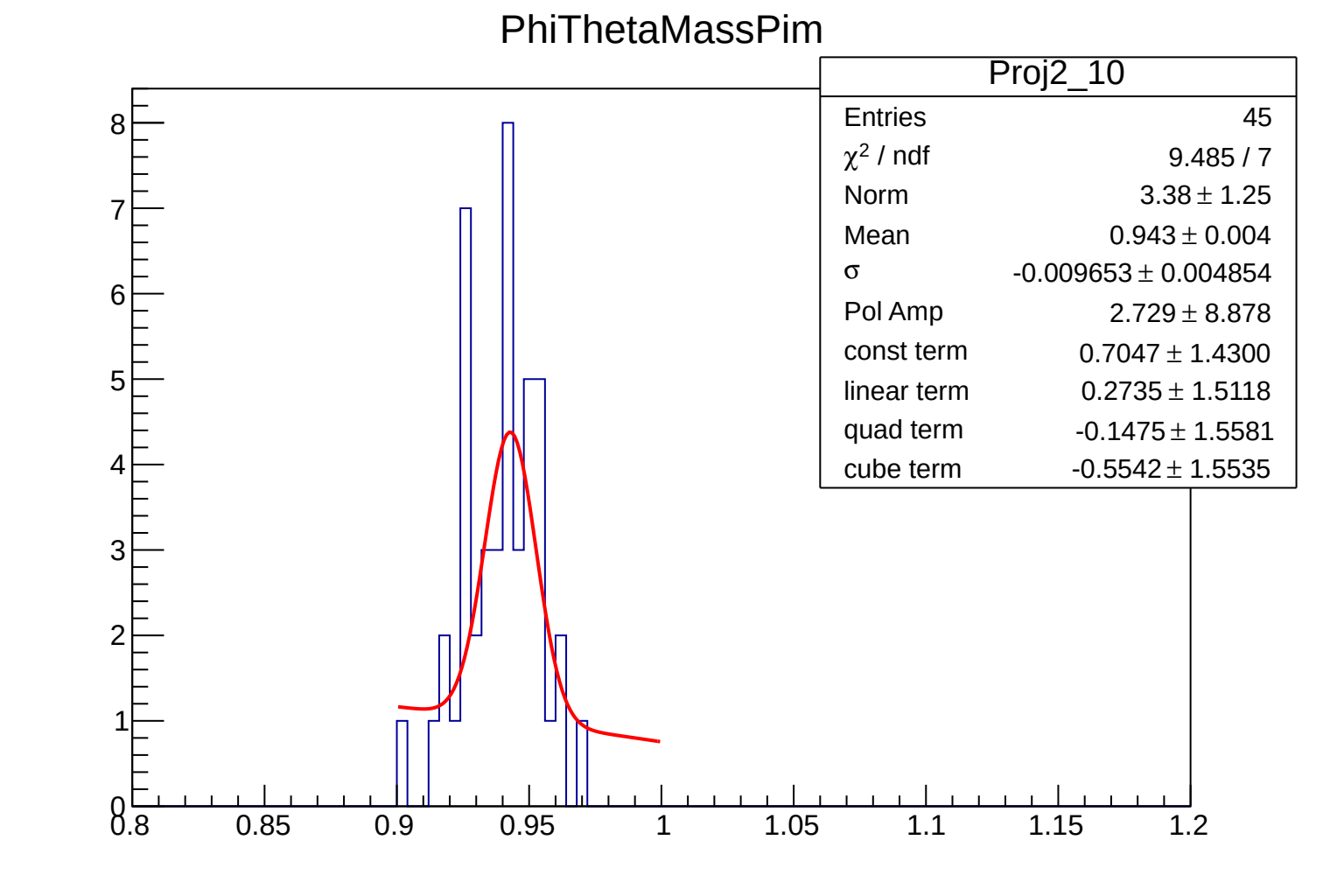
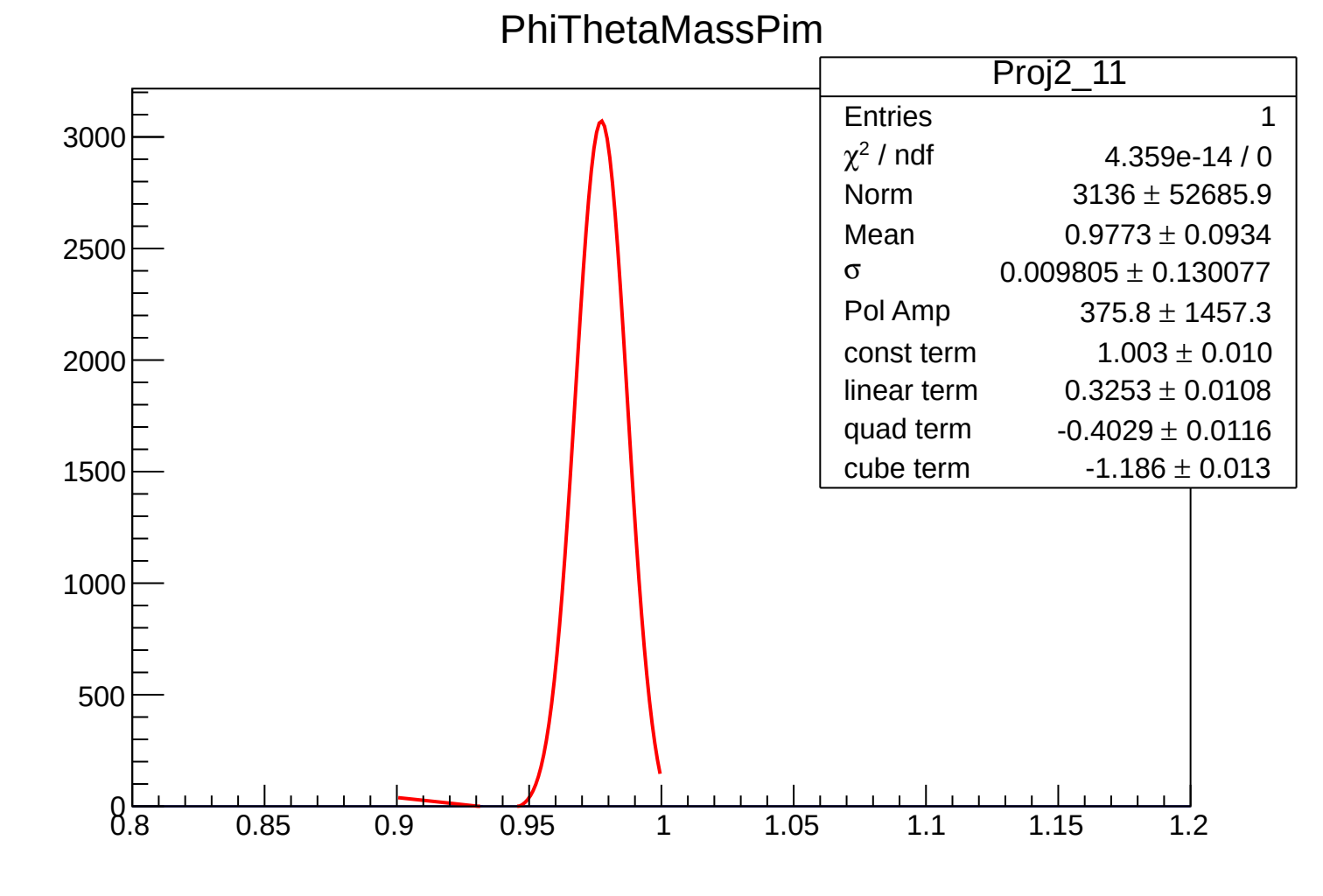
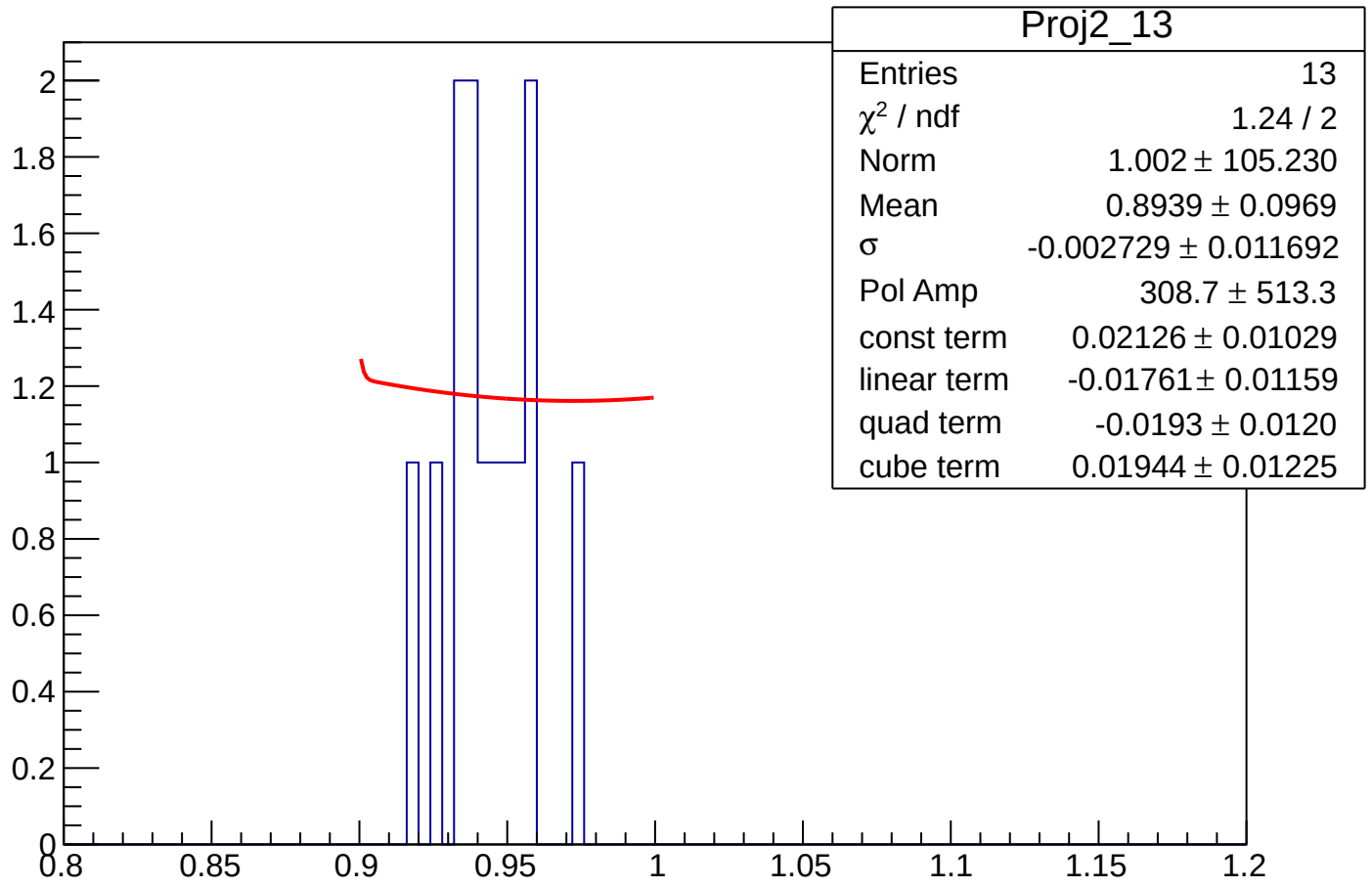
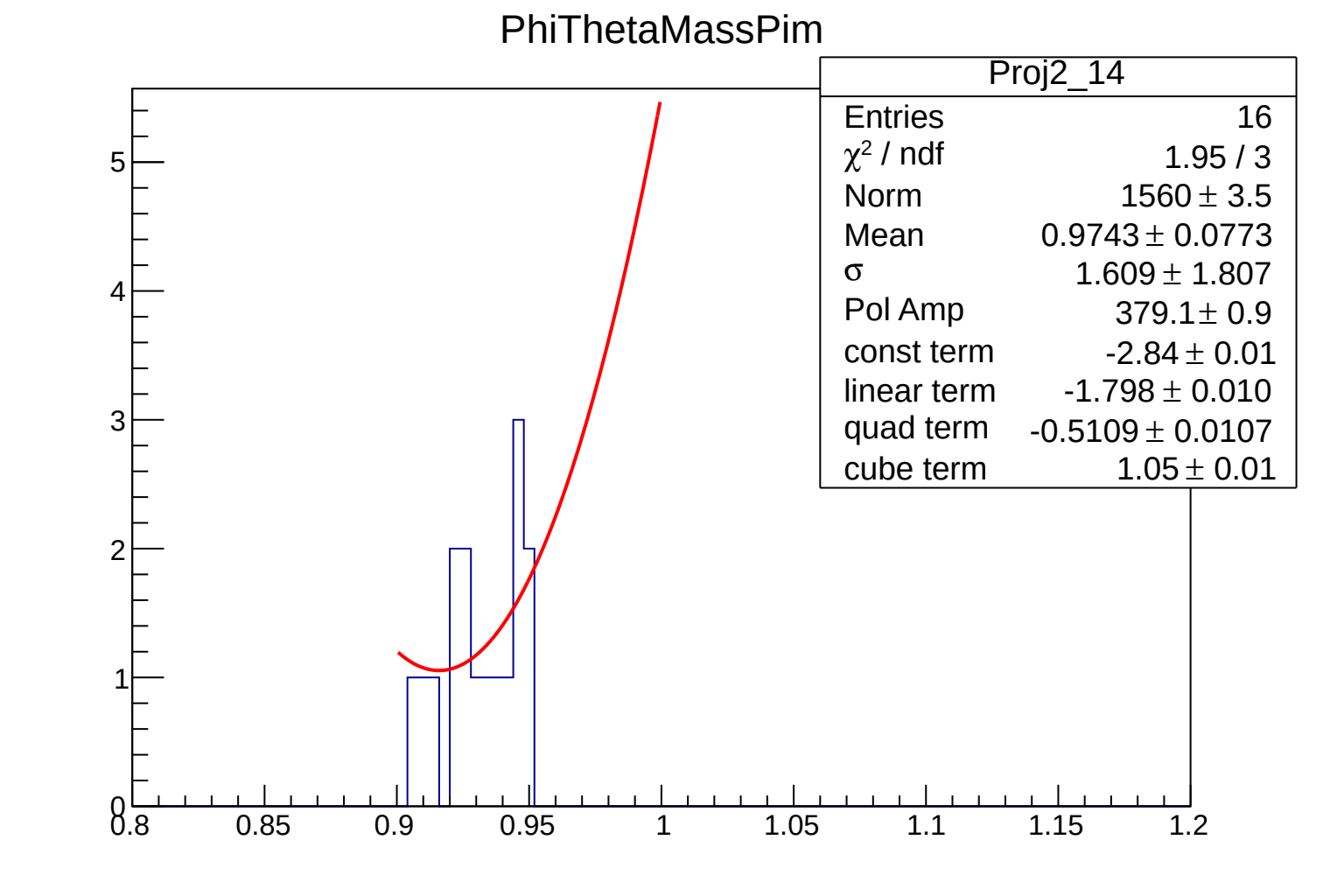
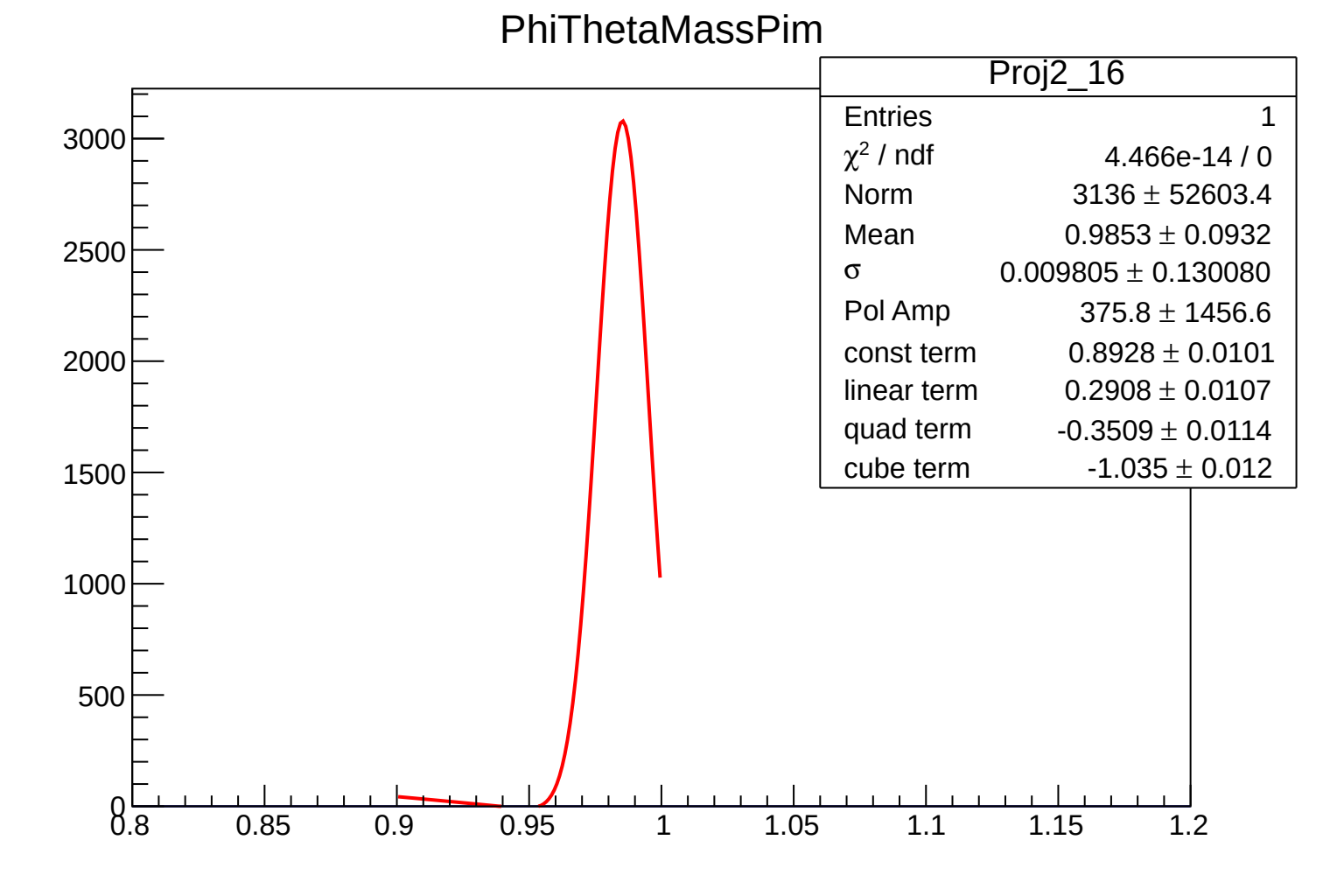
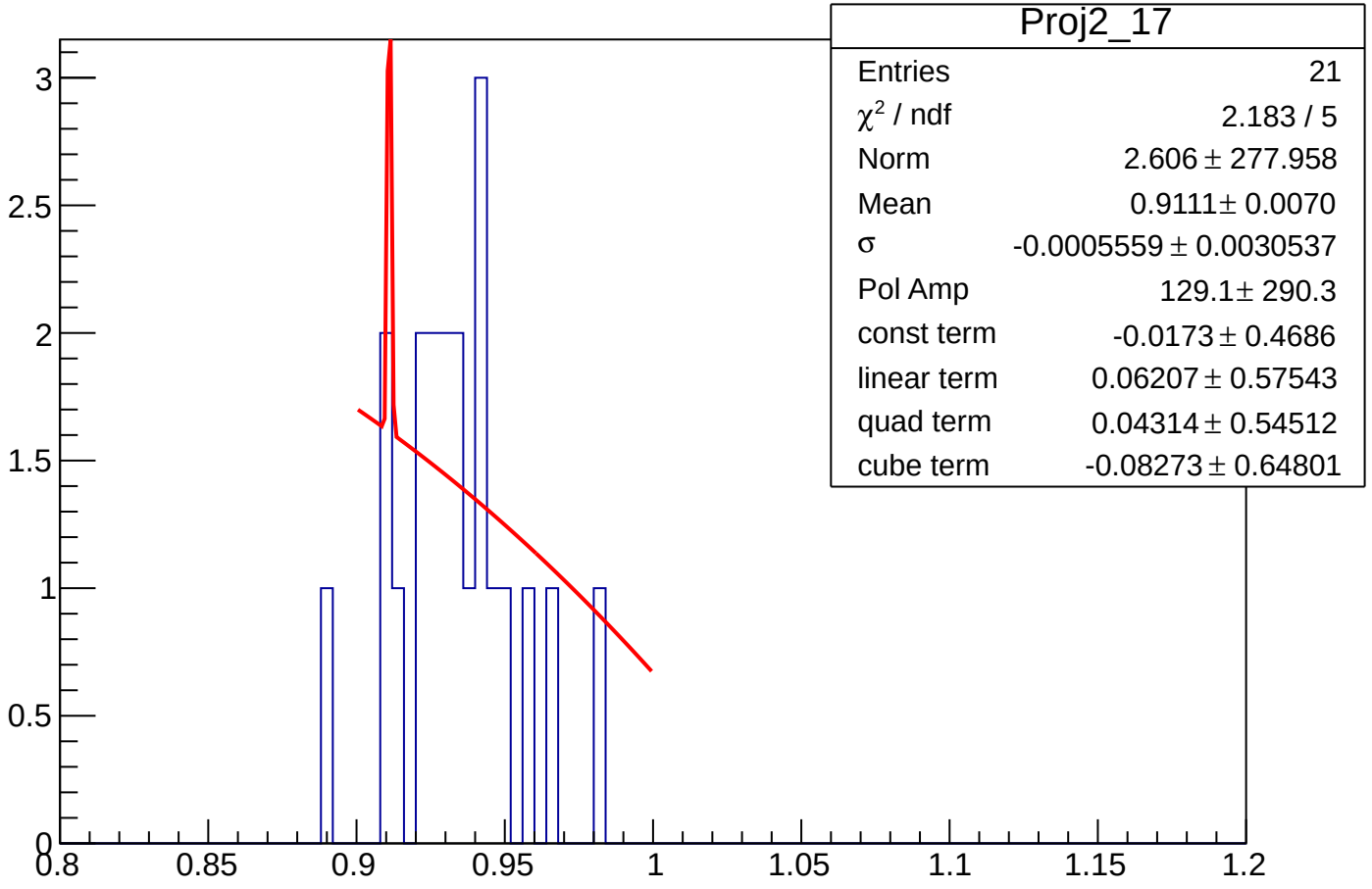

PhiThetaMassPim
Proj2_10
Entries 45
χ² / ndf 9.485 / 7
Norm 3.38 ± 1.25
Mean 0.943 ± 0.004
σ -0.009653 ± 0.004854
Pol Amp 2.729 ± 8.878
const term 0.7047 ± 1.4300
linear term 0.2735 ± 1.5118
quad term -0.1475 ± 1.5581
cube term -0.5542 ± 1.5535
0
1
2
3
4
5
6
7
8
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

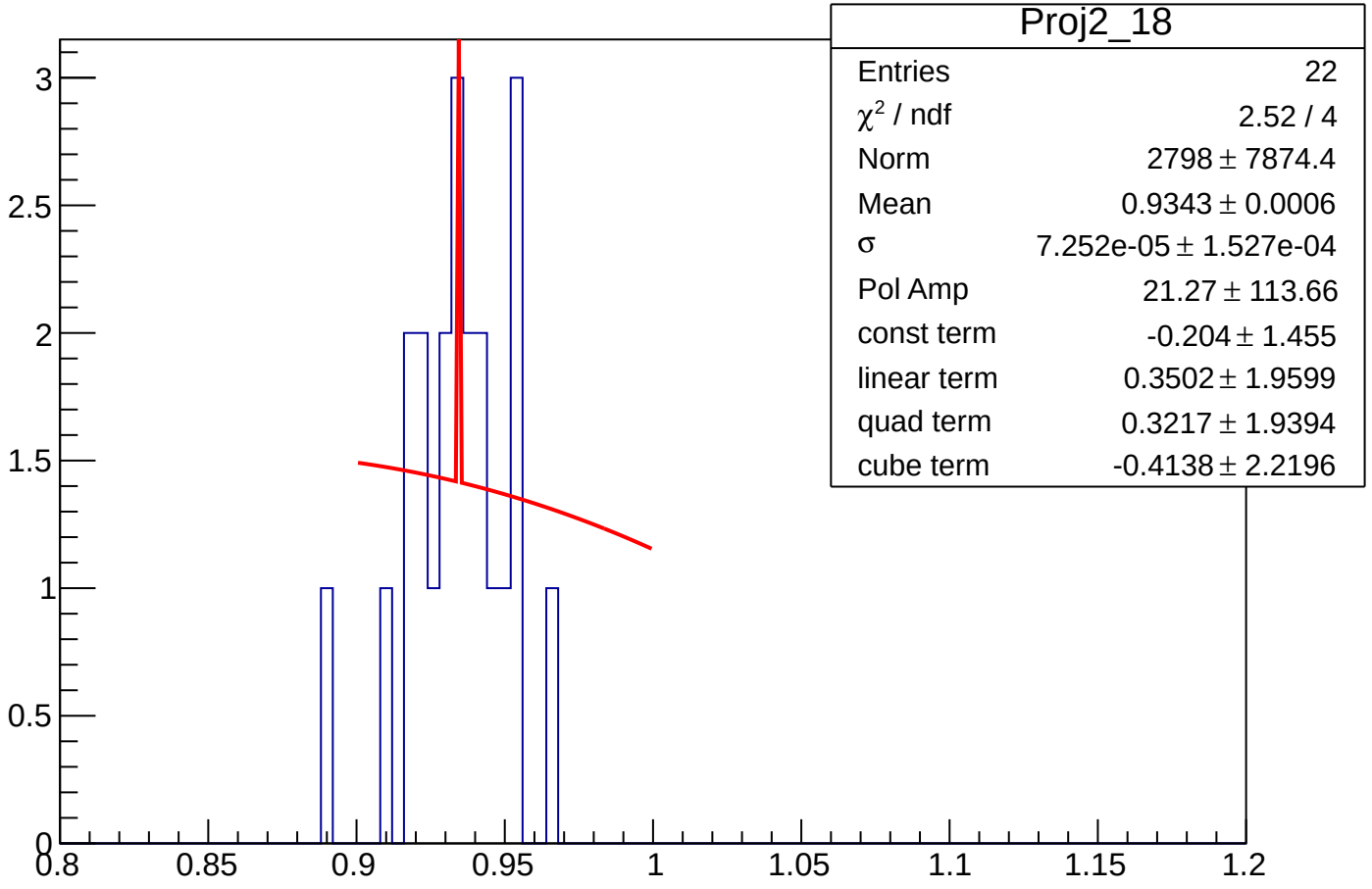

PhiThetaMassPim
Proj2_11
Entries 1
χ² / ndf 4.359e-14 / 0
Norm 3136 ± 52685.9
Mean 0.9773 ± 0.0934
σ 0.009805 ± 0.130077
Pol Amp 375.8 ± 1457.3
const term 1.003 ± 0.010
linear term 0.3253 ± 0.0108
quad term -0.4029 ± 0.0116
cube term -1.186 ± 0.013
3000
2500
2000
1500
1000
500
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

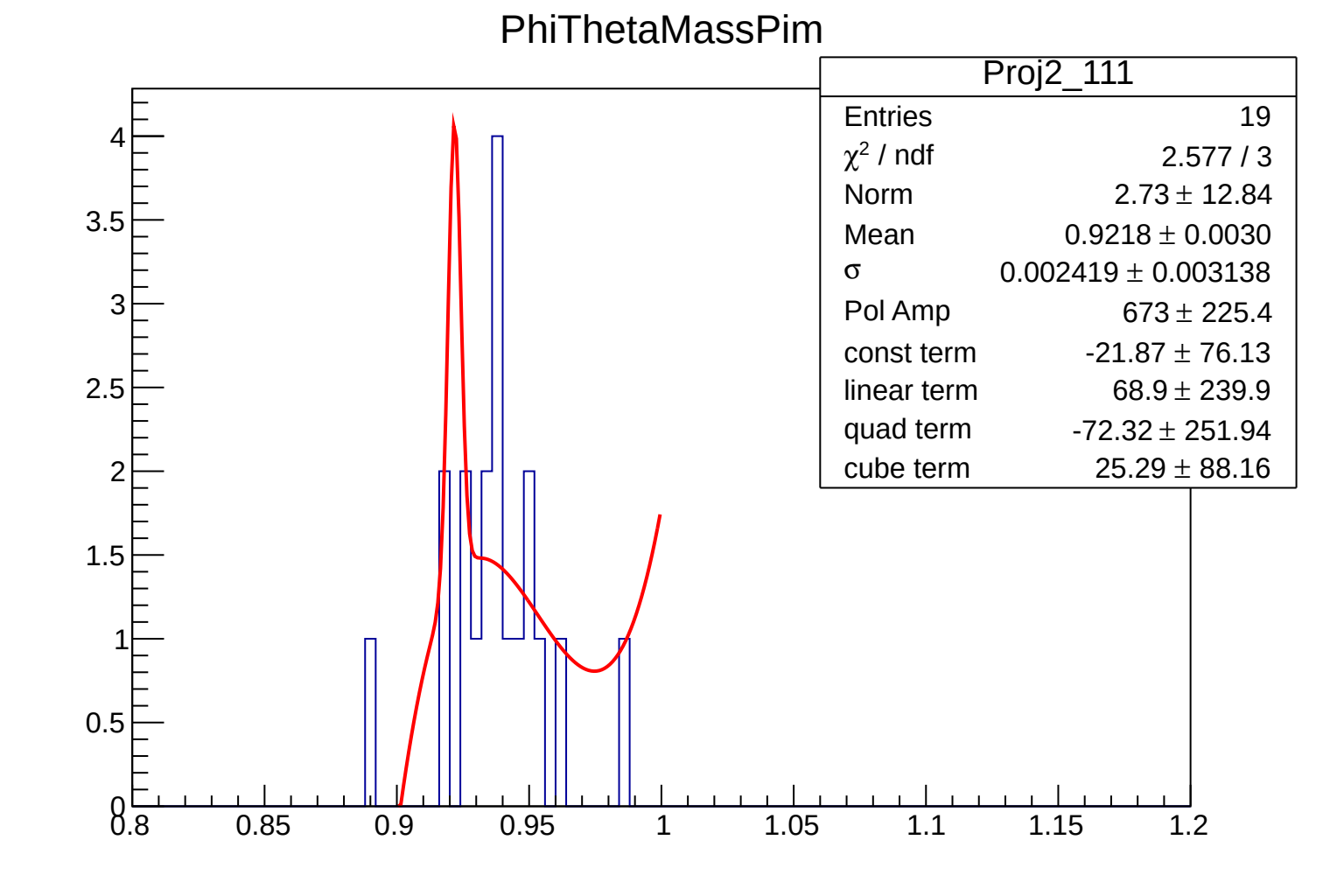

PhiThetaMassPim
Proj2_13
Entries 13
χ² / ndf 1.24 / 2
Norm 1.002 ± 105.230
Mean 0.8939 ± 0.0969
σ -0.002729 ± 0.011692
Pol Amp 308.7 ± 513.3
const term 0.02126 ± 0.01029
linear term -0.01761 ± 0.01159
quad term -0.0193 ± 0.0120
cube term 0.01944 ± 0.01225
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

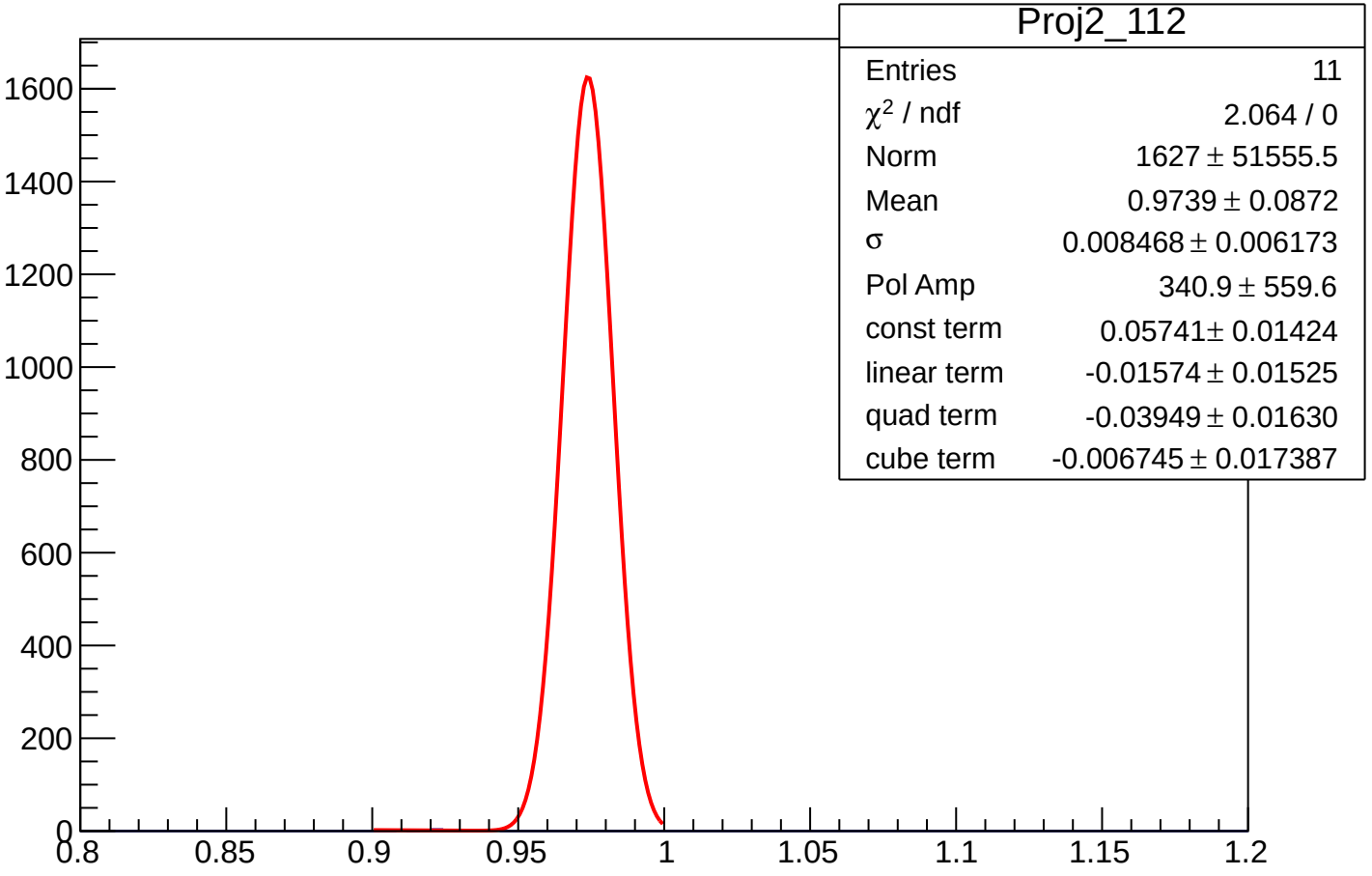

PhiThetaMassPim
Proj2_14
Entries 16
χ² / ndf 1.95 / 3
Norm 1560 ± 3.5
Mean 0.9743 ± 0.0773
σ 1.609 ± 1.807
Pol Amp 379.1 ± 0.9
const term -2.84 ± 0.01
linear term -1.798 ± 0.010
quad term -0.5109 ± 0.0107
cube term 1.05 ± 0.01
0
1
2
3
4
5
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

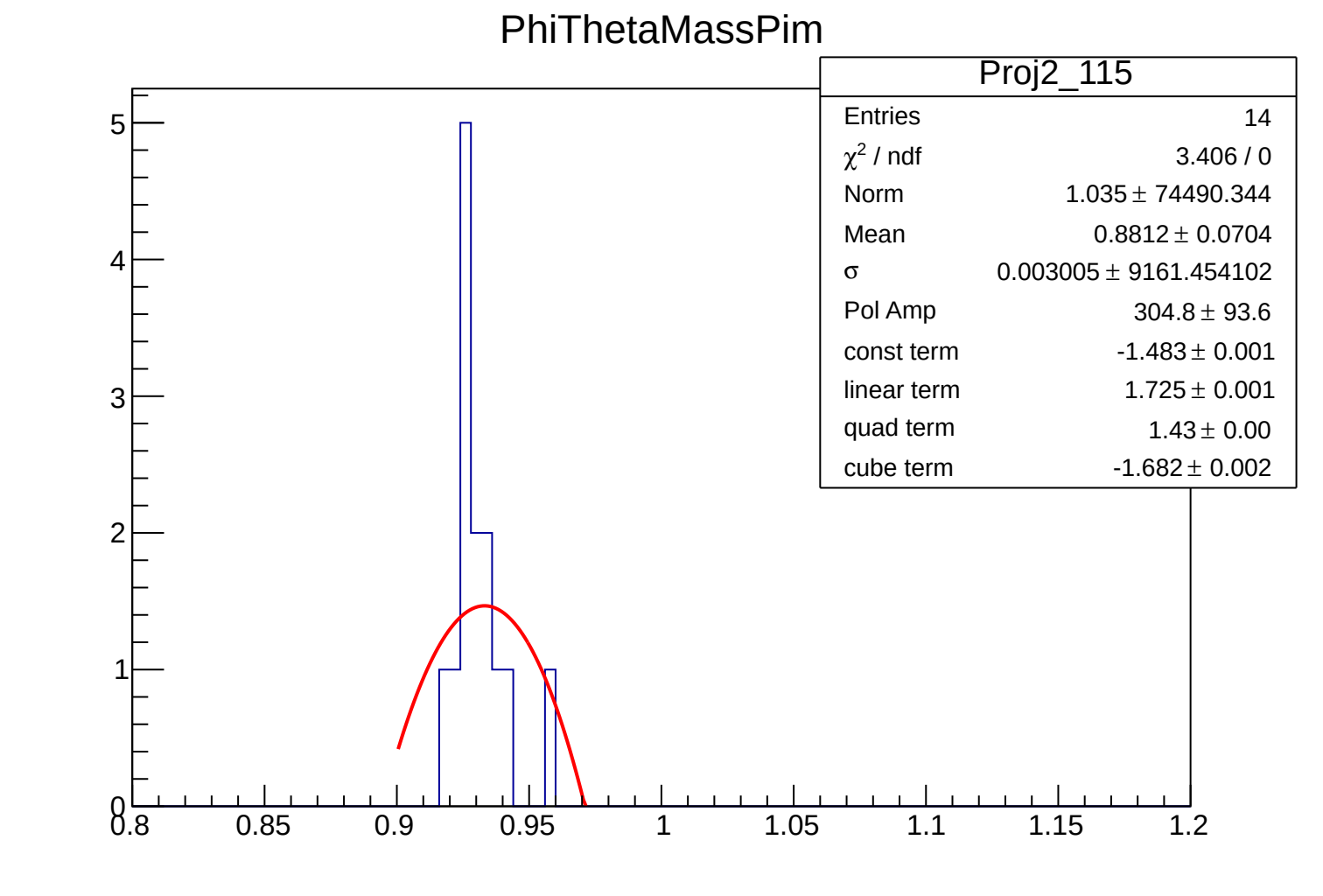

PhiThetaMassPim
Proj2_16
Entries 1
χ² / ndf 4.466e-14 / 0
Norm 3136 ± 52603.4
Mean 0.9853 ± 0.0932
σ 0.009805 ± 0.130080
Pol Amp 375.8 ± 1456.6
const term 0.8928 ± 0.0101
linear term 0.2908 ± 0.0107
quad term -0.3509 ± 0.0114
cube term -1.035 ± 0.012
3000
2500
2000
1500
1000
500
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

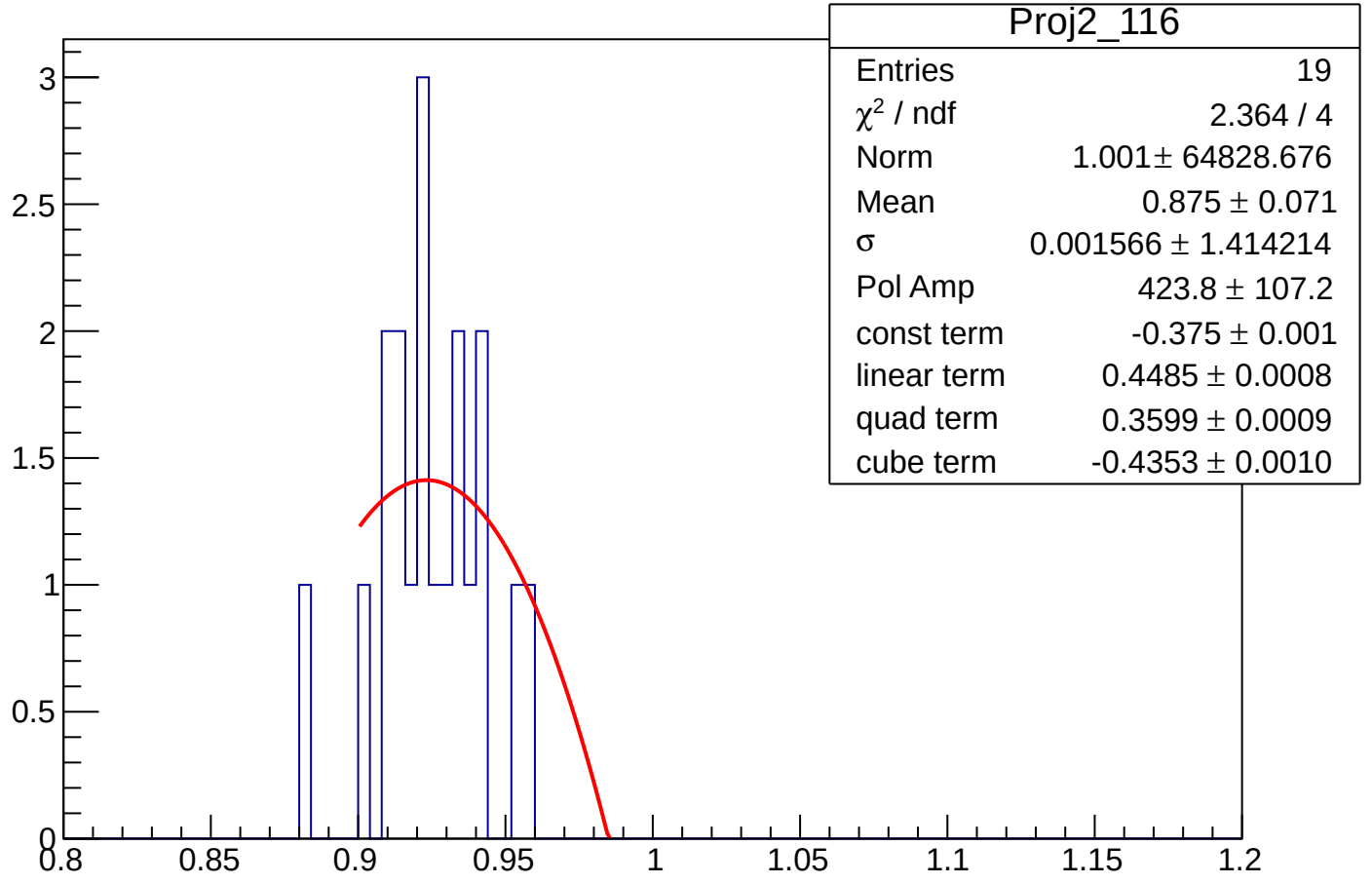

PhiThetaMassPim
Proj2_17
Entries 21
χ² / ndf 2.183 / 5
Norm 2.606 ± 277.958
Mean 0.9111 ± 0.0070
σ -0.0005559 ± 0.0030537
Pol Amp 129.1 ± 290.3
const term -0.0173 ± 0.4686
linear term 0.06207 ± 0.57543
quad term 0.04314 ± 0.54512
cube term -0.08273 ± 0.64801
0
0.5
1
1.5
2
2.5
3
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

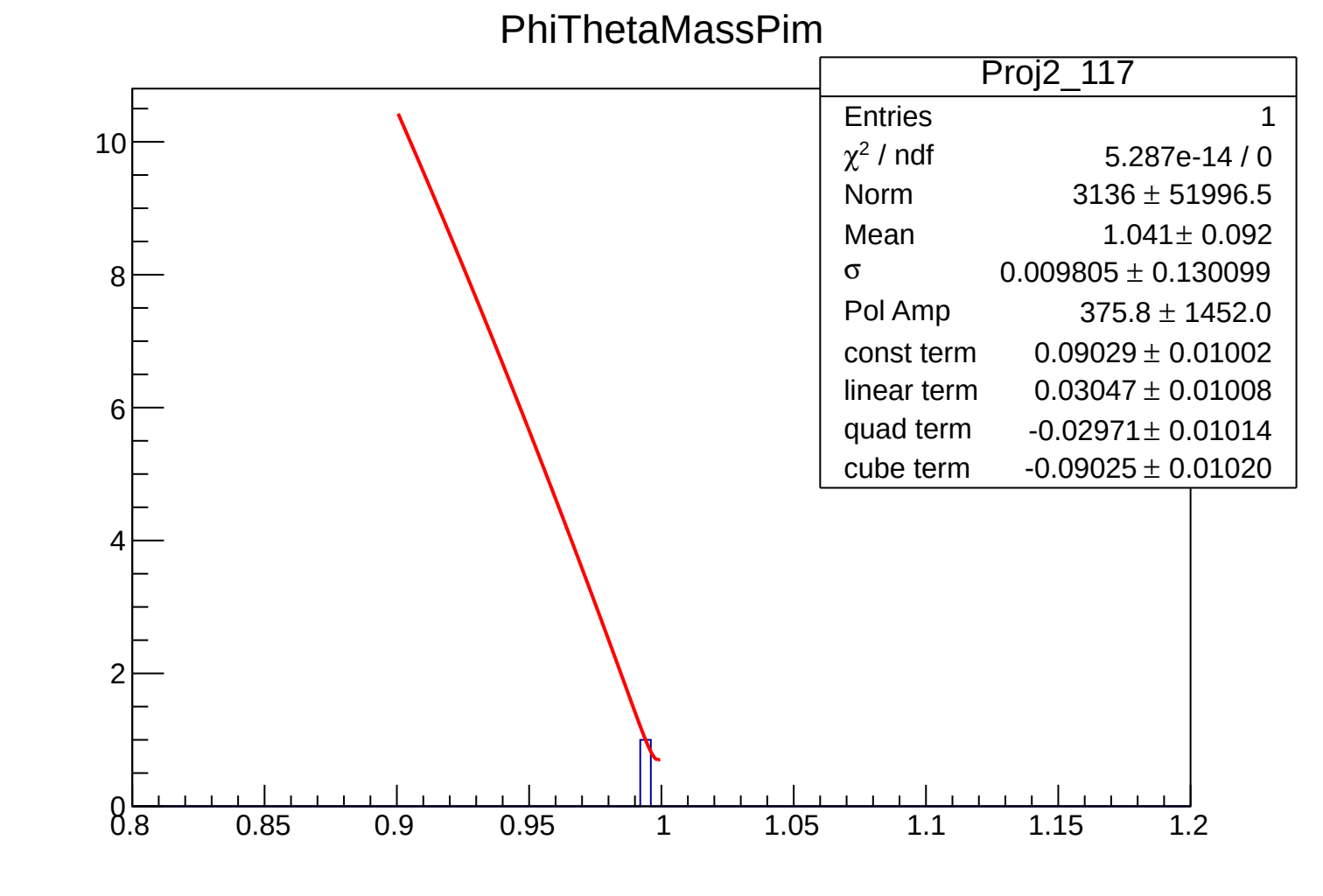

PhiThetaMassPim
Proj2_18
Entries 22
χ² / ndf 2.52 / 4
Norm 2798 ± 7874.4
Mean 0.9343 ± 0.0006
σ 7.252e-05 ± 1.527e-04
Pol Amp 21.27 ± 113.66
const term -0.204 ± 1.455
linear term 0.3502 ± 1.9599
quad term 0.3217 ± 1.9394
cube term -0.4138 ± 2.2196
0
0.5
1
1.5
2
2.5
3
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

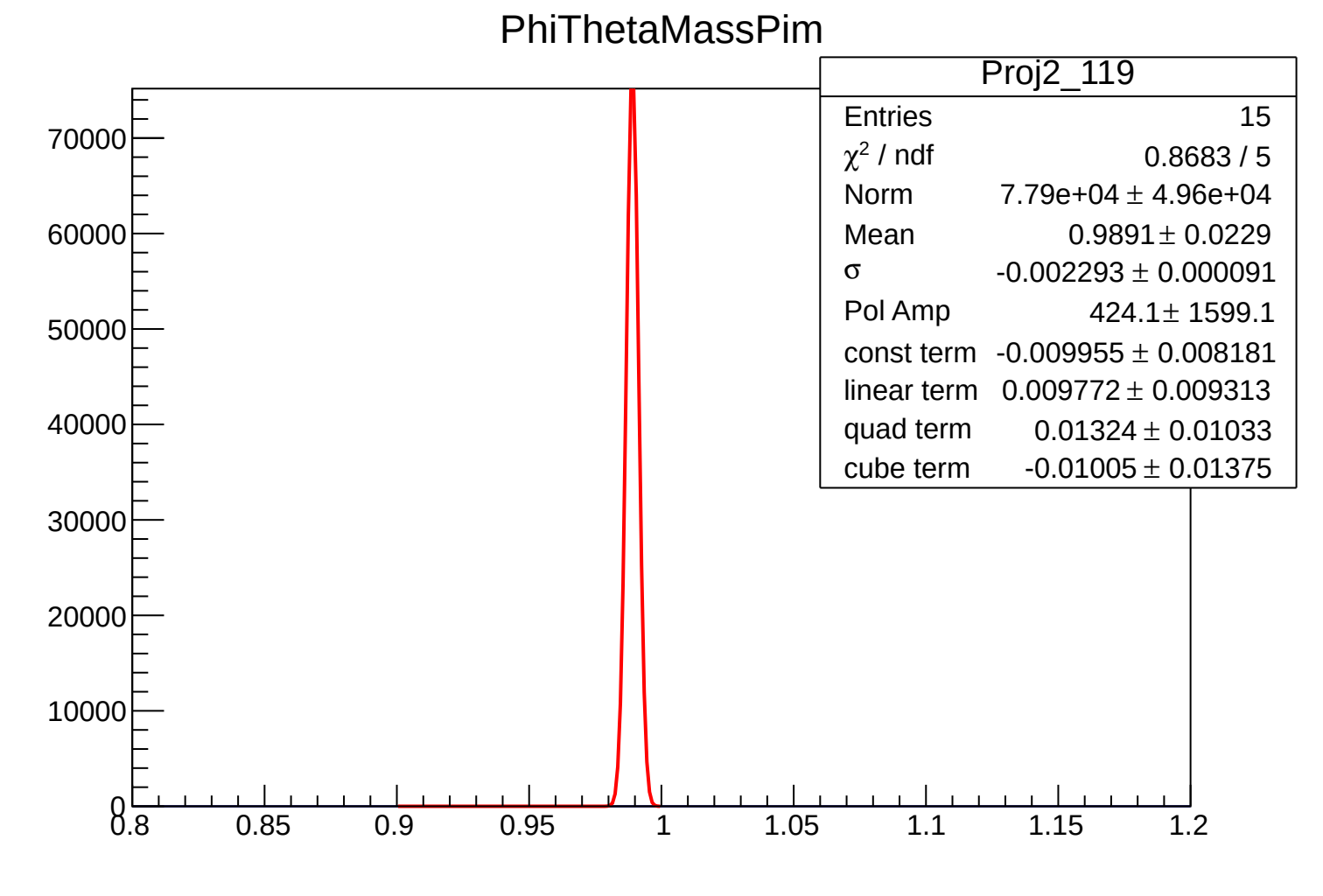

PhiThetaMassPim
Proj2_111
Entries 19
χ² / ndf 2.577 / 3
Norm 2.73 ± 12.84
Mean 0.9218 ± 0.0030
σ 0.002419 ± 0.003138
Pol Amp 673 ± 225.4
const term -21.87 ± 76.13
linear term 68.9 ± 239.9
quad term -72.32 ± 251.94
cube term 25.29 ± 88.16
0
0.5
1
1.5
2
2.5
3
3.5
4
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

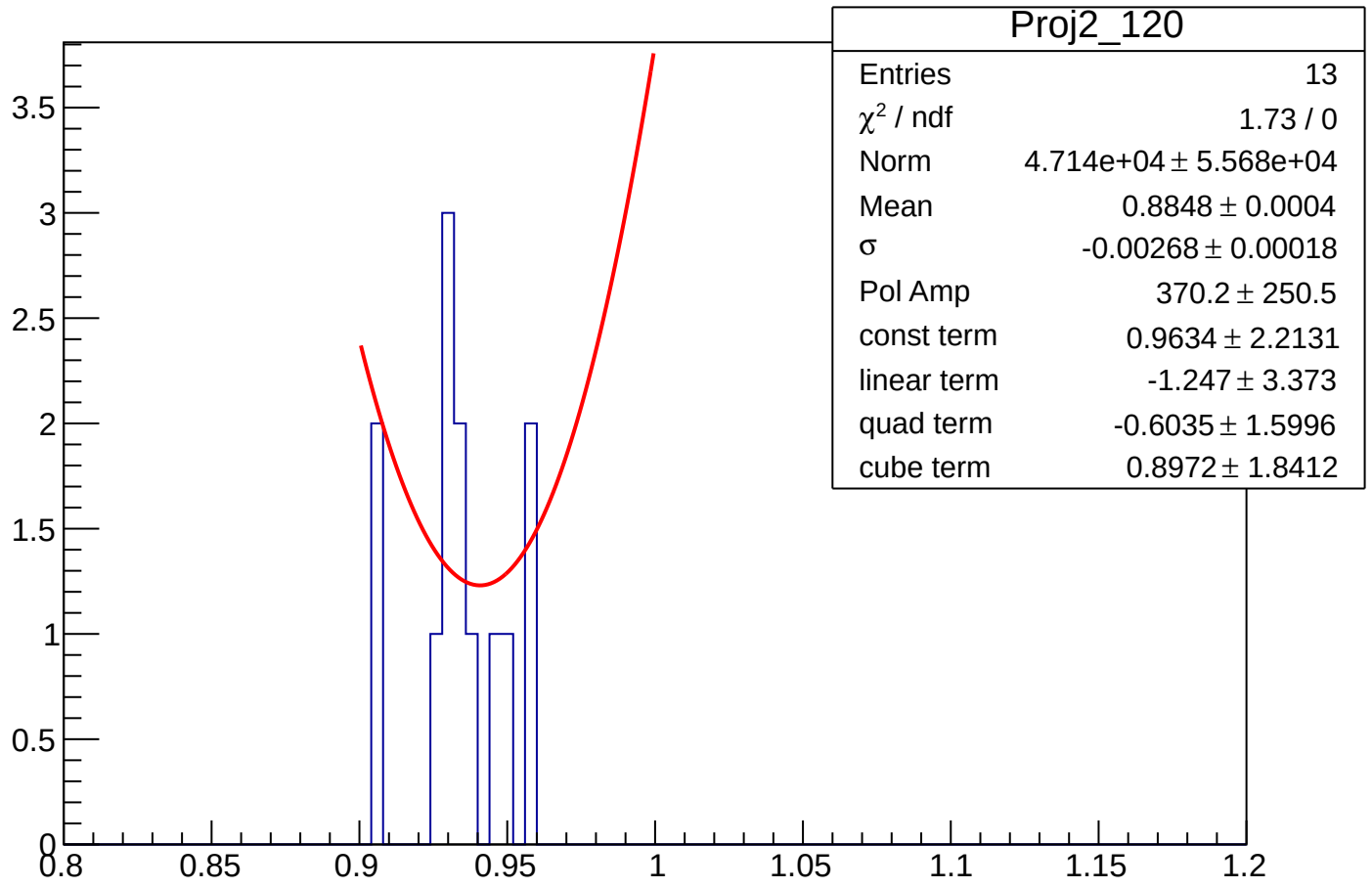

PhiThetaMassPim
Proj2_112
Entries 11
χ² / ndf 2.064 / 0
Norm 1627 ± 51555.5
Mean 0.9739 ± 0.0872
σ 0.008468 ± 0.006173
Pol Amp 340.9 ± 559.6
const term 0.05741 ± 0.01424
linear term -0.01574 ± 0.01525
quad term -0.03949 ± 0.01630
cube term -0.006745 ± 0.017387
1600
1400
1200
1000
800
600
400
200
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

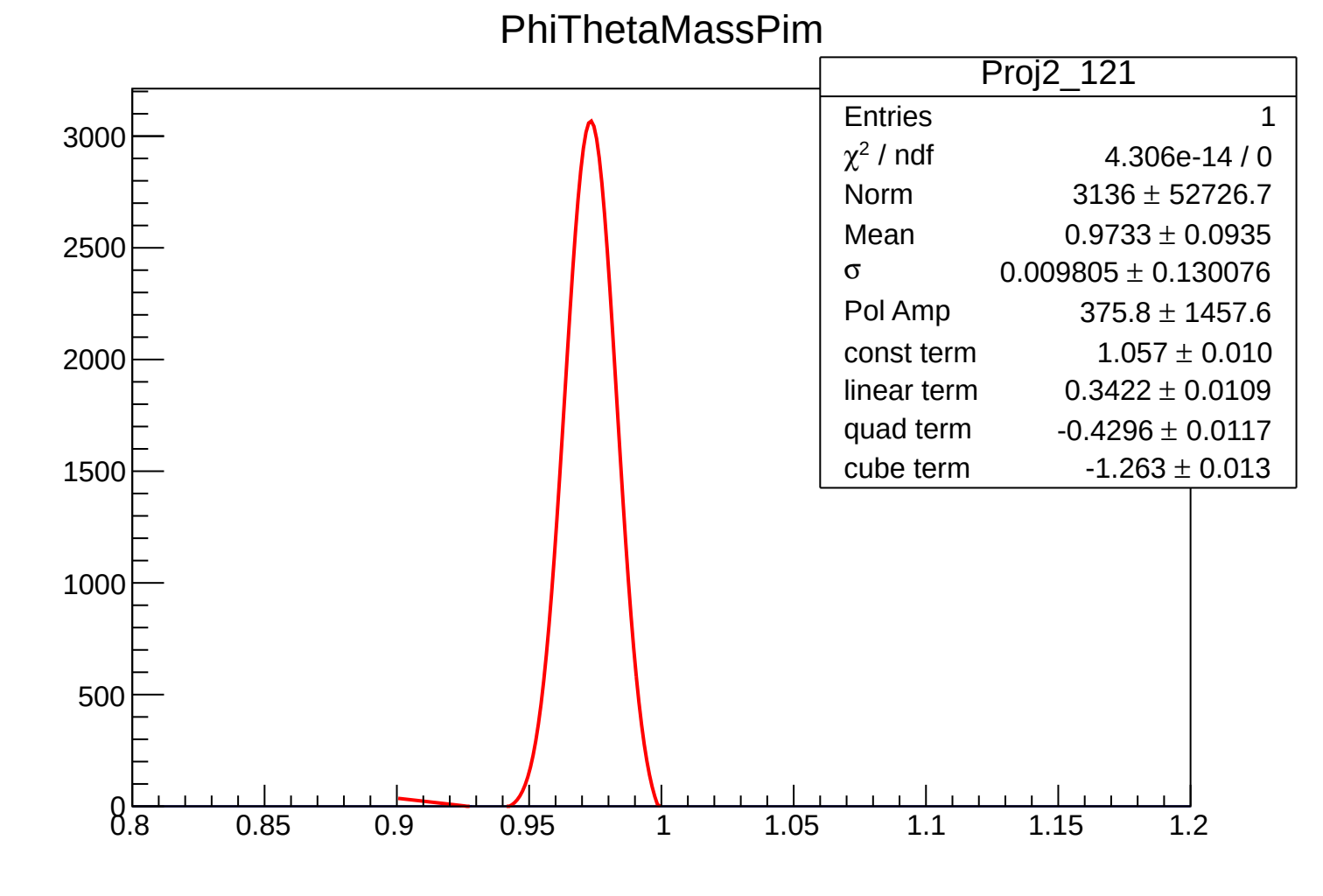

PhiThetaMassPim
Proj2_115
Entries 14
χ² / ndf 3.406 / 0
Norm 1.035 ± 74490.344
Mean 0.8812 ± 0.0704
σ 0.003005 ± 9161.454102
Pol Amp 304.8 ± 93.6
const term -1.483 ± 0.001
linear term 1.725 ± 0.001
quad term 1.43 ± 0.00
cube term -1.682 ± 0.002
0
1
2
3
4
5
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

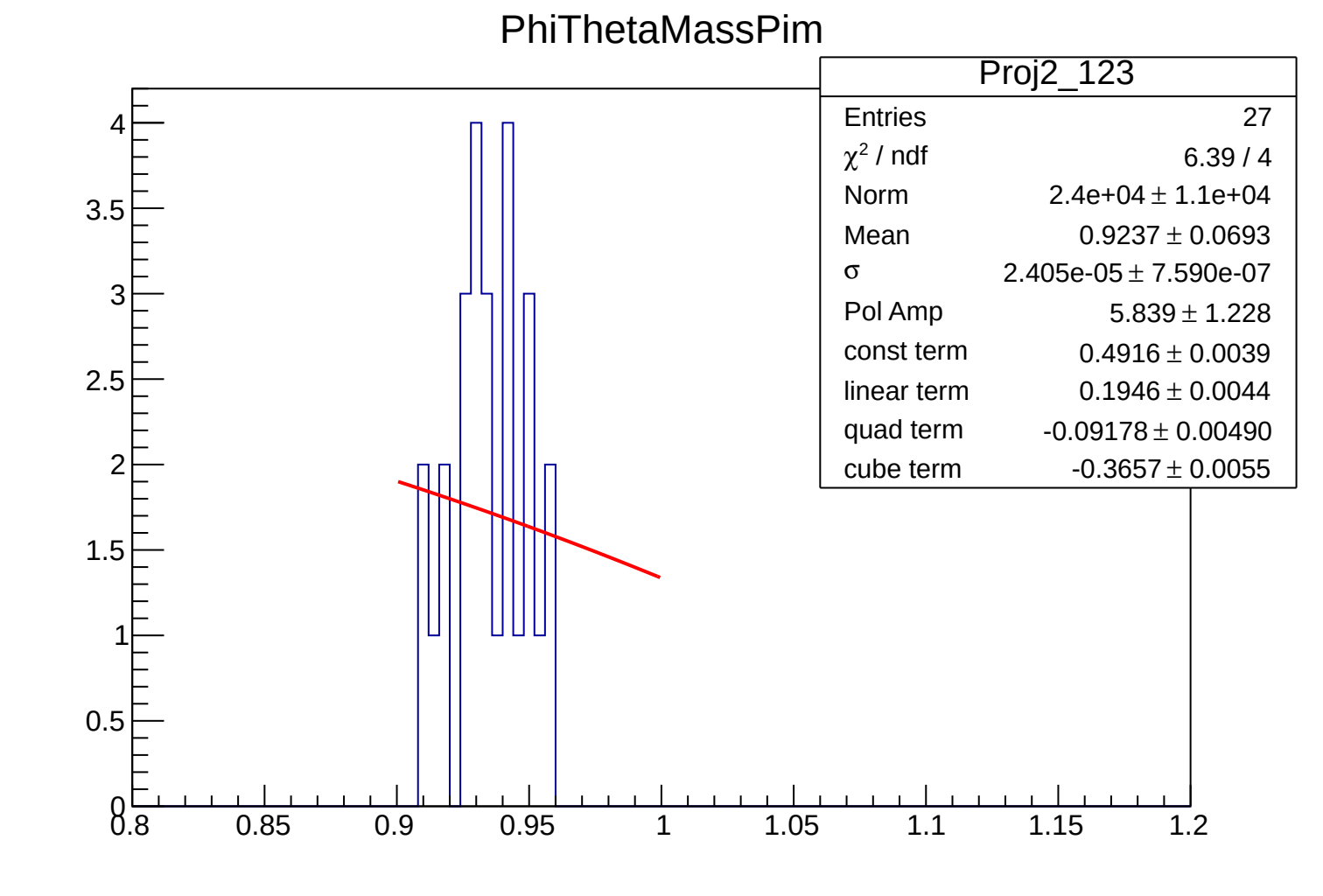

PhiThetaMassPim
Proj2_116
Entries 19
χ² / ndf 2.364 / 4
Norm 1.001± 64828.676
Mean 0.875 ± 0.071
σ 0.001566 ± 1.414214
Pol Amp 423.8 ± 107.2
const term -0.375 ± 0.001
linear term 0.4485 ± 0.0008
quad term 0.3599 ± 0.0009
cube term -0.4353 ± 0.0010
0
0.5
1
1.5
2
2.5
3
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

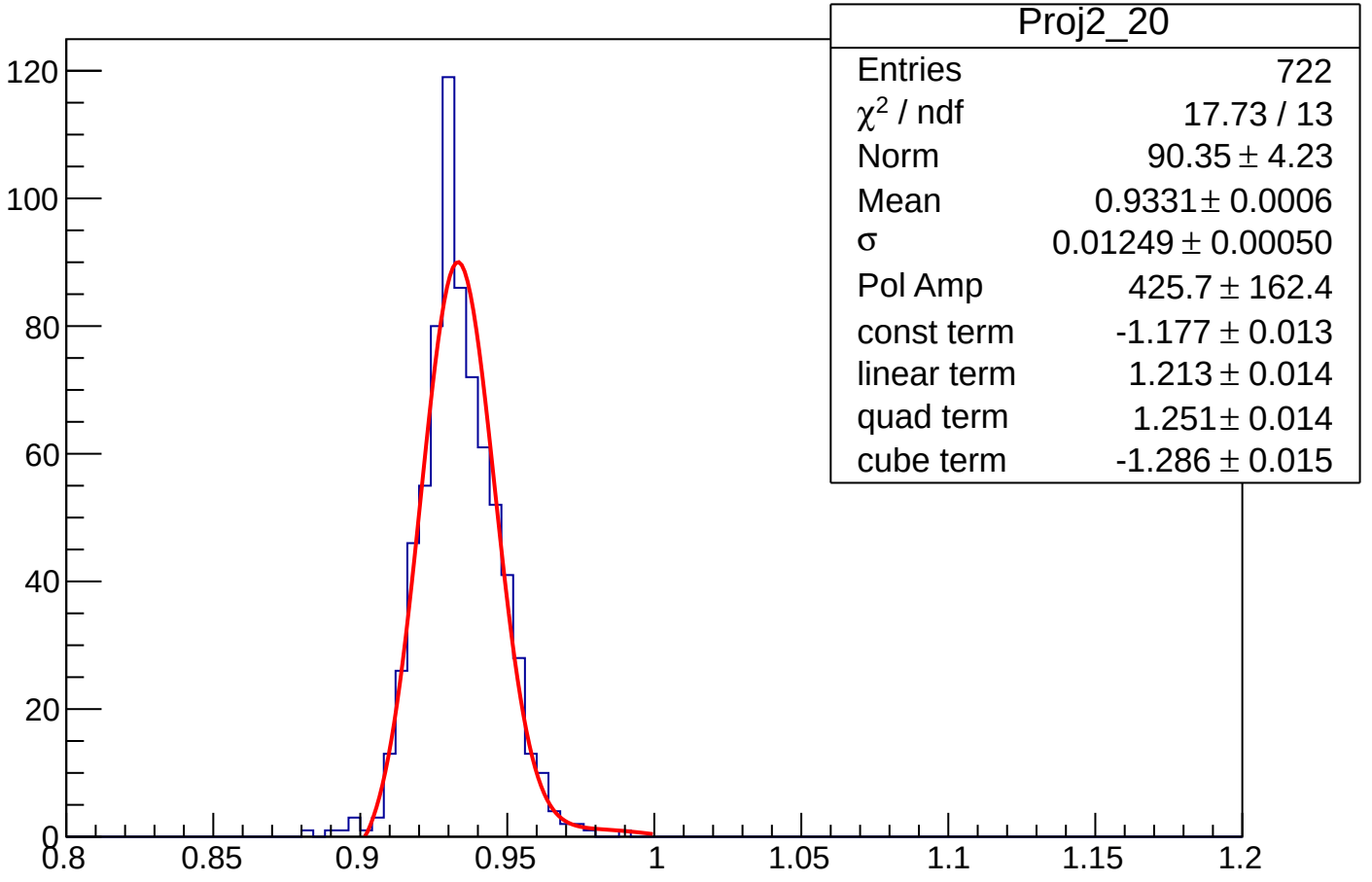

PhiThetaMassPim
Proj2_117
Entries 1
χ² / ndf 5.287e-14 / 0
Norm 3136 ± 51996.5
Mean 1.041 ± 0.092
σ 0.009805 ± 0.130099
Pol Amp 375.8 ± 1452.0
const term 0.09029 ± 0.01002
linear term 0.03047 ± 0.01008
quad term -0.02971 ± 0.01014
cube term -0.09025 ± 0.01020
0
2
4
6
8
10
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

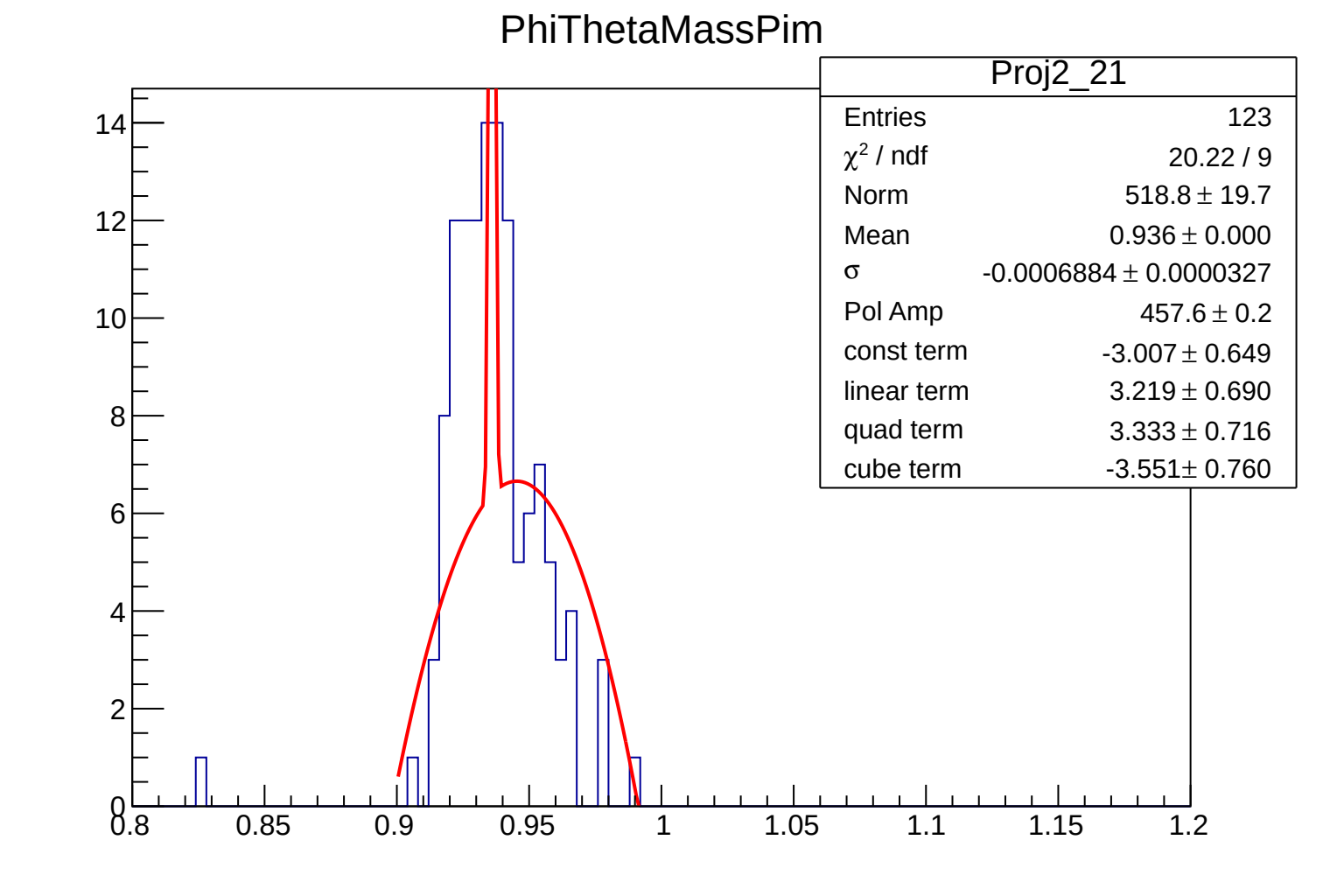

PhiThetaMassPim
Proj2_119
Entries 15
χ² / ndf 0.8683 / 5
Norm 7.79e+04 ± 4.96e+04
Mean 0.9891 ± 0.0229
σ -0.002293 ± 0.000091
Pol Amp 424.1 ± 1599.1
const term -0.009955 ± 0.008181
linear term 0.009772 ± 0.009313
quad term 0.01324 ± 0.01033
cube term -0.01005 ± 0.01375
70000
60000
50000
40000
30000
20000
10000
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

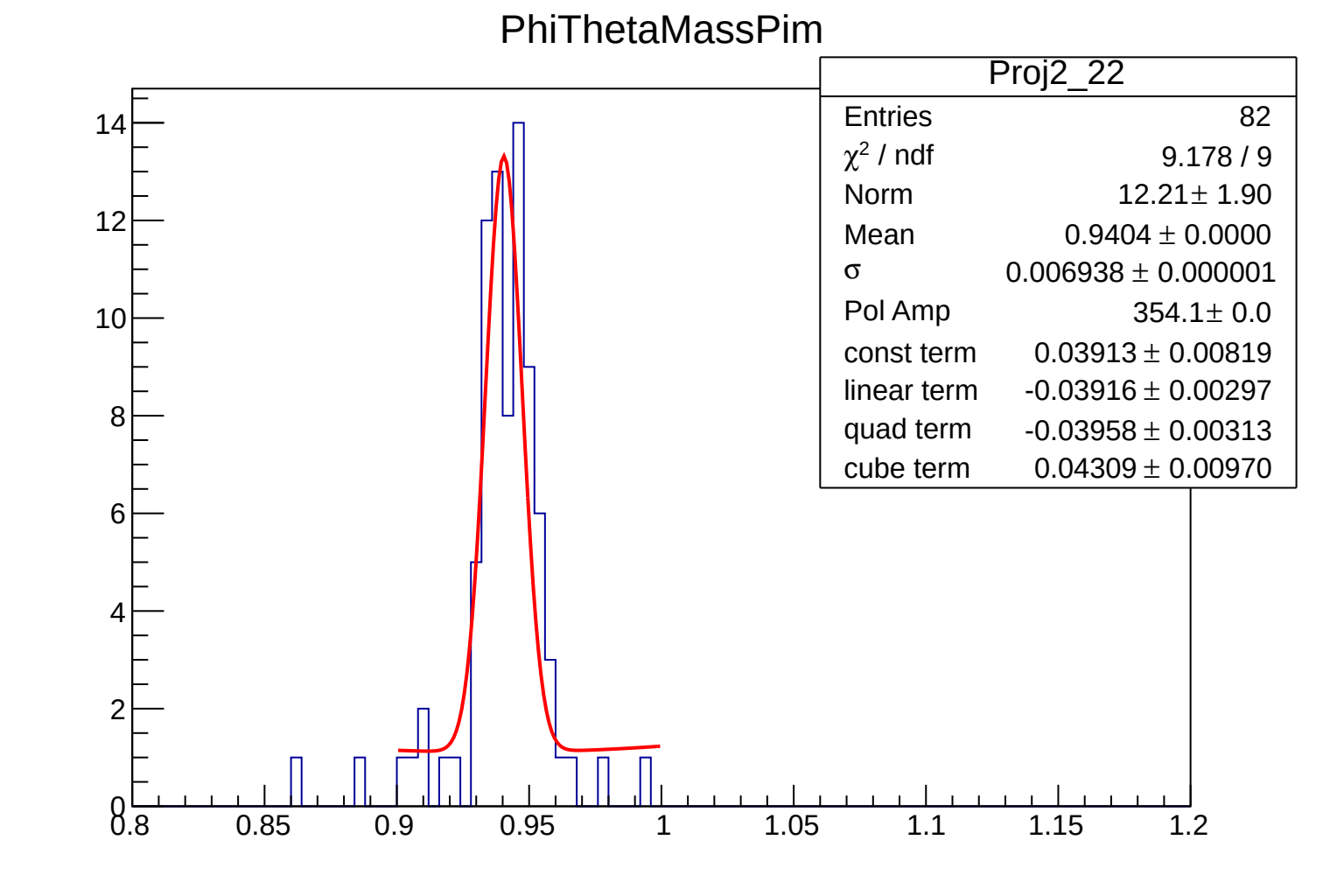

PhiThetaMassPim
Proj2_120
Entries 13
χ² / ndf 1.73 / 0
Norm 4.714e+04 ± 5.568e+04
Mean 0.8848 ± 0.0004
σ -0.00268 ± 0.00018
Pol Amp 370.2 ± 250.5
const term 0.9634 ± 2.2131
linear term -1.247 ± 3.373
quad term -0.6035 ± 1.5996
cube term 0.8972 ± 1.8412
0
0.5
1
1.5
2
2.5
3
3.5
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

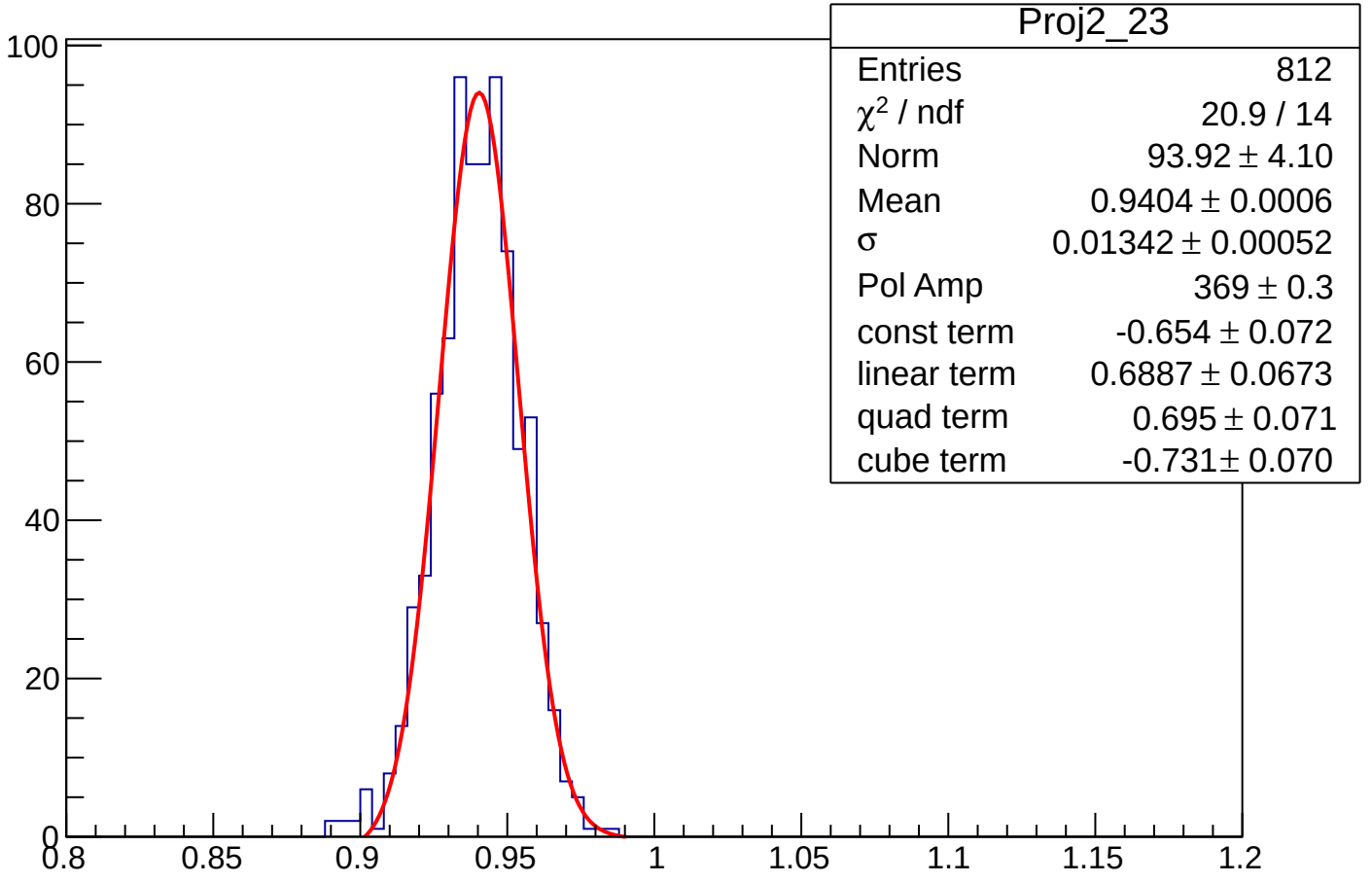

PhiThetaMassPim
Proj2_121
Entries 1
χ² / ndf 4.306e-14 / 0
Norm 3136 ± 52726.7
Mean 0.9733 ± 0.0935
σ 0.009805 ± 0.130076
Pol Amp 375.8 ± 1457.6
const term 1.057 ± 0.010
linear term 0.3422 ± 0.0109
quad term -0.4296 ± 0.0117
cube term -1.263 ± 0.013
3000
2500
2000
1500
1000
500
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

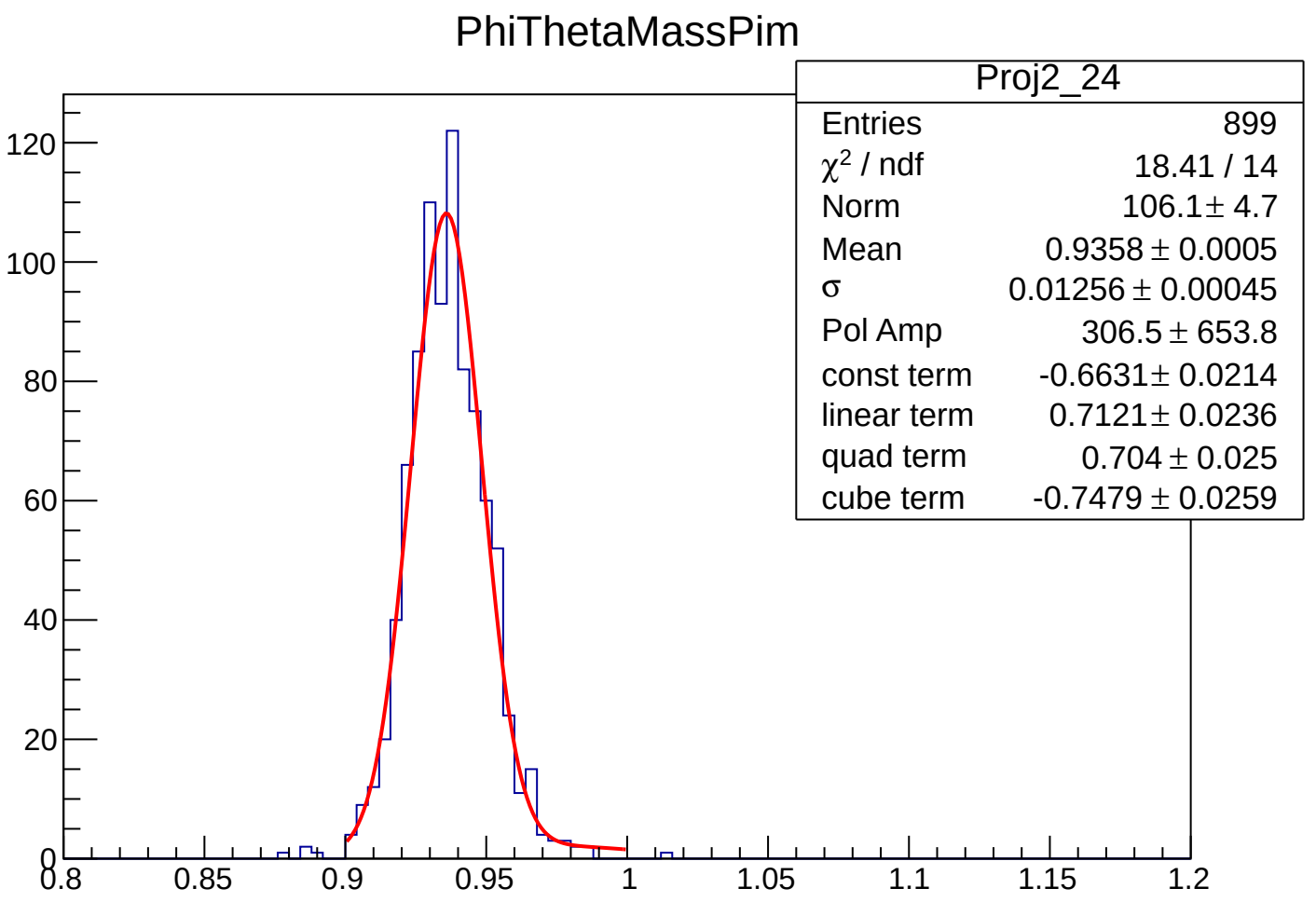

PhiThetaMassPim
Proj2_123
Entries 27
χ² / ndf 6.39 / 4
Norm 2.4e+04 ± 1.1e+04
Mean 0.9237 ± 0.0693
σ 2.405e-05 ± 7.590e-07
Pol Amp 5.839 ± 1.228
const term 0.4916 ± 0.0039
linear term 0.1946 ± 0.0044
quad term -0.09178 ± 0.00490
cube term -0.3657 ± 0.0055
0
0.5
1
1.5
2
2.5
3
3.5
4
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

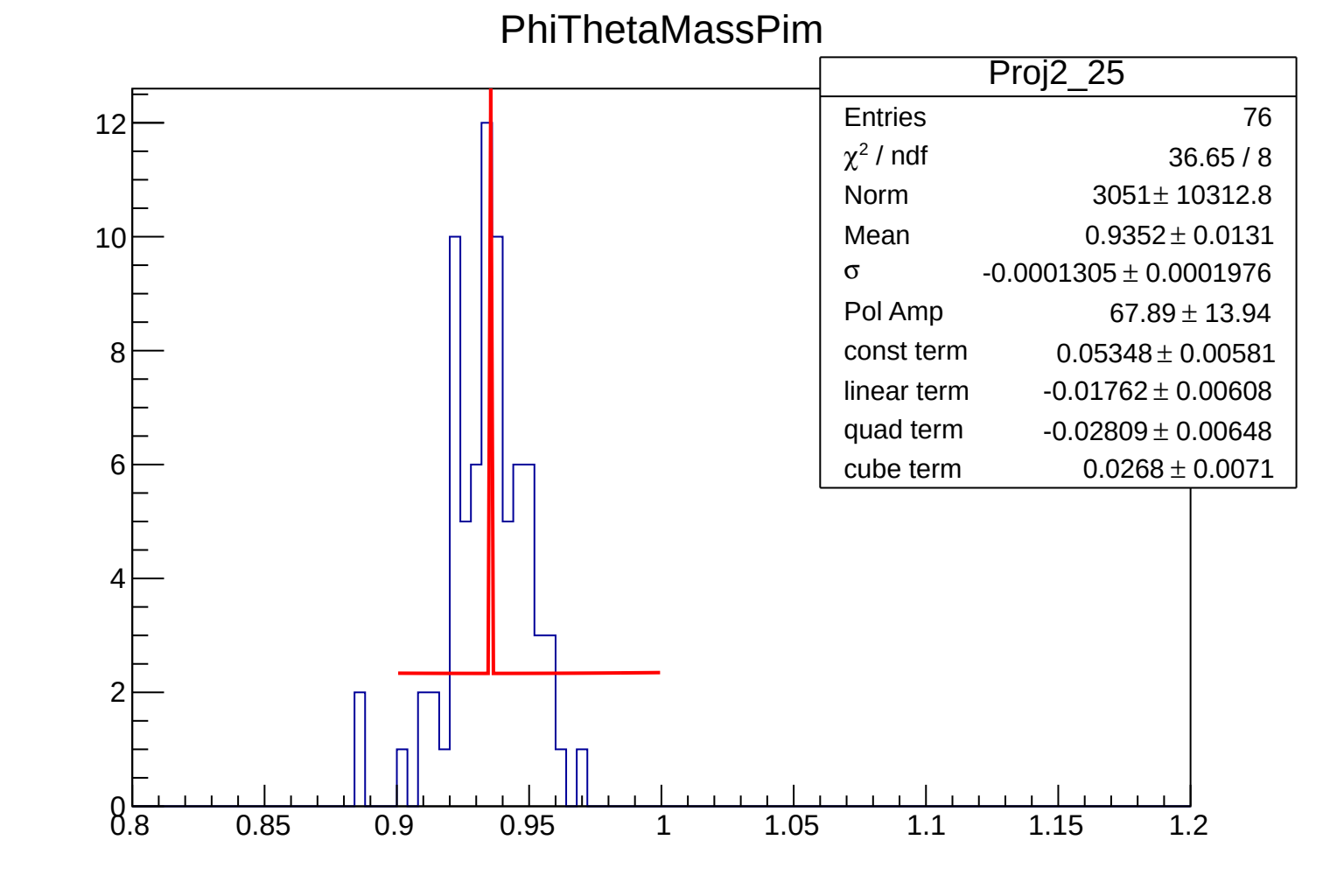

PhiThetaMassPim
Proj2_20
Entries 722
χ² / ndf 17.73 / 13
Norm 90.35 ± 4.23
Mean 0.9331 ± 0.0006
σ 0.01249 ± 0.00050
Pol Amp 425.7 ± 162.4
const term -1.177 ± 0.013
linear term 1.213 ± 0.014
quad term 1.251 ± 0.014
cube term -1.286 ± 0.015
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

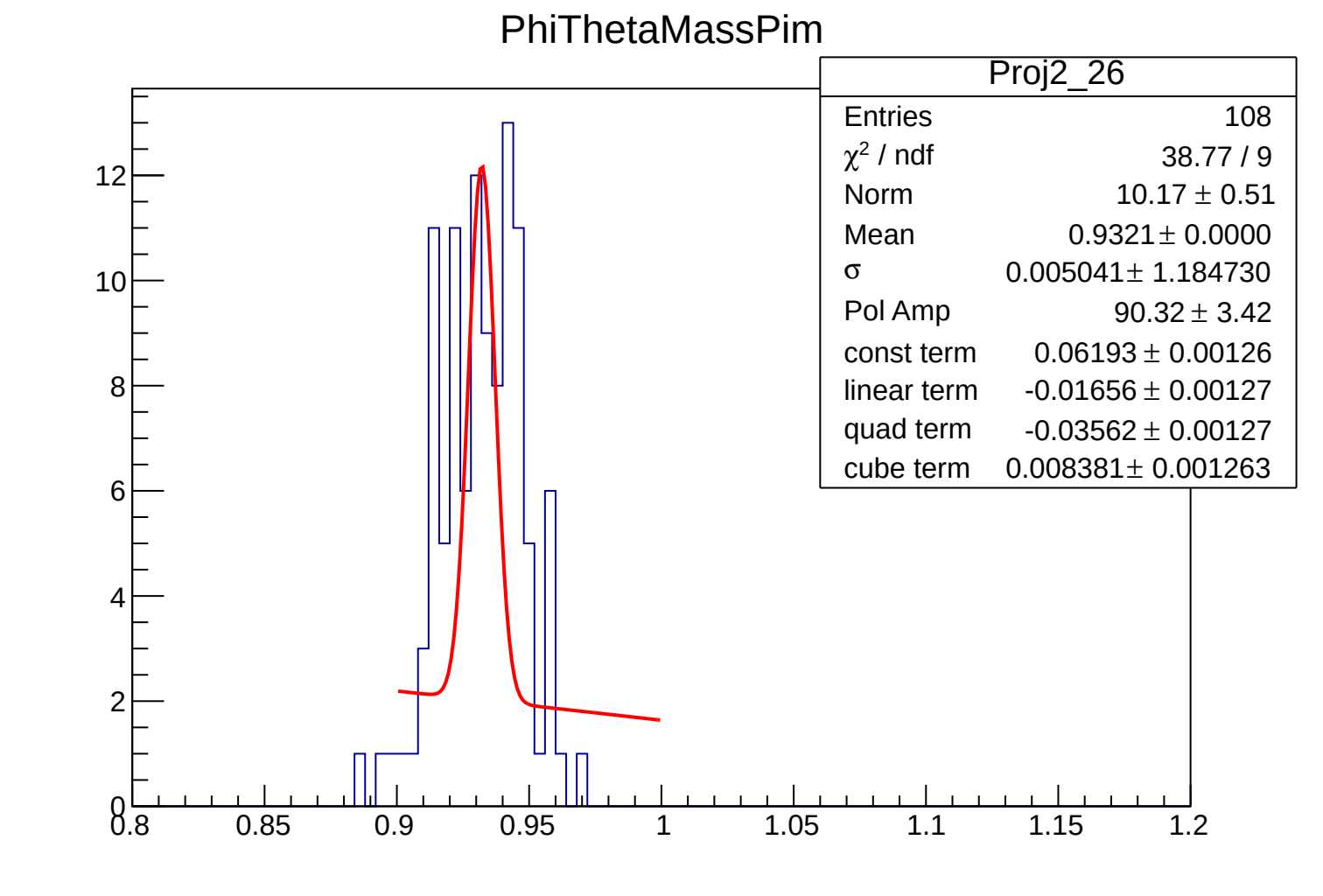

PhiThetaMassPim
Proj2_21
Entries 123
χ² / ndf 20.22 / 9
Norm 518.8 ± 19.7
Mean 0.936 ± 0.000
σ -0.0006884 ± 0.0000327
Pol Amp 457.6 ± 0.2
const term -3.007 ± 0.649
linear term 3.219 ± 0.690
quad term 3.333 ± 0.716
cube term -3.551± 0.760
0
2
4
6
8
10
12
14
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

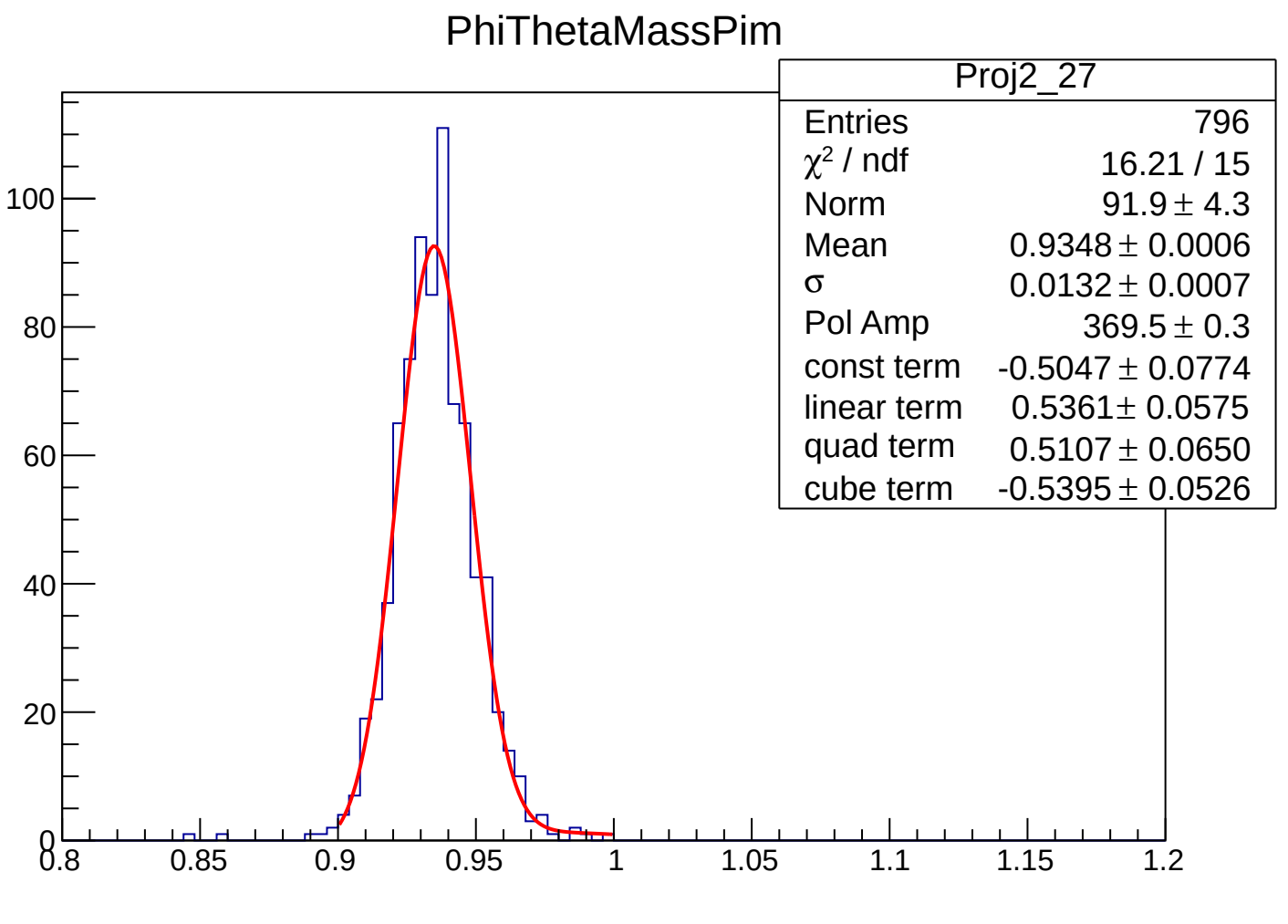

PhiThetaMassPim
Proj2_22
Entries 82
χ² / ndf 9.178 / 9
Norm 12.21 ± 1.90
Mean 0.9404 ± 0.0000
σ 0.006938 ± 0.000001
Pol Amp 354.1 ± 0.0
const term 0.03913 ± 0.00819
linear term -0.03916 ± 0.00297
quad term -0.03958 ± 0.00313
cube term 0.04309 ± 0.00970
0
2
4
6
8
10
12
14
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

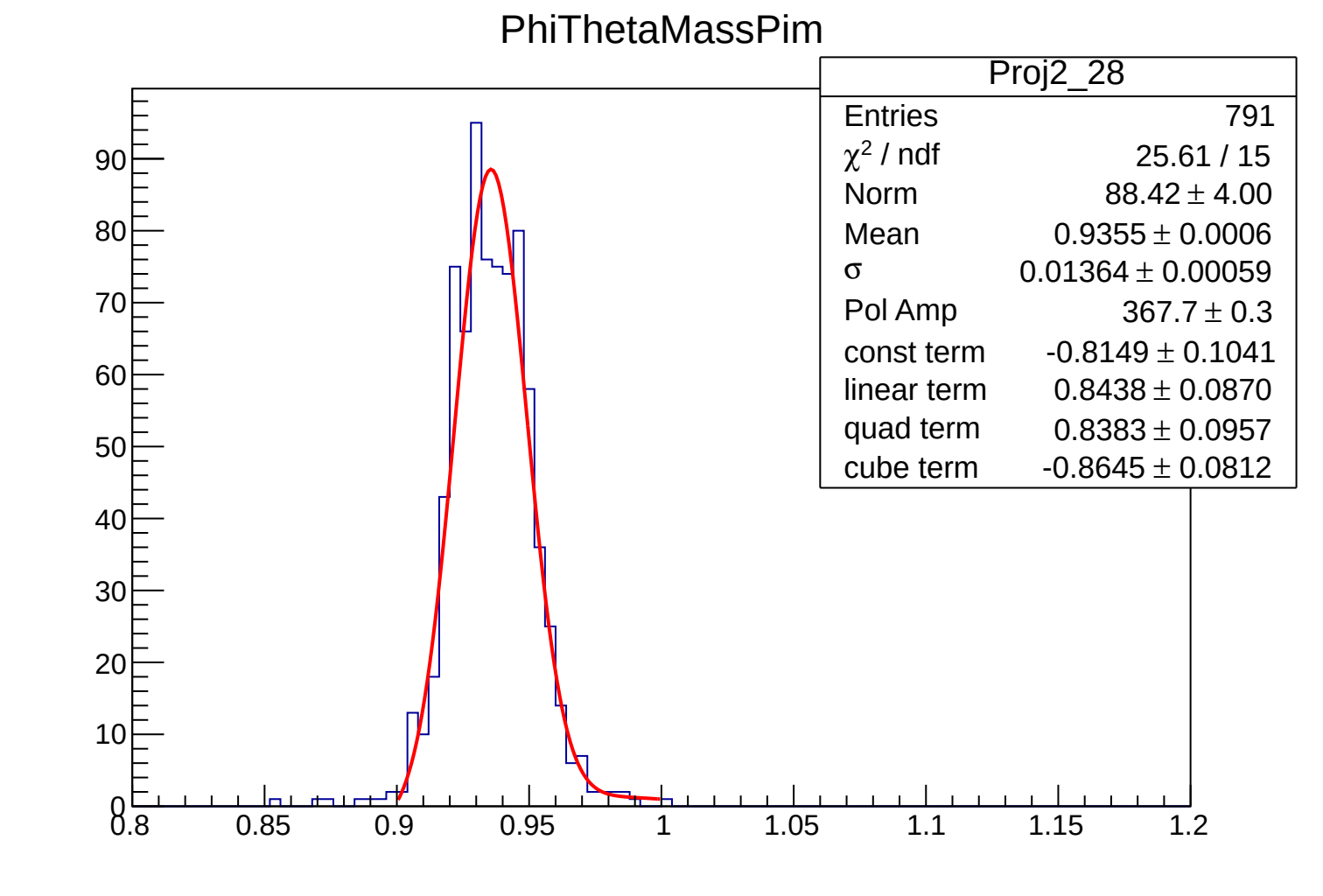

PhiThetaMassPim
Proj2_23
Entries 812
χ² / ndf 20.9 / 14
Norm 93.92 ± 4.10
Mean 0.9404 ± 0.0006
σ 0.01342 ± 0.00052
Pol Amp 369 ± 0.3
const term -0.654 ± 0.072
linear term 0.6887 ± 0.0673
quad term 0.695 ± 0.071
cube term -0.731 ± 0.070
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

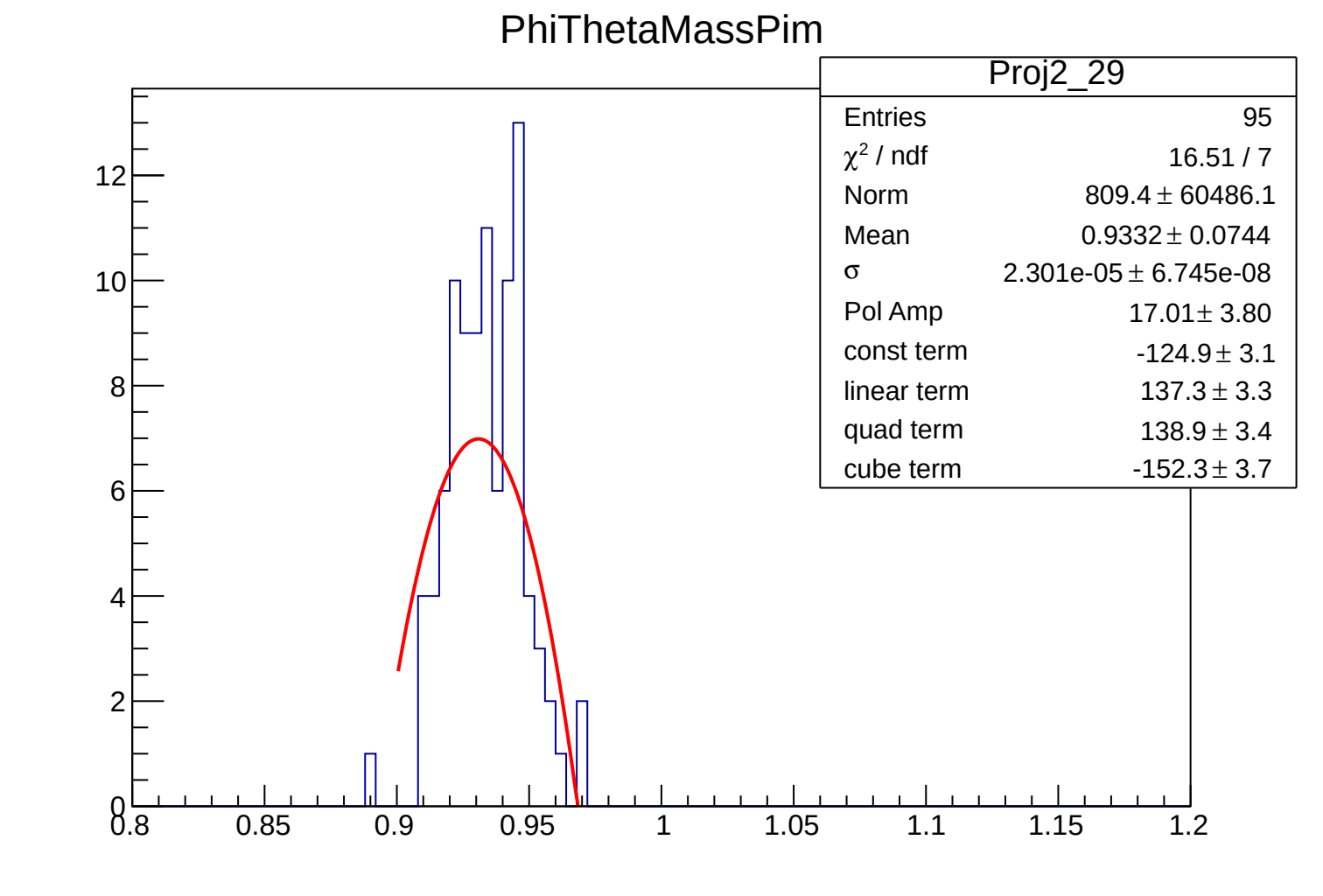

PhiThetaMassPim
Proj2_24
Entries 899
χ² / ndf 18.41 / 14
Norm 106.1 ± 4.7
Mean 0.9358 ± 0.0005
σ 0.01256 ± 0.00045
Pol Amp 306.5 ± 653.8
const term -0.6631 ± 0.0214
linear term 0.7121 ± 0.0236
quad term 0.704 ± 0.025
cube term -0.7479 ± 0.0259
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

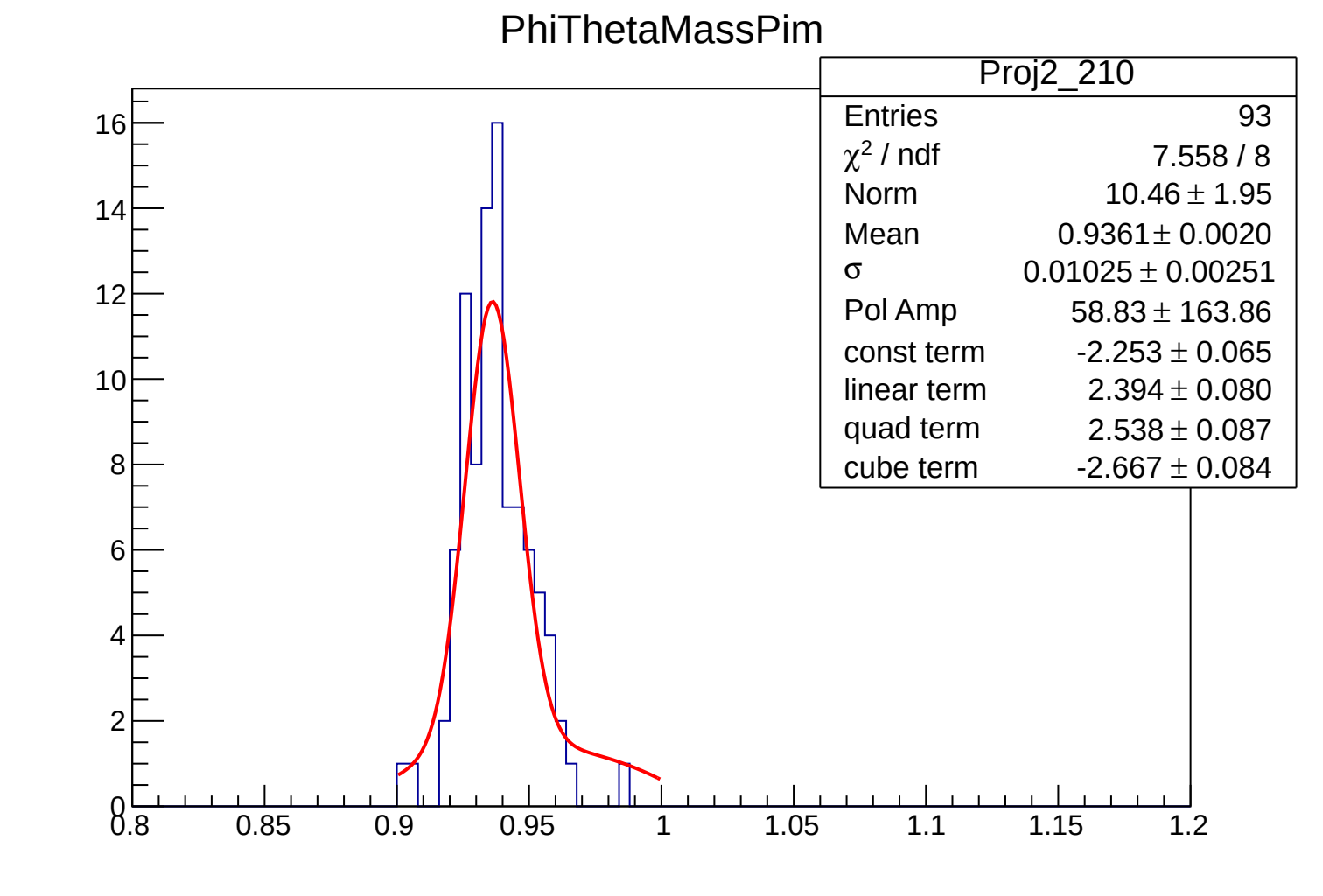

PhiThetaMassPim
Proj2_25
Entries 76
χ² / ndf 36.65 / 8
Norm 3051 ± 10312.8
Mean 0.9352 ± 0.0131
σ -0.0001305 ± 0.0001976
Pol Amp 67.89 ± 13.94
const term 0.05348 ± 0.00581
linear term -0.01762 ± 0.00608
quad term -0.02809 ± 0.00648
cube term 0.0268 ± 0.0071
0
2
4
6
8
10
12
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

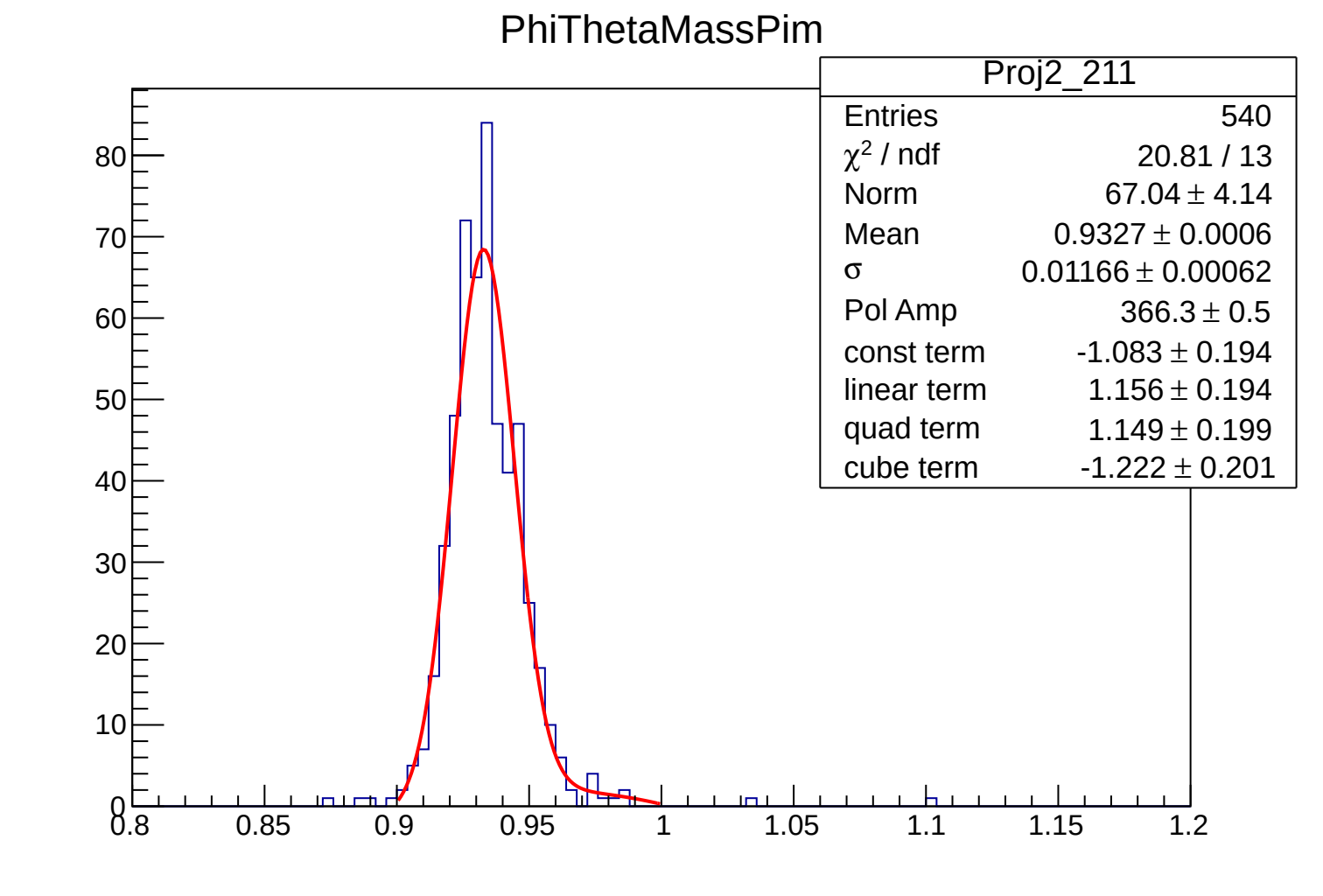

PhiThetaMassPim
Proj2_26
Entries 108
χ² / ndf 38.77 / 9
Norm 10.17 ± 0.51
Mean 0.9321 ± 0.0000
σ 0.005041 ± 1.184730
Pol Amp 90.32 ± 3.42
const term 0.06193 ± 0.00126
linear term -0.01656 ± 0.00127
quad term -0.03562 ± 0.00127
cube term 0.008381 ± 0.001263
0
2
4
6
8
10
12
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

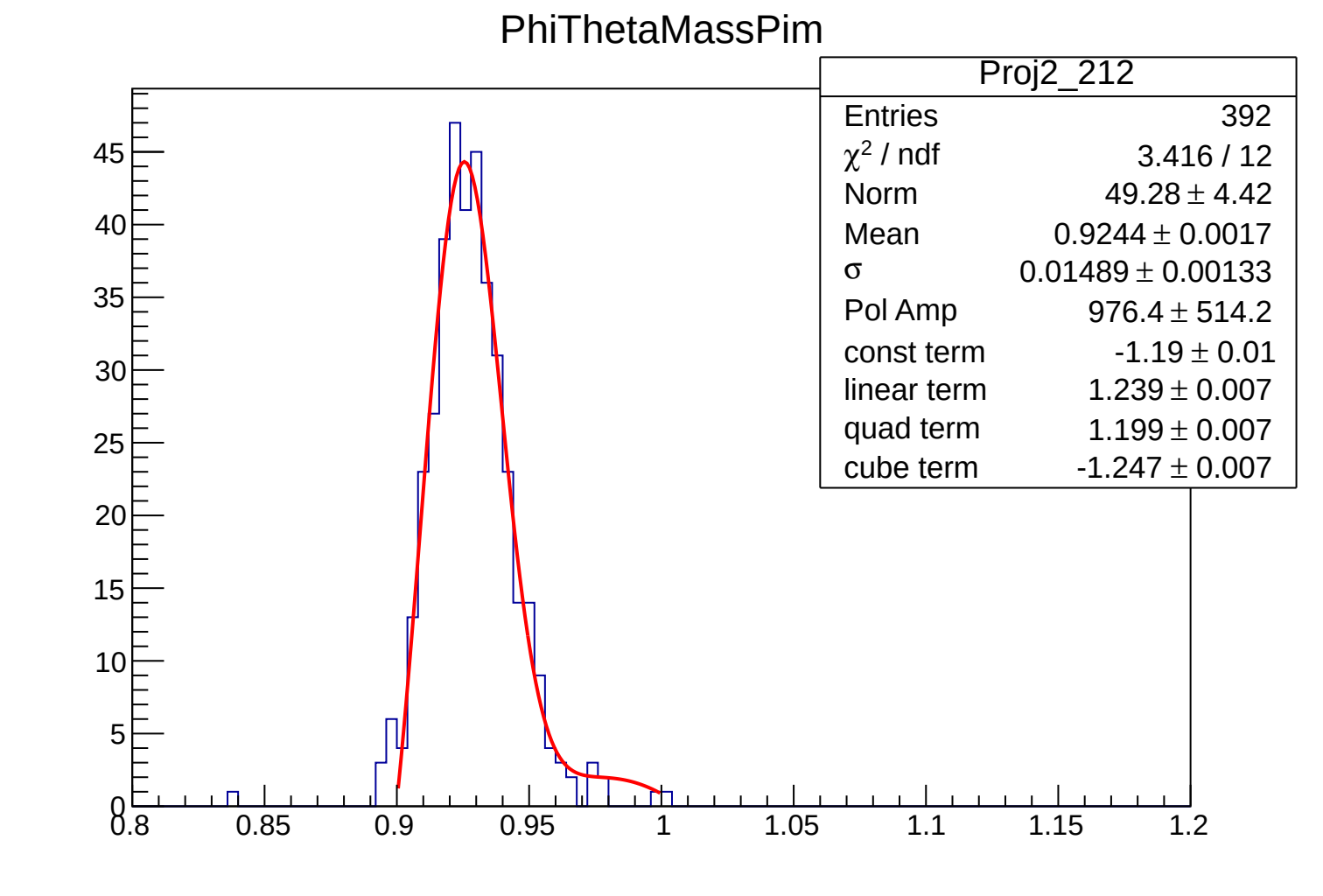

PhiThetaMassPim
Proj2_27
Entries 796
χ² / ndf 16.21 / 15
Norm 91.9 ± 4.3
Mean 0.9348 ± 0.0006
σ 0.0132 ± 0.0007
Pol Amp 369.5 ± 0.3
const term -0.5047 ± 0.0774
linear term 0.5361 ± 0.0575
quad term 0.5107 ± 0.0650
cube term -0.5395 ± 0.0526
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

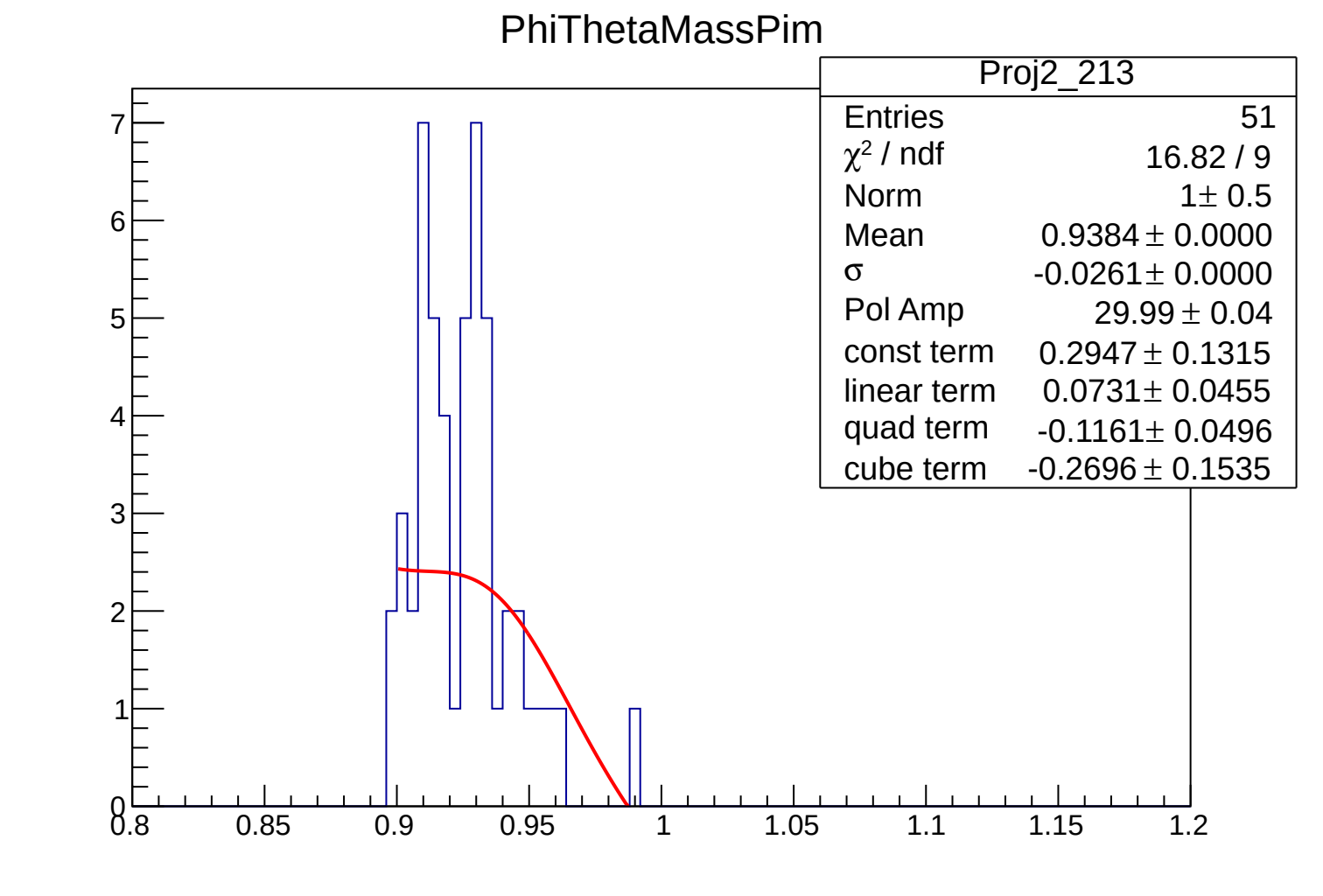

PhiThetaMassPim
Proj2_28
Entries 791
χ² / ndf 25.61 / 15
Norm 88.42 ± 4.00
Mean 0.9355 ± 0.0006
σ 0.01364 ± 0.00059
Pol Amp 367.7 ± 0.3
const term -0.8149 ± 0.1041
linear term 0.8438 ± 0.0870
quad term 0.8383 ± 0.0957
cube term -0.8645 ± 0.0812
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

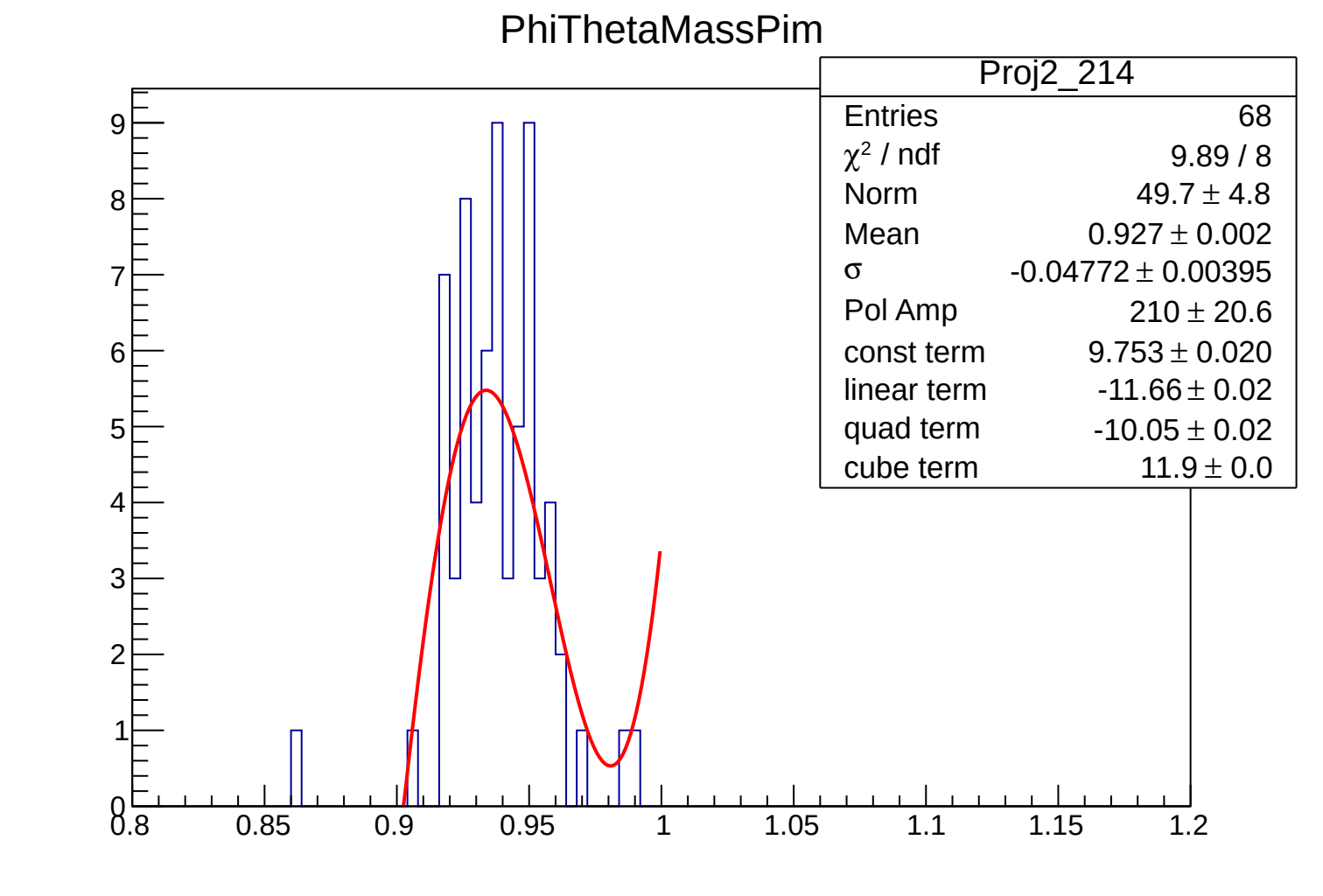

PhiThetaMassPim
Proj2_29
Entries 95
χ² / ndf 16.51 / 7
Norm 809.4 ± 60486.1
Mean 0.9332 ± 0.0744
σ 2.301e-05 ± 6.745e-08
Pol Amp 17.01 ± 3.80
const term -124.9 ± 3.1
linear term 137.3 ± 3.3
quad term 138.9 ± 3.4
cube term -152.3 ± 3.7
0
2
4
6
8
10
12
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

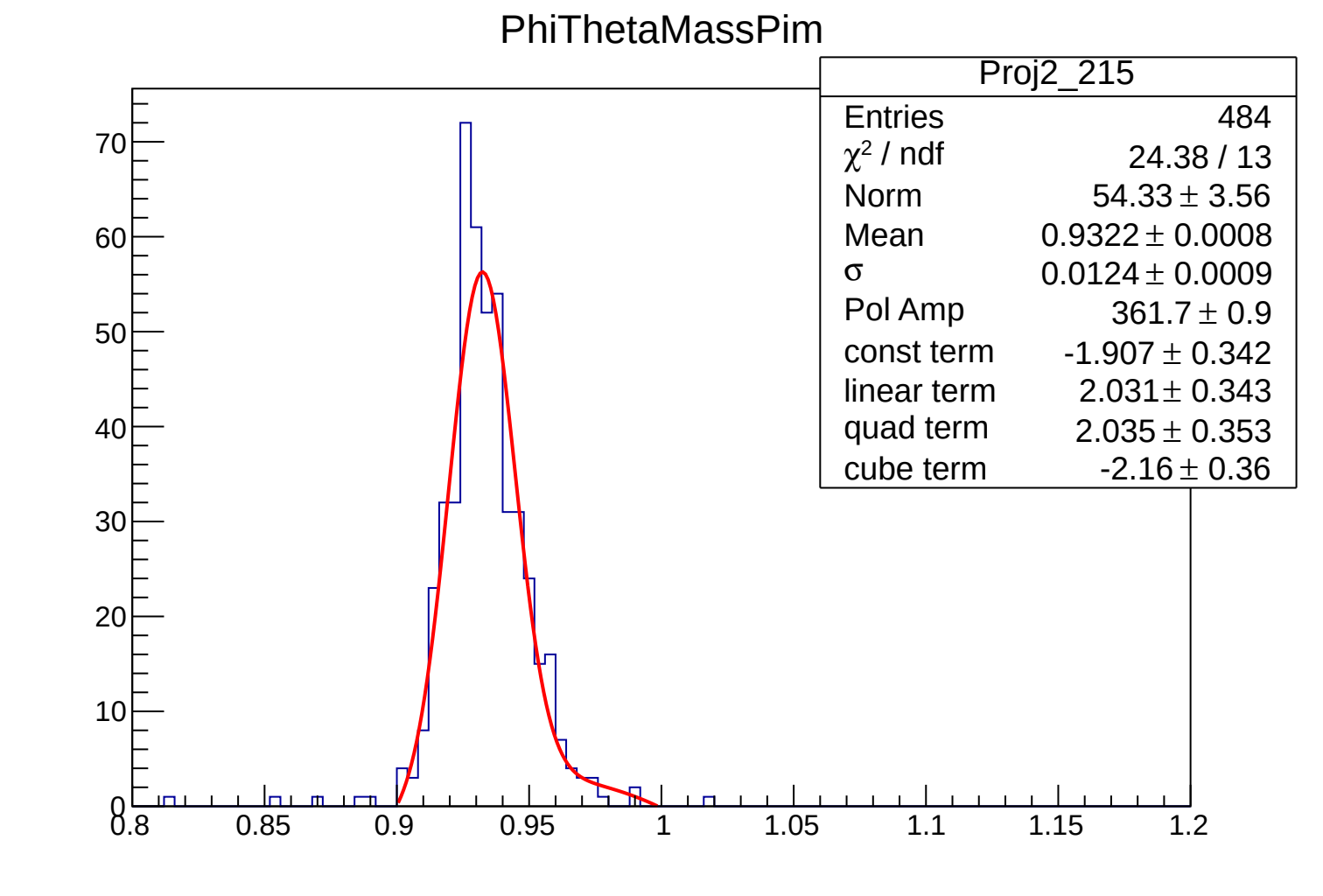

PhiThetaMassPim
Proj2_210
Entries 93
χ² / ndf 7.558 / 8
Norm 10.46 ± 1.95
Mean 0.9361 ± 0.0020
σ 0.01025 ± 0.00251
Pol Amp 58.83 ± 163.86
const term -2.253 ± 0.065
linear term 2.394 ± 0.080
quad term 2.538 ± 0.087
cube term -2.667 ± 0.084
0
2
4
6
8
10
12
14
16
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

