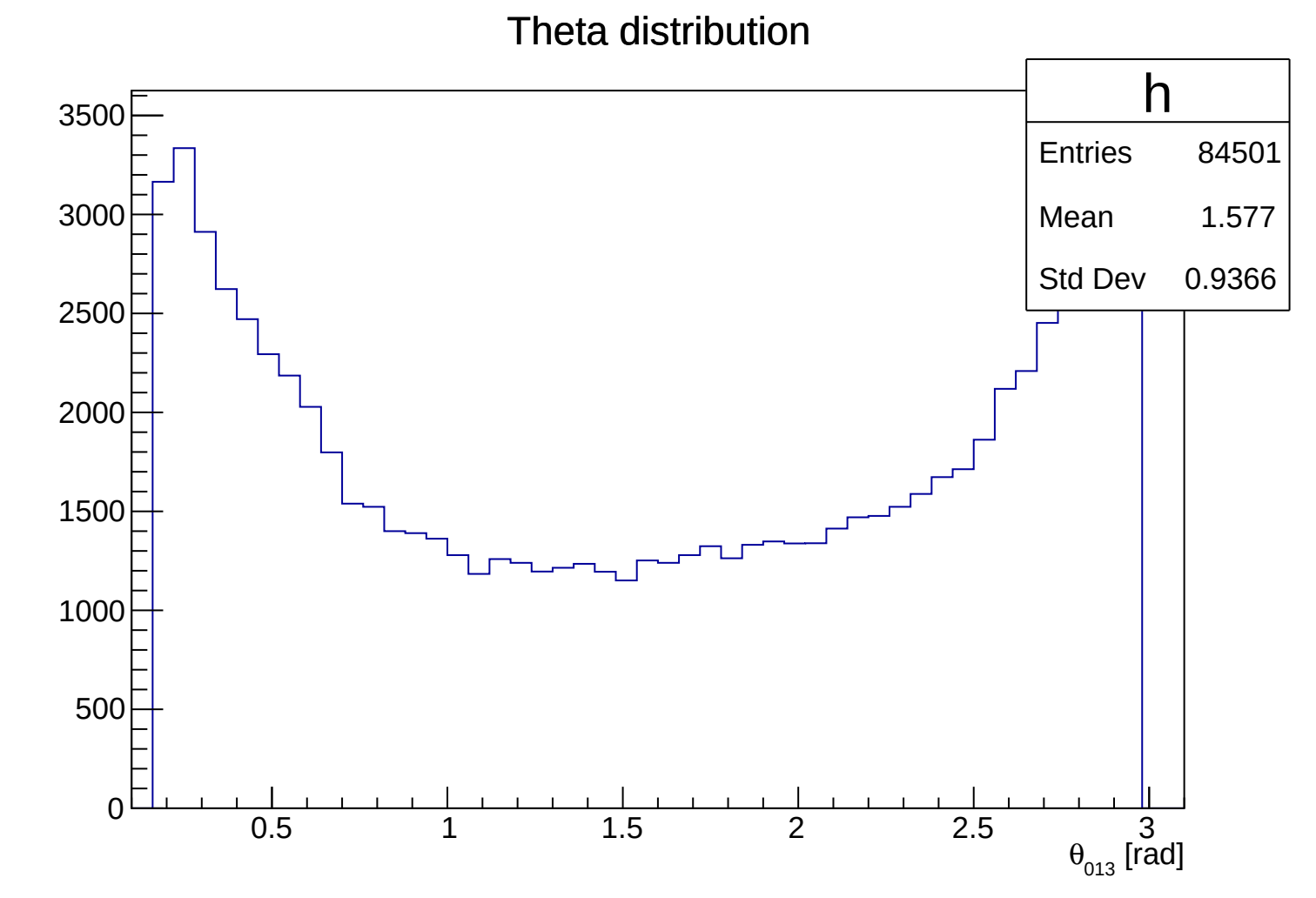
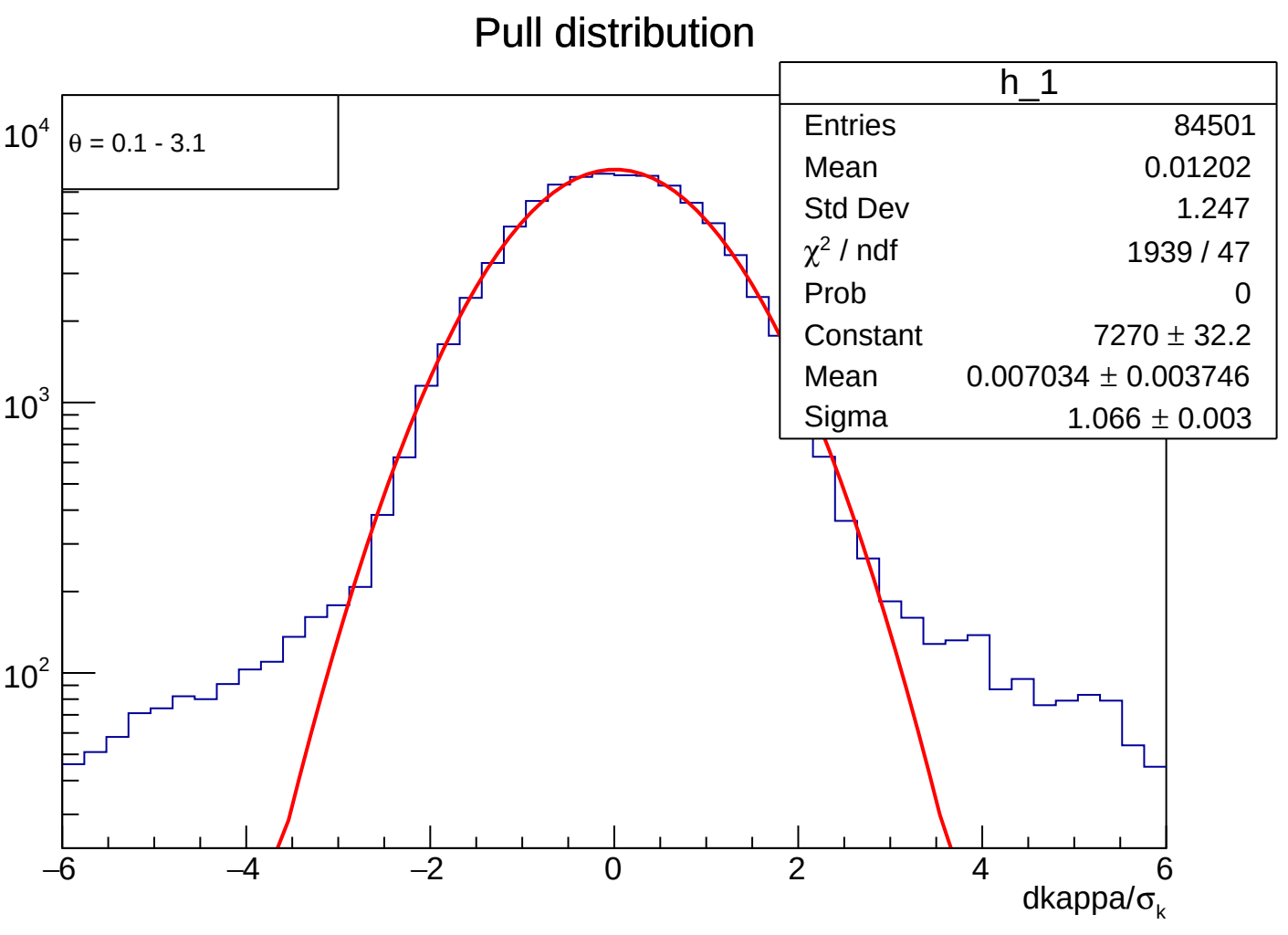
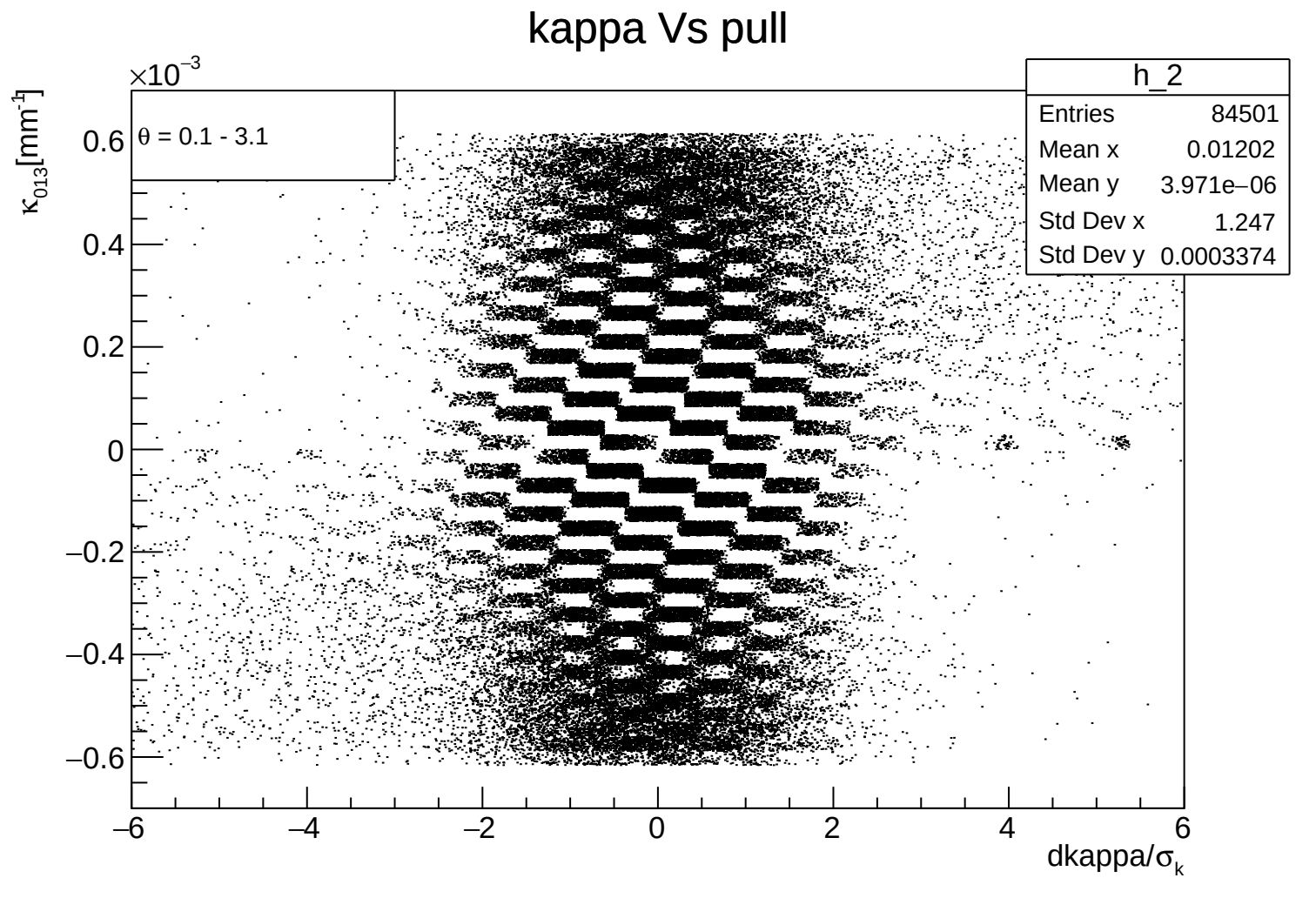
