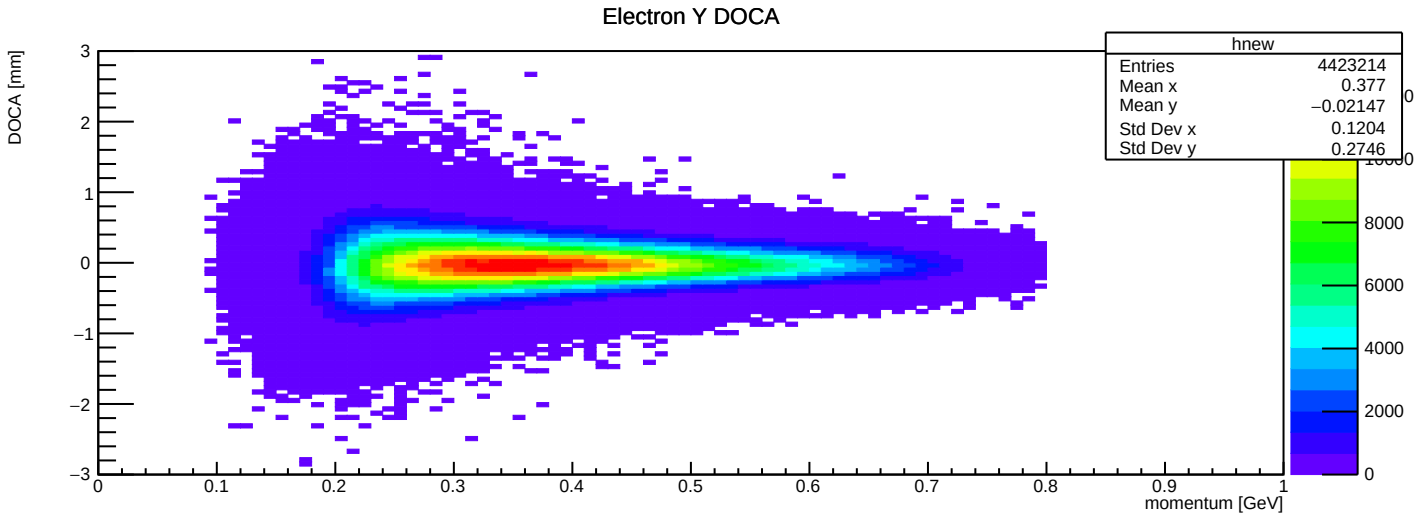
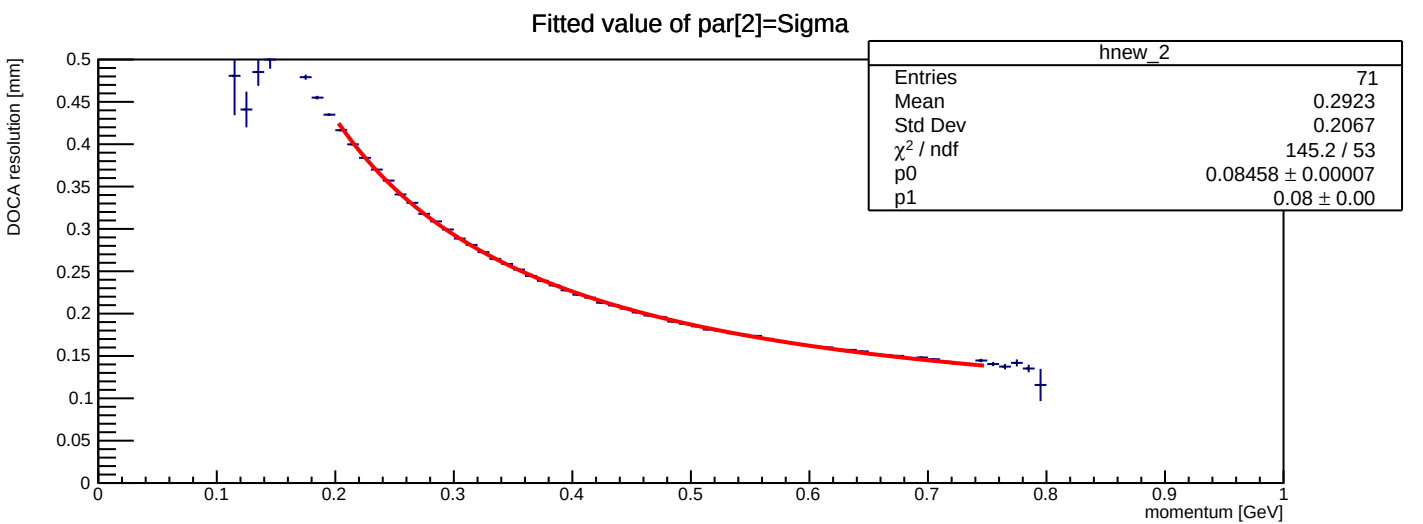
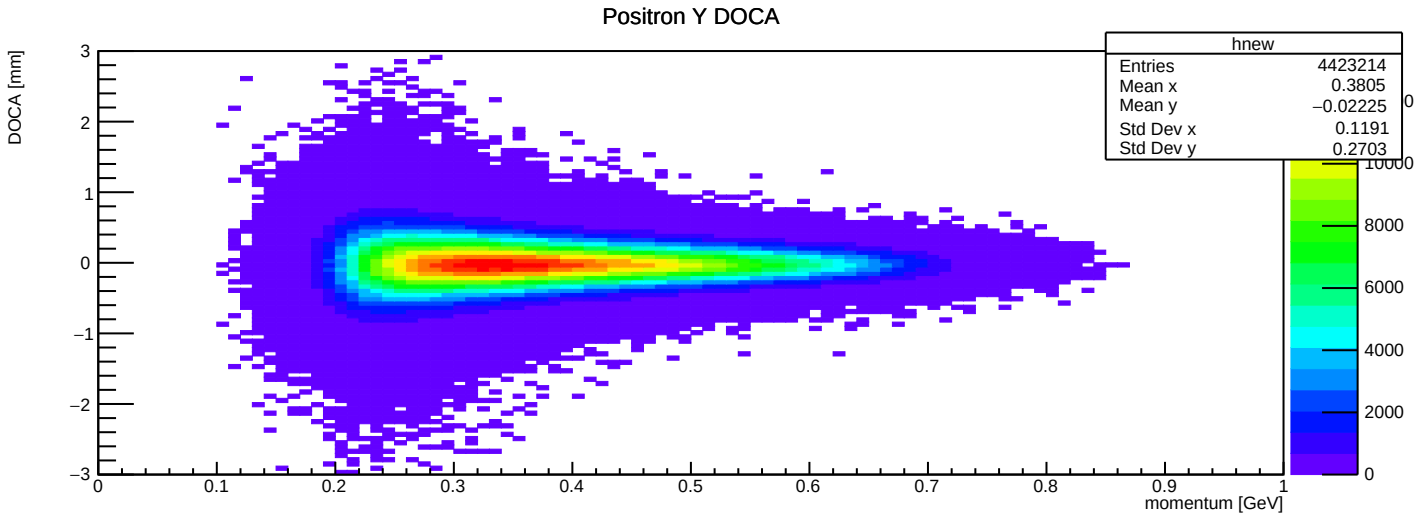
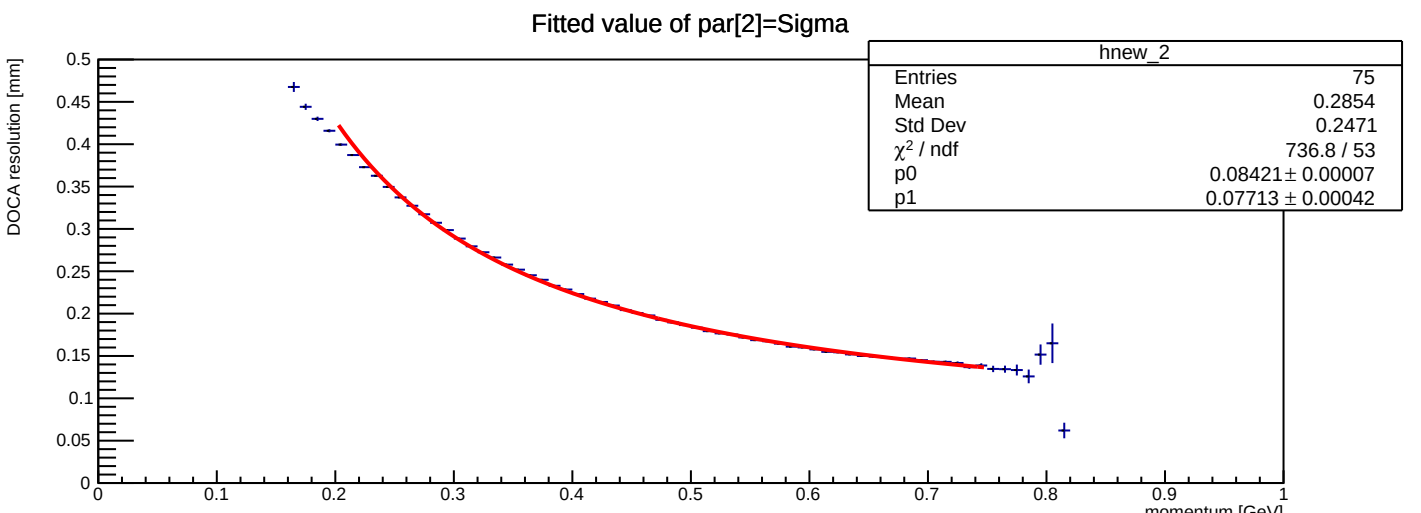
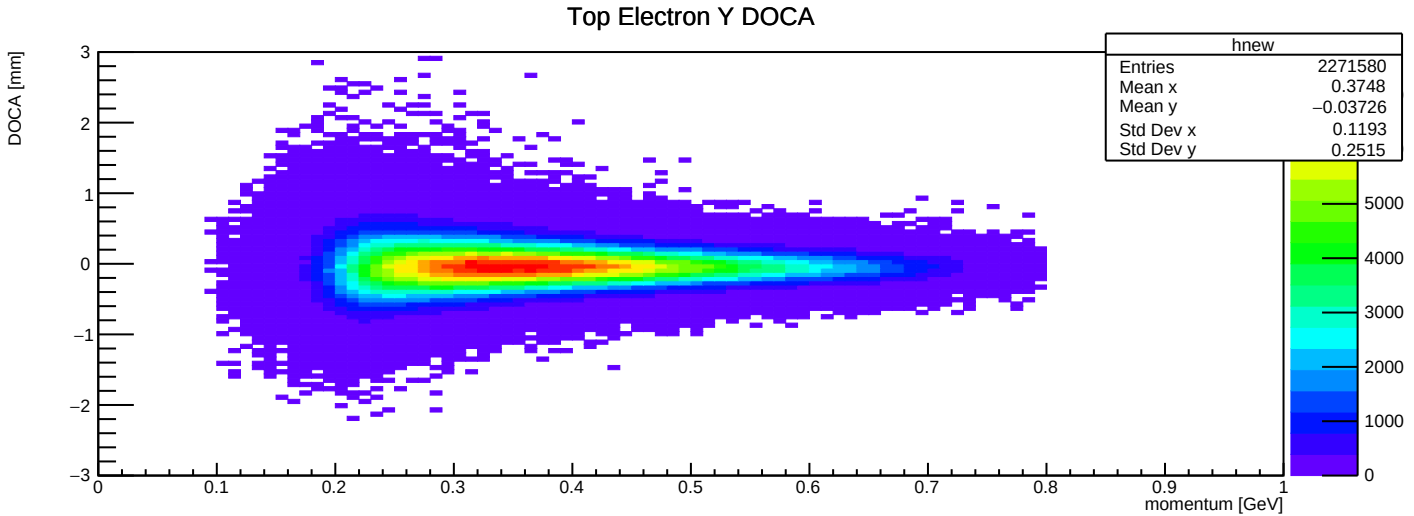
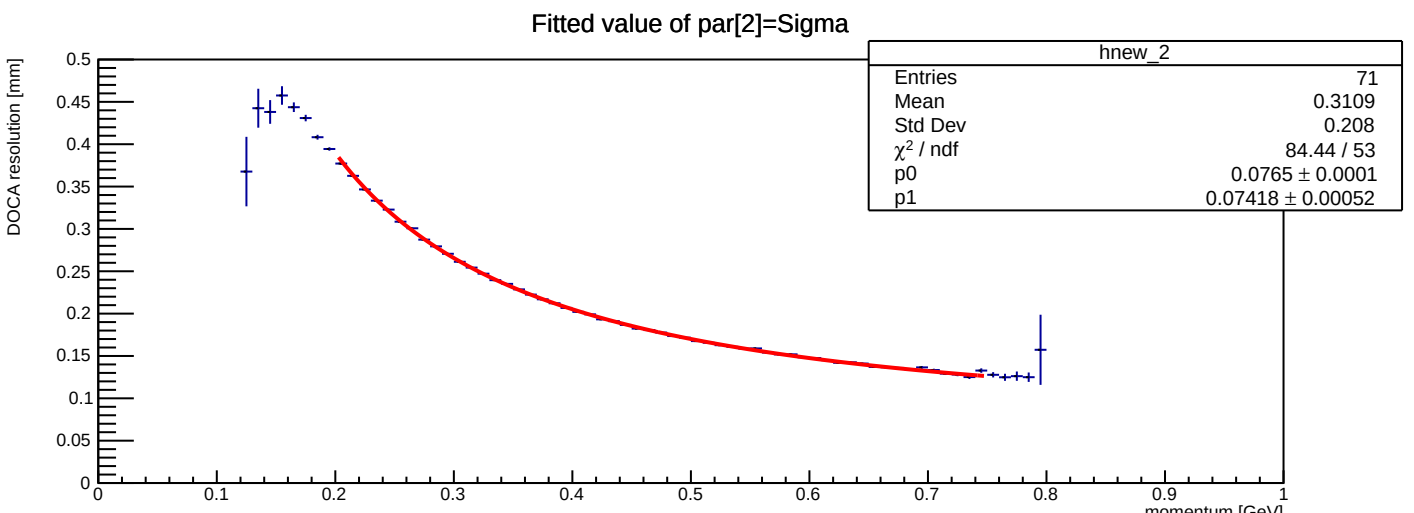

