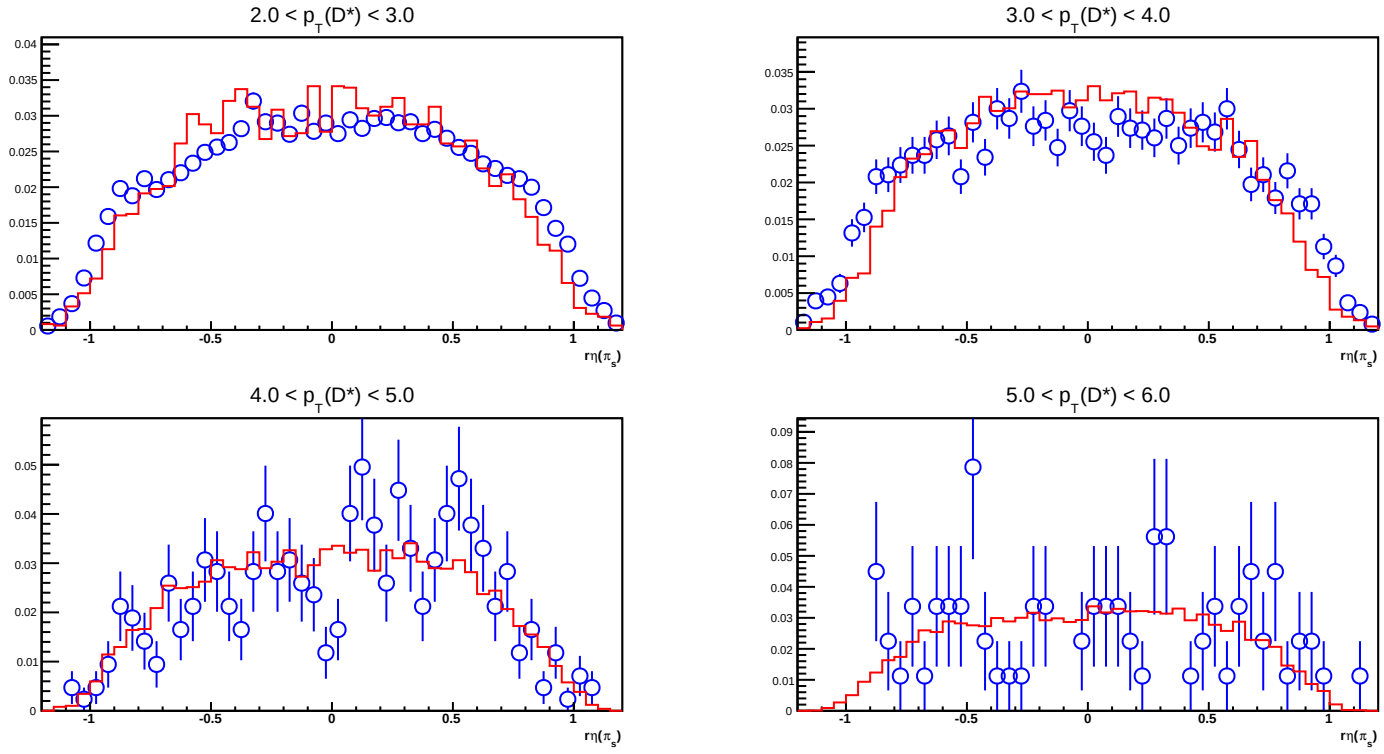




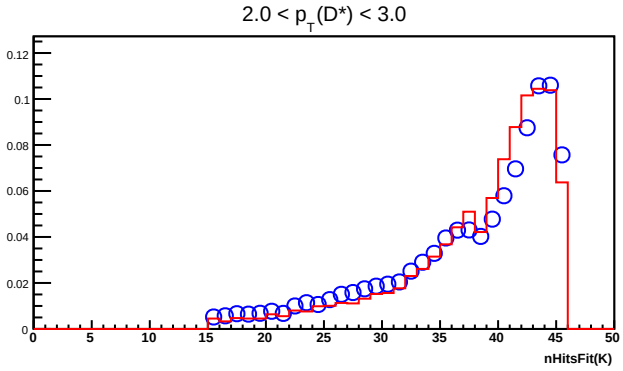


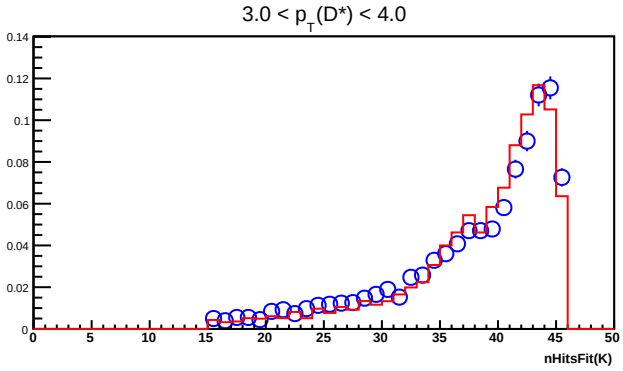


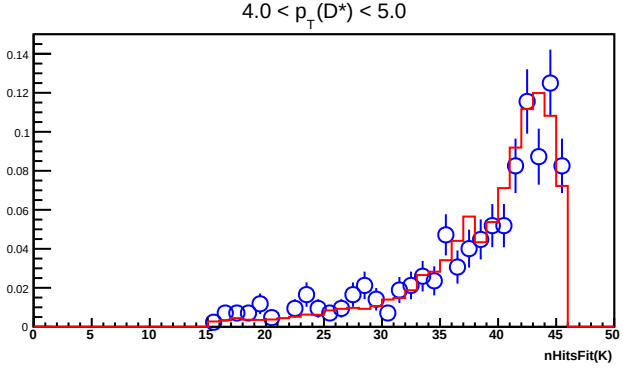
$r\eta$ - π_s

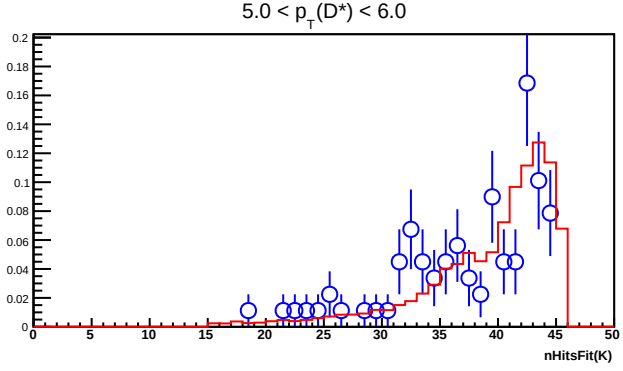


nHitsFit - K

