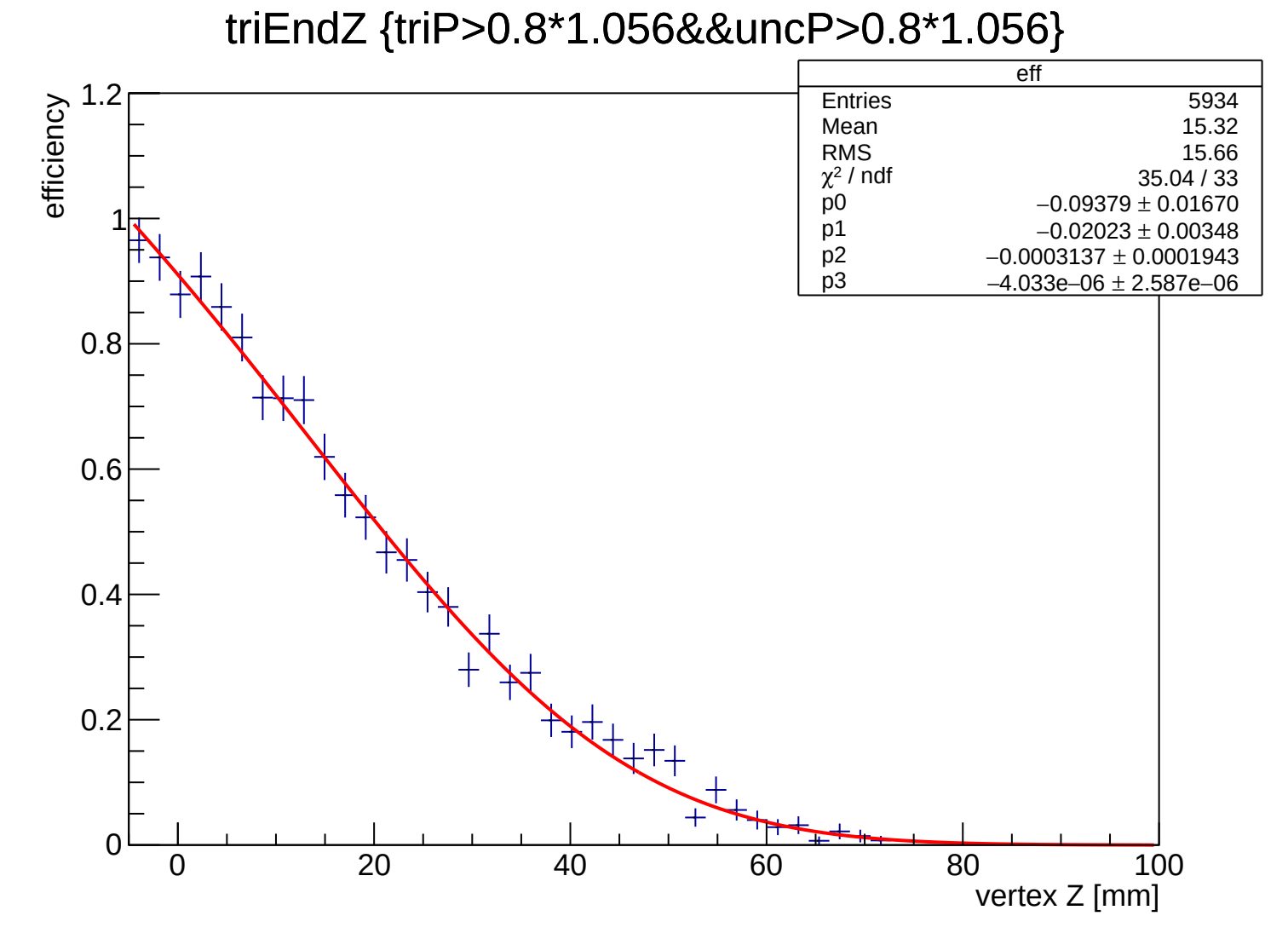
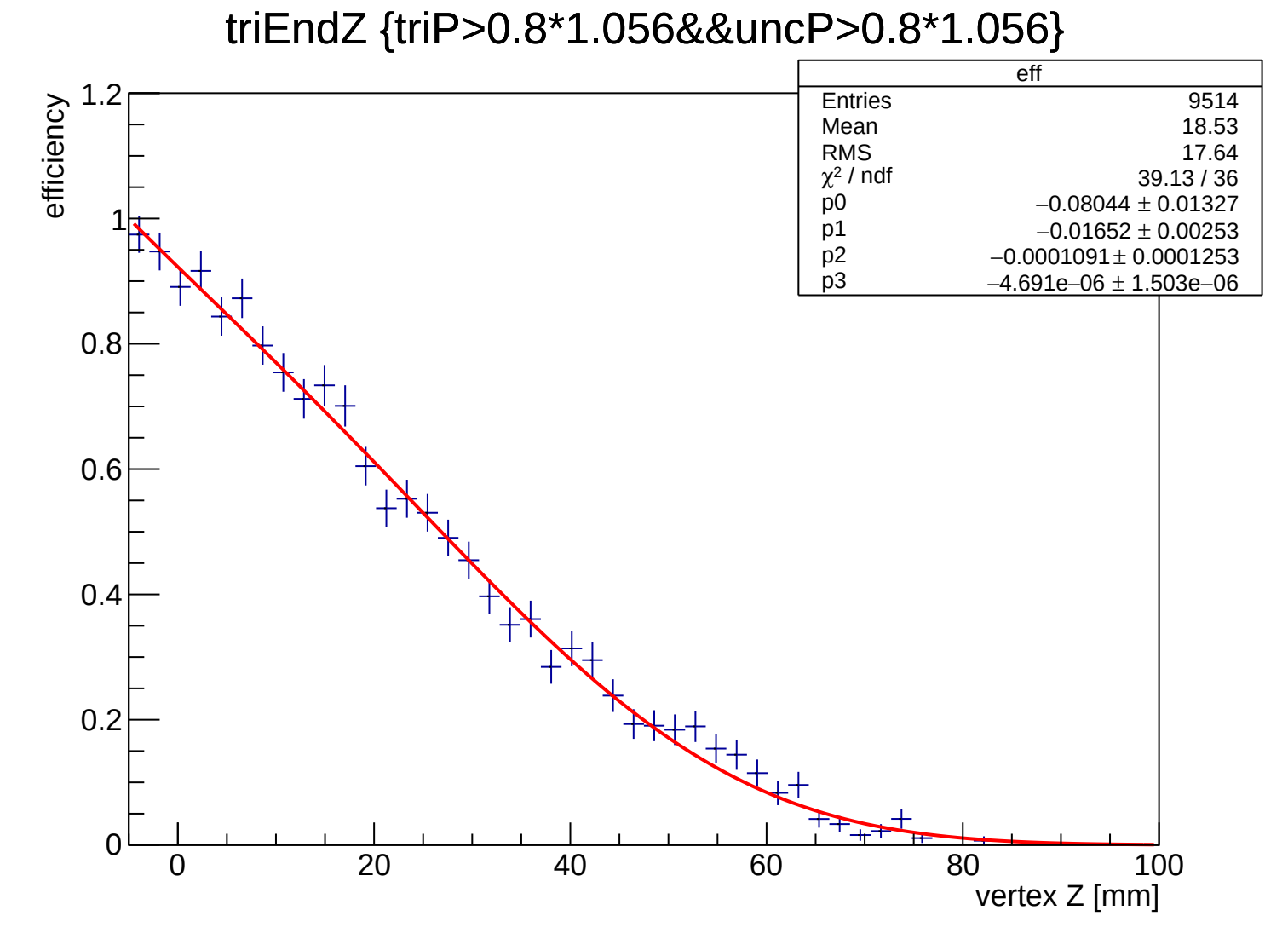
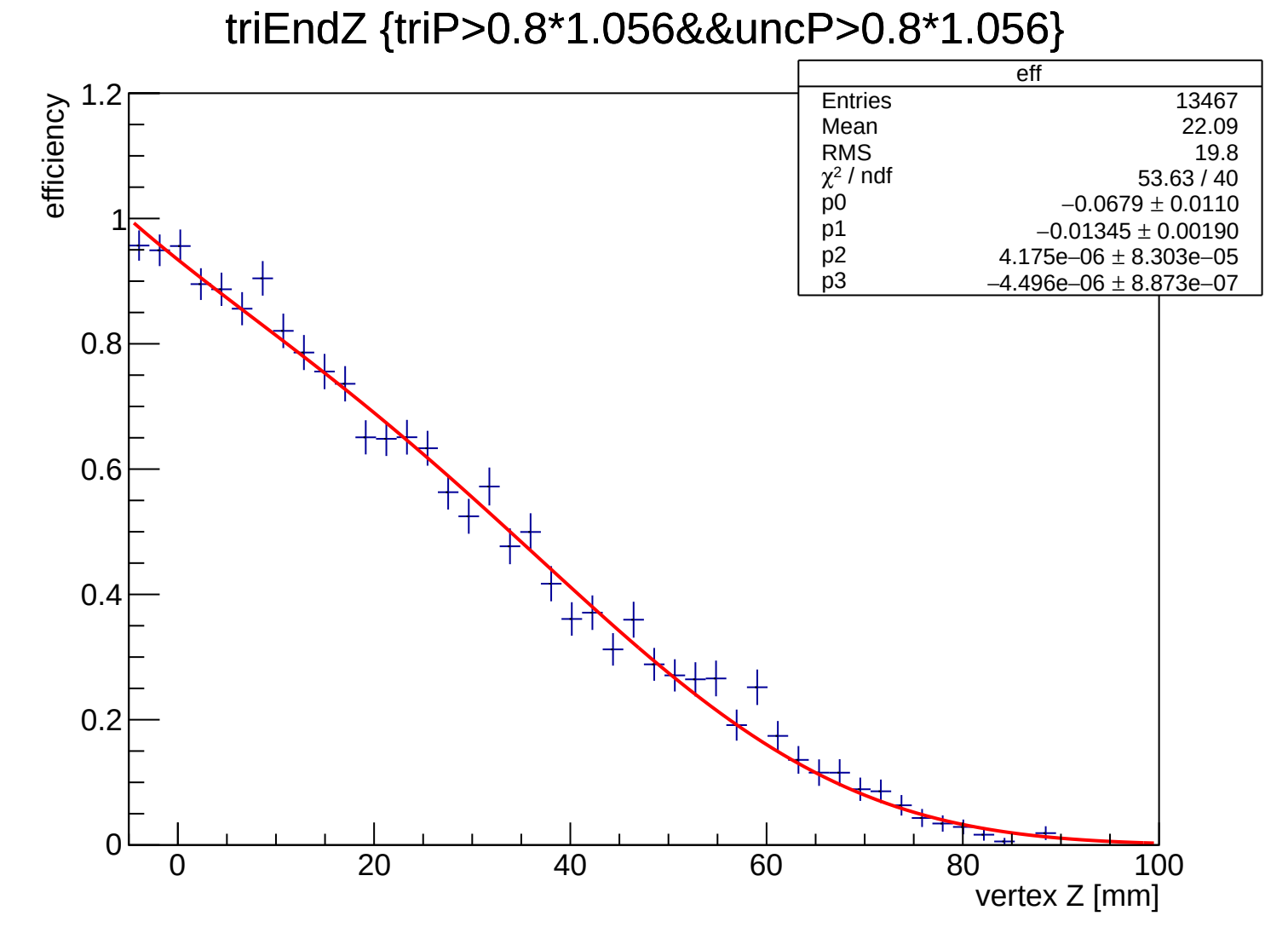
