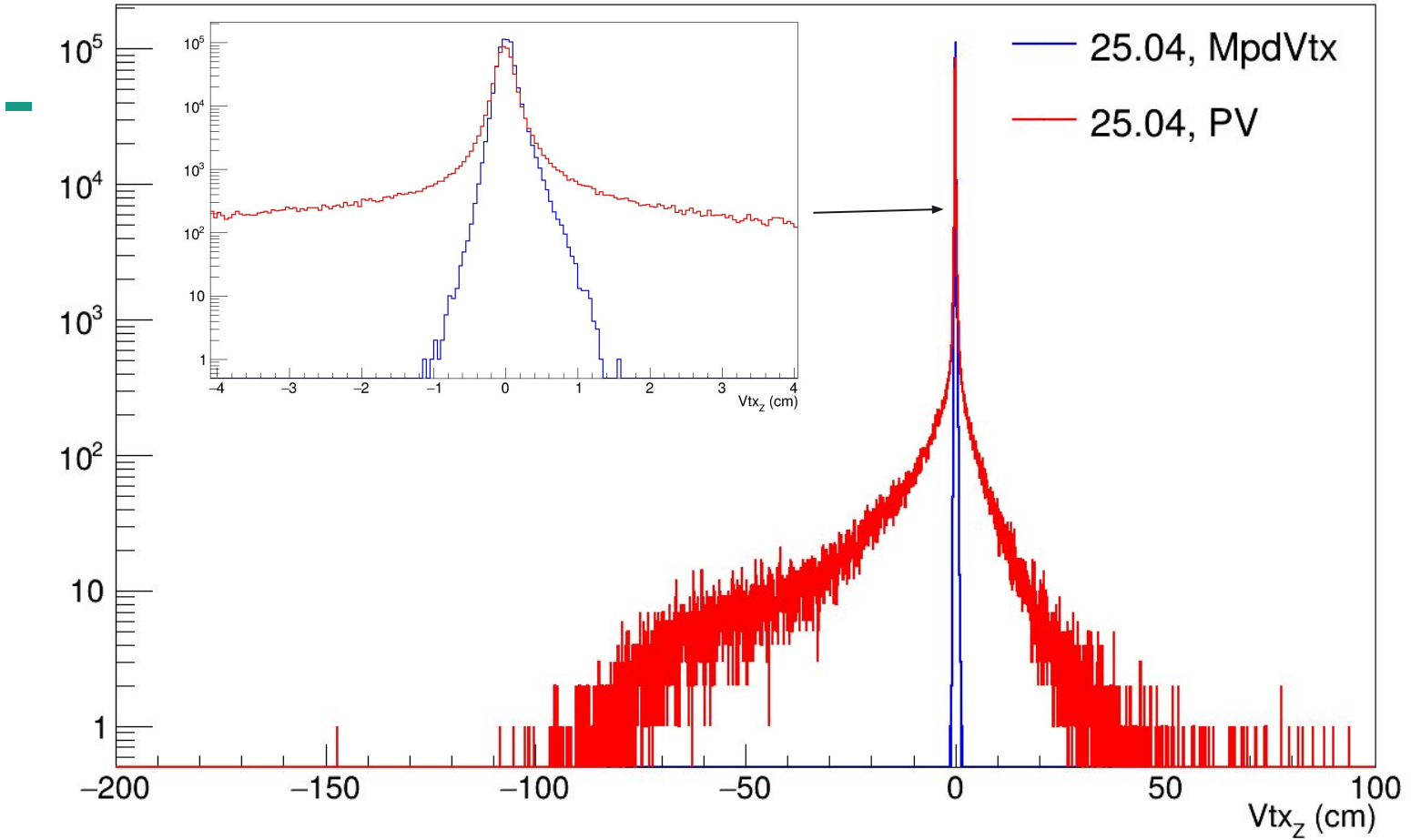
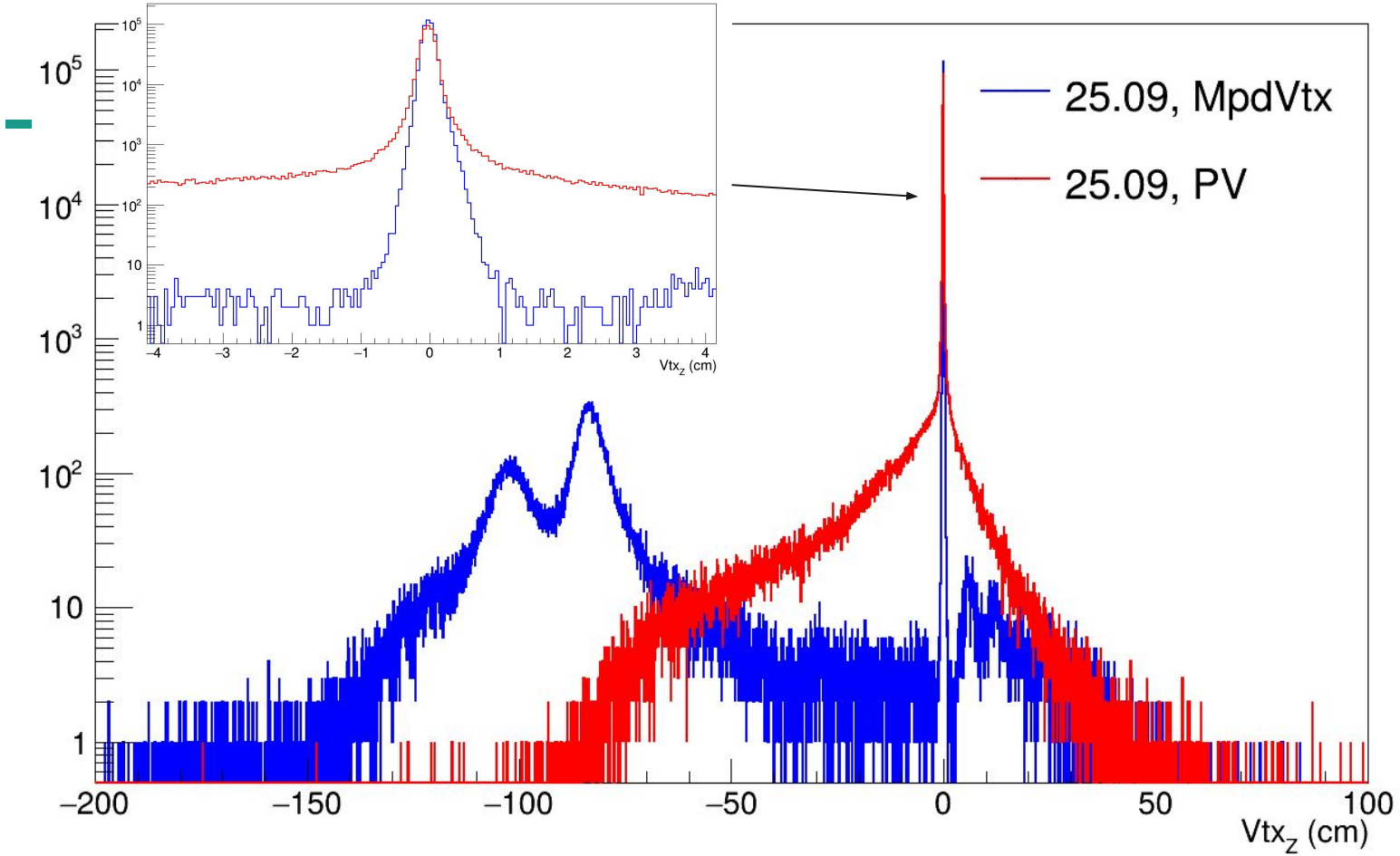
MpdVertex 25.04 vs 25.09

