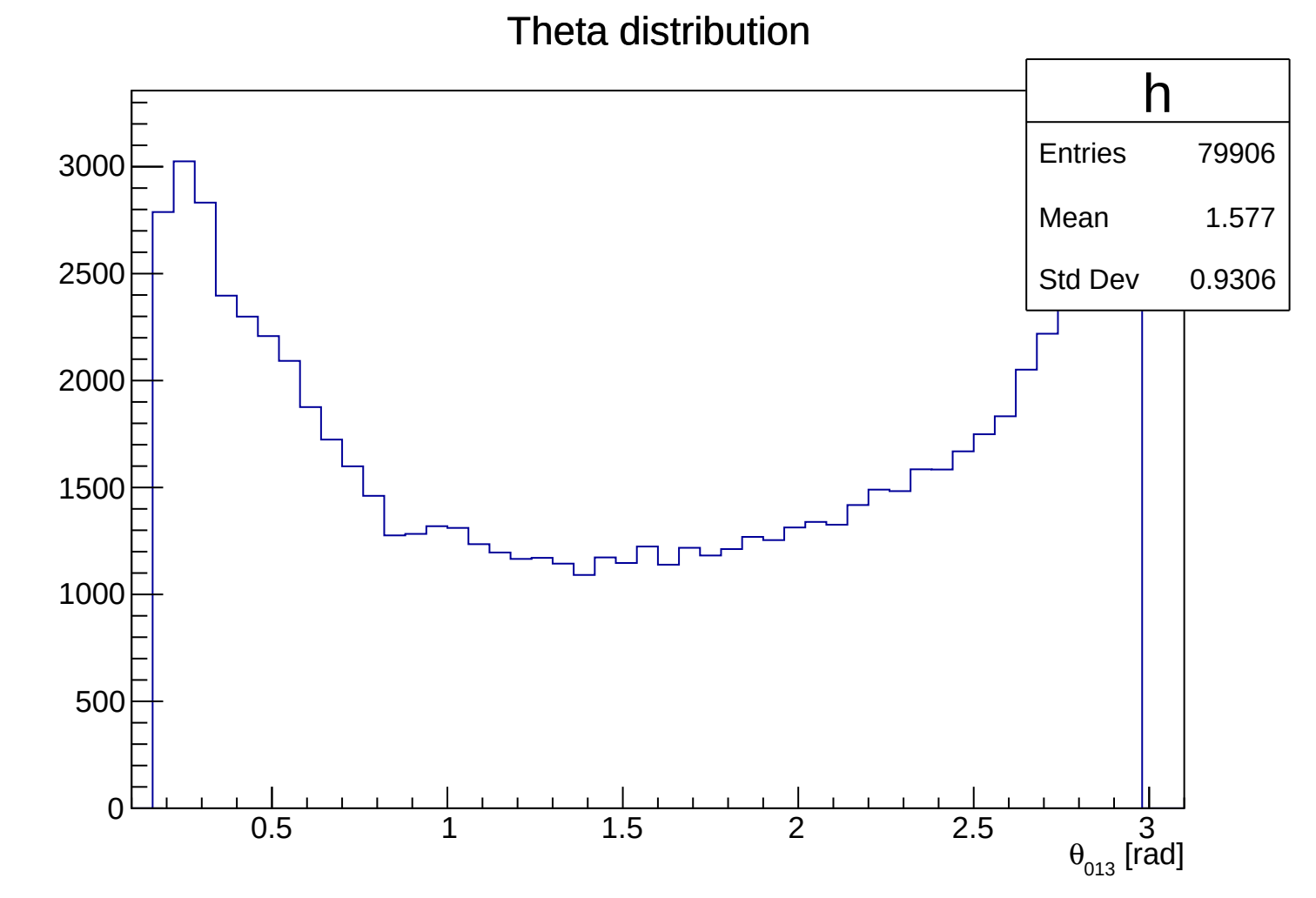
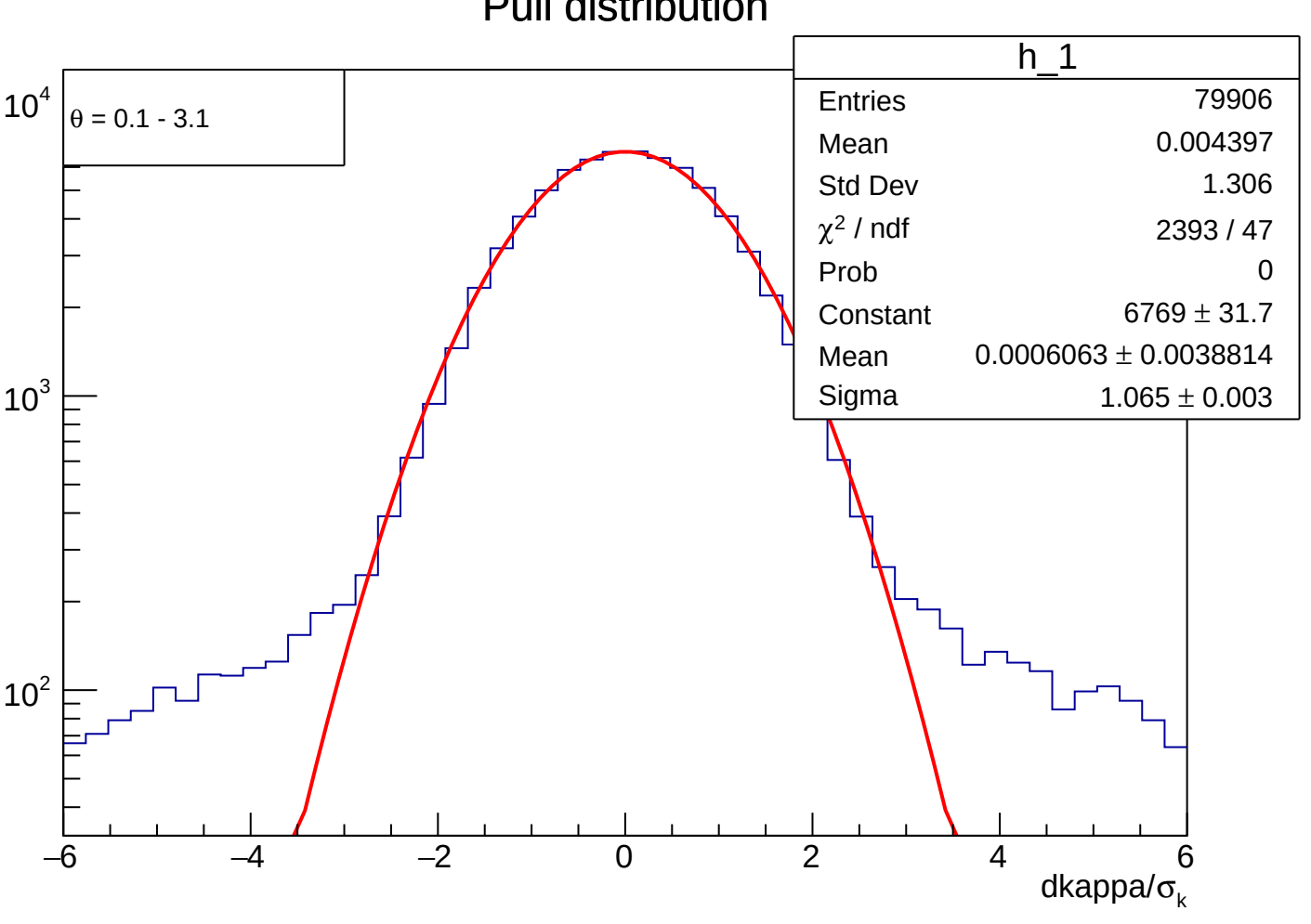
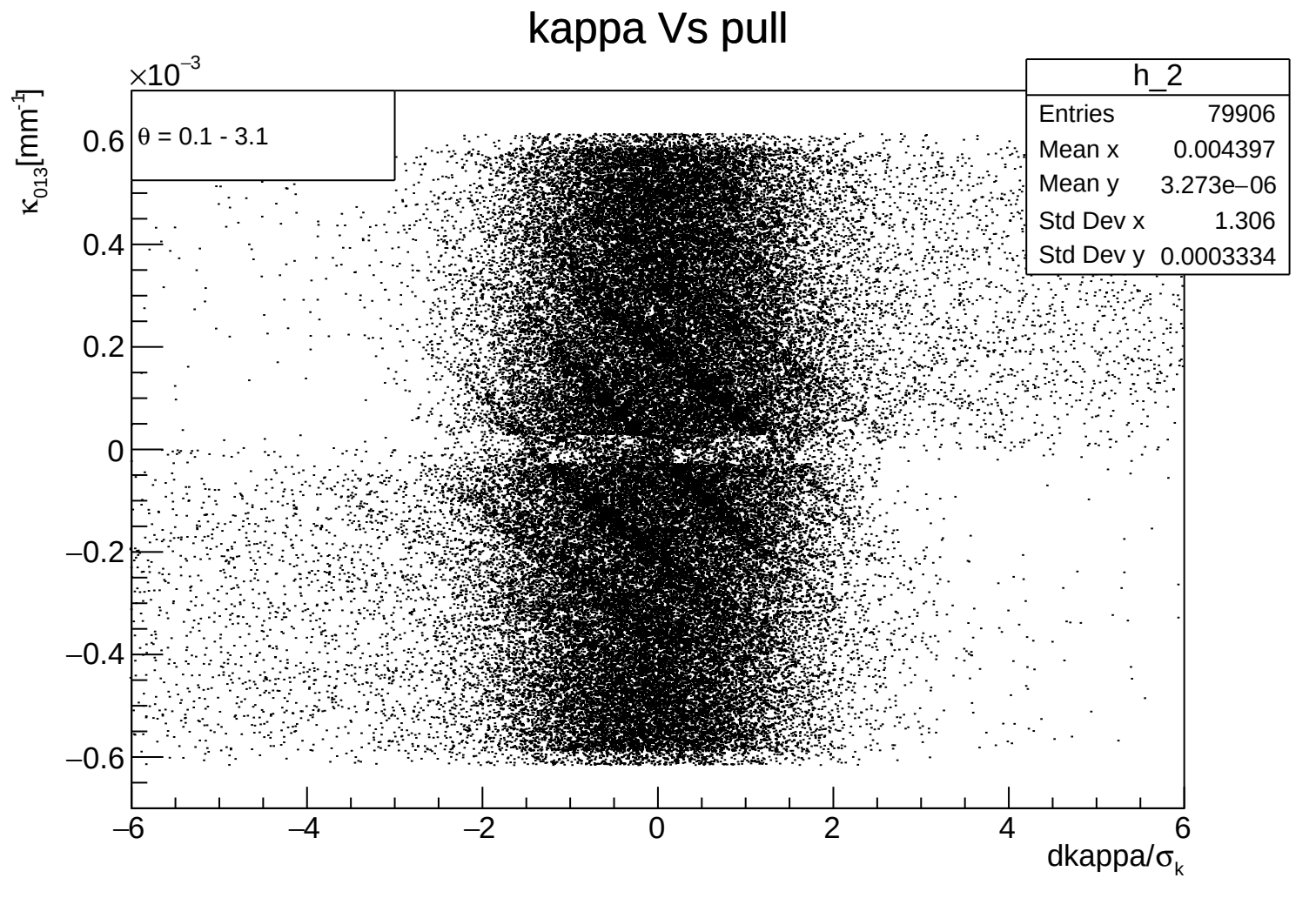