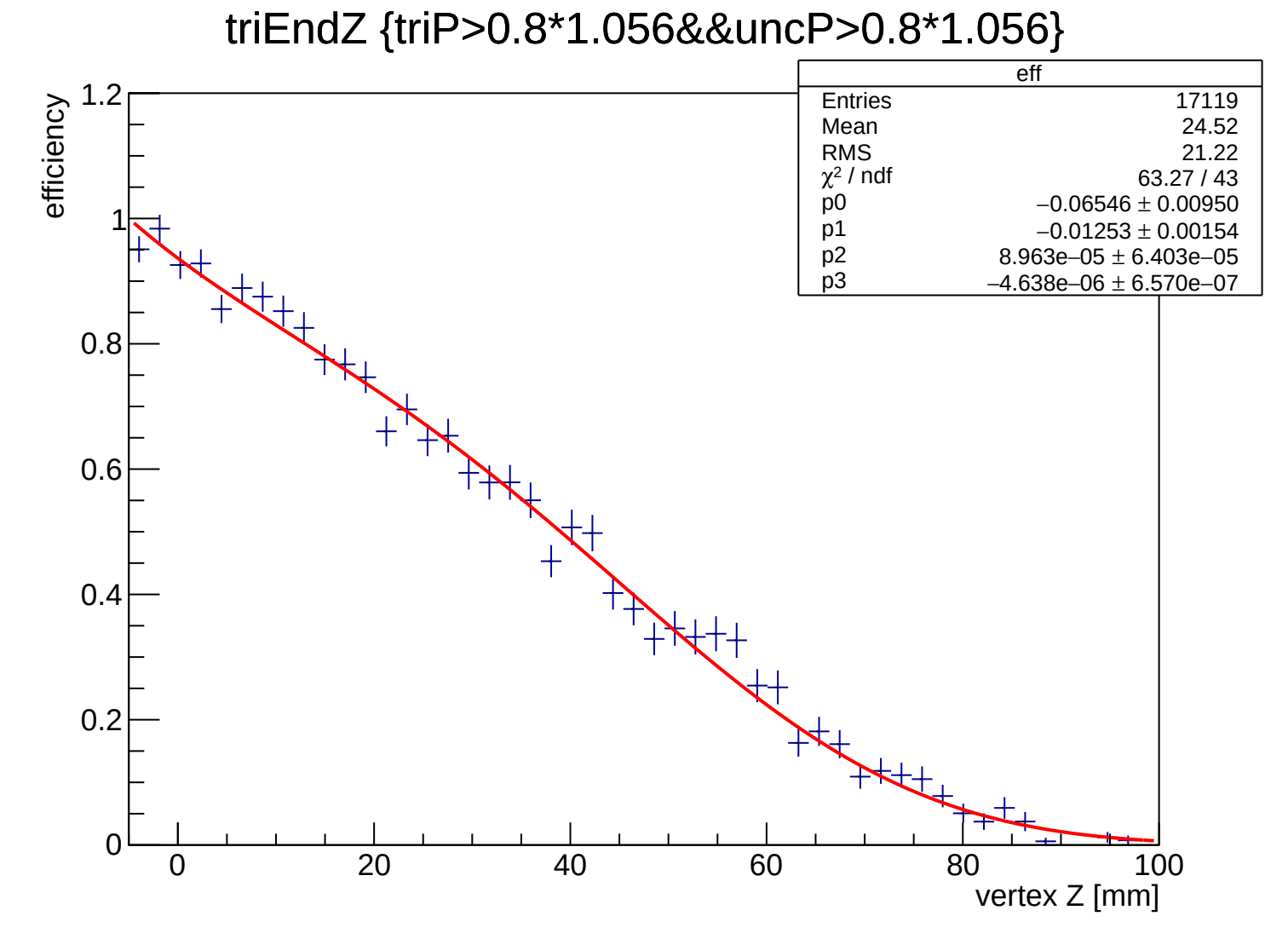
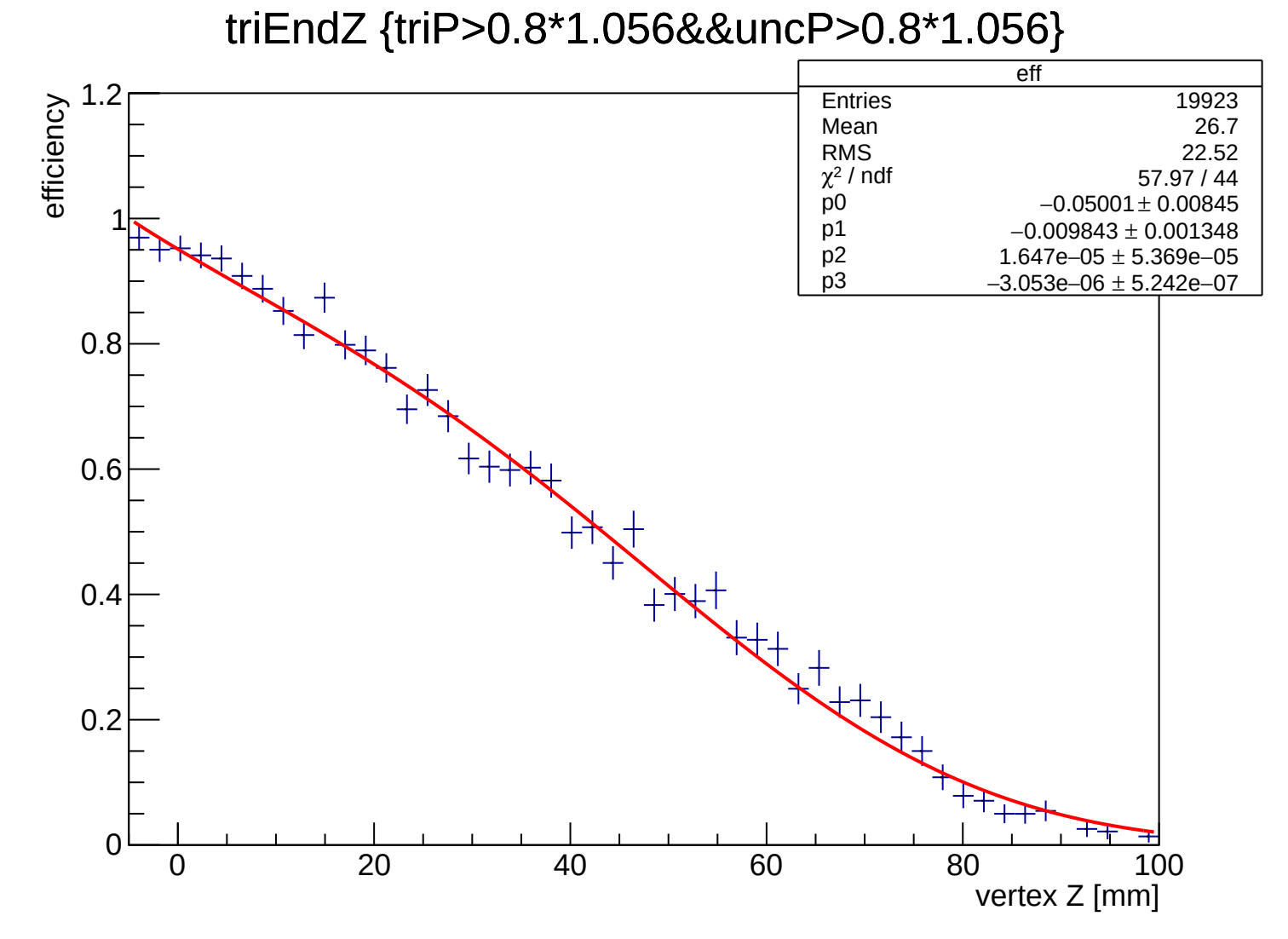
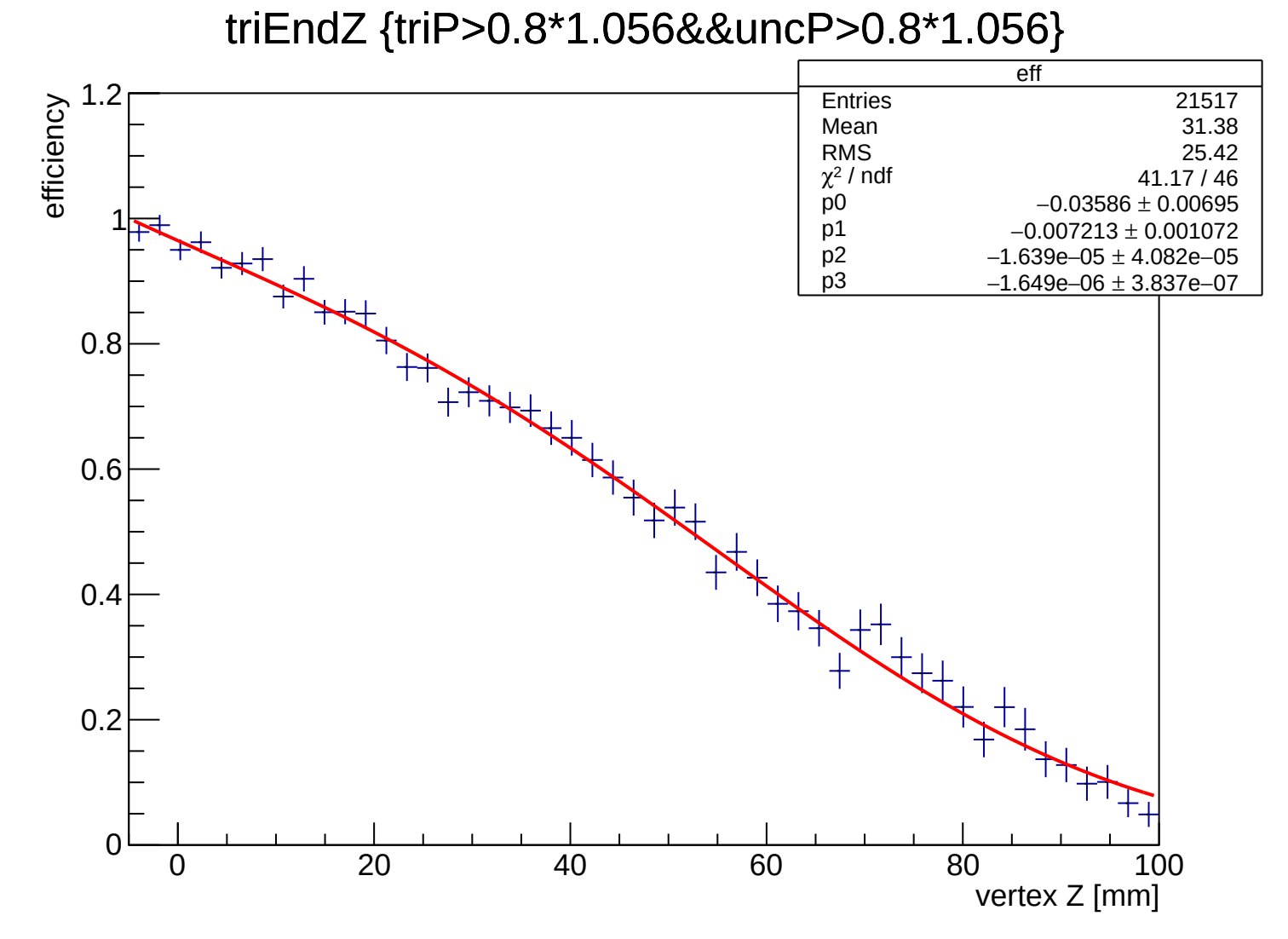

