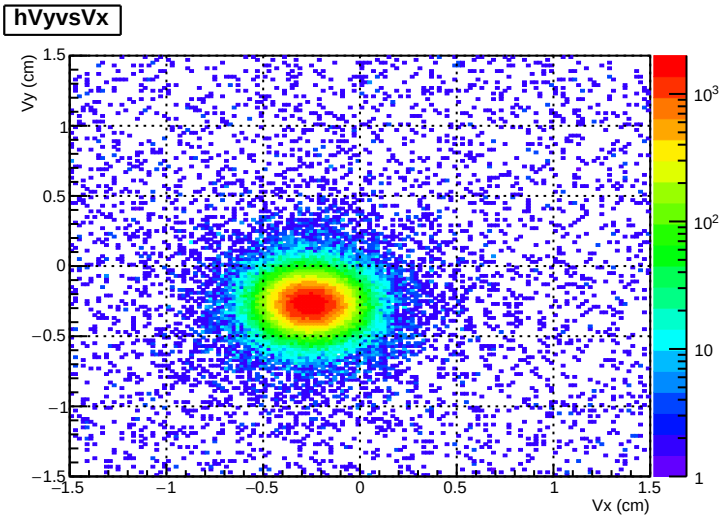
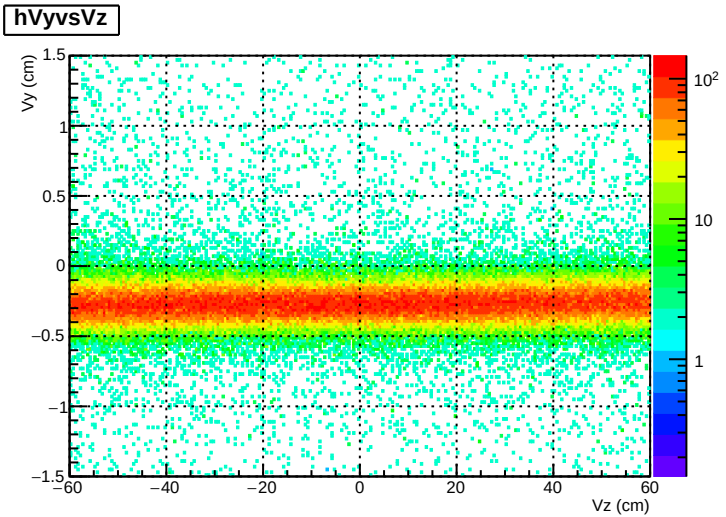
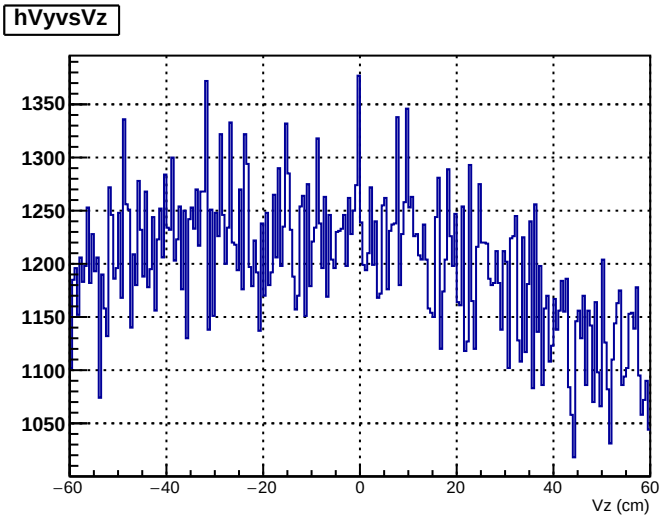
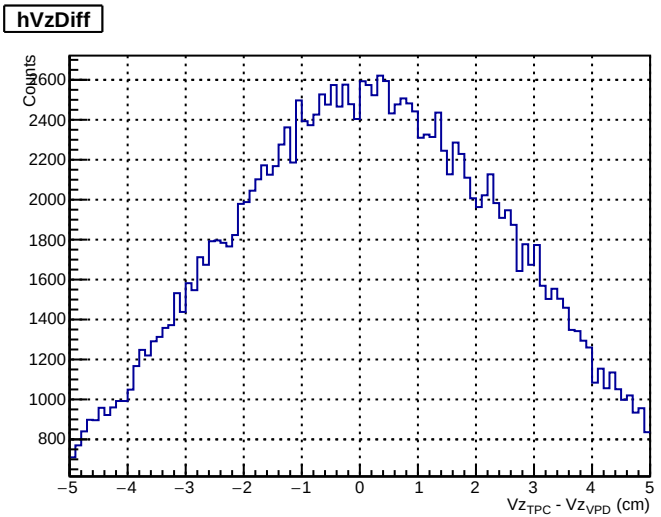
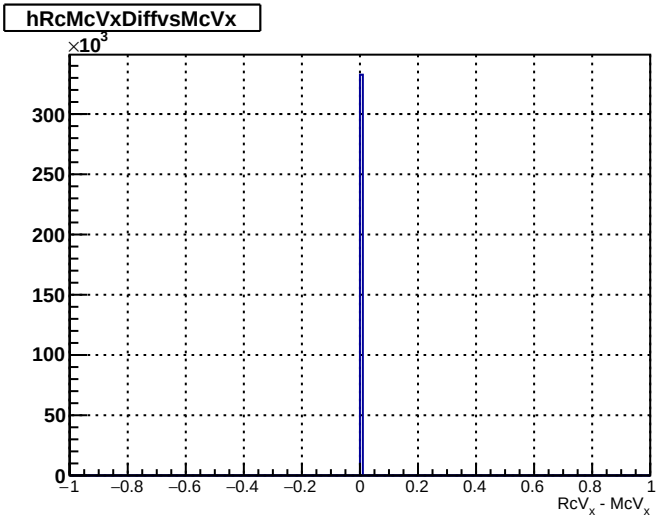
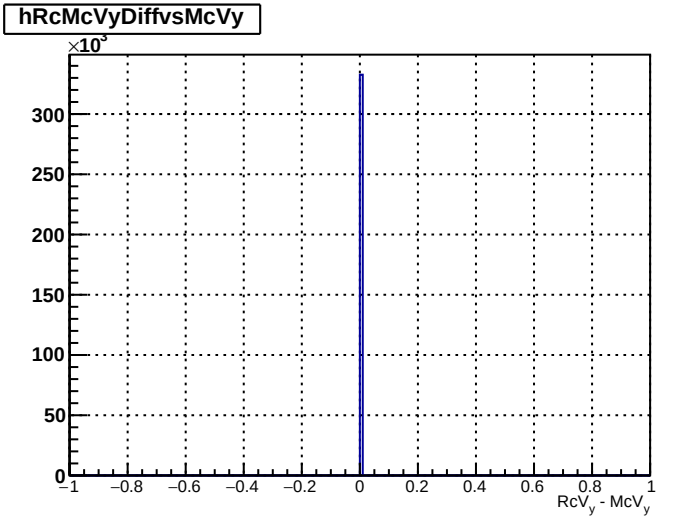

hVyvsVx
Vy (cm)
Vx (cm)

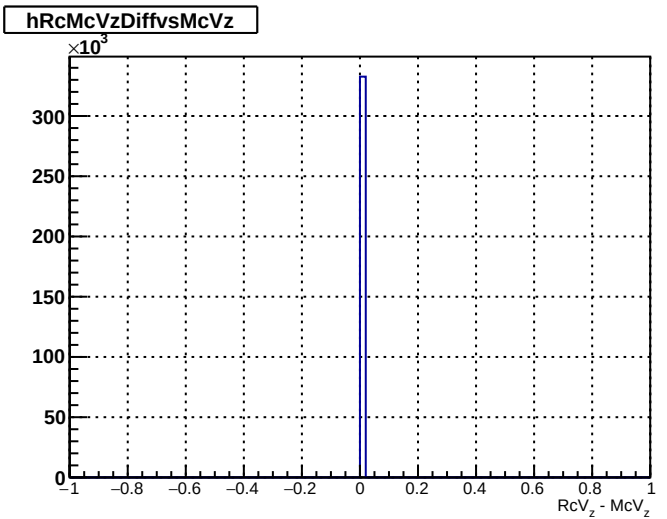

hVyvsVz
Vy (cm)
Vz (cm)


hVyvsVz
Vz (cm)

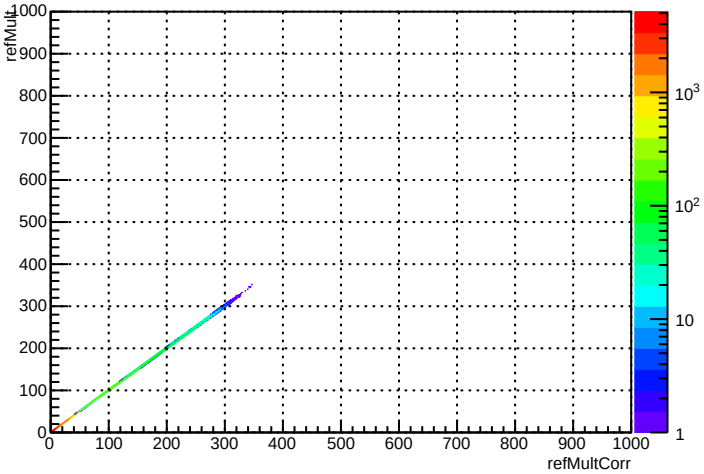

hVzDiff
Counts
Vz_TPC - Vz_VPD (cm)


hRcMcVxDiffvsMcVx
×10^3
300
250
200
150
100
50
0
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
RcV_x - McV_x

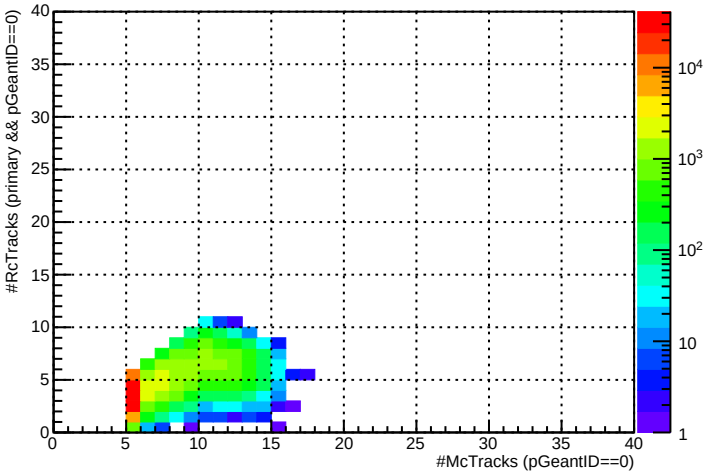

hRcMcVyDiffvsMcVy
×10^3
300
250
200
150
100
50
0
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
RcV_y - McV_y

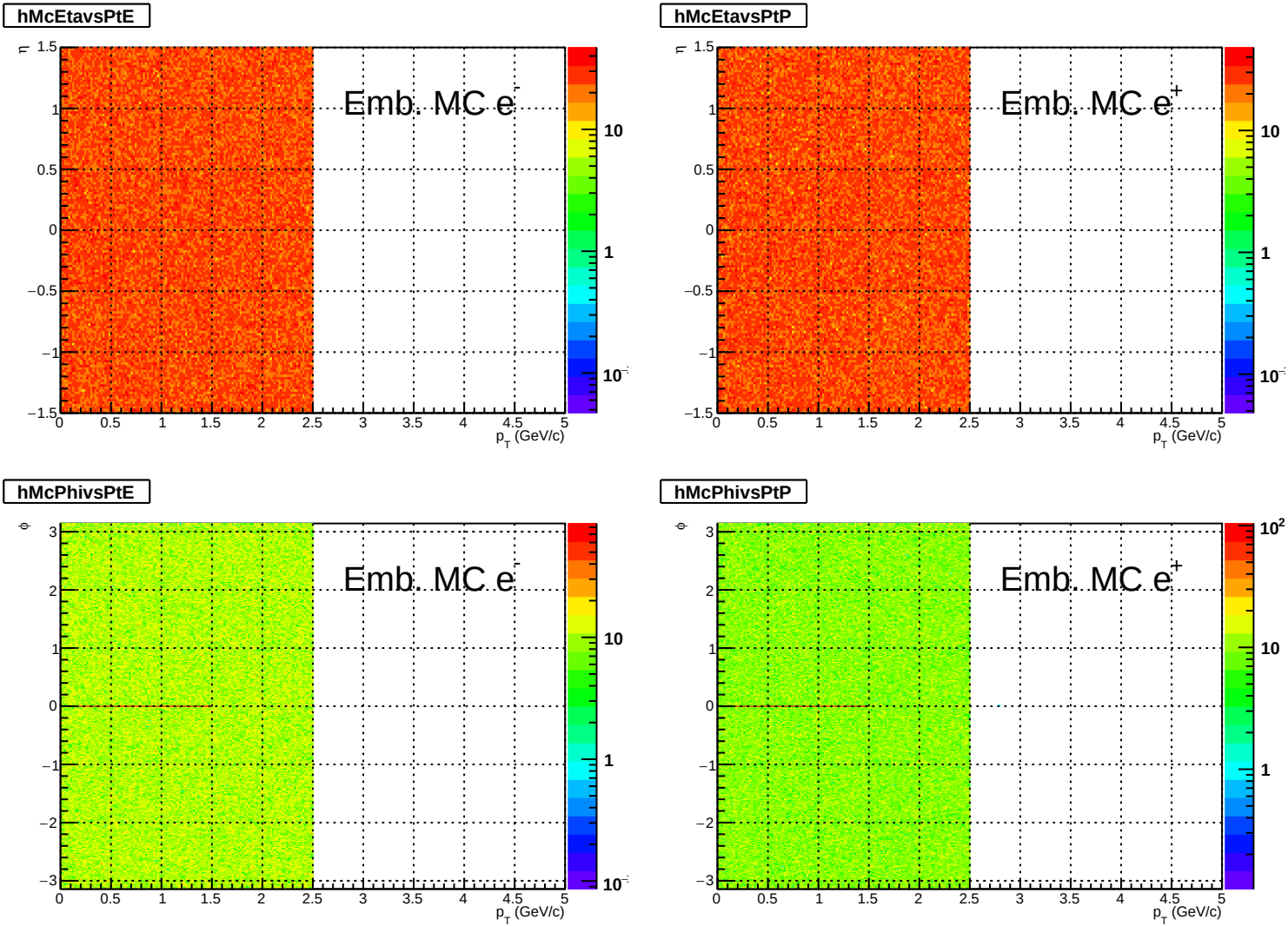

hRcMcVzDiffvsMcVz
×10^3
300
250
200
150
100
50
0
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
RcV_z - McV_z

hRefMultvsRefMultCorr

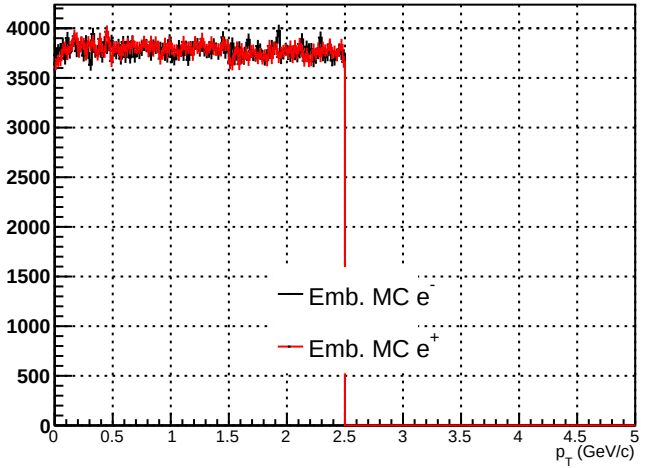


hNMatchTrksvsInputTrks

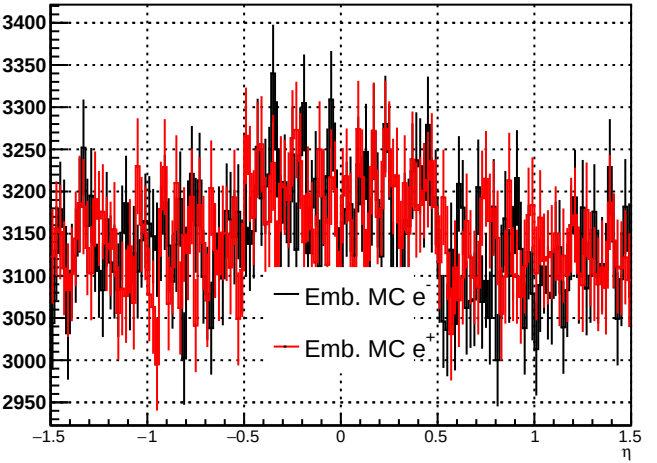



hMcEtavsPtE
Emb. MC e-
hMcEtavsPtP
Emb. MC e+
hMcPhivsPtE
Emb. MC e-
hMcPhivsPtP
Emb. MC e+
η
φ
p_T (GeV/c)

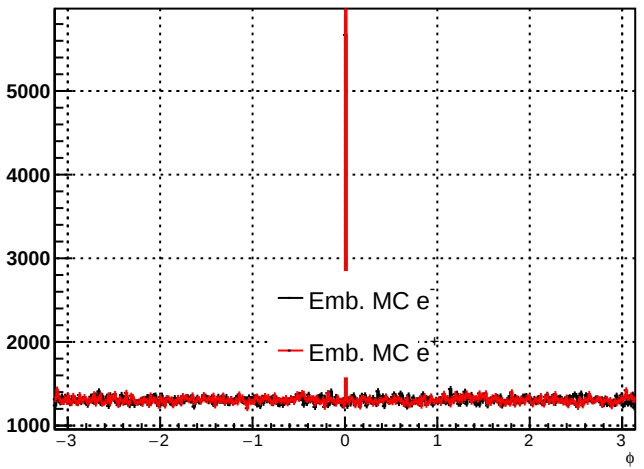
hMcEtavsPtE



hMcEtavsPtE



hMcPhivsPtE



Compare Embedded Electron and Positron with Data

Event Level Cuts:

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

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

$|V_z| < 30.0$ cm

$|VpdV_z - TpcV_z| < 3.0$ cm

Track Level Cuts:

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

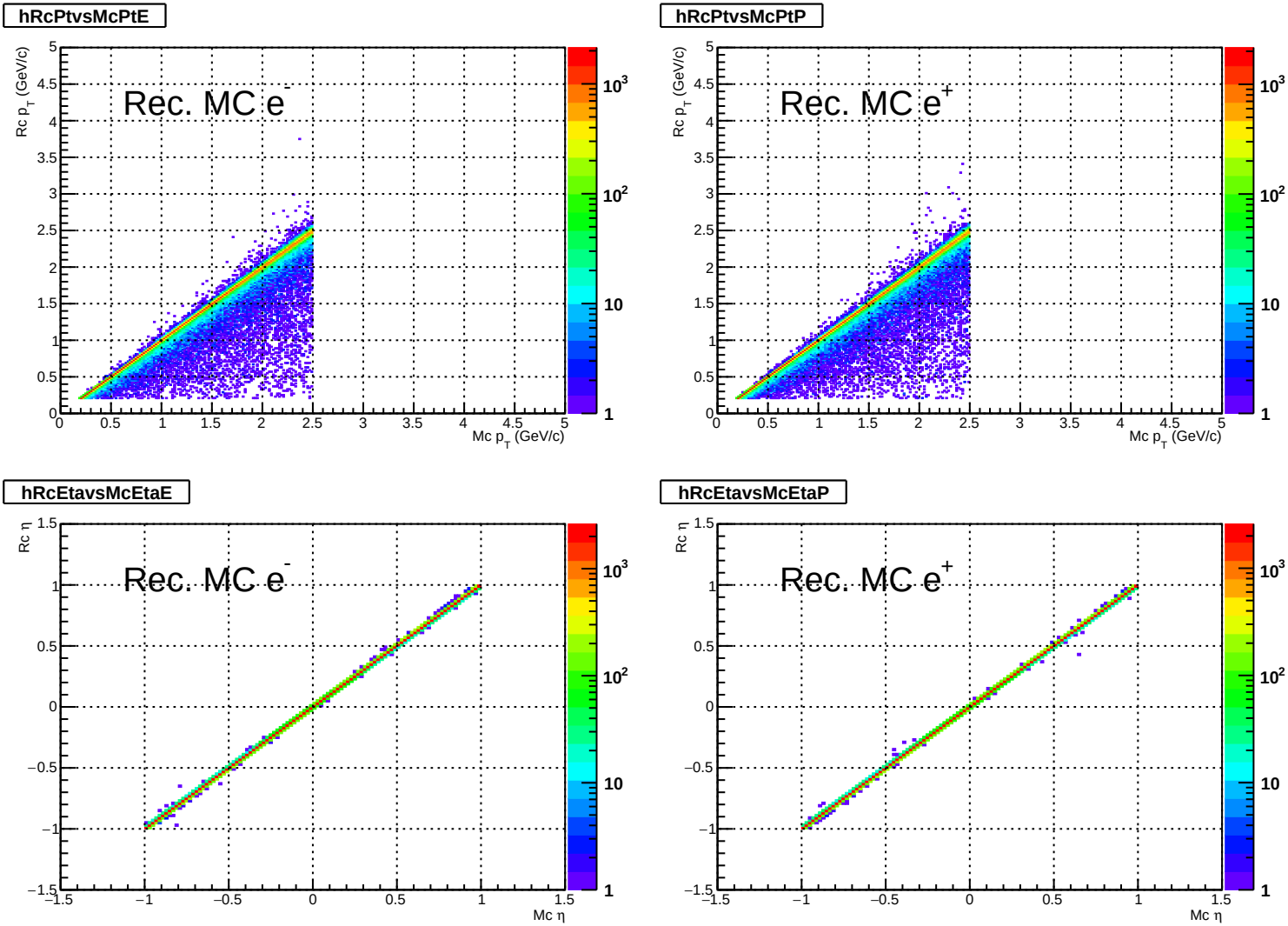
$|\eta| <= 1.0$ ratio >= 0.52 dca <= 2.5 cm

Data:

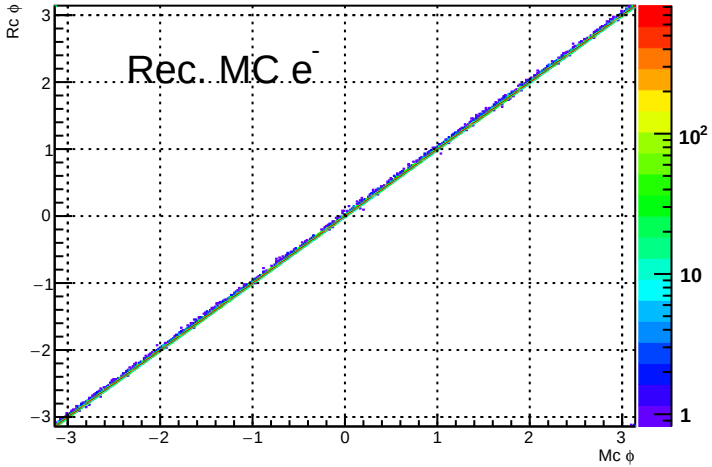
For e: $1.5625*p-2.5625<n\sigma_e<1.66$ (p<1 GeV/c) $-1.09<n\sigma_e<1.66$ (p>=1 GeV/c) $|1-1/\beta| <= 0.025$

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

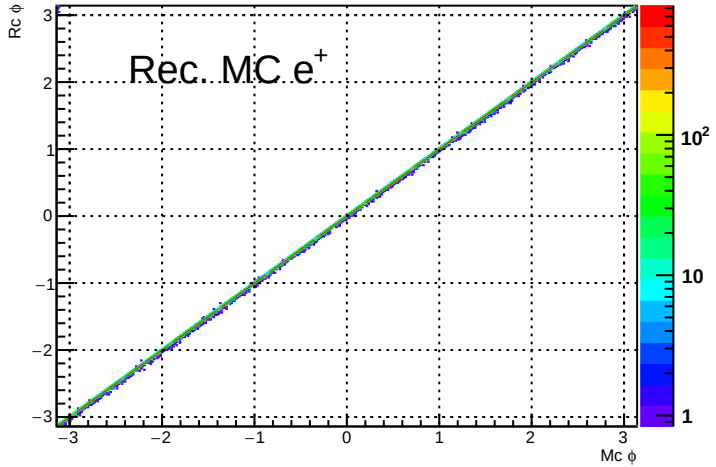
Embedding: parent GeantId == 0 $|\eta| <= 1.0$

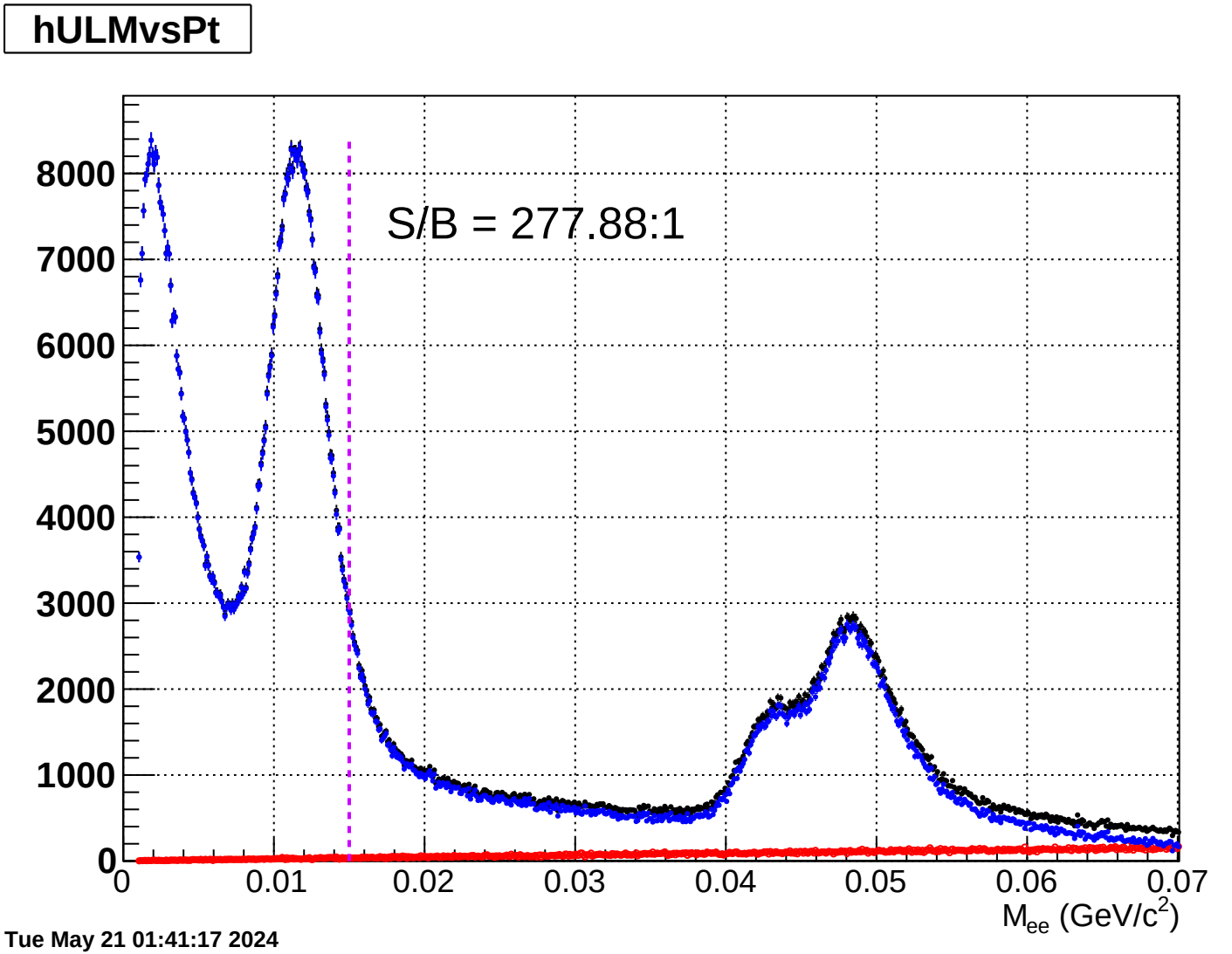

hRcPtvsMcPtE
Rec. MC e-
Rc p_T (GeV/c)
Mc p_T (GeV/c)
hRcPtvsMcPtP
Rec. MC e+
Rc p_T (GeV/c)
Mc p_T (GeV/c)
hRcEtavsMcEtaE
Rec. MC e-
Rc η
Mc η
hRcEtavsMcEtaP
Rec. MC e+
Rc η
Mc η

