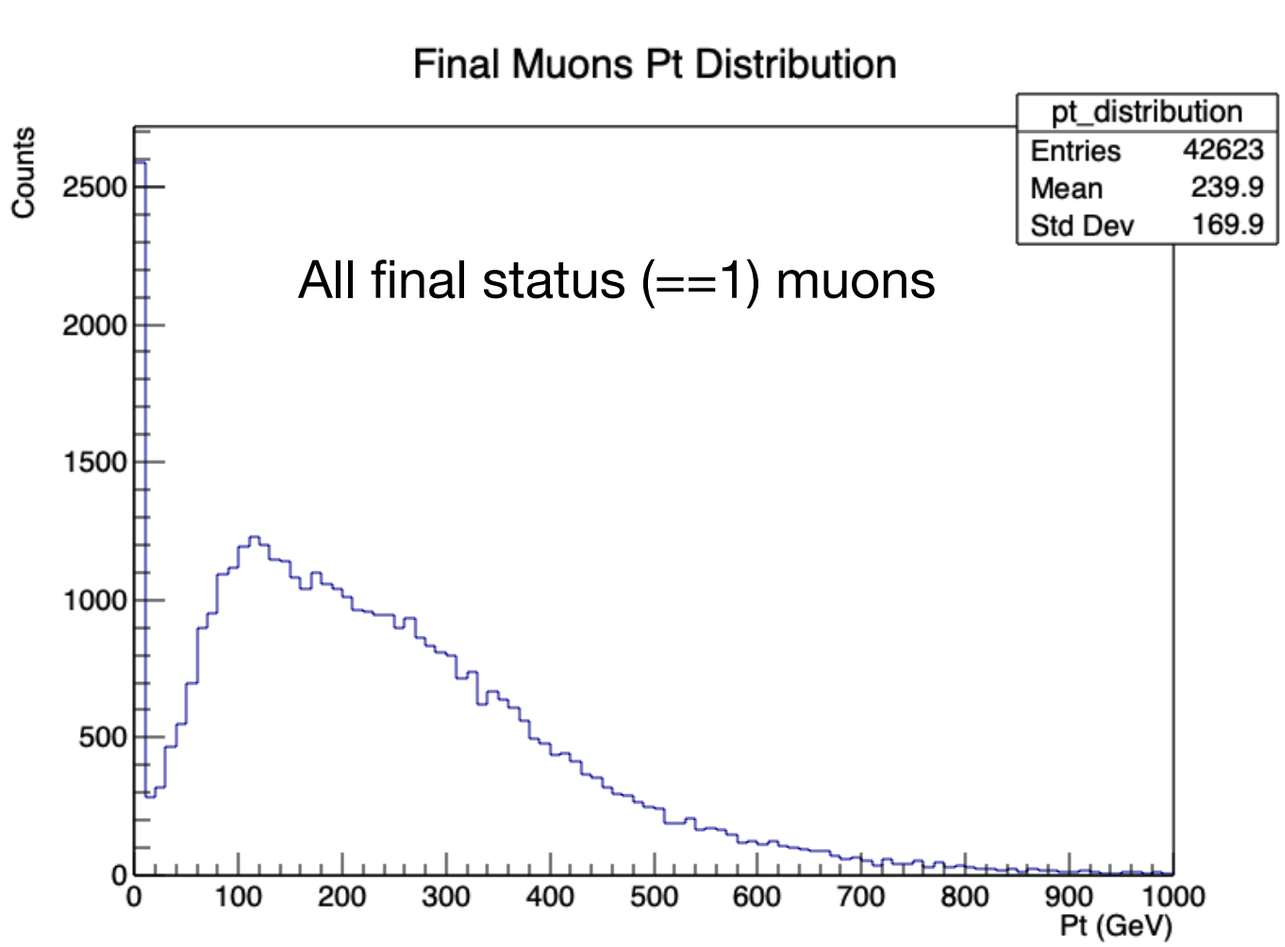
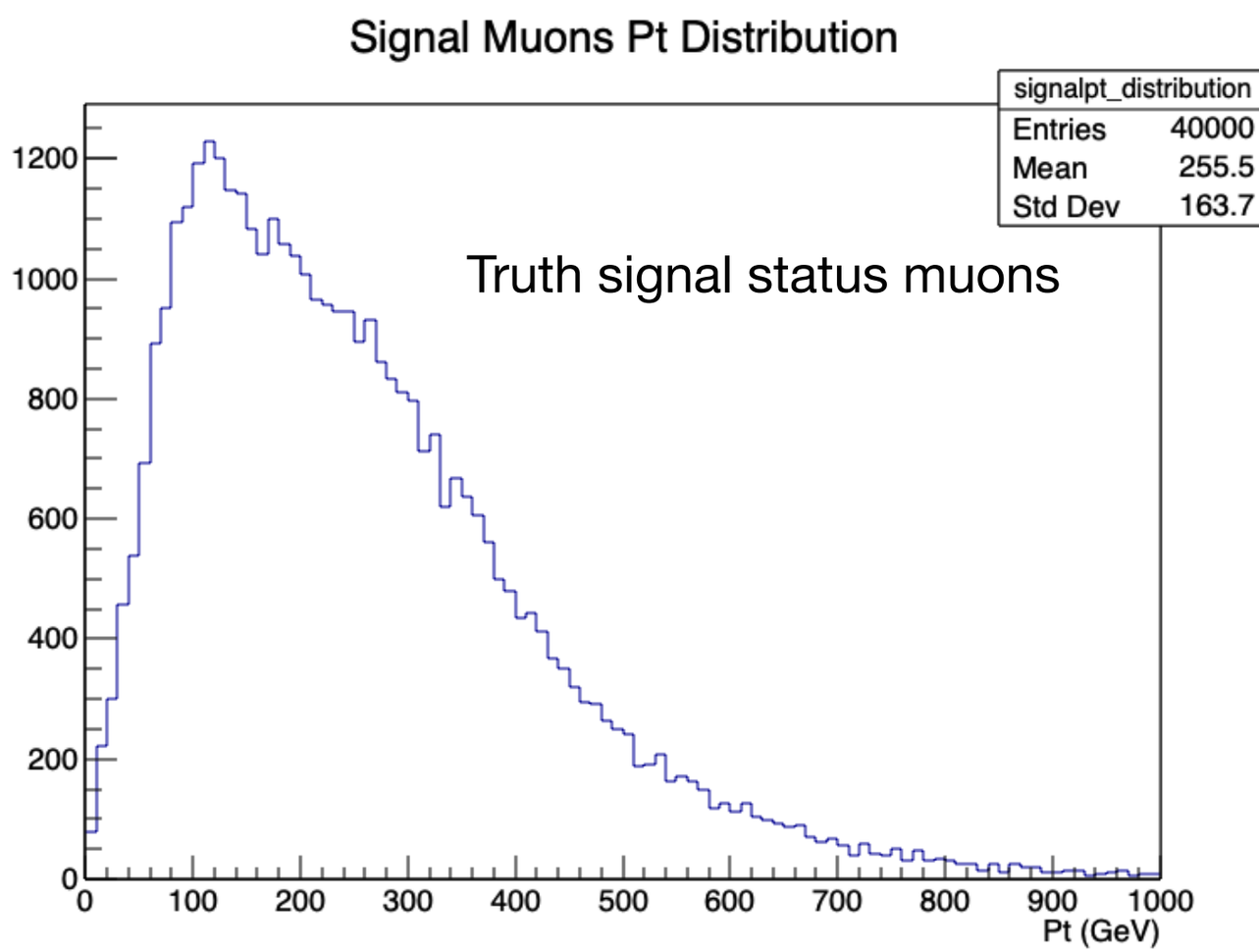