Electron Y DOCA
DOCA [mm]
momentum [GeV]
hnew
Entries 4423214
Mean x 0.377
Mean y −0.02147
Std Dev x 0.1204
Std Dev y 0.2746

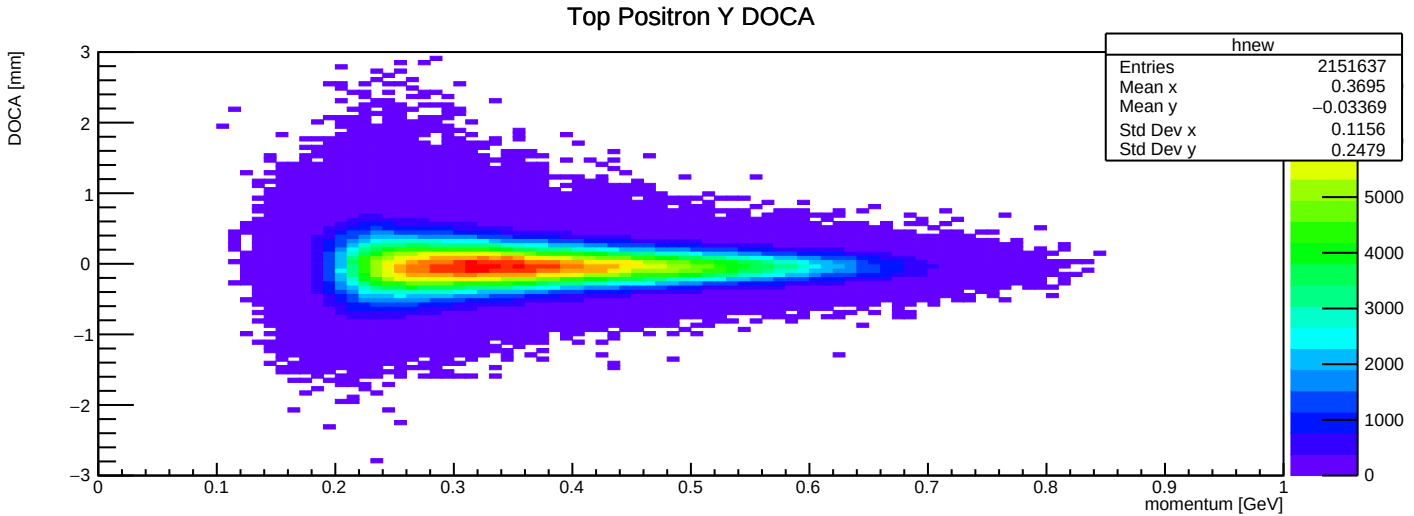

Fitted value of par[2]=Sigma
DOCA resolution [mm]
momentum [GeV]
hnew_2
Entries 71
Mean 0.2923
Std Dev 0.2067
χ² / ndf 145.2 / 53
p0 0.08458 ± 0.00007
p1 0.08 ± 0.00

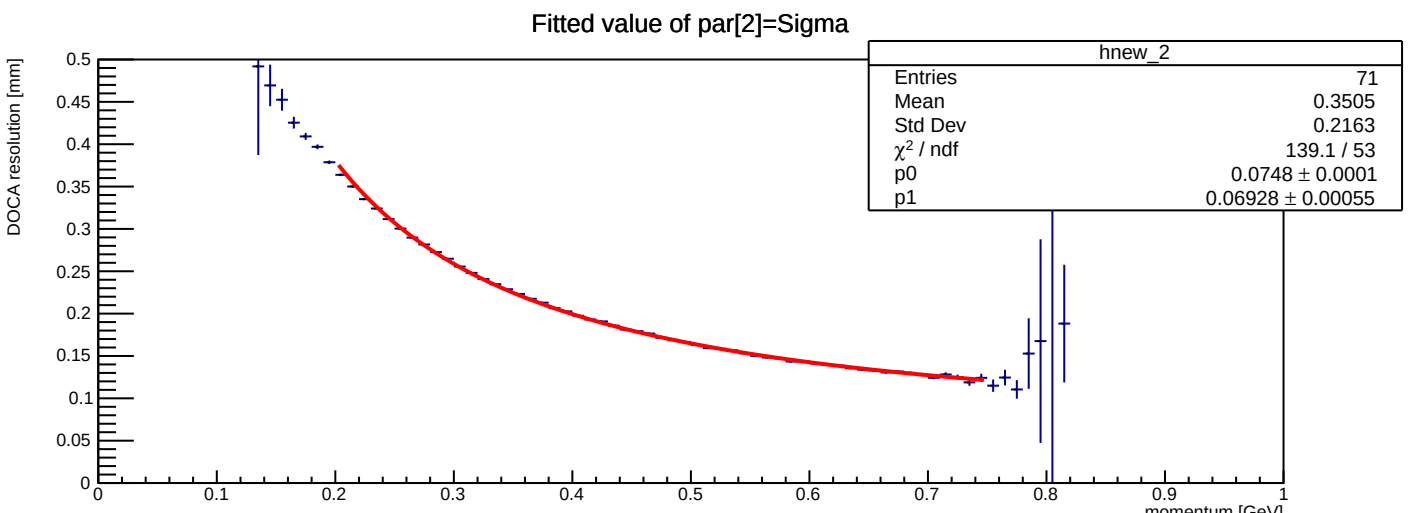

Positron Y DOCA
hnew
Entries 4423214
Mean x 0.3805
Mean y −0.02225
Std Dev x 0.1191
Std Dev y 0.2703
DOCA [mm]
momentum [GeV]