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 5934
Mean 15.32
RMS 15.66
χ² / ndf 35.04 / 33
p0 −0.09379 ± 0.01670
p1 −0.02023 ± 0.00348
p2 −0.0003137 ± 0.0001943
p3 −4.033e−06 ± 2.587e−06
efficiency
vertex Z [mm]
0
0.2
0.4
0.6
0.8
1
1.2
0
20
40
60
80
100

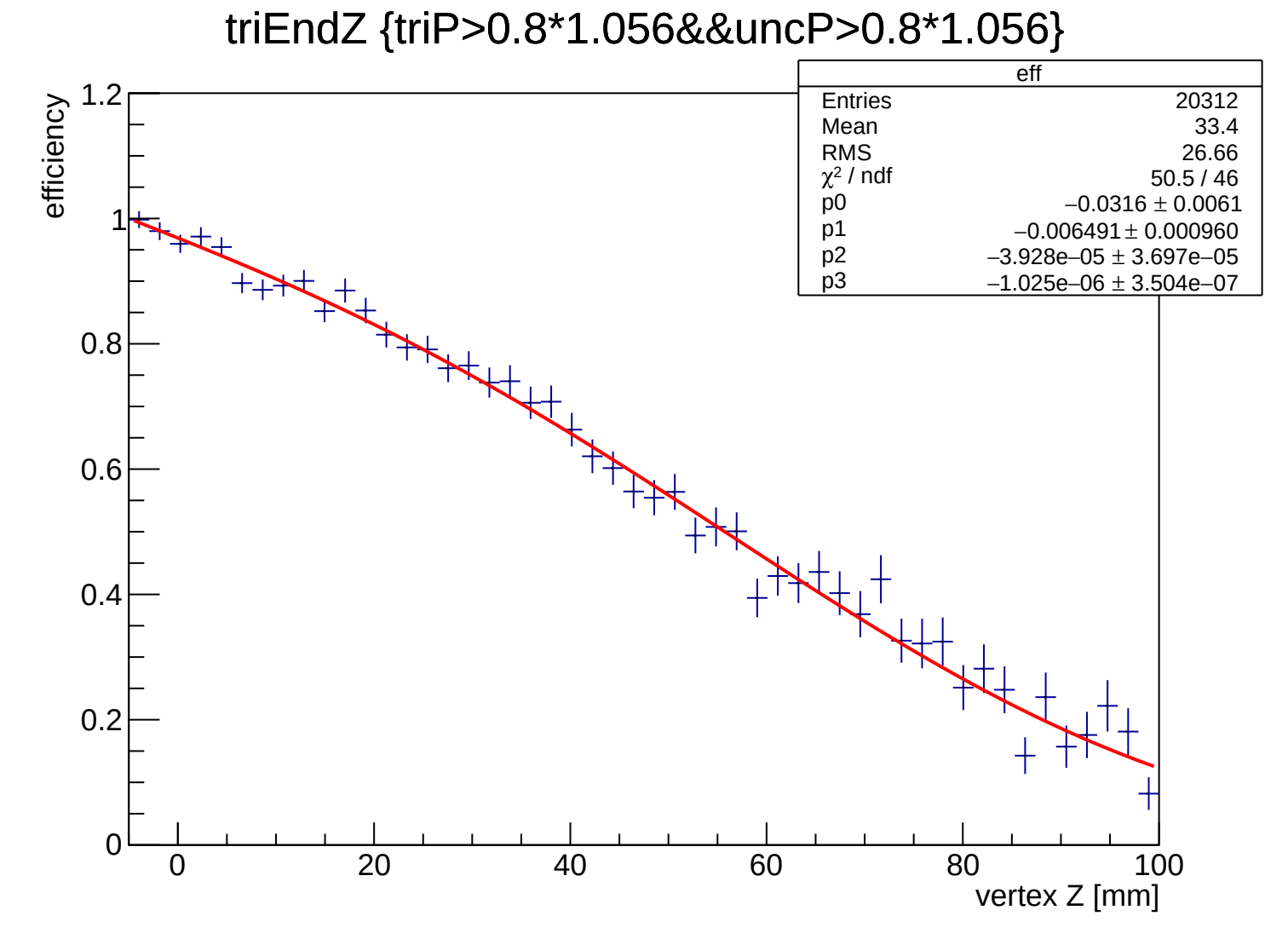

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 9514
Mean 18.53
RMS 17.64
χ² / ndf 39.13 / 36
p0 −0.08044 ± 0.01327
p1 −0.01652 ± 0.00253
p2 −0.0001091 ± 0.0001253
p3 −4.691e−06 ± 1.503e−06
efficiency
vertex Z [mm]
0
0.2
0.4
0.6
0.8
1
1.2
0
20
40
60
80
100