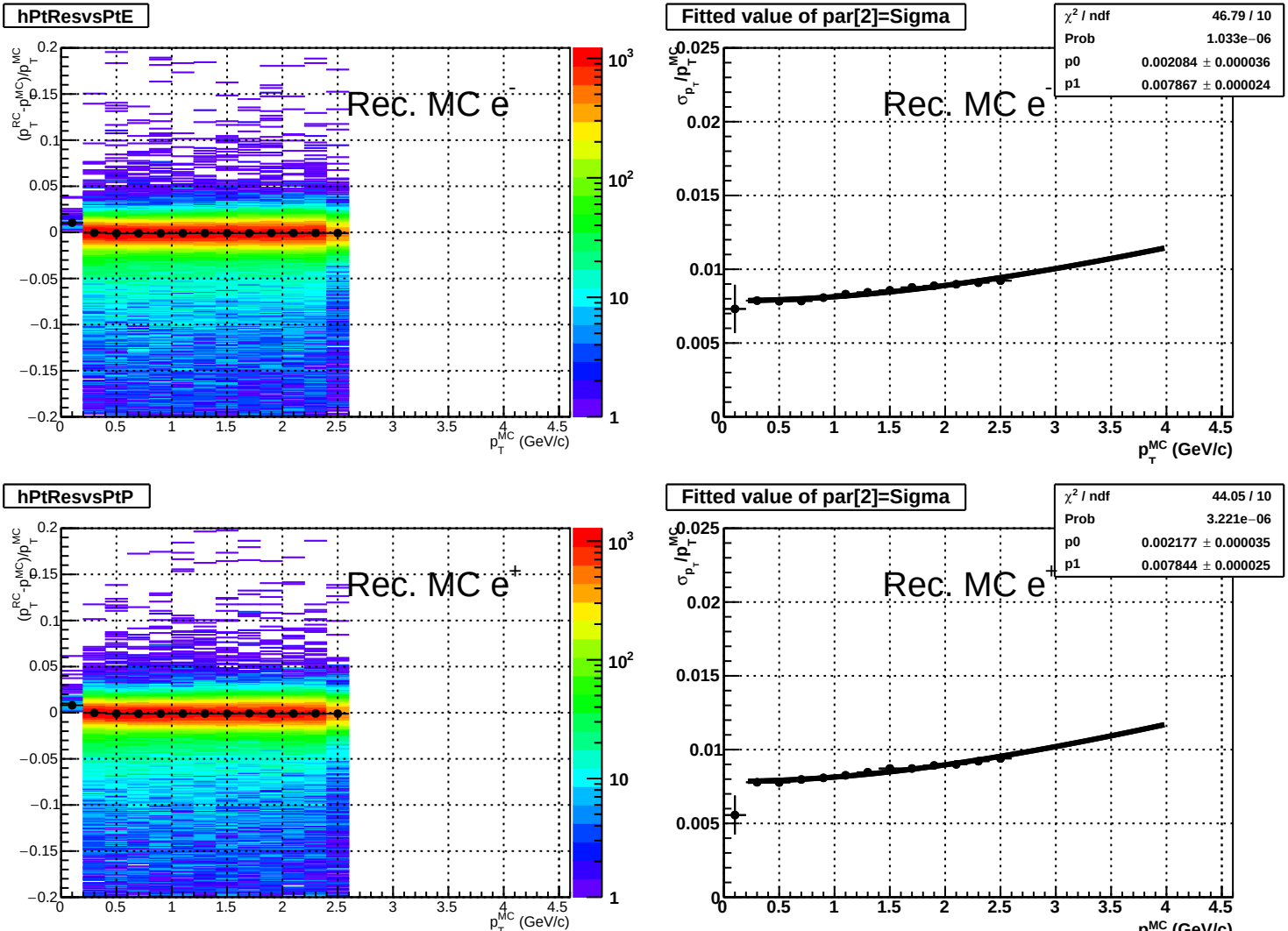
hRcPhivsMcPhiE

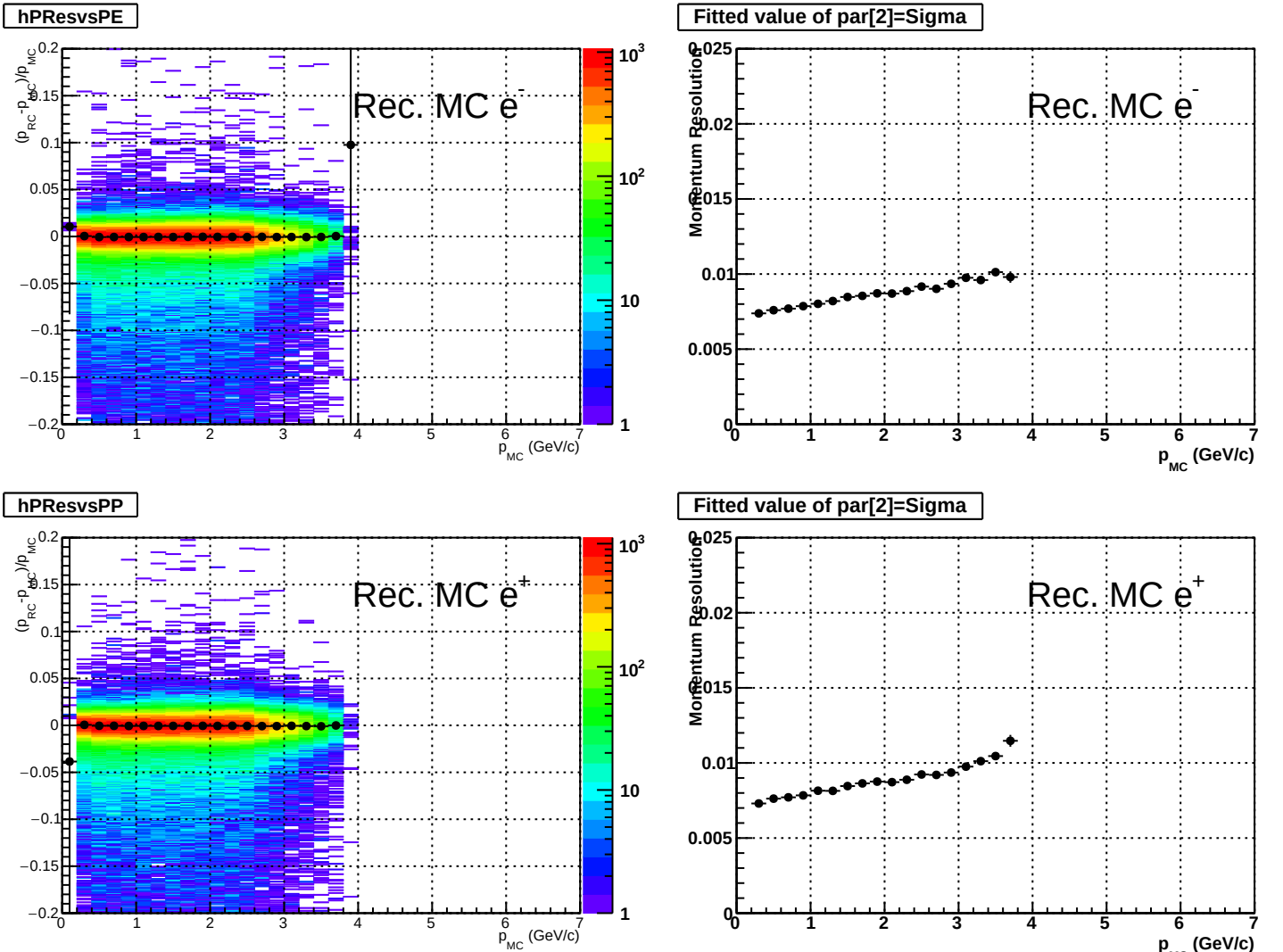


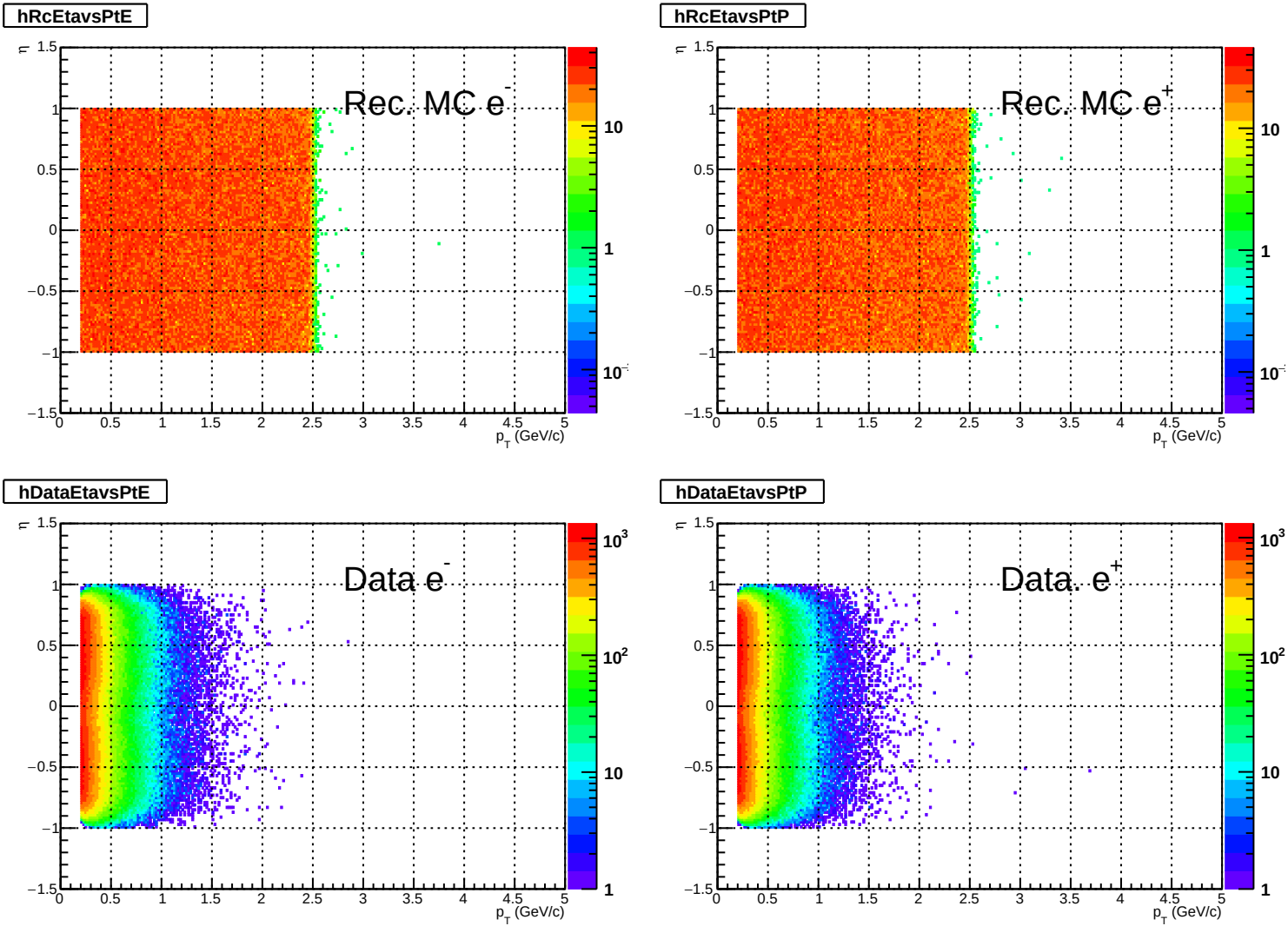
hRcPhivsMcPhiP

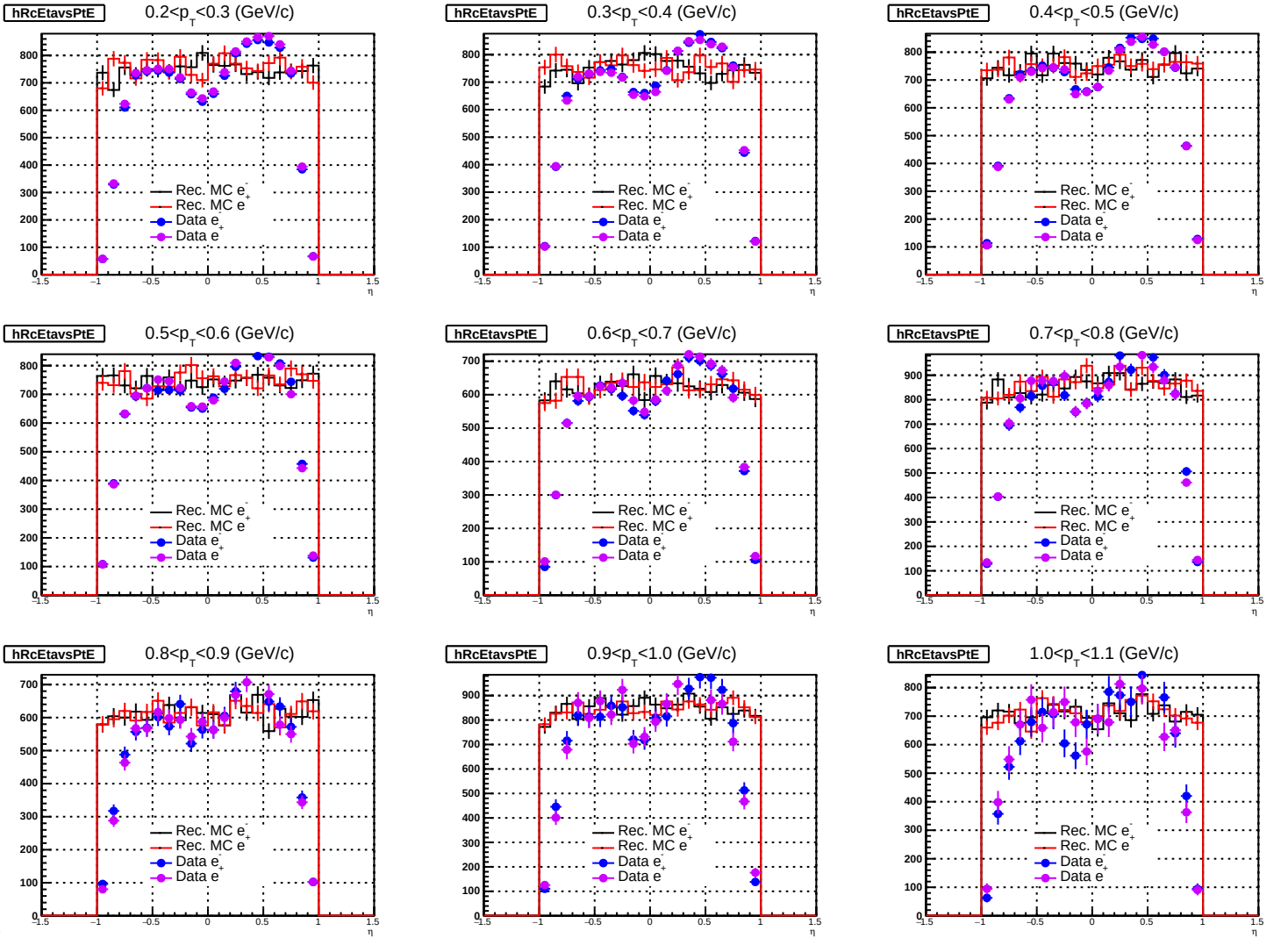


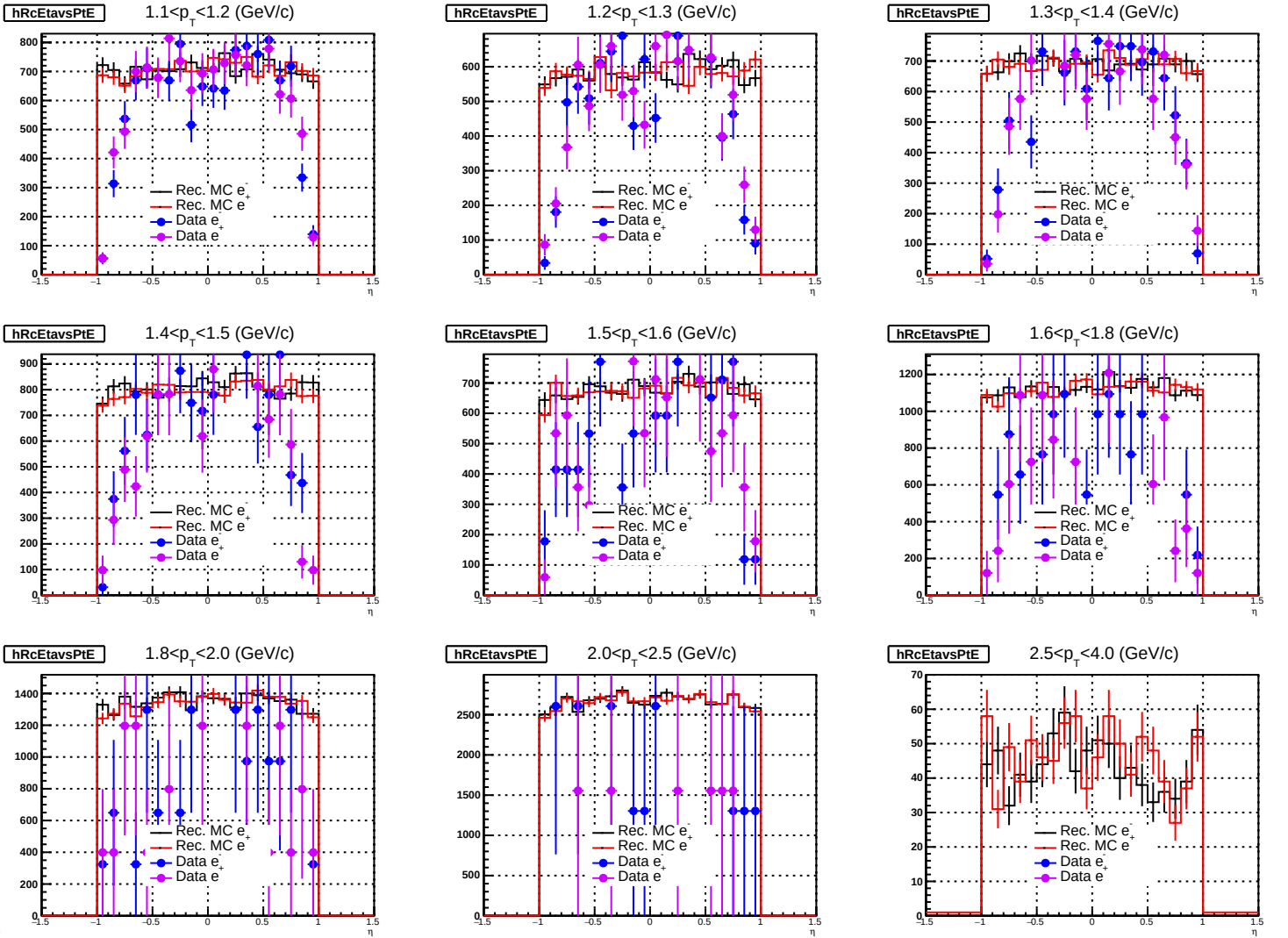

hULMvsPt
S/B = 277.88:1
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
M_{ee} (GeV/c^2)
Tue May 21 01:41:17 2024

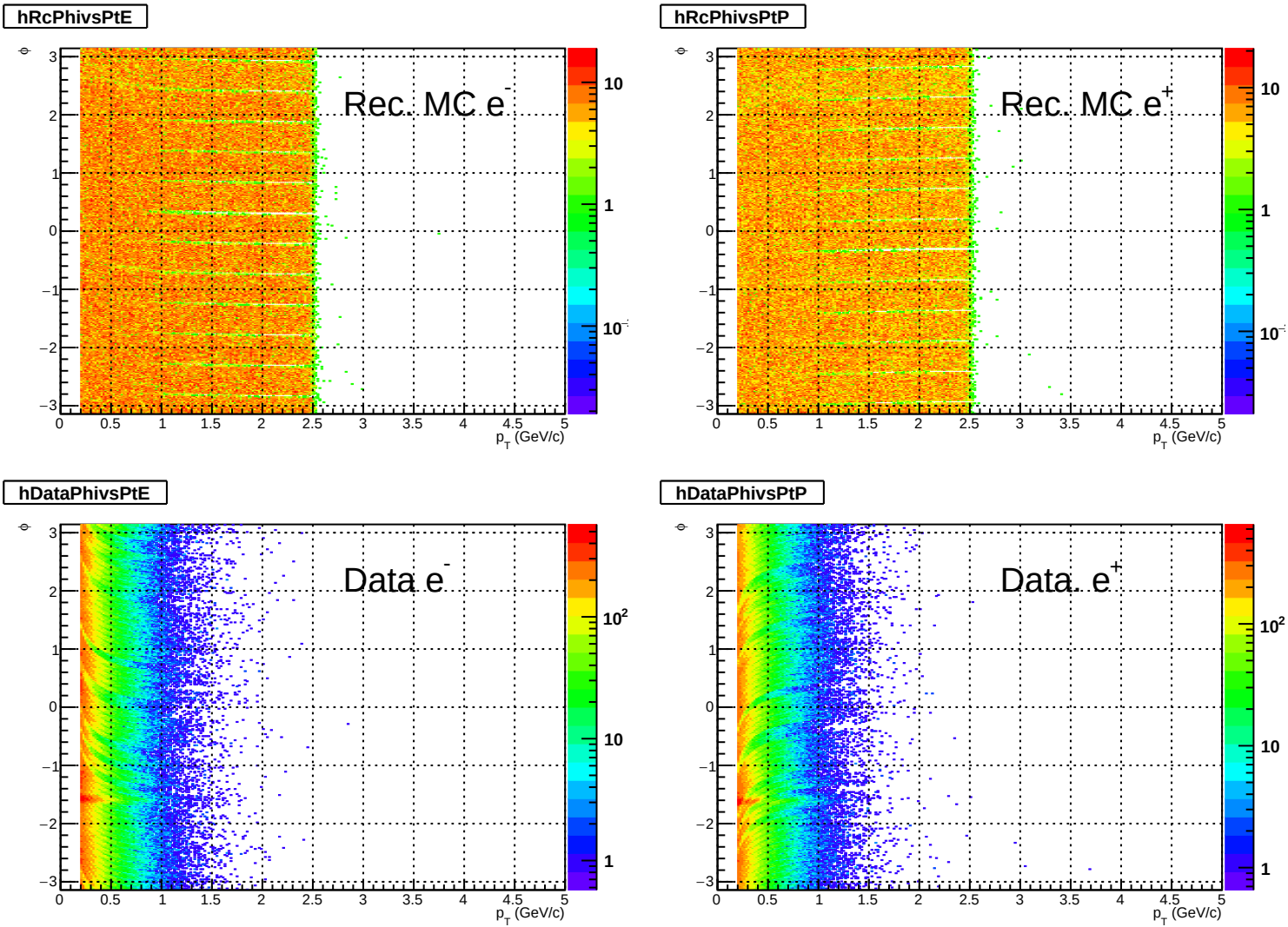

hPtResvsPtE
Rec. MC e-
$(p_T^{RC}-p_T^{MC})/p_T^{MC}$
p_T^{MC} (GeV/c)
Fitted value of par[2]=Sigma
Rec. MC e-
σ_{p_T}/p_T^{MC}
p_T^{MC} (GeV/c)
χ^2 / ndf 46.79 / 10
Prob 1.033e−06
p0 0.002084 ± 0.000036
p1 0.007867 ± 0.000024
hPtResvsPtP
Rec. MC e+
$(p_T^{RC}-p_T^{MC})/p_T^{MC}$
p_T^{MC} (GeV/c)
Fitted value of par[2]=Sigma
Rec. MC e+
σ_{p_T}/p_T^{MC}
p_T^{MC} (GeV/c)
χ^2 / ndf 44.05 / 10
Prob 3.221e−06
p0 0.002177 ± 0.000035
p1 0.007844 ± 0.000025

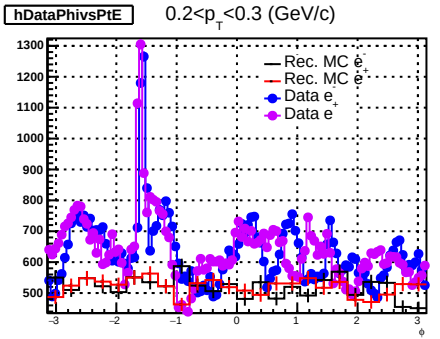

hPResvsPE
Rec. MC e-
(pRC-pMC)/pMC
pMC (GeV/c)
Fitted value of par[2]=Sigma
Rec. MC e-
Momentum Resolution
pMC (GeV/c)
hPResvsPP
Rec. MC e+
(pRC-pMC)/pMC
pMC (GeV/c)
Fitted value of par[2]=Sigma
Rec. MC e+
Momentum Resolution
pMC (GeV/c)

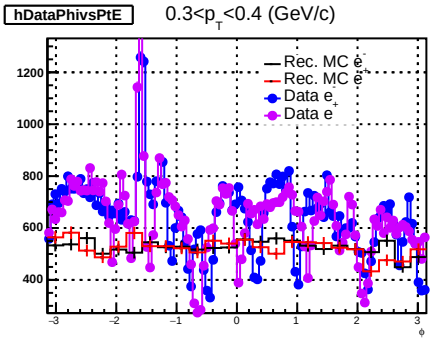

hRcEtavsPtE
Rec. MC e-
hRcEtavsPtP
Rec. MC e+
hDataEtavsPtE
Data e-
hDataEtavsPtP
Data e+
η
p_T (GeV/c)

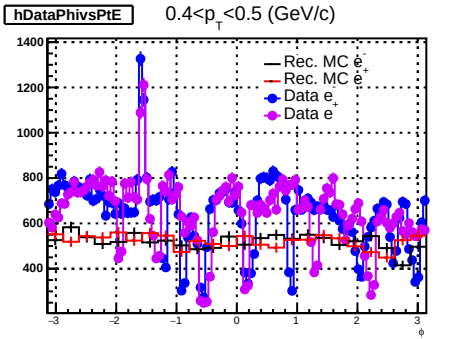

hRcEtavsPtE
0.2<p_T<0.3 (GeV/c)
0.3<p_T<0.4 (GeV/c)
0.4<p_T<0.5 (GeV/c)
0.5<p_T<0.6 (GeV/c)
0.6<p_T<0.7 (GeV/c)
0.7<p_T<0.8 (GeV/c)
0.8<p_T<0.9 (GeV/c)
0.9<p_T<1.0 (GeV/c)
1.0<p_T<1.1 (GeV/c)
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

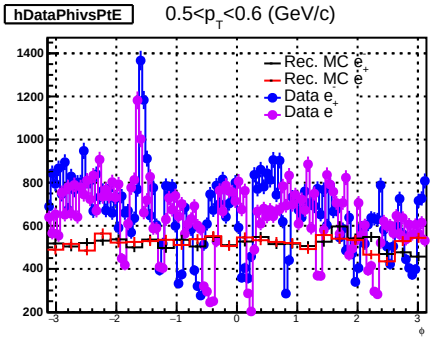

hRcEtavsPtE
1.1<p_T<1.2 (GeV/c)
1.2<p_T<1.3 (GeV/c)
1.3<p_T<1.4 (GeV/c)
1.4<p_T<1.5 (GeV/c)
1.5<p_T<1.6 (GeV/c)
1.6<p_T<1.8 (GeV/c)
1.8<p_T<2.0 (GeV/c)
2.0<p_T<2.5 (GeV/c)
2.5<p_T<4.0 (GeV/c)
Rec. MC e-+
Rec. MC e-
Data e-+
Data e-
η

