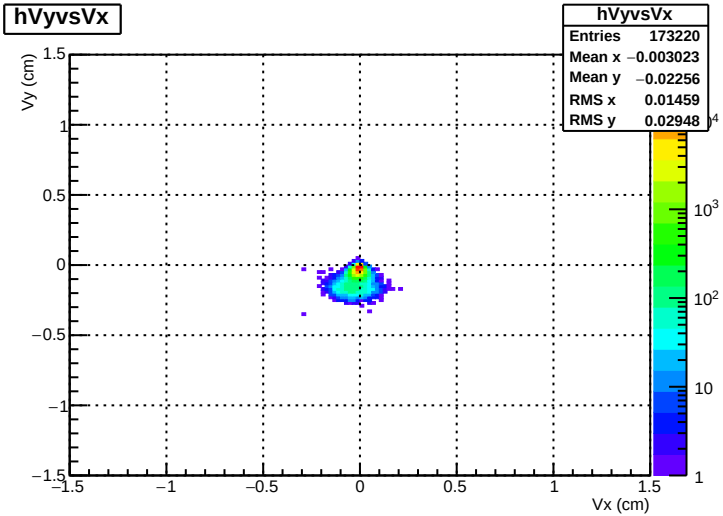
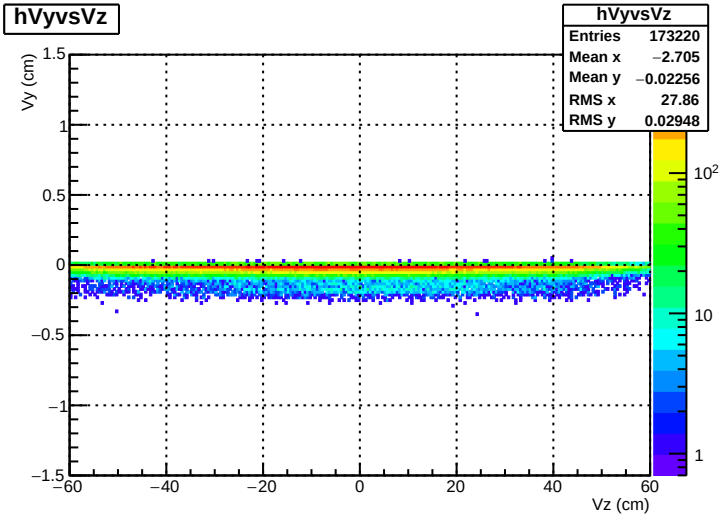
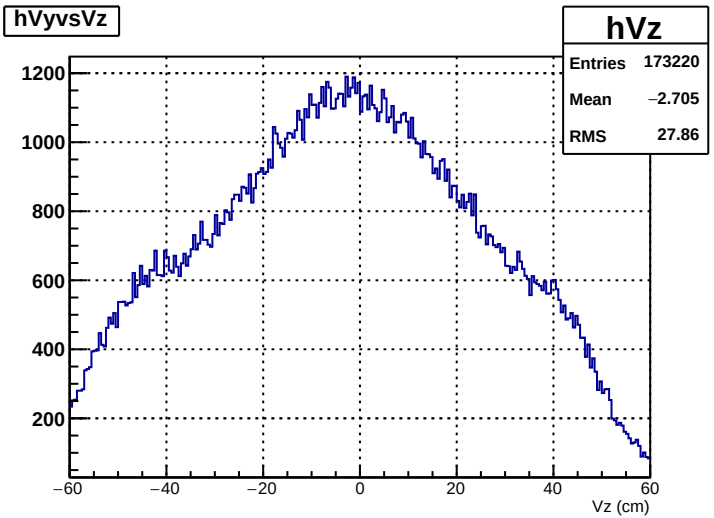
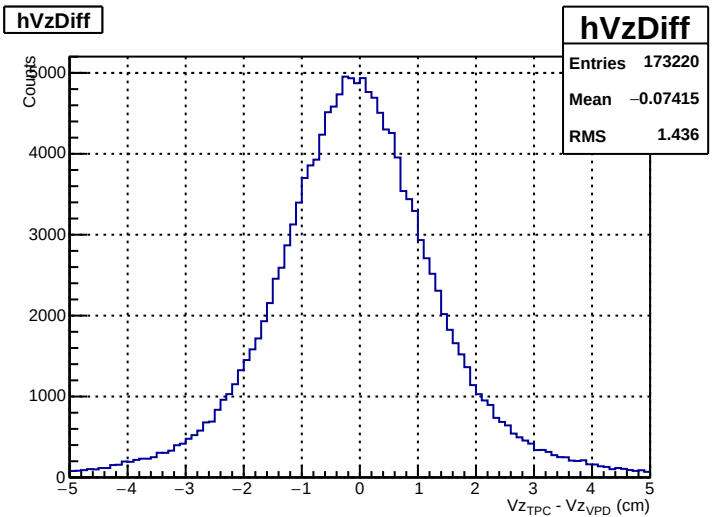
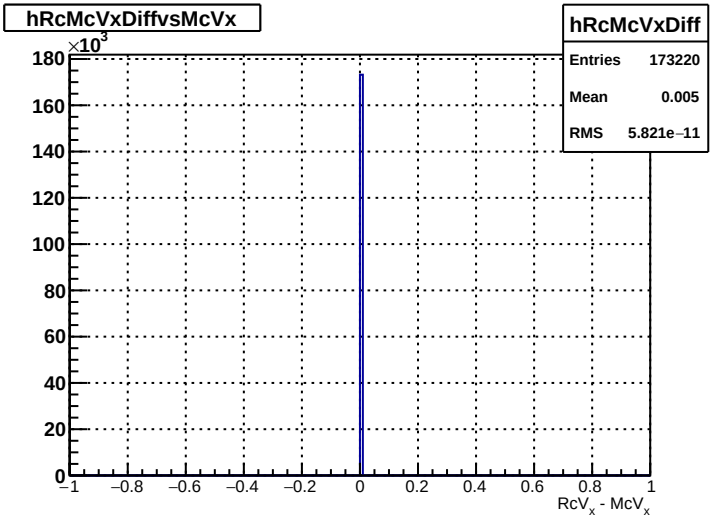
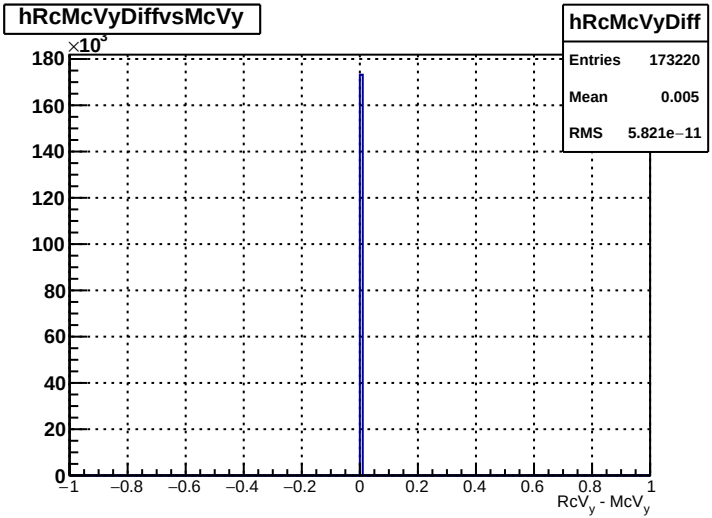

hVyvsVx
hVyvsVx
Entries 173220
Mean x −0.003023
Mean y −0.02256
RMS x 0.01459
RMS y 0.02948
Vy (cm)
Vx (cm)

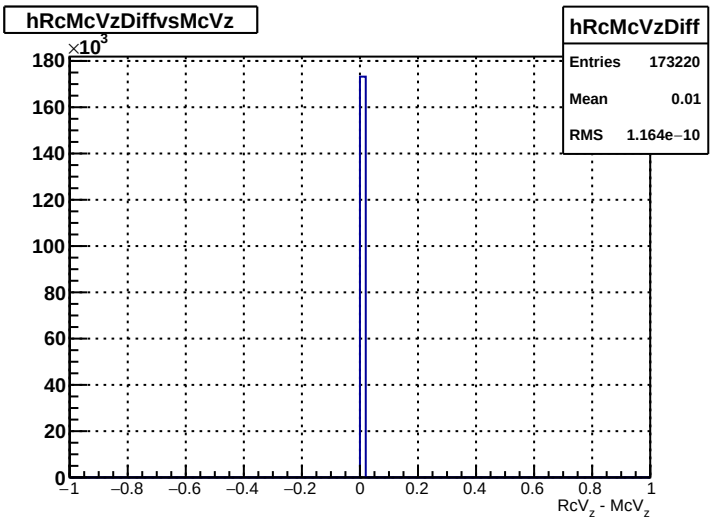

hVyvsVz
hVyvsVz
Entries 173220
Mean x −2.705
Mean y −0.02256
RMS x 27.86
RMS y 0.02948
Vy (cm)
Vz (cm)

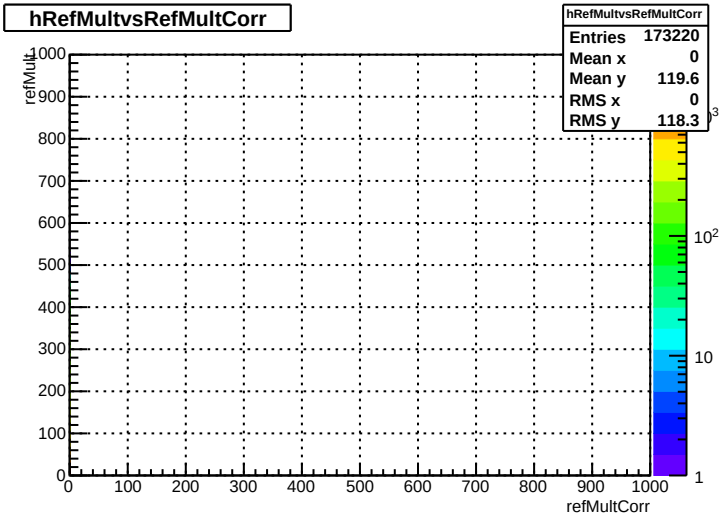

hVyvsVz
hVz
Entries 173220
Mean −2.705
RMS 27.86
Vz (cm)

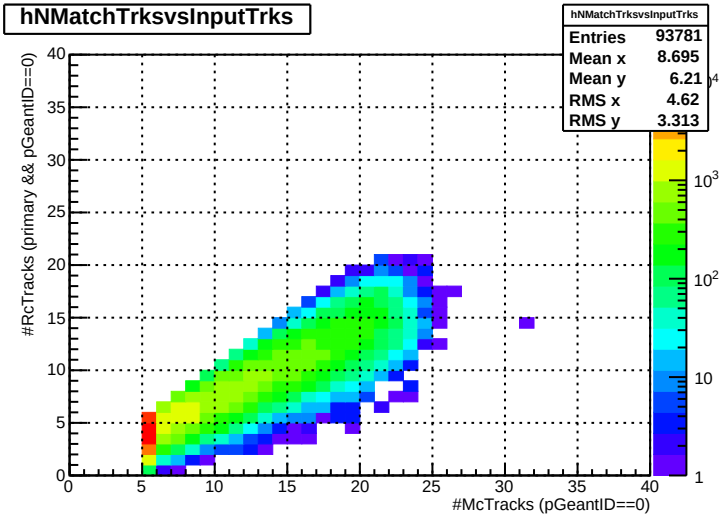

hVzDiff
hVzDiff
Entries 173220
Mean −0.07415
RMS 1.436
Counts
Vz_TPC - Vz_VPD (cm)

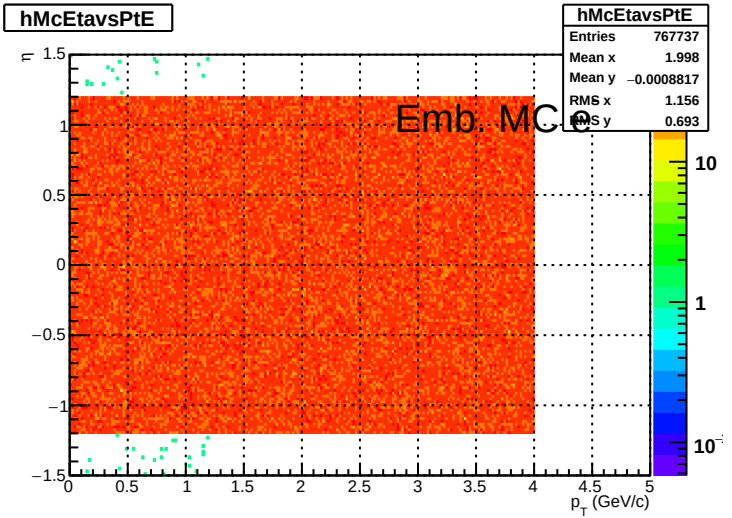

hRcMcVxDiffvsMcVx
hRcMcVxDiff
Entries 173220
Mean 0.005
RMS 5.821e−11
×10^3
RcV_x - McV_x

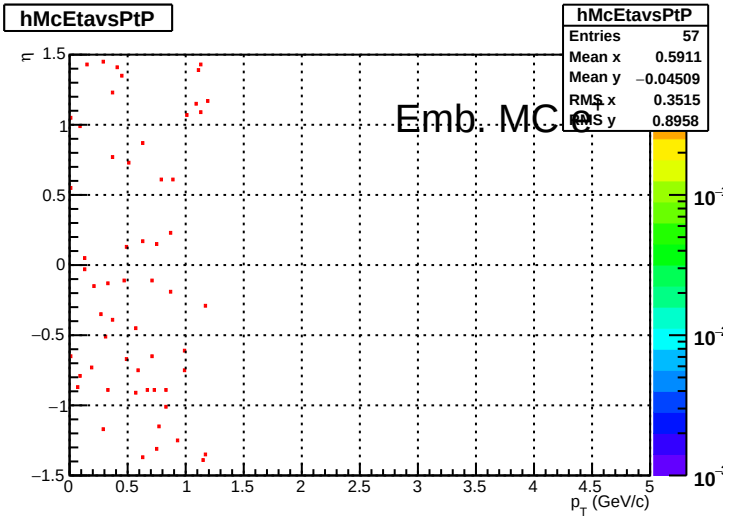

hRcMcVyDiffvsMcVy
hRcMcVyDiff
Entries 173220
Mean 0.005
RMS 5.821e−11
×10^3
RcV_y - McV_y

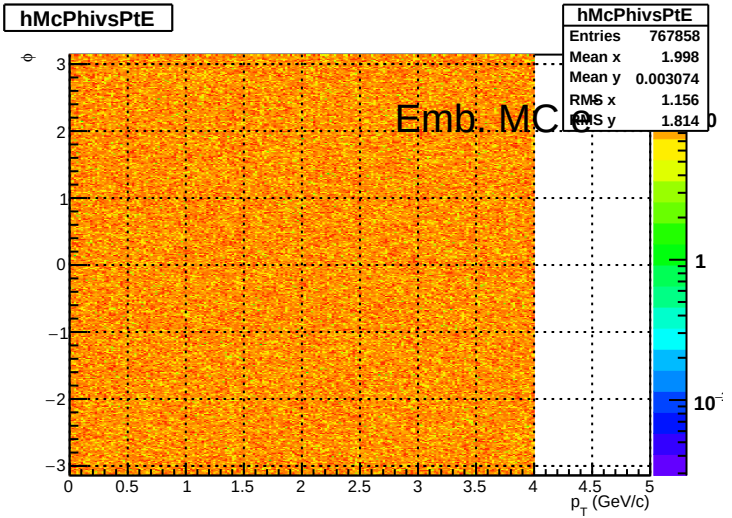

hRcMcVzDiffvsMcVz
hRcMcVzDiff
Entries 173220
Mean 0.01
RMS 1.164e−10
×10^3
RcV_z - McV_z

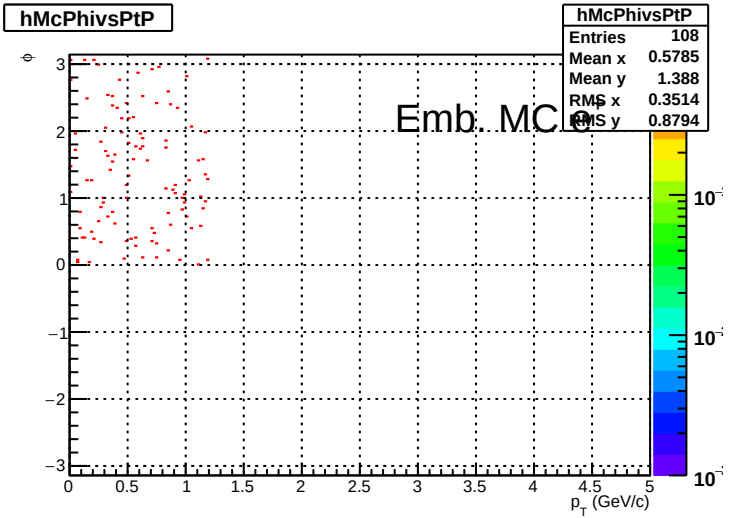

hRefMultvsRefMultCorr
hRefMultvsRefMultCorr
Entries 173220
Mean x 0
Mean y 119.6
RMS x 0
RMS y 118.3
refMult
refMultCorr

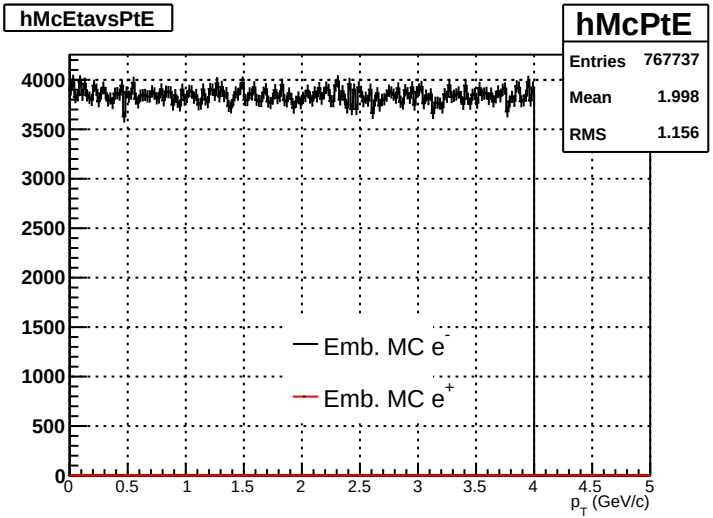

hNMatchTrksvsInputTrks
hNMatchTrksvsInputTrks
Entries 93781
Mean x 8.695
Mean y 6.21
RMS x 4.62
RMS y 3.313
#RcTracks (primary && pGeantID==0)
#McTracks (pGeantID==0)

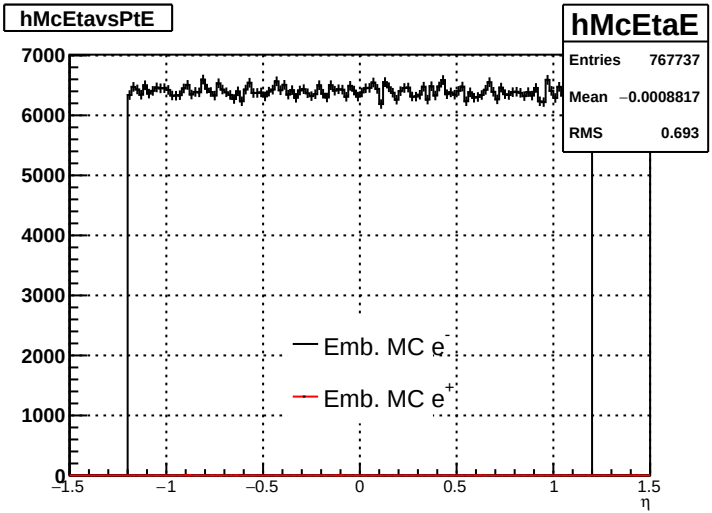

hMcEtavsPtE
hMcEtavsPtE
Entries 767737
Mean x 1.998
Mean y −0.0008817
RMS x 1.156
RMS y 0.693
Emb. MC
η
p_T (GeV/c)

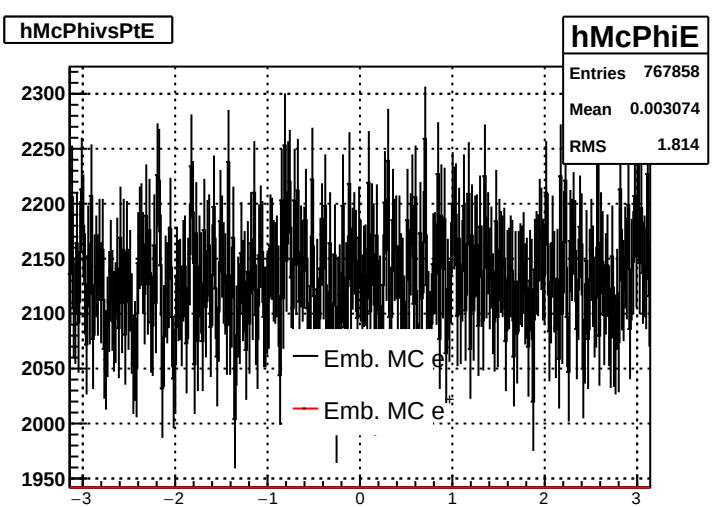

hMcEtavsPtP
hMcEtavsPtP
Entries 57
Mean x 0.5911
Mean y −0.04509
RMS x 0.3515
RMS y 0.8958
Emb. MC
η
p_T (GeV/c)


hMcPhivsPtE
hMcPhivsPtE
Entries 767858
Mean x 1.998
Mean y 0.003074
RMS x 1.156
RMS y 1.814
Emb. MC
φ
p_T (GeV/c)


hMcPhivsPtP
hMcPhivsPtP
Entries 108
Mean x 0.5785
Mean y 1.388
RMS x 0.3514
RMS y 0.8794
Emb. MC
φ
p_T (GeV/c)


hMcEtavsPtE
hMcPtE
Entries 767737
Mean 1.998
RMS 1.156
Emb. MC e-
Emb. MC e+
pT (GeV/c)


hMcEtavsPtE
hMcEtaE
Entries 767737
Mean −0.0008817
RMS 0.693
Emb. MC e-
Emb. MC e+
η


hMcPhivsPtE
hMcPhiE
Entries 767858
Mean 0.003074
RMS 1.814
Emb. MC e-
Emb. MC e+
ϕ

Compare Embedded Electron and Positron with Data

Event Level Cuts:

$|V_x| > 0 \;\|\; |V_y| > 0 \;\|\; |V_z| > 0$

$\sqrt{V_x^2+V_y^2} < 2.0$ cm

$|V_z| < 30.0$ cm

$|VpdV_z - TpcV_z| < 3.0$ cm

Track Level Cuts:

$p_T >= 0.2$ GeV/c nHitsFit >= 15 nHitsDedx >= 15

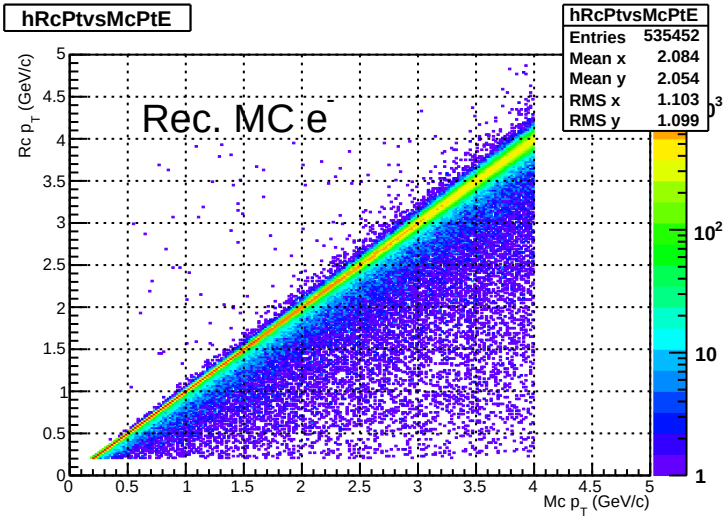
$|\eta| <= 1.0$ ratio >= 0.52 dca <= 2.5 cm

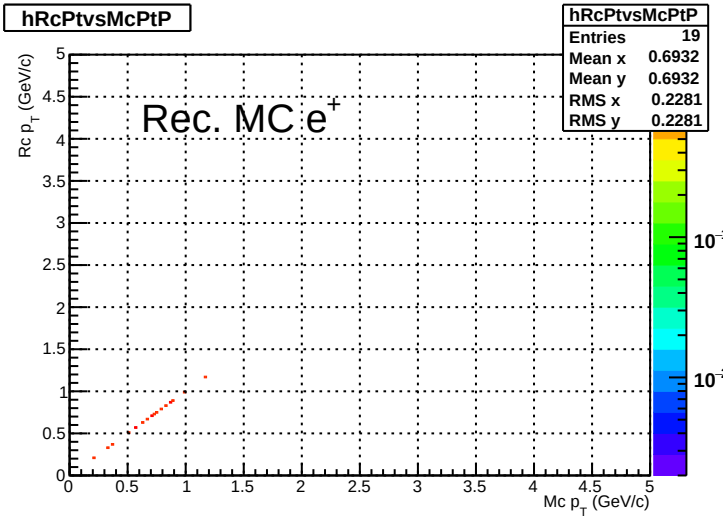
Data:

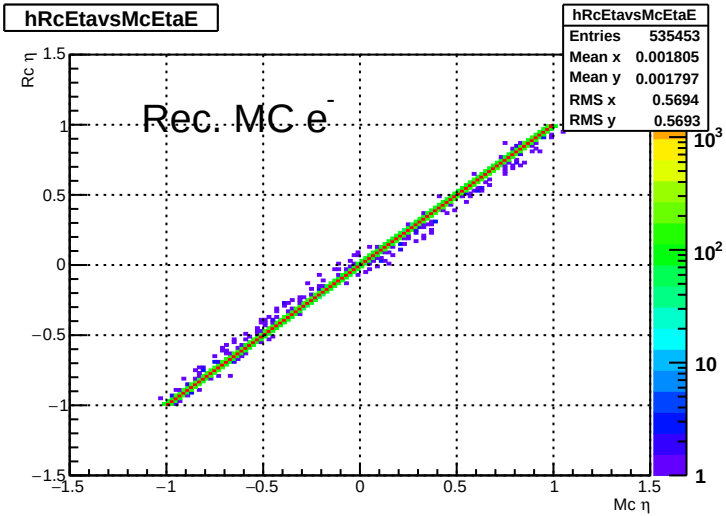
For e: $|n\sigma_e| <= 2.0$ $|1-1/\beta| <= 0.025$

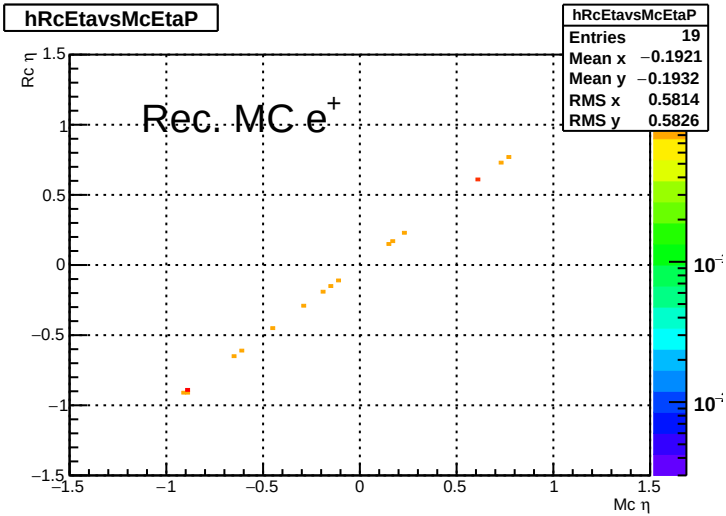
For π: $|n\sigma_\pi| <= 2.0$ $|m_\pi^2 - 0.019| <= 0.003$

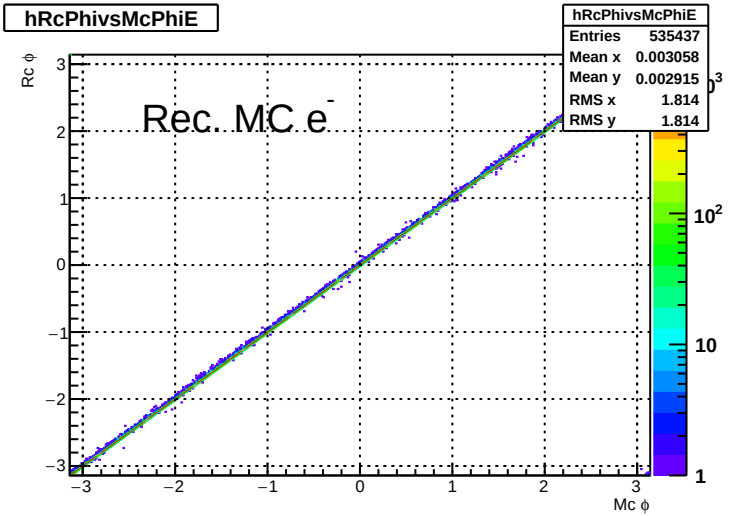
Embedding: parent GeantId == 0 $|\eta| <= 1.0$

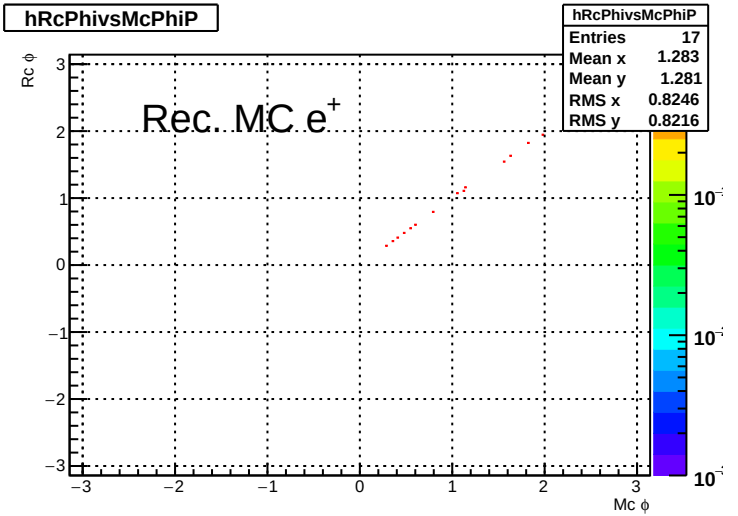

hRcPtvsMcPtE
hRcPtvsMcPtE
Entries 535452
Mean x 2.084
Mean y 2.054
RMS x 1.103
RMS y 1.099
Rec. MC e-
Rc p_T (GeV/c)
Mc p_T (GeV/c)

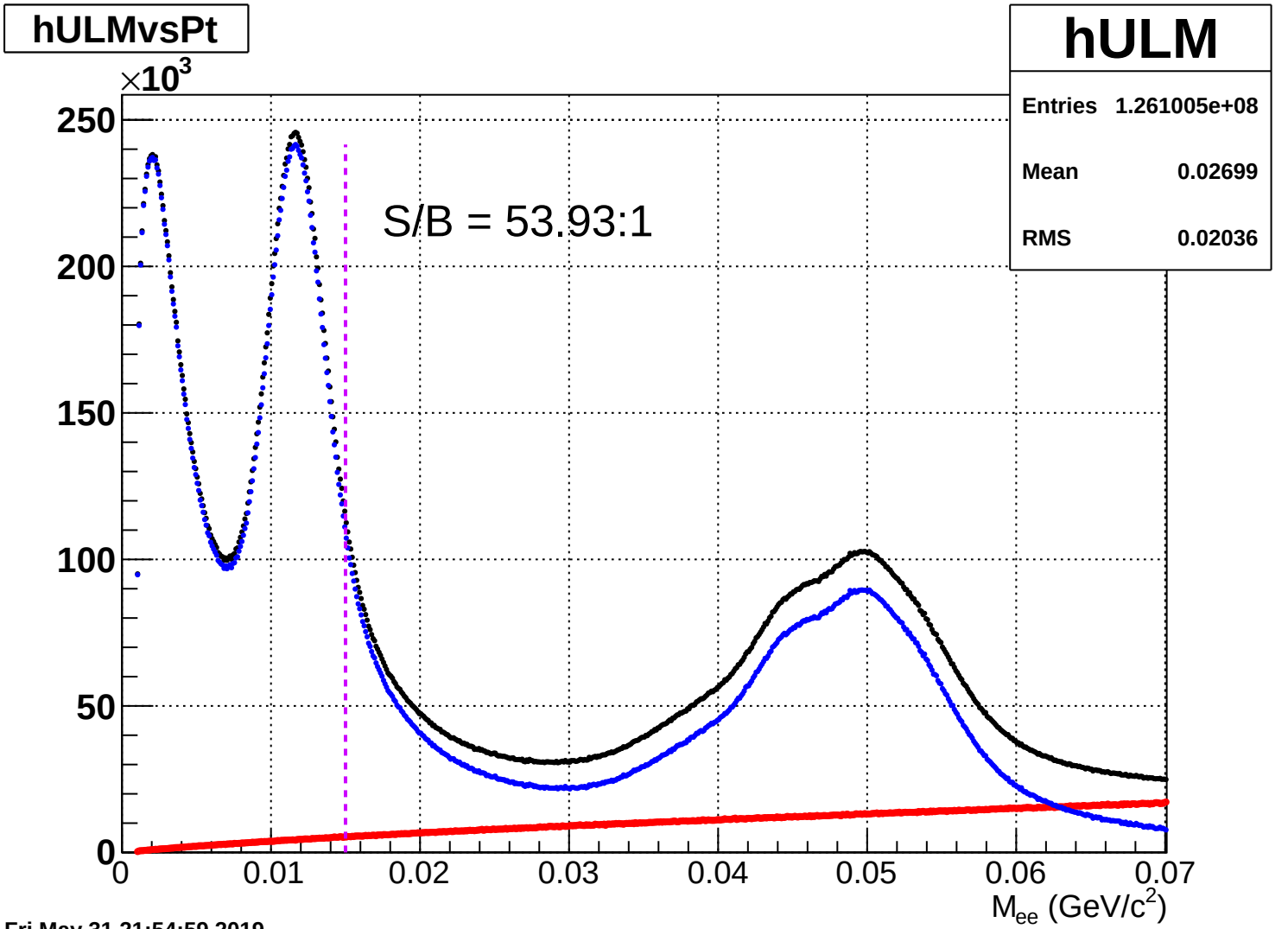

hRcPtvsMcPtP
hRcPtvsMcPtP
Entries 19
Mean x 0.6932
Mean y 0.6932
RMS x 0.2281
RMS y 0.2281
Rec. MC e+
Rc p_T (GeV/c)
Mc p_T (GeV/c)

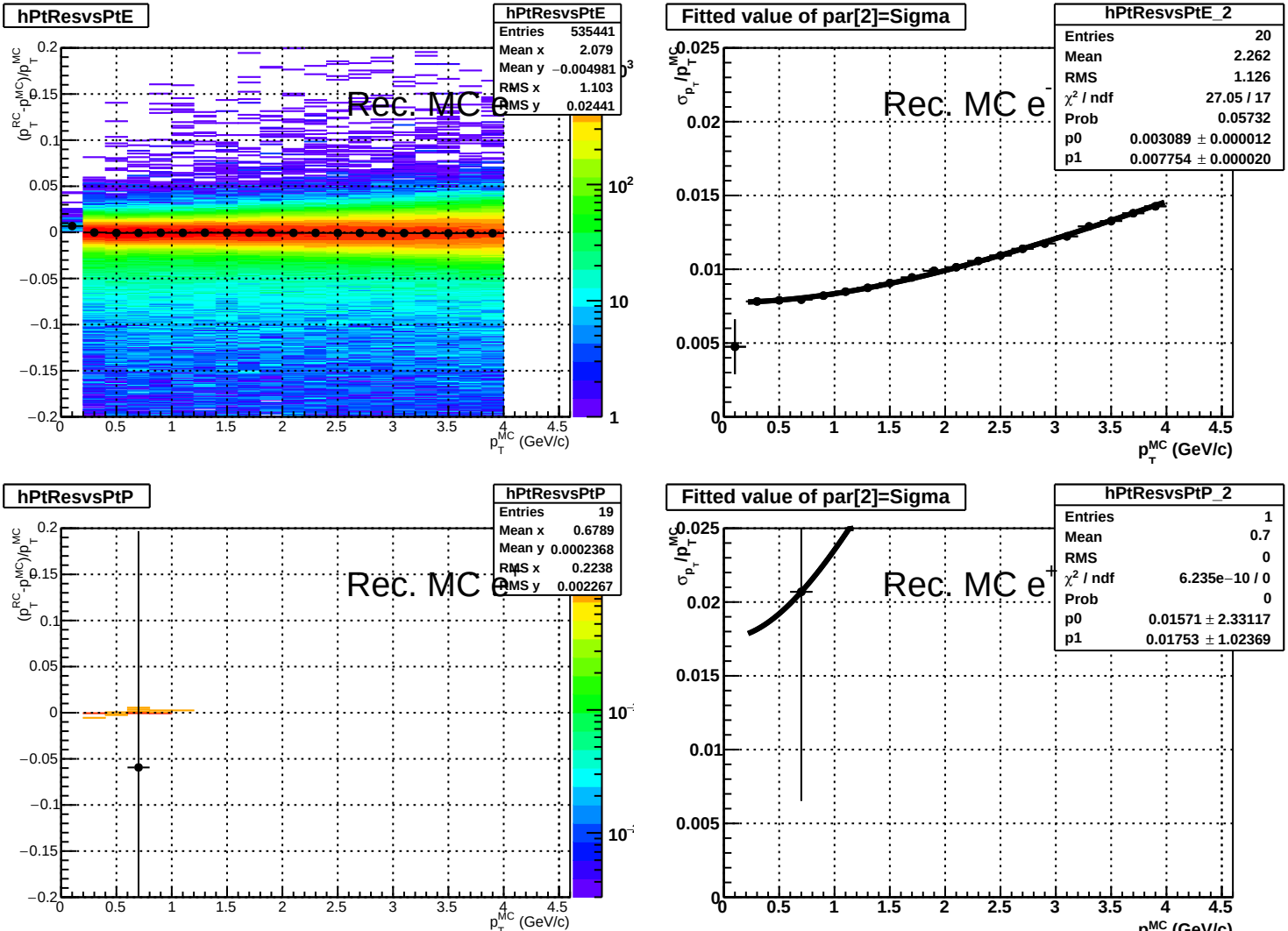

hRcEtavsMcEtaE
hRcEtavsMcEtaE
Entries 535453
Mean x 0.001805
Mean y 0.001797
RMS x 0.5694
RMS y 0.5693
Rec. MC e-
Rc η
Mc η

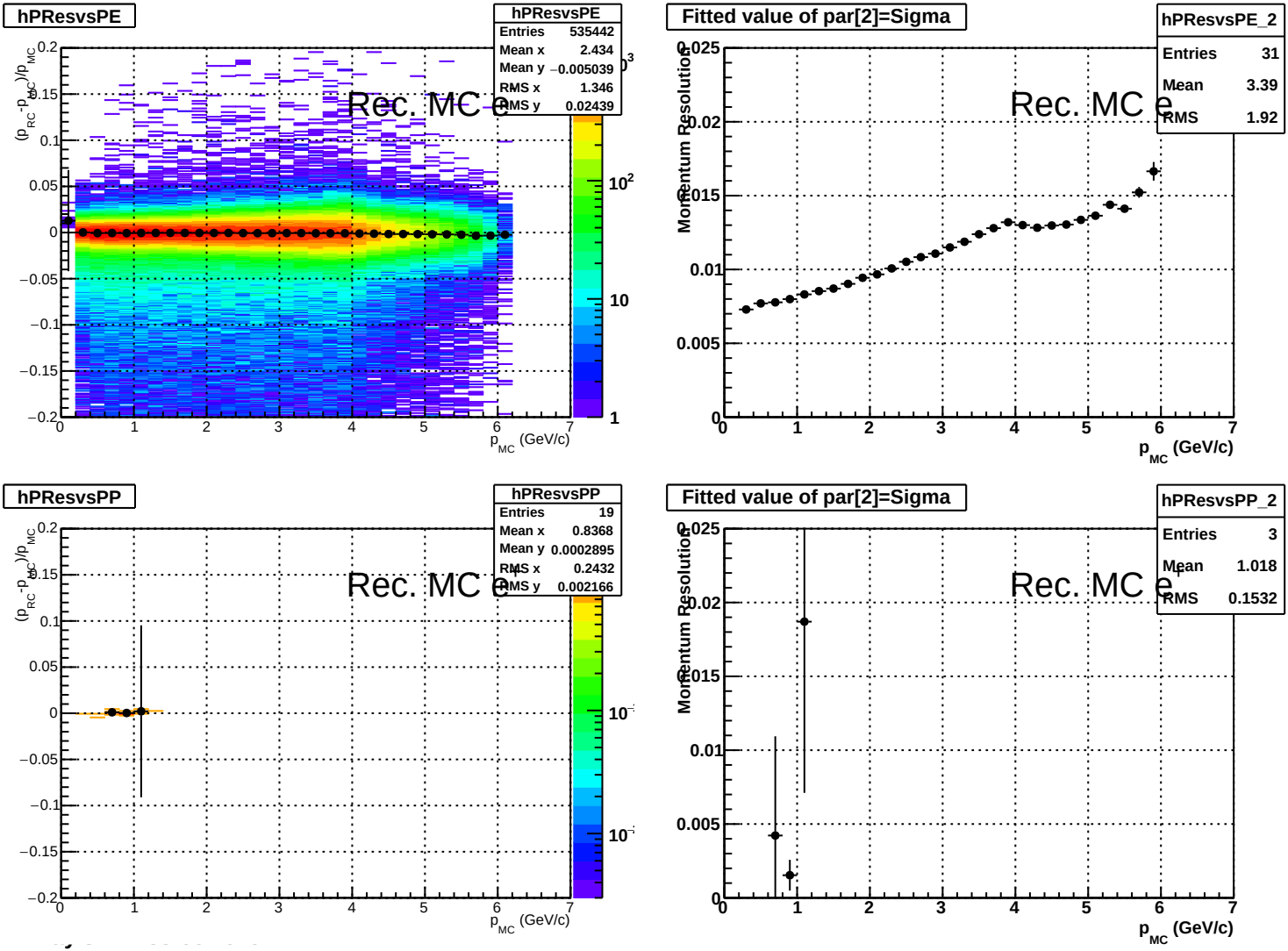

hRcEtavsMcEtaP
hRcEtavsMcEtaP
Entries 19
Mean x −0.1921
Mean y −0.1932
RMS x 0.5814
RMS y 0.5826
Rec. MC e+
Rc η
Mc η

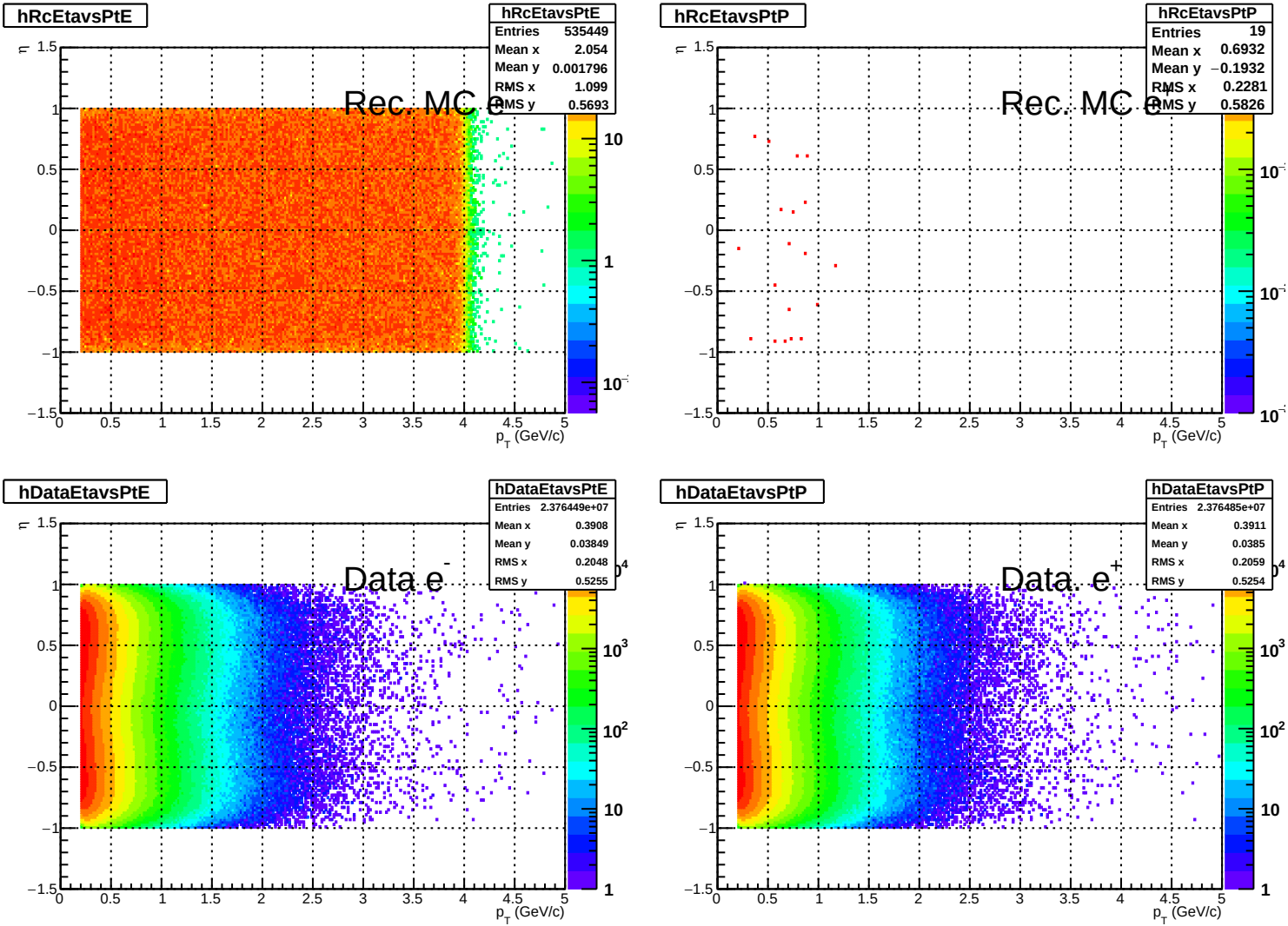

hRcPhivsMcPhiE
hRcPhivsMcPhiE
Entries 535437
Mean x 0.003058
Mean y 0.002915
RMS x 1.814
RMS y 1.814
Rec. MC e-
Rc ϕ
Mc ϕ

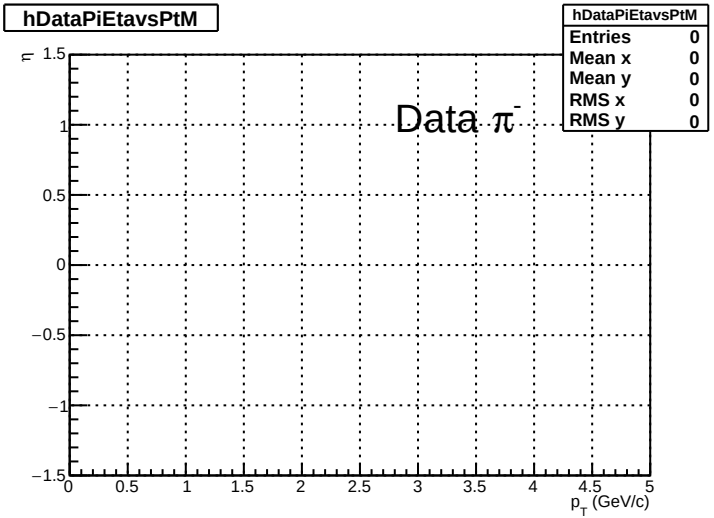

hRcPhivsMcPhiP
hRcPhivsMcPhiP
Entries 17
Mean x 1.283
Mean y 1.281
RMS x 0.8246
RMS y 0.8216
Rec. MC e+
Rc ϕ
Mc ϕ