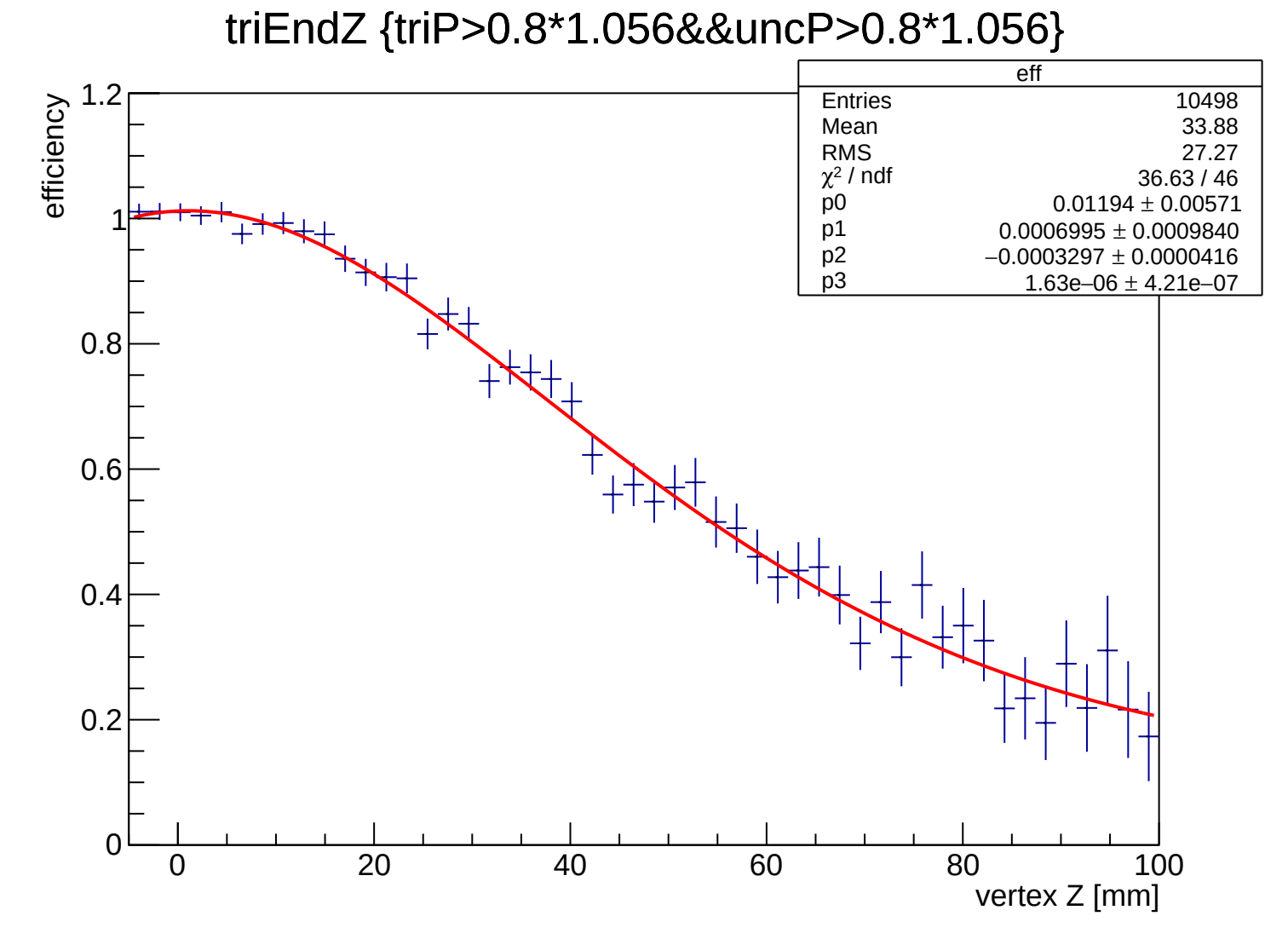

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 13467
Mean 22.09
RMS 19.8
χ² / ndf 53.63 / 40
p0 −0.0679 ± 0.0110
p1 −0.01345 ± 0.00190
p2 4.175e−06 ± 8.303e−05
p3 −4.496e−06 ± 8.873e−07
efficiency
vertex Z [mm]
0
0.2
0.4
0.6
0.8
1
1.2
0
20
40
60
80
100

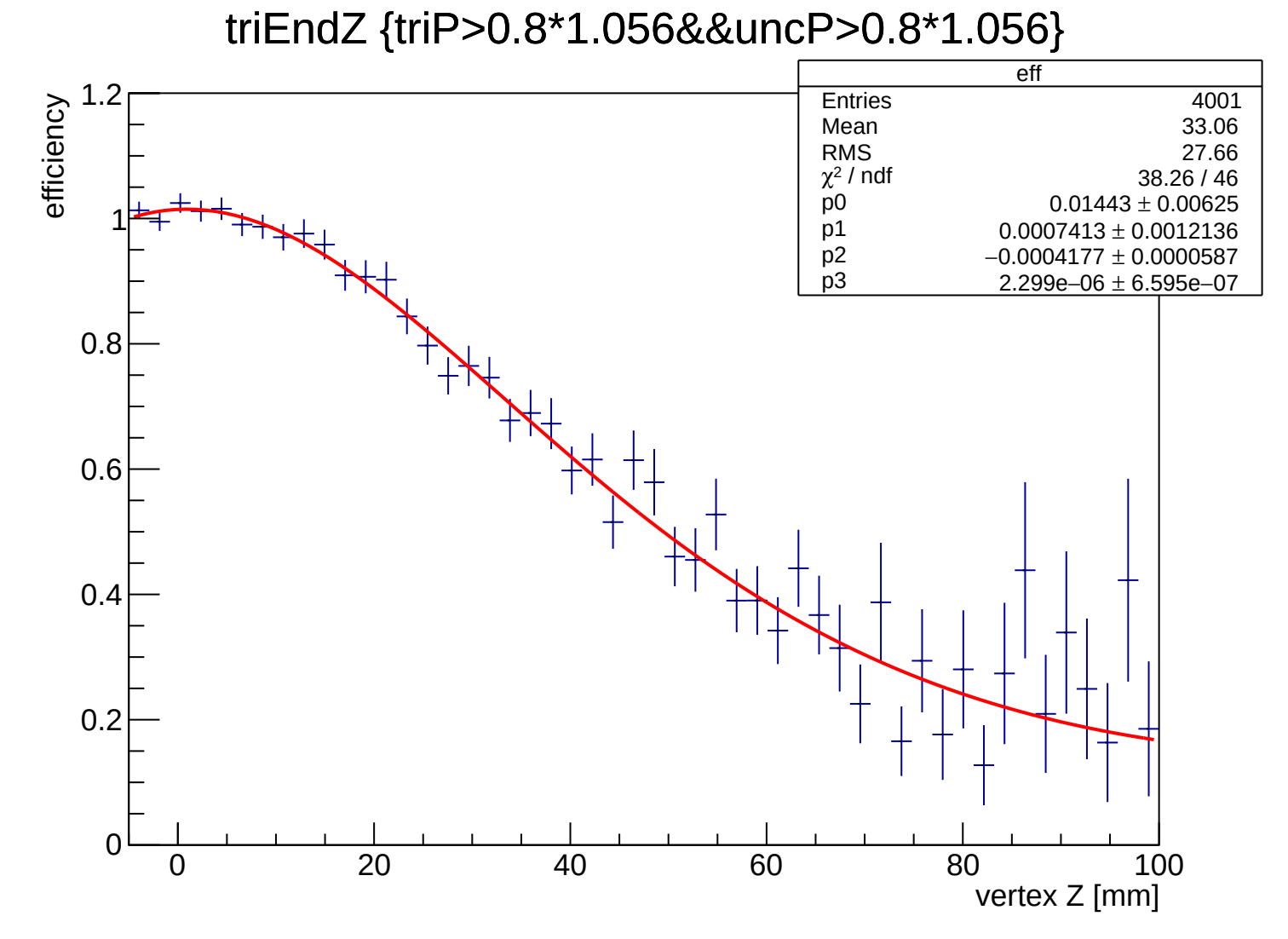

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 17119
Mean 24.52
RMS 21.22
χ² / ndf 63.27 / 43
p0 −0.06546 ± 0.00950
p1 −0.01253 ± 0.00154
p2 8.963e−05 ± 6.403e−05
p3 −4.638e−06 ± 6.570e−07
efficiency
vertex Z [mm]
0
0.2
0.4
0.6
0.8
1
1.2
0
20
40
60
80
100