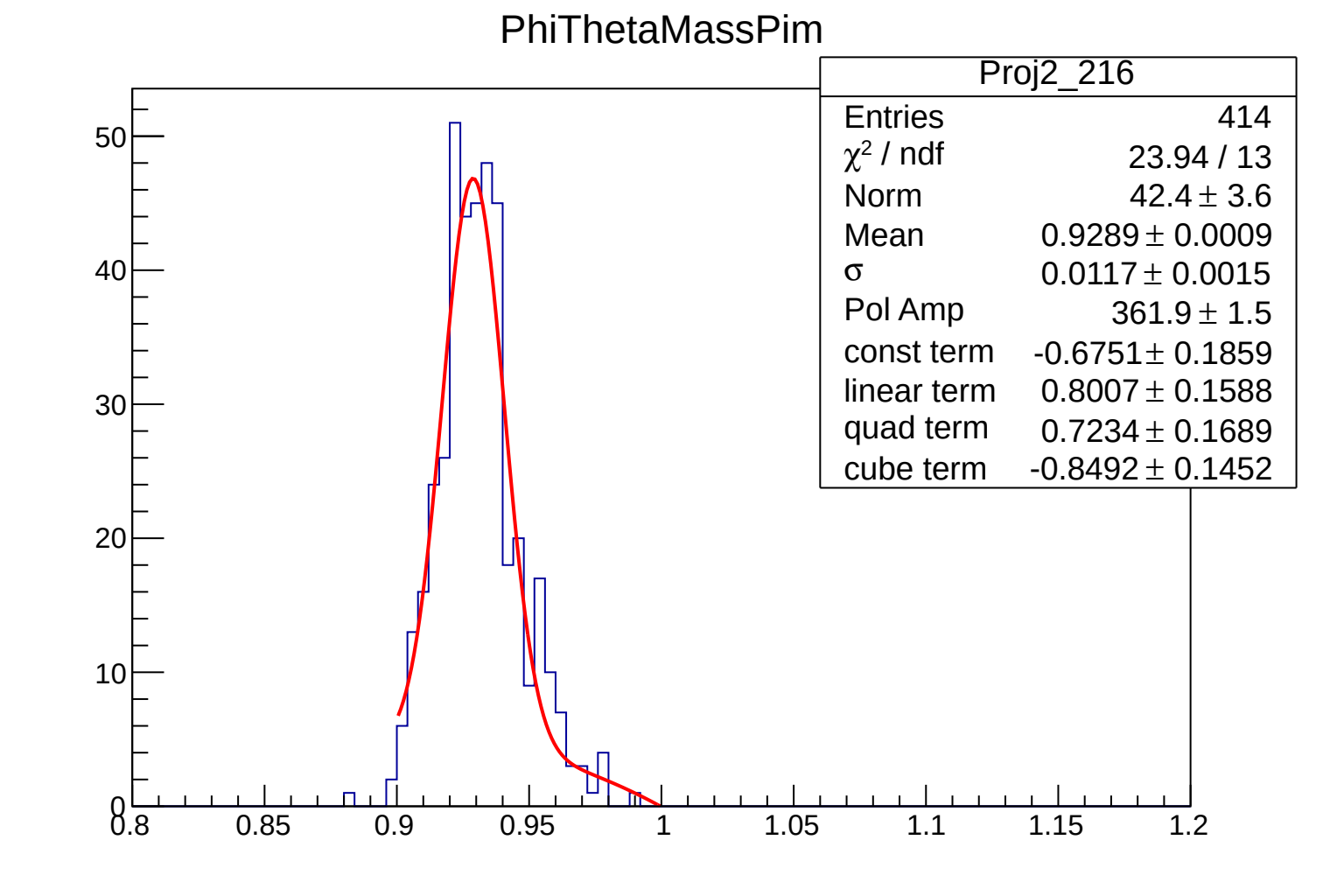

PhiThetaMassPim
Proj2_211
Entries 540
χ² / ndf 20.81 / 13
Norm 67.04 ± 4.14
Mean 0.9327 ± 0.0006
σ 0.01166 ± 0.00062
Pol Amp 366.3 ± 0.5
const term -1.083 ± 0.194
linear term 1.156 ± 0.194
quad term 1.149 ± 0.199
cube term -1.222 ± 0.201
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

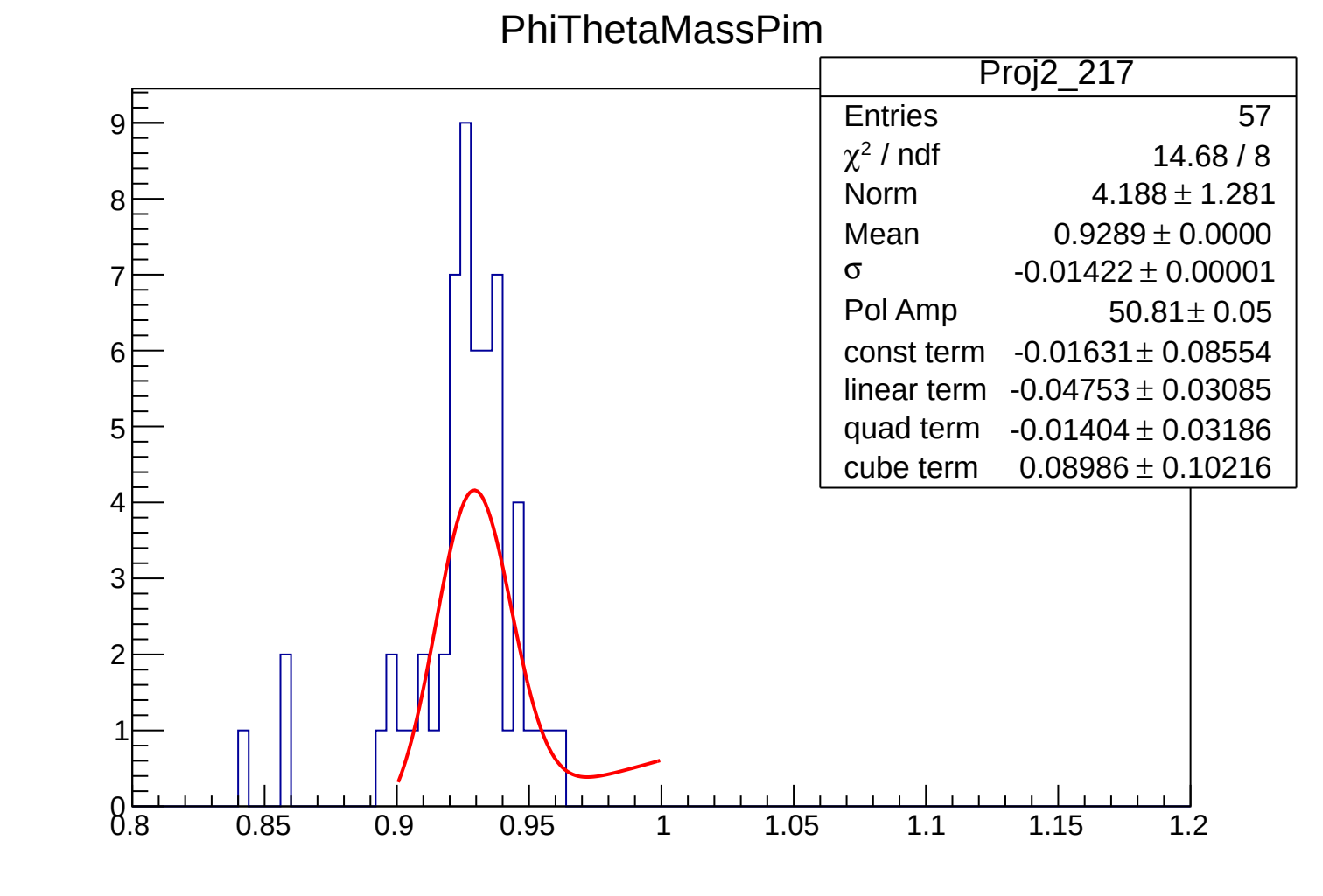

PhiThetaMassPim
Proj2_212
Entries 392
χ² / ndf 3.416 / 12
Norm 49.28 ± 4.42
Mean 0.9244 ± 0.0017
σ 0.01489 ± 0.00133
Pol Amp 976.4 ± 514.2
const term -1.19 ± 0.01
linear term 1.239 ± 0.007
quad term 1.199 ± 0.007
cube term -1.247 ± 0.007
0 5 10 15 20 25 30 35 40 45
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

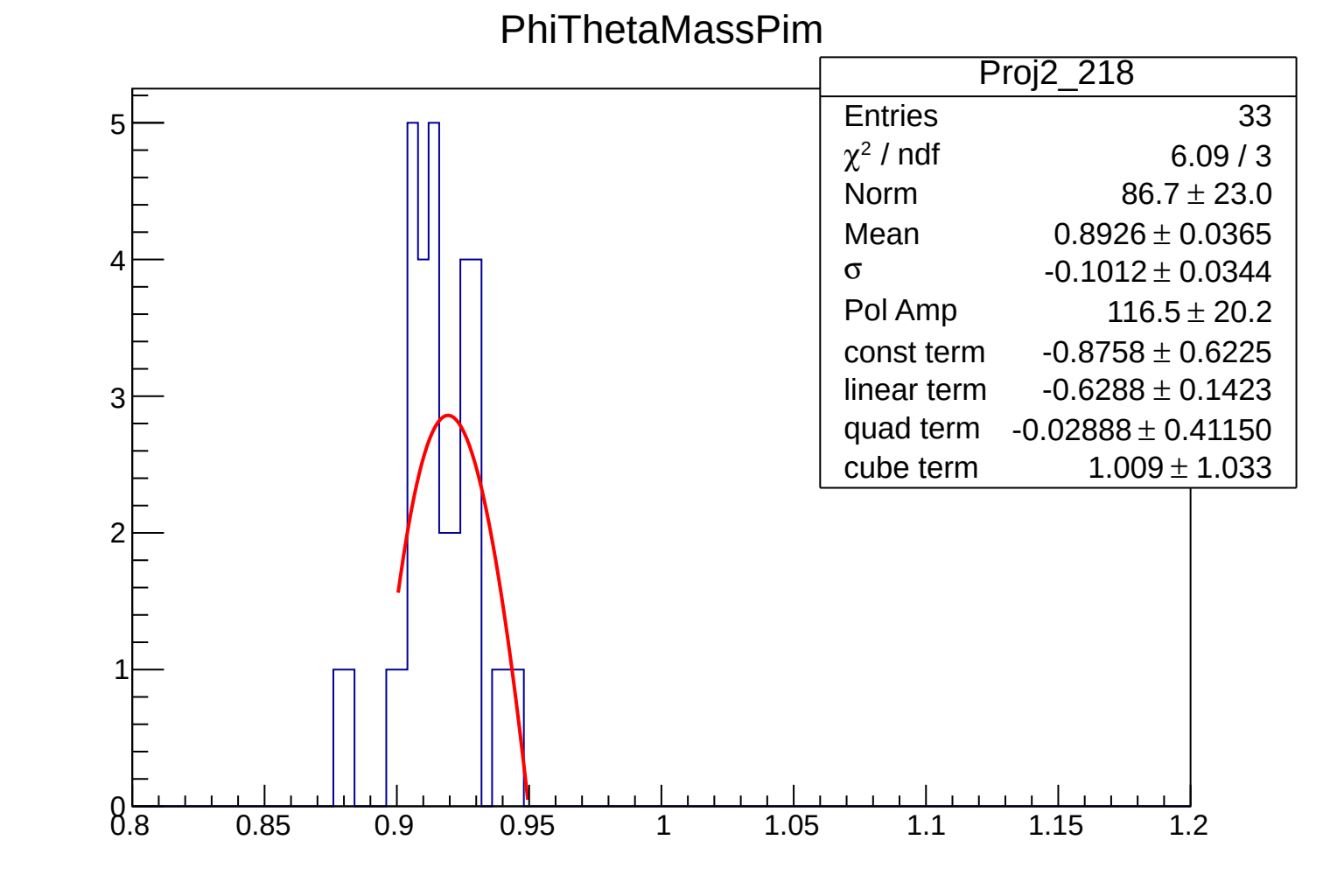

PhiThetaMassPim
Proj2_213
Entries 51
χ² / ndf 16.82 / 9
Norm 1± 0.5
Mean 0.9384 ± 0.0000
σ -0.0261± 0.0000
Pol Amp 29.99 ± 0.04
const term 0.2947 ± 0.1315
linear term 0.0731± 0.0455
quad term -0.1161± 0.0496
cube term -0.2696 ± 0.1535
0
1
2
3
4
5
6
7
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

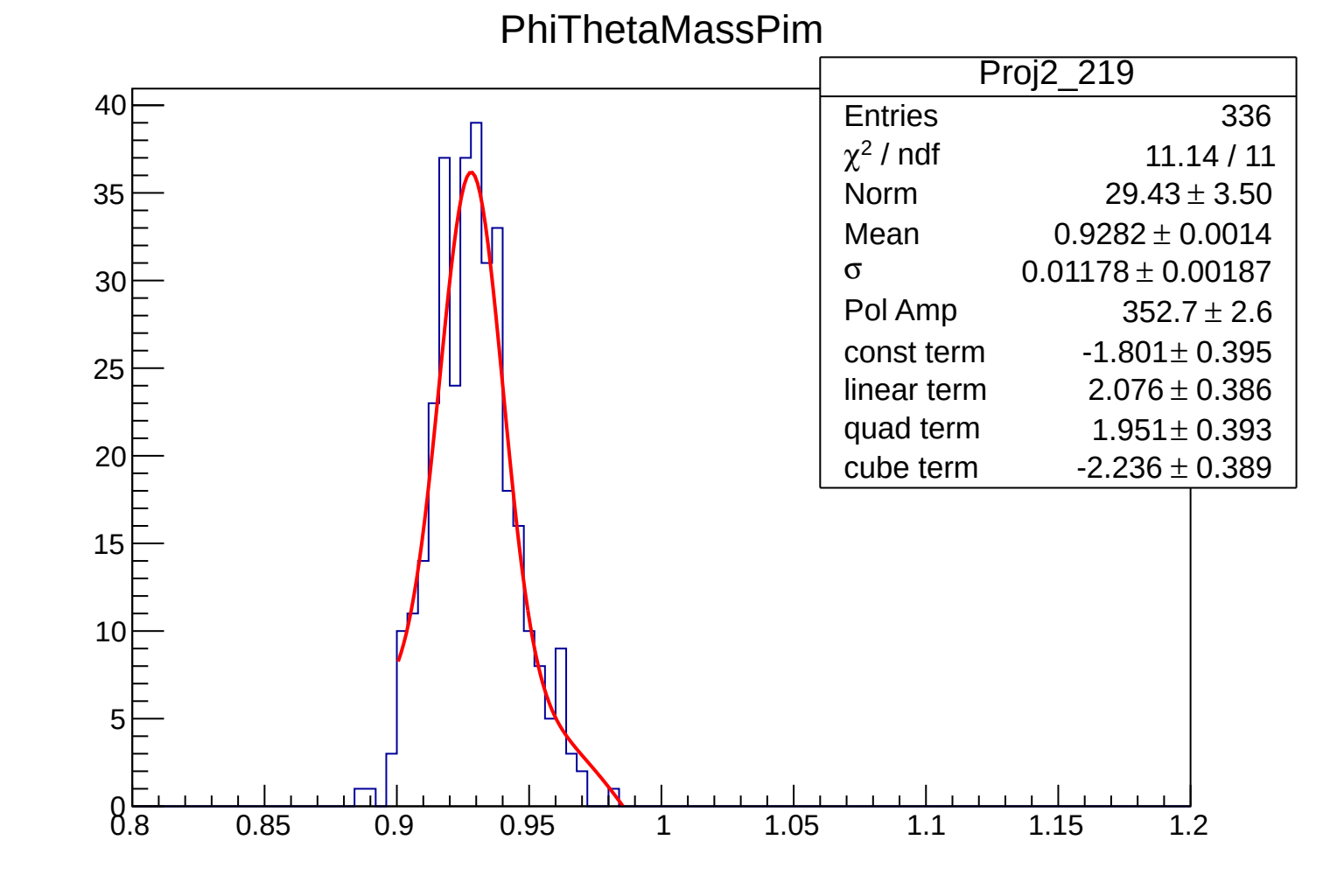

PhiThetaMassPim
Proj2_214
Entries 68
χ² / ndf 9.89 / 8
Norm 49.7 ± 4.8
Mean 0.927 ± 0.002
σ -0.04772 ± 0.00395
Pol Amp 210 ± 20.6
const term 9.753 ± 0.020
linear term -11.66 ± 0.02
quad term -10.05 ± 0.02
cube term 11.9 ± 0.0
0
1
2
3
4
5
6
7
8
9
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

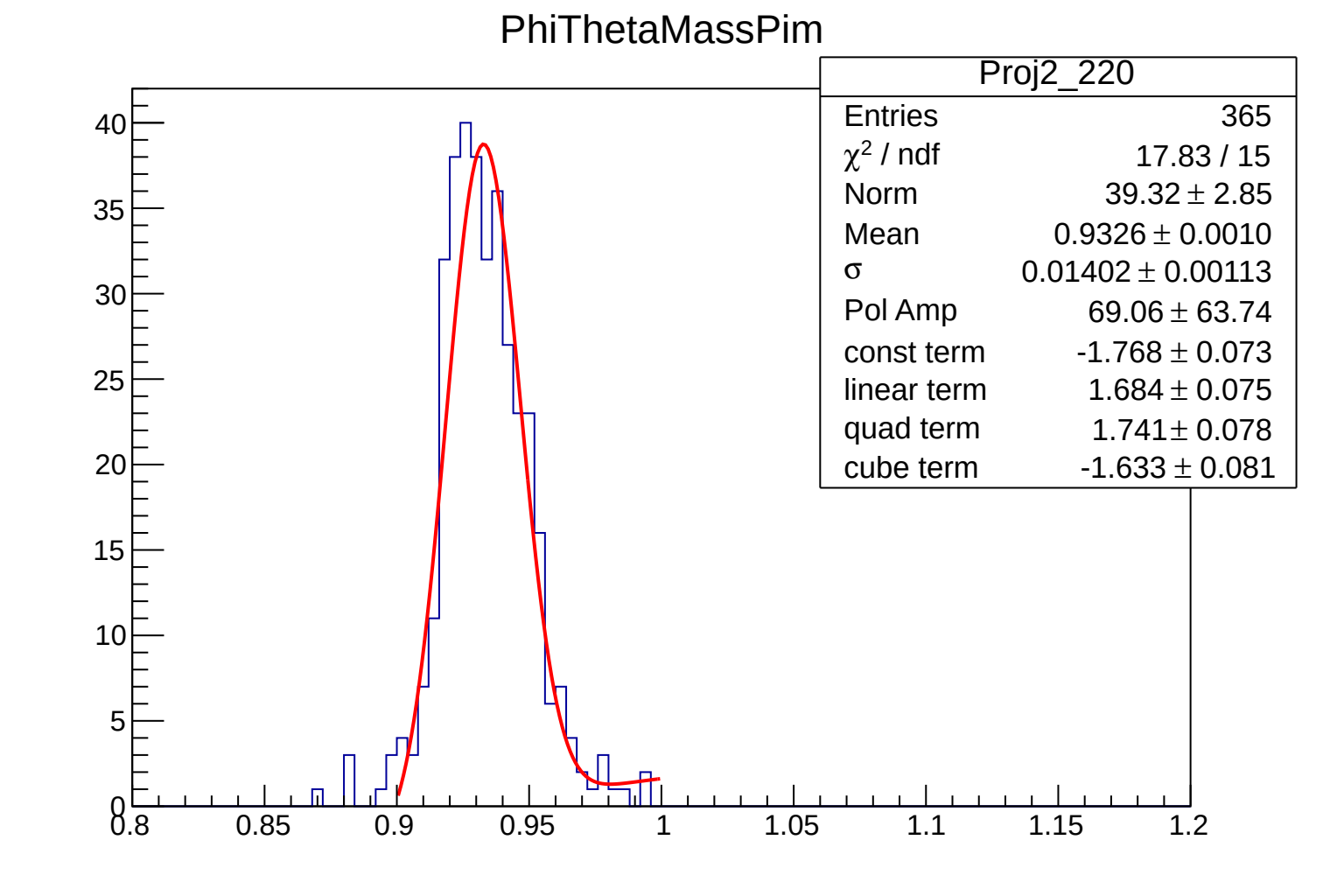

PhiThetaMassPim
Proj2_215
Entries 484
χ² / ndf 24.38 / 13
Norm 54.33 ± 3.56
Mean 0.9322 ± 0.0008
σ 0.0124 ± 0.0009
Pol Amp 361.7 ± 0.9
const term -1.907 ± 0.342
linear term 2.031 ± 0.343
quad term 2.035 ± 0.353
cube term -2.16 ± 0.36
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

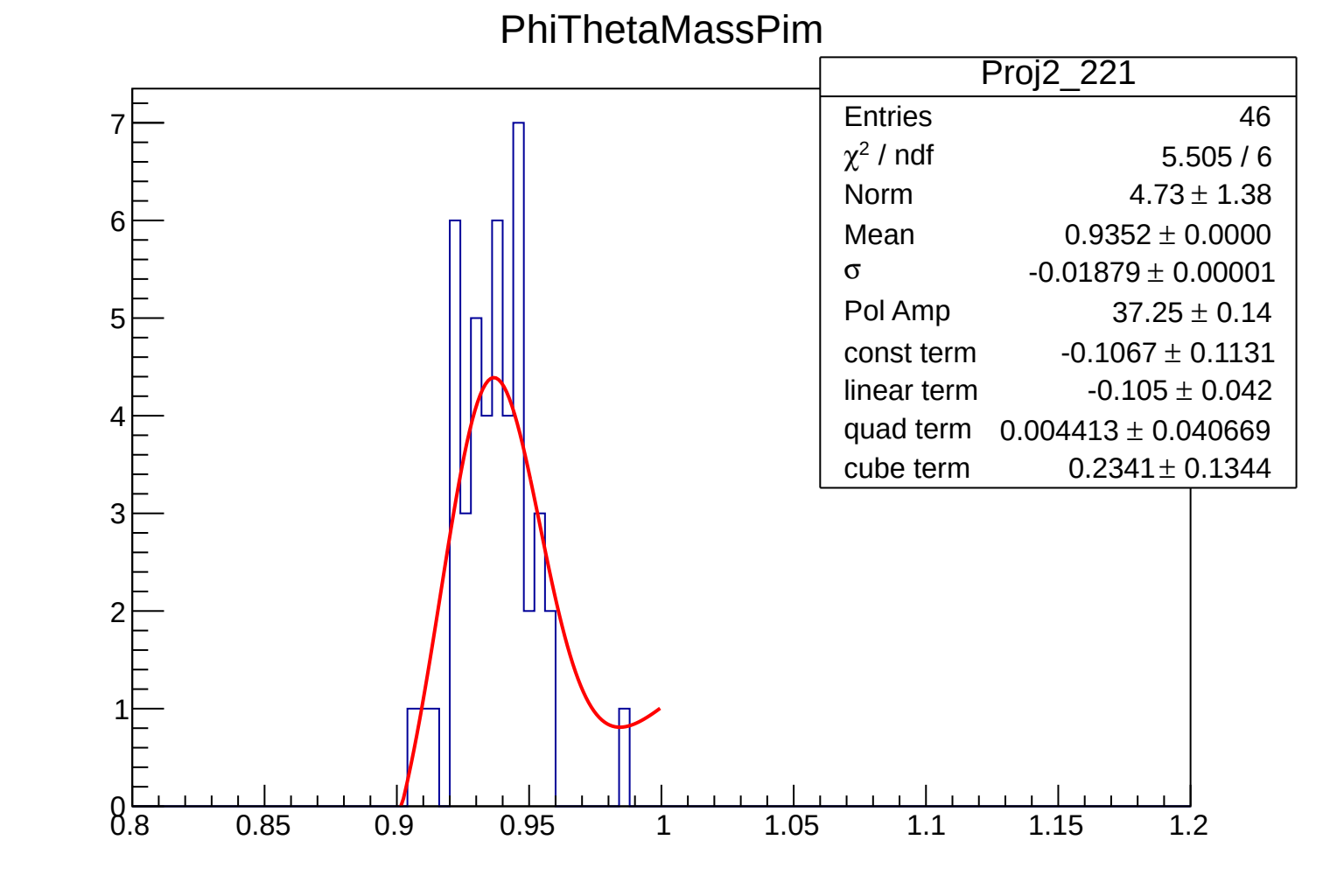

PhiThetaMassPim
Proj2_216
Entries 414
χ² / ndf 23.94 / 13
Norm 42.4 ± 3.6
Mean 0.9289 ± 0.0009
σ 0.0117 ± 0.0015
Pol Amp 361.9 ± 1.5
const term -0.6751 ± 0.1859
linear term 0.8007 ± 0.1588
quad term 0.7234 ± 0.1689
cube term -0.8492 ± 0.1452
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

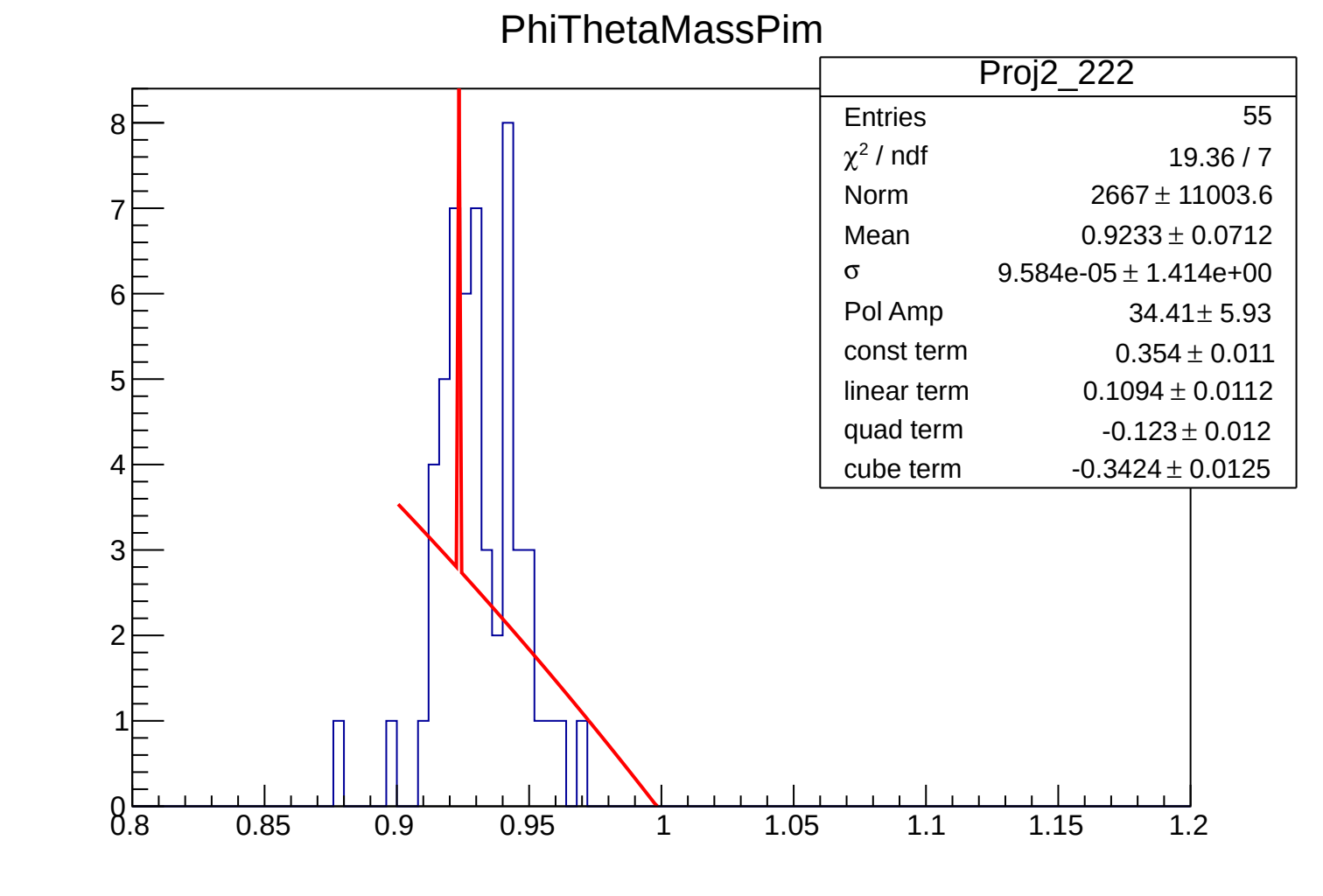

PhiThetaMassPim
Proj2_217
Entries 57
χ² / ndf 14.68 / 8
Norm 4.188 ± 1.281
Mean 0.9289 ± 0.0000
σ -0.01422 ± 0.00001
Pol Amp 50.81 ± 0.05
const term -0.01631 ± 0.08554
linear term -0.04753 ± 0.03085
quad term -0.01404 ± 0.03186
cube term 0.08986 ± 0.10216
0
1
2
3
4
5
6
7
8
9
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

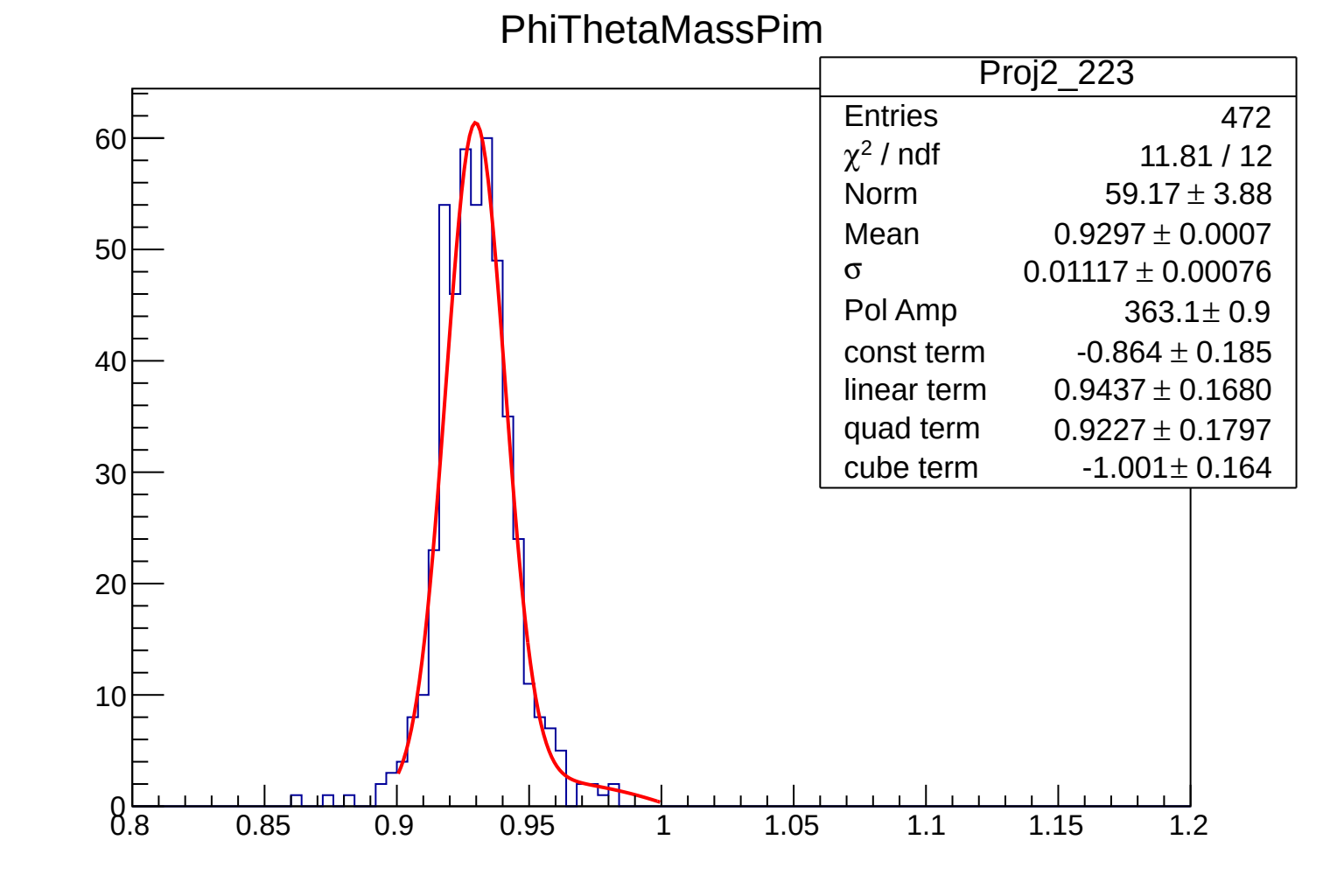

PhiThetaMassPim
Proj2_218
Entries 33
χ² / ndf 6.09 / 3
Norm 86.7 ± 23.0
Mean 0.8926 ± 0.0365
σ -0.1012 ± 0.0344
Pol Amp 116.5 ± 20.2
const term -0.8758 ± 0.6225
linear term -0.6288 ± 0.1423
quad term -0.02888 ± 0.41150
cube term 1.009 ± 1.033
0
1
2
3
4
5
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

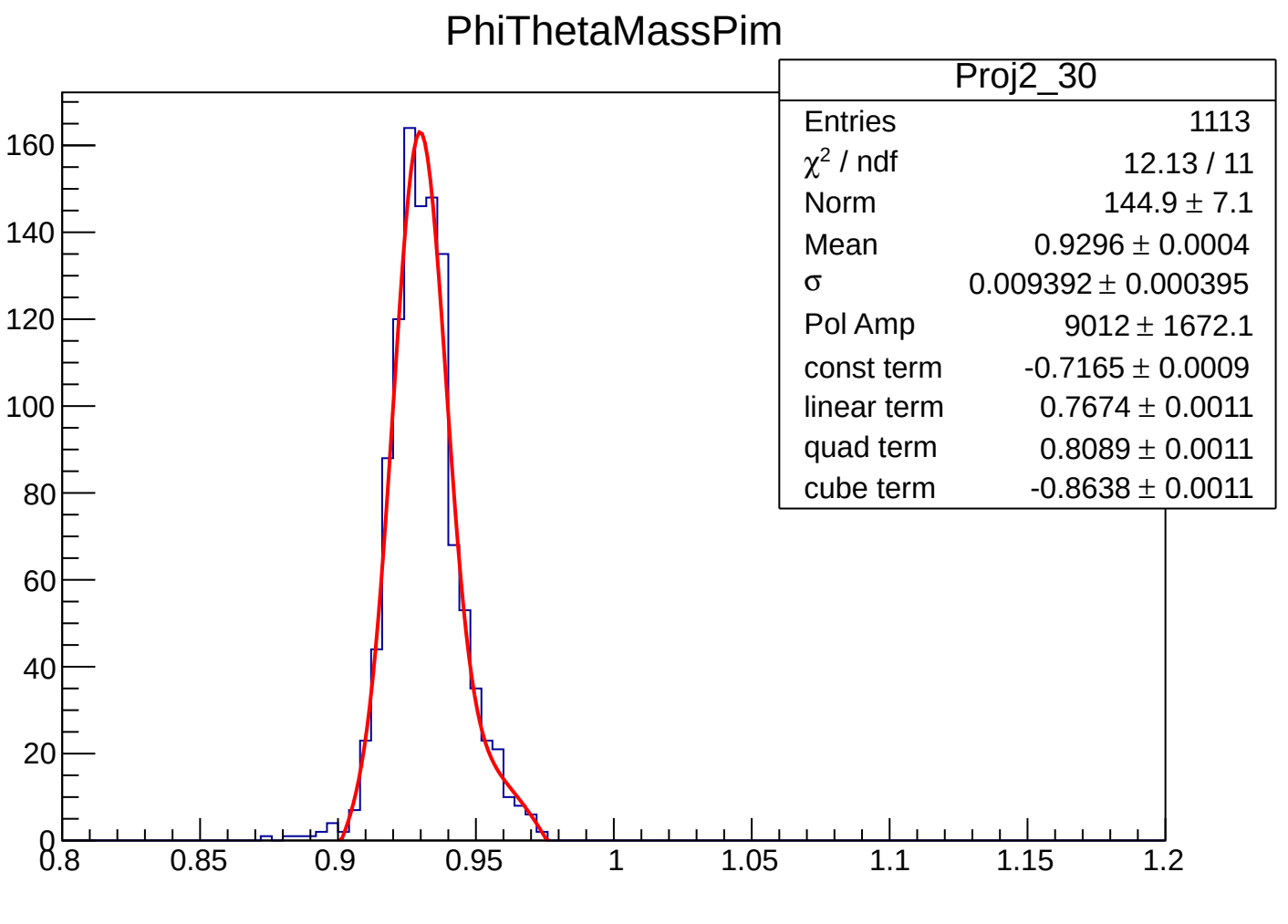

PhiThetaMassPim
Proj2_219
Entries 336
χ² / ndf 11.14 / 11
Norm 29.43 ± 3.50
Mean 0.9282 ± 0.0014
σ 0.01178 ± 0.00187
Pol Amp 352.7 ± 2.6
const term -1.801 ± 0.395
linear term 2.076 ± 0.386
quad term 1.951 ± 0.393
cube term -2.236 ± 0.389
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

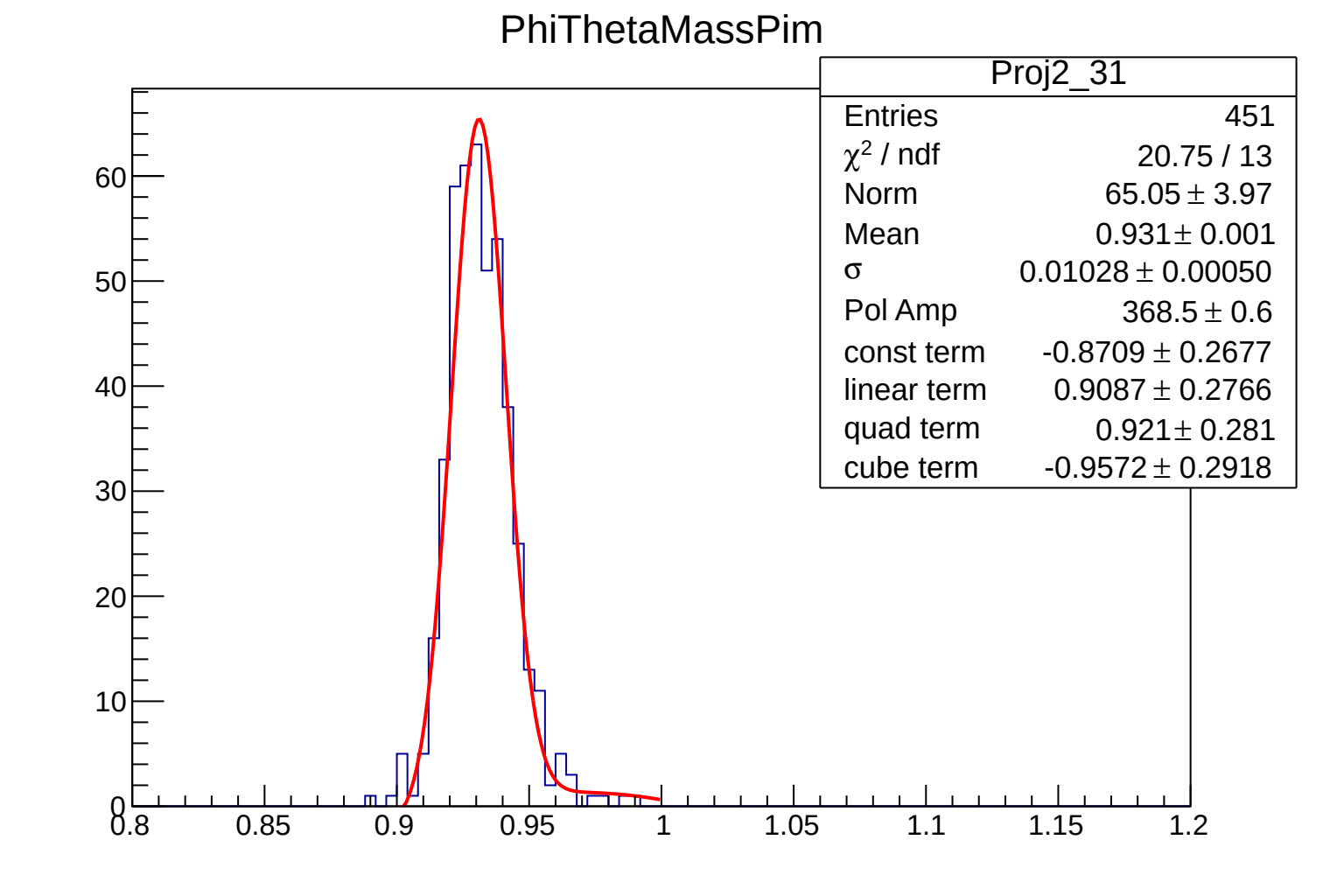

PhiThetaMassPim
Proj2_220
Entries 365
χ² / ndf 17.83 / 15
Norm 39.32 ± 2.85
Mean 0.9326 ± 0.0010
σ 0.01402 ± 0.00113
Pol Amp 69.06 ± 63.74
const term -1.768 ± 0.073
linear term 1.684 ± 0.075
quad term 1.741 ± 0.078
cube term -1.633 ± 0.081
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

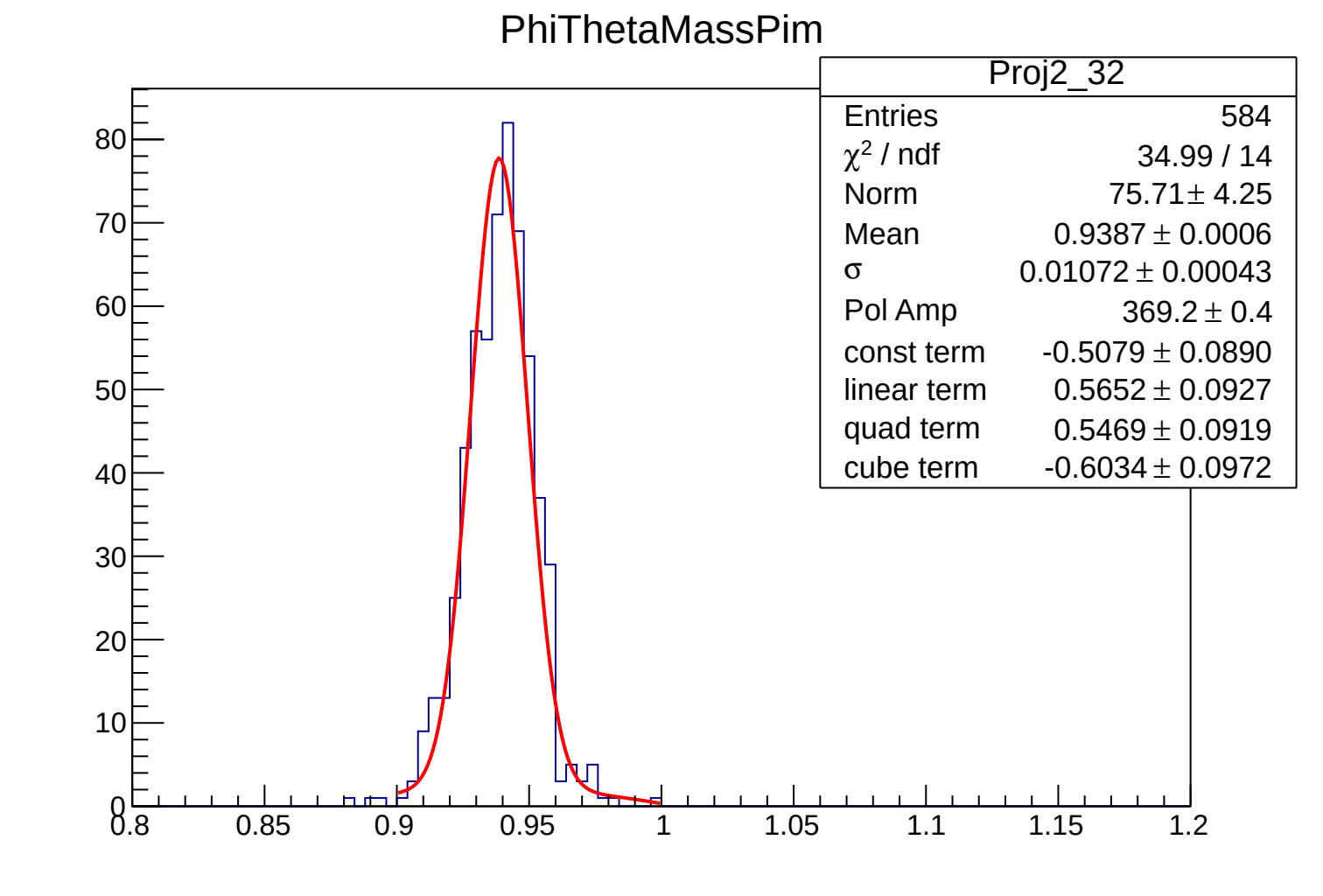

PhiThetaMassPim
Proj2_221
Entries 46
χ² / ndf 5.505 / 6
Norm 4.73 ± 1.38
Mean 0.9352 ± 0.0000
σ -0.01879 ± 0.00001
Pol Amp 37.25 ± 0.14
const term -0.1067 ± 0.1131
linear term -0.105 ± 0.042
quad term 0.004413 ± 0.040669
cube term 0.2341 ± 0.1344
0
1
2
3
4
5
6
7
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

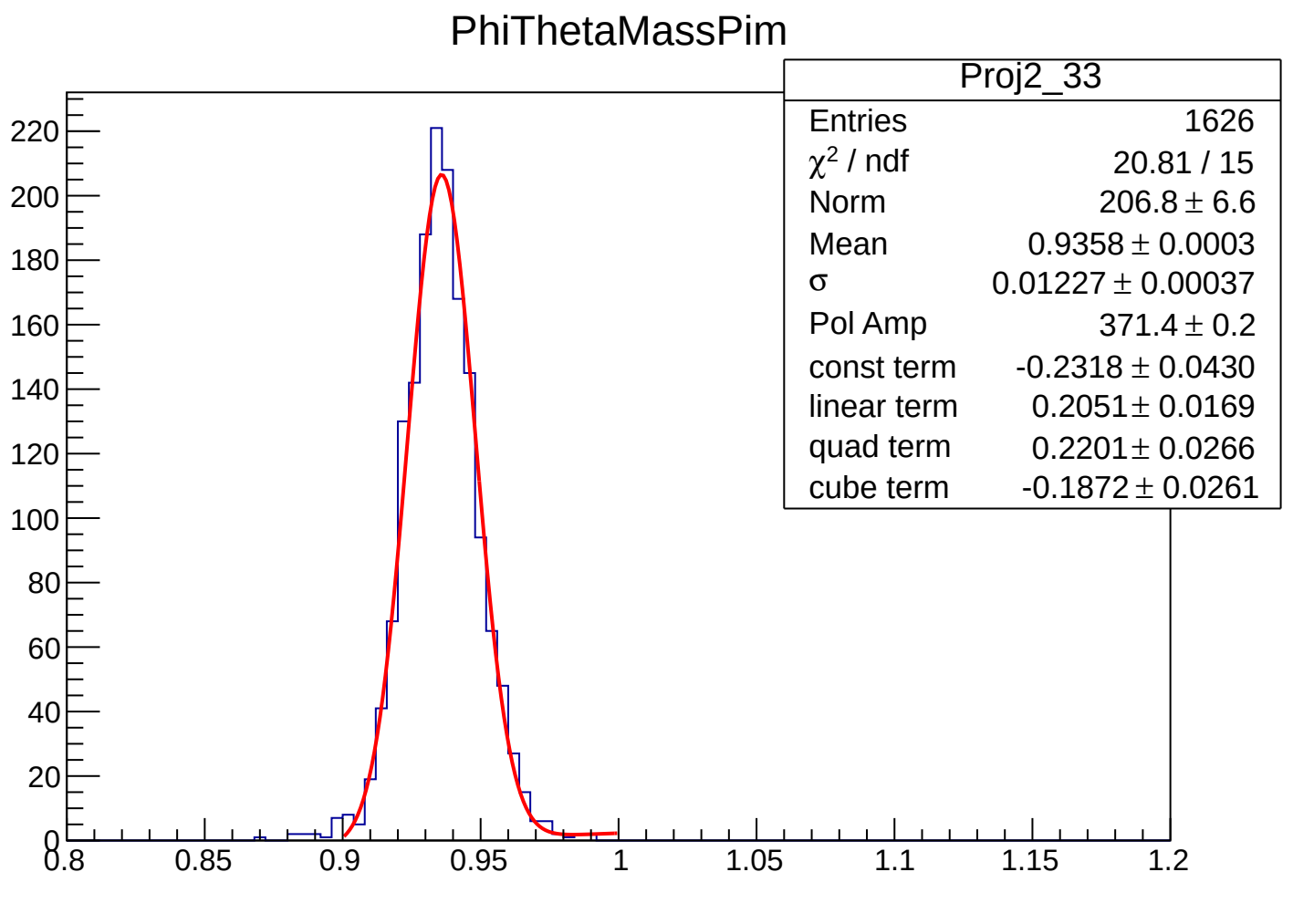

PhiThetaMassPim
Proj2_222
Entries 55
χ² / ndf 19.36 / 7
Norm 2667 ± 11003.6
Mean 0.9233 ± 0.0712
σ 9.584e-05 ± 1.414e+00
Pol Amp 34.41 ± 5.93
const term 0.354 ± 0.011
linear term 0.1094 ± 0.0112
quad term -0.123 ± 0.012
cube term -0.3424 ± 0.0125
0
1
2
3
4
5
6
7
8
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

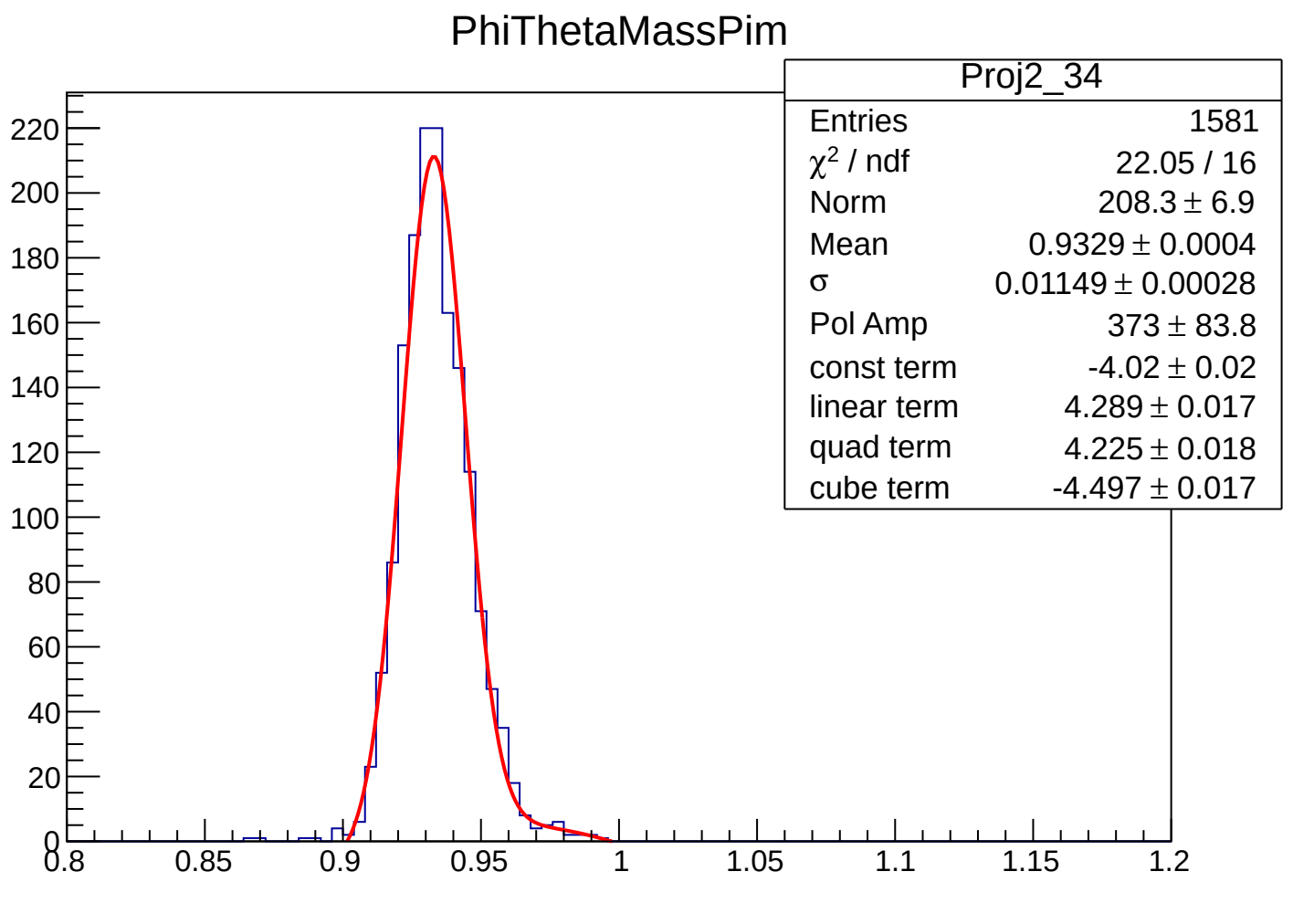

PhiThetaMassPim
Proj2_223
Entries 472
χ² / ndf 11.81 / 12
Norm 59.17 ± 3.88
Mean 0.9297 ± 0.0007
σ 0.01117 ± 0.00076
Pol Amp 363.1 ± 0.9
const term -0.864 ± 0.185
linear term 0.9437 ± 0.1680
quad term 0.9227 ± 0.1797
cube term -1.001 ± 0.164
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

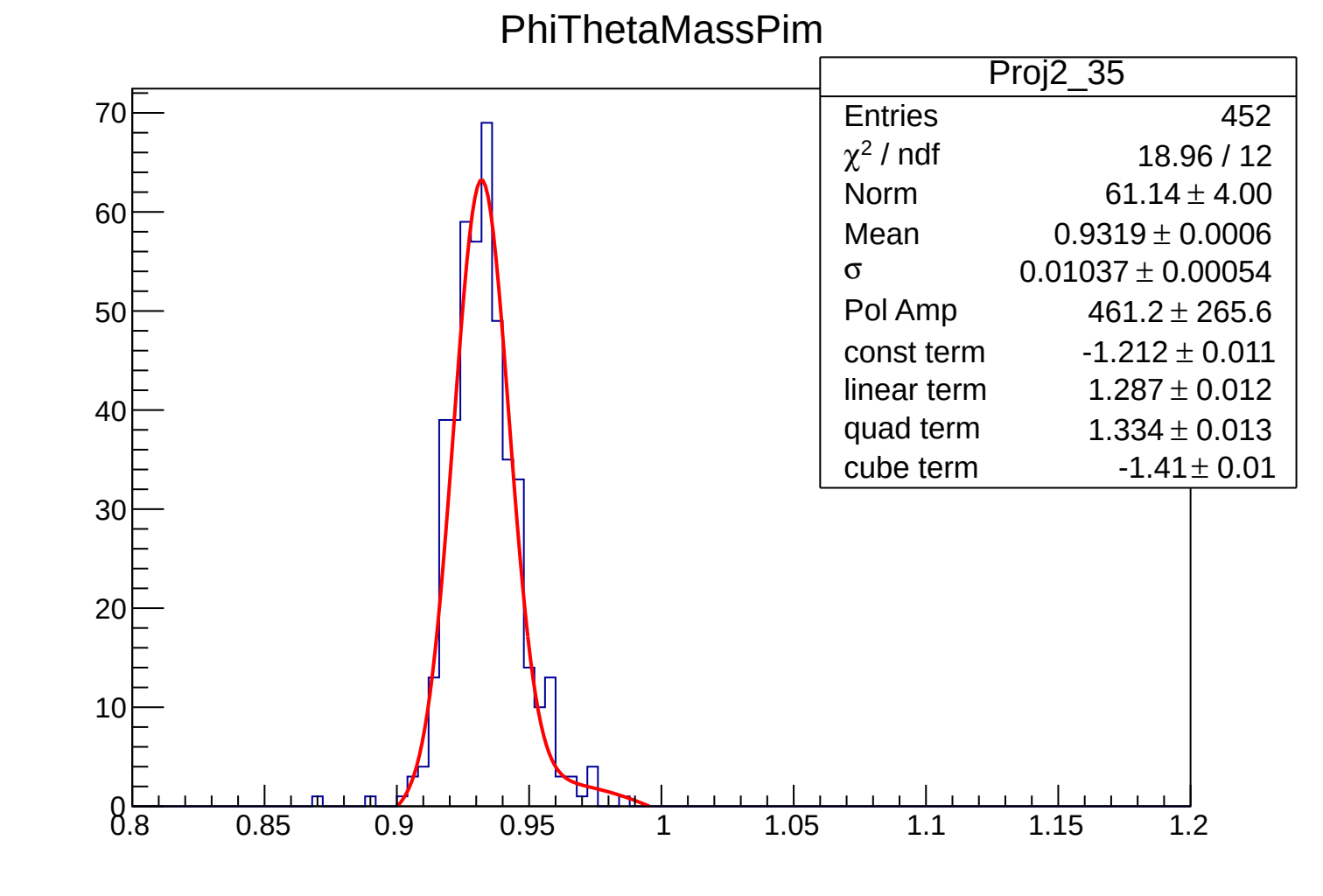

PhiThetaMassPim
Proj2_30
Entries 1113
χ² / ndf 12.13 / 11
Norm 144.9 ± 7.1
Mean 0.9296 ± 0.0004
σ 0.009392 ± 0.000395
Pol Amp 9012 ± 1672.1
const term -0.7165 ± 0.0009
linear term 0.7674 ± 0.0011
quad term 0.8089 ± 0.0011
cube term -0.8638 ± 0.0011
0
20
40
60
80
100
120
140
160
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

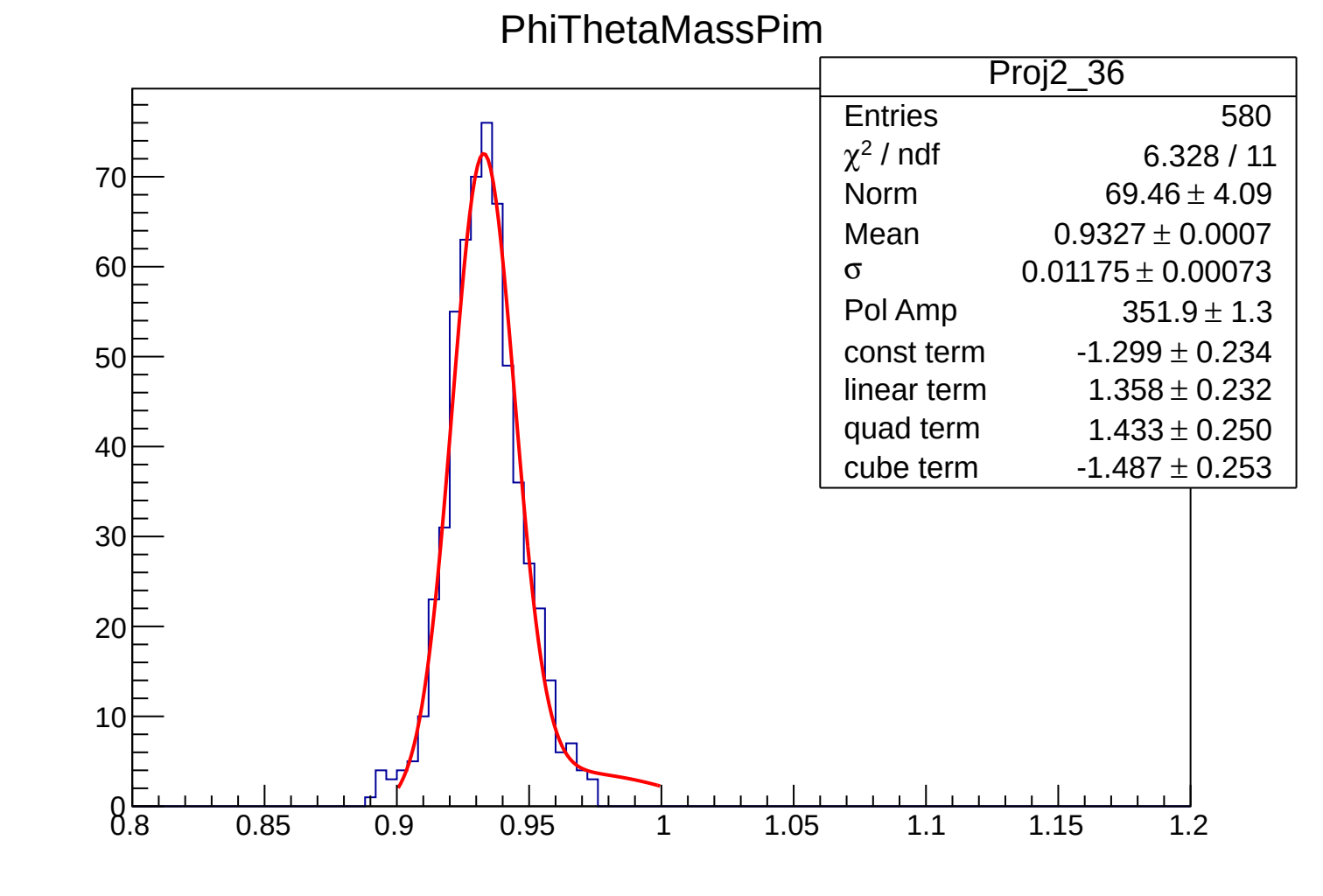

PhiThetaMassPim
Proj2_31
Entries 451
χ² / ndf 20.75 / 13
Norm 65.05 ± 3.97
Mean 0.931 ± 0.001
σ 0.01028 ± 0.00050
Pol Amp 368.5 ± 0.6
const term -0.8709 ± 0.2677
linear term 0.9087 ± 0.2766
quad term 0.921 ± 0.281
cube term -0.9572 ± 0.2918
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

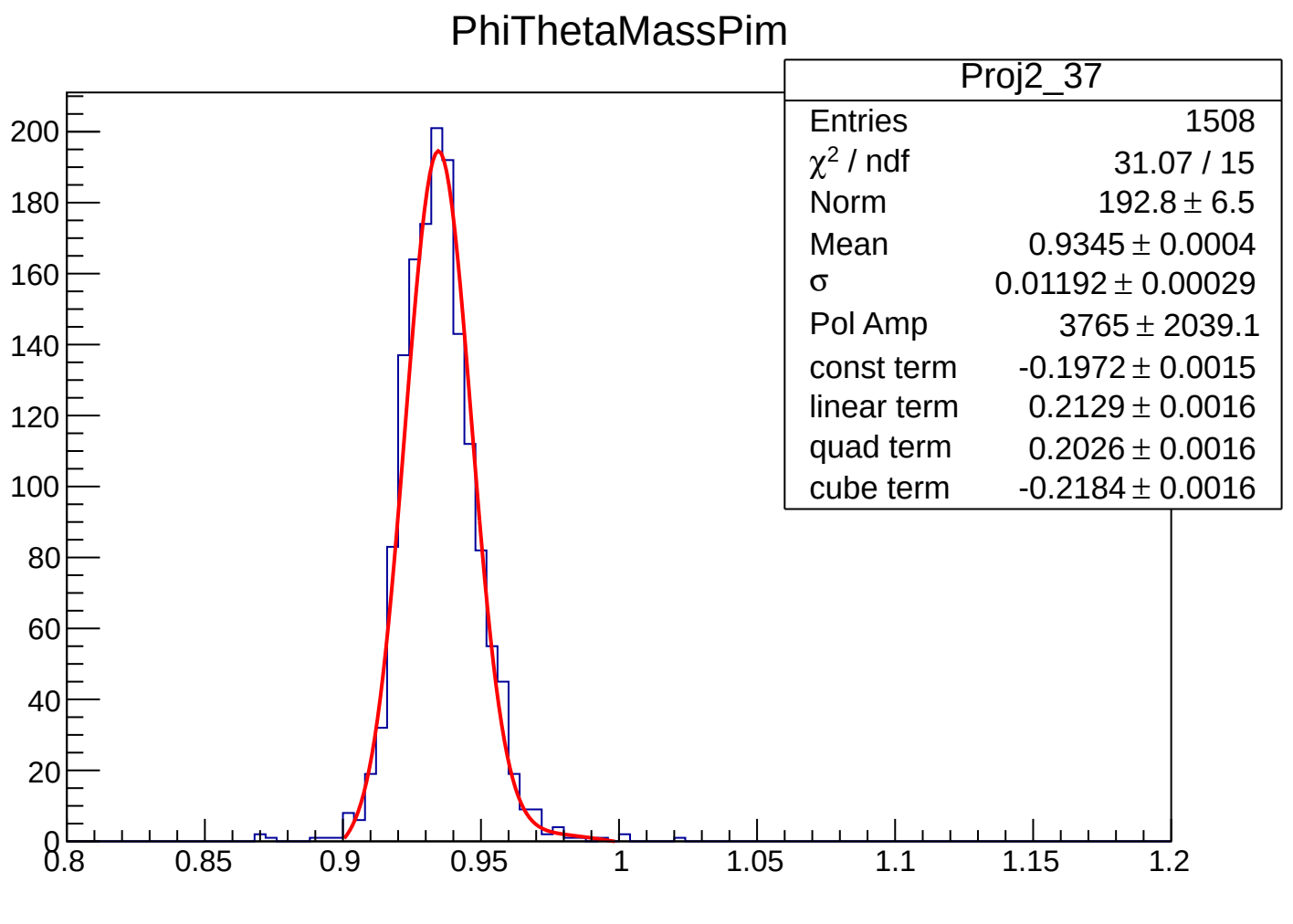

PhiThetaMassPim
Proj2_32
Entries 584
χ² / ndf 34.99 / 14
Norm 75.71 ± 4.25
Mean 0.9387 ± 0.0006
σ 0.01072 ± 0.00043
Pol Amp 369.2 ± 0.4
const term -0.5079 ± 0.0890
linear term 0.5652 ± 0.0927
quad term 0.5469 ± 0.0919
cube term -0.6034 ± 0.0972
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

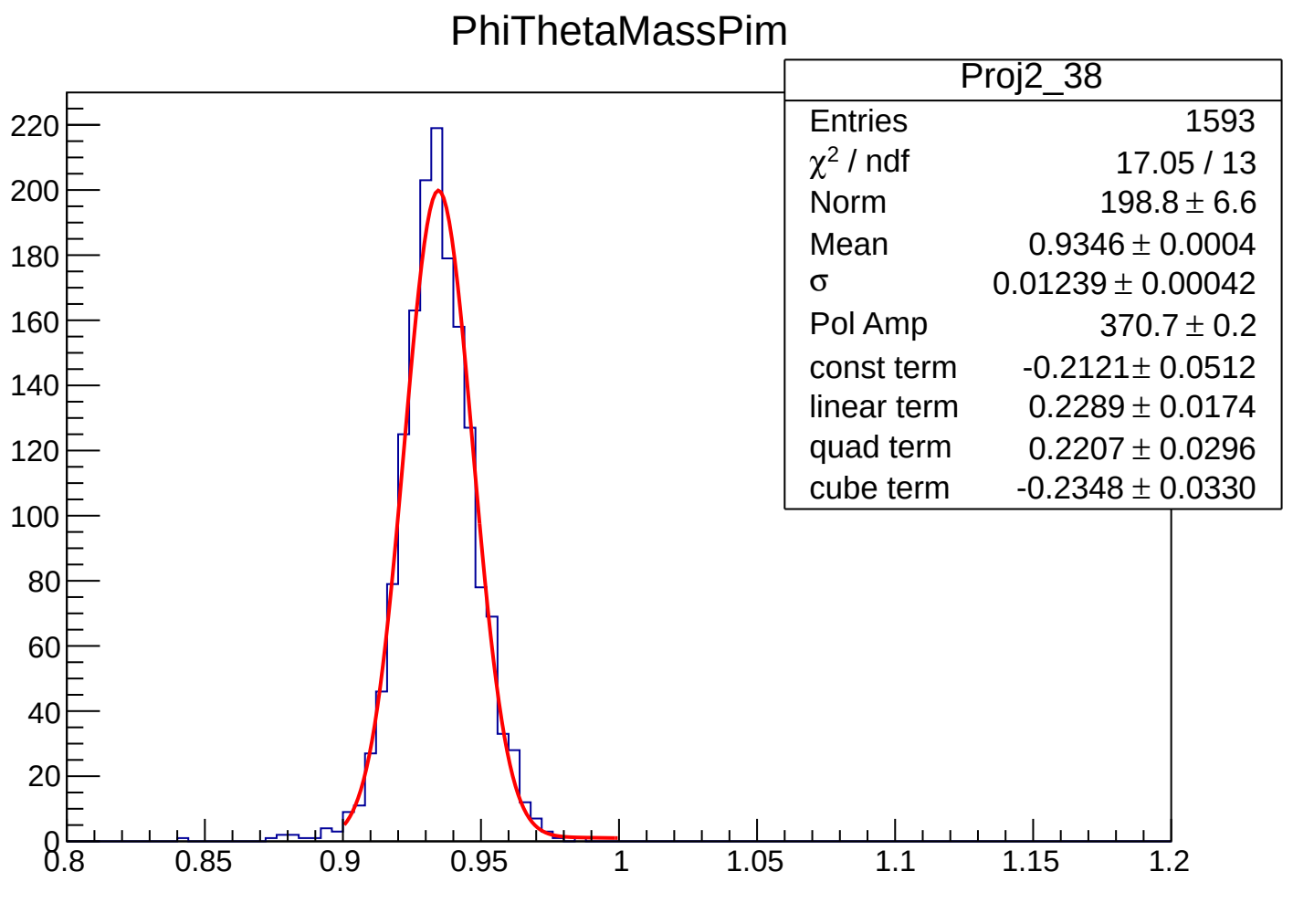

PhiThetaMassPim
Proj2_33
Entries 1626
χ² / ndf 20.81 / 15
Norm 206.8 ± 6.6
Mean 0.9358 ± 0.0003
σ 0.01227 ± 0.00037
Pol Amp 371.4 ± 0.2
const term -0.2318 ± 0.0430
linear term 0.2051 ± 0.0169
quad term 0.2201 ± 0.0266
cube term -0.1872 ± 0.0261
0
20
40
60
80
100
120
140
160
180
200
220
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

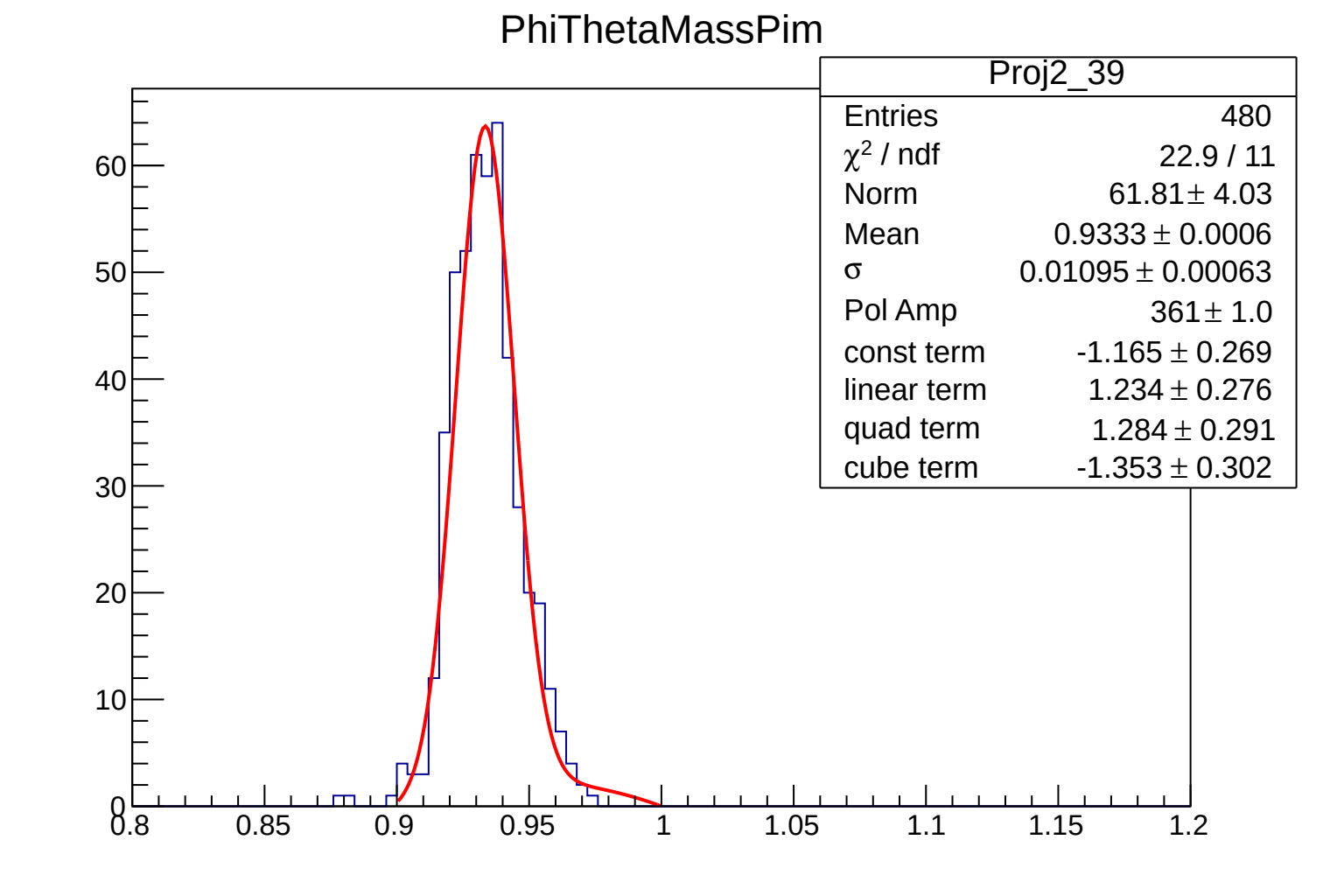

PhiThetaMassPim
Proj2_34
Entries 1581
χ² / ndf 22.05 / 16
Norm 208.3 ± 6.9
Mean 0.9329 ± 0.0004
σ 0.01149 ± 0.00028
Pol Amp 373 ± 83.8
const term -4.02 ± 0.02
linear term 4.289 ± 0.017
quad term 4.225 ± 0.018
cube term -4.497 ± 0.017
0
20
40
60
80
100
120
140
160
180
200
220
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

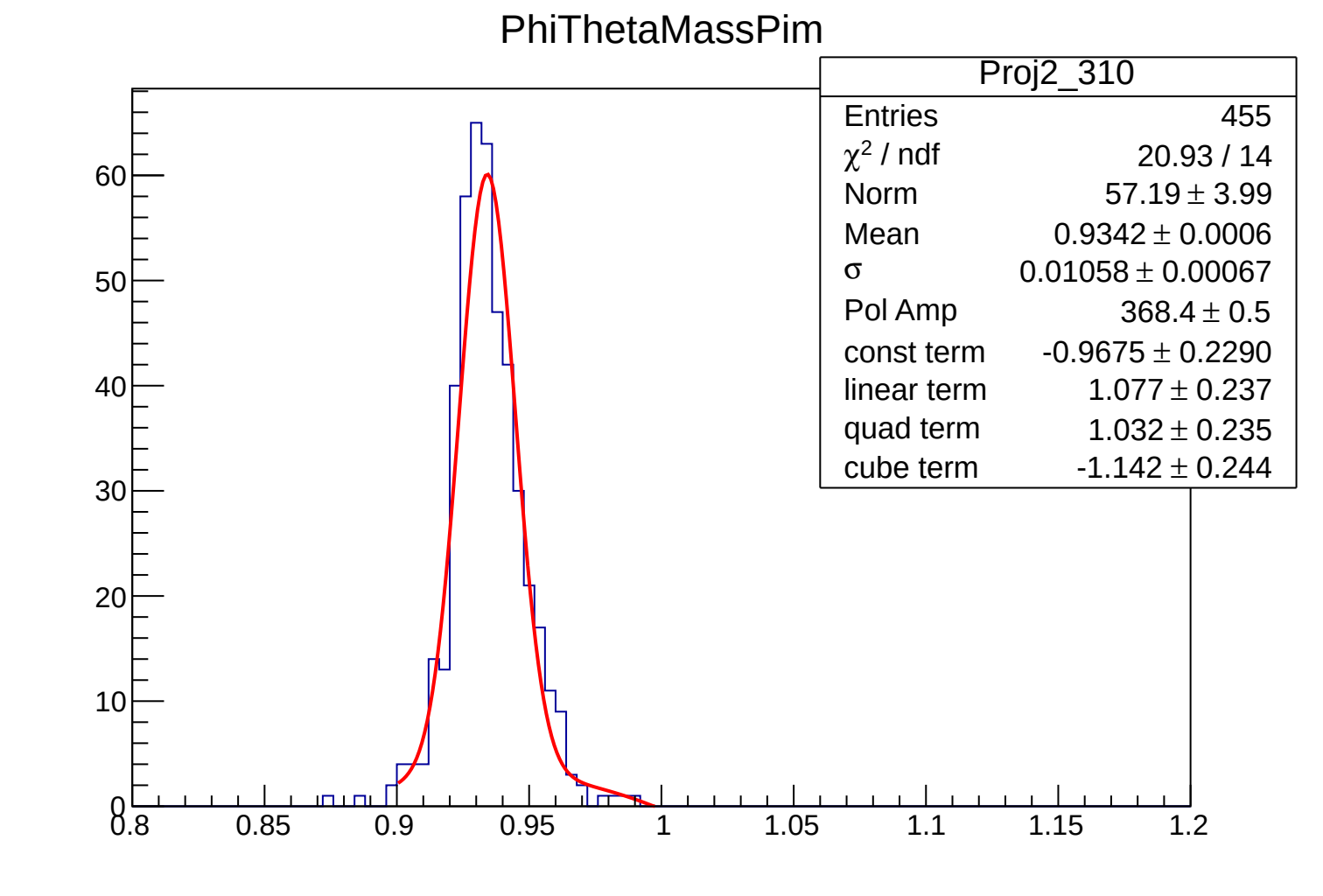

PhiThetaMassPim
Proj2_35
Entries 452
χ² / ndf 18.96 / 12
Norm 61.14 ± 4.00
Mean 0.9319 ± 0.0006
σ 0.01037 ± 0.00054
Pol Amp 461.2 ± 265.6
const term -1.212 ± 0.011
linear term 1.287 ± 0.012
quad term 1.334 ± 0.013
cube term -1.41 ± 0.01
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

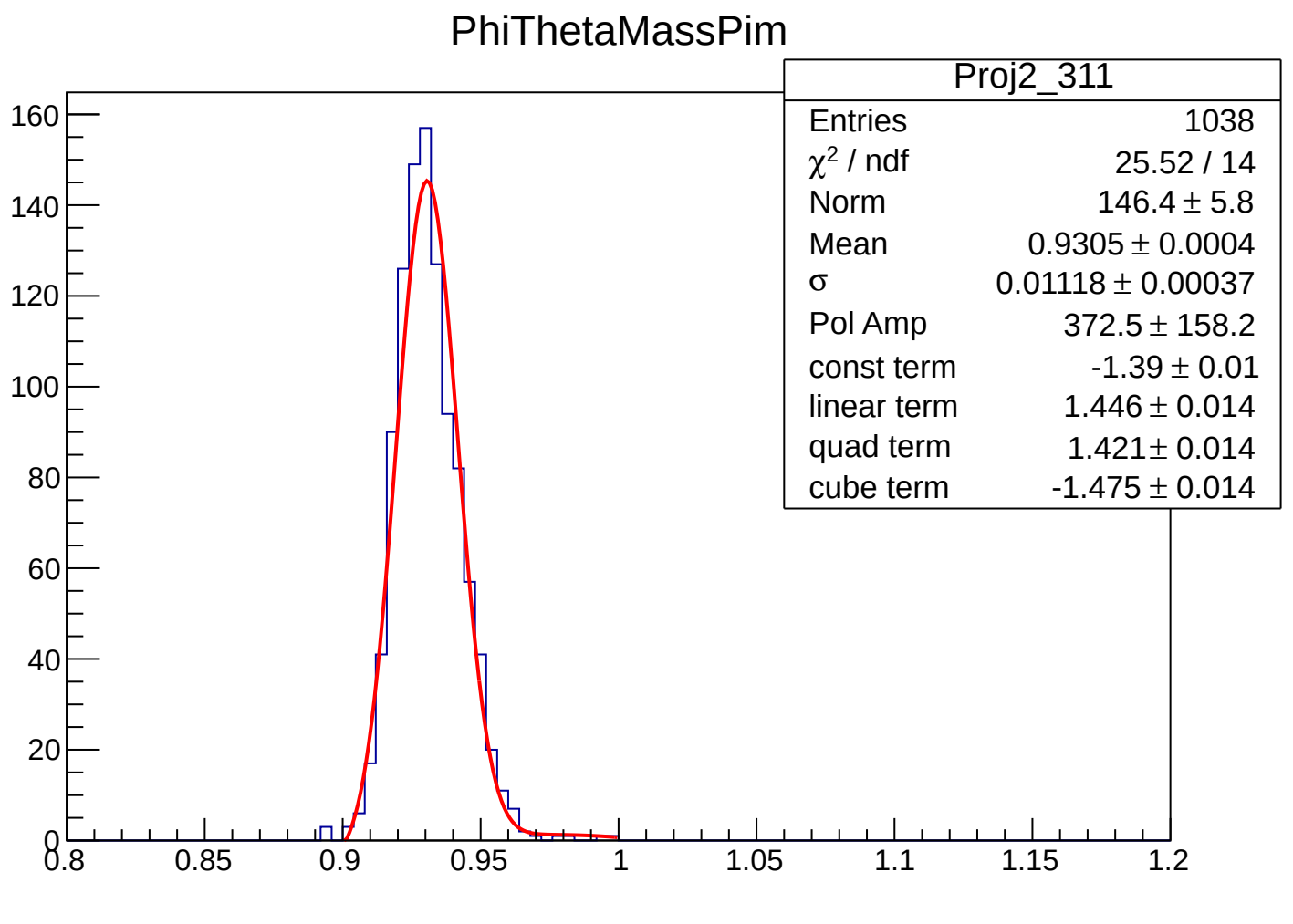

PhiThetaMassPim
Proj2_36
Entries 580
χ² / ndf 6.328 / 11
Norm 69.46 ± 4.09
Mean 0.9327 ± 0.0007
σ 0.01175 ± 0.00073
Pol Amp 351.9 ± 1.3
const term -1.299 ± 0.234
linear term 1.358 ± 0.232
quad term 1.433 ± 0.250
cube term -1.487 ± 0.253
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

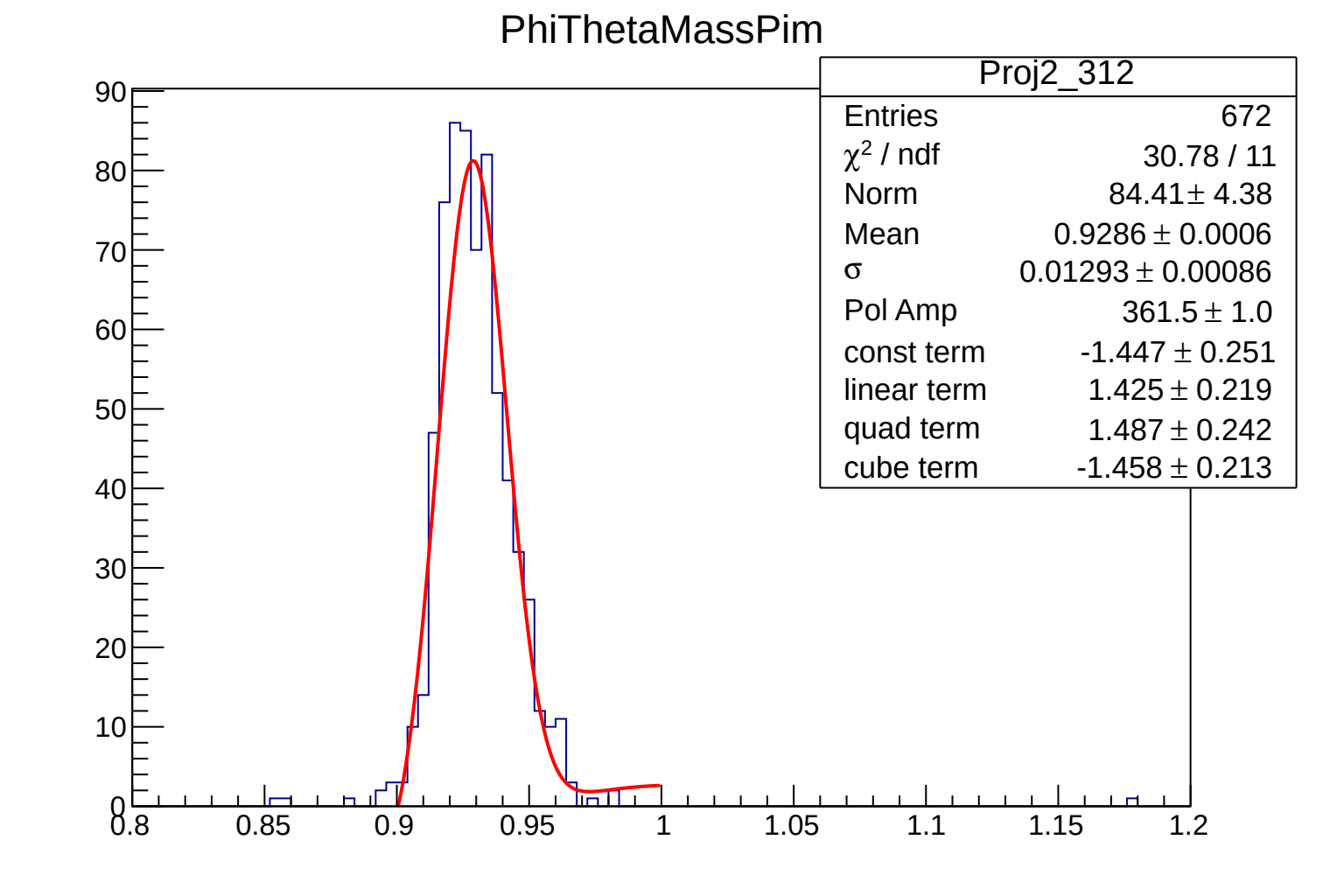

PhiThetaMassPim
Proj2_37
Entries 1508
χ² / ndf 31.07 / 15
Norm 192.8 ± 6.5
Mean 0.9345 ± 0.0004
σ 0.01192 ± 0.00029
Pol Amp 3765 ± 2039.1
const term -0.1972 ± 0.0015
linear term 0.2129 ± 0.0016
quad term 0.2026 ± 0.0016
cube term -0.2184 ± 0.0016
0
20
40
60
80
100
120
140
160
180
200
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

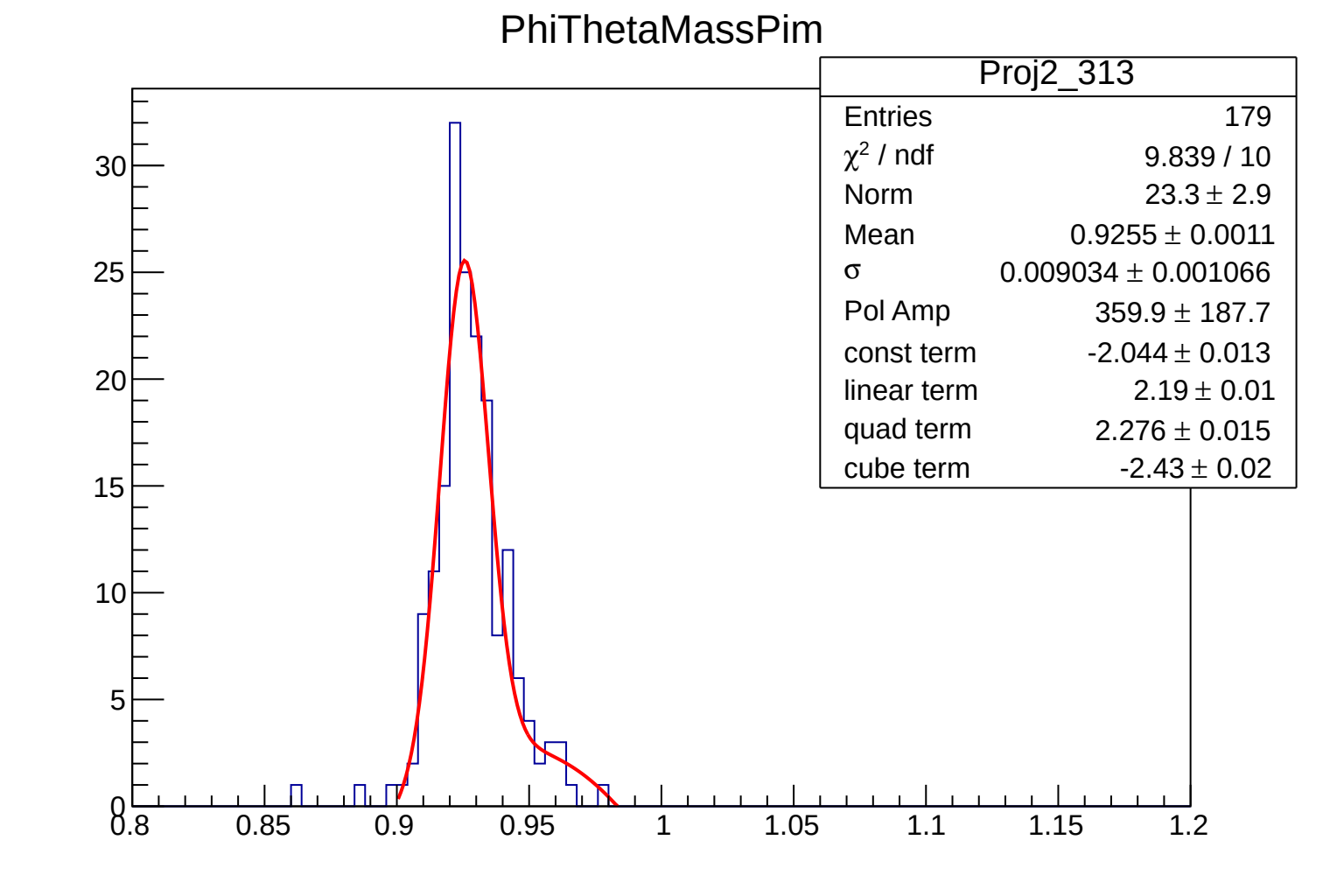

PhiThetaMassPim
Proj2_38
Entries 1593
χ² / ndf 17.05 / 13
Norm 198.8 ± 6.6
Mean 0.9346 ± 0.0004
σ 0.01239 ± 0.00042
Pol Amp 370.7 ± 0.2
const term -0.2121 ± 0.0512
linear term 0.2289 ± 0.0174
quad term 0.2207 ± 0.0296
cube term -0.2348 ± 0.0330
0 20 40 60 80 100 120 140 160 180 200 220
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

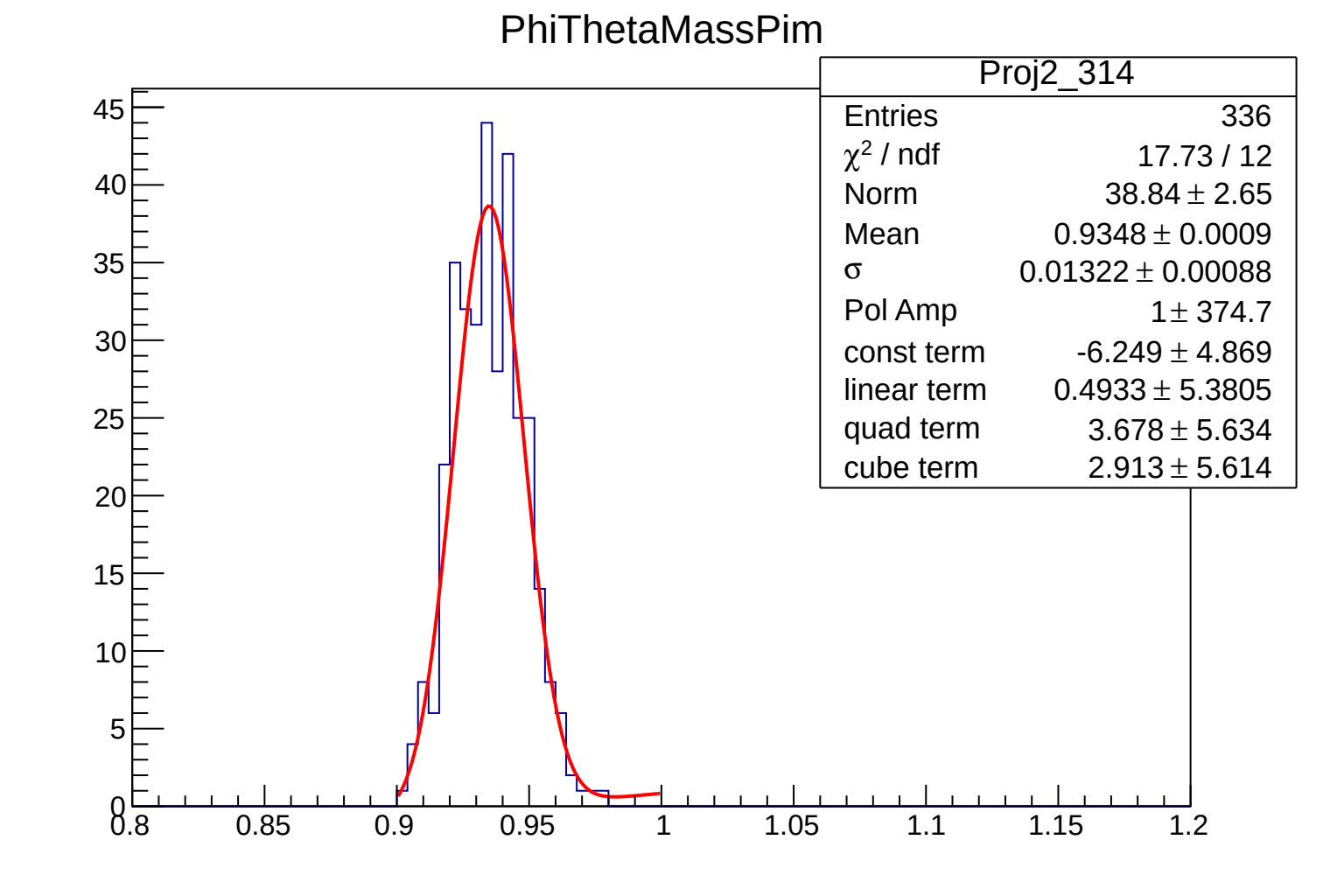

PhiThetaMassPim
Proj2_39
Entries 480
χ² / ndf 22.9 / 11
Norm 61.81 ± 4.03
Mean 0.9333 ± 0.0006
σ 0.01095 ± 0.00063
Pol Amp 361 ± 1.0
const term -1.165 ± 0.269
linear term 1.234 ± 0.276
quad term 1.284 ± 0.291
cube term -1.353 ± 0.302
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

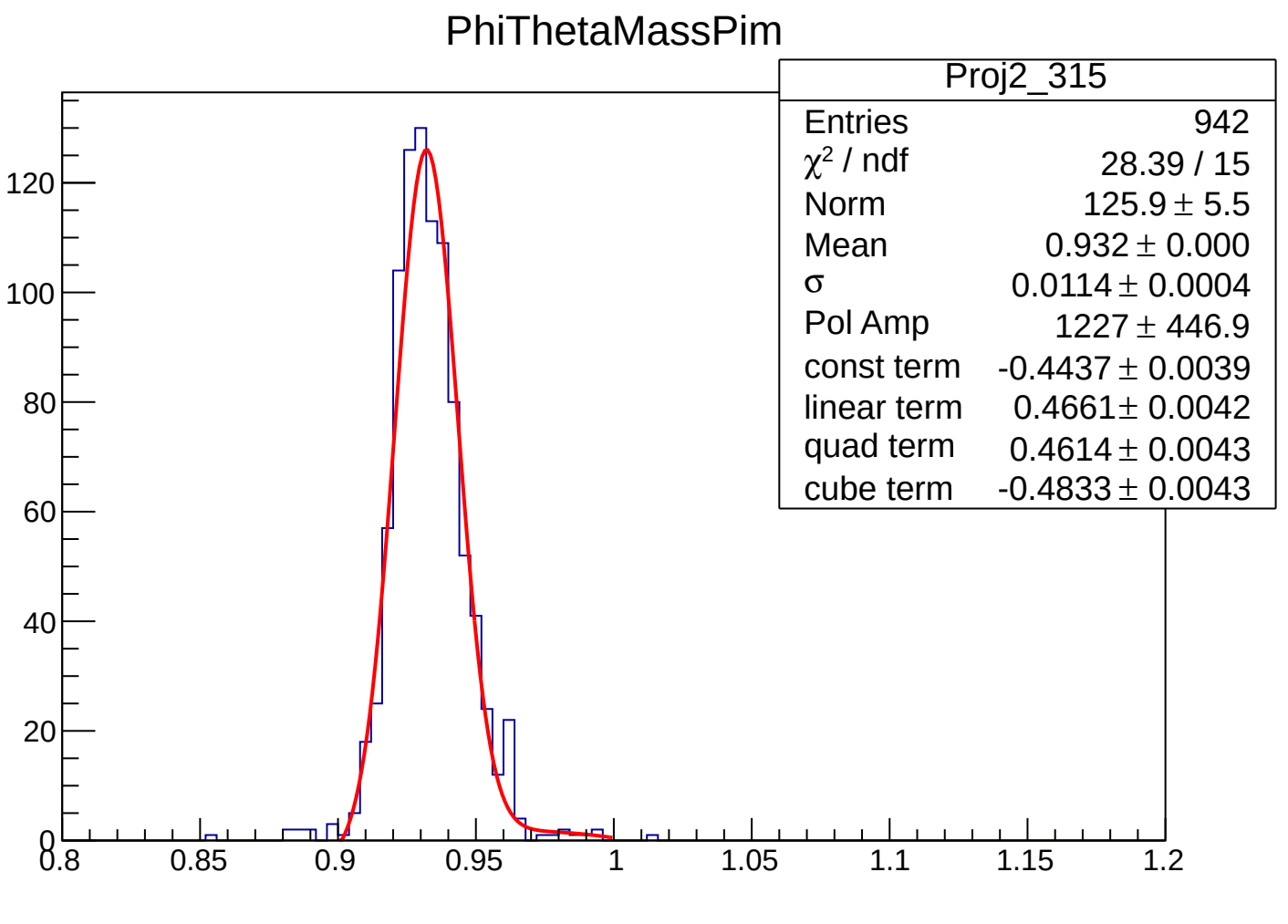

PhiThetaMassPim
Proj2_310
Entries 455
χ² / ndf 20.93 / 14
Norm 57.19 ± 3.99
Mean 0.9342 ± 0.0006
σ 0.01058 ± 0.00067
Pol Amp 368.4 ± 0.5
const term -0.9675 ± 0.2290
linear term 1.077 ± 0.237
quad term 1.032 ± 0.235
cube term -1.142 ± 0.244
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

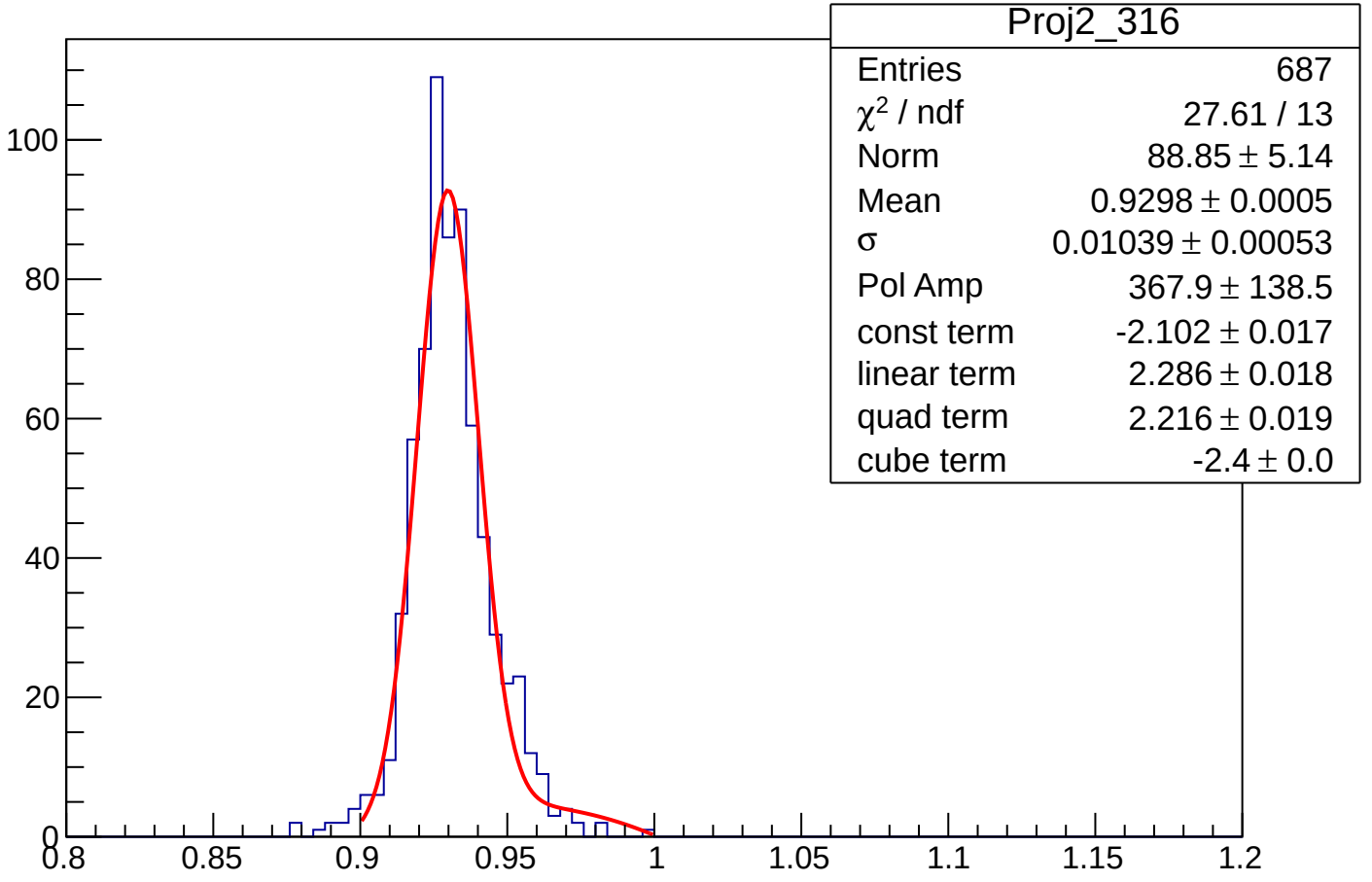

PhiThetaMassPim
Proj2_311
Entries 1038
χ² / ndf 25.52 / 14
Norm 146.4 ± 5.8
Mean 0.9305 ± 0.0004
σ 0.01118 ± 0.00037
Pol Amp 372.5 ± 158.2
const term -1.39 ± 0.01
linear term 1.446 ± 0.014
quad term 1.421 ± 0.014
cube term -1.475 ± 0.014
160
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

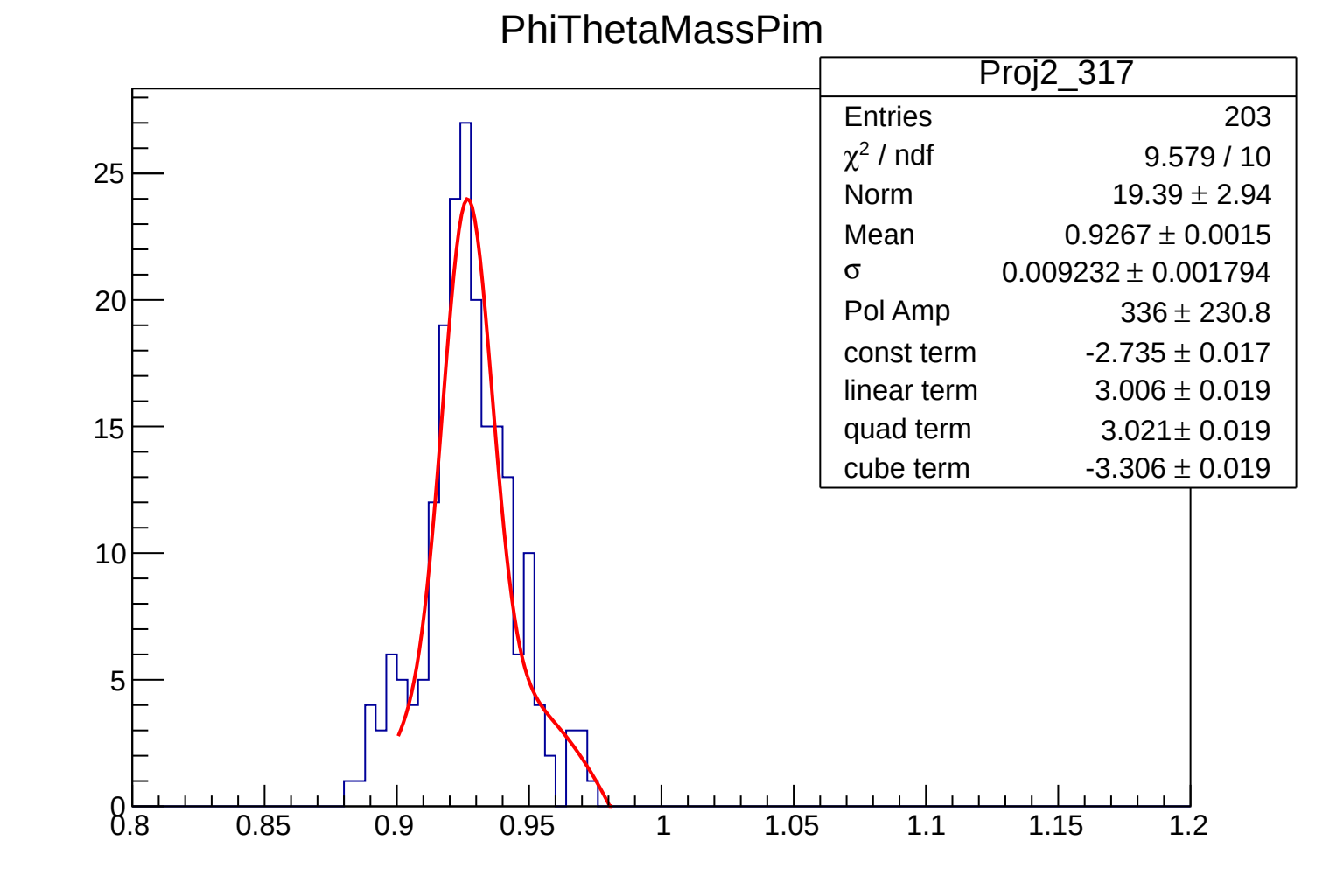

PhiThetaMassPim
Proj2_312
Entries 672
χ² / ndf 30.78 / 11
Norm 84.41 ± 4.38
Mean 0.9286 ± 0.0006
σ 0.01293 ± 0.00086
Pol Amp 361.5 ± 1.0
const term -1.447 ± 0.251
linear term 1.425 ± 0.219
quad term 1.487 ± 0.242
cube term -1.458 ± 0.213
90
80
70
60
50
40
30
20
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

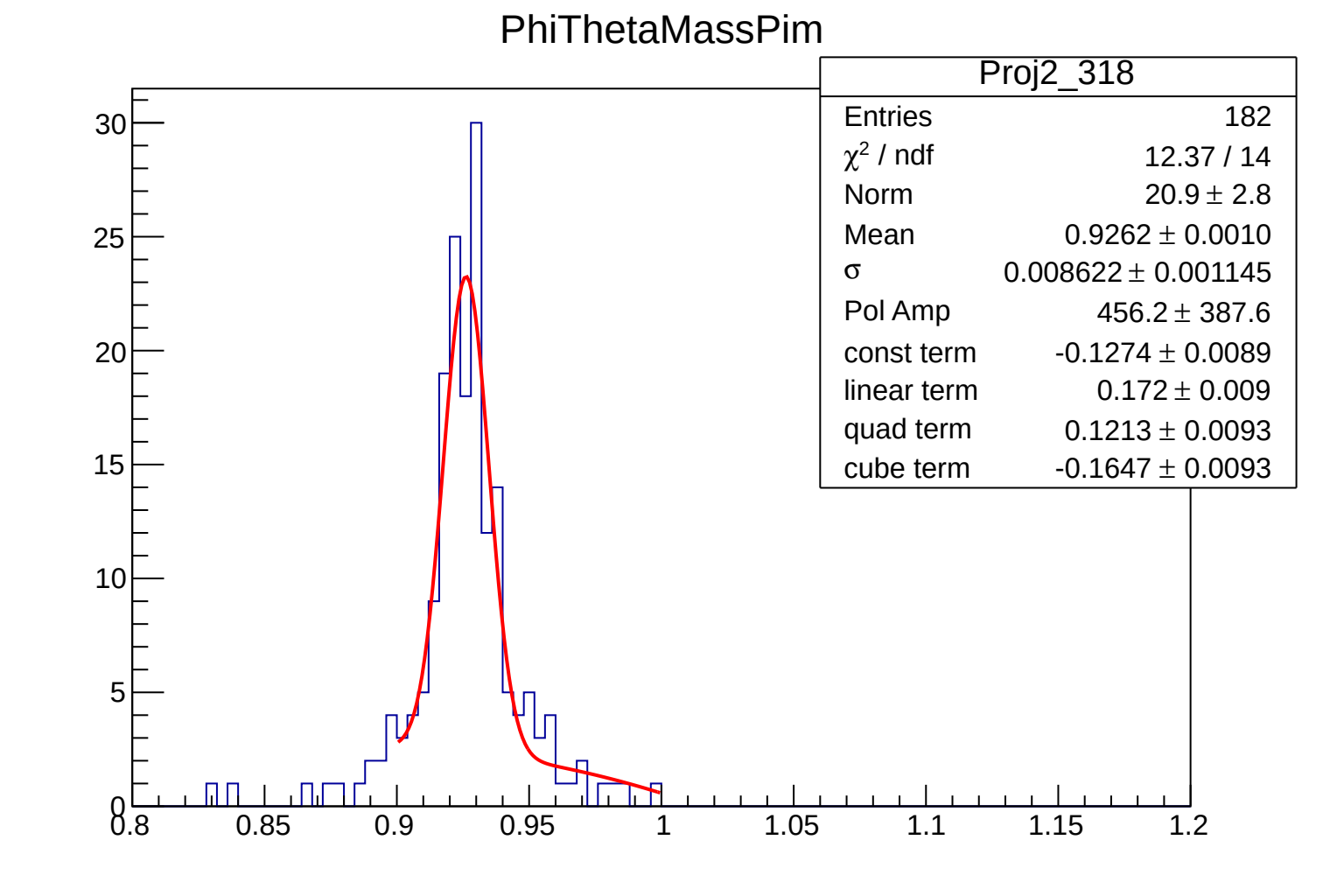

PhiThetaMassPim
Proj2_313
Entries 179
χ² / ndf 9.839 / 10
Norm 23.3 ± 2.9
Mean 0.9255 ± 0.0011
σ 0.009034 ± 0.001066
Pol Amp 359.9 ± 187.7
const term -2.044 ± 0.013
linear term 2.19 ± 0.01
quad term 2.276 ± 0.015
cube term -2.43 ± 0.02
0
5
10
15
20
25
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

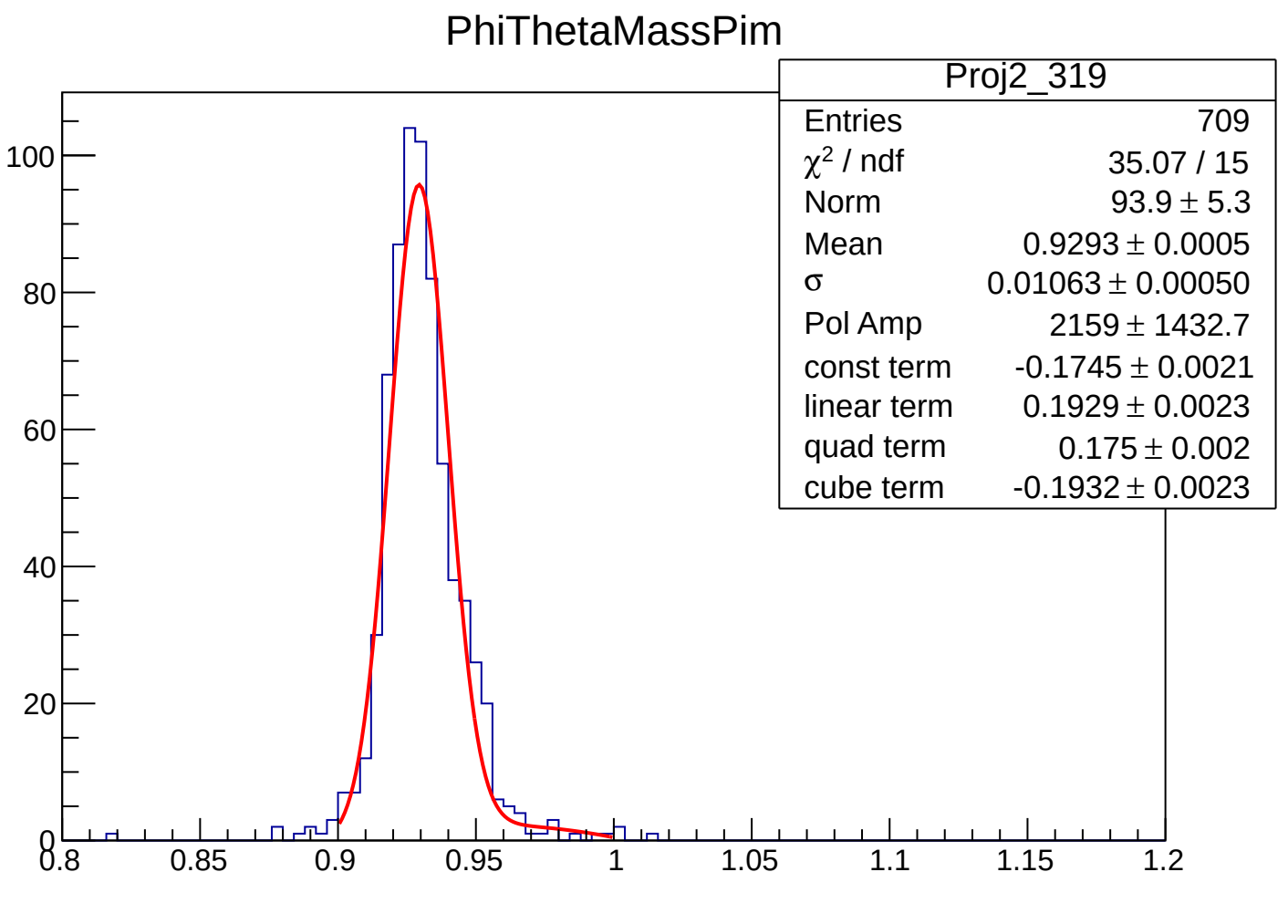

PhiThetaMassPim
Proj2_314
Entries 336
χ² / ndf 17.73 / 12
Norm 38.84 ± 2.65
Mean 0.9348 ± 0.0009
σ 0.01322 ± 0.00088
Pol Amp 1 ± 374.7
const term -6.249 ± 4.869
linear term 0.4933 ± 5.3805
quad term 3.678 ± 5.634
cube term 2.913 ± 5.614
0
5
10
15
20
25
30
35
40
45
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

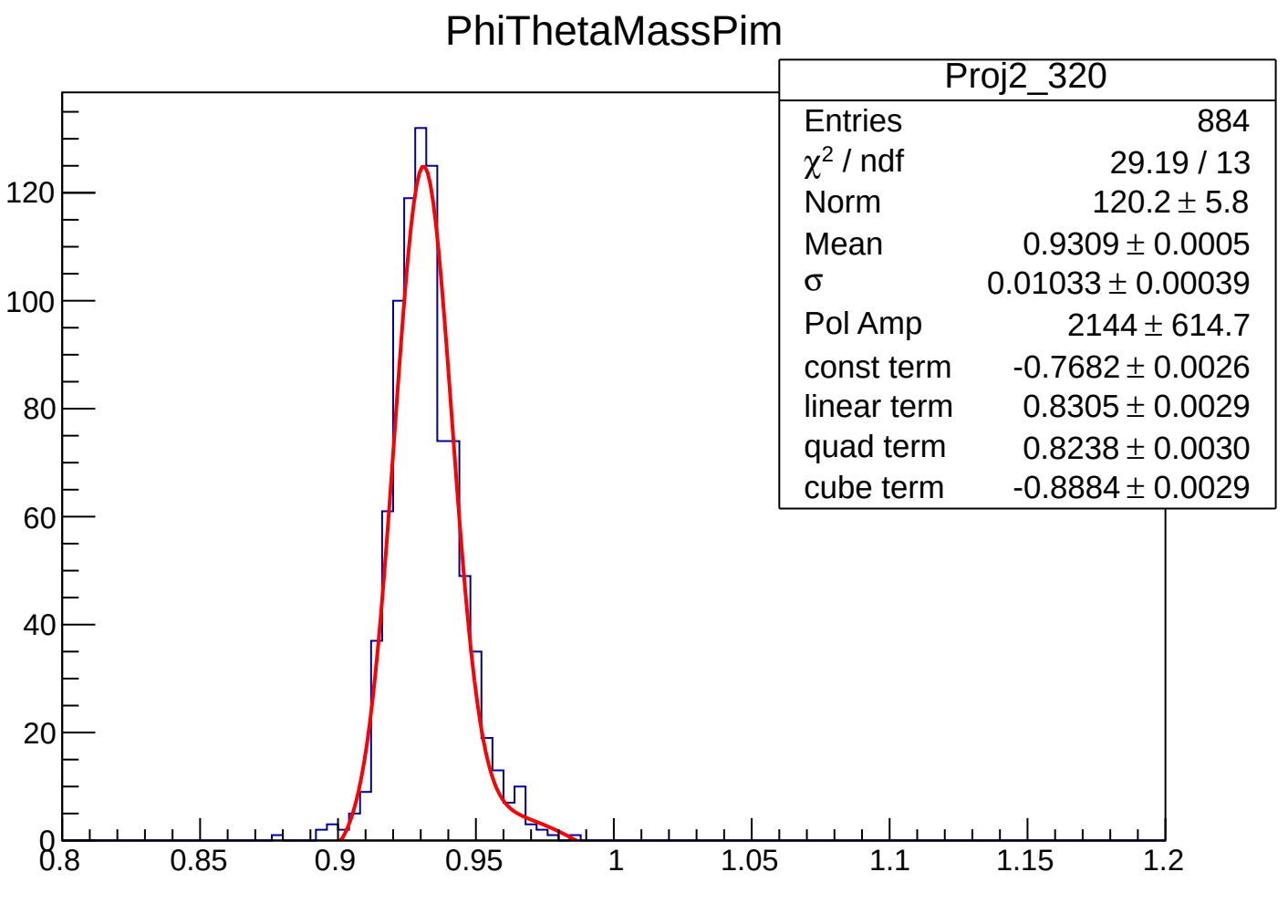

PhiThetaMassPim
Proj2_315
Entries 942
χ² / ndf 28.39 / 15
Norm 125.9 ± 5.5
Mean 0.932 ± 0.000
σ 0.0114 ± 0.0004
Pol Amp 1227 ± 446.9
const term -0.4437 ± 0.0039
linear term 0.4661 ± 0.0042
quad term 0.4614 ± 0.0043
cube term -0.4833 ± 0.0043
0
20
40
60
80
100
120
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

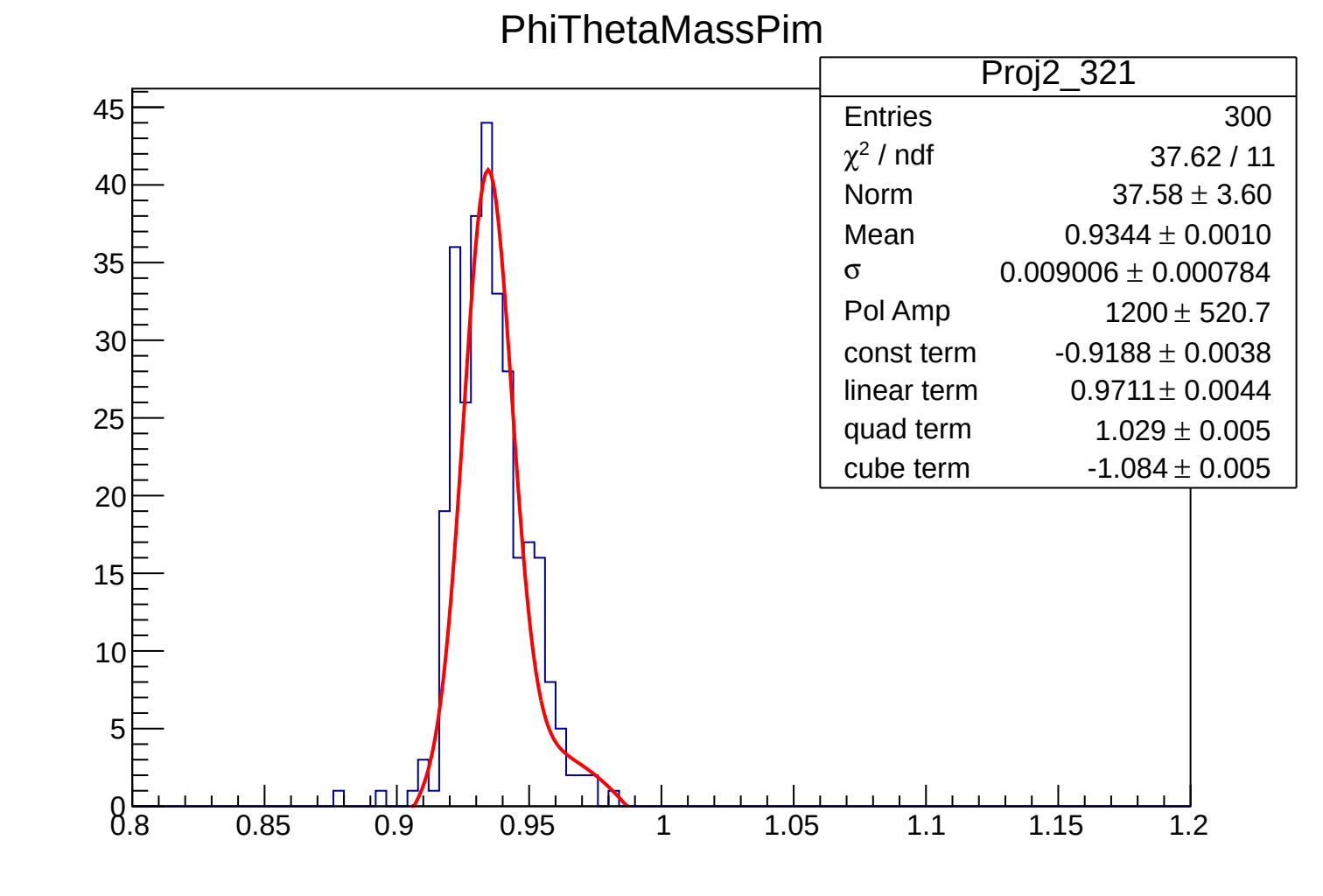

PhiThetaMassPim
Proj2_316
Entries 687
χ² / ndf 27.61 / 13
Norm 88.85 ± 5.14
Mean 0.9298 ± 0.0005
σ 0.01039 ± 0.00053
Pol Amp 367.9 ± 138.5
const term -2.102 ± 0.017
linear term 2.286 ± 0.018
quad term 2.216 ± 0.019
cube term -2.4 ± 0.0
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

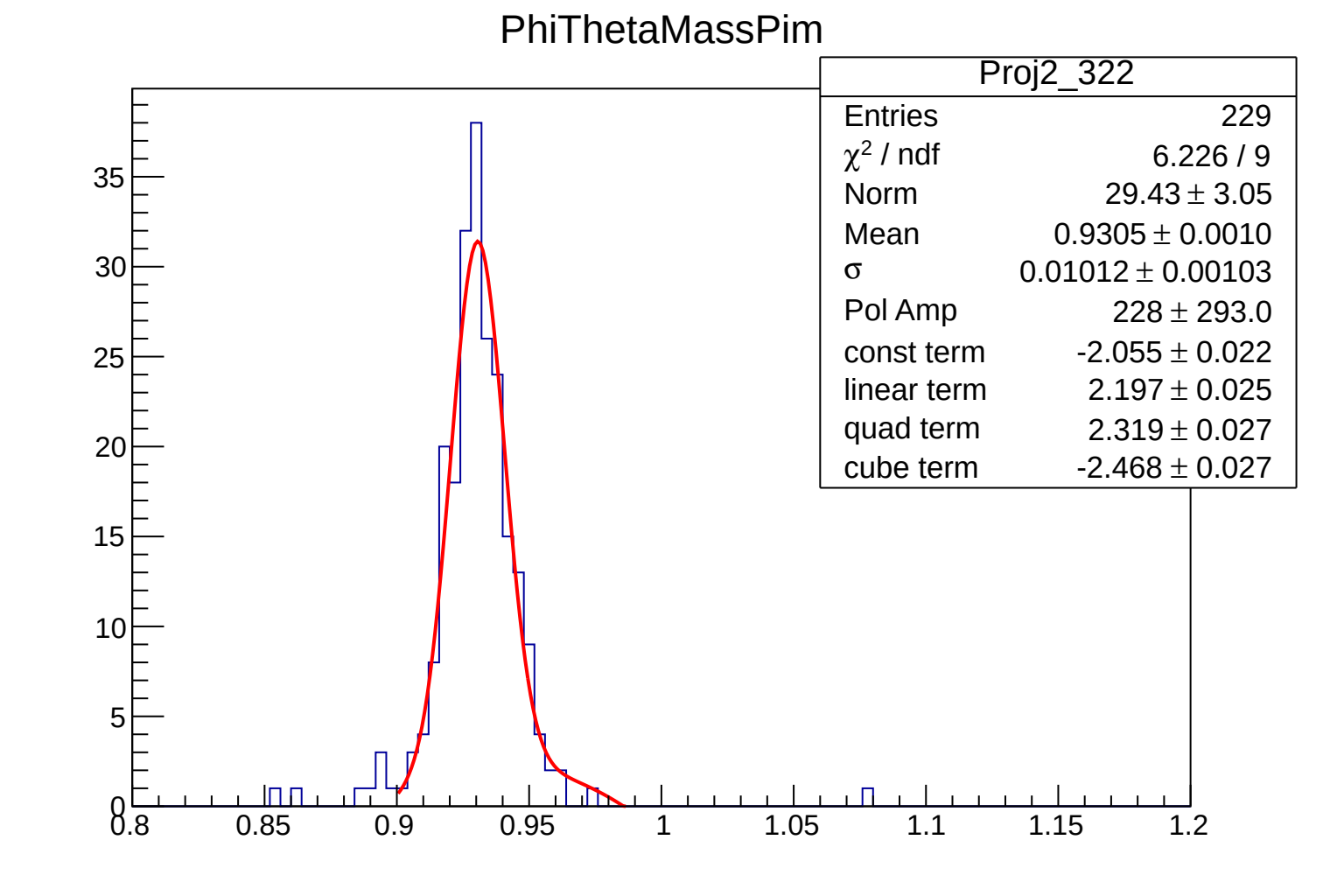

PhiThetaMassPim
Proj2_317
Entries 203
χ² / ndf 9.579 / 10
Norm 19.39 ± 2.94
Mean 0.9267 ± 0.0015
σ 0.009232 ± 0.001794
Pol Amp 336 ± 230.8
const term -2.735 ± 0.017
linear term 3.006 ± 0.019
quad term 3.021 ± 0.019
cube term -3.306 ± 0.019
0
5
10
15
20
25
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

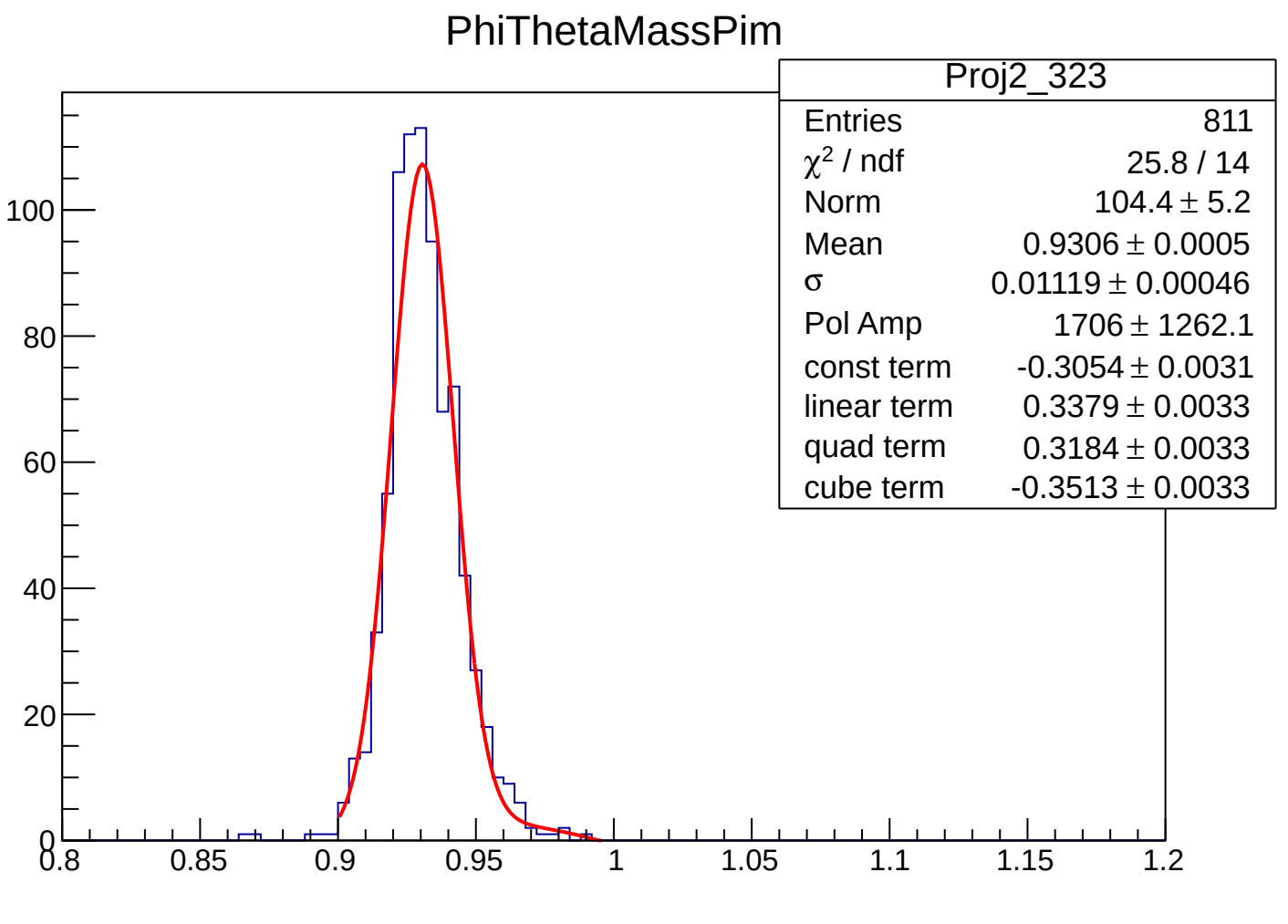

PhiThetaMassPim
Proj2_318
Entries 182
χ² / ndf 12.37 / 14
Norm 20.9 ± 2.8
Mean 0.9262 ± 0.0010
σ 0.008622 ± 0.001145
Pol Amp 456.2 ± 387.6
const term -0.1274 ± 0.0089
linear term 0.172 ± 0.009
quad term 0.1213 ± 0.0093
cube term -0.1647 ± 0.0093
0
5
10
15
20
25
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

