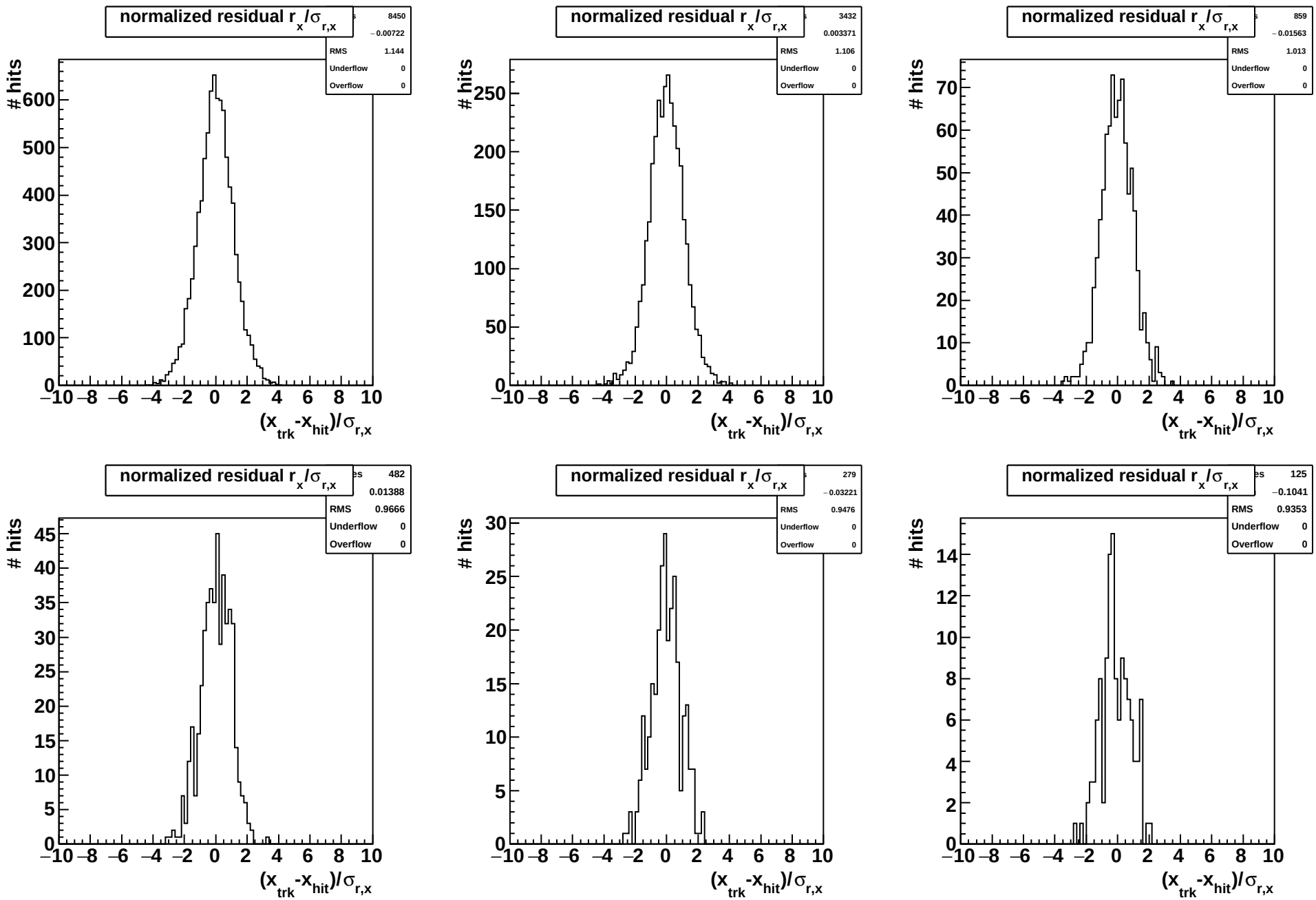
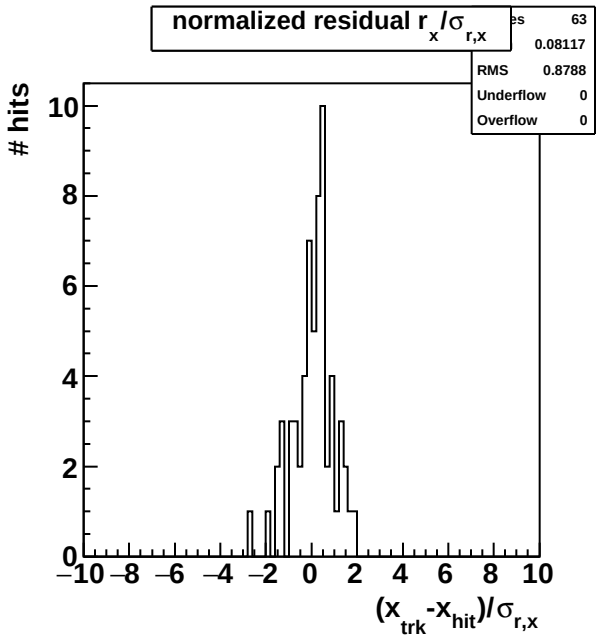
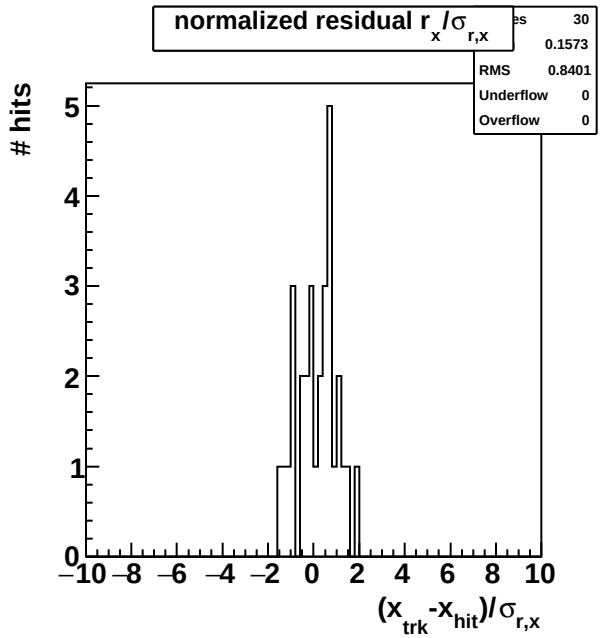
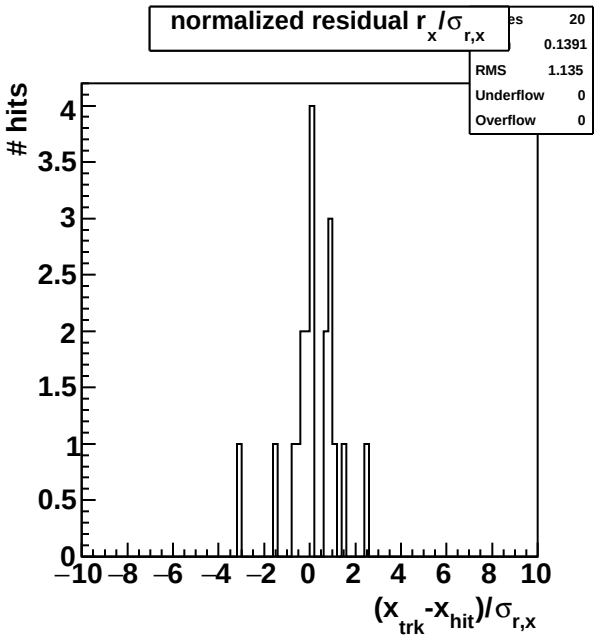
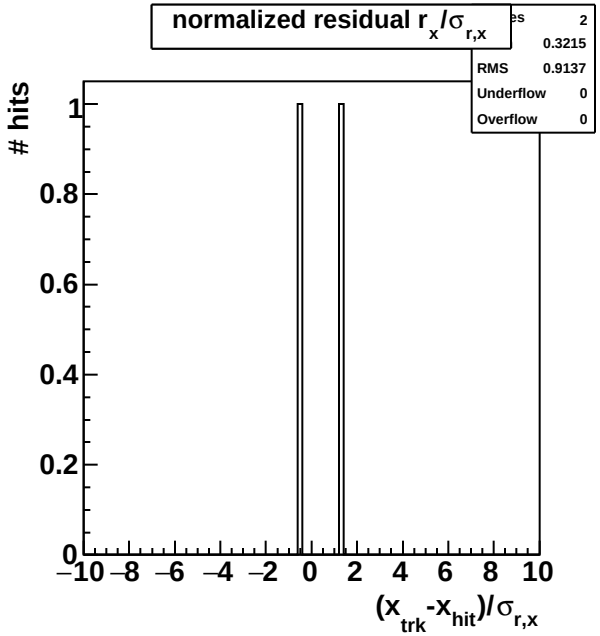
Sector_1/ -- BpixLayer1Out

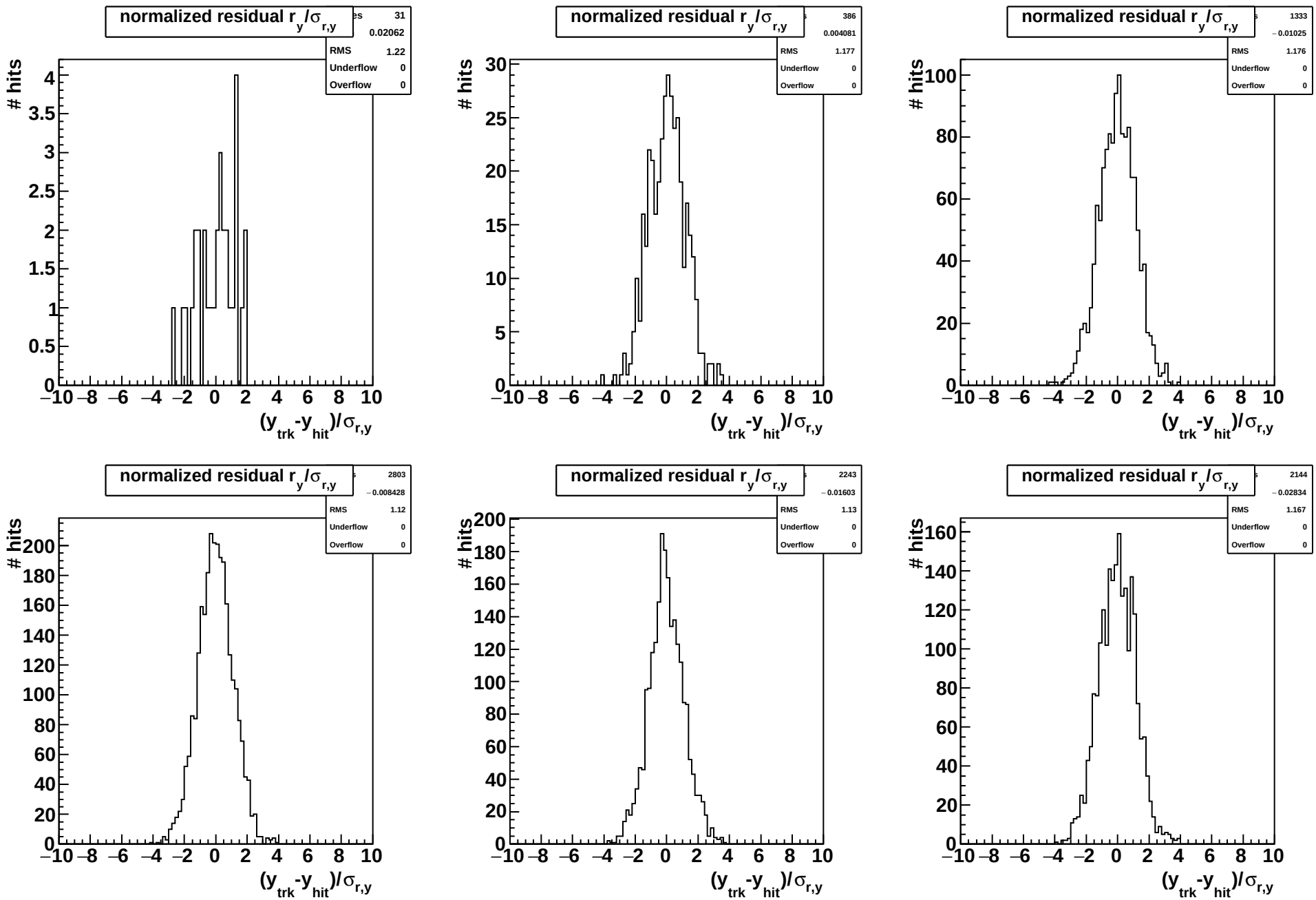

normalized residual $r_x/\sigma_{r,x}$
8450
−0.00722
RMS 1.144
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
3432
0.003371
RMS 1.106
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
859
−0.01563
RMS 1.013
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
482
0.01388
RMS 0.9666
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
279
−0.03221
RMS 0.9476
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
125
−0.1041
RMS 0.9353
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

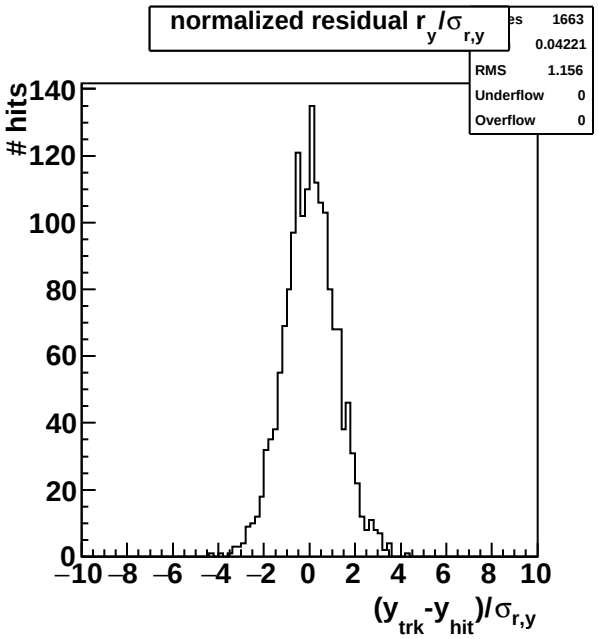

normalized residual $r_x/\sigma_{r,x}$
63
0.08117
RMS 0.8788
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

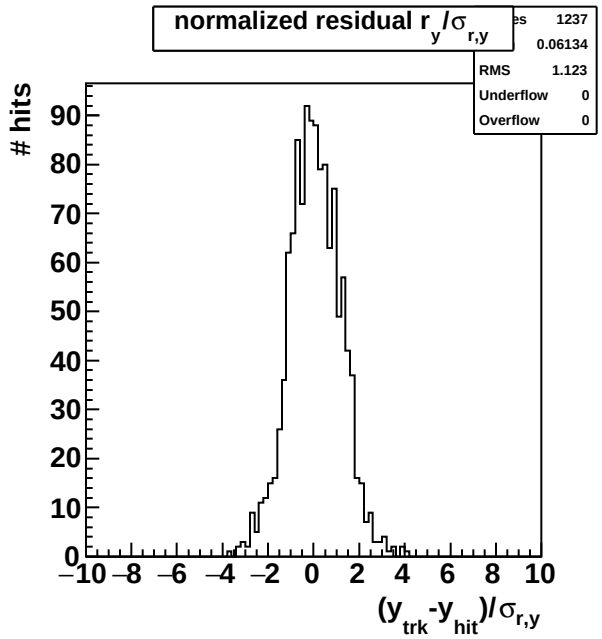

normalized residual $r_x/\sigma_{r,x}$
30
0.1573
RMS 0.8401
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

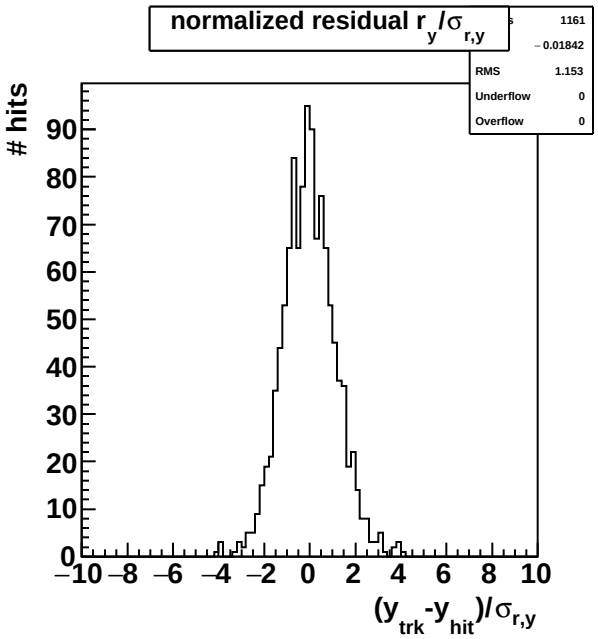

normalized residual $r_x/\sigma_{r,x}$
20
0.1391
RMS 1.135
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

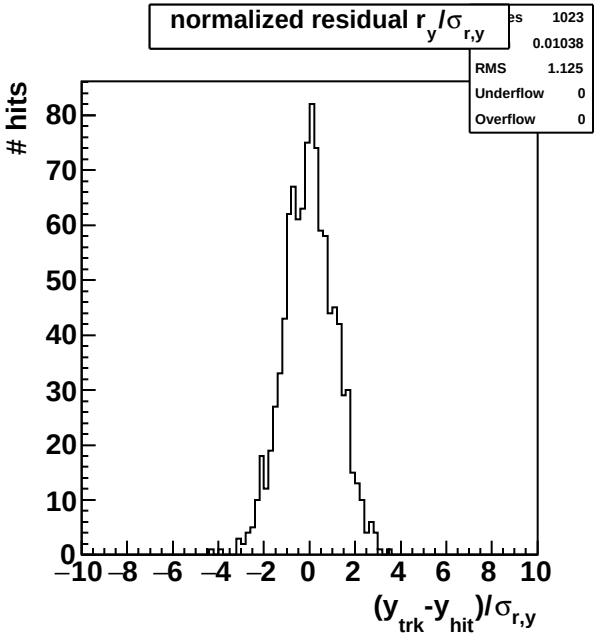

normalized residual $r_x/\sigma_{r,x}$
2
0.3215
RMS 0.9137
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

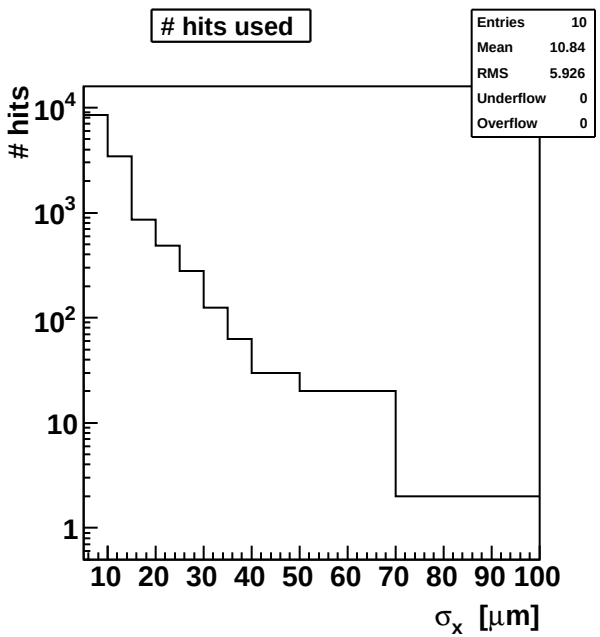

normalized residual $r_y/\sigma_{r,y}$
31
0.02062
RMS 1.22
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
386
0.004081
RMS 1.177
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
1333
− 0.01025
RMS 1.176
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
2803
− 0.008428
RMS 1.12
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
2243
− 0.01603
RMS 1.13
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
2144
− 0.02834
RMS 1.167
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

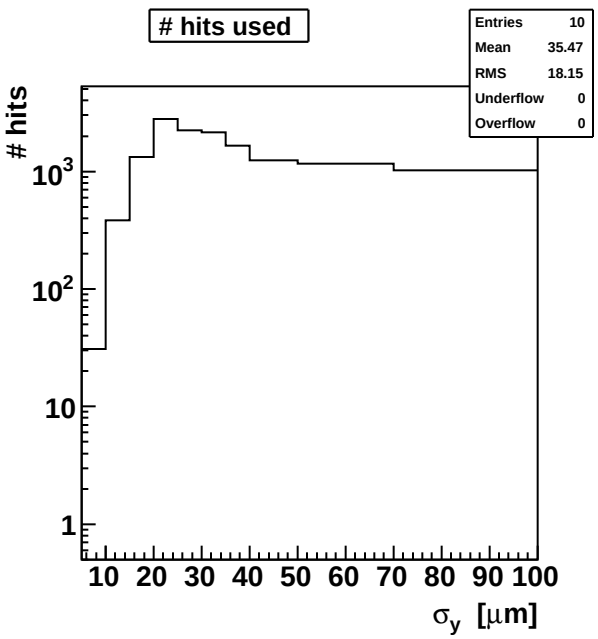

normalized residual $r_y/\sigma_{r,y}$
1663
0.04221
RMS 1.156
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$


normalized residual $r_y/\sigma_{r,y}$
1237
0.06134
RMS 1.123
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

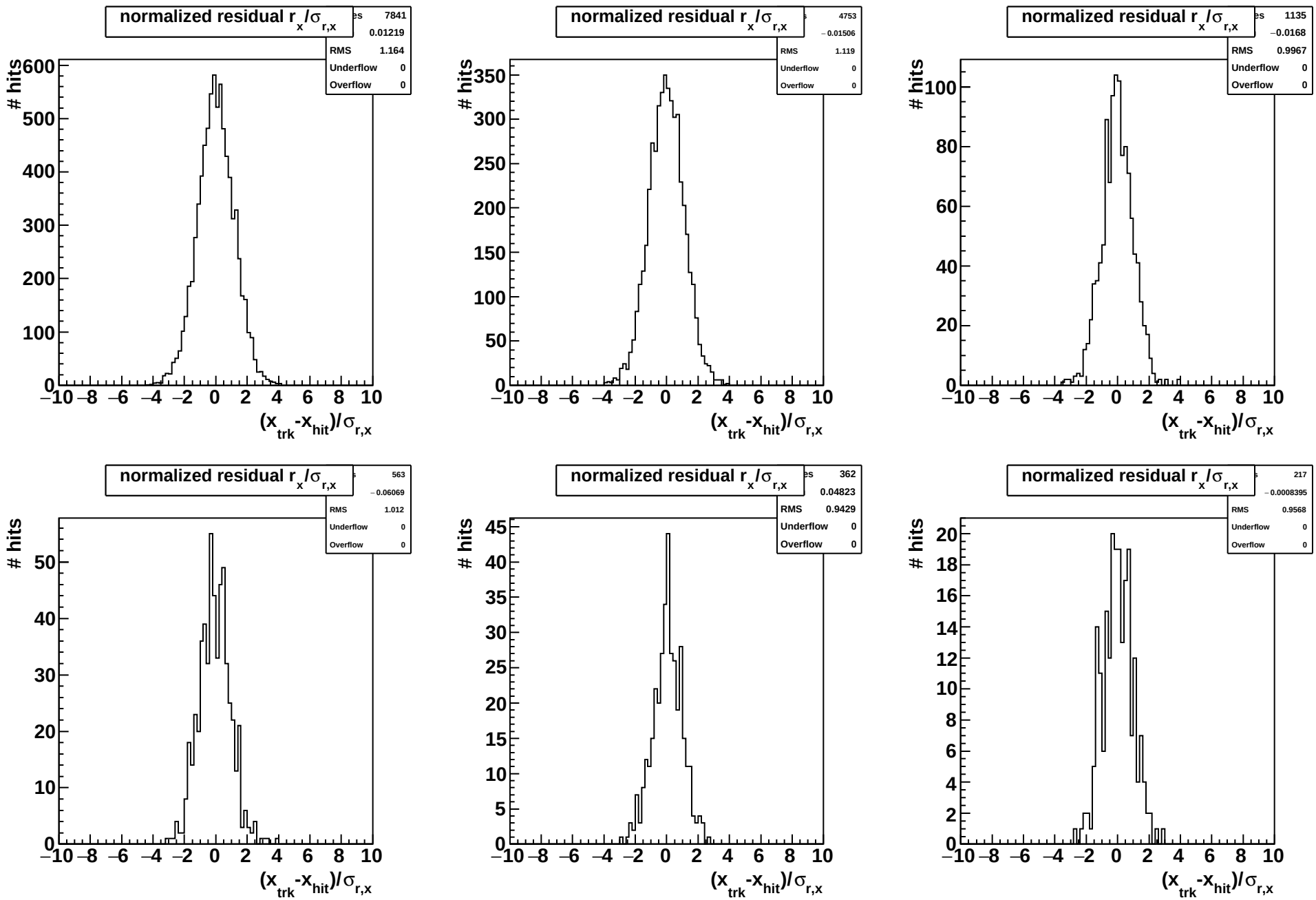

normalized residual $r_y/\sigma_{r,y}$
1161
− 0.01842
RMS 1.153
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

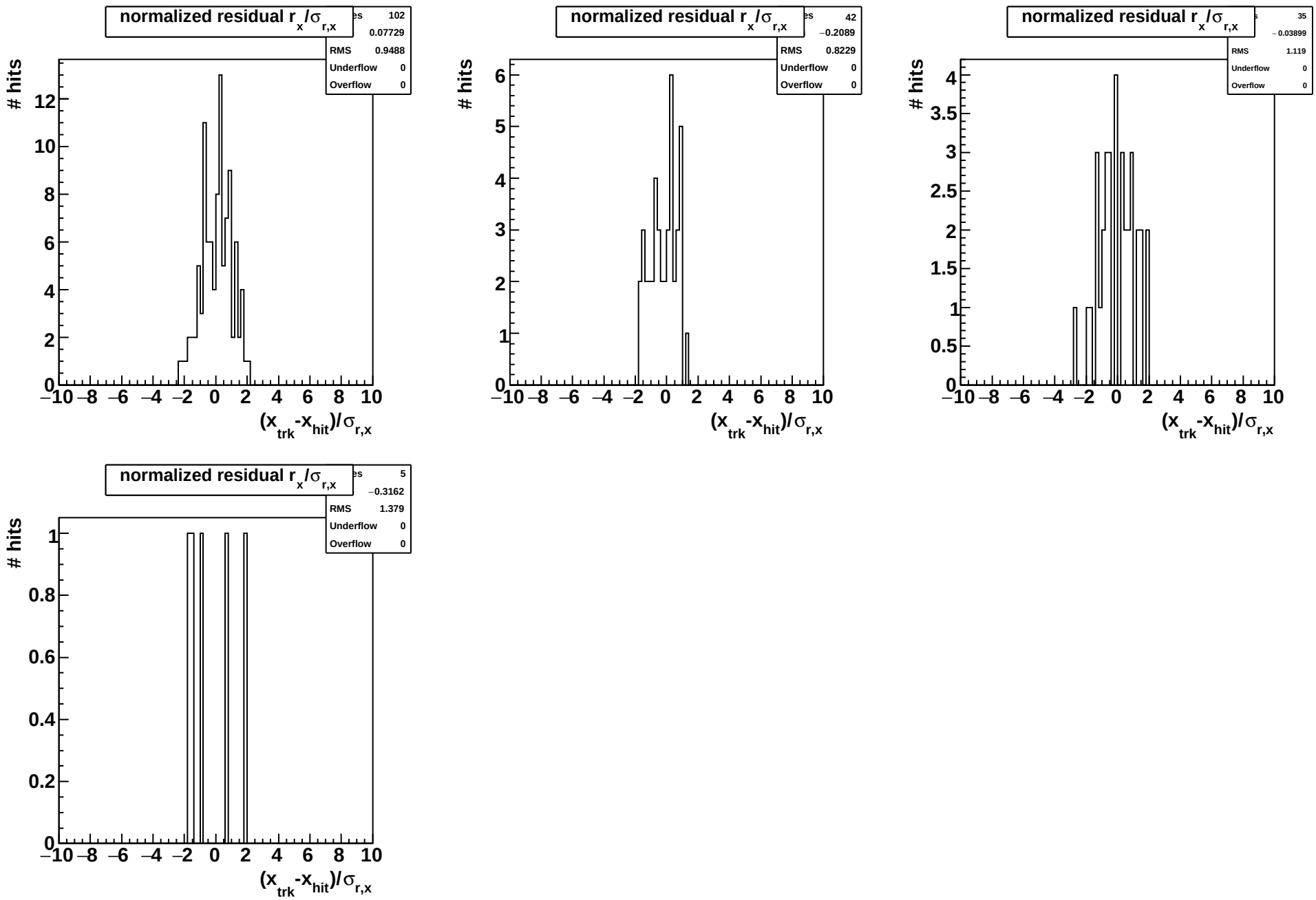

normalized residual $r_y/\sigma_{r,y}$
1023
0.01038
RMS 1.125
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

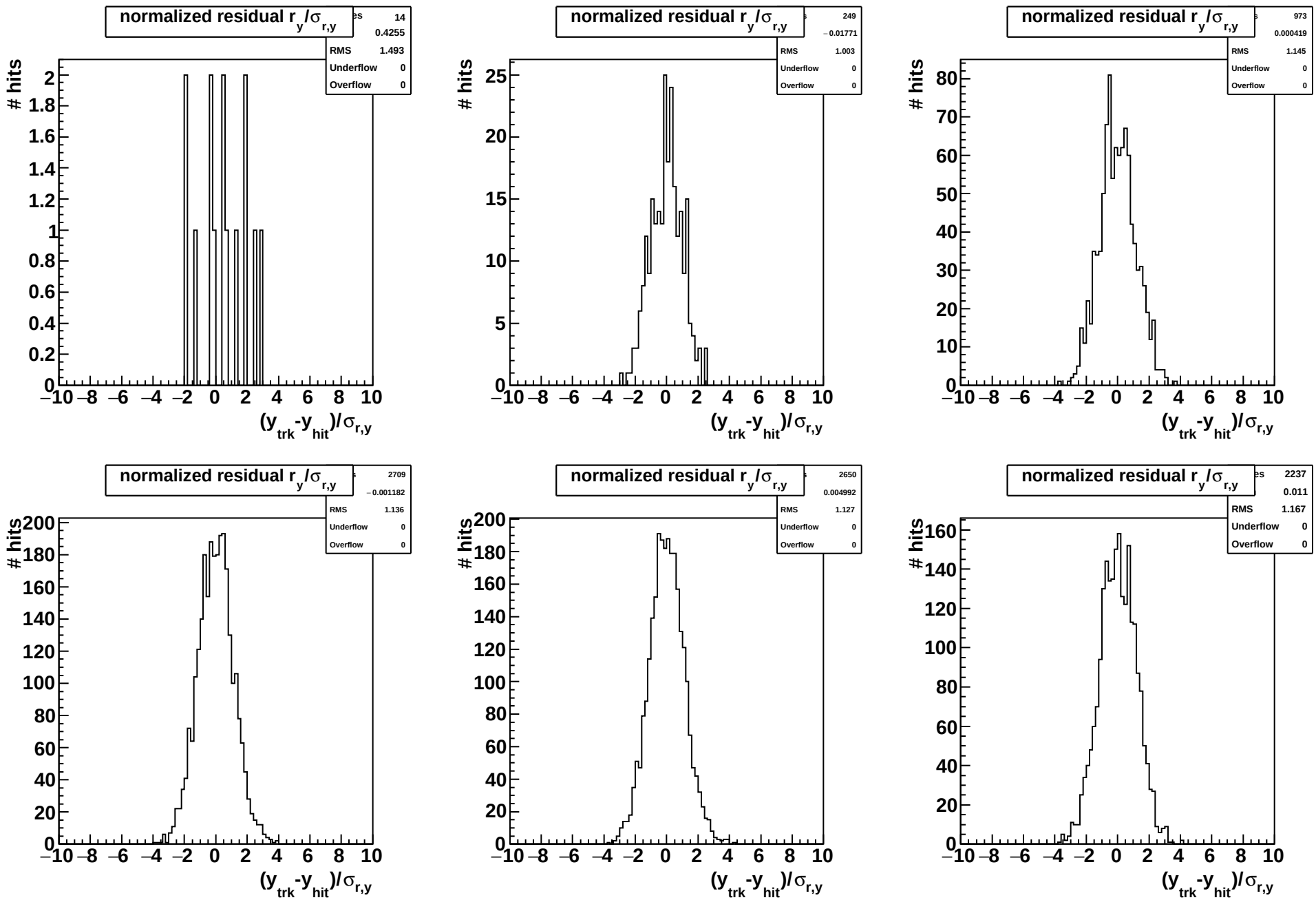

hits used
Entries 10
Mean 10.84
RMS 5.926
Underflow 0
Overflow 0
hits
10^4
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

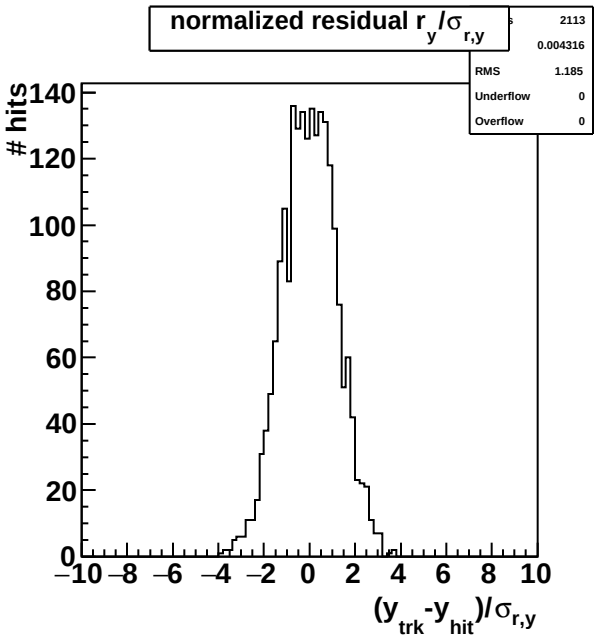

hits used
Entries 10
Mean 35.47
RMS 18.15
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

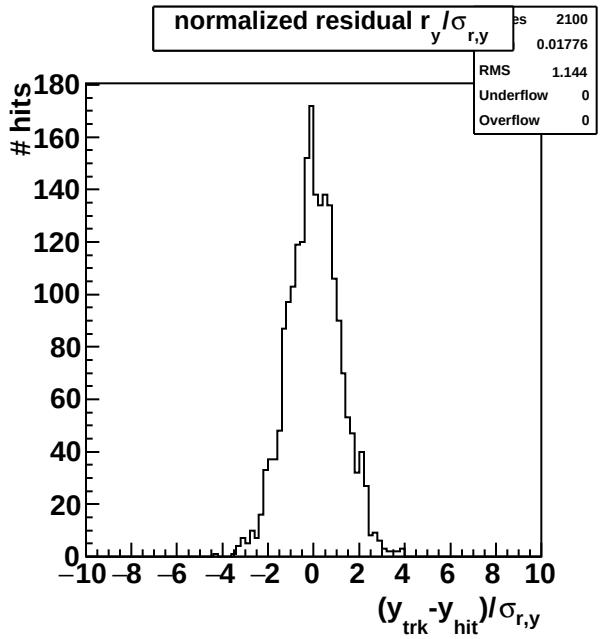
Sector_2/ -- BpixLayer1In

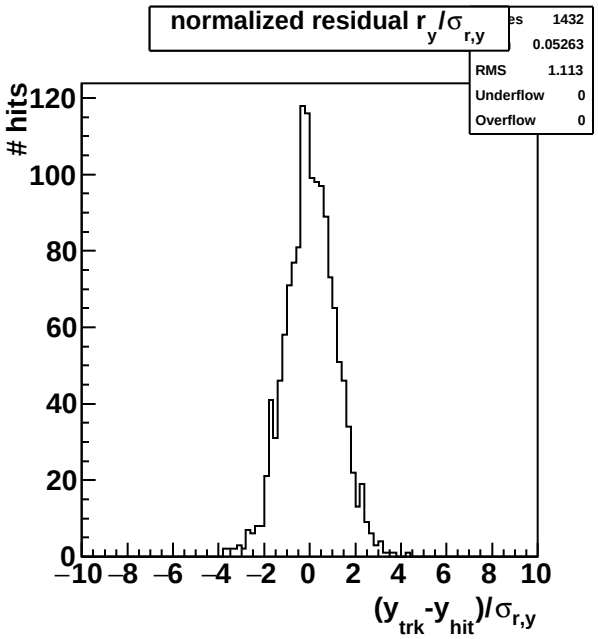

normalized residual $r_x/\sigma_{r,x}$
7841
0.01219
RMS 1.164
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
4753
−0.01506
RMS 1.119
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1135
−0.0168
RMS 0.9967
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
563
−0.06069
RMS 1.012
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
362
0.04823
RMS 0.9429
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
217
−0.0008395
RMS 0.9568
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

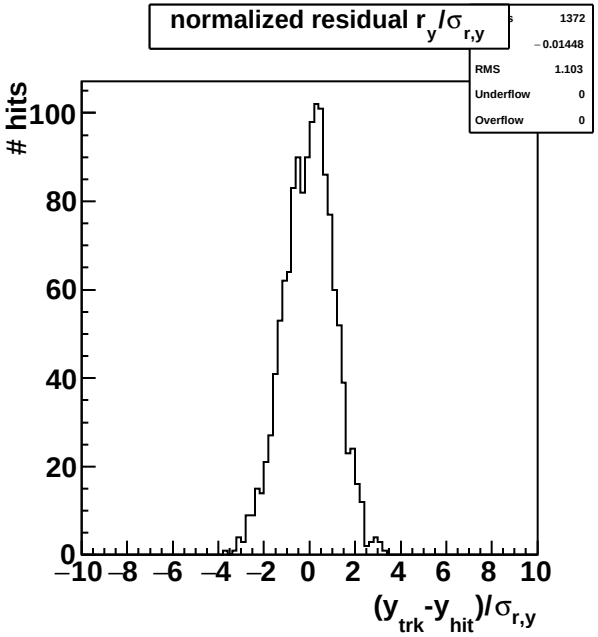

normalized residual $r_x/\sigma_{r,x}$
102
0.07729
RMS 0.9488
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
42
−0.2089
RMS 0.8229
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
35
−0.03899
RMS 1.119
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
5
−0.3162
RMS 1.379
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

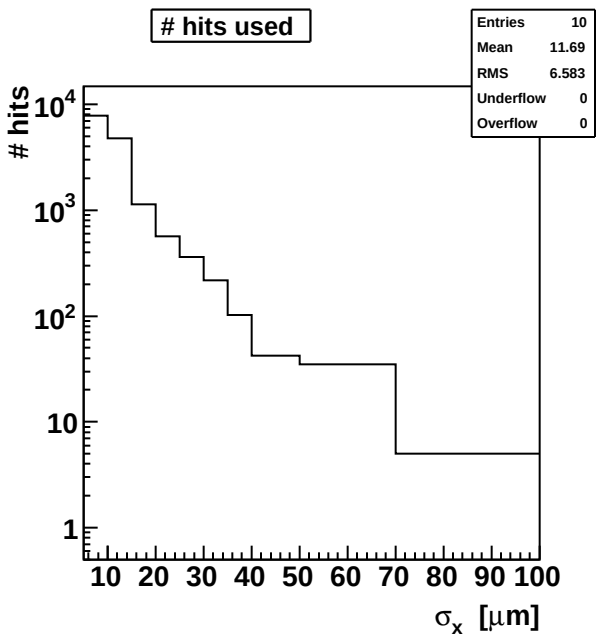

normalized residual $r_y/\sigma_{r,y}$
14
0.4255
RMS 1.493
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
249
−0.01771
RMS 1.003
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
973
0.000419
RMS 1.145
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
2709
−0.001182
RMS 1.136
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
2650
0.004992
RMS 1.127
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
2237
0.011
RMS 1.167
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

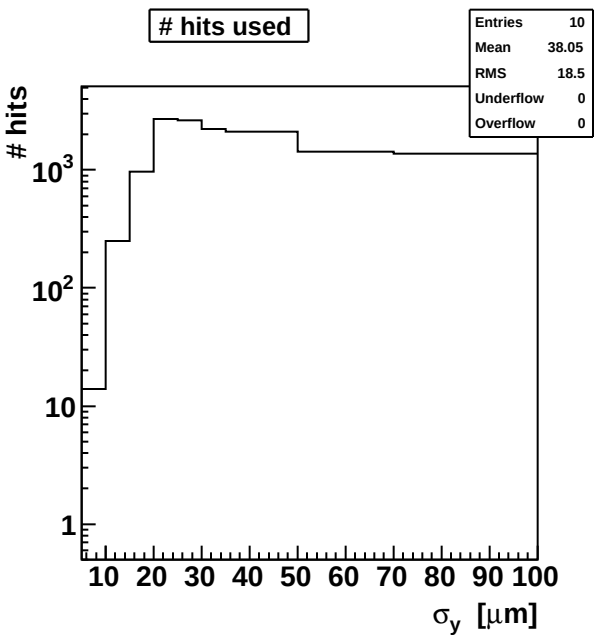

normalized residual $r_y/\sigma_{r,y}$
2113
0.004316
RMS 1.185
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$


normalized residual $r_y/\sigma_{r,y}$
2100
0.01776
RMS 1.144
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

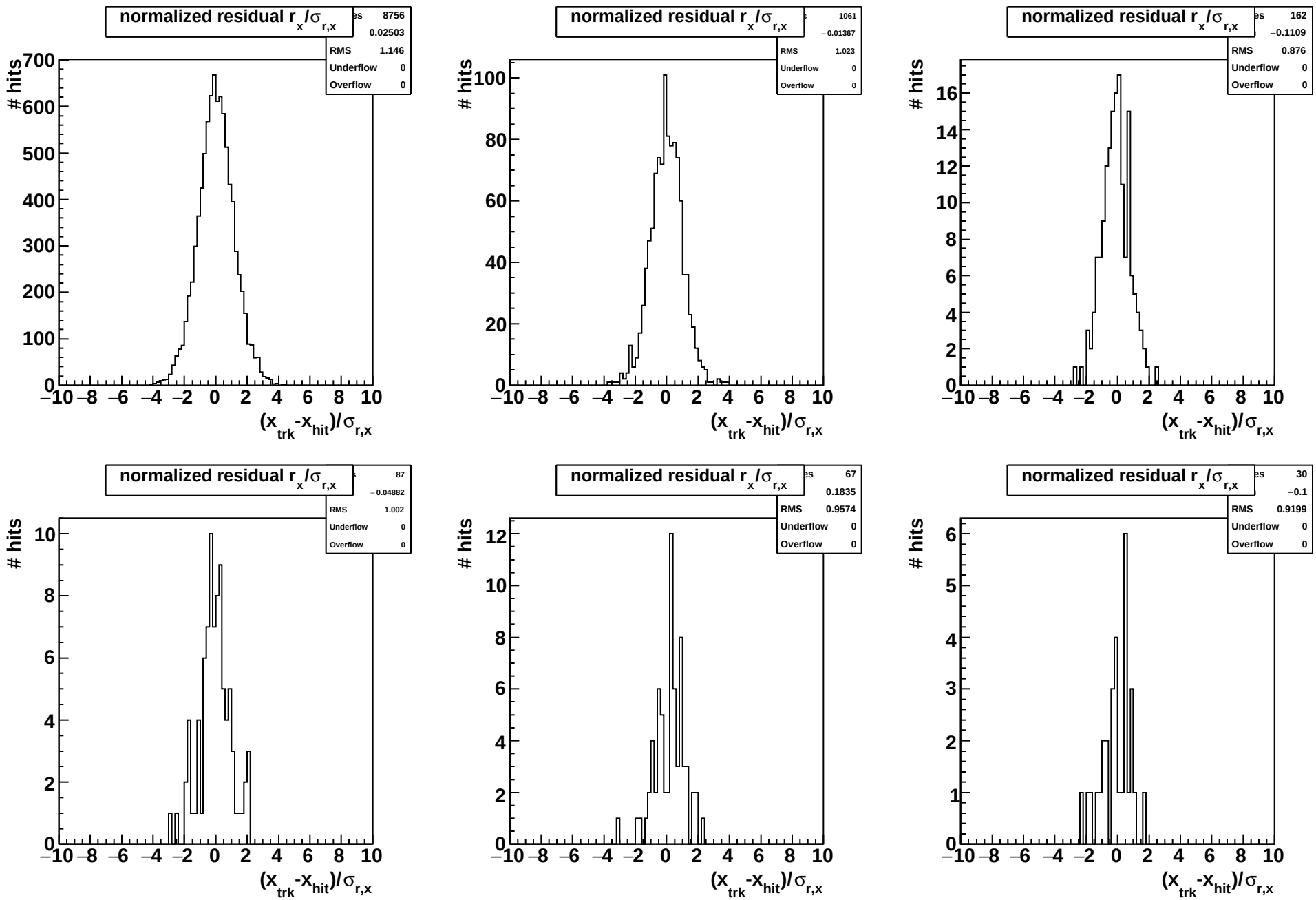

normalized residual $r_y/\sigma_{r,y}$
1432
0.05263
RMS 1.113
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

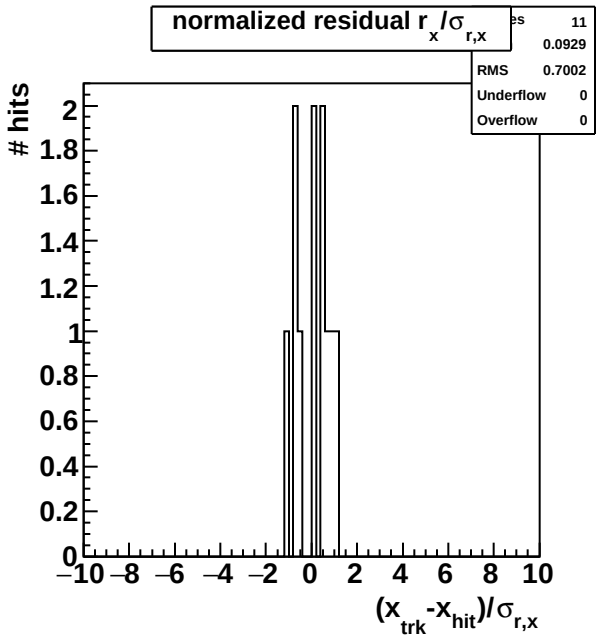

normalized residual $r_y/\sigma_{r,y}$
1372
−0.01448
RMS 1.103
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

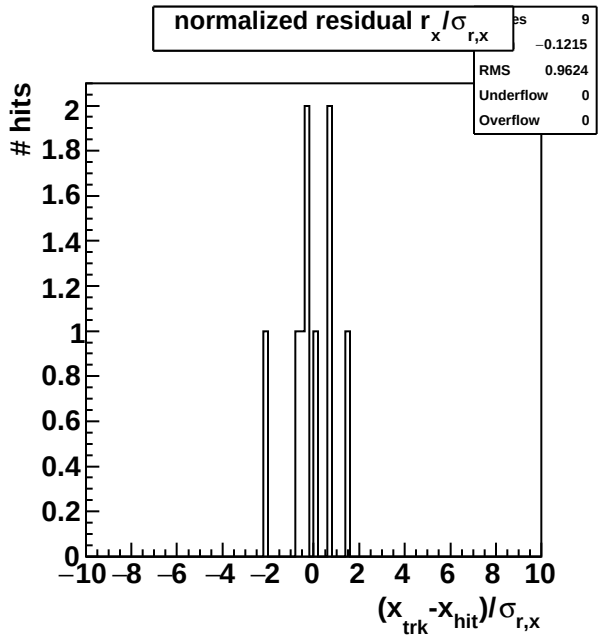

hits used
Entries 10
Mean 11.69
RMS 6.583
Underflow 0
Overflow 0
hits
10^4
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

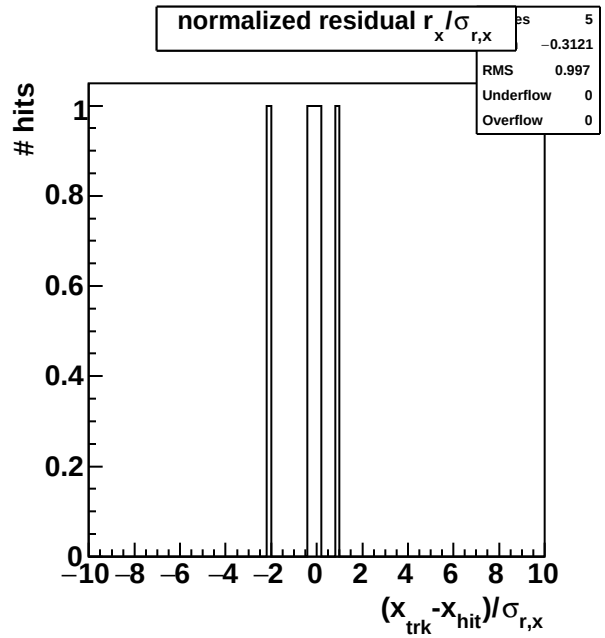

hits used
Entries 10
Mean 38.05
RMS 18.5
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

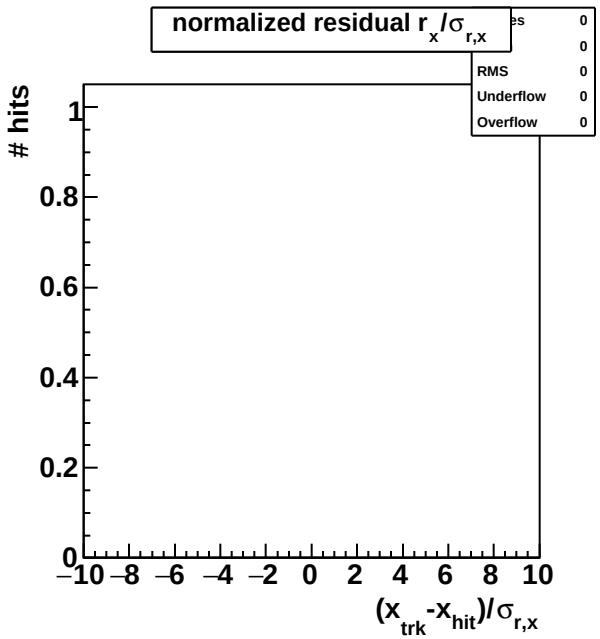
Sector_3/ -- BpixLayer2Out

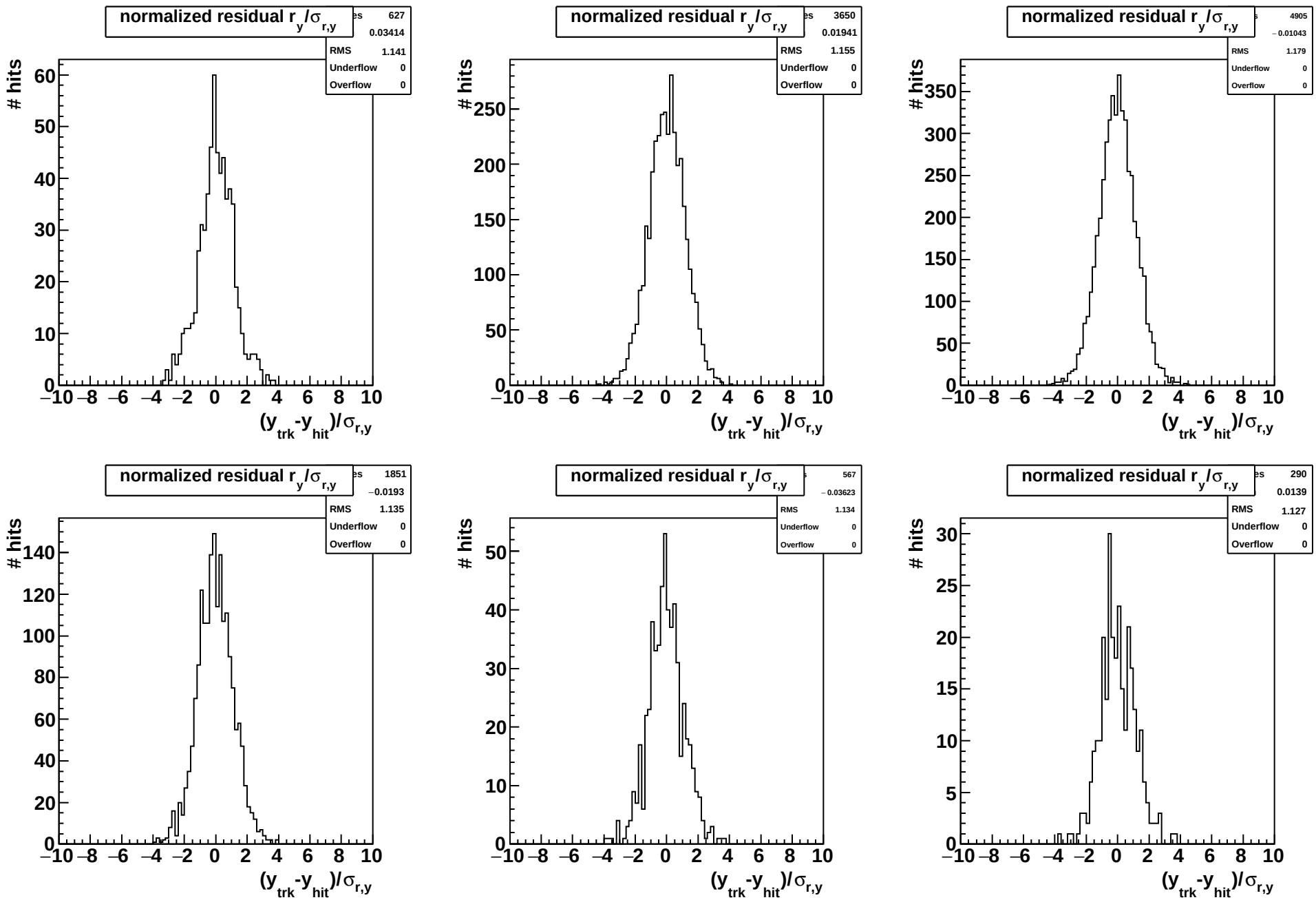

normalized residual $r_x/\sigma_{r,x}$
8756
0.02503
RMS 1.146
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1061
−0.01367
RMS 1.023
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
162
−0.1109
RMS 0.876
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
87
−0.04882
RMS 1.002
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
67
0.1835
RMS 0.9574
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
30
−0.1
RMS 0.9199
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

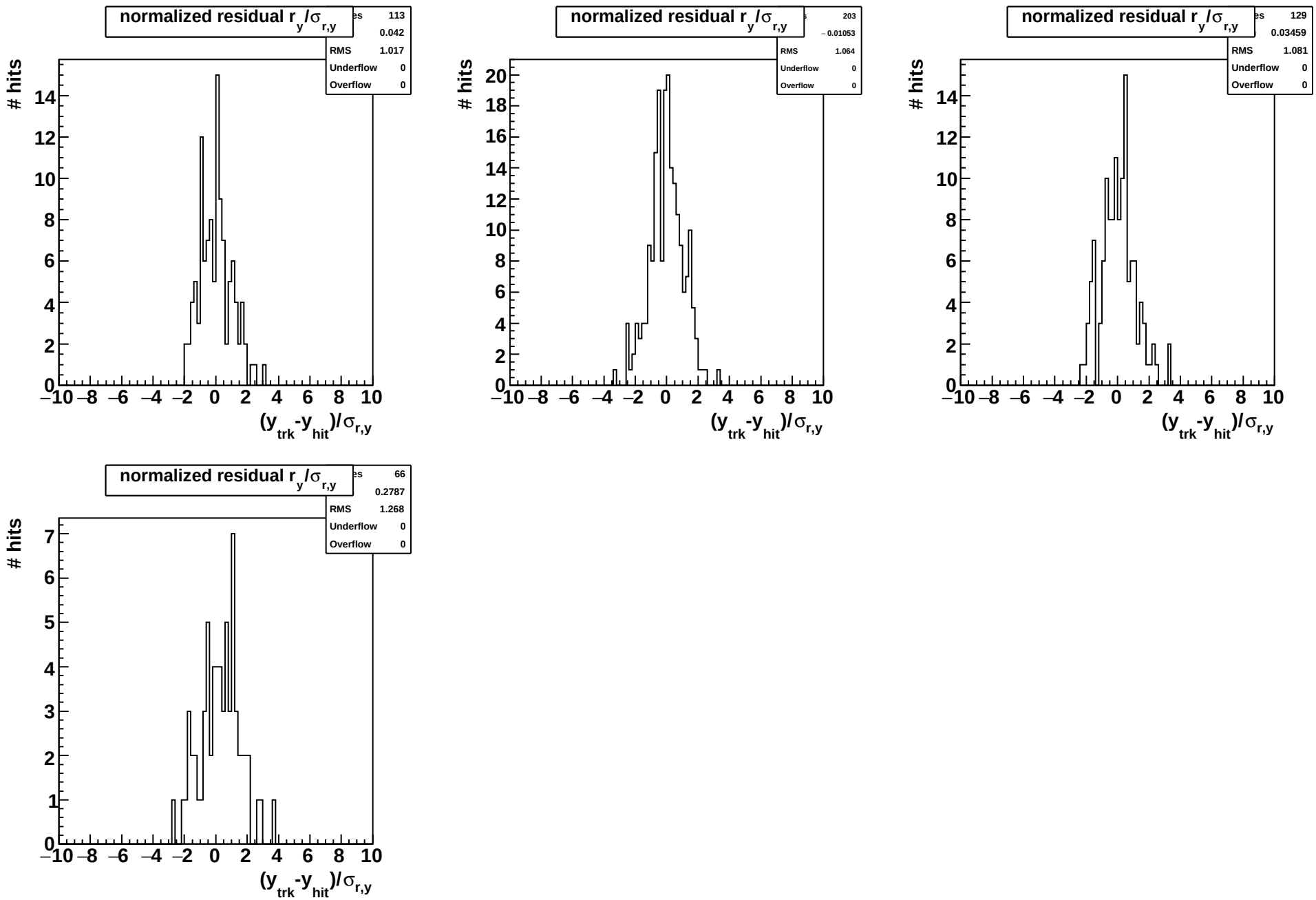

normalized residual $r_x/\sigma_{r,x}$
es 11
0.0929
RMS 0.7002
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

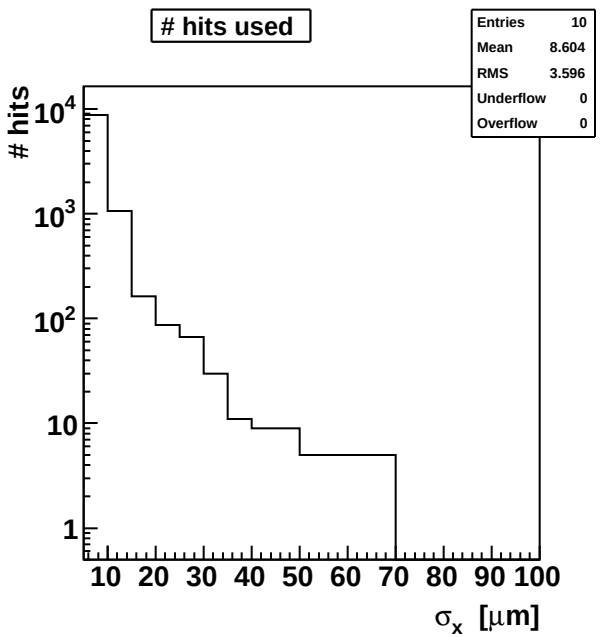

normalized residual $r_x/\sigma_{r,x}$
es 9
−0.1215
RMS 0.9624
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

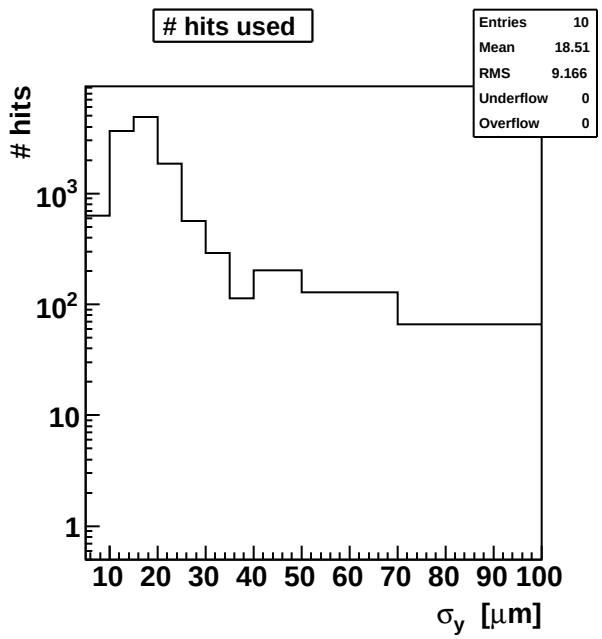

normalized residual $r_x/\sigma_{r,x}$
es 5
−0.3121
RMS 0.997
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

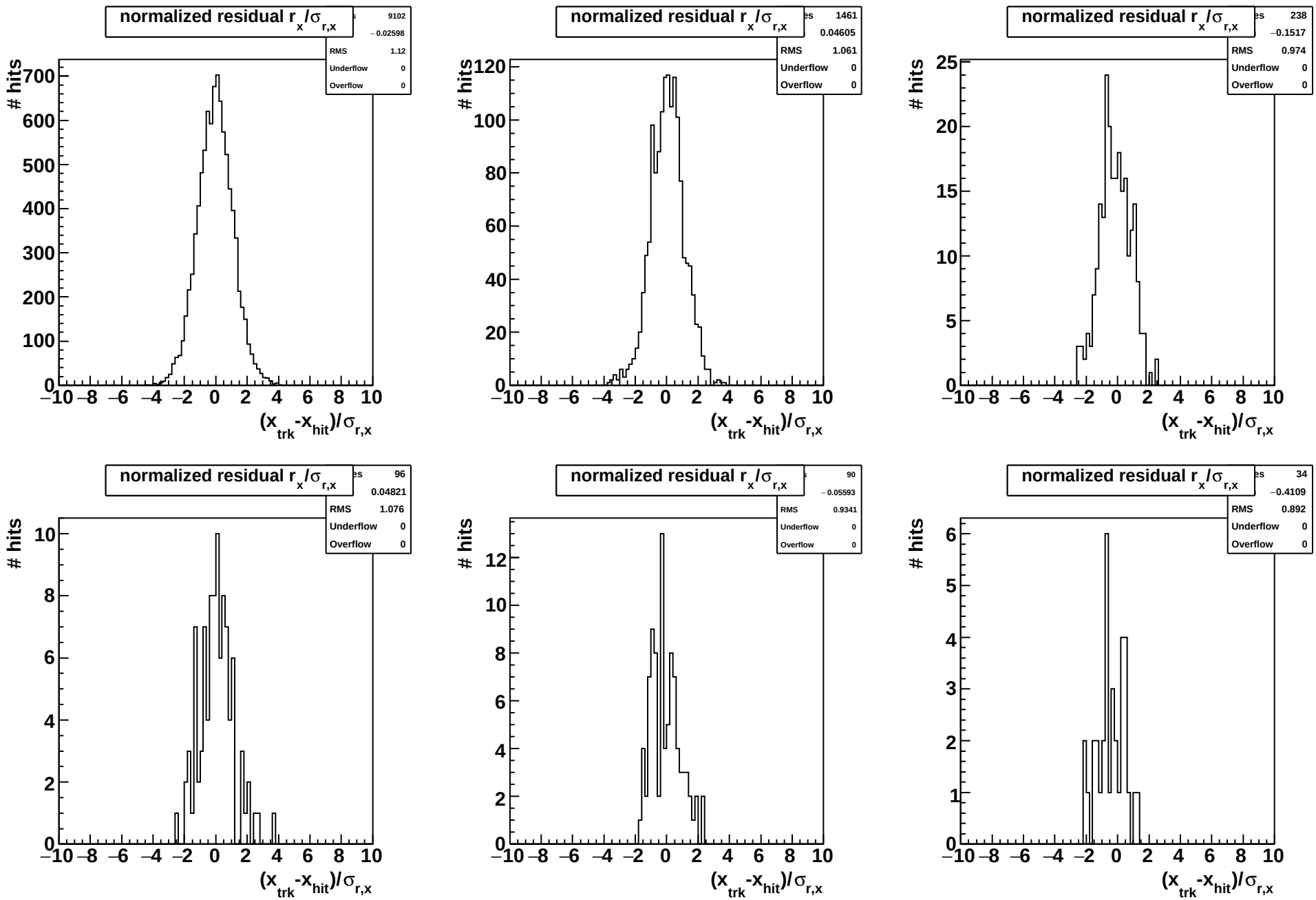

normalized residual $r_y/\sigma_{r,y}$
627
0.03414
RMS 1.141
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
3650
0.01941
RMS 1.155
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
4905
−0.01043
RMS 1.179
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
1851
−0.0193
RMS 1.135
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
567
−0.03623
RMS 1.134
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
290
0.0139
RMS 1.127
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

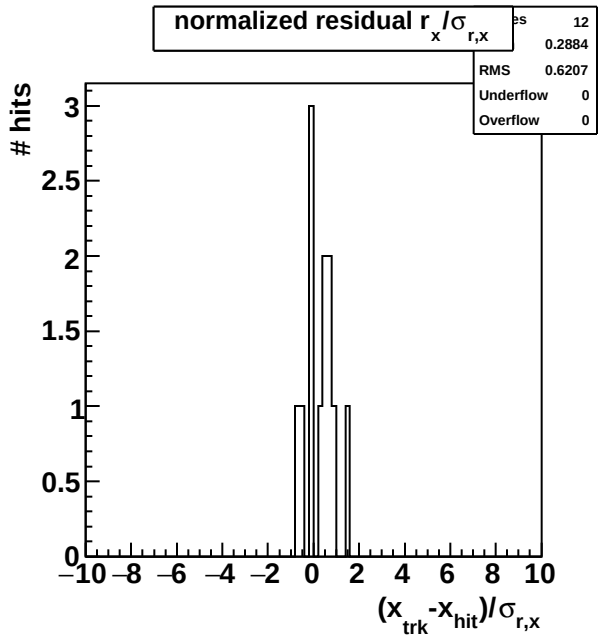

normalized residual $r_y/\sigma_{r,y}$
113
0.042
RMS 1.017
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
203
−0.01053
RMS 1.064
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
129
0.03459
RMS 1.081
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
66
0.2787
RMS 1.268
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

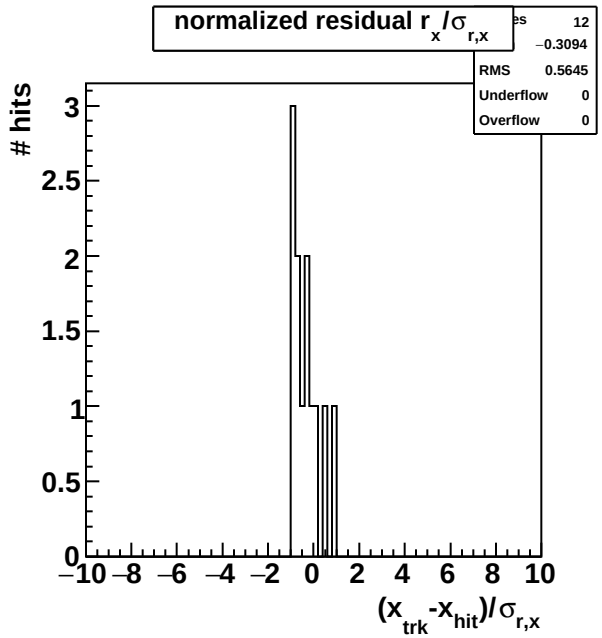

hits used
Entries 10
Mean 8.604
RMS 3.596
Underflow 0
Overflow 0
hits
10^4
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

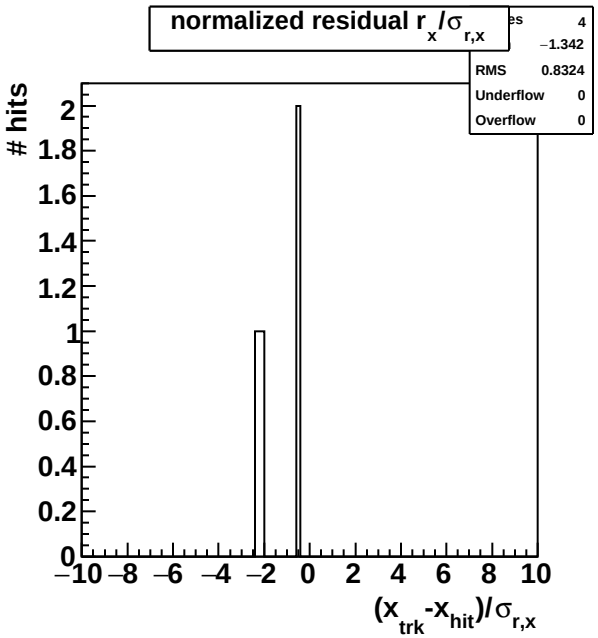

hits used
Entries 10
Mean 18.51
RMS 9.166
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

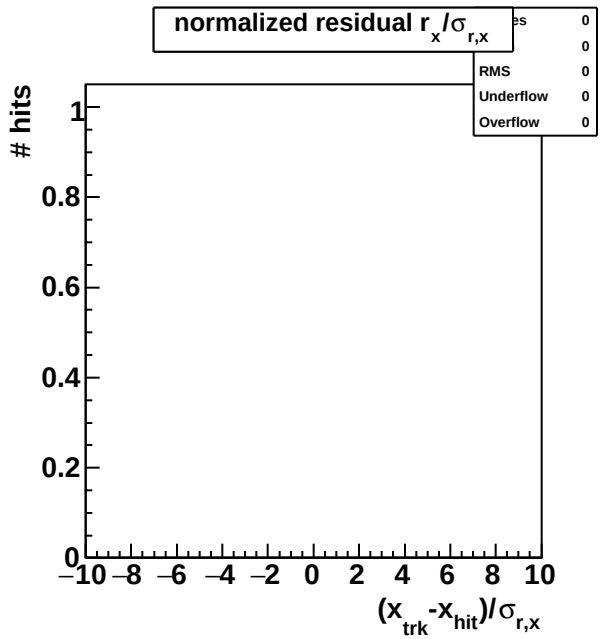
Sector_4/ -- BpixLayer2In

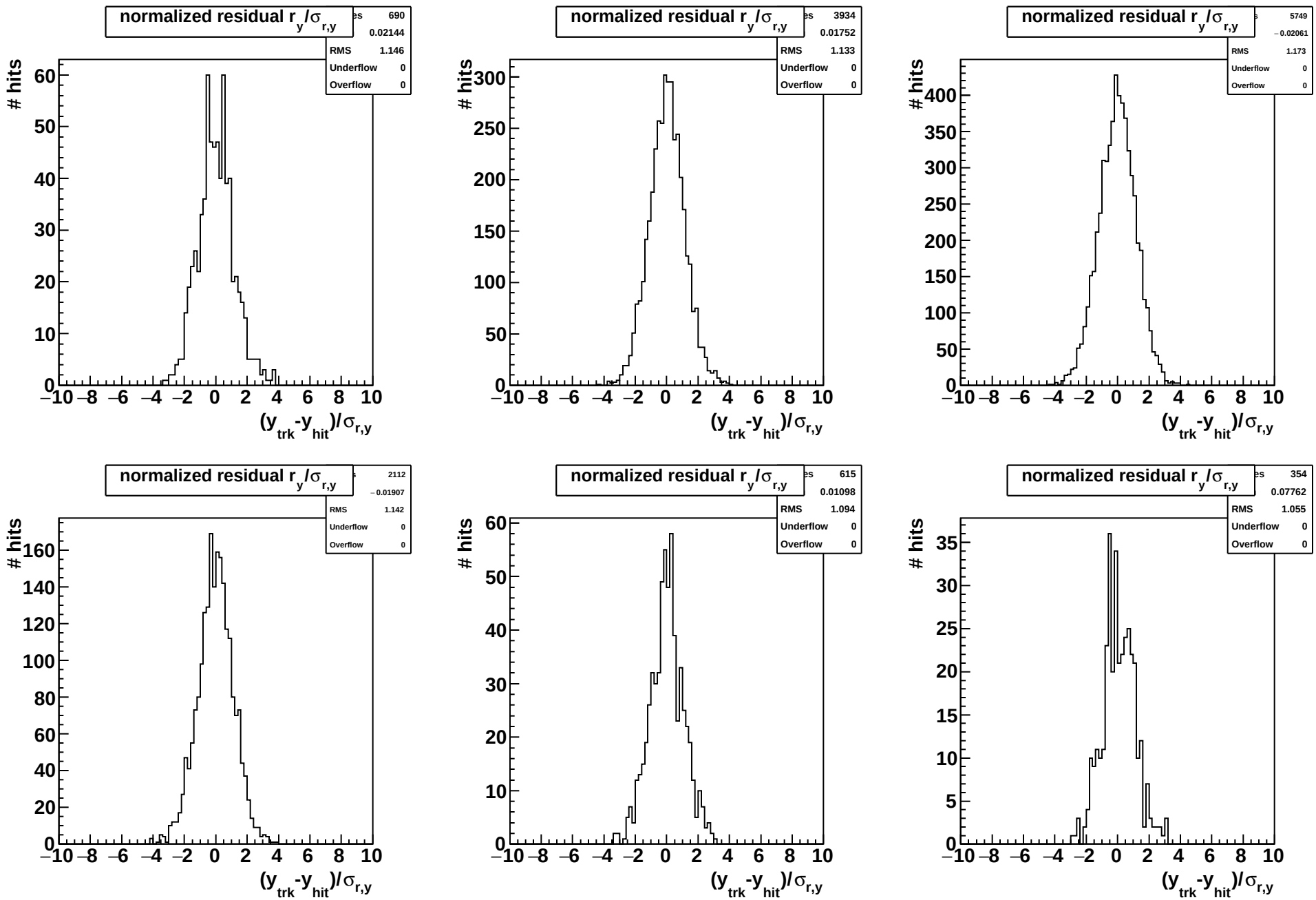

normalized residual $r_x/\sigma_{r,x}$
9102
−0.02598
RMS 1.12
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1461
0.04605
RMS 1.061
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
238
−0.1517
RMS 0.974
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
96
0.04821
RMS 1.076
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
90
−0.05593
RMS 0.9341
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
34
−0.4109
RMS 0.892
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