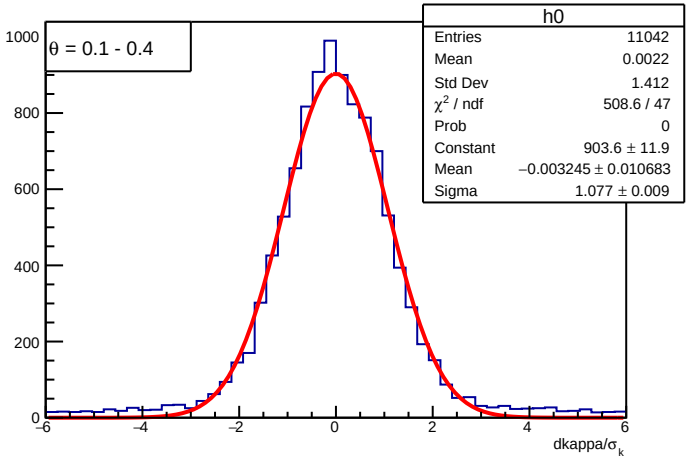
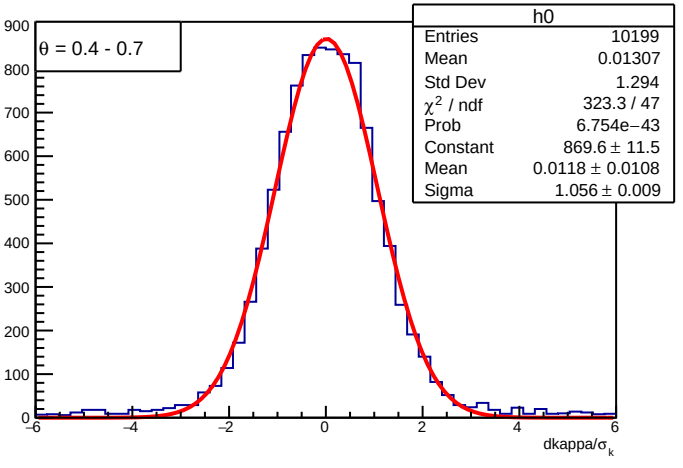
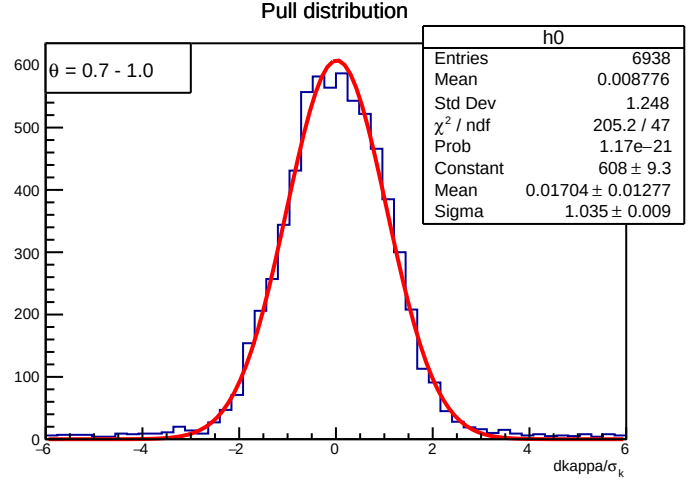