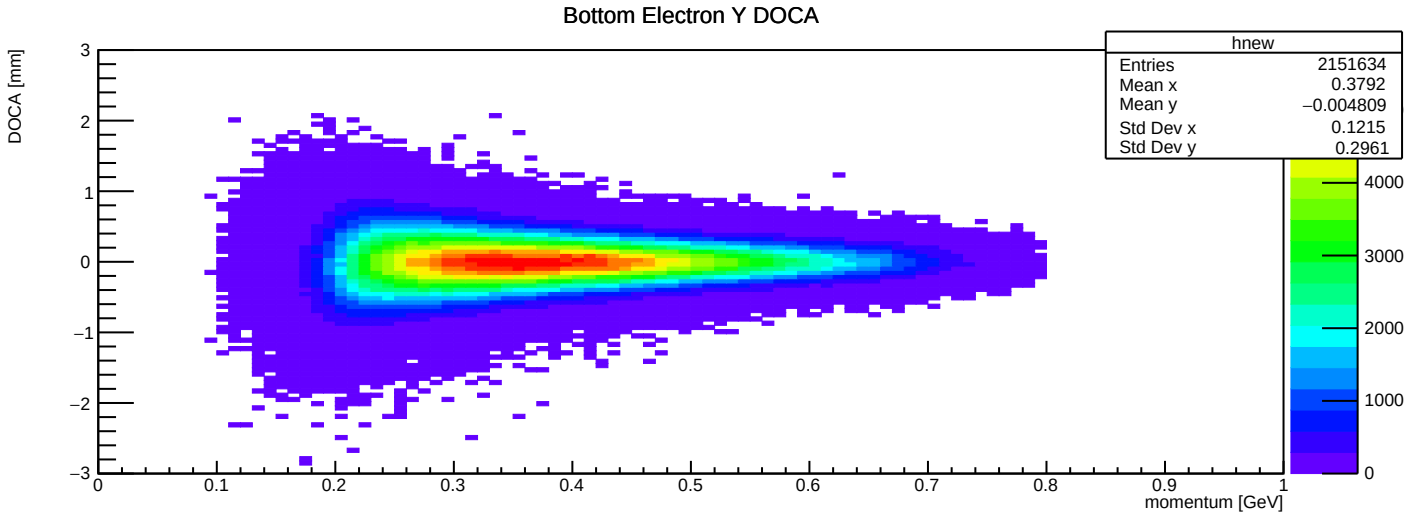

Fitted value of par[2]=Sigma
hnew_2
Entries 75
Mean 0.2854
Std Dev 0.2471
χ² / ndf 736.8 / 53
p0 0.08421 ± 0.00007
p1 0.07713 ± 0.00042
DOCA resolution [mm]
momentum [GeV]

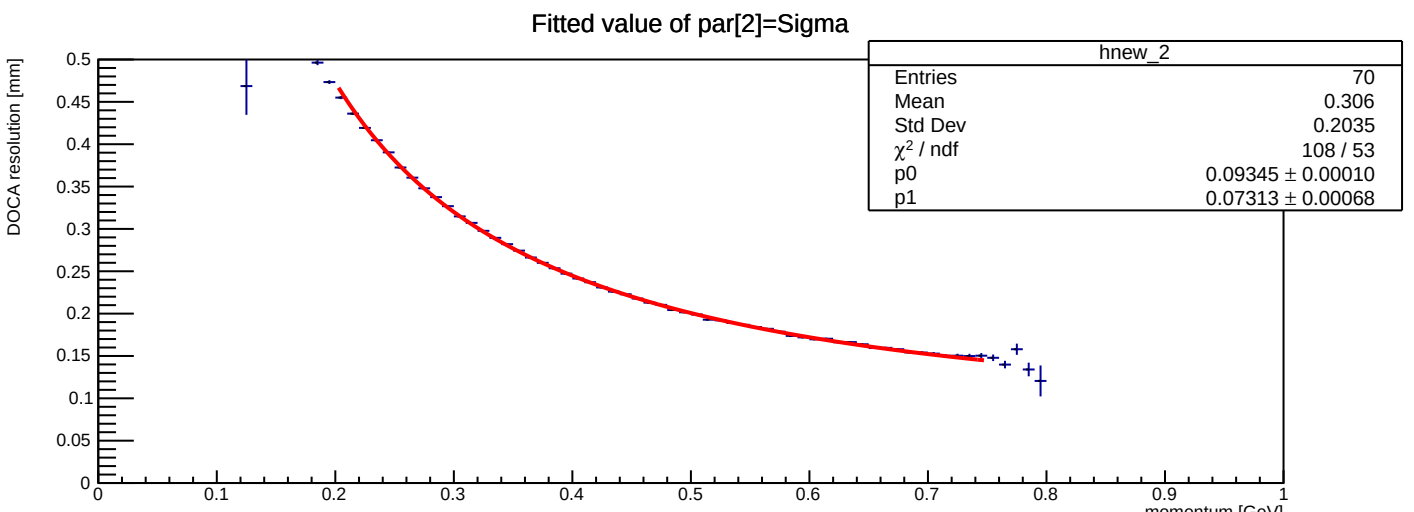

Top Electron Y DOCA
hnew
Entries 2271580
Mean x 0.3748
Mean y −0.03726
Std Dev x 0.1193
Std Dev y 0.2515
DOCA [mm]
momentum [GeV]

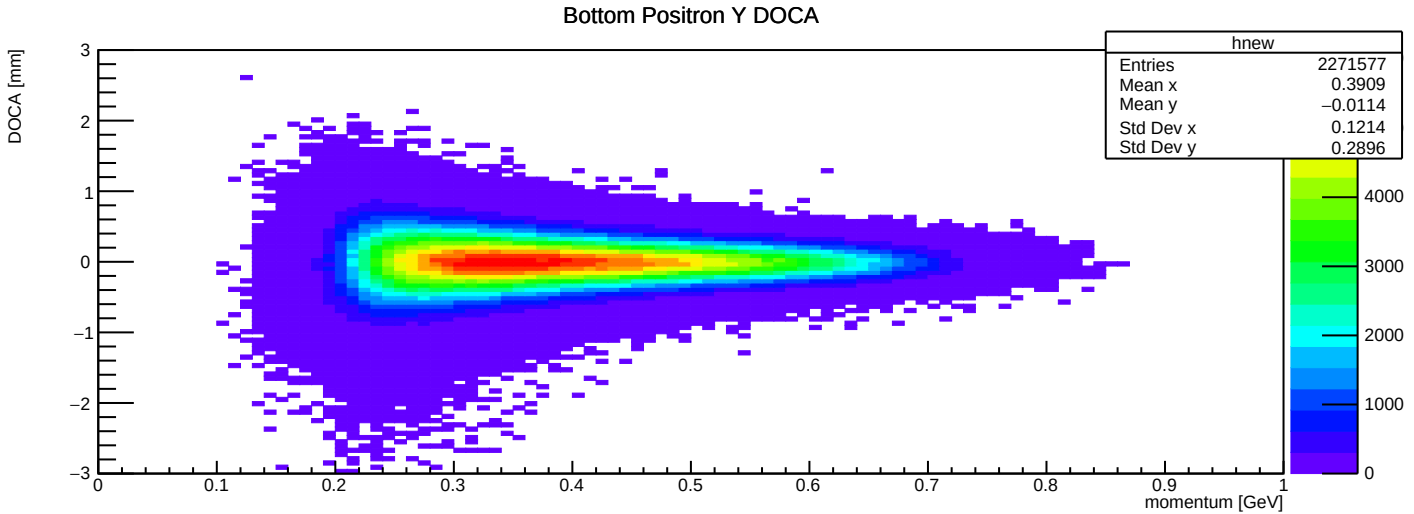

Fitted value of par[2]=Sigma
hnew_2
Entries 71
Mean 0.3109
Std Dev 0.208
χ² / ndf 84.44 / 53
p0 0.0765 ± 0.0001
p1 0.07418 ± 0.00052
DOCA resolution [mm]
momentum [GeV]