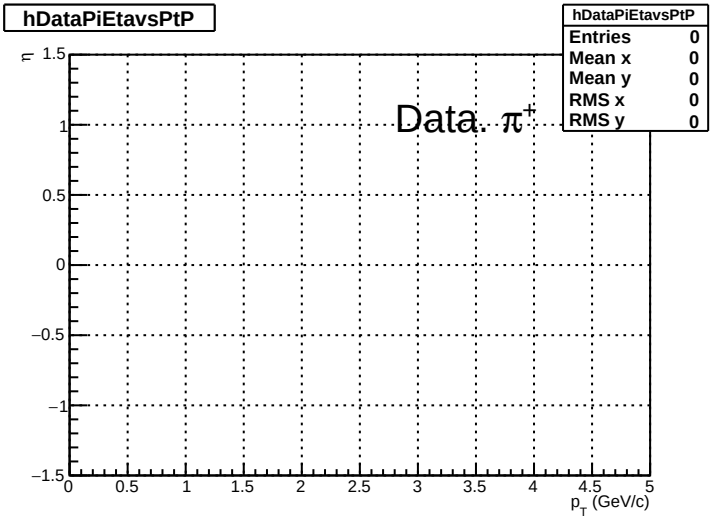

hULMvsPt
hULM
Entries 1.261005e+08
Mean 0.02699
RMS 0.02036
S/B = 53.93:1
×10^3
250
200
150
100
50
0
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
M_ee (GeV/c^2)
Fri May 31 21:54:59 2019

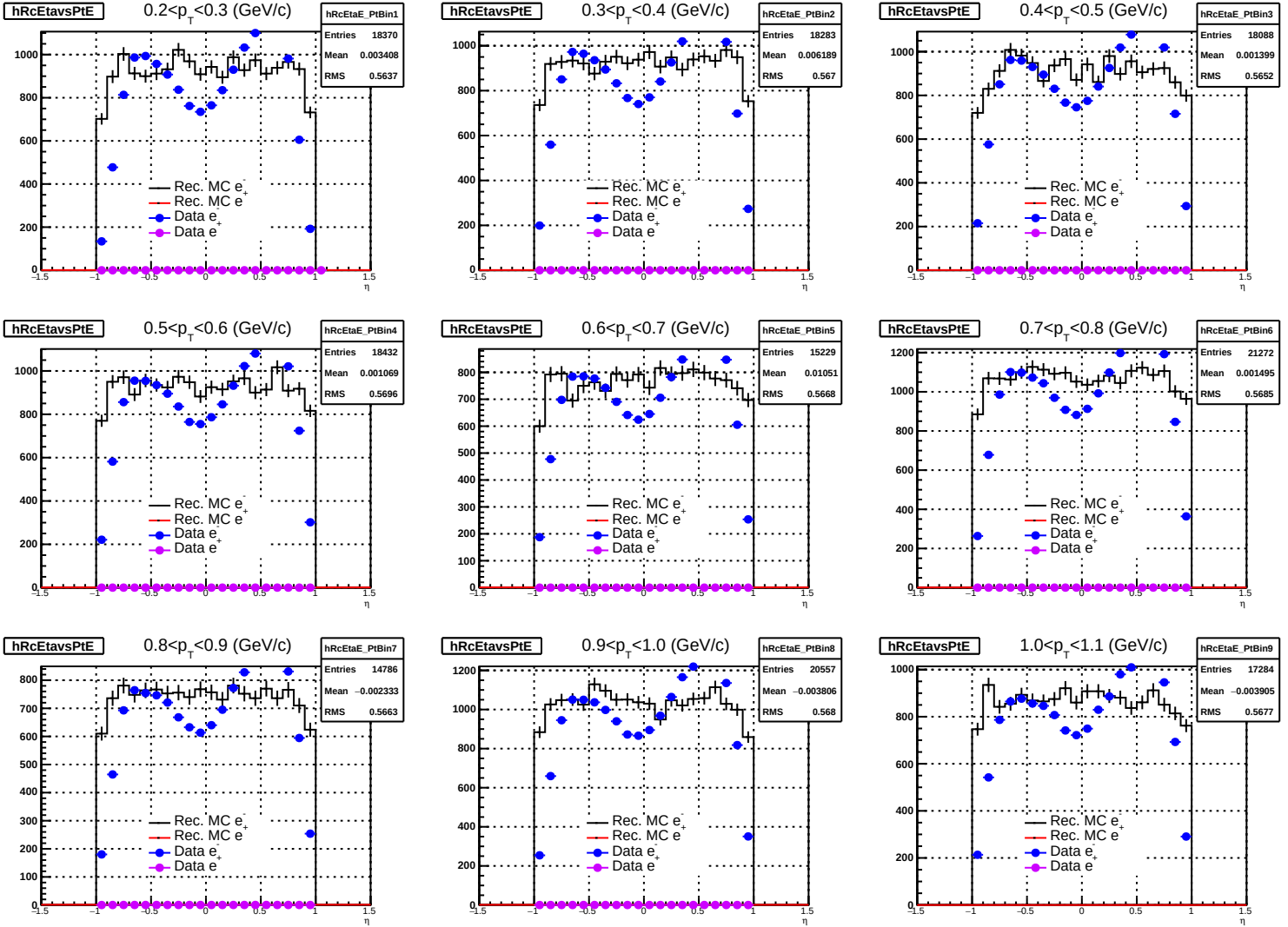

hPtResvsPtE
hPtResvsPtE
Entries 535441
Mean x 2.079
Mean y −0.004981
RMS x 1.103
RMS y 0.02441
Rec. MC e
$(p_T^{RC}-p_T^{MC})/p_T^{MC}$
p_T^{MC} (GeV/c)
Fitted value of par[2]=Sigma
hPtResvsPtE_2
Entries 20
Mean 2.262
RMS 1.126
χ^2 / ndf 27.05 / 17
Prob 0.05732
p0 0.003089 ± 0.000012
p1 0.007754 ± 0.000020
Rec. MC e
σ_{p_T}/p_T^{MC}
p_T^{MC} (GeV/c)
hPtResvsPtP
hPtResvsPtP
Entries 19
Mean x 0.6789
Mean y 0.0002368
RMS x 0.2238
RMS y 0.002267
Rec. MC e
$(p_T^{RC}-p_T^{MC})/p_T^{MC}$
p_T^{MC} (GeV/c)
Fitted value of par[2]=Sigma
hPtResvsPtP_2
Entries 1
Mean 0.7
RMS 0
χ^2 / ndf 6.235e−10 / 0
Prob 0
p0 0.01571 ± 2.33117
p1 0.01753 ± 1.02369
Rec. MC e
σ_{p_T}/p_T^{MC}
p_T^{MC} (GeV/c)

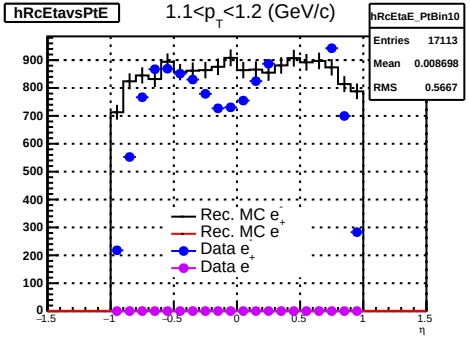

hPResvsPE
hPResvsPE
Entries 535442
Mean x 2.434
Mean y −0.005039
RMS x 1.346
RMS y 0.02439
Rec. MC e
(p_RC − p_MC)/p_MC
p_MC (GeV/c)
Fitted value of par[2]=Sigma
hPResvsPE_2
Entries 31
Mean 3.39
RMS 1.92
Rec. MC e
Momentum Resolution
p_MC (GeV/c)
hPResvsPP
hPResvsPP
Entries 19
Mean x 0.8368
Mean y 0.0002895
RMS x 0.2432
RMS y 0.002166
Rec. MC e
(p_RC − p_MC)/p_MC
p_MC (GeV/c)
Fitted value of par[2]=Sigma
hPResvsPP_2
Entries 3
Mean 1.018
RMS 0.1532
Rec. MC e
Momentum Resolution
p_MC (GeV/c)

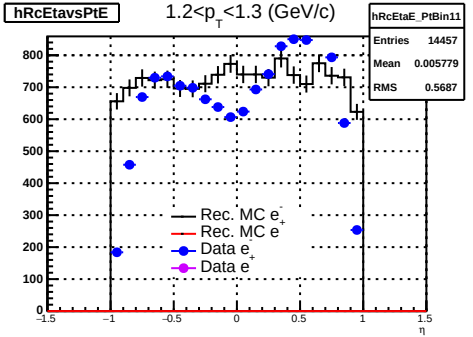

hRcEtavsPtE
hRcEtavsPtE
Entries 535449
Mean x 2.054
Mean y 0.001796
RMS x 1.099
RMS y 0.5693
Rec. MC e
hRcEtavsPtP
hRcEtavsPtP
Entries 19
Mean x 0.6932
Mean y −0.1932
RMS x 0.2281
RMS y 0.5826
Rec. MC e
hDataEtavsPtE
hDataEtavsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 0.03849
RMS x 0.2048
RMS y 0.5255
Data e-
hDataEtavsPtP
hDataEtavsPtP
Entries 2.376485e+07
Mean x 0.3911
Mean y 0.0385
RMS x 0.2059
RMS y 0.5254
Data e+
η
p_T (GeV/c)

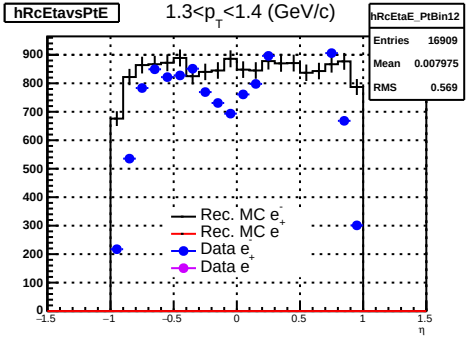

hDataPiEtavsPtM
hDataPiEtavsPtM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
η
1.5
1
0.5
0
−0.5
−1
−1.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
pT (GeV/c)

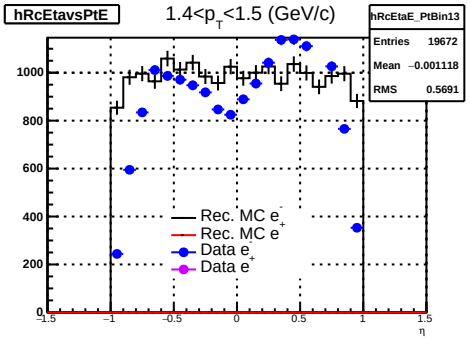

hDataPiEtavsPtP
hDataPiEtavsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π+
η
1.5
1
0.5
0
−0.5
−1
−1.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
pT (GeV/c)

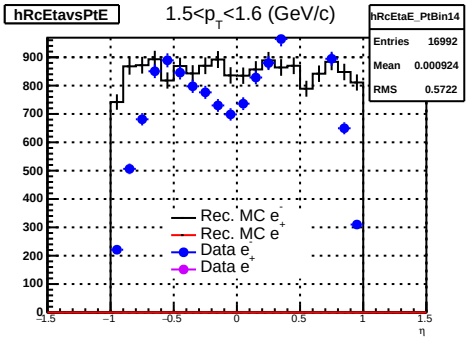

hRcEtavsPtE
0.2<p_T<0.3 (GeV/c)
hRcEtaE_PtBin1
Entries 18370
Mean 0.003408
RMS 0.5637
0.3<p_T<0.4 (GeV/c)
hRcEtaE_PtBin2
Entries 18283
Mean 0.006189
RMS 0.567
0.4<p_T<0.5 (GeV/c)
hRcEtaE_PtBin3
Entries 18088
Mean 0.001399
RMS 0.5652
0.5<p_T<0.6 (GeV/c)
hRcEtaE_PtBin4
Entries 18432
Mean 0.001069
RMS 0.5696
0.6<p_T<0.7 (GeV/c)
hRcEtaE_PtBin5
Entries 15229
Mean 0.01051
RMS 0.5668
0.7<p_T<0.8 (GeV/c)
hRcEtaE_PtBin6
Entries 21272
Mean 0.001495
RMS 0.5685
0.8<p_T<0.9 (GeV/c)
hRcEtaE_PtBin7
Entries 14786
Mean −0.002333
RMS 0.5663
0.9<p_T<1.0 (GeV/c)
hRcEtaE_PtBin8
Entries 20557
Mean −0.003806
RMS 0.568
1.0<p_T<1.1 (GeV/c)
hRcEtaE_PtBin9
Entries 17284
Mean −0.003905
RMS 0.5677
Rec. MC e⁻
Rec. MC e⁺
Data e⁻
Data e⁺
η

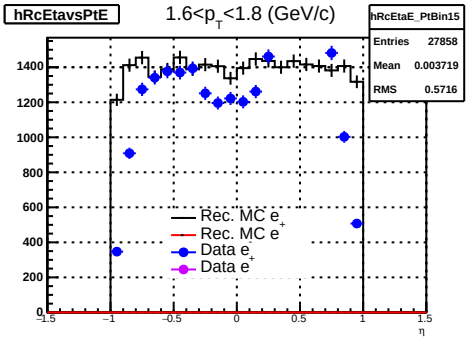

hRcEtavsPtE
1.1<p_T<1.2 (GeV/c)
hRcEtaE_PtBin10
Entries 17113
Mean 0.008698
RMS 0.5667
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

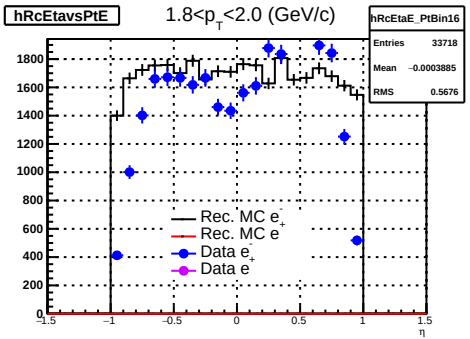

hRcEtavsPtE
1.2<p_T<1.3 (GeV/c)
hRcEtaE_PtBin11
Entries 14457
Mean 0.005779
RMS 0.5687
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

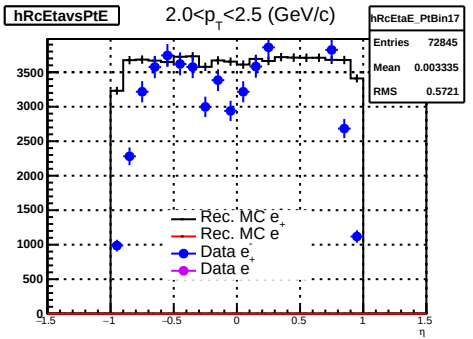

hRcEtavsPtE
1.3<p_T<1.4 (GeV/c)
hRcEtaE_PtBin12
Entries 16909
Mean 0.007975
RMS 0.569
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

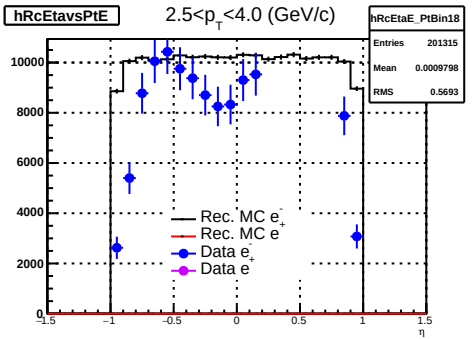

hRcEtavsPtE
1.4<p_T<1.5 (GeV/c)
hRcEtaE_PtBin13
Entries 19672
Mean −0.001118
RMS 0.5691
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

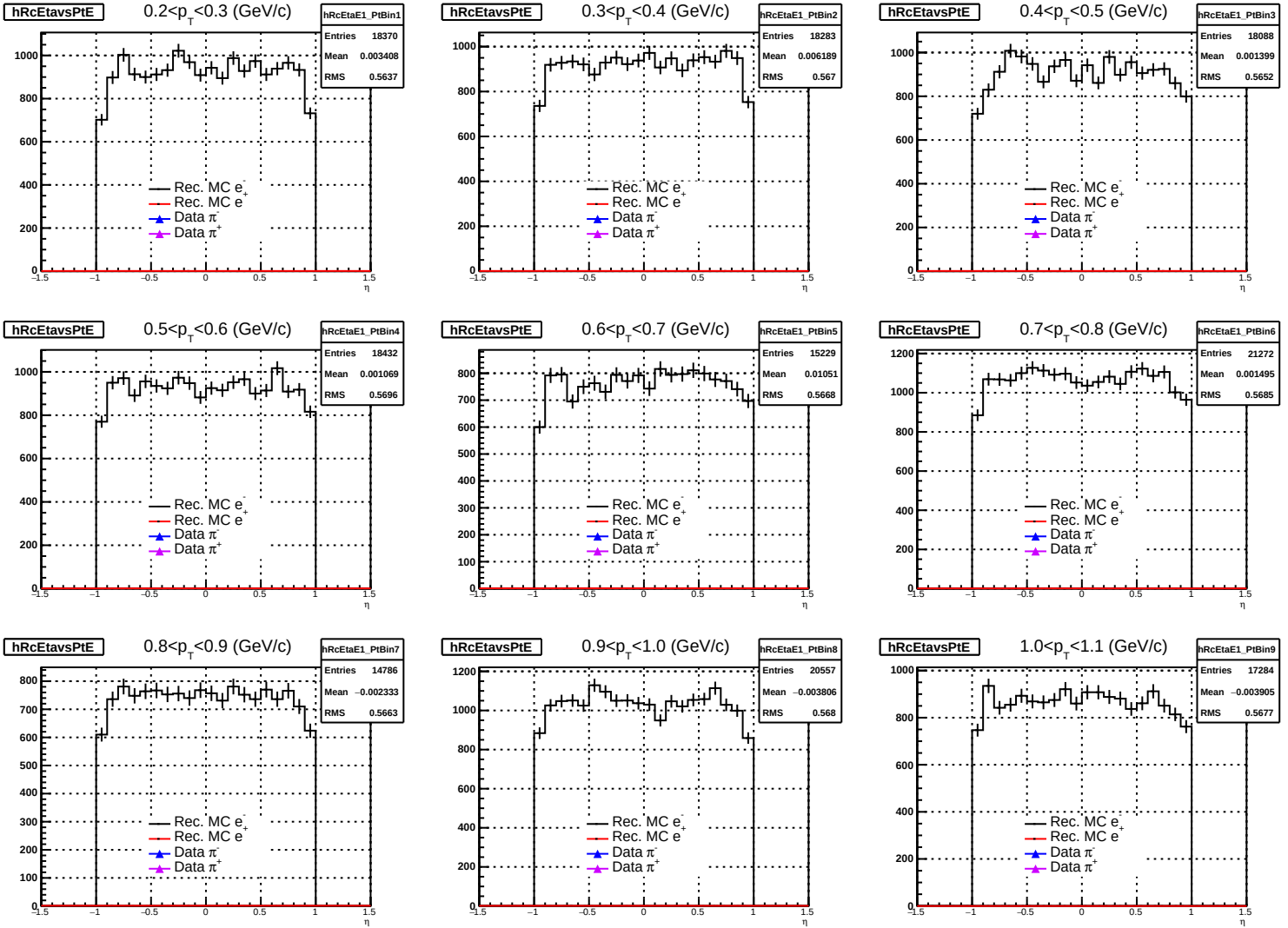

hRcEtavsPtE
1.5<p_T<1.6 (GeV/c)
hRcEtaE_PtBin14
Entries 16992
Mean 0.000924
RMS 0.5722
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

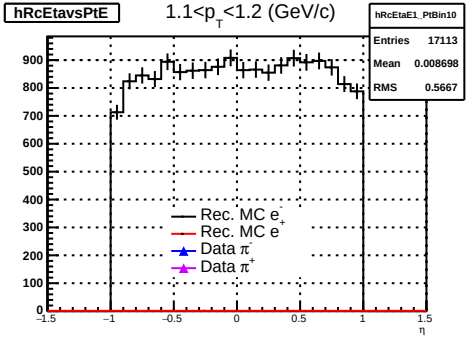

hRcEtavsPtE
1.6<p_T<1.8 (GeV/c)
hRcEtaE_PtBin15
Entries 27858
Mean 0.003719
RMS 0.5716
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

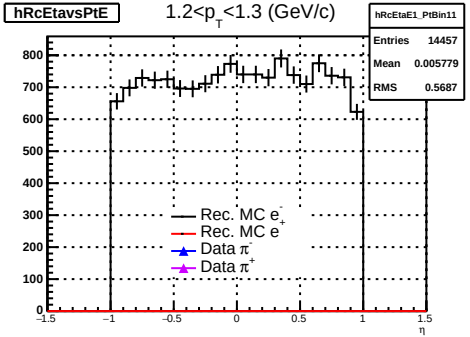

hRcEtavsPtE
1.8<p_T<2.0 (GeV/c)
hRcEtaE_PtBin16
Entries 33718
Mean −0.0003885
RMS 0.5676
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

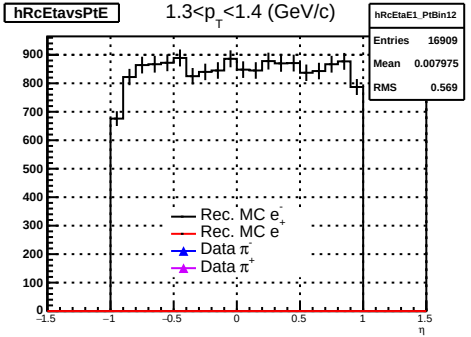

hRcEtavsPtE
2.0<p_T<2.5 (GeV/c)
hRcEtaE_PtBin17
Entries 72845
Mean 0.003335
RMS 0.5721
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

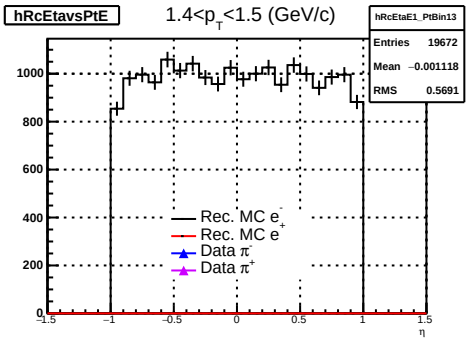

hRcEtavsPtE
2.5<p_T<4.0 (GeV/c)
hRcEtaE_PtBin18
Entries 201315
Mean 0.0009798
RMS 0.5693
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

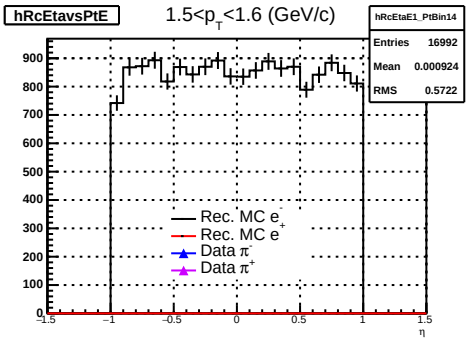

hRcEtavsPtE
0.2<p_T<0.3 (GeV/c)
hRcEtaE1_PtBin1
Entries 18370
Mean 0.003408
RMS 0.5637
0.3<p_T<0.4 (GeV/c)
hRcEtaE1_PtBin2
Entries 18283
Mean 0.006189
RMS 0.567
0.4<p_T<0.5 (GeV/c)
hRcEtaE1_PtBin3
Entries 18088
Mean 0.001399
RMS 0.5652
0.5<p_T<0.6 (GeV/c)
hRcEtaE1_PtBin4
Entries 18432
Mean 0.001069
RMS 0.5696
0.6<p_T<0.7 (GeV/c)
hRcEtaE1_PtBin5
Entries 15229
Mean 0.01051
RMS 0.5668
0.7<p_T<0.8 (GeV/c)
hRcEtaE1_PtBin6
Entries 21272
Mean 0.001495
RMS 0.5685
0.8<p_T<0.9 (GeV/c)
hRcEtaE1_PtBin7
Entries 14786
Mean −0.002333
RMS 0.5663
0.9<p_T<1.0 (GeV/c)
hRcEtaE1_PtBin8
Entries 20557
Mean −0.003806
RMS 0.568
1.0<p_T<1.1 (GeV/c)
hRcEtaE1_PtBin9
Entries 17284
Mean −0.003905
RMS 0.5677
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

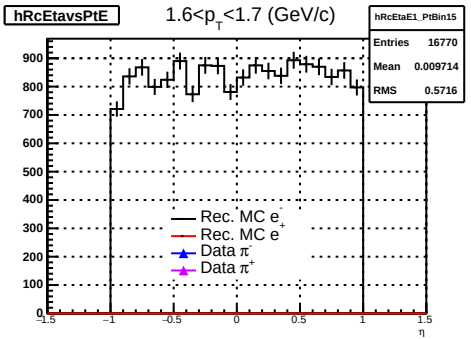

hRcEtavsPtE
1.1<p_T<1.2 (GeV/c)
hRcEtaE1_PtBin10
Entries 17113
Mean 0.008698
RMS 0.5667
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

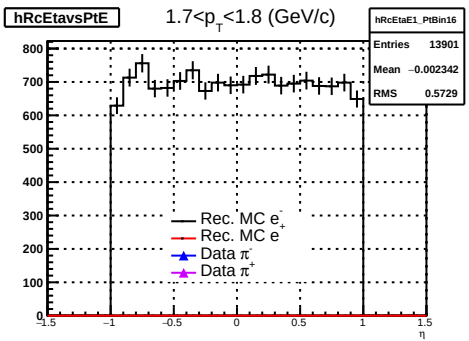

hRcEtavsPtE
1.2<p_T<1.3 (GeV/c)
hRcEtaE1_PtBin11
Entries 14457
Mean 0.005779
RMS 0.5687
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

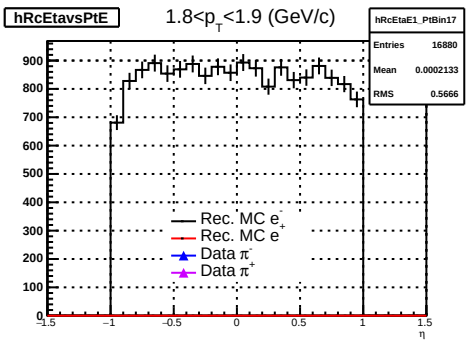

hRcEtavsPtE
1.3<p_T<1.4 (GeV/c)
hRcEtaE1_PtBin12
Entries 16909
Mean 0.007975
RMS 0.569
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

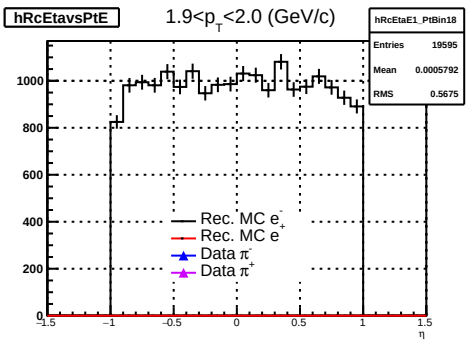

hRcEtavsPtE
1.4<p_T<1.5 (GeV/c)
hRcEtaE1_PtBin13
Entries 19672
Mean −0.001118
RMS 0.5691
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

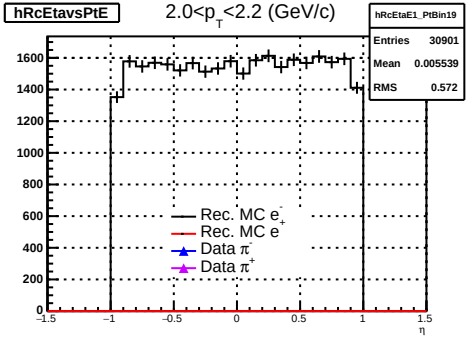

hRcEtavsPtE
1.5<p_T<1.6 (GeV/c)
hRcEtaE1_PtBin14
Entries 16992
Mean 0.000924
RMS 0.5722
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

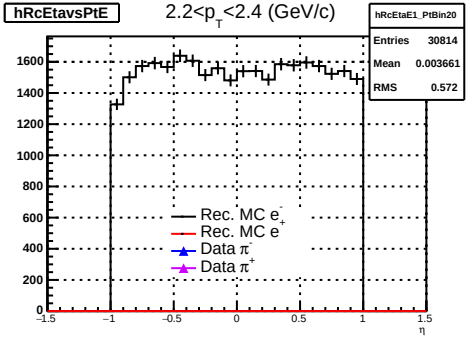

hRcEtavsPtE
1.6<p_T<1.7 (GeV/c)
hRcEtaE1_PtBin15
Entries 16770
Mean 0.009714
RMS 0.5716
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

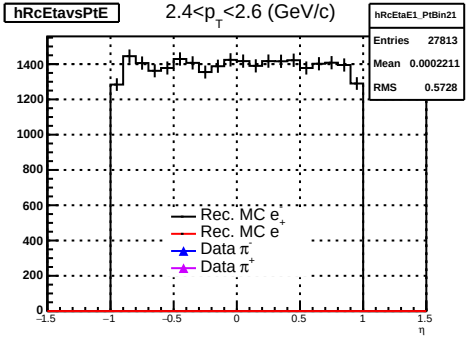

hRcEtavsPtE
1.7<p_T<1.8 (GeV/c)
hRcEtaE1_PtBin16
Entries 13901
Mean −0.002342
RMS 0.5729
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

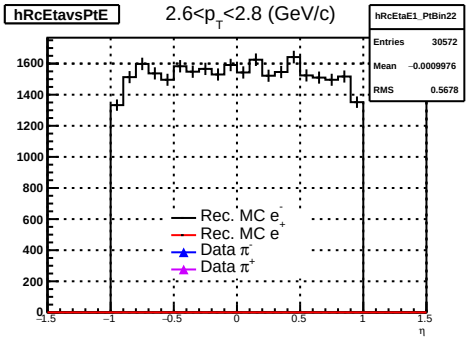

hRcEtavsPtE
1.8<p_T<1.9 (GeV/c)
hRcEtaE1_PtBin17
Entries 16880
Mean 0.0002133
RMS 0.5666
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

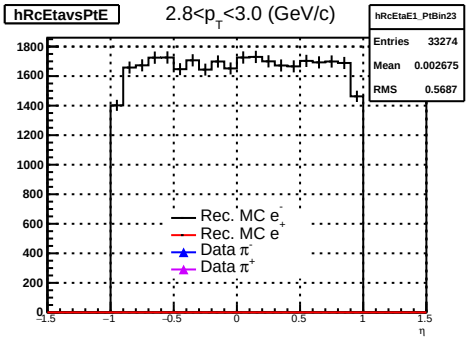

hRcEtavsPtE
1.9<p_T<2.0 (GeV/c)
hRcEtaE1_PtBin18
Entries 19595
Mean 0.0005792
RMS 0.5675
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

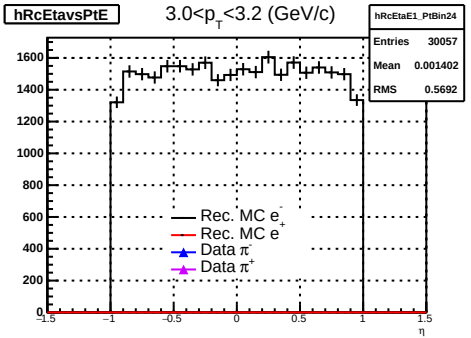

hRcEtavsPtE
2.0<p_T<2.2 (GeV/c)
hRcEtaE1_PtBin19
Entries 30901
Mean 0.005539
RMS 0.572
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

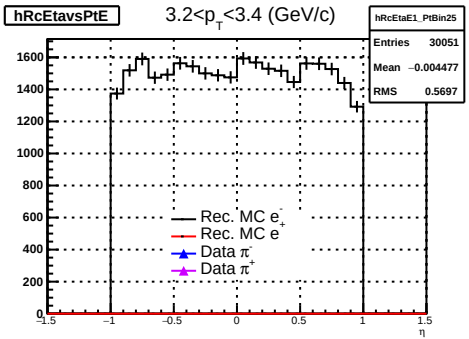

hRcEtavsPtE
2.2<p_T<2.4 (GeV/c)
hRcEtaE1_PtBin20
Entries 30814
Mean 0.003661
RMS 0.572
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

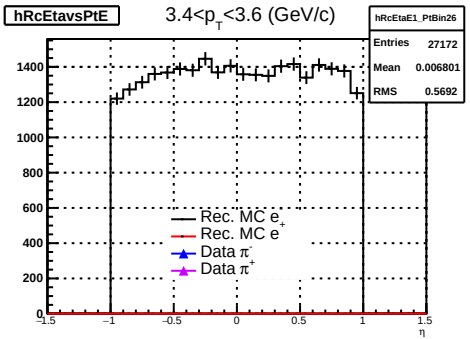

hRcEtavsPtE
2.4<p_T<2.6 (GeV/c)
hRcEtaE1_PtBin21
Entries 27813
Mean 0.0002211
RMS 0.5728
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

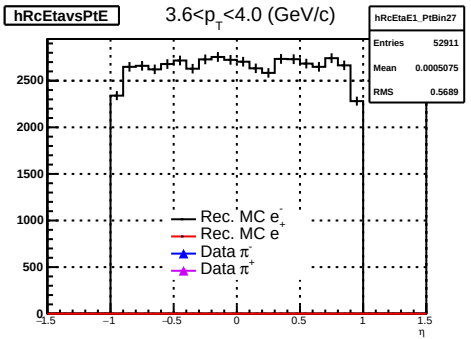

hRcEtavsPtE
2.6<p_T<2.8 (GeV/c)
hRcEtaE1_PtBin22
Entries 30572
Mean −0.0009976
RMS 0.5678
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

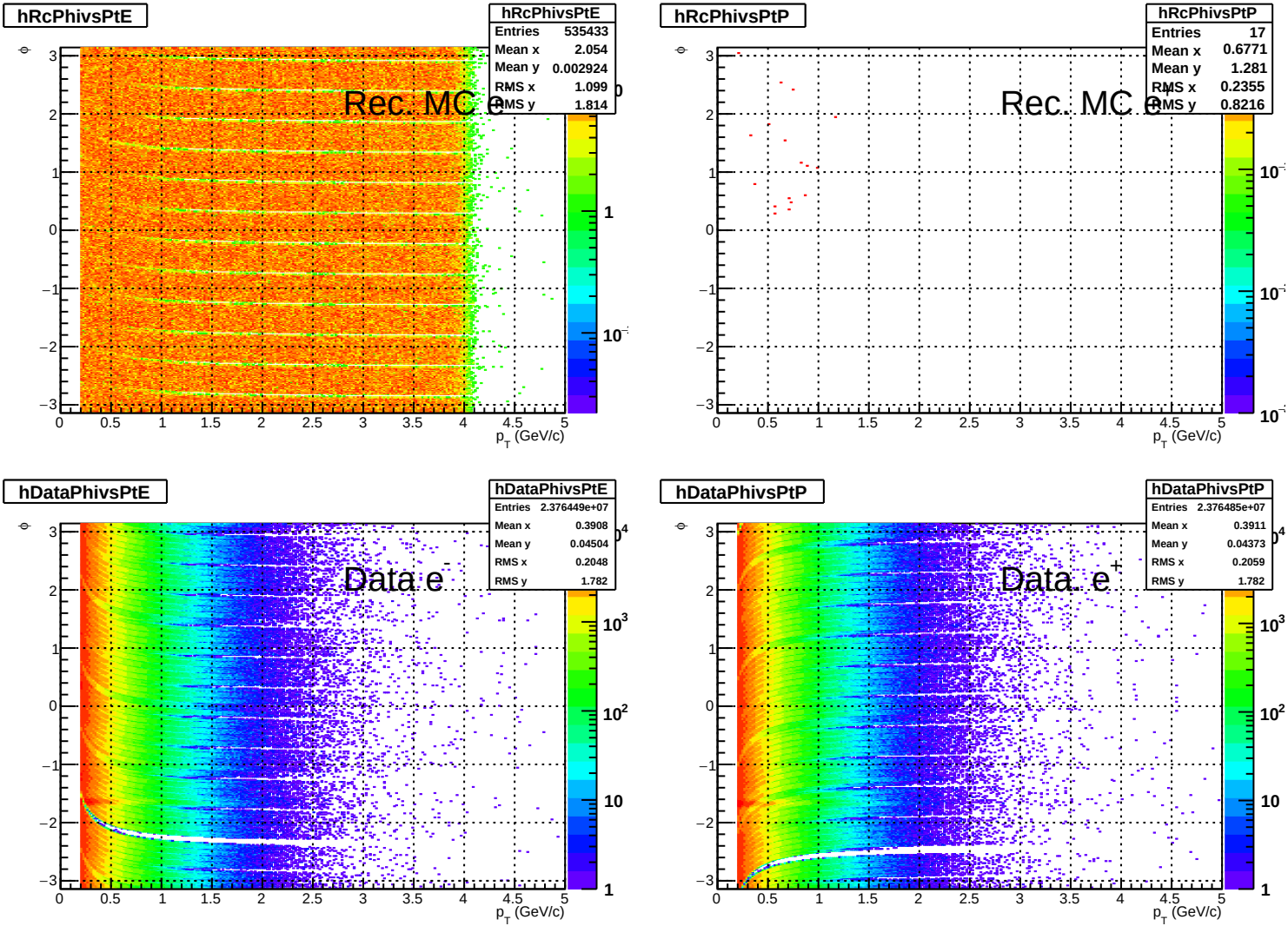

hRcEtavsPtE
2.8<p_T<3.0 (GeV/c)
hRcEtaE1_PtBin23
Entries 33274
Mean 0.002675
RMS 0.5687
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

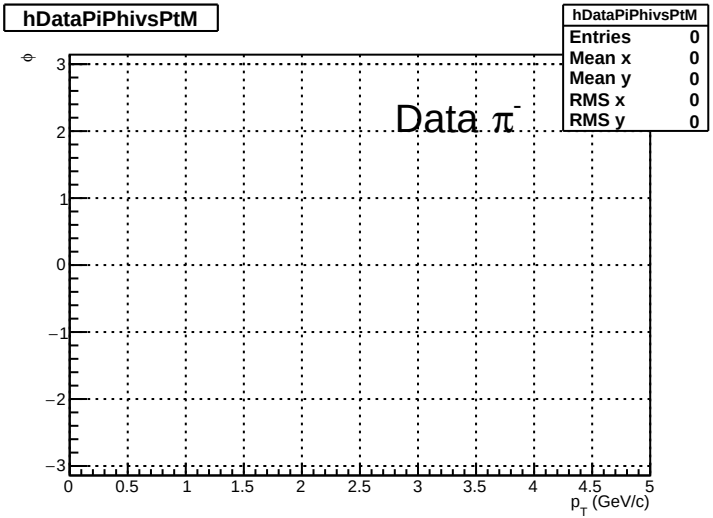

hRcEtavsPtE
3.0<p_T<3.2 (GeV/c)
hRcEtaE1_PtBin24
Entries 30057
Mean 0.001402
RMS 0.5692
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

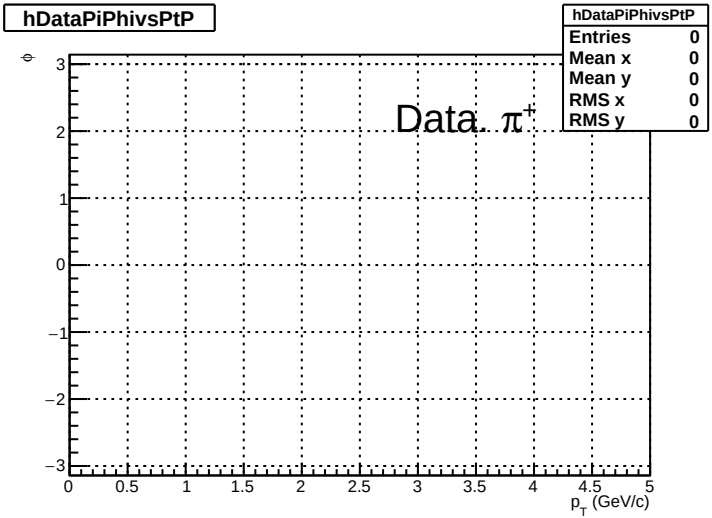

hRcEtavsPtE
3.2<p_T<3.4 (GeV/c)
hRcEtaE1_PtBin25
Entries 30051
Mean −0.004477
RMS 0.5697
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

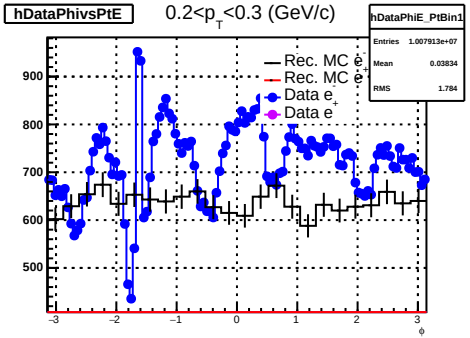

hRcEtavsPtE
3.4<p_T<3.6 (GeV/c)
hRcEtaE1_PtBin26
Entries 27172
Mean 0.006801
RMS 0.5692
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

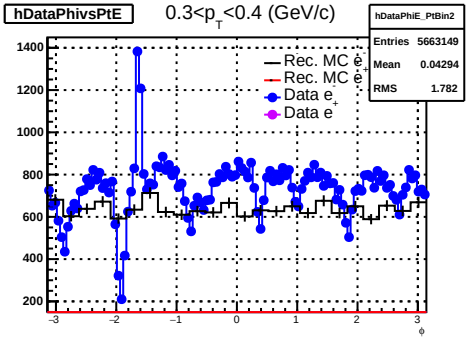

hRcEtavsPtE
3.6<p_T<4.0 (GeV/c)
hRcEtaE1_PtBin27
Entries 52911
Mean 0.0005075
RMS 0.5689
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

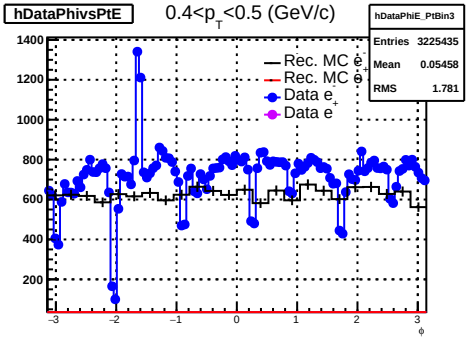

hRcPhivsPtE
hRcPhivsPtE
Entries 535433
Mean x 2.054
Mean y 0.002924
RMS x 1.099
RMS y 1.814
Rec. MC e
hRcPhivsPtP
hRcPhivsPtP
Entries 17
Mean x 0.6771
Mean y 1.281
RMS x 0.2355
RMS y 0.8216
Rec. MC e
hDataPhivsPtE
hDataPhivsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 0.04504
RMS x 0.2048
RMS y 1.782
Data e
hDataPhivsPtP
hDataPhivsPtP
Entries 2.376485e+07
Mean x 0.3911
Mean y 0.04373
RMS x 0.2059
RMS y 1.782
Data e+
φ
p_T (GeV/c)

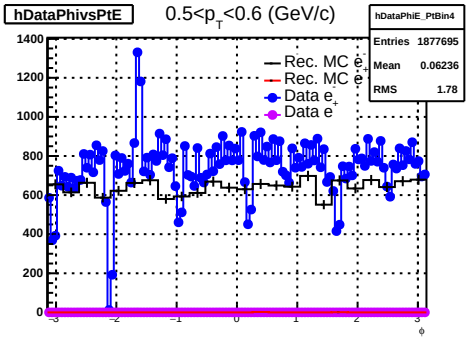

hDataPiPhivsPtM
hDataPiPhivsPtM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
ϕ
p_T (GeV/c)

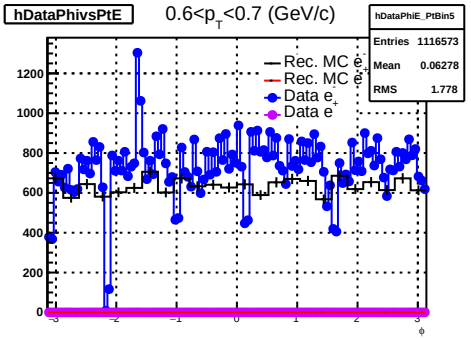

hDataPiPhivsPtP
hDataPiPhivsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π+
ϕ
p_T (GeV/c)

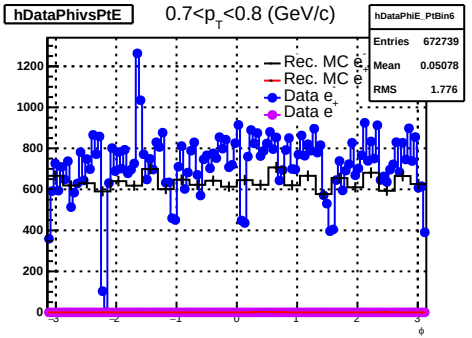

hDataPhivsPtE
0.2<p_T<0.3 (GeV/c)
hDataPhiE_PtBin1
Entries 1.007913e+07
Mean 0.03834
RMS 1.784
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

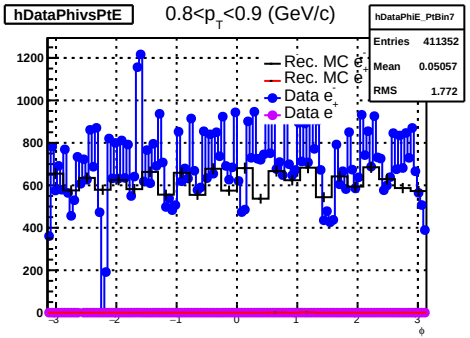

hDataPhivsPtE
0.3<p_T<0.4 (GeV/c)
hDataPhiE_PtBin2
Entries 5663149
Mean 0.04294
RMS 1.782
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