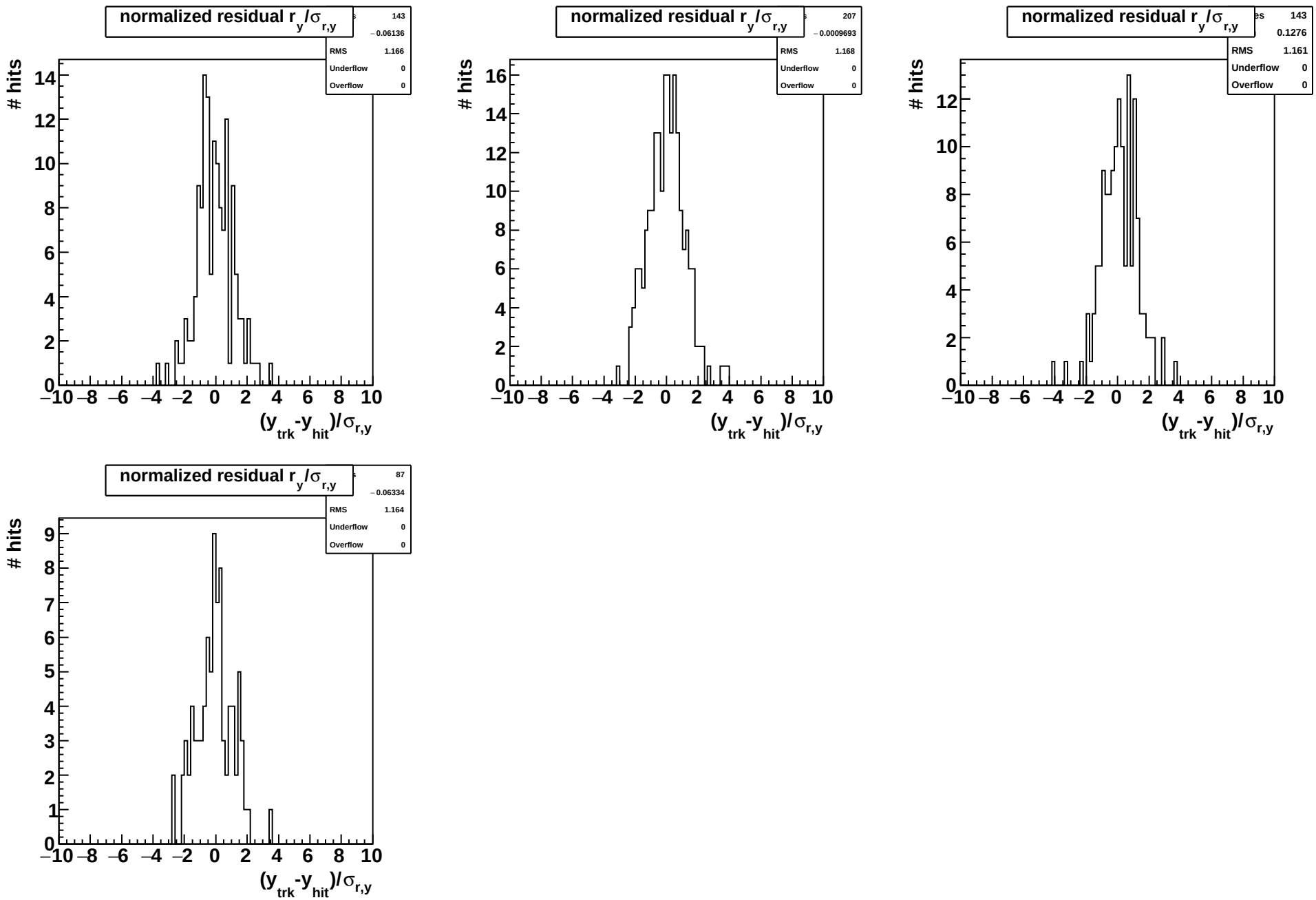

normalized residual $r_x/\sigma_{r,x}$
12
0.2884
RMS 0.6207
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

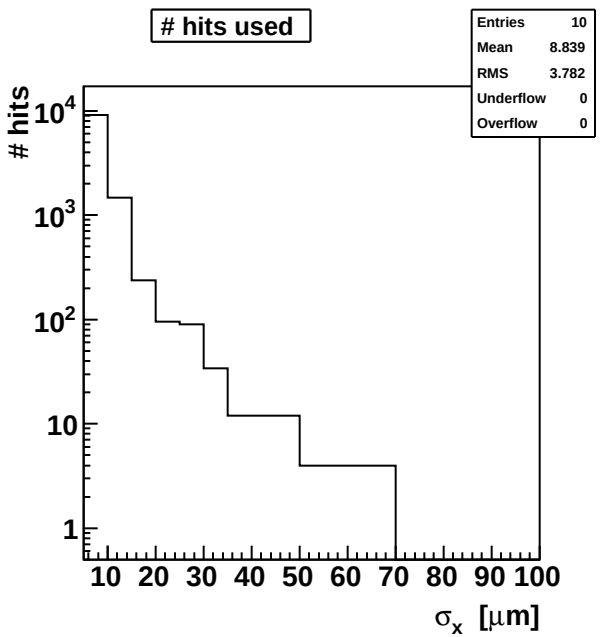

normalized residual $r_x/\sigma_{r,x}$
12
−0.3094
RMS 0.5645
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

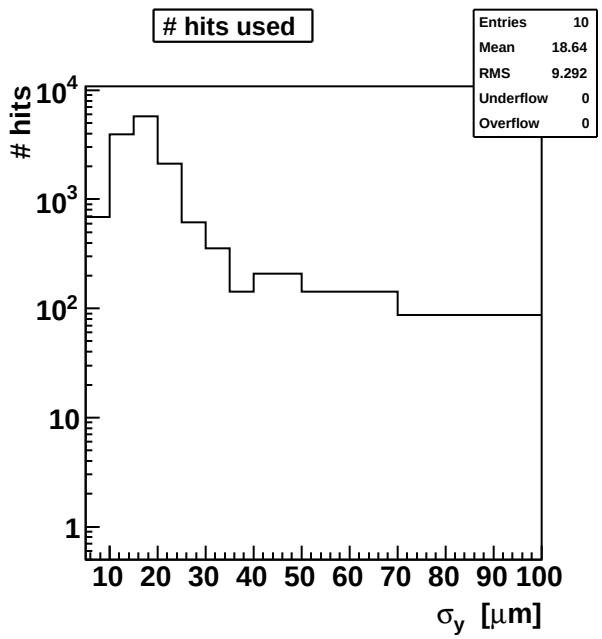

normalized residual $r_x/\sigma_{r,x}$
4
−1.342
RMS 0.8324
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

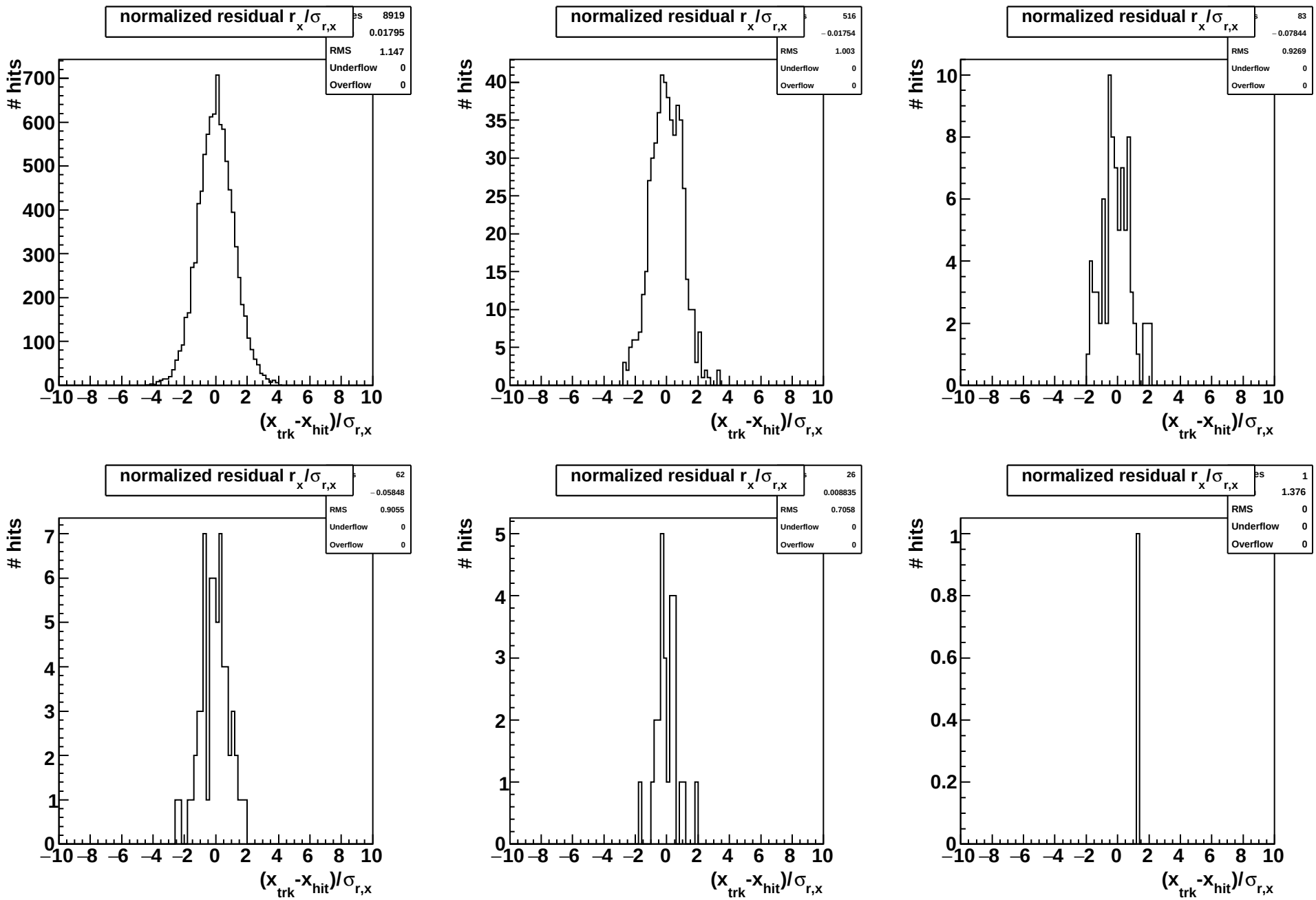

normalized residual $r_y/\sigma_{r,y}$
690
0.02144
RMS 1.146
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
3934
0.01752
RMS 1.133
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
5749
−0.02061
RMS 1.173
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
2112
−0.01907
RMS 1.142
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
615
0.01098
RMS 1.094
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
354
0.07762
RMS 1.055
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

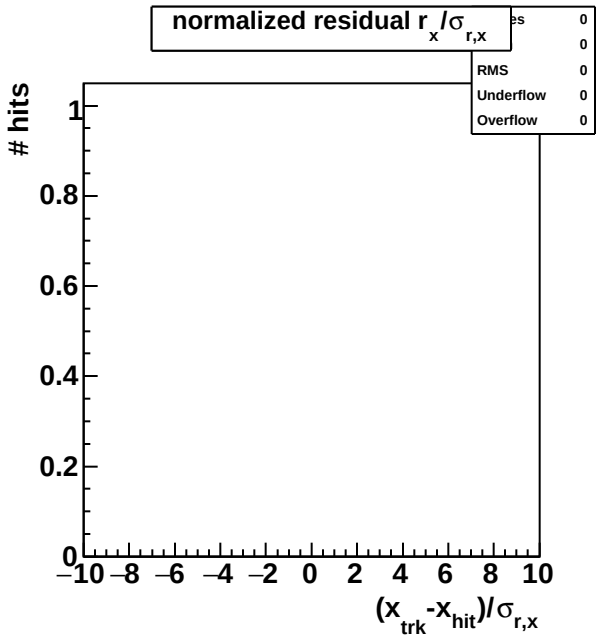

normalized residual $r_y/\sigma_{r,y}$
143
−0.06136
RMS 1.166
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
207
−0.0009693
RMS 1.168
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
143
0.1276
RMS 1.161
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
87
−0.06334
RMS 1.164
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

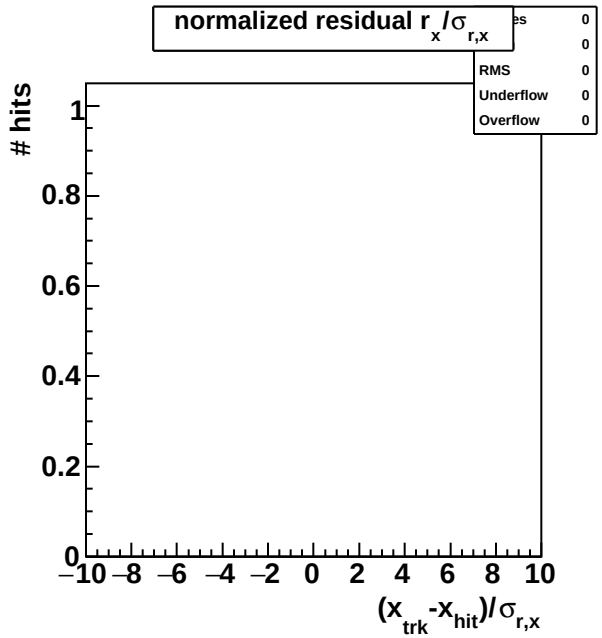

hits used
Entries 10
Mean 8.839
RMS 3.782
Underflow 0
Overflow 0
hits
10^4
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

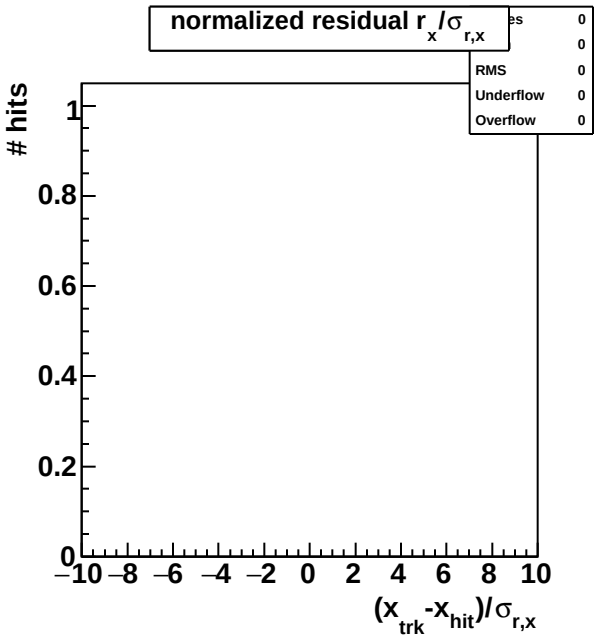

hits used
Entries 10
Mean 18.64
RMS 9.292
Underflow 0
Overflow 0
hits
10^4
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

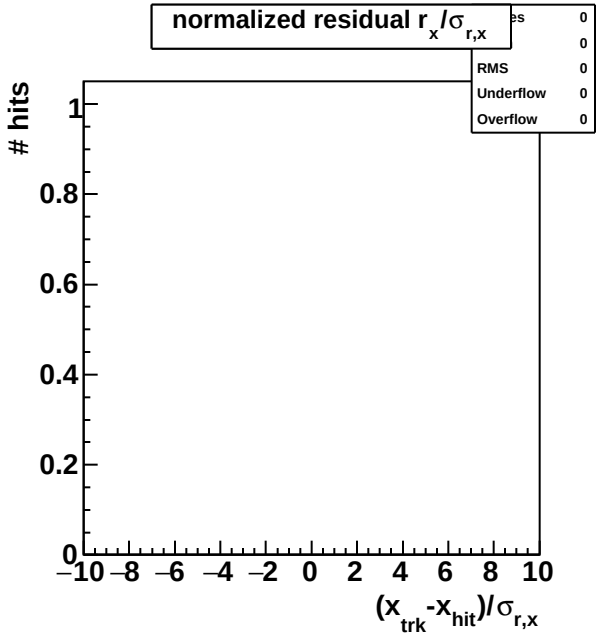
Sector_5/ -- BpixLayer3Out

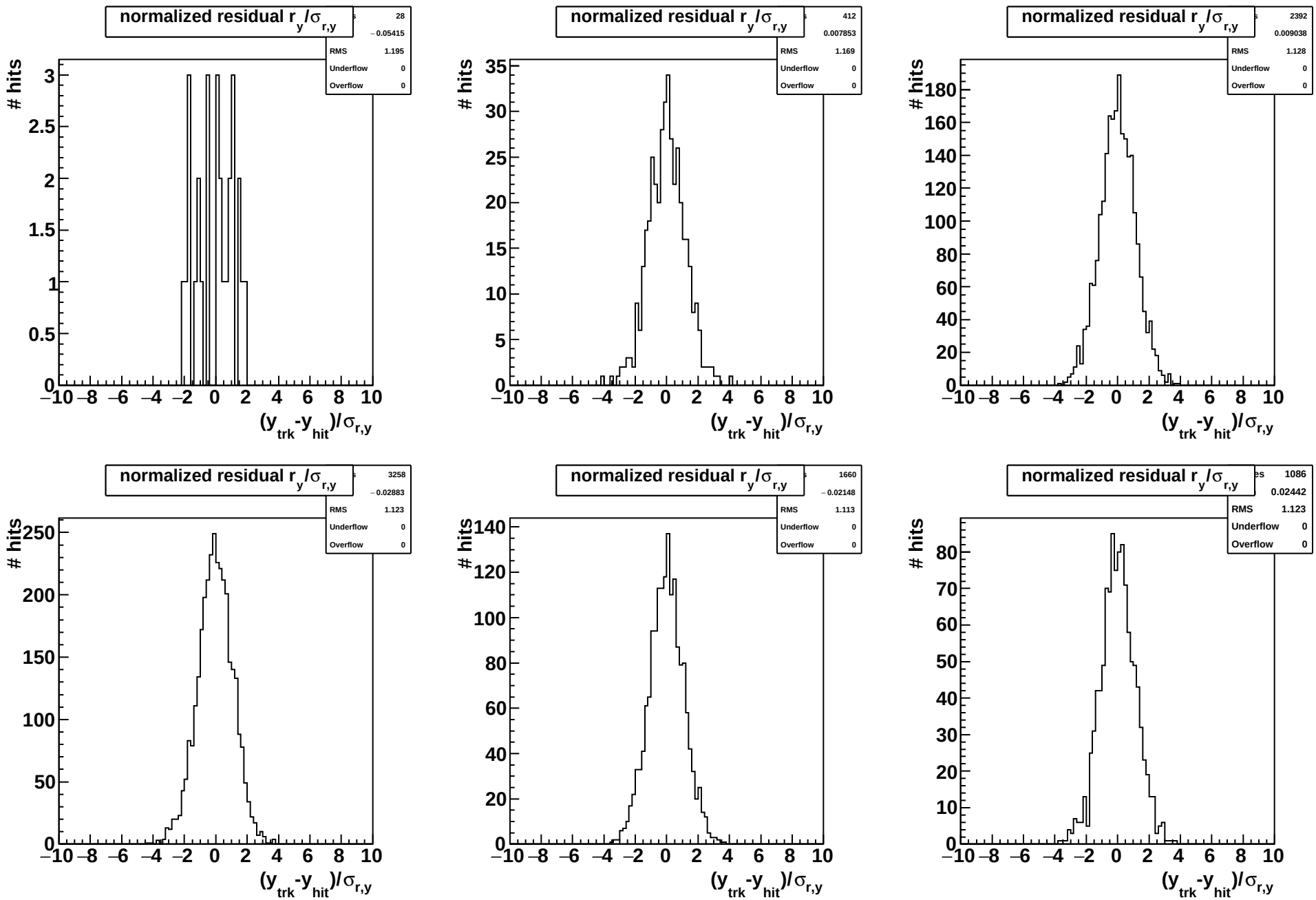

normalized residual $r_x/\sigma_{r,x}$
8919
0.01795
RMS 1.147
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
516
−0.01754
RMS 1.003
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
83
−0.07844
RMS 0.9269
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
62
−0.05848
RMS 0.9055
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
26
0.008835
RMS 0.7058
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1
1.376
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

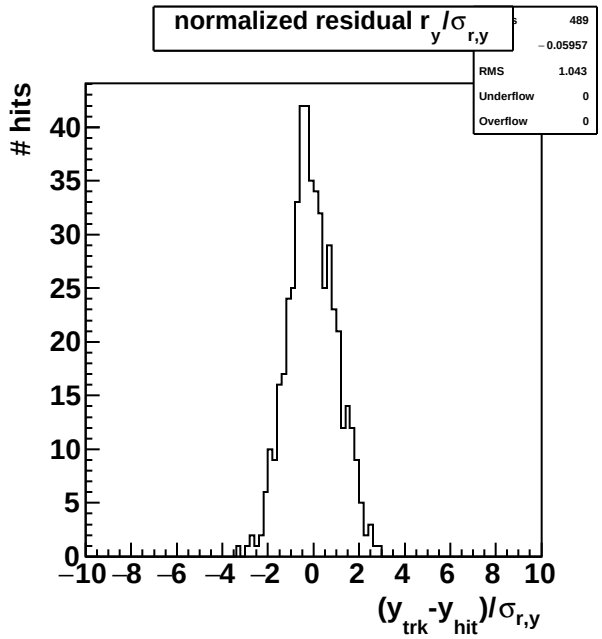

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

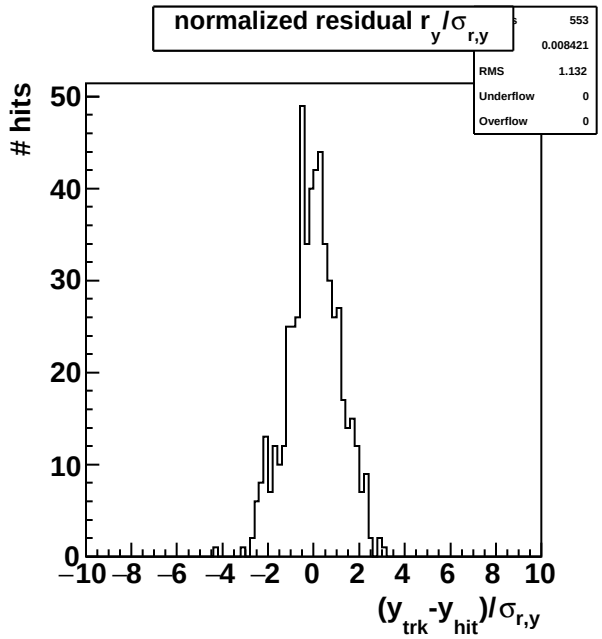

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

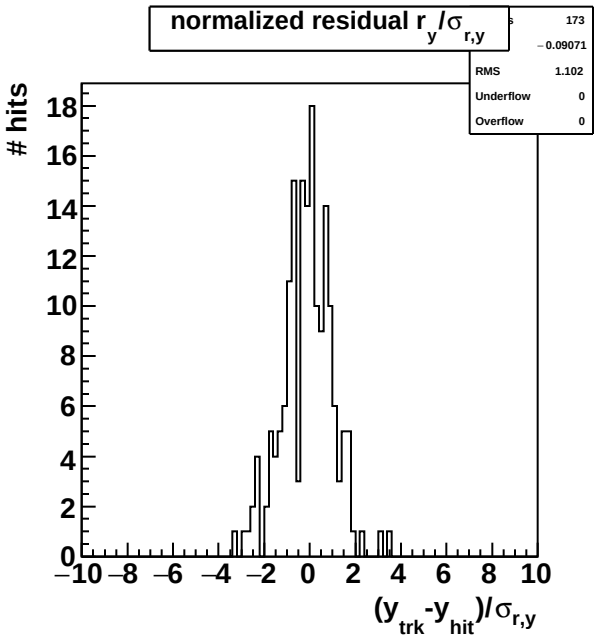

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

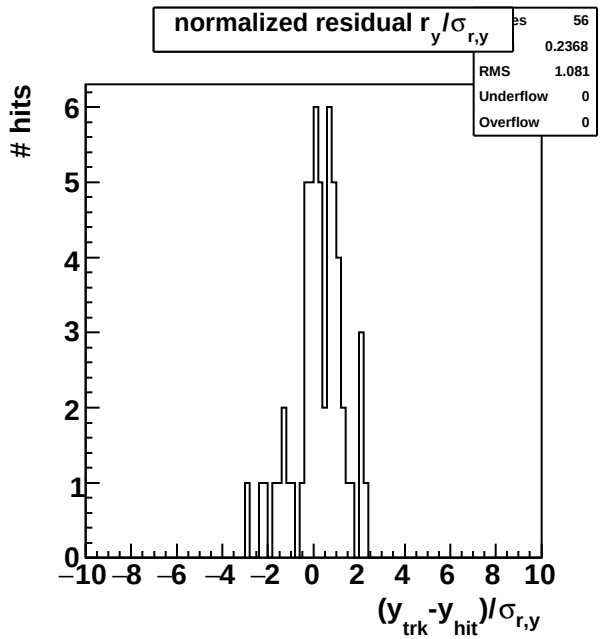

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

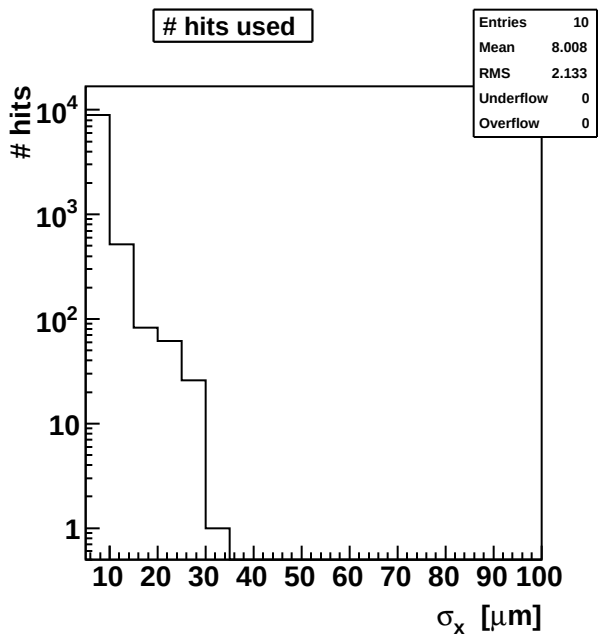

normalized residual $r_y/\sigma_{r,y}$
28
−0.05415
RMS 1.195
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
412
0.007853
RMS 1.169
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
2392
0.009038
RMS 1.128
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
3258
−0.02883
RMS 1.123
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
1660
−0.02148
RMS 1.113
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
1086
0.02442
RMS 1.123
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

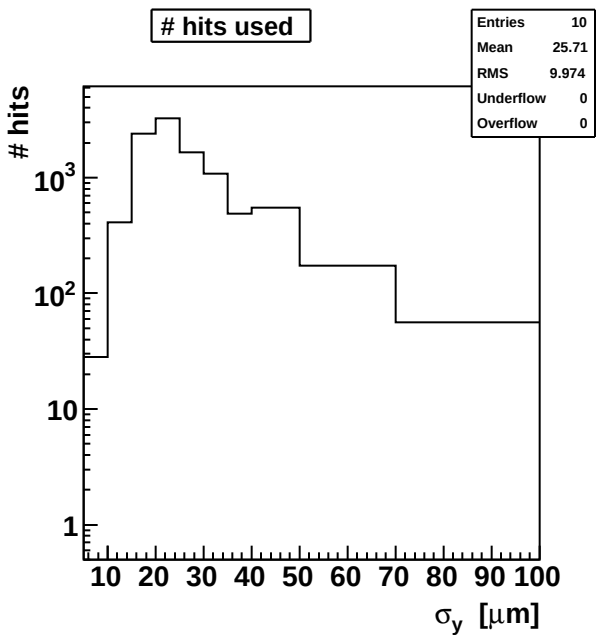

normalized residual $r_y/\sigma_{r,y}$
489
−0.05957
RMS 1.043
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$


normalized residual $r_y/\sigma_{r,y}$
553
0.008421
RMS 1.132
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

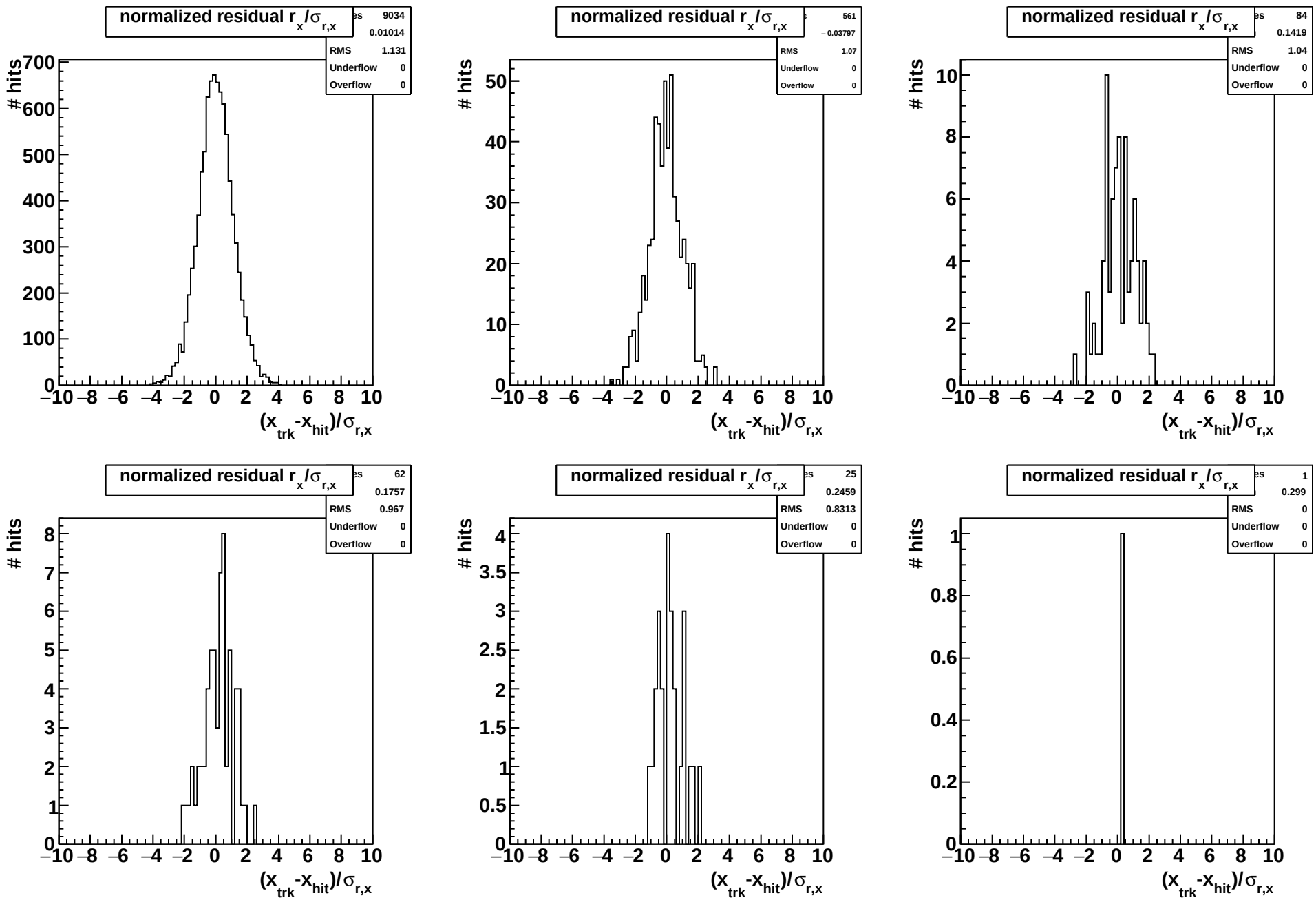

normalized residual $r_y/\sigma_{r,y}$
173
−0.09071
RMS 1.102
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

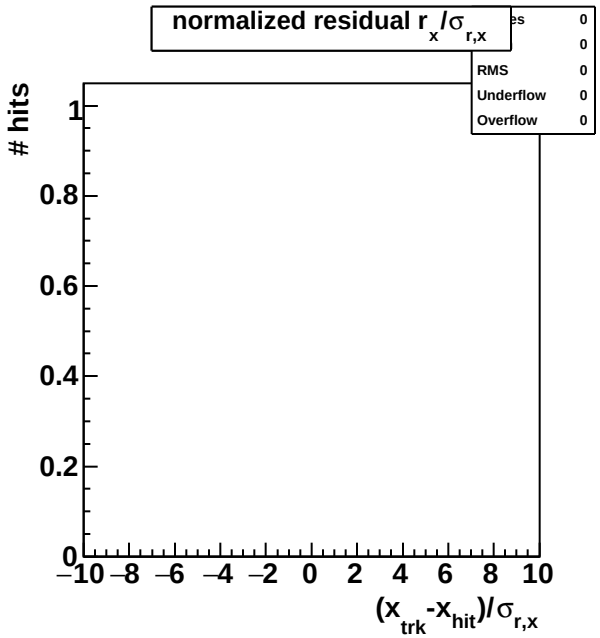

normalized residual $r_y/\sigma_{r,y}$
56
0.2368
RMS 1.081
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

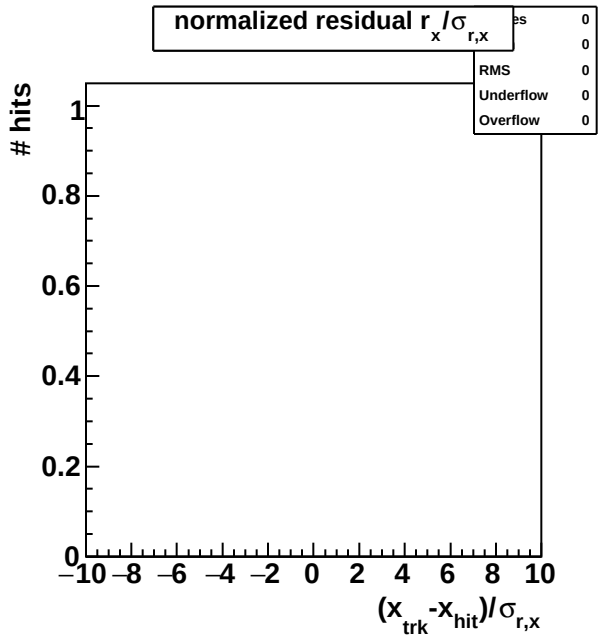

hits used
Entries 10
Mean 8.008
RMS 2.133
Underflow 0
Overflow 0
hits
10^4
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

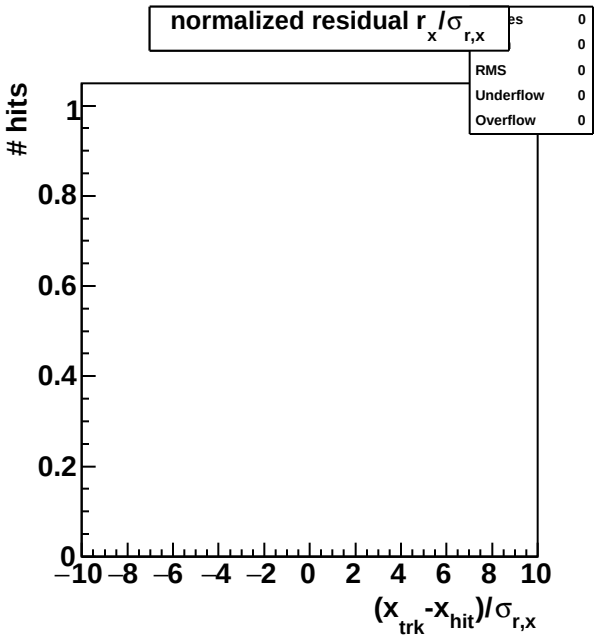

hits used
Entries 10
Mean 25.71
RMS 9.974
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

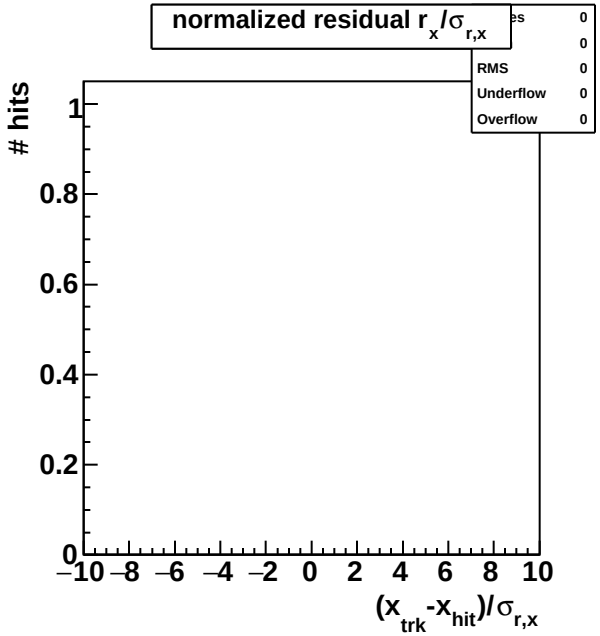
Sector_6/ -- BpixLayer3In

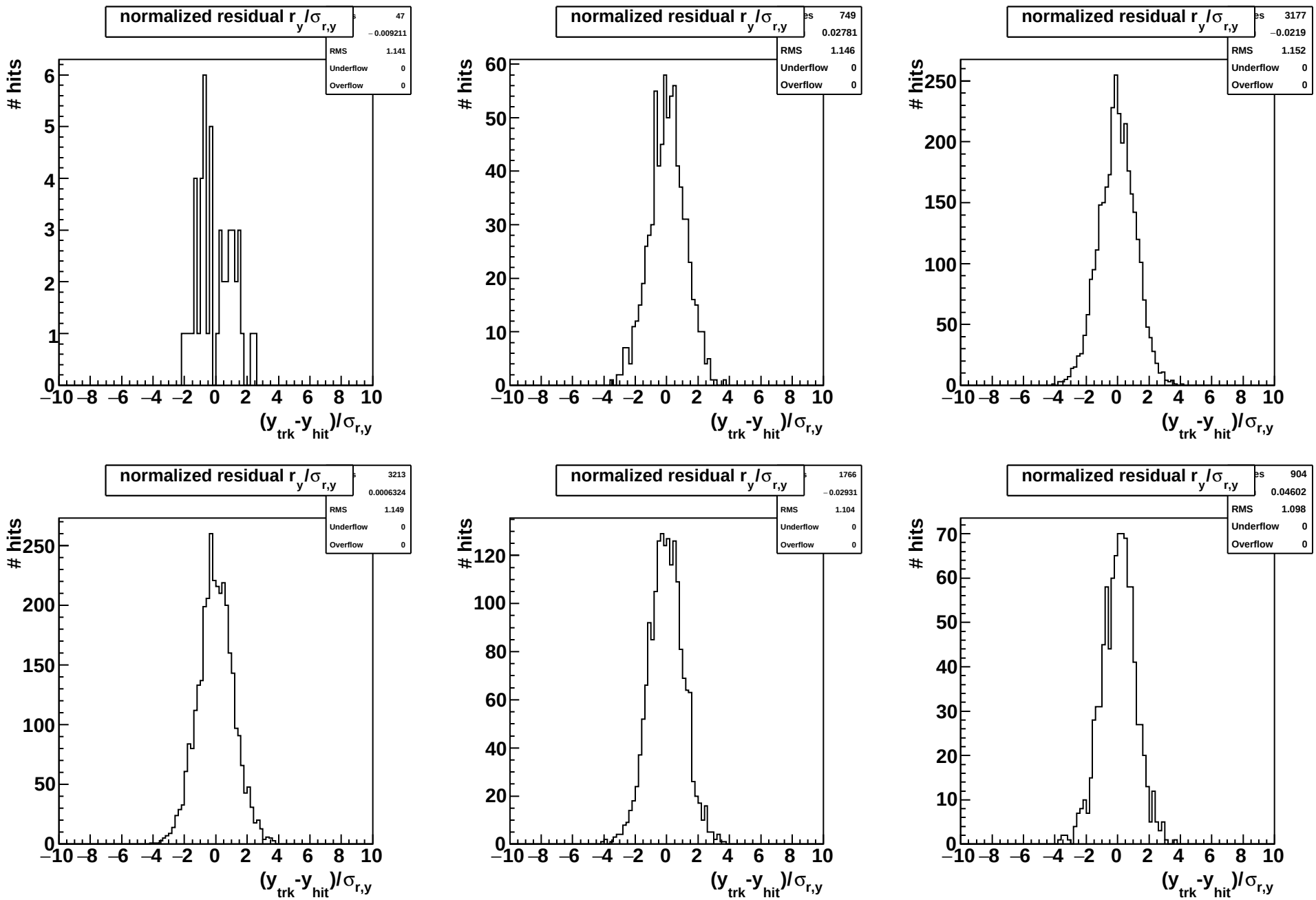

normalized residual $r_x/\sigma_{r,x}$
9034
0.01014
RMS 1.131
Underflow 0
Overflow 0
561
−0.03797
RMS 1.07
Underflow 0
Overflow 0
84
0.1419
RMS 1.04
Underflow 0
Overflow 0
62
0.1757
RMS 0.967
Underflow 0
Overflow 0
25
0.2459
RMS 0.8313
Underflow 0
Overflow 0
1
0.299
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

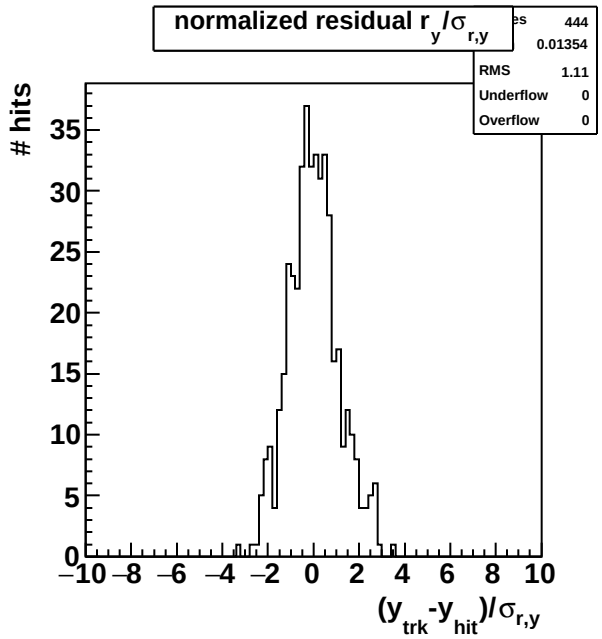

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

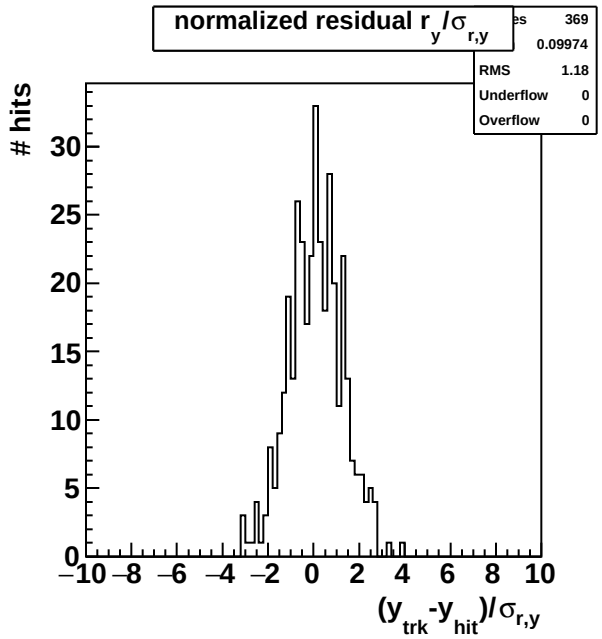

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

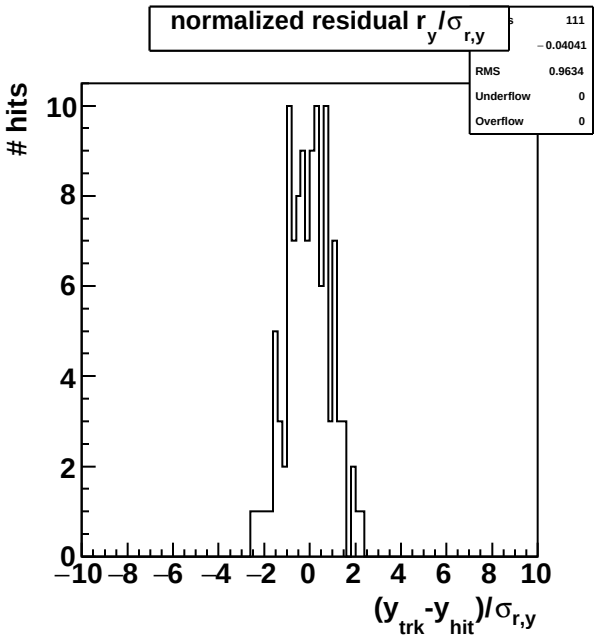

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

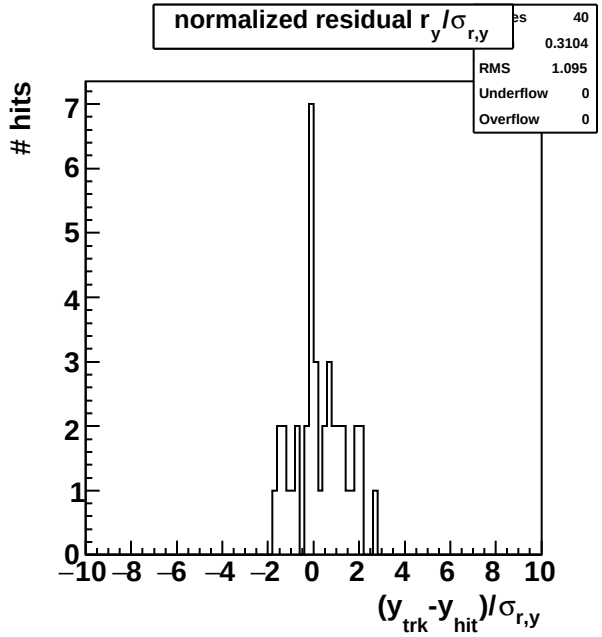

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

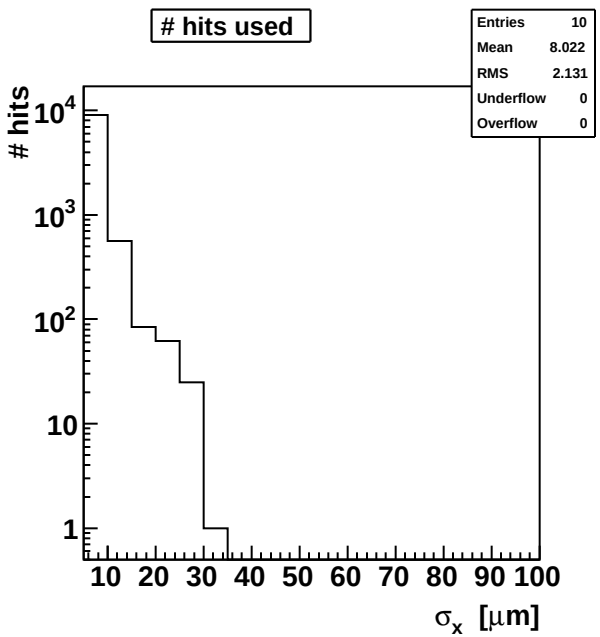

normalized residual $r_y/\sigma_{r,y}$
47
−0.009211
RMS 1.141
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
749
0.02781
RMS 1.146
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
3177
−0.0219
RMS 1.152
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
3213
0.0006324
RMS 1.149
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
1766
−0.02931
RMS 1.104
Underflow 0
Overflow 0
normalized residual $r_y/\sigma_{r,y}$
904
0.04602
RMS 1.098
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

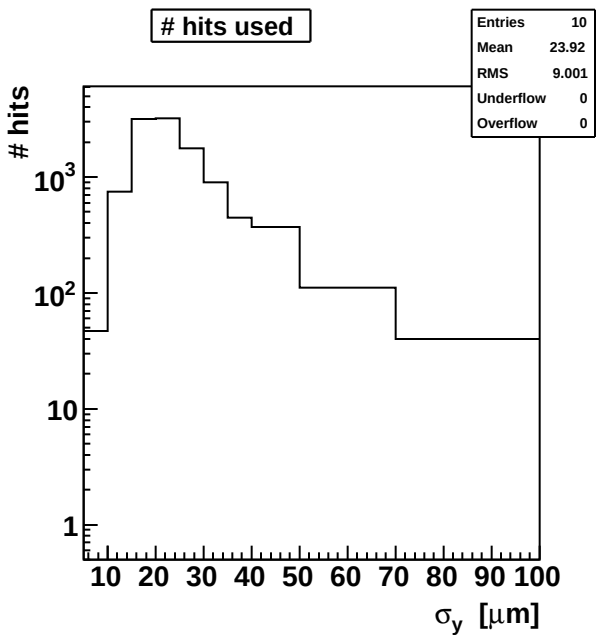

normalized residual $r_y/\sigma_{r,y}$
444
0.01354
RMS 1.11
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$


normalized residual $r_y/\sigma_{r,y}$
369
0.09974
RMS 1.18
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

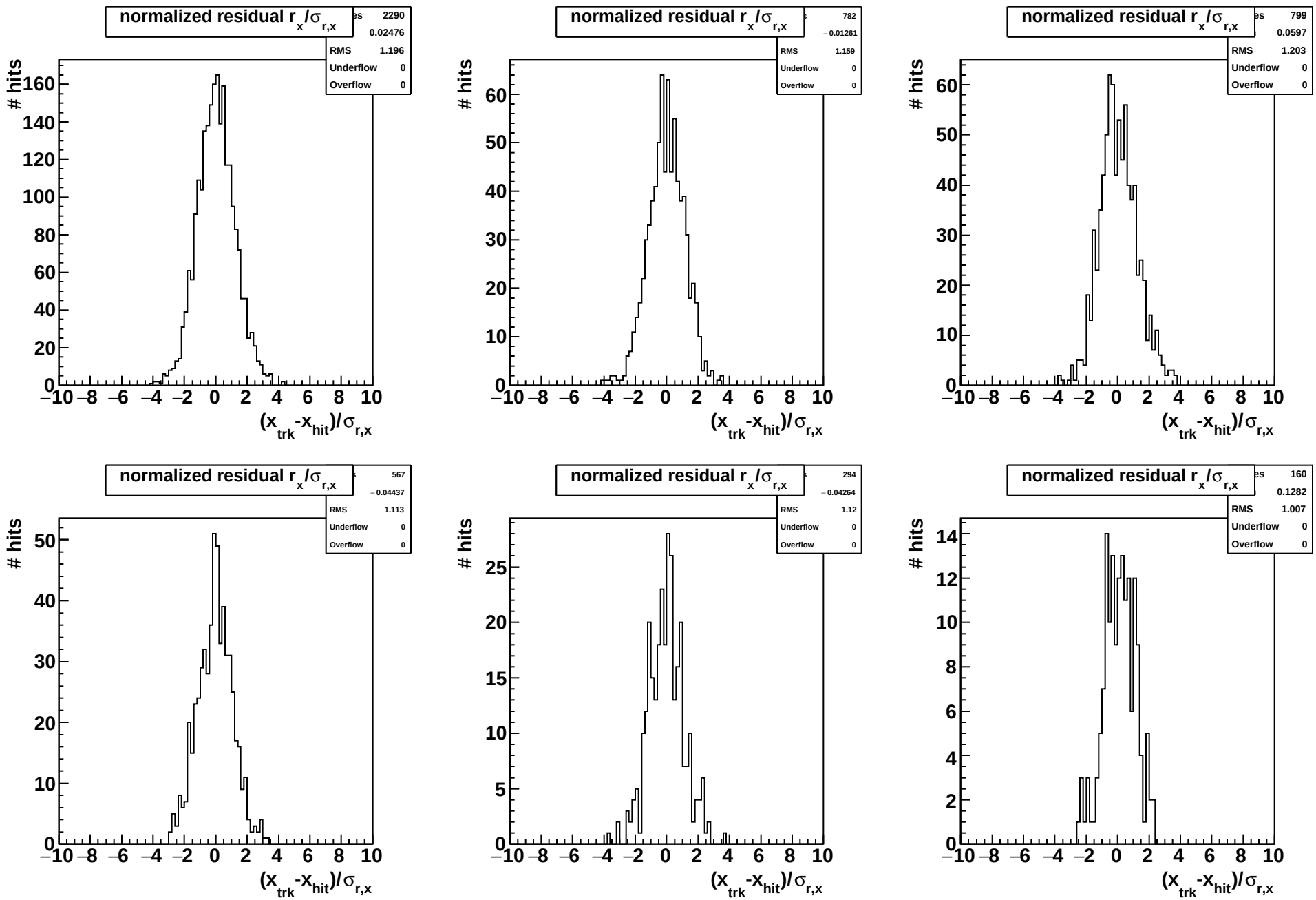

normalized residual $r_y/\sigma_{r,y}$
111
− 0.04041
RMS 0.9634
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

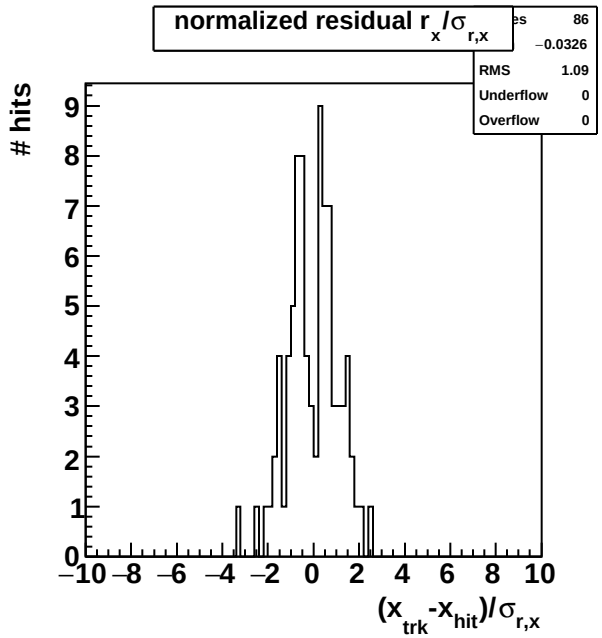

normalized residual $r_y/\sigma_{r,y}$
40
0.3104
RMS 1.095
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

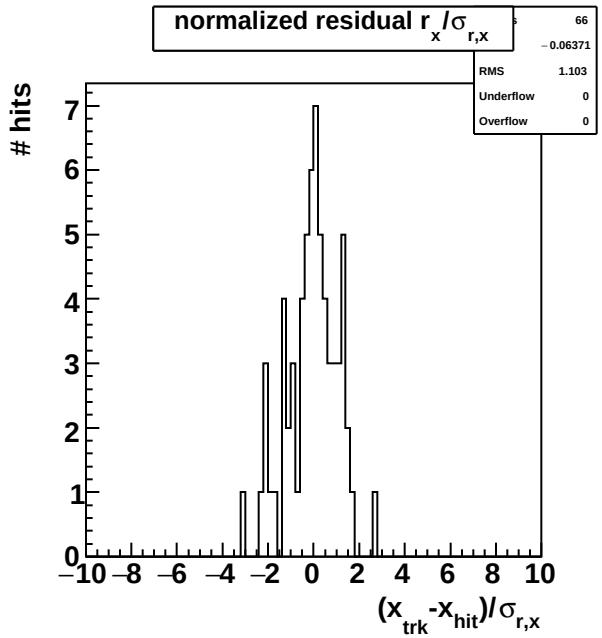

hits used
Entries 10
Mean 8.022
RMS 2.131
Underflow 0
Overflow 0
hits
10^4
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

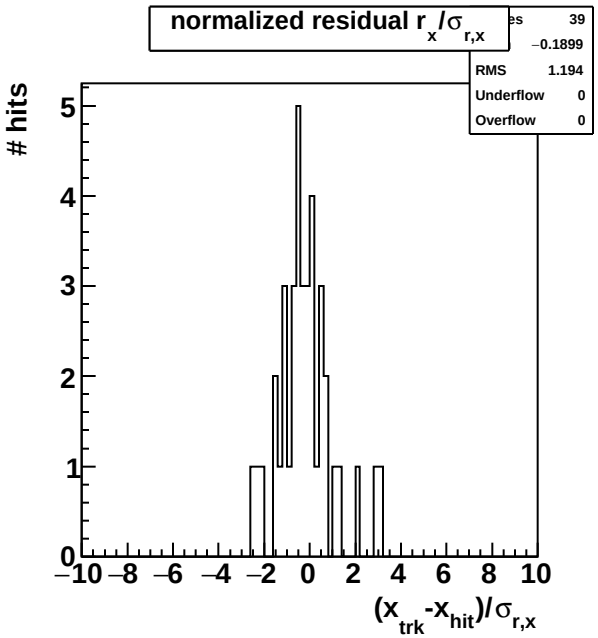

hits used
Entries 10
Mean 23.92
RMS 9.001
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

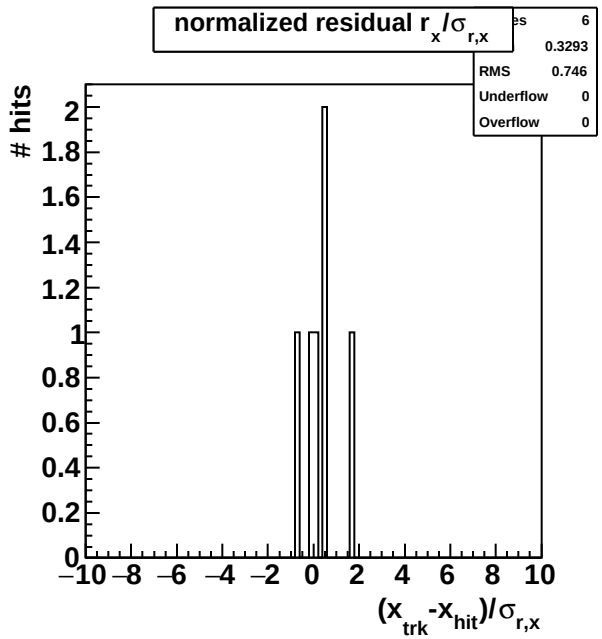
Sector_7/ -- FpixMinusLayer1

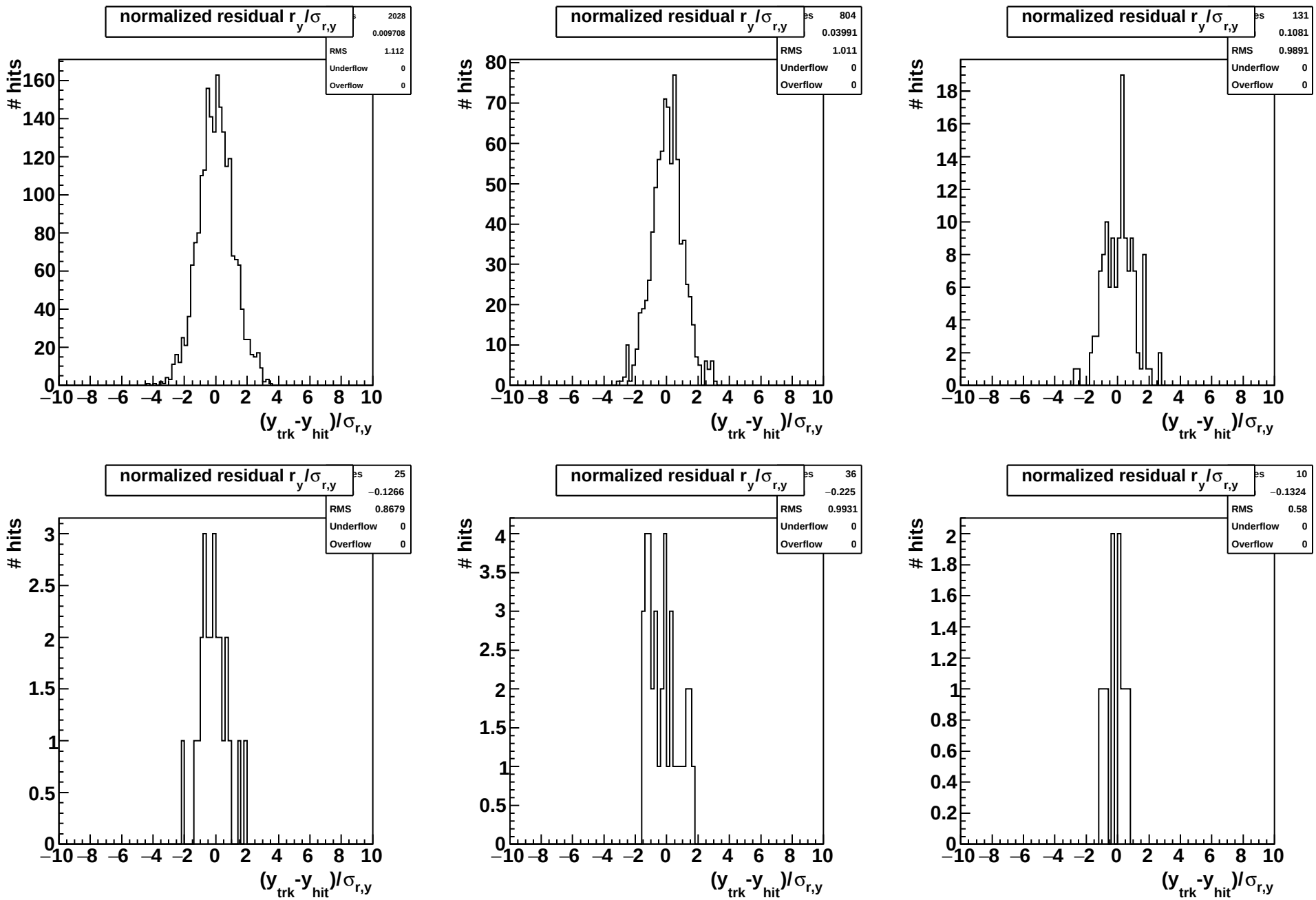

normalized residual $r_x/\sigma_{r,x}$
2290
0.02476
RMS 1.196
Underflow 0
Overflow 0
782
−0.01261
RMS 1.159
Underflow 0
Overflow 0
799
0.0597
RMS 1.203
Underflow 0
Overflow 0
567
−0.04437
RMS 1.113
Underflow 0
Overflow 0
294
−0.04264
RMS 1.12
Underflow 0
Overflow 0
160
0.1282
RMS 1.007
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

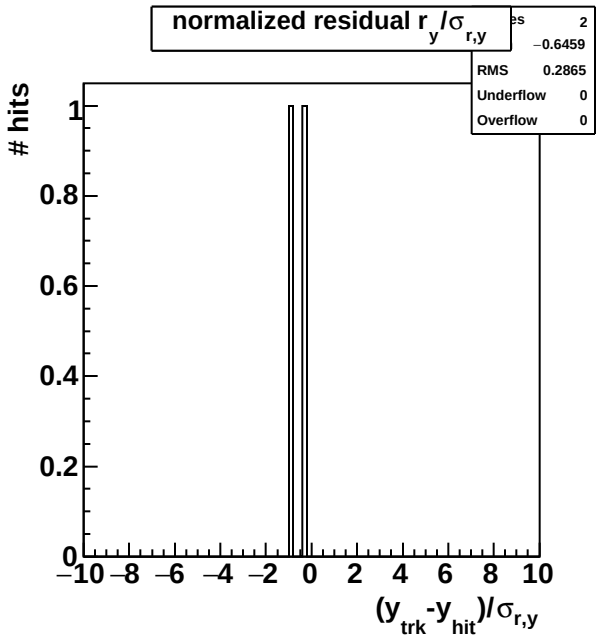

normalized residual $r_x/\sigma_{r,x}$
86
−0.0326
RMS 1.09
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

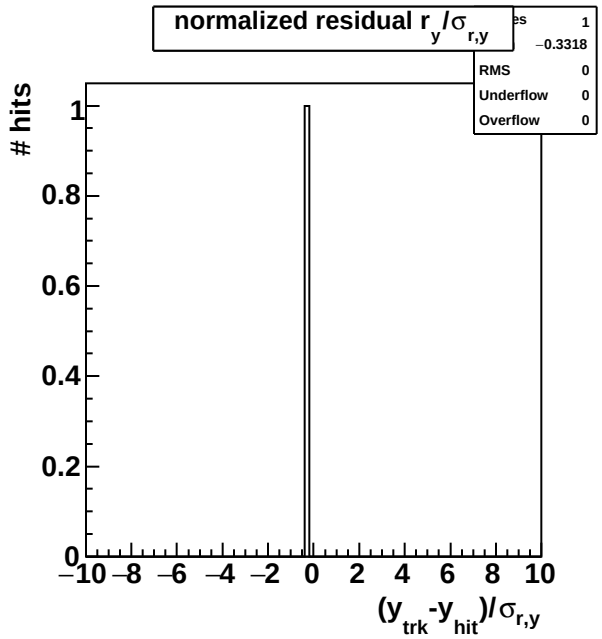

normalized residual $r_x/\sigma_{r,x}$
66
−0.06371
RMS 1.103
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

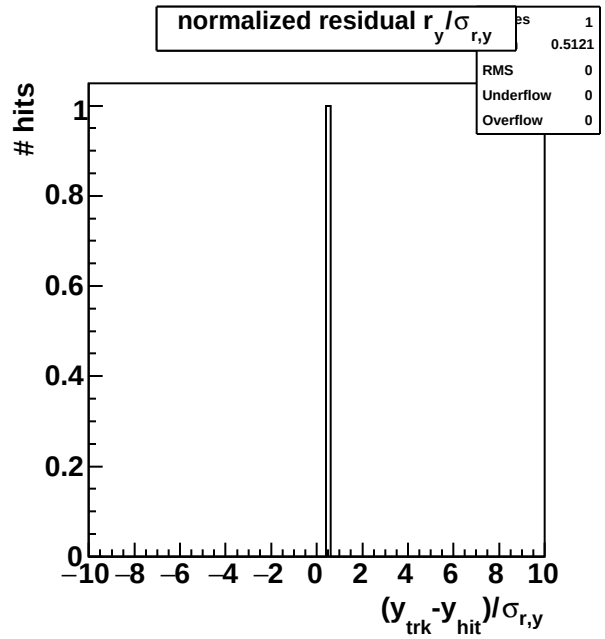

normalized residual $r_x/\sigma_{r,x}$
39
−0.1899
RMS 1.194
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

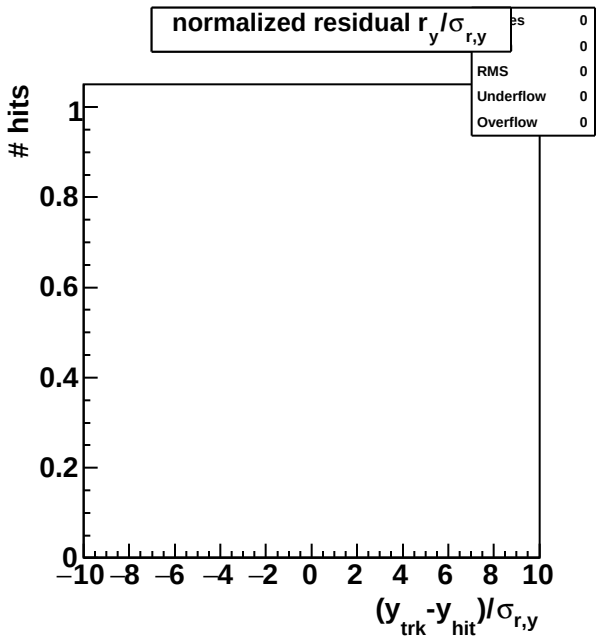

normalized residual $r_x/\sigma_{r,x}$
6
0.3293
RMS 0.746
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

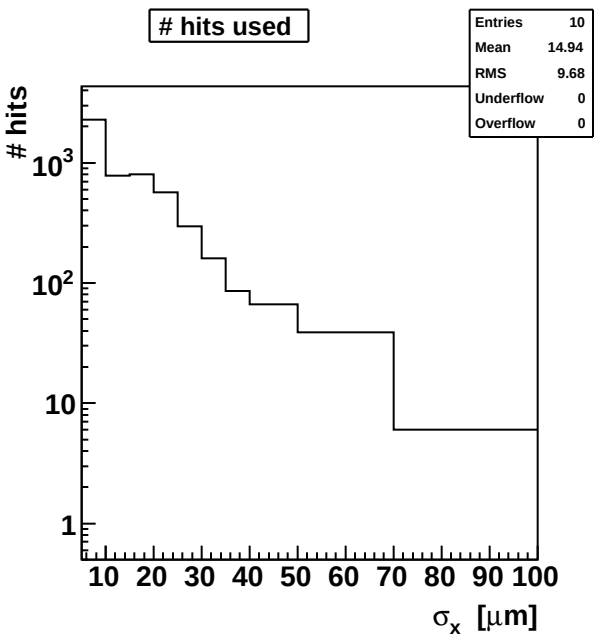

normalized residual $r_y/\sigma_{r,y}$
2028
0.009708
RMS 1.112
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
804
0.03991
RMS 1.011
Underflow 0
Overflow 0
131
0.1081
RMS 0.9891
Underflow 0
Overflow 0
25
−0.1266
RMS 0.8679
Underflow 0
Overflow 0
36
−0.225
RMS 0.9931
Underflow 0
Overflow 0
10
−0.1324
RMS 0.58
Underflow 0
Overflow 0

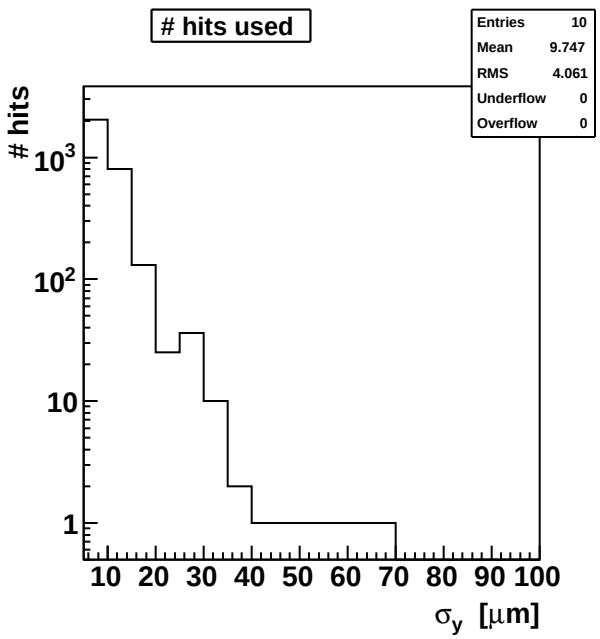

normalized residual $r_y/\sigma_{r,y}$
es 2
−0.6459
RMS 0.2865
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$


normalized residual $r_y/\sigma_{r,y}$
es 1
−0.3318
RMS 0
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