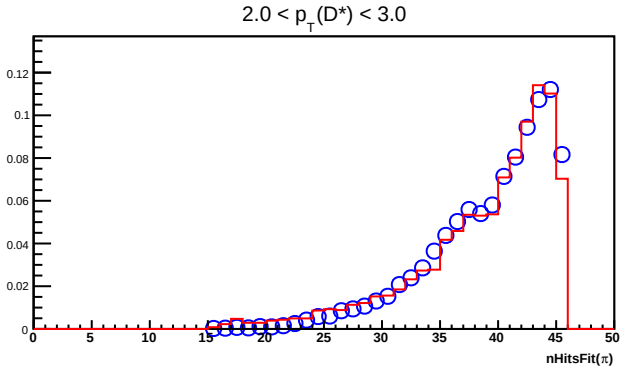

2.0 < p_T(D*) < 3.0
nHitsFit(K)

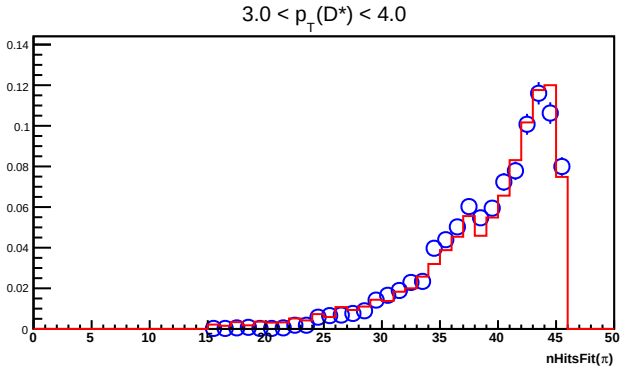

3.0 < p_T(D*) < 4.0
nHitsFit(K)


4.0 < p_T(D*) < 5.0
nHitsFit(K)


5.0 < p_T(D*) < 6.0
nHitsFit(K)

nHitsFit - π


2.0 < p_T(D*) < 3.0
nHitsFit(π)