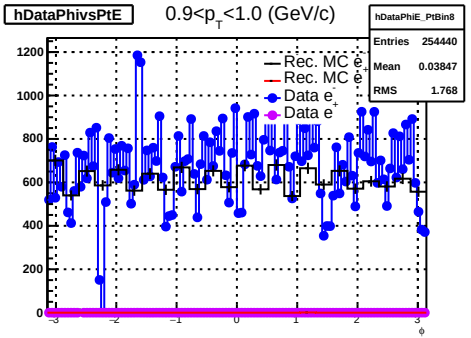

hDataPhivsPtE
0.4<p_T<0.5 (GeV/c)
hDataPhiE_PtBin3
Entries 3225435
Mean 0.05458
RMS 1.781
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
0.5<p_T<0.6 (GeV/c)
hDataPhiE_PtBin4
Entries 1877695
Mean 0.06236
RMS 1.78
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
0.6<p_T<0.7 (GeV/c)
hDataPhiE_PtBin5
Entries 1116573
Mean 0.06278
RMS 1.778
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
0.7<p_T<0.8 (GeV/c)
hDataPhiE_PtBin6
Entries 672739
Mean 0.05078
RMS 1.776
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
0.8<p_T<0.9 (GeV/c)
hDataPhiE_PtBin7
Entries 411352
Mean 0.05057
RMS 1.772
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
0.9<p_T<1.0 (GeV/c)
hDataPhiE_PtBin8
Entries 254440
Mean 0.03847
RMS 1.768
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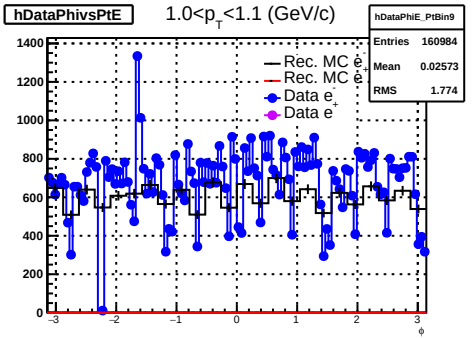
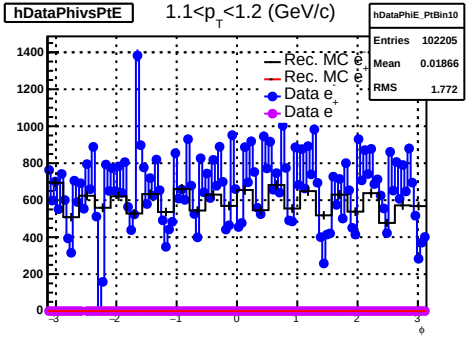
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
1.0<p_T<1.1 (GeV/c)
hDataPhiE_PtBin9
Entries 160984
Mean 0.02573
RMS 1.774
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ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1.1<p_T<1.2 (GeV/c)
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Entries 102205
Mean 0.01866
RMS 1.772
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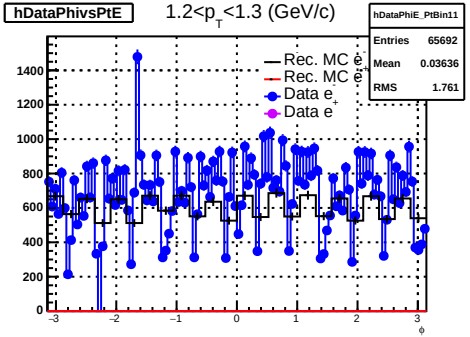
Rec. MC e+
Data e+
Data e-
ϕ


hDataPhivsPtE
1.2<p_T<1.3 (GeV/c)
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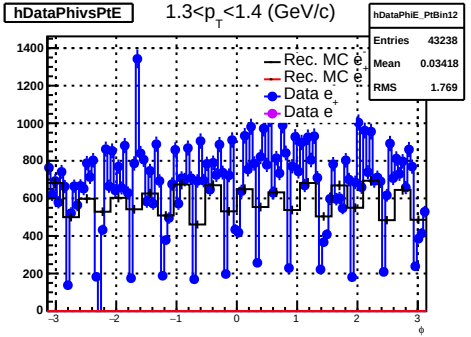
Entries 65692
Mean 0.03636
RMS 1.761
Rec. MC e-
Rec. MC e+
Data e+
Data e-
ϕ


hDataPhivsPtE
1.3<p_T<1.4 (GeV/c)
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Entries 43238
Mean 0.03418
RMS 1.769
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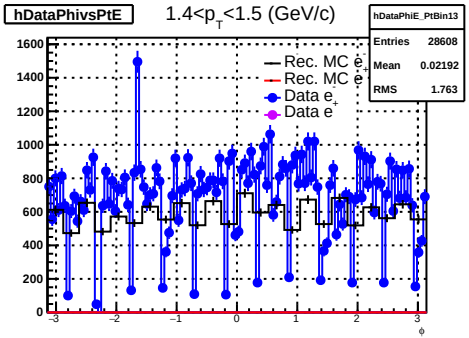
Rec. MC e+
Data e+
Data e-
ϕ


hDataPhivsPtE
1.4<p_T<1.5 (GeV/c)
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Entries 28608
Mean 0.02192
RMS 1.763
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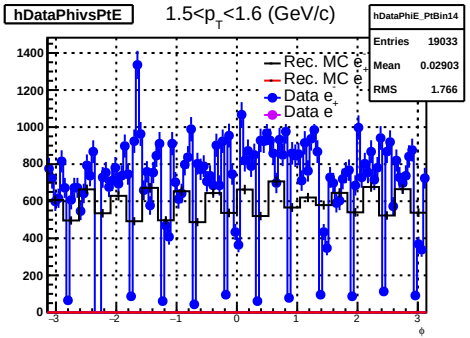
Rec. MC e+
Data e+
Data e-
ϕ


hDataPhivsPtE
1.5<p_T<1.6 (GeV/c)
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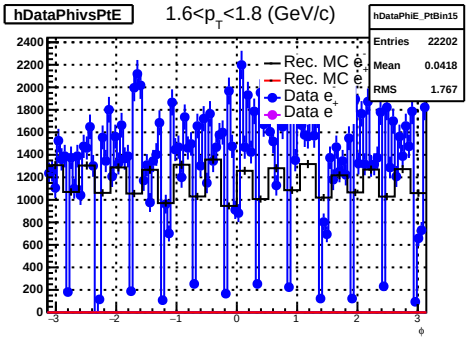
Entries 19033
Mean 0.02903
RMS 1.766
Rec. MC e-
Rec. MC e+
Data e+
Data e-
ϕ


hDataPhivsPtE
1.6<p_T<1.8 (GeV/c)
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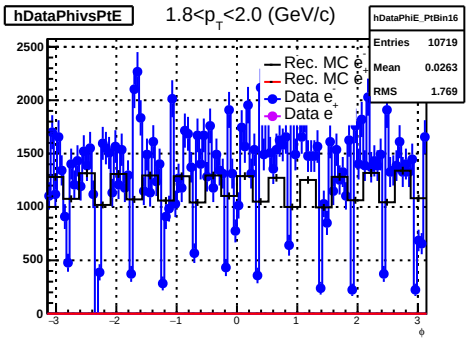
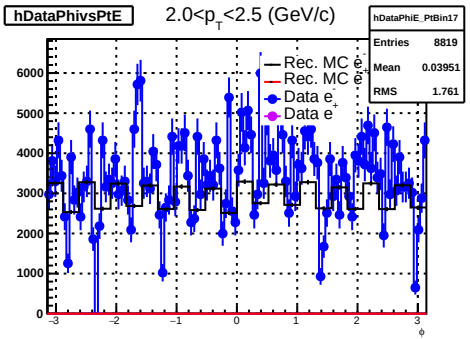
Entries 22202
Mean 0.0418
RMS 1.767
Rec. MC e-
Rec. MC e+
Data e+
Data e-
ϕ


hDataPhivsPtE
1.8<p_T<2.0 (GeV/c)
hDataPhiE_PtBin16
Entries 10719
Mean 0.0263
RMS 1.769
Rec. MC e-
Rec. MC e+
Data e+
Data e-
ϕ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2.0<p_T<2.5 (GeV/c)
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Entries 8819
Mean 0.03951
RMS 1.761
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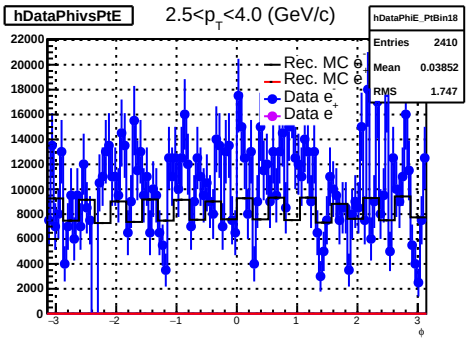
Rec. MC e+
Data e+
Data e-
ϕ


hDataPhivsPtE
2.5<p_T<4.0 (GeV/c)
hDataPhiE_PtBin18
Entries 2410
Mean 0.03852
RMS 1.747
Rec. MC e-
Rec. MC e+
Data e+
Data e-
ϕ

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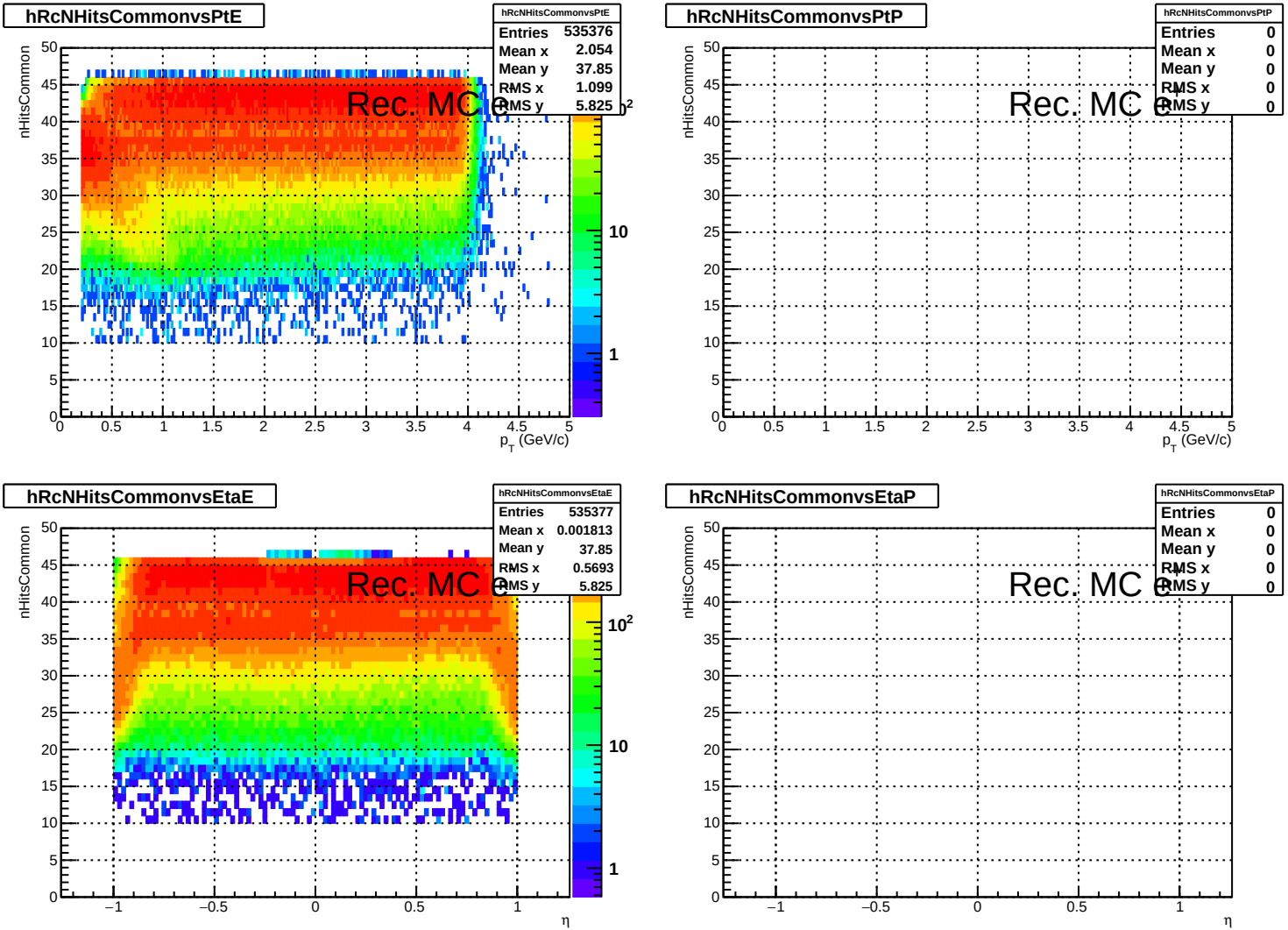
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hRcNHitsCommonvsPtE
Entries 535376
Mean x 2.054
Mean y 37.85
RMS x 1.099
RMS y 5.825
Rec. MC e
nHitsCommon
p_T (GeV/c)
hRcNHitsCommonvsPtP
hRcNHitsCommonvsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Rec. MC e
nHitsCommon
p_T (GeV/c)
hRcNHitsCommonvsEtaE
hRcNHitsCommonvsEtaE
Entries 535377
Mean x 0.001813
Mean y 37.85
RMS x 0.5693
RMS y 5.825
Rec. MC e
nHitsCommon
η
hRcNHitsCommonvsEtaP
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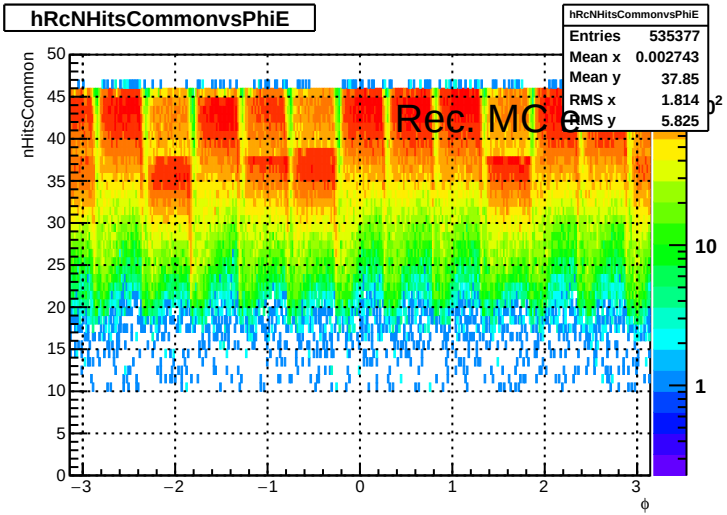
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Rec. MC e
nHitsCommon
η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Entries 535377
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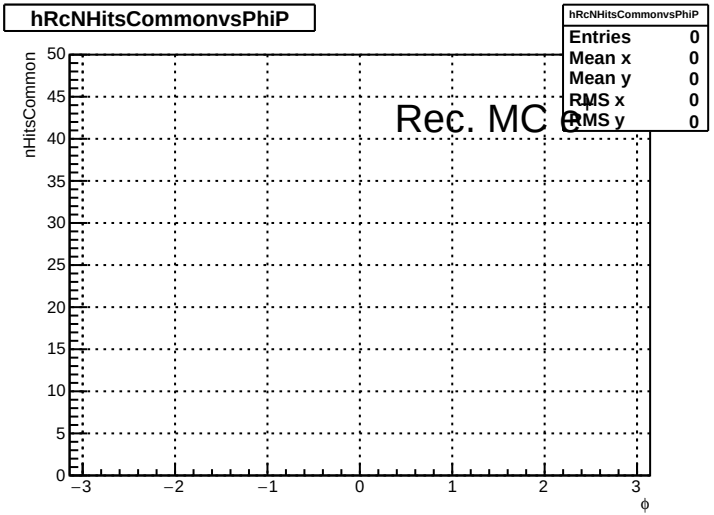
Mean y 37.85
RMS x 1.814
RMS y 5.825
Rec. MC e
nHitsCommon
ϕ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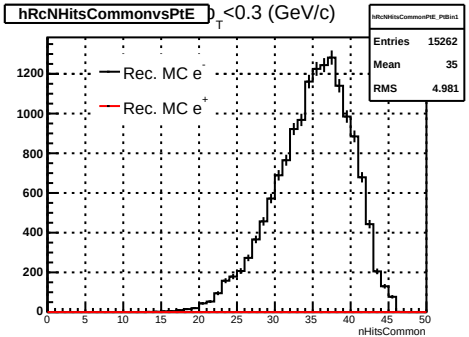
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Rec. MC e
nHitsCommon
ϕ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p_T<0.3 (GeV/c)
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Entries 15262
Mean 35
RMS 4.981
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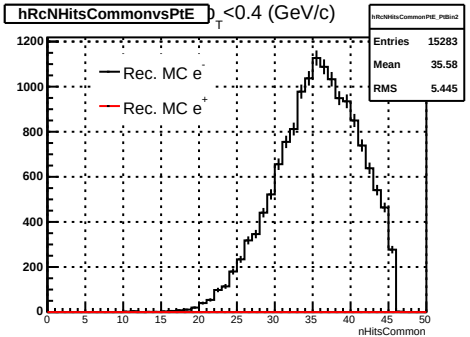
Rec. MC e+
nHitsCommon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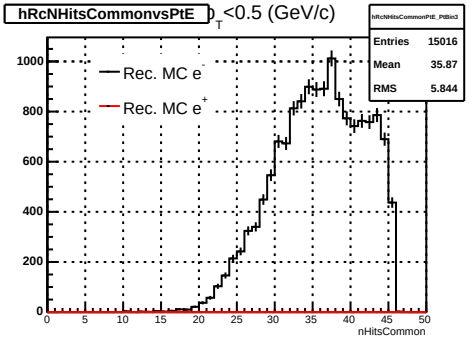
p_T<0.4 (GeV/c)
hRcNHitsCommonPtE_PtBin2
Entries 15283
Mean 35.58
RMS 5.445
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPtE
p_T<0.5 (GeV/c)
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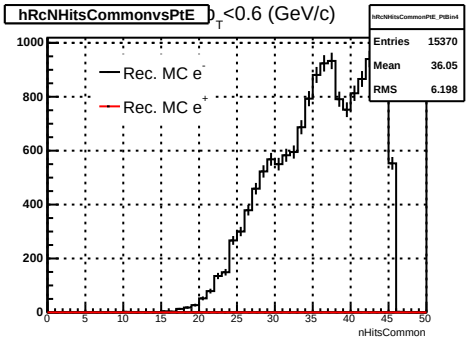
Entries 15016
Mean 35.87
RMS 5.844
Rec. MC e-
Rec. MC e+
nHitsCommon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p_T<0.6 (GeV/c)
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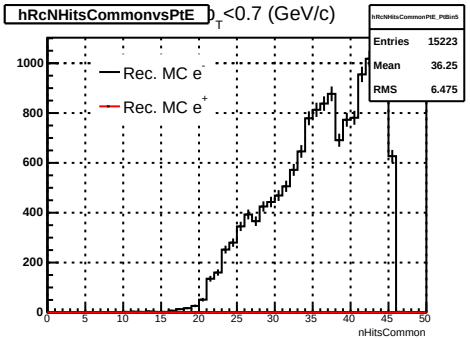
Entries 15370
Mean 36.05
RMS 6.198
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPtE
p_T<0.7 (GeV/c)
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Entries 15223
Mean 36.25
RMS 6.475
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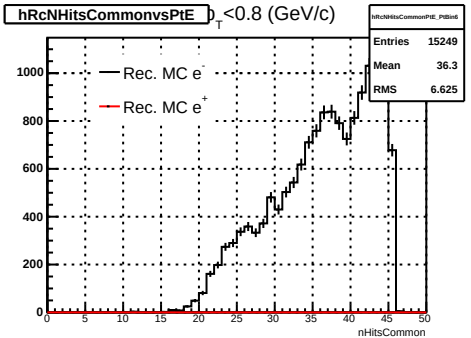
nHitsCommon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p_T<0.8 (GeV/c)
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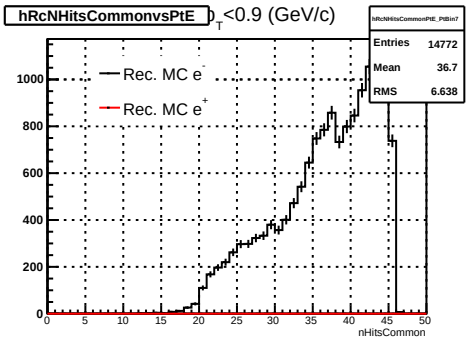
Entries 15249
Mean 36.3
RMS 6.625
Rec. MC e-
Rec. MC e+
nHitsCommon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p_T<0.9 (GeV/c)
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Entries 14772
Mean 36.7
RMS 6.638
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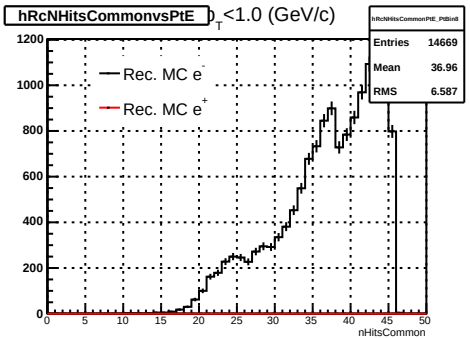
nHitsCommon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p_T<1.0 (GeV/c)
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Entries 14669
Mean 36.96
RMS 6.587
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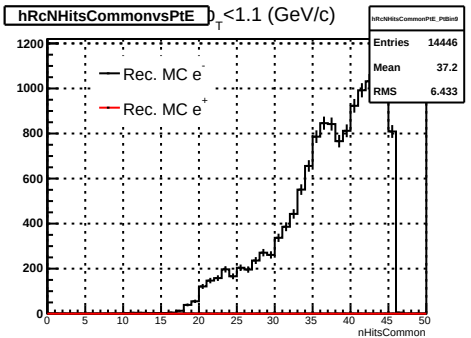
Rec. MC e+
nHitsCommon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p_T<1.1 (GeV/c)
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Entries 14446
Mean 37.2
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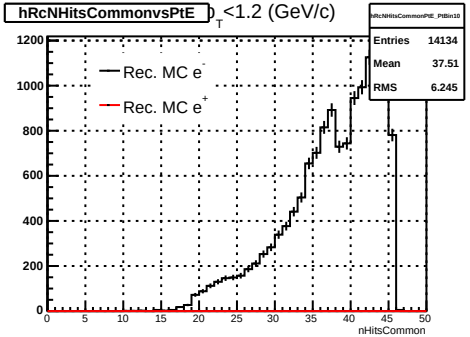
nHitsCommon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Entries 14134
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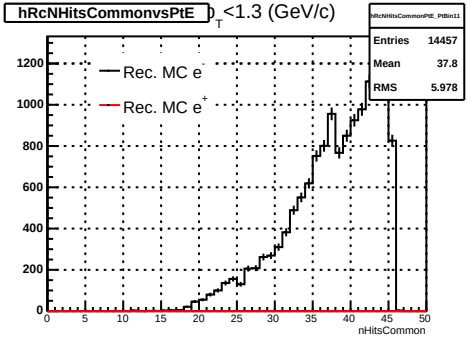
nHitsCommon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Entries 14457
Mean 37.8
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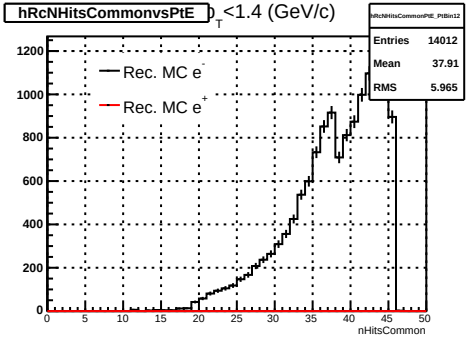
Rec. MC e-
Rec. MC e+
nHitsCommon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p_T<1.4 (GeV/c)
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Entries 14012
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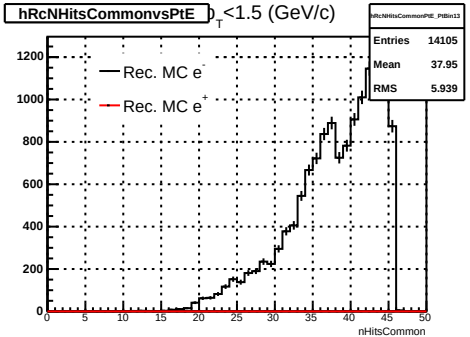
nHitsCommon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p_T<1.5 (GeV/c)
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Entries 14105
Mean 37.95
RMS 5.939
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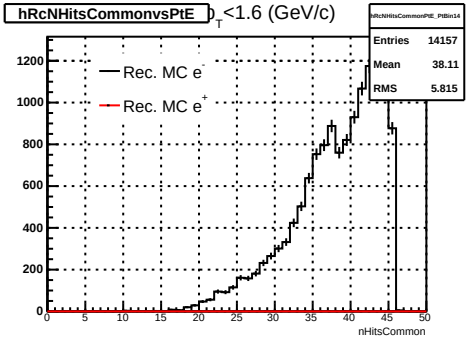
Rec. MC e+
nHitsCommon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p_T<1.6 (GeV/c)
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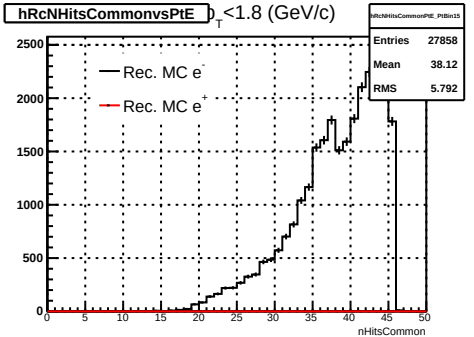
Entries 14157
Mean 38.11
RMS 5.815
Rec. MC e-
Rec. MC e+
nHitsCommon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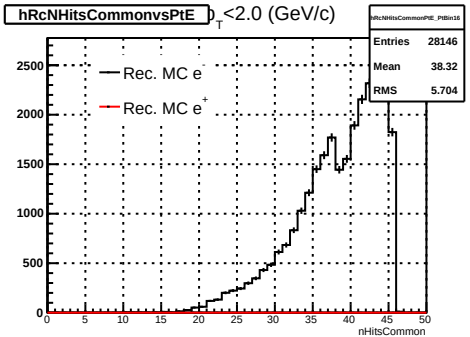
p_T<1.8 (GeV/c)
hRcNHitsCommonPtE_PtBin15
Entries 27858
Mean 38.12
RMS 5.792
Rec. MC e-
Rec. MC e+
nHitsCommon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p_T<2.0 (GeV/c)
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Entries 28146
Mean 38.32
RMS 5.704
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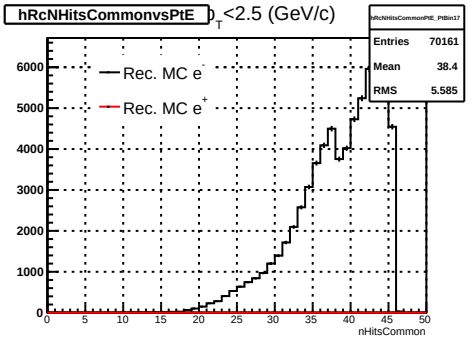
Rec. MC e+
nHitsCommon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p_T<2.5 (GeV/c)
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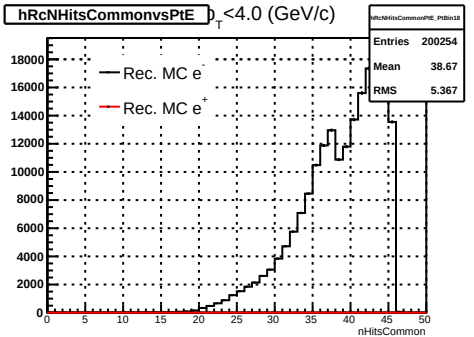
Entries 70161
Mean 38.4
RMS 5.585
Rec. MC e-
Rec. MC e+
nHitsCommon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p_T<4.0 (GeV/c)
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Entries 200254
Mean 38.67
RMS 5.367
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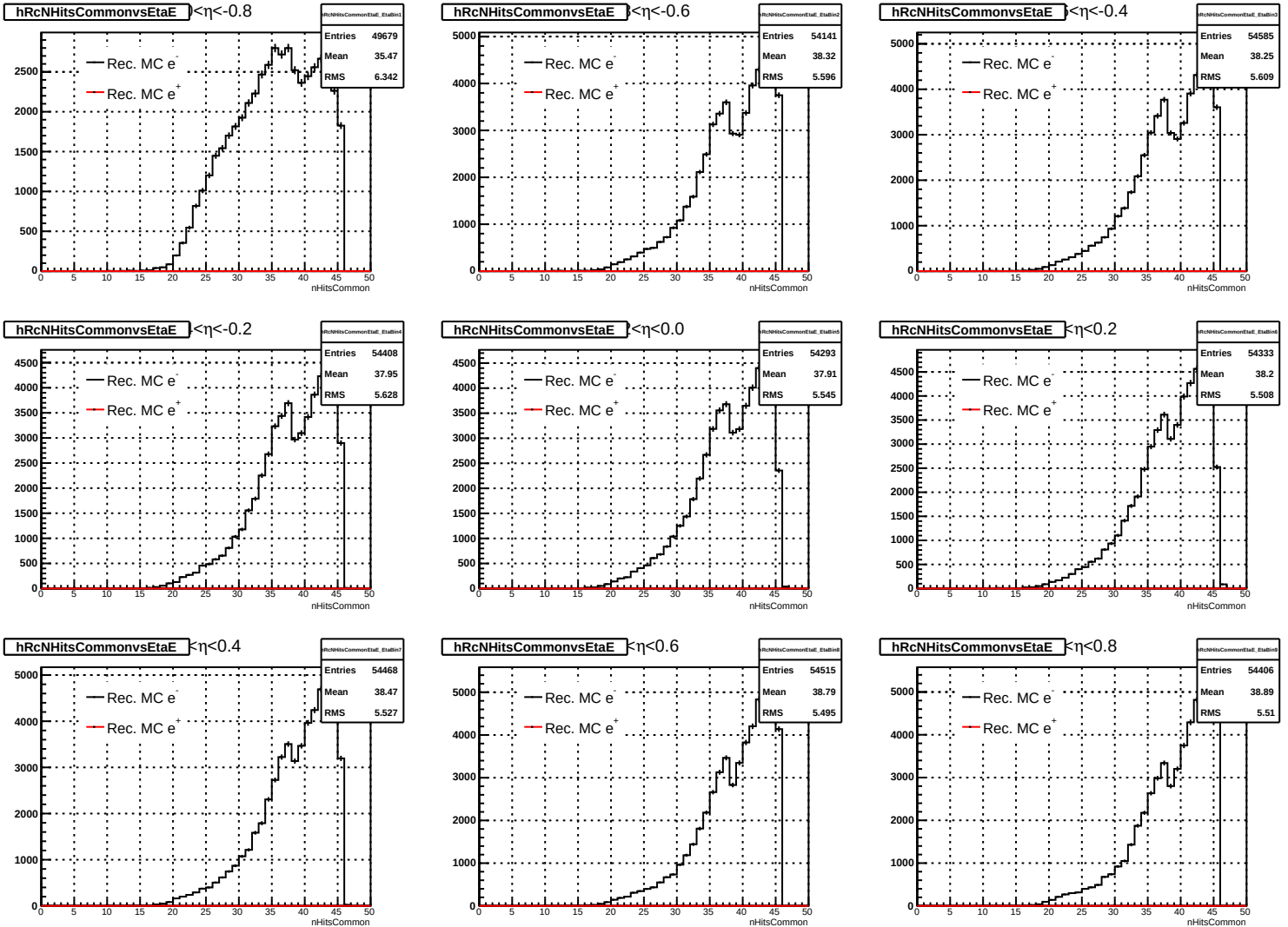
Rec. MC e+
nHitsCommon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Entries 49679
Mean 35.47
RMS 6.342
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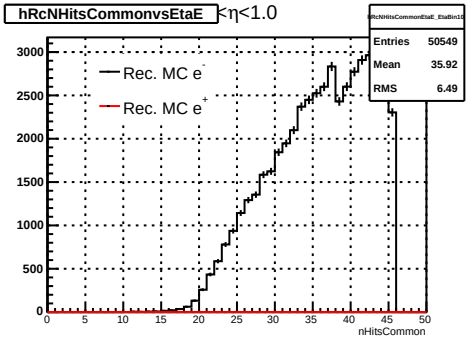
Entries 54141
Mean 38.32
RMS 5.596
hRcNHitsCommonvsEtaE
<η<-0.4
Entries 54585
Mean 38.25
RMS 5.609
hRcNHitsCommonvsEtaE
<η<-0.2
Entries 54408
Mean 37.95
RMS 5.628
hRcNHitsCommonvsEtaE
<η<0.0
Entries 54293
Mean 37.91
RMS 5.545
hRcNHitsCommonvsEtaE
<η<0.2
Entries 54333
Mean 38.2
RMS 5.508
hRcNHitsCommonvsEtaE
<η<0.4
Entries 54468
Mean 38.47
RMS 5.527
hRcNHitsCommonvsEtaE
<η<0.6
Entries 54515
Mean 38.79
RMS 5.495
hRcNHitsCommonvsEtaE
<η<0.8
Entries 54406
Mean 38.89
RMS 5.51
Rec. MC e-
Rec. MC e+
nHitsCommon



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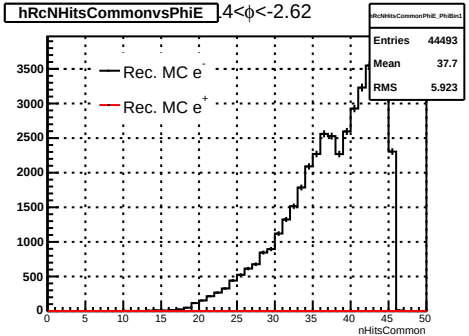
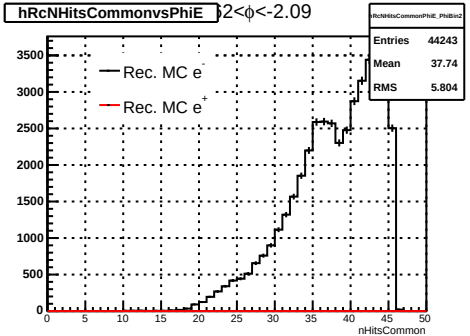
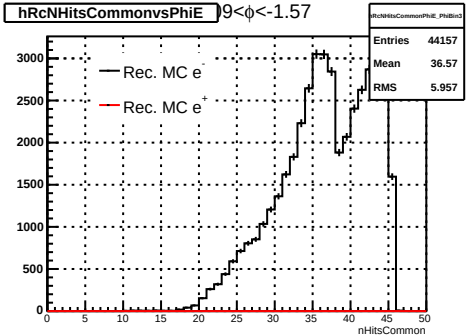
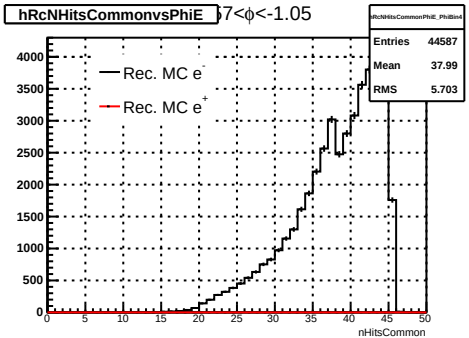
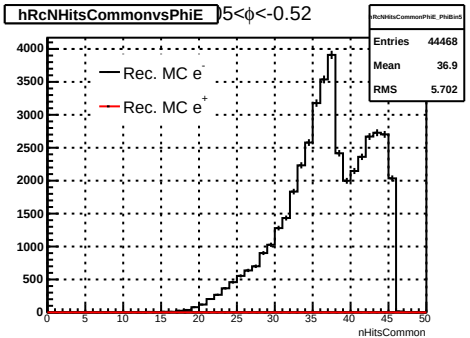
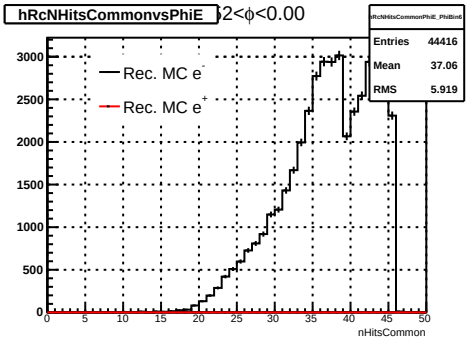

hRcNHitsCommonvsPhiE
4<ϕ<-2.62
Entries 44493
Mean 37.7
RMS 5.923
Rec. MC e-
Rec. MC e+
nHitsCommon

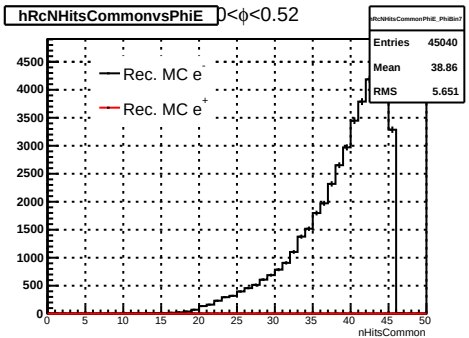

hRcNHitsCommonvsPhiE
2<ϕ<-2.09
Entries 44243
Mean 37.74
RMS 5.804
Rec. MC e-
Rec. MC e+
nHitsCommon

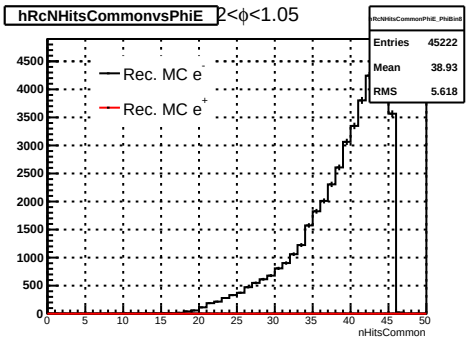

hRcNHitsCommonvsPhiE
9<ϕ<-1.57
Entries 44157
Mean 36.57
RMS 5.957
Rec. MC e-
Rec. MC e+
nHitsCommon

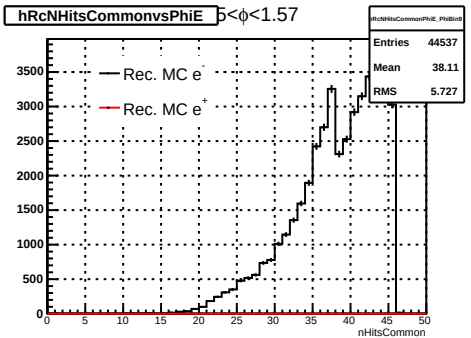

hRcNHitsCommonvsPhiE
7<ϕ<-1.05
Entries 44587
Mean 37.99
RMS 5.703
Rec. MC e-
Rec. MC e+
nHitsCommon

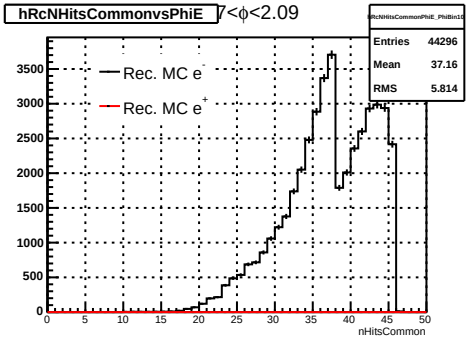

hRcNHitsCommonvsPhiE
5<ϕ<-0.52
Entries 44468
Mean 36.9
RMS 5.702
Rec. MC e-
Rec. MC e+
nHitsCommon

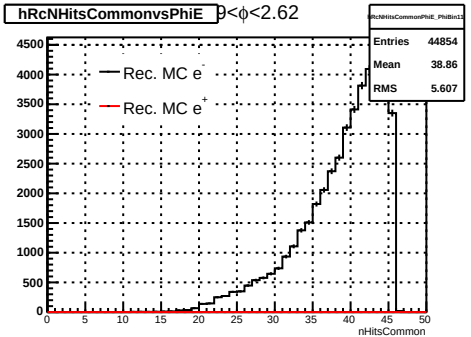

hRcNHitsCommonvsPhiE
2<ϕ<0.00
Entries 44416
Mean 37.06
RMS 5.919
Rec. MC e-
Rec. MC e+
nHitsCommon

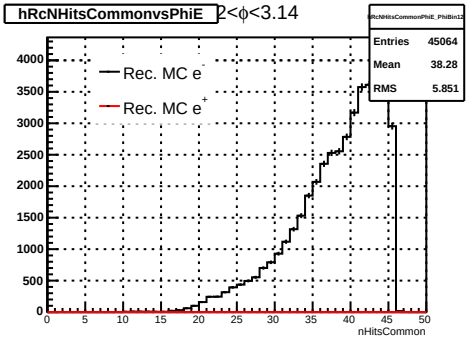

hRcNHitsCommonvsPhiE
0<ϕ<0.52
Entries 45040
Mean 38.86
RMS 5.651
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPhiE
2<ϕ<1.05
Entries 45222
Mean 38.93
RMS 5.618
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPhiE
5<ϕ<1.57
Entries 44537
Mean 38.11
RMS 5.727
Rec. MC e-
Rec. MC e+
nHitsCommon







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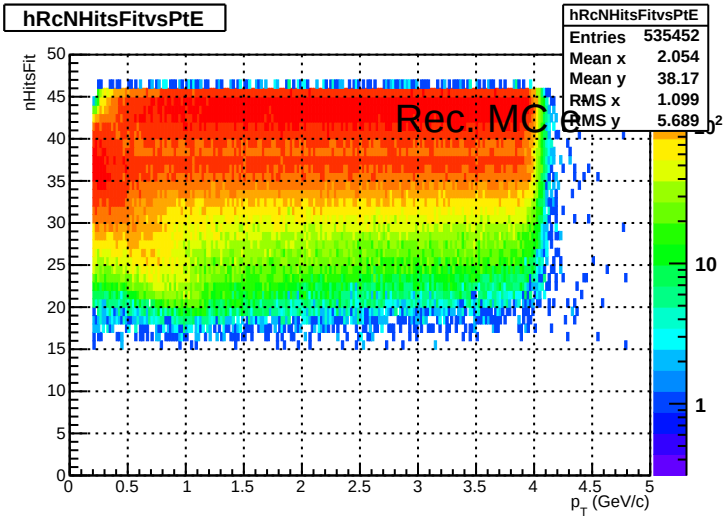
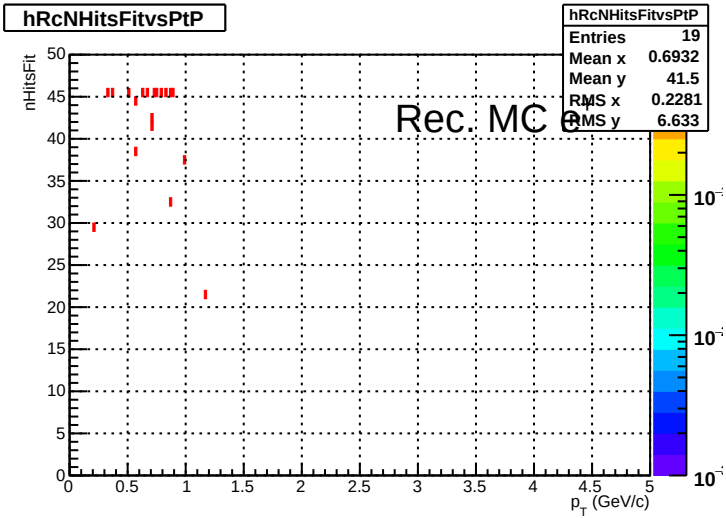

hRcNHitsFitvsPtE
hRcNHitsFitvsPtE
Entries 535452
Mean x 2.054
Mean y 38.17
RMS x 1.099
RMS y 5.689
Rec. MC e-
nHitsFit
p_T (GeV/c)


hRcNHitsFitvsPtP
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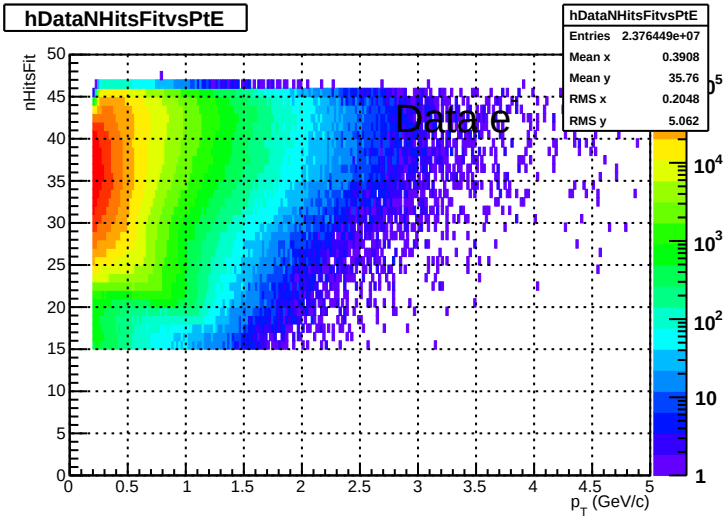
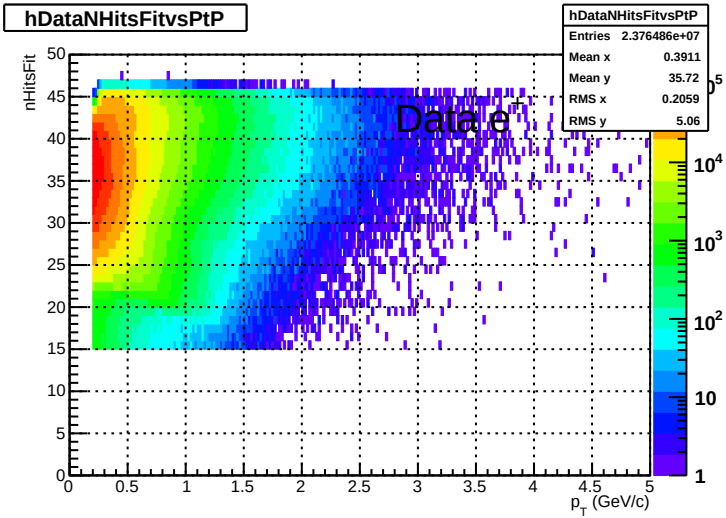
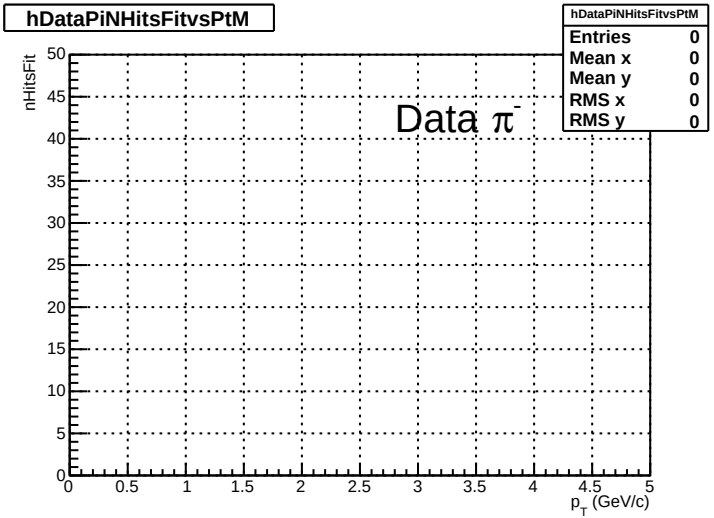
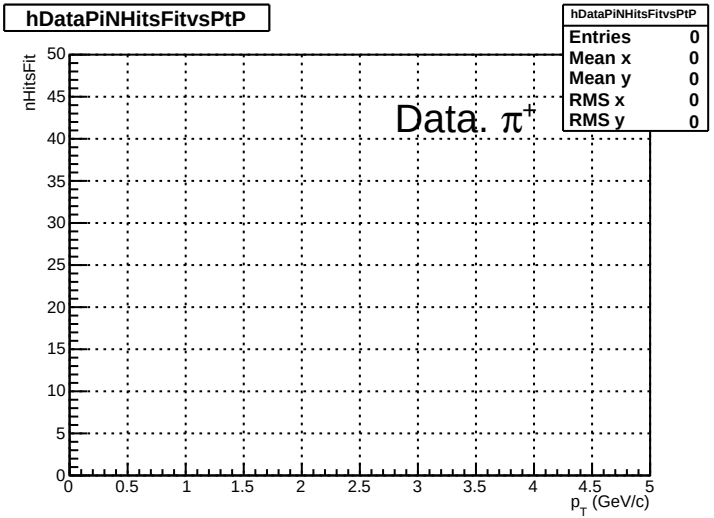
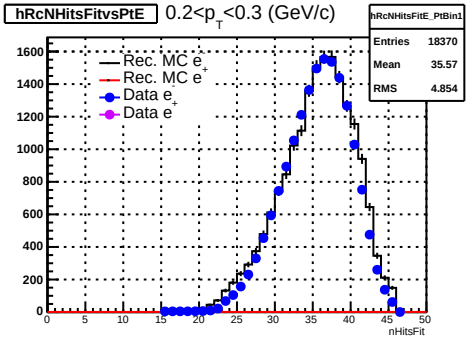
Entries 19
Mean x 0.6932
Mean y 41.5
RMS x 0.2281
RMS y 6.633
Rec. MC e+
nHitsFit
p_T (GeV/c)