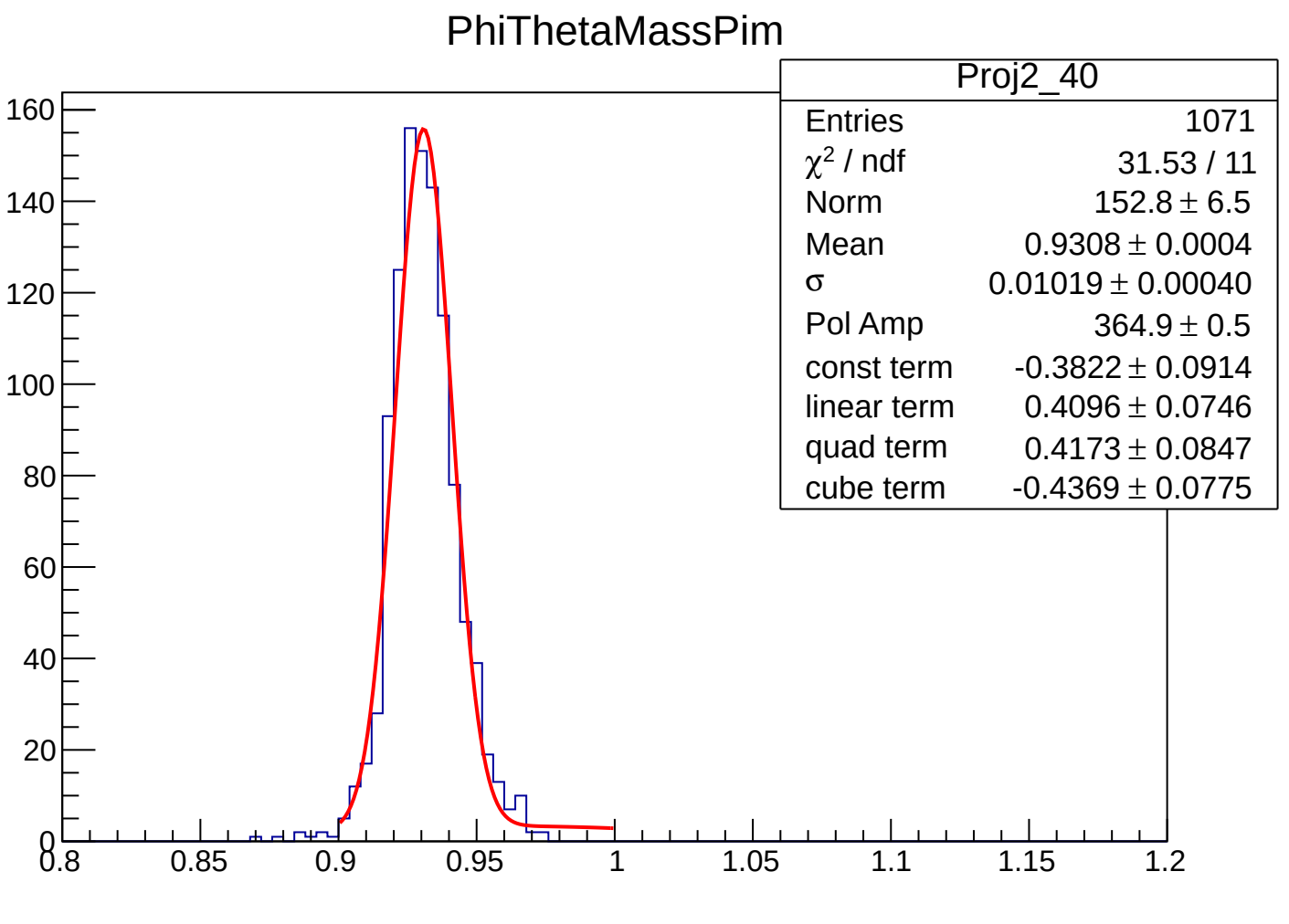

PhiThetaMassPim
Proj2_319
Entries 709
χ² / ndf 35.07 / 15
Norm 93.9 ± 5.3
Mean 0.9293 ± 0.0005
σ 0.01063 ± 0.00050
Pol Amp 2159 ± 1432.7
const term -0.1745 ± 0.0021
linear term 0.1929 ± 0.0023
quad term 0.175 ± 0.002
cube term -0.1932 ± 0.0023
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

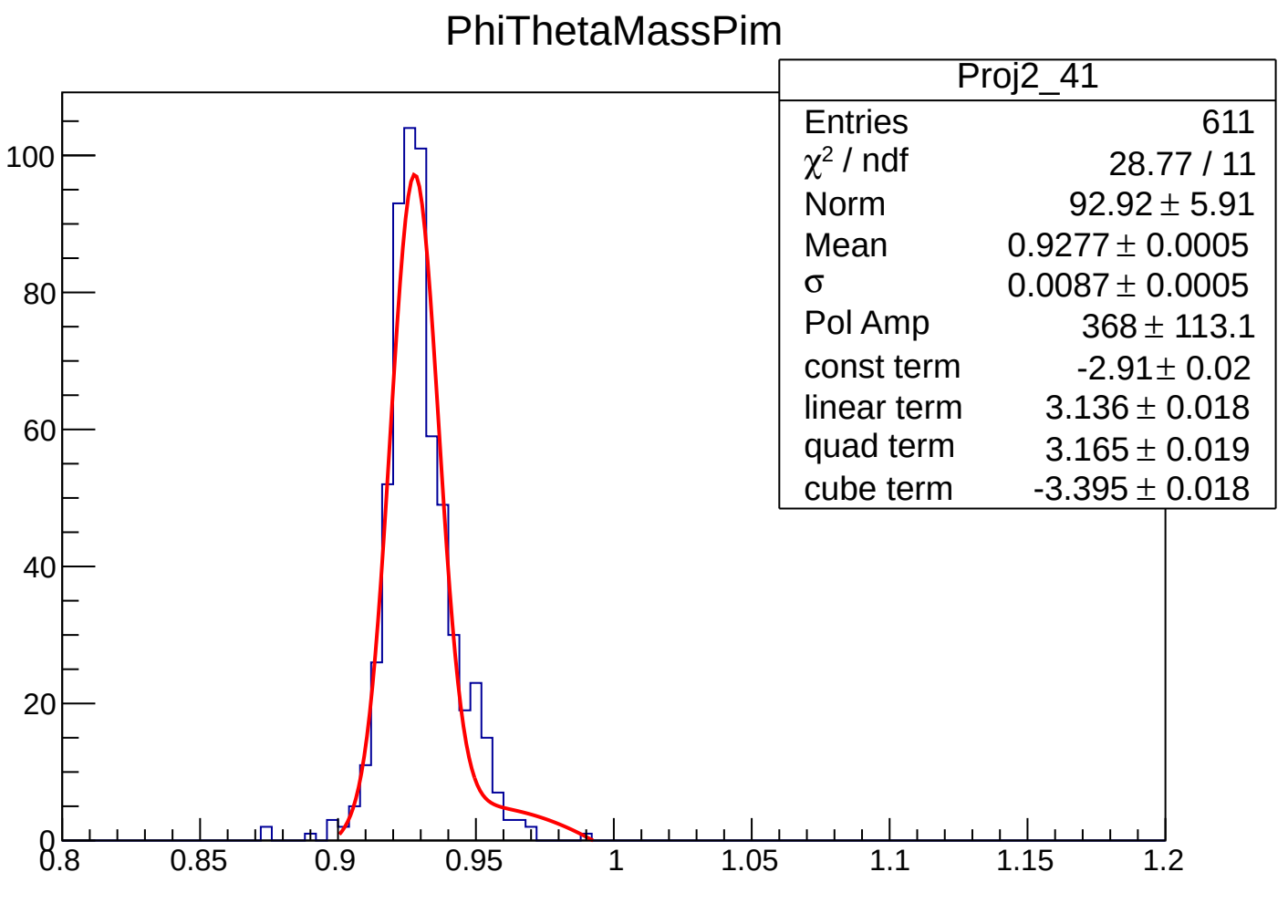

PhiThetaMassPim
Proj2_320
Entries 884
χ² / ndf 29.19 / 13
Norm 120.2 ± 5.8
Mean 0.9309 ± 0.0005
σ 0.01033 ± 0.00039
Pol Amp 2144 ± 614.7
const term -0.7682 ± 0.0026
linear term 0.8305 ± 0.0029
quad term 0.8238 ± 0.0030
cube term -0.8884 ± 0.0029
0
20
40
60
80
100
120
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

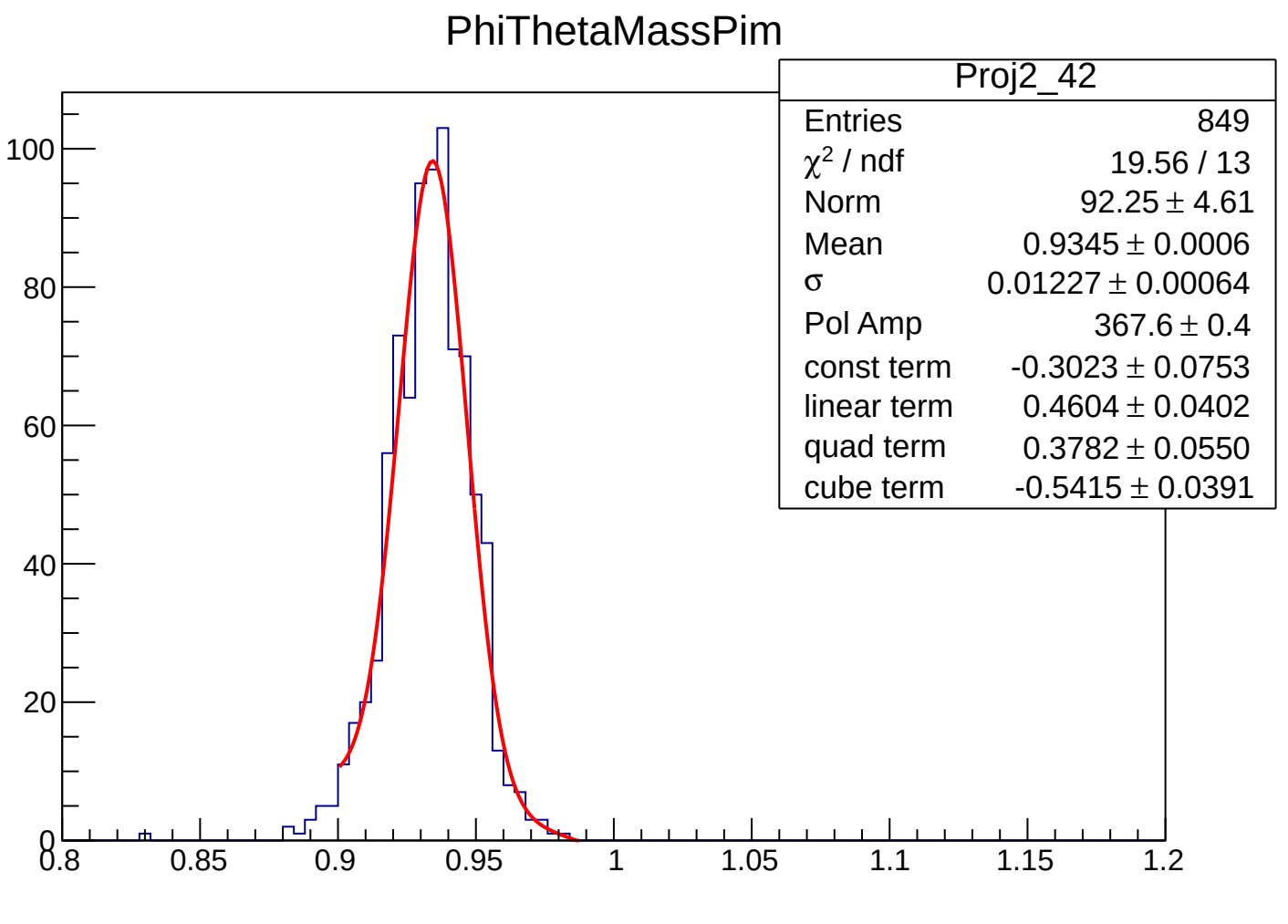

PhiThetaMassPim
Proj2_321
Entries 300
χ² / ndf 37.62 / 11
Norm 37.58 ± 3.60
Mean 0.9344 ± 0.0010
σ 0.009006 ± 0.000784
Pol Amp 1200 ± 520.7
const term -0.9188 ± 0.0038
linear term 0.9711 ± 0.0044
quad term 1.029 ± 0.005
cube term -1.084 ± 0.005
0 5 10 15 20 25 30 35 40 45
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

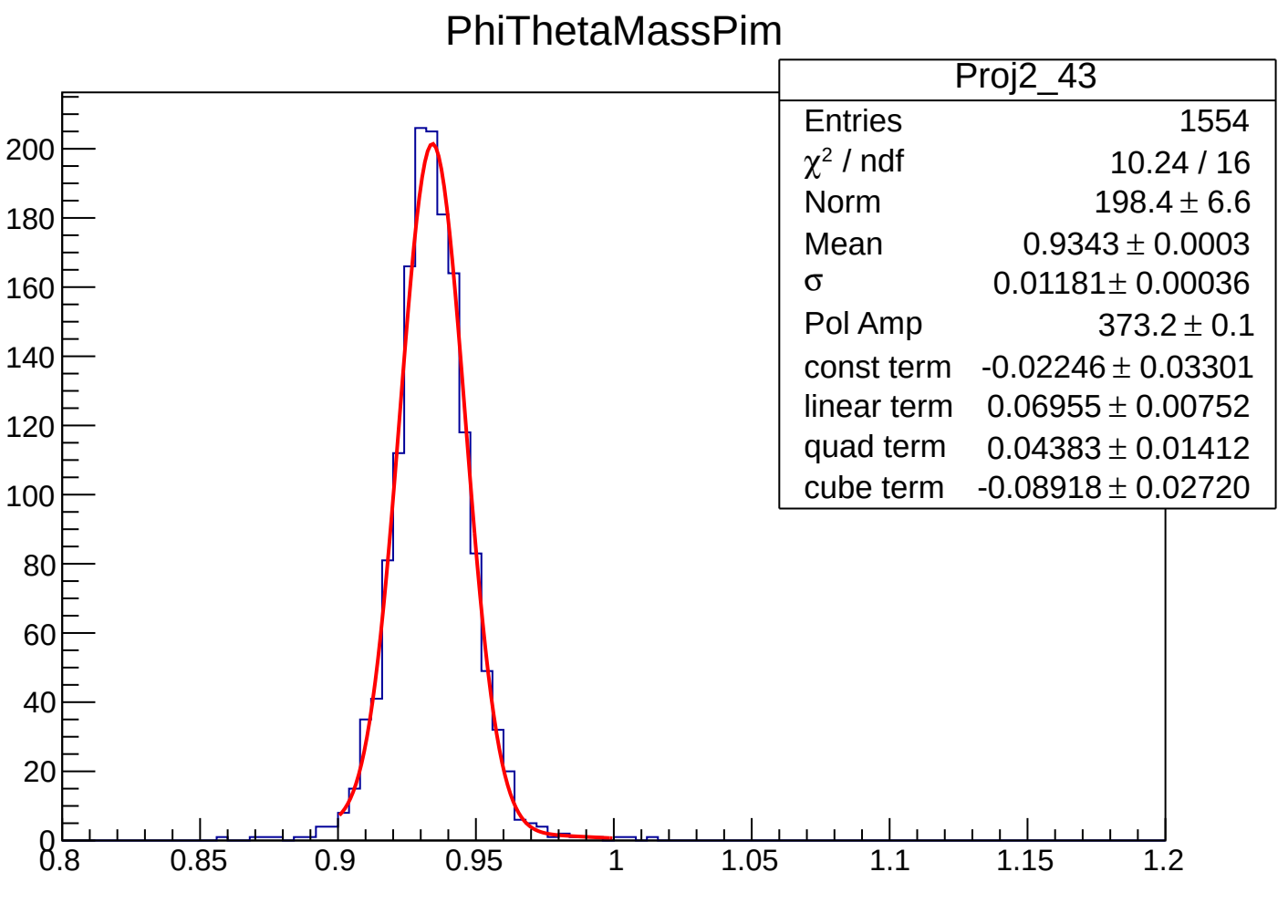

PhiThetaMassPim
Proj2_322
Entries 229
χ² / ndf 6.226 / 9
Norm 29.43 ± 3.05
Mean 0.9305 ± 0.0010
σ 0.01012 ± 0.00103
Pol Amp 228 ± 293.0
const term -2.055 ± 0.022
linear term 2.197 ± 0.025
quad term 2.319 ± 0.027
cube term -2.468 ± 0.027
0
5
10
15
20
25
30
35
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

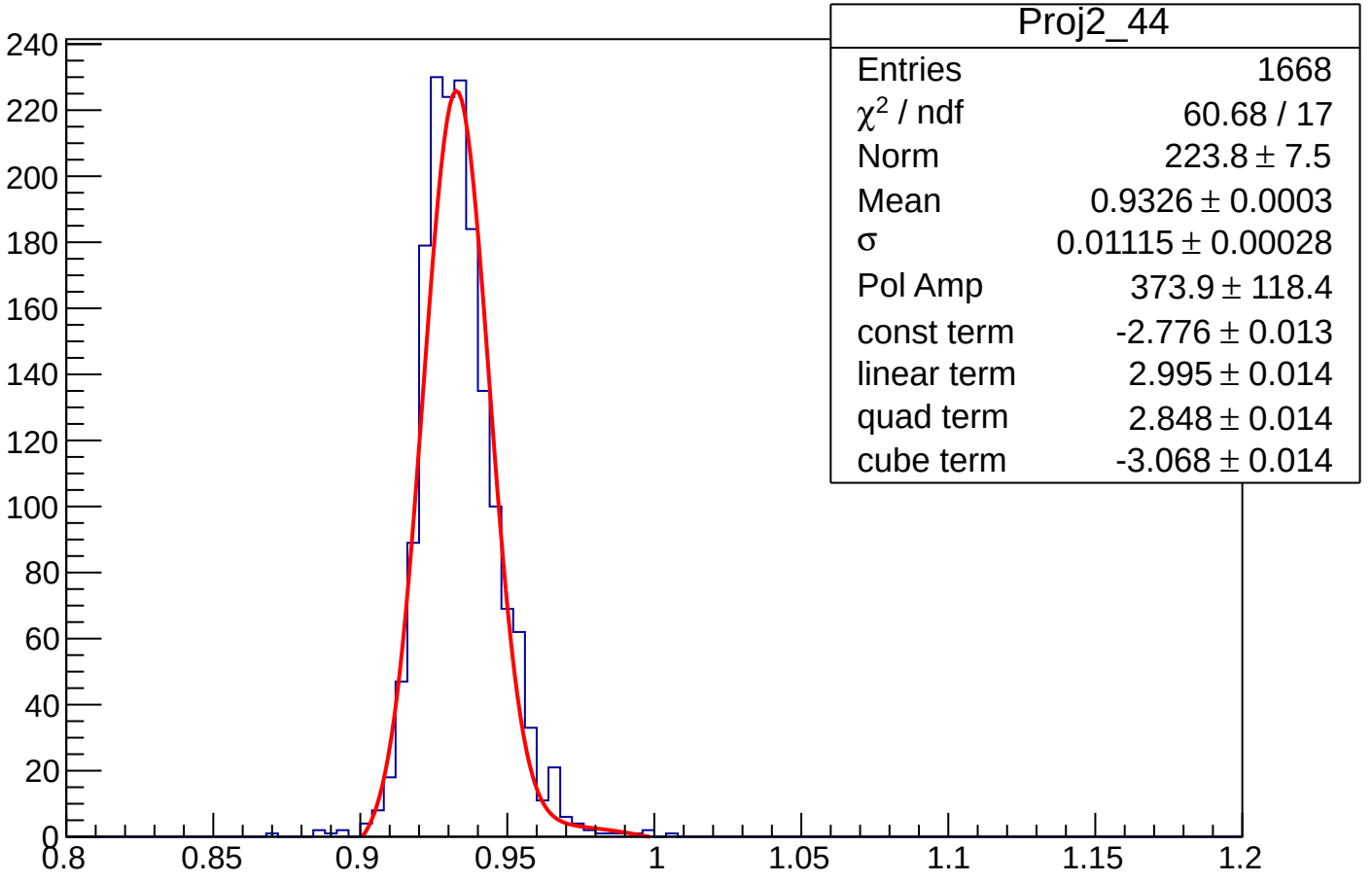

PhiThetaMassPim
Proj2_323
Entries 811
χ² / ndf 25.8 / 14
Norm 104.4 ± 5.2
Mean 0.9306 ± 0.0005
σ 0.01119 ± 0.00046
Pol Amp 1706 ± 1262.1
const term -0.3054 ± 0.0031
linear term 0.3379 ± 0.0033
quad term 0.3184 ± 0.0033
cube term -0.3513 ± 0.0033
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

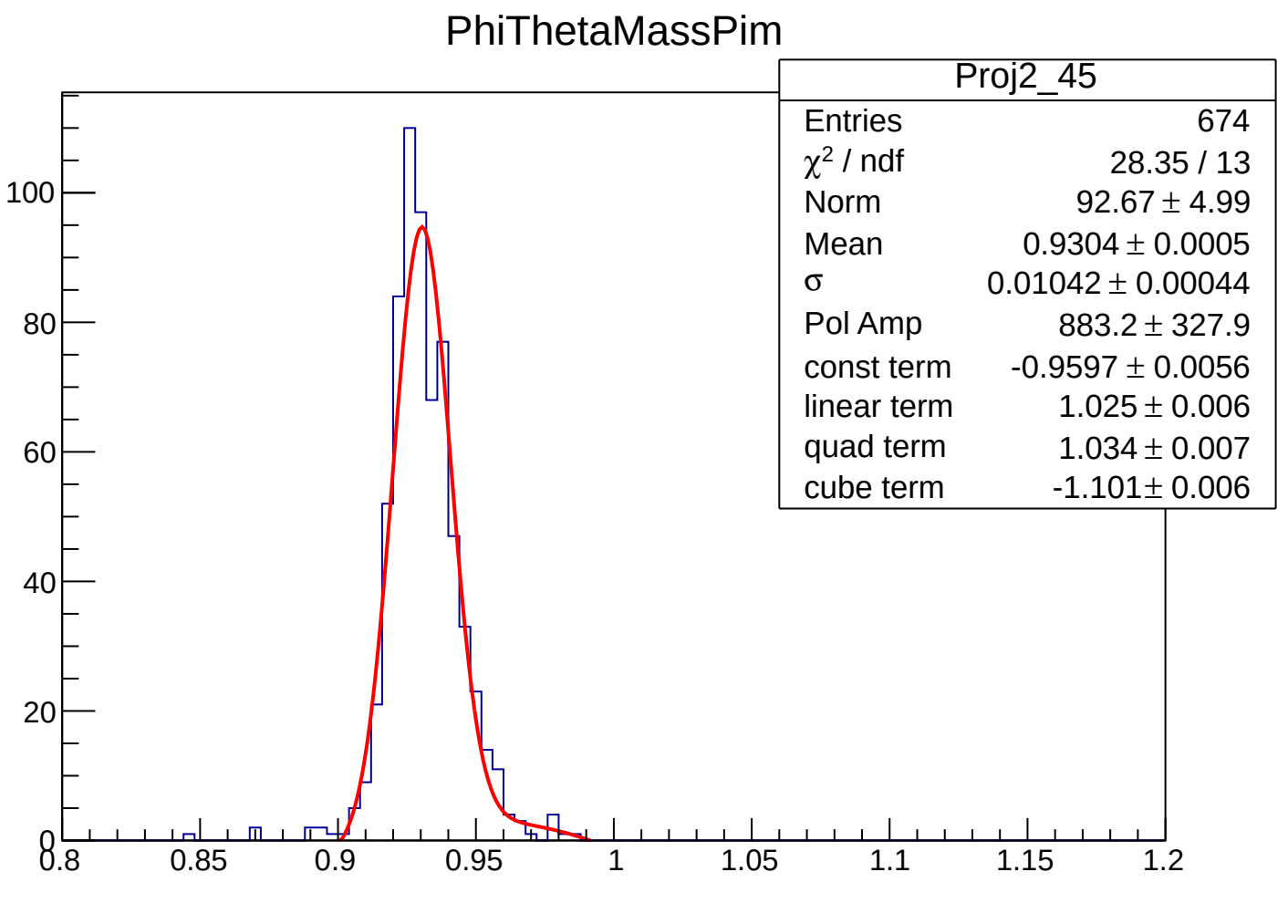

PhiThetaMassPim
Proj2_40
Entries 1071
χ² / ndf 31.53 / 11
Norm 152.8 ± 6.5
Mean 0.9308 ± 0.0004
σ 0.01019 ± 0.00040
Pol Amp 364.9 ± 0.5
const term -0.3822 ± 0.0914
linear term 0.4096 ± 0.0746
quad term 0.4173 ± 0.0847
cube term -0.4369 ± 0.0775
160
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

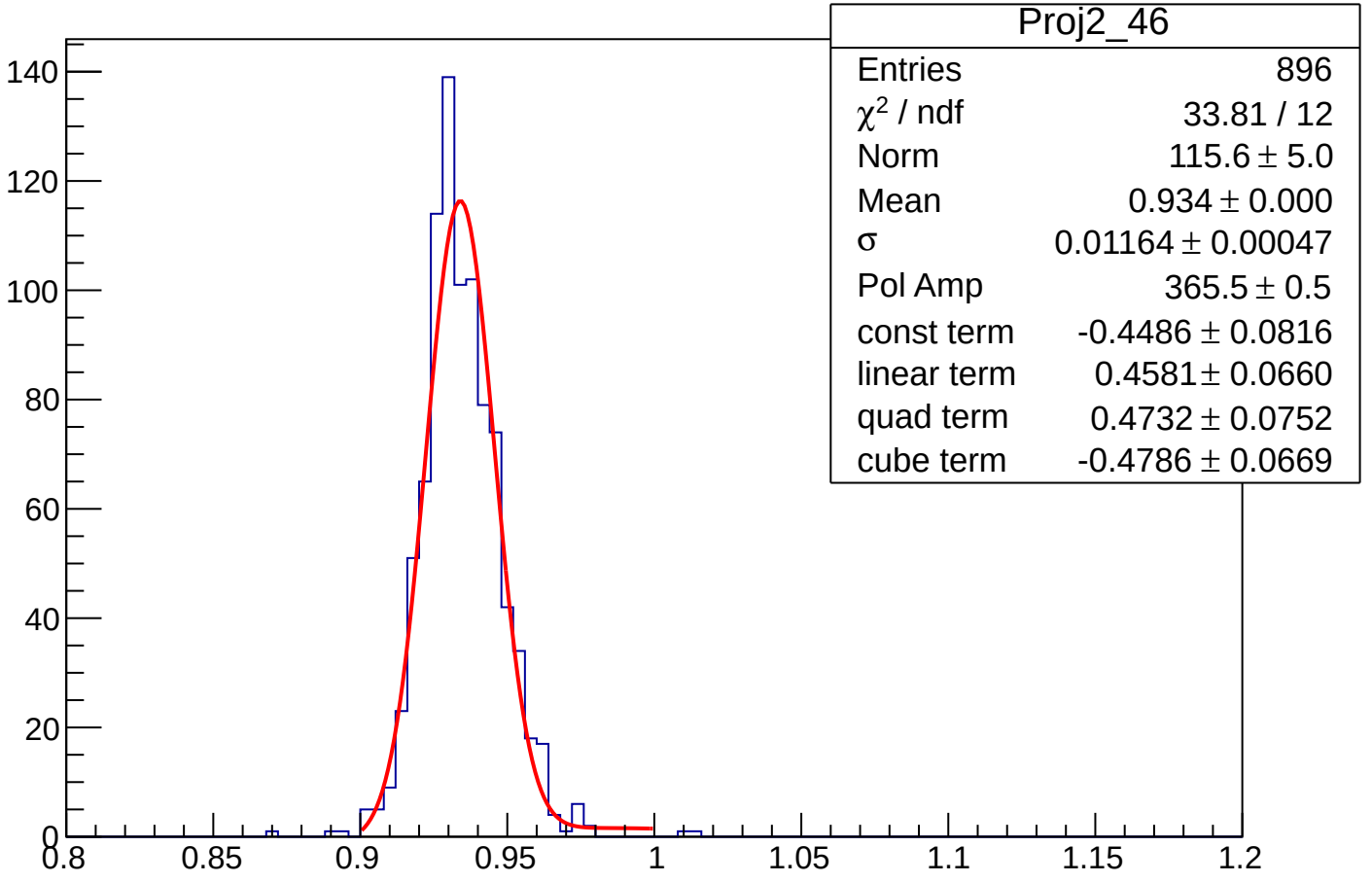

PhiThetaMassPim
Proj2_41
Entries 611
χ² / ndf 28.77 / 11
Norm 92.92 ± 5.91
Mean 0.9277 ± 0.0005
σ 0.0087 ± 0.0005
Pol Amp 368 ± 113.1
const term -2.91 ± 0.02
linear term 3.136 ± 0.018
quad term 3.165 ± 0.019
cube term -3.395 ± 0.018
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

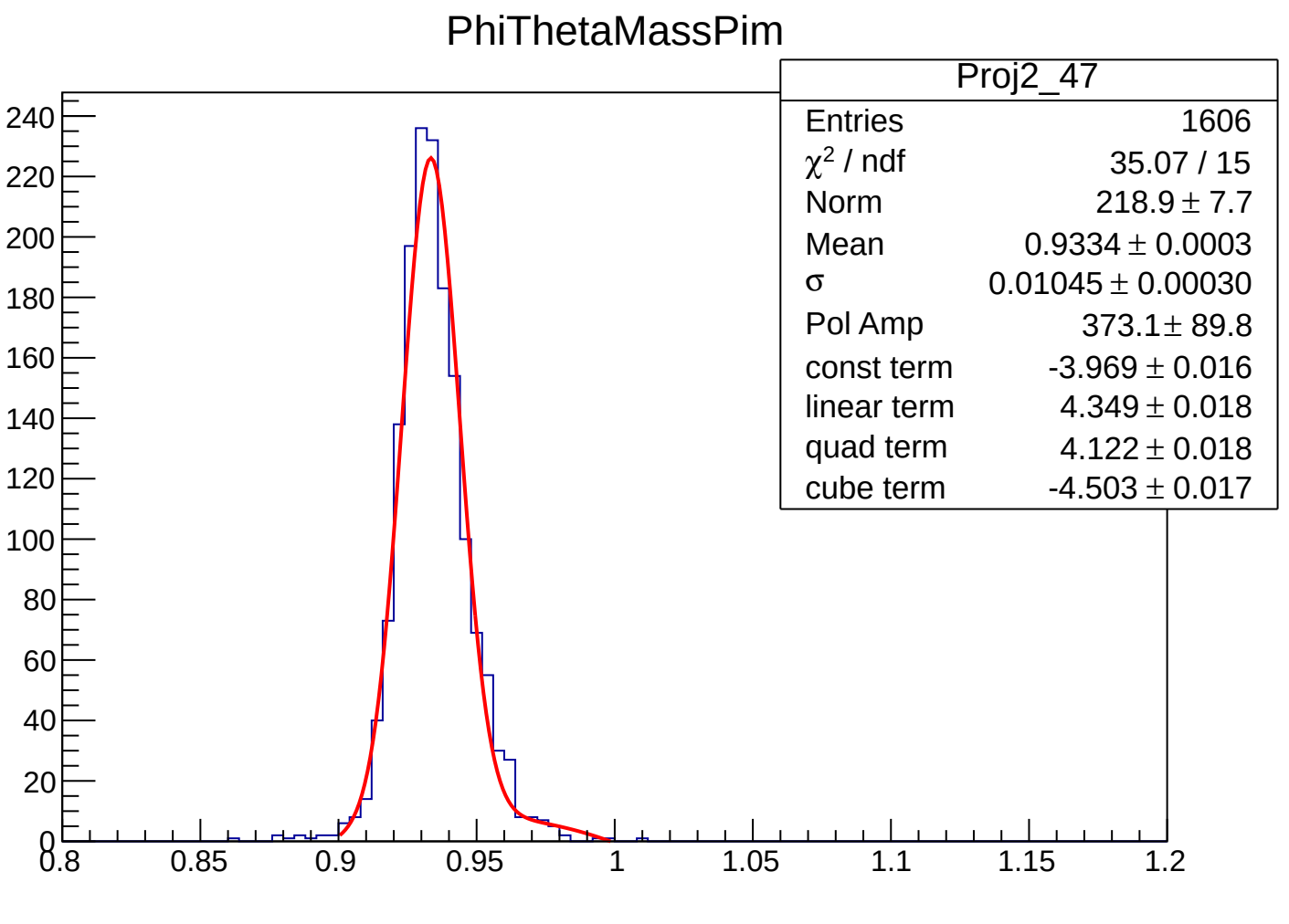

PhiThetaMassPim
Proj2_42
Entries 849
χ² / ndf 19.56 / 13
Norm 92.25 ± 4.61
Mean 0.9345 ± 0.0006
σ 0.01227 ± 0.00064
Pol Amp 367.6 ± 0.4
const term -0.3023 ± 0.0753
linear term 0.4604 ± 0.0402
quad term 0.3782 ± 0.0550
cube term -0.5415 ± 0.0391
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

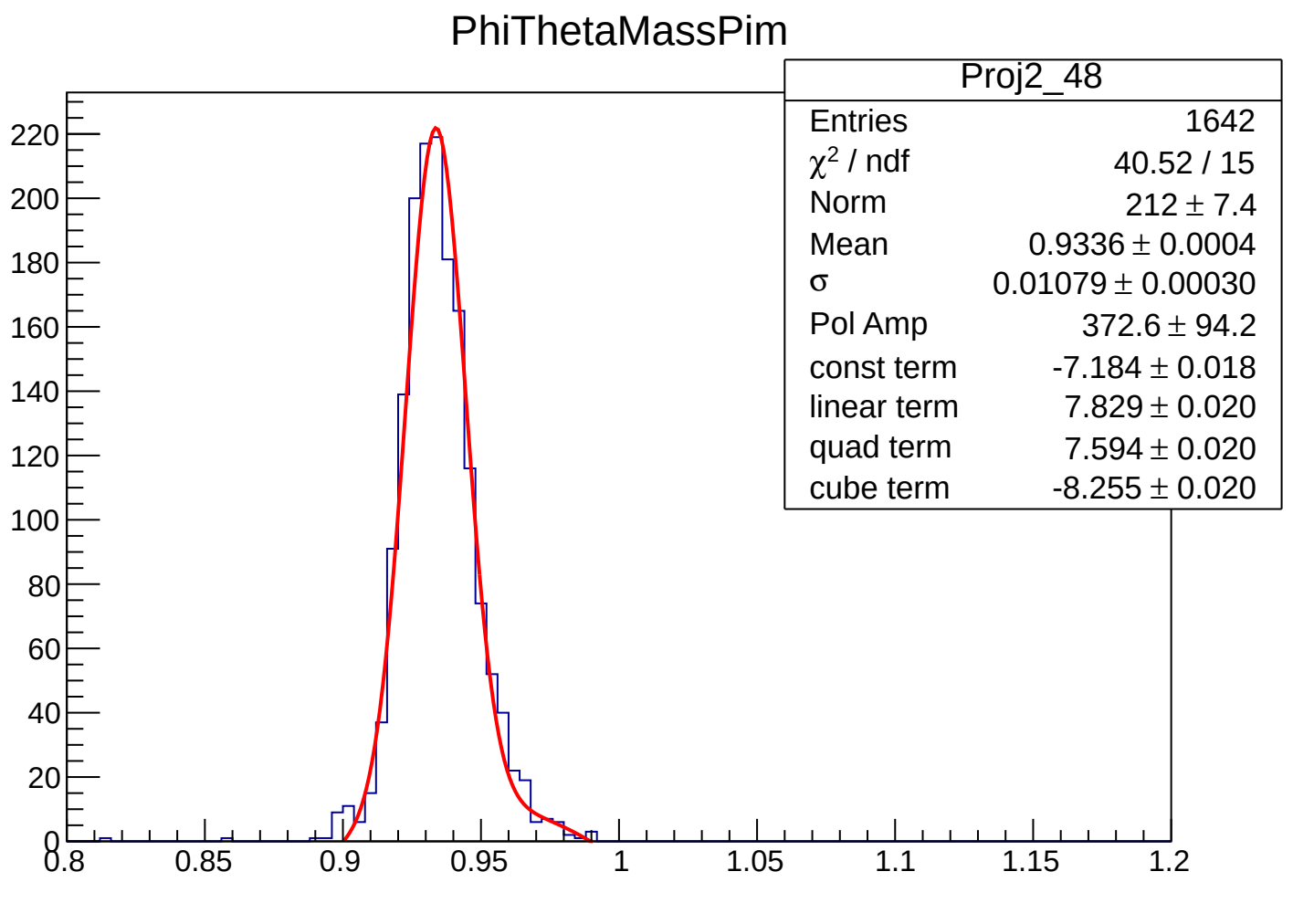

PhiThetaMassPim
Proj2_43
Entries 1554
χ² / ndf 10.24 / 16
Norm 198.4 ± 6.6
Mean 0.9343 ± 0.0003
σ 0.01181 ± 0.00036
Pol Amp 373.2 ± 0.1
const term -0.02246 ± 0.03301
linear term 0.06955 ± 0.00752
quad term 0.04383 ± 0.01412
cube term -0.08918 ± 0.02720
0
20
40
60
80
100
120
140
160
180
200
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

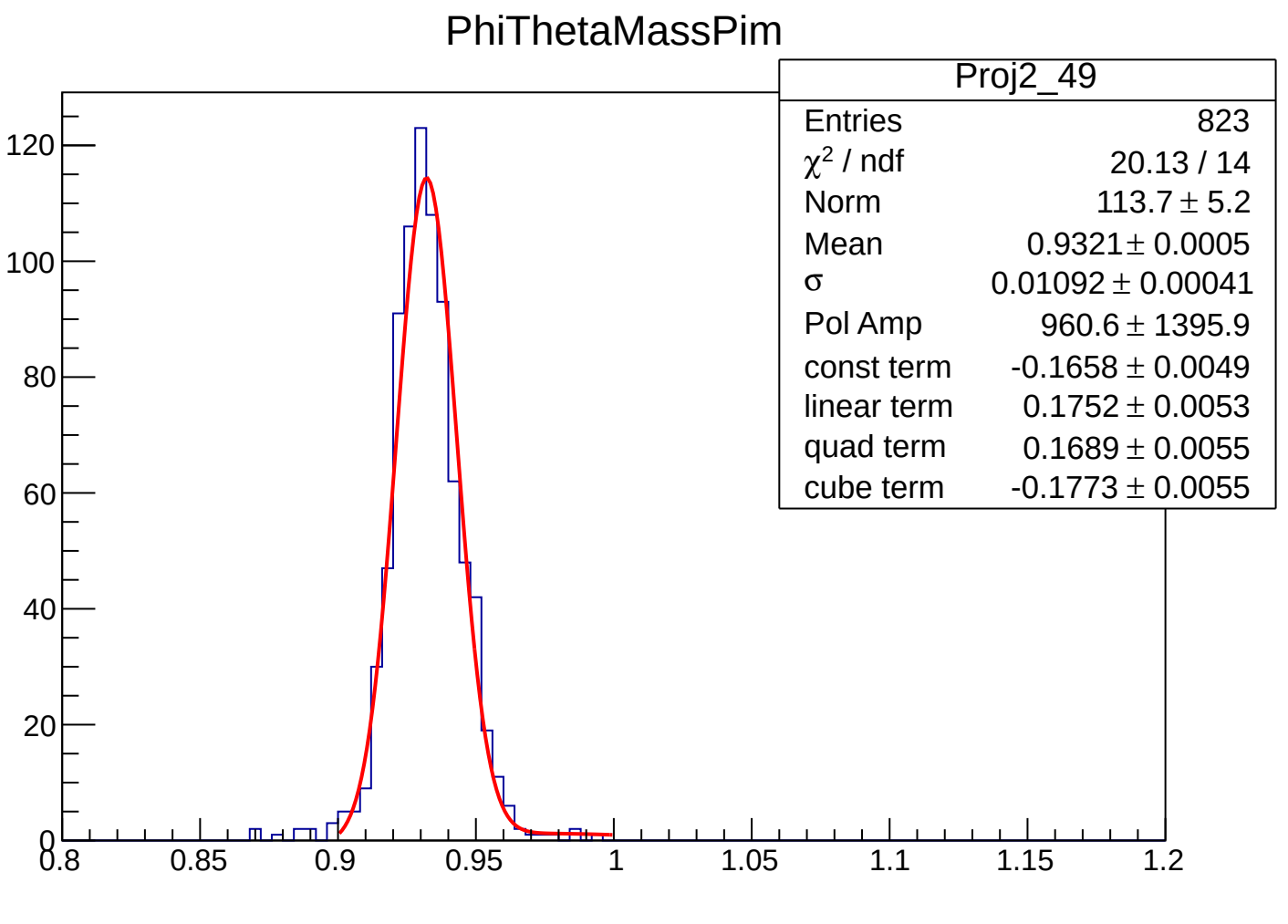

PhiThetaMassPim
Proj2_44
Entries 1668
χ² / ndf 60.68 / 17
Norm 223.8 ± 7.5
Mean 0.9326 ± 0.0003
σ 0.01115 ± 0.00028
Pol Amp 373.9 ± 118.4
const term -2.776 ± 0.013
linear term 2.995 ± 0.014
quad term 2.848 ± 0.014
cube term -3.068 ± 0.014
240
220
200
180
160
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

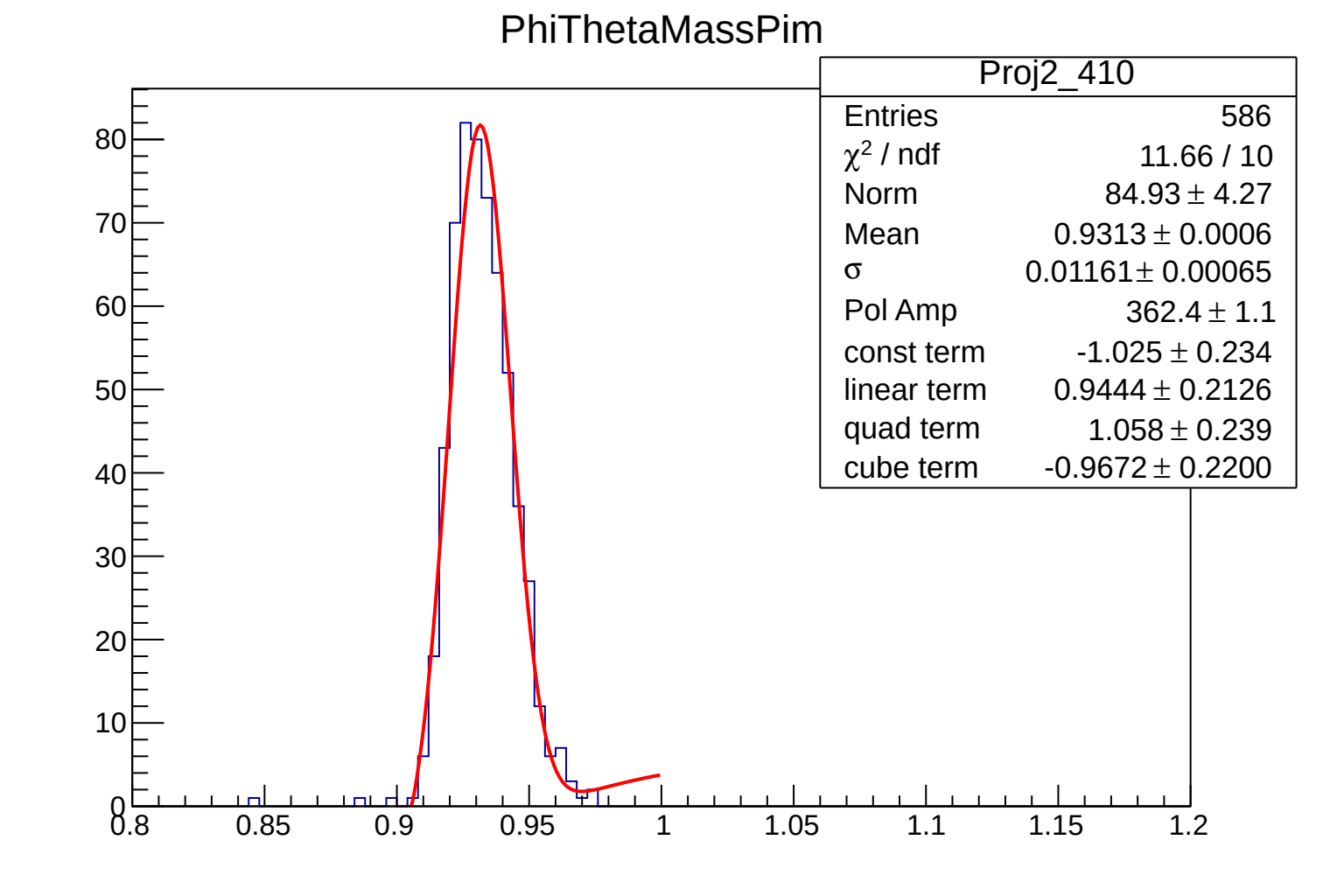

PhiThetaMassPim
Proj2_45
Entries 674
χ² / ndf 28.35 / 13
Norm 92.67 ± 4.99
Mean 0.9304 ± 0.0005
σ 0.01042 ± 0.00044
Pol Amp 883.2 ± 327.9
const term -0.9597 ± 0.0056
linear term 1.025 ± 0.006
quad term 1.034 ± 0.007
cube term -1.101 ± 0.006
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

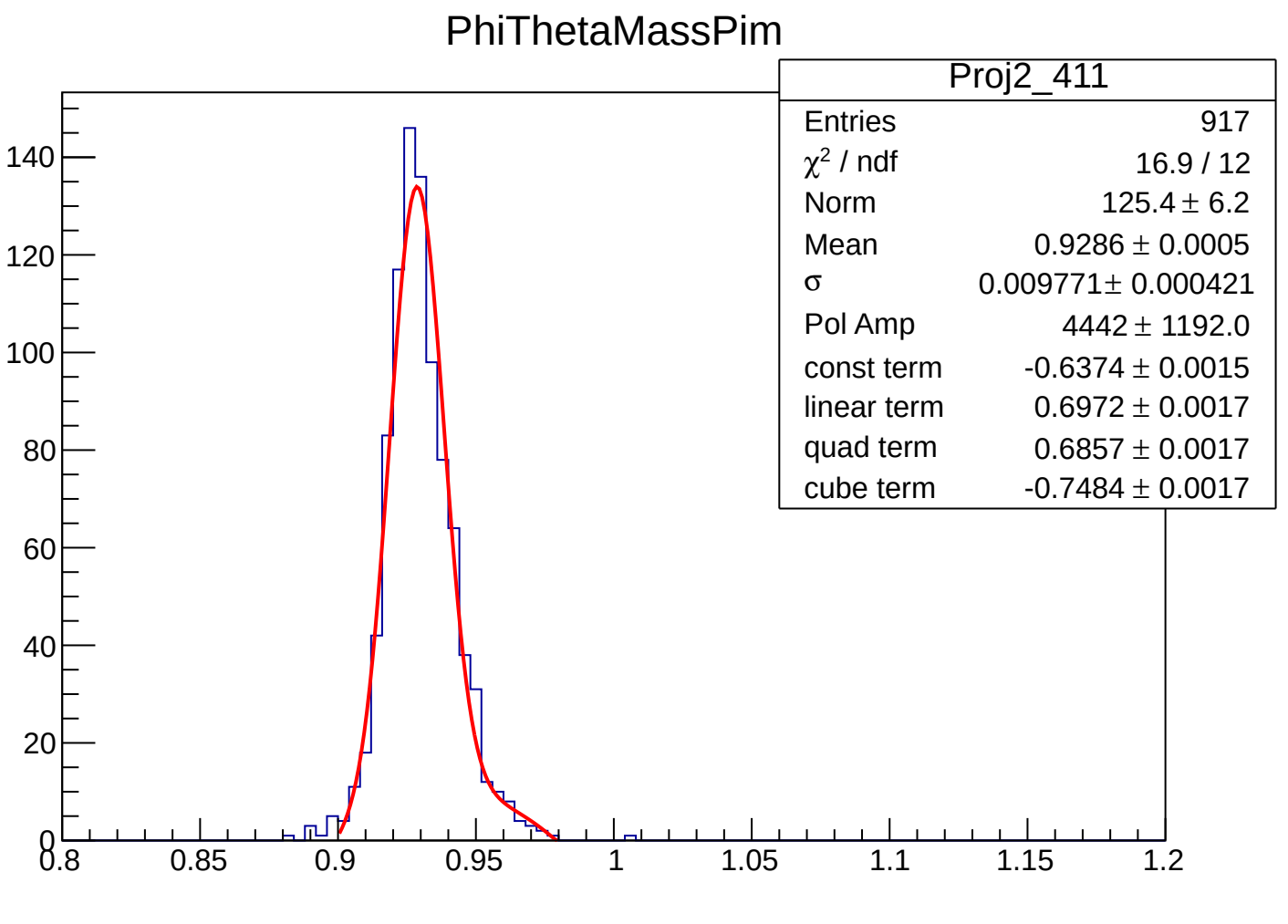

PhiThetaMassPim
Proj2_46
Entries 896
χ² / ndf 33.81 / 12
Norm 115.6 ± 5.0
Mean 0.934 ± 0.000
σ 0.01164 ± 0.00047
Pol Amp 365.5 ± 0.5
const term -0.4486 ± 0.0816
linear term 0.4581 ± 0.0660
quad term 0.4732 ± 0.0752
cube term -0.4786 ± 0.0669
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

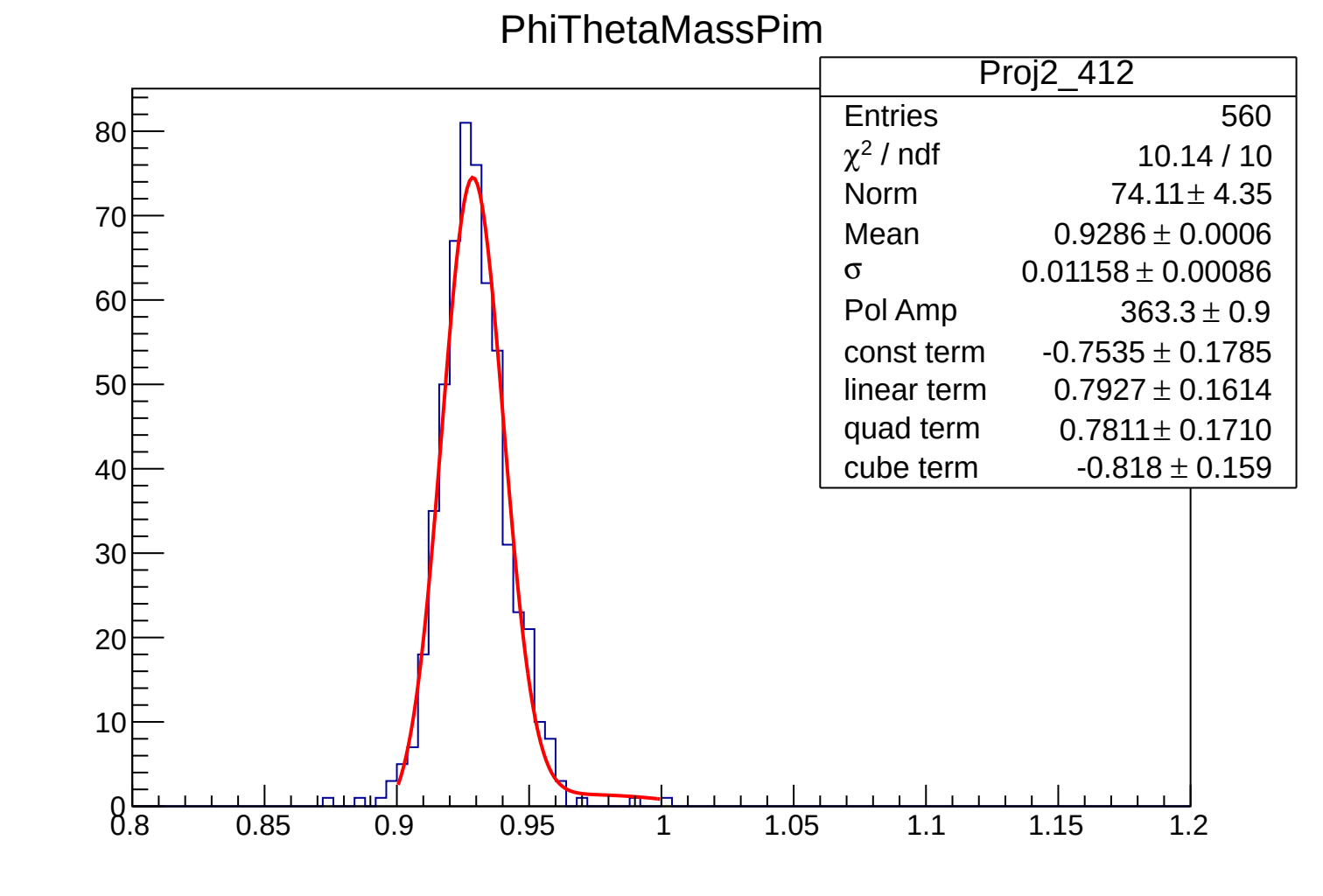

PhiThetaMassPim
Proj2_47
Entries 1606
χ² / ndf 35.07 / 15
Norm 218.9 ± 7.7
Mean 0.9334 ± 0.0003
σ 0.01045 ± 0.00030
Pol Amp 373.1 ± 89.8
const term -3.969 ± 0.016
linear term 4.349 ± 0.018
quad term 4.122 ± 0.018
cube term -4.503 ± 0.017
240
220
200
180
160
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

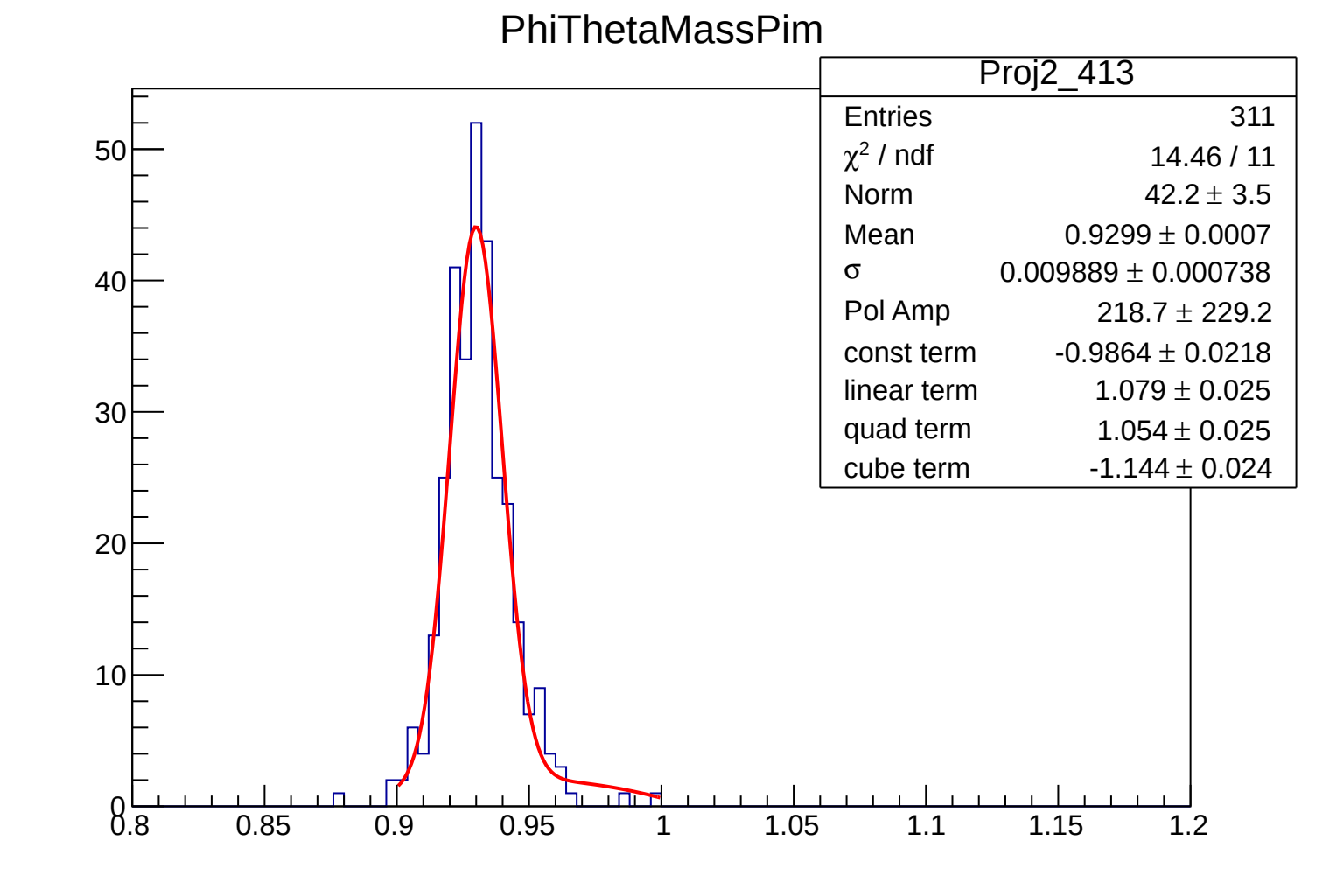

PhiThetaMassPim
Proj2_48
Entries 1642
χ² / ndf 40.52 / 15
Norm 212 ± 7.4
Mean 0.9336 ± 0.0004
σ 0.01079 ± 0.00030
Pol Amp 372.6 ± 94.2
const term -7.184 ± 0.018
linear term 7.829 ± 0.020
quad term 7.594 ± 0.020
cube term -8.255 ± 0.020
0
20
40
60
80
100
120
140
160
180
200
220
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

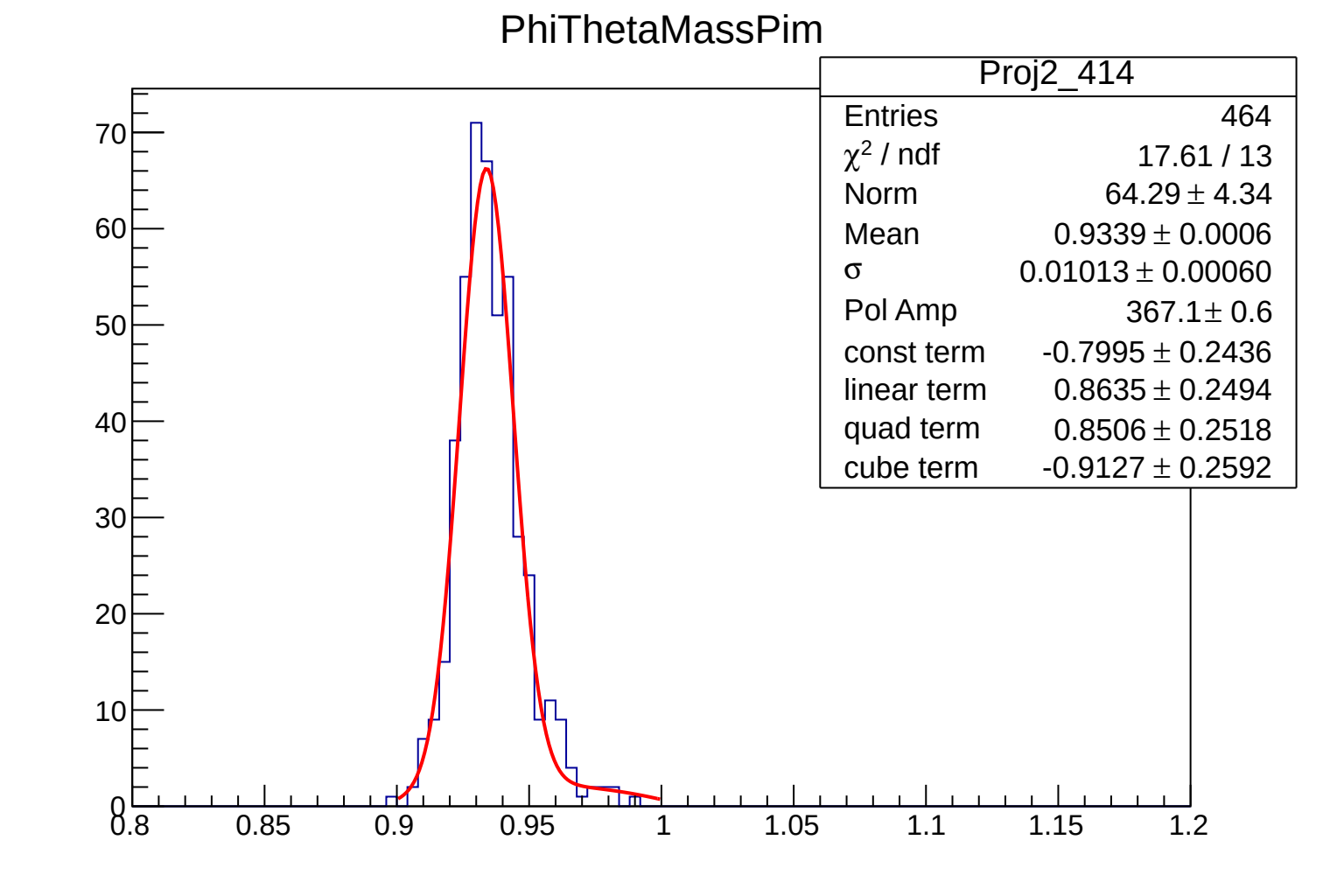

PhiThetaMassPim
Proj2_49
Entries 823
χ² / ndf 20.13 / 14
Norm 113.7 ± 5.2
Mean 0.9321 ± 0.0005
σ 0.01092 ± 0.00041
Pol Amp 960.6 ± 1395.9
const term -0.1658 ± 0.0049
linear term 0.1752 ± 0.0053
quad term 0.1689 ± 0.0055
cube term -0.1773 ± 0.0055
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

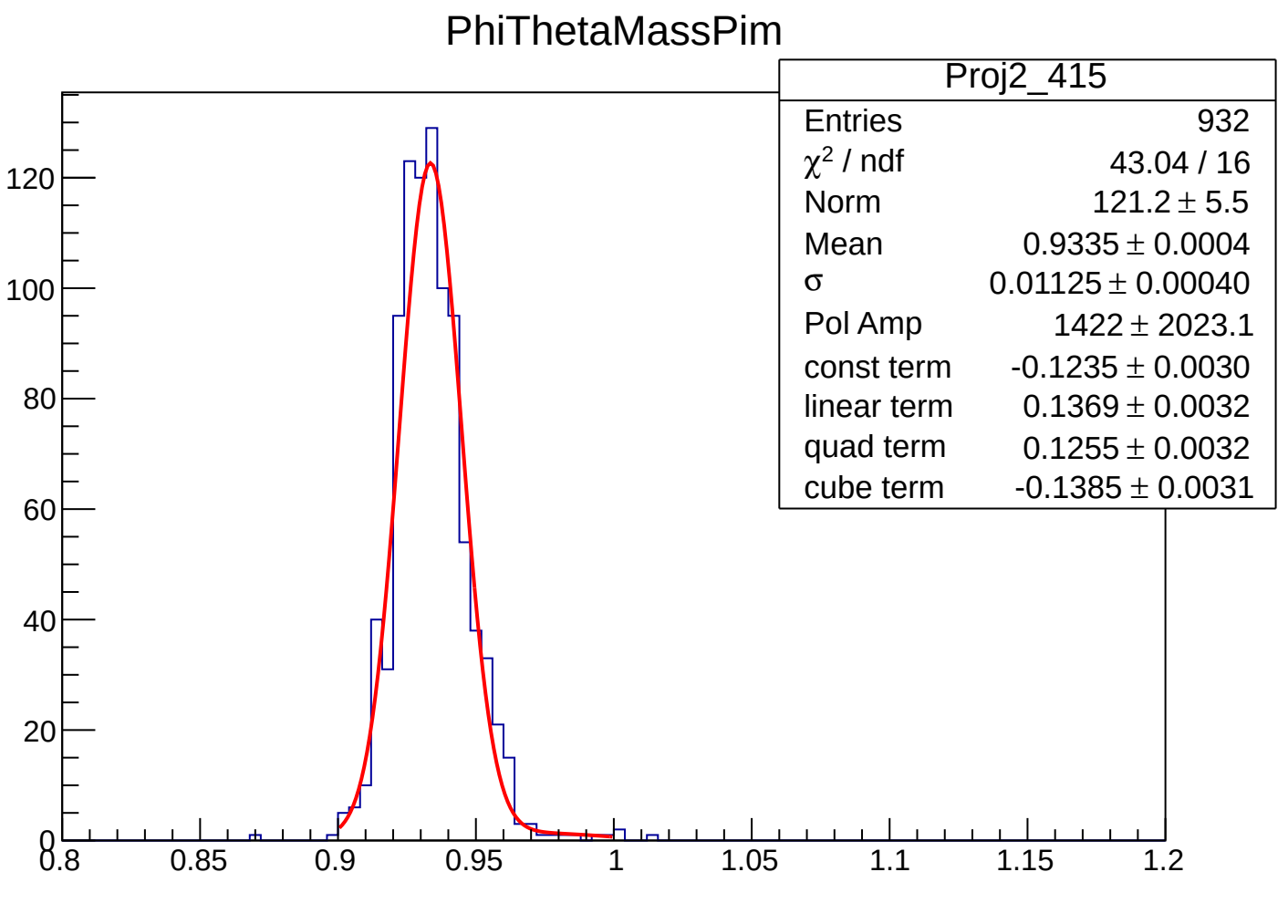

PhiThetaMassPim
Proj2_410
Entries 586
χ² / ndf 11.66 / 10
Norm 84.93 ± 4.27
Mean 0.9313 ± 0.0006
σ 0.01161 ± 0.00065
Pol Amp 362.4 ± 1.1
const term -1.025 ± 0.234
linear term 0.9444 ± 0.2126
quad term 1.058 ± 0.239
cube term -0.9672 ± 0.2200
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

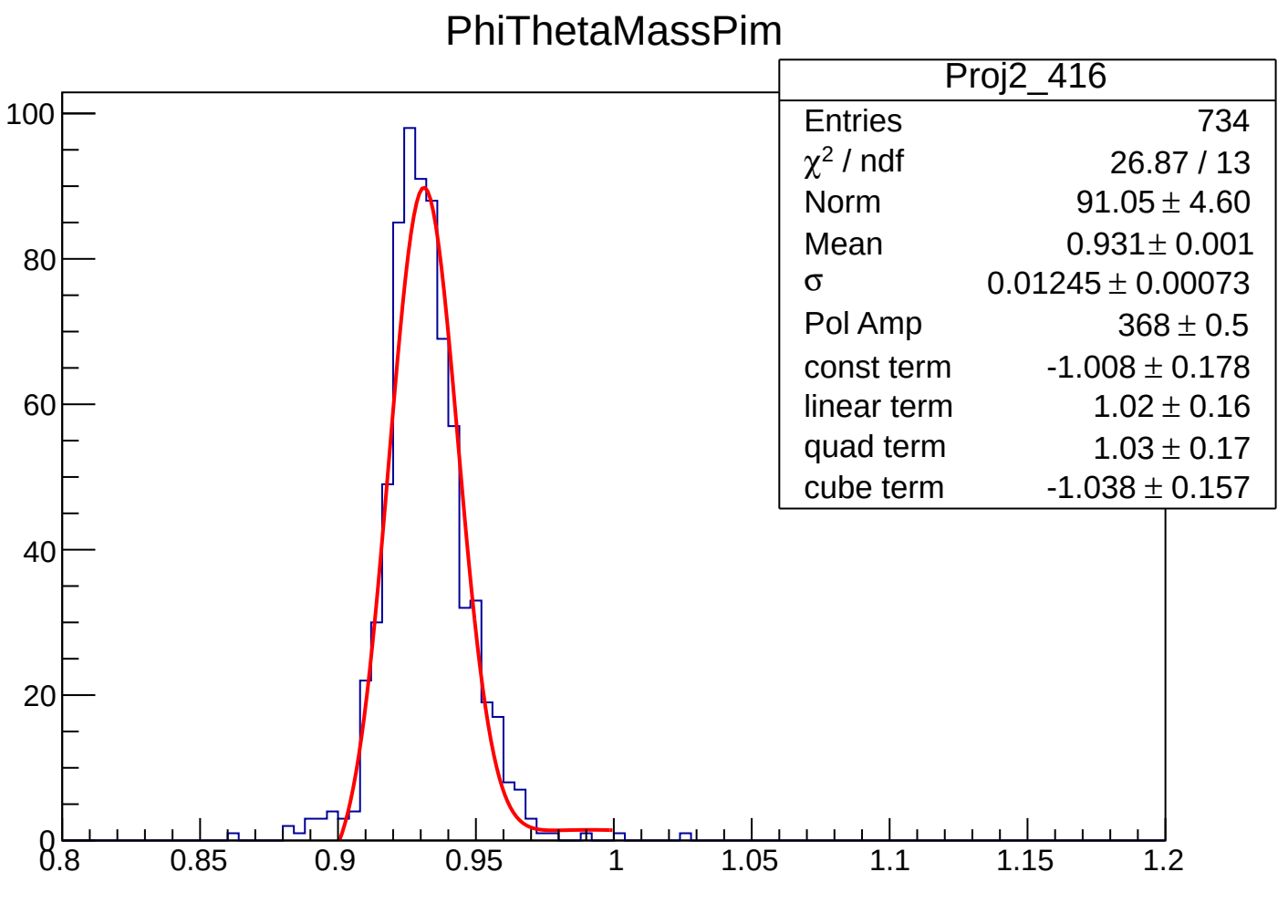

PhiThetaMassPim
Proj2_411
Entries 917
χ² / ndf 16.9 / 12
Norm 125.4 ± 6.2
Mean 0.9286 ± 0.0005
σ 0.009771 ± 0.000421
Pol Amp 4442 ± 1192.0
const term -0.6374 ± 0.0015
linear term 0.6972 ± 0.0017
quad term 0.6857 ± 0.0017
cube term -0.7484 ± 0.0017
0
20
40
60
80
100
120
140
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

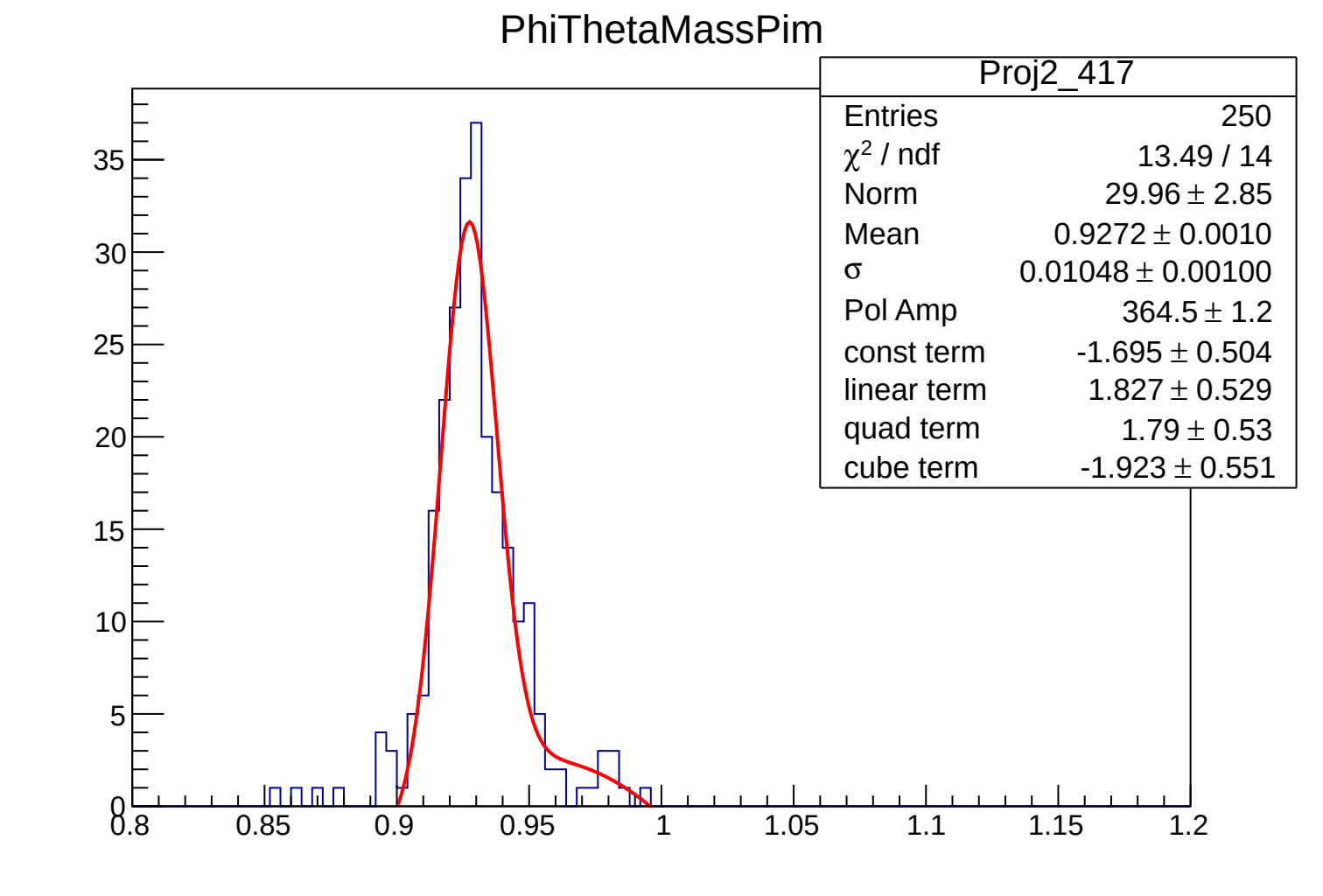

PhiThetaMassPim
Proj2_412
Entries 560
χ² / ndf 10.14 / 10
Norm 74.11 ± 4.35
Mean 0.9286 ± 0.0006
σ 0.01158 ± 0.00086
Pol Amp 363.3 ± 0.9
const term -0.7535 ± 0.1785
linear term 0.7927 ± 0.1614
quad term 0.7811 ± 0.1710
cube term -0.818 ± 0.159
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

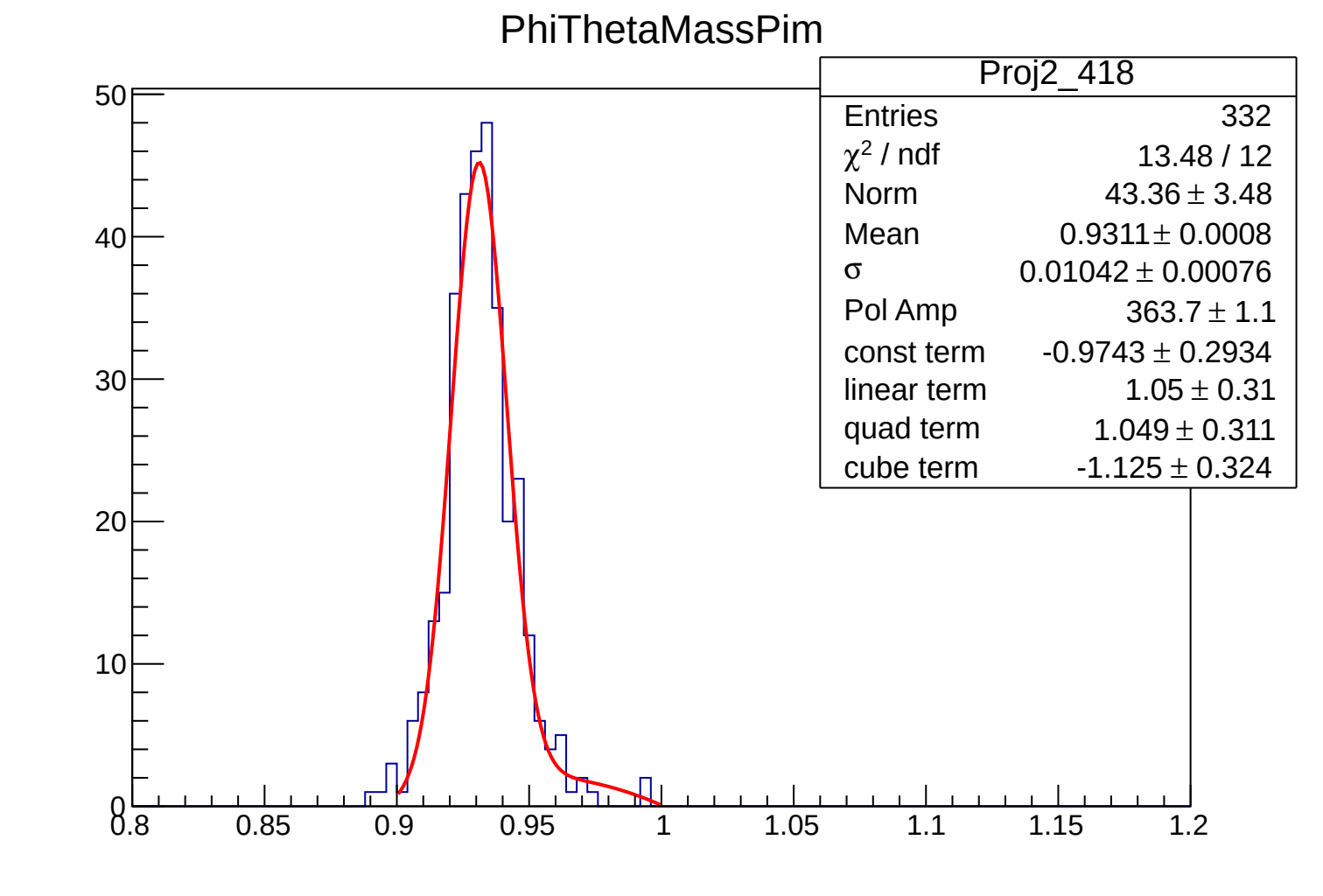

PhiThetaMassPim
Proj2_413
Entries 311
χ² / ndf 14.46 / 11
Norm 42.2 ± 3.5
Mean 0.9299 ± 0.0007
σ 0.009889 ± 0.000738
Pol Amp 218.7 ± 229.2
const term -0.9864 ± 0.0218
linear term 1.079 ± 0.025
quad term 1.054 ± 0.025
cube term -1.144 ± 0.024
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

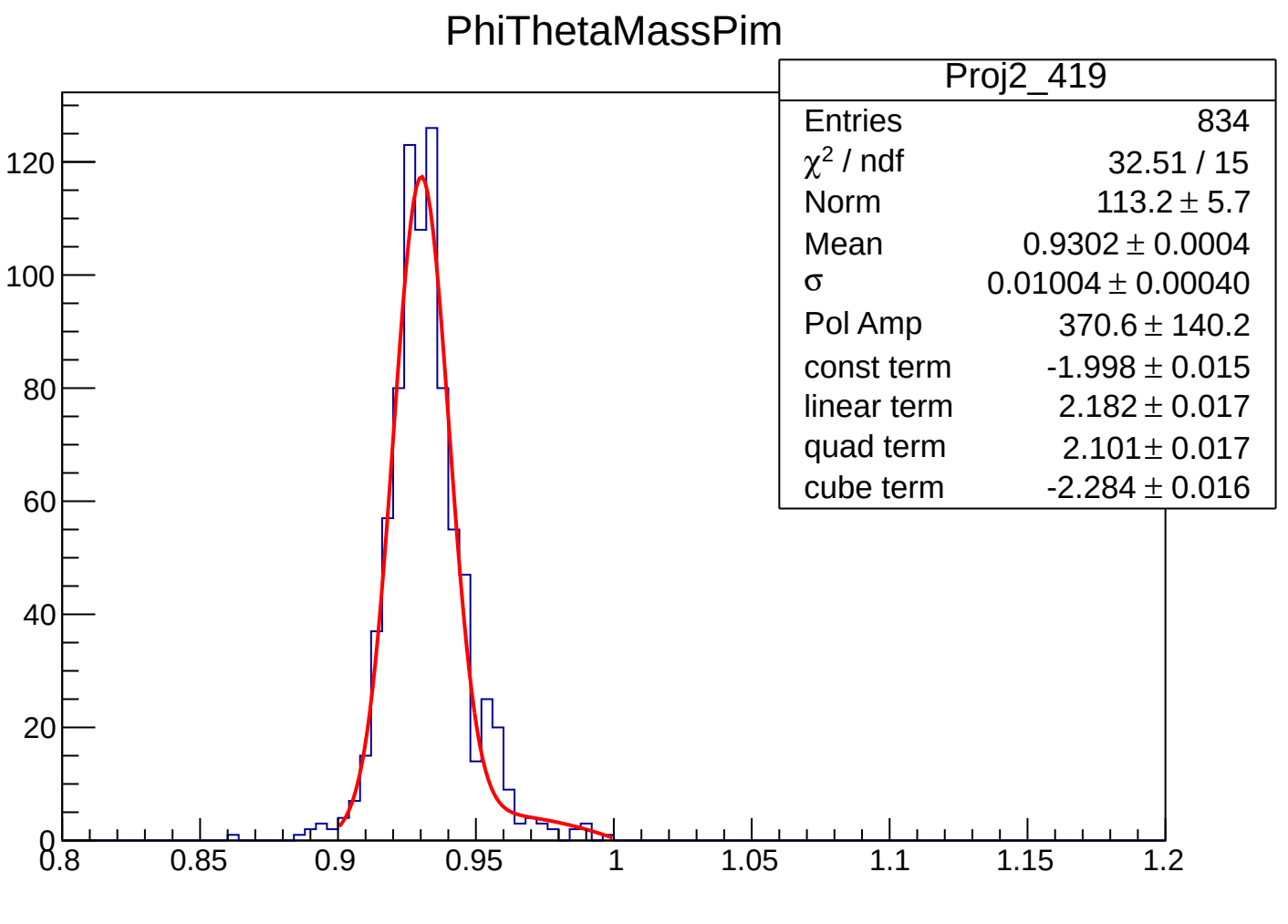

PhiThetaMassPim
Proj2_414
Entries 464
χ² / ndf 17.61 / 13
Norm 64.29 ± 4.34
Mean 0.9339 ± 0.0006
σ 0.01013 ± 0.00060
Pol Amp 367.1 ± 0.6
const term -0.7995 ± 0.2436
linear term 0.8635 ± 0.2494
quad term 0.8506 ± 0.2518
cube term -0.9127 ± 0.2592
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

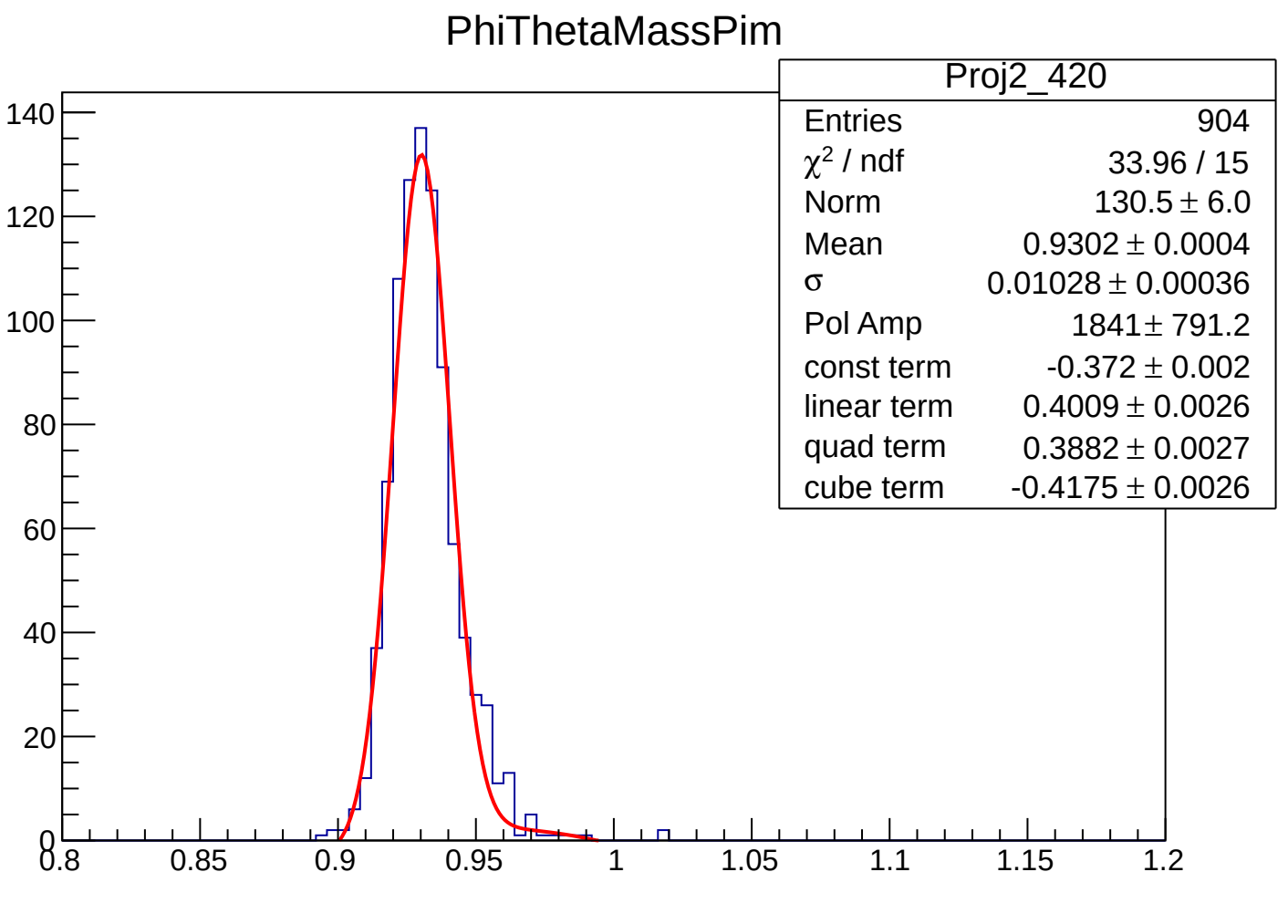

PhiThetaMassPim
Proj2_415
Entries 932
χ² / ndf 43.04 / 16
Norm 121.2 ± 5.5
Mean 0.9335 ± 0.0004
σ 0.01125 ± 0.00040
Pol Amp 1422 ± 2023.1
const term -0.1235 ± 0.0030
linear term 0.1369 ± 0.0032
quad term 0.1255 ± 0.0032
cube term -0.1385 ± 0.0031
0
20
40
60
80
100
120
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

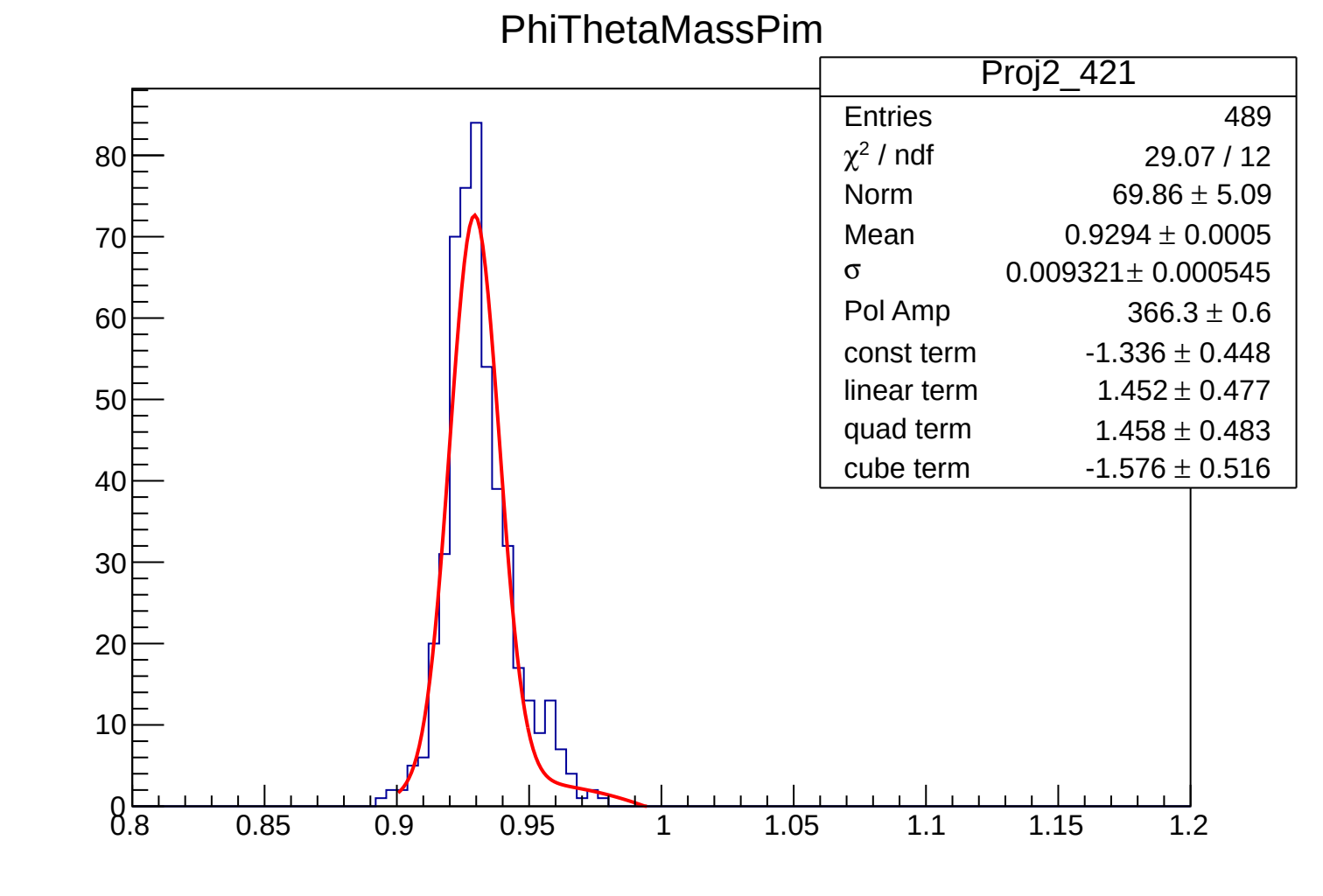

PhiThetaMassPim
Proj2_416
Entries 734
χ² / ndf 26.87 / 13
Norm 91.05 ± 4.60
Mean 0.931 ± 0.001
σ 0.01245 ± 0.00073
Pol Amp 368 ± 0.5
const term -1.008 ± 0.178
linear term 1.02 ± 0.16
quad term 1.03 ± 0.17
cube term -1.038 ± 0.157
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

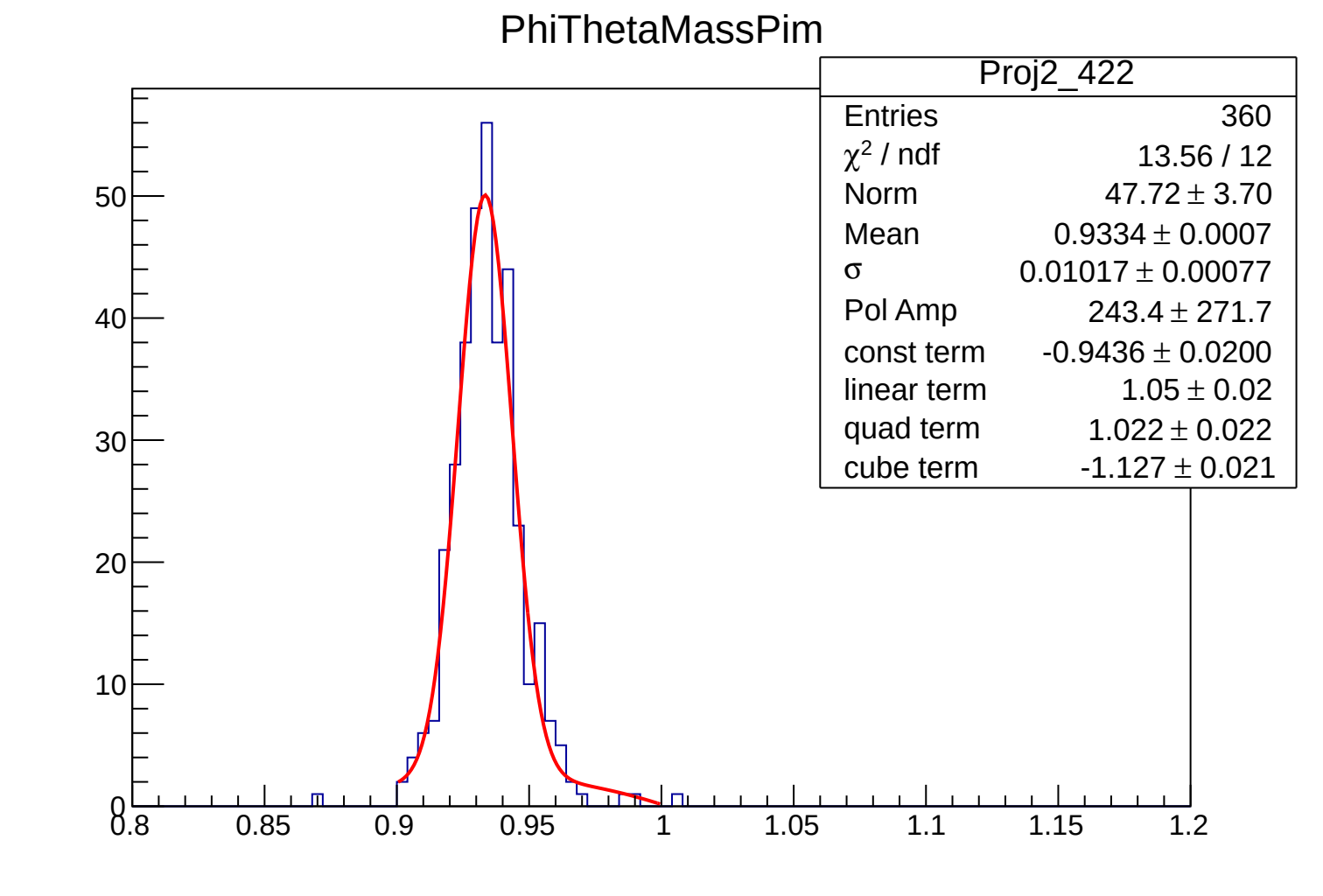

PhiThetaMassPim
Proj2_417
Entries 250
χ² / ndf 13.49 / 14
Norm 29.96 ± 2.85
Mean 0.9272 ± 0.0010
σ 0.01048 ± 0.00100
Pol Amp 364.5 ± 1.2
const term -1.695 ± 0.504
linear term 1.827 ± 0.529
quad term 1.79 ± 0.53
cube term -1.923 ± 0.551
0
5
10
15
20
25
30
35
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

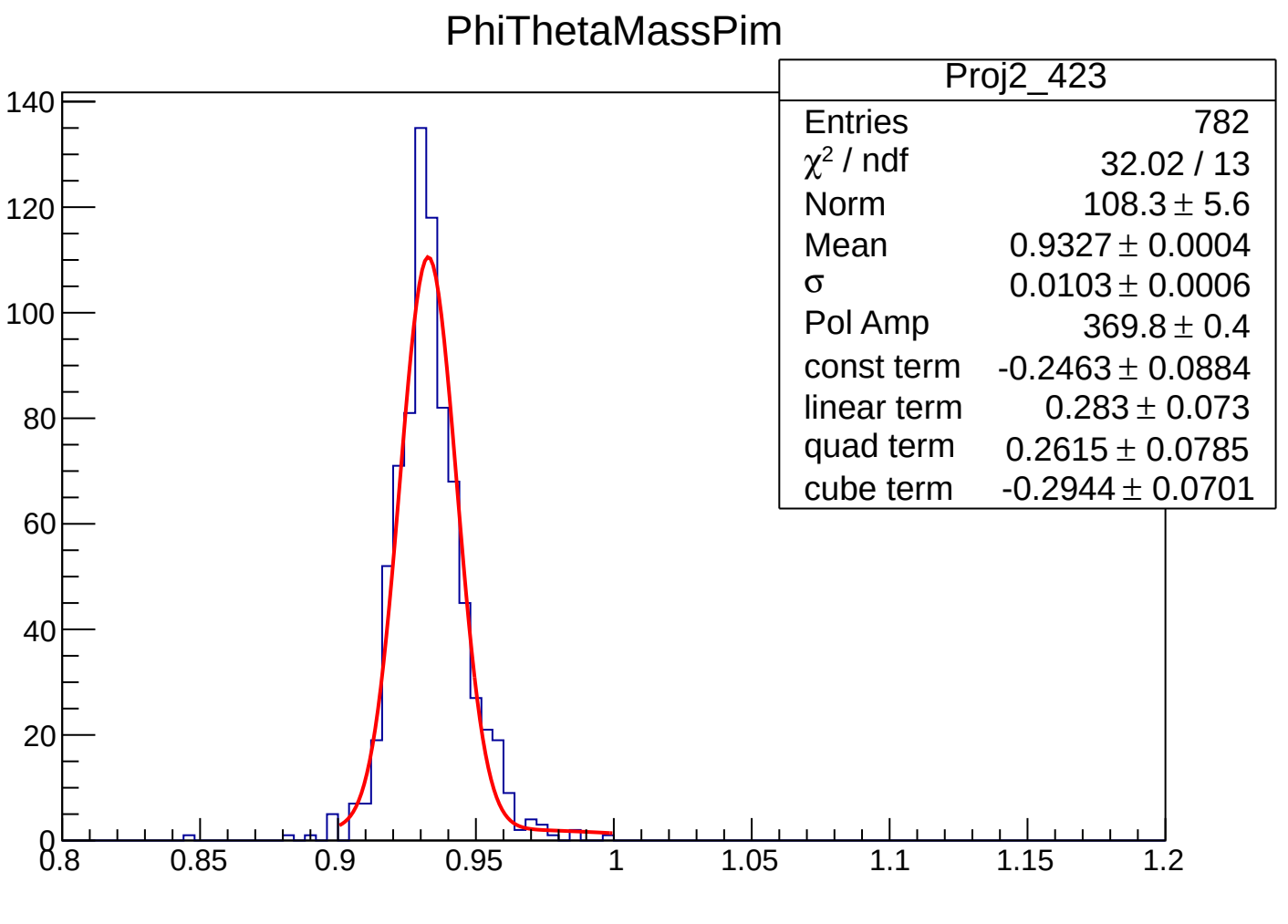

PhiThetaMassPim
Proj2_418
Entries 332
χ² / ndf 13.48 / 12
Norm 43.36 ± 3.48
Mean 0.9311 ± 0.0008
σ 0.01042 ± 0.00076
Pol Amp 363.7 ± 1.1
const term -0.9743 ± 0.2934
linear term 1.05 ± 0.31
quad term 1.049 ± 0.311
cube term -1.125 ± 0.324
50
40
30
20
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

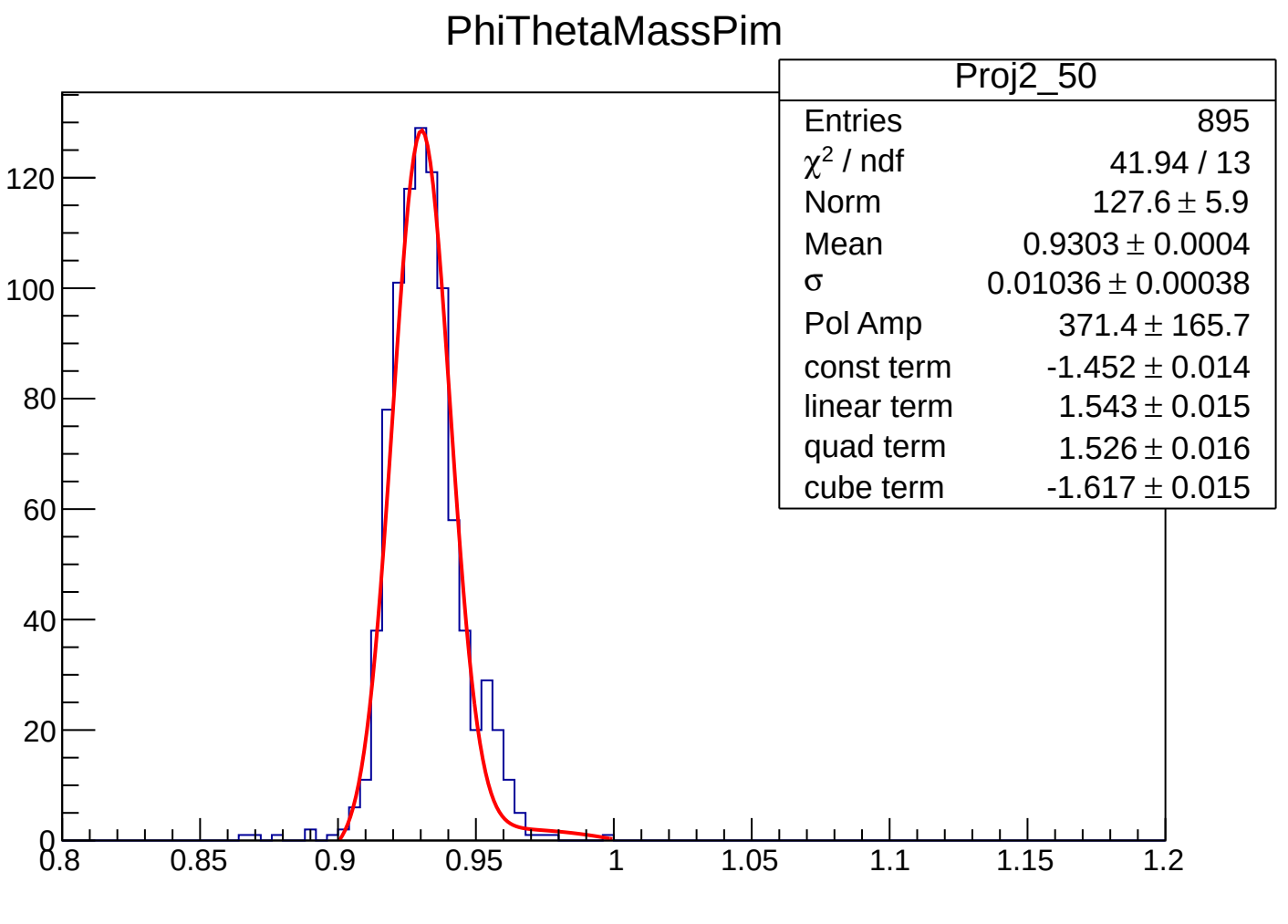

PhiThetaMassPim
Proj2_419
Entries 834
χ² / ndf 32.51 / 15
Norm 113.2 ± 5.7
Mean 0.9302 ± 0.0004
σ 0.01004 ± 0.00040
Pol Amp 370.6 ± 140.2
const term -1.998 ± 0.015
linear term 2.182 ± 0.017
quad term 2.101 ± 0.017
cube term -2.284 ± 0.016
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

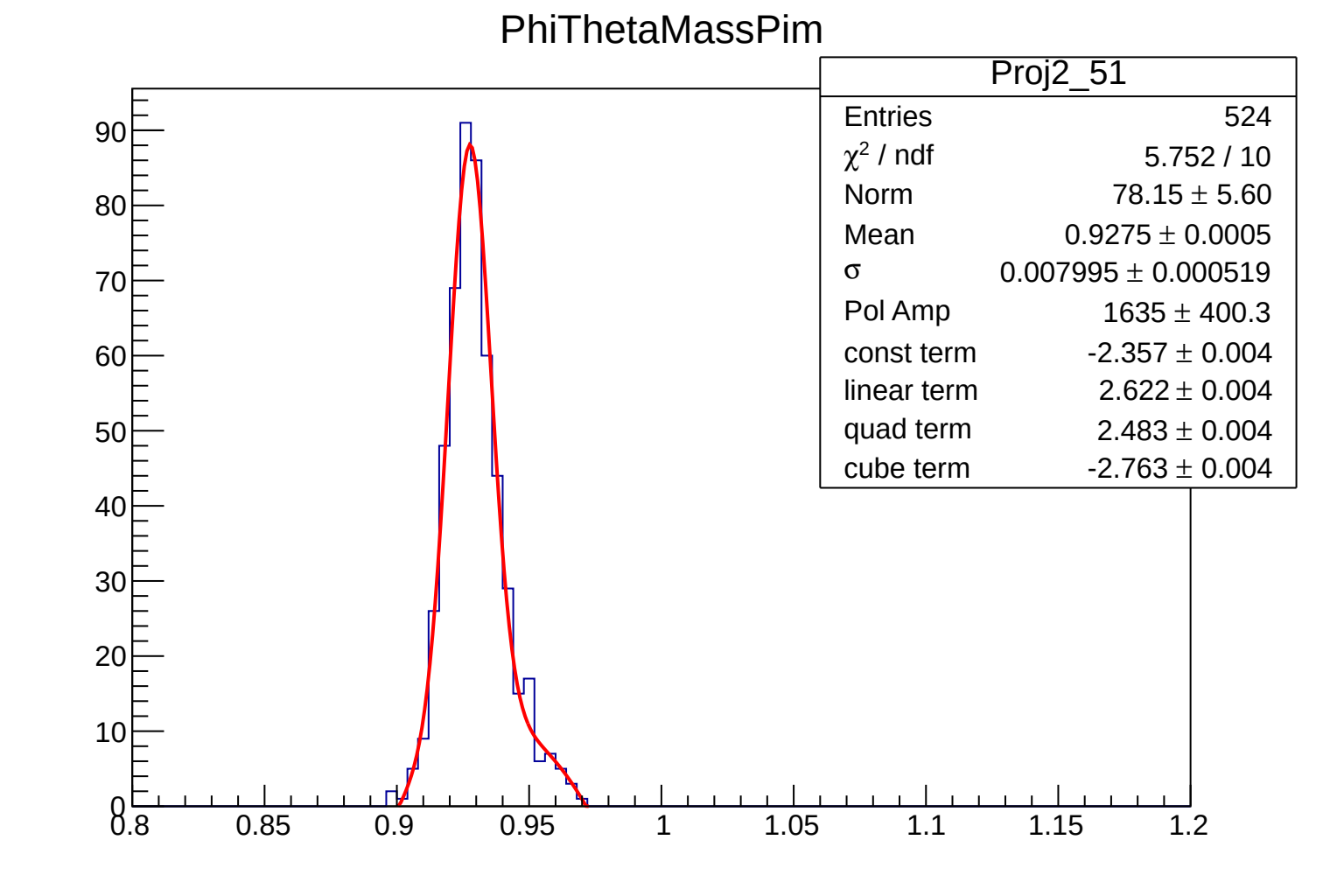

PhiThetaMassPim
Proj2_420
Entries 904
χ² / ndf 33.96 / 15
Norm 130.5 ± 6.0
Mean 0.9302 ± 0.0004
σ 0.01028 ± 0.00036
Pol Amp 1841 ± 791.2
const term -0.372 ± 0.002
linear term 0.4009 ± 0.0026
quad term 0.3882 ± 0.0027
cube term -0.4175 ± 0.0026
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

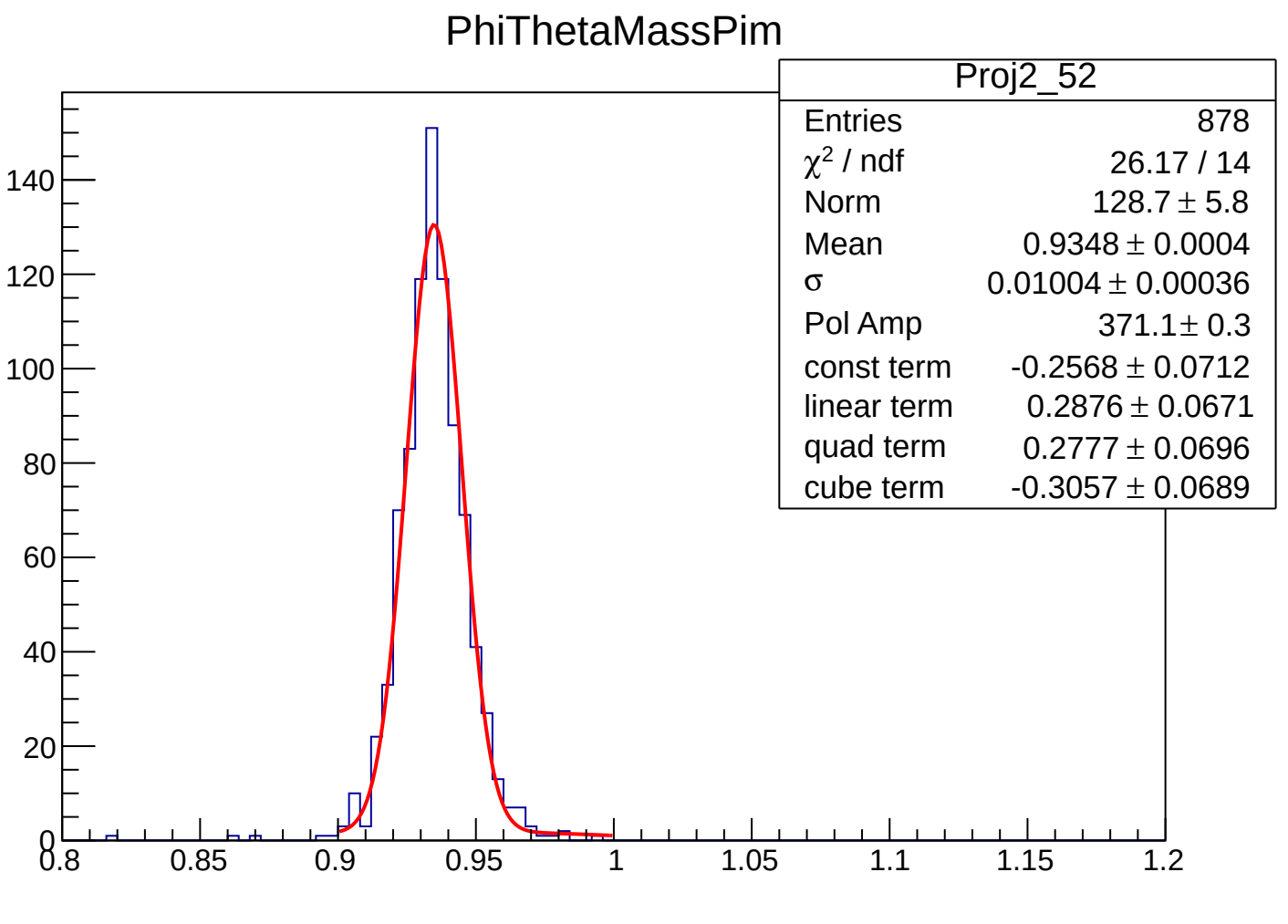

PhiThetaMassPim
Proj2_421
Entries 489
χ² / ndf 29.07 / 12
Norm 69.86 ± 5.09
Mean 0.9294 ± 0.0005
σ 0.009321± 0.000545
Pol Amp 366.3 ± 0.6
const term -1.336 ± 0.448
linear term 1.452 ± 0.477
quad term 1.458 ± 0.483
cube term -1.576 ± 0.516
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

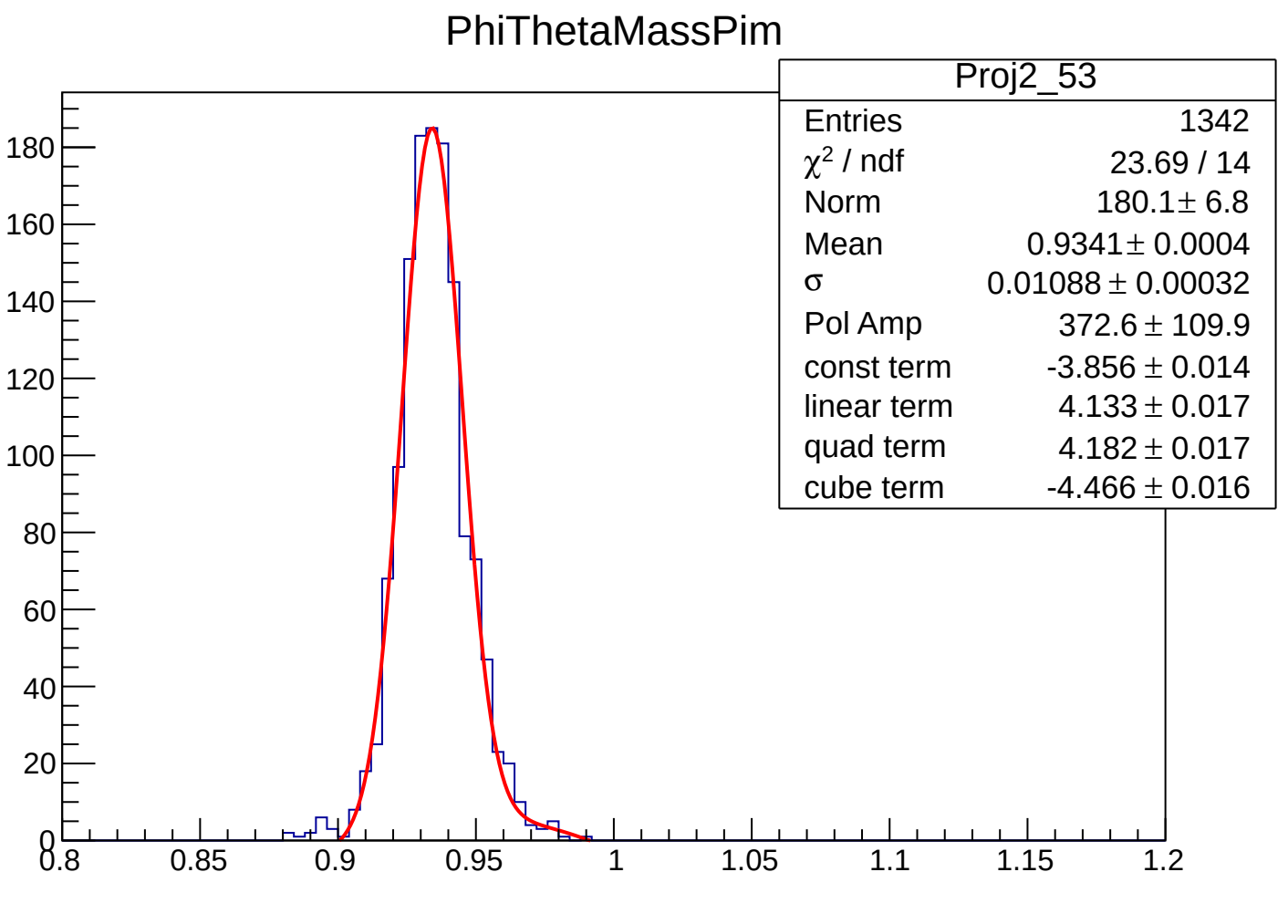

PhiThetaMassPim
Proj2_422
Entries 360
χ² / ndf 13.56 / 12
Norm 47.72 ± 3.70
Mean 0.9334 ± 0.0007
σ 0.01017 ± 0.00077
Pol Amp 243.4 ± 271.7
const term -0.9436 ± 0.0200
linear term 1.05 ± 0.02
quad term 1.022 ± 0.022
cube term -1.127 ± 0.021
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

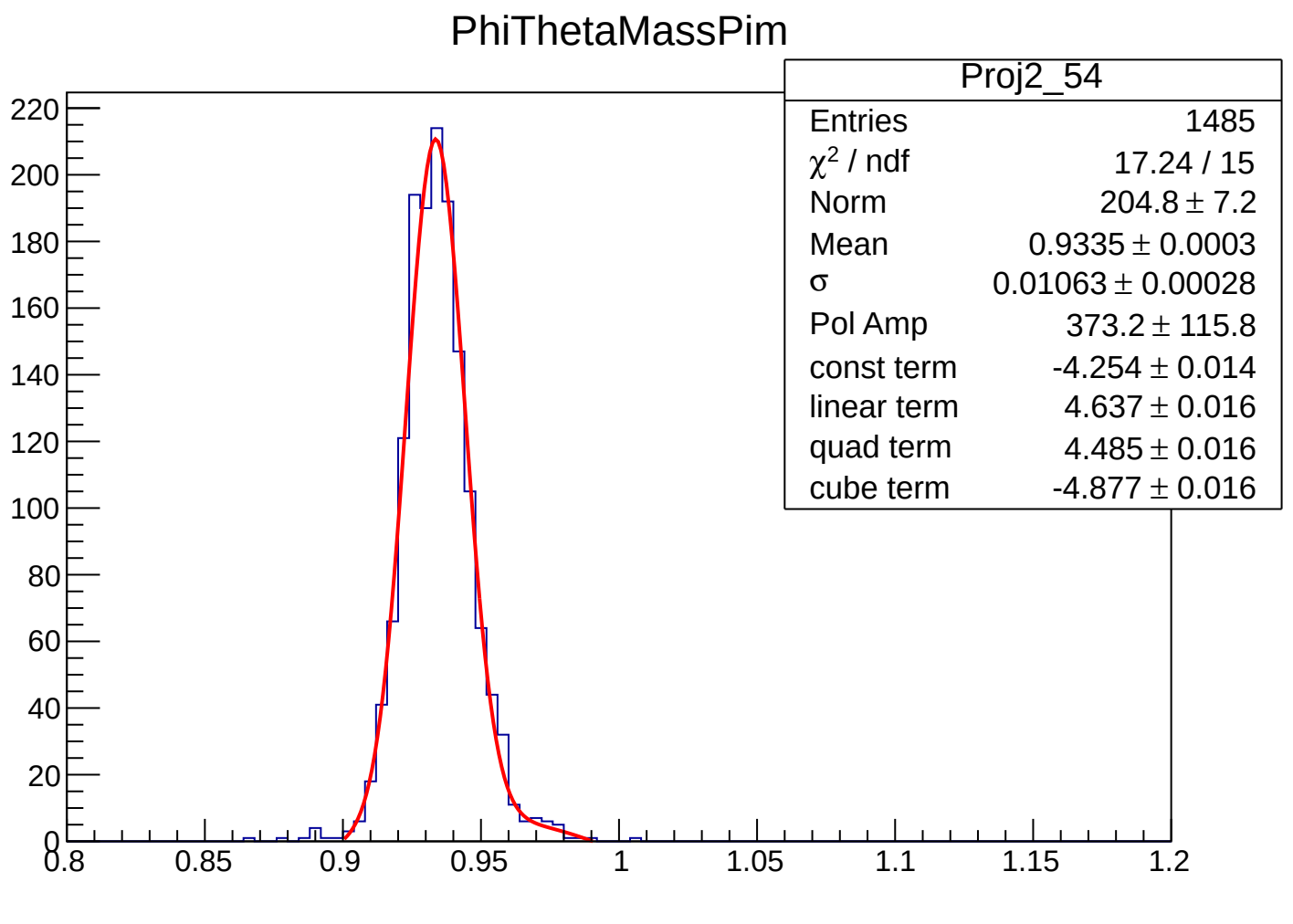

PhiThetaMassPim
Proj2_423
Entries 782
χ² / ndf 32.02 / 13
Norm 108.3 ± 5.6
Mean 0.9327 ± 0.0004
σ 0.0103 ± 0.0006
Pol Amp 369.8 ± 0.4
const term -0.2463 ± 0.0884
linear term 0.283 ± 0.073
quad term 0.2615 ± 0.0785
cube term -0.2944 ± 0.0701
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

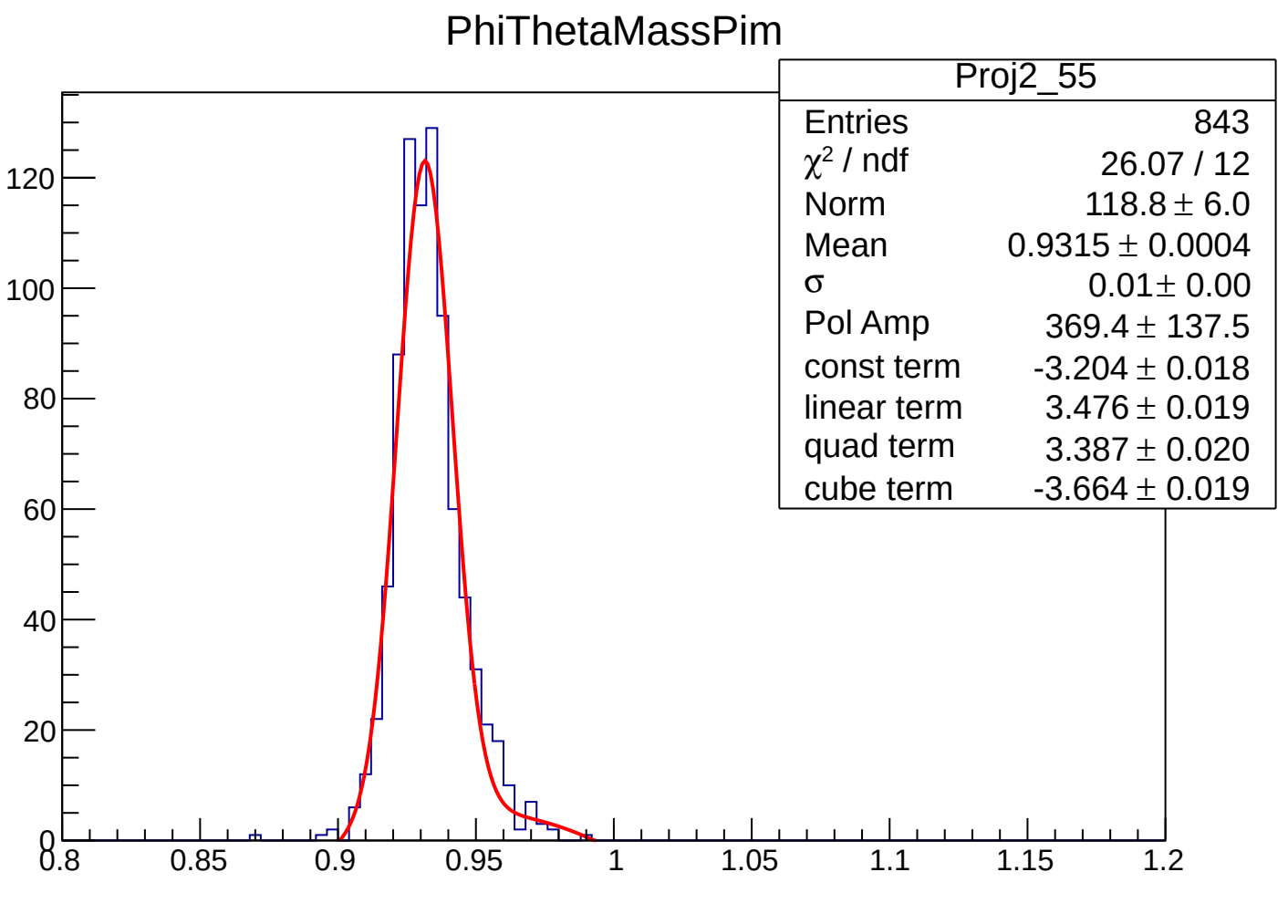

PhiThetaMassPim
Proj2_50
Entries 895
χ^2 / ndf 41.94 / 13
Norm 127.6 ± 5.9
Mean 0.9303 ± 0.0004
σ 0.01036 ± 0.00038
Pol Amp 371.4 ± 165.7
const term -1.452 ± 0.014
linear term 1.543 ± 0.015
quad term 1.526 ± 0.016
cube term -1.617 ± 0.015
0
20
40
60
80
100
120
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

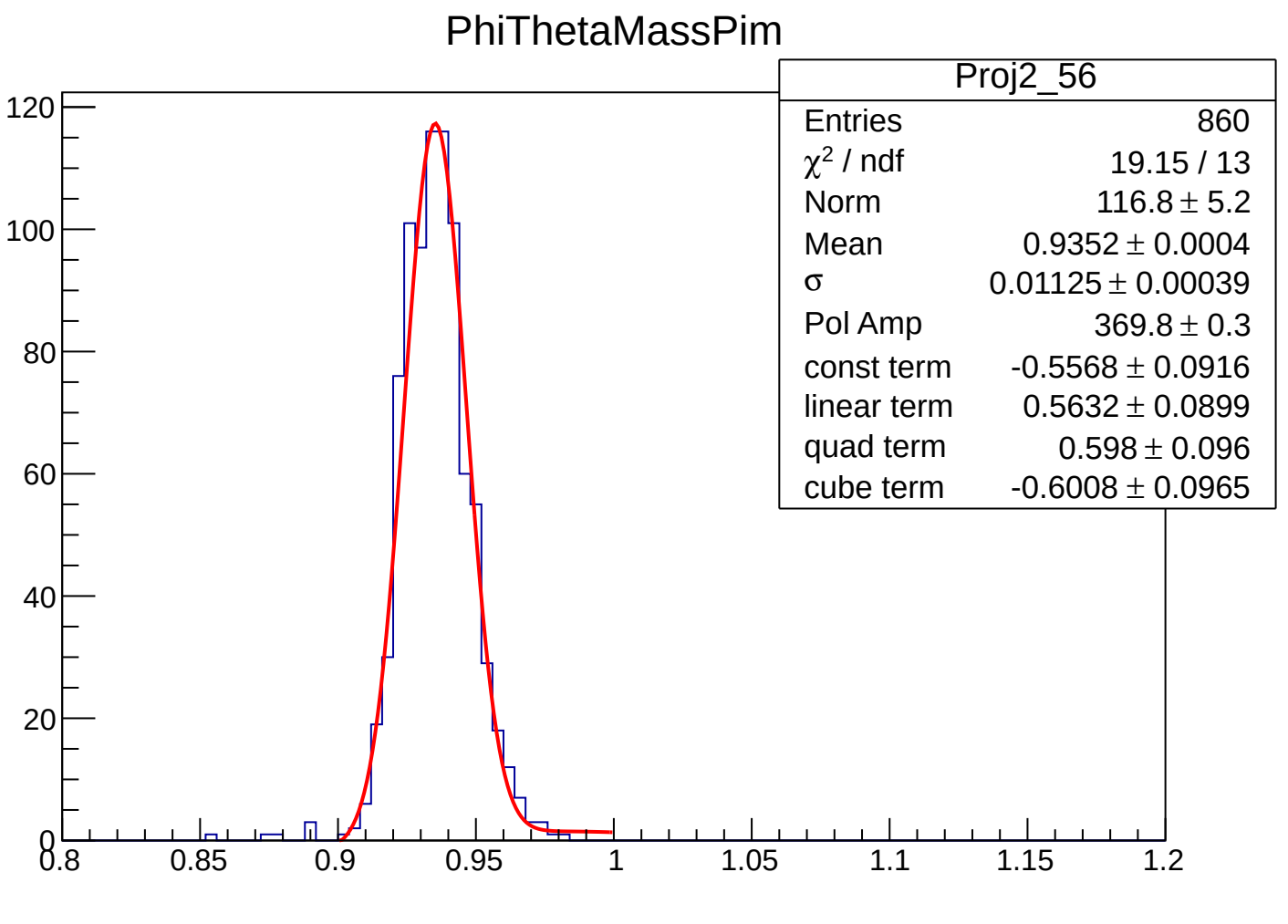

PhiThetaMassPim
Proj2_51
Entries 524
χ² / ndf 5.752 / 10
Norm 78.15 ± 5.60
Mean 0.9275 ± 0.0005
σ 0.007995 ± 0.000519
Pol Amp 1635 ± 400.3
const term -2.357 ± 0.004
linear term 2.622 ± 0.004
quad term 2.483 ± 0.004
cube term -2.763 ± 0.004
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

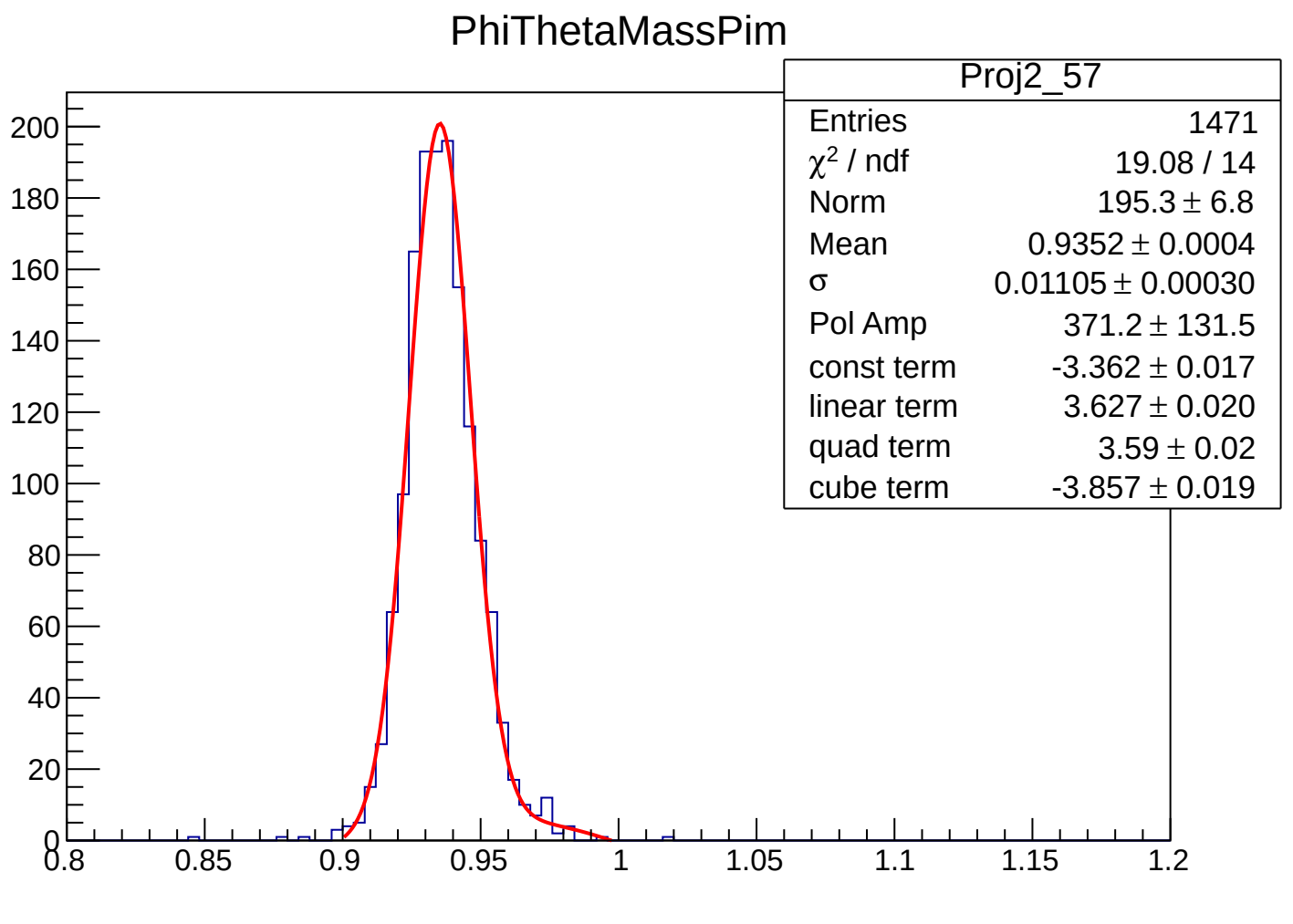

PhiThetaMassPim
Proj2_52
Entries 878
χ² / ndf 26.17 / 14
Norm 128.7 ± 5.8
Mean 0.9348 ± 0.0004
σ 0.01004 ± 0.00036
Pol Amp 371.1 ± 0.3
const term -0.2568 ± 0.0712
linear term 0.2876 ± 0.0671
quad term 0.2777 ± 0.0696
cube term -0.3057 ± 0.0689
0
20
40
60
80
100
120
140
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

