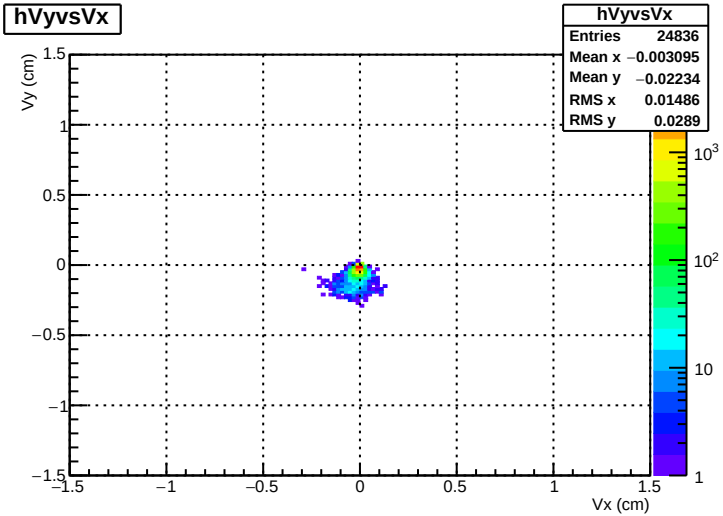
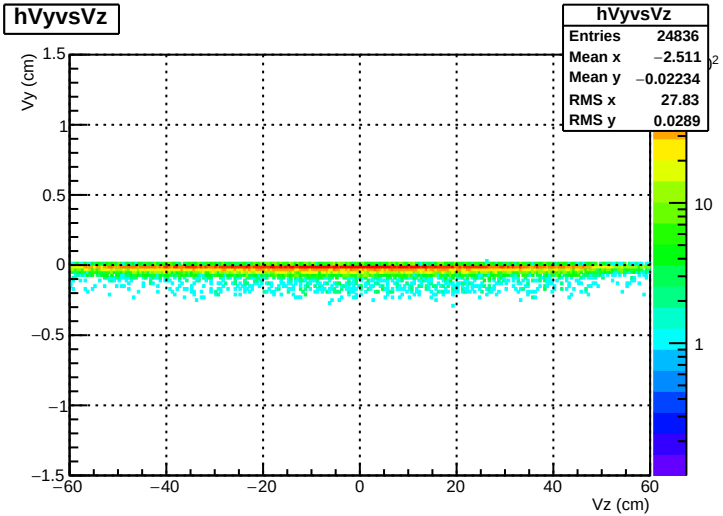
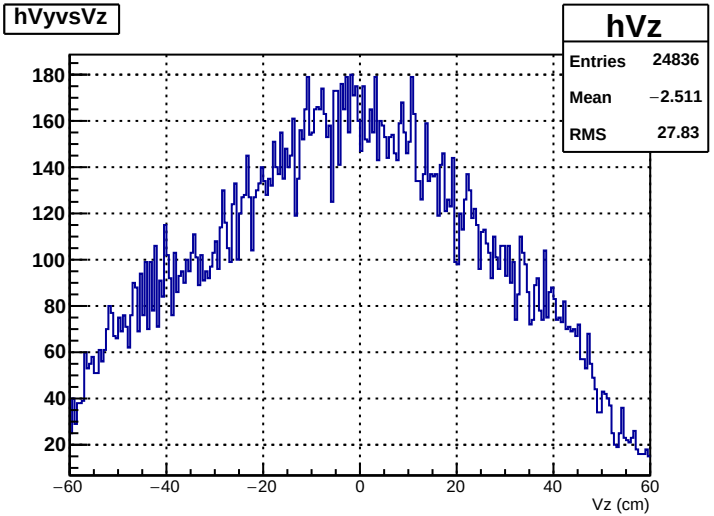
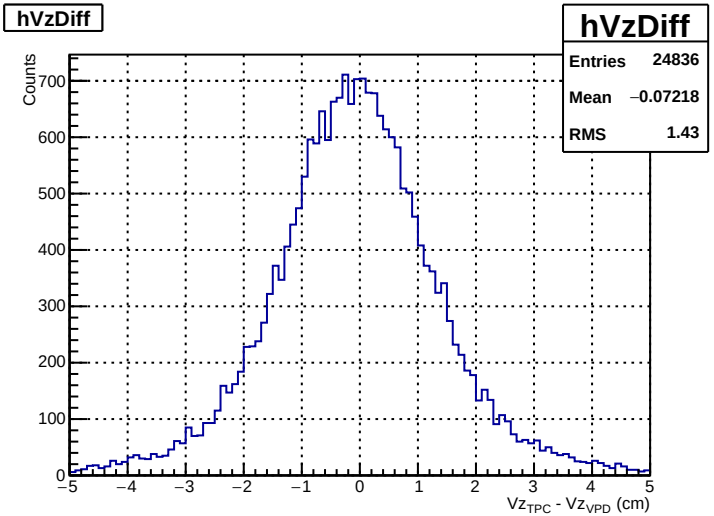
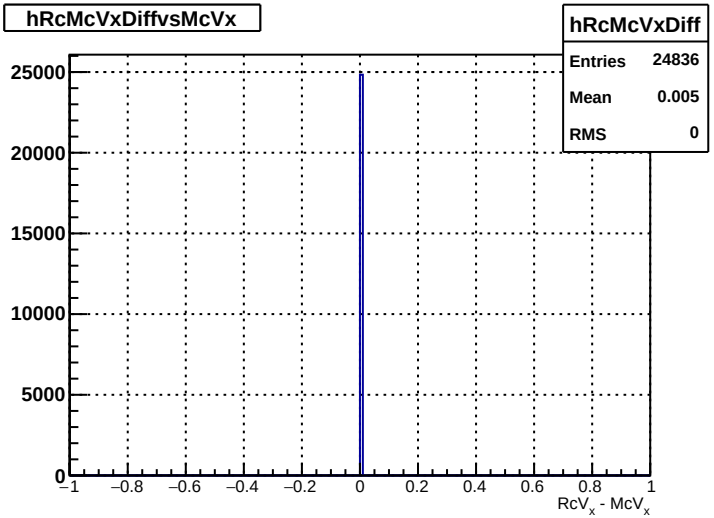
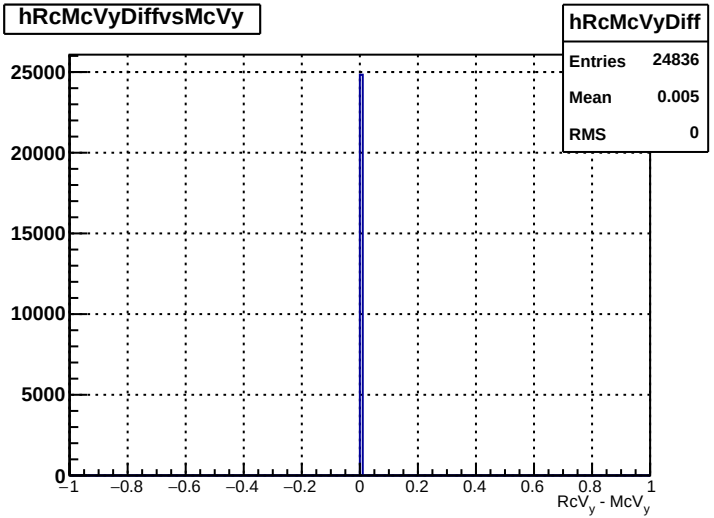

hVyvsVx
hVyvsVx
Entries 24836
Mean x −0.003095
Mean y −0.02234
RMS x 0.01486
RMS y 0.0289
Vy (cm)
Vx (cm)

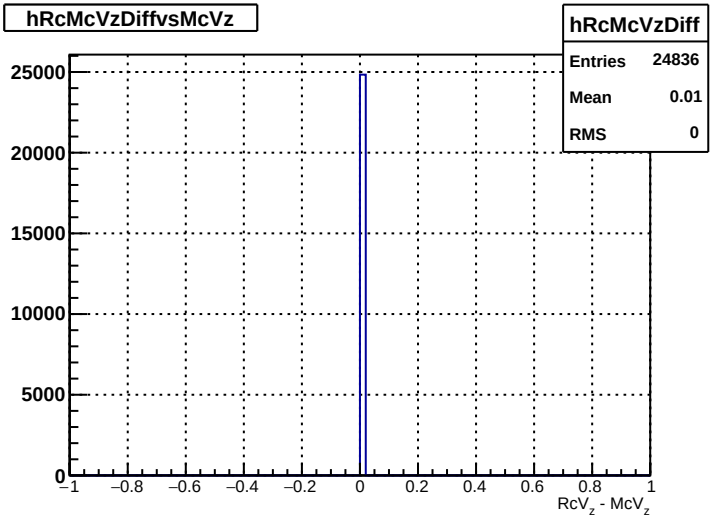

hVyvsVz
hVyvsVz
Entries 24836
Mean x −2.511
Mean y −0.02234
RMS x 27.83
RMS y 0.0289
Vy (cm)
Vz (cm)

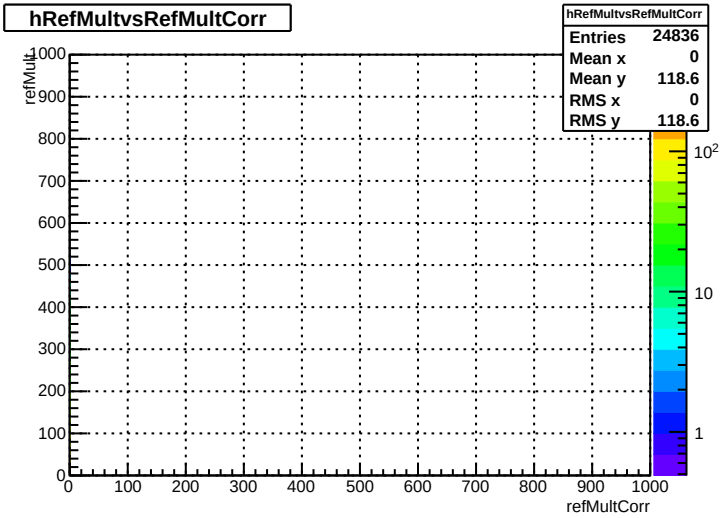

hVyvsVz
hVz
Entries 24836
Mean −2.511
RMS 27.83
Vz (cm)

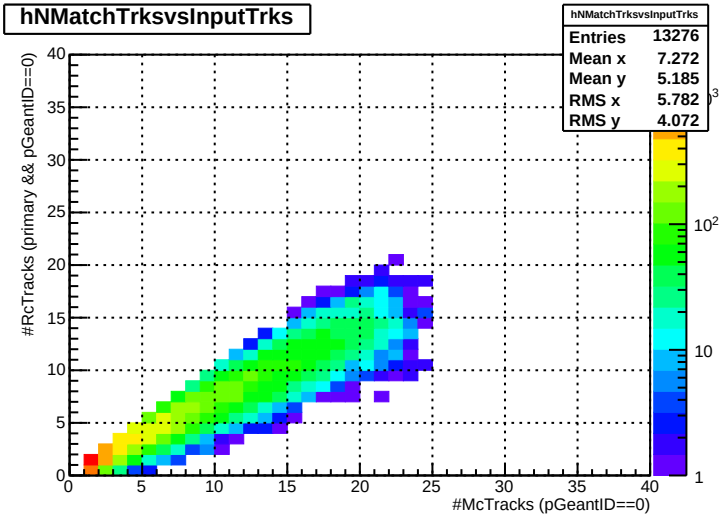

hVzDiff
hVzDiff
Entries 24836
Mean −0.07218
RMS 1.43
Counts
Vz_TPC - Vz_VPD (cm)

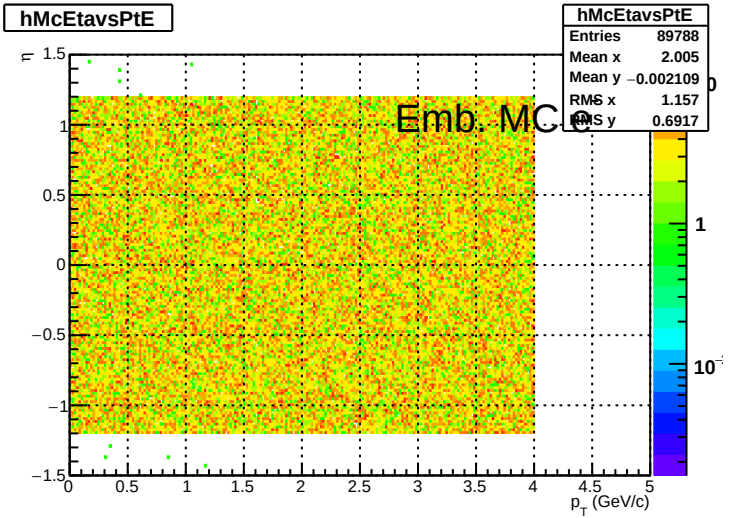

hRcMcVxDiffvsMcVx
hRcMcVxDiff
Entries 24836
Mean 0.005
RMS 0
25000
20000
15000
10000
5000
0
−1 −0.8 −0.6 −0.4 −0.2 0 0.2 0.4 0.6 0.8 1
RcV_x - McV_x

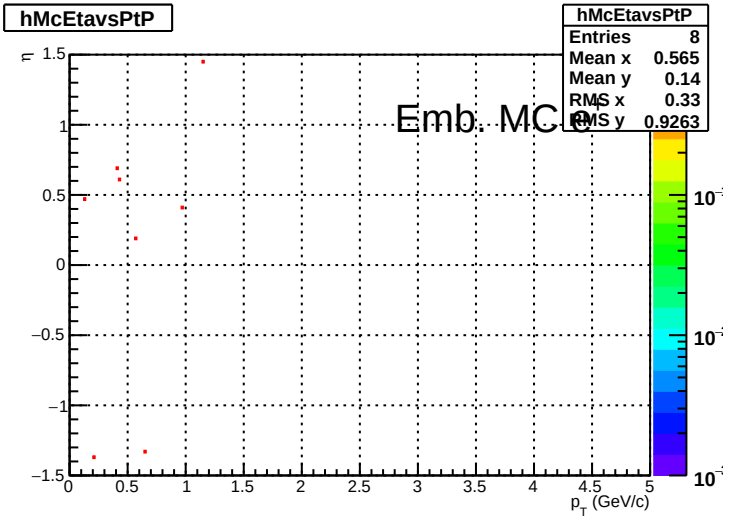

hRcMcVyDiffvsMcVy
hRcMcVyDiff
Entries 24836
Mean 0.005
RMS 0
25000
20000
15000
10000
5000
0
−1 −0.8 −0.6 −0.4 −0.2 0 0.2 0.4 0.6 0.8 1
RcV_y - McV_y

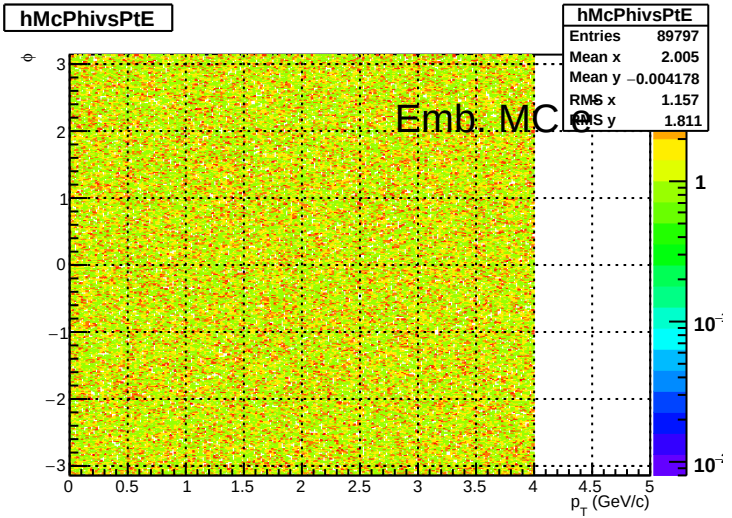

hRcMcVzDiffvsMcVz
hRcMcVzDiff
Entries 24836
Mean 0.01
RMS 0
25000
20000
15000
10000
5000
0
−1 −0.8 −0.6 −0.4 −0.2 0 0.2 0.4 0.6 0.8 1
RcV_z - McV_z

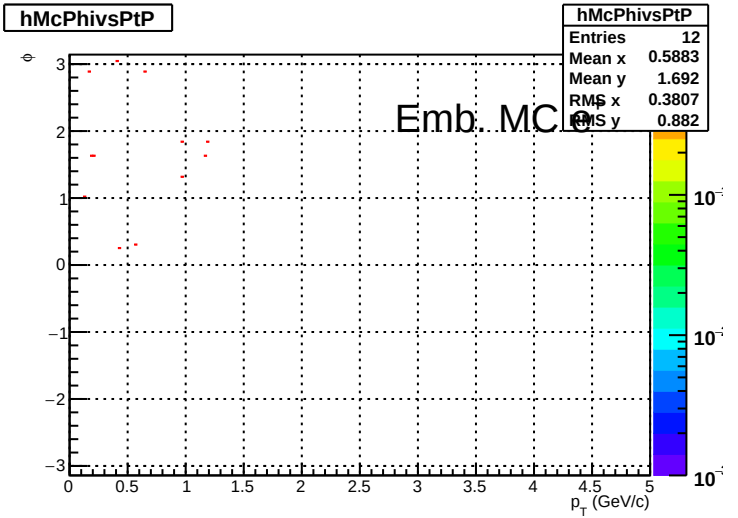

hRefMultvsRefMultCorr
hRefMultvsRefMultCorr
Entries 24836
Mean x 0
Mean y 118.6
RMS x 0
RMS y 118.6
refMult
refMultCorr

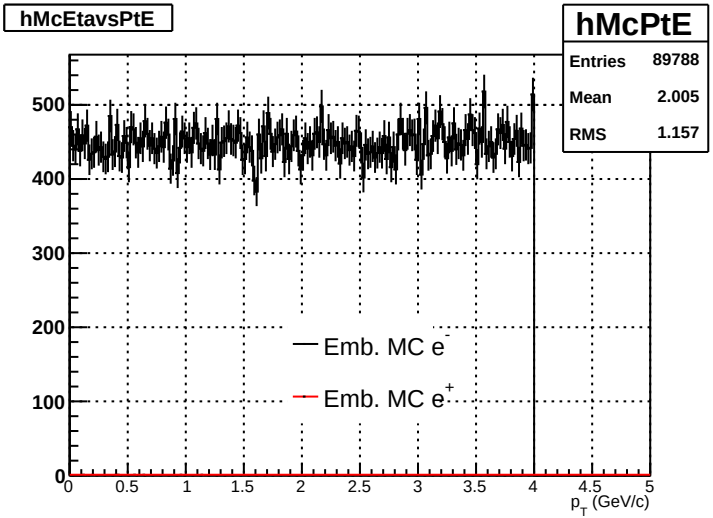

hNMatchTrksvsInputTrks
hNMatchTrksvsInputTrks
Entries 13276
Mean x 7.272
Mean y 5.185
RMS x 5.782
RMS y 4.072
#RcTracks (primary && pGeantID==0)
#McTracks (pGeantID==0)

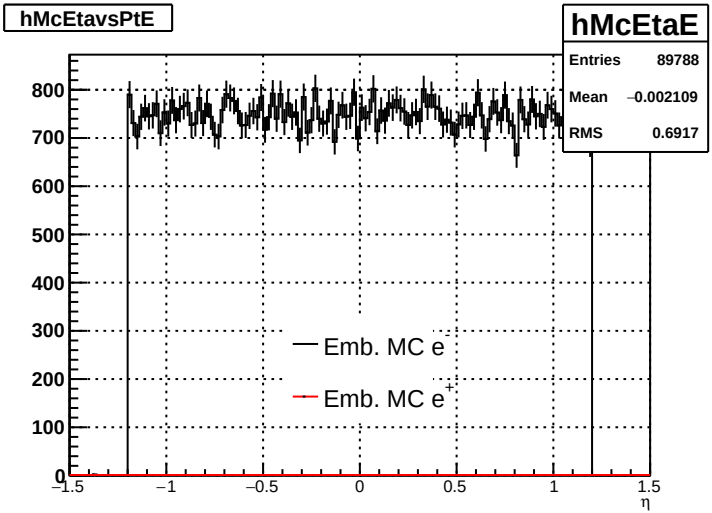

hMcEtavsPtE
hMcEtavsPtE
Entries 89788
Mean x 2.005
Mean y −0.002109
RMS x 1.157
RMS y 0.6917
Emb. MC
η
p_T (GeV/c)

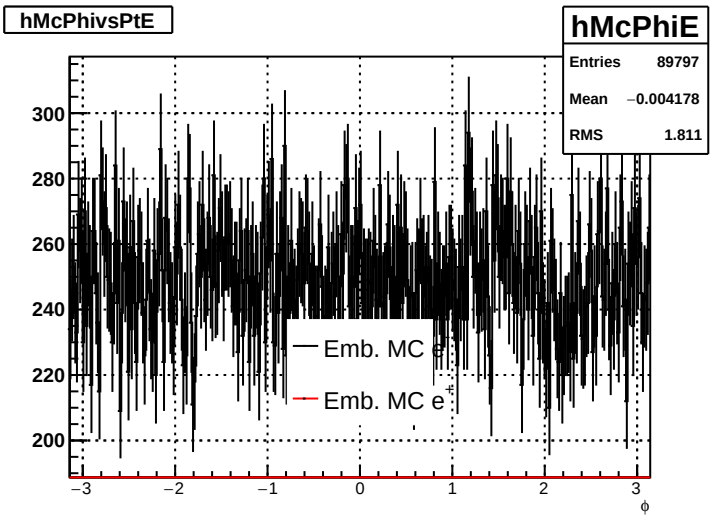

hMcEtavsPtP
hMcEtavsPtP
Entries 8
Mean x 0.565
Mean y 0.14
RMS x 0.33
RMS y 0.9263
Emb. MC
η
p_T (GeV/c)


hMcPhivsPtE
hMcPhivsPtE
Entries 89797
Mean x 2.005
Mean y −0.004178
RMS x 1.157
RMS y 1.811
Emb. MC
φ
p_T (GeV/c)


hMcPhivsPtP
hMcPhivsPtP
Entries 12
Mean x 0.5883
Mean y 1.692
RMS x 0.3807
RMS y 0.882
Emb. MC
φ
p_T (GeV/c)


hMcEtavsPtE
hMcPtE
Entries 89788
Mean 2.005
RMS 1.157
Emb. MC e-
Emb. MC e+
pT (GeV/c)


hMcEtavsPtE
hMcEtaE
Entries 89788
Mean −0.002109
RMS 0.6917
Emb. MC e-
Emb. MC e+
η


hMcPhivsPtE
hMcPhiE
Entries 89797
Mean −0.004178
RMS 1.811
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

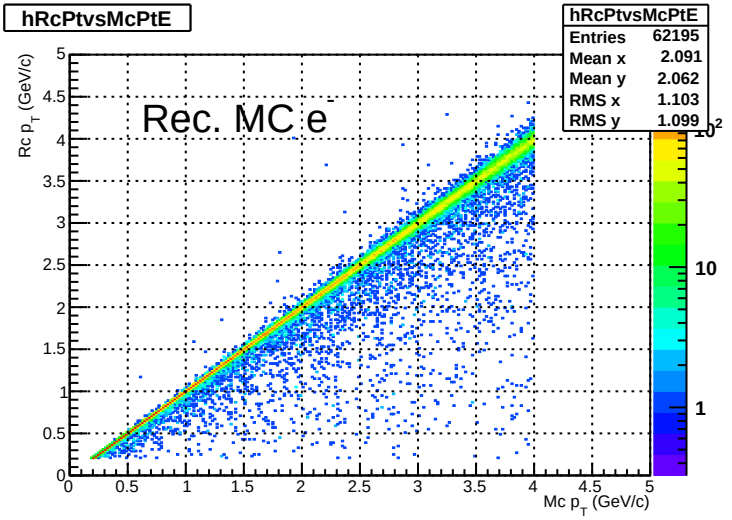
$|\eta| <= 1.0$ ratio >= 0.52 dca <= 3.0 cm

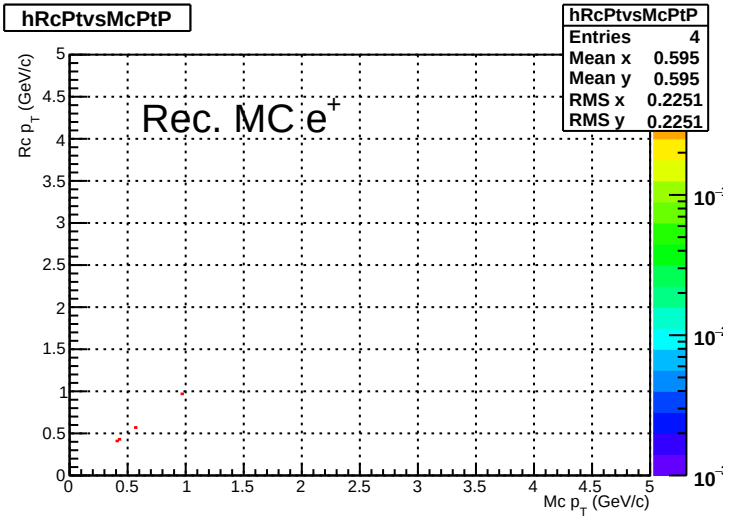
Data:

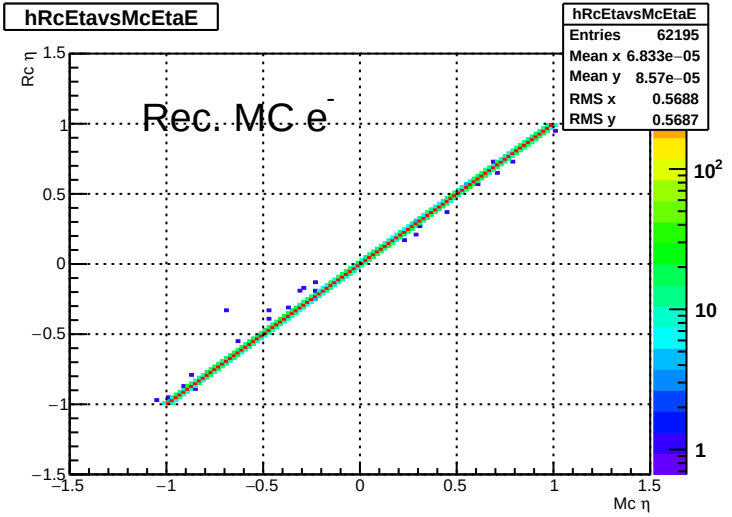
For e: $|n\sigma_e| <= 2.0$ $|1-1/\beta| <= 0.025$

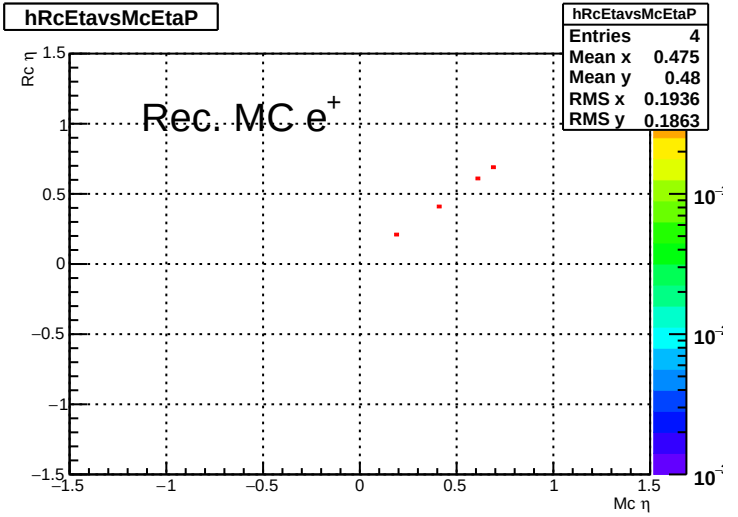
For π: $|n\sigma_\pi| <= 2.0$ $|m_\pi^2 - 0.019| <= 0.003$

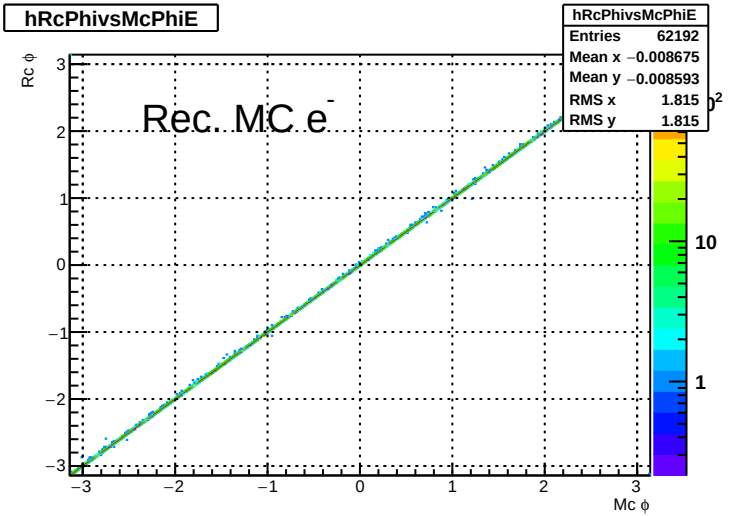
Embedding: parent GeantId == 0 $|\eta| <= 1.0$

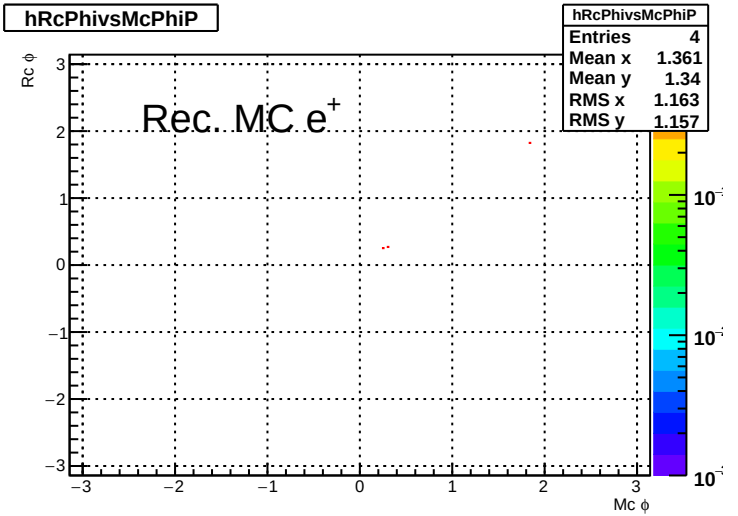

hRcPtvsMcPtE
hRcPtvsMcPtE
Entries 62195
Mean x 2.091
Mean y 2.062
RMS x 1.103
RMS y 1.099
Rec. MC e-
Rc p_T (GeV/c)
Mc p_T (GeV/c)

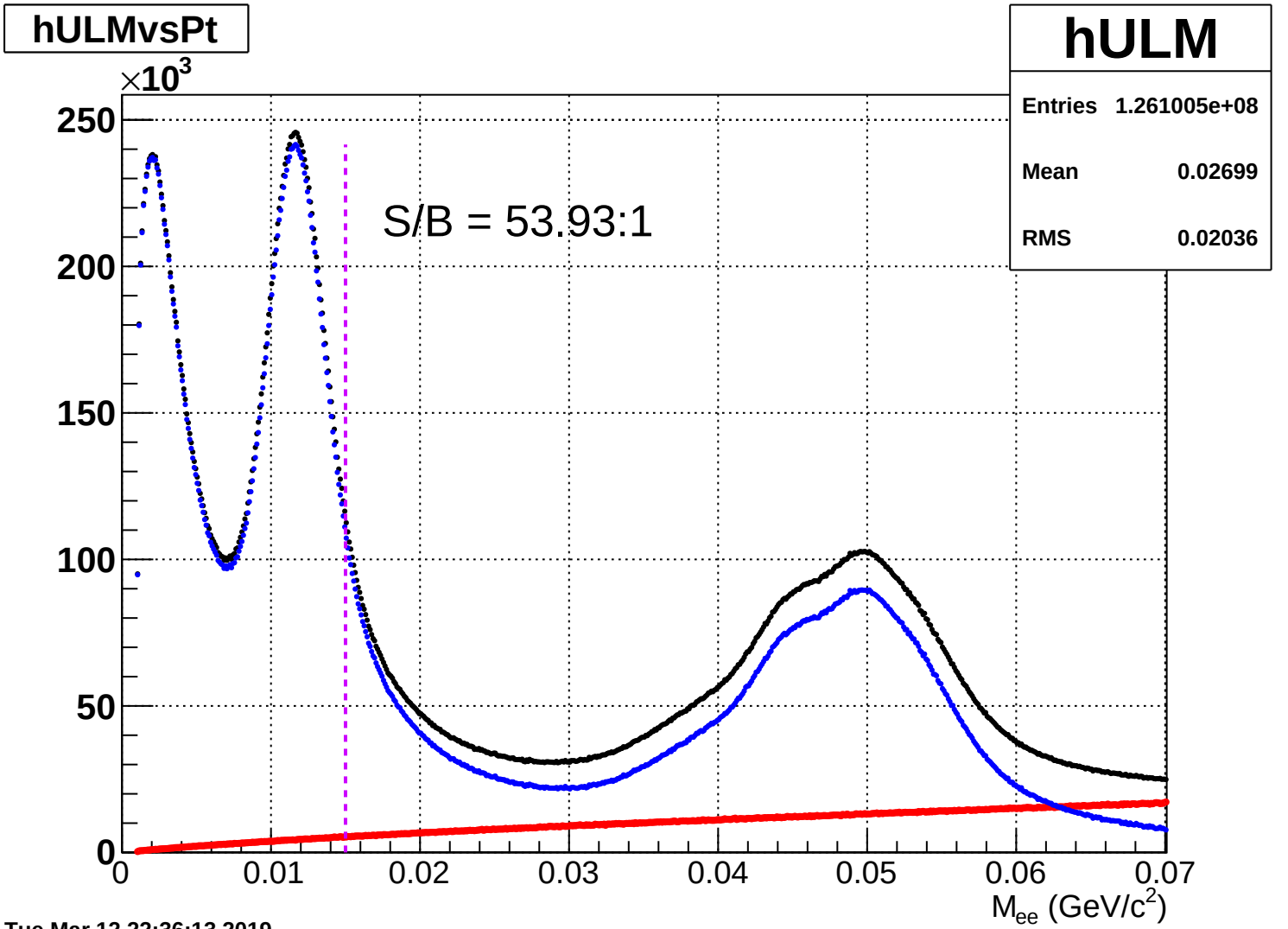

hRcPtvsMcPtP
hRcPtvsMcPtP
Entries 4
Mean x 0.595
Mean y 0.595
RMS x 0.2251
RMS y 0.2251
Rec. MC e+
Rc p_T (GeV/c)
Mc p_T (GeV/c)

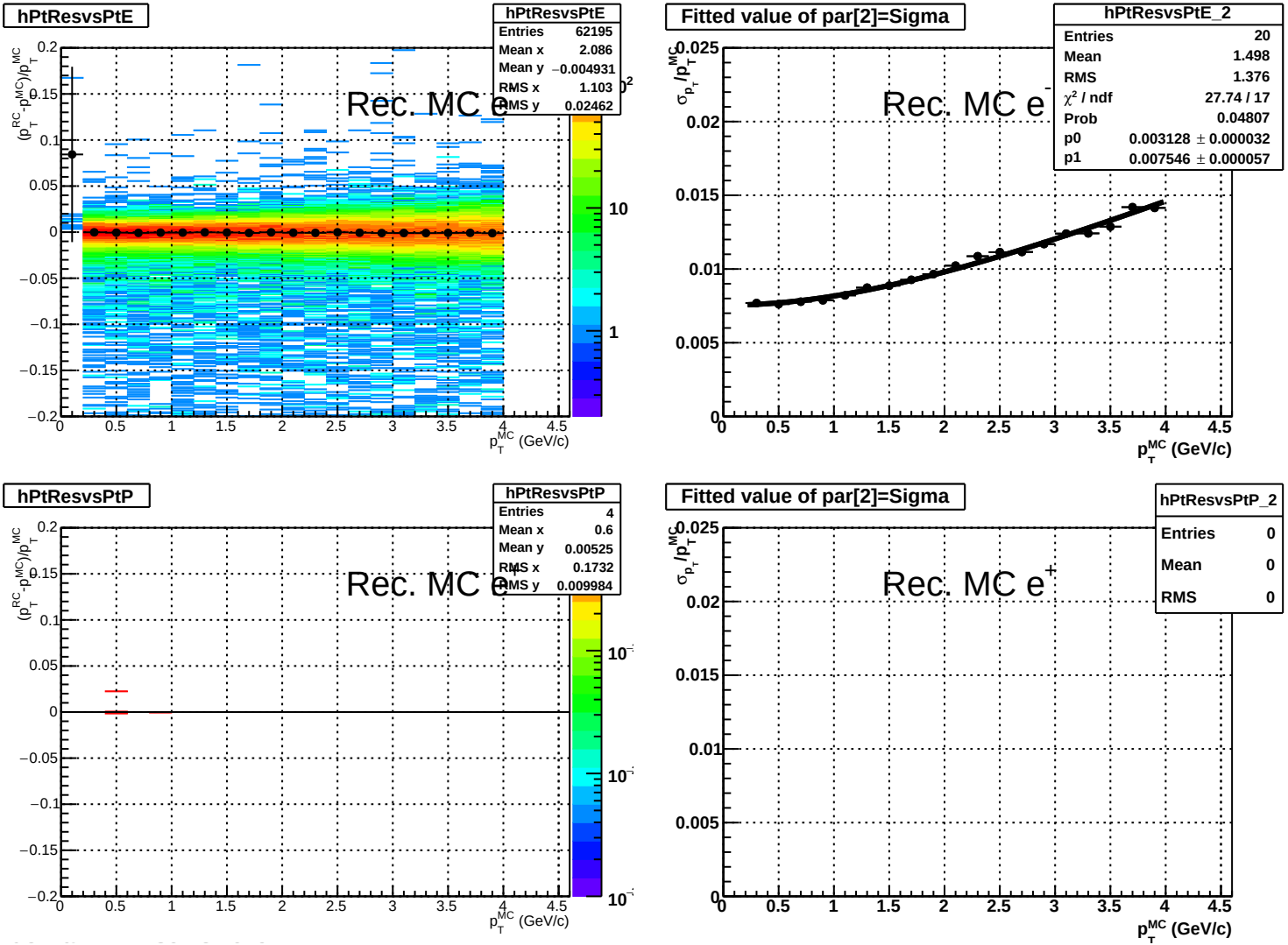

hRcEtavsMcEtaE
hRcEtavsMcEtaE
Entries 62195
Mean x 6.833e−05
Mean y 8.57e−05
RMS x 0.5688
RMS y 0.5687
Rec. MC e-
Rc η
Mc η

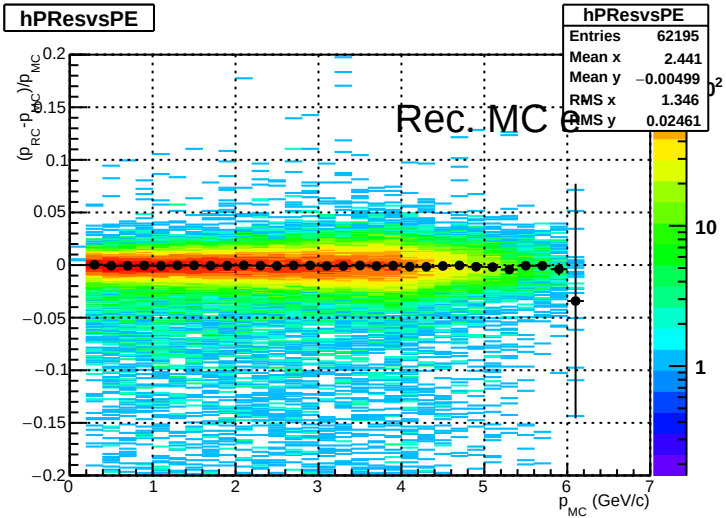

hRcEtavsMcEtaP
hRcEtavsMcEtaP
Entries 4
Mean x 0.475
Mean y 0.48
RMS x 0.1936
RMS y 0.1863
Rec. MC e+
Rc η
Mc η

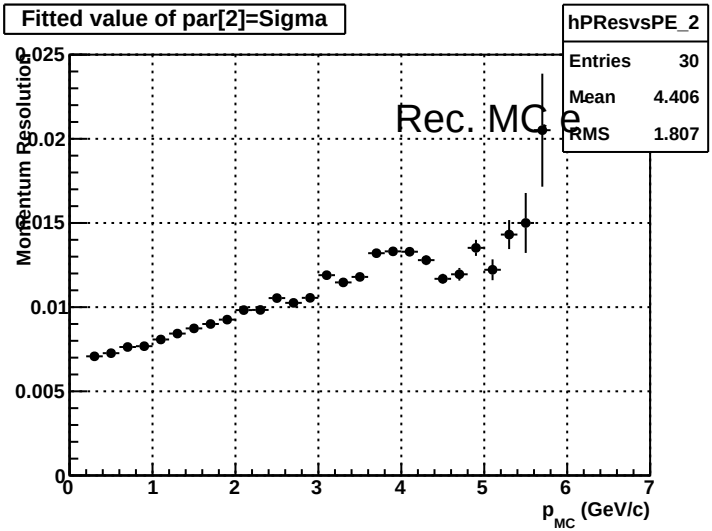

hRcPhivsMcPhiE
hRcPhivsMcPhiE
Entries 62192
Mean x −0.008675
Mean y −0.008593
RMS x 1.815
RMS y 1.815
Rec. MC e-
Rc ϕ
Mc ϕ

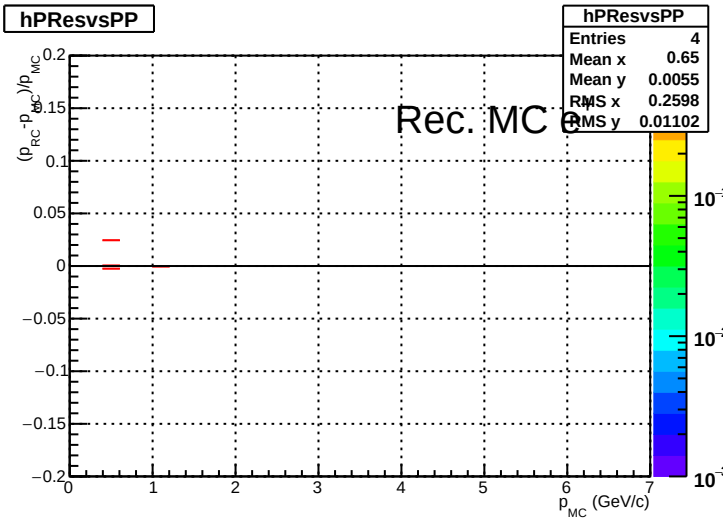

hRcPhivsMcPhiP
hRcPhivsMcPhiP
Entries 4
Mean x 1.361
Mean y 1.34
RMS x 1.163
RMS y 1.157
Rec. MC e+
Rc ϕ
Mc ϕ

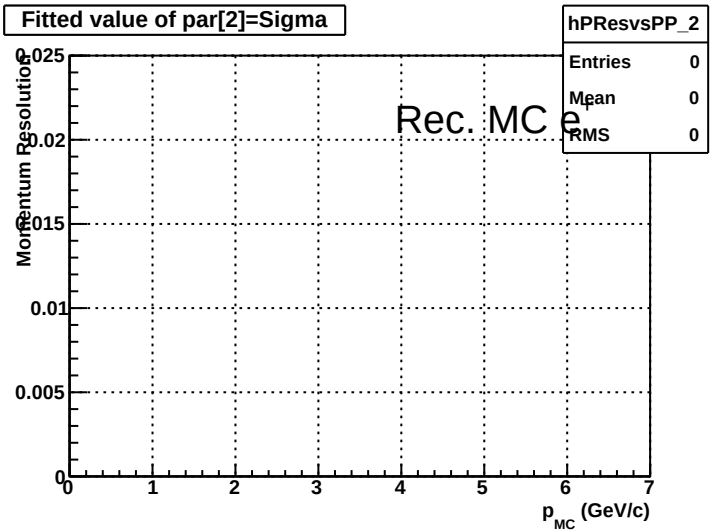

hULMvsPt
hULM
Entries 1.261005e+08
Mean 0.02699
RMS 0.02036
S/B = 53.93:1
×10^3
250
200
150
100
50
0
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
M_ee (GeV/c^2)
Tue Mar 12 22:36:13 2019

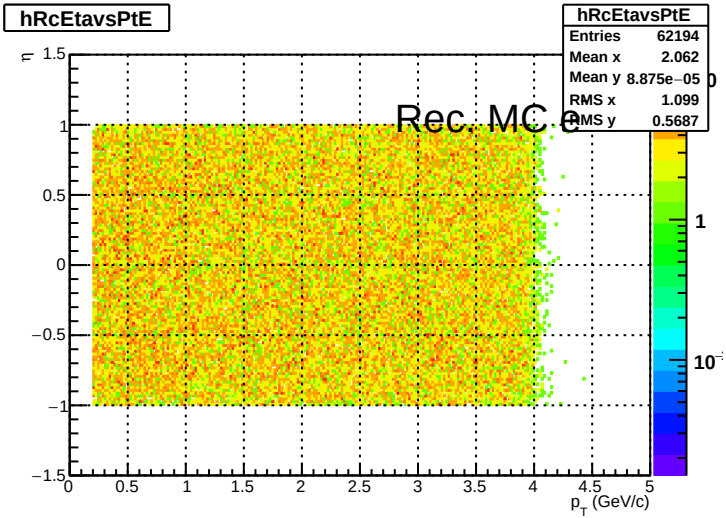

hPtResvsPtE
hPtResvsPtE
Entries 62195
Mean x 2.086
Mean y −0.004931
RMS x 1.103
RMS y 0.02462
Rec. MC e
$(p_T^{RC}-p_T^{MC})/p_T^{MC}$
p_T^{MC} (GeV/c)
Fitted value of par[2]=Sigma
hPtResvsPtE_2
Entries 20
Mean 1.498
RMS 1.376
χ^2 / ndf 27.74 / 17
Prob 0.04807
p0 0.003128 ± 0.000032
p1 0.007546 ± 0.000057
Rec. MC e
σ_{p_T}/p_T^{MC}
p_T^{MC} (GeV/c)
hPtResvsPtP
hPtResvsPtP
Entries 4
Mean x 0.6
Mean y 0.00525
RMS x 0.1732
RMS y 0.009984
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 0
Mean 0
RMS 0
Rec. MC e+
σ_{p_T}/p_T^{MC}
p_T^{MC} (GeV/c)

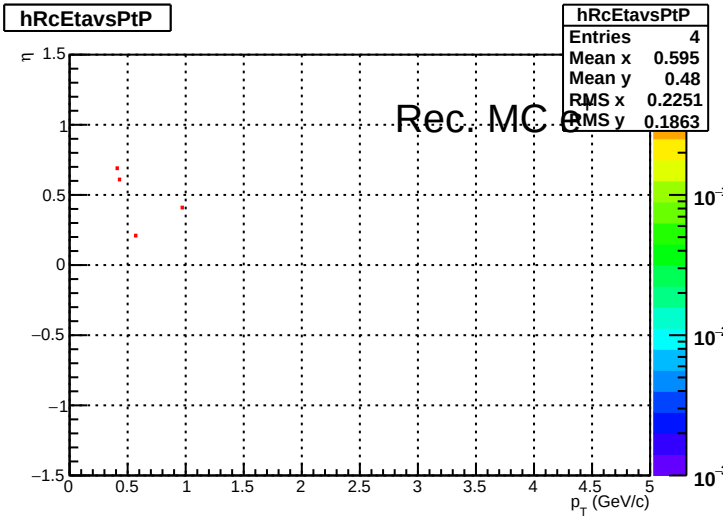

hPResvsPE
hPResvsPE
Entries 62195
Mean x 2.441
Mean y −0.00499
RMS x 1.346
RMS y 0.02461
Rec. MC e
$(p_{RC}-p_{MC})/p_{MC}$
p_{MC} (GeV/c)

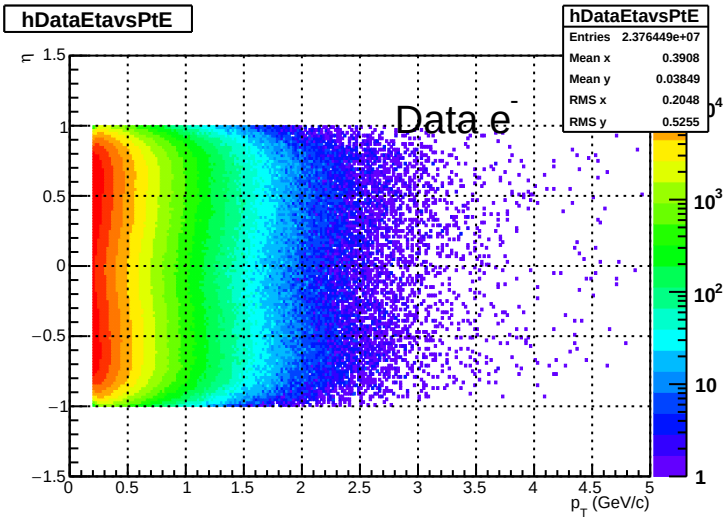

Fitted value of par[2]=Sigma
hPResvsPE_2
Entries 30
Mean 4.406
RMS 1.807
Rec. MC e
Momentum Resolution
p_{MC} (GeV/c)

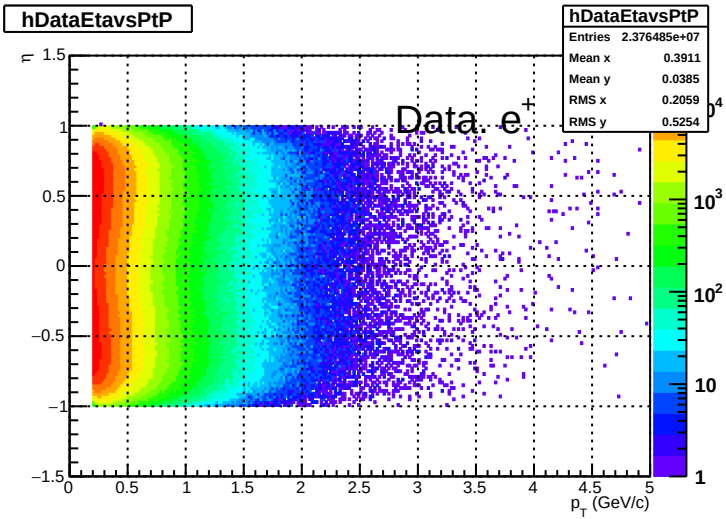

hPResvsPP
hPResvsPP
Entries 4
Mean x 0.65
Mean y 0.0055
RMS x 0.2598
RMS y 0.01102
Rec. MC e
$(p_{RC}-p_{MC})/p_{MC}$
p_{MC} (GeV/c)

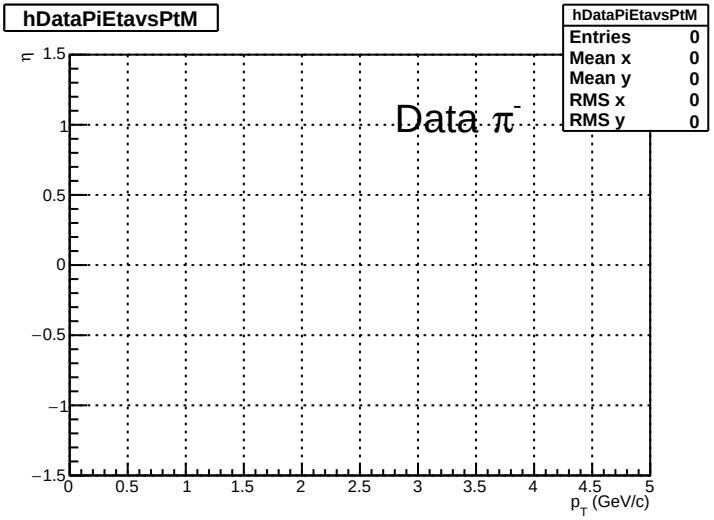

Fitted value of par[2]=Sigma
hPResvsPP_2
Entries 0
Mean 0
RMS 0
Rec. MC e
Momentum Resolution
p_{MC} (GeV/c)

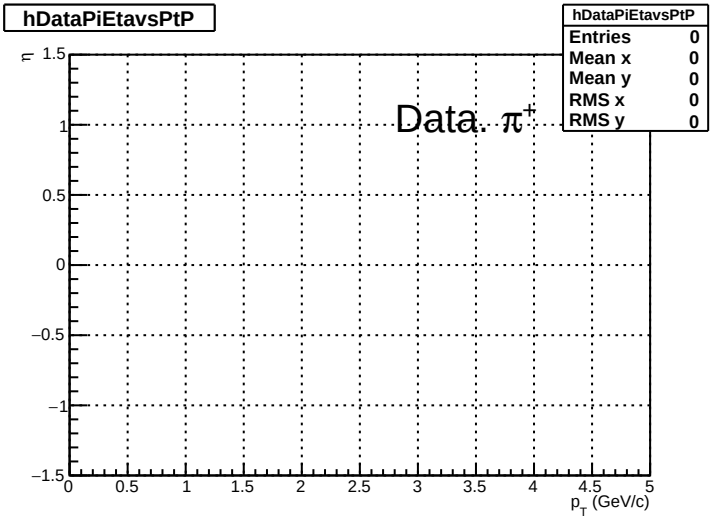

hRcEtavsPtE
hRcEtavsPtE
Entries 62194
Mean x 2.062
Mean y 8.875e−05
RMS x 1.099
RMS y 0.5687
Rec. MC e
η
p_T (GeV/c)