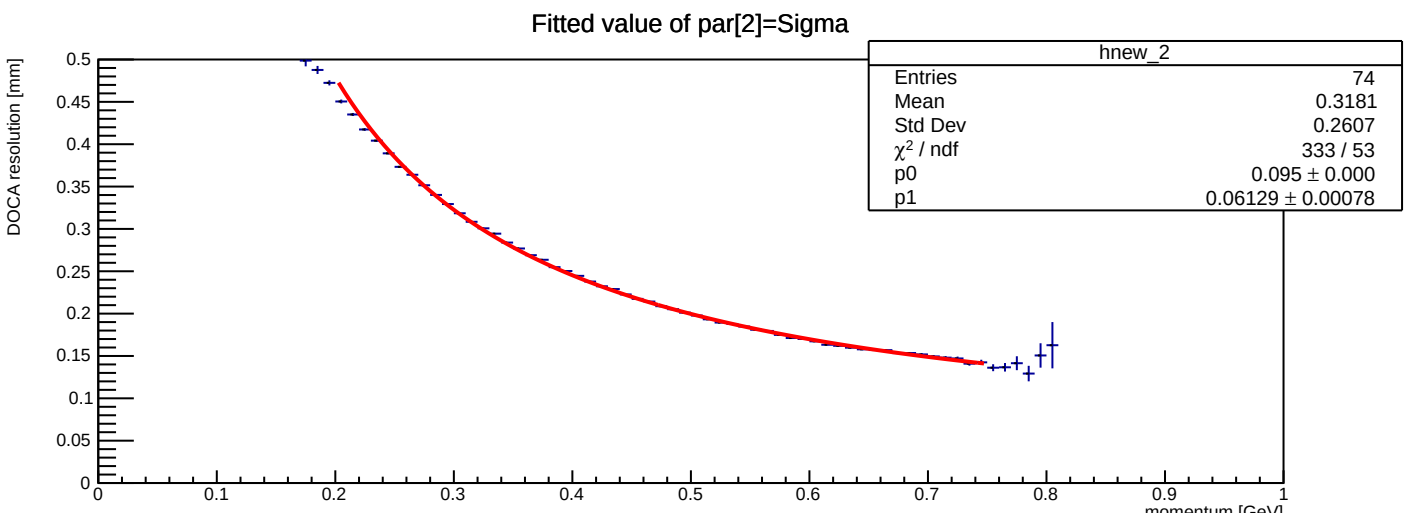

Top Positron Y DOCA
hnew
Entries 2151637
Mean x 0.3695
Mean y −0.03369
Std Dev x 0.1156
Std Dev y 0.2479
DOCA [mm]
momentum [GeV]

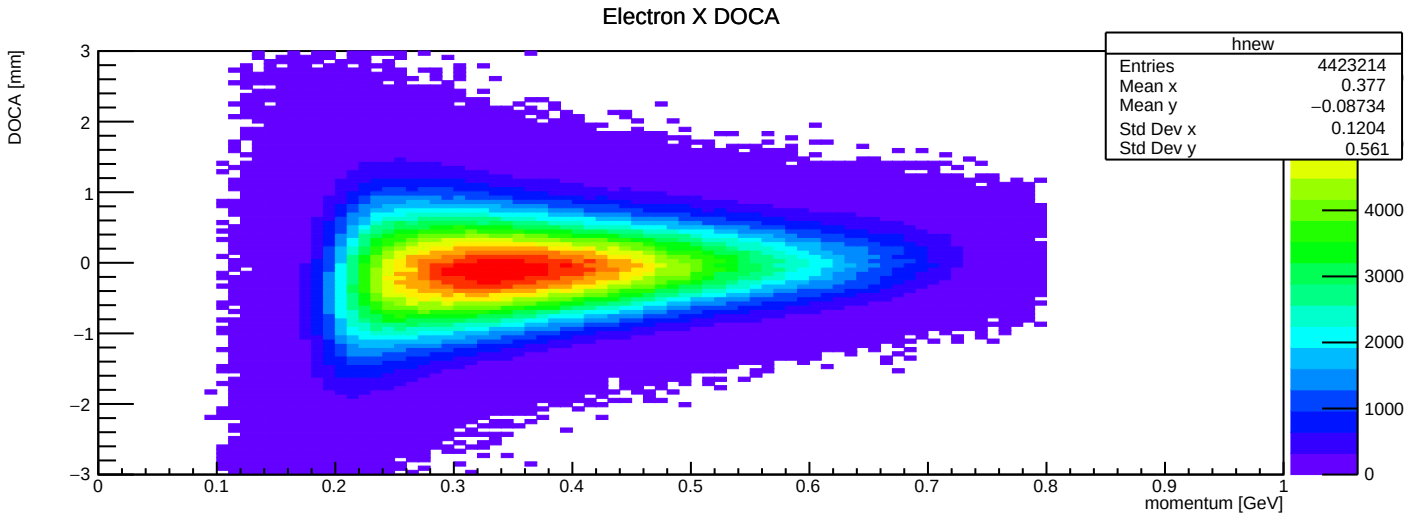

Fitted value of par[2]=Sigma
hnew_2
Entries 71
Mean 0.3505
Std Dev 0.2163
χ² / ndf 139.1 / 53
p0 0.0748 ± 0.0001
p1 0.06928 ± 0.00055
DOCA resolution [mm]
momentum [GeV]

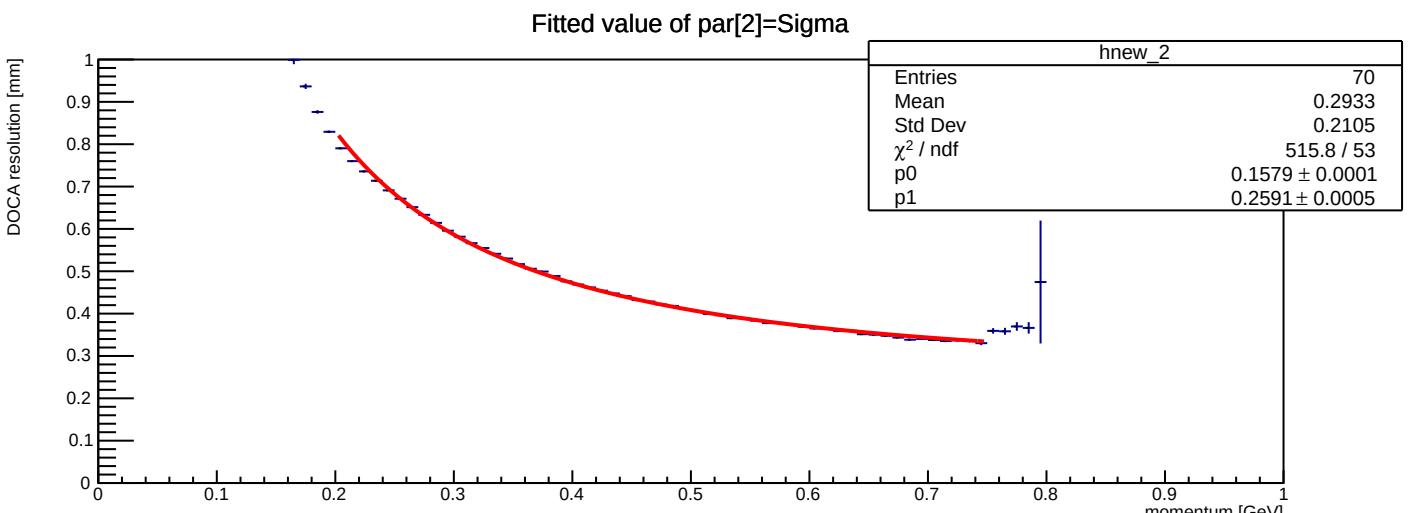

Bottom Electron Y DOCA
hnew
Entries 2151634
Mean x 0.3792
Mean y −0.004809
Std Dev x 0.1215
Std Dev y 0.2961
DOCA [mm]
momentum [GeV]

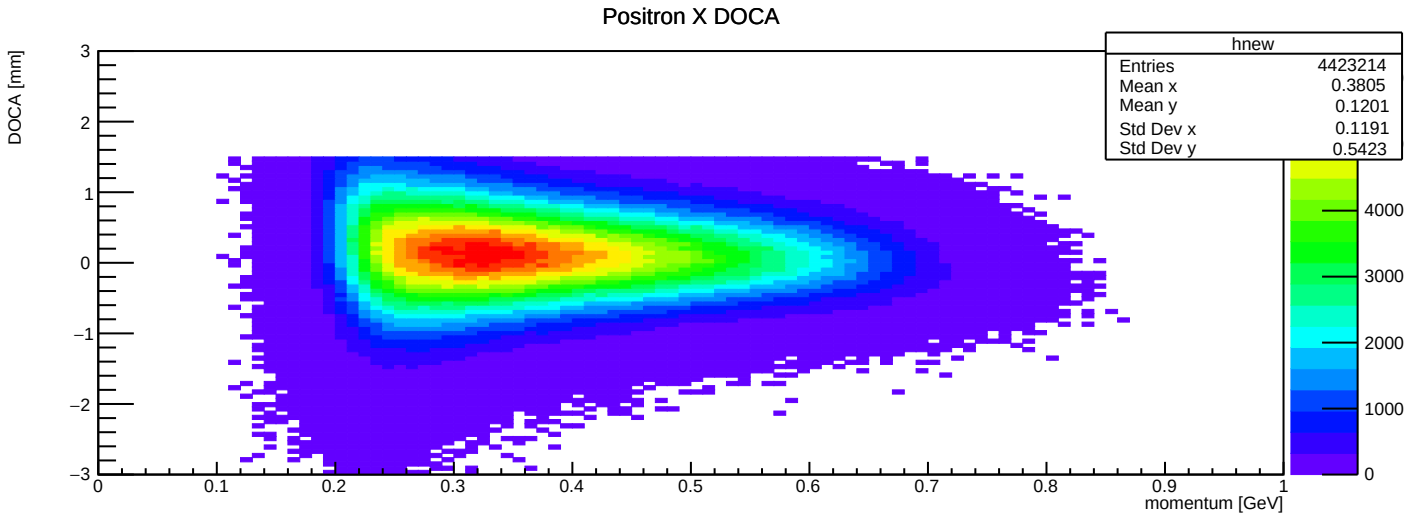

Fitted value of par[2]=Sigma
hnew_2
Entries 70
Mean 0.306
Std Dev 0.2035
χ² / ndf 108 / 53
p0 0.09345 ± 0.00010
p1 0.07313 ± 0.00068
DOCA resolution [mm]
momentum [GeV]