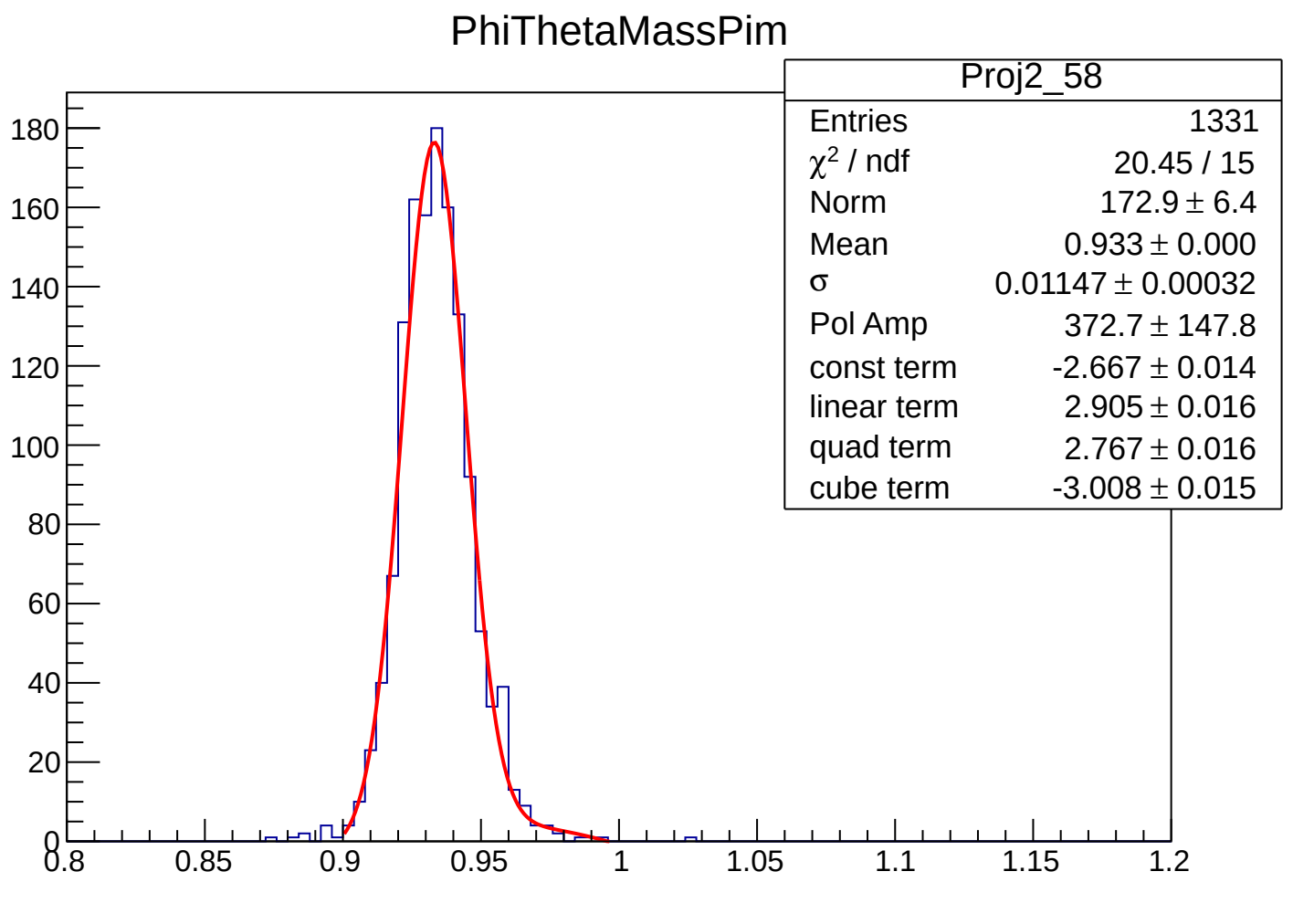

PhiThetaMassPim
Proj2_53
Entries 1342
χ² / ndf 23.69 / 14
Norm 180.1 ± 6.8
Mean 0.9341 ± 0.0004
σ 0.01088 ± 0.00032
Pol Amp 372.6 ± 109.9
const term -3.856 ± 0.014
linear term 4.133 ± 0.017
quad term 4.182 ± 0.017
cube term -4.466 ± 0.016
0
20
40
60
80
100
120
140
160
180
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

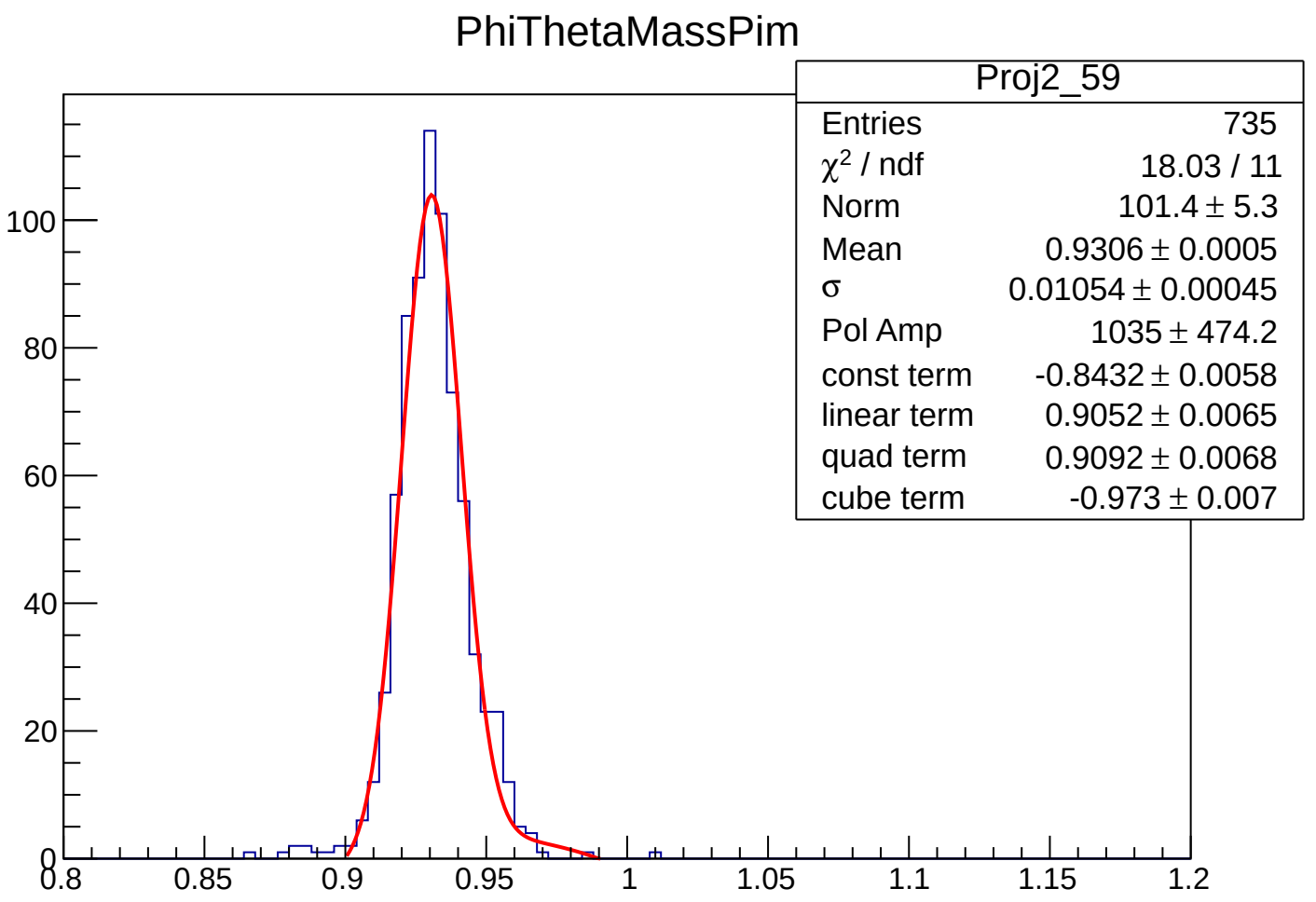

PhiThetaMassPim
Proj2_54
Entries 1485
χ² / ndf 17.24 / 15
Norm 204.8 ± 7.2
Mean 0.9335 ± 0.0003
σ 0.01063 ± 0.00028
Pol Amp 373.2 ± 115.8
const term -4.254 ± 0.014
linear term 4.637 ± 0.016
quad term 4.485 ± 0.016
cube term -4.877 ± 0.016
220
200
180
160
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

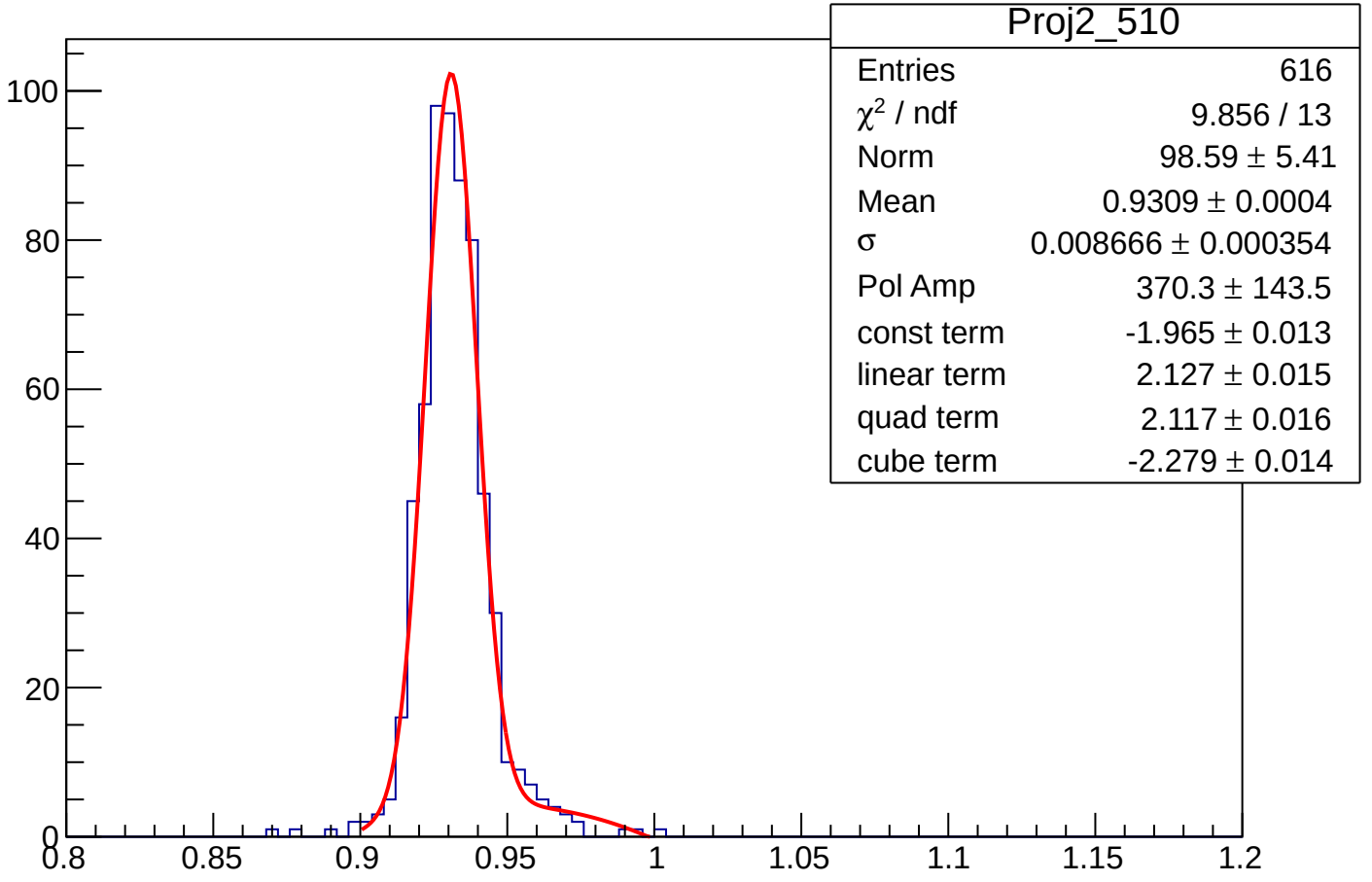

PhiThetaMassPim
Proj2_55
Entries 843
χ² / ndf 26.07 / 12
Norm 118.8 ± 6.0
Mean 0.9315 ± 0.0004
σ 0.01 ± 0.00
Pol Amp 369.4 ± 137.5
const term -3.204 ± 0.018
linear term 3.476 ± 0.019
quad term 3.387 ± 0.020
cube term -3.664 ± 0.019
0
20
40
60
80
100
120
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

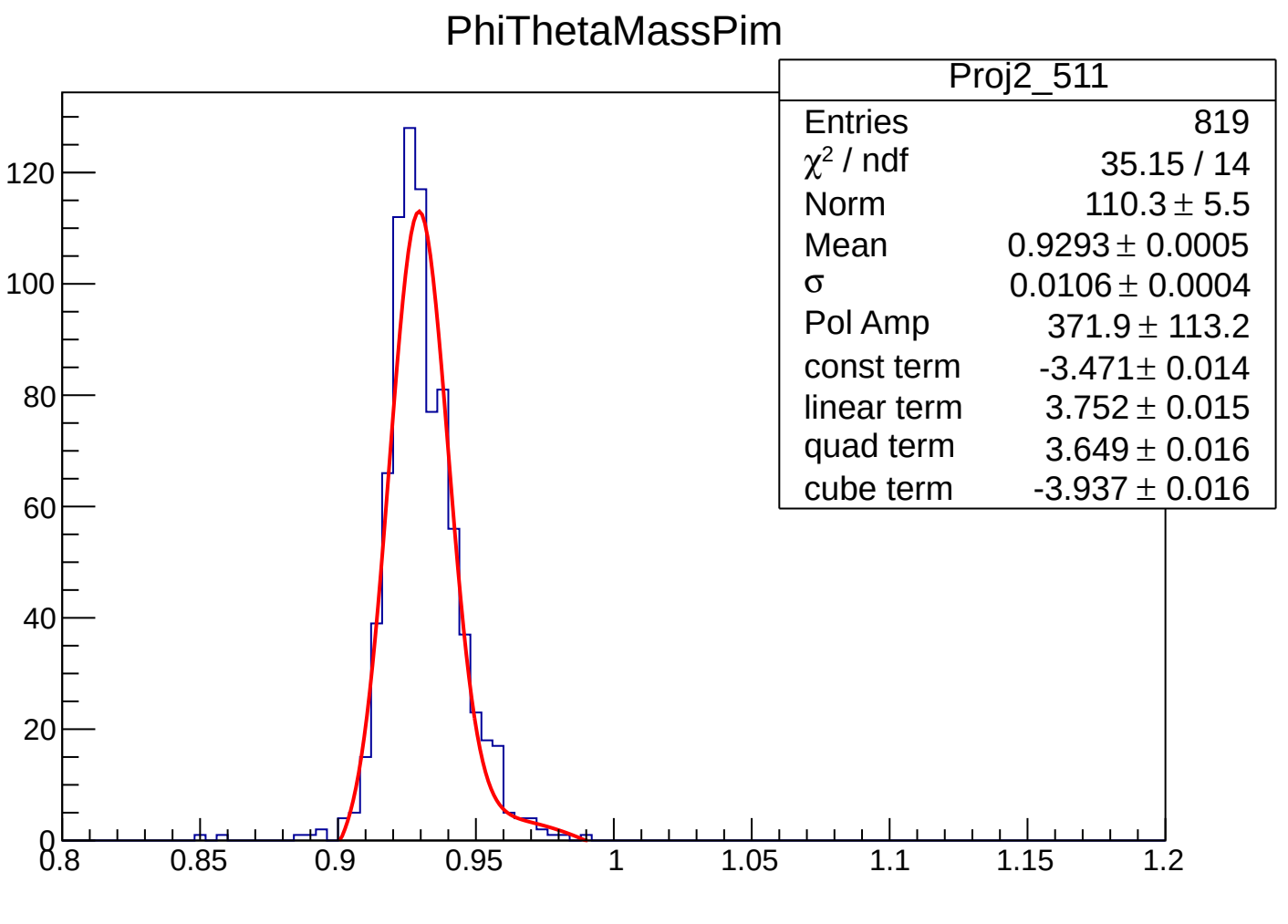

PhiThetaMassPim
Proj2_56
Entries 860
χ² / ndf 19.15 / 13
Norm 116.8 ± 5.2
Mean 0.9352 ± 0.0004
σ 0.01125 ± 0.00039
Pol Amp 369.8 ± 0.3
const term -0.5568 ± 0.0916
linear term 0.5632 ± 0.0899
quad term 0.598 ± 0.096
cube term -0.6008 ± 0.0965
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

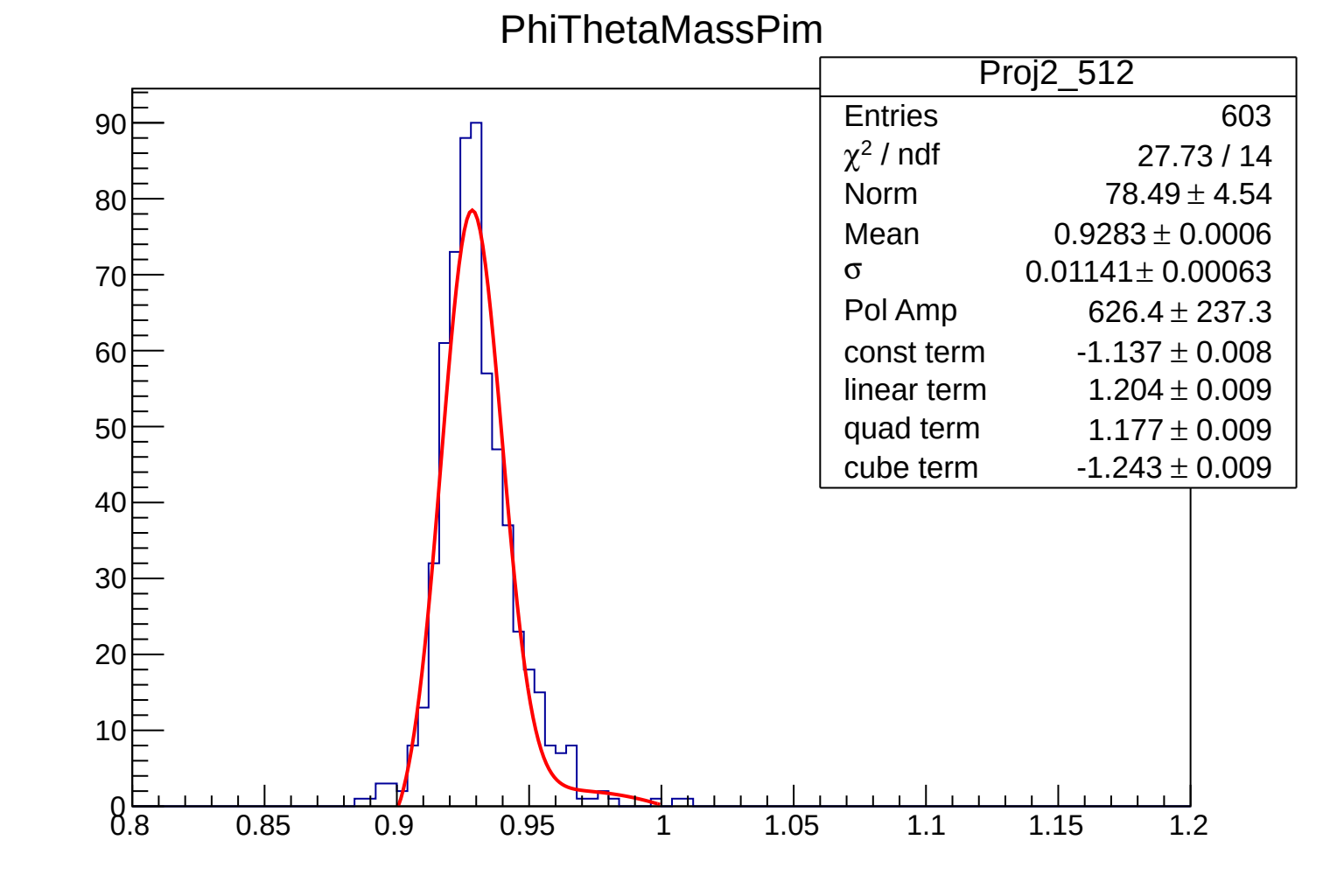

PhiThetaMassPim
Proj2_57
Entries 1471
χ² / ndf 19.08 / 14
Norm 195.3 ± 6.8
Mean 0.9352 ± 0.0004
σ 0.01105 ± 0.00030
Pol Amp 371.2 ± 131.5
const term -3.362 ± 0.017
linear term 3.627 ± 0.020
quad term 3.59 ± 0.02
cube term -3.857 ± 0.019
200
180
160
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

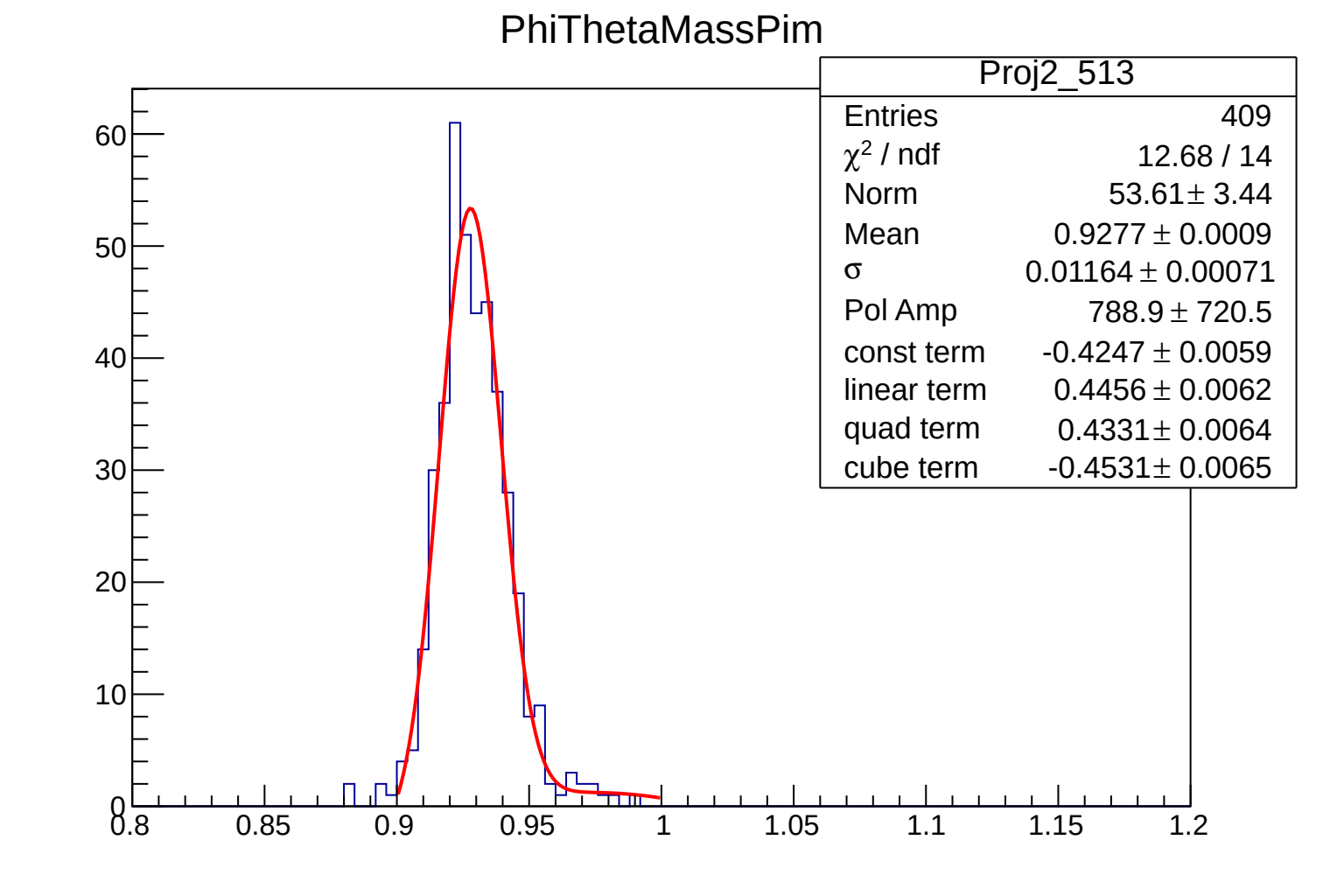

PhiThetaMassPim
Proj2_58
Entries 1331
χ² / ndf 20.45 / 15
Norm 172.9 ± 6.4
Mean 0.933 ± 0.000
σ 0.01147 ± 0.00032
Pol Amp 372.7 ± 147.8
const term -2.667 ± 0.014
linear term 2.905 ± 0.016
quad term 2.767 ± 0.016
cube term -3.008 ± 0.015
0
20
40
60
80
100
120
140
160
180
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

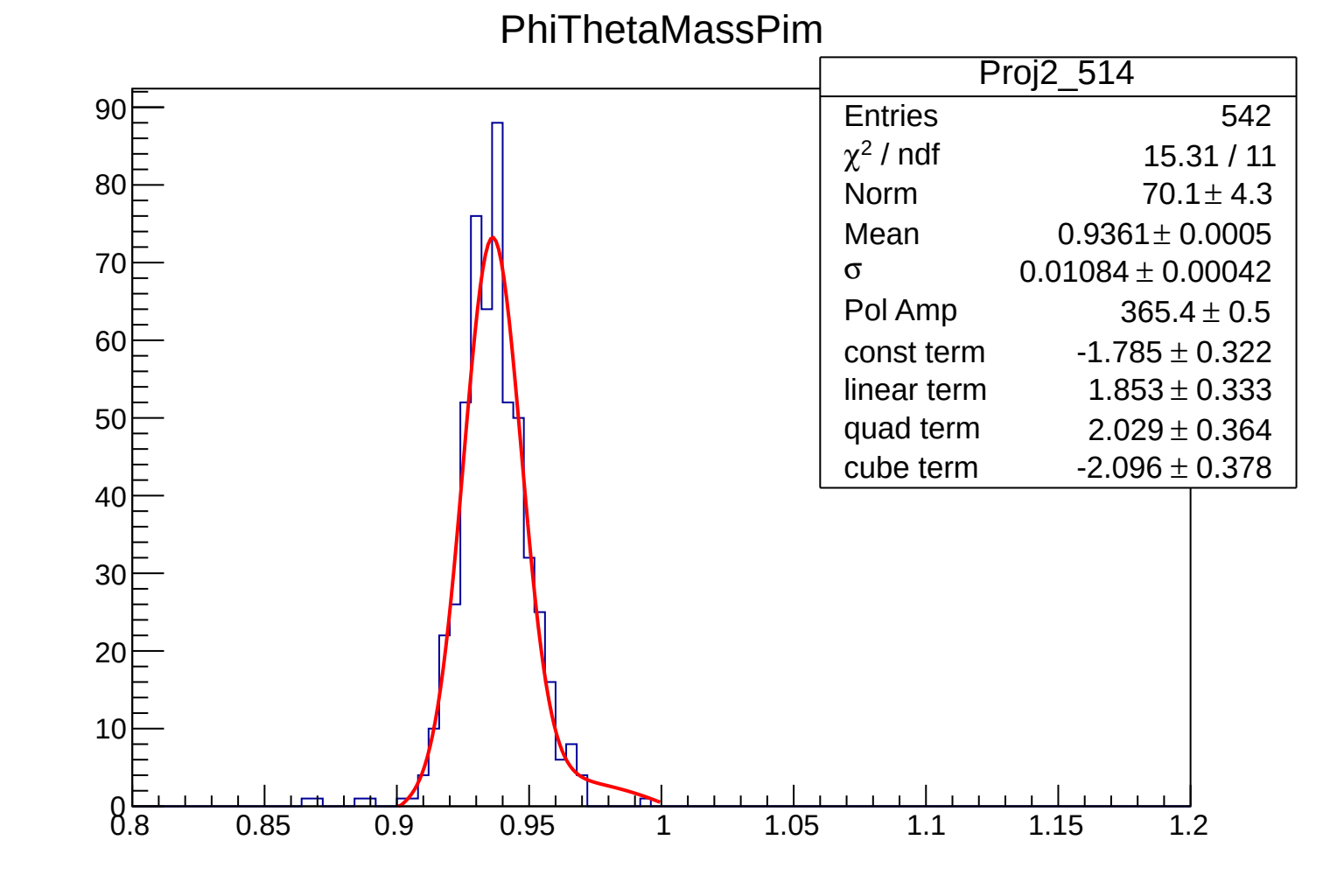

PhiThetaMassPim
Proj2_59
Entries 735
χ² / ndf 18.03 / 11
Norm 101.4 ± 5.3
Mean 0.9306 ± 0.0005
σ 0.01054 ± 0.00045
Pol Amp 1035 ± 474.2
const term -0.8432 ± 0.0058
linear term 0.9052 ± 0.0065
quad term 0.9092 ± 0.0068
cube term -0.973 ± 0.007
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

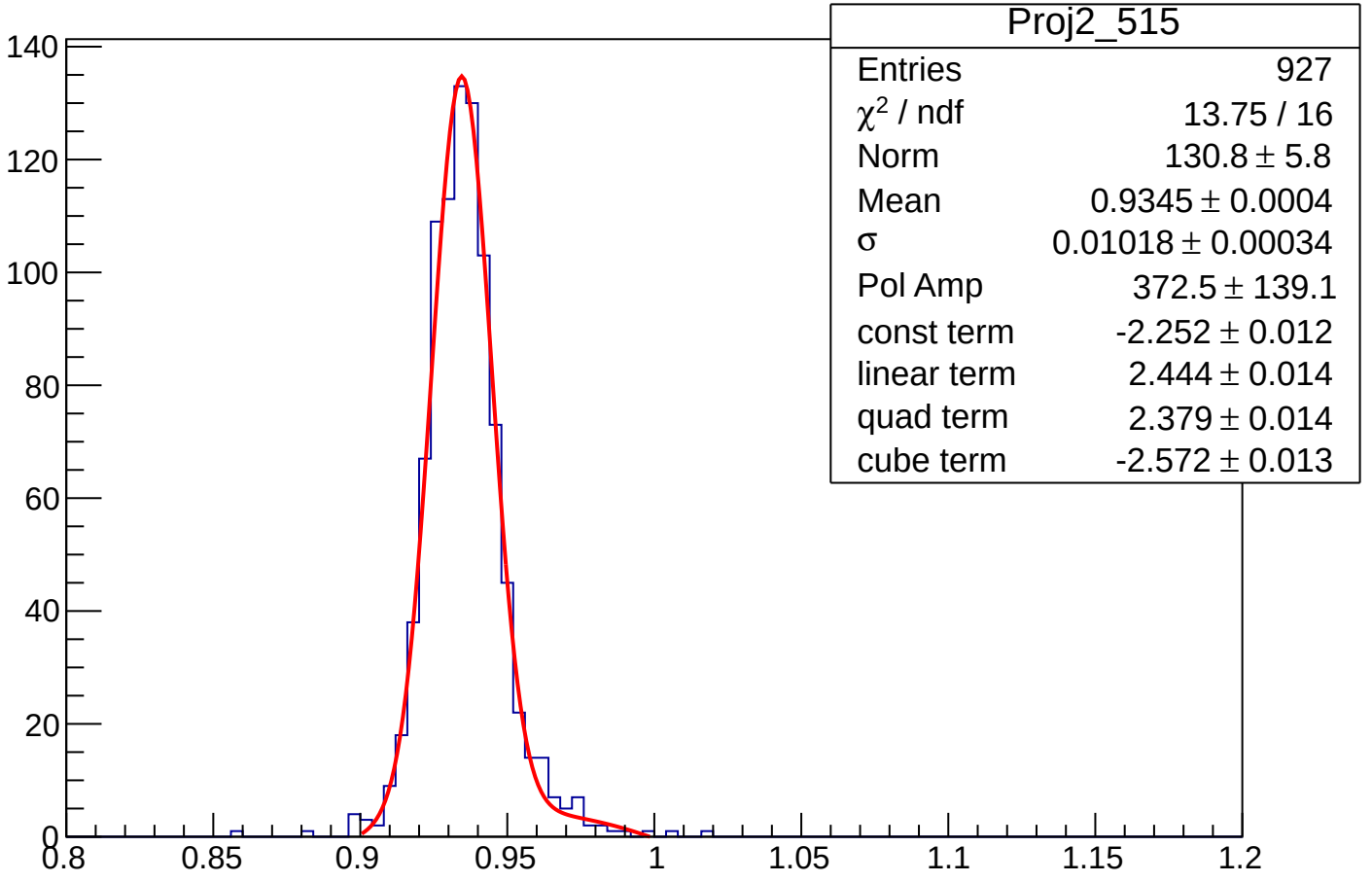

PhiThetaMassPim
Proj2_510
Entries 616
χ² / ndf 9.856 / 13
Norm 98.59 ± 5.41
Mean 0.9309 ± 0.0004
σ 0.008666 ± 0.000354
Pol Amp 370.3 ± 143.5
const term -1.965 ± 0.013
linear term 2.127 ± 0.015
quad term 2.117 ± 0.016
cube term -2.279 ± 0.014
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

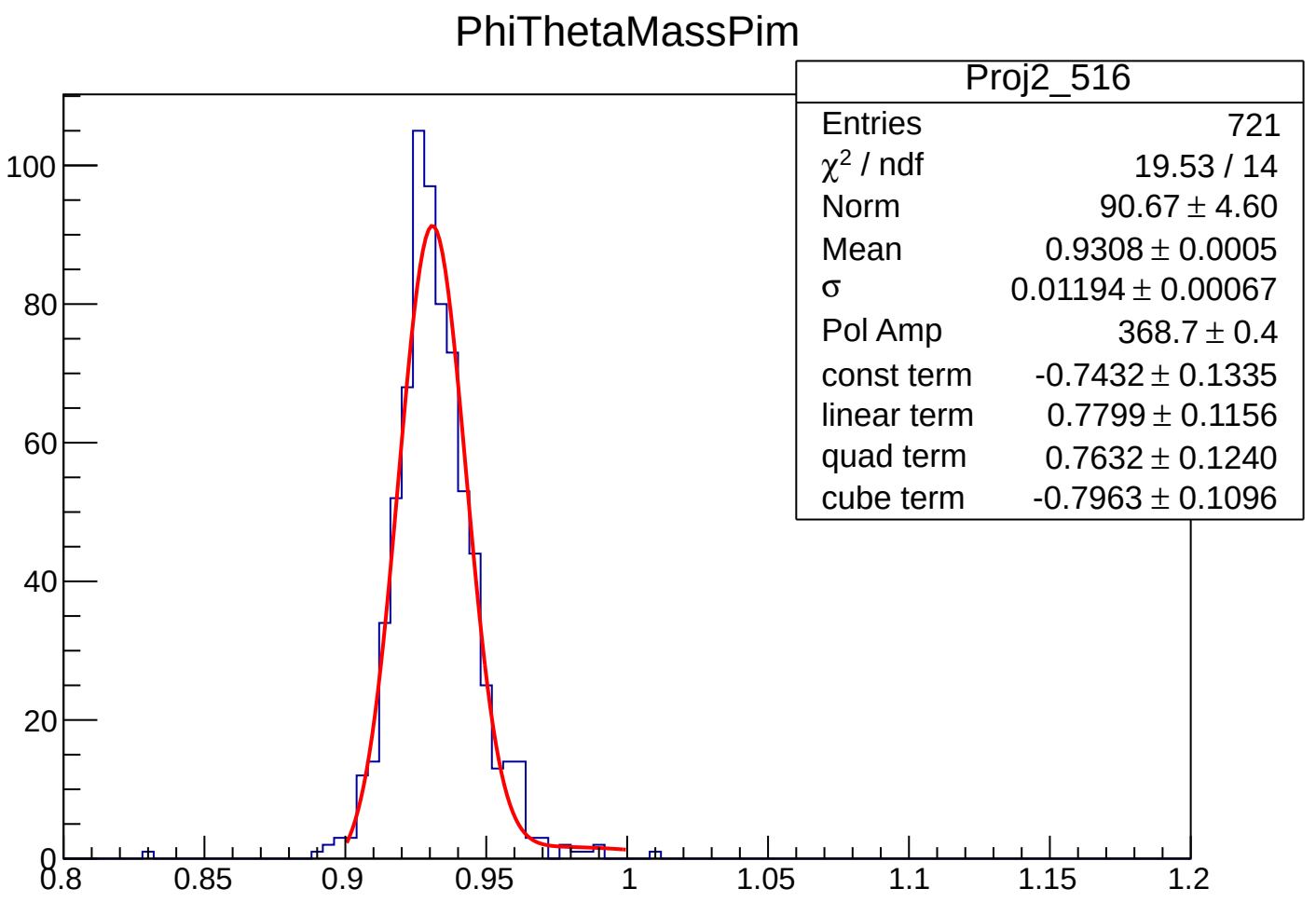

PhiThetaMassPim
Proj2_511
Entries 819
χ² / ndf 35.15 / 14
Norm 110.3 ± 5.5
Mean 0.9293 ± 0.0005
σ 0.0106 ± 0.0004
Pol Amp 371.9 ± 113.2
const term -3.471 ± 0.014
linear term 3.752 ± 0.015
quad term 3.649 ± 0.016
cube term -3.937 ± 0.016
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

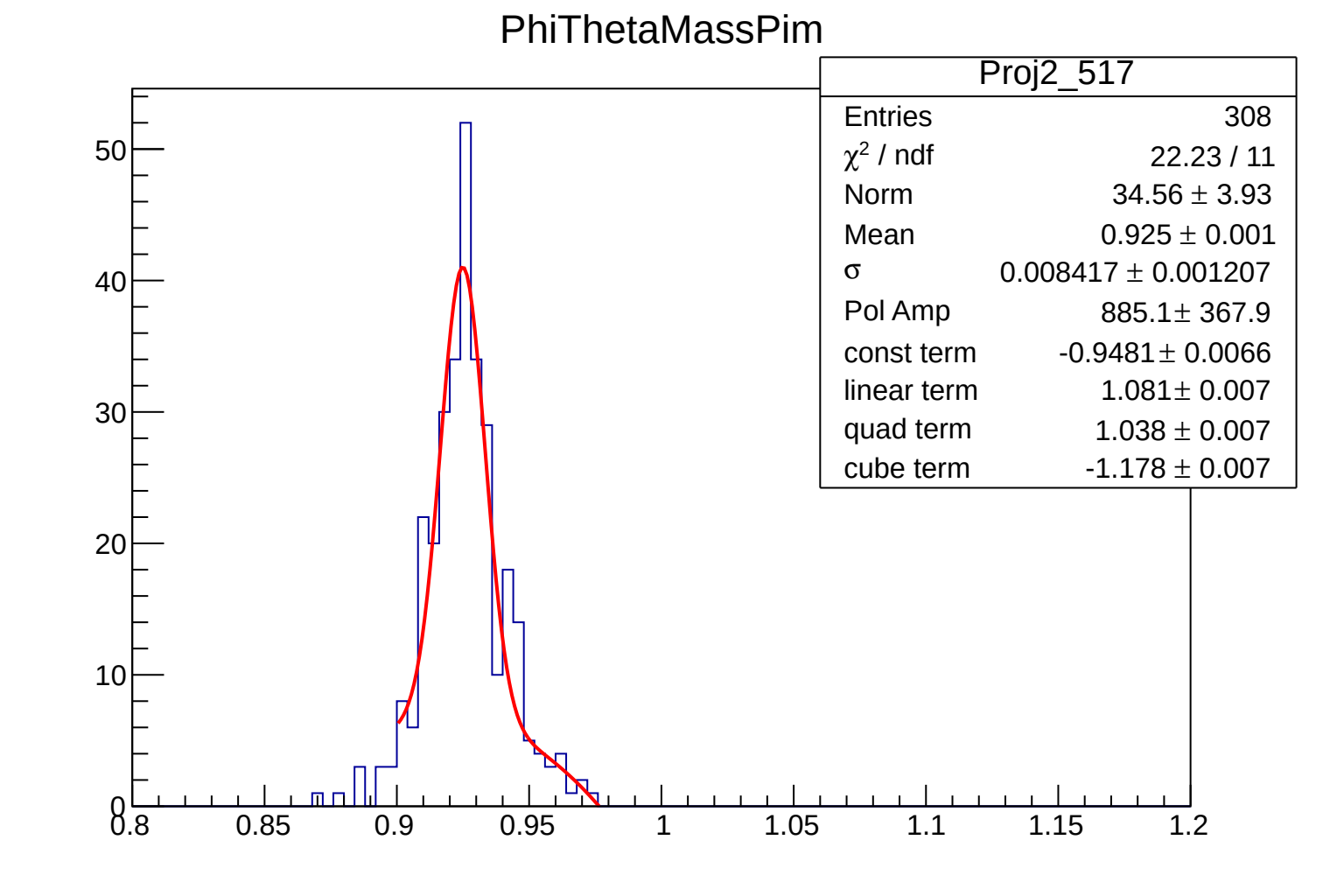

PhiThetaMassPim
Proj2_512
Entries 603
χ² / ndf 27.73 / 14
Norm 78.49 ± 4.54
Mean 0.9283 ± 0.0006
σ 0.01141 ± 0.00063
Pol Amp 626.4 ± 237.3
const term -1.137 ± 0.008
linear term 1.204 ± 0.009
quad term 1.177 ± 0.009
cube term -1.243 ± 0.009
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

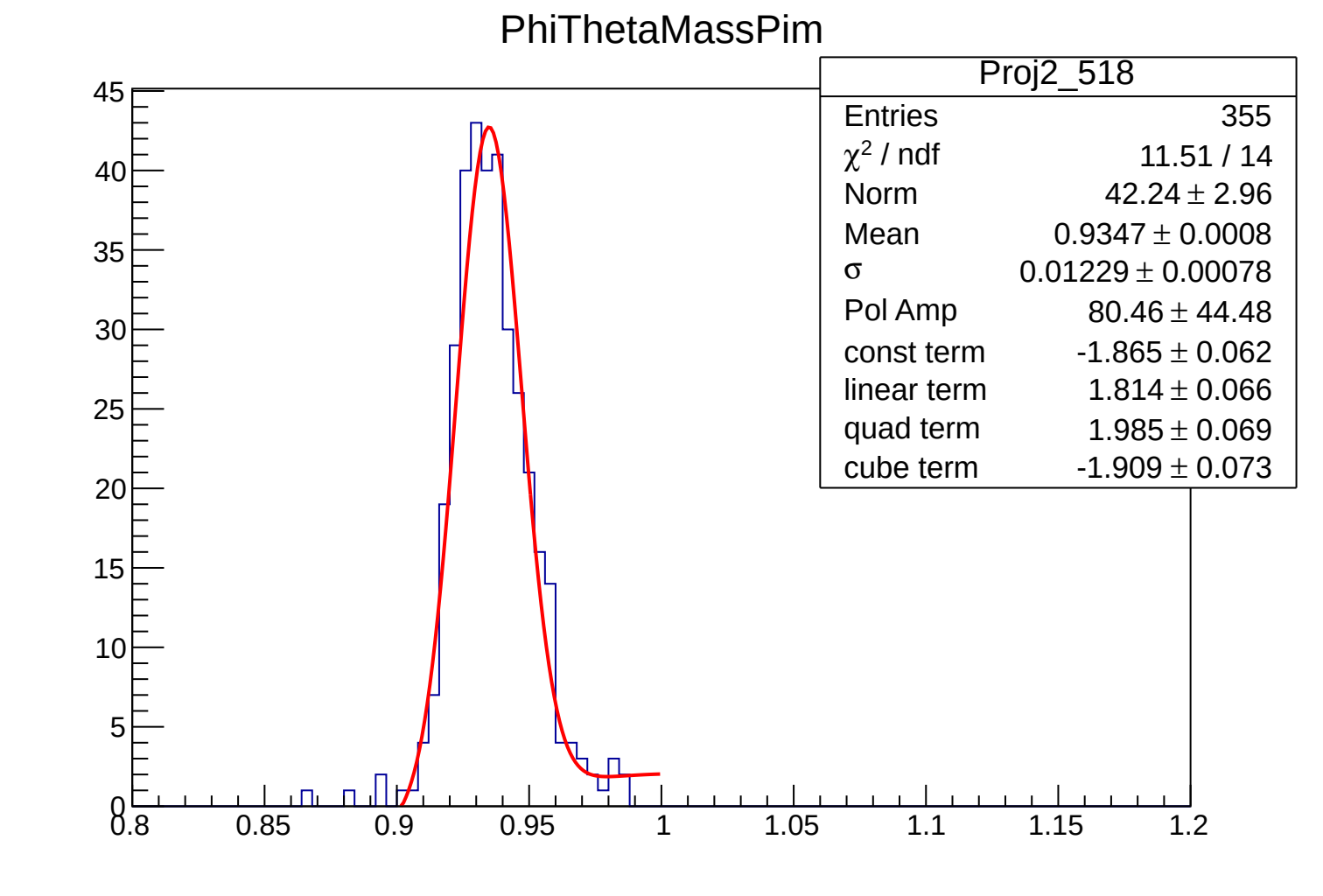

PhiThetaMassPim
Proj2_513
Entries 409
χ² / ndf 12.68 / 14
Norm 53.61 ± 3.44
Mean 0.9277 ± 0.0009
σ 0.01164 ± 0.00071
Pol Amp 788.9 ± 720.5
const term -0.4247 ± 0.0059
linear term 0.4456 ± 0.0062
quad term 0.4331 ± 0.0064
cube term -0.4531 ± 0.0065
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

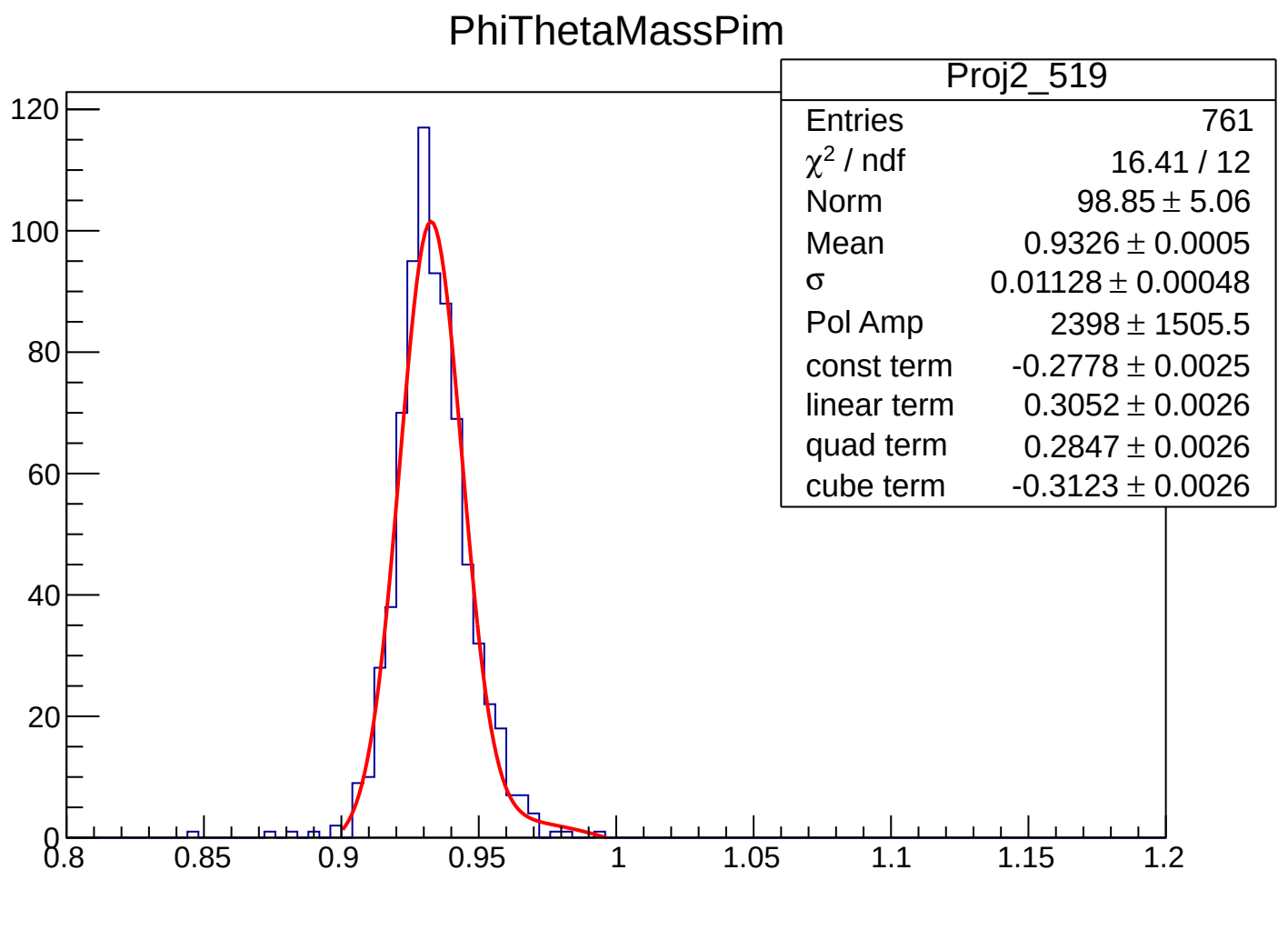

PhiThetaMassPim
Proj2_514
Entries 542
χ² / ndf 15.31 / 11
Norm 70.1 ± 4.3
Mean 0.9361 ± 0.0005
σ 0.01084 ± 0.00042
Pol Amp 365.4 ± 0.5
const term -1.785 ± 0.322
linear term 1.853 ± 0.333
quad term 2.029 ± 0.364
cube term -2.096 ± 0.378
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

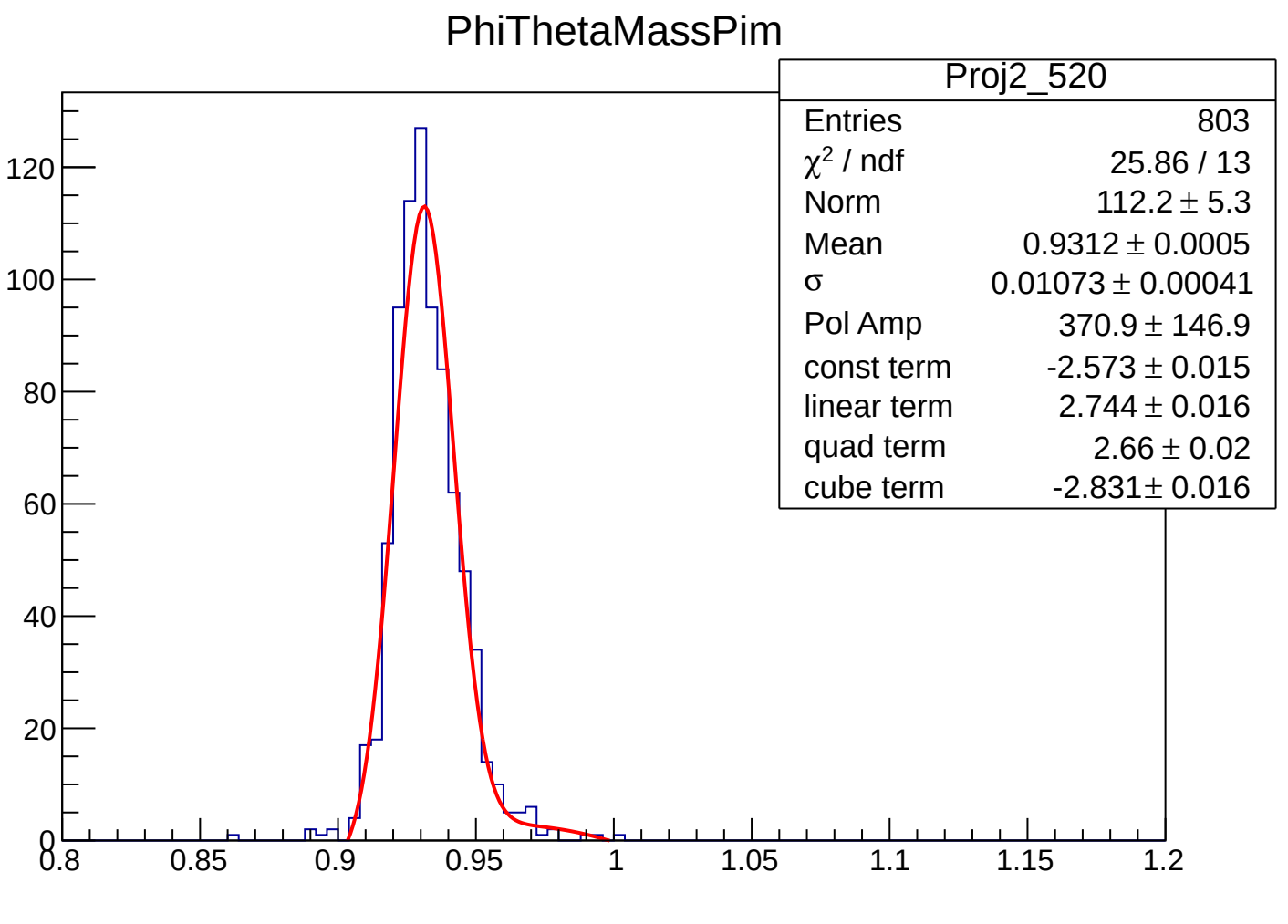

PhiThetaMassPim
Proj2_515
Entries 927
χ² / ndf 13.75 / 16
Norm 130.8 ± 5.8
Mean 0.9345 ± 0.0004
σ 0.01018 ± 0.00034
Pol Amp 372.5 ± 139.1
const term -2.252 ± 0.012
linear term 2.444 ± 0.014
quad term 2.379 ± 0.014
cube term -2.572 ± 0.013
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

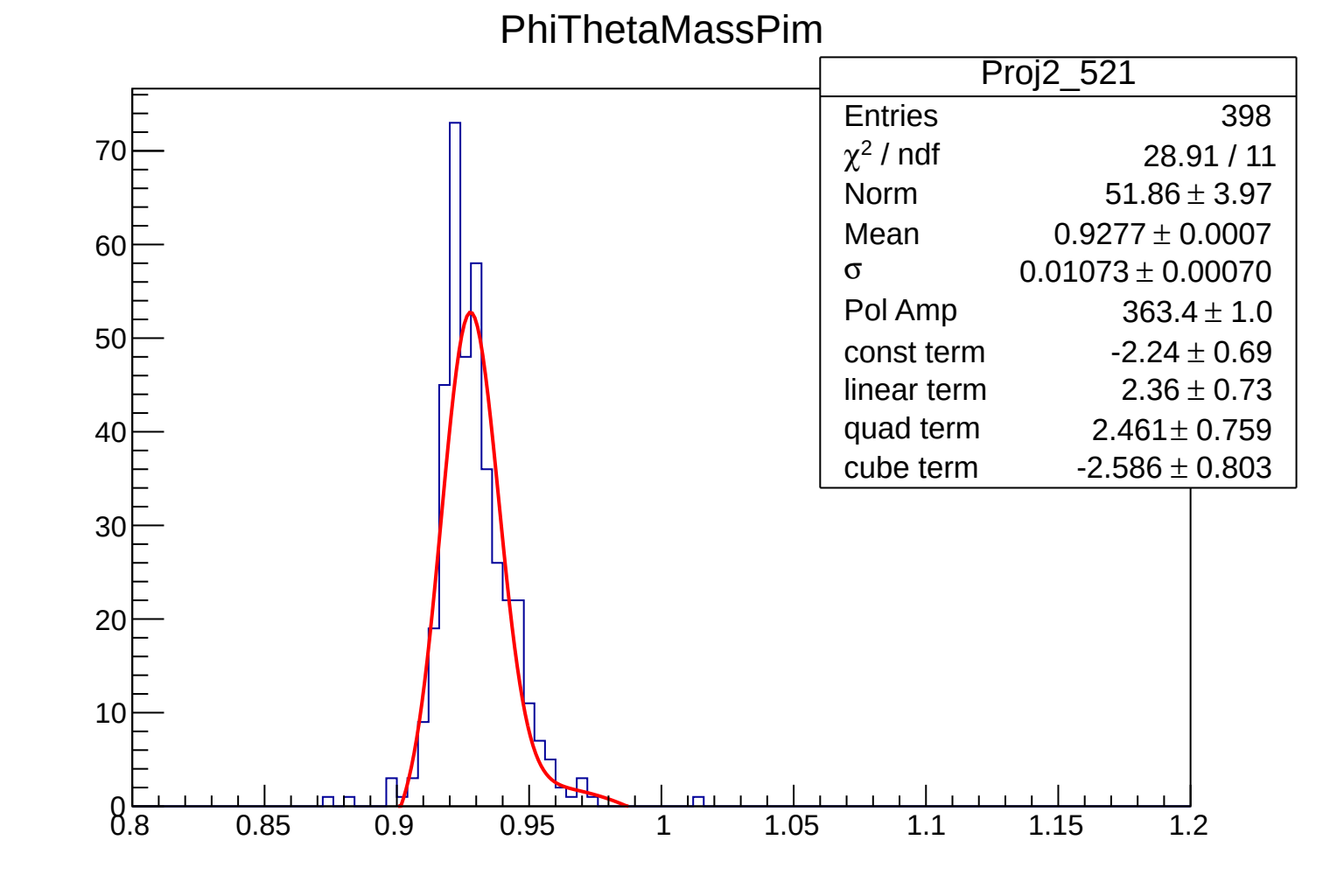

PhiThetaMassPim
Proj2_516
Entries 721
χ² / ndf 19.53 / 14
Norm 90.67 ± 4.60
Mean 0.9308 ± 0.0005
σ 0.01194 ± 0.00067
Pol Amp 368.7 ± 0.4
const term -0.7432 ± 0.1335
linear term 0.7799 ± 0.1156
quad term 0.7632 ± 0.1240
cube term -0.7963 ± 0.1096
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

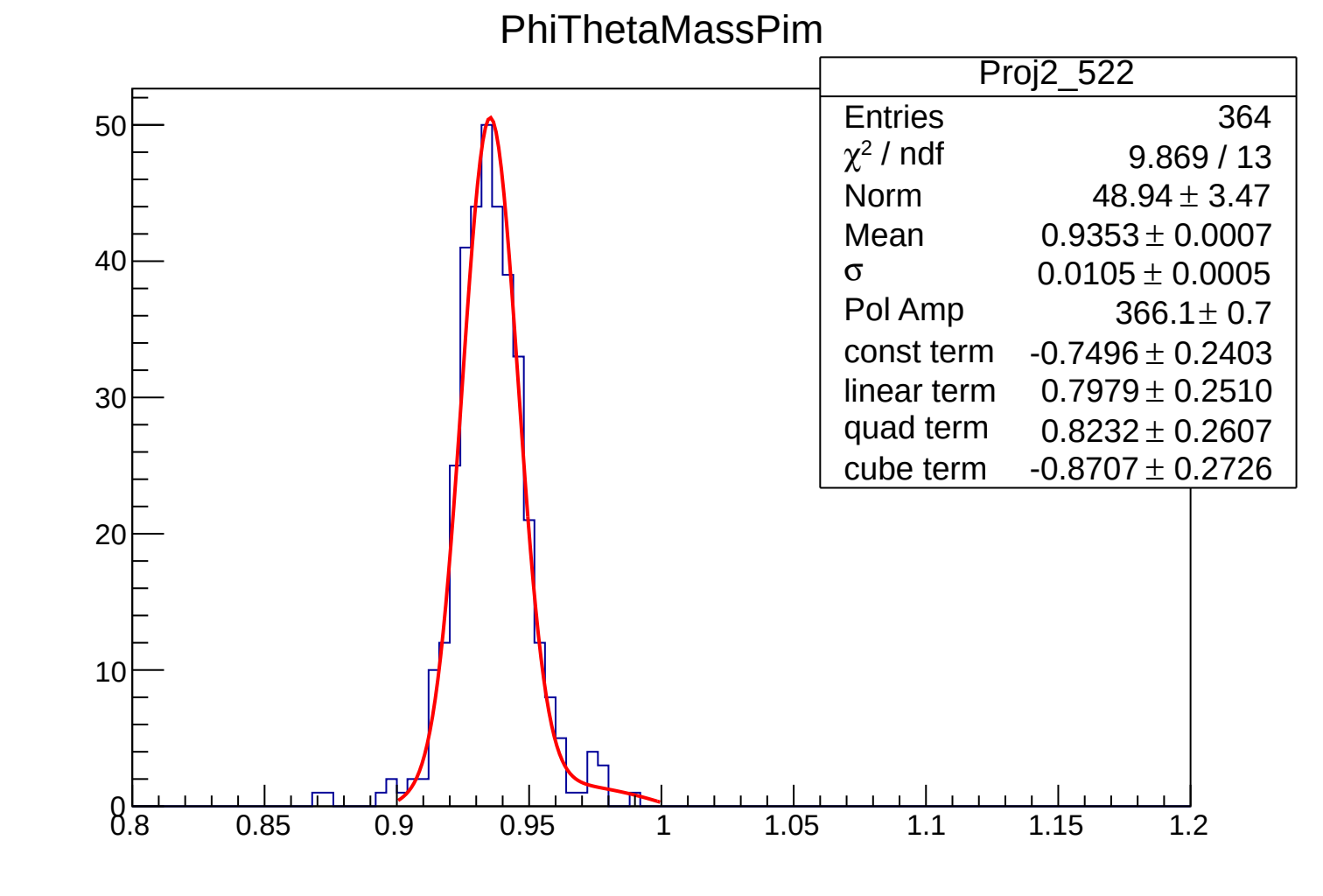

PhiThetaMassPim
Proj2_517
Entries 308
χ² / ndf 22.23 / 11
Norm 34.56 ± 3.93
Mean 0.925 ± 0.001
σ 0.008417 ± 0.001207
Pol Amp 885.1± 367.9
const term -0.9481± 0.0066
linear term 1.081± 0.007
quad term 1.038 ± 0.007
cube term -1.178 ± 0.007
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

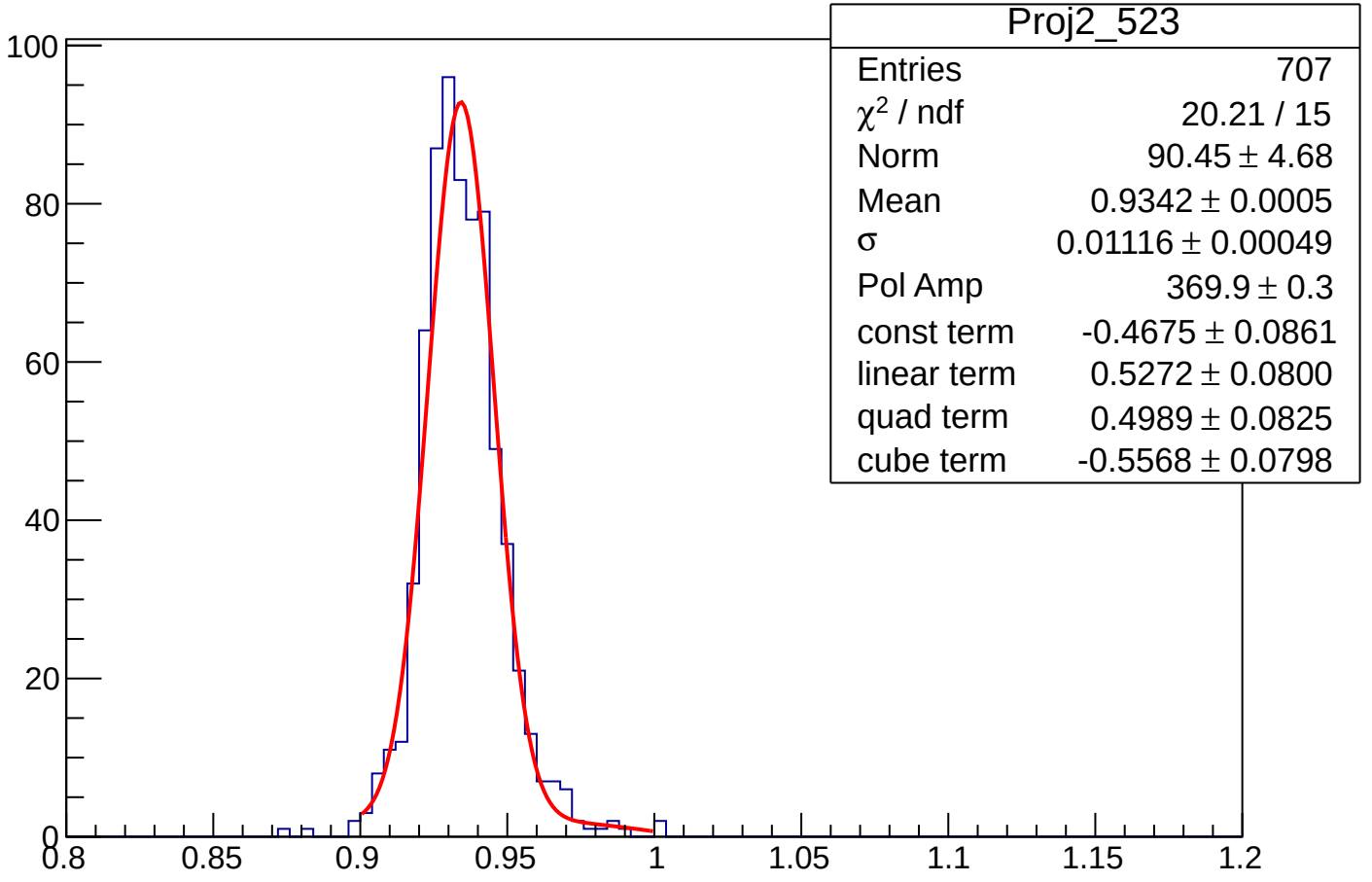

PhiThetaMassPim
Proj2_518
Entries 355
χ² / ndf 11.51 / 14
Norm 42.24 ± 2.96
Mean 0.9347 ± 0.0008
σ 0.01229 ± 0.00078
Pol Amp 80.46 ± 44.48
const term -1.865 ± 0.062
linear term 1.814 ± 0.066
quad term 1.985 ± 0.069
cube term -1.909 ± 0.073
45
40
35
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

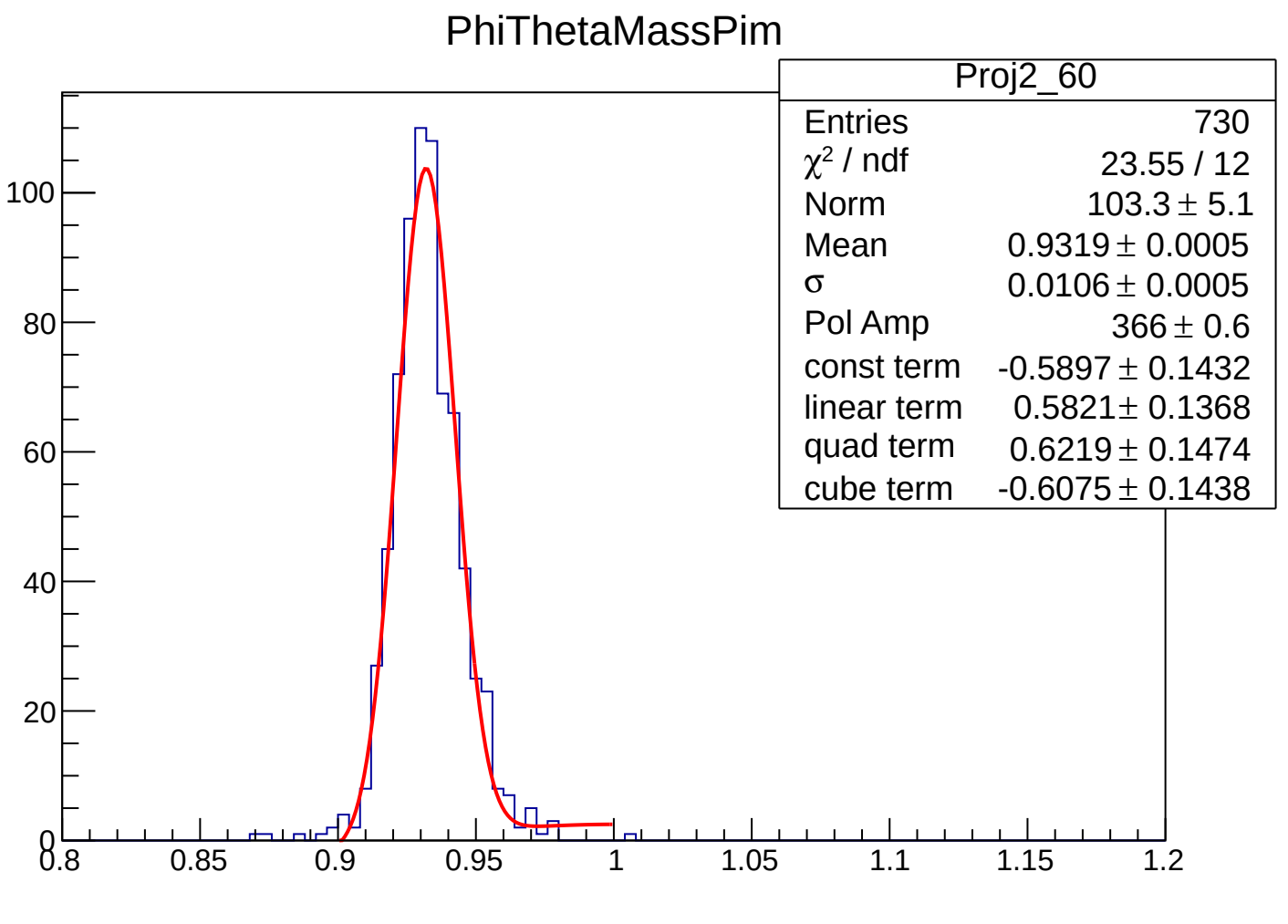

PhiThetaMassPim
Proj2_519
Entries 761
χ² / ndf 16.41 / 12
Norm 98.85 ± 5.06
Mean 0.9326 ± 0.0005
σ 0.01128 ± 0.00048
Pol Amp 2398 ± 1505.5
const term -0.2778 ± 0.0025
linear term 0.3052 ± 0.0026
quad term 0.2847 ± 0.0026
cube term -0.3123 ± 0.0026
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

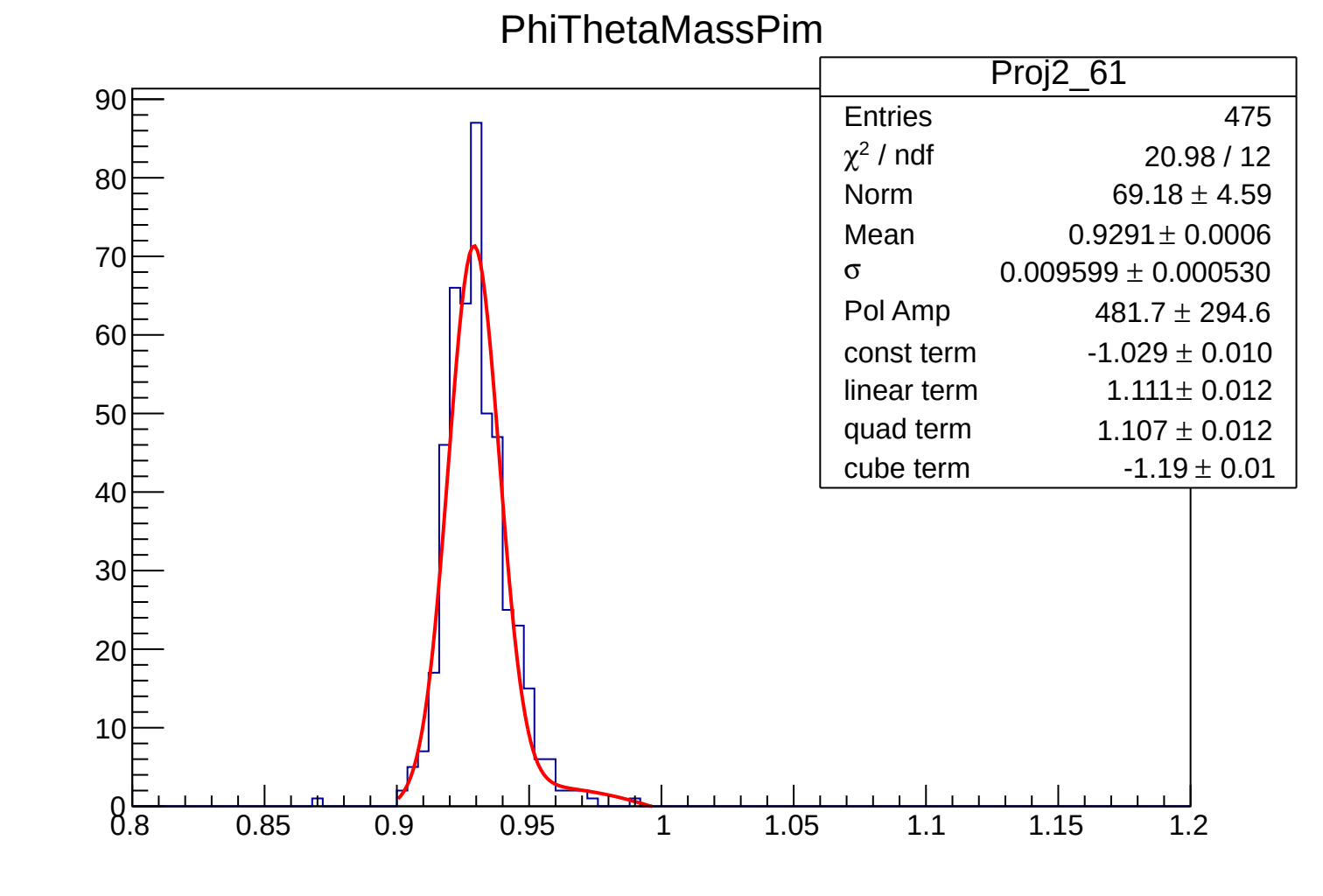

PhiThetaMassPim
Proj2_520
Entries 803
χ² / ndf 25.86 / 13
Norm 112.2 ± 5.3
Mean 0.9312 ± 0.0005
σ 0.01073 ± 0.00041
Pol Amp 370.9 ± 146.9
const term -2.573 ± 0.015
linear term 2.744 ± 0.016
quad term 2.66 ± 0.02
cube term -2.831 ± 0.016
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

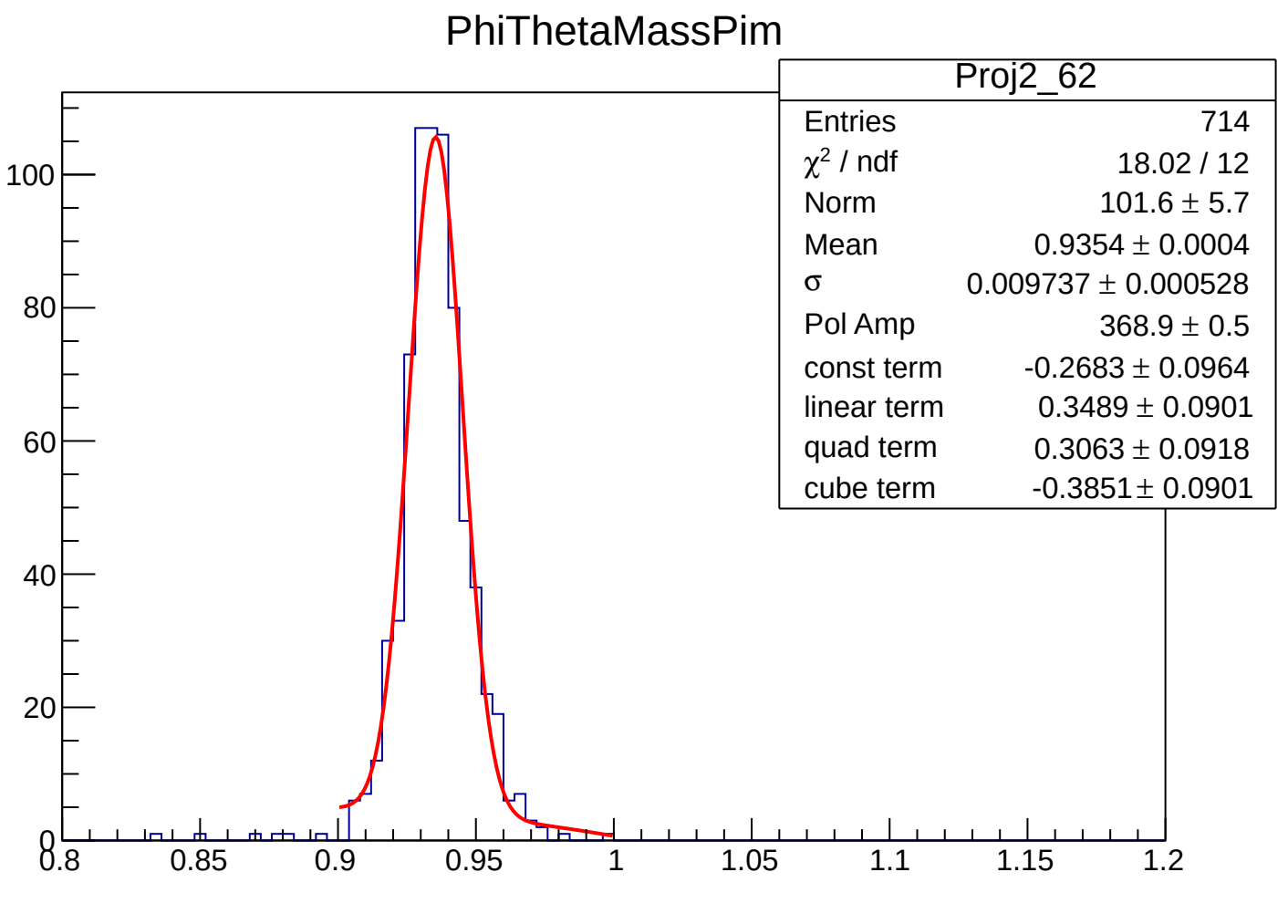

PhiThetaMassPim
Proj2_521
Entries 398
χ² / ndf 28.91 / 11
Norm 51.86 ± 3.97
Mean 0.9277 ± 0.0007
σ 0.01073 ± 0.00070
Pol Amp 363.4 ± 1.0
const term -2.24 ± 0.69
linear term 2.36 ± 0.73
quad term 2.461 ± 0.759
cube term -2.586 ± 0.803
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

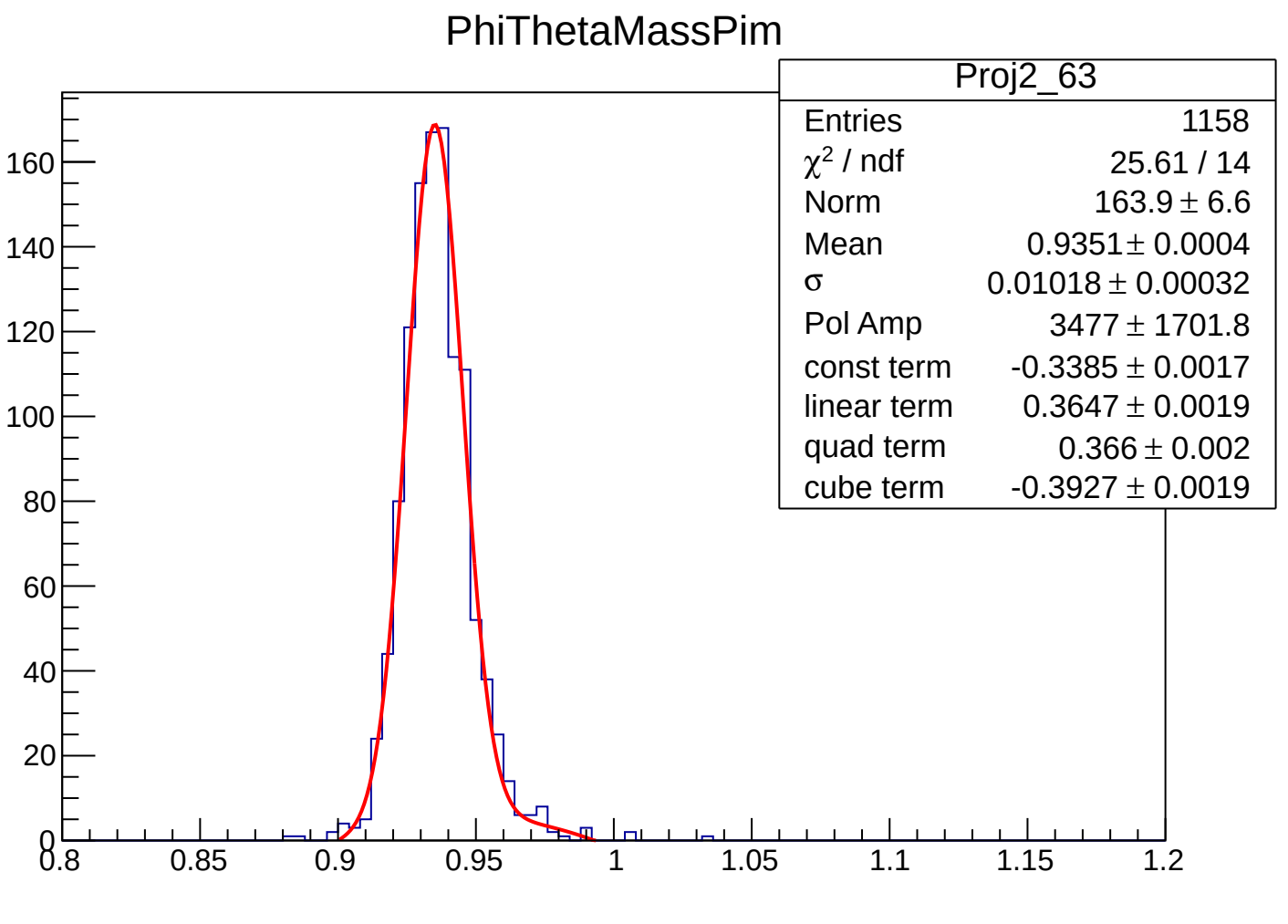

PhiThetaMassPim
Proj2_522
Entries 364
χ² / ndf 9.869 / 13
Norm 48.94 ± 3.47
Mean 0.9353 ± 0.0007
σ 0.0105 ± 0.0005
Pol Amp 366.1 ± 0.7
const term -0.7496 ± 0.2403
linear term 0.7979 ± 0.2510
quad term 0.8232 ± 0.2607
cube term -0.8707 ± 0.2726
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

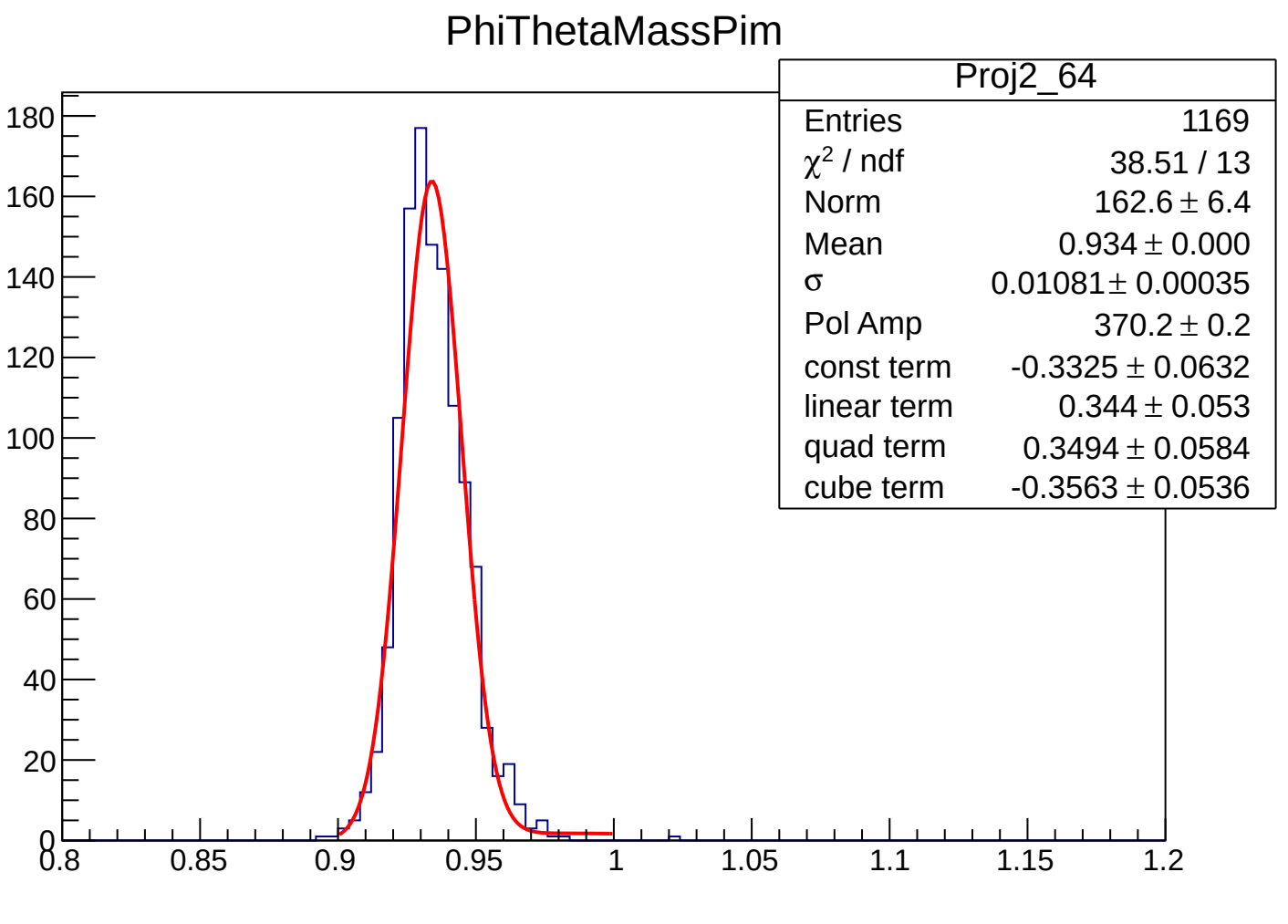

PhiThetaMassPim
Proj2_523
Entries 707
χ² / ndf 20.21 / 15
Norm 90.45 ± 4.68
Mean 0.9342 ± 0.0005
σ 0.01116 ± 0.00049
Pol Amp 369.9 ± 0.3
const term -0.4675 ± 0.0861
linear term 0.5272 ± 0.0800
quad term 0.4989 ± 0.0825
cube term -0.5568 ± 0.0798
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

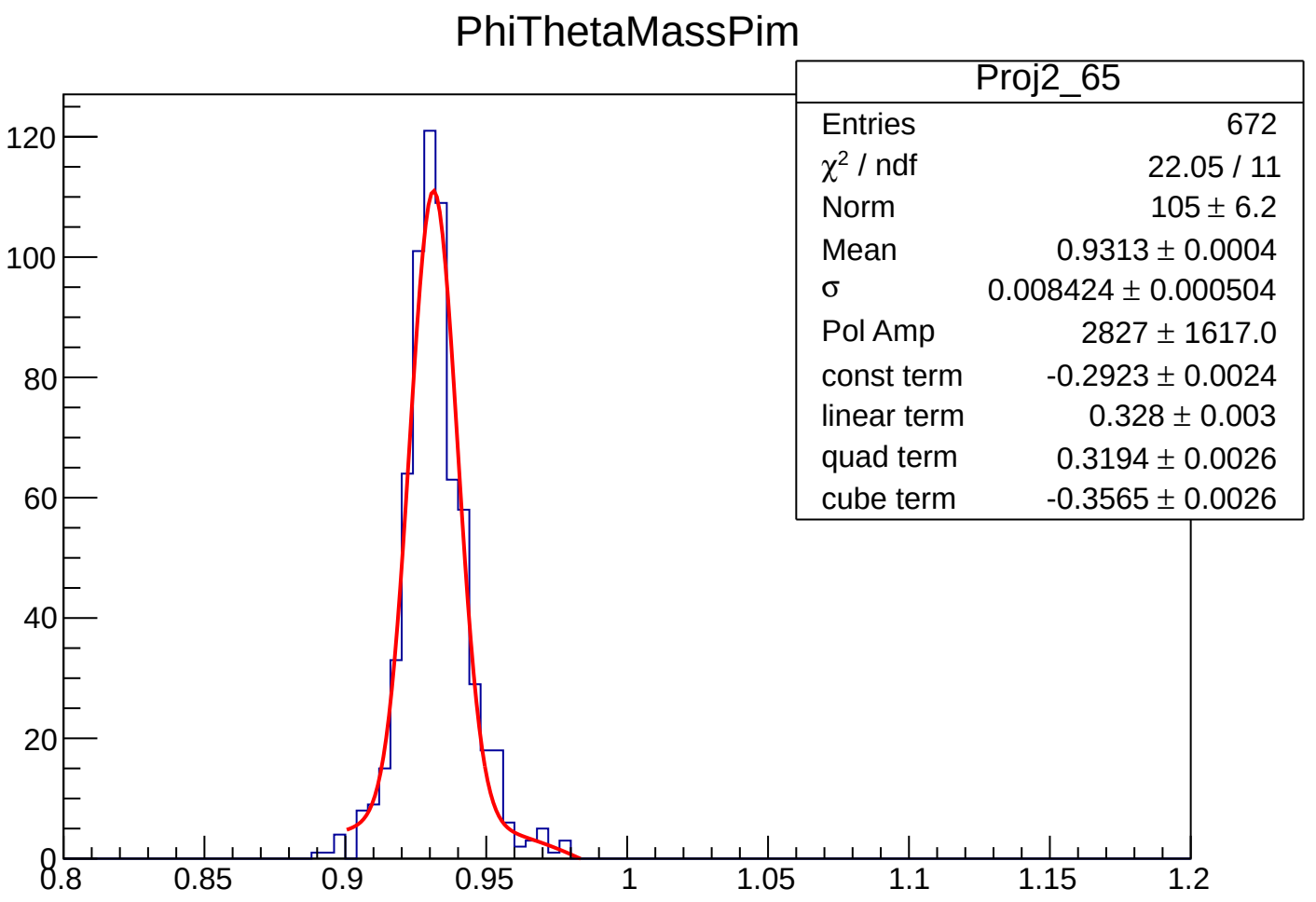

PhiThetaMassPim
Proj2_60
Entries 730
χ² / ndf 23.55 / 12
Norm 103.3 ± 5.1
Mean 0.9319 ± 0.0005
σ 0.0106 ± 0.0005
Pol Amp 366 ± 0.6
const term -0.5897 ± 0.1432
linear term 0.5821 ± 0.1368
quad term 0.6219 ± 0.1474
cube term -0.6075 ± 0.1438
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

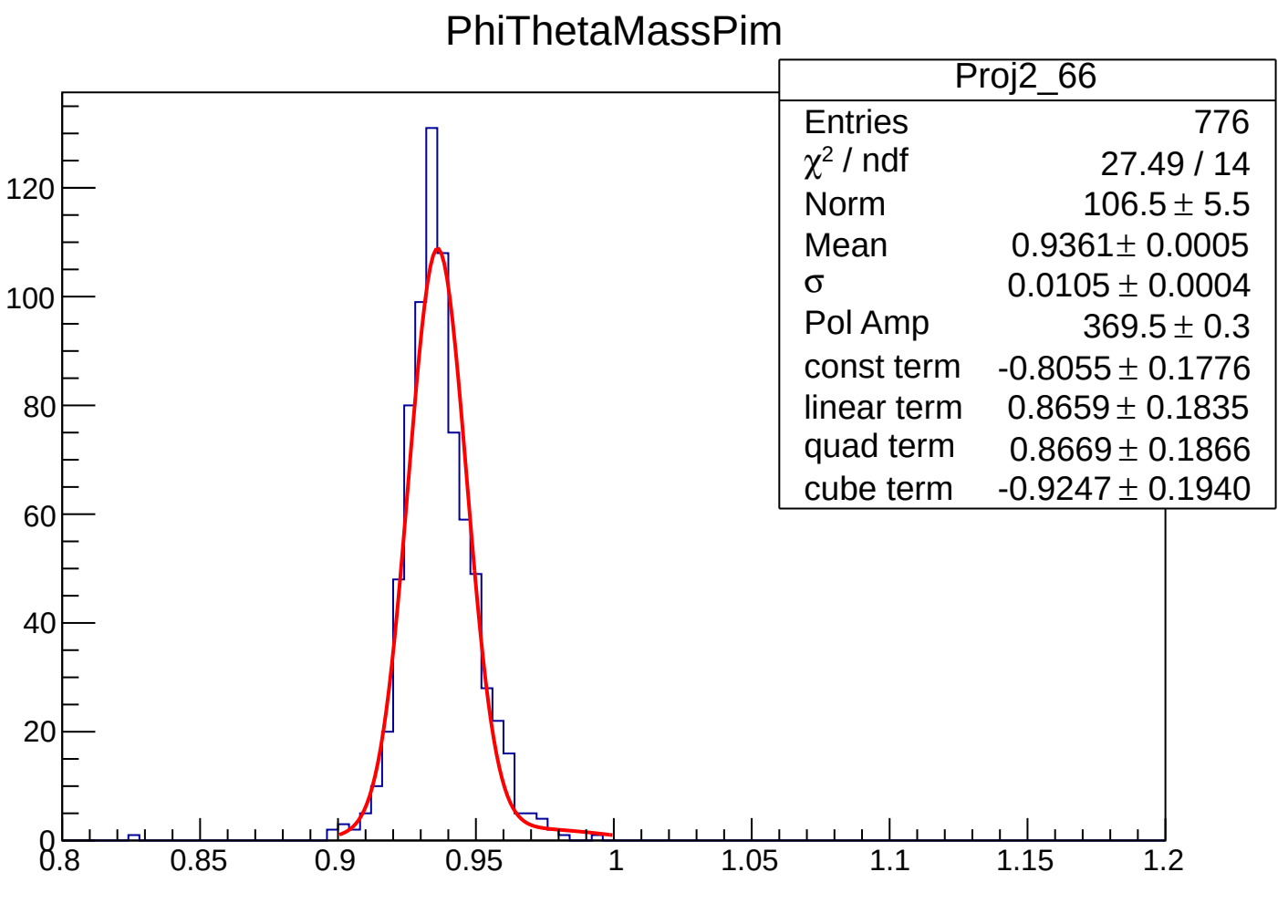

PhiThetaMassPim
Proj2_61
Entries 475
χ² / ndf 20.98 / 12
Norm 69.18 ± 4.59
Mean 0.9291 ± 0.0006
σ 0.009599 ± 0.000530
Pol Amp 481.7 ± 294.6
const term -1.029 ± 0.010
linear term 1.111 ± 0.012
quad term 1.107 ± 0.012
cube term -1.19 ± 0.01
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

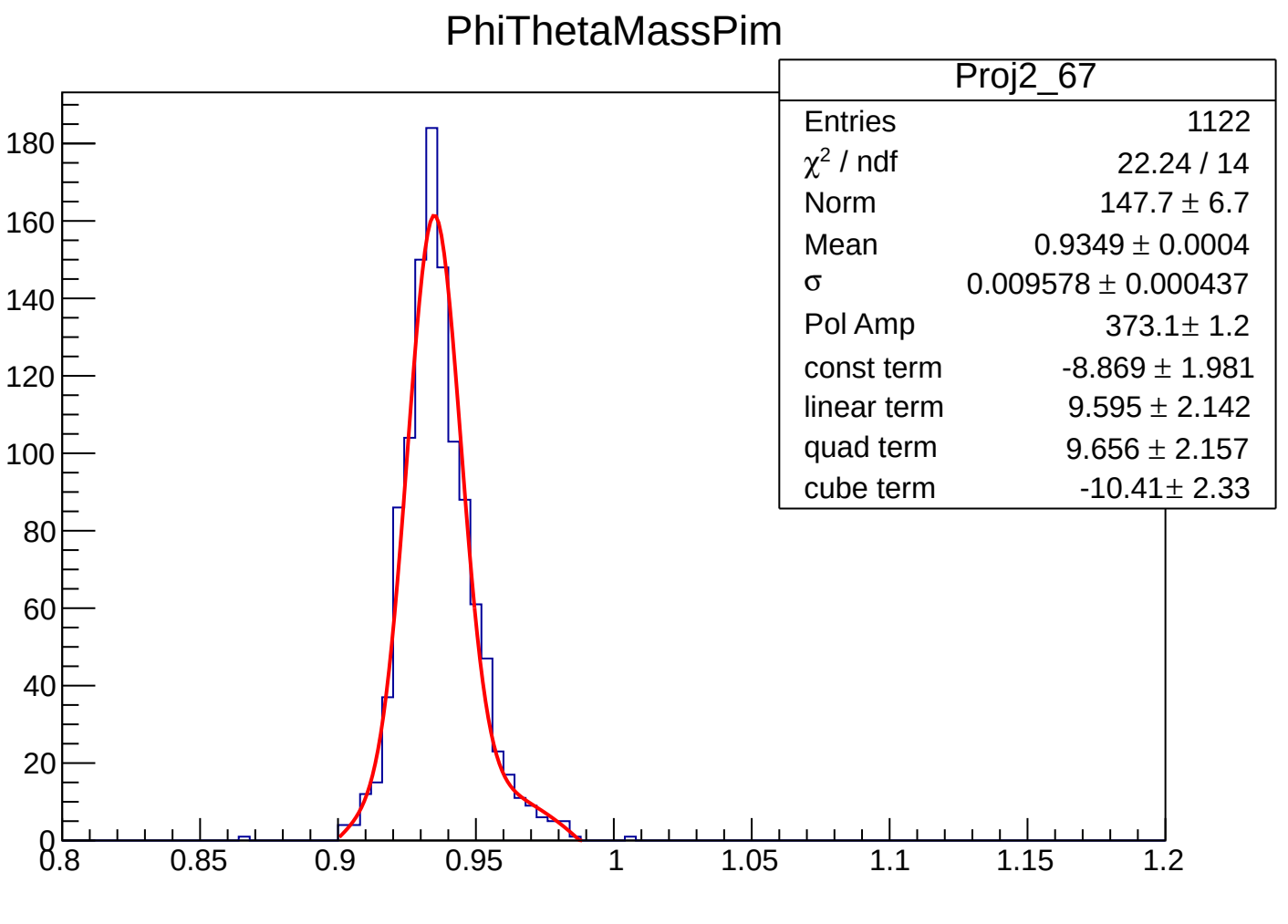

PhiThetaMassPim
Proj2_62
Entries 714
χ² / ndf 18.02 / 12
Norm 101.6 ± 5.7
Mean 0.9354 ± 0.0004
σ 0.009737 ± 0.000528
Pol Amp 368.9 ± 0.5
const term -0.2683 ± 0.0964
linear term 0.3489 ± 0.0901
quad term 0.3063 ± 0.0918
cube term -0.3851 ± 0.0901
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

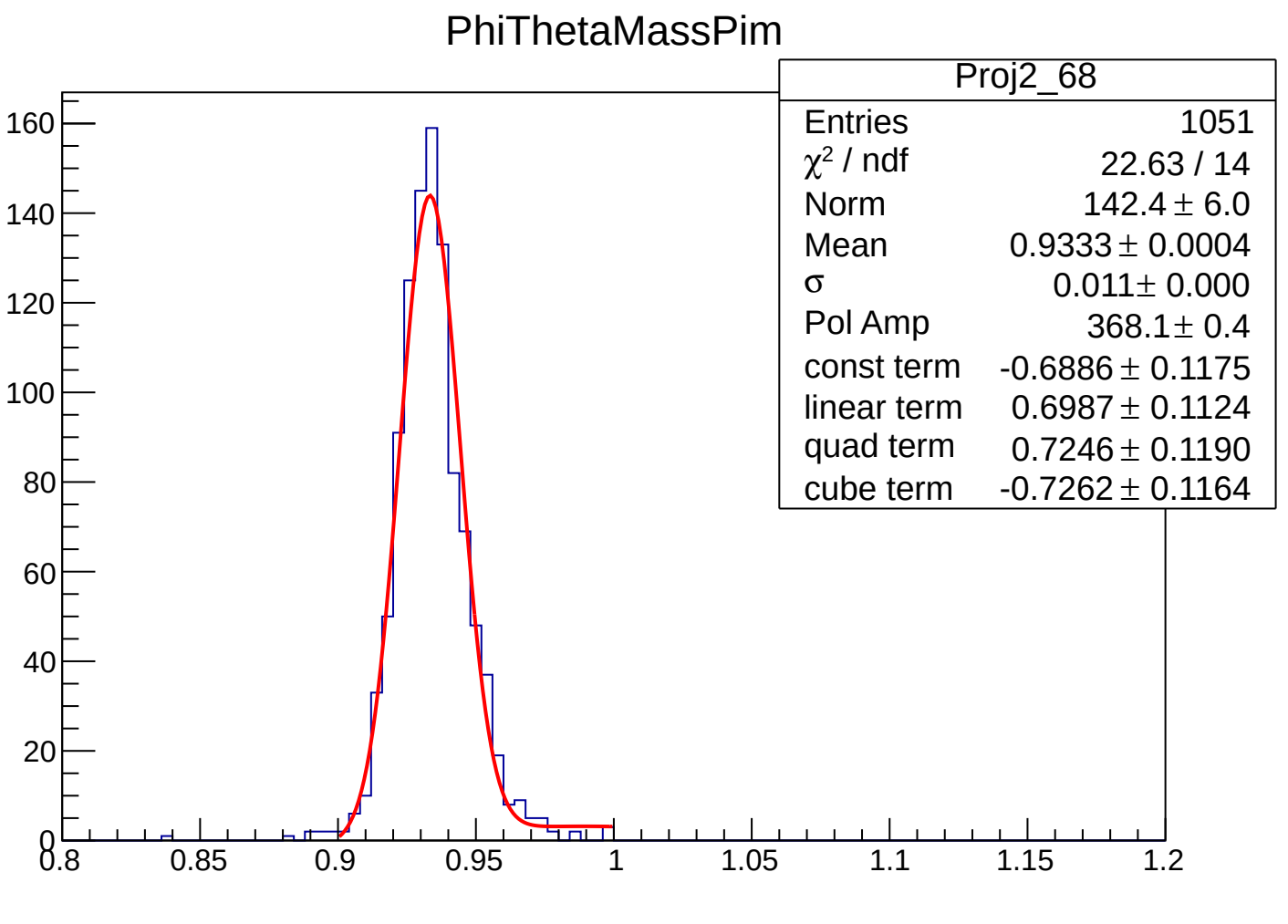

PhiThetaMassPim
Proj2_63
Entries 1158
χ² / ndf 25.61 / 14
Norm 163.9 ± 6.6
Mean 0.9351 ± 0.0004
σ 0.01018 ± 0.00032
Pol Amp 3477 ± 1701.8
const term -0.3385 ± 0.0017
linear term 0.3647 ± 0.0019
quad term 0.366 ± 0.002
cube term -0.3927 ± 0.0019
0
20
40
60
80
100
120
140
160
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

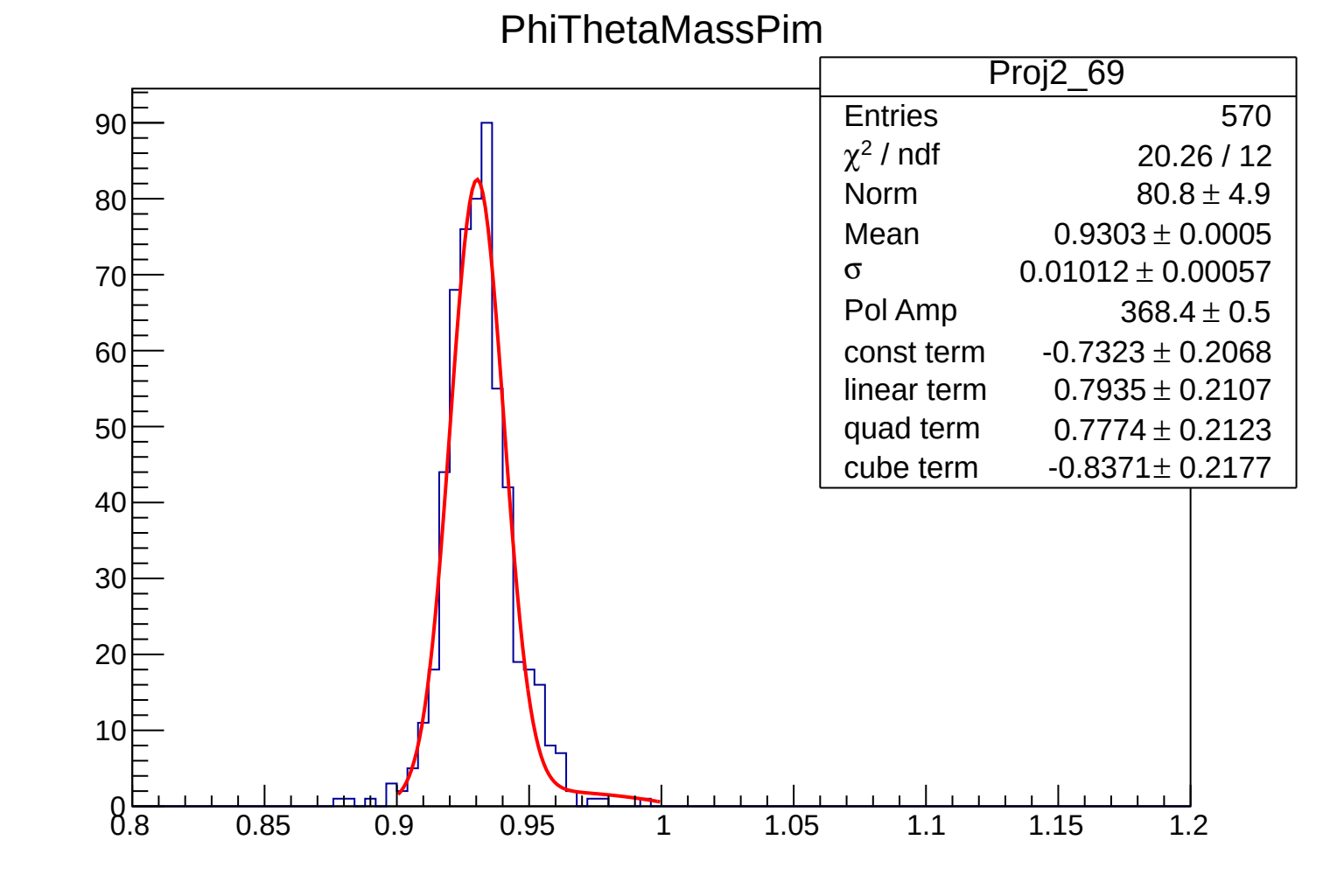

PhiThetaMassPim
Proj2_64
Entries 1169
χ² / ndf 38.51 / 13
Norm 162.6 ± 6.4
Mean 0.934 ± 0.000
σ 0.01081 ± 0.00035
Pol Amp 370.2 ± 0.2
const term -0.3325 ± 0.0632
linear term 0.344 ± 0.053
quad term 0.3494 ± 0.0584
cube term -0.3563 ± 0.0536
0
20
40
60
80
100
120
140
160
180
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

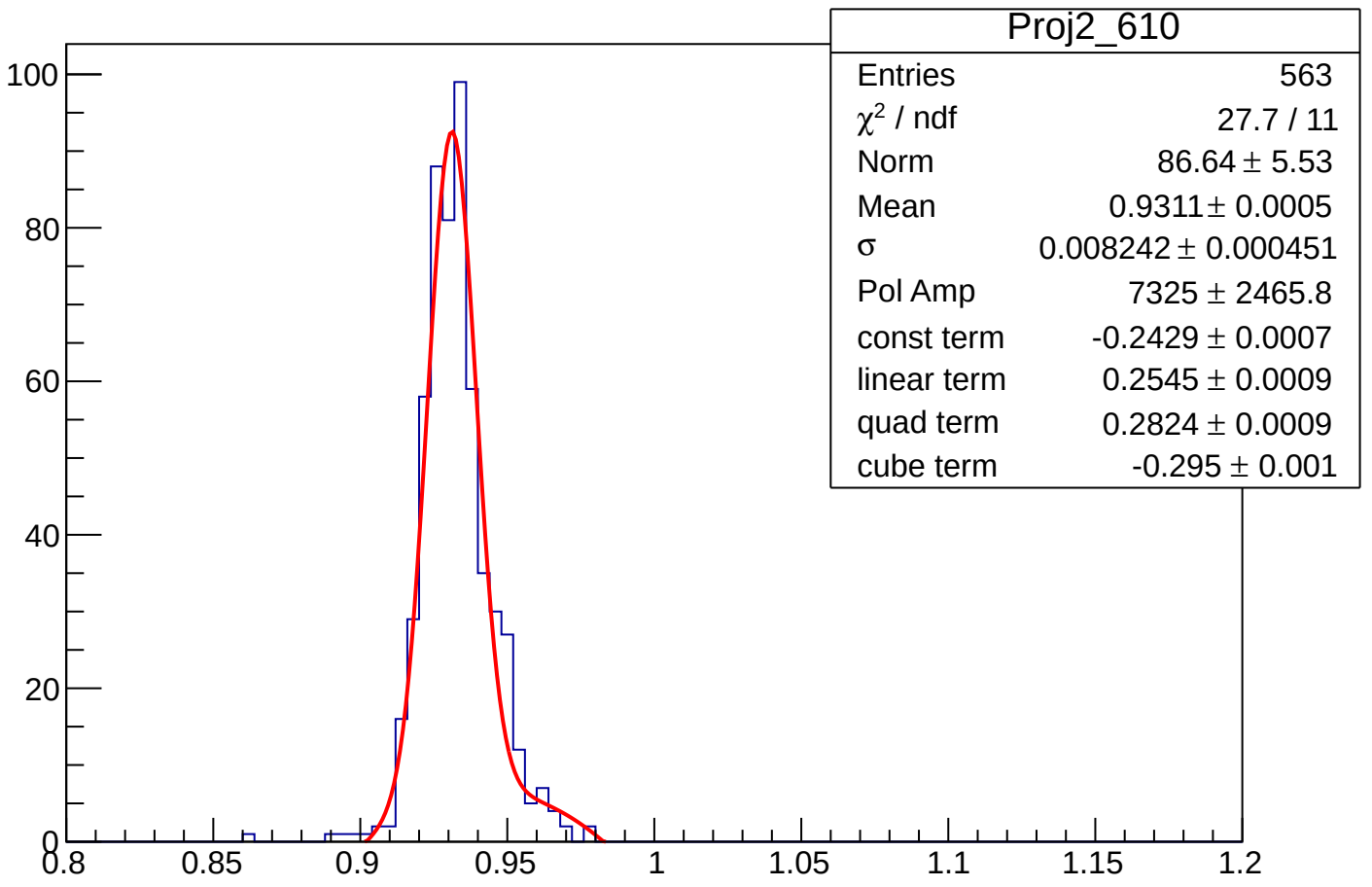

PhiThetaMassPim
Proj2_65
Entries 672
χ² / ndf 22.05 / 11
Norm 105 ± 6.2
Mean 0.9313 ± 0.0004
σ 0.008424 ± 0.000504
Pol Amp 2827 ± 1617.0
const term -0.2923 ± 0.0024
linear term 0.328 ± 0.003
quad term 0.3194 ± 0.0026
cube term -0.3565 ± 0.0026
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

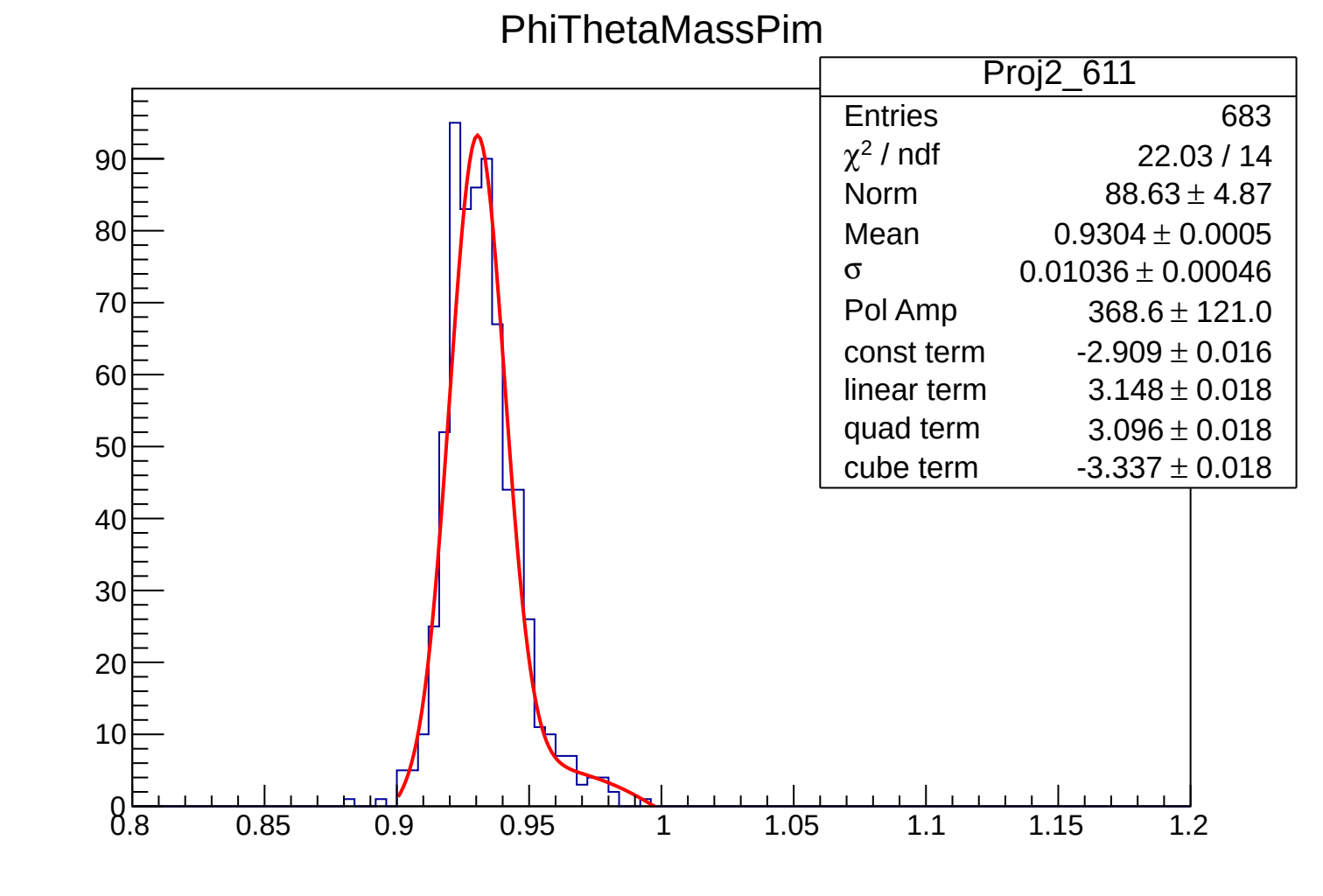

PhiThetaMassPim
Proj2_66
Entries 776
χ² / ndf 27.49 / 14
Norm 106.5 ± 5.5
Mean 0.9361 ± 0.0005
σ 0.0105 ± 0.0004
Pol Amp 369.5 ± 0.3
const term -0.8055 ± 0.1776
linear term 0.8659 ± 0.1835
quad term 0.8669 ± 0.1866
cube term -0.9247 ± 0.1940
0
20
40
60
80
100
120
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_67
Entries 1122
χ² / ndf 22.24 / 14
Norm 147.7 ± 6.7
Mean 0.9349 ± 0.0004
σ 0.009578 ± 0.000437
Pol Amp 373.1± 1.2
const term -8.869 ± 1.981
linear term 9.595 ± 2.142
quad term 9.656 ± 2.157
cube term -10.41± 2.33
0
20
40
60
80
100
120
140
160
180
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_68
Entries 1051
χ² / ndf 22.63 / 14
Norm 142.4 ± 6.0
Mean 0.9333 ± 0.0004
σ 0.011 ± 0.000
Pol Amp 368.1 ± 0.4
const term -0.6886 ± 0.1175
linear term 0.6987 ± 0.1124
quad term 0.7246 ± 0.1190
cube term -0.7262 ± 0.1164
160
140
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_69
Entries 570
χ² / ndf 20.26 / 12
Norm 80.8 ± 4.9
Mean 0.9303 ± 0.0005
σ 0.01012 ± 0.00057
Pol Amp 368.4 ± 0.5
const term -0.7323 ± 0.2068
linear term 0.7935 ± 0.2107
quad term 0.7774 ± 0.2123
cube term -0.8371 ± 0.2177
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_610
Entries 563
χ² / ndf 27.7 / 11
Norm 86.64 ± 5.53
Mean 0.9311 ± 0.0005
σ 0.008242 ± 0.000451
Pol Amp 7325 ± 2465.8
const term -0.2429 ± 0.0007
linear term 0.2545 ± 0.0009
quad term 0.2824 ± 0.0009
cube term -0.295 ± 0.001
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_611
Entries 683
χ² / ndf 22.03 / 14
Norm 88.63 ± 4.87
Mean 0.9304 ± 0.0005
σ 0.01036 ± 0.00046
Pol Amp 368.6 ± 121.0
const term -2.909 ± 0.016
linear term 3.148 ± 0.018
quad term 3.096 ± 0.018
cube term -3.337 ± 0.018
0
10
20
30
40
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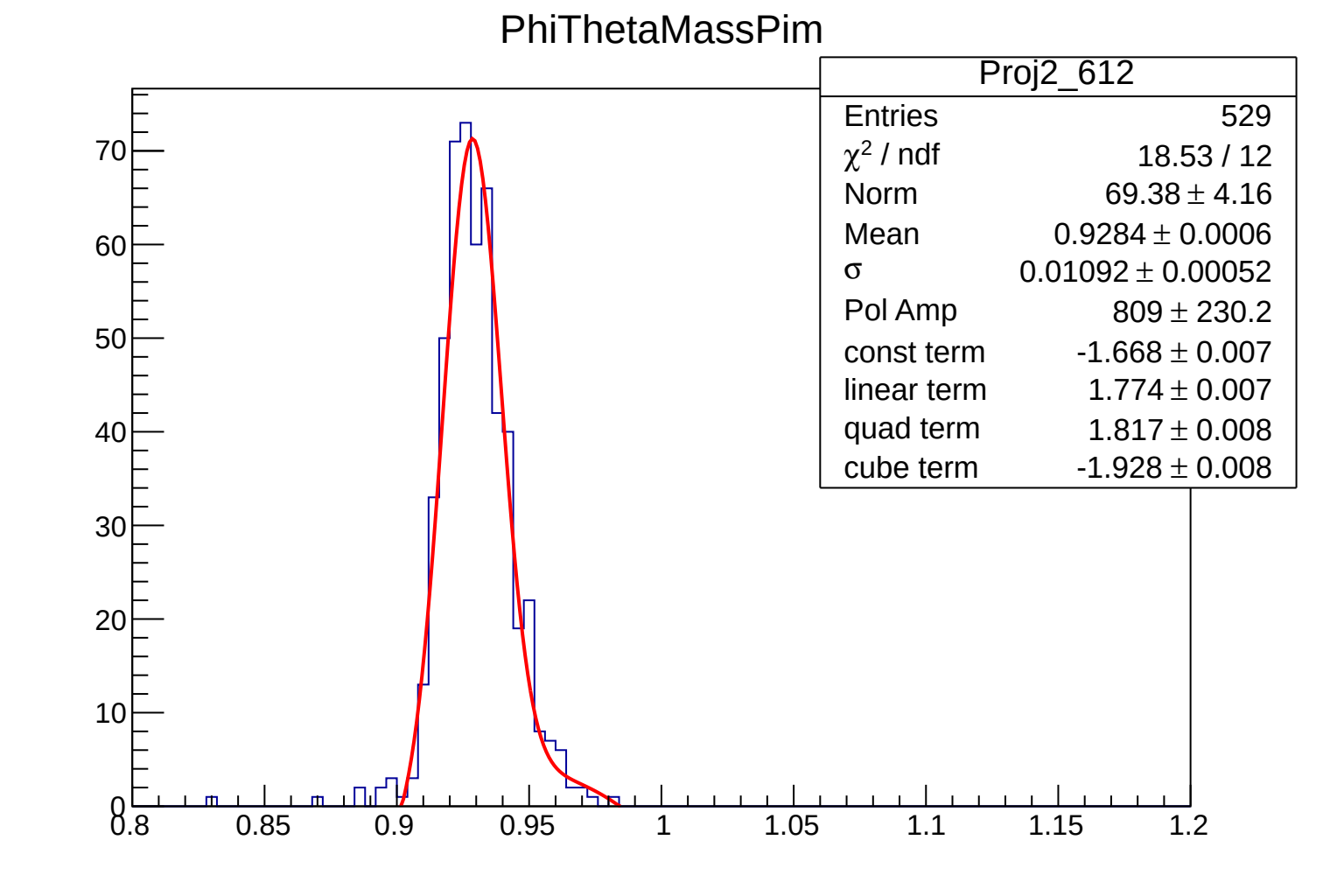
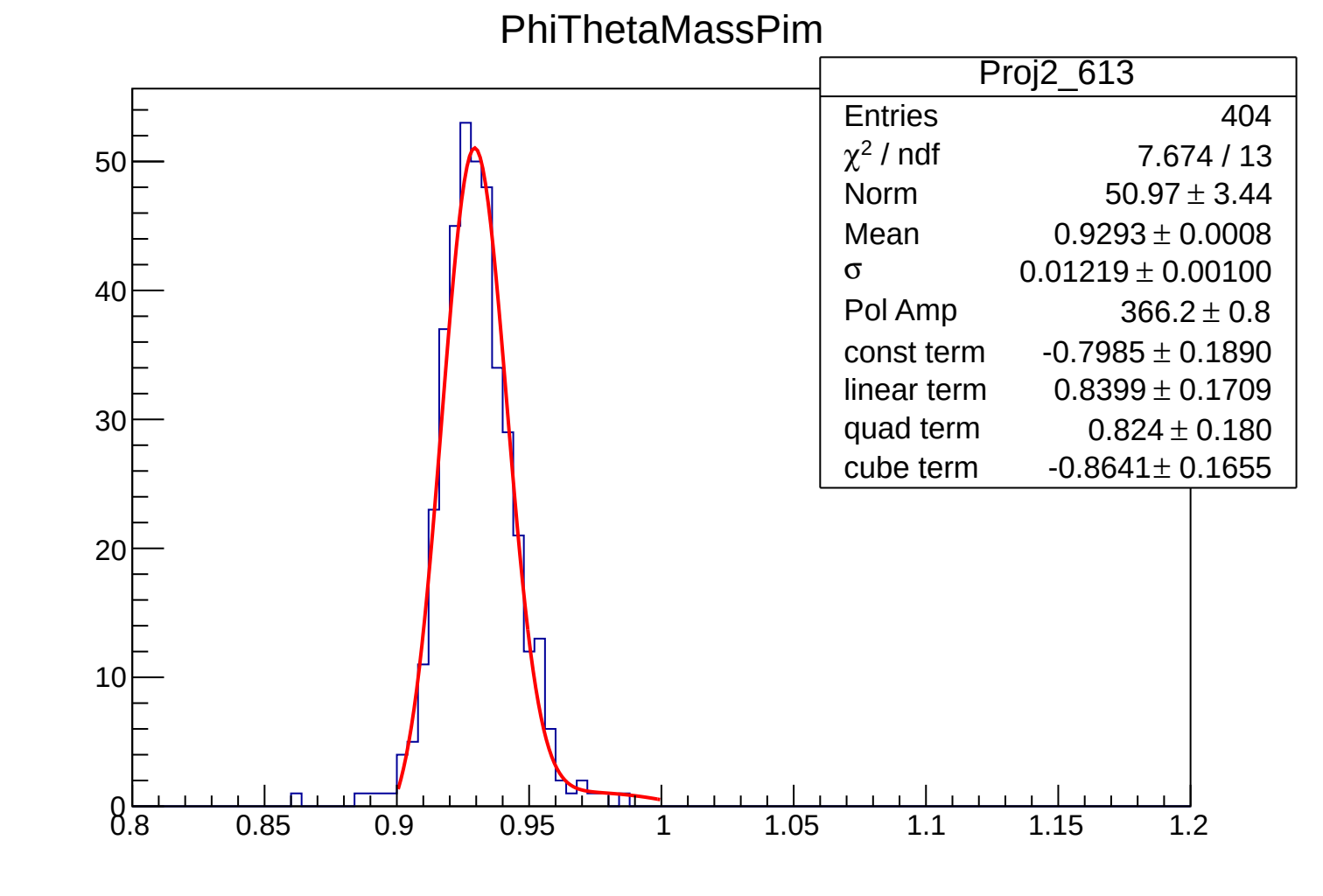
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_612
Entries 529
χ² / ndf 18.53 / 12
Norm 69.38 ± 4.16
Mean 0.9284 ± 0.0006
σ 0.01092 ± 0.00052
Pol Amp 809 ± 230.2
const term -1.668 ± 0.007
linear term 1.774 ± 0.007
quad term 1.817 ± 0.008
cube term -1.928 ± 0.008
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_613
Entries 404
χ² / ndf 7.674 / 13
Norm 50.97 ± 3.44
Mean 0.9293 ± 0.0008
σ 0.01219 ± 0.00100
Pol Amp 366.2 ± 0.8
const term -0.7985 ± 0.1890
linear term 0.8399 ± 0.1709
quad term 0.824 ± 0.180
cube term -0.8641 ± 0.1655
0
10
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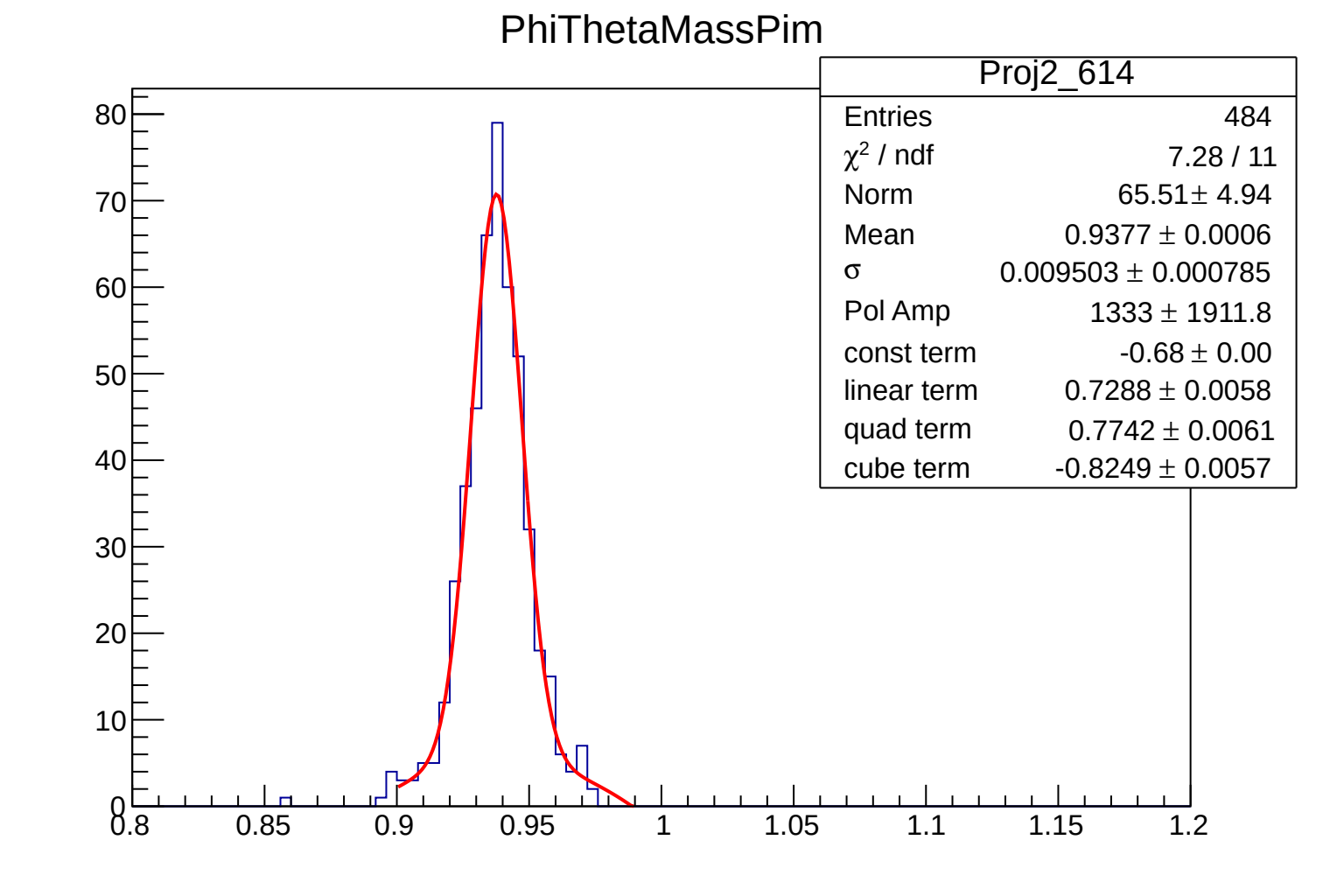
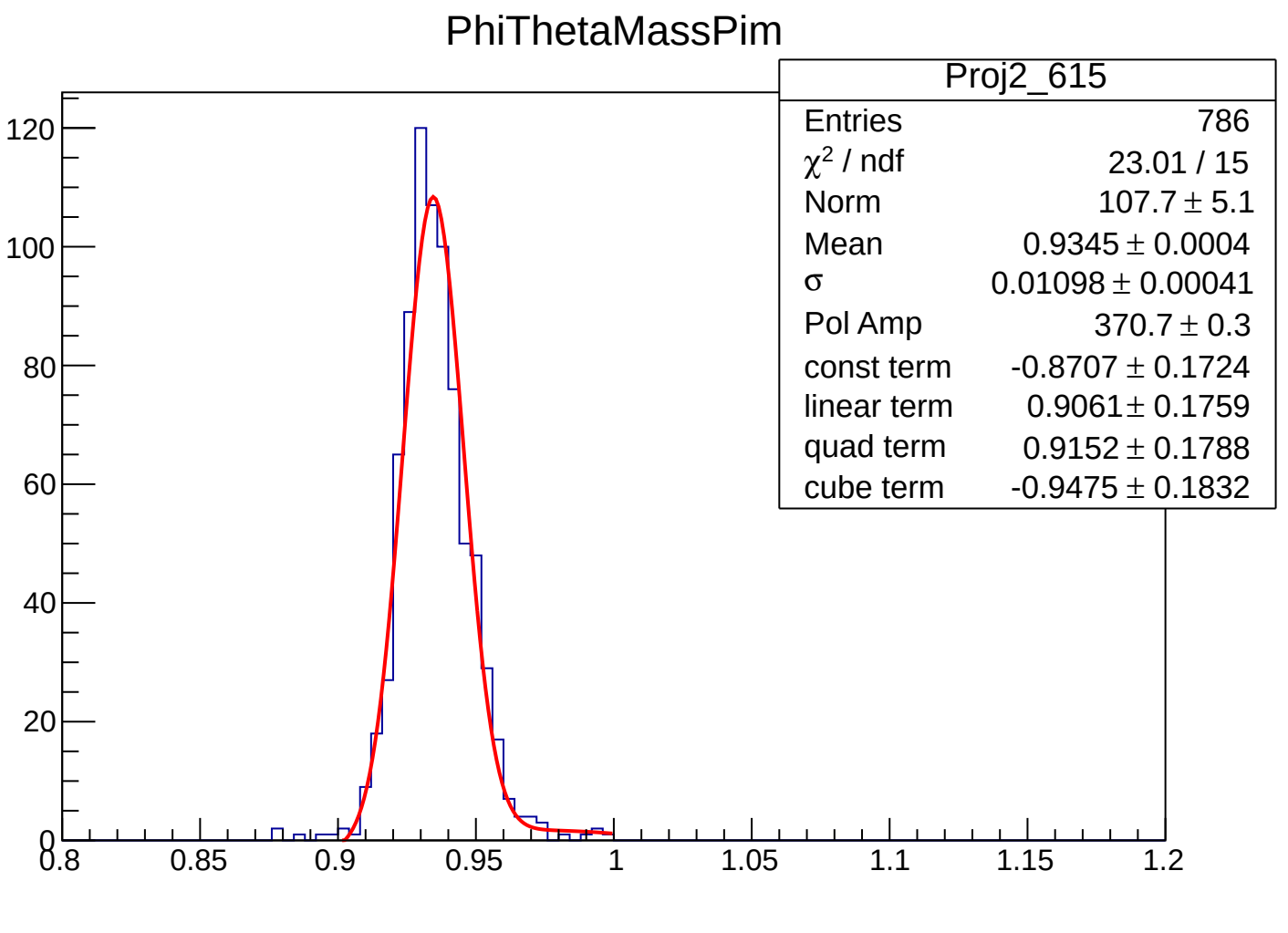
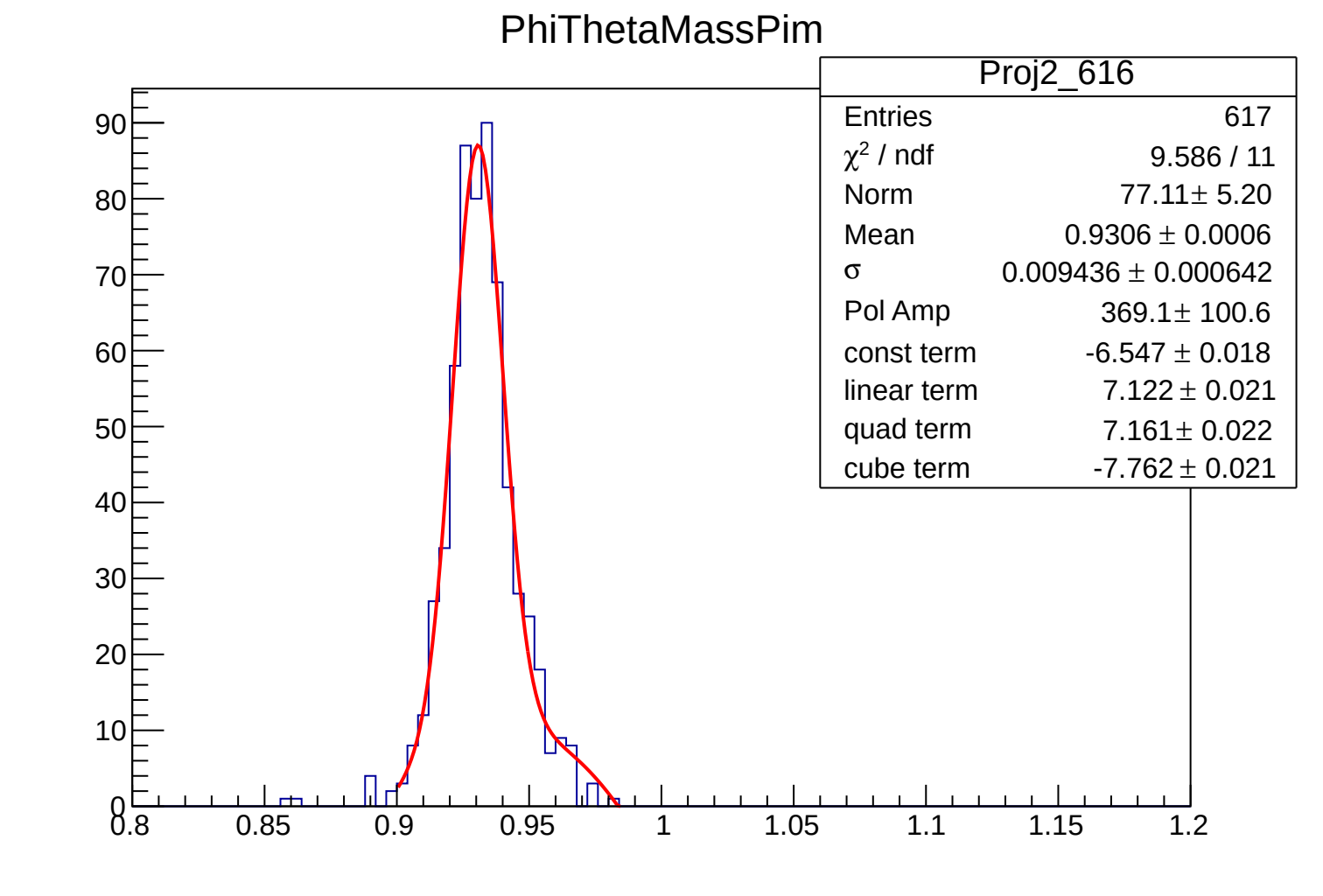
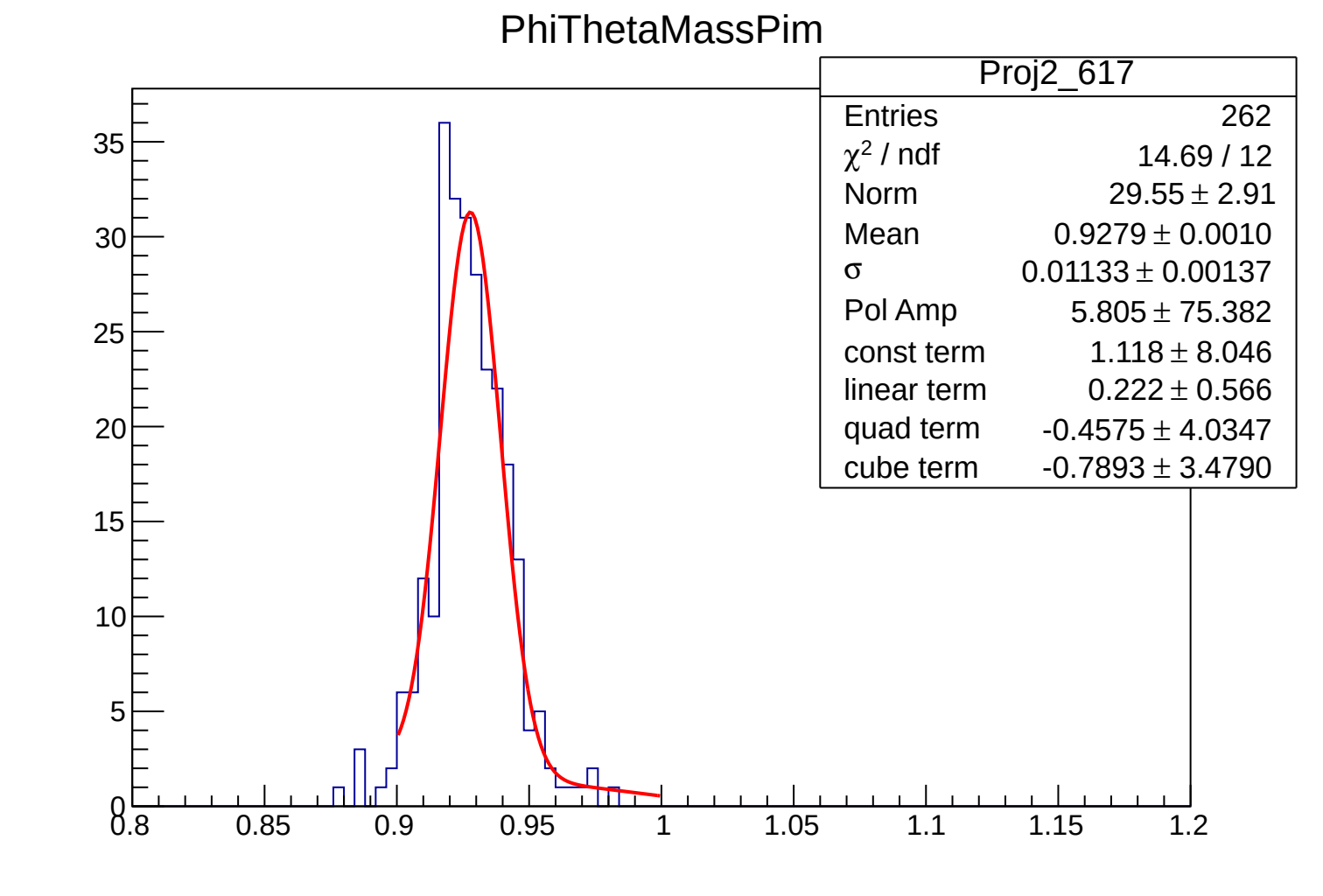
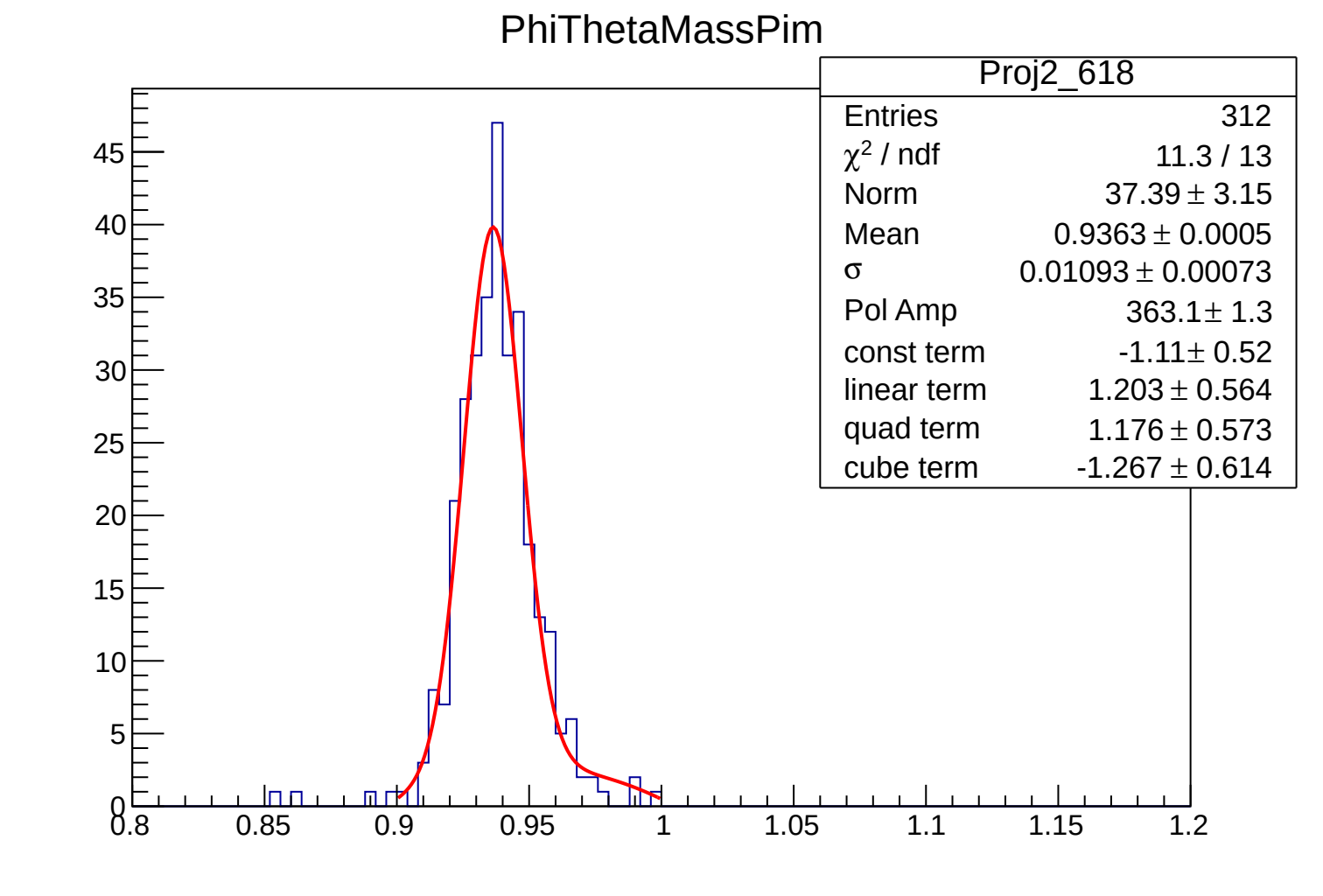
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