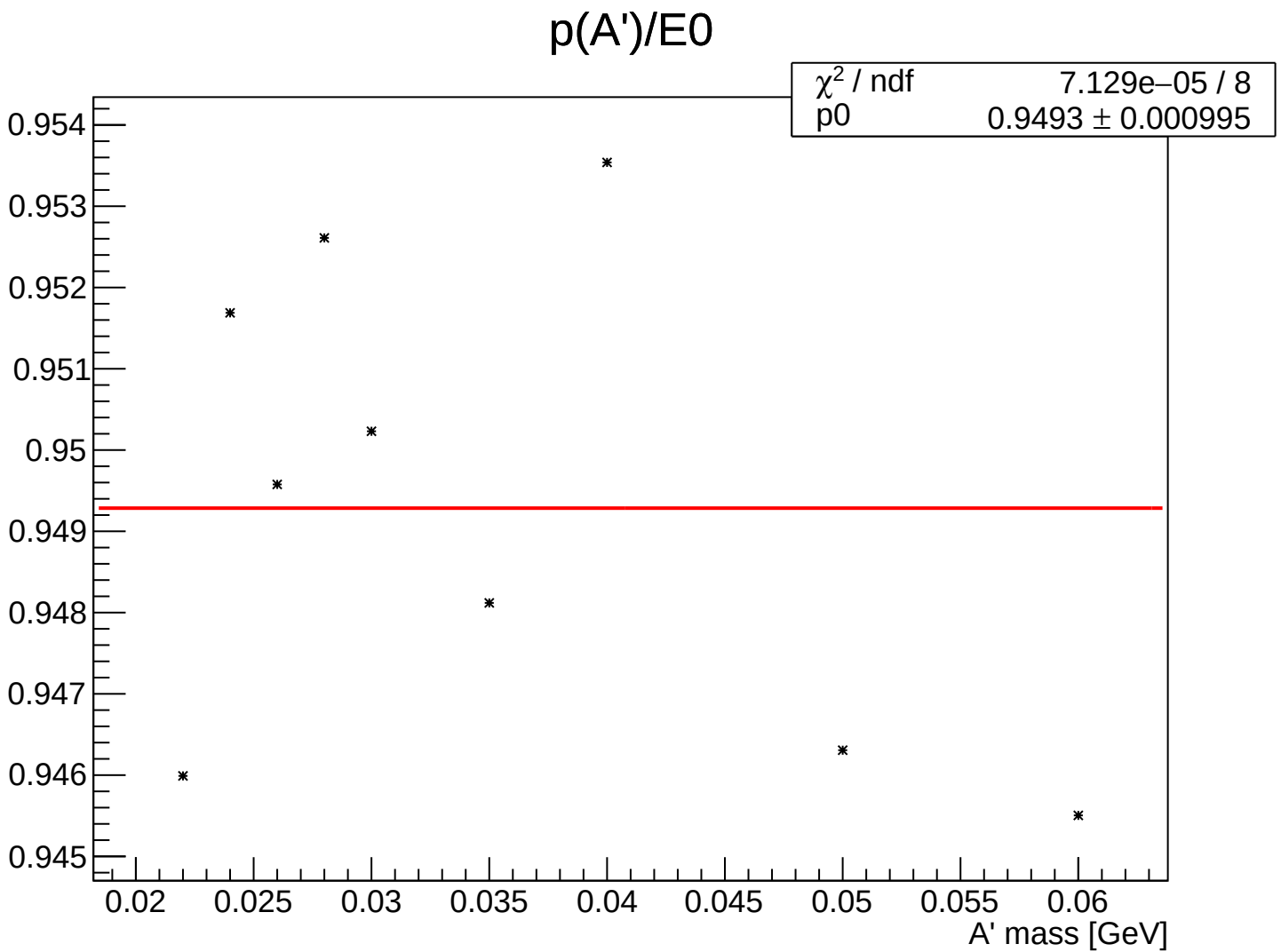

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 19923
Mean 26.7
RMS 22.52
χ² / ndf 57.97 / 44
p0 −0.05001 ± 0.00845
p1 −0.009843 ± 0.001348
p2 1.647e−05 ± 5.369e−05
p3 −3.053e−06 ± 5.242e−07
efficiency
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
vertex Z [mm]

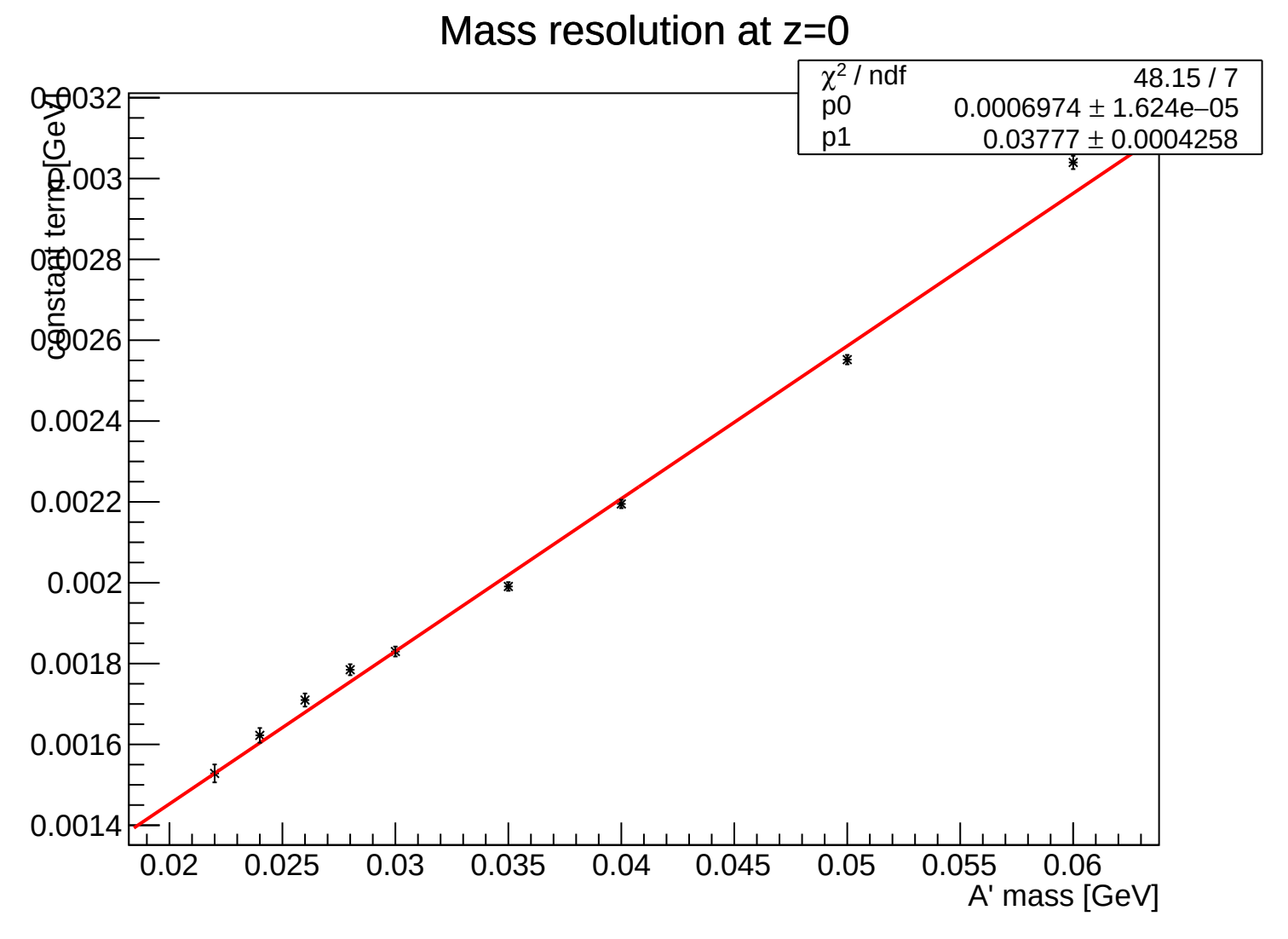

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 21517
Mean 31.38
RMS 25.42
χ² / ndf 41.17 / 46
p0 −0.03586 ± 0.00695
p1 −0.007213 ± 0.001072
p2 −1.639e−05 ± 4.082e−05
p3 −1.649e−06 ± 3.837e−07
efficiency
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
vertex Z [mm]