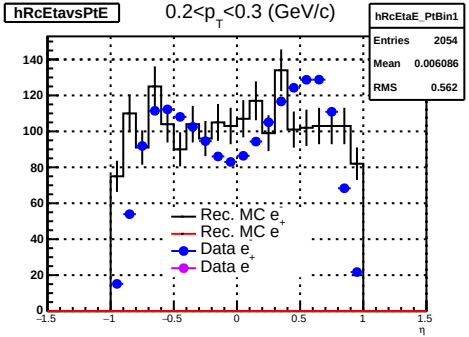

hRcEtavsPtP
hRcEtavsPtP
Entries 4
Mean x 0.595
Mean y 0.48
RMS x 0.2251
RMS y 0.1863
Rec. MC e
η
p_T (GeV/c)

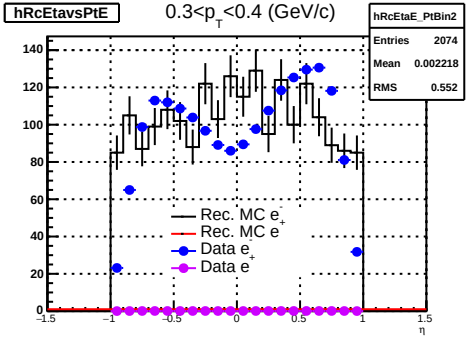

hDataEtavsPtE
hDataEtavsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 0.03849
RMS x 0.2048
RMS y 0.5255
Data e-
η
p_T (GeV/c)

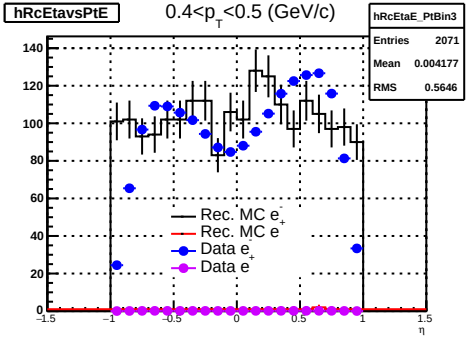

hDataEtavsPtP
hDataEtavsPtP
Entries 2.376485e+07
Mean x 0.3911
Mean y 0.0385
RMS x 0.2059
RMS y 0.5254
Data e+
η
p_T (GeV/c)

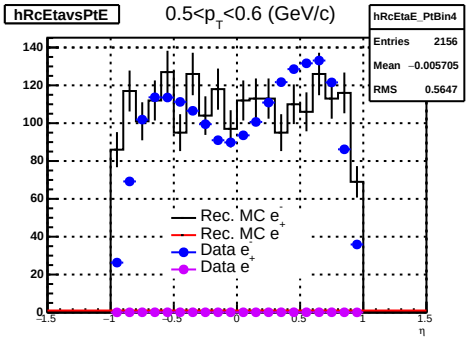

hDataPiEtavsPtM
hDataPiEtavsPtM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
η
1.5
1
0.5
0
−0.5
−1
−1.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
pT (GeV/c)

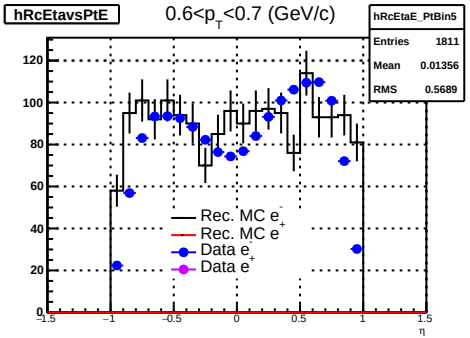

hDataPiEtavsPtP
hDataPiEtavsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π+
η
1.5
1
0.5
0
−0.5
−1
−1.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
pT (GeV/c)

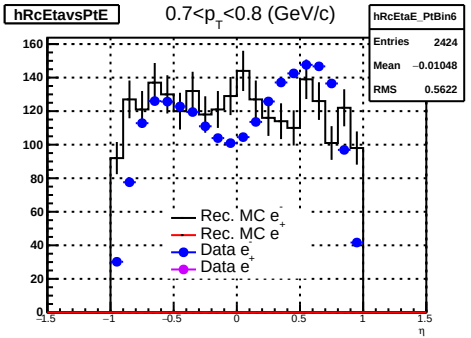

hRcEtavsPtE
0.2<p_T<0.3 (GeV/c)
hRcEtaE_PtBin1
Entries 2054
Mean 0.006086
RMS 0.562
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

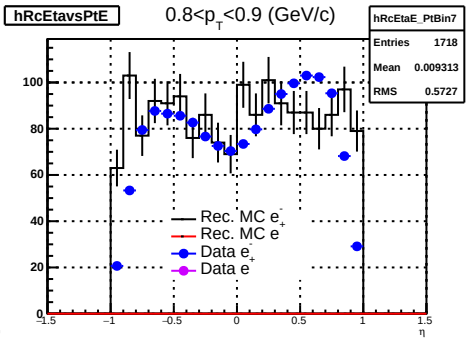

hRcEtavsPtE
0.3<p_T<0.4 (GeV/c)
hRcEtaE_PtBin2
Entries 2074
Mean 0.002218
RMS 0.552
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

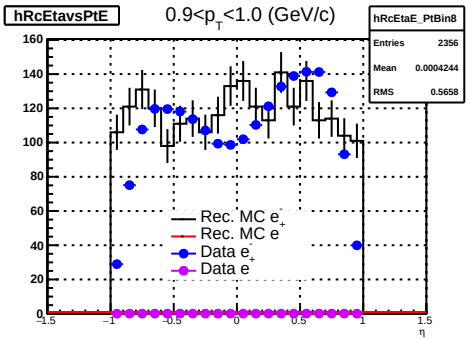

hRcEtavsPtE
0.4<p_T<0.5 (GeV/c)
hRcEtaE_PtBin3
Entries 2071
Mean 0.004177
RMS 0.5646
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

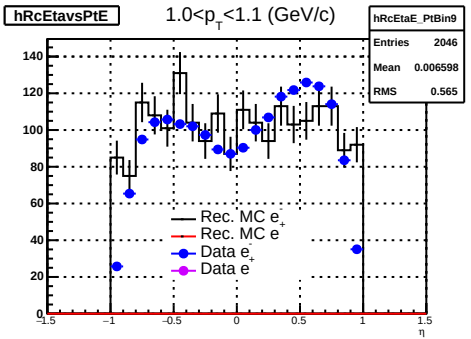

hRcEtavsPtE
0.5<p_T<0.6 (GeV/c)
hRcEtaE_PtBin4
Entries 2156
Mean −0.005705
RMS 0.5647
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

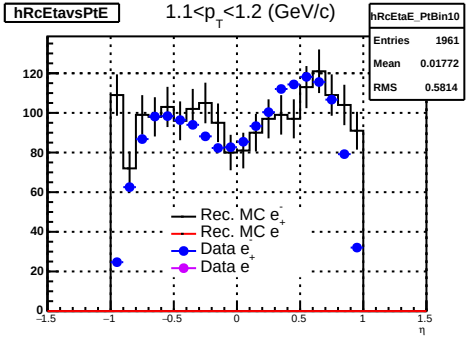

hRcEtavsPtE
0.6<p_T<0.7 (GeV/c)
hRcEtaE_PtBin5
Entries 1811
Mean 0.01356
RMS 0.5689
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

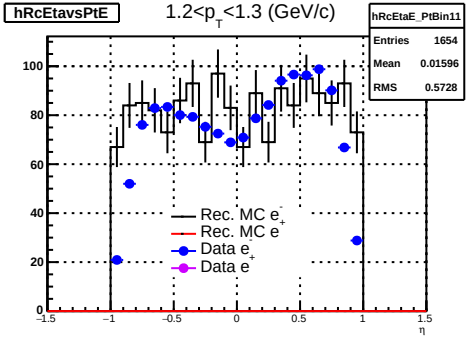

hRcEtavsPtE
0.7<p_T<0.8 (GeV/c)
hRcEtaE_PtBin6
Entries 2424
Mean −0.01048
RMS 0.5622
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

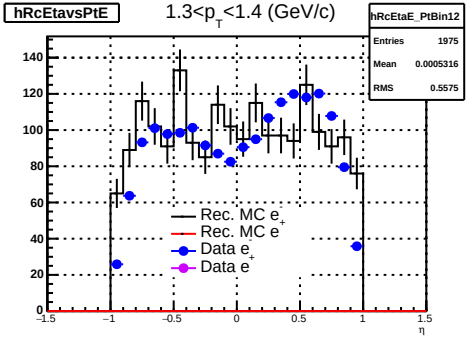

hRcEtavsPtE
0.8<p_T<0.9 (GeV/c)
hRcEtaE_PtBin7
Entries 1718
Mean 0.009313
RMS 0.5727
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

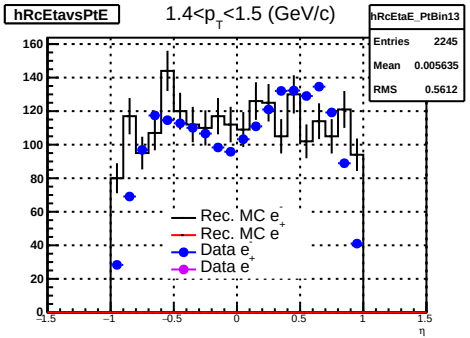

hRcEtavsPtE
0.9<p_T<1.0 (GeV/c)
hRcEtaE_PtBin8
Entries 2356
Mean 0.0004244
RMS 0.5658
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

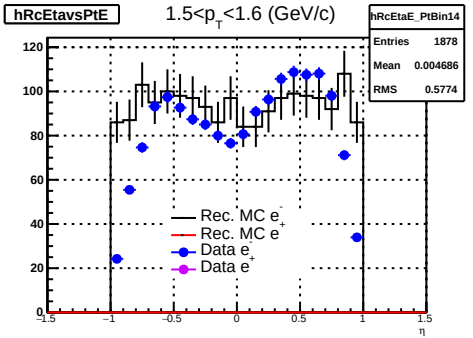

hRcEtavsPtE
1.0<p_T<1.1 (GeV/c)
hRcEtaE_PtBin9
Entries 2046
Mean 0.006598
RMS 0.565
Rec. MC e+
Rec. MC e-
Data e+
Data e-
η

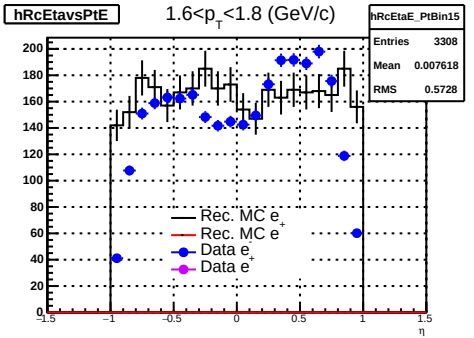

hRcEtavsPtE
1.1<p_T<1.2 (GeV/c)
hRcEtaE_PtBin10
Entries 1961
Mean 0.01772
RMS 0.5814
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

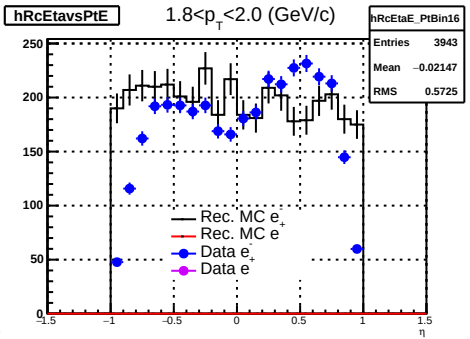

hRcEtavsPtE
1.2<p_T<1.3 (GeV/c)
hRcEtaE_PtBin11
Entries 1654
Mean 0.01596
RMS 0.5728
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

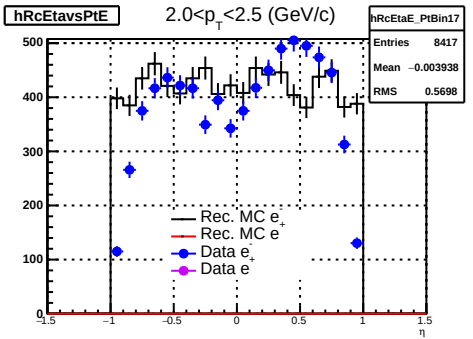

hRcEtavsPtE
1.3<p_T<1.4 (GeV/c)
hRcEtaE_PtBin12
Entries 1975
Mean 0.0005316
RMS 0.5575
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

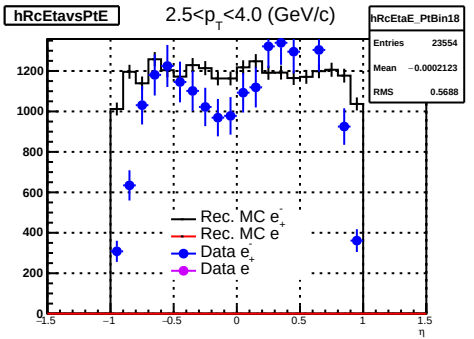

hRcEtavsPtE
1.4<p_T<1.5 (GeV/c)
hRcEtaE_PtBin13
Entries 2245
Mean 0.005635
RMS 0.5612
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

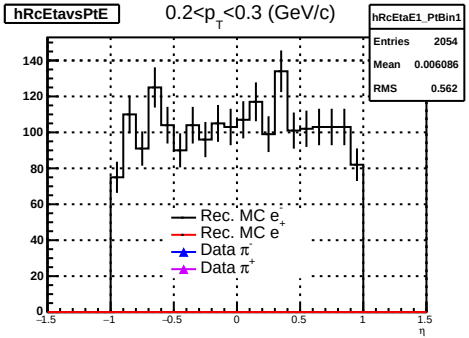

hRcEtavsPtE
1.5<p_T<1.6 (GeV/c)
hRcEtaE_PtBin14
Entries 1878
Mean 0.004686
RMS 0.5774
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

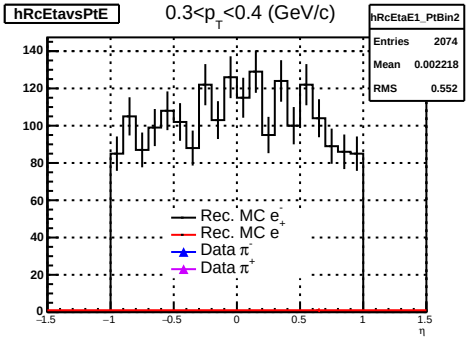

hRcEtavsPtE
1.6<p_T<1.8 (GeV/c)
hRcEtaE_PtBin15
Entries 3308
Mean 0.007618
RMS 0.5728
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

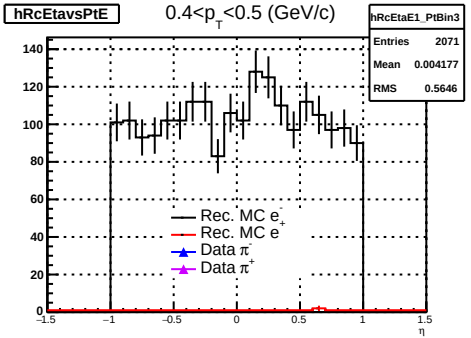

hRcEtavsPtE
1.8<p_T<2.0 (GeV/c)
hRcEtaE_PtBin16
Entries 3943
Mean −0.02147
RMS 0.5725
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

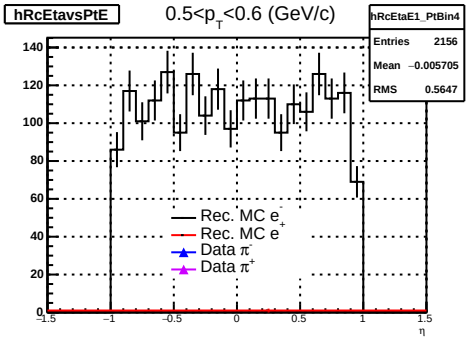

hRcEtavsPtE
2.0<p_T<2.5 (GeV/c)
hRcEtaE_PtBin17
Entries 8417
Mean −0.003938
RMS 0.5698
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η


hRcEtavsPtE
2.5<p_T<4.0 (GeV/c)
hRcEtaE_PtBin18
Entries 23554
Mean −0.0002123
RMS 0.5688
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η


hRcEtavsPtE
0.2<p_T<0.3 (GeV/c)
hRcEtaE1_PtBin1
Entries 2054
Mean 0.006086
RMS 0.562
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
0.3<p_T<0.4 (GeV/c)
hRcEtaE1_PtBin2
Entries 2074
Mean 0.002218
RMS 0.552
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
0.4<p_T<0.5 (GeV/c)
hRcEtaE1_PtBin3
Entries 2071
Mean 0.004177
RMS 0.5646
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η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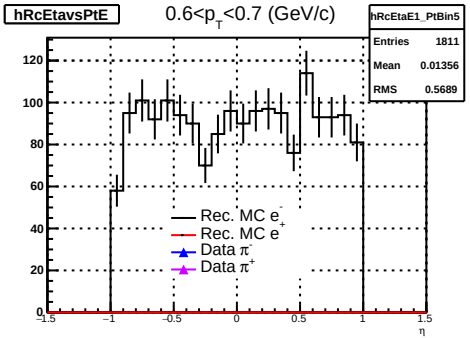
0.5<p_T<0.6 (GeV/c)
hRcEtaE1_PtBin4
Entries 2156
Mean −0.005705
RMS 0.5647
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η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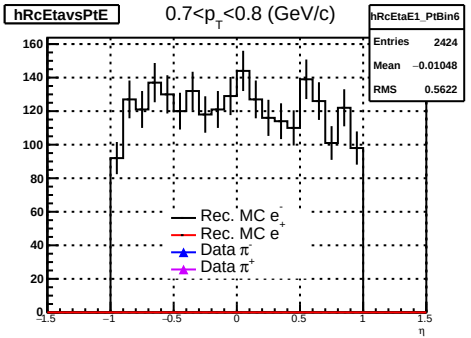
0.6<p_T<0.7 (GeV/c)
hRcEtaE1_PtBin5
Entries 1811
Mean 0.01356
RMS 0.5689
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η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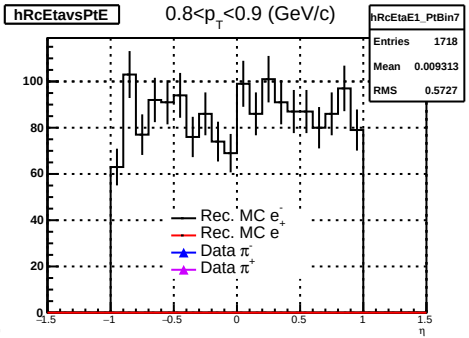
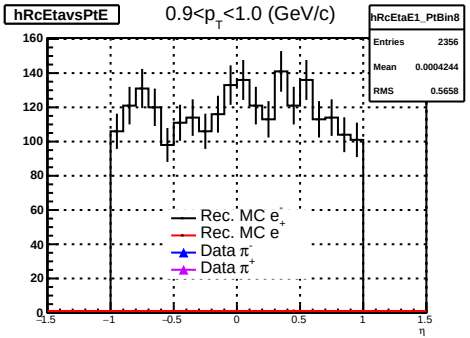
0.7<p_T<0.8 (GeV/c)
hRcEtaE1_PtBin6
Entries 2424
Mean −0.01048
RMS 0.5622
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
0.8<p_T<0.9 (GeV/c)
hRcEtaE1_PtBin7
Entries 1718
Mean 0.009313
RMS 0.5727
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η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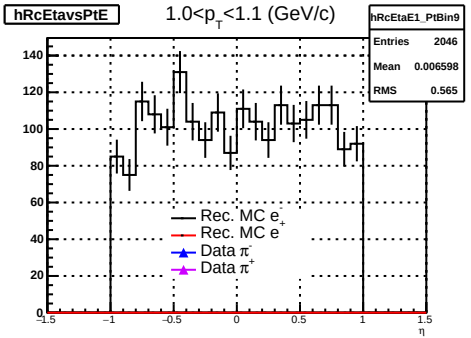
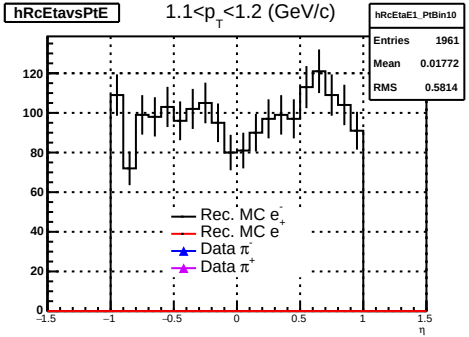
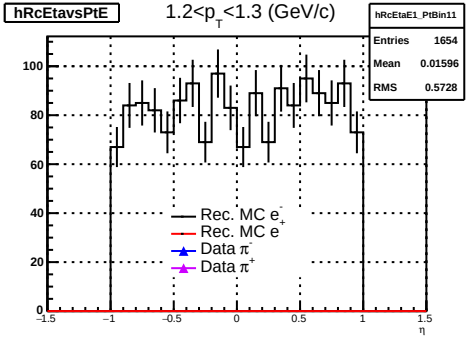
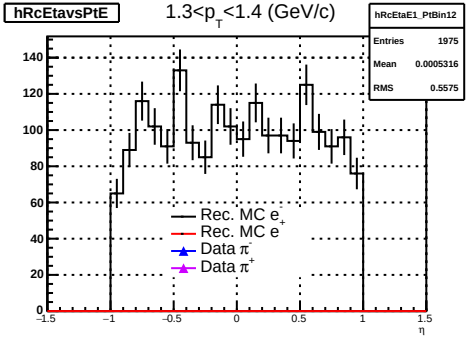
0.9<p_T<1.0 (GeV/c)
hRcEtaE1_PtBin8
Entries 2356
Mean 0.0004244
RMS 0.5658
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
1.0<p_T<1.1 (GeV/c)
hRcEtaE1_PtBin9
Entries 2046
Mean 0.006598
RMS 0.565
Rec. MC e+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
1.1<p_T<1.2 (GeV/c)
hRcEtaE1_PtBin10
Entries 1961
Mean 0.01772
RMS 0.5814
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
1.2<p_T<1.3 (GeV/c)
hRcEtaE1_PtBin11
Entries 1654
Mean 0.01596
RMS 0.5728
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η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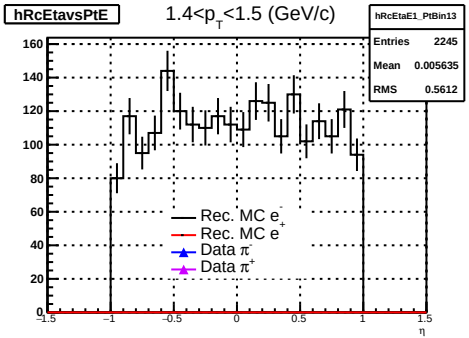
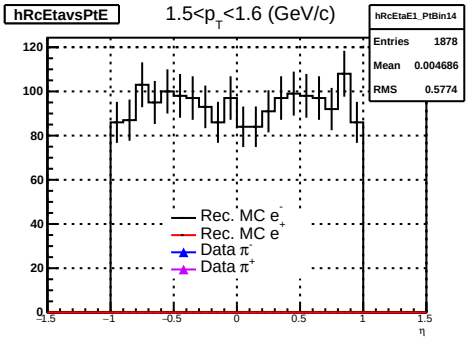
1.3<p_T<1.4 (GeV/c)
hRcEtaE1_PtBin12
Entries 1975
Mean 0.0005316
RMS 0.5575
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
1.4<p_T<1.5 (GeV/c)
hRcEtaE1_PtBin13
Entries 2245
Mean 0.005635
RMS 0.5612
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η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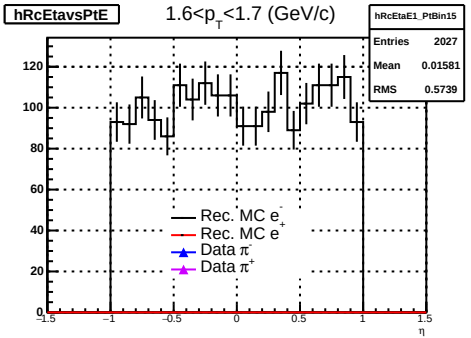
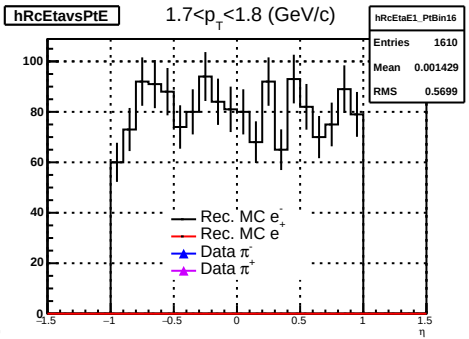
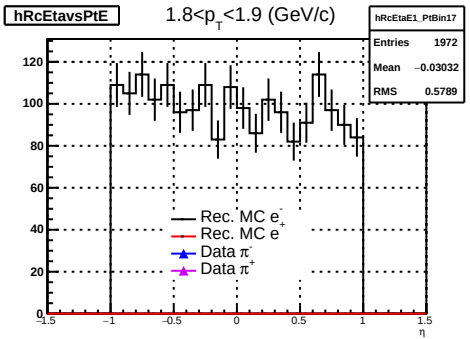
1.5<p_T<1.6 (GeV/c)
hRcEtaE1_PtBin14
Entries 1878
Mean 0.004686
RMS 0.5774
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
1.6<p_T<1.7 (GeV/c)
hRcEtaE1_PtBin15
Entries 2027
Mean 0.01581
RMS 0.5739
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
1.7<p_T<1.8 (GeV/c)
hRcEtaE1_PtBin16
Entries 1610
Mean 0.001429
RMS 0.5699
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η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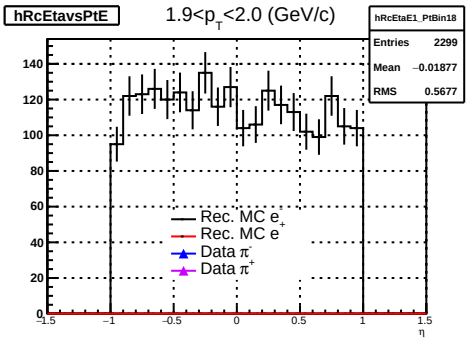
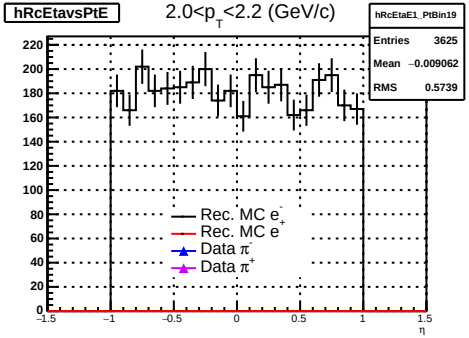
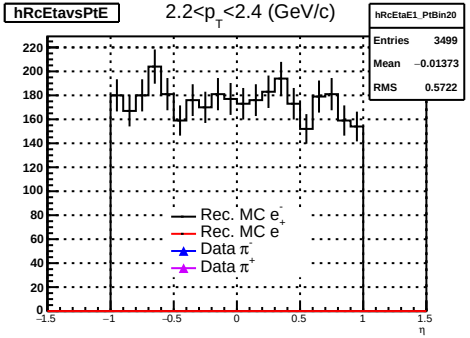
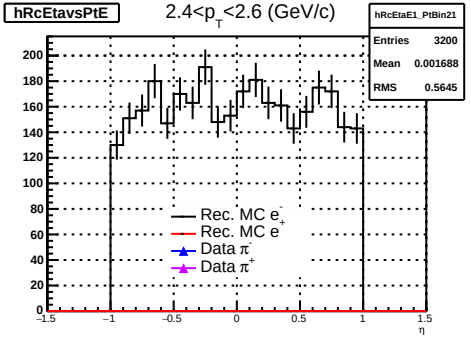
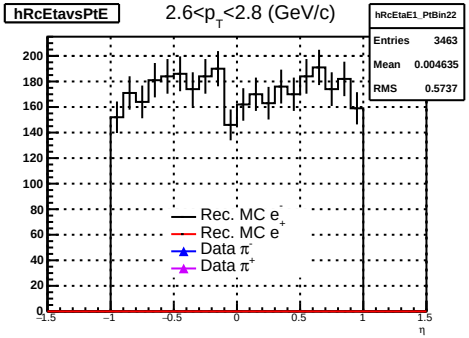
1.8<p_T<1.9 (GeV/c)
hRcEtaE1_PtBin17
Entries 1972
Mean −0.03032
RMS 0.5789
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

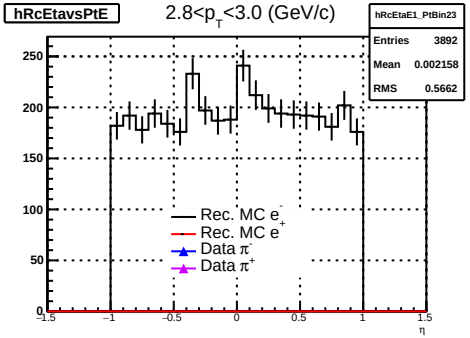

hRcEtavsPtE
1.9<p_T<2.0 (GeV/c)
hRcEtaE1_PtBin18
Entries 2299
Mean −0.01877
RMS 0.5677
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

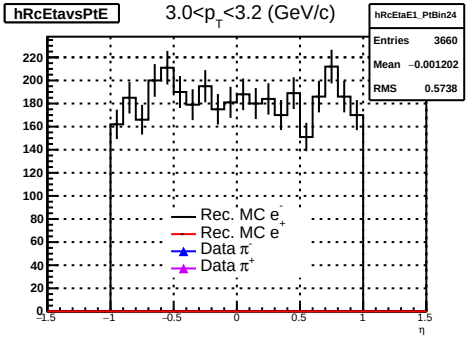

hRcEtavsPtE
2.0<p_T<2.2 (GeV/c)
hRcEtaE1_PtBin19
Entries 3625
Mean −0.009062
RMS 0.5739
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

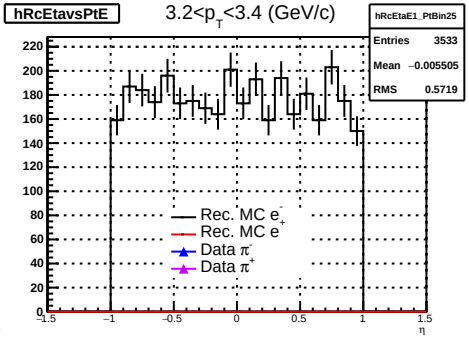

hRcEtavsPtE
2.2<p_T<2.4 (GeV/c)
hRcEtaE1_PtBin20
Entries 3499
Mean −0.01373
RMS 0.5722
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

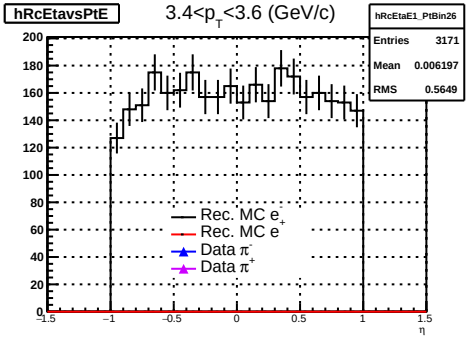

hRcEtavsPtE
2.4<p_T<2.6 (GeV/c)
hRcEtaE1_PtBin21
Entries 3200
Mean 0.001688
RMS 0.5645
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

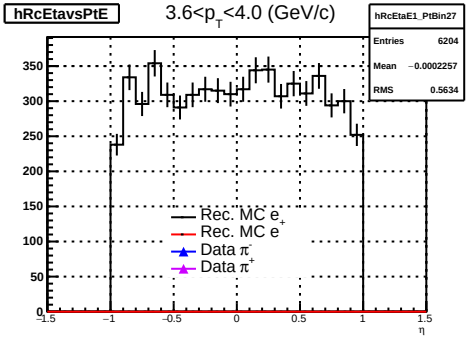

hRcEtavsPtE
2.6<p_T<2.8 (GeV/c)
hRcEtaE1_PtBin22
Entries 3463
Mean 0.004635
RMS 0.5737
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

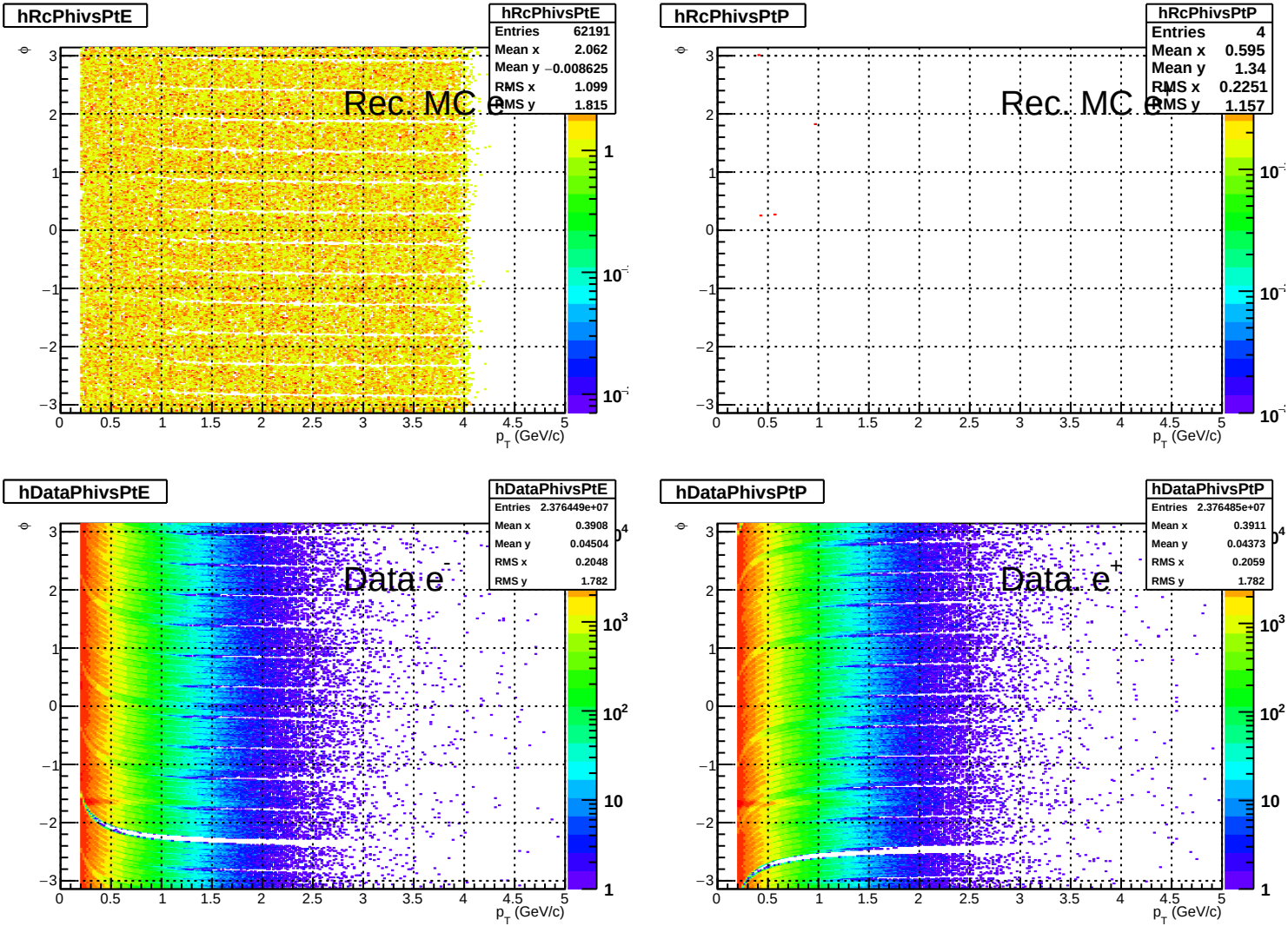

hRcEtavsPtE
2.8<p_T<3.0 (GeV/c)
hRcEtaE1_PtBin23
Entries 3892
Mean 0.002158
RMS 0.5662
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

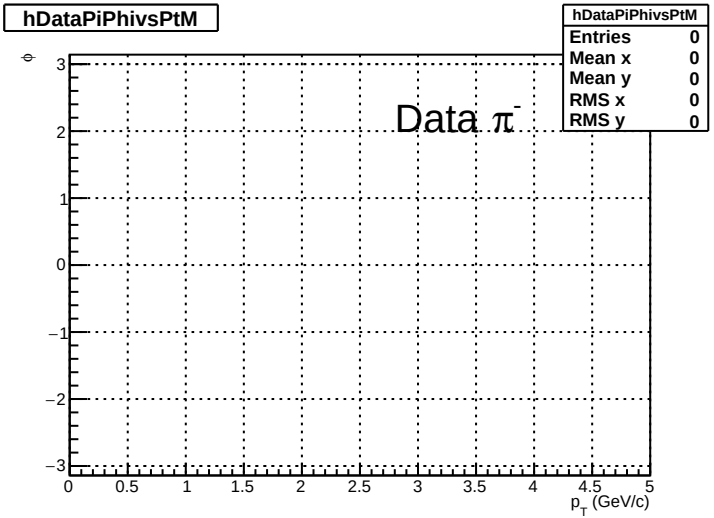

hRcEtavsPtE
3.0<p_T<3.2 (GeV/c)
hRcEtaE1_PtBin24
Entries 3660
Mean −0.001202
RMS 0.5738
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η

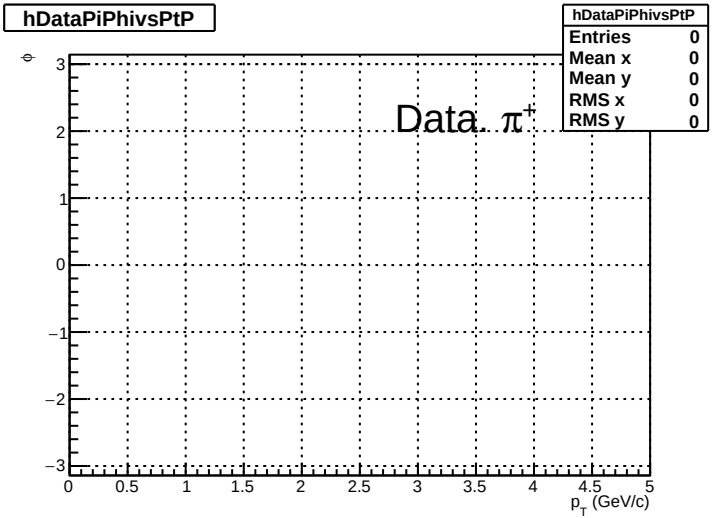

hRcEtavsPtE
3.2<p_T<3.4 (GeV/c)
hRcEtaE1_PtBin25
Entries 3533
Mean −0.005505
RMS 0.5719
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
3.4<p_T<3.6 (GeV/c)
hRcEtaE1_PtBin26
Entries 3171
Mean 0.006197
RMS 0.5649
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η


hRcEtavsPtE
3.6<p_T<4.0 (GeV/c)
hRcEtaE1_PtBin27
Entries 6204
Mean −0.0002257
RMS 0.5634
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
η


hRcPhivsPtE
hRcPhivsPtE
Entries 62191
Mean x 2.062
Mean y −0.008625
RMS x 1.099
RMS y 1.815
Rec. MC e−
hRcPhivsPtP
hRcPhivsPtP
Entries 4
Mean x 0.595
Mean y 1.34
RMS x 0.2251
RMS y 1.157
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
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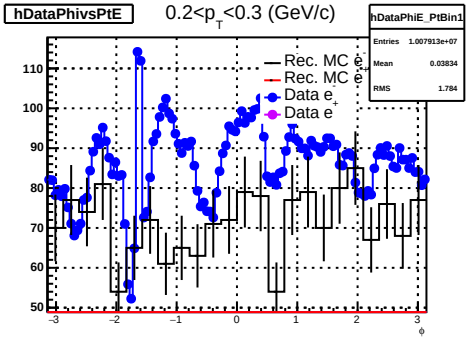
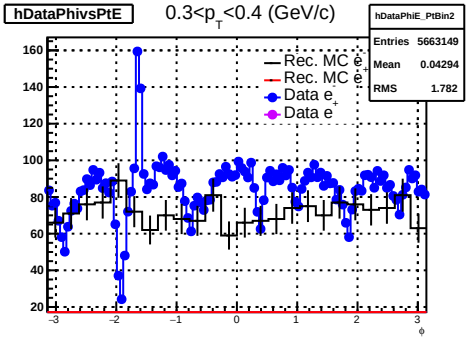
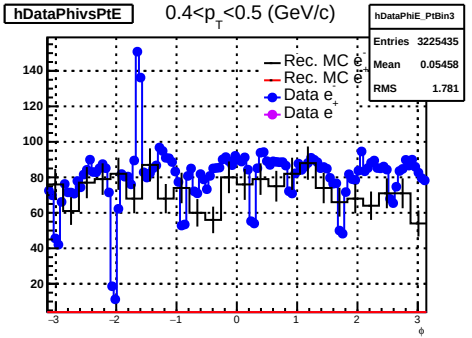
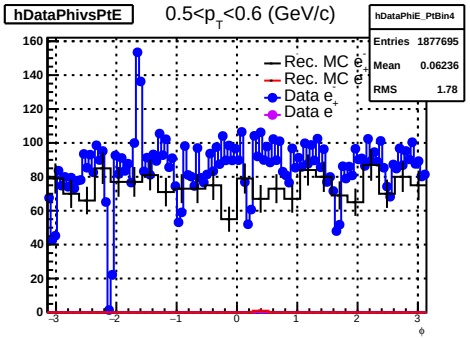
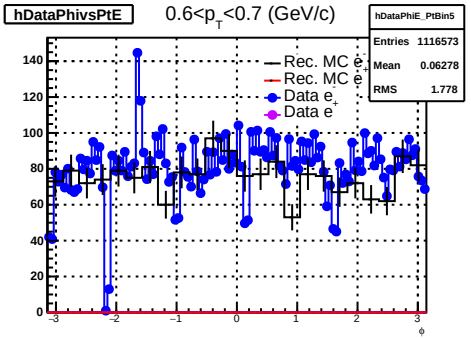
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π+
ϕ
p_T (GeV/c)

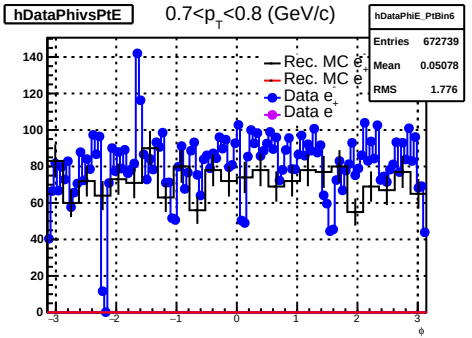

hDataPhivsPtE
0.2<p_T<0.3 (GeV/c)
hDataPhiE_PtBin1
Entries 1.007913e+07
Mean 0.03834
RMS 1.784
Rec. MC e-
Rec. MC e+
Data e-
Data e+
ϕ

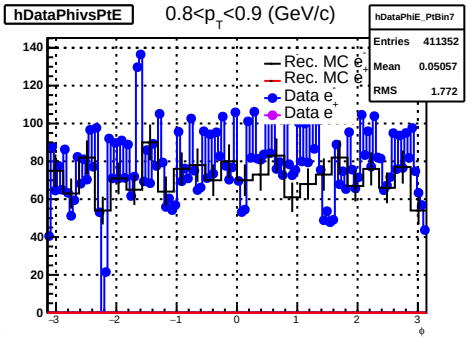

hDataPhivsPtE
0.3<p_T<0.4 (GeV/c)
hDataPhiE_PtBin2
Entries 5663149
Mean 0.04294
RMS 1.782
Rec. MC e-
Rec. MC e+
Data e-
Data e+
ϕ

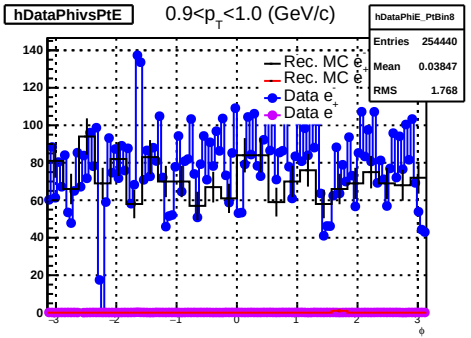

hDataPhivsPtE
0.4<p_T<0.5 (GeV/c)
hDataPhiE_PtBin3
Entries 3225435
Mean 0.05458
RMS 1.781
Rec. MC e-
Rec. MC e+
Data e-
Data e+
ϕ

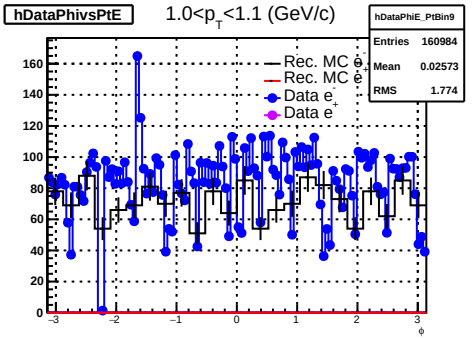

hDataPhivsPtE
0.5<p_T<0.6 (GeV/c)
hDataPhiE_PtBin4
Entries 1877695
Mean 0.06236
RMS 1.78
Rec. MC e-
Rec. MC e+
Data e-
Data e+
ϕ

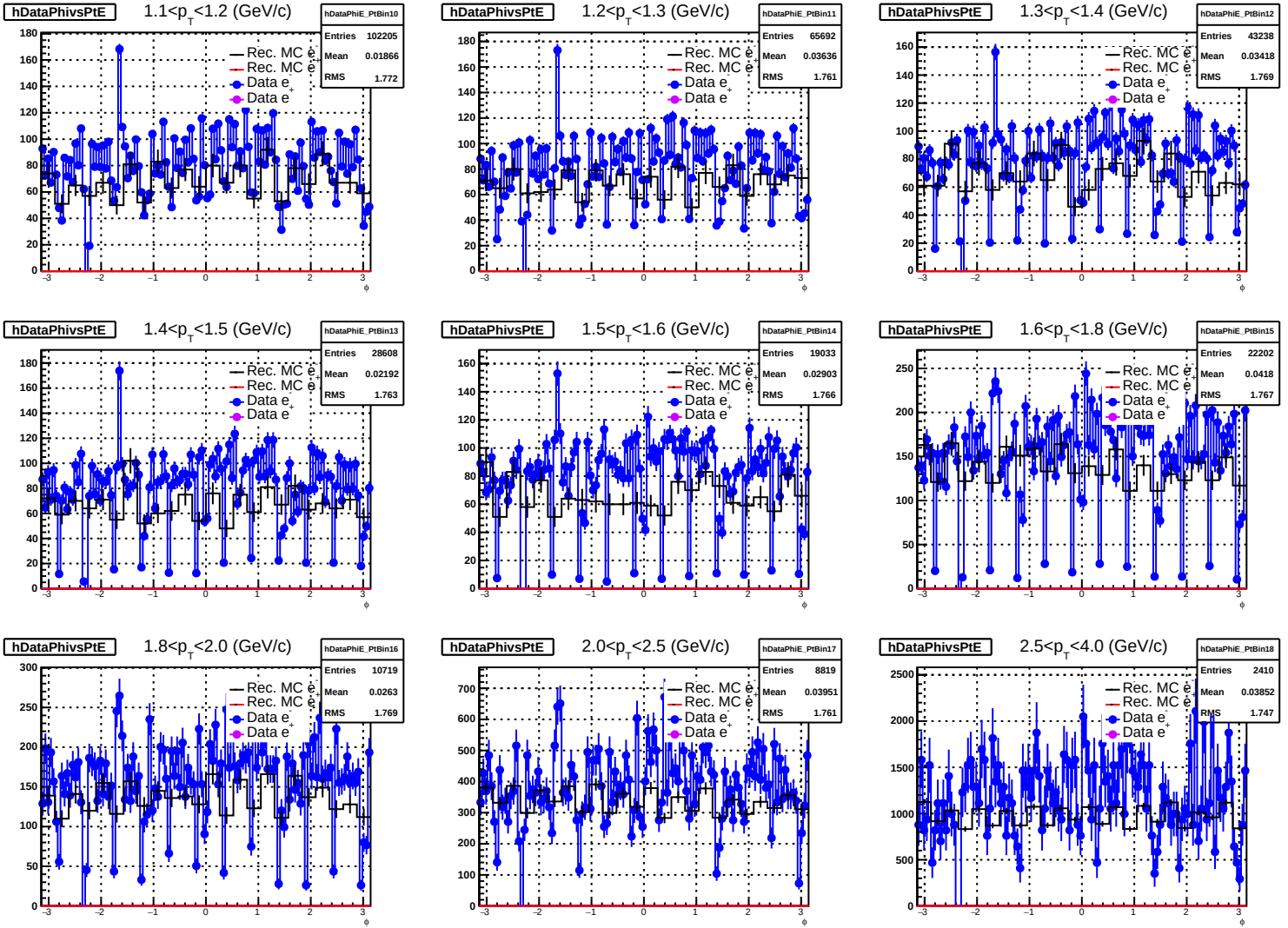

hDataPhivsPtE
0.6<p_T<0.7 (GeV/c)
hDataPhiE_PtBin5
Entries 1116573
Mean 0.06278
RMS 1.778
Rec. MC e-
Rec. MC e+
Data e-
Data e+
ϕ