18.02.2026

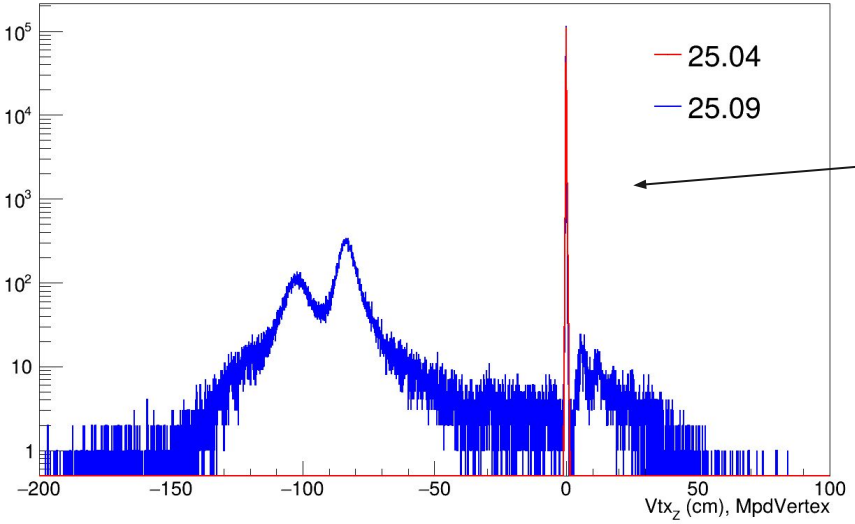
Mpd Vertex Z (CCT2, nVtxTr>1, Run 8130) 25.04

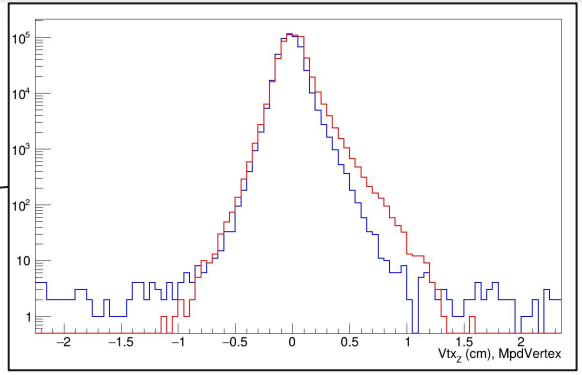


Mpd Vertex Z (CCT2, nVtxTr>1, Run 8130) 25.09



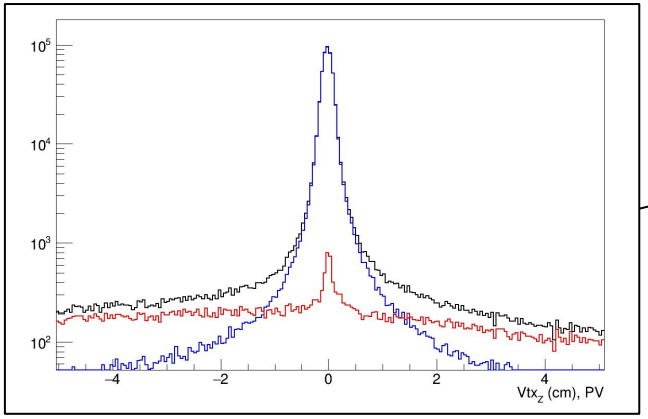
Mpd Vertex Z (CCT2, nVtxTr>1, Run 8130)