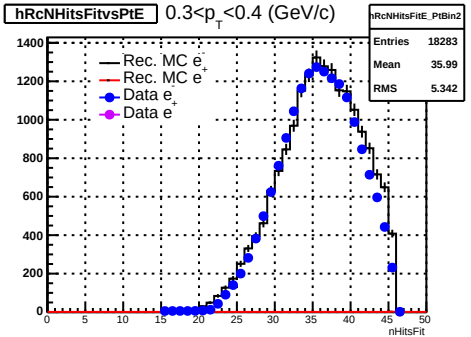

hDataNHitsFitvsPtE
hDataNHitsFitvsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 35.76
RMS x 0.2048
RMS y 5.062
Data e-
nHitsFit
p_T (GeV/c)

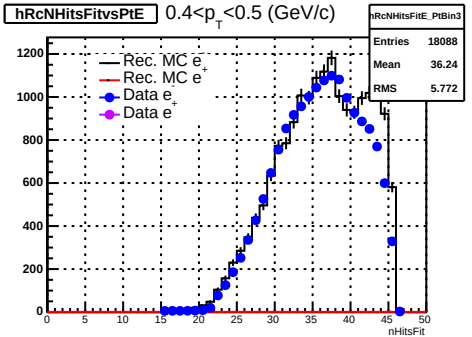

hDataNHitsFitvsPtP
hDataNHitsFitvsPtP
Entries 2.376486e+07
Mean x 0.3911
Mean y 35.72
RMS x 0.2059
RMS y 5.06
Data e+
nHitsFit
p_T (GeV/c)

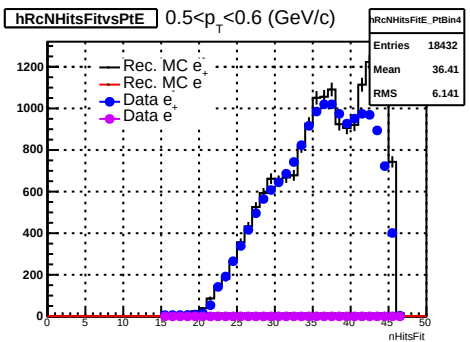

hDataPiNHitsFitvsPtM
hDataPiNHitsFitvsPtM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsFit
pT (GeV/c)

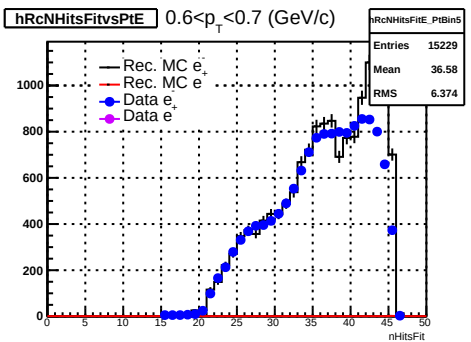

hDataPiNHitsFitvsPtP
hDataPiNHitsFitvsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsFit
pT (GeV/c)

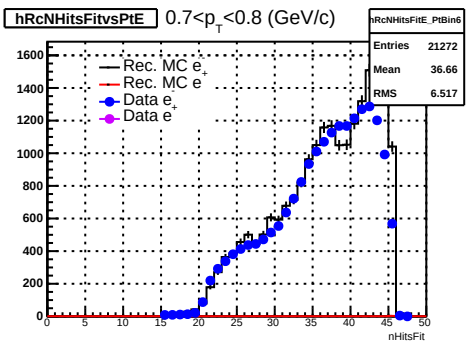

hRcNHitsFitvsPtE
0.2<p_T<0.3 (GeV/c)
hRcNHitsFitE_PtBin1
Entries 18370
Mean 35.57
RMS 4.854
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

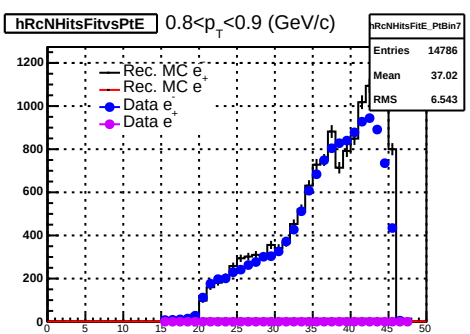

hRcNHitsFitvsPtE
0.3<p_T<0.4 (GeV/c)
hRcNHitsFitE_PtBin2
Entries 18283
Mean 35.99
RMS 5.342
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

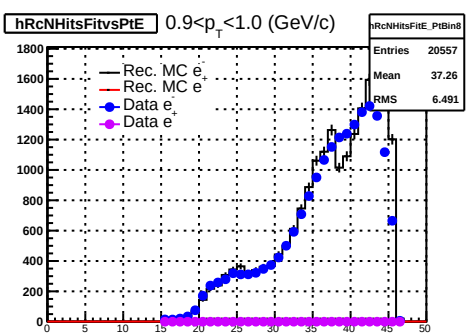

hRcNHitsFitvsPtE
0.4<p_T<0.5 (GeV/c)
hRcNHitsFitE_PtBin3
Entries 18088
Mean 36.24
RMS 5.772
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

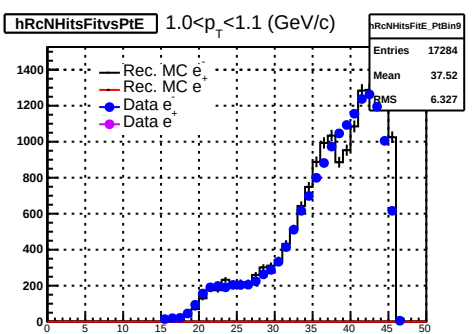

hRcNHitsFitvsPtE
0.5<p_T<0.6 (GeV/c)
hRcNHitsFitE_PtBin4
Entries 18432
Mean 36.41
RMS 6.141
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

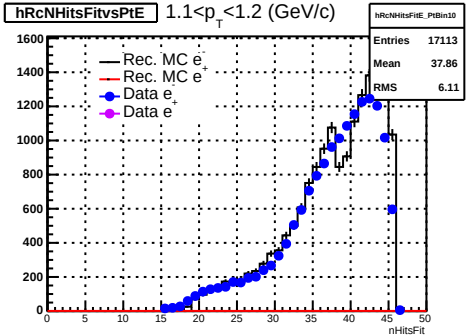

hRcNHitsFitvsPtE
0.6<p_T<0.7 (GeV/c)
hRcNHitsFitE_PtBin5
Entries 15229
Mean 36.58
RMS 6.374
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

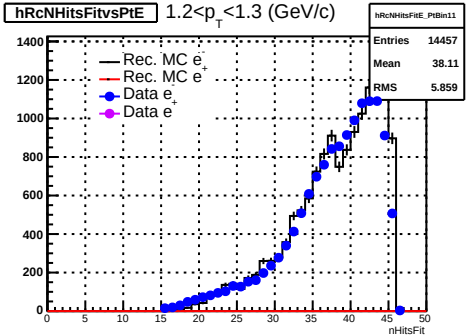

hRcNHitsFitvsPtE
0.7<p_T<0.8 (GeV/c)
hRcNHitsFitE_PtBin6
Entries 21272
Mean 36.66
RMS 6.517
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

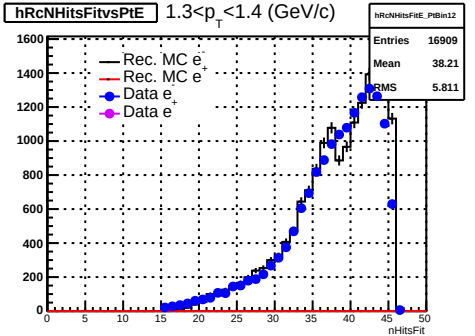

hRcNHitsFitvsPtE
0.8<p_T<0.9 (GeV/c)
hRcNHitsFitE_PtBin7
Entries 14786
Mean 37.02
RMS 6.543
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsPtE
0.9<p_T<1.0 (GeV/c)
hRcNHitsFitE_PtBin8
Entries 20557
Mean 37.26
RMS 6.491
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsPtE
1.0<p_T<1.1 (GeV/c)
hRcNHitsFitE_PtBin9
Entries 17284
Mean 37.52
RMS 6.327
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsPtE
1.1<p_T<1.2 (GeV/c)
hRcNHitsFitE_PtBin10
Entries 17113
Mean 37.86
RMS 6.11
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsPtE
1.2<p_T<1.3 (GeV/c)
hRcNHitsFitE_PtBin11
Entries 14457
Mean 38.11
RMS 5.859
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsPtE
1.3<p_T<1.4 (GeV/c)
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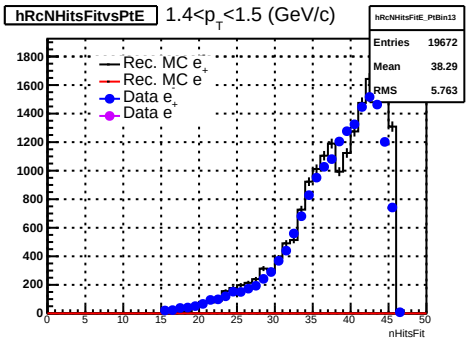
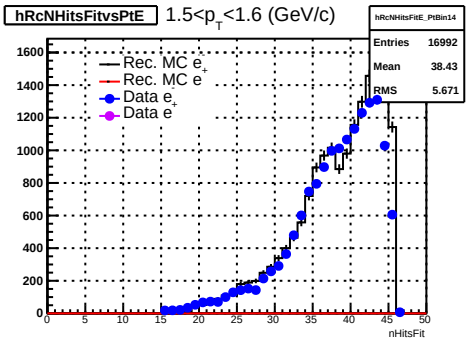
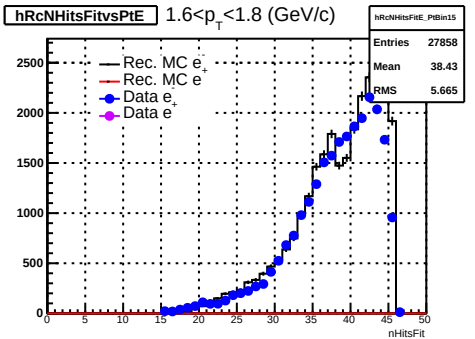
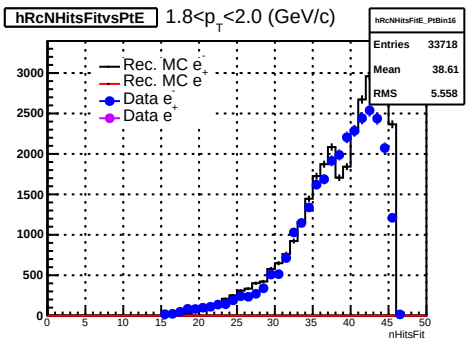
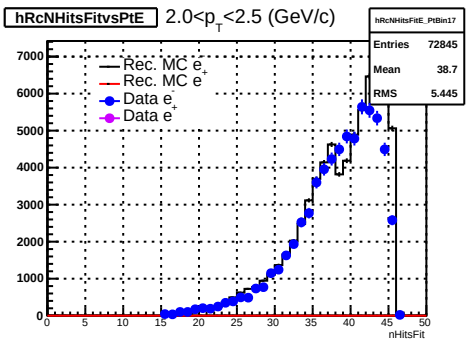
Entries 16909
Mean 38.21
RMS 5.811
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

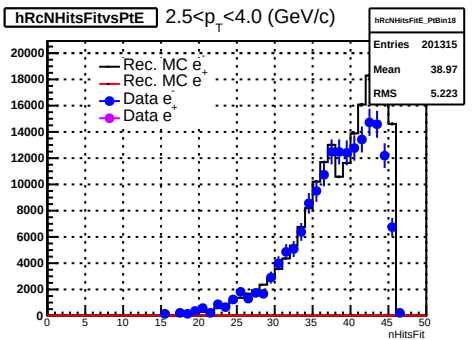

hRcNHitsFitvsPtE
1.4<p_T<1.5 (GeV/c)
hRcNHitsFitE_PtBin13
Entries 19672
Mean 38.29
RMS 5.763
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

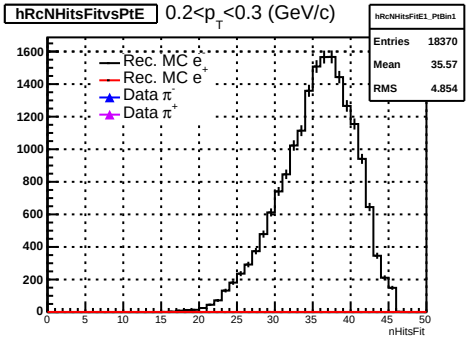

hRcNHitsFitvsPtE
1.5<p_T<1.6 (GeV/c)
hRcNHitsFitE_PtBin14
Entries 16992
Mean 38.43
RMS 5.671
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

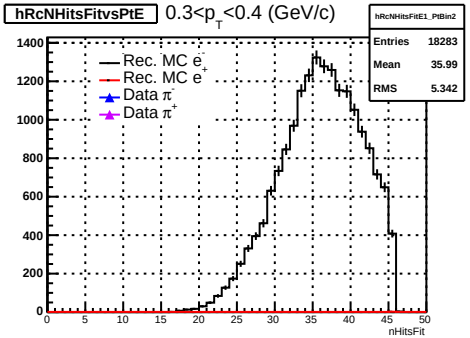

hRcNHitsFitvsPtE
1.6<p_T<1.8 (GeV/c)
hRcNHitsFitE_PtBin15
Entries 27858
Mean 38.43
RMS 5.665
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

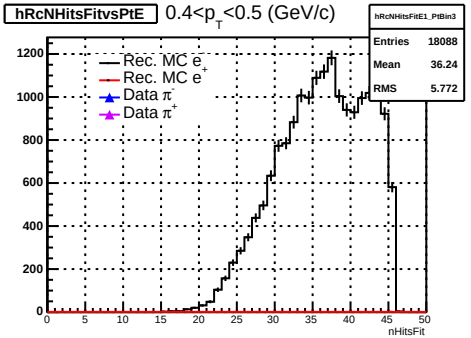

hRcNHitsFitvsPtE
1.8<p_T<2.0 (GeV/c)
hRcNHitsFitE_PtBin16
Entries 33718
Mean 38.61
RMS 5.558
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

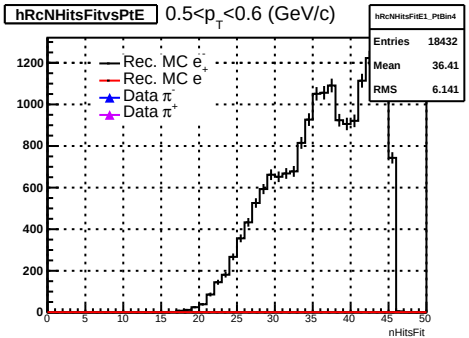

hRcNHitsFitvsPtE
2.0<p_T<2.5 (GeV/c)
hRcNHitsFitE_PtBin17
Entries 72845
Mean 38.7
RMS 5.445
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

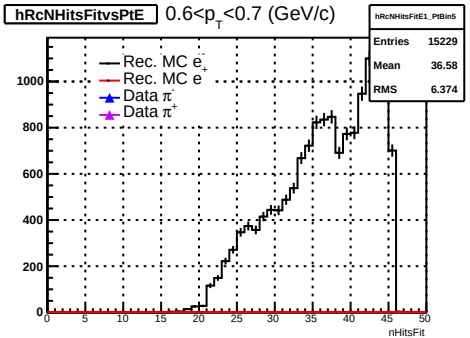

hRcNHitsFitvsPtE
2.5<p_T<4.0 (GeV/c)
hRcNHitsFitE_PtBin18
Entries 201315
Mean 38.97
RMS 5.223
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

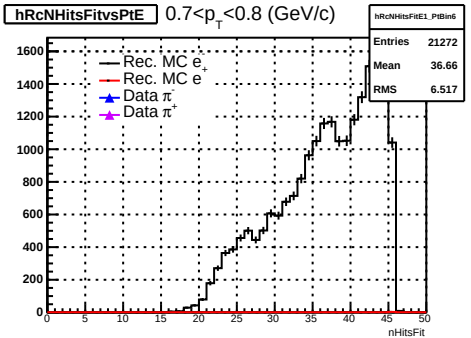

hRcNHitsFitvsPtE
0.2<p_T<0.3 (GeV/c)
hRcNHitsFitE1_PtBin1
Entries 18370
Mean 35.57
RMS 4.854
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

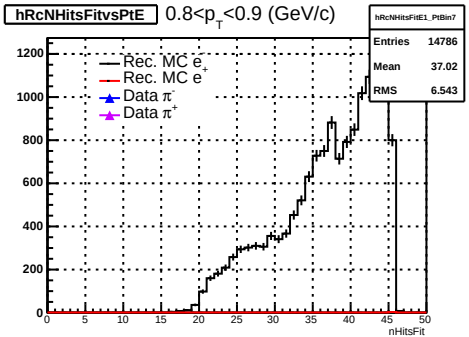

hRcNHitsFitvsPtE
0.3<p_T<0.4 (GeV/c)
hRcNHitsFitE1_PtBin2
Entries 18283
Mean 35.99
RMS 5.342
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

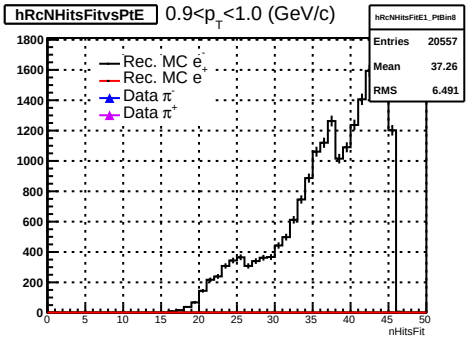

hRcNHitsFitvsPtE
0.4<p_T<0.5 (GeV/c)
hRcNHitsFitE1_PtBin3
Entries 18088
Mean 36.24
RMS 5.772
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

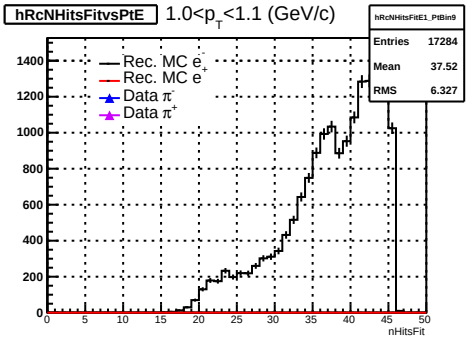

hRcNHitsFitvsPtE
0.5<p_T<0.6 (GeV/c)
hRcNHitsFitE1_PtBin4
Entries 18432
Mean 36.41
RMS 6.141
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

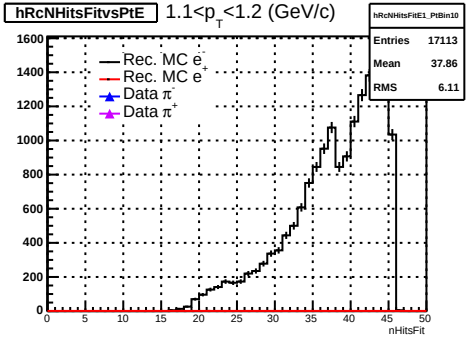

hRcNHitsFitvsPtE
0.6<p_T<0.7 (GeV/c)
hRcNHitsFitE1_PtBin5
Entries 15229
Mean 36.58
RMS 6.374
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

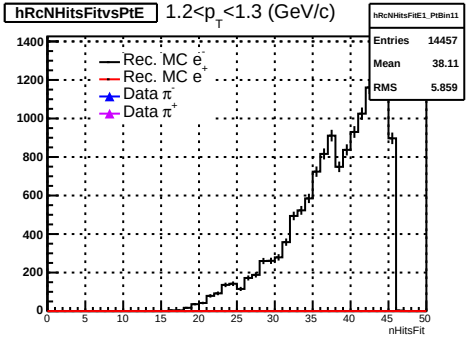

hRcNHitsFitvsPtE
0.7<p_T<0.8 (GeV/c)
hRcNHitsFitE1_PtBin6
Entries 21272
Mean 36.66
RMS 6.517
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

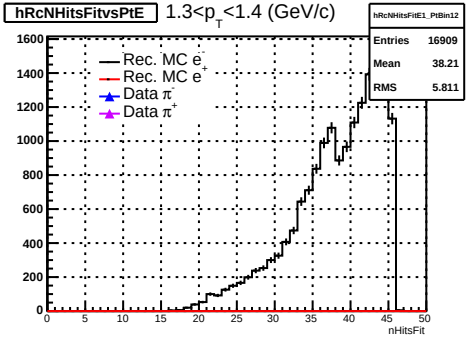

hRcNHitsFitvsPtE
0.8<p_T<0.9 (GeV/c)
hRcNHitsFitE1_PtBin7
Entries 14786
Mean 37.02
RMS 6.543
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

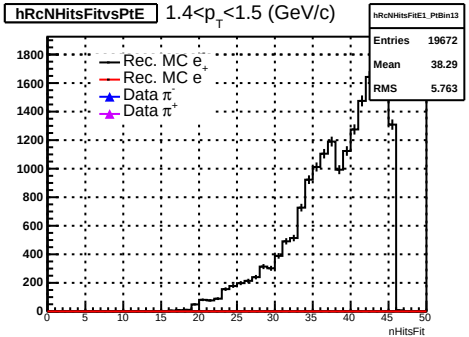

hRcNHitsFitvsPtE
0.9<p_T<1.0 (GeV/c)
hRcNHitsFitE1_PtBin8
Entries 20557
Mean 37.26
RMS 6.491
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

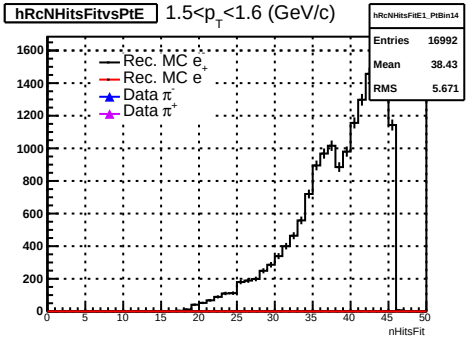

hRcNHitsFitvsPtE
1.0<p_T<1.1 (GeV/c)
hRcNHitsFitE1_PtBin9
Entries 17284
Mean 37.52
RMS 6.327
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

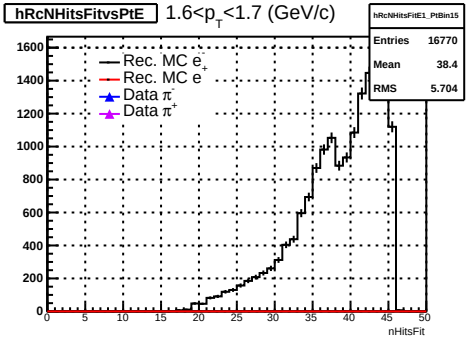

hRcNHitsFitvsPtE
1.1<p_T<1.2 (GeV/c)
hRcNHitsFitE1_PtBin10
Entries 17113
Mean 37.86
RMS 6.11
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

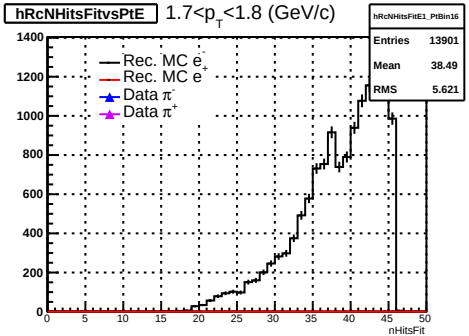

hRcNHitsFitvsPtE
1.2<p_T<1.3 (GeV/c)
hRcNHitsFitE1_PtBin11
Entries 14457
Mean 38.11
RMS 5.859
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

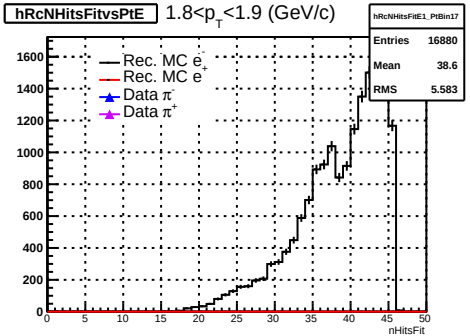

hRcNHitsFitvsPtE
1.3<p_T<1.4 (GeV/c)
hRcNHitsFitE1_PtBin12
Entries 16909
Mean 38.21
RMS 5.811
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

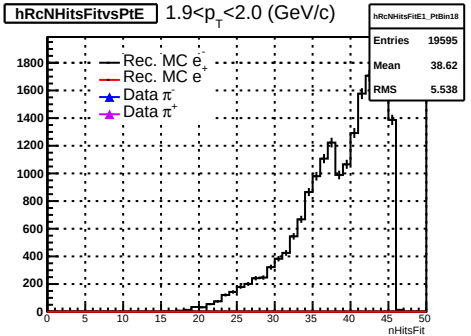

hRcNHitsFitvsPtE
1.4<p_T<1.5 (GeV/c)
hRcNHitsFitE1_PtBin13
Entries 19672
Mean 38.29
RMS 5.763
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

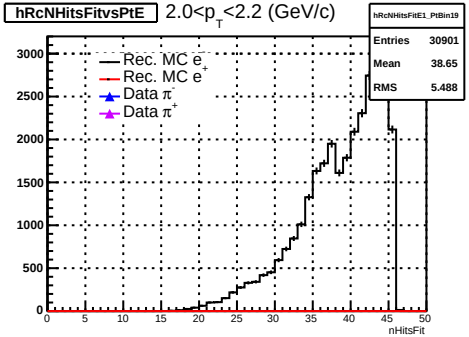

hRcNHitsFitvsPtE
1.5<p_T<1.6 (GeV/c)
hRcNHitsFitE1_PtBin14
Entries 16992
Mean 38.43
RMS 5.671
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

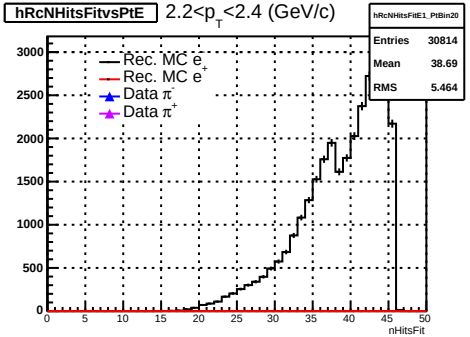

hRcNHitsFitvsPtE
1.6<p_T<1.7 (GeV/c)
hRcNHitsFitE1_PtBin15
Entries 16770
Mean 38.4
RMS 5.704
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

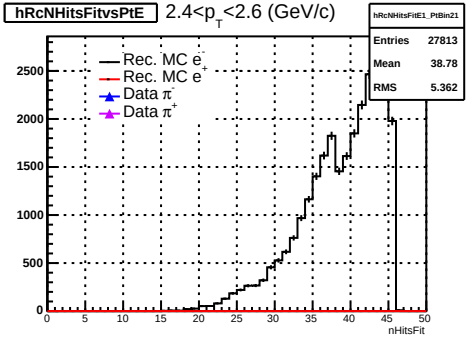

hRcNHitsFitvsPtE
1.7<p_T<1.8 (GeV/c)
hRcNHitsFitE1_PtBin16
Entries 13901
Mean 38.49
RMS 5.621
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

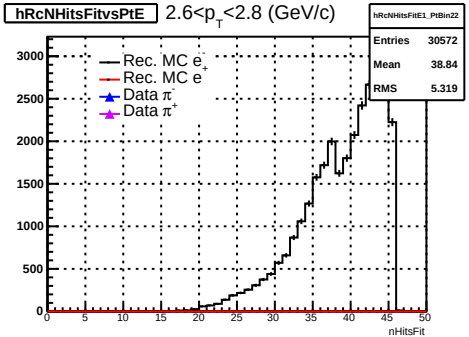

hRcNHitsFitvsPtE
1.8<p_T<1.9 (GeV/c)
hRcNHitsFitE1_PtBin17
Entries 16880
Mean 38.6
RMS 5.583
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

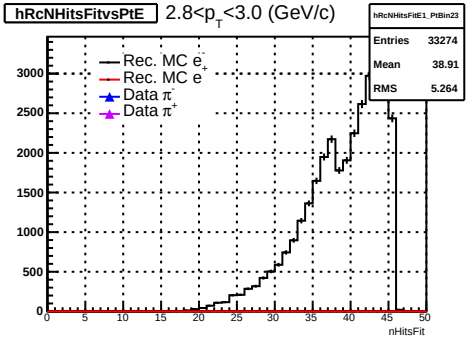

hRcNHitsFitvsPtE
1.9<p_T<2.0 (GeV/c)
hRcNHitsFitE1_PtBin18
Entries 19595
Mean 38.62
RMS 5.538
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

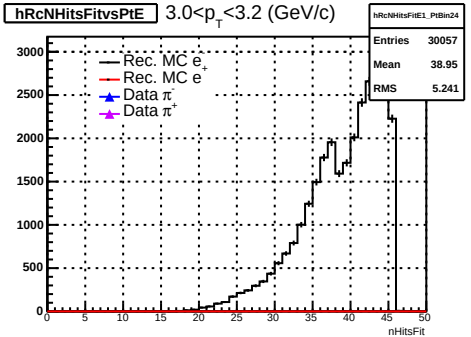

hRcNHitsFitvsPtE
2.0<p_T<2.2 (GeV/c)
hRcNHitsFitE1_PtBin19
Entries 30901
Mean 38.65
RMS 5.488
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

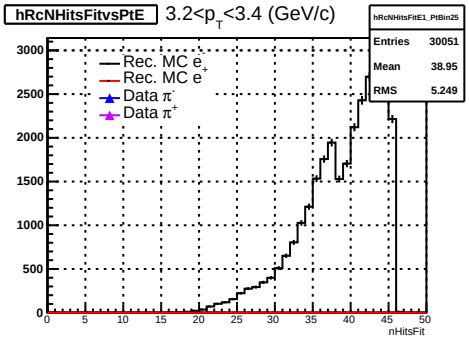

hRcNHitsFitvsPtE
2.2<p_T<2.4 (GeV/c)
hRcNHitsFitE1_PtBin20
Entries 30814
Mean 38.69
RMS 5.464
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

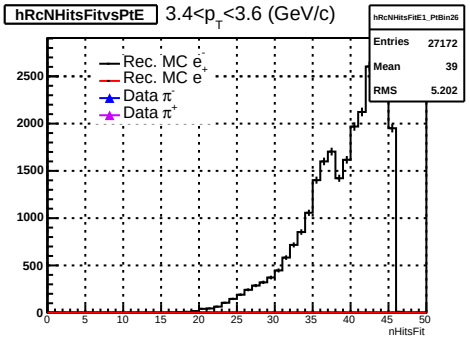

hRcNHitsFitvsPtE
2.4<p_T<2.6 (GeV/c)
hRcNHitsFitE1_PtBin21
Entries 27813
Mean 38.78
RMS 5.362
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

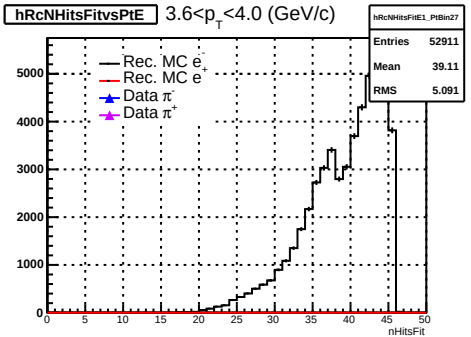

hRcNHitsFitvsPtE
2.6<p_T<2.8 (GeV/c)
hRcNHitsFitE1_PtBin22
Entries 30572
Mean 38.84
RMS 5.319
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

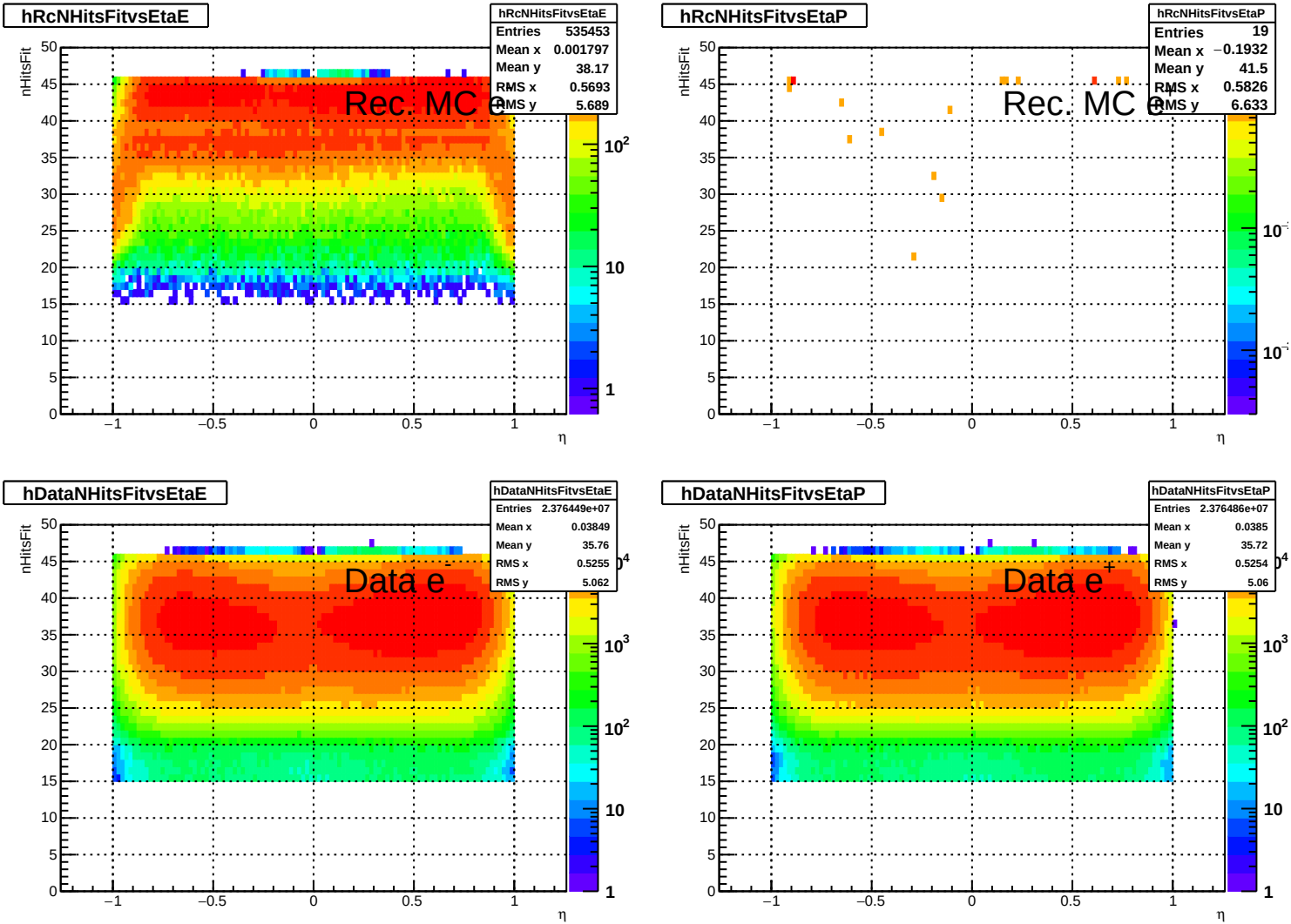

hRcNHitsFitvsPtE
2.8<p_T<3.0 (GeV/c)
hRcNHitsFitE1_PtBin23
Entries 33274
Mean 38.91
RMS 5.264
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

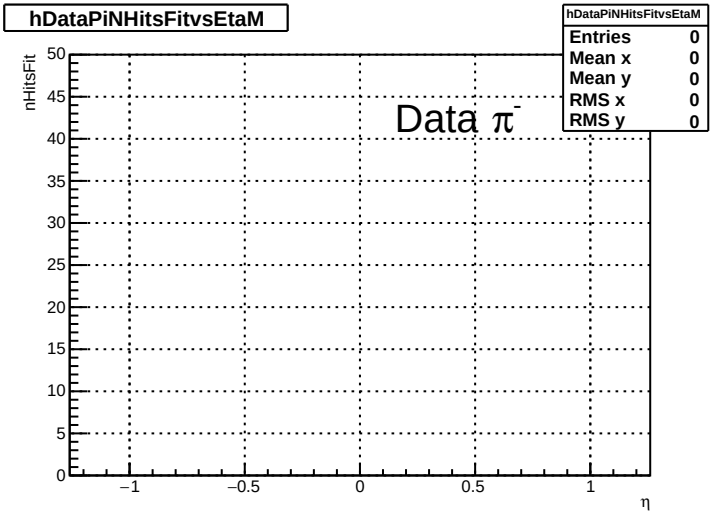

hRcNHitsFitvsPtE
3.0<p_T<3.2 (GeV/c)
hRcNHitsFitE1_PtBin24
Entries 30057
Mean 38.95
RMS 5.241
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPtE
3.2<p_T<3.4 (GeV/c)
hRcNHitsFitE1_PtBin25
Entries 30051
Mean 38.95
RMS 5.249
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPtE
3.4<p_T<3.6 (GeV/c)
hRcNHitsFitE1_PtBin26
Entries 27172
Mean 39
RMS 5.202
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPtE
3.6<p_T<4.0 (GeV/c)
hRcNHitsFitE1_PtBin27
Entries 52911
Mean 39.11
RMS 5.091
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsEtaE
hRcNHitsFitvsEtaE
Entries 535453
Mean x 0.001797
Mean y 38.17
RMS x 0.5693
RMS y 5.689
Rec. MC e
hRcNHitsFitvsEtaP
hRcNHitsFitvsEtaP
Entries 19
Mean x −0.1932
Mean y 41.5
RMS x 0.5826
RMS y 6.633
Rec. MC e
hDataNHitsFitvsEtaE
hDataNHitsFitvsEtaE
Entries 2.376449e+07
Mean x 0.03849
Mean y 35.76
RMS x 0.5255
RMS y 5.062
Data e
hDataNHitsFitvsEtaP
hDataNHitsFitvsEtaP
Entries 2.376486e+07
Mean x 0.0385
Mean y 35.72
RMS x 0.5254
RMS y 5.06
Data e+
nHitsFit
η


hDataPiNHitsFitvsEtaM
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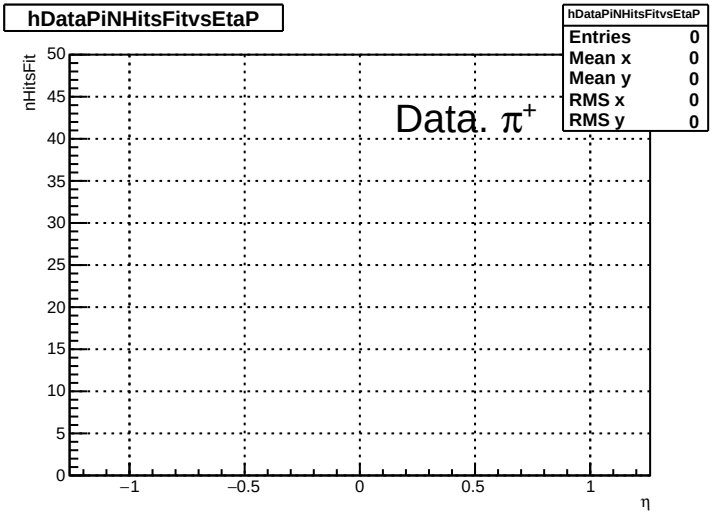
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsFit
η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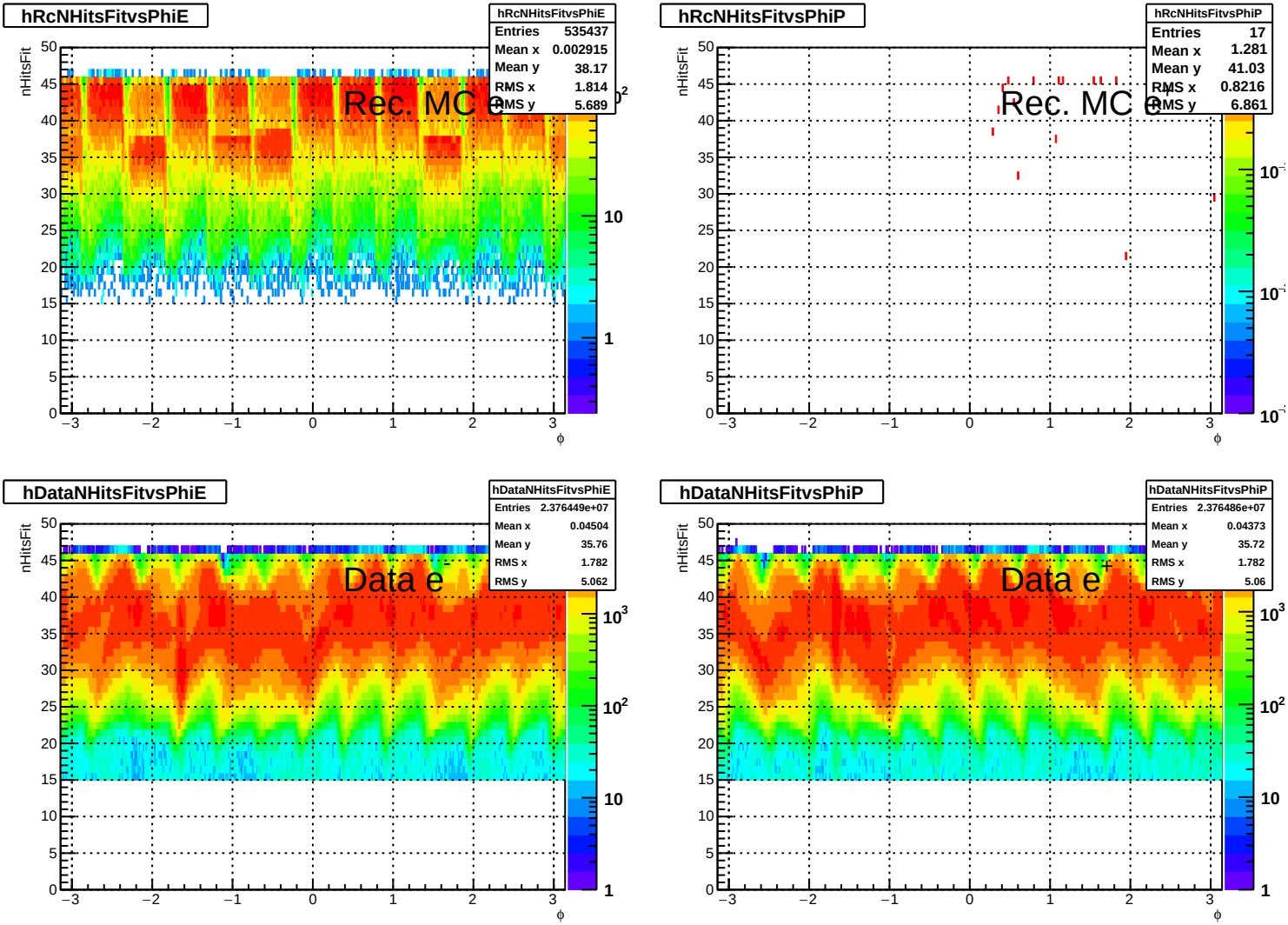
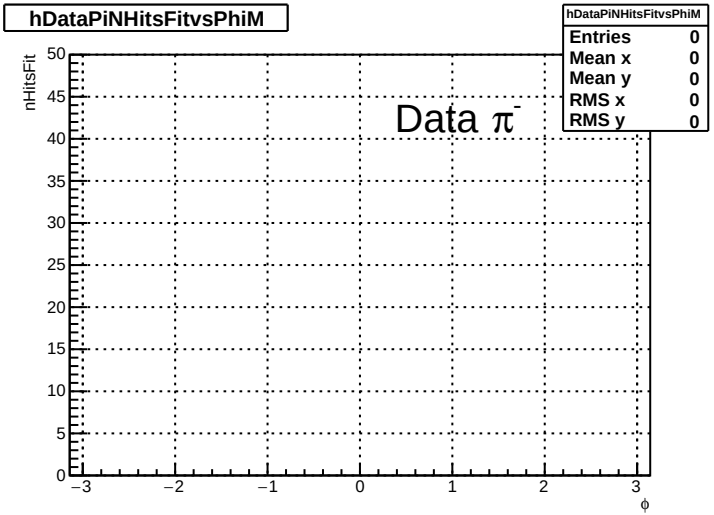
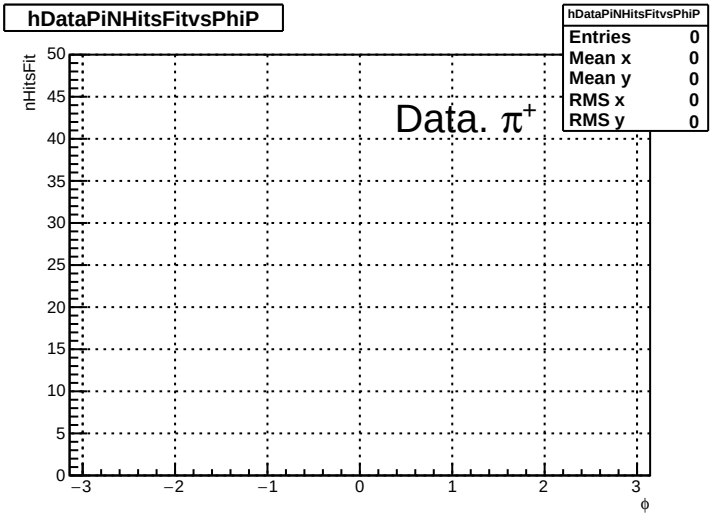
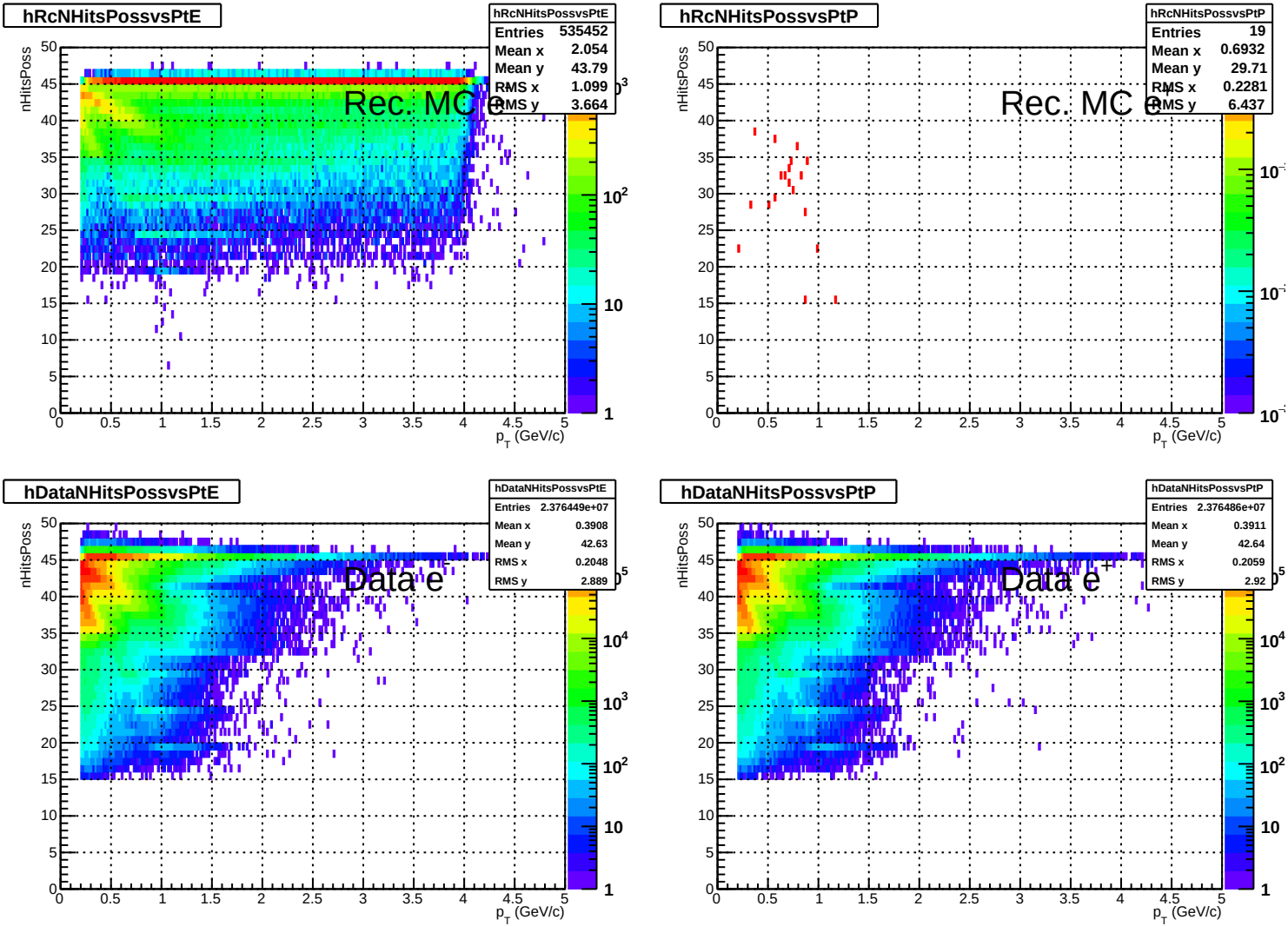
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsFit
η


