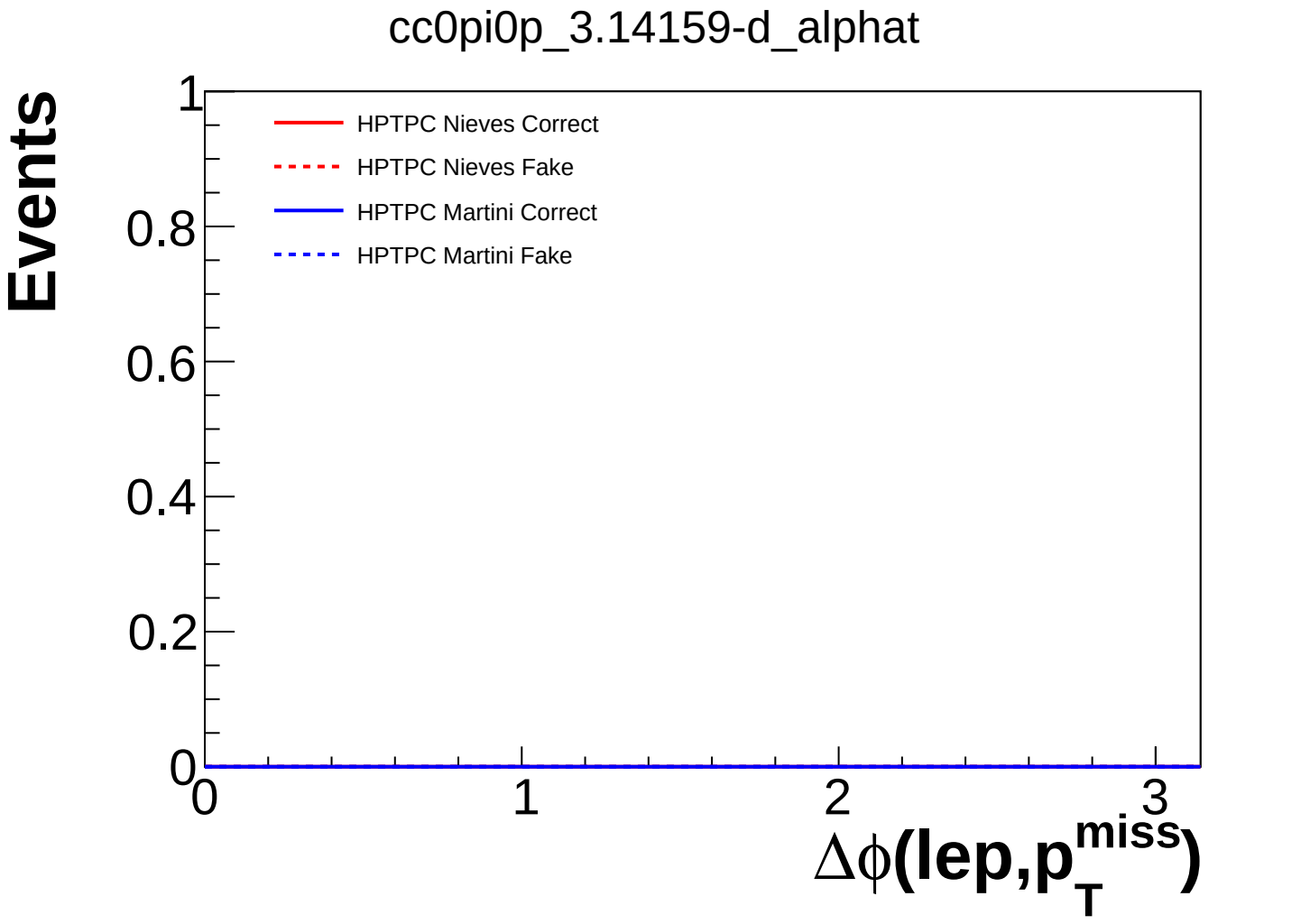
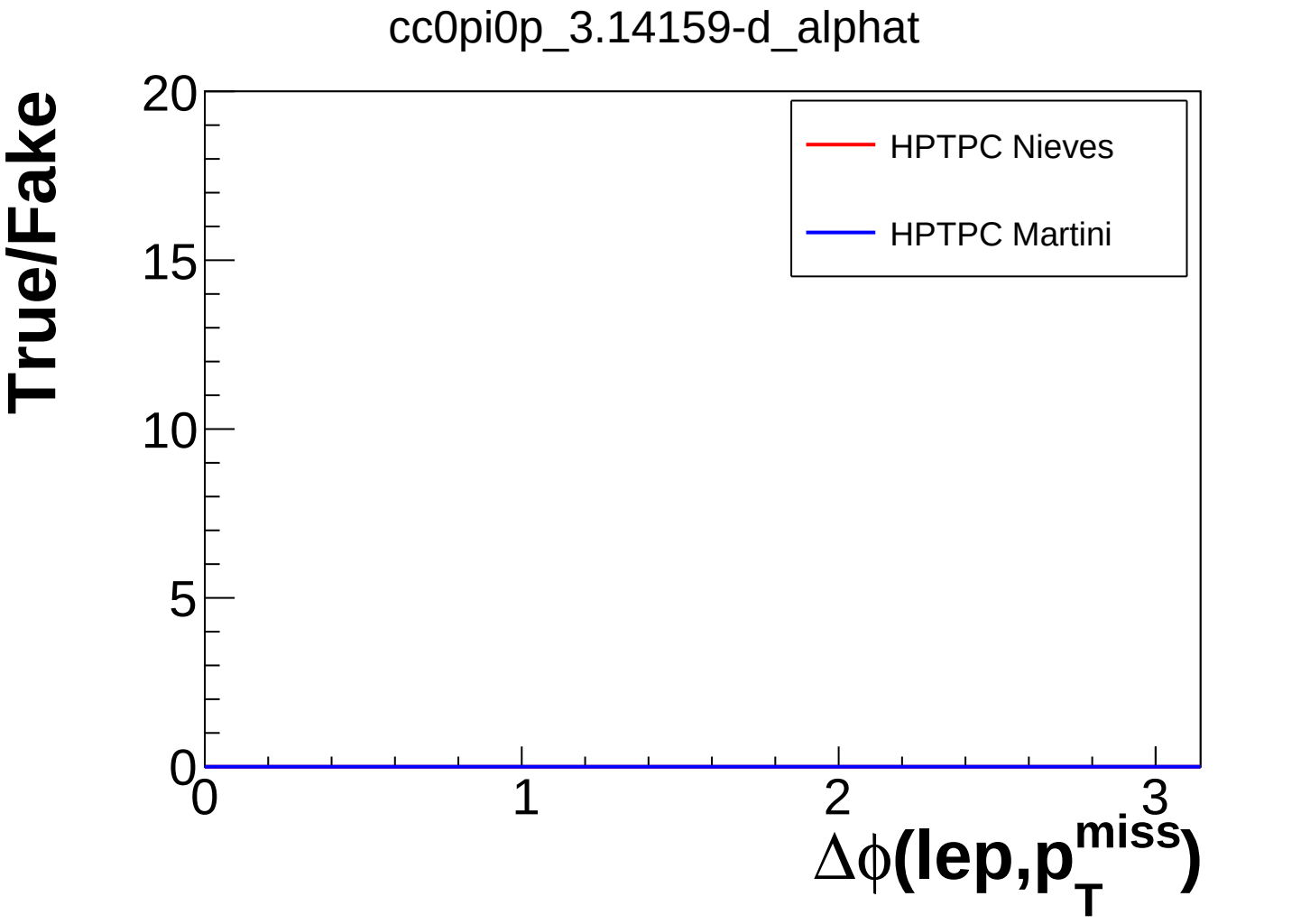
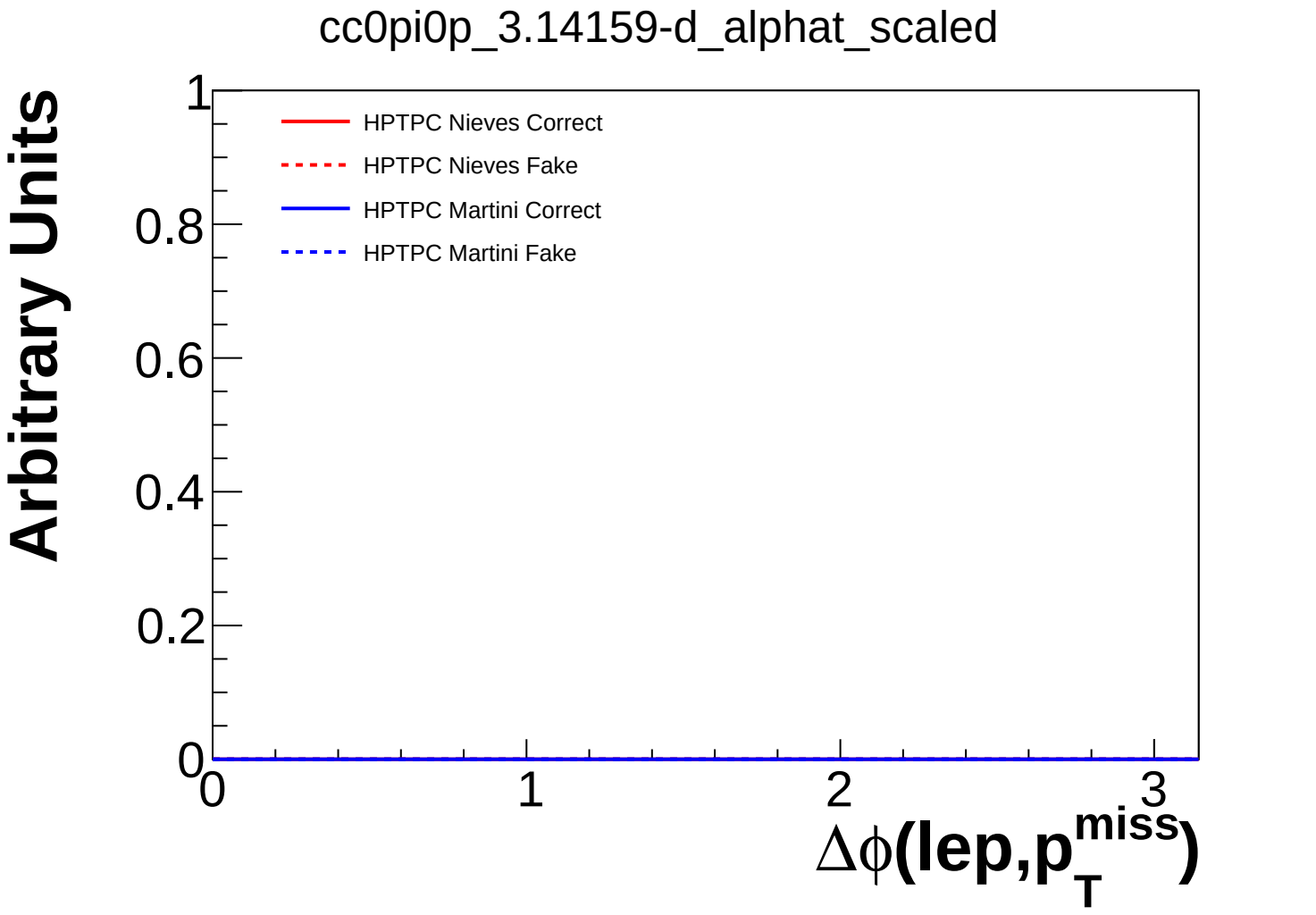
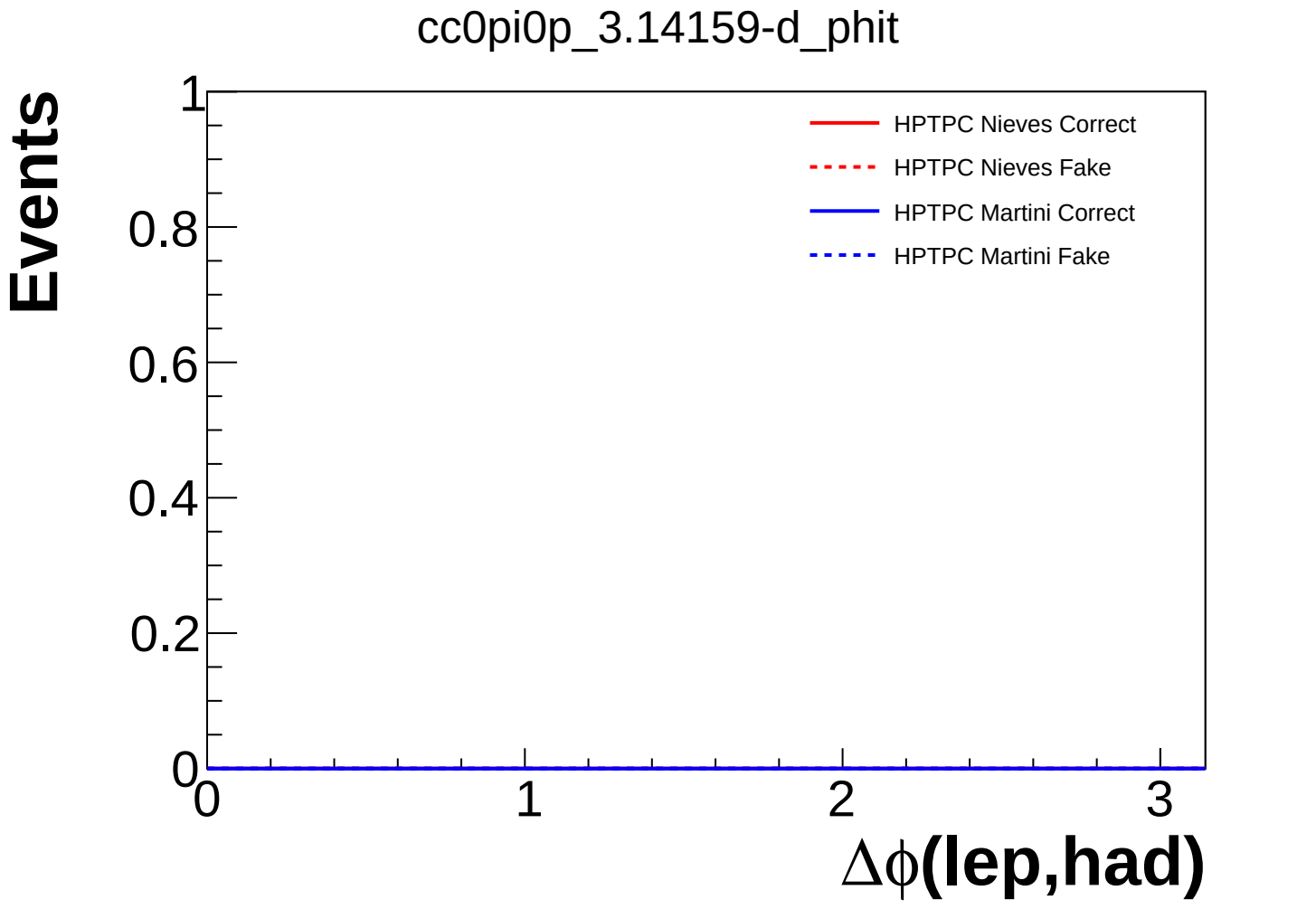
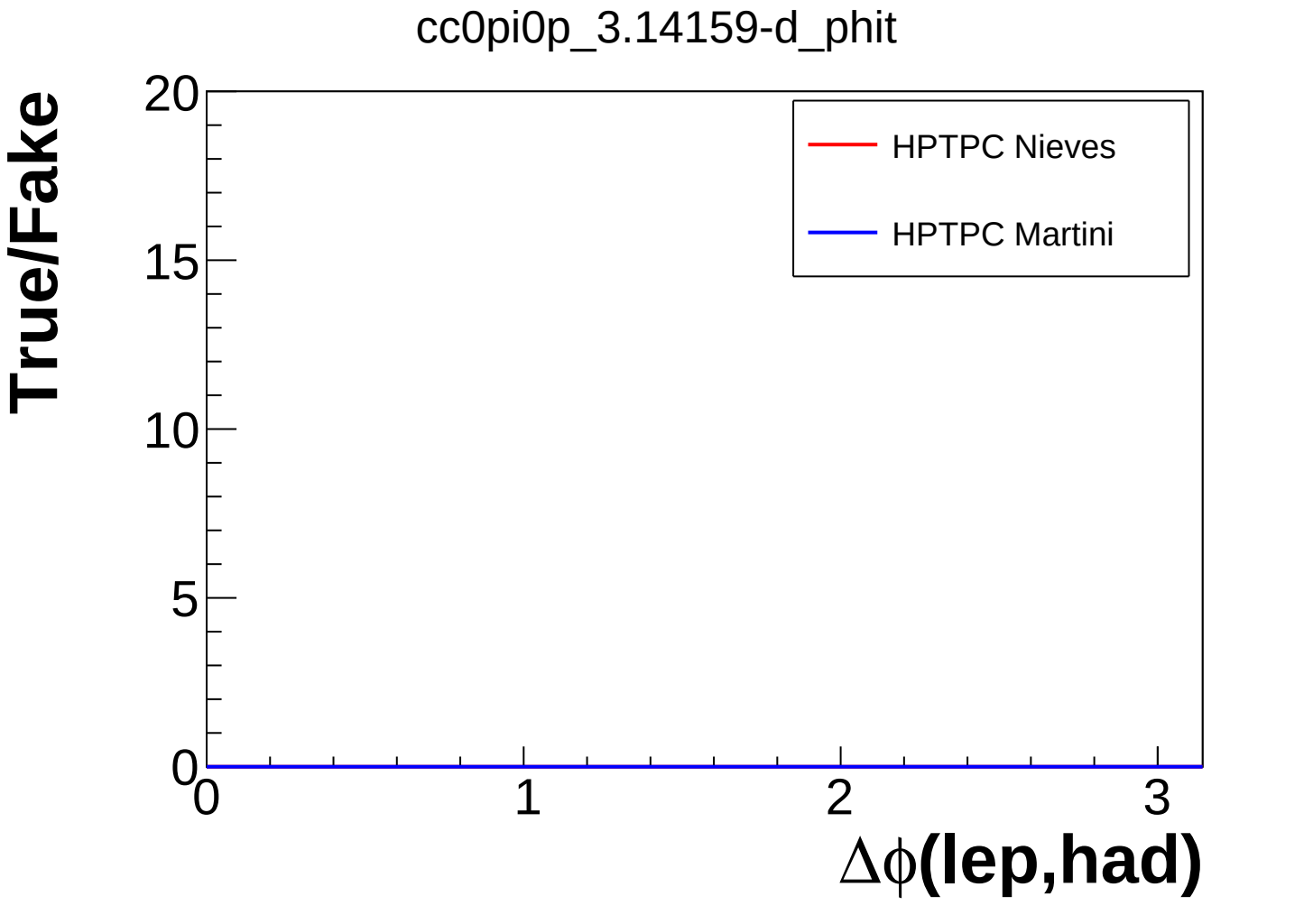
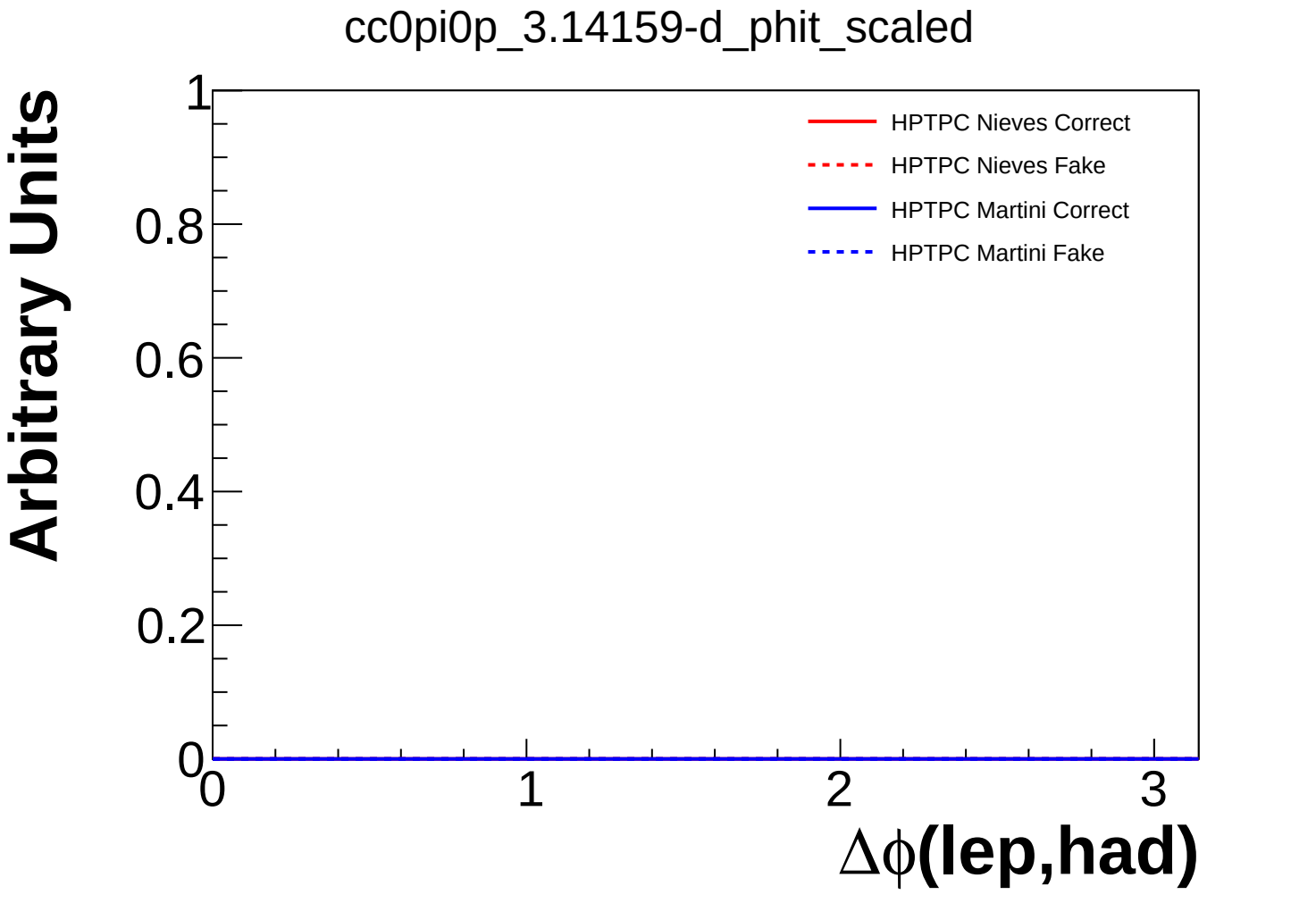

cc0pi0p_3.14159-d_alphat
Events
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake
1
0.8
0.6
0.4
0.2
0
0
1
2
3
Δϕ(lep,p_T^miss)


cc0pi0p_3.14159-d_alphat
True/Fake
20
15
10
5
0
0
1
2
3
HPTPC Nieves
HPTPC Martini
Δϕ(lep,p_T^miss)

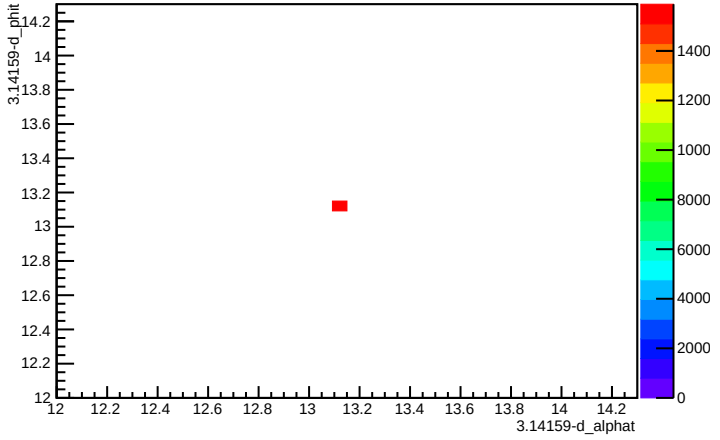

cc0pi0p_3.14159-d_alphat_scaled
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake
Arbitrary Units
1
0.8
0.6
0.4
0.2
0
0
1
2
3
Δϕ(lep,p_T^miss)


cc0pi0p_3.14159-d_phit
Events
1
0.8
0.6
0.4
0.2
0
0
1
2
3
Δϕ(lep,had)
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake

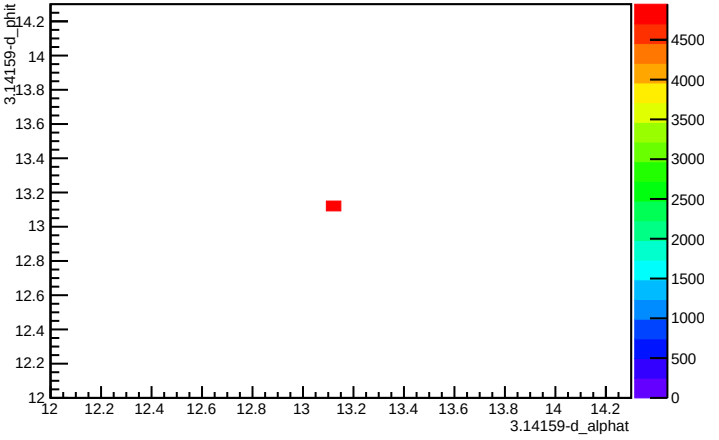

cc0pi0p_3.14159-d_phit
True/Fake
20
15
10
5
0
0
1
2
3
Δϕ(lep,had)
HPTPC Nieves
HPTPC Martini


cc0pi0p_3.14159-d_phit_scaled
Arbitrary Units
1
0.8
0.6
0.4
0.2
0
0
1
2
3
Δϕ(lep,had)
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake

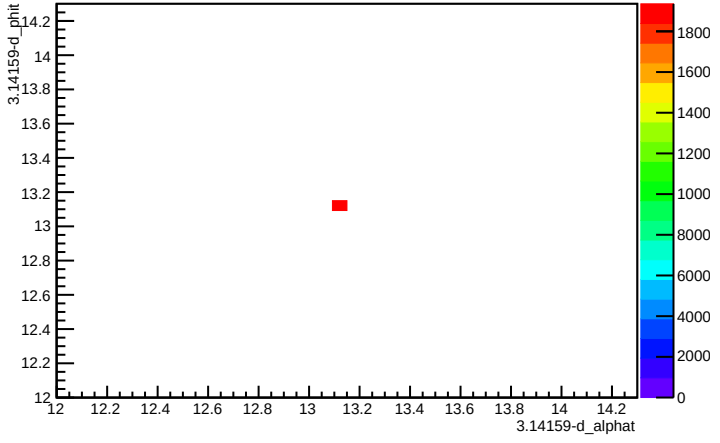
cc0pi0pTrue HPTPC Nieves



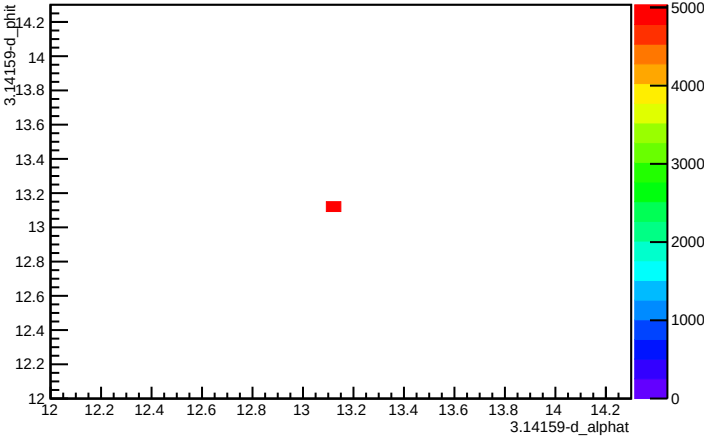
cc0pi0pFake HPTPC Nieves

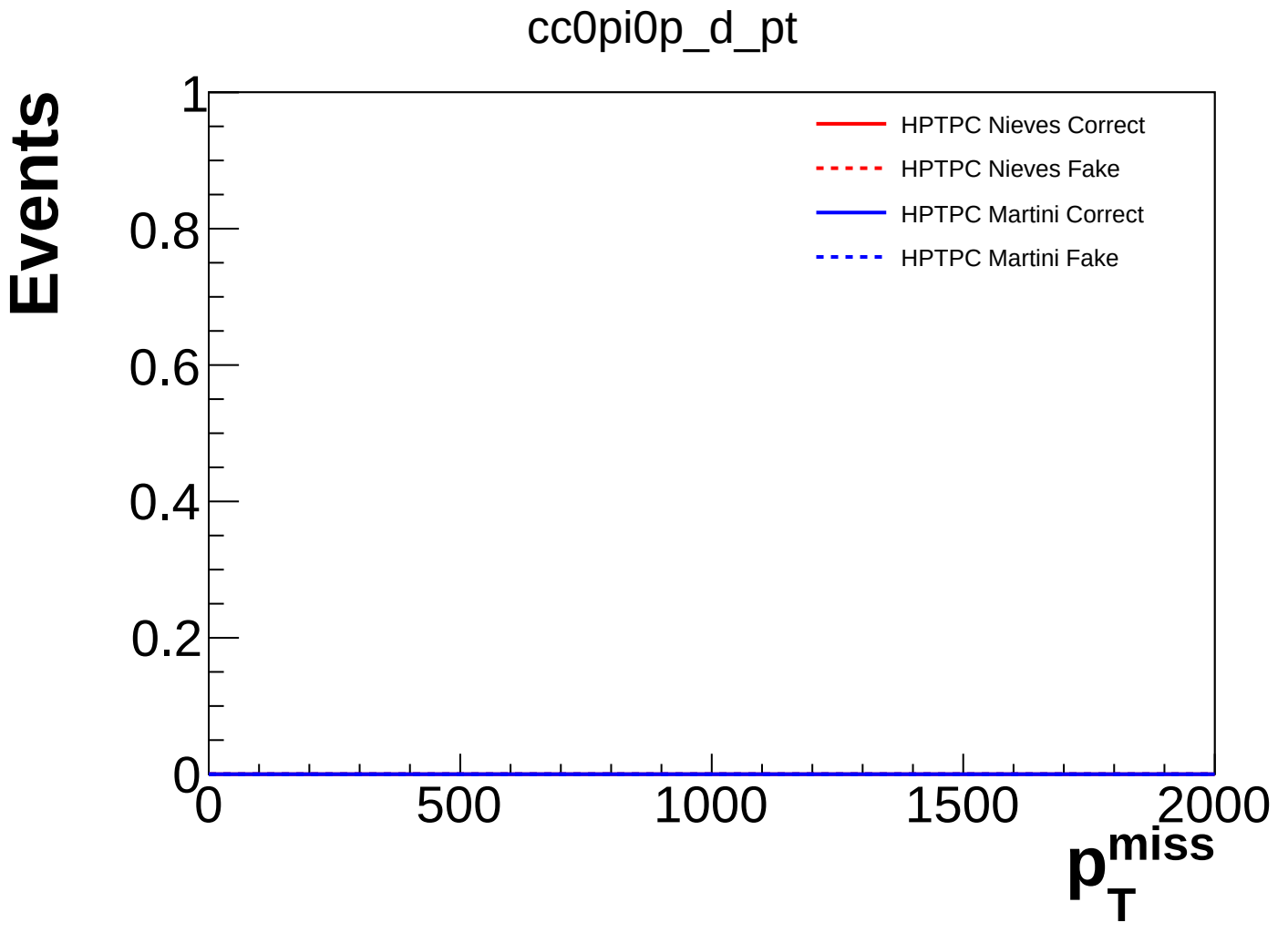


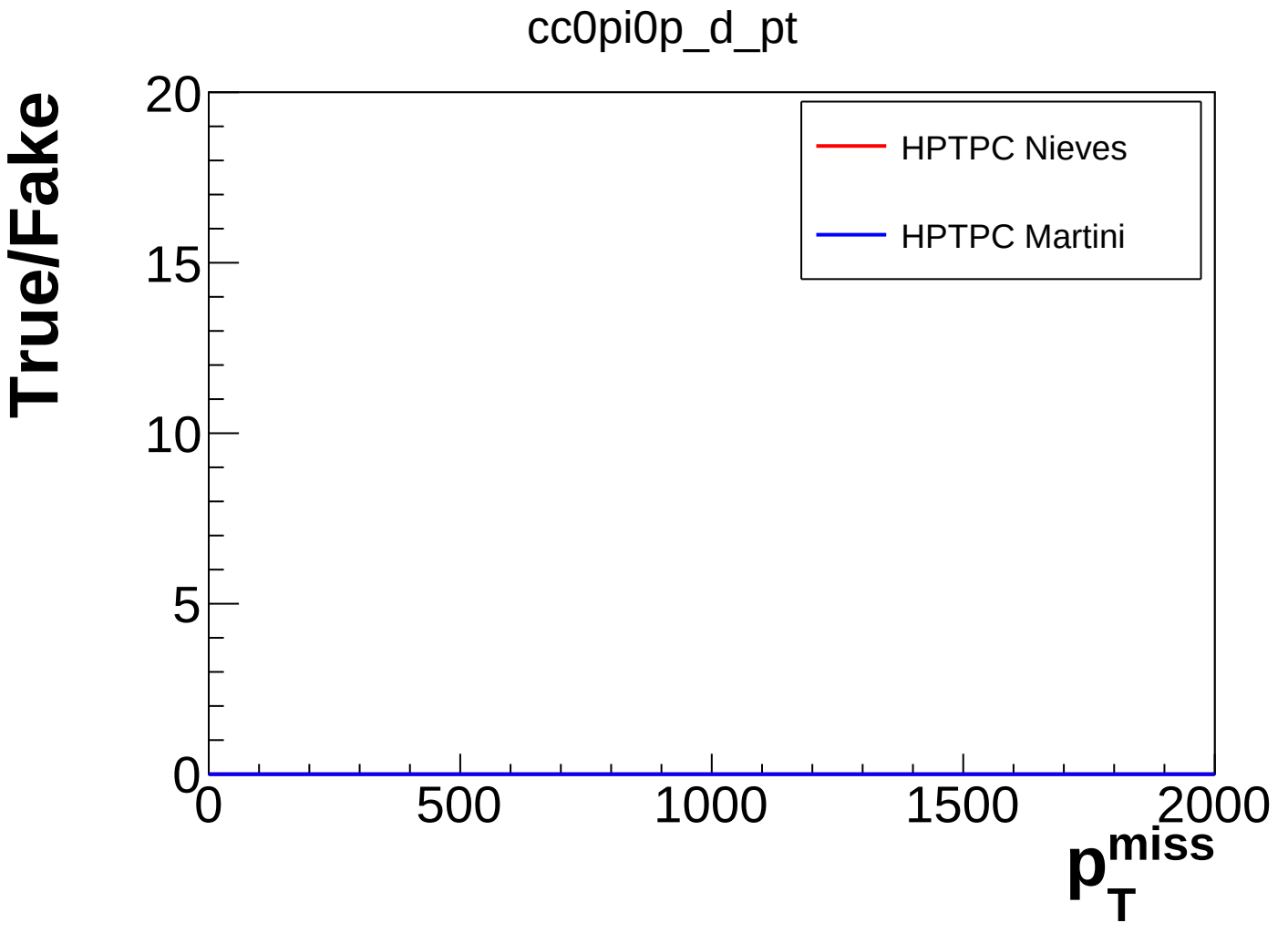
cc0pi0pTrue HPTPC Martini

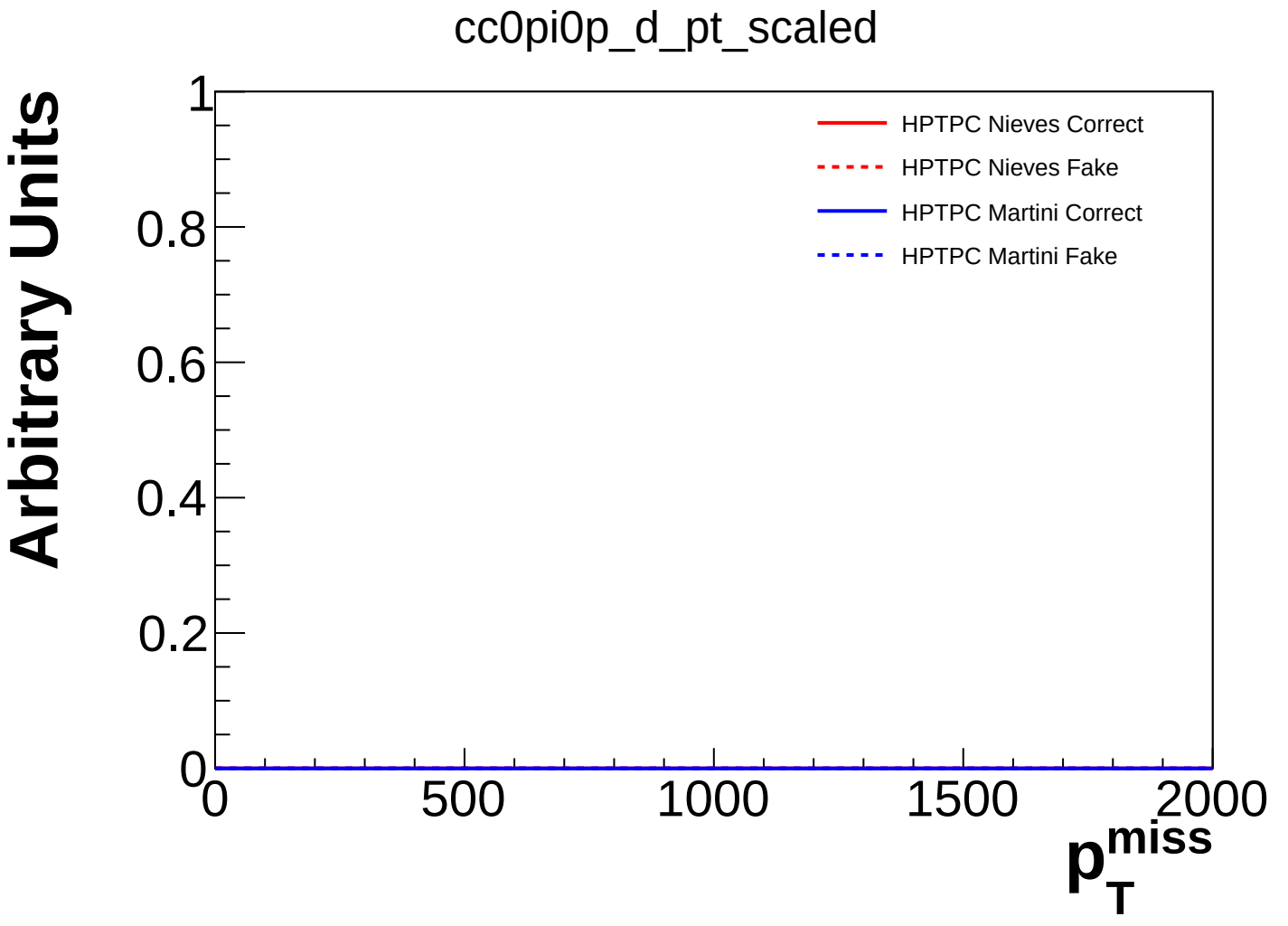


cc0pi0pFake HPTPC Martini

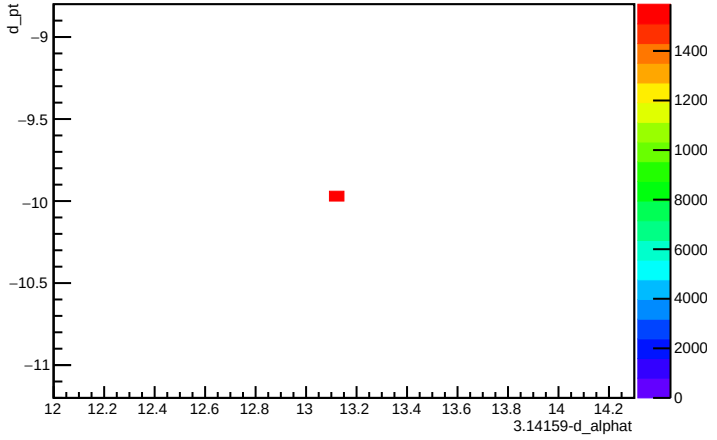



cc0pi0p_d_pt
Events
1
0.8
0.6
0.4
0.2
0
0
500
1000
1500
2000
p_T^{miss}
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake

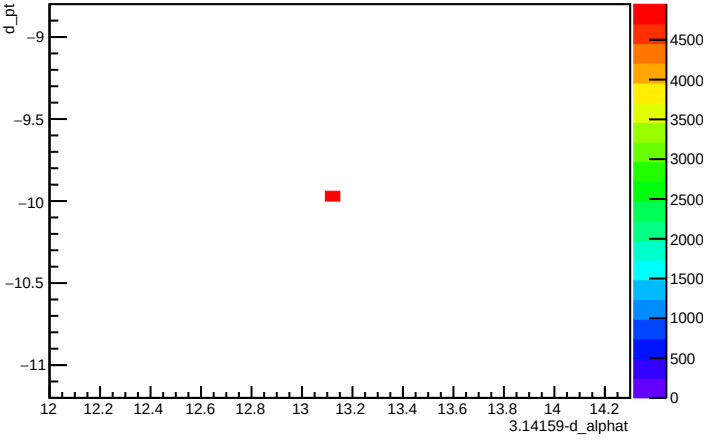

cc0pi0p_d_pt
True/Fake
20
15
10
5
0
0
500
1000
1500
2000
p_T^{miss}
HPTPC Nieves
HPTPC Martini


cc0pi0p_d_pt_scaled
Arbitrary Units
1
0.8
0.6
0.4
0.2
0
0
500
1000
1500
2000
p_T^{miss}
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake

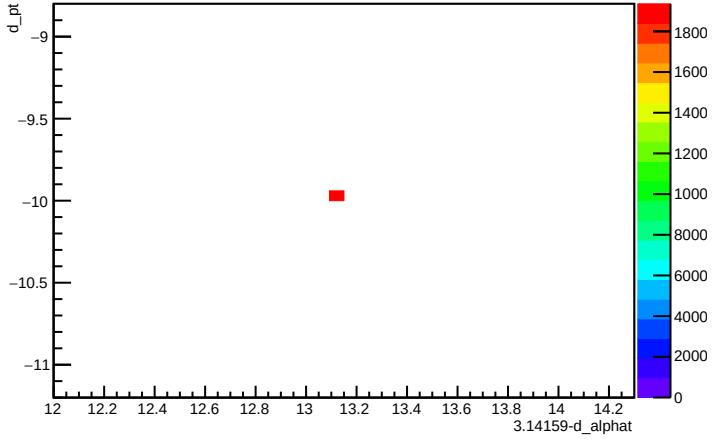
cc0pi0pTrue HPTPC Nieves



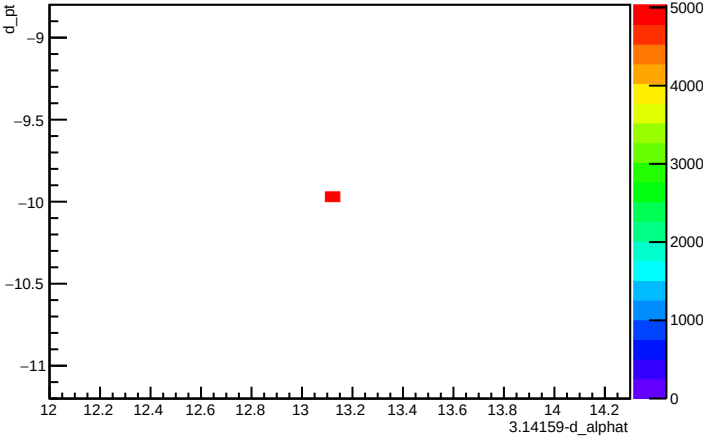
cc0pi0pFake HPTPC Nieves



cc0pi0pTrue HPTPC Martini



cc0pi0pFake HPTPC Martini



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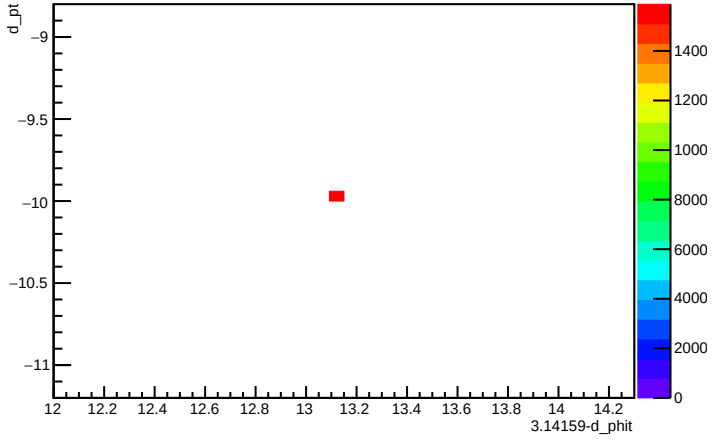
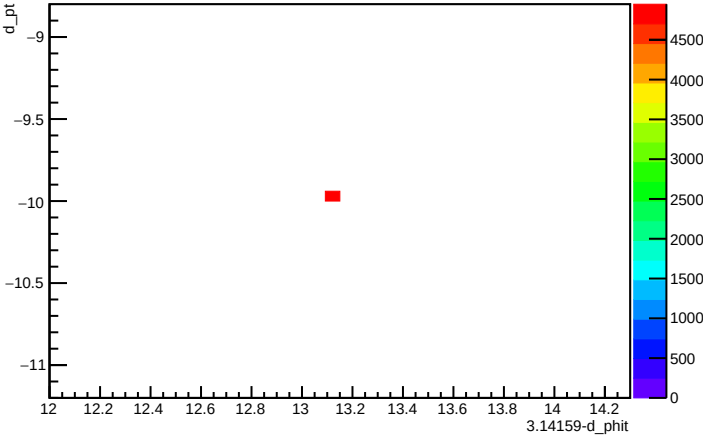
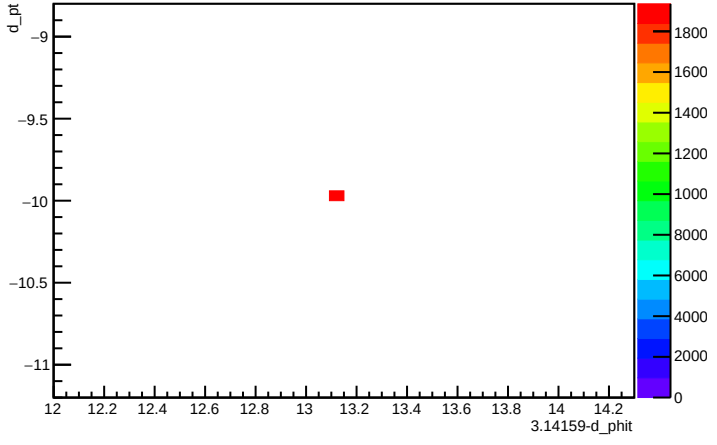