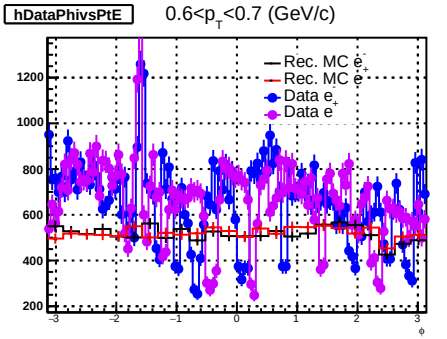

hRcPhivsPtE
Rec. MC e-
hRcPhivsPtP
Rec. MC e+
hDataPhivsPtE
Data e-
hDataPhivsPtP
Data e+
ϕ
pT (GeV/c)

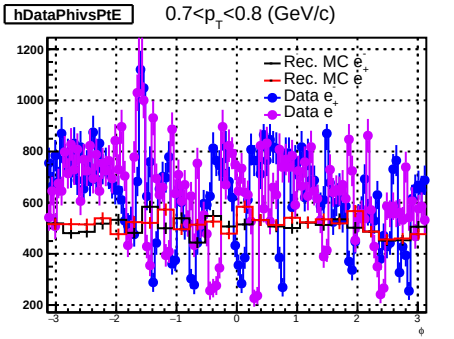

hDataPhivsPtE
0.2<p_T<0.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

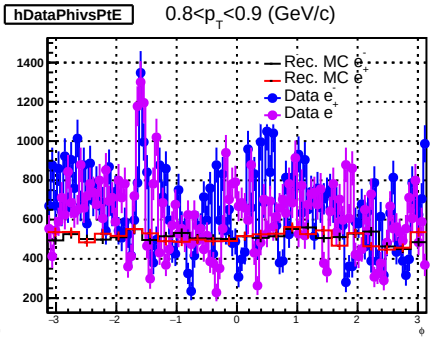

hDataPhivsPtE
0.3<p_T<0.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

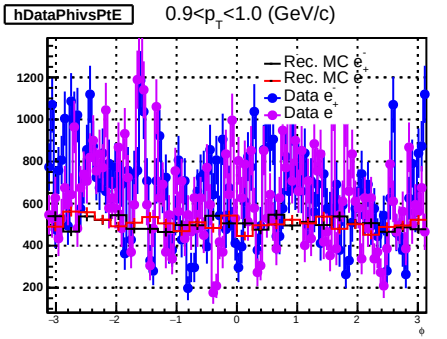

hDataPhivsPtE
0.4<p_T<0.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

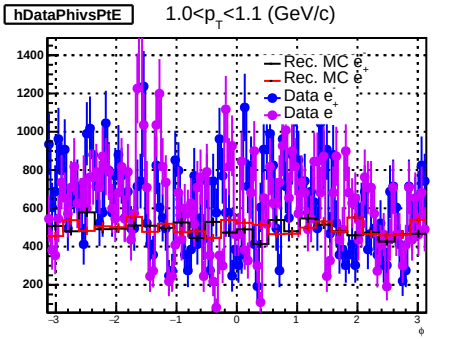

hDataPhivsPtE
0.5<p_T<0.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

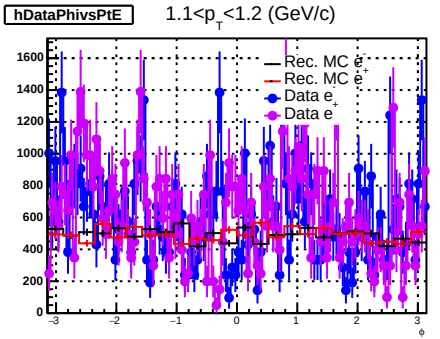

hDataPhivsPtE
0.6<p_T<0.7 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

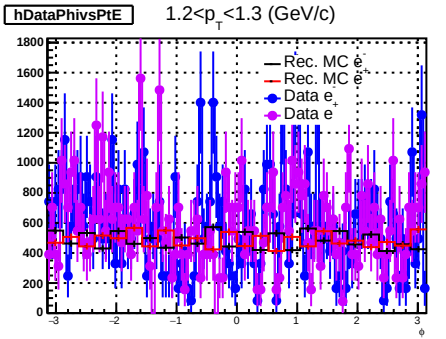

hDataPhivsPtE
0.7<p_T<0.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

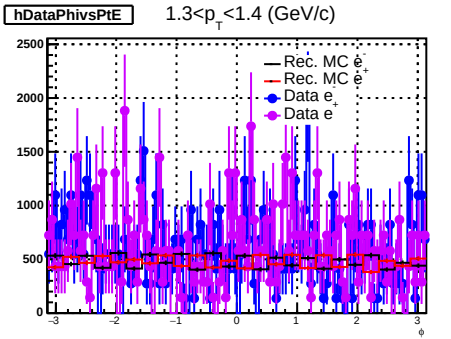

hDataPhivsPtE
0.8<p_T<0.9 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

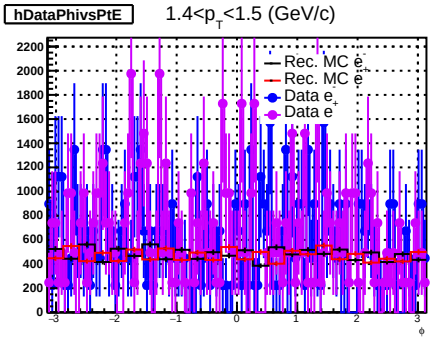

hDataPhivsPtE
0.9<p_T<1.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

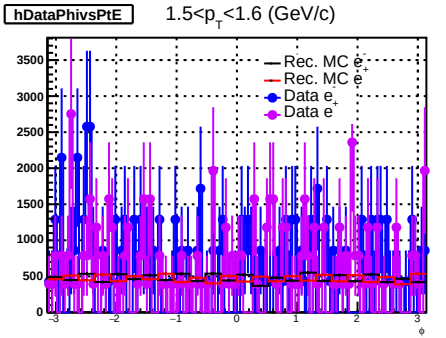

hDataPhivsPtE
1.0<p_T<1.1 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

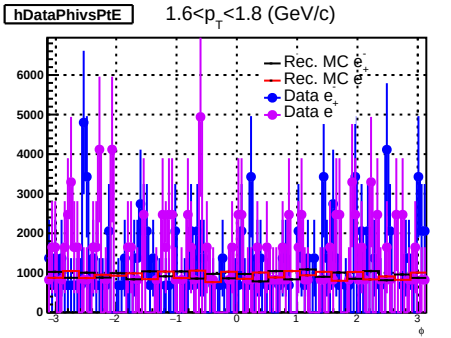

hDataPhivsPtE
1.1<p_T<1.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

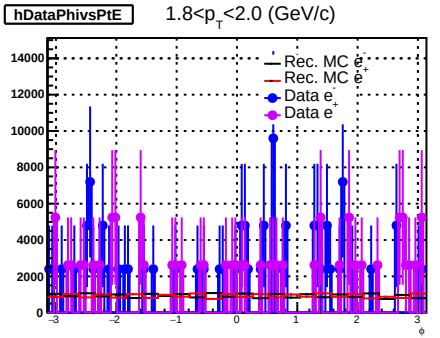

hDataPhivsPtE
1.2<p_T<1.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

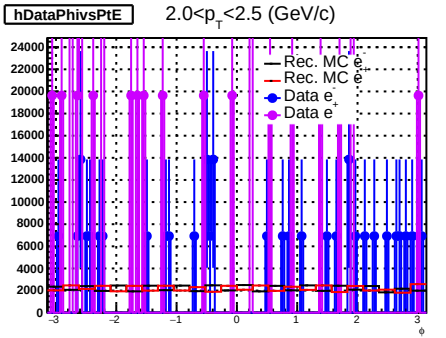

hDataPhivsPtE
1.3<p_T<1.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
1.4<p_T<1.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

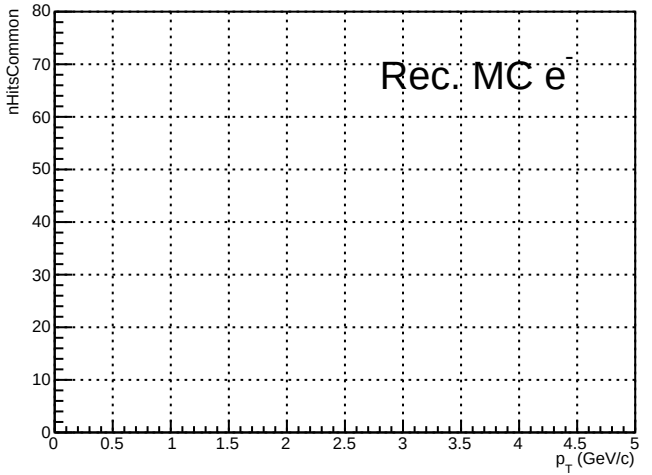

hDataPhivsPtE
1.5<p_T<1.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
1.6<p_T<1.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
1.8<p_T<2.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ


hDataPhivsPtE
2.0<p_T<2.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
φ

hRcNHitsCommonvsPtE



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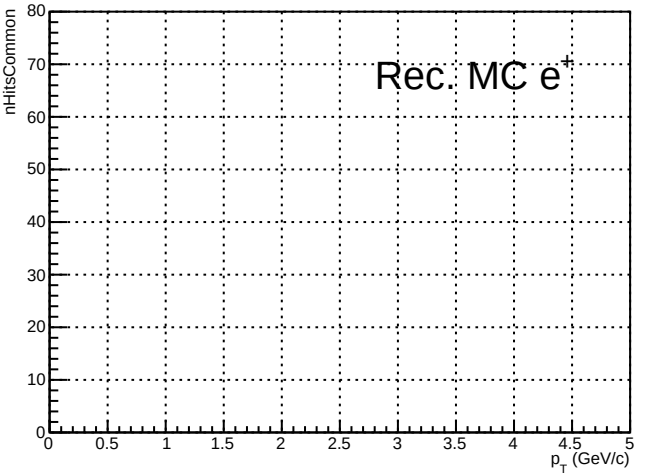

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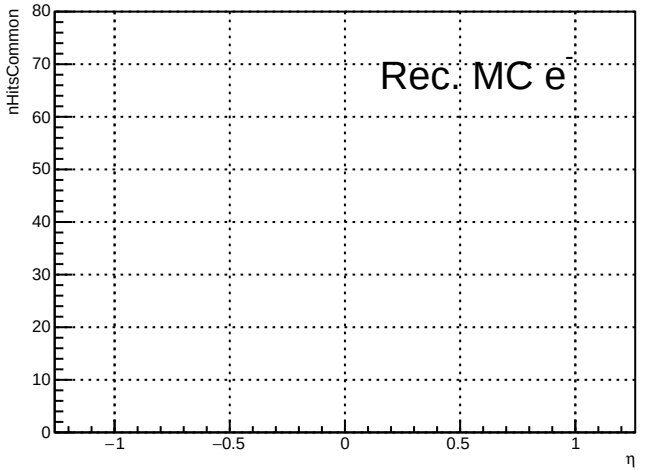

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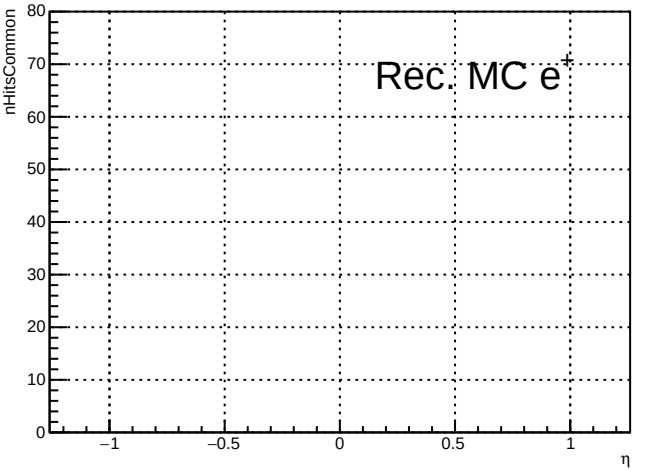
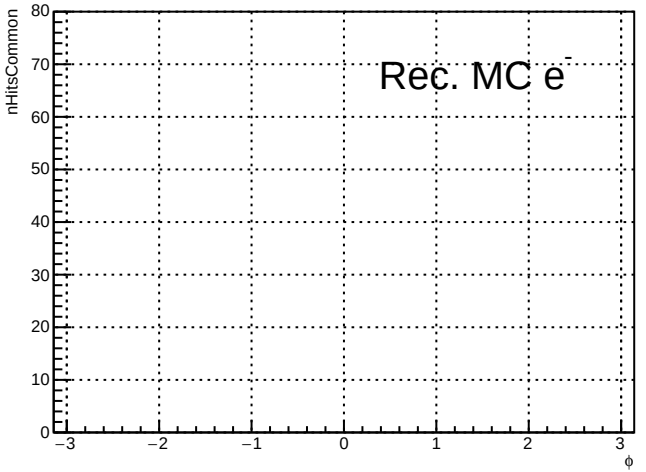
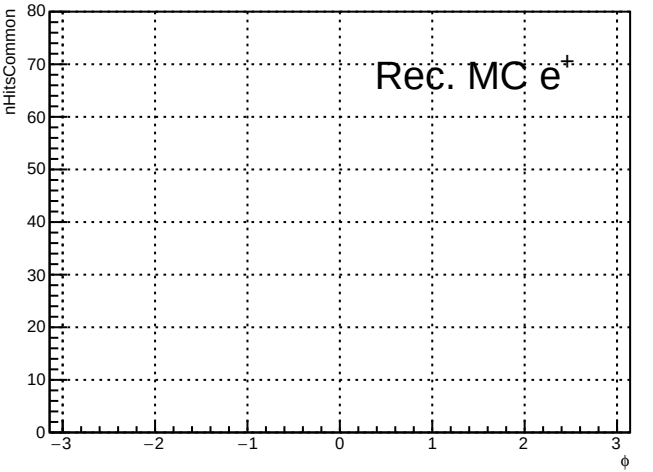
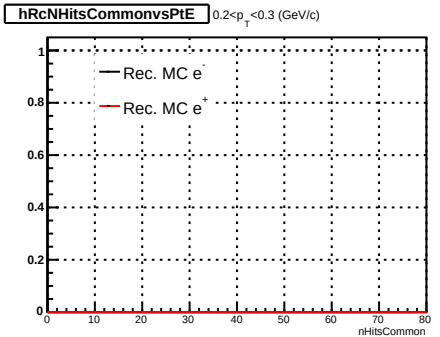


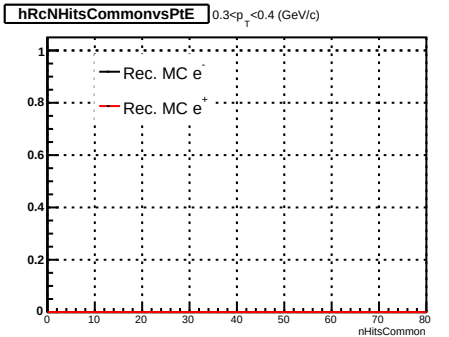
hRcNHitsCommonvsPhiE



hRcNHitsCommonvsPhiP




hRcNHitsCommonvsPtE
0.2<p_T<0.3 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon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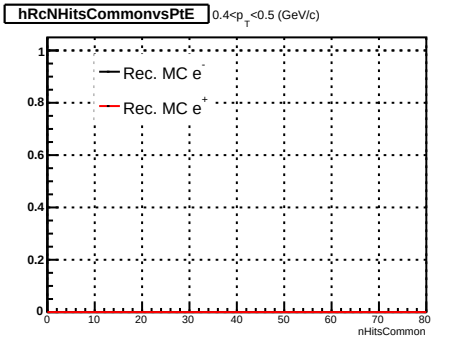
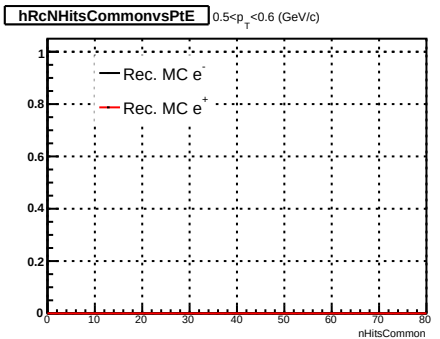
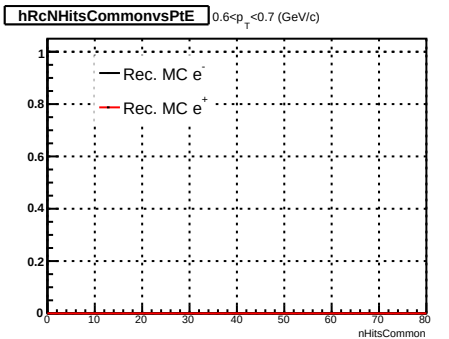
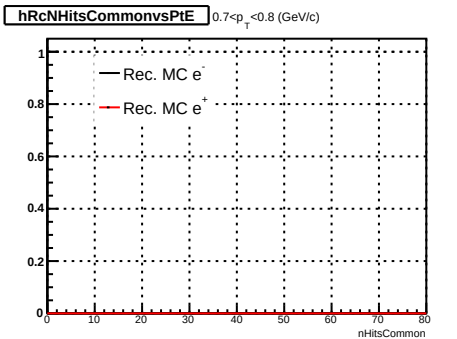
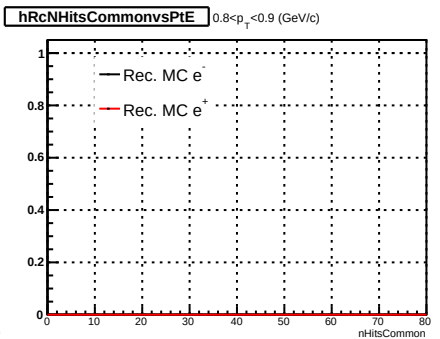
0.3<p_T<0.4 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

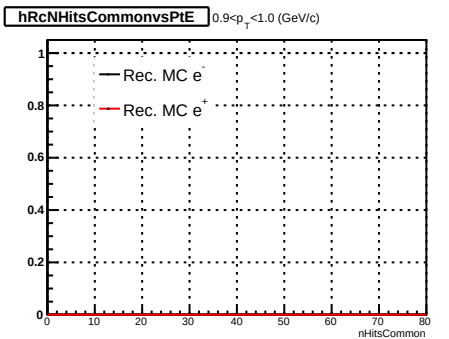

hRcNHitsCommonvsPtE
0.4<p_T<0.5 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

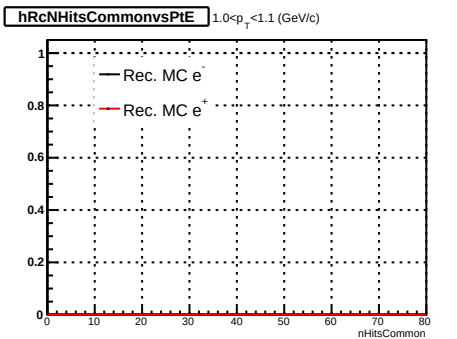

hRcNHitsCommonvsPtE
0.5<p_T<0.6 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

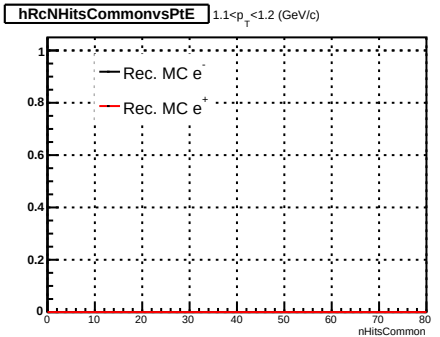

hRcNHitsCommonvsPtE
0.6<p_T<0.7 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

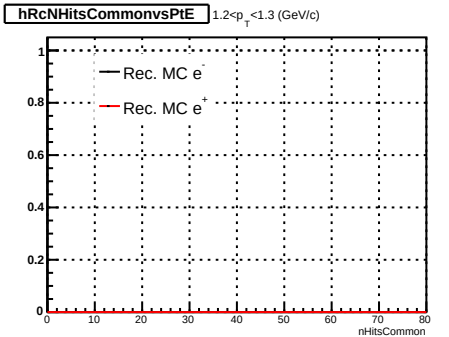

hRcNHitsCommonvsPtE
0.7<p_T<0.8 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

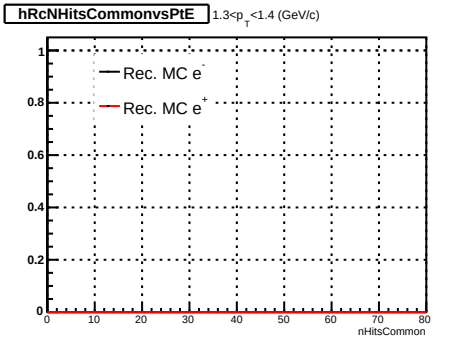

hRcNHitsCommonvsPtE
0.8<p_T<0.9 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

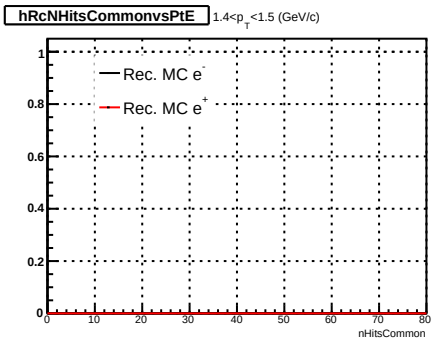

hRcNHitsCommonvsPtE
0.9<p_T<1.0 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

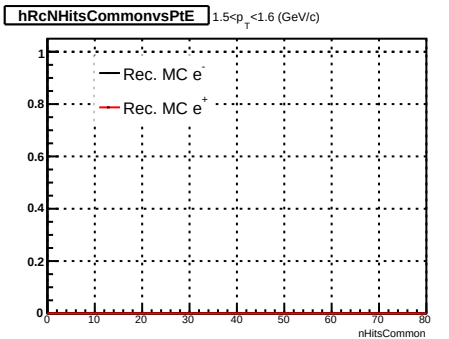

hRcNHitsCommonvsPtE
1.0<p_T<1.1 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

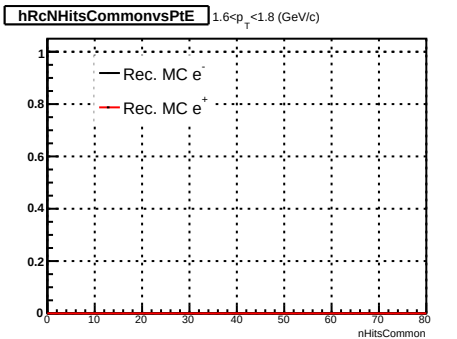

hRcNHitsCommonvsPtE
1.1<p_T<1.2 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon

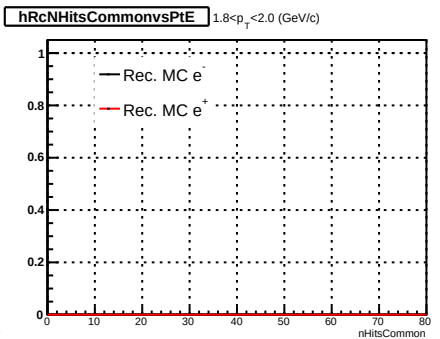

hRcNHitsCommonvsPtE
1.2<p_T<1.3 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPtE
1.3<p_T<1.4 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPtE
1.4<p_T<1.5 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPtE
1.5<p_T<1.6 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPtE
1.6<p_T<1.8 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon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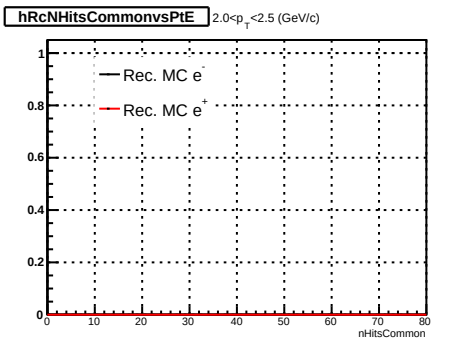
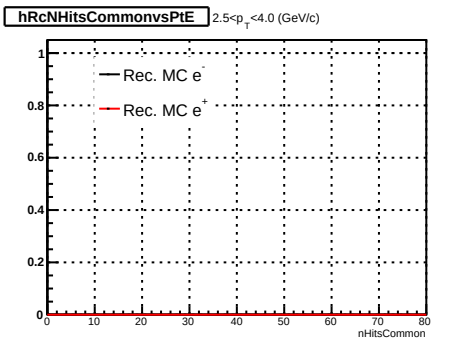
1.8<p_T<2.0 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPtE
2.0<p_T<2.5 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon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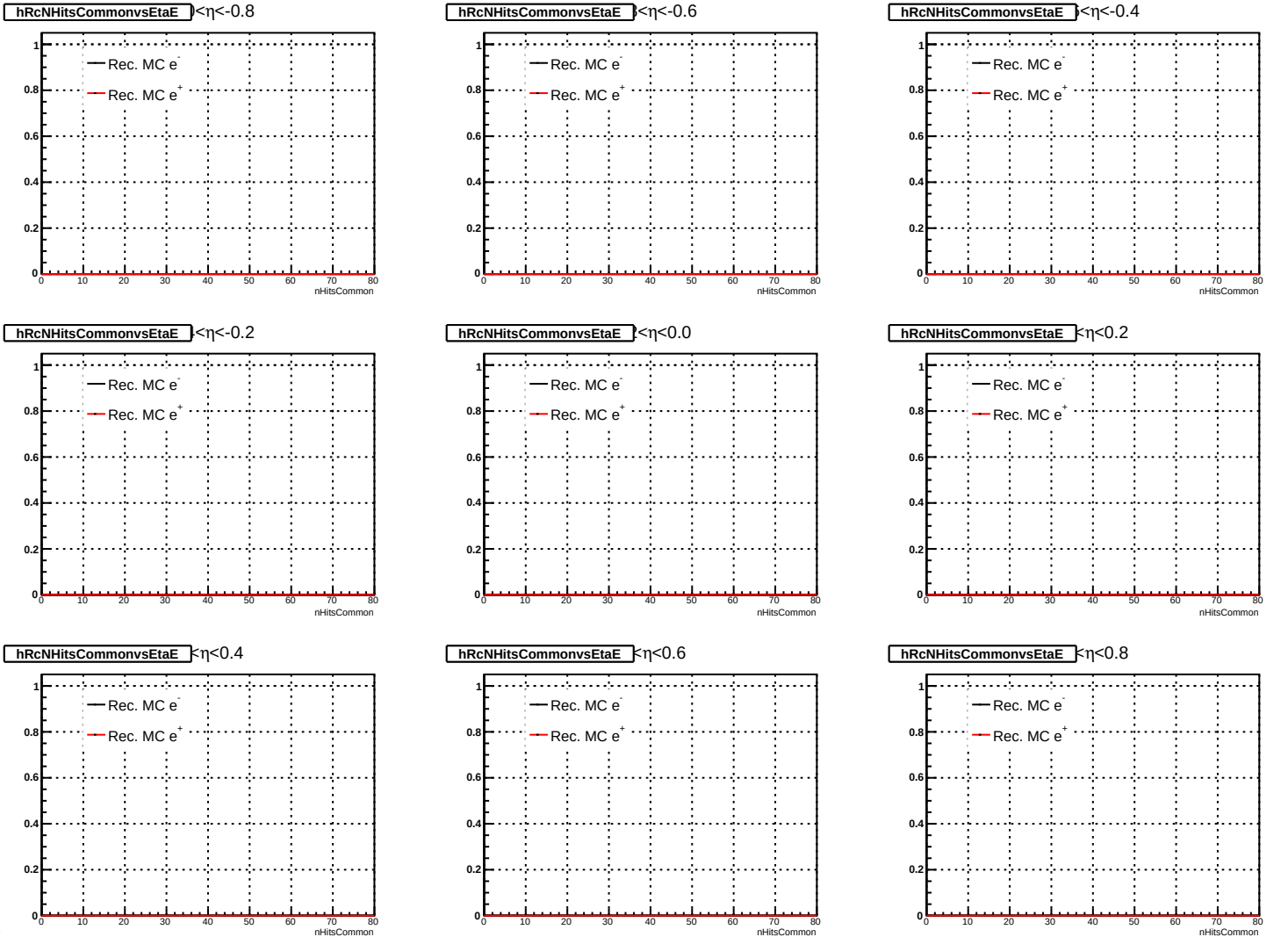
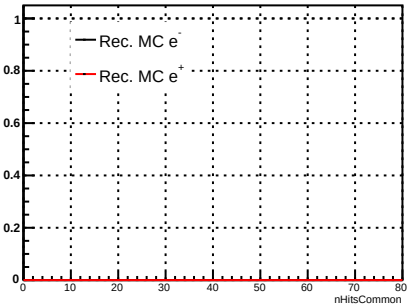
2.5<p_T<4.0 (GeV/c)
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsEtaE
<η<-0.8
hRcNHitsCommonvsEtaE
<η<-0.6
hRcNHitsCommonvsEtaE
<η<-0.4
hRcNHitsCommonvsEtaE
<η<-0.2
hRcNHitsCommonvsEtaE
<η<0.0
hRcNHitsCommonvsEtaE
<η<0.2
hRcNHitsCommonvsEtaE
<η<0.4
hRcNHitsCommonvsEtaE
<η<0.6
hRcNHitsCommonvsEtaE
<η<0.8
Rec. MC e-
Rec. MC e+
nHitsCommon