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
Rec. MC e-
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


hDataPhivsPtE
1.1<p_T<1.2 (GeV/c)
hDataPhiE_PtBin10
Entries 102205
Mean 0.01866
RMS 1.772
1.2<p_T<1.3 (GeV/c)
hDataPhiE_PtBin11
Entries 65692
Mean 0.03636
RMS 1.761
1.3<p_T<1.4 (GeV/c)
hDataPhiE_PtBin12
Entries 43238
Mean 0.03418
RMS 1.769
1.4<p_T<1.5 (GeV/c)
hDataPhiE_PtBin13
Entries 28608
Mean 0.02192
RMS 1.763
1.5<p_T<1.6 (GeV/c)
hDataPhiE_PtBin14
Entries 19033
Mean 0.02903
RMS 1.766
1.6<p_T<1.8 (GeV/c)
hDataPhiE_PtBin15
Entries 22202
Mean 0.0418
RMS 1.767
1.8<p_T<2.0 (GeV/c)
hDataPhiE_PtBin16
Entries 10719
Mean 0.0263
RMS 1.769
2.0<p_T<2.5 (GeV/c)
hDataPhiE_PtBin17
Entries 8819
Mean 0.03951
RMS 1.761
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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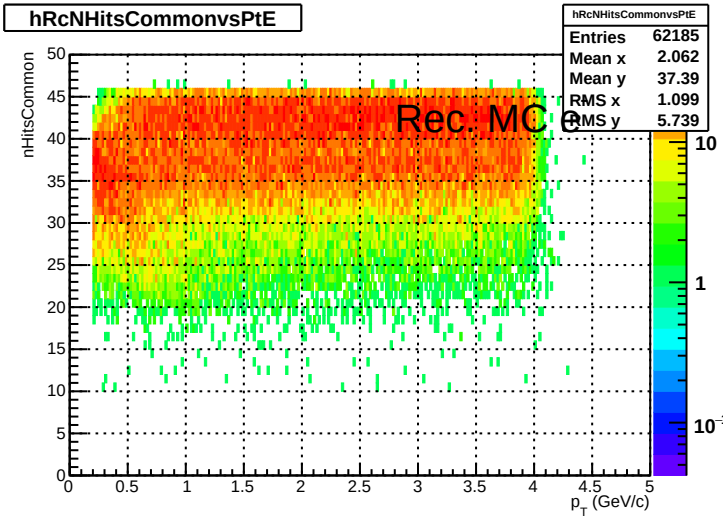
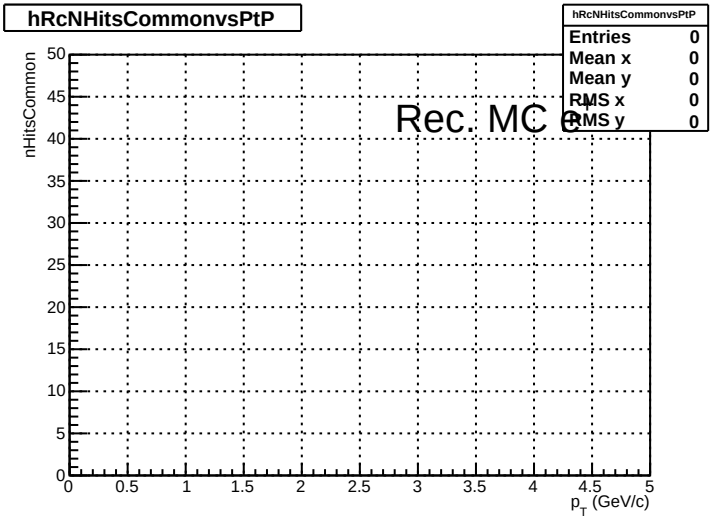

hRcNHitsCommonvsPtE
hRcNHitsCommonvsPtE
Entries 62185
Mean x 2.062
Mean y 37.39
RMS x 1.099
RMS y 5.739
Rec. MC e
nHitsCommon
p_T (GeV/c)


hRcNHitsCommonvsPtP
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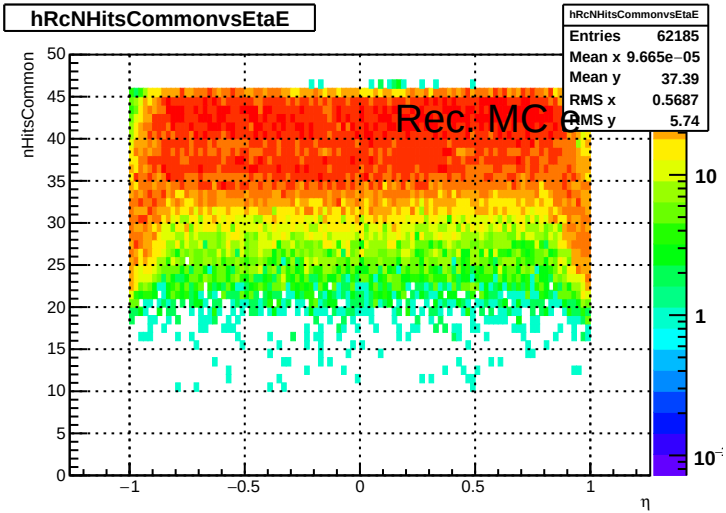
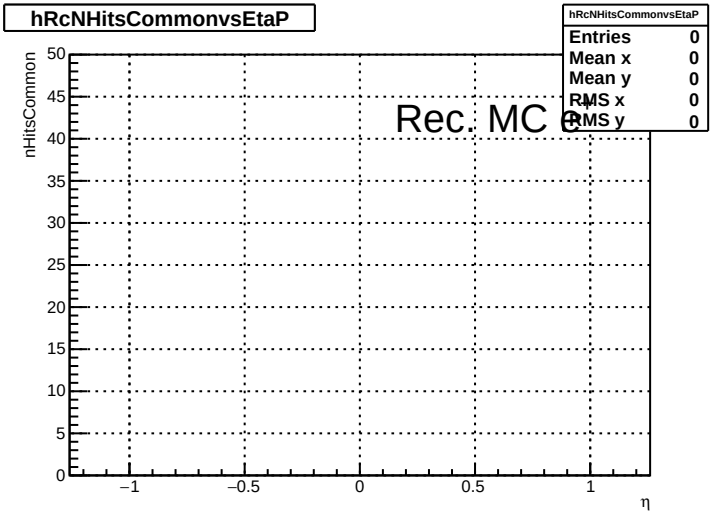
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Rec. MC e
nHitsCommon
p_T (GeV/c)


hRcNHitsCommonvsEtaE
hRcNHitsCommonvsEtaE
Entries 62185
Mean x 9.665e−05
Mean y 37.39
RMS x 0.5687
RMS y 5.74
Rec. MC e
nHitsCommon
η


hRcNHitsCommonvsEtaP
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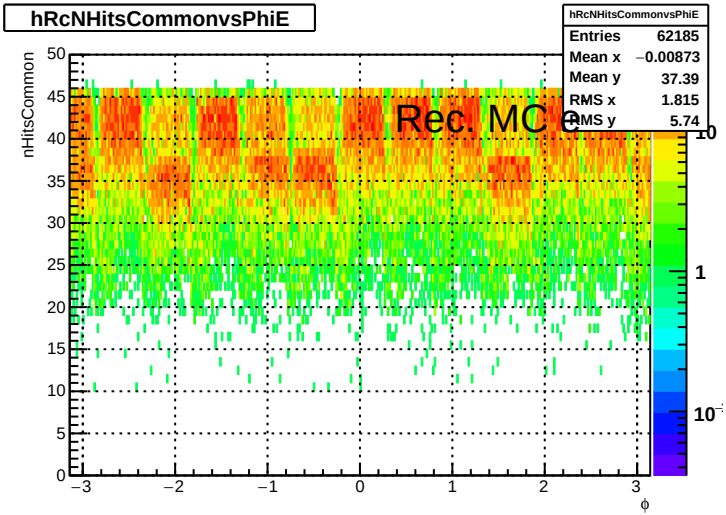
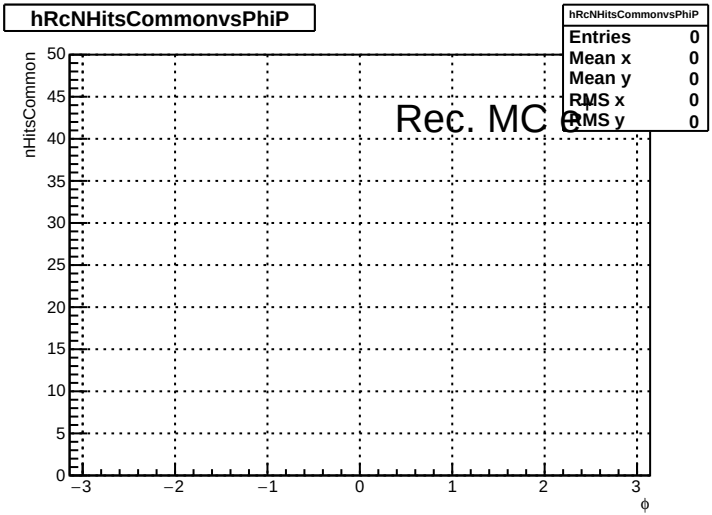
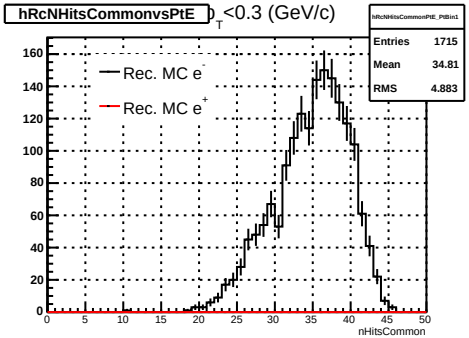
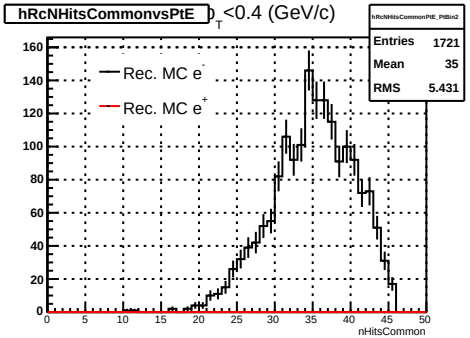
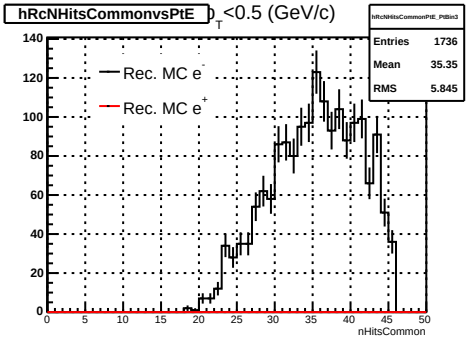
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Rec. MC e
nHitsCommon
η

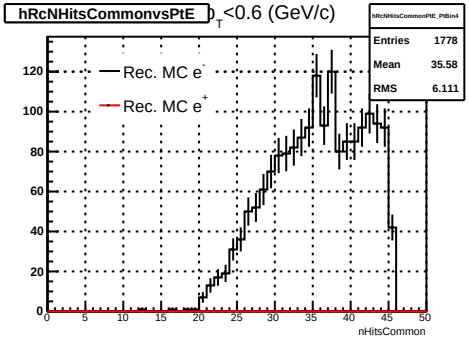

hRcNHitsCommonvsPhiE
hRcNHitsCommonvsPhiE
Entries 62185
Mean x −0.00873
Mean y 37.39
RMS x 1.815
RMS y 5.74
Rec. MC e
nHitsCommon
ϕ

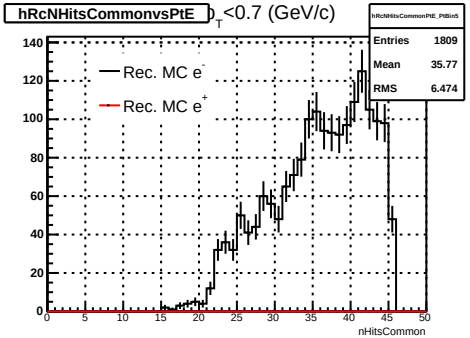

hRcNHitsCommonvsPhiP
hRcNHitsCommonvsPhiP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Rec. MC e
nHitsCommon
ϕ

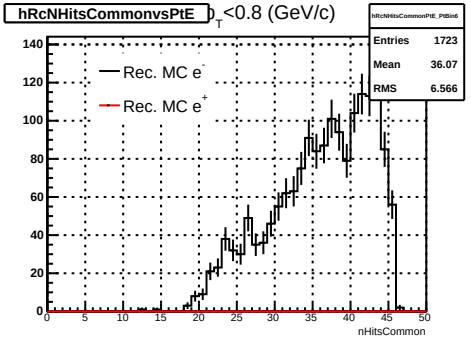

hRcNHitsCommonvsPtE
p_T<0.3 (GeV/c)
hRcNHitsCommonPtE_PtBin1
Entries 1715
Mean 34.81
RMS 4.883
Rec. MC e-
Rec. MC e+
nHitsCommon

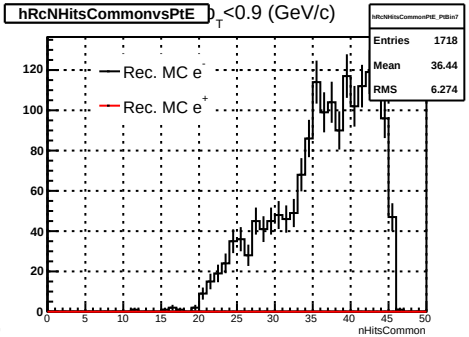

hRcNHitsCommonvsPtE
p_T<0.4 (GeV/c)
hRcNHitsCommonPtE_PtBin2
Entries 1721
Mean 35
RMS 5.431
Rec. MC e-
Rec. MC e+
nHitsCommon

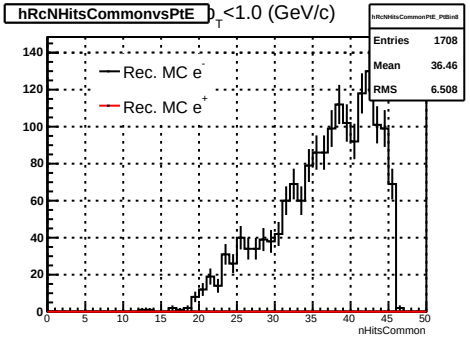

hRcNHitsCommonvsPtE
p_T<0.5 (GeV/c)
hRcNHitsCommonPtE_PtBin3
Entries 1736
Mean 35.35
RMS 5.845
Rec. MC e-
Rec. MC e+
nHitsCommon

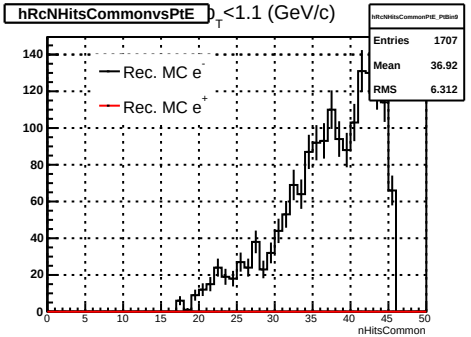

hRcNHitsCommonvsPtE
p_T<0.6 (GeV/c)
hRcNHitsCommonPtE_PtBin4
Entries 1778
Mean 35.58
RMS 6.111
Rec. MC e-
Rec. MC e+
nHitsCommon

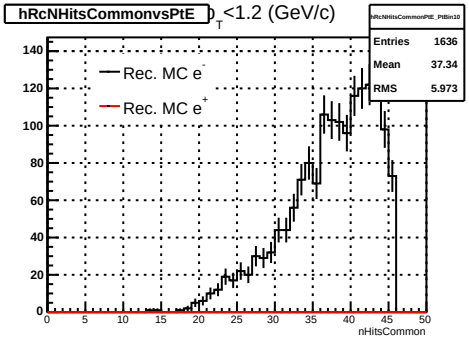

hRcNHitsCommonvsPtE
p_T<0.7 (GeV/c)
hRcNHitsCommonPtE_PtBin5
Entries 1809
Mean 35.77
RMS 6.474
Rec. MC e-
Rec. MC e+
nHitsCommon

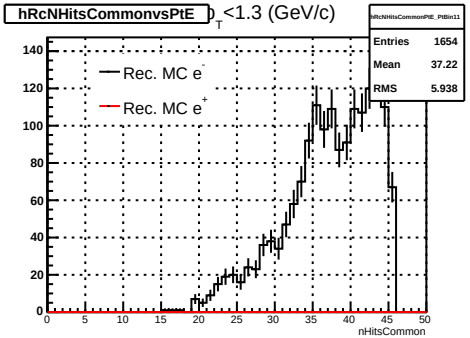

hRcNHitsCommonvsPtE
p_T<0.8 (GeV/c)
hRcNHitsCommonPtE_PtBin6
Entries 1723
Mean 36.07
RMS 6.566
Rec. MC e-
Rec. MC e+
nHitsCommon

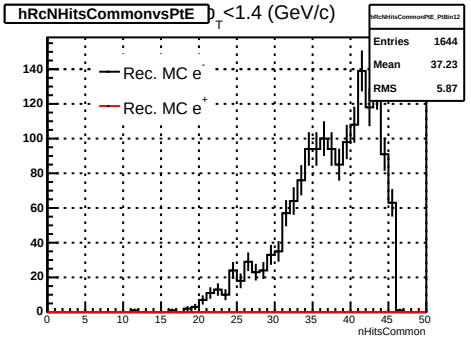

hRcNHitsCommonvsPtE
p_T<0.9 (GeV/c)
hRcNHitsCommonPtE_PtBin7
Entries 1718
Mean 36.44
RMS 6.274
Rec. MC e-
Rec. MC e+
nHitsCommon

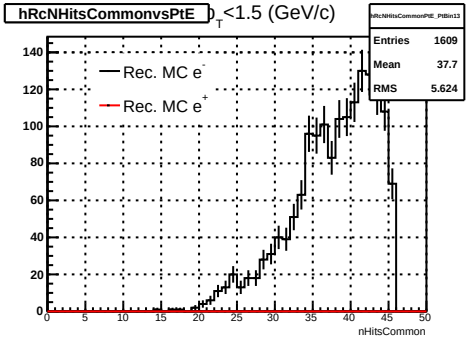

hRcNHitsCommonvsPtE
p_T<1.0 (GeV/c)
hRcNHitsCommonPtE_PtBin8
Entries 1708
Mean 36.46
RMS 6.508
Rec. MC e-
Rec. MC e+
nHitsCommon

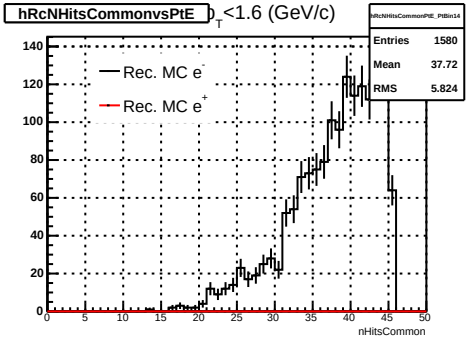

hRcNHitsCommonvsPtE
p_T<1.1 (GeV/c)
hRcNHitsCommonPtE_PtBin9
Entries 1707
Mean 36.92
RMS 6.312
Rec. MC e-
Rec. MC e+
nHitsCommon

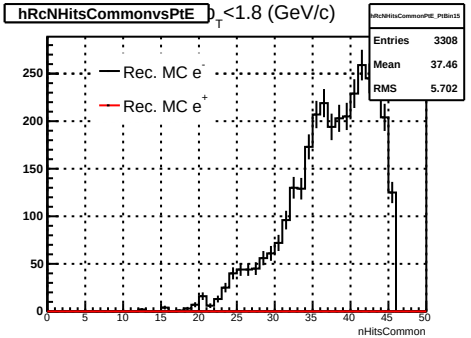

hRcNHitsCommonvsPtE
p_T<1.2 (GeV/c)
hRcNHitsCommonPtE_PtBin10
Entries 1636
Mean 37.34
RMS 5.973
Rec. MC e-
Rec. MC e+
nHitsCommon

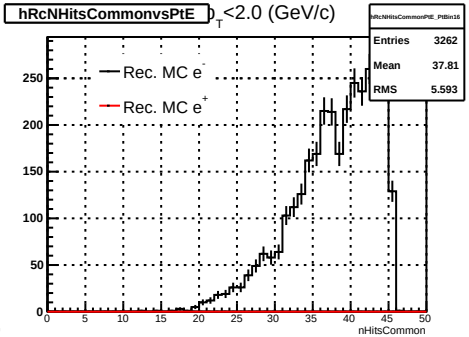

hRcNHitsCommonvsPtE
p_T<1.3 (GeV/c)
hRcNHitsCommonPtE_PtBin11
Entries 1654
Mean 37.22
RMS 5.938
Rec. MC e-
Rec. MC e+
nHitsCommon

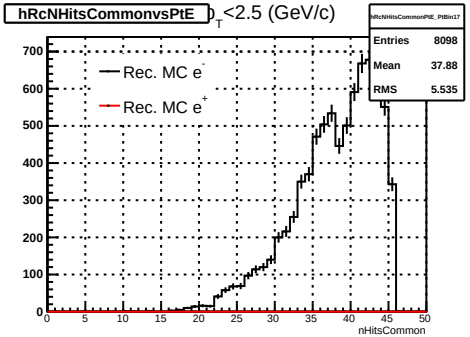

hRcNHitsCommonvsPtE
p_T<1.4 (GeV/c)
hRcNHitsCommonPtE_PtBin12
Entries 1644
Mean 37.23
RMS 5.87
Rec. MC e-
Rec. MC e+
nHitsCommon

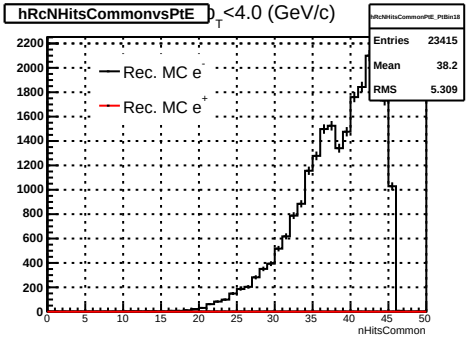

hRcNHitsCommonvsPtE
p_T<1.5 (GeV/c)
hRcNHitsCommonPtE_PtBin13
Entries 1609
Mean 37.7
RMS 5.624
Rec. MC e-
Rec. MC e+
nHitsCommon

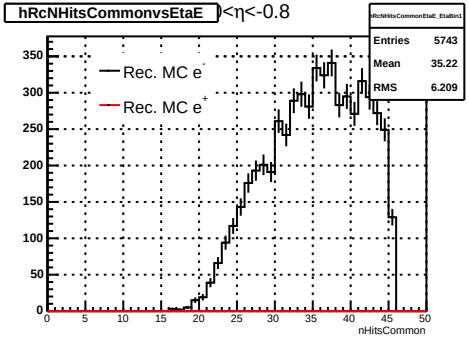

hRcNHitsCommonvsPtE
p_T<1.6 (GeV/c)
hRcNHitsCommonPtE_PtBin14
Entries 1580
Mean 37.72
RMS 5.824
Rec. MC e-
Rec. MC e+
nHitsCommon

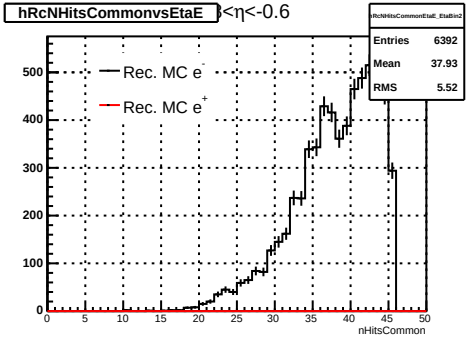

hRcNHitsCommonvsPtE
p_T<1.8 (GeV/c)
hRcNHitsCommonPtE_PtBin15
Entries 3308
Mean 37.46
RMS 5.702
Rec. MC e-
Rec. MC e+
nHitsCommon

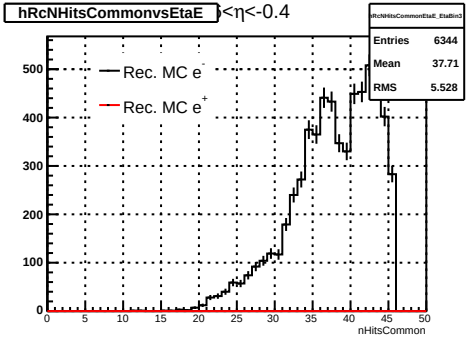

hRcNHitsCommonvsPtE
p_T<2.0 (GeV/c)
hRcNHitsCommonPtE_PtBin16
Entries 3262
Mean 37.81
RMS 5.593
Rec. MC e-
Rec. MC e+
nHitsCommon

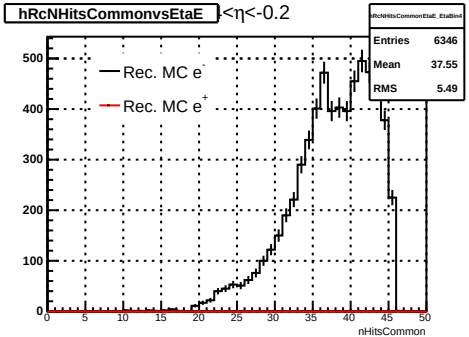

hRcNHitsCommonvsPtE
p_T<2.5 (GeV/c)
hRcNHitsCommonPtE_PtBin17
Entries 8098
Mean 37.88
RMS 5.535
Rec. MC e-
Rec. MC e+
nHitsCommon

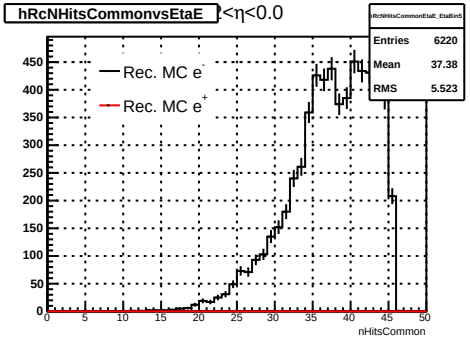

hRcNHitsCommonvsPtE
p_T<4.0 (GeV/c)
hRcNHitsCommonPtE_PtBin18
Entries 23415
Mean 38.2
RMS 5.309
Rec. MC e-
Rec. MC e+
nHitsCommon

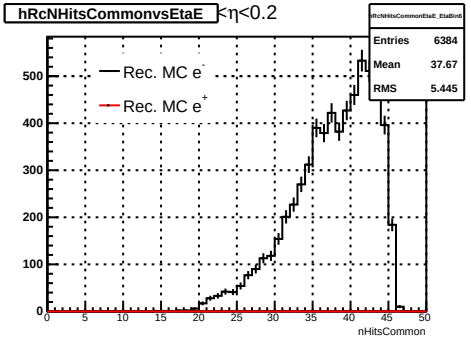

hRcNHitsCommonvsEtaE
<η<-0.8
Entries 5743
Mean 35.22
RMS 6.209
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
<η<-0.6
Entries 6392
Mean 37.93
RMS 5.52
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
<η<-0.4
Entries 6344
Mean 37.71
RMS 5.528
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
<η<-0.2
Entries 6346
Mean 37.55
RMS 5.49
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
<η<0.0
Entries 6220
Mean 37.38
RMS 5.523
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
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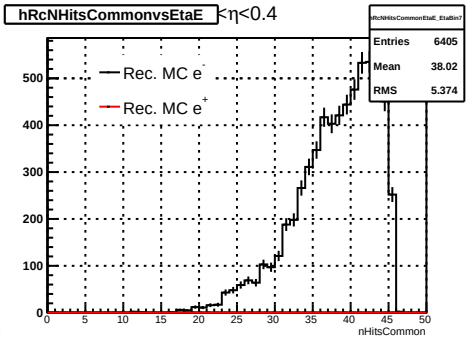
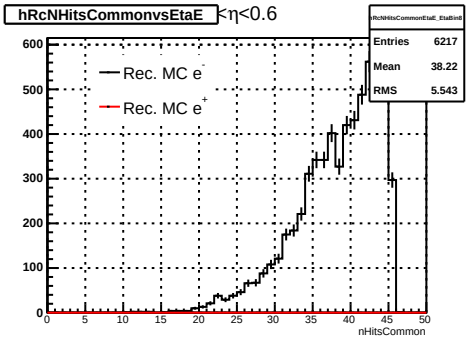
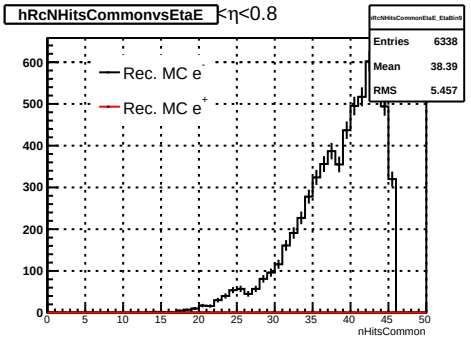
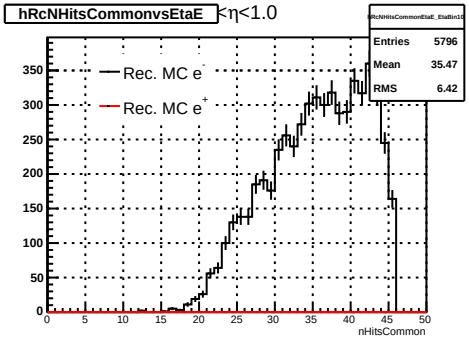
Entries 6384
Mean 37.67
RMS 5.445
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
<η<0.4
Entries 6405
Mean 38.02
RMS 5.374
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
<η<0.6
Entries 6217
Mean 38.22
RMS 5.543
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
<η<0.8
Entries 6338
Mean 38.39
RMS 5.457
Rec. MC e-
Rec. MC e+
nHitsCommon



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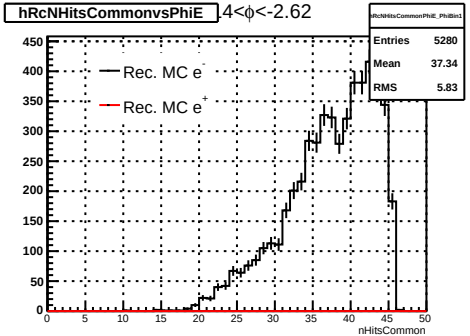
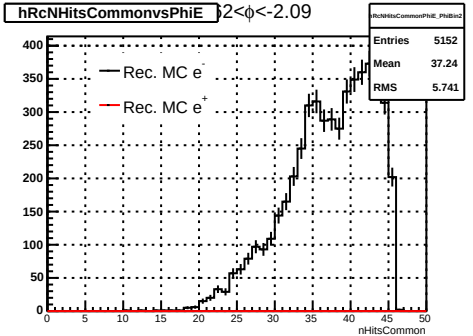
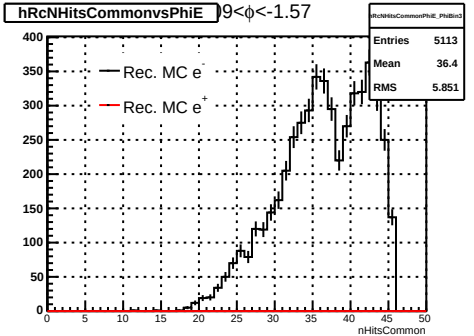
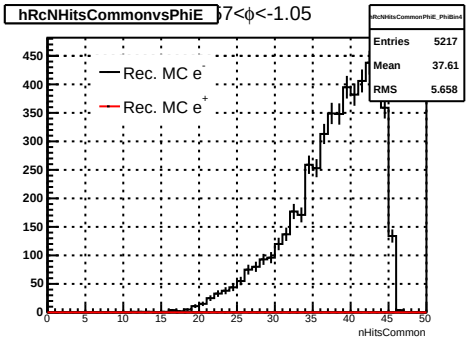
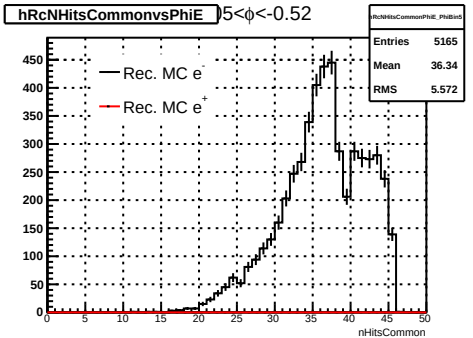
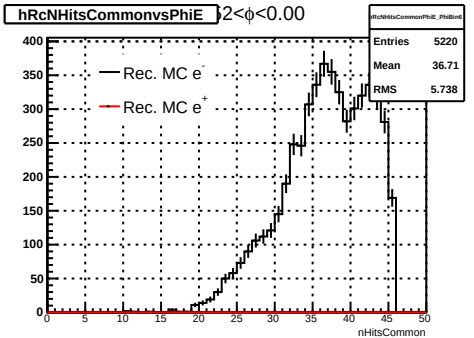

hRcNHitsCommonvsPhiE
4<ϕ<-2.62
Entries 5280
Mean 37.34
RMS 5.83
Rec. MC e-
Rec. MC e+
nHitsCommon

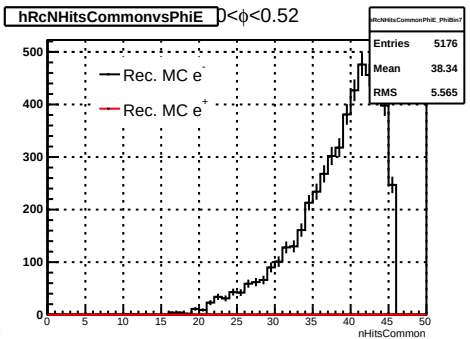

hRcNHitsCommonvsPhiE
2<ϕ<-2.09
Entries 5152
Mean 37.24
RMS 5.741
Rec. MC e-
Rec. MC e+
nHitsCommon

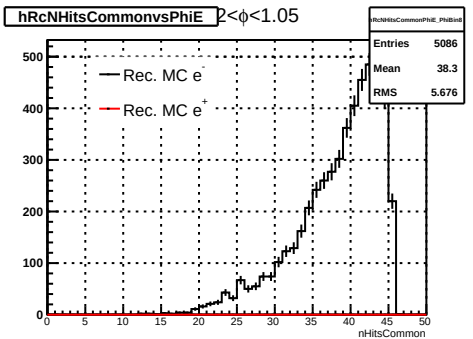

hRcNHitsCommonvsPhiE
9<ϕ<-1.57
Entries 5113
Mean 36.4
RMS 5.851
Rec. MC e-
Rec. MC e+
nHitsCommon

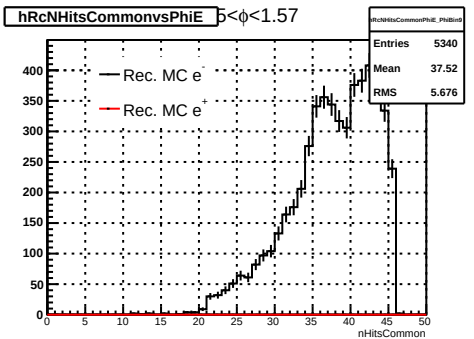

hRcNHitsCommonvsPhiE
7<ϕ<-1.05
Entries 5217
Mean 37.61
RMS 5.658
Rec. MC e-
Rec. MC e+
nHitsCommon

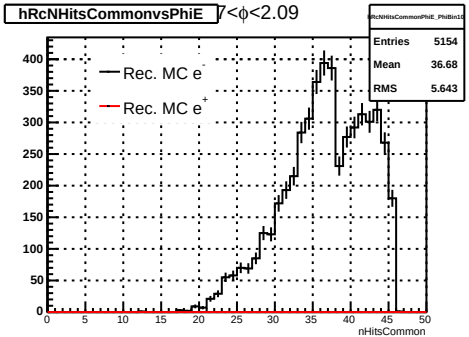

hRcNHitsCommonvsPhiE
5<ϕ<-0.52
Entries 5165
Mean 36.34
RMS 5.572
Rec. MC e-
Rec. MC e+
nHitsCommon

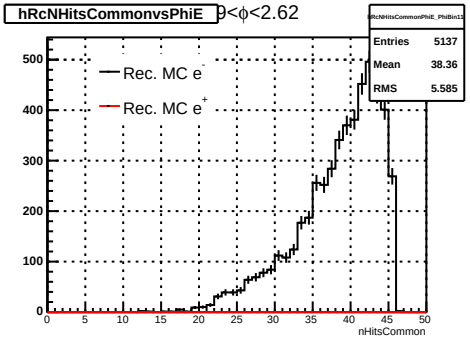

hRcNHitsCommonvsPhiE
2<ϕ<0.00
Entries 5220
Mean 36.71
RMS 5.738
Rec. MC e-
Rec. MC e+
nHitsCommon

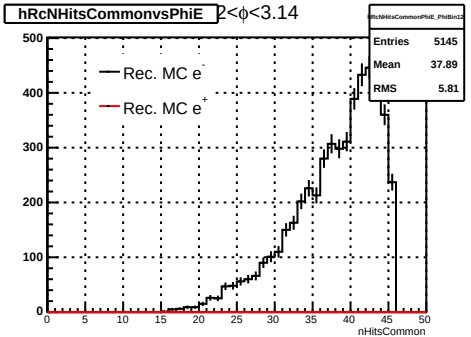

hRcNHitsCommonvsPhiE
0<ϕ<0.52
Entries 5176
Mean 38.34
RMS 5.565
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPhiE
2<ϕ<1.05
Entries 5086
Mean 38.3
RMS 5.676
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPhiE
5<ϕ<1.57
Entries 5340
Mean 37.52
RMS 5.676
Rec. MC e-
Rec. MC e+
nHitsCommon







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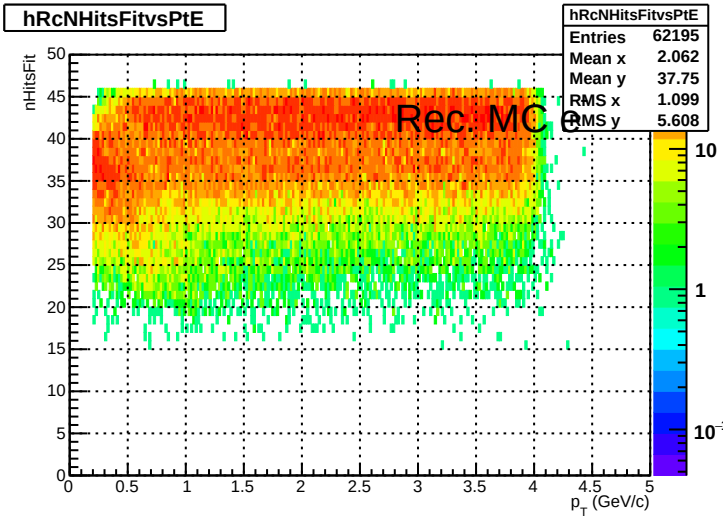
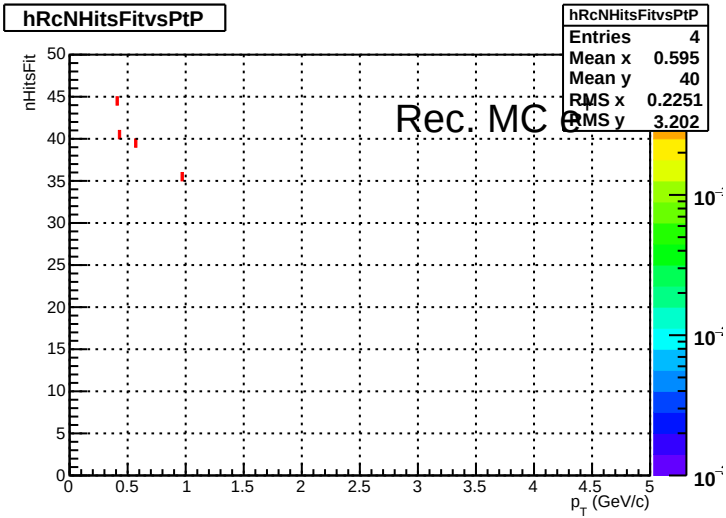
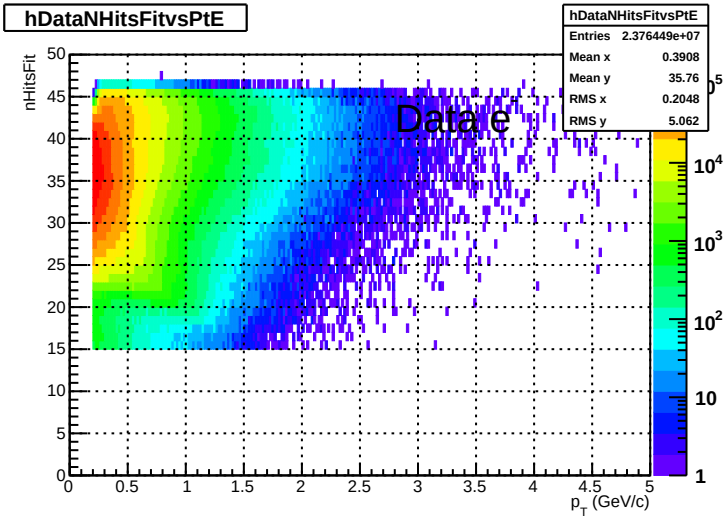
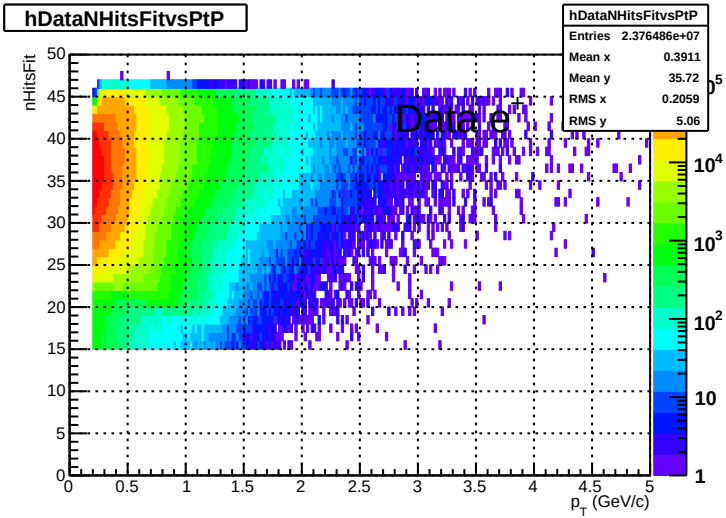
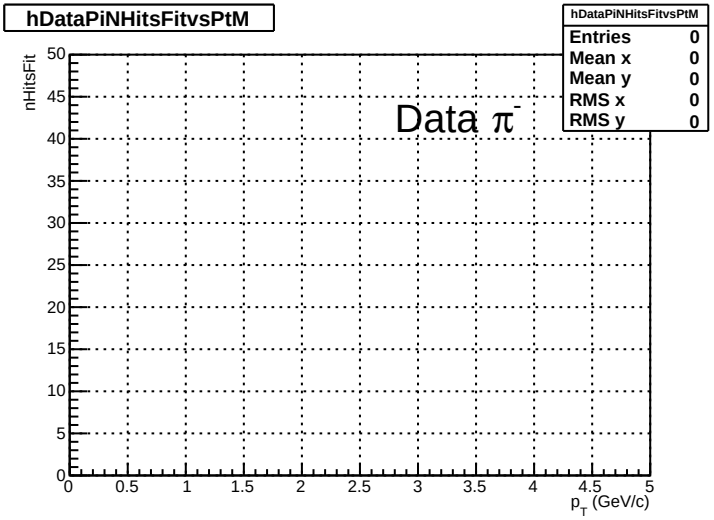
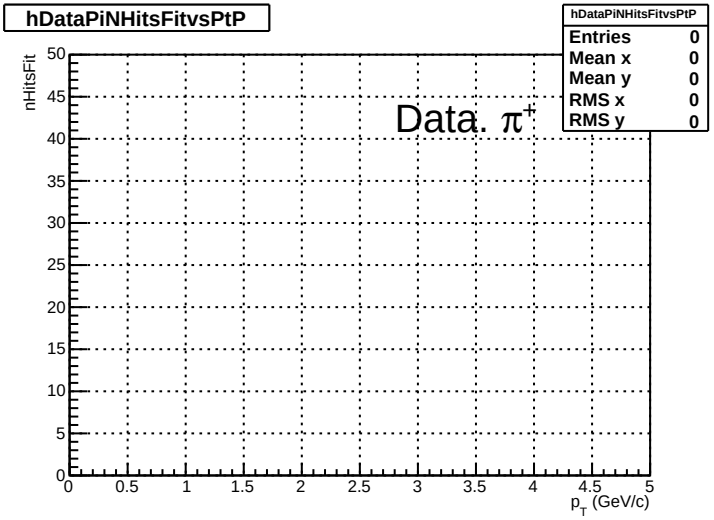

hRcNHitsFitvsPtE
hRcNHitsFitvsPtE
Entries 62195
Mean x 2.062
Mean y 37.75
RMS x 1.099
RMS y 5.608
Rec. MC e-
nHitsFit
p_T (GeV/c)

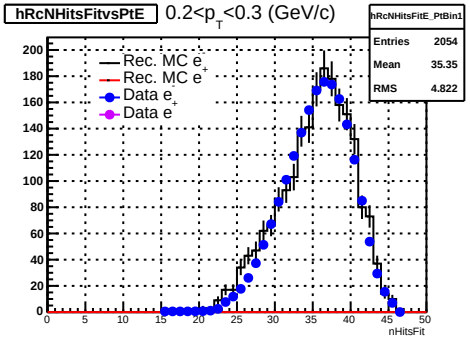

hRcNHitsFitvsPtP
hRcNHitsFitvsPtP
Entries 4
Mean x 0.595
Mean y 40
RMS x 0.2251
RMS y 3.202
Rec. MC e+
nHitsFit
p_T (GeV/c)

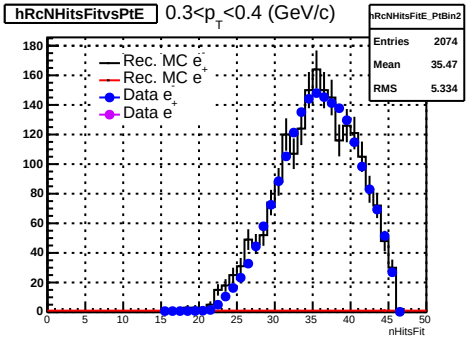

hDataNHitsFitvsPtE
hDataNHitsFitvsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 35.76
RMS x 0.2048
RMS y 5.062
Data e-
nHitsFit
p_T (GeV/c)

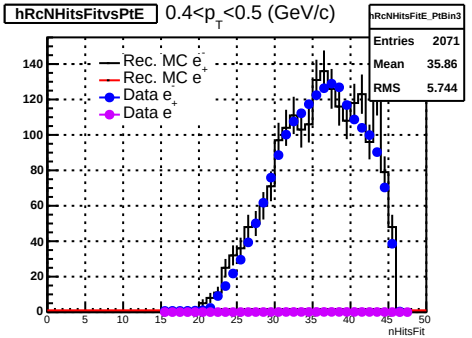

hDataNHitsFitvsPtP
hDataNHitsFitvsPtP
Entries 2.376486e+07
Mean x 0.3911
Mean y 35.72
RMS x 0.2059
RMS y 5.06
Data e+
nHitsFit
p_T (GeV/c)

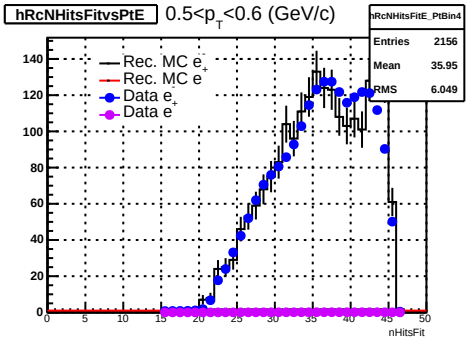

hDataPiNHitsFitvsPtM
hDataPiNHitsFitvsPtM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsFit
pT (GeV/c)

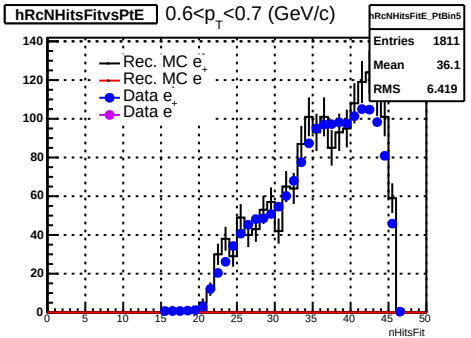

hDataPiNHitsFitvsPtP
hDataPiNHitsFitvsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsFit
pT (GeV/c)

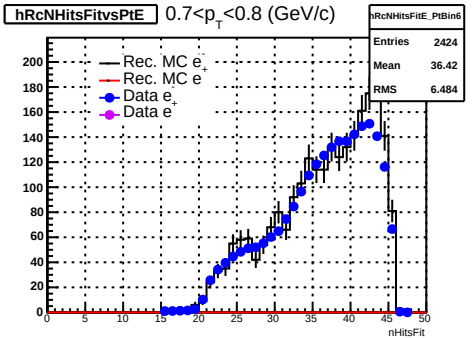

hRcNHitsFitvsPtE
0.2<p_T<0.3 (GeV/c)
hRcNHitsFitE_PtBin1
Entries 2054
Mean 35.35
RMS 4.822
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

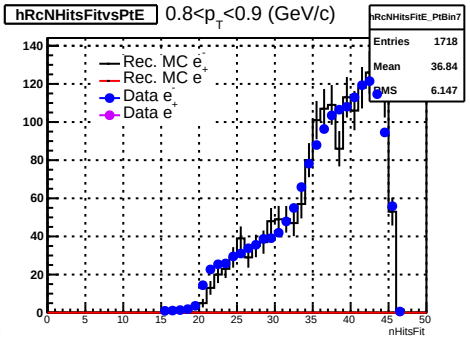

hRcNHitsFitvsPtE
0.3<p_T<0.4 (GeV/c)
hRcNHitsFitE_PtBin2
Entries 2074
Mean 35.47
RMS 5.334
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

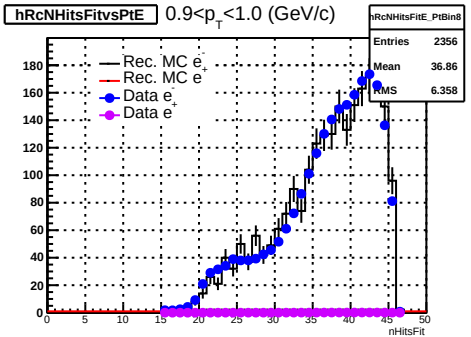

hRcNHitsFitvsPtE
0.4<p_T<0.5 (GeV/c)
hRcNHitsFitE_PtBin3
Entries 2071
Mean 35.86
RMS 5.744
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

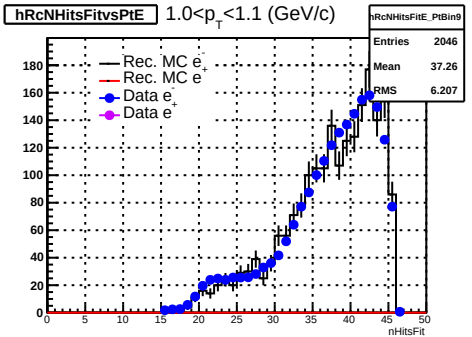

hRcNHitsFitvsPtE
0.5<p_T<0.6 (GeV/c)
hRcNHitsFitE_PtBin4
Entries 2156
Mean 35.95
RMS 6.049
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

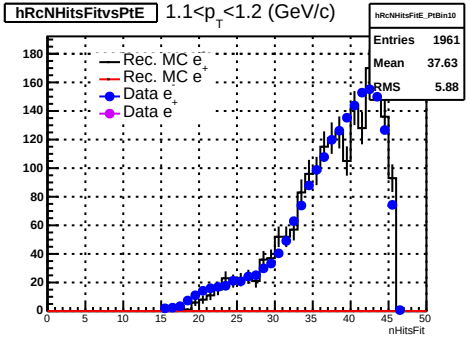

hRcNHitsFitvsPtE
0.6<p_T<0.7 (GeV/c)
hRcNHitsFitE_PtBin5
Entries 1811
Mean 36.1
RMS 6.419
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

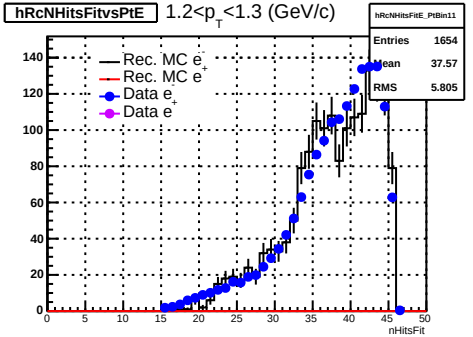

hRcNHitsFitvsPtE
0.7<p_T<0.8 (GeV/c)
hRcNHitsFitE_PtBin6
Entries 2424
Mean 36.42
RMS 6.484
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

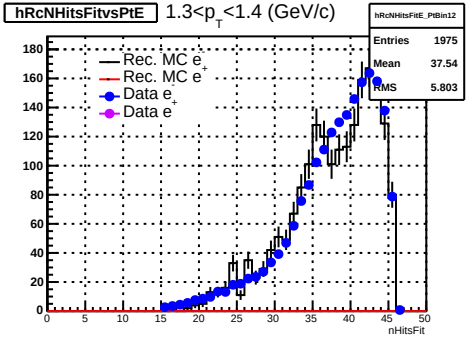

hRcNHitsFitvsPtE
0.8<p_T<0.9 (GeV/c)
hRcNHitsFitE_PtBin7
Entries 1718
Mean 36.84
RMS 6.147
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

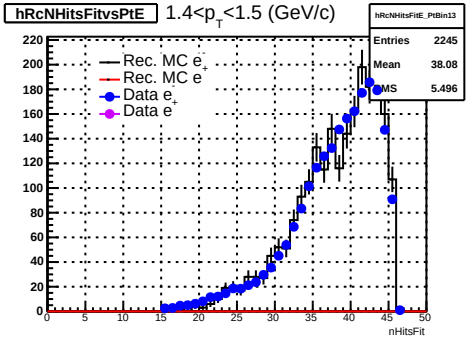

hRcNHitsFitvsPtE
0.9<p_T<1.0 (GeV/c)
hRcNHitsFitE_PtBin8
Entries 2356
Mean 36.86
RMS 6.358
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

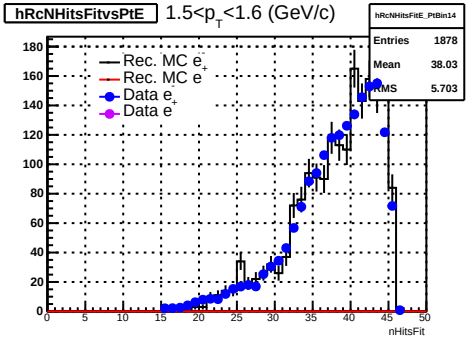

hRcNHitsFitvsPtE
1.0<p_T<1.1 (GeV/c)
hRcNHitsFitE_PtBin9
Entries 2046
Mean 37.26
RMS 6.207
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

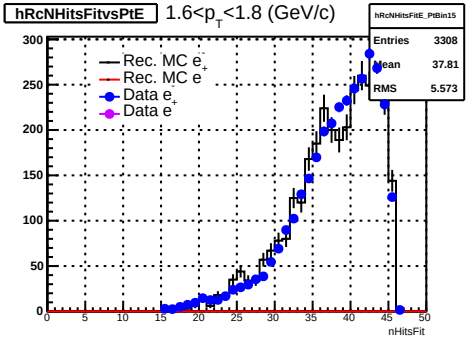

hRcNHitsFitvsPtE
1.1<p_T<1.2 (GeV/c)
hRcNHitsFitE_PtBin10
Entries 1961
Mean 37.63
RMS 5.88
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

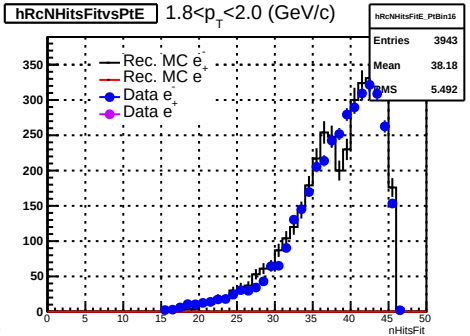

hRcNHitsFitvsPtE
1.2<p_T<1.3 (GeV/c)
hRcNHitsFitE_PtBin11
Entries 1654
Mean 37.57
RMS 5.805
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

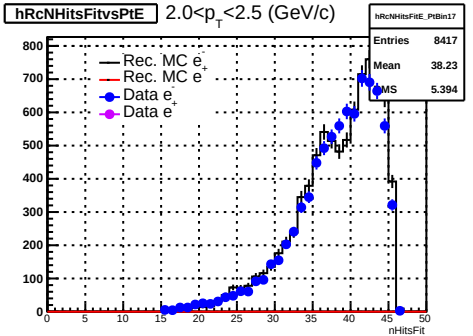

hRcNHitsFitvsPtE
1.3<p_T<1.4 (GeV/c)
hRcNHitsFitE_PtBin12
Entries 1975
Mean 37.54
RMS 5.803
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

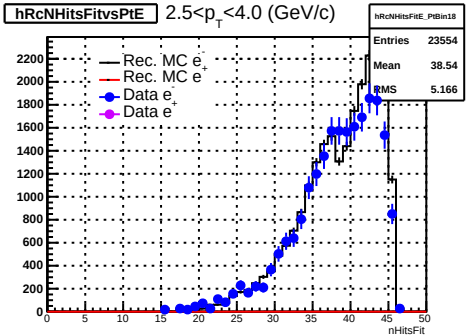

hRcNHitsFitvsPtE
1.4<p_T<1.5 (GeV/c)
hRcNHitsFitE_PtBin13
Entries 2245
Mean 38.08
RMS 5.496
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

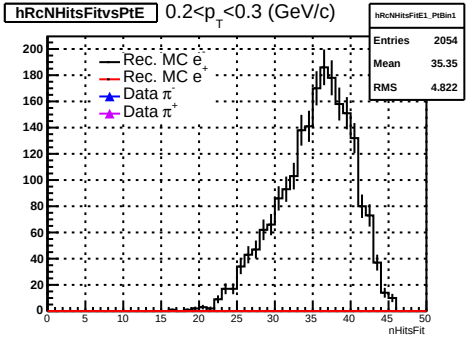

hRcNHitsFitvsPtE
1.5<p_T<1.6 (GeV/c)
hRcNHitsFitE_PtBin14
Entries 1878
Mean 38.03
RMS 5.703
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

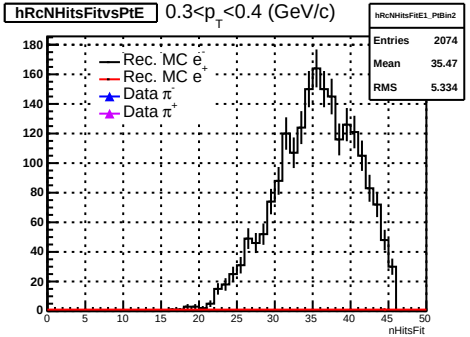

hRcNHitsFitvsPtE
1.6<p_T<1.8 (GeV/c)
hRcNHitsFitE_PtBin15
Entries 3308
Mean 37.81
RMS 5.573
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