3.0 < p_T(D*) < 4.0
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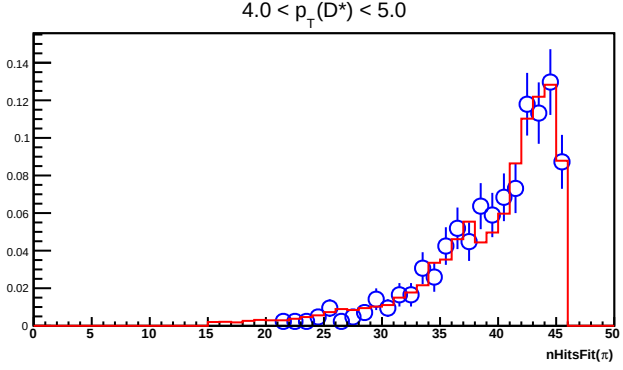
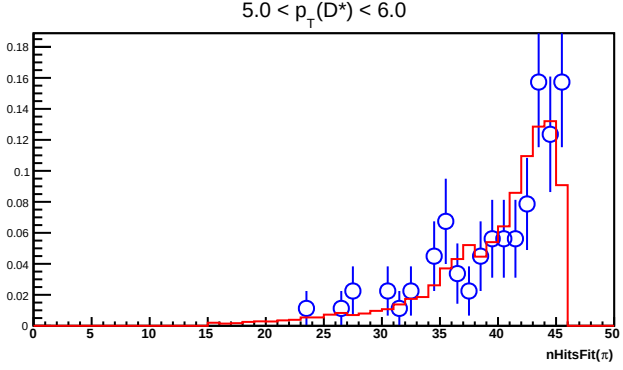
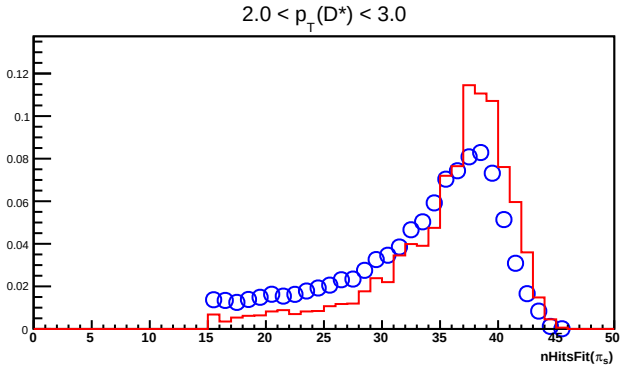
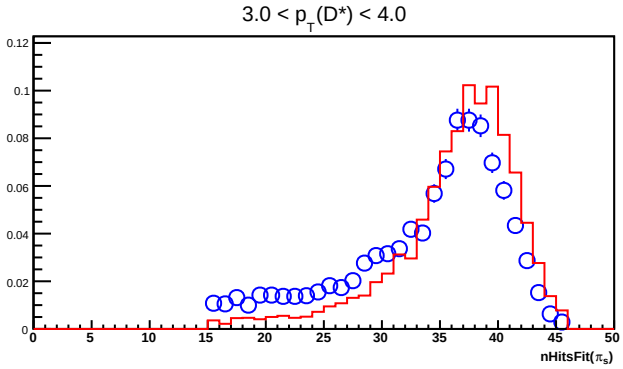
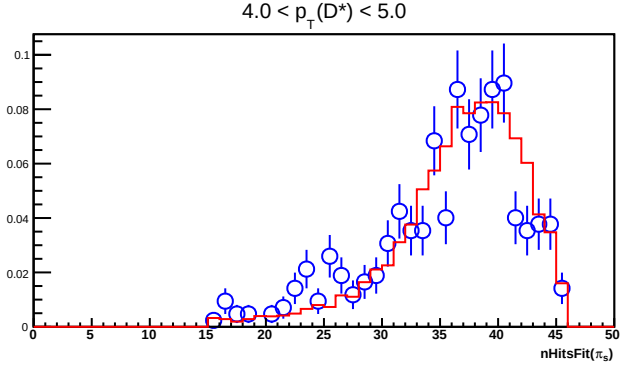

4.0 < p_T(D*) < 5.0
nHitsFit(π)

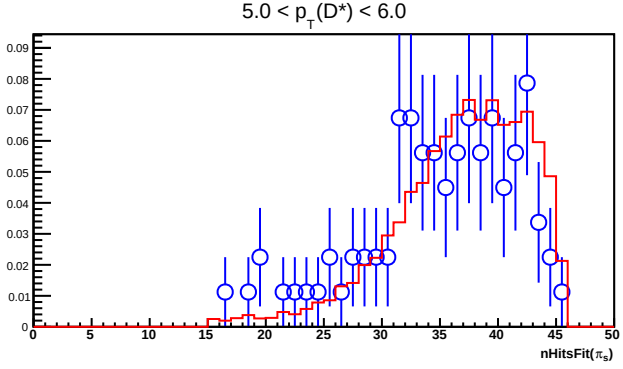

5.0 < p_T(D*) < 6.0
nHitsFit(π)