hRcNHitsCommonvsEtaE <η<1.0



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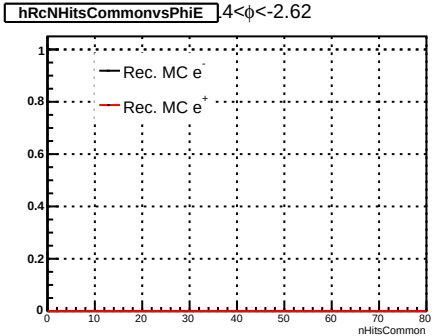
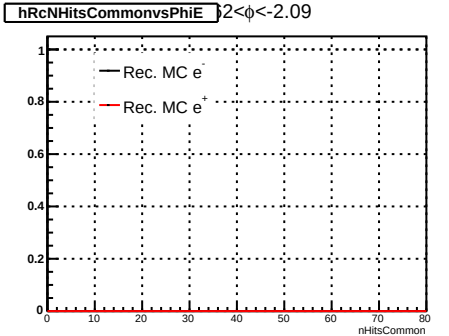
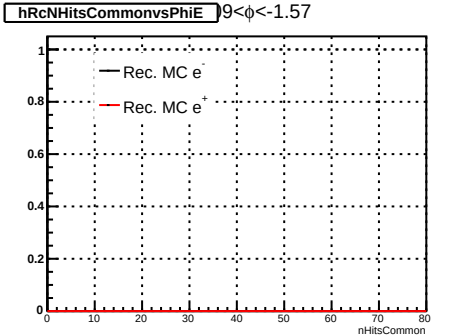
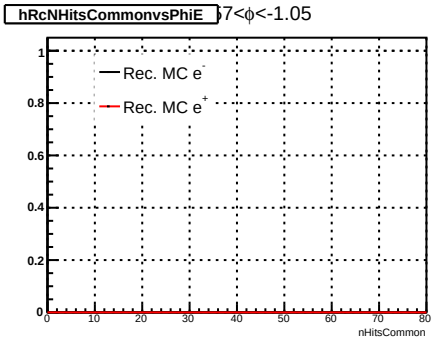
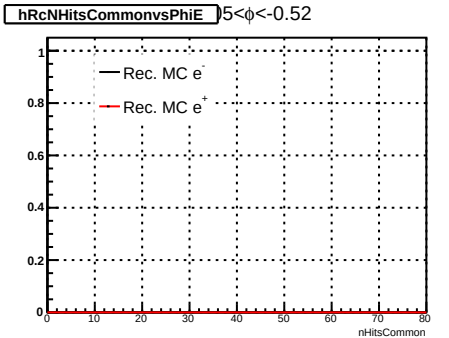
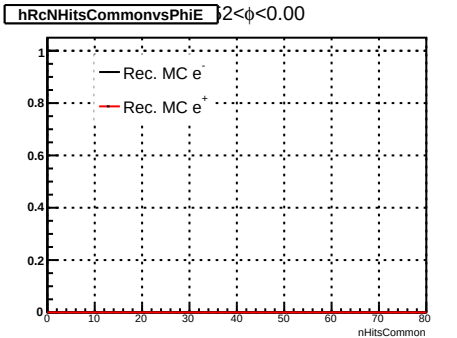

hRcNHitsCommonvsPhiE
4<ϕ<-2.62
Rec. MC e-
Rec. MC e+
nHitsCommon

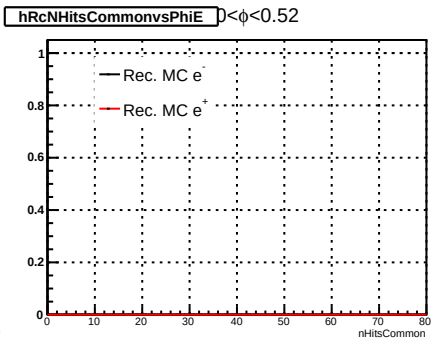

hRcNHitsCommonvsPhiE
2<ϕ<-2.09
Rec. MC e-
Rec. MC e+
nHitsCommon

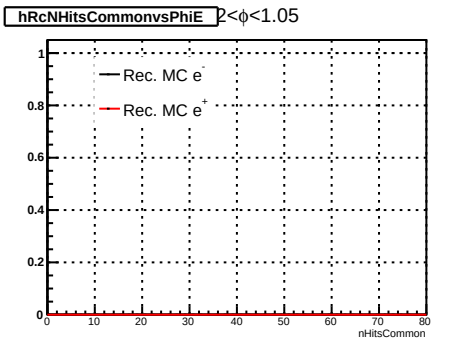

hRcNHitsCommonvsPhiE
9<ϕ<-1.57
Rec. MC e-
Rec. MC e+
nHitsCommon

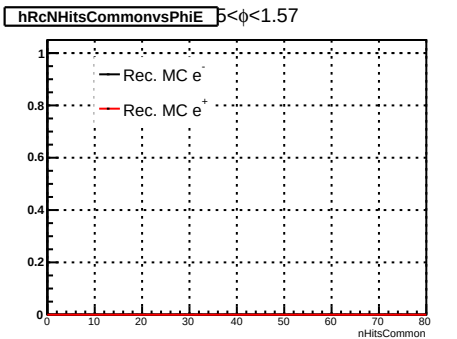

hRcNHitsCommonvsPhiE
7<ϕ<-1.05
Rec. MC e-
Rec. MC e+
nHitsCommon

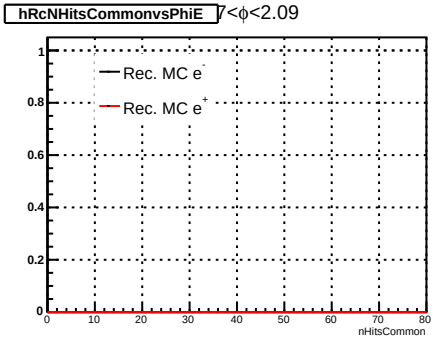

hRcNHitsCommonvsPhiE
5<ϕ<-0.52
Rec. MC e-
Rec. MC e+
nHitsCommon

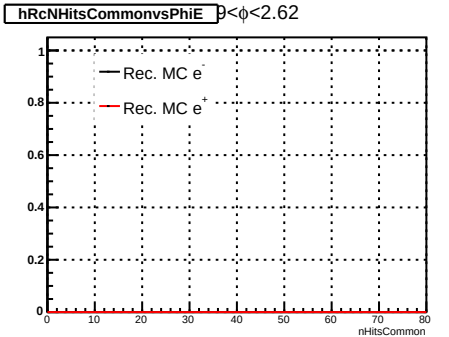

hRcNHitsCommonvsPhiE
2<ϕ<0.00
Rec. MC e-
Rec. MC e+
nHitsCommon

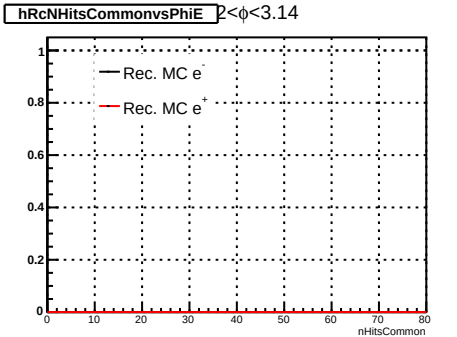

hRcNHitsCommonvsPhiE
0<ϕ<0.52
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPhiE
2<ϕ<1.05
Rec. MC e-
Rec. MC e+
nHitsCommon


hRcNHitsCommonvsPhiE
5<ϕ<1.57
Rec. MC e-
Rec. MC e+
nHitsCommon







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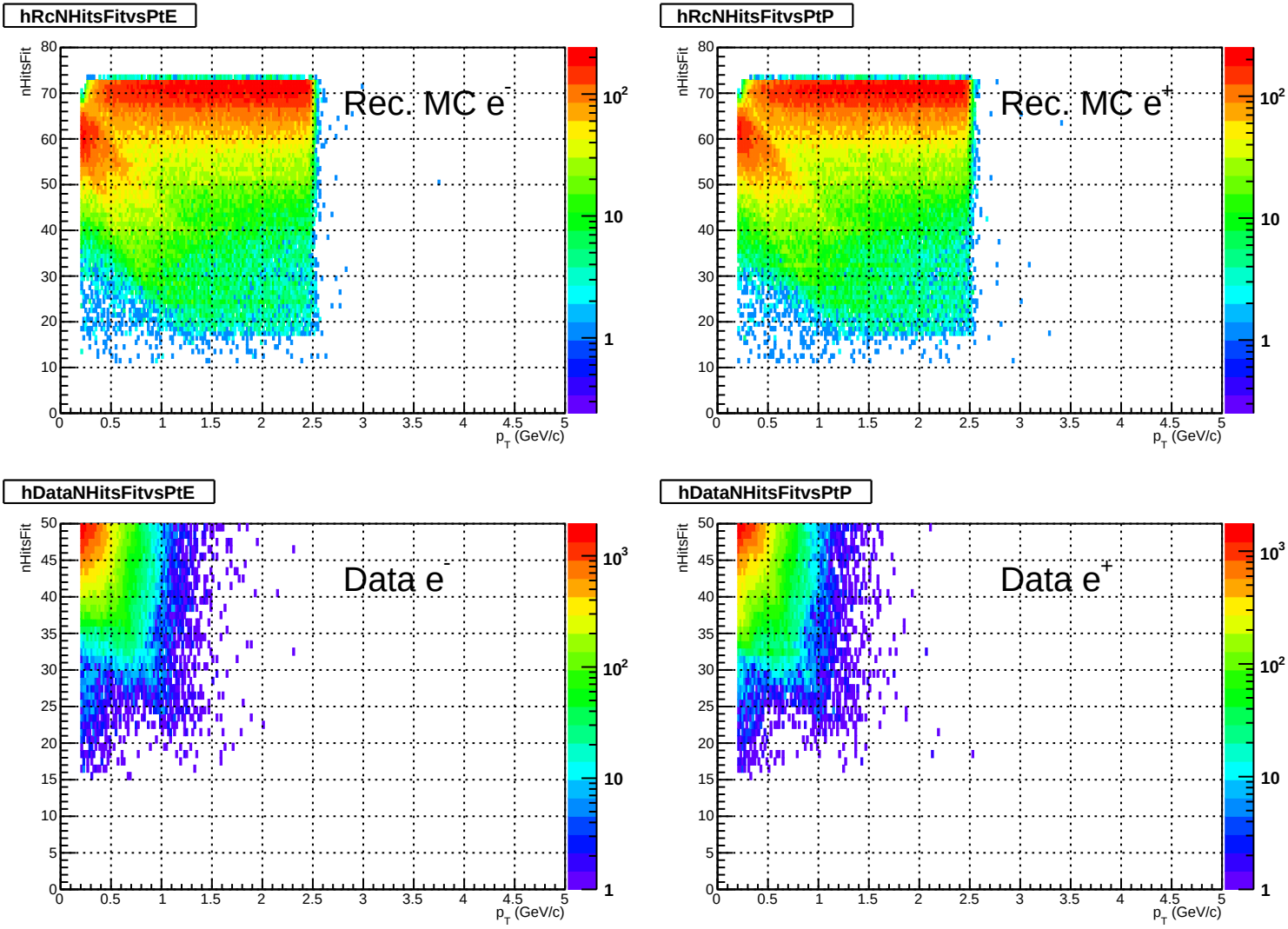
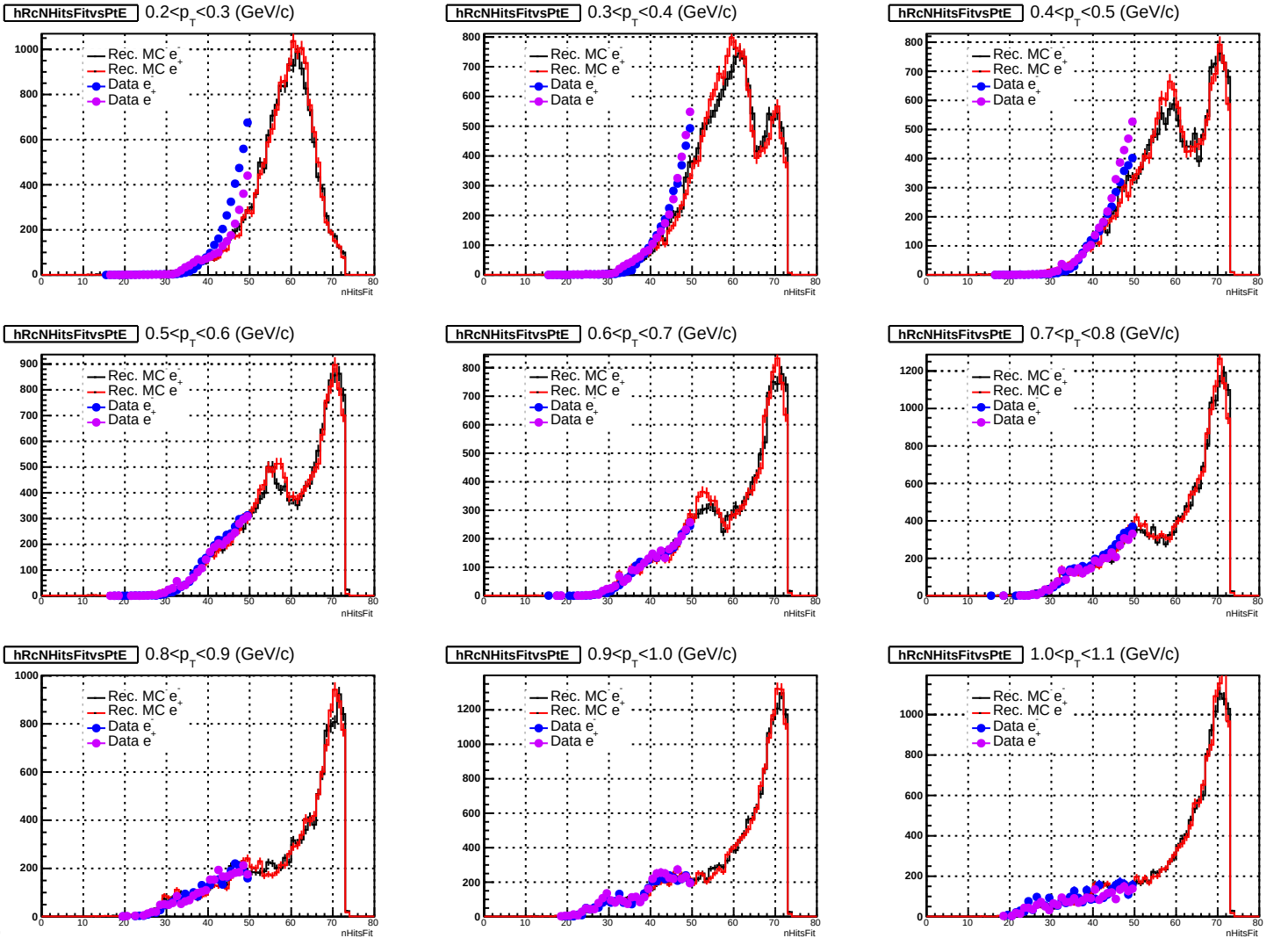
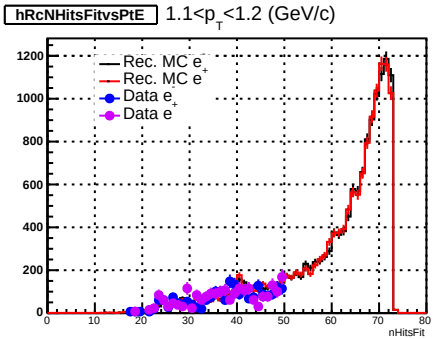
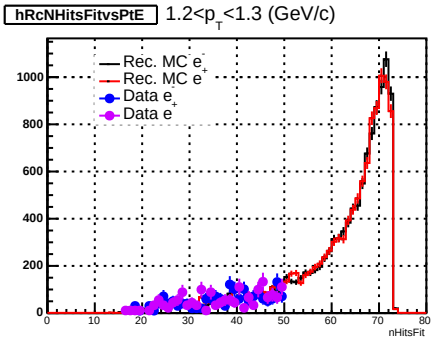
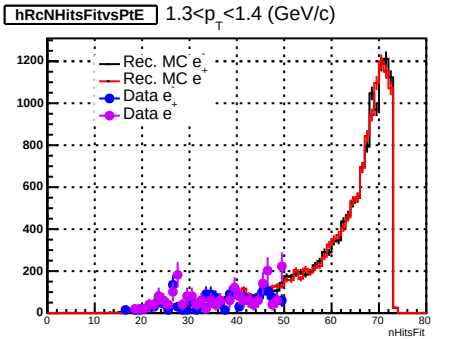

hRcNHitsFitvsPtE
Rec. MC e-
hRcNHitsFitvsPtP
Rec. MC e+
hDataNHitsFitvsPtE
Data e-
hDataNHitsFitvsPtP
Data e+
nHitsFit
pT (GeV/c)


hRcNHitsFitvsPtE
0.2<p_T<0.3 (GeV/c)
0.3<p_T<0.4 (GeV/c)
0.4<p_T<0.5 (GeV/c)
0.5<p_T<0.6 (GeV/c)
0.6<p_T<0.7 (GeV/c)
0.7<p_T<0.8 (GeV/c)
0.8<p_T<0.9 (GeV/c)
0.9<p_T<1.0 (GeV/c)
1.0<p_T<1.1 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsPtE
1.1<p_T<1.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsPtE
1.2<p_T<1.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit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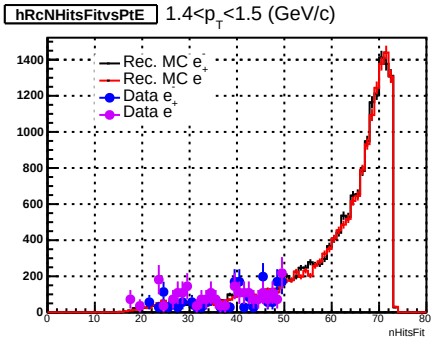
1.3<p_T<1.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit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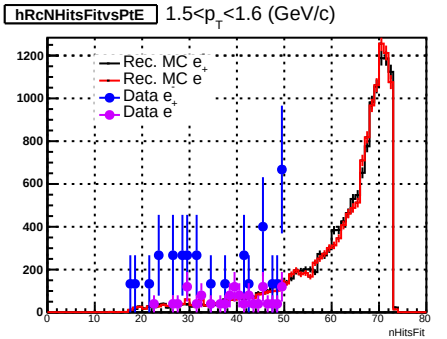
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit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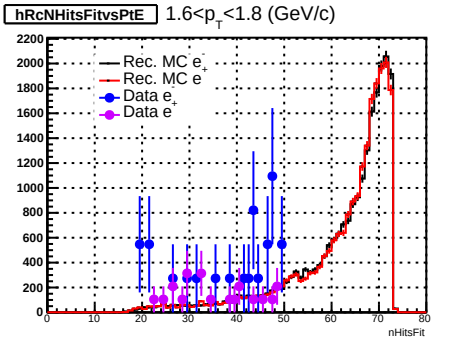
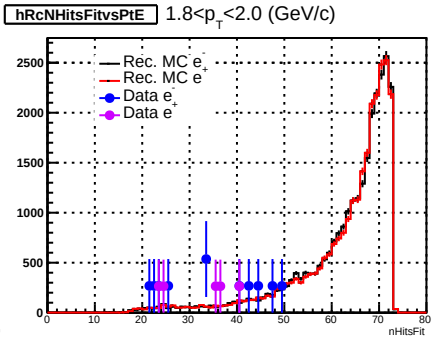
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsPtE
1.6<p_T<1.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit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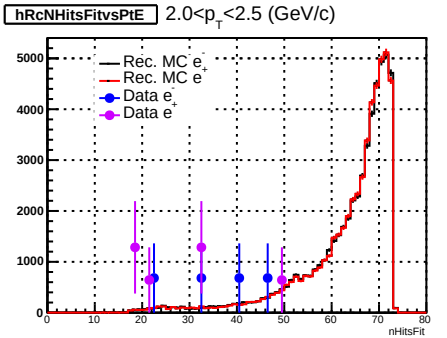
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit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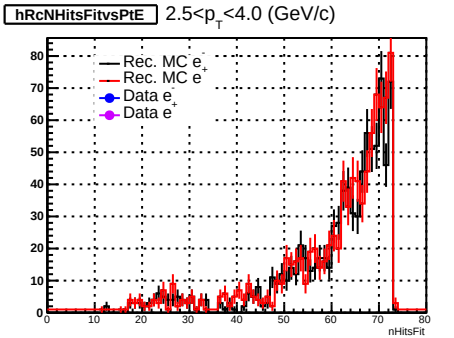
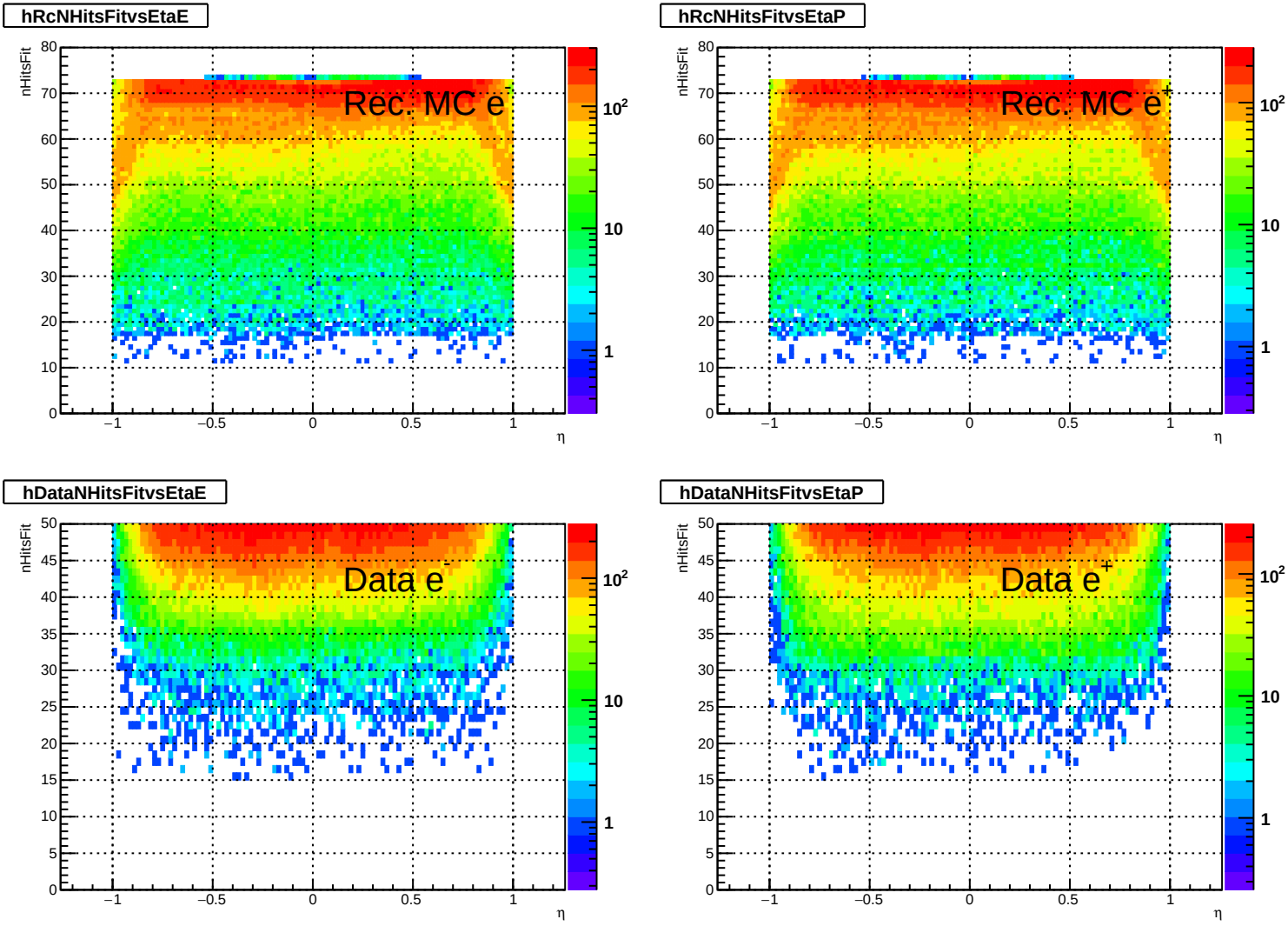
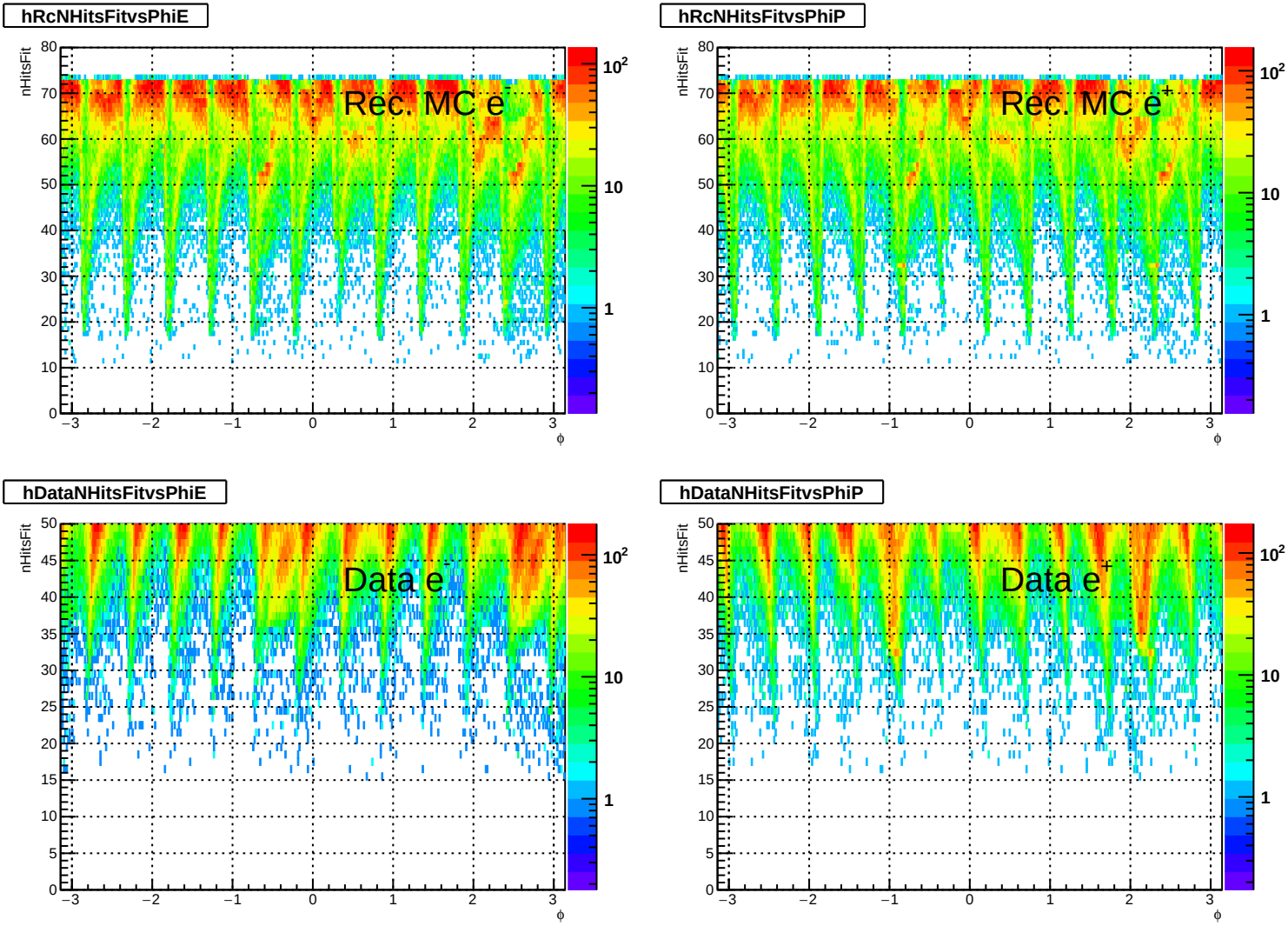
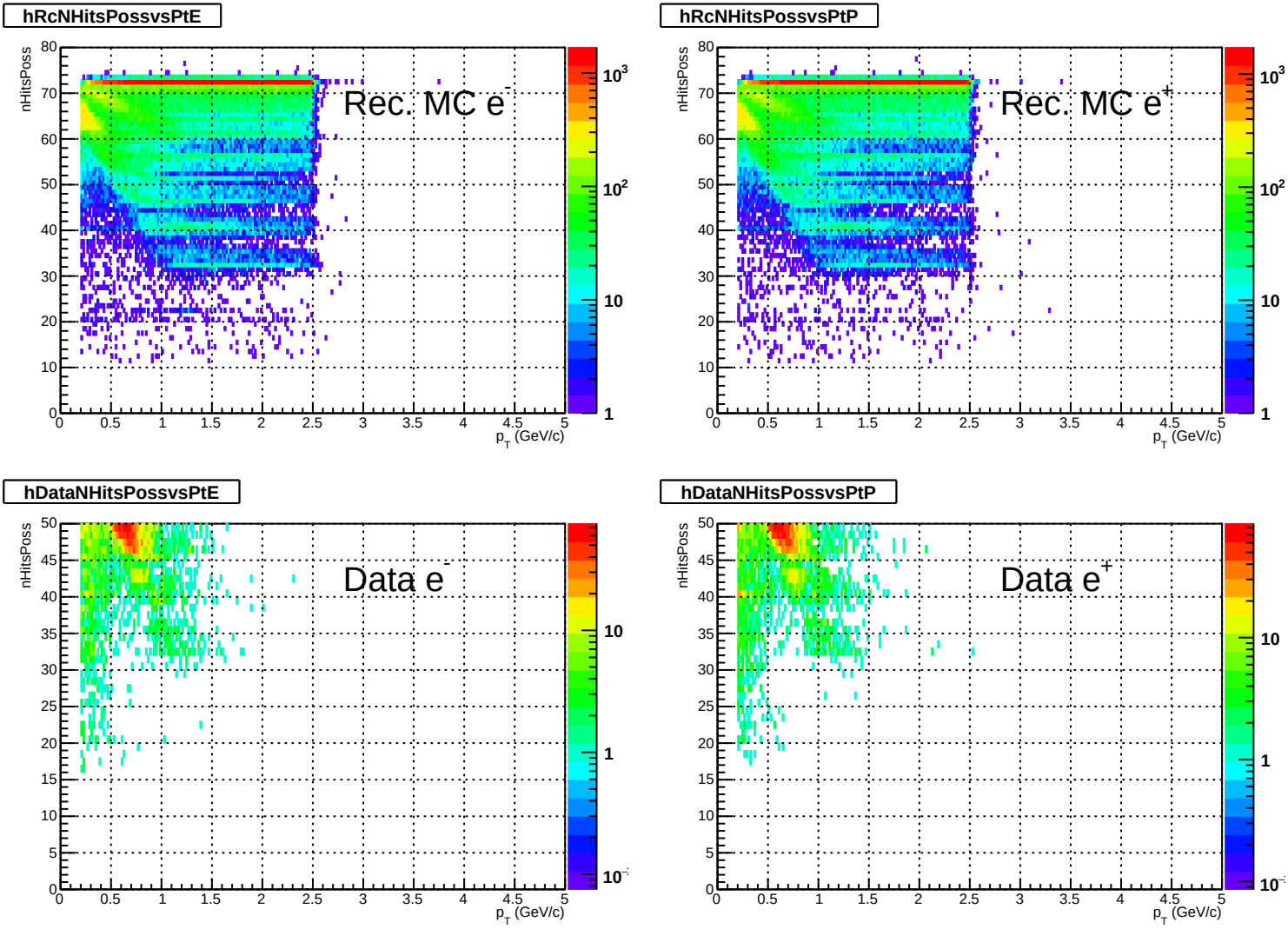
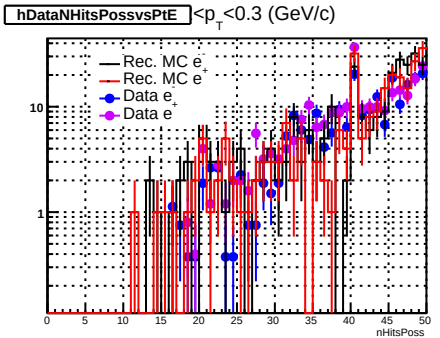
2.0<p_T<2.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit