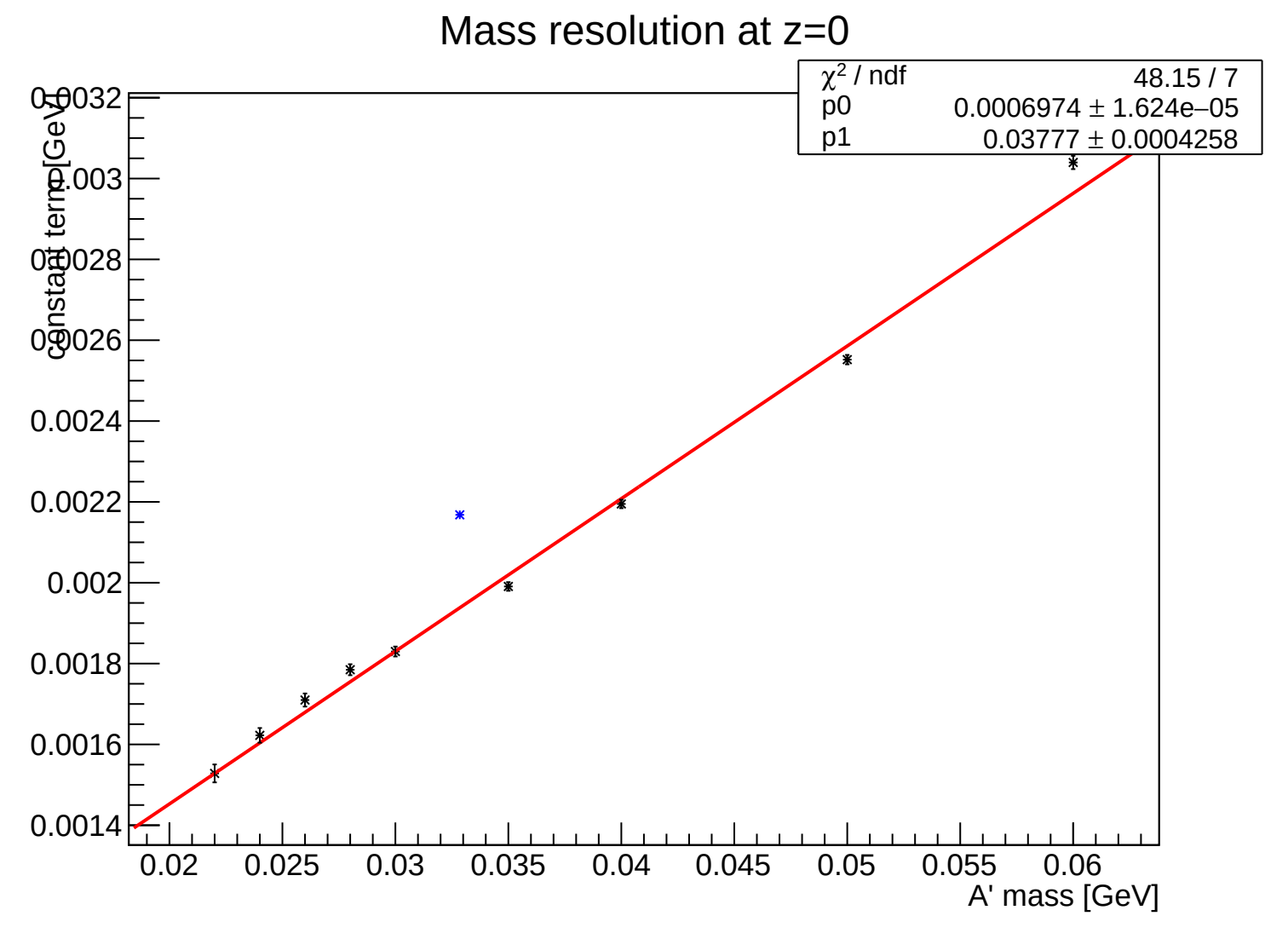

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 20312
Mean 33.4
RMS 26.66
χ² / ndf 50.5 / 46
p0 −0.0316 ± 0.0061
p1 −0.006491 ± 0.000960
p2 −3.928e−05 ± 3.697e−05
p3 −1.025e−06 ± 3.504e−07
efficiency
1.2
1
0.8
0.6
0.4
0.2
0
0
20
40
60
80
100
vertex Z [mm]

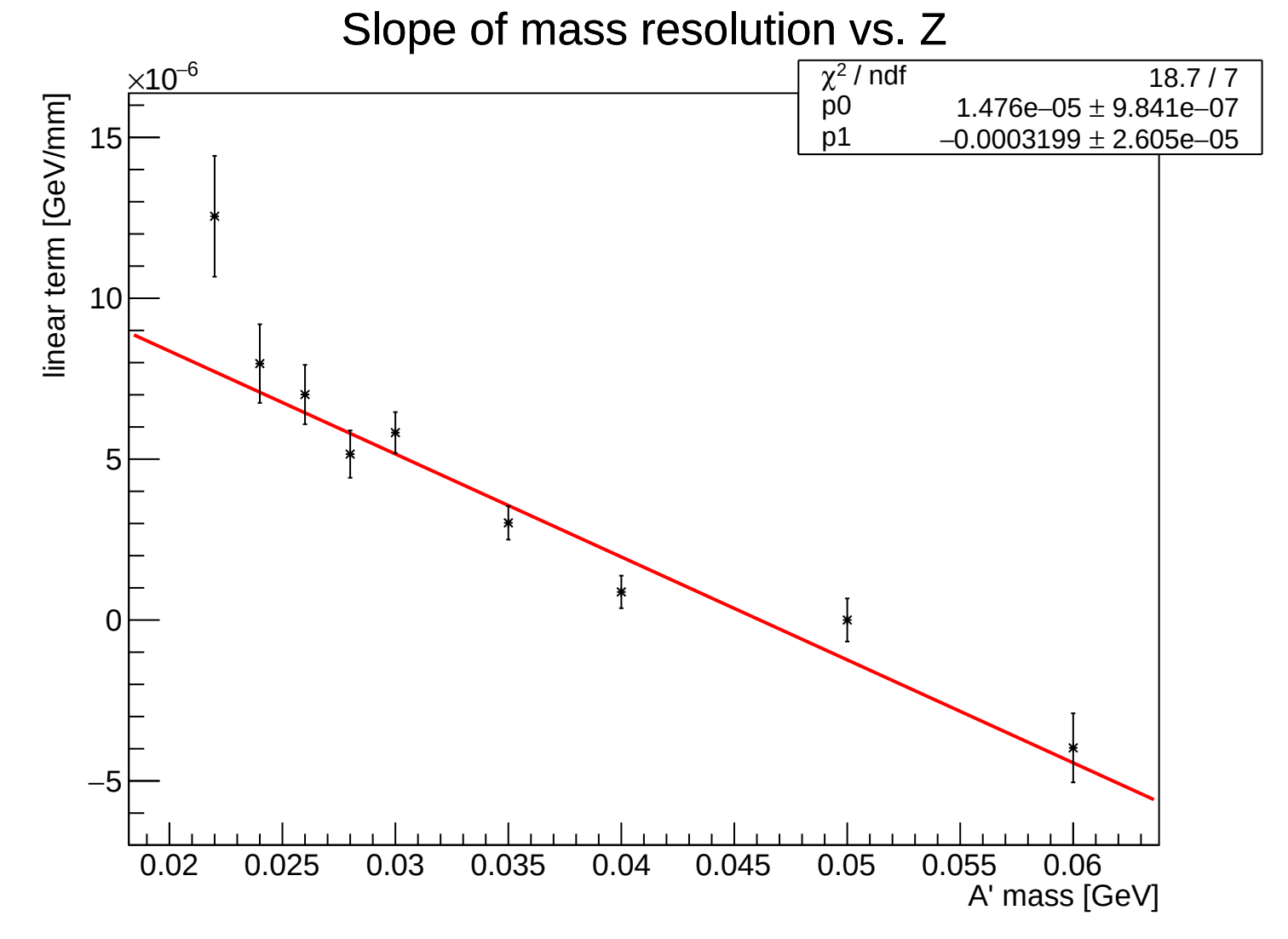

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 10498
Mean 33.88
RMS 27.27
χ² / ndf 36.63 / 46
p0 0.01194 ± 0.00571
p1 0.0006995 ± 0.0009840
p2 −0.0003297 ± 0.0000416
p3 1.63e−06 ± 4.21e−07
efficiency
vertex Z [mm]
0
0.2
0.4
0.6
0.8
1
1.2
0
20
40
60
80
100