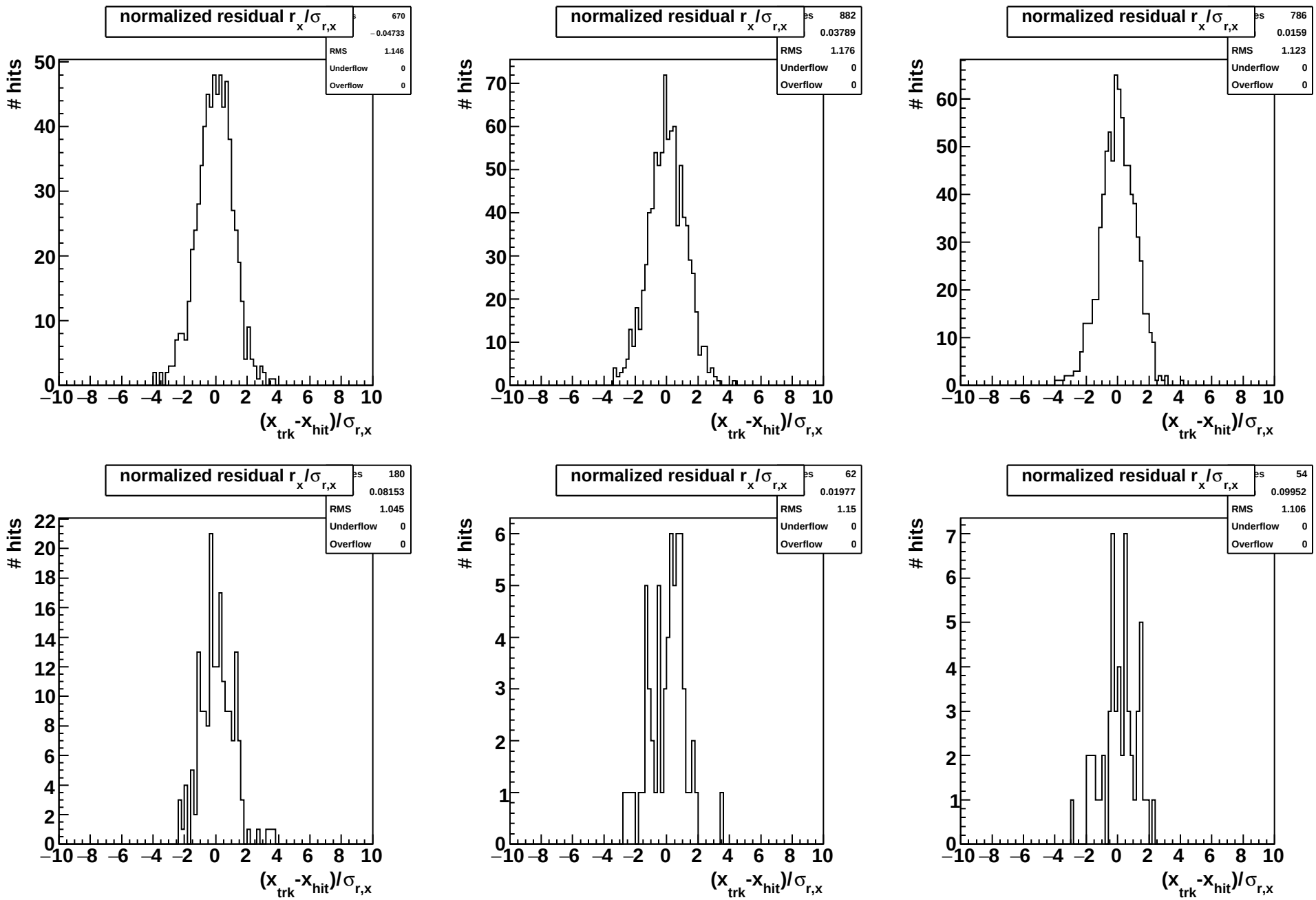

normalized residual $r_y/\sigma_{r,y}$
es 1
0.5121
RMS 0
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

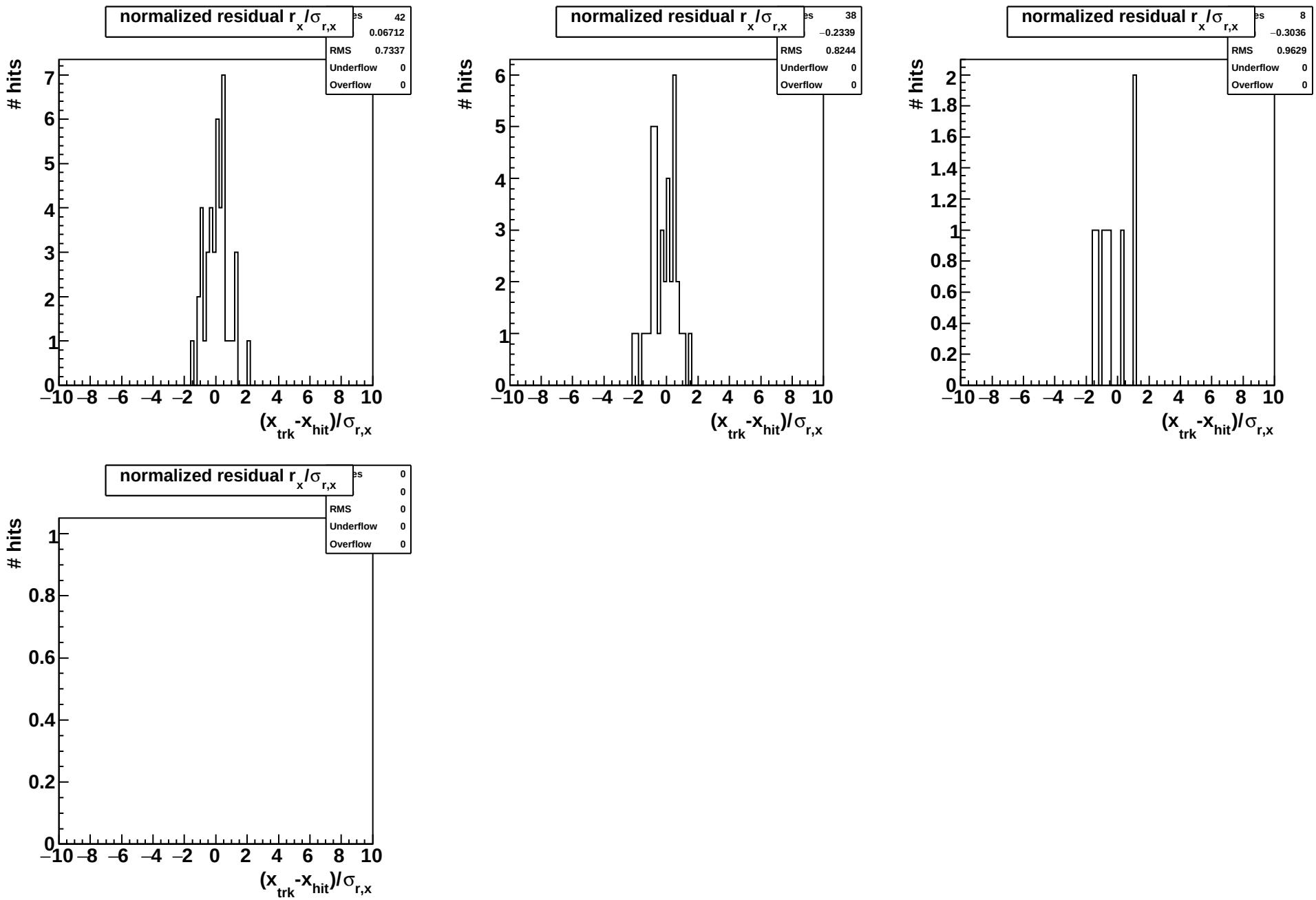

normalized residual $r_y/\sigma_{r,y}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

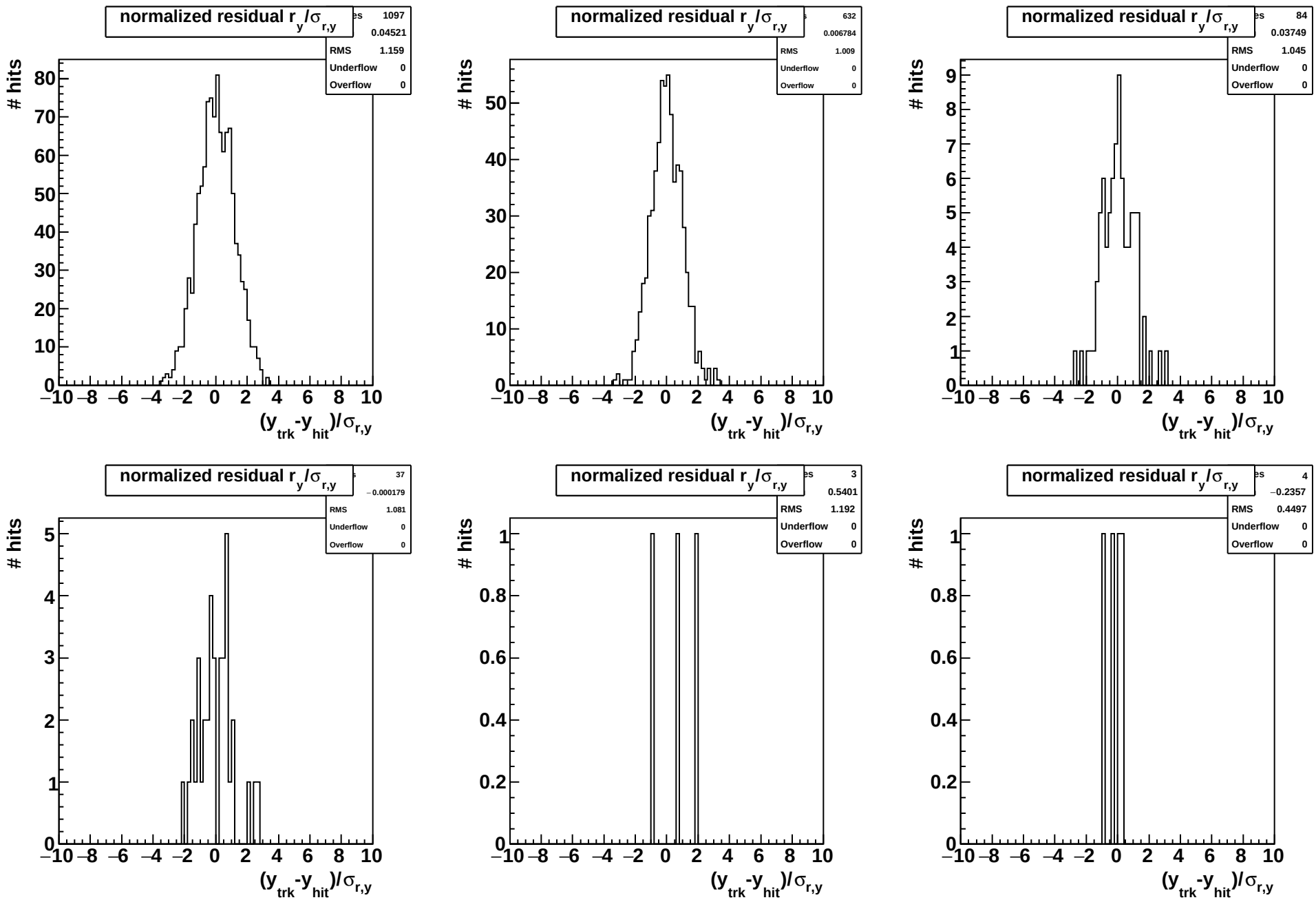

hits used
Entries 10
Mean 14.94
RMS 9.68
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

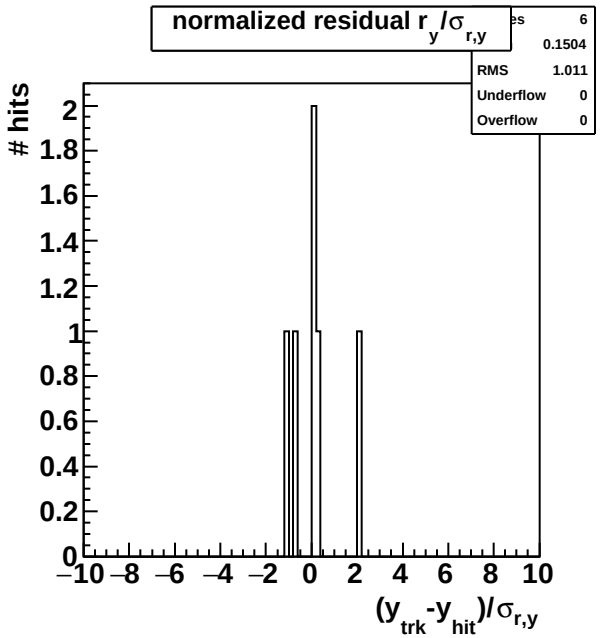

hits used
Entries 10
Mean 9.747
RMS 4.061
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

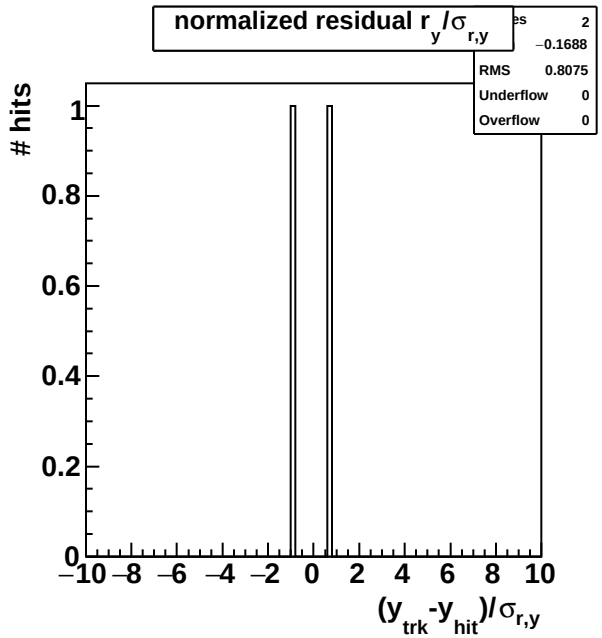
Sector_8/ -- FpixMinusLayer2

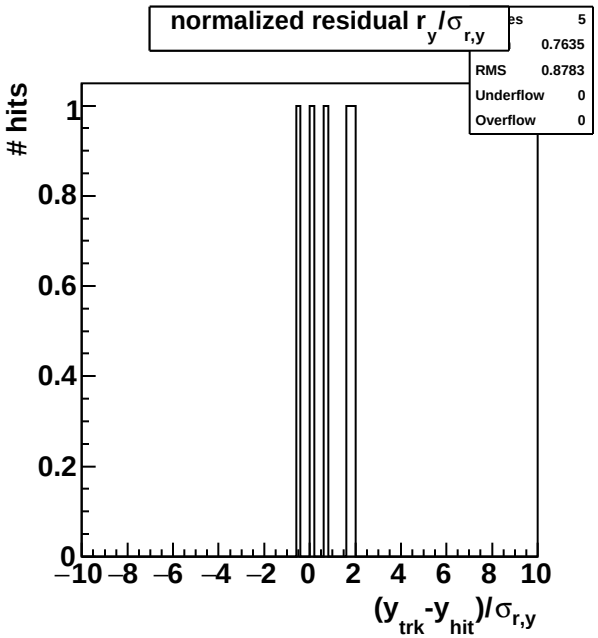

normalized residual $r_x/\sigma_{r,x}$
670
−0.04733
RMS 1.146
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
882
0.03789
RMS 1.176
Underflow 0
Overflow 0
786
0.0159
RMS 1.123
Underflow 0
Overflow 0
180
0.08153
RMS 1.045
Underflow 0
Overflow 0
62
0.01977
RMS 1.15
Underflow 0
Overflow 0
54
0.09952
RMS 1.106
Underflow 0
Overflow 0

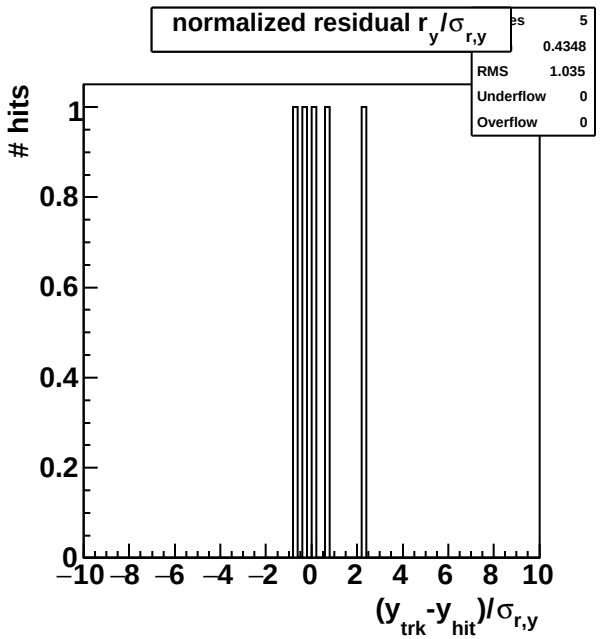

normalized residual $r_x/\sigma_{r,x}$
42
0.06712
RMS 0.7337
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
38
−0.2339
RMS 0.8244
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
8
−0.3036
RMS 0.9629
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

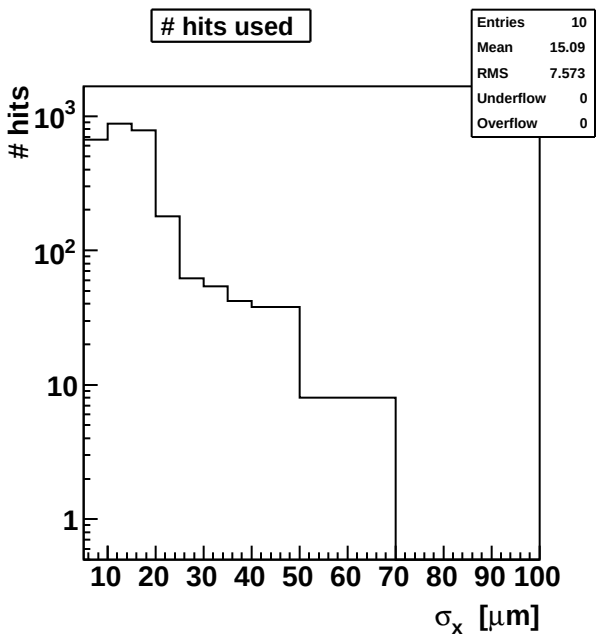

normalized residual $r_y/\sigma_{r,y}$
1097
0.04521
RMS 1.159
Underflow 0
Overflow 0
632
0.006784
RMS 1.009
Underflow 0
Overflow 0
84
0.03749
RMS 1.045
Underflow 0
Overflow 0
37
−0.000179
RMS 1.081
Underflow 0
Overflow 0
3
0.5401
RMS 1.192
Underflow 0
Overflow 0
4
−0.2357
RMS 0.4497
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

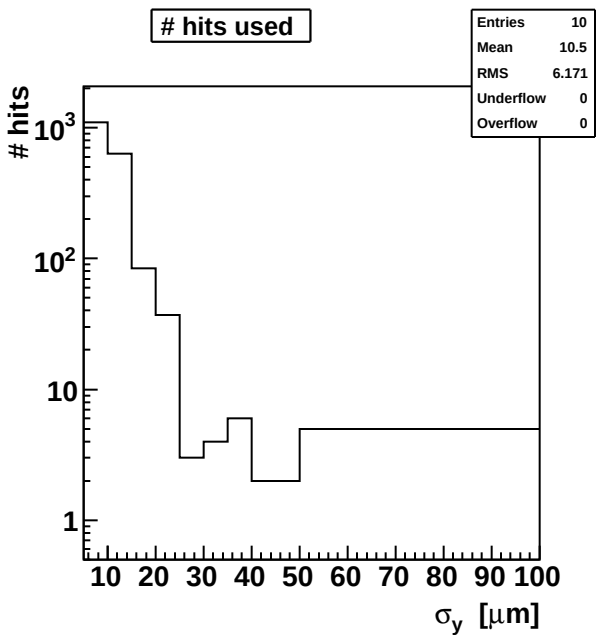

normalized residual $r_y/\sigma_{r,y}$
es 6
0.1504
RMS 1.011
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$


normalized residual $r_y/\sigma_{r,y}$
es 2
−0.1688
RMS 0.8075
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

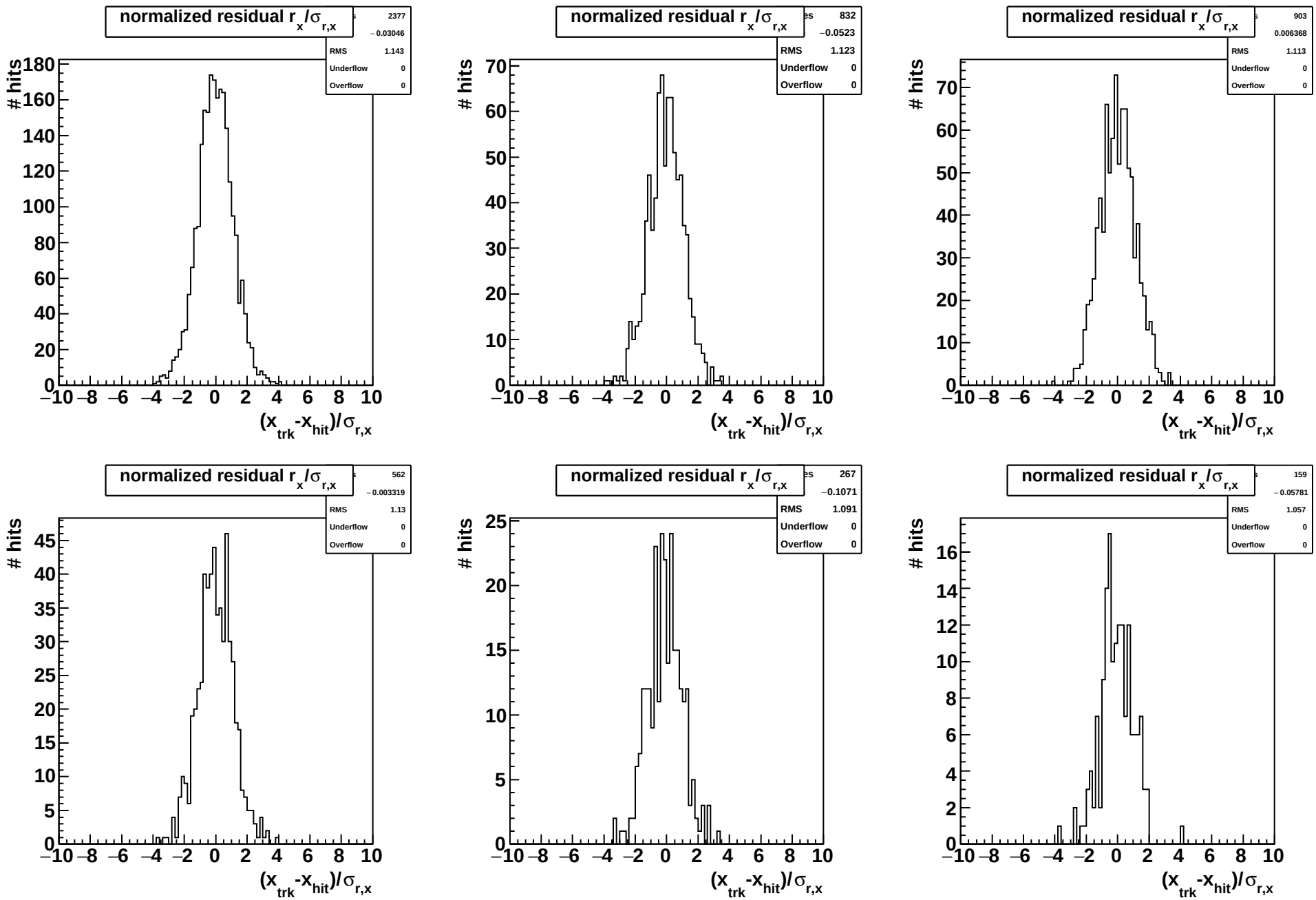

normalized residual $r_y/\sigma_{r,y}$
es 5
0.7635
RMS 0.8783
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

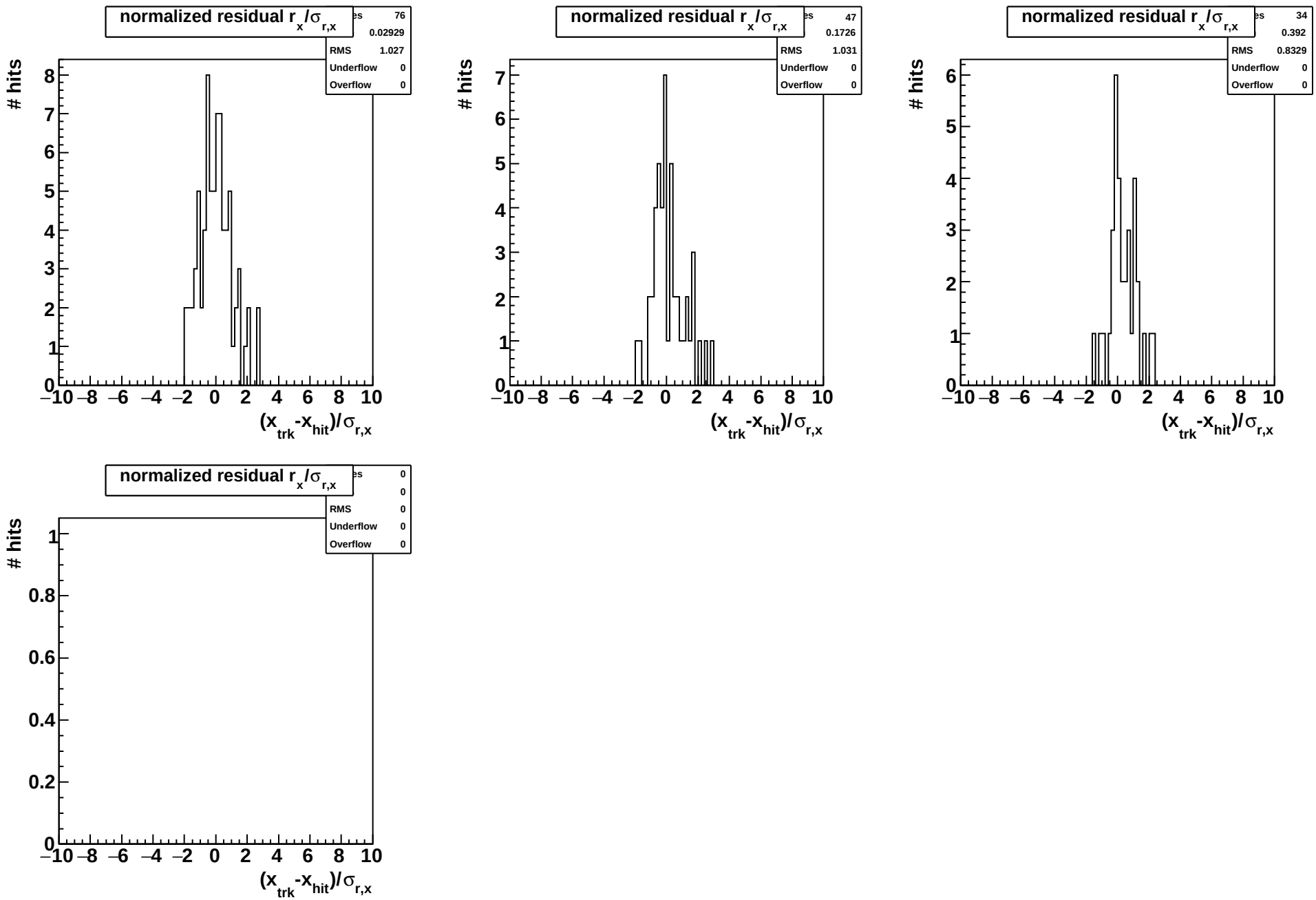

normalized residual $r_y/\sigma_{r,y}$
es 5
0.4348
RMS 1.035
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

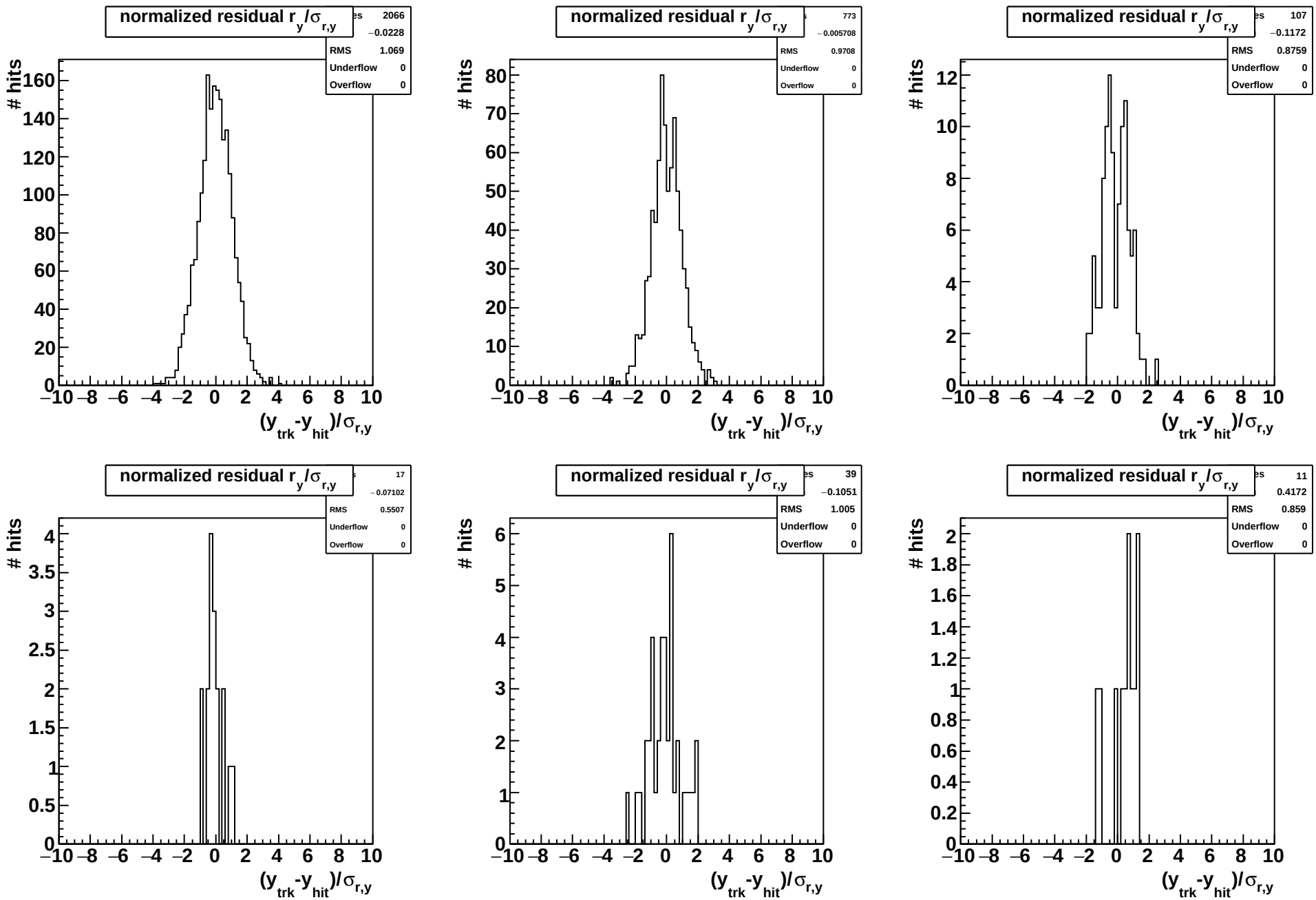

hits used
Entries 10
Mean 15.09
RMS 7.573
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

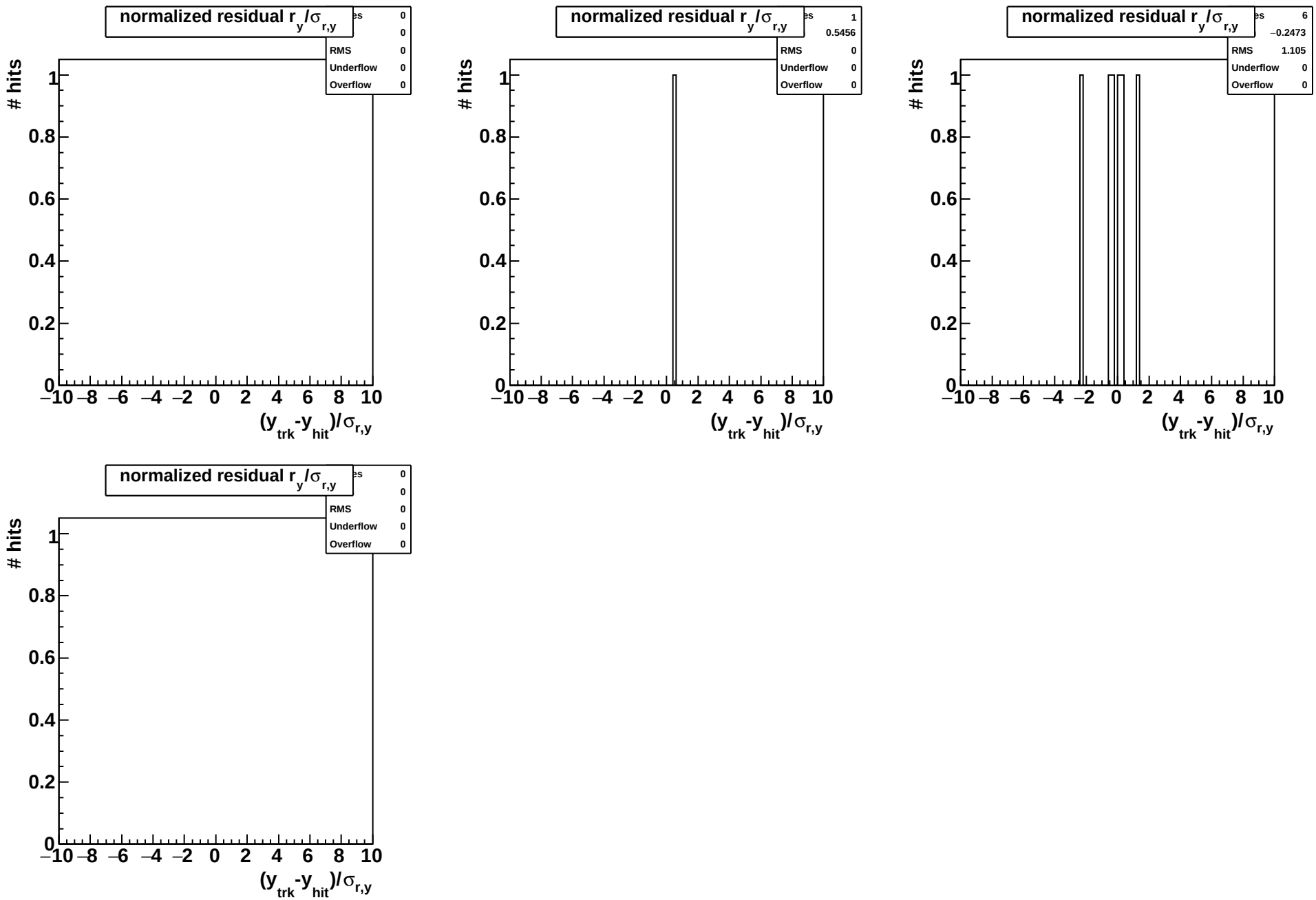

hits used
Entries 10
Mean 10.5
RMS 6.171
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

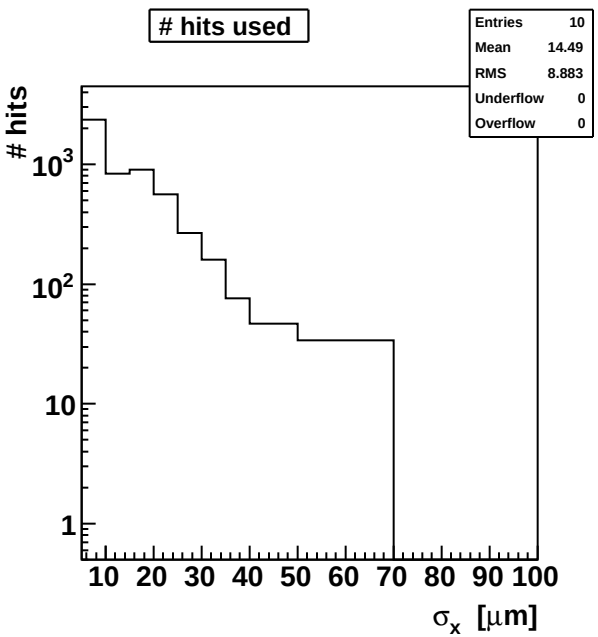
Sector_9/ -- FpixPlusLayer1

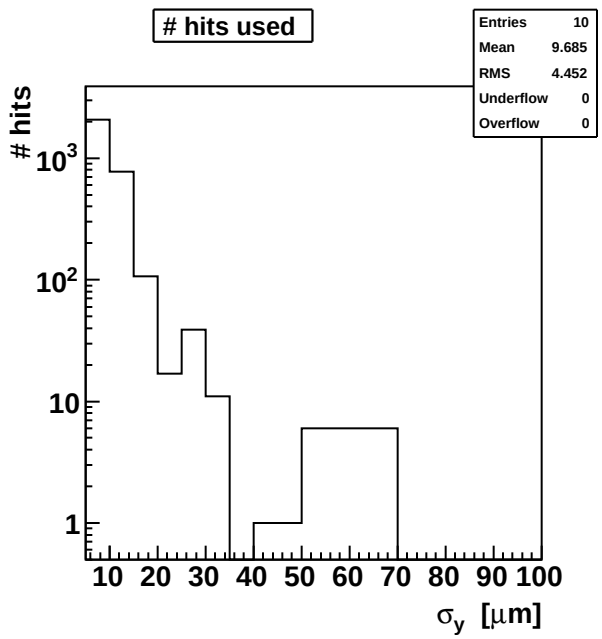

normalized residual $r_x/\sigma_{r,x}$
2377
−0.03046
RMS 1.143
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
832
−0.0523
RMS 1.123
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
903
0.006368
RMS 1.113
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
562
−0.003319
RMS 1.13
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
267
−0.1071
RMS 1.091
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
159
−0.05781
RMS 1.057
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
76
0.02929
RMS 1.027
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
47
0.1726
RMS 1.031
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
34
0.392
RMS 0.8329
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

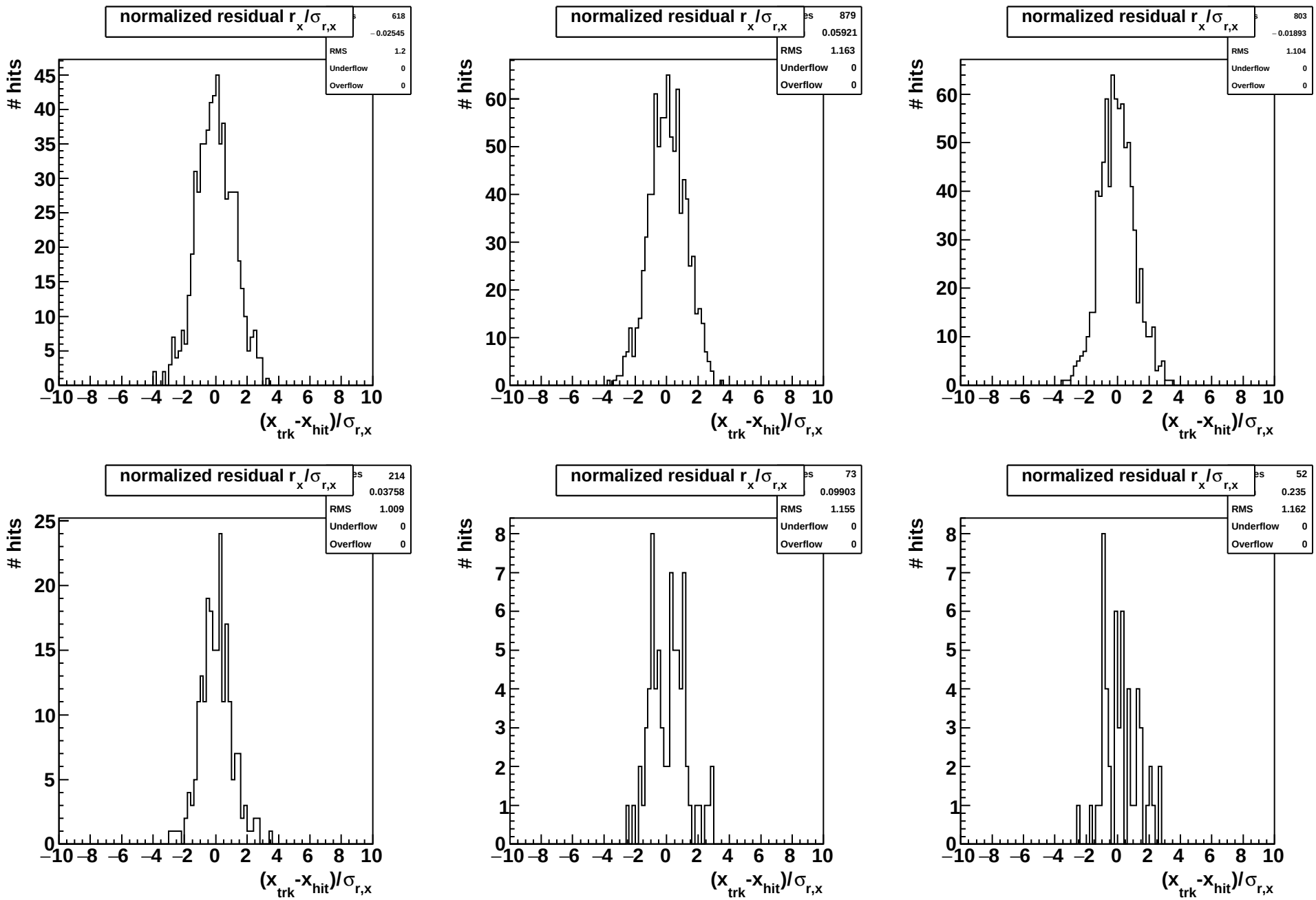

normalized residual $r_y/\sigma_{r,y}$
2066
−0.0228
RMS 1.069
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
773
−0.005708
RMS 0.9708
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
107
−0.1172
RMS 0.8759
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
17
−0.07102
RMS 0.5507
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
39
−0.1051
RMS 1.005
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
11
0.4172
RMS 0.859
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

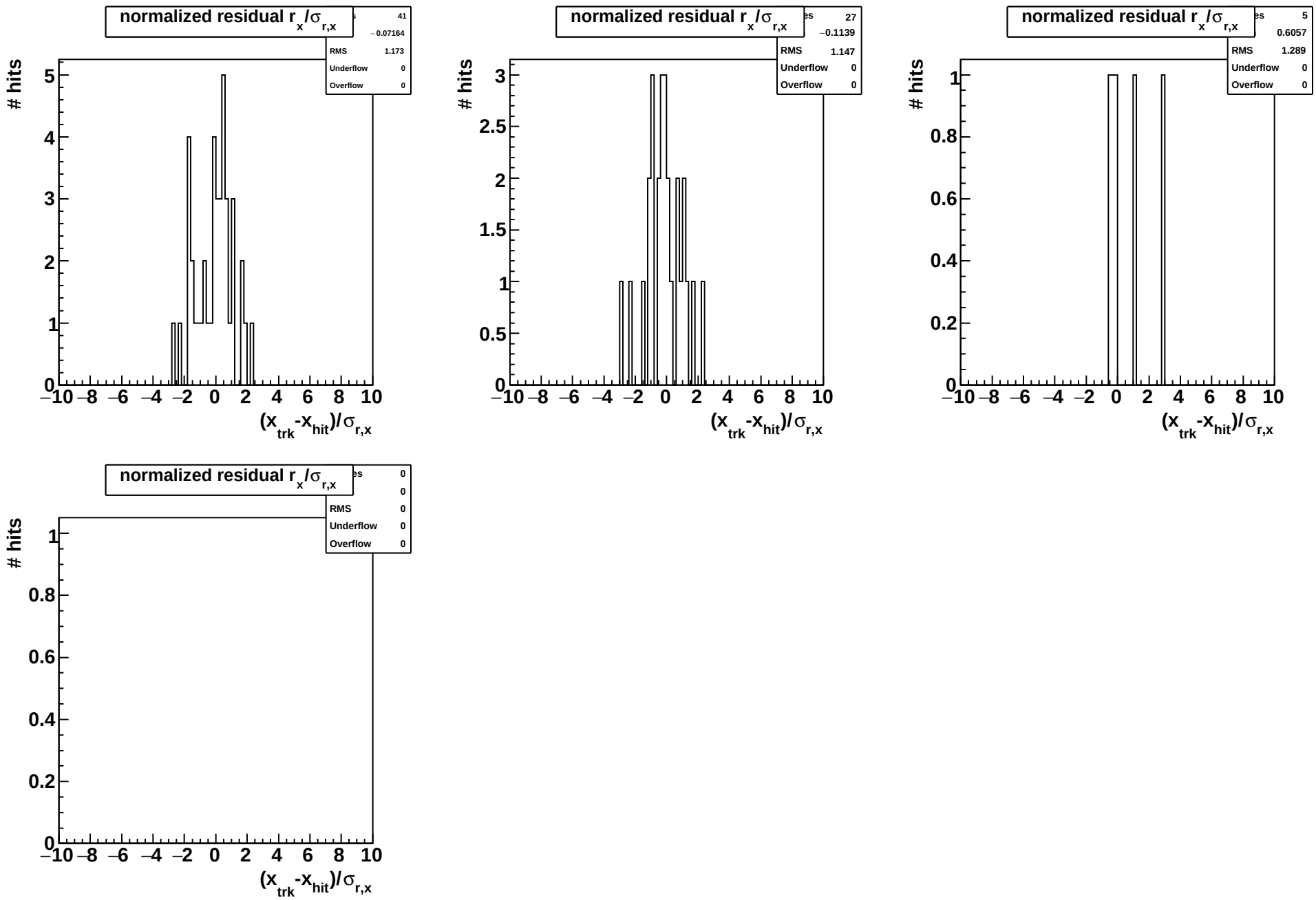

normalized residual $r_y/\sigma_{r,y}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
es 1
0.5456
RMS 0
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
es 6
−0.2473
RMS 1.105
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$
normalized residual $r_y/\sigma_{r,y}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

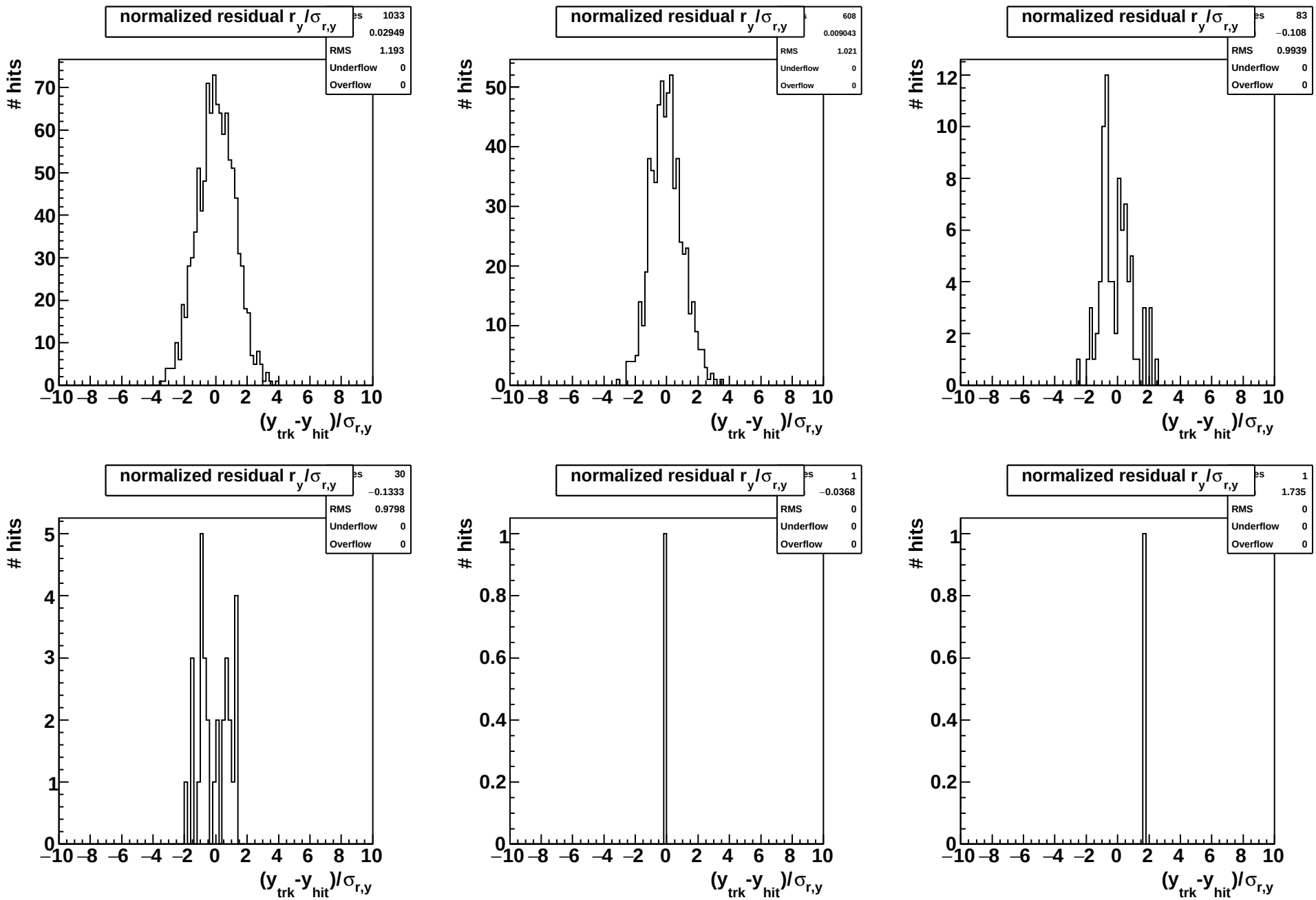

hits used
Entries 10
Mean 14.49
RMS 8.883
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

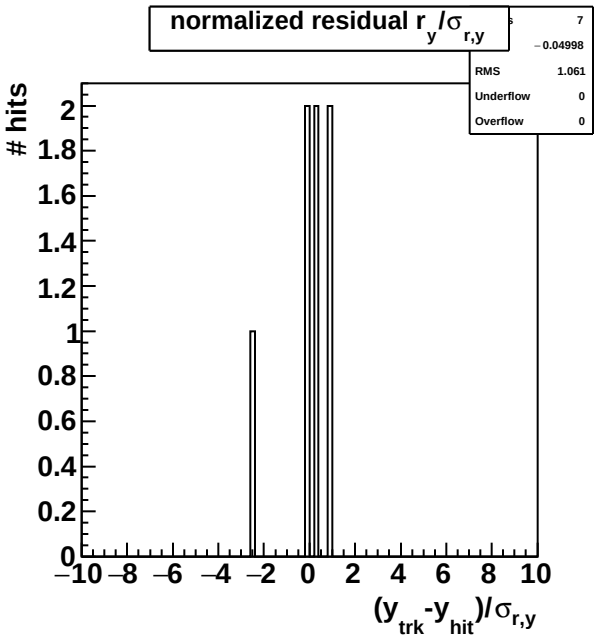

hits used
Entries 10
Mean 9.685
RMS 4.452
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

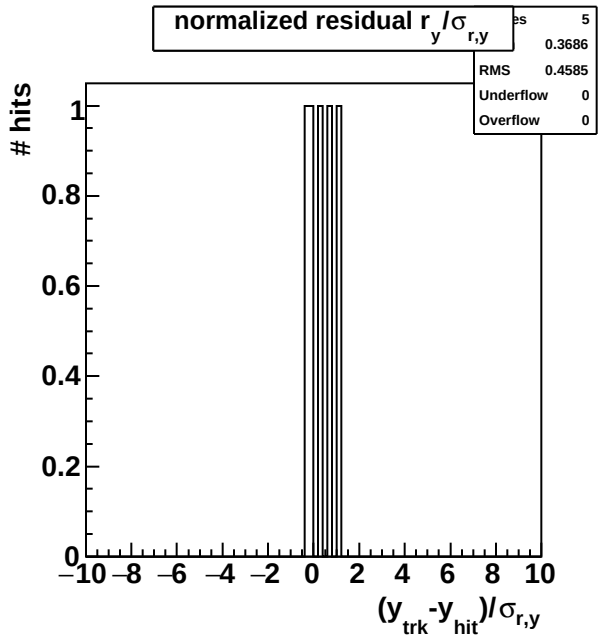
Sector_10/ -- FpixPlusLayer2

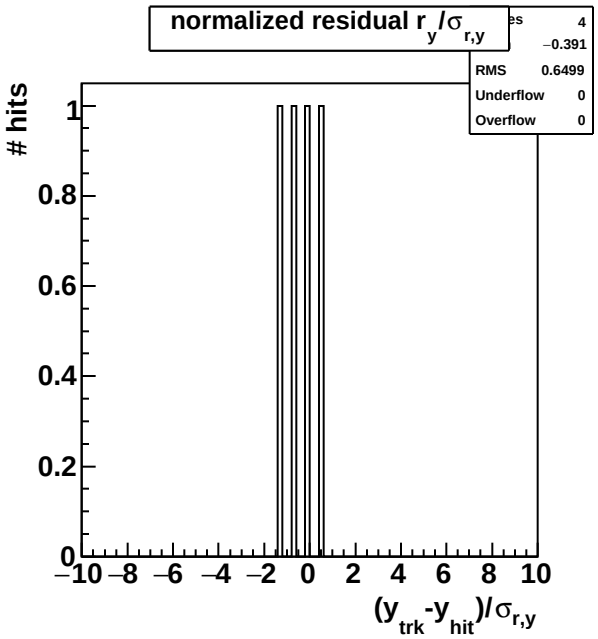

normalized residual $r_x/\sigma_{r,x}$
618
−0.02545
RMS 1.2
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
879
0.05921
RMS 1.163
Underflow 0
Overflow 0
803
−0.01893
RMS 1.104
Underflow 0
Overflow 0
214
0.03758
RMS 1.009
Underflow 0
Overflow 0
73
0.09903
RMS 1.155
Underflow 0
Overflow 0
52
0.235
RMS 1.162
Underflow 0
Overflow 0

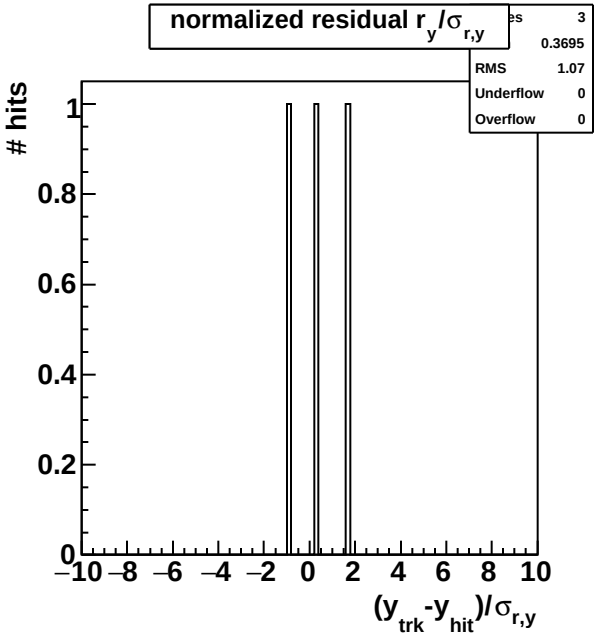

normalized residual $r_x/\sigma_{r,x}$
41
−0.07164
RMS 1.173
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
27
−0.1139
RMS 1.147
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
5
0.6057
RMS 1.289
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

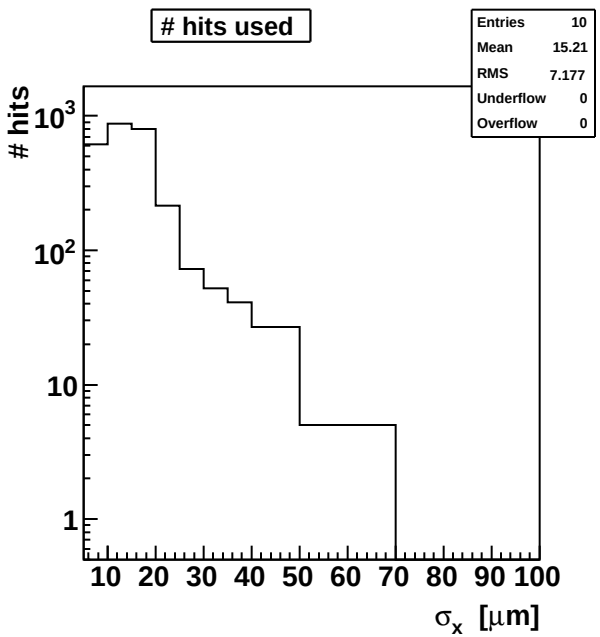

normalized residual $r_y/\sigma_{r,y}$
1033
0.02949
RMS 1.193
Underflow 0
Overflow 0
608
0.009043
RMS 1.021
Underflow 0
Overflow 0
83
−0.108
RMS 0.9939
Underflow 0
Overflow 0
30
−0.1333
RMS 0.9798
Underflow 0
Overflow 0
1
−0.0368
RMS 0
Underflow 0
Overflow 0
1
1.735
RMS 0
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

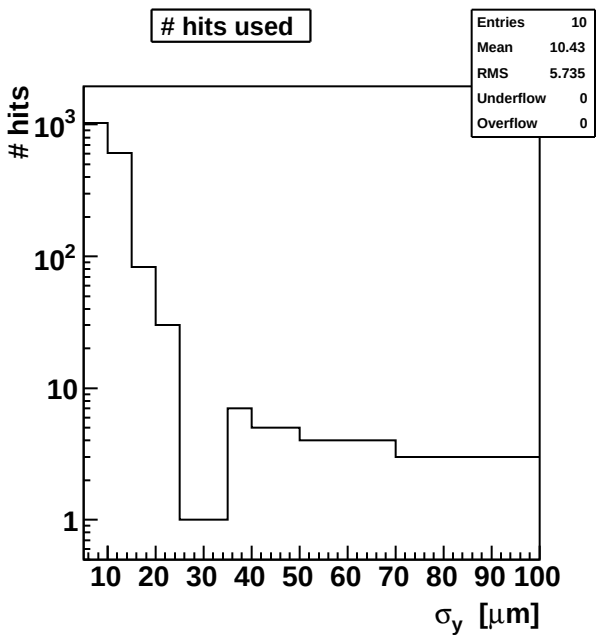

normalized residual $r_y/\sigma_{r,y}$
7
−0.04998
RMS 1.061
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$


normalized residual $r_y/\sigma_{r,y}$
5
0.3686
RMS 0.4585
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

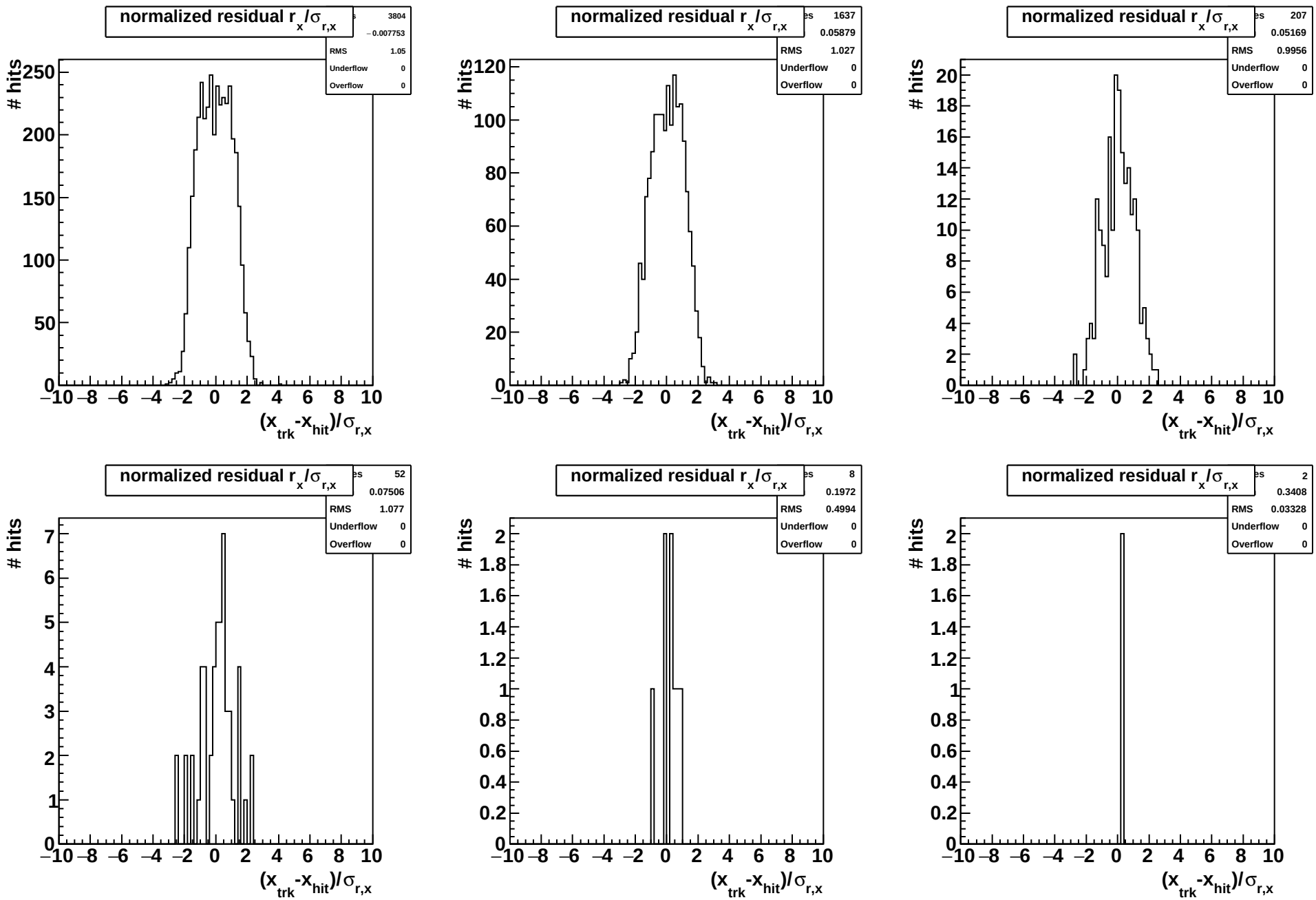

normalized residual $r_y/\sigma_{r,y}$
4
−0.391
RMS 0.6499
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

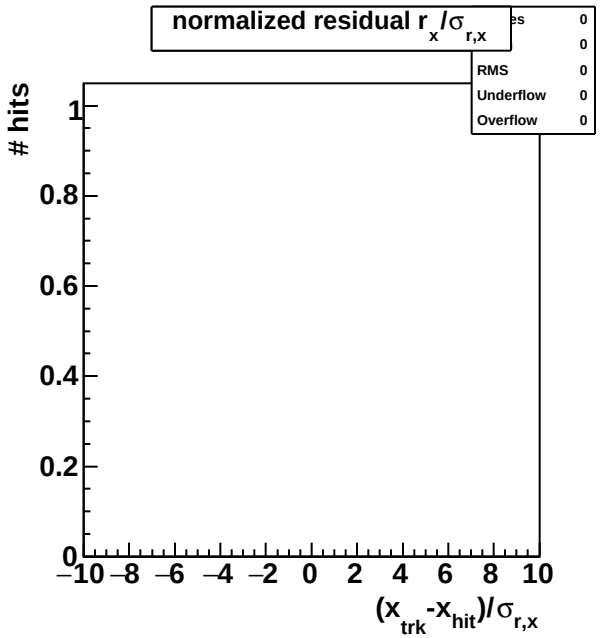

normalized residual $r_y/\sigma_{r,y}$
3
0.3695
RMS 1.07
Underflow 0
Overflow 0
hits
$(y_{trk}-y_{hit})/\sigma_{r,y}$

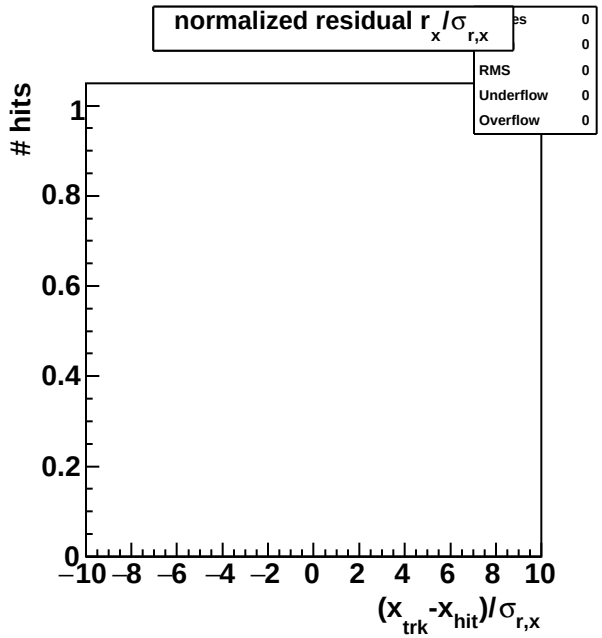

hits used
Entries 10
Mean 15.21
RMS 7.177
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

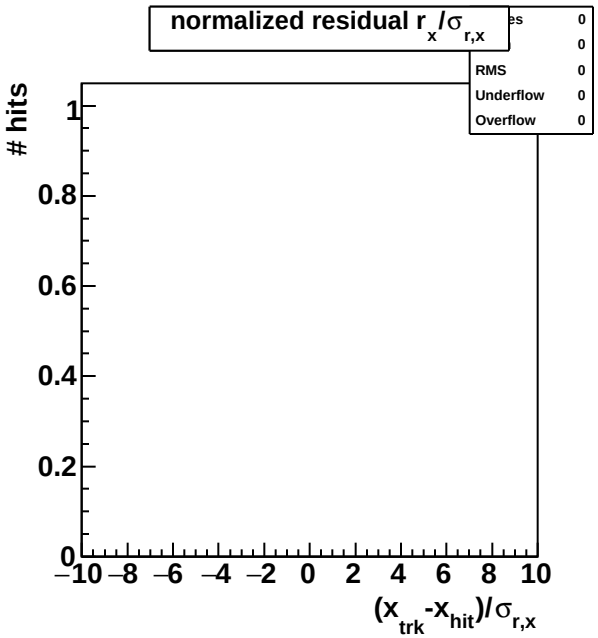

hits used
Entries 10
Mean 10.43
RMS 5.735
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_y [μm]

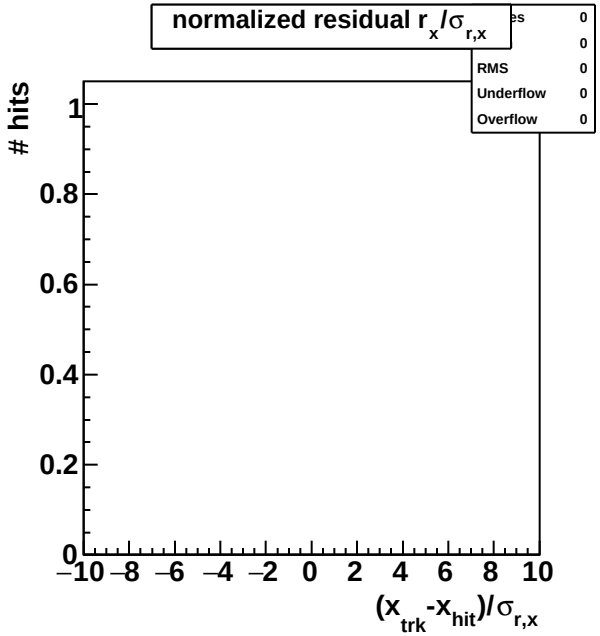
Sector_11/ -- TibLayer1RphiOut

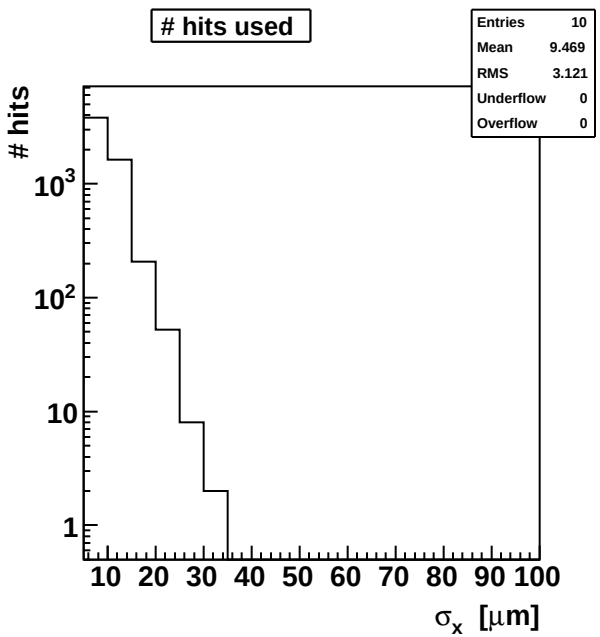

normalized residual $r_x/\sigma_{r,x}$
3804
−0.007753
RMS 1.05
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1637
0.05879
RMS 1.027
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
207
0.05169
RMS 0.9956
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
52
0.07506
RMS 1.077
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
8
0.1972
RMS 0.4994
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2
0.3408
RMS 0.03328
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