nHitsFit - π_s

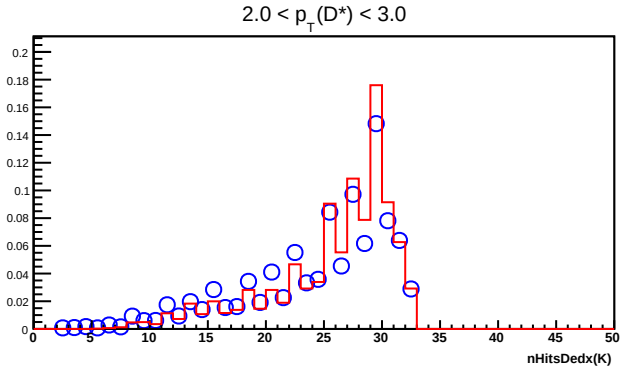


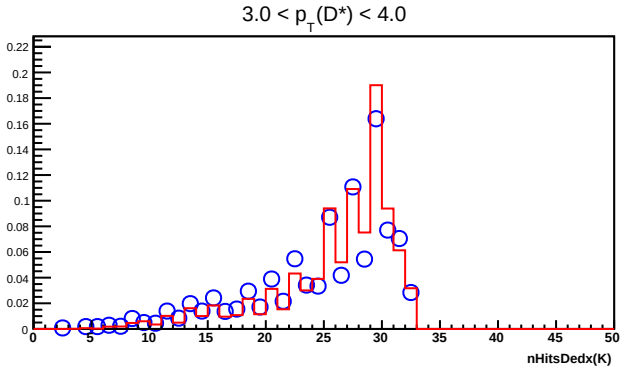


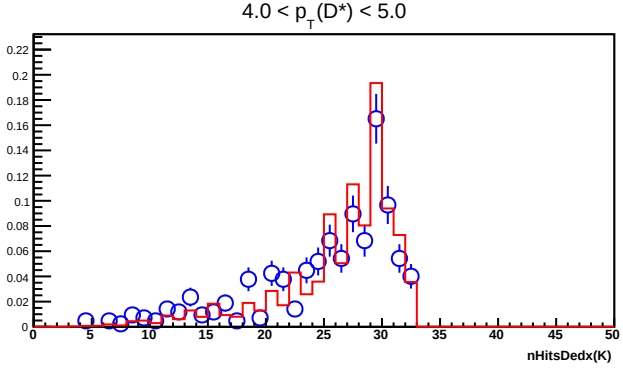


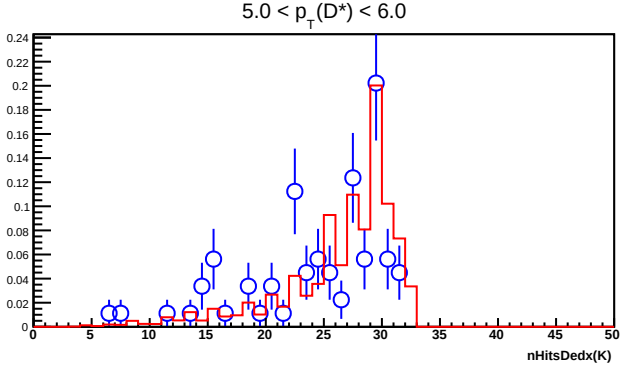


nHitsDedx - K

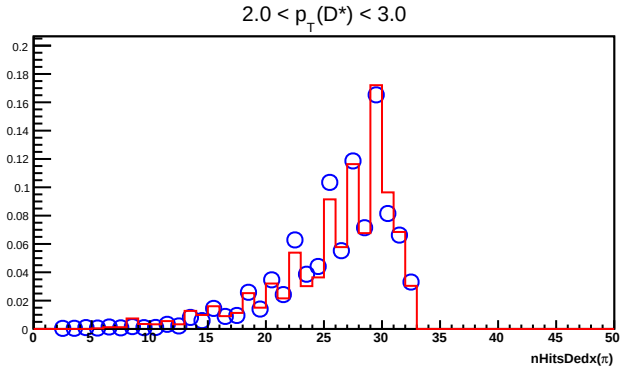

2.0 < p_T(D*) < 3.0
nHitsDedx(K)

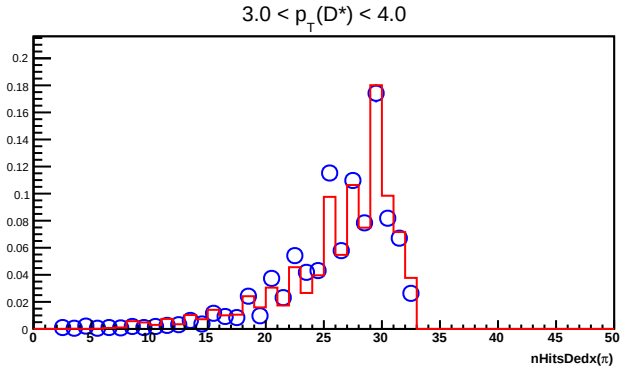

3.0 < p_T(D*) < 4.0
nHitsDedx(K)

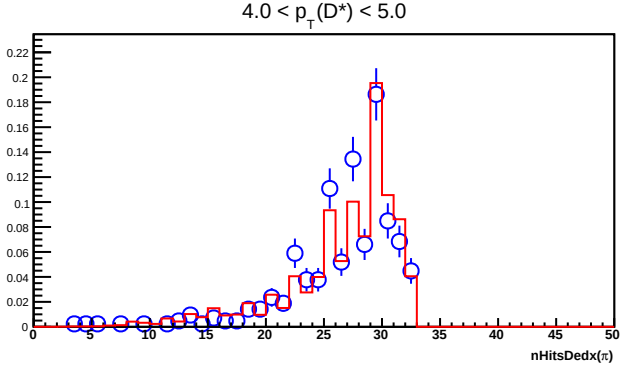

4.0 < p_T(D*) < 5.0
nHitsDedx(K)