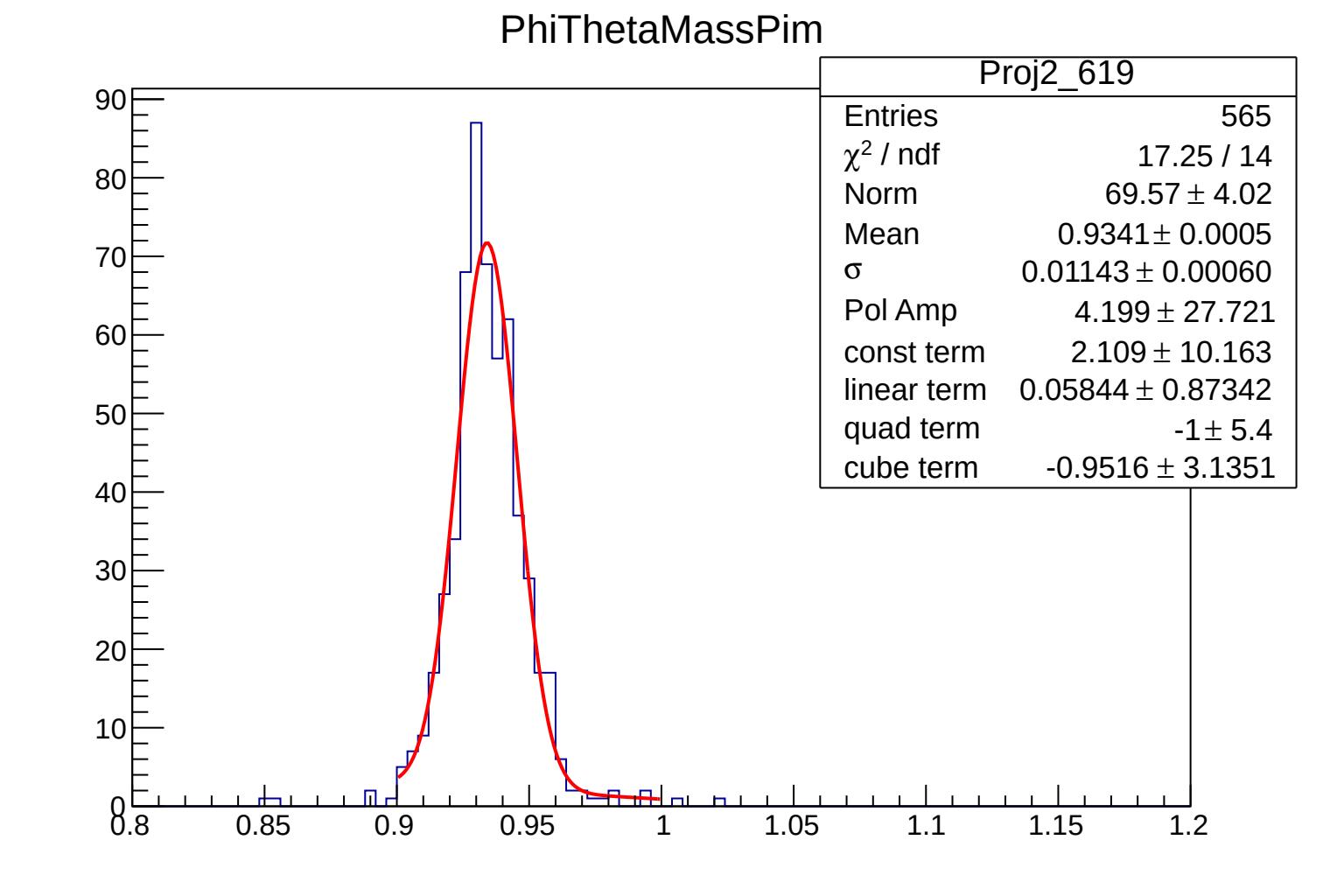

PhiThetaMassPim
Proj2_614
Entries 484
χ² / ndf 7.28 / 11
Norm 65.51 ± 4.94
Mean 0.9377 ± 0.0006
σ 0.009503 ± 0.000785
Pol Amp 1333 ± 1911.8
const term -0.68 ± 0.00
linear term 0.7288 ± 0.0058
quad term 0.7742 ± 0.0061
cube term -0.8249 ± 0.0057
0 10 20 30 40 50 60 70 80
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

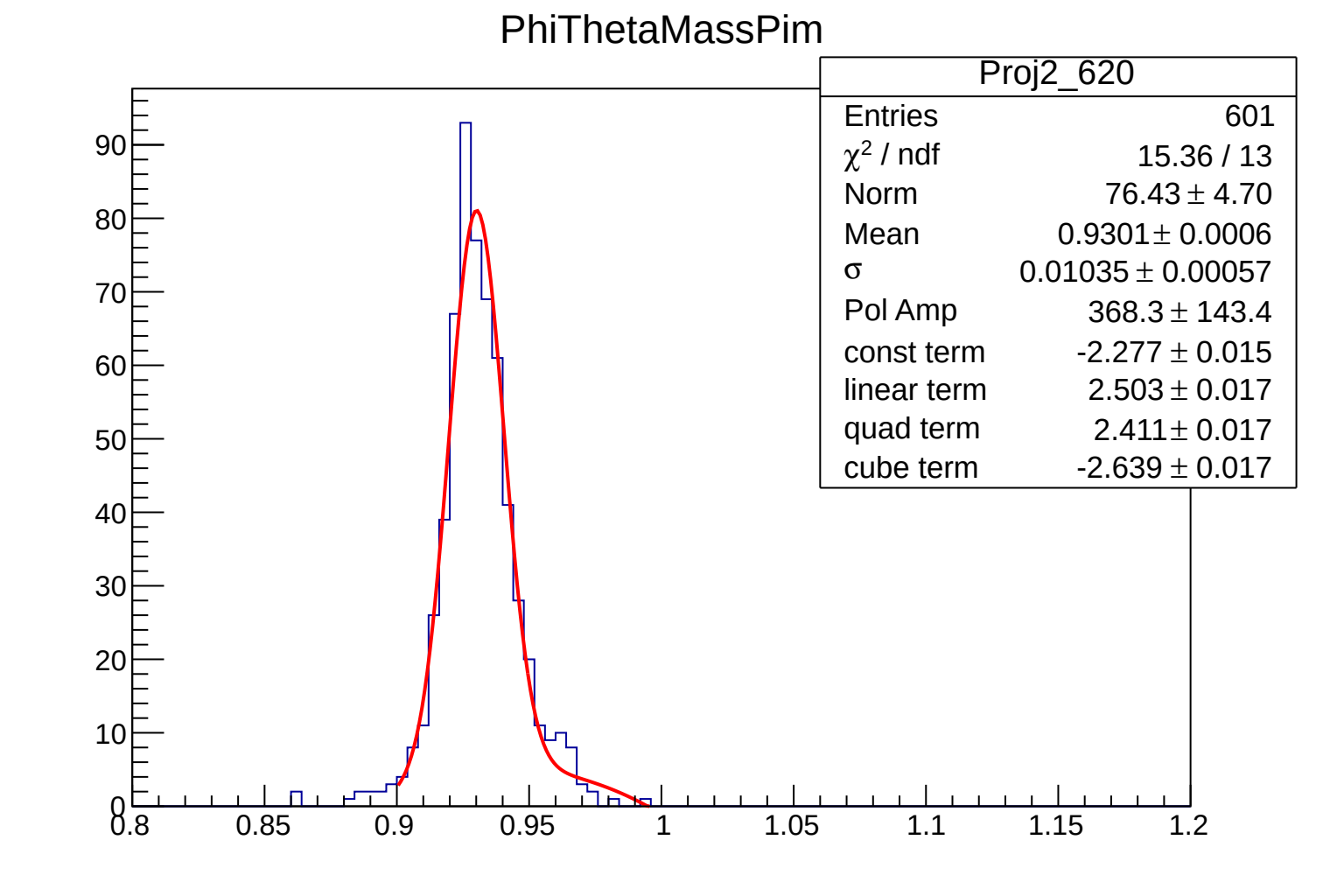

PhiThetaMassPim
Proj2_615
Entries 786
χ² / ndf 23.01 / 15
Norm 107.7 ± 5.1
Mean 0.9345 ± 0.0004
σ 0.01098 ± 0.00041
Pol Amp 370.7 ± 0.3
const term -0.8707 ± 0.1724
linear term 0.9061 ± 0.1759
quad term 0.9152 ± 0.1788
cube term -0.9475 ± 0.1832
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

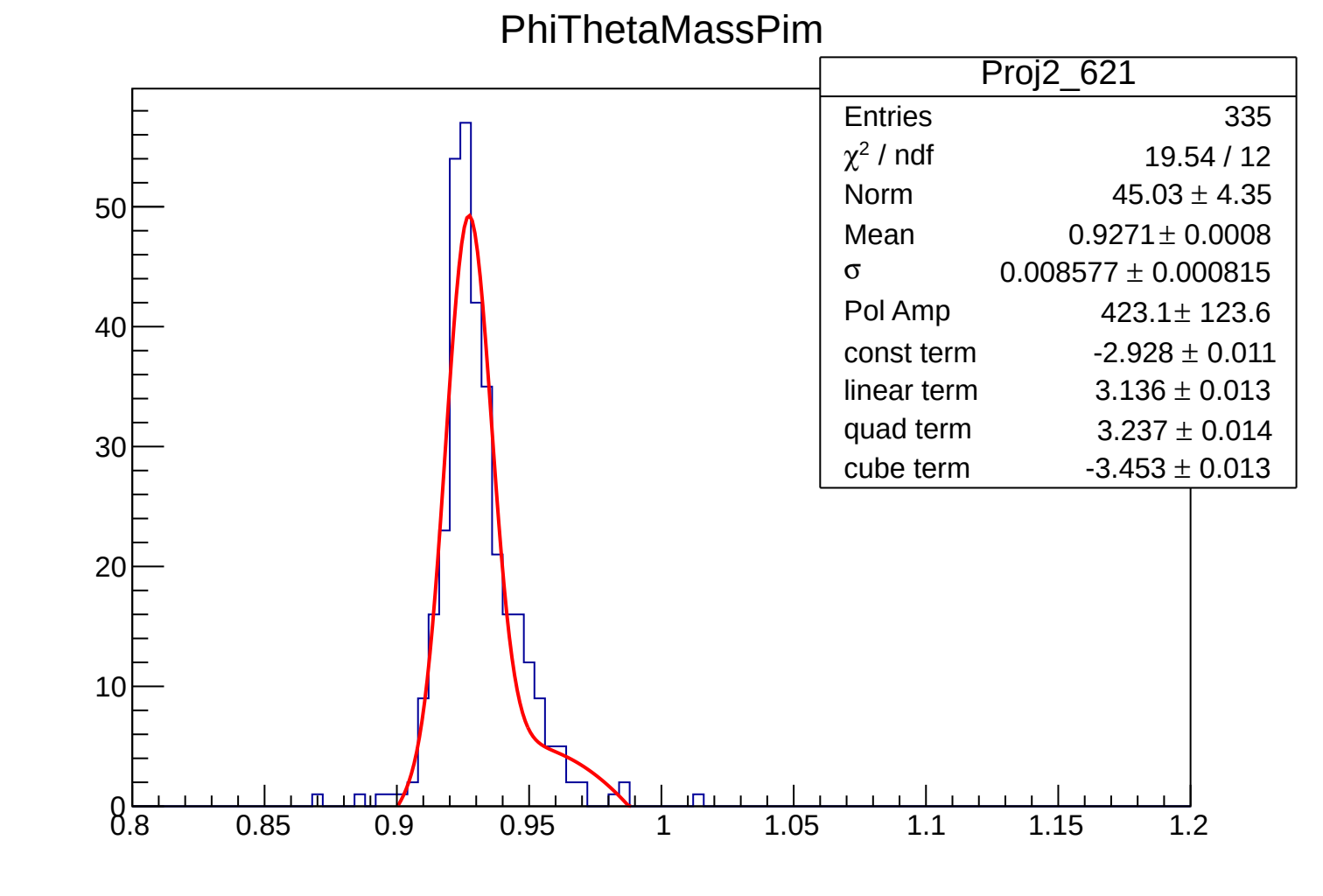

PhiThetaMassPim
Proj2_616
Entries 617
χ² / ndf 9.586 / 11
Norm 77.11 ± 5.20
Mean 0.9306 ± 0.0006
σ 0.009436 ± 0.000642
Pol Amp 369.1 ± 100.6
const term -6.547 ± 0.018
linear term 7.122 ± 0.021
quad term 7.161 ± 0.022
cube term -7.762 ± 0.021
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

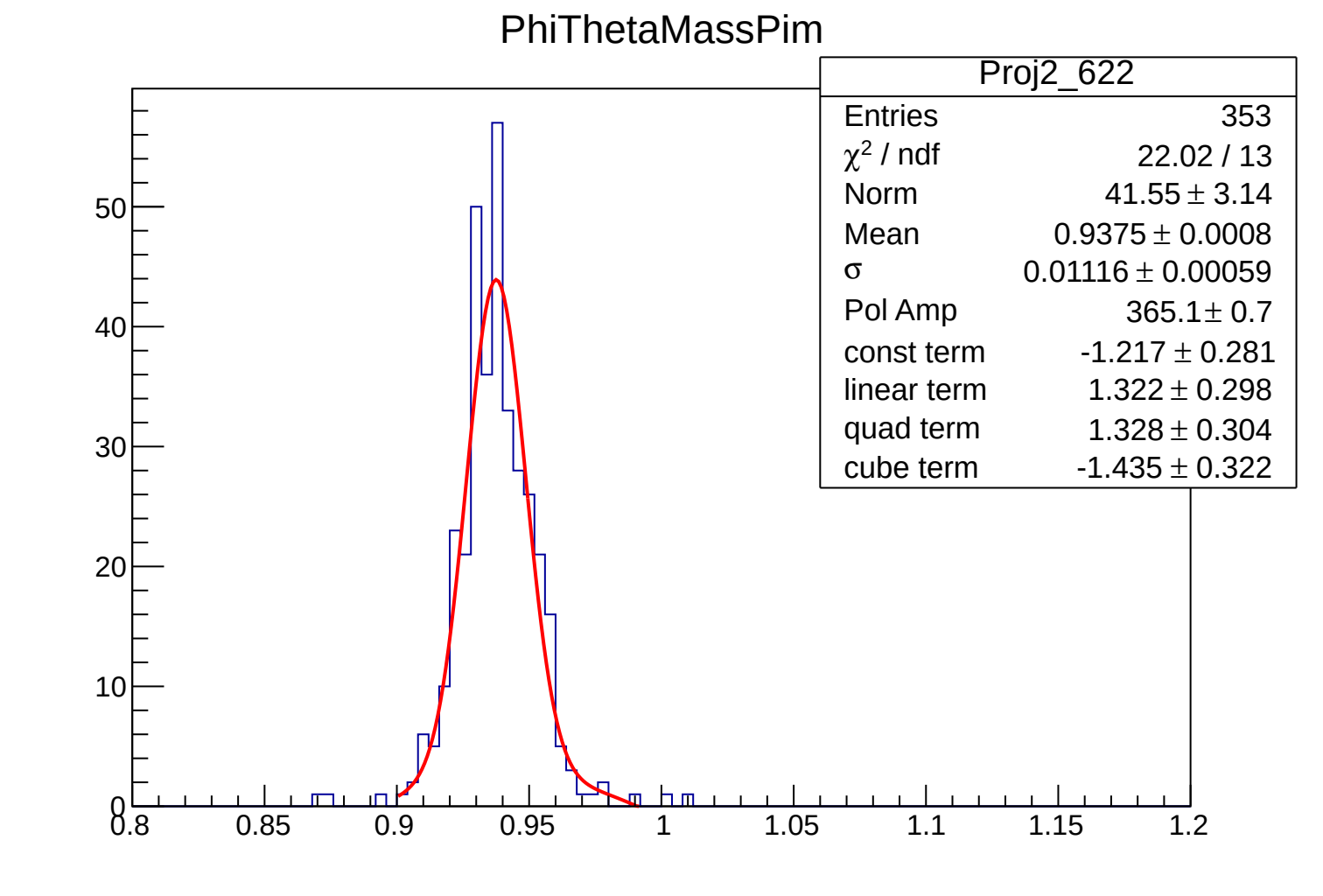

PhiThetaMassPim
Proj2_617
Entries 262
χ² / ndf 14.69 / 12
Norm 29.55 ± 2.91
Mean 0.9279 ± 0.0010
σ 0.01133 ± 0.00137
Pol Amp 5.805 ± 75.382
const term 1.118 ± 8.046
linear term 0.222 ± 0.566
quad term -0.4575 ± 4.0347
cube term -0.7893 ± 3.4790
0
5
10
15
20
25
30
35
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

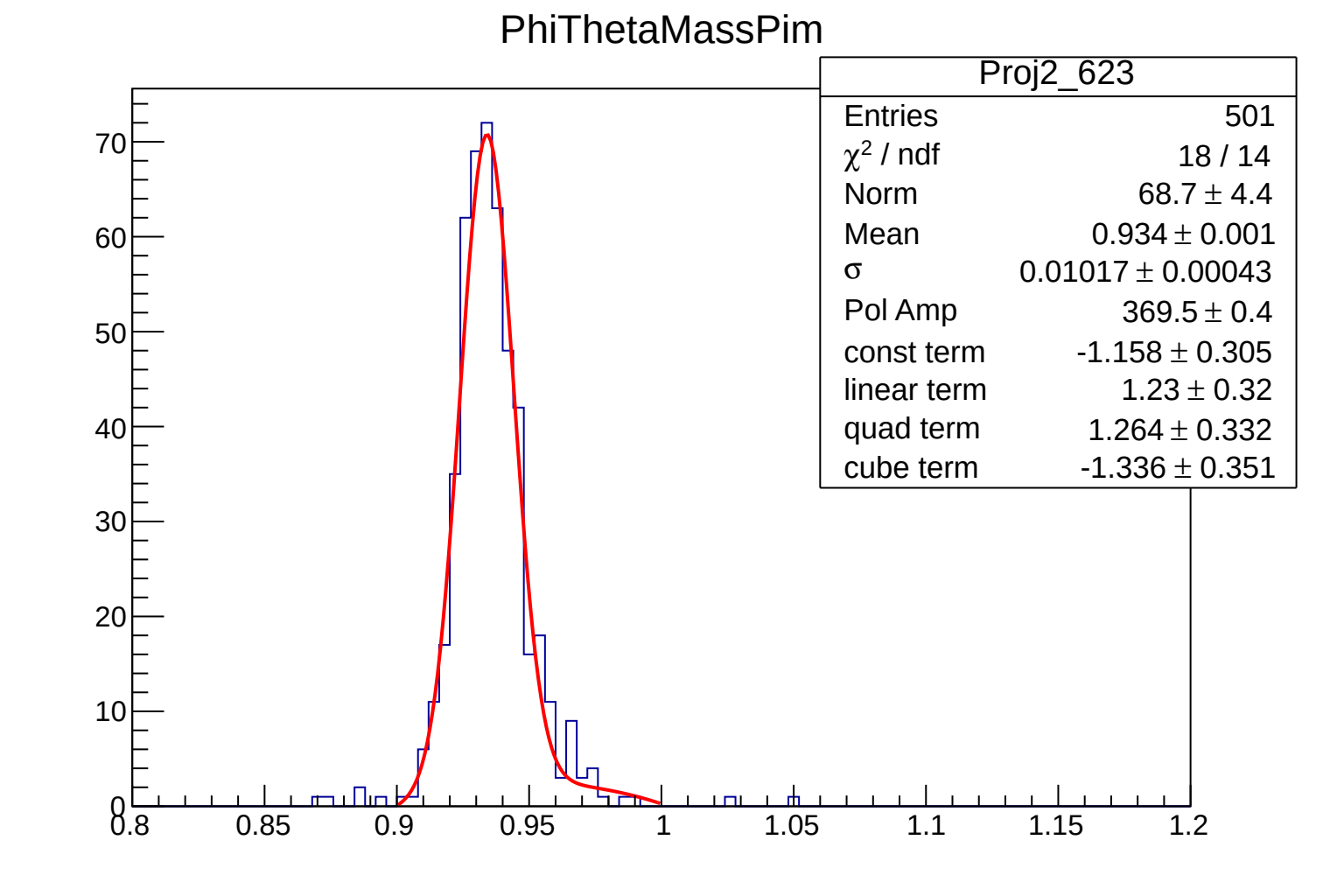

PhiThetaMassPim
Proj2_618
Entries 312
χ² / ndf 11.3 / 13
Norm 37.39 ± 3.15
Mean 0.9363 ± 0.0005
σ 0.01093 ± 0.00073
Pol Amp 363.1 ± 1.3
const term -1.11 ± 0.52
linear term 1.203 ± 0.564
quad term 1.176 ± 0.573
cube term -1.267 ± 0.614
0
5
10
15
20
25
30
35
40
45
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

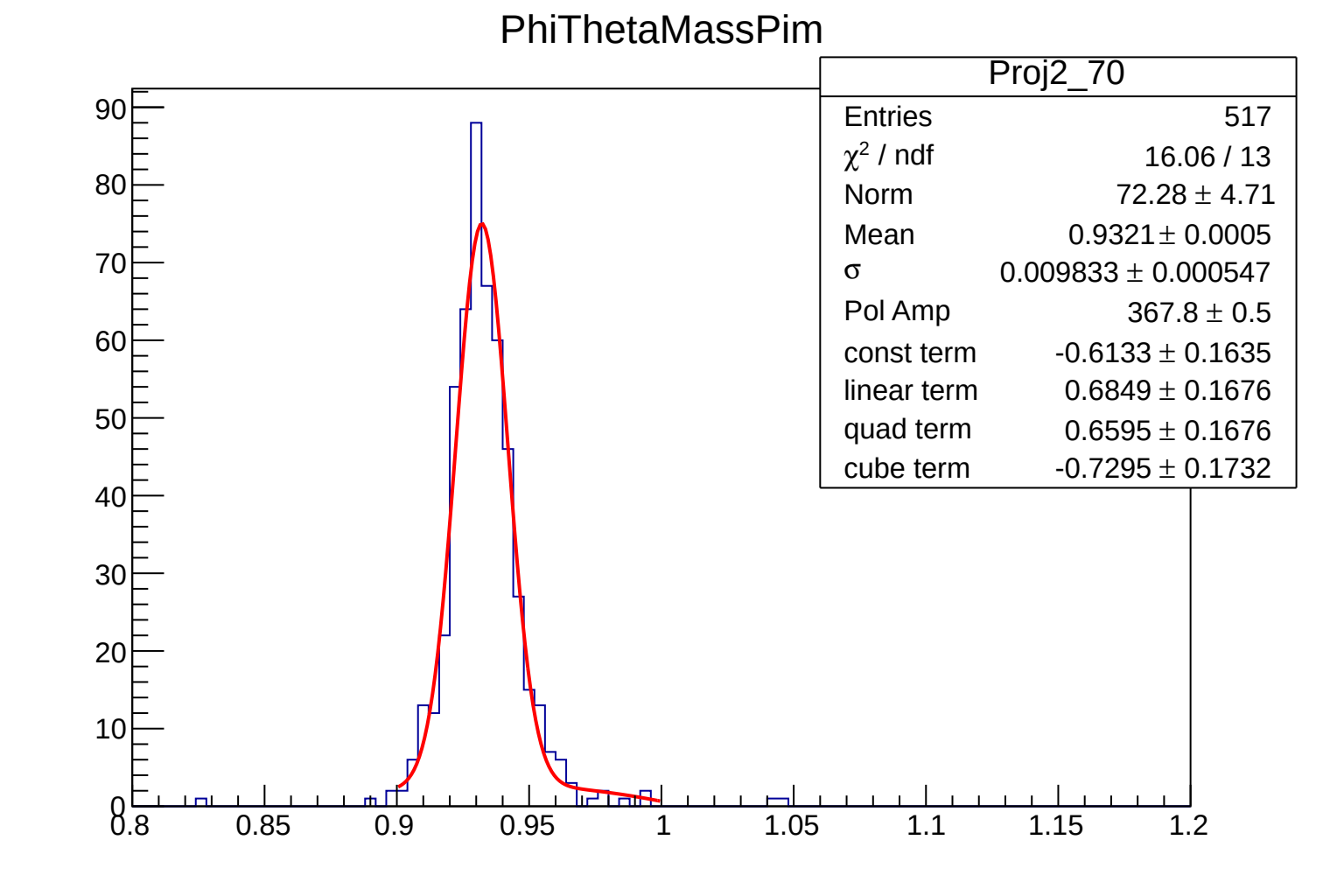

PhiThetaMassPim
Proj2_619
Entries 565
χ² / ndf 17.25 / 14
Norm 69.57 ± 4.02
Mean 0.9341 ± 0.0005
σ 0.01143 ± 0.00060
Pol Amp 4.199 ± 27.721
const term 2.109 ± 10.163
linear term 0.05844 ± 0.87342
quad term -1 ± 5.4
cube term -0.9516 ± 3.1351
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

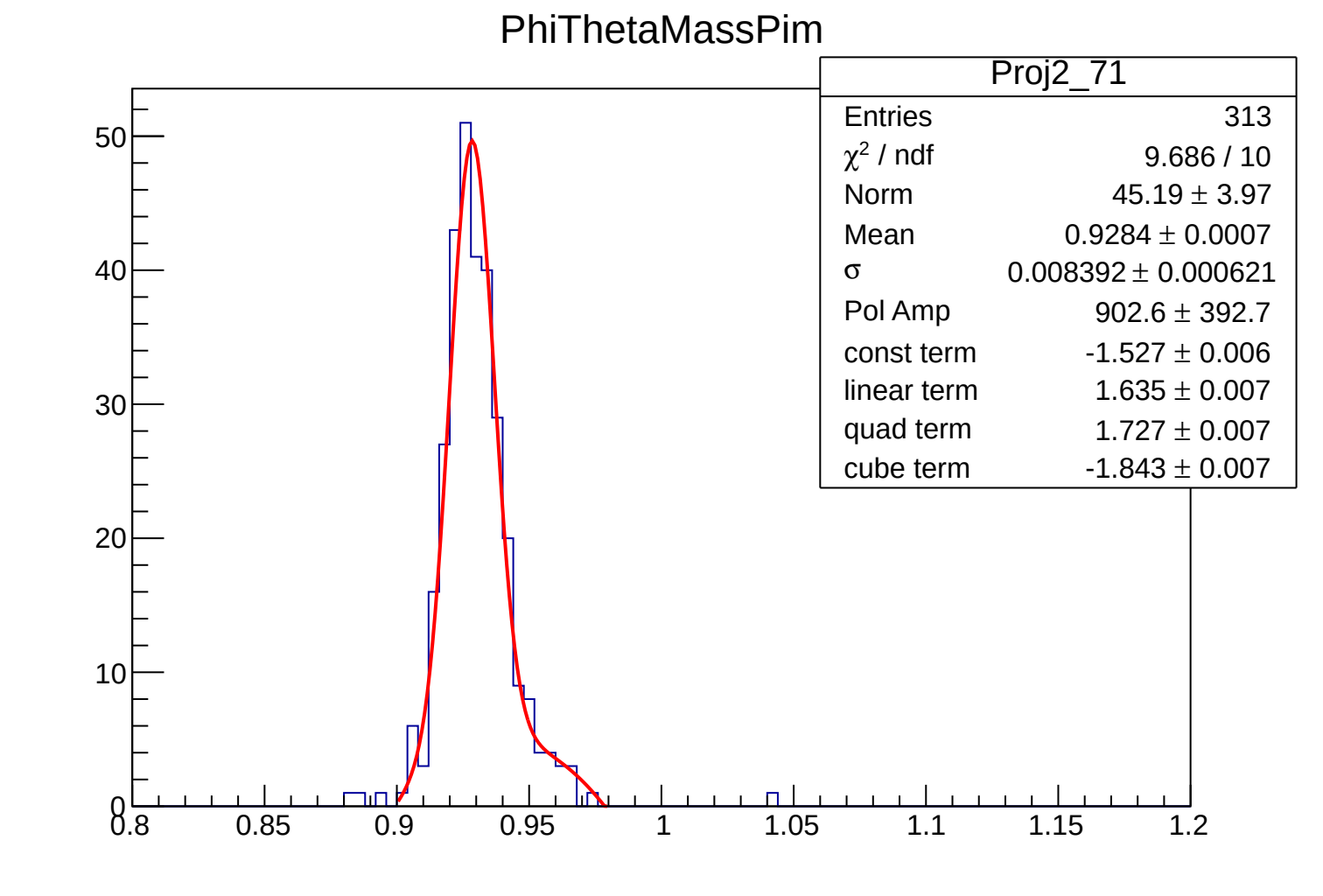

PhiThetaMassPim
Proj2_620
Entries 601
χ² / ndf 15.36 / 13
Norm 76.43 ± 4.70
Mean 0.9301 ± 0.0006
σ 0.01035 ± 0.00057
Pol Amp 368.3 ± 143.4
const term -2.277 ± 0.015
linear term 2.503 ± 0.017
quad term 2.411 ± 0.017
cube term -2.639 ± 0.017
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

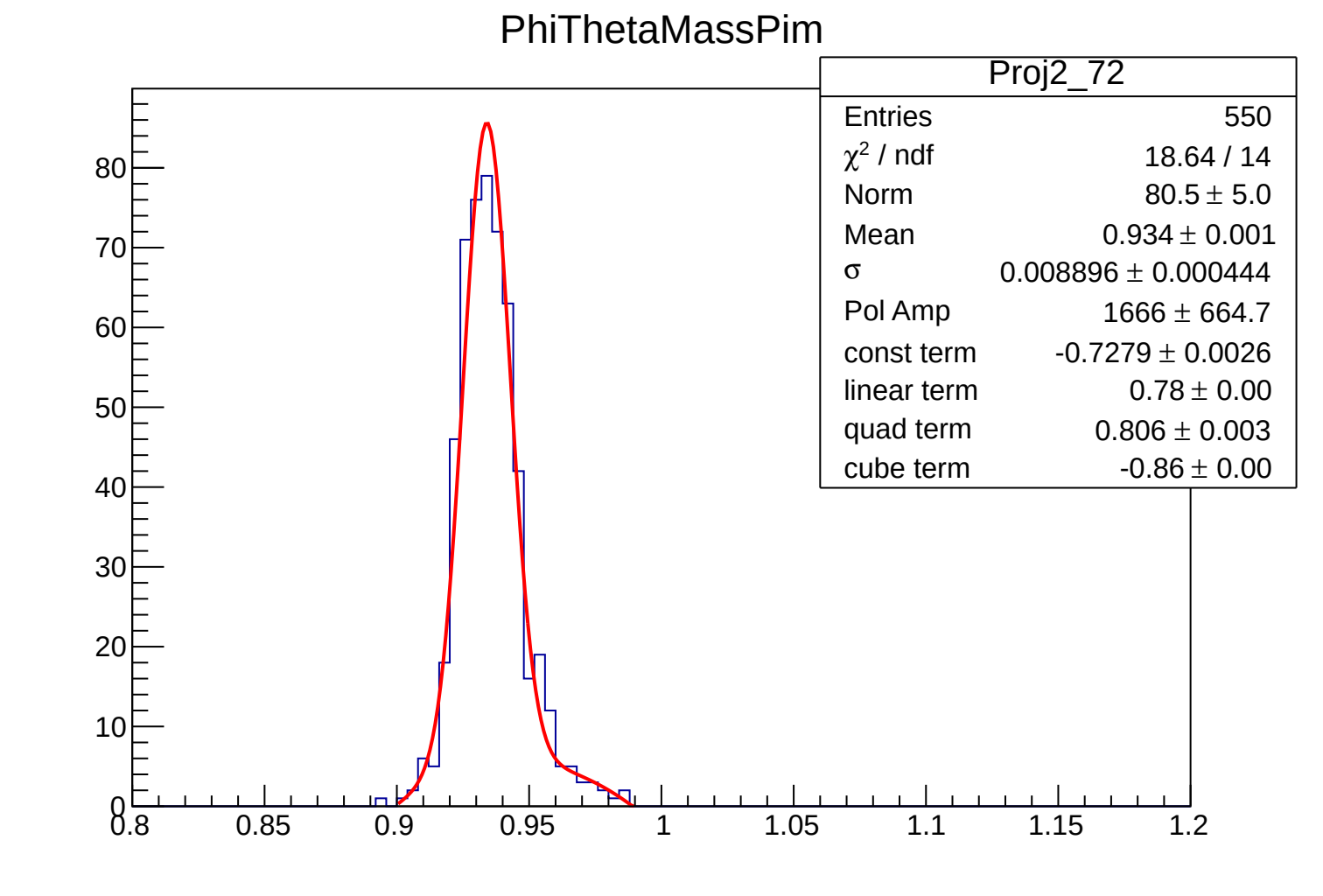

PhiThetaMassPim
Proj2_621
Entries 335
χ² / ndf 19.54 / 12
Norm 45.03 ± 4.35
Mean 0.9271 ± 0.0008
σ 0.008577 ± 0.000815
Pol Amp 423.1 ± 123.6
const term -2.928 ± 0.011
linear term 3.136 ± 0.013
quad term 3.237 ± 0.014
cube term -3.453 ± 0.013
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

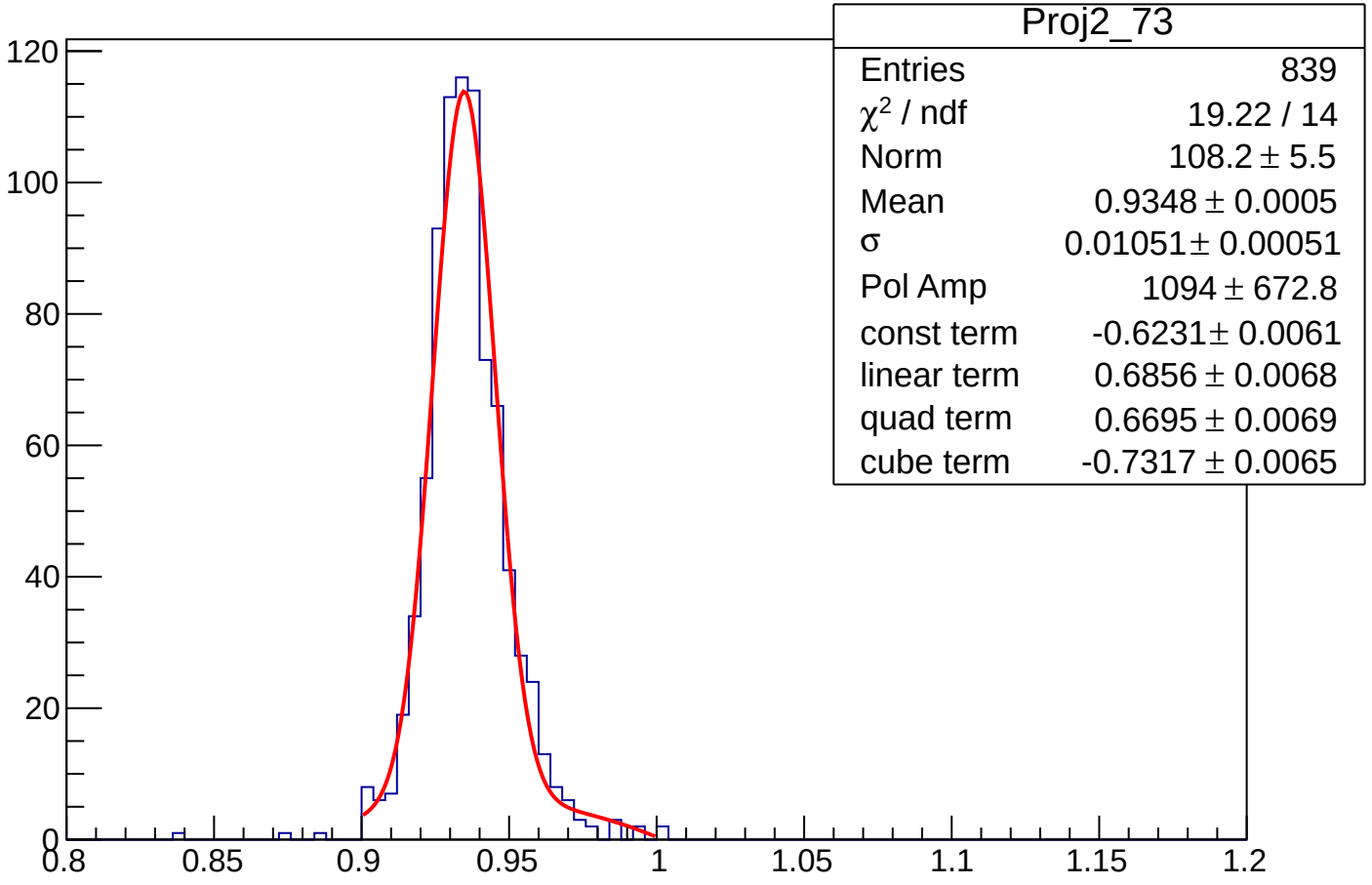

PhiThetaMassPim
Proj2_622
Entries 353
χ² / ndf 22.02 / 13
Norm 41.55 ± 3.14
Mean 0.9375 ± 0.0008
σ 0.01116 ± 0.00059
Pol Amp 365.1 ± 0.7
const term -1.217 ± 0.281
linear term 1.322 ± 0.298
quad term 1.328 ± 0.304
cube term -1.435 ± 0.322
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

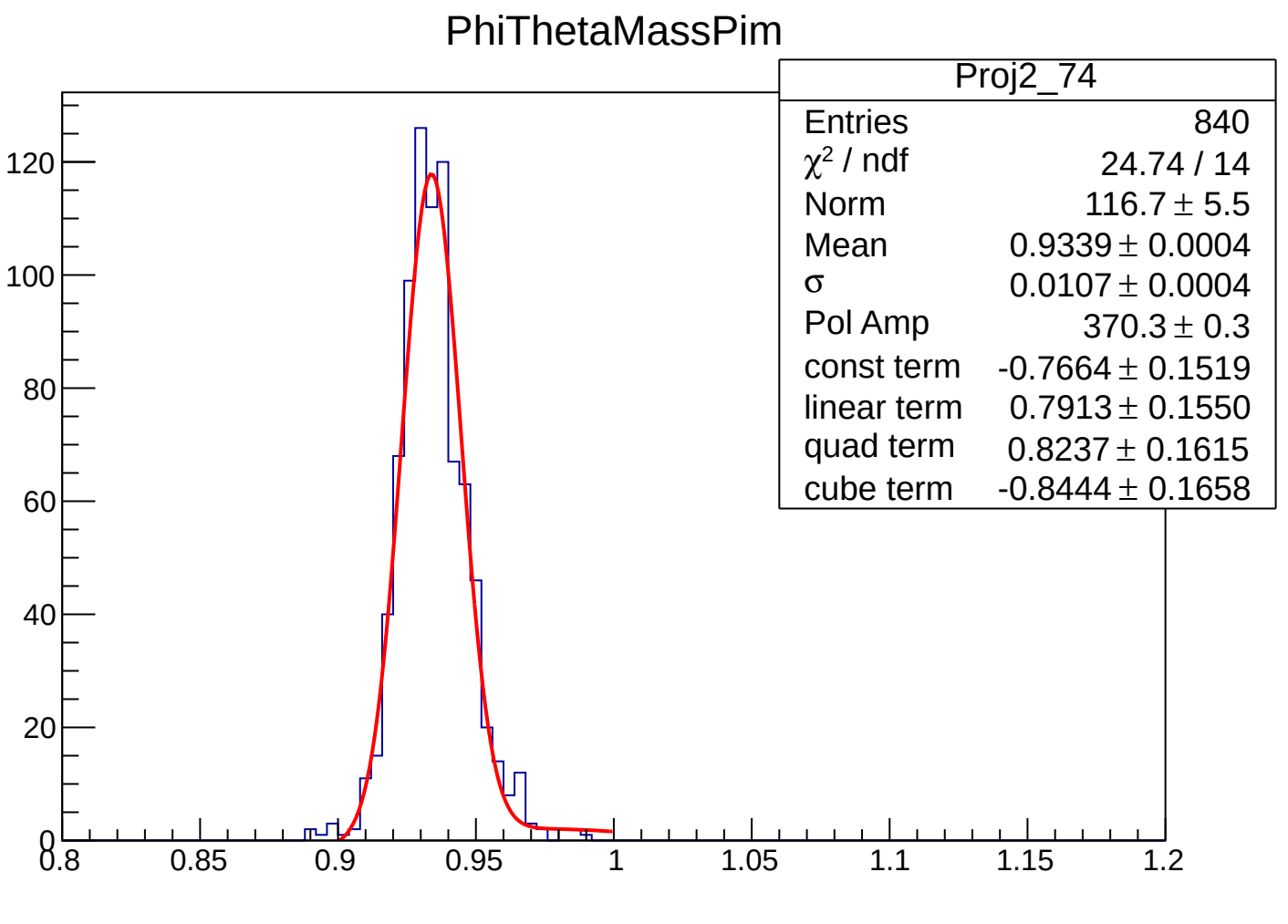

PhiThetaMassPim
Proj2_623
Entries 501
χ² / ndf 18 / 14
Norm 68.7 ± 4.4
Mean 0.934 ± 0.001
σ 0.01017 ± 0.00043
Pol Amp 369.5 ± 0.4
const term -1.158 ± 0.305
linear term 1.23 ± 0.32
quad term 1.264 ± 0.332
cube term -1.336 ± 0.351
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

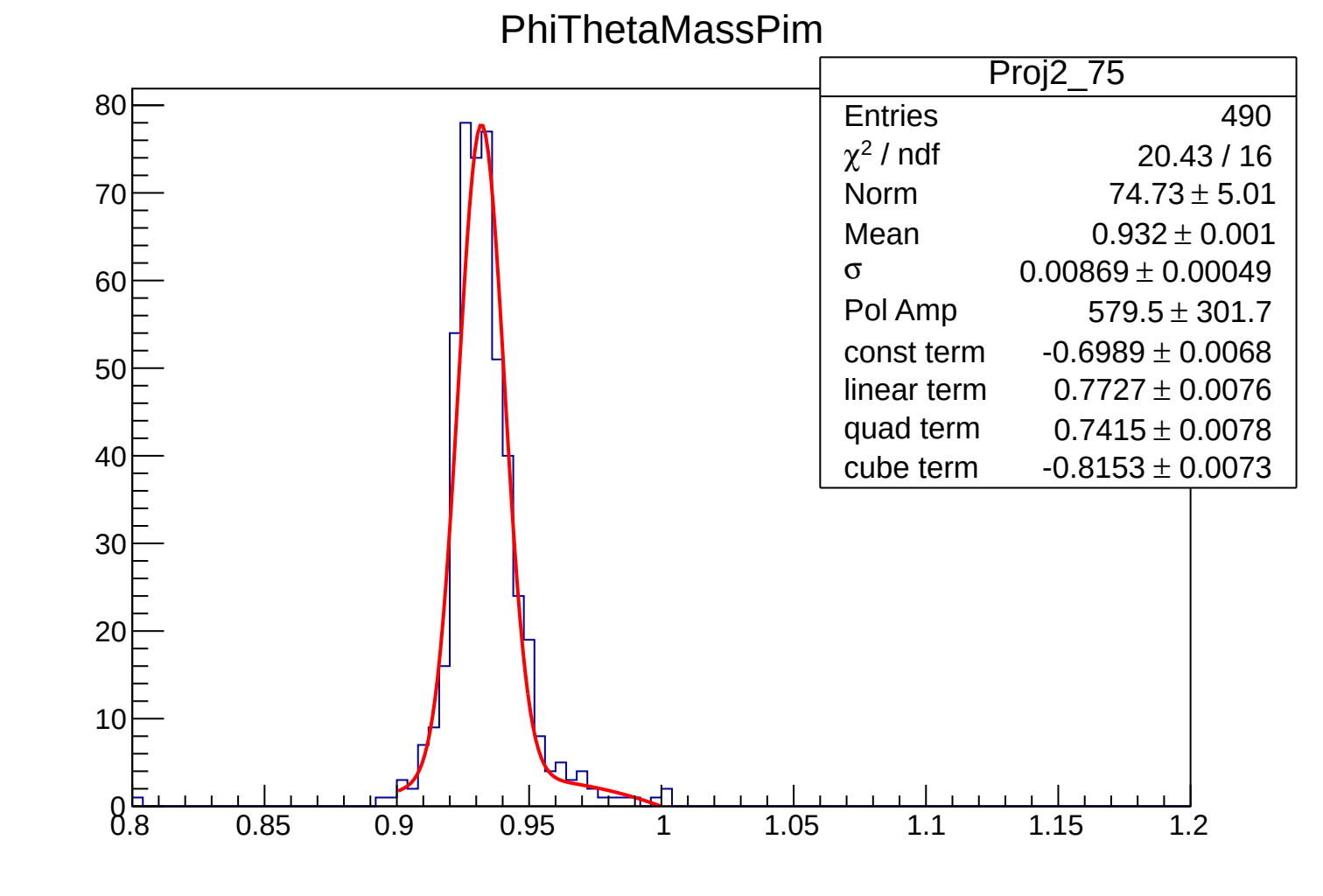

PhiThetaMassPim
Proj2_70
Entries 517
χ² / ndf 16.06 / 13
Norm 72.28 ± 4.71
Mean 0.9321 ± 0.0005
σ 0.009833 ± 0.000547
Pol Amp 367.8 ± 0.5
const term -0.6133 ± 0.1635
linear term 0.6849 ± 0.1676
quad term 0.6595 ± 0.1676
cube term -0.7295 ± 0.1732
0 10 20 30 40 50 60 70 80 90
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

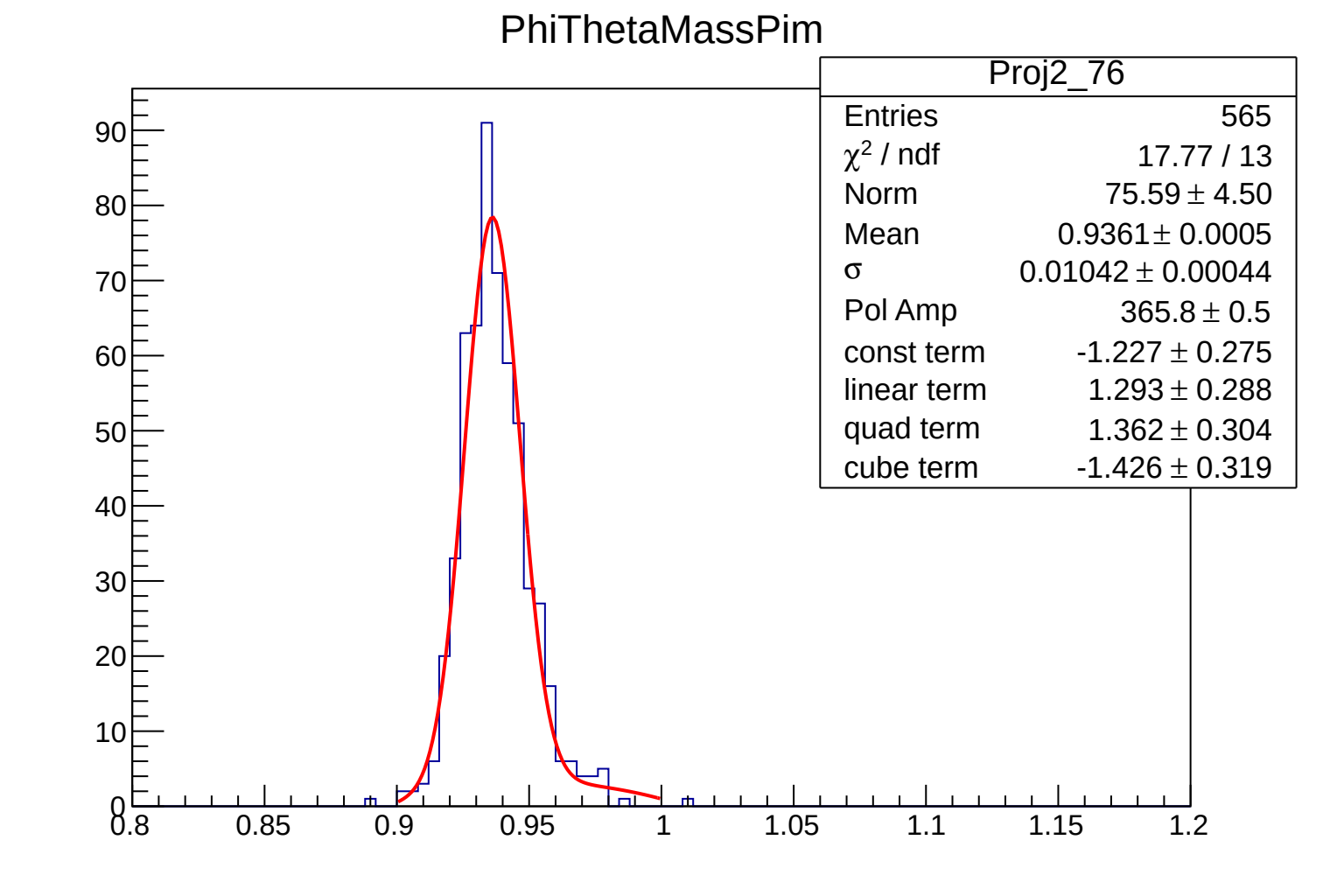

PhiThetaMassPim
Proj2_71
Entries 313
χ² / ndf 9.686 / 10
Norm 45.19 ± 3.97
Mean 0.9284 ± 0.0007
σ 0.008392 ± 0.000621
Pol Amp 902.6 ± 392.7
const term -1.527 ± 0.006
linear term 1.635 ± 0.007
quad term 1.727 ± 0.007
cube term -1.843 ± 0.007
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

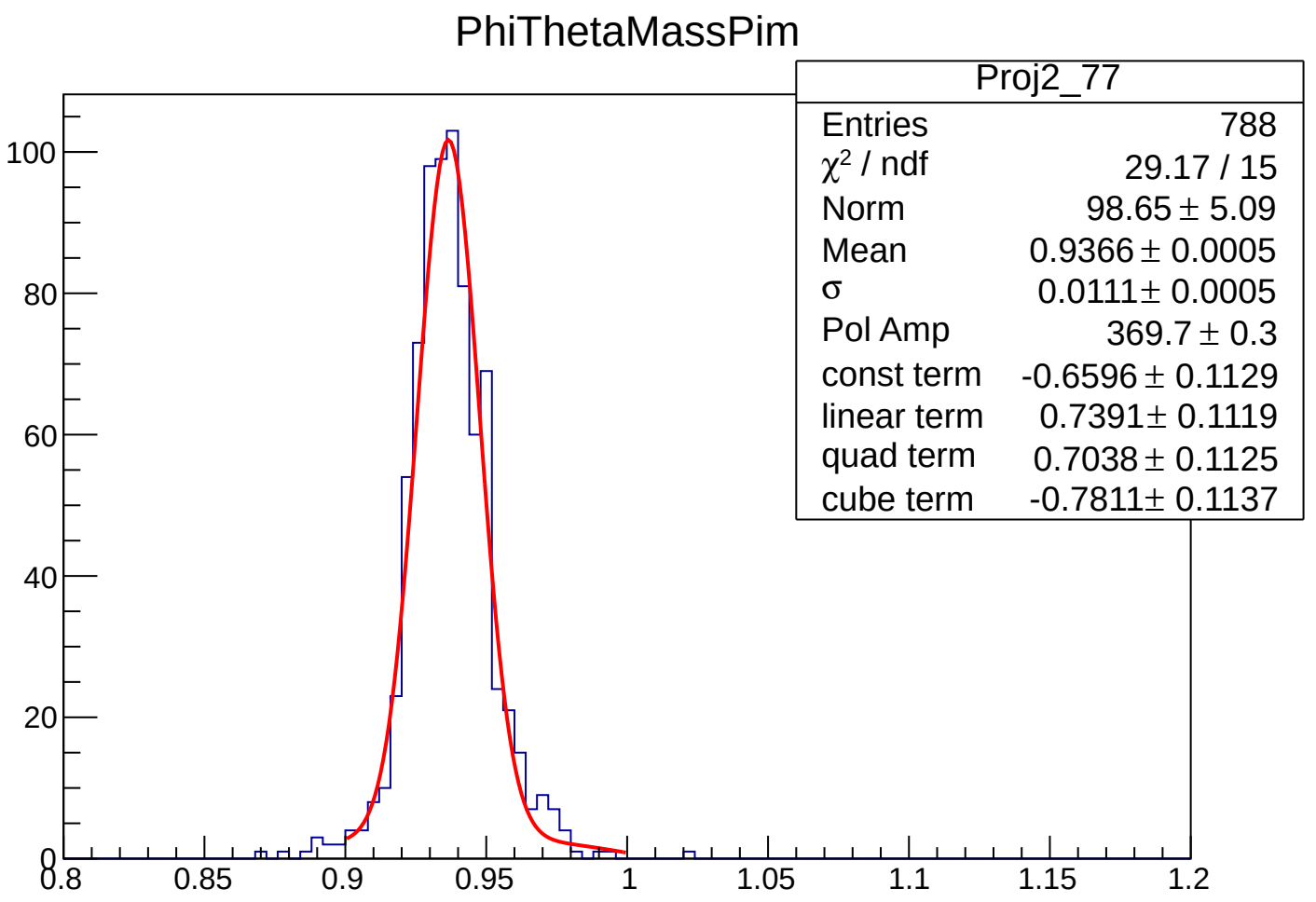

PhiThetaMassPim
Proj2_72
Entries 550
χ² / ndf 18.64 / 14
Norm 80.5 ± 5.0
Mean 0.934 ± 0.001
σ 0.008896 ± 0.000444
Pol Amp 1666 ± 664.7
const term -0.7279 ± 0.0026
linear term 0.78 ± 0.00
quad term 0.806 ± 0.003
cube term -0.86 ± 0.00
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

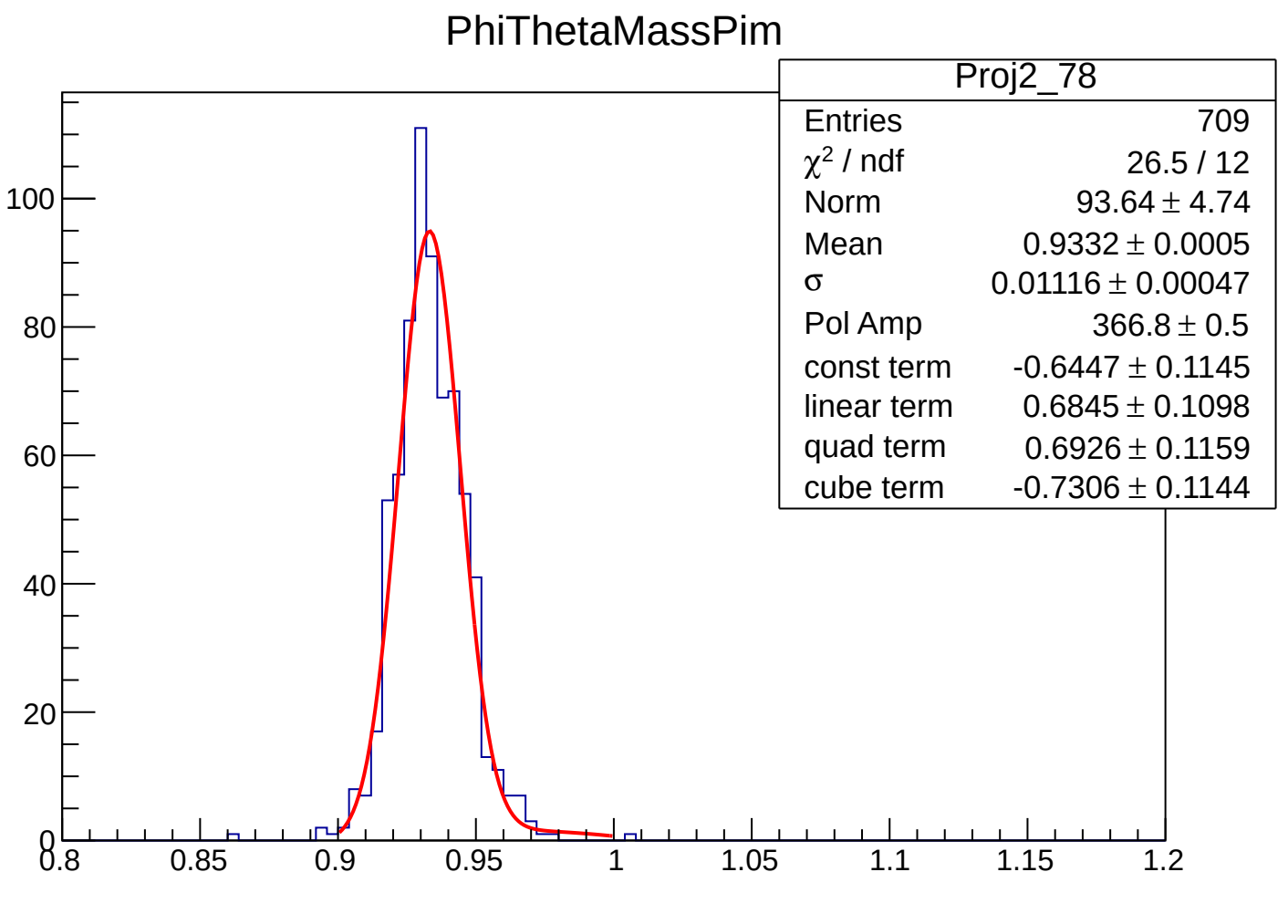

PhiThetaMassPim
Proj2_73
Entries 839
χ² / ndf 19.22 / 14
Norm 108.2 ± 5.5
Mean 0.9348 ± 0.0005
σ 0.01051 ± 0.00051
Pol Amp 1094 ± 672.8
const term -0.6231 ± 0.0061
linear term 0.6856 ± 0.0068
quad term 0.6695 ± 0.0069
cube term -0.7317 ± 0.0065
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

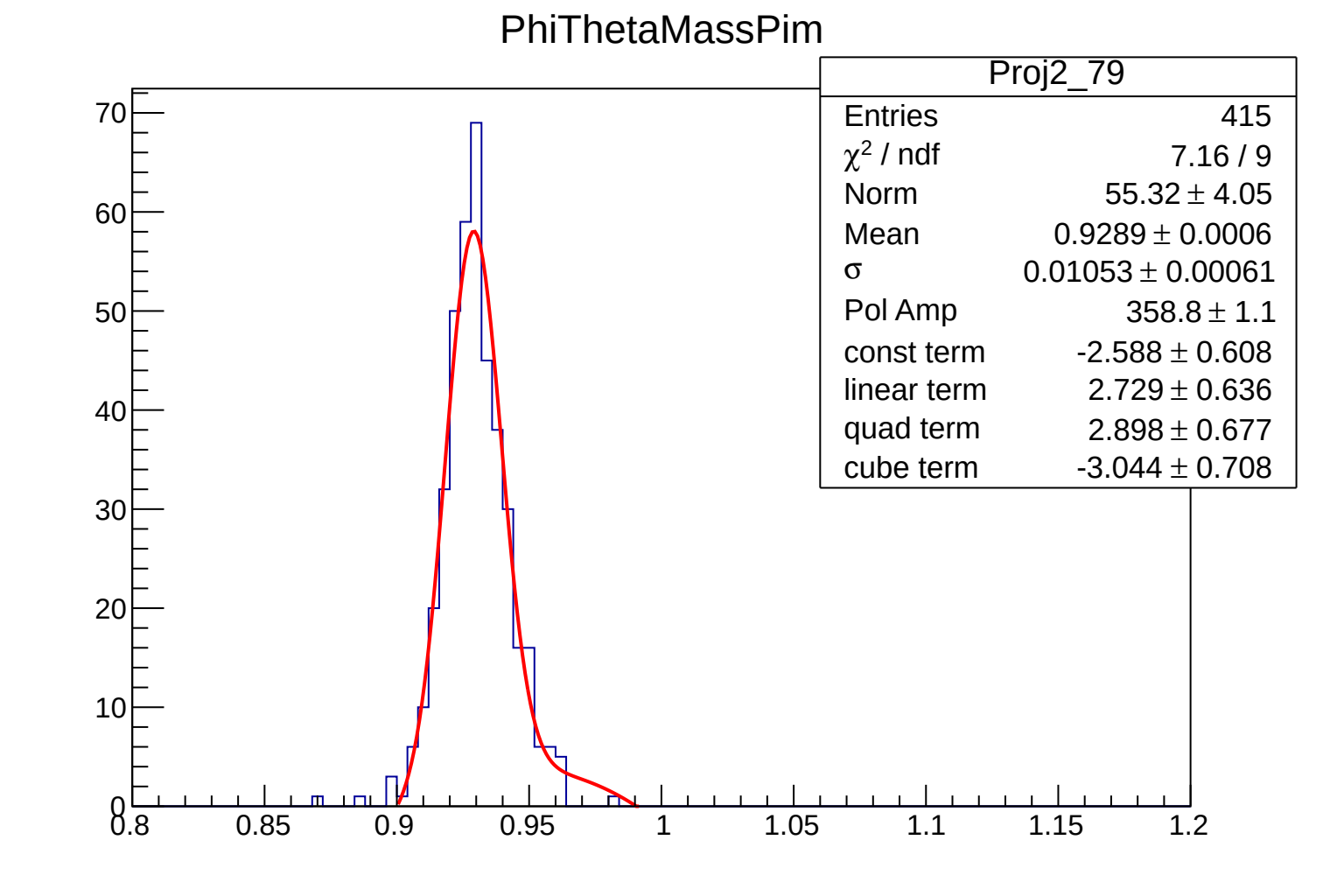

PhiThetaMassPim
Proj2_74
Entries 840
χ² / ndf 24.74 / 14
Norm 116.7 ± 5.5
Mean 0.9339 ± 0.0004
σ 0.0107 ± 0.0004
Pol Amp 370.3 ± 0.3
const term -0.7664 ± 0.1519
linear term 0.7913 ± 0.1550
quad term 0.8237 ± 0.1615
cube term -0.8444 ± 0.1658
120
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

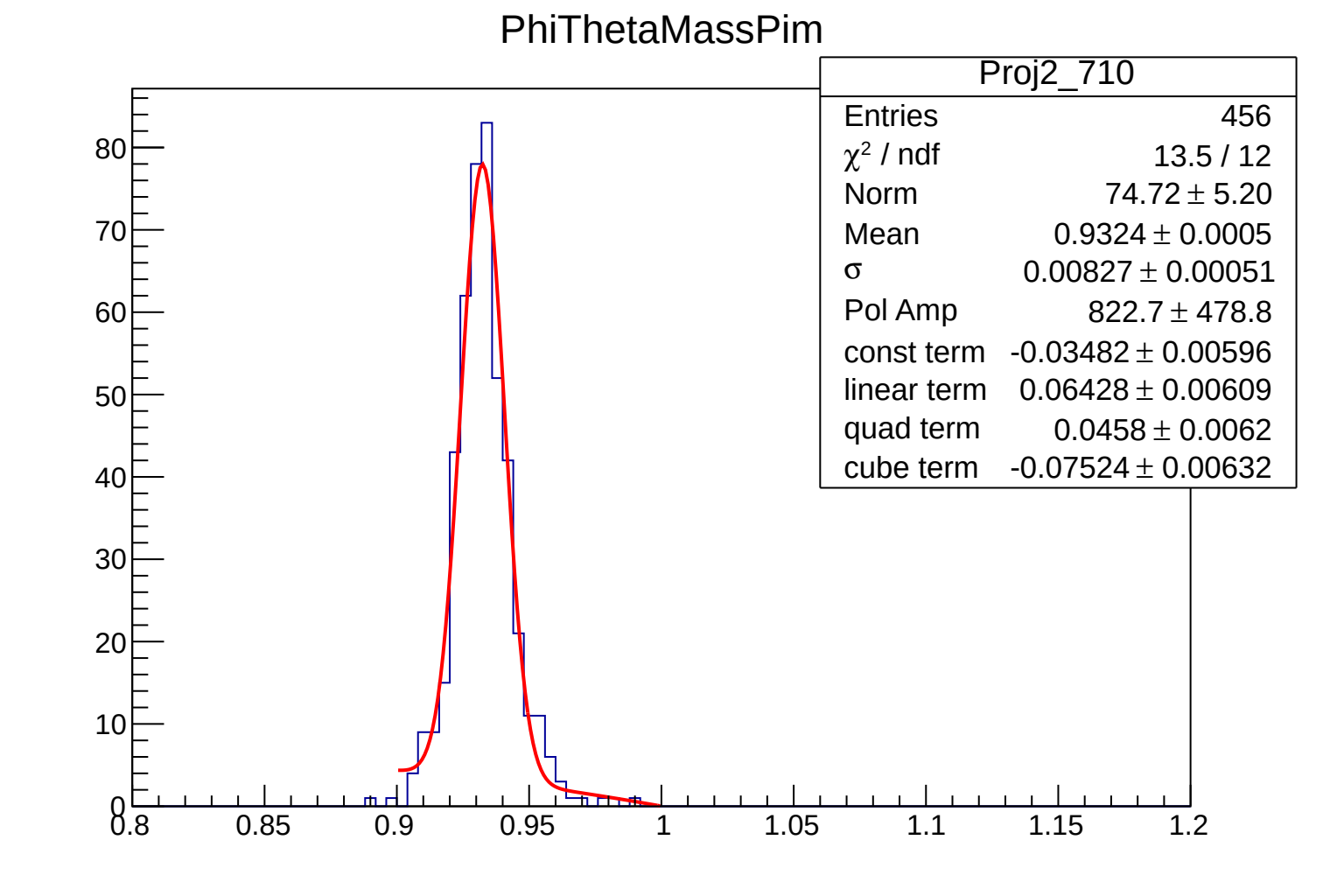

PhiThetaMassPim
Proj2_75
Entries 490
χ² / ndf 20.43 / 16
Norm 74.73 ± 5.01
Mean 0.932 ± 0.001
σ 0.00869 ± 0.00049
Pol Amp 579.5 ± 301.7
const term -0.6989 ± 0.0068
linear term 0.7727 ± 0.0076
quad term 0.7415 ± 0.0078
cube term -0.8153 ± 0.0073
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

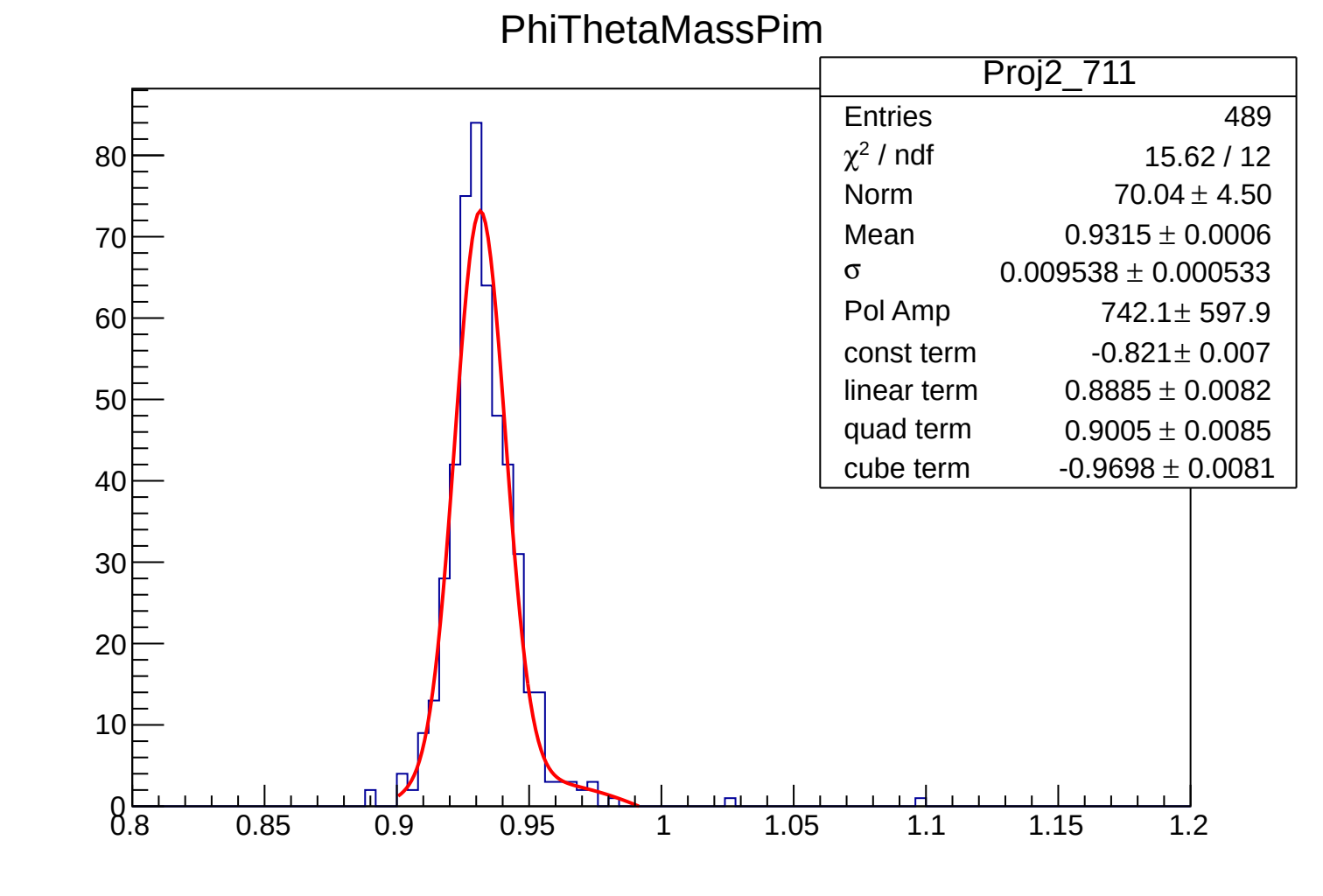

PhiThetaMassPim
Proj2_76
Entries 565
χ² / ndf 17.77 / 13
Norm 75.59 ± 4.50
Mean 0.9361 ± 0.0005
σ 0.01042 ± 0.00044
Pol Amp 365.8 ± 0.5
const term -1.227 ± 0.275
linear term 1.293 ± 0.288
quad term 1.362 ± 0.304
cube term -1.426 ± 0.319
0
10
20
30
40
50
60
70
80
90
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

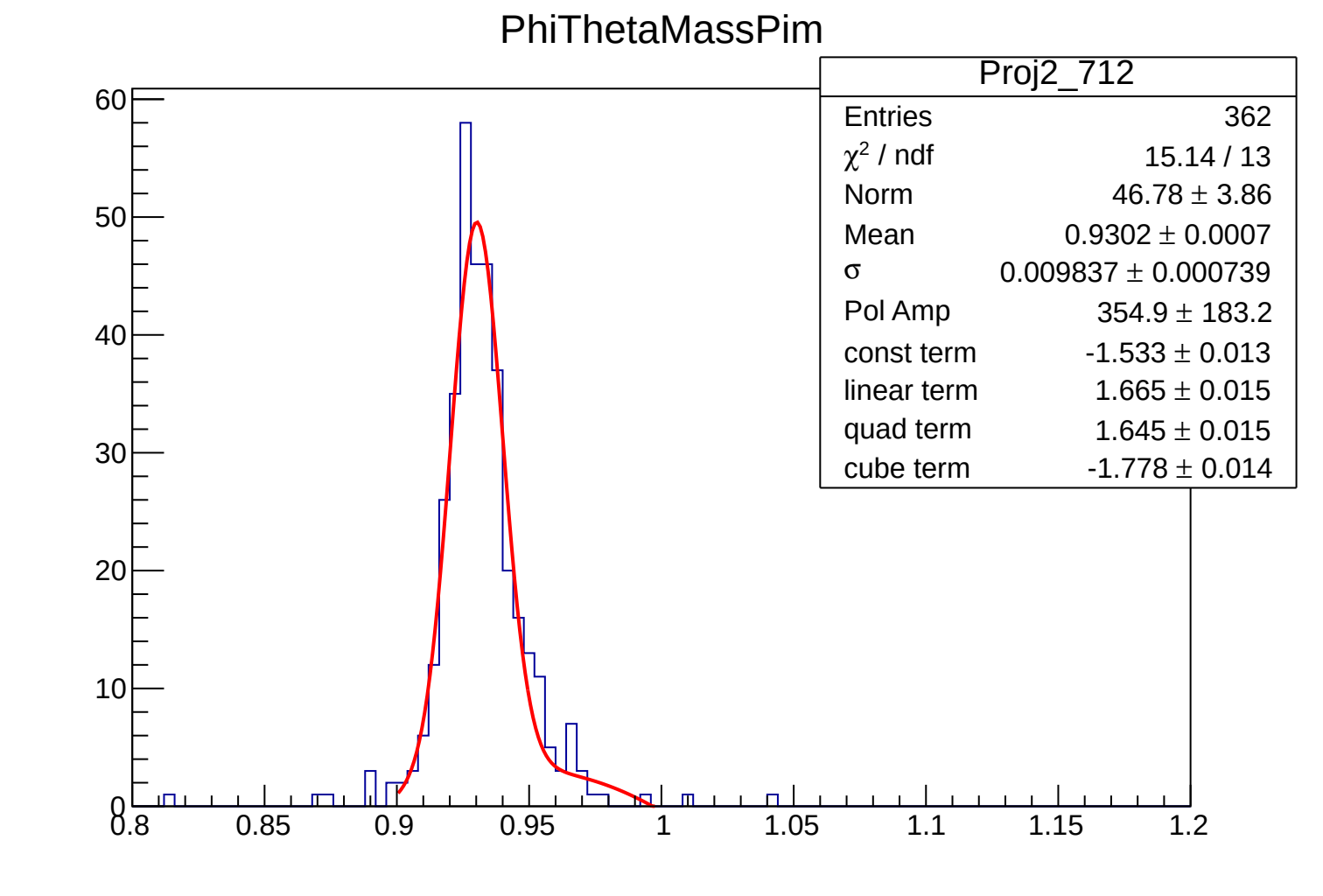

PhiThetaMassPim
Proj2_77
Entries 788
χ² / ndf 29.17 / 15
Norm 98.65 ± 5.09
Mean 0.9366 ± 0.0005
σ 0.0111 ± 0.0005
Pol Amp 369.7 ± 0.3
const term -0.6596 ± 0.1129
linear term 0.7391 ± 0.1119
quad term 0.7038 ± 0.1125
cube term -0.7811 ± 0.1137
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

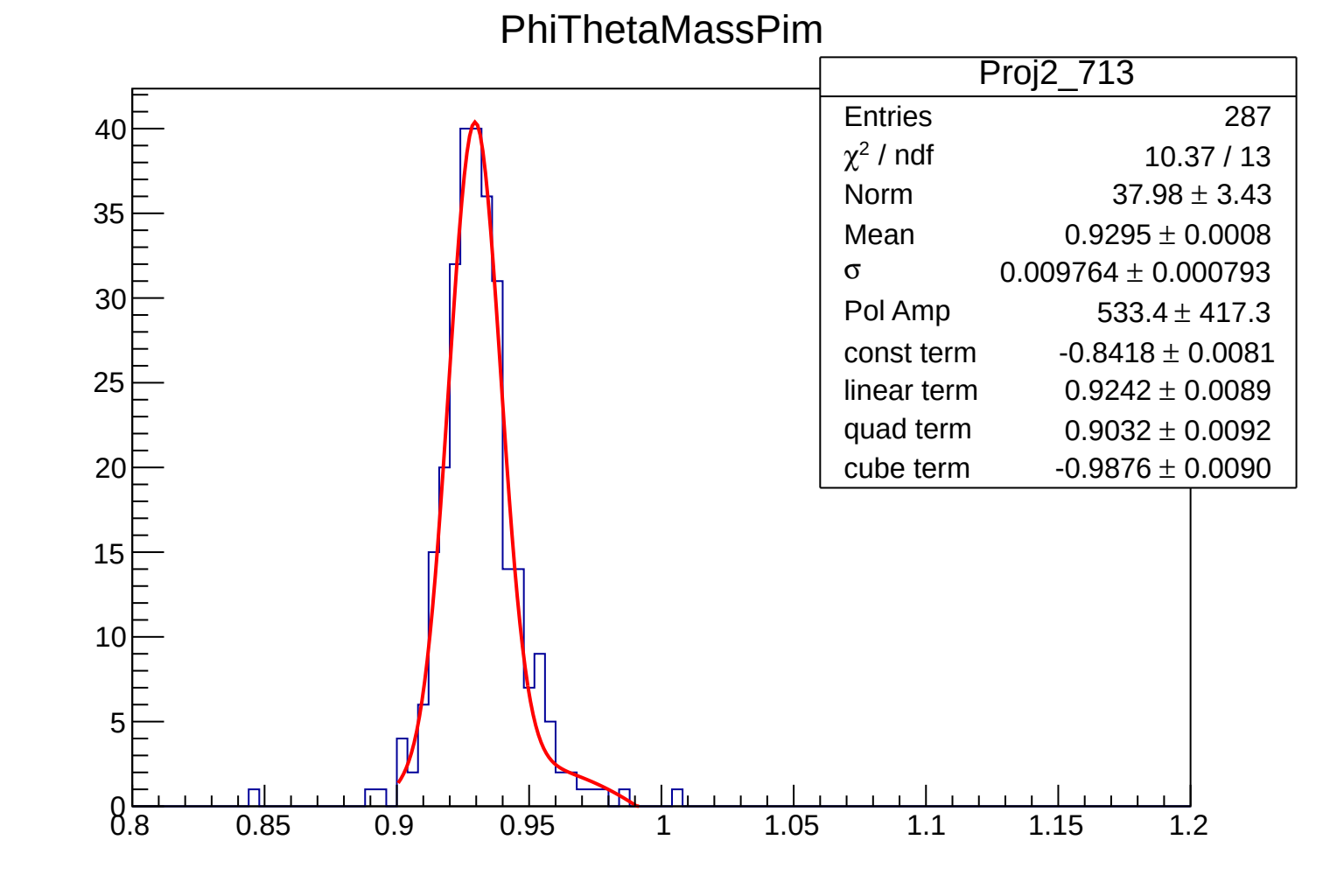

PhiThetaMassPim
Proj2_78
Entries 709
χ² / ndf 26.5 / 12
Norm 93.64 ± 4.74
Mean 0.9332 ± 0.0005
σ 0.01116 ± 0.00047
Pol Amp 366.8 ± 0.5
const term -0.6447 ± 0.1145
linear term 0.6845 ± 0.1098
quad term 0.6926 ± 0.1159
cube term -0.7306 ± 0.1144
0
20
40
60
80
100
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

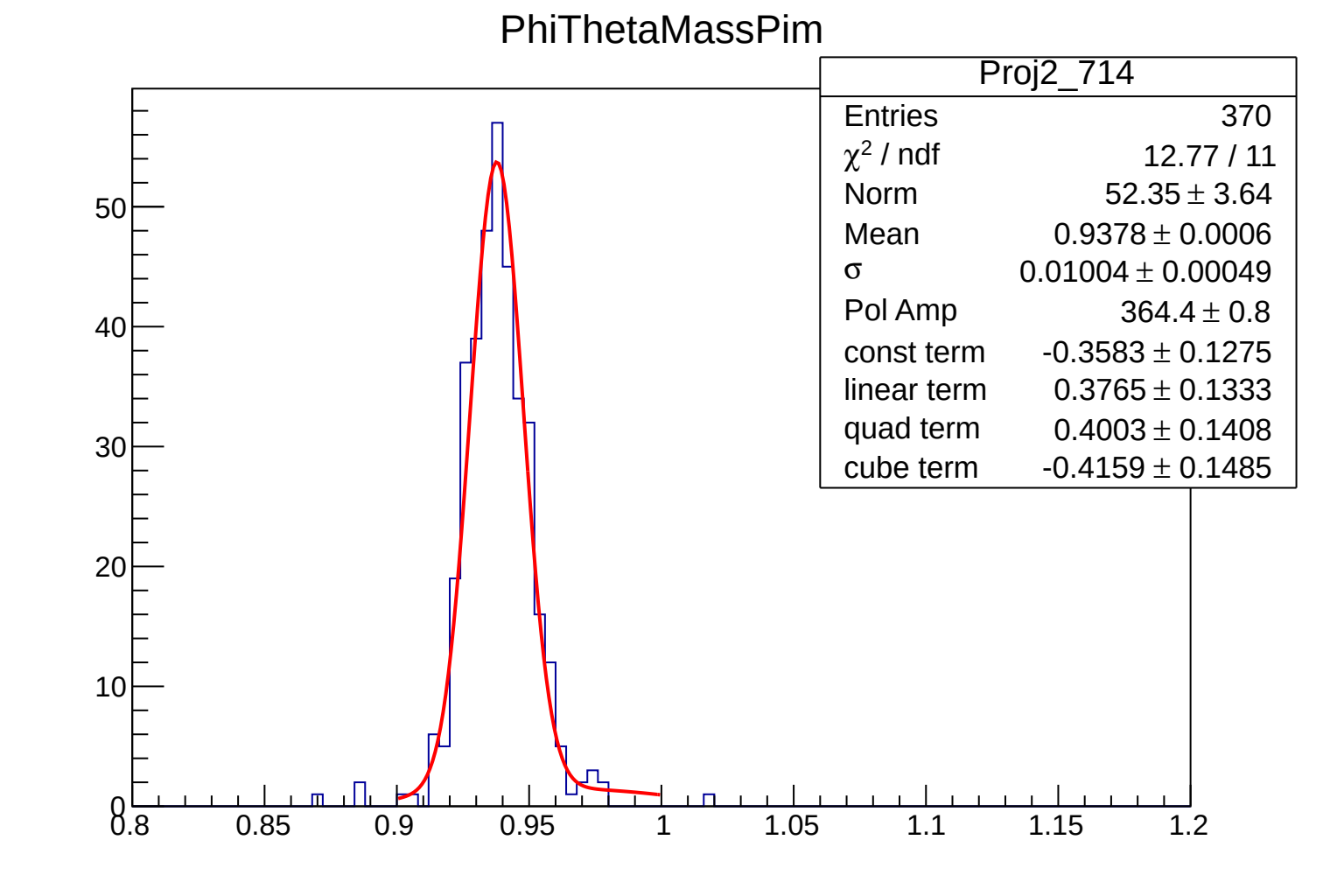

PhiThetaMassPim
Proj2_79
Entries 415
χ² / ndf 7.16 / 9
Norm 55.32 ± 4.05
Mean 0.9289 ± 0.0006
σ 0.01053 ± 0.00061
Pol Amp 358.8 ± 1.1
const term -2.588 ± 0.608
linear term 2.729 ± 0.636
quad term 2.898 ± 0.677
cube term -3.044 ± 0.708
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

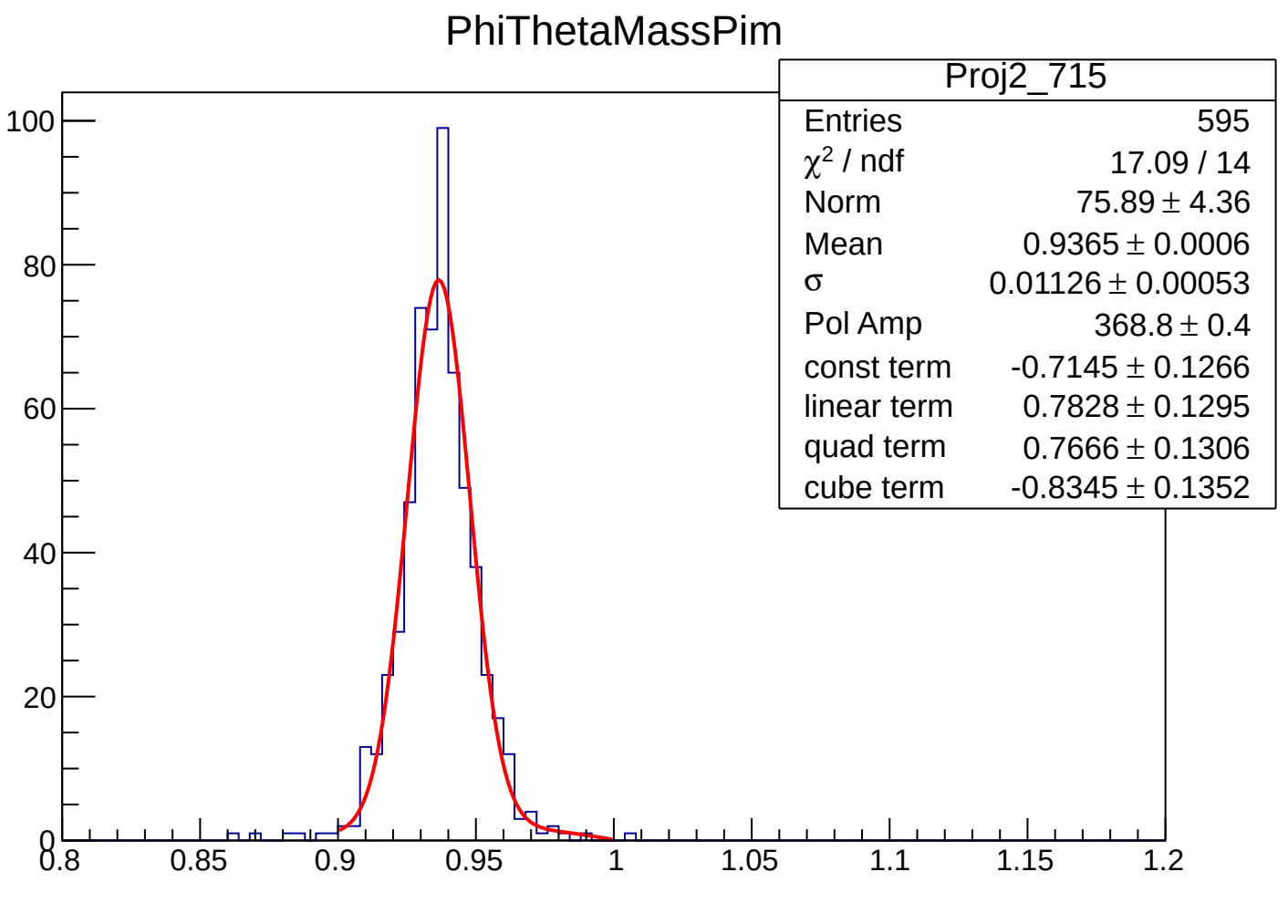

PhiThetaMassPim
Proj2_710
Entries 456
χ² / ndf 13.5 / 12
Norm 74.72 ± 5.20
Mean 0.9324 ± 0.0005
σ 0.00827 ± 0.00051
Pol Amp 822.7 ± 478.8
const term -0.03482 ± 0.00596
linear term 0.06428 ± 0.00609
quad term 0.0458 ± 0.0062
cube term -0.07524 ± 0.00632
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

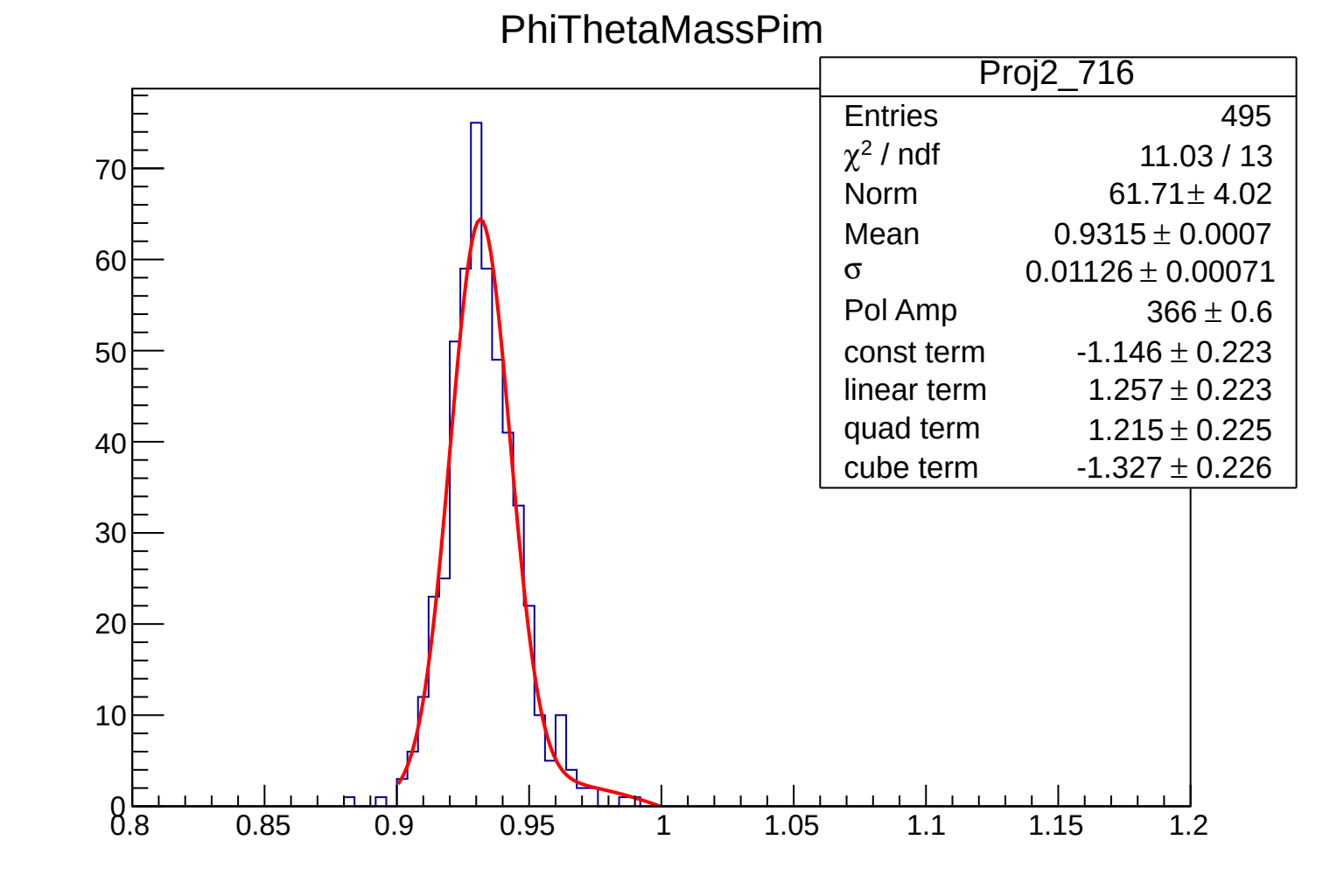

PhiThetaMassPim
Proj2_711
Entries 489
χ² / ndf 15.62 / 12
Norm 70.04 ± 4.50
Mean 0.9315 ± 0.0006
σ 0.009538 ± 0.000533
Pol Amp 742.1± 597.9
const term -0.821± 0.007
linear term 0.8885 ± 0.0082
quad term 0.9005 ± 0.0085
cube term -0.9698 ± 0.0081
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

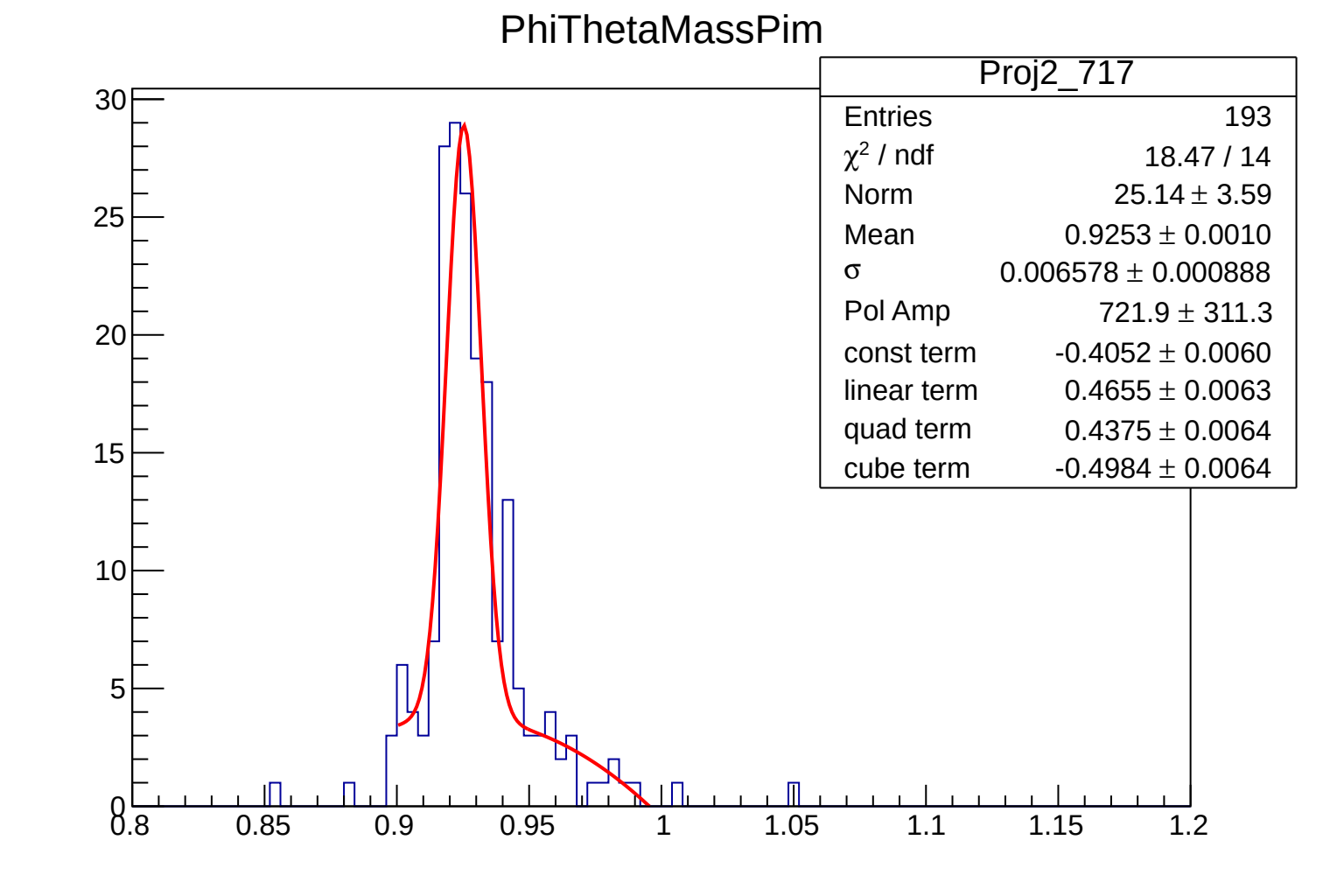

PhiThetaMassPim
Proj2_712
Entries 362
χ² / ndf 15.14 / 13
Norm 46.78 ± 3.86
Mean 0.9302 ± 0.0007
σ 0.009837 ± 0.000739
Pol Amp 354.9 ± 183.2
const term -1.533 ± 0.013
linear term 1.665 ± 0.015
quad term 1.645 ± 0.015
cube term -1.778 ± 0.014
60
50
40
30
20
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

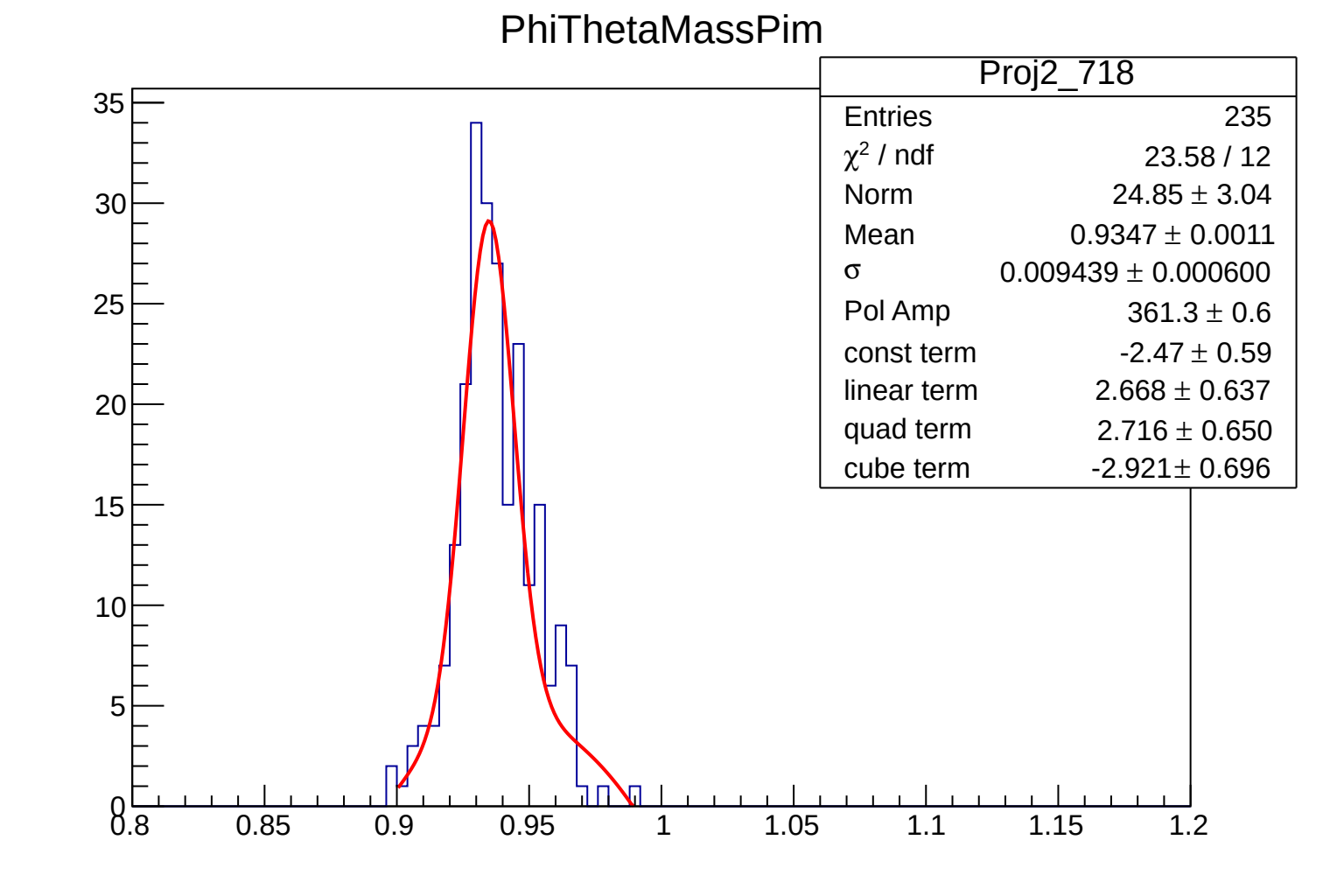

PhiThetaMassPim
Proj2_713
Entries 287
χ² / ndf 10.37 / 13
Norm 37.98 ± 3.43
Mean 0.9295 ± 0.0008
σ 0.009764 ± 0.000793
Pol Amp 533.4 ± 417.3
const term -0.8418 ± 0.0081
linear term 0.9242 ± 0.0089
quad term 0.9032 ± 0.0092
cube term -0.9876 ± 0.0090
0 5 10 15 20 25 30 35 40
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

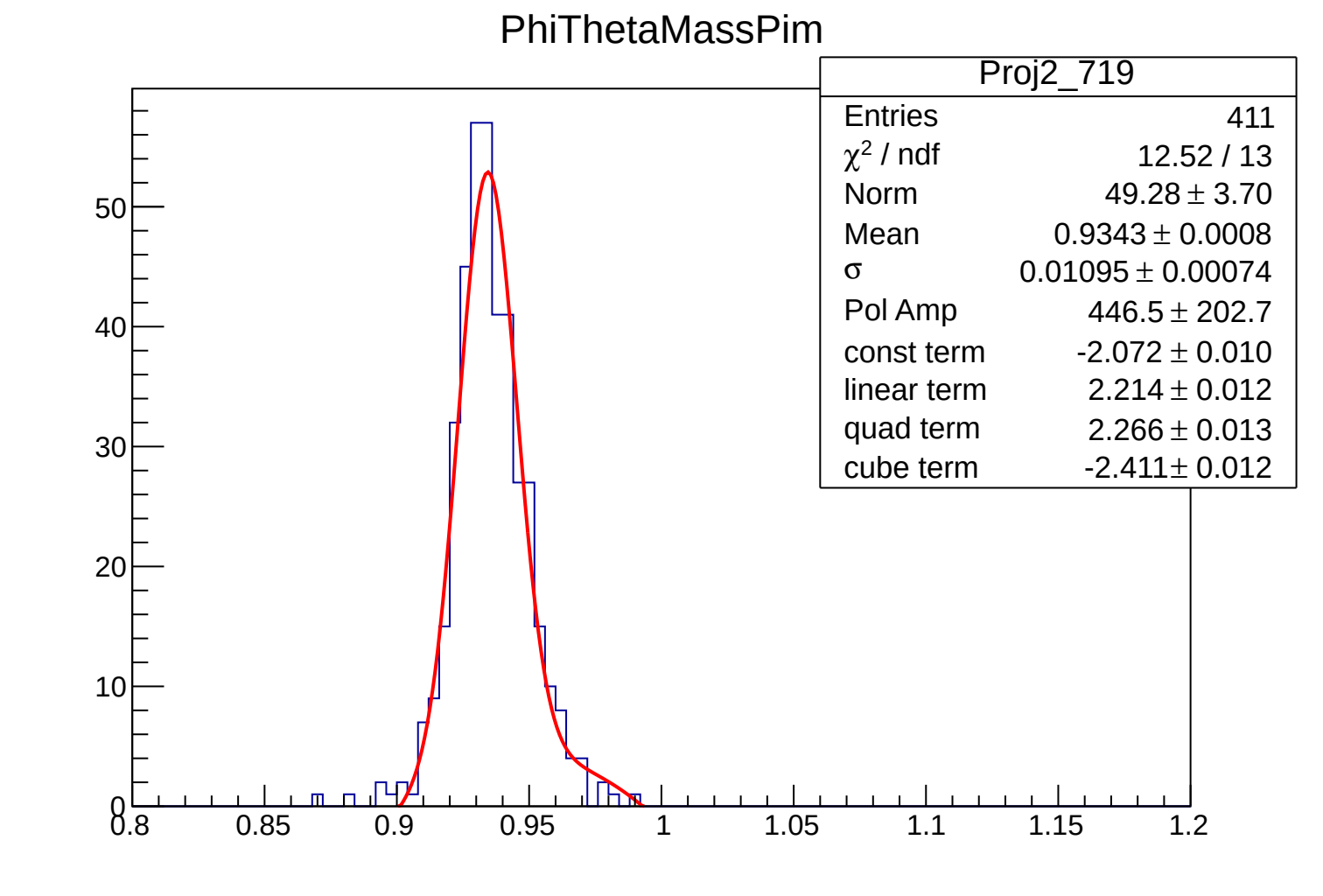

PhiThetaMassPim
Proj2_714
Entries 370
χ² / ndf 12.77 / 11
Norm 52.35 ± 3.64
Mean 0.9378 ± 0.0006
σ 0.01004 ± 0.00049
Pol Amp 364.4 ± 0.8
const term -0.3583 ± 0.1275
linear term 0.3765 ± 0.1333
quad term 0.4003 ± 0.1408
cube term -0.4159 ± 0.1485
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

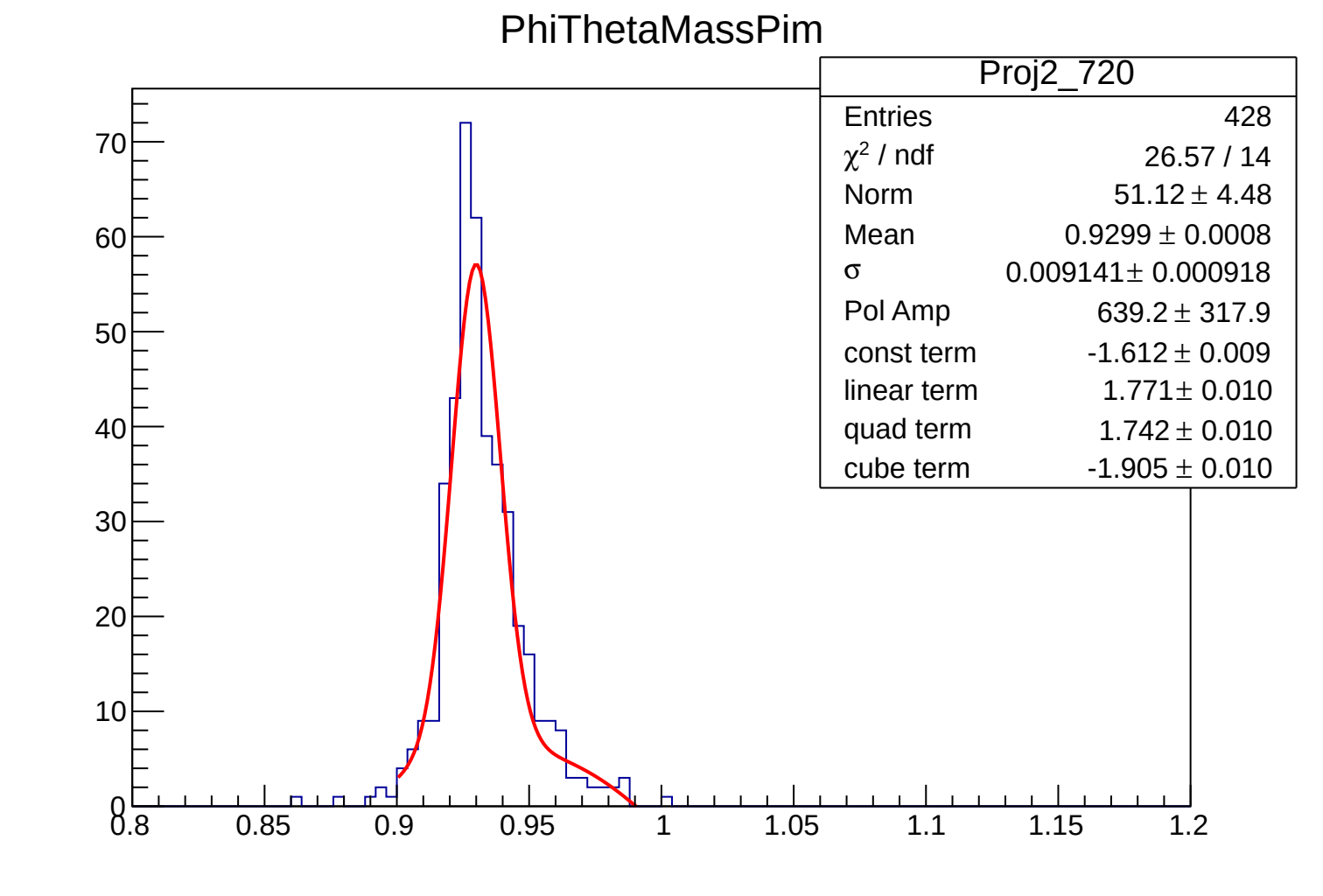

PhiThetaMassPim
Proj2_715
Entries 595
χ² / ndf 17.09 / 14
Norm 75.89 ± 4.36
Mean 0.9365 ± 0.0006
σ 0.01126 ± 0.00053
Pol Amp 368.8 ± 0.4
const term -0.7145 ± 0.1266
linear term 0.7828 ± 0.1295
quad term 0.7666 ± 0.1306
cube term -0.8345 ± 0.1352
100
80
60
40
20
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

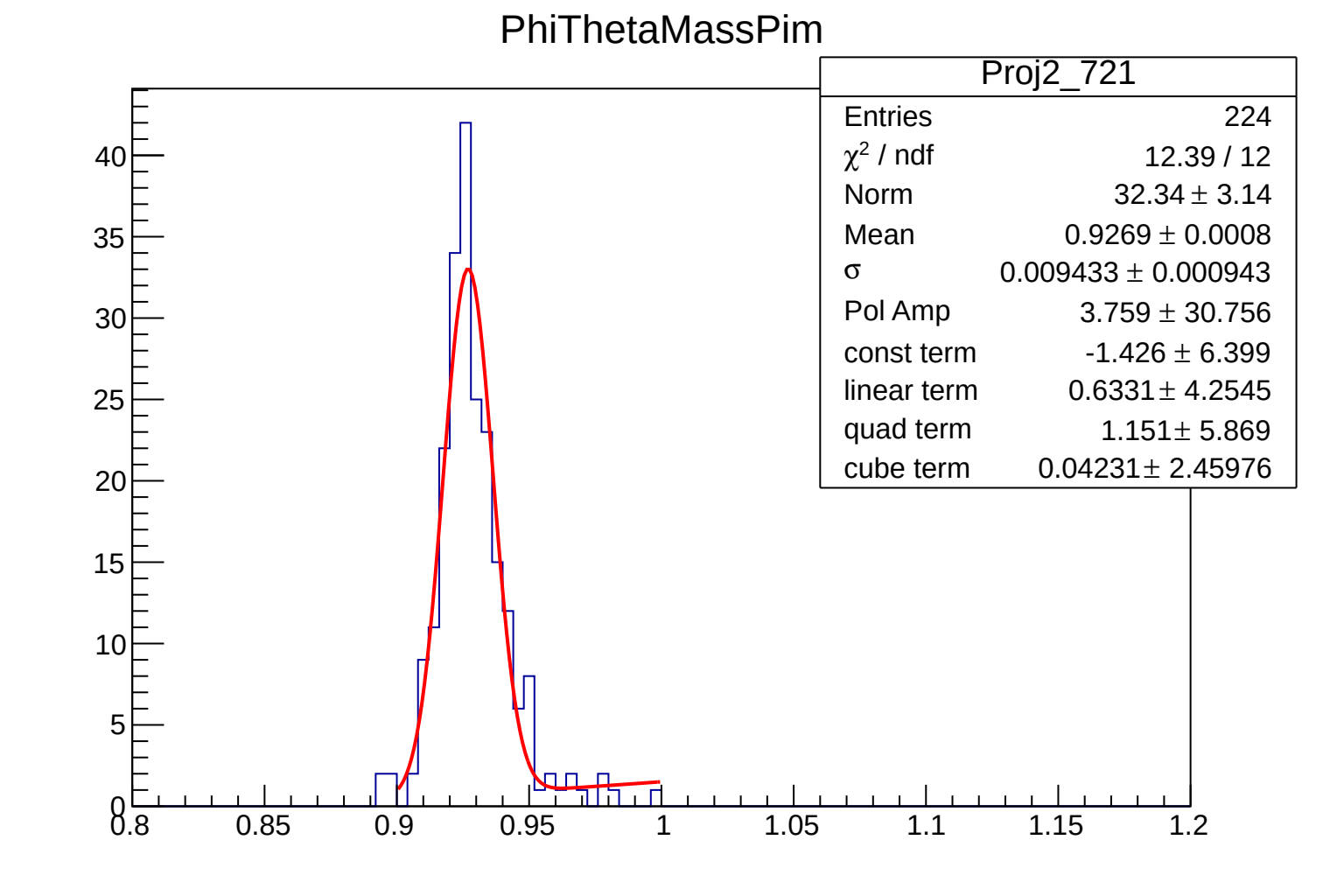

PhiThetaMassPim
Proj2_716
Entries 495
χ² / ndf 11.03 / 13
Norm 61.71 ± 4.02
Mean 0.9315 ± 0.0007
σ 0.01126 ± 0.00071
Pol Amp 366 ± 0.6
const term -1.146 ± 0.223
linear term 1.257 ± 0.223
quad term 1.215 ± 0.225
cube term -1.327 ± 0.226
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

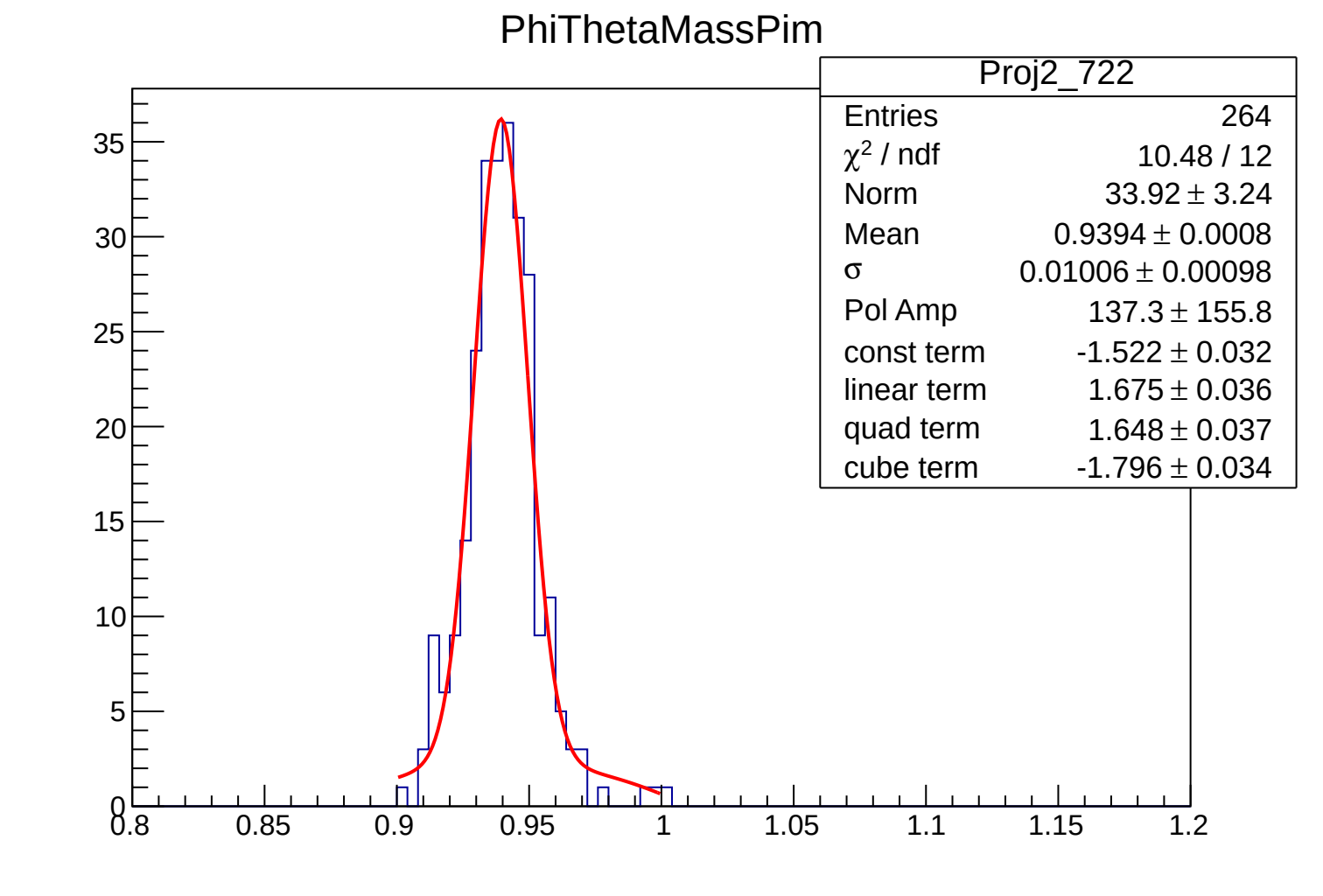

PhiThetaMassPim
Proj2_717
Entries 193
χ² / ndf 18.47 / 14
Norm 25.14 ± 3.59
Mean 0.9253 ± 0.0010
σ 0.006578 ± 0.000888
Pol Amp 721.9 ± 311.3
const term -0.4052 ± 0.0060
linear term 0.4655 ± 0.0063
quad term 0.4375 ± 0.0064
cube term -0.4984 ± 0.0064
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

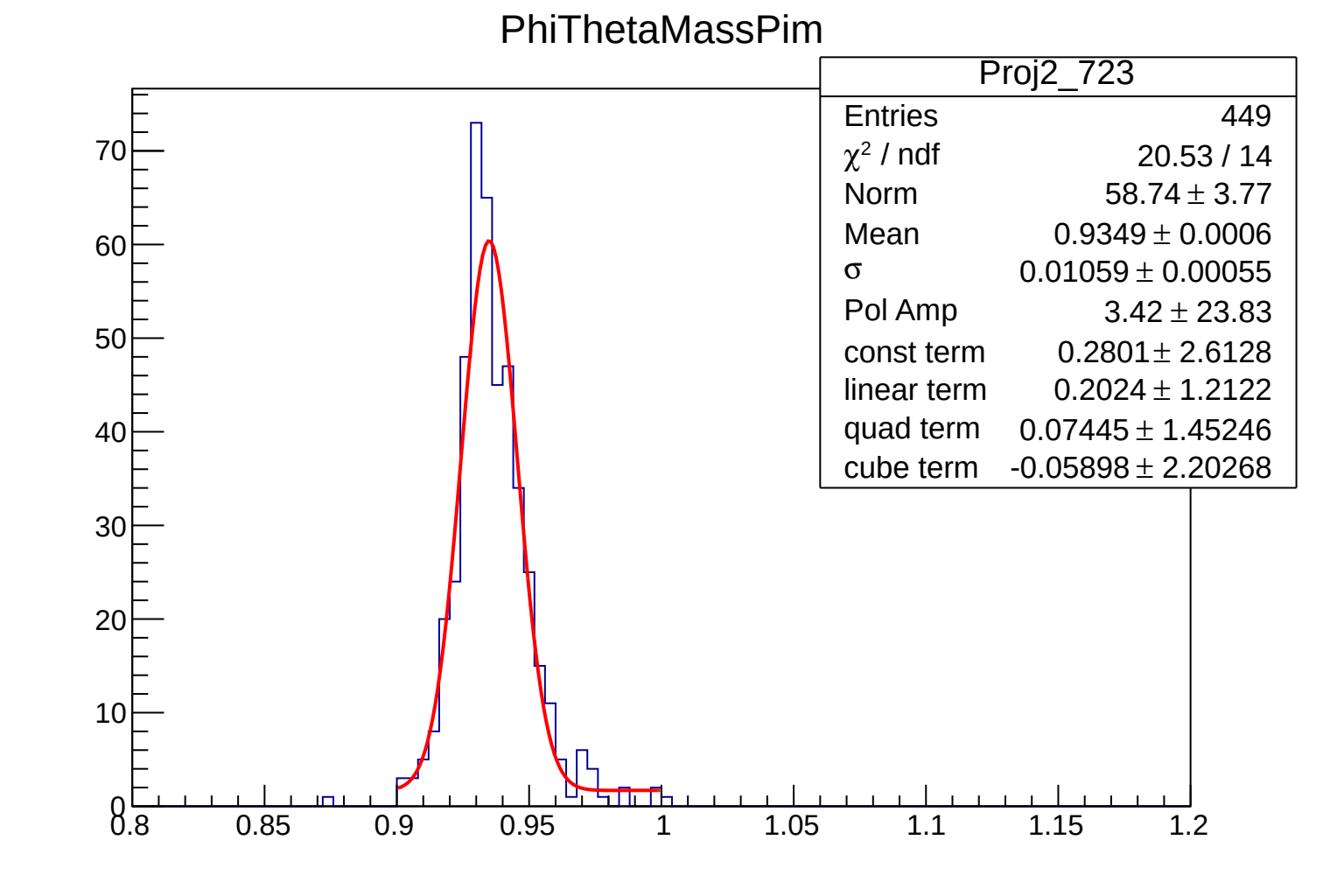

PhiThetaMassPim
Proj2_718
Entries 235
χ² / ndf 23.58 / 12
Norm 24.85 ± 3.04
Mean 0.9347 ± 0.0011
σ 0.009439 ± 0.000600
Pol Amp 361.3 ± 0.6
const term -2.47 ± 0.59
linear term 2.668 ± 0.637
quad term 2.716 ± 0.650
cube term -2.921± 0.696
35
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