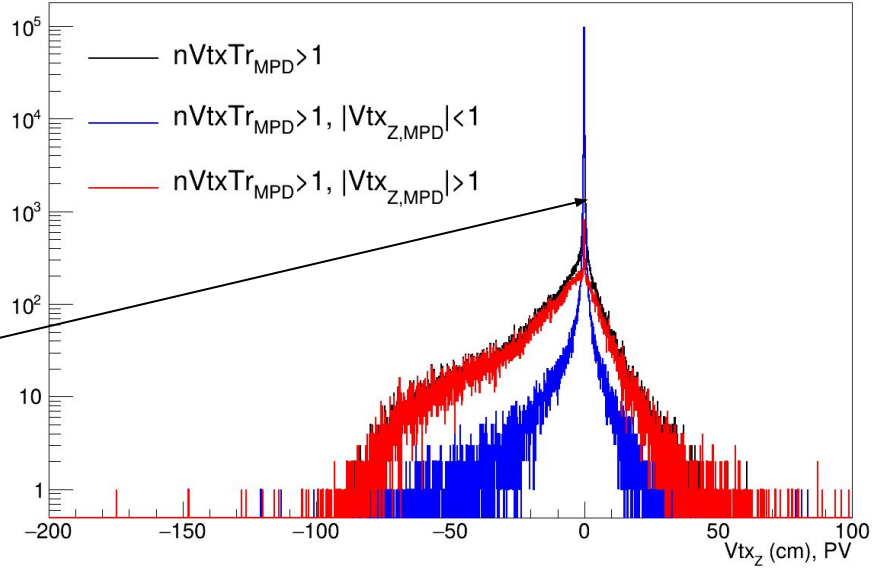


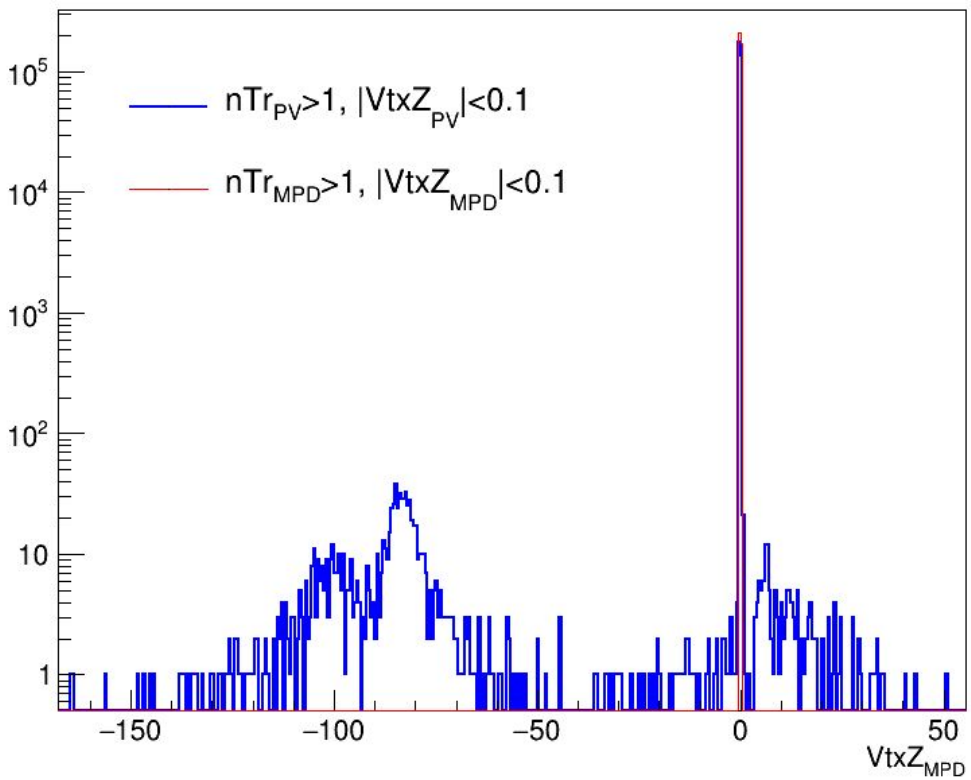


$|VtxZ_{MPD}| < 1 \sim 0.5M$

$|VtxZ_{MPD}| > 1 \sim 0.1M$

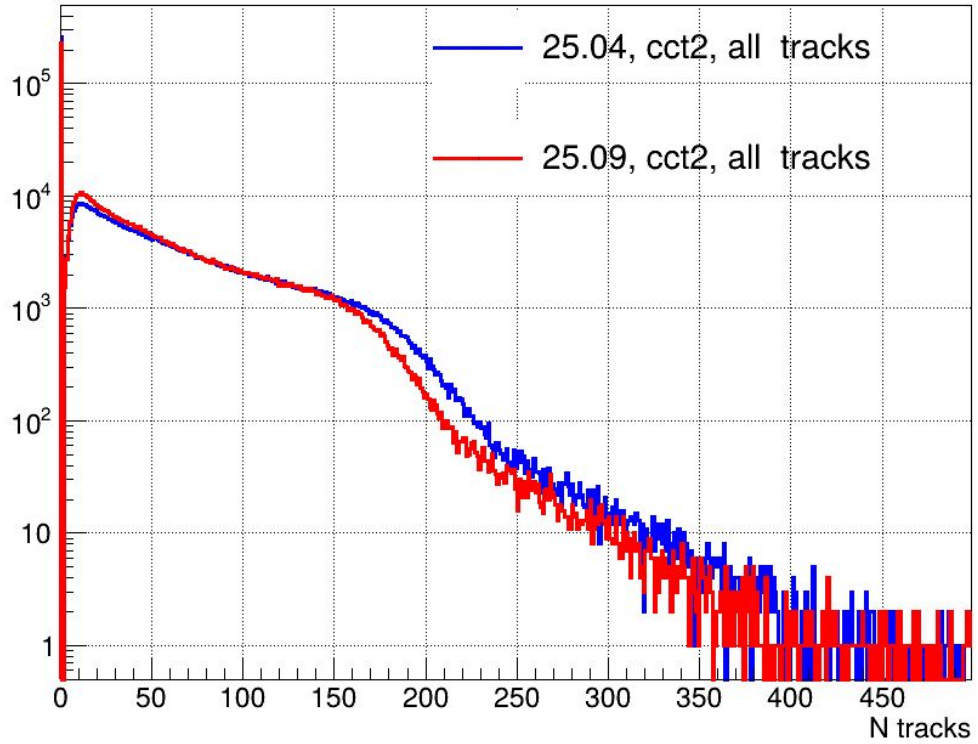


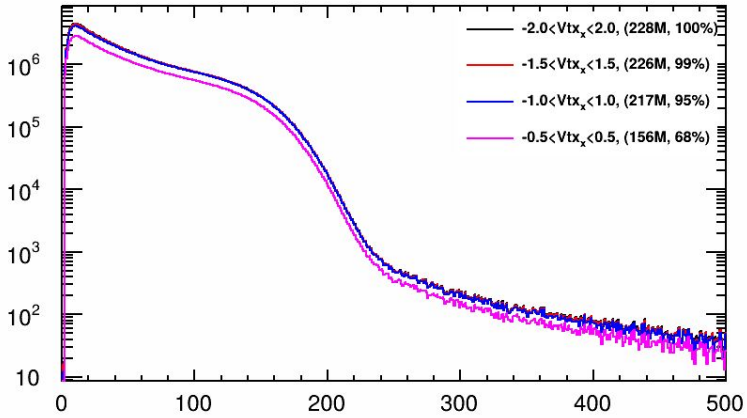


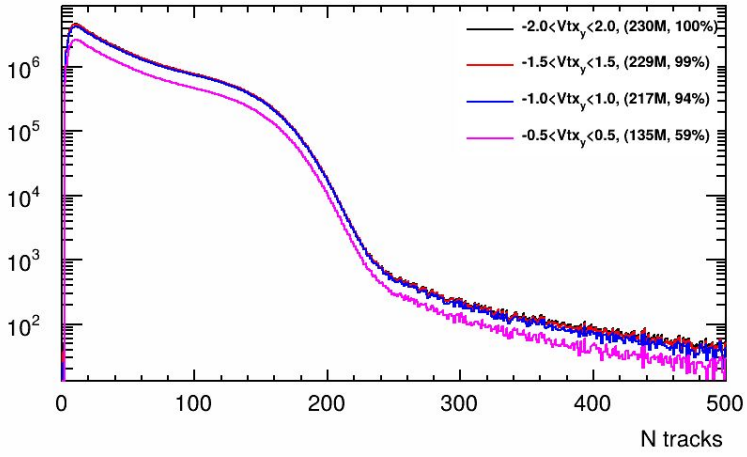


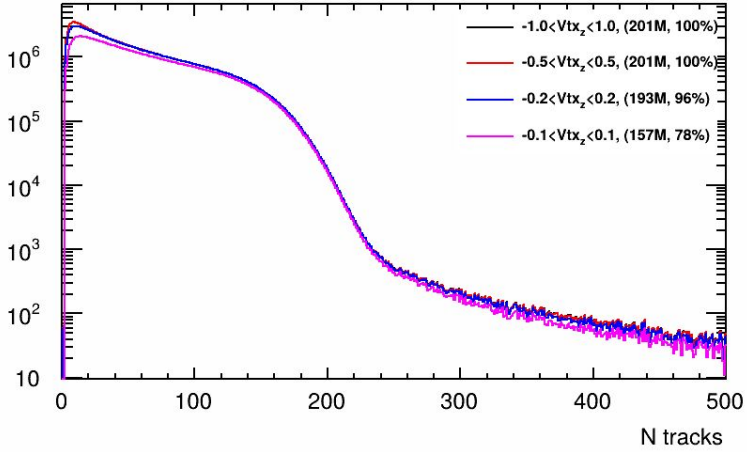

```
root [10] t->Draw("vtxZMpd>>s1(600,-200,100)","(triggerMapAR[0]&(1<<7))&&vtxNtracks>1&&vtxZ<0.1&&vtxZ>-0.1")
Info in <TCanvas::MakeDefCanvas>:  created default TCanvas with name c1
(long long) 312331
root [11] t->Draw("vtxZMpd>>s12(600,-200,100)","(triggerMapAR[0]&(1<<7))&&vtxNtracksMpd>1&&vtxZMpd<0.1&&vtxZMpd>-0.1","same")
(long long) 383014
root [12] t->Draw("vtxZMpd>>s1(600,-200,100)","(triggerMapAR[0]&(1<<7))&&vtxNtracks>2&&vtxZ<0.1&&vtxZ>-0.1")
Info in <TCanvas::MakeDefCanvas>:  created default TCanvas with name c1
(long long) 311579
```