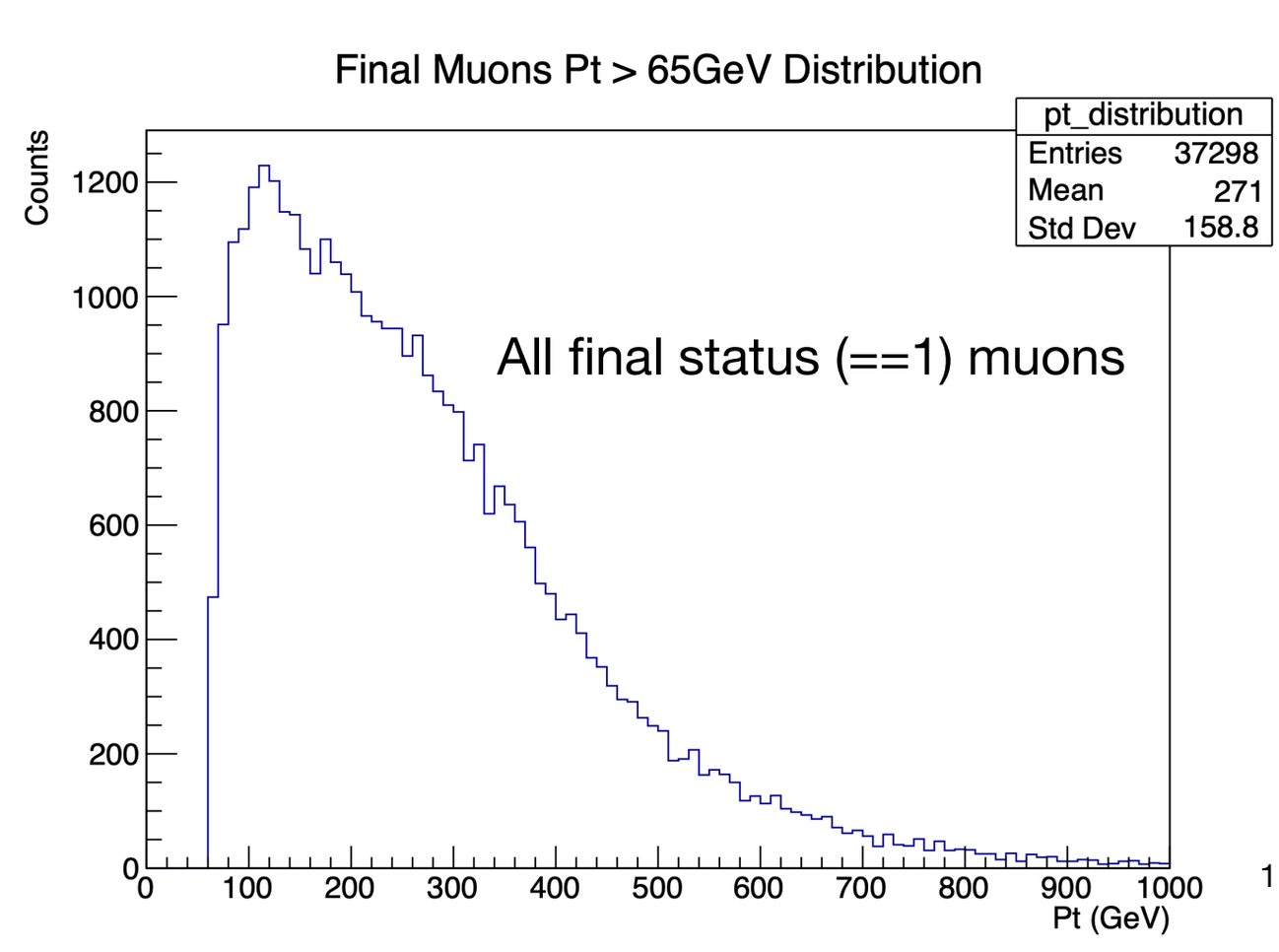
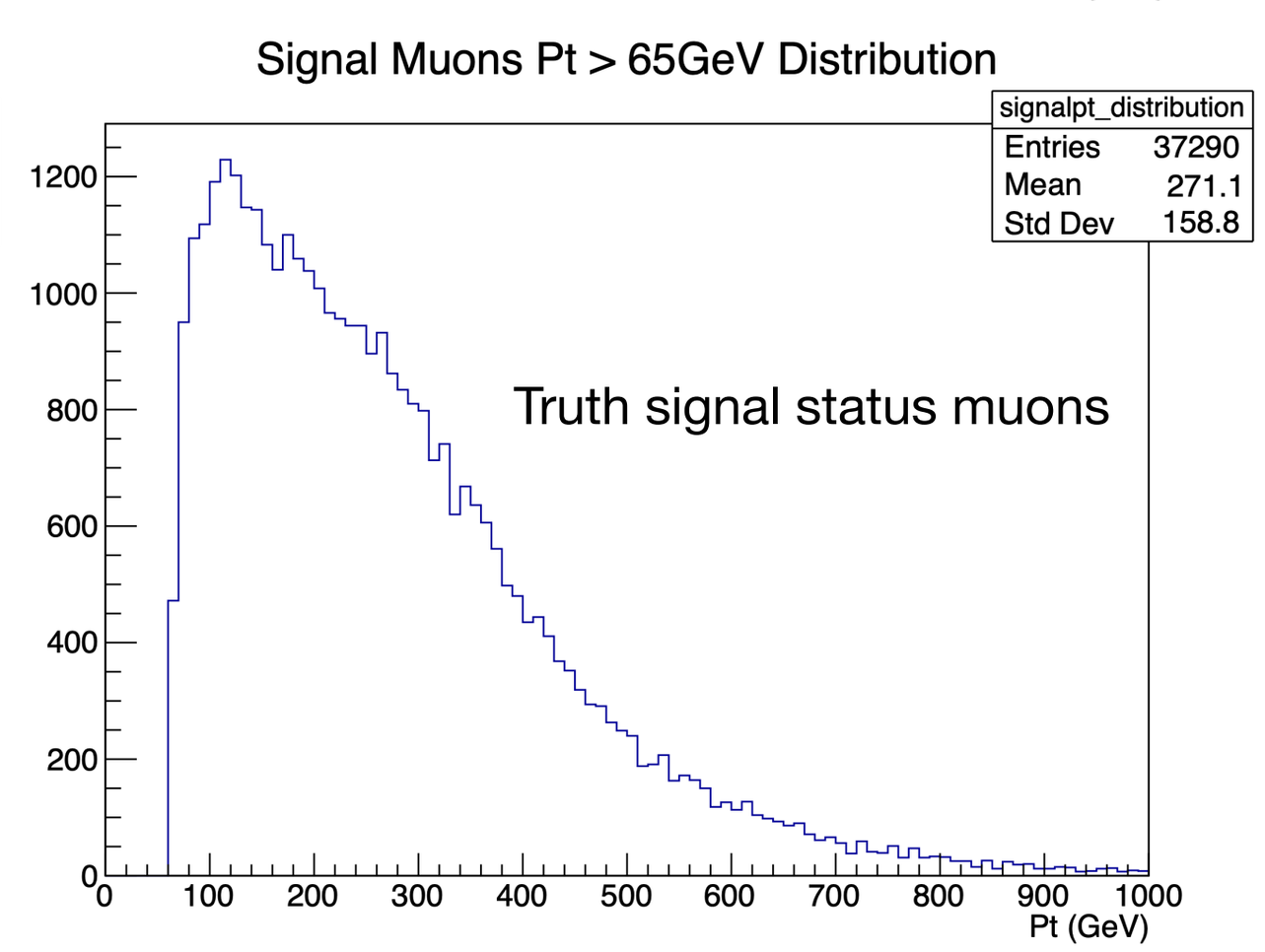