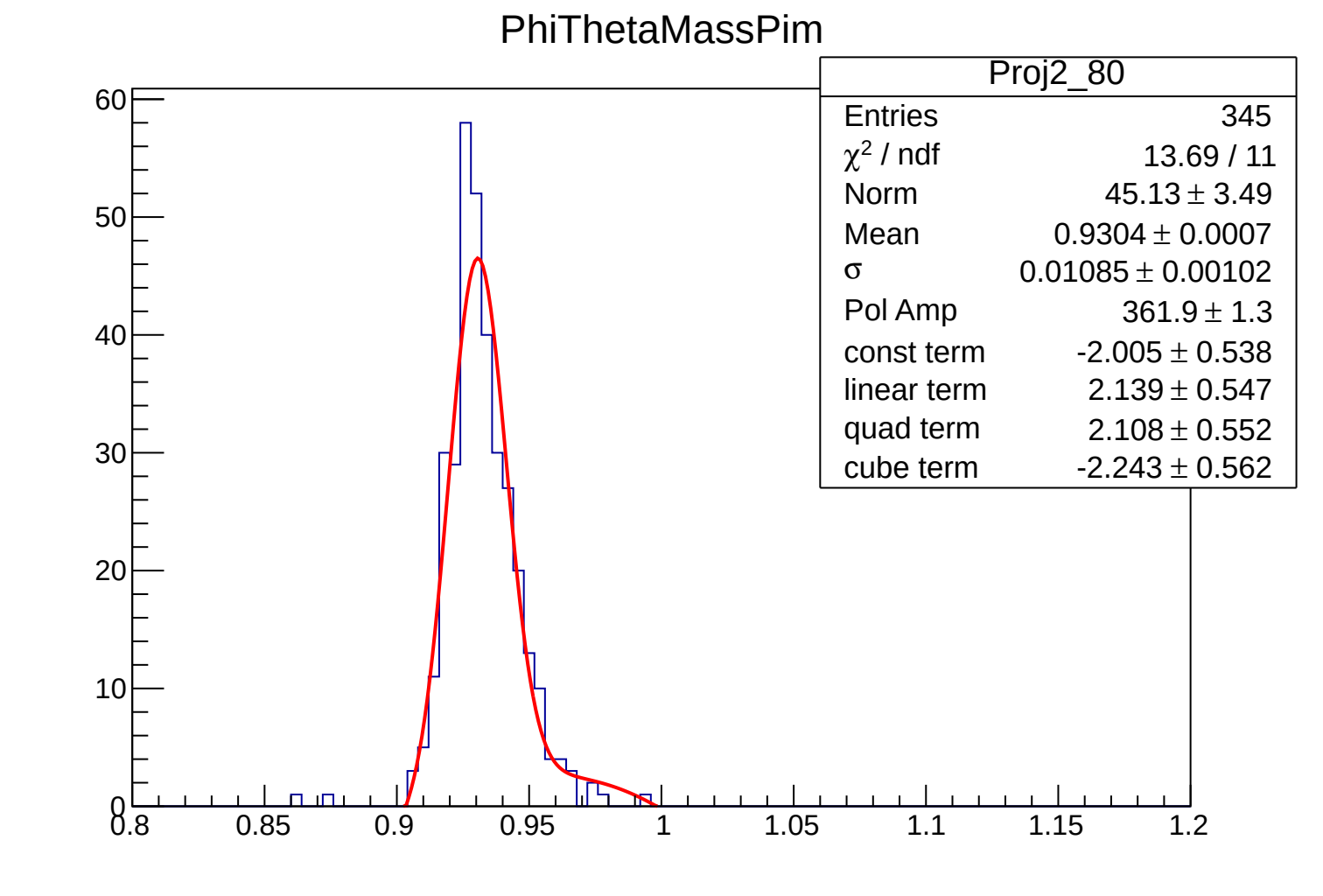

PhiThetaMassPim
Proj2_719
Entries 411
χ² / ndf 12.52 / 13
Norm 49.28 ± 3.70
Mean 0.9343 ± 0.0008
σ 0.01095 ± 0.00074
Pol Amp 446.5 ± 202.7
const term -2.072 ± 0.010
linear term 2.214 ± 0.012
quad term 2.266 ± 0.013
cube term -2.411 ± 0.012
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

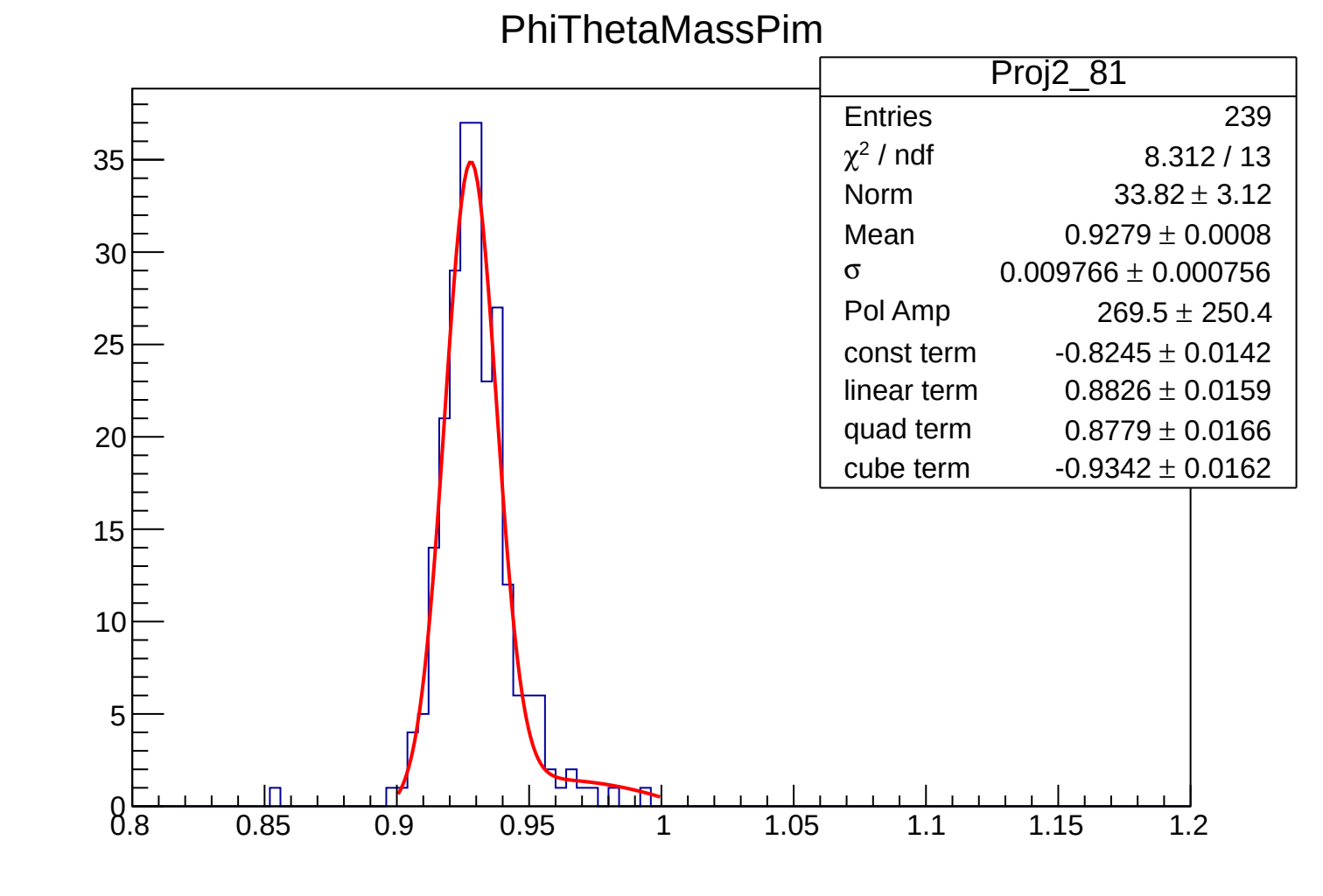

PhiThetaMassPim
Proj2_720
Entries 428
χ² / ndf 26.57 / 14
Norm 51.12 ± 4.48
Mean 0.9299 ± 0.0008
σ 0.009141 ± 0.000918
Pol Amp 639.2 ± 317.9
const term -1.612 ± 0.009
linear term 1.771 ± 0.010
quad term 1.742 ± 0.010
cube term -1.905 ± 0.010
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

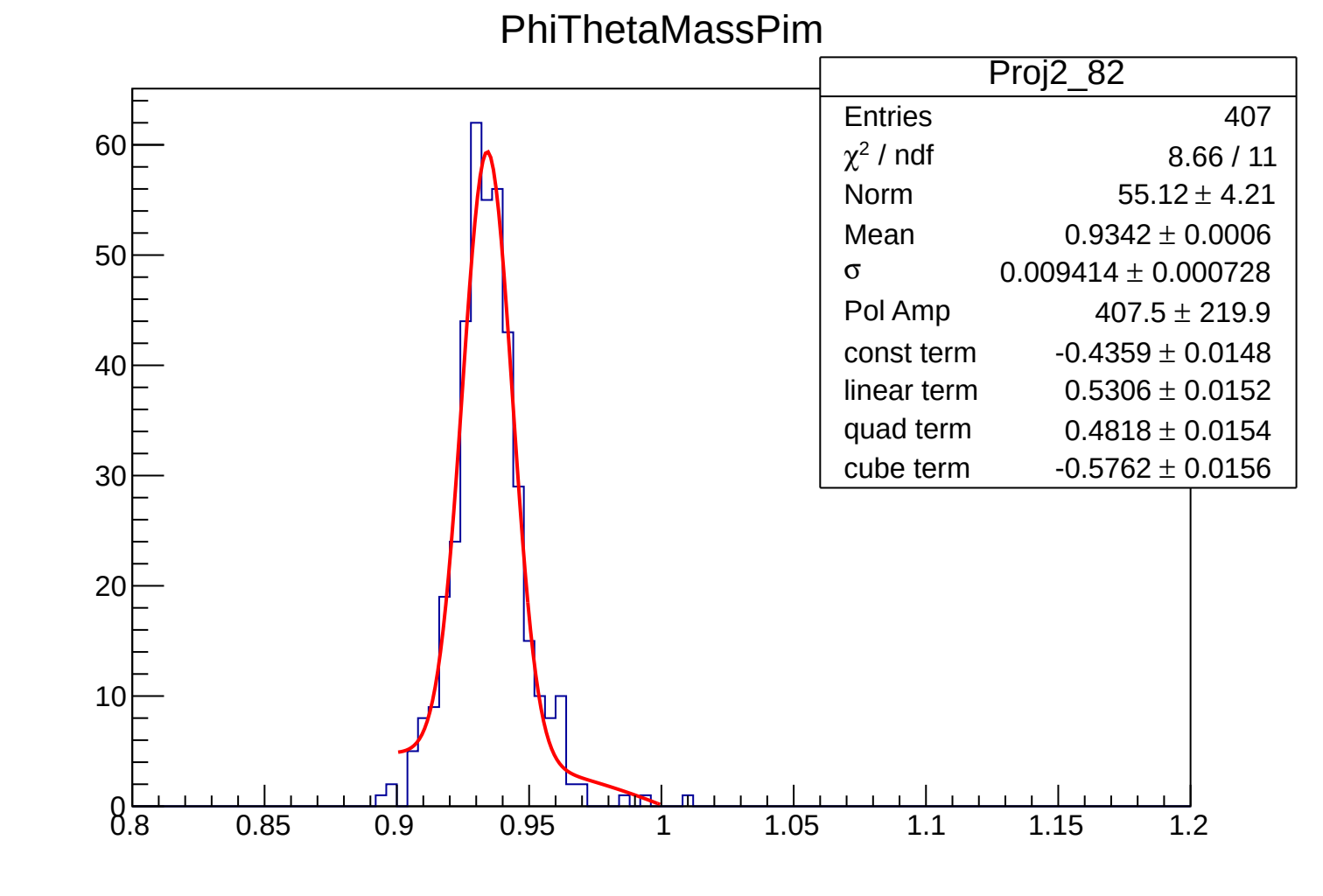

PhiThetaMassPim
Proj2_721
Entries 224
χ² / ndf 12.39 / 12
Norm 32.34 ± 3.14
Mean 0.9269 ± 0.0008
σ 0.009433 ± 0.000943
Pol Amp 3.759 ± 30.756
const term -1.426 ± 6.399
linear term 0.6331 ± 4.2545
quad term 1.151 ± 5.869
cube term 0.04231 ± 2.45976
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

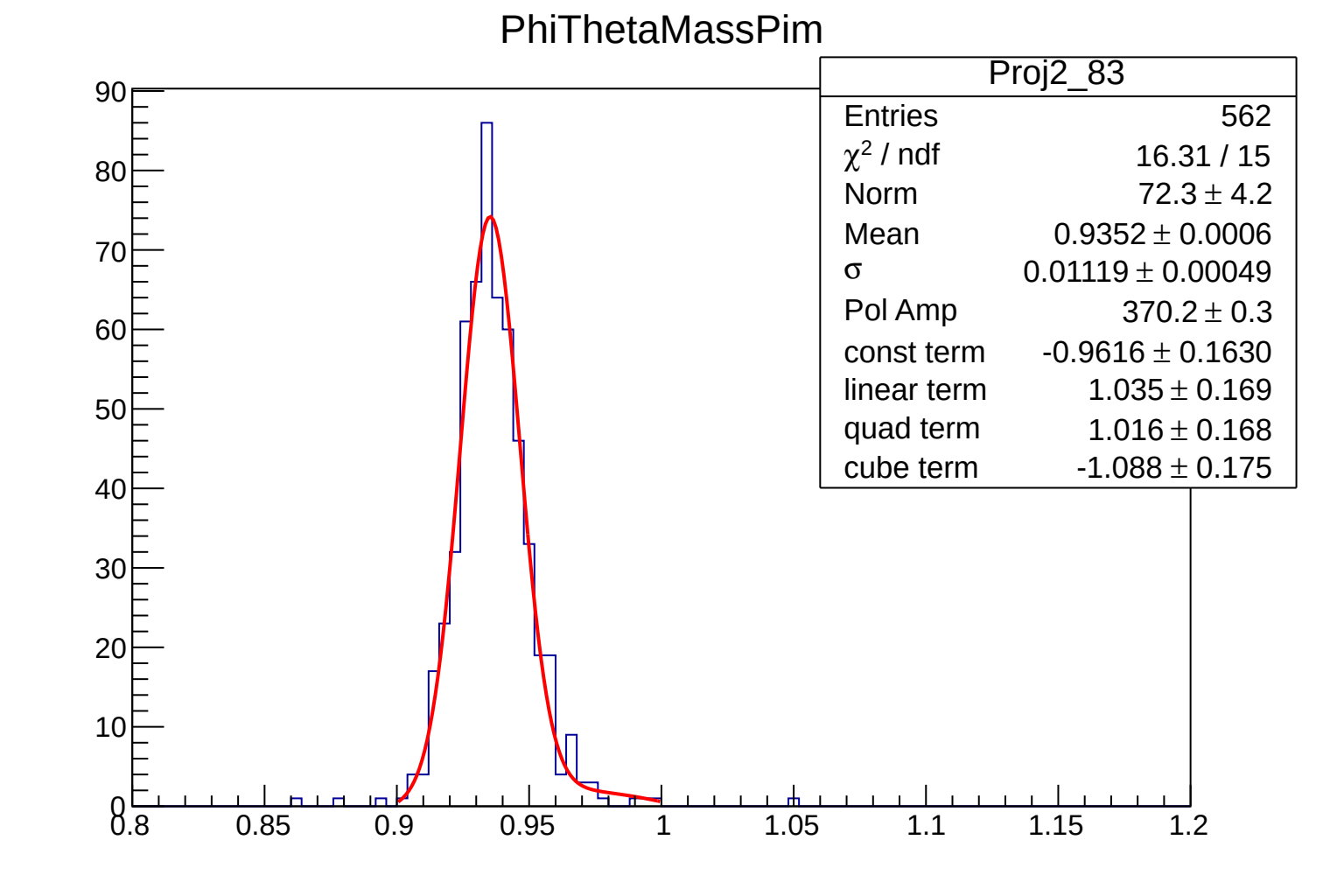

PhiThetaMassPim
Proj2_722
Entries 264
χ² / ndf 10.48 / 12
Norm 33.92 ± 3.24
Mean 0.9394 ± 0.0008
σ 0.01006 ± 0.00098
Pol Amp 137.3 ± 155.8
const term -1.522 ± 0.032
linear term 1.675 ± 0.036
quad term 1.648 ± 0.037
cube term -1.796 ± 0.034
0
5
10
15
20
25
30
35
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

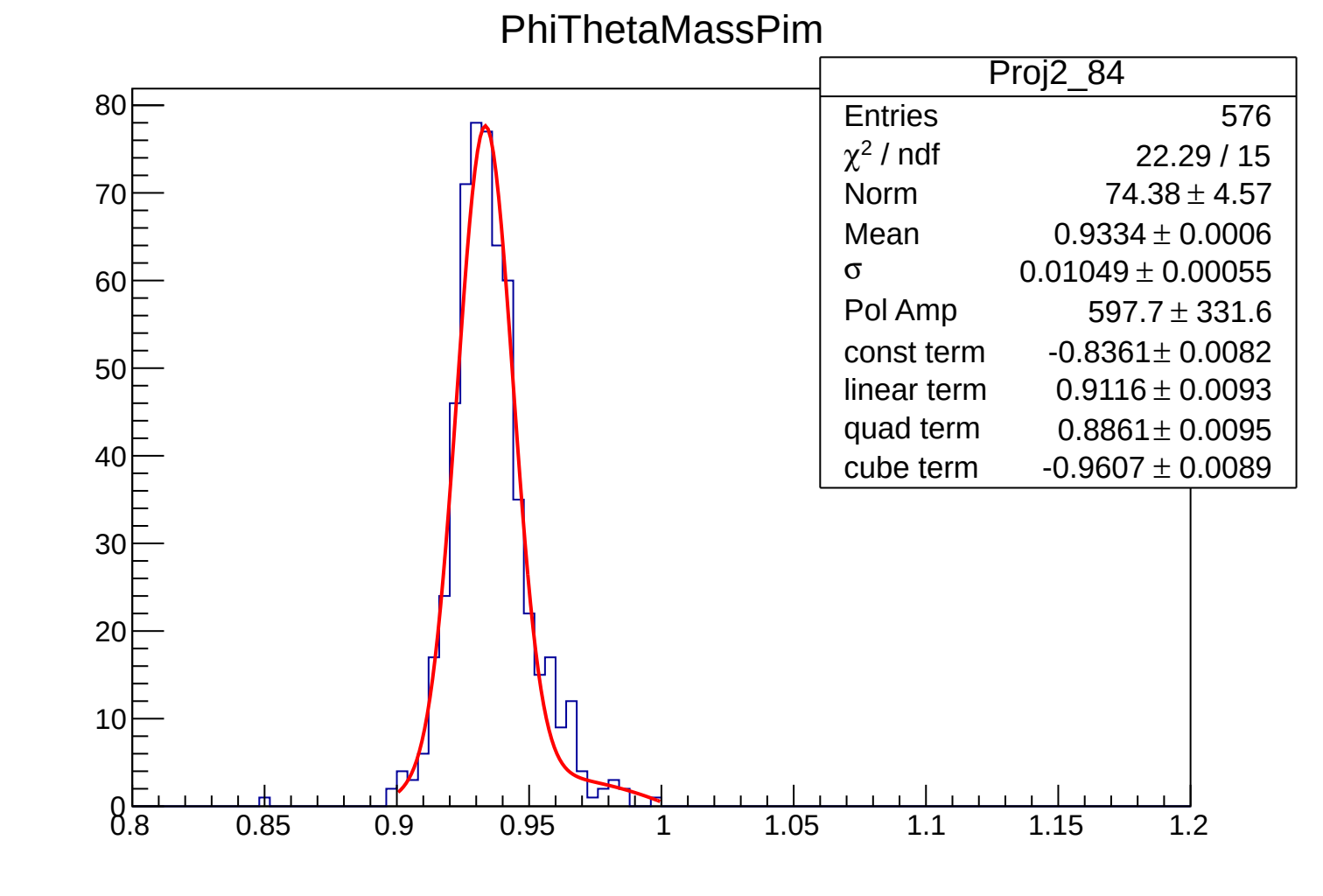

PhiThetaMassPim
Proj2_723
Entries 449
χ² / ndf 20.53 / 14
Norm 58.74 ± 3.77
Mean 0.9349 ± 0.0006
σ 0.01059 ± 0.00055
Pol Amp 3.42 ± 23.83
const term 0.2801 ± 2.6128
linear term 0.2024 ± 1.2122
quad term 0.07445 ± 1.45246
cube term -0.05898 ± 2.20268
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

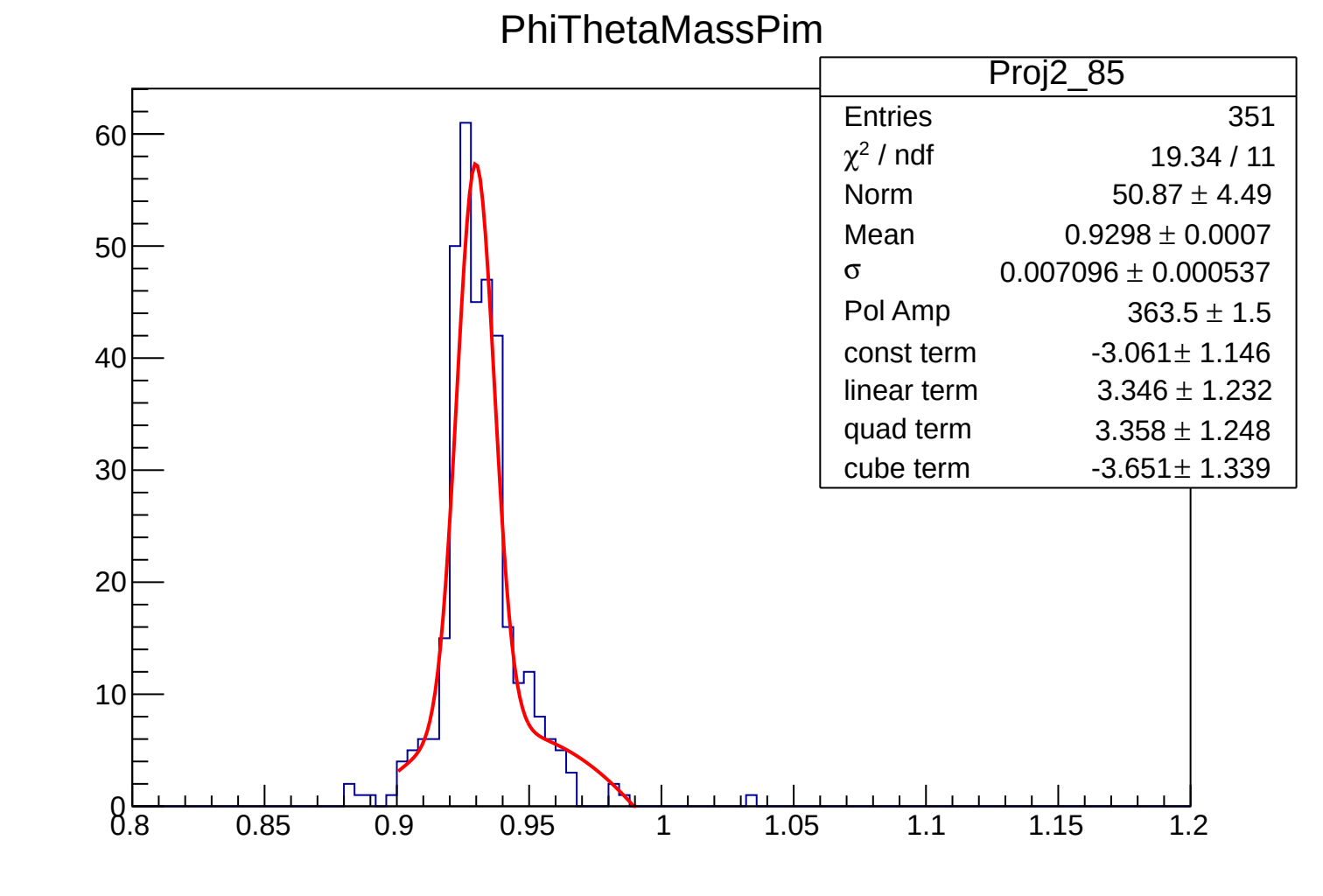

PhiThetaMassPim
Proj2_80
Entries 345
χ² / ndf 13.69 / 11
Norm 45.13 ± 3.49
Mean 0.9304 ± 0.0007
σ 0.01085 ± 0.00102
Pol Amp 361.9 ± 1.3
const term -2.005 ± 0.538
linear term 2.139 ± 0.547
quad term 2.108 ± 0.552
cube term -2.243 ± 0.562
60
50
40
30
20
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

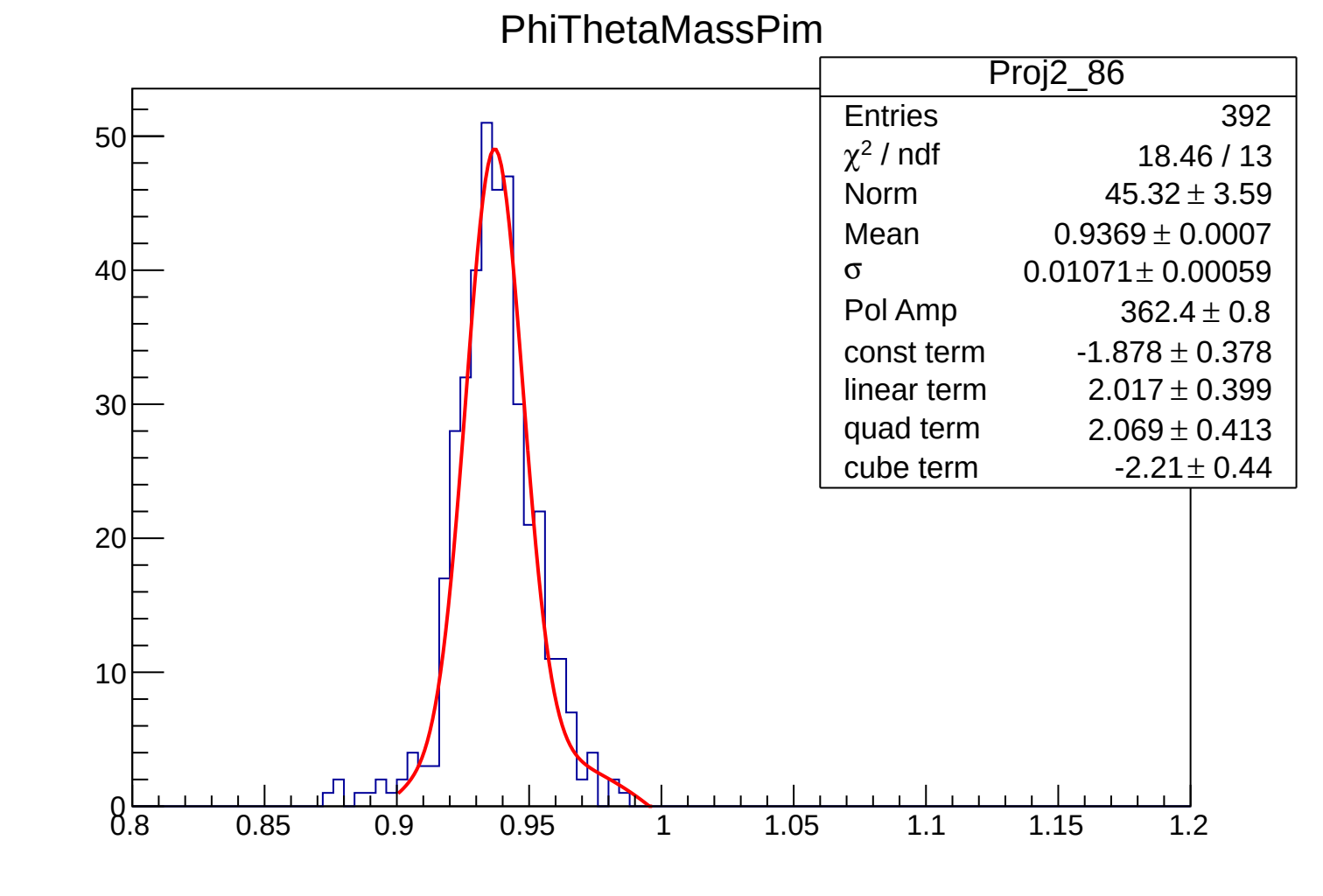

PhiThetaMassPim
Proj2_81
Entries 239
χ² / ndf 8.312 / 13
Norm 33.82 ± 3.12
Mean 0.9279 ± 0.0008
σ 0.009766 ± 0.000756
Pol Amp 269.5 ± 250.4
const term -0.8245 ± 0.0142
linear term 0.8826 ± 0.0159
quad term 0.8779 ± 0.0166
cube term -0.9342 ± 0.0162
0
5
10
15
20
25
30
35
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

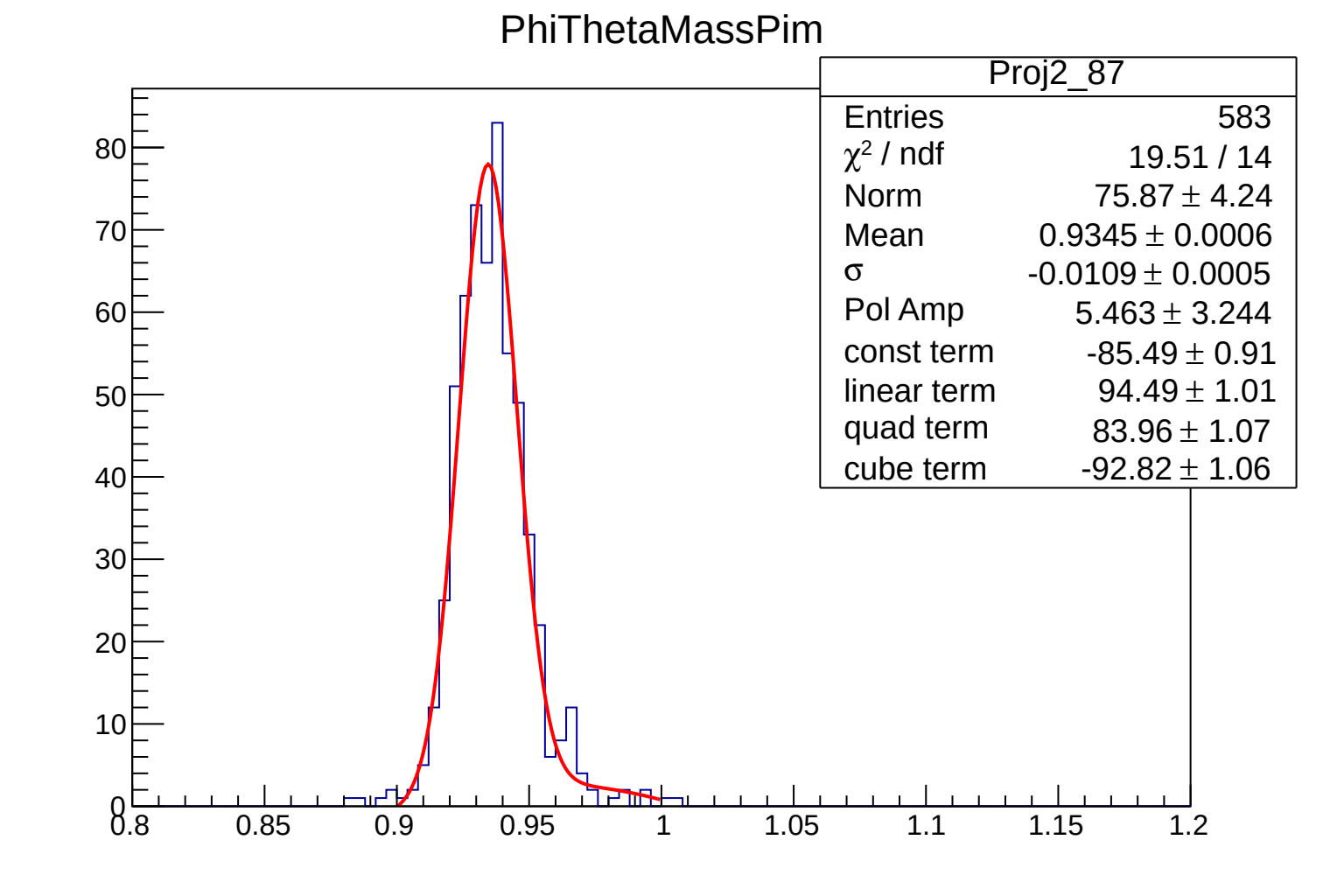

PhiThetaMassPim
Proj2_82
Entries 407
χ² / ndf 8.66 / 11
Norm 55.12 ± 4.21
Mean 0.9342 ± 0.0006
σ 0.009414 ± 0.000728
Pol Amp 407.5 ± 219.9
const term -0.4359 ± 0.0148
linear term 0.5306 ± 0.0152
quad term 0.4818 ± 0.0154
cube term -0.5762 ± 0.0156
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

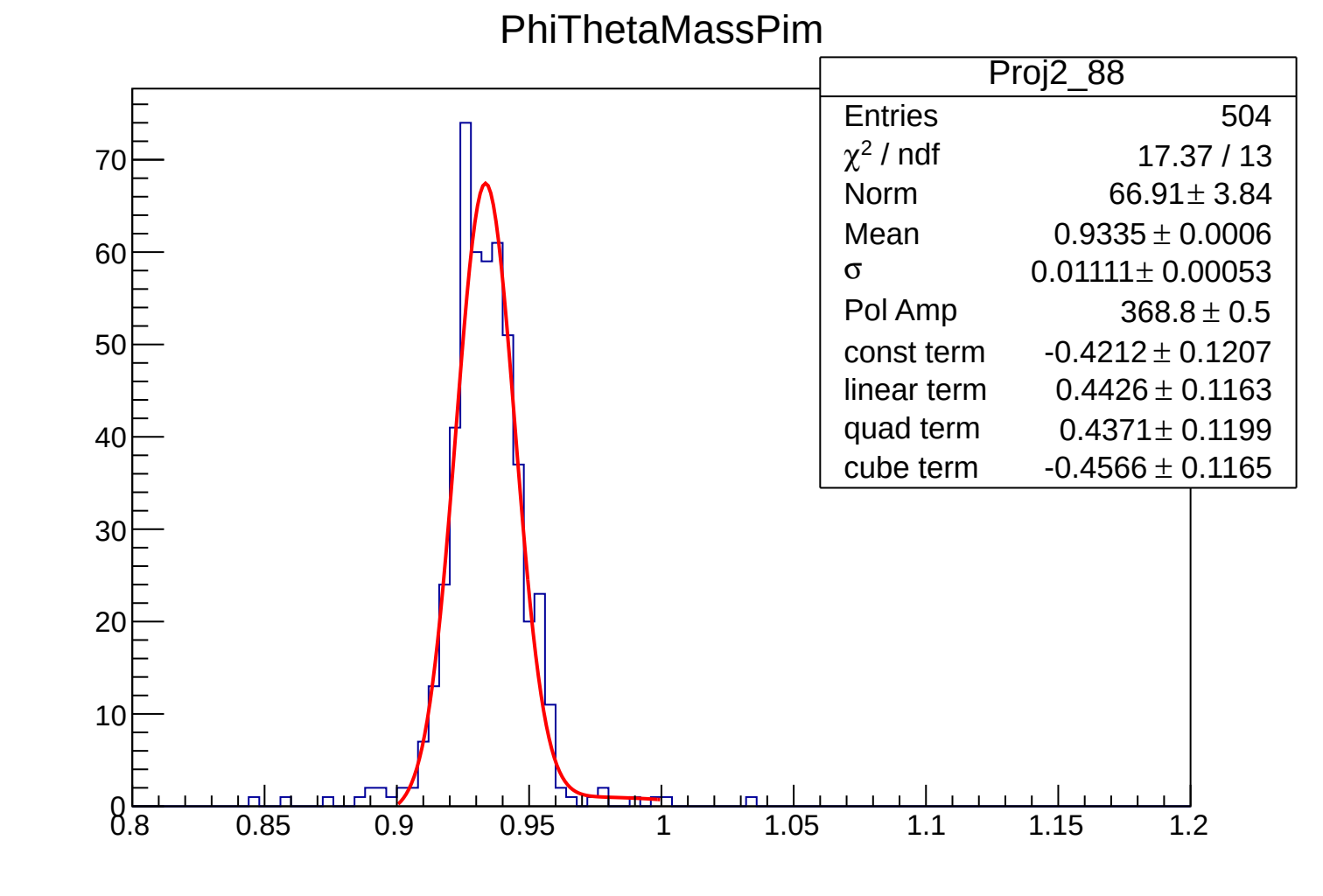

PhiThetaMassPim
Proj2_83
Entries 562
χ² / ndf 16.31 / 15
Norm 72.3 ± 4.2
Mean 0.9352 ± 0.0006
σ 0.01119 ± 0.00049
Pol Amp 370.2 ± 0.3
const term -0.9616 ± 0.1630
linear term 1.035 ± 0.169
quad term 1.016 ± 0.168
cube term -1.088 ± 0.175
90
80
70
60
50
40
30
20
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

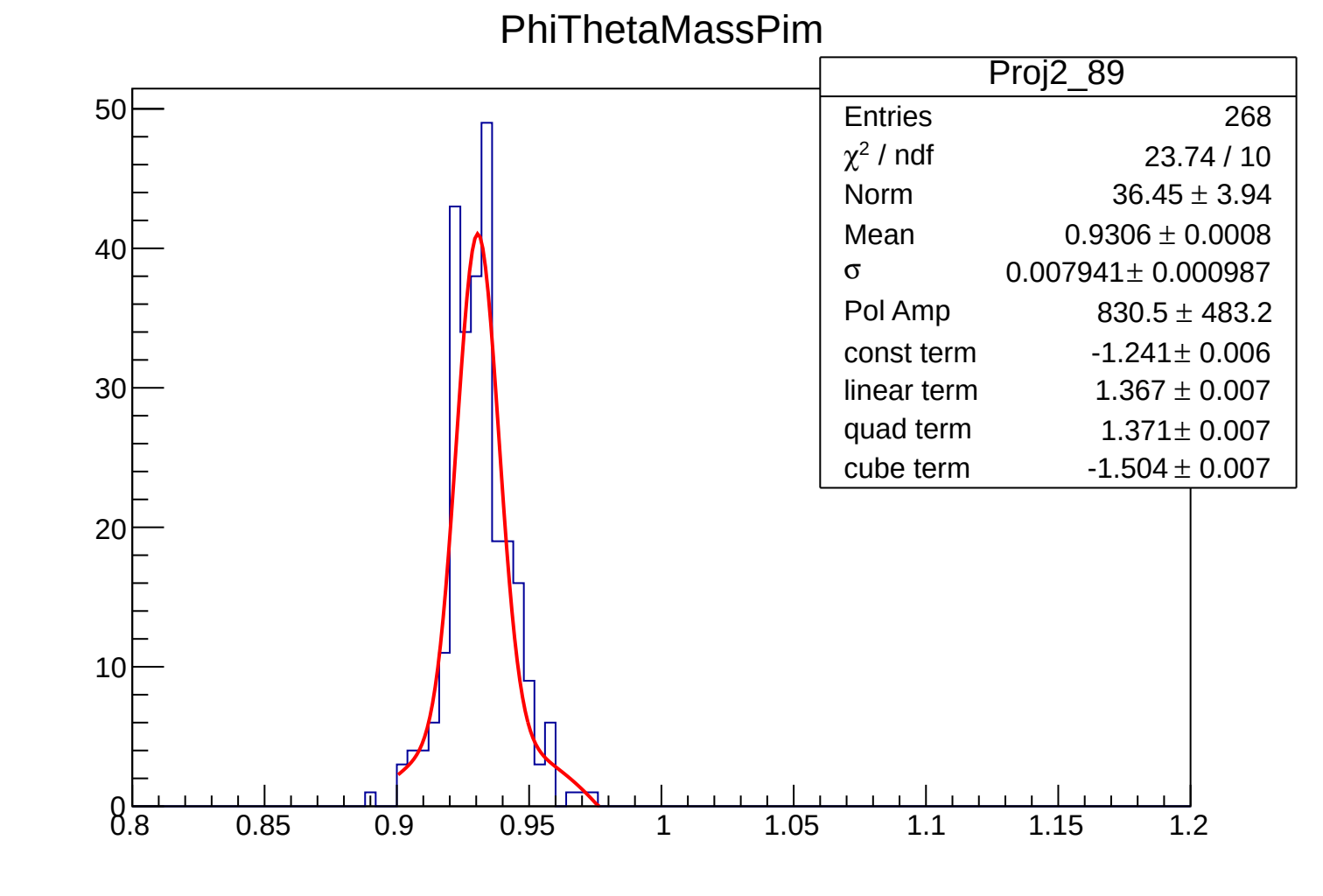

PhiThetaMassPim
Proj2_84
Entries 576
χ² / ndf 22.29 / 15
Norm 74.38 ± 4.57
Mean 0.9334 ± 0.0006
σ 0.01049 ± 0.00055
Pol Amp 597.7 ± 331.6
const term -0.8361 ± 0.0082
linear term 0.9116 ± 0.0093
quad term 0.8861 ± 0.0095
cube term -0.9607 ± 0.0089
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

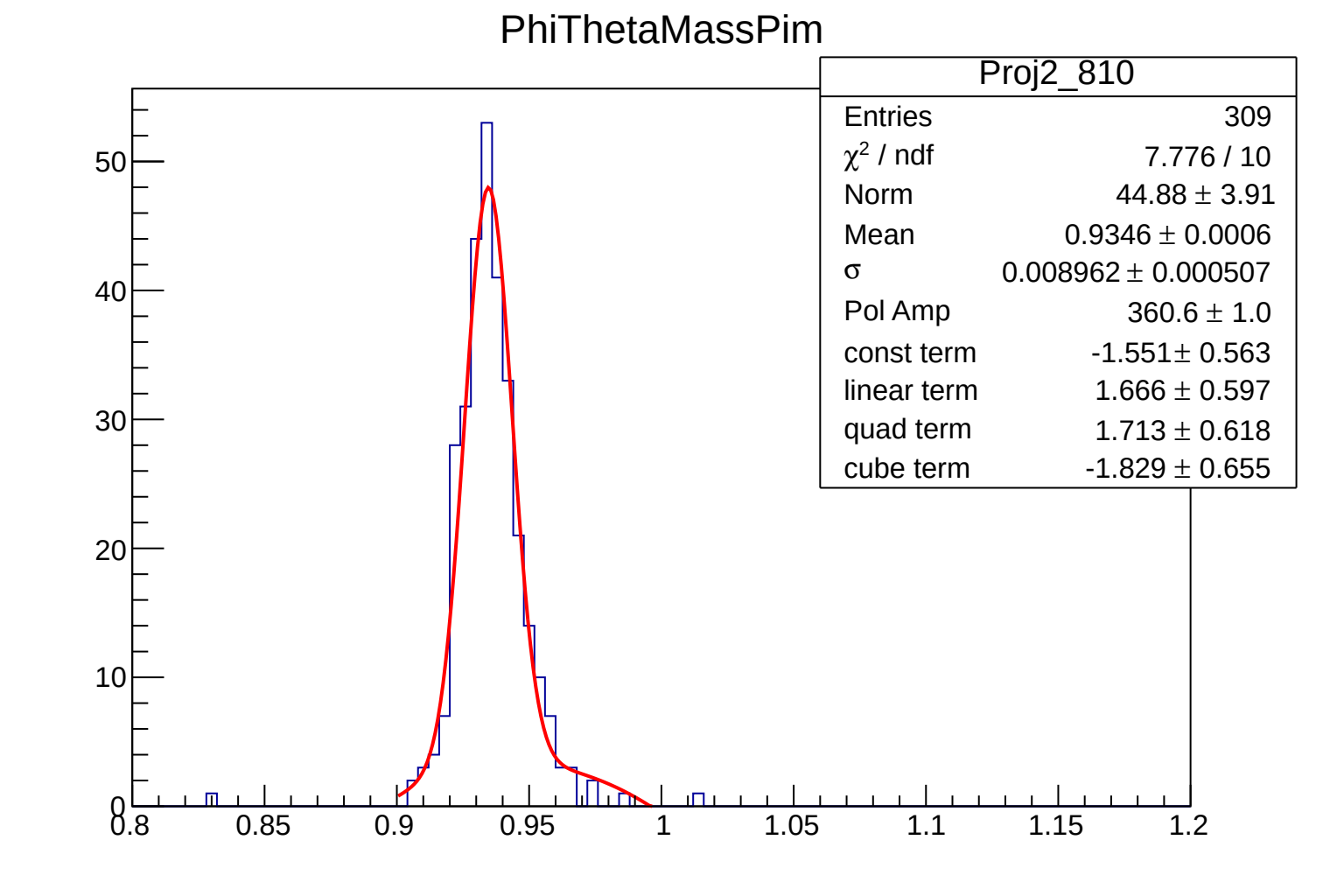

PhiThetaMassPim
Proj2_85
Entries 351
χ² / ndf 19.34 / 11
Norm 50.87 ± 4.49
Mean 0.9298 ± 0.0007
σ 0.007096 ± 0.000537
Pol Amp 363.5 ± 1.5
const term -3.061± 1.146
linear term 3.346 ± 1.232
quad term 3.358 ± 1.248
cube term -3.651± 1.339
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

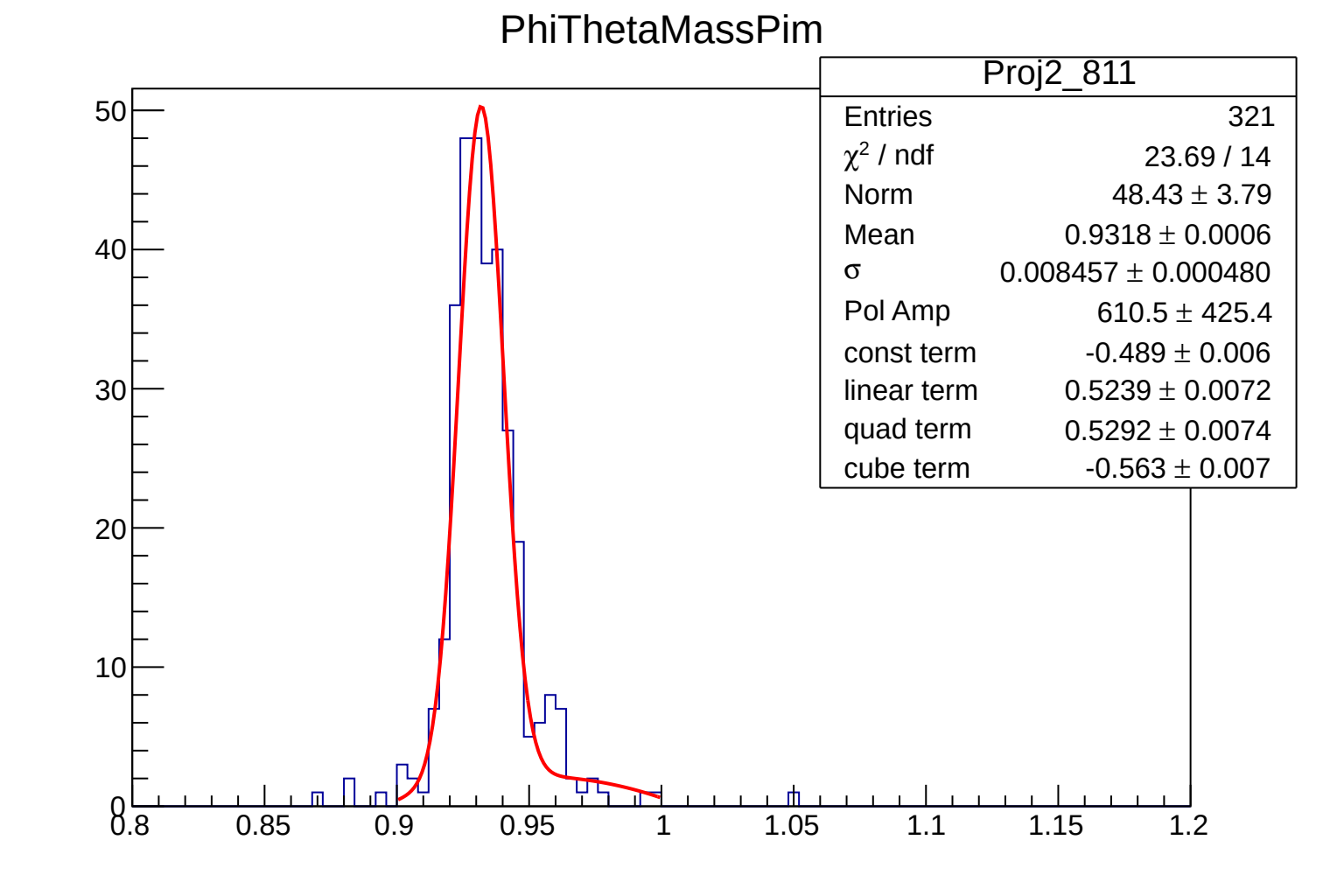

PhiThetaMassPim
Proj2_86
Entries 392
χ² / ndf 18.46 / 13
Norm 45.32 ± 3.59
Mean 0.9369 ± 0.0007
σ 0.01071 ± 0.00059
Pol Amp 362.4 ± 0.8
const term -1.878 ± 0.378
linear term 2.017 ± 0.399
quad term 2.069 ± 0.413
cube term -2.21 ± 0.44
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_87
Entries 583
χ² / ndf 19.51 / 14
Norm 75.87 ± 4.24
Mean 0.9345 ± 0.0006
σ -0.0109 ± 0.0005
Pol Amp 5.463 ± 3.244
const term -85.49 ± 0.91
linear term 94.49 ± 1.01
quad term 83.96 ± 1.07
cube term -92.82 ± 1.06
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_88
Entries 504
χ² / ndf 17.37 / 13
Norm 66.91 ± 3.84
Mean 0.9335 ± 0.0006
σ 0.01111 ± 0.00053
Pol Amp 368.8 ± 0.5
const term -0.4212 ± 0.1207
linear term 0.4426 ± 0.1163
quad term 0.4371 ± 0.1199
cube term -0.4566 ± 0.1165
0
10
20
30
40
50
60
70
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_89
Entries 268
χ² / ndf 23.74 / 10
Norm 36.45 ± 3.94
Mean 0.9306 ± 0.0008
σ 0.007941± 0.000987
Pol Amp 830.5 ± 483.2
const term -1.241± 0.006
linear term 1.367 ± 0.007
quad term 1.371± 0.007
cube term -1.504 ± 0.007
50
40
30
20
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_810
Entries 309
χ² / ndf 7.776 / 10
Norm 44.88 ± 3.91
Mean 0.9346 ± 0.0006
σ 0.008962 ± 0.000507
Pol Amp 360.6 ± 1.0
const term -1.551± 0.563
linear term 1.666 ± 0.597
quad term 1.713 ± 0.618
cube term -1.829 ± 0.655
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_811
Entries 321
χ² / ndf 23.69 / 14
Norm 48.43 ± 3.79
Mean 0.9318 ± 0.0006
σ 0.008457 ± 0.000480
Pol Amp 610.5 ± 425.4
const term -0.489 ± 0.006
linear term 0.5239 ± 0.0072
quad term 0.5292 ± 0.0074
cube term -0.563 ± 0.007
50
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30
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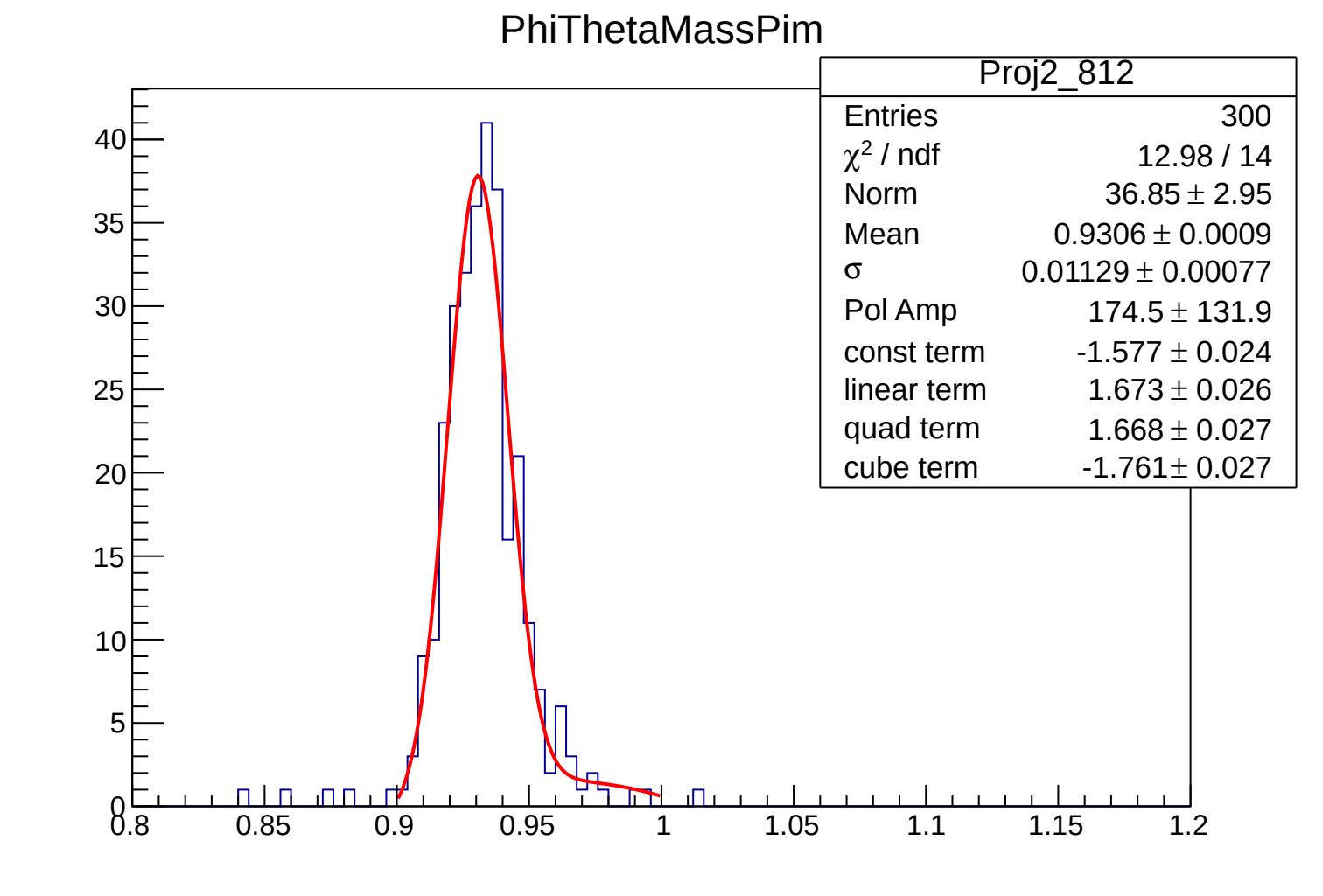
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_812
Entries 300
χ² / ndf 12.98 / 14
Norm 36.85 ± 2.95
Mean 0.9306 ± 0.0009
σ 0.01129 ± 0.00077
Pol Amp 174.5 ± 131.9
const term -1.577 ± 0.024
linear term 1.673 ± 0.026
quad term 1.668 ± 0.027
cube term -1.761 ± 0.027
0
5
10
15
20
25
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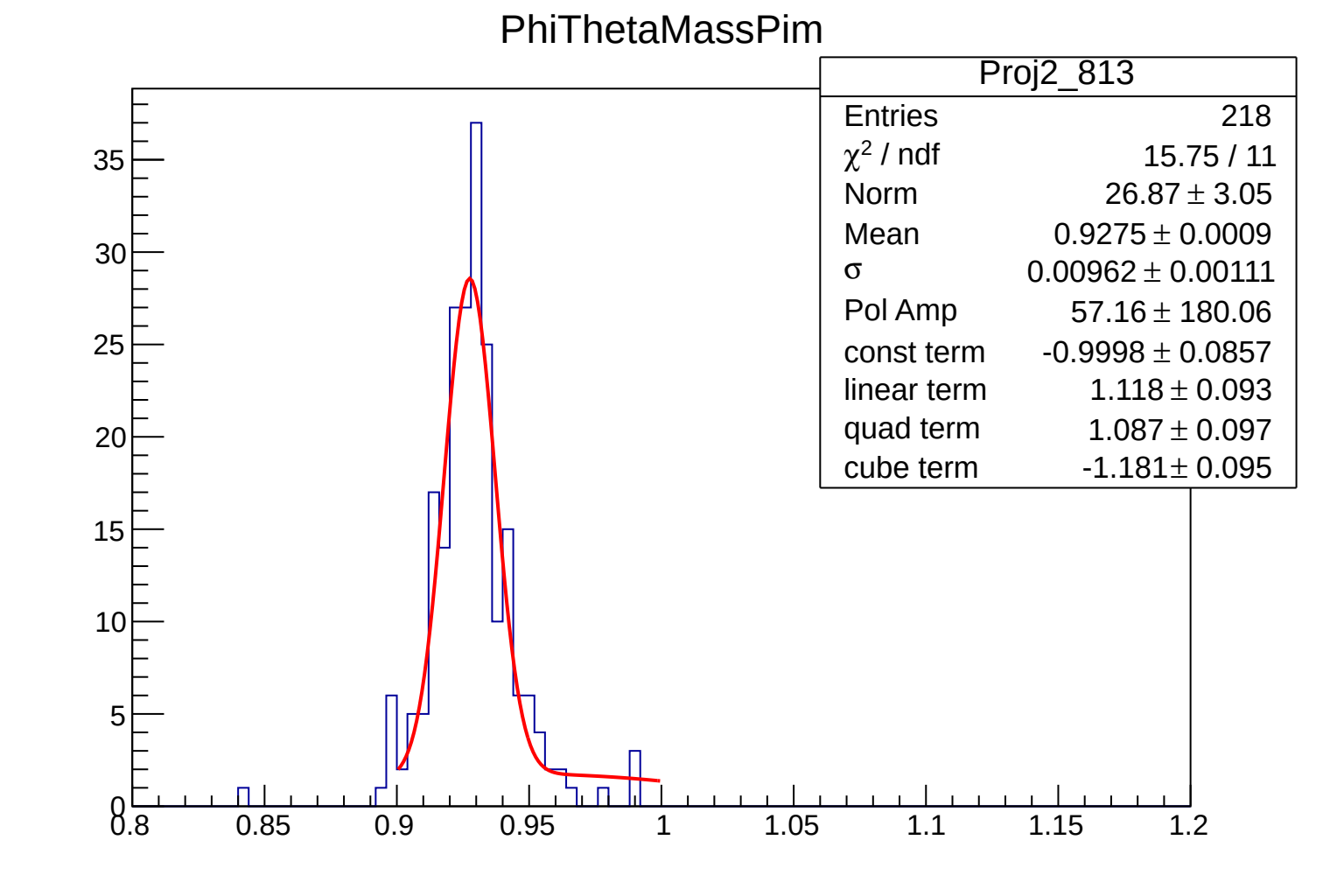
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_813
Entries 218
χ² / ndf 15.75 / 11
Norm 26.87 ± 3.05
Mean 0.9275 ± 0.0009
σ 0.00962 ± 0.00111
Pol Amp 57.16 ± 180.06
const term -0.9998 ± 0.0857
linear term 1.118 ± 0.093
quad term 1.087 ± 0.097
cube term -1.181 ± 0.095
0
5
10
15
20
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30
35
0.8
0.85
0.9
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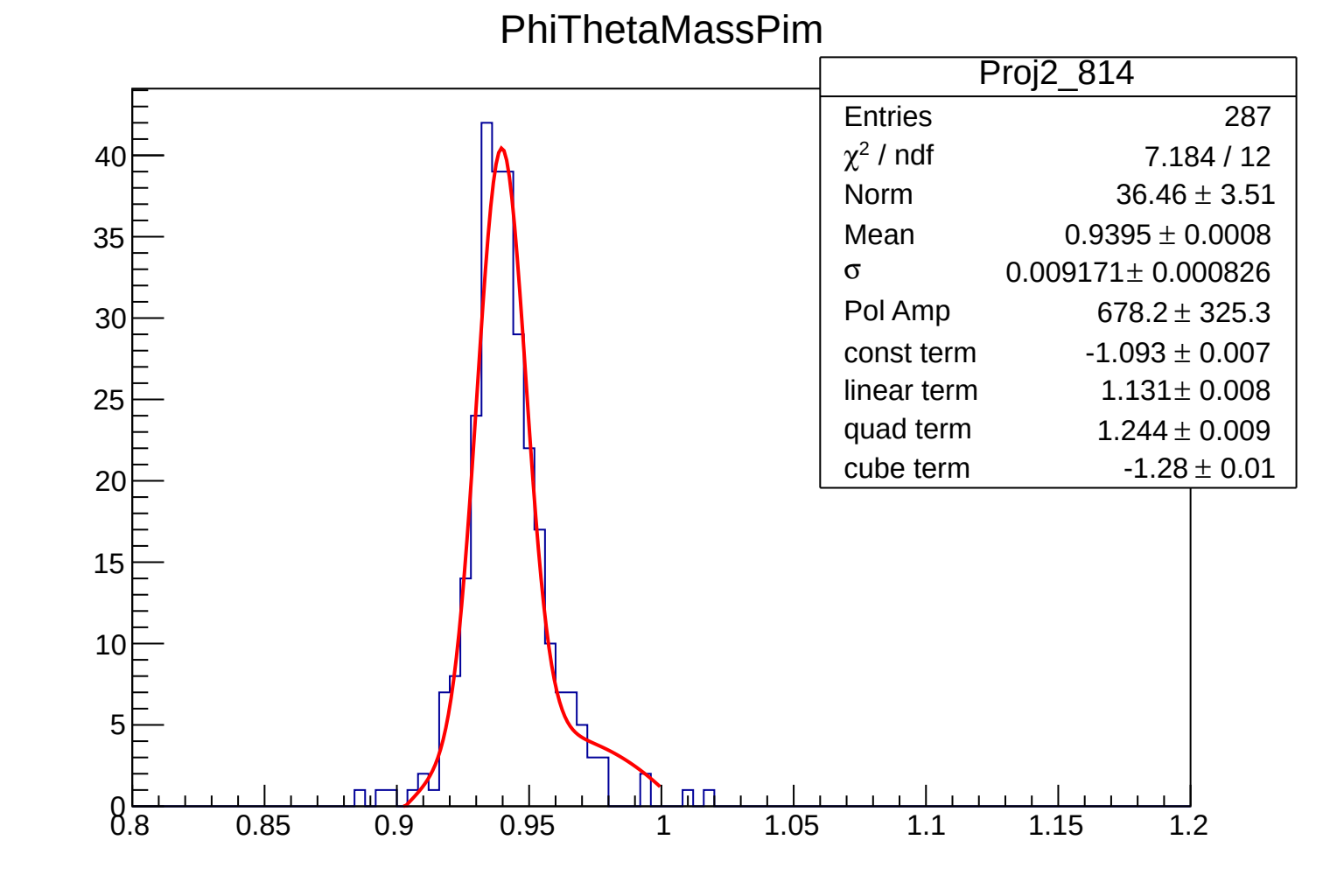
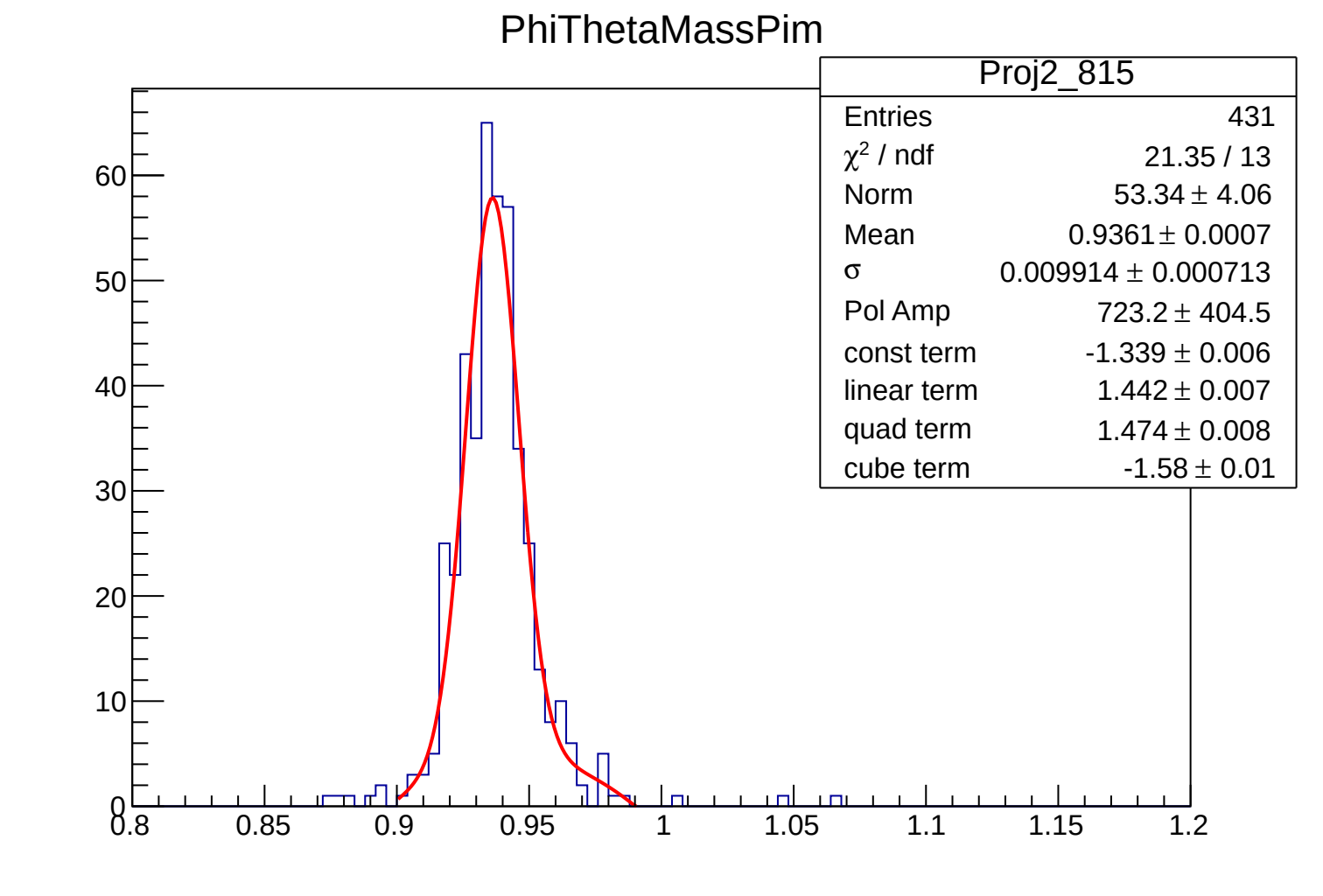
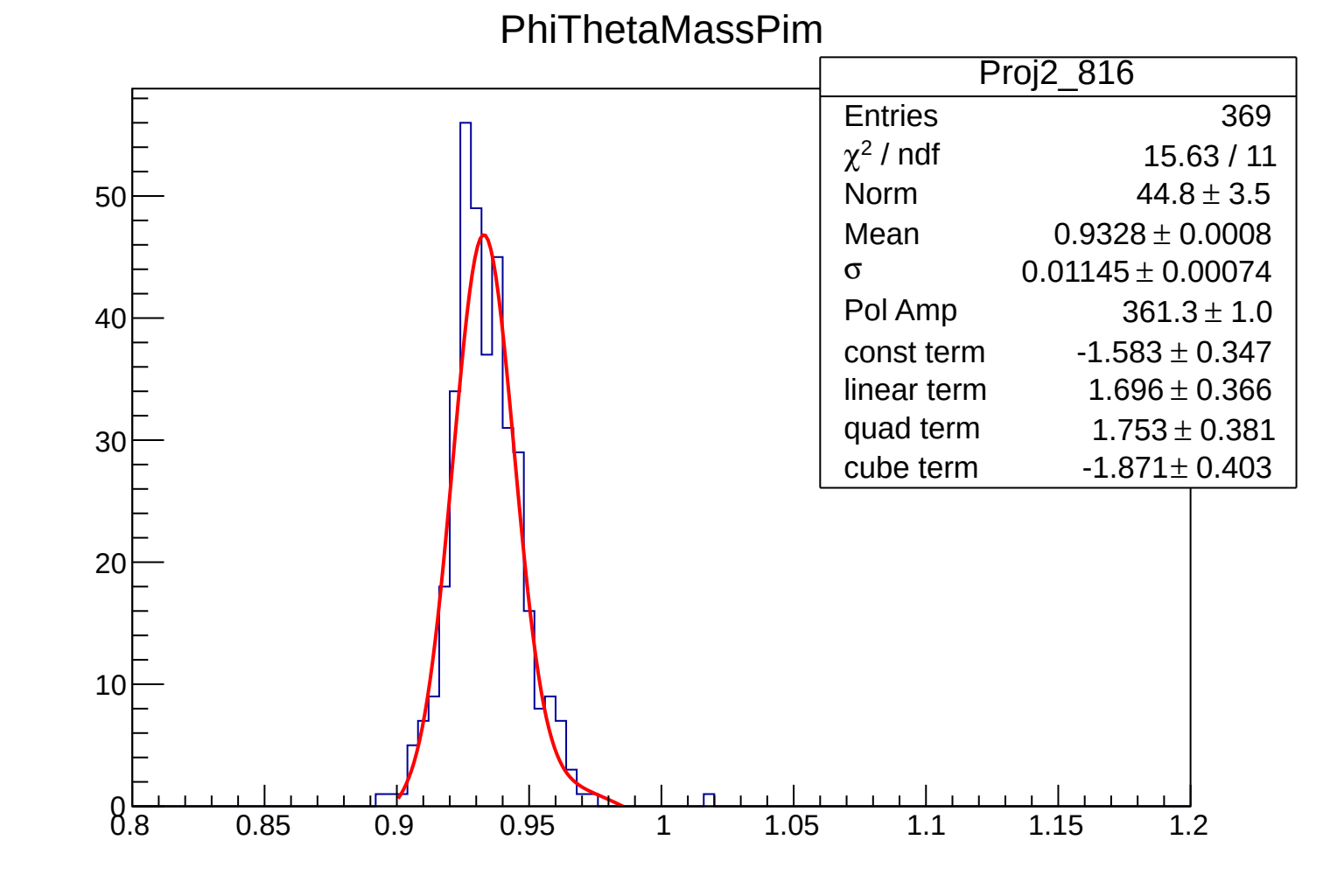
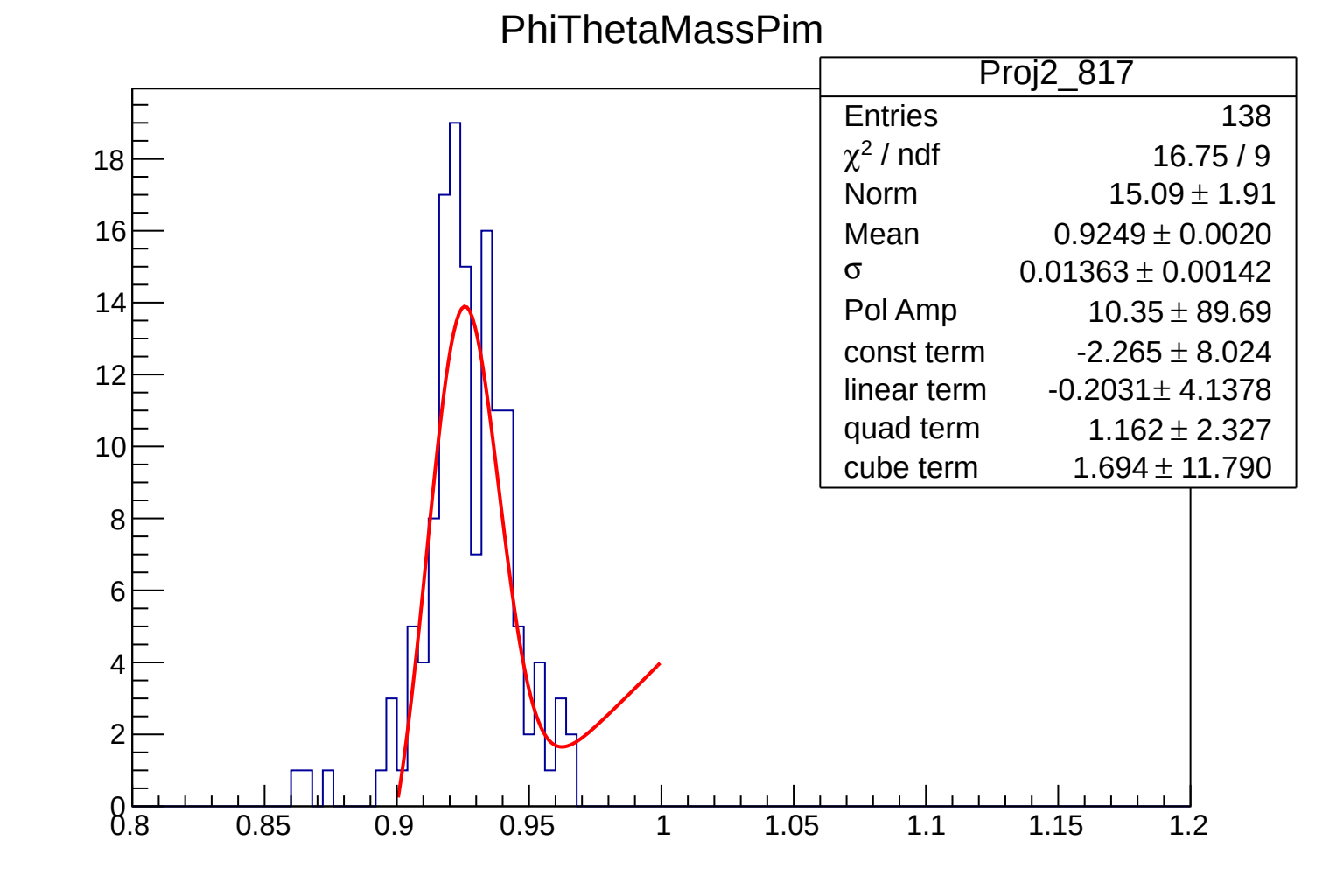
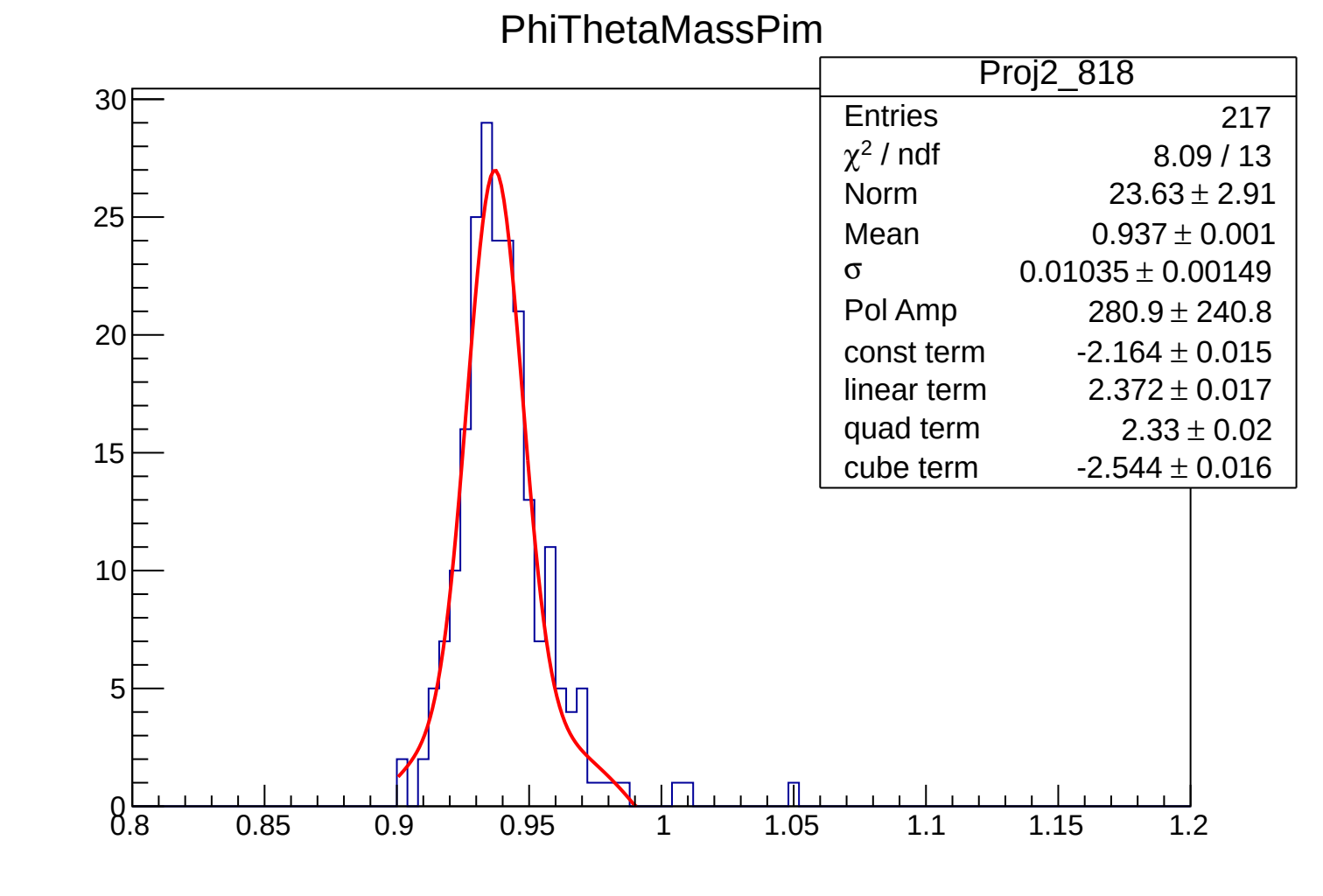
1
1.05
1.1
1.15
1.2

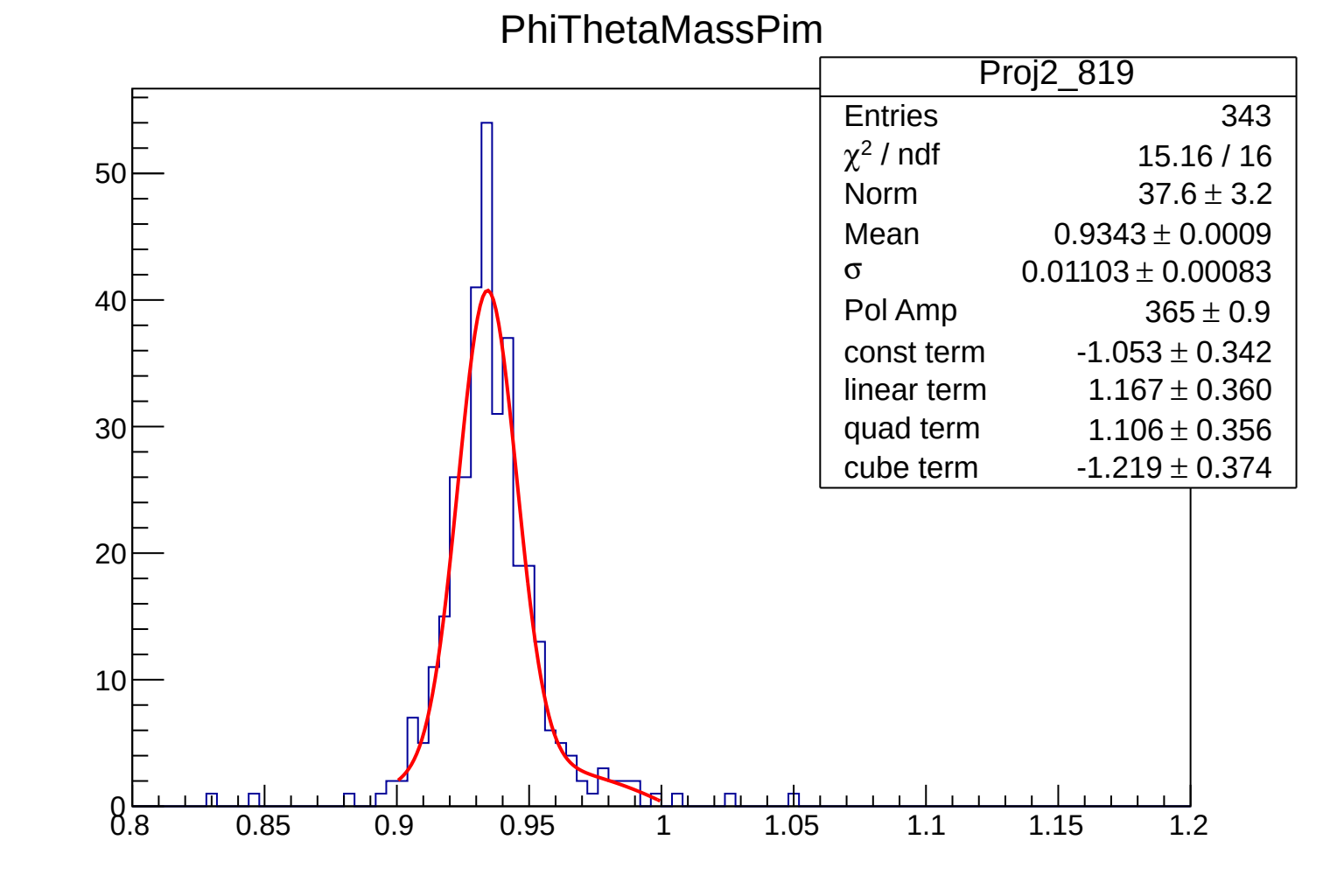

PhiThetaMassPim
Proj2_814
Entries 287
χ² / ndf 7.184 / 12
Norm 36.46 ± 3.51
Mean 0.9395 ± 0.0008
σ 0.009171± 0.000826
Pol Amp 678.2 ± 325.3
const term -1.093 ± 0.007
linear term 1.131± 0.008
quad term 1.244 ± 0.009
cube term -1.28 ± 0.01
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

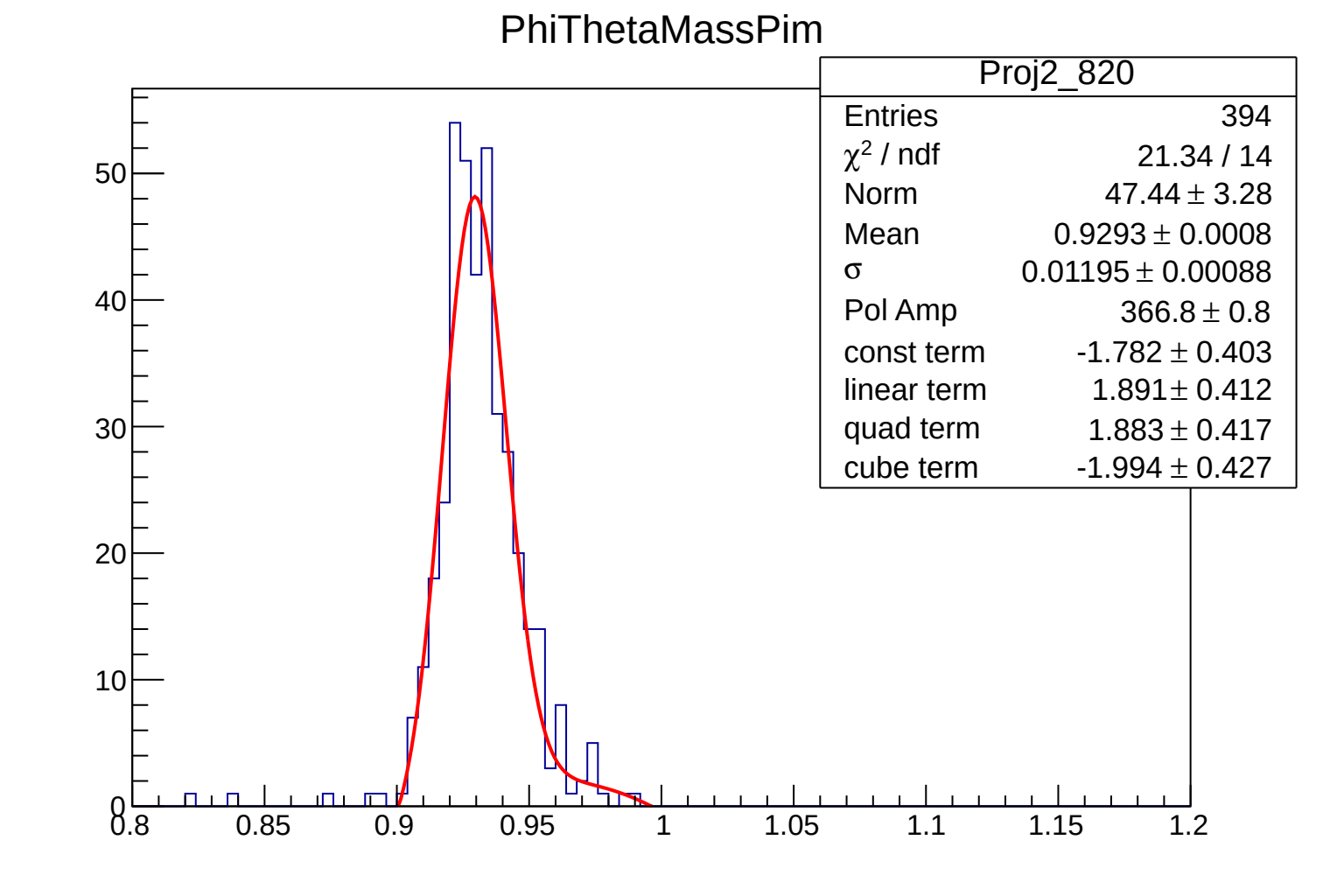

PhiThetaMassPim
Proj2_815
Entries 431
χ² / ndf 21.35 / 13
Norm 53.34 ± 4.06
Mean 0.9361 ± 0.0007
σ 0.009914 ± 0.000713
Pol Amp 723.2 ± 404.5
const term -1.339 ± 0.006
linear term 1.442 ± 0.007
quad term 1.474 ± 0.008
cube term -1.58 ± 0.01
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

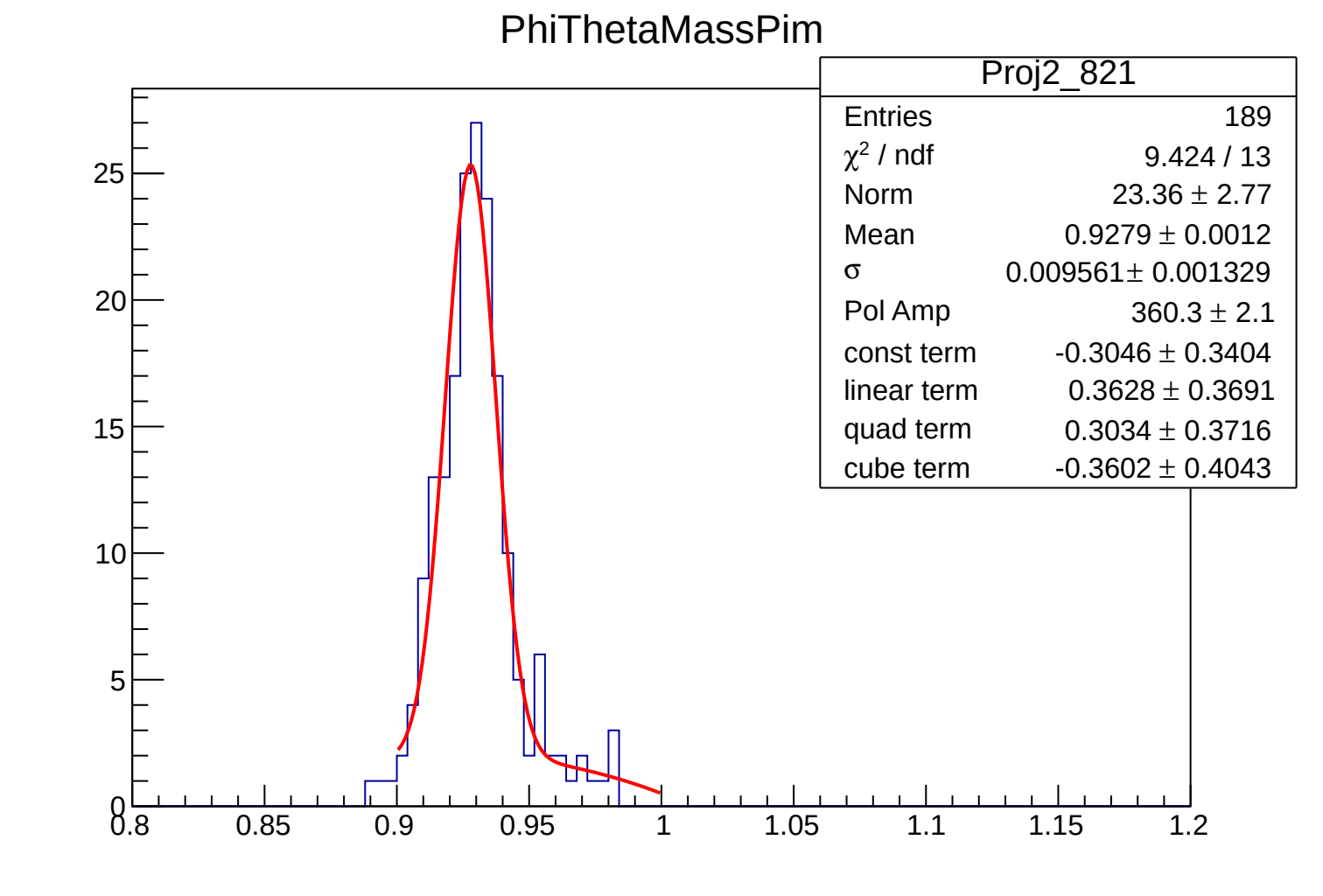

PhiThetaMassPim
Proj2_816
Entries 369
χ² / ndf 15.63 / 11
Norm 44.8 ± 3.5
Mean 0.9328 ± 0.0008
σ 0.01145 ± 0.00074
Pol Amp 361.3 ± 1.0
const term -1.583 ± 0.347
linear term 1.696 ± 0.366
quad term 1.753 ± 0.381
cube term -1.871 ± 0.403
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

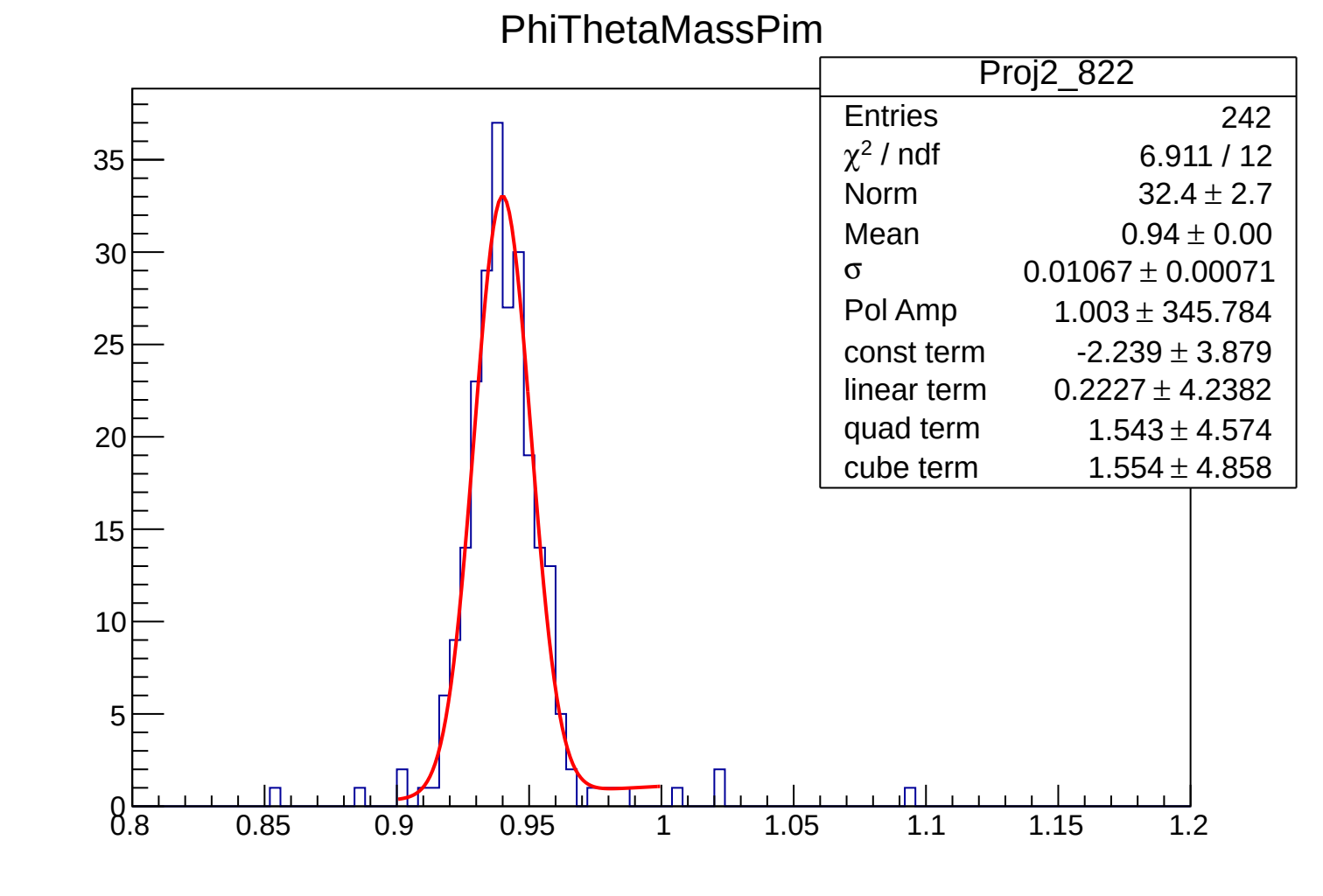

PhiThetaMassPim
Proj2_817
Entries 138
χ² / ndf 16.75 / 9
Norm 15.09 ± 1.91
Mean 0.9249 ± 0.0020
σ 0.01363 ± 0.00142
Pol Amp 10.35 ± 89.69
const term -2.265 ± 8.024
linear term -0.2031 ± 4.1378
quad term 1.162 ± 2.327
cube term 1.694 ± 11.790
0
2
4
6
8
10
12
14
16
18
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

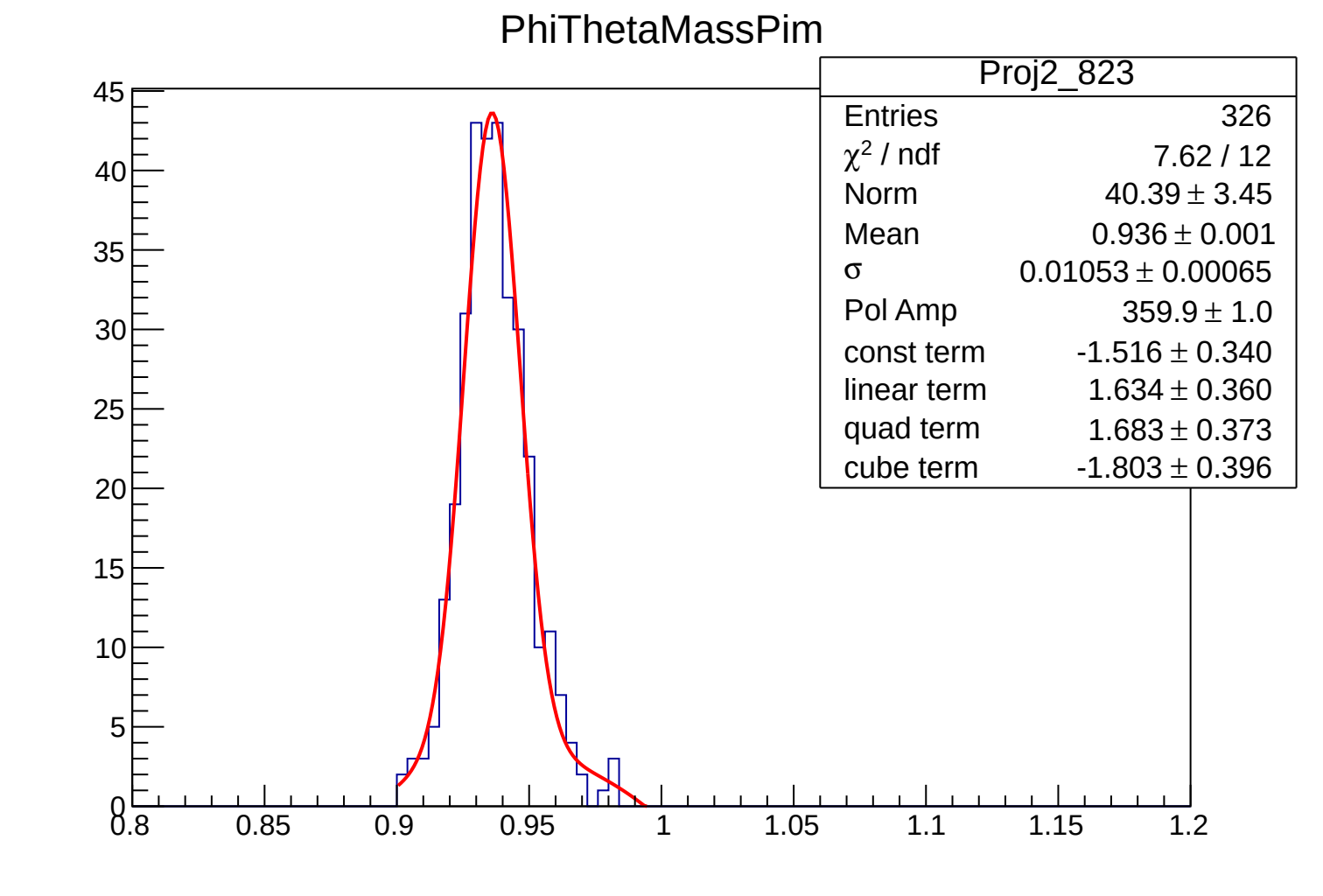

PhiThetaMassPim
Proj2_818
Entries 217
χ² / ndf 8.09 / 13
Norm 23.63 ± 2.91
Mean 0.937 ± 0.001
σ 0.01035 ± 0.00149
Pol Amp 280.9 ± 240.8
const term -2.164 ± 0.015
linear term 2.372 ± 0.017
quad term 2.33 ± 0.02
cube term -2.544 ± 0.016
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

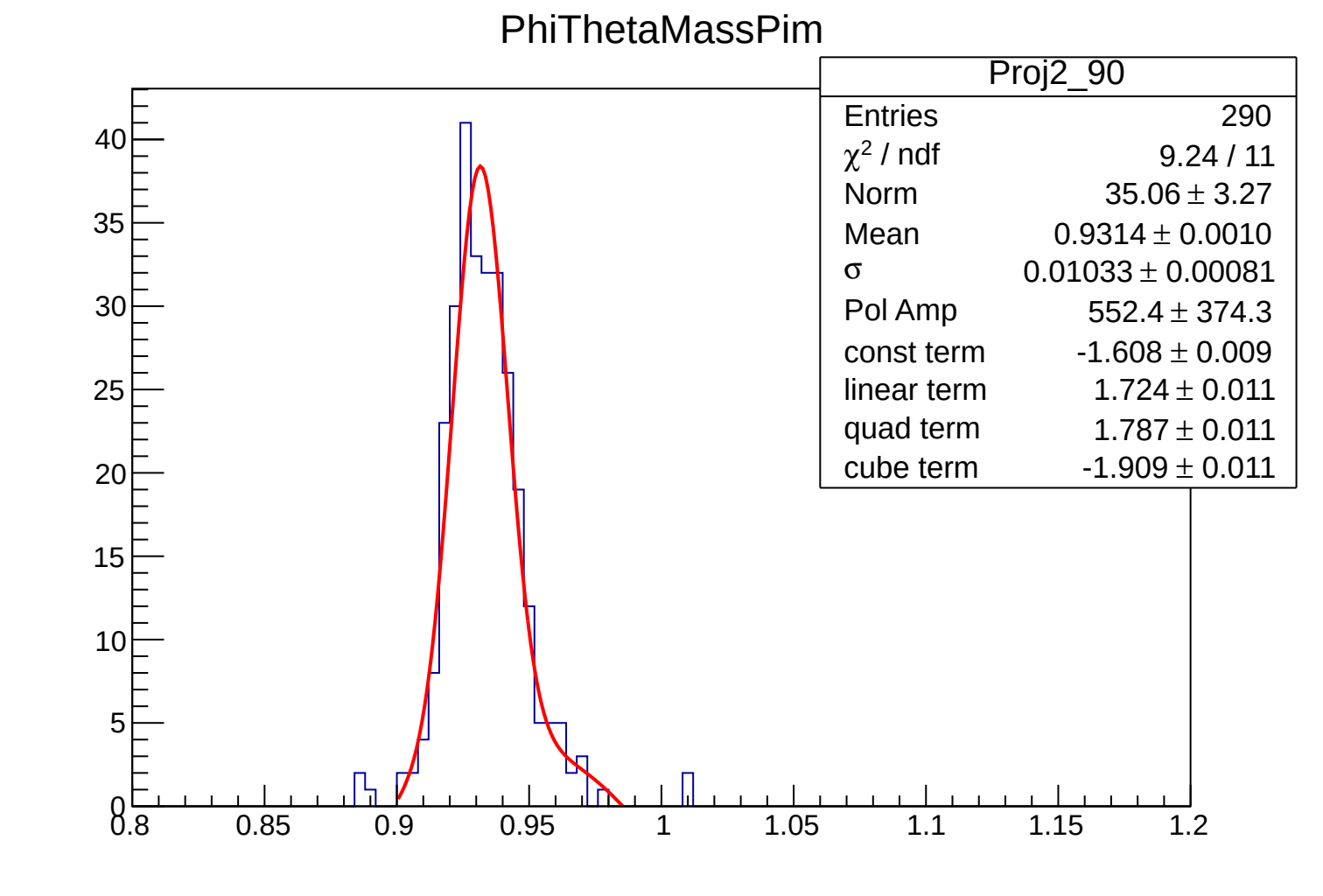

PhiThetaMassPim
Proj2_819
Entries 343
χ² / ndf 15.16 / 16
Norm 37.6 ± 3.2
Mean 0.9343 ± 0.0009
σ 0.01103 ± 0.00083
Pol Amp 365 ± 0.9
const term -1.053 ± 0.342
linear term 1.167 ± 0.360
quad term 1.106 ± 0.356
cube term -1.219 ± 0.374
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

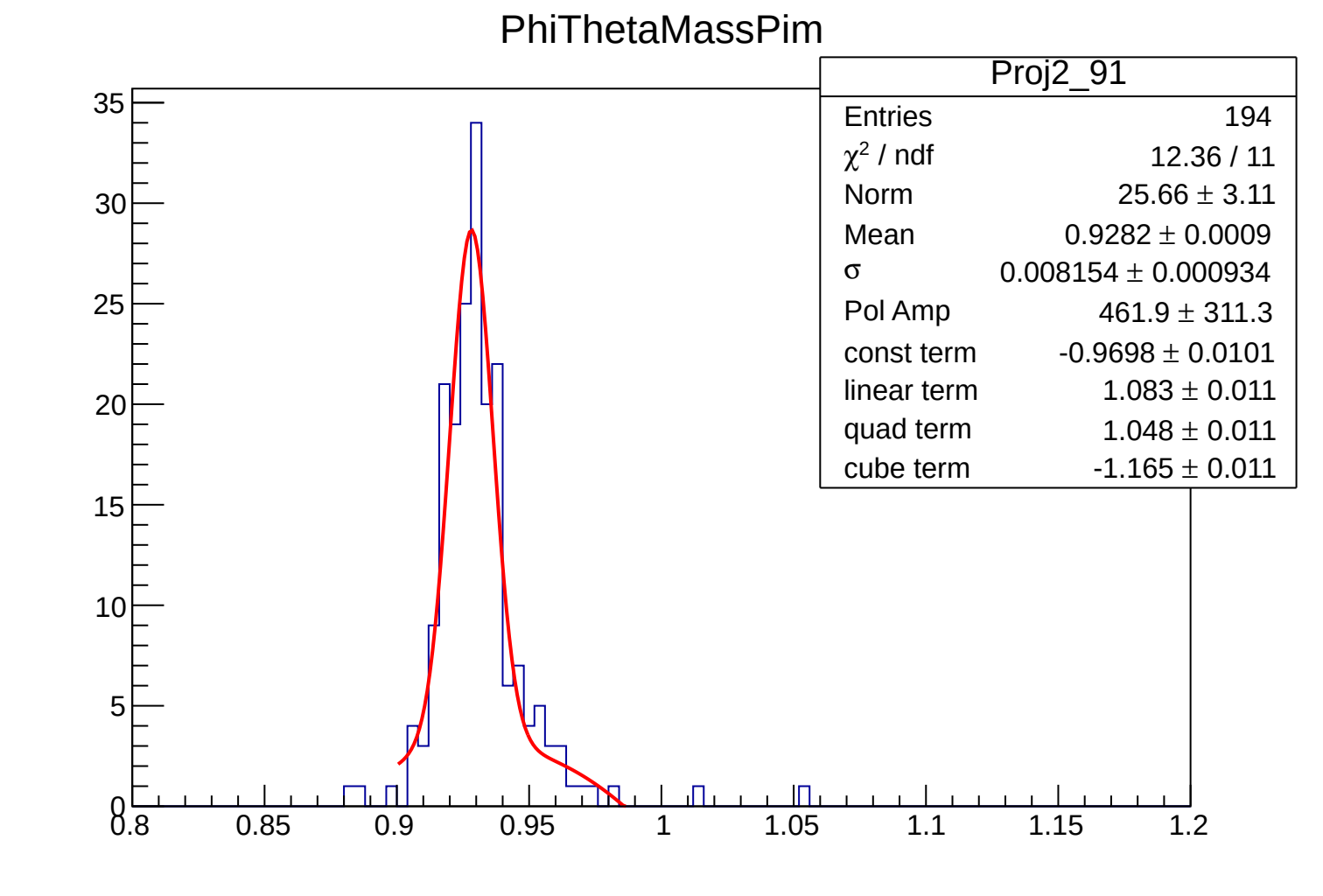

PhiThetaMassPim
Proj2_820
Entries 394
χ² / ndf 21.34 / 14
Norm 47.44 ± 3.28
Mean 0.9293 ± 0.0008
σ 0.01195 ± 0.00088
Pol Amp 366.8 ± 0.8
const term -1.782 ± 0.403
linear term 1.891 ± 0.412
quad term 1.883 ± 0.417
cube term -1.994 ± 0.427
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

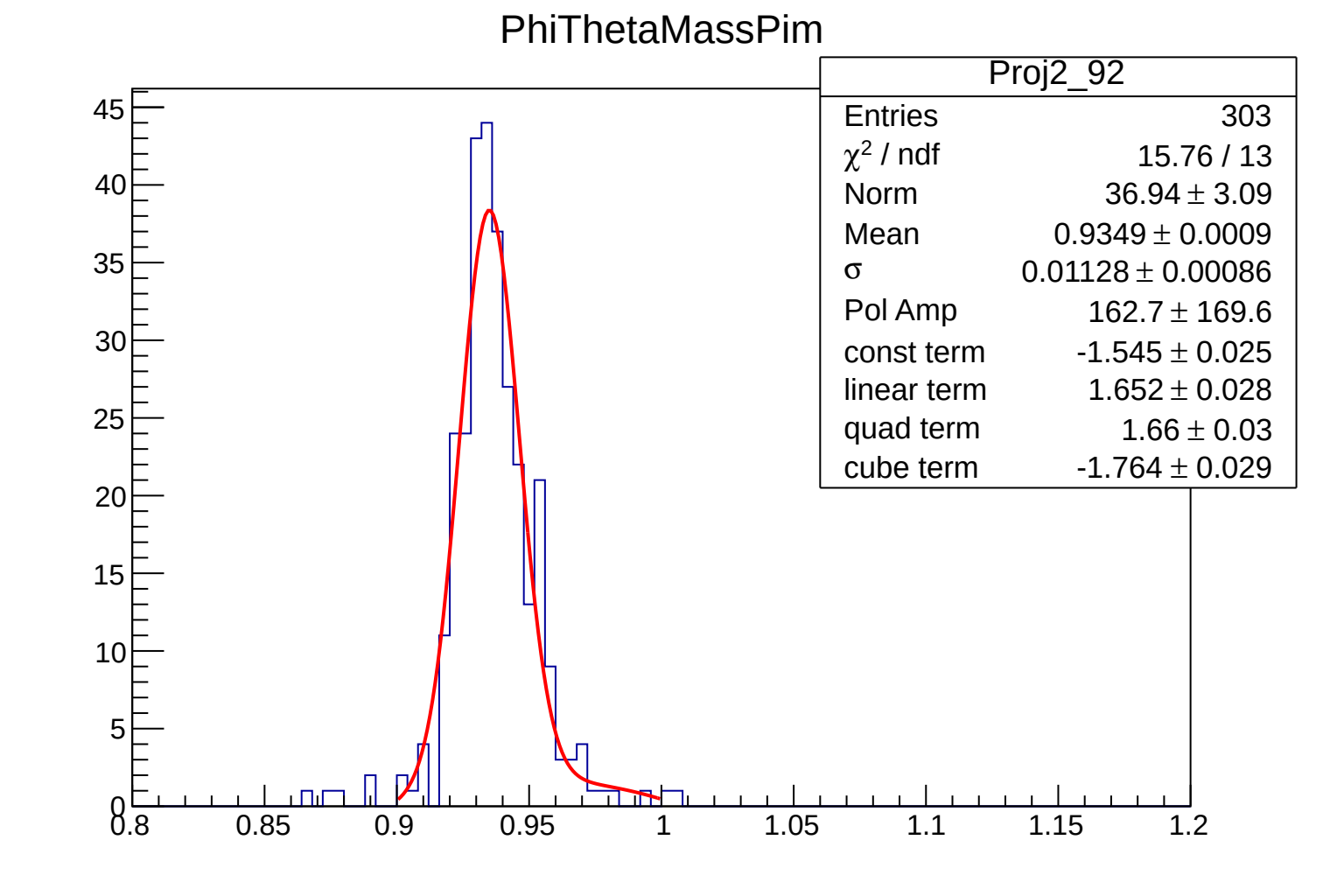

PhiThetaMassPim
Proj2_821
Entries 189
χ² / ndf 9.424 / 13
Norm 23.36 ± 2.77
Mean 0.9279 ± 0.0012
σ 0.009561± 0.001329
Pol Amp 360.3 ± 2.1
const term -0.3046 ± 0.3404
linear term 0.3628 ± 0.3691
quad term 0.3034 ± 0.3716
cube term -0.3602 ± 0.4043
0
5
10
15
20
25
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

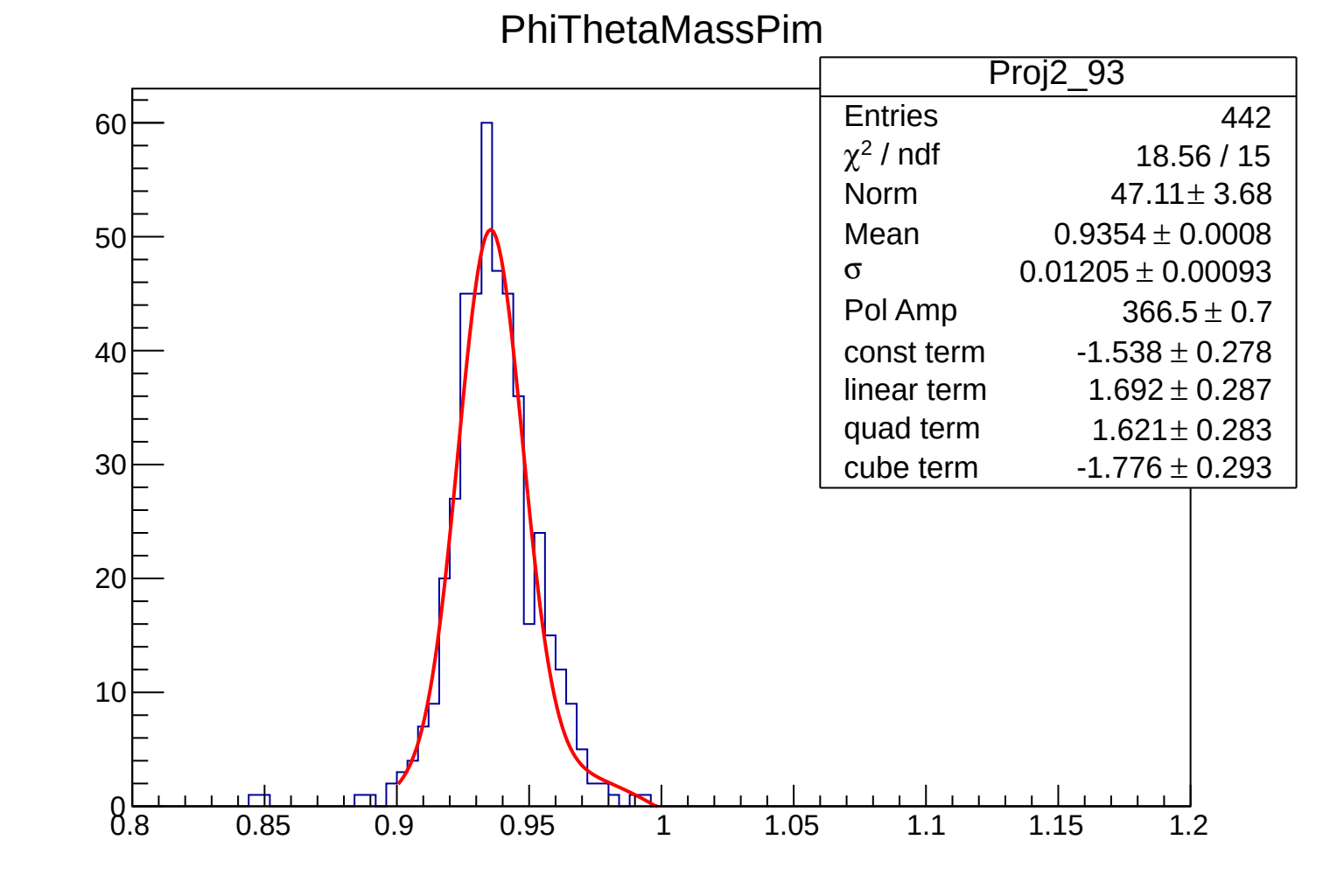

PhiThetaMassPim
Proj2_822
Entries 242
χ² / ndf 6.911 / 12
Norm 32.4 ± 2.7
Mean 0.94 ± 0.00
σ 0.01067 ± 0.00071
Pol Amp 1.003 ± 345.784
const term -2.239 ± 3.879
linear term 0.2227 ± 4.2382
quad term 1.543 ± 4.574
cube term 1.554 ± 4.858
0
5
10
15
20
25
30
35
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

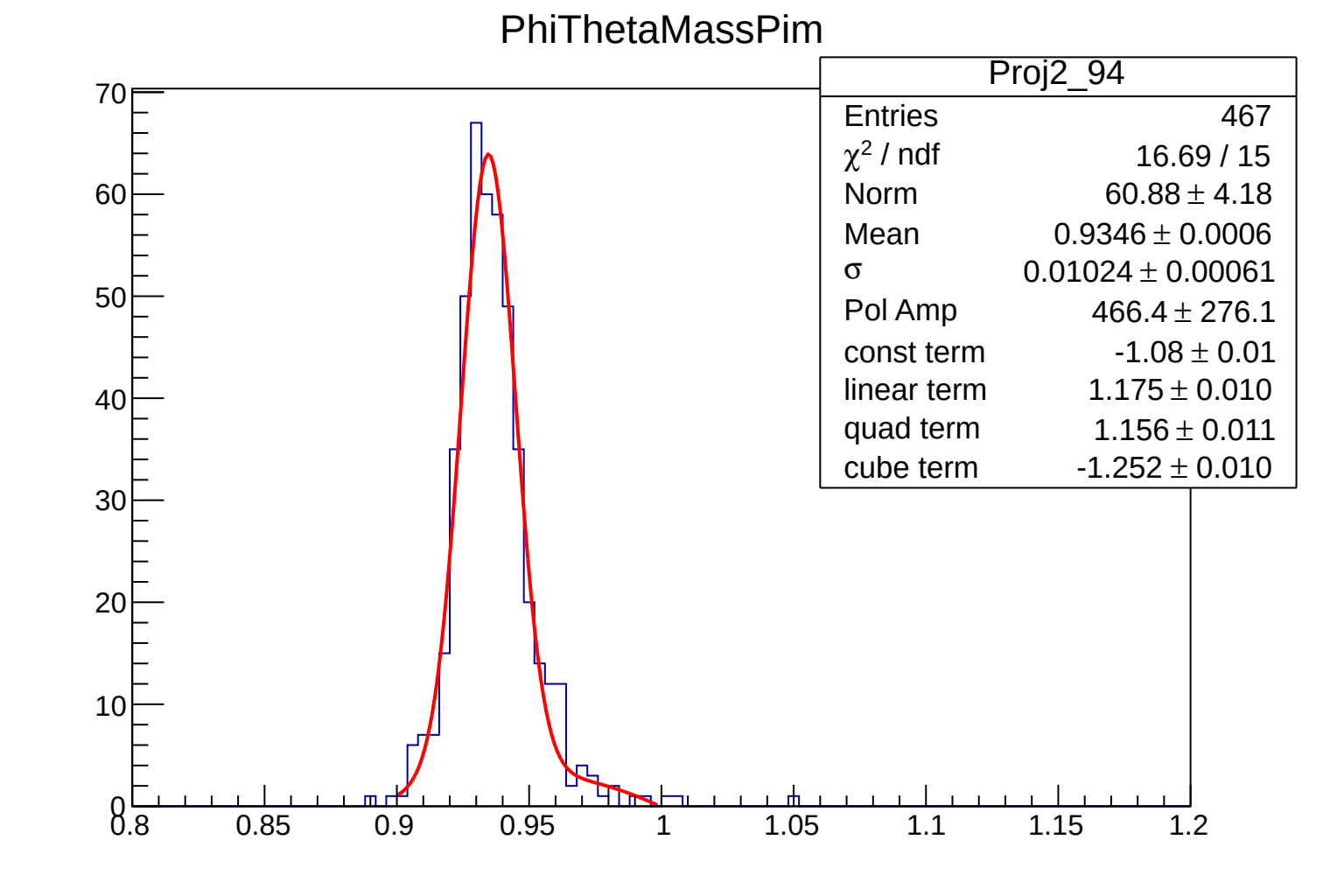

PhiThetaMassPim
Proj2_823
Entries 326
χ² / ndf 7.62 / 12
Norm 40.39 ± 3.45
Mean 0.936 ± 0.001
σ 0.01053 ± 0.00065
Pol Amp 359.9 ± 1.0
const term -1.516 ± 0.340
linear term 1.634 ± 0.360
quad term 1.683 ± 0.373
cube term -1.803 ± 0.396
45
40
35
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

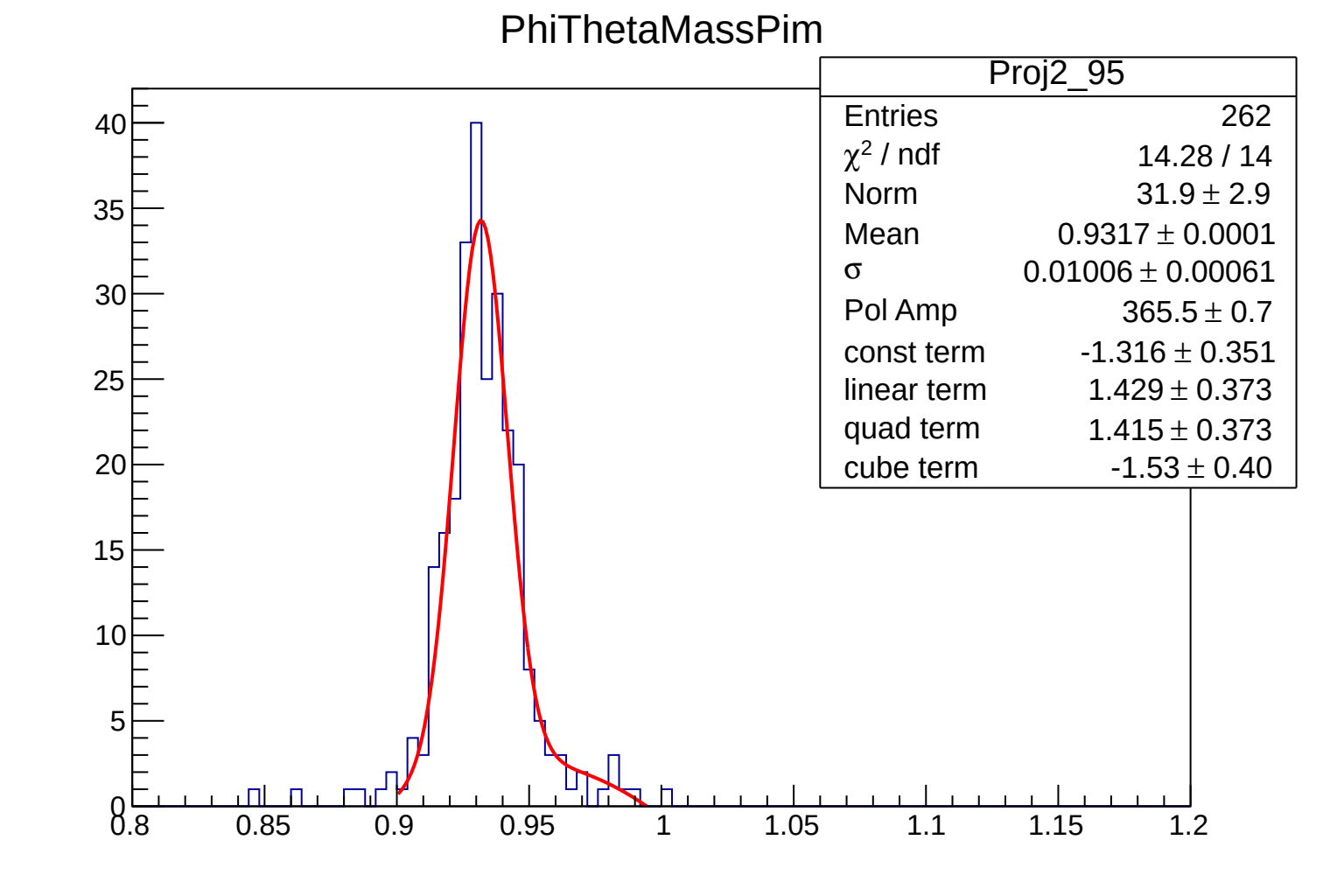

PhiThetaMassPim
Proj2_90
Entries 290
χ² / ndf 9.24 / 11
Norm 35.06 ± 3.27
Mean 0.9314 ± 0.0010
σ 0.01033 ± 0.00081
Pol Amp 552.4 ± 374.3
const term -1.608 ± 0.009
linear term 1.724 ± 0.011
quad term 1.787 ± 0.011
cube term -1.909 ± 0.011
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

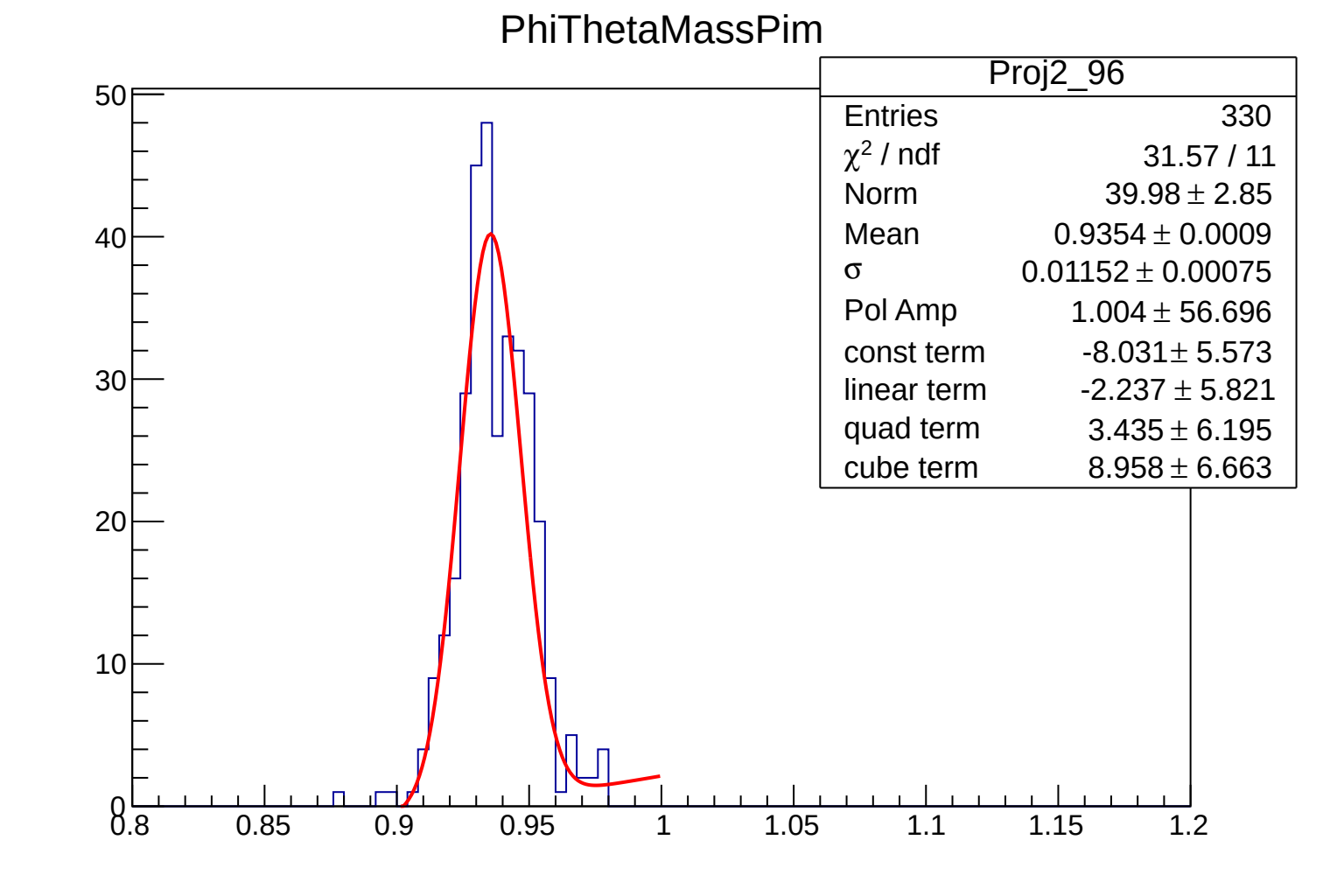

PhiThetaMassPim
Proj2_91
Entries 194
χ² / ndf 12.36 / 11
Norm 25.66 ± 3.11
Mean 0.9282 ± 0.0009
σ 0.008154 ± 0.000934
Pol Amp 461.9 ± 311.3
const term -0.9698 ± 0.0101
linear term 1.083 ± 0.011
quad term 1.048 ± 0.011
cube term -1.165 ± 0.011
35
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

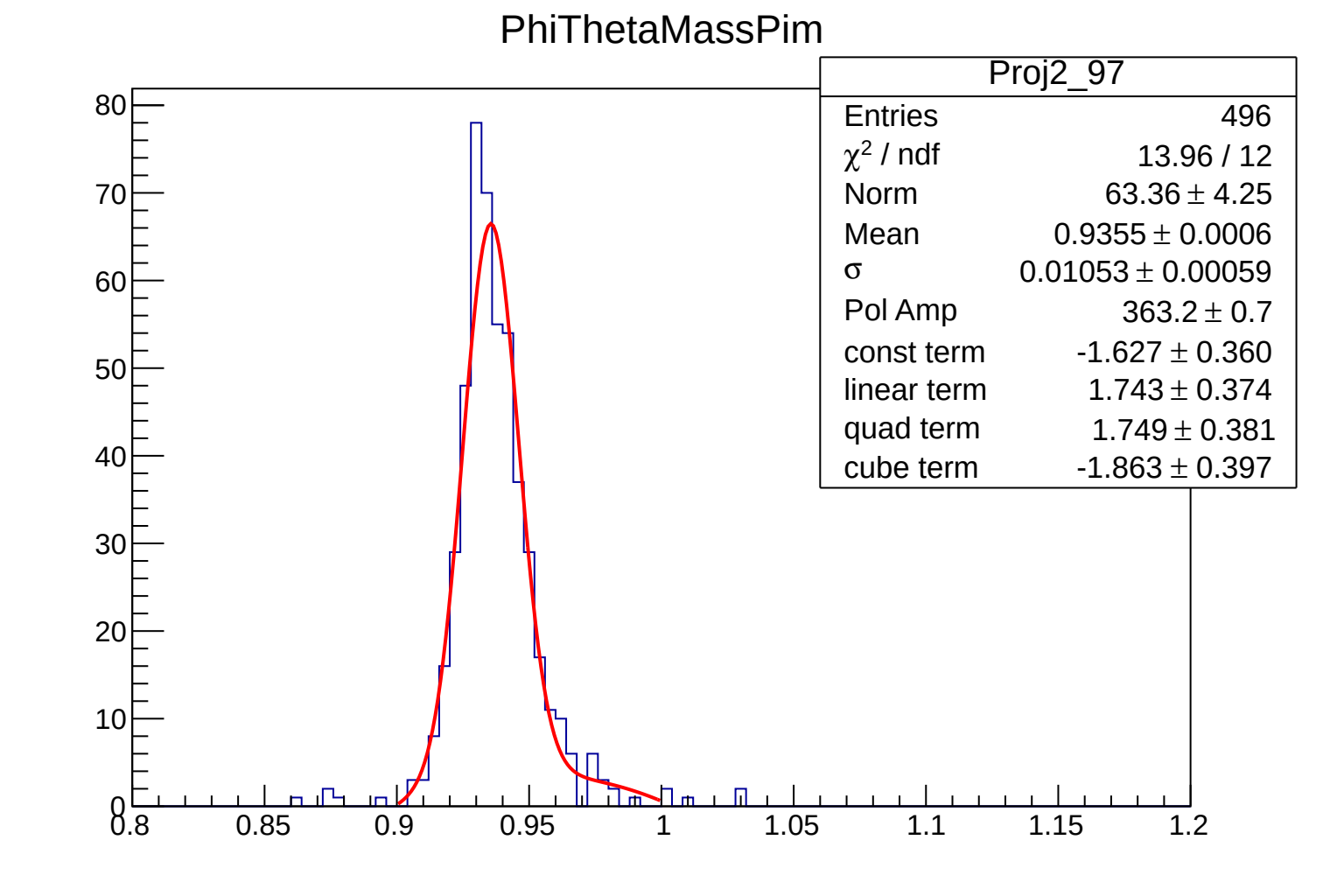

PhiThetaMassPim
Proj2_92
Entries 303
χ² / ndf 15.76 / 13
Norm 36.94 ± 3.09
Mean 0.9349 ± 0.0009
σ 0.01128 ± 0.00086
Pol Amp 162.7 ± 169.6
const term -1.545 ± 0.025
linear term 1.652 ± 0.028
quad term 1.66 ± 0.03
cube term -1.764 ± 0.029
0 5 10 15 20 25 30 35 40 45
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