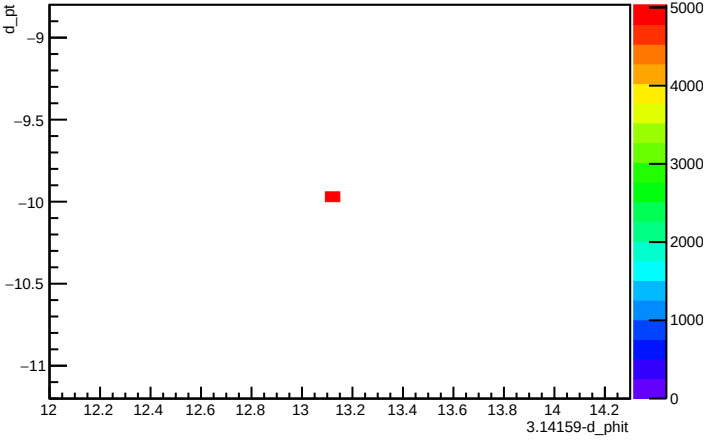
cc0pi0pFake HPTPC Nieves

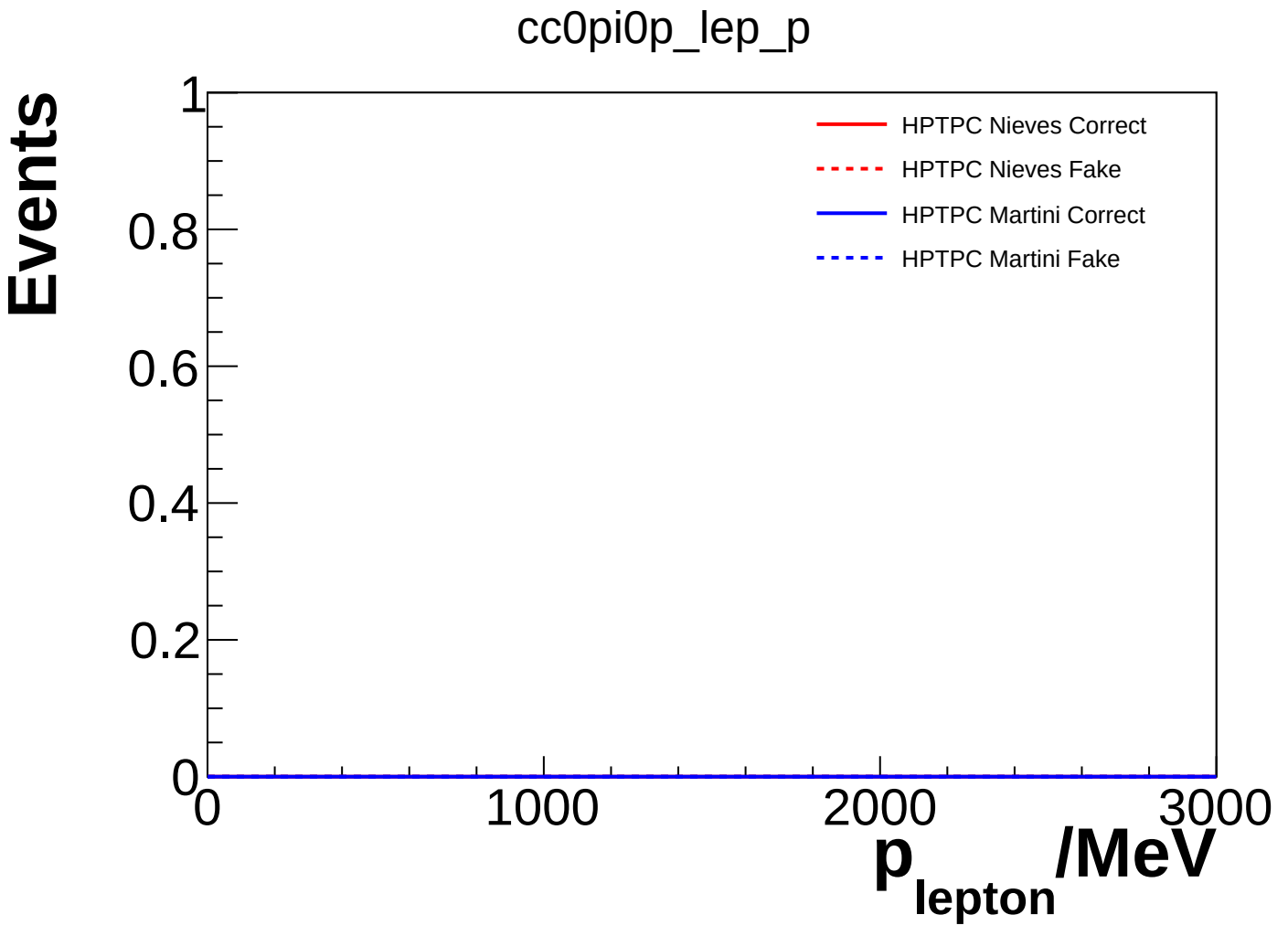


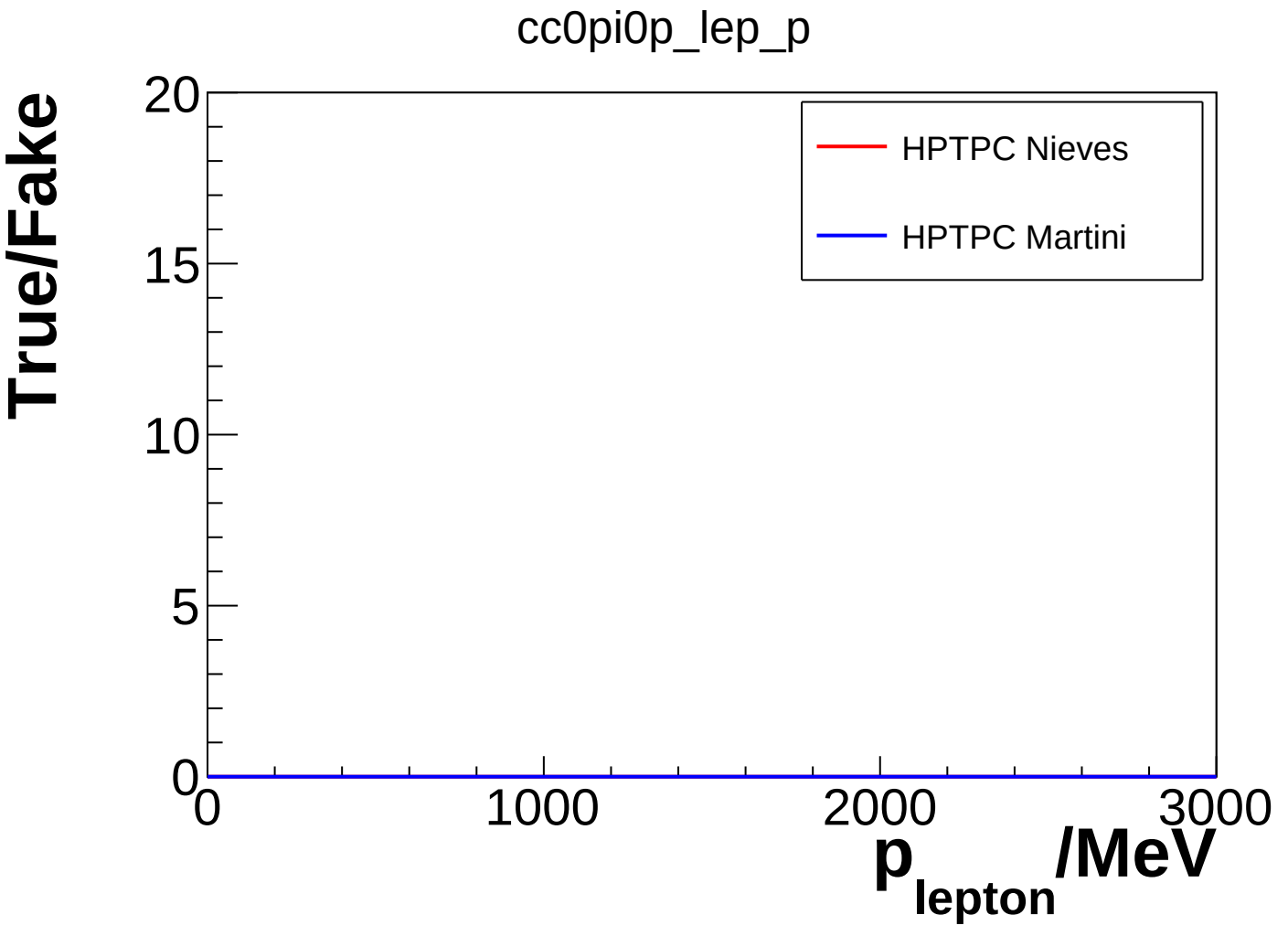
cc0pi0pTrue HPTPC Martini

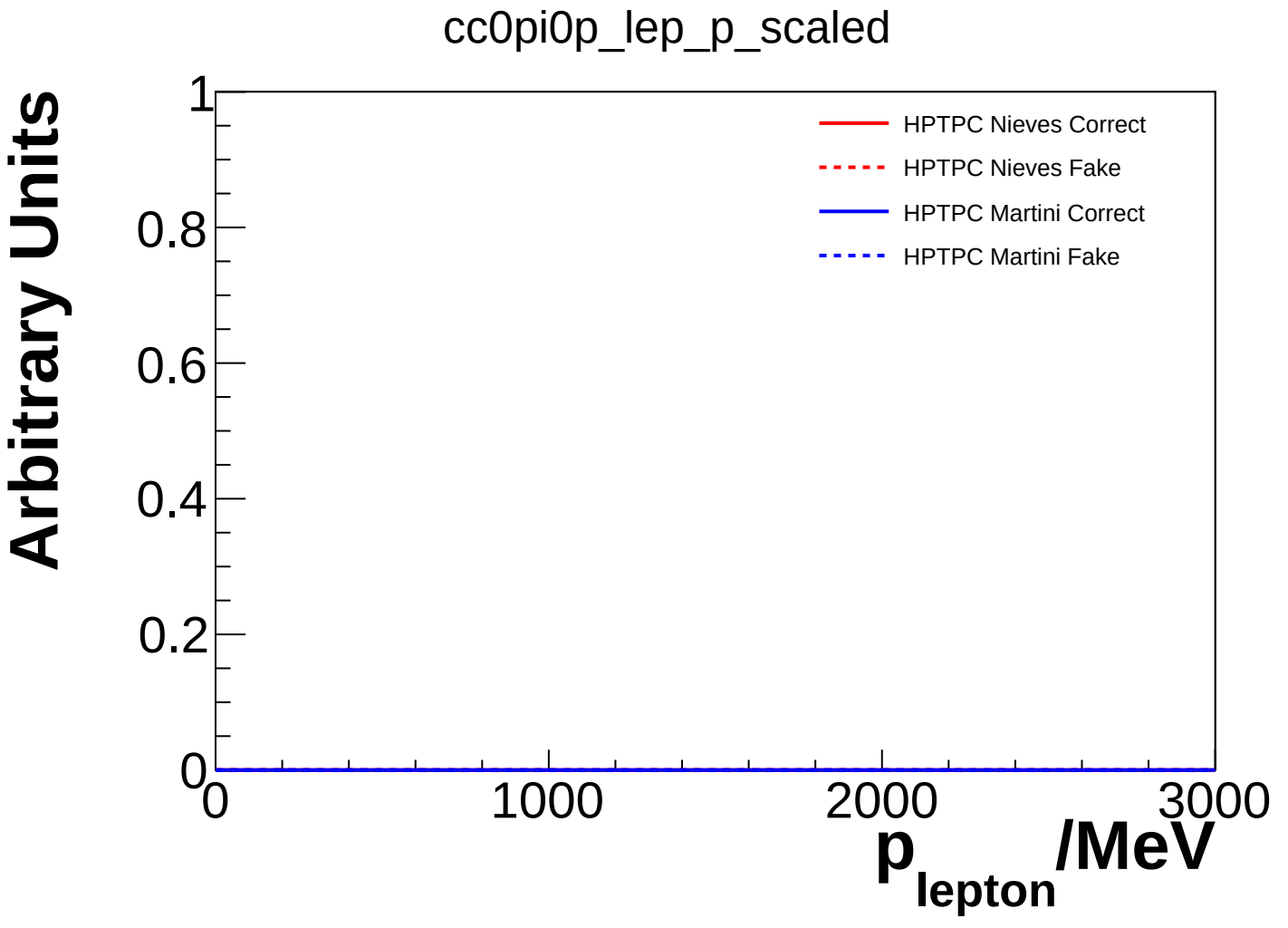


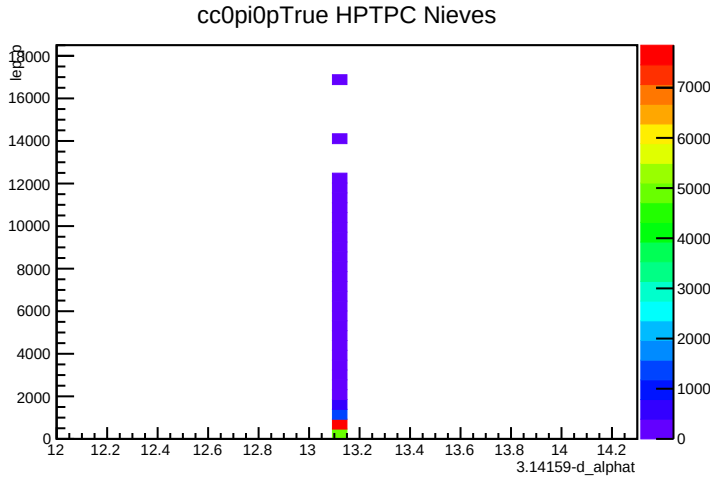
cc0pi0pFake HPTPC Martini

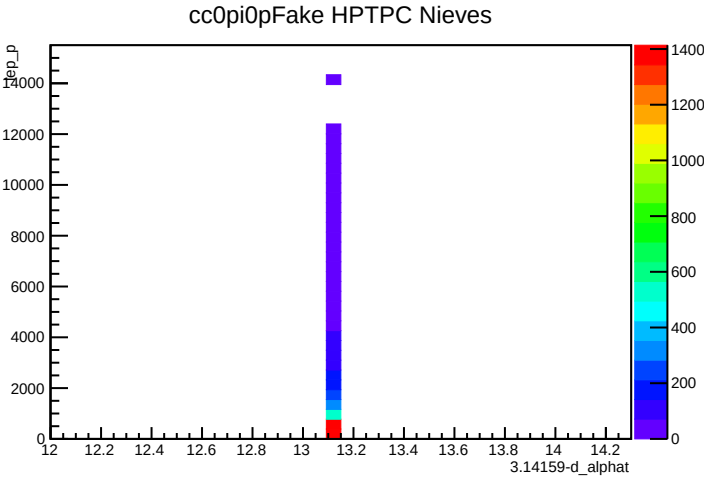


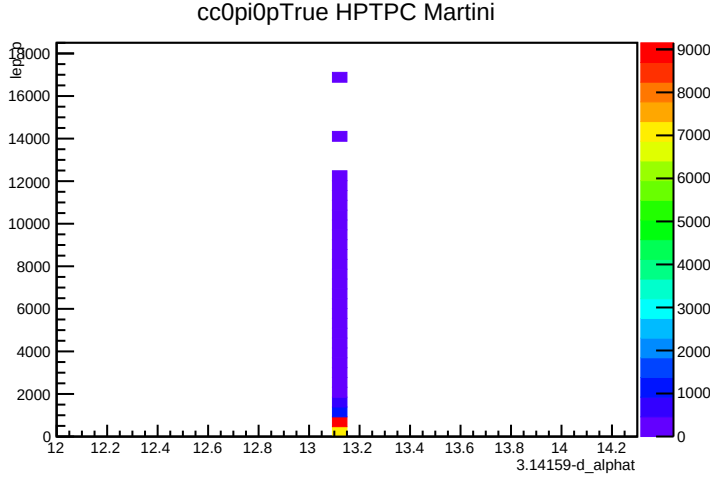

cc0pi0p_lep_p
Events
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
p lepton /MeV
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake

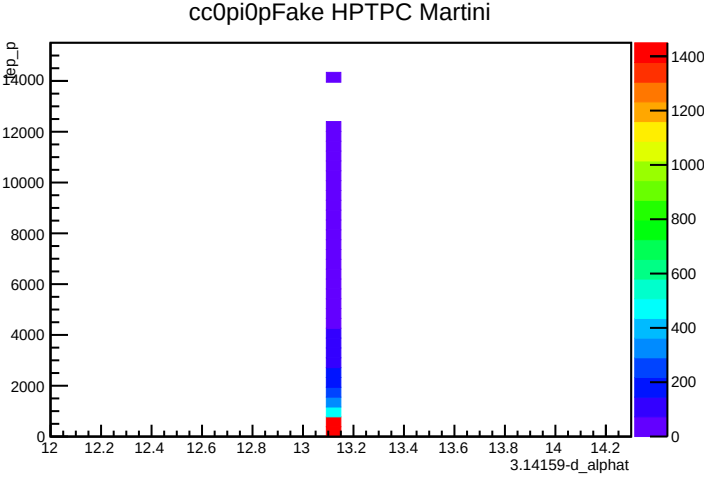

cc0pi0p_lep_p
True/Fake
20
15
10
5
0
0
1000
2000
3000
p lepton /MeV
HPTPC Nieves
HPTPC Martini


cc0pi0p_lep_p_scaled
Arbitrary Units
1
0.8
0.6
0.4
0.2
0
0
1000
2000
3000
p lepton /MeV
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake


cc0pi0pTrue HPTPC Nieves
lep_p
3.14159-d_alphat


cc0pi0pFake HPTPC Nieves
lep_p
3.14159-d_alphat


cc0pi0pTrue HPTPC Martini
lep_p
3.14159-d_alphat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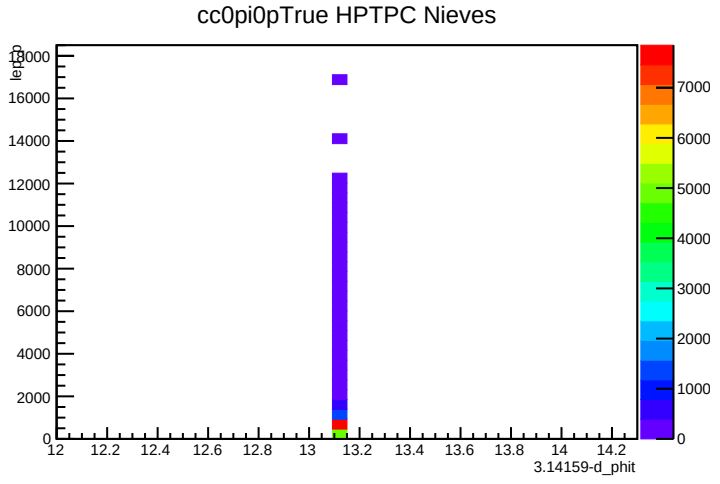
lep_p
3.14159-d_alphat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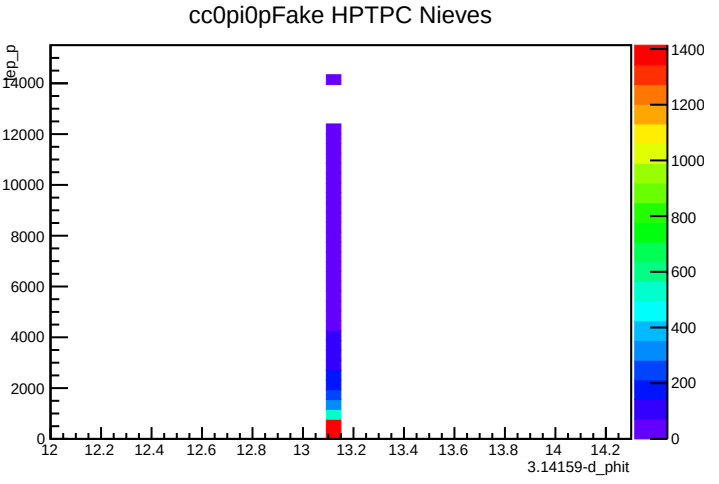
lep_p
3.14159-d_phit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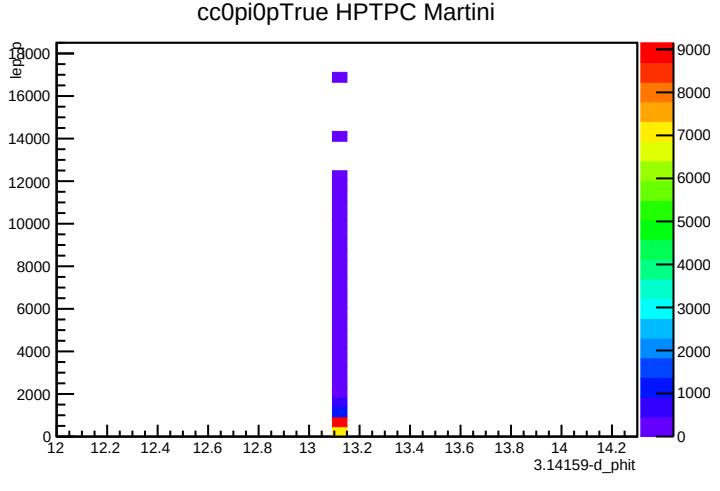
lep_p
3.14159-d_phit


cc0pi0pTrue HPTPC Martini
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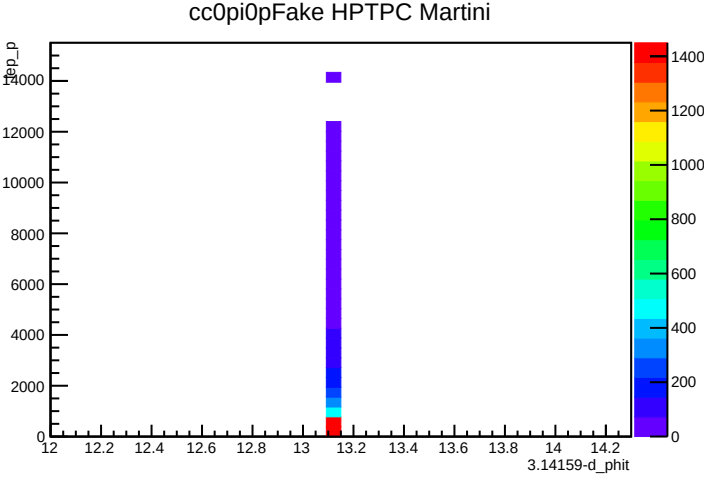
3.14159-d_phit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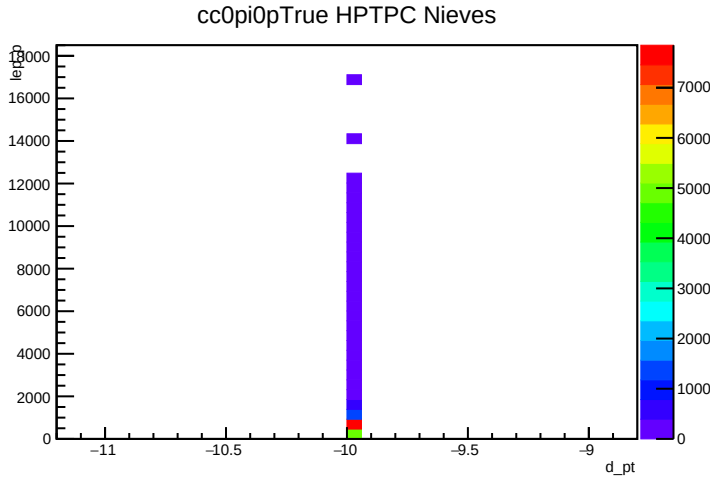
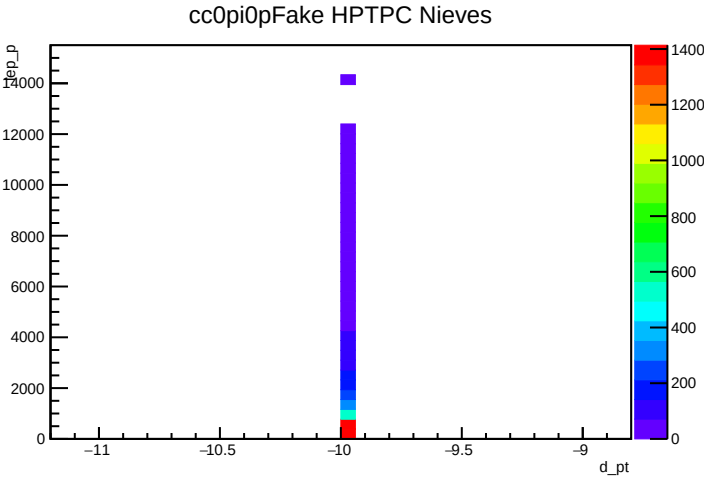

cc0pi0pTrue HPTPC Nieves
lep_p
d_pt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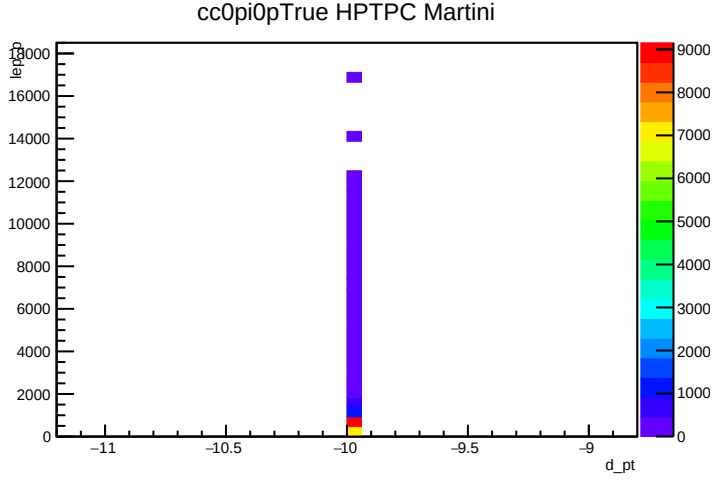
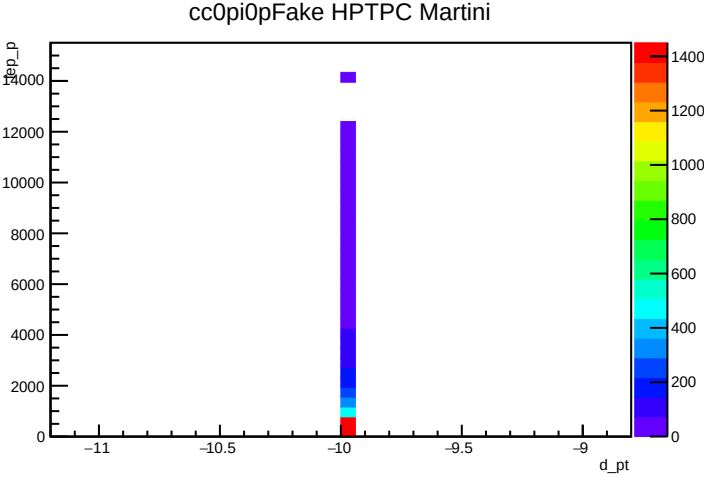
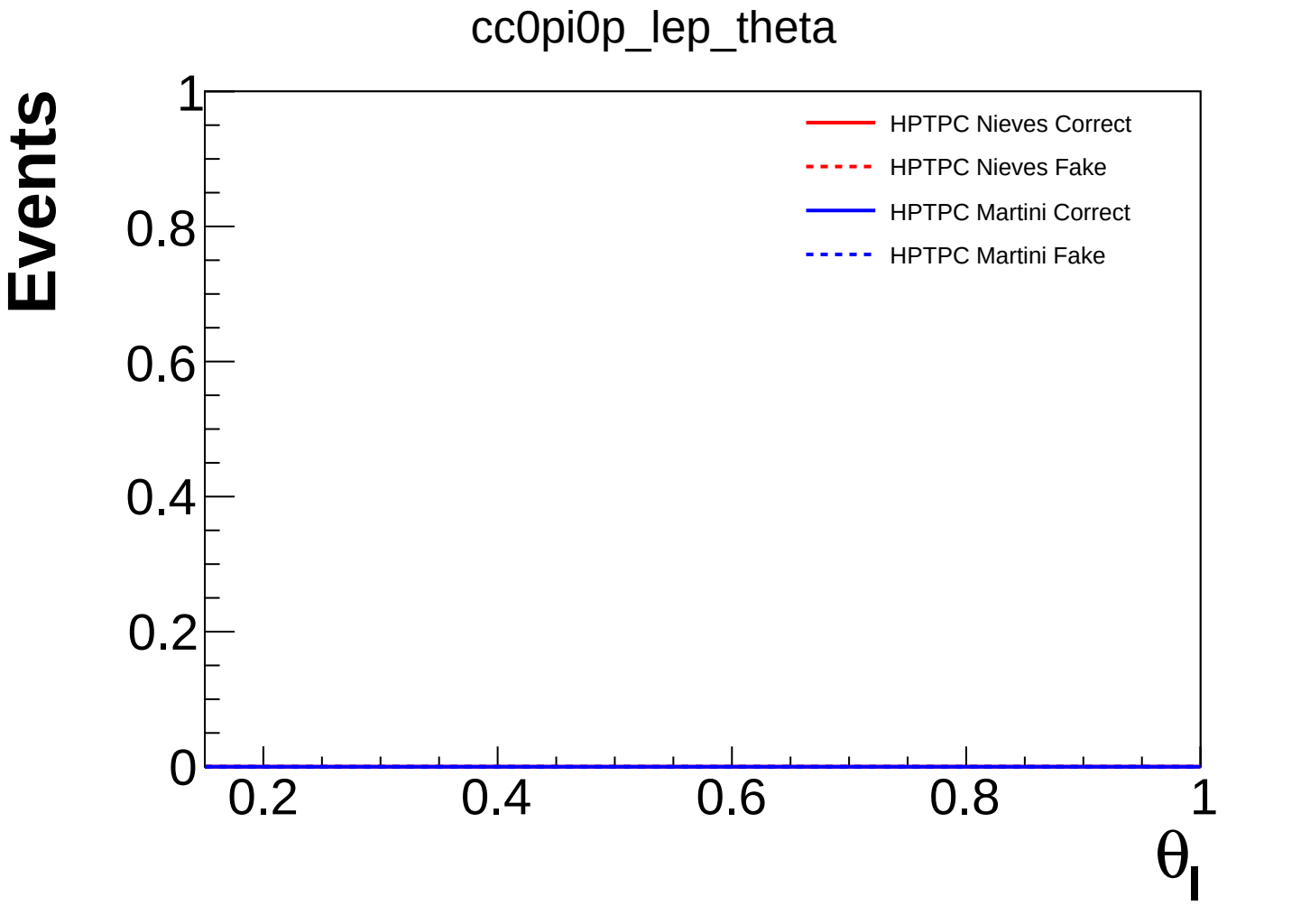
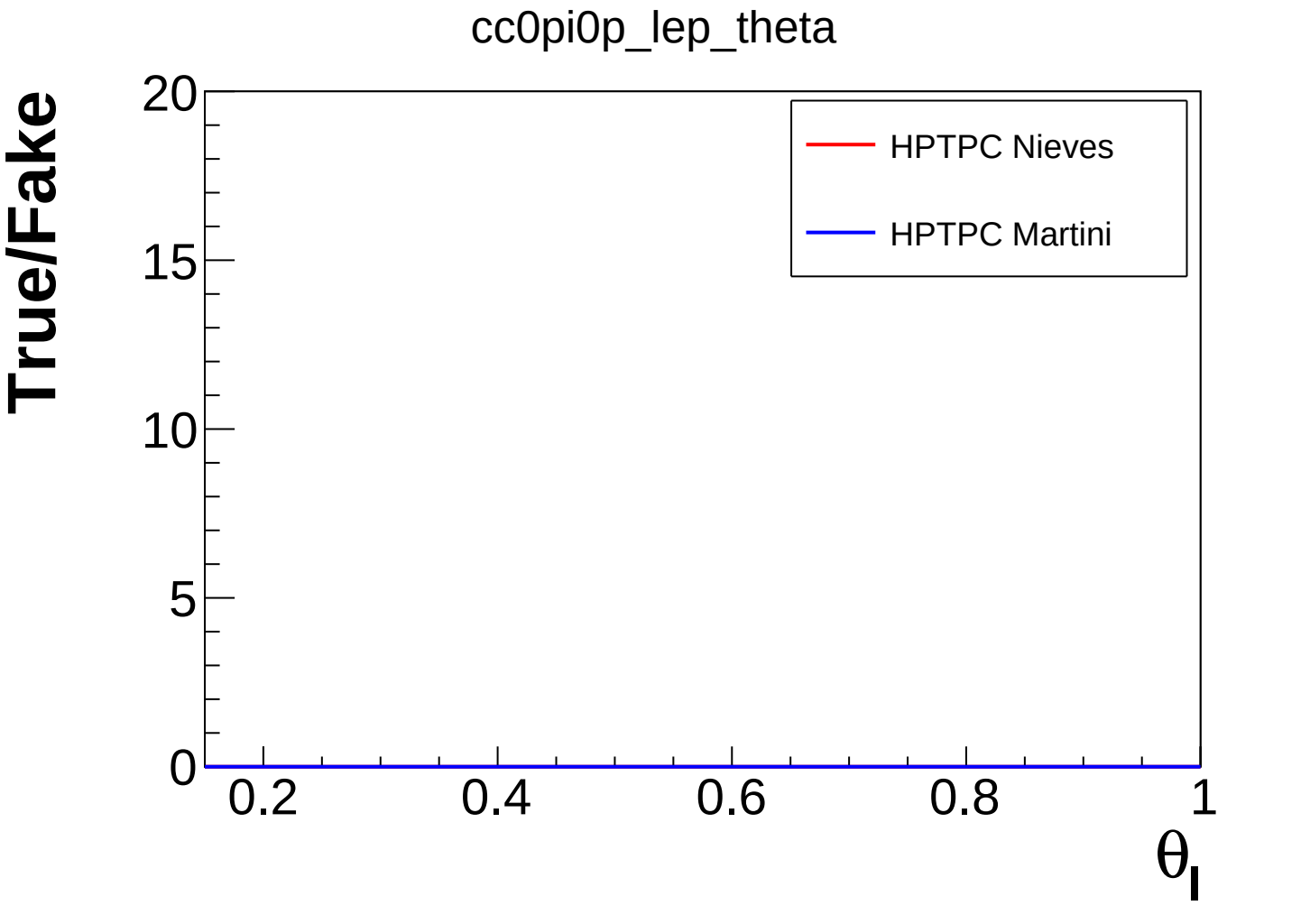
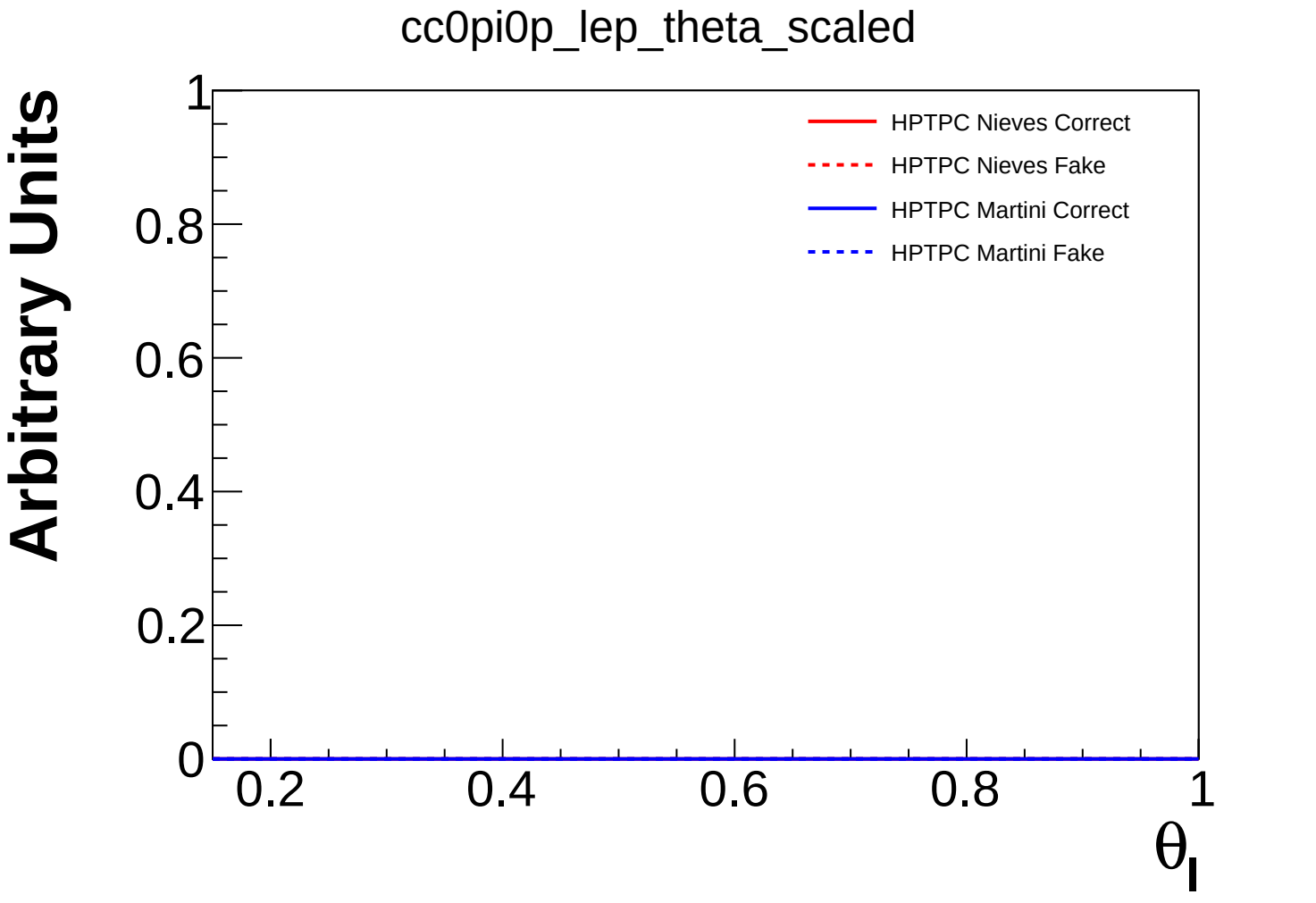
lep_p
d_pt


cc0pi0pTrue HPTPC Martini
lep_p
d_pt


cc0pi0pFake HPTPC Martini
lep_p
d_pt


cc0pi0p_lep_theta
Events
1
0.8
0.6
0.4
0.2
0
0.2
0.4
0.6
0.8
1
θl
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake


cc0pi0p_lep_theta
True/Fake
20
15
10
5
0
0.2
0.4
0.6
0.8
1
θl
HPTPC Nieves
HPTPC Martini


cc0pi0p_lep_theta_scaled
Arbitrary Units
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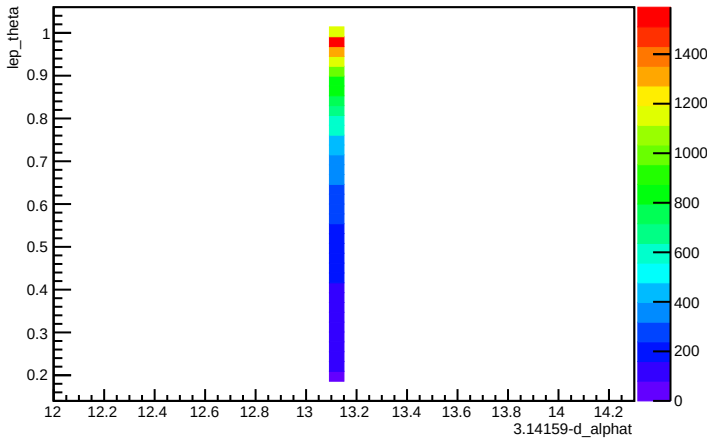
0.8
0.6
0.4
0.2
0
0.2
0.4
0.6
0.8
1
θ_l
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake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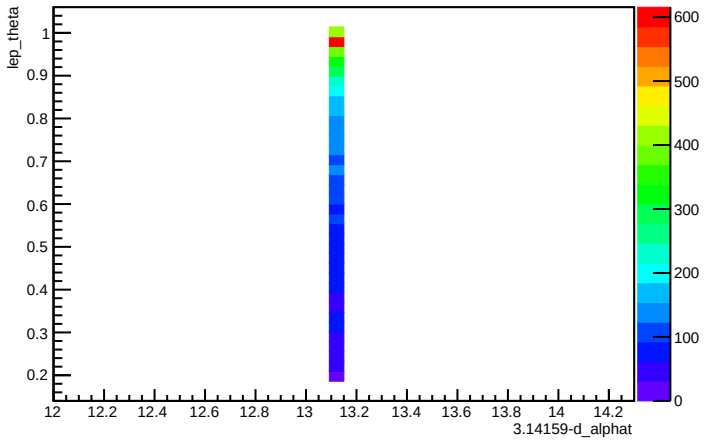
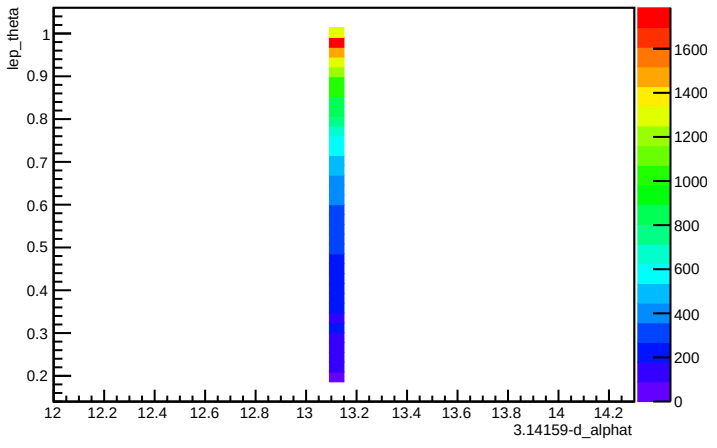
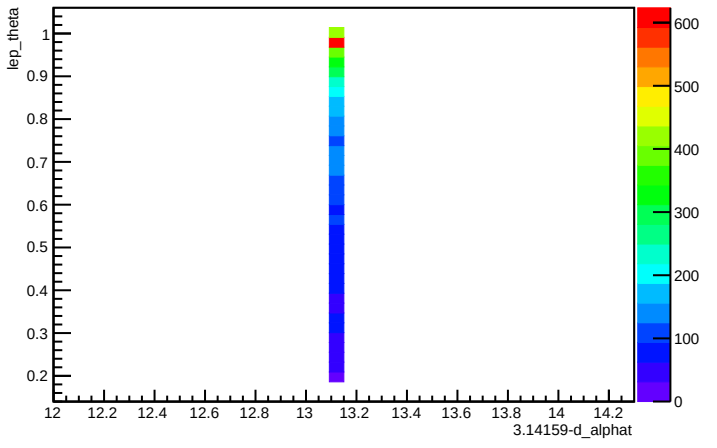
lep_theta
3.14159-d_alphat