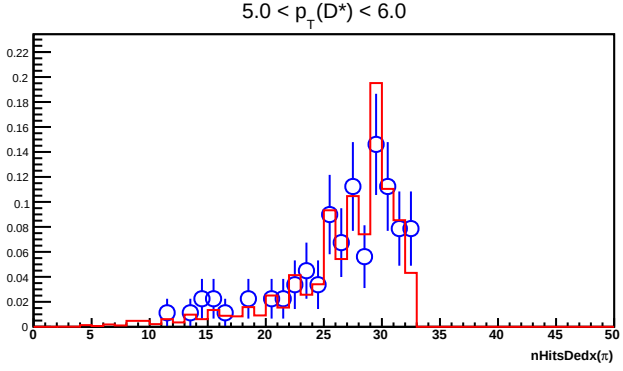

5.0 < p_T(D*) < 6.0
nHitsDedx(K)

nHitsDedx - π

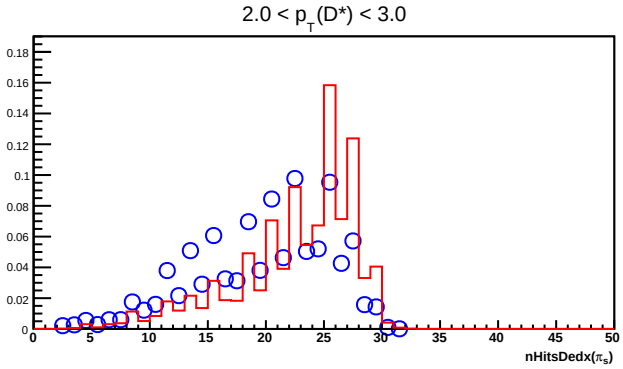

2.0 < p_T(D*) < 3.0
nHitsDedx(π)

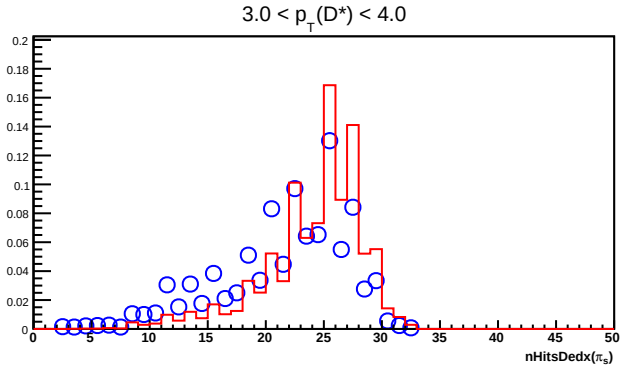

3.0 < p_T(D*) < 4.0
nHitsDedx(π)

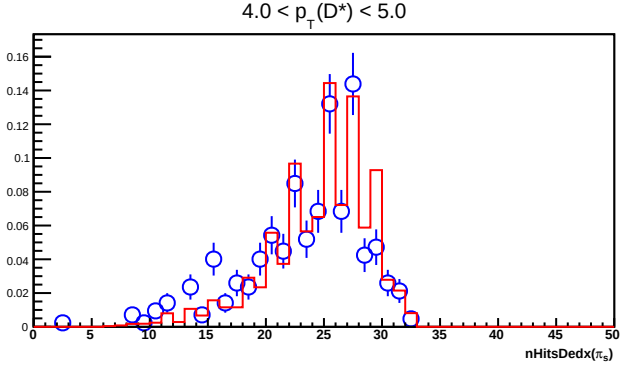

4.0 < p_T(D*) < 5.0
nHitsDedx(π)

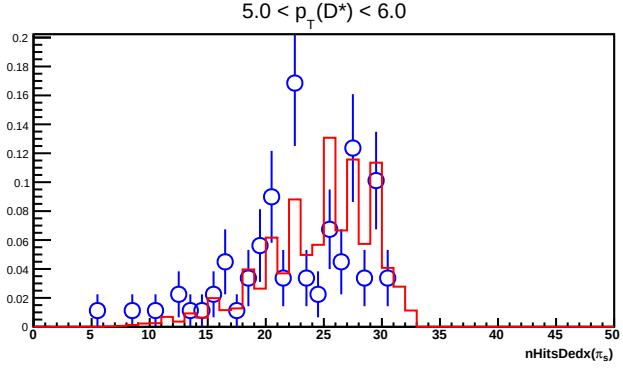

5.0 < p_T(D*) < 6.0
nHitsDedx(π)