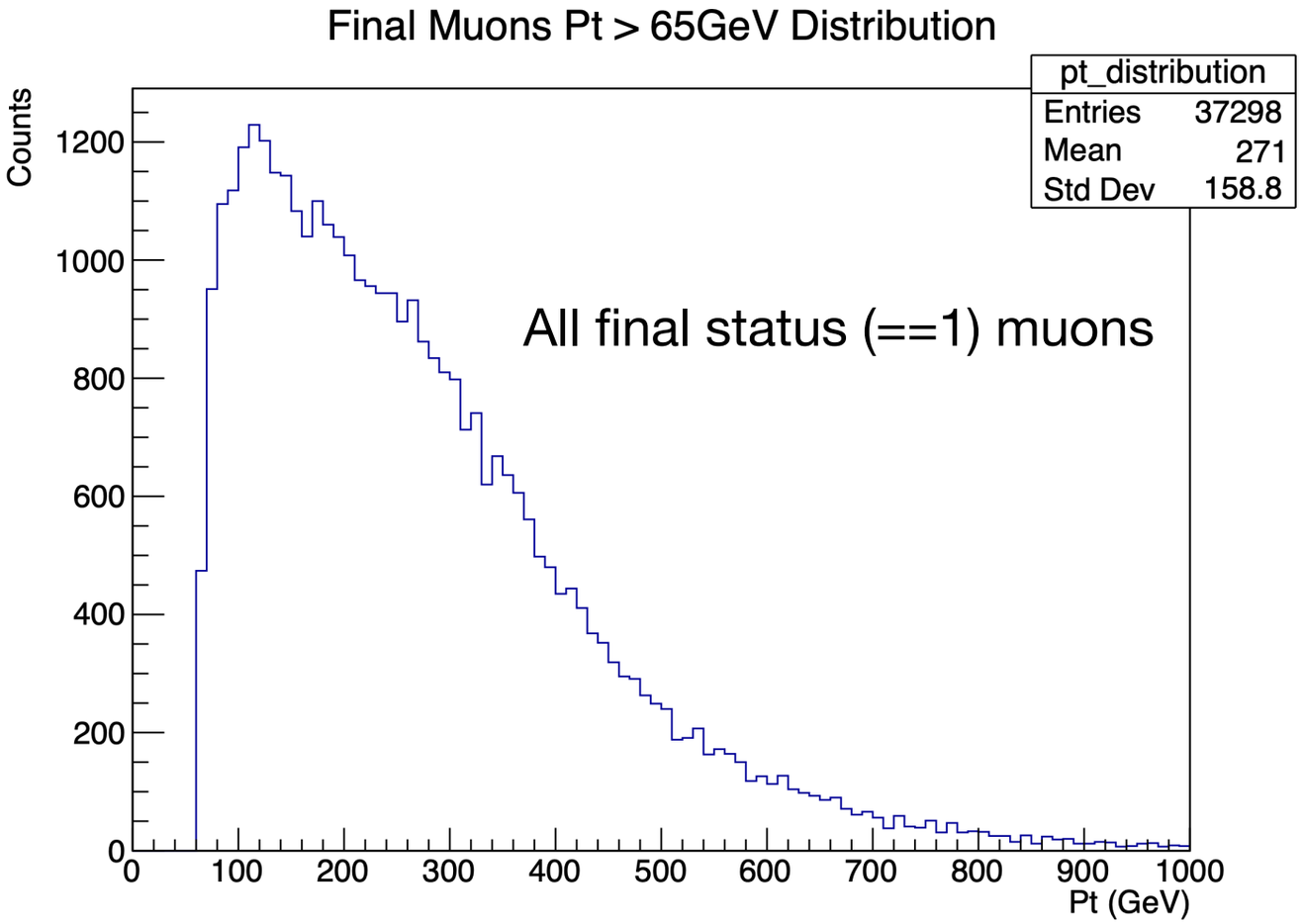
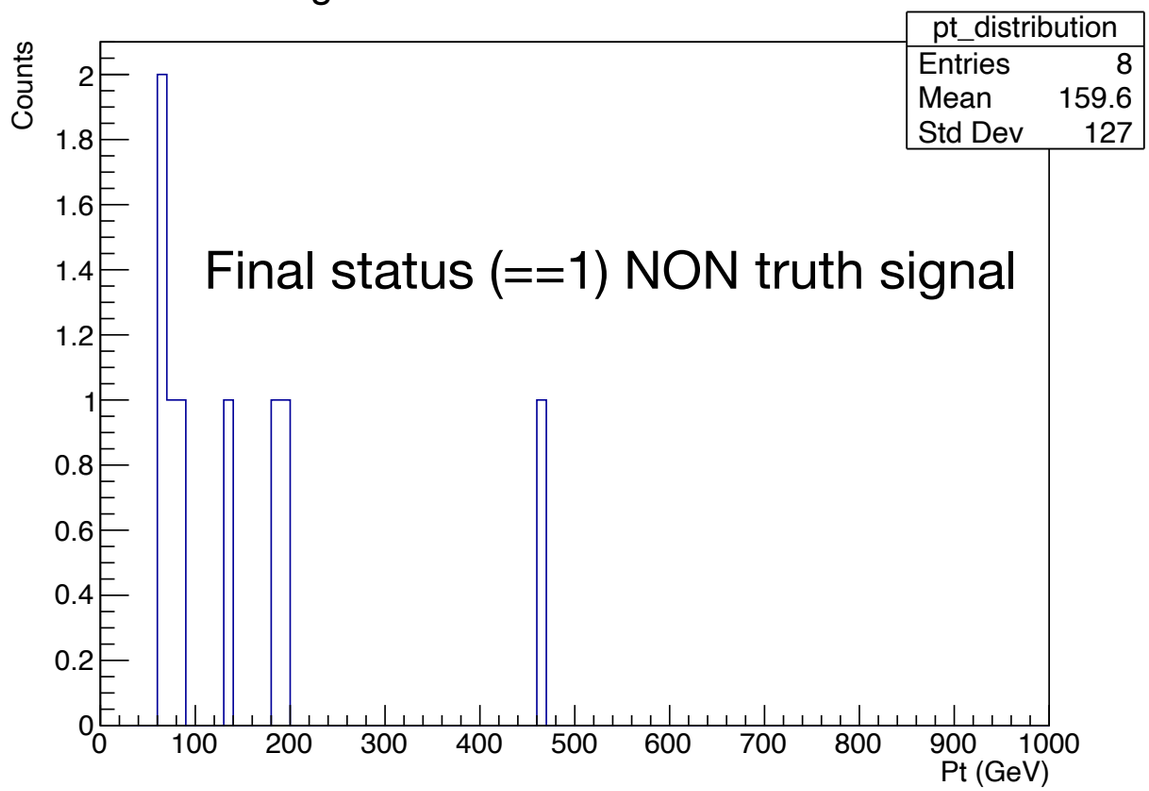