Theta distribution
h
Entries 79906
Mean 1.577
Std Dev 0.9306
3000
2500
2000
1500
1000
500
0
0.5
1
1.5
2
2.5
3
θ013 [rad]

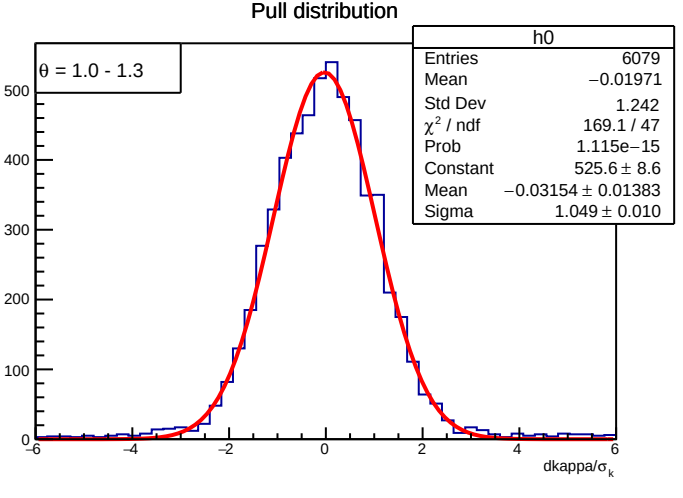

Pull distribution
θ = 0.1 - 3.1
h_1
Entries 79906
Mean 0.004397
Std Dev 1.306
χ² / ndf 2393 / 47
Prob 0
Constant 6769 ± 31.7
Mean 0.0006063 ± 0.0038814
Sigma 1.065 ± 0.003
10⁴
10³
10²
–6
–4
–2
0
2
4
6
dkappa/σk

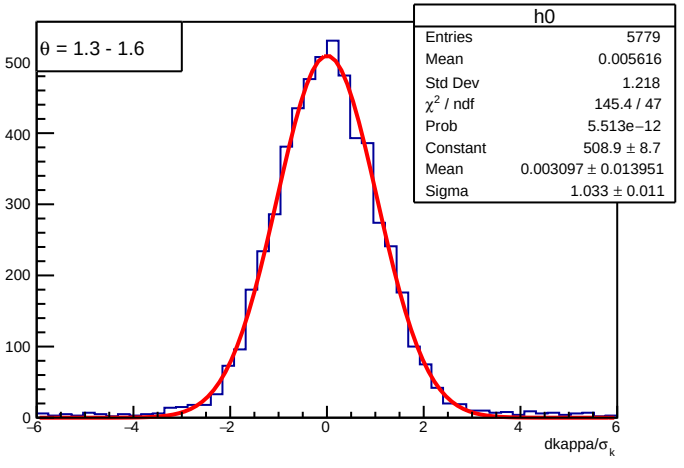

kappa Vs pull
h_2
Entries 79906
Mean x 0.004397
Mean y 3.273e−06
Std Dev x 1.306
Std Dev y 0.0003334
θ = 0.1 - 3.1
×10⁻³
κ013[mm⁻¹]
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−6
−4
−2
0
2
4
6
dkappa/σk

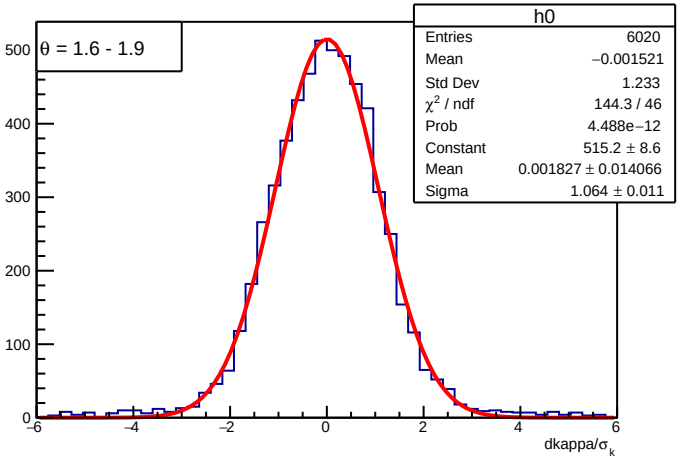

Pull distribution
θ = 0.1 - 0.4
h0
Entries 11042
Mean 0.0022
Std Dev 1.412
χ² / ndf 508.6 / 47
Prob 0
Constant 903.6 ± 11.9
Mean −0.003245 ± 0.010683
Sigma 1.077 ± 0.009
dkappa/σk

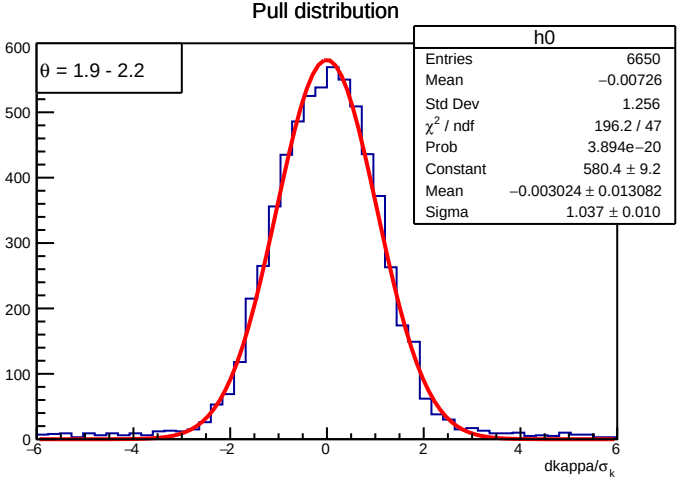

Pull distribution
θ = 0.4 - 0.7
h0
Entries 10199
Mean 0.01307
Std Dev 1.294
χ² / ndf 323.3 / 47
Prob 6.754e−43
Constant 869.6 ± 11.5
Mean 0.0118 ± 0.0108
Sigma 1.056 ± 0.009
dkappa/σk