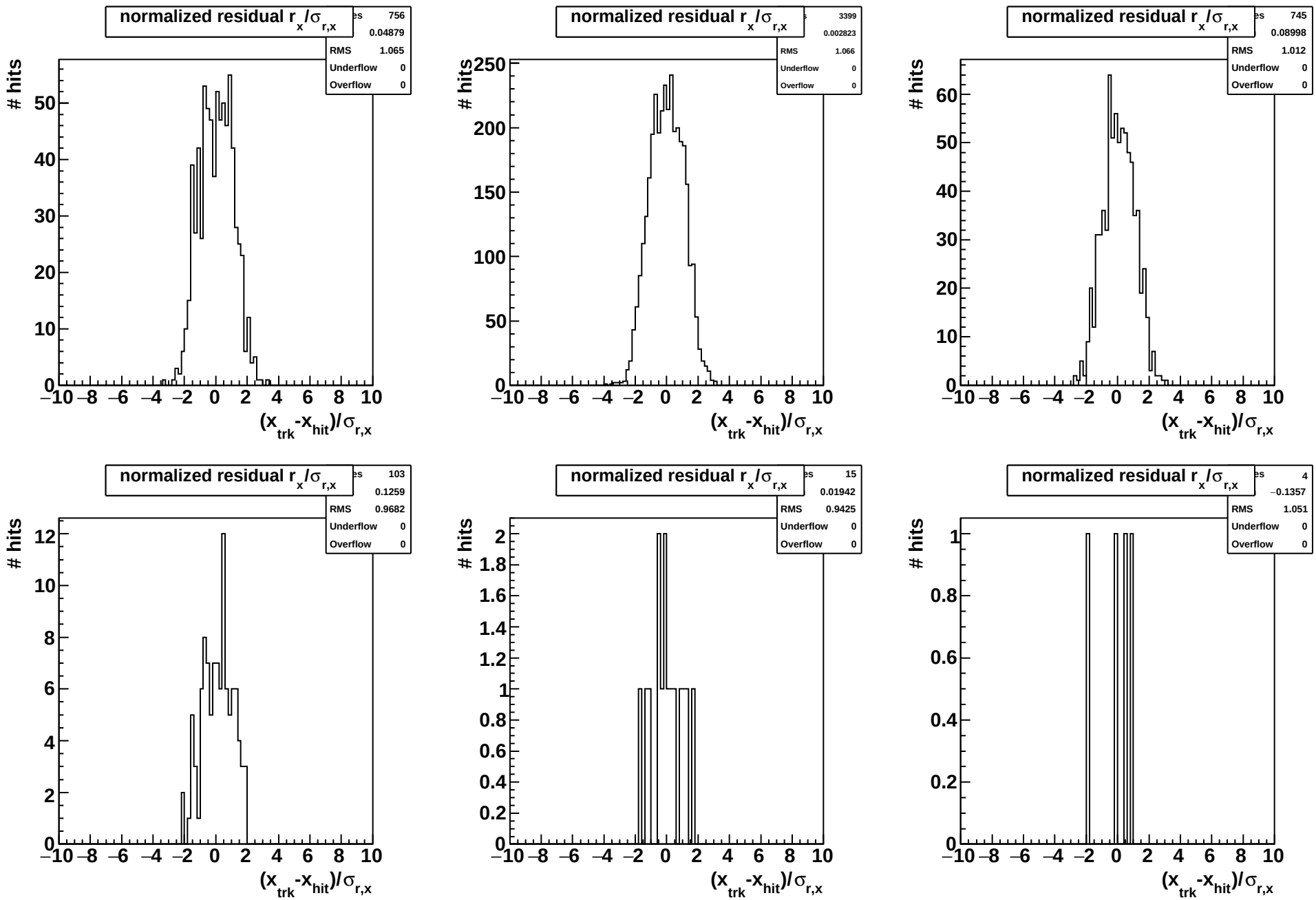

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

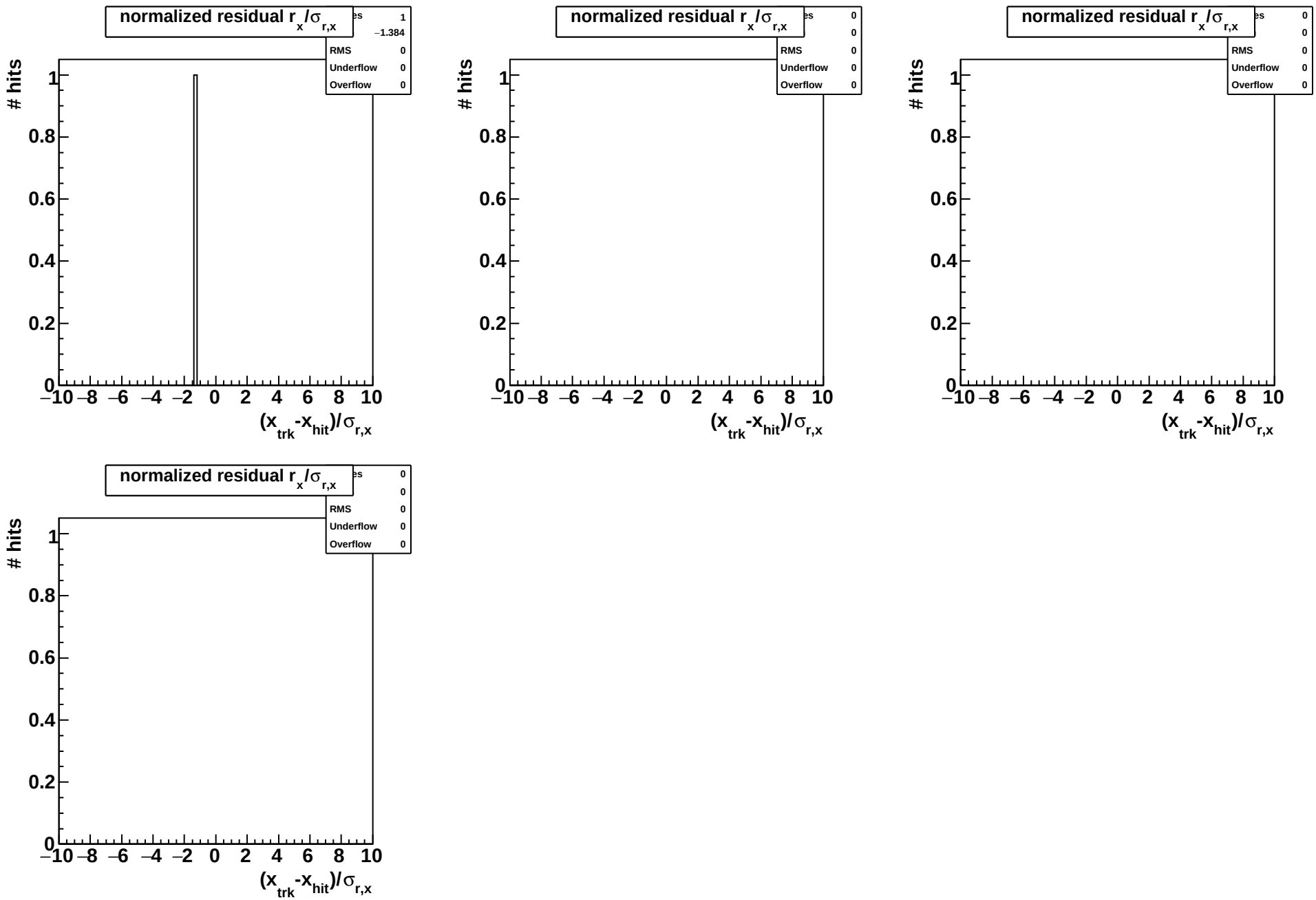

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

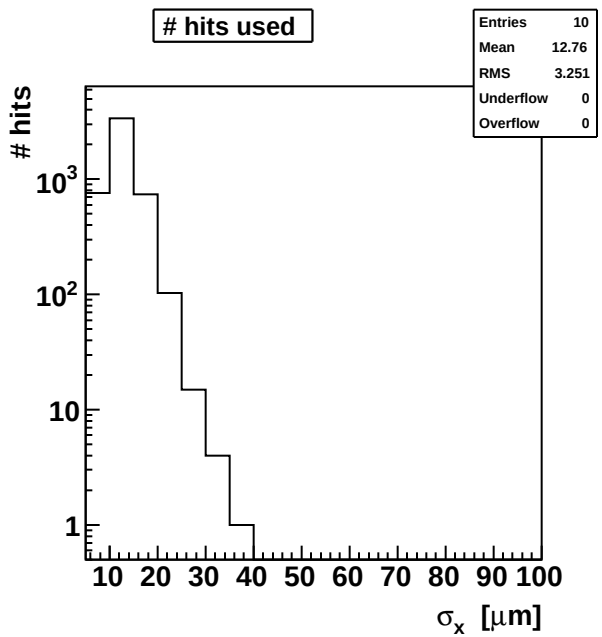

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 9.469
RMS 3.121
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

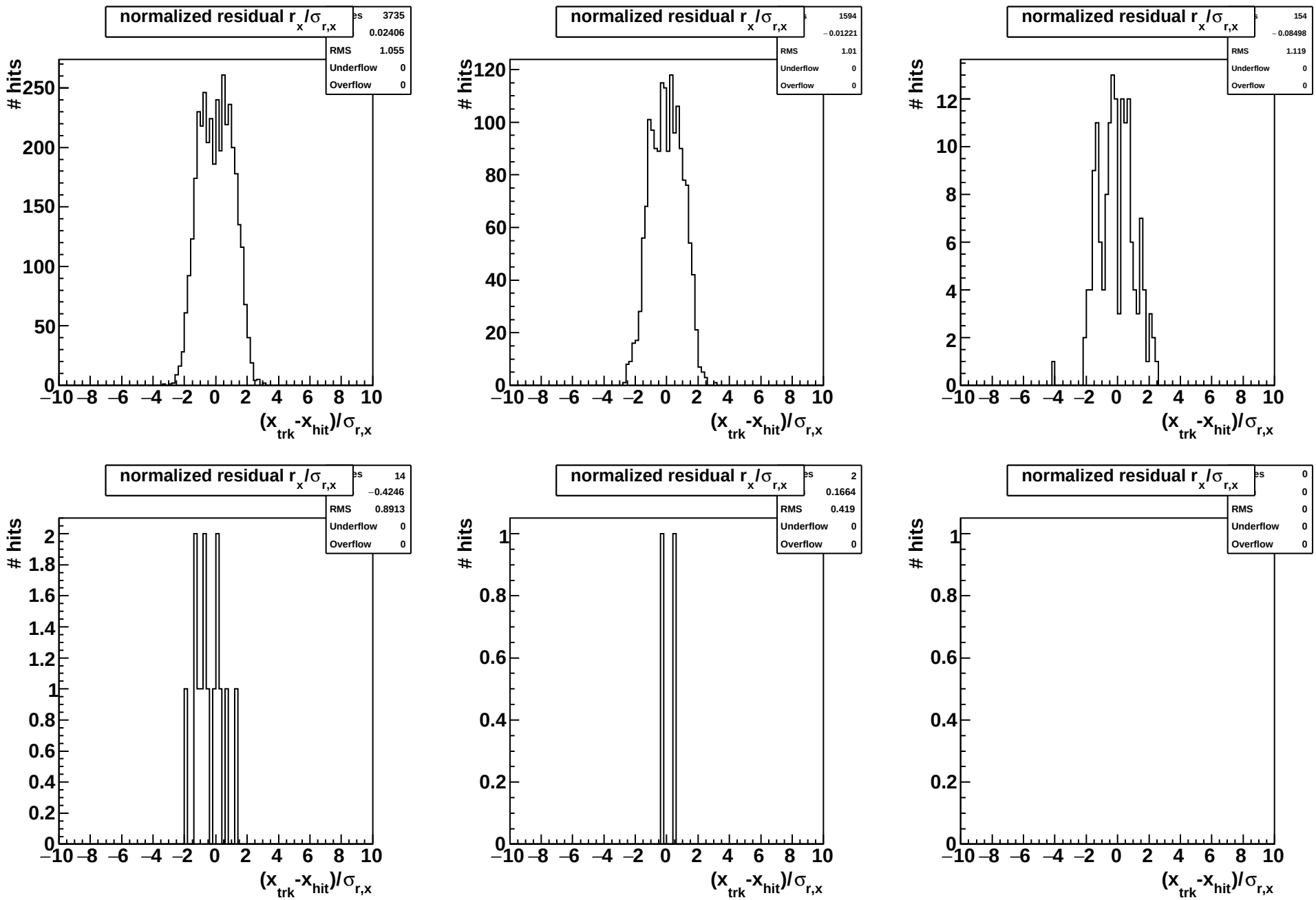
Sector_12/ -- TibLayer1StereoOut

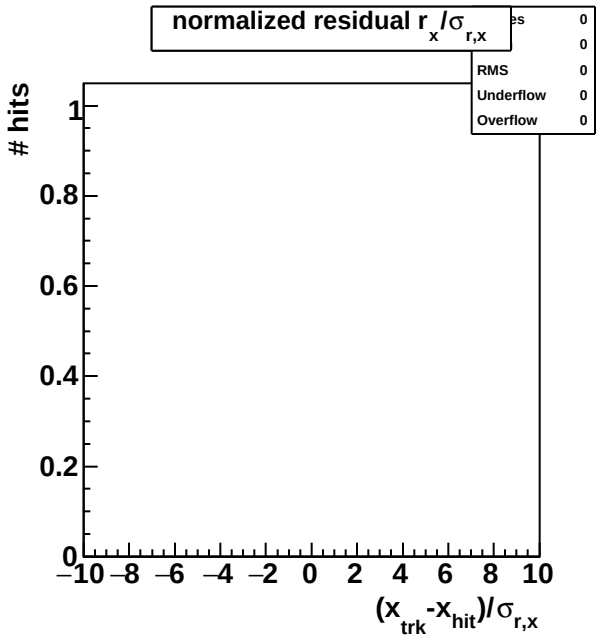

normalized residual $r_x/\sigma_{r,x}$
756
0.04879
RMS 1.065
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
3399
0.002823
RMS 1.066
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
745
0.08998
RMS 1.012
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
103
0.1259
RMS 0.9682
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
15
0.01942
RMS 0.9425
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
4
−0.1357
RMS 1.051
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

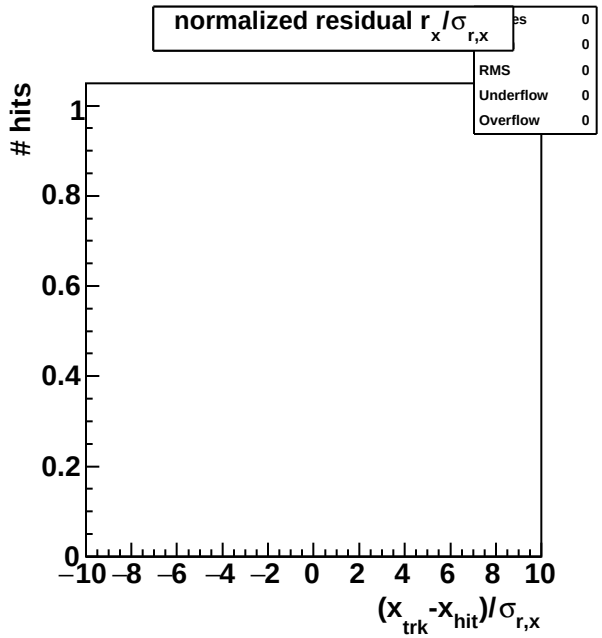

normalized residual $r_x/\sigma_{r,x}$
es 1
−1.384
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

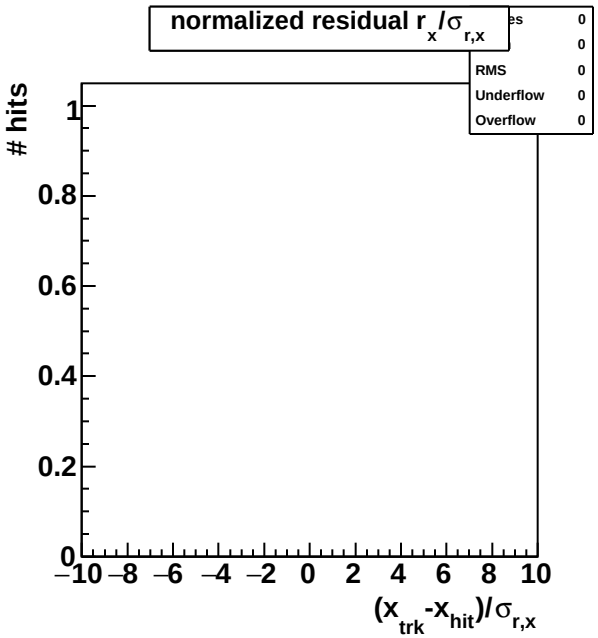

hits used
Entries 10
Mean 12.76
RMS 3.251
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

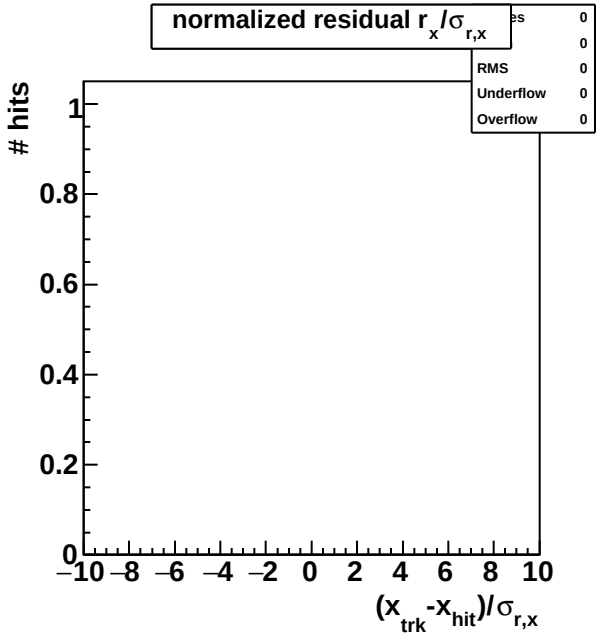
Sector_13/ -- TibLayer1RphiIn

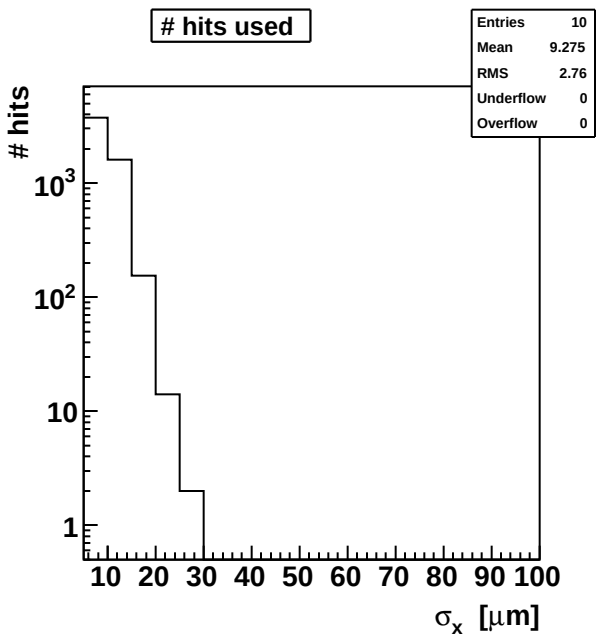

normalized residual r_x/σ_r,x
3735
0.02406
RMS 1.055
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
1594
−0.01221
RMS 1.01
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
154
−0.08498
RMS 1.119
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
14
−0.4246
RMS 0.8913
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
2
0.1664
RMS 0.419
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
0
0
RMS 0
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

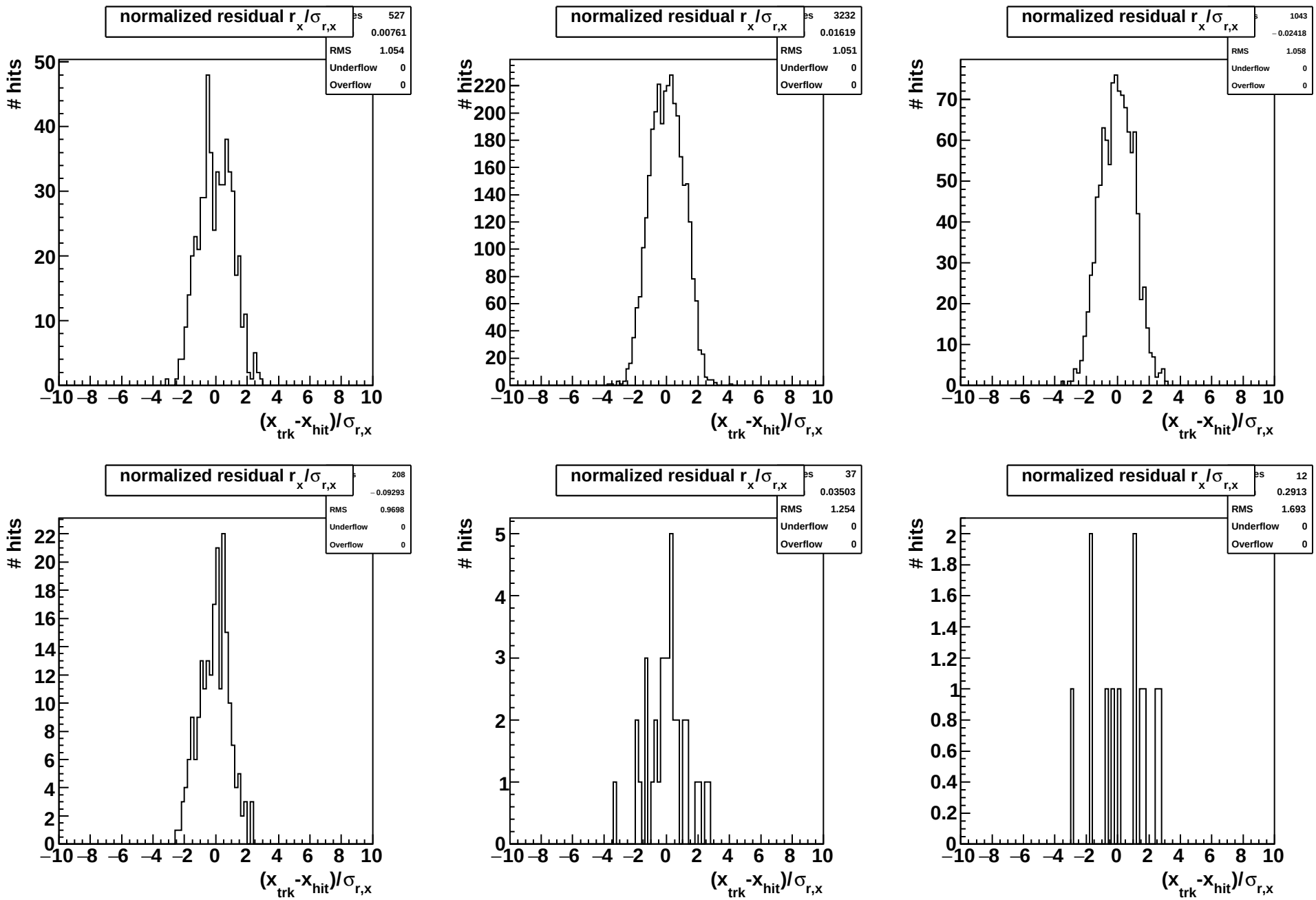

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

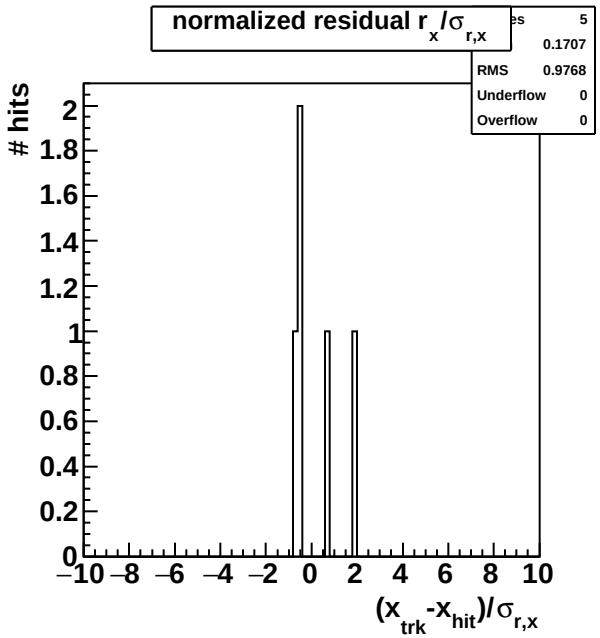

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

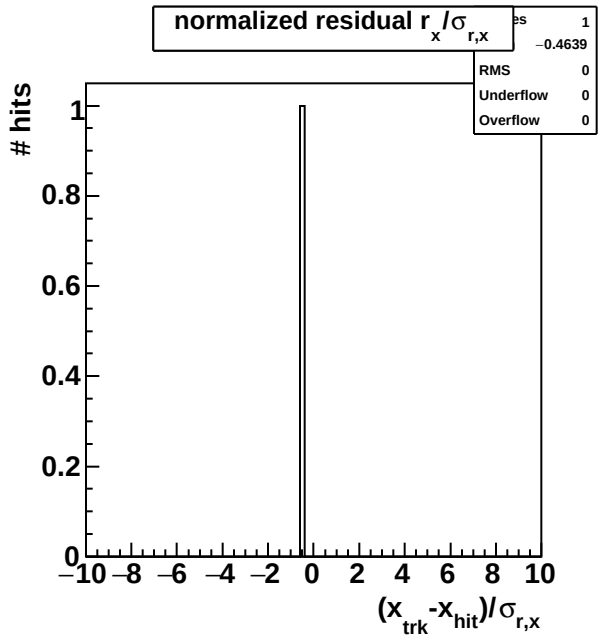

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

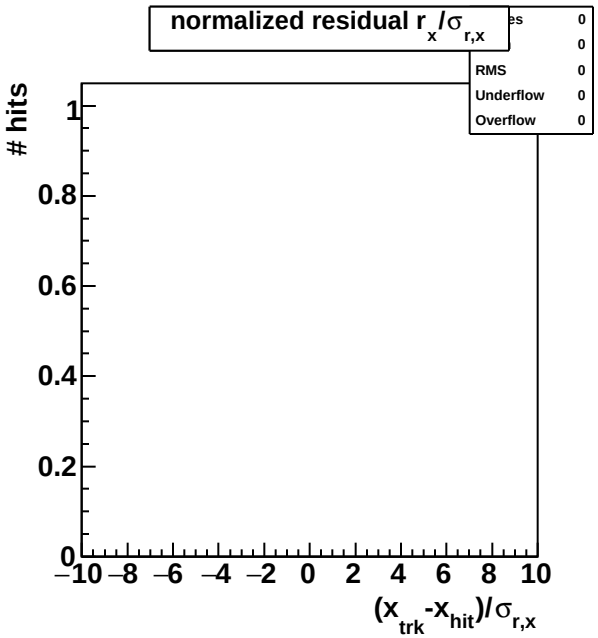

hits used
Entries 10
Mean 9.275
RMS 2.76
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σx [μm]

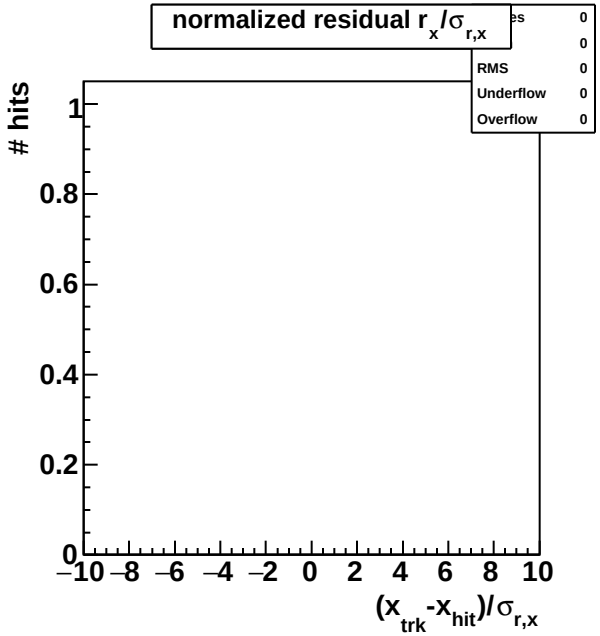
Sector_14/ -- TibLayer1StereoIn

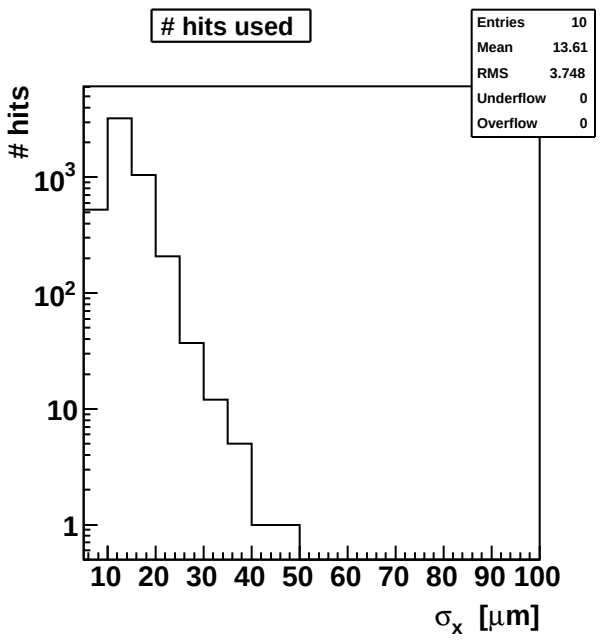

normalized residual $r_x/\sigma_{r,x}$
527
0.00761
RMS 1.054
Underflow 0
Overflow 0
3232
0.01619
RMS 1.051
Underflow 0
Overflow 0
1043
− 0.02418
RMS 1.058
Underflow 0
Overflow 0
208
− 0.09293
RMS 0.9698
Underflow 0
Overflow 0
37
0.03503
RMS 1.254
Underflow 0
Overflow 0
12
0.2913
RMS 1.693
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
es 5
0.1707
RMS 0.9768
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

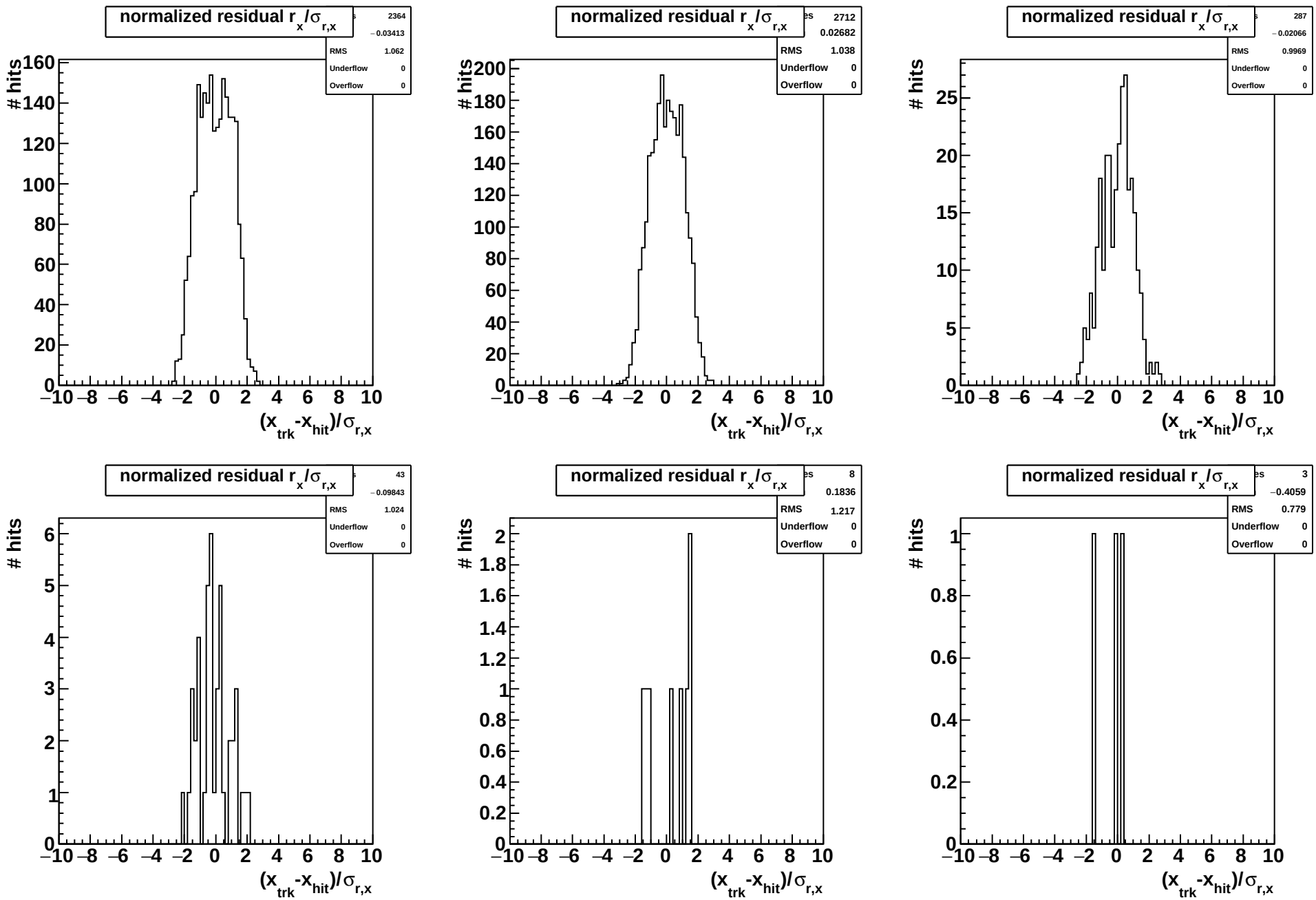

normalized residual $r_x/\sigma_{r,x}$
es 1
−0.4639
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

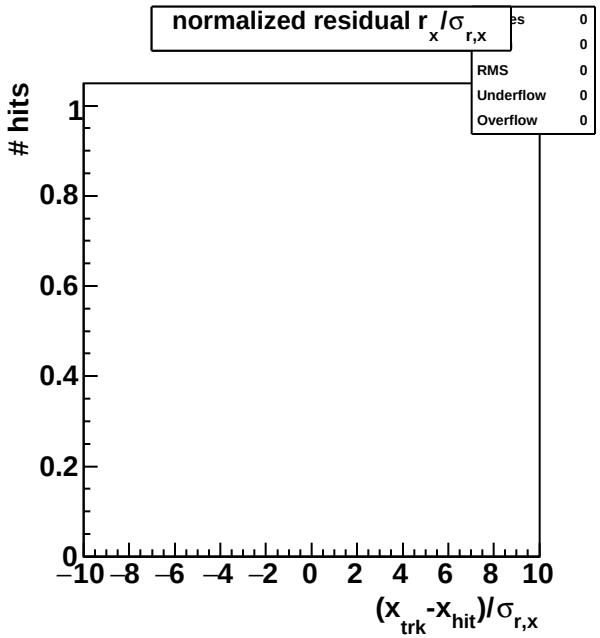

normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

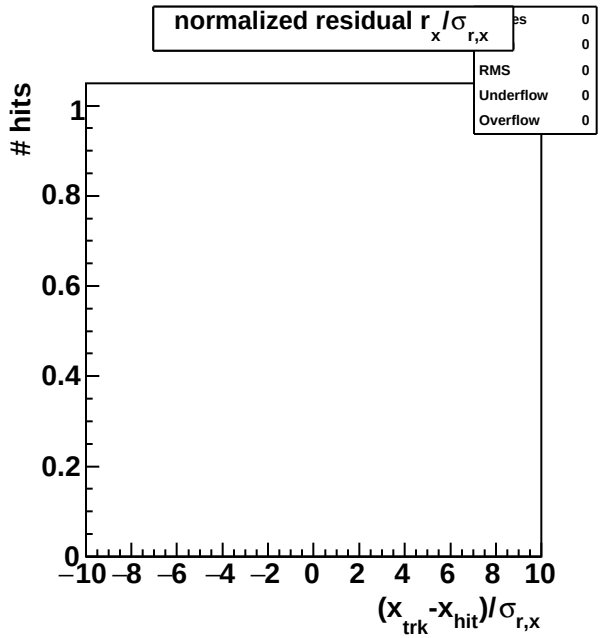

normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

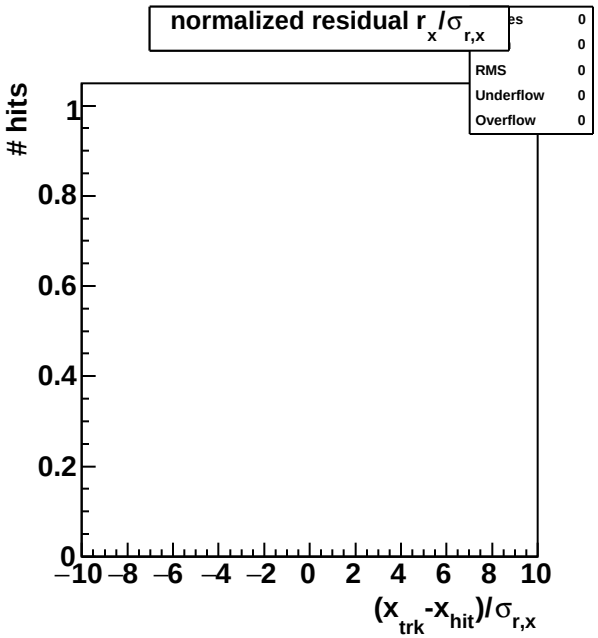

hits used
Entries 10
Mean 13.61
RMS 3.748
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

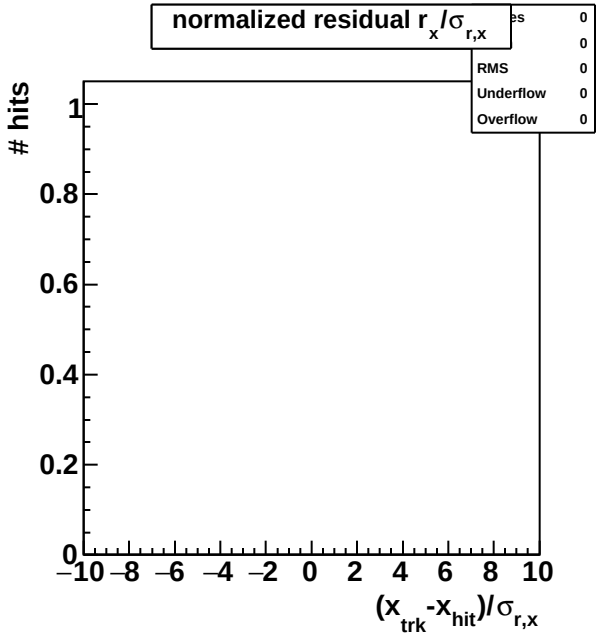
Sector_15/ -- TibLayer2RphiOut

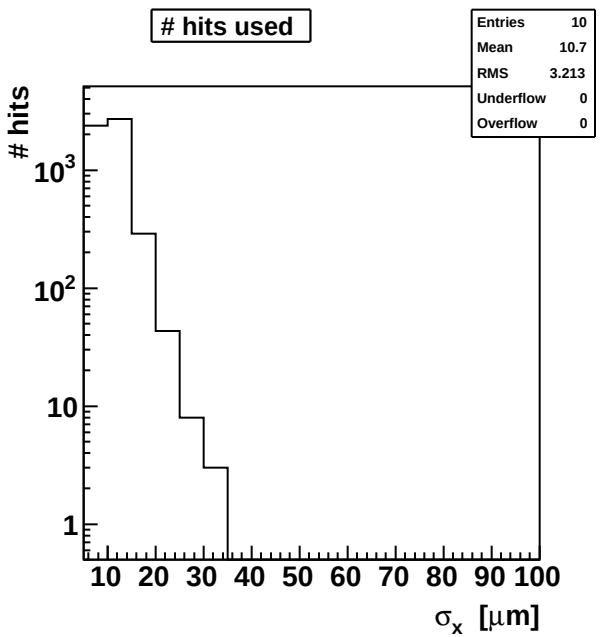

normalized residual r_x/σ_r,x
2364
−0.03413
RMS 1.062
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
2712
0.02682
RMS 1.038
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
287
−0.02066
RMS 0.9969
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
43
−0.09843
RMS 1.024
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
8
0.1836
RMS 1.217
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
3
−0.4059
RMS 0.779
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

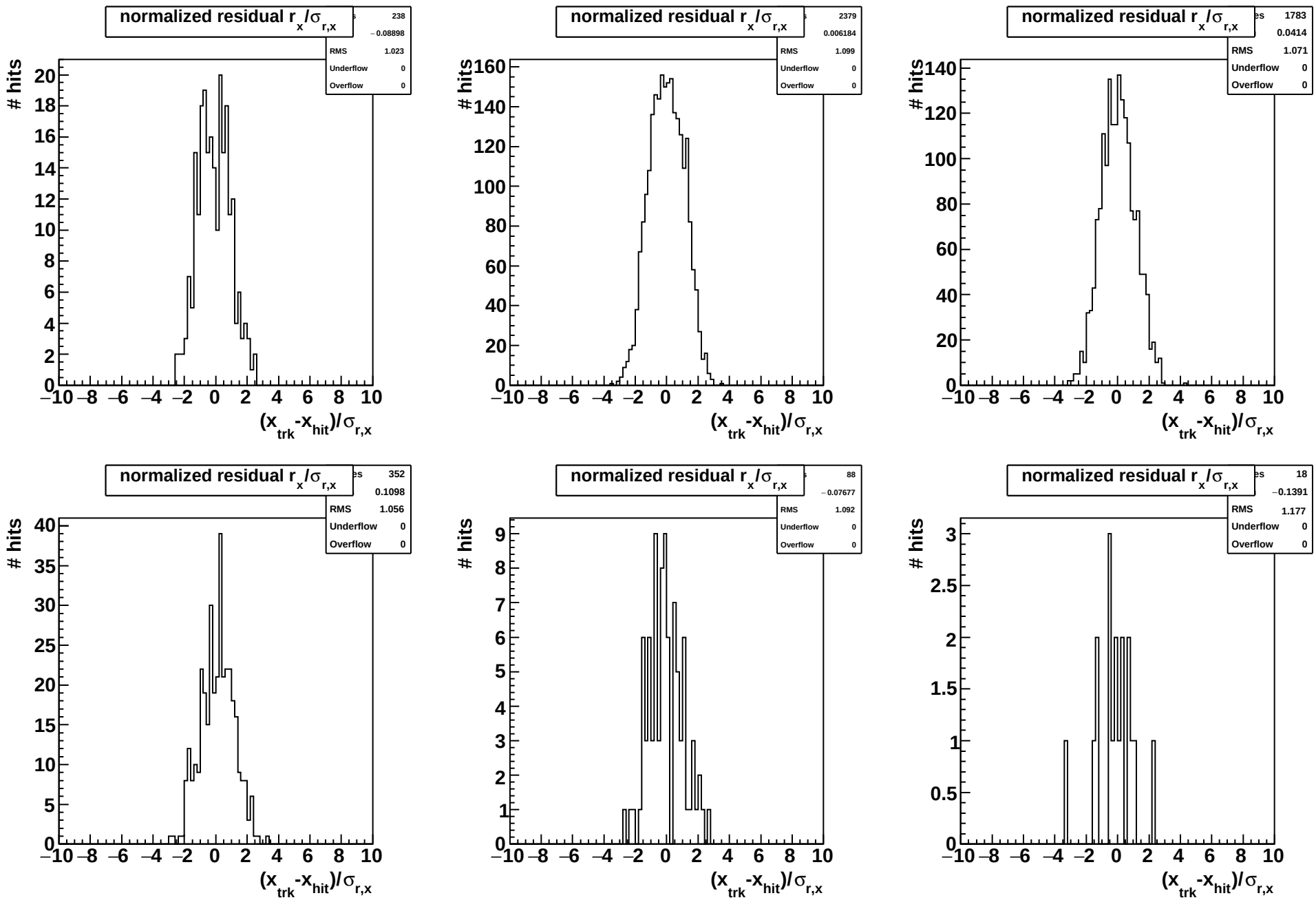

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

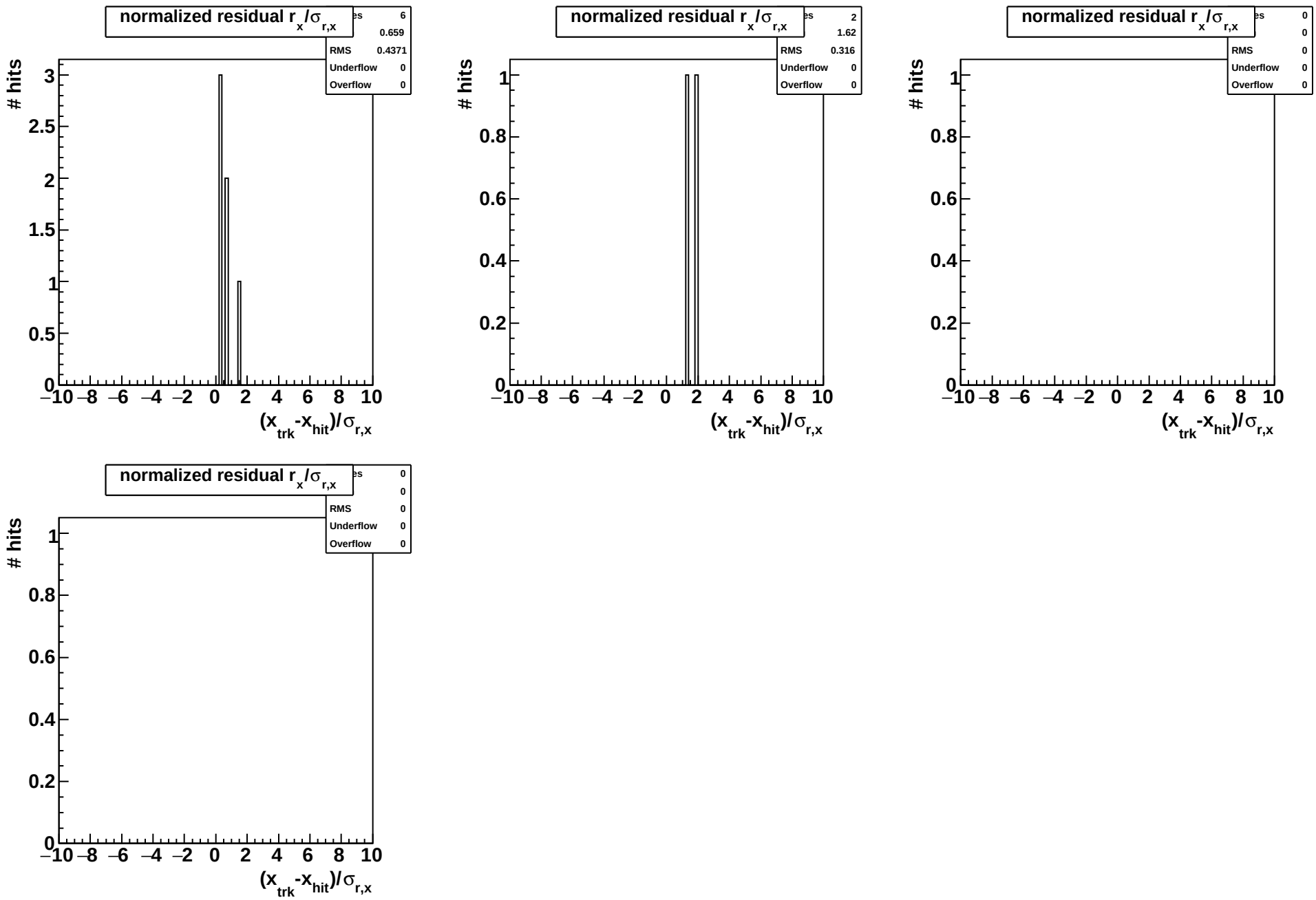

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

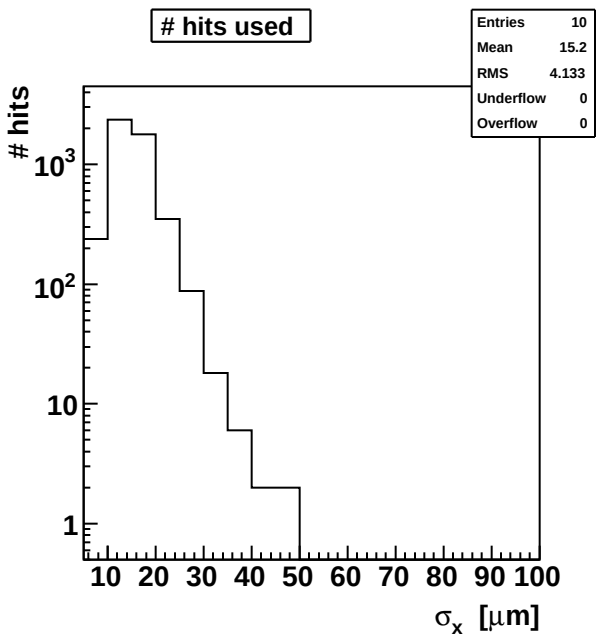

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 10.7
RMS 3.213
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

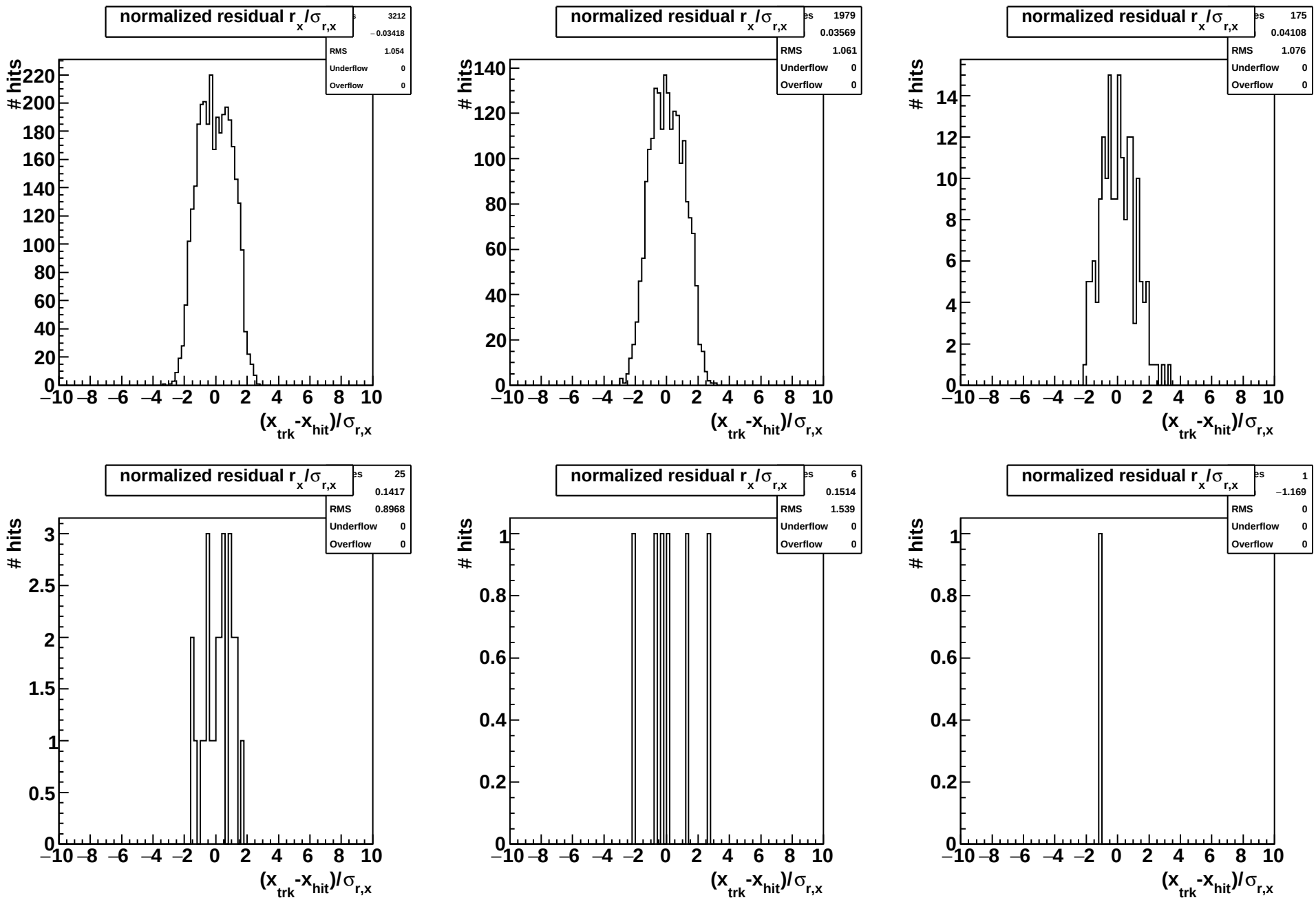
Sector_16/ -- TibLayer2StereoOut

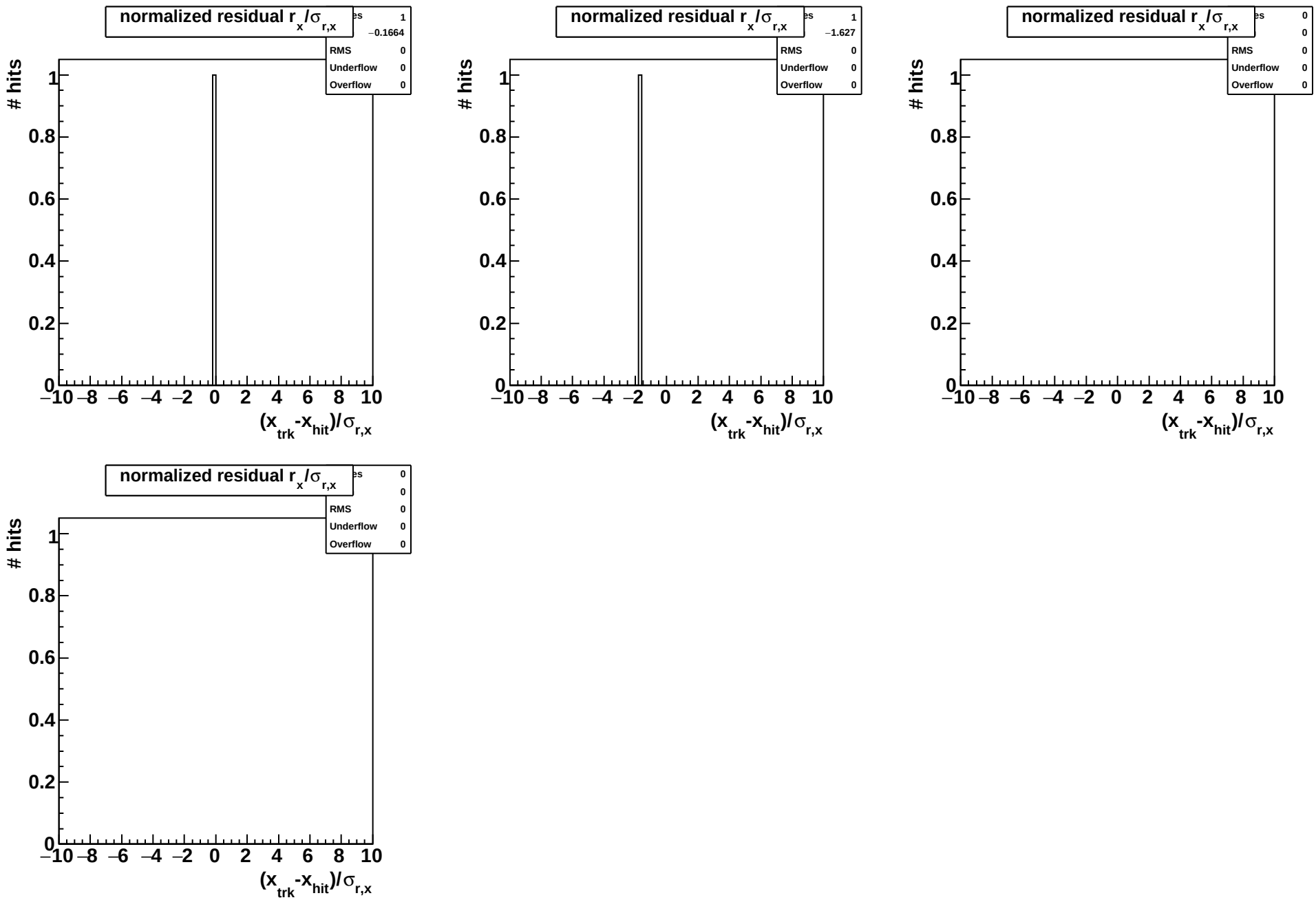

normalized residual $r_x/\sigma_{r,x}$
238
−0.08898
RMS 1.023
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2379
0.006184
RMS 1.099
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1783
0.0414
RMS 1.071
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
352
0.1098
RMS 1.056
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
88
−0.07677
RMS 1.092
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
18
−0.1391
RMS 1.177
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

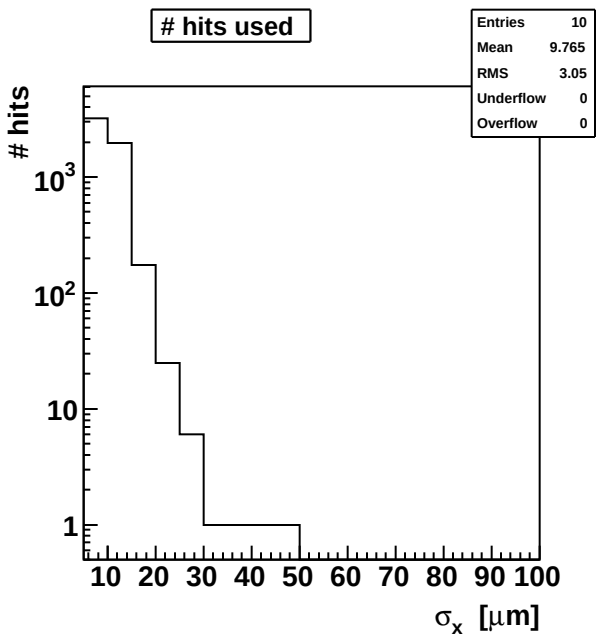

normalized residual $r_x/\sigma_{r,x}$
6
0.659
RMS 0.4371
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2
1.62
RMS 0.316
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 15.2
RMS 4.133
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

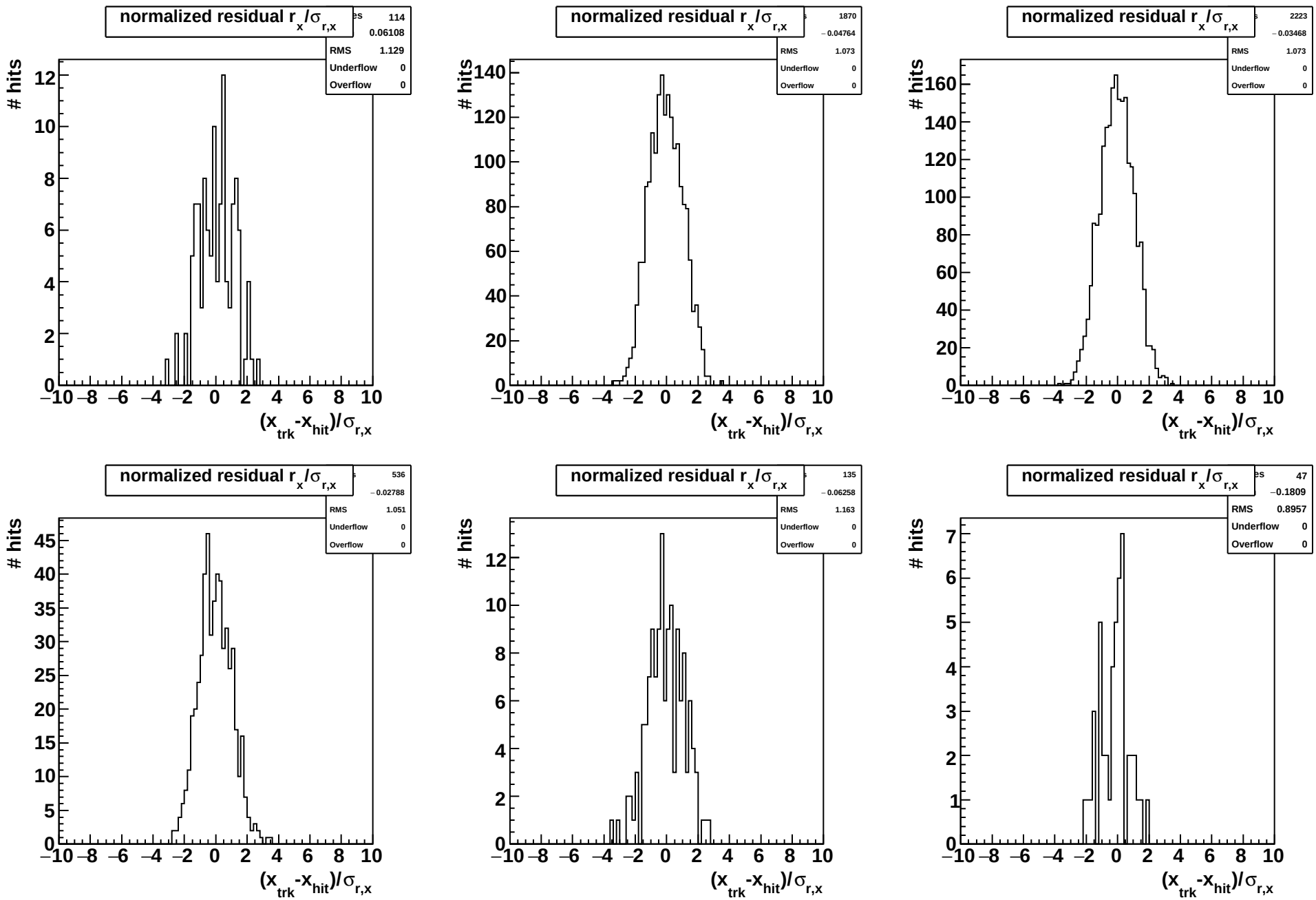
Sector_17/ -- TibLayer2RphiIn

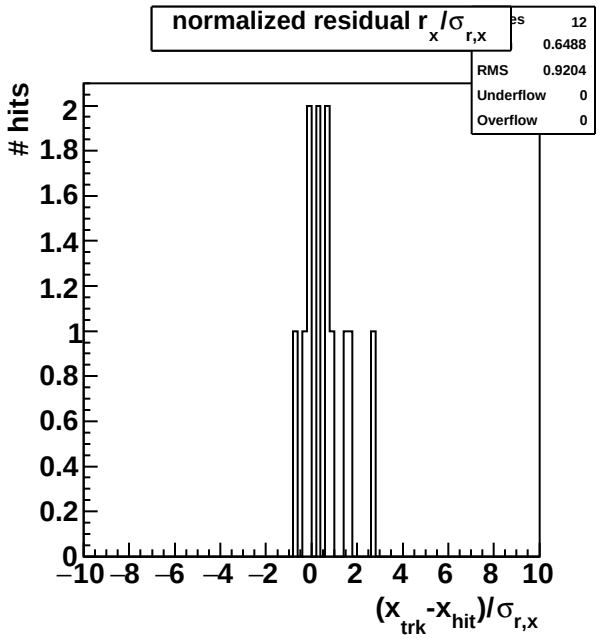

normalized residual $r_x/\sigma_{r,x}$
3212
−0.03418
RMS 1.054
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1979
0.03569
RMS 1.061
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
175
0.04108
RMS 1.076
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
25
0.1417
RMS 0.8968
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
6
0.1514
RMS 1.539
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1
−1.169
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

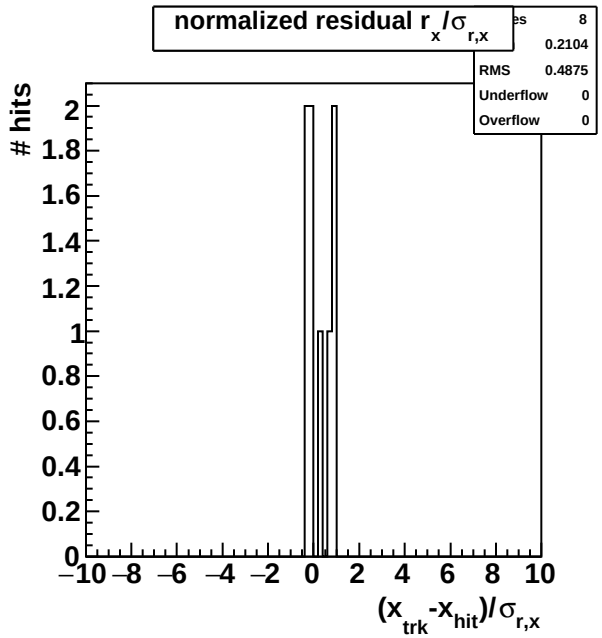

normalized residual $r_x/\sigma_{r,x}$
es 1
−0.1664
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 1
−1.627
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

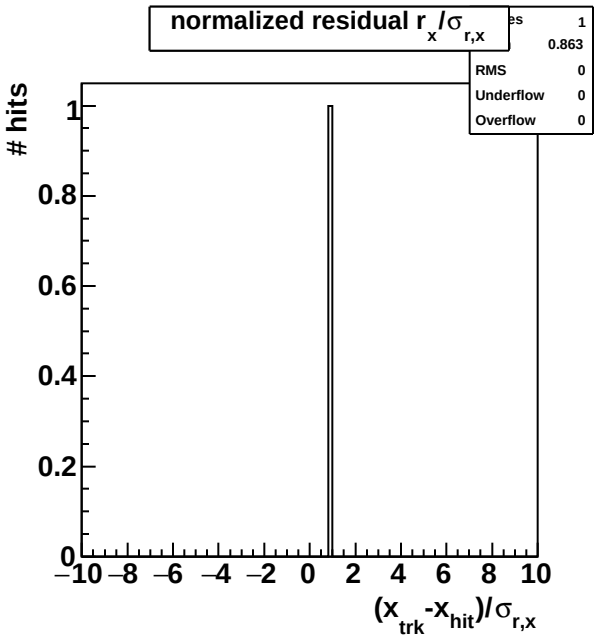

hits used
Entries 10
Mean 9.765
RMS 3.05
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

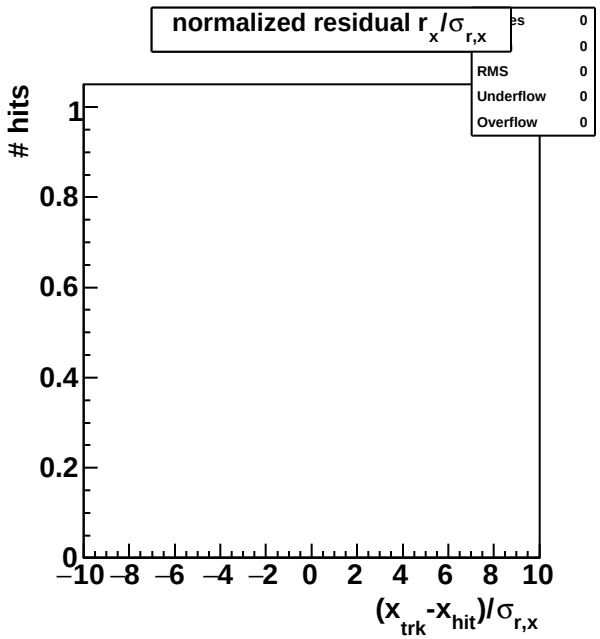
Sector_18/ -- TibLayer2StereoIn

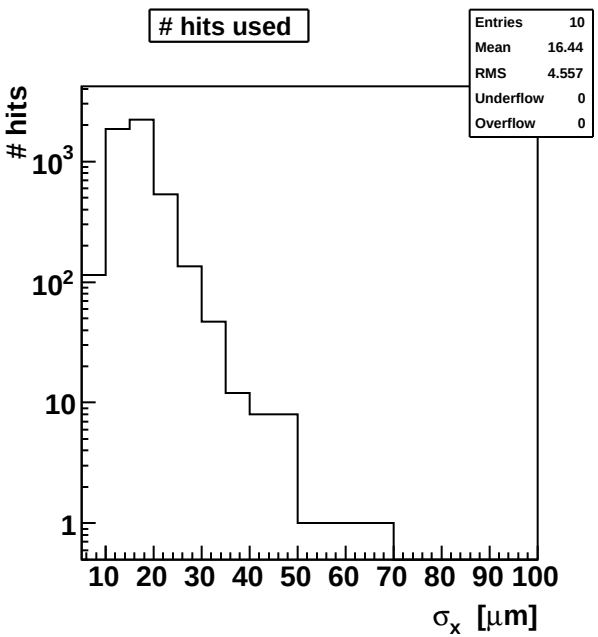

normalized residual $r_x/\sigma_{r,x}$
114
0.06108
RMS 1.129
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1870
−0.04764
RMS 1.073
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2223
−0.03468
RMS 1.073
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
536
−0.02788
RMS 1.051
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
135
−0.06258
RMS 1.163
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
47
−0.1809
RMS 0.8957
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
es 12
0.6488
RMS 0.9204
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

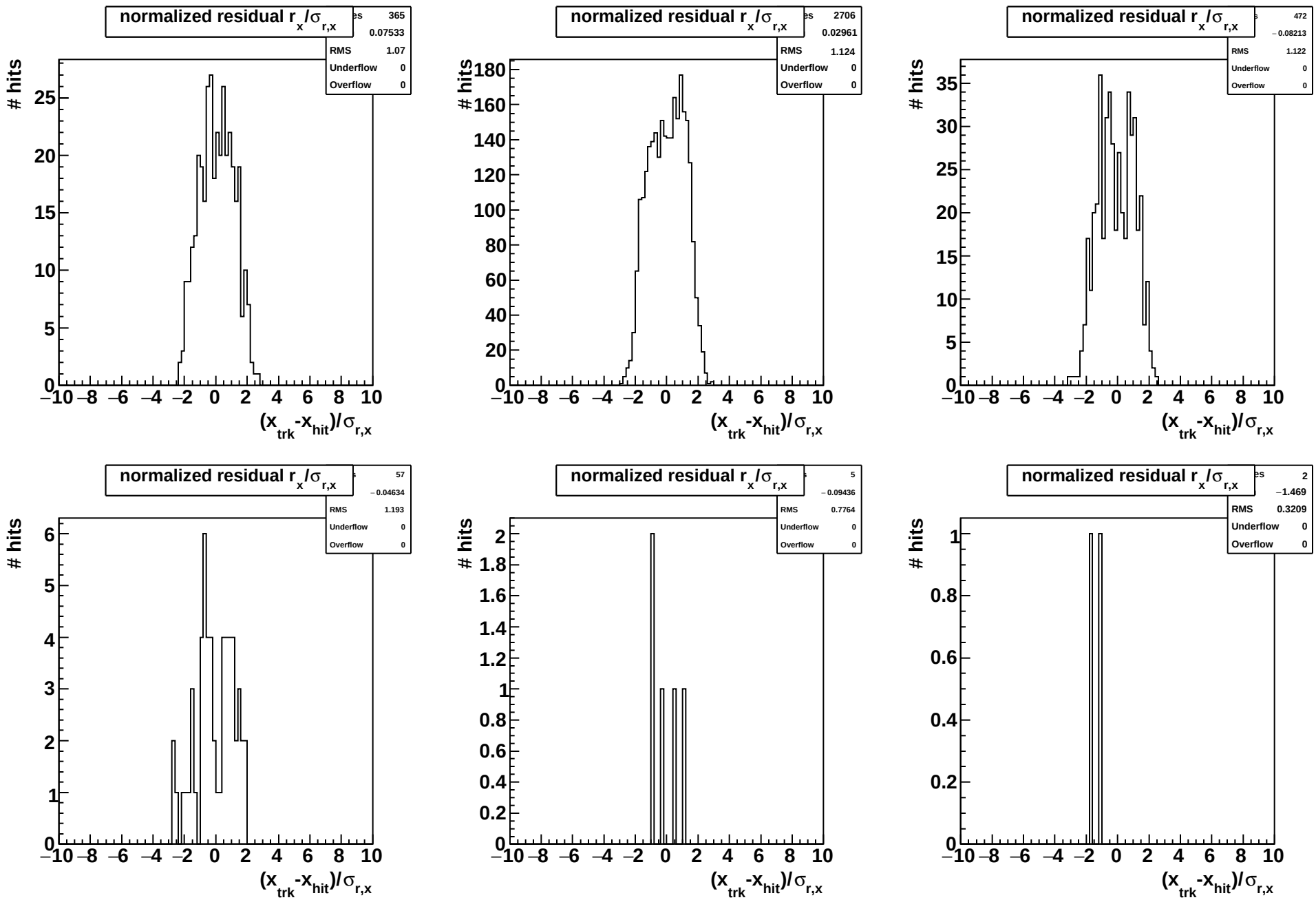

normalized residual $r_x/\sigma_{r,x}$
es 8
0.2104
RMS 0.4875
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

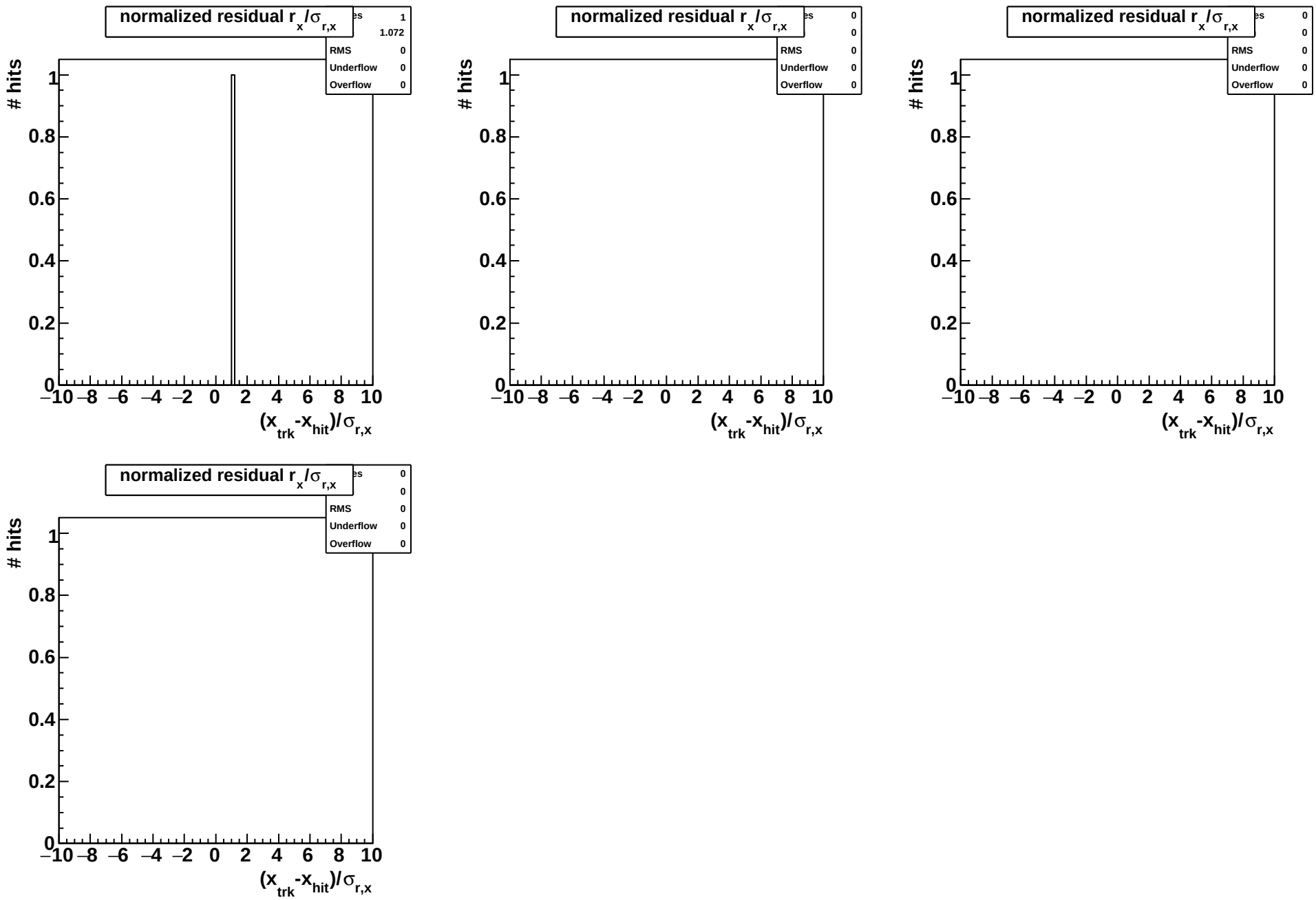

normalized residual $r_x/\sigma_{r,x}$
es 1
0.863
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