Final Muons Pt Distribution
pt_distribution
Entries 42623
Mean 239.9
Std Dev 169.9
All final status (==1) muons
Counts
Pt (GeV)


Signal Muons Pt Distribution
signalpt_distribution
Entries 40000
Mean 255.5
Std Dev 163.7
Truth signal status muons
Pt (GeV)

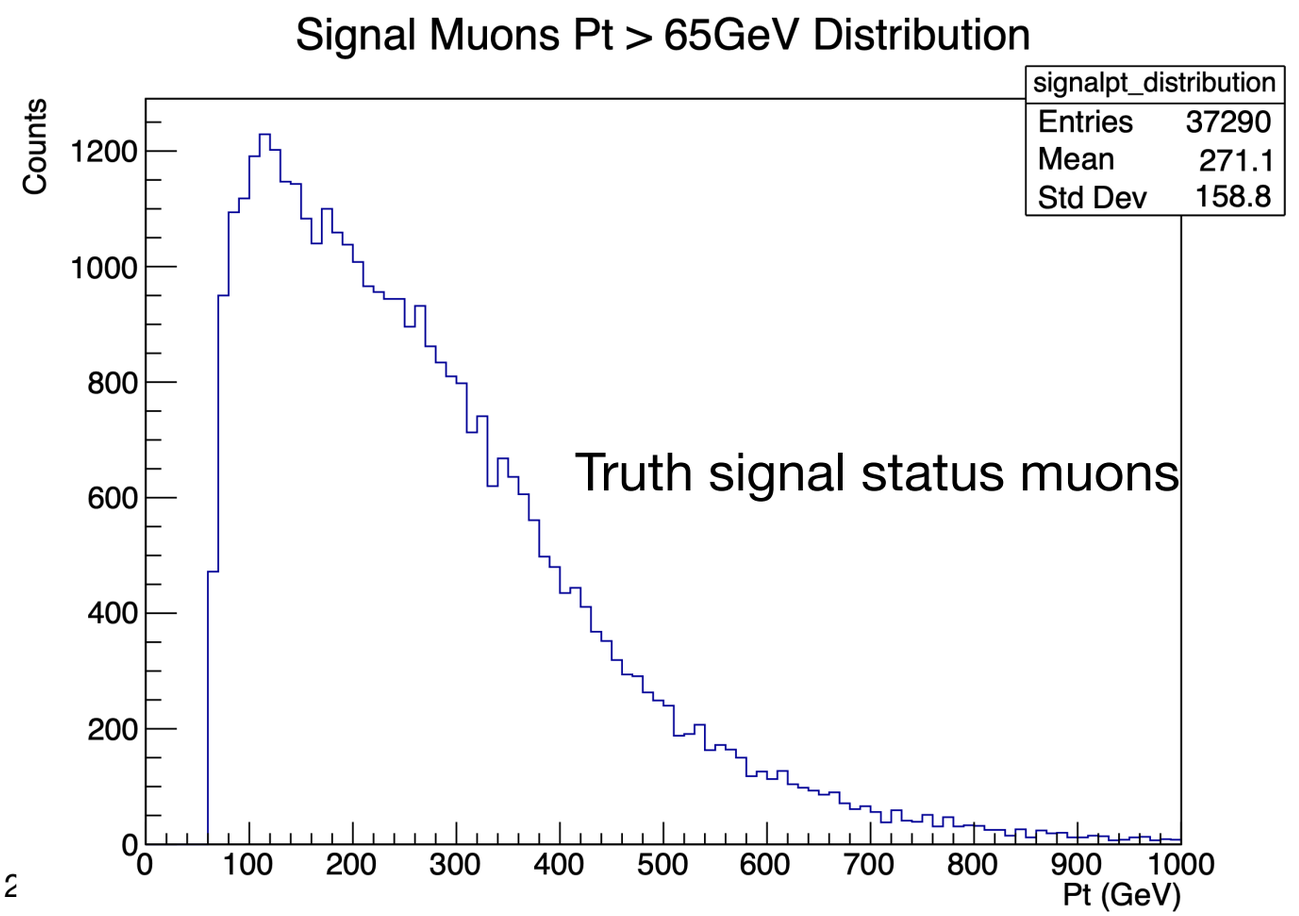

Final Muons Pt > 65GeV Distribution
pt_distribution
Entries 37298
Mean 271
Std Dev 158.8
All final status (==1) muons
Counts
Pt (GeV)

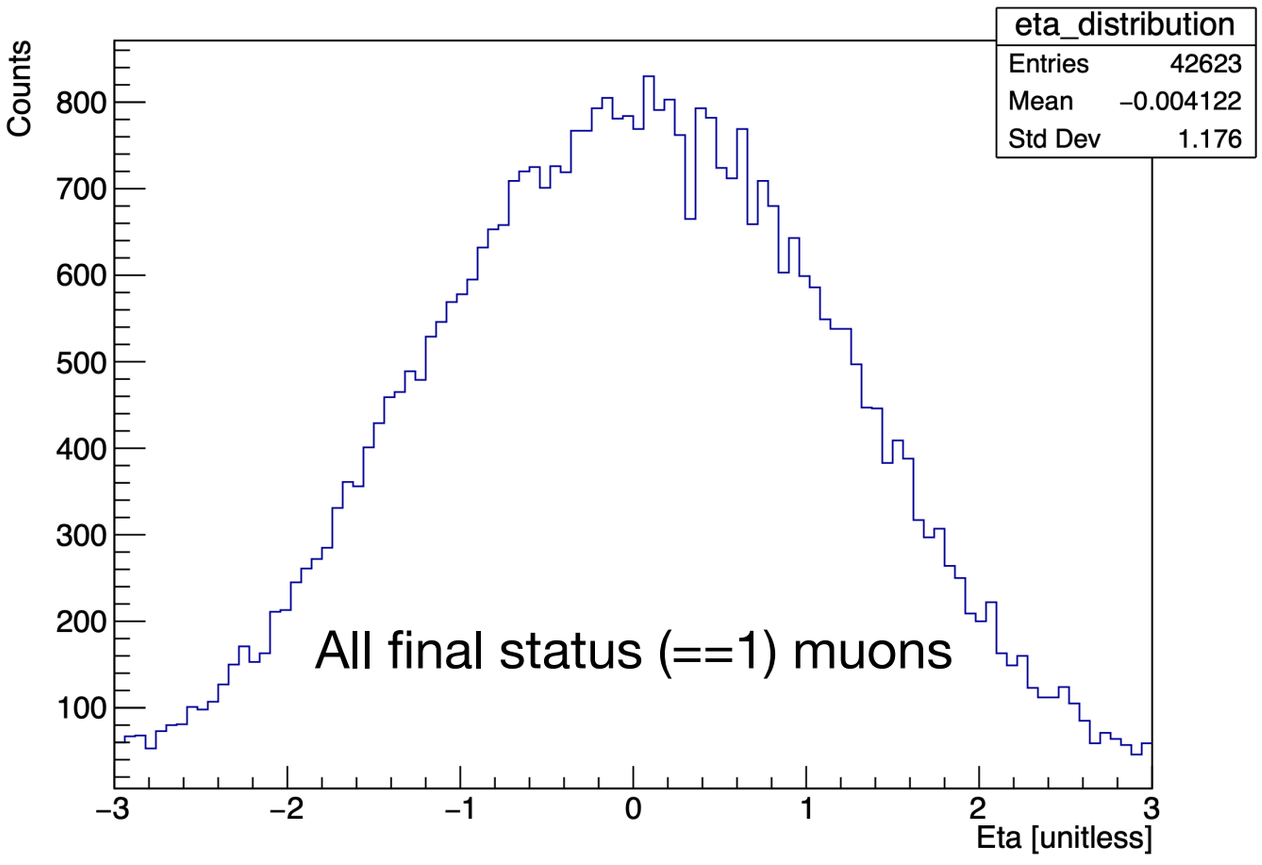

Signal Muons Pt > 65GeV Distribution
signalpt_distribution
Entries 37290
Mean 271.1
Std Dev 158.8
Truth signal status muons
Pt (GeV)