cc0pi0pFake HPTPC Nieves
lep_theta
3.14159-d_alphat


cc0pi0pTrue HPTPC Martini
lep_theta
3.14159-d_alphat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lep_theta
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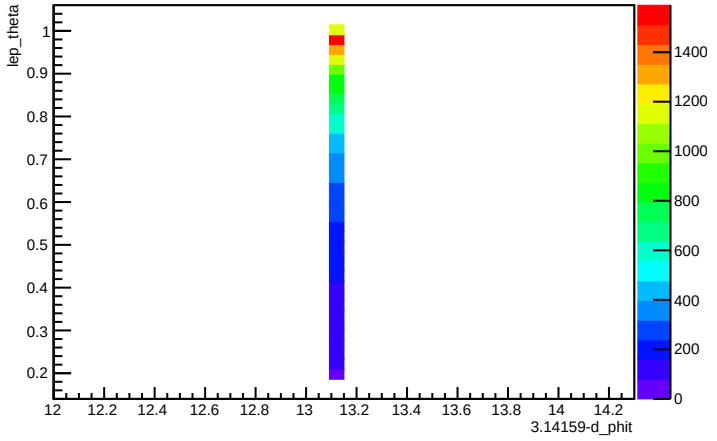
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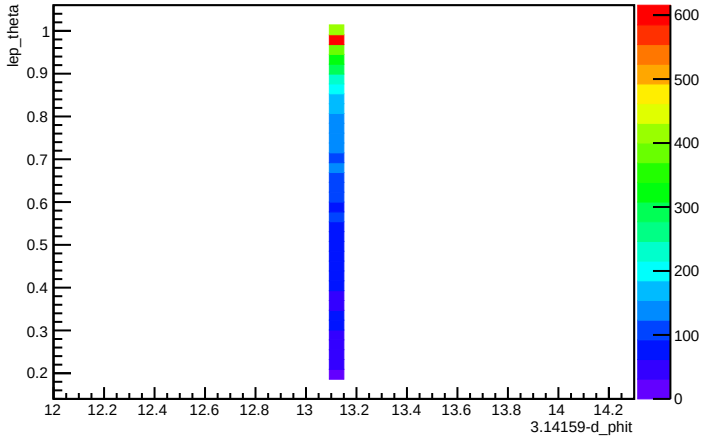
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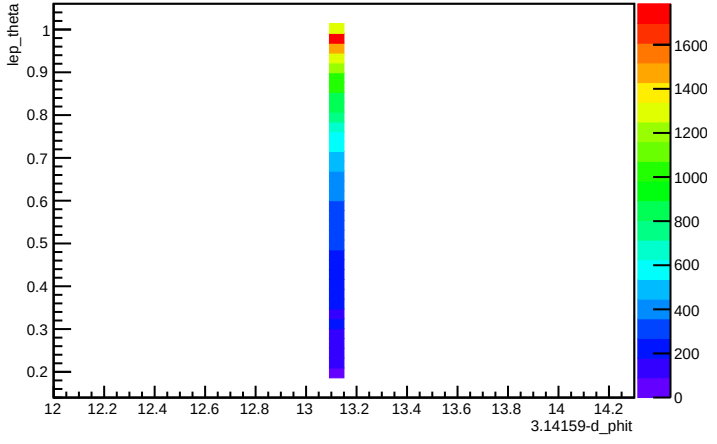
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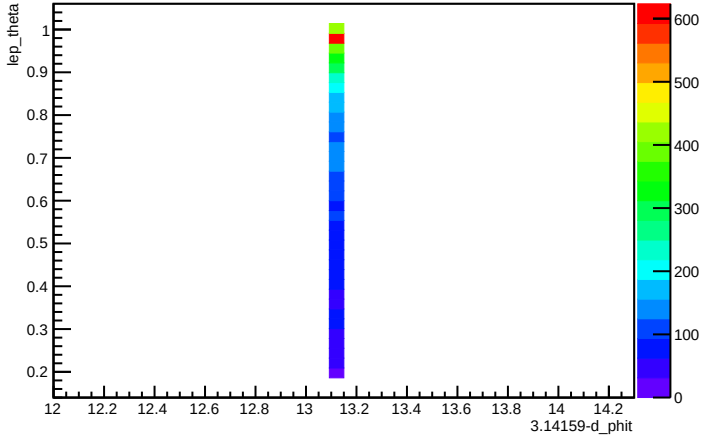
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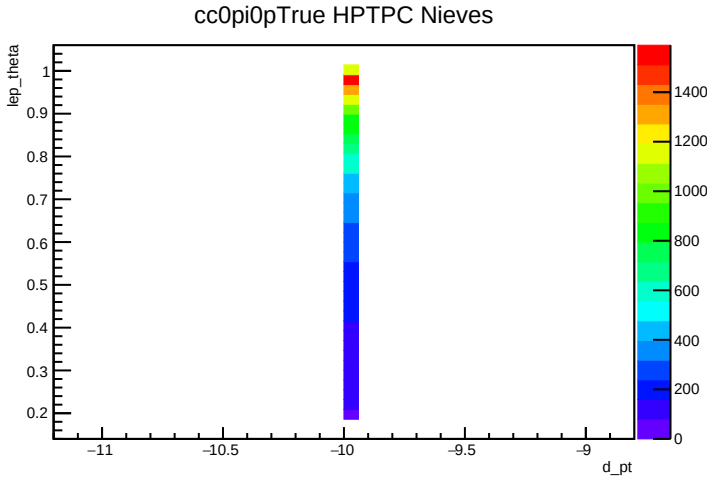
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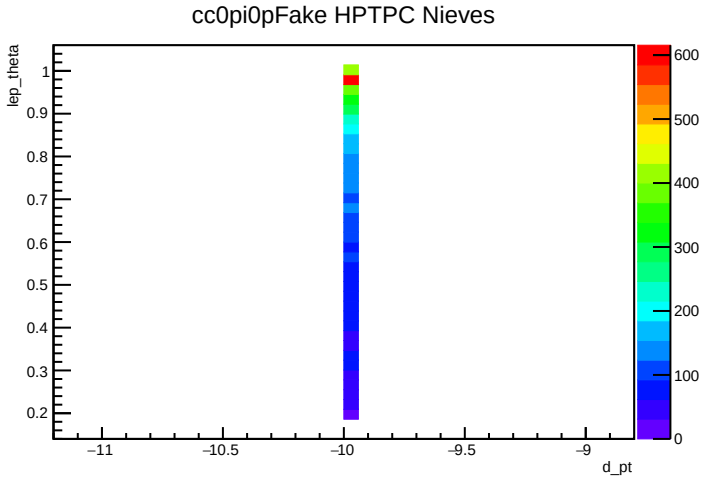
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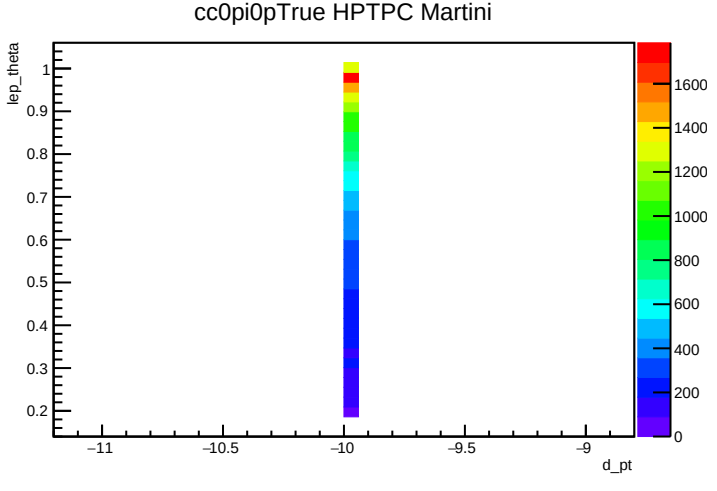
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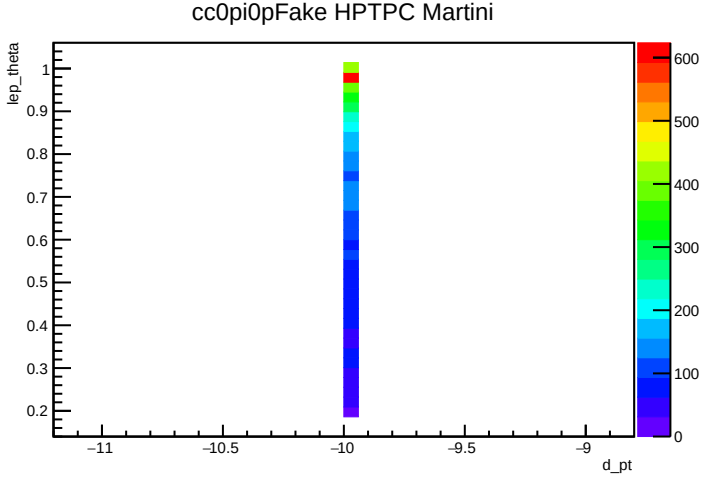
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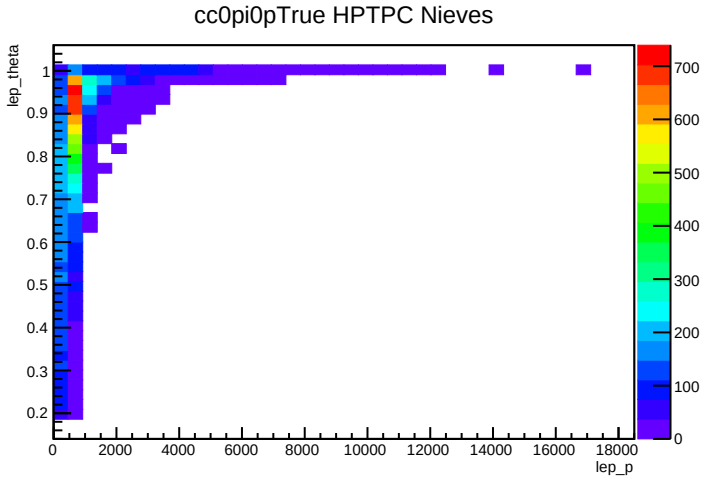
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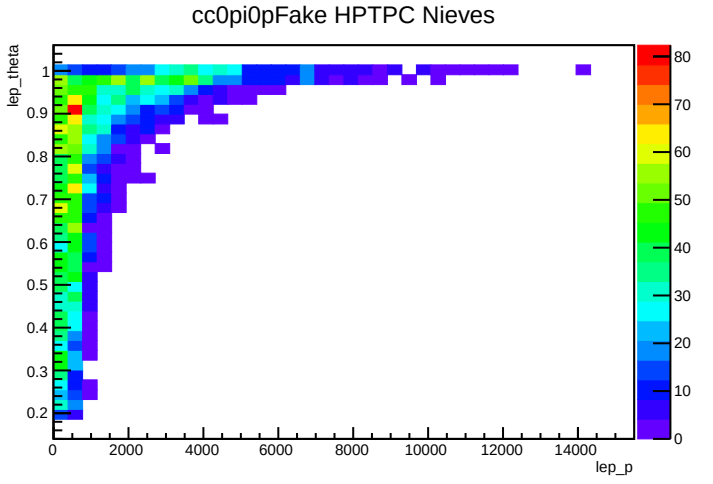
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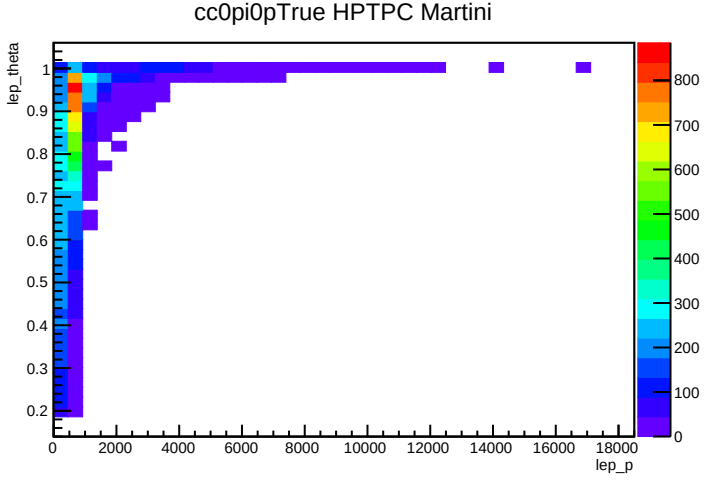
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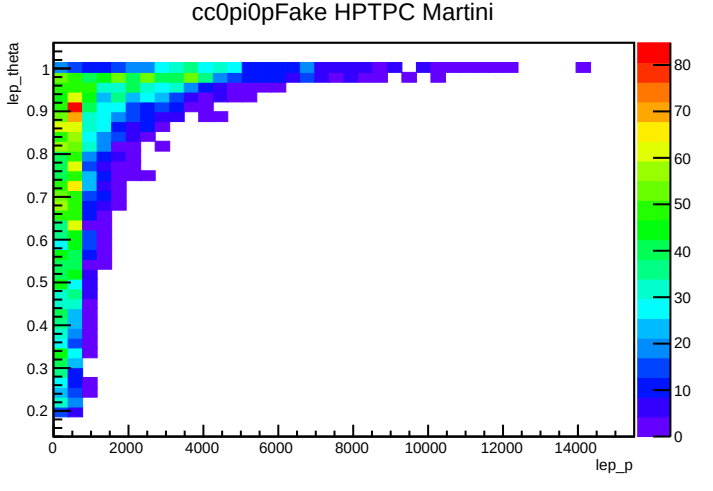
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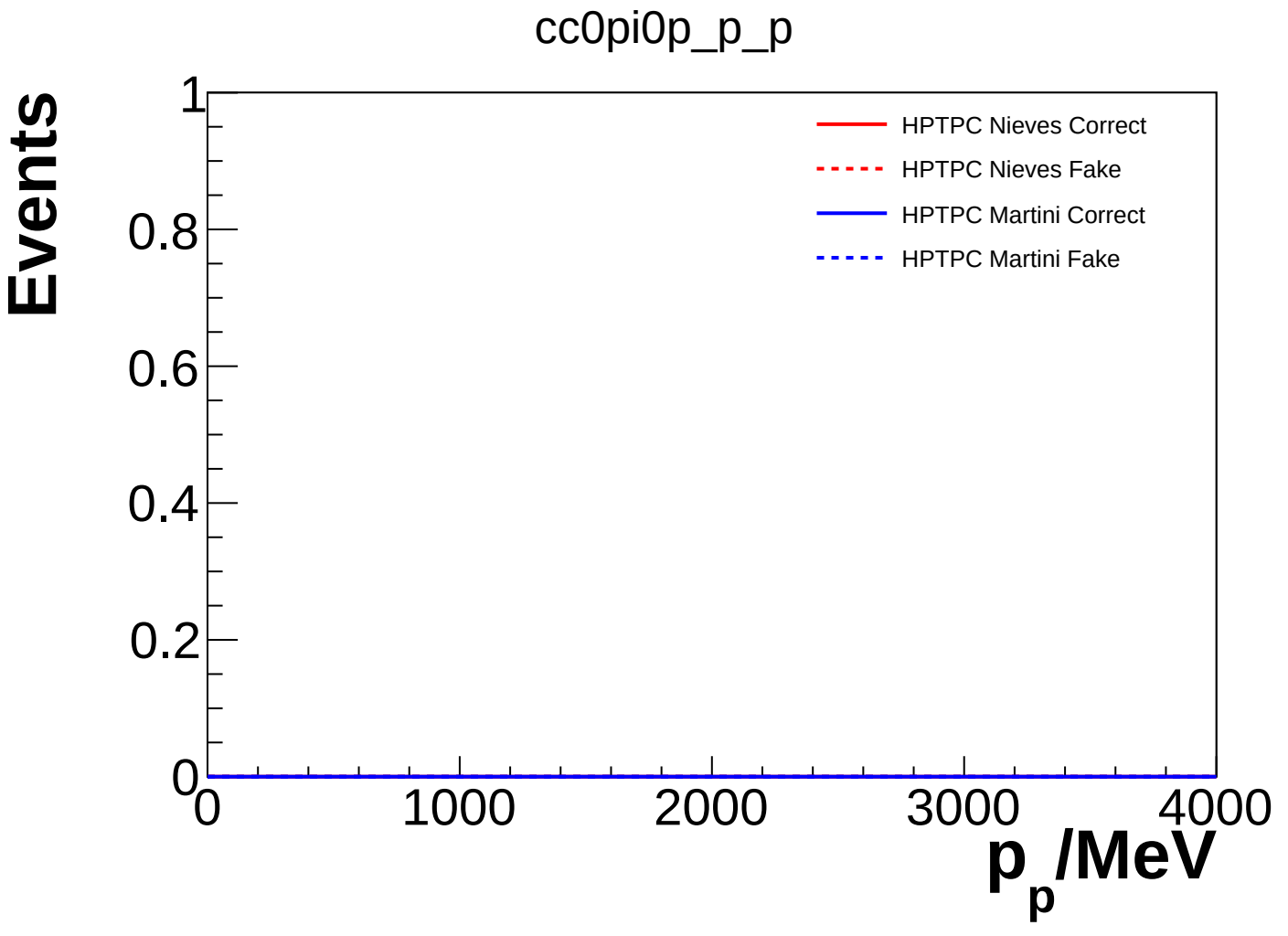
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HPTPC Nieves Fake
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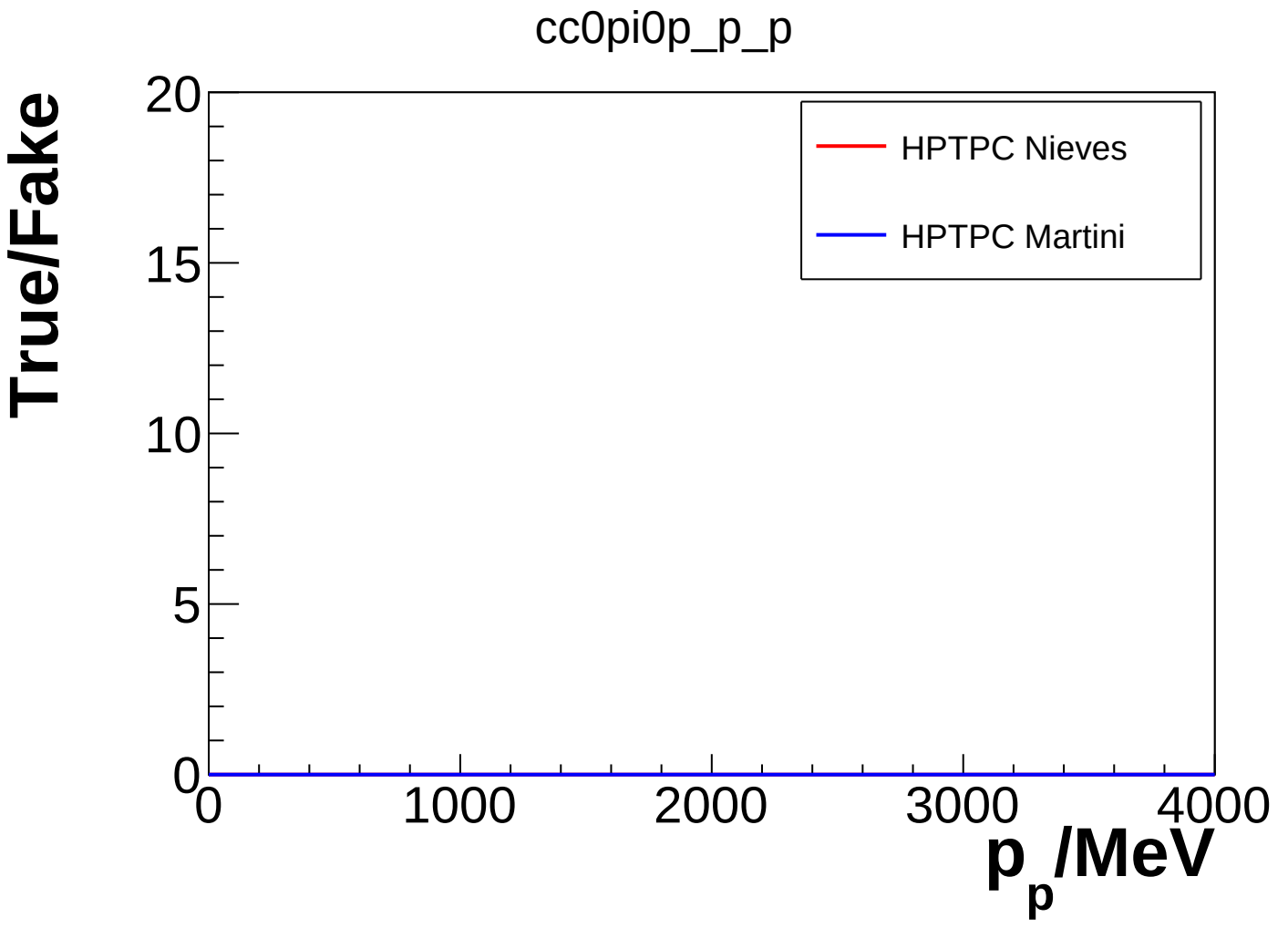
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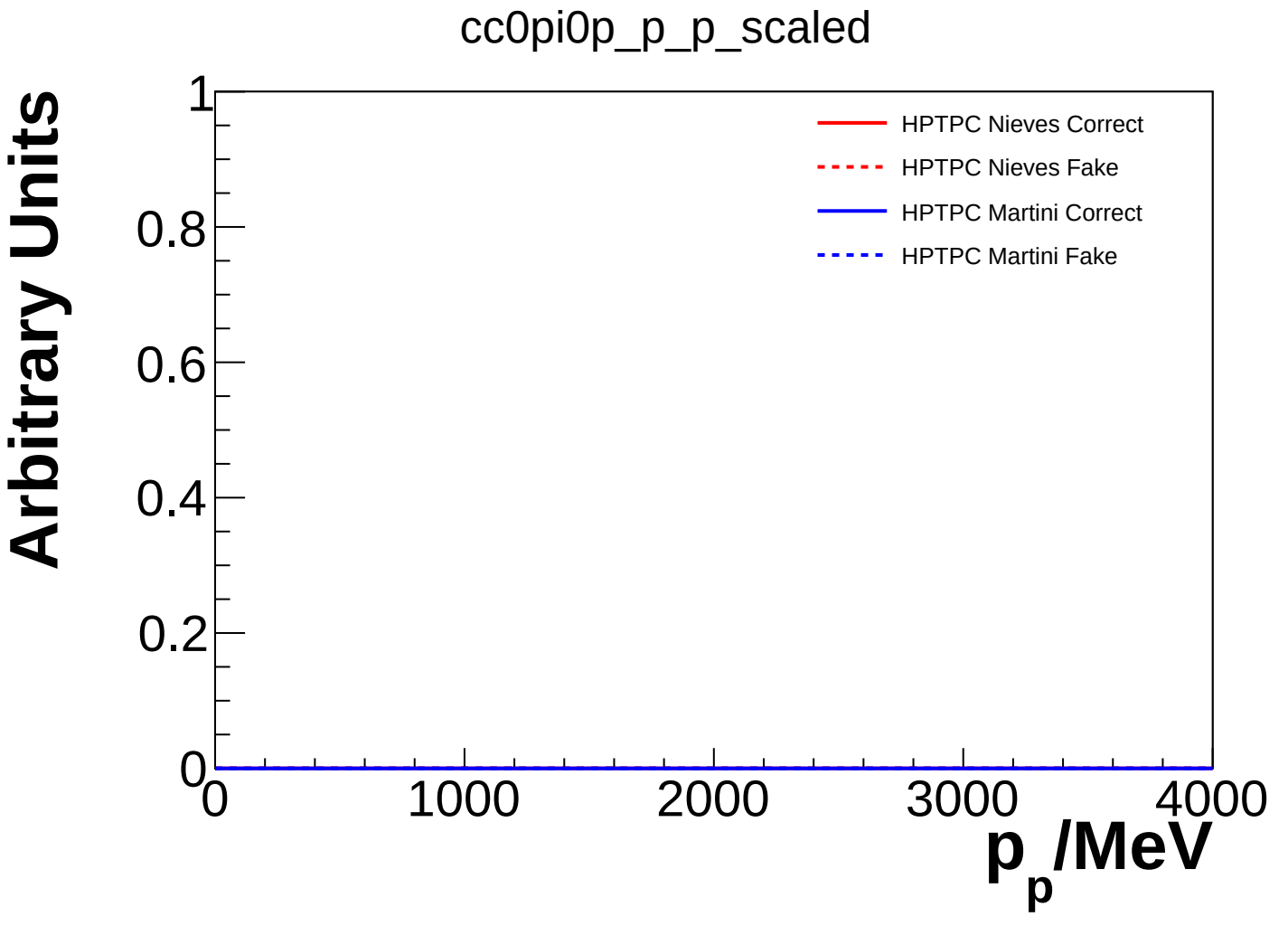
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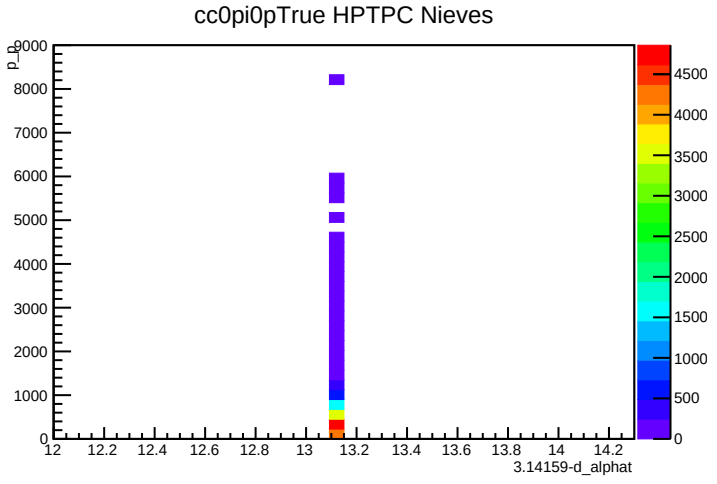
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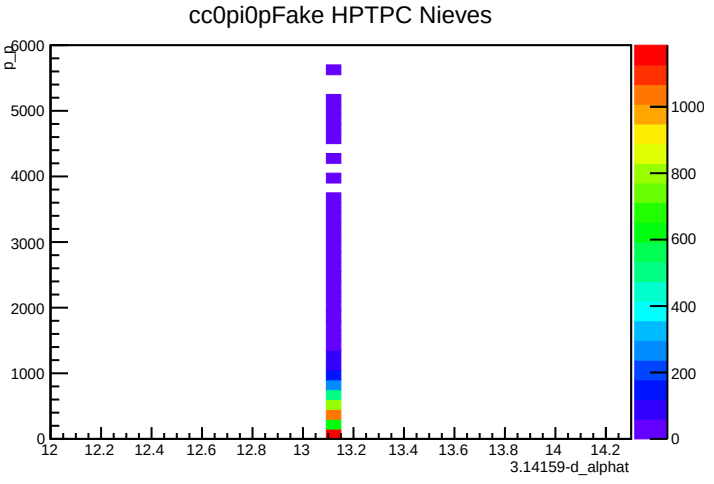
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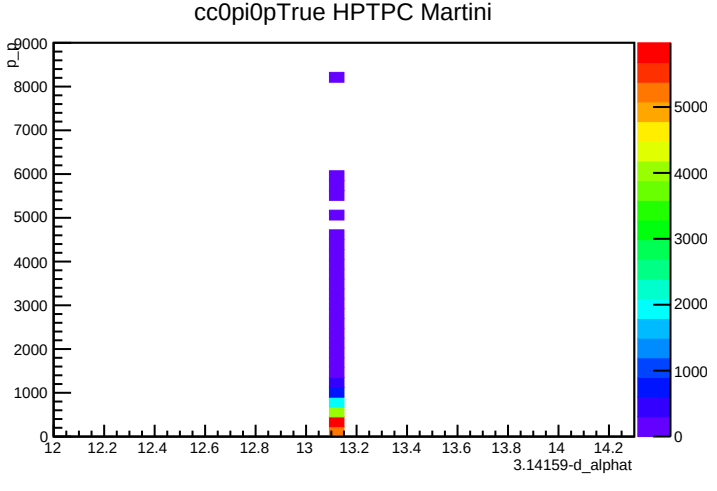
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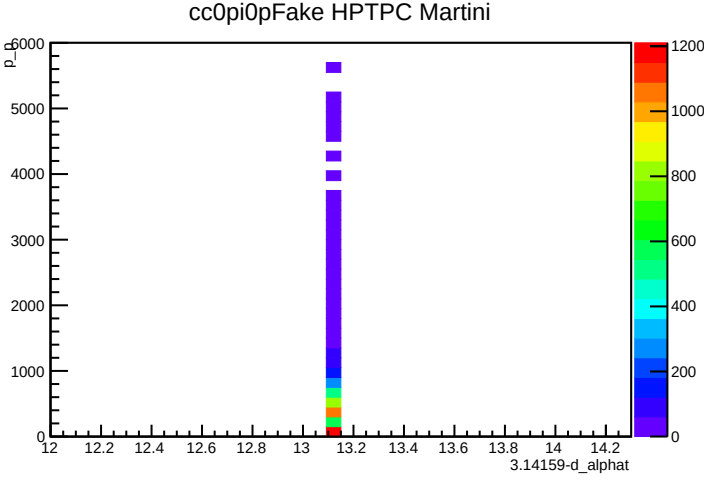
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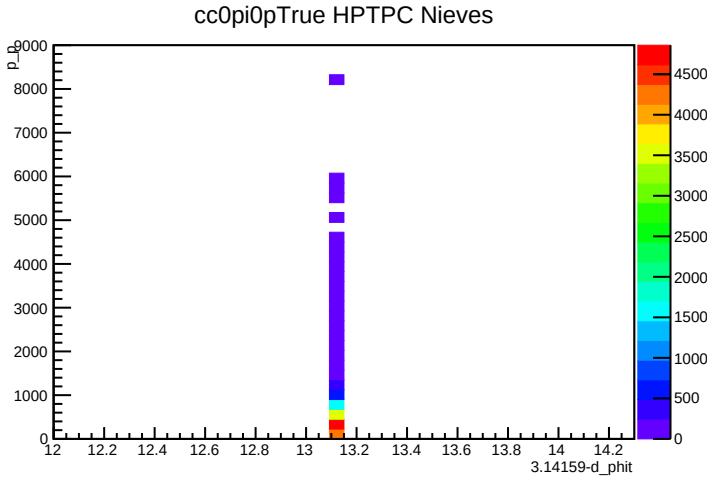
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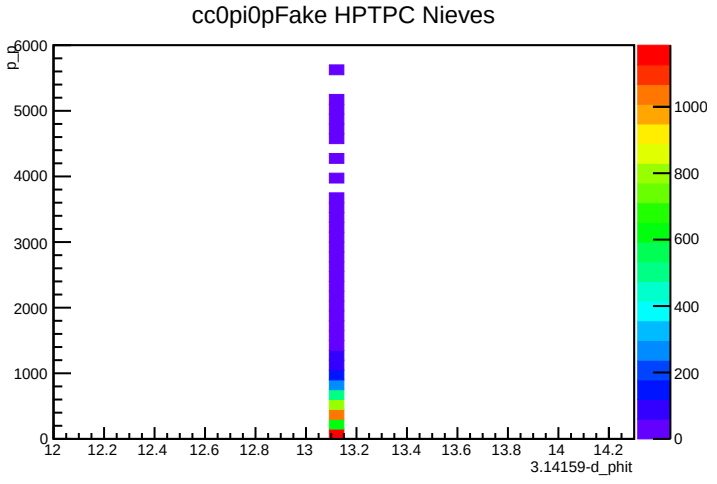
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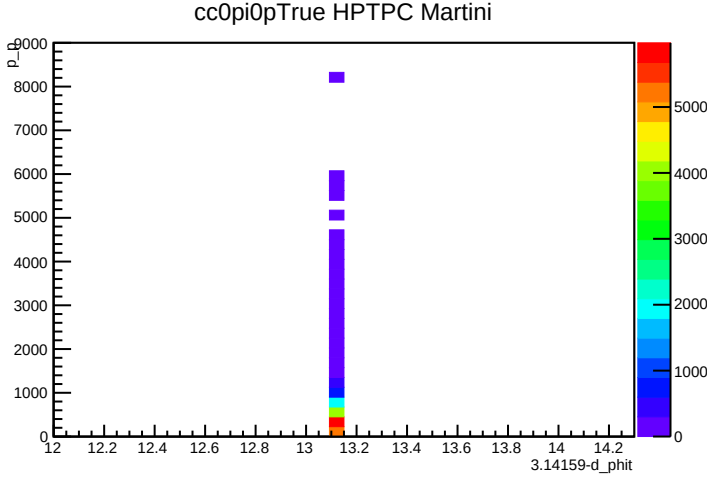
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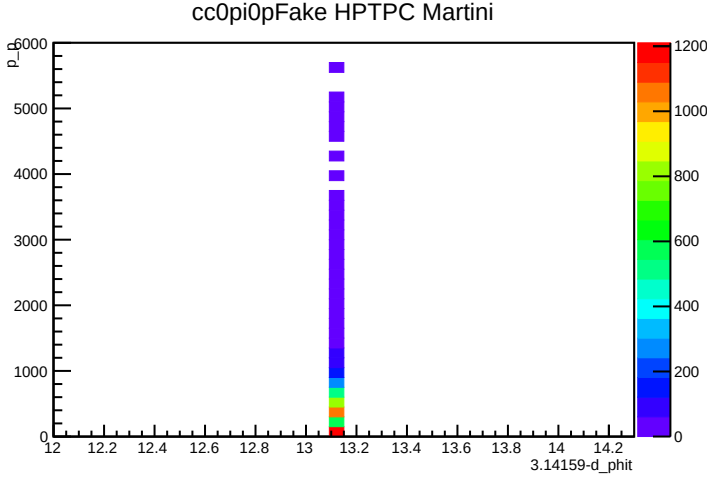
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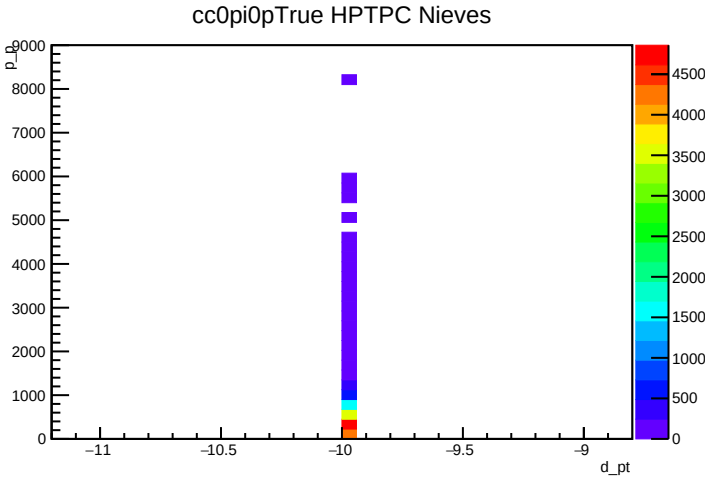
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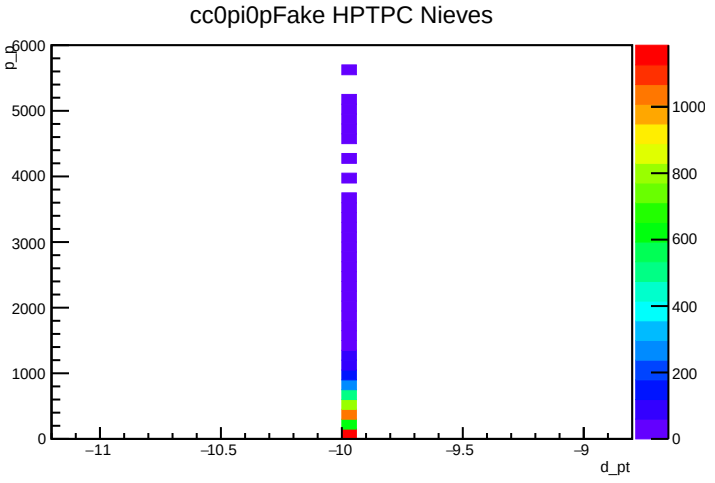
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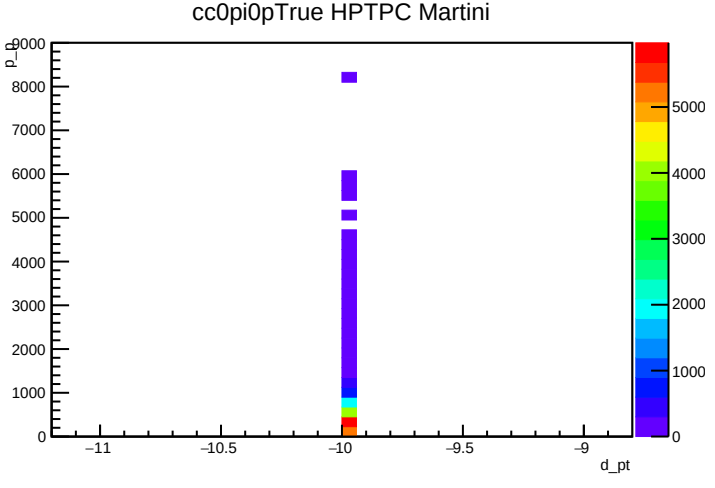
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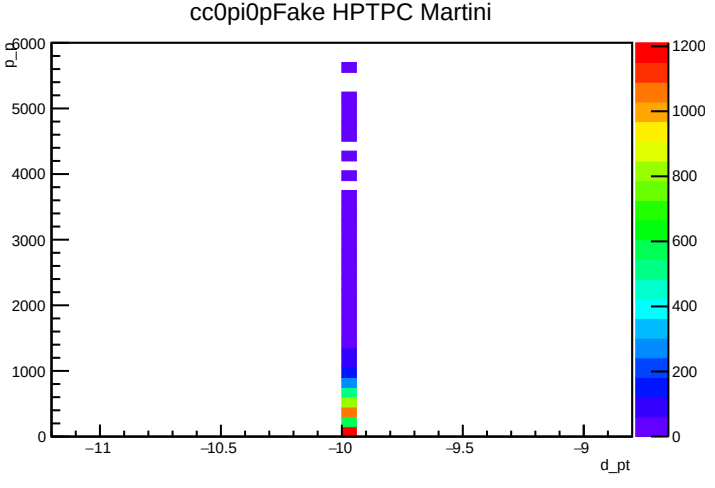
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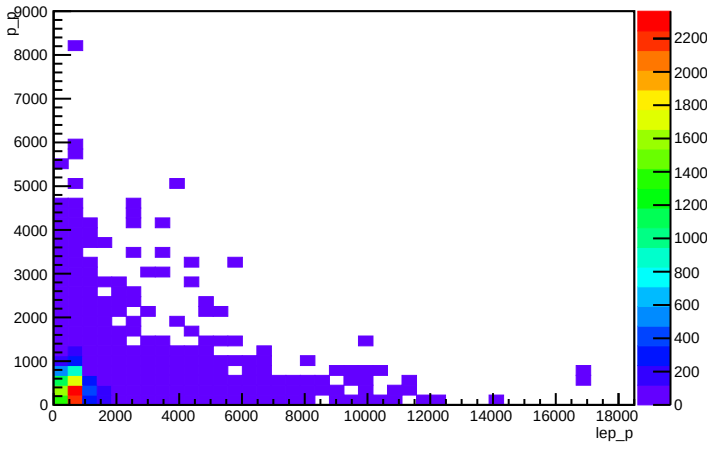
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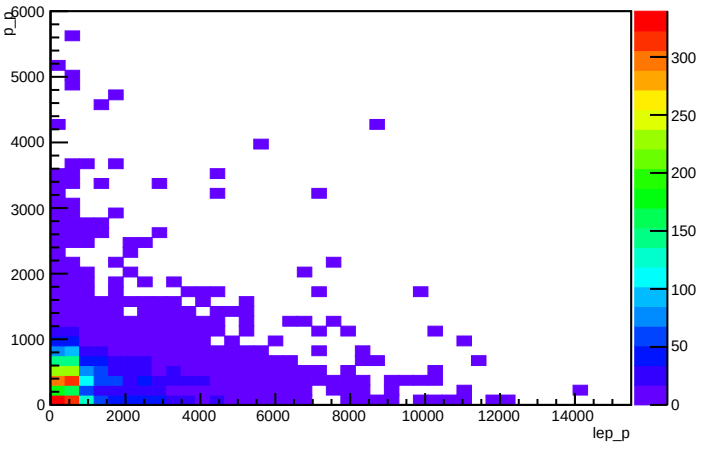
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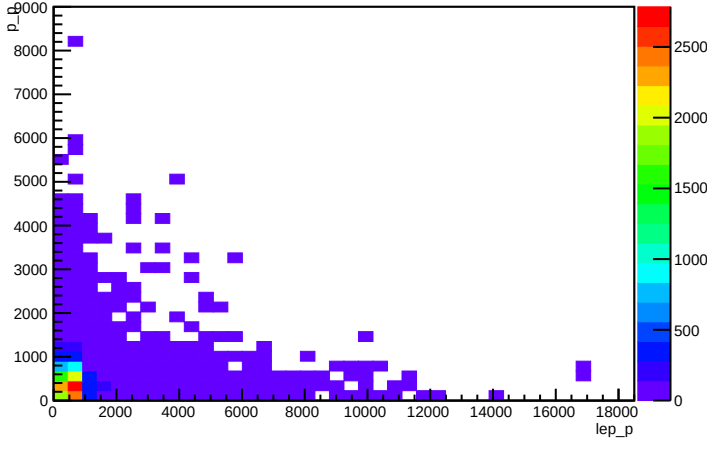
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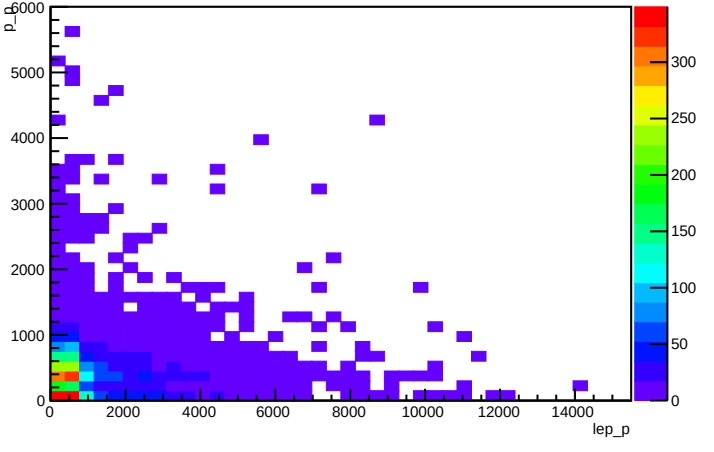
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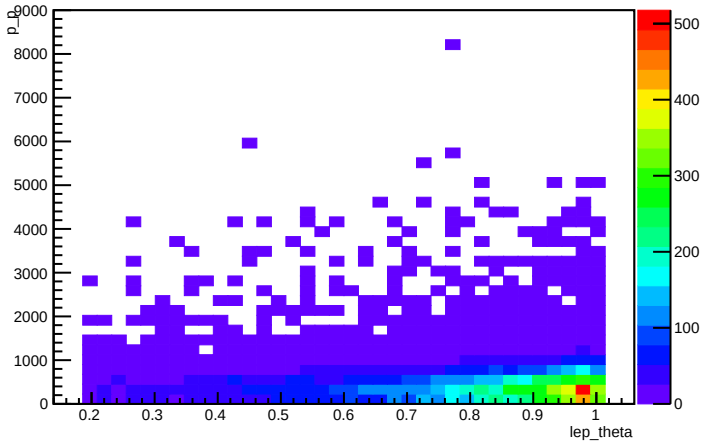
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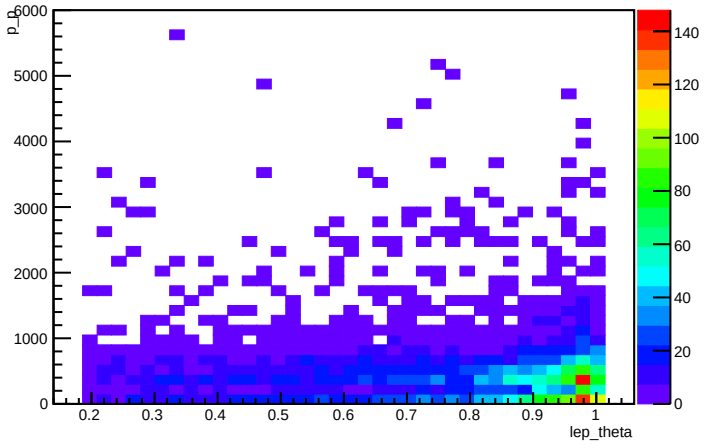
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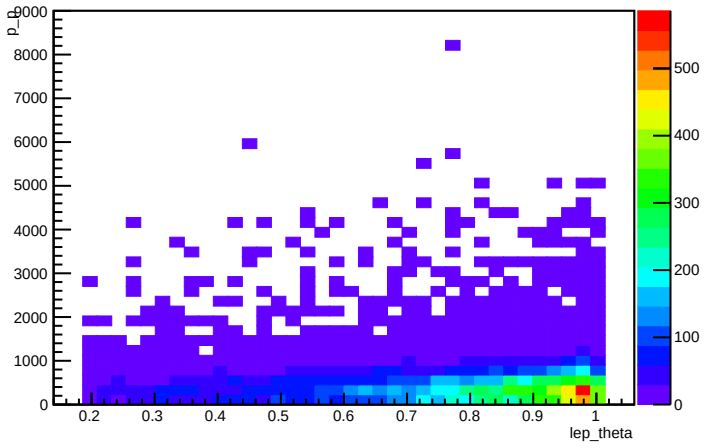
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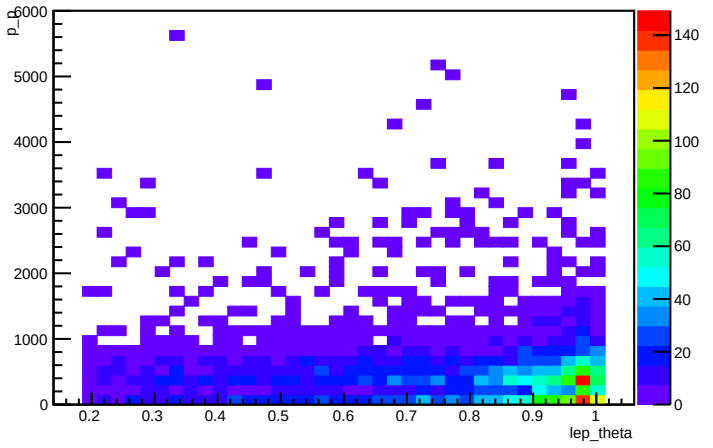
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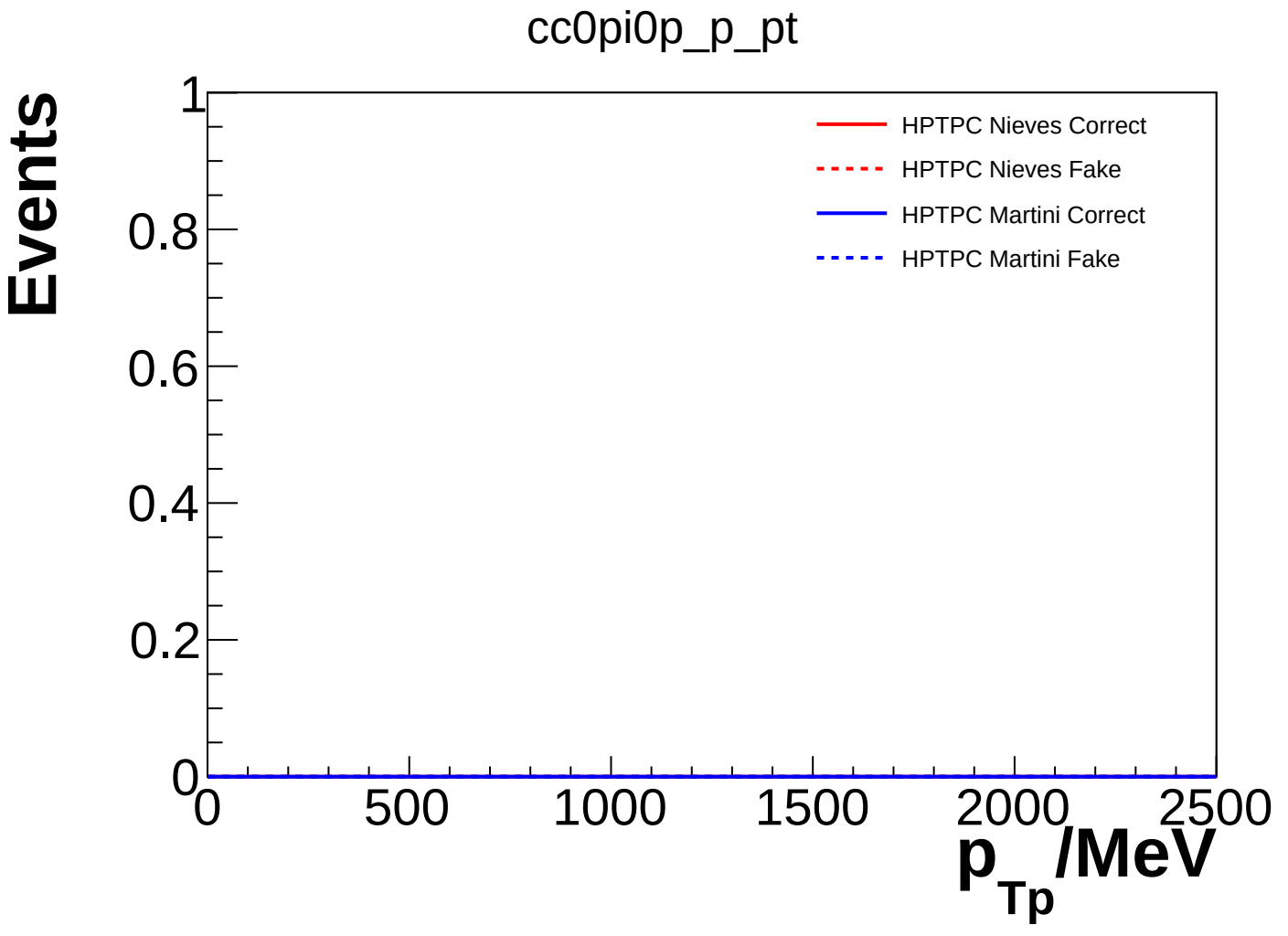
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HPTPC Nieves Fake
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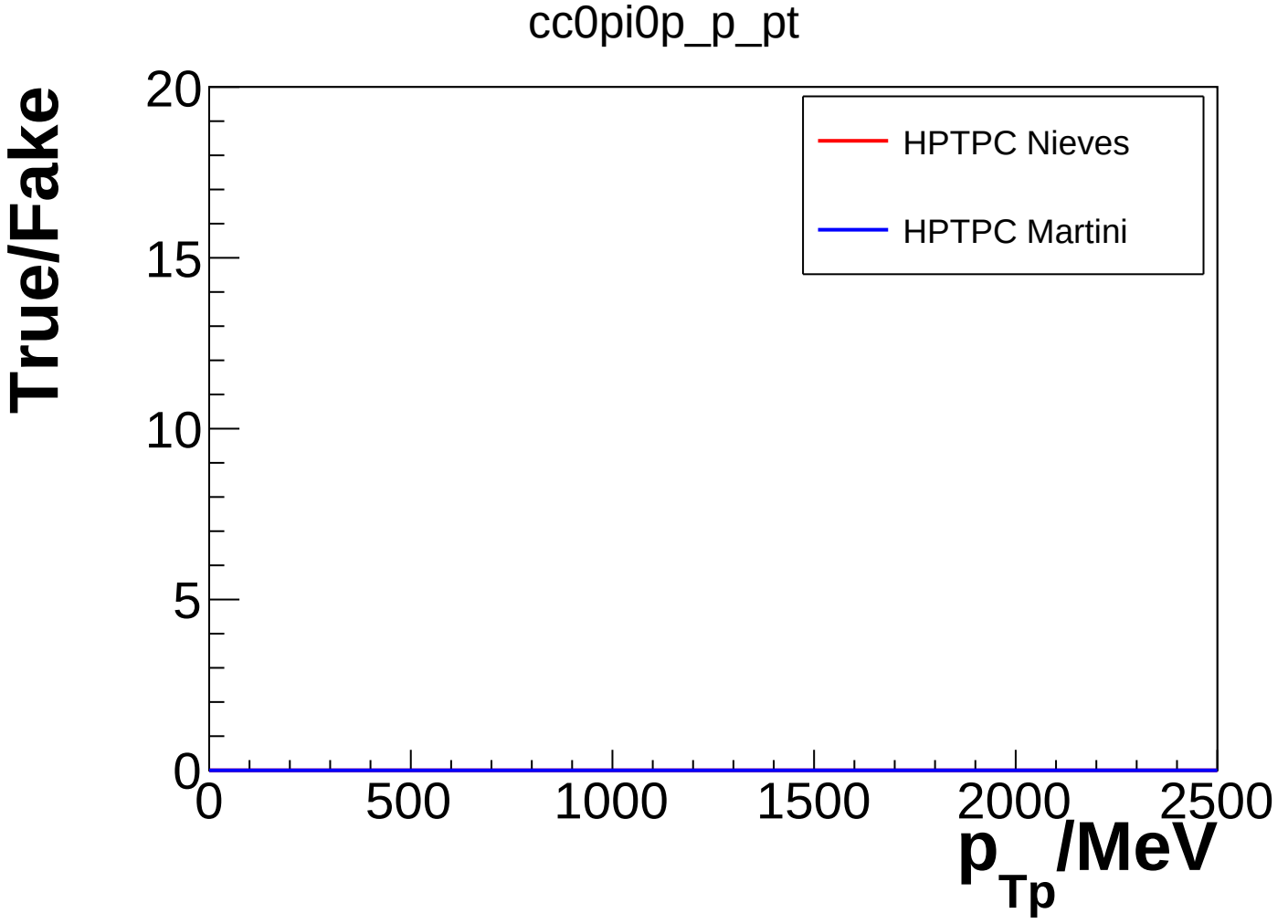
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HPTPC Nieves