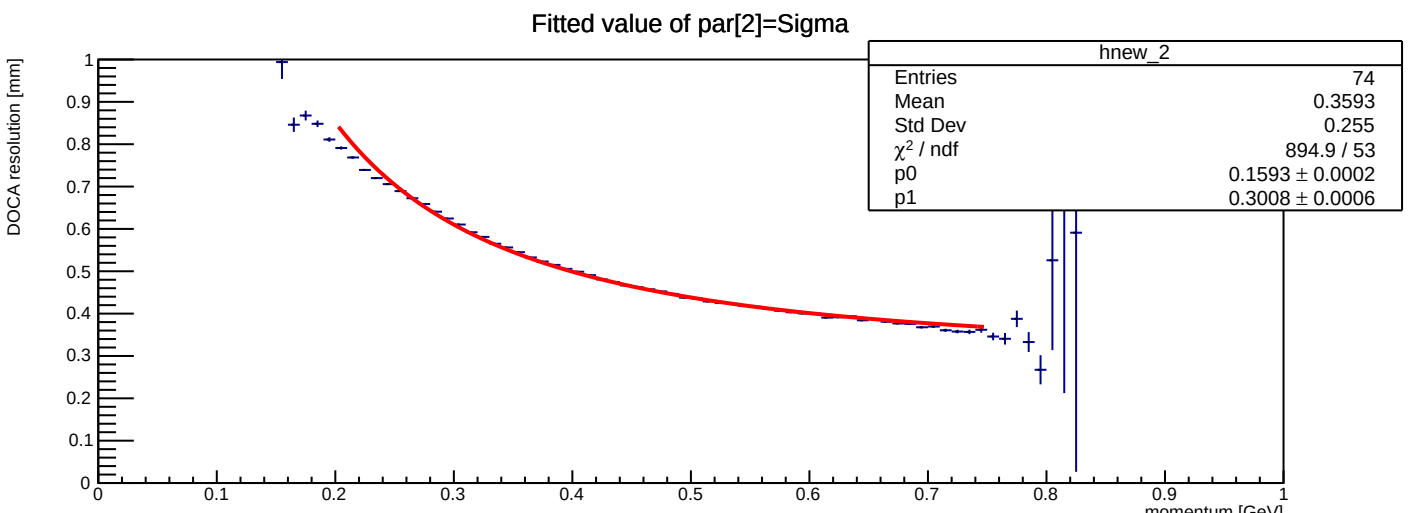

Bottom Positron Y DOCA
hnew
Entries 2271577
Mean x 0.3909
Mean y −0.0114
Std Dev x 0.1214
Std Dev y 0.2896
DOCA [mm]
momentum [GeV]

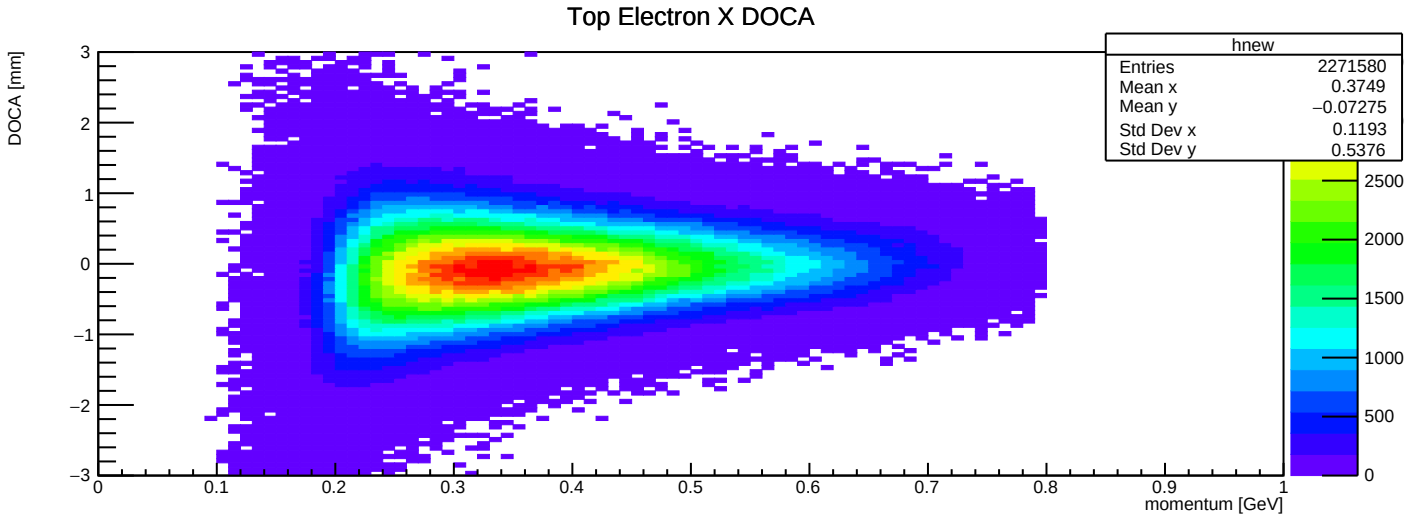

Fitted value of par[2]=Sigma
hnew_2
Entries 74
Mean 0.3181
Std Dev 0.2607
χ² / ndf 333 / 53
p0 0.095 ± 0.000
p1 0.06129 ± 0.00078
DOCA resolution [mm]
momentum [GeV]

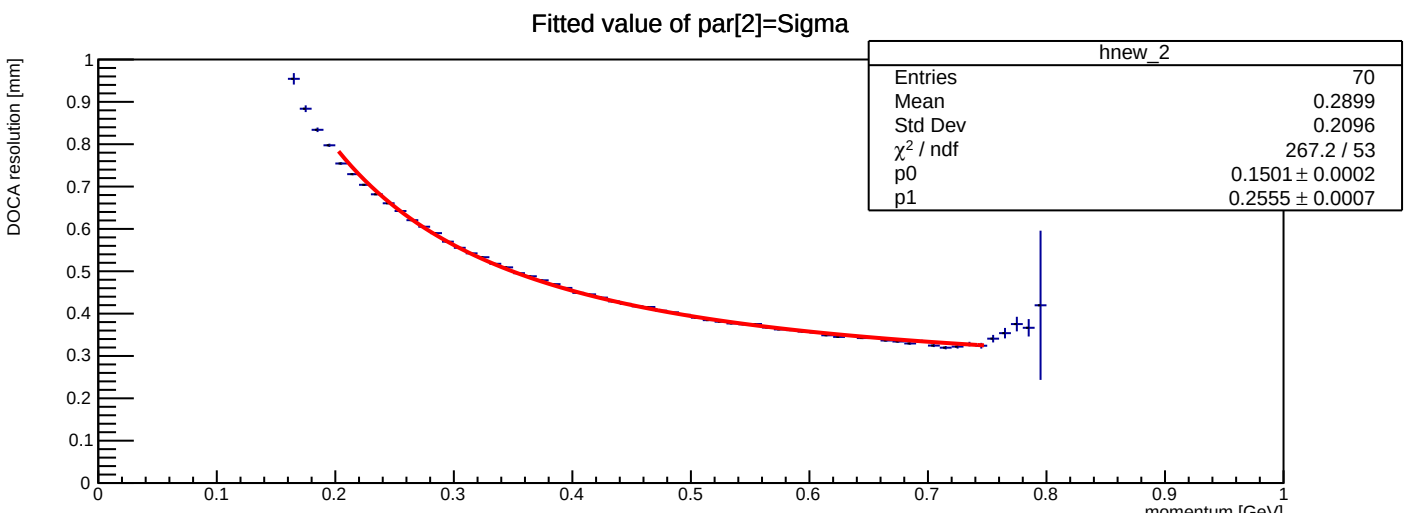

Electron X DOCA
DOCA [mm]
momentum [GeV]
hnew
Entries 4423214
Mean x 0.377
Mean y −0.08734
Std Dev x 0.1204
Std Dev y 0.561