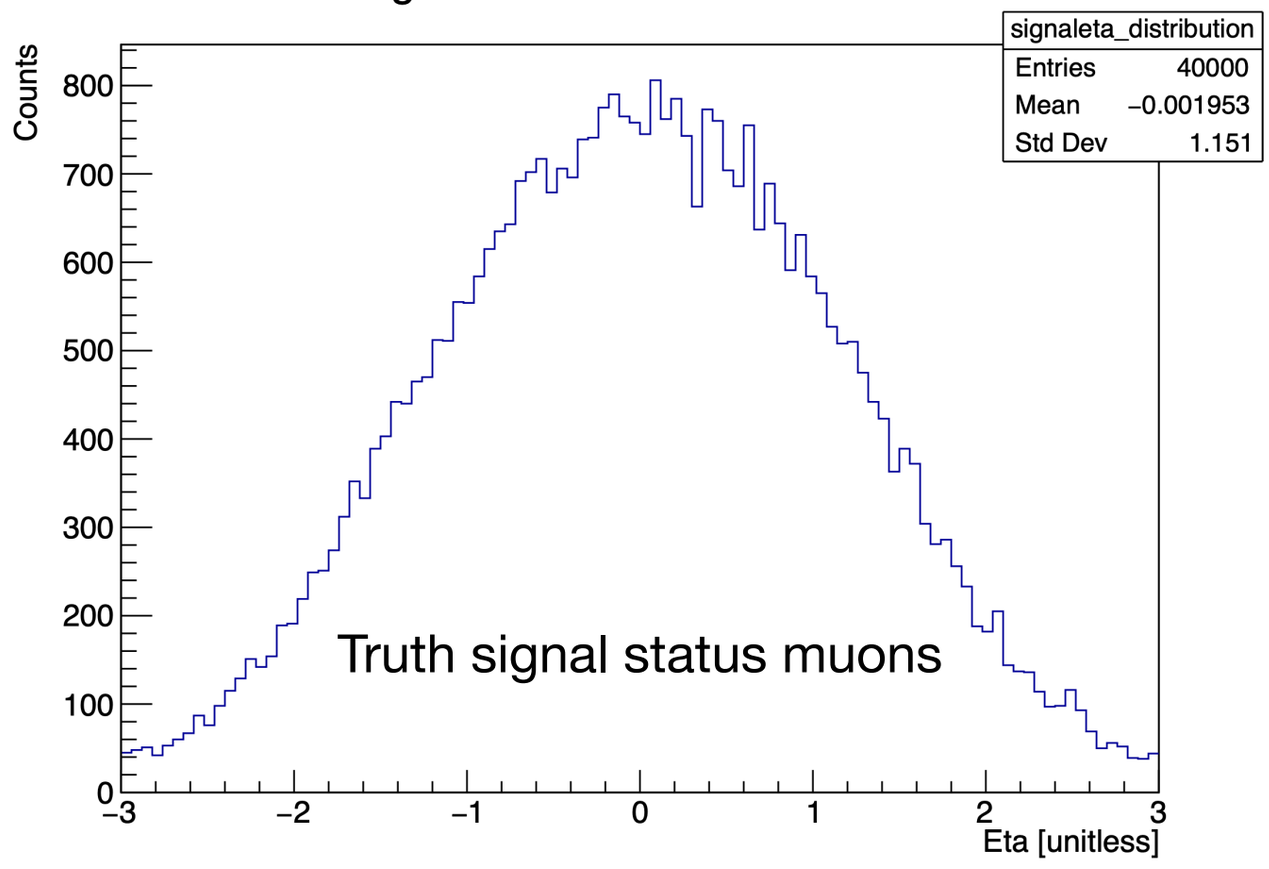


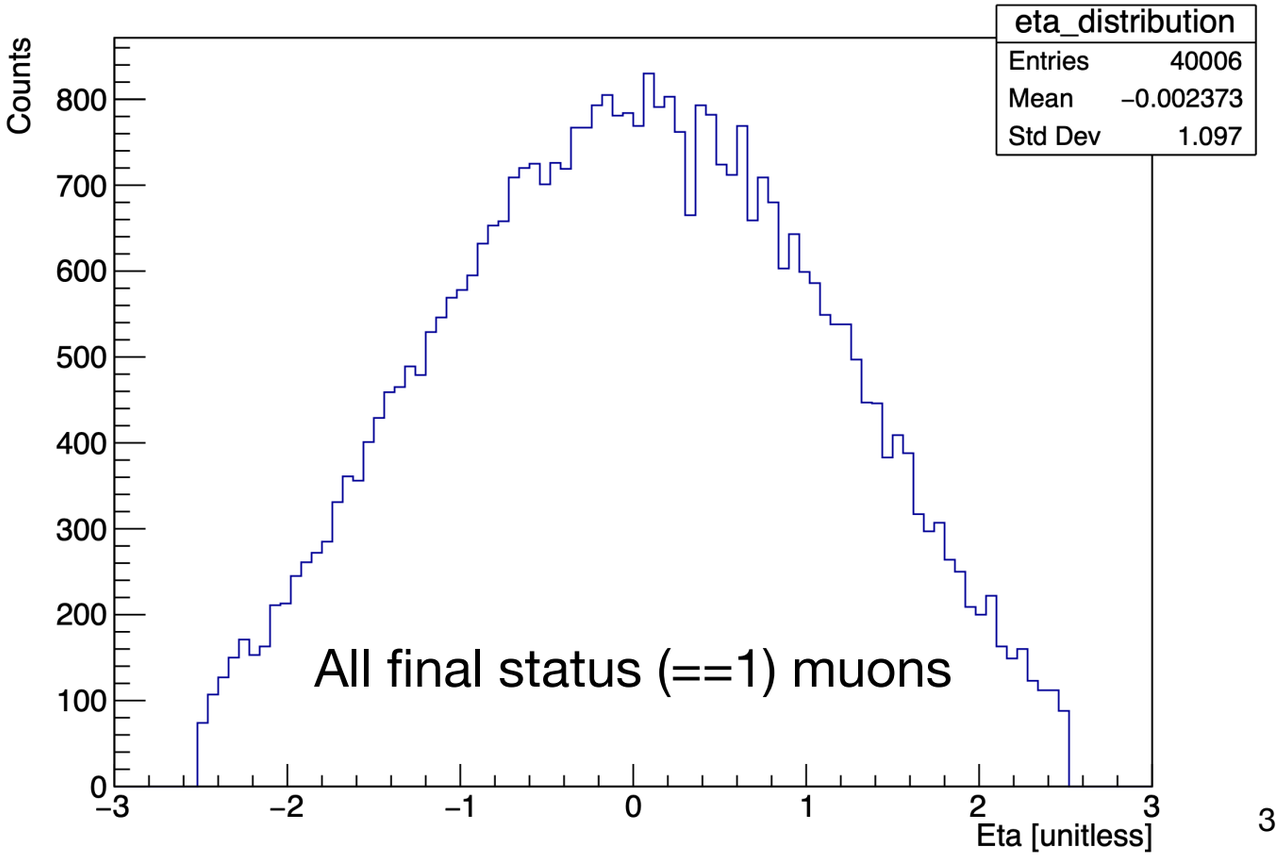



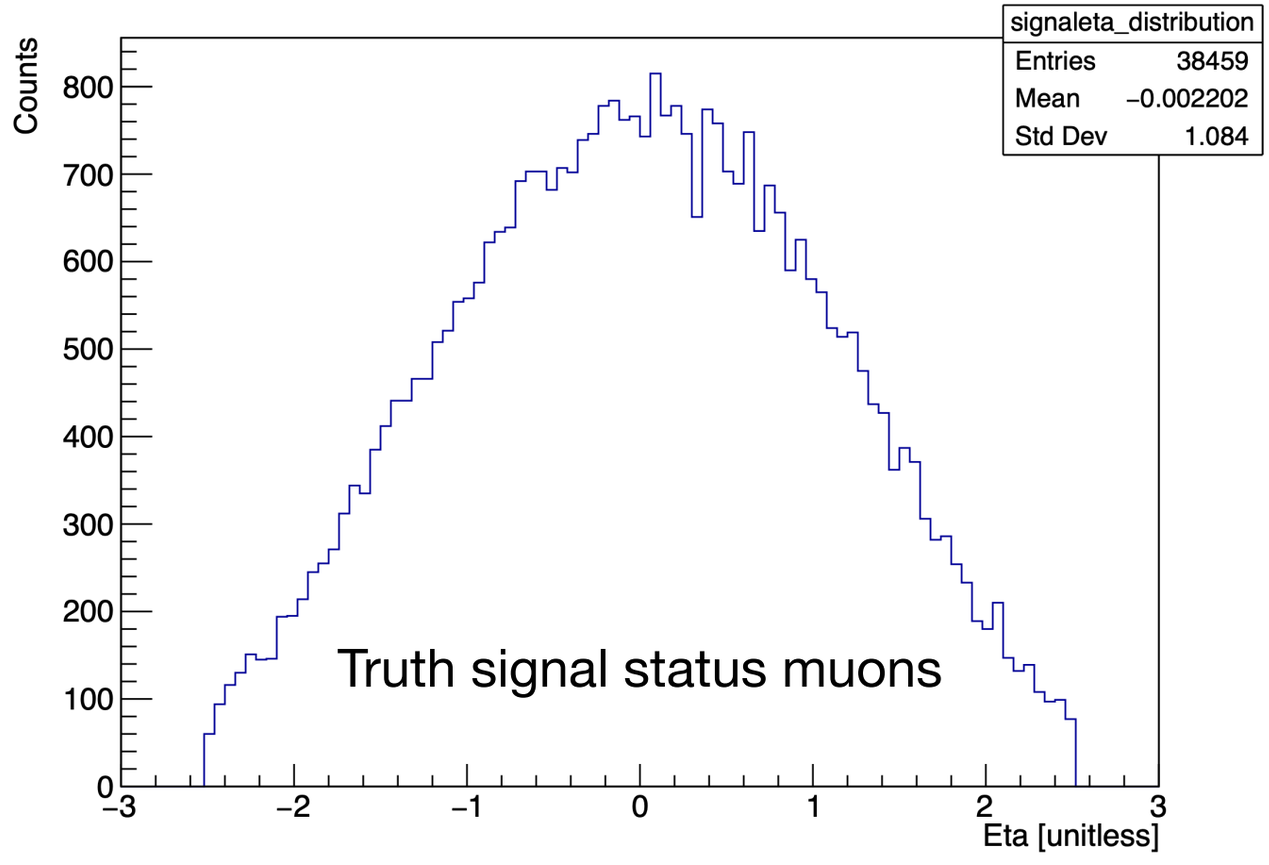

After applying the cut, there are
8 non-truth final muons

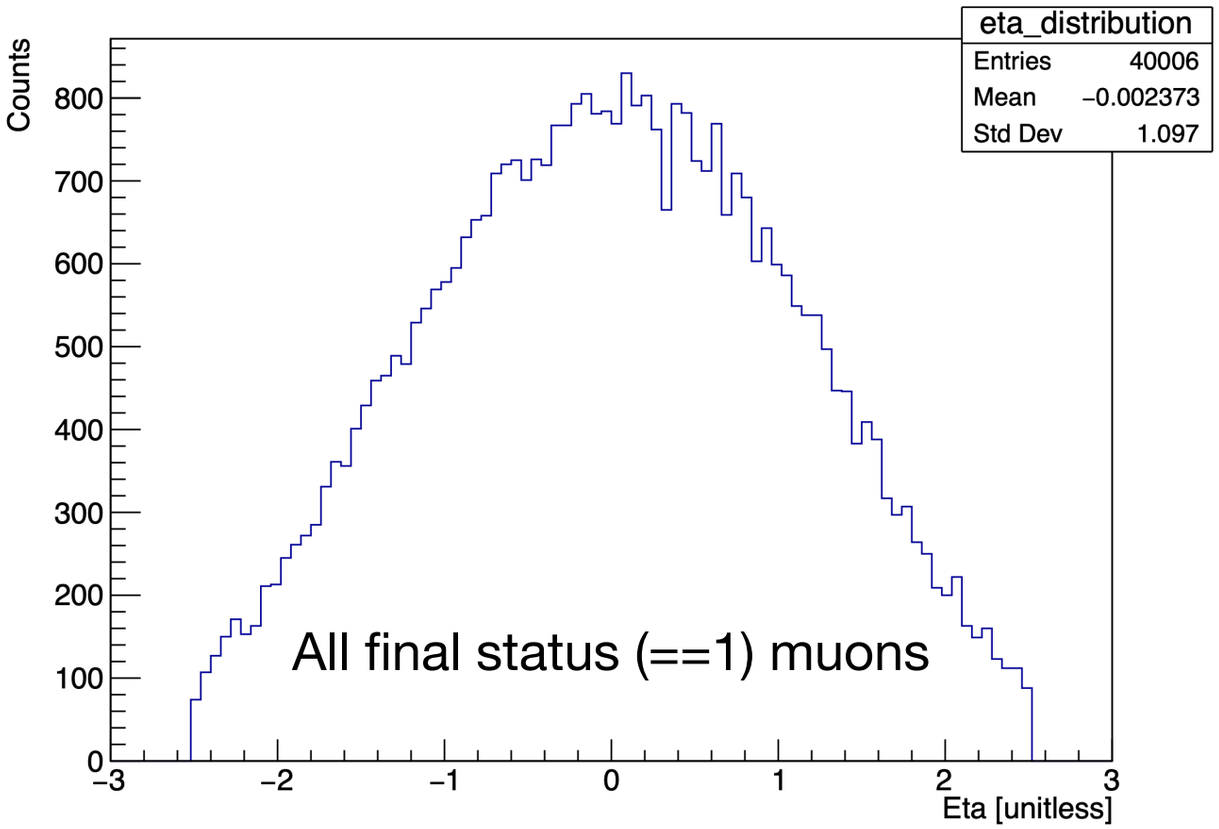