All Tracks: CCT2

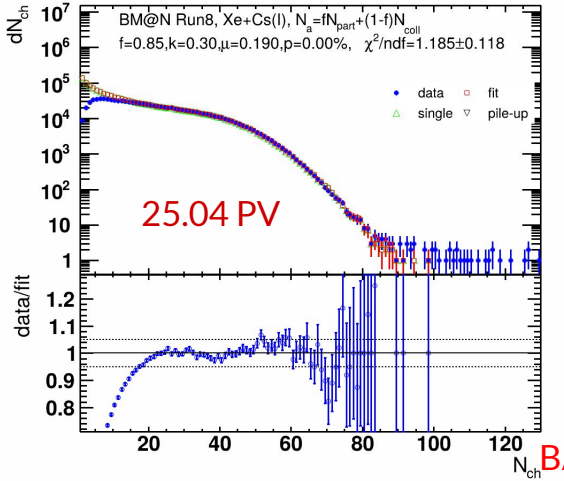


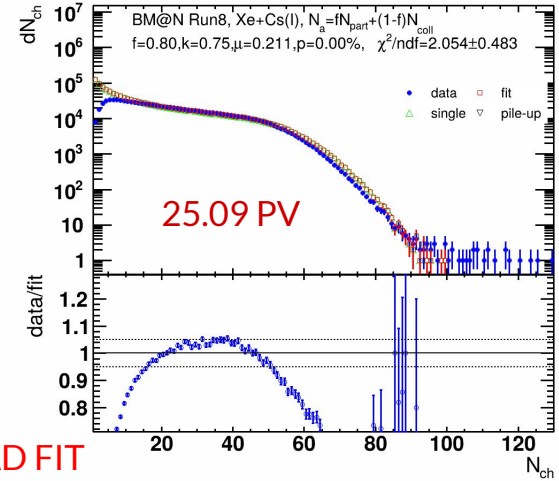

-2.0<Vtx$_x$<2.0, (228M, 100%)
-1.5<Vtx$_x$<1.5, (226M, 99%)
-1.0<Vtx$_x$<1.0, (217M, 95%)
-0.5<Vtx$_x$<0.5, (156M, 68%)
10^6
10^5
10^4
10^3
10^2
10
0
100
200
300
400
500


-2.0<Vtx$_y$<2.0, (230M, 100%)
-1.5<Vtx$_y$<1.5, (229M, 99%)
-1.0<Vtx$_y$<1.0, (217M, 94%)
-0.5<Vtx$_y$<0.5, (135M, 59%)
10^6
10^5
10^4
10^3
10^2
0
100
200
300
400
500
N tracks

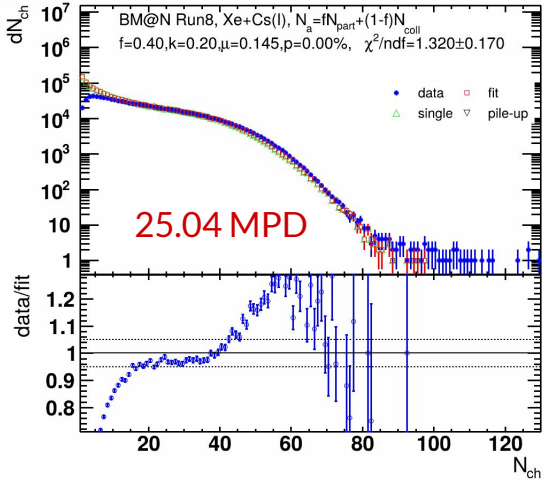

-1.0<Vtx$_z$<1.0, (201M, 100%)
-0.5<Vtx$_z$<0.5, (201M, 100%)
-0.2<Vtx$_z$<0.2, (193M, 96%)
-0.1<Vtx$_z$<0.1, (157M, 78%)
10^6
10^5
10^4
10^3
10^2
10
0
100
200
300
400
500
N tracks

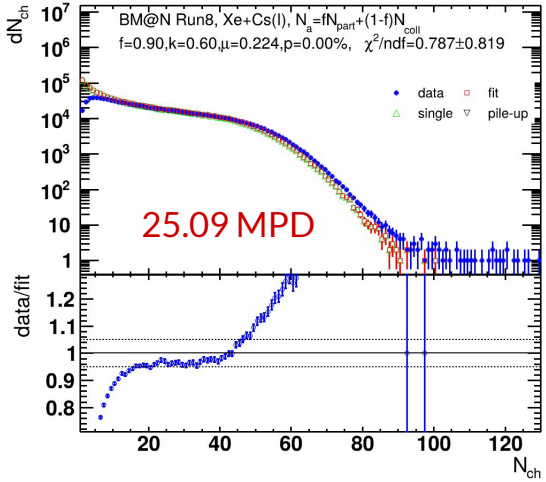
Run 7400-7450





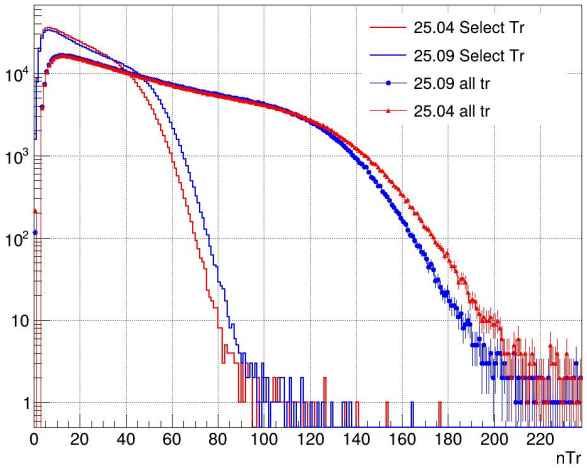
BAD FIT



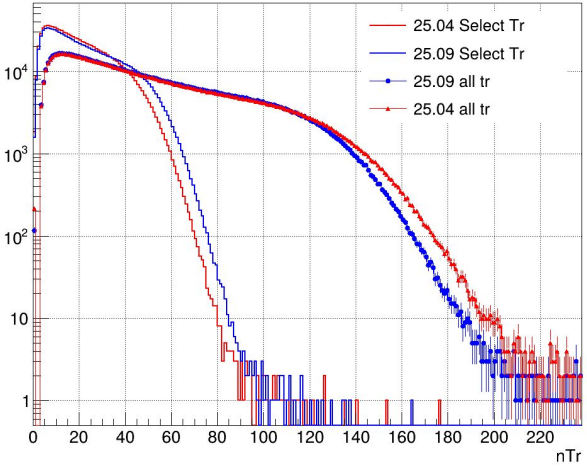


Selection

- nVtxTr>2
- plp
- VtxZ(PV or MPD)<0.1
- VtxR(PV or MPD)<1.0
- Tracks:
  - nHits>4
  - |eta|<3.0
  - $dca_{x,y}$<3
  - p_T>0.05