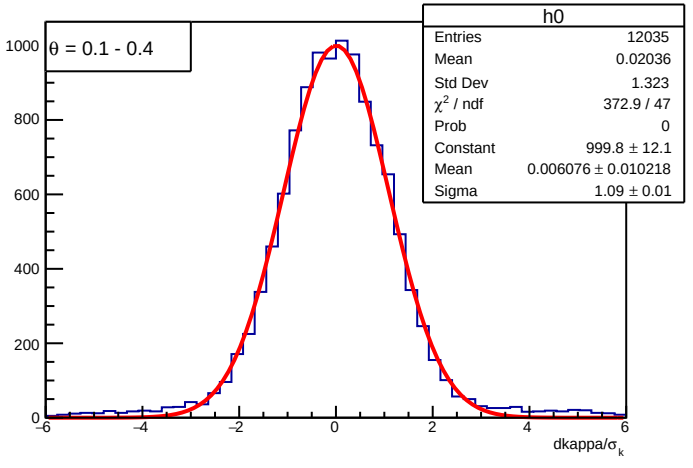
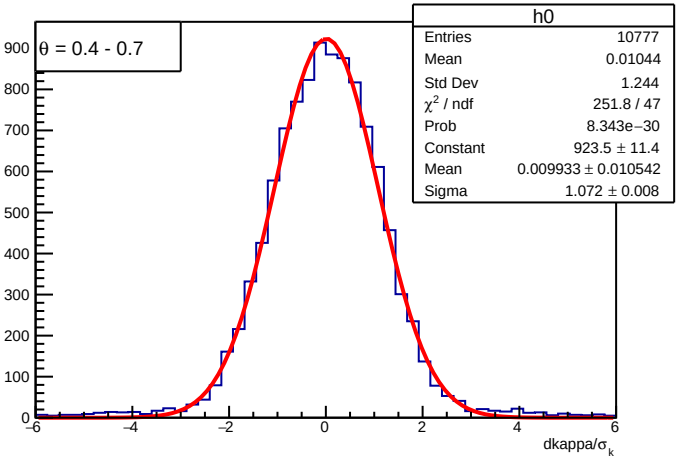
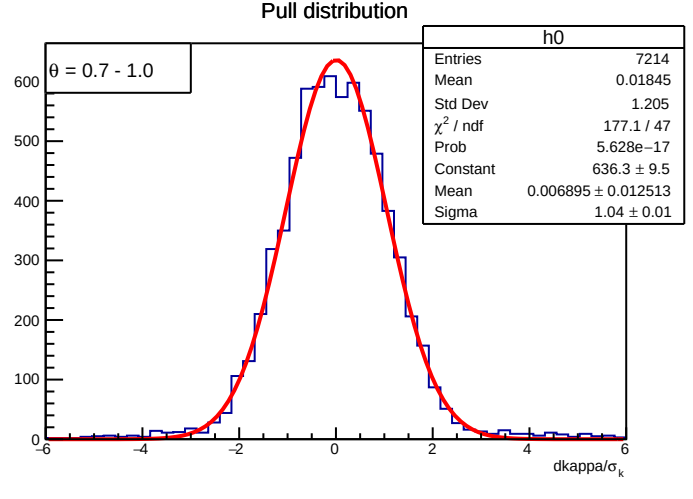