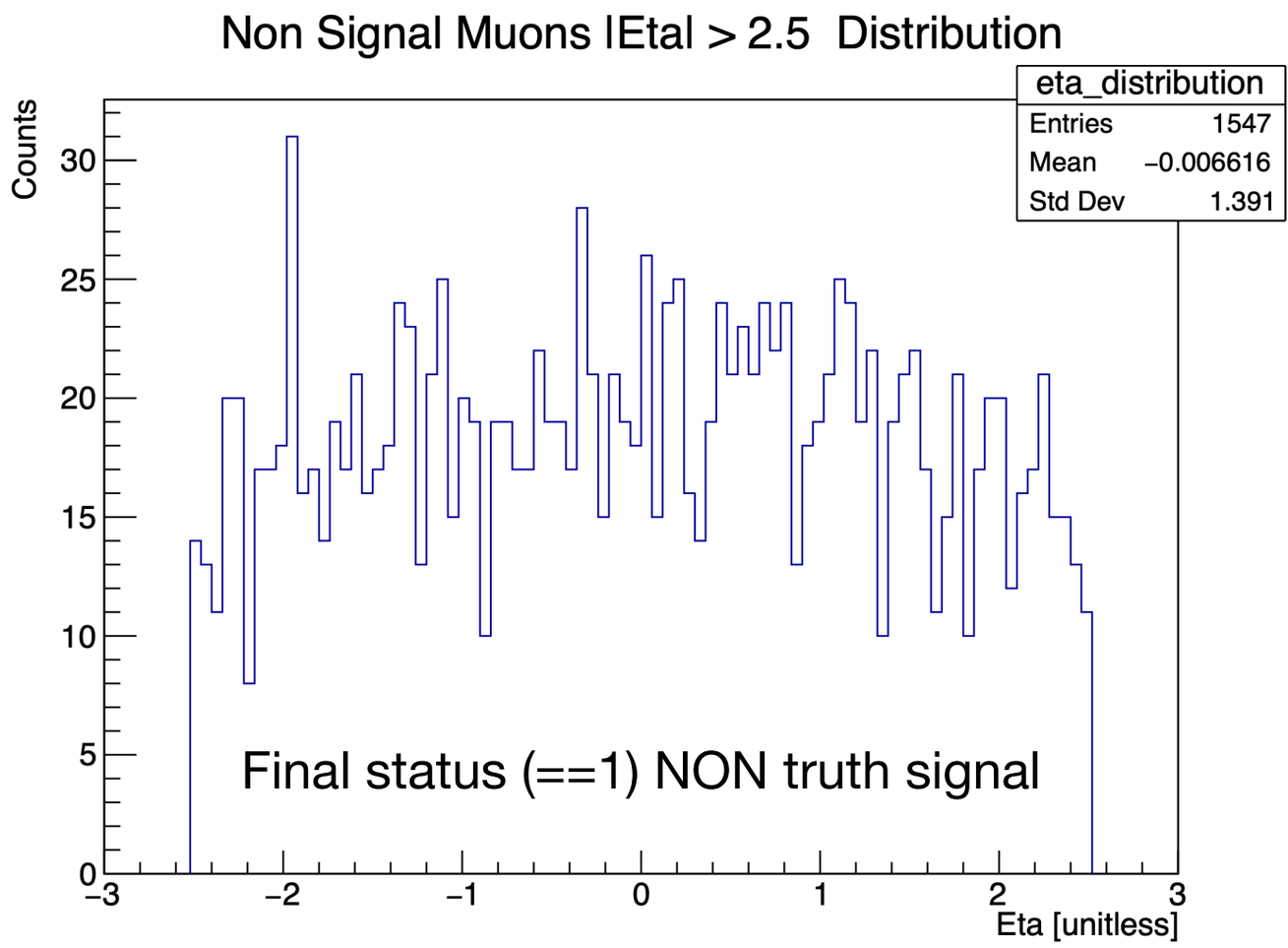

Final Muons Eta Distribution
eta_distribution
Entries 42623
Mean −0.004122
Std Dev 1.176
Counts
All final status (==1) muons
Eta [unitless]


Signal Muons Eta Distribution
signaleta_distribution
Entries 40000
Mean −0.001953