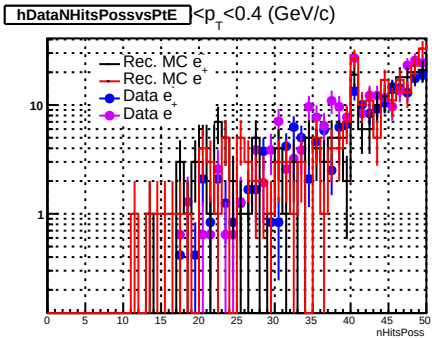

hRcNHitsFitvsPtE
2.5<p_T<4.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsFit


hRcNHitsFitvsEtaE
Rec. MC e-
hRcNHitsFitvsEtaP
Rec. MC e+
hDataNHitsFitvsEtaE
Data e-
hDataNHitsFitvsEtaP
Data e+
nHitsFit
η


hRcNHitsFitvsPhiE
Rec. MC e⁻
hRcNHitsFitvsPhiP
Rec. MC e⁺
hDataNHitsFitvsPhiE
Data e⁻
hDataNHitsFitvsPhiP
Data e⁺
nHitsFit
ϕ


hRcNHitsPossvsPtE
Rec. MC e-
nHitsPoss
pT (GeV/c)
hRcNHitsPossvsPtP
Rec. MC e+
nHitsPoss
pT (GeV/c)
hDataNHitsPossvsPtE
Data e-
nHitsPoss
pT (GeV/c)
hDataNHitsPossvsPtP
Data e+
nHitsPoss
pT (GeV/c)


hDataNHitsPossvsPtE
<p_T<0.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss


hDataNHitsPossvsPtE
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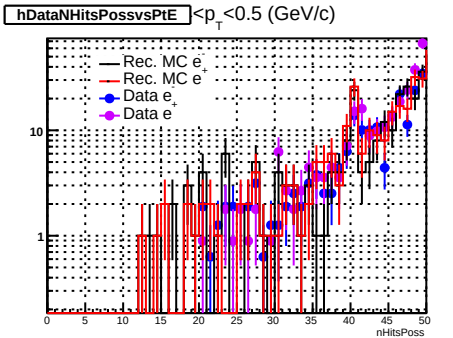
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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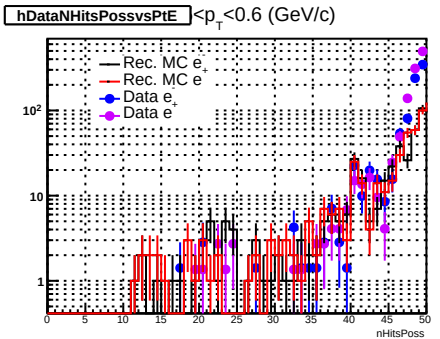
<p_T<0.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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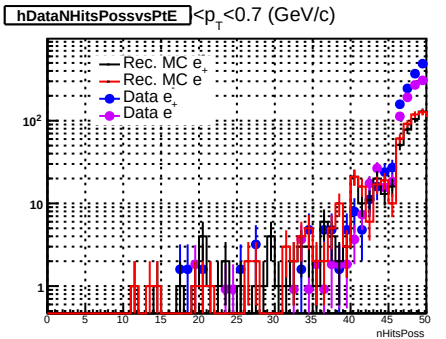
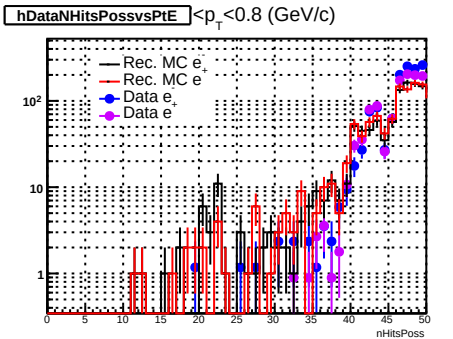
<p_T<0.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss


hDataNHitsPossvsPtE
<p_T<0.7 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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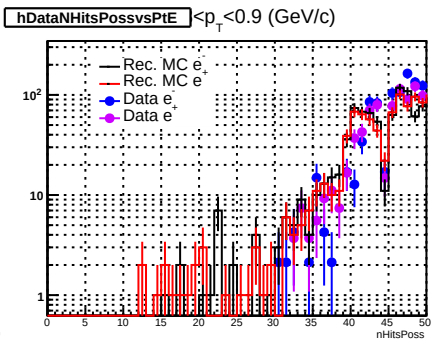
<p_T<0.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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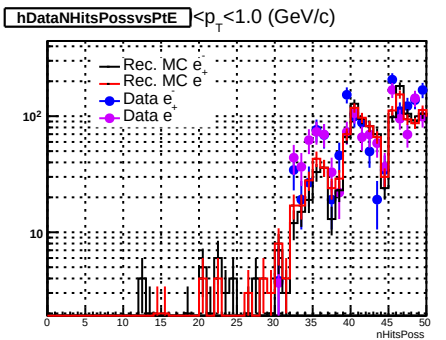
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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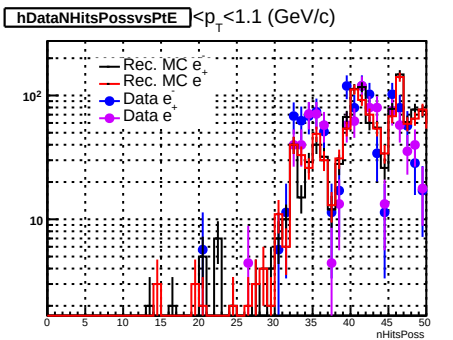
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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Rec. MC e-
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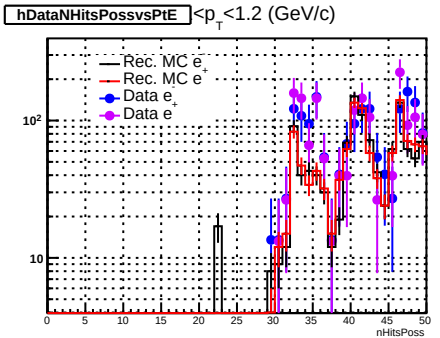
Data e-
Data e+
nHitsPoss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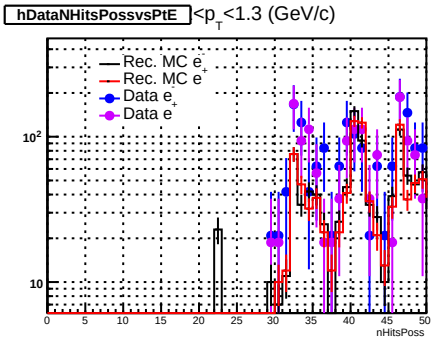
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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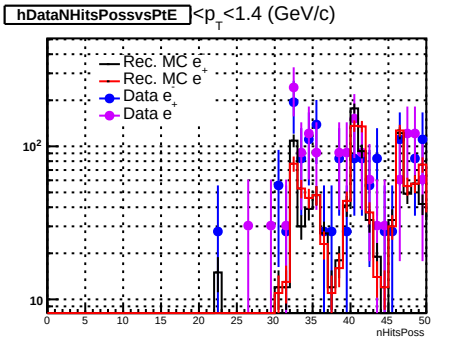
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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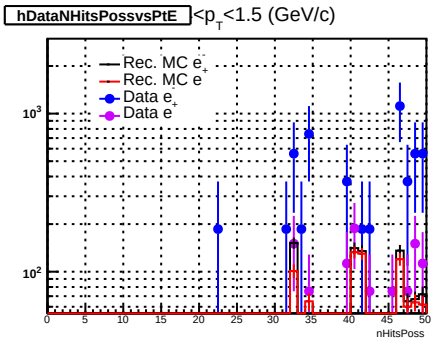
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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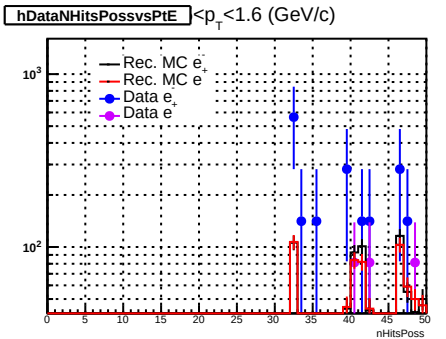
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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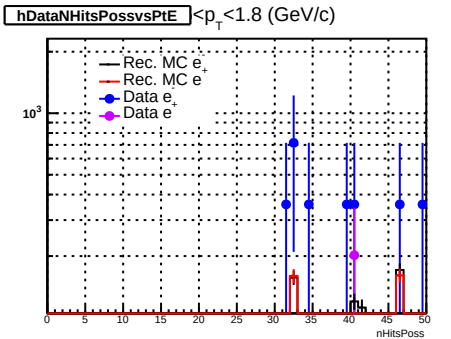
Rec. MC e+
Data e-
Data e+
nHitsPoss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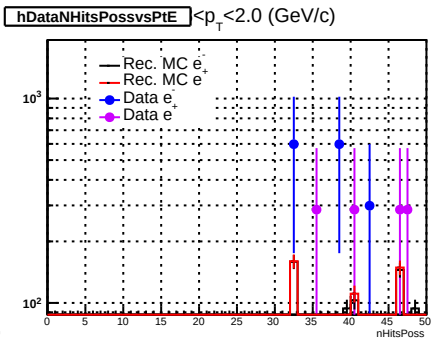
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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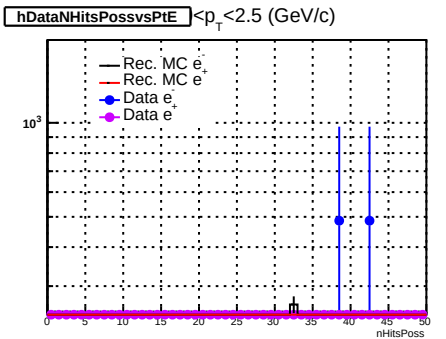
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss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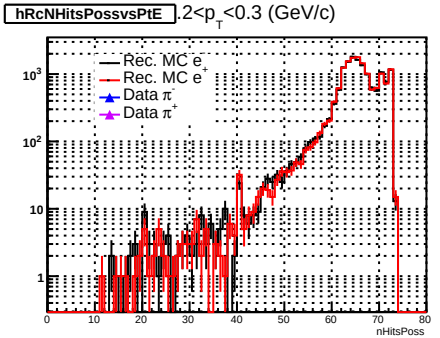
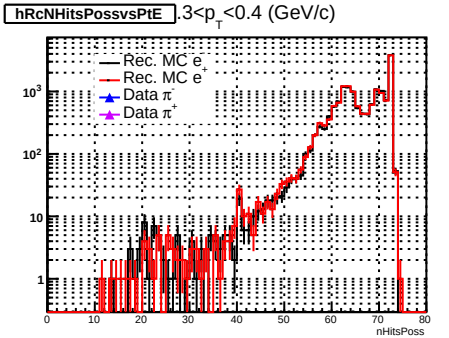
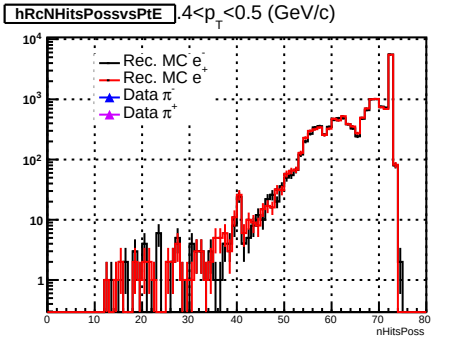
<p_T<2.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss


hRcNHitsPossvsPtE .2<p_T<0.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .3<p_T<0.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss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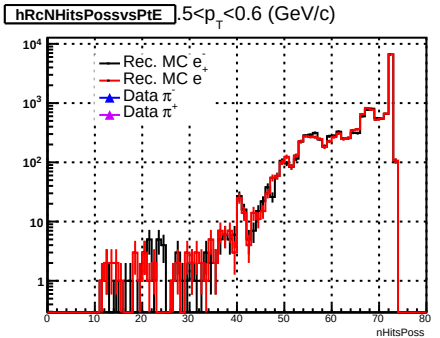
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss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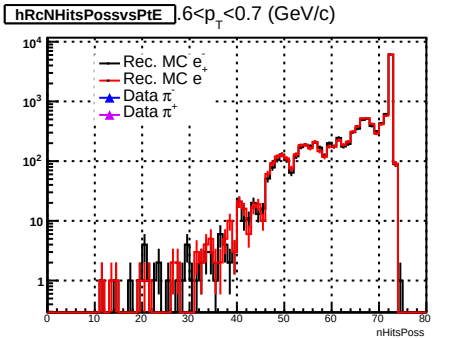
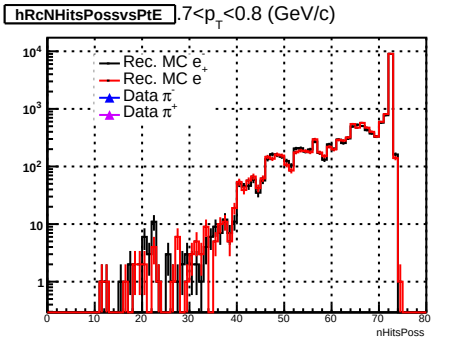
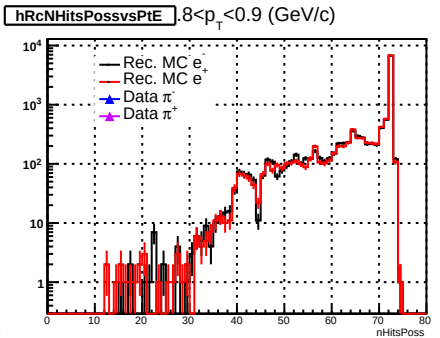
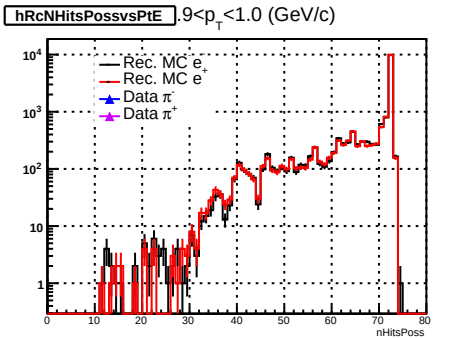
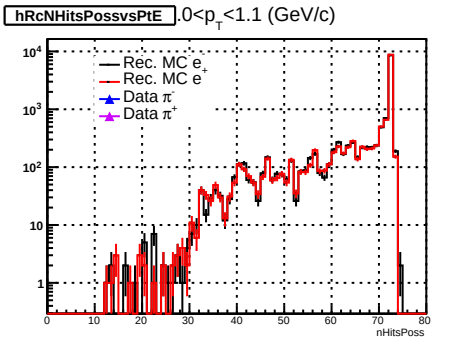
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .6<p_T<0.7 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .7<p_T<0.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .8<p_T<0.9 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .9<p_T<1.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss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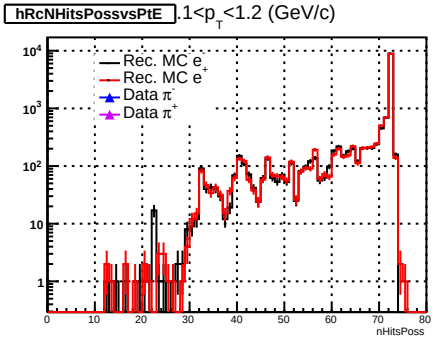
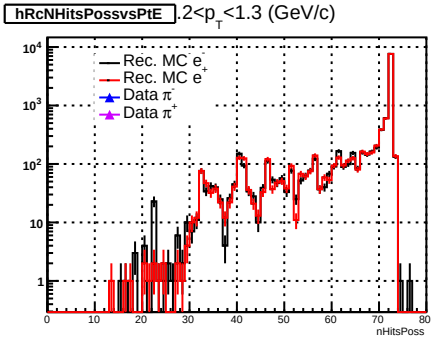
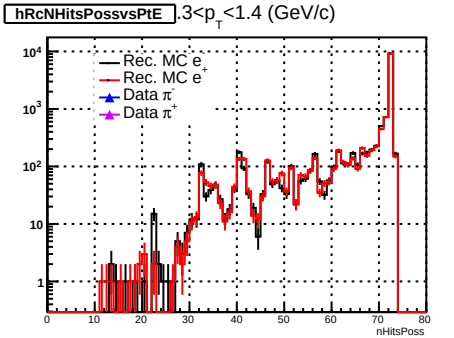
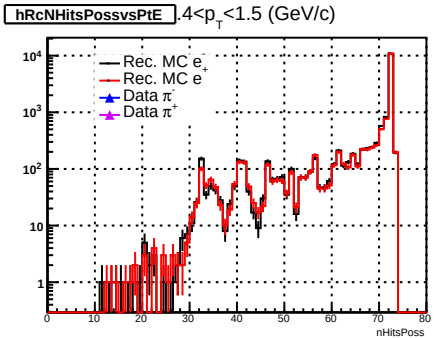
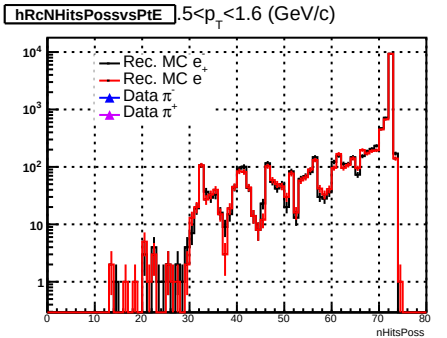
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

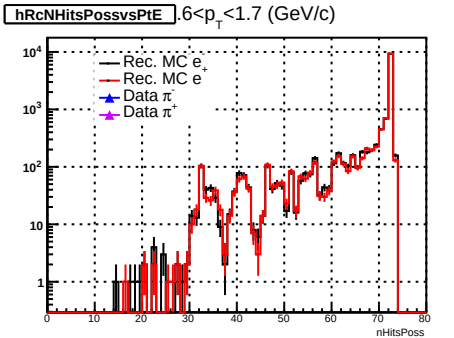

hRcNHitsPossvsPtE .1<p_T<1.2 (GeV/c)
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .2<p_T<1.3 (GeV/c)
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .3<p_T<1.4 (GeV/c)
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .4<p_T<1.5 (GeV/c)
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss


hRcNHitsPossvsPtE .5<p_T<1.6 (GeV/c)
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss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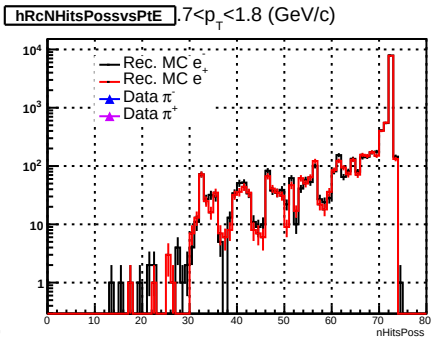
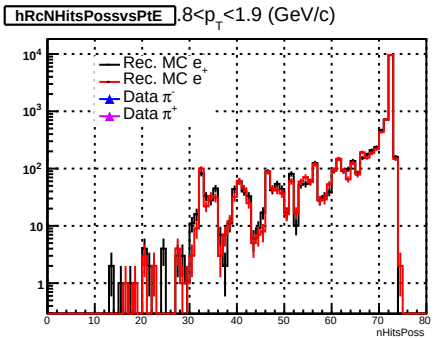
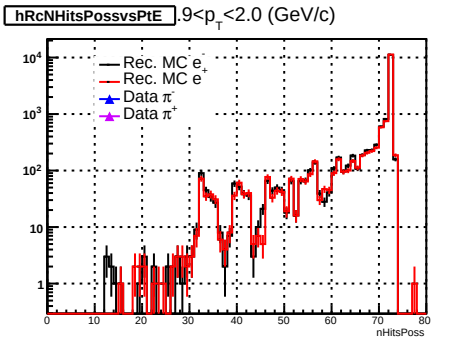
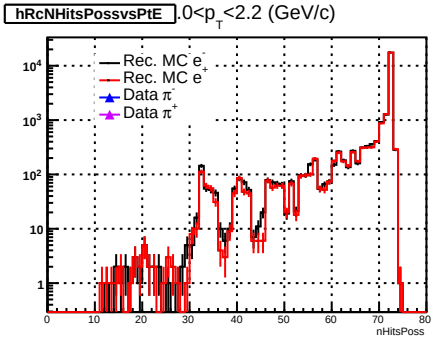
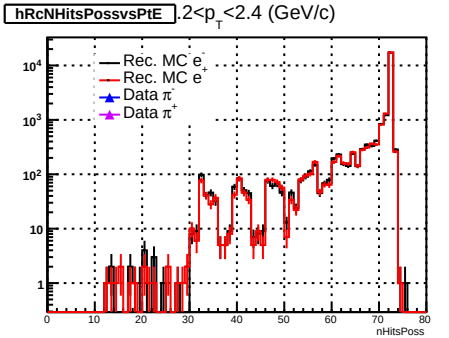
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

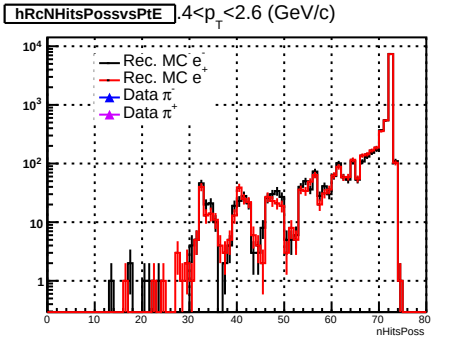

hRcNHitsPossvsPtE .7<p_T<1.8 (GeV/c)
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