nHitsDedx - π_s

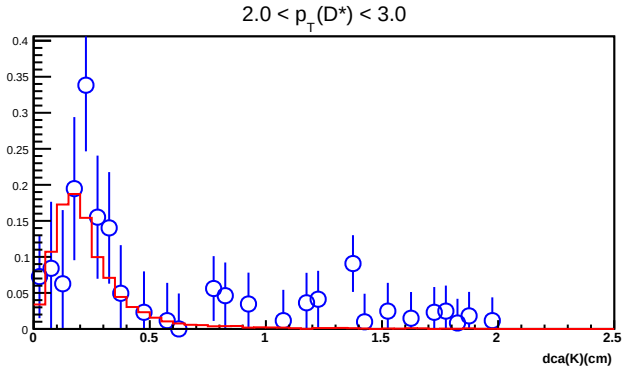


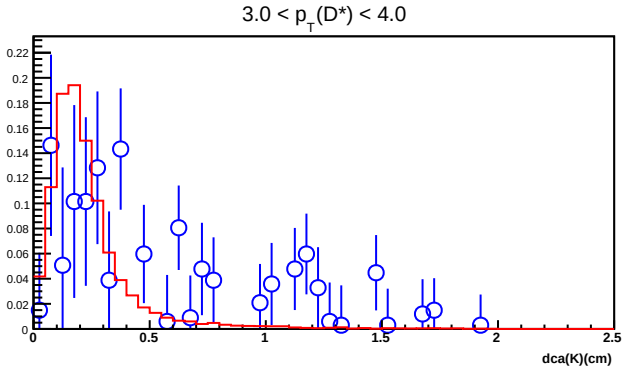


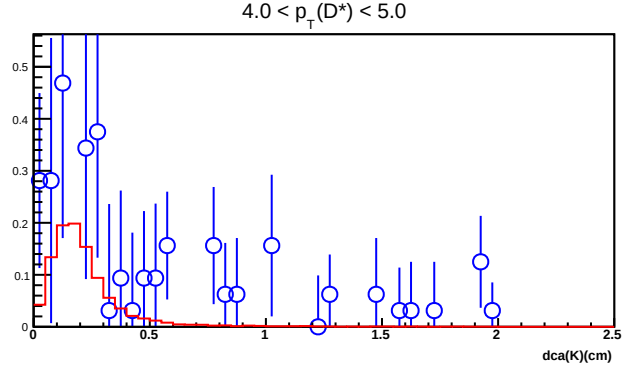


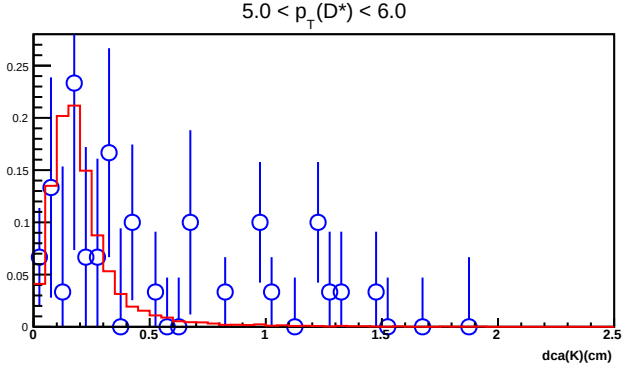


dca - K

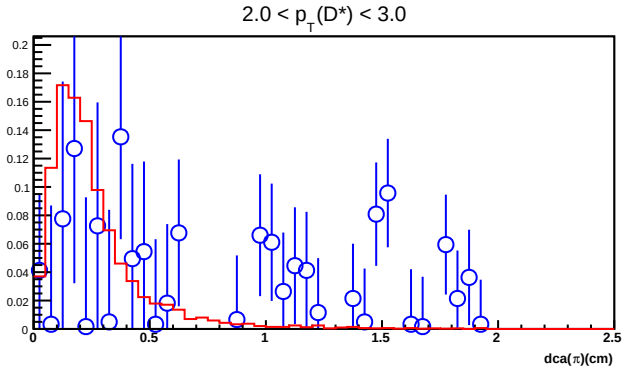

2.0 < p_T(D*) < 3.0
dca(K)(cm)

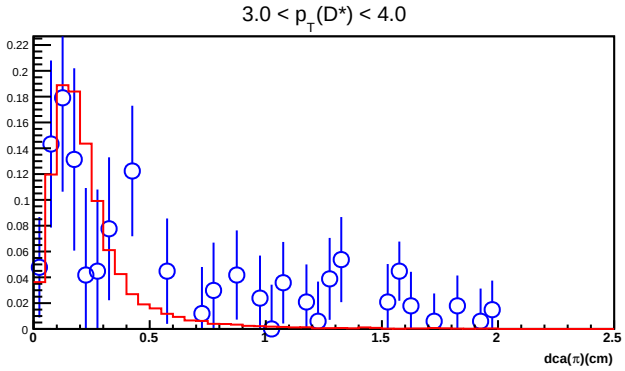

3.0 < p_T(D*) < 4.0
dca(K)(cm)

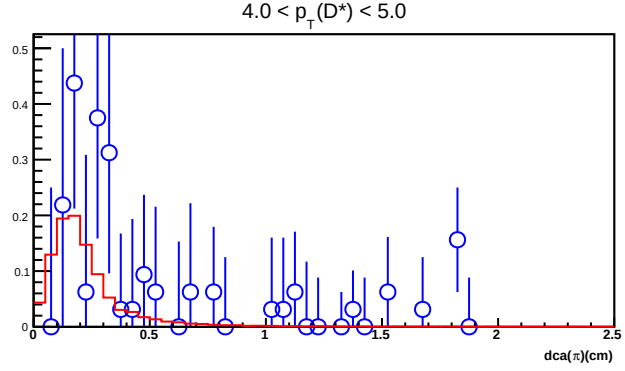

4.0 < p_T(D*) < 5.0
dca(K)(cm)