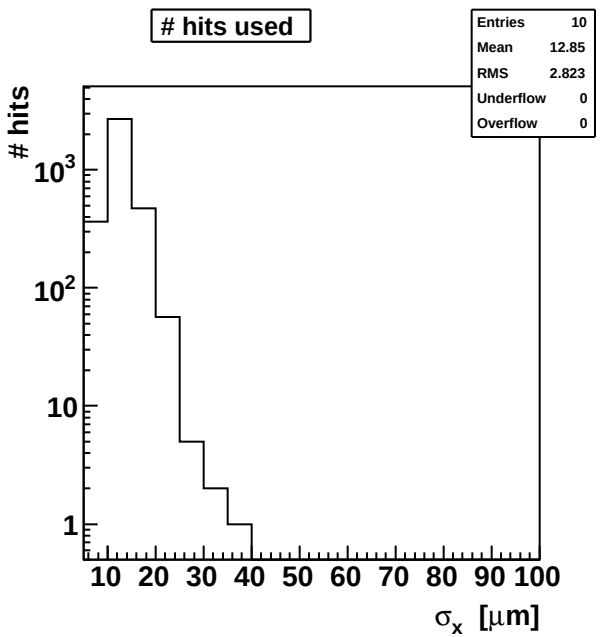

normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 16.44
RMS 4.557
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

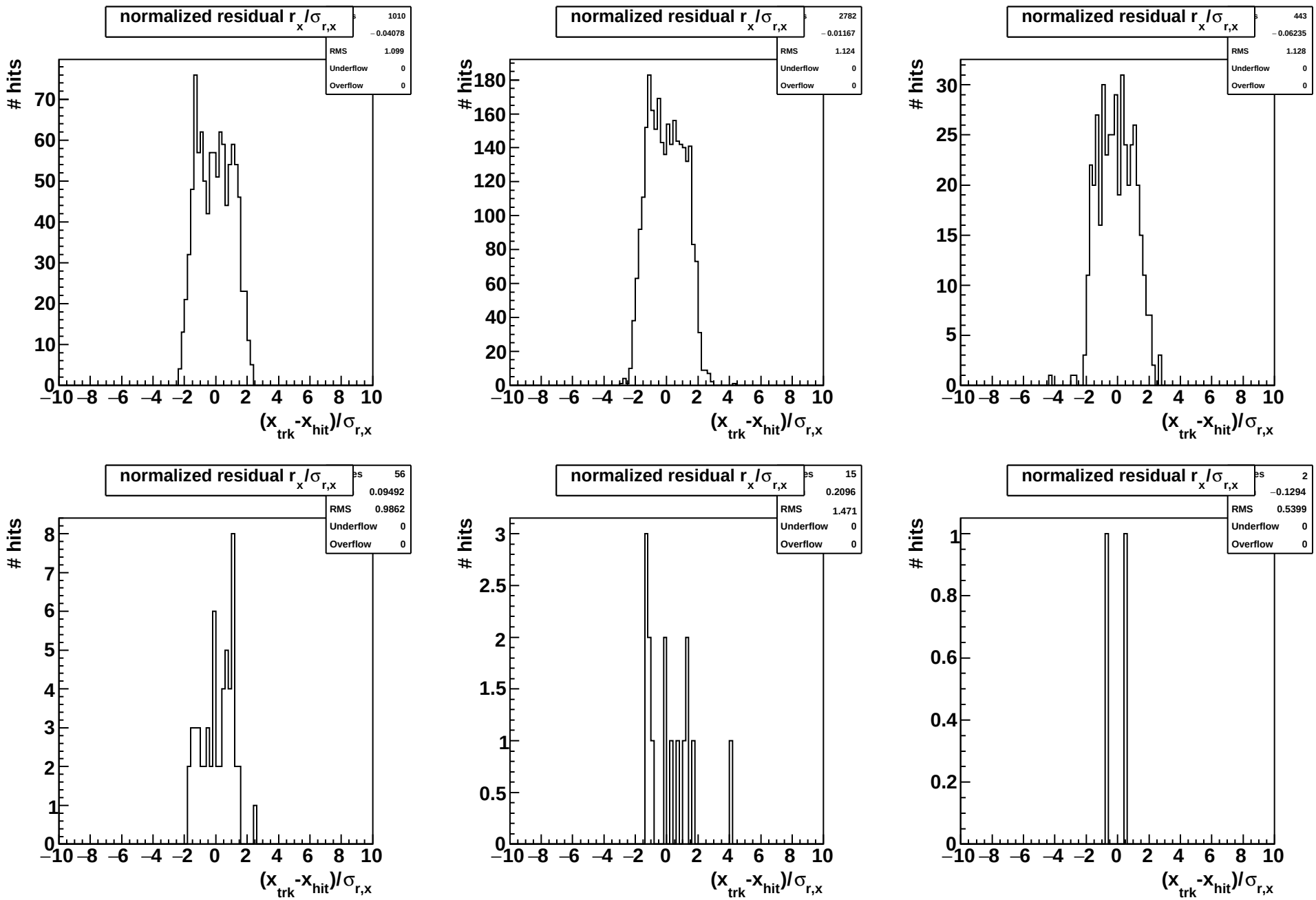
Sector_19/ -- TibLayer3Out

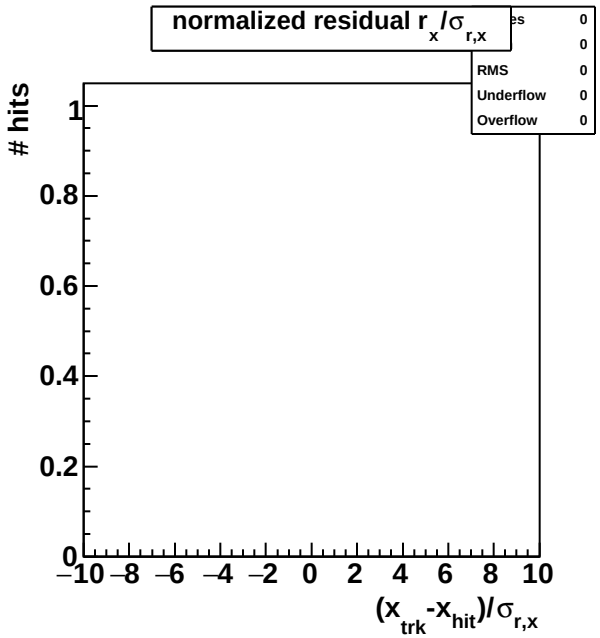

normalized residual $r_x/\sigma_{r,x}$
365
0.07533
RMS 1.07
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2706
0.02961
RMS 1.124
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
472
−0.08213
RMS 1.122
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
57
−0.04634
RMS 1.193
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
5
−0.09436
RMS 0.7764
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2
−1.469
RMS 0.3209
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

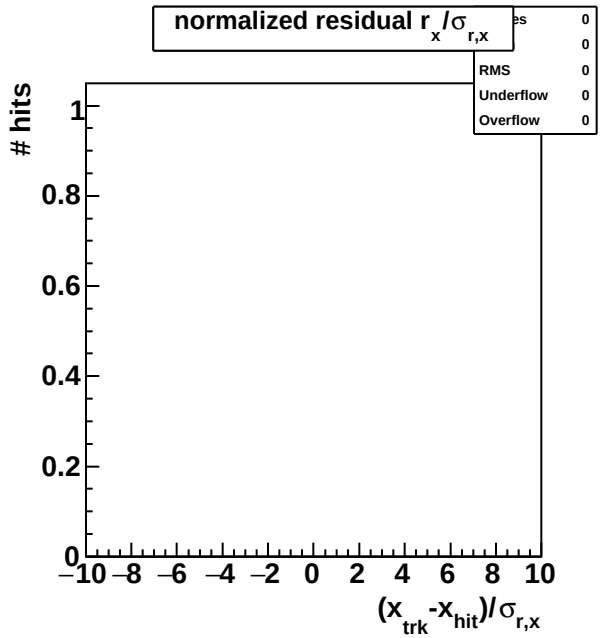

normalized residual $r_x/\sigma_{r,x}$
es 1
1.072
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

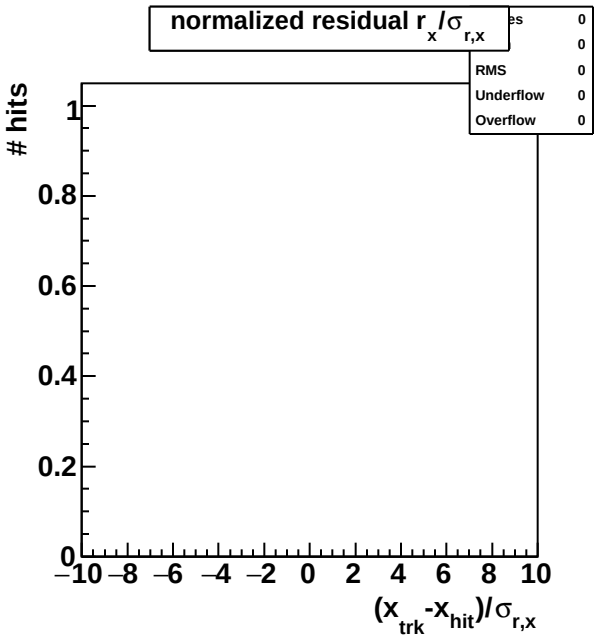

hits used
Entries 10
Mean 12.85
RMS 2.823
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

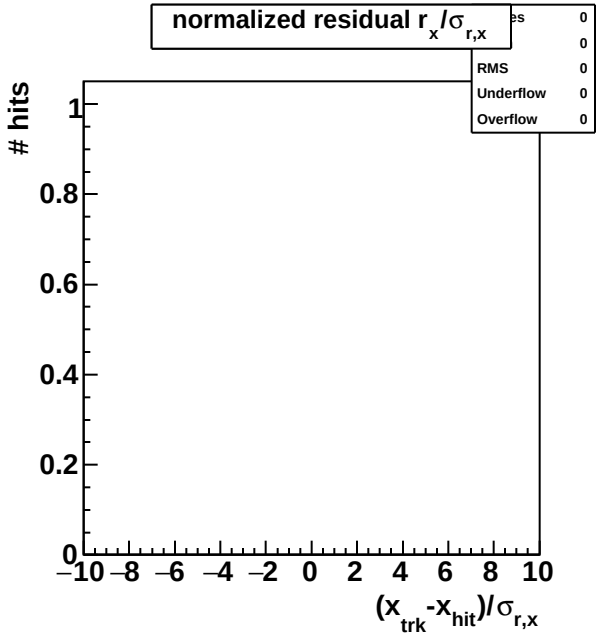
Sector_20/ -- TibLayer3In

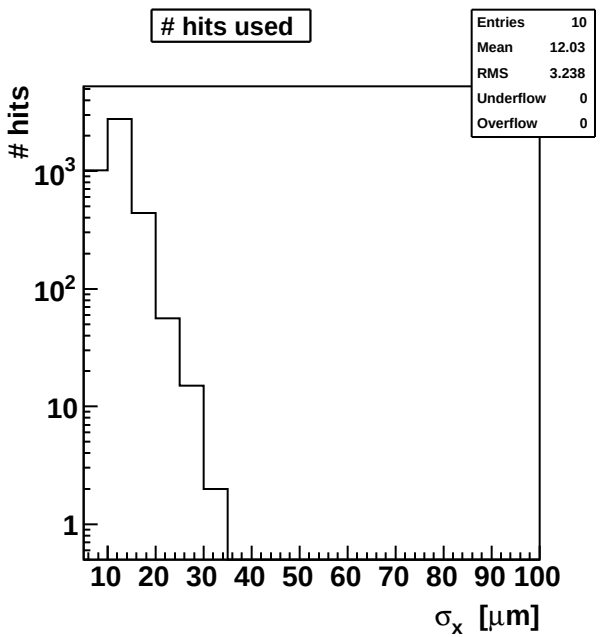

normalized residual $r_x/\sigma_{r,x}$
1010
−0.04078
RMS 1.099
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2782
−0.01167
RMS 1.124
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
443
−0.06235
RMS 1.128
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
56
0.09492
RMS 0.9862
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
15
0.2096
RMS 1.471
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2
−0.1294
RMS 0.5399
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

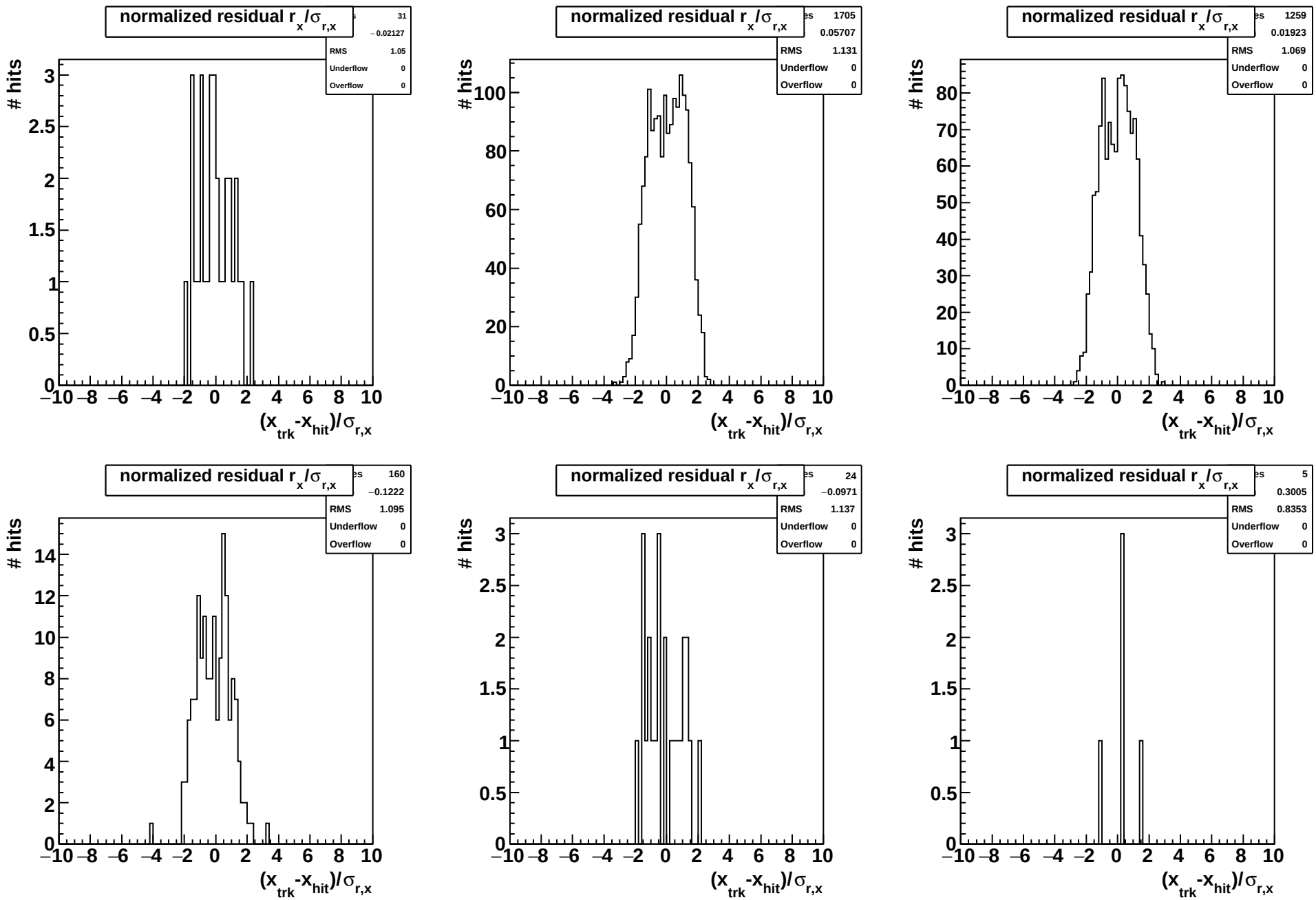

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

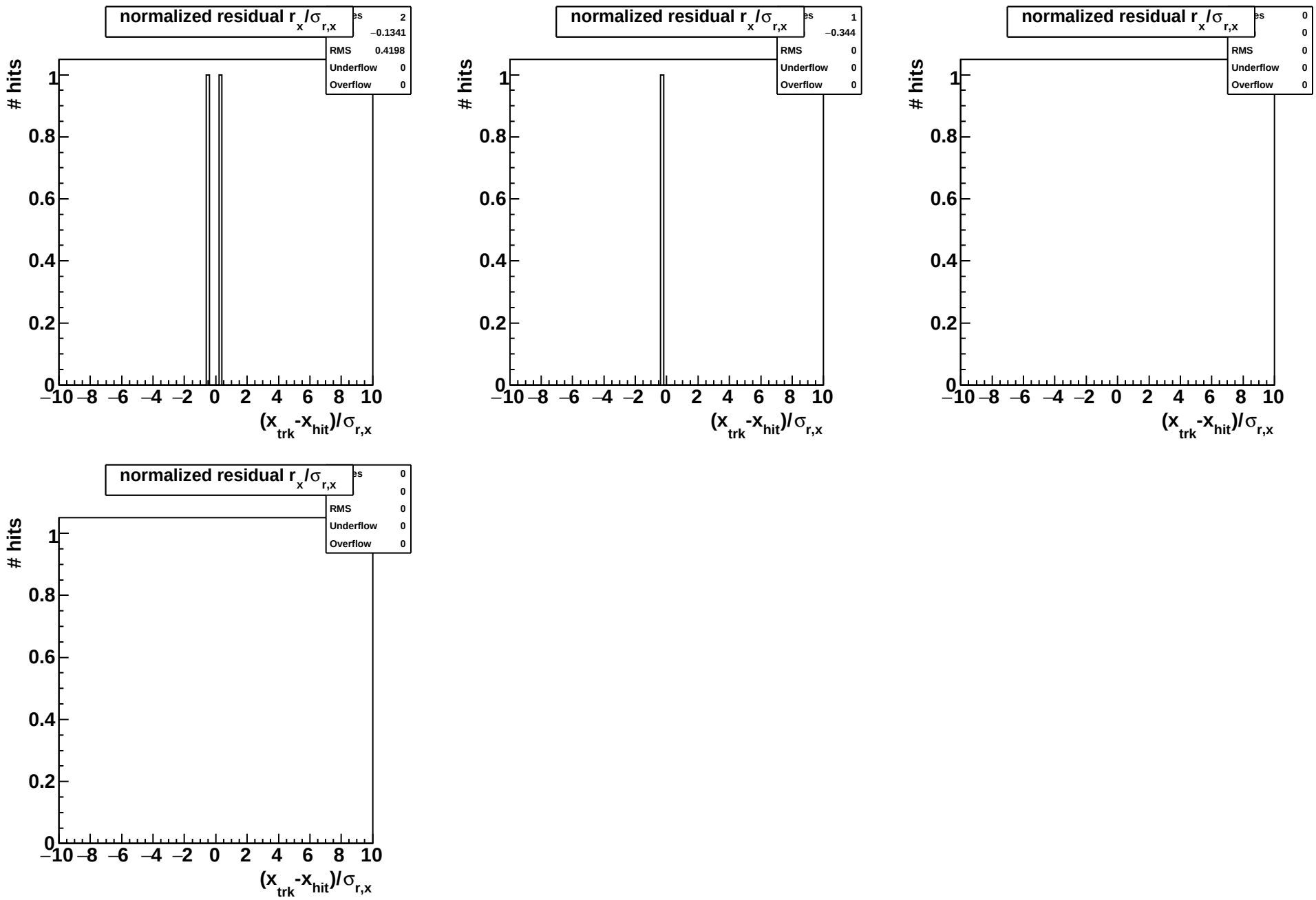

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

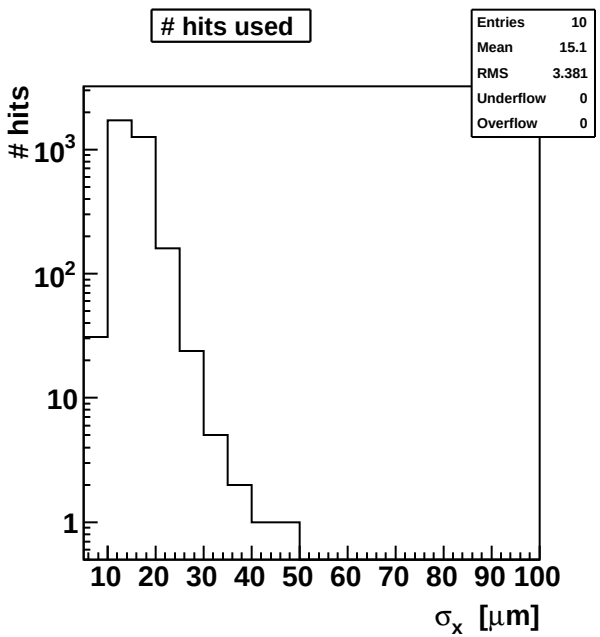

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 12.03
RMS 3.238
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

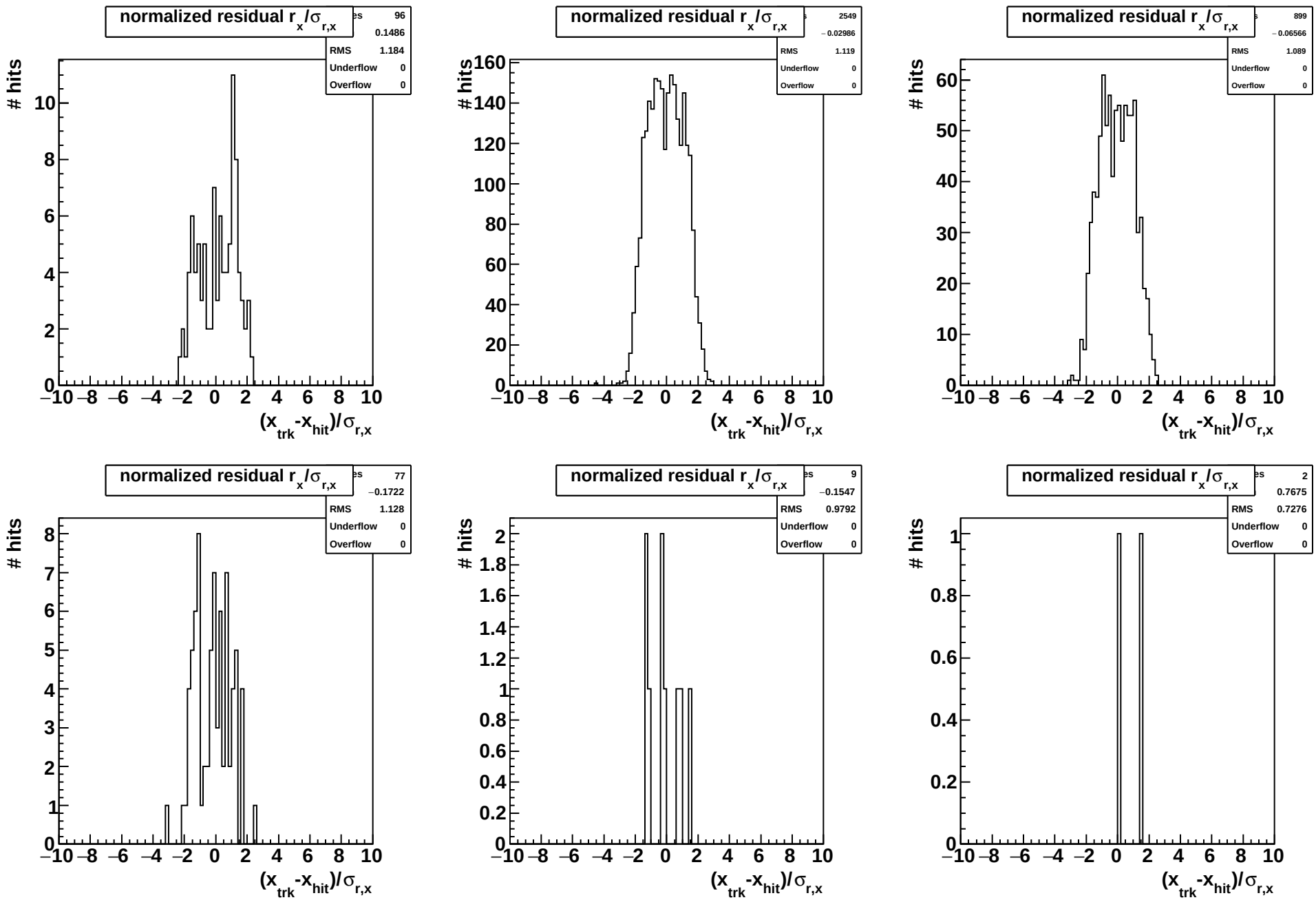
Sector_21/ -- TibLayer4Out

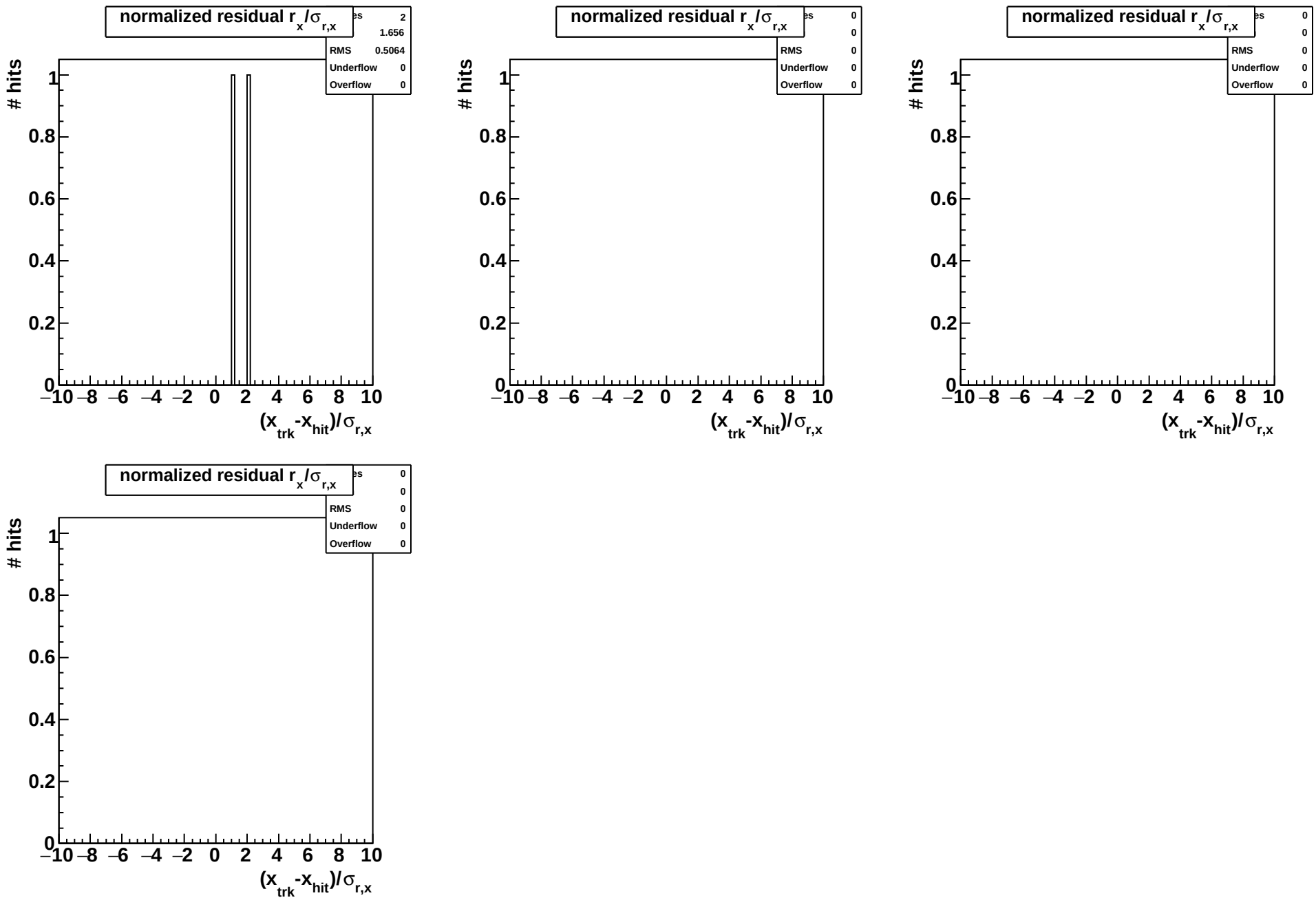

normalized residual $r_x/\sigma_{r,x}$
31
−0.02127
RMS 1.05
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1705
0.05707
RMS 1.131
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1259
0.01923
RMS 1.069
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
160
−0.1222
RMS 1.095
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
24
−0.0971
RMS 1.137
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
5
0.3005
RMS 0.8353
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

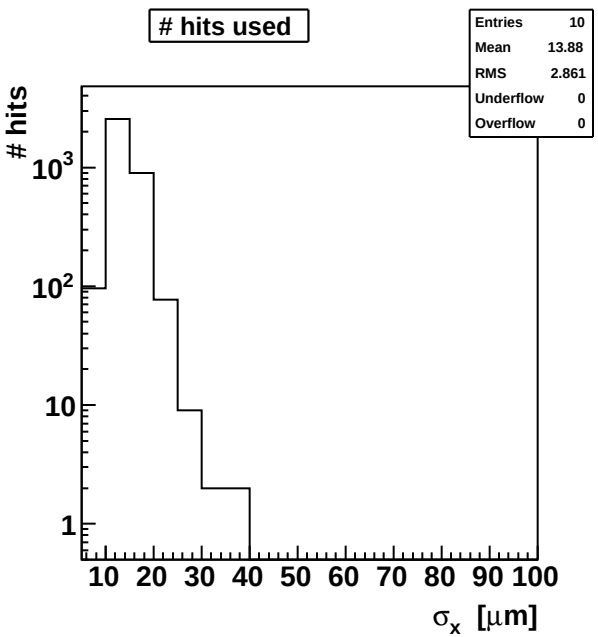

normalized residual $r_x/\sigma_{r,x}$
es 2
−0.1341
RMS 0.4198
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 1
−0.344
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 15.1
RMS 3.381
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

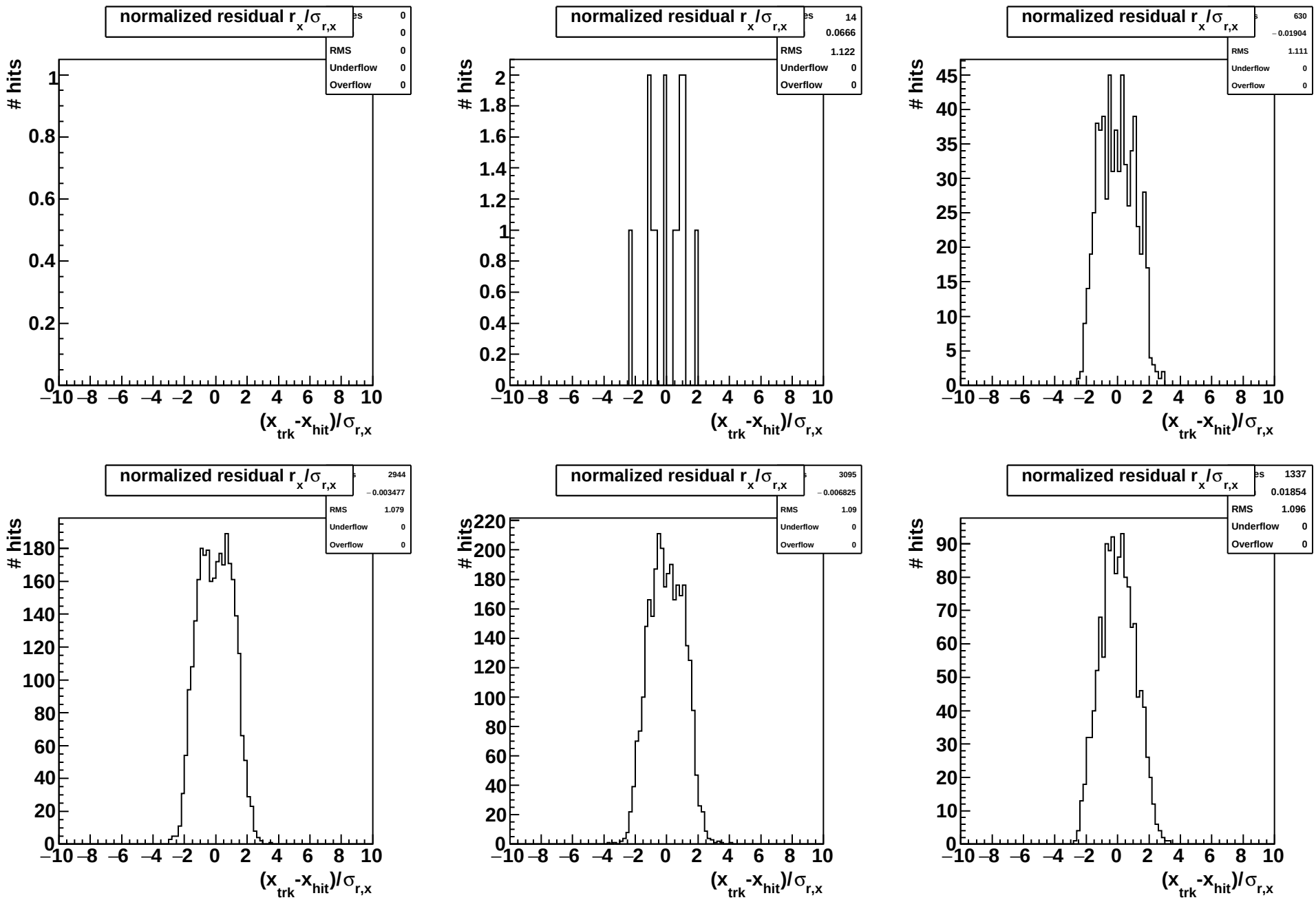
Sector_22/ -- TibLayer4In

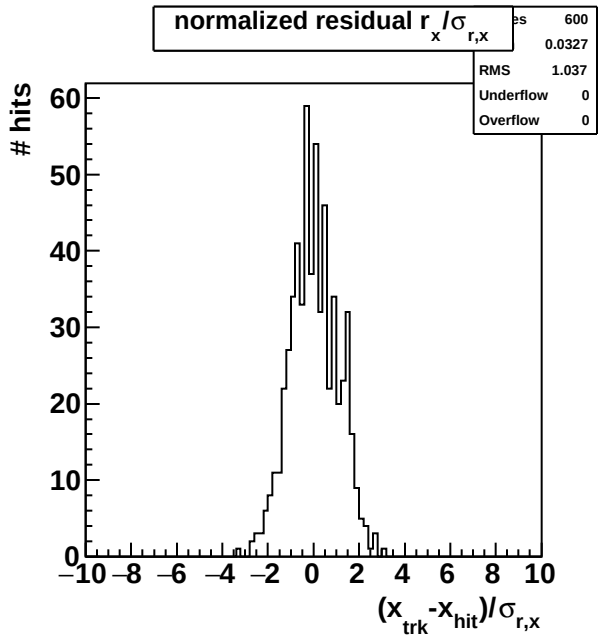

normalized residual $r_x/\sigma_{r,x}$
96
0.1486
RMS 1.184
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2549
−0.02986
RMS 1.119
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
899
−0.06566
RMS 1.089
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
77
−0.1722
RMS 1.128
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
9
−0.1547
RMS 0.9792
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2
0.7675
RMS 0.7276
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

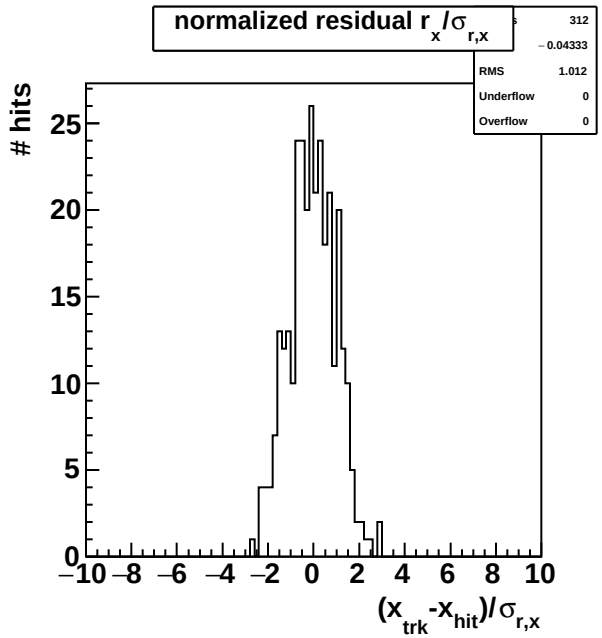

normalized residual $r_x/\sigma_{r,x}$
es 2
1.656
RMS 0.5064
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

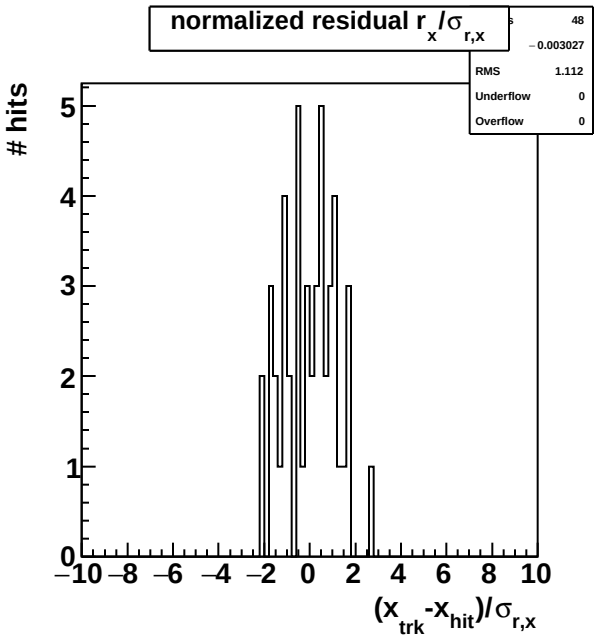

hits used
Entries 10
Mean 13.88
RMS 2.861
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

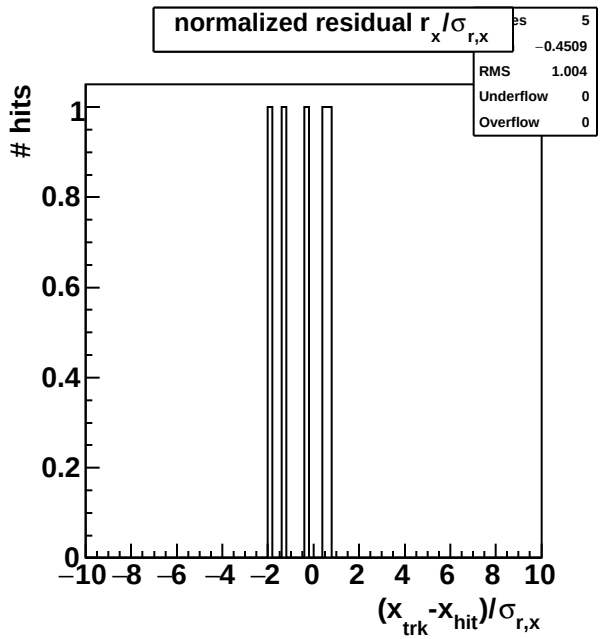
Sector_23/ -- TobLayer1StereoOut

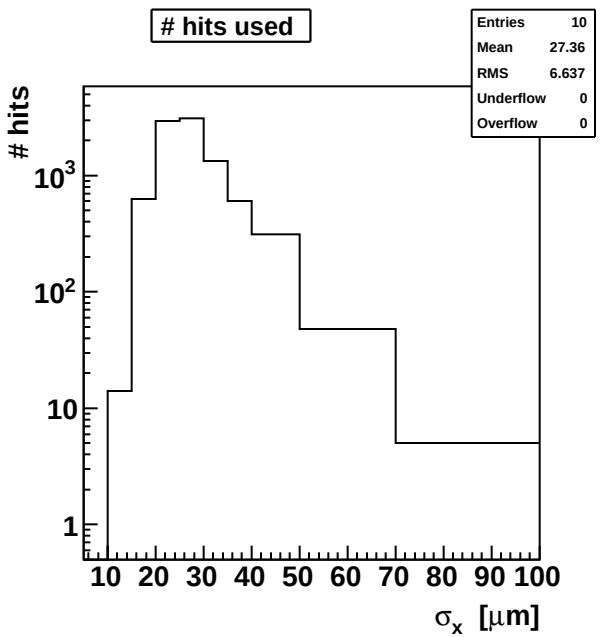

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
14
0.0666
RMS 1.122
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
630
− 0.01904
RMS 1.111
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
2944
− 0.003477
RMS 1.079
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
3095
− 0.006825
RMS 1.09
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1337
0.01854
RMS 1.096
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
600
0.0327
RMS 1.037
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

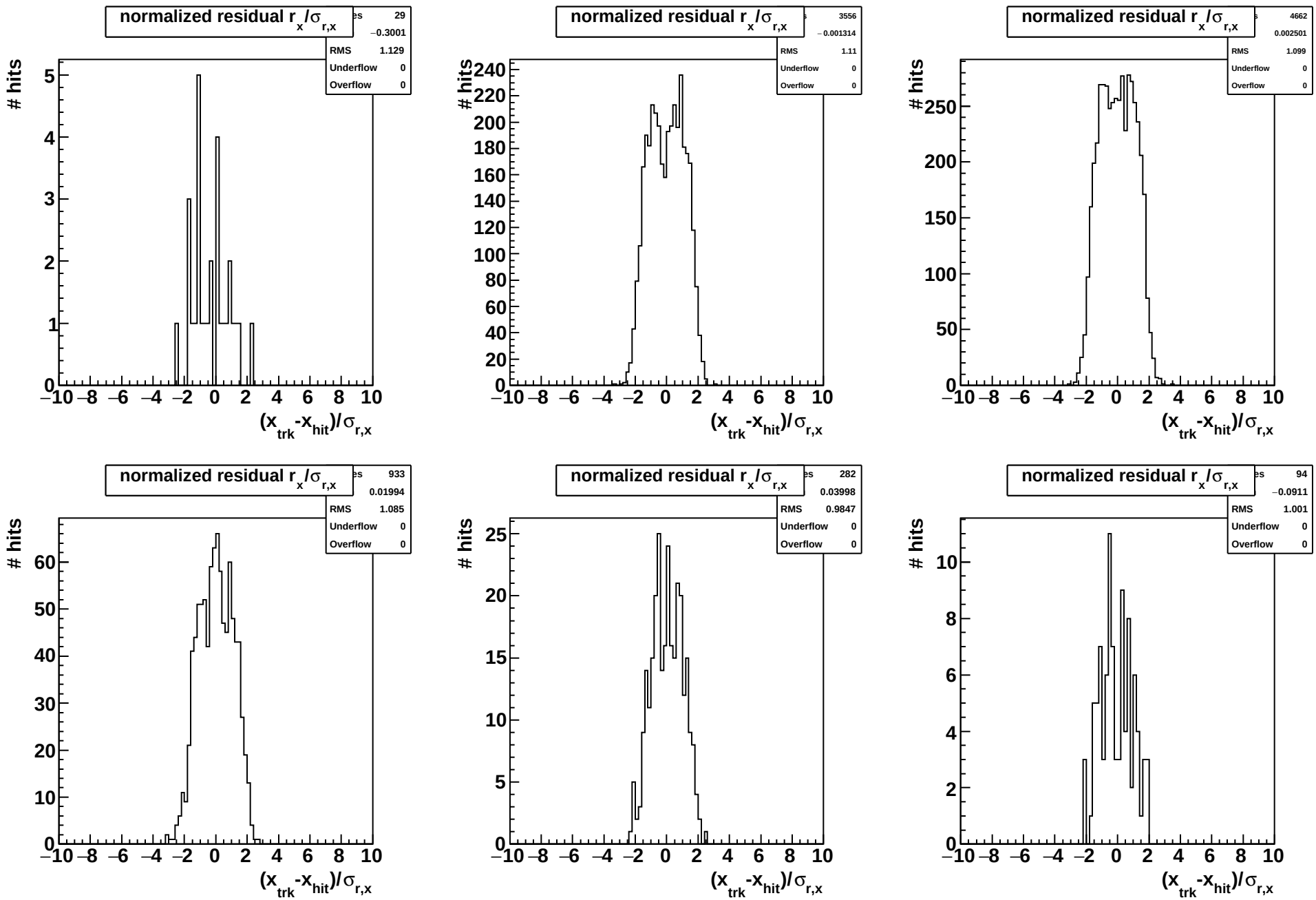

normalized residual $r_x/\sigma_{r,x}$
312
−0.04333
RMS 1.012
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

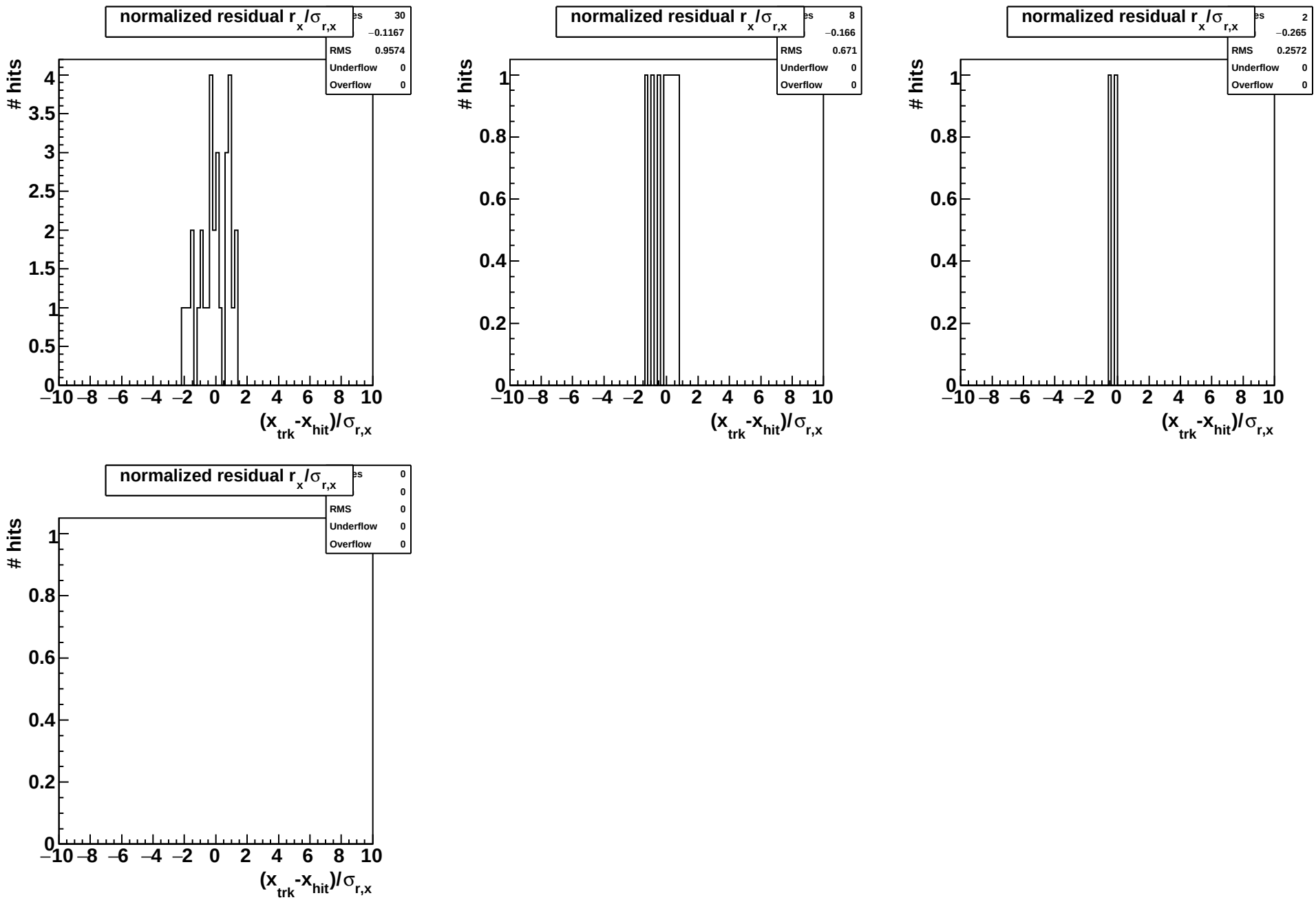

normalized residual $r_x/\sigma_{r,x}$
48
−0.003027
RMS 1.112
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

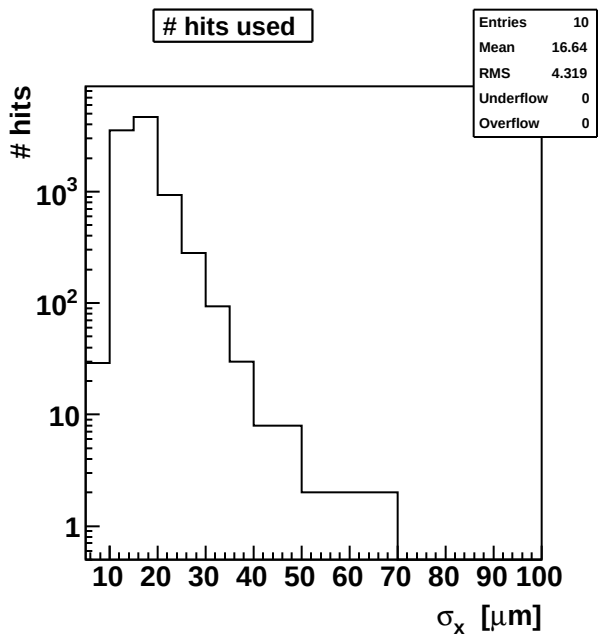

normalized residual $r_x/\sigma_{r,x}$
5
−0.4509
RMS 1.004
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 27.36
RMS 6.637
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

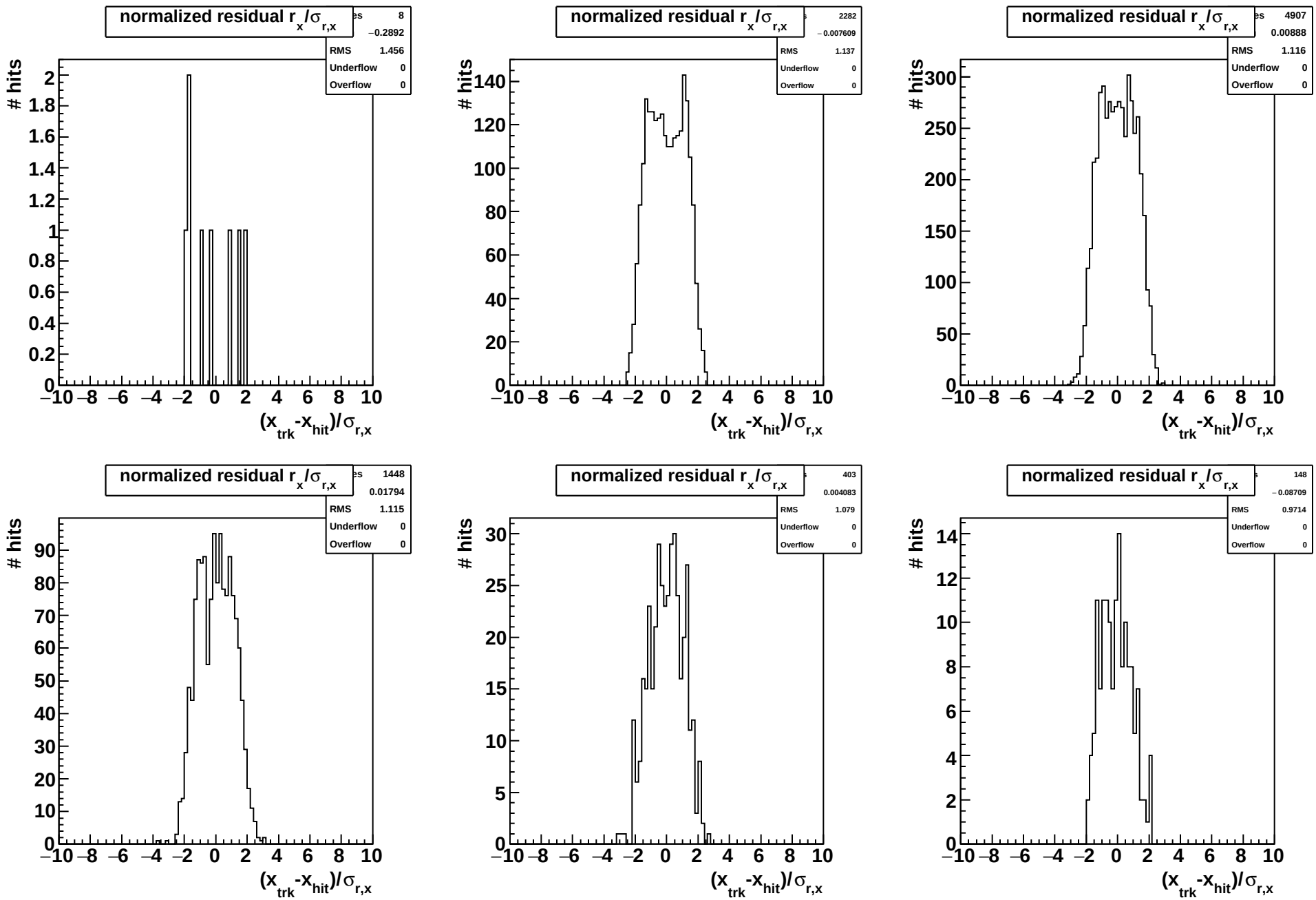
Sector_24/ -- TobLayer1RphiIn

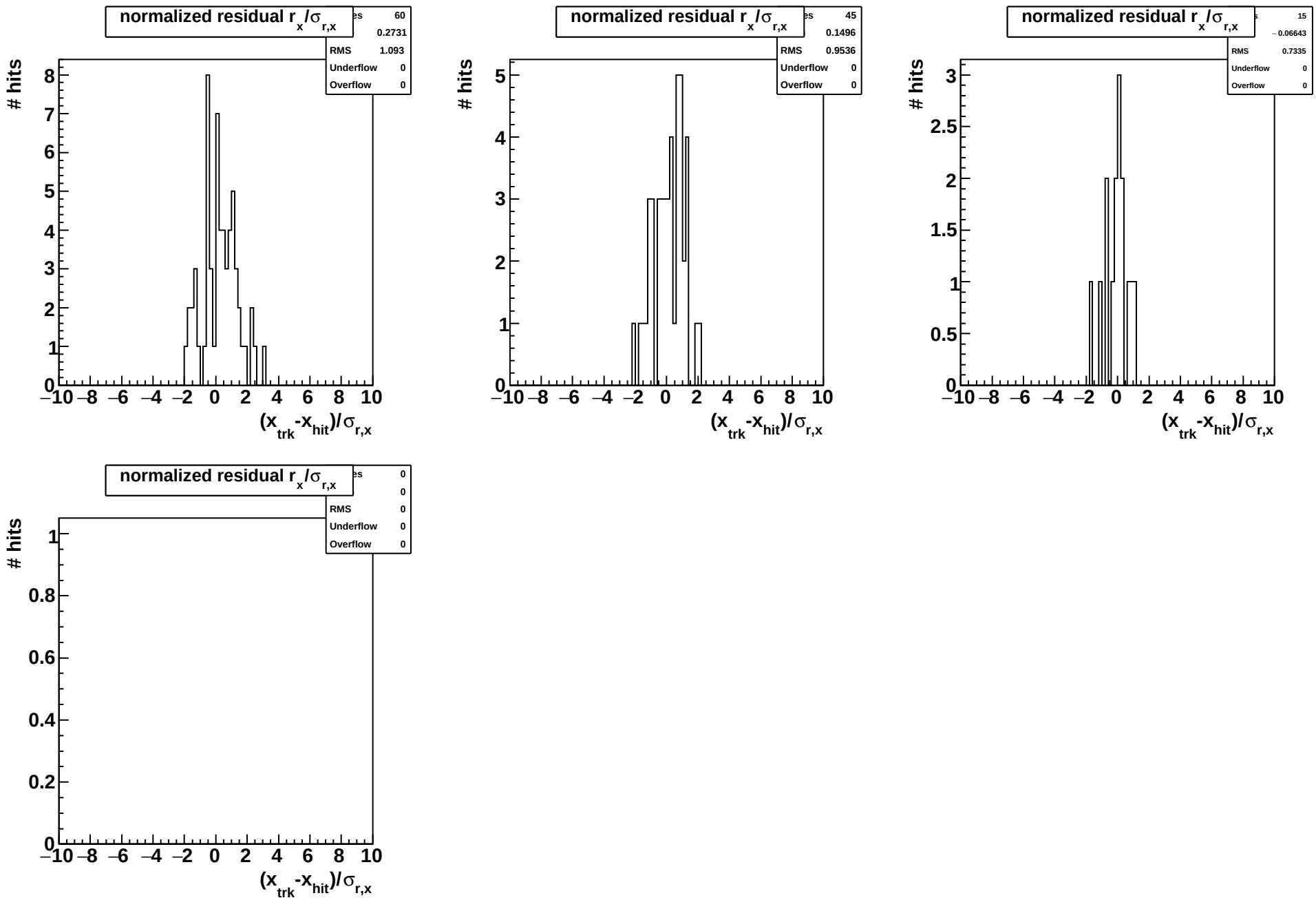

normalized residual $r_x/\sigma_{r,x}$
29
−0.3001
RMS 1.129
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
3556
−0.001314
RMS 1.11
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
4662
0.002501
RMS 1.099
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
933
0.01994
RMS 1.085
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
282
0.03998
RMS 0.9847
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
94
−0.0911
RMS 1.001
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

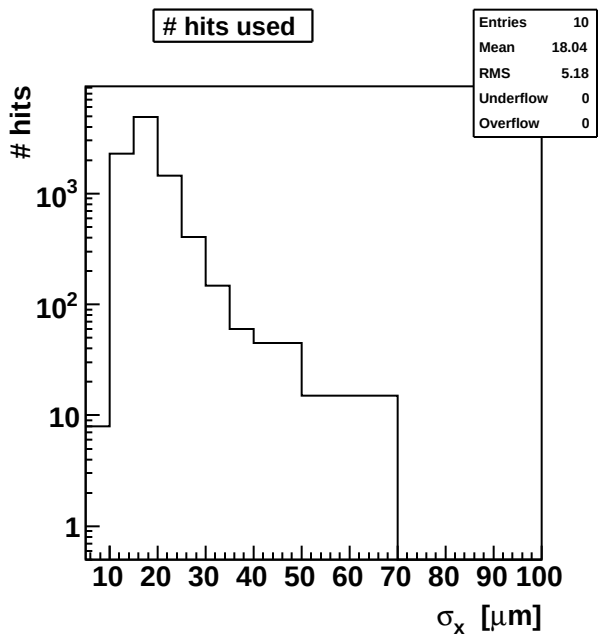

normalized residual $r_x/\sigma_{r,x}$
es 30
−0.1167
RMS 0.9574
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 8
−0.166
RMS 0.671
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 2
−0.265
RMS 0.2572
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 16.64
RMS 4.319
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

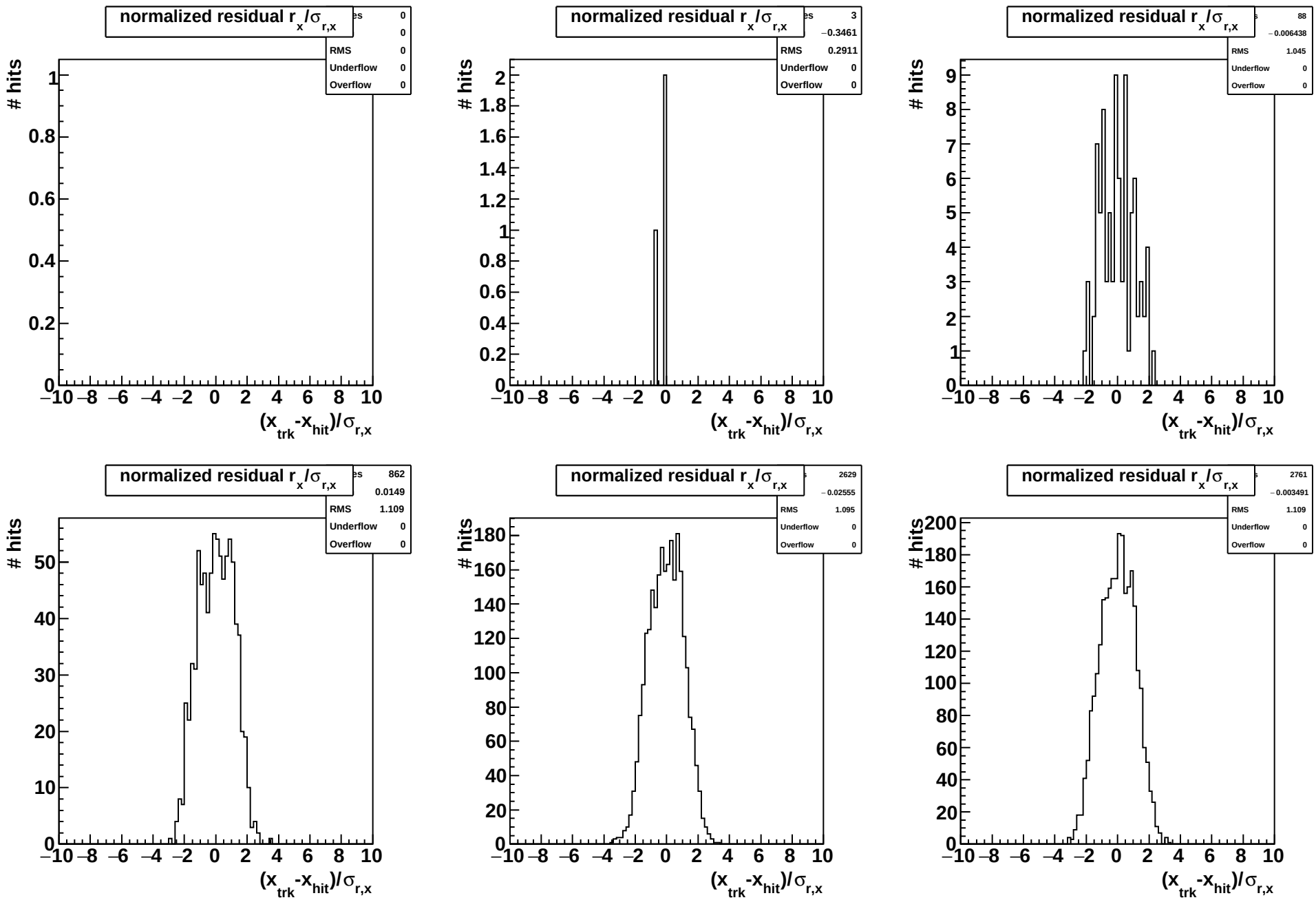
Sector_25/ -- TobLayer2RphiOut

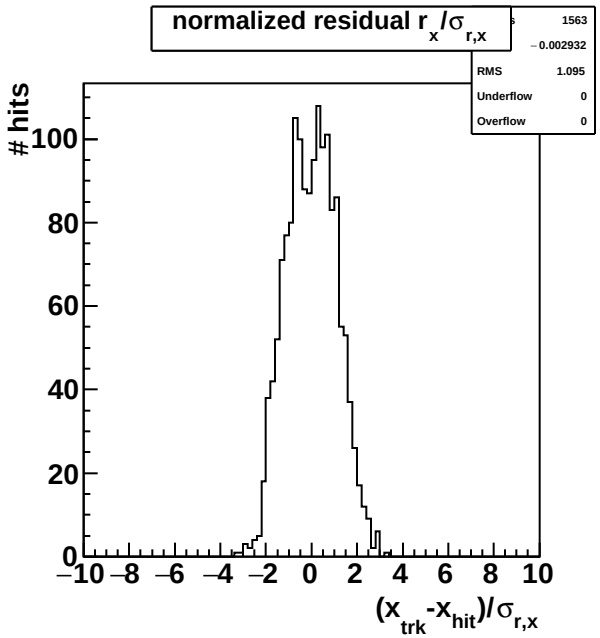

normalized residual $r_x/\sigma_{r,x}$
8
−0.2892
RMS 1.456
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2282
−0.007609
RMS 1.137
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
4907
0.00888
RMS 1.116
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1448
0.01794
RMS 1.115
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
403
0.004083
RMS 1.079
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
148
−0.08709
RMS 0.9714
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

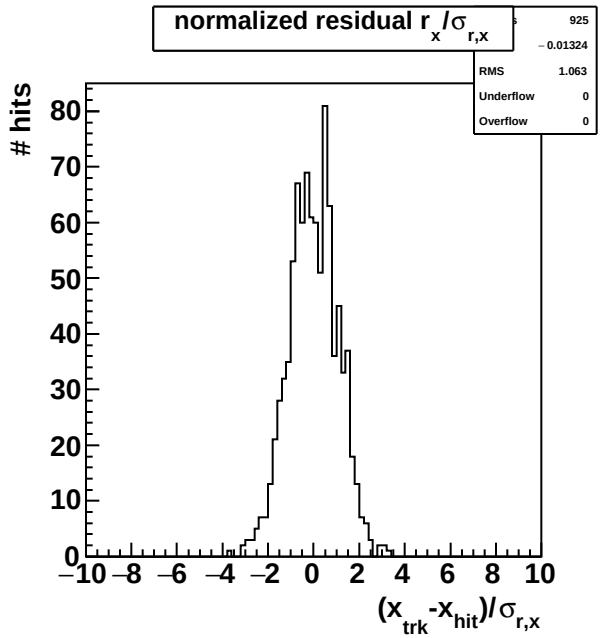

normalized residual $r_x/\sigma_{r,x}$
60
0.2731
RMS 1.093
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
45
0.1496
RMS 0.9536
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
15
– 0.06643
RMS 0.7335
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

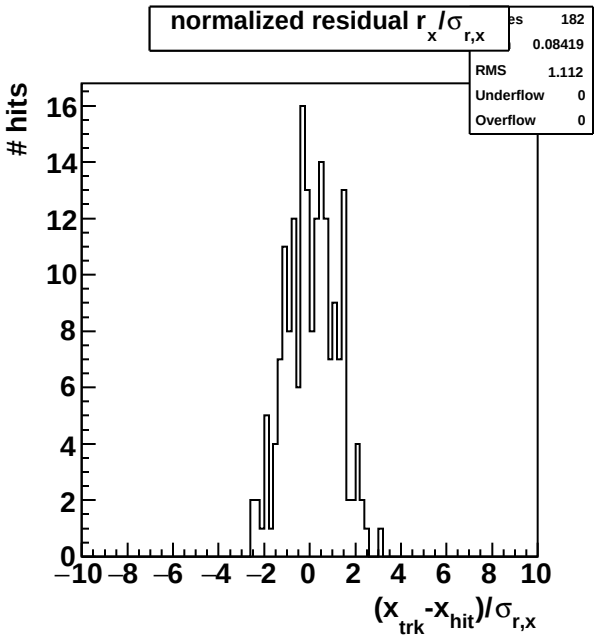

hits used
Entries 10
Mean 18.04
RMS 5.18
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

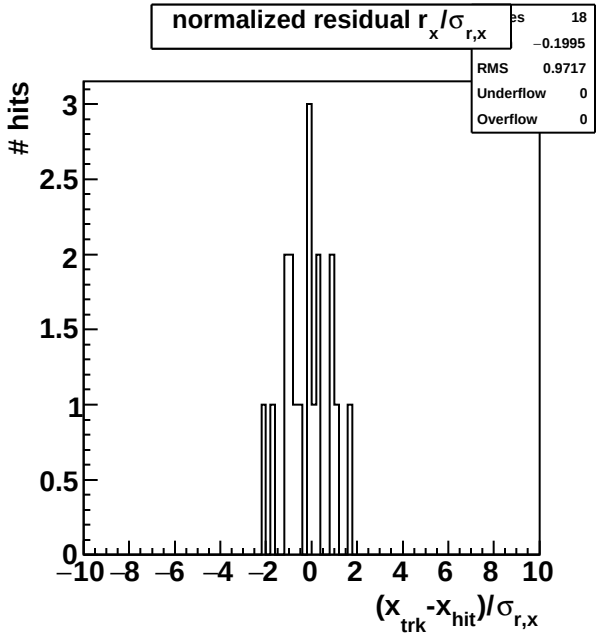
Sector_26/ -- TobLayer2StereoIn

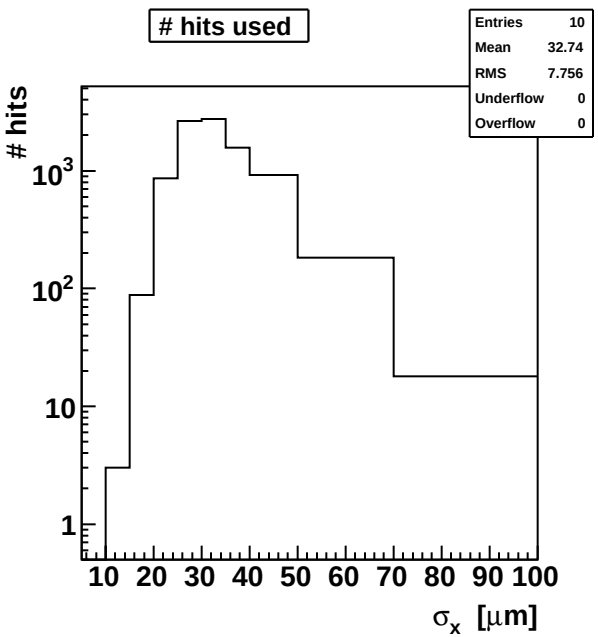

normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 3
−0.3461
RMS 0.2911
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 88
−0.006438
RMS 1.045
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 862
0.0149
RMS 1.109
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 2629
−0.02555
RMS 1.095
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 2761
−0.003491
RMS 1.109
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
1563
−0.002932
RMS 1.095
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

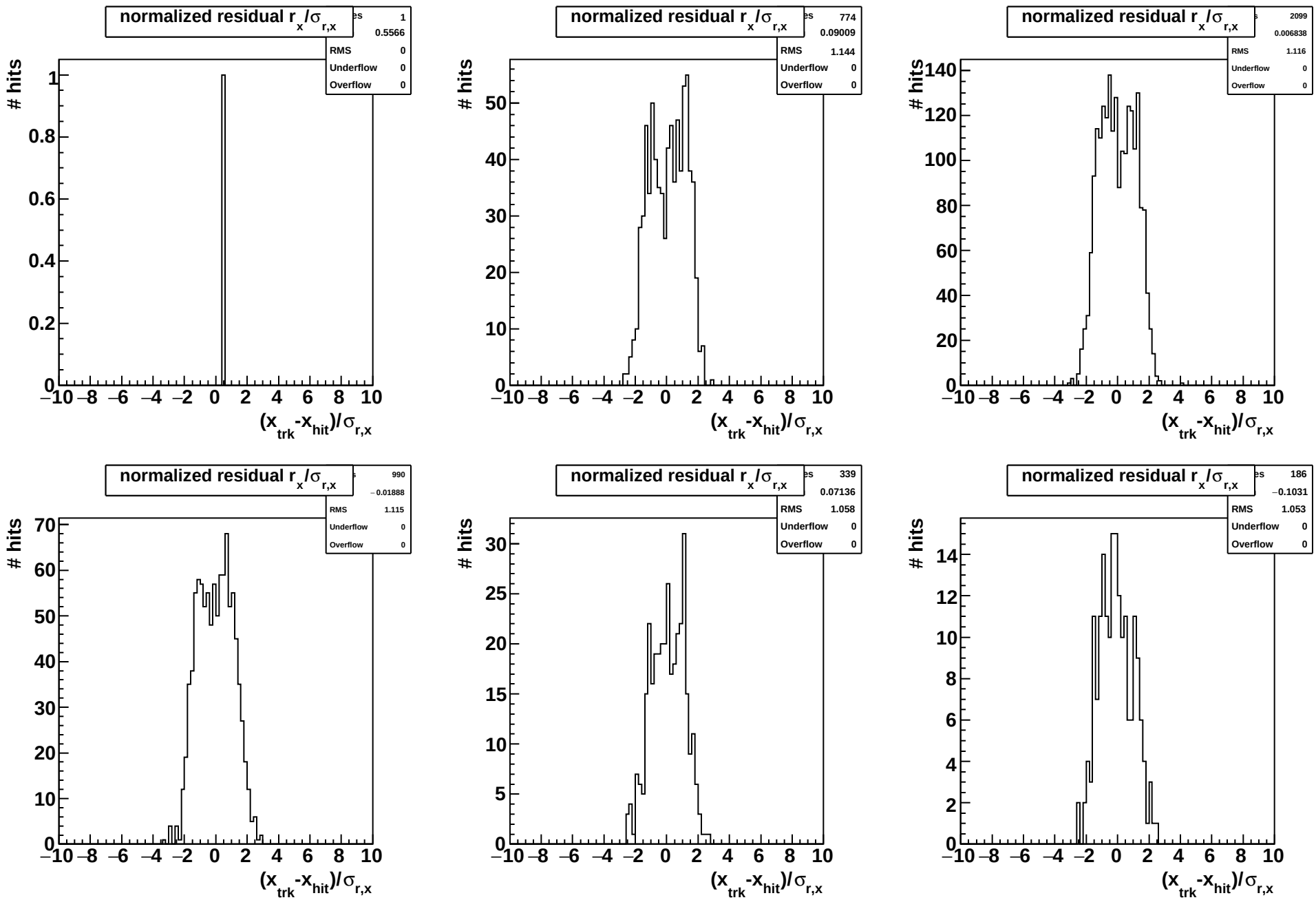

normalized residual $r_x/\sigma_{r,x}$
925
−0.01324
RMS 1.063
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