Theta distribution
h
Entries 84501
Mean 1.577
Std Dev 0.9366
3500
3000
2500
2000
1500
1000
500
0
0.5
1
1.5
2
2.5
3
θ013 [rad]

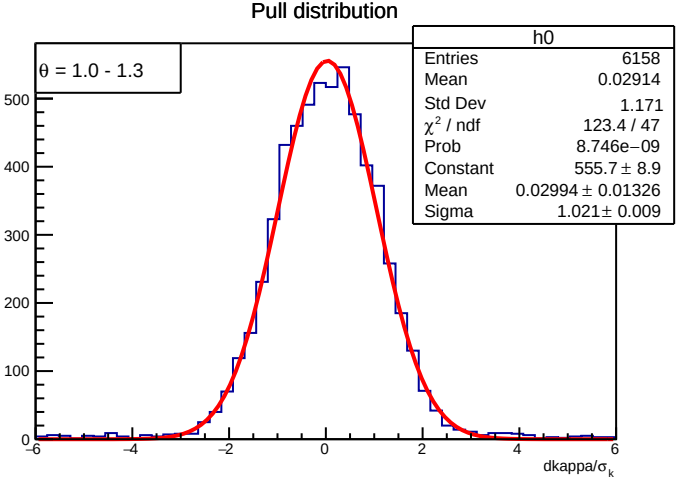

Pull distribution
θ = 0.1 - 3.1
h_1
Entries 84501
Mean 0.01202
Std Dev 1.247
χ² / ndf 1939 / 47
Prob 0
Constant 7270 ± 32.2
Mean 0.007034 ± 0.003746
Sigma 1.066 ± 0.003
10⁴
10³
10²
–6
–4
–2
0
2
4
6
dkappa/σk

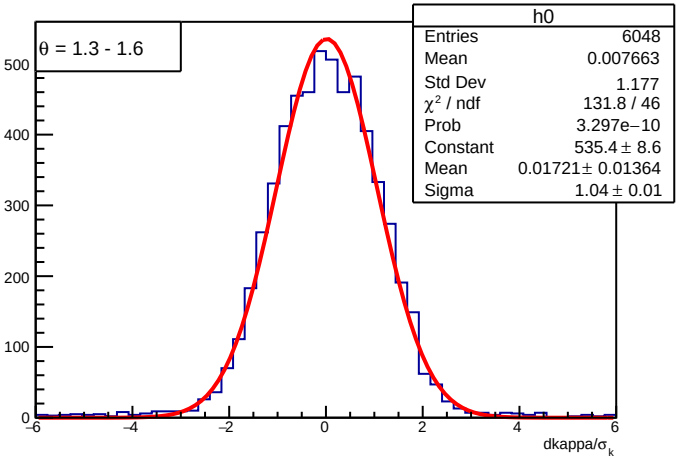

kappa Vs pull
×10⁻³
θ = 0.1 - 3.1
h_2
Entries 84501
Mean x 0.01202
Mean y 3.971e−06
Std Dev x 1.247
Std Dev y 0.0003374
κ013[mm⁻¹]
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−6
−4
−2
0
2
4
6
dkappa/σk

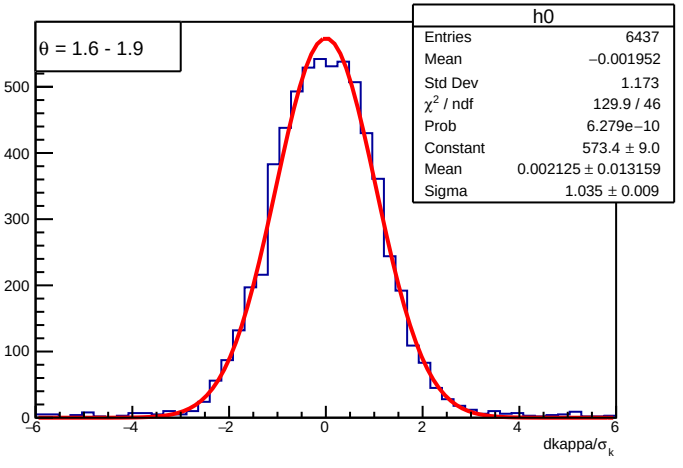

Pull distribution
θ = 0.1 - 0.4
h0
Entries 12035
Mean 0.02036
Std Dev 1.323
χ² / ndf 372.9 / 47
Prob 0
Constant 999.8 ± 12.1
Mean 0.006076 ± 0.010218
Sigma 1.09 ± 0.01
dkappa/σk

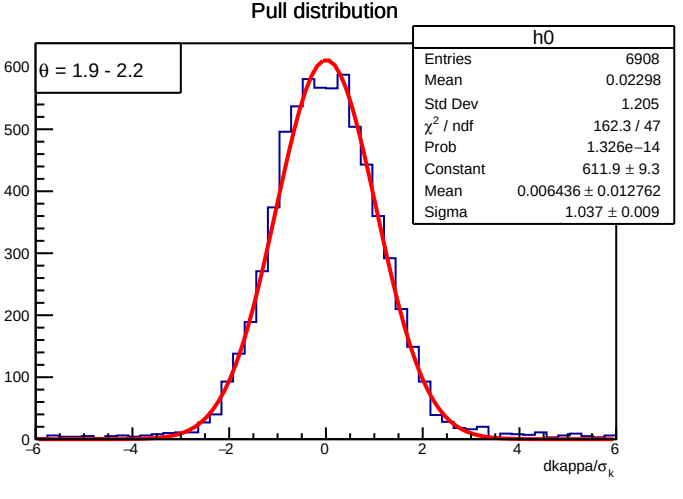

Pull distribution
θ = 0.4 - 0.7
h0
Entries 10777
Mean 0.01044
Std Dev 1.244
χ² / ndf 251.8 / 47
Prob 8.343e−30
Constant 923.5 ± 11.4
Mean 0.009933 ± 0.010542
Sigma 1.072 ± 0.008
dkappa/σk