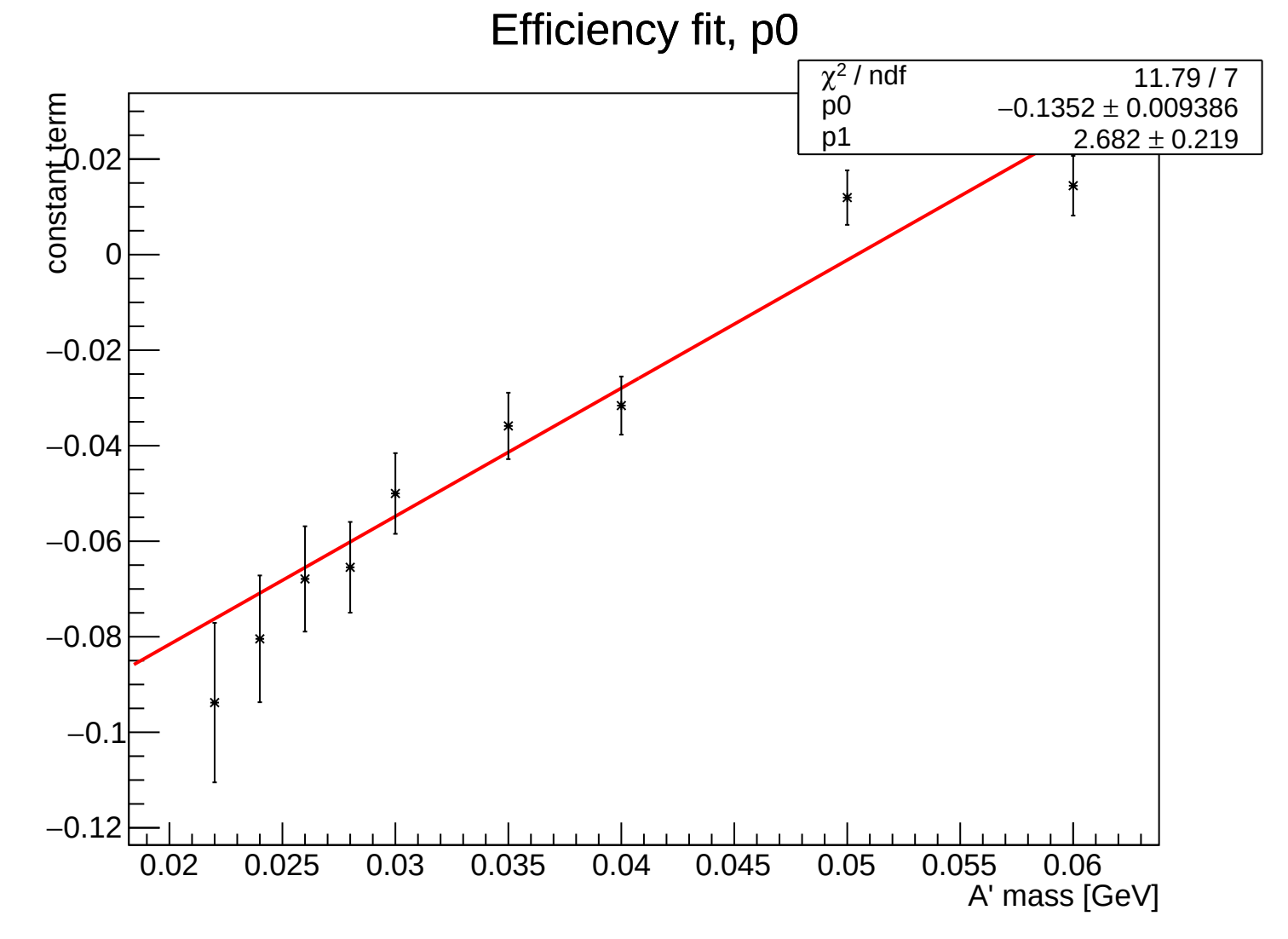

triEndZ {triP>0.8*1.056&&uncP>0.8*1.056}
eff
Entries 4001
Mean 33.06
RMS 27.66
χ² / ndf 38.26 / 46
p0 0.01443 ± 0.00625
p1 0.0007413 ± 0.0012136
p2 −0.0004177 ± 0.0000587
p3 2.299e−06 ± 6.595e−07
efficiency
vertex Z [mm]
0
0.2
0.4
0.6
0.8
1
1.2
0
20
40
60
80
100

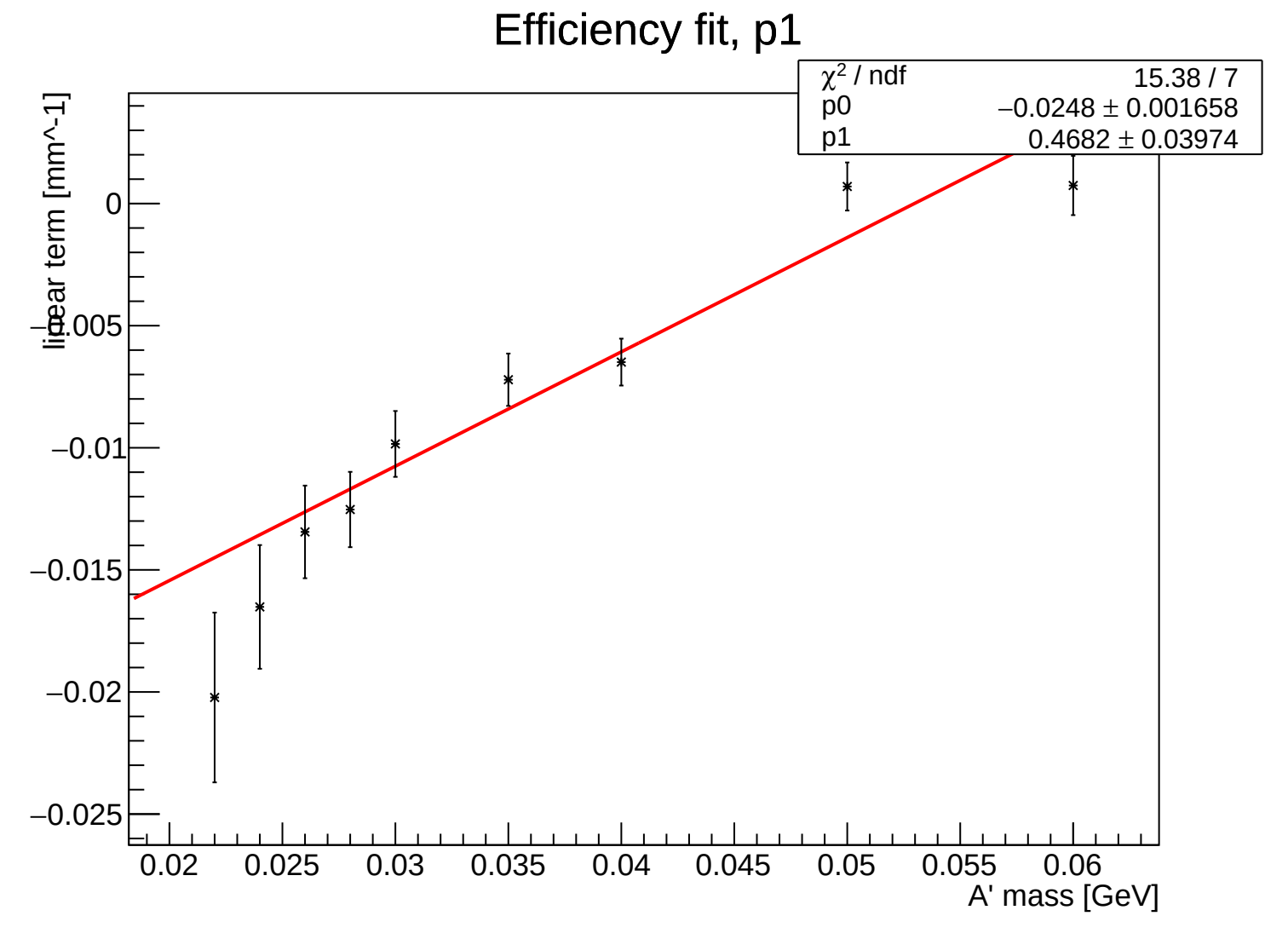

p(A')/E0
χ² / ndf 7.129e−05 / 8
p0 0.9493 ± 0.000995
0.954
0.953
0.952
0.951
0.95
0.949
0.948
0.947
0.946
0.945
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
0.06
A' mass [GeV]