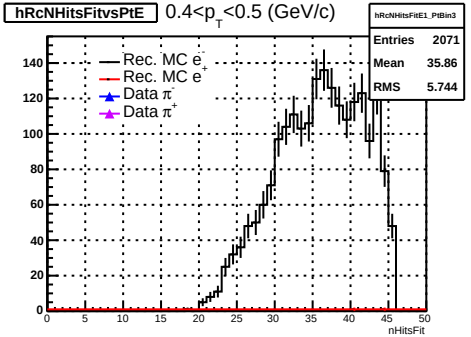

hRcNHitsFitvsPtE
1.8<p_T<2.0 (GeV/c)
hRcNHitsFitE_PtBin16
Entries 3943
Mean 38.18
RMS 5.492
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

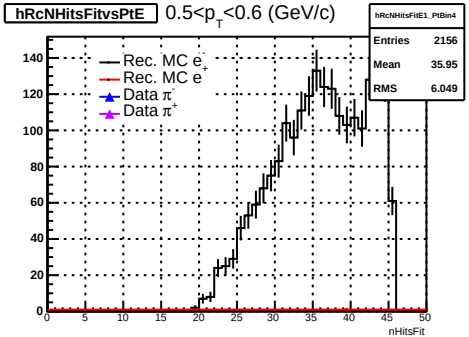

hRcNHitsFitvsPtE
2.0<p_T<2.5 (GeV/c)
hRcNHitsFitE_PtBin17
Entries 8417
Mean 38.23
RMS 5.394
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

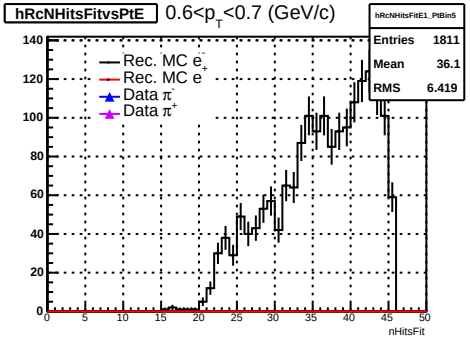

hRcNHitsFitvsPtE
2.5<p_T<4.0 (GeV/c)
hRcNHitsFitE_PtBin18
Entries 23554
Mean 38.54
RMS 5.166
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsFit

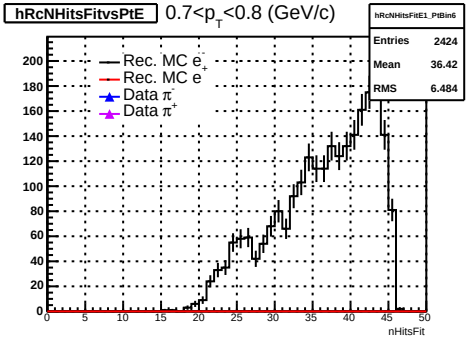

hRcNHitsFitvsPtE
0.2<p_T<0.3 (GeV/c)
hRcNHitsFitE1_PtBin1
Entries 2054
Mean 35.35
RMS 4.822
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

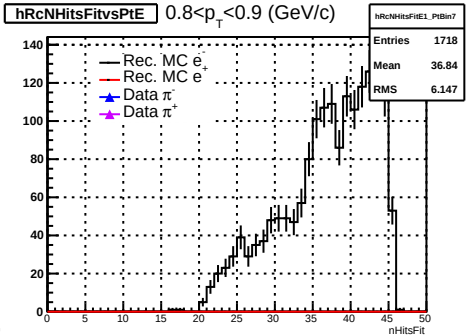

hRcNHitsFitvsPtE
0.3<p_T<0.4 (GeV/c)
hRcNHitsFitE1_PtBin2
Entries 2074
Mean 35.47
RMS 5.334
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

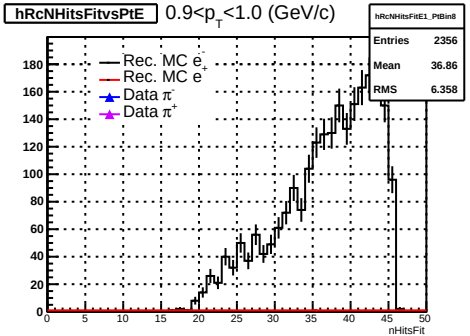

hRcNHitsFitvsPtE
0.4<p_T<0.5 (GeV/c)
hRcNHitsFitE1_PtBin3
Entries 2071
Mean 35.86
RMS 5.744
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

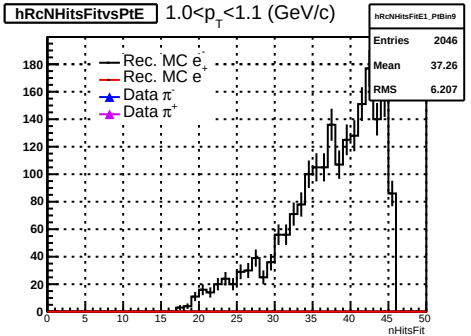

hRcNHitsFitvsPtE
0.5<p_T<0.6 (GeV/c)
hRcNHitsFitE1_PtBin4
Entries 2156
Mean 35.95
RMS 6.049
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

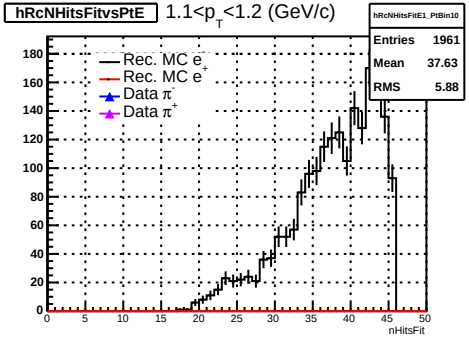

hRcNHitsFitvsPtE
0.6<p_T<0.7 (GeV/c)
hRcNHitsFitE1_PtBin5
Entries 1811
Mean 36.1
RMS 6.419
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

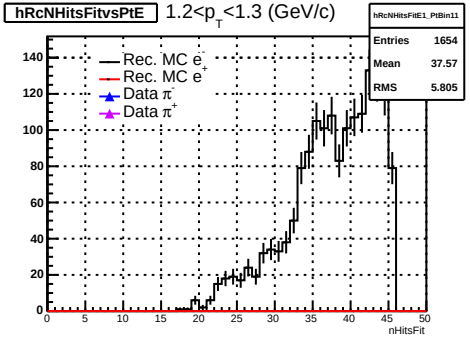

hRcNHitsFitvsPtE
0.7<p_T<0.8 (GeV/c)
hRcNHitsFitE1_PtBin6
Entries 2424
Mean 36.42
RMS 6.484
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPtE
0.8<p_T<0.9 (GeV/c)
hRcNHitsFitE1_PtBin7
Entries 1718
Mean 36.84
RMS 6.147
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPtE
0.9<p_T<1.0 (GeV/c)
hRcNHitsFitE1_PtBin8
Entries 2356
Mean 36.86
RMS 6.358
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPtE
1.0<p_T<1.1 (GeV/c)
hRcNHitsFitE1_PtBin9
Entries 2046
Mean 37.26
RMS 6.207
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPtE
1.1<p_T<1.2 (GeV/c)
hRcNHitsFitE1_PtBin10
Entries 1961
Mean 37.63
RMS 5.88
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPtE
1.2<p_T<1.3 (GeV/c)
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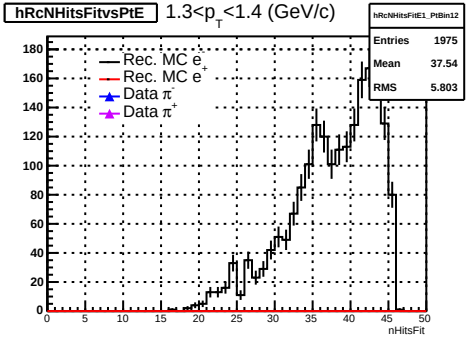
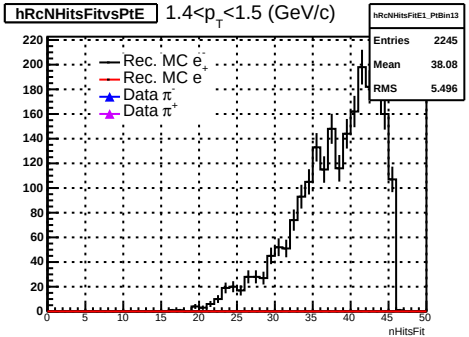
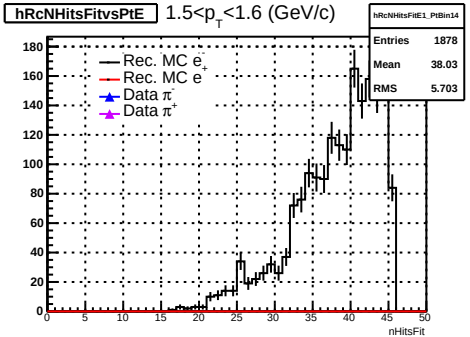
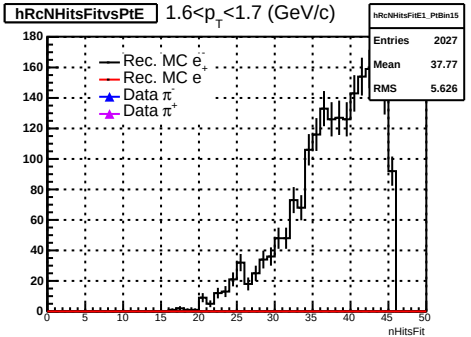
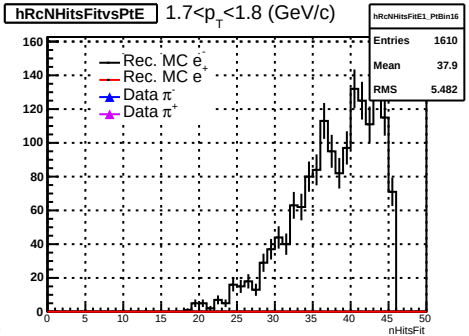
Entries 1654
Mean 37.57
RMS 5.805
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

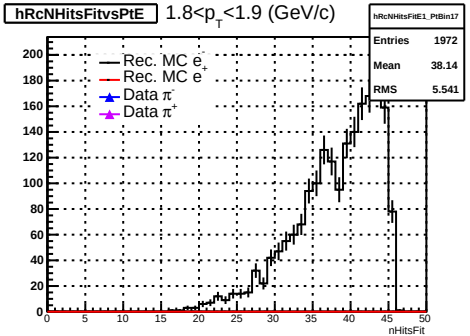

hRcNHitsFitvsPtE
1.3<p_T<1.4 (GeV/c)
hRcNHitsFitE1_PtBin12
Entries 1975
Mean 37.54
RMS 5.803
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

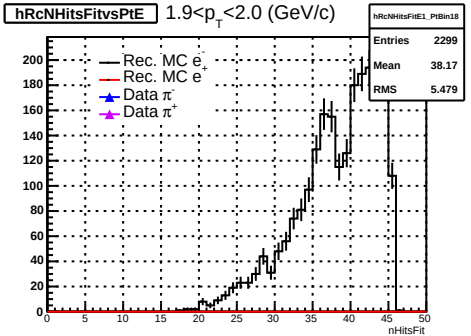

hRcNHitsFitvsPtE
1.4<p_T<1.5 (GeV/c)
hRcNHitsFitE1_PtBin13
Entries 2245
Mean 38.08
RMS 5.496
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

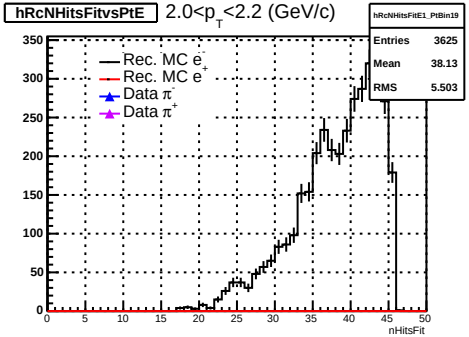

hRcNHitsFitvsPtE
1.5<p_T<1.6 (GeV/c)
hRcNHitsFitE1_PtBin14
Entries 1878
Mean 38.03
RMS 5.703
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

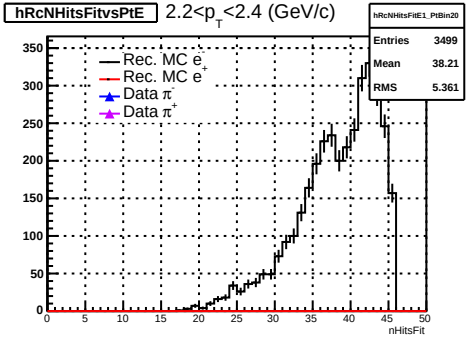

hRcNHitsFitvsPtE
1.6<p_T<1.7 (GeV/c)
hRcNHitsFitE1_PtBin15
Entries 2027
Mean 37.77
RMS 5.626
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

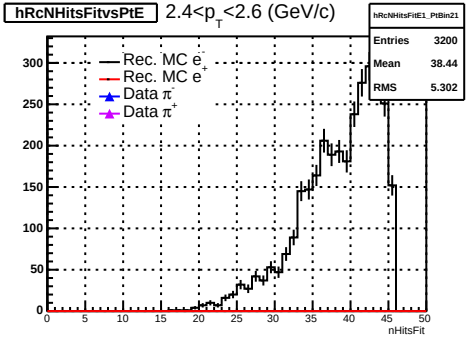

hRcNHitsFitvsPtE
1.7<p_T<1.8 (GeV/c)
hRcNHitsFitE1_PtBin16
Entries 1610
Mean 37.9
RMS 5.482
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

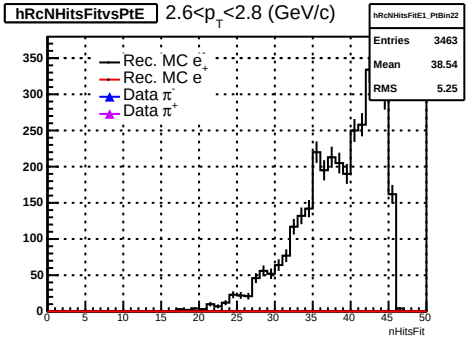

hRcNHitsFitvsPtE
1.8<p_T<1.9 (GeV/c)
hRcNHitsFitE1_PtBin17
Entries 1972
Mean 38.14
RMS 5.541
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

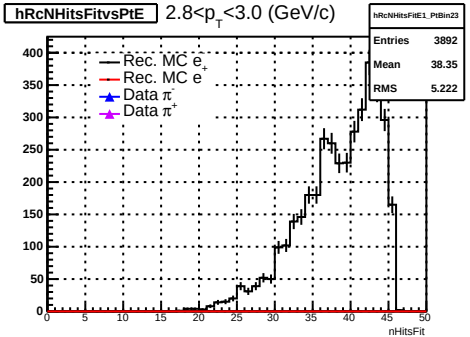

hRcNHitsFitvsPtE
1.9<p_T<2.0 (GeV/c)
hRcNHitsFitE1_PtBin18
Entries 2299
Mean 38.17
RMS 5.479
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

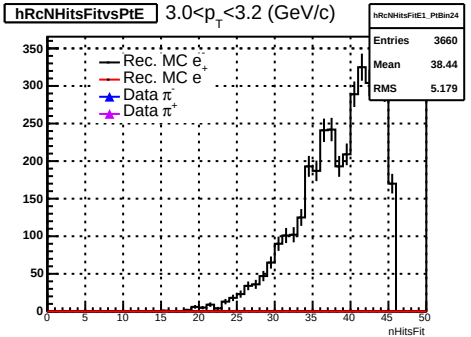

hRcNHitsFitvsPtE
2.0<p_T<2.2 (GeV/c)
hRcNHitsFitE1_PtBin19
Entries 3625
Mean 38.13
RMS 5.503
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

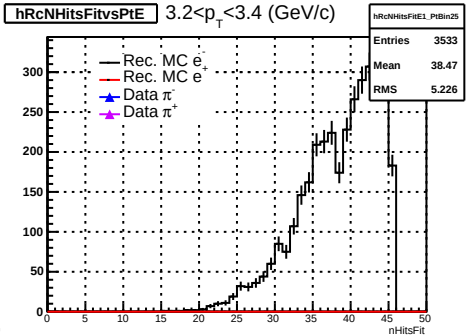

hRcNHitsFitvsPtE
2.2<p_T<2.4 (GeV/c)
hRcNHitsFitE1_PtBin20
Entries 3499
Mean 38.21
RMS 5.361
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

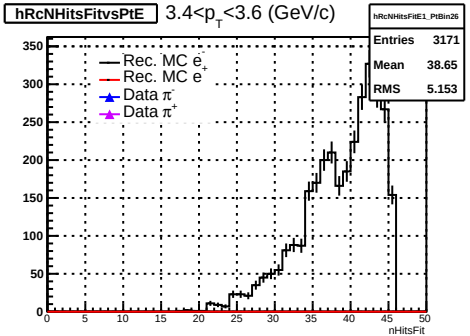

hRcNHitsFitvsPtE
2.4<p_T<2.6 (GeV/c)
hRcNHitsFitE1_PtBin21
Entries 3200
Mean 38.44
RMS 5.302
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

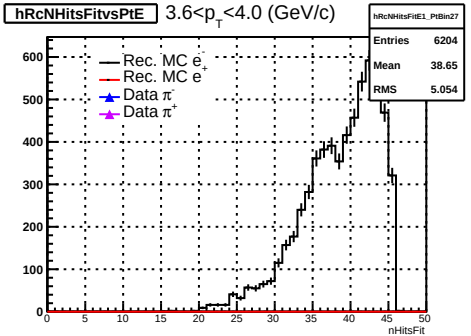

hRcNHitsFitvsPtE
2.6<p_T<2.8 (GeV/c)
hRcNHitsFitE1_PtBin22
Entries 3463
Mean 38.54
RMS 5.25
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

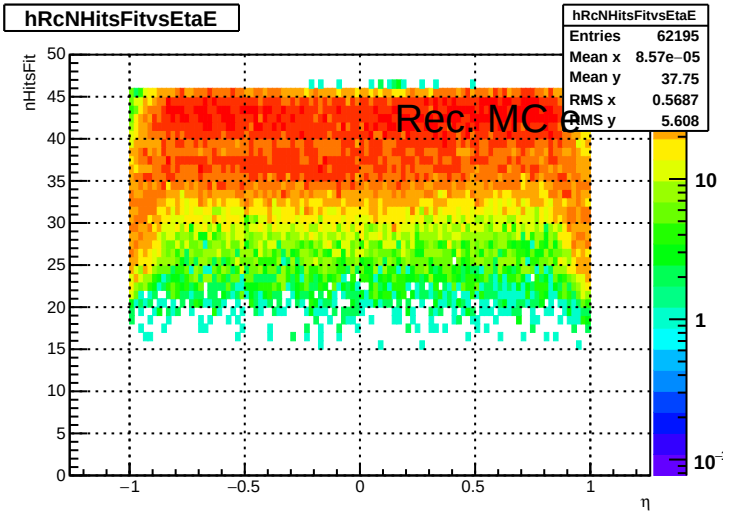

hRcNHitsFitvsPtE
2.8<p_T<3.0 (GeV/c)
hRcNHitsFitE1_PtBin23
Entries 3892
Mean 38.35
RMS 5.222
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

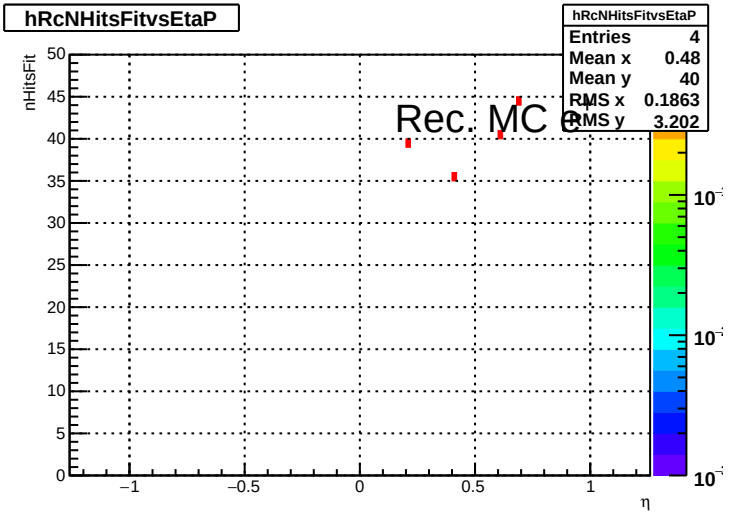

hRcNHitsFitvsPtE
3.0<p_T<3.2 (GeV/c)
hRcNHitsFitE1_PtBin24
Entries 3660
Mean 38.44
RMS 5.179
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

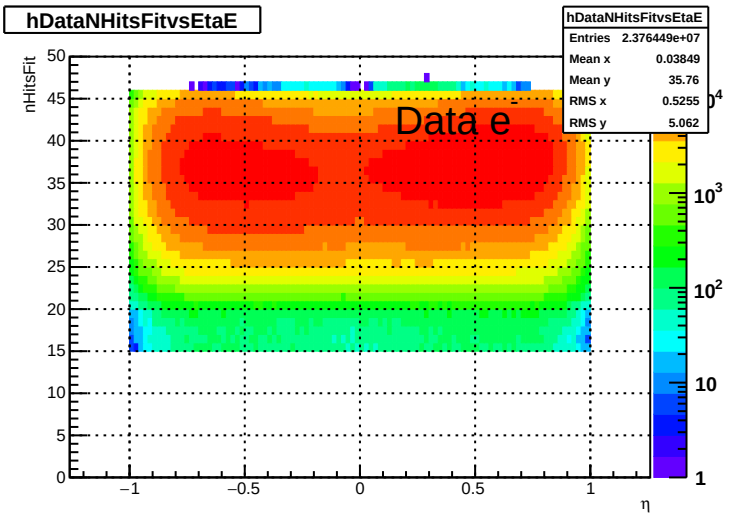

hRcNHitsFitvsPtE
3.2<p_T<3.4 (GeV/c)
hRcNHitsFitE1_PtBin25
Entries 3533
Mean 38.47
RMS 5.226
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

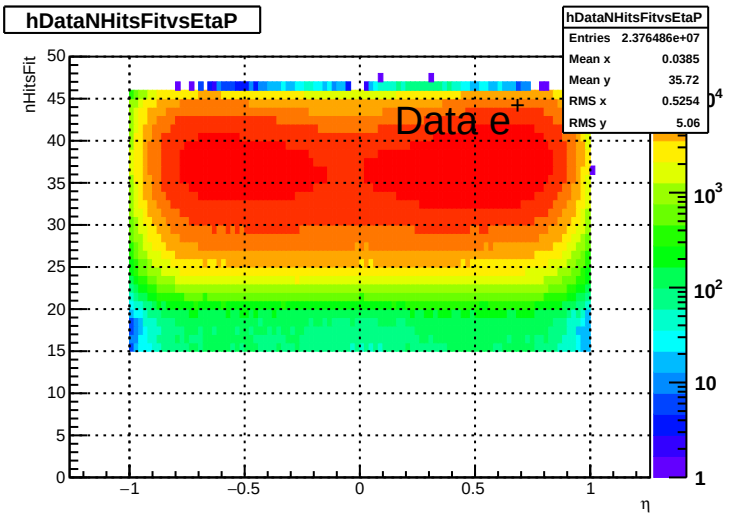

hRcNHitsFitvsPtE
3.4<p_T<3.6 (GeV/c)
hRcNHitsFitE1_PtBin26
Entries 3171
Mean 38.65
RMS 5.153
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

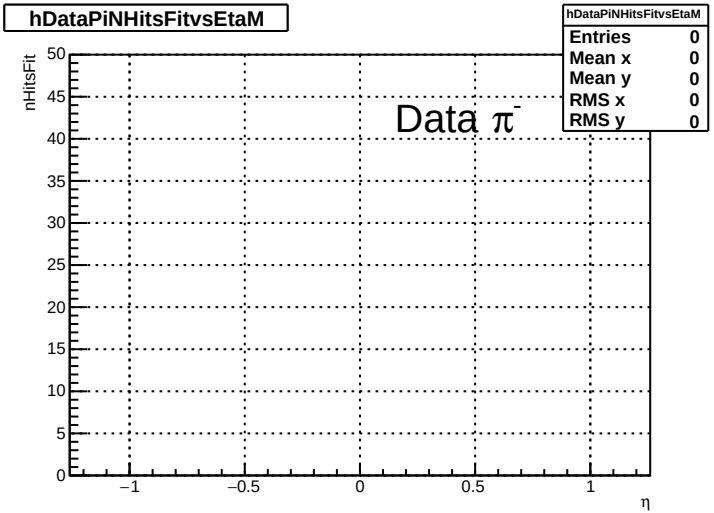

hRcNHitsFitvsPtE
3.6<p_T<4.0 (GeV/c)
hRcNHitsFitE1_PtBin27
Entries 6204
Mean 38.65
RMS 5.054
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

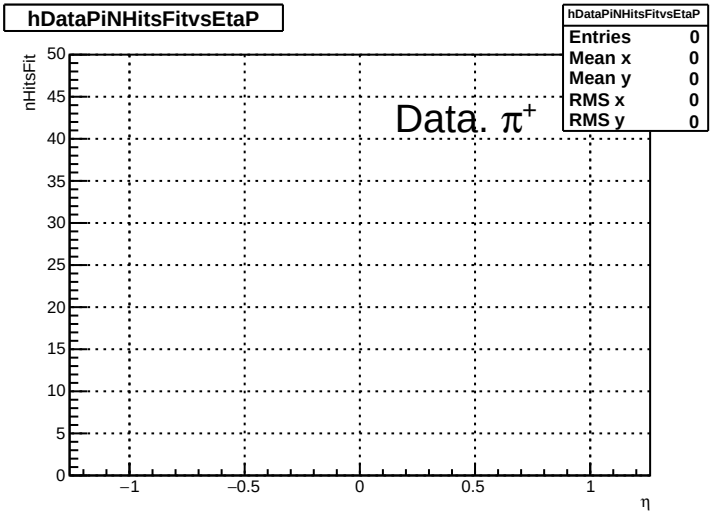

hRcNHitsFitvsEtaE
hRcNHitsFitvsEtaE
Entries 62195
Mean x 8.57e−05
Mean y 37.75
RMS x 0.5687
RMS y 5.608
Rec. MC e
nHitsFit
η

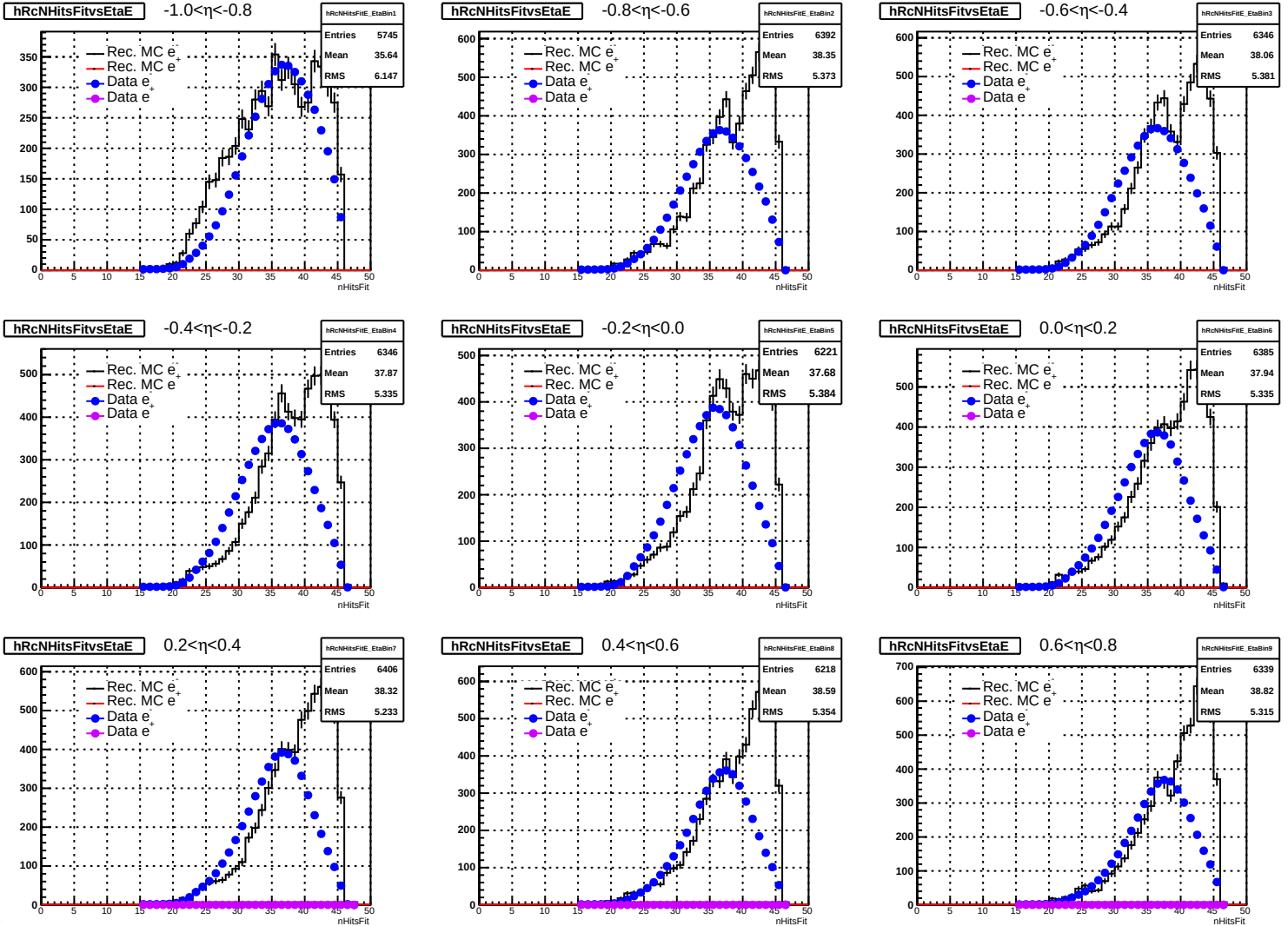

hRcNHitsFitvsEtaP
hRcNHitsFitvsEtaP
Entries 4
Mean x 0.48
Mean y 40
RMS x 0.1863
RMS y 3.202
Rec. MC e
nHitsFit
η

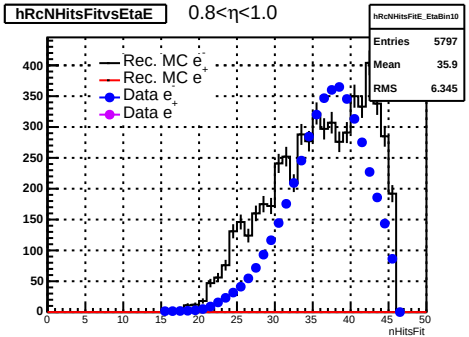

hDataNHitsFitvsEtaE
hDataNHitsFitvsEtaE
Entries 2.376449e+07
Mean x 0.03849
Mean y 35.76
RMS x 0.5255
RMS y 5.062
Data e-
nHitsFit
η


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


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


hRcNHitsFitvsEtaE
-1.0<η<-0.8
hRcNHitsFitE_EtaBin1
Entries 5745
Mean 35.64
RMS 6.147
hRcNHitsFitvsEtaE
-0.8<η<-0.6
hRcNHitsFitE_EtaBin2
Entries 6392
Mean 38.35
RMS 5.373
hRcNHitsFitvsEtaE
-0.6<η<-0.4
hRcNHitsFitE_EtaBin3
Entries 6346
Mean 38.06
RMS 5.381
hRcNHitsFitvsEtaE
-0.4<η<-0.2
hRcNHitsFitE_EtaBin4
Entries 6346
Mean 37.87
RMS 5.335
hRcNHitsFitvsEtaE
-0.2<η<0.0
hRcNHitsFitE_EtaBin5
Entries 6221
Mean 37.68
RMS 5.384
hRcNHitsFitvsEtaE
0.0<η<0.2
hRcNHitsFitE_EtaBin6
Entries 6385
Mean 37.94
RMS 5.335
hRcNHitsFitvsEtaE
0.2<η<0.4
hRcNHitsFitE_EtaBin7
Entries 6406
Mean 38.32
RMS 5.233
hRcNHitsFitvsEtaE
0.4<η<0.6
hRcNHitsFitE_EtaBin8
Entries 6218
Mean 38.59
RMS 5.354
hRcNHitsFitvsEtaE
0.6<η<0.8
hRcNHitsFitE_EtaBin9
Entries 6339
Mean 38.82
RMS 5.315
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit



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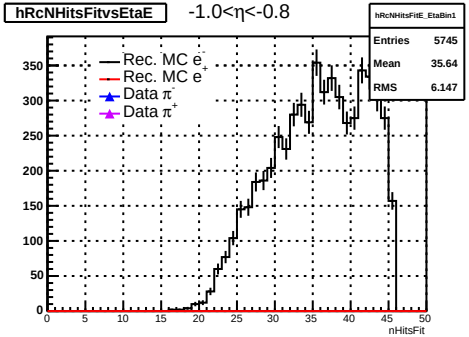
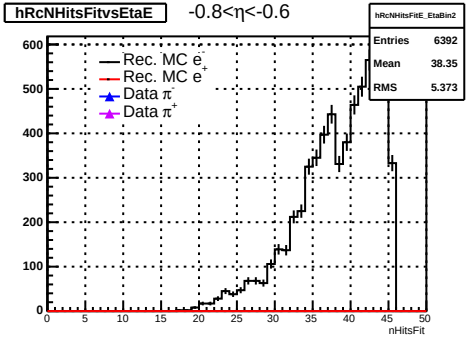
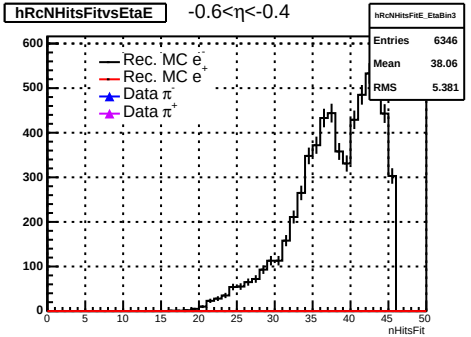
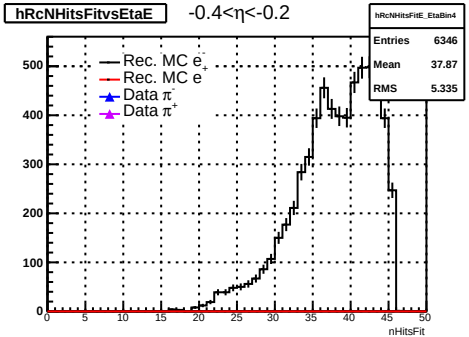
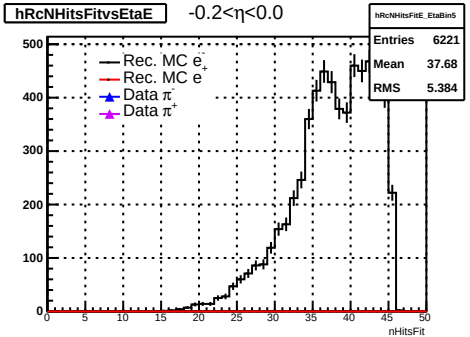
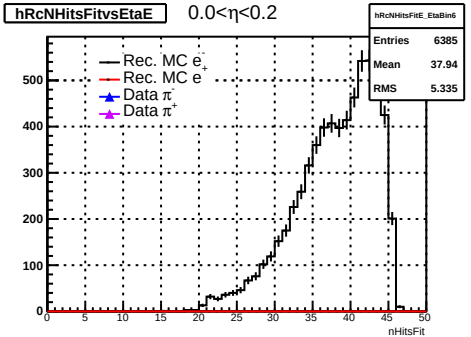

hRcNHitsFitvsEtaE
-1.0<η<-0.8
hRcNHitsFitE_EtaBin1
Entries 5745
Mean 35.64
RMS 6.147
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

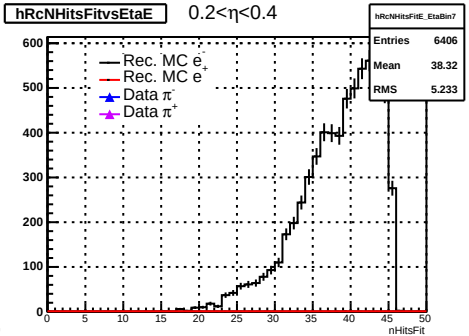

hRcNHitsFitvsEtaE
-0.8<η<-0.6
hRcNHitsFitE_EtaBin2
Entries 6392
Mean 38.35
RMS 5.373
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

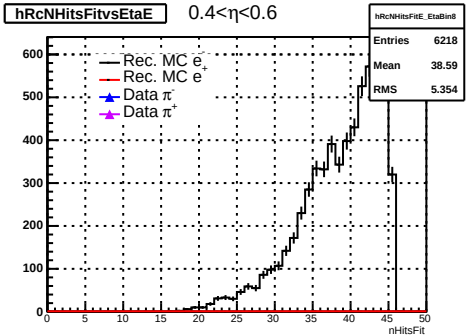

hRcNHitsFitvsEtaE
-0.6<η<-0.4
hRcNHitsFitE_EtaBin3
Entries 6346
Mean 38.06
RMS 5.381
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

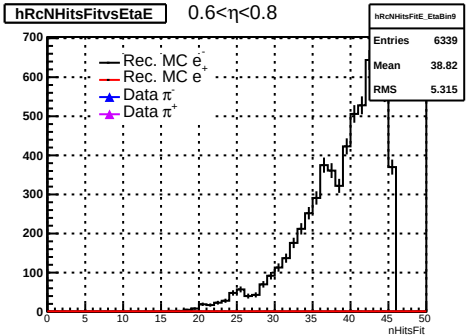

hRcNHitsFitvsEtaE
-0.4<η<-0.2
hRcNHitsFitE_EtaBin4
Entries 6346
Mean 37.87
RMS 5.335
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

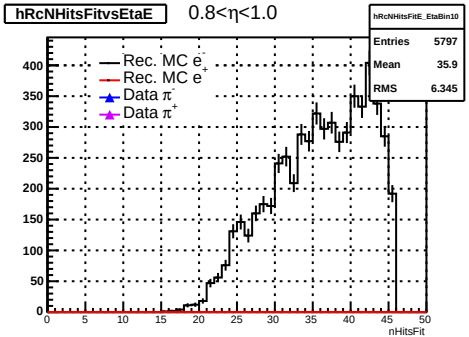

hRcNHitsFitvsEtaE
-0.2<η<0.0
hRcNHitsFitE_EtaBin5
Entries 6221
Mean 37.68
RMS 5.384
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsEtaE
0.0<η<0.2
hRcNHitsFitE_EtaBin6
Entries 6385
Mean 37.94
RMS 5.335
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsEtaE
0.2<η<0.4
hRcNHitsFitE_EtaBin7
Entries 6406
Mean 38.32
RMS 5.233
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsEtaE
0.4<η<0.6
hRcNHitsFitE_EtaBin8
Entries 6218
Mean 38.59
RMS 5.354
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsEtaE
0.6<η<0.8
hRcNHitsFitE_EtaBin9
Entries 6339
Mean 38.82
RMS 5.315
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit



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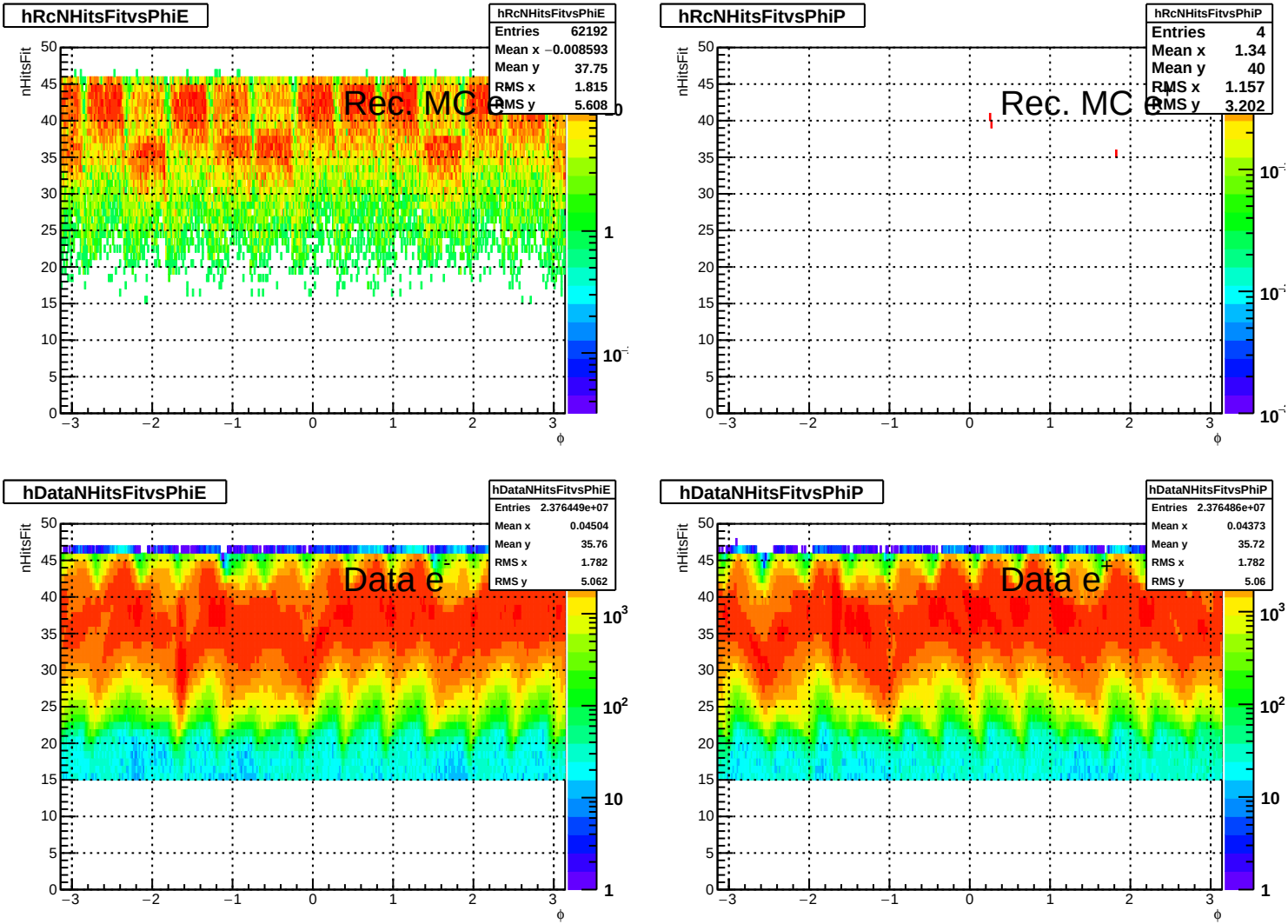
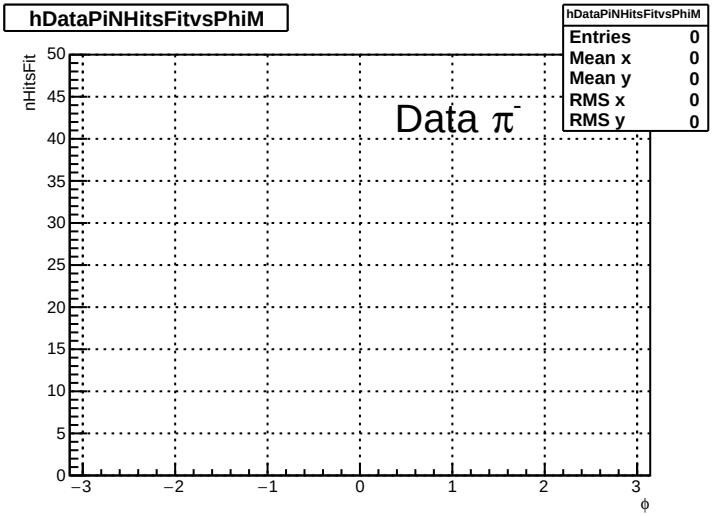
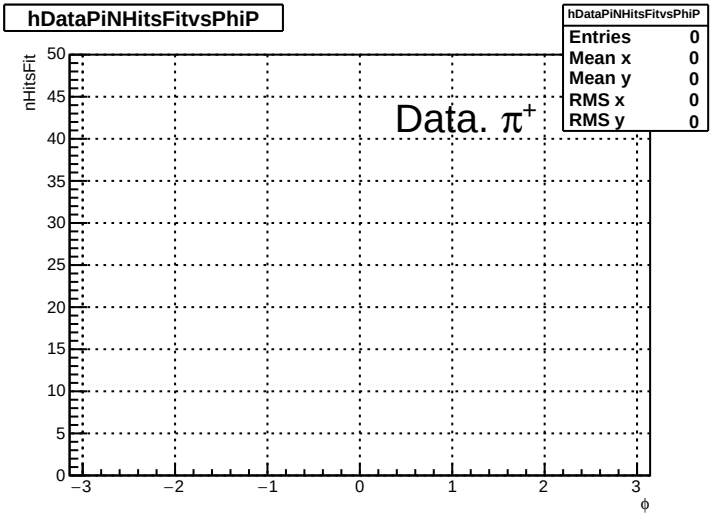
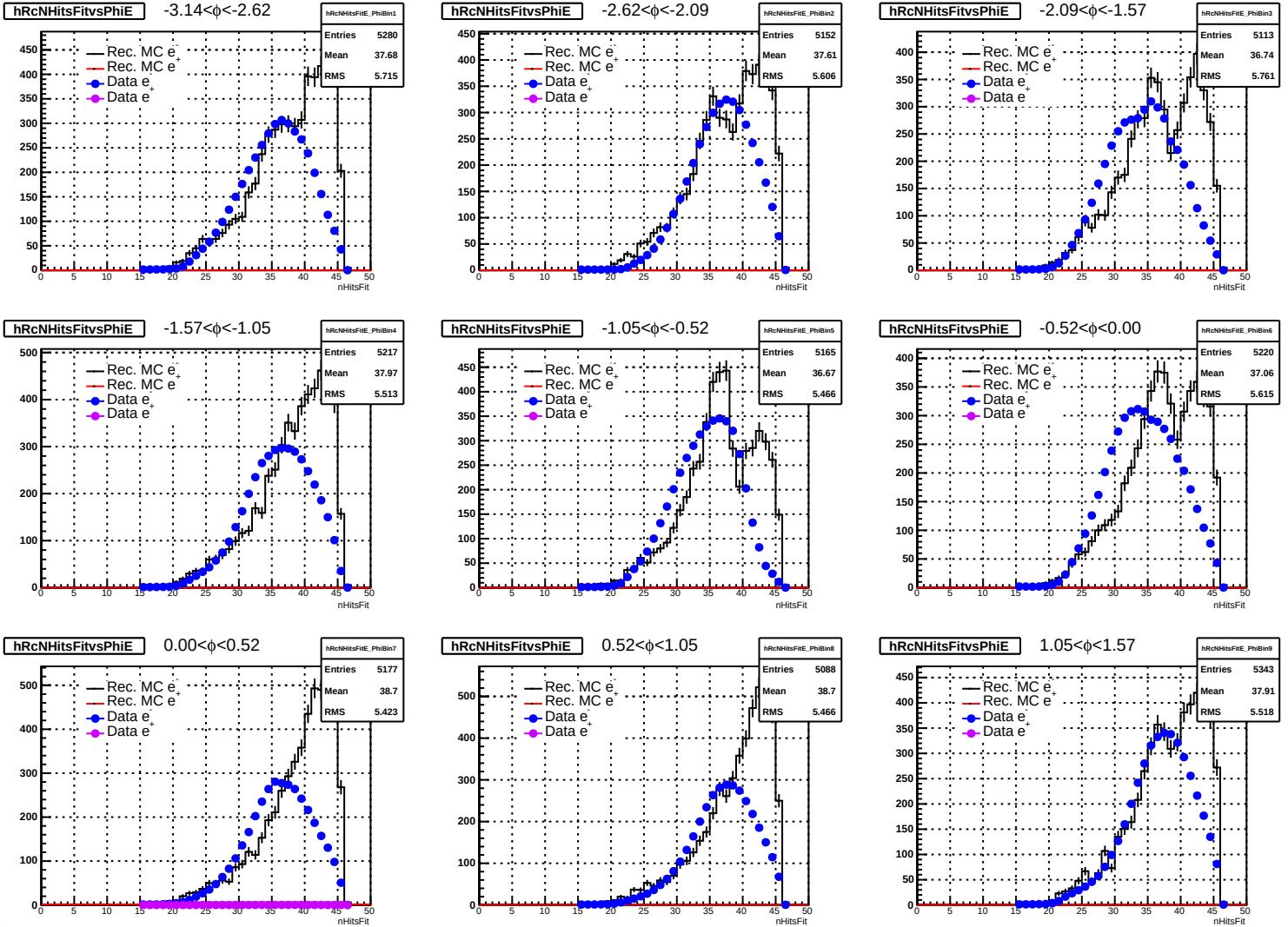
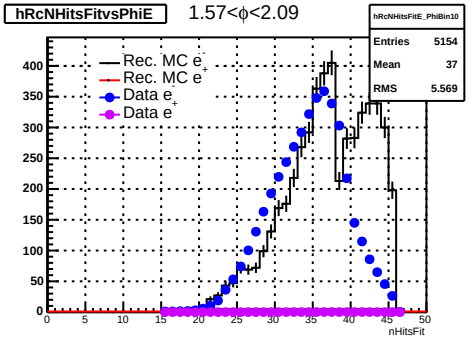
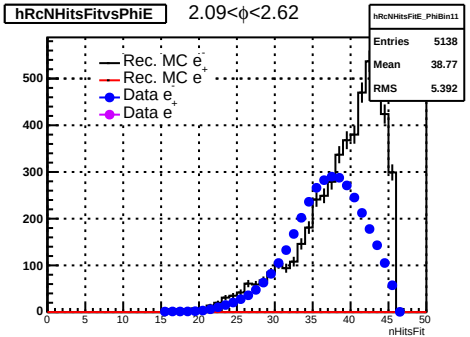

hRcNHitsFitvsPhiE
hRcNHitsFitvsPhiE
Entries 62192
Mean x −0.008593
Mean y 37.75
RMS x 1.815
RMS y 5.608
Rec. MC e
hRcNHitsFitvsPhiP
hRcNHitsFitvsPhiP
Entries 4
Mean x 1.34
Mean y 40
RMS x 1.157
RMS y 3.202
Rec. MC e
hDataNHitsFitvsPhiE
hDataNHitsFitvsPhiE
Entries 2.376449e+07
Mean x 0.04504
Mean y 35.76
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

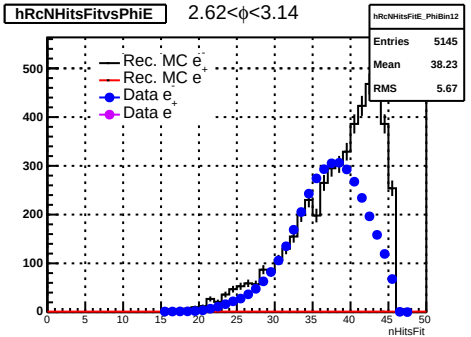

hDataPiNHitsFitvsPhiM
hDataPiNHitsFitvsPhiM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsFit
ϕ


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


hRcNHitsFitvsPhiE
-3.14<ϕ<-2.62
hRcNHitsFitE_PhiBin1
Entries 5280
Mean 37.68
RMS 5.715
hRcNHitsFitvsPhiE
-2.62<ϕ<-2.09
hRcNHitsFitE_PhiBin2
Entries 5152
Mean 37.61
RMS 5.606
hRcNHitsFitvsPhiE
-2.09<ϕ<-1.57
hRcNHitsFitE_PhiBin3
Entries 5113
Mean 36.74
RMS 5.761
hRcNHitsFitvsPhiE
-1.57<ϕ<-1.05
hRcNHitsFitE_PhiBin4
Entries 5217
Mean 37.97
RMS 5.513
hRcNHitsFitvsPhiE
-1.05<ϕ<-0.52
hRcNHitsFitE_PhiBin5
Entries 5165
Mean 36.67
RMS 5.466
hRcNHitsFitvsPhiE
-0.52<ϕ<0.00
hRcNHitsFitE_PhiBin6
Entries 5220
Mean 37.06
RMS 5.615
hRcNHitsFitvsPhiE
0.00<ϕ<0.52
hRcNHitsFitE_PhiBin7
Entries 5177
Mean 38.7
RMS 5.423
hRcNHitsFitvsPhiE
0.52<ϕ<1.05
hRcNHitsFitE_PhiBin8
Entries 5088
Mean 38.7
RMS 5.466
hRcNHitsFitvsPhiE
1.05<ϕ<1.57
hRcNHitsFitE_PhiBin9
Entries 5343
Mean 37.91
RMS 5.518
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit