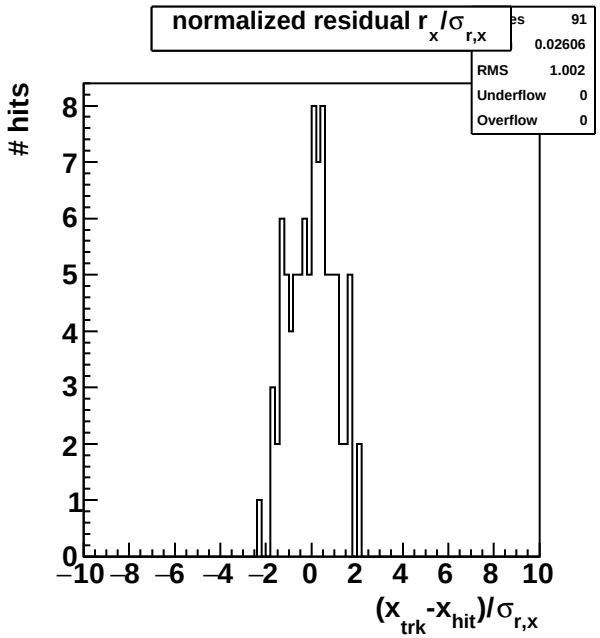

normalized residual $r_x/\sigma_{r,x}$
182
0.08419
RMS 1.112
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

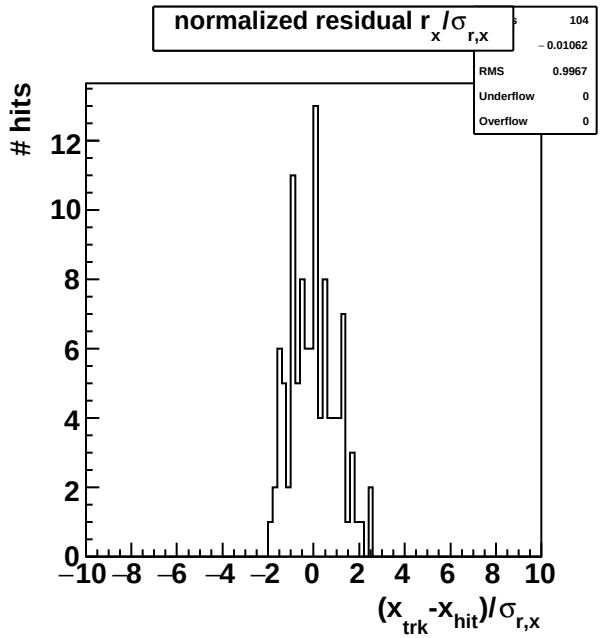

normalized residual $r_x/\sigma_{r,x}$
18
−0.1995
RMS 0.9717
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

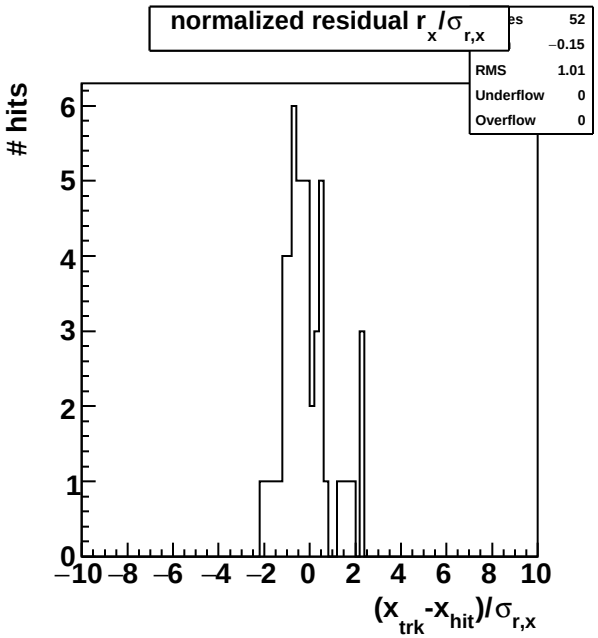

hits used
Entries 10
Mean 32.74
RMS 7.756
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

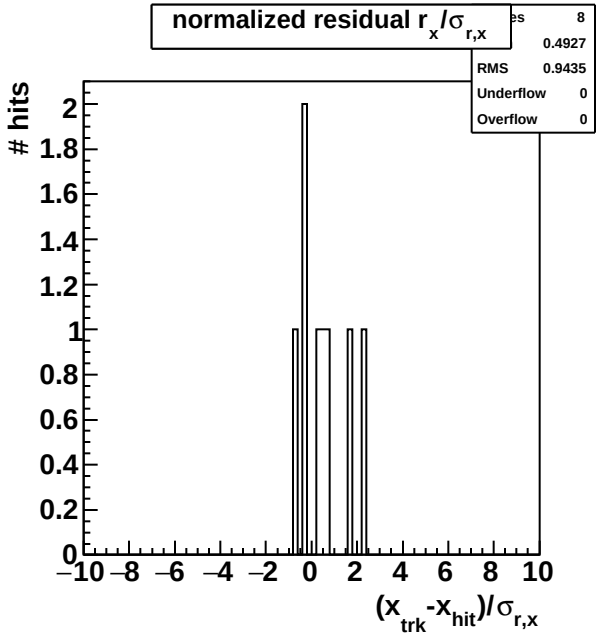
Sector_27/ -- TobLayer3Out

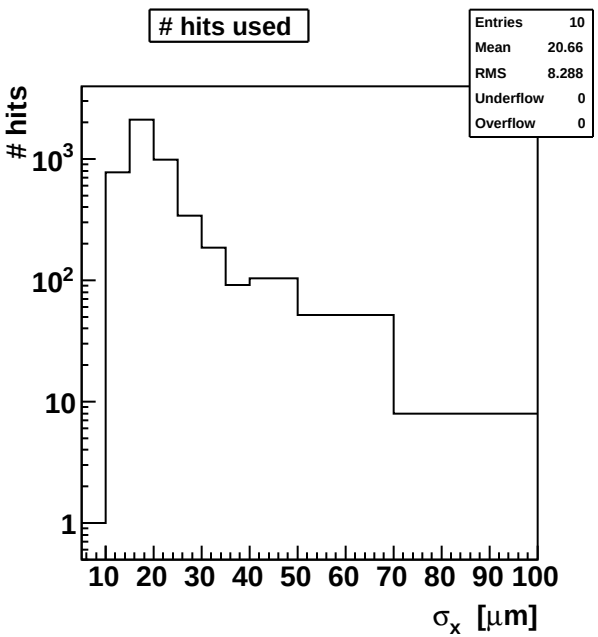

normalized residual $r_x/\sigma_{r,x}$
1
0.5566
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
774
0.09009
RMS 1.144
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2099
0.006838
RMS 1.116
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
990
−0.01888
RMS 1.115
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
339
0.07136
RMS 1.058
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
186
−0.1031
RMS 1.053
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
91
0.02606
RMS 1.002
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

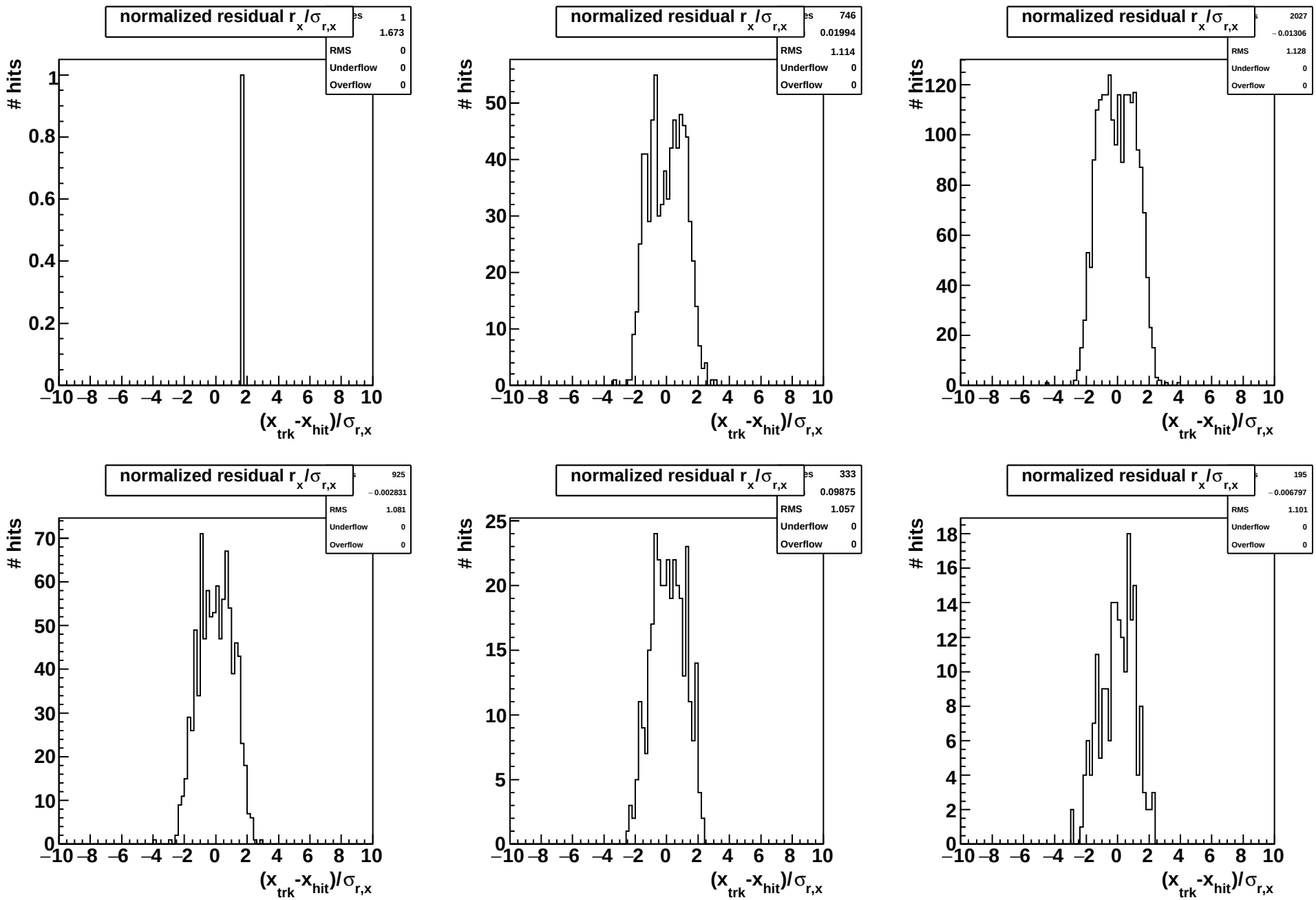

normalized residual $r_x/\sigma_{r,x}$
104
−0.01062
RMS 0.9967
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

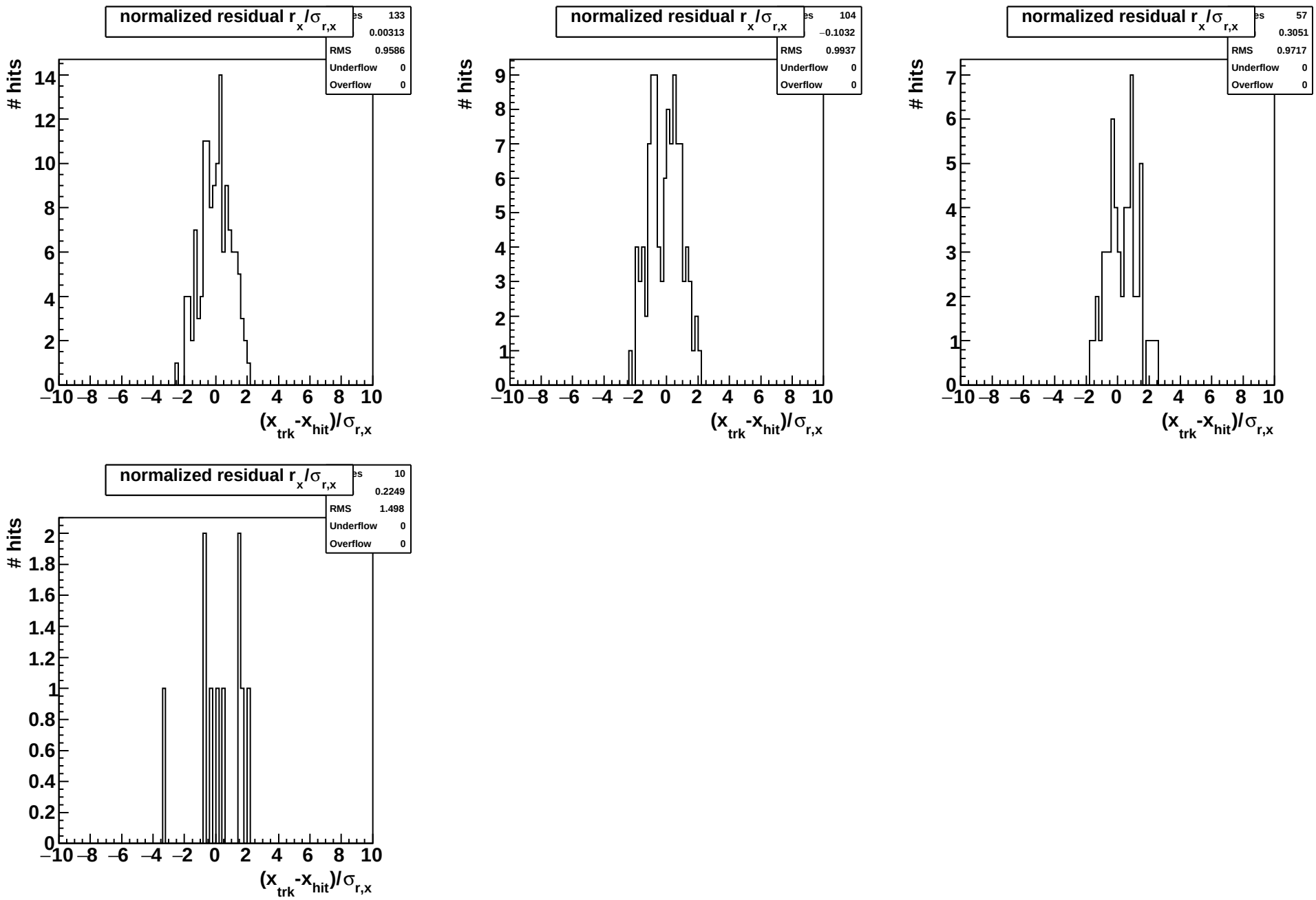

normalized residual $r_x/\sigma_{r,x}$
52
−0.15
RMS 1.01
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

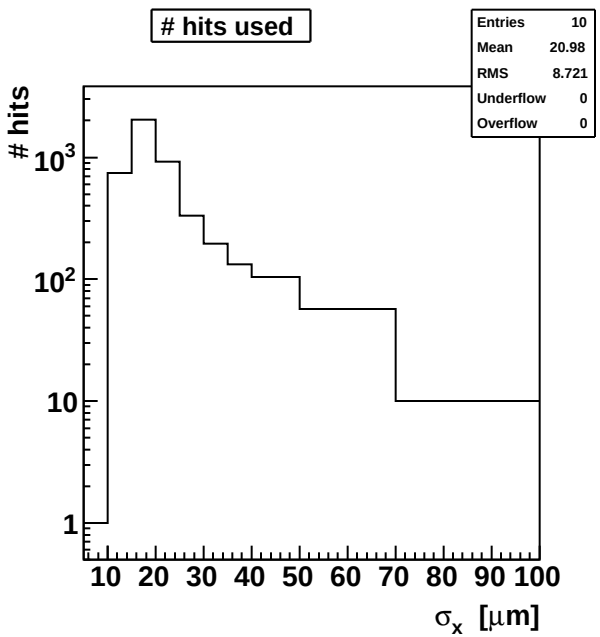

normalized residual $r_x/\sigma_{r,x}$
8
0.4927
RMS 0.9435
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 20.66
RMS 8.288
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

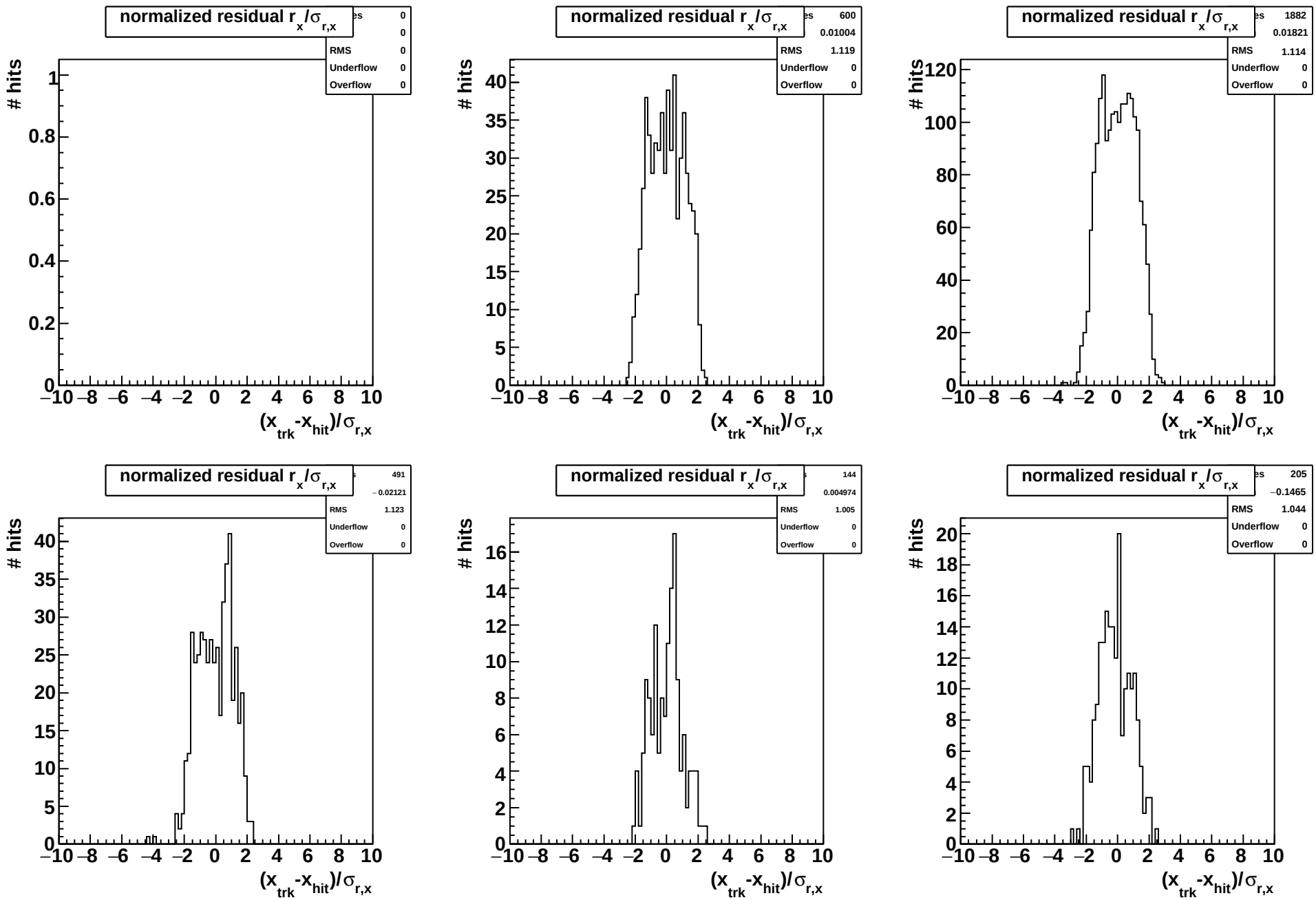
Sector_28/ -- TobLayer3In

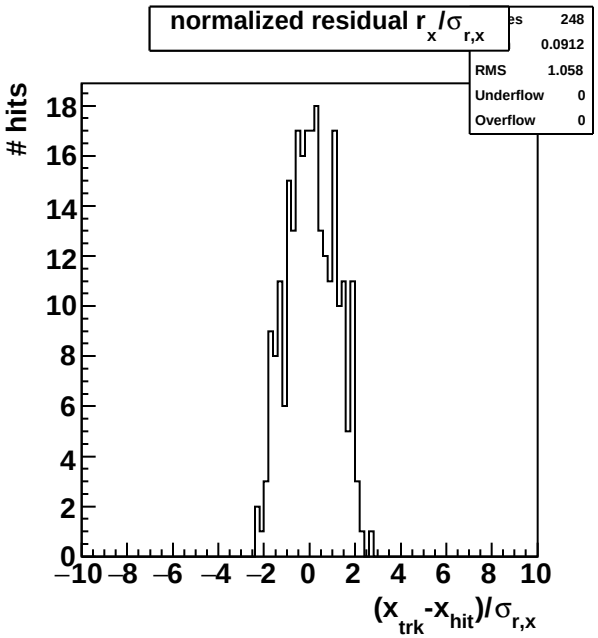

normalized residual $r_x/\sigma_{r,x}$
1
1.673
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
746
0.01994
RMS 1.114
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2027
−0.01306
RMS 1.128
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
925
−0.002831
RMS 1.081
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
333
0.09875
RMS 1.057
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
195
−0.006797
RMS 1.101
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

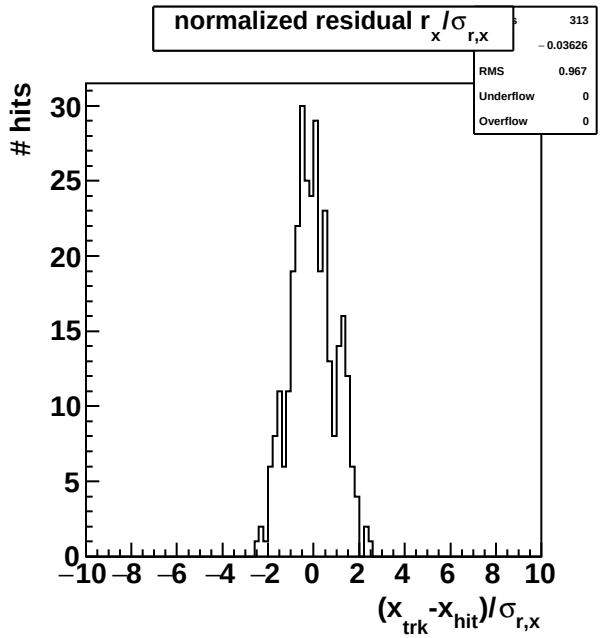

normalized residual $r_x/\sigma_{r,x}$
es 133
0.00313
RMS 0.9586
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 104
−0.1032
RMS 0.9937
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 57
0.3051
RMS 0.9717
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 10
0.2249
RMS 1.498
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

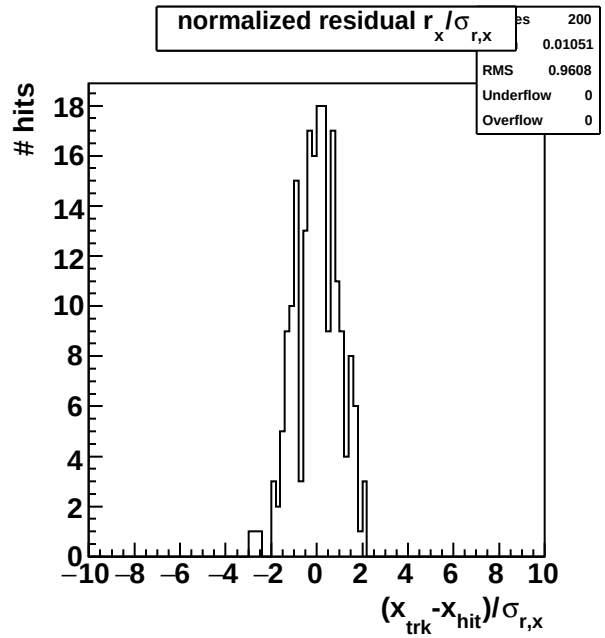

hits used
Entries 10
Mean 20.98
RMS 8.721
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

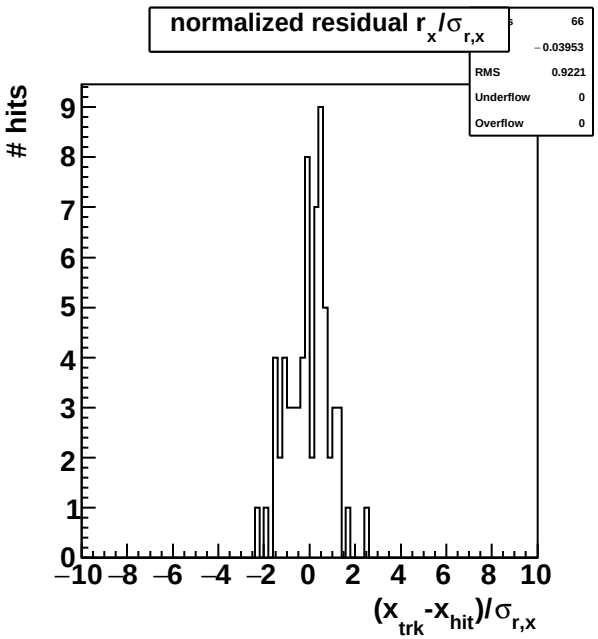
Sector_29/ -- TobLayer4Out

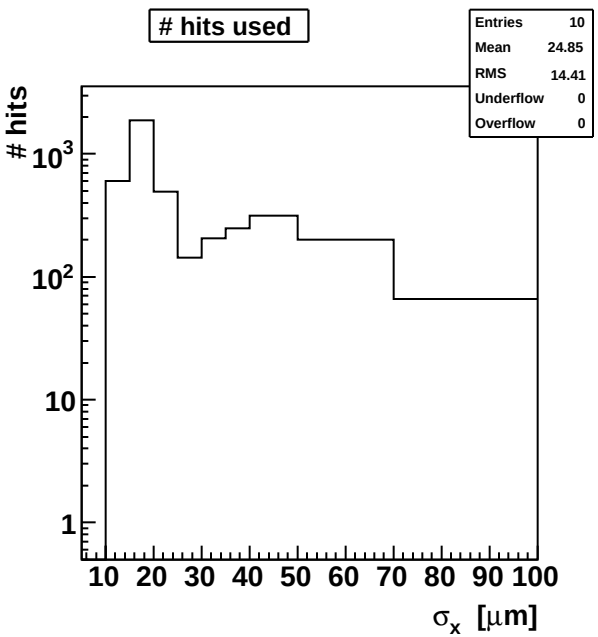

normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 600
0.01004
RMS 1.119
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 1882
0.01821
RMS 1.114
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 491
−0.02121
RMS 1.123
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 144
0.004974
RMS 1.005
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 205
−0.1465
RMS 1.044
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
248
0.0912
RMS 1.058
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

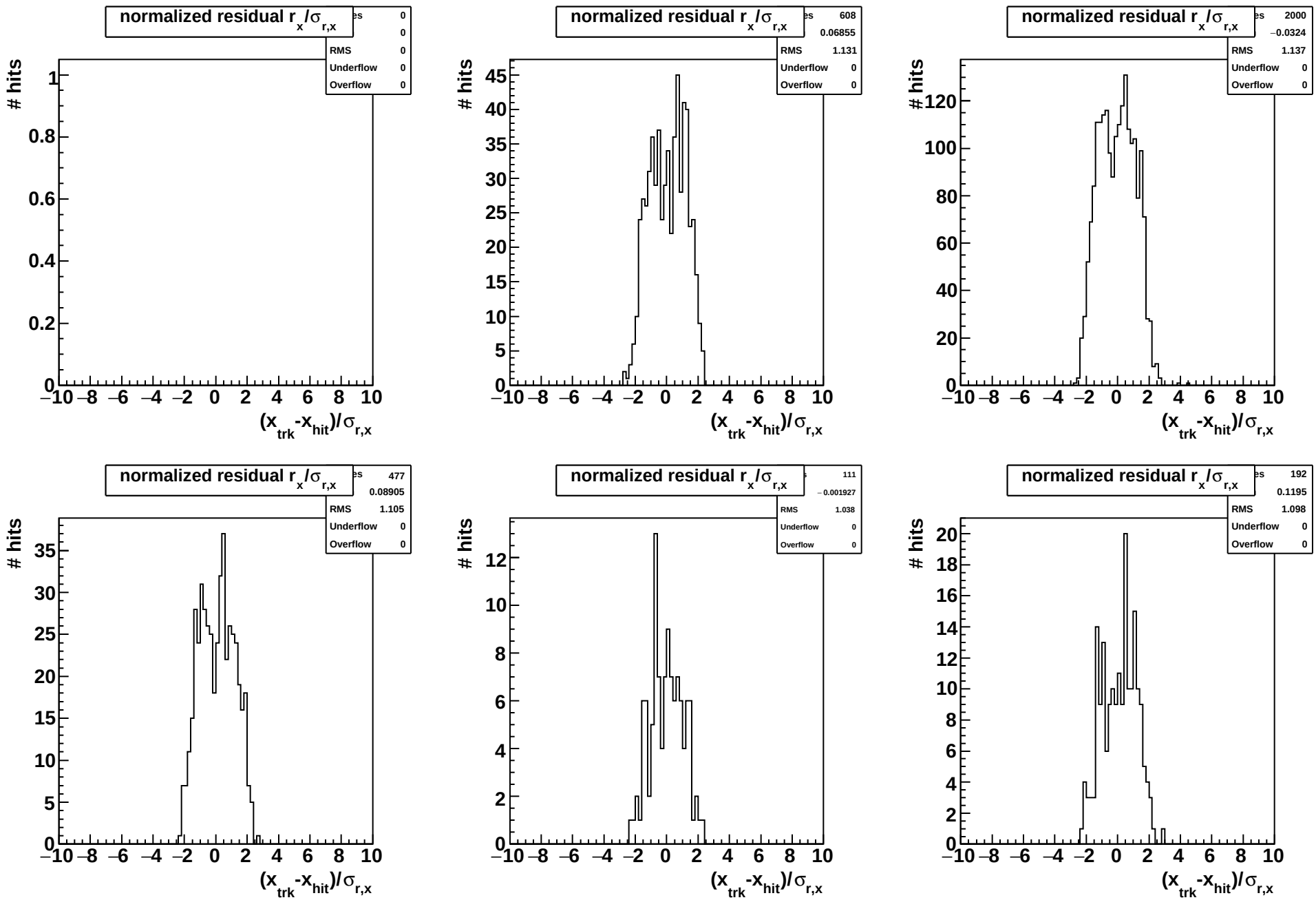

normalized residual $r_x/\sigma_{r,x}$
313
−0.03626
RMS 0.967
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

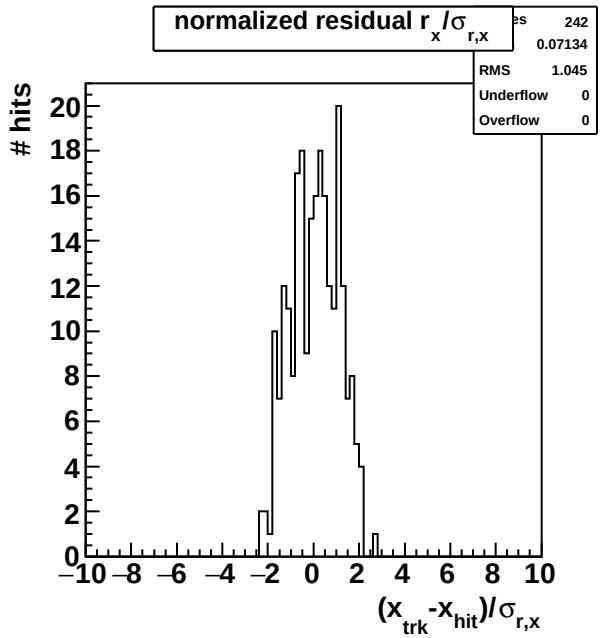

normalized residual $r_x/\sigma_{r,x}$
200
0.01051
RMS 0.9608
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

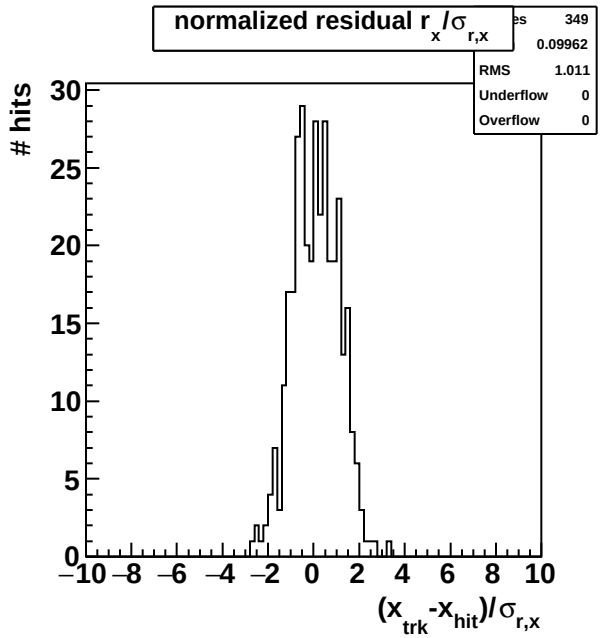

normalized residual $r_x/\sigma_{r,x}$
66
−0.03953
RMS 0.9221
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

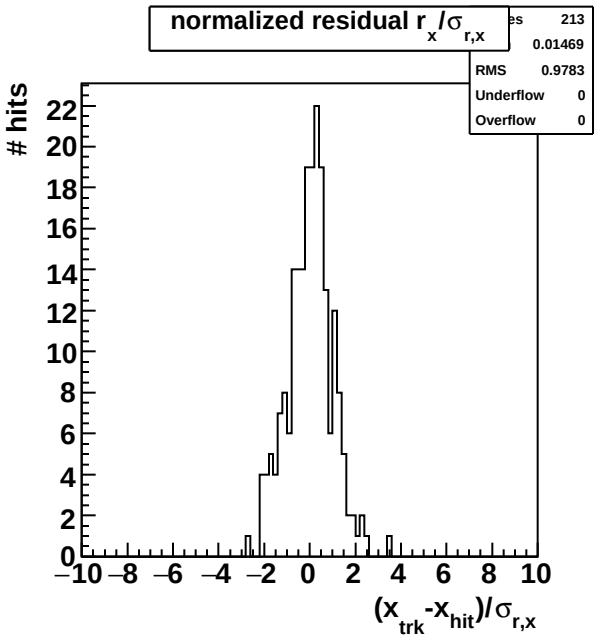

hits used
Entries 10
Mean 24.85
RMS 14.41
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

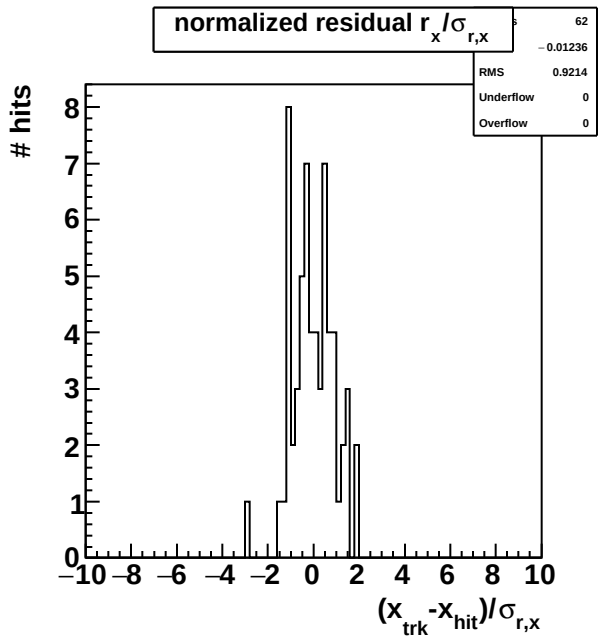
Sector_30/ -- TobLayer4In

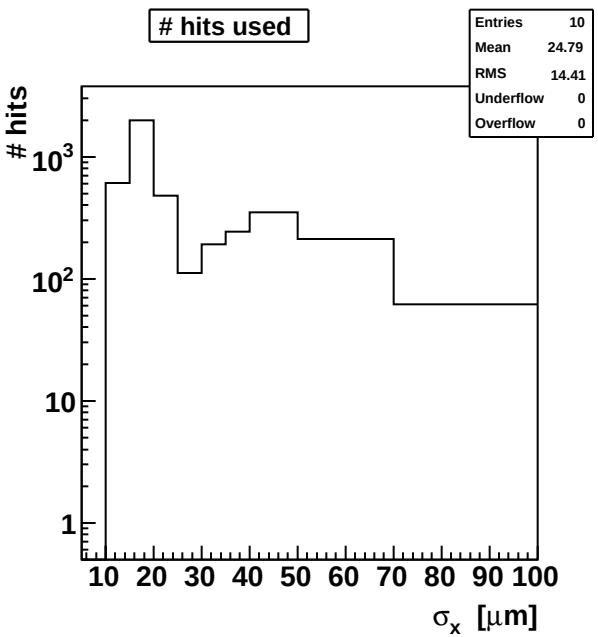

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
608
0.06855
RMS 1.131
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2000
−0.0324
RMS 1.137
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
477
0.08905
RMS 1.105
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
111
−0.001927
RMS 1.038
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
192
0.1195
RMS 1.098
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
242
0.07134
RMS 1.045
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

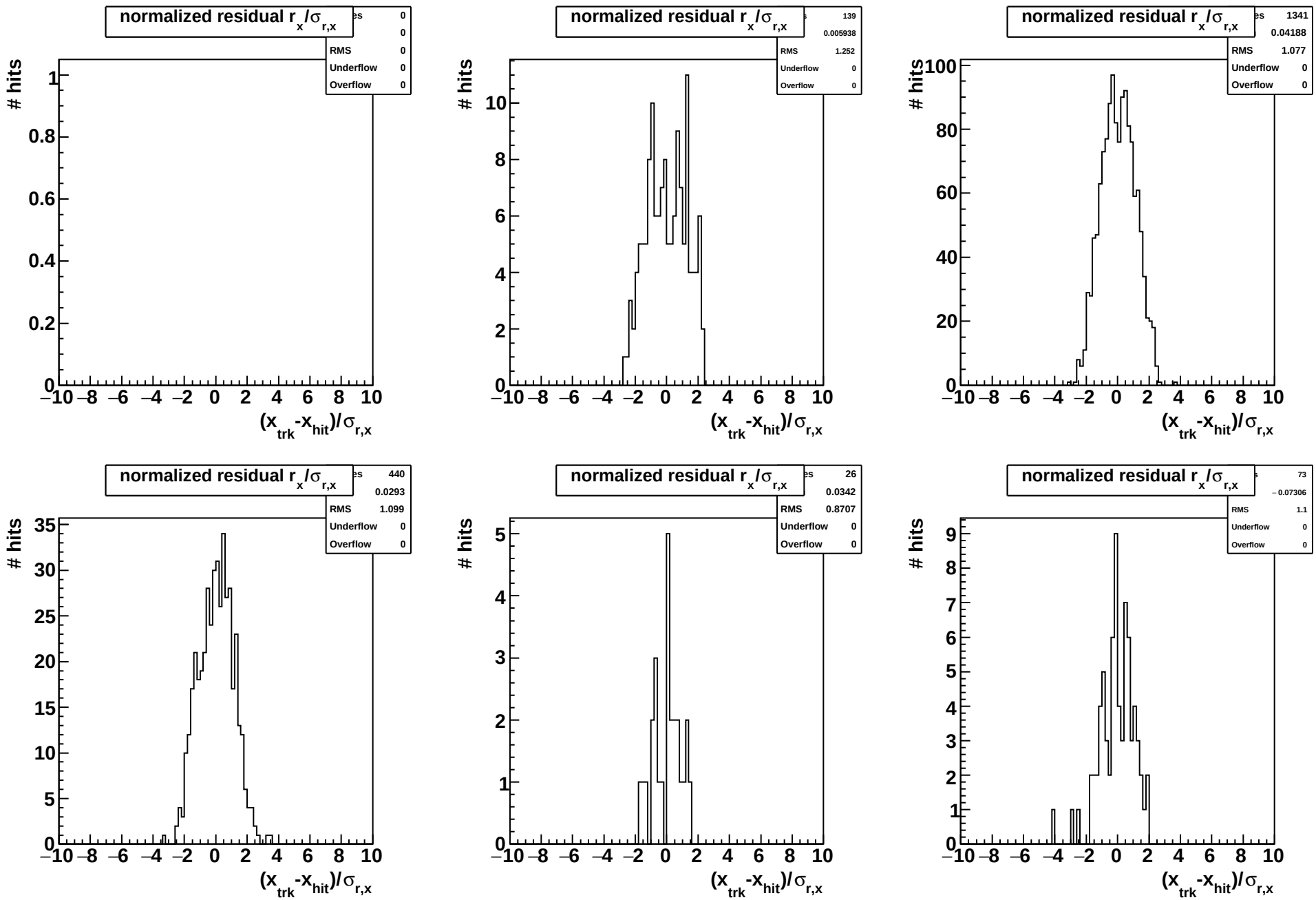

normalized residual $r_x/\sigma_{r,x}$
349
0.09962
RMS 1.011
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

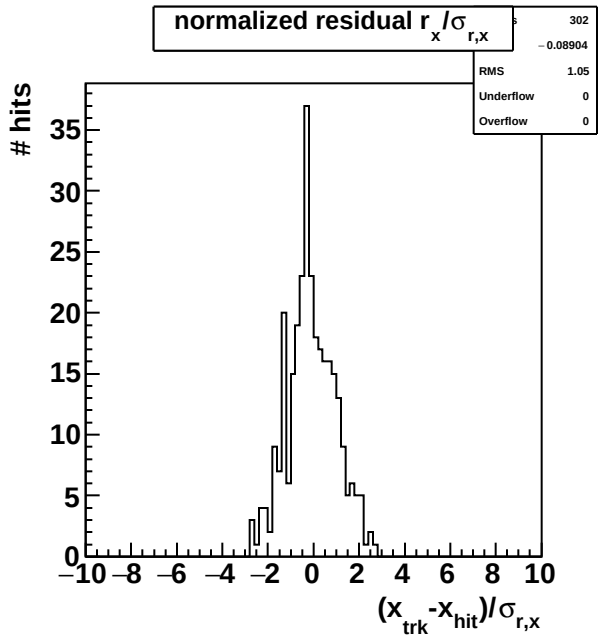

normalized residual $r_x/\sigma_{r,x}$
213
0.01469
RMS 0.9783
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

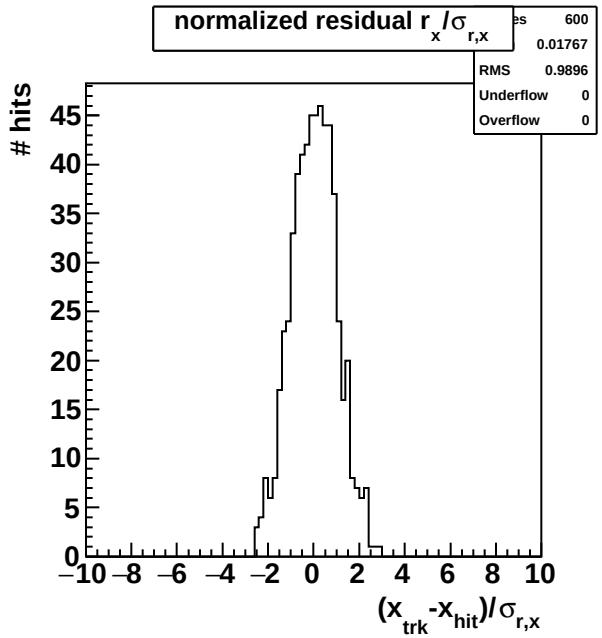

normalized residual $r_x/\sigma_{r,x}$
62
– 0.01236
RMS 0.9214
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

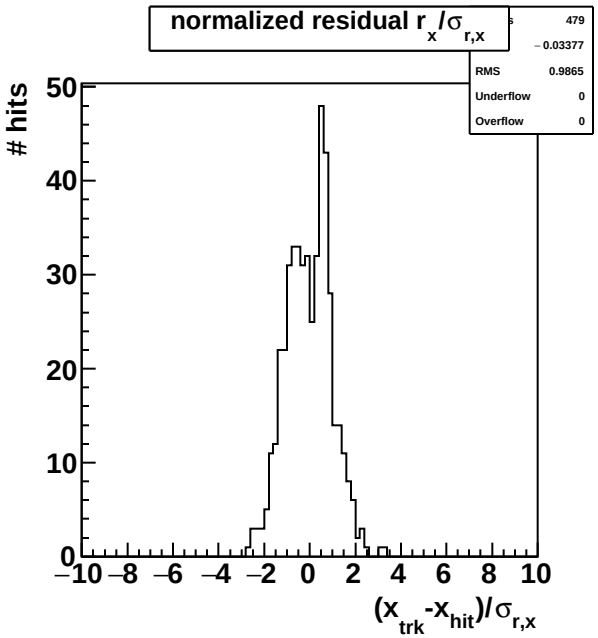

hits used
Entries 10
Mean 24.79
RMS 14.41
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

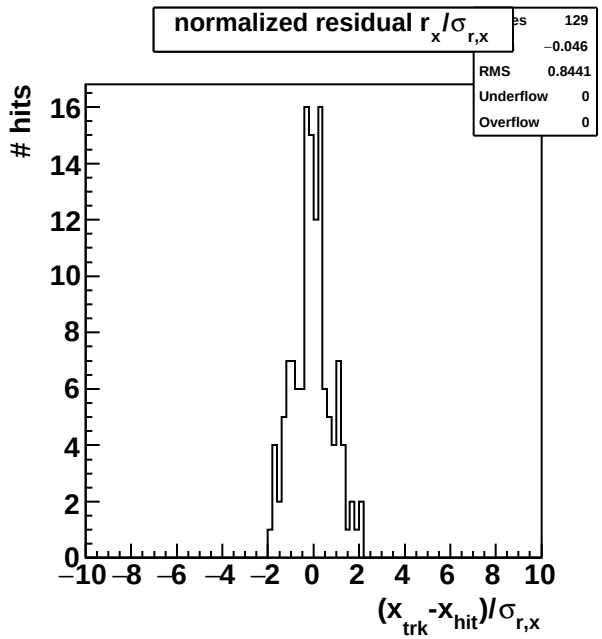
Sector_31/ -- TobLayer5Out

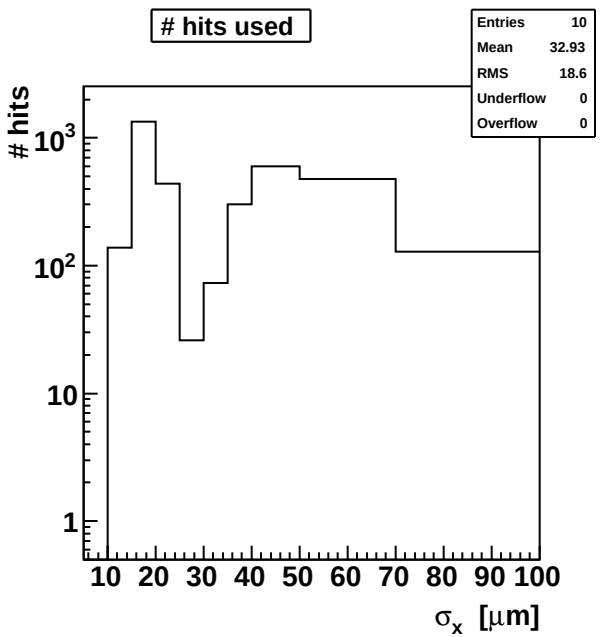

normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 139
0.005938
RMS 1.252
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 1341
0.04188
RMS 1.077
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 440
0.0293
RMS 1.099
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 26
0.0342
RMS 0.8707
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 73
− 0.07306
RMS 1.1
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
302
−0.08904
RMS 1.05
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

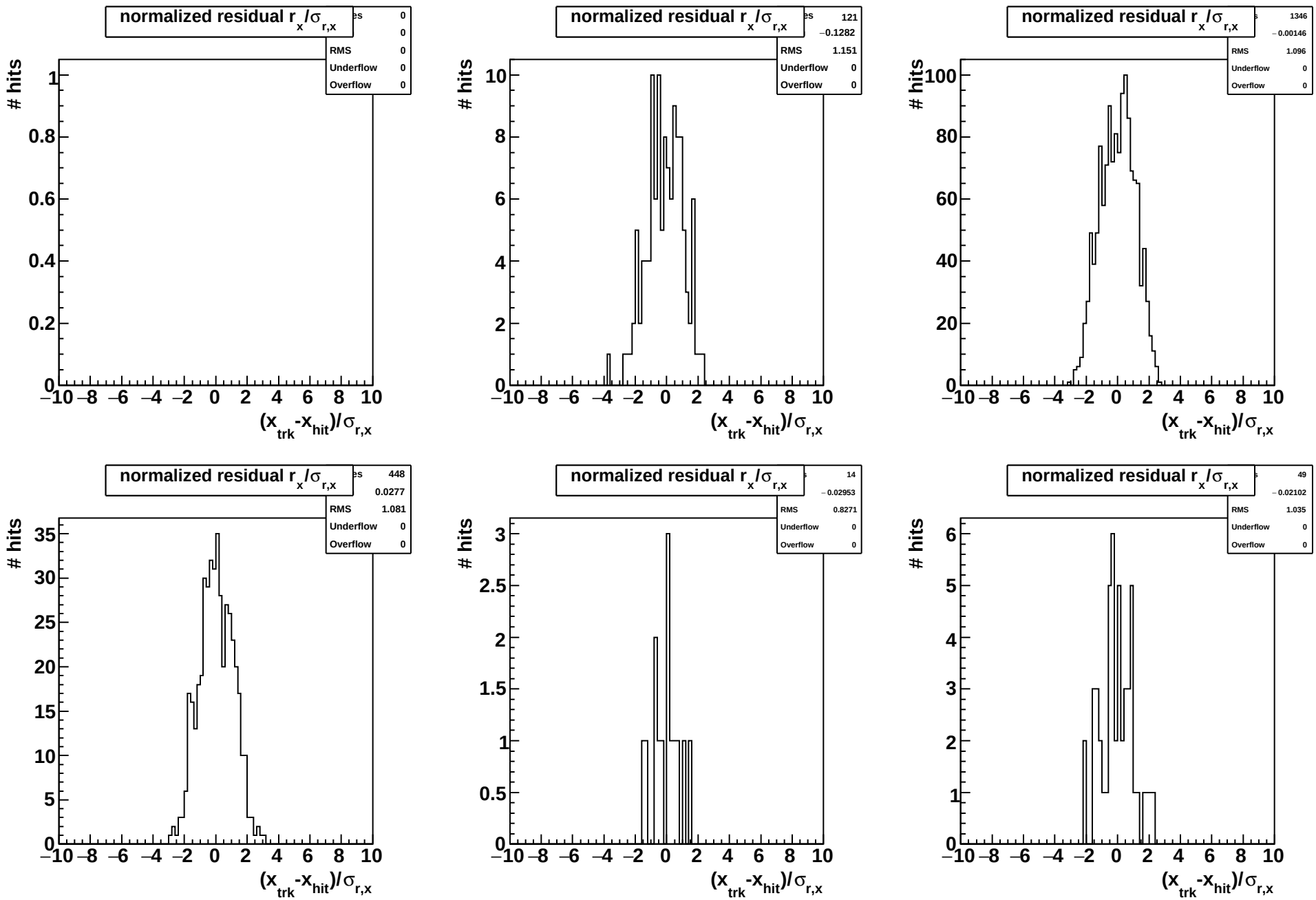

normalized residual $r_x/\sigma_{r,x}$
600
0.01767
RMS 0.9896
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

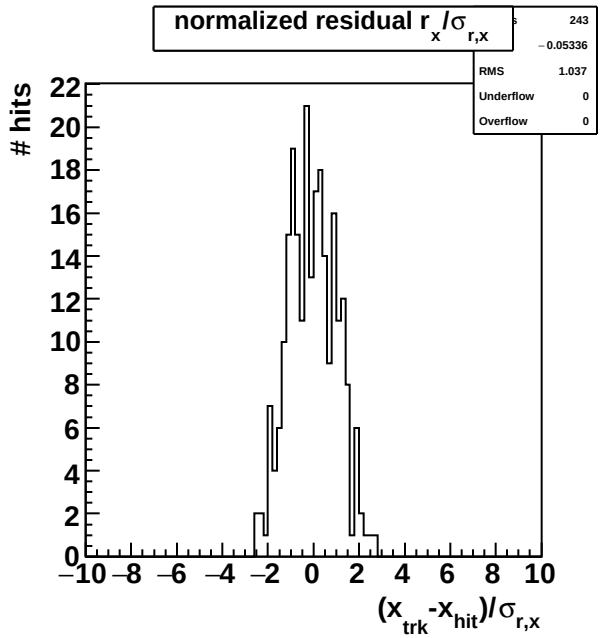

normalized residual $r_x/\sigma_{r,x}$
479
−0.03377
RMS 0.9865
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

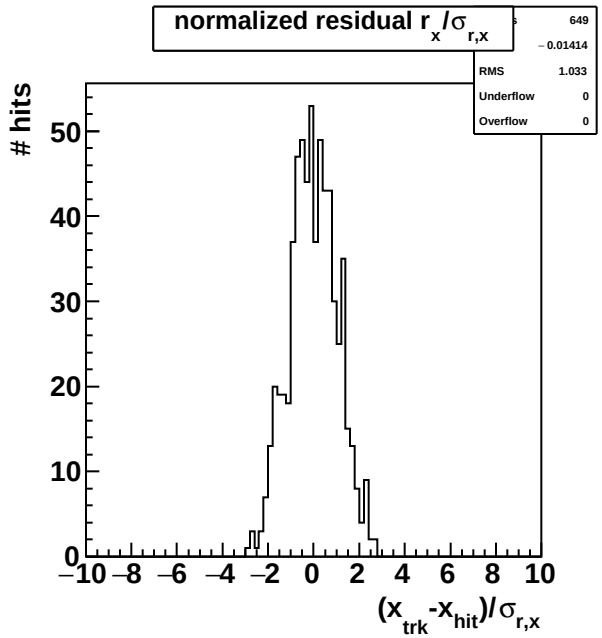

normalized residual $r_x/\sigma_{r,x}$
129
−0.046
RMS 0.8441
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

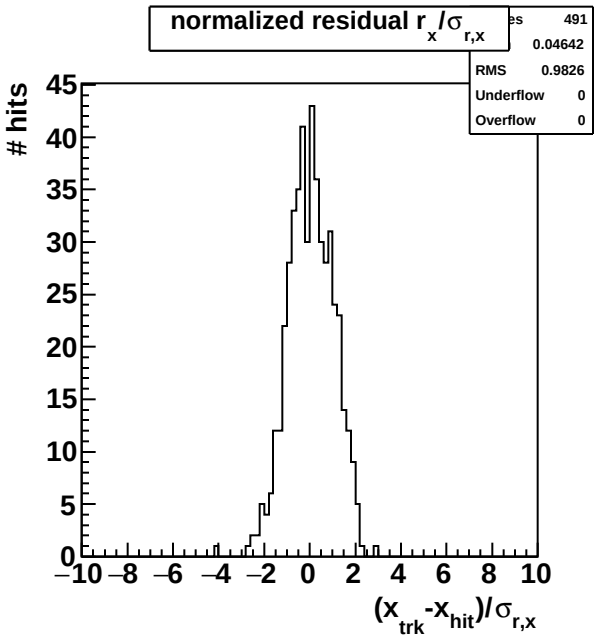

hits used
Entries 10
Mean 32.93
RMS 18.6
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

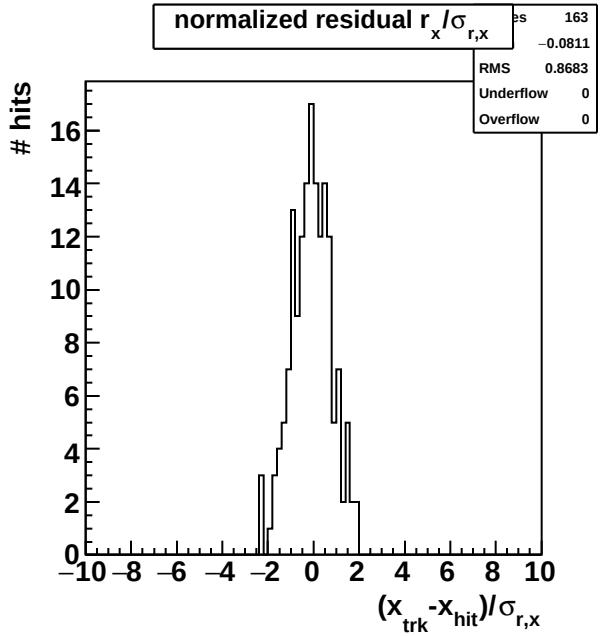
Sector_32/ -- TobLayer5In

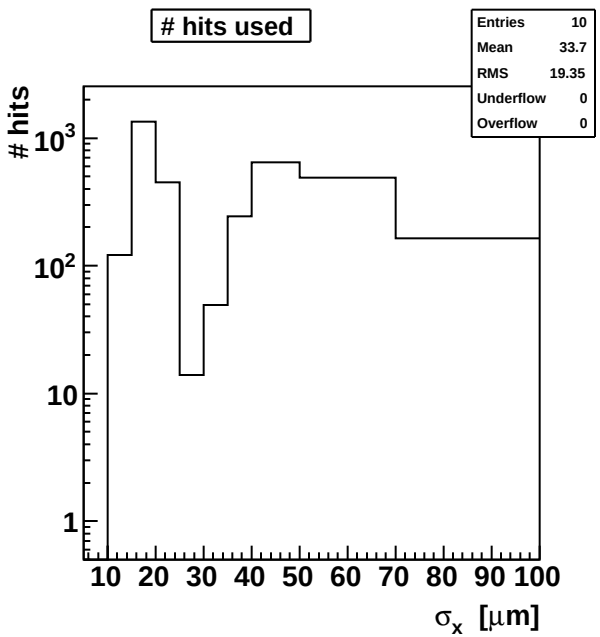

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
121
−0.1282
RMS 1.151
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1346
− 0.00146
RMS 1.096
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
448
0.0277
RMS 1.081
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
14
− 0.02953
RMS 0.8271
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
49
− 0.02102
RMS 1.035
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
243
−0.05336
RMS 1.037
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

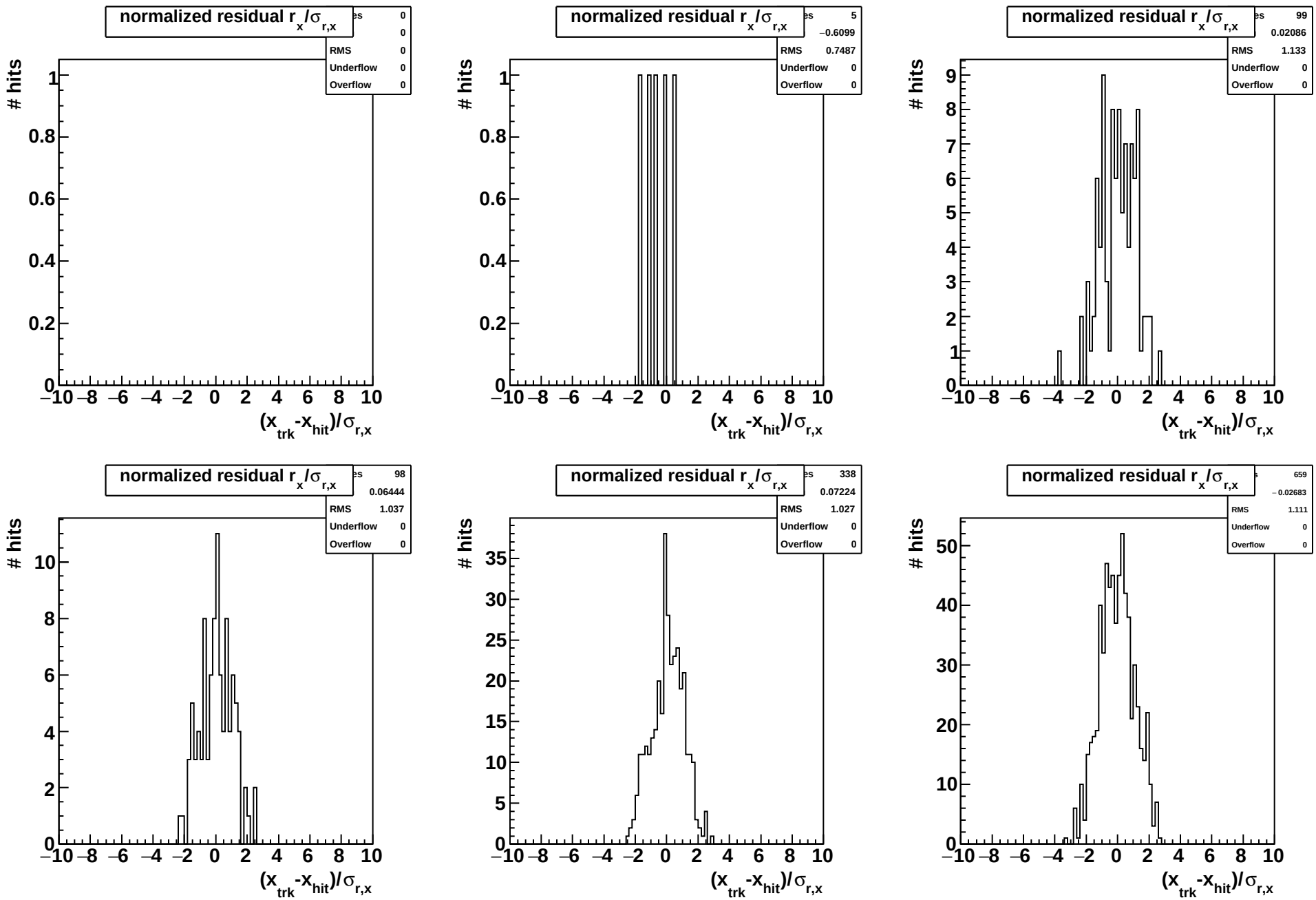

normalized residual $r_x/\sigma_{r,x}$
649
−0.01414
RMS 1.033
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

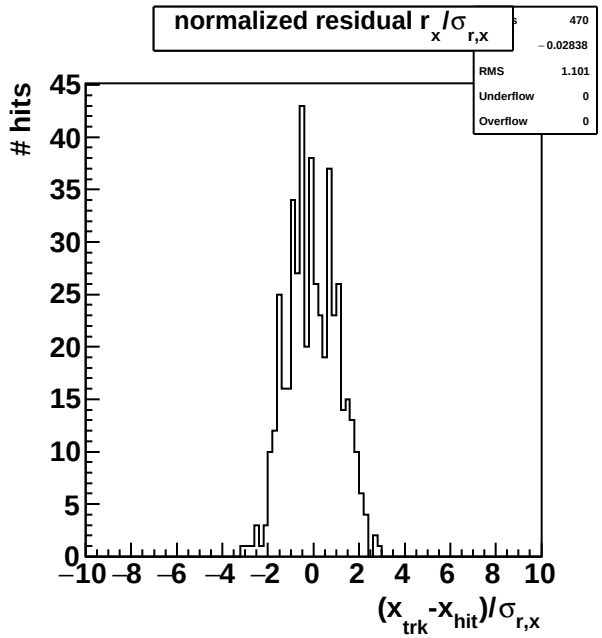

normalized residual $r_x/\sigma_{r,x}$
491
0.04642
RMS 0.9826
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

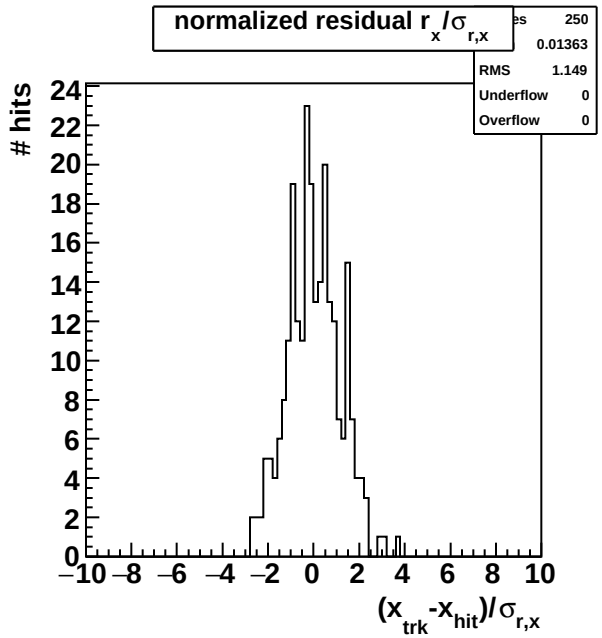

normalized residual $r_x/\sigma_{r,x}$
163
−0.0811
RMS 0.8683
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

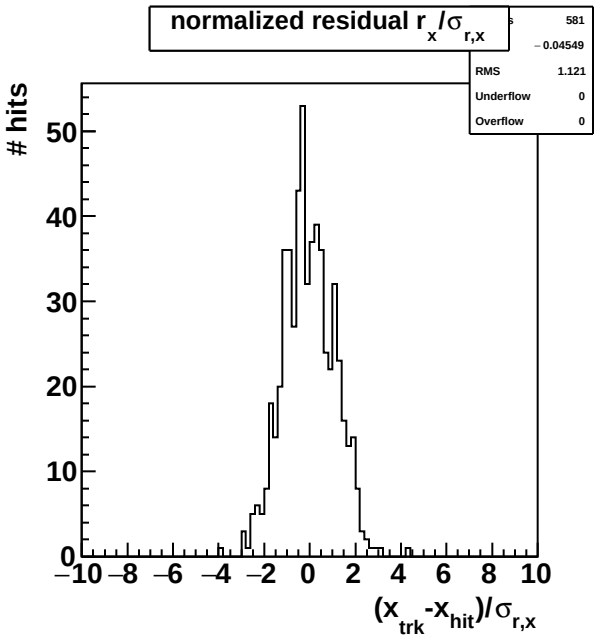

hits used
Entries 10
Mean 33.7
RMS 19.35
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

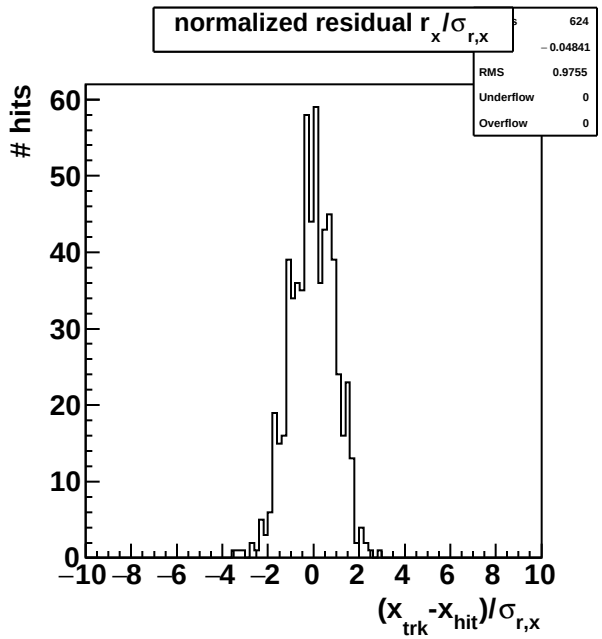
Sector_33/ -- TobLayer6Out

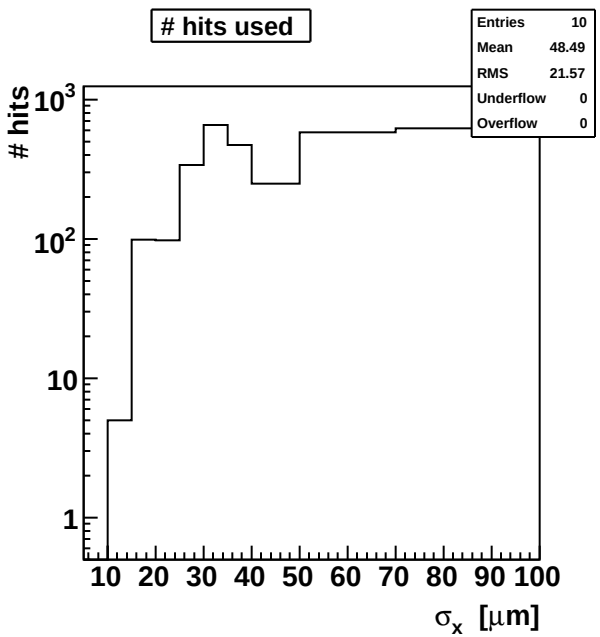

normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 5
−0.6099
RMS 0.7487
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 99
0.02086
RMS 1.133
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 98
0.06444
RMS 1.037
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 338
0.07224
RMS 1.027
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 659
− 0.02683
RMS 1.111
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
470
– 0.02838
RMS 1.101
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

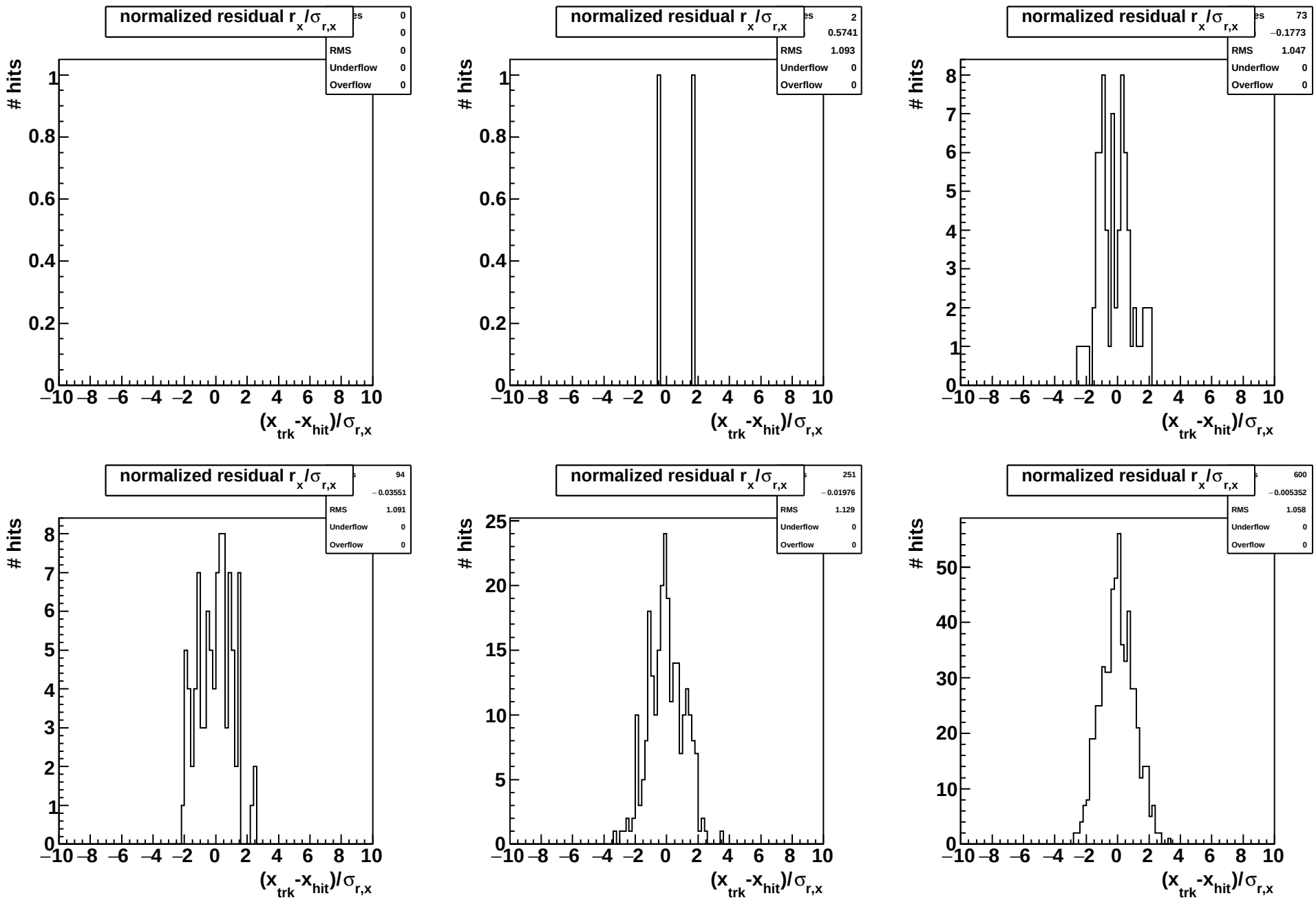

normalized residual $r_x/\sigma_{r,x}$
250
0.01363
RMS 1.149
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