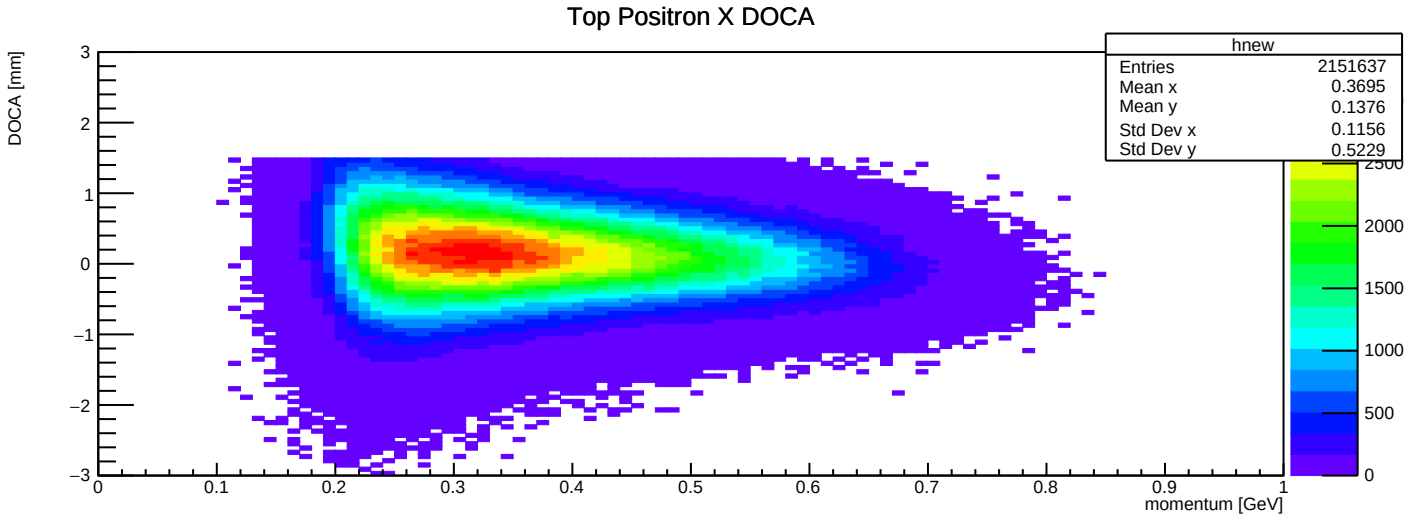

Fitted value of par[2]=Sigma
DOCA resolution [mm]
momentum [GeV]
hnew_2
Entries 70
Mean 0.2933
Std Dev 0.2105
χ² / ndf 515.8 / 53
p0 0.1579 ± 0.0001
p1 0.2591 ± 0.0005

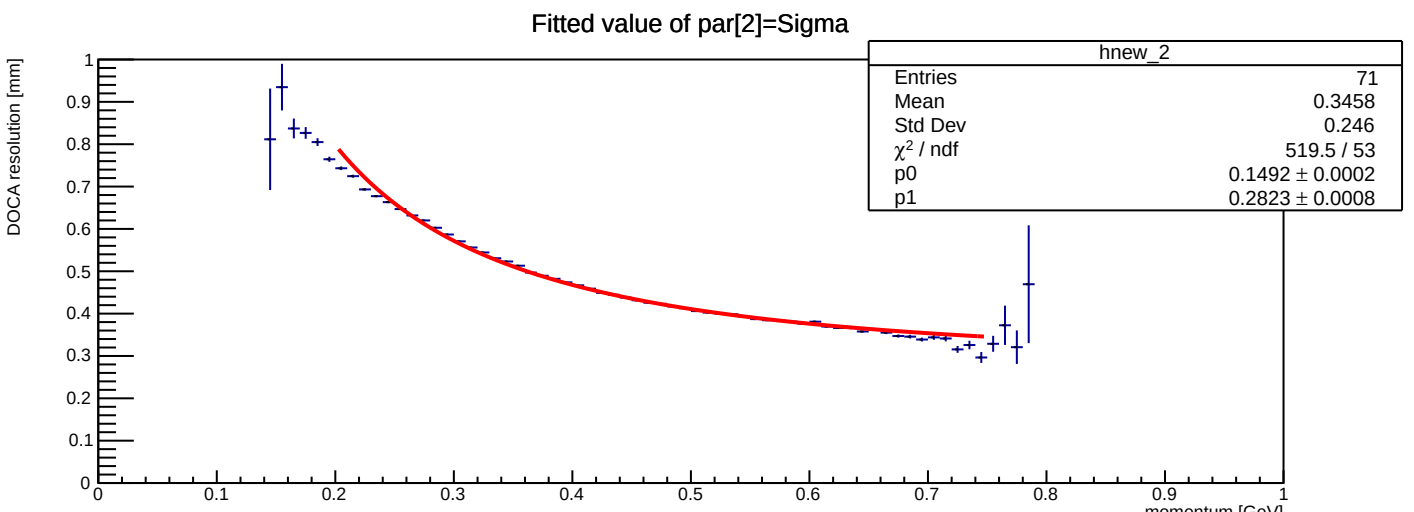

Positron X DOCA
hnew
Entries 4423214
Mean x 0.3805
Mean y 0.1201
Std Dev x 0.1191
Std Dev y 0.5423
DOCA [mm]
momentum [GeV]

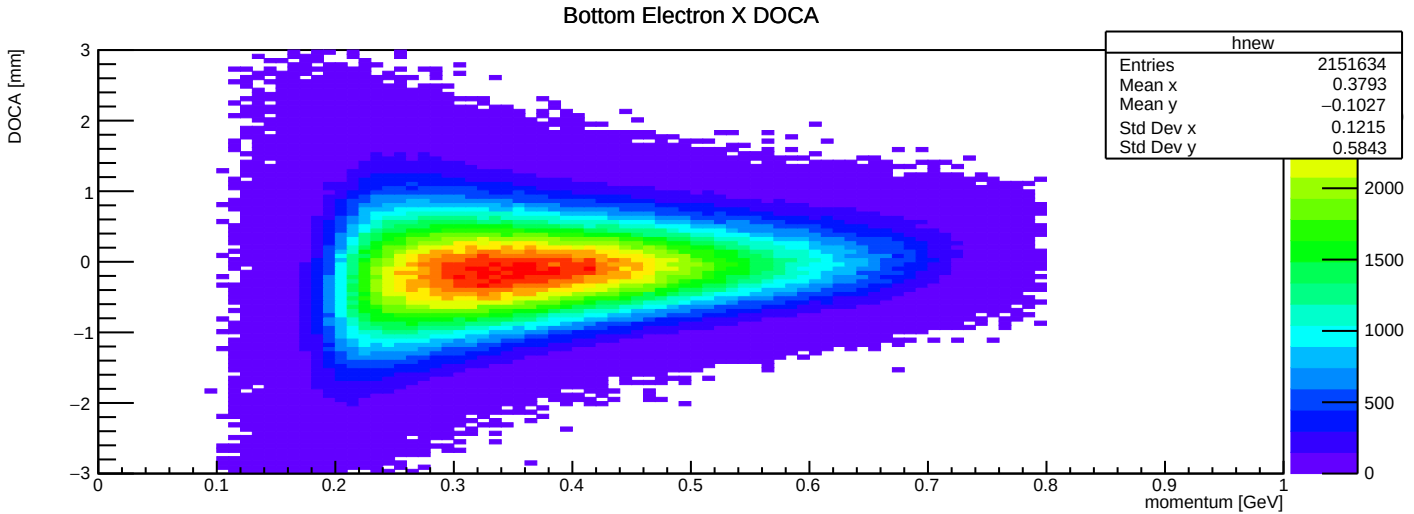

Fitted value of par[2]=Sigma
hnew_2
Entries 74
Mean 0.3593
Std Dev 0.255
χ² / ndf 894.9 / 53
p0 0.1593 ± 0.0002
p1 0.3008 ± 0.0006
DOCA resolution [mm]
momentum [GeV]

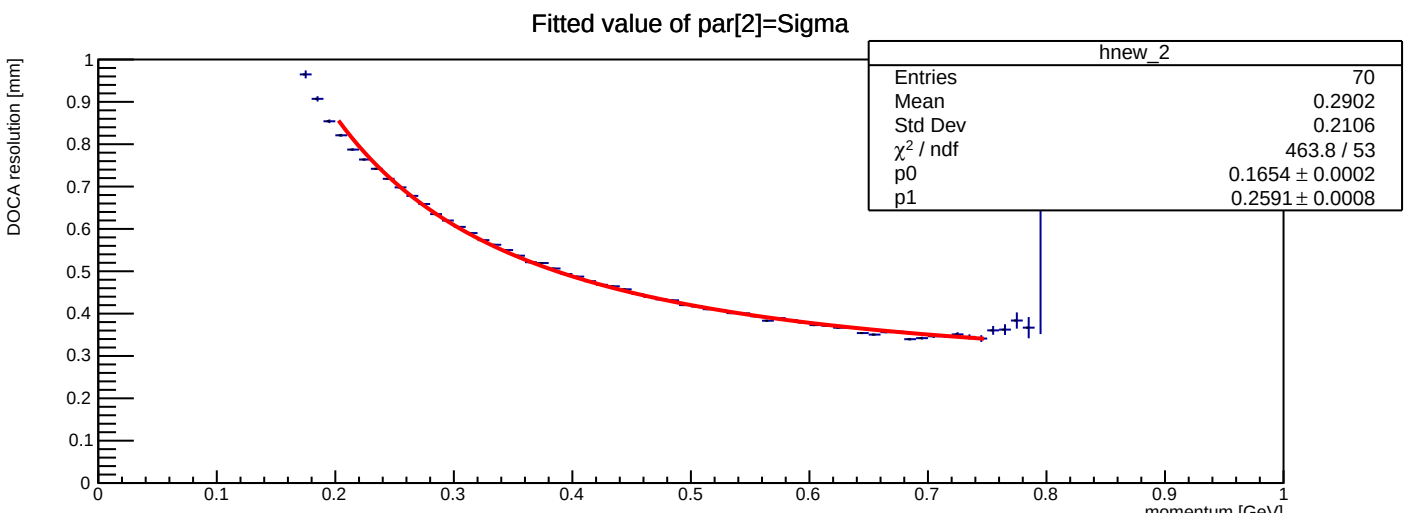

Top Electron X DOCA
DOCA [mm]
momentum [GeV]
hnew
Entries 2271580
Mean x 0.3749
Mean y −0.07275
Std Dev x 0.1193
Std Dev y 0.5376