hRcNHitsFitvsPhiE
hRcNHitsFitvsPhiE
Entries 535437
Mean x 0.002915
Mean y 38.17
RMS x 1.814
RMS y 5.689
Rec. MC e
hRcNHitsFitvsPhiP
hRcNHitsFitvsPhiP
Entries 17
Mean x 1.281
Mean y 41.03
RMS x 0.8216
RMS y 6.861
Rec. MC e
hDataNHitsFitvsPhiE
hDataNHitsFitvsPhiE
Entries 2.376449e+07
Mean x 0.04504
Mean y 35.76
RMS x 1.782
RMS y 5.062
Data e-
hDataNHitsFitvsPhiP
hDataNHitsFitvsPhiP
Entries 2.376486e+07
Mean x 0.04373
Mean y 35.72
RMS x 1.782
RMS y 5.06
Data e+
nHitsFit
ϕ


hDataPiNHitsFitvsPhiM
hDataPiNHitsFitvsPhiM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsFit
ϕ


hDataPiNHitsFitvsPhiP
hDataPiNHitsFitvsPhiP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsFit
ϕ


hRcNHitsPossvsPtE
hRcNHitsPossvsPtE
Entries 535452
Mean x 2.054
Mean y 43.79
RMS x 1.099
RMS y 3.664
Rec. MC e
nHitsPoss
p_T (GeV/c)
hRcNHitsPossvsPtP
hRcNHitsPossvsPtP
Entries 19
Mean x 0.6932
Mean y 29.71
RMS x 0.2281
RMS y 6.437
Rec. MC e
nHitsPoss
p_T (GeV/c)
hDataNHitsPossvsPtE
hDataNHitsPossvsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 42.63
RMS x 0.2048
RMS y 2.889
Data e
nHitsPoss
p_T (GeV/c)
hDataNHitsPossvsPtP
hDataNHitsPossvsPtP
Entries 2.376486e+07
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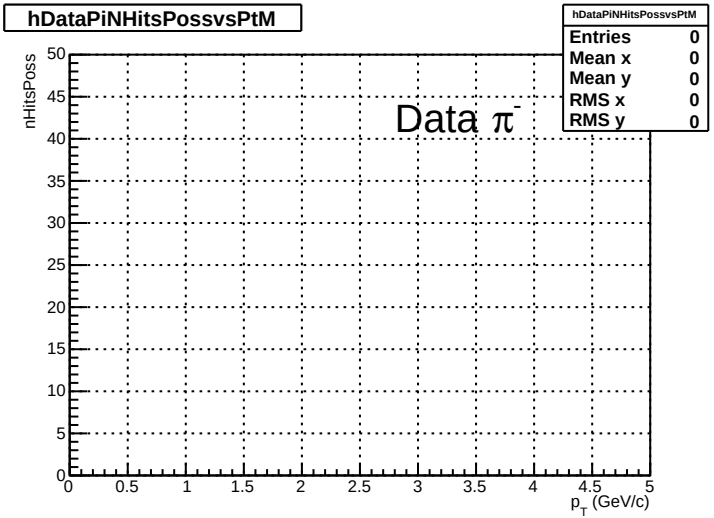
Mean y 42.64
RMS x 0.2059
RMS y 2.92
Data e
nHitsPoss
p_T (GeV/c)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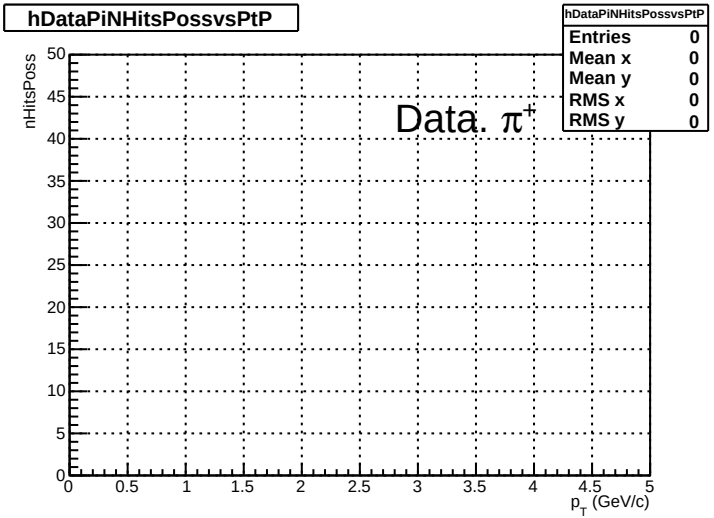
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsPoss
p_T (GeV/c)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Mean y 0
RMS x 0
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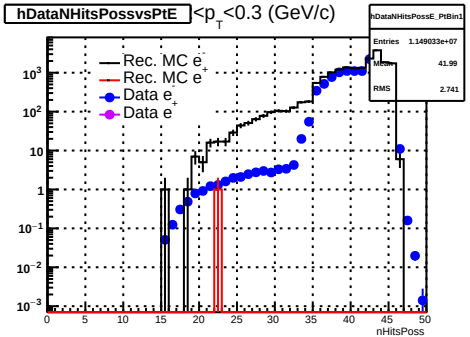
nHitsPoss
p_T (GeV/c)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Entries 1.149033e+07
Mean 41.99
RMS 2.741
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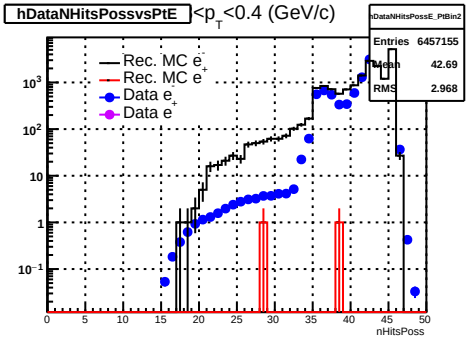
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 6457155
Mean 42.69
RMS 2.968
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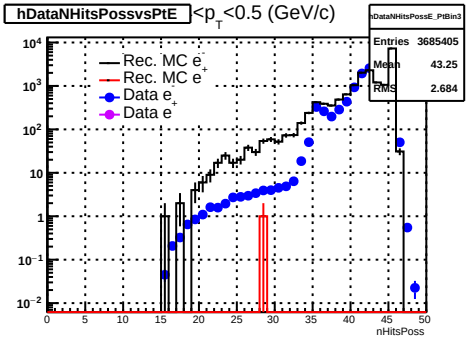
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 3685405
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RMS 2.684
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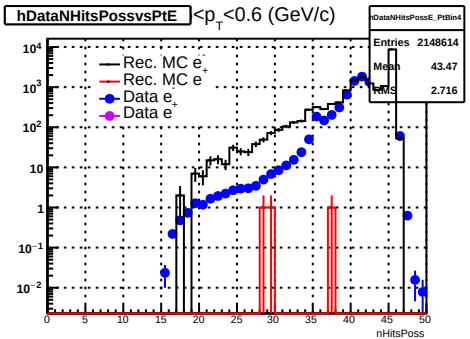
Data e-
nHitsPoss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Entries 2148614
Mean 43.47
RMS 2.716
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Rec. MC e-
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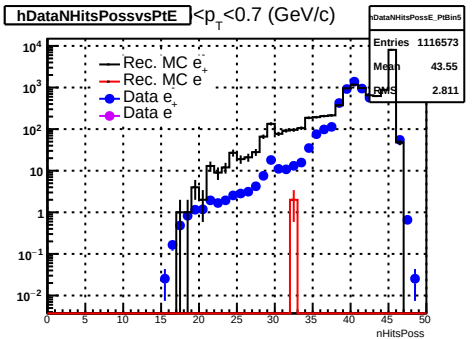
Data e-
nHitsPoss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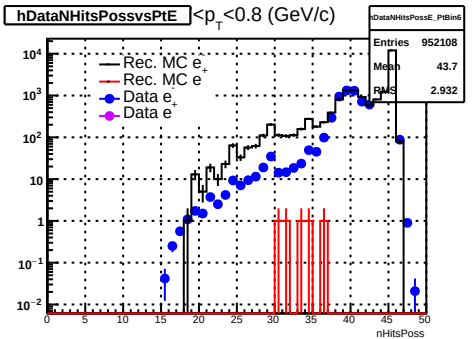
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 952108
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RMS 2.932
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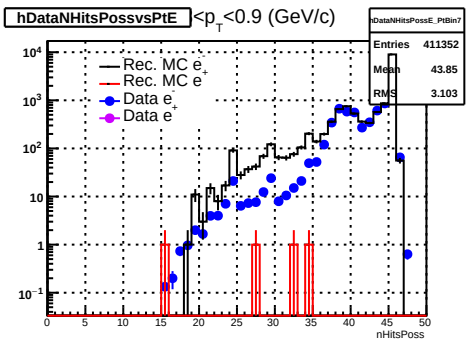
Rec. MC e-
Data e+
Data e-
nHitsPoss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RMS 3.103
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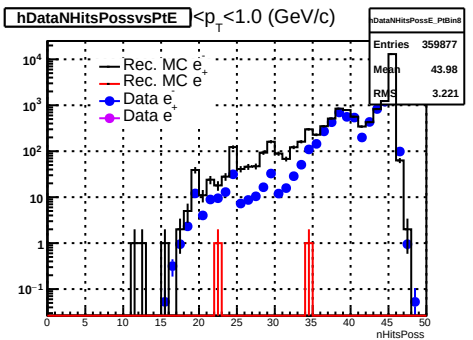
Rec. MC e-
Data e+
Data e-
nHitsPoss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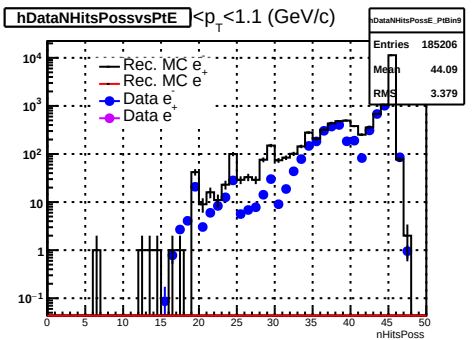
Entries 359877
Mean 43.98
RMS 3.221
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 185206
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RMS 3.379
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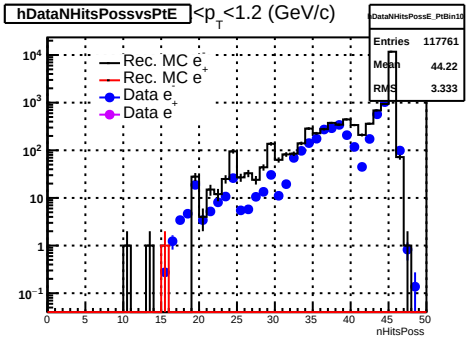
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 117761
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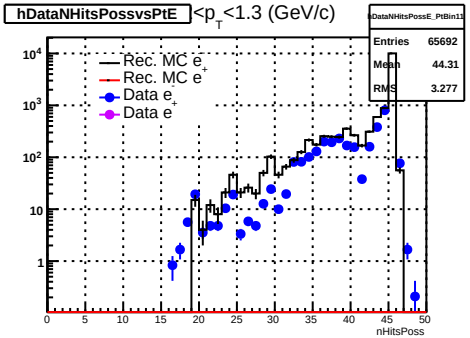
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 65692
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RMS 3.277
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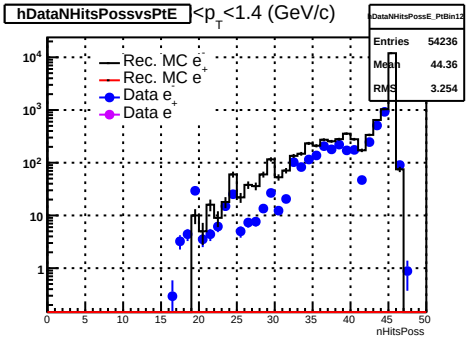
Rec. MC e-
Data e+
Data e-
nHitsPoss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RMS 3.254
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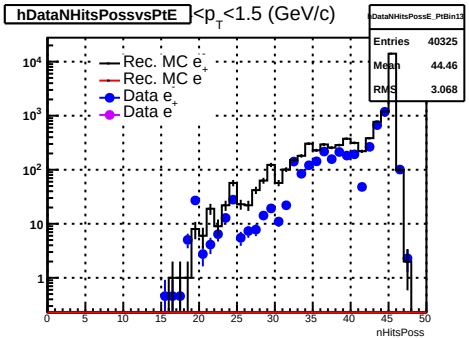
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 40325
Mean 44.46
RMS 3.068
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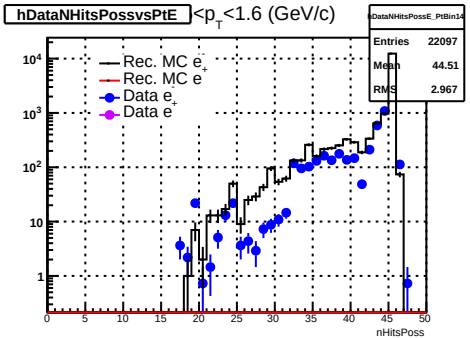
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 22097
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RMS 2.967
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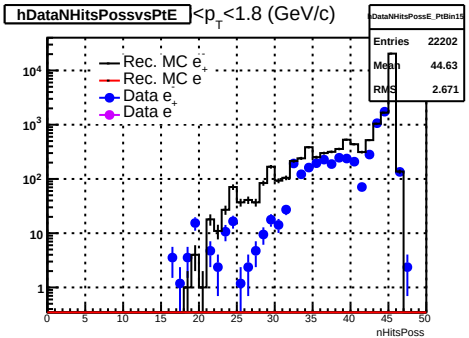
Rec. MC e-
Data e+
Data e-
nHitsPoss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<p_T<1.8 (GeV/c)
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Entries 22202
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RMS 2.671
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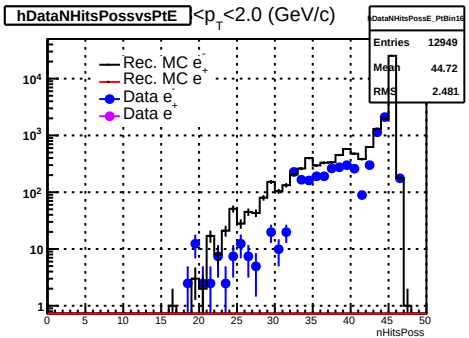
Rec. MC e-
Data e+
Data e-
nHitsPoss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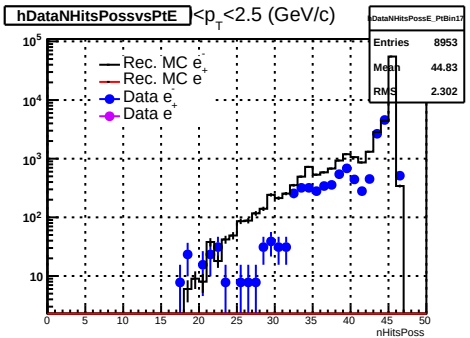
Entries 12949
Mean 44.72
RMS 2.481
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 8953
Mean 44.83
RMS 2.302
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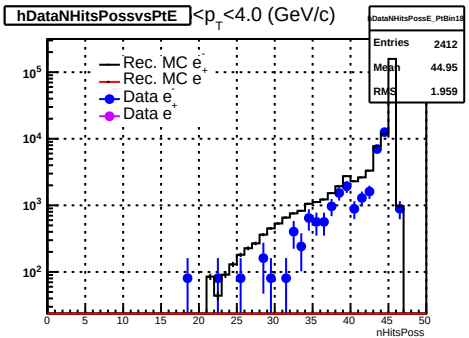
Rec. MC e-
Data e+
Data e-
nHitsPoss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<p_T<4.0 (GeV/c)
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Entries 2412
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RMS 1.959
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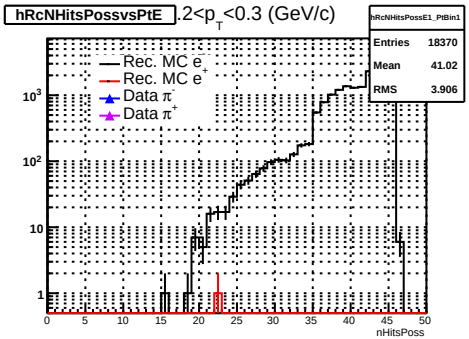
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 18370
Mean 41.02
RMS 3.906
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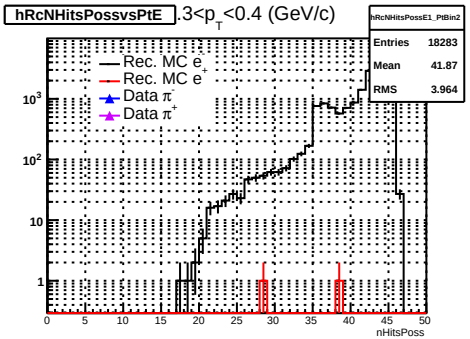
Rec. MC e-
Data π-
Data π+
nHitsPoss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Entries 18283
Mean 41.87
RMS 3.964
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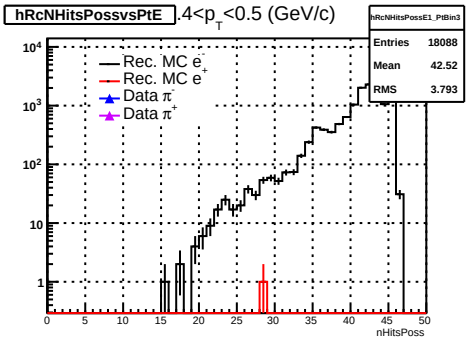
Rec. MC e-
Data π-
Data π+
nHitsPoss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Entries 18088
Mean 42.52
RMS 3.793
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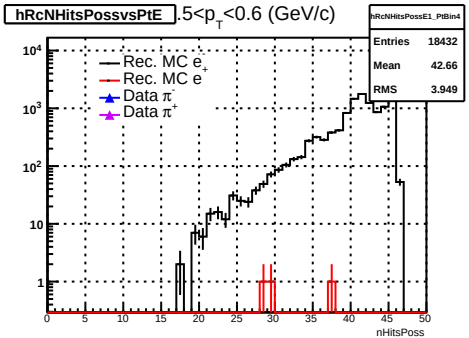
Rec. MC e-
Data π-
Data π+
nHitsPoss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Entries 18432
Mean 42.66
RMS 3.949
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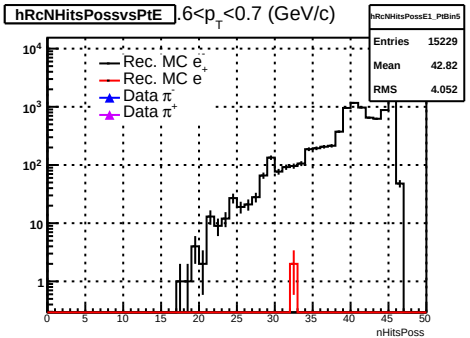
Rec. MC e-
Data π-
Data π+
nHitsPoss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Entries 15229
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RMS 4.052
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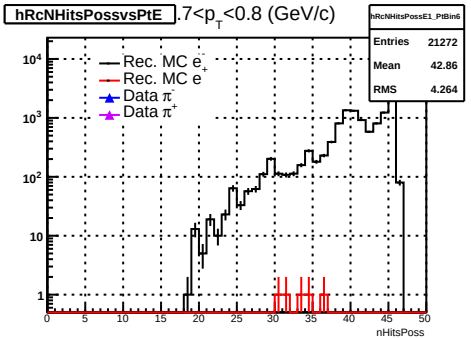
Rec. MC e-
Data π-
Data π+
nHitsPoss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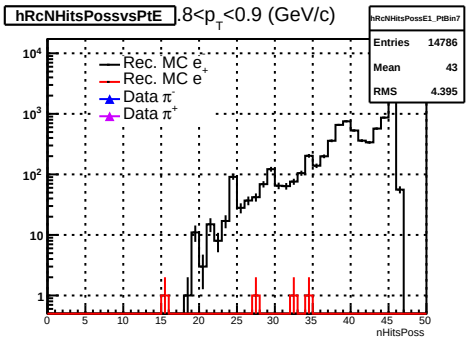
RMS 4.264
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss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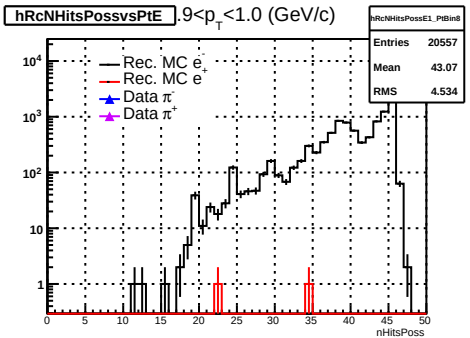
Entries 14786
Mean 43
RMS 4.395
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss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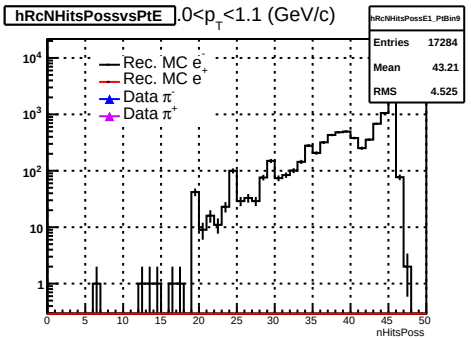
Entries 20557
Mean 43.07
RMS 4.534
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss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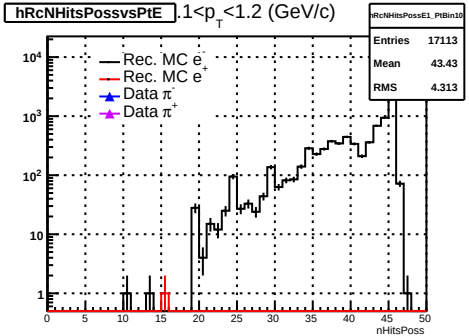
Entries 17284
Mean 43.21
RMS 4.525
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss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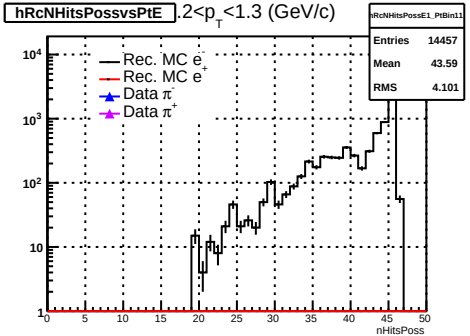
Entries 17113
Mean 43.43
RMS 4.313
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss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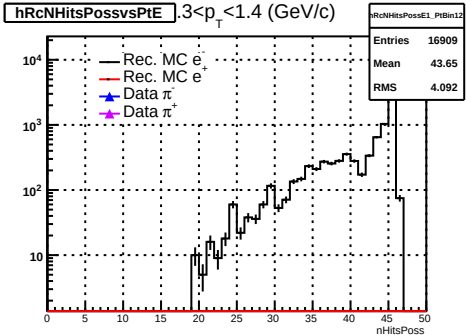
Entries 14457
Mean 43.59
RMS 4.101
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss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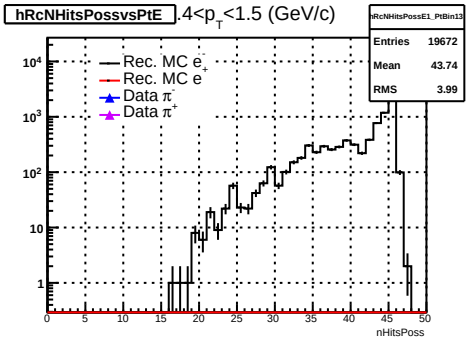
hRcNHitsPossE1_PtBin12
Entries 16909
Mean 43.65
RMS 4.092
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss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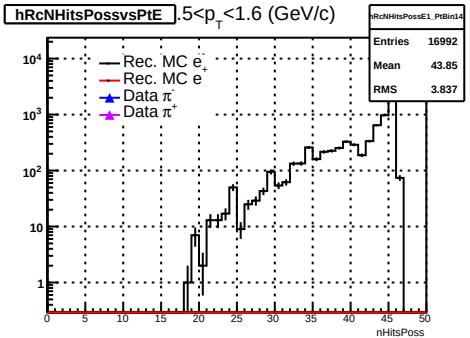
Entries 19672
Mean 43.74
RMS 3.99
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss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Entries 16992
Mean 43.85
RMS 3.837
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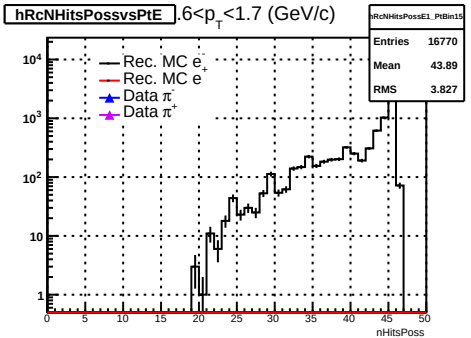
Rec. MC e+
Data π-
Data π+
nHitsPoss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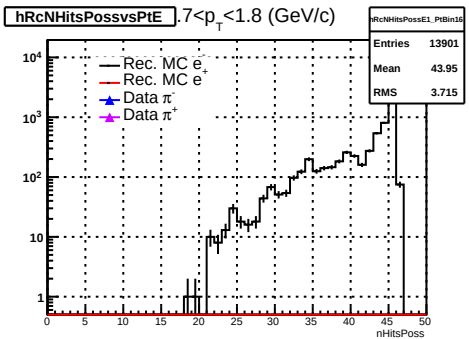
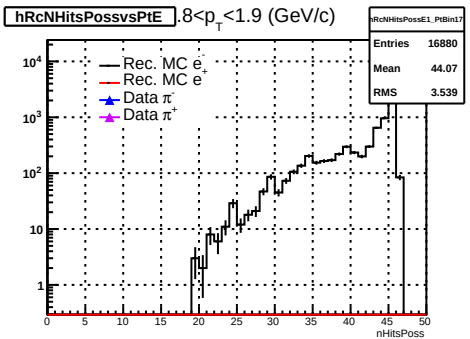
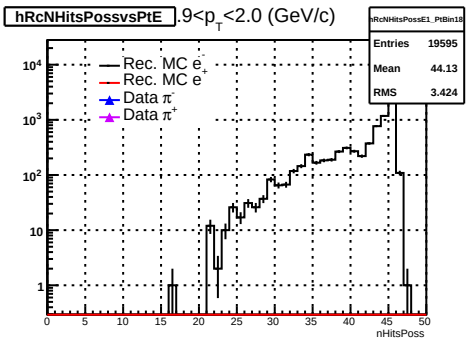
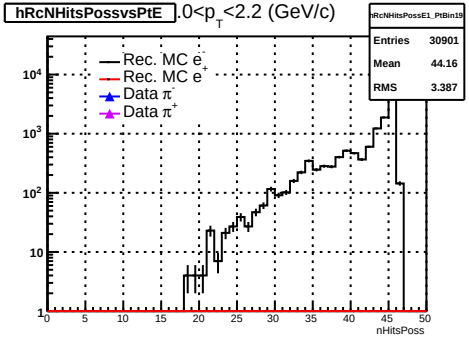
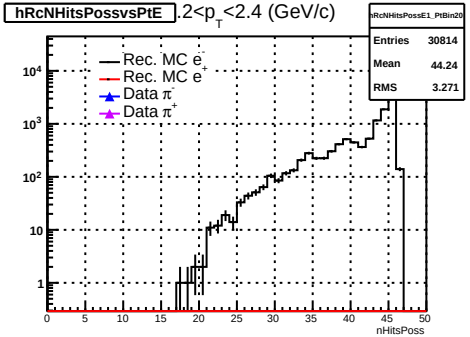
hRcNHitsPossE1_PtBin15
Entries 16770
Mean 43.89
RMS 3.827
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

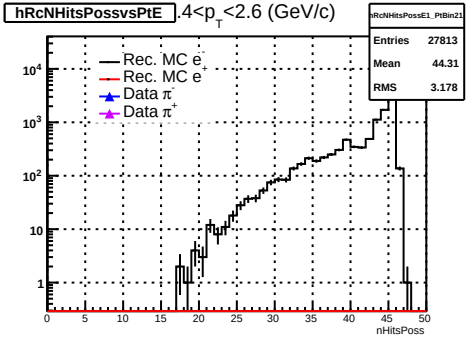

hRcNHitsPossvsPtE .7<p_T<1.8 (GeV/c)
hRcNHitsPossE1_PtBin16
Entries 13901
Mean 43.95
RMS 3.715
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

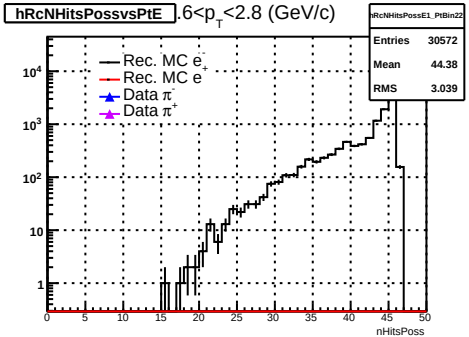

hRcNHitsPossvsPtE .8<p_T<1.9 (GeV/c)
hRcNHitsPossE1_PtBin17
Entries 16880
Mean 44.07
RMS 3.539
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

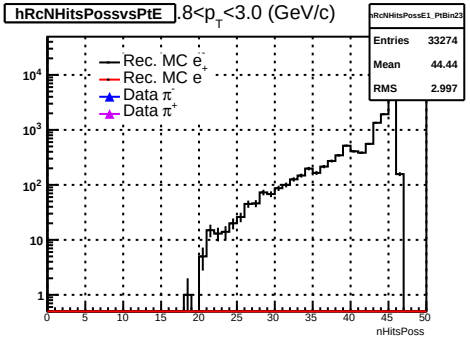

hRcNHitsPossvsPtE .9<p_T<2.0 (GeV/c)
hRcNHitsPossE1_PtBin18
Entries 19595
Mean 44.13
RMS 3.424
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

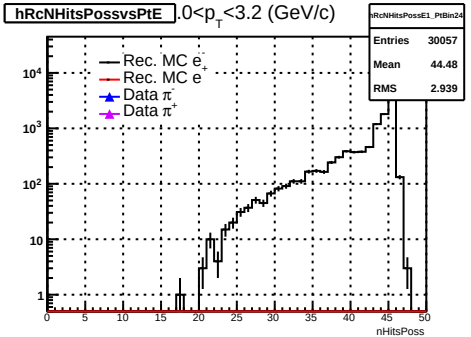

hRcNHitsPossvsPtE .0<p_T<2.2 (GeV/c)
hRcNHitsPossE1_PtBin19
Entries 30901
Mean 44.16
RMS 3.387
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

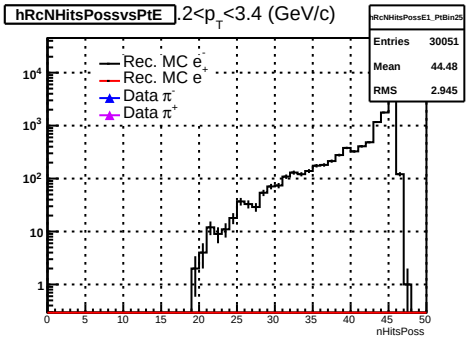

hRcNHitsPossvsPtE .2<p_T<2.4 (GeV/c)
hRcNHitsPossE1_PtBin20
Entries 30814
Mean 44.24
RMS 3.271
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

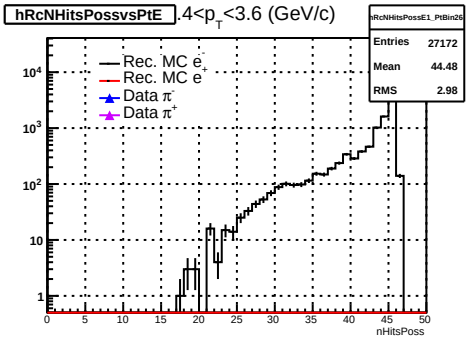

hRcNHitsPossvsPtE .4<p_T<2.6 (GeV/c)
hRcNHitsPossE1_PtBin21
Entries 27813
Mean 44.31
RMS 3.178
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

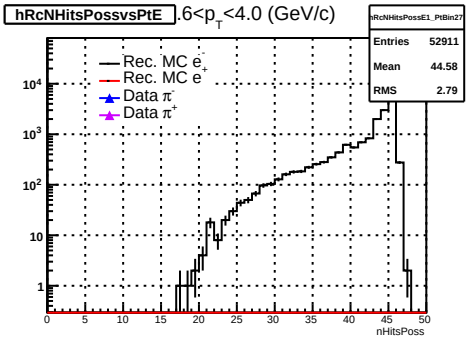

hRcNHitsPossvsPtE .6<p_T<2.8 (GeV/c)
hRcNHitsPossE1_PtBin22
Entries 30572
Mean 44.38
RMS 3.039
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

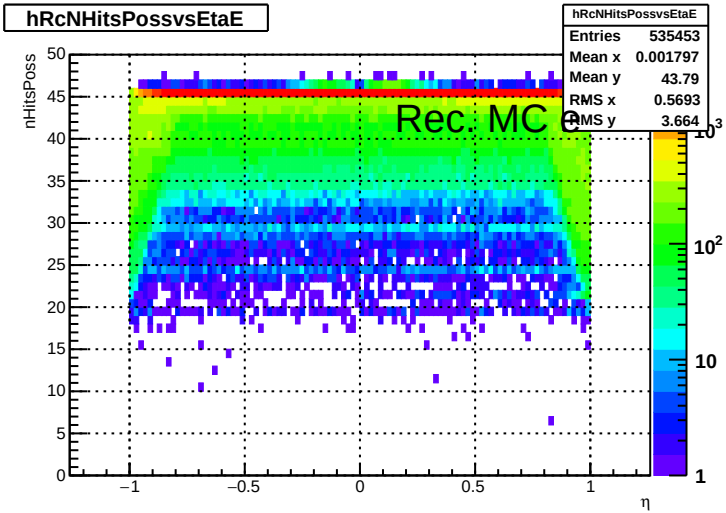

hRcNHitsPossvsPtE .8<p_T<3.0 (GeV/c)
hRcNHitsPossE1_PtBin23
Entries 33274
Mean 44.44
RMS 2.997
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

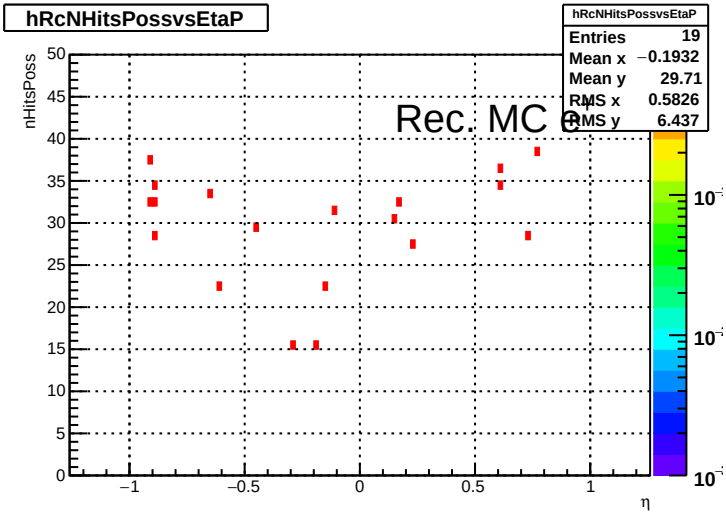

hRcNHitsPossvsPtE .0<p_T<3.2 (GeV/c)
hRcNHitsPossE1_PtBin24
Entries 30057
Mean 44.48
RMS 2.939
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

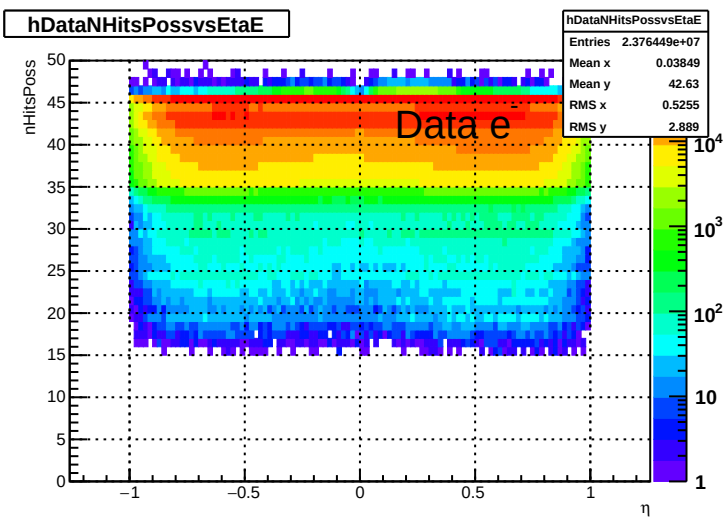

hRcNHitsPossvsPtE .2<p_T<3.4 (GeV/c)
hRcNHitsPossE1_PtBin25
Entries 30051
Mean 44.48
RMS 2.945
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

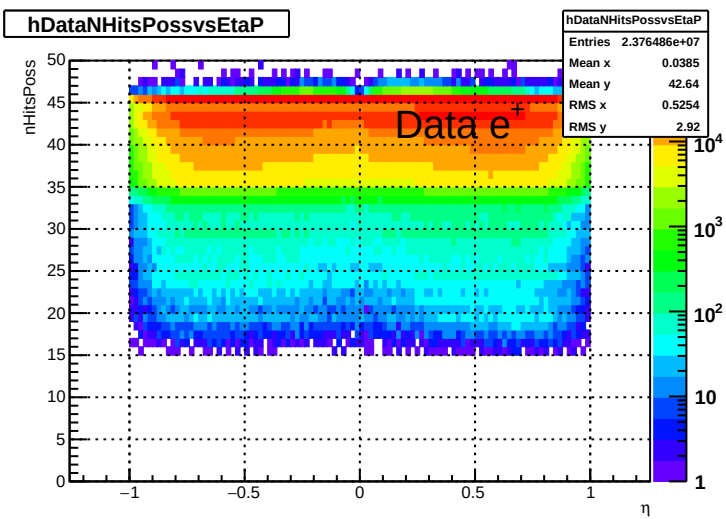

hRcNHitsPossvsPtE .4<p_T<3.6 (GeV/c)
hRcNHitsPossE1_PtBin26
Entries 27172
Mean 44.48
RMS 2.98
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .6<p_T<4.0 (GeV/c)
hRcNHitsPossE1_PtBin27
Entries 52911
Mean 44.58
RMS 2.79
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsEtaE
hRcNHitsPossvsEtaE
Entries 535453
Mean x 0.001797
Mean y 43.79
RMS x 0.5693
RMS y 3.664
Rec. MC e
nHitsPoss
η


hRcNHitsPossvsEtaP
hRcNHitsPossvsEtaP
Entries 19
Mean x −0.1932
Mean y 29.71
RMS x 0.5826
RMS y 6.437
Rec. MC e
nHitsPoss
η


hDataNHitsPossvsEtaE
hDataNHitsPossvsEtaE
Entries 2.376449e+07
Mean x 0.03849
Mean y 42.63
RMS x 0.5255
RMS y 2.889
Data e-
nHitsPoss
η


hDataNHitsPossvsEtaP
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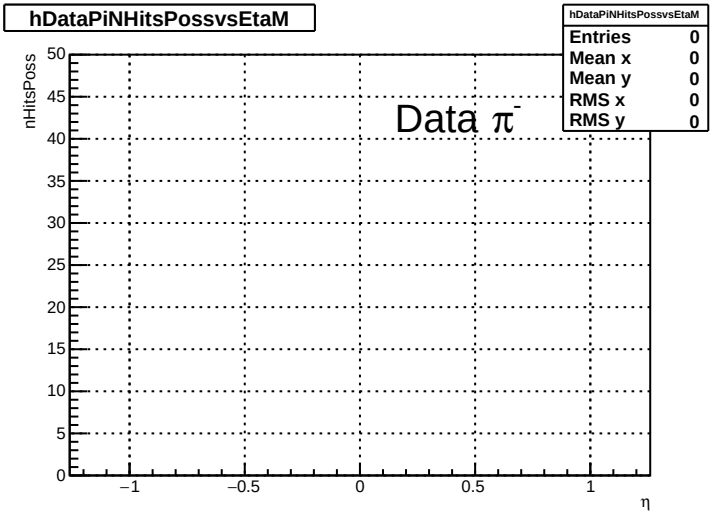
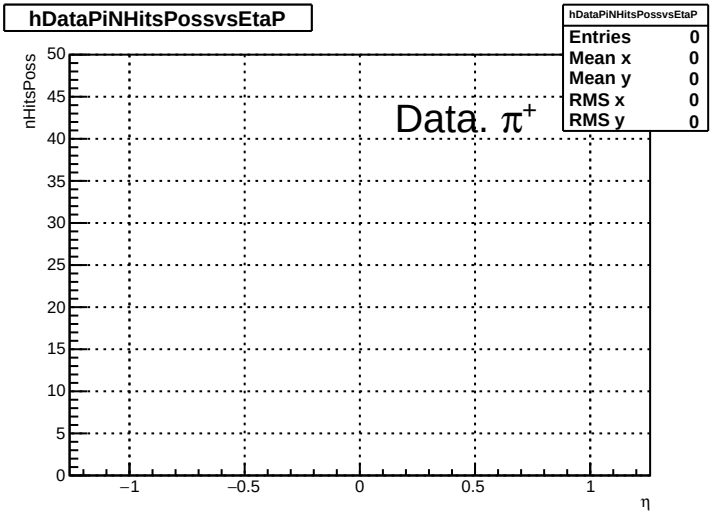
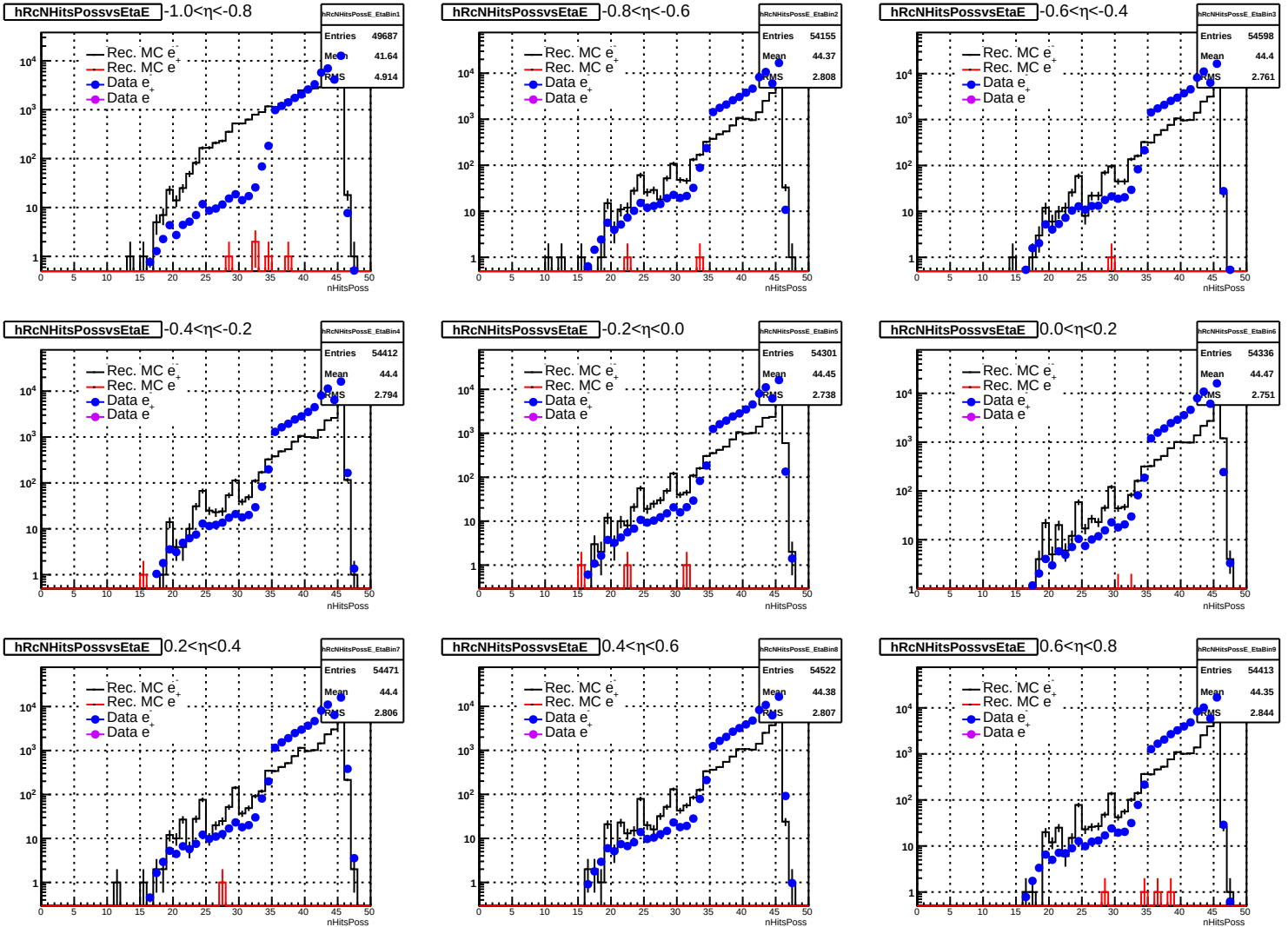
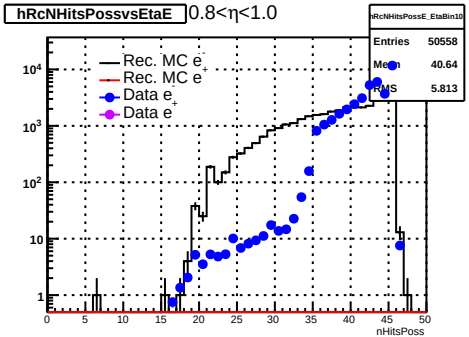
Entries 2.376486e+07
Mean x 0.0385
Mean y 42.64
RMS x 0.5254
RMS y 2.92
Data e+
nHitsPoss
η


hDataPiNHitsPossvsEtaM
hDataPiNHitsPossvsEtaM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsPoss
η


hDataPiNHitsPossvsEtaP
hDataPiNHitsPossvsEtaP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsPoss
η


hRcNHitsPossvsEtaE -1.0<η<-0.8
hRcNHitsPossE_EtaBin1
Entries 49687
Mean 41.64
RMS 4.914
hRcNHitsPossvsEtaE -0.8<η<-0.6
hRcNHitsPossE_EtaBin2
Entries 54155
Mean 44.37
RMS 2.808
hRcNHitsPossvsEtaE -0.6<η<-0.4
hRcNHitsPossE_EtaBin3
Entries 54598
Mean 44.4
RMS 2.761
hRcNHitsPossvsEtaE -0.4<η<-0.2
hRcNHitsPossE_EtaBin4
Entries 54412
Mean 44.4
RMS 2.794
hRcNHitsPossvsEtaE -0.2<η<0.0
hRcNHitsPossE_EtaBin5
Entries 54301
Mean 44.45
RMS 2.738
hRcNHitsPossvsEtaE 0.0<η<0.2
hRcNHitsPossE_EtaBin6
Entries 54336
Mean 44.47
RMS 2.751
hRcNHitsPossvsEtaE 0.2<η<0.4
hRcNHitsPossE_EtaBin7
Entries 54471
Mean 44.4
RMS 2.806
hRcNHitsPossvsEtaE 0.4<η<0.6
hRcNHitsPossE_EtaBin8
Entries 54522
Mean 44.38
RMS 2.807
hRcNHitsPossvsEtaE 0.6<η<0.8
hRcNHitsPossE_EtaBin9
Entries 54413
Mean 44.35
RMS 2.844
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss