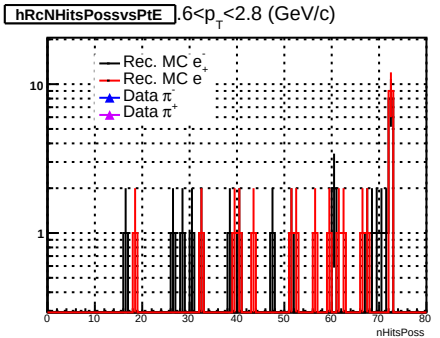

hRcNHitsPossvsPtE .8<p_T<1.9 (GeV/c)
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

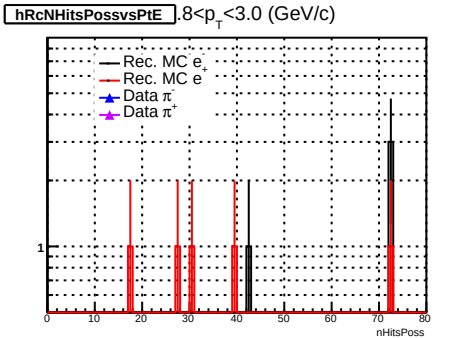

hRcNHitsPossvsPtE .9<p_T<2.0 (GeV/c)
Rec. MC e+
Rec. MC e-
Data π-
Data π+
nHitsPoss

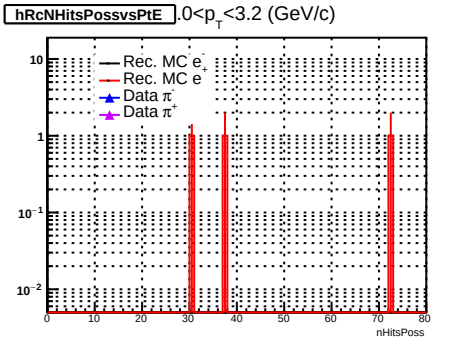

hRcNHitsPossvsPtE .0<p_T<2.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

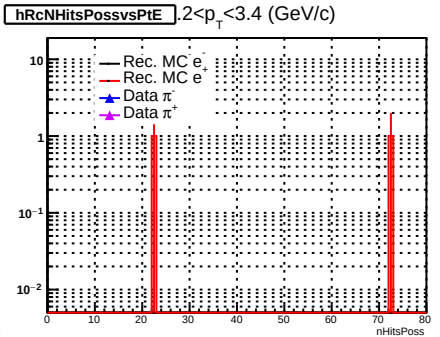

hRcNHitsPossvsPtE .2<p_T<2.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

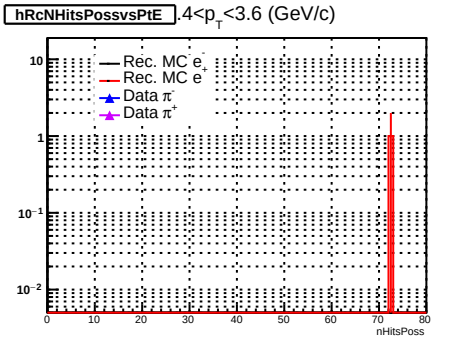

hRcNHitsPossvsPtE .4<p_T<2.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

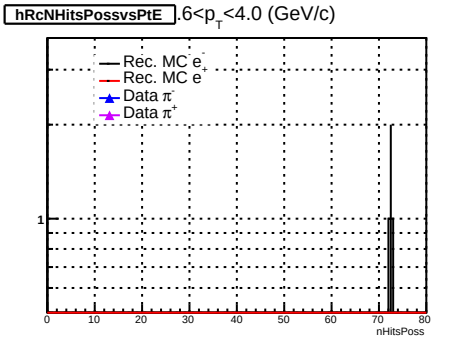

hRcNHitsPossvsPtE .6<p_T<2.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

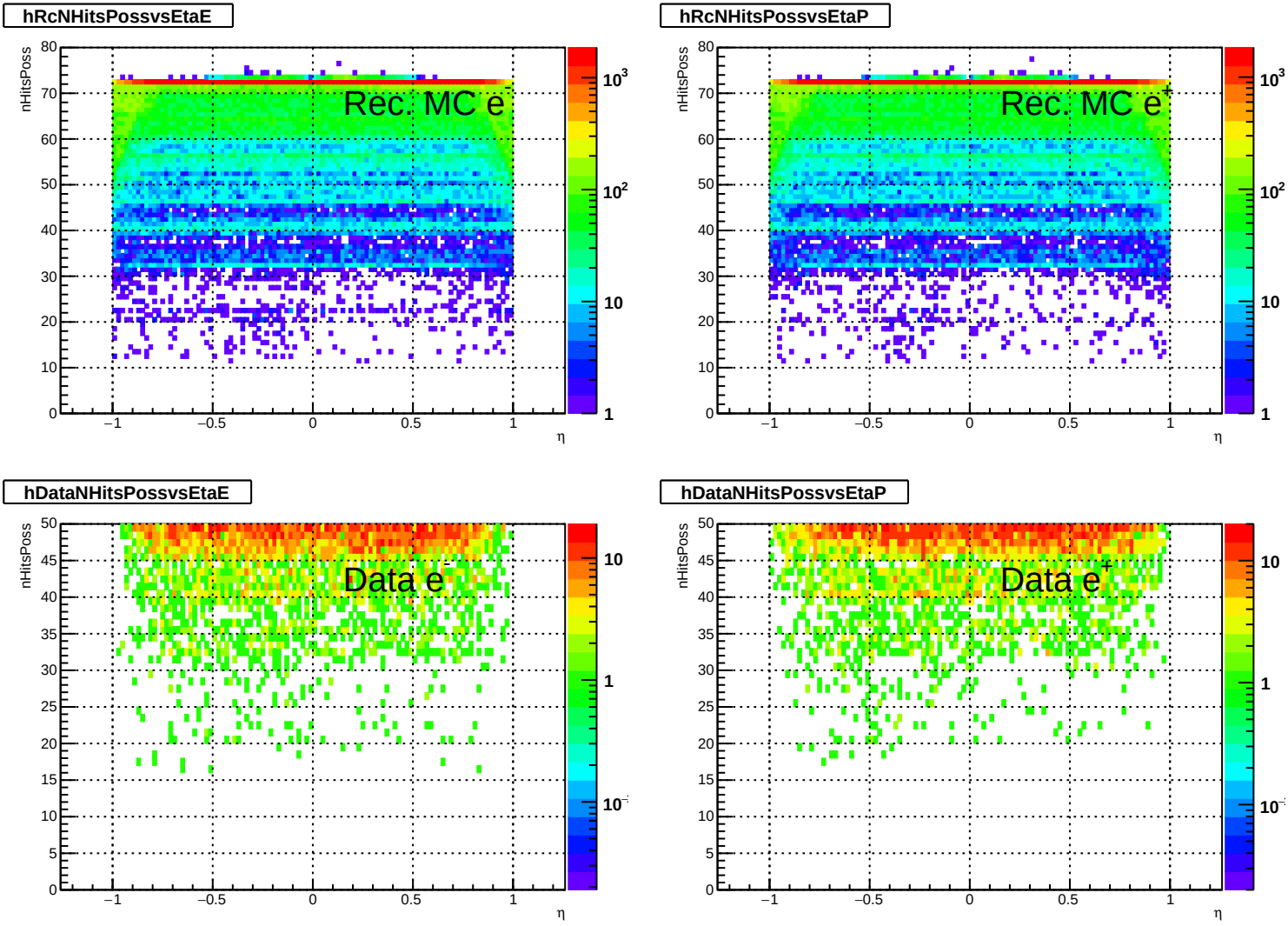

hRcNHitsPossvsPtE .8<p_T<3.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

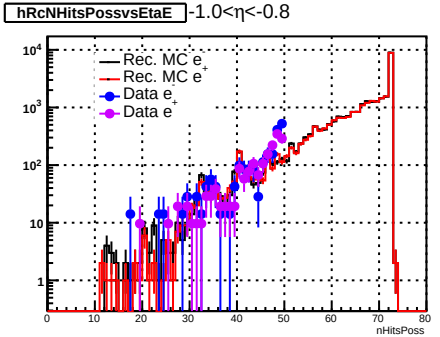

hRcNHitsPossvsPtE .0<p_T<3.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

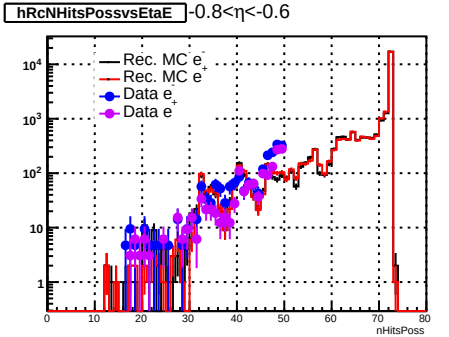

hRcNHitsPossvsPtE .2<p_T<3.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

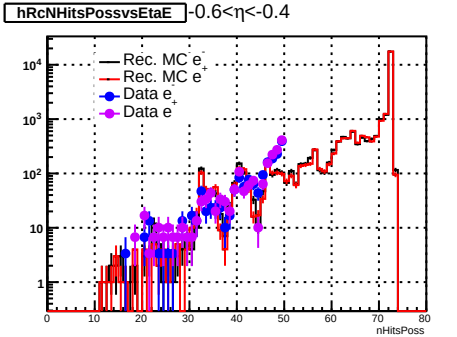

hRcNHitsPossvsPtE .4<p_T<3.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

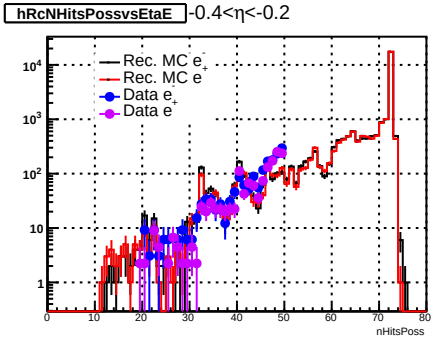

hRcNHitsPossvsPtE .6<p_T<4.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nHitsPoss

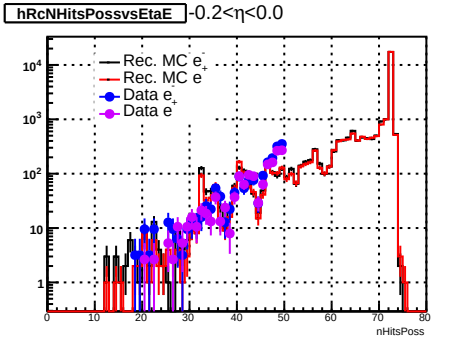

hRcNHitsPossvsEtaE
Rec. MC e
nHitsPoss
η
hRcNHitsPossvsEtaP
Rec. MC e+
nHitsPoss
η
hDataNHitsPossvsEtaE
Data e
nHitsPoss
η
hDataNHitsPossvsEtaP
Data e+
nHitsPoss
η

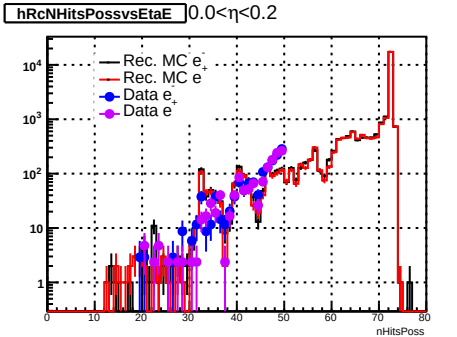

hRcNHitsPossvsEtaE -1.0<η<-0.8
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss

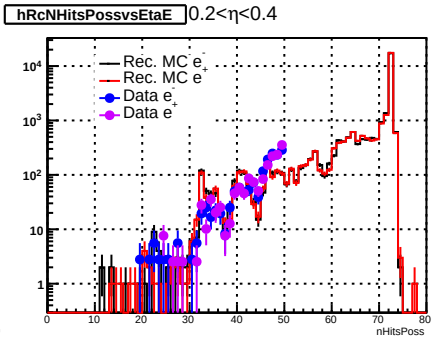

hRcNHitsPossvsEtaE -0.8<η<-0.6
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss

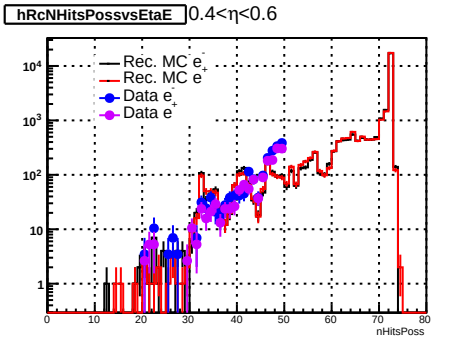

hRcNHitsPossvsEtaE -0.6<η<-0.4
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss

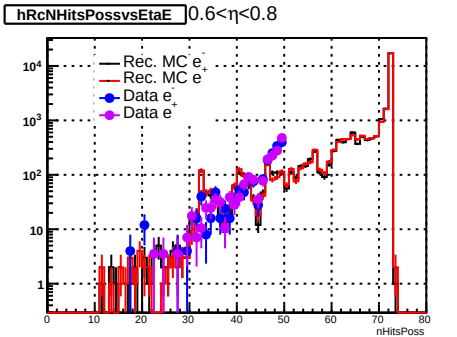

hRcNHitsPossvsEtaE -0.4<η<-0.2
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss


hRcNHitsPossvsEtaE -0.2<η<0.0
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss

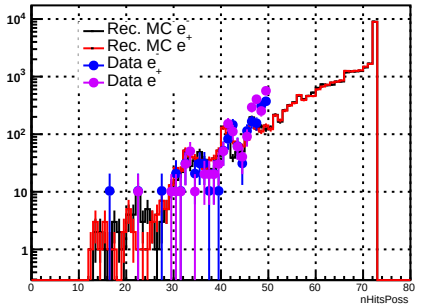

hRcNHitsPossvsEtaE 0.0<η<0.2
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss


hRcNHitsPossvsEtaE 0.2<η<0.4
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss


hRcNHitsPossvsEtaE 0.4<η<0.6
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss


hRcNHitsPossvsEtaE 0.6<η<0.8
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsPoss

hRcNHitsPossvsEtaE 0.8<η<1.0



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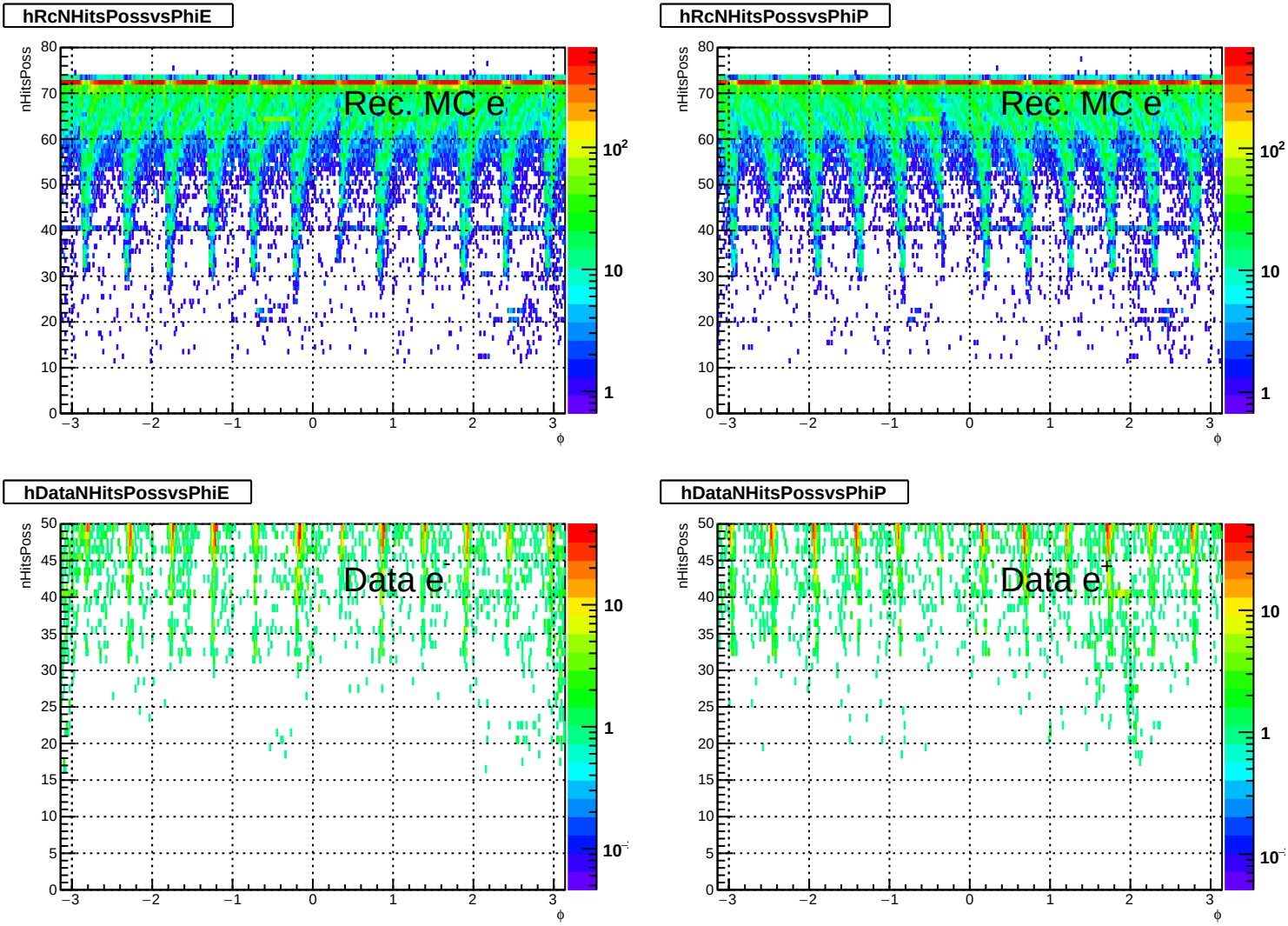
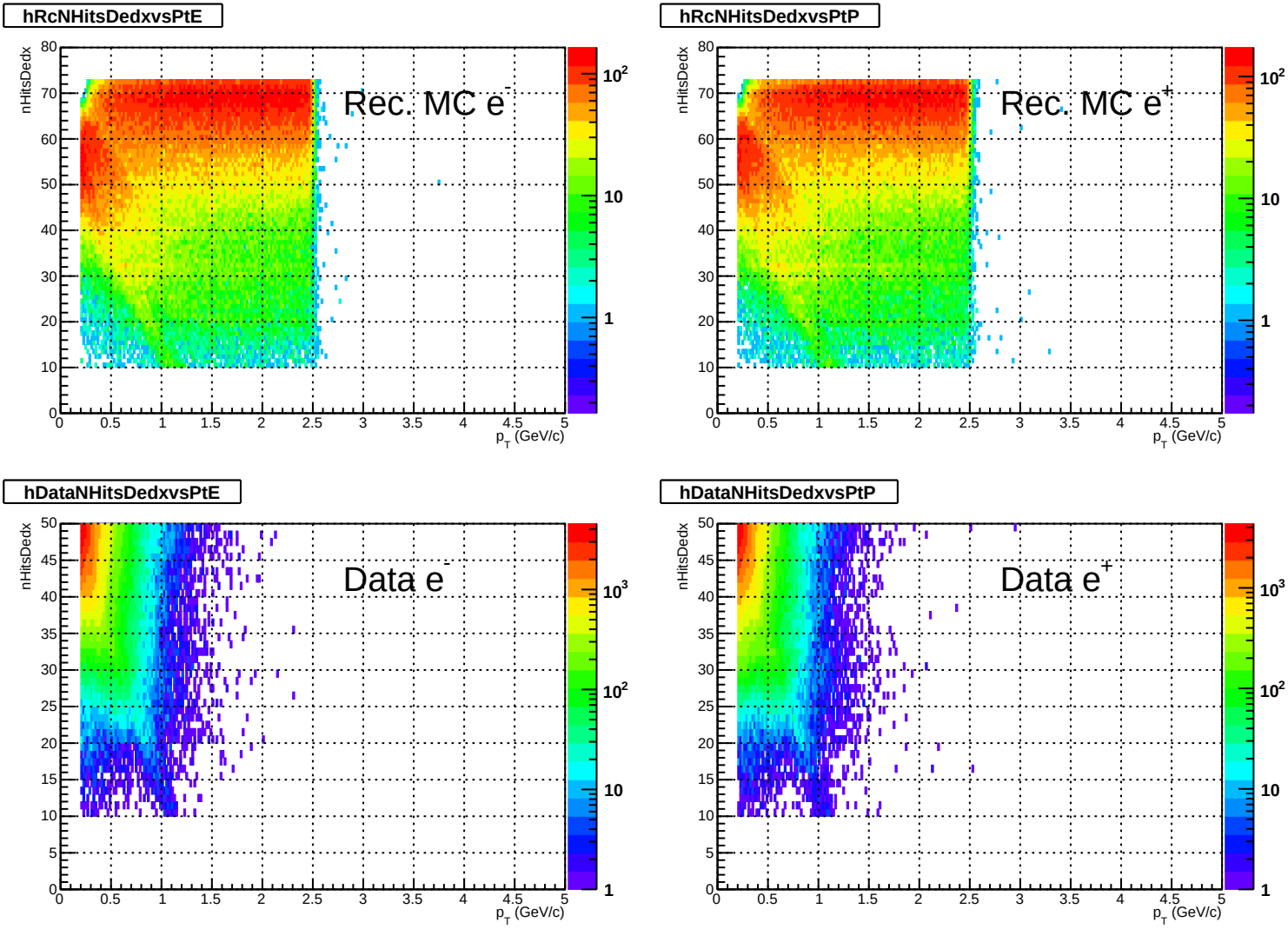
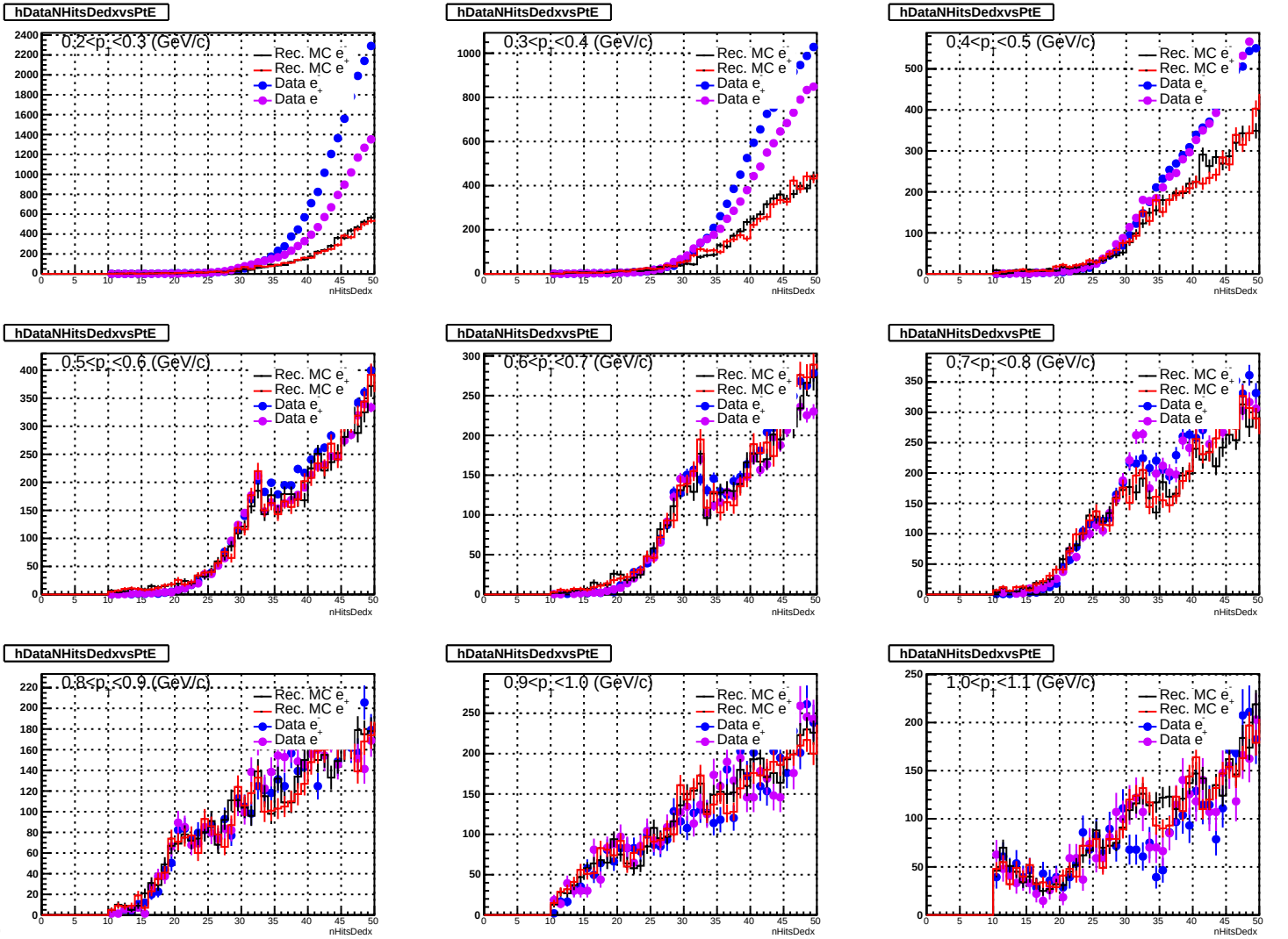
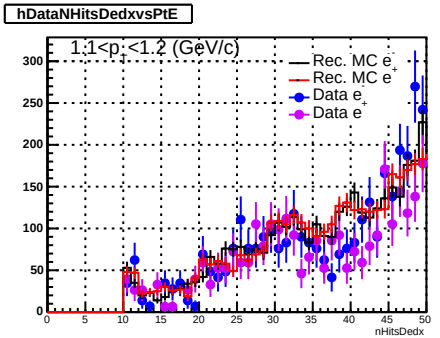
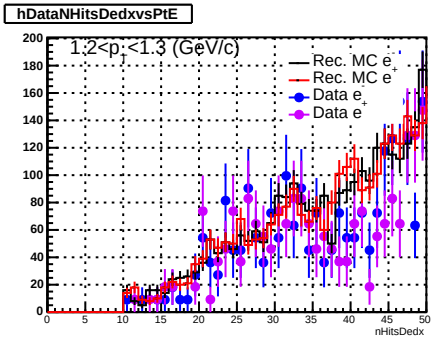
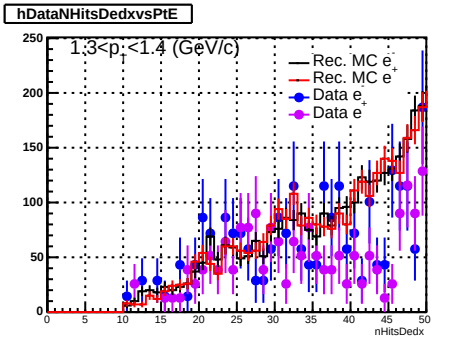

hRcNHitsPossvsPhiE
Rec. MC e
nHitsPoss
ϕ
hRcNHitsPossvsPhiP
Rec. MC e+
nHitsPoss
ϕ
hDataNHitsPossvsPhiE
Data e-
nHitsPoss
ϕ
hDataNHitsPossvsPhiP
Data e+
nHitsPoss
ϕ

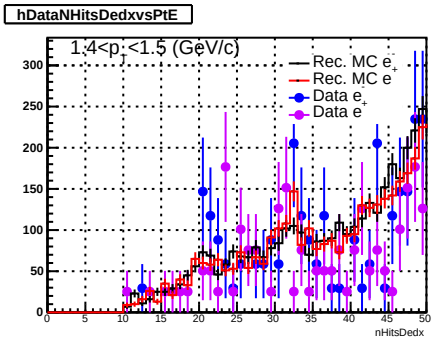

hRcNHitsDedxvsPtE
Rec. MC e-
hRcNHitsDedxvsPtP
Rec. MC e+
hDataNHitsDedxvsPtE
Data e-
hDataNHitsDedxvsPtP
Data e+
nHitsDedx
pT (GeV/c)