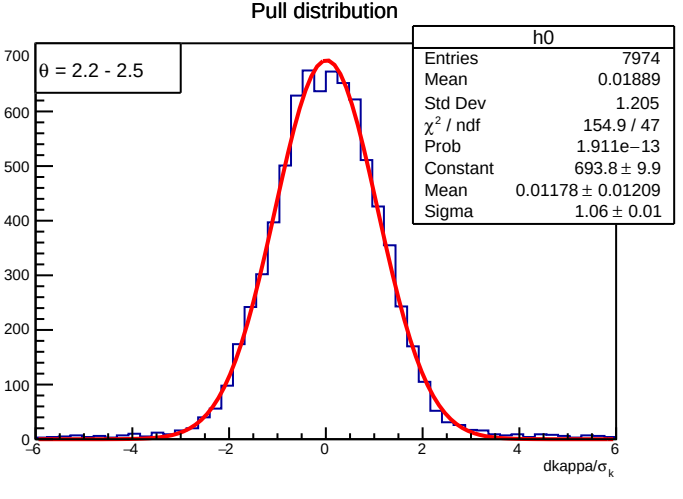

Pull distribution
θ = 0.7 - 1.0
h0
Entries 7214
Mean 0.01845
Std Dev 1.205
χ² / ndf 177.1 / 47
Prob 5.628e−17
Constant 636.3 ± 9.5
Mean 0.006895 ± 0.012513
Sigma 1.04 ± 0.01
dkappa/σk

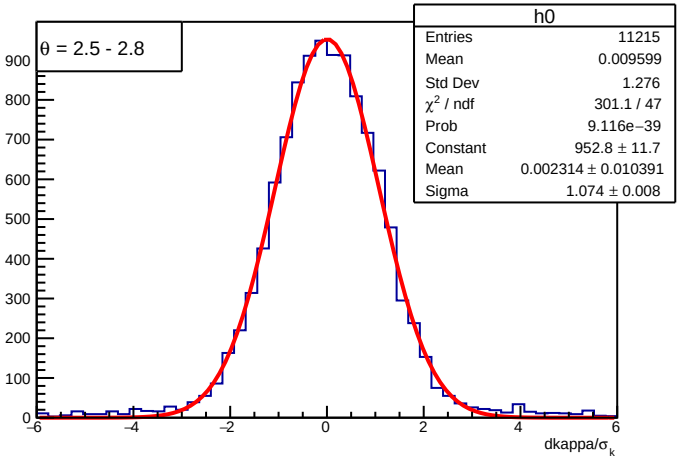

Pull distribution
θ = 1.0 - 1.3
h0
Entries 6158
Mean 0.02914
Std Dev 1.171
χ² / ndf 123.4 / 47
Prob 8.746e−09
Constant 555.7 ± 8.9
Mean 0.02994 ± 0.01326
Sigma 1.021± 0.009
dkappa/σk

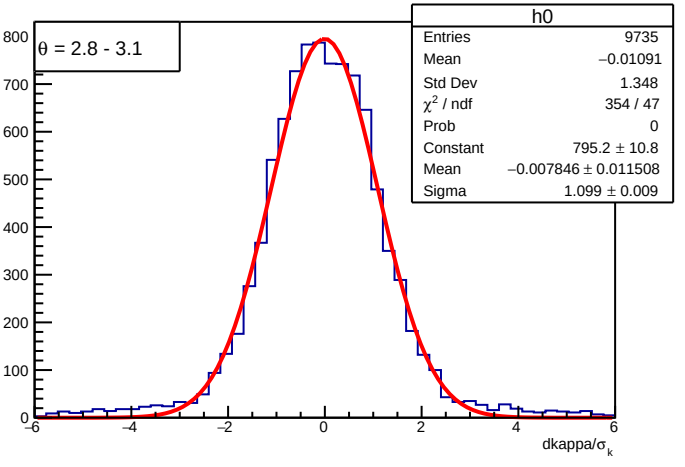

Pull distribution
θ = 1.3 - 1.6
h0
Entries 6048
Mean 0.007663
Std Dev 1.177
χ² / ndf 131.8 / 46
Prob 3.297e−10
Constant 535.4 ± 8.6
Mean 0.01721 ± 0.01364
Sigma 1.04 ± 0.01
dkappa/σk

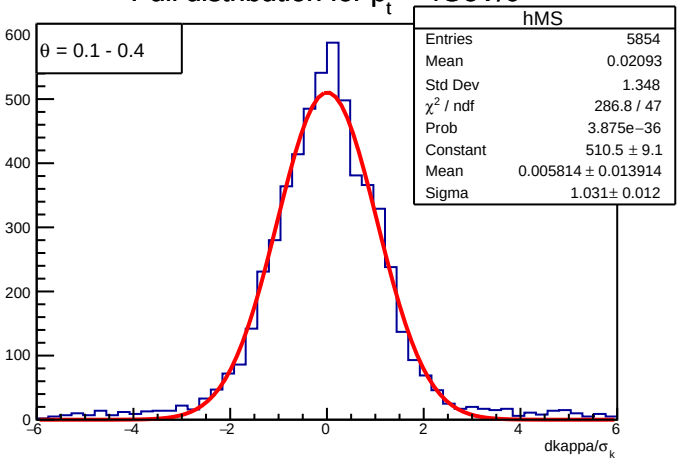

Pull distribution
θ = 1.6 - 1.9
h0
Entries 6437
Mean −0.001952
Std Dev 1.173
χ² / ndf 129.9 / 46
Prob 6.279e−10
Constant 573.4 ± 9.0
Mean 0.002125 ± 0.013159
Sigma 1.035 ± 0.009
dkappa/σk

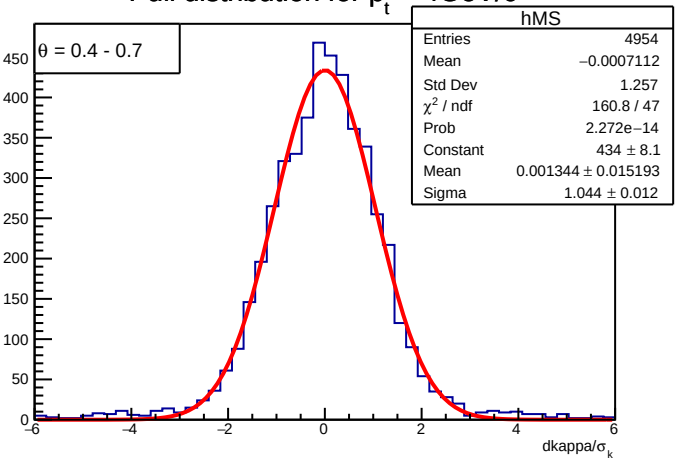

Pull distribution
θ = 1.9 - 2.2
h0
Entries 6908
Mean 0.02298
Std Dev 1.205
χ² / ndf 162.3 / 47
Prob 1.326e−14
Constant 611.9 ± 9.3
Mean 0.006436 ± 0.012762
Sigma 1.037 ± 0.009
dkappa/σk