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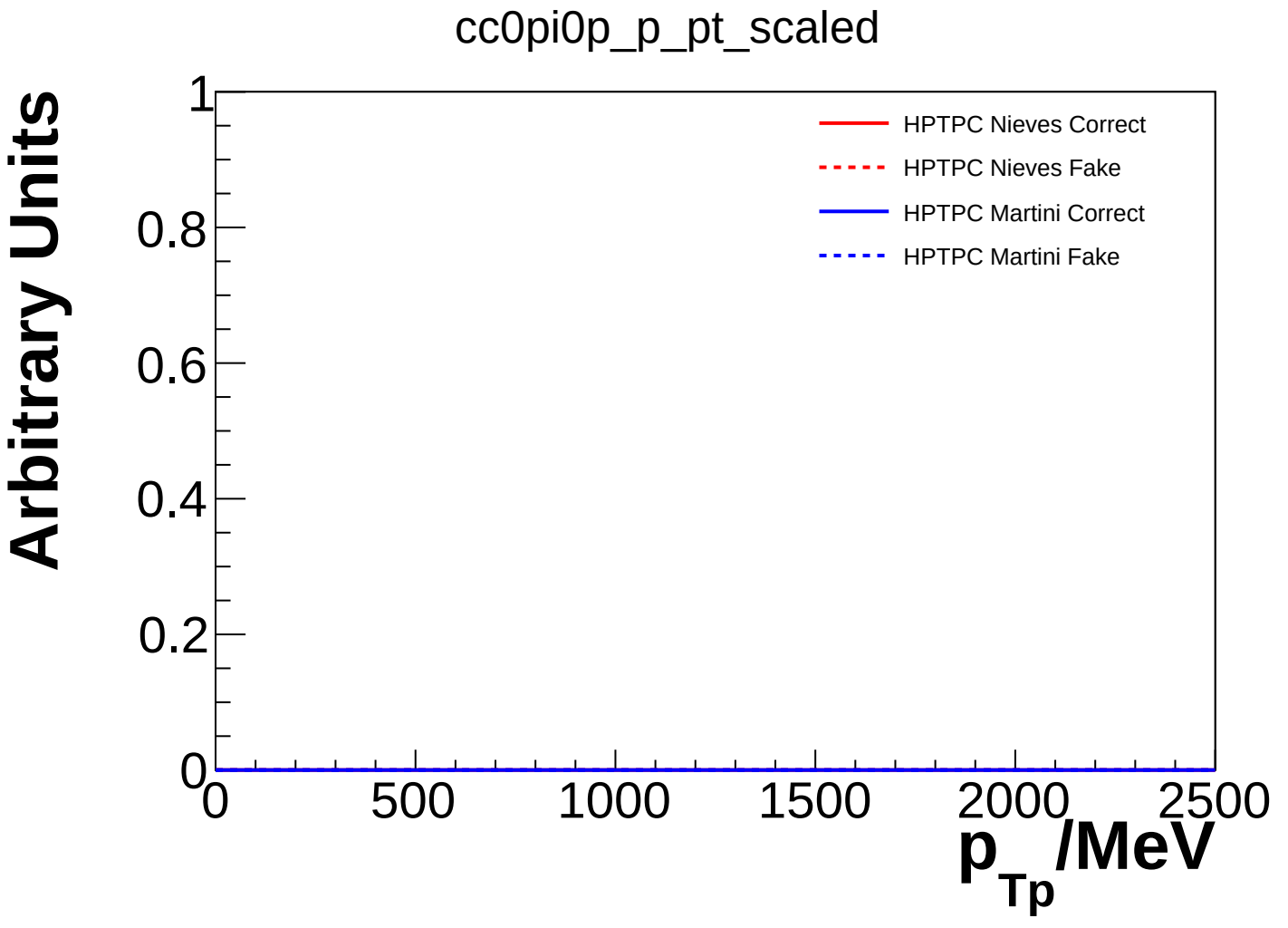
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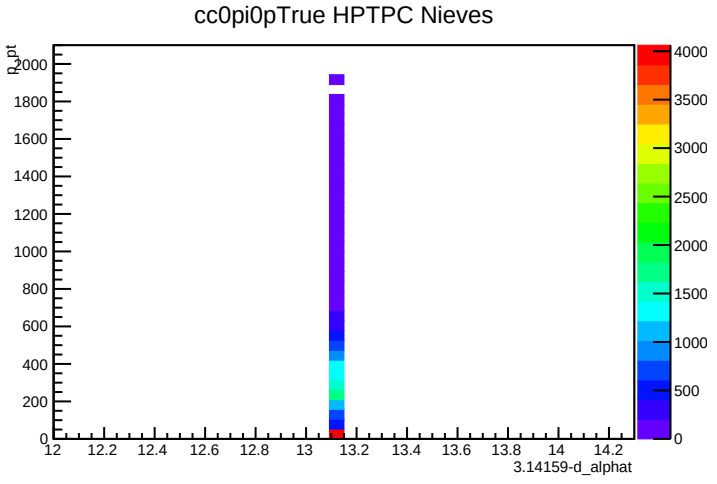
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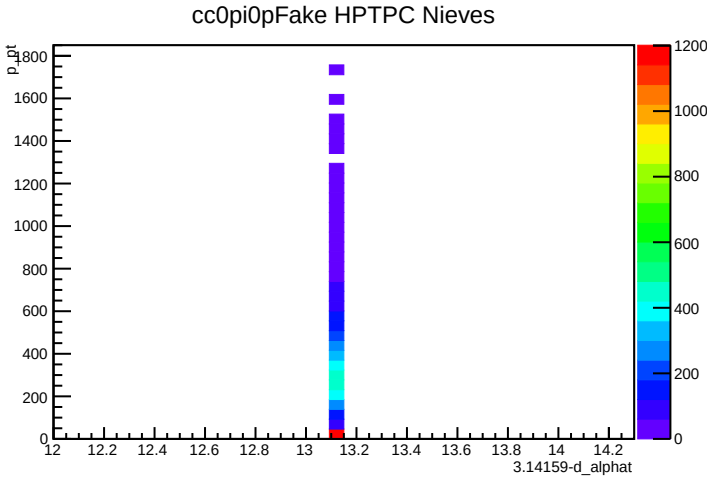
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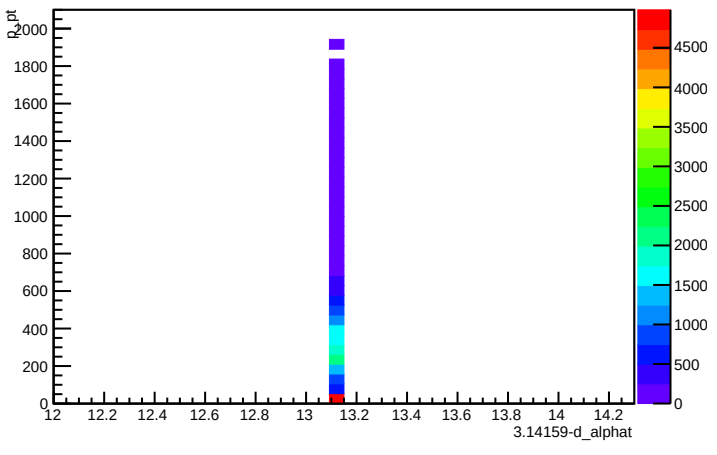
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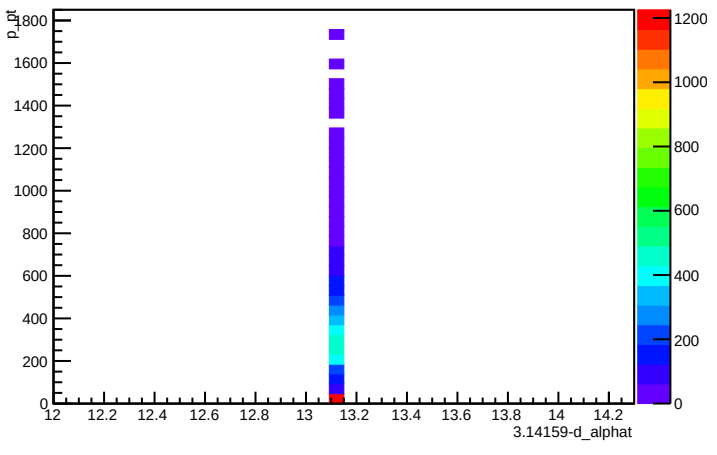
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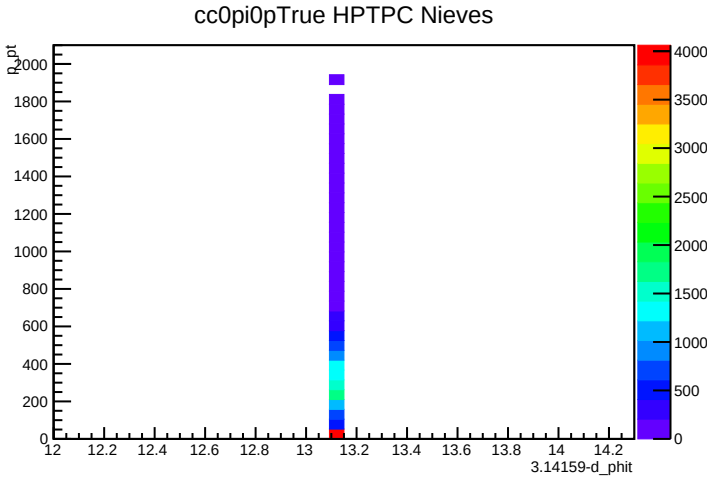
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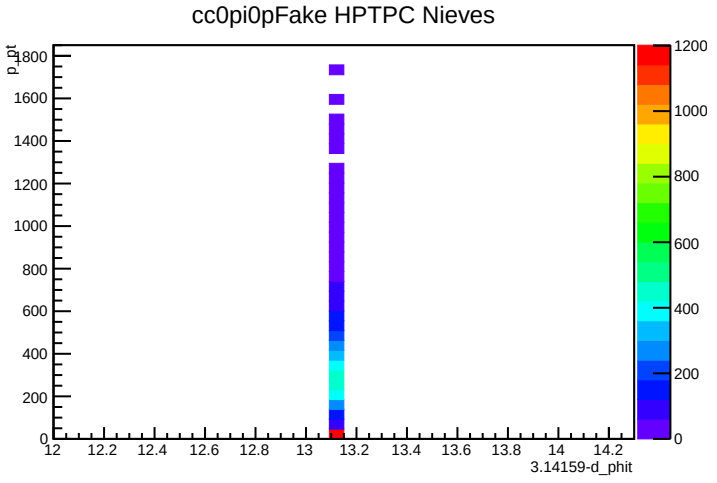
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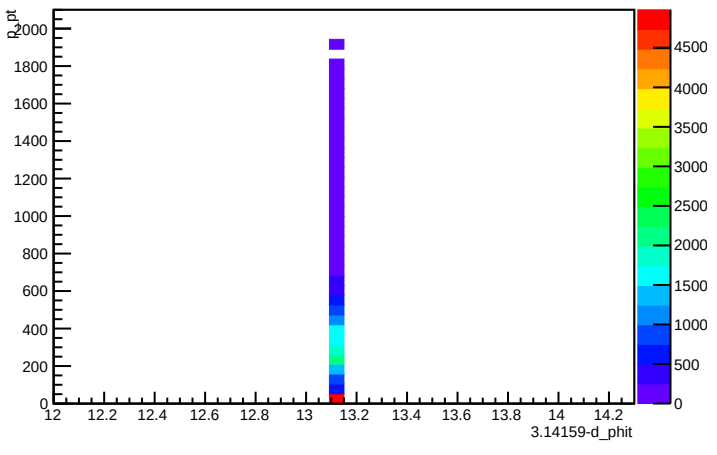
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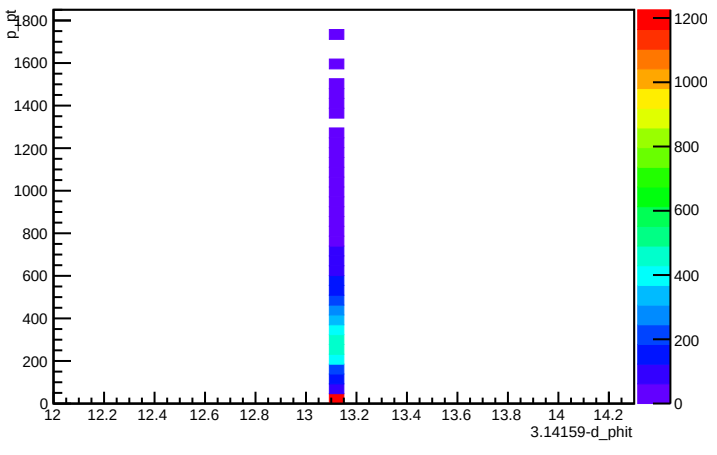
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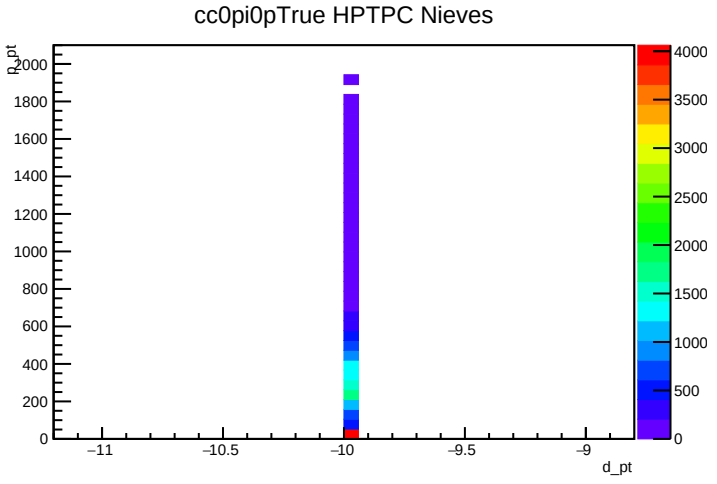
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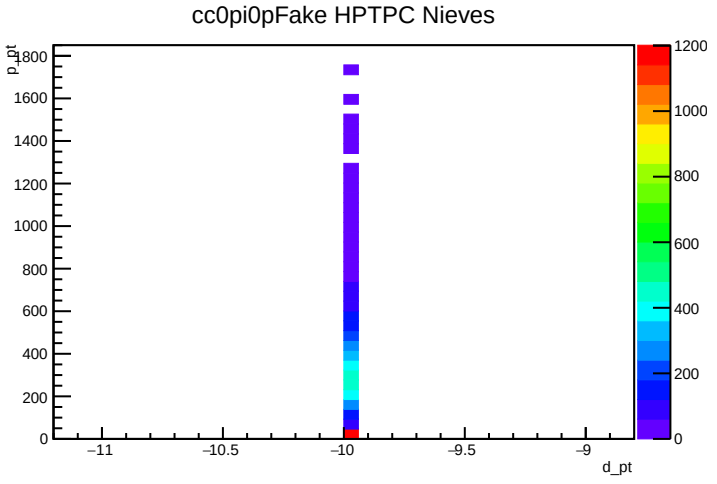
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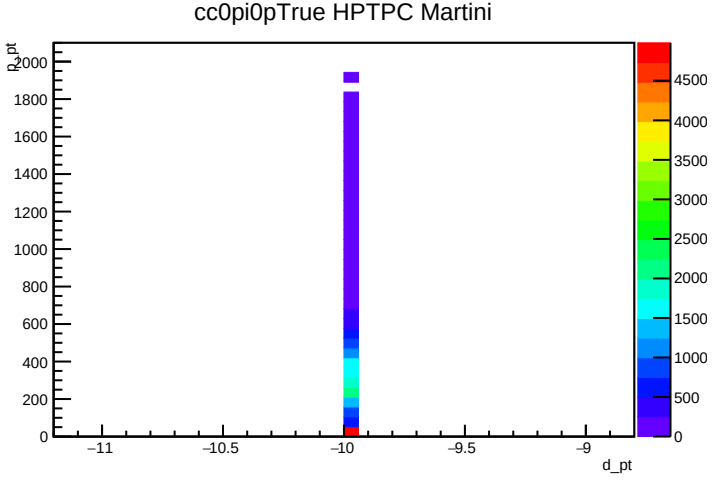
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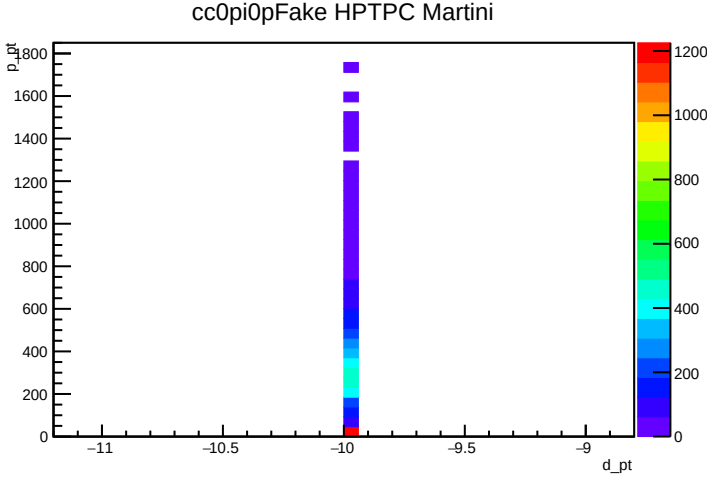
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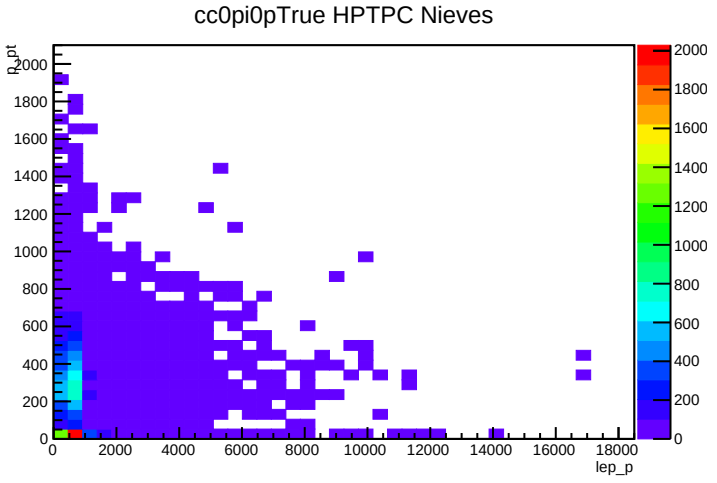
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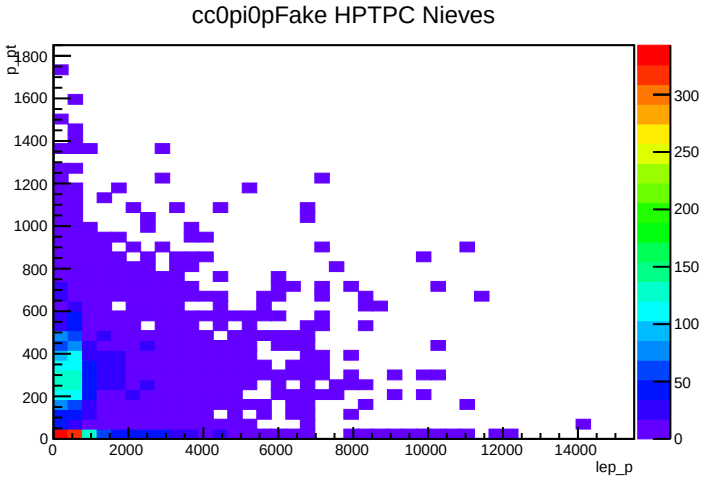
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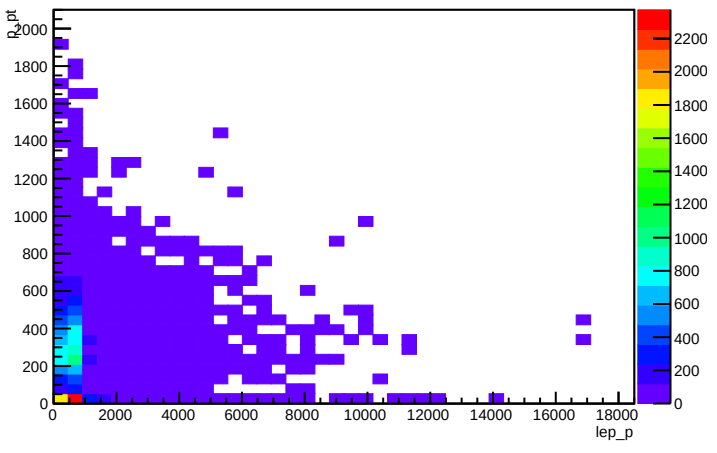
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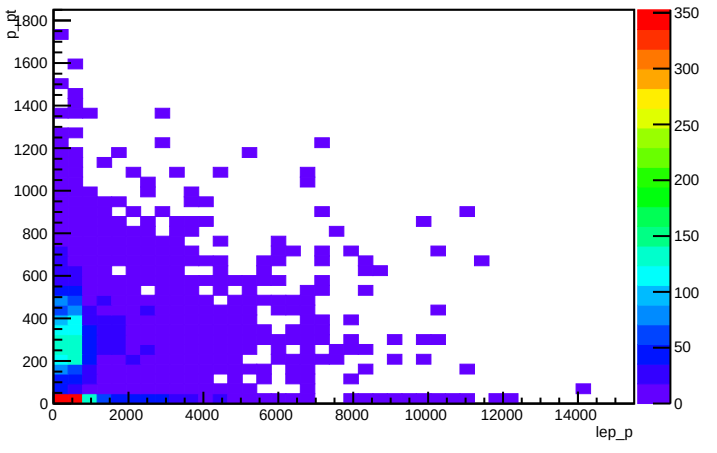
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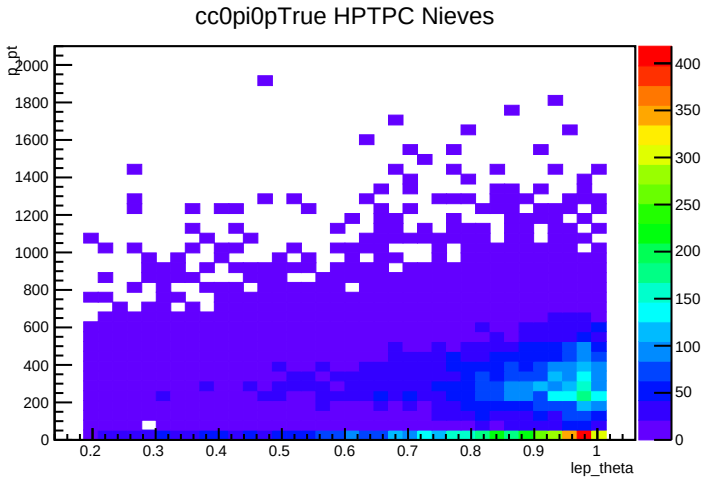
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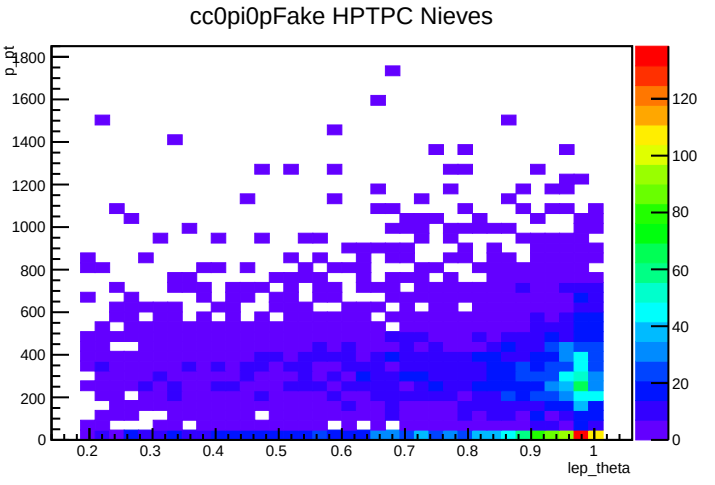
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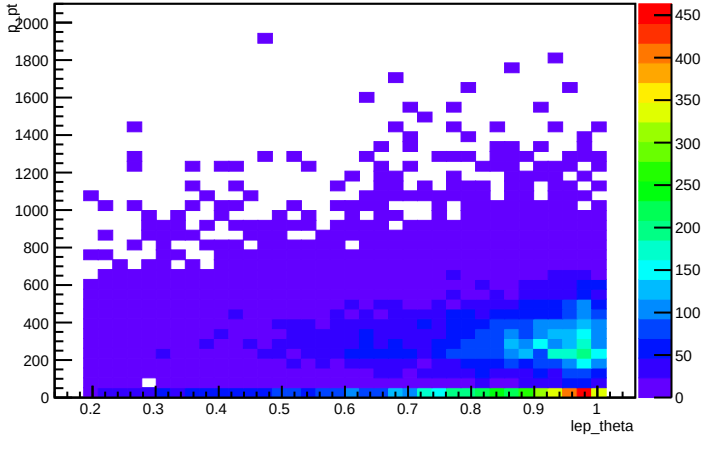
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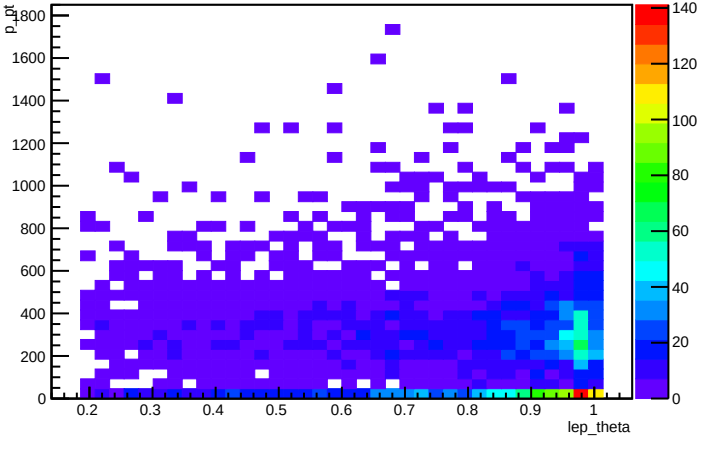
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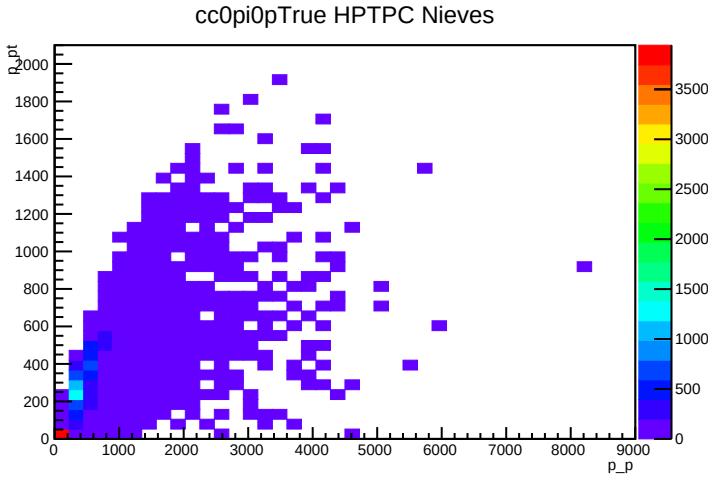
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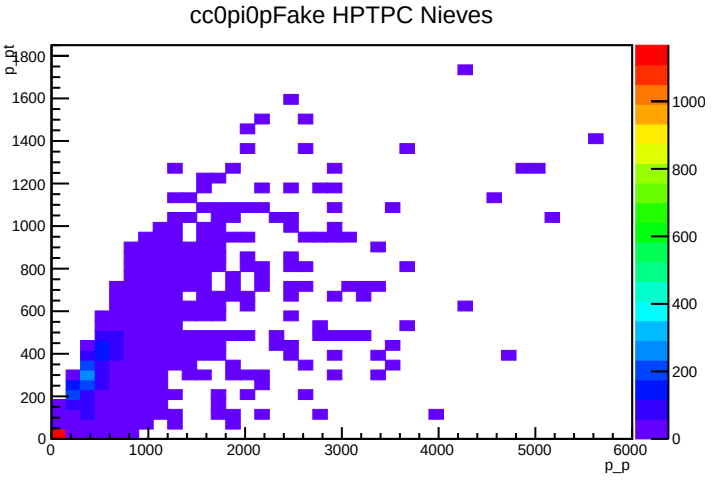
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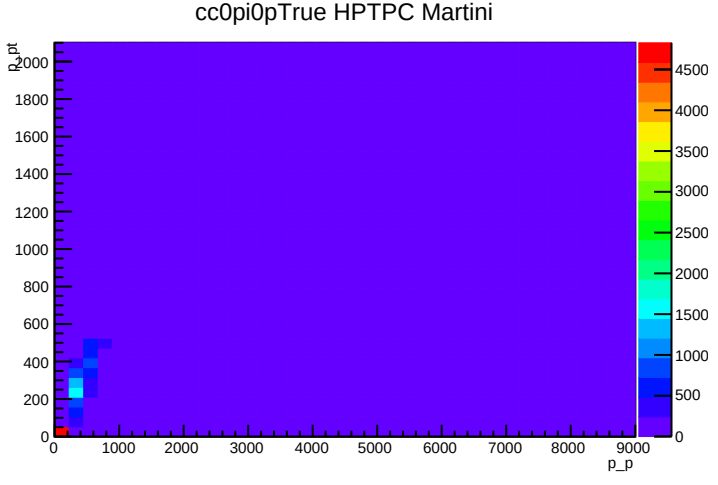
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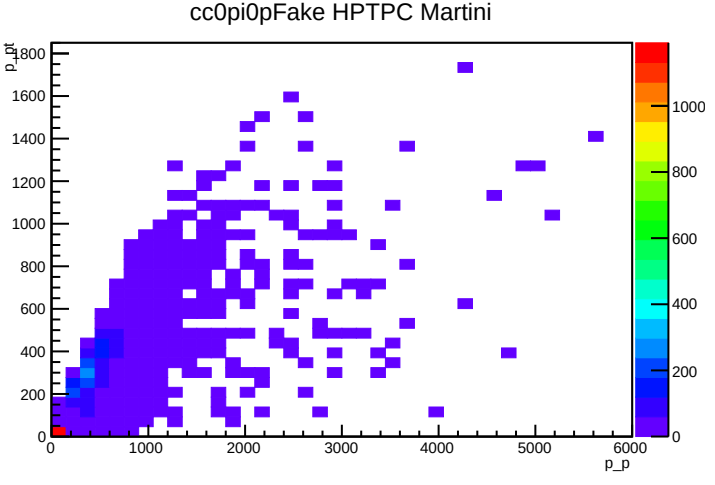
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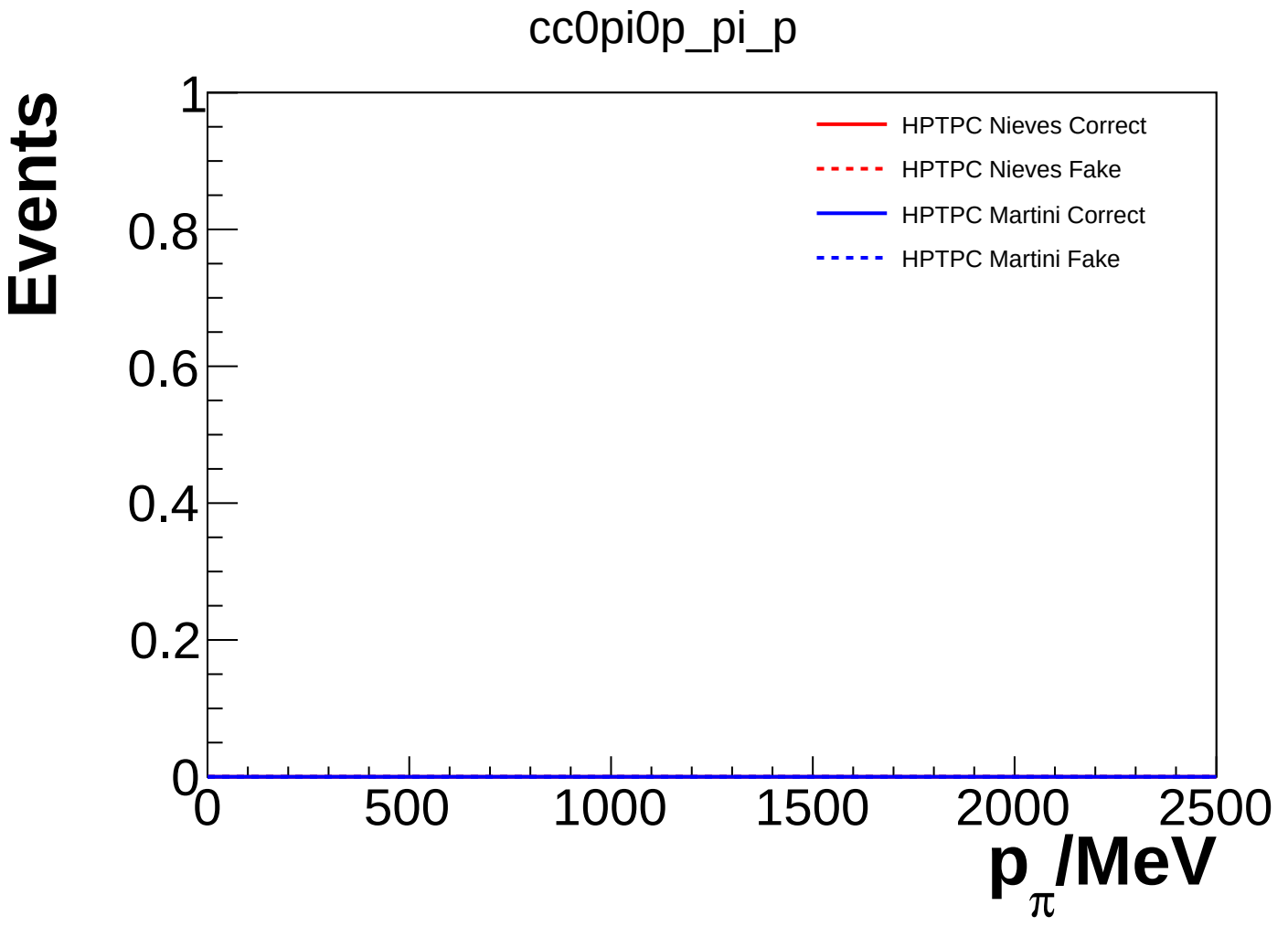
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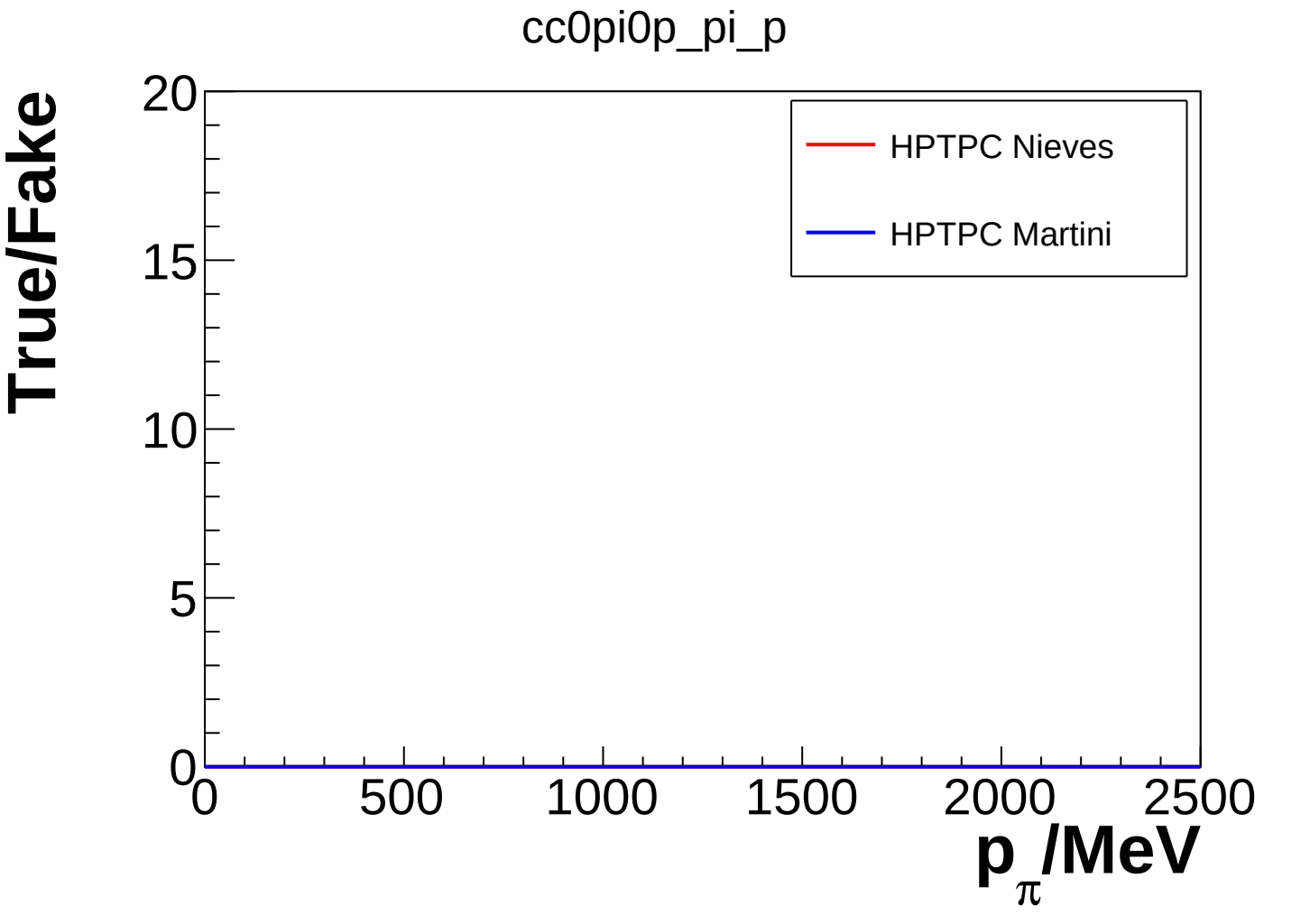
p_π /MeV
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake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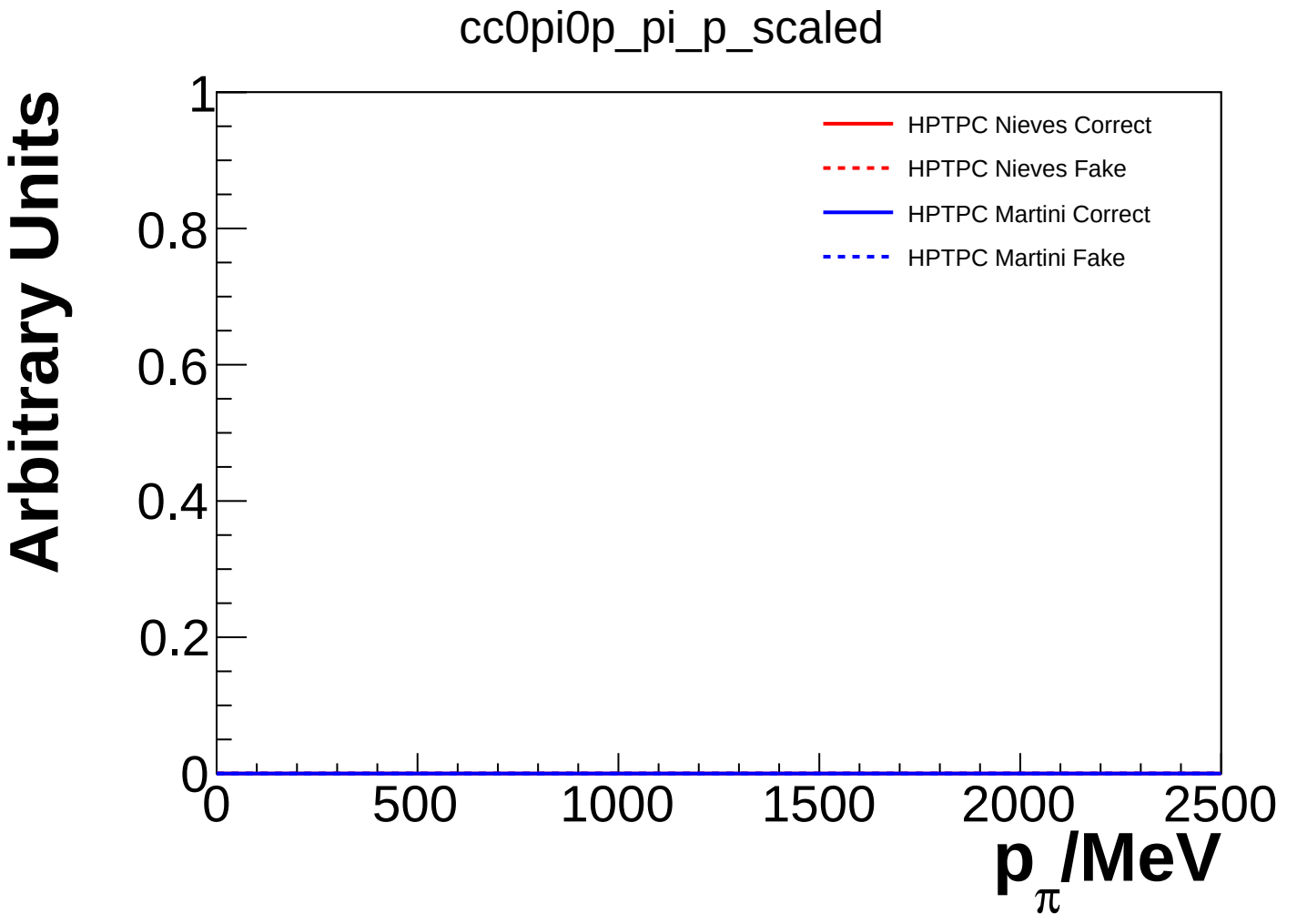
p_π/MeV
HPTPC Nieves
HPTPC Martini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Arbitrary Units
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HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
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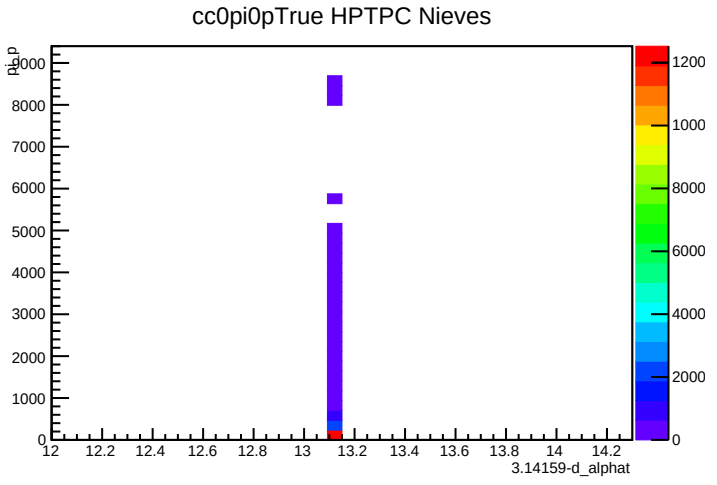
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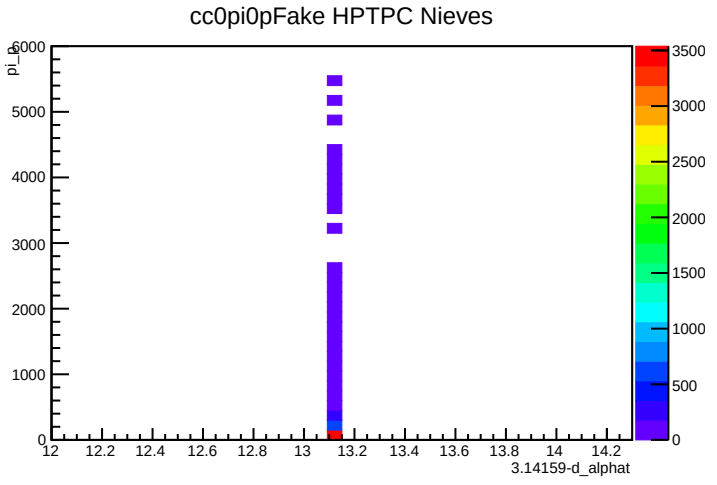
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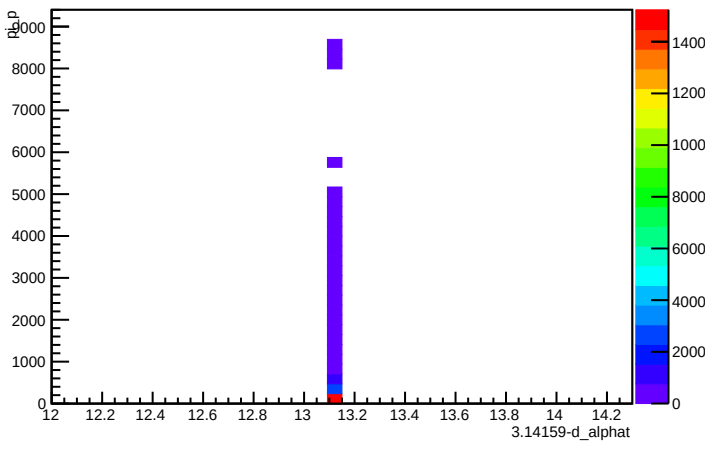
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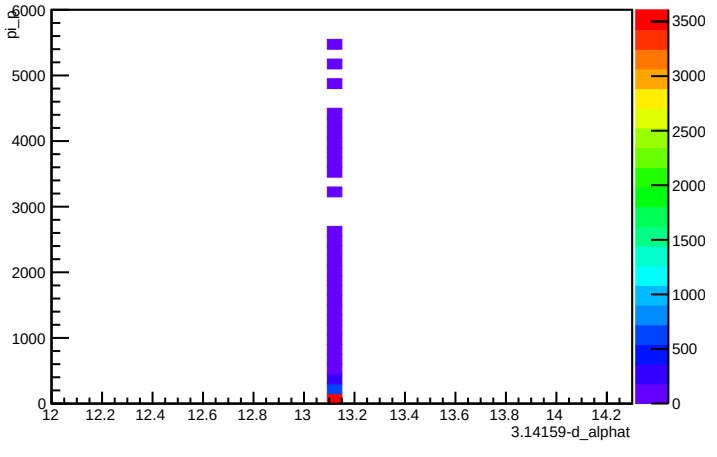
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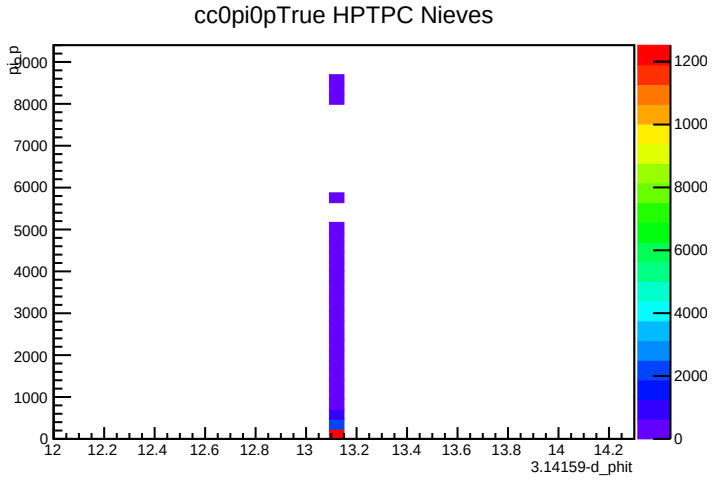
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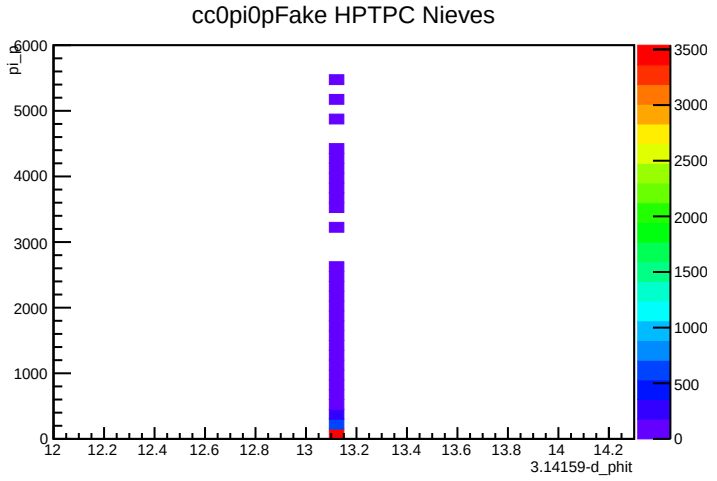
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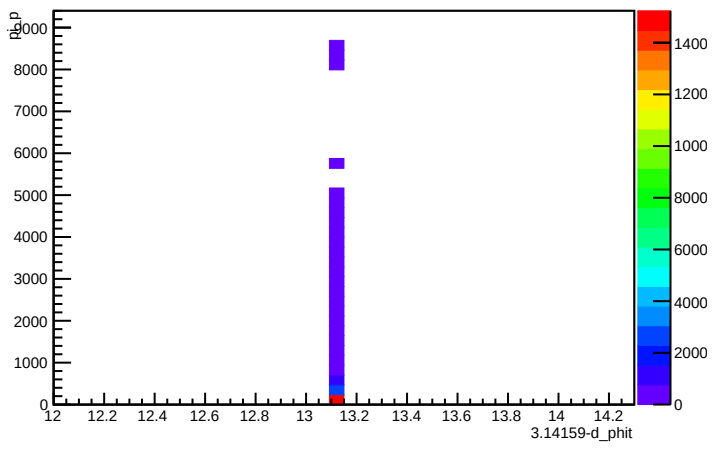
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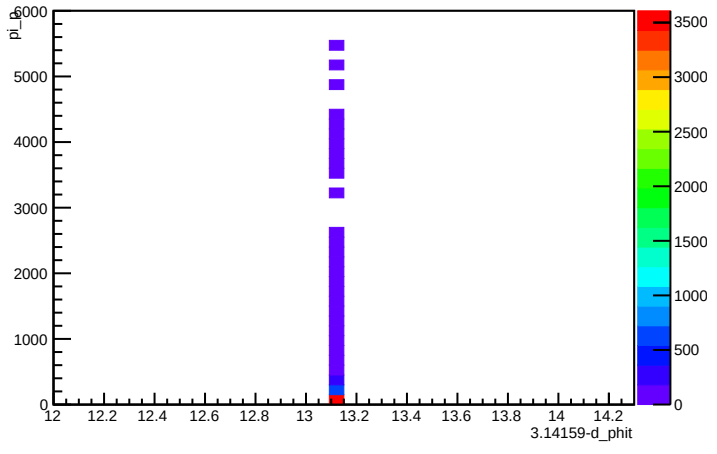
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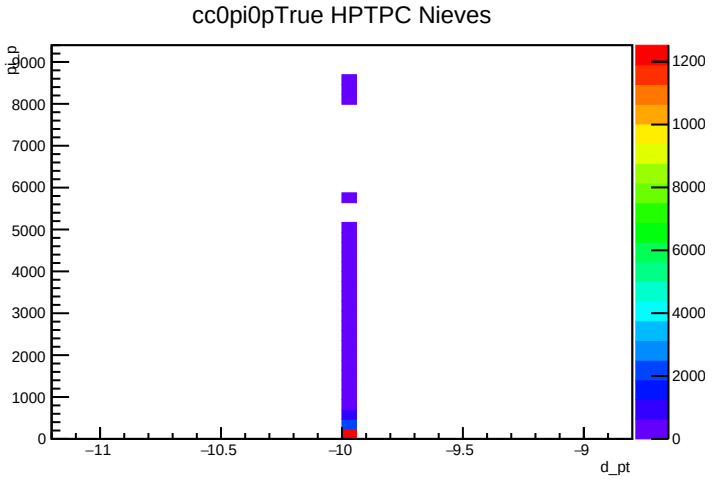
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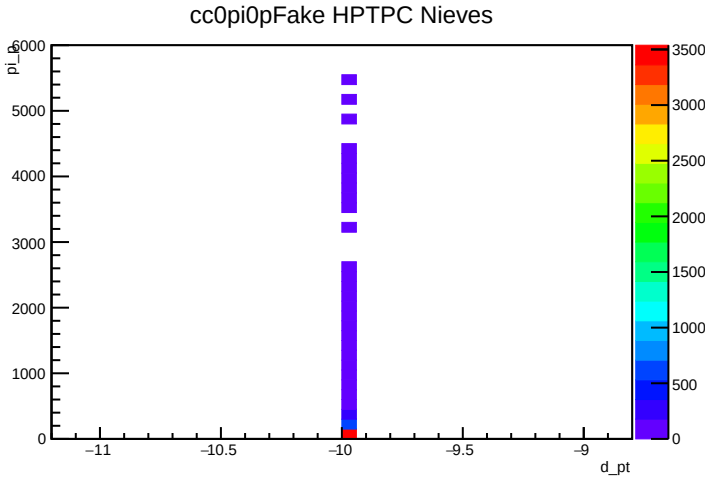
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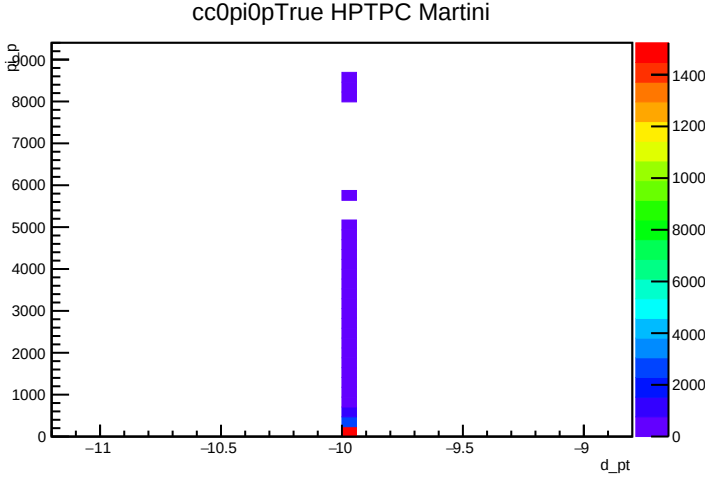