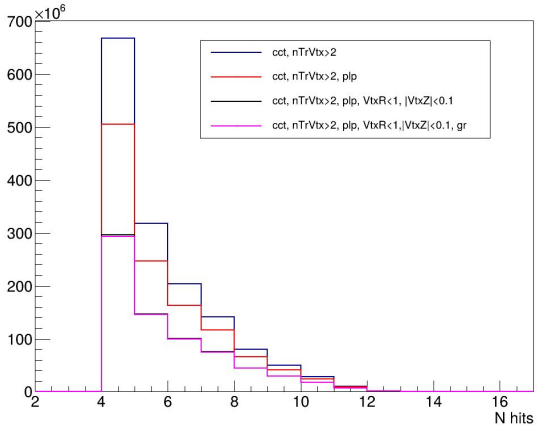


Run 7400-7450

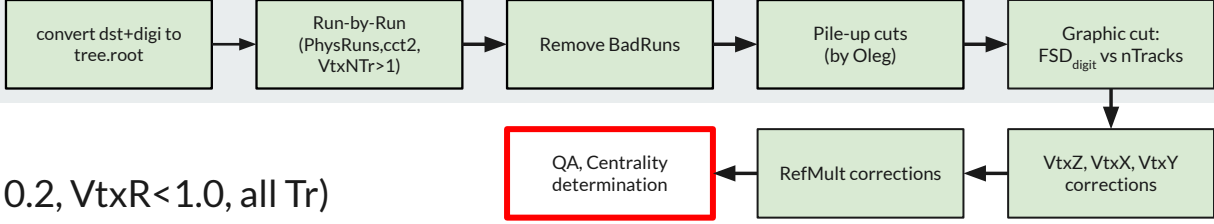


Selection

- nVtxTr>2
- plp
- VtxZ(PV or MPD)<0.1
- VtxR(PV or MPD)<1.0
- Tracks:
  - nHits>4
  - |eta|<3.0
  - $dca_{x,y}$<3
  - p_T>0.05



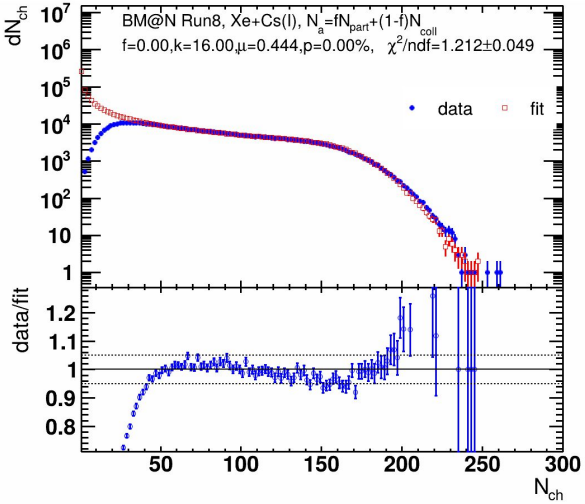
Run 8120-8170

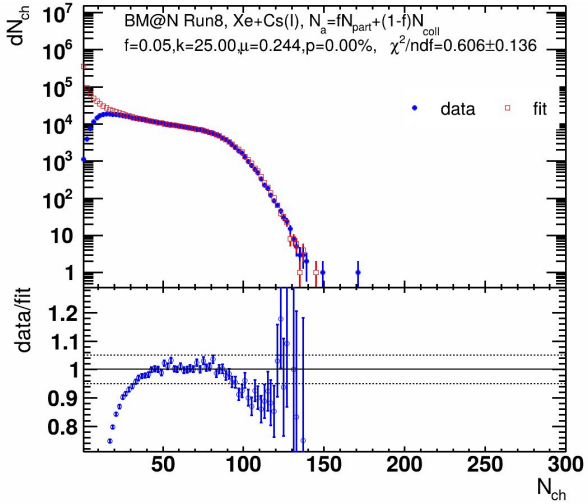


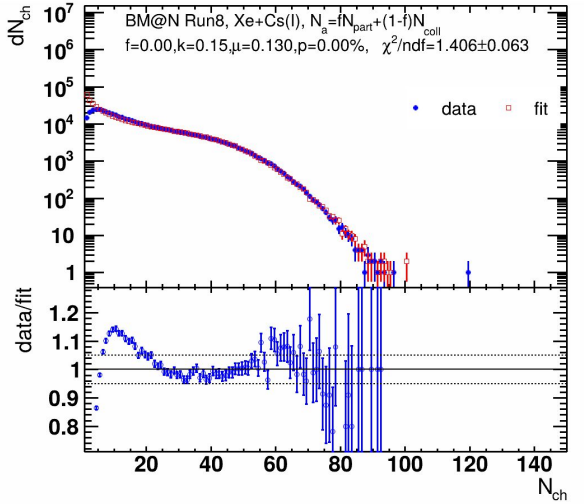
Set:

- def (nVtxTr>1, plp, plp gr, VtxZ<0.2, VtxR<1.0, all Tr)
- def + (|eta|<3.0)
- def + (ch<0)