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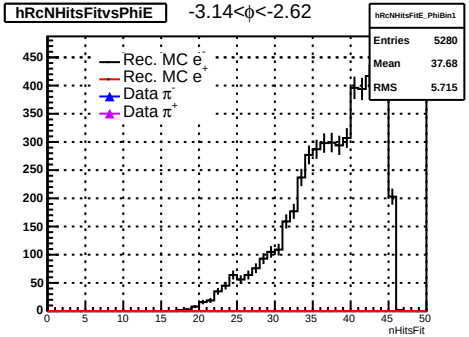
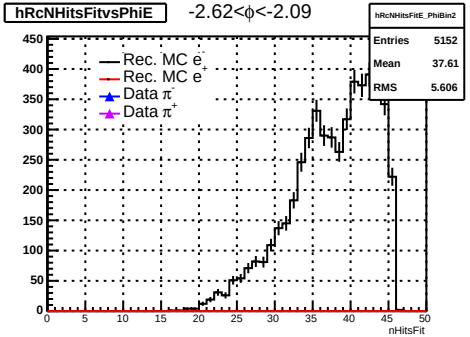
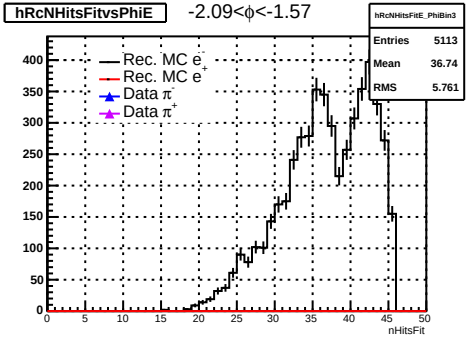
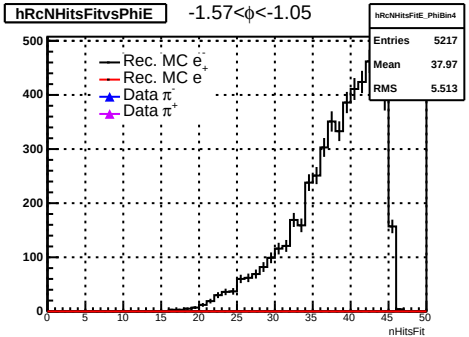
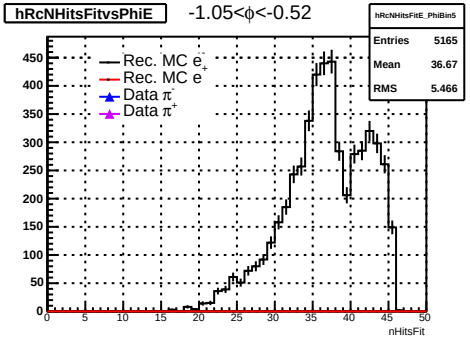
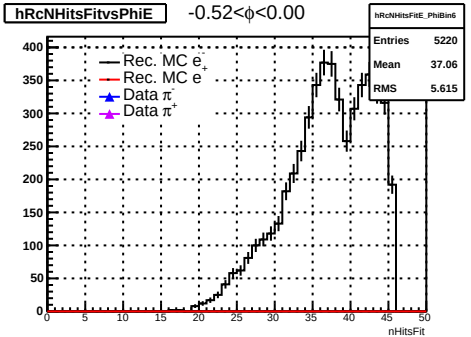

hRcNHitsFitvsPhiE
-3.14<ϕ<-2.62
hRcNHitsFitE_PhiBin1
Entries 5280
Mean 37.68
RMS 5.715
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

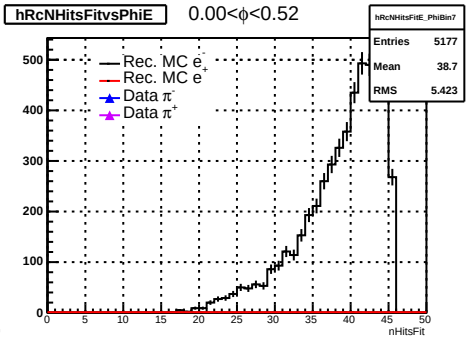

hRcNHitsFitvsPhiE
-2.62<ϕ<-2.09
hRcNHitsFitE_PhiBin2
Entries 5152
Mean 37.61
RMS 5.606
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

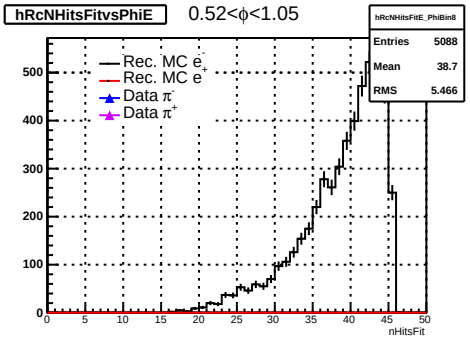

hRcNHitsFitvsPhiE
-2.09<ϕ<-1.57
hRcNHitsFitE_PhiBin3
Entries 5113
Mean 36.74
RMS 5.761
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

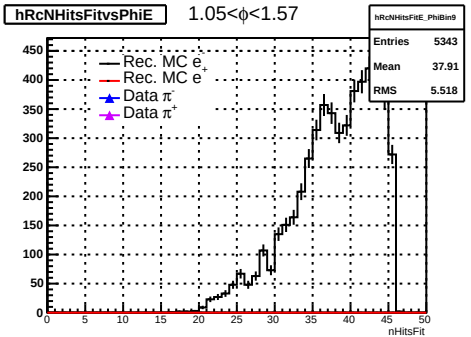

hRcNHitsFitvsPhiE
-1.57<ϕ<-1.05
hRcNHitsFitE_PhiBin4
Entries 5217
Mean 37.97
RMS 5.513
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

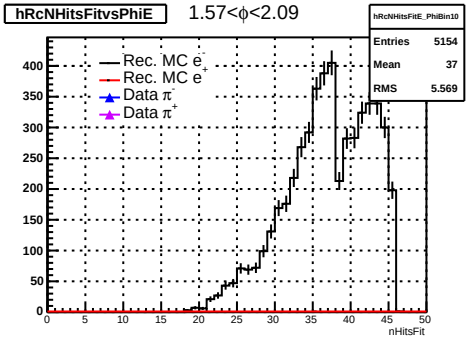

hRcNHitsFitvsPhiE
-1.05<ϕ<-0.52
hRcNHitsFitE_PhiBin5
Entries 5165
Mean 36.67
RMS 5.466
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

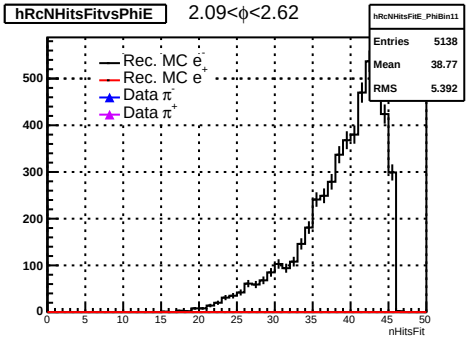

hRcNHitsFitvsPhiE
-0.52<ϕ<0.00
hRcNHitsFitE_PhiBin6
Entries 5220
Mean 37.06
RMS 5.615
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit

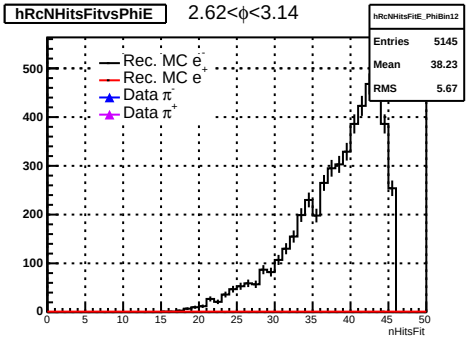

hRcNHitsFitvsPhiE
0.00<ϕ<0.52
hRcNHitsFitE_PhiBin7
Entries 5177
Mean 38.7
RMS 5.423
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPhiE
0.52<ϕ<1.05
hRcNHitsFitE_PhiBin8
Entries 5088
Mean 38.7
RMS 5.466
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit


hRcNHitsFitvsPhiE
1.05<ϕ<1.57
hRcNHitsFitE_PhiBin9
Entries 5343
Mean 37.91
RMS 5.518
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsFit







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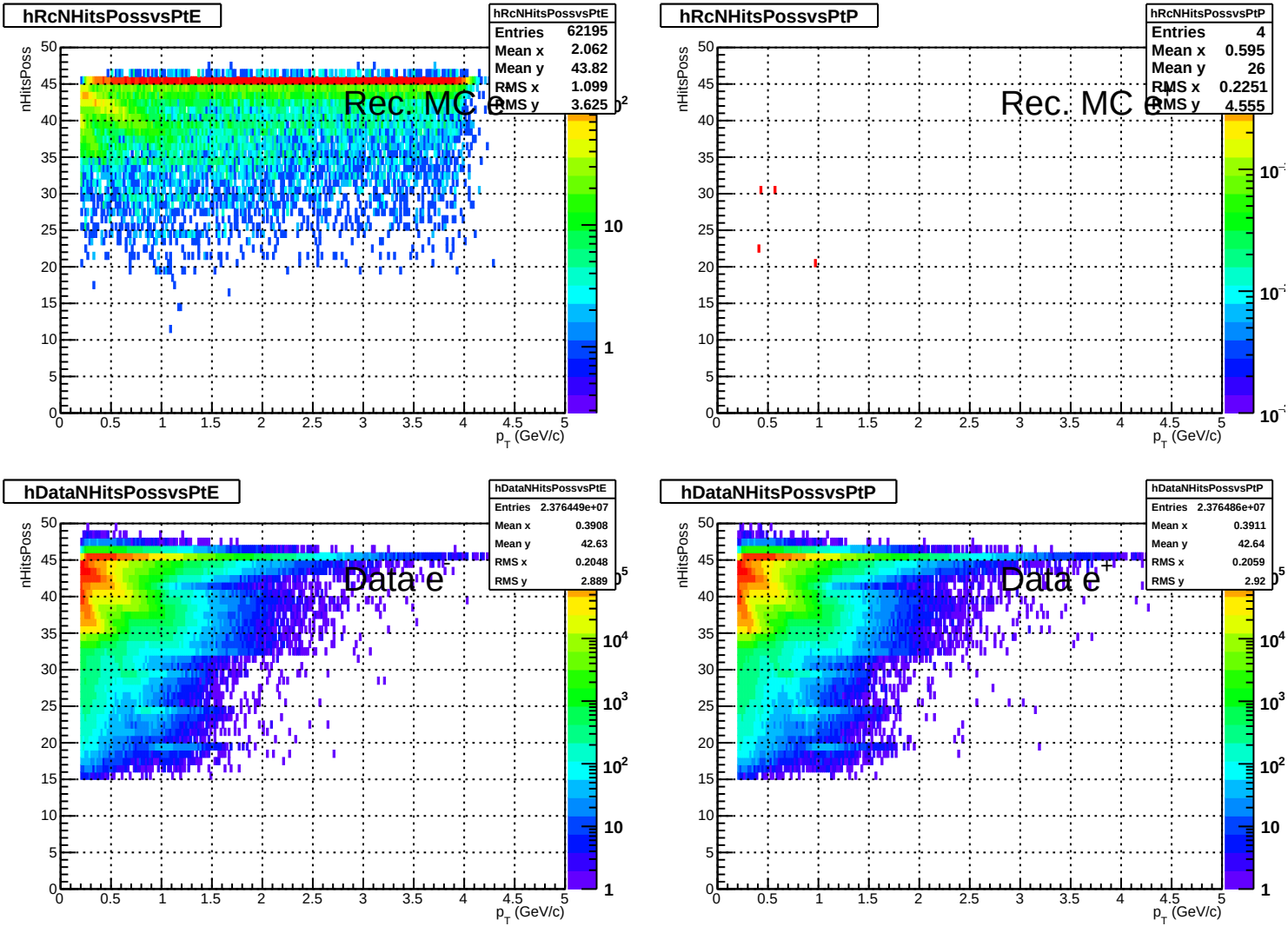
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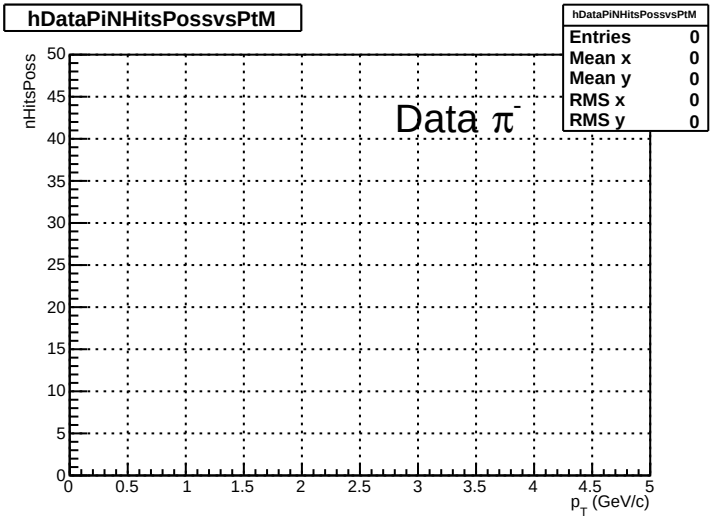
Entries 62195
Mean x 2.062
Mean y 43.82
RMS x 1.099
RMS y 3.625
Rec. MC e
nHitsPoss
p_T (GeV/c)
hRcNHitsPossvsPtP
hRcNHitsPossvsPtP
Entries 4
Mean x 0.595
Mean y 26
RMS x 0.2251
RMS y 4.555
Rec. MC e
nHitsPoss
p_T (GeV/c)
hDataNHitsPossvsPtE
hDataNHitsPossvsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 42.63
RMS x 0.2048
RMS y 2.889
Data e
nHitsPoss
p_T (GeV/c)
hDataNHitsPossvsPtP
hDataNHitsPossvsPtP
Entries 2.376486e+07
Mean x 0.3911
Mean y 42.64
RMS x 0.2059
RMS y 2.92
Data e
nHitsPoss
p_T (GeV/c)


hDataPiNHitsPossvsPtM
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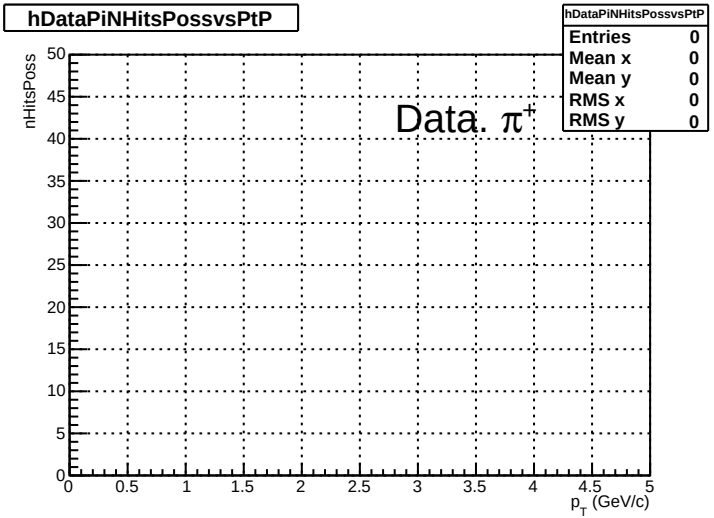
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsPoss
p_T (GeV/c)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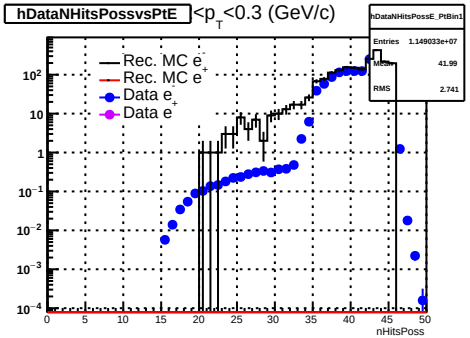
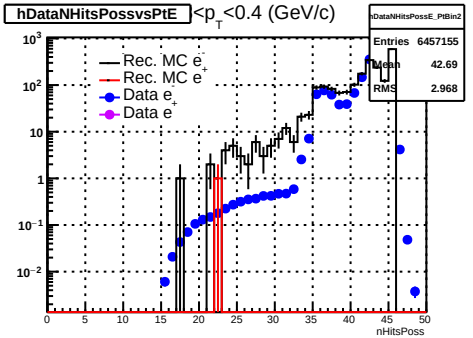
hDataPiNHitsPossvsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsPoss
p_T (GeV/c)


hDataNHitsPossvsPtE
<p_T<0.3 (GeV/c)
hDataNHitsPossE_PtBin1
Entries 1.149033e+07
Mean 41.99
RMS 2.741
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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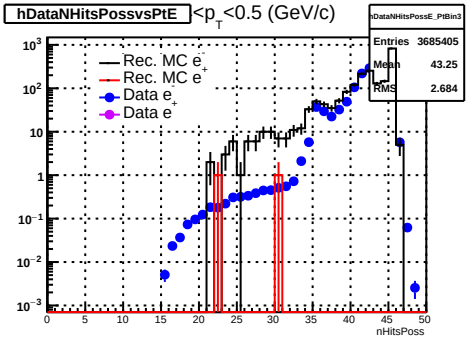
<p_T<0.4 (GeV/c)
hDataNHitsPossE_PtBin2
Entries 6457155
Mean 42.69
RMS 2.968
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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<p_T<0.5 (GeV/c)
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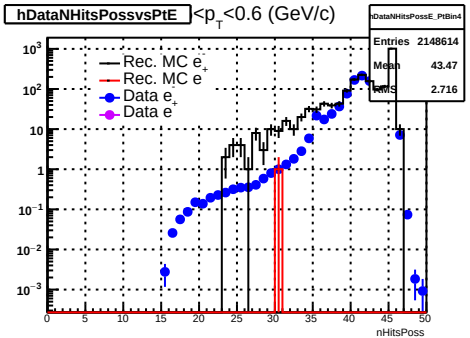
Entries 3685405
Mean 43.25
RMS 2.684
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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<p_T<0.6 (GeV/c)
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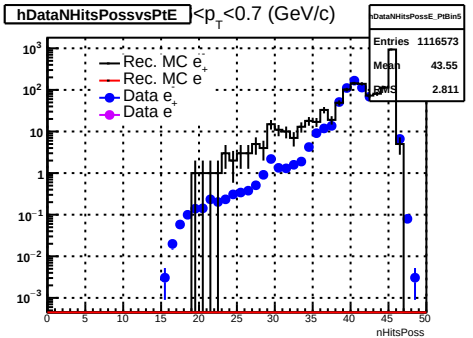
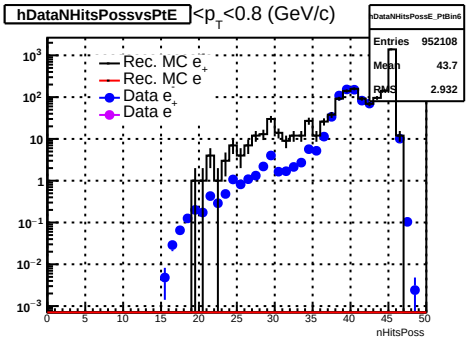
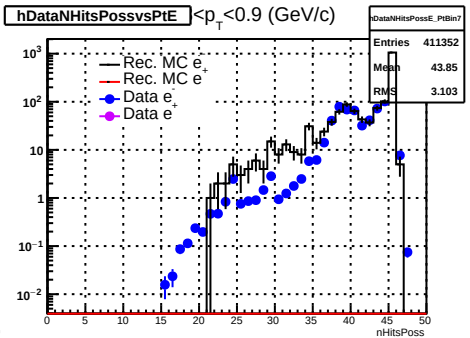
Entries 2148614
Mean 43.47
RMS 2.716
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss


hDataNHitsPossvsPtE
<p_T<0.7 (GeV/c)
hDataNHitsPossE_PtBin5
Entries 1116573
Mean 43.55
RMS 2.811
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss


hDataNHitsPossvsPtE
<p_T<0.8 (GeV/c)
hDataNHitsPossE_PtBin6
Entries 952108
Mean 43.7
RMS 2.932
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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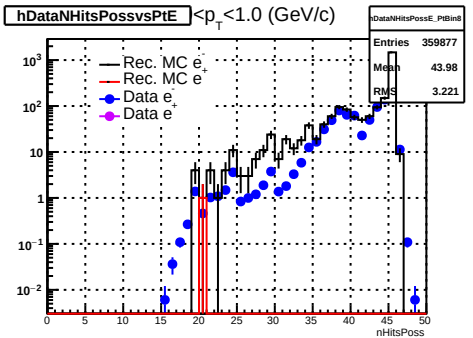
Entries 411352
Mean 43.85
RMS 3.103
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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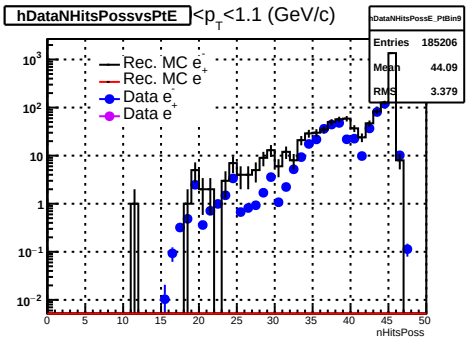
Entries 359877
Mean 43.98
RMS 3.221
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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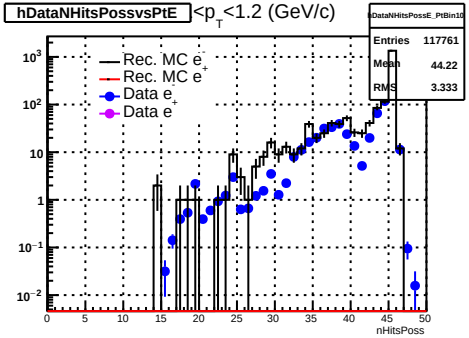
Entries 185206
Mean 44.09
RMS 3.379
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 117761
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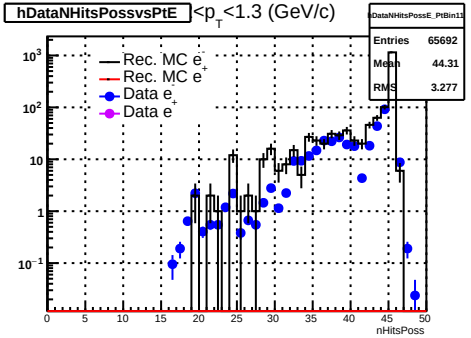
RMS 3.333
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 65692
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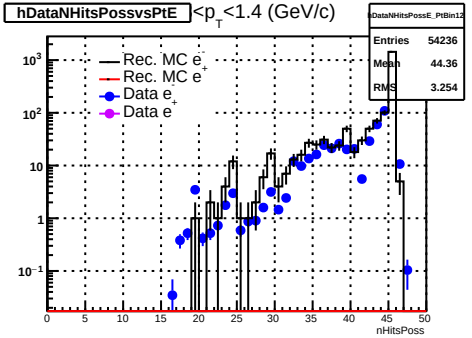
RMS 3.277
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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RMS 3.254
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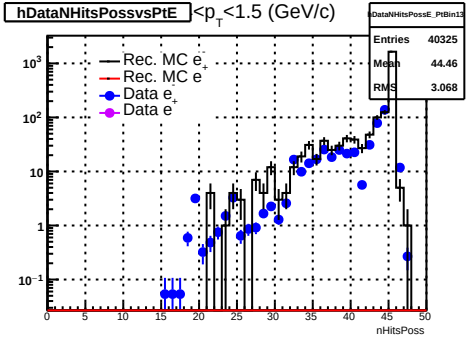
Rec. MC e-
Data e+
Data e-
nHitsPoss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<p_T<1.5 (GeV/c)
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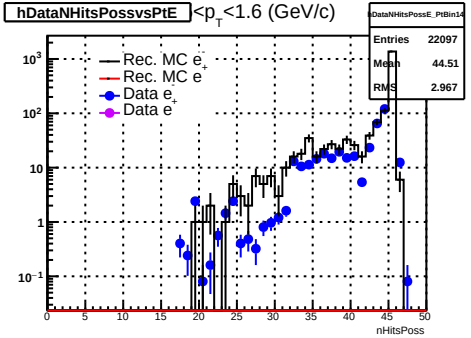
Entries 40325
Mean 44.46
RMS 3.068
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 22097
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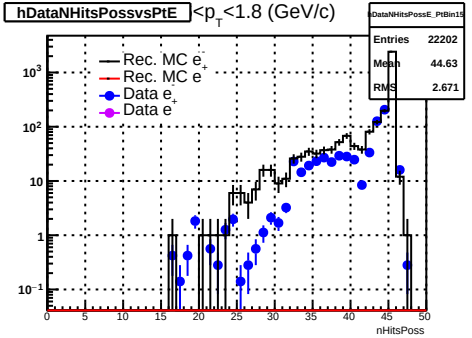
RMS 2.967
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 22202
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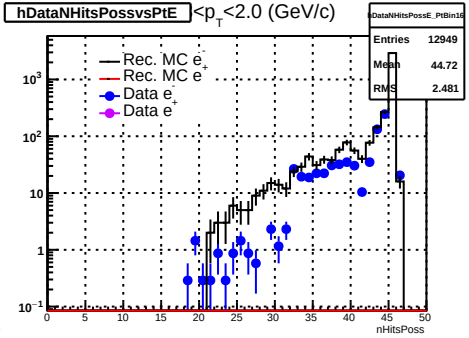
RMS 2.671
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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Entries 12949
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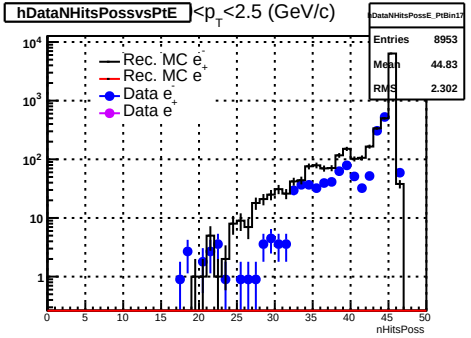
RMS 2.481
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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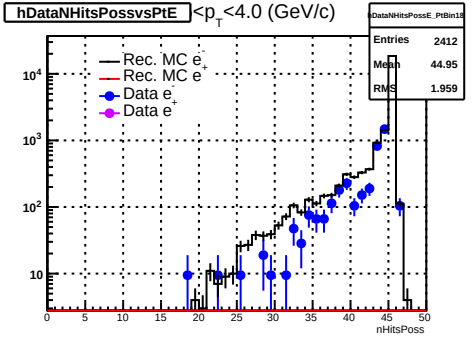
RMS 2.302
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss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<p_T<4.0 (GeV/c)
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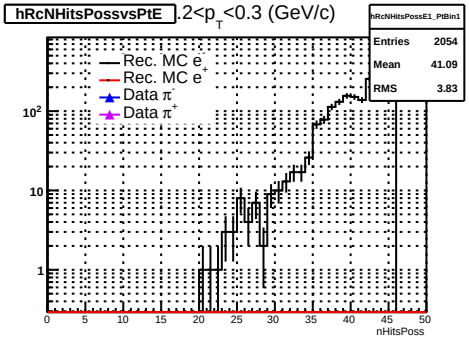
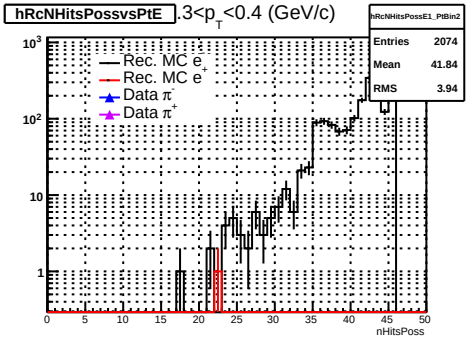
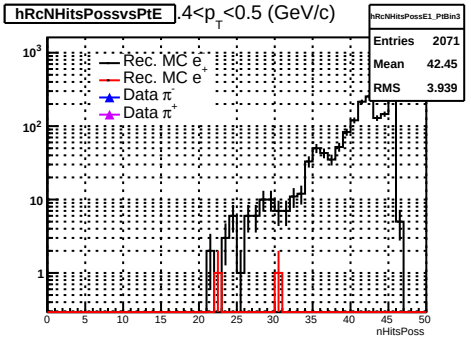
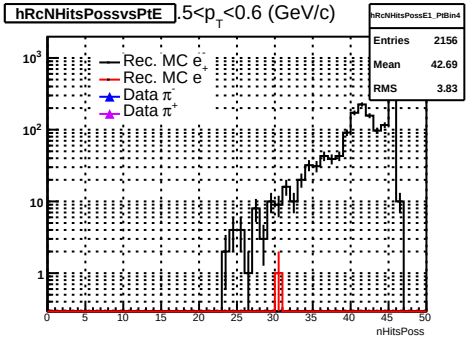
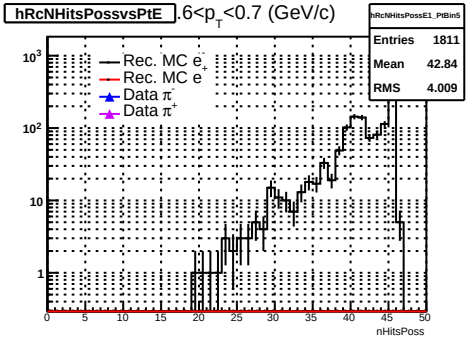
Entries 2412
Mean 44.95
RMS 1.959
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss

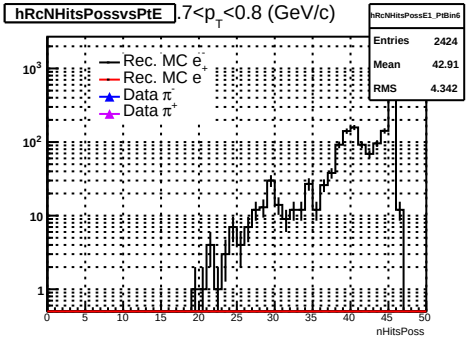

hRcNHitsPossvsPtE .2<p_T<0.3 (GeV/c)
hRcNHitsPossE1_PtBin1
Entries 2054
Mean 41.09
RMS 3.83
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

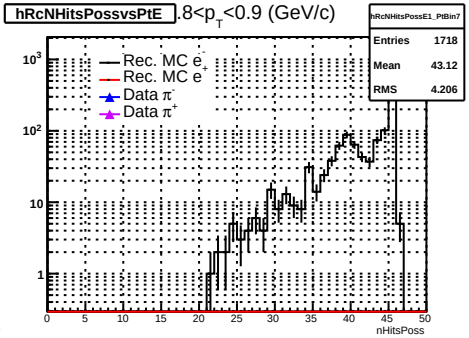

hRcNHitsPossvsPtE .3<p_T<0.4 (GeV/c)
hRcNHitsPossE1_PtBin2
Entries 2074
Mean 41.84
RMS 3.94
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

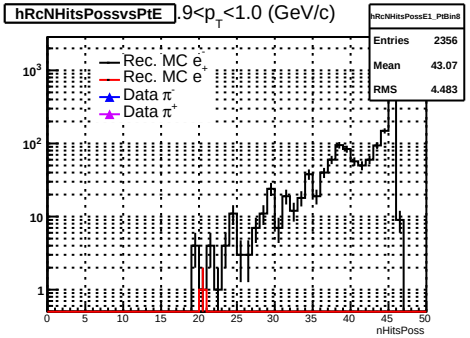

hRcNHitsPossvsPtE .4<p_T<0.5 (GeV/c)
hRcNHitsPossE1_PtBin3
Entries 2071
Mean 42.45
RMS 3.939
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

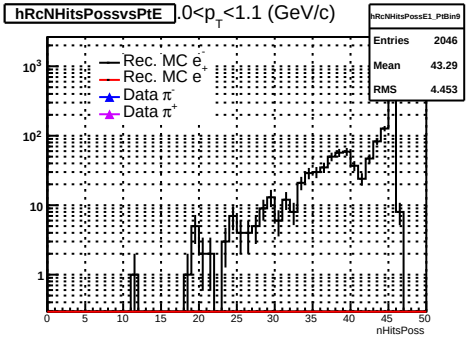

hRcNHitsPossvsPtE .5<p_T<0.6 (GeV/c)
hRcNHitsPossE1_PtBin4
Entries 2156
Mean 42.69
RMS 3.83
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

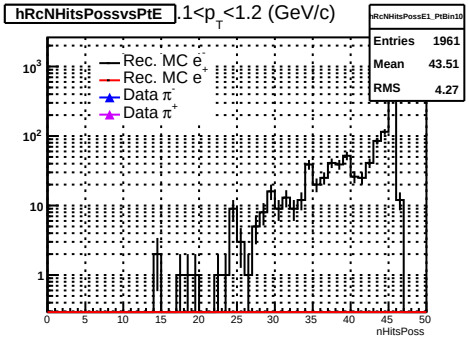

hRcNHitsPossvsPtE .6<p_T<0.7 (GeV/c)
hRcNHitsPossE1_PtBin5
Entries 1811
Mean 42.84
RMS 4.009
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

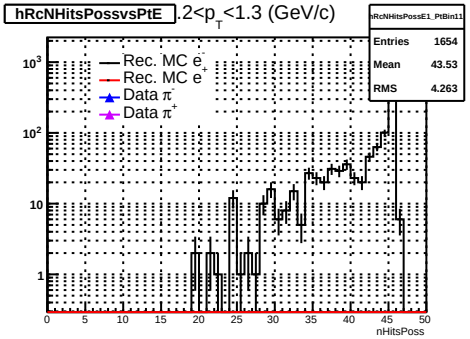

hRcNHitsPossvsPtE .7<p_T<0.8 (GeV/c)
hRcNHitsPossE1_PtBin6
Entries 2424
Mean 42.91
RMS 4.342
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

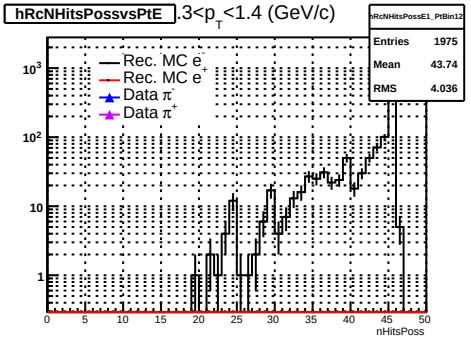

hRcNHitsPossvsPtE .8<p_T<0.9 (GeV/c)
hRcNHitsPossE1_PtBin7
Entries 1718
Mean 43.12
RMS 4.206
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

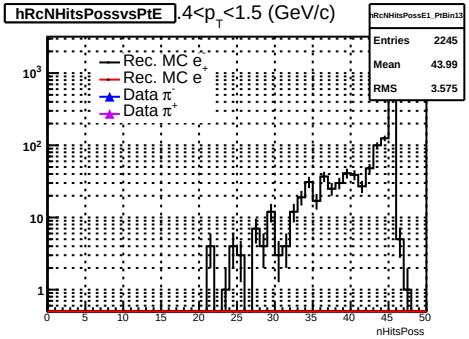

hRcNHitsPossvsPtE .9<p_T<1.0 (GeV/c)
hRcNHitsPossE1_PtBin8
Entries 2356
Mean 43.07
RMS 4.483
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

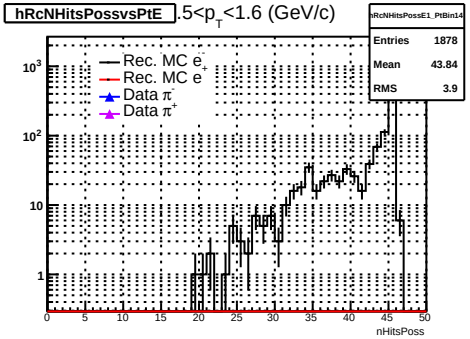

hRcNHitsPossvsPtE .0<p_T<1.1 (GeV/c)
hRcNHitsPossE1_PtBin9
Entries 2046
Mean 43.29
RMS 4.453
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

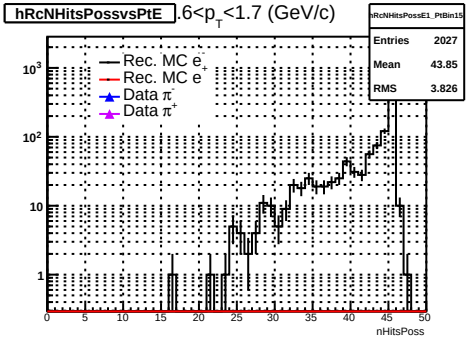

hRcNHitsPossvsPtE .1<p_T<1.2 (GeV/c)
hRcNHitsPossE1_PtBin10
Entries 1961
Mean 43.51
RMS 4.27
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

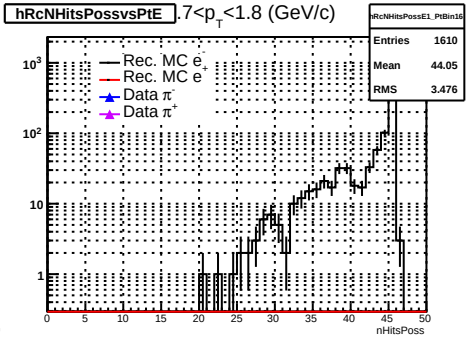

hRcNHitsPossvsPtE .2<p_T<1.3 (GeV/c)
hRcNHitsPossE1_PtBin11
Entries 1654
Mean 43.53
RMS 4.263
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

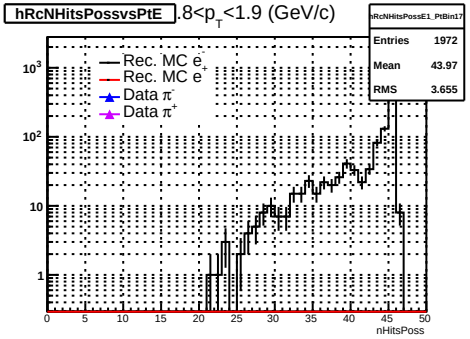

hRcNHitsPossvsPtE .3<p_T<1.4 (GeV/c)
hRcNHitsPossE1_PtBin12
Entries 1975
Mean 43.74
RMS 4.036
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

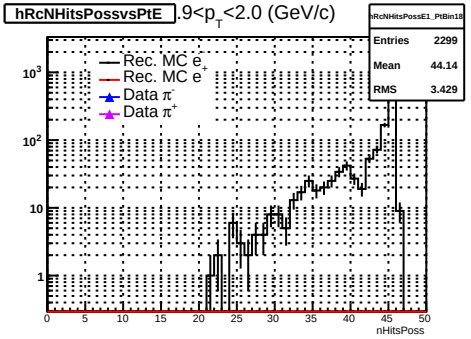

hRcNHitsPossvsPtE .4<p_T<1.5 (GeV/c)
hRcNHitsPossE1_PtBin13
Entries 2245
Mean 43.99
RMS 3.575
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

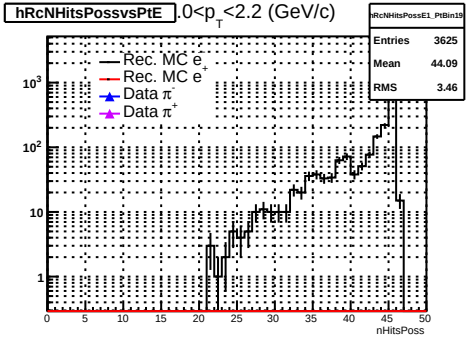

hRcNHitsPossvsPtE .5<p_T<1.6 (GeV/c)
hRcNHitsPossE1_PtBin14
Entries 1878
Mean 43.84
RMS 3.9
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

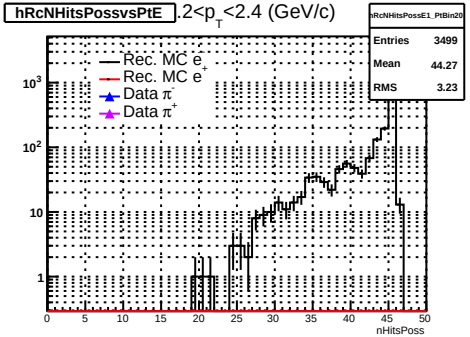

hRcNHitsPossvsPtE .6<p_T<1.7 (GeV/c)
hRcNHitsPossE1_PtBin15
Entries 2027
Mean 43.85
RMS 3.826
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

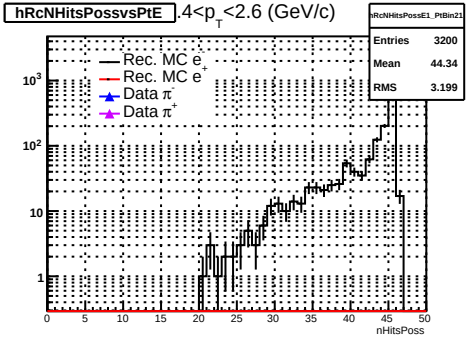

hRcNHitsPossvsPtE .7<p_T<1.8 (GeV/c)
hRcNHitsPossE1_PtBin16
Entries 1610
Mean 44.05
RMS 3.476
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

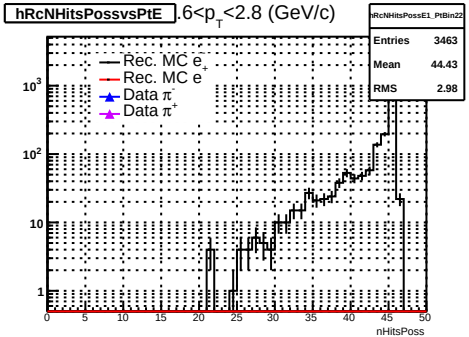

hRcNHitsPossvsPtE .8<p_T<1.9 (GeV/c)
hRcNHitsPossE1_PtBin17
Entries 1972
Mean 43.97
RMS 3.655
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

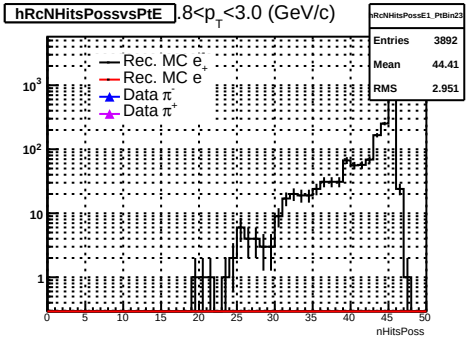

hRcNHitsPossvsPtE .9<p_T<2.0 (GeV/c)
hRcNHitsPossE1_PtBin18
Entries 2299
Mean 44.14
RMS 3.429
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

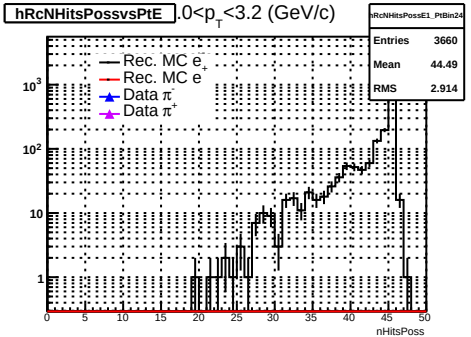

hRcNHitsPossvsPtE .0<p_T<2.2 (GeV/c)
hRcNHitsPossE1_PtBin19
Entries 3625
Mean 44.09
RMS 3.46
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .2<p_T<2.4 (GeV/c)
hRcNHitsPossE1_PtBin20
Entries 3499
Mean 44.27
RMS 3.23
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .4<p_T<2.6 (GeV/c)
hRcNHitsPossE1_PtBin21
Entries 3200
Mean 44.34
RMS 3.199
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .6<p_T<2.8 (GeV/c)
hRcNHitsPossE1_PtBin22
Entries 3463
Mean 44.43
RMS 2.98
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .8<p_T<3.0 (GeV/c)
hRcNHitsPossE1_PtBin23
Entries 3892
Mean 44.41
RMS 2.951
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss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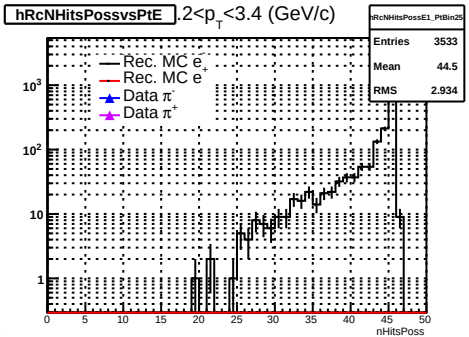
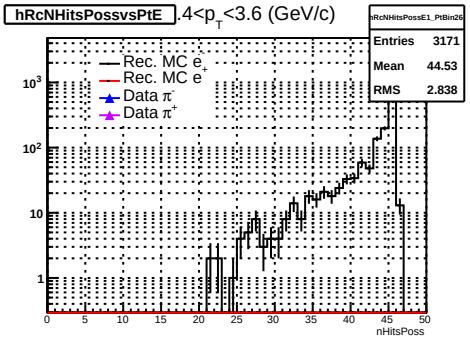
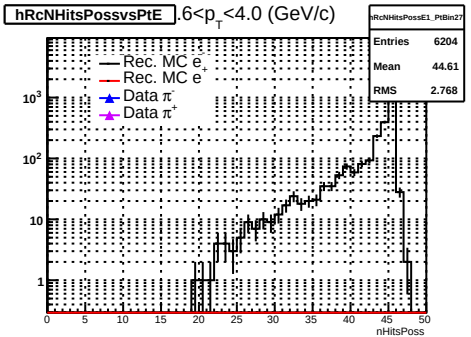
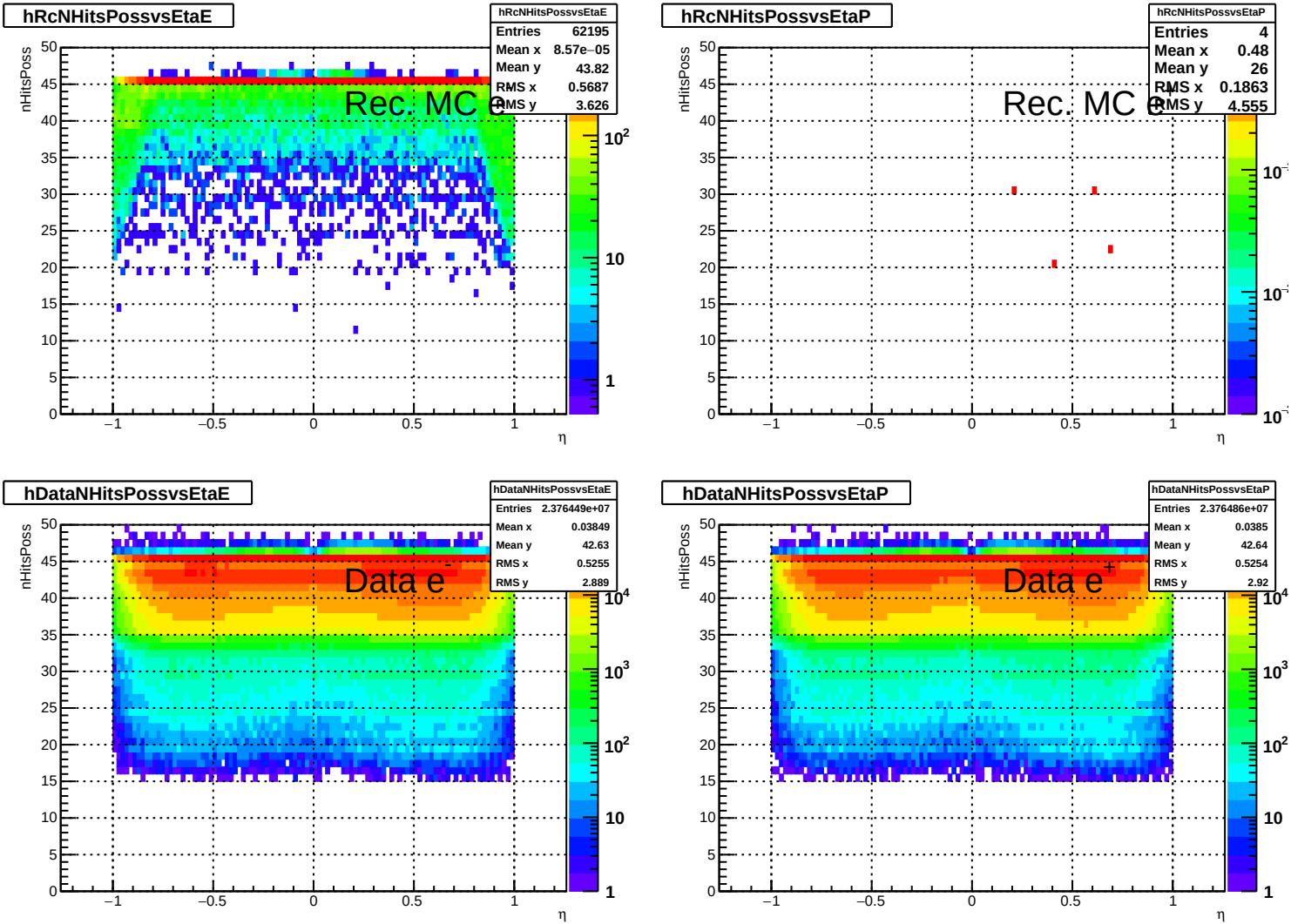
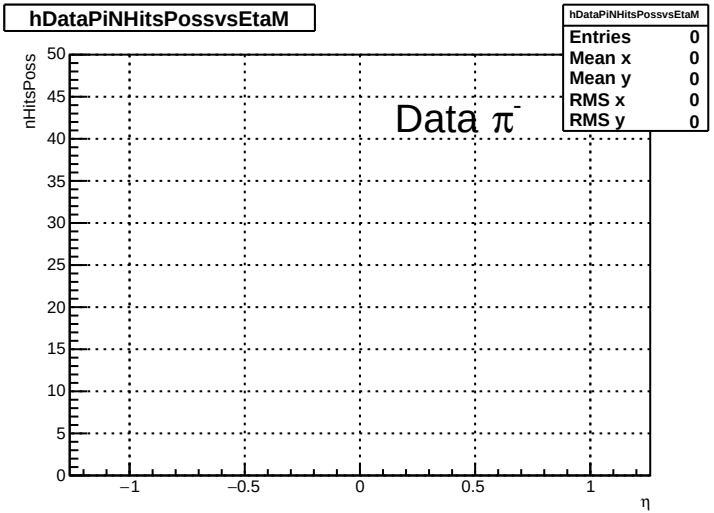
hRcNHitsPossE1_PtBin24
Entries 3660
Mean 44.49
RMS 2.914
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

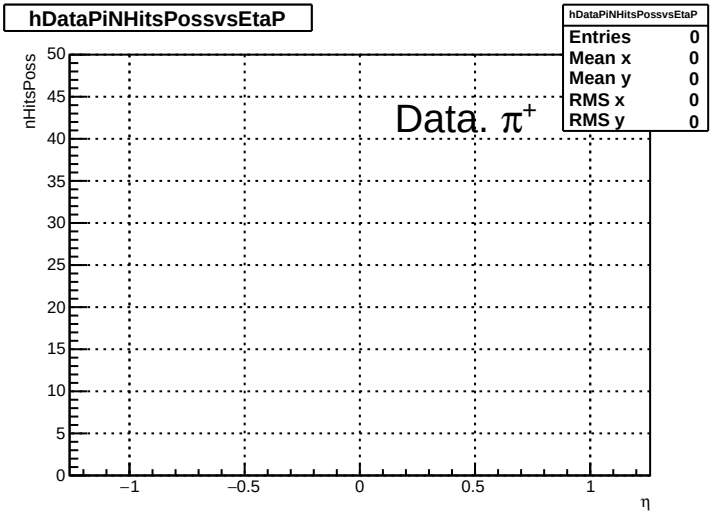

hRcNHitsPossvsPtE .2<p_T<3.4 (GeV/c)
hRcNHitsPossE1_PtBin25
Entries 3533
Mean 44.5
RMS 2.934
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

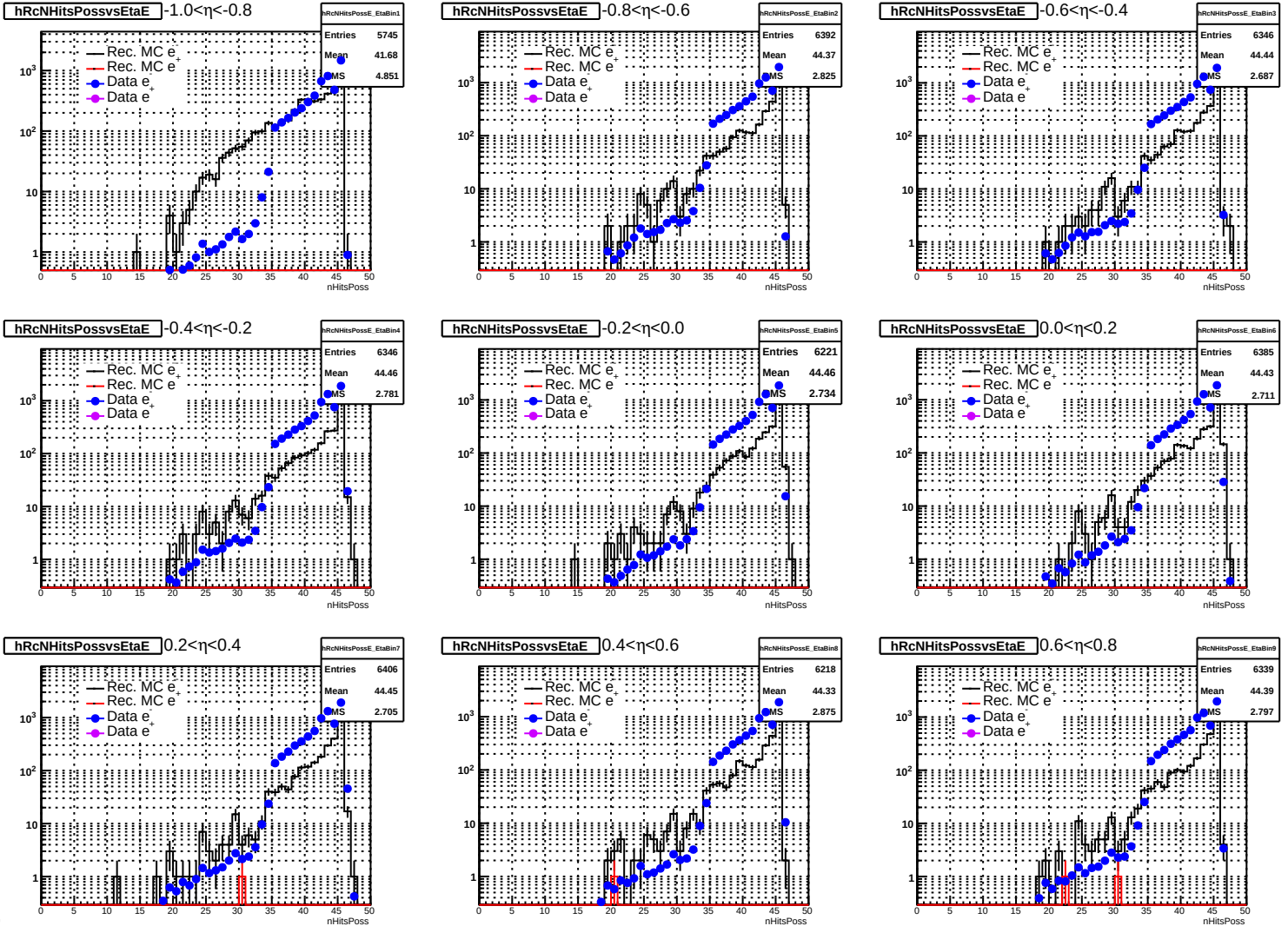

hRcNHitsPossvsPtE .4<p_T<3.6 (GeV/c)
hRcNHitsPossE1_PtBin26
Entries 3171
Mean 44.53
RMS 2.838
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