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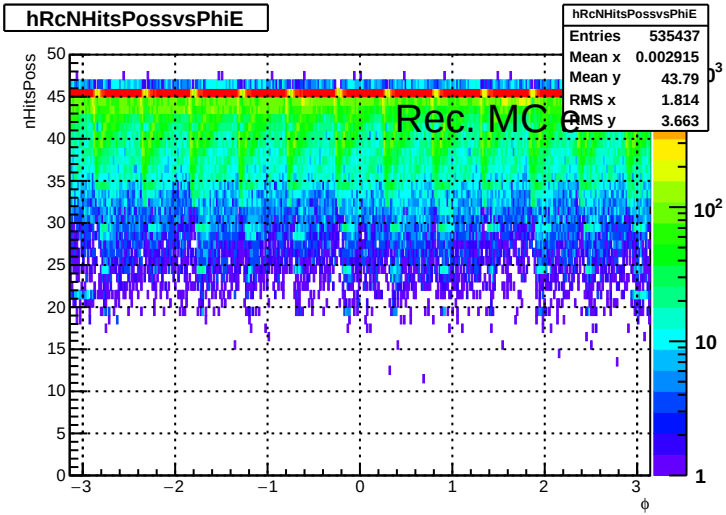
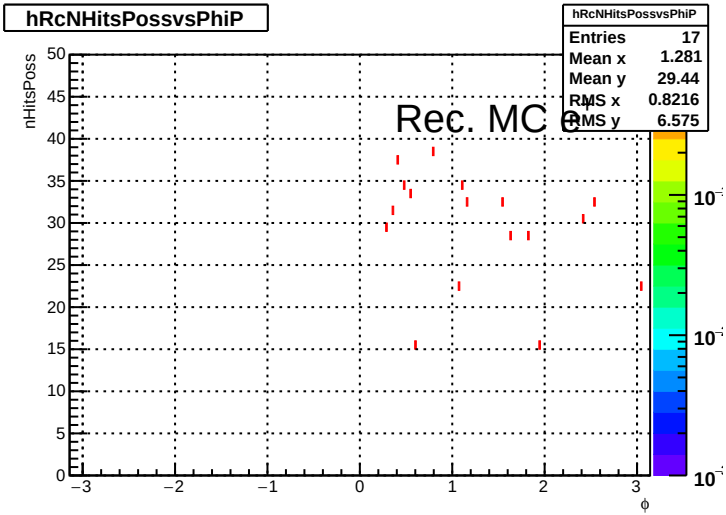
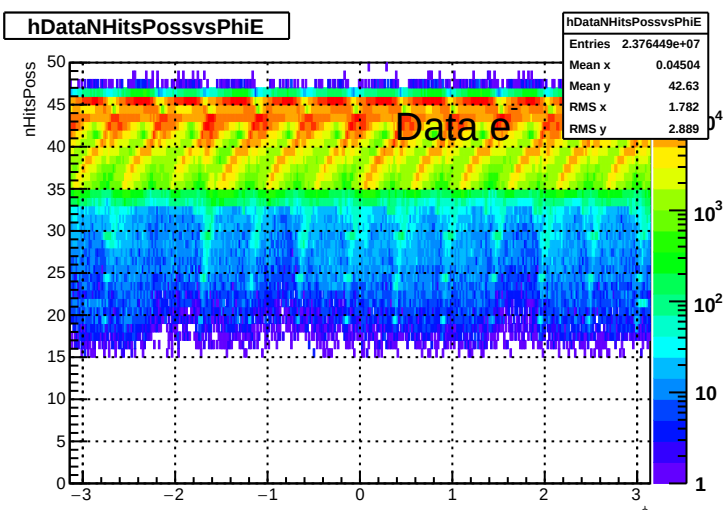
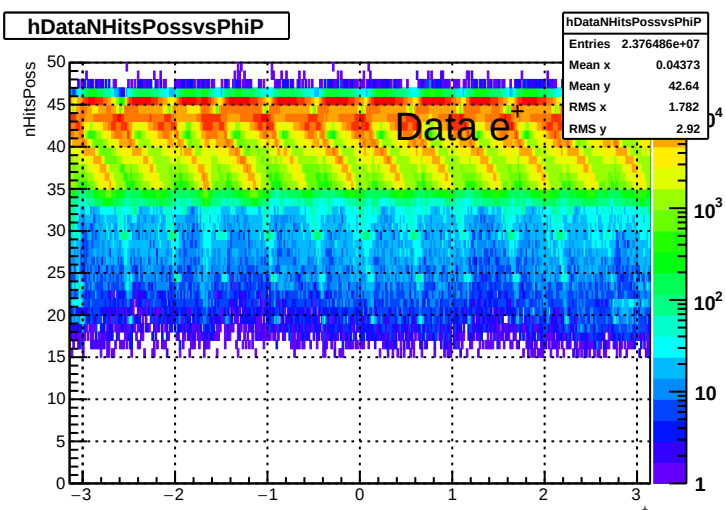

hRcNHitsPossvsPhiE
hRcNHitsPossvsPhiE
Entries 535437
Mean x 0.002915
Mean y 43.79
RMS x 1.814
RMS y 3.663
Rec. MC e
nHitsPoss
ϕ


hRcNHitsPossvsPhiP
hRcNHitsPossvsPhiP
Entries 17
Mean x 1.281
Mean y 29.44
RMS x 0.8216
RMS y 6.575
Rec. MC e
nHitsPoss
ϕ


hDataNHitsPossvsPhiE
hDataNHitsPossvsPhiE
Entries 2.376449e+07
Mean x 0.04504
Mean y 42.63
RMS x 1.782
RMS y 2.889
Data e
nHitsPoss
ϕ


hDataNHitsPossvsPhiP
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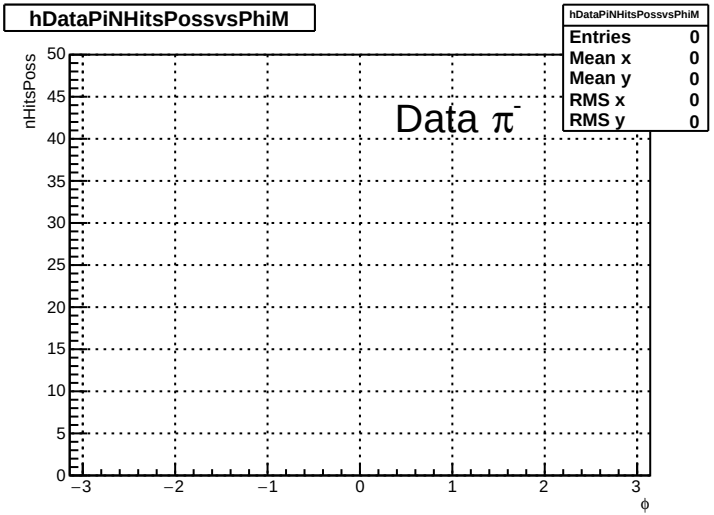
Entries 2.376486e+07
Mean x 0.04373
Mean y 42.64
RMS x 1.782
RMS y 2.92
Data e
nHitsPoss
ϕ


hDataPiNHitsPossvsPhiM
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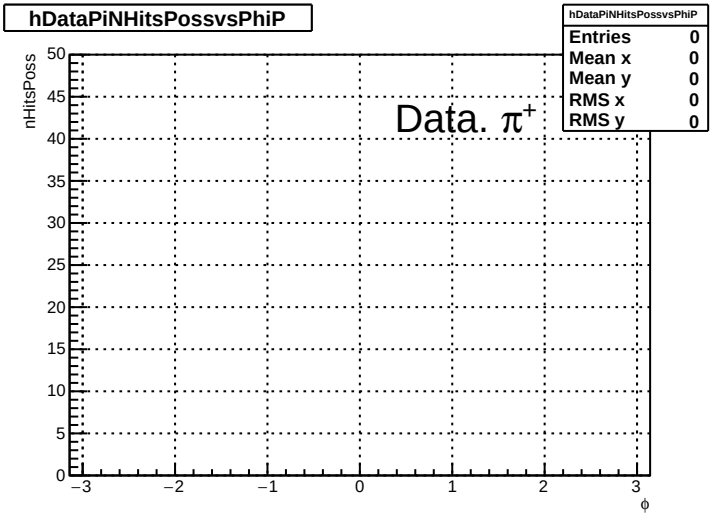
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsPoss
ϕ


hDataPiNHitsPossvsPhiP
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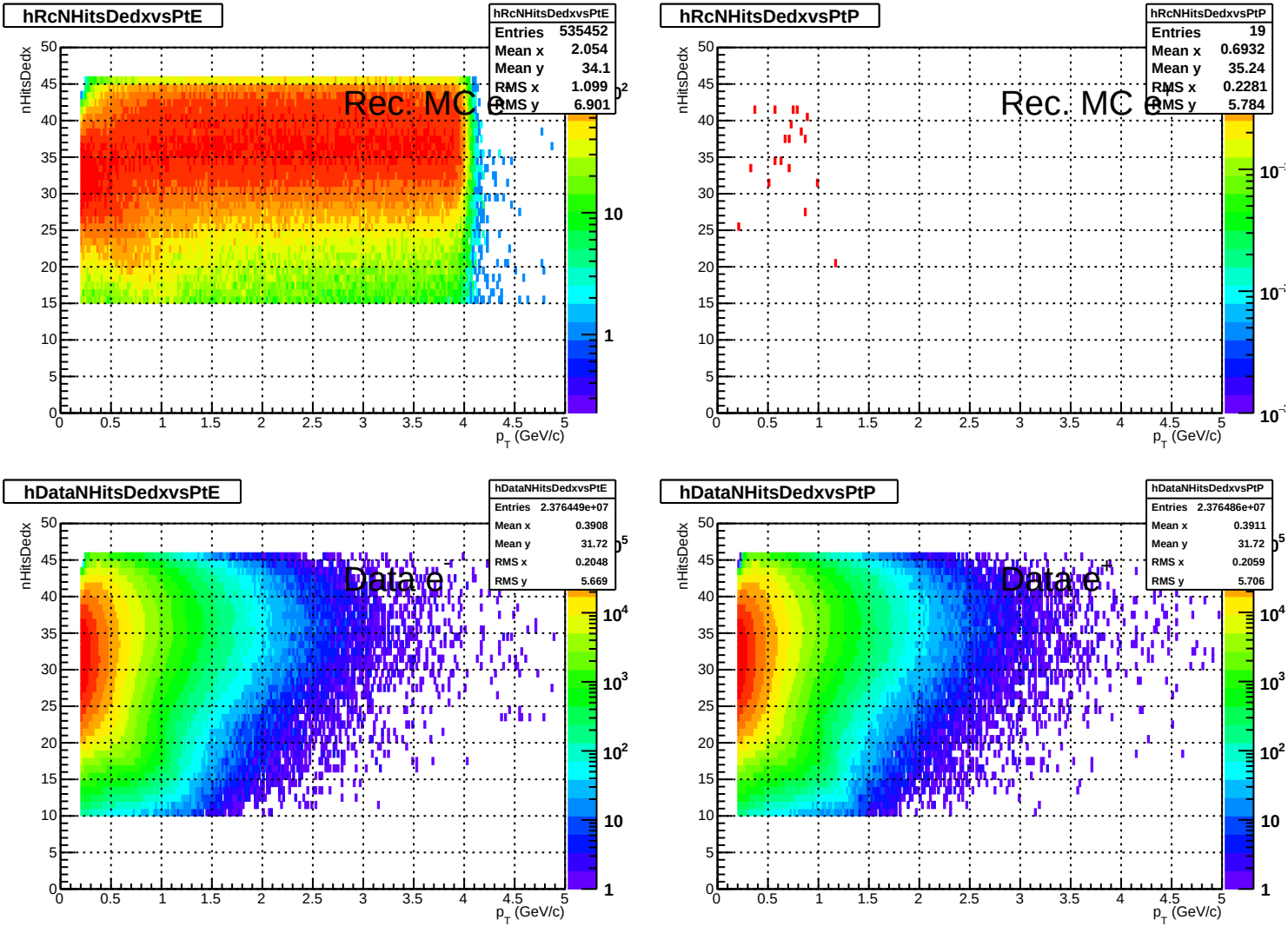
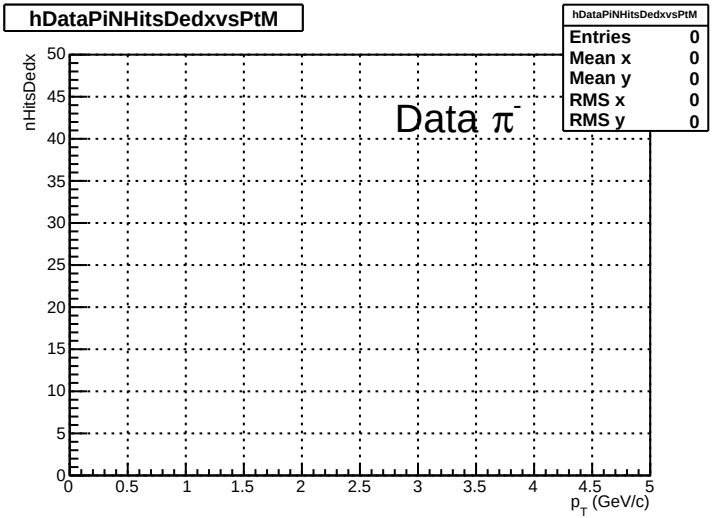
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsPoss
ϕ


hRcNHitsDedxvsPtE
hRcNHitsDedxvsPtE
Entries 535452
Mean x 2.054
Mean y 34.1
RMS x 1.099
RMS y 6.901
Rec. MC e
nHitsDedx
p_T (GeV/c)
hRcNHitsDedxvsPtP
hRcNHitsDedxvsPtP
Entries 19
Mean x 0.6932
Mean y 35.24
RMS x 0.2281
RMS y 5.784
Rec. MC e
nHitsDedx
p_T (GeV/c)
hDataNHitsDedxvsPtE
hDataNHitsDedxvsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 31.72
RMS x 0.2048
RMS y 5.669
Data e
nHitsDedx
p_T (GeV/c)
hDataNHitsDedxvsPtP
hDataNHitsDedxvsPtP
Entries 2.376486e+07
Mean x 0.3911
Mean y 31.72
RMS x 0.2059
RMS y 5.706
Data e
nHitsDedx
p_T (GeV/c)


hDataPiNHitsDedxvsPtM
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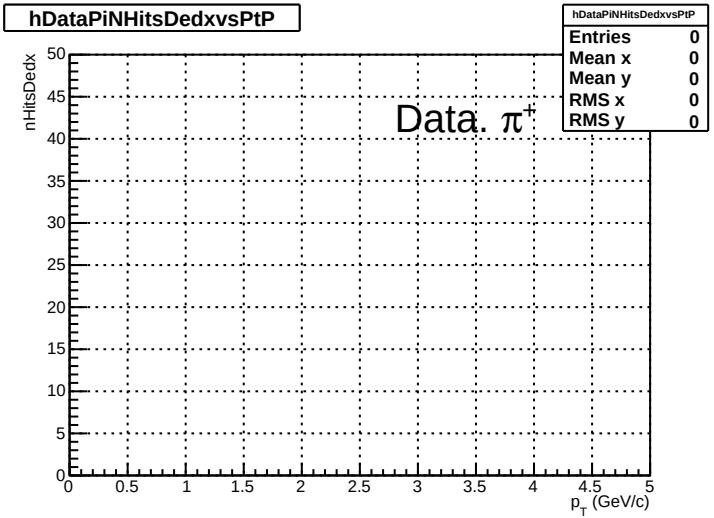
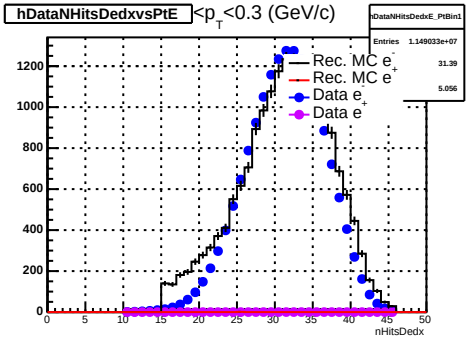
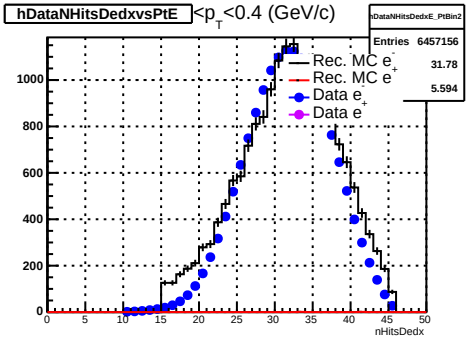
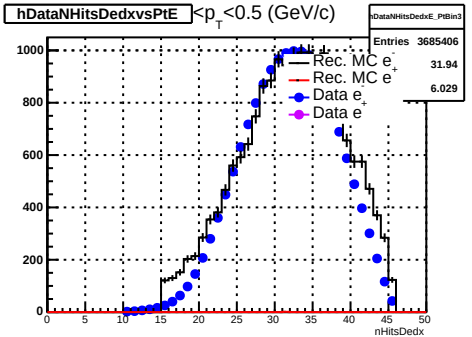
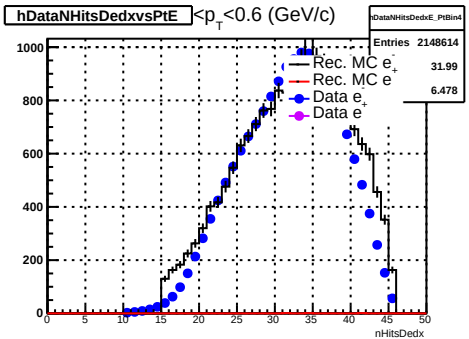
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsDedx
pT (GeV/c)

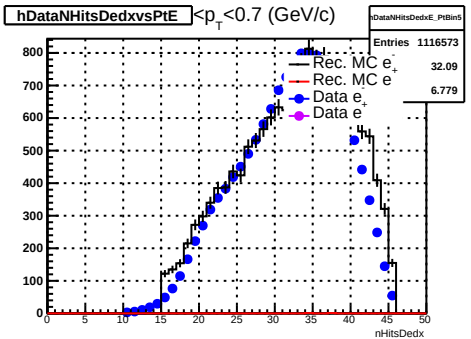

hDataPiNHitsDedxvsPtP
hDataPiNHitsDedxvsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsDedx
pT (GeV/c)

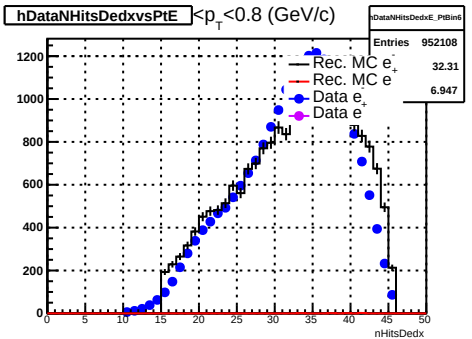

hDataNHitsDedxvsPtE
<p_T<0.3 (GeV/c)
hDataNHitsDedxE_PtBin1
Entries 1.149033e+07
31.39
5.056
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

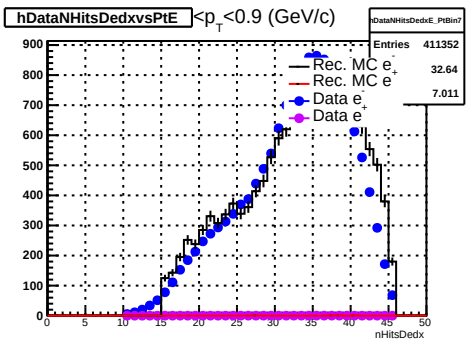

hDataNHitsDedxvsPtE
<p_T<0.4 (GeV/c)
hDataNHitsDedxE_PtBin2
Entries 6457156
31.78
5.594
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

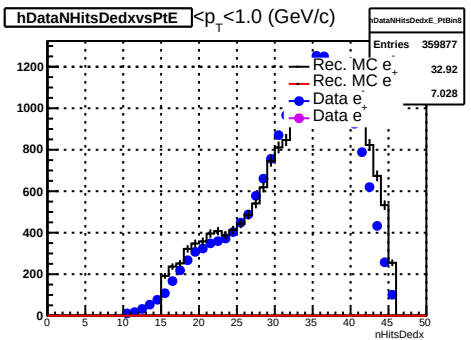

hDataNHitsDedxvsPtE
<p_T<0.5 (GeV/c)
hDataNHitsDedxE_PtBin3
Entries 3685406
31.94
6.029
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

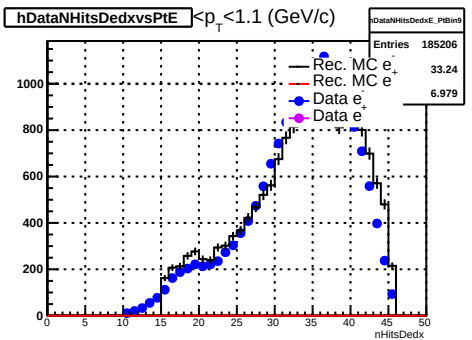

hDataNHitsDedxvsPtE
<p_T<0.6 (GeV/c)
hDataNHitsDedxE_PtBin4
Entries 2148614
31.99
6.478
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

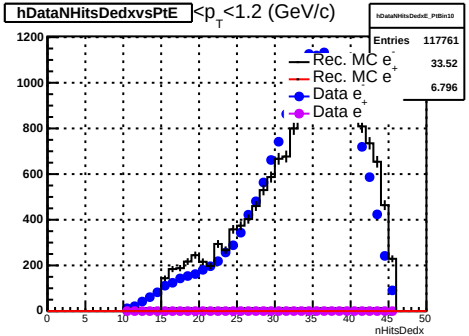

hDataNHitsDedxvsPtE
<p_T<0.7 (GeV/c)
hDataNHitsDedxE_PtBin5
Entries 1116573
32.09
6.779
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

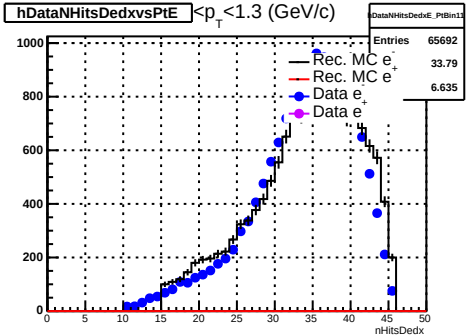

hDataNHitsDedxvsPtE
<p_T<0.8 (GeV/c)
hDataNHitsDedxE_PtBin6
Entries 952108
32.31
6.947
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

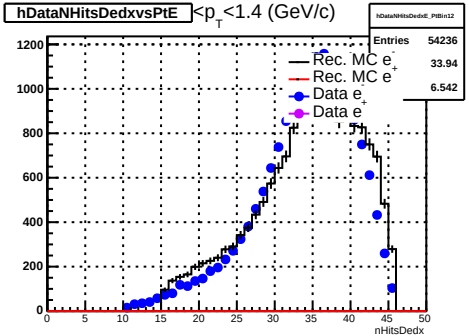

hDataNHitsDedxvsPtE
<p_T<0.9 (GeV/c)
hDataNHitsDedxE_PtBin7
Entries 411352
32.64
7.011
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

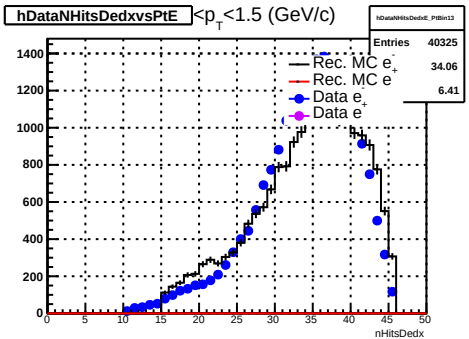

hDataNHitsDedxvsPtE
<p_T<1.0 (GeV/c)
hDataNHitsDedxE_PtBin8
Entries 359877
32.92
7.028
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

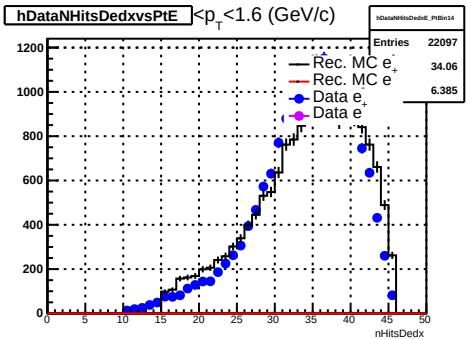

hDataNHitsDedxvsPtE
<p_T<1.1 (GeV/c)
hDataNHitsDedxE_PtBin9
Entries 185206
33.24
6.979
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

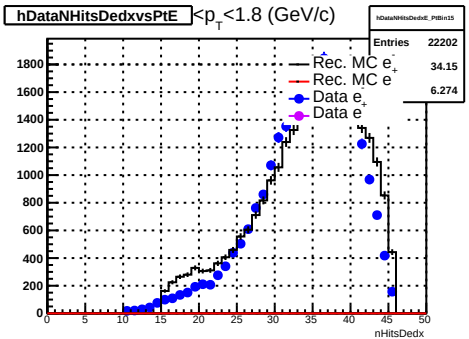

hDataNHitsDedxvsPtE
<p_T<1.2 (GeV/c)
hDataNHitsDedxE_PtBin10
Entries 117761
33.52
6.796
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

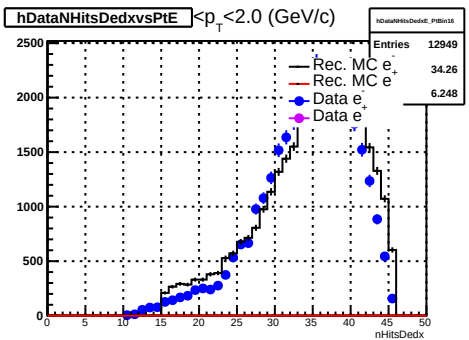

hDataNHitsDedxvsPtE
<p_T<1.3 (GeV/c)
hDataNHitsDedxE_PtBin11
Entries 65692
33.79
6.635
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

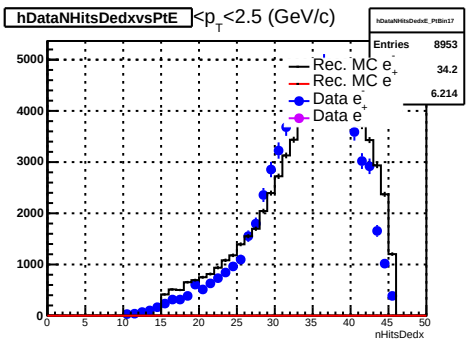

hDataNHitsDedxvsPtE
<p_T<1.4 (GeV/c)
hDataNHitsDedxE_PtBin12
Entries 54236
33.94
6.542
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

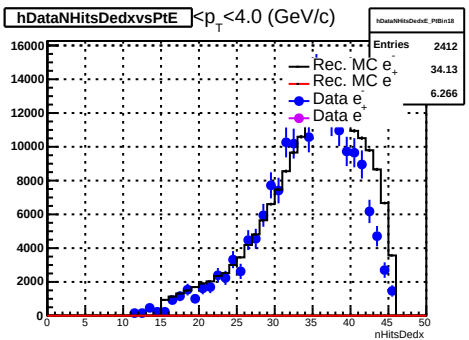

hDataNHitsDedxvsPtE
<p_T<1.5 (GeV/c)
hDataNHitsDedxE_PtBin13
Entries 40325
34.06
6.41
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx


hDataNHitsDedxvsPtE
<p_T<1.6 (GeV/c)
hDataNHitsDedxE_PtBin14
Entries 22097
34.06
6.385
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx


hDataNHitsDedxvsPtE
<p_T<1.8 (GeV/c)
hDataNHitsDedxE_PtBin15
Entries 22202
34.15
6.274
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx


hDataNHitsDedxvsPtE
<p_T<2.0 (GeV/c)
hDataNHitsDedxE_PtBin16
Entries 12949
34.26
6.248
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx


hDataNHitsDedxvsPtE
<p_T<2.5 (GeV/c)
hDataNHitsDedxE_PtBin17
Entries 8953
34.2
6.214
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx


hDataNHitsDedxvsPtE
<p_T<4.0 (GeV/c)
hDataNHitsDedxE_PtBin18
Entries 2412
34.13
6.266
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

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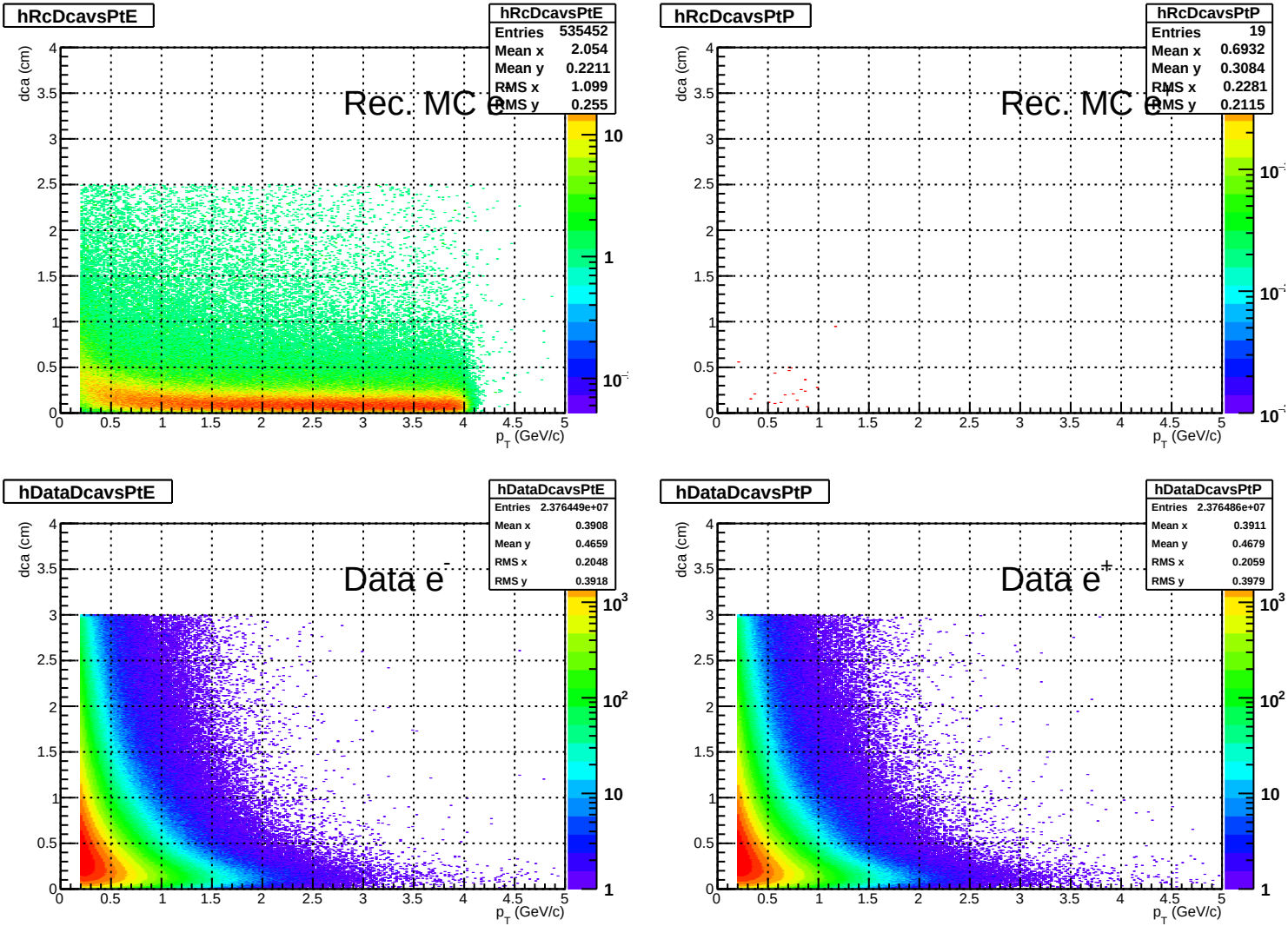
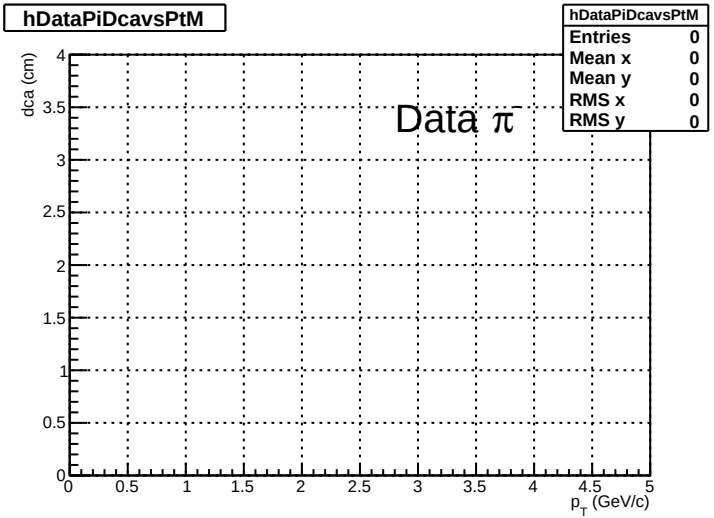
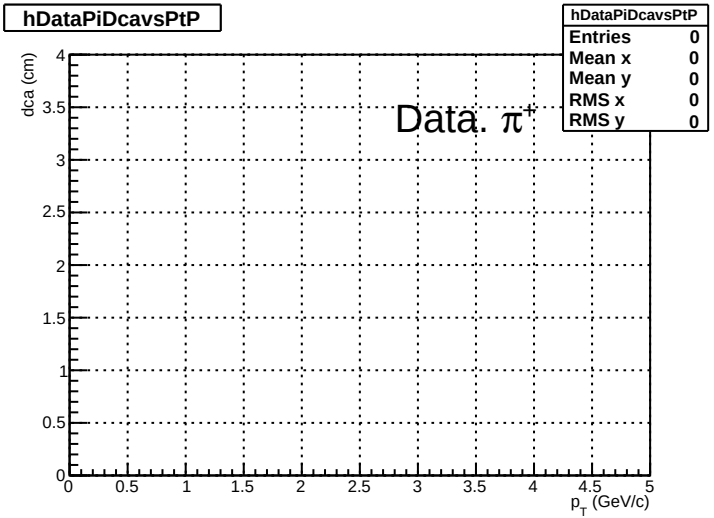
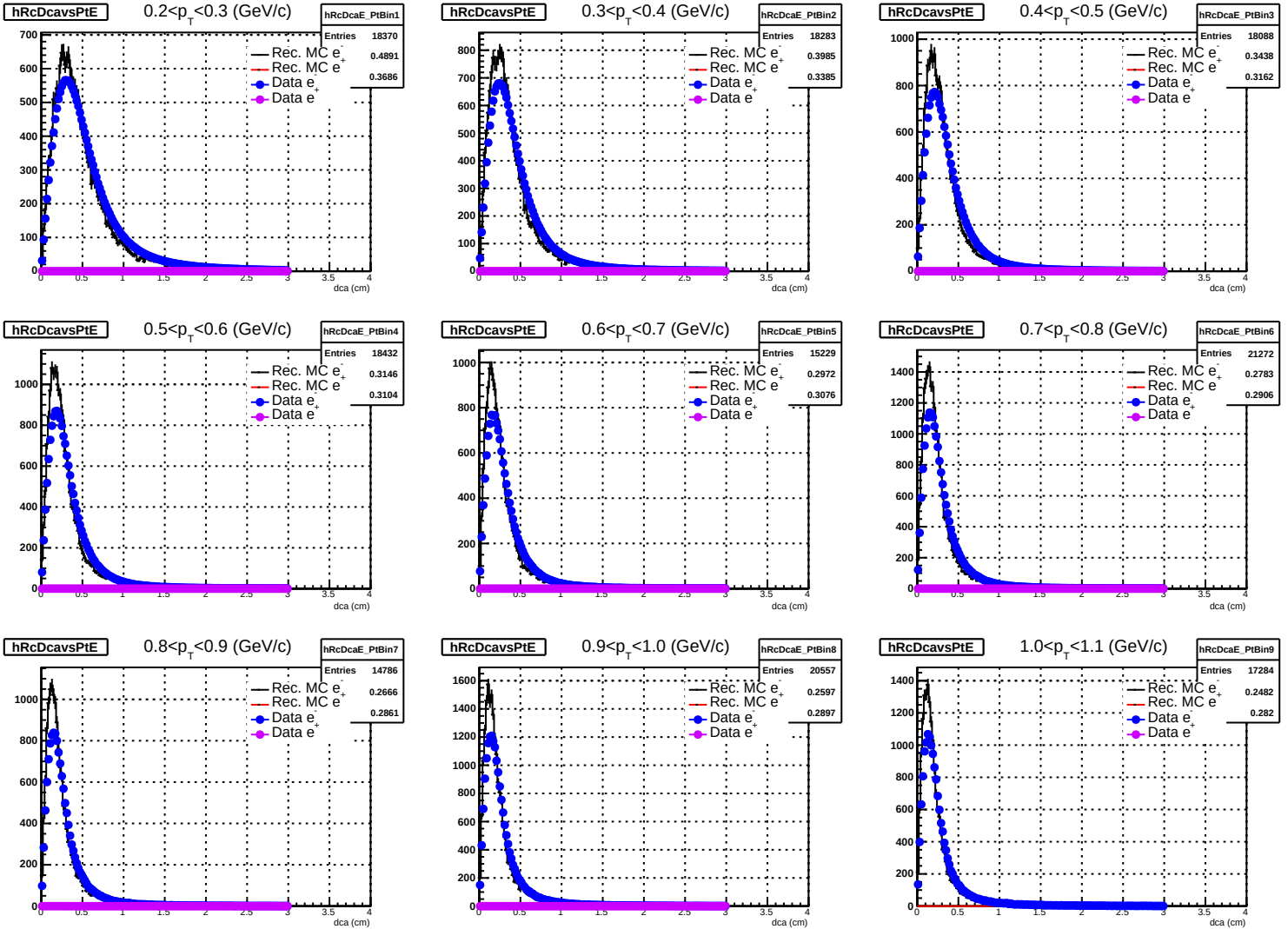
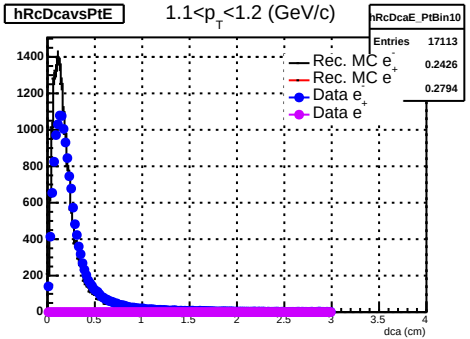
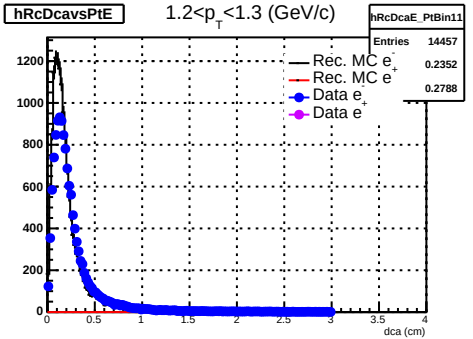

hRcDcavsPtE
hRcDcavsPtE
Entries 535452
Mean x 2.054
Mean y 0.2211
RMS x 1.099
RMS y 0.255
Rec. MC e-
hRcDcavsPtP
hRcDcavsPtP
Entries 19
Mean x 0.6932
Mean y 0.3084
RMS x 0.2281
RMS y 0.2115
Rec. MC e+
hDataDcavsPtE
hDataDcavsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 0.4659
RMS x 0.2048
RMS y 0.3918
Data e-
hDataDcavsPtP
hDataDcavsPtP
Entries 2.376486e+07
Mean x 0.3911
Mean y 0.4679
RMS x 0.2059
RMS y 0.3979
Data e+
dca (cm)
p_T (GeV/c)

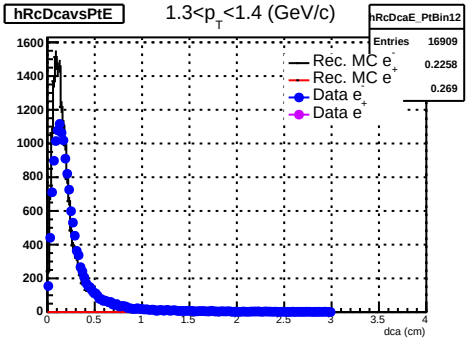

hDataPiDcavsPtM
hDataPiDcavsPtM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π⁻
dca (cm)
p_T (GeV/c)

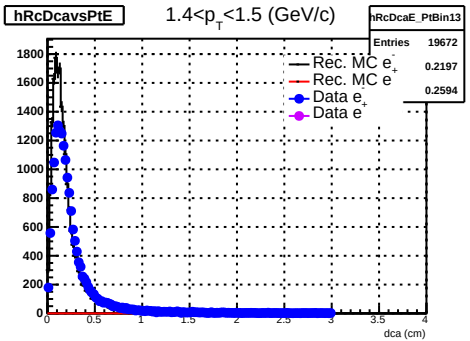

hDataPiDcavsPtP
hDataPiDcavsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π⁺
dca (cm)
p_T (GeV/c)

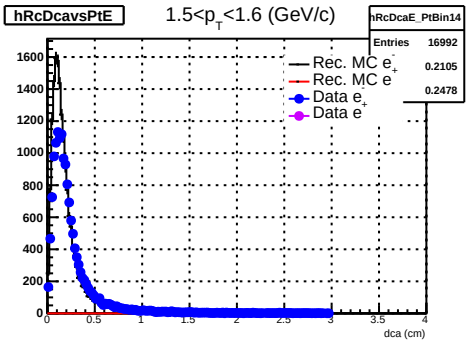

hRcDcavsPtE
0.2<p_T<0.3 (GeV/c)
hRcDcaE_PtBin1
Entries 18370
0.4891
0.3686
0.3<p_T<0.4 (GeV/c)
hRcDcaE_PtBin2
Entries 18283
0.3985
0.3385
0.4<p_T<0.5 (GeV/c)
hRcDcaE_PtBin3
Entries 18088
0.3438
0.3162
0.5<p_T<0.6 (GeV/c)
hRcDcaE_PtBin4
Entries 18432
0.3146
0.3104
0.6<p_T<0.7 (GeV/c)
hRcDcaE_PtBin5
Entries 15229
0.2972
0.3076
0.7<p_T<0.8 (GeV/c)
hRcDcaE_PtBin6
Entries 21272
0.2783
0.2906
0.8<p_T<0.9 (GeV/c)
hRcDcaE_PtBin7
Entries 14786
0.2666
0.2861
0.9<p_T<1.0 (GeV/c)
hRcDcaE_PtBin8
Entries 20557
0.2597
0.2897
1.0<p_T<1.1 (GeV/c)
hRcDcaE_PtBin9
Entries 17284
0.2482
0.282
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

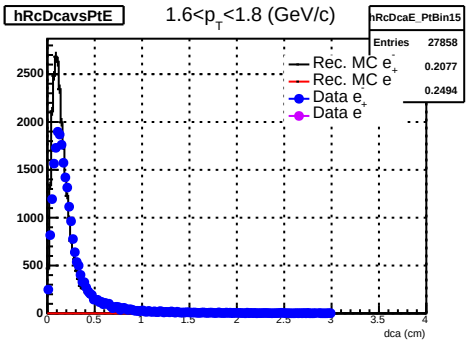

hRcDcavsPtE
1.1<p_T<1.2 (GeV/c)
hRcDcaE_PtBin10
Entries 17113
0.2426
0.2794
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

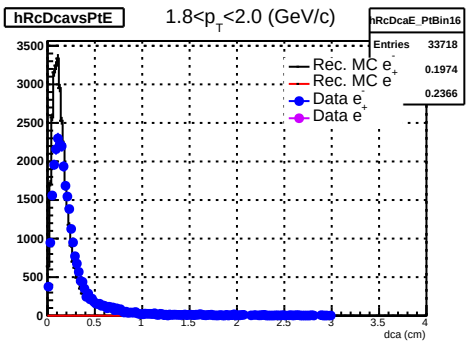

hRcDcavsPtE
1.2<p_T<1.3 (GeV/c)
hRcDcaE_PtBin11
Entries 14457
0.2352
0.2788
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

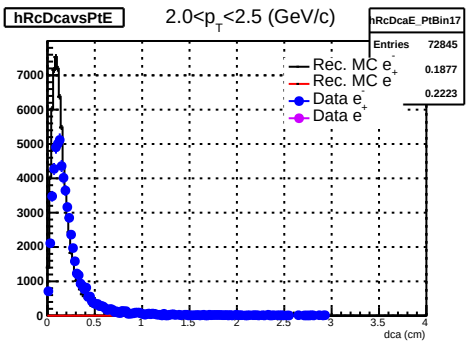

hRcDcavsPtE
1.3<p_T<1.4 (GeV/c)
hRcDcaE_PtBin12
Entries 16909
0.2258
0.269
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

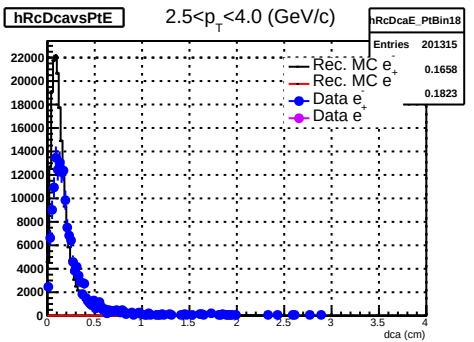

hRcDcavsPtE
1.4<p_T<1.5 (GeV/c)
hRcDcaE_PtBin13
Entries 19672
0.2197
0.2594
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