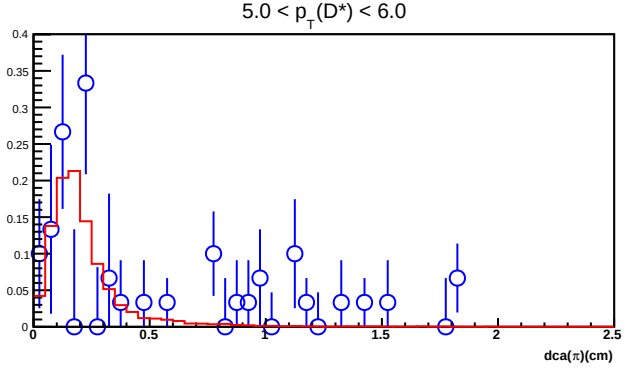

5.0 < p_T(D*) < 6.0
dca(K)(cm)

dca - π

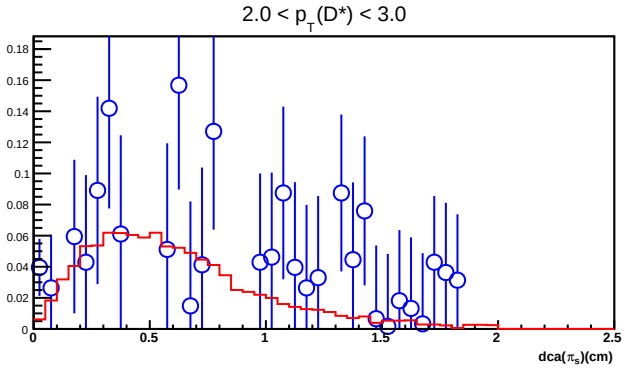

2.0 < p_T(D*) < 3.0
dca(π)(cm)

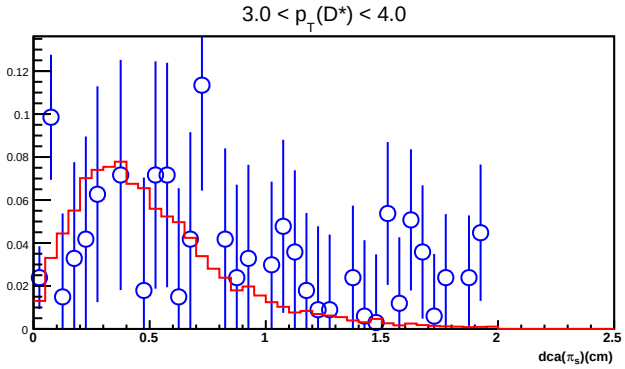

3.0 < p_T(D*) < 4.0
dca(π)(cm)

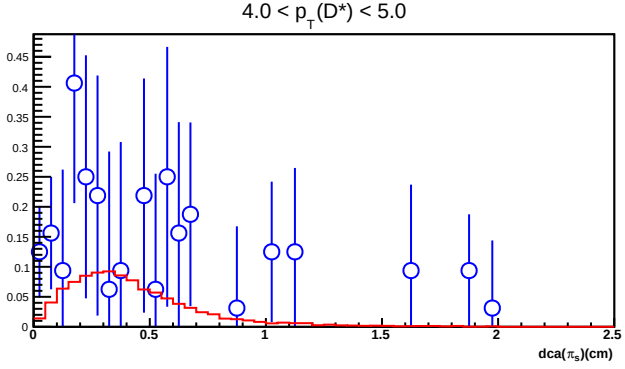

4.0 < p_T(D*) < 5.0
dca(π)(cm)

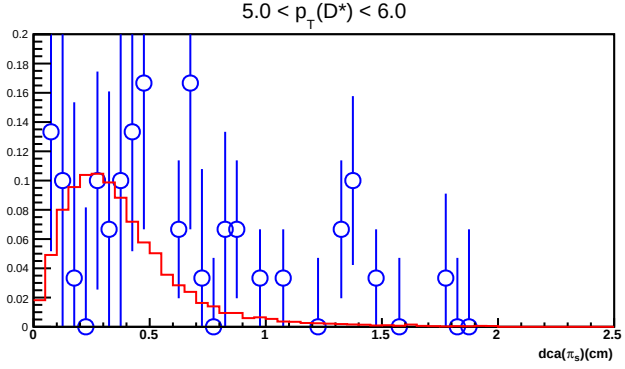

5.0 < p_T(D*) < 6.0
dca(π)(cm)