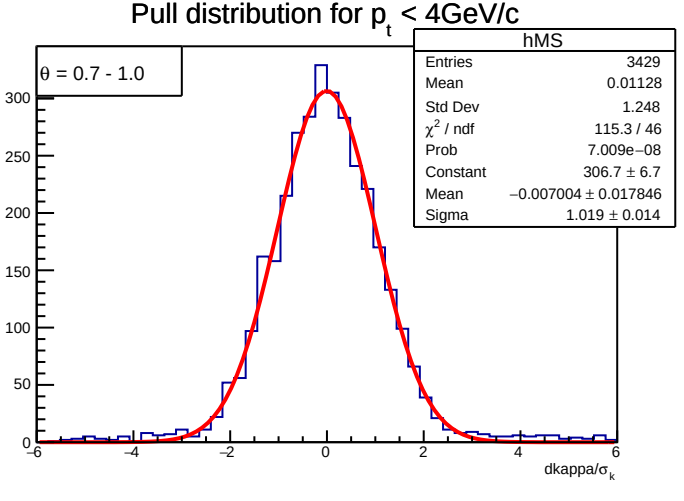

Pull distribution
θ = 2.2 - 2.5
h0
Entries 7974
Mean 0.01889
Std Dev 1.205
χ² / ndf 154.9 / 47
Prob 1.911e−13
Constant 693.8 ± 9.9
Mean 0.01178 ± 0.01209
Sigma 1.06 ± 0.01
dkappa/σk

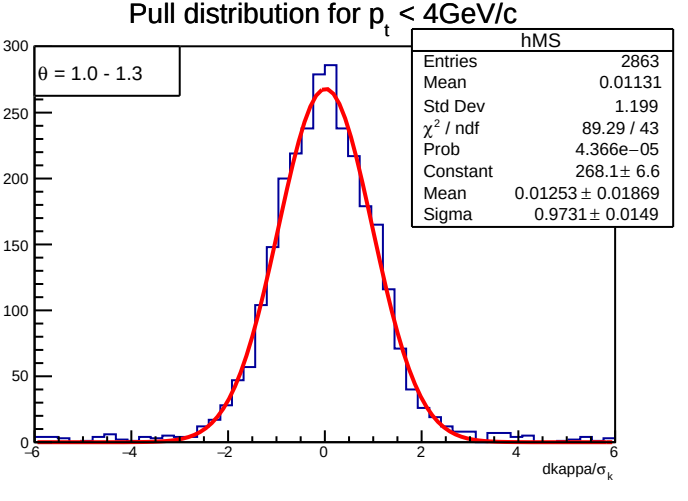

Pull distribution
θ = 2.5 - 2.8
h0
Entries 11215
Mean 0.009599
Std Dev 1.276
χ² / ndf 301.1 / 47
Prob 9.116e−39
Constant 952.8 ± 11.7
Mean 0.002314 ± 0.010391
Sigma 1.074 ± 0.008
dkappa/σk

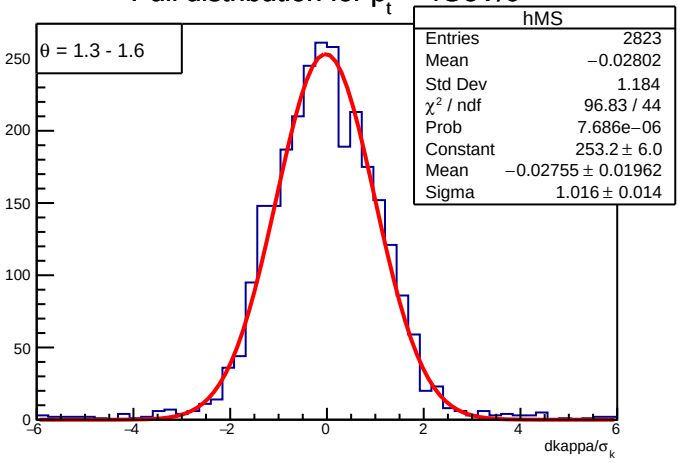

Pull distribution
θ = 2.8 - 3.1
h0
Entries 9735
Mean −0.01091
Std Dev 1.348
χ² / ndf 354 / 47
Prob 0
Constant 795.2 ± 10.8
Mean −0.007846 ± 0.011508
Sigma 1.099 ± 0.009
dkappa/σk

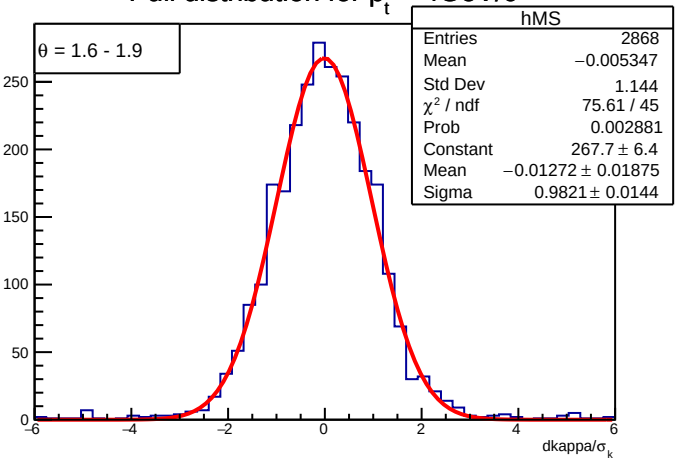

Pull distribution for p_t < 4GeV/c
θ = 0.1 - 0.4
hMS
Entries 5854
Mean 0.02093
Std Dev 1.348
χ^2 / ndf 286.8 / 47
Prob 3.875e−36
Constant 510.5 ± 9.1
Mean 0.005814 ± 0.013914
Sigma 1.031± 0.012
dkappa/σ_k

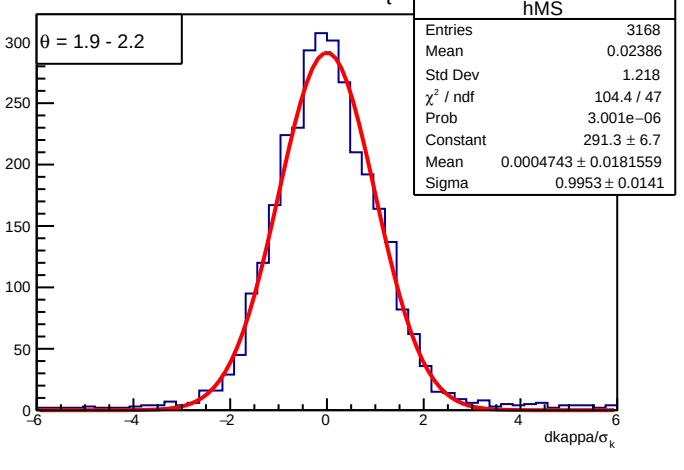

Pull distribution for p_t < 4GeV/c
θ = 0.4 - 0.7
hMS
Entries 4954
Mean −0.0007112
Std Dev 1.257
χ^2 / ndf 160.8 / 47
Prob 2.272e−14
Constant 434 ± 8.1
Mean 0.001344 ± 0.015193
Sigma 1.044 ± 0.012
dkappa/σ_k