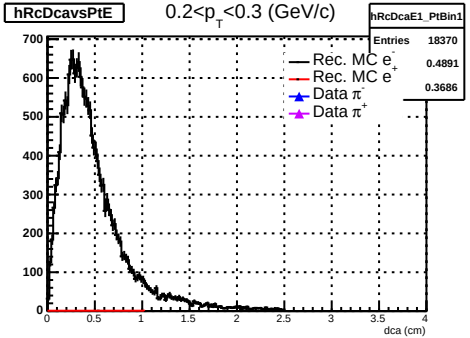

hRcDcavsPtE
1.5<p_T<1.6 (GeV/c)
hRcDcaE_PtBin14
Entries 16992
0.2105
0.2478
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

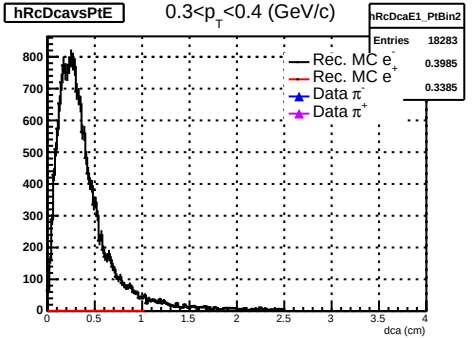

hRcDcavsPtE
1.6<p_T<1.8 (GeV/c)
hRcDcaE_PtBin15
Entries 27858
0.2077
0.2494
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

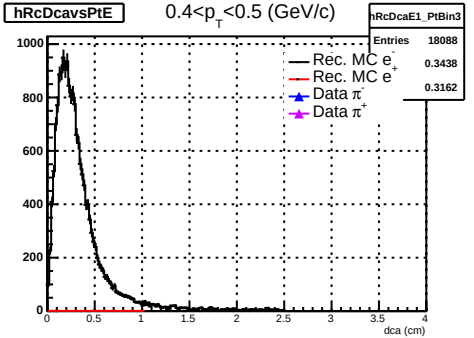

hRcDcavsPtE
1.8<p_T<2.0 (GeV/c)
hRcDcaE_PtBin16
Entries 33718
0.1974
0.2366
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

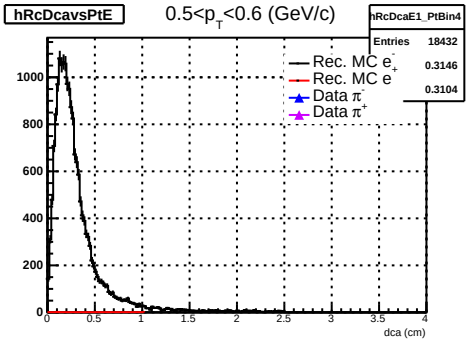

hRcDcavsPtE
2.0<p_T<2.5 (GeV/c)
hRcDcaE_PtBin17
Entries 72845
0.1877
0.2223
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

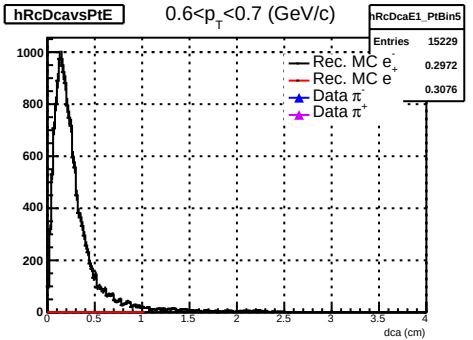

hRcDcavsPtE
2.5<p_T<4.0 (GeV/c)
hRcDcaE_PtBin18
Entries 201315
0.1658
0.1823
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

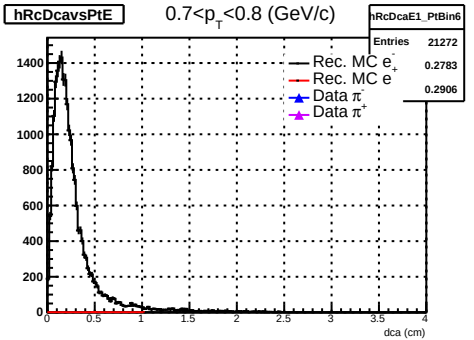

hRcDcavsPtE
0.2<p_T<0.3 (GeV/c)
hRcDcaE1_PtBin1
Entries 18370
Rec. MC e-+ 0.4891
Rec. MC e- 0.3686
Data π-
Data π+
dca (cm)

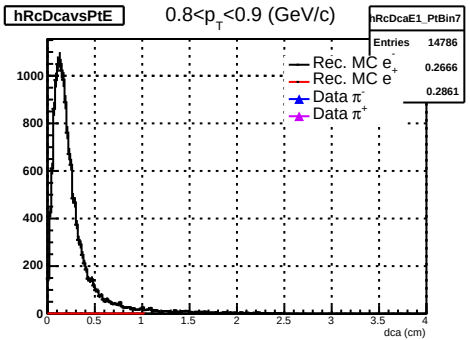

hRcDcavsPtE
0.3<p_T<0.4 (GeV/c)
hRcDcaE1_PtBin2
Entries 18283
Rec. MC e-+ 0.3985
Rec. MC e- 0.3385
Data π-
Data π+
dca (cm)

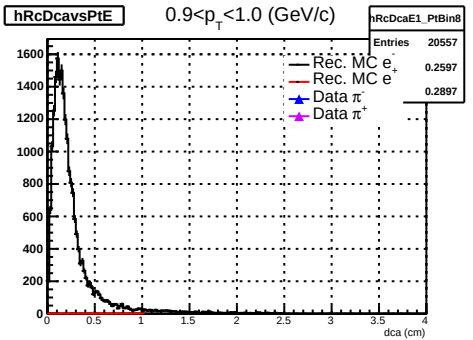

hRcDcavsPtE
0.4<p_T<0.5 (GeV/c)
hRcDcaE1_PtBin3
Entries 18088
Rec. MC e-+ 0.3438
Rec. MC e- 0.3162
Data π-
Data π+
dca (cm)

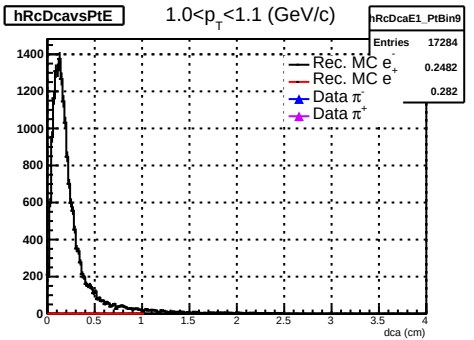

hRcDcavsPtE
0.5<p_T<0.6 (GeV/c)
hRcDcaE1_PtBin4
Entries 18432
Rec. MC e-+ 0.3146
Rec. MC e- 0.3104
Data π-
Data π+
dca (cm)

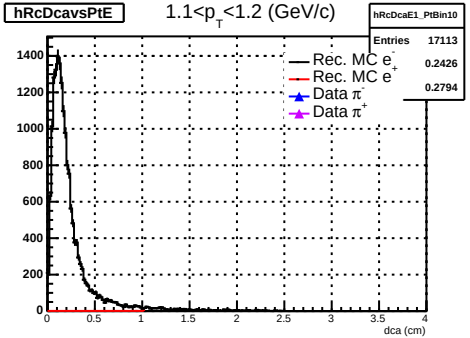

hRcDcavsPtE
0.6<p_T<0.7 (GeV/c)
hRcDcaE1_PtBin5
Entries 15229
Rec. MC e-+ 0.2972
Rec. MC e- 0.3076
Data π-
Data π+
dca (cm)

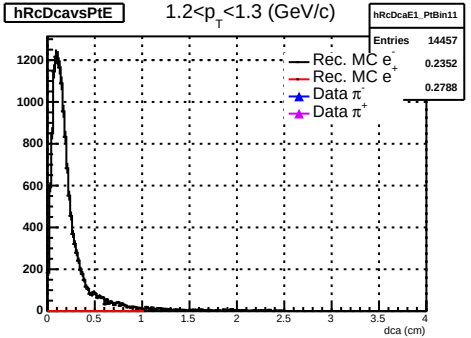

hRcDcavsPtE
0.7<p_T<0.8 (GeV/c)
hRcDcaE1_PtBin6
Entries 21272
Rec. MC e-+ 0.2783
Rec. MC e- 0.2906
Data π-
Data π+
dca (cm)

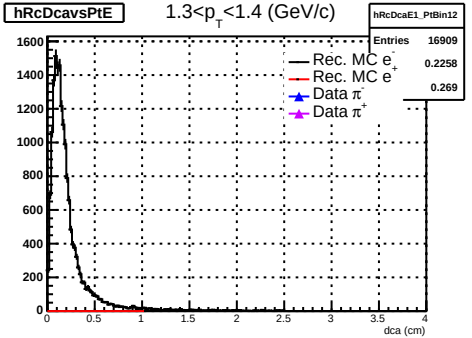

hRcDcavsPtE
0.8<p_T<0.9 (GeV/c)
hRcDcaE1_PtBin7
Entries 14786
Rec. MC e-+ 0.2666
Rec. MC e- 0.2861
Data π-
Data π+
dca (cm)

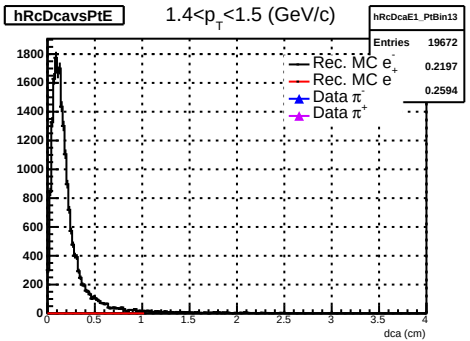

hRcDcavsPtE
0.9<p_T<1.0 (GeV/c)
hRcDcaE1_PtBin8
Entries 20557
Rec. MC e-+ 0.2597
Rec. MC e- 0.2897
Data π-
Data π+
dca (cm)

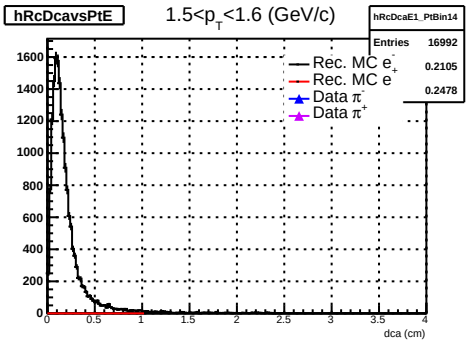

hRcDcavsPtE
1.0<p_T<1.1 (GeV/c)
hRcDcaE1_PtBin9
Entries 17284
Rec. MC e-+ 0.2482
Rec. MC e- 0.282
Data π-
Data π+
dca (cm)

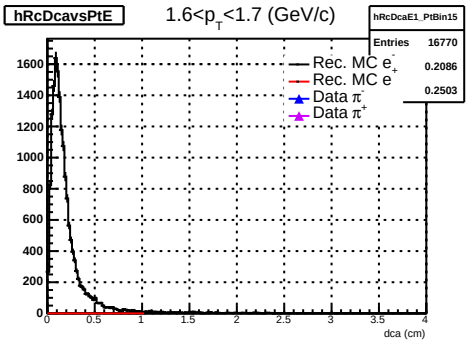

hRcDcavsPtE
1.1<p_T<1.2 (GeV/c)
hRcDcaE1_PtBin10
Entries 17113
Rec. MC e-+ 0.2426
Rec. MC e- 0.2794
Data π-
Data π+
dca (cm)

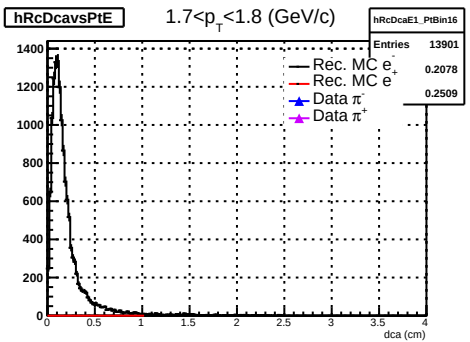

hRcDcavsPtE
1.2<p_T<1.3 (GeV/c)
hRcDcaE1_PtBin11
Entries 14457
Rec. MC e-+ 0.2352
Rec. MC e- 0.2788
Data π-
Data π+
dca (cm)

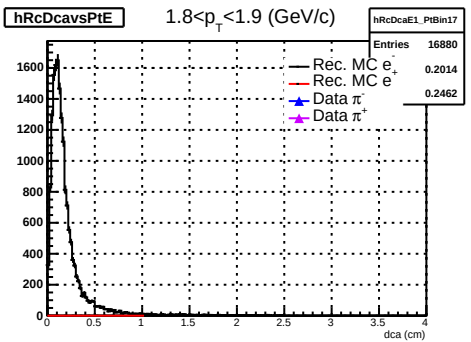

hRcDcavsPtE
1.3<p_T<1.4 (GeV/c)
hRcDcaE1_PtBin12
Entries 16909
Rec. MC e-+ 0.2258
Rec. MC e- 0.269
Data π-
Data π+
dca (cm)

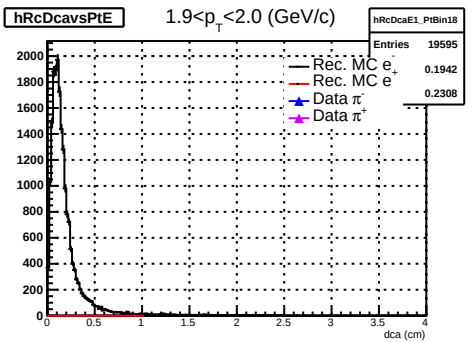

hRcDcavsPtE
1.4<p_T<1.5 (GeV/c)
hRcDcaE1_PtBin13
Entries 19672
Rec. MC e-+ 0.2197
Rec. MC e- 0.2594
Data π-
Data π+
dca (cm)

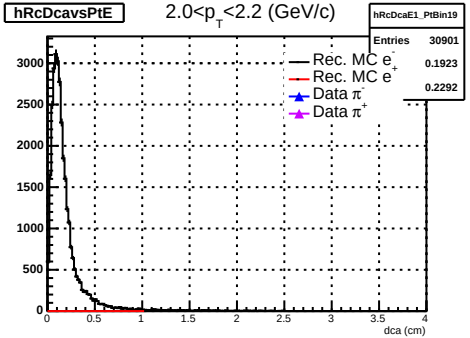

hRcDcavsPtE
1.5<p_T<1.6 (GeV/c)
hRcDcaE1_PtBin14
Entries 16992
Rec. MC e-+ 0.2105
Rec. MC e- 0.2478
Data π-
Data π+
dca (cm)

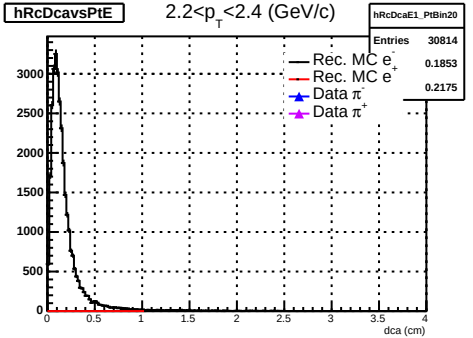

hRcDcavsPtE
1.6<p_T<1.7 (GeV/c)
hRcDcaE1_PtBin15
Entries 16770
Rec. MC e-+ 0.2086
Rec. MC e- 0.2503
Data π-
Data π+
dca (cm)

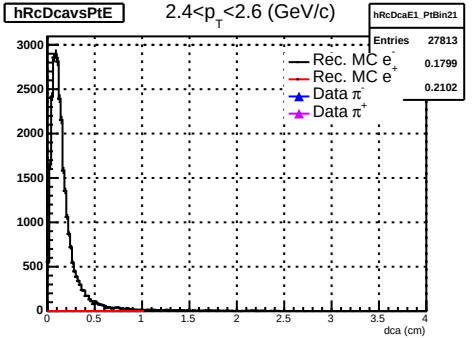

hRcDcavsPtE
1.7<p_T<1.8 (GeV/c)
hRcDcaE1_PtBin16
Entries 13901
Rec. MC e-+ 0.2078
Rec. MC e- 0.2509
Data π-
Data π+
dca (cm)

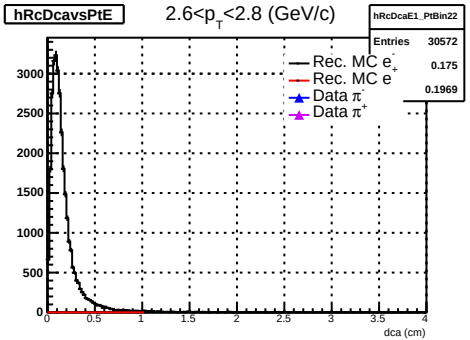

hRcDcavsPtE
1.8<p_T<1.9 (GeV/c)
hRcDcaE1_PtBin17
Entries 16880
Rec. MC e-+ 0.2014
Rec. MC e- 0.2462
Data π-
Data π+
dca (cm)

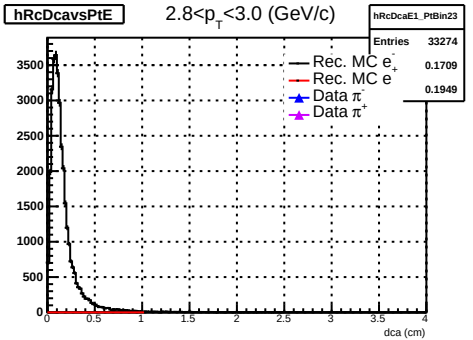

hRcDcavsPtE
1.9<p_T<2.0 (GeV/c)
hRcDcaE1_PtBin18
Entries 19595
Rec. MC e-+ 0.1942
Rec. MC e- 0.2308
Data π-
Data π+
dca (cm)

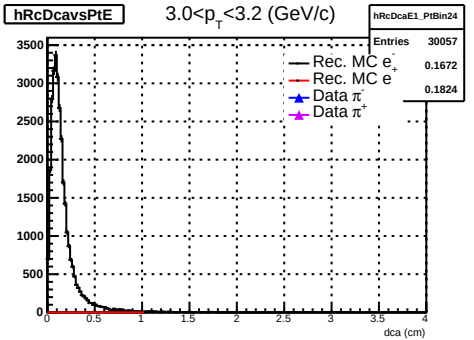

hRcDcavsPtE
2.0<p_T<2.2 (GeV/c)
hRcDcaE1_PtBin19
Entries 30901
Rec. MC e-+ 0.1923
Rec. MC e- 0.2292
Data π-
Data π+
dca (cm)

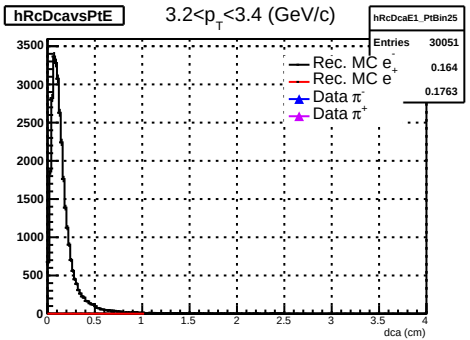

hRcDcavsPtE
2.2<p_T<2.4 (GeV/c)
hRcDcaE1_PtBin20
Entries 30814
Rec. MC e-+ 0.1853
Rec. MC e- 0.2175
Data π-
Data π+
dca (cm)

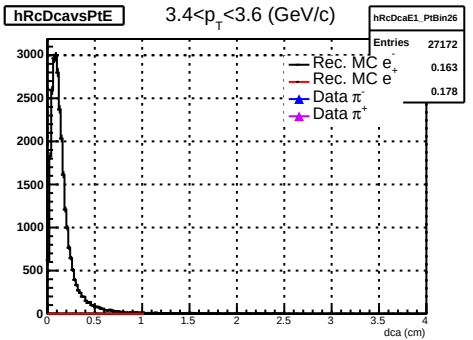

hRcDcavsPtE
2.4<p_T<2.6 (GeV/c)
hRcDcaE1_PtBin21
Entries 27813
Rec. MC e-+ 0.1799
Rec. MC e- 0.2102
Data π-
Data π+
dca (cm)

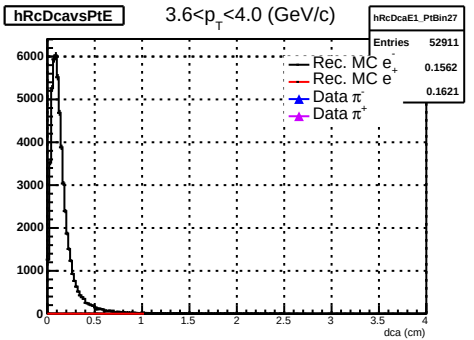

hRcDcavsPtE
2.6<p_T<2.8 (GeV/c)
hRcDcaE1_PtBin22
Entries 30572
Rec. MC e-+ 0.175
Rec. MC e- 0.1969
Data π-
Data π+
dca (cm)

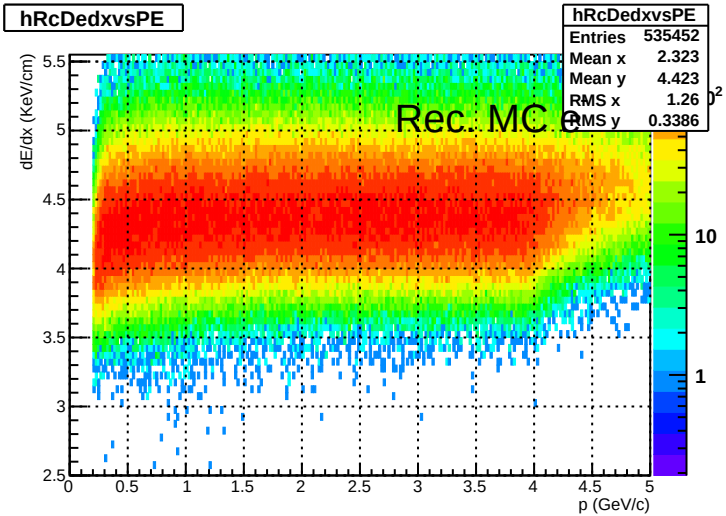

hRcDcavsPtE
2.8<p_T<3.0 (GeV/c)
hRcDcaE1_PtBin23
Entries 33274
Rec. MC e-+ 0.1709
Rec. MC e- 0.1949
Data π-
Data π+
dca (cm)

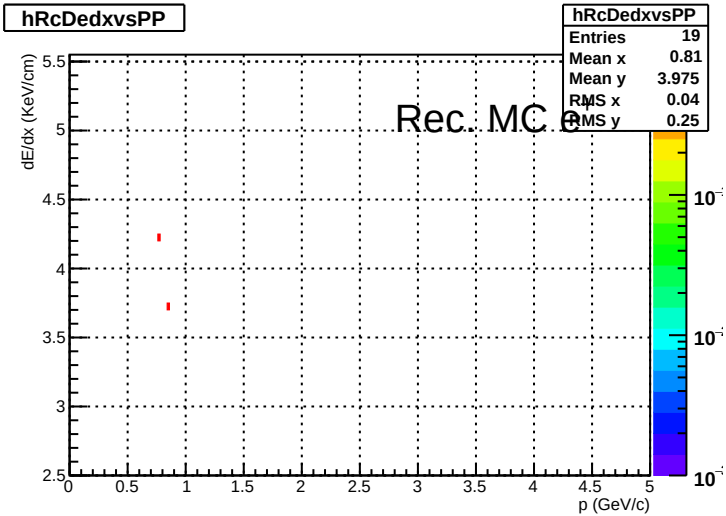

hRcDcavsPtE
3.0<p_T<3.2 (GeV/c)
hRcDcaE1_PtBin24
Entries 30057
Rec. MC e-+ 0.1672
Rec. MC e- 0.1824
Data π-
Data π+
dca (cm)

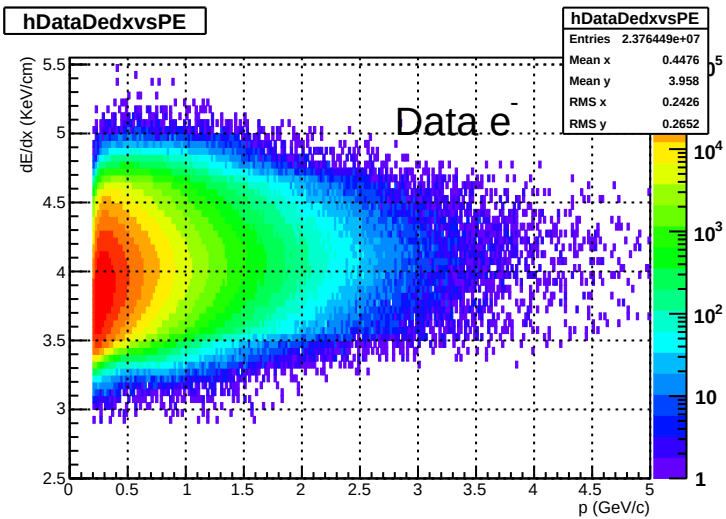

hRcDcavsPtE
3.2<p_T<3.4 (GeV/c)
hRcDcaE1_PtBin25
Entries 30051
Rec. MC e-+ 0.164
Rec. MC e- 0.1763
Data π-
Data π+
dca (cm)

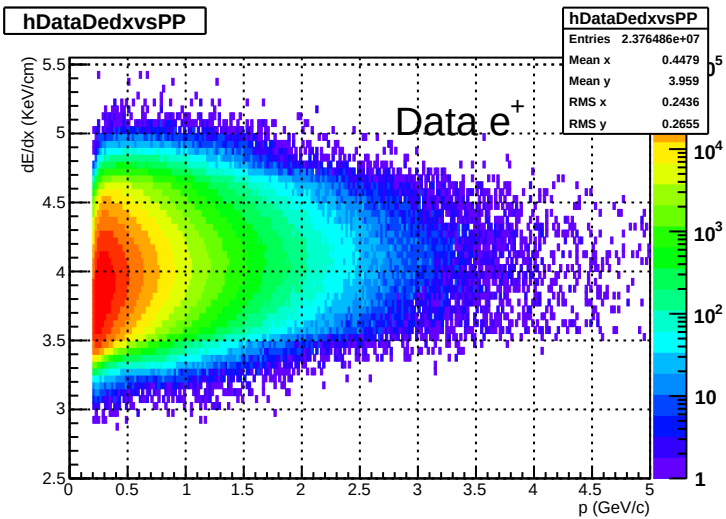

hRcDcavsPtE
3.4<p_T<3.6 (GeV/c)
hRcDcaE1_PtBin26
Entries 27172
Rec. MC e-+ 0.163
Rec. MC e- 0.178
Data π-
Data π+
dca (cm)

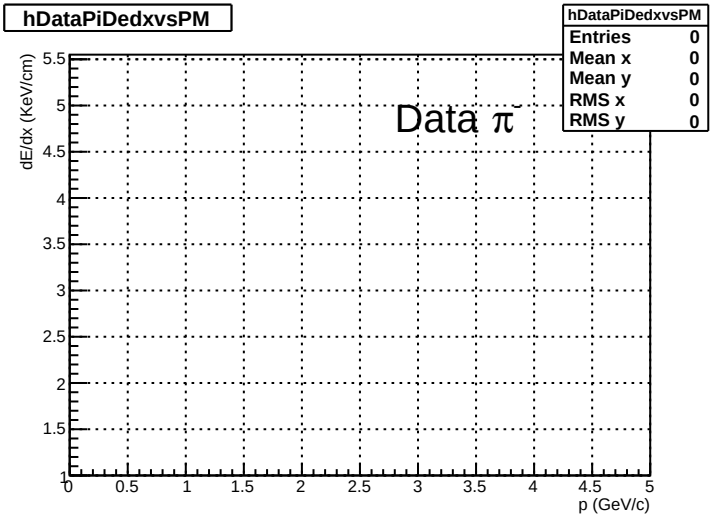

hRcDcavsPtE
3.6<p_T<4.0 (GeV/c)
hRcDcaE1_PtBin27
Entries 52911
Rec. MC e-+ 0.1562
Rec. MC e- 0.1621
Data π-
Data π+
dca (cm)

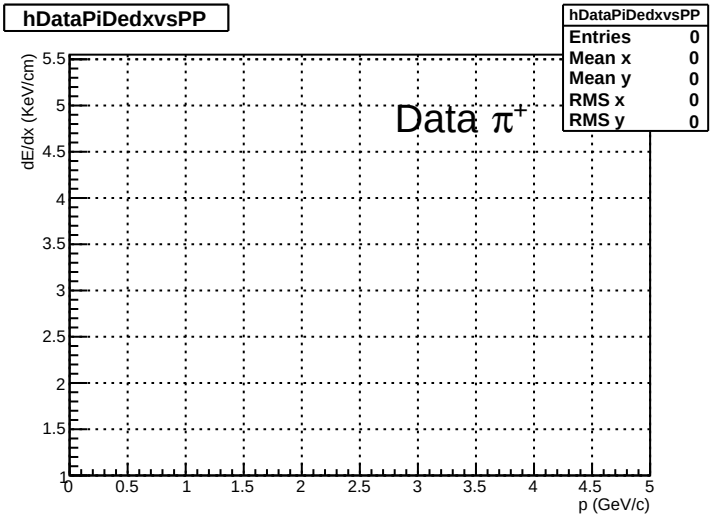

hRcDedxvsPE
hRcDedxvsPE
Entries 535452
Mean x 2.323
Mean y 4.423
RMS x 1.26
RMS y 0.3386
Rec. MC e+
dE/dx (KeV/cm)
p (GeV/c)

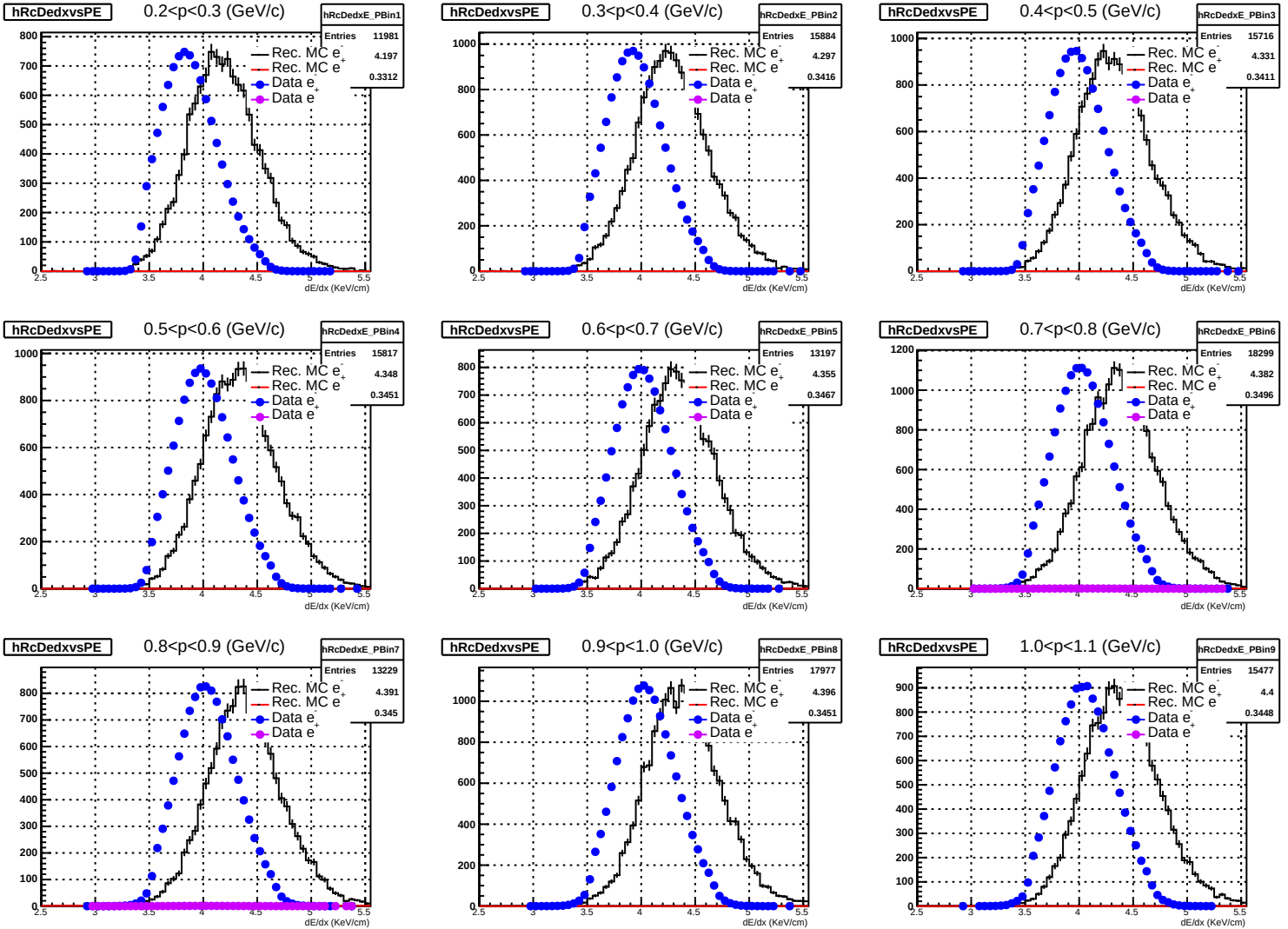

hRcDedxvsPP
hRcDedxvsPP
Entries 19
Mean x 0.81
Mean y 3.975
RMS x 0.04
RMS y 0.25
Rec. MC e+
dE/dx (KeV/cm)
p (GeV/c)

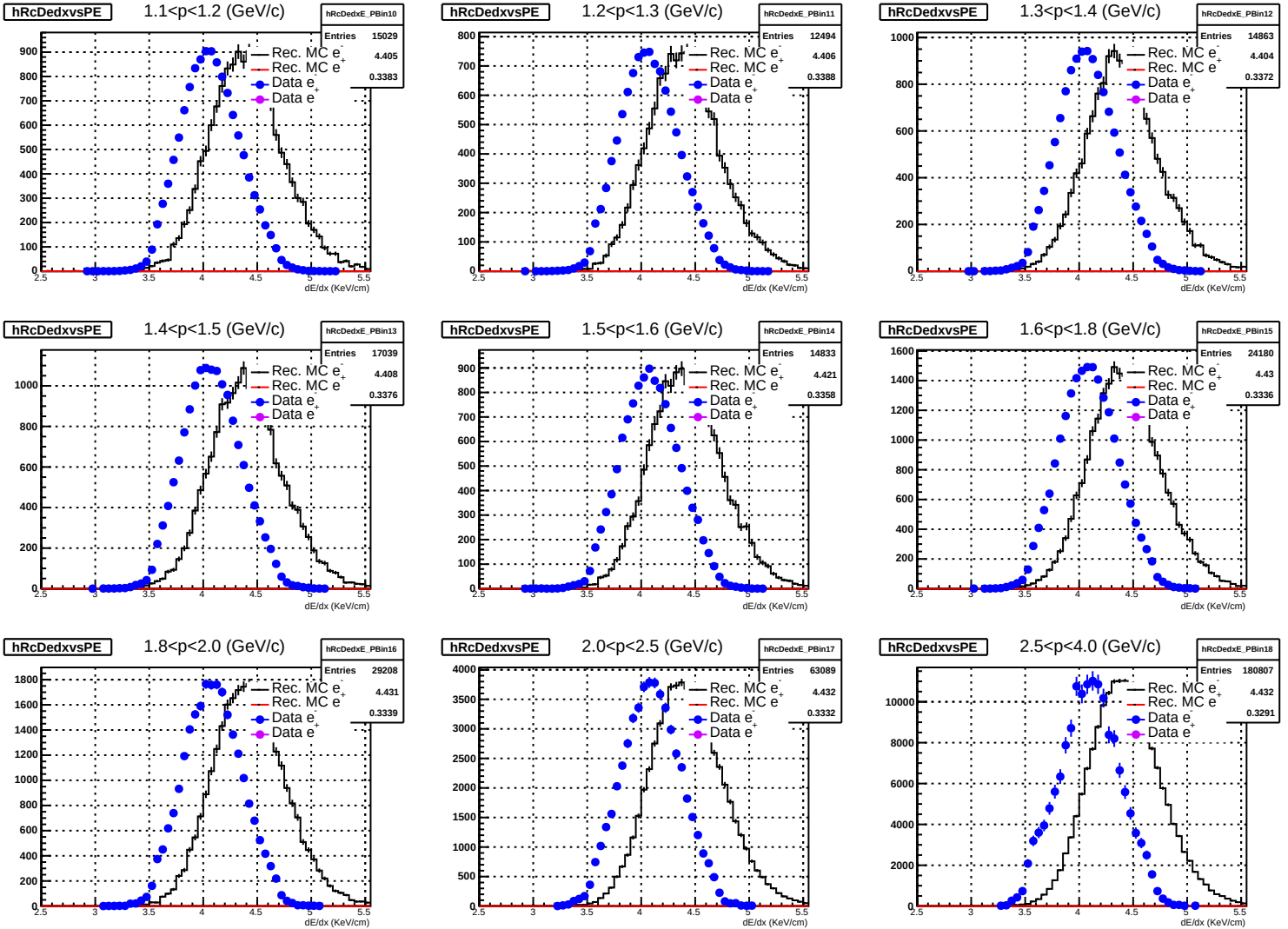

hDataDedxvsPE
hDataDedxvsPE
Entries 2.376449e+07
Mean x 0.4476
Mean y 3.958
RMS x 0.2426
RMS y 0.2652
Data e-
dE/dx (KeV/cm)
p (GeV/c)

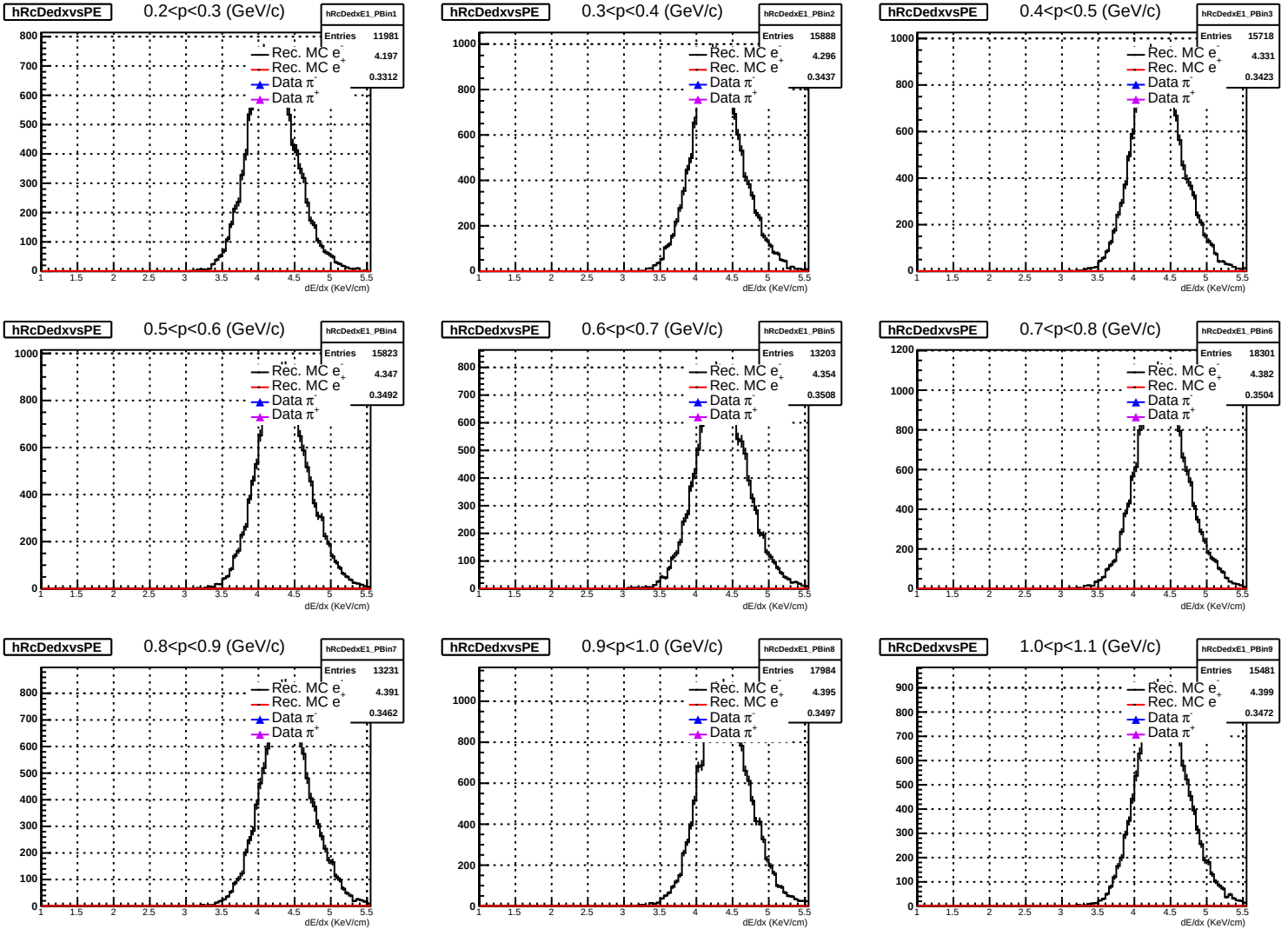

hDataDedxvsPP
hDataDedxvsPP
Entries 2.376486e+07
Mean x 0.4479
Mean y 3.959
RMS x 0.2436
RMS y 0.2655
Data e+
dE/dx (KeV/cm)
p (GeV/c)

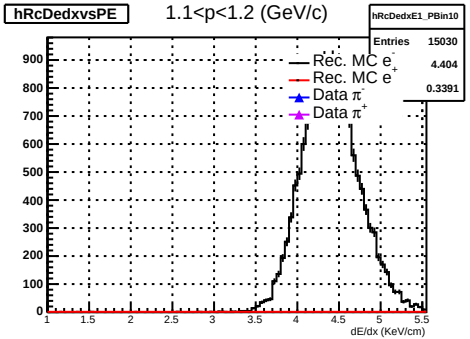

hDataPiDedxvsPM
hDataPiDedxvsPM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π⁻
dE/dx (KeV/cm)
p (GeV/c)

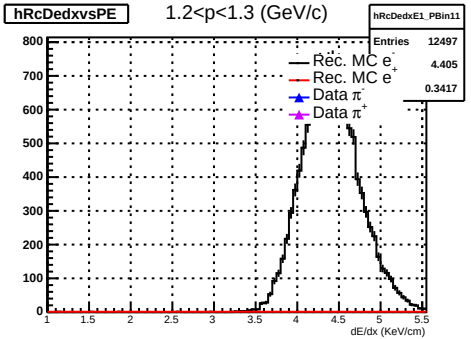

hDataPiDedxvsPP
hDataPiDedxvsPP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π⁺
dE/dx (KeV/cm)
p (GeV/c)

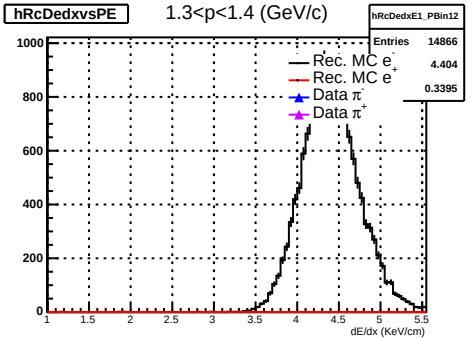

hRcDedxvsPE
0.2<p<0.3 (GeV/c)
hRcDedxE_PBin1
Entries 11981
4.197
0.3312
0.3<p<0.4 (GeV/c)
hRcDedxE_PBin2
Entries 15884
4.297
0.3416
0.4<p<0.5 (GeV/c)
hRcDedxE_PBin3
Entries 15716
4.331
0.3411
0.5<p<0.6 (GeV/c)
hRcDedxE_PBin4
Entries 15817
4.348
0.3451
0.6<p<0.7 (GeV/c)
hRcDedxE_PBin5
Entries 13197
4.355
0.3467
0.7<p<0.8 (GeV/c)
hRcDedxE_PBin6
Entries 18299
4.382
0.3496
0.8<p<0.9 (GeV/c)
hRcDedxE_PBin7
Entries 13229
4.391
0.345
0.9<p<1.0 (GeV/c)
hRcDedxE_PBin8
Entries 17977
4.396
0.3451
1.0<p<1.1 (GeV/c)
hRcDedxE_PBin9
Entries 15477
4.4
0.3448
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

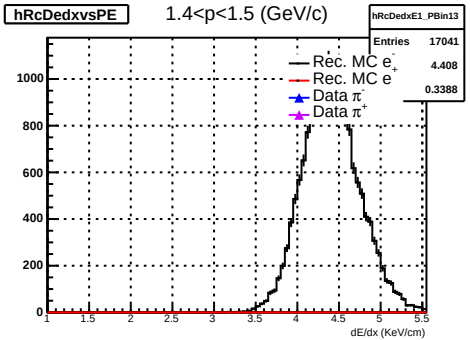

hRcDedxvsPE
1.1<p<1.2 (GeV/c)
hRcDedxE_PBin10
Entries 15029
4.405
0.3383
1.2<p<1.3 (GeV/c)
hRcDedxE_PBin11
Entries 12494
4.406
0.3388
1.3<p<1.4 (GeV/c)
hRcDedxE_PBin12
Entries 14863
4.404
0.3372
1.4<p<1.5 (GeV/c)
hRcDedxE_PBin13
Entries 17039
4.408
0.3376
1.5<p<1.6 (GeV/c)
hRcDedxE_PBin14
Entries 14833
4.421
0.3358
1.6<p<1.8 (GeV/c)
hRcDedxE_PBin15
Entries 24180
4.43
0.3336
1.8<p<2.0 (GeV/c)
hRcDedxE_PBin16
Entries 29208
4.431
0.3339
2.0<p<2.5 (GeV/c)
hRcDedxE_PBin17
Entries 63089
4.432
0.3332
2.5<p<4.0 (GeV/c)
hRcDedxE_PBin18
Entries 180807
4.432
0.3291
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

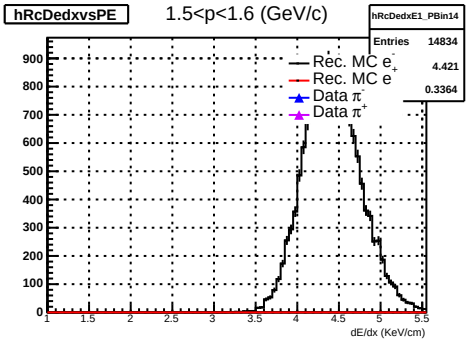

hRcDedxvsPE
0.2<p<0.3 (GeV/c)
hRcDedxE1_PBin1
Entries 11981
4.197
0.3312
0.3<p<0.4 (GeV/c)
hRcDedxE1_PBin2
Entries 15888
4.296
0.3437
0.4<p<0.5 (GeV/c)
hRcDedxE1_PBin3
Entries 15718
4.331
0.3423
0.5<p<0.6 (GeV/c)
hRcDedxE1_PBin4
Entries 15823
4.347
0.3492
0.6<p<0.7 (GeV/c)
hRcDedxE1_PBin5
Entries 13203
4.354
0.3508
0.7<p<0.8 (GeV/c)
hRcDedxE1_PBin6
Entries 18301
4.382
0.3504
0.8<p<0.9 (GeV/c)
hRcDedxE1_PBin7
Entries 13231
4.391
0.3462
0.9<p<1.0 (GeV/c)
hRcDedxE1_PBin8
Entries 17984
4.395
0.3497
1.0<p<1.1 (GeV/c)
hRcDedxE1_PBin9
Entries 15481
4.399
0.3472
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