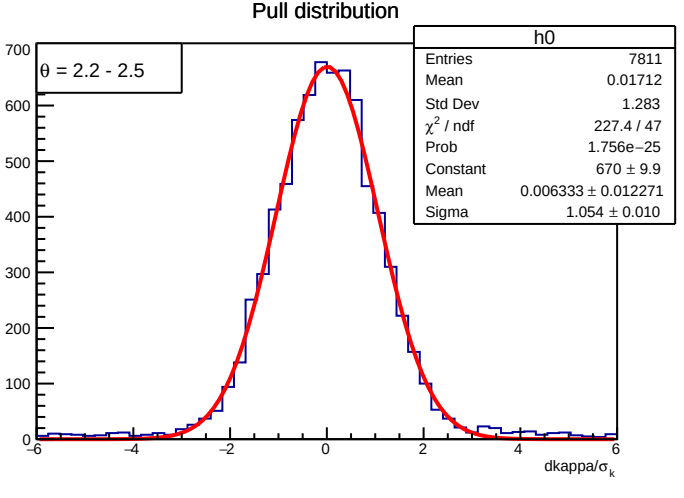

Pull distribution
θ = 0.7 - 1.0
h0
Entries 6938
Mean 0.008776
Std Dev 1.248
χ² / ndf 205.2 / 47
Prob 1.17e−21
Constant 608 ± 9.3
Mean 0.01704 ± 0.01277
Sigma 1.035 ± 0.009
dkappa/σk

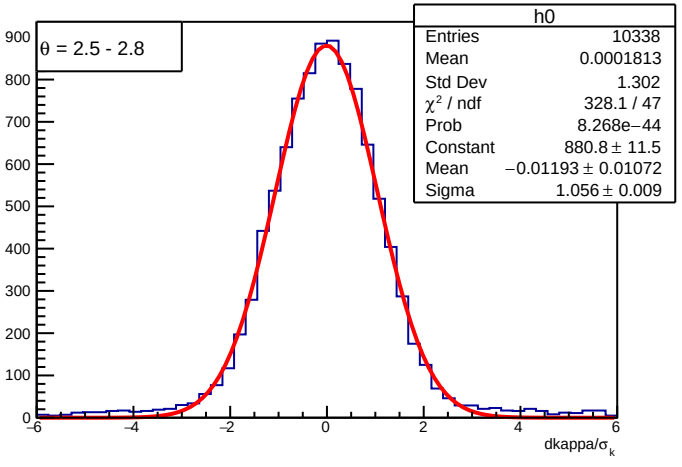

Pull distribution
θ = 1.0 - 1.3
h0
Entries 6079
Mean −0.01971
Std Dev 1.242
χ² / ndf 169.1 / 47
Prob 1.115e−15
Constant 525.6 ± 8.6
Mean −0.03154 ± 0.01383
Sigma 1.049 ± 0.010
dkappa/σk

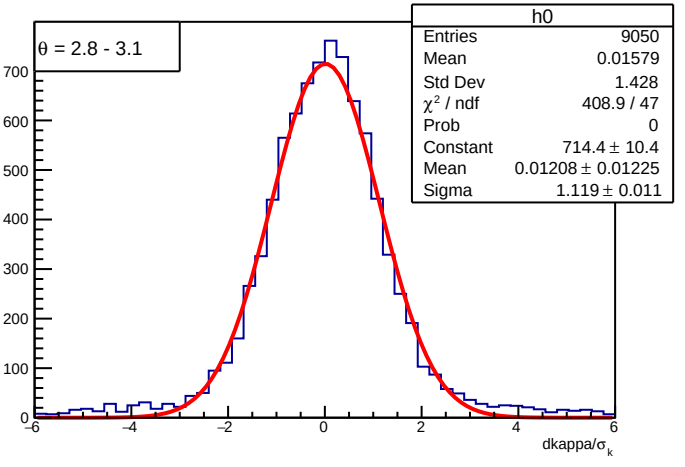

Pull distribution
θ = 1.3 - 1.6
h0
Entries 5779
Mean 0.005616
Std Dev 1.218
χ² / ndf 145.4 / 47
Prob 5.513e−12
Constant 508.9 ± 8.7
Mean 0.003097 ± 0.013951
Sigma 1.033 ± 0.011
dkappa/σk

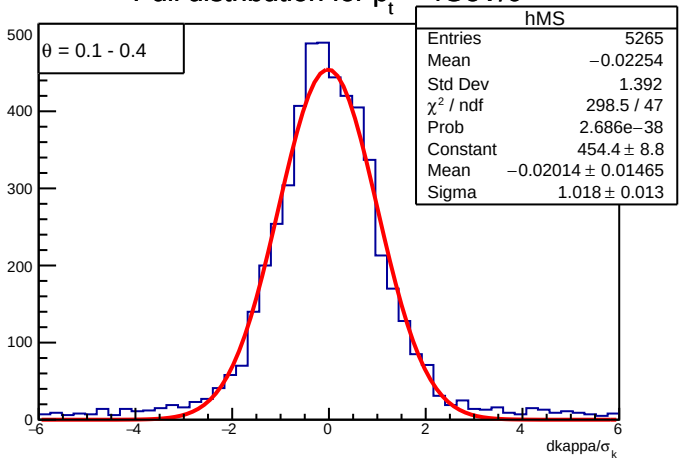

Pull distribution
θ = 1.6 - 1.9
h0
Entries 6020
Mean −0.001521
Std Dev 1.233
χ² / ndf 144.3 / 46
Prob 4.488e−12
Constant 515.2 ± 8.6
Mean 0.001827 ± 0.014066
Sigma 1.064 ± 0.011
dkappa/σk

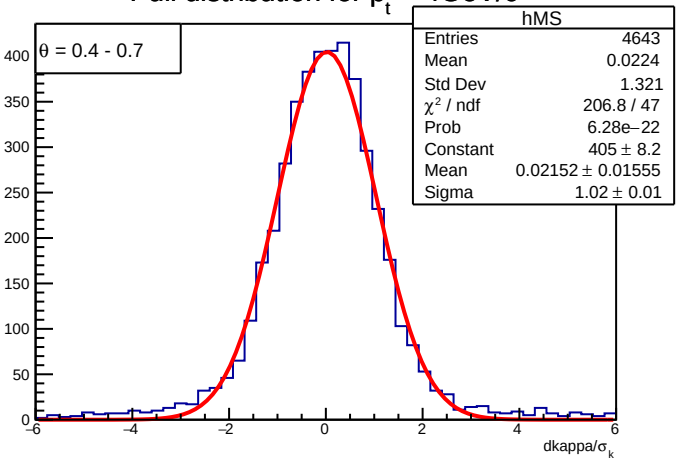

Pull distribution
θ = 1.9 - 2.2
h0
Entries 6650
Mean −0.00726
Std Dev 1.256
χ² / ndf 196.2 / 47
Prob 3.894e−20
Constant 580.4 ± 9.2
Mean −0.003024 ± 0.013082
Sigma 1.037 ± 0.010
dkappa/σk