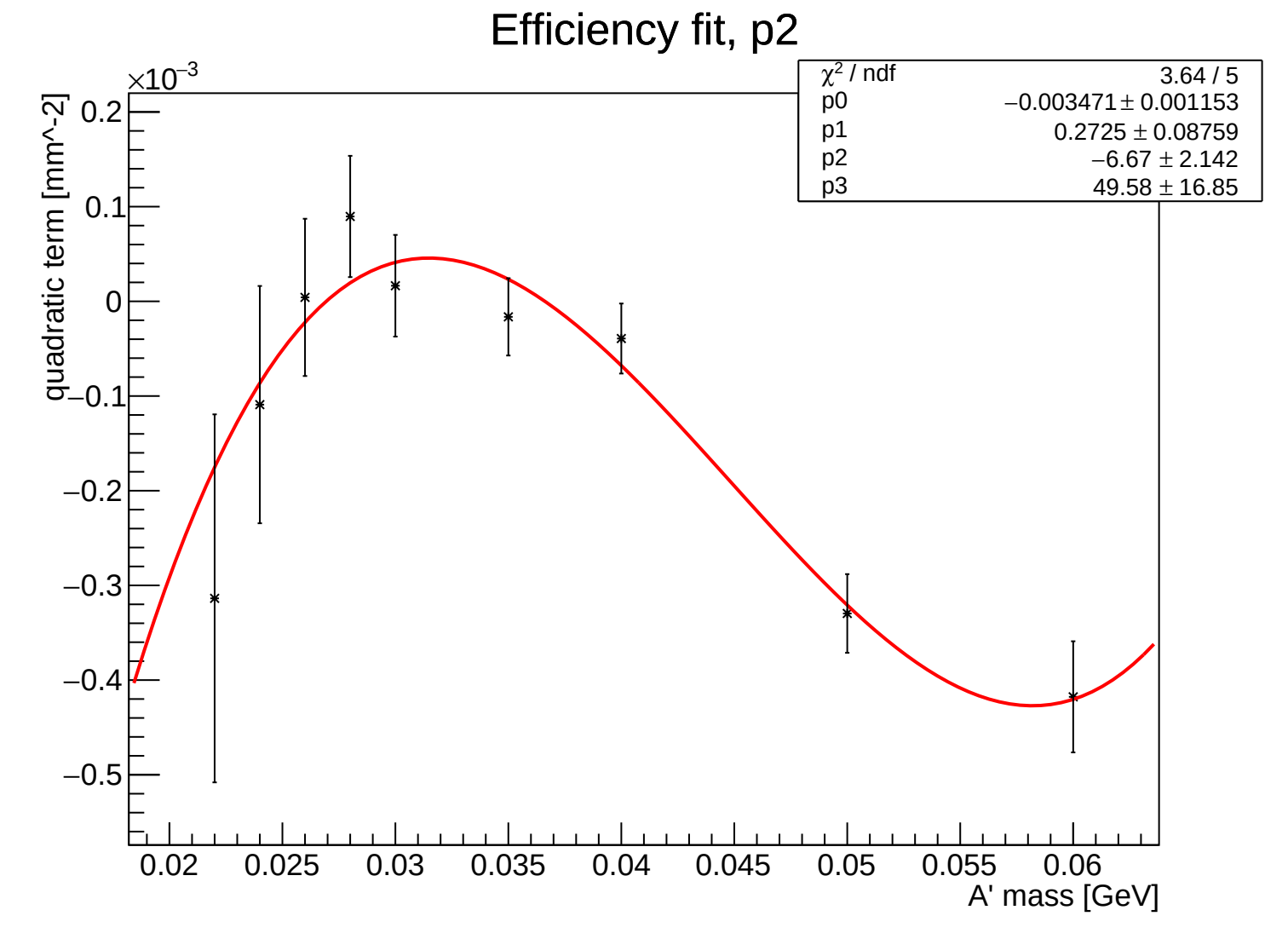

Mass resolution at z=0
χ² / ndf 48.15 / 7
p0 0.0006974 ± 1.624e−05
p1 0.03777 ± 0.0004258
constant term [GeV]
A' mass [GeV]
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
0.06

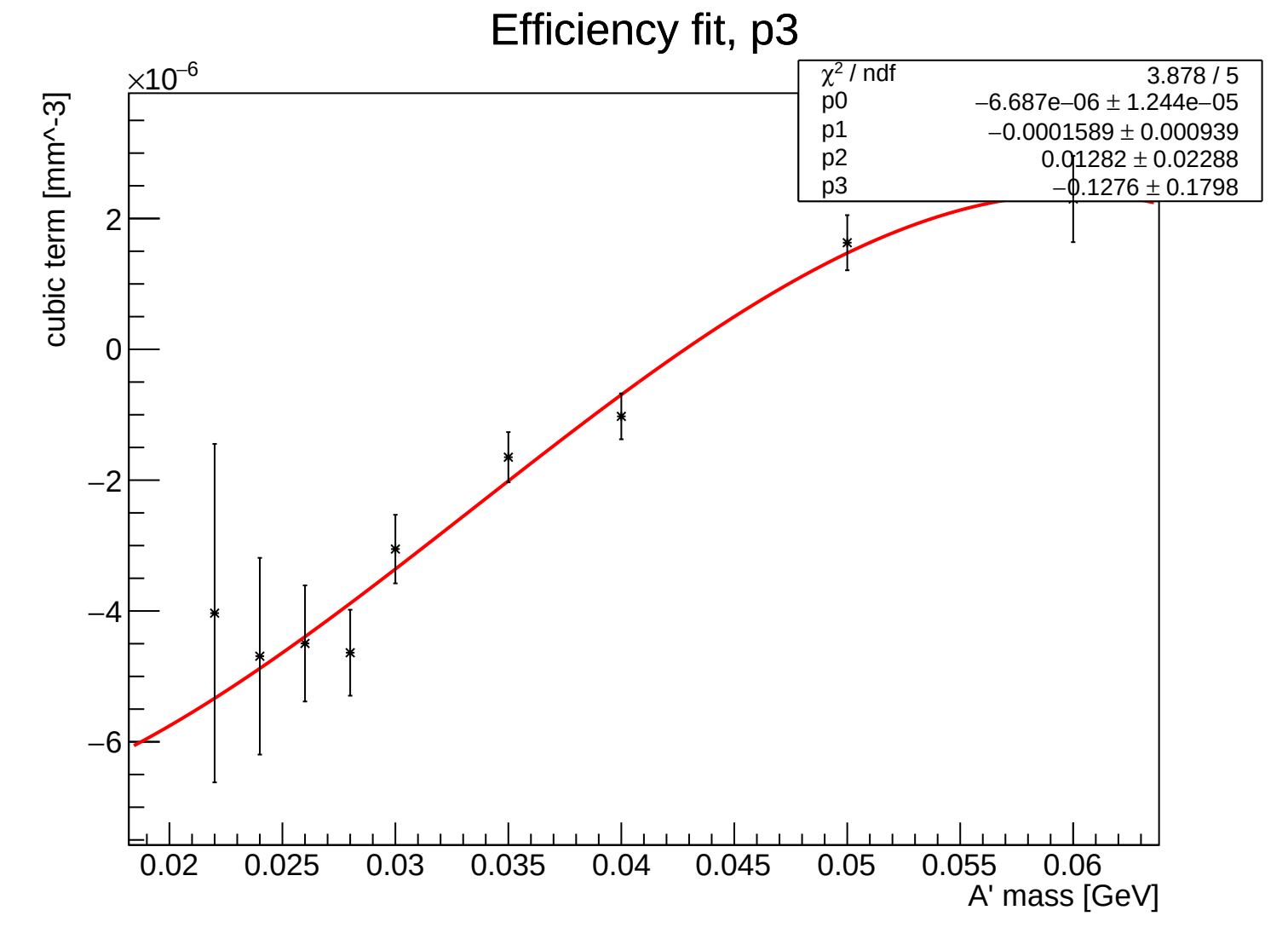

Mass resolution at z=0
χ² / ndf 48.15 / 7
p0 0.0006974 ± 1.624e−05
p1 0.03777 ± 0.0004258
constant term [GeV]
A' mass [GeV]
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
0.06


Slope of mass resolution vs. Z
χ² / ndf 18.7 / 7
p0 1.476e–05 ± 9.841e–07
p1 –0.0003199 ± 2.605e–05
×10⁻⁶
linear term [GeV/mm]
15
10
5
0
–5
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
0.06
A' mass [GeV]


Efficiency fit, p0
χ² / ndf 11.79 / 7
p0 −0.1352 ± 0.009386
p1 2.682 ± 0.219
constant term
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
0.06
A' mass [GeV]


Efficiency fit, p1
χ² / ndf 15.38 / 7
p0 −0.0248 ± 0.001658
p1 0.4682 ± 0.03974
linear term [mm^-1]
0
−0.005
−0.01
−0.015
−0.02
−0.025
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
0.06
A' mass [GeV]


Efficiency fit, p2
×10^−3
quadratic term [mm^-2]
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
0.06
A' mass [GeV]
χ² / ndf 3.64 / 5
p0 −0.003471 ± 0.001153
p1 0.2725 ± 0.08759
p2 −6.67 ± 2.142
p3 49.58 ± 16.85


Efficiency fit, p3
×10^−6
cubic term [mm^-3]
χ² / ndf 3.878 / 5
p0 −6.687e−06 ± 1.244e−05
p1 −0.0001589 ± 0.000939
p2 0.01282 ± 0.02288
p3 −0.1276 ± 0.1798
2
0
−2
−4
−6
0.02
0.025
0.03
0.035
0.04
0.045
0.05
0.055
0.06
A' mass [GeV]