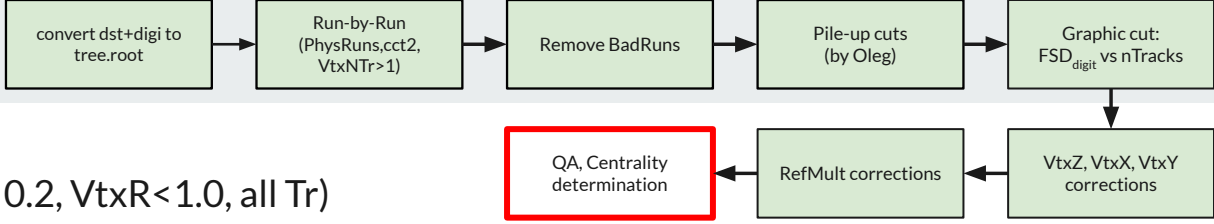
ch<0





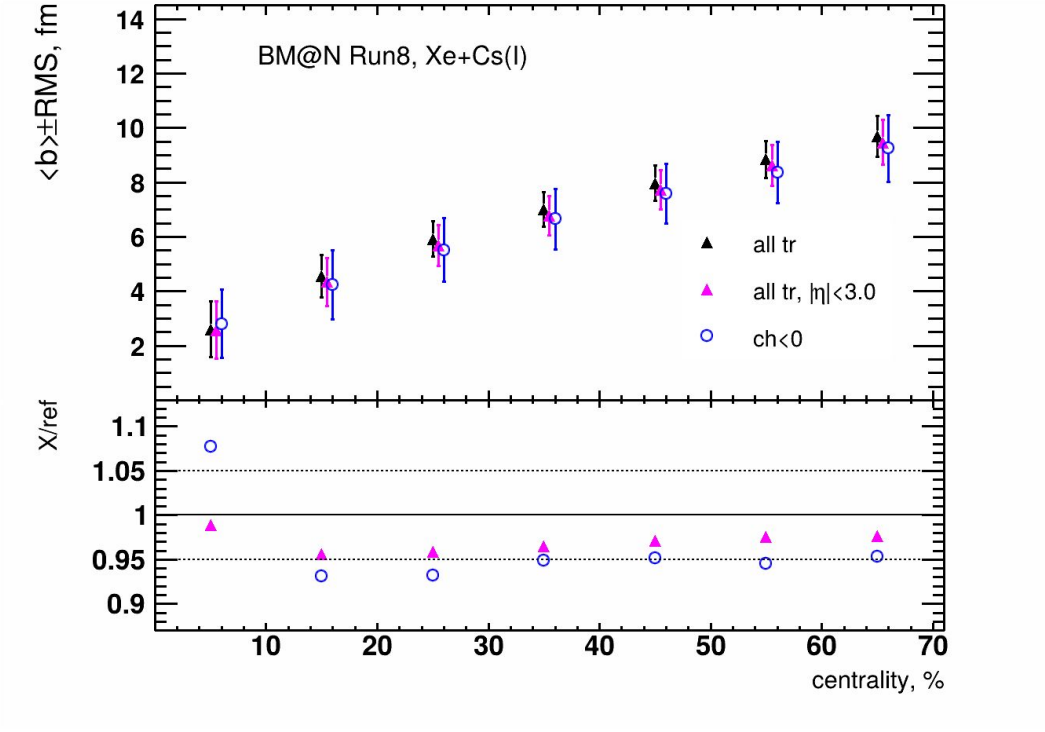


Run 8120-8170



Set:

- def (nVtxTr>1, plp, plp gr, VtxZ<0.2, VtxR<1.0, all Tr)
- def + (|eta|<3.0)
- def + (ch<0)

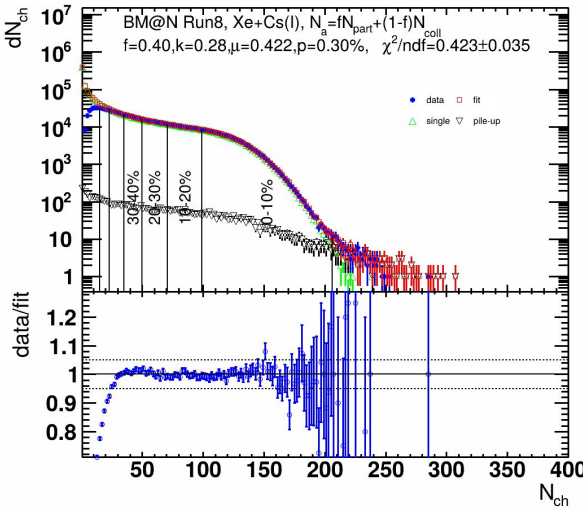


Run 7400-7450

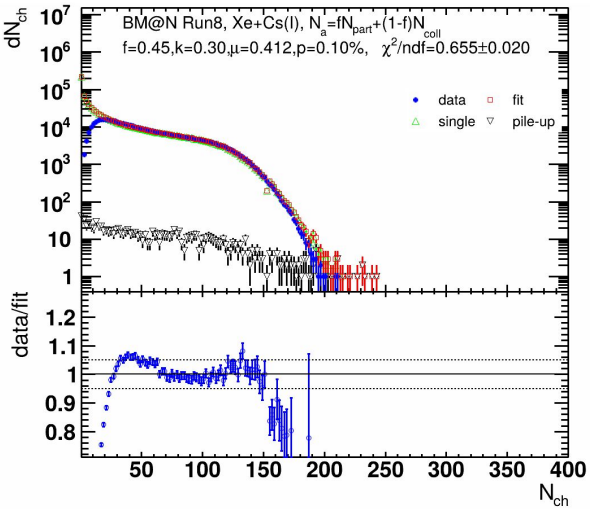
Set:

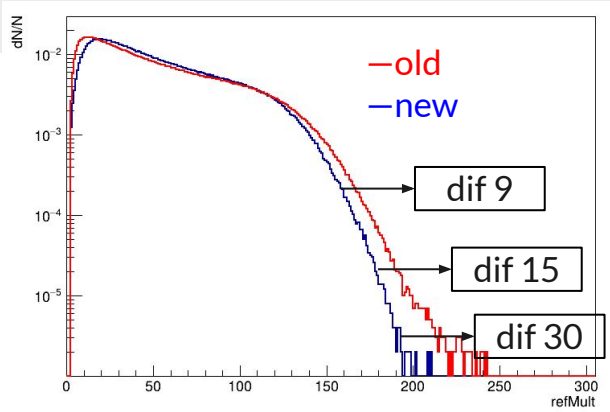
- 25.04 (nVtxTr>1, plp, VtxZ<0.1, VtxR<1.0, all Tr)
- 25.09 ($nVtxTr_{MPD}$>1, plp, $VtxZ_{MPD}$<0.1, $VtxR_{MPD}$<1.0, all Tr)