dca - π_s

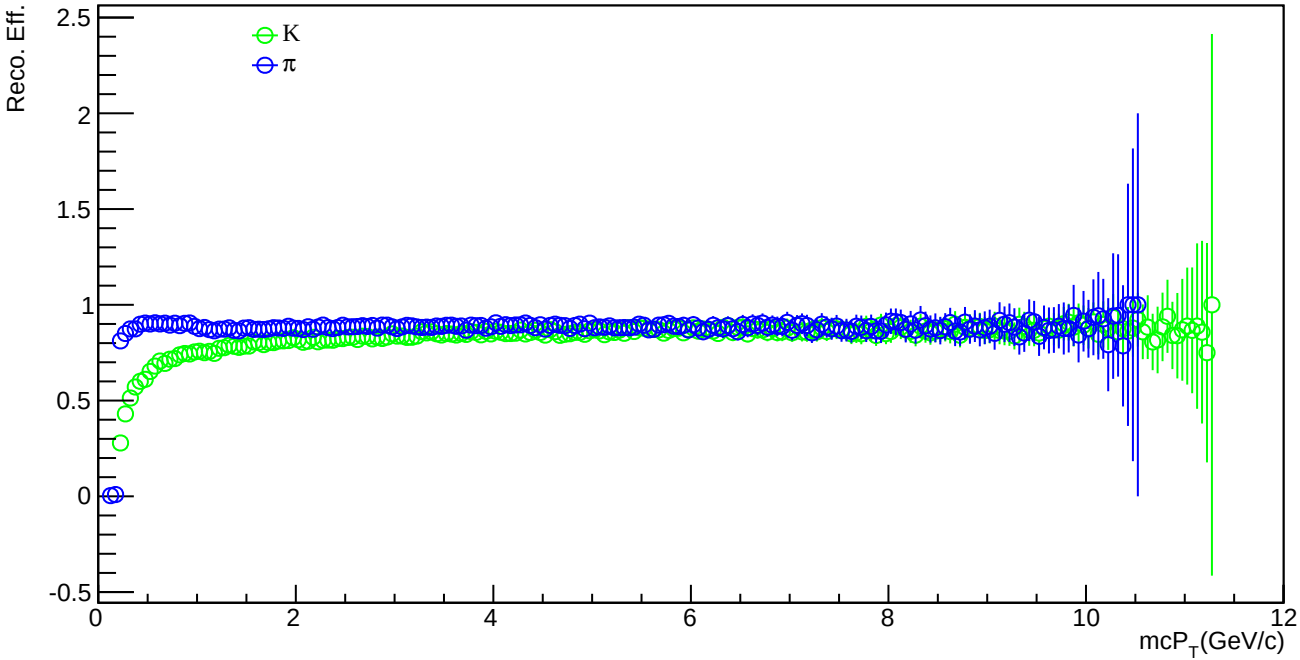
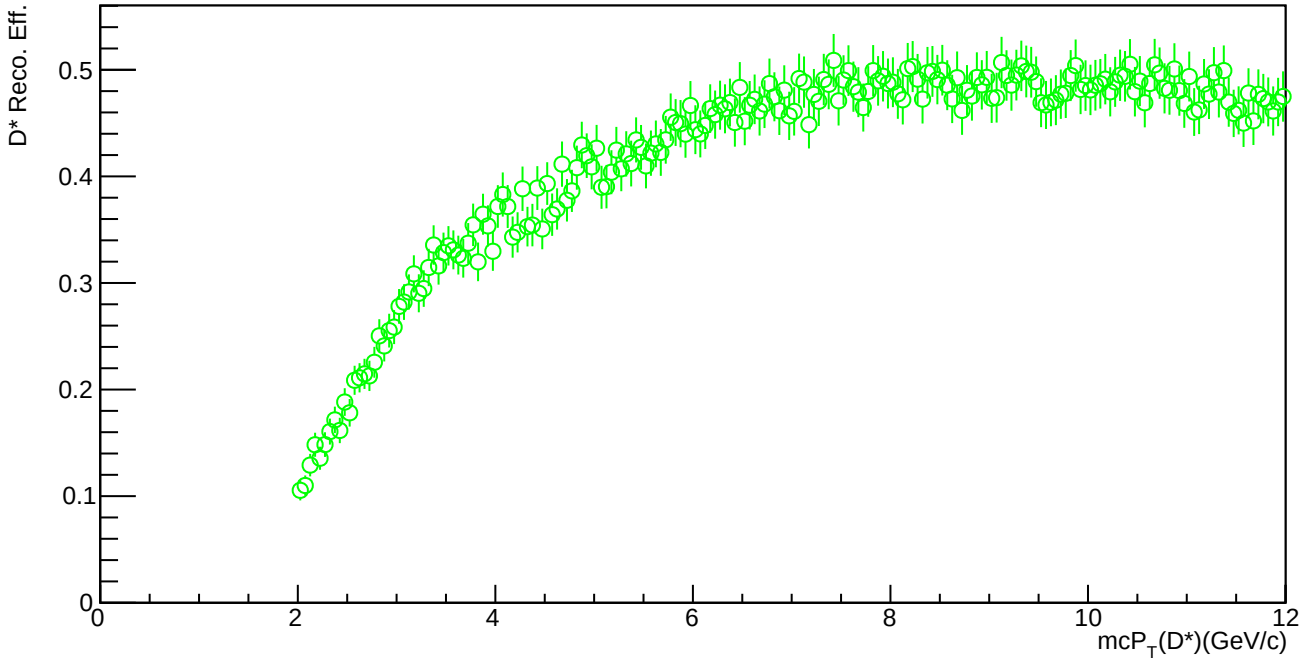

2.0 < p_T(D*) < 3.0
dca(π_s)(cm)


3.0 < p_T(D*) < 4.0
dca(π_s)(cm)


4.0 < p_T(D*) < 5.0
dca(π_s)(cm)


5.0 < p_T(D*) < 6.0
dca(π_s)(cm)

single-tracks tracking efficiency(nfit,nfit/nmax,dca)



D* accpetance × tracking efficiency