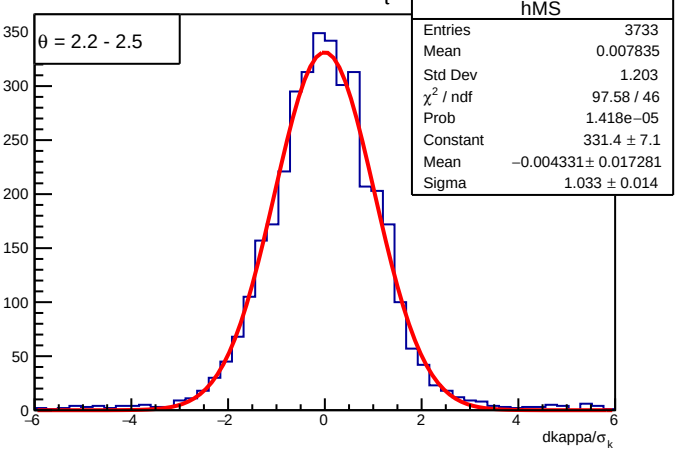

Pull distribution for p_t < 4GeV/c
θ = 0.7 - 1.0
hMS
Entries 3429
Mean 0.01128
Std Dev 1.248
χ^2 / ndf 115.3 / 46
Prob 7.009e−08
Constant 306.7 ± 6.7
Mean −0.007004 ± 0.017846
Sigma 1.019 ± 0.014
dkappa/σ_k

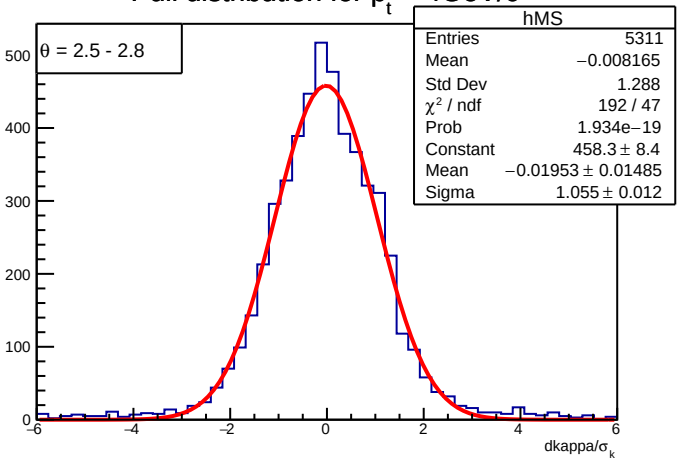

Pull distribution for p_t < 4GeV/c
θ = 1.0 - 1.3
hMS
Entries 2863
Mean 0.01131
Std Dev 1.199
χ^2 / ndf 89.29 / 43
Prob 4.366e−05
Constant 268.1± 6.6
Mean 0.01253 ± 0.01869
Sigma 0.9731± 0.0149
dkappa/σ_k

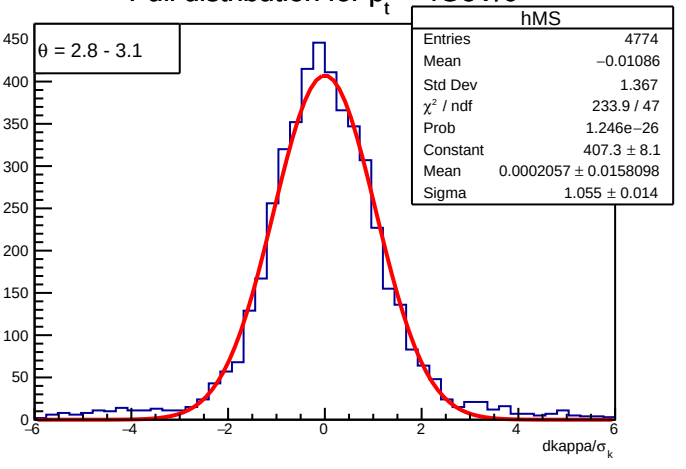

Pull distribution for p_t < 4GeV/c
θ = 1.3 - 1.6
hMS
Entries 2823
Mean −0.02802
Std Dev 1.184
χ^2 / ndf 96.83 / 44
Prob 7.686e−06
Constant 253.2 ± 6.0
Mean −0.02755 ± 0.01962
Sigma 1.016 ± 0.014
dkappa/σ_k

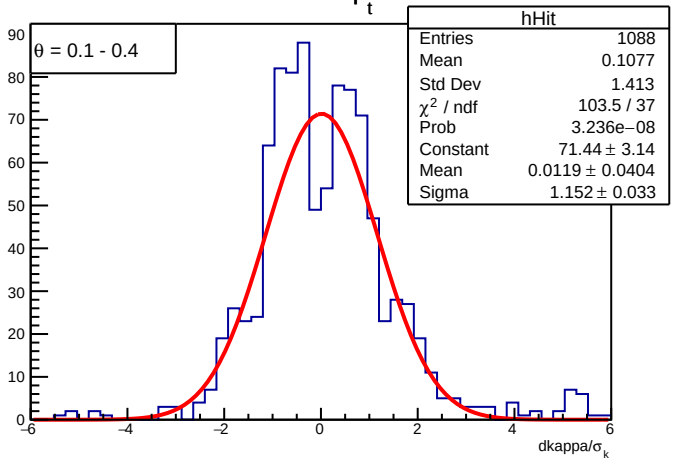

Pull distribution for p_t < 4GeV/c
θ = 1.6 - 1.9
hMS
Entries 2868
Mean −0.005347
Std Dev 1.144
χ^2 / ndf 75.61 / 45
Prob 0.002881
Constant 267.7 ± 6.4
Mean −0.01272 ± 0.01875
Sigma 0.9821 ± 0.0144
dkappa/σ_k

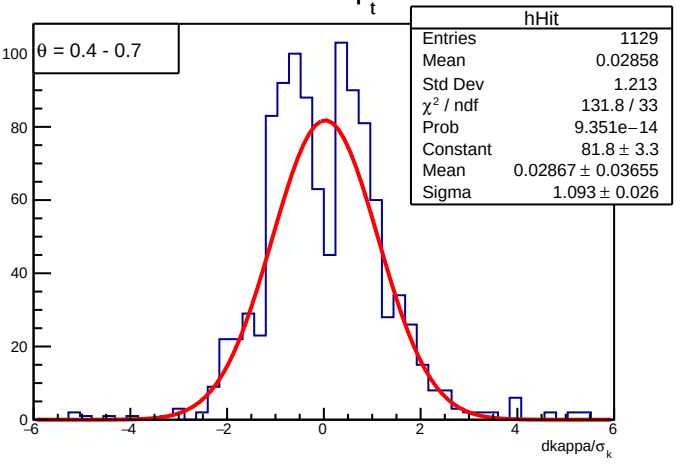

Pull distribution for p_t < 4GeV/c
θ = 1.9 - 2.2
hMS
Entries 3168
Mean 0.02386
Std Dev 1.218
χ^2 / ndf 104.4 / 47
Prob 3.001e−06
Constant 291.3 ± 6.7
Mean 0.0004743 ± 0.0181559
Sigma 0.9953 ± 0.0141
dkappa/σ_k