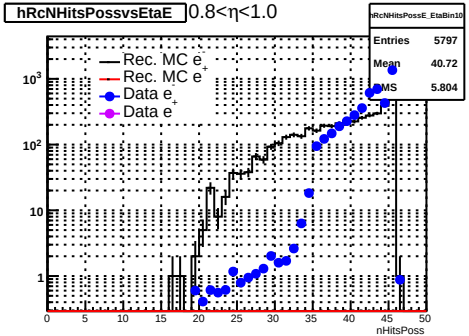

hRcNHitsPossvsPtE .6<p_T<4.0 (GeV/c)
hRcNHitsPossE1_PtBin27
Entries 6204
Mean 44.61
RMS 2.768
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsEtaE
hRcNHitsPossvsEtaE
Entries 62195
Mean x 8.57e−05
Mean y 43.82
RMS x 0.5687
RMS y 3.626
Rec. MC e
nHitsPoss
η
hRcNHitsPossvsEtaP
hRcNHitsPossvsEtaP
Entries 4
Mean x 0.48
Mean y 26
RMS x 0.1863
RMS y 4.555
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
hDataNHitsPossvsEtaP
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 5745
Mean 41.68
RMS 4.851
hRcNHitsPossvsEtaE -0.8<η<-0.6
hRcNHitsPossE_EtaBin2
Entries 6392
Mean 44.37
RMS 2.825
hRcNHitsPossvsEtaE -0.6<η<-0.4
hRcNHitsPossE_EtaBin3
Entries 6346
Mean 44.44
RMS 2.687
hRcNHitsPossvsEtaE -0.4<η<-0.2
hRcNHitsPossE_EtaBin4
Entries 6346
Mean 44.46
RMS 2.781
hRcNHitsPossvsEtaE -0.2<η<0.0
hRcNHitsPossE_EtaBin5
Entries 6221
Mean 44.46
RMS 2.734
hRcNHitsPossvsEtaE 0.0<η<0.2
hRcNHitsPossE_EtaBin6
Entries 6385
Mean 44.43
RMS 2.711
hRcNHitsPossvsEtaE 0.2<η<0.4
hRcNHitsPossE_EtaBin7
Entries 6406
Mean 44.45
RMS 2.705
hRcNHitsPossvsEtaE 0.4<η<0.6
hRcNHitsPossE_EtaBin8
Entries 6218
Mean 44.33
RMS 2.875
hRcNHitsPossvsEtaE 0.6<η<0.8
hRcNHitsPossE_EtaBin9
Entries 6339
Mean 44.39
RMS 2.797
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss



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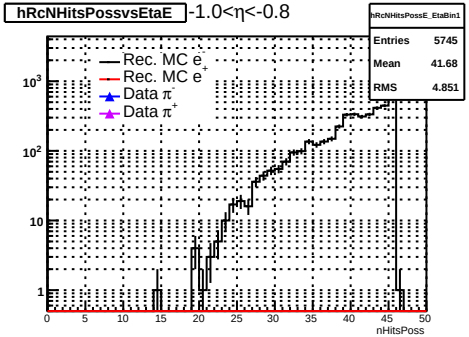
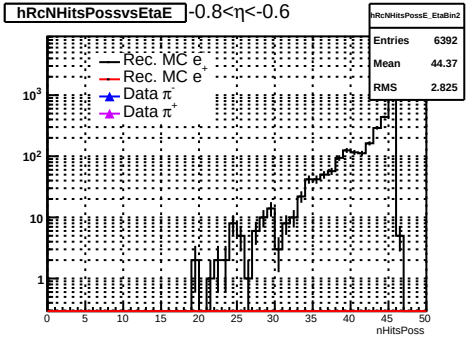
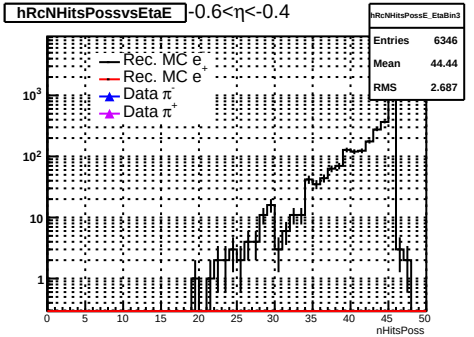
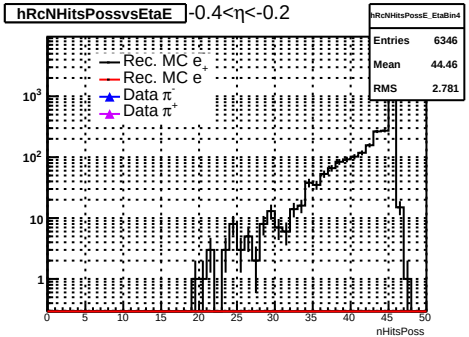
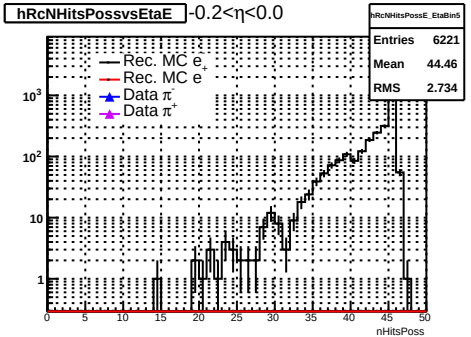
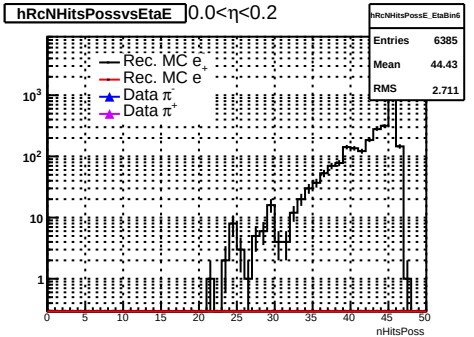

hRcNHitsPossvsEtaE -1.0<η<-0.8
hRcNHitsPossE_EtaBin1
Entries 5745
Mean 41.68
RMS 4.851
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

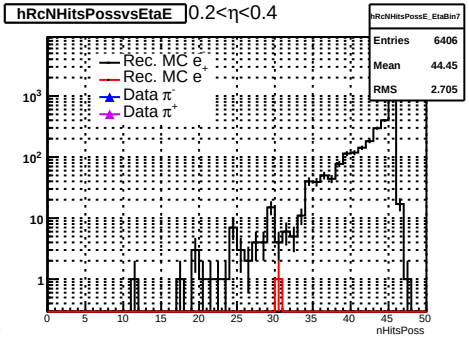

hRcNHitsPossvsEtaE -0.8<η<-0.6
hRcNHitsPossE_EtaBin2
Entries 6392
Mean 44.37
RMS 2.825
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

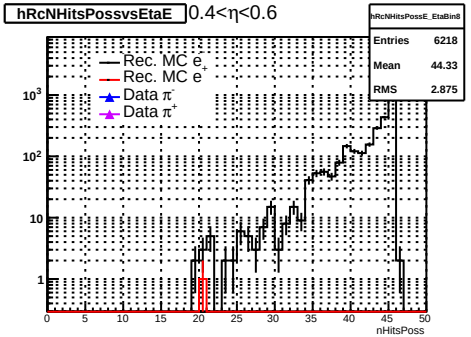

hRcNHitsPossvsEtaE -0.6<η<-0.4
hRcNHitsPossE_EtaBin3
Entries 6346
Mean 44.44
RMS 2.687
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

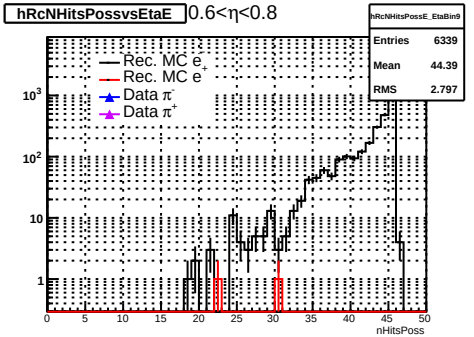

hRcNHitsPossvsEtaE -0.4<η<-0.2
hRcNHitsPossE_EtaBin4
Entries 6346
Mean 44.46
RMS 2.781
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

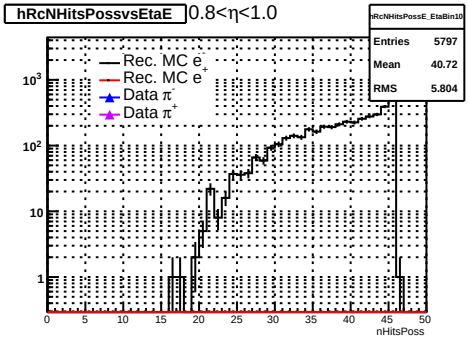

hRcNHitsPossvsEtaE -0.2<η<0.0
hRcNHitsPossE_EtaBin5
Entries 6221
Mean 44.46
RMS 2.734
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsEtaE 0.0<η<0.2
hRcNHitsPossE_EtaBin6
Entries 6385
Mean 44.43
RMS 2.711
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsEtaE 0.2<η<0.4
hRcNHitsPossE_EtaBin7
Entries 6406
Mean 44.45
RMS 2.705
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsEtaE 0.4<η<0.6
hRcNHitsPossE_EtaBin8
Entries 6218
Mean 44.33
RMS 2.875
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsEtaE 0.6<η<0.8
hRcNHitsPossE_EtaBin9
Entries 6339
Mean 44.39
RMS 2.797
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss



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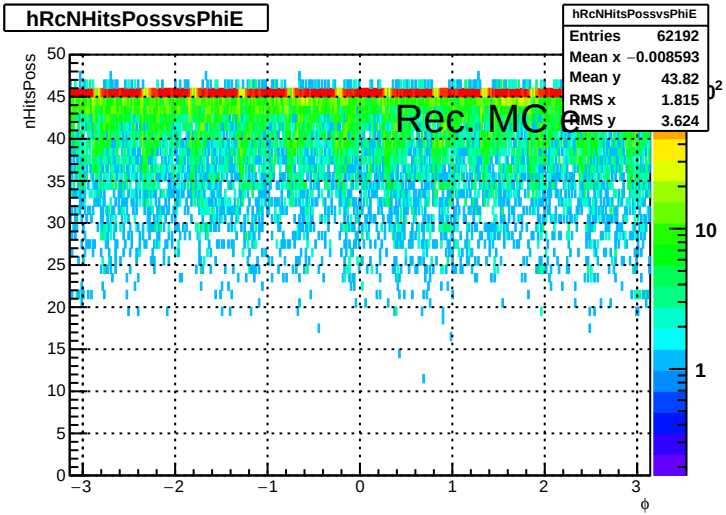
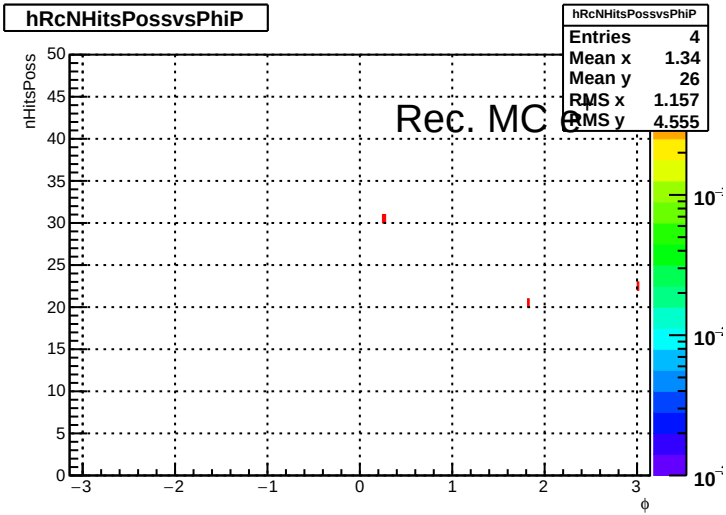
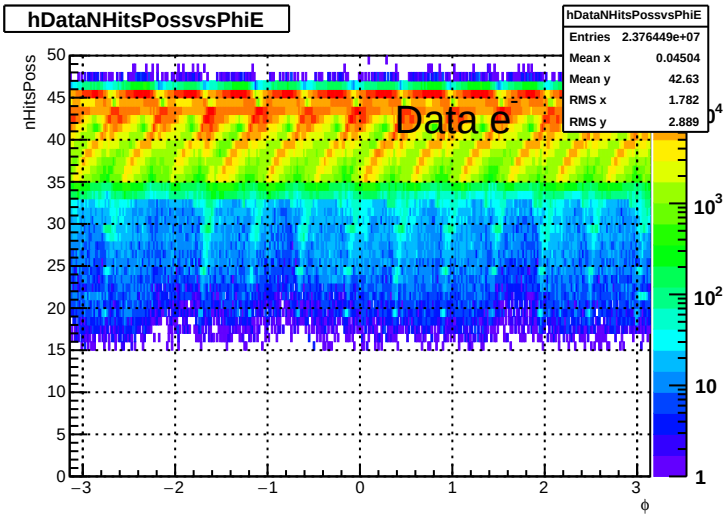
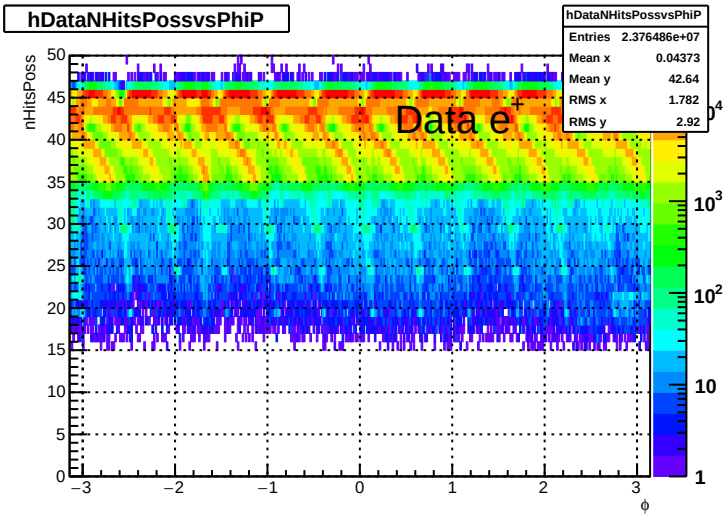
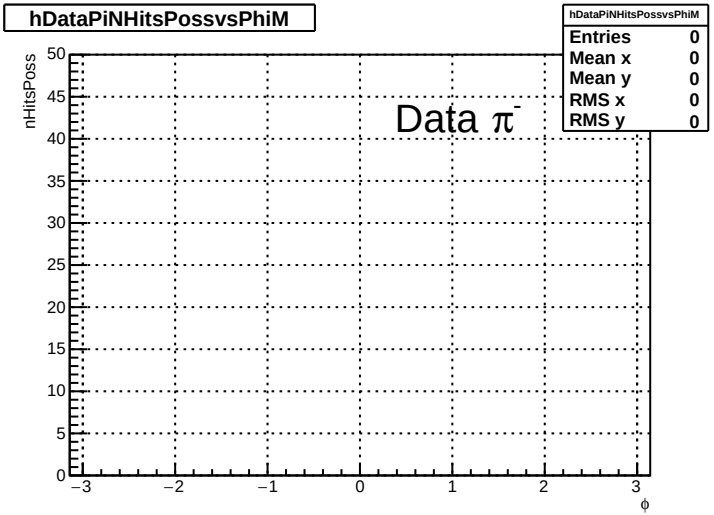
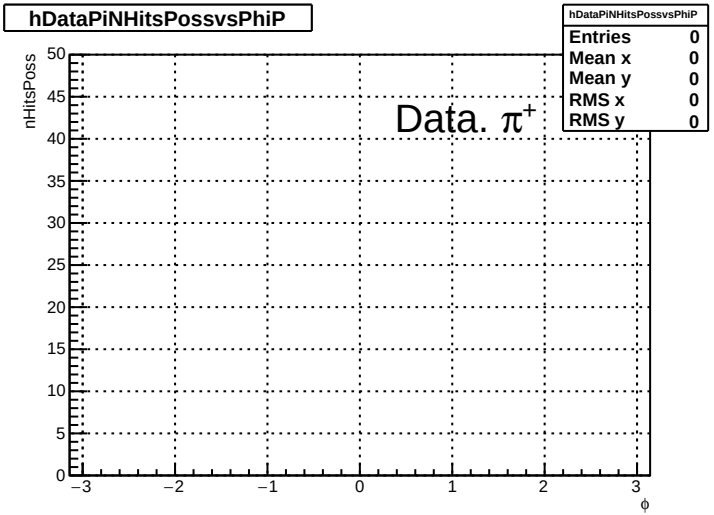

hRcNHitsPossvsPhiE
hRcNHitsPossvsPhiE
Entries 62192
Mean x −0.008593
Mean y 43.82
RMS x 1.815
RMS y 3.624
Rec. MC e
nHitsPoss
ϕ

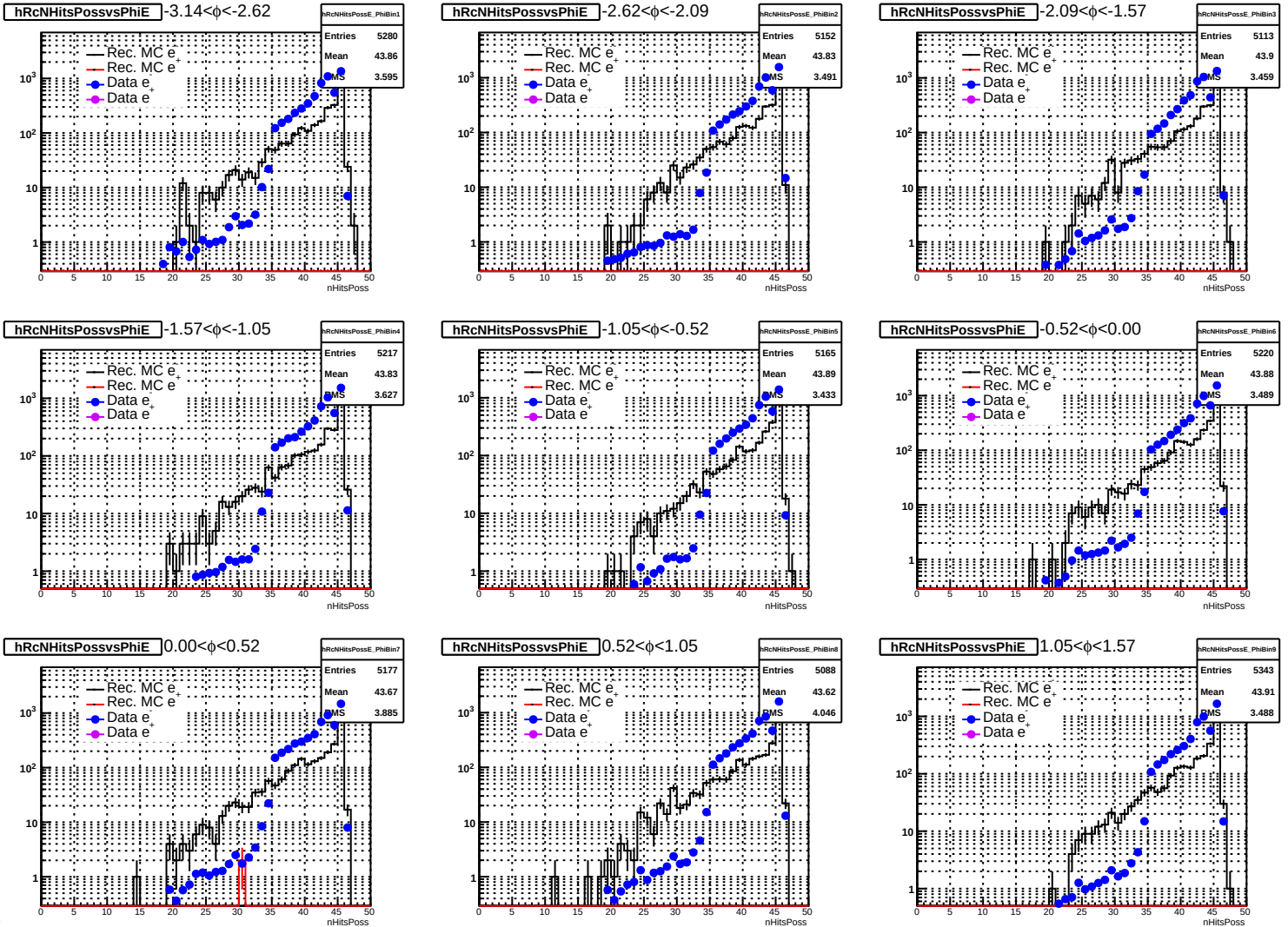

hRcNHitsPossvsPhiP
hRcNHitsPossvsPhiP
Entries 4
Mean x 1.34
Mean y 26
RMS x 1.157
RMS y 4.555
Rec. MC e
nHitsPoss
ϕ

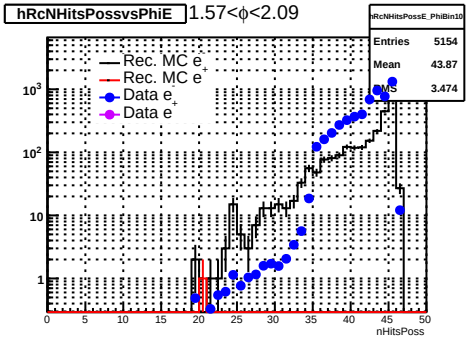

hDataNHitsPossvsPhiE
hDataNHitsPossvsPhiE
Entries 2.376449e+07
Mean x 0.04504
Mean y 42.63
RMS x 1.782
RMS y 2.889
Data e
nHitsPoss
ϕ

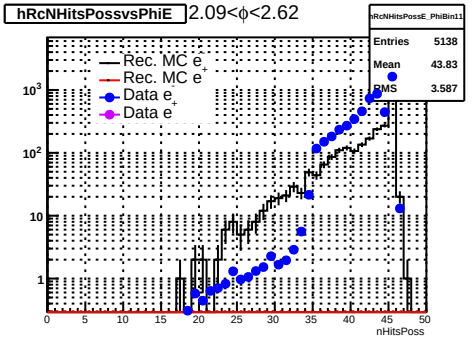

hDataNHitsPossvsPhiP
hDataNHitsPossvsPhiP
Entries 2.376486e+07
Mean x 0.04373
Mean y 42.64
RMS x 1.782
RMS y 2.92
Data e+
nHitsPoss
ϕ

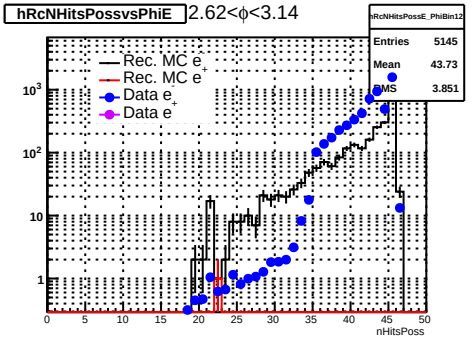

hDataPiNHitsPossvsPhiM
hDataPiNHitsPossvsPhiM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsPoss
ϕ


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


hRcNHitsPossvsPhiE -3.14<ϕ<-2.62
hRcNHitsPossE_PhiBin1
Entries 5280
Mean 43.86
RMS 3.595
hRcNHitsPossvsPhiE -2.62<ϕ<-2.09
hRcNHitsPossE_PhiBin2
Entries 5152
Mean 43.83
RMS 3.491
hRcNHitsPossvsPhiE -2.09<ϕ<-1.57
hRcNHitsPossE_PhiBin3
Entries 5113
Mean 43.9
RMS 3.459
hRcNHitsPossvsPhiE -1.57<ϕ<-1.05
hRcNHitsPossE_PhiBin4
Entries 5217
Mean 43.83
RMS 3.627
hRcNHitsPossvsPhiE -1.05<ϕ<-0.52
hRcNHitsPossE_PhiBin5
Entries 5165
Mean 43.89
RMS 3.433
hRcNHitsPossvsPhiE -0.52<ϕ<0.00
hRcNHitsPossE_PhiBin6
Entries 5220
Mean 43.88
RMS 3.489
hRcNHitsPossvsPhiE 0.00<ϕ<0.52
hRcNHitsPossE_PhiBin7
Entries 5177
Mean 43.67
RMS 3.885
hRcNHitsPossvsPhiE 0.52<ϕ<1.05
hRcNHitsPossE_PhiBin8
Entries 5088
Mean 43.62
RMS 4.046
hRcNHitsPossvsPhiE 1.05<ϕ<1.57
hRcNHitsPossE_PhiBin9
Entries 5343
Mean 43.91
RMS 3.488
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsPoss







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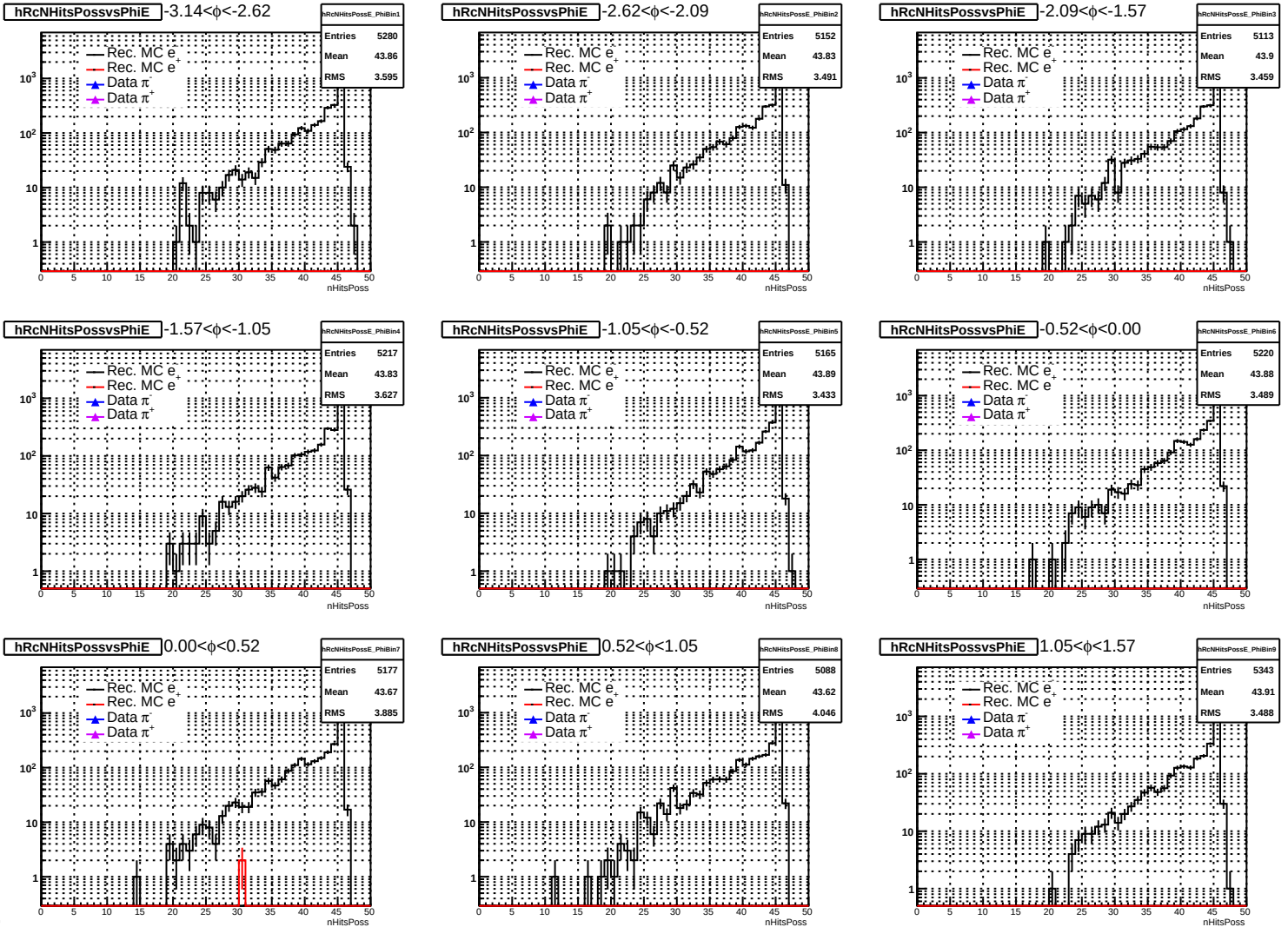
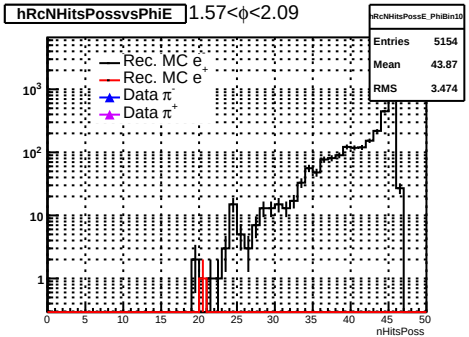
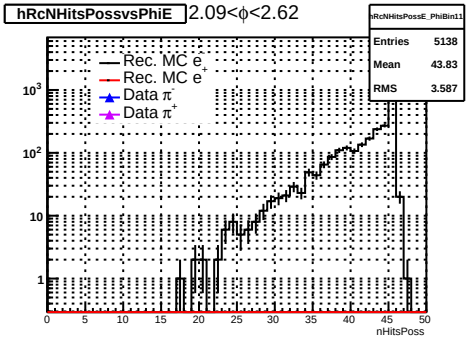
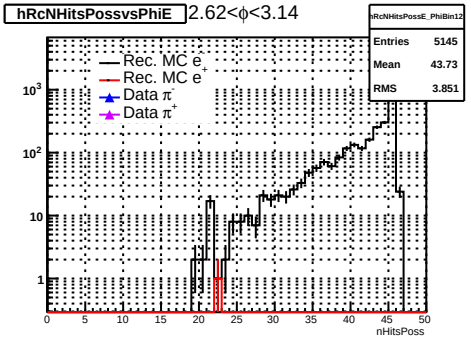

hRcNHitsPossvsPhiE -3.14<ϕ<-2.62
hRcNHitsPossE_PhiBin1
Entries 5280
Mean 43.86
RMS 3.595
hRcNHitsPossvsPhiE -2.62<ϕ<-2.09
hRcNHitsPossE_PhiBin2
Entries 5152
Mean 43.83
RMS 3.491
hRcNHitsPossvsPhiE -2.09<ϕ<-1.57
hRcNHitsPossE_PhiBin3
Entries 5113
Mean 43.9
RMS 3.459
hRcNHitsPossvsPhiE -1.57<ϕ<-1.05
hRcNHitsPossE_PhiBin4
Entries 5217
Mean 43.83
RMS 3.627
hRcNHitsPossvsPhiE -1.05<ϕ<-0.52
hRcNHitsPossE_PhiBin5
Entries 5165
Mean 43.89
RMS 3.433
hRcNHitsPossvsPhiE -0.52<ϕ<0.00
hRcNHitsPossE_PhiBin6
Entries 5220
Mean 43.88
RMS 3.489
hRcNHitsPossvsPhiE 0.00<ϕ<0.52
hRcNHitsPossE_PhiBin7
Entries 5177
Mean 43.67
RMS 3.885
hRcNHitsPossvsPhiE 0.52<ϕ<1.05
hRcNHitsPossE_PhiBin8
Entries 5088
Mean 43.62
RMS 4.046
hRcNHitsPossvsPhiE 1.05<ϕ<1.57
hRcNHitsPossE_PhiBin9
Entries 5343
Mean 43.91
RMS 3.488
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss







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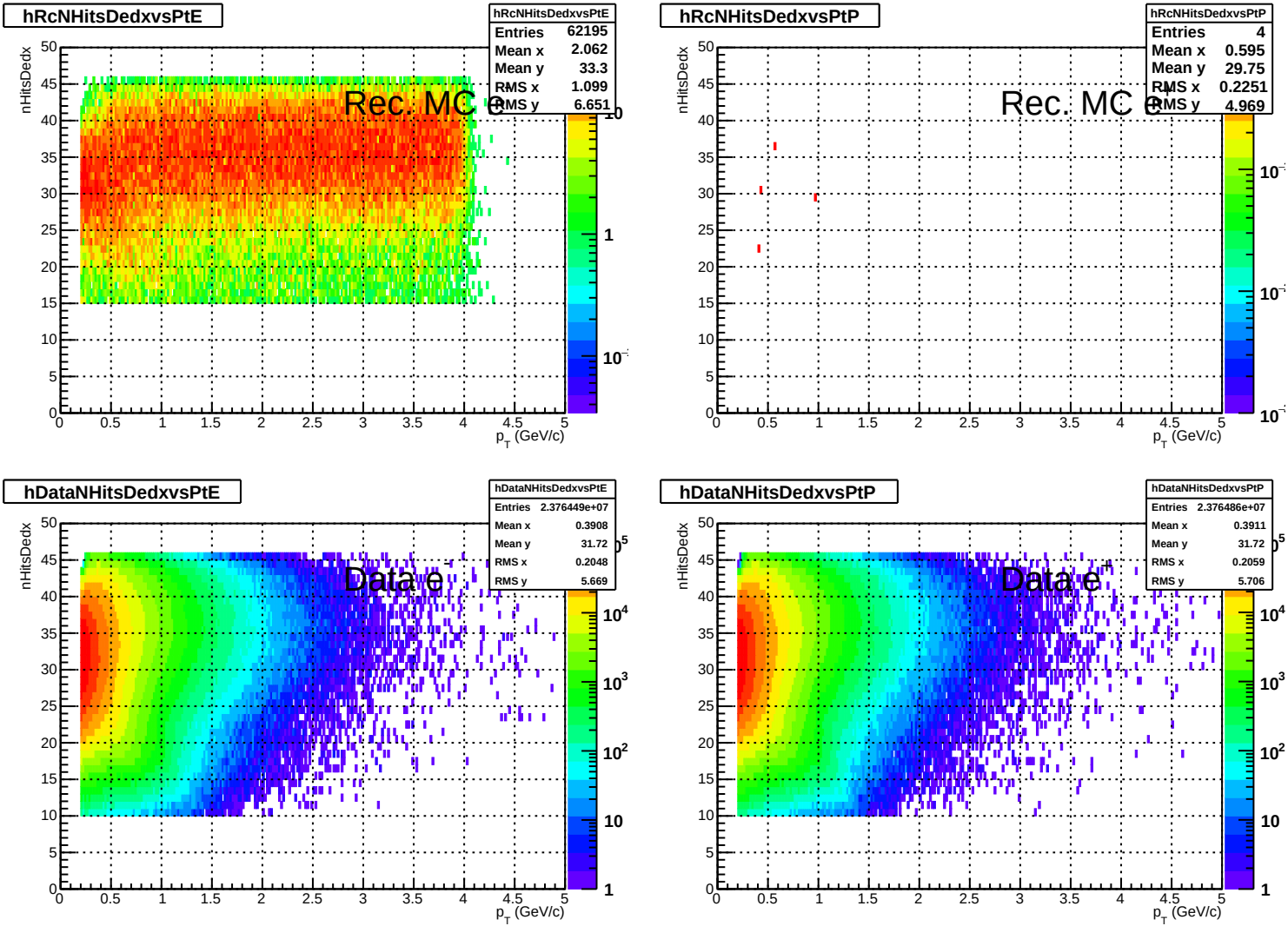
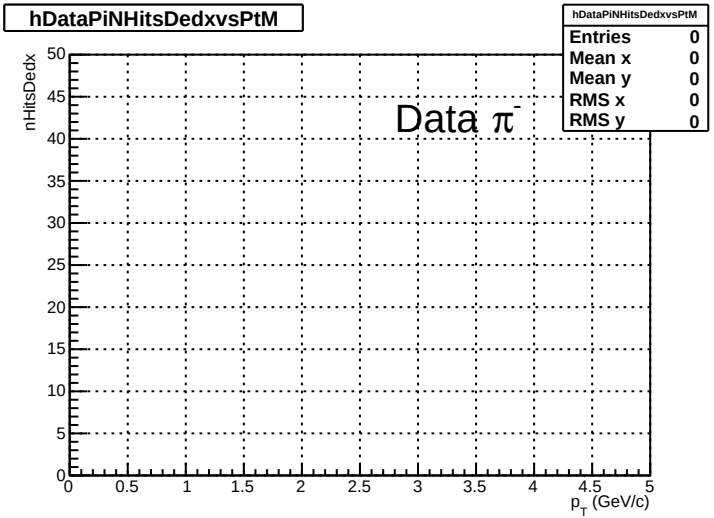

hRcNHitsDedxvsPtE
hRcNHitsDedxvsPtE
Entries 62195
Mean x 2.062
Mean y 33.3
RMS x 1.099
RMS y 6.651
Rec. MC e
nHitsDedx
p_T (GeV/c)
hRcNHitsDedxvsPtP
hRcNHitsDedxvsPtP
Entries 4
Mean x 0.595
Mean y 29.75
RMS x 0.2251
RMS y 4.969
Rec. MC e
nHitsDedx
p_T (GeV/c)
hDataNHitsDedxvsPtE
hDataNHitsDedxvsPtE
Entries 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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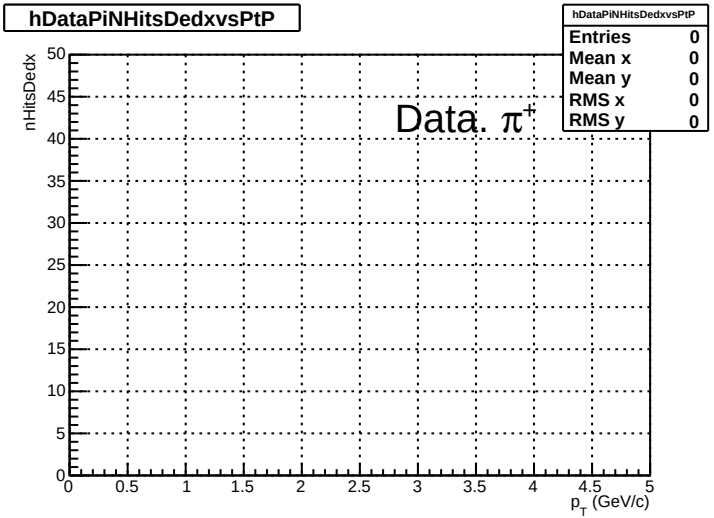
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nHitsDedx
pT (GeV/c)


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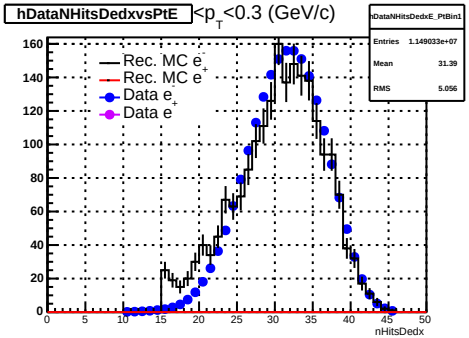
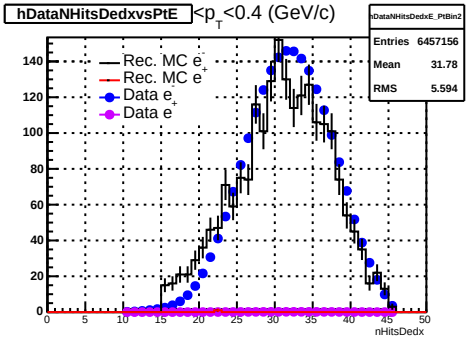
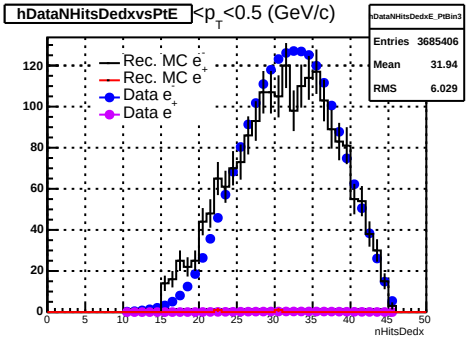
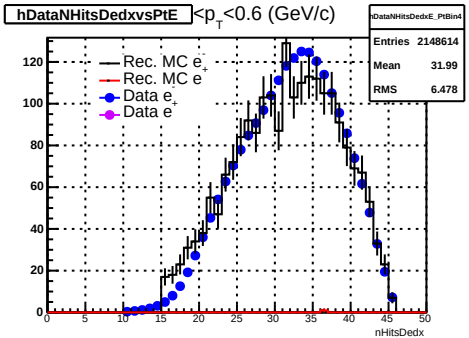
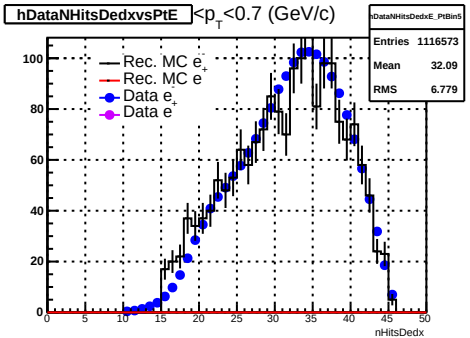
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π+
nHitsDedx
pT (GeV/c)

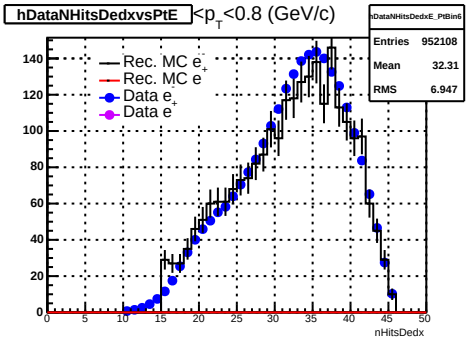

hDataNHitsDedxvsPtE
<p_T<0.3 (GeV/c)
hDataNHitsDedxE_PtBin1
Entries 1.149033e+07
Mean 31.39
RMS 5.056
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

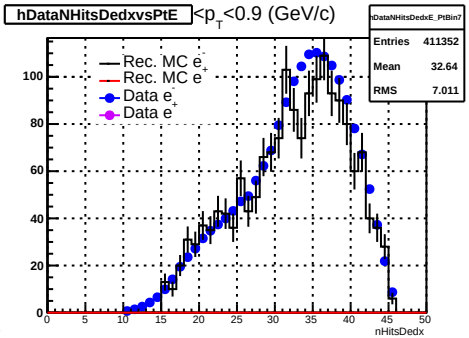

hDataNHitsDedxvsPtE
<p_T<0.4 (GeV/c)
hDataNHitsDedxE_PtBin2
Entries 6457156
Mean 31.78
RMS 5.594
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

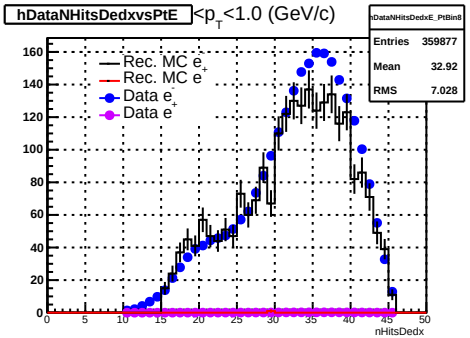

hDataNHitsDedxvsPtE
<p_T<0.5 (GeV/c)
hDataNHitsDedxE_PtBin3
Entries 3685406
Mean 31.94
RMS 6.029
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

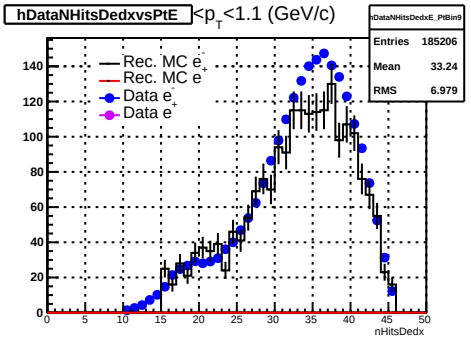

hDataNHitsDedxvsPtE
<p_T<0.6 (GeV/c)
hDataNHitsDedxE_PtBin4
Entries 2148614
Mean 31.99
RMS 6.478
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

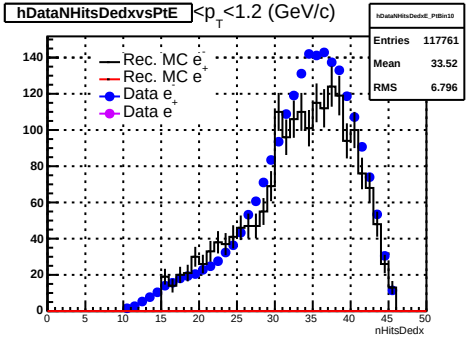

hDataNHitsDedxvsPtE
<p_T<0.7 (GeV/c)
hDataNHitsDedxE_PtBin5
Entries 1116573
Mean 32.09
RMS 6.779
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

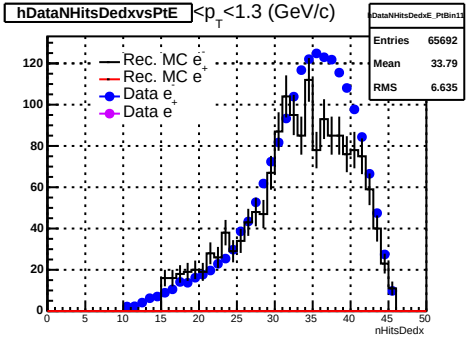

hDataNHitsDedxvsPtE
<p_T<0.8 (GeV/c)
hDataNHitsDedxE_PtBin6
Entries 952108
Mean 32.31
RMS 6.947
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

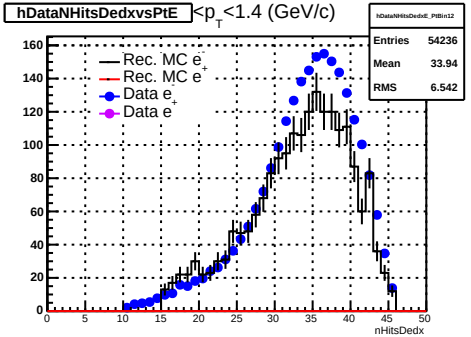

hDataNHitsDedxvsPtE
<p_T<0.9 (GeV/c)
hDataNHitsDedxE_PtBin7
Entries 411352
Mean 32.64
RMS 7.011
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

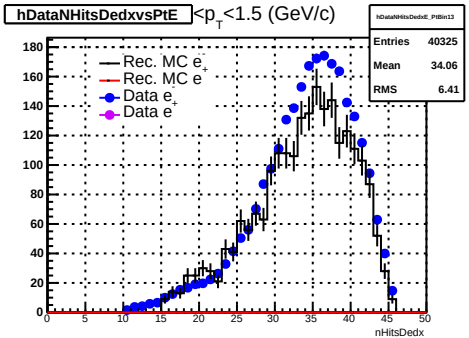

hDataNHitsDedxvsPtE
<p_T<1.0 (GeV/c)
hDataNHitsDedxE_PtBin8
Entries 359877
Mean 32.92
RMS 7.028
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

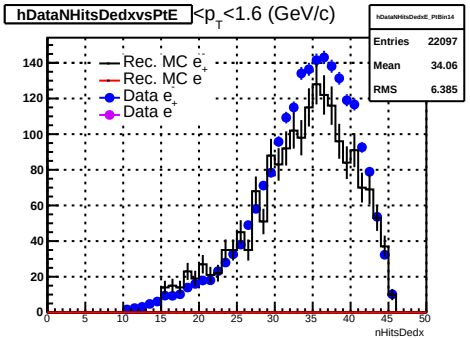

hDataNHitsDedxvsPtE
<p_T<1.1 (GeV/c)
hDataNHitsDedxE_PtBin9
Entries 185206
Mean 33.24
RMS 6.979
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

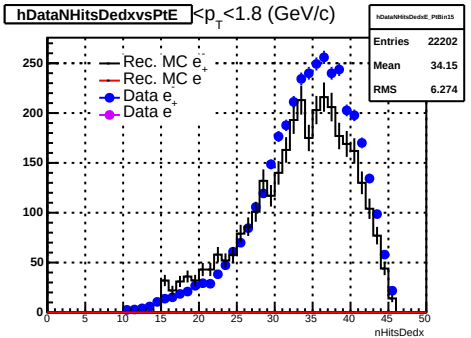

hDataNHitsDedxvsPtE
<p_T<1.2 (GeV/c)
hDataNHitsDedxE_PtBin10
Entries 117761
Mean 33.52
RMS 6.796
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsDedx

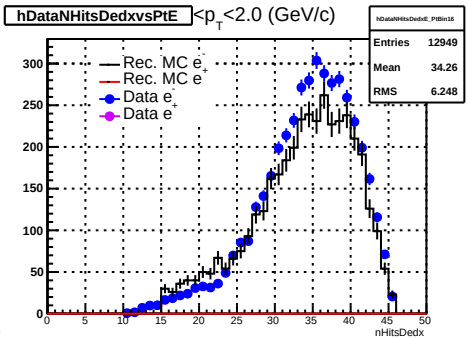

hDataNHitsDedxvsPtE
<p_T<1.3 (GeV/c)
hDataNHitsDedxE_PtBin11
Entries 65692
Mean 33.79
RMS 6.635
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsDedx

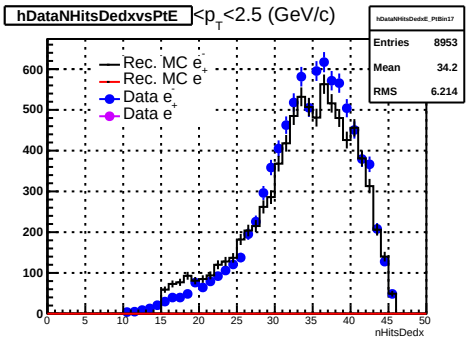

hDataNHitsDedxvsPtE
<p_T<1.4 (GeV/c)
hDataNHitsDedxE_PtBin12
Entries 54236
Mean 33.94
RMS 6.542
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsDedx

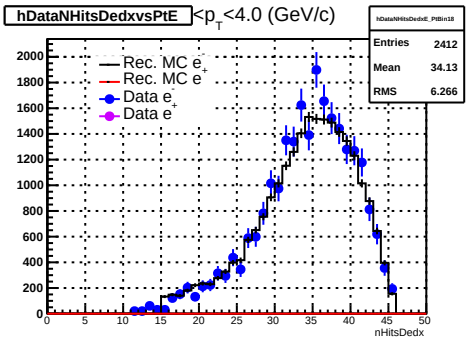

hDataNHitsDedxvsPtE
<p_T<1.5 (GeV/c)
hDataNHitsDedxE_PtBin13
Entries 40325
Mean 34.06
RMS 6.41
Rec. MC e+
Rec. MC e-
Data e+
Data e-
nHitsDedx