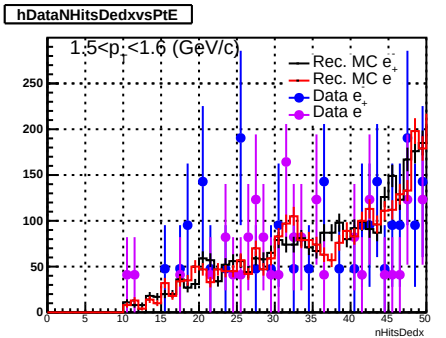

hDataNHitsDedxvsPtE
0.2<p_T<0.3 (GeV/c)
0.3<p_T<0.4 (GeV/c)
0.4<p_T<0.5 (GeV/c)
0.5<p_T<0.6 (GeV/c)
0.6<p_T<0.7 (GeV/c)
0.7<p_T<0.8 (GeV/c)
0.8<p_T<0.9 (GeV/c)
0.9<p_T<1.0 (GeV/c)
1.0<p_T<1.1 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

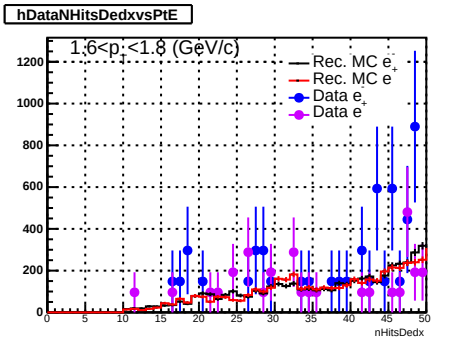

hDataNHitsDedxvsPtE
1.1<p_T<1.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

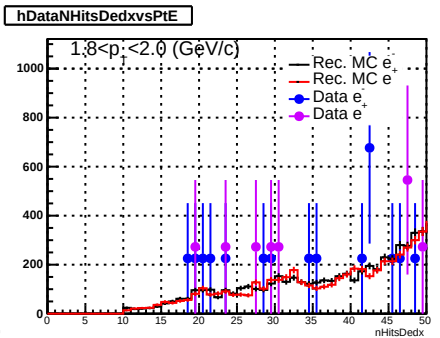

hDataNHitsDedxvsPtE
1.2<p_T<1.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

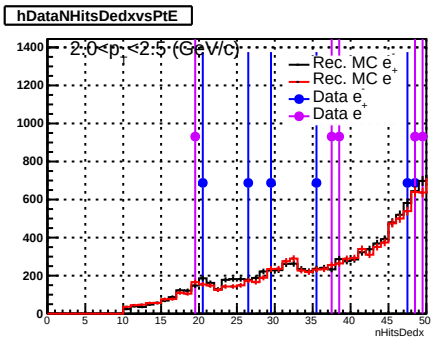

hDataNHitsDedxvsPtE
1.3<p_T<1.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

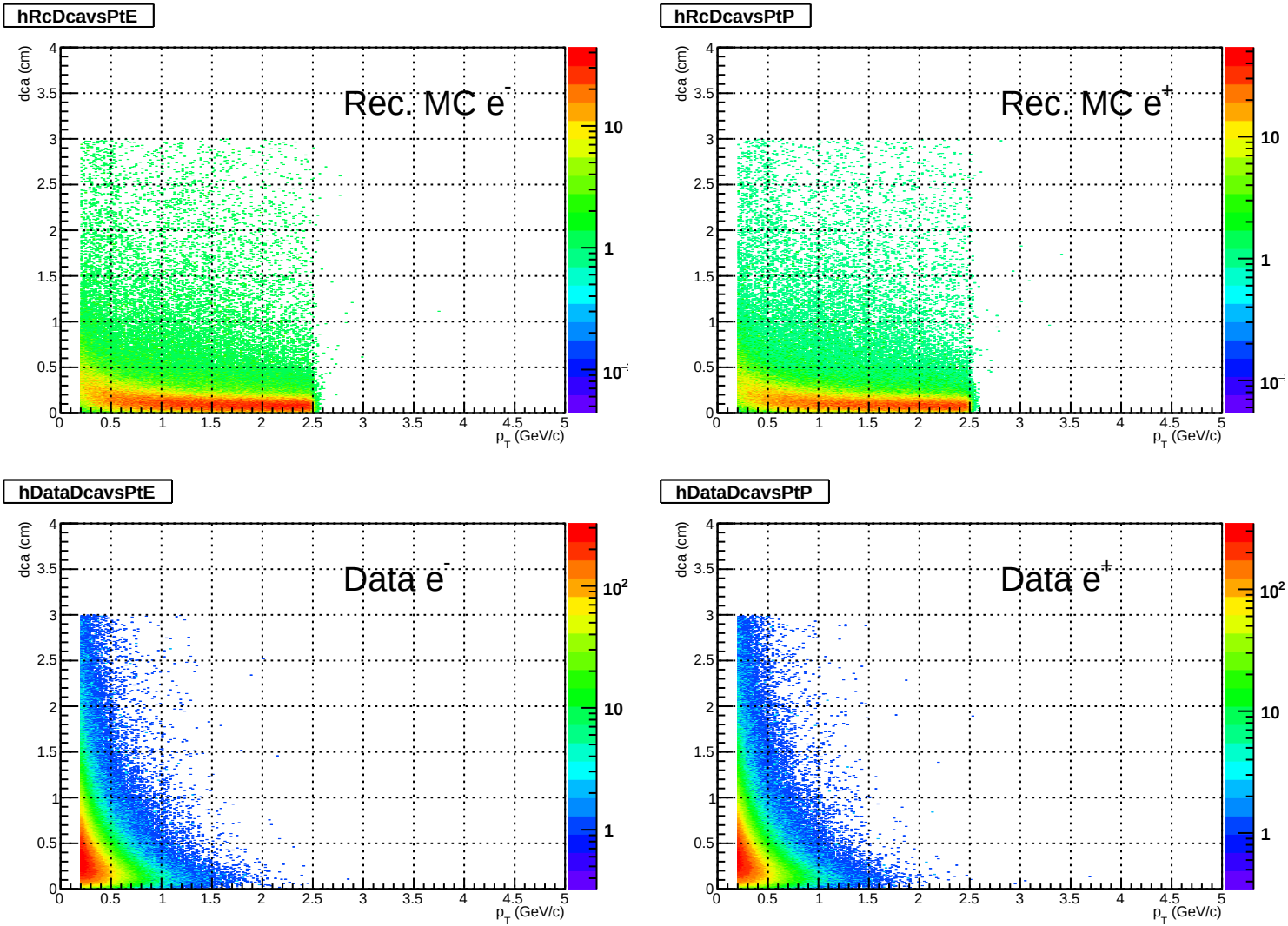

hDataNHitsDedxvsPtE
1.4<p_T<1.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

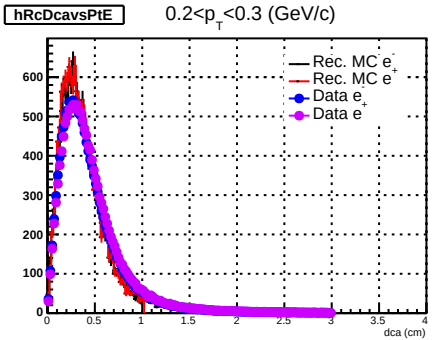

hDataNHitsDedxvsPtE
1.5<p_T<1.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

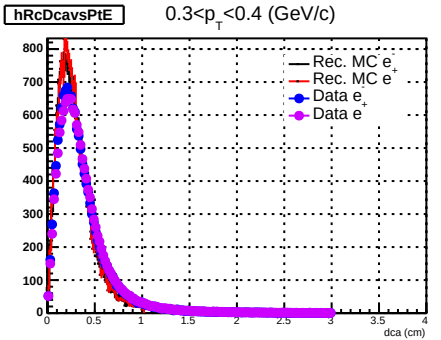

hDataNHitsDedxvsPtE
1.6<p_T<1.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

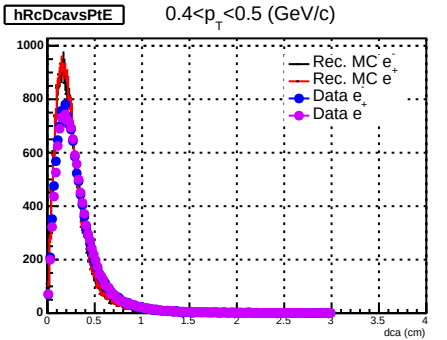

hDataNHitsDedxvsPtE
1.8<p_T<2.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

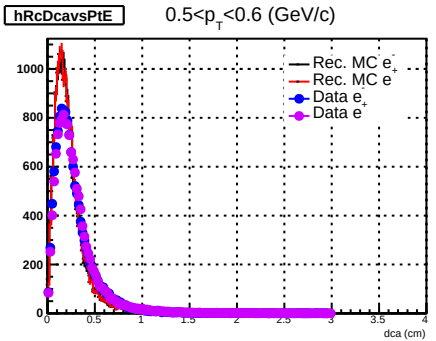

hDataNHitsDedxvsPtE
2.0<p_T<2.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nHitsDedx

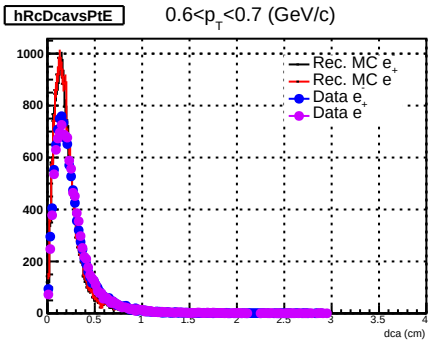

hRcDcavsPtE
Rec. MC e-
hRcDcavsPtP
Rec. MC e+
hDataDcavsPtE
Data e-
hDataDcavsPtP
Data e+
dca (cm)
pT (GeV/c)

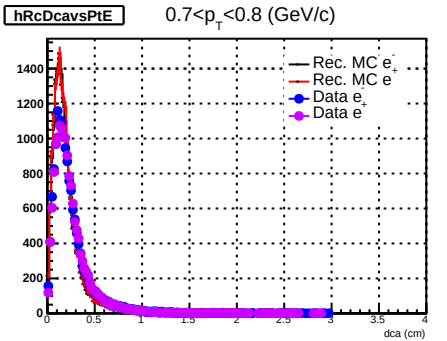

hRcDcavsPtE
0.2<p_T<0.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

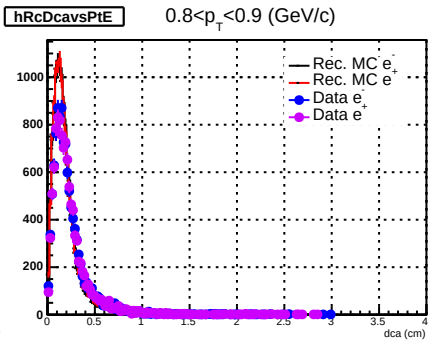

hRcDcavsPtE
0.3<p_T<0.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

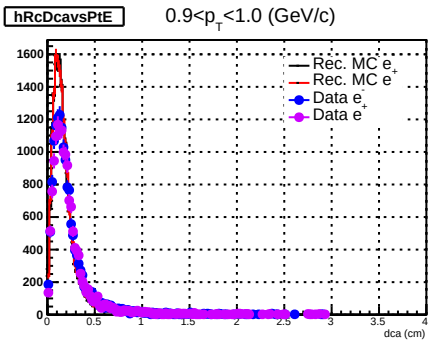

hRcDcavsPtE
0.4<p_T<0.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

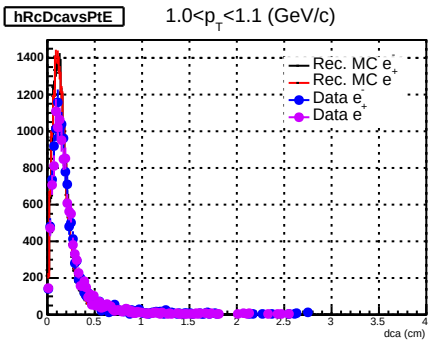

hRcDcavsPtE
0.5<p_T<0.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

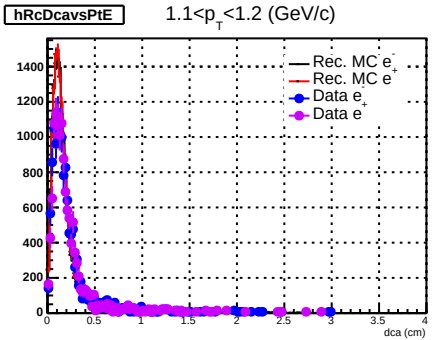

hRcDcavsPtE
0.6<p_T<0.7 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

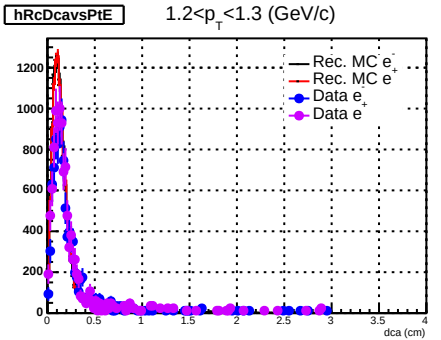

hRcDcavsPtE
0.7<p_T<0.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

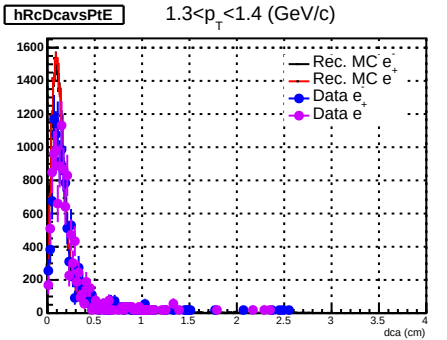

hRcDcavsPtE
0.8<p_T<0.9 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

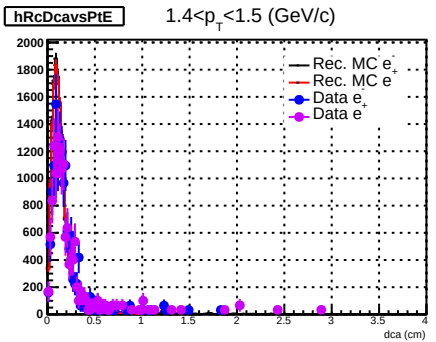

hRcDcavsPtE
0.9<p_T<1.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

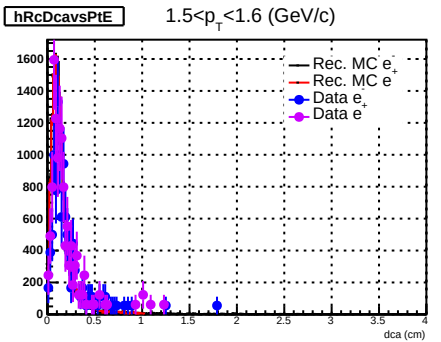

hRcDcavsPtE
1.0<p_T<1.1 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

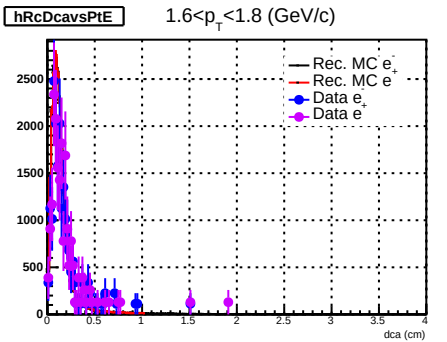

hRcDcavsPtE
1.1<p_T<1.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

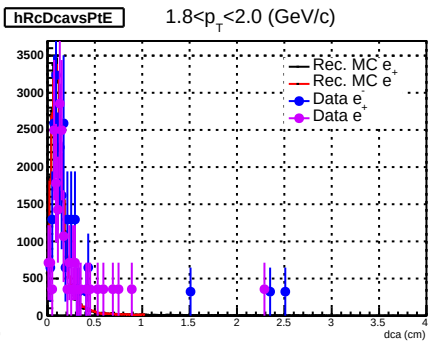

hRcDcavsPtE
1.2<p_T<1.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

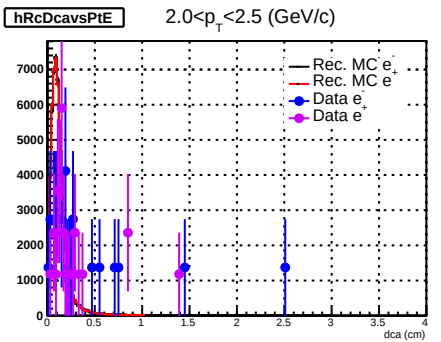

hRcDcavsPtE
1.3<p_T<1.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

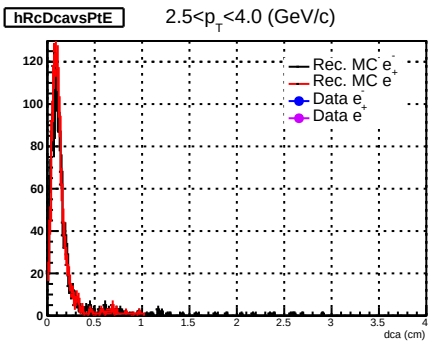

hRcDcavsPtE
1.4<p_T<1.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

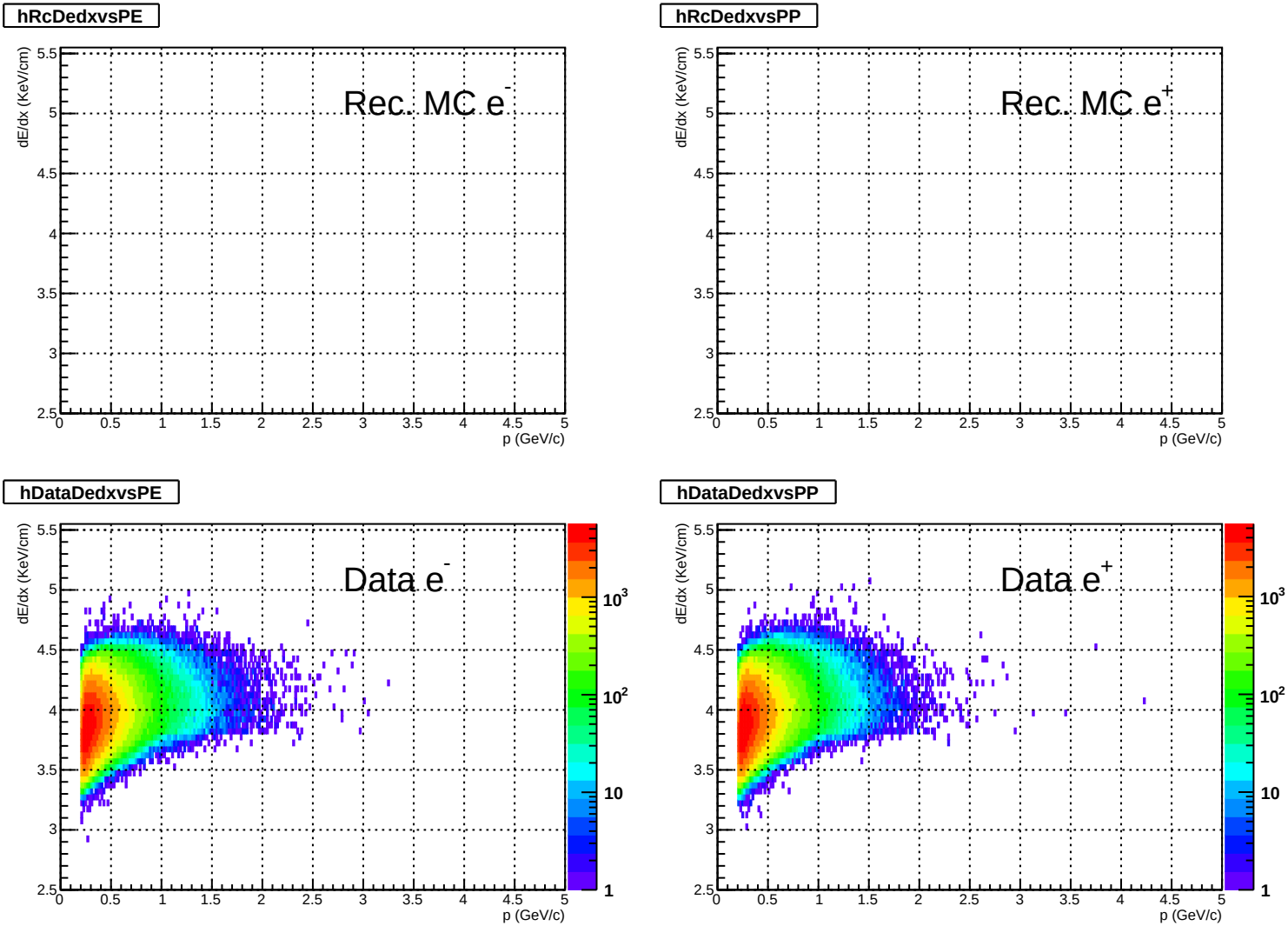

hRcDcavsPtE
1.5<p_T<1.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)


hRcDcavsPtE
1.6<p_T<1.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

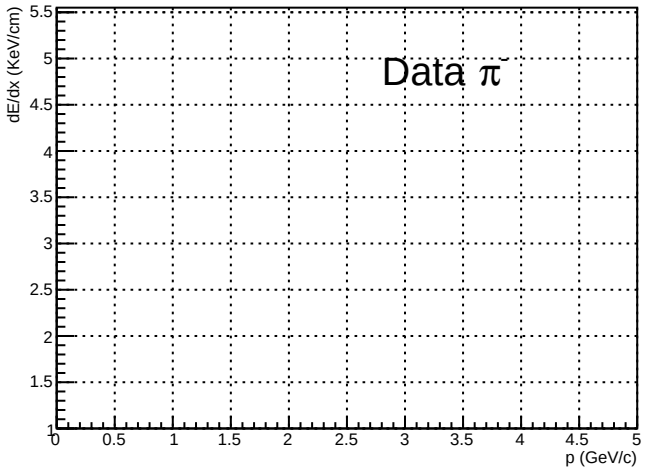

hRcDcavsPtE
1.8<p_T<2.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)


hRcDcavsPtE
2.0<p_T<2.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

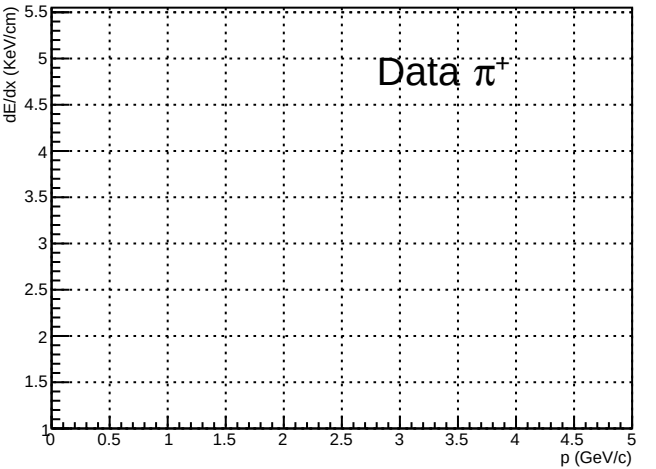

hRcDcavsPtE
2.5<p_T<4.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
dca (cm)

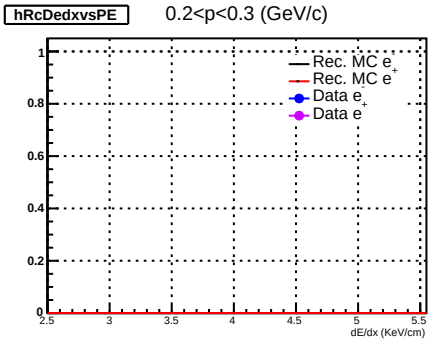

hRcDedxvsPE
Rec. MC e-
hRcDedxvsPP
Rec. MC e+
hDataDedxvsPE
Data e-
hDataDedxvsPP
Data e+
dE/dx (KeV/cm)
p (GeV/c)
10^3
10^2
10
1

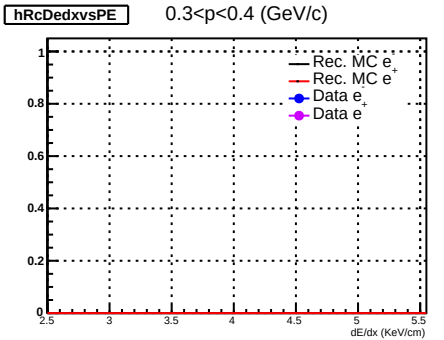
hDataPiDedxvsPM

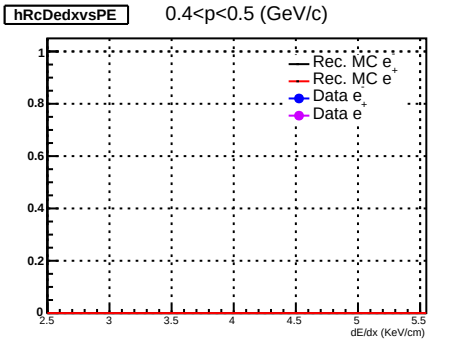


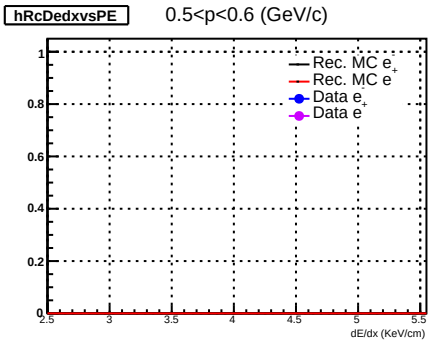
hDataPiDedxvsPP

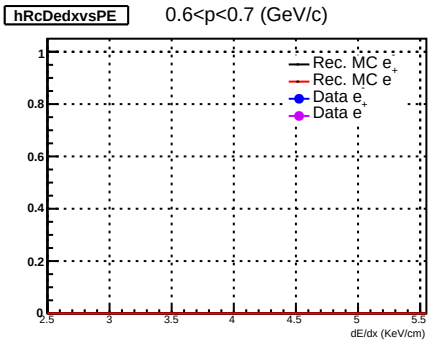


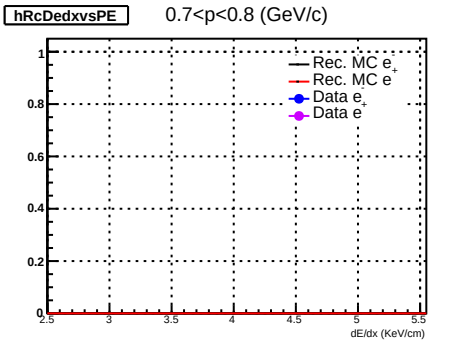

hRcDedxvsPE
0.2<p<0.3 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

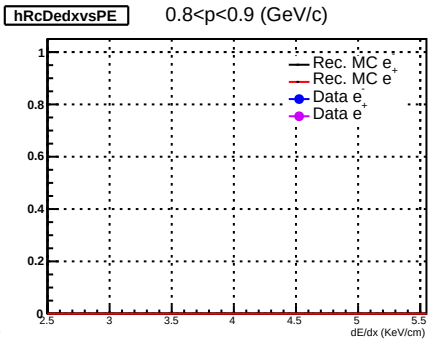

hRcDedxvsPE
0.3<p<0.4 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

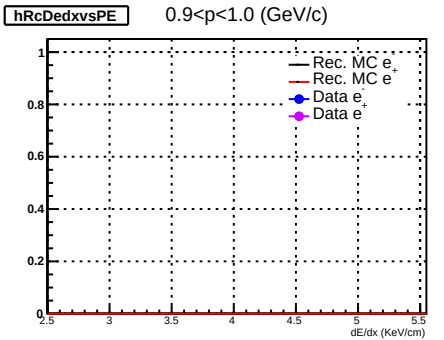

hRcDedxvsPE
0.4<p<0.5 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

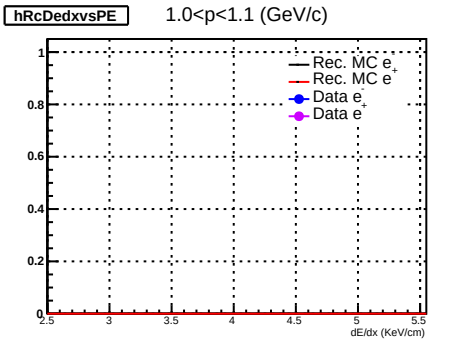

hRcDedxvsPE
0.5<p<0.6 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

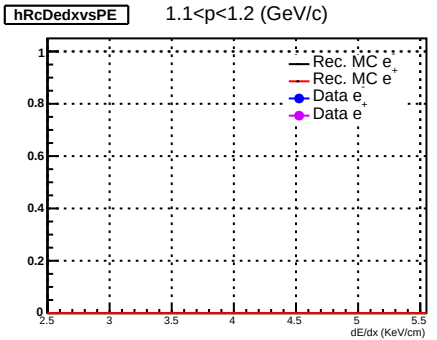

hRcDedxvsPE
0.6<p<0.7 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

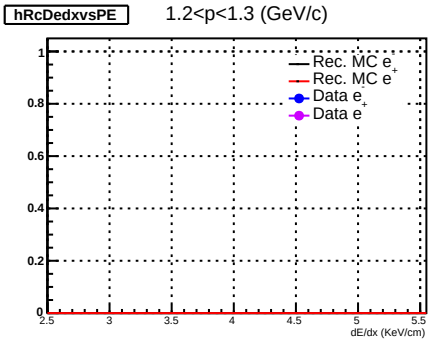

hRcDedxvsPE
0.7<p<0.8 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

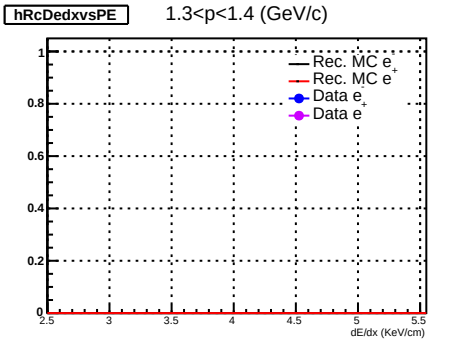

hRcDedxvsPE
0.8<p<0.9 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e-
Data e+
dE/dx (keV/cm)