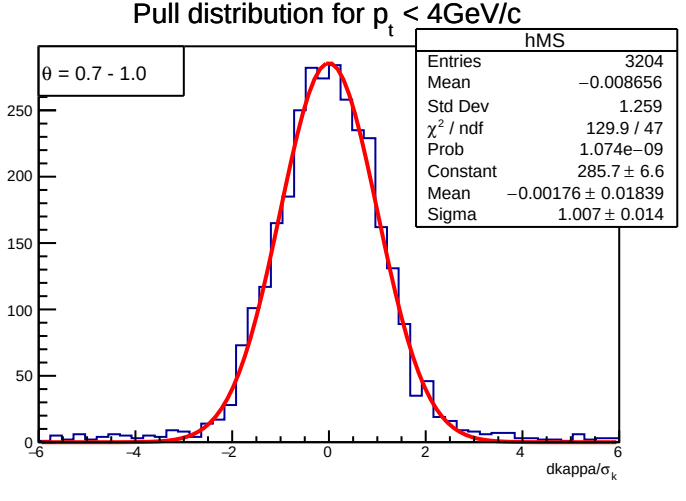

Pull distribution
θ = 2.2 - 2.5
h0
Entries 7811
Mean 0.01712
Std Dev 1.283
χ² / ndf 227.4 / 47
Prob 1.756e−25
Constant 670 ± 9.9
Mean 0.006333 ± 0.012271
Sigma 1.054 ± 0.010
dkappa/σk

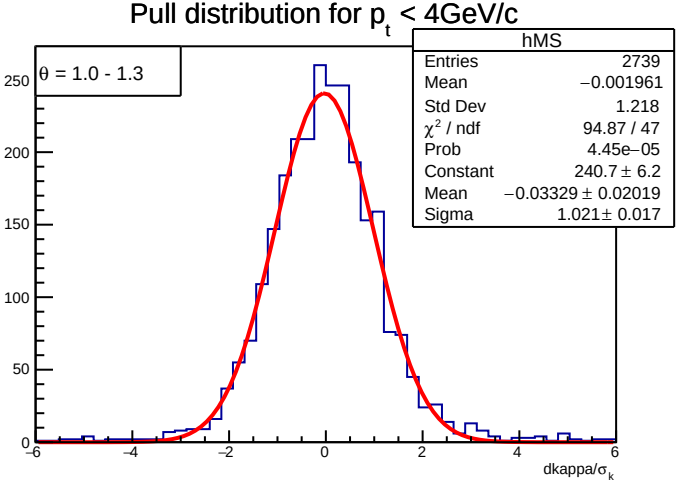

Pull distribution
θ = 2.5 - 2.8
h0
Entries 10338
Mean 0.0001813
Std Dev 1.302
χ² / ndf 328.1 / 47
Prob 8.268e−44
Constant 880.8 ± 11.5
Mean −0.01193 ± 0.01072
Sigma 1.056 ± 0.009
dkappa/σk

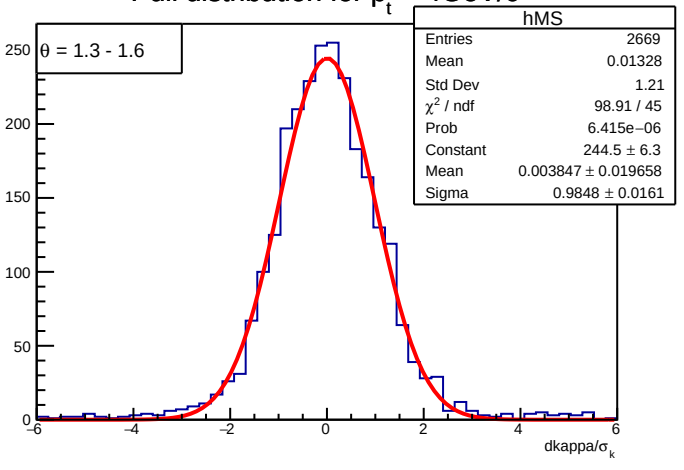

Pull distribution
θ = 2.8 - 3.1
h0
Entries 9050
Mean 0.01579
Std Dev 1.428
χ² / ndf 408.9 / 47
Prob 0
Constant 714.4 ± 10.4
Mean 0.01208 ± 0.01225
Sigma 1.119 ± 0.011
dkappa/σk

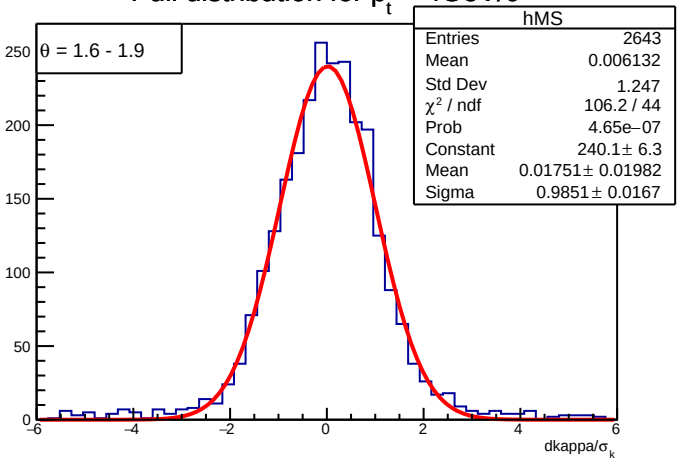

Pull distribution for p_t < 4GeV/c
θ = 0.1 - 0.4
hMS
Entries 5265
Mean −0.02254
Std Dev 1.392
χ^2 / ndf 298.5 / 47
Prob 2.686e−38
Constant 454.4 ± 8.8
Mean −0.02014 ± 0.01465
Sigma 1.018 ± 0.013
dkappa/σ_k

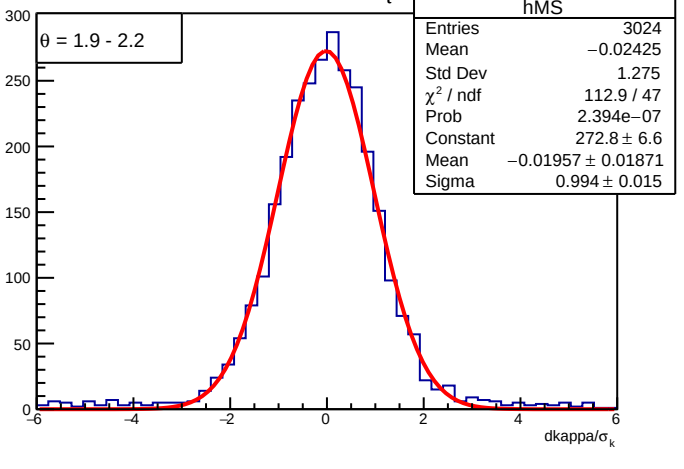

Pull distribution for p_t < 4GeV/c
θ = 0.4 - 0.7
hMS
Entries 4643
Mean 0.0224
Std Dev 1.321
χ^2 / ndf 206.8 / 47
Prob 6.28e−22
Constant 405 ± 8.2
Mean 0.02152 ± 0.01555
Sigma 1.02 ± 0.01
dkappa/σ_k