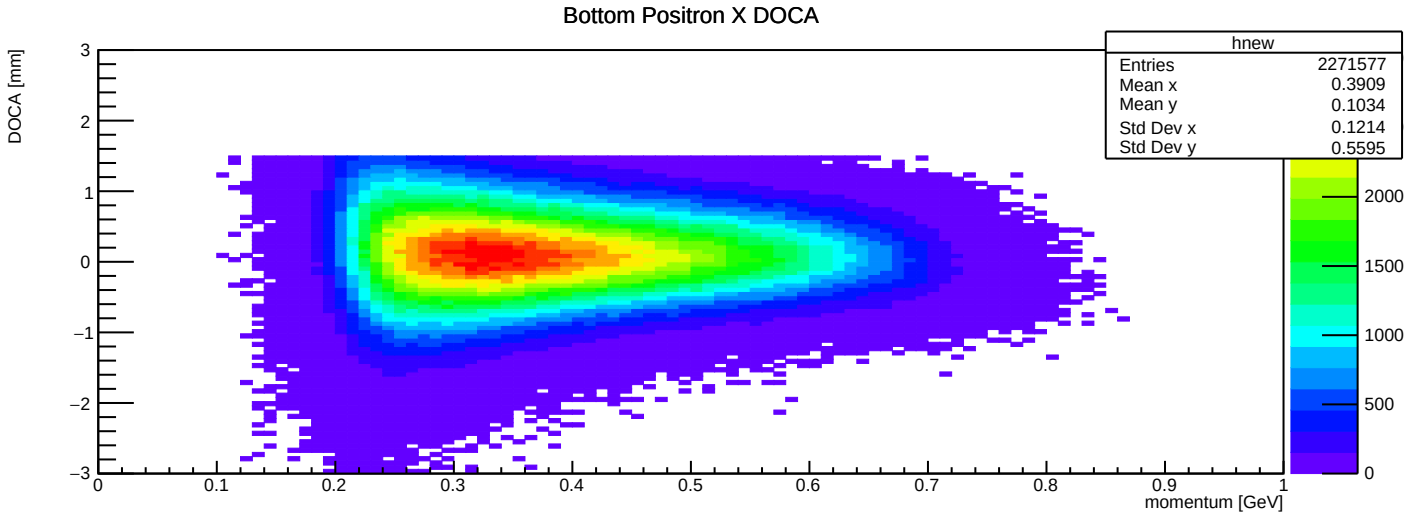

Fitted value of par[2]=Sigma
DOCA resolution [mm]
momentum [GeV]
hnew_2
Entries 70
Mean 0.2899
Std Dev 0.2096
χ² / ndf 267.2 / 53
p0 0.1501 ± 0.0002
p1 0.2555 ± 0.0007

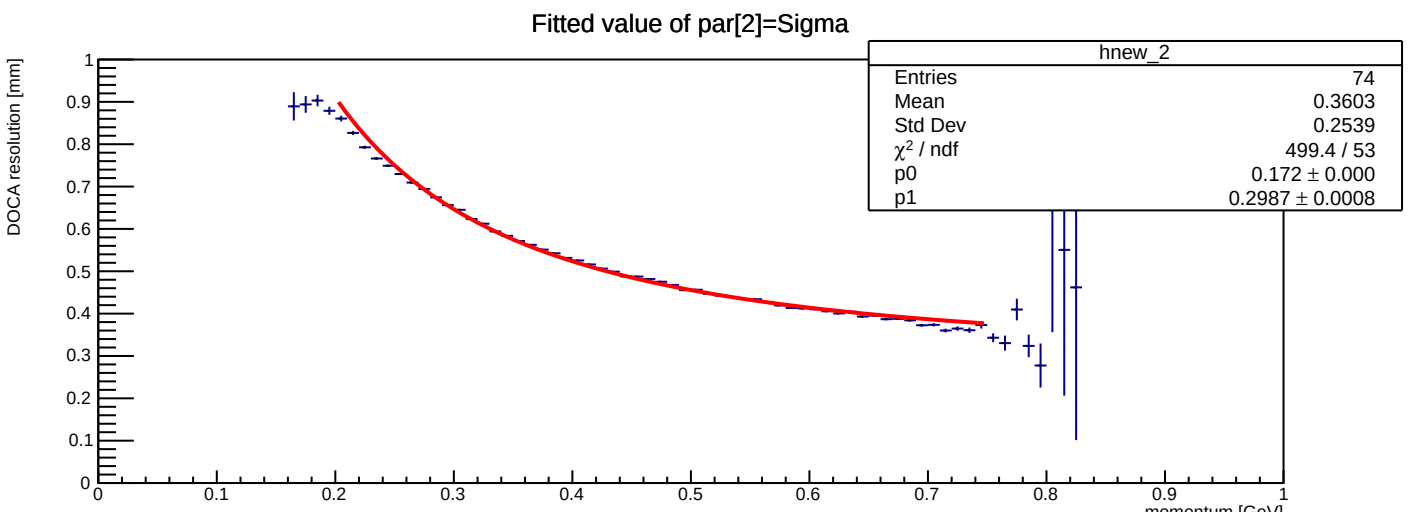

Top Positron X DOCA
hnew
Entries 2151637
Mean x 0.3695
Mean y 0.1376
Std Dev x 0.1156
Std Dev y 0.5229
DOCA [mm]
momentum [GeV]

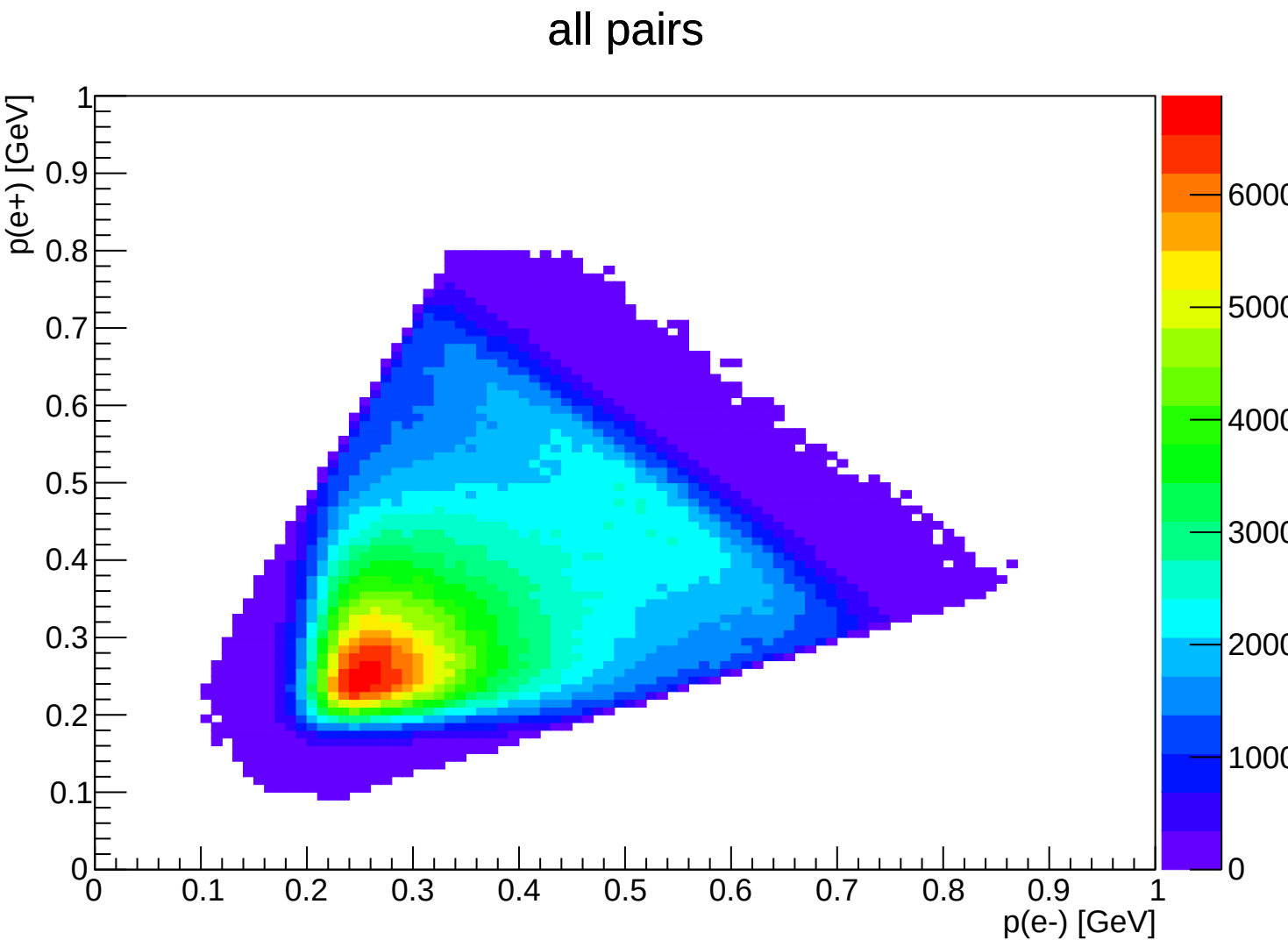

Fitted value of par[2]=Sigma
hnew_2
Entries 71
Mean 0.3458
Std Dev 0.246
χ² / ndf 519.5 / 53
p0 0.1492 ± 0.0002
p1 0.2823 ± 0.0008
DOCA resolution [mm]
momentum [GeV]