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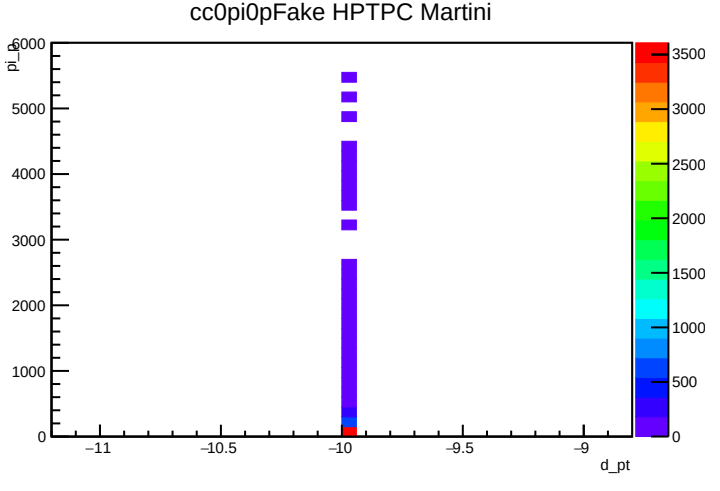
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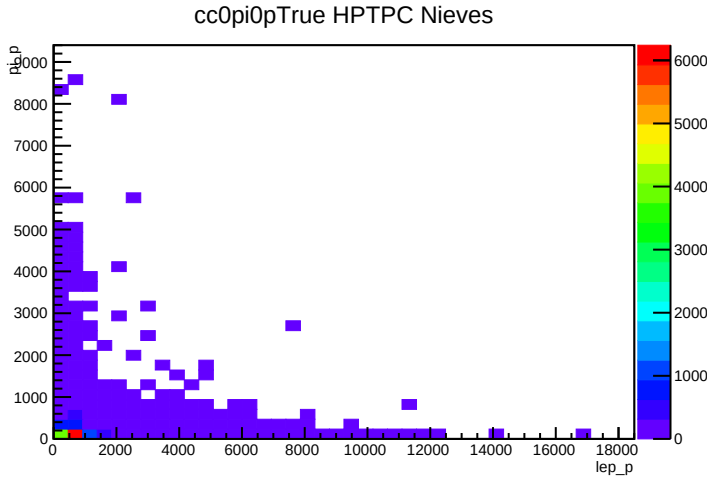
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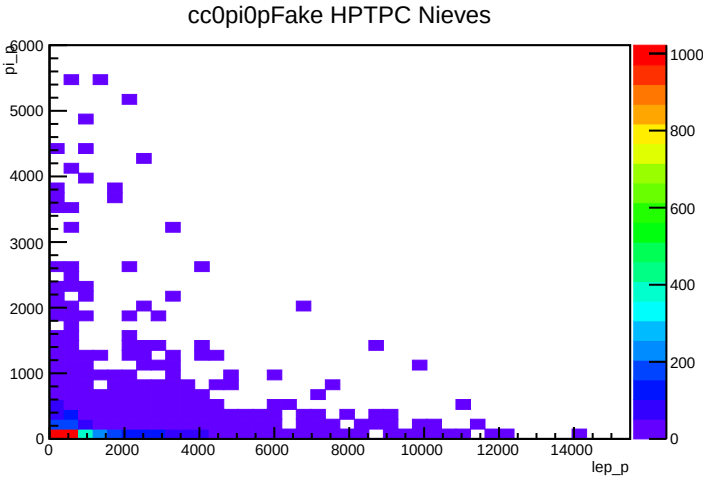
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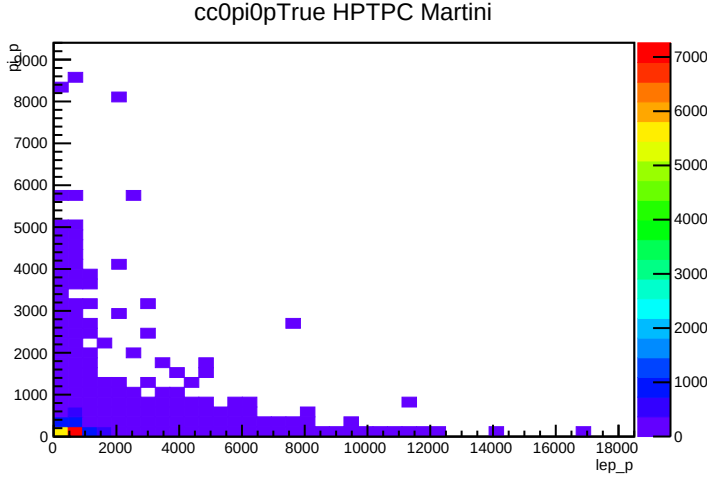
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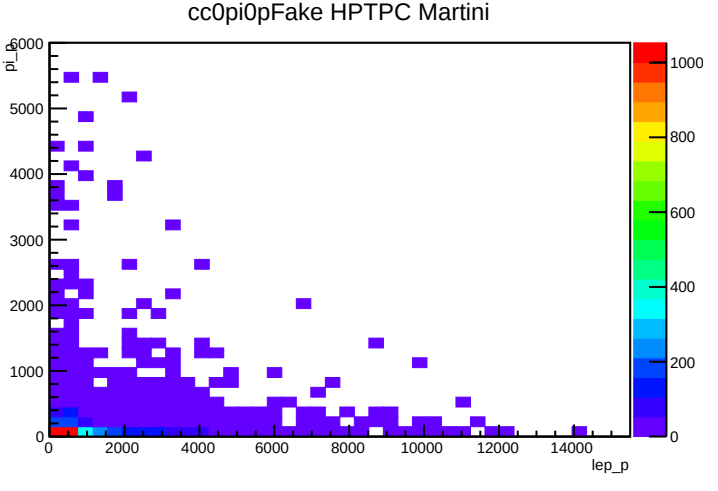
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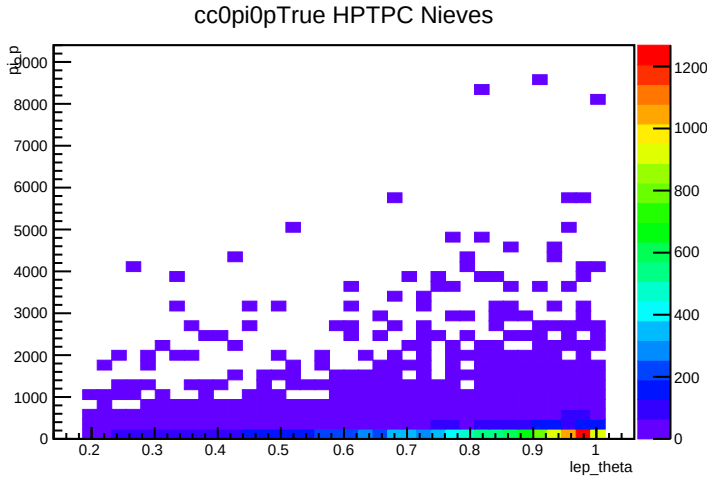
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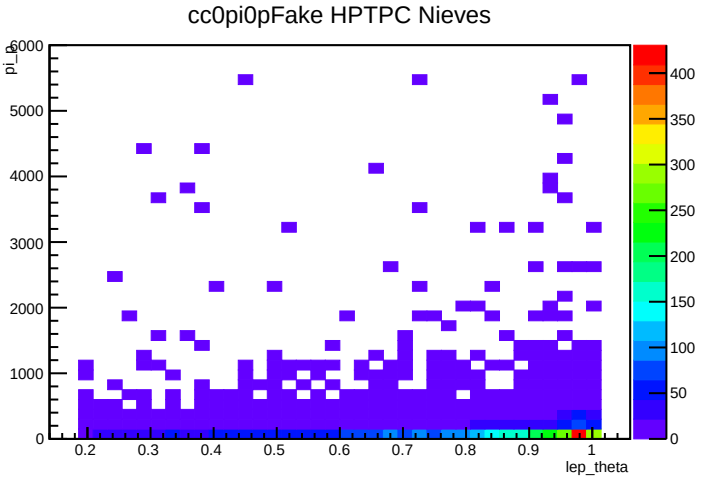
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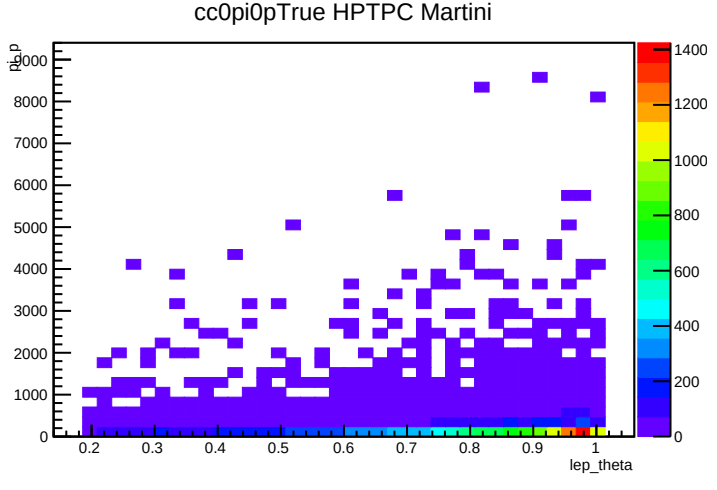
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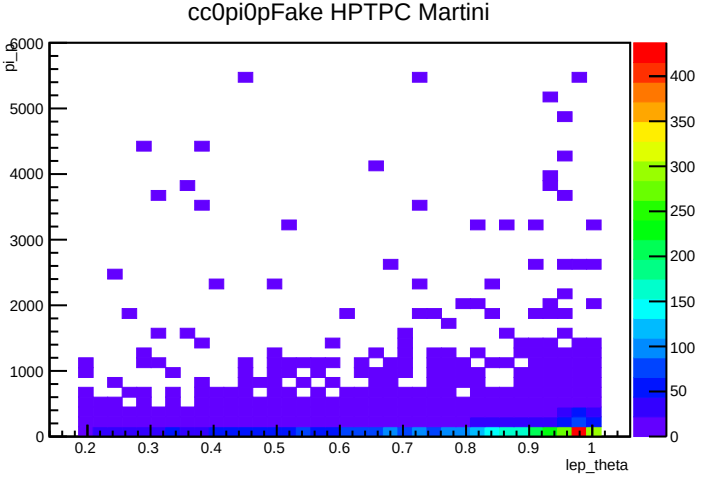
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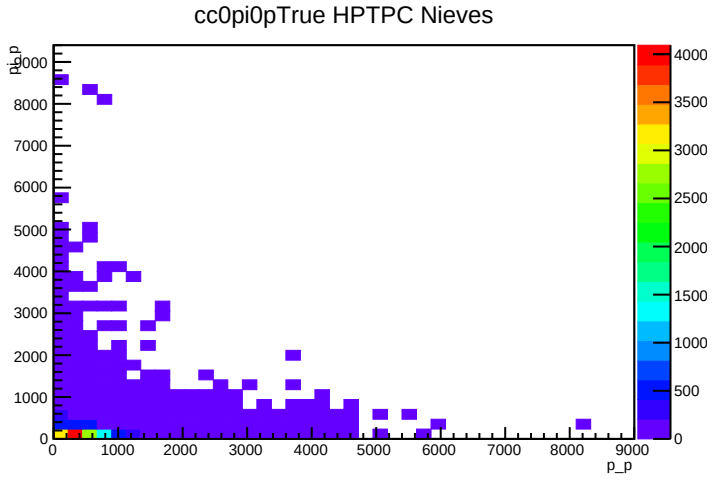
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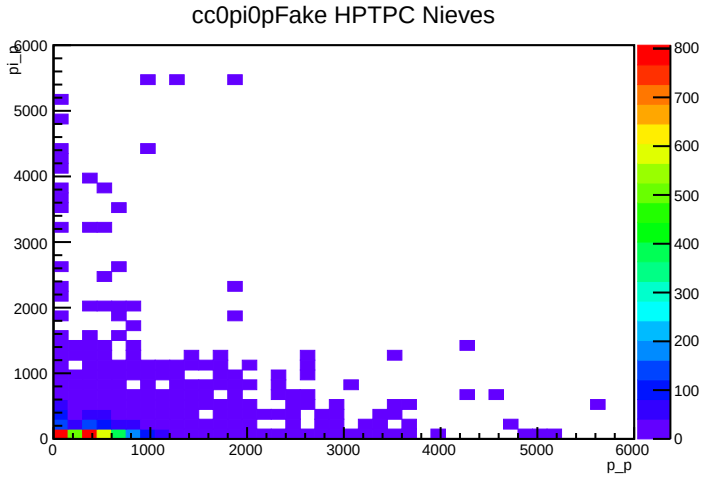
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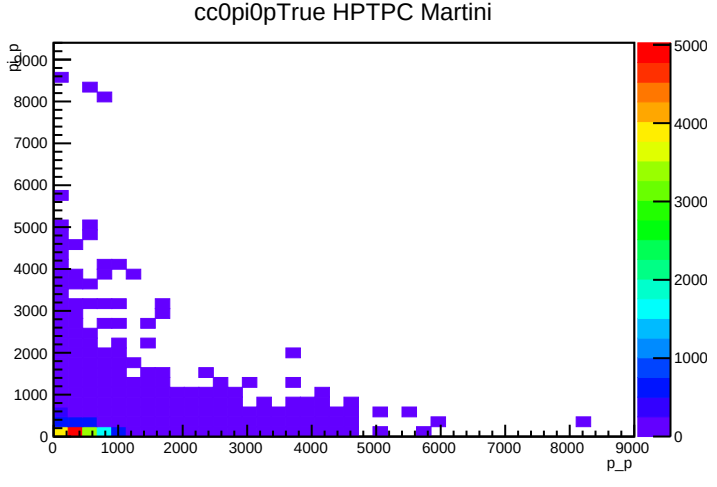
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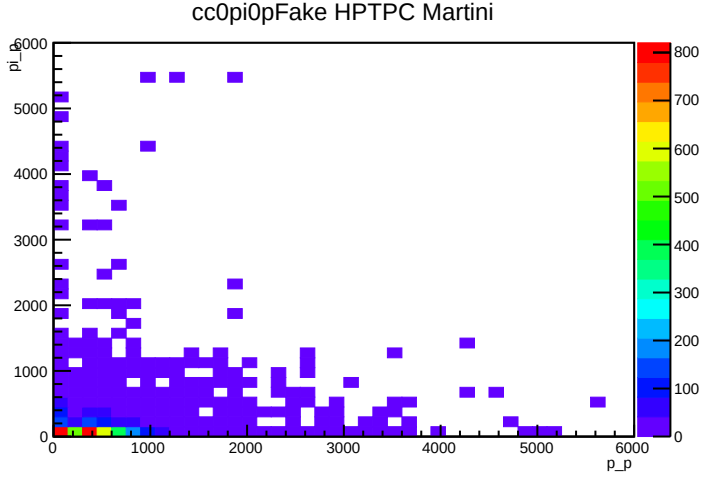
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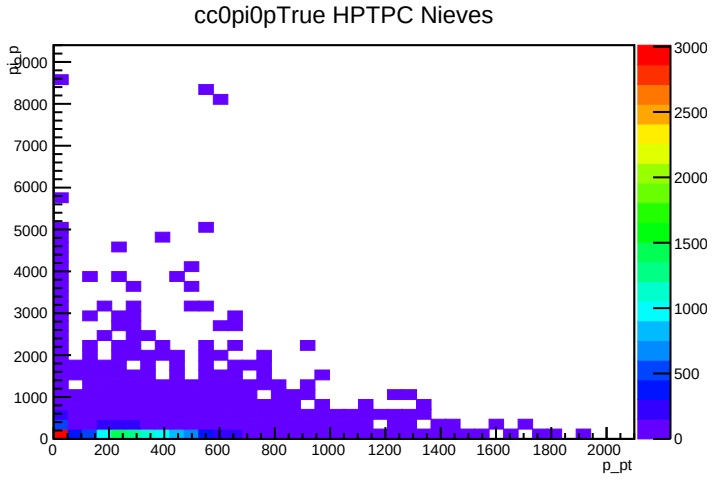
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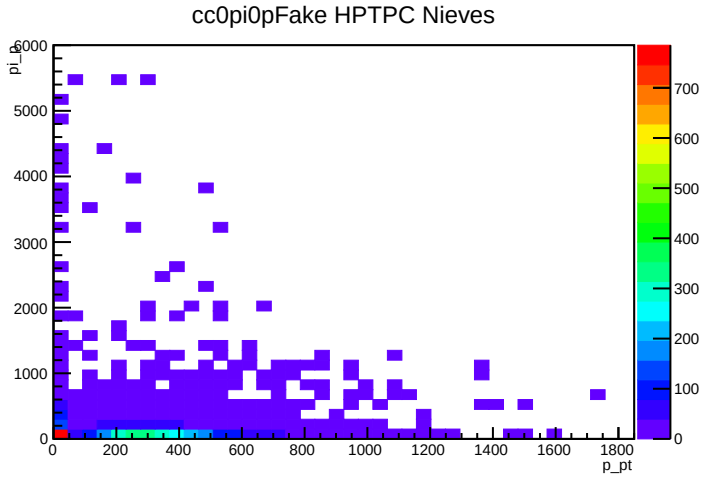
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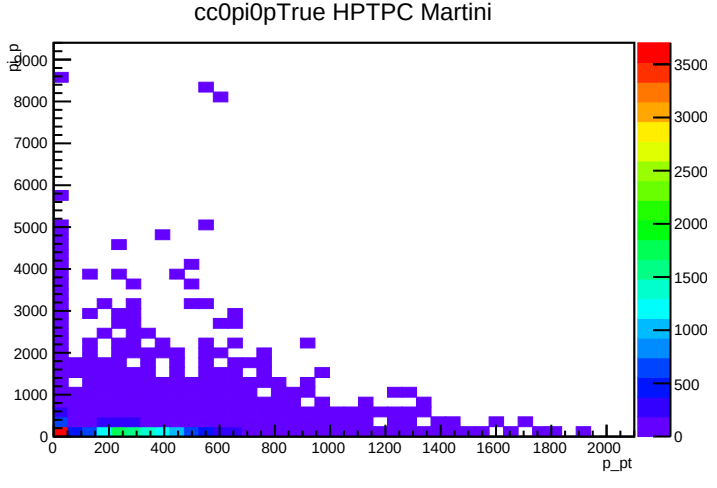
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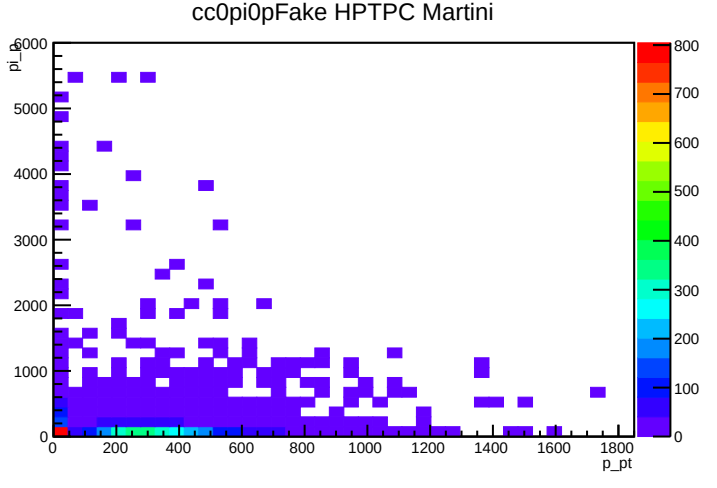
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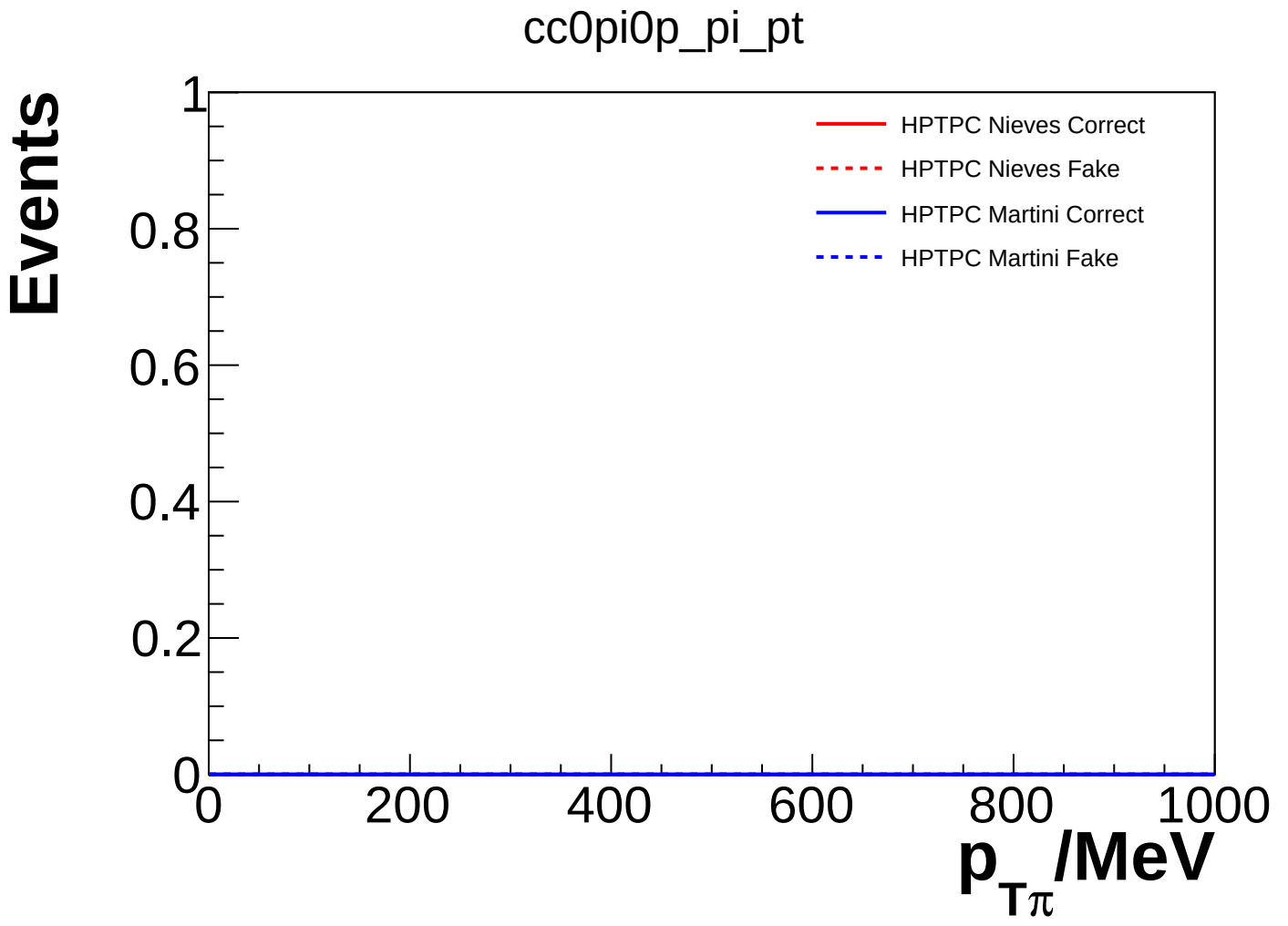
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Events
1
0.8
0.6
0.4
0.2
0
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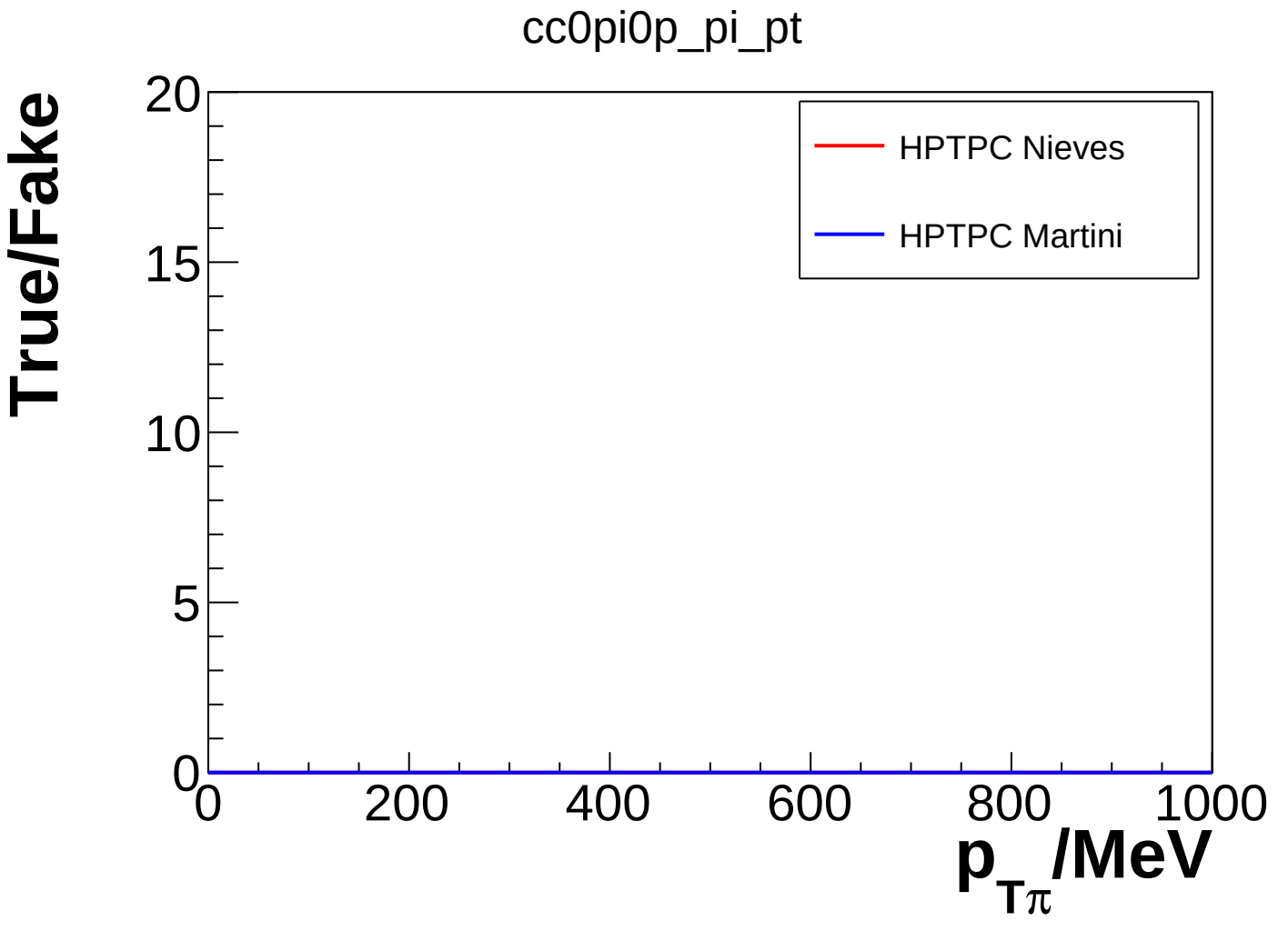
400
600
800
1000
$p_{T\pi}$/MeV
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake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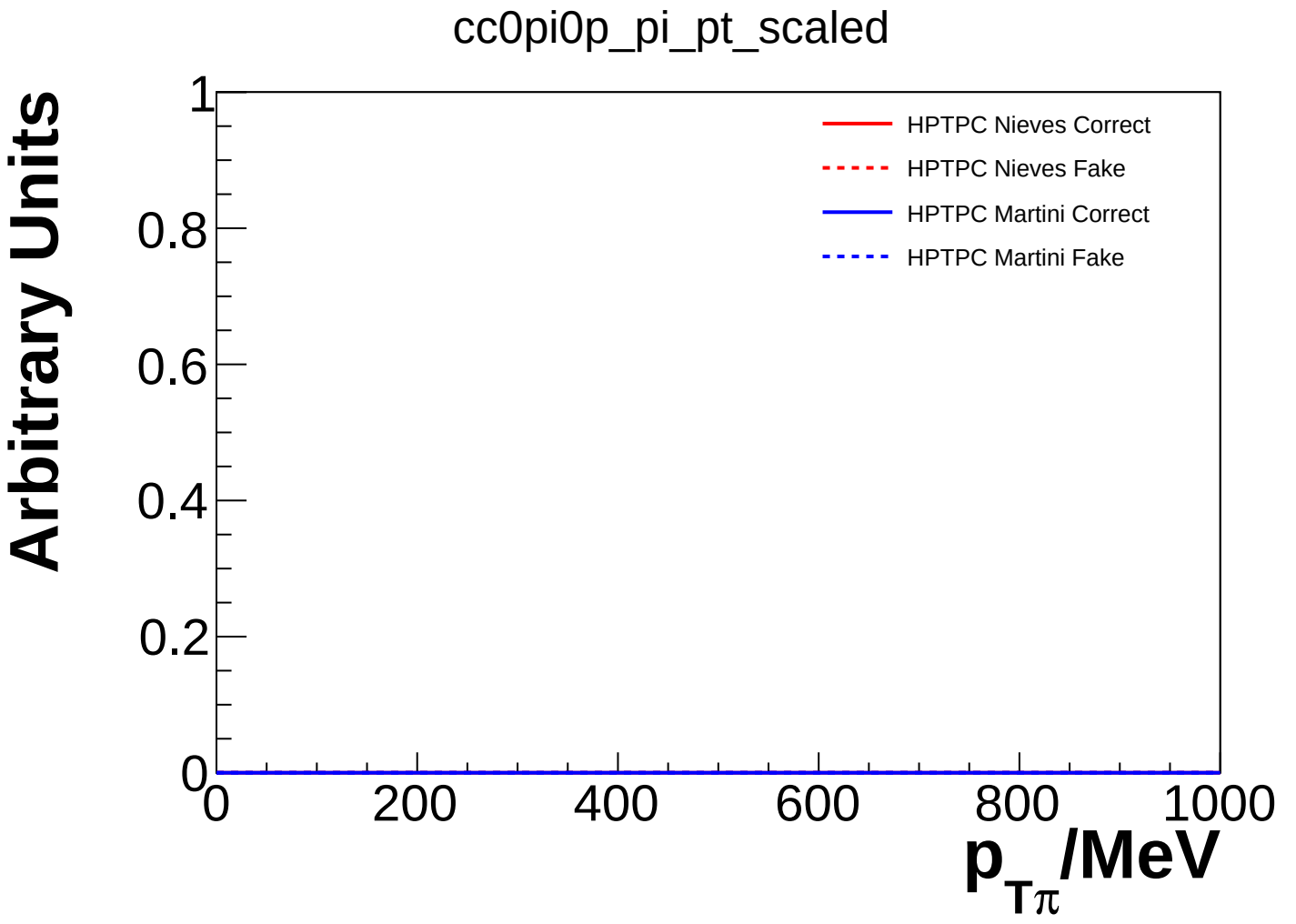
HPTPC Nieves
HPTPC Martini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0.4
0.2
0
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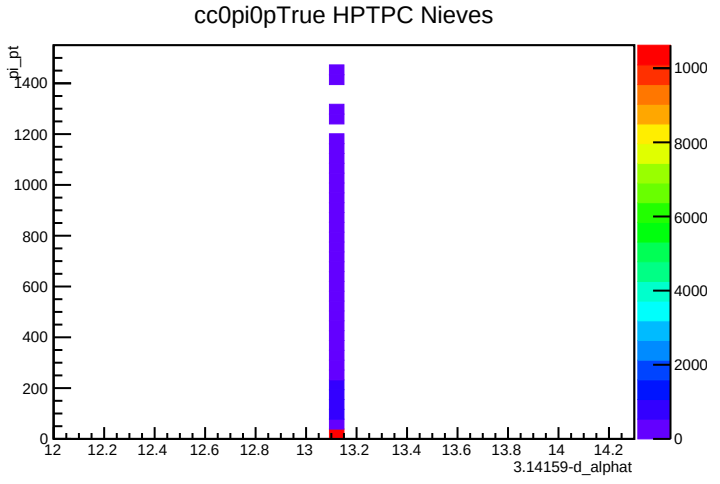
1000
$p_{T\pi}$/MeV
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake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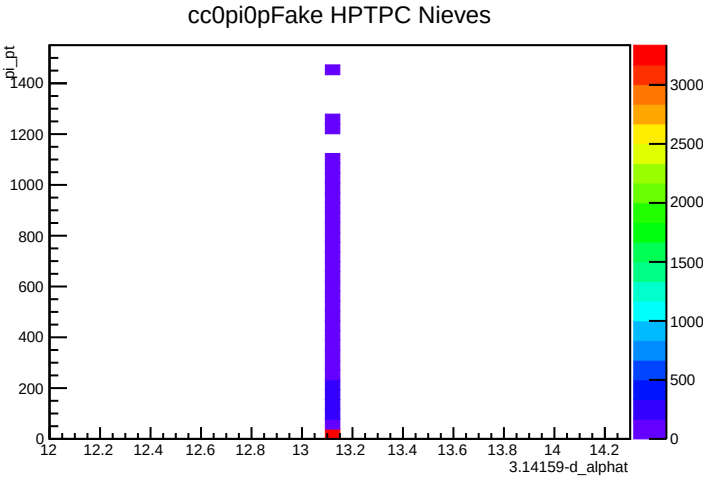
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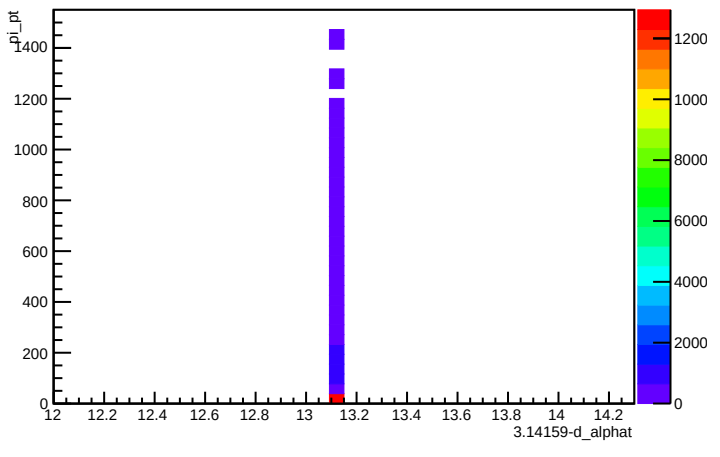
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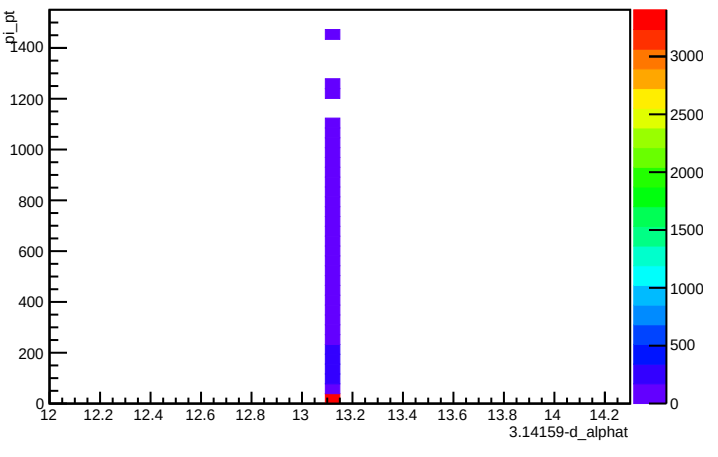
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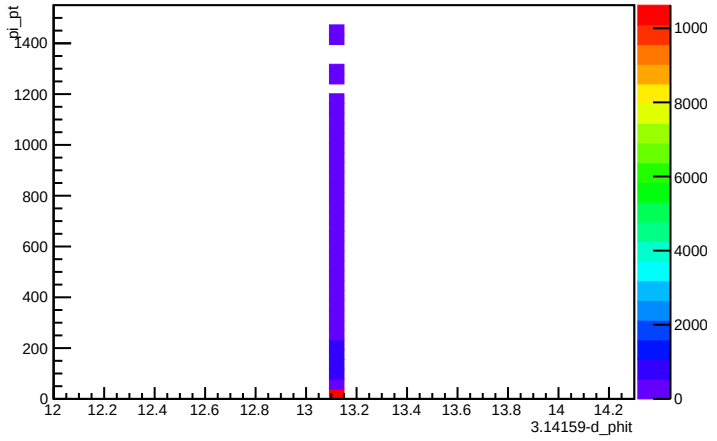
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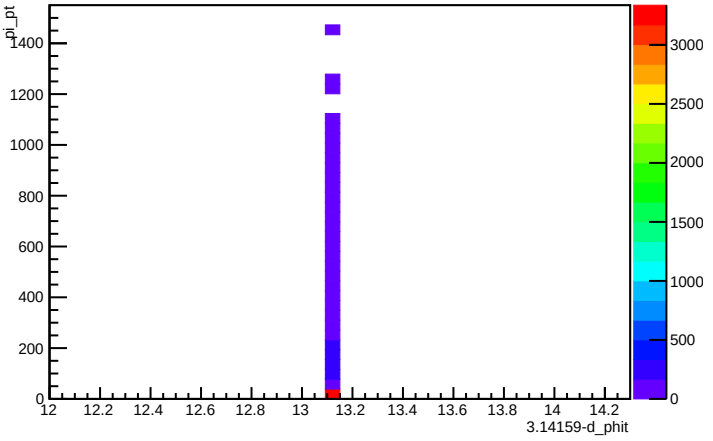
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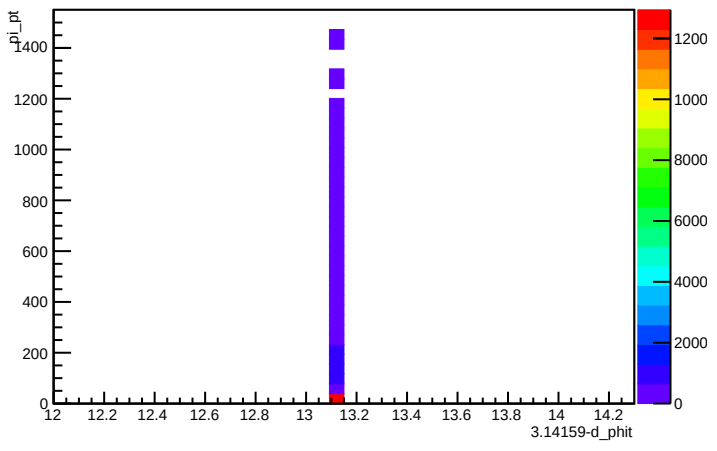
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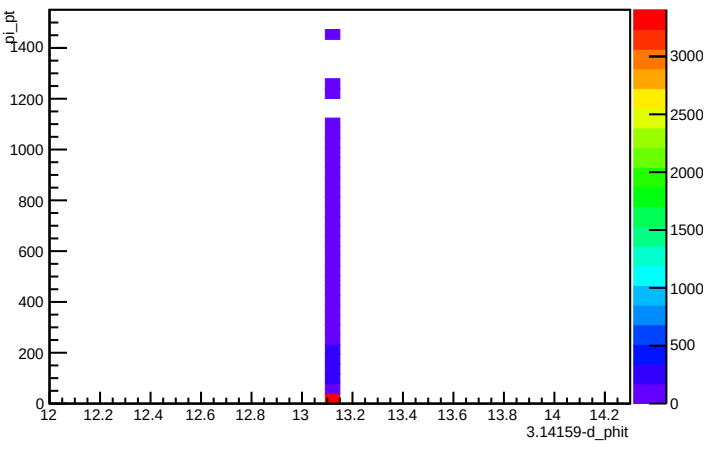
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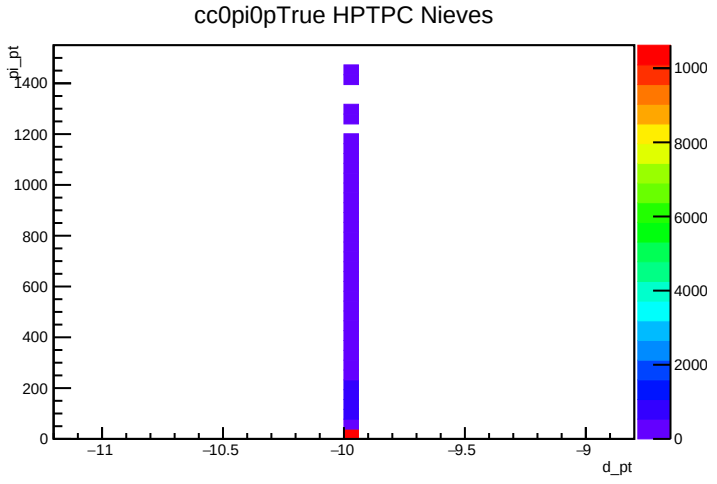
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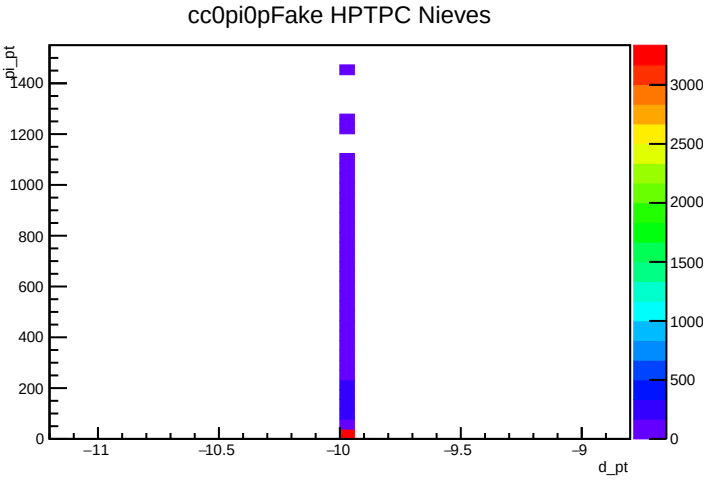
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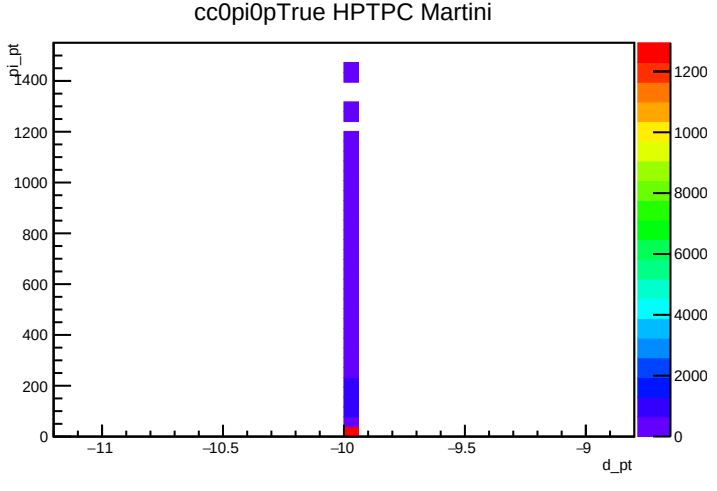
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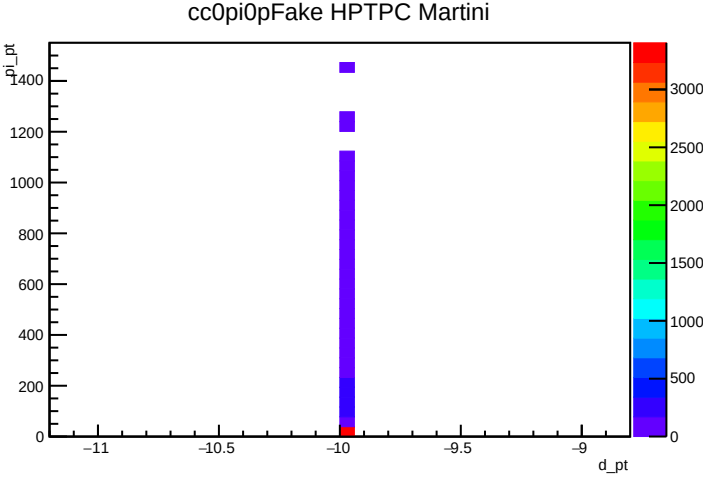
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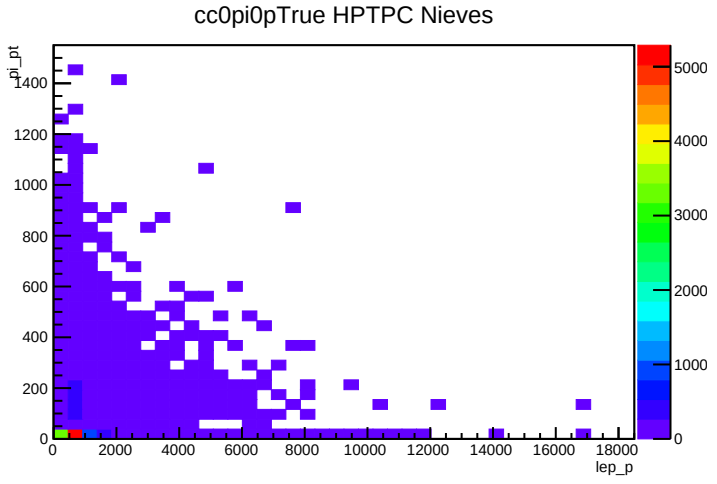
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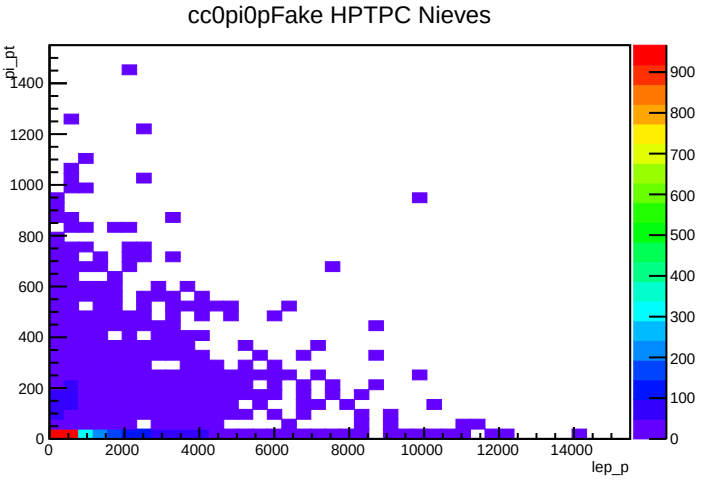
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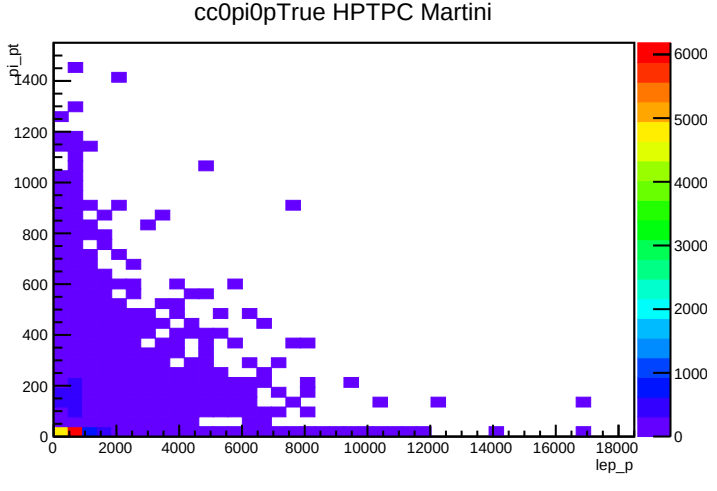
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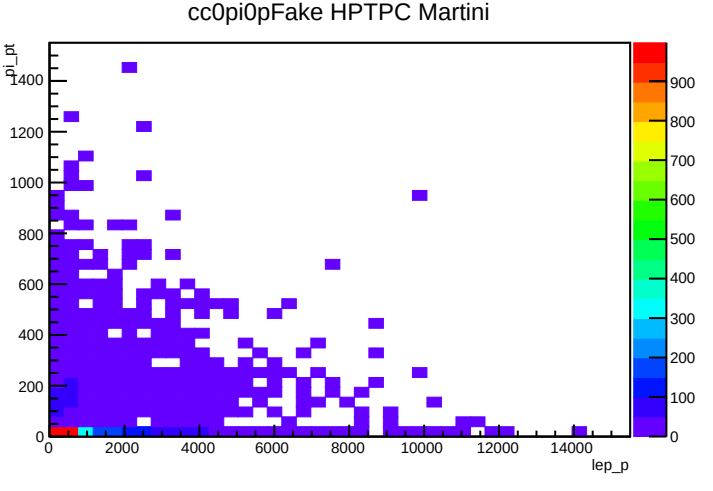
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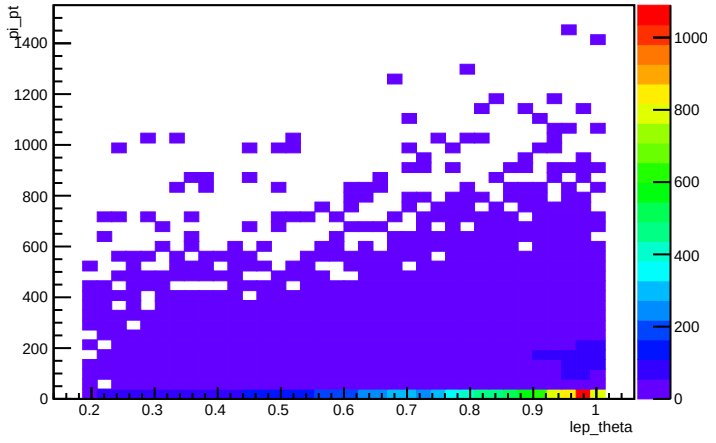