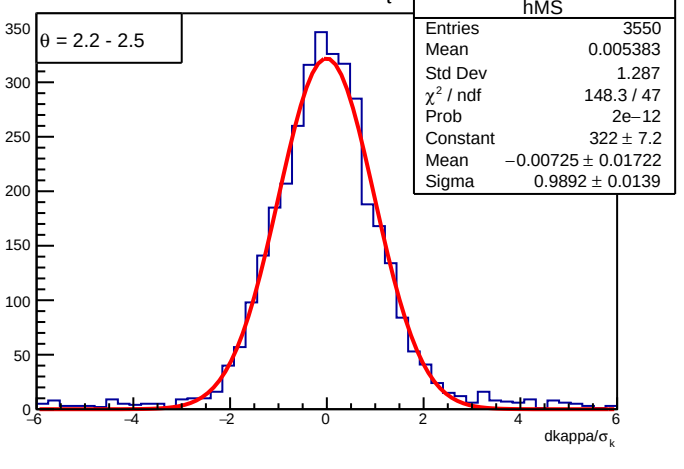

Pull distribution for p_t < 4GeV/c
θ = 0.7 - 1.0
hMS
Entries 3204
Mean −0.008656
Std Dev 1.259
χ^2 / ndf 129.9 / 47
Prob 1.074e−09
Constant 285.7 ± 6.6
Mean −0.00176 ± 0.01839
Sigma 1.007 ± 0.014
dkappa/σ_k

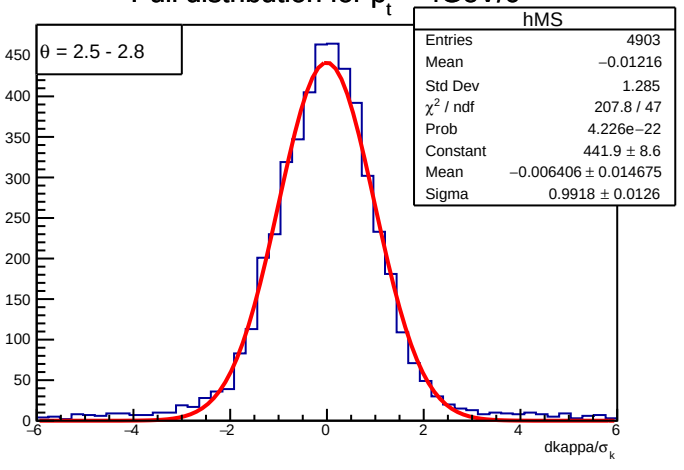

Pull distribution for p_t < 4GeV/c
θ = 1.0 - 1.3
hMS
Entries 2739
Mean −0.001961
Std Dev 1.218
χ^2 / ndf 94.87 / 47
Prob 4.45e−05
Constant 240.7 ± 6.2
Mean −0.03329 ± 0.02019
Sigma 1.021± 0.017
dkappa/σ_k

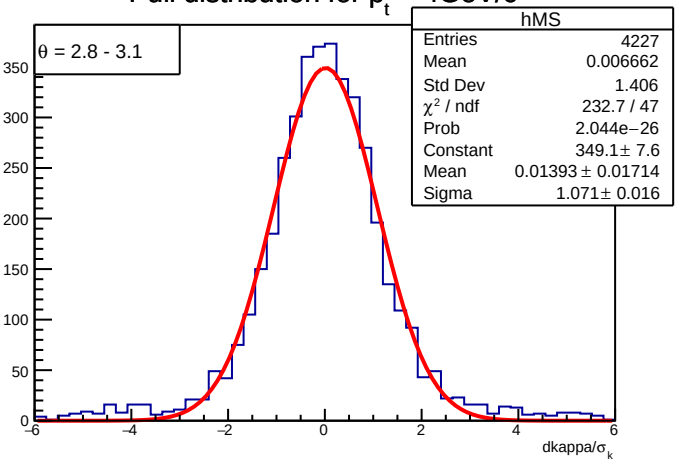

Pull distribution for p_t < 4GeV/c
θ = 1.3 - 1.6
hMS
Entries 2669
Mean 0.01328
Std Dev 1.21
χ² / ndf 98.91 / 45
Prob 6.415e−06
Constant 244.5 ± 6.3
Mean 0.003847 ± 0.019658
Sigma 0.9848 ± 0.0161
dkappa/σ_k

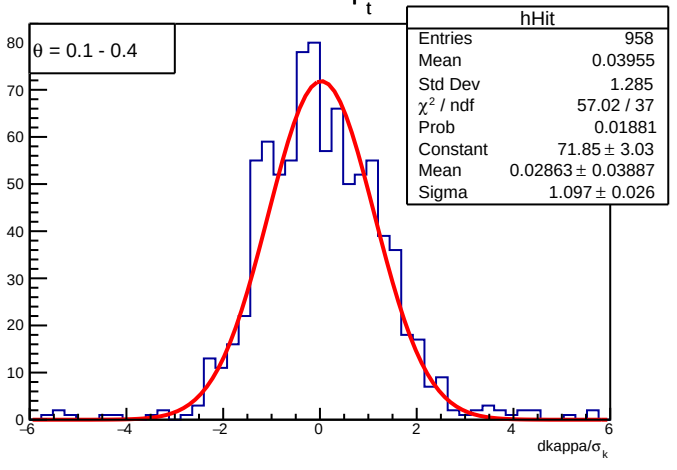

Pull distribution for p_t < 4GeV/c
θ = 1.6 - 1.9
hMS
Entries 2643
Mean 0.006132
Std Dev 1.247
χ² / ndf 106.2 / 44
Prob 4.65e−07
Constant 240.1± 6.3
Mean 0.01751± 0.01982
Sigma 0.9851± 0.0167
dkappa/σ_k