Std Dev 1.151
Counts
Truth signal status muons
Eta [unitless]

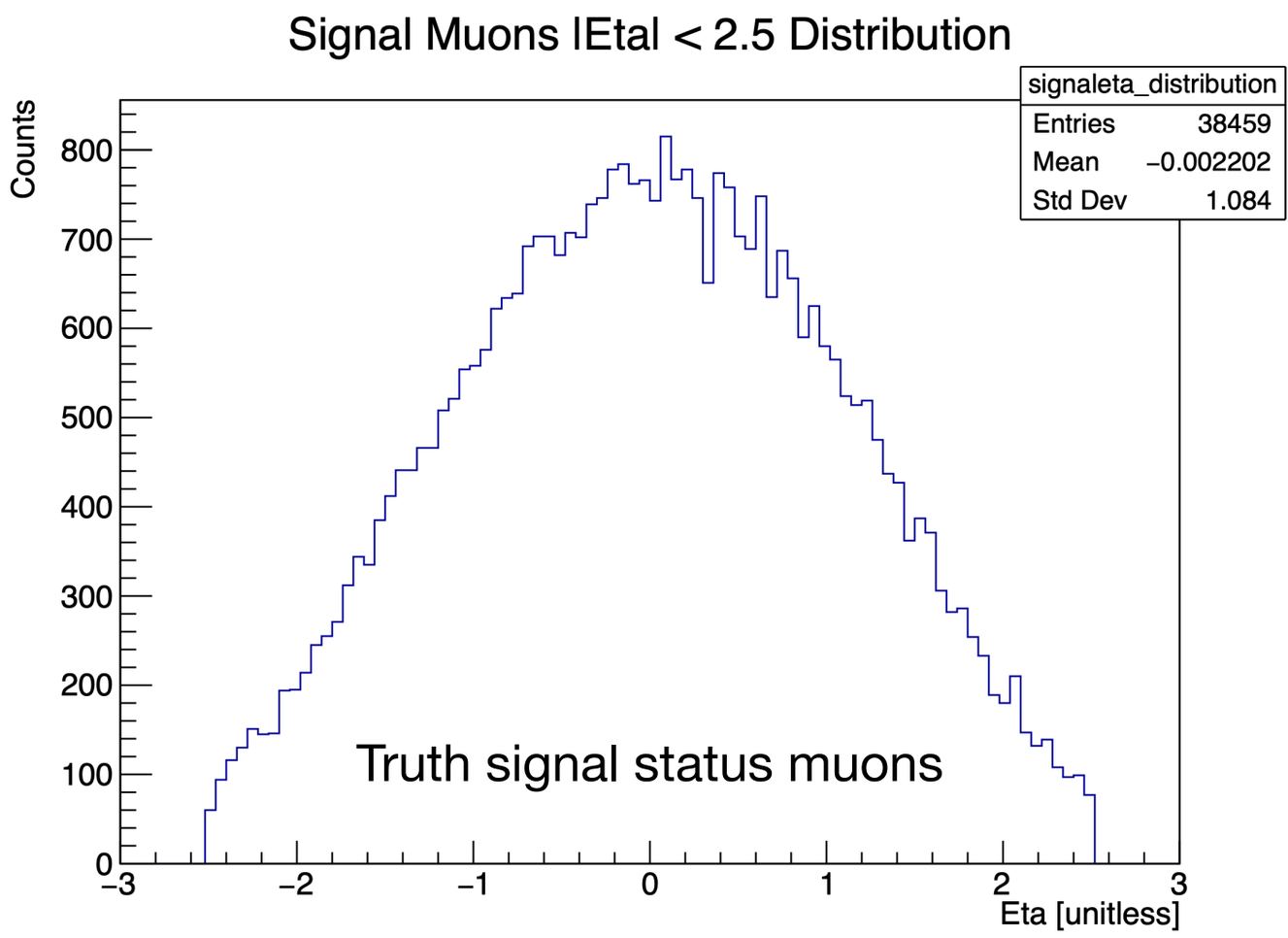

Final Muons |Eta| < 2.5 Distribution
eta_distribution
Entries 40006
Mean −0.002373
Std Dev 1.097
Counts
All final status (==1) muons
Eta [unitless]