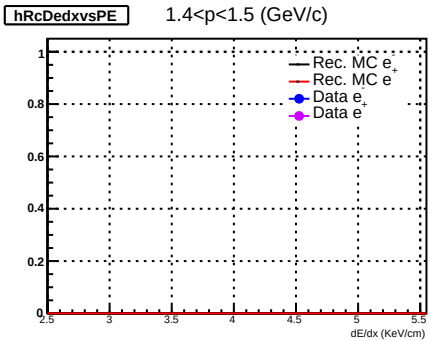

hRcDedxvsPE
0.9<p<1.0 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e-
Data e+
dE/dx (keV/cm)

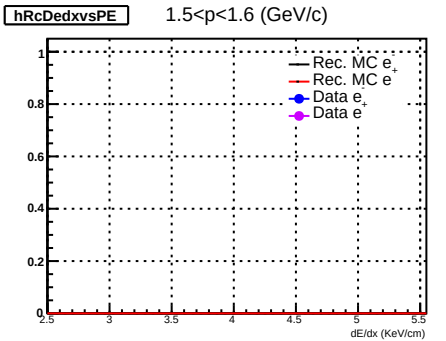

hRcDedxvsPE
1.0<p<1.1 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e-
Data e+
dE/dx (keV/cm)

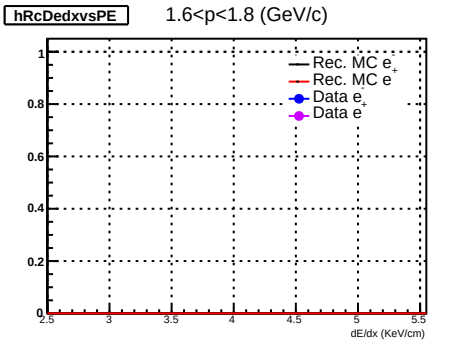

hRcDedxvsPE
1.1<p<1.2 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

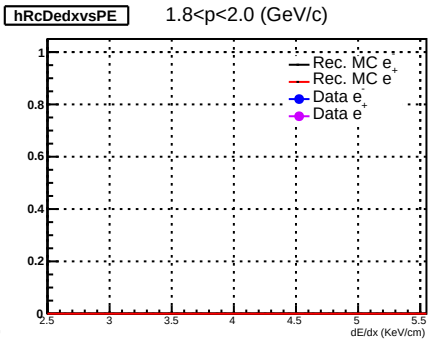

hRcDedxvsPE
1.2<p<1.3 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

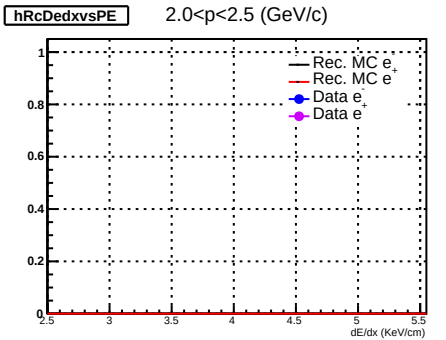

hRcDedxvsPE
1.3<p<1.4 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

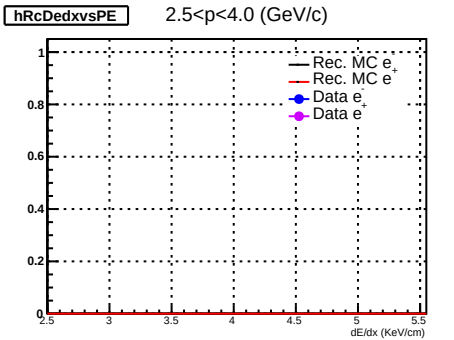

hRcDedxvsPE
1.4<p<1.5 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

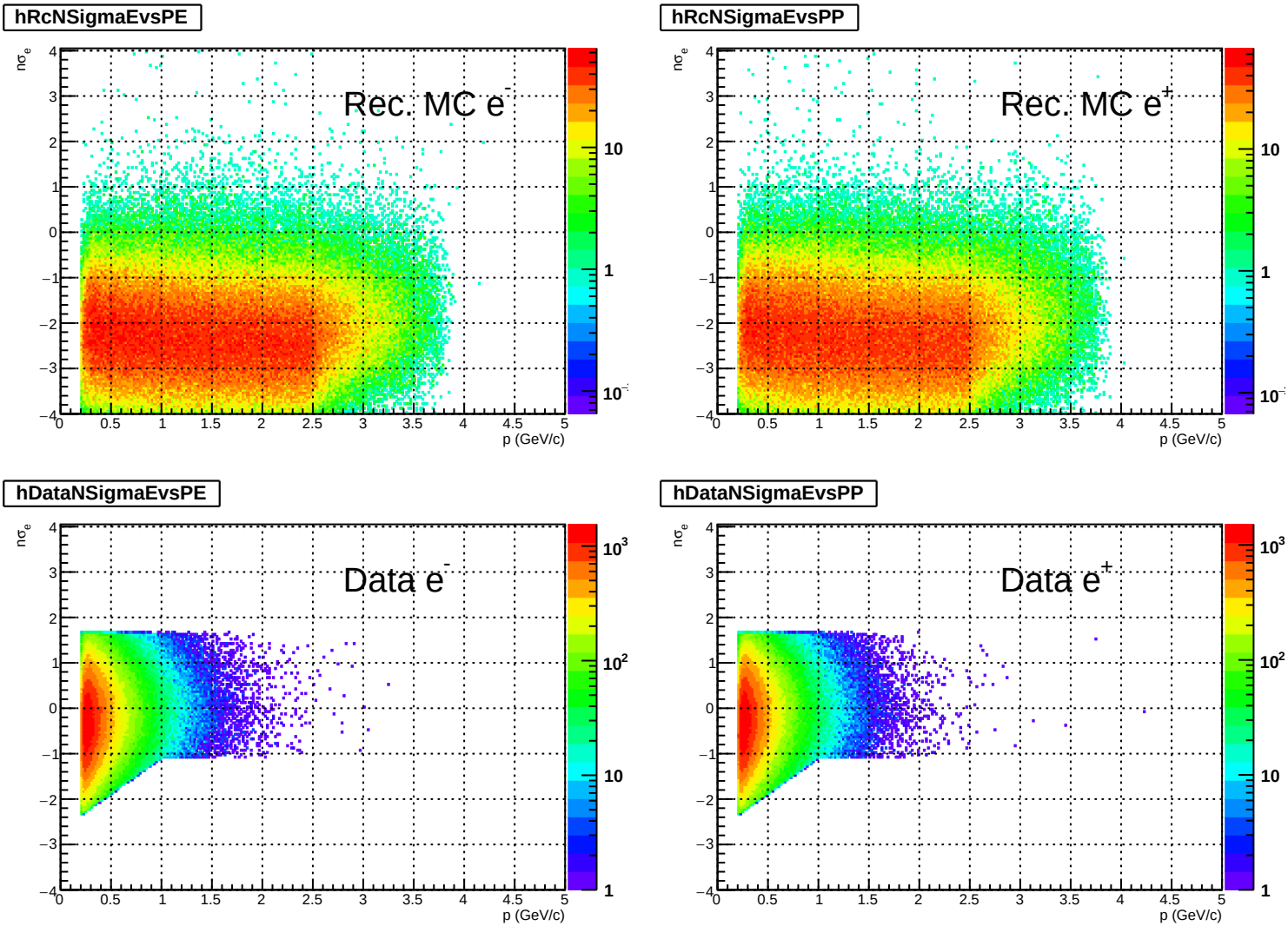

hRcDedxvsPE
1.5<p<1.6 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)


hRcDedxvsPE
1.6<p<1.8 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

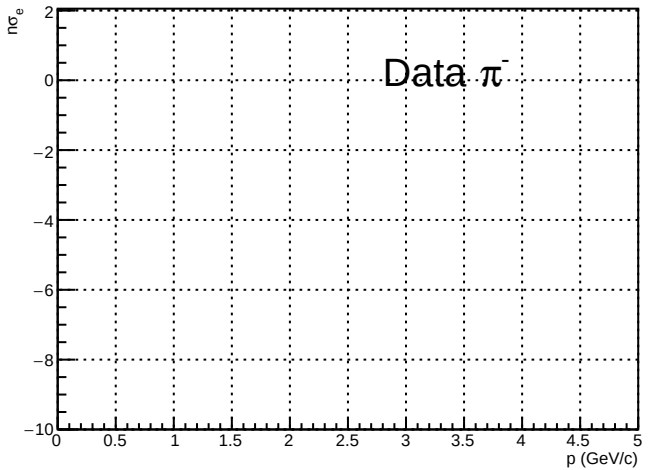

hRcDedxvsPE
1.8<p<2.0 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)


hRcDedxvsPE
2.0<p<2.5 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

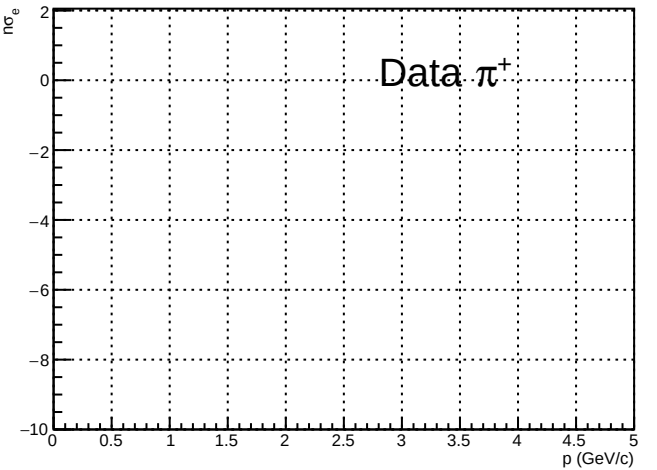

hRcDedxvsPE
2.5<p<4.0 (GeV/c)
Rec. MC e+
Rec. MC e-
Data e+
Data e-
dE/dx (keV/cm)

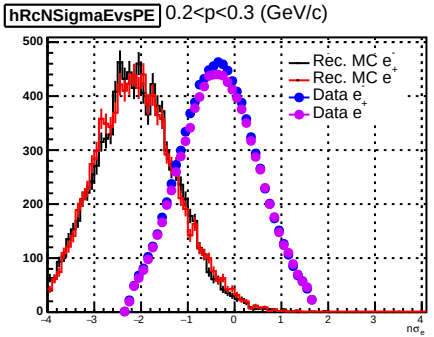

hRcNSigmaEvsPE
Rec. MC e-
hRcNSigmaEvsPP
Rec. MC e+
hDataNSigmaEvsPE
Data e-
hDataNSigmaEvsPP
Data e+
nσe
p (GeV/c)

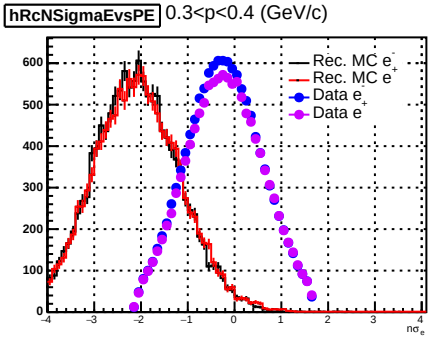
hDataPiNSigmaEvsPM

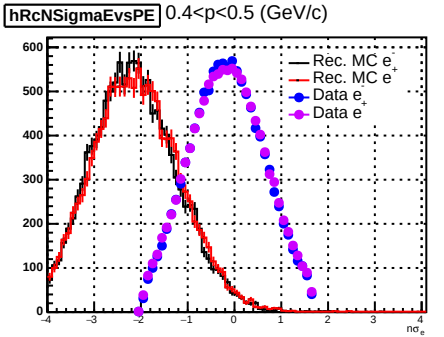


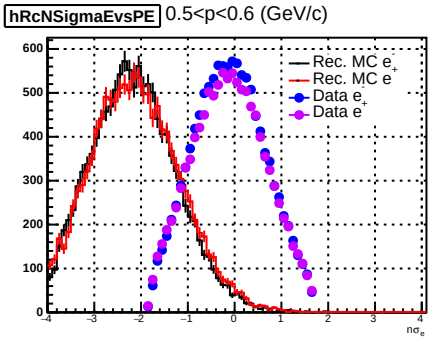
hDataPiNSigmaEvsPP

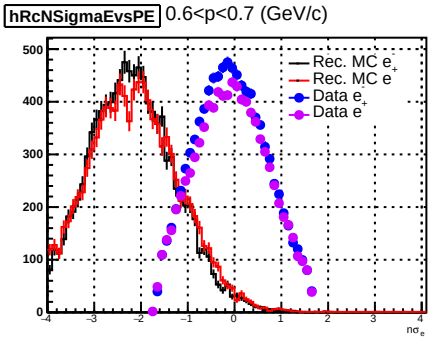


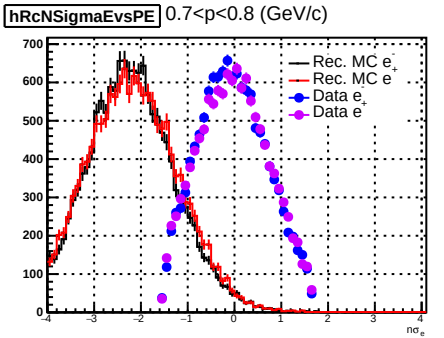

hRcNSigmaEvsPE
0.2<p<0.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

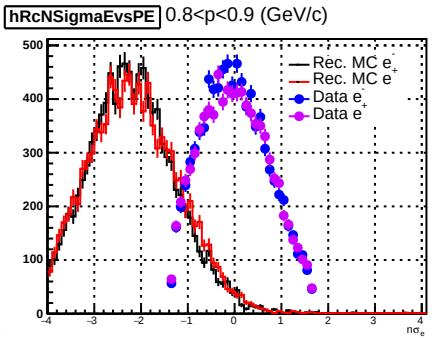

hRcNSigmaEvsPE
0.3<p<0.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

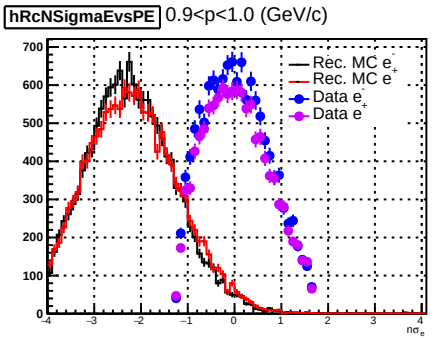

hRcNSigmaEvsPE
0.4<p<0.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

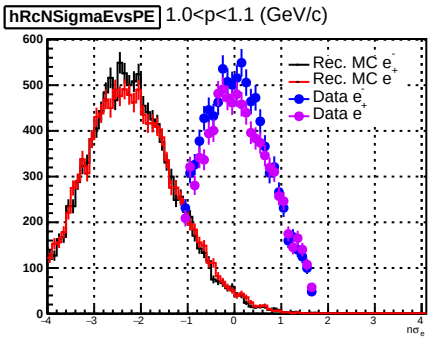

hRcNSigmaEvsPE
0.5<p<0.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

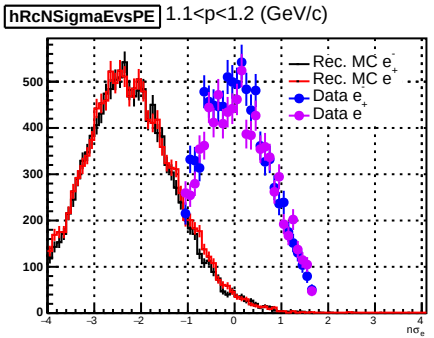

hRcNSigmaEvsPE
0.6<p<0.7 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

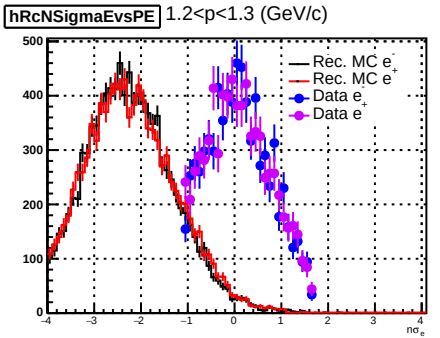

hRcNSigmaEvsPE
0.7<p<0.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

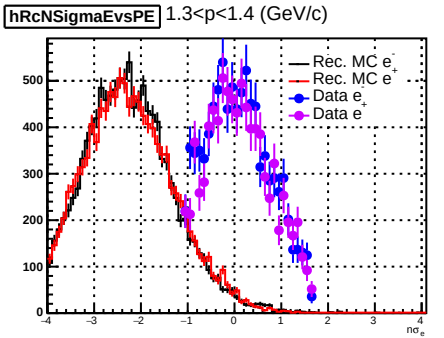

hRcNSigmaEvsPE
0.8<p<0.9 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

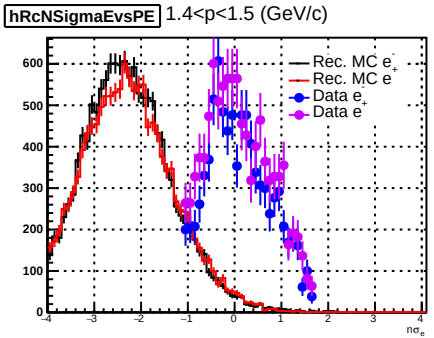

hRcNSigmaEvsPE
0.9<p<1.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

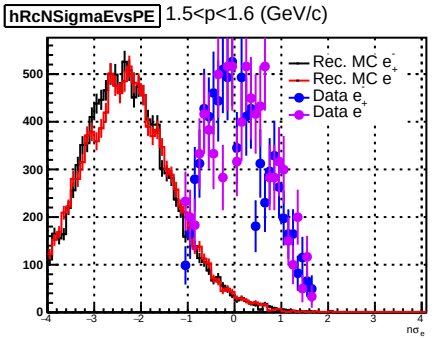

hRcNSigmaEvsPE
1.0<p<1.1 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

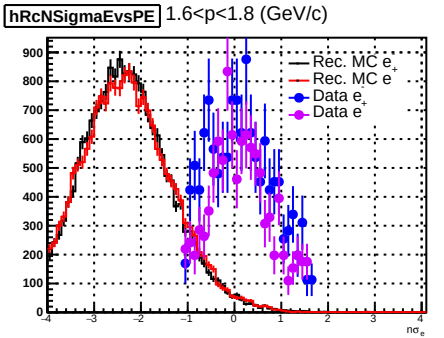

hRcNSigmaEvsPE
1.1<p<1.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe


hRcNSigmaEvsPE
1.2<p<1.3 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe


hRcNSigmaEvsPE
1.3<p<1.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe


hRcNSigmaEvsPE
1.4<p<1.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe


hRcNSigmaEvsPE
1.5<p<1.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe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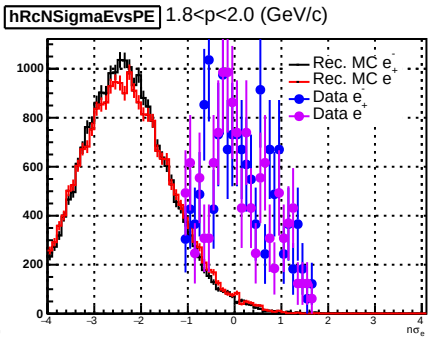
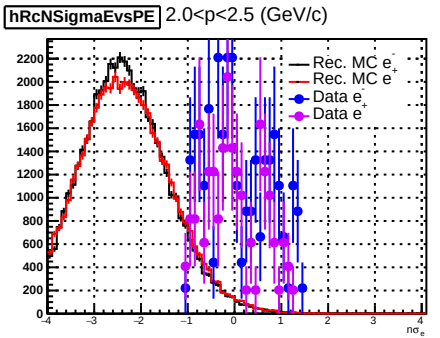
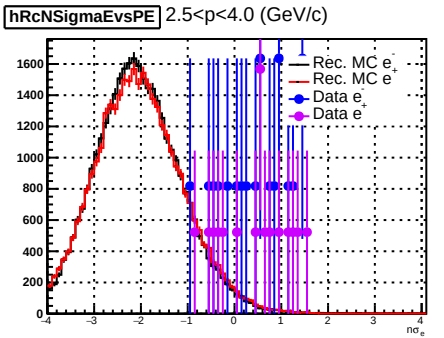
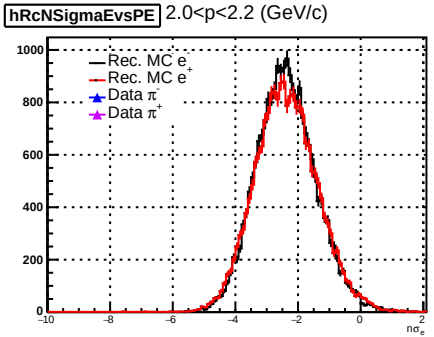
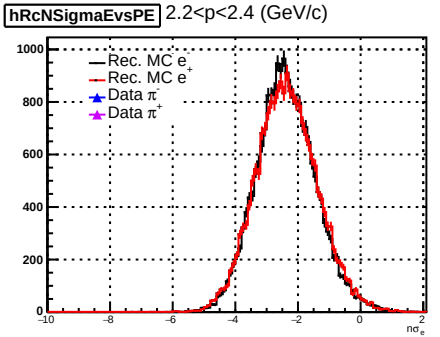
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

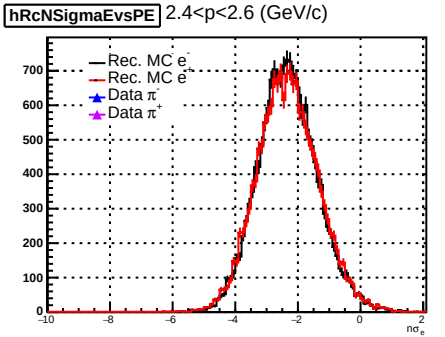

hRcNSigmaEvsPE
1.8<p<2.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

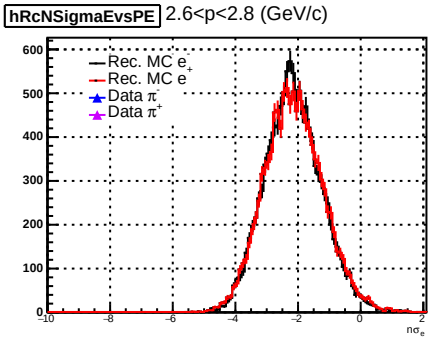

hRcNSigmaEvsPE
2.0<p<2.5 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

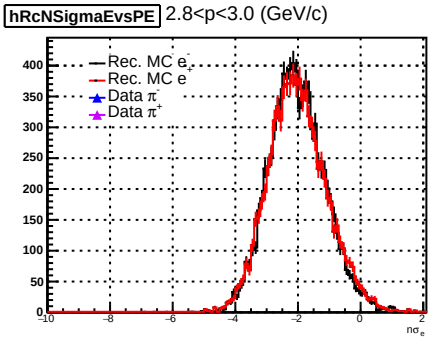

hRcNSigmaEvsPE
2.5<p<4.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data e-
Data e+
nσe

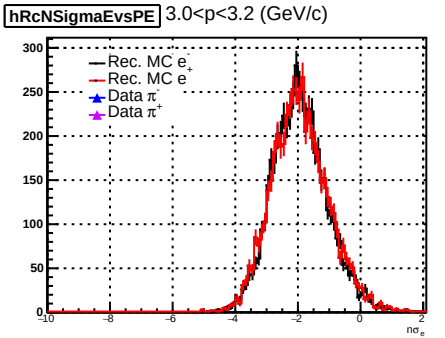

hRcNSigmaEvsPE
2.0<p<2.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

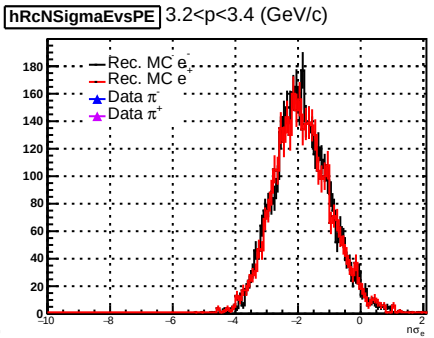

hRcNSigmaEvsPE
2.2<p<2.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

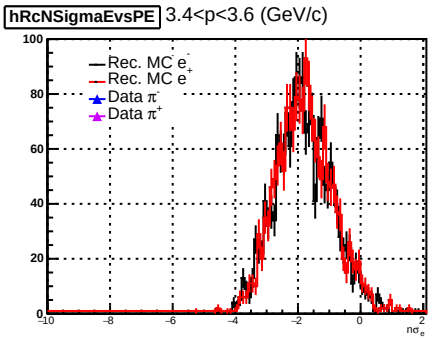

hRcNSigmaEvsPE
2.4<p<2.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe

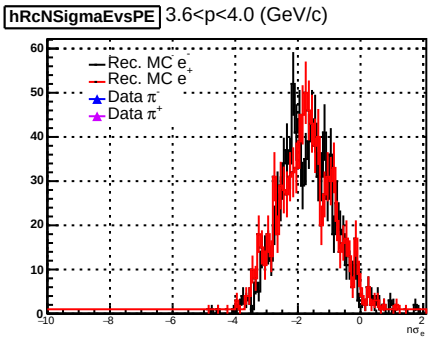

hRcNSigmaEvsPE
2.6<p<2.8 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
2.8<p<3.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
3.0<p<3.2 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
3.2<p<3.4 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
3.4<p<3.6 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe


hRcNSigmaEvsPE
3.6<p<4.0 (GeV/c)
Rec. MC e-
Rec. MC e+
Data π-
Data π+
nσe