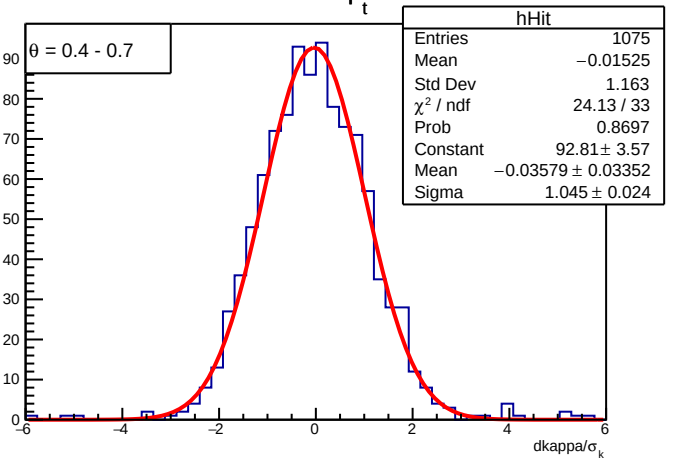

Pull distribution for p_t < 4GeV/c
θ = 1.9 - 2.2
hMS
Entries 3024
Mean −0.02425
Std Dev 1.275
χ² / ndf 112.9 / 47
Prob 2.394e−07
Constant 272.8 ± 6.6
Mean −0.01957 ± 0.01871
Sigma 0.994 ± 0.015
dkappa/σ_k

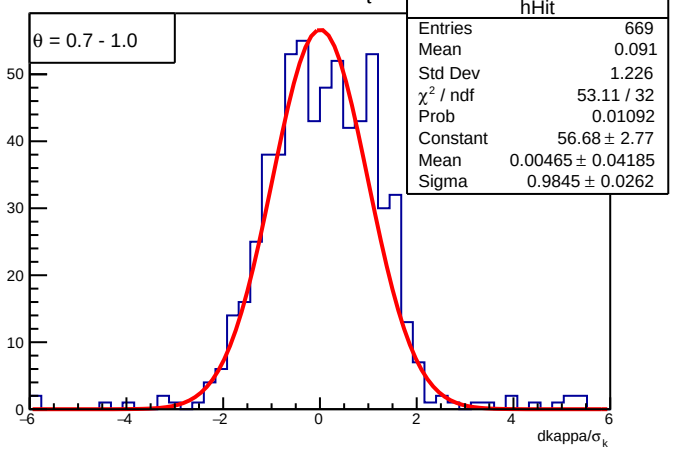

Pull distribution for p_t < 4GeV/c
θ = 2.2 - 2.5
hMS
Entries 3550
Mean 0.005383
Std Dev 1.287
χ² / ndf 148.3 / 47
Prob 2e−12
Constant 322 ± 7.2
Mean −0.00725 ± 0.01722
Sigma 0.9892 ± 0.0139
dkappa/σ_k

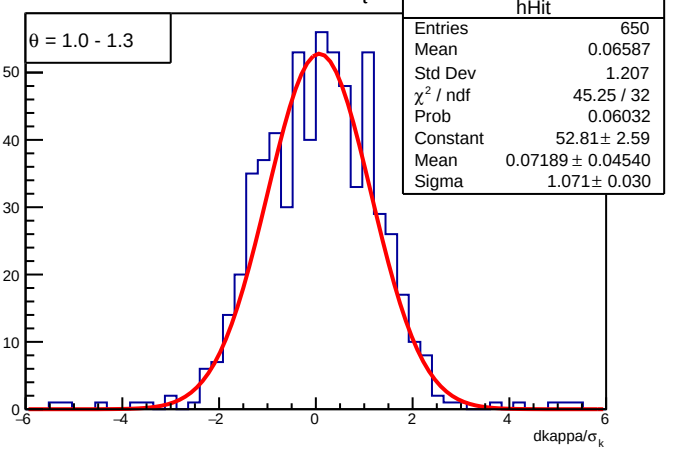

Pull distribution for p_t < 4GeV/c
θ = 2.5 - 2.8
hMS
Entries 4903
Mean −0.01216
Std Dev 1.285
χ^2 / ndf 207.8 / 47
Prob 4.226e−22
Constant 441.9 ± 8.6
Mean −0.006406 ± 0.014675
Sigma 0.9918 ± 0.0126
dkappa/σ_k

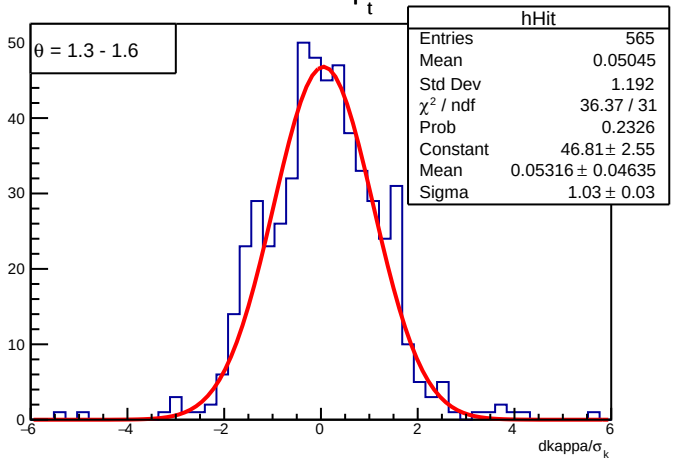

Pull distribution for p_t < 4GeV/c
θ = 2.8 - 3.1
hMS
Entries 4227
Mean 0.006662
Std Dev 1.406
χ^2 / ndf 232.7 / 47
Prob 2.044e−26
Constant 349.1± 7.6
Mean 0.01393 ± 0.01714
Sigma 1.071± 0.016
dkappa/σ_k

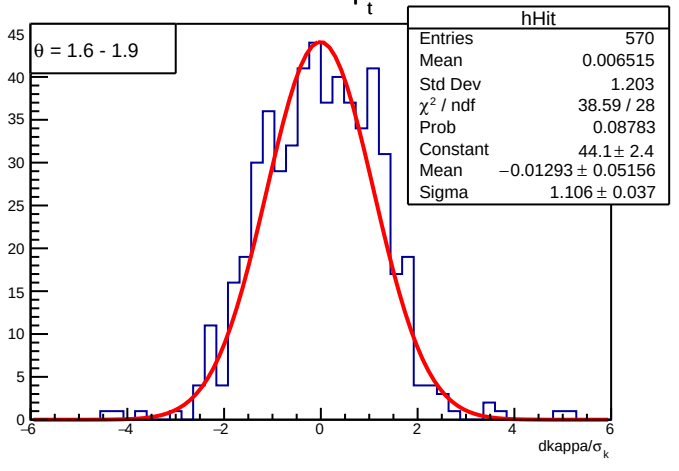

Pull distribution for p_t > 20GeV/c
θ = 0.1 - 0.4
hHit
Entries 958
Mean 0.03955
Std Dev 1.285
χ² / ndf 57.02 / 37
Prob 0.01881
Constant 71.85 ± 3.03
Mean 0.02863 ± 0.03887
Sigma 1.097 ± 0.026
dkappa/σ_k