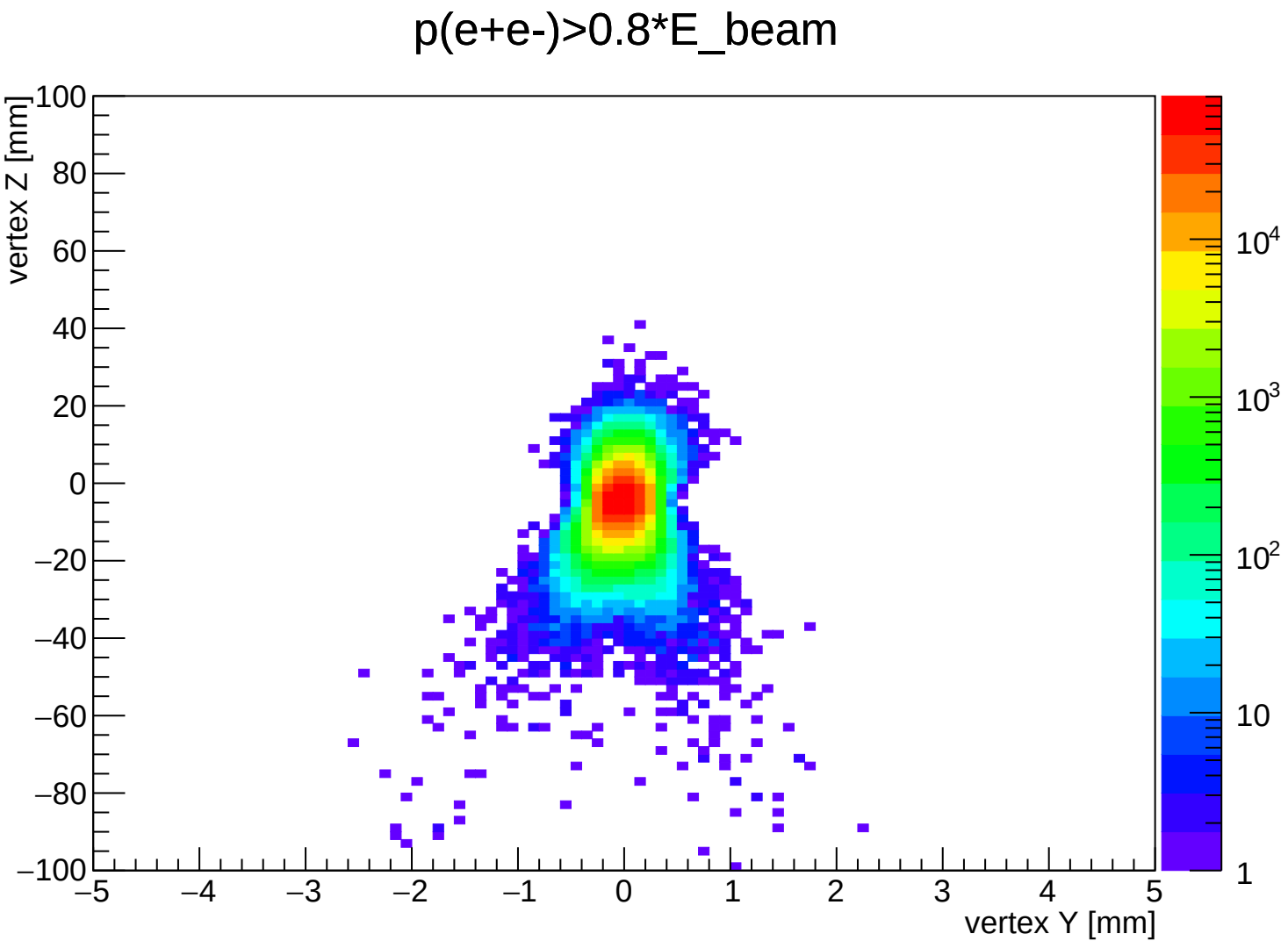

Bottom Electron X DOCA
hnew
Entries 2151634
Mean x 0.3793
Mean y −0.1027
Std Dev x 0.1215
Std Dev y 0.5843
DOCA [mm]
momentum [GeV]

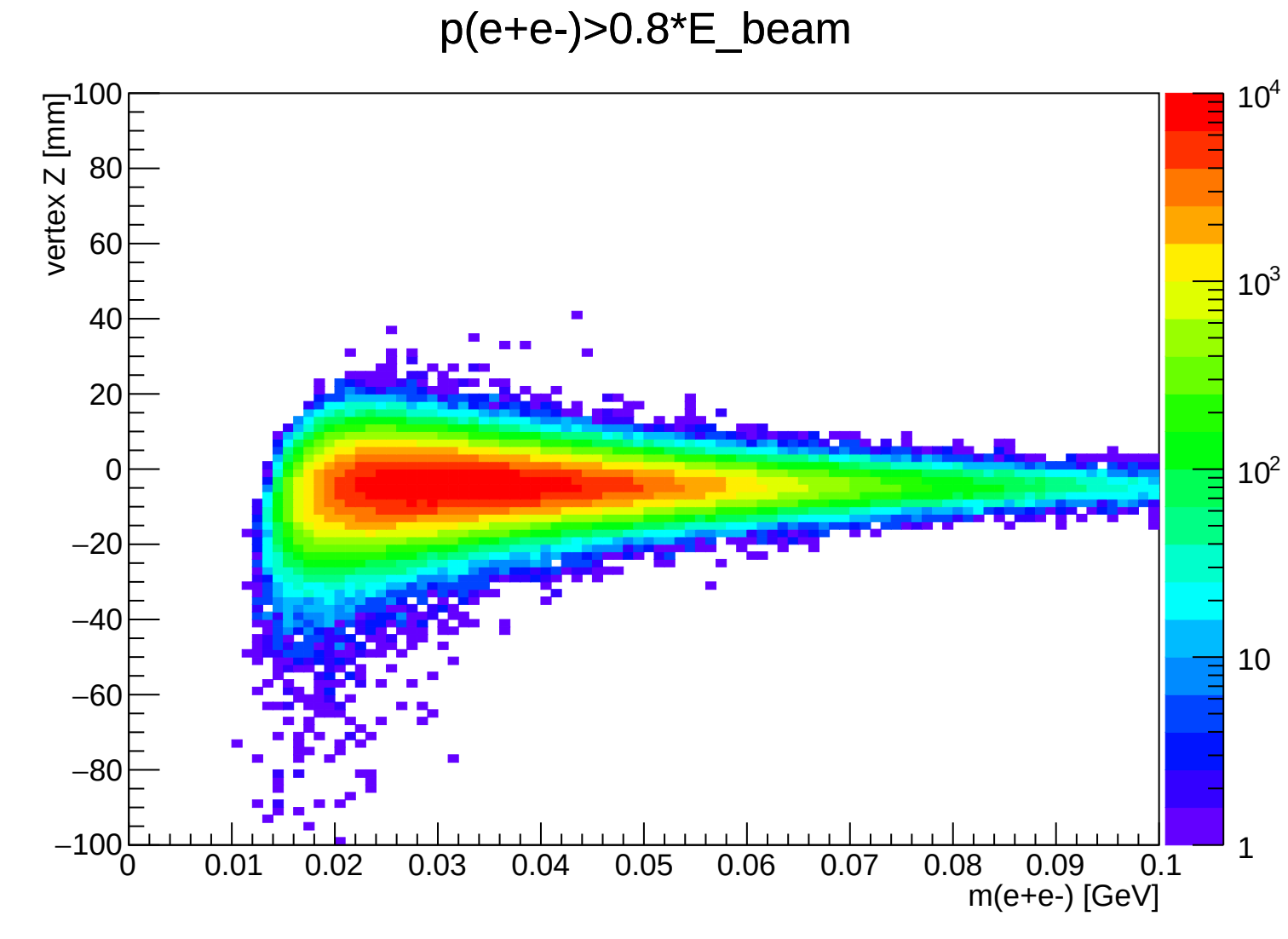

Fitted value of par[2]=Sigma
hnew_2
Entries 70
Mean 0.2902
Std Dev 0.2106
χ² / ndf 463.8 / 53
p0 0.1654 ± 0.0002
p1 0.2591 ± 0.0008
DOCA resolution [mm]
momentum [GeV]


Bottom Positron X DOCA
hnew
Entries 2271577
Mean x 0.3909
Mean y 0.1034
Std Dev x 0.1214
Std Dev y 0.5595
DOCA [mm]
momentum [GeV]


Fitted value of par[2]=Sigma
hnew_2
Entries 74
Mean 0.3603
Std Dev 0.2539
χ² / ndf 499.4 / 53
p0 0.172 ± 0.000
p1 0.2987 ± 0.0008
DOCA resolution [mm]
momentum [GeV]


all pairs
p(e+) [GeV]
p(e-) [GeV]
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
6000
5000
4000
3000
2000
1000
0


p(e+e-)>0.8*E_beam
vertex Z [mm]
vertex Y [mm]
100
80
60
40
20
0
−20
−40
−60
−80
−100
−5
−4
−3
−2
−1
0
1
2
3
4
5
10^4
10^3
10^2
10
1


p(e+e-)>0.8*E_beam
vertex Z [mm]
100
80
60
40
20
0
−20
−40
−60
−80
−100
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.1
m(e+e-) [GeV]
10^4
10^3
10^2
10
1