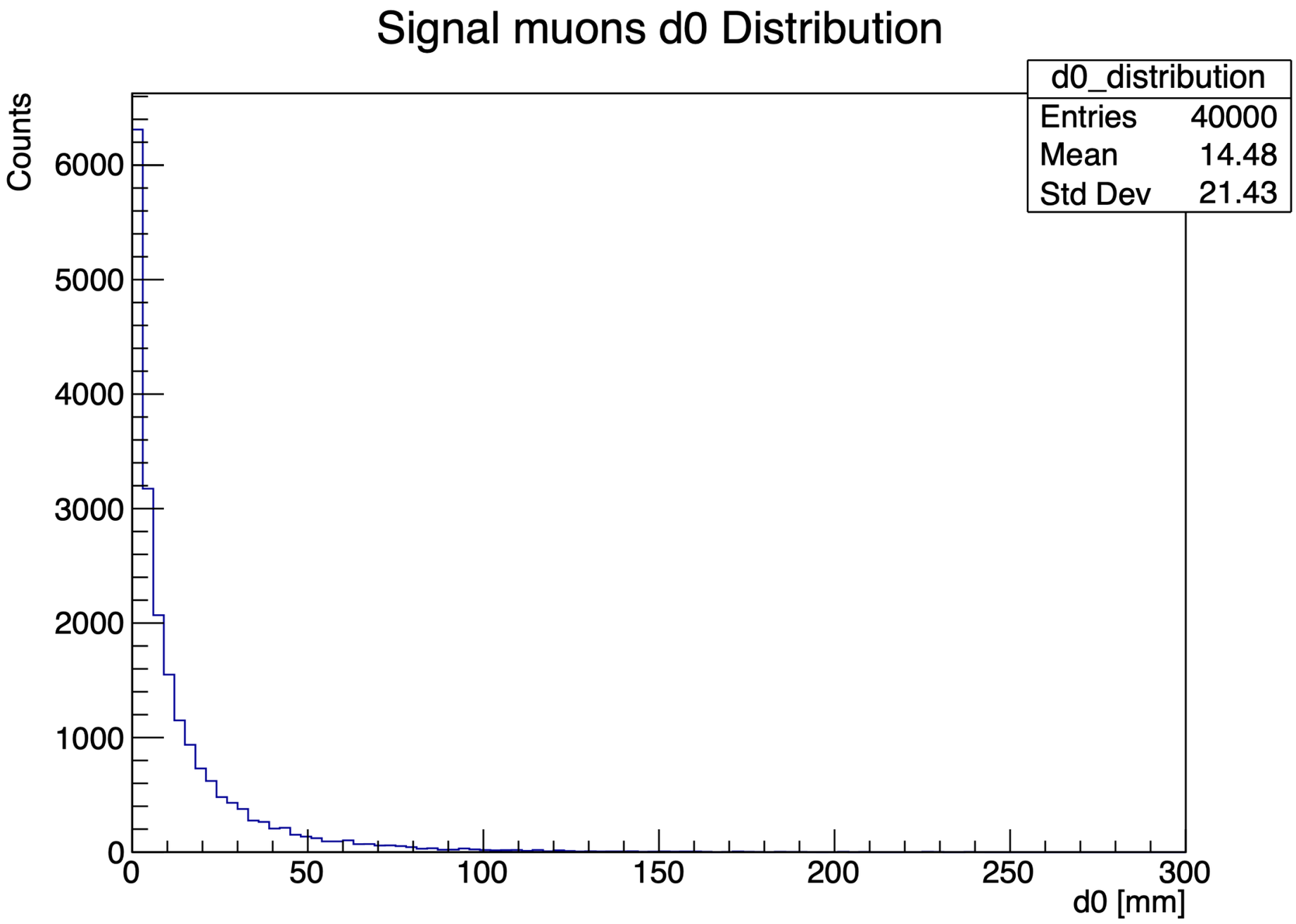

Signal Muons |Eta| < 2.5 Distribution
signaleta_distribution
Entries 38459
Mean −0.002202
Std Dev 1.084
Counts
Truth signal status muons
Eta [unitless]

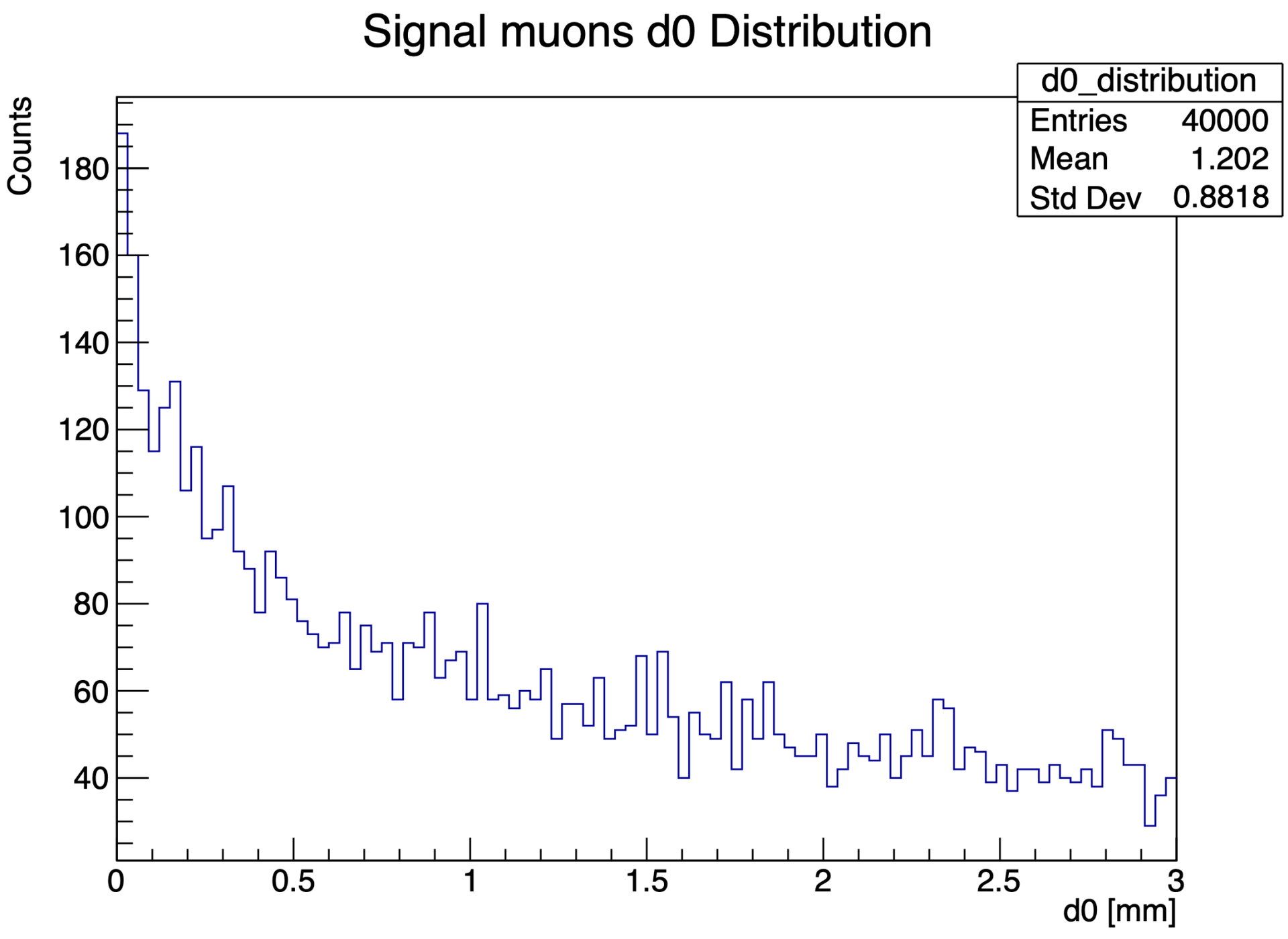



After applying the cut, there are 1547 non-truth final muons




Signal muons d0 Distribution
d0_distribution
Entries 40000
Mean 14.48
Std Dev 21.43
Counts
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
300
d0 [mm]


Signal muons d0 Distribution
d0_distribution
Entries 40000
Mean 1.202
Std Dev 0.8818
Counts
180
160
140
120
100
80
60
40
0
0.5
1
1.5
2
2.5
3
d0 [mm]