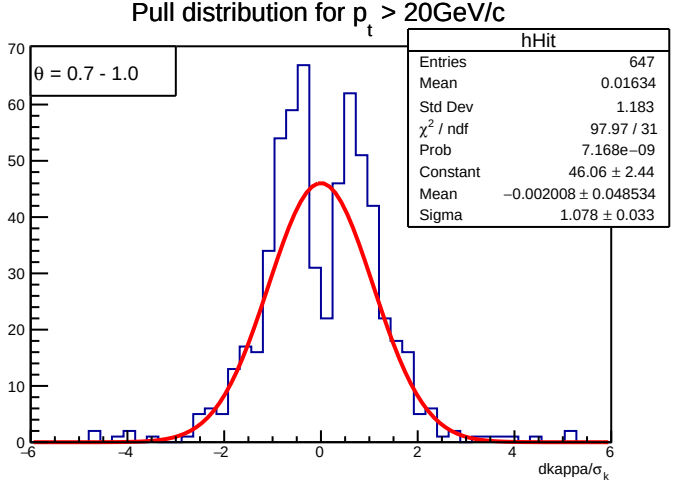

Pull distribution for p_t < 4GeV/c
θ = 2.2 - 2.5
hMS
Entries 3733
Mean 0.007835
Std Dev 1.203
χ^2 / ndf 97.58 / 46
Prob 1.418e−05
Constant 331.4 ± 7.1
Mean −0.004331 ± 0.017281
Sigma 1.033 ± 0.014
dkappa/σ_k

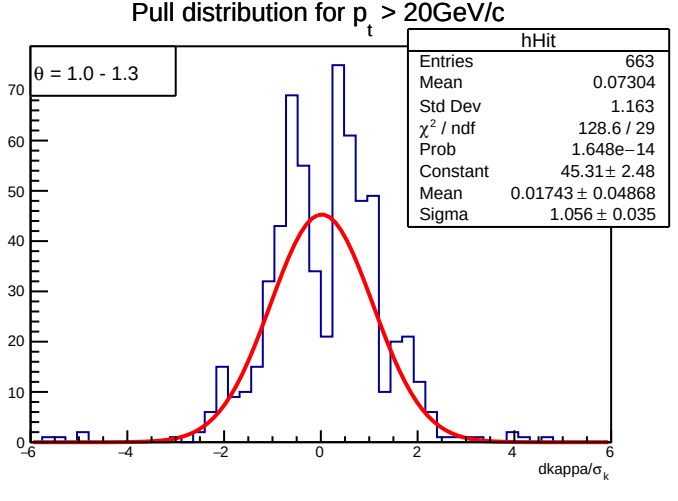

Pull distribution for p_t < 4GeV/c
θ = 2.5 - 2.8
hMS
Entries 5311
Mean −0.008165
Std Dev 1.288
χ^2 / ndf 192 / 47
Prob 1.934e−19
Constant 458.3 ± 8.4
Mean −0.01953 ± 0.01485
Sigma 1.055 ± 0.012
dkappa/σ_k

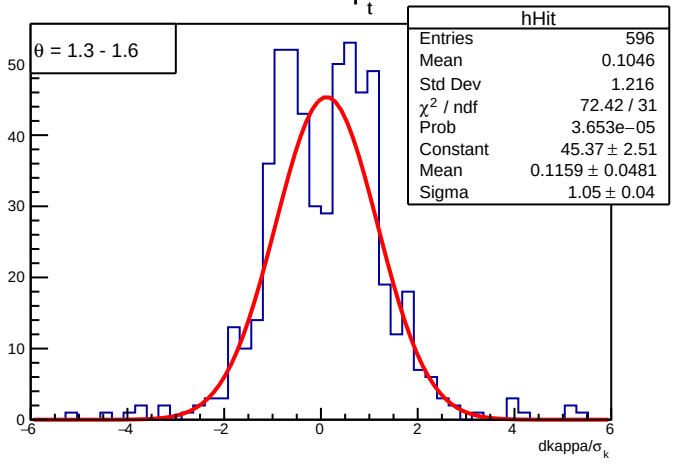

Pull distribution for p_t < 4GeV/c
θ = 2.8 - 3.1
hMS
Entries 4774
Mean −0.01086
Std Dev 1.367
χ^2 / ndf 233.9 / 47
Prob 1.246e−26
Constant 407.3 ± 8.1
Mean 0.0002057 ± 0.0158098
Sigma 1.055 ± 0.014
dkappa/σ_k

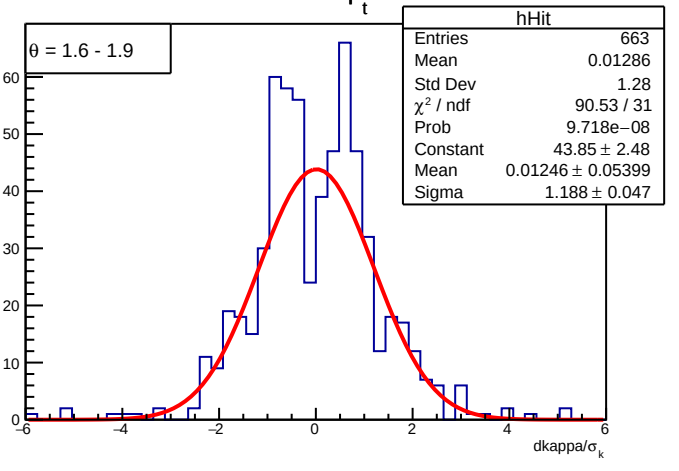

Pull distribution for p_t > 20GeV/c
θ = 0.1 - 0.4
hHit
Entries 1088
Mean 0.1077
Std Dev 1.413
χ² / ndf 103.5 / 37
Prob 3.236e−08
Constant 71.44 ± 3.14
Mean 0.0119 ± 0.0404
Sigma 1.152 ± 0.033
dkappa/σ_k