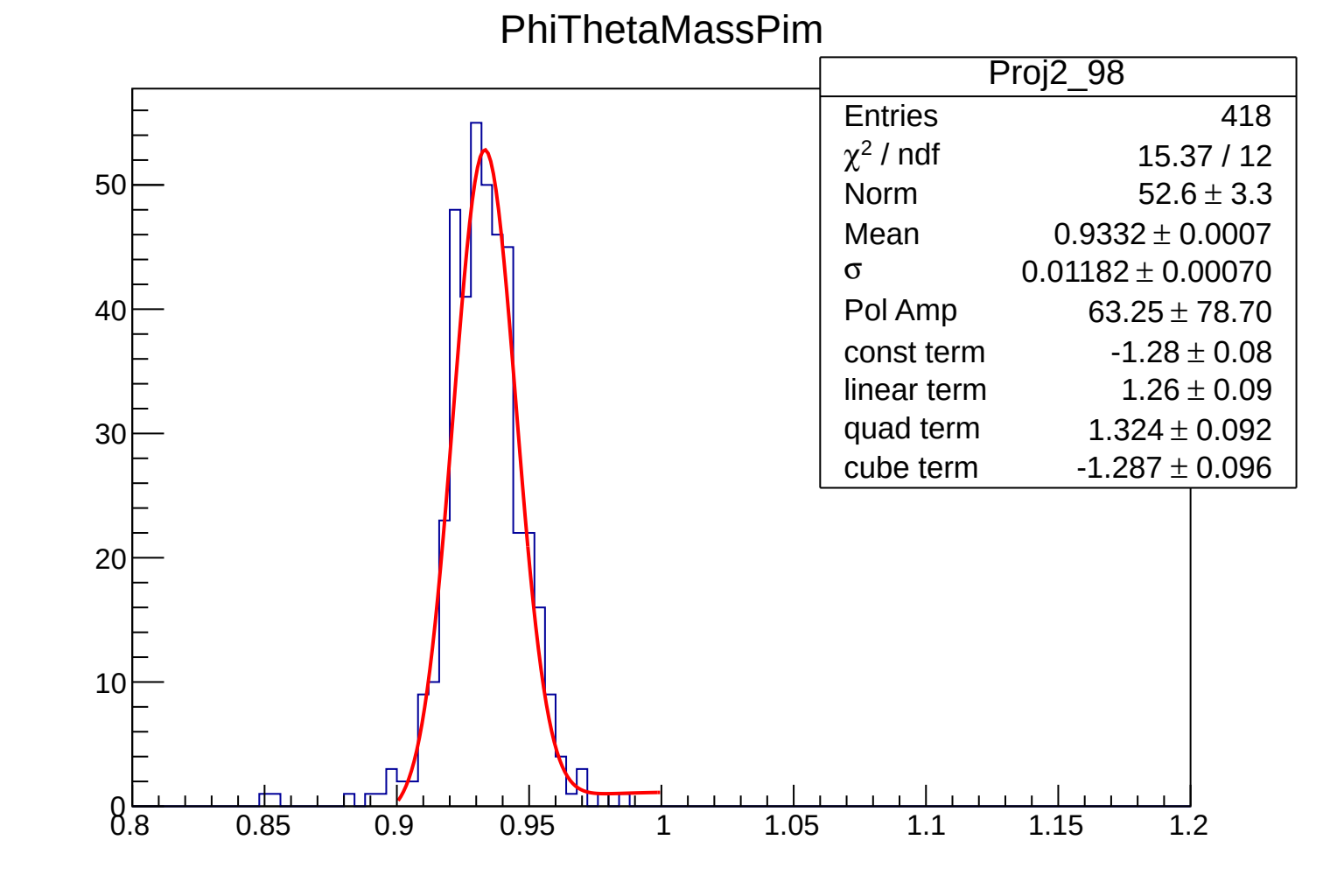

PhiThetaMassPim
Proj2_93
Entries 442
χ² / ndf 18.56 / 15
Norm 47.11 ± 3.68
Mean 0.9354 ± 0.0008
σ 0.01205 ± 0.00093
Pol Amp 366.5 ± 0.7
const term -1.538 ± 0.278
linear term 1.692 ± 0.287
quad term 1.621 ± 0.283
cube term -1.776 ± 0.293
0
10
20
30
40
50
60
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

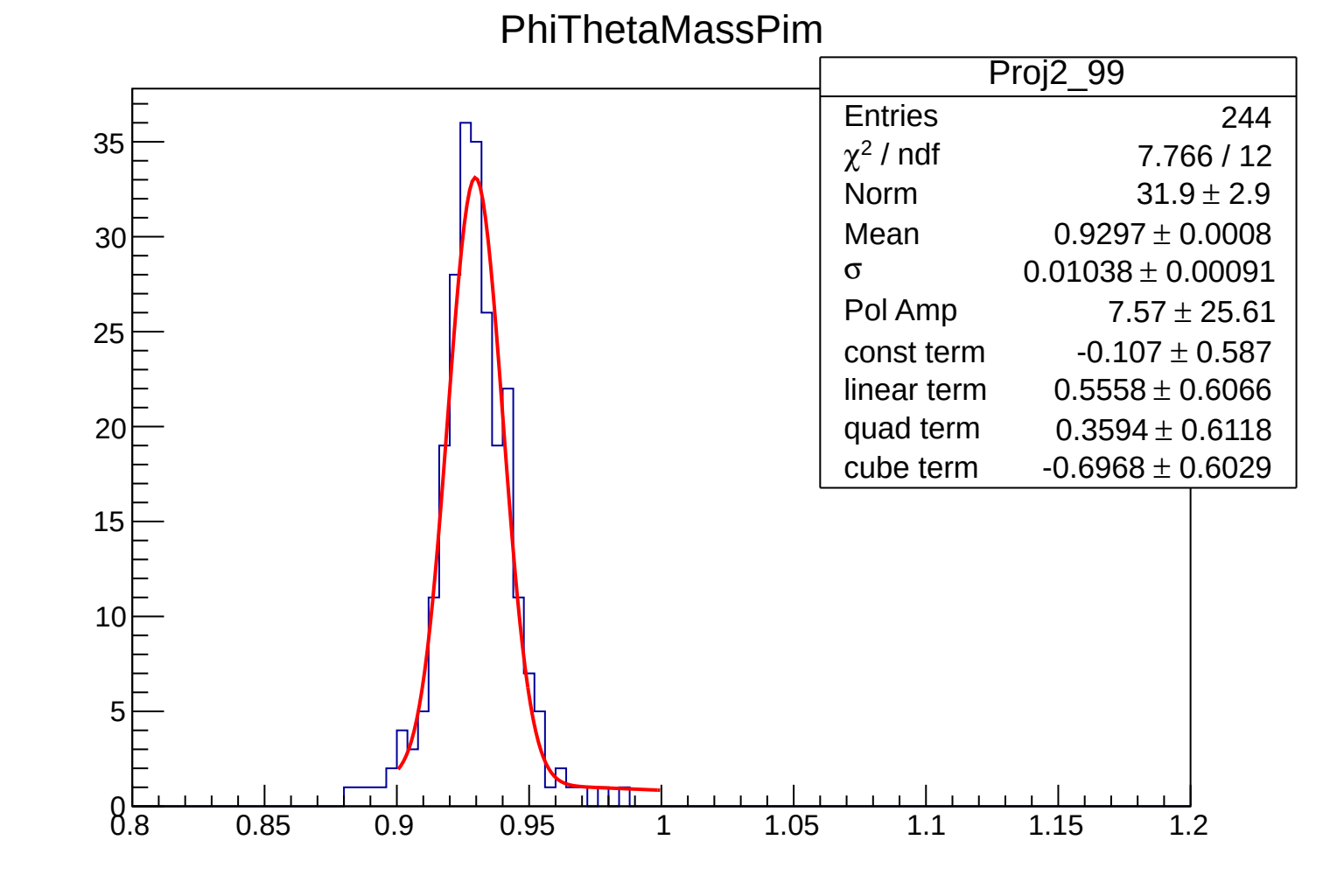

PhiThetaMassPim
Proj2_94
Entries 467
χ² / ndf 16.69 / 15
Norm 60.88 ± 4.18
Mean 0.9346 ± 0.0006
σ 0.01024 ± 0.00061
Pol Amp 466.4 ± 276.1
const term -1.08 ± 0.01
linear term 1.175 ± 0.010
quad term 1.156 ± 0.011
cube term -1.252 ± 0.010
70
60
50
40
30
20
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

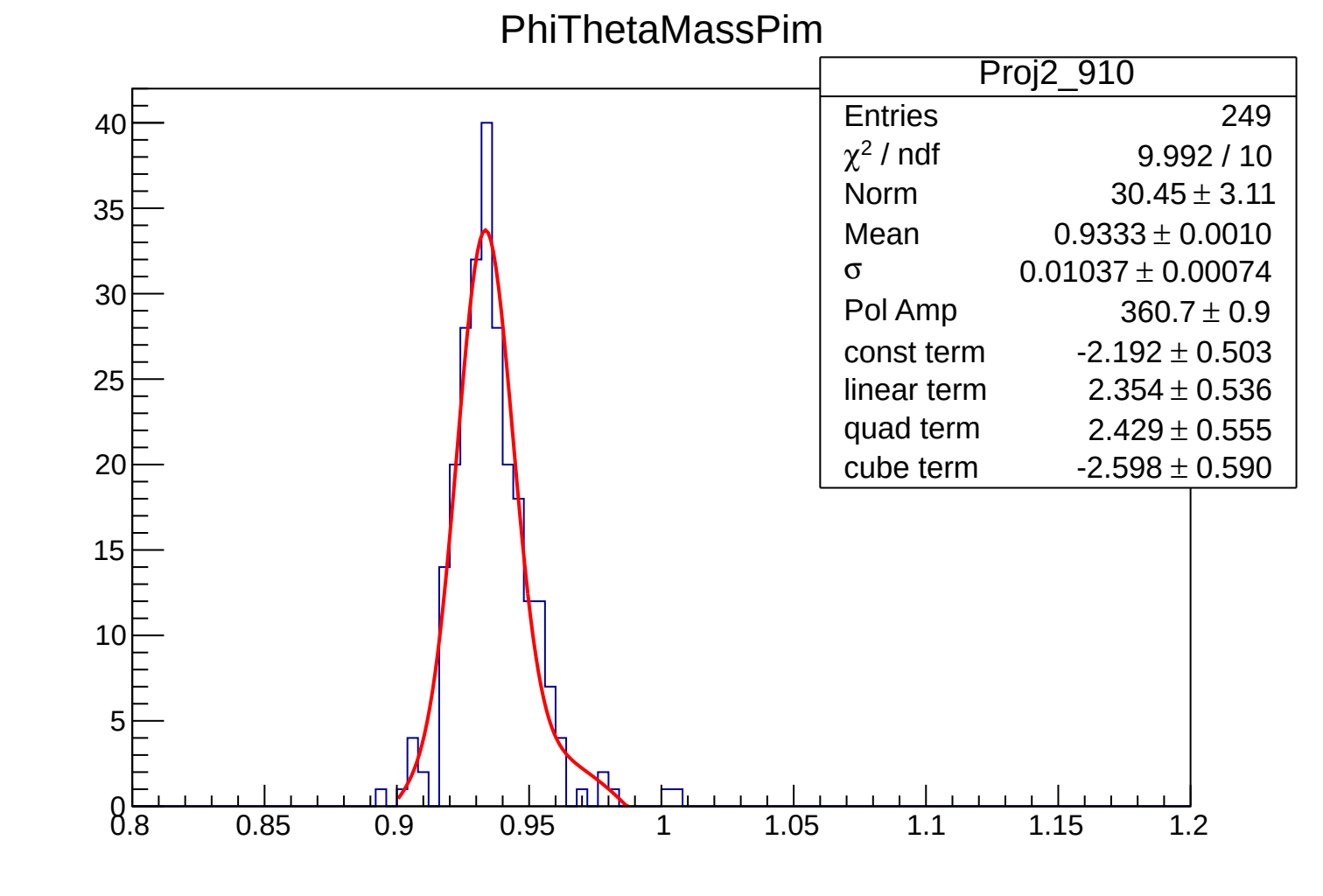

PhiThetaMassPim
Proj2_95
Entries 262
χ2 / ndf 14.28 / 14
Norm 31.9 ± 2.9
Mean 0.9317 ± 0.0001
σ 0.01006 ± 0.00061
Pol Amp 365.5 ± 0.7
const term -1.316 ± 0.351
linear term 1.429 ± 0.373
quad term 1.415 ± 0.373
cube term -1.53 ± 0.40
0 5 10 15 20 25 30 35 40
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2


PhiThetaMassPim
Proj2_96
Entries 330
χ² / ndf 31.57 / 11
Norm 39.98 ± 2.85
Mean 0.9354 ± 0.0009
σ 0.01152 ± 0.00075
Pol Amp 1.004 ± 56.696
const term -8.031 ± 5.573
linear term -2.237 ± 5.821
quad term 3.435 ± 6.195
cube term 8.958 ± 6.663
50
40
30
20
10
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_97
Entries 496
χ² / ndf 13.96 / 12
Norm 63.36 ± 4.25
Mean 0.9355 ± 0.0006
σ 0.01053 ± 0.00059
Pol Amp 363.2 ± 0.7
const term -1.627 ± 0.360
linear term 1.743 ± 0.374
quad term 1.749 ± 0.381
cube term -1.863 ± 0.397
0
10
20
30
40
50
60
70
80
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_98
Entries 418
χ² / ndf 15.37 / 12
Norm 52.6 ± 3.3
Mean 0.9332 ± 0.0007
σ 0.01182 ± 0.00070
Pol Amp 63.25 ± 78.70
const term -1.28 ± 0.08
linear term 1.26 ± 0.09
quad term 1.324 ± 0.092
cube term -1.287 ± 0.096
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_99
Entries 244
χ² / ndf 7.766 / 12
Norm 31.9 ± 2.9
Mean 0.9297 ± 0.0008
σ 0.01038 ± 0.00091
Pol Amp 7.57 ± 25.61
const term -0.107 ± 0.587
linear term 0.5558 ± 0.6066
quad term 0.3594 ± 0.6118
cube term -0.6968 ± 0.6029
0
5
10
15
20
25
30
35
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_910
Entries 249
χ² / ndf 9.992 / 10
Norm 30.45 ± 3.11
Mean 0.9333 ± 0.0010
σ 0.01037 ± 0.00074
Pol Amp 360.7 ± 0.9
const term -2.192 ± 0.503
linear term 2.354 ± 0.536
quad term 2.429 ± 0.555
cube term -2.598 ± 0.590
0
5
10
15
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25
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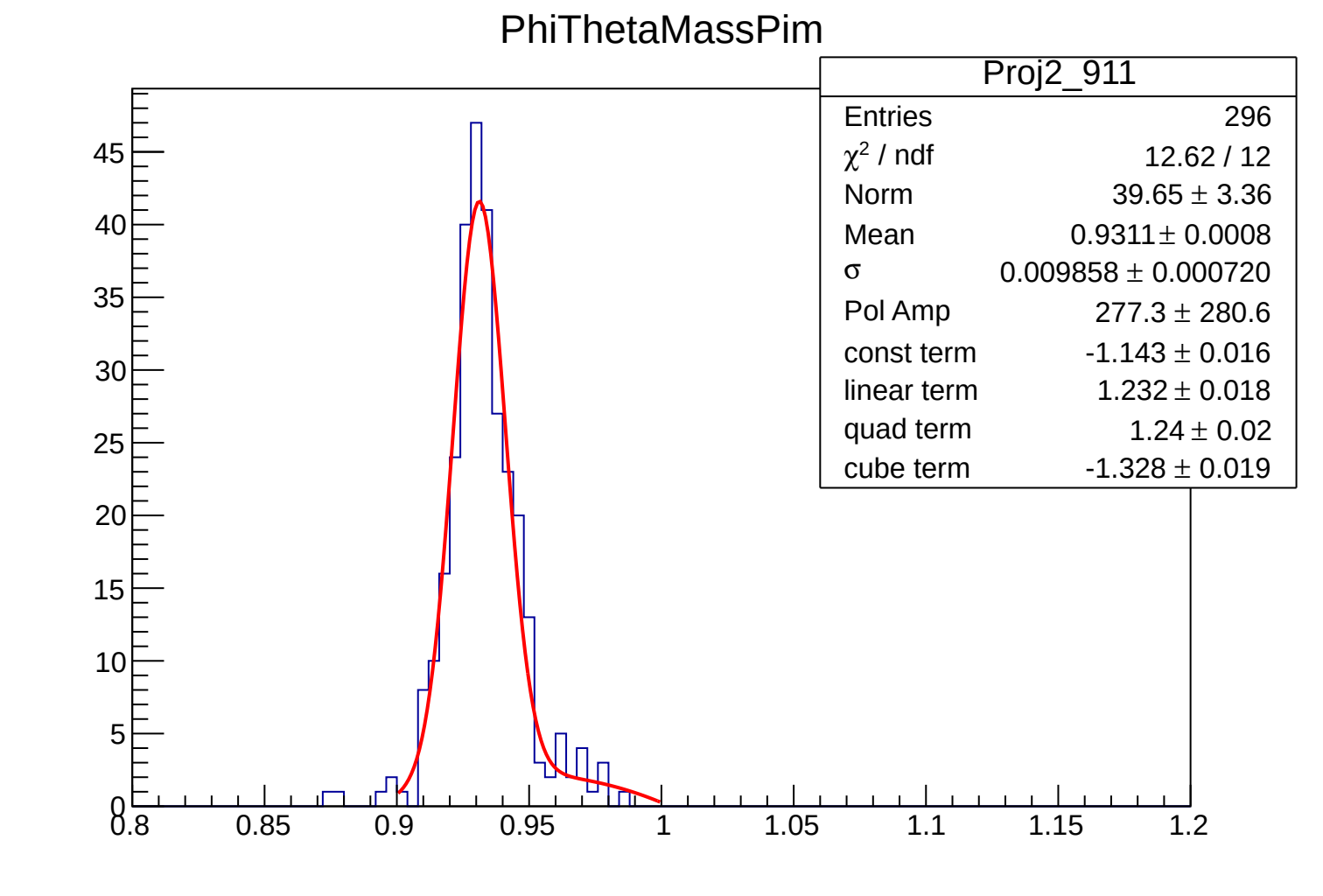
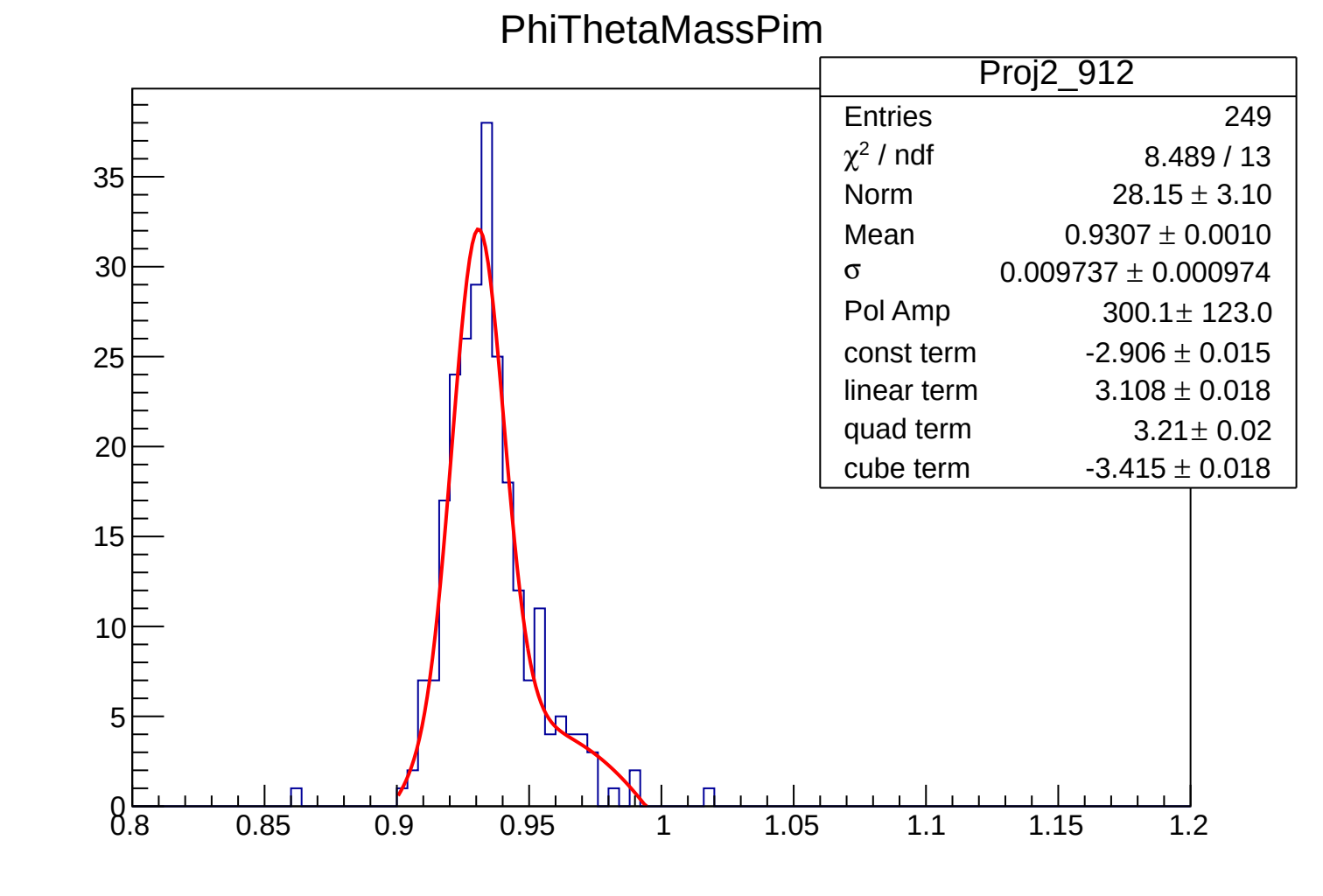
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_911
Entries 296
χ² / ndf 12.62 / 12
Norm 39.65 ± 3.36
Mean 0.9311 ± 0.0008
σ 0.009858 ± 0.000720
Pol Amp 277.3 ± 280.6
const term -1.143 ± 0.016
linear term 1.232 ± 0.018
quad term 1.24 ± 0.02
cube term -1.328 ± 0.019
0
5
10
15
20
25
30
35
40
45
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_912
Entries 249
χ² / ndf 8.489 / 13
Norm 28.15 ± 3.10
Mean 0.9307 ± 0.0010
σ 0.009737 ± 0.000974
Pol Amp 300.1± 123.0
const term -2.906 ± 0.015
linear term 3.108 ± 0.018
quad term 3.21± 0.02
cube term -3.415 ± 0.018
0
5
10
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0.8
0.85
0.9
0.95
1
1.05
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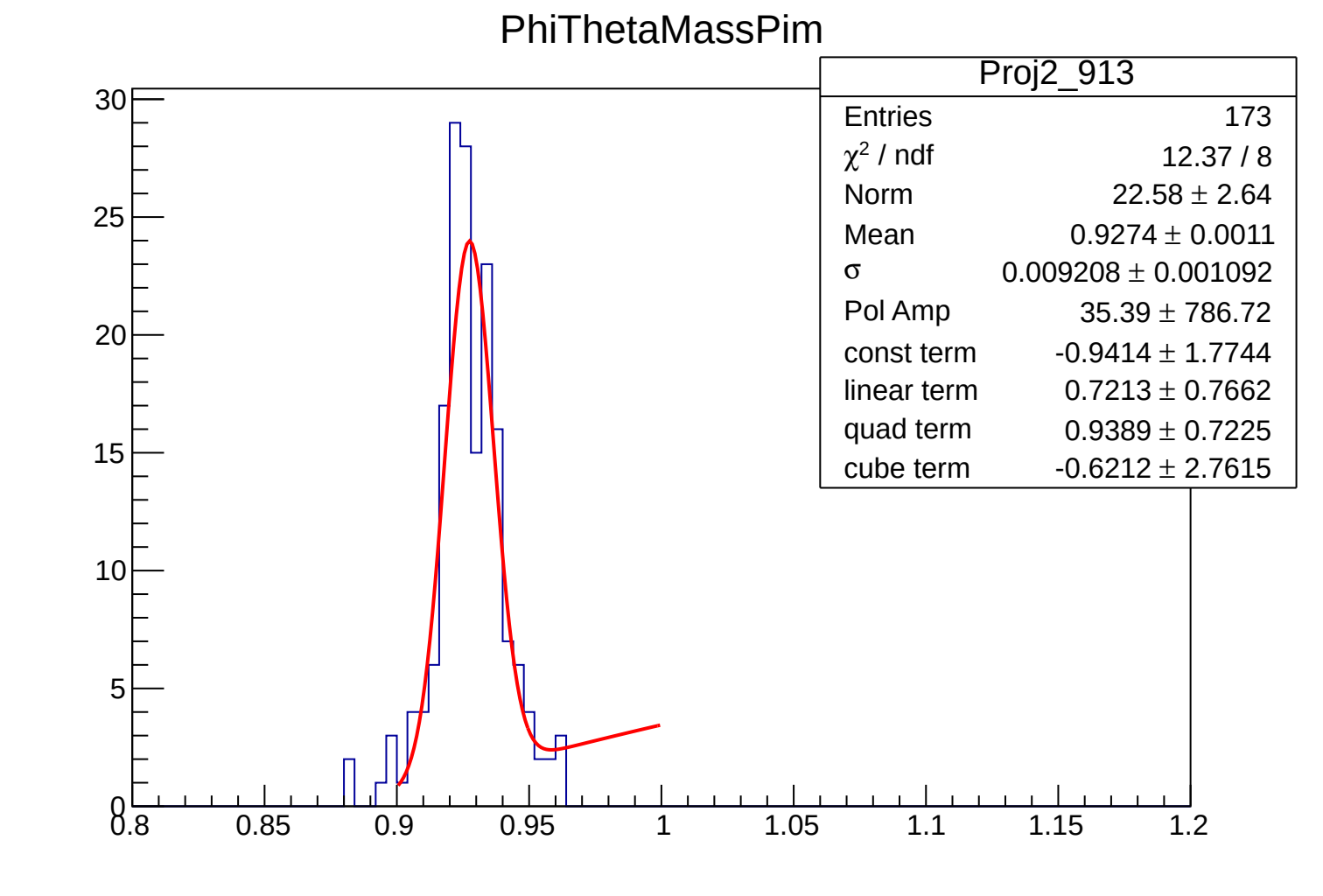
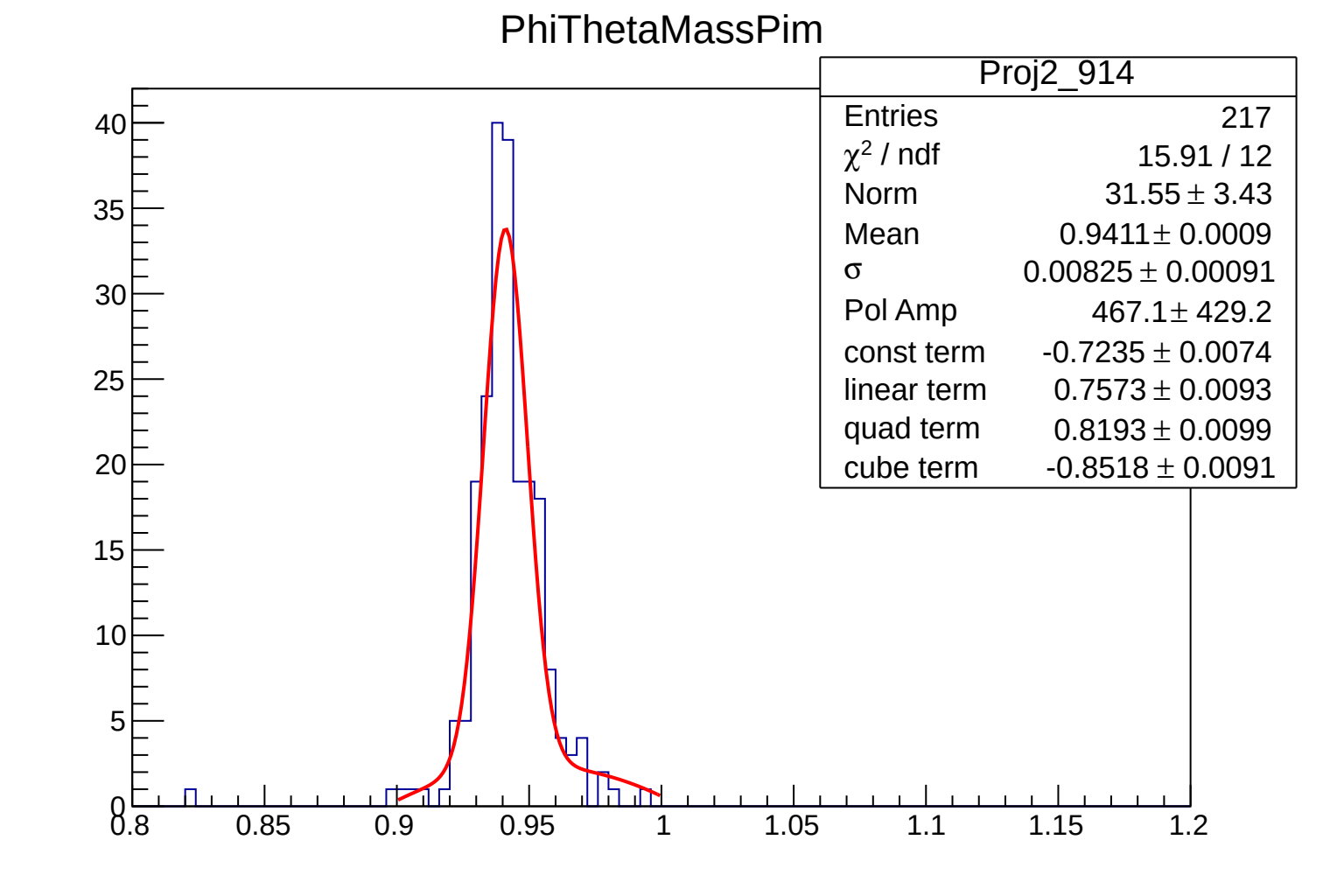
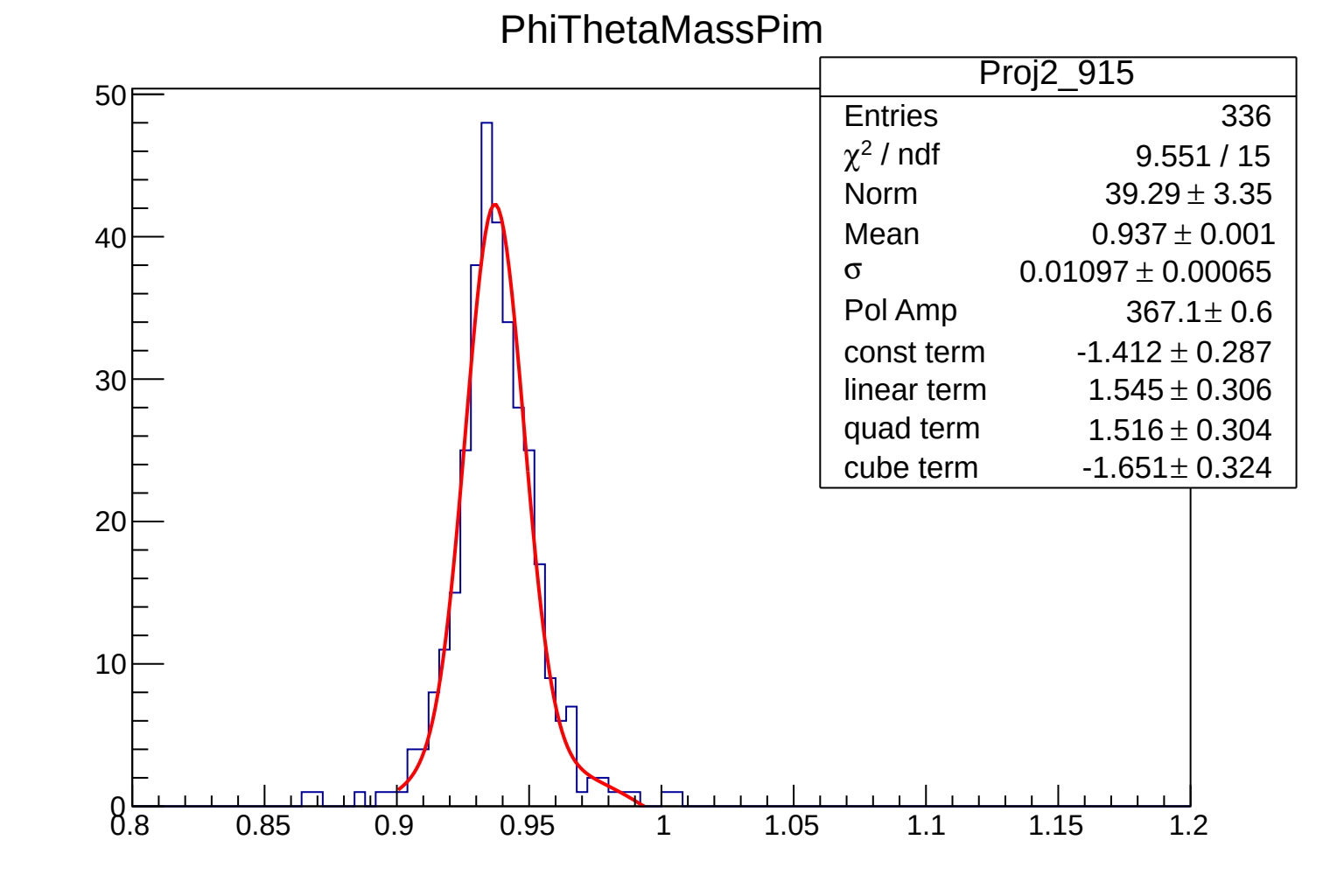

PhiThetaMassPim
Proj2_913
Entries 173
χ² / ndf 12.37 / 8
Norm 22.58 ± 2.64
Mean 0.9274 ± 0.0011
σ 0.009208 ± 0.001092
Pol Amp 35.39 ± 786.72
const term -0.9414 ± 1.7744
linear term 0.7213 ± 0.7662
quad term 0.9389 ± 0.7225
cube term -0.6212 ± 2.7615
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_914
Entries 217
χ² / ndf 15.91 / 12
Norm 31.55 ± 3.43
Mean 0.9411 ± 0.0009
σ 0.00825 ± 0.00091
Pol Amp 467.1 ± 429.2
const term -0.7235 ± 0.0074
linear term 0.7573 ± 0.0093
quad term 0.8193 ± 0.0099
cube term -0.8518 ± 0.0091
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_915
Entries 336
χ² / ndf 9.551 / 15
Norm 39.29 ± 3.35
Mean 0.937 ± 0.001
σ 0.01097 ± 0.00065
Pol Amp 367.1 ± 0.6
const term -1.412 ± 0.287
linear term 1.545 ± 0.306
quad term 1.516 ± 0.304
cube term -1.651 ± 0.324
50
40
30
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10
0
0.8
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0.9
0.95
1
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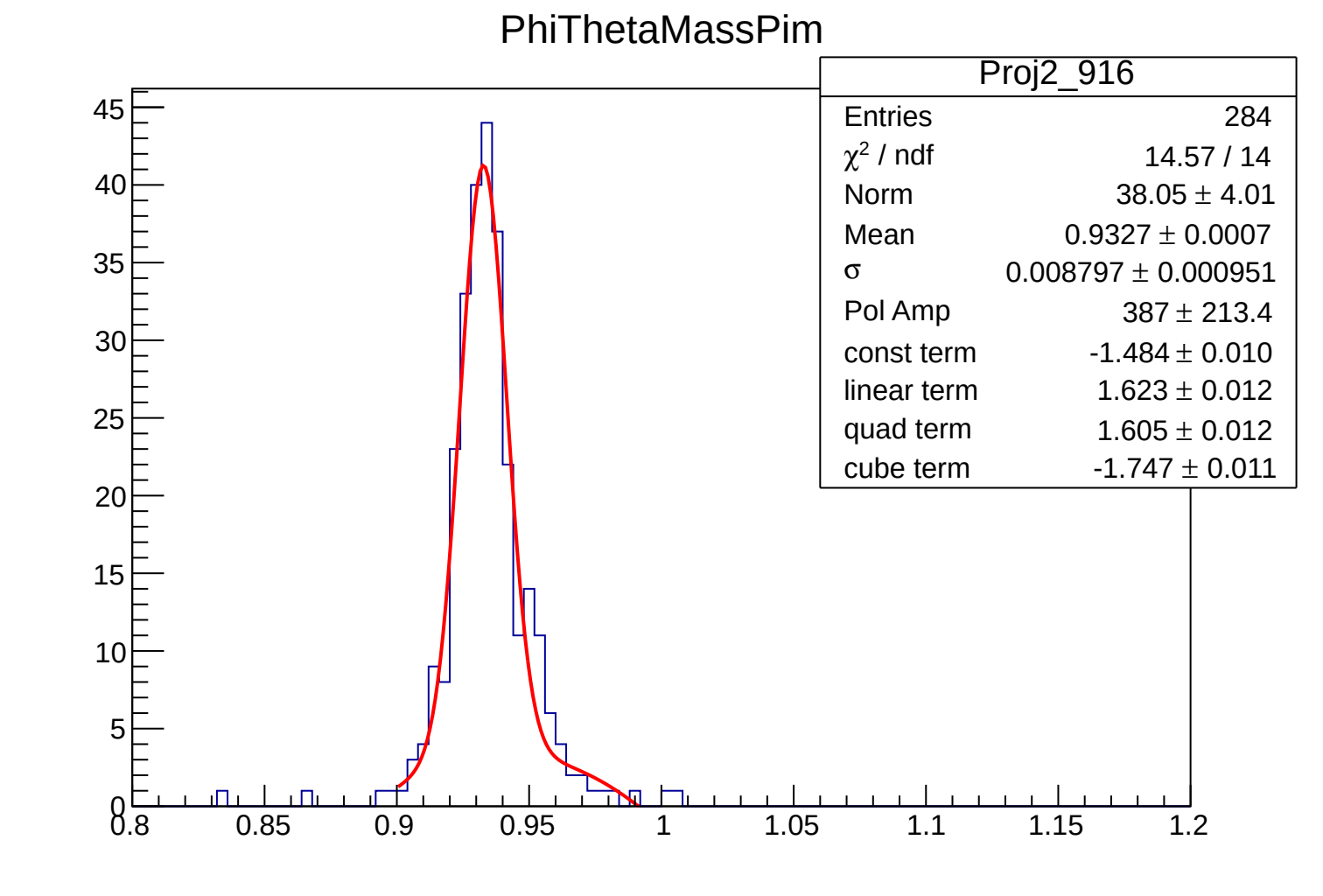
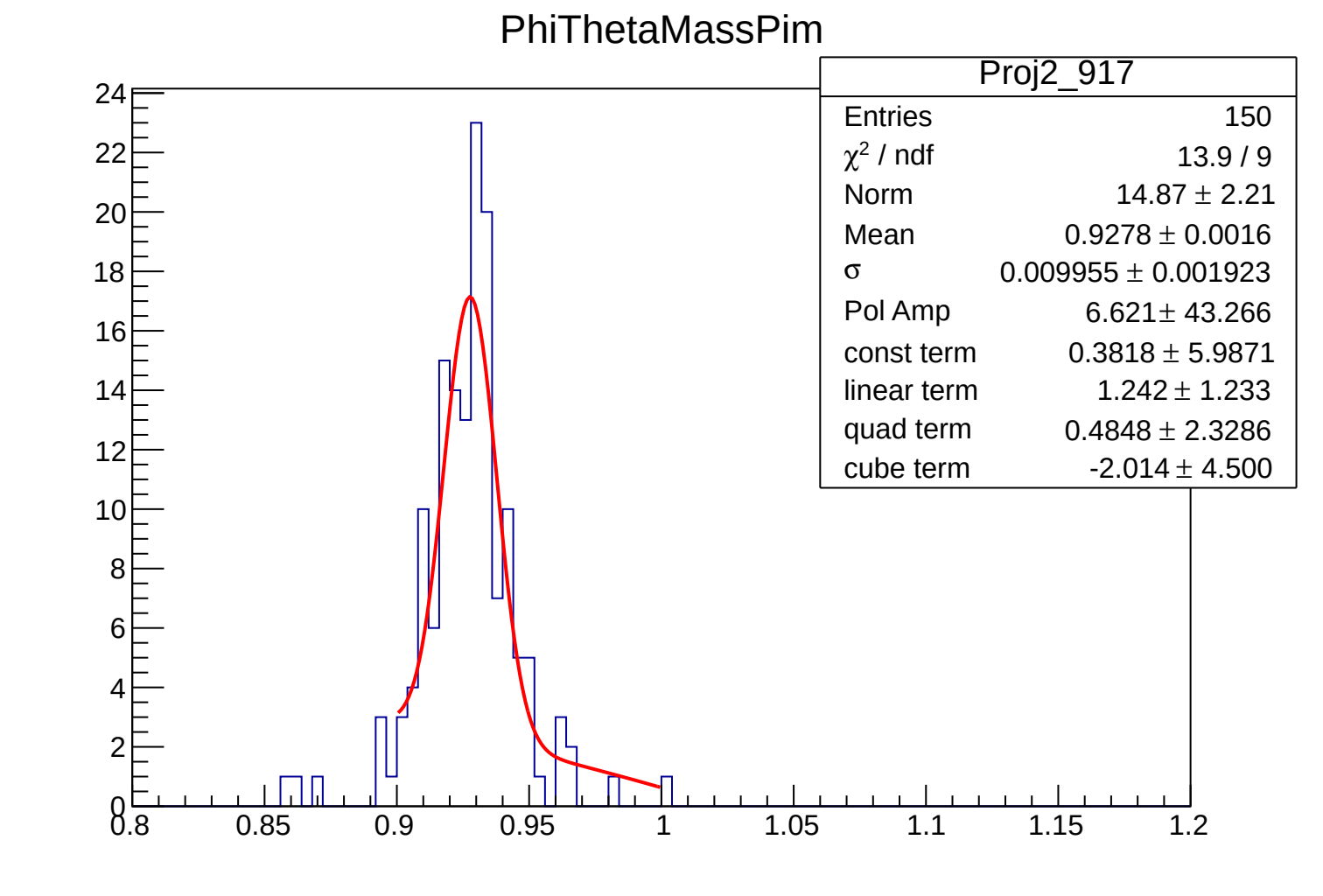
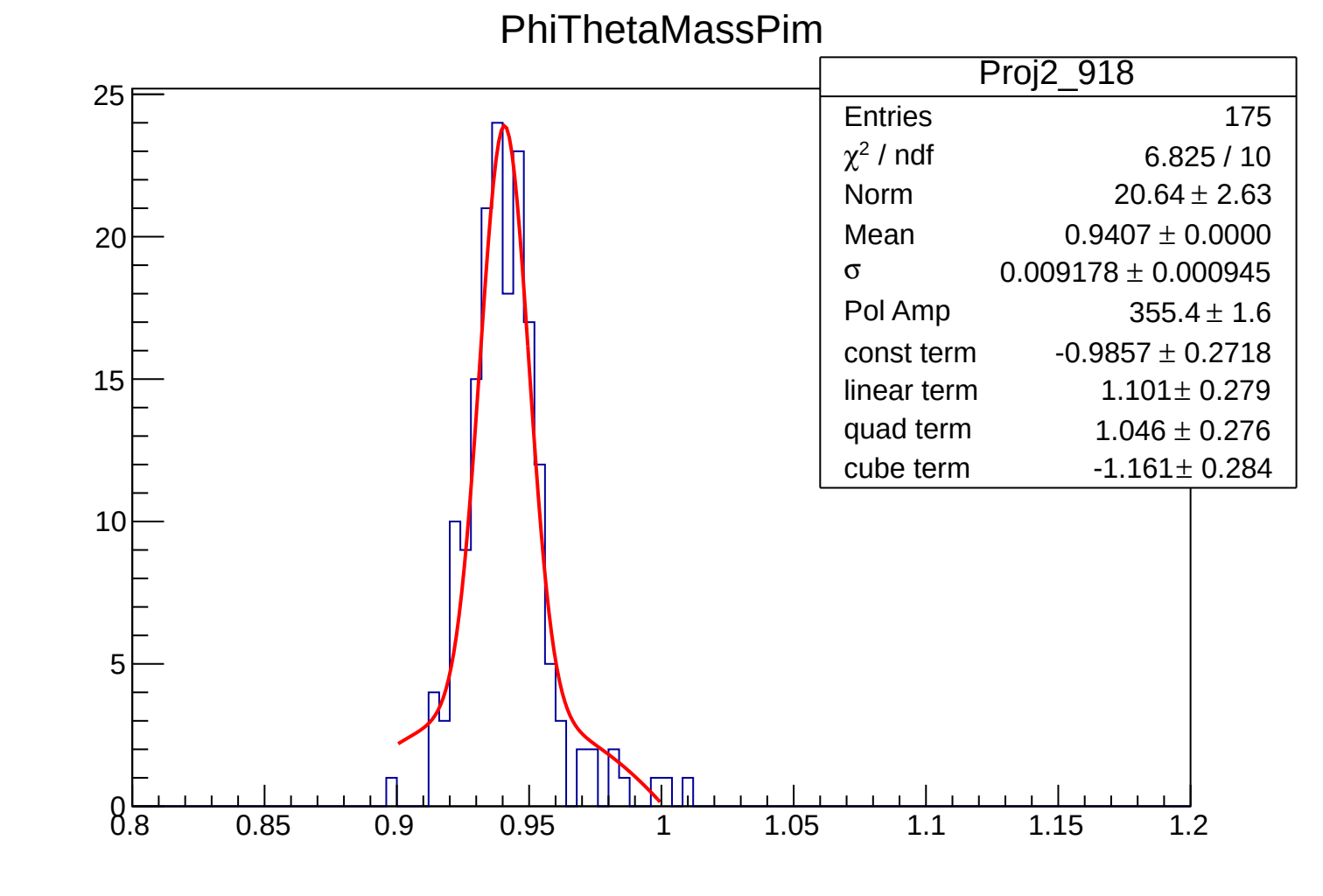
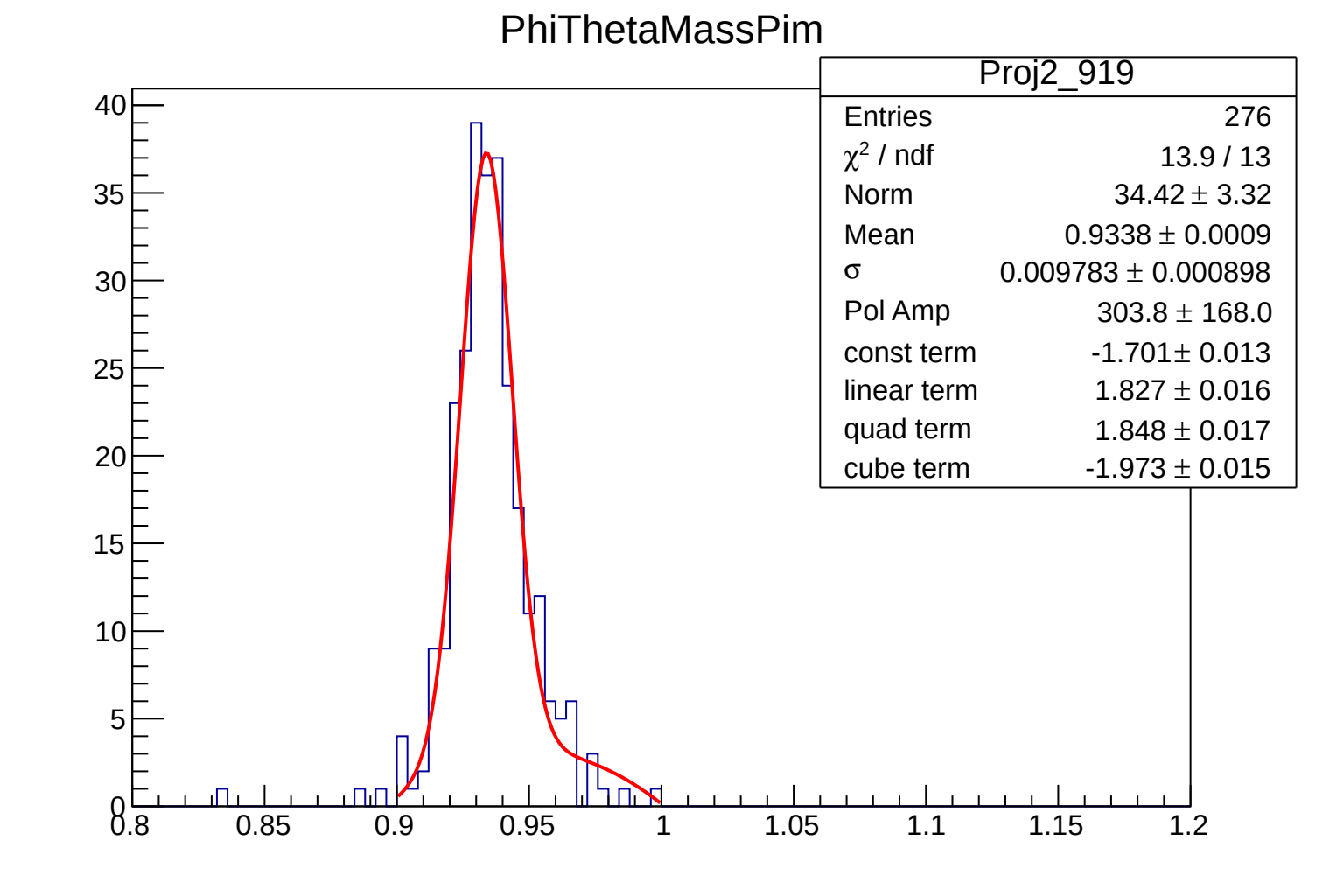
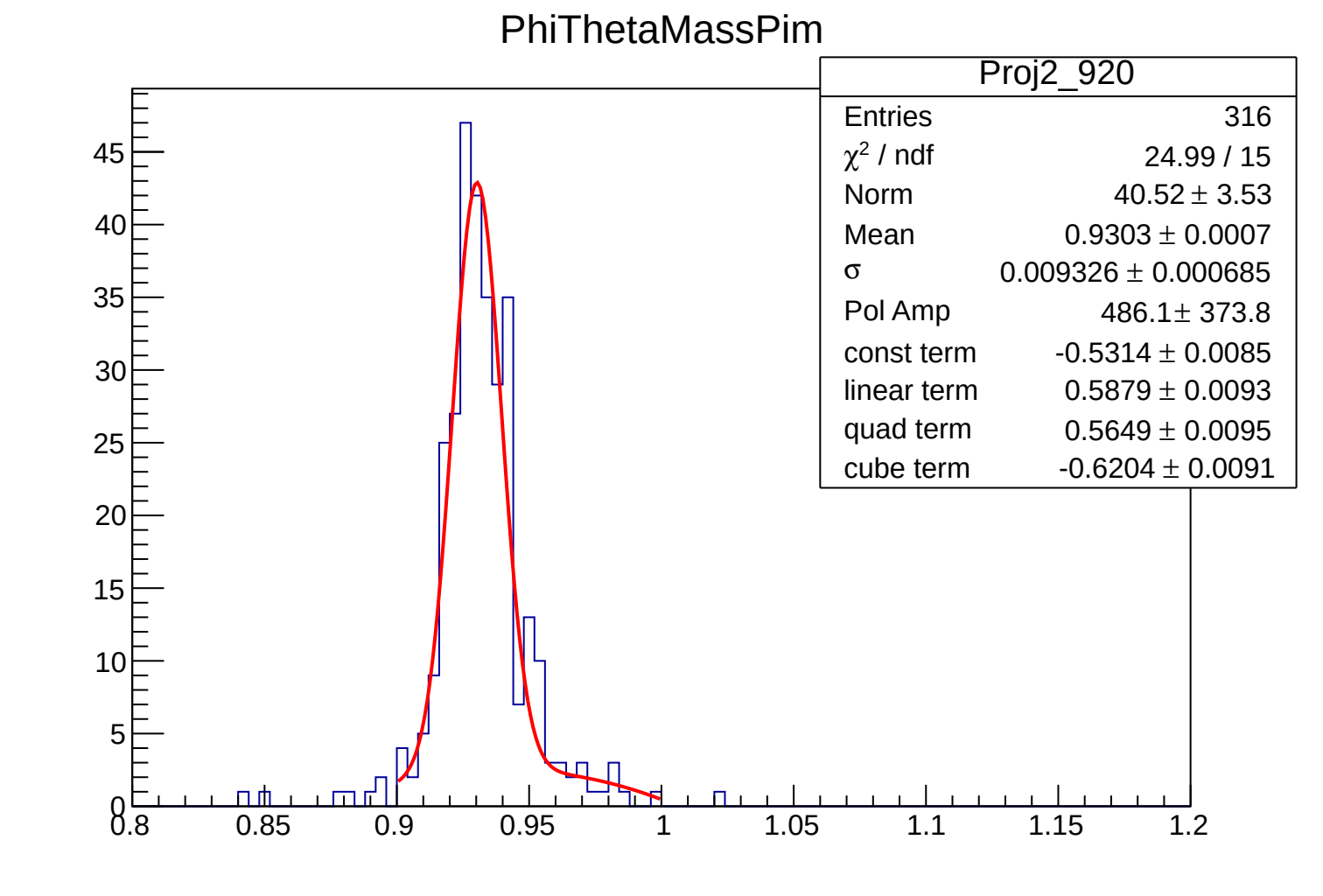
1.1
1.15
1.2

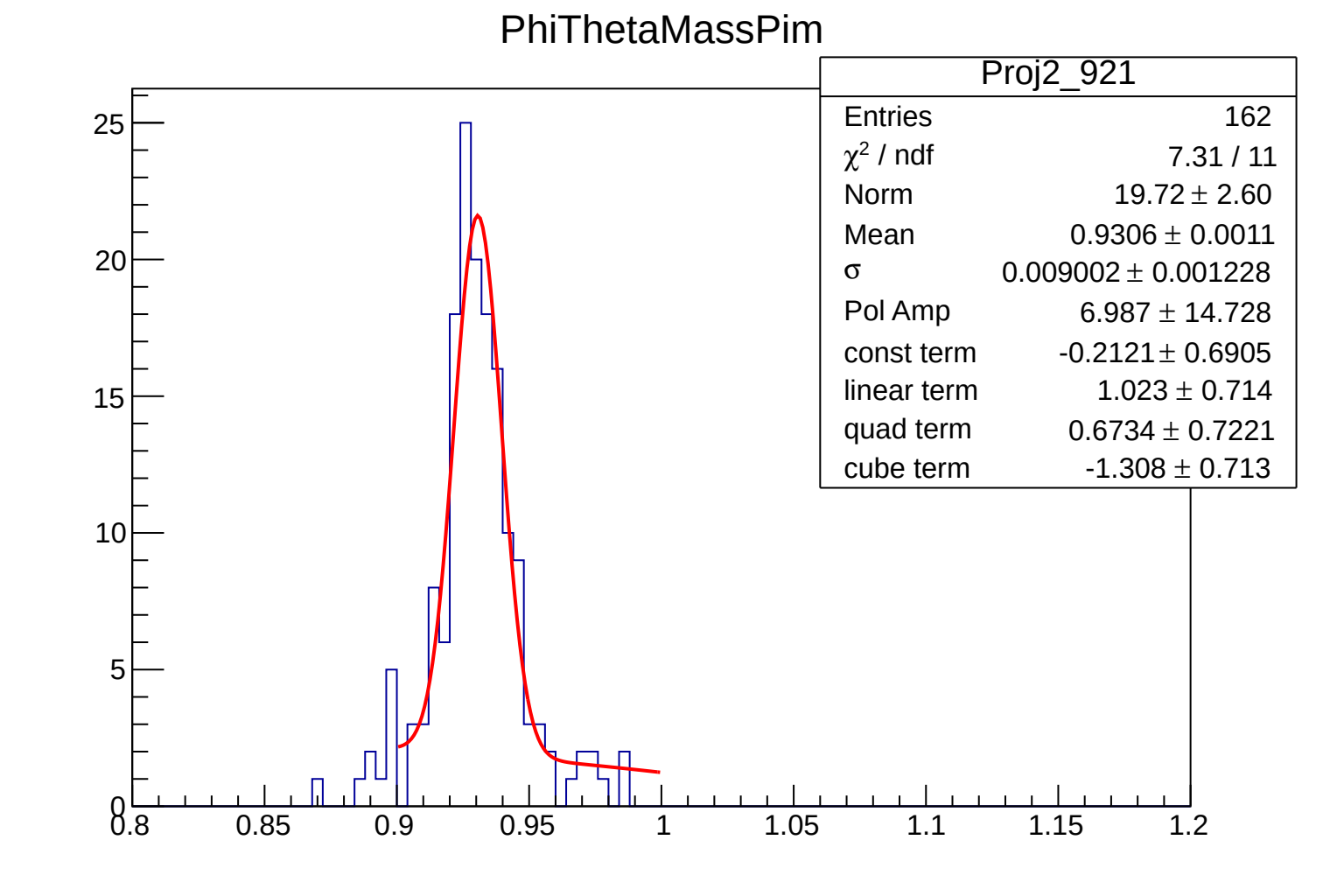

PhiThetaMassPim
Proj2_916
Entries 284
χ² / ndf 14.57 / 14
Norm 38.05 ± 4.01
Mean 0.9327 ± 0.0007
σ 0.008797 ± 0.000951
Pol Amp 387 ± 213.4
const term -1.484 ± 0.010
linear term 1.623 ± 0.012
quad term 1.605 ± 0.012
cube term -1.747 ± 0.011
0 5 10 15 20 25 30 35 40 45
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

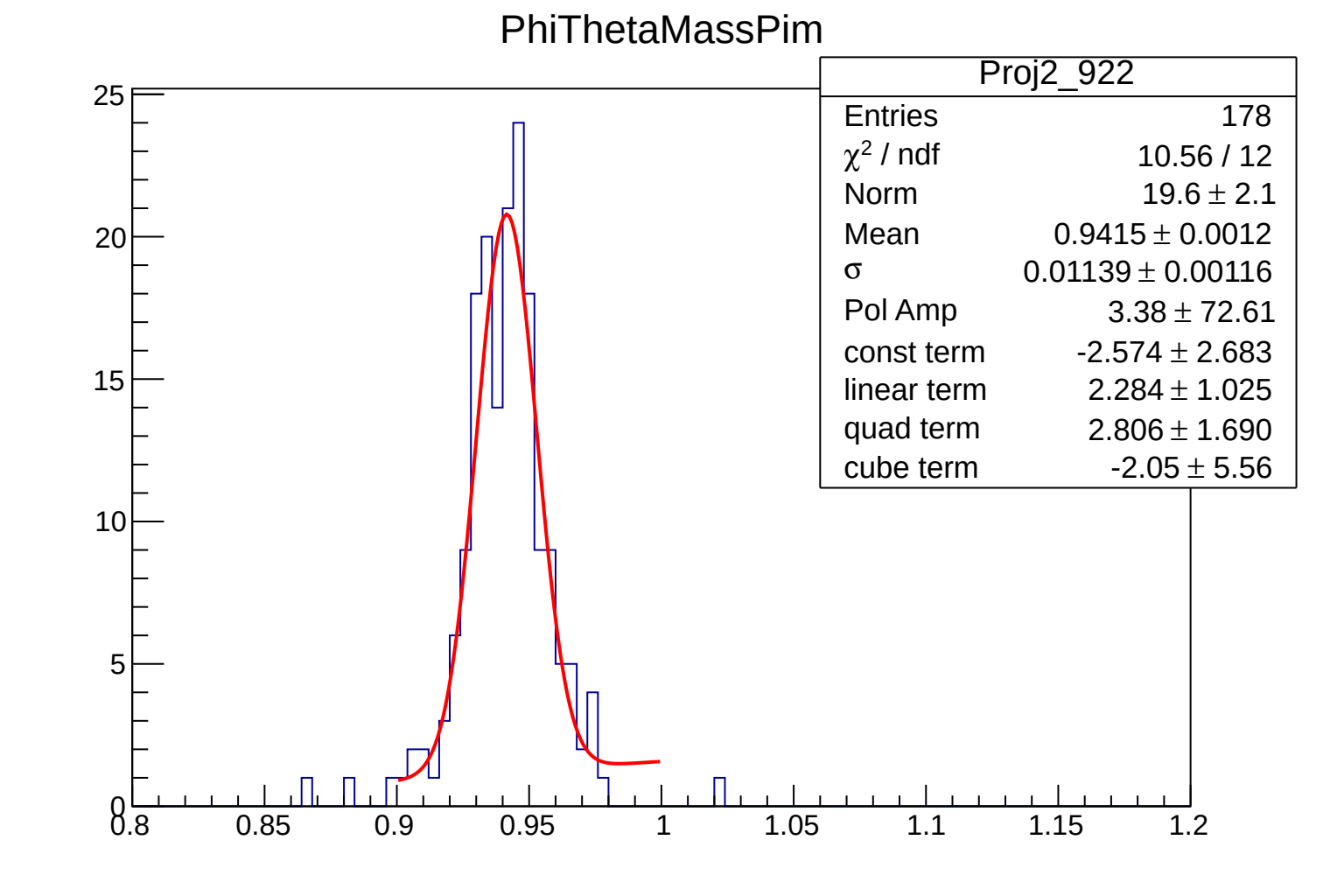

PhiThetaMassPim
Proj2_917
Entries 150
χ² / ndf 13.9 / 9
Norm 14.87 ± 2.21
Mean 0.9278 ± 0.0016
σ 0.009955 ± 0.001923
Pol Amp 6.621 ± 43.266
const term 0.3818 ± 5.9871
linear term 1.242 ± 1.233
quad term 0.4848 ± 2.3286
cube term -2.014 ± 4.500
0 2 4 6 8 10 12 14 16 18 20 22 24
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

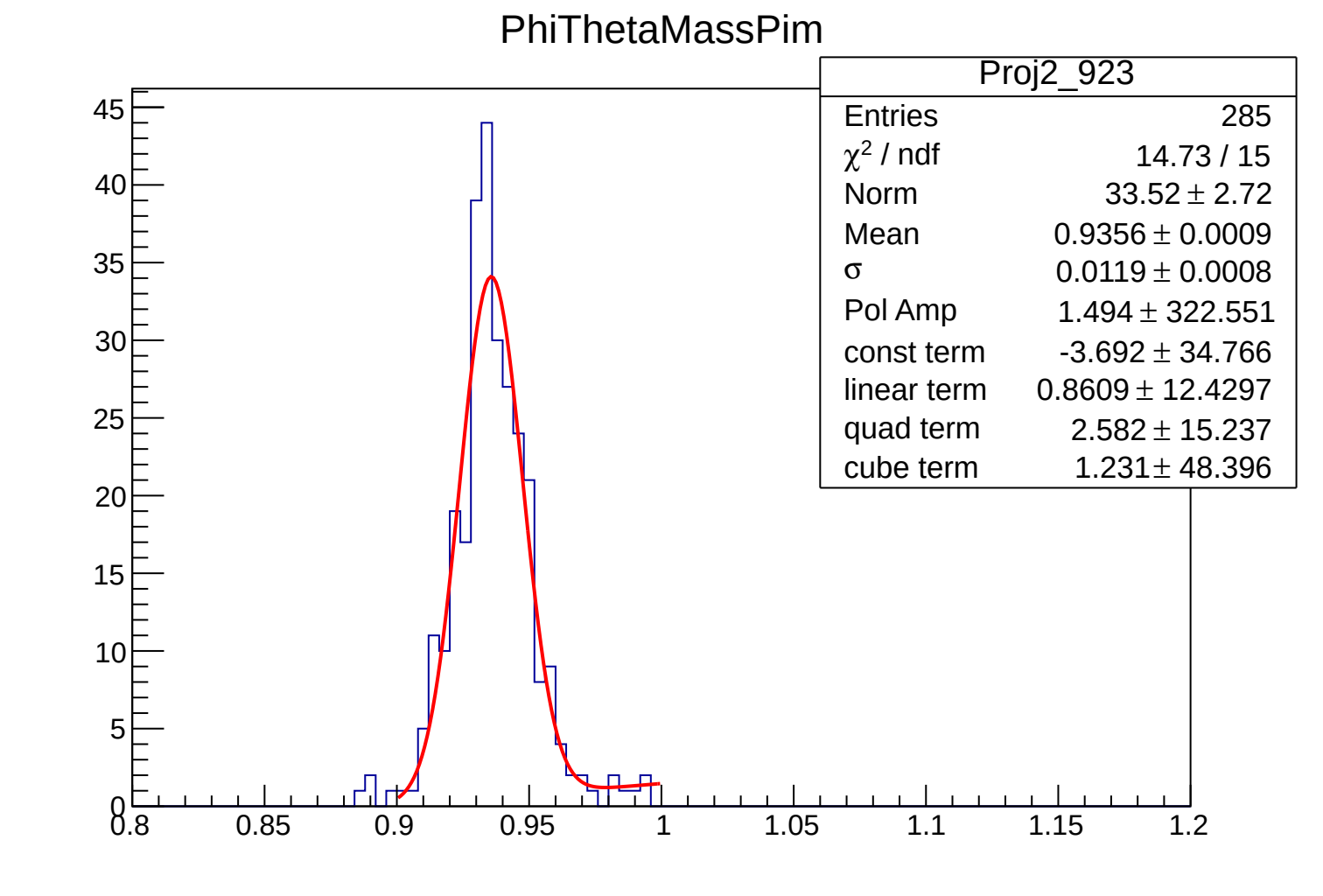

PhiThetaMassPim
Proj2_918
Entries 175
χ² / ndf 6.825 / 10
Norm 20.64 ± 2.63
Mean 0.9407 ± 0.0000
σ 0.009178 ± 0.000945
Pol Amp 355.4 ± 1.6
const term -0.9857 ± 0.2718
linear term 1.101± 0.279
quad term 1.046 ± 0.276
cube term -1.161± 0.284
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

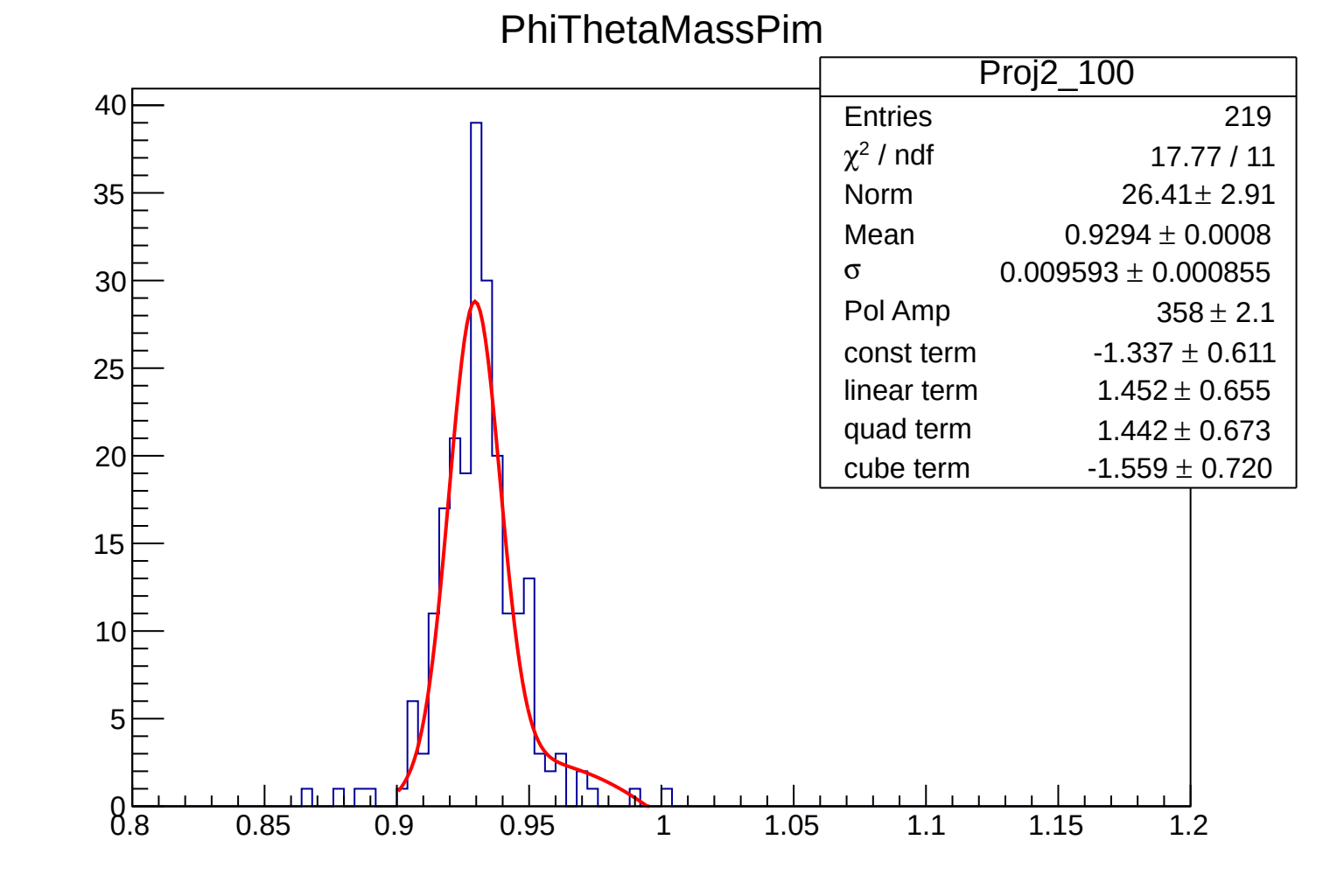

PhiThetaMassPim
Proj2_919
Entries 276
χ² / ndf 13.9 / 13
Norm 34.42 ± 3.32
Mean 0.9338 ± 0.0009
σ 0.009783 ± 0.000898
Pol Amp 303.8 ± 168.0
const term -1.701± 0.013
linear term 1.827 ± 0.016
quad term 1.848 ± 0.017
cube term -1.973 ± 0.015
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

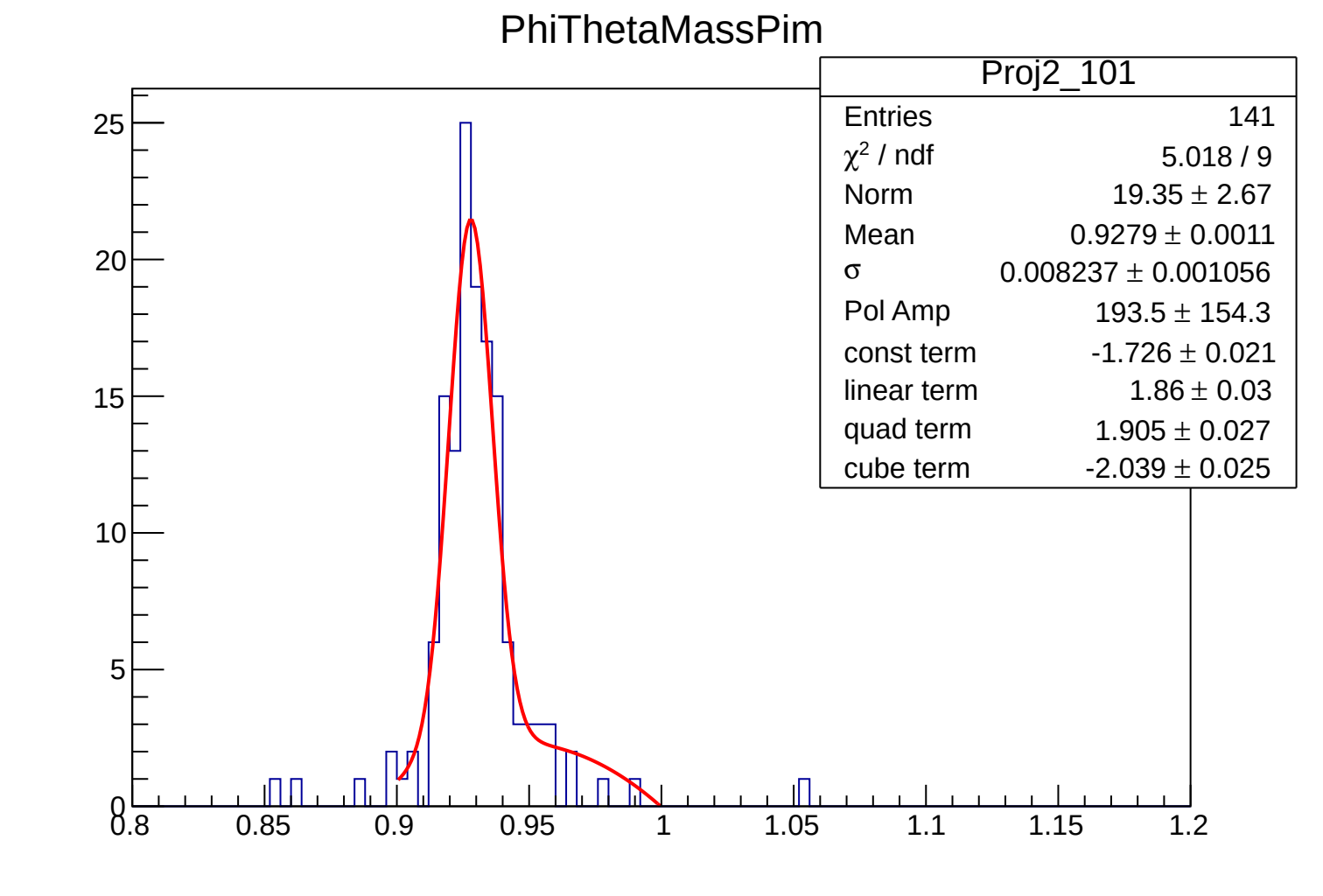

PhiThetaMassPim
Proj2_920
Entries 316
χ² / ndf 24.99 / 15
Norm 40.52 ± 3.53
Mean 0.9303 ± 0.0007
σ 0.009326 ± 0.000685
Pol Amp 486.1± 373.8
const term -0.5314 ± 0.0085
linear term 0.5879 ± 0.0093
quad term 0.5649 ± 0.0095
cube term -0.6204 ± 0.0091
0
5
10
15
20
25
30
35
40
45
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

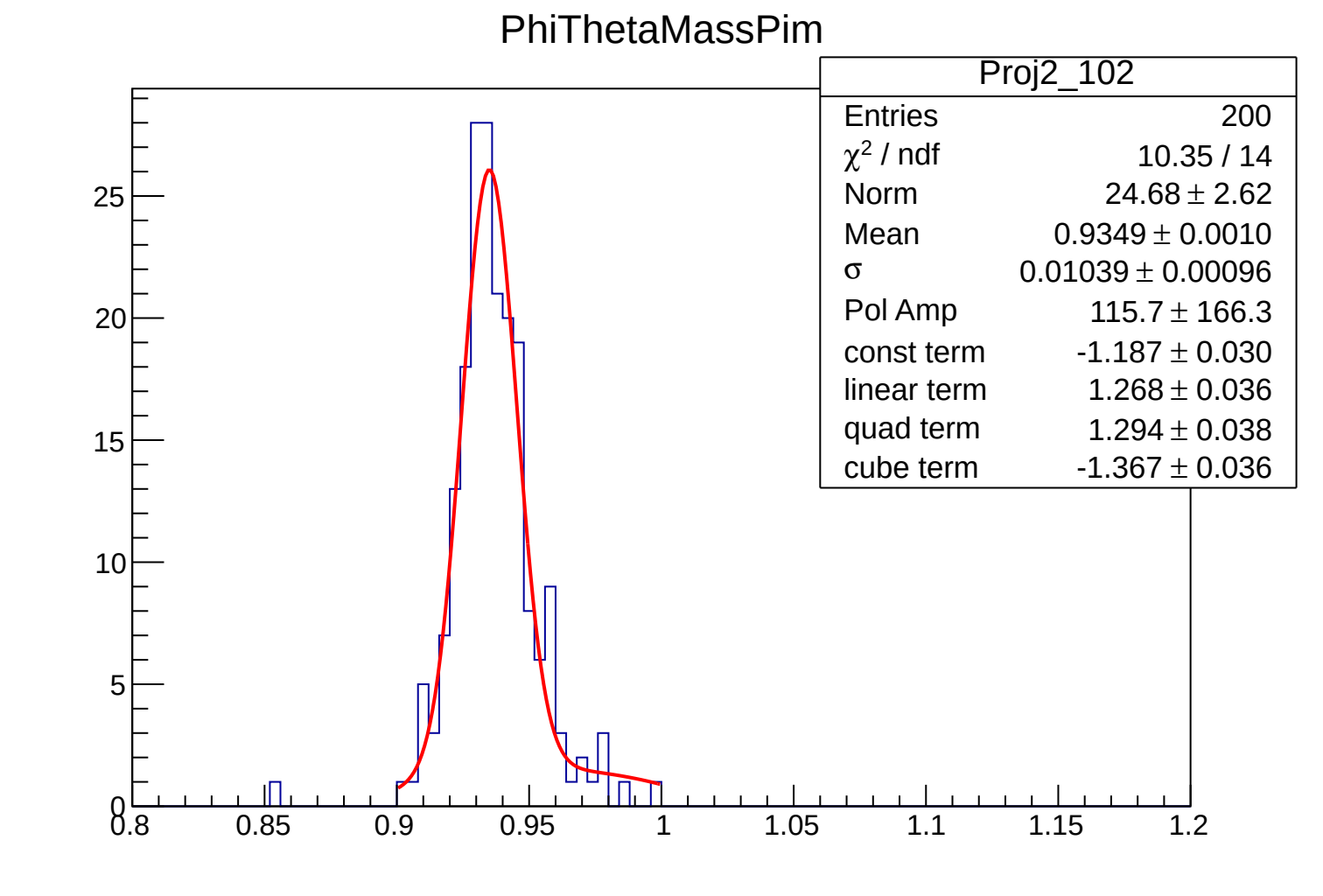

PhiThetaMassPim
Proj2_921
Entries 162
χ² / ndf 7.31 / 11
Norm 19.72 ± 2.60
Mean 0.9306 ± 0.0011
σ 0.009002 ± 0.001228
Pol Amp 6.987 ± 14.728
const term -0.2121 ± 0.6905
linear term 1.023 ± 0.714
quad term 0.6734 ± 0.7221
cube term -1.308 ± 0.713
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

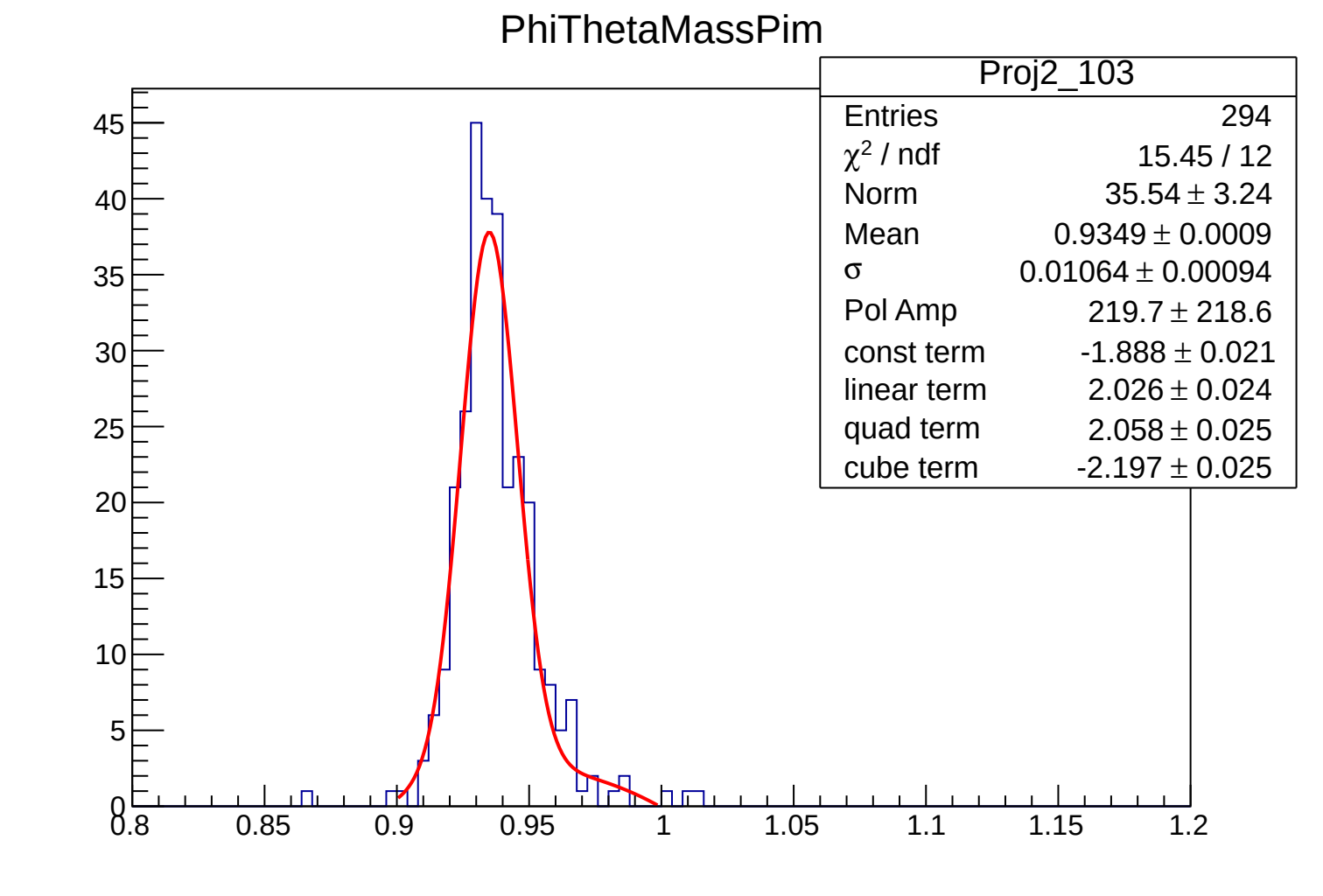

PhiThetaMassPim
Proj2_922
Entries 178
χ² / ndf 10.56 / 12
Norm 19.6 ± 2.1
Mean 0.9415 ± 0.0012
σ 0.01139 ± 0.00116
Pol Amp 3.38 ± 72.61
const term -2.574 ± 2.683
linear term 2.284 ± 1.025
quad term 2.806 ± 1.690
cube term -2.05 ± 5.56
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

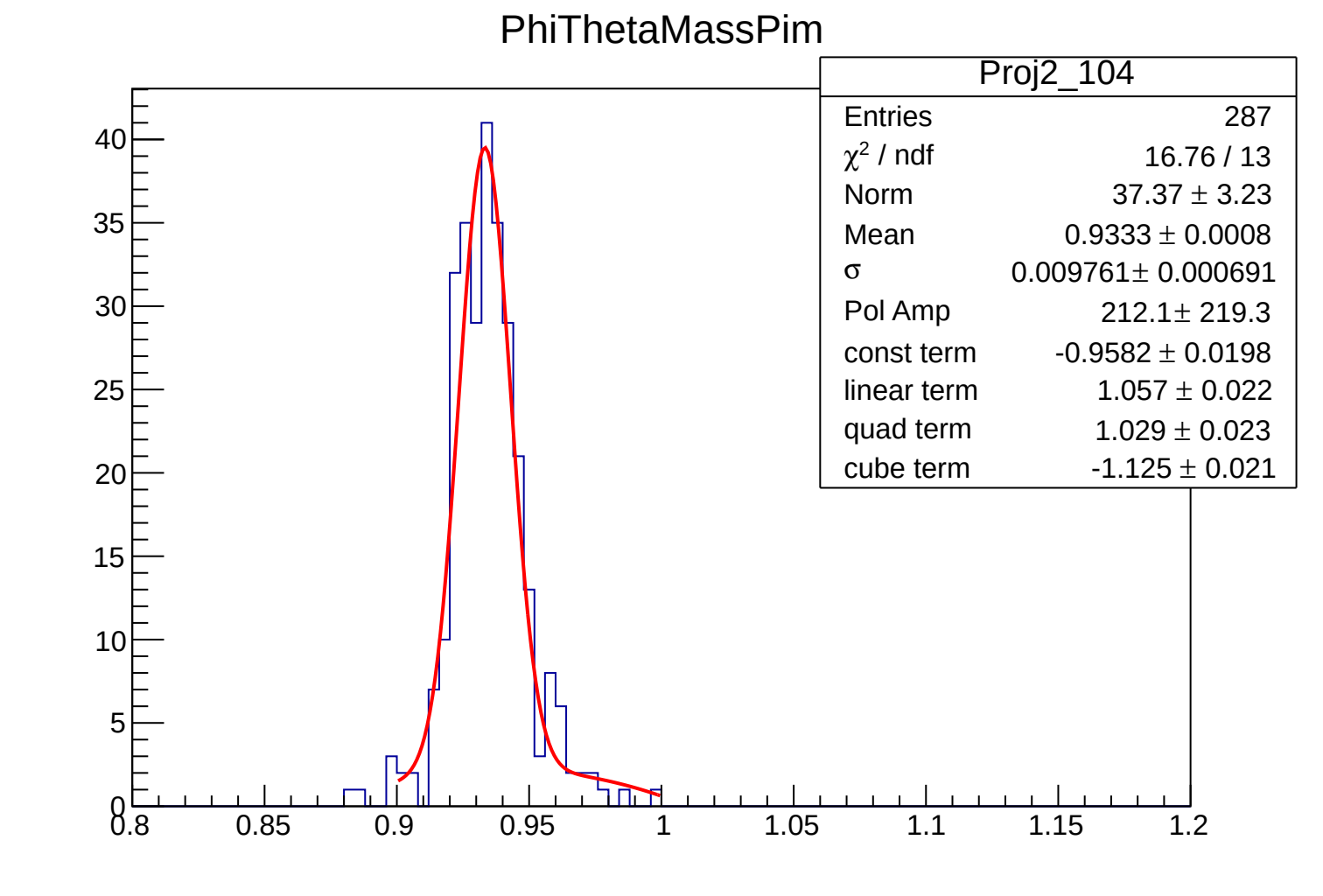

PhiThetaMassPim
Proj2_923
Entries 285
χ² / ndf 14.73 / 15
Norm 33.52 ± 2.72
Mean 0.9356 ± 0.0009
σ 0.0119 ± 0.0008
Pol Amp 1.494 ± 322.551
const term -3.692 ± 34.766
linear term 0.8609 ± 12.4297
quad term 2.582 ± 15.237
cube term 1.231 ± 48.396
0 5 10 15 20 25 30 35 40 45
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

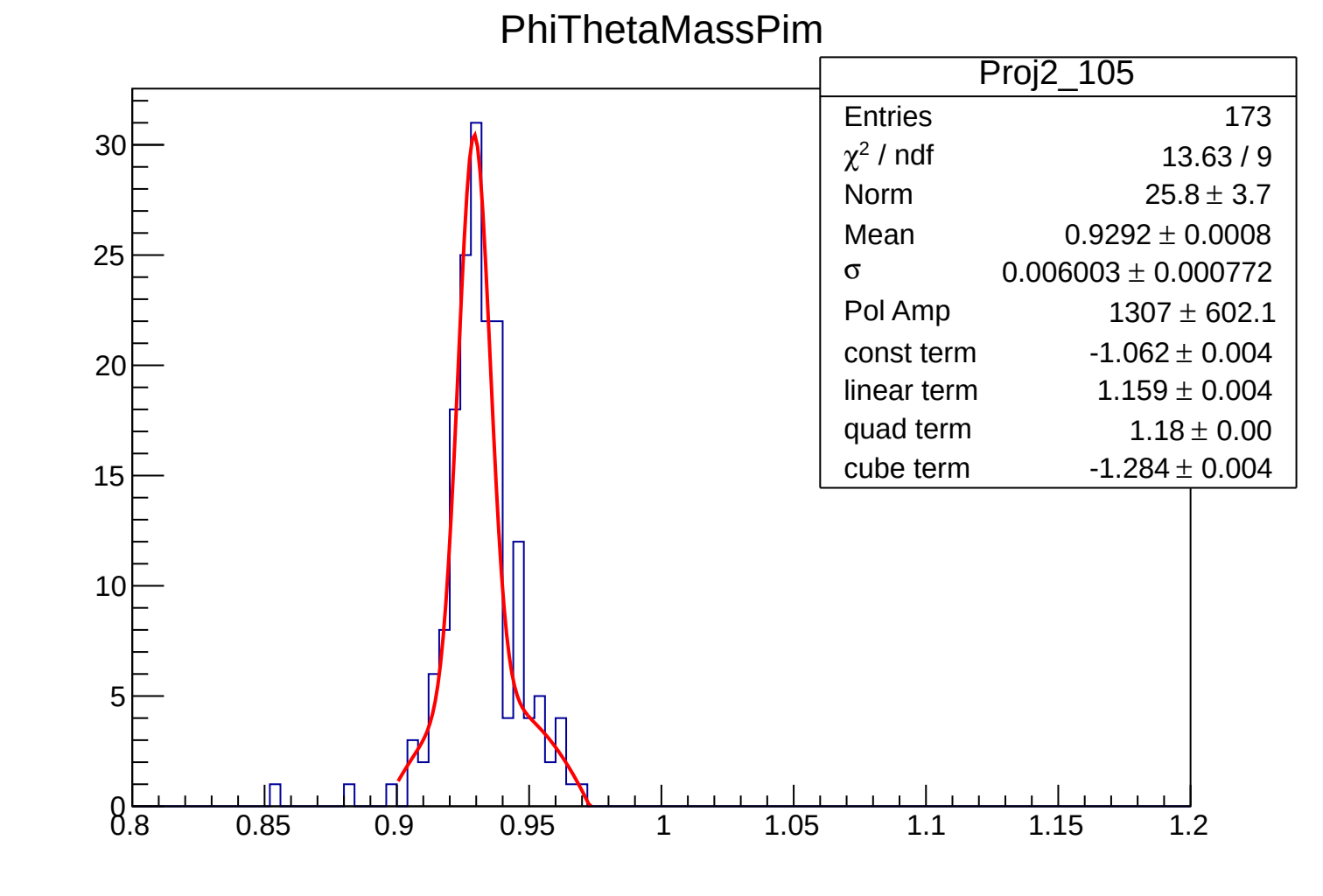

PhiThetaMassPim
Proj2_100
Entries 219
χ² / ndf 17.77 / 11
Norm 26.41 ± 2.91
Mean 0.9294 ± 0.0008
σ 0.009593 ± 0.000855
Pol Amp 358 ± 2.1
const term -1.337 ± 0.611
linear term 1.452 ± 0.655
quad term 1.442 ± 0.673
cube term -1.559 ± 0.720
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

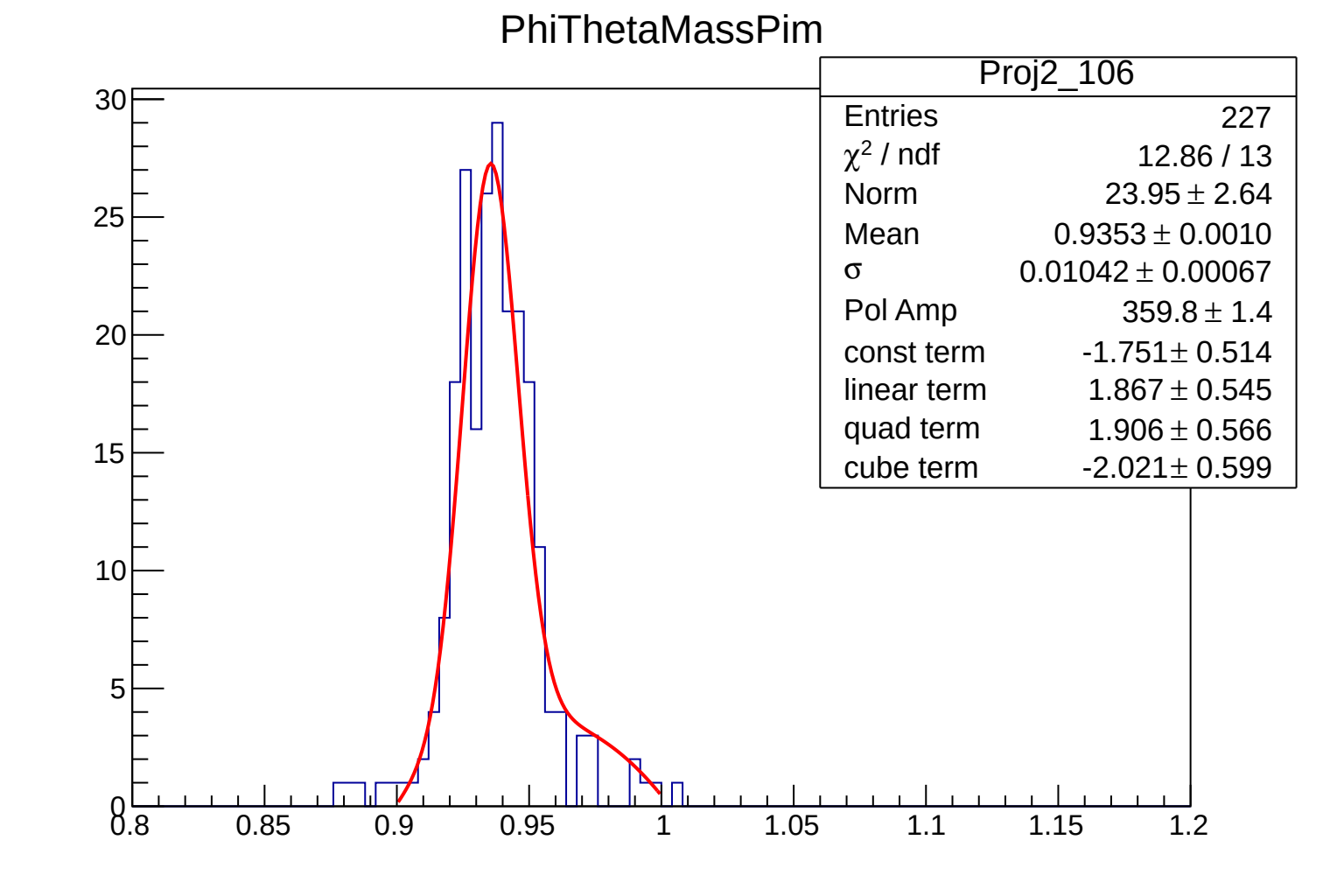

PhiThetaMassPim
Proj2_101
Entries 141
χ² / ndf 5.018 / 9
Norm 19.35 ± 2.67
Mean 0.9279 ± 0.0011
σ 0.008237 ± 0.001056
Pol Amp 193.5 ± 154.3
const term -1.726 ± 0.021
linear term 1.86 ± 0.03
quad term 1.905 ± 0.027
cube term -2.039 ± 0.025
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_102
Entries 200
χ² / ndf 10.35 / 14
Norm 24.68 ± 2.62
Mean 0.9349 ± 0.0010
σ 0.01039 ± 0.00096
Pol Amp 115.7 ± 166.3
const term -1.187 ± 0.030
linear term 1.268 ± 0.036
quad term 1.294 ± 0.038
cube term -1.367 ± 0.036
0
5
10
15
20
25
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_103
Entries 294
χ² / ndf 15.45 / 12
Norm 35.54 ± 3.24
Mean 0.9349 ± 0.0009
σ 0.01064 ± 0.00094
Pol Amp 219.7 ± 218.6
const term -1.888 ± 0.021
linear term 2.026 ± 0.024
quad term 2.058 ± 0.025
cube term -2.197 ± 0.025
0
5
10
15
20
25
30
35
40
45
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_104
Entries 287
χ² / ndf 16.76 / 13
Norm 37.37 ± 3.23
Mean 0.9333 ± 0.0008
σ 0.009761± 0.000691
Pol Amp 212.1± 219.3
const term -0.9582 ± 0.0198
linear term 1.057 ± 0.022
quad term 1.029 ± 0.023
cube term -1.125 ± 0.021
0
5
10
15
20
25
30
35
40
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_105
Entries 173
χ² / ndf 13.63 / 9
Norm 25.8 ± 3.7
Mean 0.9292 ± 0.0008
σ 0.006003 ± 0.000772
Pol Amp 1307 ± 602.1
const term -1.062 ± 0.004
linear term 1.159 ± 0.004
quad term 1.18 ± 0.00
cube term -1.284 ± 0.004
0
5
10
15
20
25
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_106
Entries 227
χ² / ndf 12.86 / 13
Norm 23.95 ± 2.64
Mean 0.9353 ± 0.0010
σ 0.01042 ± 0.00067
Pol Amp 359.8 ± 1.4
const term -1.751 ± 0.514
linear term 1.867 ± 0.545
quad term 1.906 ± 0.566
cube term -2.021 ± 0.599
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
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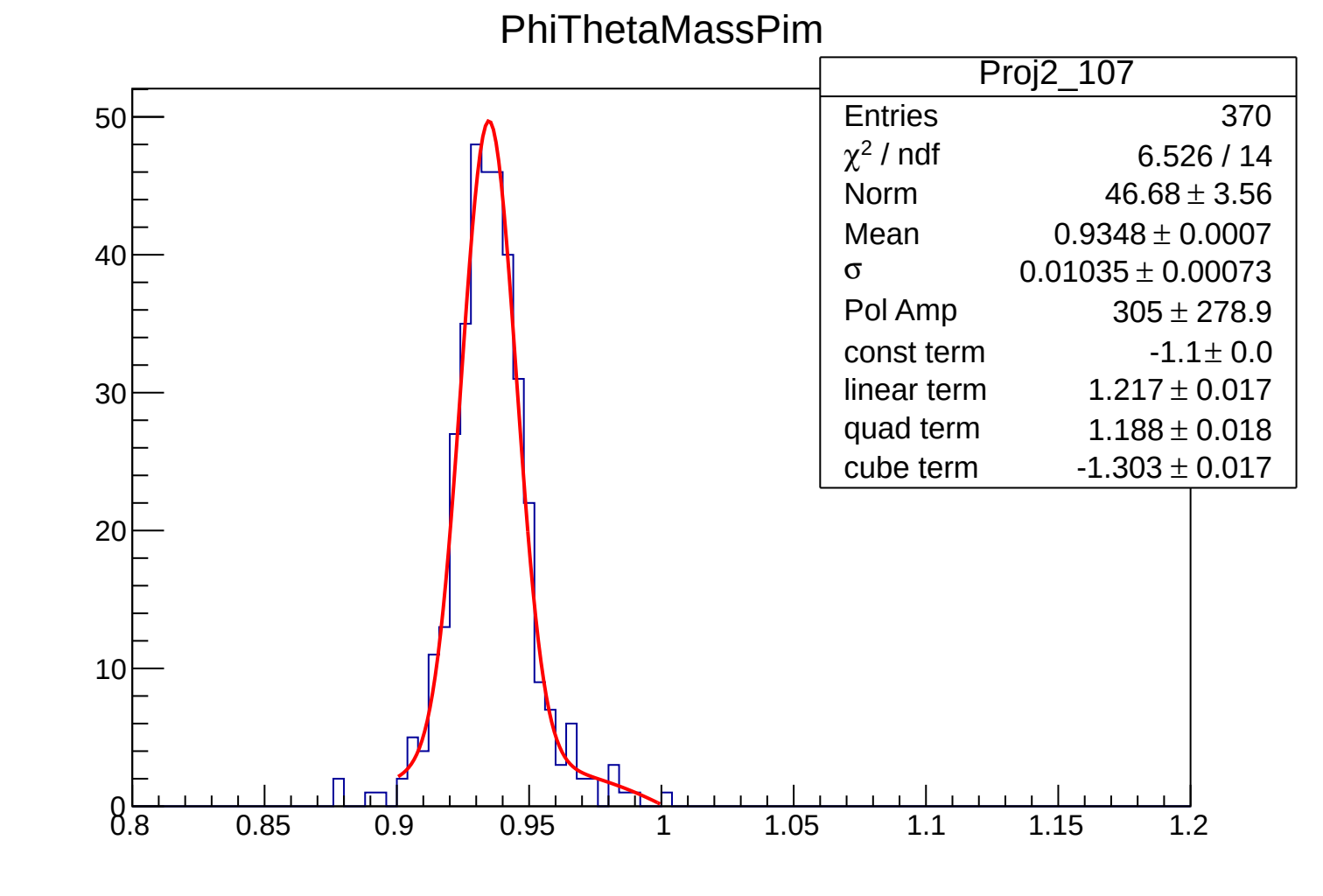
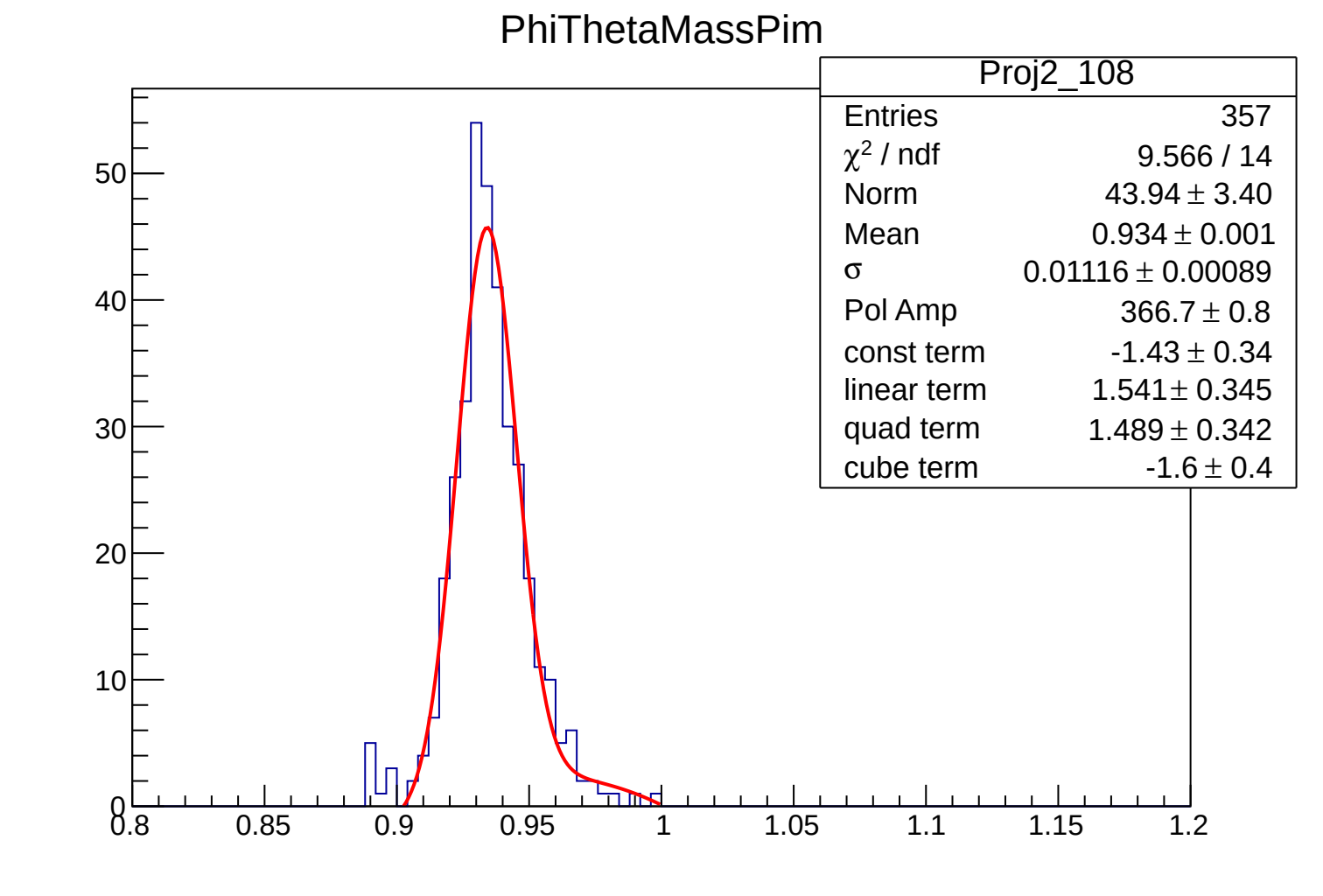
1.1
1.15
1.2


PhiThetaMassPim
Proj2_107
Entries 370
χ² / ndf 6.526 / 14
Norm 46.68 ± 3.56
Mean 0.9348 ± 0.0007
σ 0.01035 ± 0.00073
Pol Amp 305 ± 278.9
const term -1.1 ± 0.0
linear term 1.217 ± 0.017
quad term 1.188 ± 0.018
cube term -1.303 ± 0.017
0
10
20
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_108
Entries 357
χ² / ndf 9.566 / 14
Norm 43.94 ± 3.40
Mean 0.934 ± 0.001
σ 0.01116 ± 0.00089
Pol Amp 366.7 ± 0.8
const term -1.43 ± 0.34
linear term 1.541 ± 0.345
quad term 1.489 ± 0.342
cube term -1.6 ± 0.4
0
10
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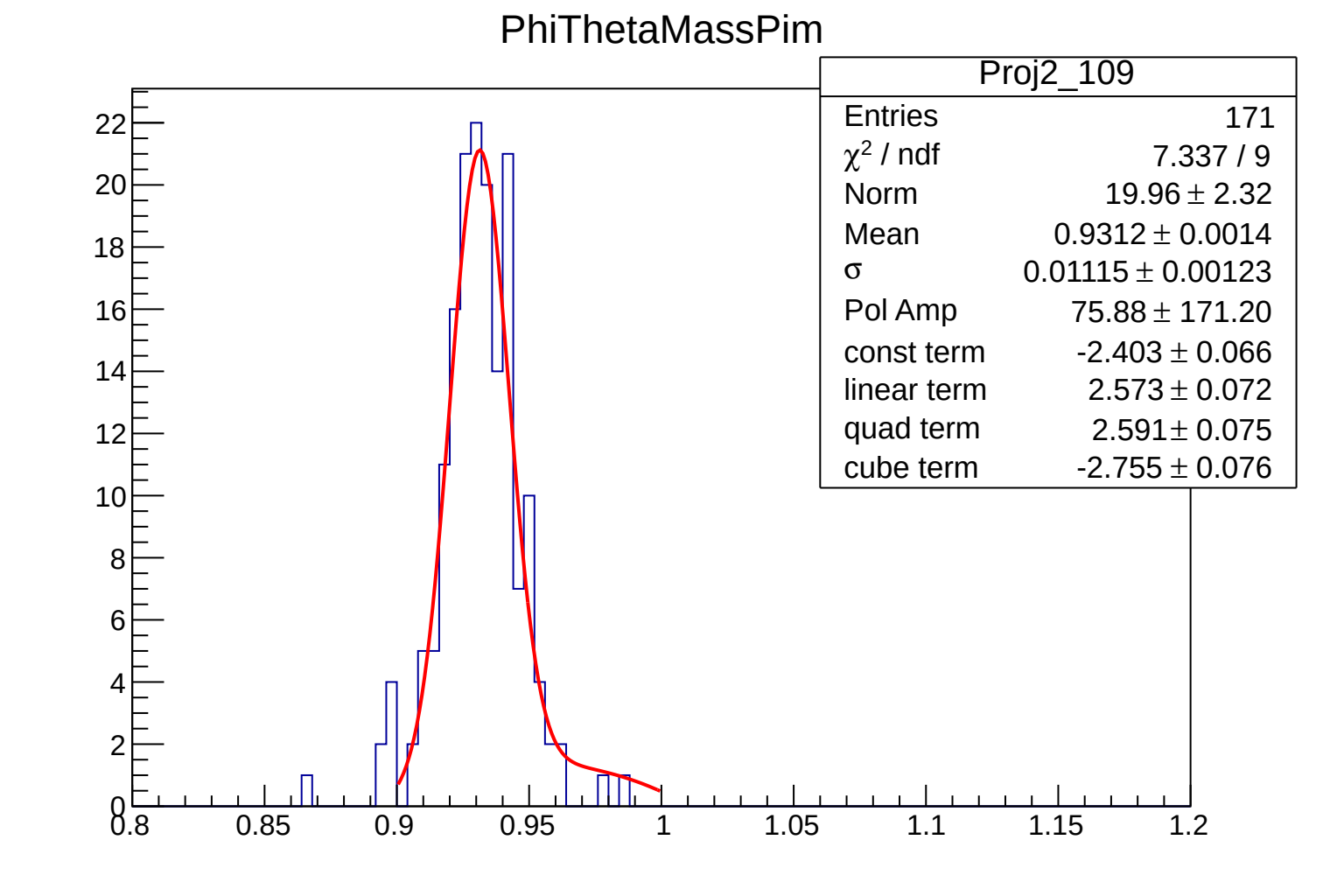
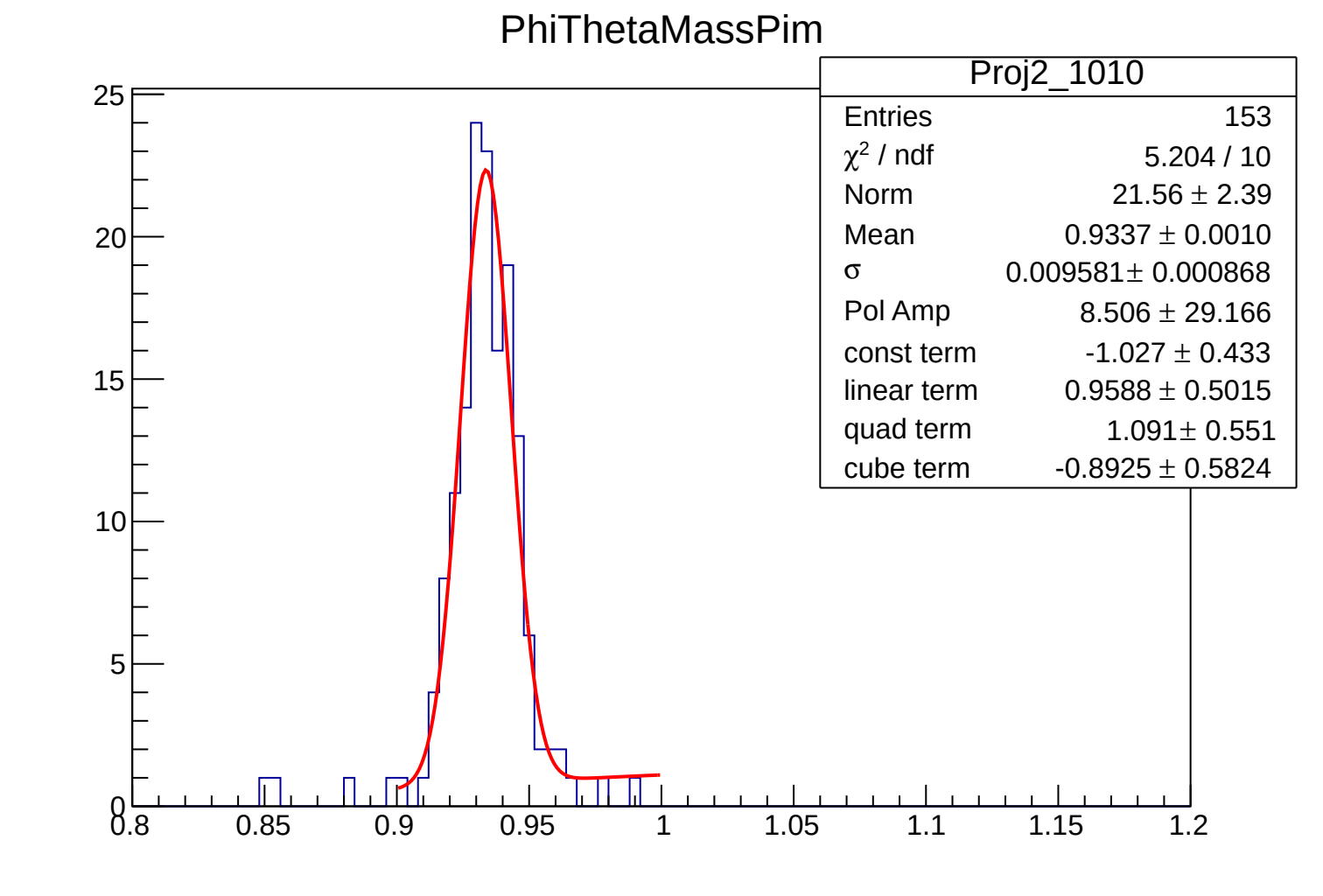
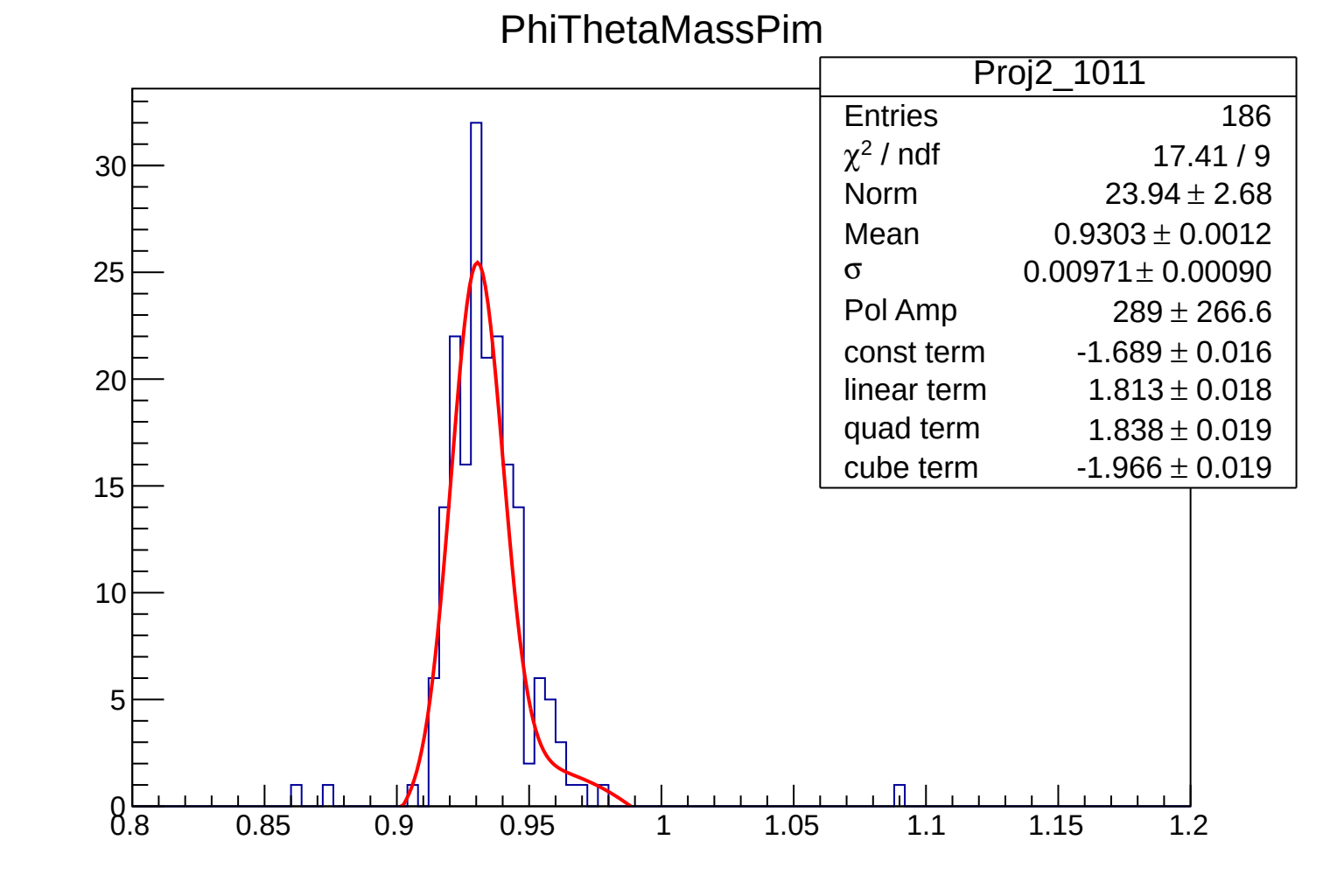
30
40
50
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_109
Entries 171
χ² / ndf 7.337 / 9
Norm 19.96 ± 2.32
Mean 0.9312 ± 0.0014
σ 0.01115 ± 0.00123
Pol Amp 75.88 ± 171.20
const term -2.403 ± 0.066
linear term 2.573 ± 0.072
quad term 2.591 ± 0.075
cube term -2.755 ± 0.076
0 2 4 6 8 10 12 14 16 18 20 22
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2


PhiThetaMassPim
Proj2_1010
Entries 153
χ² / ndf 5.204 / 10
Norm 21.56 ± 2.39
Mean 0.9337 ± 0.0010
σ 0.009581± 0.000868
Pol Amp 8.506 ± 29.166
const term -1.027 ± 0.433
linear term 0.9588 ± 0.5015
quad term 1.091± 0.551
cube term -0.8925 ± 0.5824
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_1011
Entries 186
χ² / ndf 17.41 / 9
Norm 23.94 ± 2.68
Mean 0.9303 ± 0.0012
σ 0.00971 ± 0.00090
Pol Amp 289 ± 266.6
const term -1.689 ± 0.016
linear term 1.813 ± 0.018
quad term 1.838 ± 0.019
cube term -1.966 ± 0.019
0
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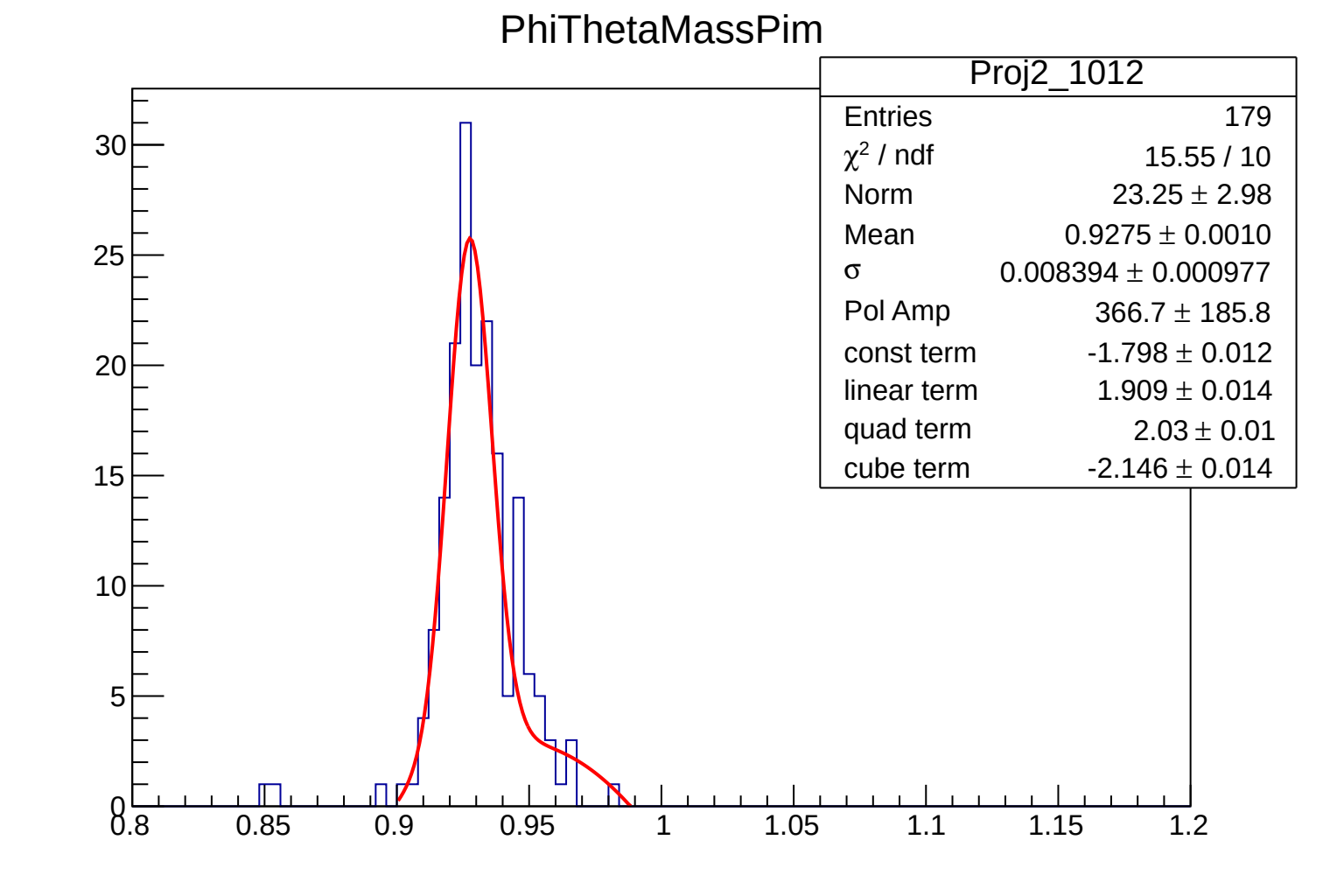
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_1012
Entries 179
χ² / ndf 15.55 / 10
Norm 23.25 ± 2.98
Mean 0.9275 ± 0.0010
σ 0.008394 ± 0.000977
Pol Amp 366.7 ± 185.8
const term -1.798 ± 0.012
linear term 1.909 ± 0.014
quad term 2.03 ± 0.01
cube term -2.146 ± 0.014
0
5
10
15
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25
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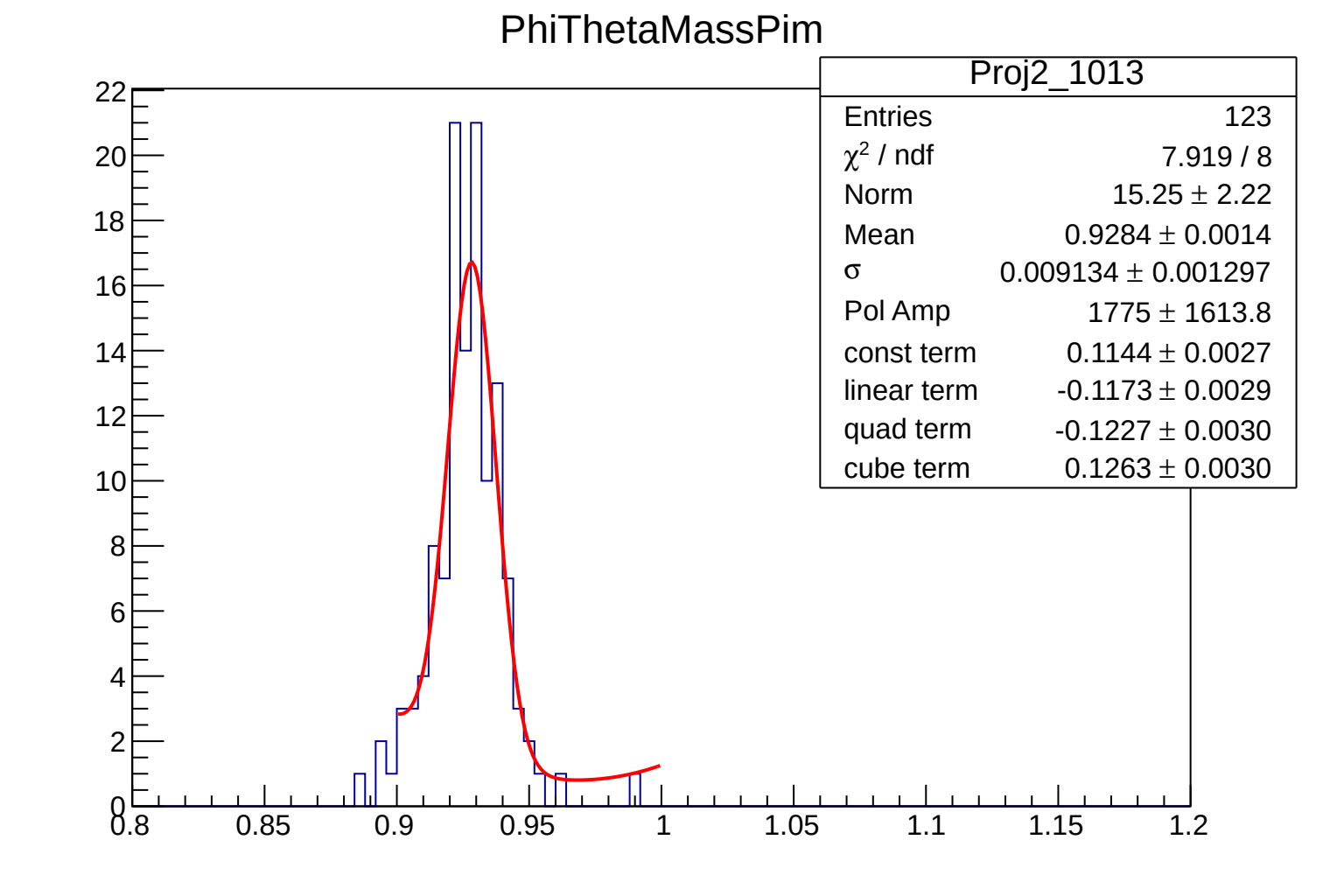
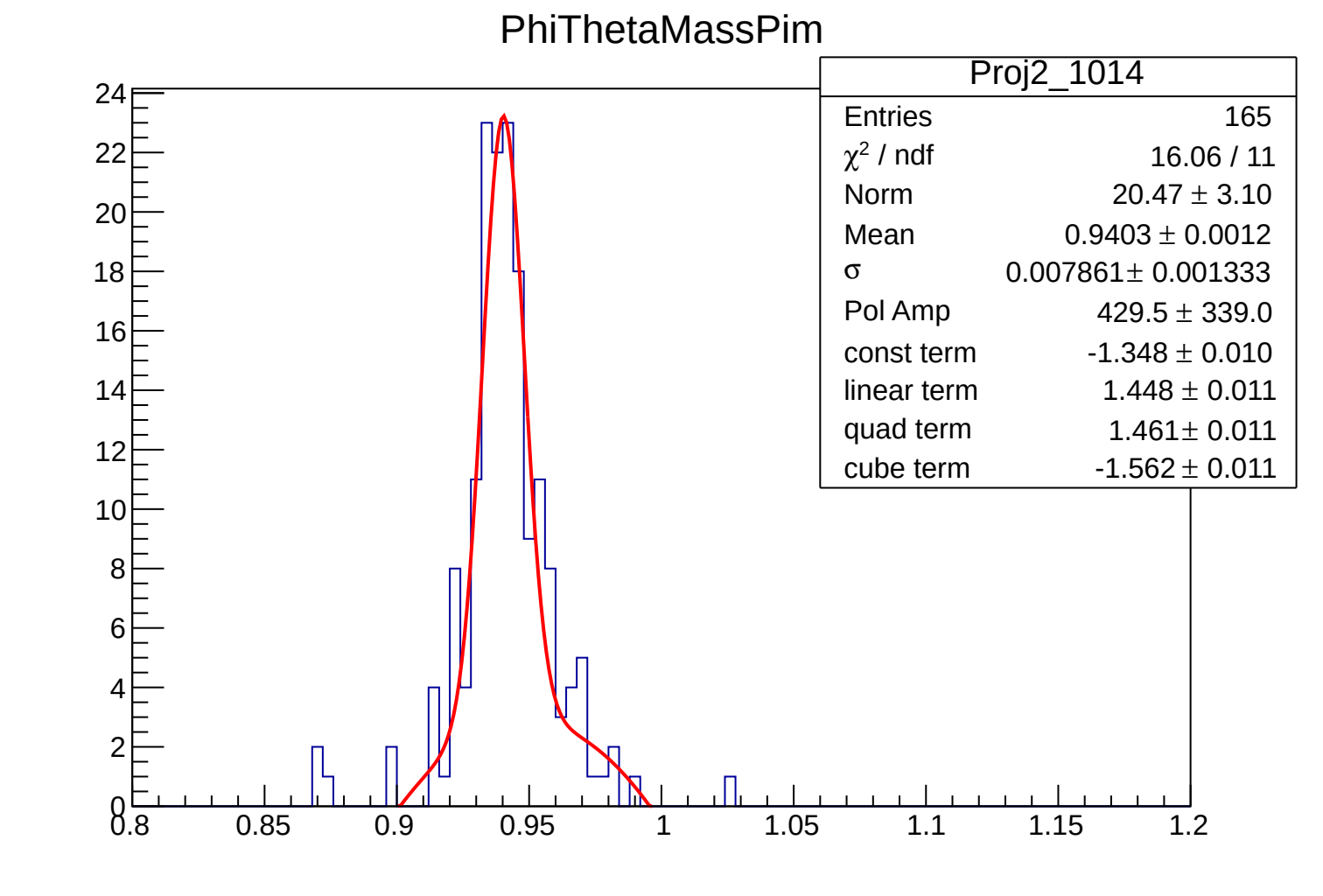
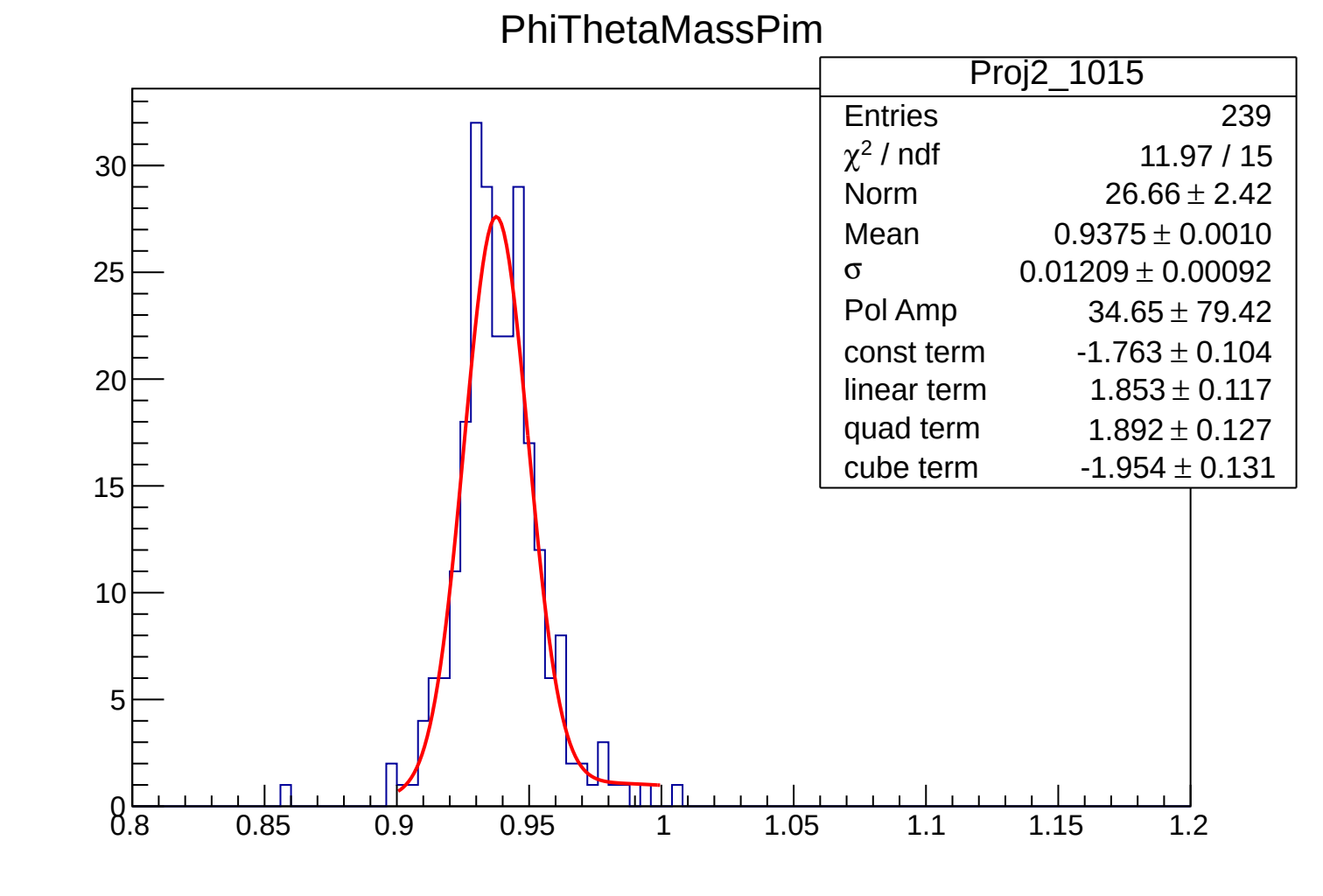
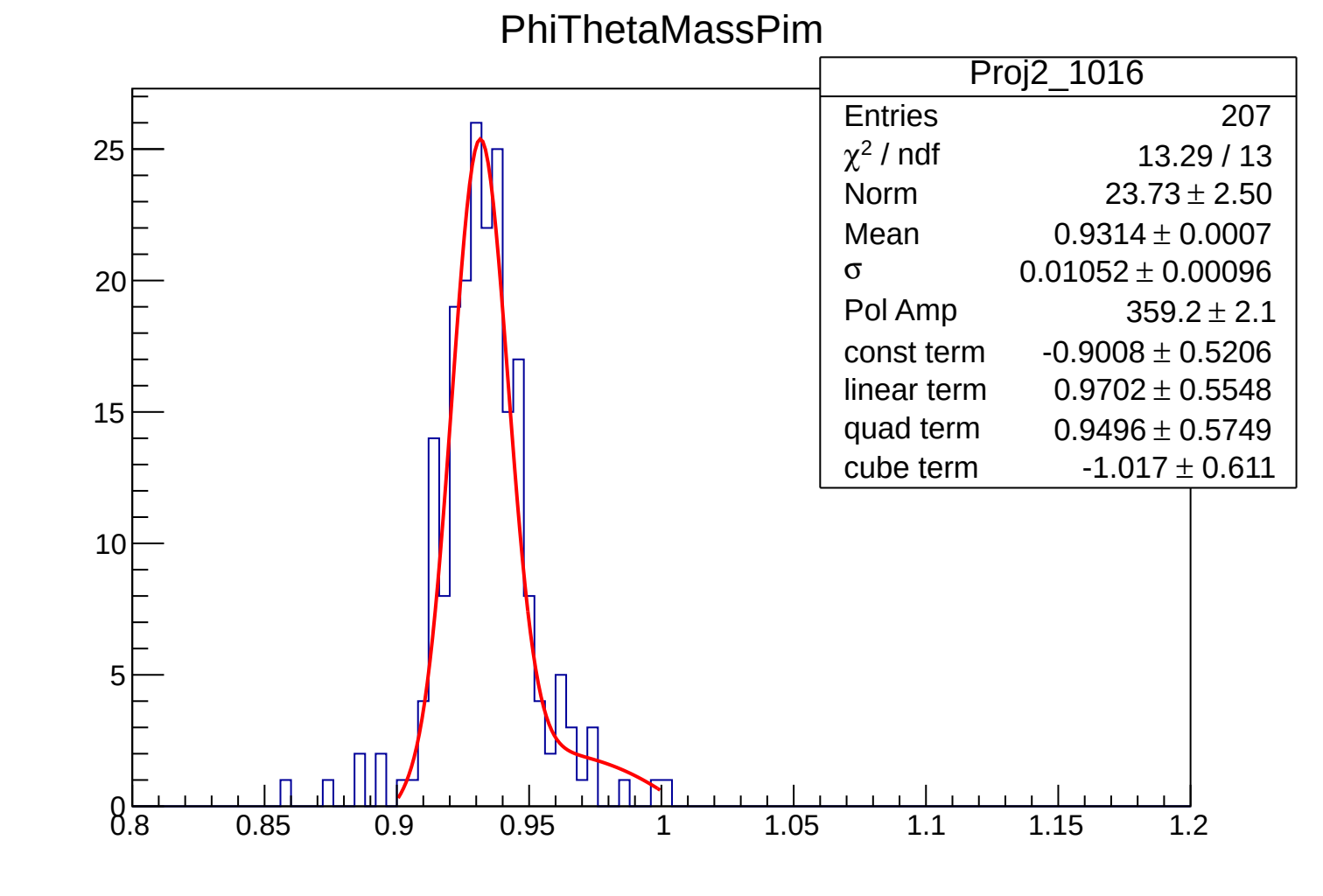
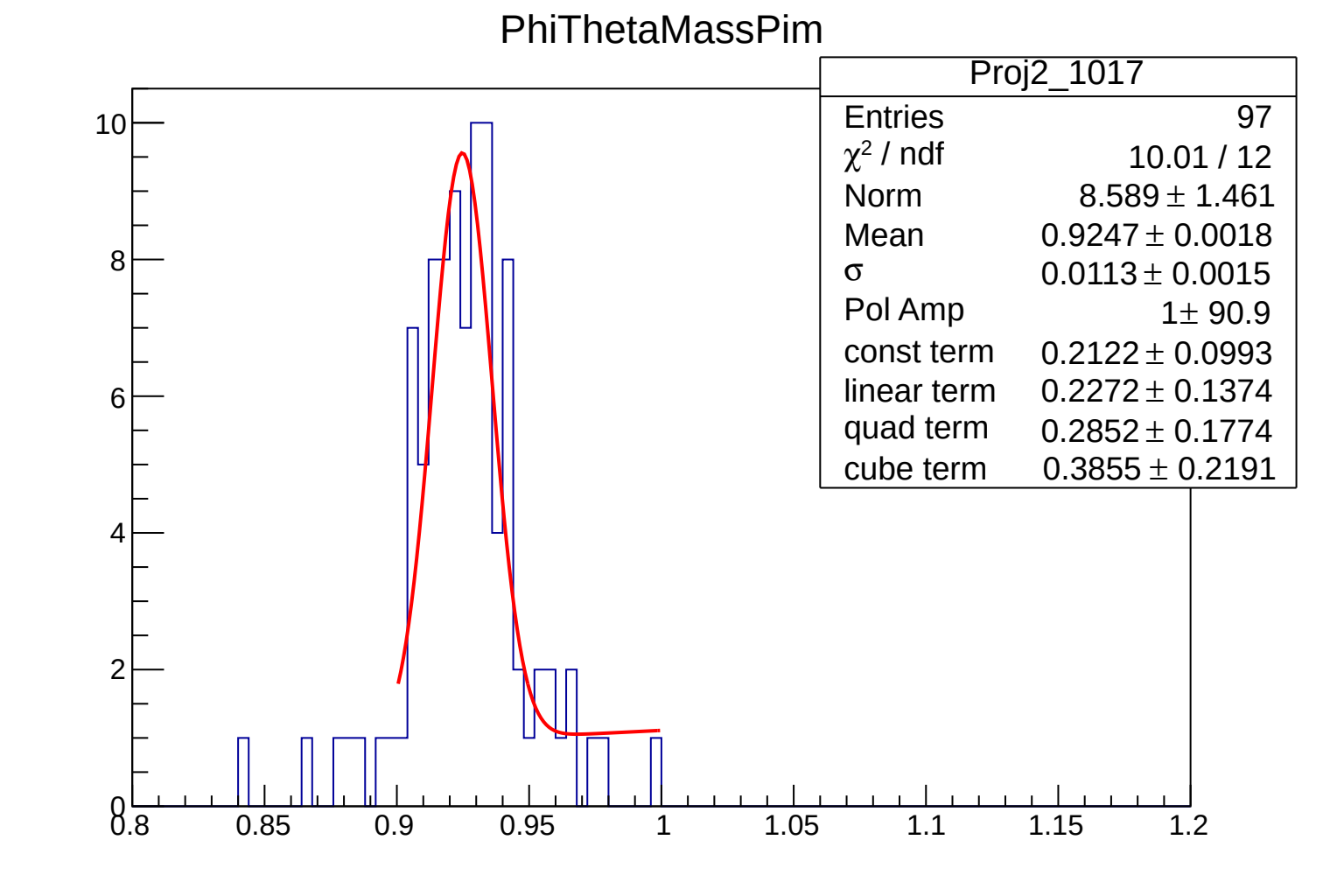
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