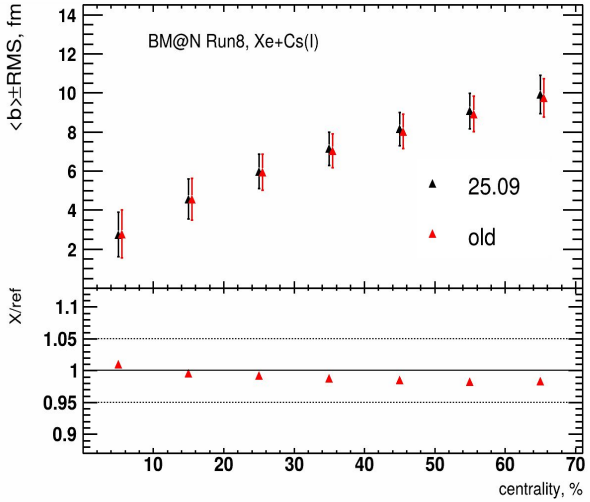
Old



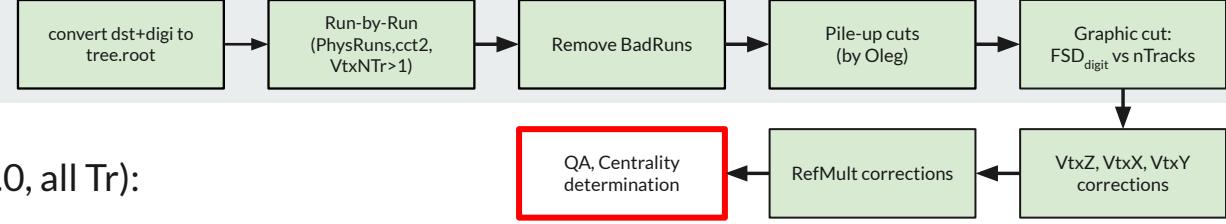
New







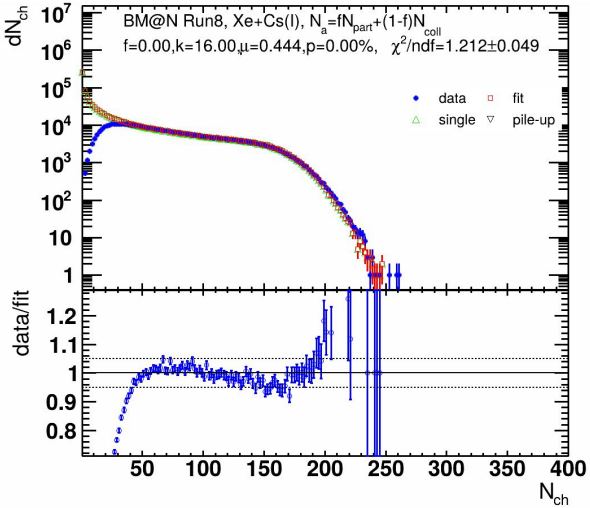
Diff Run Id



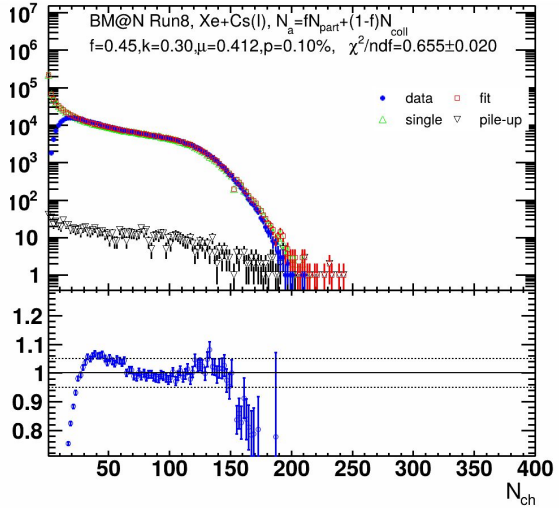
Set (nVtxTr>1, plp, VtxZ<0.1, VtxR<1.0, all Tr):

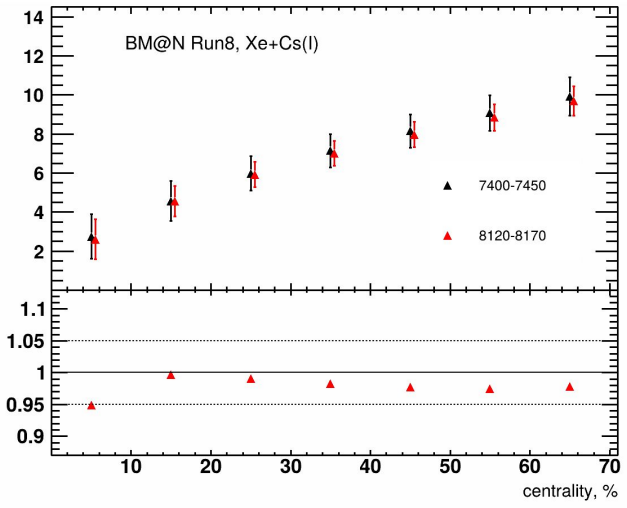
- 7400-7450
- 8120-8170

8120-8170

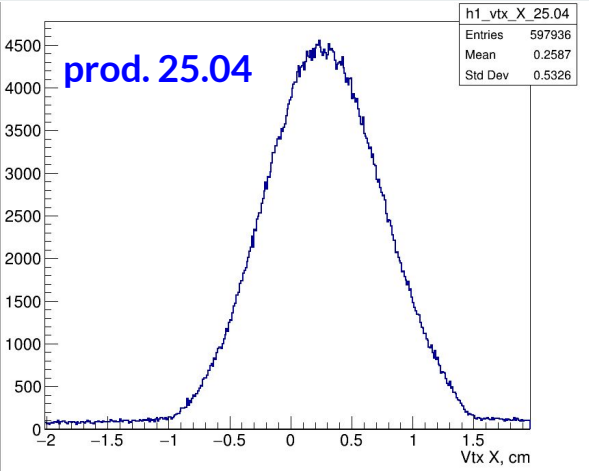


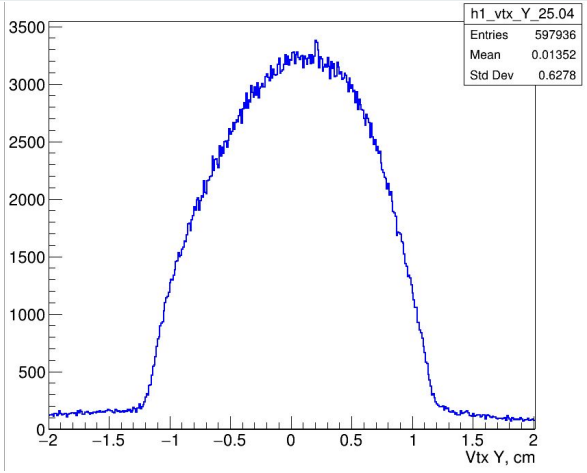
7400-7450

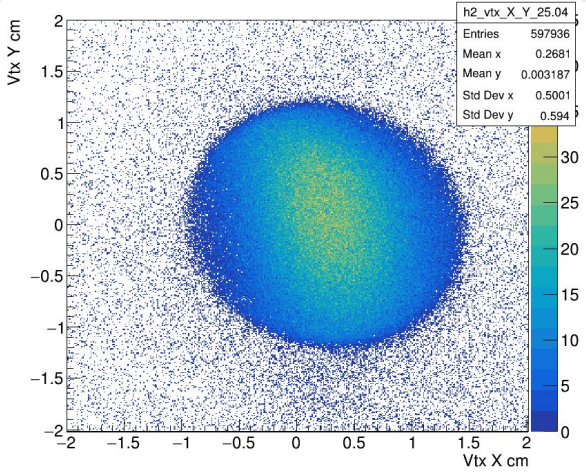


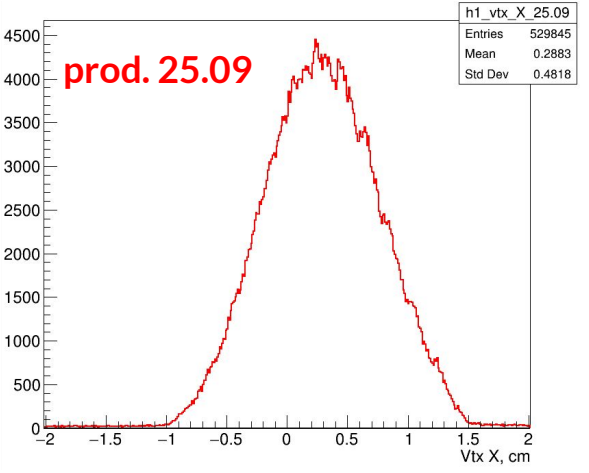


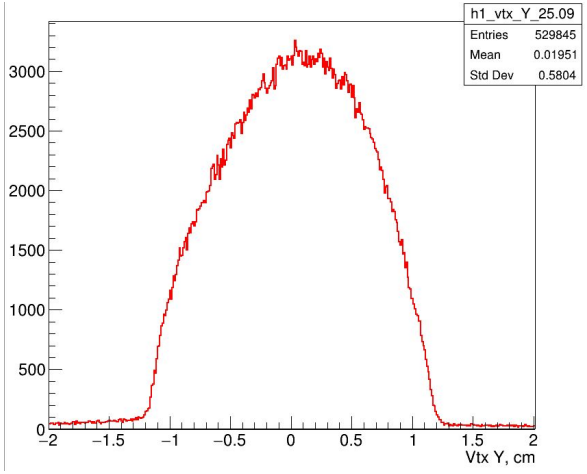
Mpd Vertex X, Y (CCT2, nVtxTr>1, |VtxZ|<2, Run 8005)