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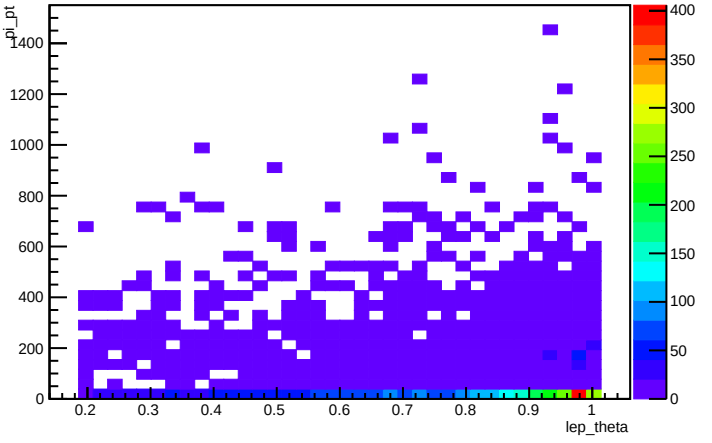
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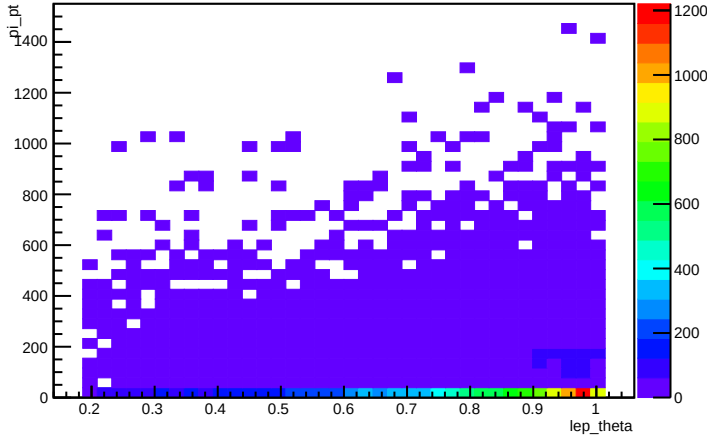
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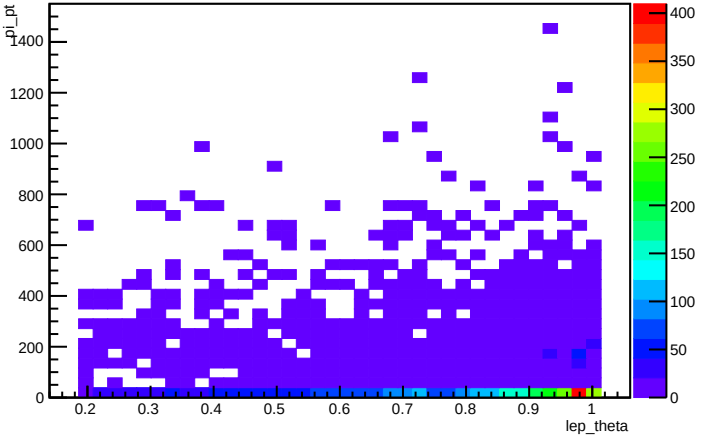
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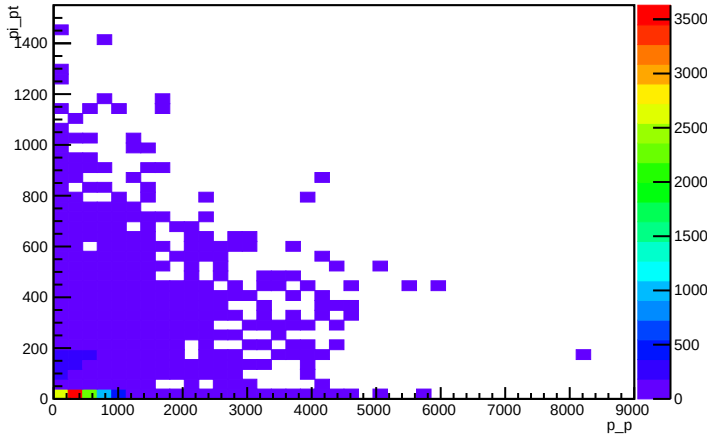
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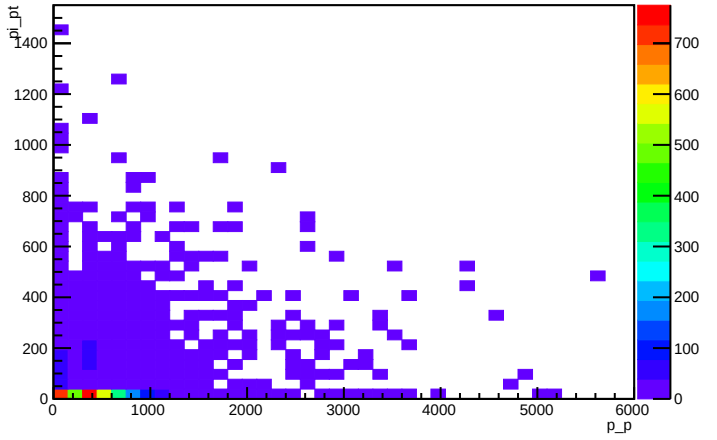
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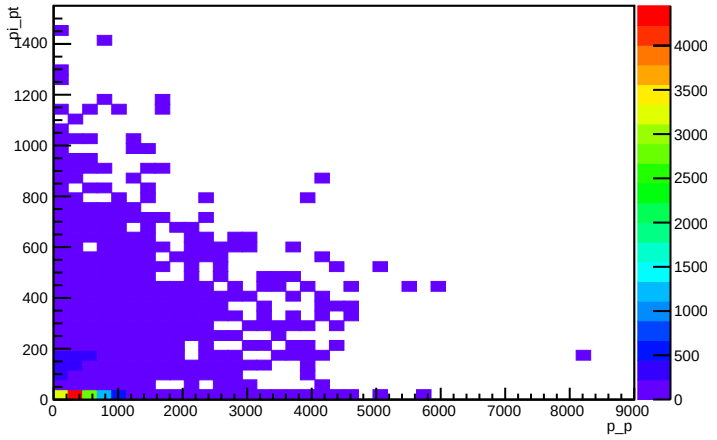
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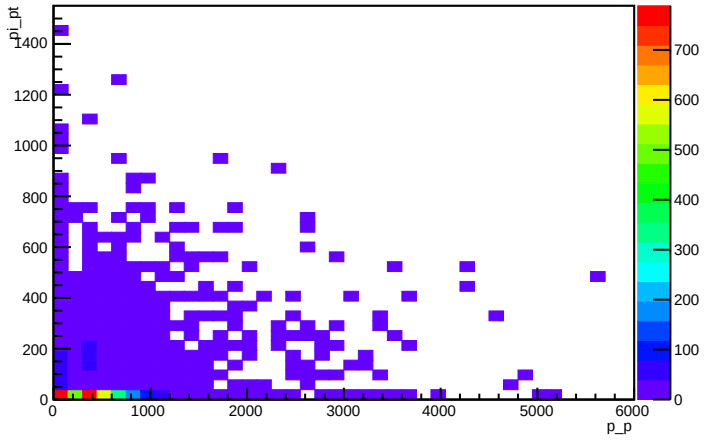
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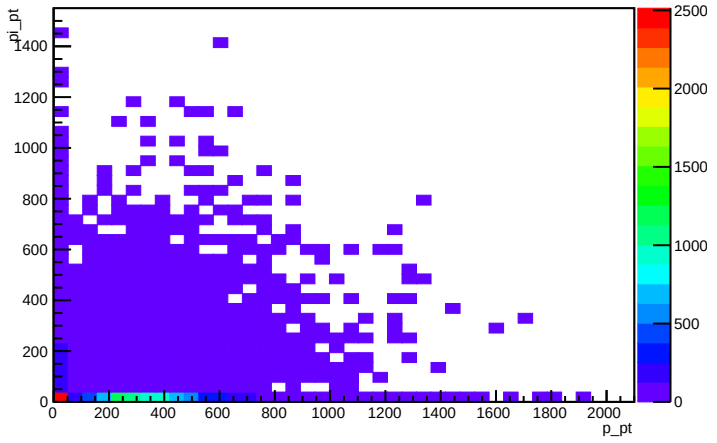
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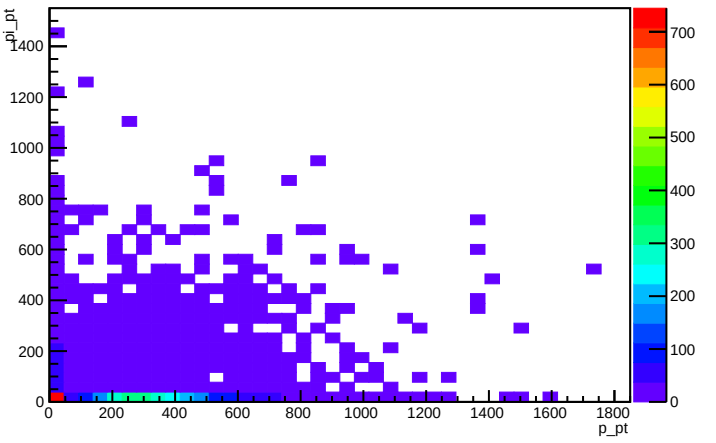
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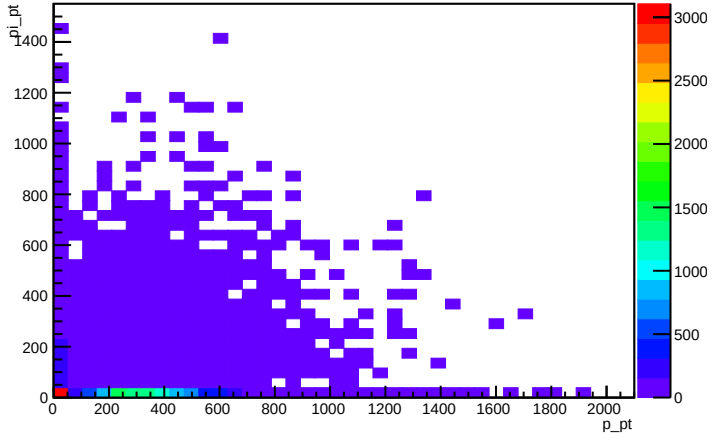
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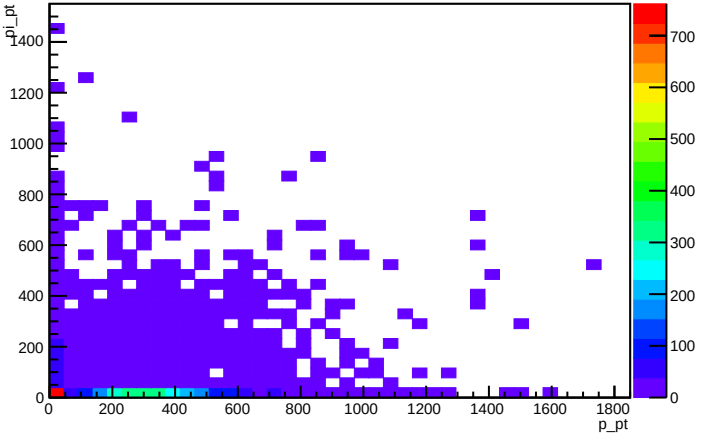
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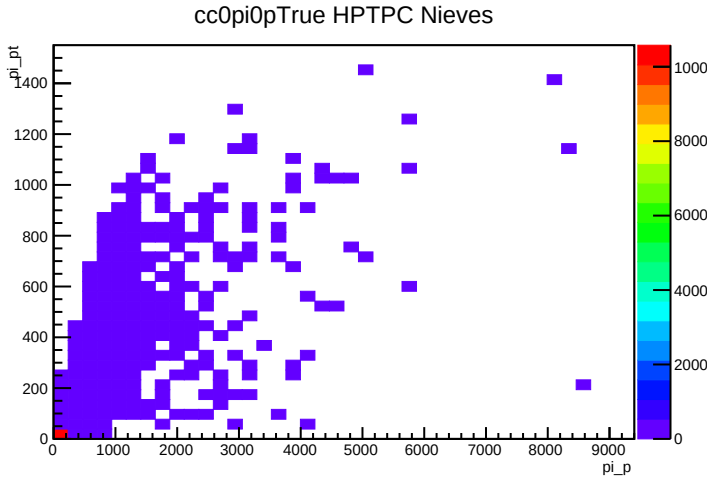
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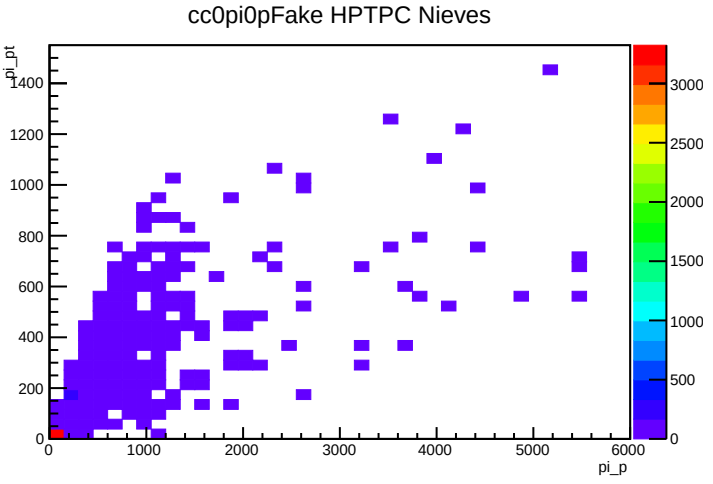
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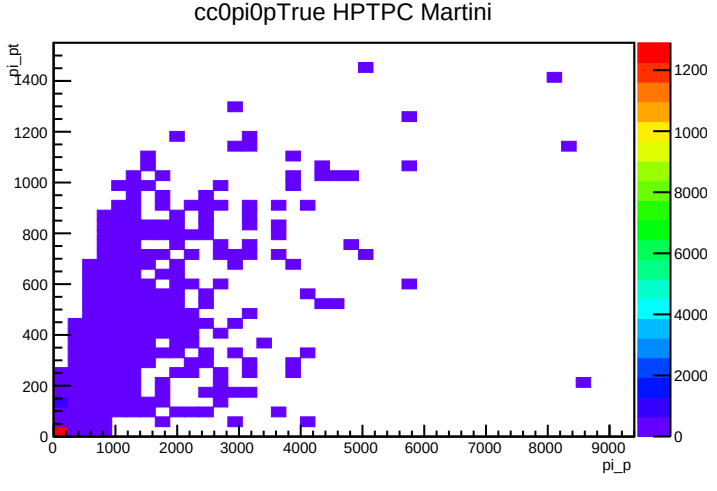
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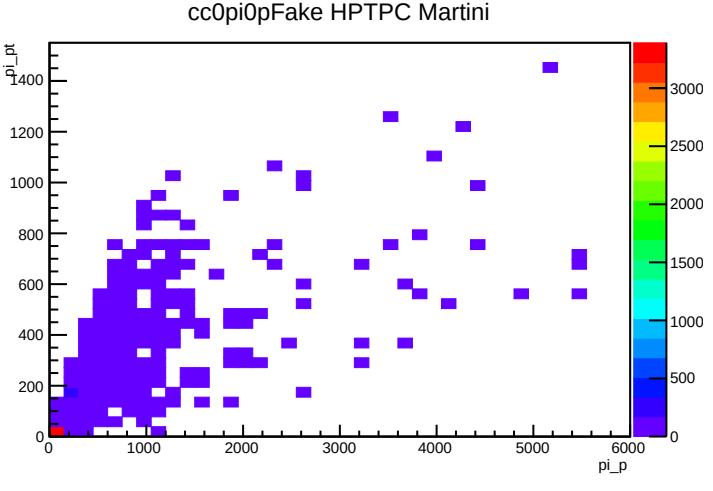
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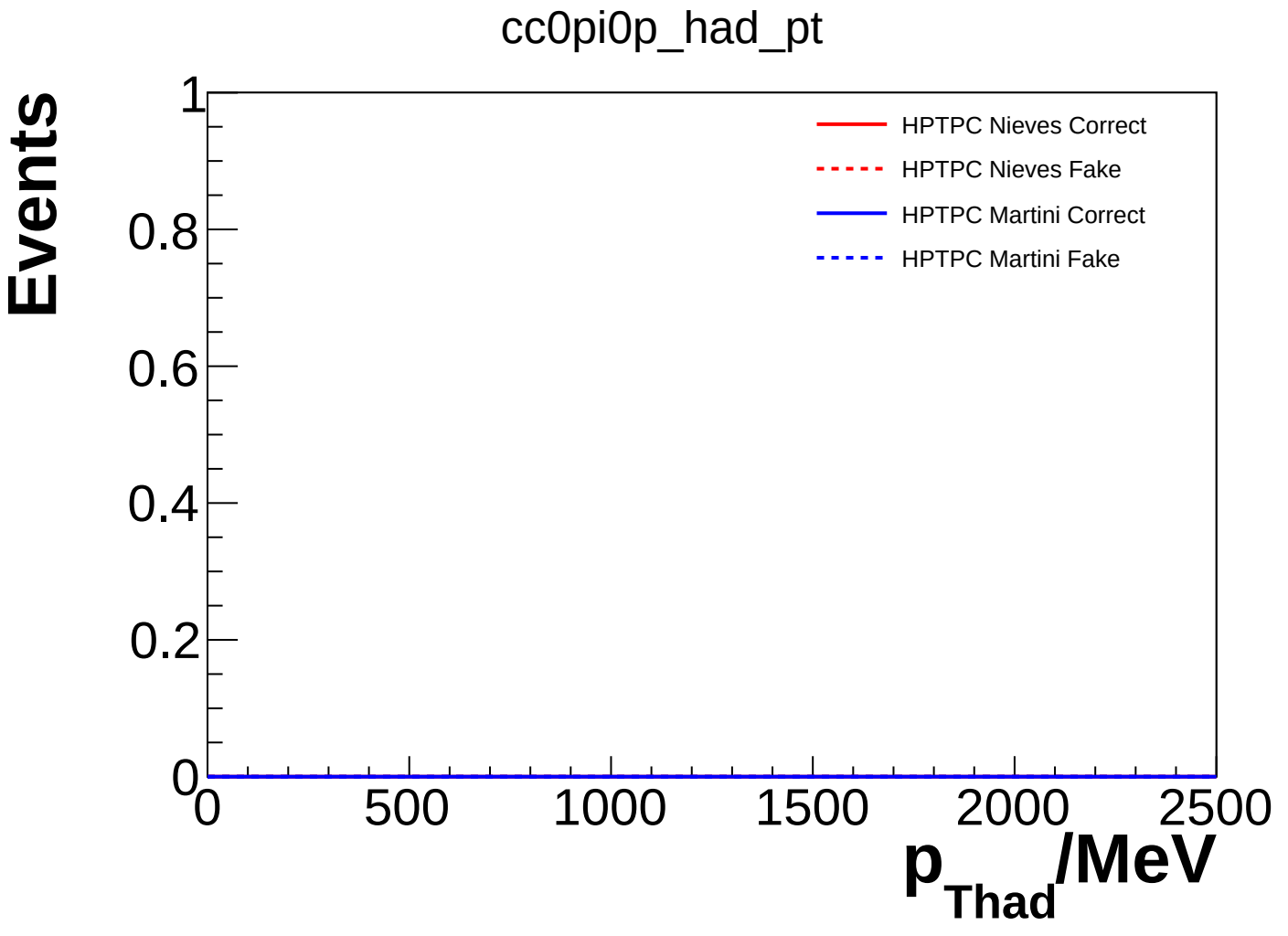
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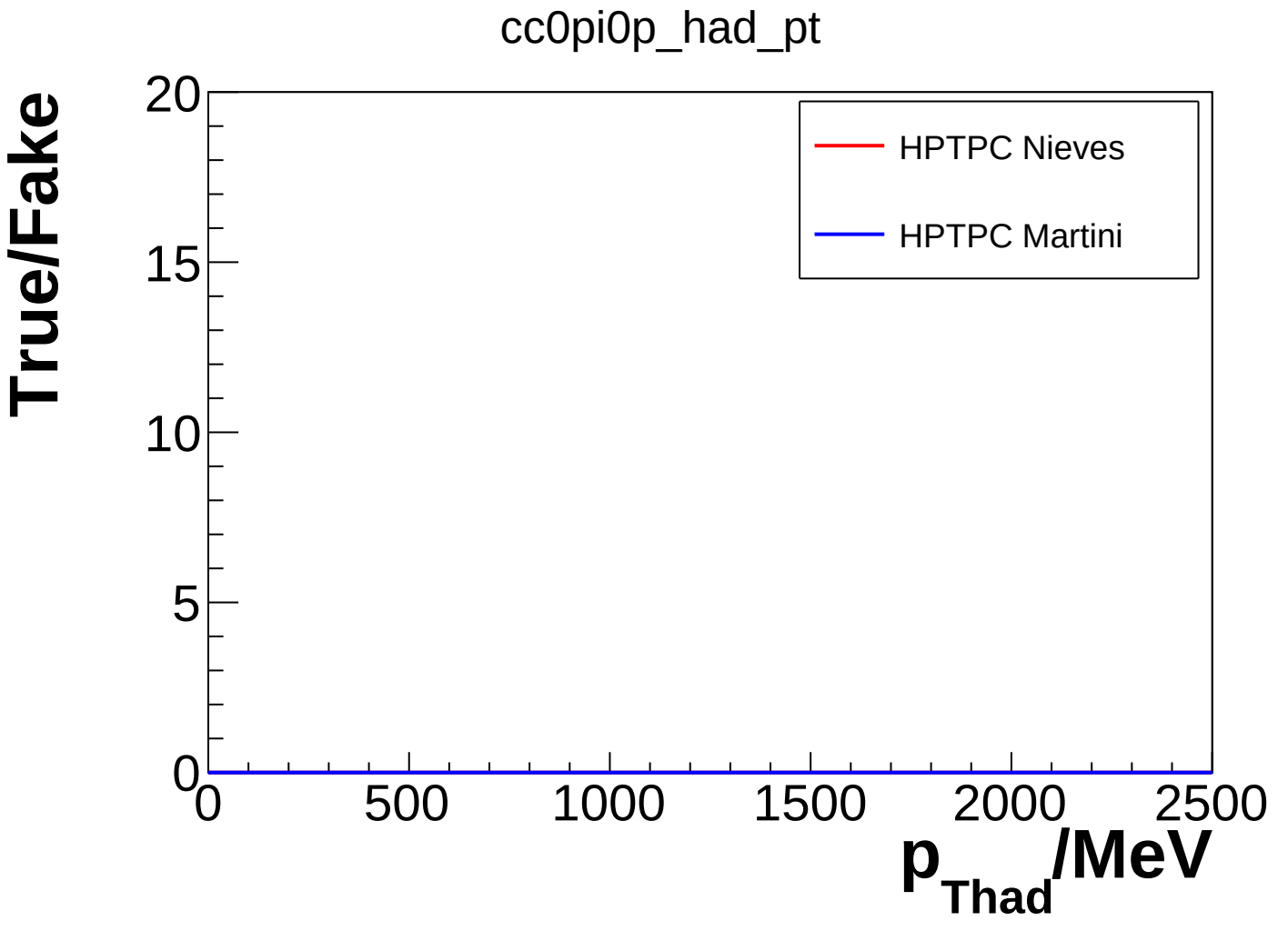
2500
p_{Thad}/MeV
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake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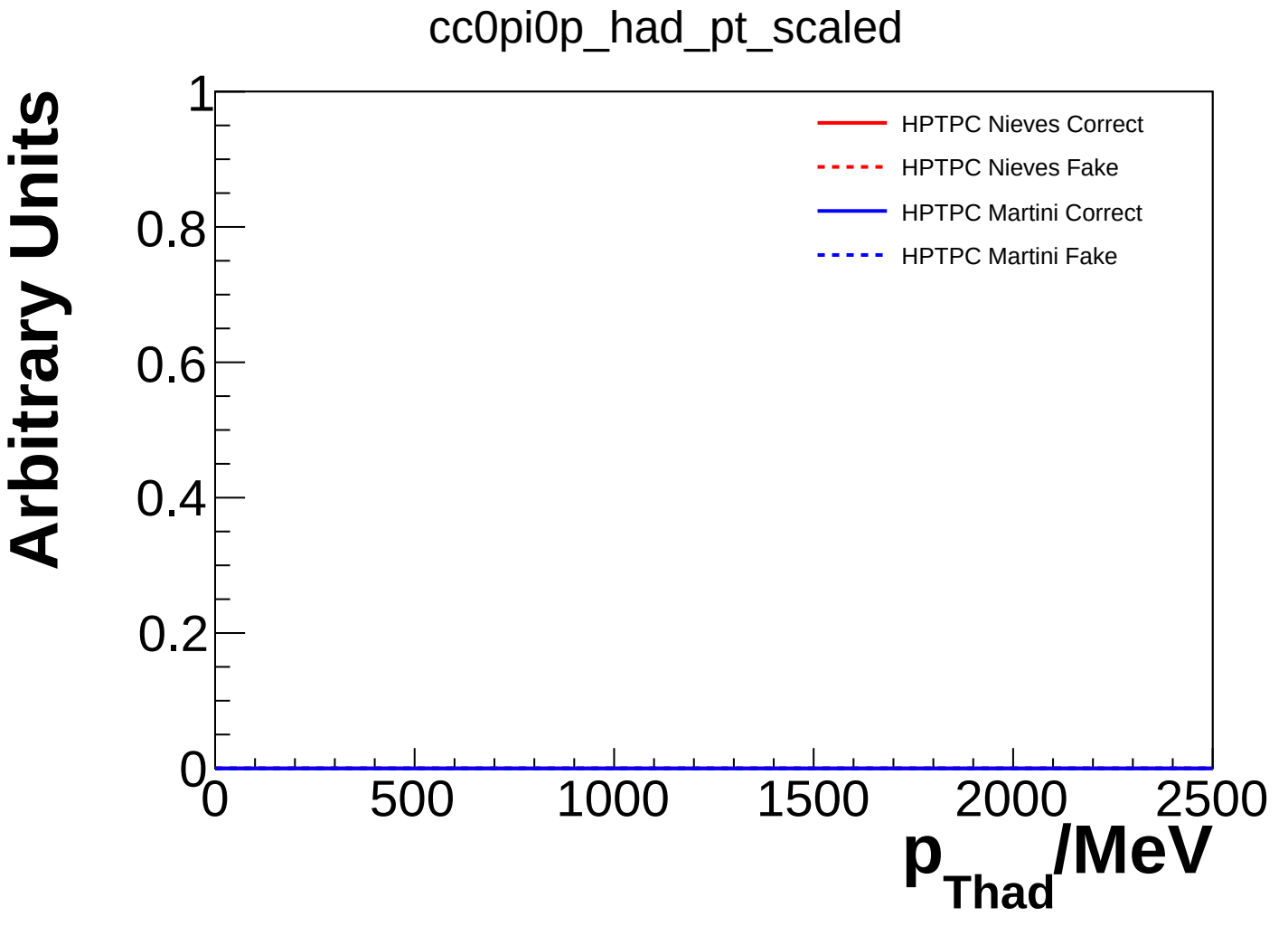
p_Thad/MeV
HPTPC Nieves
HPTPC Martini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Arbitrary Units
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HPTPC Nieves Fake
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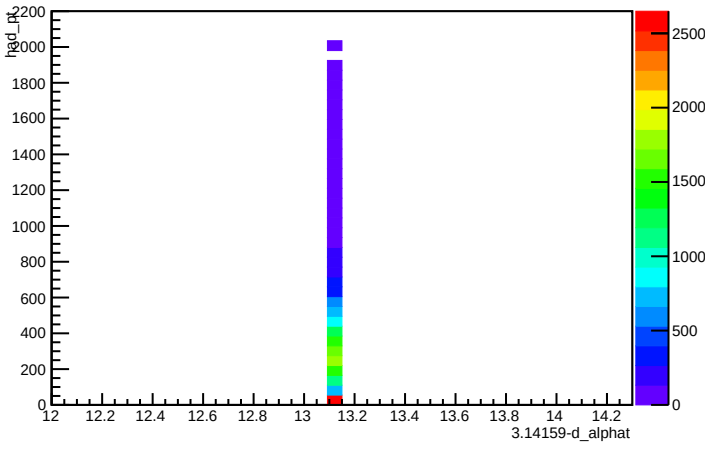
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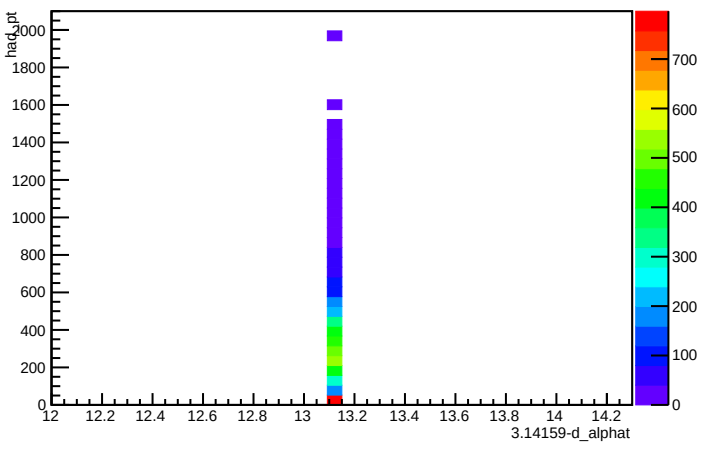
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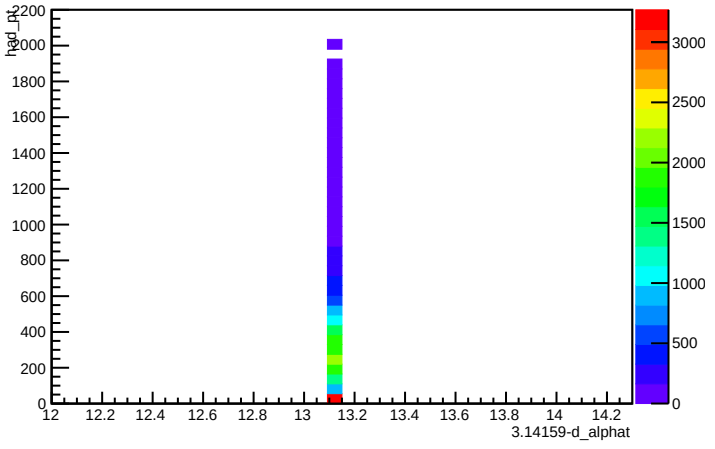
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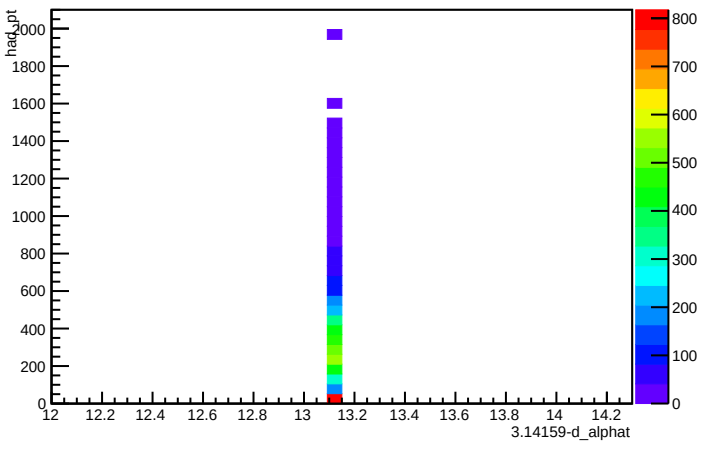
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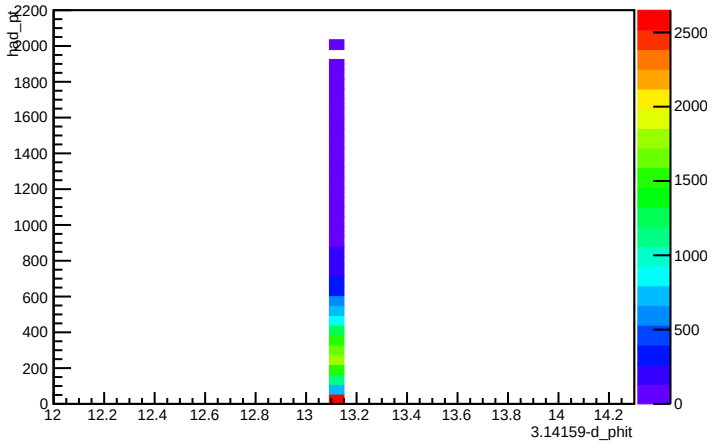
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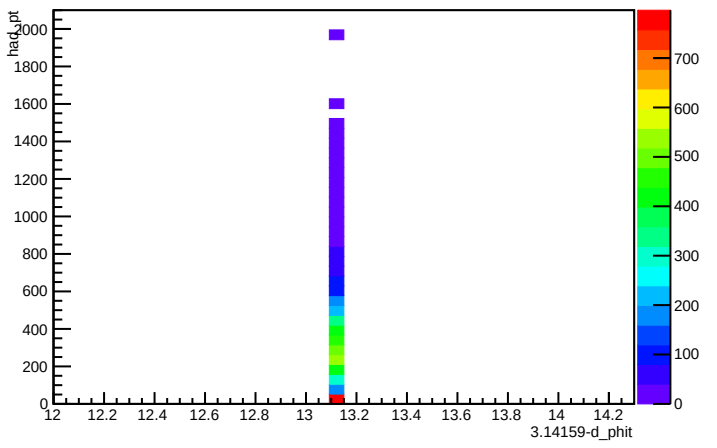
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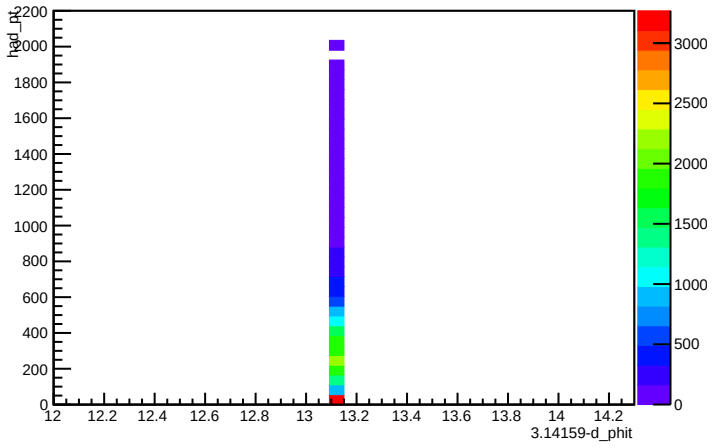
3.14159-d_phit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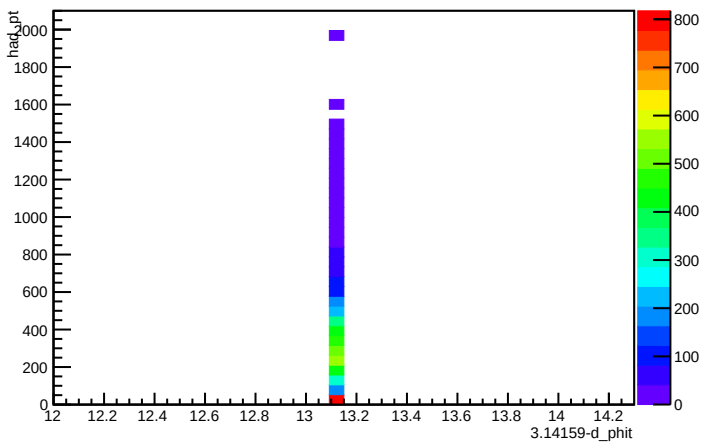
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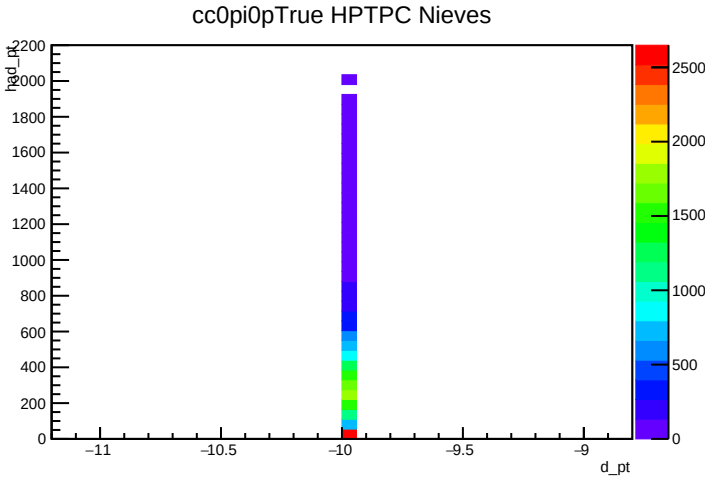
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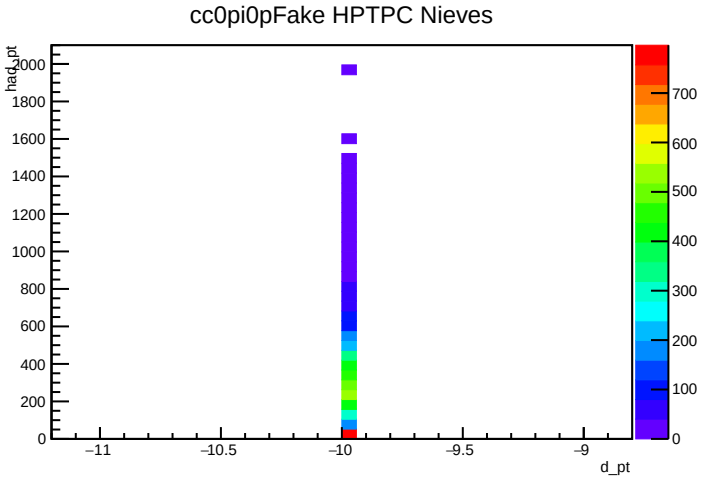
d_pt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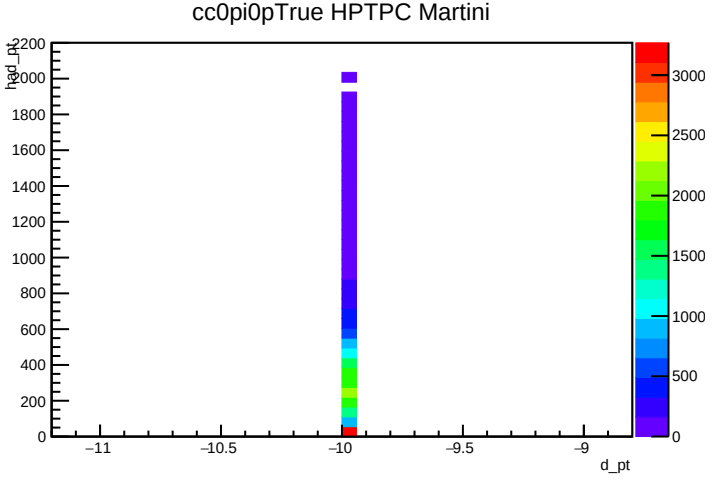
d_pt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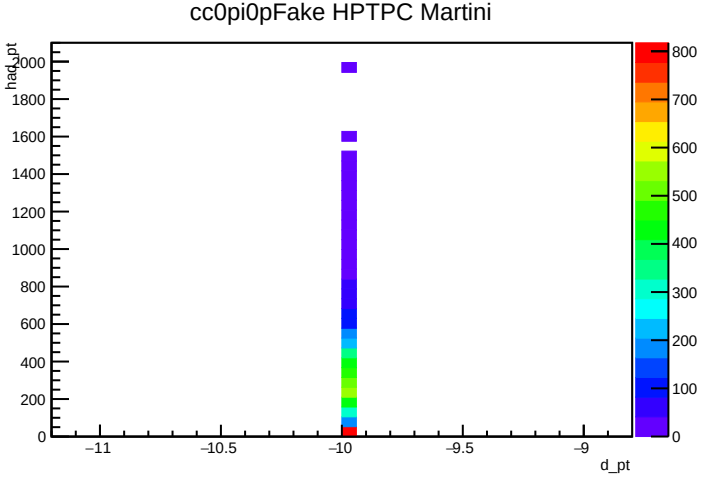
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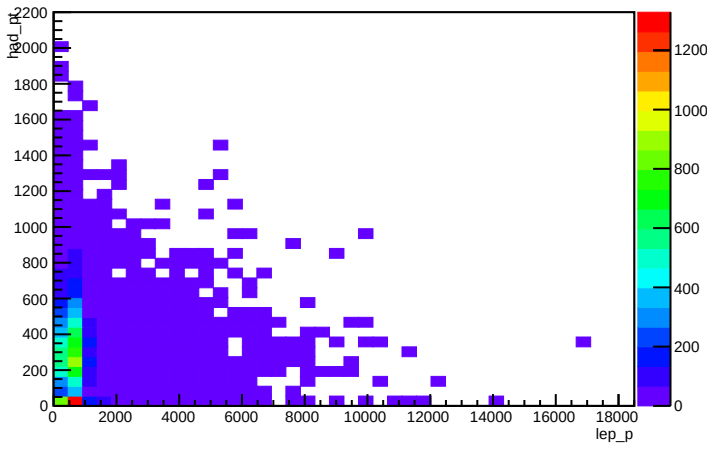
d_pt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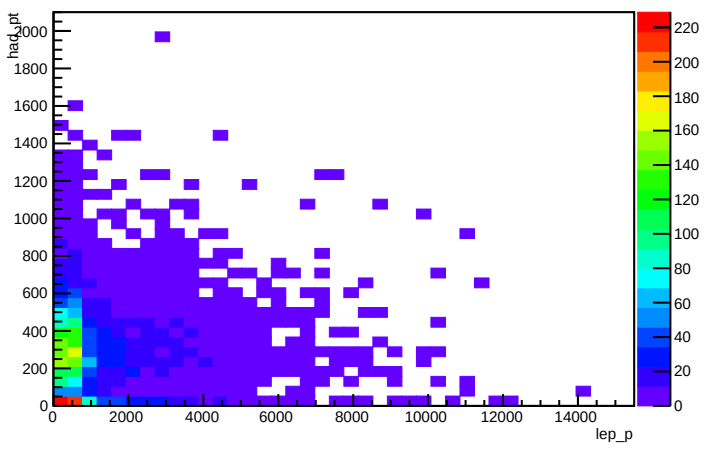
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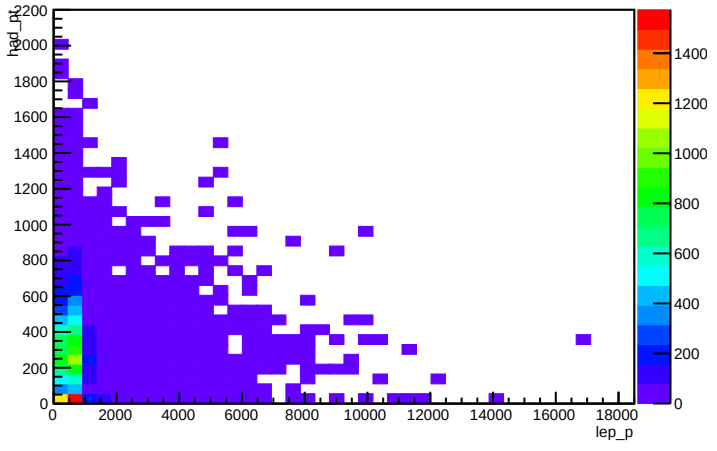
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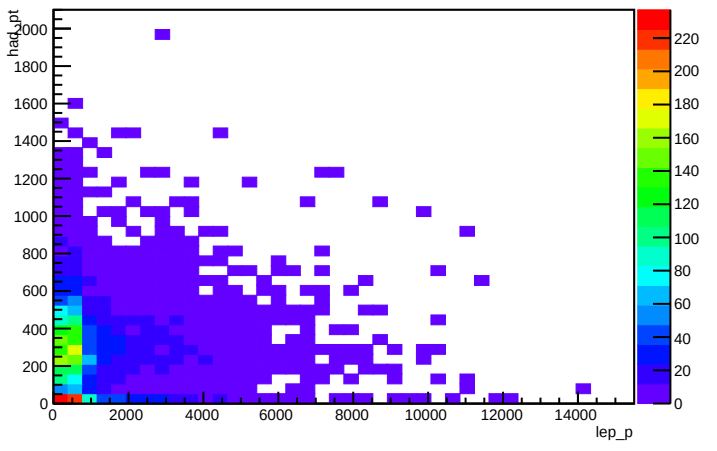
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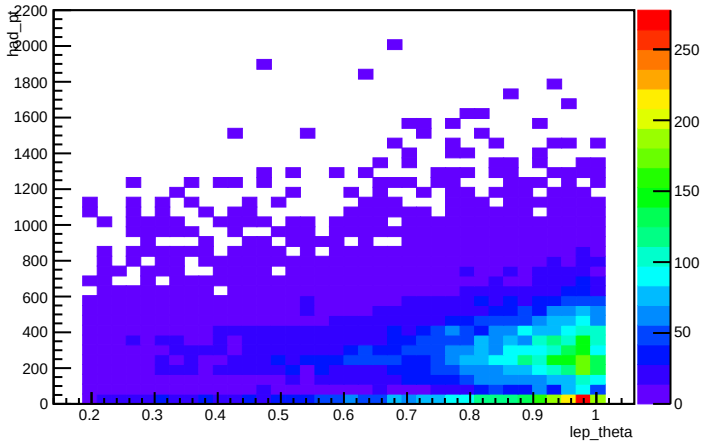
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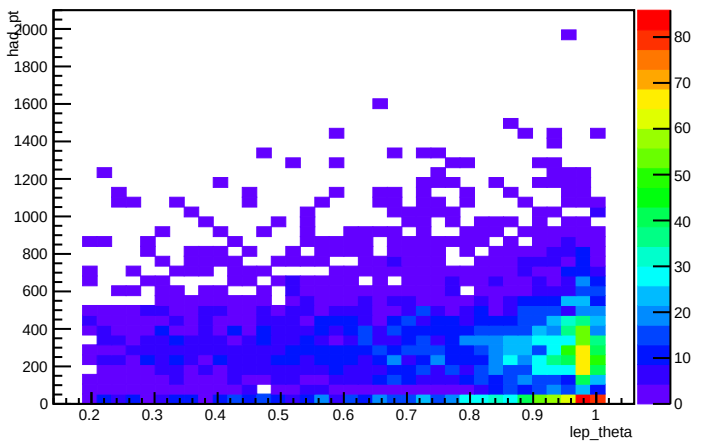
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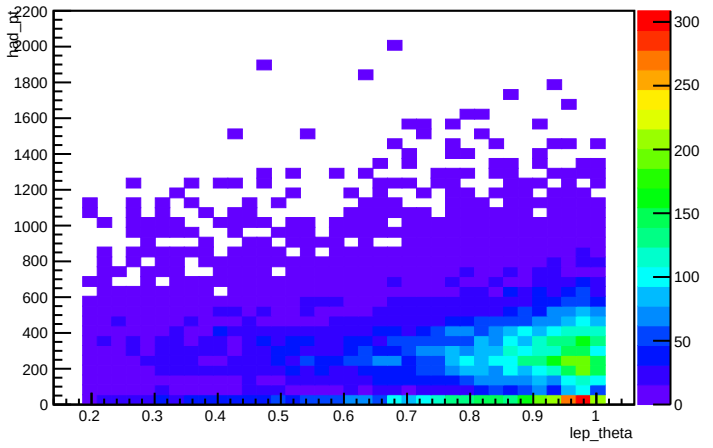
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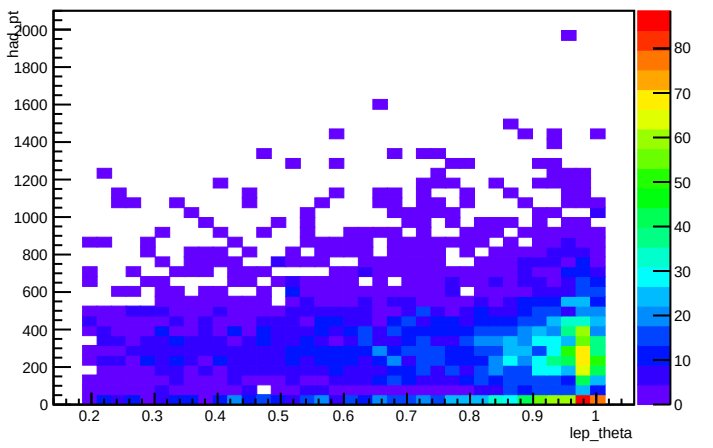
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had_pt
lep_theta