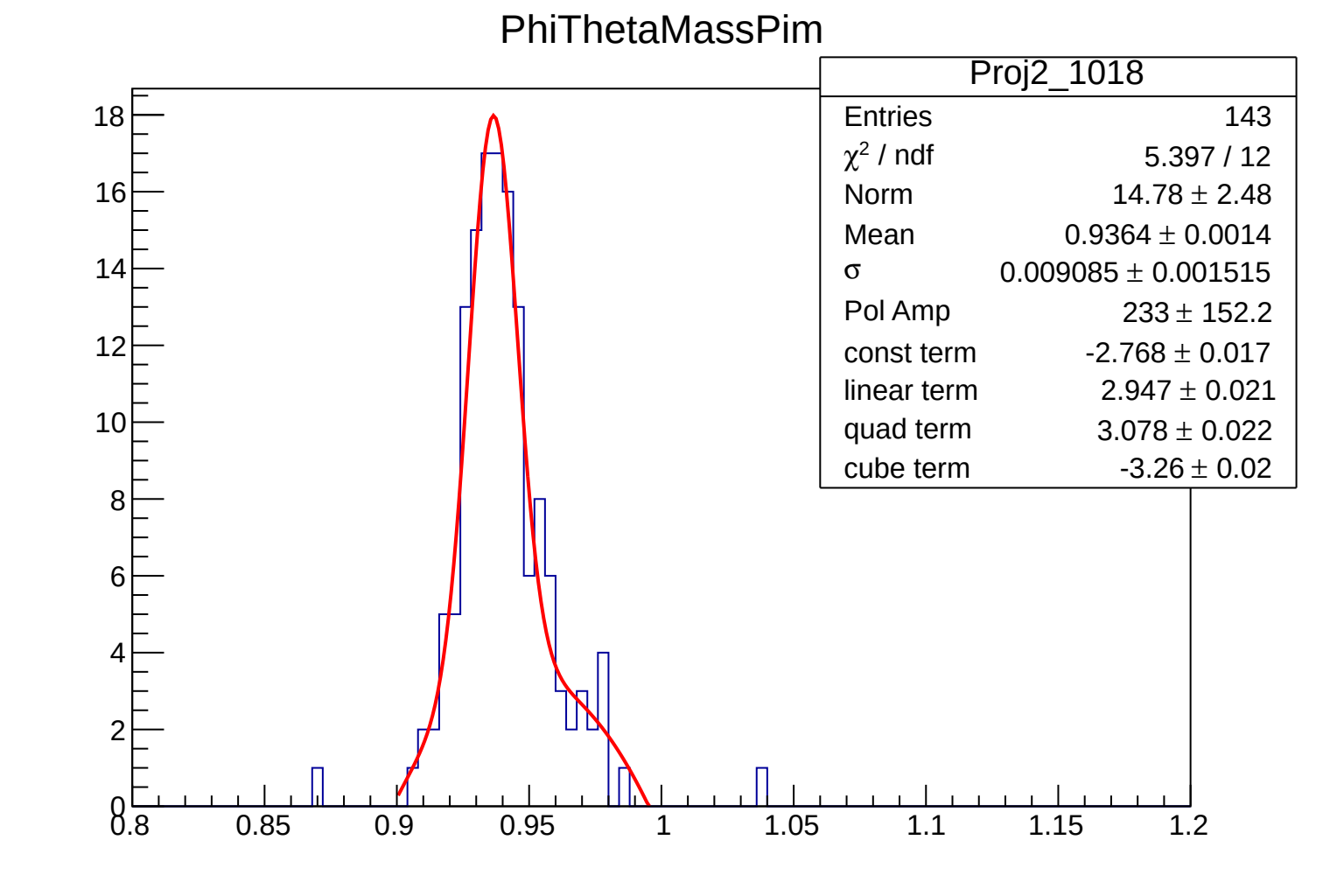

PhiThetaMassPim
Proj2_1013
Entries 123
χ² / ndf 7.919 / 8
Norm 15.25 ± 2.22
Mean 0.9284 ± 0.0014
σ 0.009134 ± 0.001297
Pol Amp 1775 ± 1613.8
const term 0.1144 ± 0.0027
linear term -0.1173 ± 0.0029
quad term -0.1227 ± 0.0030
cube term 0.1263 ± 0.0030
0 2 4 6 8 10 12 14 16 18 20 22
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

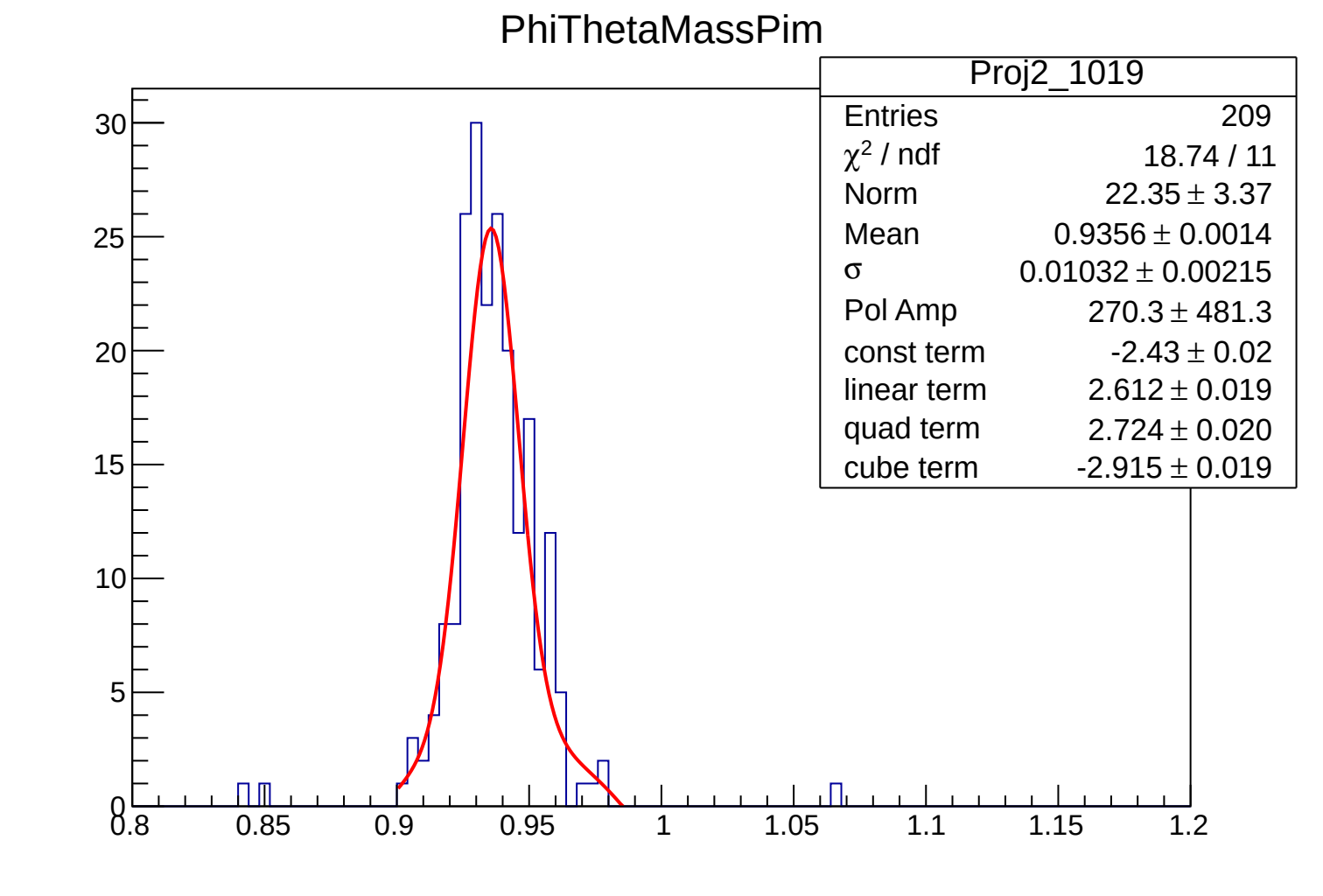

PhiThetaMassPim
Proj2_1014
Entries 165
χ² / ndf 16.06 / 11
Norm 20.47 ± 3.10
Mean 0.9403 ± 0.0012
σ 0.007861± 0.001333
Pol Amp 429.5 ± 339.0
const term -1.348 ± 0.010
linear term 1.448 ± 0.011
quad term 1.461± 0.011
cube term -1.562 ± 0.011
0 2 4 6 8 10 12 14 16 18 20 22 24
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

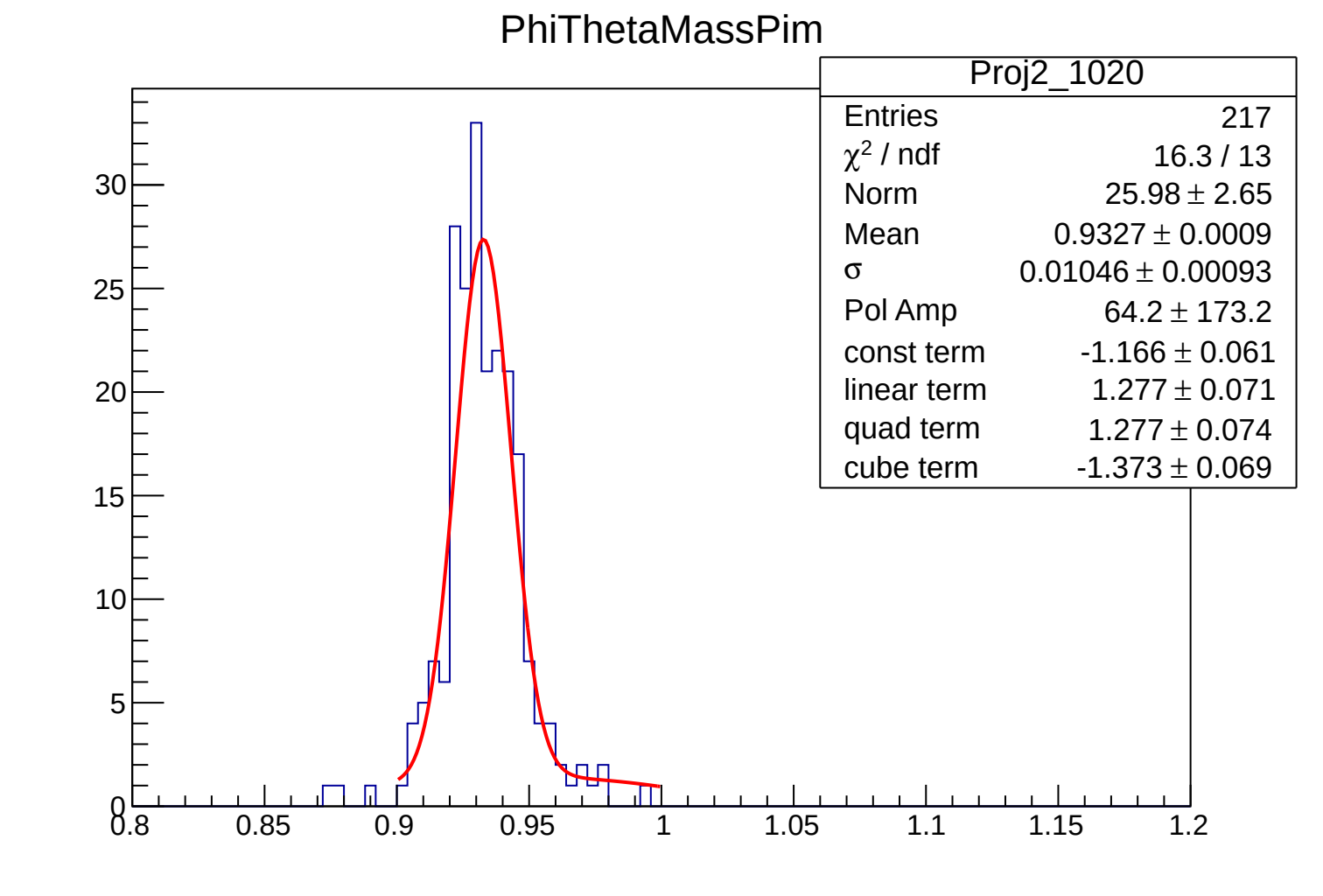

PhiThetaMassPim
Proj2_1015
Entries 239
χ² / ndf 11.97 / 15
Norm 26.66 ± 2.42
Mean 0.9375 ± 0.0010
σ 0.01209 ± 0.00092
Pol Amp 34.65 ± 79.42
const term -1.763 ± 0.104
linear term 1.853 ± 0.117
quad term 1.892 ± 0.127
cube term -1.954 ± 0.131
0
5
10
15
20
25
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

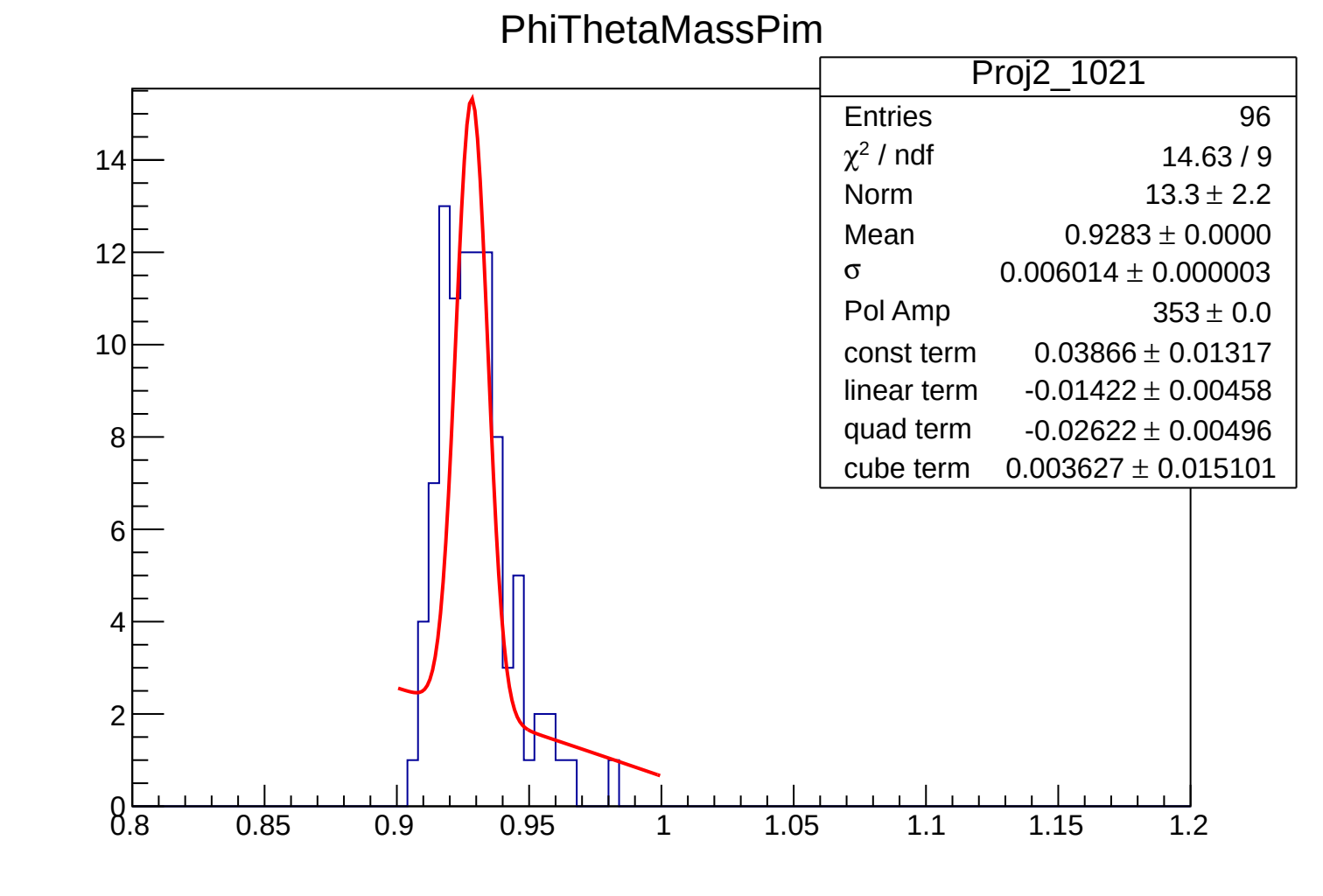

PhiThetaMassPim
Proj2_1016
Entries 207
χ² / ndf 13.29 / 13
Norm 23.73 ± 2.50
Mean 0.9314 ± 0.0007
σ 0.01052 ± 0.00096
Pol Amp 359.2 ± 2.1
const term -0.9008 ± 0.5206
linear term 0.9702 ± 0.5548
quad term 0.9496 ± 0.5749
cube term -1.017 ± 0.611
0
5
10
15
20
25
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

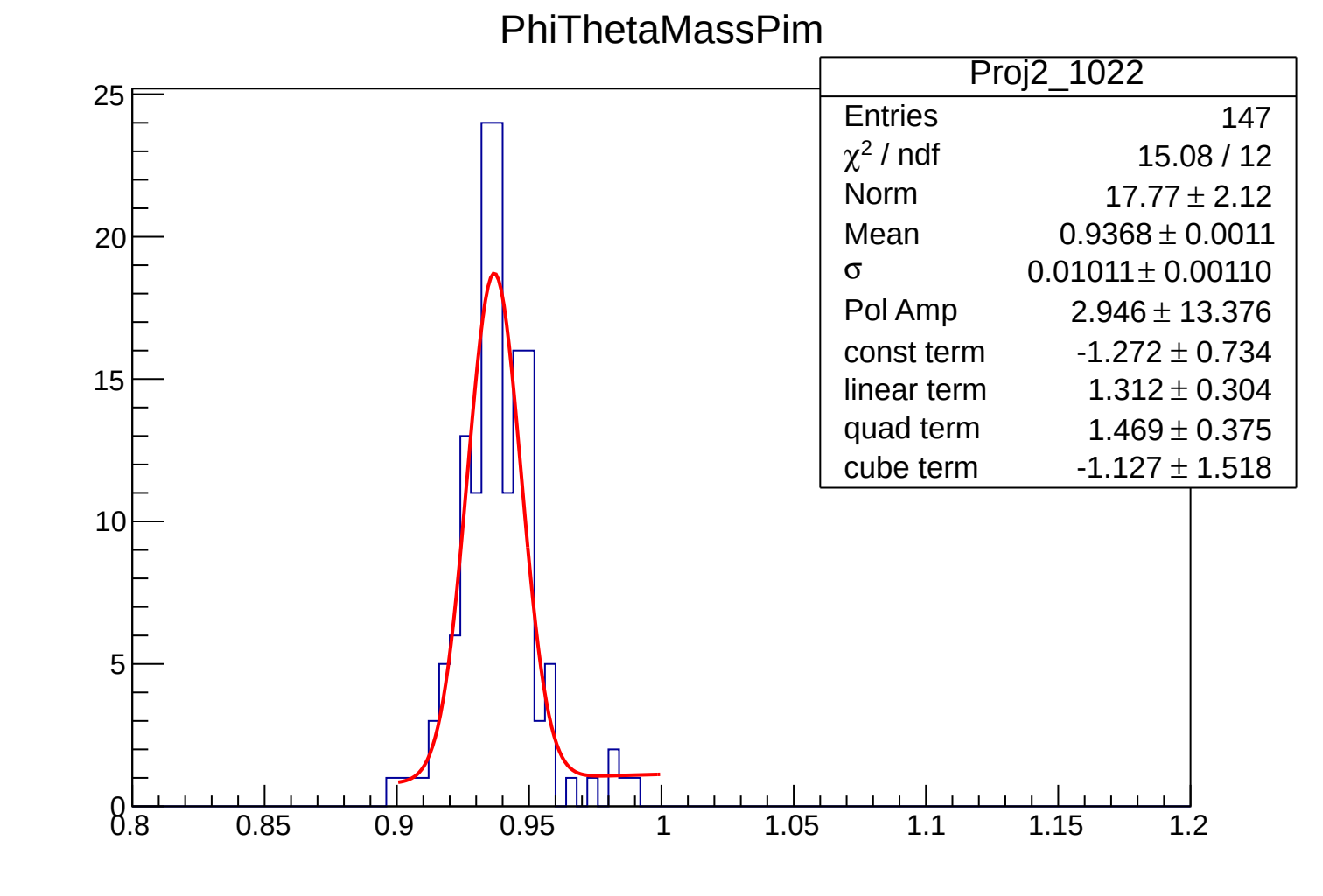

PhiThetaMassPim
Proj2_1017
Entries 97
χ² / ndf 10.01 / 12
Norm 8.589 ± 1.461
Mean 0.9247 ± 0.0018
σ 0.0113 ± 0.0015
Pol Amp 1± 90.9
const term 0.2122 ± 0.0993
linear term 0.2272 ± 0.1374
quad term 0.2852 ± 0.1774
cube term 0.3855 ± 0.2191
0
2
4
6
8
10
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

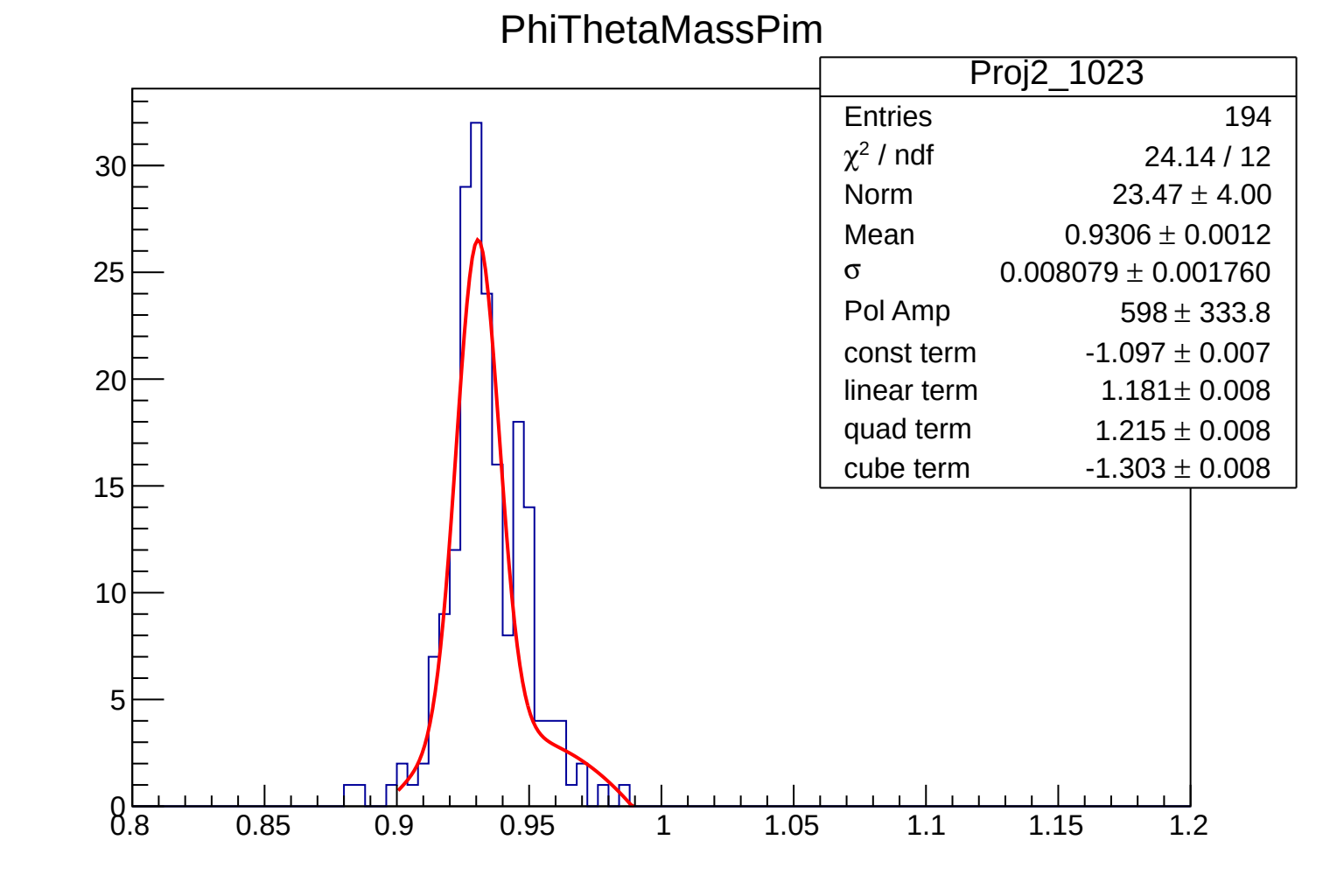

PhiThetaMassPim
Proj2_1018
Entries 143
χ² / ndf 5.397 / 12
Norm 14.78 ± 2.48
Mean 0.9364 ± 0.0014
σ 0.009085 ± 0.001515
Pol Amp 233 ± 152.2
const term -2.768 ± 0.017
linear term 2.947 ± 0.021
quad term 3.078 ± 0.022
cube term -3.26 ± 0.02
0 2 4 6 8 10 12 14 16 18
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

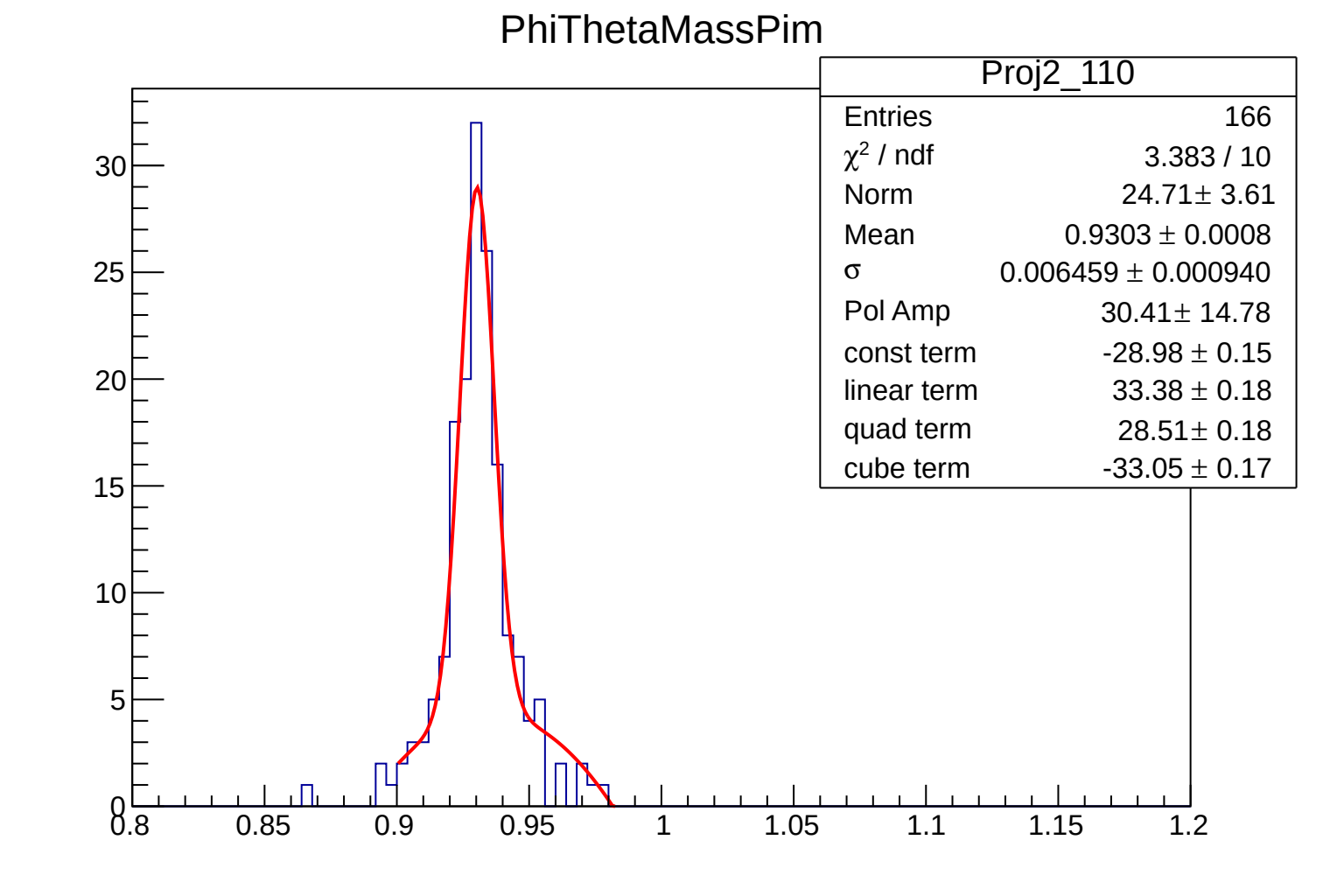

PhiThetaMassPim
Proj2_1019
Entries 209
χ² / ndf 18.74 / 11
Norm 22.35 ± 3.37
Mean 0.9356 ± 0.0014
σ 0.01032 ± 0.00215
Pol Amp 270.3 ± 481.3
const term -2.43 ± 0.02
linear term 2.612 ± 0.019
quad term 2.724 ± 0.020
cube term -2.915 ± 0.019
0
5
10
15
20
25
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

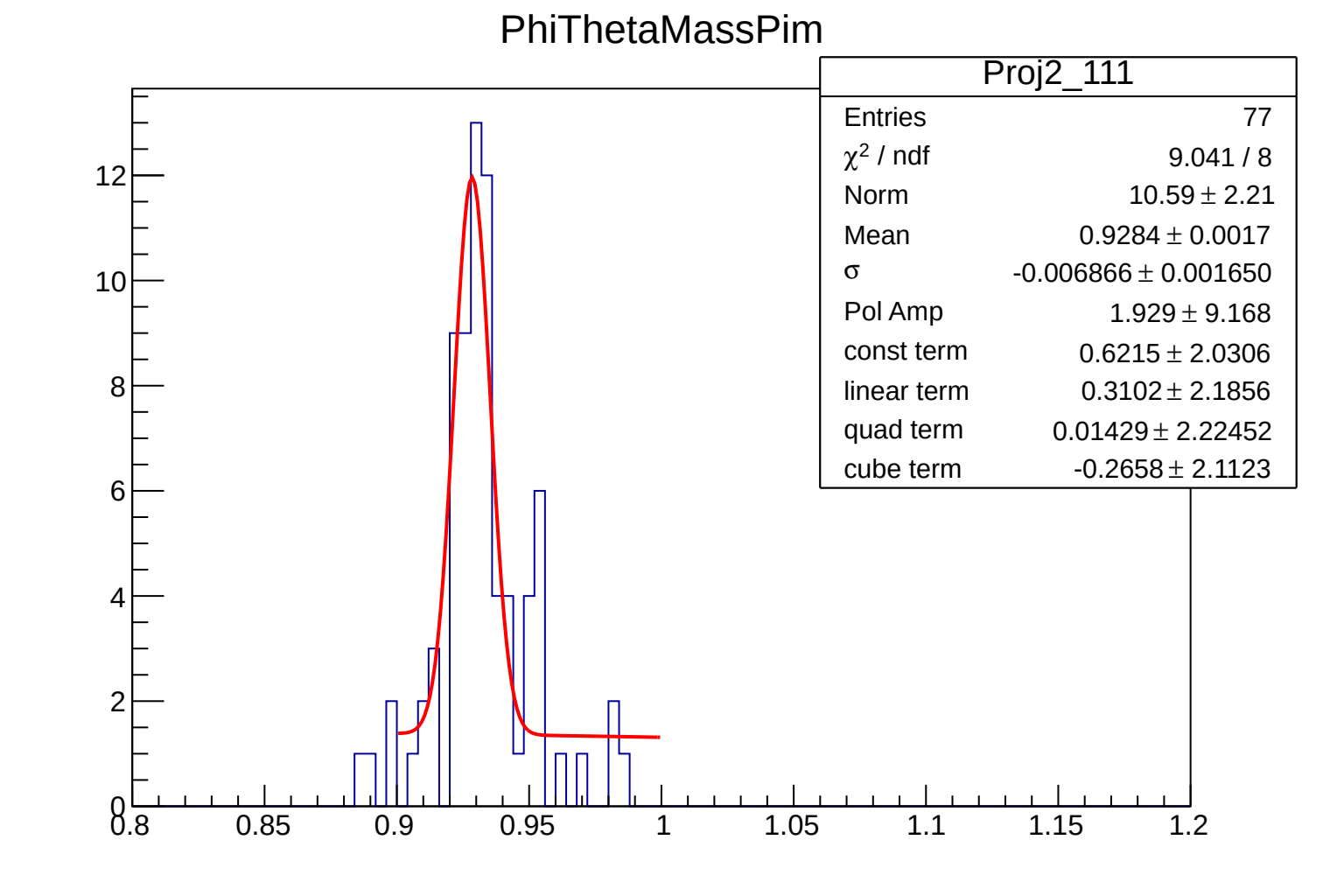

PhiThetaMassPim
Proj2_1020
Entries 217
χ² / ndf 16.3 / 13
Norm 25.98 ± 2.65
Mean 0.9327 ± 0.0009
σ 0.01046 ± 0.00093
Pol Amp 64.2 ± 173.2
const term -1.166 ± 0.061
linear term 1.277 ± 0.071
quad term 1.277 ± 0.074
cube term -1.373 ± 0.069
0
5
10
15
20
25
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

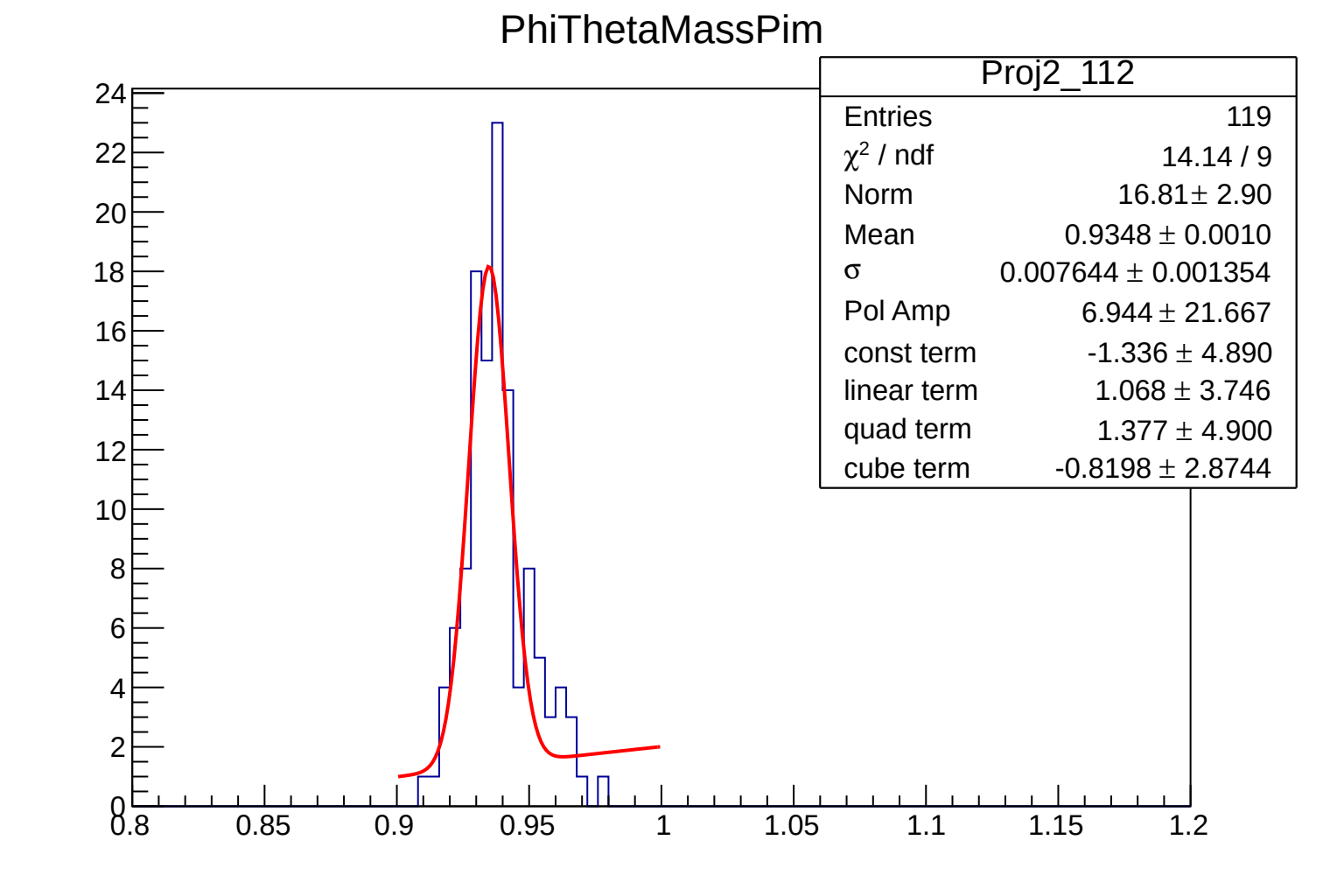

PhiThetaMassPim
Proj2_1021
Entries 96
χ² / ndf 14.63 / 9
Norm 13.3 ± 2.2
Mean 0.9283 ± 0.0000
σ 0.006014 ± 0.000003
Pol Amp 353 ± 0.0
const term 0.03866 ± 0.01317
linear term -0.01422 ± 0.00458
quad term -0.02622 ± 0.00496
cube term 0.003627 ± 0.015101
0
2
4
6
8
10
12
14
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

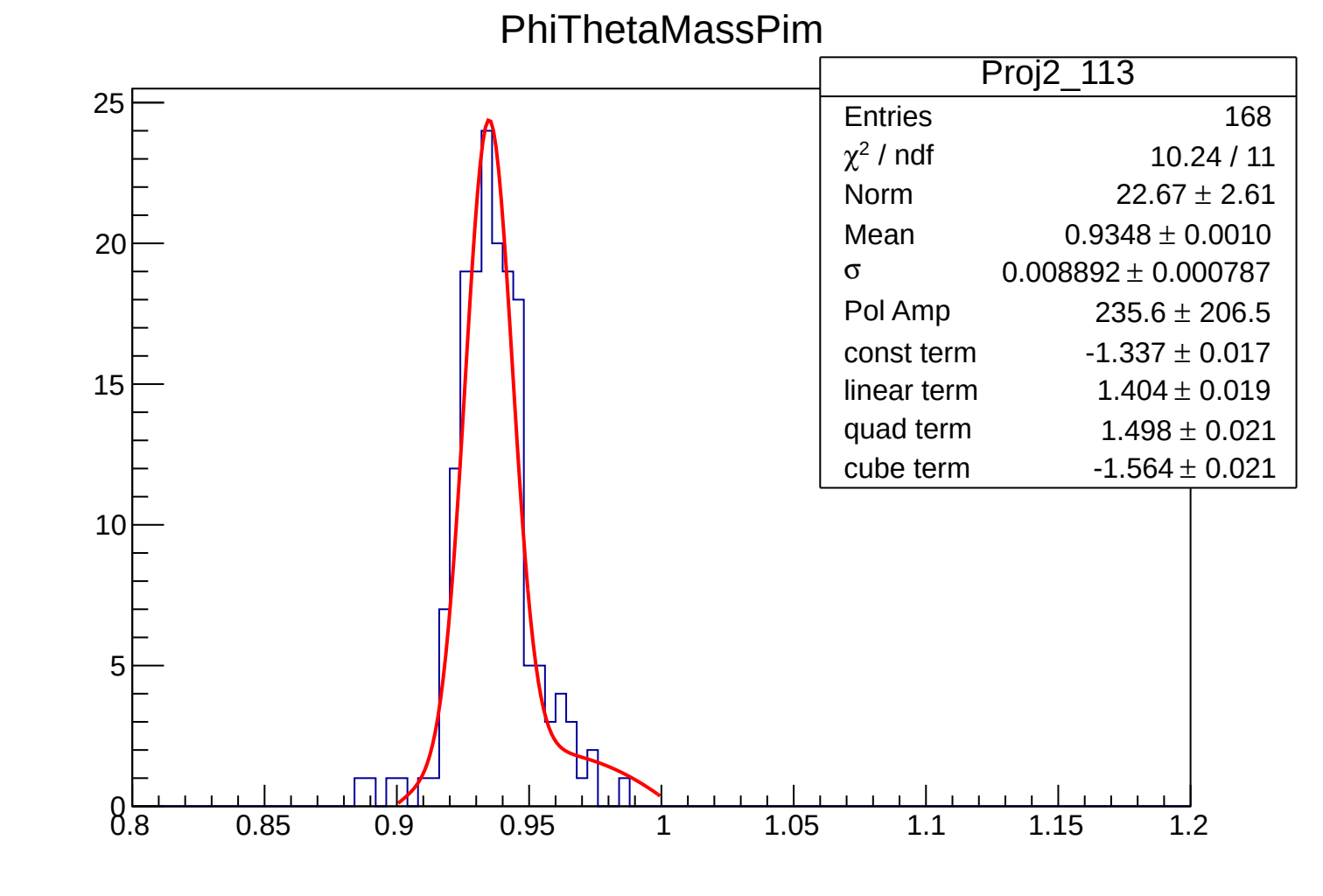

PhiThetaMassPim
Proj2_1022
Entries 147
χ² / ndf 15.08 / 12
Norm 17.77 ± 2.12
Mean 0.9368 ± 0.0011
σ 0.01011 ± 0.00110
Pol Amp 2.946 ± 13.376
const term -1.272 ± 0.734
linear term 1.312 ± 0.304
quad term 1.469 ± 0.375
cube term -1.127 ± 1.518
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

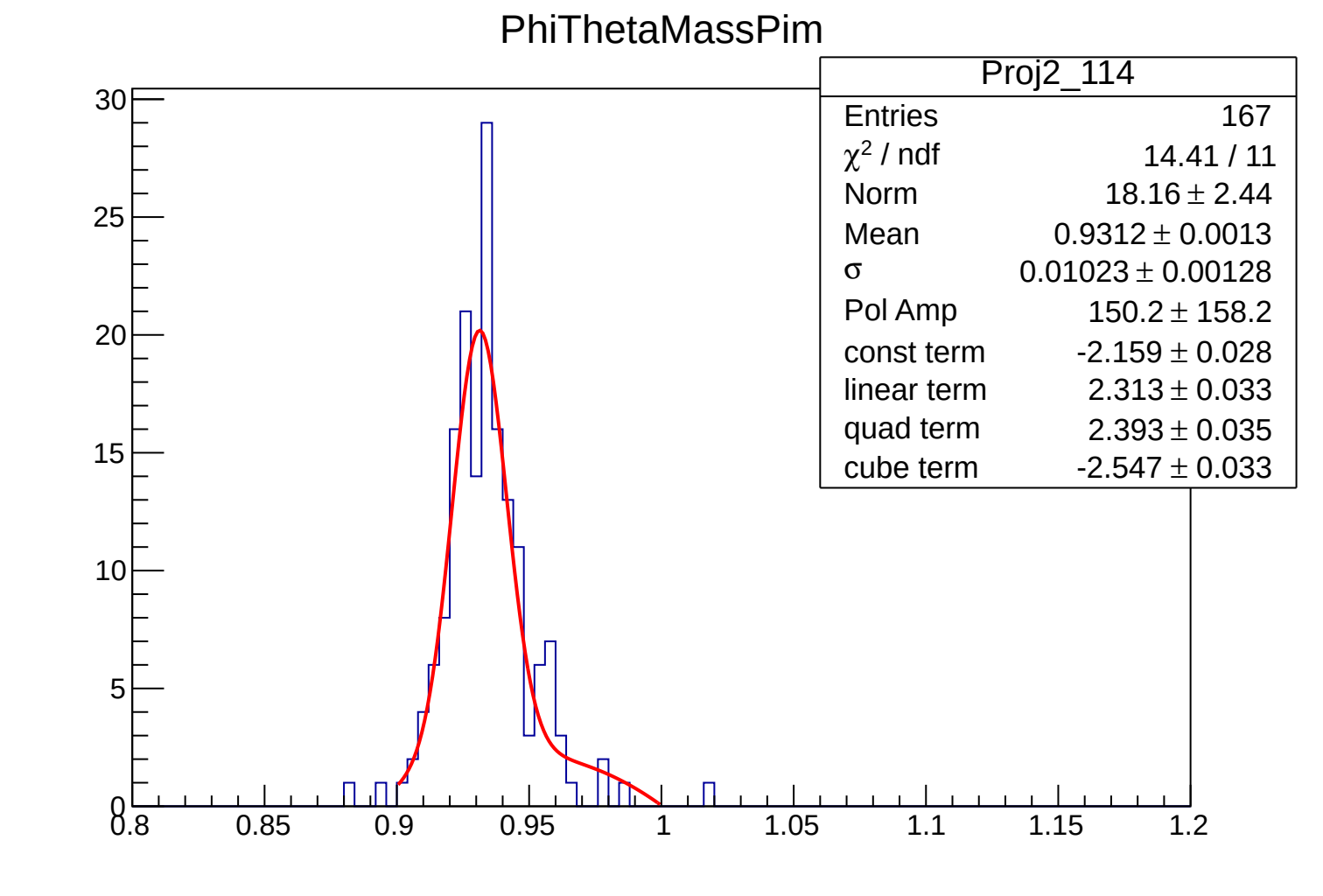

PhiThetaMassPim
Proj2_1023
Entries 194
χ² / ndf 24.14 / 12
Norm 23.47 ± 4.00
Mean 0.9306 ± 0.0012
σ 0.008079 ± 0.001760
Pol Amp 598 ± 333.8
const term -1.097 ± 0.007
linear term 1.181± 0.008
quad term 1.215 ± 0.008
cube term -1.303 ± 0.008
0
5
10
15
20
25
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

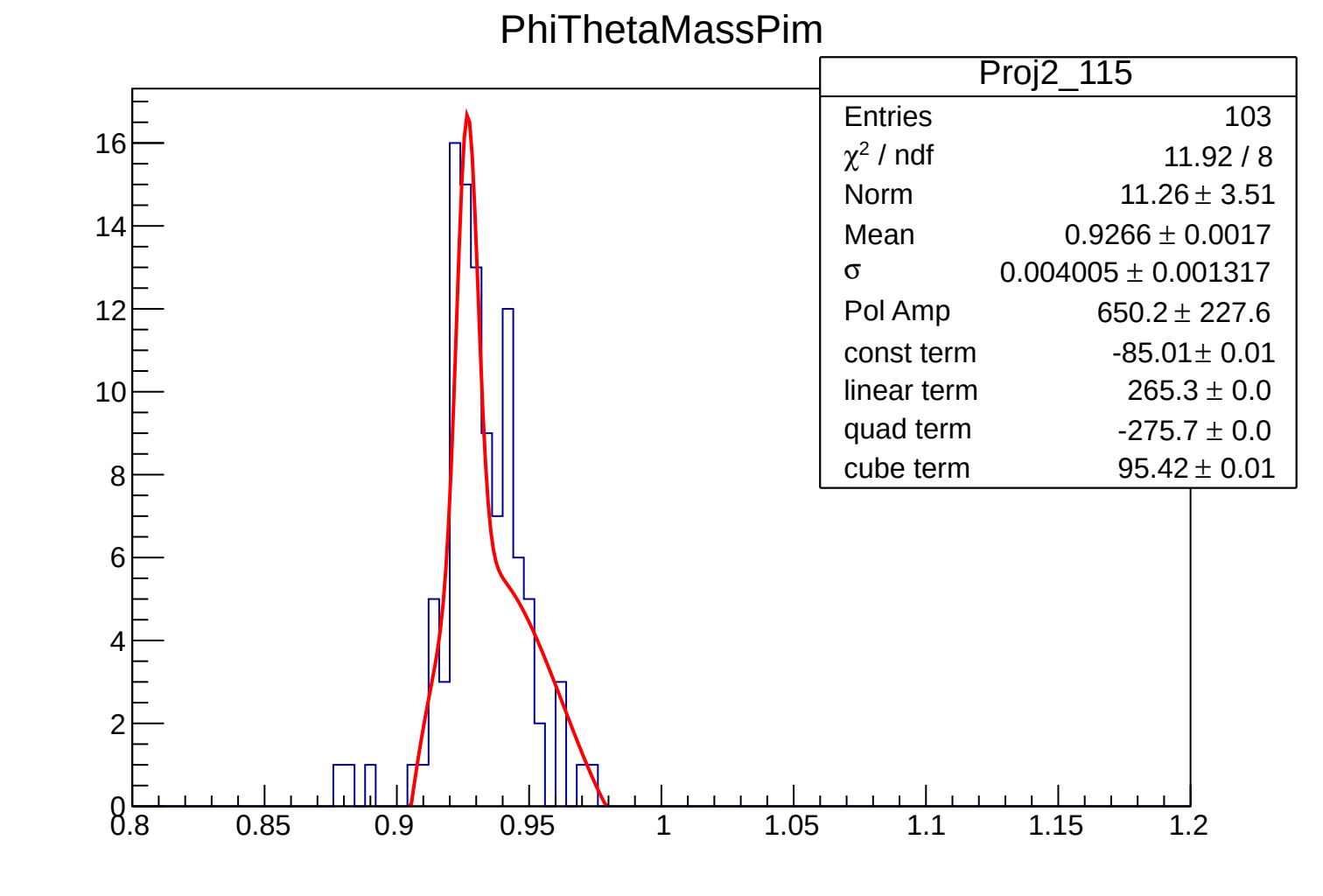

PhiThetaMassPim
Proj2_110
Entries 166
χ² / ndf 3.383 / 10
Norm 24.71± 3.61
Mean 0.9303 ± 0.0008
σ 0.006459 ± 0.000940
Pol Amp 30.41± 14.78
const term -28.98 ± 0.15
linear term 33.38 ± 0.18
quad term 28.51± 0.18
cube term -33.05 ± 0.17
0
5
10
15
20
25
30
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

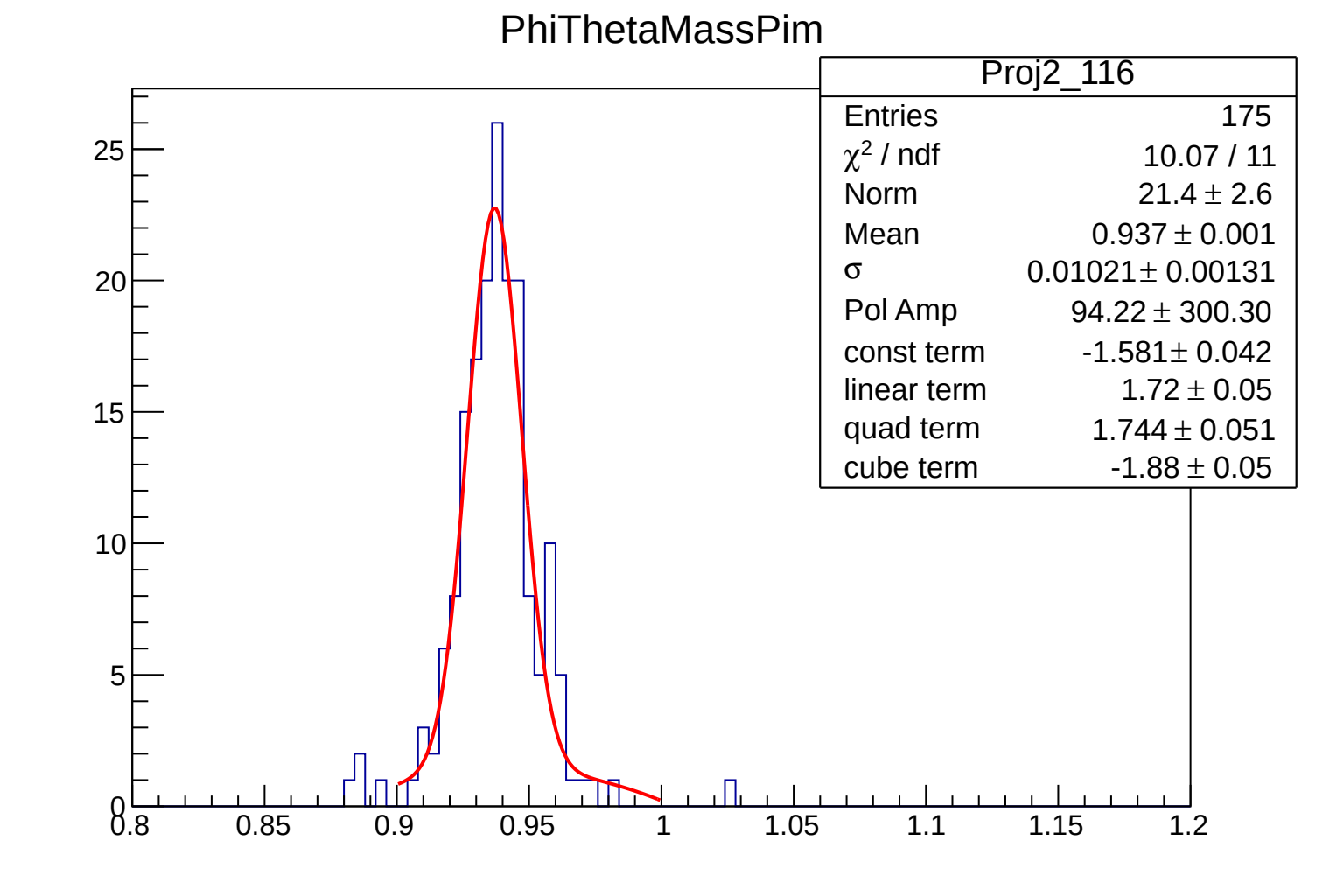

PhiThetaMassPim
Proj2_111
Entries 77
χ² / ndf 9.041 / 8
Norm 10.59 ± 2.21
Mean 0.9284 ± 0.0017
σ -0.006866 ± 0.001650
Pol Amp 1.929 ± 9.168
const term 0.6215 ± 2.0306
linear term 0.3102 ± 2.1856
quad term 0.01429 ± 2.22452
cube term -0.2658 ± 2.1123
0
2
4
6
8
10
12
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

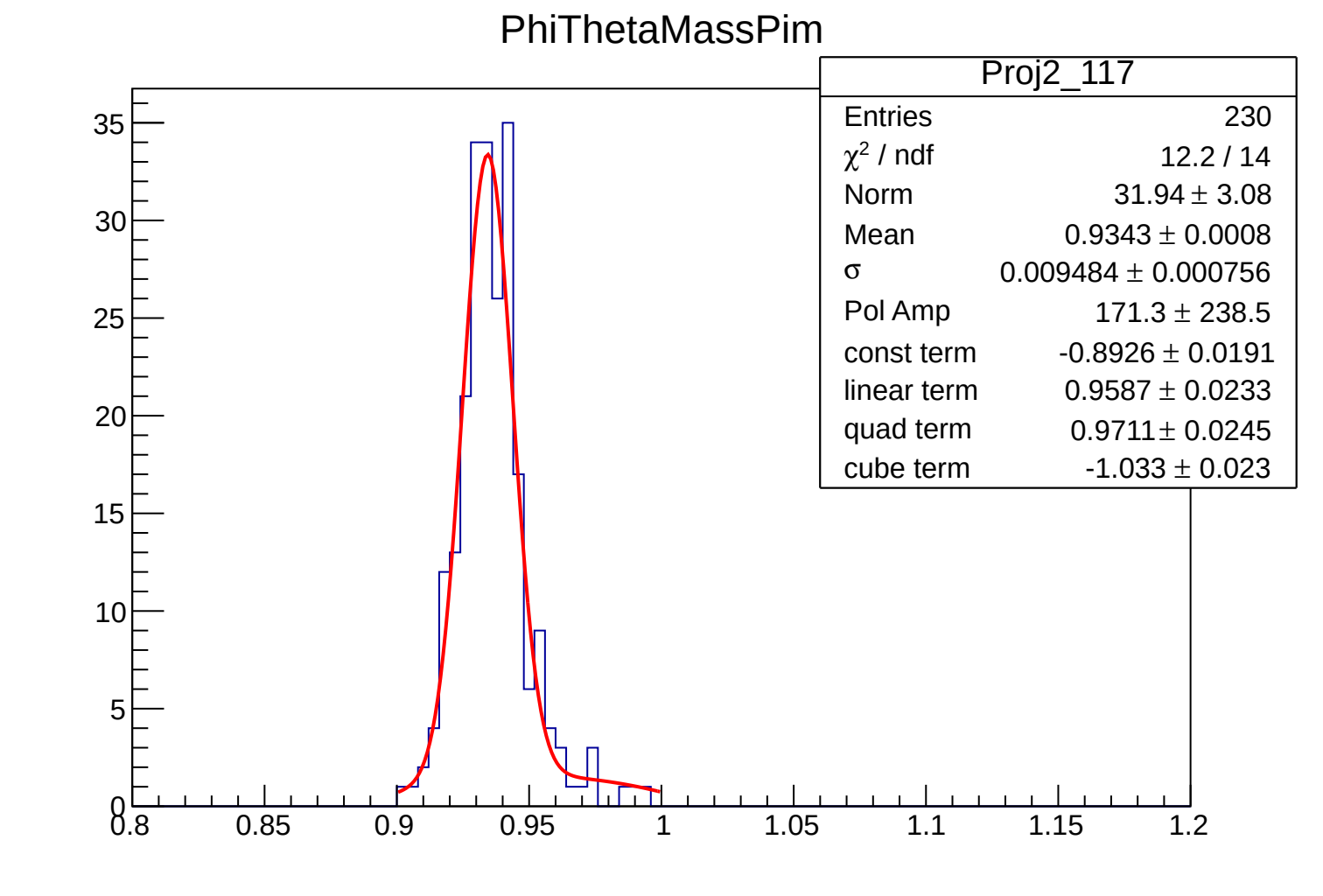

PhiThetaMassPim
Proj2_112
Entries 119
χ² / ndf 14.14 / 9
Norm 16.81 ± 2.90
Mean 0.9348 ± 0.0010
σ 0.007644 ± 0.001354
Pol Amp 6.944 ± 21.667
const term -1.336 ± 4.890
linear term 1.068 ± 3.746
quad term 1.377 ± 4.900
cube term -0.8198 ± 2.8744
0 2 4 6 8 10 12 14 16 18 20 22 24
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

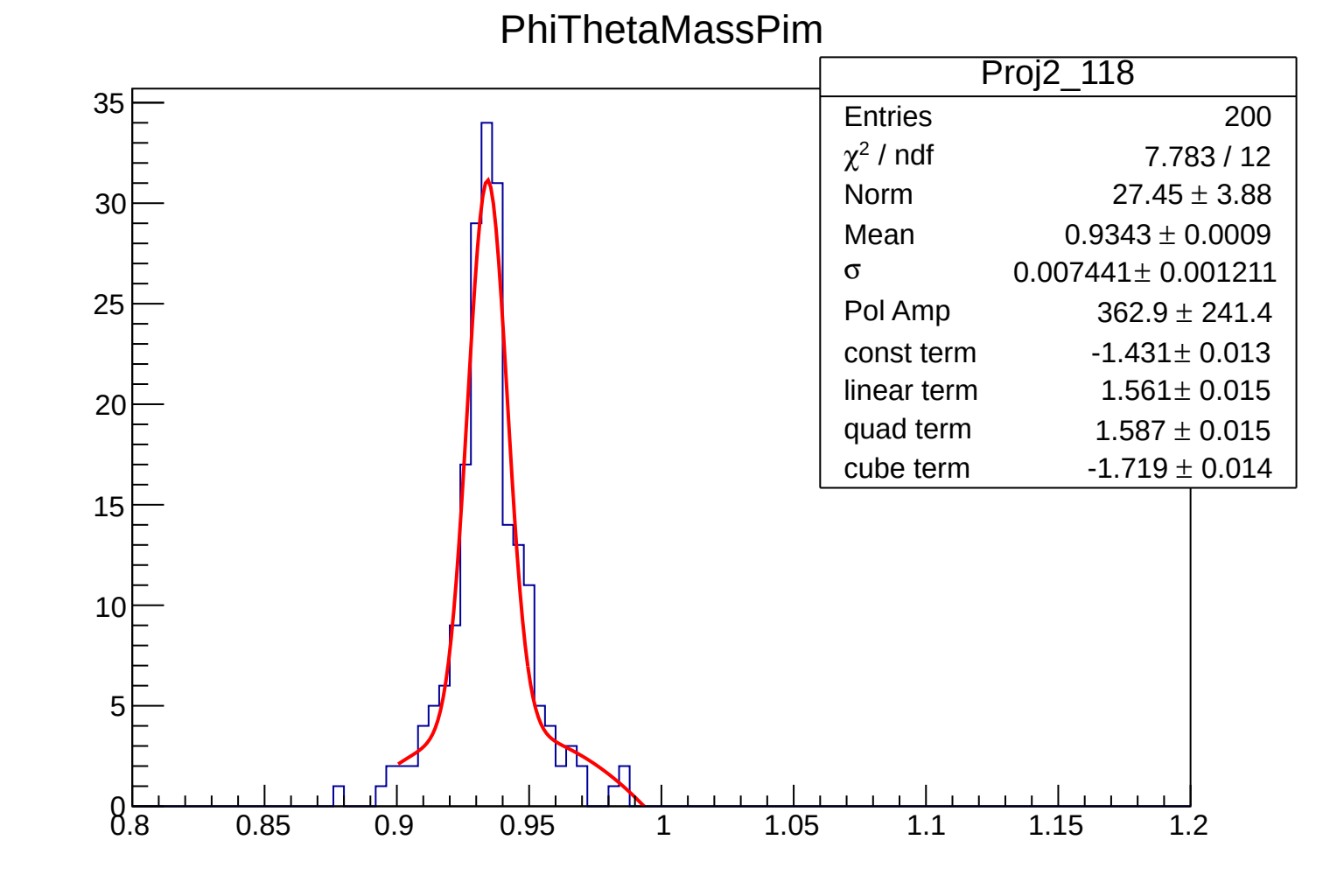

PhiThetaMassPim
Proj2_113
Entries 168
χ² / ndf 10.24 / 11
Norm 22.67 ± 2.61
Mean 0.9348 ± 0.0010
σ 0.008892 ± 0.000787
Pol Amp 235.6 ± 206.5
const term -1.337 ± 0.017
linear term 1.404 ± 0.019
quad term 1.498 ± 0.021
cube term -1.564 ± 0.021
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

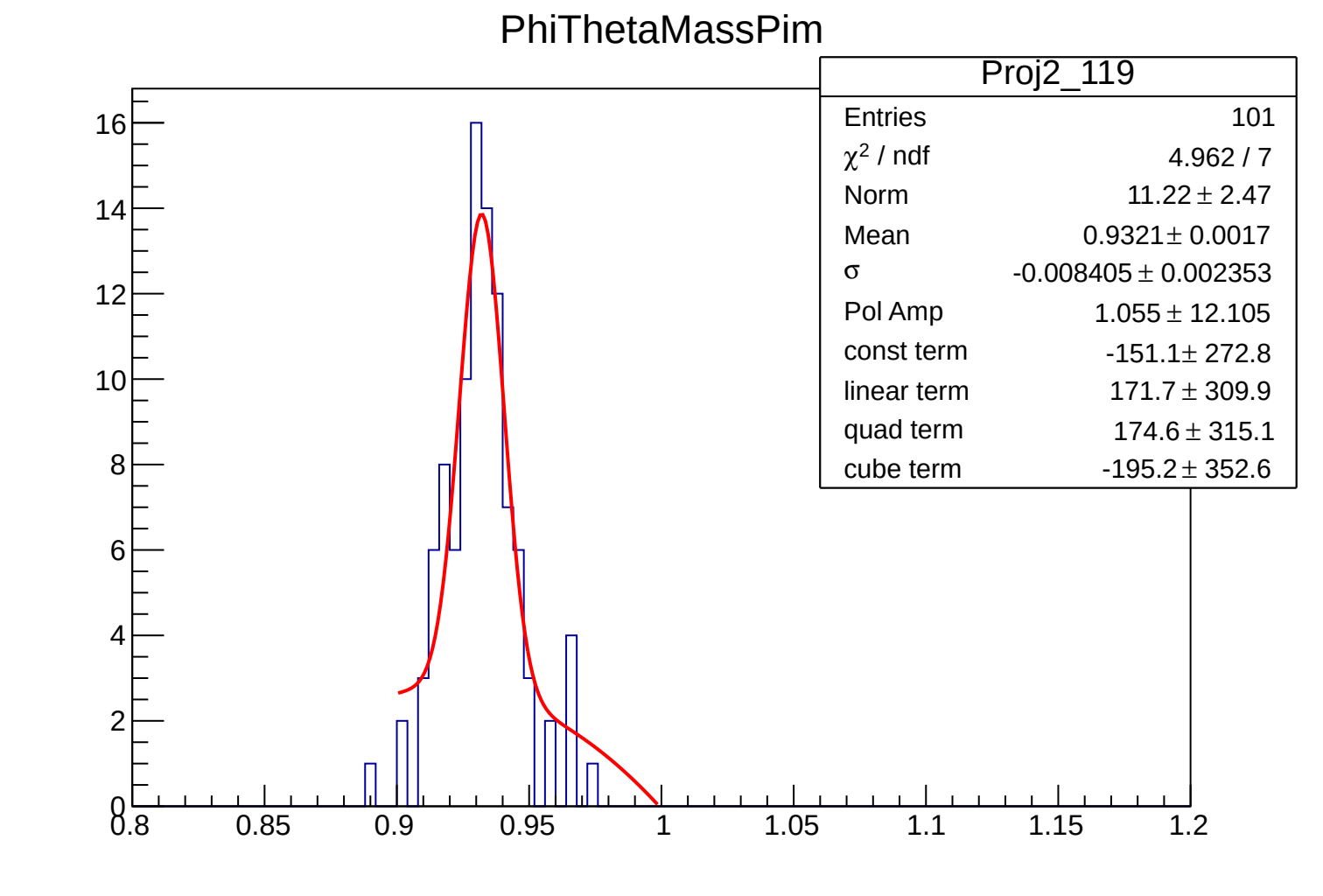

PhiThetaMassPim
Proj2_114
Entries 167
χ² / ndf 14.41 / 11
Norm 18.16 ± 2.44
Mean 0.9312 ± 0.0013
σ 0.01023 ± 0.00128
Pol Amp 150.2 ± 158.2
const term -2.159 ± 0.028
linear term 2.313 ± 0.033
quad term 2.393 ± 0.035
cube term -2.547 ± 0.033
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

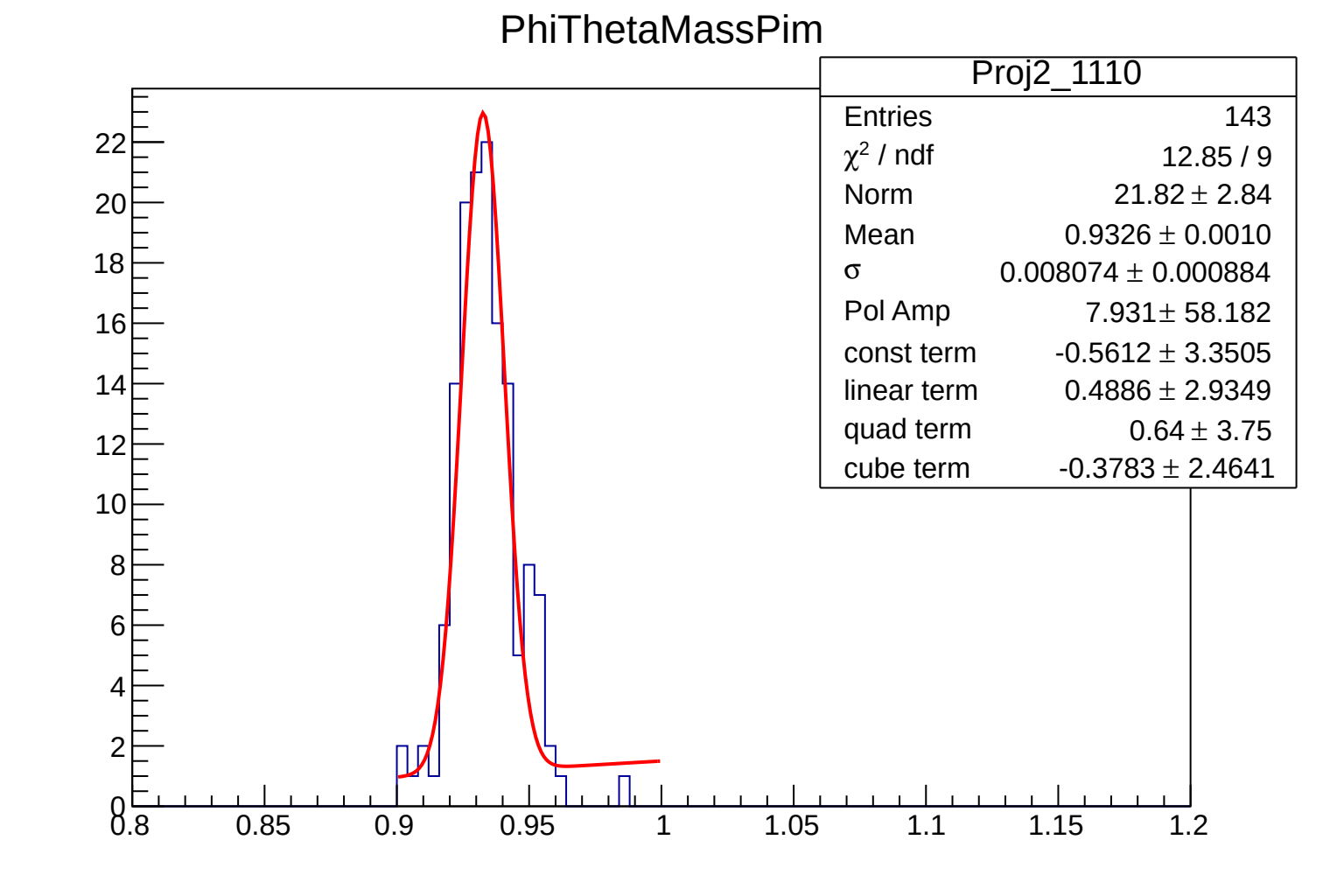

PhiThetaMassPim
Proj2_115
Entries 103
χ² / ndf 11.92 / 8
Norm 11.26 ± 3.51
Mean 0.9266 ± 0.0017
σ 0.004005 ± 0.001317
Pol Amp 650.2 ± 227.6
const term -85.01 ± 0.01
linear term 265.3 ± 0.0
quad term -275.7 ± 0.0
cube term 95.42 ± 0.01
0
2
4
6
8
10
12
14
16
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

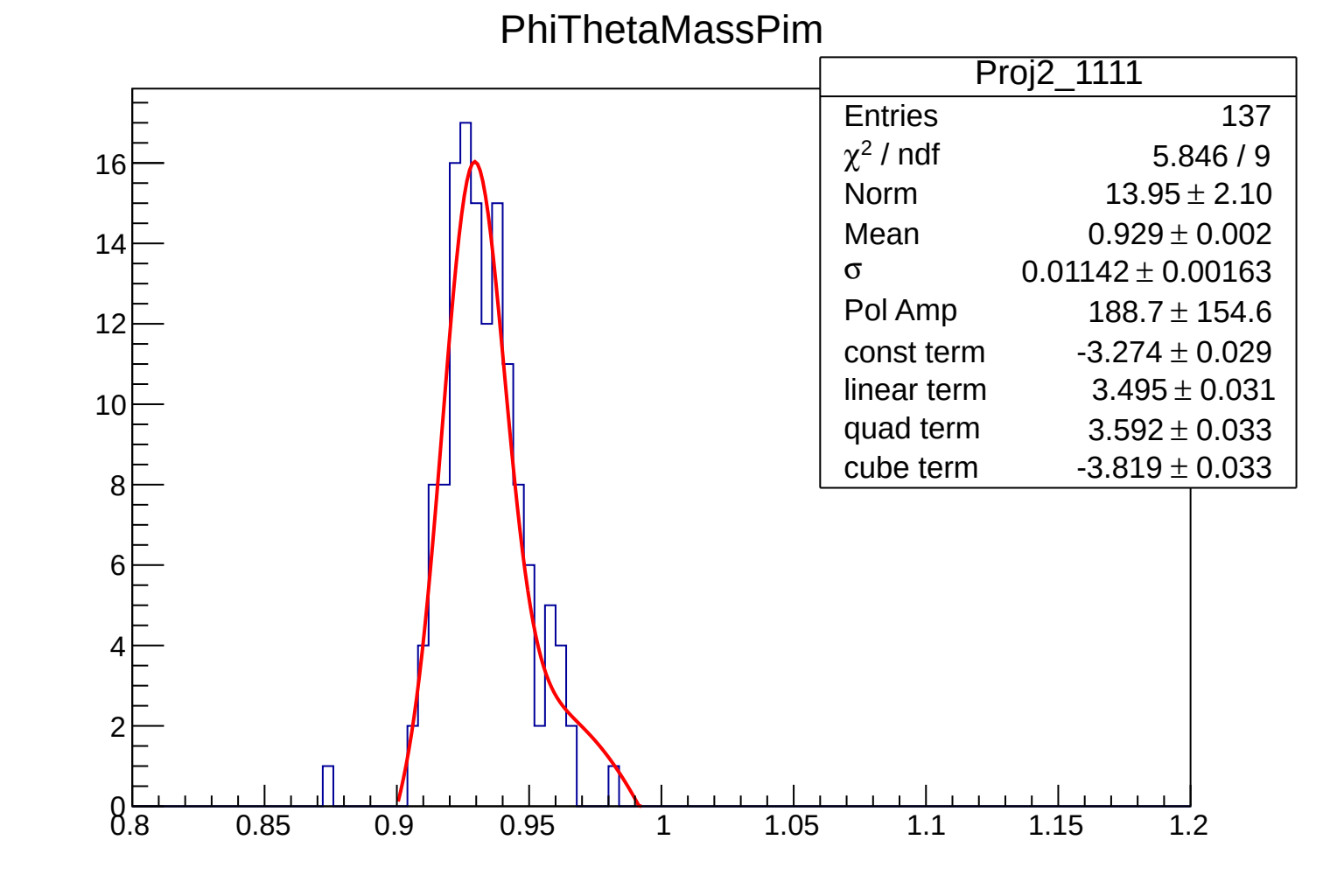

PhiThetaMassPim
Proj2_116
Entries 175
χ² / ndf 10.07 / 11
Norm 21.4 ± 2.6
Mean 0.937 ± 0.001
σ 0.01021 ± 0.00131
Pol Amp 94.22 ± 300.30
const term -1.581 ± 0.042
linear term 1.72 ± 0.05
quad term 1.744 ± 0.051
cube term -1.88 ± 0.05
0
5
10
15
20
25
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

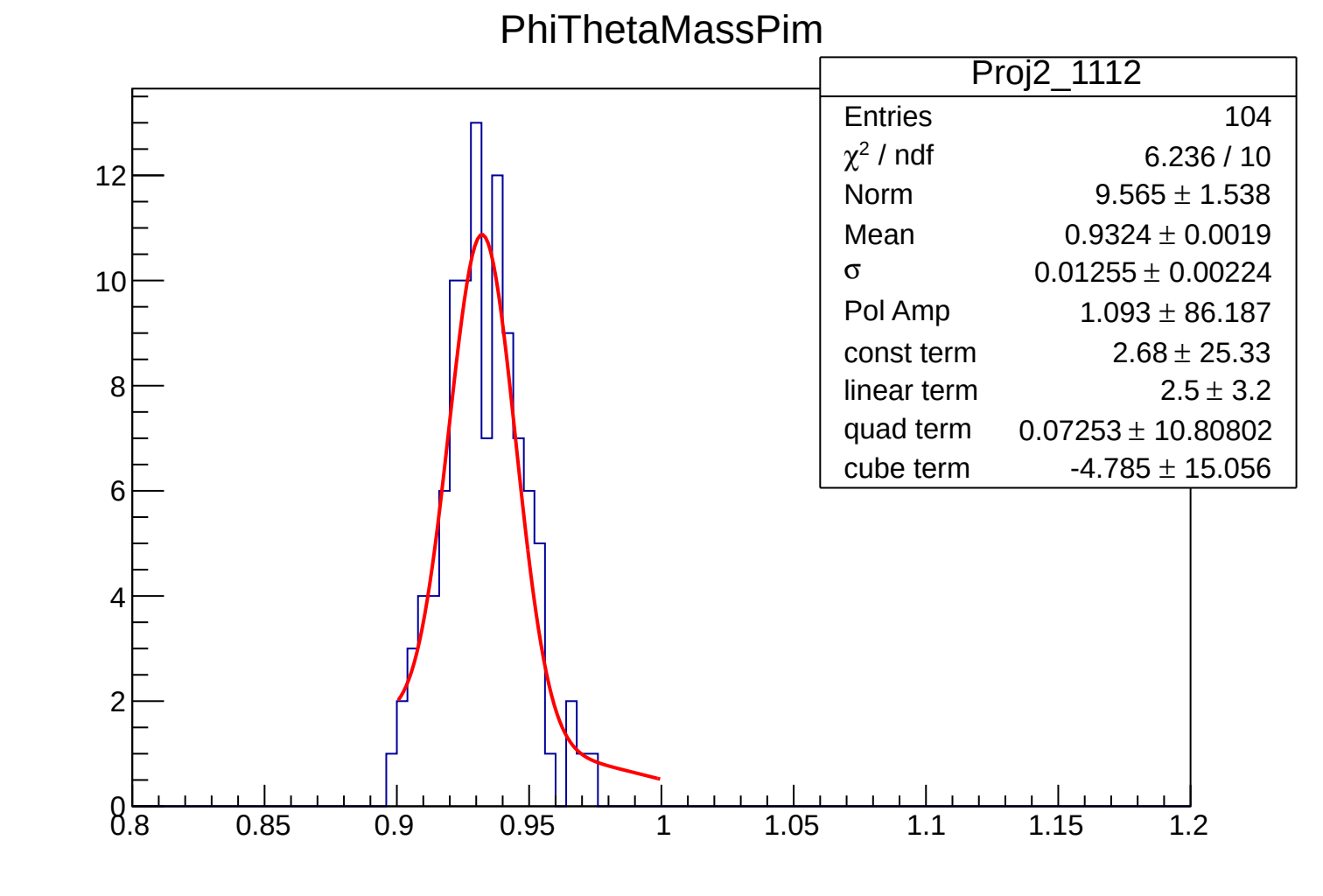

PhiThetaMassPim
Proj2_117
Entries 230
χ² / ndf 12.2 / 14
Norm 31.94 ± 3.08
Mean 0.9343 ± 0.0008
σ 0.009484 ± 0.000756
Pol Amp 171.3 ± 238.5
const term -0.8926 ± 0.0191
linear term 0.9587 ± 0.0233
quad term 0.9711 ± 0.0245
cube term -1.033 ± 0.023
0
5
10
15
20
25
30
35
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

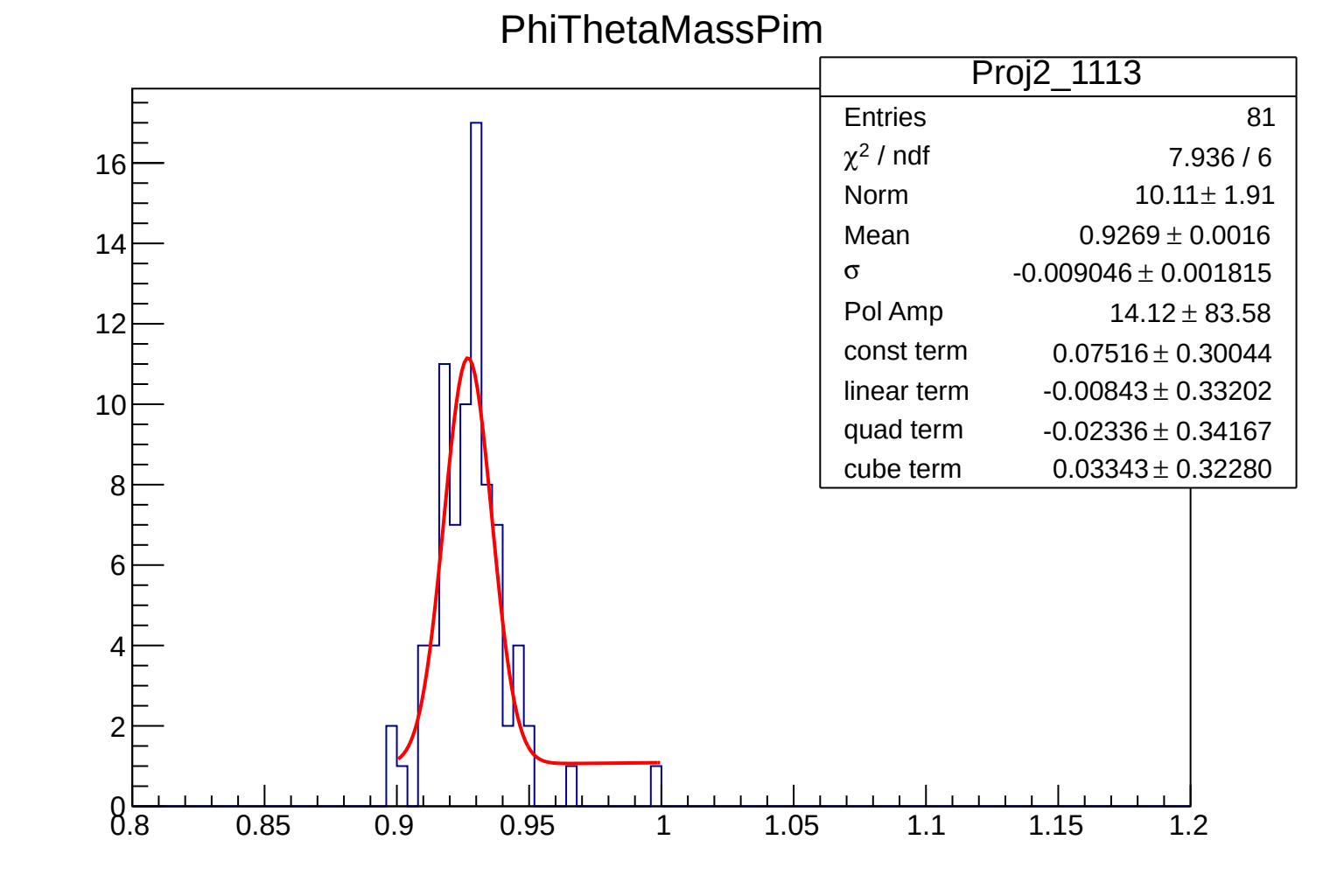

PhiThetaMassPim
Proj2_118
Entries 200
χ² / ndf 7.783 / 12
Norm 27.45 ± 3.88
Mean 0.9343 ± 0.0009
σ 0.007441± 0.001211
Pol Amp 362.9 ± 241.4
const term -1.431± 0.013
linear term 1.561± 0.015
quad term 1.587 ± 0.015
cube term -1.719 ± 0.014
35
30
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

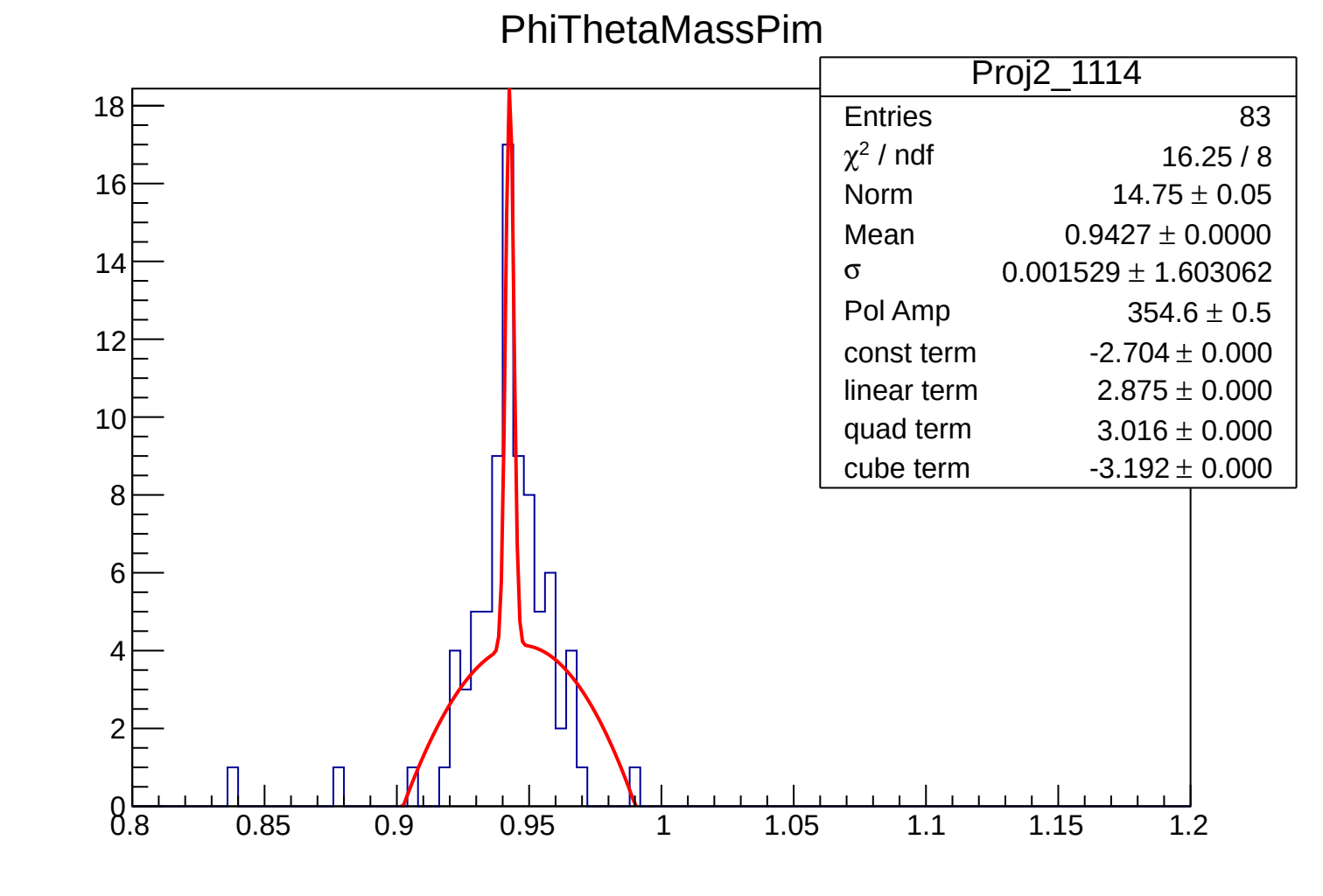

PhiThetaMassPim
Proj2_119
Entries 101
χ² / ndf 4.962 / 7
Norm 11.22 ± 2.47
Mean 0.9321 ± 0.0017
σ -0.008405 ± 0.002353
Pol Amp 1.055 ± 12.105
const term -151.1 ± 272.8
linear term 171.7 ± 309.9
quad term 174.6 ± 315.1
cube term -195.2 ± 352.6
0
2
4
6
8
10
12
14
16
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

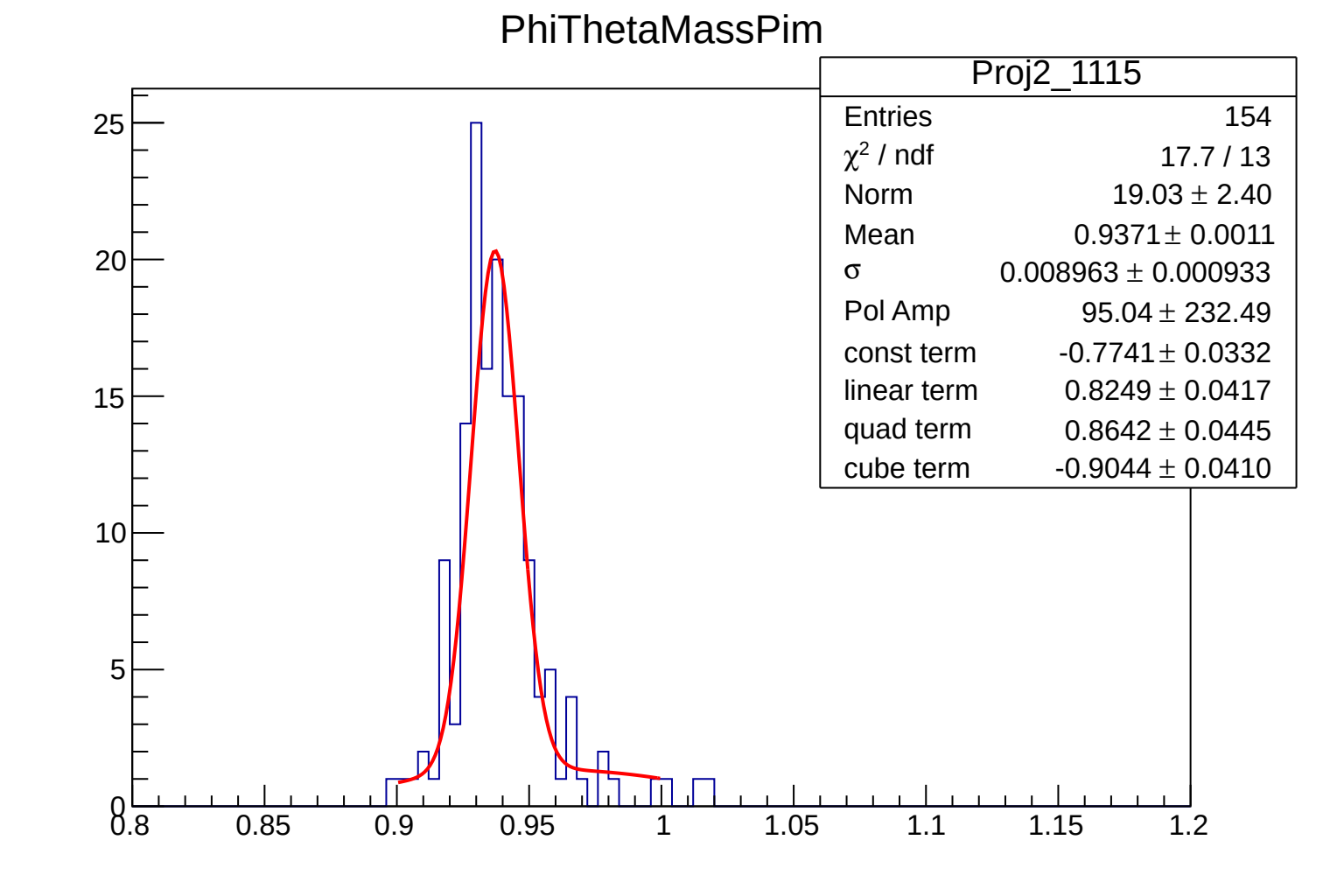

PhiThetaMassPim
Proj2_1110
Entries 143
χ² / ndf 12.85 / 9
Norm 21.82 ± 2.84
Mean 0.9326 ± 0.0010
σ 0.008074 ± 0.000884
Pol Amp 7.931 ± 58.182
const term -0.5612 ± 3.3505
linear term 0.4886 ± 2.9349
quad term 0.64 ± 3.75
cube term -0.3783 ± 2.4641
0 2 4 6 8 10 12 14 16 18 20 22
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2

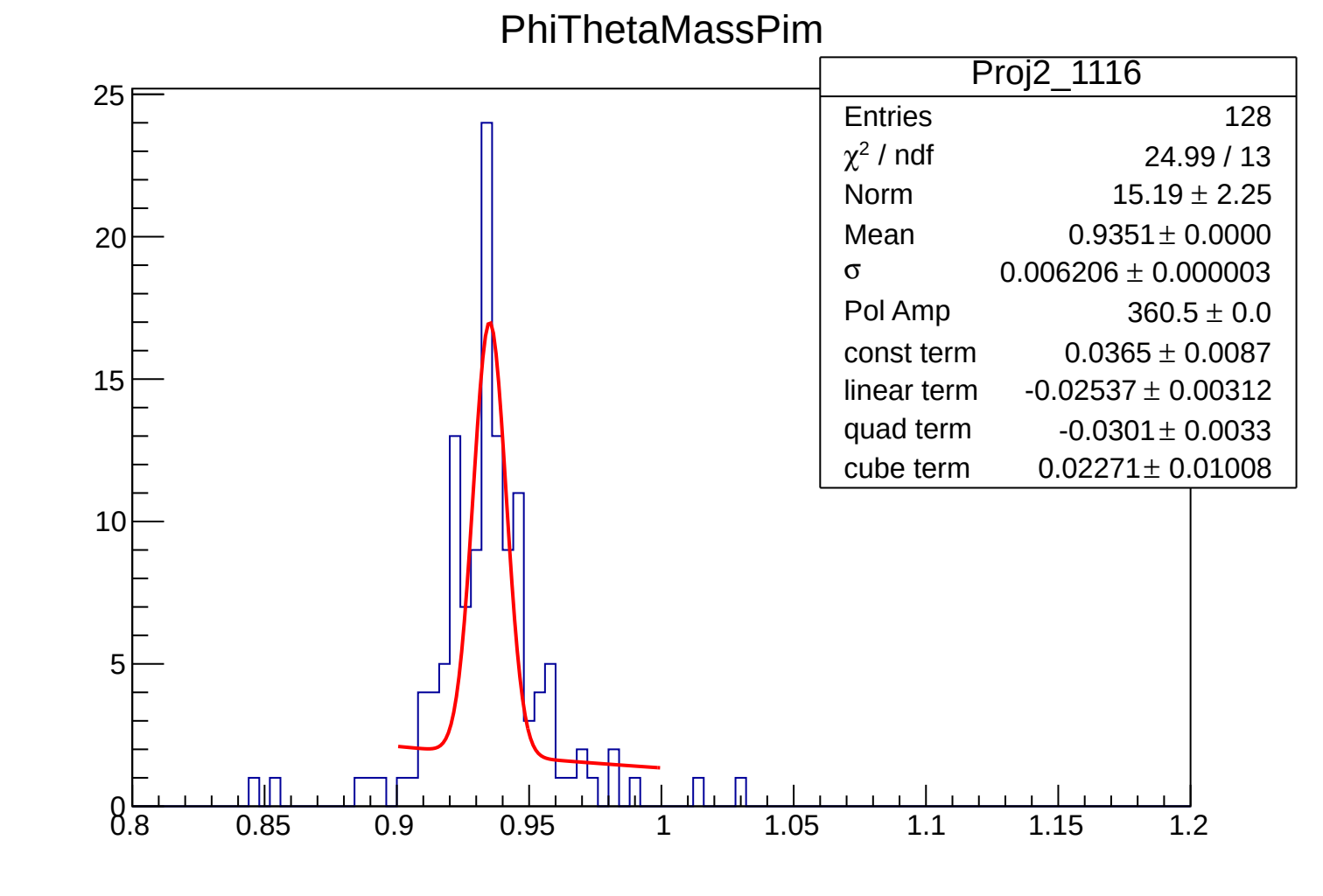

PhiThetaMassPim
Proj2_1111
Entries 137
χ² / ndf 5.846 / 9
Norm 13.95 ± 2.10
Mean 0.929 ± 0.002
σ 0.01142 ± 0.00163
Pol Amp 188.7 ± 154.6
const term -3.274 ± 0.029
linear term 3.495 ± 0.031
quad term 3.592 ± 0.033
cube term -3.819 ± 0.033
0
2
4
6
8
10
12
14
16
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

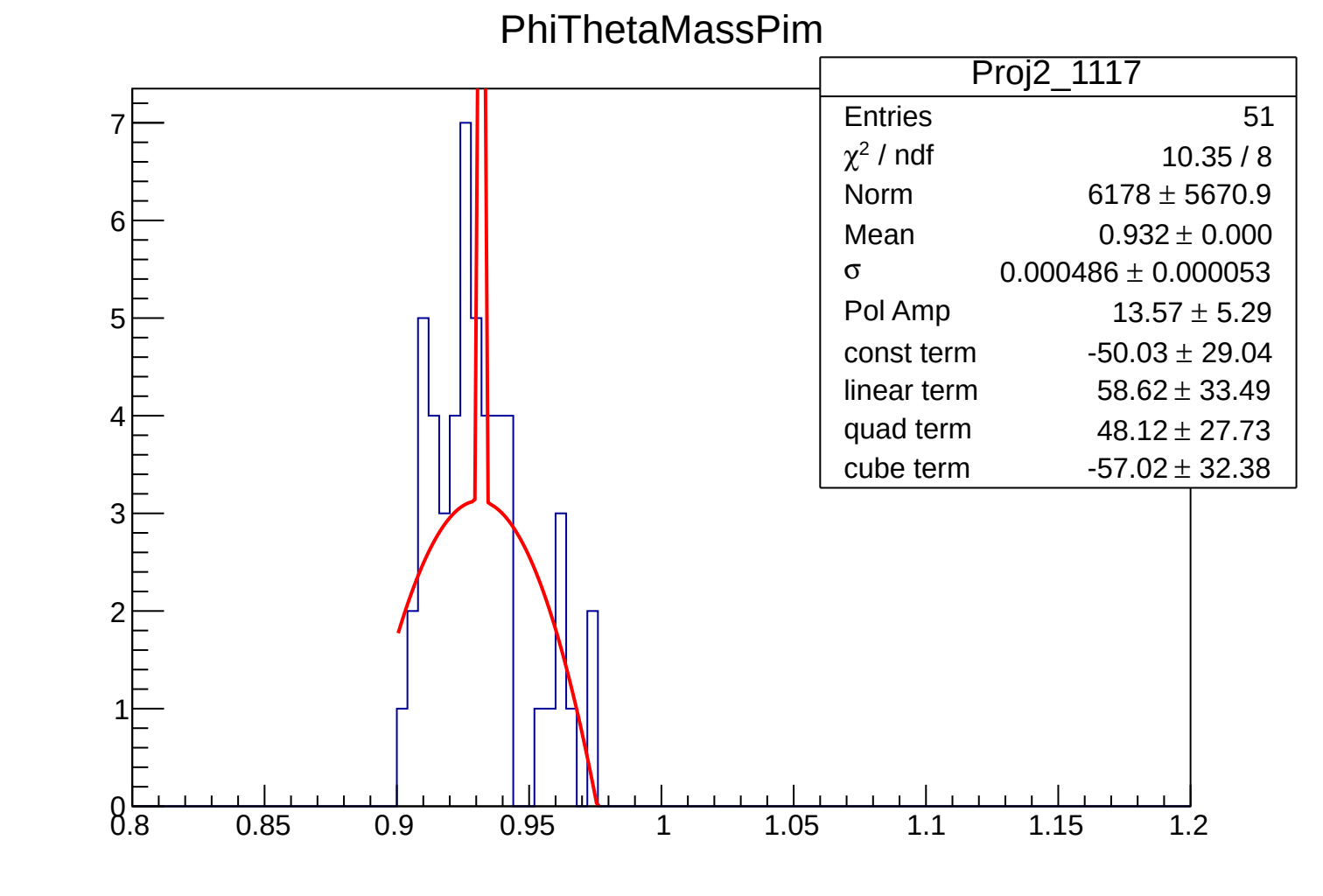

PhiThetaMassPim
Proj2_1112
Entries 104
χ² / ndf 6.236 / 10
Norm 9.565 ± 1.538
Mean 0.9324 ± 0.0019
σ 0.01255 ± 0.00224
Pol Amp 1.093 ± 86.187
const term 2.68 ± 25.33
linear term 2.5 ± 3.2
quad term 0.07253 ± 10.80802
cube term -4.785 ± 15.056
0
2
4
6
8
10
12
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

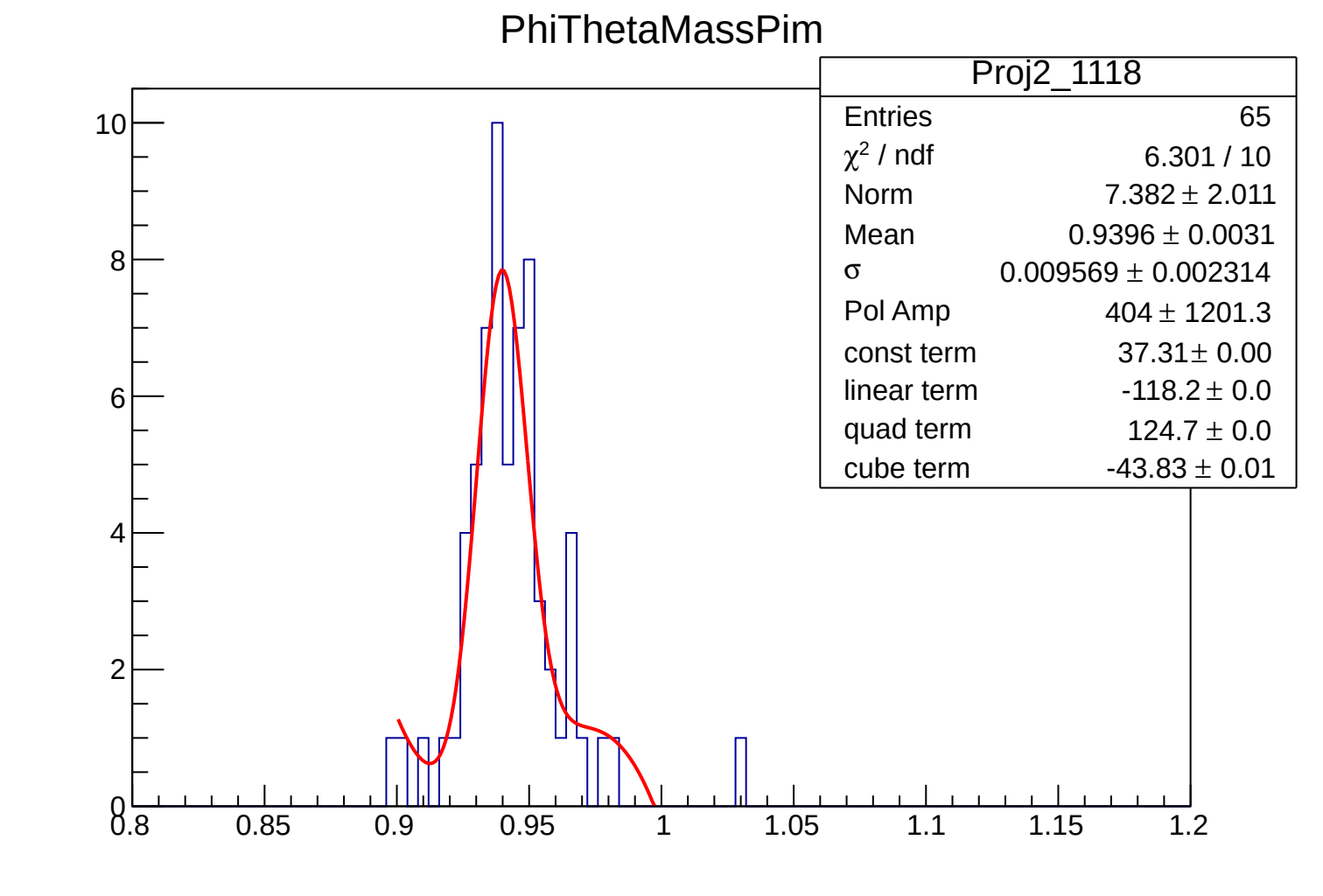

PhiThetaMassPim
Proj2_1113
Entries 81
χ² / ndf 7.936 / 6
Norm 10.11 ± 1.91
Mean 0.9269 ± 0.0016
σ -0.009046 ± 0.001815
Pol Amp 14.12 ± 83.58
const term 0.07516 ± 0.30044
linear term -0.00843 ± 0.33202
quad term -0.02336 ± 0.34167
cube term 0.03343 ± 0.32280
0
2
4
6
8
10
12
14
16
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

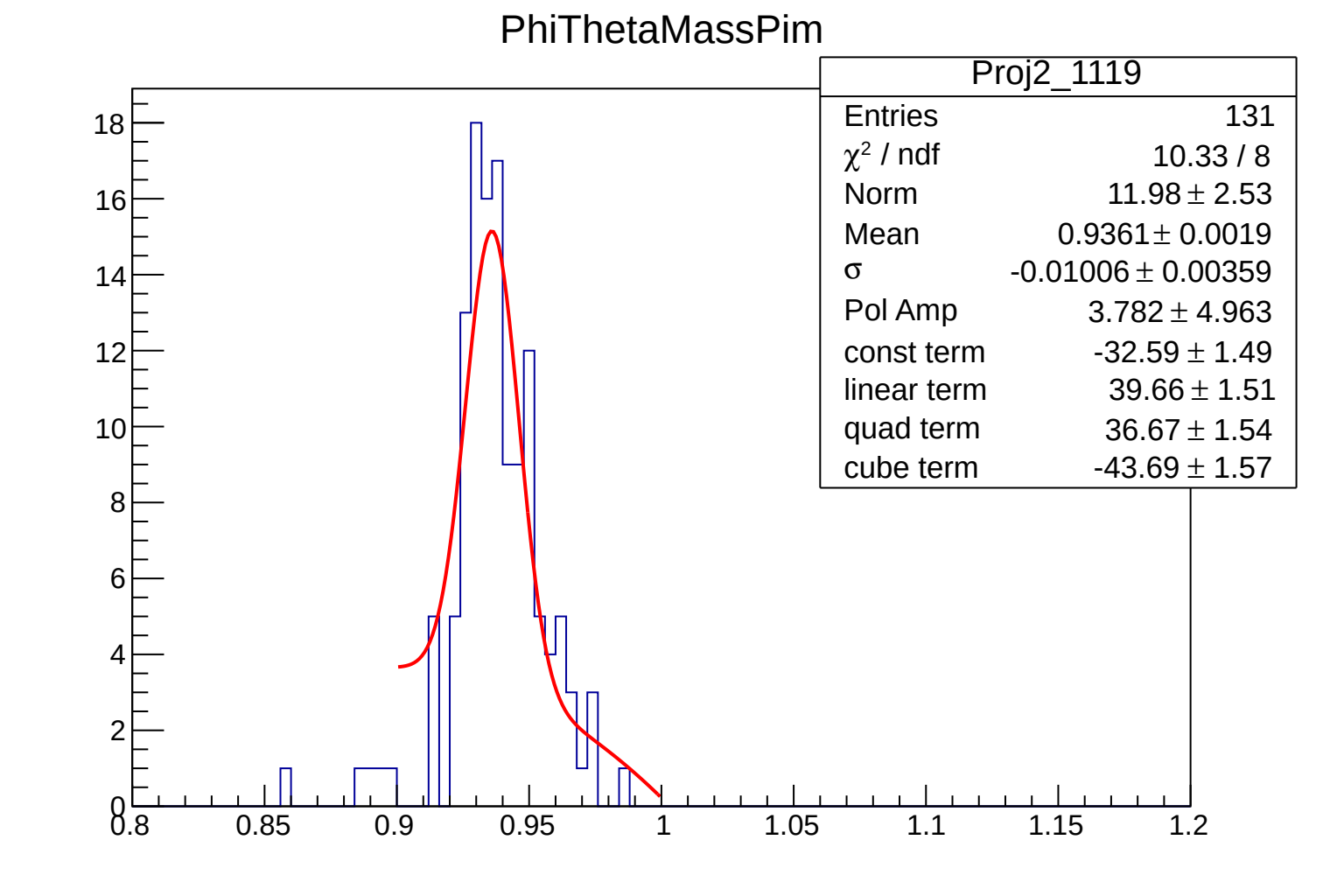

PhiThetaMassPim
Proj2_1114
Entries 83
χ² / ndf 16.25 / 8
Norm 14.75 ± 0.05
Mean 0.9427 ± 0.0000
σ 0.001529 ± 1.603062
Pol Amp 354.6 ± 0.5
const term -2.704 ± 0.000
linear term 2.875 ± 0.000
quad term 3.016 ± 0.000
cube term -3.192 ± 0.000
0
2
4
6
8
10
12
14
16
18
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

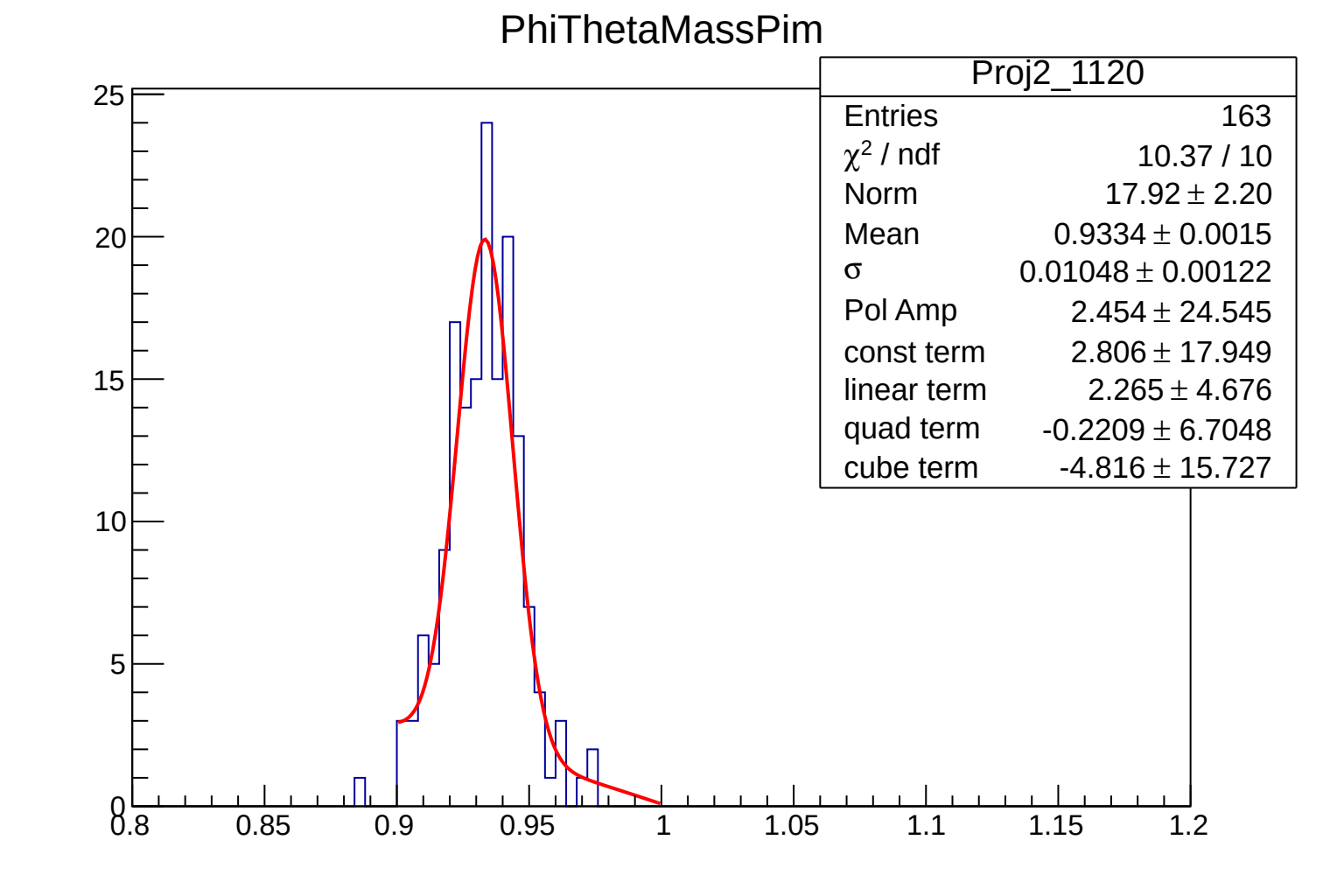

PhiThetaMassPim
Proj2_1115
Entries 154
χ² / ndf 17.7 / 13
Norm 19.03 ± 2.40
Mean 0.9371 ± 0.0011
σ 0.008963 ± 0.000933
Pol Amp 95.04 ± 232.49
const term -0.7741 ± 0.0332
linear term 0.8249 ± 0.0417
quad term 0.8642 ± 0.0445
cube term -0.9044 ± 0.0410
0
5
10
15
20
25
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

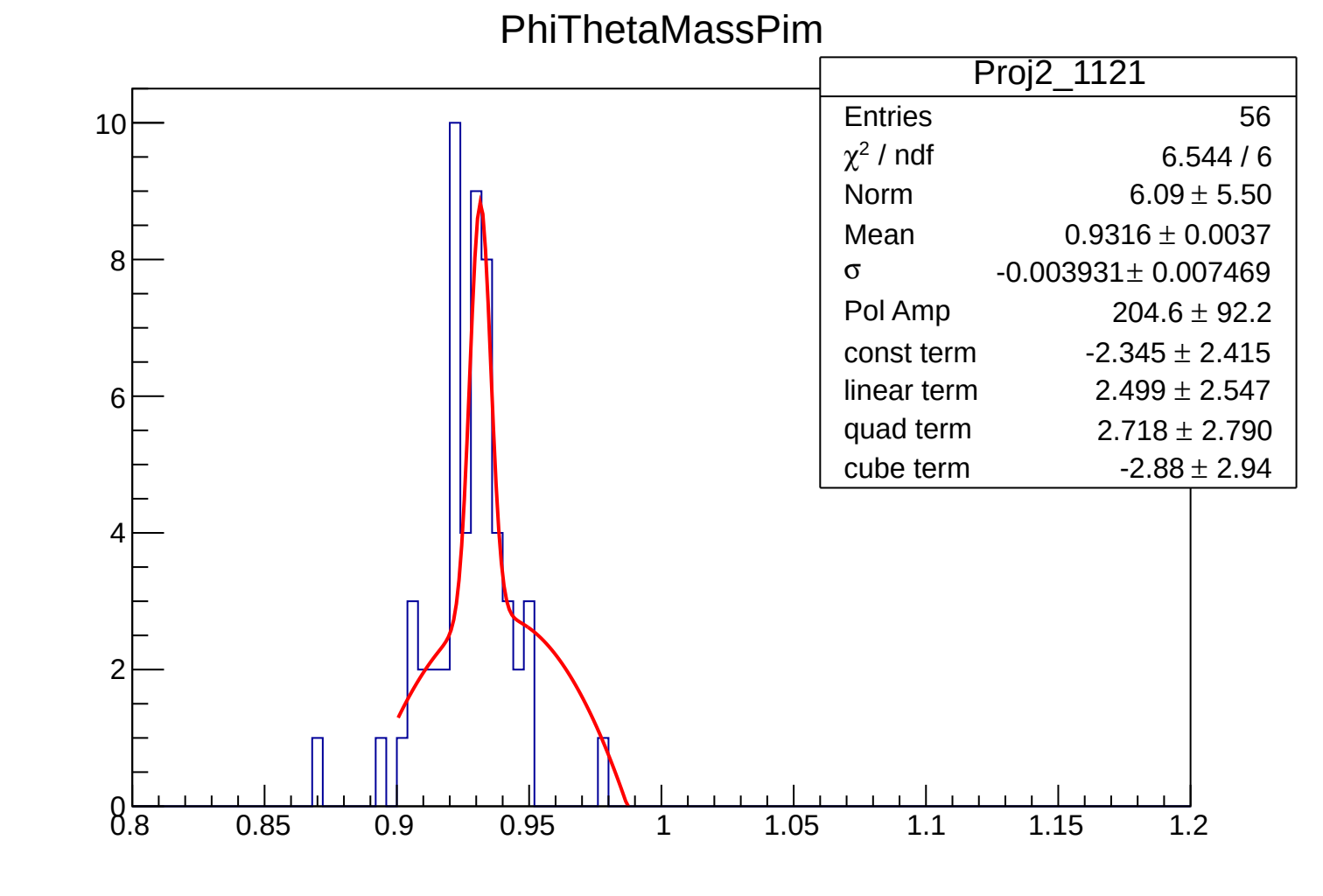

PhiThetaMassPim
Proj2_1116
Entries 128
χ² / ndf 24.99 / 13
Norm 15.19 ± 2.25
Mean 0.9351 ± 0.0000
σ 0.006206 ± 0.000003
Pol Amp 360.5 ± 0.0
const term 0.0365 ± 0.0087
linear term -0.02537 ± 0.00312
quad term -0.0301 ± 0.0033
cube term 0.02271 ± 0.01008
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

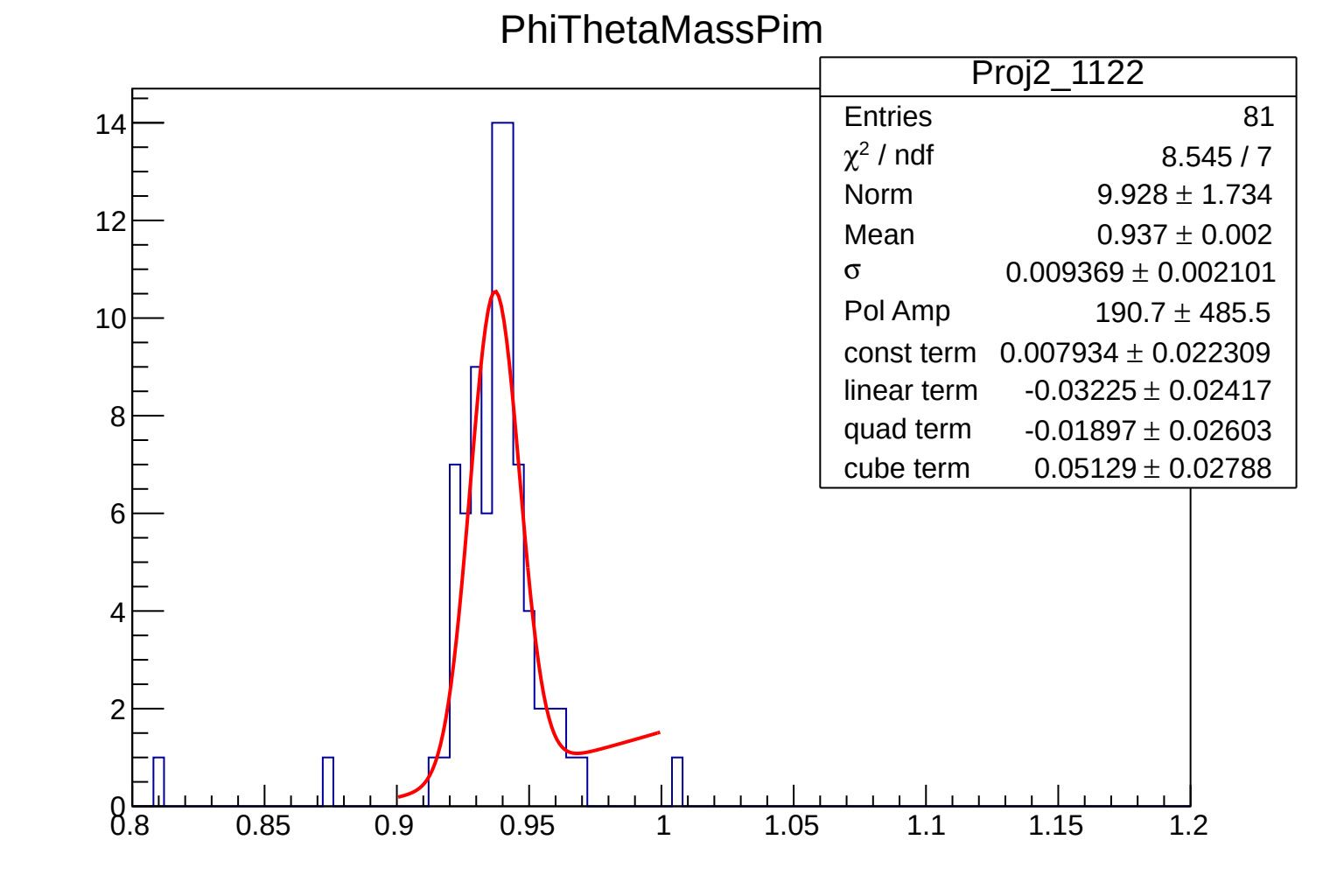

PhiThetaMassPim
Proj2_1117
Entries 51
χ² / ndf 10.35 / 8
Norm 6178 ± 5670.9
Mean 0.932 ± 0.000
σ 0.000486 ± 0.000053
Pol Amp 13.57 ± 5.29
const term -50.03 ± 29.04
linear term 58.62 ± 33.49
quad term 48.12 ± 27.73
cube term -57.02 ± 32.38
0
1
2
3
4
5
6
7
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_1118
Entries 65
χ² / ndf 6.301 / 10
Norm 7.382 ± 2.011
Mean 0.9396 ± 0.0031
σ 0.009569 ± 0.002314
Pol Amp 404 ± 1201.3
const term 37.31 ± 0.00
linear term -118.2 ± 0.0
quad term 124.7 ± 0.0
cube term -43.83 ± 0.01
0
2
4
6
8
10
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_1119
Entries 131
χ² / ndf 10.33 / 8
Norm 11.98 ± 2.53
Mean 0.9361 ± 0.0019
σ -0.01006 ± 0.00359
Pol Amp 3.782 ± 4.963
const term -32.59 ± 1.49
linear term 39.66 ± 1.51
quad term 36.67 ± 1.54
cube term -43.69 ± 1.57
0
2
4
6
8
10
12
14
16
18
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_1120
Entries 163
χ² / ndf 10.37 / 10
Norm 17.92 ± 2.20
Mean 0.9334 ± 0.0015
σ 0.01048 ± 0.00122
Pol Amp 2.454 ± 24.545
const term 2.806 ± 17.949
linear term 2.265 ± 4.676
quad term -0.2209 ± 6.7048
cube term -4.816 ± 15.727
25
20
15
10
5
0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_1121
Entries 56
χ² / ndf 6.544 / 6
Norm 6.09 ± 5.50
Mean 0.9316 ± 0.0037
σ -0.003931 ± 0.007469
Pol Amp 204.6 ± 92.2
const term -2.345 ± 2.415
linear term 2.499 ± 2.547
quad term 2.718 ± 2.790
cube term -2.88 ± 2.94
0
2
4
6
8
10
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_1122
Entries 81
χ² / ndf 8.545 / 7
Norm 9.928 ± 1.734
Mean 0.937 ± 0.002
σ 0.009369 ± 0.002101
Pol Amp 190.7 ± 485.5
const term 0.007934 ± 0.022309
linear term -0.03225 ± 0.02417
quad term -0.01897 ± 0.02603
cube term 0.05129 ± 0.02788
0
2
4
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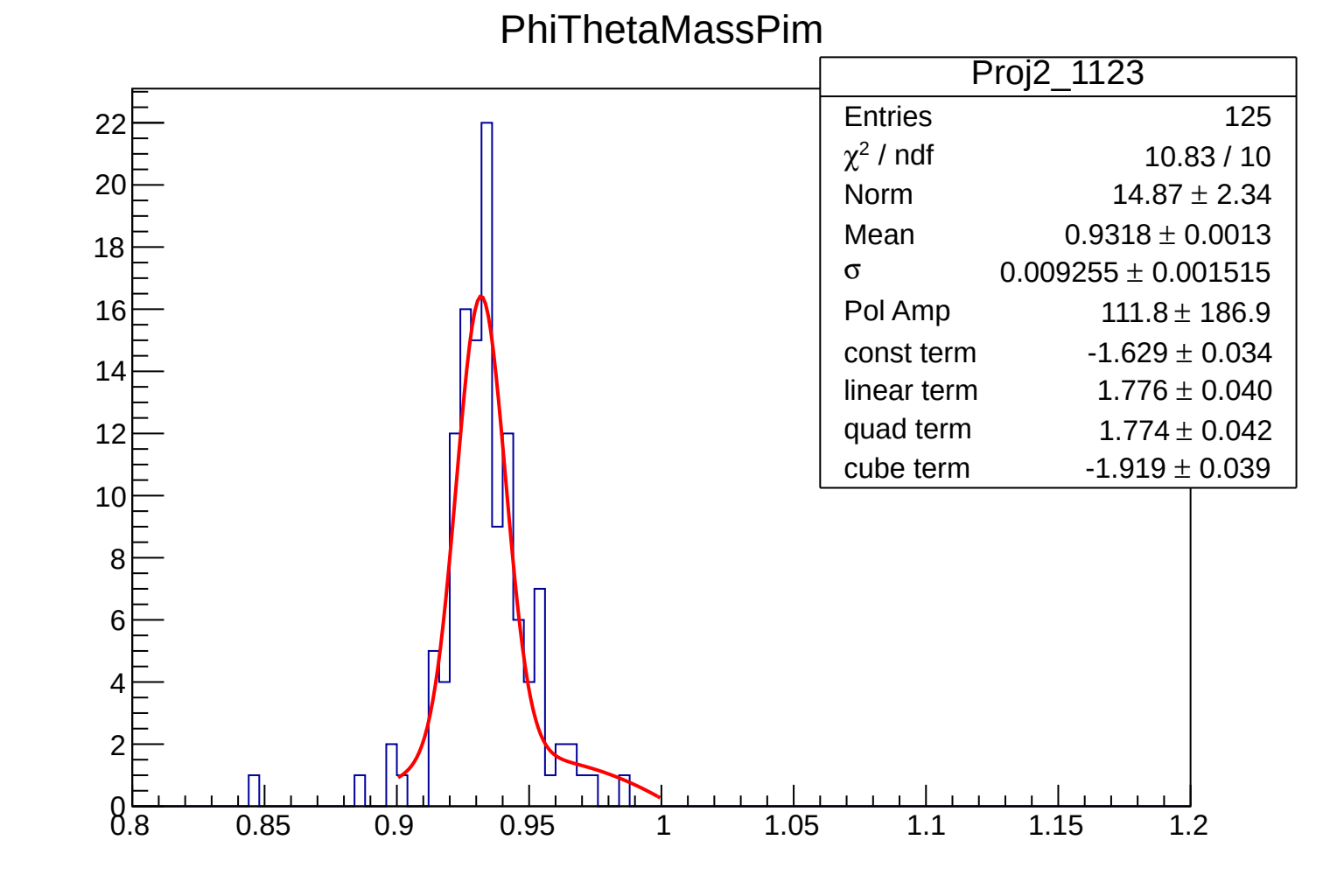
14
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2


PhiThetaMassPim
Proj2_1123
Entries 125
χ² / ndf 10.83 / 10
Norm 14.87 ± 2.34
Mean 0.9318 ± 0.0013
σ 0.009255 ± 0.001515
Pol Amp 111.8 ± 186.9
const term -1.629 ± 0.034
linear term 1.776 ± 0.040
quad term 1.774 ± 0.042
cube term -1.919 ± 0.039
0 2 4 6 8 10 12 14 16 18 20 22
0.8 0.85 0.9 0.95 1 1.05 1.1 1.15 1.2