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


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


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


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


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

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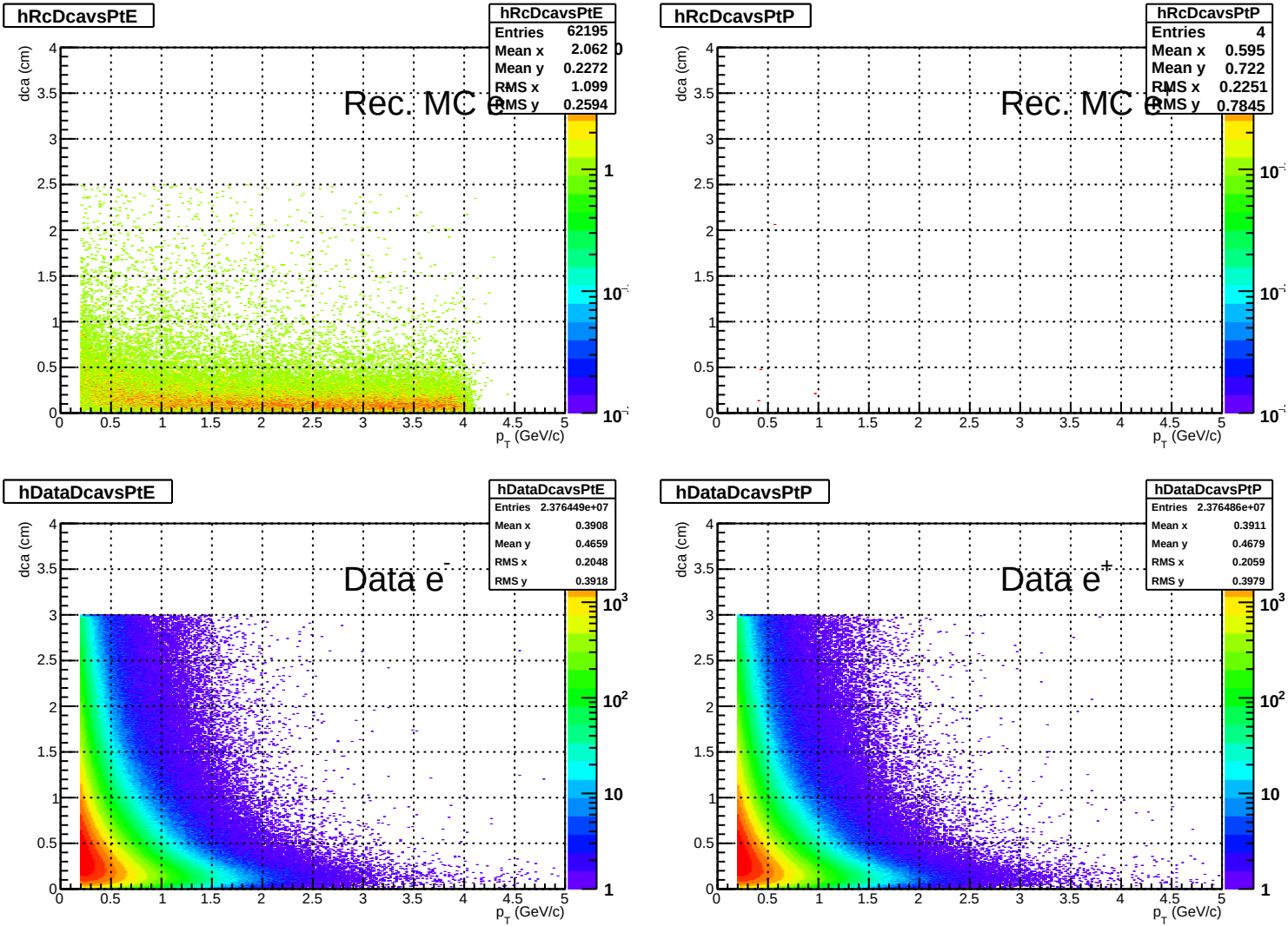
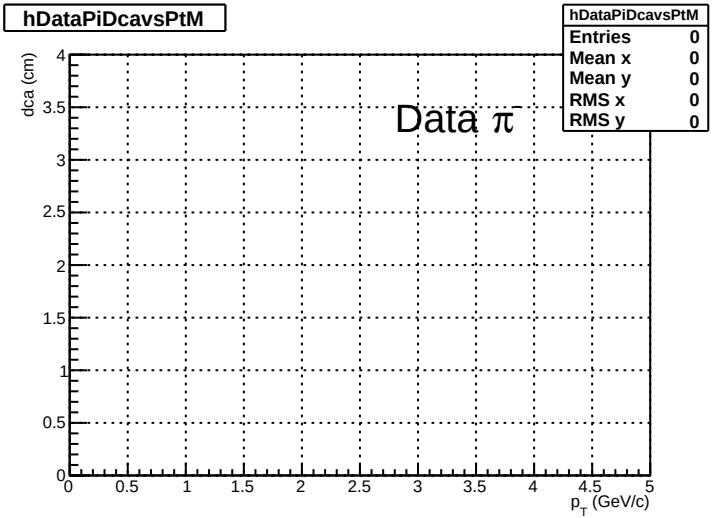
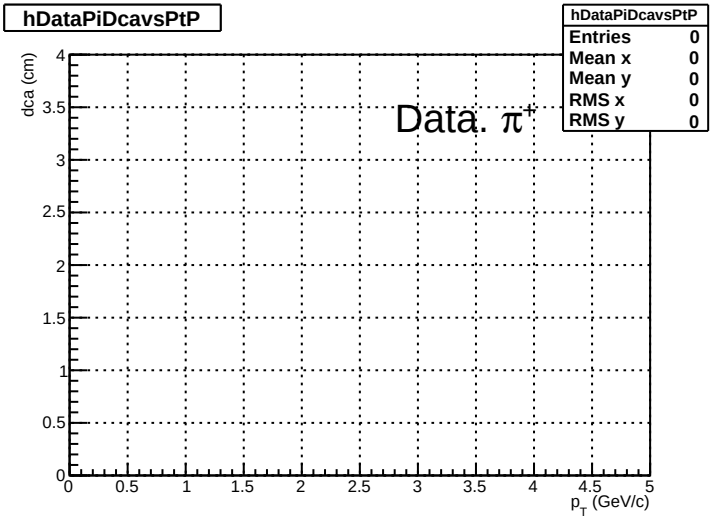
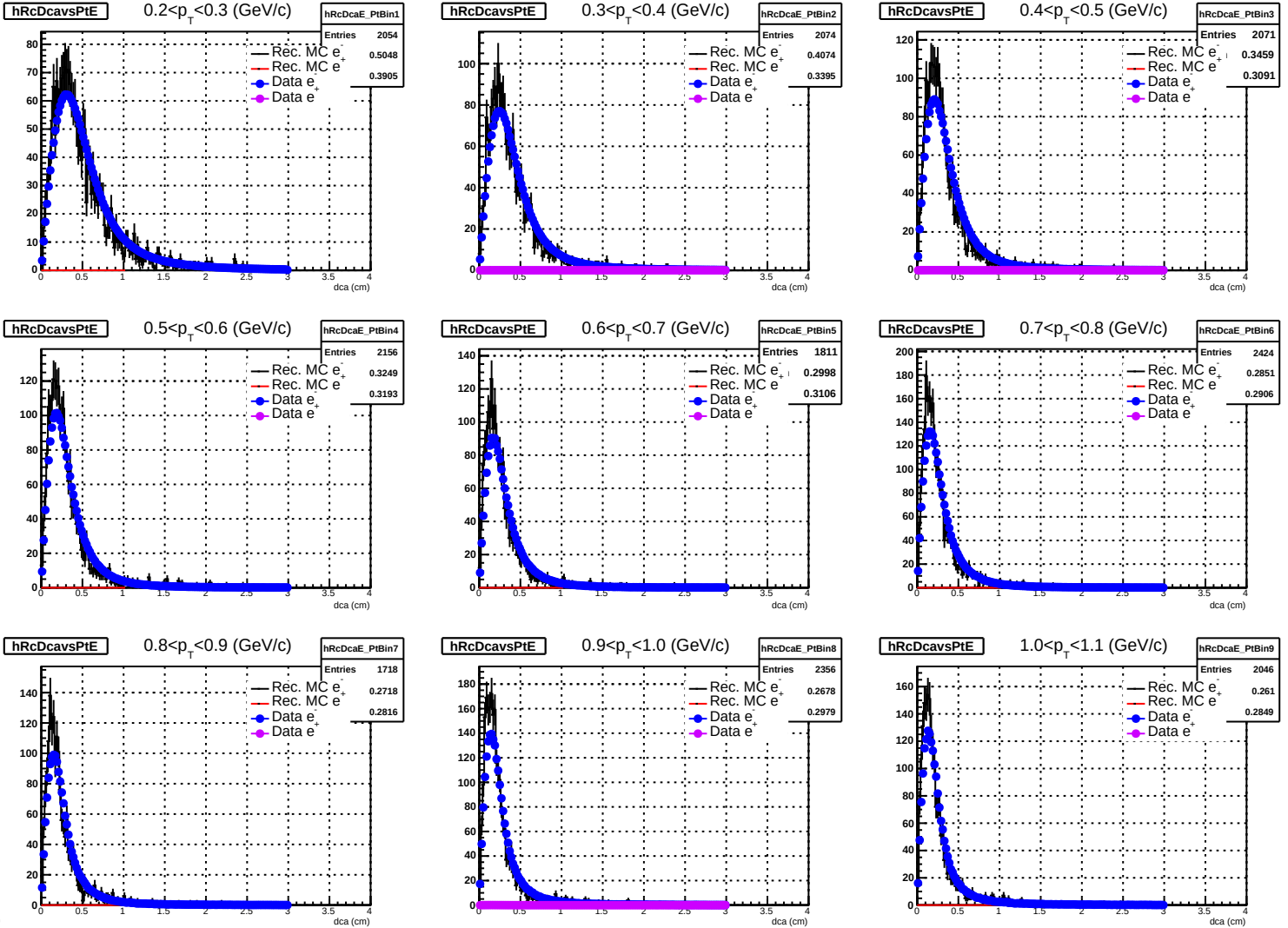
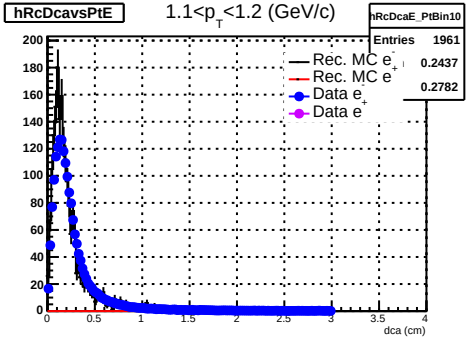
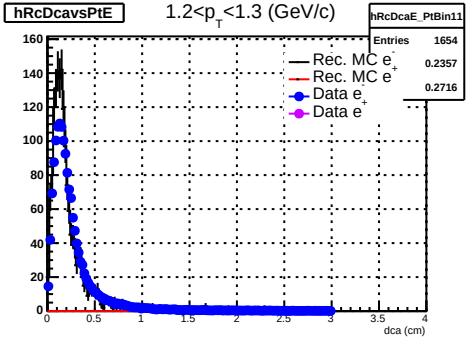

hRcDcavsPtE
hRcDcavsPtE
Entries 62195
Mean x 2.062
Mean y 0.2272
RMS x 1.099
RMS y 0.2594
Rec. MC e-
hRcDcavsPtP
hRcDcavsPtP
Entries 4
Mean x 0.595
Mean y 0.722
RMS x 0.2251
RMS y 0.7845
Rec. MC e+
hDataDcavsPtE
hDataDcavsPtE
Entries 2.376449e+07
Mean x 0.3908
Mean y 0.4659
RMS x 0.2048
RMS y 0.3918
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)

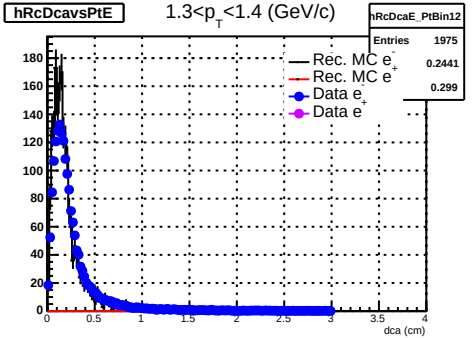

hDataPiDcavsPtM
hDataPiDcavsPtM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π⁻
dca (cm)
p_T (GeV/c)

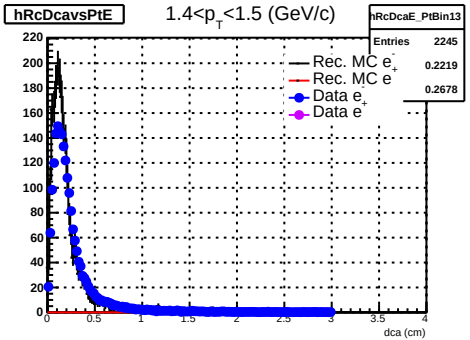

hDataPiDcavsPtP
hDataPiDcavsPtP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data. π⁺
dca (cm)
p_T (GeV/c)

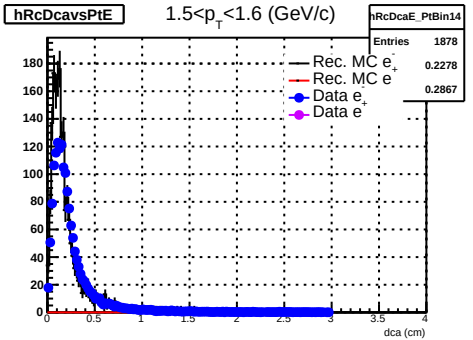

hRcDcavsPtE
0.2<p_T<0.3 (GeV/c)
hRcDcaE_PtBin1
Entries 2054
0.5048
0.3905
0.3<p_T<0.4 (GeV/c)
hRcDcaE_PtBin2
Entries 2074
0.4074
0.3395
0.4<p_T<0.5 (GeV/c)
hRcDcaE_PtBin3
Entries 2071
0.3459
0.3091
0.5<p_T<0.6 (GeV/c)
hRcDcaE_PtBin4
Entries 2156
0.3249
0.3193
0.6<p_T<0.7 (GeV/c)
hRcDcaE_PtBin5
Entries 1811
0.2998
0.3106
0.7<p_T<0.8 (GeV/c)
hRcDcaE_PtBin6
Entries 2424
0.2851
0.2906
0.8<p_T<0.9 (GeV/c)
hRcDcaE_PtBin7
Entries 1718
0.2718
0.2816
0.9<p_T<1.0 (GeV/c)
hRcDcaE_PtBin8
Entries 2356
0.2678
0.2979
1.0<p_T<1.1 (GeV/c)
hRcDcaE_PtBin9
Entries 2046
0.261
0.2849
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

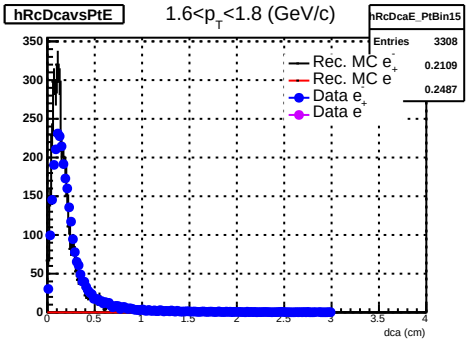

hRcDcavsPtE
1.1<p_T<1.2 (GeV/c)
hRcDcaE_PtBin10
Entries 1961
0.2437
0.2782
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

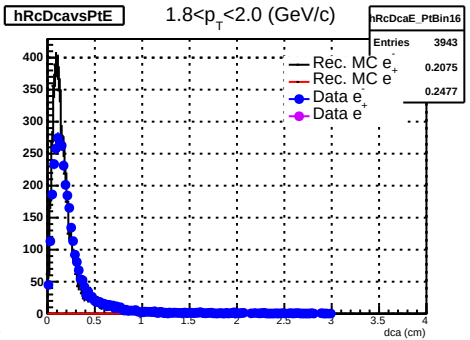

hRcDcavsPtE
1.2<p_T<1.3 (GeV/c)
hRcDcaE_PtBin11
Entries 1654
0.2357
0.2716
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

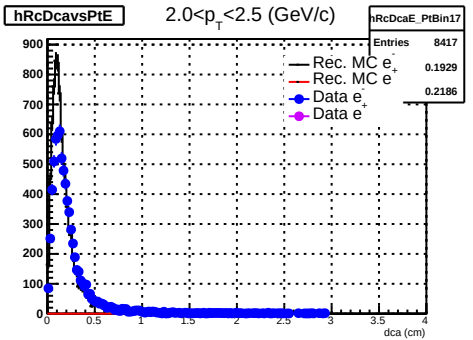

hRcDcavsPtE
1.3<p_T<1.4 (GeV/c)
hRcDcaE_PtBin12
Entries 1975
0.2441
0.299
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

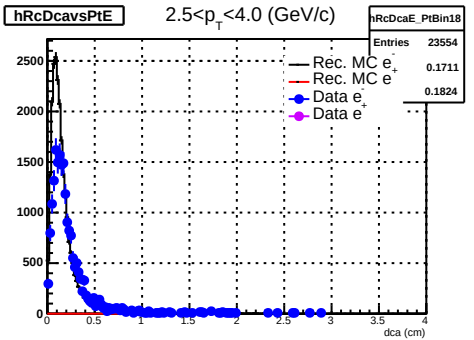

hRcDcavsPtE
1.4<p_T<1.5 (GeV/c)
hRcDcaE_PtBin13
Entries 2245
0.2219
0.2678
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

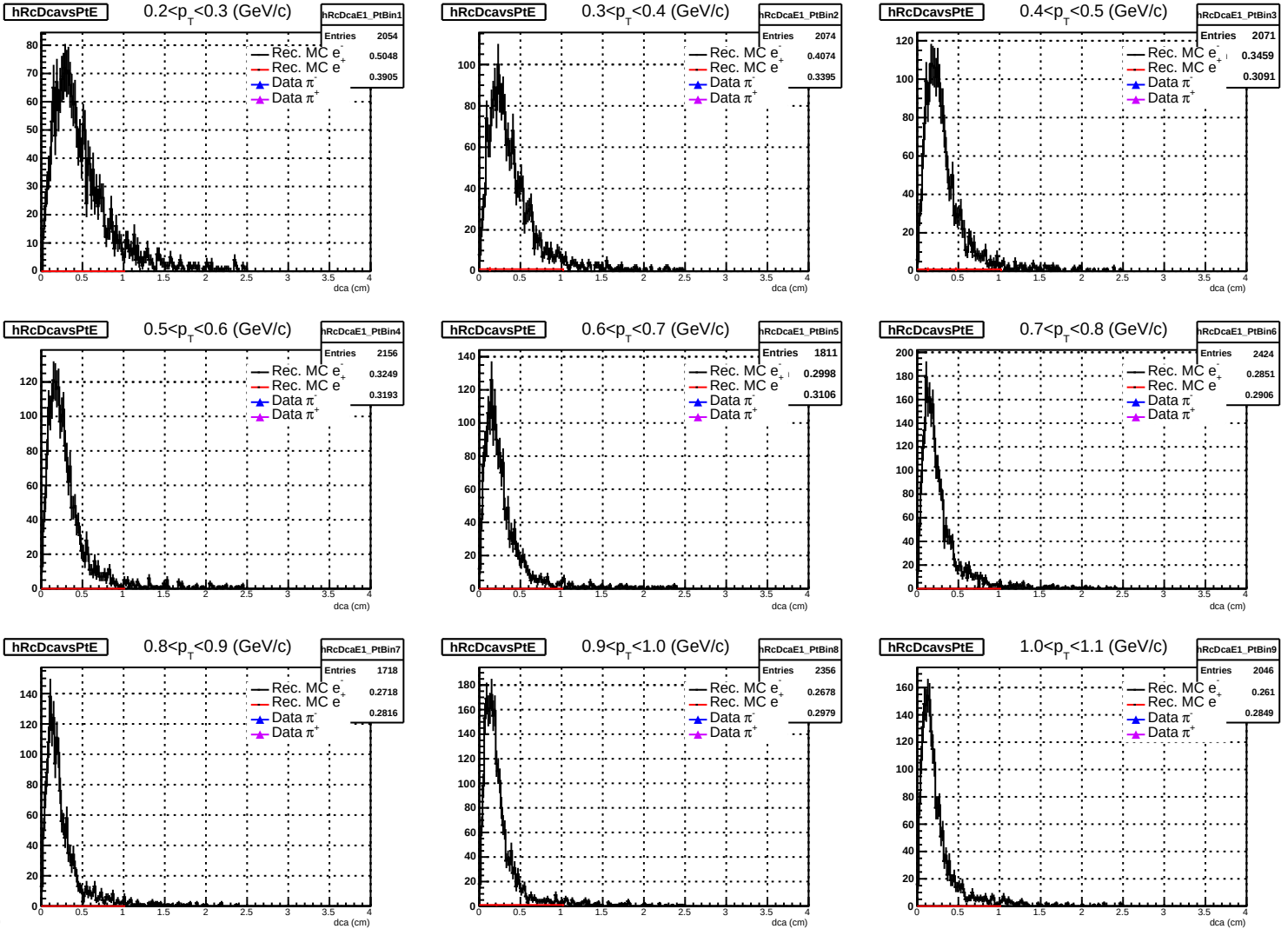

hRcDcavsPtE
1.5<p_T<1.6 (GeV/c)
hRcDcaE_PtBin14
Entries 1878
0.2278
0.2867
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

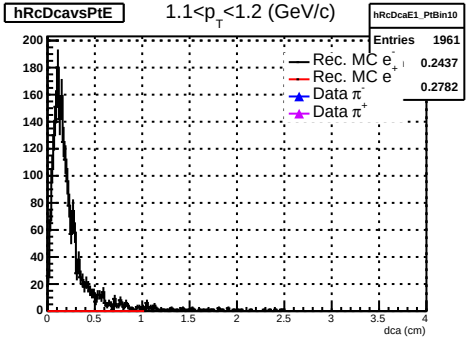

hRcDcavsPtE
1.6<p_T<1.8 (GeV/c)
hRcDcaE_PtBin15
Entries 3308
0.2109
0.2487
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

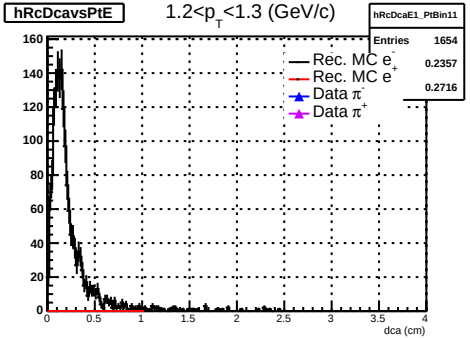

hRcDcavsPtE
1.8<p_T<2.0 (GeV/c)
hRcDcaE_PtBin16
Entries 3943
0.2075
0.2477
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

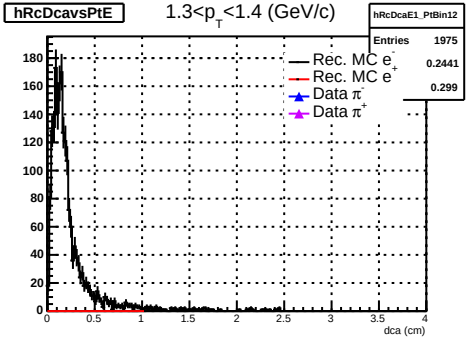

hRcDcavsPtE
2.0<p_T<2.5 (GeV/c)
hRcDcaE_PtBin17
Entries 8417
0.1929
0.2186
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

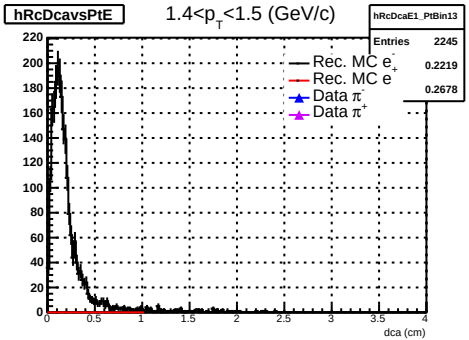

hRcDcavsPtE
2.5<p_T<4.0 (GeV/c)
hRcDcaE_PtBin18
Entries 23554
0.1711
0.1824
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
dca (cm)

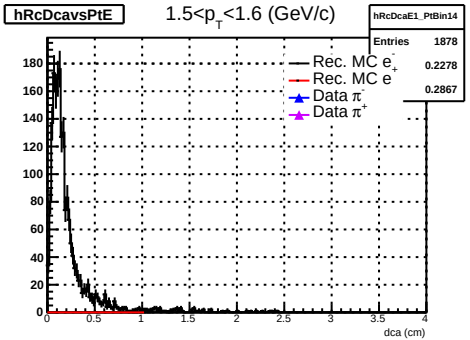

hRcDcavsPtE
0.2<p_T<0.3 (GeV/c)
hRcDcaE1_PtBin1
Entries 2054
Rec. MC e-+ 0.5048
Rec. MC e- 0.3905
Data π-
Data π+
dca (cm)
hRcDcavsPtE
0.3<p_T<0.4 (GeV/c)
hRcDcaE1_PtBin2
Entries 2074
Rec. MC e-+ 0.4074
Rec. MC e- 0.3395
Data π-
Data π+
dca (cm)
hRcDcavsPtE
0.4<p_T<0.5 (GeV/c)
hRcDcaE1_PtBin3
Entries 2071
Rec. MC e-+ 0.3459
Rec. MC e- 0.3091
Data π-
Data π+
dca (cm)
hRcDcavsPtE
0.5<p_T<0.6 (GeV/c)
hRcDcaE1_PtBin4
Entries 2156
Rec. MC e-+ 0.3249
Rec. MC e- 0.3193
Data π-
Data π+
dca (cm)
hRcDcavsPtE
0.6<p_T<0.7 (GeV/c)
hRcDcaE1_PtBin5
Entries 1811
Rec. MC e-+ 0.2998
Rec. MC e- 0.3106
Data π-
Data π+
dca (cm)
hRcDcavsPtE
0.7<p_T<0.8 (GeV/c)
hRcDcaE1_PtBin6
Entries 2424
Rec. MC e-+ 0.2851
Rec. MC e- 0.2906
Data π-
Data π+
dca (cm)
hRcDcavsPtE
0.8<p_T<0.9 (GeV/c)
hRcDcaE1_PtBin7
Entries 1718
Rec. MC e-+ 0.2718
Rec. MC e- 0.2816
Data π-
Data π+
dca (cm)
hRcDcavsPtE
0.9<p_T<1.0 (GeV/c)
hRcDcaE1_PtBin8
Entries 2356
Rec. MC e-+ 0.2678
Rec. MC e- 0.2979
Data π-
Data π+
dca (cm)
hRcDcavsPtE
1.0<p_T<1.1 (GeV/c)
hRcDcaE1_PtBin9
Entries 2046
Rec. MC e-+ 0.261
Rec. MC e- 0.2849
Data π-
Data π+
dca (cm)

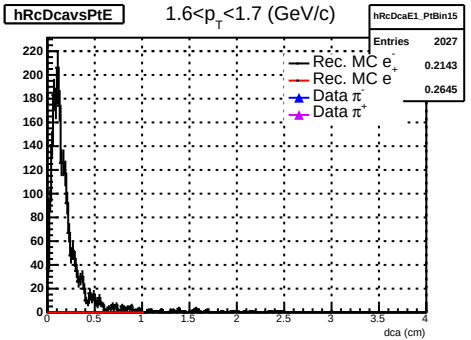

hRcDcavsPtE
1.1<p_T<1.2 (GeV/c)
hRcDcaE1_PtBin10
Entries 1961
Rec. MC e+ 0.2437
Rec. MC e- 0.2782
Data π-
Data π+
dca (cm)

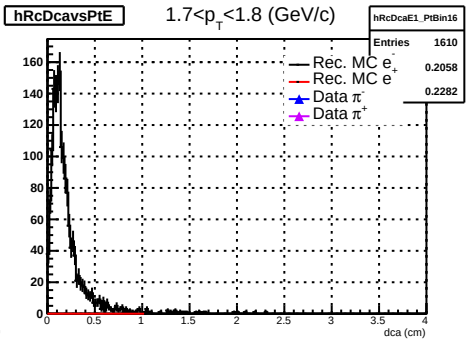

hRcDcavsPtE
1.2<p_T<1.3 (GeV/c)
hRcDcaE1_PtBin11
Entries 1654
Rec. MC e+ 0.2357
Rec. MC e- 0.2716
Data π-
Data π+
dca (cm)

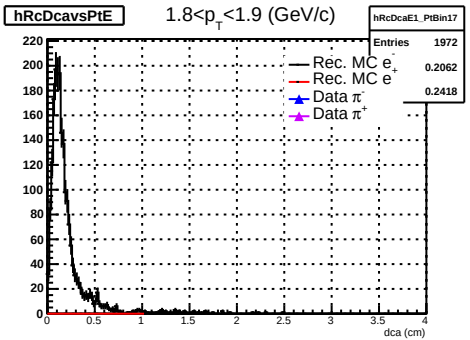

hRcDcavsPtE
1.3<p_T<1.4 (GeV/c)
hRcDcaE1_PtBin12
Entries 1975
Rec. MC e+ 0.2441
Rec. MC e- 0.299
Data π-
Data π+
dca (cm)

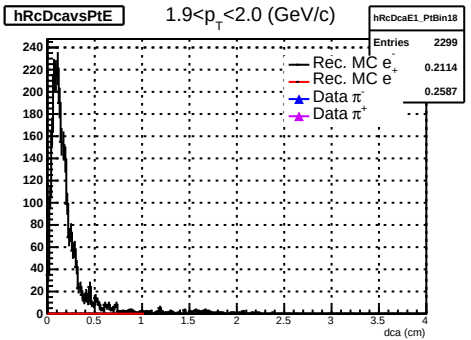

hRcDcavsPtE
1.4<p_T<1.5 (GeV/c)
hRcDcaE1_PtBin13
Entries 2245
Rec. MC e+ 0.2219
Rec. MC e- 0.2678
Data π-
Data π+
dca (cm)

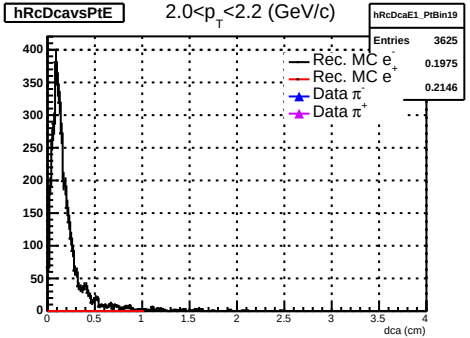

hRcDcavsPtE
1.5<p_T<1.6 (GeV/c)
hRcDcaE1_PtBin14
Entries 1878
Rec. MC e+ 0.2278
Rec. MC e- 0.2867
Data π-
Data π+
dca (cm)

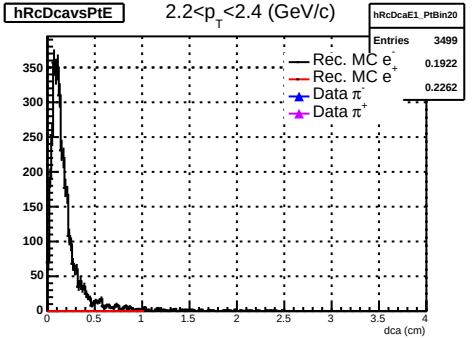

hRcDcavsPtE
1.6<p_T<1.7 (GeV/c)
hRcDcaE1_PtBin15
Entries 2027
Rec. MC e+ 0.2143
Rec. MC e- 0.2645
Data π-
Data π+
dca (cm)

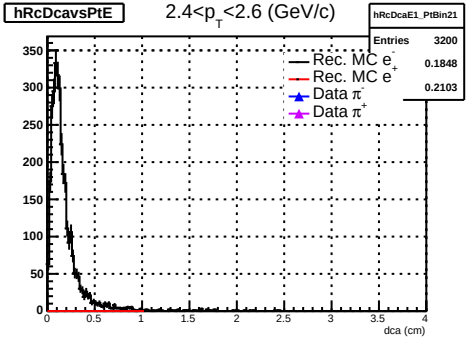

hRcDcavsPtE
1.7<p_T<1.8 (GeV/c)
hRcDcaE1_PtBin16
Entries 1610
Rec. MC e+ 0.2058
Rec. MC e- 0.2282
Data π-
Data π+
dca (cm)

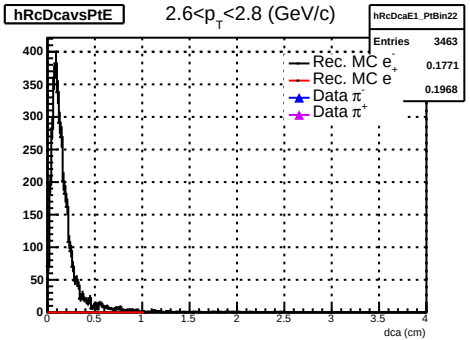

hRcDcavsPtE
1.8<p_T<1.9 (GeV/c)
hRcDcaE1_PtBin17
Entries 1972
Rec. MC e+ 0.2062
Rec. MC e- 0.2418
Data π-
Data π+
dca (cm)

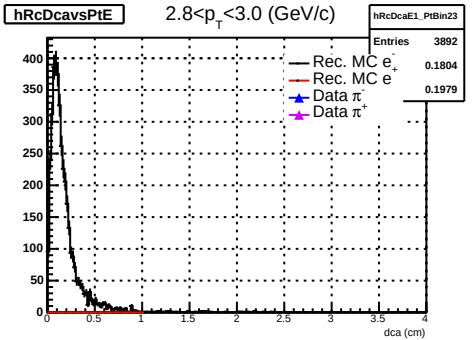

hRcDcavsPtE
1.9<p_T<2.0 (GeV/c)
hRcDcaE1_PtBin18
Entries 2299
Rec. MC e+ 0.2114
Rec. MC e- 0.2587
Data π-
Data π+
dca (cm)

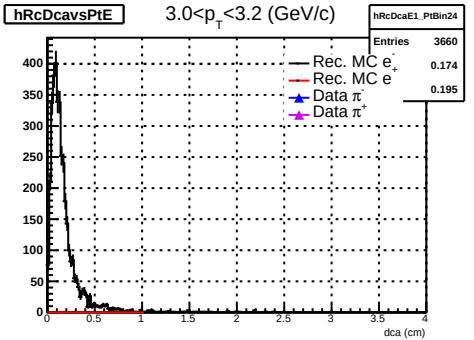

hRcDcavsPtE
2.0<p_T<2.2 (GeV/c)
hRcDcaE1_PtBin19
Entries 3625
Rec. MC e+ 0.1975
Rec. MC e- 0.2146
Data π-
Data π+
dca (cm)

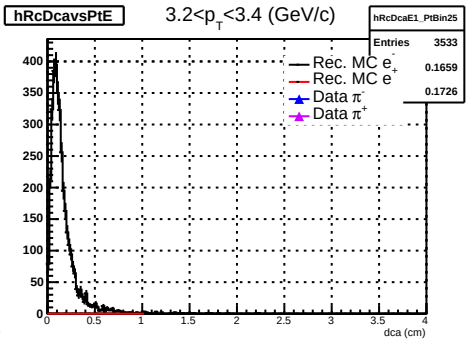

hRcDcavsPtE
2.2<p_T<2.4 (GeV/c)
hRcDcaE1_PtBin20
Entries 3499
Rec. MC e+ 0.1922
Rec. MC e- 0.2262
Data π-
Data π+
dca (cm)

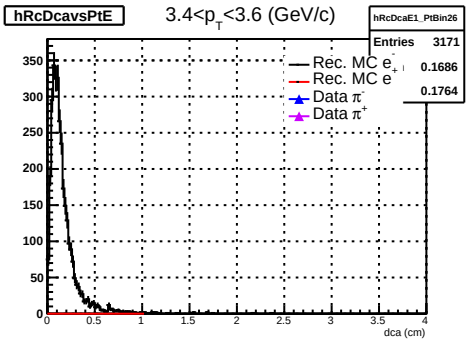

hRcDcavsPtE
2.4<p_T<2.6 (GeV/c)
hRcDcaE1_PtBin21
Entries 3200
Rec. MC e+ 0.1848
Rec. MC e- 0.2103
Data π-
Data π+
dca (cm)

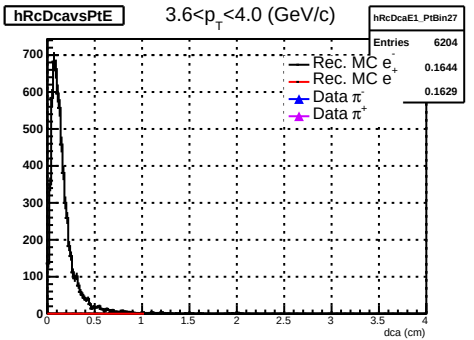

hRcDcavsPtE
2.6<p_T<2.8 (GeV/c)
hRcDcaE1_PtBin22
Entries 3463
Rec. MC e+ 0.1771
Rec. MC e- 0.1968
Data π-
Data π+
dca (cm)

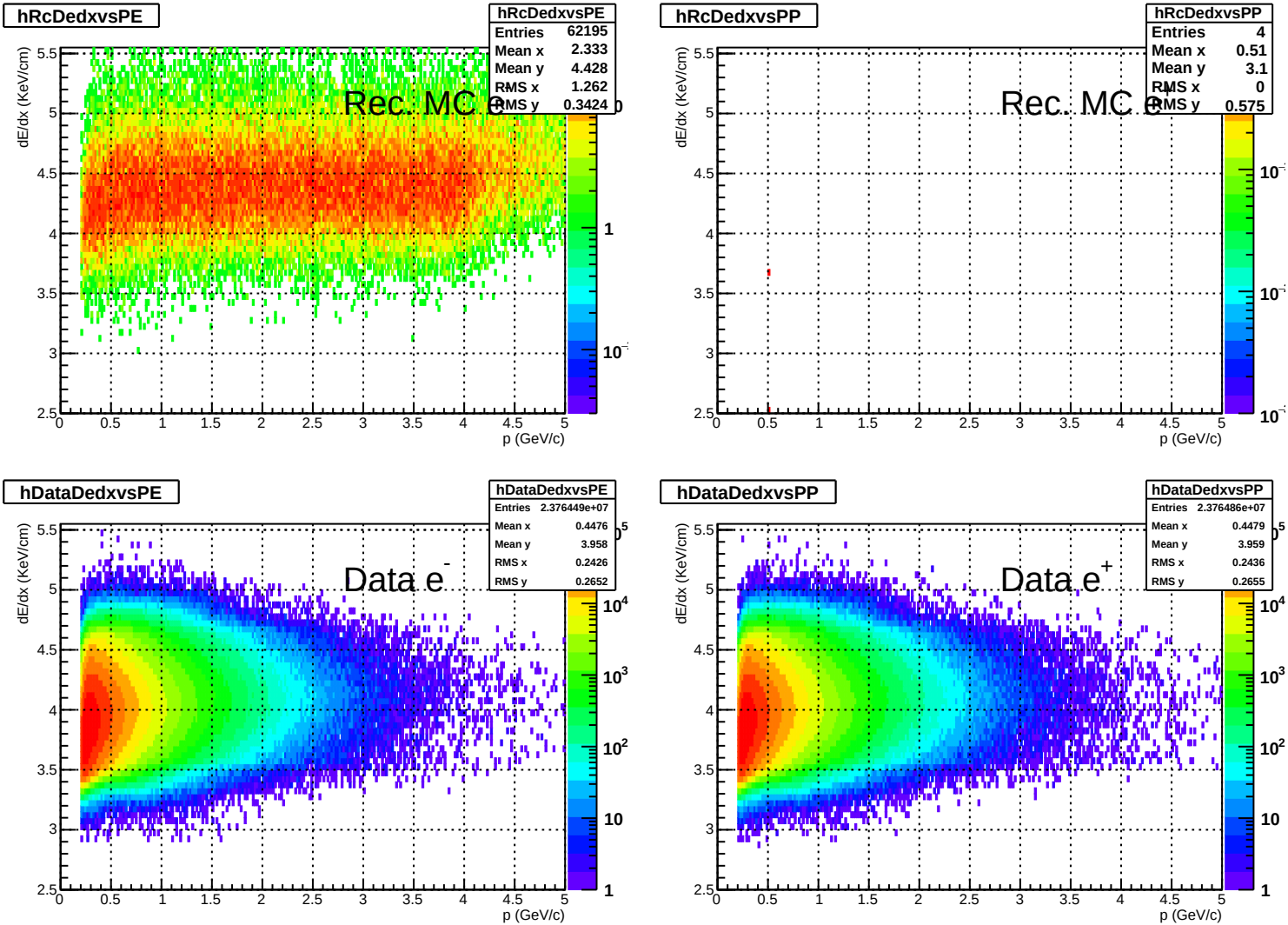

hRcDcavsPtE
2.8<p_T<3.0 (GeV/c)
hRcDcaE1_PtBin23
Entries 3892
Rec. MC e+ 0.1804
Rec. MC e- 0.1979
Data π-
Data π+
dca (cm)

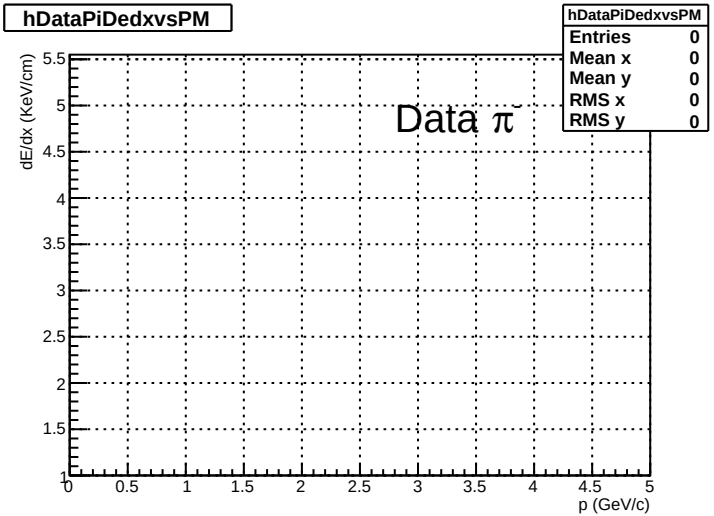

hRcDcavsPtE
3.0<p_T<3.2 (GeV/c)
hRcDcaE1_PtBin24
Entries 3660
Rec. MC e+ 0.174
Rec. MC e- 0.195
Data π-
Data π+
dca (cm)

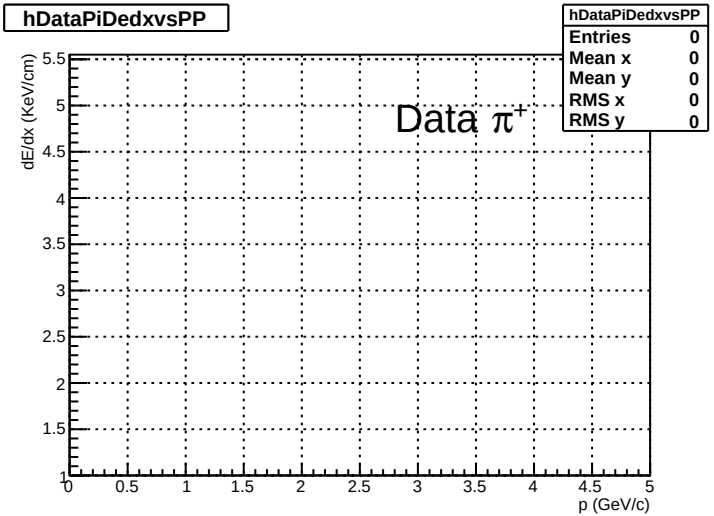

hRcDcavsPtE
3.2<p_T<3.4 (GeV/c)
hRcDcaE1_PtBin25
Entries 3533
Rec. MC e+ 0.1659
Rec. MC e- 0.1726
Data π-
Data π+
dca (cm)

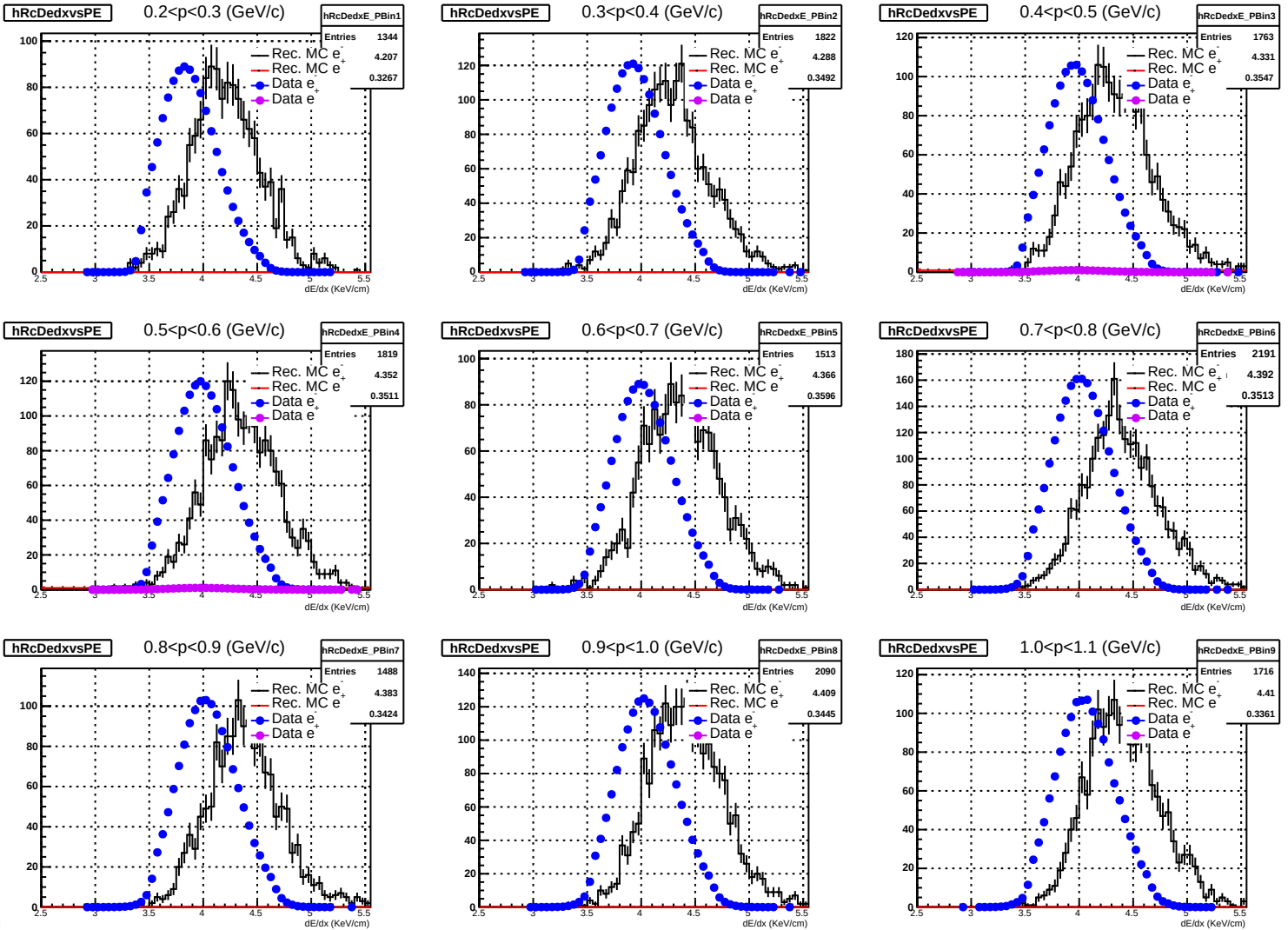

hRcDcavsPtE
3.4<p_T<3.6 (GeV/c)
hRcDcaE1_PtBin26
Entries 3171
Rec. MC e+ 0.1686
Rec. MC e- 0.1764
Data π-
Data π+
dca (cm)

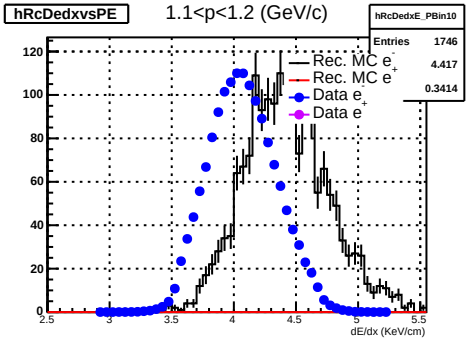

hRcDcavsPtE
3.6<p_T<4.0 (GeV/c)
hRcDcaE1_PtBin27
Entries 6204
Rec. MC e+ 0.1644
Rec. MC e- 0.1629
Data π-
Data π+
dca (cm)

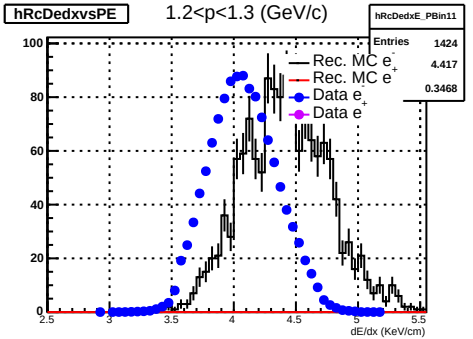

hRcDedxvsPE
hRcDedxvsPE
Entries 62195
Mean x 2.333
Mean y 4.428
RMS x 1.262
RMS y 0.3424
Rec. MC e
dE/dx (KeV/cm)
p (GeV/c)
hRcDedxvsPP
hRcDedxvsPP
Entries 4
Mean x 0.51
Mean y 3.1
RMS x 0
RMS y 0.575
Rec. MC e
dE/dx (KeV/cm)
p (GeV/c)
hDataDedxvsPE
hDataDedxvsPE
Entries 2.376449e+07
Mean x 0.4476
Mean 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)

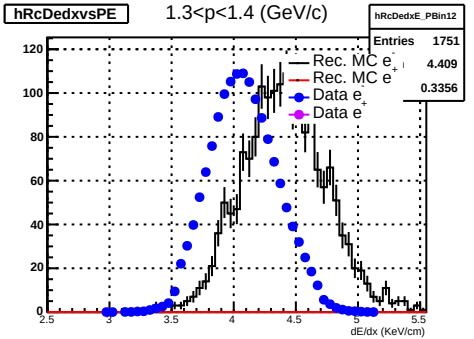

hDataPiDedxvsPM
hDataPiDedxvsPM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π⁻
dE/dx (KeV/cm)
p (GeV/c)

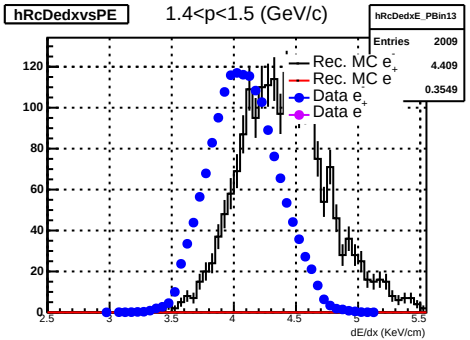

hDataPiDedxvsPP
hDataPiDedxvsPP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π⁺
dE/dx (KeV/cm)
p (GeV/c)

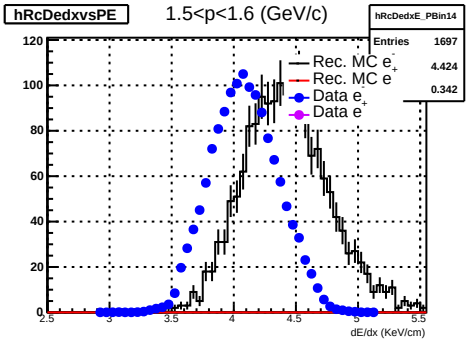

hRcDedxvsPE
0.2<p<0.3 (GeV/c)
hRcDedxE_PBin1
Entries 1344
4.207
0.3267
0.3<p<0.4 (GeV/c)
hRcDedxE_PBin2
Entries 1822
4.288
0.3492
0.4<p<0.5 (GeV/c)
hRcDedxE_PBin3
Entries 1763
4.331
0.3547
0.5<p<0.6 (GeV/c)
hRcDedxE_PBin4
Entries 1819
4.352
0.3511
0.6<p<0.7 (GeV/c)
hRcDedxE_PBin5
Entries 1513
4.366
0.3596
0.7<p<0.8 (GeV/c)
hRcDedxE_PBin6
Entries 2191
4.392
0.3513
0.8<p<0.9 (GeV/c)
hRcDedxE_PBin7
Entries 1488
4.383
0.3424
0.9<p<1.0 (GeV/c)
hRcDedxE_PBin8
Entries 2090
4.409
0.3445
1.0<p<1.1 (GeV/c)
hRcDedxE_PBin9
Entries 1716
4.41
0.3361
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

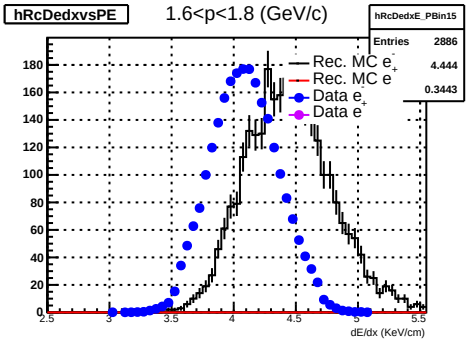

hRcDedxvsPE
1.1<p<1.2 (GeV/c)
hRcDedxE_PBin10
Entries 1746
4.417
0.3414
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

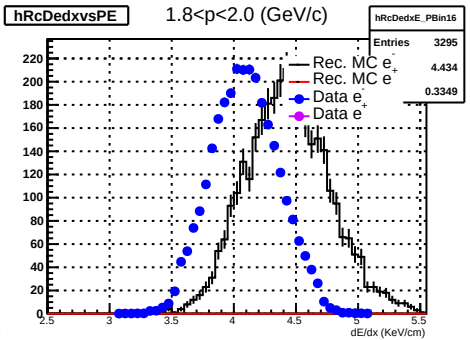

hRcDedxvsPE
1.2<p<1.3 (GeV/c)
hRcDedxE_PBin11
Entries 1424
4.417
0.3468
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

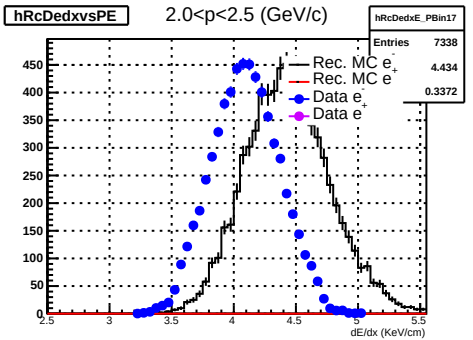

hRcDedxvsPE
1.3<p<1.4 (GeV/c)
hRcDedxE_PBin12
Entries 1751
4.409
0.3356
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

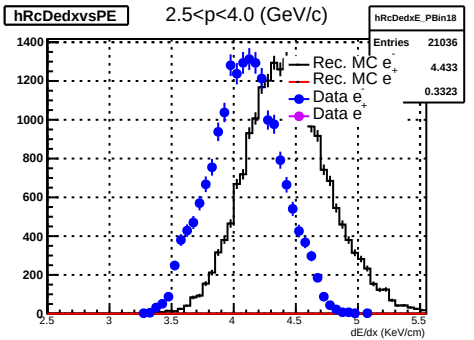

hRcDedxvsPE
1.4<p<1.5 (GeV/c)
hRcDedxE_PBin13
Entries 2009
4.409
0.3549
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

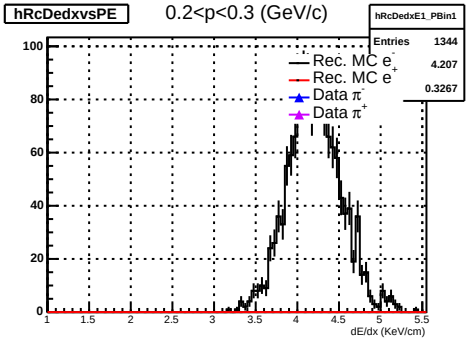

hRcDedxvsPE
1.5<p<1.6 (GeV/c)
hRcDedxE_PBin14
Entries 1697
4.424
0.342
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

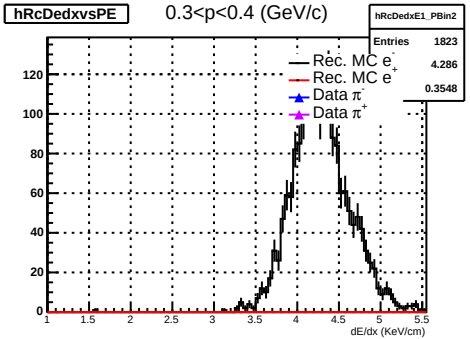

hRcDedxvsPE
1.6<p<1.8 (GeV/c)
hRcDedxE_PBin15
Entries 2886
4.444
0.3443
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

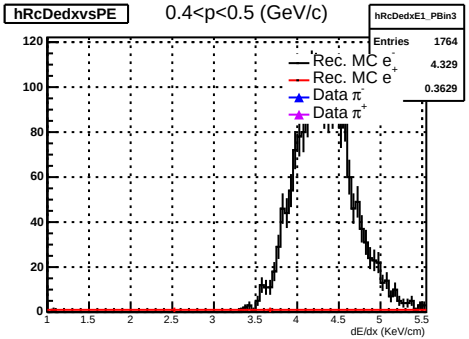

hRcDedxvsPE
1.8<p<2.0 (GeV/c)
hRcDedxE_PBin16
Entries 3295
4.434
0.3349
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