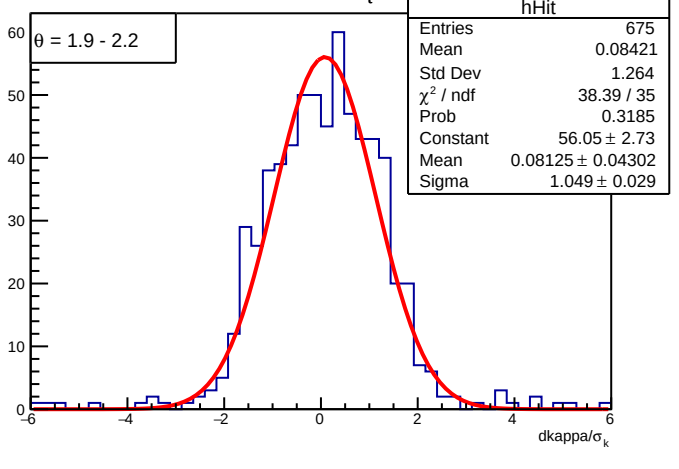

Pull distribution for p_t > 20GeV/c
θ = 0.4 - 0.7
hHit
Entries 1075
Mean −0.01525
Std Dev 1.163
χ² / ndf 24.13 / 33
Prob 0.8697
Constant 92.81 ± 3.57
Mean −0.03579 ± 0.03352
Sigma 1.045 ± 0.024
dkappa/σ_k

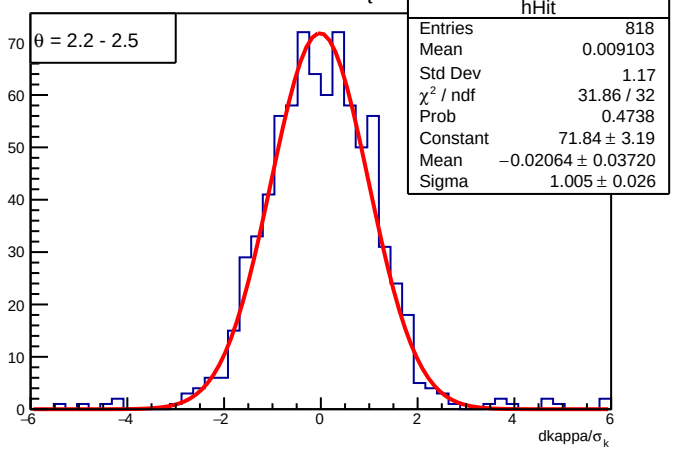

Pull distribution for p_t > 20GeV/c
θ = 0.7 - 1.0
hHit
Entries 669
Mean 0.091
Std Dev 1.226
χ² / ndf 53.11 / 32
Prob 0.01092
Constant 56.68 ± 2.77
Mean 0.00465 ± 0.04185
Sigma 0.9845 ± 0.0262
dkappa/σ_k

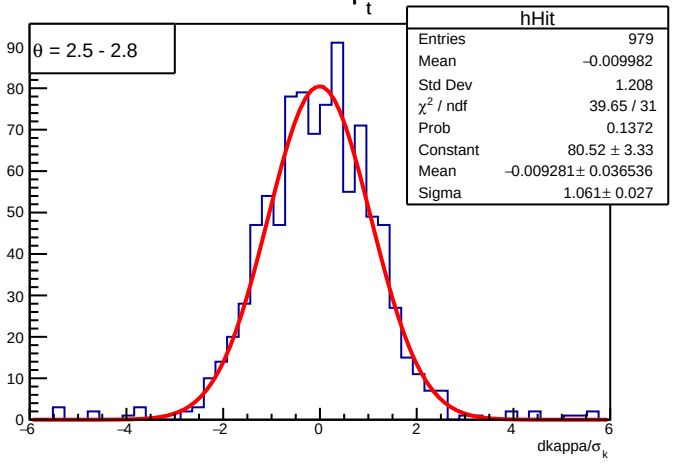

Pull distribution for p_t > 20GeV/c
θ = 1.0 - 1.3
hHit
Entries 650
Mean 0.06587
Std Dev 1.207
χ² / ndf 45.25 / 32
Prob 0.06032
Constant 52.81 ± 2.59
Mean 0.07189 ± 0.04540
Sigma 1.071 ± 0.030
dkappa/σ_k

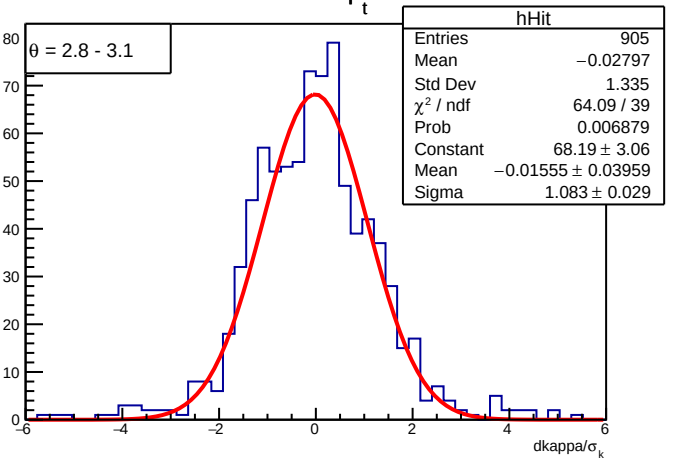

Pull distribution for p_t > 20GeV/c
θ = 1.3 - 1.6
hHit
Entries 565
Mean 0.05045
Std Dev 1.192
χ² / ndf 36.37 / 31
Prob 0.2326
Constant 46.81 ± 2.55
Mean 0.05316 ± 0.04635
Sigma 1.03 ± 0.03
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 1.6 - 1.9
hHit
Entries 570
Mean 0.006515
Std Dev 1.203
χ² / ndf 38.59 / 28
Prob 0.08783
Constant 44.1 ± 2.4
Mean −0.01293 ± 0.05156
Sigma 1.106 ± 0.037
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 1.9 - 2.2
hHit
Entries 675
Mean 0.08421
Std Dev 1.264
χ² / ndf 38.39 / 35
Prob 0.3185
Constant 56.05 ± 2.73
Mean 0.08125 ± 0.04302
Sigma 1.049 ± 0.029
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 2.2 - 2.5
hHit
Entries 818
Mean 0.009103
Std Dev 1.17
χ² / ndf 31.86 / 32
Prob 0.4738
Constant 71.84 ± 3.19
Mean −0.02064 ± 0.03720
Sigma 1.005 ± 0.026
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 2.5 - 2.8
hHit
Entries 979
Mean −0.009982
Std Dev 1.208
χ² / ndf 39.65 / 31
Prob 0.1372
Constant 80.52 ± 3.33
Mean −0.009281 ± 0.036536
Sigma 1.061 ± 0.027
dkappa/σ_k


Pull distribution for p_t > 20GeV/c
θ = 2.8 - 3.1
hHit
Entries 905
Mean −0.02797
Std Dev 1.335
χ² / ndf 64.09 / 39
Prob 0.006879
Constant 68.19 ± 3.06
Mean −0.01555 ± 0.03959
Sigma 1.083 ± 0.029
dkappa/σ_k