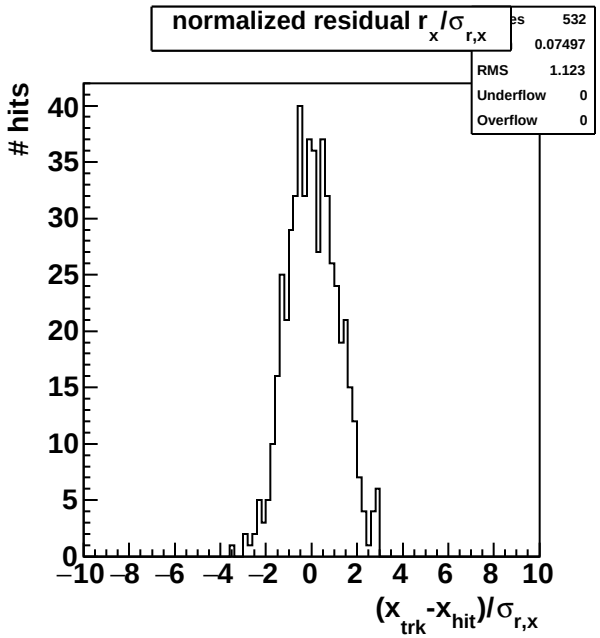

normalized residual $r_x/\sigma_{r,x}$
581
– 0.04549
RMS 1.121
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

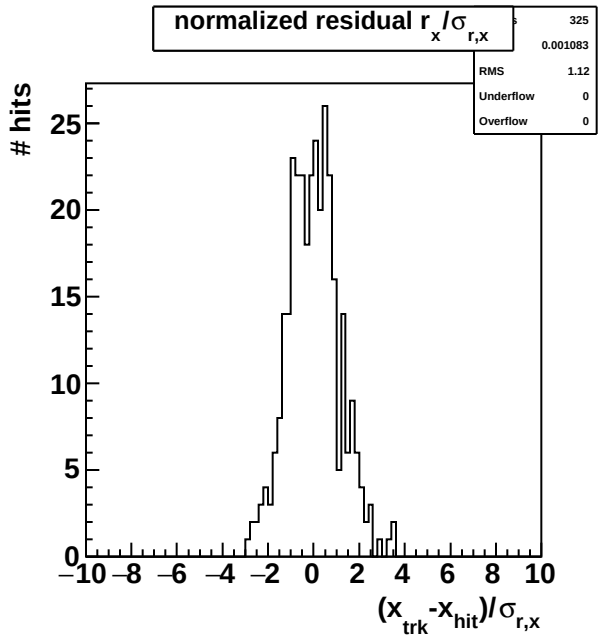

normalized residual $r_x/\sigma_{r,x}$
624
– 0.04841
RMS 0.9755
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

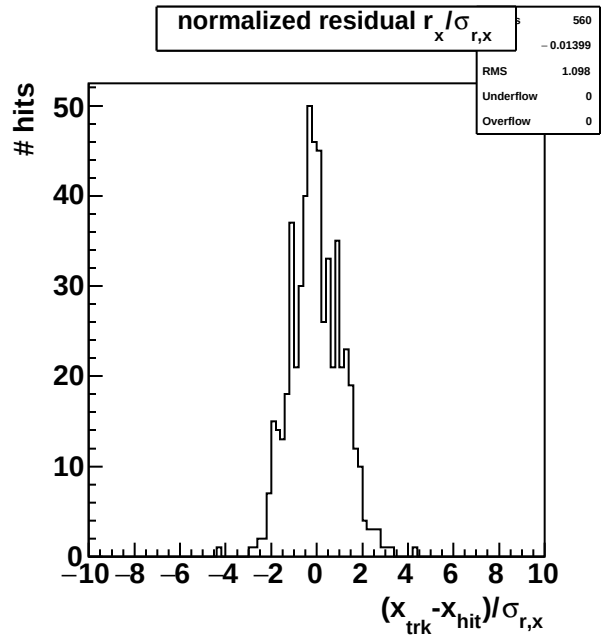

hits used
Entries 10
Mean 48.49
RMS 21.57
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

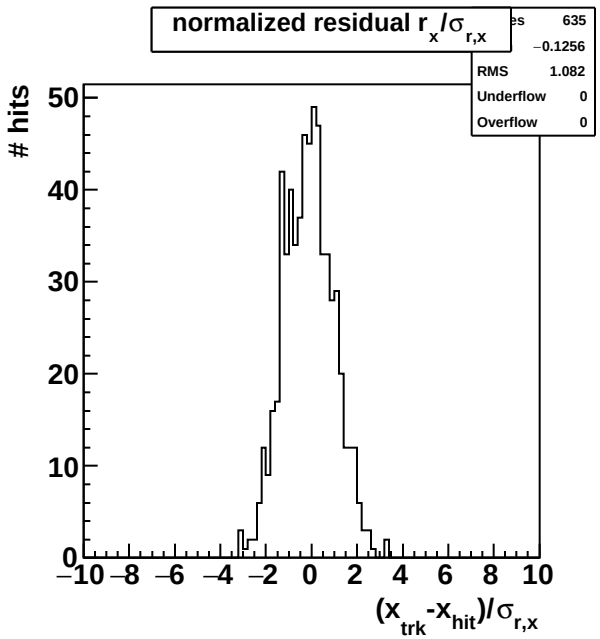
Sector_34/ -- TobLayer6In

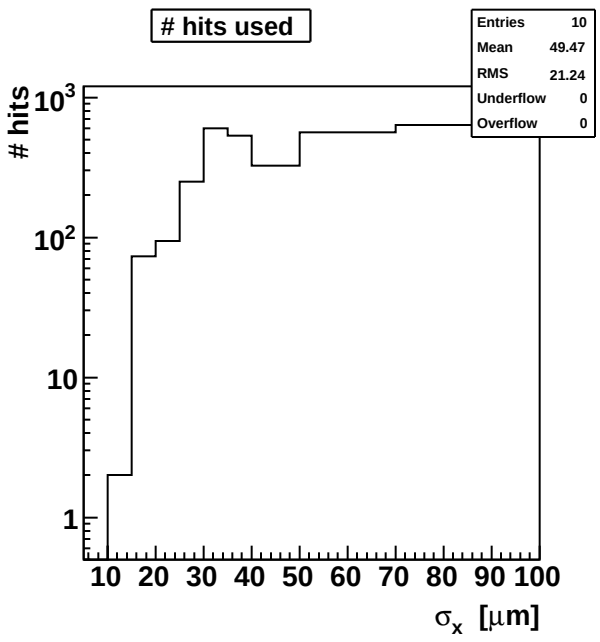

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
2
0.5741
RMS 1.093
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
73
−0.1773
RMS 1.047
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
94
−0.03551
RMS 1.091
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
251
−0.01976
RMS 1.129
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
600
−0.005352
RMS 1.058
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
532
0.07497
RMS 1.123
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

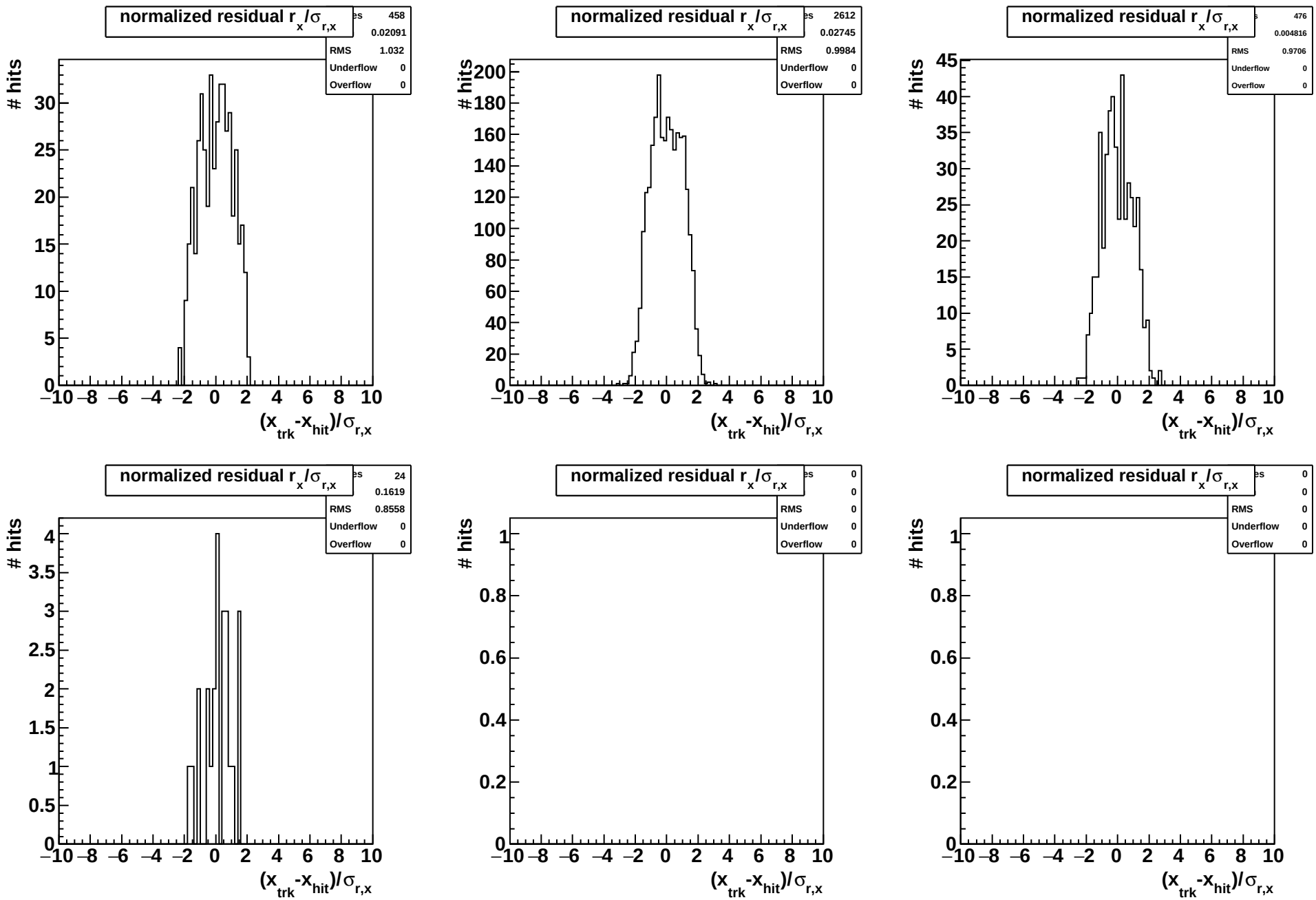

normalized residual $r_x/\sigma_{r,x}$
325
0.001083
RMS 1.12
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

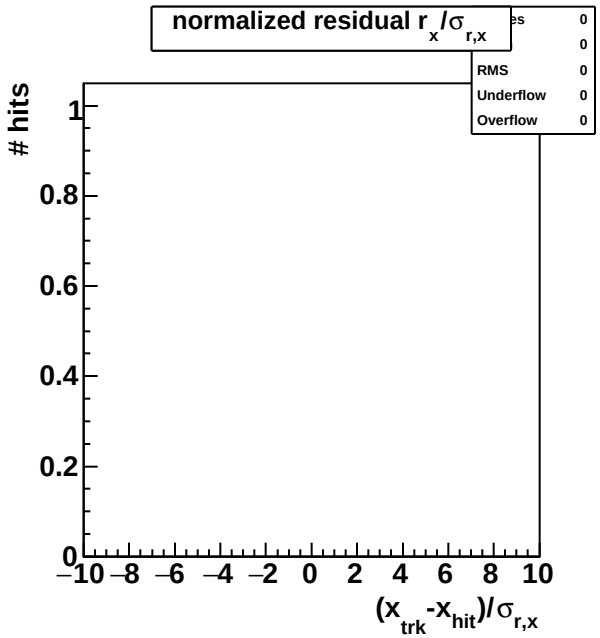

normalized residual $r_x/\sigma_{r,x}$
560
−0.01399
RMS 1.098
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

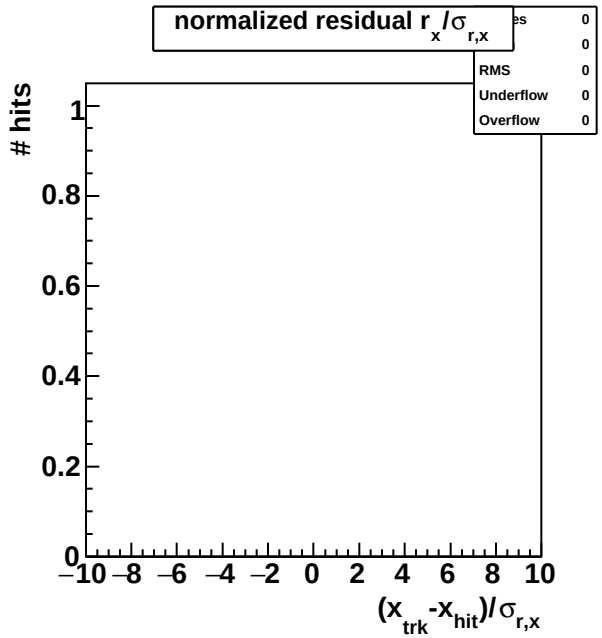

normalized residual $r_x/\sigma_{r,x}$
635
−0.1256
RMS 1.082
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

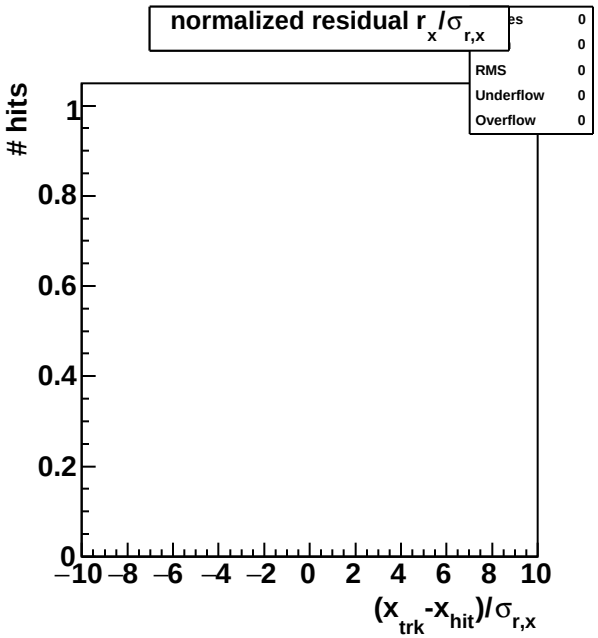

hits used
Entries 10
Mean 49.47
RMS 21.24
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

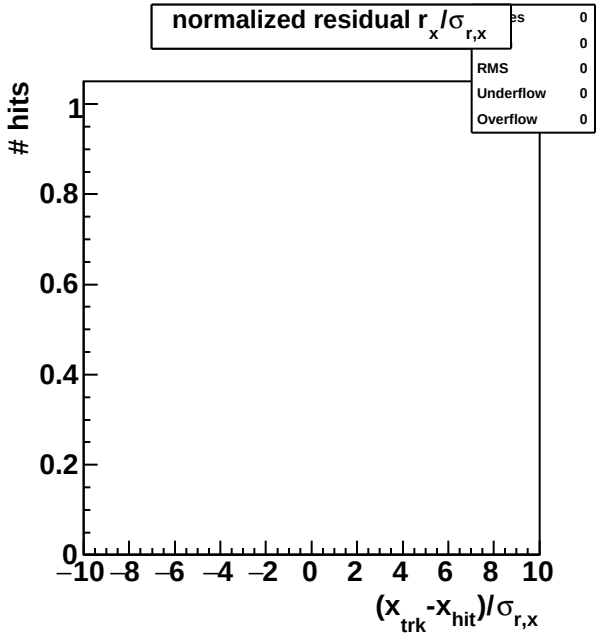
Sector_35/ -- TidMinusRing1Rphi

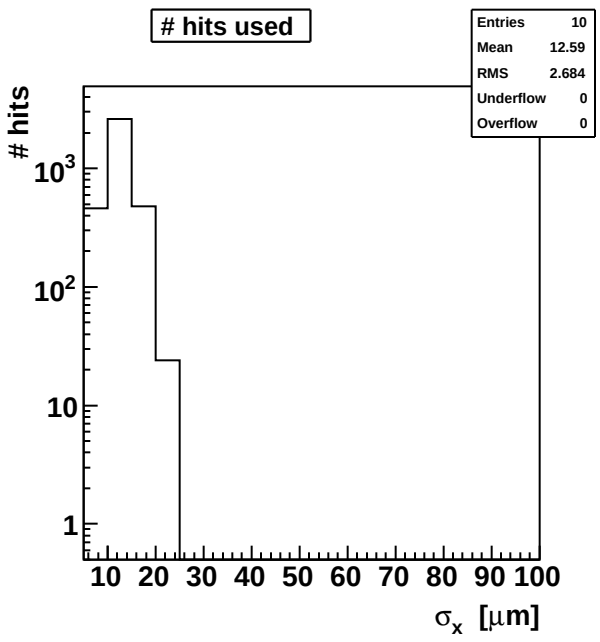

normalized residual $r_x/\sigma_{r,x}$
es 458
0.02091
RMS 1.032
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 2612
0.02745
RMS 0.9984
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
s 476
0.004816
RMS 0.9706
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 24
0.1619
RMS 0.8558
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

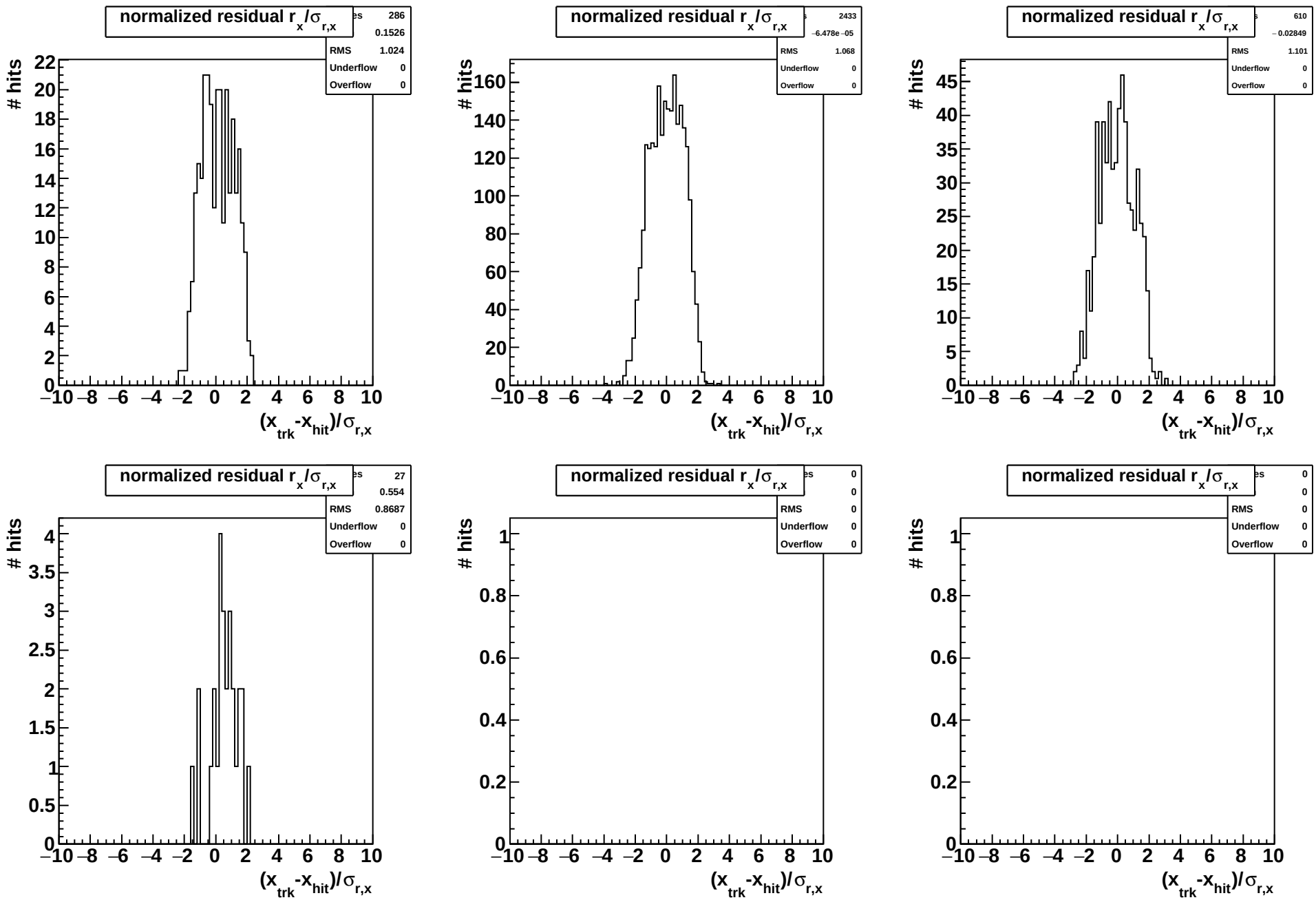

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

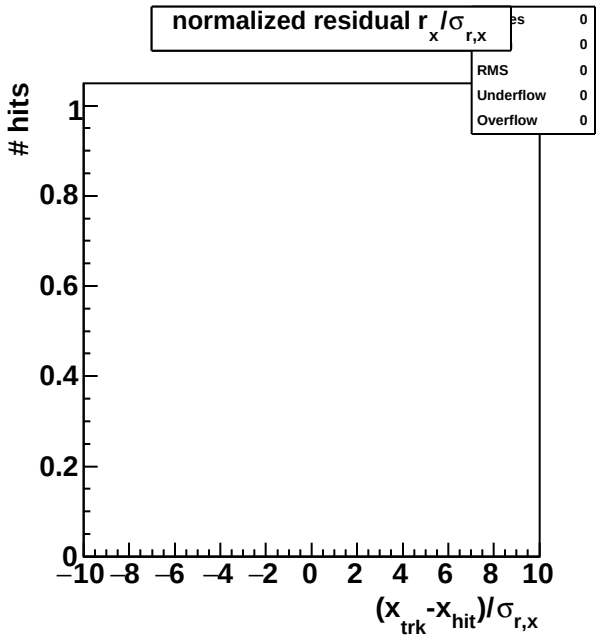

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

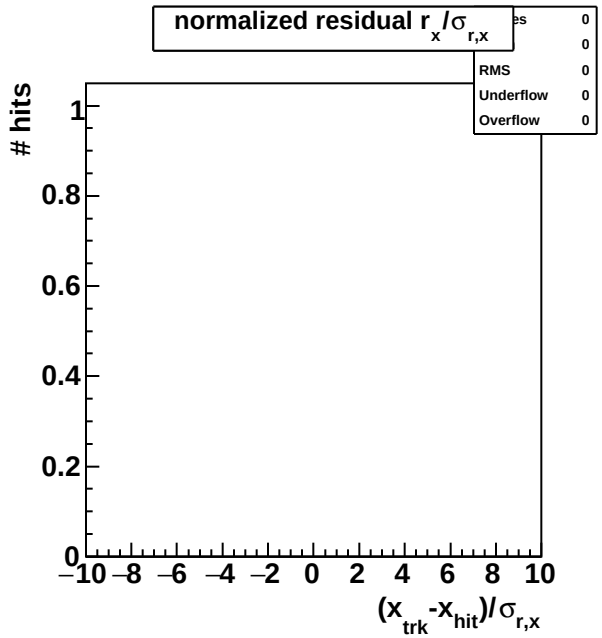

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

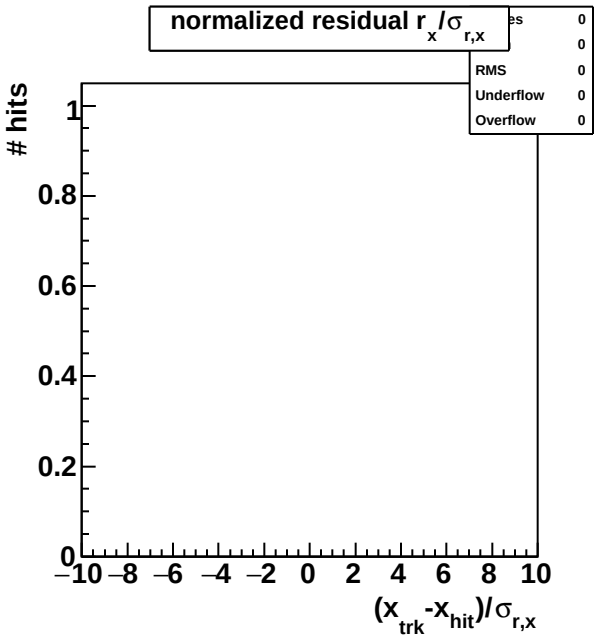

hits used
Entries 10
Mean 12.59
RMS 2.684
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

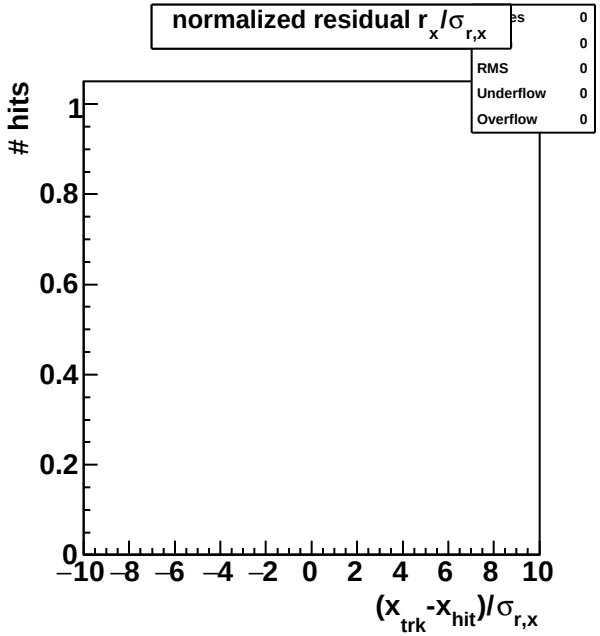
Sector_36/ -- TidMinusRing1Stereo

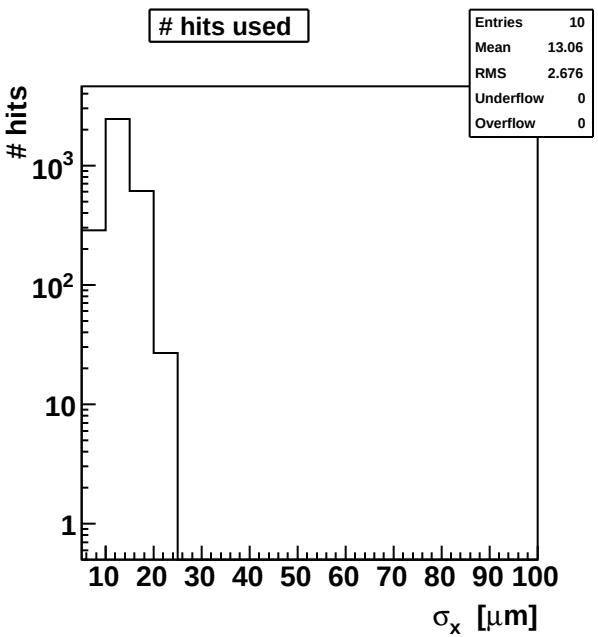

normalized residual $r_x/\sigma_{r,x}$
286
0.1526
RMS 1.024
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
2433
−6.478e−05
RMS 1.068
Underflow 0
Overflow 0
610
− 0.02849
RMS 1.101
Underflow 0
Overflow 0
27
0.554
RMS 0.8687
Underflow 0
Overflow 0
0
RMS 0
Underflow 0
Overflow 0


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

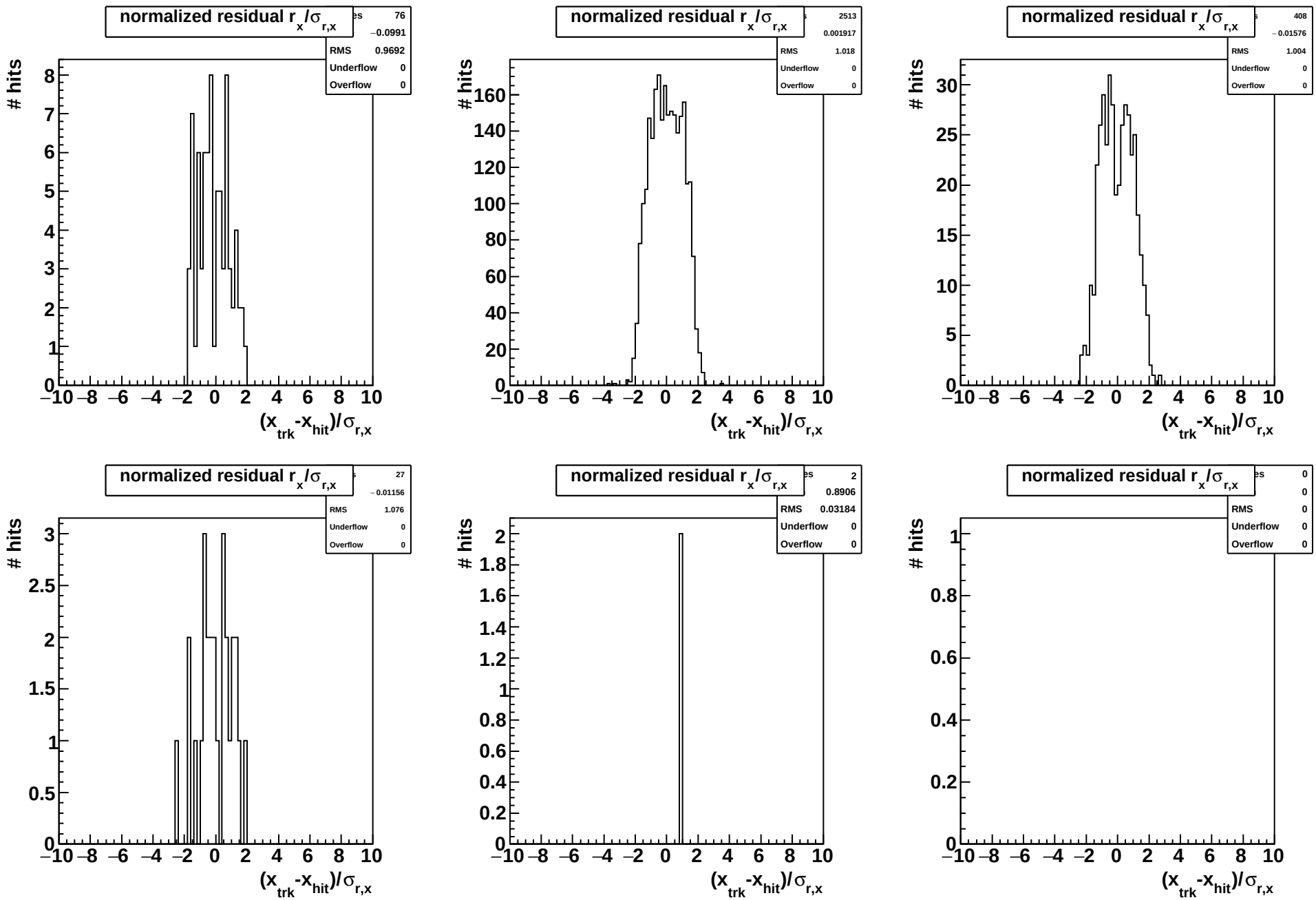

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

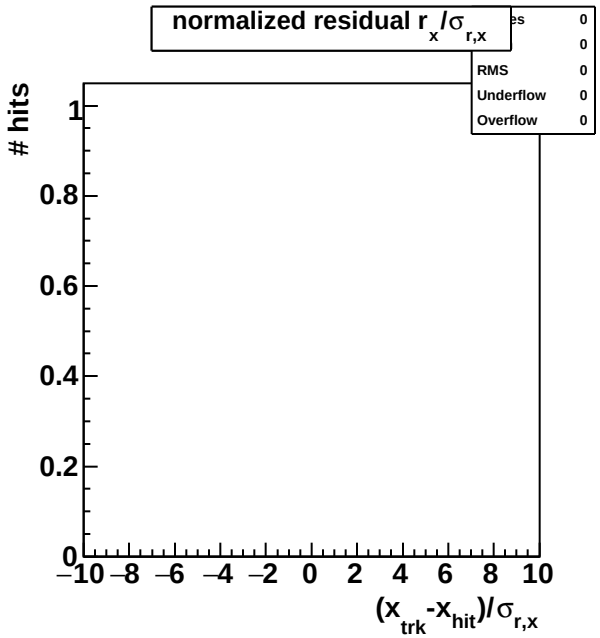

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

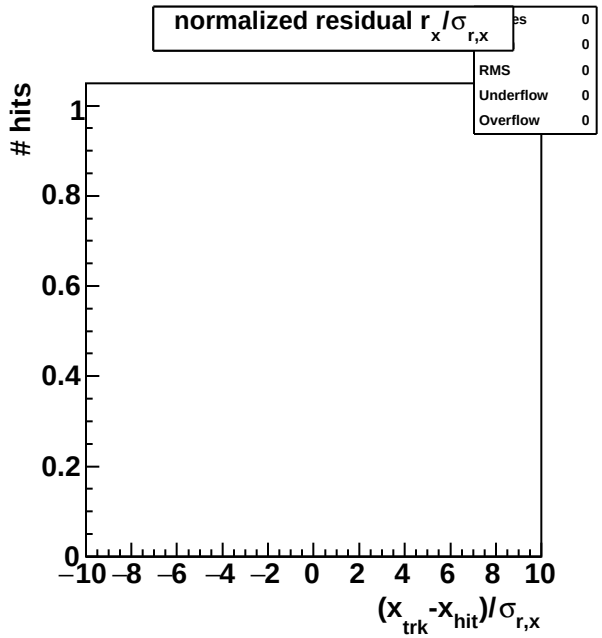

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

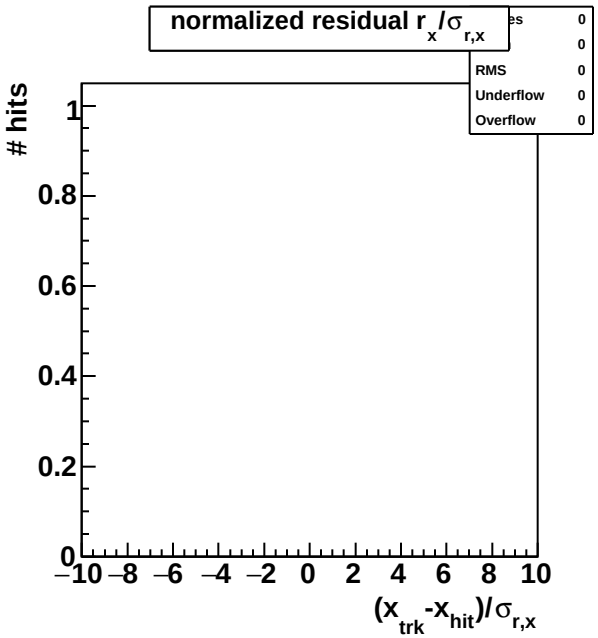

hits used
Entries 10
Mean 13.06
RMS 2.676
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

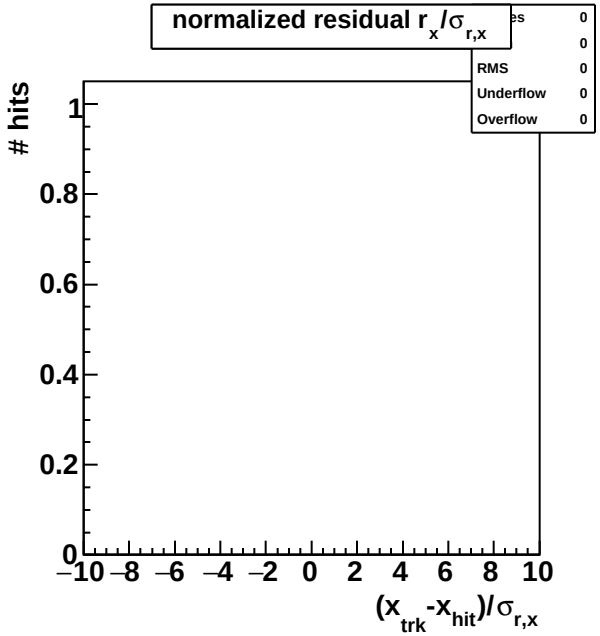
Sector_37/ -- TidMinusRing2Rphi

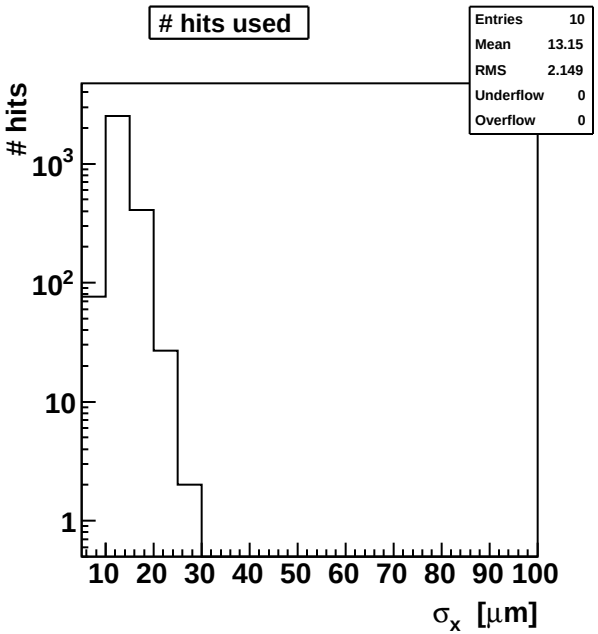

normalized residual $r_x/\sigma_{r,x}$
76
−0.0991
RMS 0.9692
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2513
0.001917
RMS 1.018
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
408
−0.01576
RMS 1.004
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
27
−0.01156
RMS 1.076
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2
0.8906
RMS 0.03184
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

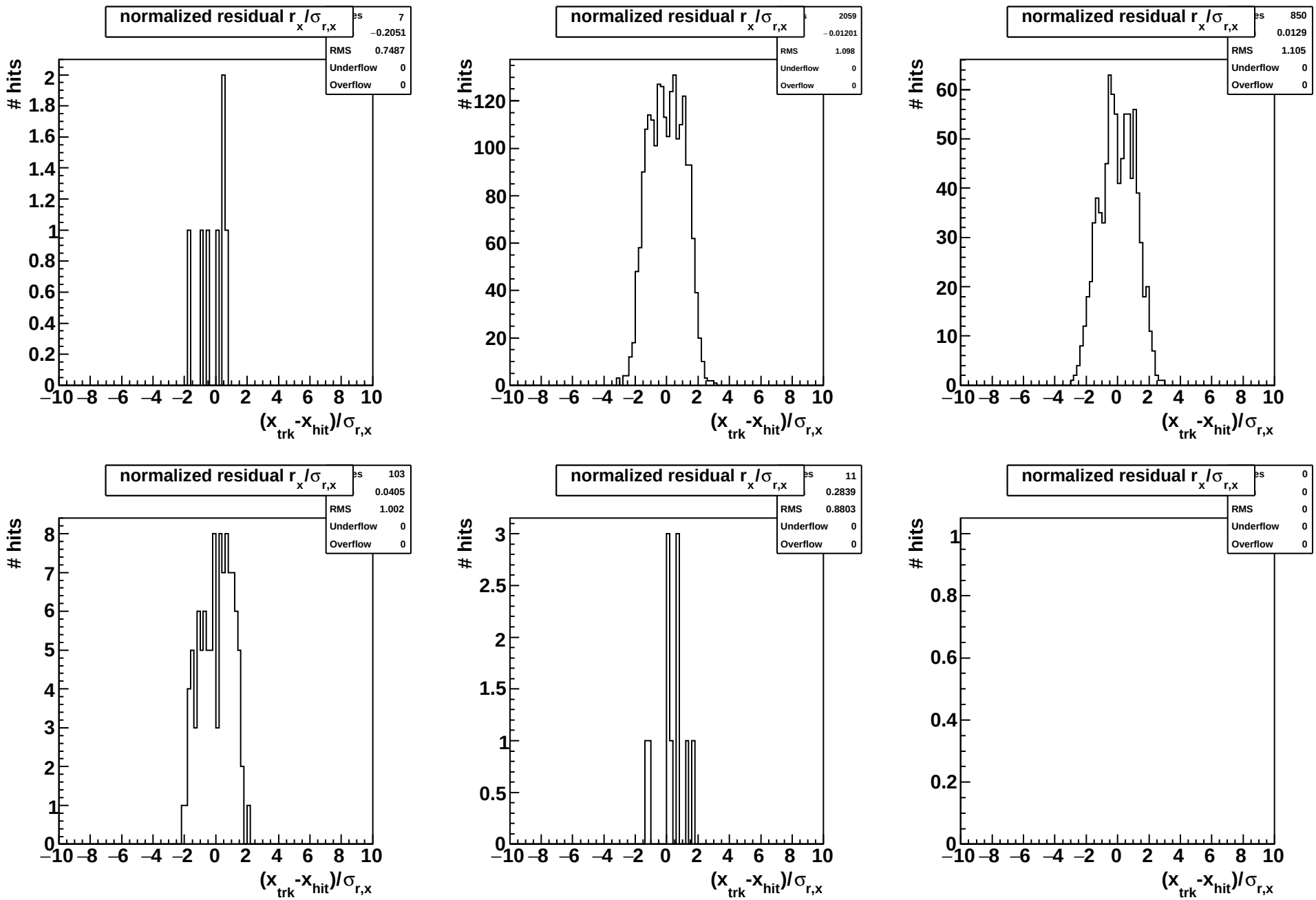

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

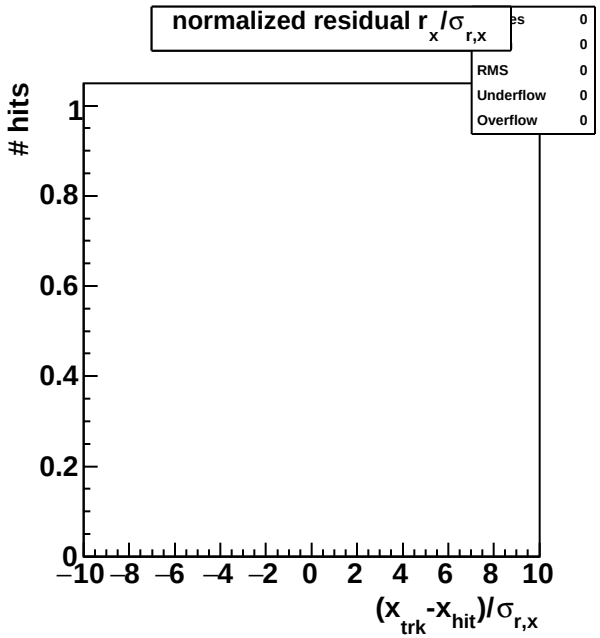

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

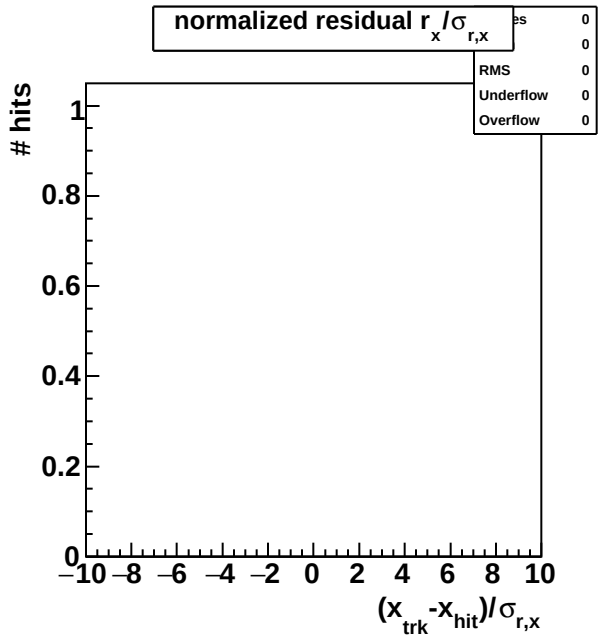

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

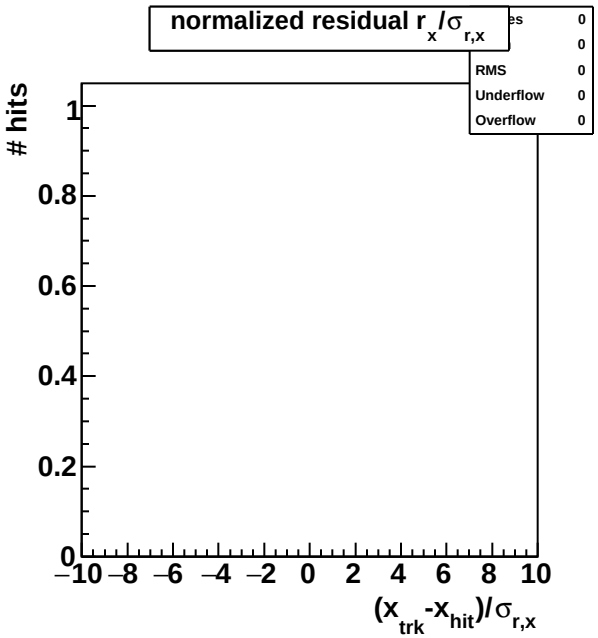

hits used
Entries 10
Mean 13.15
RMS 2.149
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

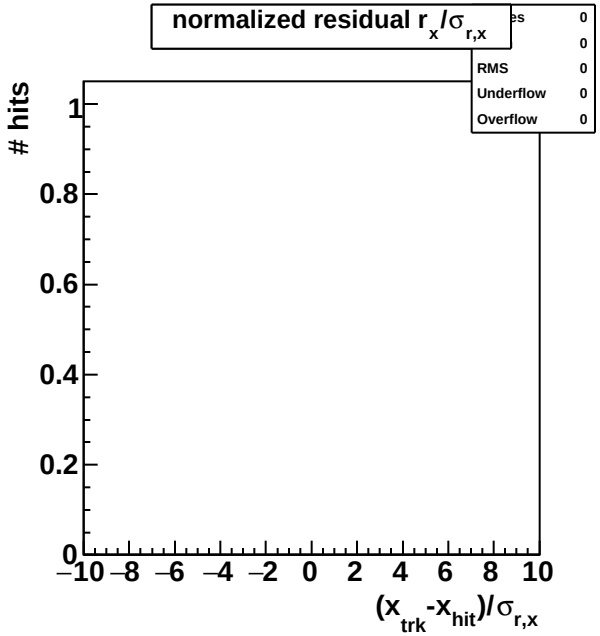
Sector_38/ -- TidMinusRing2Stereo

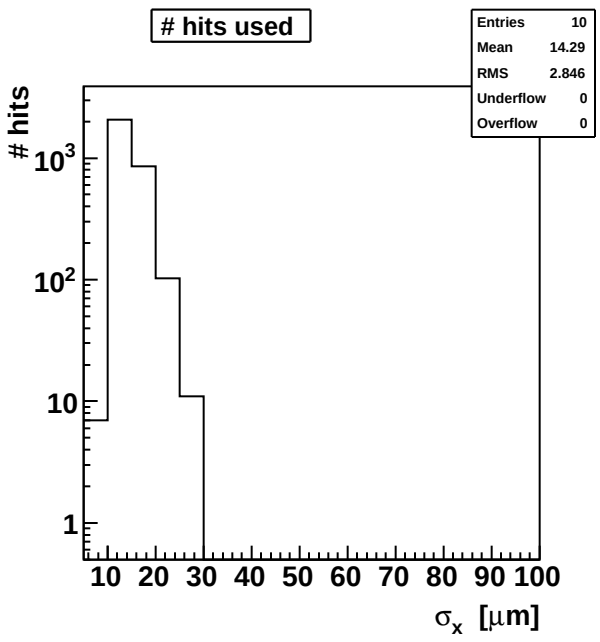

normalized residual $r_x/\sigma_{r,x}$
7
−0.2051
RMS 0.7487
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2059
−0.01201
RMS 1.098
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
850
0.0129
RMS 1.105
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
103
0.0405
RMS 1.002
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
11
0.2839
RMS 0.8803
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

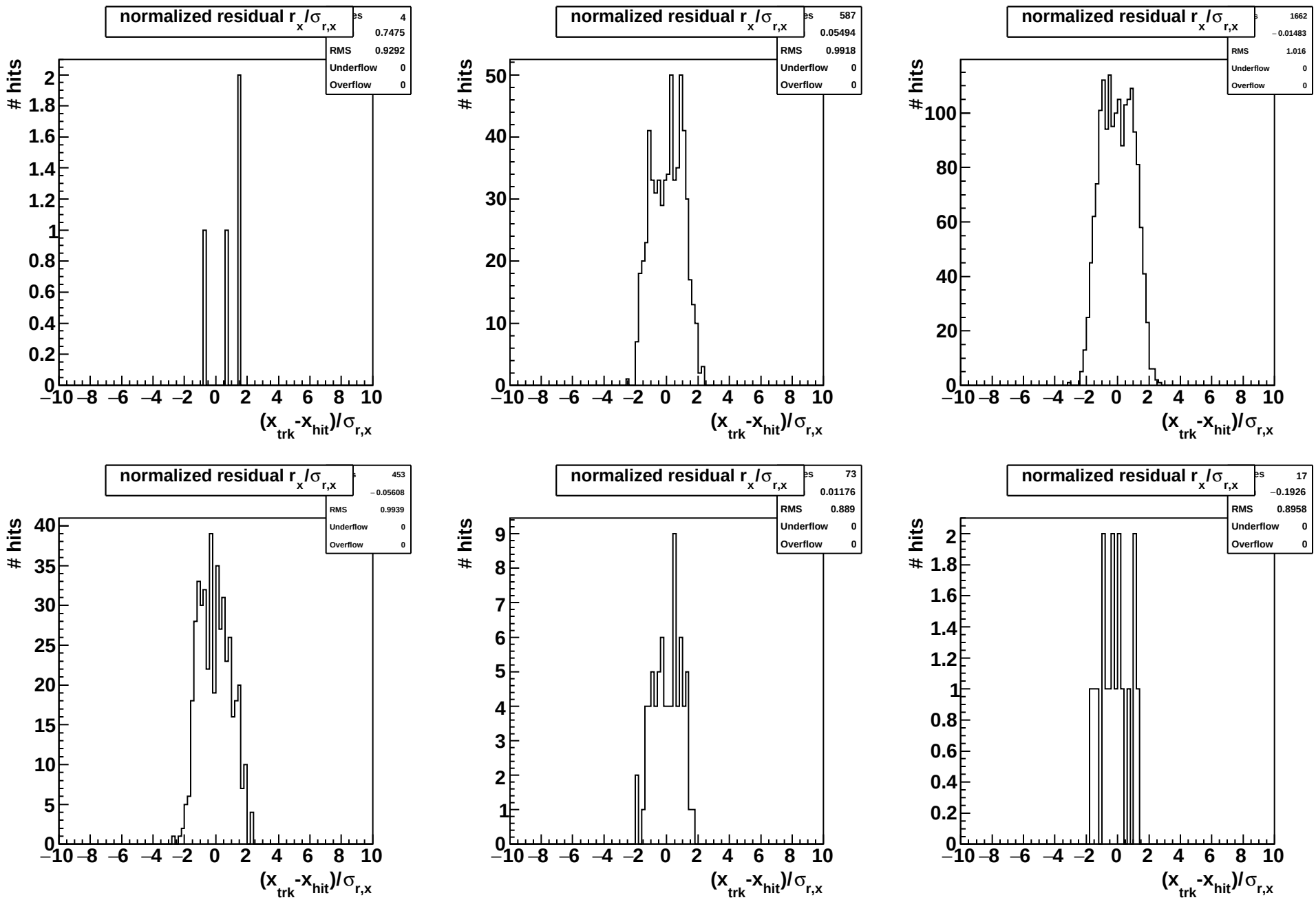

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

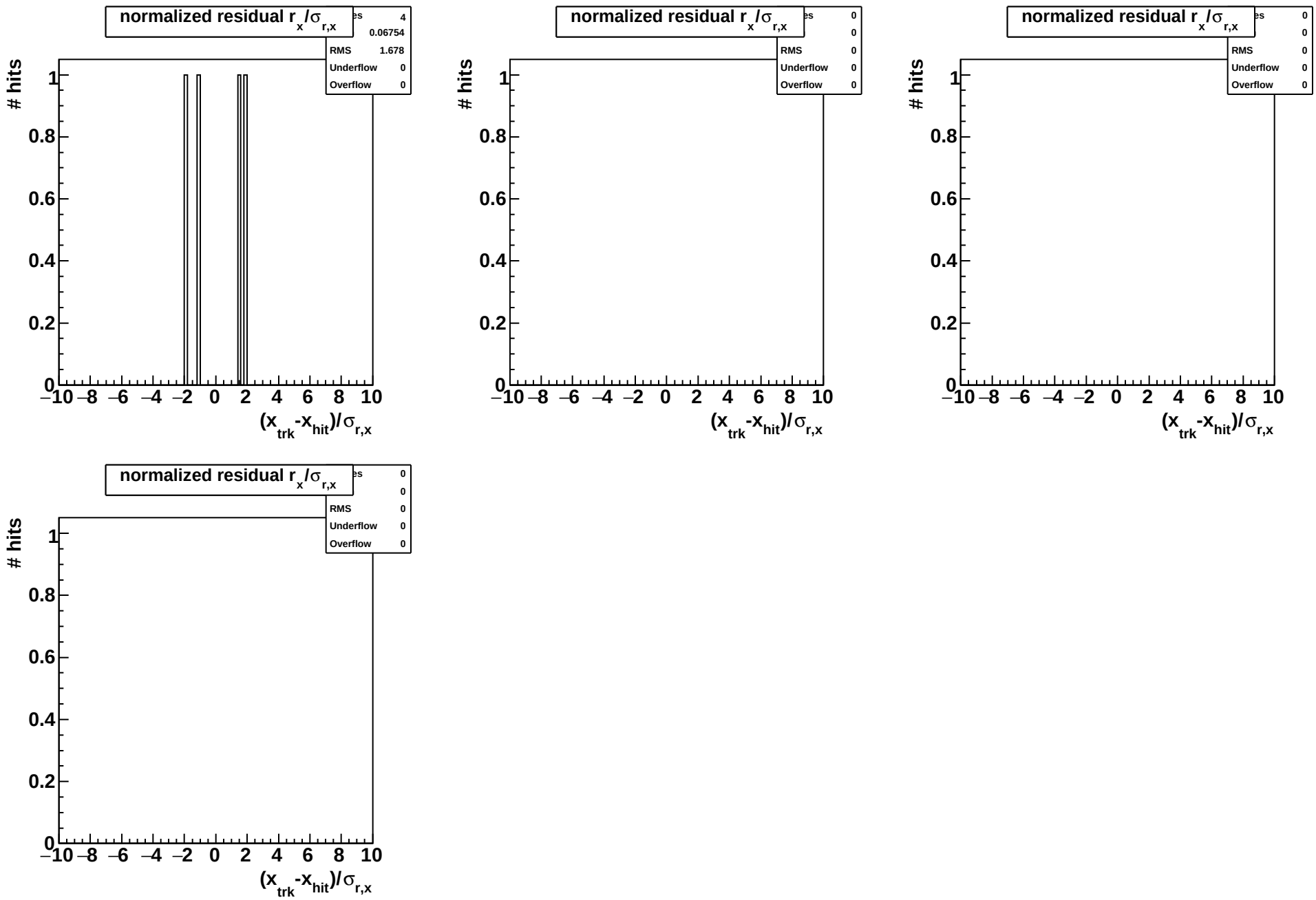

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

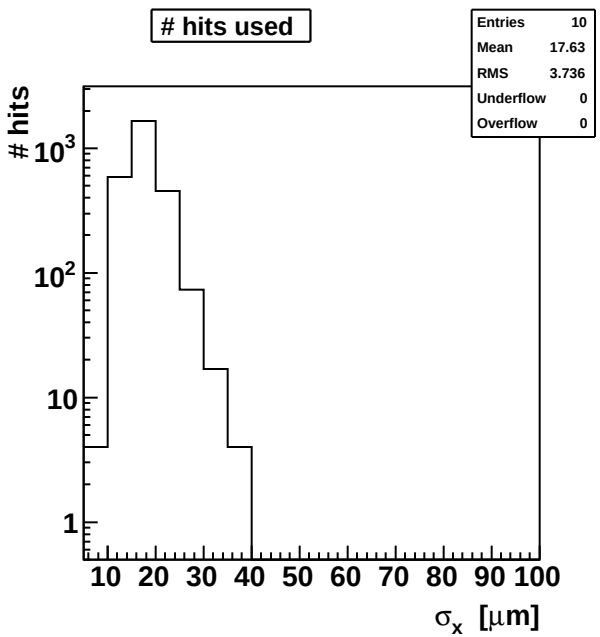

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 14.29
RMS 2.846
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

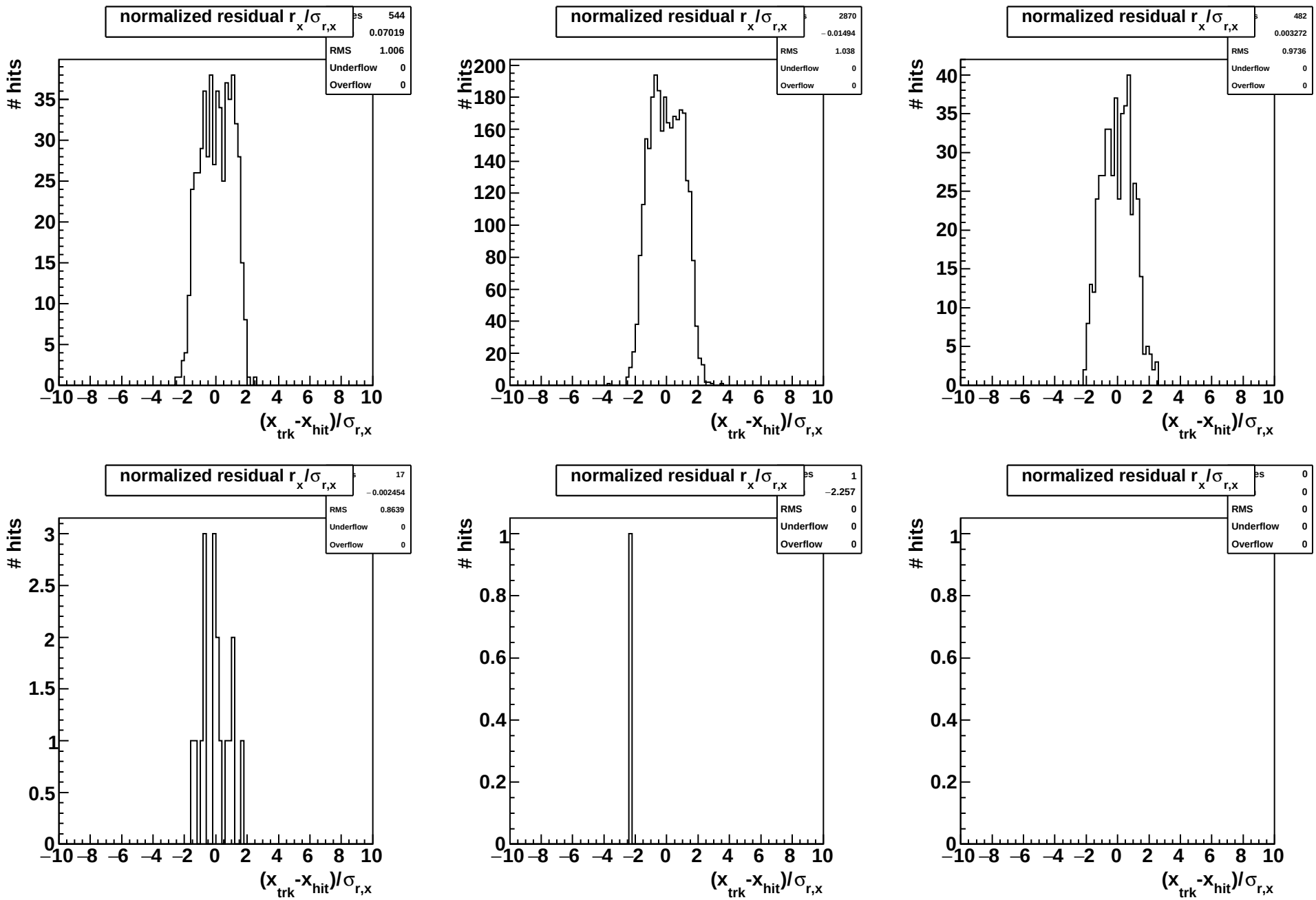
Sector_39/ -- TidMinusRing3

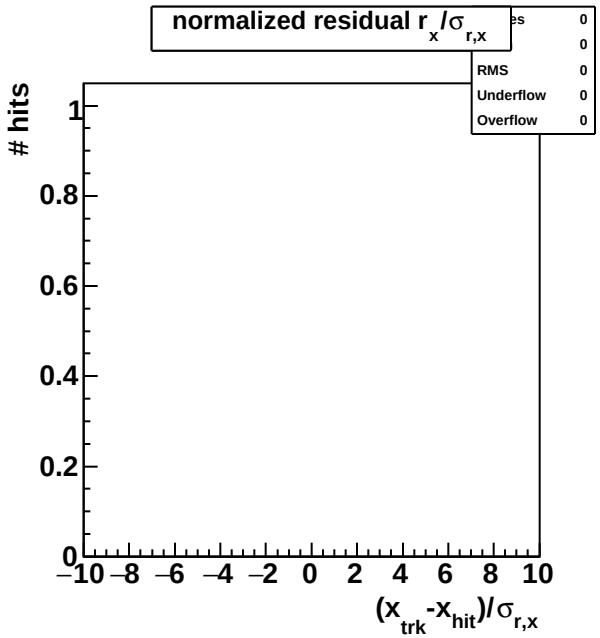

normalized residual $r_x/\sigma_{r,x}$
4
0.7475
RMS 0.9292
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
587
0.05494
RMS 0.9918
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1662
−0.01483
RMS 1.016
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
453
−0.05608
RMS 0.9939
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
73
0.01176
RMS 0.889
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
17
−0.1926
RMS 0.8958
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

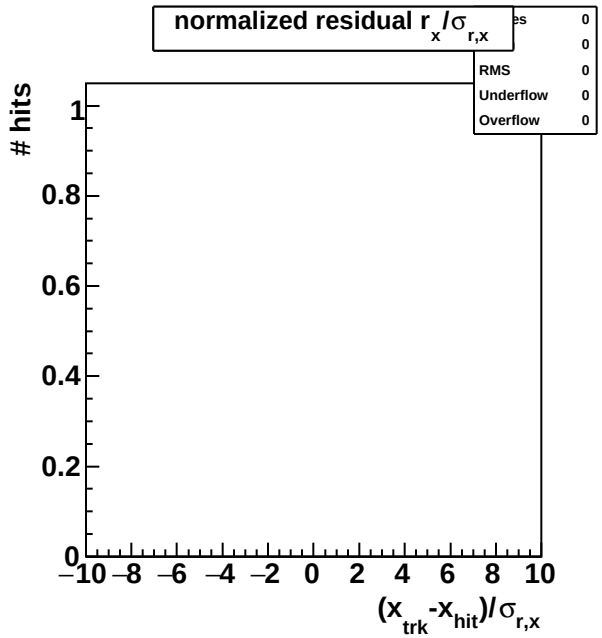

normalized residual $r_x/\sigma_{r,x}$
es 4
0.06754
RMS 1.678
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

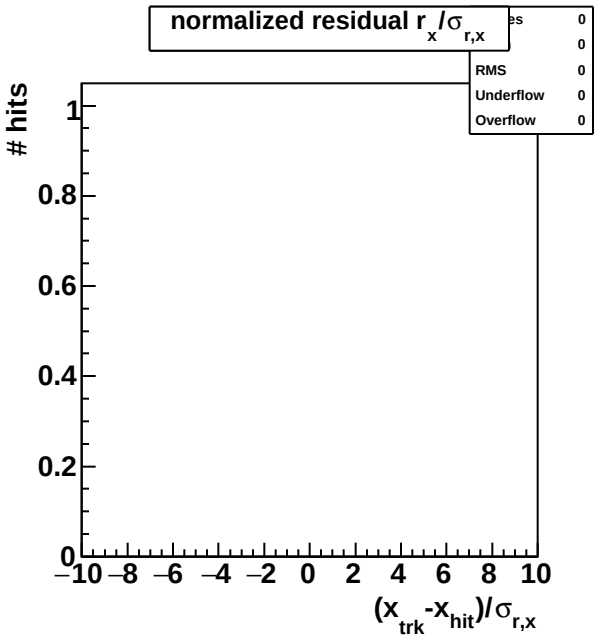

hits used
Entries 10
Mean 17.63
RMS 3.736
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

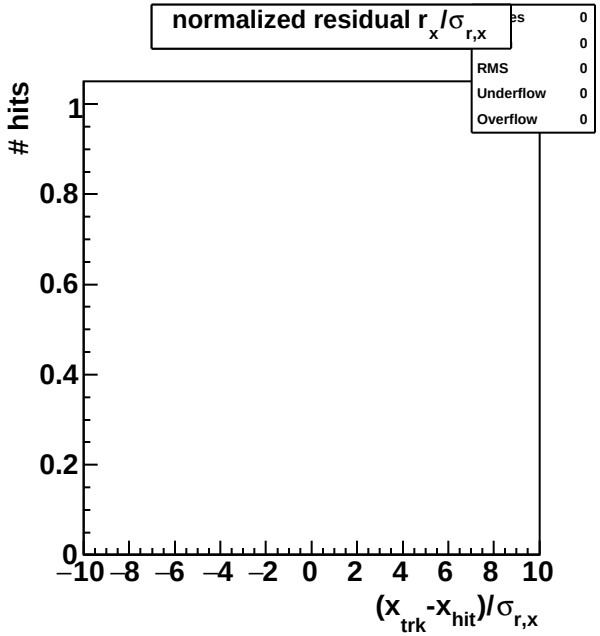
Sector_40/ -- TidPlusRing1Rphi

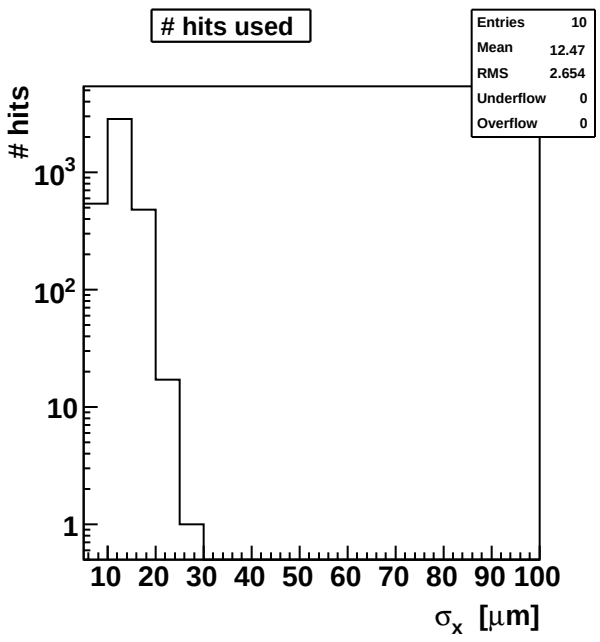

normalized residual $r_x/\sigma_{r,x}$
544
0.07019
RMS 1.006
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2870
−0.01494
RMS 1.038
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
482
0.003272
RMS 0.9736
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
17
−0.002454
RMS 0.8639
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1
−2.257
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

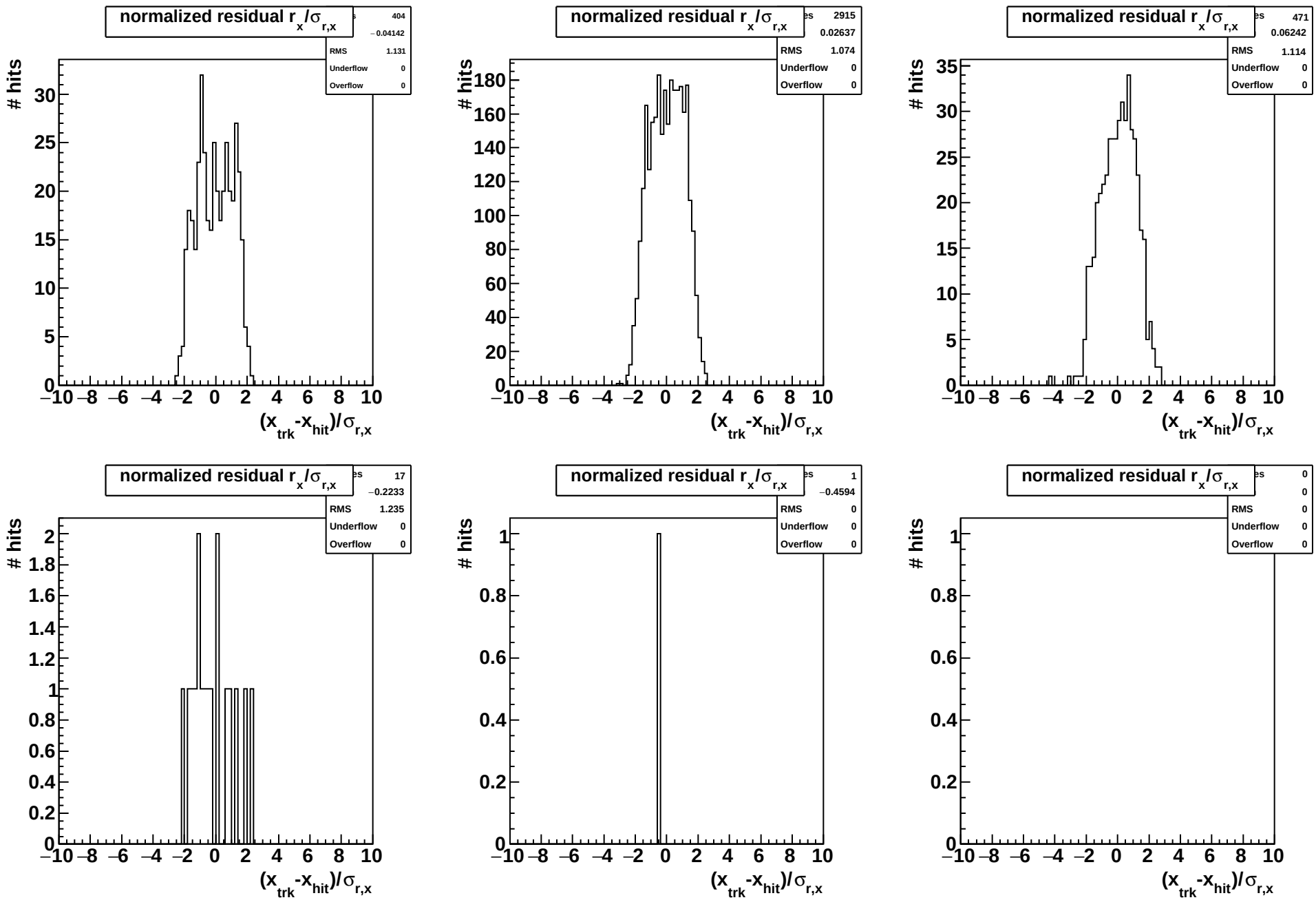

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

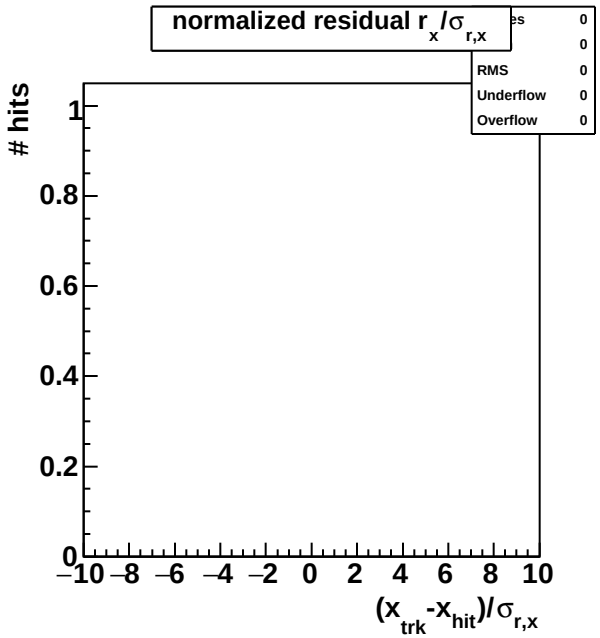

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

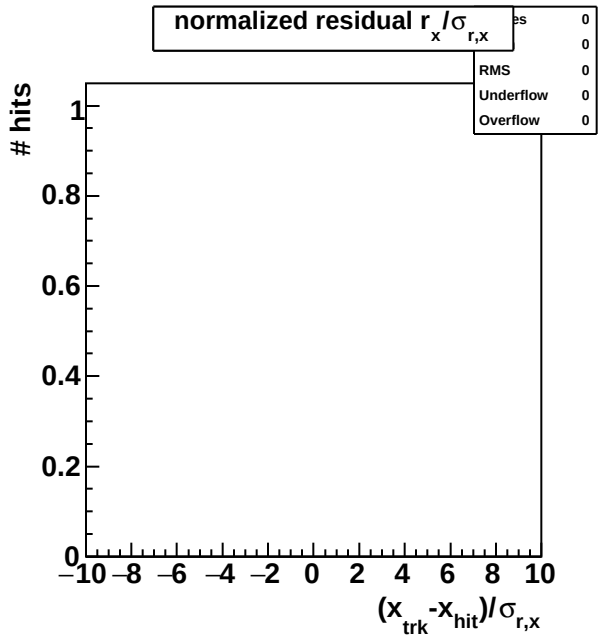

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

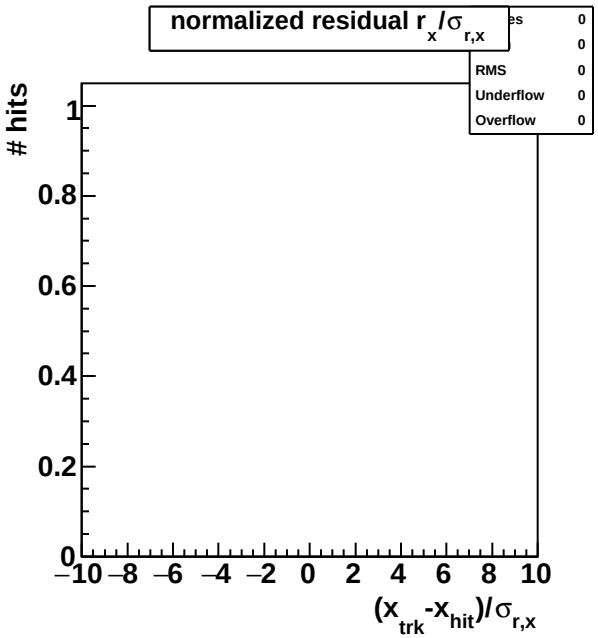

hits used
Entries 10
Mean 12.47
RMS 2.654
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