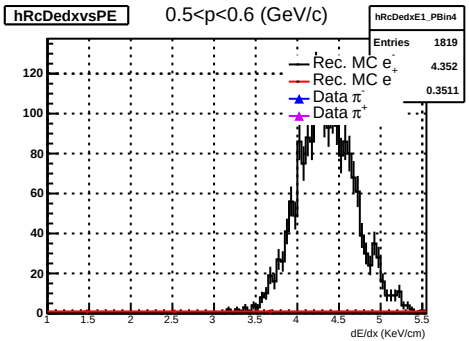

hRcDedxvsPE
2.0<p<2.5 (GeV/c)
hRcDedxE_PBin17
Entries 7338
4.434
0.3372
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

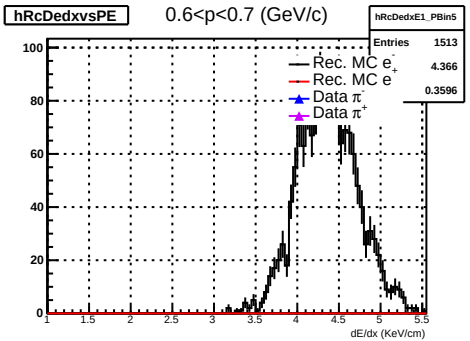

hRcDedxvsPE
2.5<p<4.0 (GeV/c)
hRcDedxE_PBin18
Entries 21036
4.433
0.3323
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dE/dx (KeV/cm)

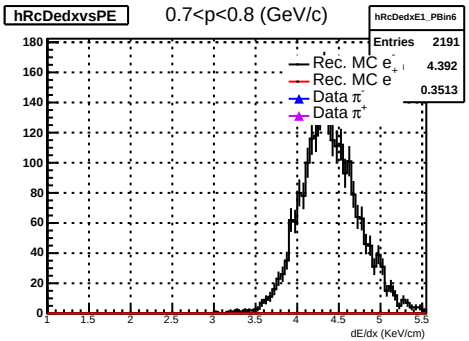

hRcDedxvsPE
0.2<p<0.3 (GeV/c)
hRcDedxE1_PBin1
Entries 1344
4.207
0.3267
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

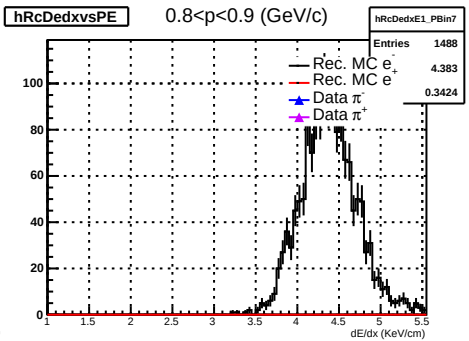

hRcDedxvsPE
0.3<p<0.4 (GeV/c)
hRcDedxE1_PBin2
Entries 1823
4.286
0.3548
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

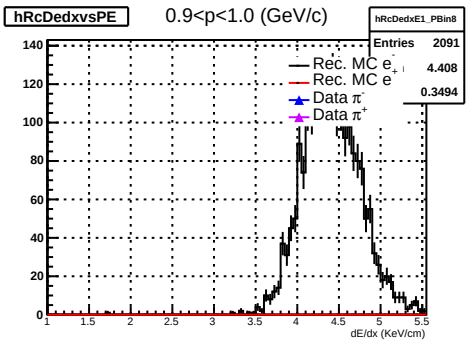

hRcDedxvsPE
0.4<p<0.5 (GeV/c)
hRcDedxE1_PBin3
Entries 1764
4.329
0.3629
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

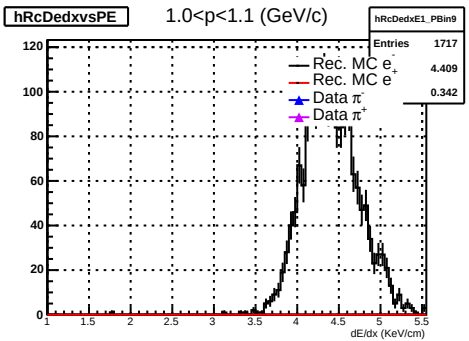

hRcDedxvsPE
0.5<p<0.6 (GeV/c)
hRcDedxE1_PBin4
Entries 1819
4.352
0.3511
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

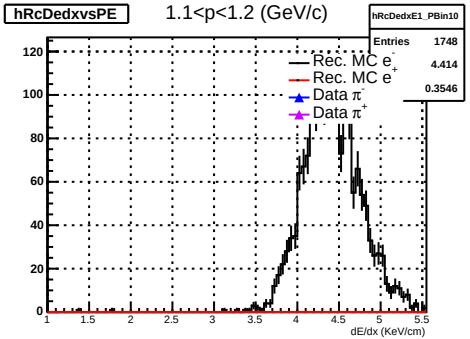

hRcDedxvsPE
0.6<p<0.7 (GeV/c)
hRcDedxE1_PBin5
Entries 1513
4.366
0.3596
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

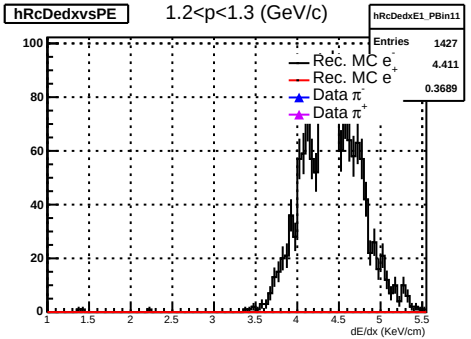

hRcDedxvsPE
0.7<p<0.8 (GeV/c)
hRcDedxE1_PBin6
Entries 2191
4.392
0.3513
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

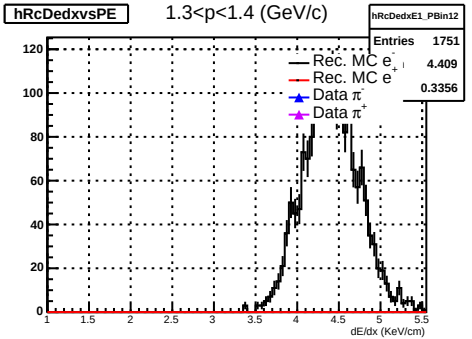

hRcDedxvsPE
0.8<p<0.9 (GeV/c)
hRcDedxE1_PBin7
Entries 1488
4.383
0.3424
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

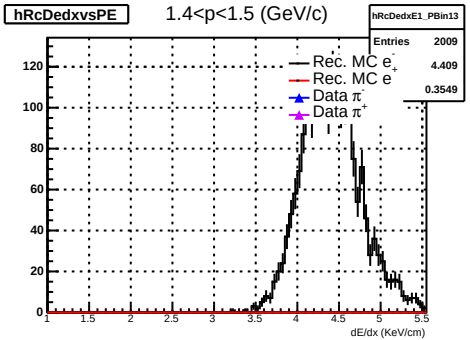

hRcDedxvsPE
0.9<p<1.0 (GeV/c)
hRcDedxE1_PBin8
Entries 2091
4.408
0.3494
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

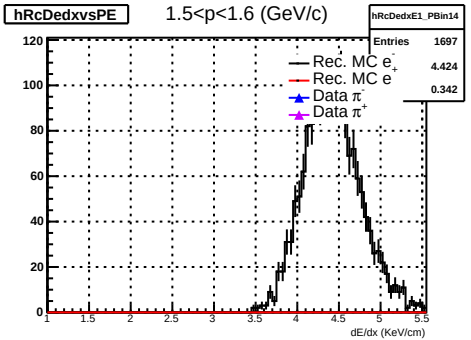

hRcDedxvsPE
1.0<p<1.1 (GeV/c)
hRcDedxE1_PBin9
Entries 1717
4.409
0.342
Rec. MC e-
Rec. MC e+
Data π-
Data π+
dE/dx (KeV/cm)

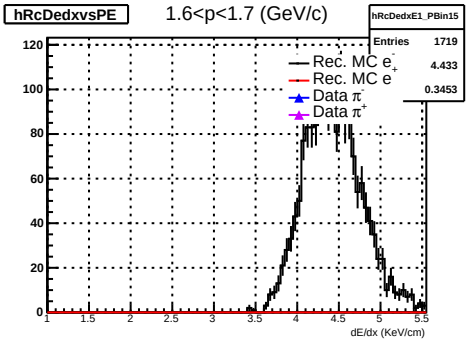

hRcDedxvsPE
1.1<p<1.2 (GeV/c)
hRcDedxE1_PBin10
Entries 1748
Rec. MC e-
4.414
Rec. MC e+
0.3546
Data π-
Data π+
dE/dx (KeV/cm)

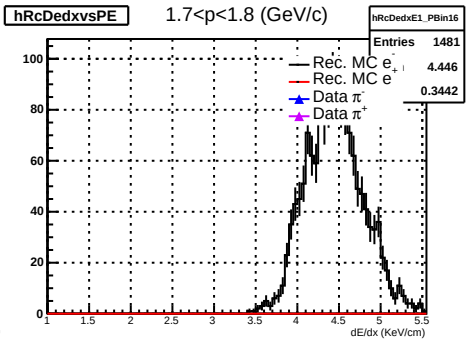

hRcDedxvsPE
1.2<p<1.3 (GeV/c)
hRcDedxE1_PBin11
Entries 1427
Rec. MC e-
4.411
Rec. MC e+
0.3689
Data π-
Data π+
dE/dx (KeV/cm)

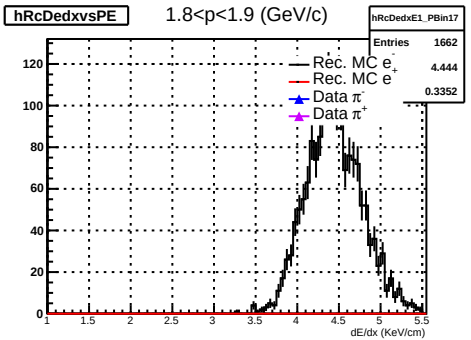

hRcDedxvsPE
1.3<p<1.4 (GeV/c)
hRcDedxE1_PBin12
Entries 1751
Rec. MC e-
4.409
Rec. MC e+
0.3356
Data π-
Data π+
dE/dx (KeV/cm)

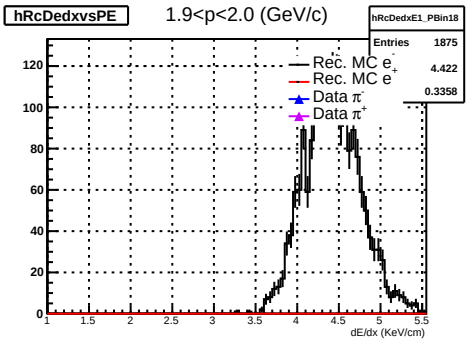

hRcDedxvsPE
1.4<p<1.5 (GeV/c)
hRcDedxE1_PBin13
Entries 2009
Rec. MC e-
4.409
Rec. MC e+
0.3549
Data π-
Data π+
dE/dx (KeV/cm)

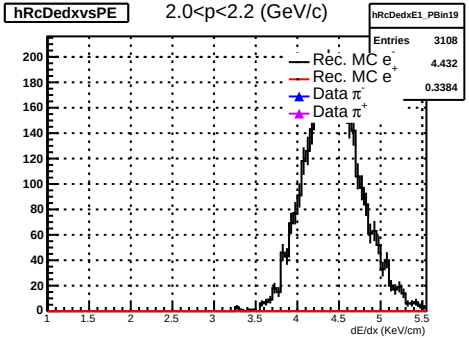

hRcDedxvsPE
1.5<p<1.6 (GeV/c)
hRcDedxE1_PBin14
Entries 1697
Rec. MC e-
4.424
Rec. MC e+
0.342
Data π-
Data π+
dE/dx (KeV/cm)

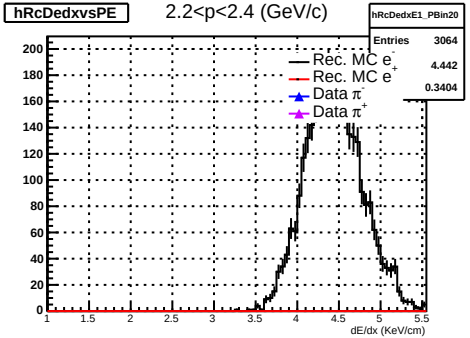

hRcDedxvsPE
1.6<p<1.7 (GeV/c)
hRcDedxE1_PBin15
Entries 1719
Rec. MC e-
4.433
Rec. MC e+
0.3453
Data π-
Data π+
dE/dx (KeV/cm)

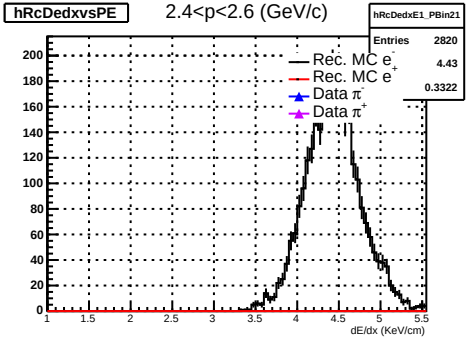

hRcDedxvsPE
1.7<p<1.8 (GeV/c)
hRcDedxE1_PBin16
Entries 1481
Rec. MC e-
4.446
Rec. MC e+
0.3442
Data π-
Data π+
dE/dx (KeV/cm)

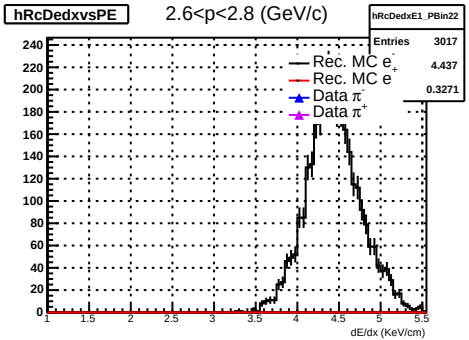

hRcDedxvsPE
1.8<p<1.9 (GeV/c)
hRcDedxE1_PBin17
Entries 1662
Rec. MC e-
4.444
Rec. MC e+
0.3352
Data π-
Data π+
dE/dx (KeV/cm)

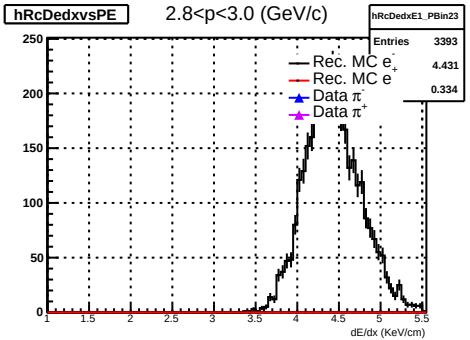

hRcDedxvsPE
1.9<p<2.0 (GeV/c)
hRcDedxE1_PBin18
Entries 1875
Rec. MC e-
4.422
Rec. MC e+
0.3358
Data π-
Data π+
dE/dx (KeV/cm)

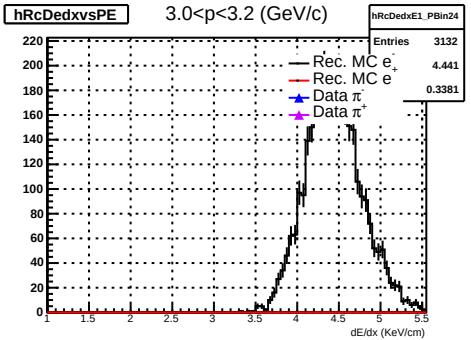

hRcDedxvsPE
2.0<p<2.2 (GeV/c)
hRcDedxE1_PBin19
Entries 3108
4.432
0.3384
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

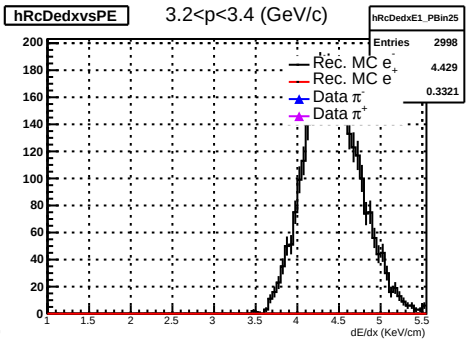

hRcDedxvsPE
2.2<p<2.4 (GeV/c)
hRcDedxE1_PBin20
Entries 3064
4.442
0.3404
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

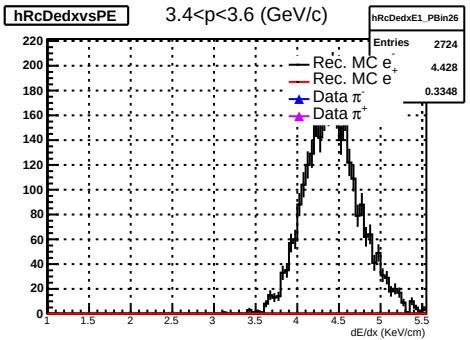

hRcDedxvsPE
2.4<p<2.6 (GeV/c)
hRcDedxE1_PBin21
Entries 2820
4.43
0.3322
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

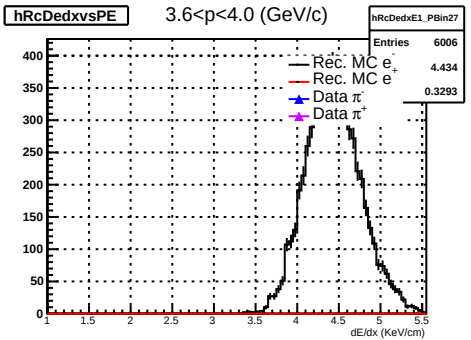

hRcDedxvsPE
2.6<p<2.8 (GeV/c)
hRcDedxE1_PBin22
Entries 3017
4.437
0.3271
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

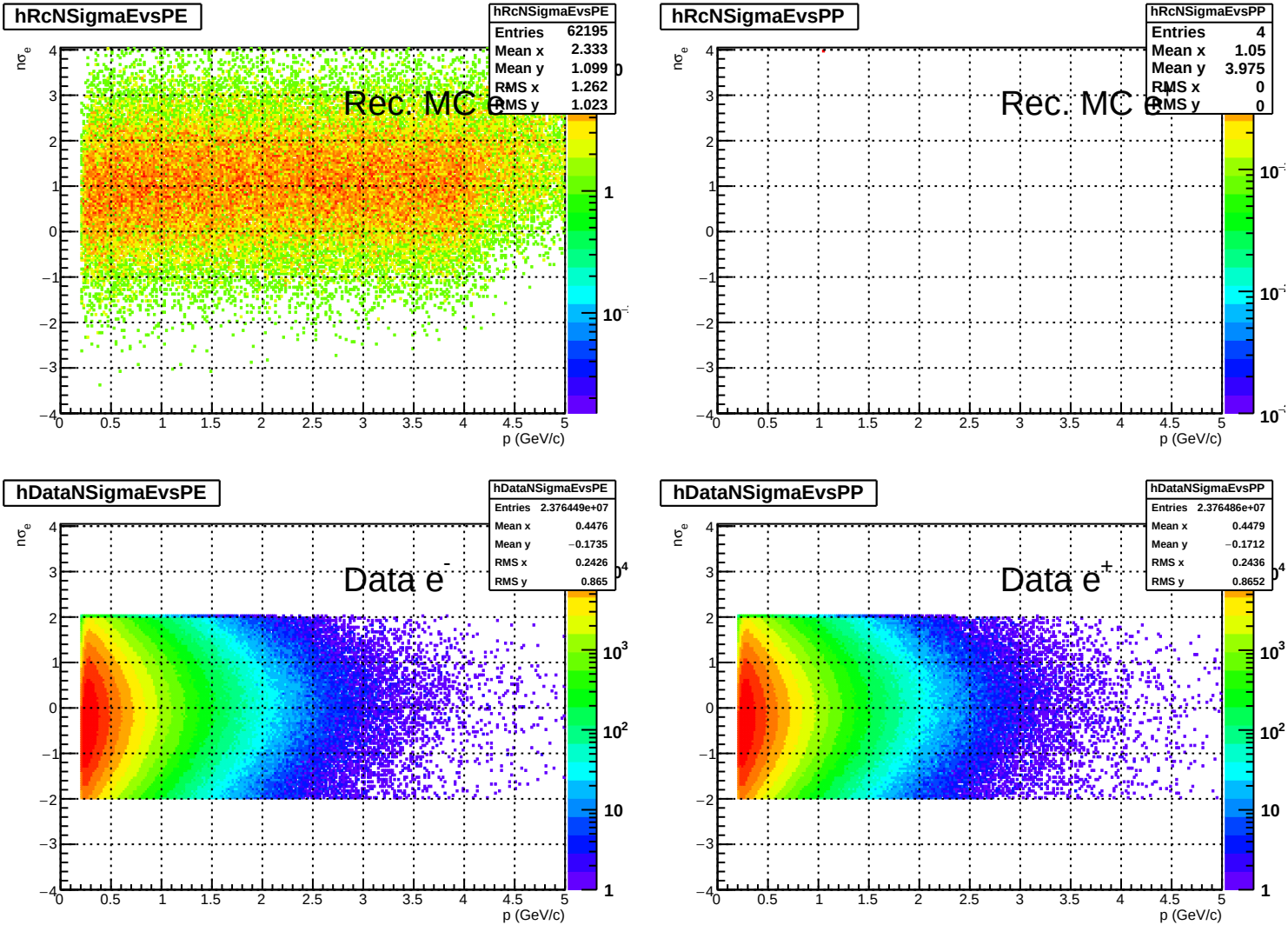

hRcDedxvsPE
2.8<p<3.0 (GeV/c)
hRcDedxE1_PBin23
Entries 3393
4.431
0.334
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

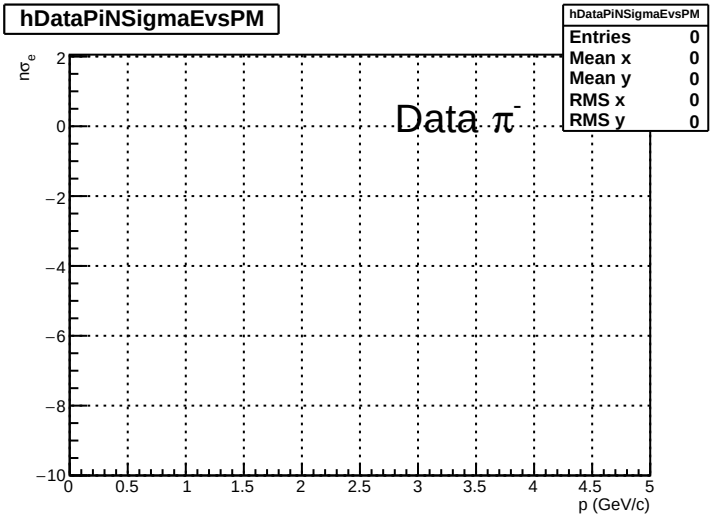

hRcDedxvsPE
3.0<p<3.2 (GeV/c)
hRcDedxE1_PBin24
Entries 3132
4.441
0.3381
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

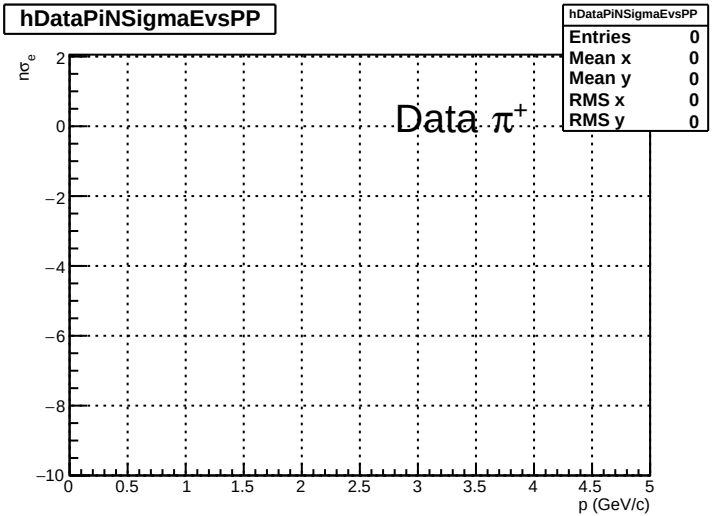

hRcDedxvsPE
3.2<p<3.4 (GeV/c)
hRcDedxE1_PBin25
Entries 2998
4.429
0.3321
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

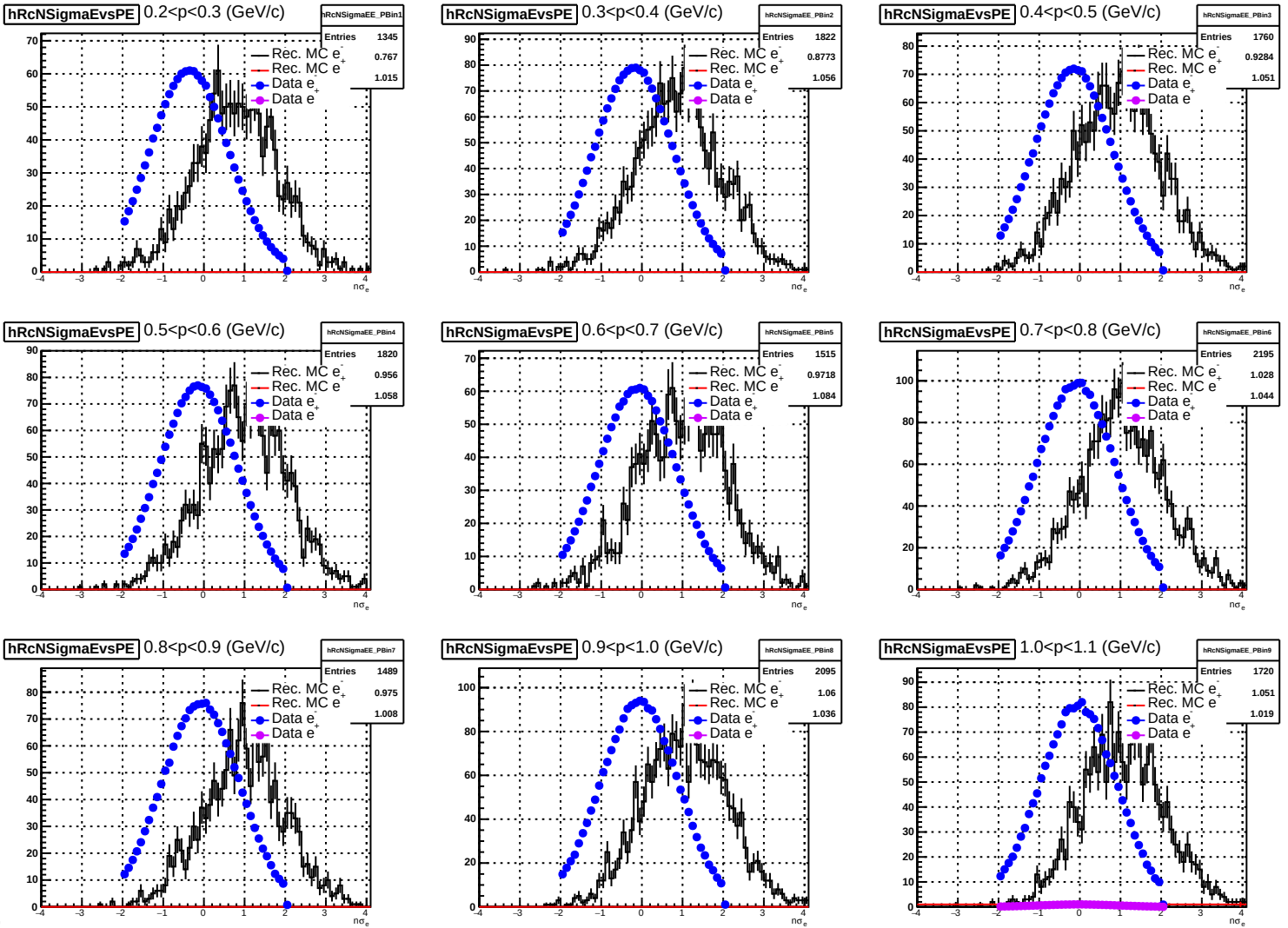

hRcDedxvsPE
3.4<p<3.6 (GeV/c)
hRcDedxE1_PBin26
Entries 2724
4.428
0.3348
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

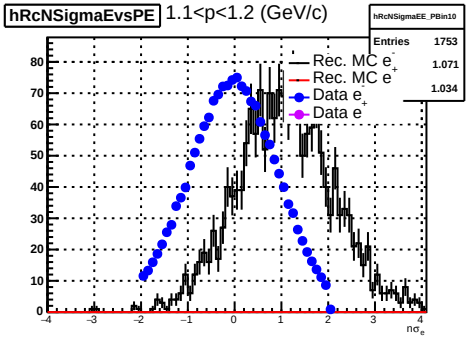

hRcDedxvsPE
3.6<p<4.0 (GeV/c)
hRcDedxE1_PBin27
Entries 6006
4.434
0.3293
Rec. MC e-+
Rec. MC e-
Data π-
Data π+
dE/dx (KeV/cm)

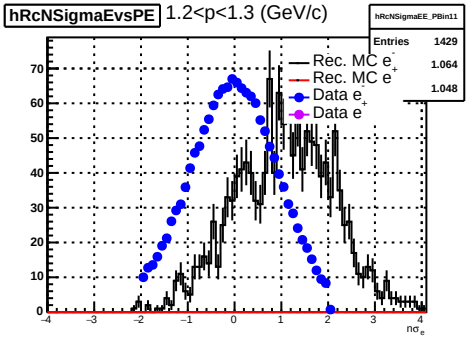

hRcNSigmaEvsPE
hRcNSigmaEvsPE
Entries 62195
Mean x 2.333
Mean y 1.099
RMS x 1.262
RMS y 1.023
Rec. MC e
nσe
p (GeV/c)
hRcNSigmaEvsPP
hRcNSigmaEvsPP
Entries 4
Mean x 1.05
Mean y 3.975
RMS x 0
RMS y 0
Rec. MC e
nσe
p (GeV/c)
hDataNSigmaEvsPE
hDataNSigmaEvsPE
Entries 2.376449e+07
Mean x 0.4476
Mean y −0.1735
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)

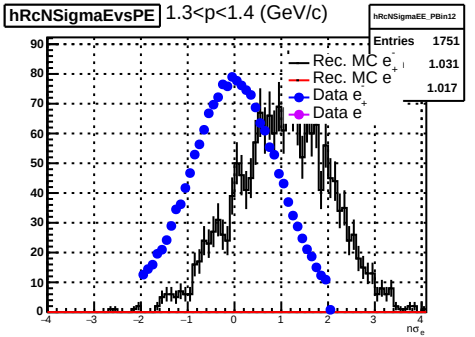

hDataPiNSigmaEvsPM
hDataPiNSigmaEvsPM
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π-
nσe
p (GeV/c)

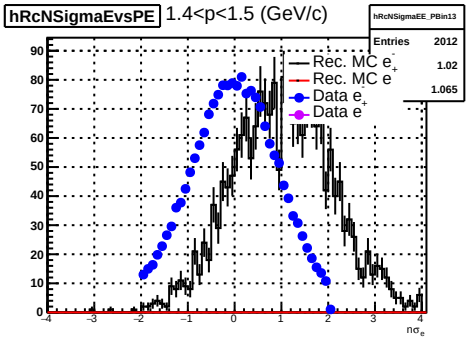

hDataPiNSigmaEvsPP
hDataPiNSigmaEvsPP
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0
Data π+
nσe
p (GeV/c)

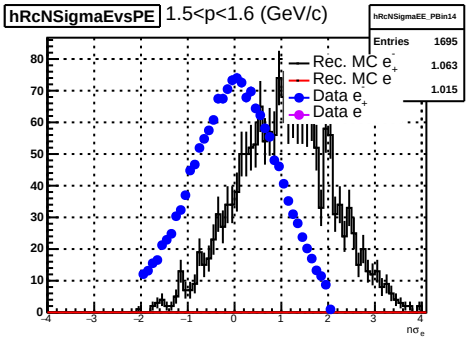

hRcNSigmaEvsPE 0.2<p<0.3 (GeV/c)
hRcNSigmaEE_PBin1
Entries 1345
0.767
1.015
hRcNSigmaEvsPE 0.3<p<0.4 (GeV/c)
hRcNSigmaEE_PBin2
Entries 1822
0.8773
1.056
hRcNSigmaEvsPE 0.4<p<0.5 (GeV/c)
hRcNSigmaEE_PBin3
Entries 1760
0.9284
1.051
hRcNSigmaEvsPE 0.5<p<0.6 (GeV/c)
hRcNSigmaEE_PBin4
Entries 1820
0.956
1.058
hRcNSigmaEvsPE 0.6<p<0.7 (GeV/c)
hRcNSigmaEE_PBin5
Entries 1515
0.9718
1.084
hRcNSigmaEvsPE 0.7<p<0.8 (GeV/c)
hRcNSigmaEE_PBin6
Entries 2195
1.028
1.044
hRcNSigmaEvsPE 0.8<p<0.9 (GeV/c)
hRcNSigmaEE_PBin7
Entries 1489
0.975
1.008
hRcNSigmaEvsPE 0.9<p<1.0 (GeV/c)
hRcNSigmaEE_PBin8
Entries 2095
1.06
1.036
hRcNSigmaEvsPE 1.0<p<1.1 (GeV/c)
hRcNSigmaEE_PBin9
Entries 1720
1.051
1.019
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

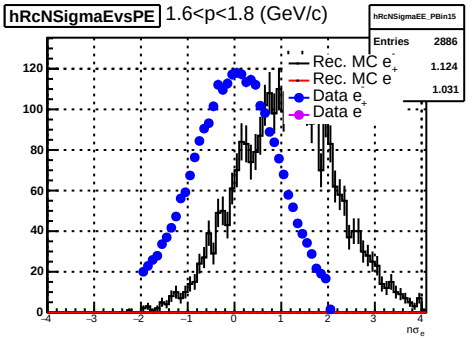

hRcNSigmaEvsPE
1.1<p<1.2 (GeV/c)
hRcNSigmaEE_PBin10
Entries 1753
1.071
1.034
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

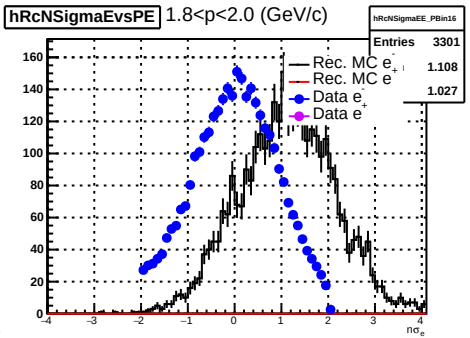

hRcNSigmaEvsPE
1.2<p<1.3 (GeV/c)
hRcNSigmaEE_PBin11
Entries 1429
1.064
1.048
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

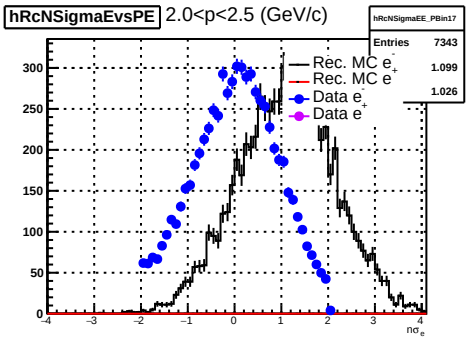

hRcNSigmaEvsPE
1.3<p<1.4 (GeV/c)
hRcNSigmaEE_PBin12
Entries 1751
1.031
1.017
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

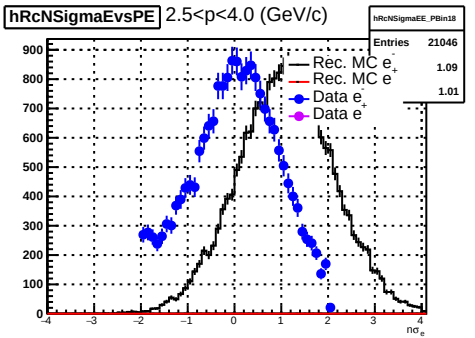

hRcNSigmaEvsPE
1.4<p<1.5 (GeV/c)
hRcNSigmaEE_PBin13
Entries 2012
1.02
1.065
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

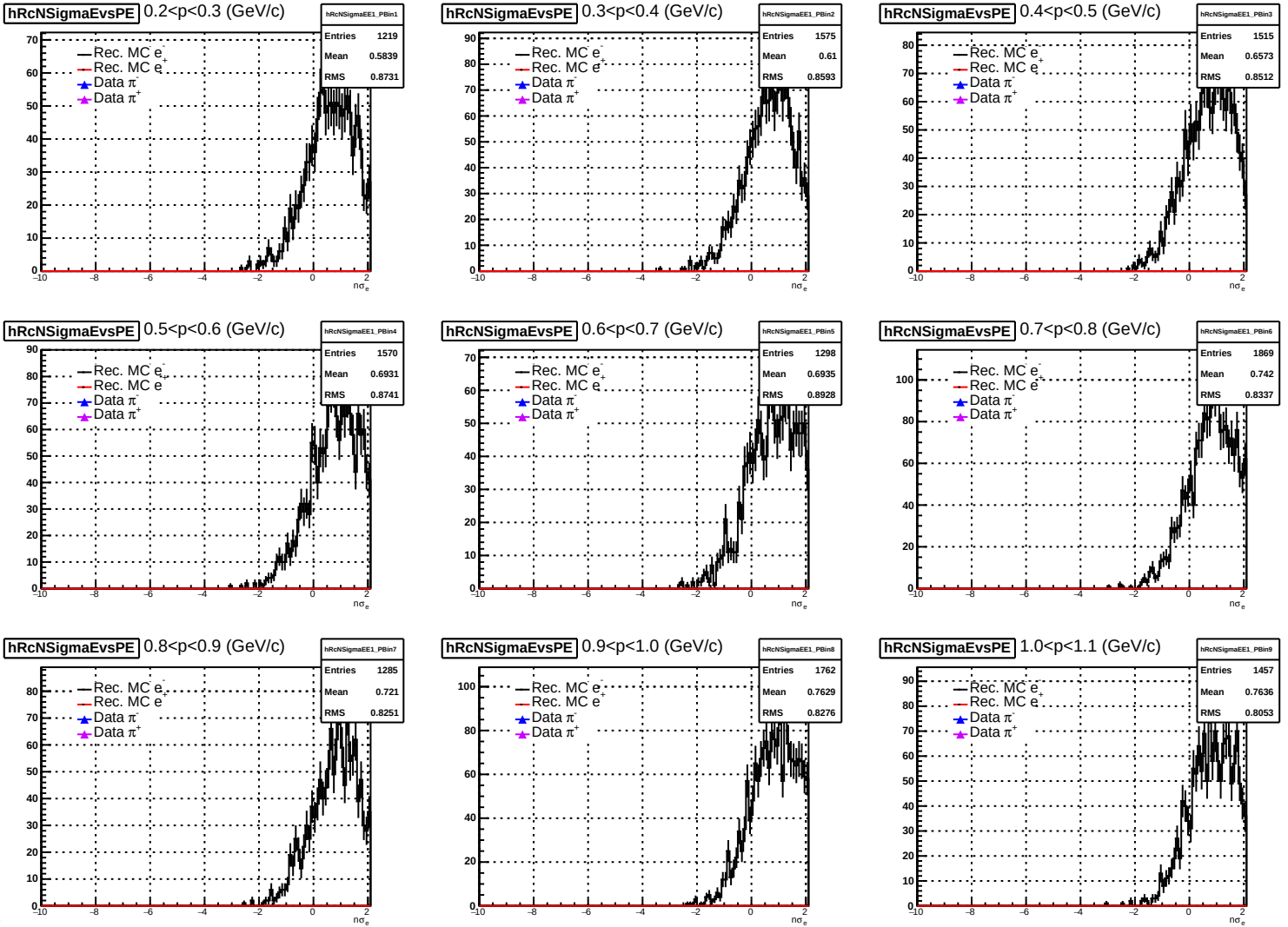

hRcNSigmaEvsPE
1.5<p<1.6 (GeV/c)
hRcNSigmaEE_PBin14
Entries 1695
1.063
1.015
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

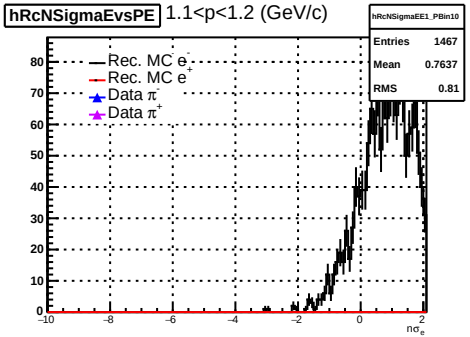

hRcNSigmaEvsPE
1.6<p<1.8 (GeV/c)
hRcNSigmaEE_PBin15
Entries 2886
1.124
1.031
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

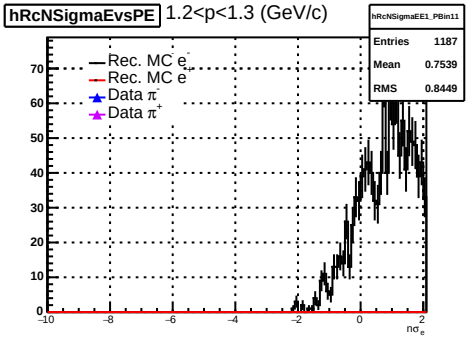

hRcNSigmaEvsPE
1.8<p<2.0 (GeV/c)
hRcNSigmaEE_PBin16
Entries 3301
1.108
1.027
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

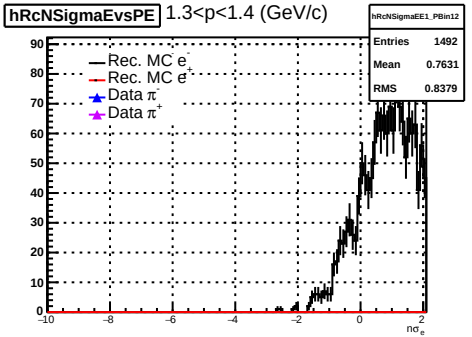

hRcNSigmaEvsPE
2.0<p<2.5 (GeV/c)
hRcNSigmaEE_PBin17
Entries 7343
1.099
1.026
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

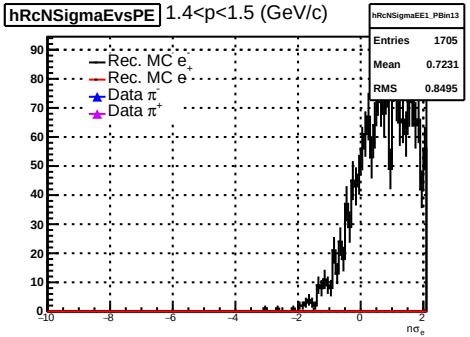

hRcNSigmaEvsPE
2.5<p<4.0 (GeV/c)
hRcNSigmaEE_PBin18
Entries 21046
1.09
1.01
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

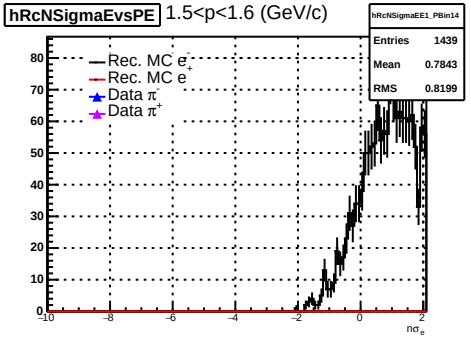

hRcNSigmaEvsPE 0.2<p<0.3 (GeV/c)
hRcNSigmaEE1_PBin1
Entries 1219
Mean 0.5839
RMS 0.8731
hRcNSigmaEvsPE 0.3<p<0.4 (GeV/c)
hRcNSigmaEE1_PBin2
Entries 1575
Mean 0.61
RMS 0.8593
hRcNSigmaEvsPE 0.4<p<0.5 (GeV/c)
hRcNSigmaEE1_PBin3
Entries 1515
Mean 0.6573
RMS 0.8512
hRcNSigmaEvsPE 0.5<p<0.6 (GeV/c)
hRcNSigmaEE1_PBin4
Entries 1570
Mean 0.6931
RMS 0.8741
hRcNSigmaEvsPE 0.6<p<0.7 (GeV/c)
hRcNSigmaEE1_PBin5
Entries 1298
Mean 0.6935
RMS 0.8928
hRcNSigmaEvsPE 0.7<p<0.8 (GeV/c)
hRcNSigmaEE1_PBin6
Entries 1869
Mean 0.742
RMS 0.8337
hRcNSigmaEvsPE 0.8<p<0.9 (GeV/c)
hRcNSigmaEE1_PBin7
Entries 1285
Mean 0.721
RMS 0.8251
hRcNSigmaEvsPE 0.9<p<1.0 (GeV/c)
hRcNSigmaEE1_PBin8
Entries 1762
Mean 0.7629
RMS 0.8276
hRcNSigmaEvsPE 1.0<p<1.1 (GeV/c)
hRcNSigmaEE1_PBin9
Entries 1457
Mean 0.7636
RMS 0.8053
Rec. MC e^-
Rec. MC e^+
Data π^-
Data π^+
$n\sigma_e$

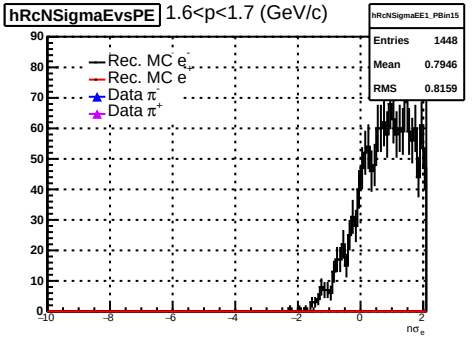

hRcNSigmaEvsPE
1.1<p<1.2 (GeV/c)
hRcNSigmaEE1_PBin10
Entries 1467
Mean 0.7637
RMS 0.81
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

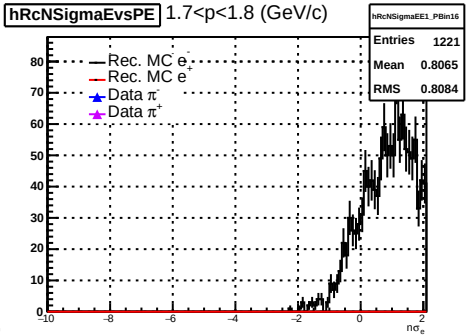

hRcNSigmaEvsPE
1.2<p<1.3 (GeV/c)
hRcNSigmaEE1_PBin11
Entries 1187
Mean 0.7539
RMS 0.8449
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

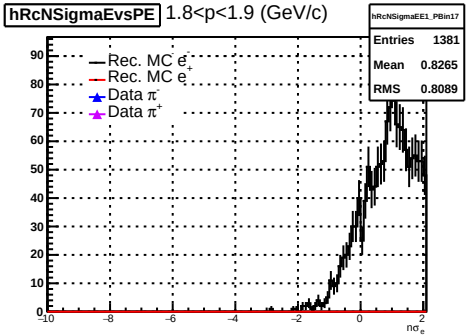

hRcNSigmaEvsPE
1.3<p<1.4 (GeV/c)
hRcNSigmaEE1_PBin12
Entries 1492
Mean 0.7631
RMS 0.8379
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

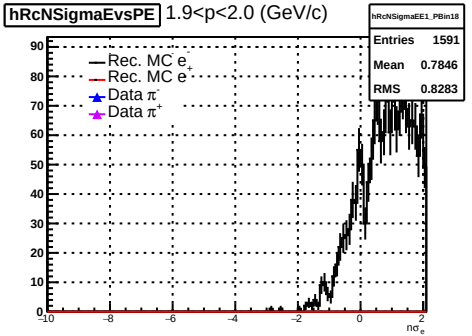

hRcNSigmaEvsPE
1.4<p<1.5 (GeV/c)
hRcNSigmaEE1_PBin13
Entries 1705
Mean 0.7231
RMS 0.8495
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

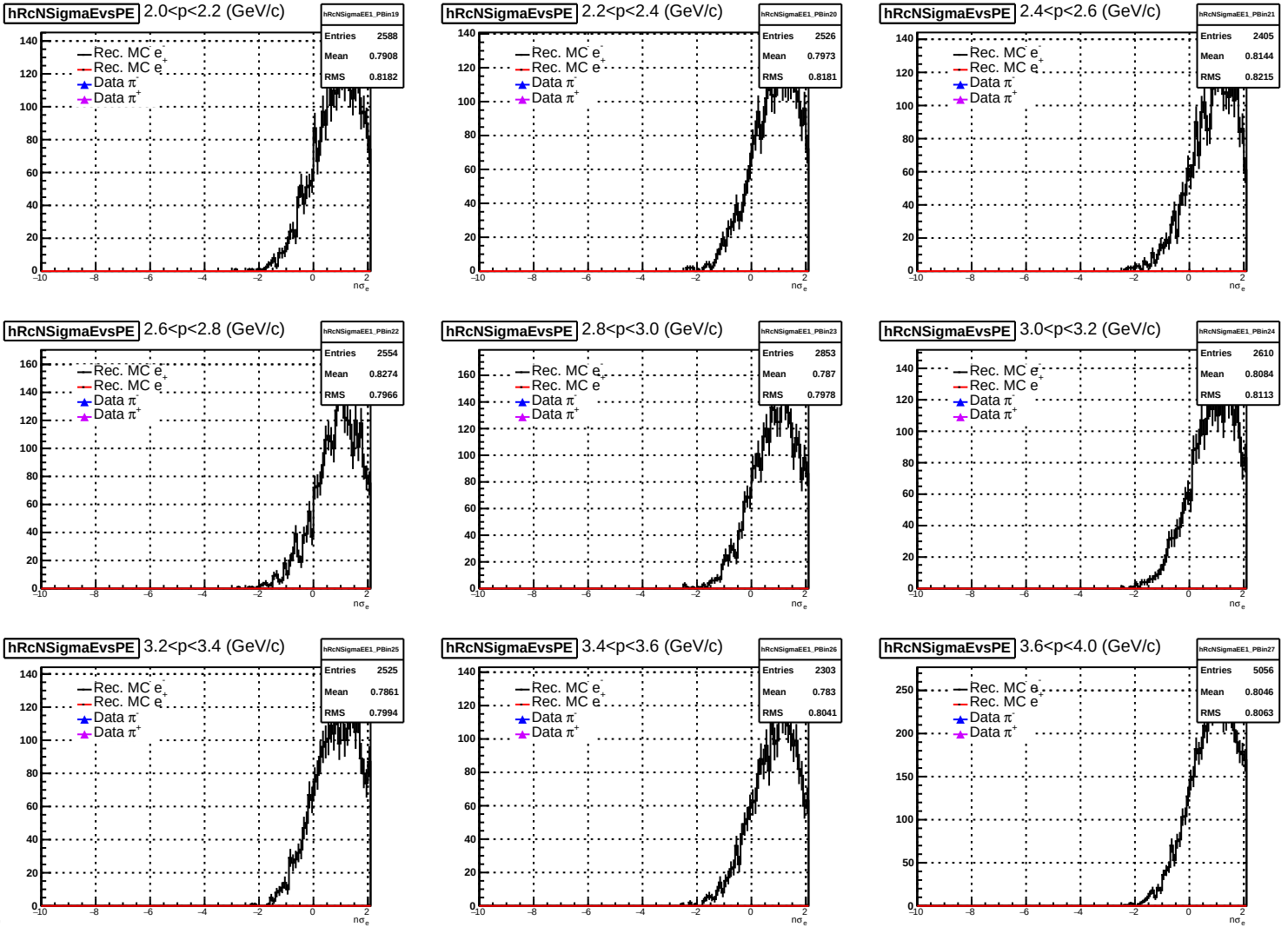

hRcNSigmaEvsPE
1.5<p<1.6 (GeV/c)
hRcNSigmaEE1_PBin14
Entries 1439
Mean 0.7843
RMS 0.8199
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
1.6<p<1.7 (GeV/c)
hRcNSigmaEE1_PBin15
Entries 1448
Mean 0.7946
RMS 0.8159
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
1.7<p<1.8 (GeV/c)
hRcNSigmaEE1_PBin16
Entries 1221
Mean 0.8065
RMS 0.8084
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
1.8<p<1.9 (GeV/c)
hRcNSigmaEE1_PBin17
Entries 1381
Mean 0.8265
RMS 0.8089
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
1.9<p<2.0 (GeV/c)
hRcNSigmaEE1_PBin18
Entries 1591
Mean 0.7846
RMS 0.8283
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE 2.0<p<2.2 (GeV/c)
hRcNSigmaEE1_PBin19
Entries 2588
Mean 0.7908
RMS 0.8182
hRcNSigmaEvsPE 2.2<p<2.4 (GeV/c)
hRcNSigmaEE1_PBin20
Entries 2526
Mean 0.7973
RMS 0.8181
hRcNSigmaEvsPE 2.4<p<2.6 (GeV/c)
hRcNSigmaEE1_PBin21
Entries 2405
Mean 0.8144
RMS 0.8215
hRcNSigmaEvsPE 2.6<p<2.8 (GeV/c)
hRcNSigmaEE1_PBin22
Entries 2554
Mean 0.8274
RMS 0.7966
hRcNSigmaEvsPE 2.8<p<3.0 (GeV/c)
hRcNSigmaEE1_PBin23
Entries 2853
Mean 0.787
RMS 0.7978
hRcNSigmaEvsPE 3.0<p<3.2 (GeV/c)
hRcNSigmaEE1_PBin24
Entries 2610
Mean 0.8084
RMS 0.8113
hRcNSigmaEvsPE 3.2<p<3.4 (GeV/c)
hRcNSigmaEE1_PBin25
Entries 2525
Mean 0.7861
RMS 0.7994
hRcNSigmaEvsPE 3.4<p<3.6 (GeV/c)
hRcNSigmaEE1_PBin26
Entries 2303
Mean 0.783
RMS 0.8041
hRcNSigmaEvsPE 3.6<p<4.0 (GeV/c)
hRcNSigmaEE1_PBin27
Entries 5056
Mean 0.8046
RMS 0.8063
Rec. MC e^-
Rec. MC e^+
Data π^-
Data π^+
$n\sigma_e$

Tue Mar 12 22:36:37 2019