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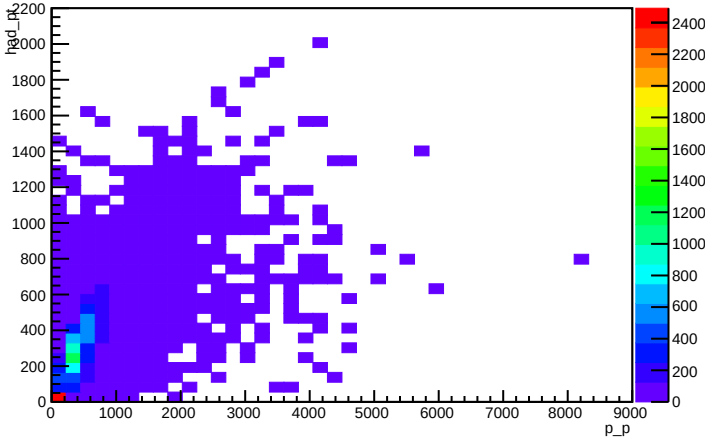

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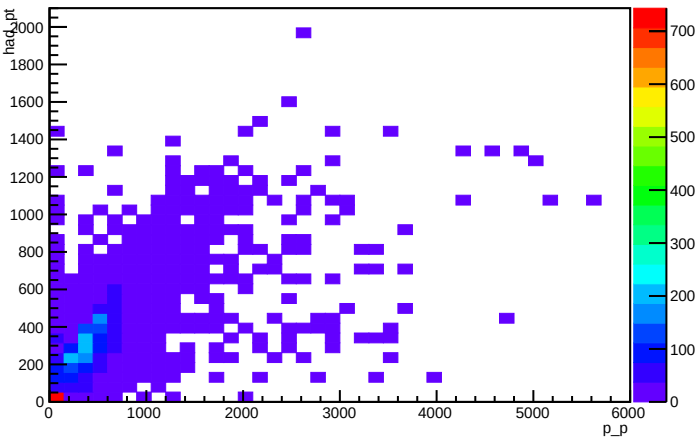

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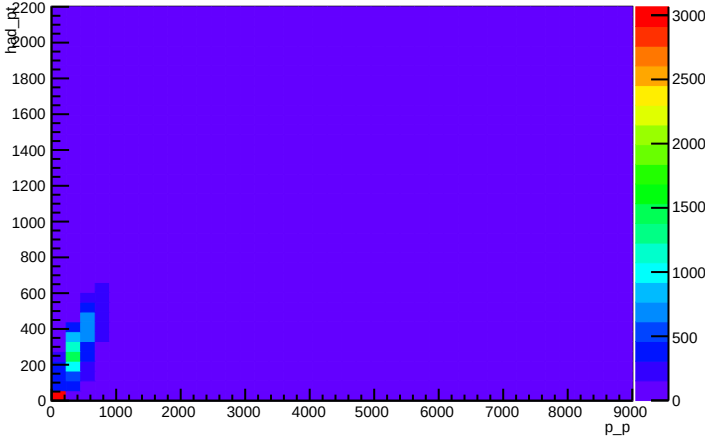

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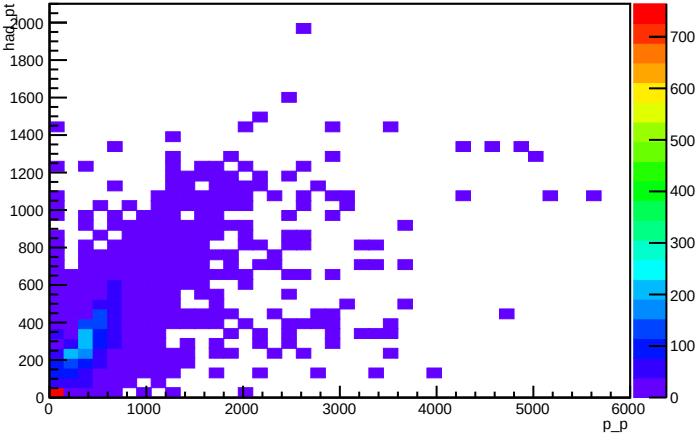

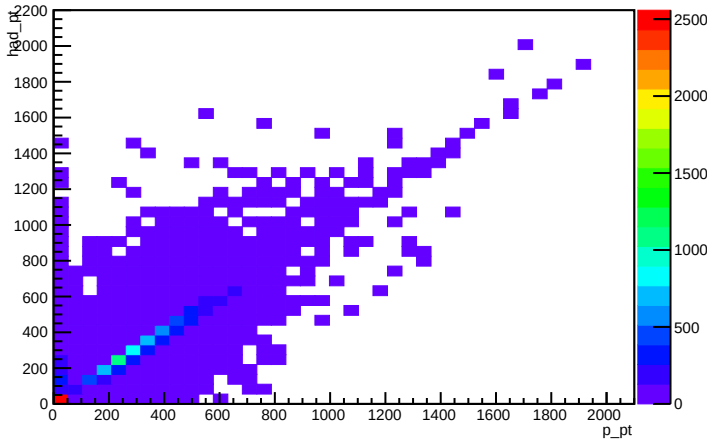
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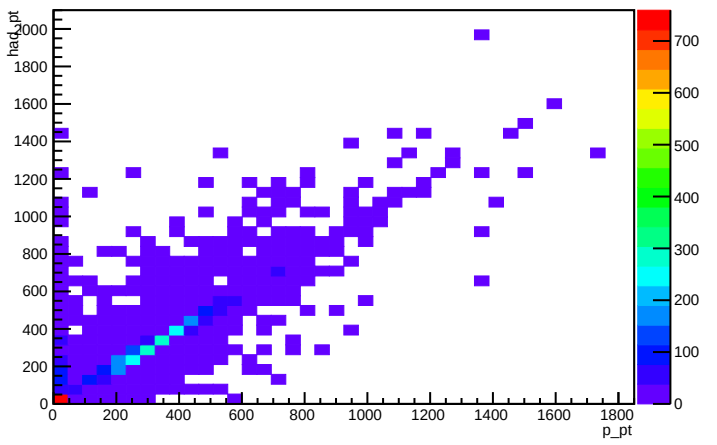
had_pt
p_pt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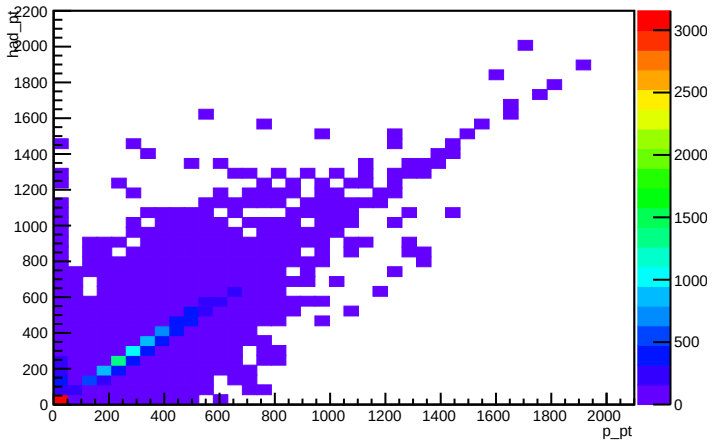
p_pt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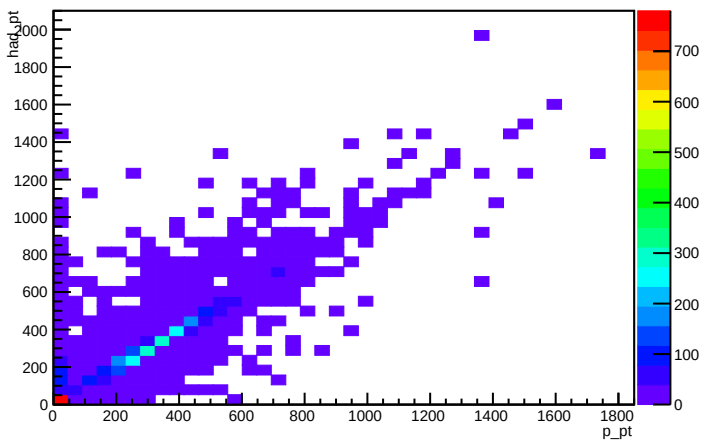
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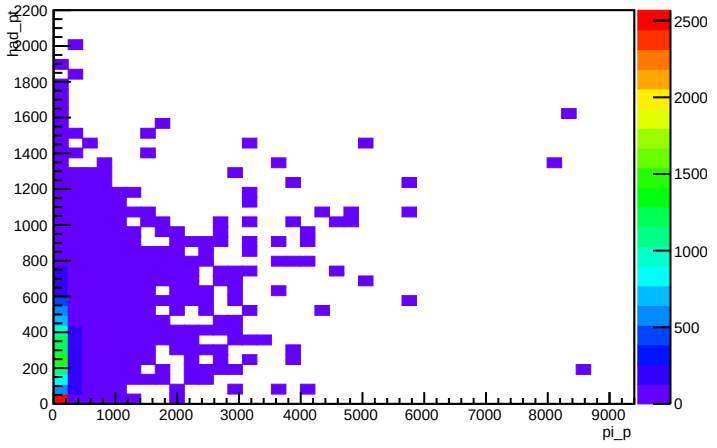
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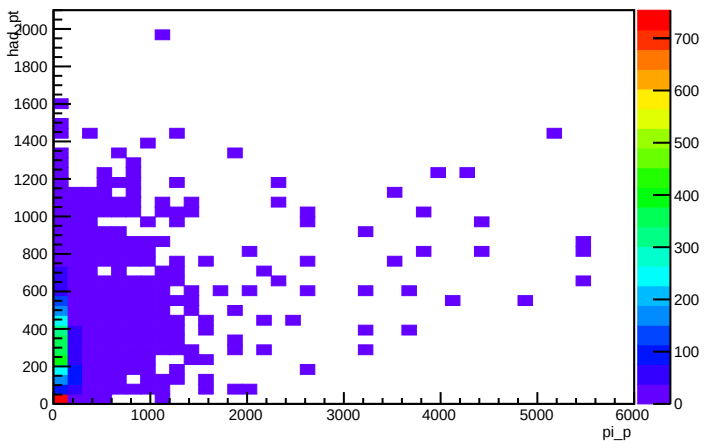
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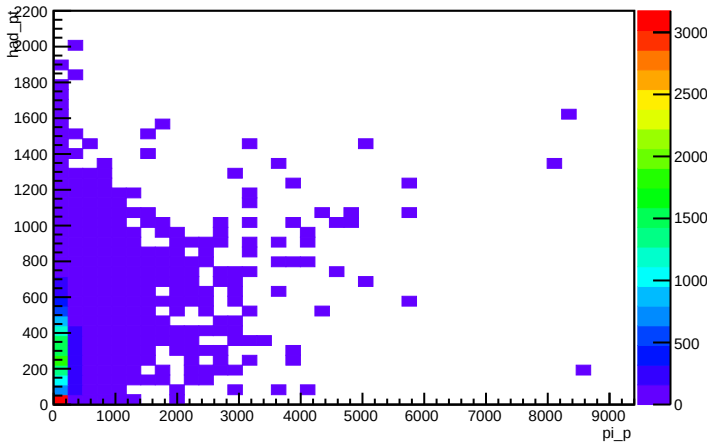
pi_p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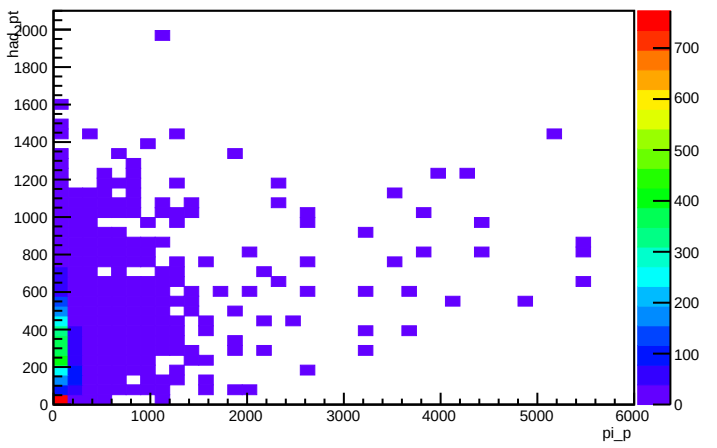
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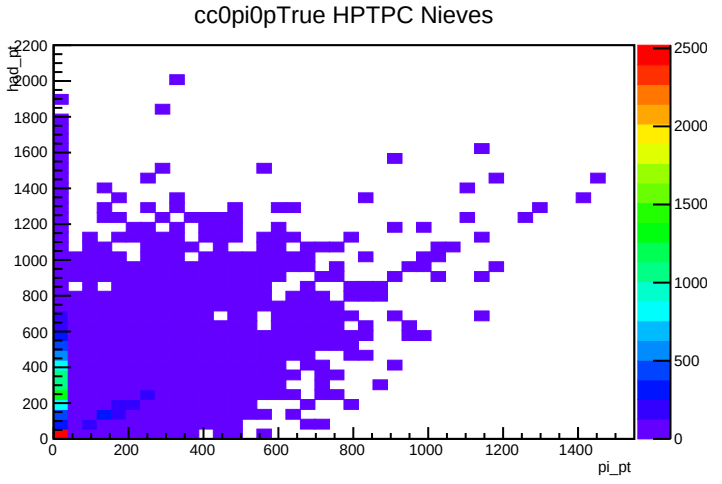
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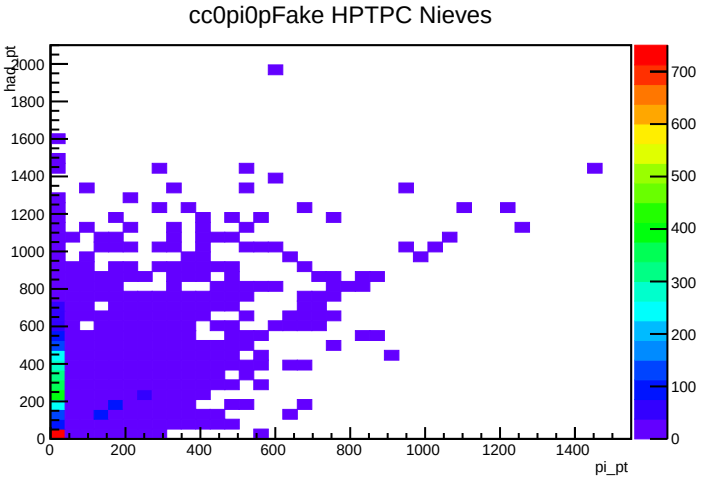
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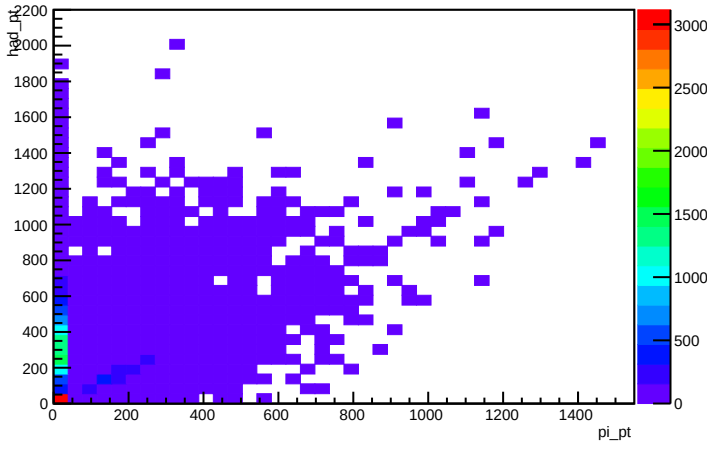
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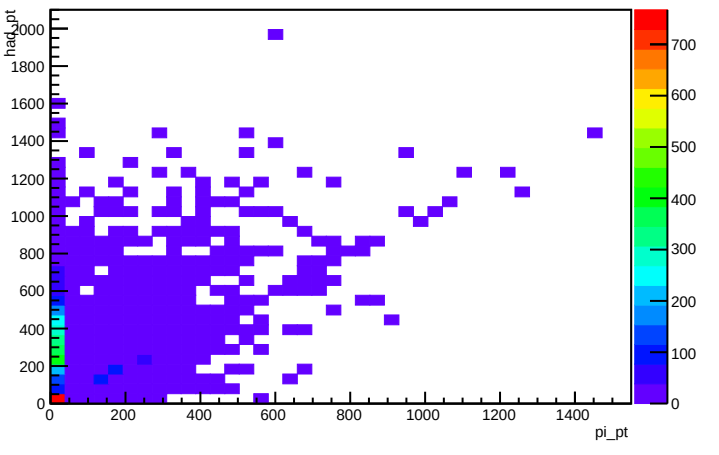
pi_pt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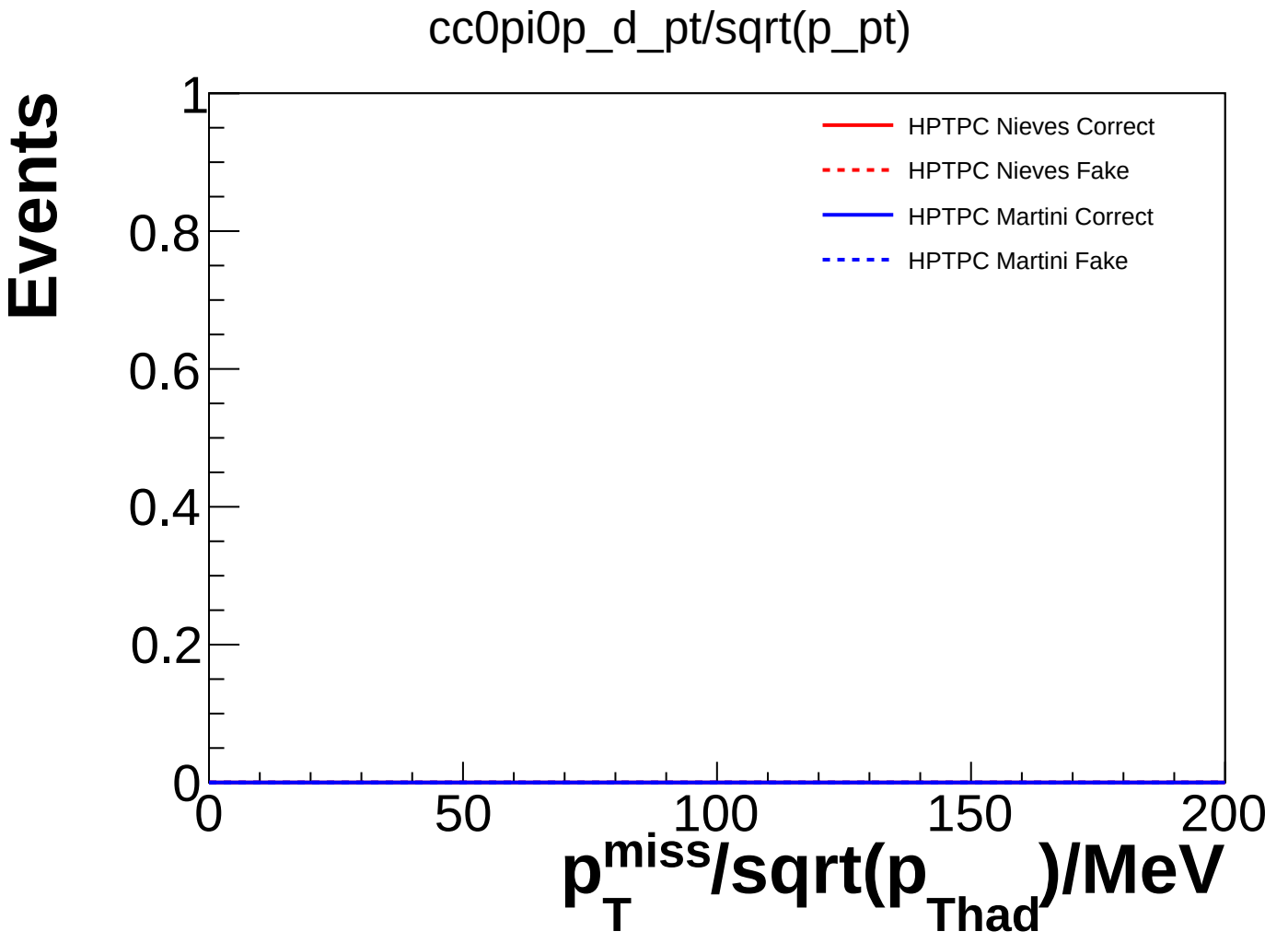
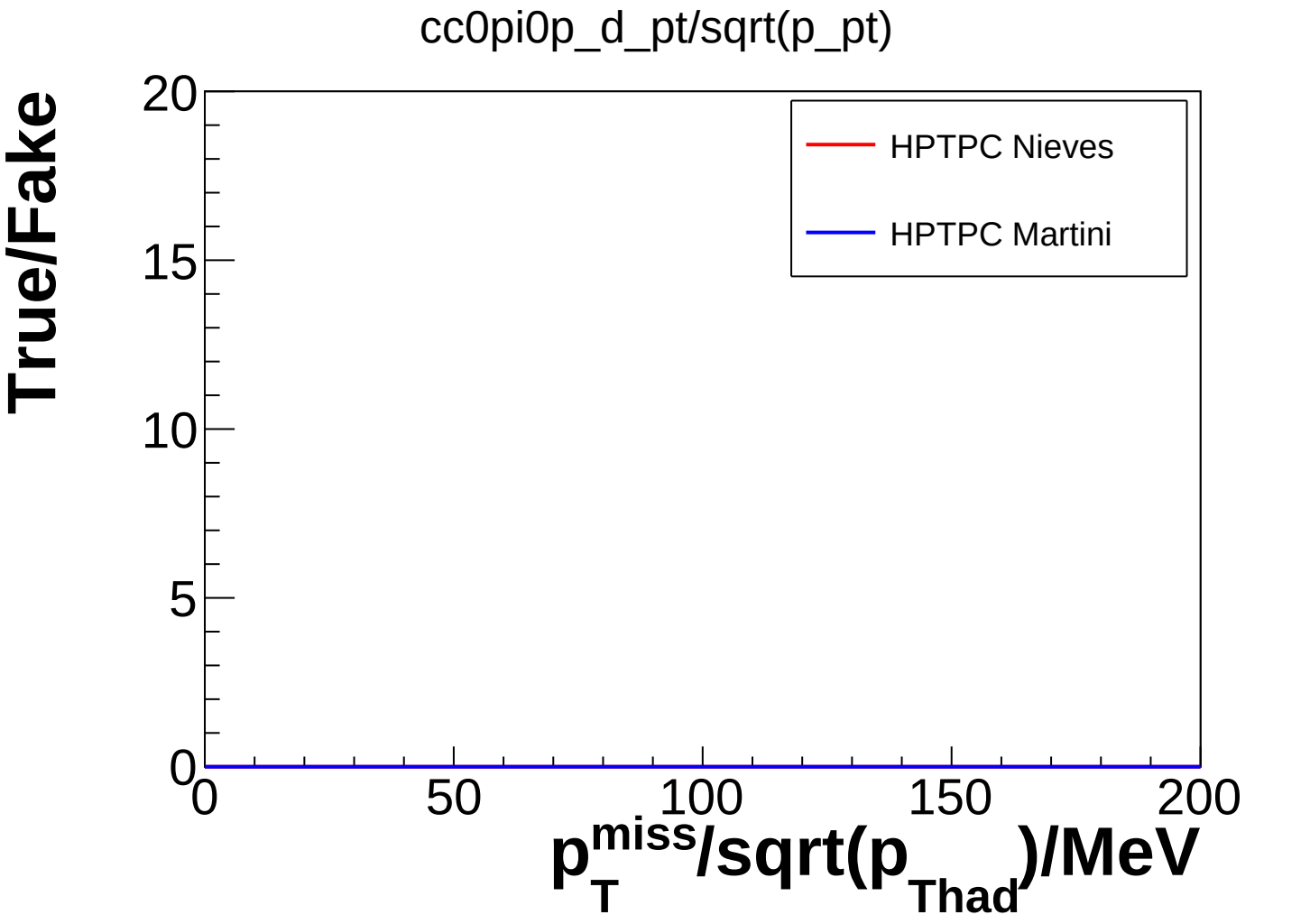
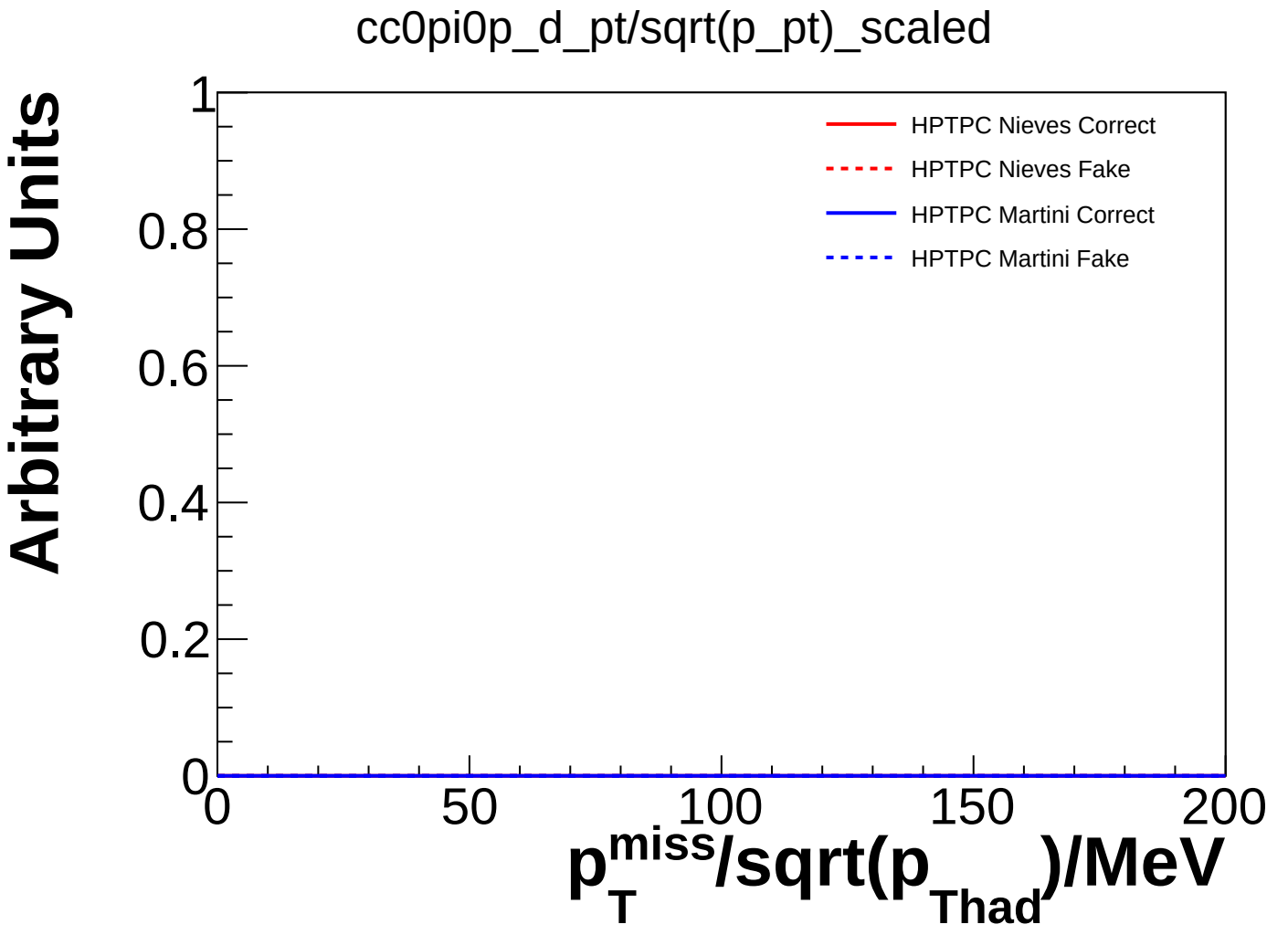
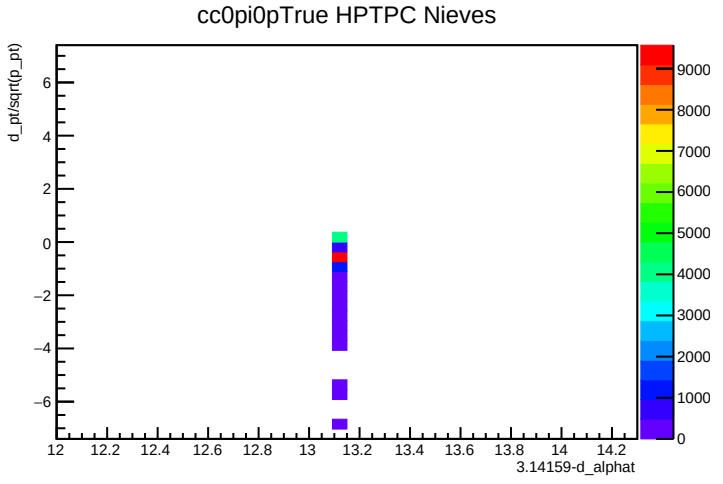
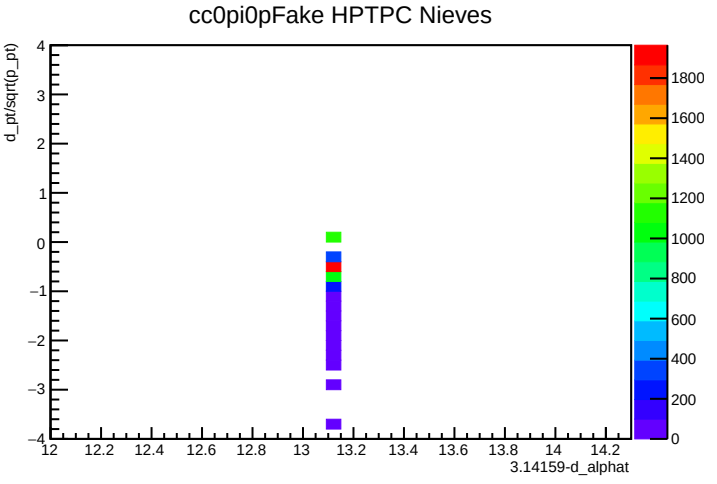
had_pt
pi_pt