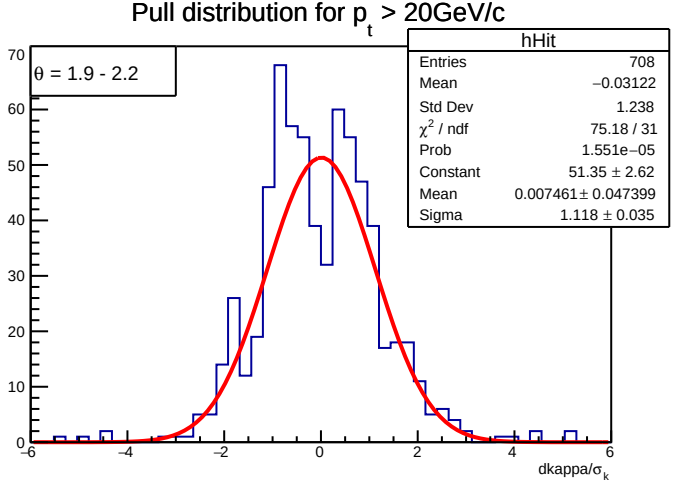

Pull distribution for p_t > 20GeV/c
θ = 0.4 - 0.7
hHit
Entries 1129
Mean 0.02858
Std Dev 1.213
χ² / ndf 131.8 / 33
Prob 9.351e−14
Constant 81.8 ± 3.3
Mean 0.02867 ± 0.03655
Sigma 1.093 ± 0.026
dkappa/σ_k

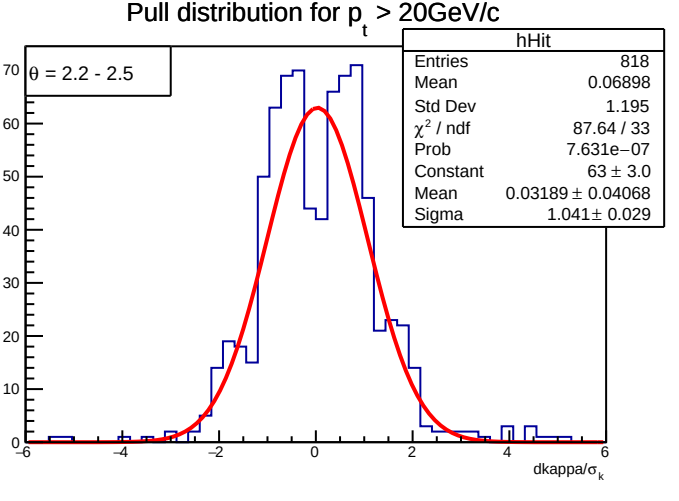

Pull distribution for p_t > 20GeV/c
θ = 0.7 - 1.0
hHit
Entries 647
Mean 0.01634
Std Dev 1.183
χ² / ndf 97.97 / 31
Prob 7.168e−09
Constant 46.06 ± 2.44
Mean −0.002008 ± 0.048534
Sigma 1.078 ± 0.033
dkappa/σ_k

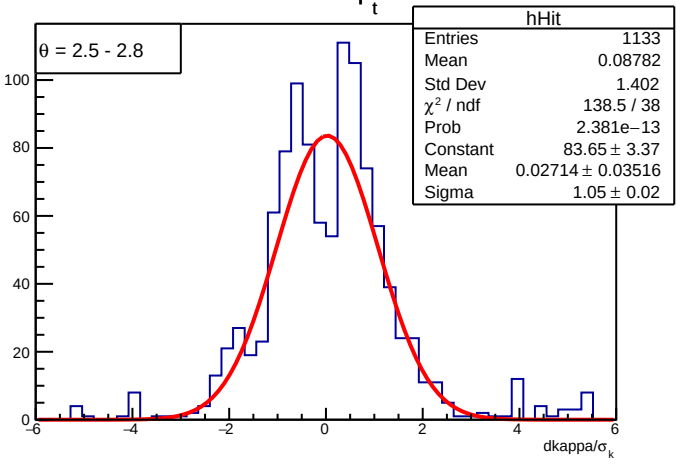

Pull distribution for p_t > 20GeV/c
θ = 1.0 - 1.3
hHit
Entries 663
Mean 0.07304
Std Dev 1.163
χ² / ndf 128.6 / 29
Prob 1.648e−14
Constant 45.31 ± 2.48
Mean 0.01743 ± 0.04868
Sigma 1.056 ± 0.035
dkappa/σ_k

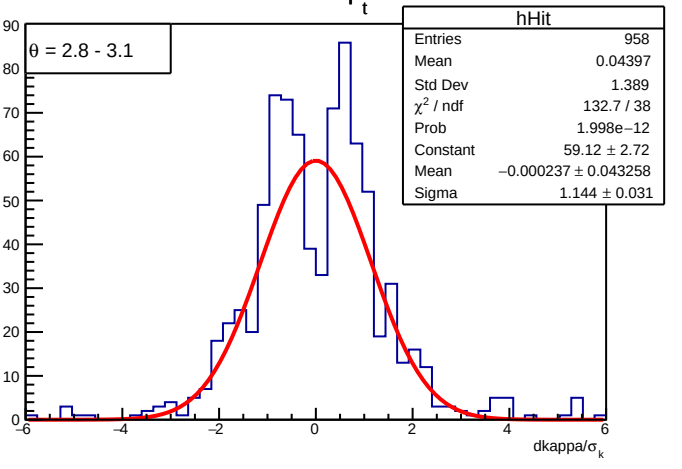

Pull distribution for p_t > 20GeV/c
θ = 1.3 - 1.6
hHit
Entries 596
Mean 0.1046
Std Dev 1.216
χ² / ndf 72.42 / 31
Prob 3.653e−05
Constant 45.37 ± 2.51
Mean 0.1159 ± 0.0481
Sigma 1.05 ± 0.04
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 1.6 - 1.9
hHit
Entries 663
Mean 0.01286
Std Dev 1.28
χ² / ndf 90.53 / 31
Prob 9.718e−08
Constant 43.85 ± 2.48
Mean 0.01246 ± 0.05399
Sigma 1.188 ± 0.047
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 1.9 - 2.2
hHit
Entries 708
Mean −0.03122
Std Dev 1.238
χ² / ndf 75.18 / 31
Prob 1.551e−05
Constant 51.35 ± 2.62
Mean 0.007461 ± 0.047399
Sigma 1.118 ± 0.035
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 2.2 - 2.5
hHit
Entries 818
Mean 0.06898
Std Dev 1.195
χ² / ndf 87.64 / 33
Prob 7.631e−07
Constant 63 ± 3.0
Mean 0.03189 ± 0.04068
Sigma 1.041 ± 0.029
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 2.5 - 2.8
hHit
Entries 1133
Mean 0.08782
Std Dev 1.402
χ² / ndf 138.5 / 38
Prob 2.381e−13
Constant 83.65 ± 3.37
Mean 0.02714 ± 0.03516
Sigma 1.05 ± 0.02
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 2.8 - 3.1
hHit
Entries 958
Mean 0.04397
Std Dev 1.389
χ² / ndf 132.7 / 38
Prob 1.998e−12
Constant 59.12 ± 2.72
Mean −0.000237 ± 0.043258
Sigma 1.144 ± 0.031
dkappa/σ_k