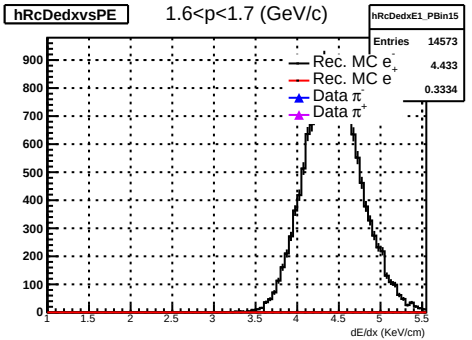

hRcDedxvsPE
1.1<p<1.2 (GeV/c)
hRcDedxE1_PBin10
Entries 15030
4.404
0.3391
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

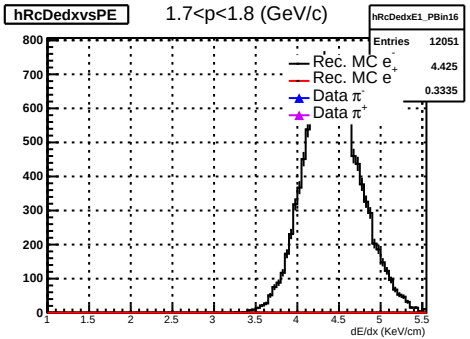

hRcDedxvsPE
1.2<p<1.3 (GeV/c)
hRcDedxE1_PBin11
Entries 12497
4.405
0.3417
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

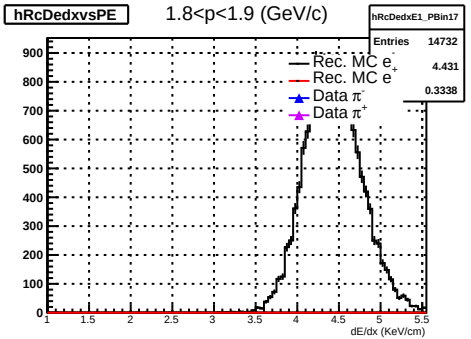

hRcDedxvsPE
1.3<p<1.4 (GeV/c)
hRcDedxE1_PBin12
Entries 14866
4.404
0.3395
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

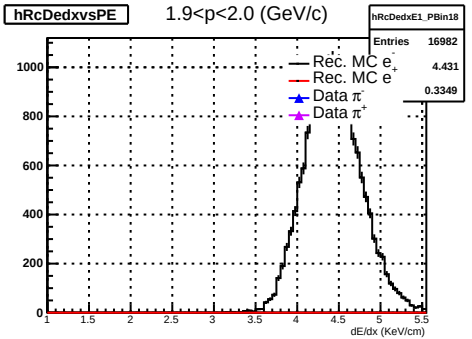

hRcDedxvsPE
1.4<p<1.5 (GeV/c)
hRcDedxE1_PBin13
Entries 17041
4.408
0.3388
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

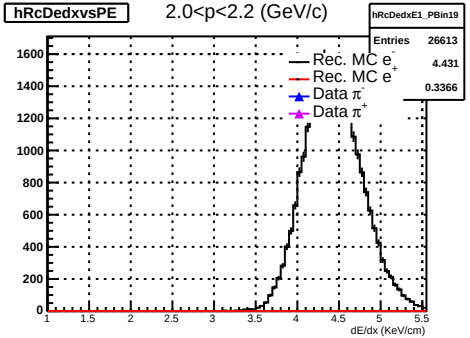

hRcDedxvsPE
1.5<p<1.6 (GeV/c)
hRcDedxE1_PBin14
Entries 14834
4.421
0.3364
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

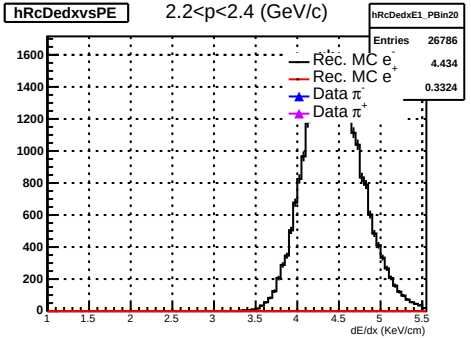

hRcDedxvsPE
1.6<p<1.7 (GeV/c)
hRcDedxE1_PBin15
Entries 14573
4.433
0.3334
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

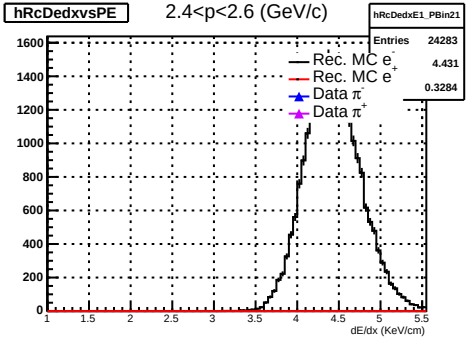

hRcDedxvsPE
1.7<p<1.8 (GeV/c)
hRcDedxE1_PBin16
Entries 12051
4.425
0.3335
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

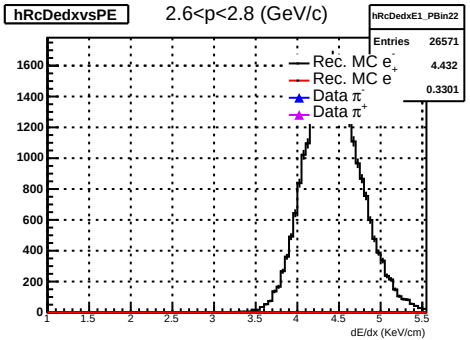

hRcDedxvsPE
1.8<p<1.9 (GeV/c)
hRcDedxE1_PBin17
Entries 14732
4.431
0.3338
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

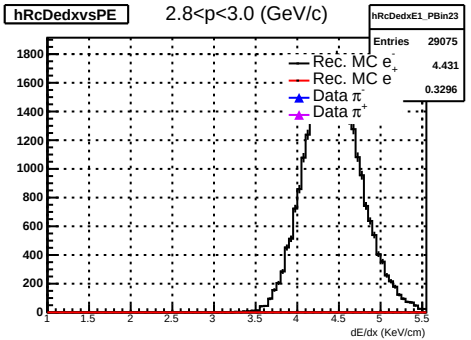

hRcDedxvsPE
1.9<p<2.0 (GeV/c)
hRcDedxE1_PBin18
Entries 16982
4.431
0.3349
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

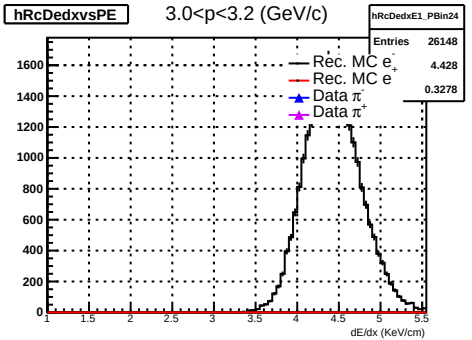

hRcDedxvsPE
2.0<p<2.2 (GeV/c)
hRcDedxE1_PBin19
Entries 26613
4.431
0.3366
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

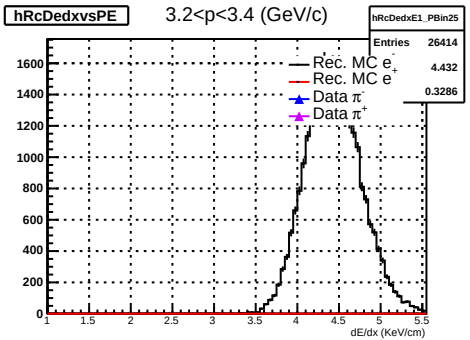

hRcDedxvsPE
2.2<p<2.4 (GeV/c)
hRcDedxE1_PBin20
Entries 26786
4.434
0.3324
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

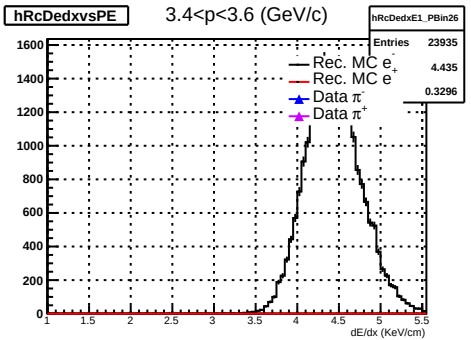

hRcDedxvsPE
2.4<p<2.6 (GeV/c)
hRcDedxE1_PBin21
Entries 24283
4.431
0.3284
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

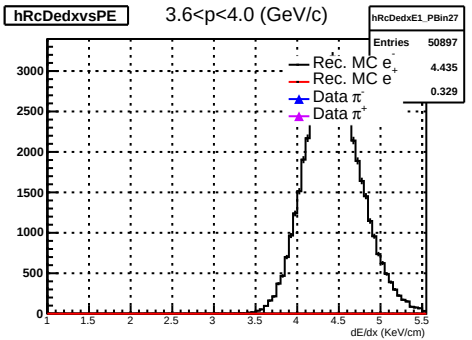

hRcDedxvsPE
2.6<p<2.8 (GeV/c)
hRcDedxE1_PBin22
Entries 26571
4.432
0.3301
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

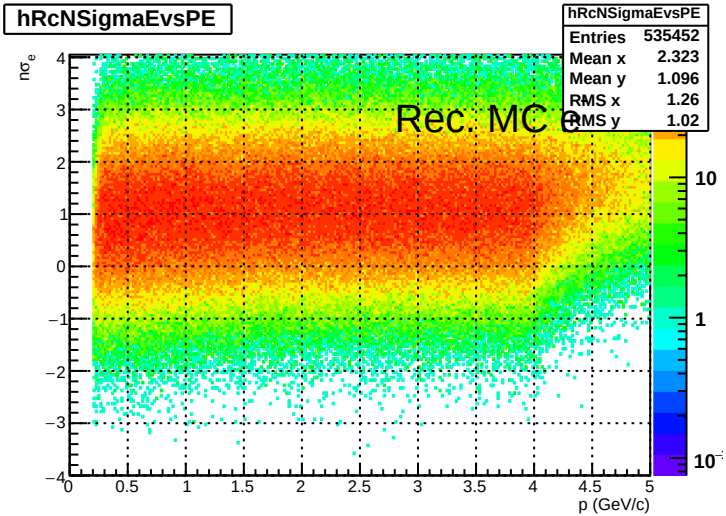

hRcDedxvsPE
2.8<p<3.0 (GeV/c)
hRcDedxE1_PBin23
Entries 29075
4.431
0.3296
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

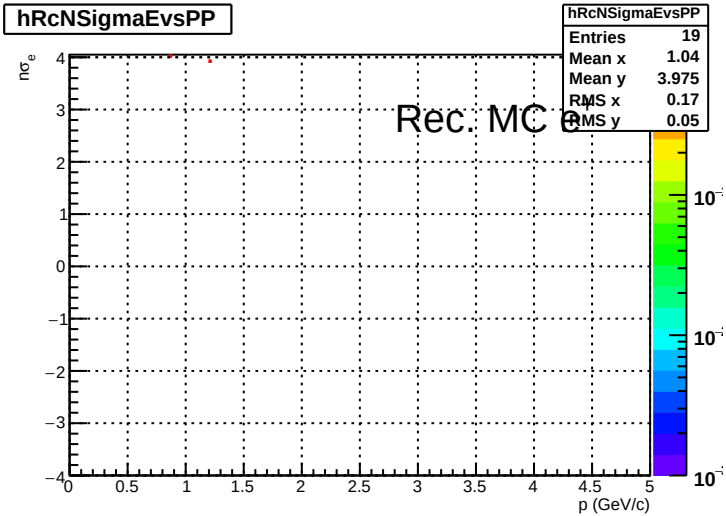

hRcDedxvsPE
3.0<p<3.2 (GeV/c)
hRcDedxE1_PBin24
Entries 26148
4.428
0.3278
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

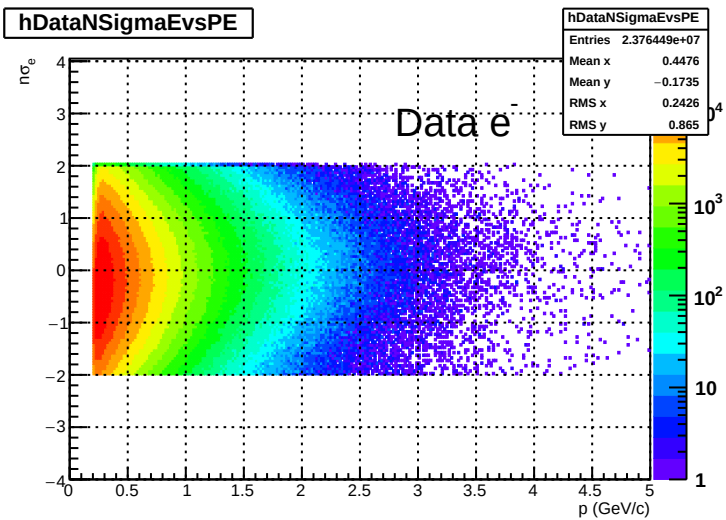

hRcDedxvsPE
3.2<p<3.4 (GeV/c)
hRcDedxE1_PBin25
Entries 26414
4.432
0.3286
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

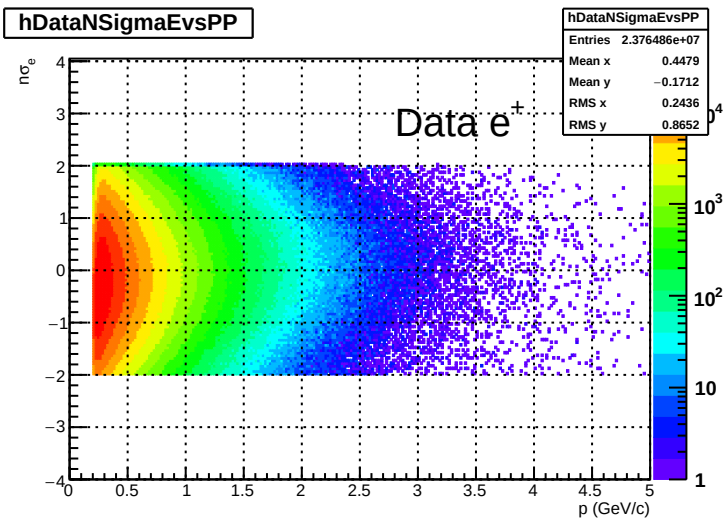

hRcDedxvsPE
3.4<p<3.6 (GeV/c)
hRcDedxE1_PBin26
Entries 23935
4.435
0.3296
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

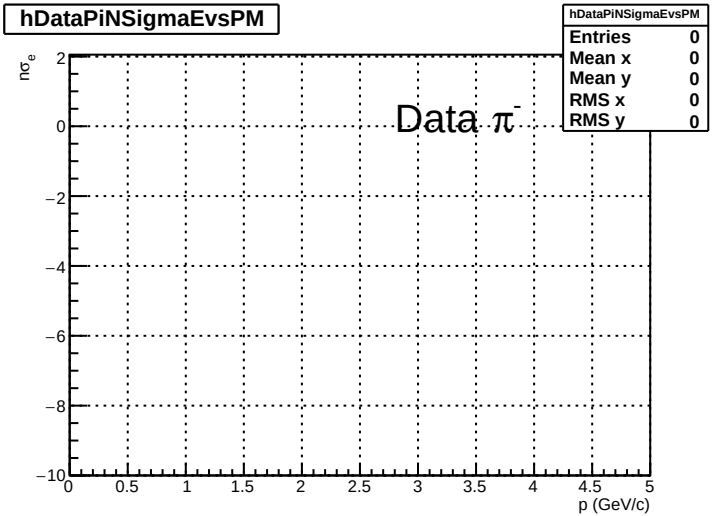

hRcDedxvsPE
3.6<p<4.0 (GeV/c)
hRcDedxE1_PBin27
Entries 50897
4.435
0.329
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

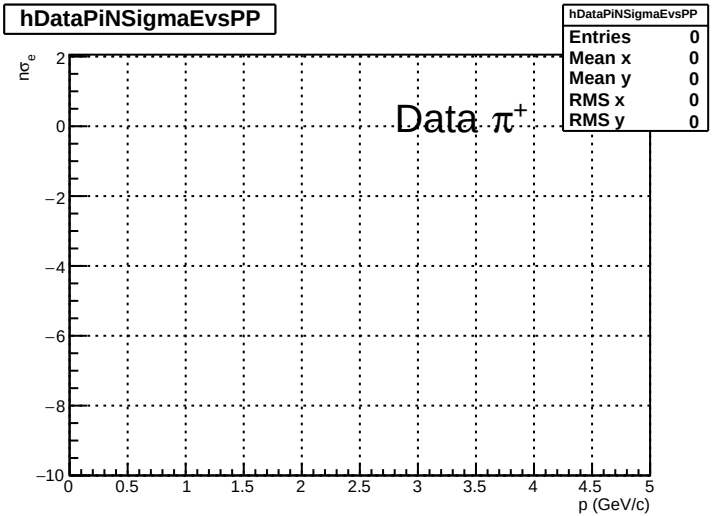

hRcNSigmaEvsPE
hRcNSigmaEvsPE
Entries 535452
Mean x 2.323
Mean y 1.096
RMS x 1.26
RMS y 1.02
Rec. MC e
nσe
p (GeV/c)

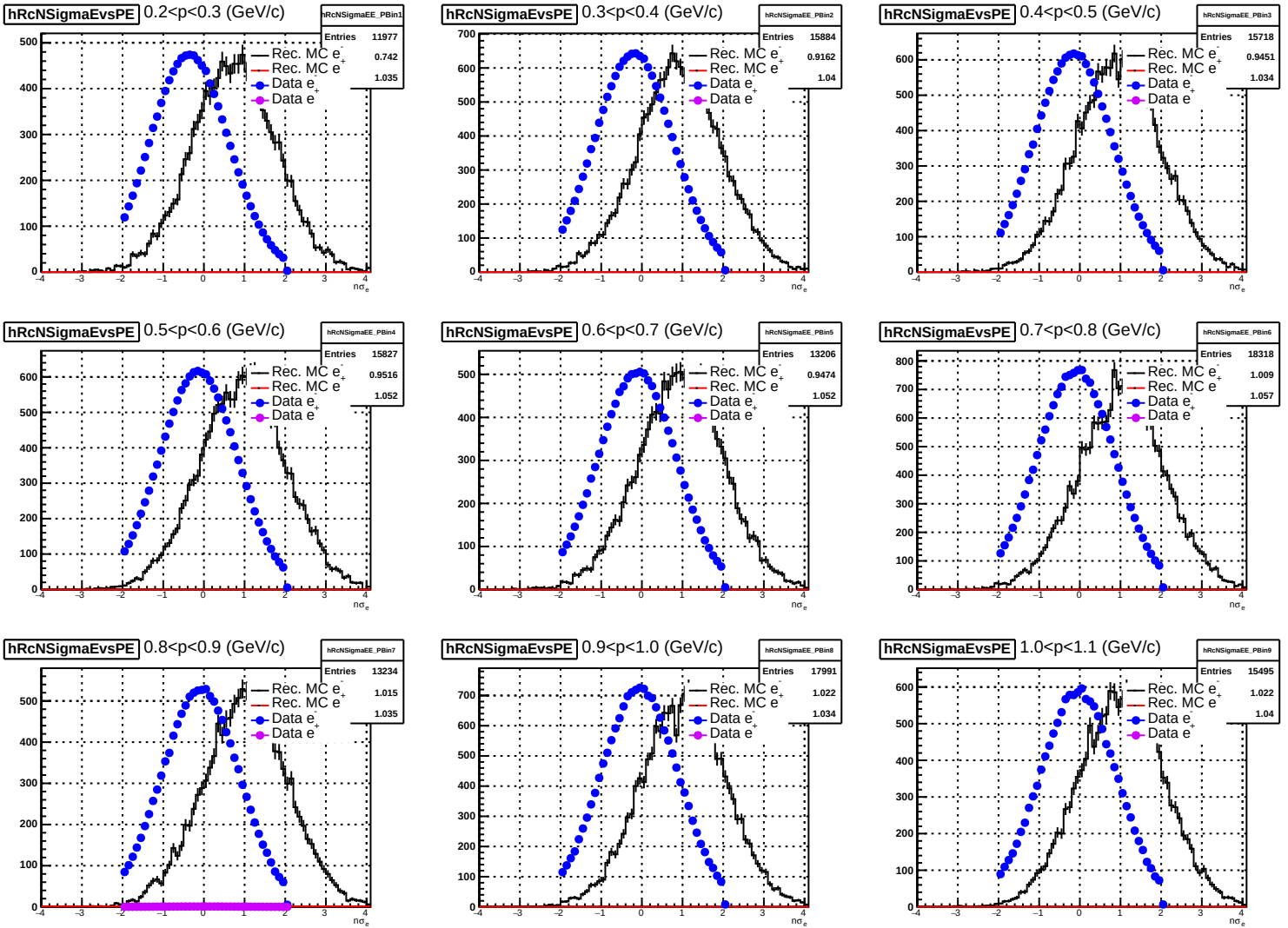

hRcNSigmaEvsPP
hRcNSigmaEvsPP
Entries 19
Mean x 1.04
Mean y 3.975
RMS x 0.17
RMS y 0.05
Rec. MC e
nσe
p (GeV/c)

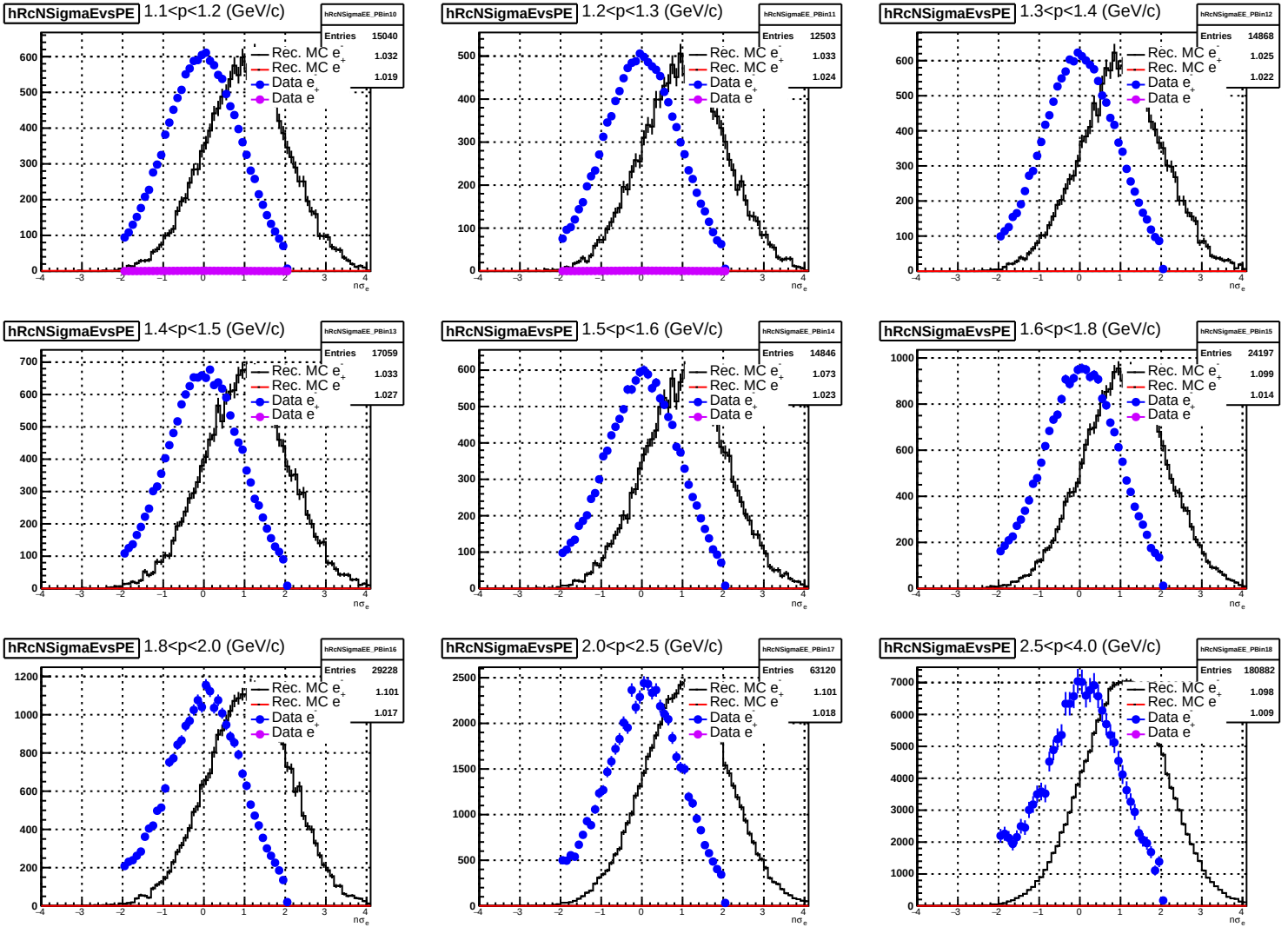

hDataNSigmaEvsPE
hDataNSigmaEvsPE
Entries 2.376449e+07
Mean x 0.4476
Mean y −0.1735
RMS x 0.2426
RMS y 0.865
Data e-
nσe
p (GeV/c)

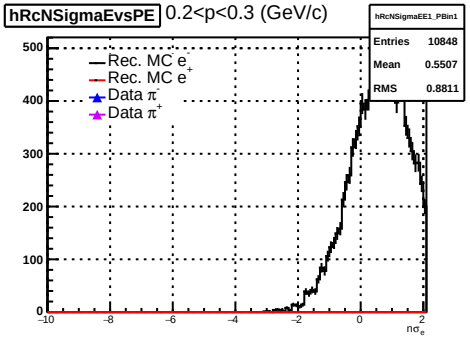

hDataNSigmaEvsPP
hDataNSigmaEvsPP
Entries 2.376486e+07
Mean x 0.4479
Mean y −0.1712
RMS x 0.2436
RMS y 0.8652
Data e+
nσe
p (GeV/c)

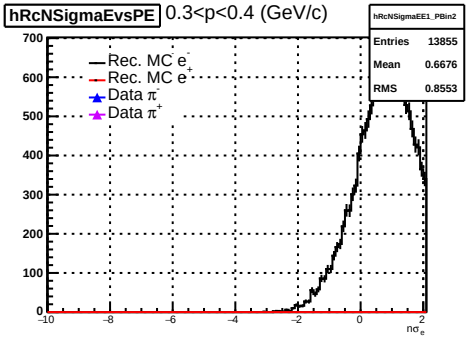

hDataPiNSigmaEvsPM
hDataPiNSigmaEvsPM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nσe
p (GeV/c)

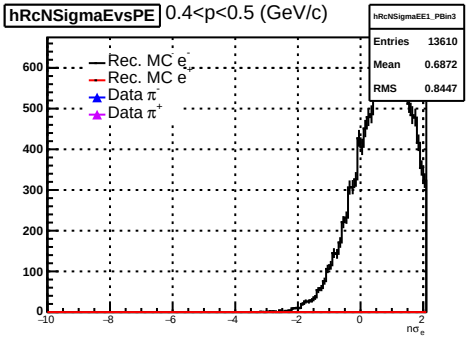

hDataPiNSigmaEvsPP
hDataPiNSigmaEvsPP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π+
nσe
p (GeV/c)

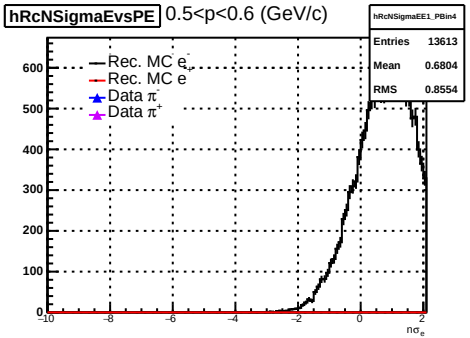

hRcNSigmaEvsPE 0.2<p<0.3 (GeV/c)
hRcNSigmaEE_PBin1
Entries 11977
0.742
1.035
hRcNSigmaEvsPE 0.3<p<0.4 (GeV/c)
hRcNSigmaEE_PBin2
Entries 15884
0.9162
1.04
hRcNSigmaEvsPE 0.4<p<0.5 (GeV/c)
hRcNSigmaEE_PBin3
Entries 15718
0.9451
1.034
hRcNSigmaEvsPE 0.5<p<0.6 (GeV/c)
hRcNSigmaEE_PBin4
Entries 15827
0.9516
1.052
hRcNSigmaEvsPE 0.6<p<0.7 (GeV/c)
hRcNSigmaEE_PBin5
Entries 13206
0.9474
1.052
hRcNSigmaEvsPE 0.7<p<0.8 (GeV/c)
hRcNSigmaEE_PBin6
Entries 18318
1.009
1.057
hRcNSigmaEvsPE 0.8<p<0.9 (GeV/c)
hRcNSigmaEE_PBin7
Entries 13234
1.015
1.035
hRcNSigmaEvsPE 0.9<p<1.0 (GeV/c)
hRcNSigmaEE_PBin8
Entries 17991
1.022
1.034
hRcNSigmaEvsPE 1.0<p<1.1 (GeV/c)
hRcNSigmaEE_PBin9
Entries 15495
1.022
1.04
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

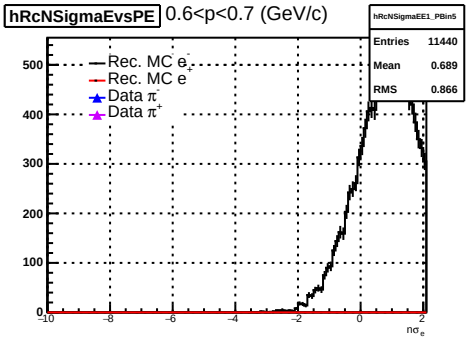

hRcNSigmaEvsPE 1.1<p<1.2 (GeV/c)
hRcNSigmaEE_PBin10
Entries 15040
1.032
1.019
hRcNSigmaEvsPE 1.2<p<1.3 (GeV/c)
hRcNSigmaEE_PBin11
Entries 12503
1.033
1.024
hRcNSigmaEvsPE 1.3<p<1.4 (GeV/c)
hRcNSigmaEE_PBin12
Entries 14868
1.025
1.022
hRcNSigmaEvsPE 1.4<p<1.5 (GeV/c)
hRcNSigmaEE_PBin13
Entries 17059
1.033
1.027
hRcNSigmaEvsPE 1.5<p<1.6 (GeV/c)
hRcNSigmaEE_PBin14
Entries 14846
1.073
1.023
hRcNSigmaEvsPE 1.6<p<1.8 (GeV/c)
hRcNSigmaEE_PBin15
Entries 24197
1.099
1.014
hRcNSigmaEvsPE 1.8<p<2.0 (GeV/c)
hRcNSigmaEE_PBin16
Entries 29228
1.101
1.017
hRcNSigmaEvsPE 2.0<p<2.5 (GeV/c)
hRcNSigmaEE_PBin17
Entries 63120
1.101
1.018
hRcNSigmaEvsPE 2.5<p<4.0 (GeV/c)
hRcNSigmaEE_PBin18
Entries 180882
1.098
1.009
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

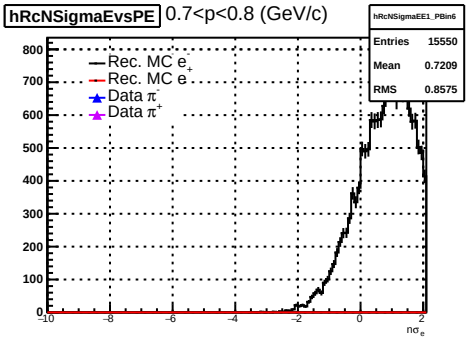

hRcNSigmaEvsPE 0.2<p<0.3 (GeV/c)
hRcNSigmaEE1_PBin1
Entries 10848
Mean 0.5507
RMS 0.8811
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

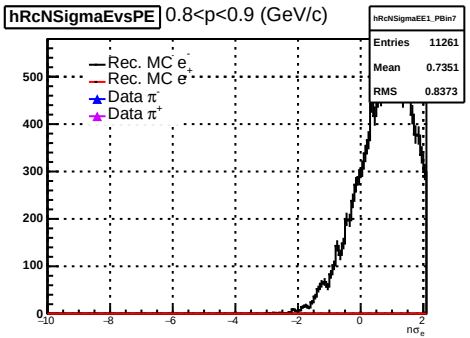

hRcNSigmaEvsPE 0.3<p<0.4 (GeV/c)
hRcNSigmaEE1_PBin2
Entries 13855
Mean 0.6676
RMS 0.8553
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

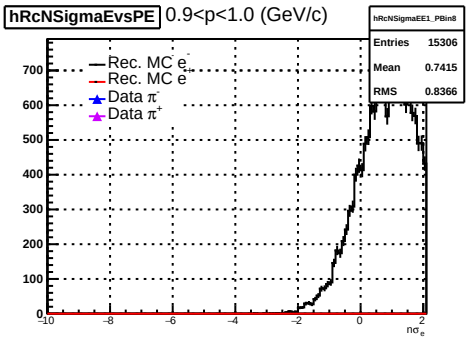

hRcNSigmaEvsPE 0.4<p<0.5 (GeV/c)
hRcNSigmaEE1_PBin3
Entries 13610
Mean 0.6872
RMS 0.8447
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

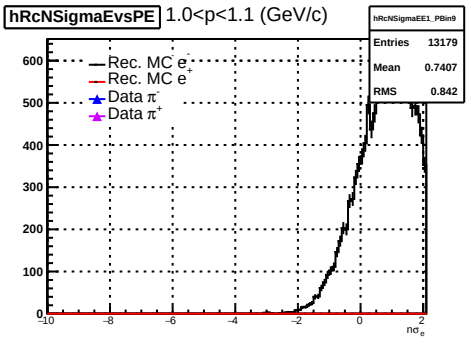

hRcNSigmaEvsPE 0.5<p<0.6 (GeV/c)
hRcNSigmaEE1_PBin4
Entries 13613
Mean 0.6804
RMS 0.8554
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

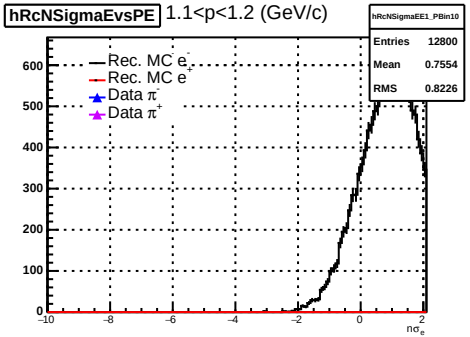

hRcNSigmaEvsPE 0.6<p<0.7 (GeV/c)
hRcNSigmaEE1_PBin5
Entries 11440
Mean 0.689
RMS 0.866
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

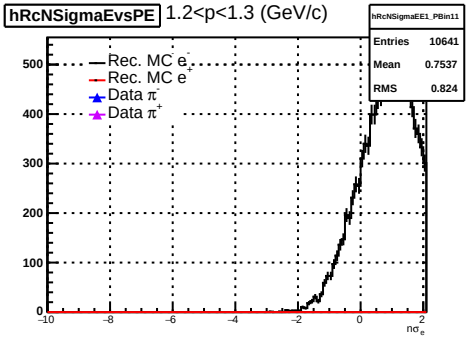

hRcNSigmaEvsPE 0.7<p<0.8 (GeV/c)
hRcNSigmaEE1_PBin6
Entries 15550
Mean 0.7209
RMS 0.8575
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

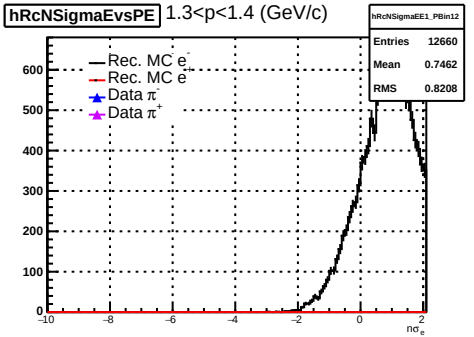

hRcNSigmaEvsPE 0.8<p<0.9 (GeV/c)
hRcNSigmaEE1_PBin7
Entries 11261
Mean 0.7351
RMS 0.8373
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

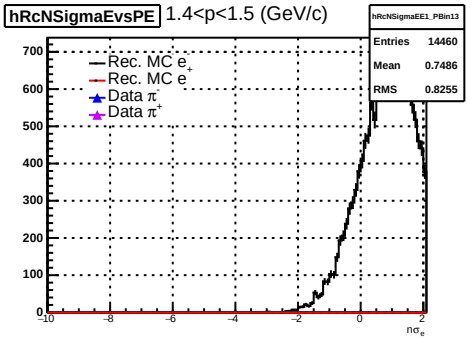

hRcNSigmaEvsPE 0.9<p<1.0 (GeV/c)
hRcNSigmaEE1_PBin8
Entries 15306
Mean 0.7415
RMS 0.8366
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

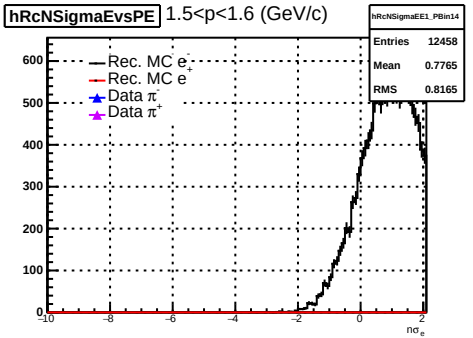

hRcNSigmaEvsPE 1.0<p<1.1 (GeV/c)
hRcNSigmaEE1_PBin9
Entries 13179
Mean 0.7407
RMS 0.842
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

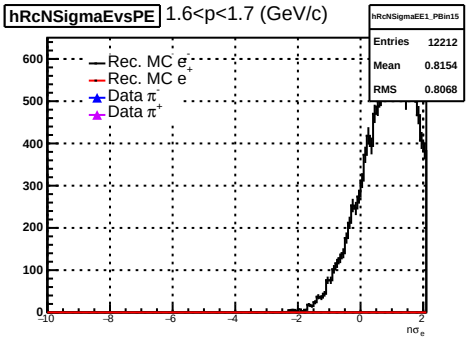

hRcNSigmaEvsPE
1.1<p<1.2 (GeV/c)
hRcNSigmaEE1_PBin10
Entries 12800
Mean 0.7554
RMS 0.8226
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

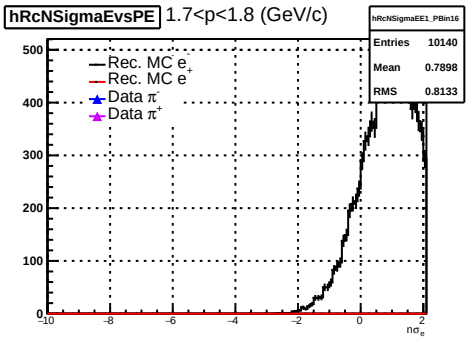

hRcNSigmaEvsPE
1.2<p<1.3 (GeV/c)
hRcNSigmaEE1_PBin11
Entries 10641
Mean 0.7537
RMS 0.824
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

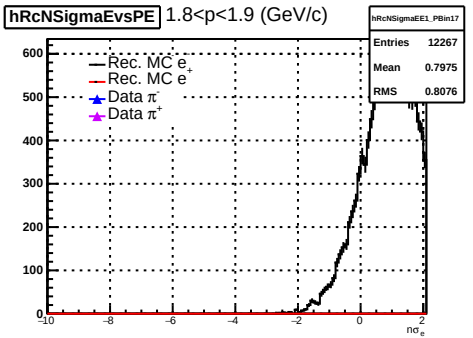

hRcNSigmaEvsPE
1.3<p<1.4 (GeV/c)
hRcNSigmaEE1_PBin12
Entries 12660
Mean 0.7462
RMS 0.8208
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

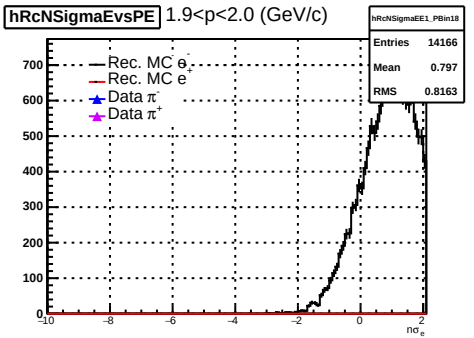

hRcNSigmaEvsPE
1.4<p<1.5 (GeV/c)
hRcNSigmaEE1_PBin13
Entries 14460
Mean 0.7486
RMS 0.8255
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

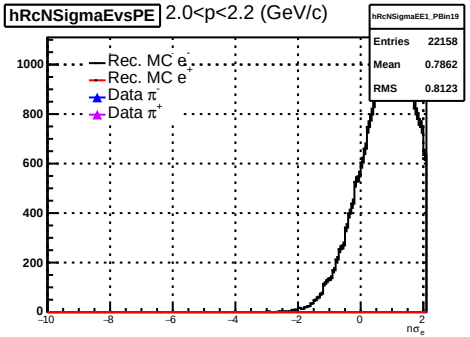

hRcNSigmaEvsPE
1.5<p<1.6 (GeV/c)
hRcNSigmaEE1_PBin14
Entries 12458
Mean 0.7765
RMS 0.8165
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

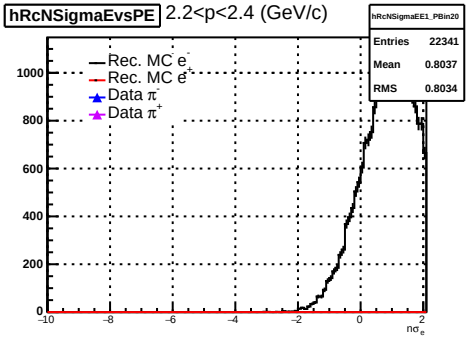

hRcNSigmaEvsPE
1.6<p<1.7 (GeV/c)
hRcNSigmaEE1_PBin15
Entries 12212
Mean 0.8154
RMS 0.8068
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

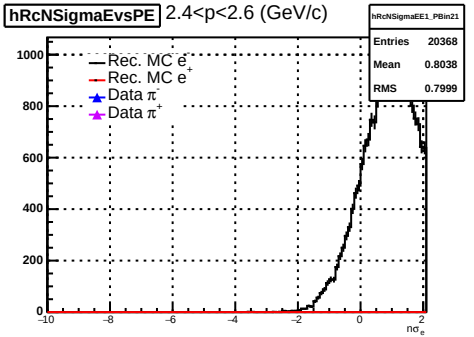

hRcNSigmaEvsPE
1.7<p<1.8 (GeV/c)
hRcNSigmaEE1_PBin16
Entries 10140
Mean 0.7898
RMS 0.8133
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

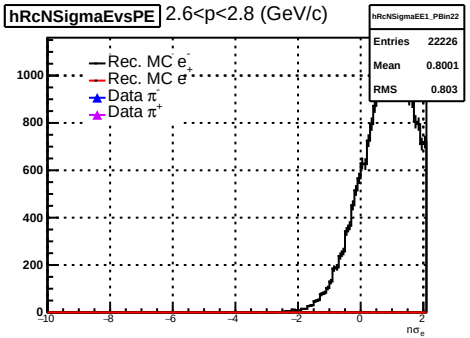

hRcNSigmaEvsPE
1.8<p<1.9 (GeV/c)
hRcNSigmaEE1_PBin17
Entries 12267
Mean 0.7975
RMS 0.8076
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

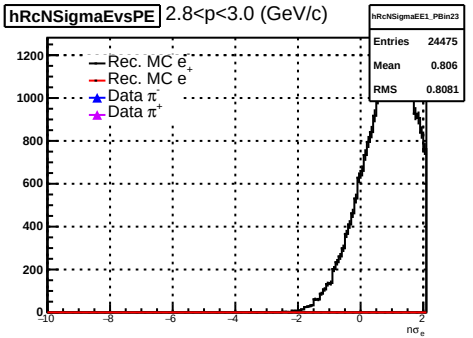

hRcNSigmaEvsPE
1.9<p<2.0 (GeV/c)
hRcNSigmaEE1_PBin18
Entries 14166
Mean 0.797
RMS 0.8163
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

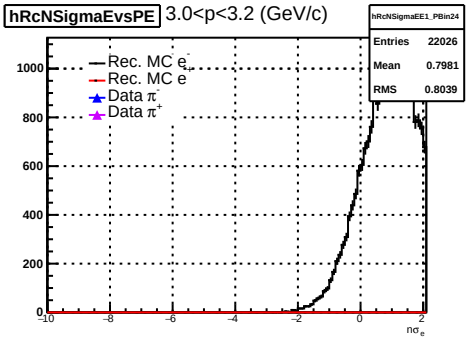

hRcNSigmaEvsPE
2.0<p<2.2 (GeV/c)
hRcNSigmaEE1_PBin19
Entries 22158
Mean 0.7862
RMS 0.8123
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

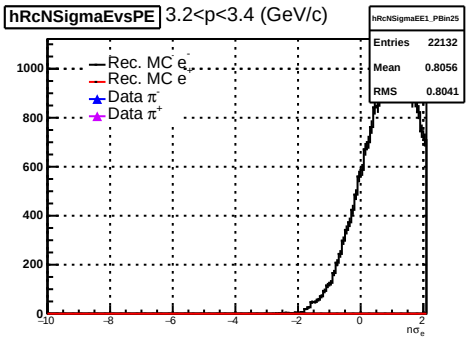

hRcNSigmaEvsPE
2.2<p<2.4 (GeV/c)
hRcNSigmaEE1_PBin20
Entries 22341
Mean 0.8037
RMS 0.8034
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

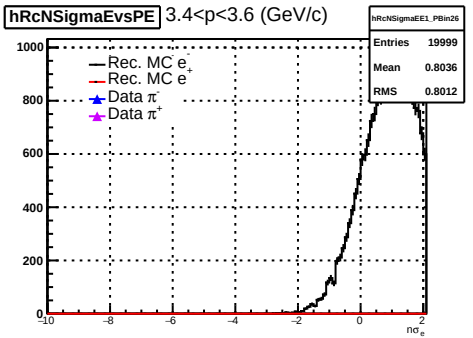

hRcNSigmaEvsPE
2.4<p<2.6 (GeV/c)
hRcNSigmaEE1_PBin21
Entries 20368
Mean 0.8038
RMS 0.7999
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

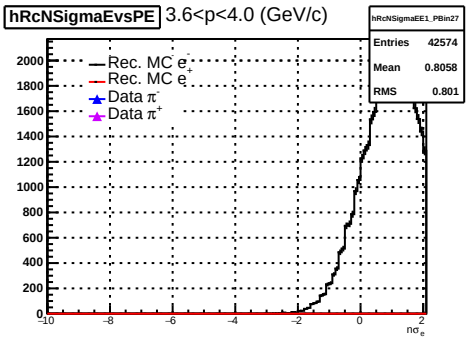

hRcNSigmaEvsPE
2.6<p<2.8 (GeV/c)
hRcNSigmaEE1_PBin22
Entries 22226
Mean 0.8001
RMS 0.803
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
2.8<p<3.0 (GeV/c)
hRcNSigmaEE1_PBin23
Entries 24475
Mean 0.806
RMS 0.8081
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
3.0<p<3.2 (GeV/c)
hRcNSigmaEE1_PBin24
Entries 22026
Mean 0.7981
RMS 0.8039
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
3.2<p<3.4 (GeV/c)
hRcNSigmaEE1_PBin25
Entries 22132
Mean 0.8056
RMS 0.8041
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
3.4<p<3.6 (GeV/c)
hRcNSigmaEE1_PBin26
Entries 19999
Mean 0.8036
RMS 0.8012
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
3.6<p<4.0 (GeV/c)
hRcNSigmaEE1_PBin27
Entries 42574
Mean 0.8058
RMS 0.801
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

Fri May 31 21:55:26 2019