cc0pi0p_d_pt/sqrt(p_pt)
Events
1
0.8
0.6
0.4
0.2
0
0
50
100
150
200
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake
p_T^miss/sqrt(p_Thad)/MeV


cc0pi0p_d_pt/sqrt(p_pt)
True/Fake
20
15
10
5
0
0
50
100
150
200
HPTPC Nieves
HPTPC Martini
p_T^miss/sqrt(p_Thad)/MeV


cc0pi0p_d_pt/sqrt(p_pt)_scaled
Arbitrary Units
1
0.8
0.6
0.4
0.2
0
0
50
100
150
200
$p_T^{miss}/sqrt(p_{Thad})/MeV$
HPTPC Nieves Correct
HPTPC Nieves Fake
HPTPC Martini Correct
HPTPC Martini Fake


cc0pi0pTrue HPTPC Nieves
d_pt/sqrt(p_pt)
3.14159-d_alphat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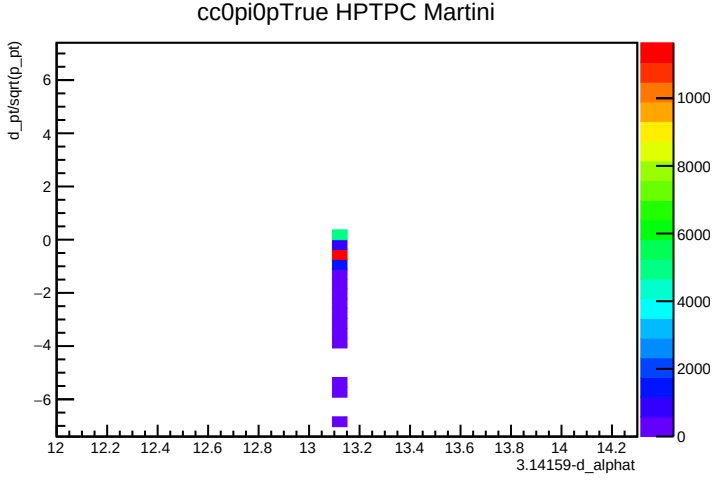
d_pt/sqrt(p_pt)
3.14159-d_alphat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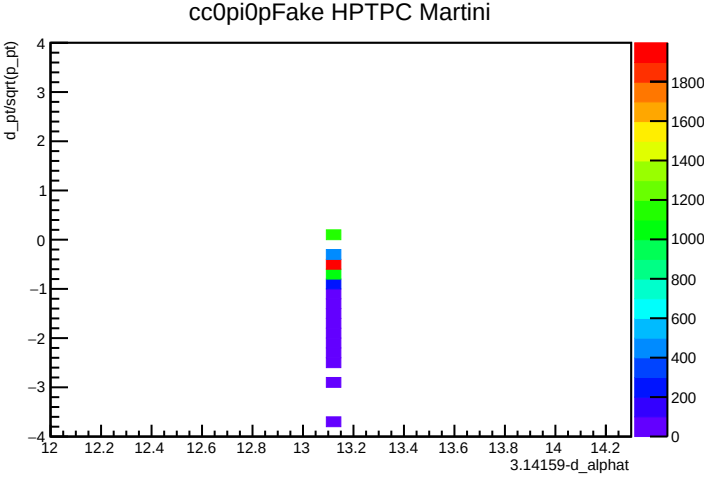
d_pt/sqrt(p_pt)
3.14159-d_alphat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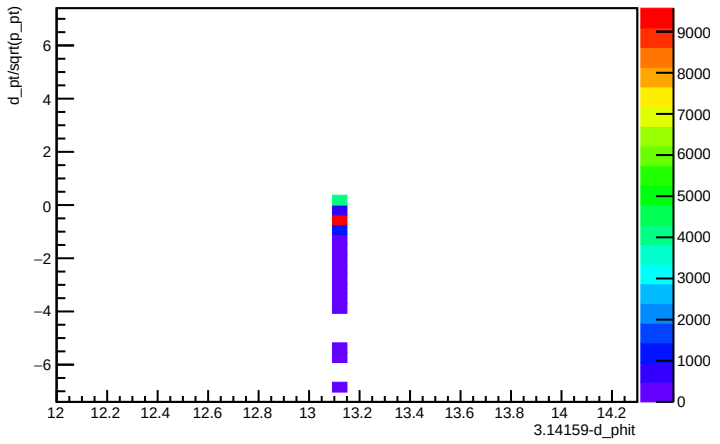
d_pt/sqrt(p_pt)
3.14159-d_alphat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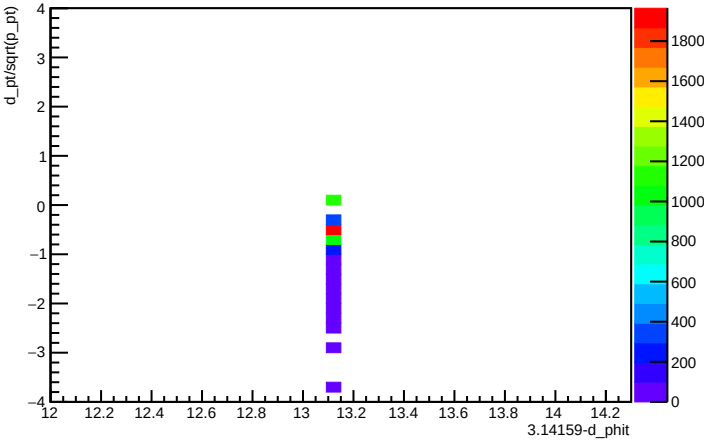
d_pt/sqrt(p_pt)
3.14159-d_phit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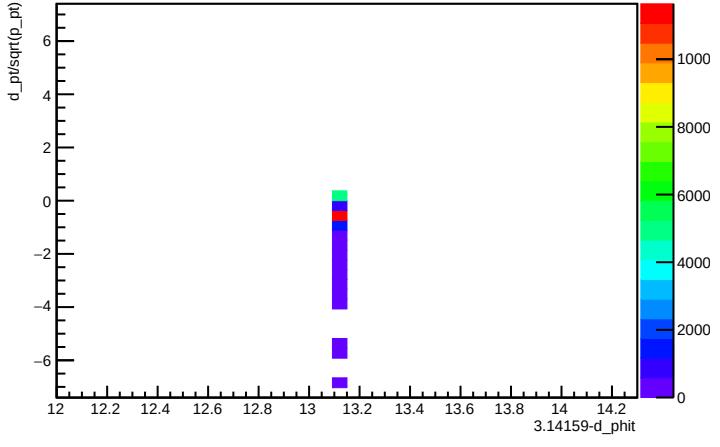
d_pt/sqrt(p_pt)
3.14159-d_phit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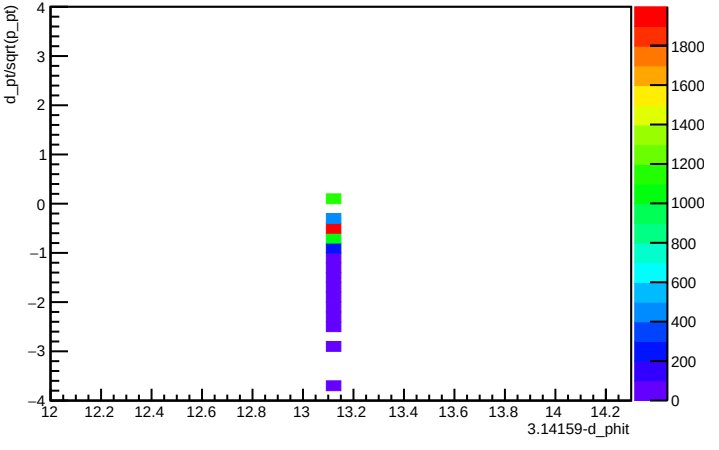
d_pt/sqrt(p_pt)
3.14159-d_phit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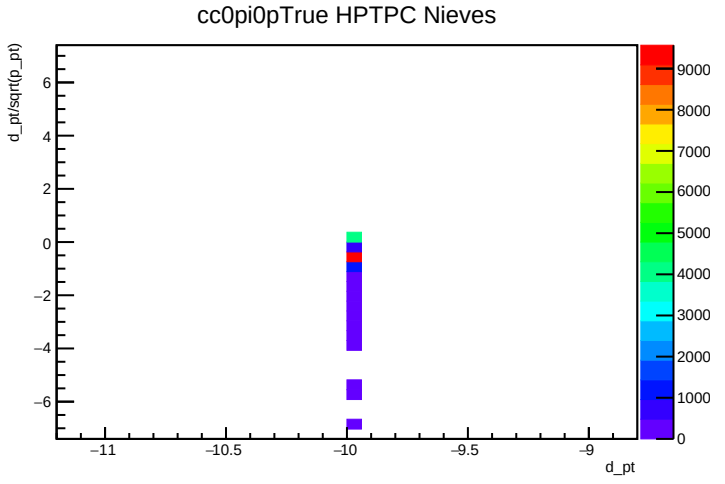
d_pt/sqrt(p_pt)
3.14159-d_phit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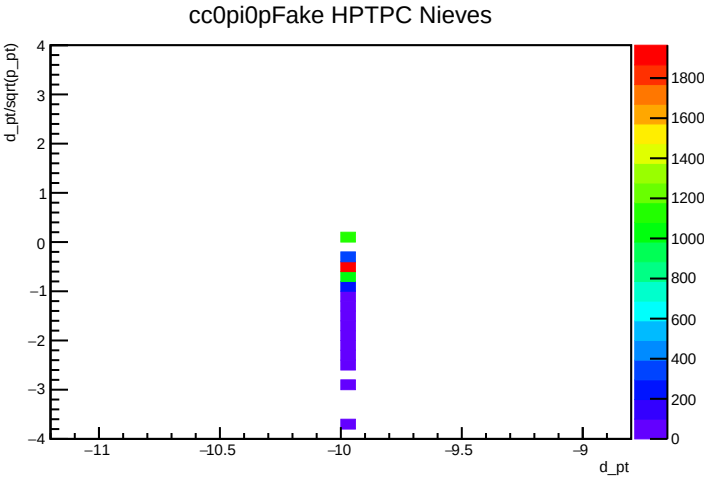
d_pt/sqrt(p_pt)
d_pt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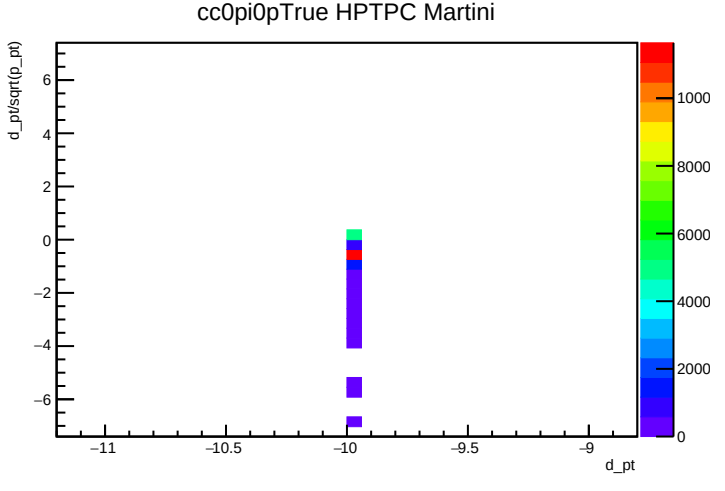
d_pt/sqrt(p_pt)
d_pt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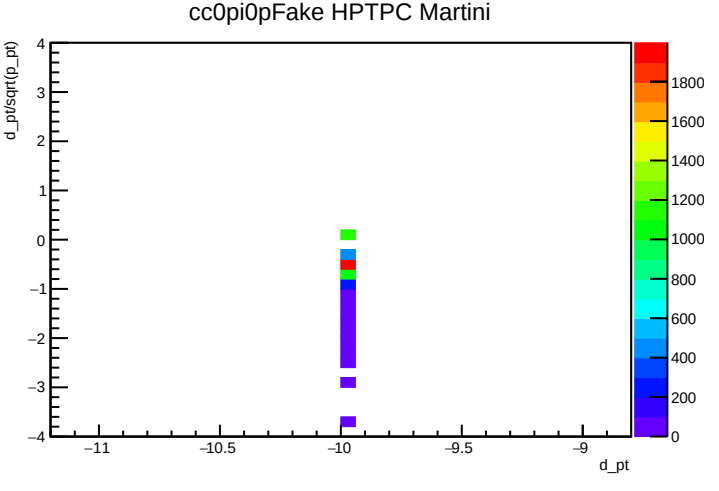
d_pt/sqrt(p_pt)
d_pt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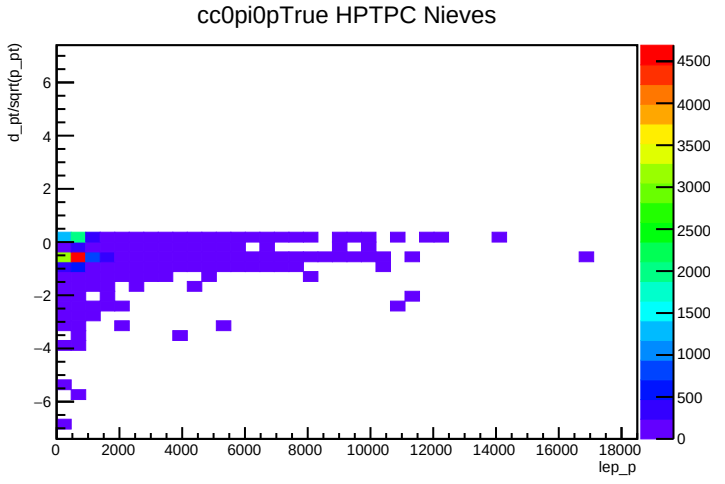
d_pt/sqrt(p_pt)
d_pt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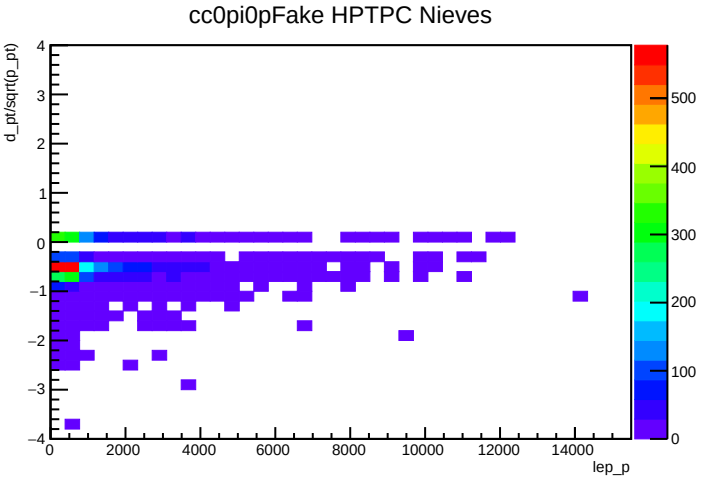
lep_p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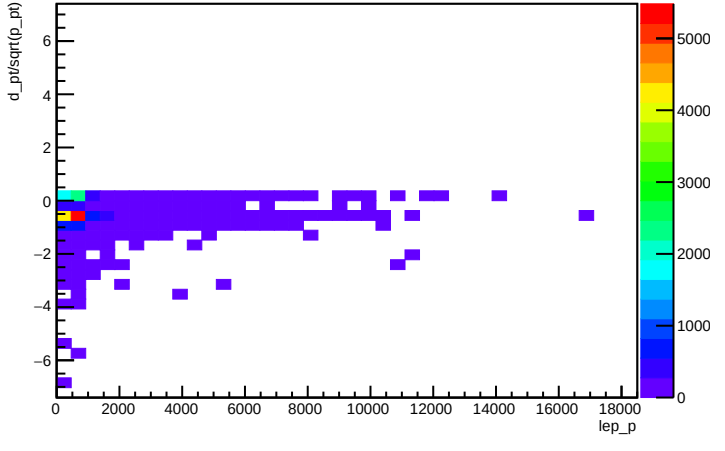
lep_p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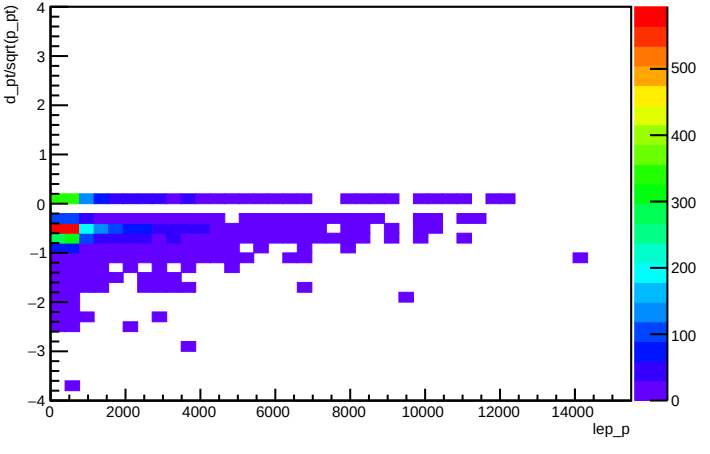
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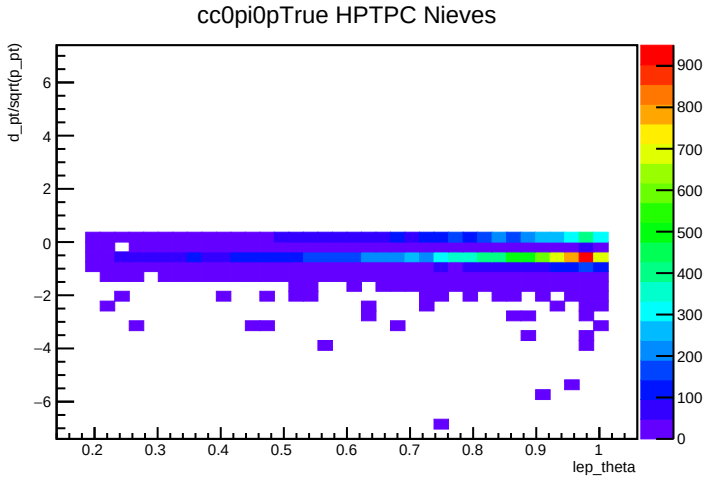
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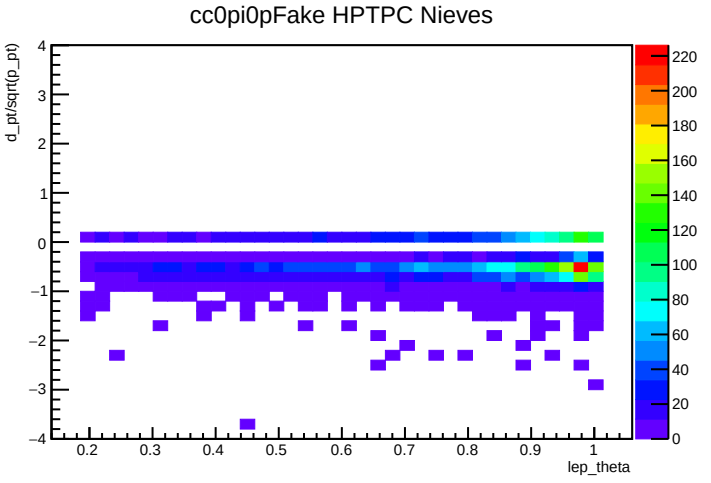
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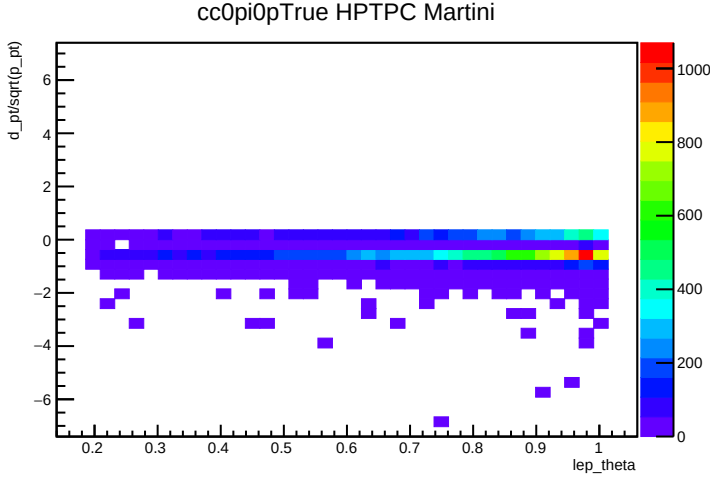
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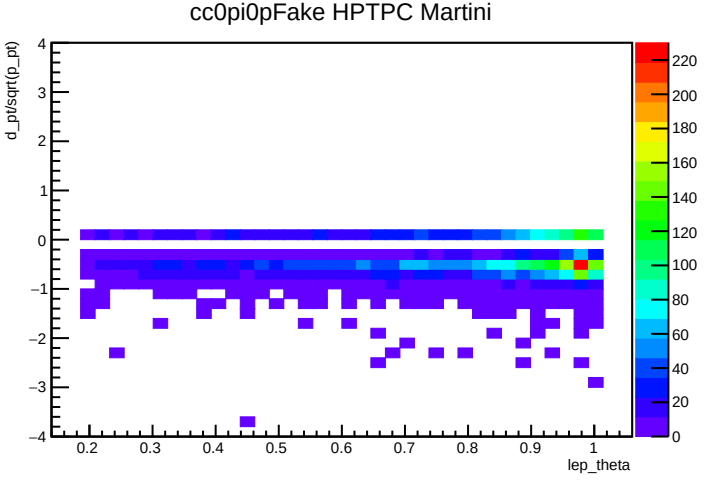
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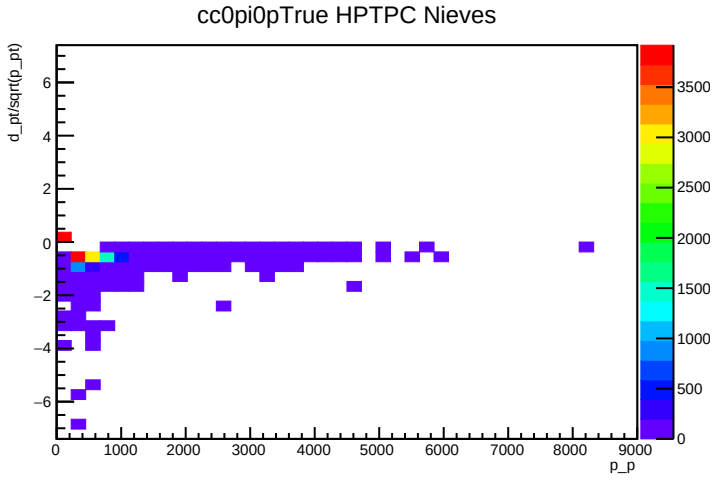
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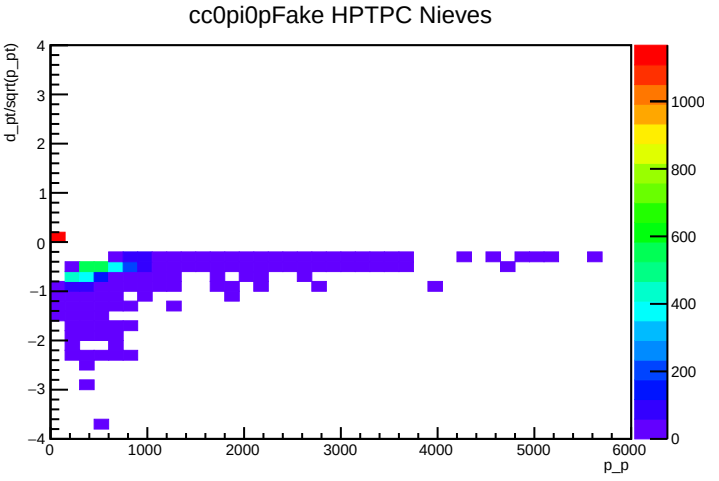
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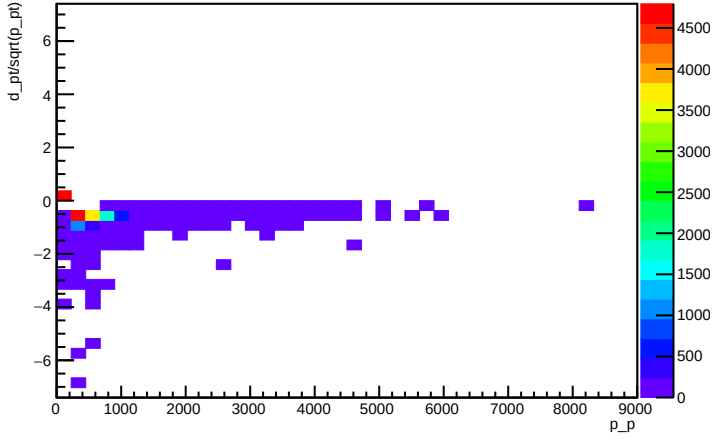
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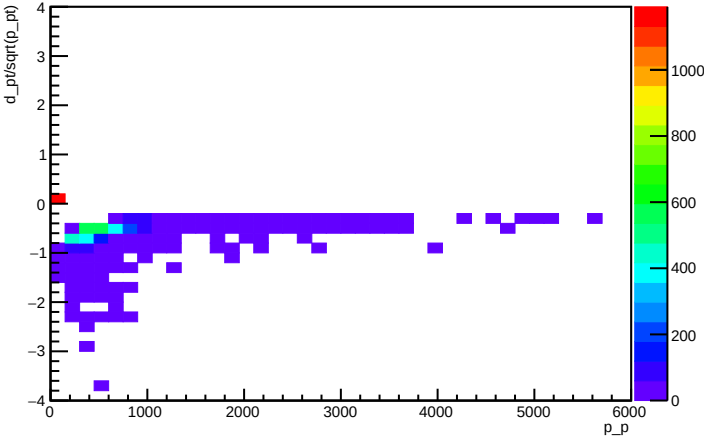
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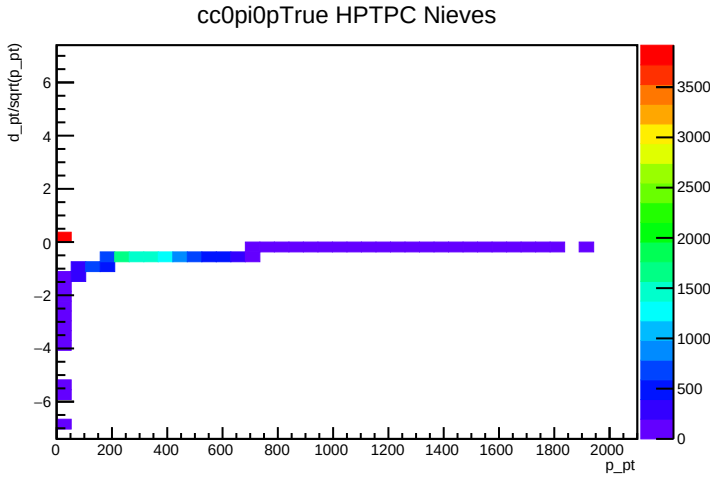
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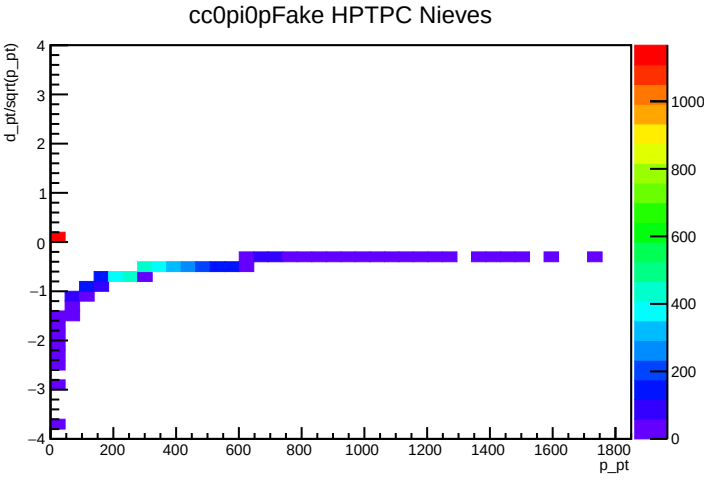
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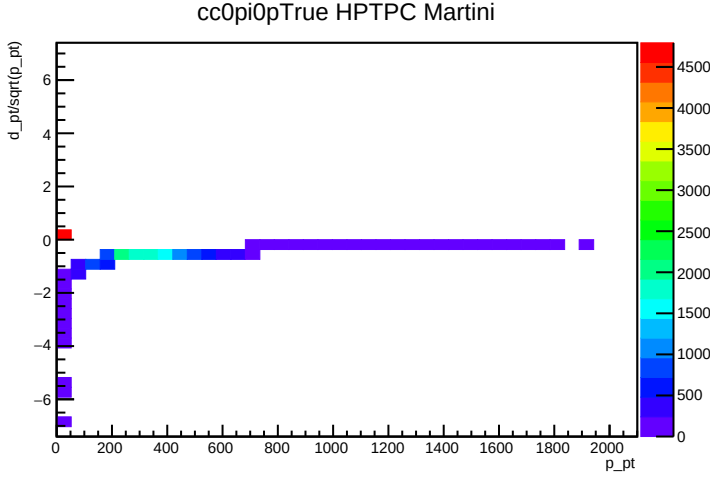
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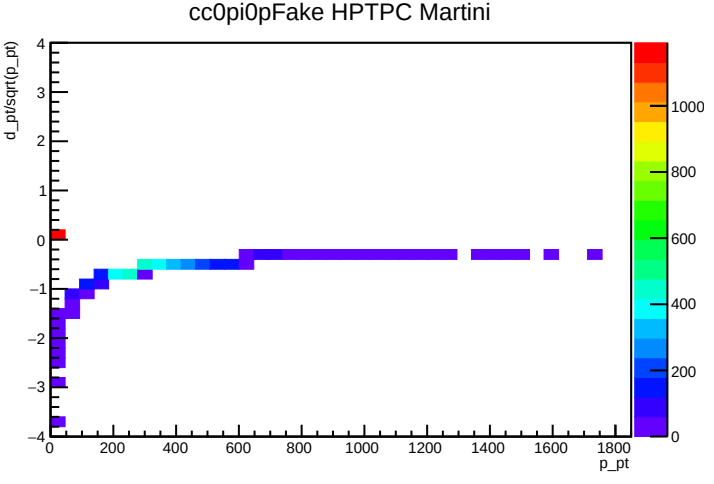
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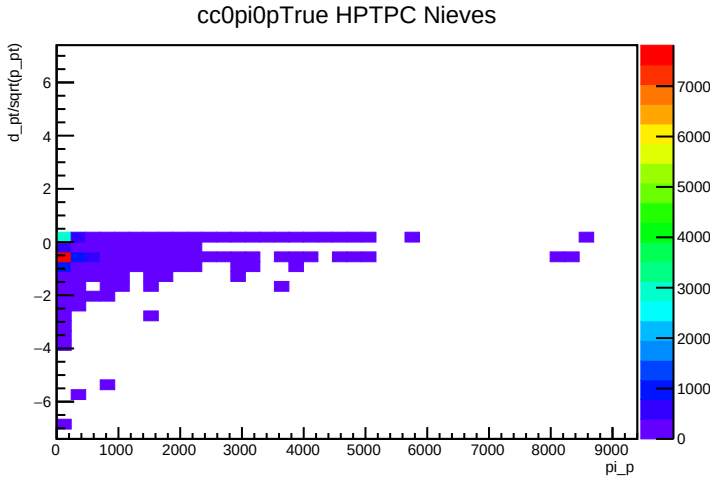
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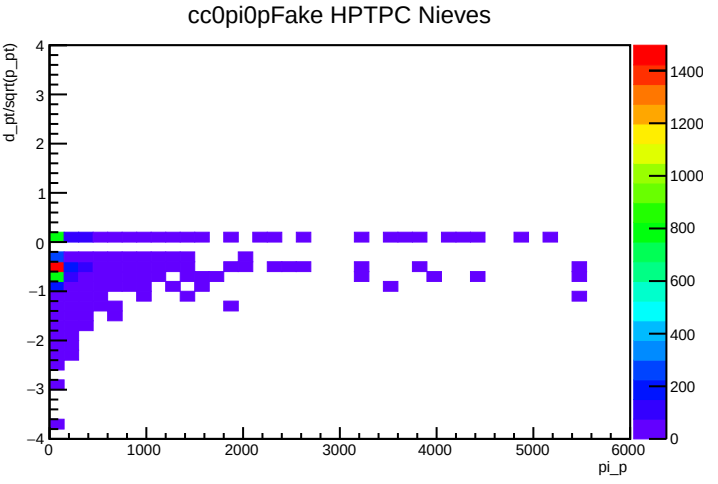
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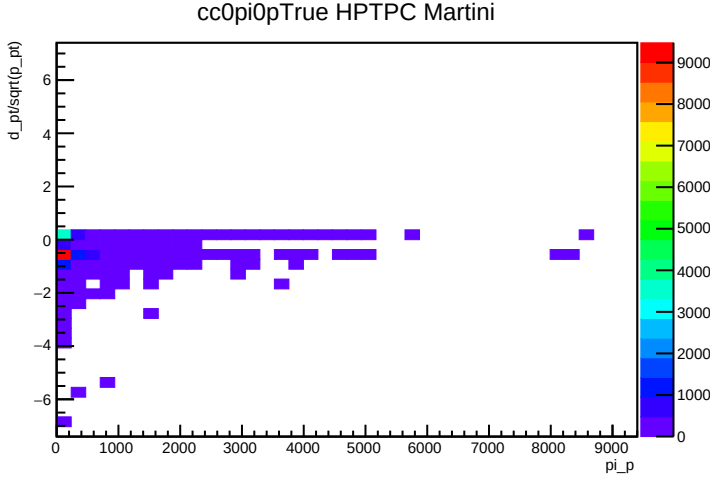
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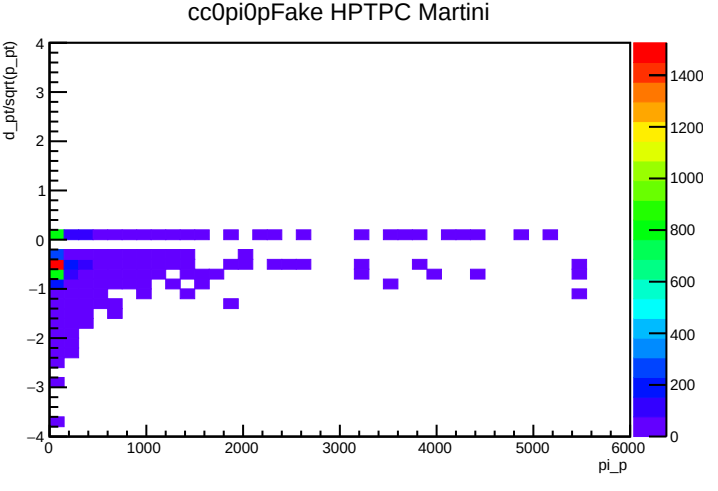
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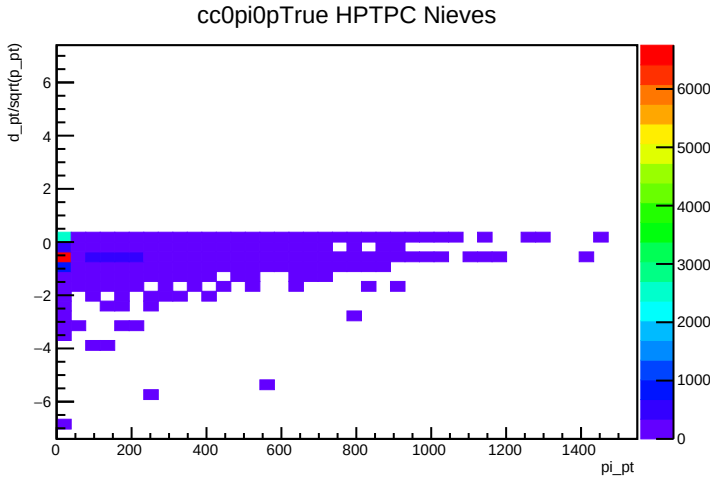
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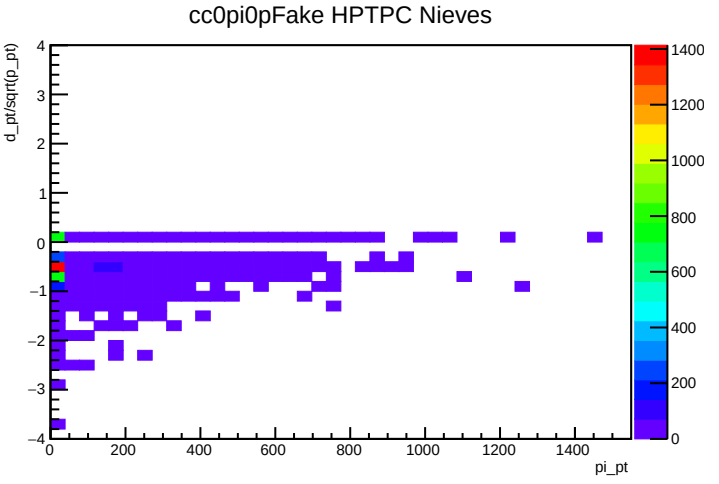
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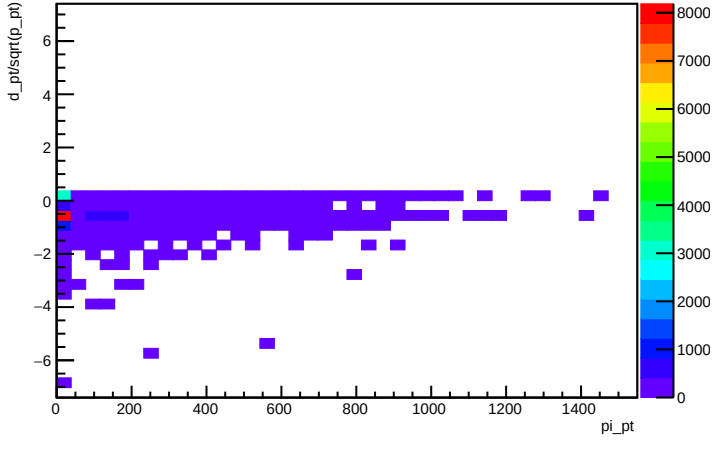
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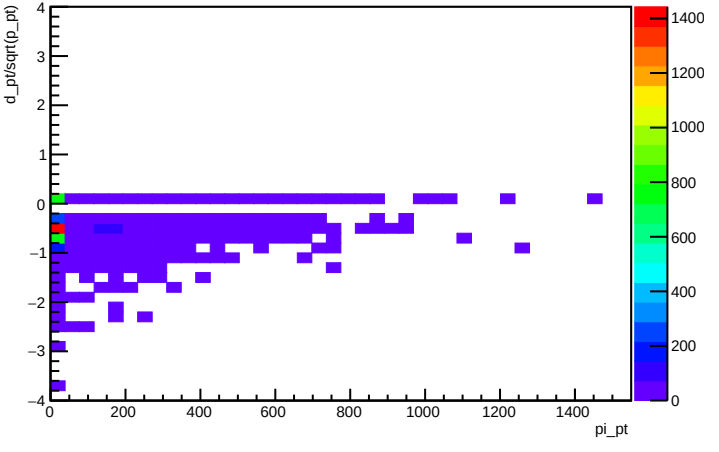
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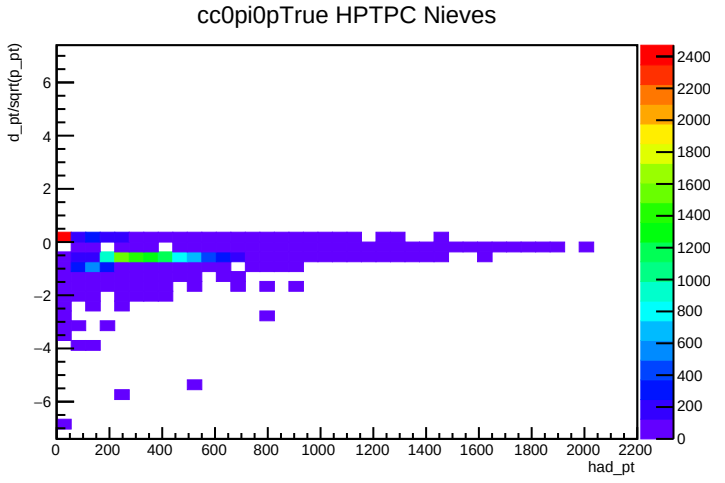
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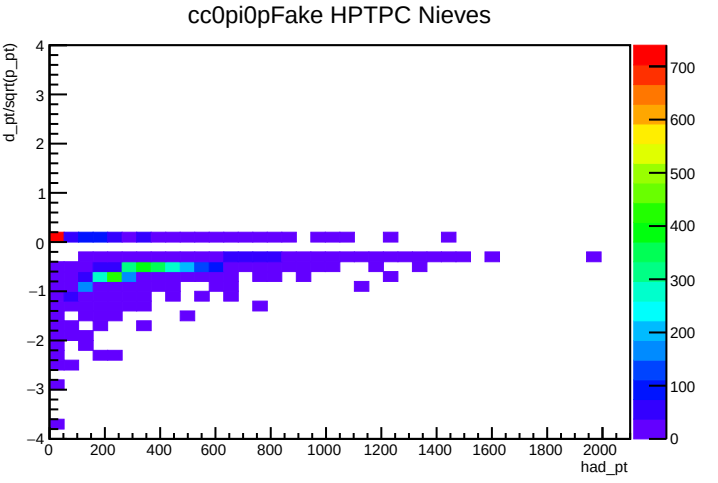
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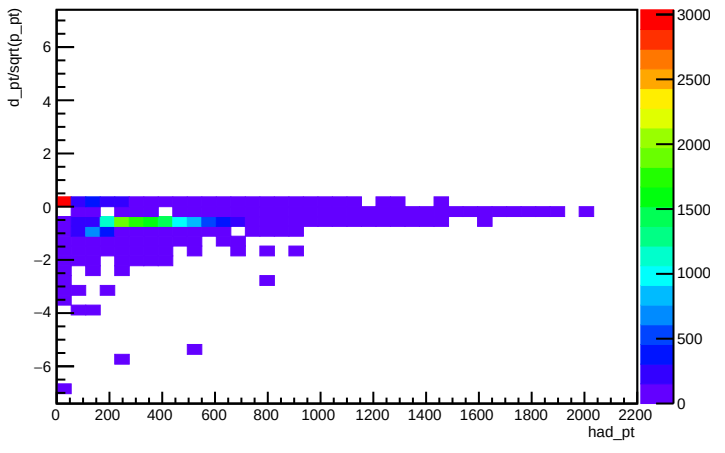
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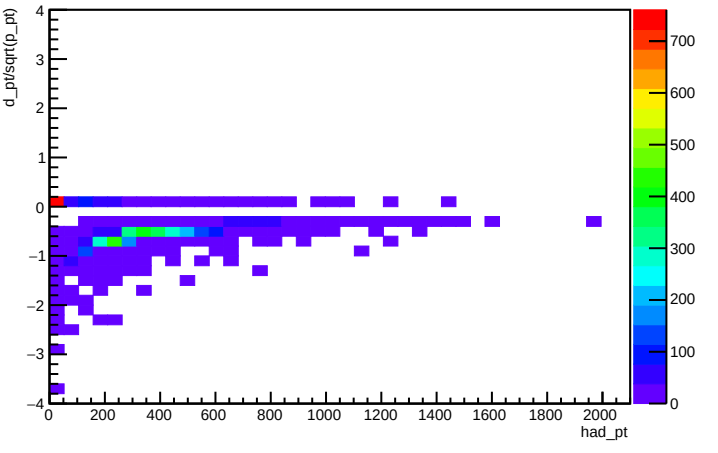
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