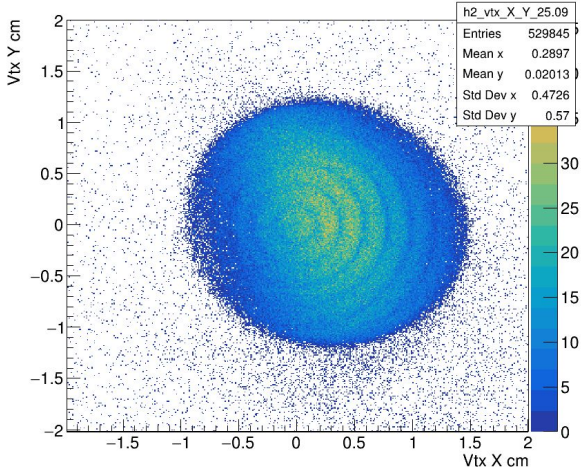




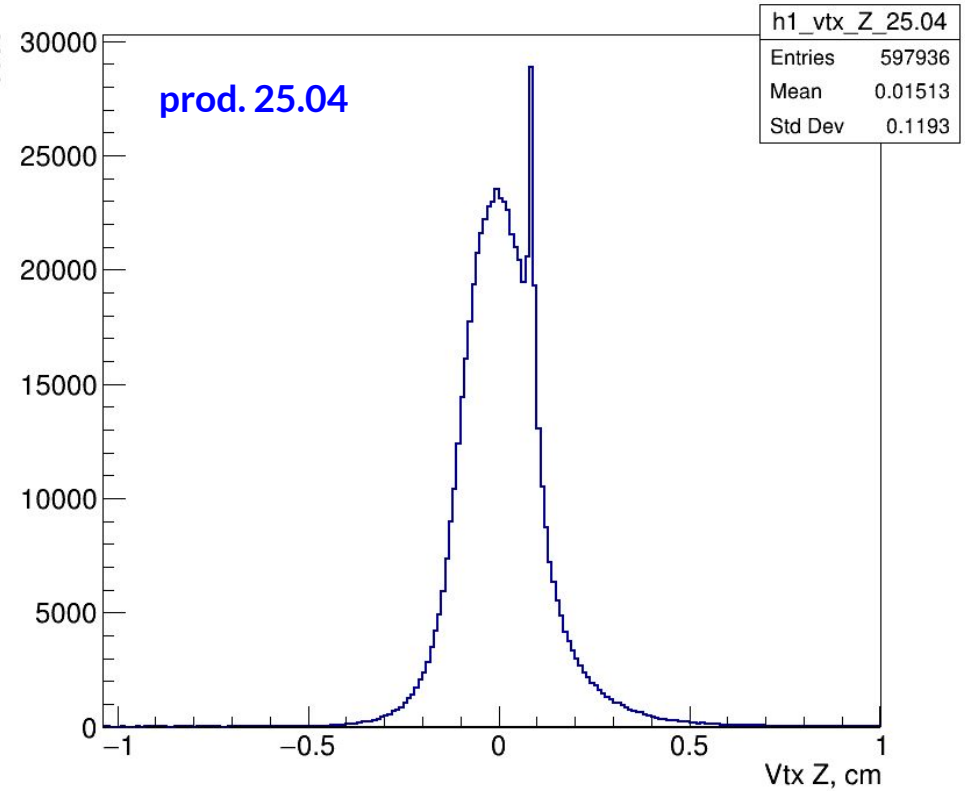


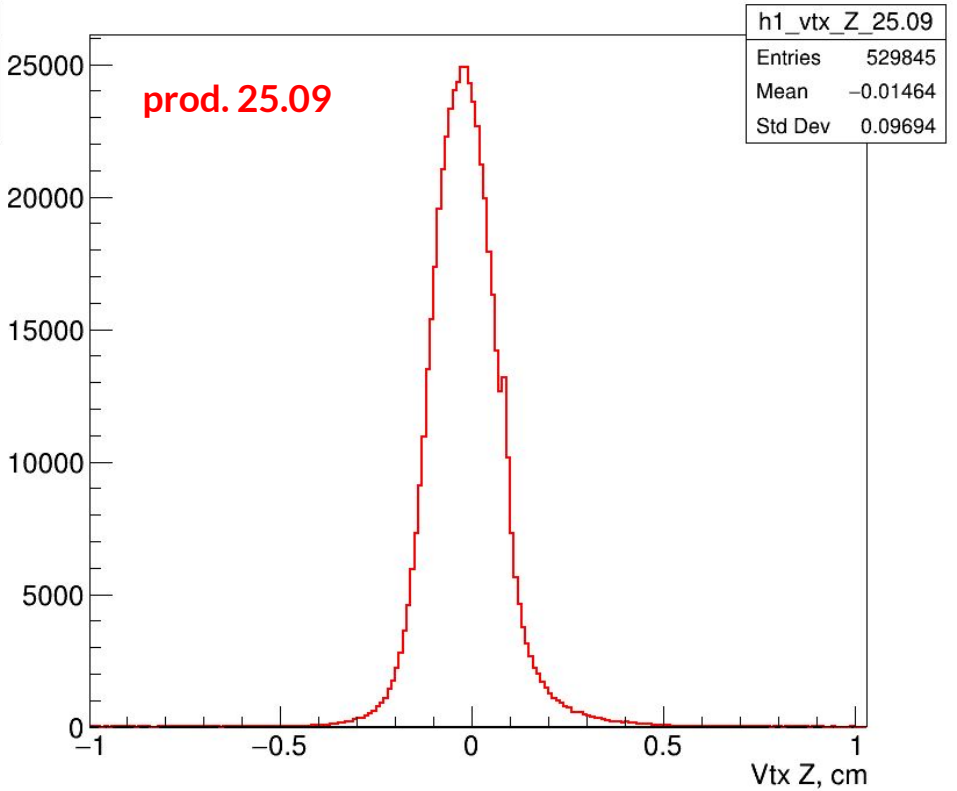






Mpd Vertex Z (CCT2, nVtxTr>1, |VtxZ|<2 Run 8005)





/nica/mpd1/demanov/qa/run8_vtx_comp_2504_2509