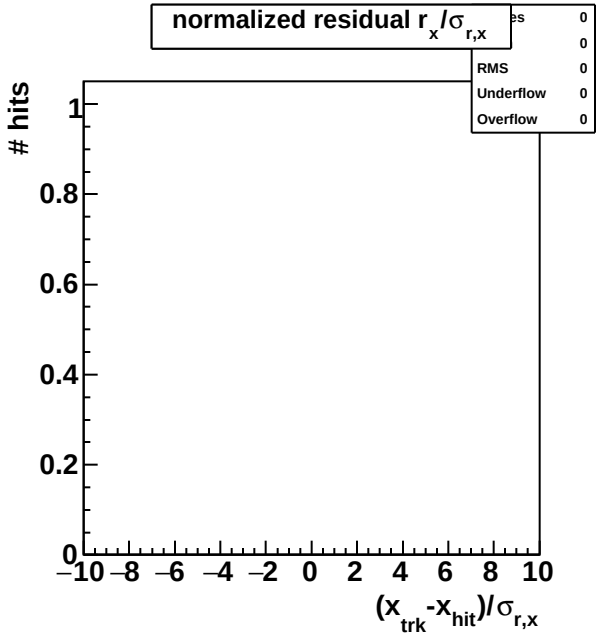
Sector_41/ -- TidPlusRing1Stereo

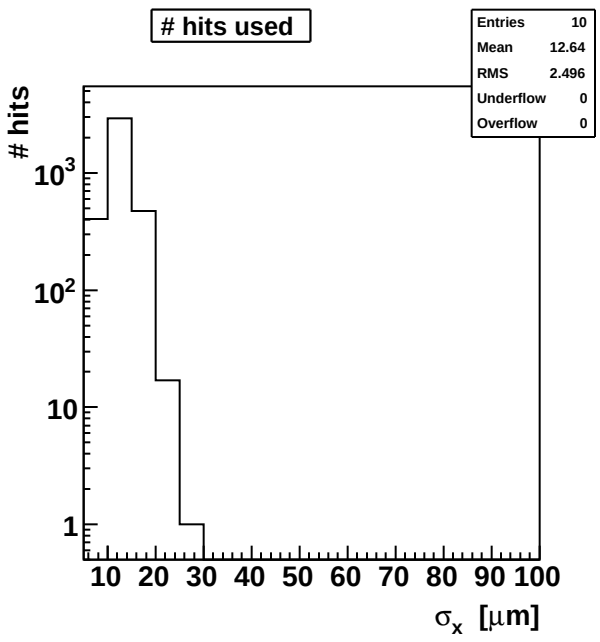

normalized residual $r_x/\sigma_{r,x}$
404
−0.04142
RMS 1.131
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2915
0.02637
RMS 1.074
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
471
0.06242
RMS 1.114
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
17
−0.2233
RMS 1.235
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1
−0.4594
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

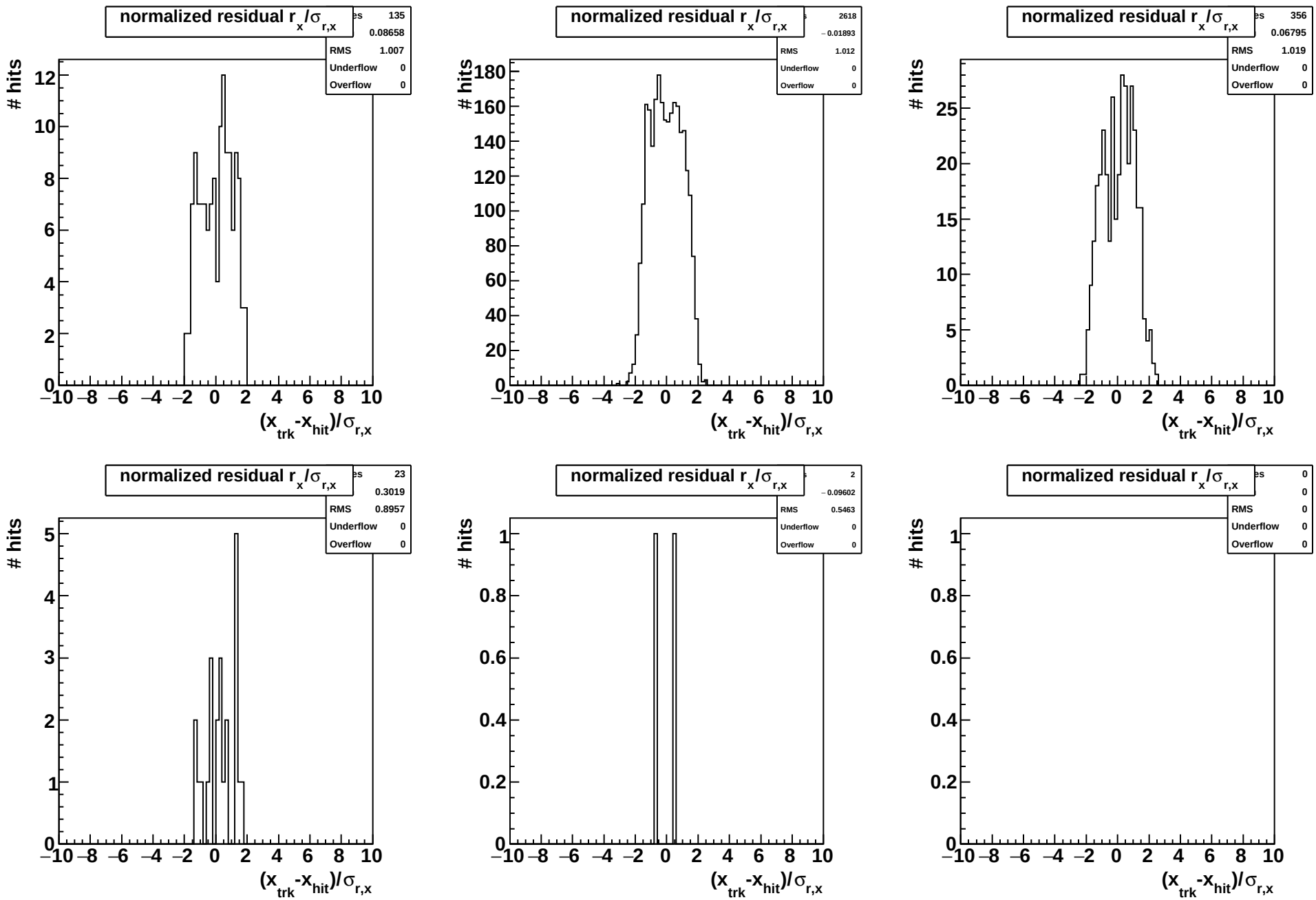

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

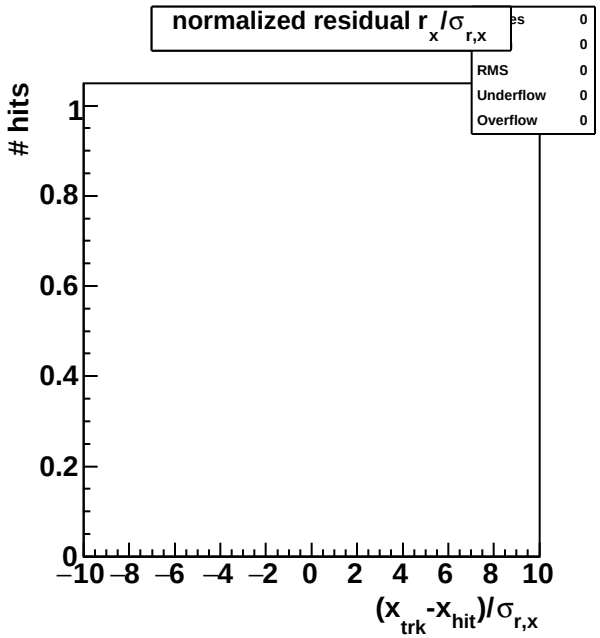

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

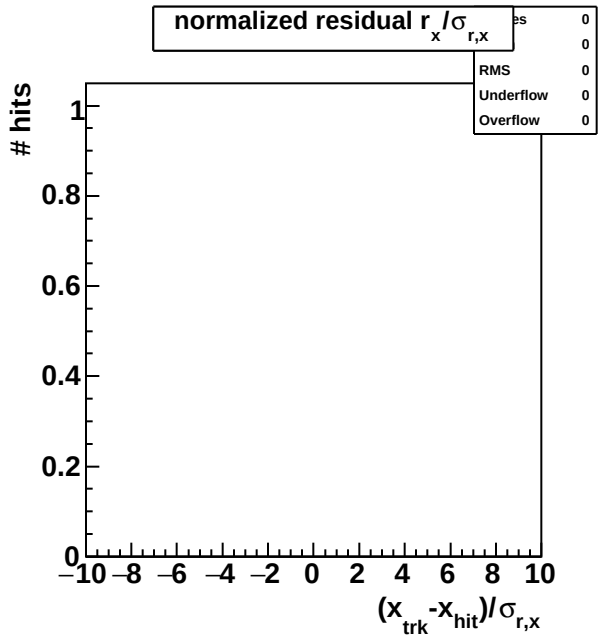

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

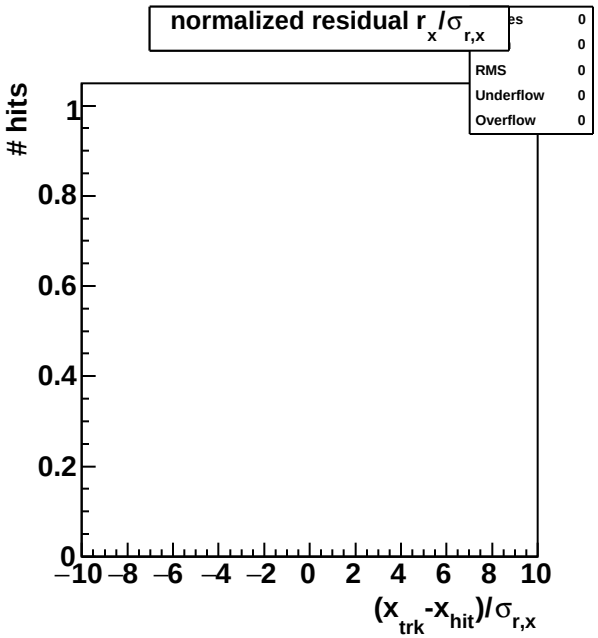

hits used
Entries 10
Mean 12.64
RMS 2.496
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σx [μm]

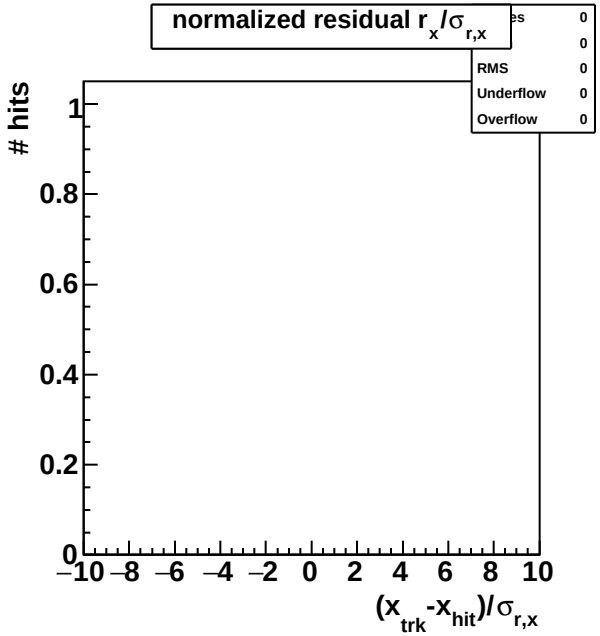
Sector_42/ -- TidPlusRing2Rphi

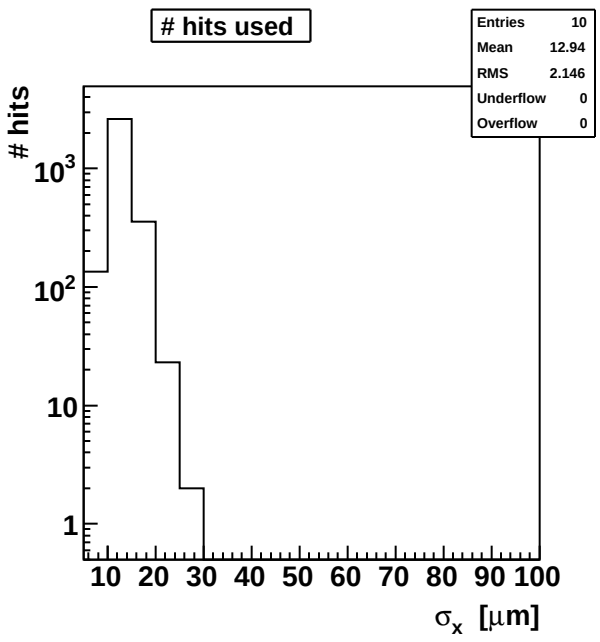

normalized residual $r_x/\sigma_{r,x}$
135
0.08658
RMS 1.007
Underflow 0
Overflow 0
2618
−0.01893
RMS 1.012
Underflow 0
Overflow 0
356
0.06795
RMS 1.019
Underflow 0
Overflow 0
23
0.3019
RMS 0.8957
Underflow 0
Overflow 0
2
−0.09602
RMS 0.5463
Underflow 0
Overflow 0
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

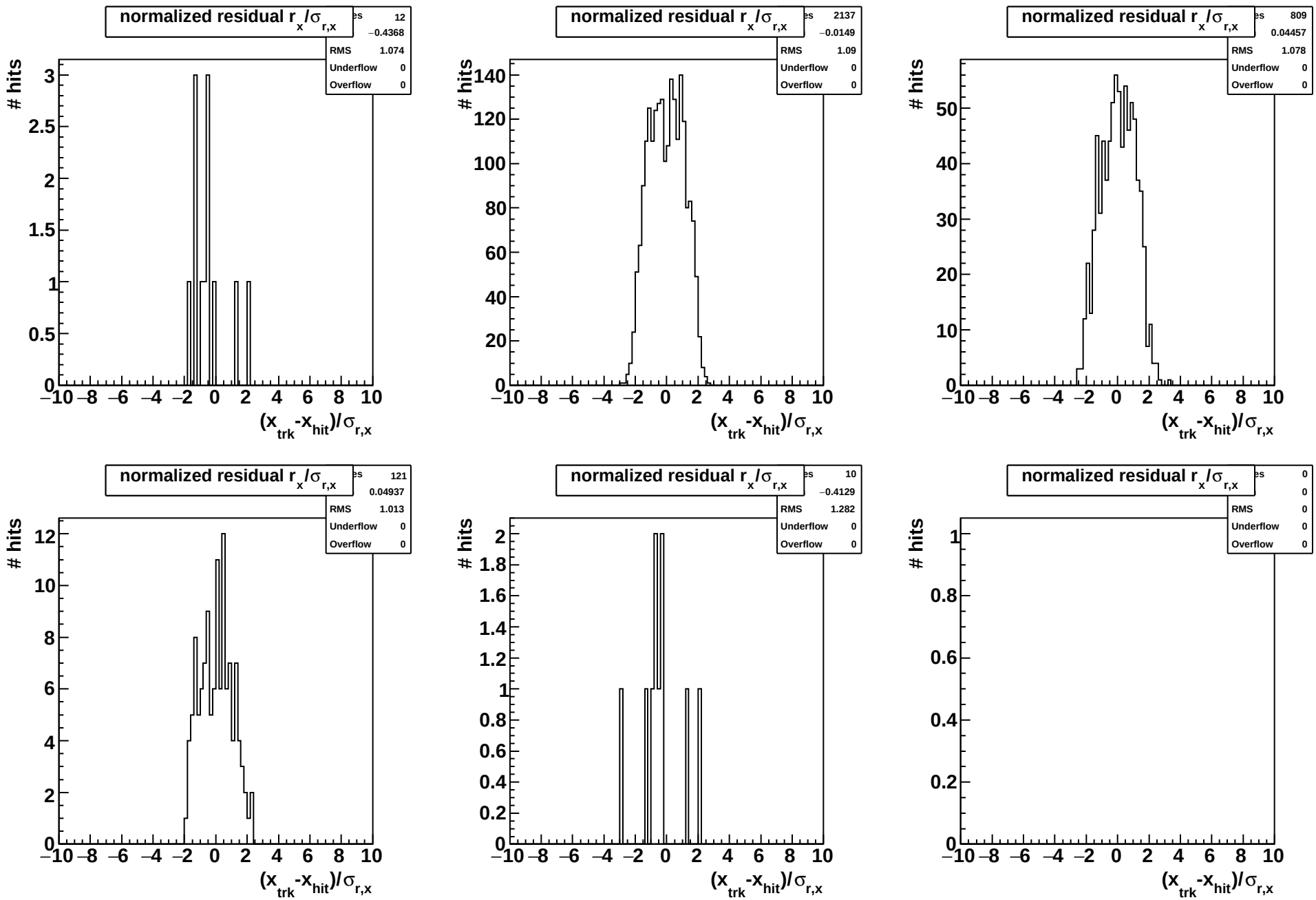

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

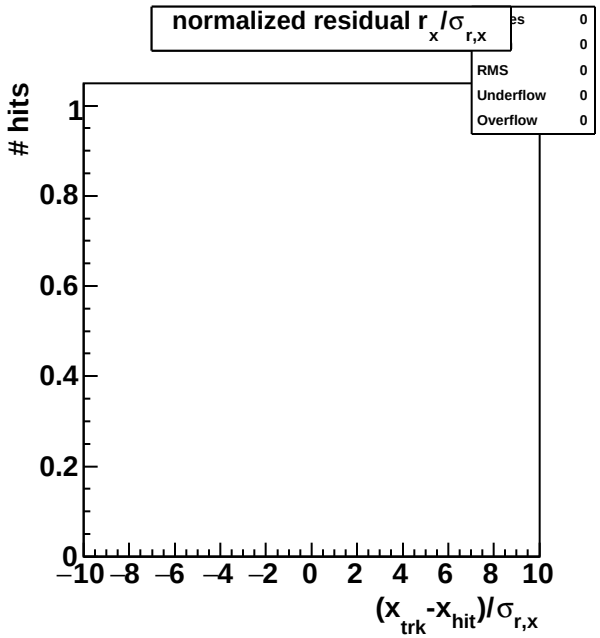

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

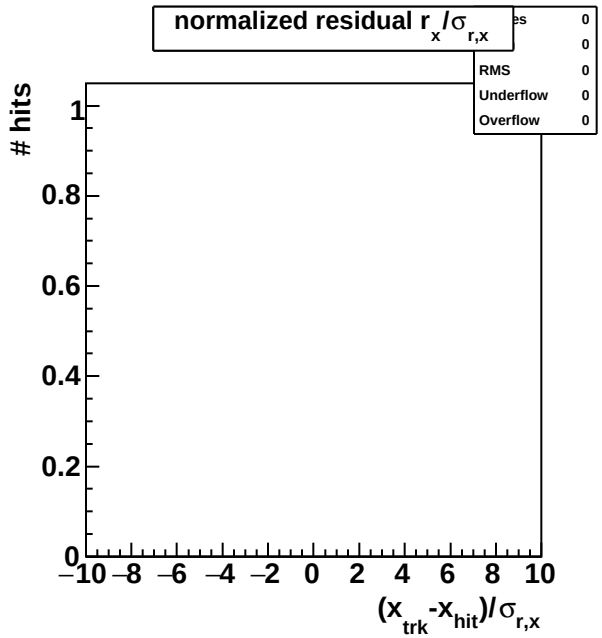

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

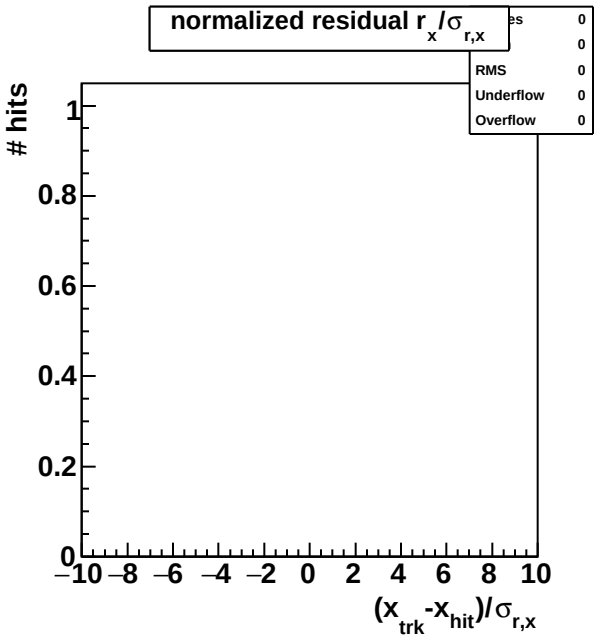

hits used
Entries 10
Mean 12.94
RMS 2.146
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

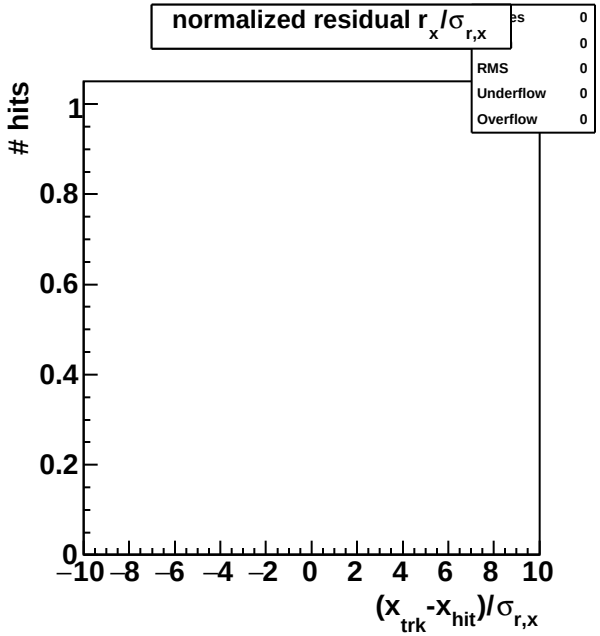
Sector_43/ -- TidPlusRing2Stereo

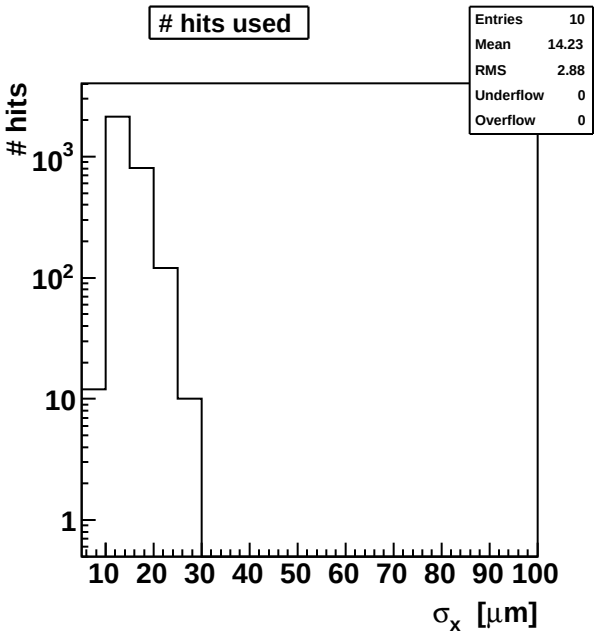

normalized residual r_x/σ_r,x
12
−0.4368
RMS 1.074
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
2137
−0.0149
RMS 1.09
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
809
0.04457
RMS 1.078
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
121
0.04937
RMS 1.013
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
10
−0.4129
RMS 1.282
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
0
0
RMS 0
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

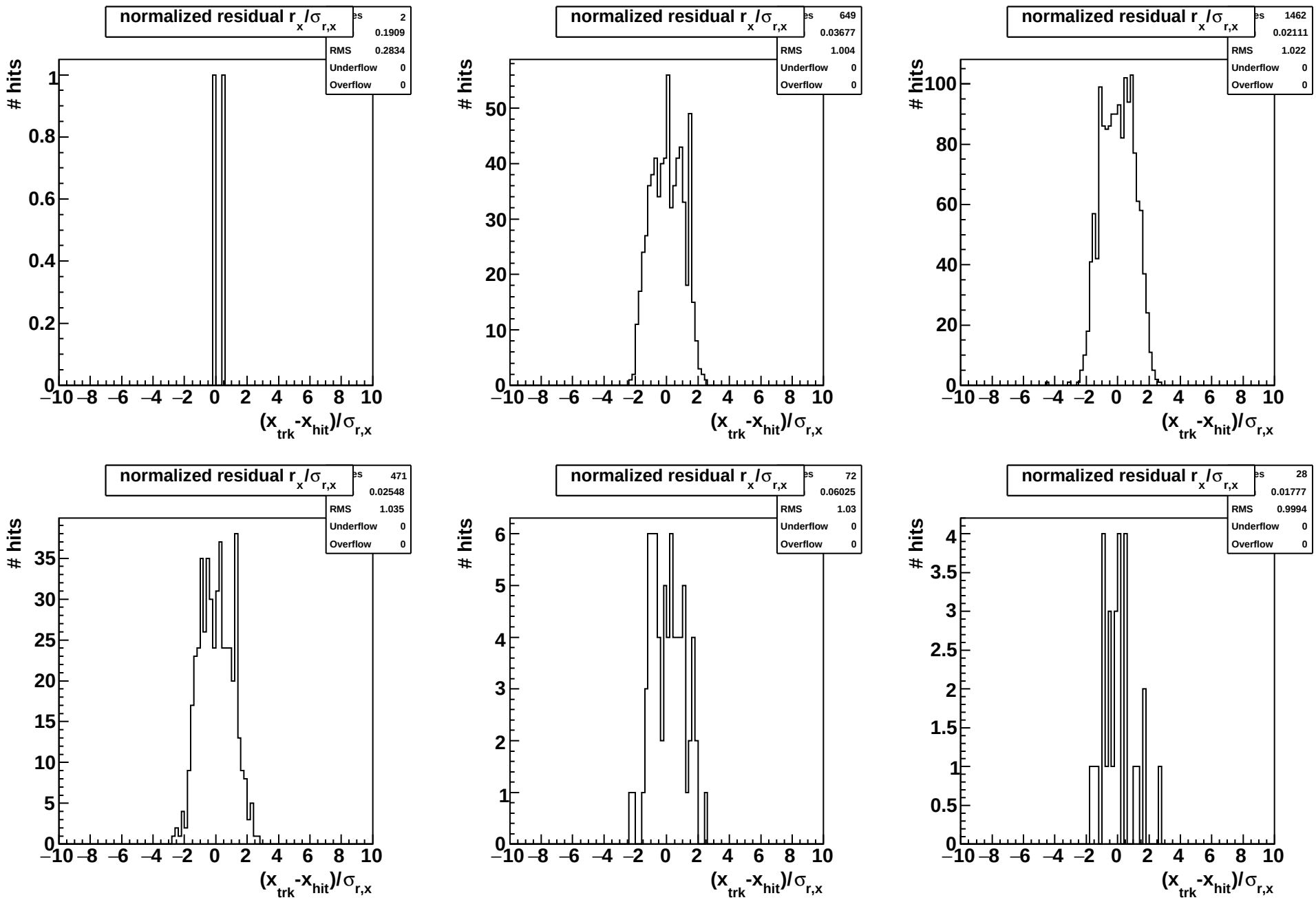

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

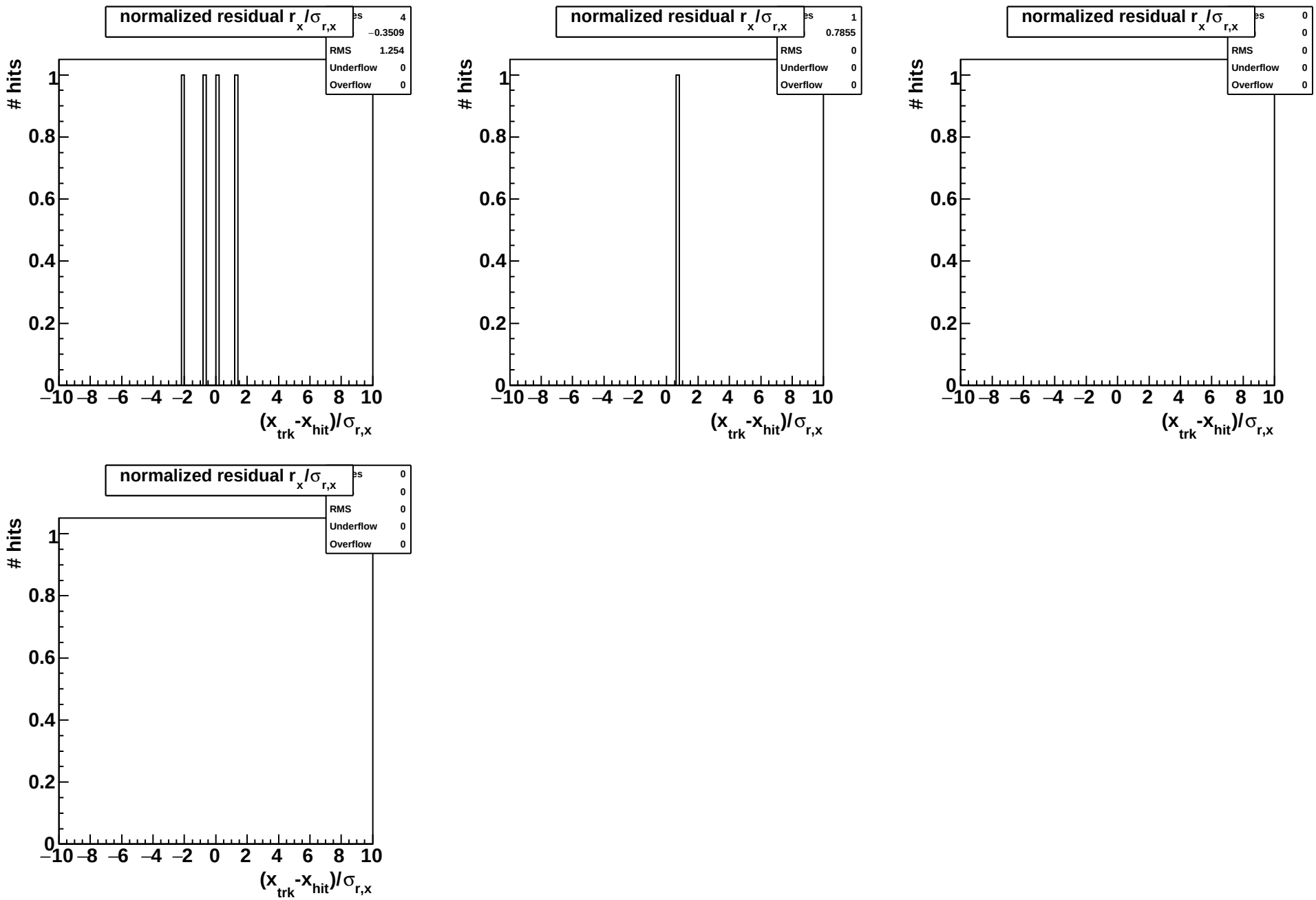

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

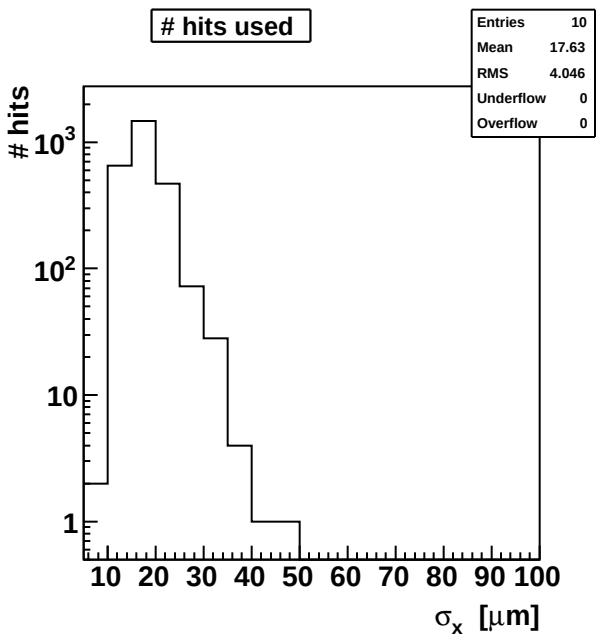

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 14.23
RMS 2.88
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

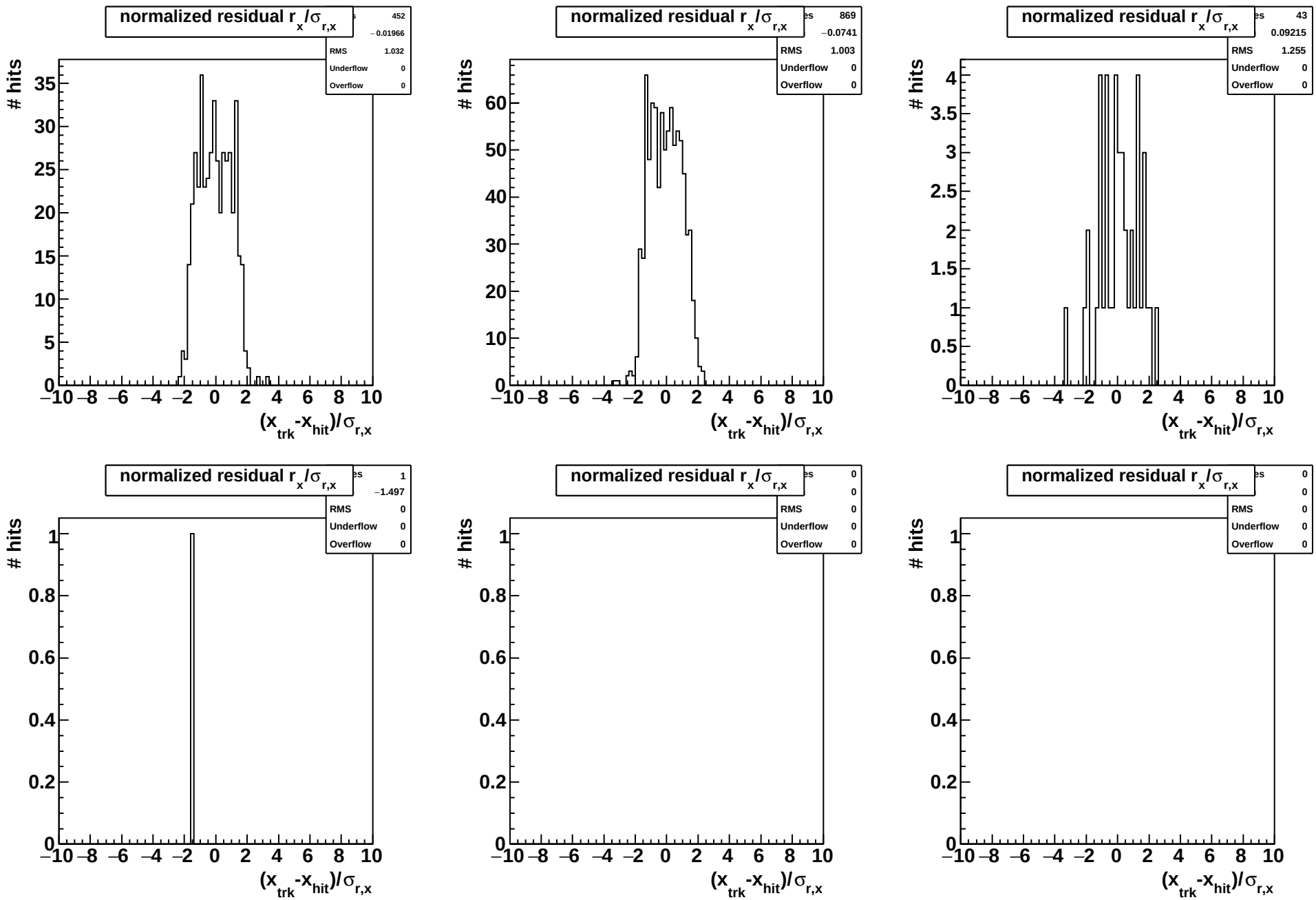
Sector_44/ -- TidPlusRing3

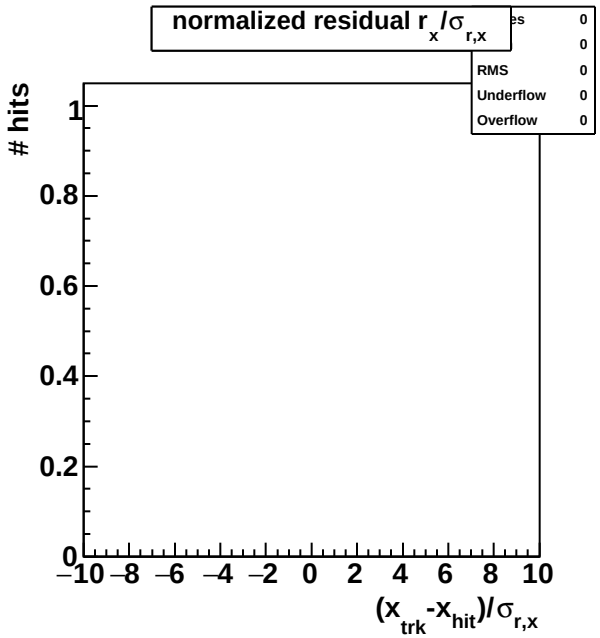

normalized residual $r_x/\sigma_{r,x}$
es 2
0.1909
RMS 0.2834
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 649
0.03677
RMS 1.004
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 1462
0.02111
RMS 1.022
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 471
0.02548
RMS 1.035
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 72
0.06025
RMS 1.03
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 28
0.01777
RMS 0.9994
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

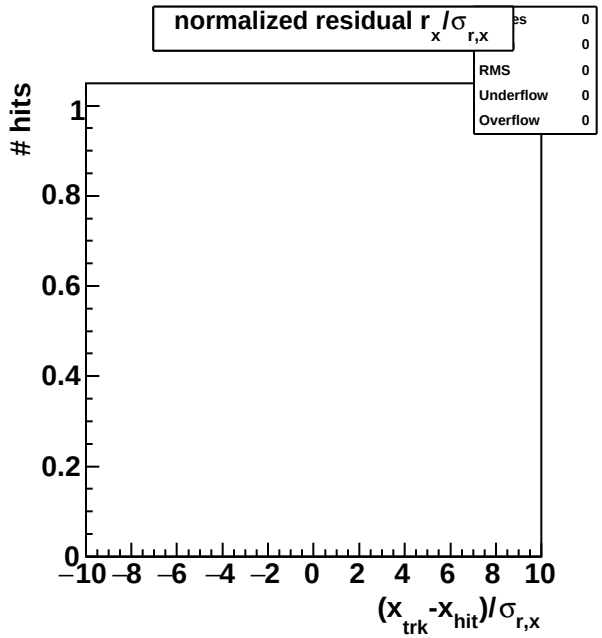

normalized residual $r_x/\sigma_{r,x}$
es 4
−0.3509
RMS 1.254
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 1
0.7855
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

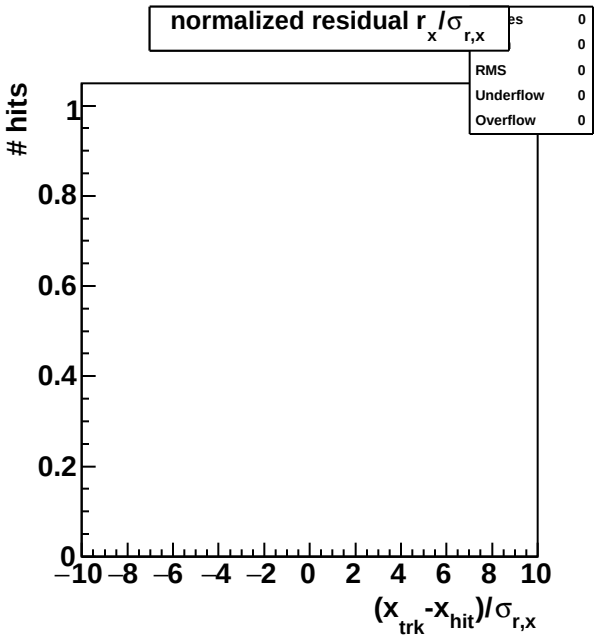

hits used
Entries 10
Mean 17.63
RMS 4.046
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

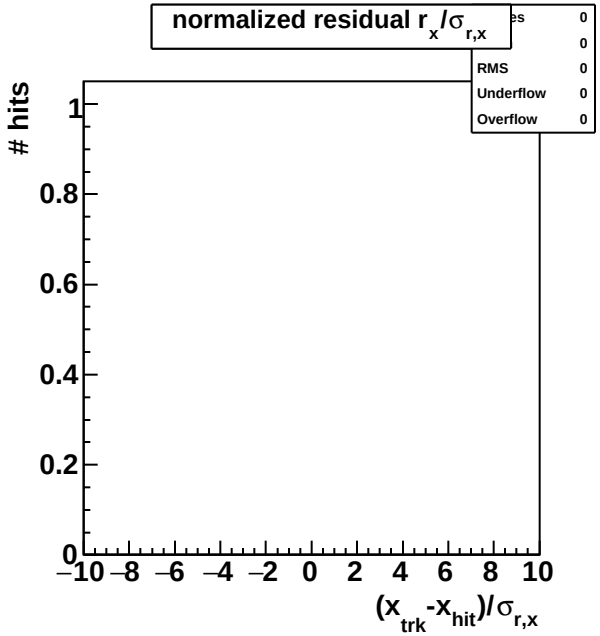
Sector_45/ -- TecMinusRing1Rphi

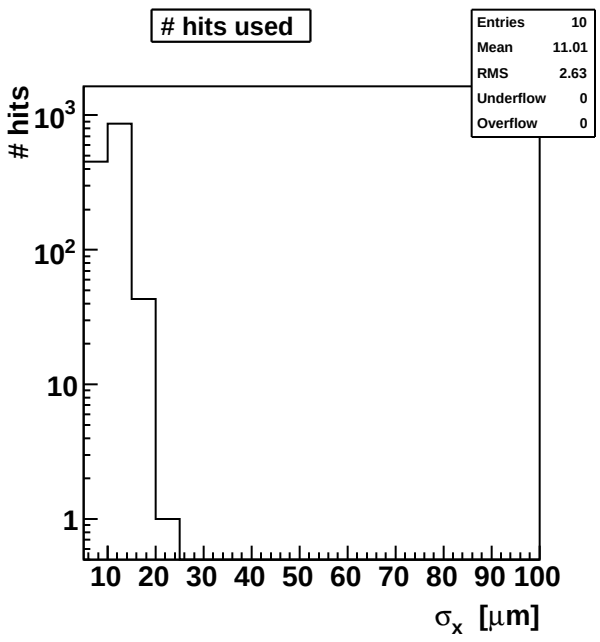

normalized residual $r_x/\sigma_{r,x}$
452
−0.01966
RMS 1.032
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
869
−0.0741
RMS 1.003
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
43
0.09215
RMS 1.255
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1
−1.497
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

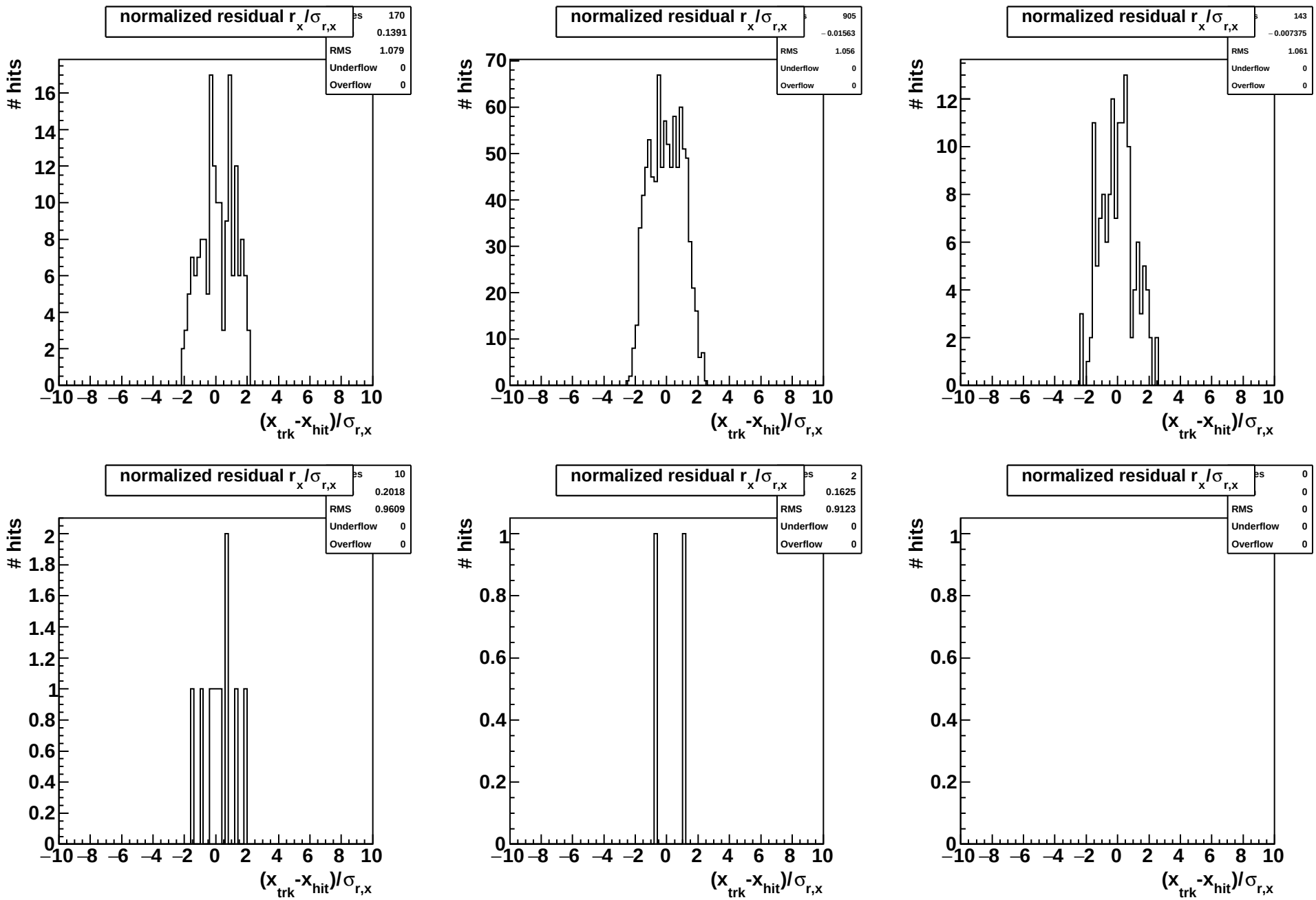

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

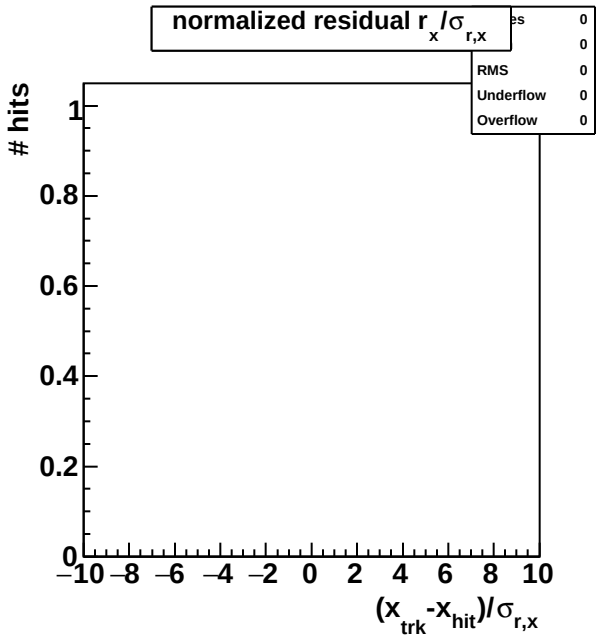

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

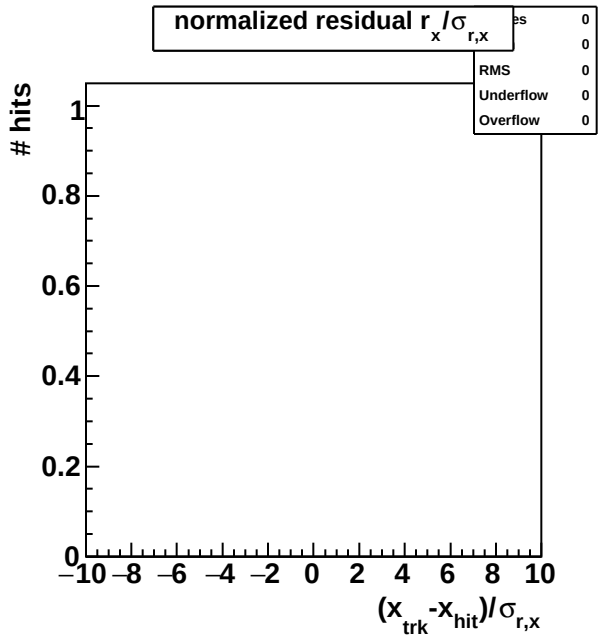

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

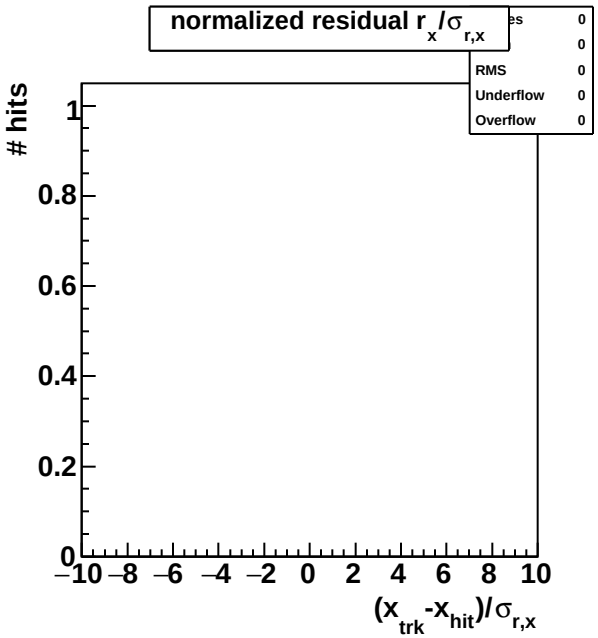

hits used
Entries 10
Mean 11.01
RMS 2.63
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

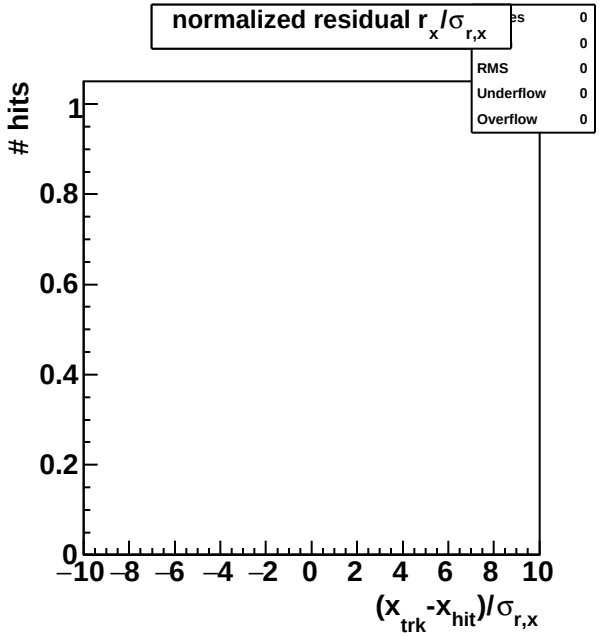
Sector_46/ -- TecMinusRing1Stereo

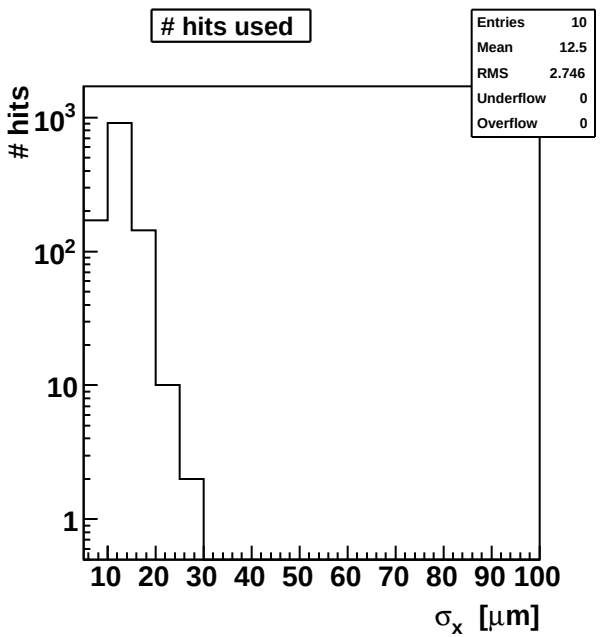

normalized residual r_x/σ_r,x
170
0.1391
RMS 1.079
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
905
−0.01563
RMS 1.056
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
143
−0.007375
RMS 1.061
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
10
0.2018
RMS 0.9609
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
2
0.1625
RMS 0.9123
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
normalized residual r_x/σ_r,x
0
0
RMS 0
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

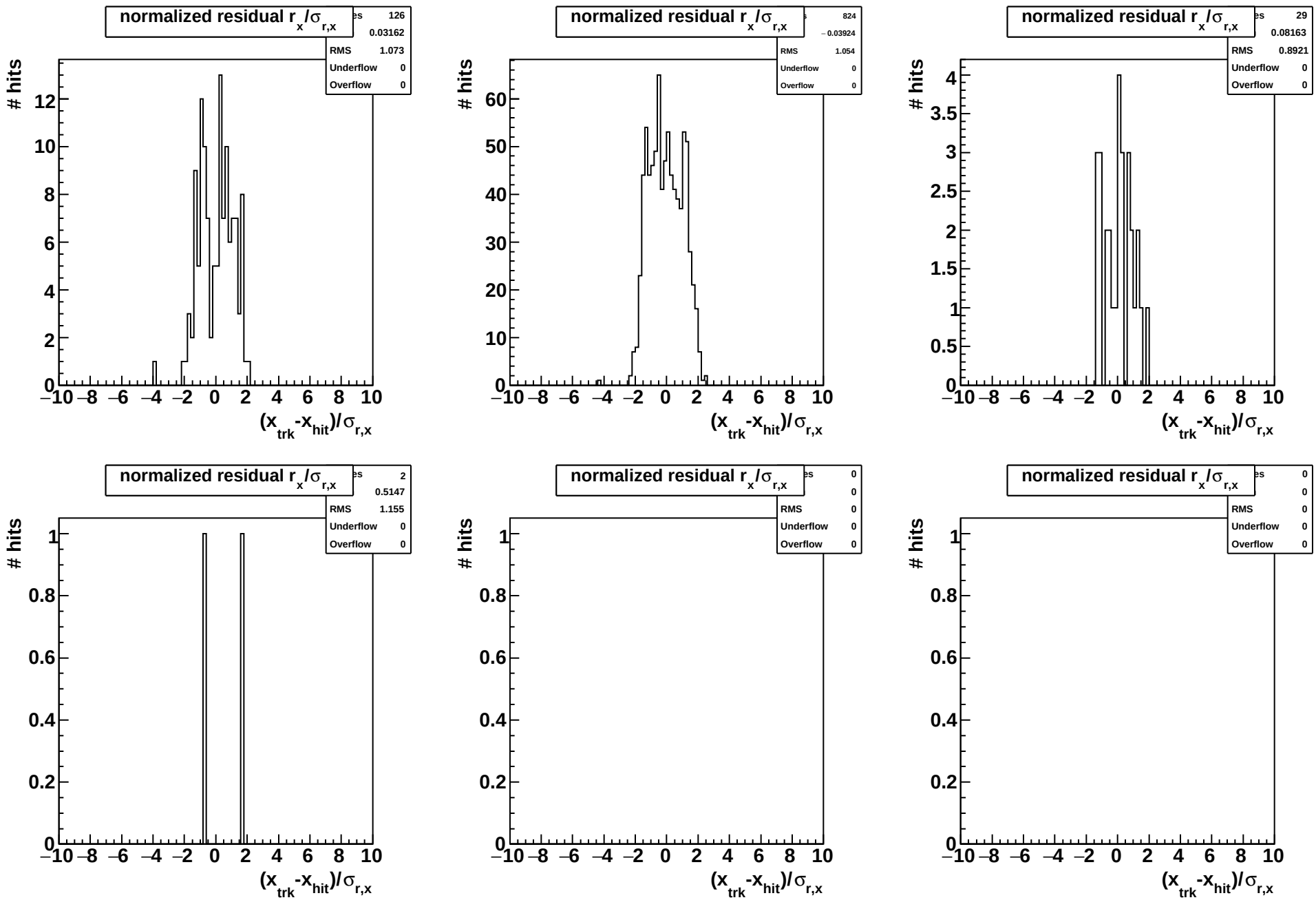

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

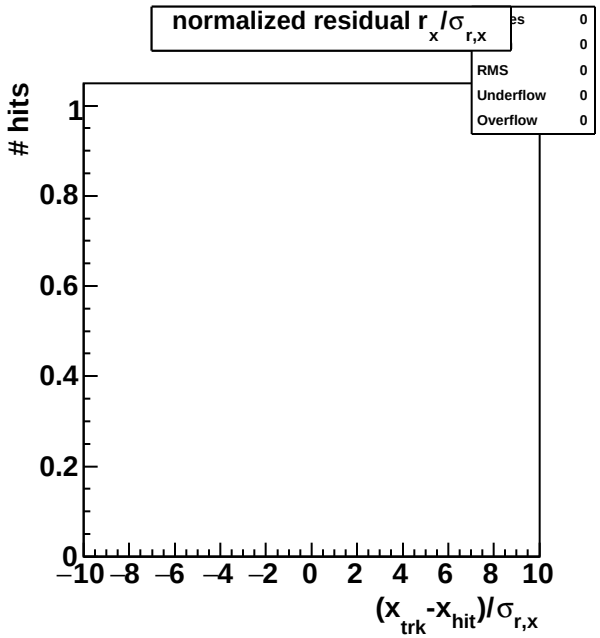

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

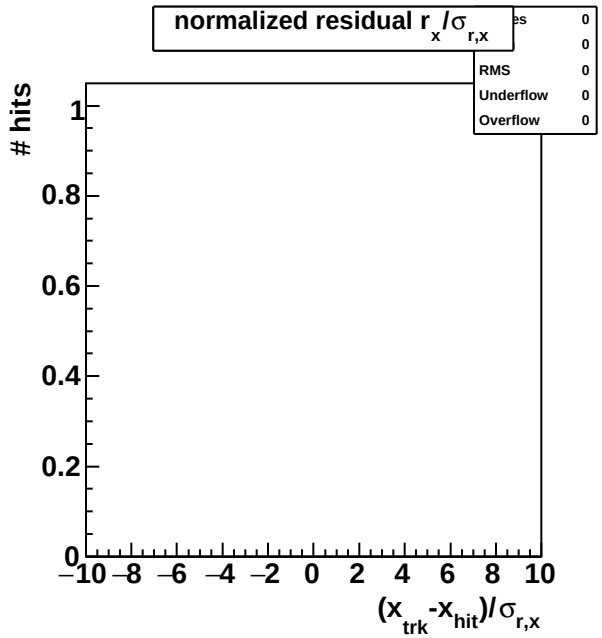

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

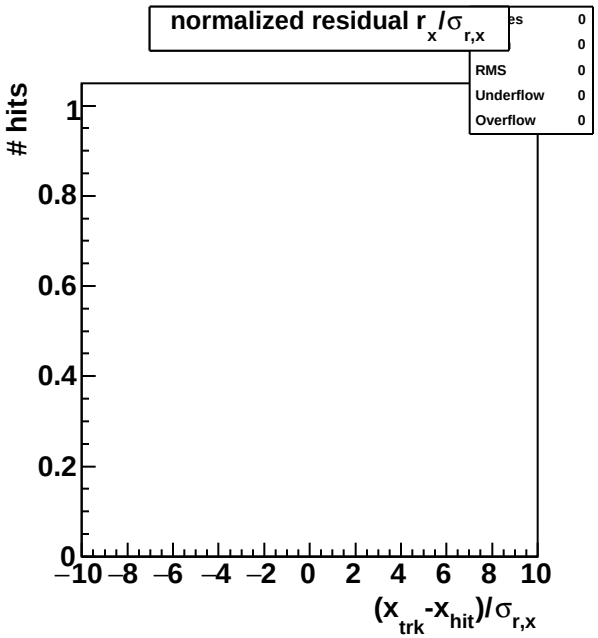

hits used
Entries 10
Mean 12.5
RMS 2.746
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

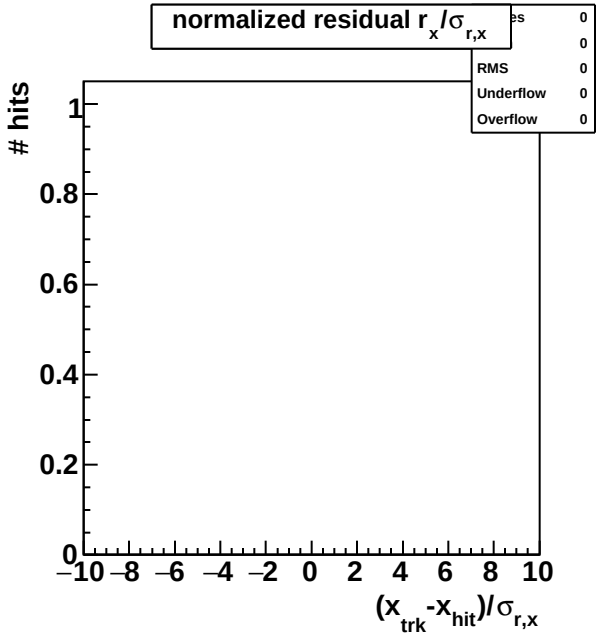
Sector_47/ -- TecMinusRing2Rphi

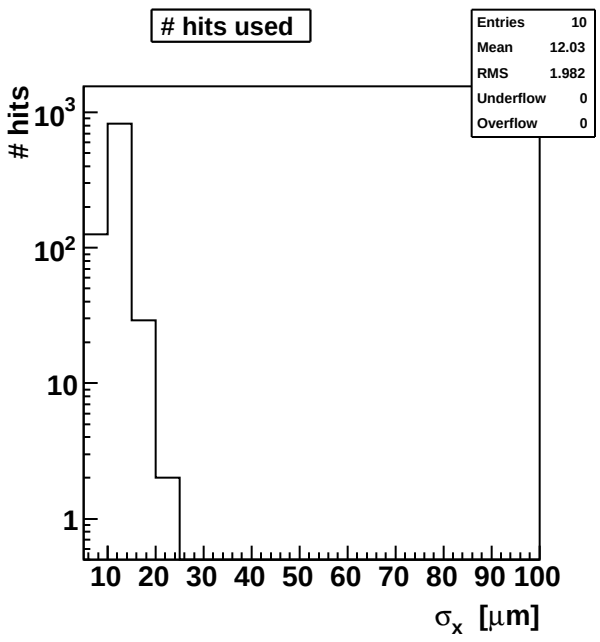

normalized residual $r_x/\sigma_{r,x}$
126
0.03162
RMS 1.073
Underflow 0
Overflow 0
824
− 0.03924
RMS 1.054
Underflow 0
Overflow 0
29
0.08163
RMS 0.8921
Underflow 0
Overflow 0
2
0.5147
RMS 1.155
Underflow 0
Overflow 0
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

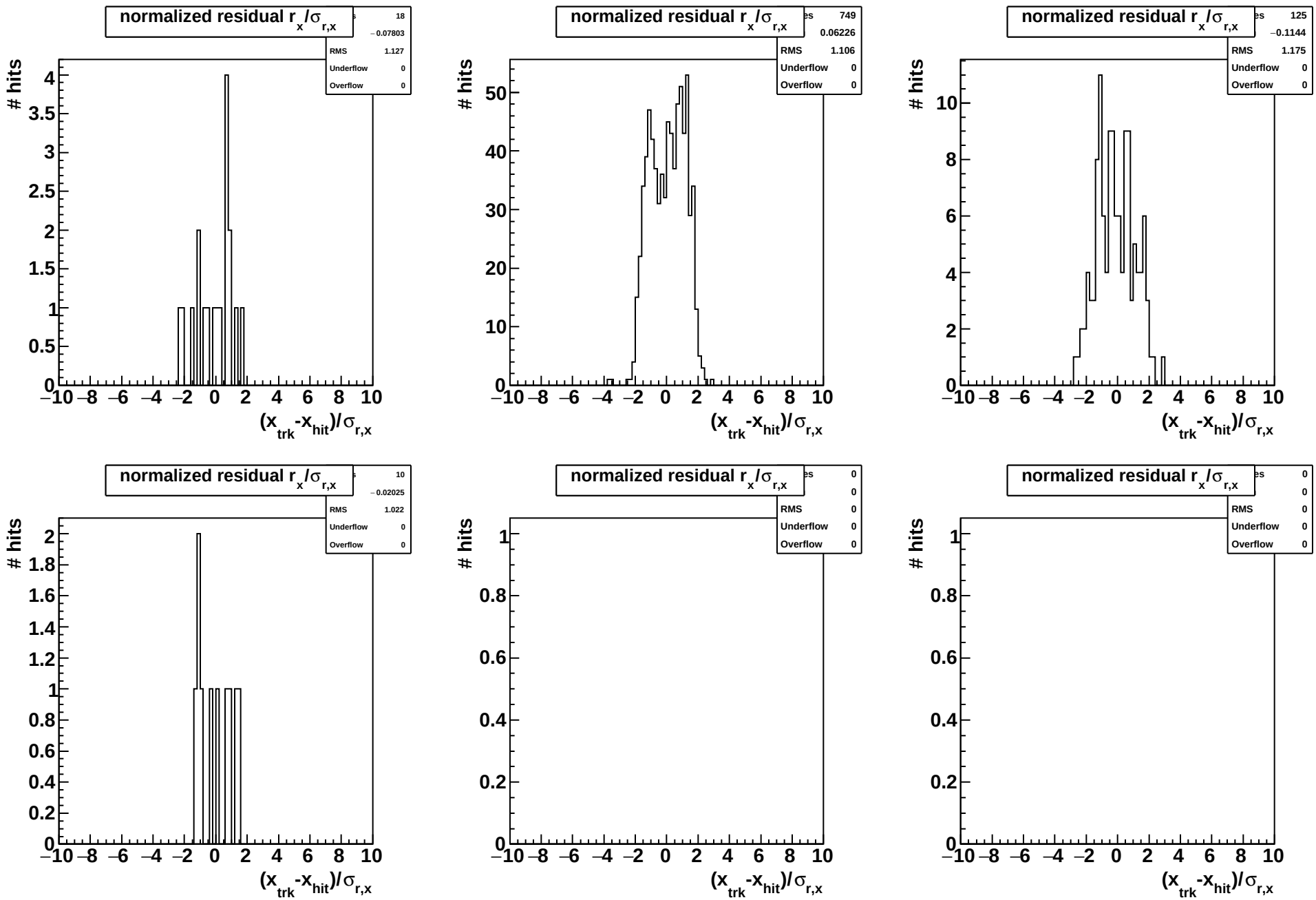

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

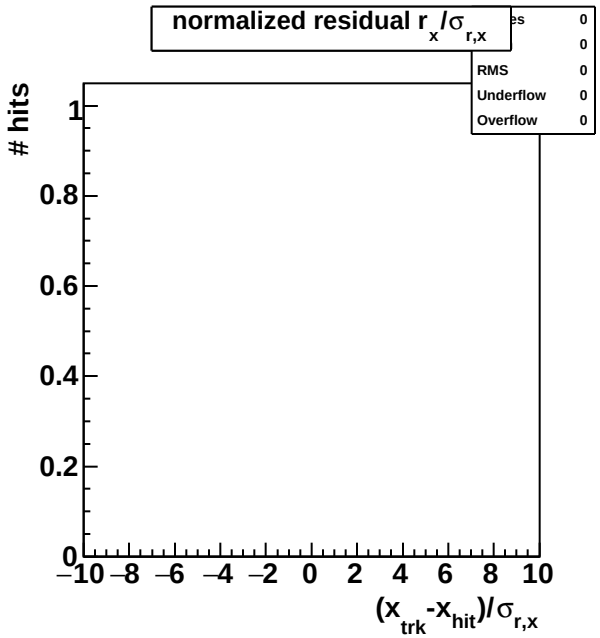

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

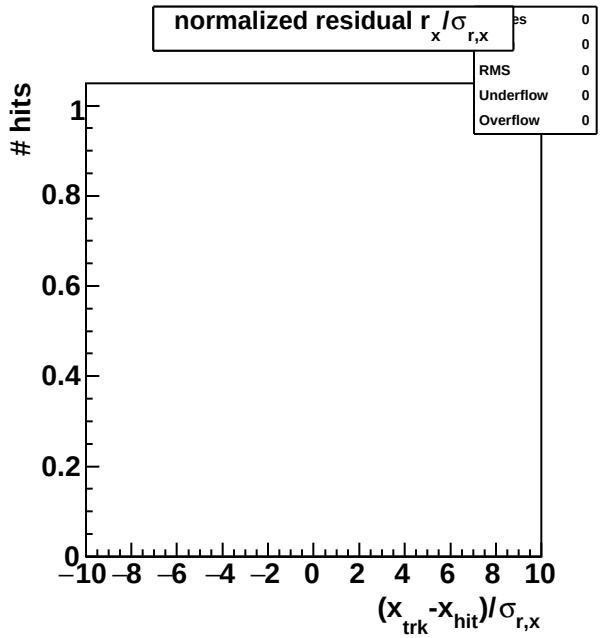

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

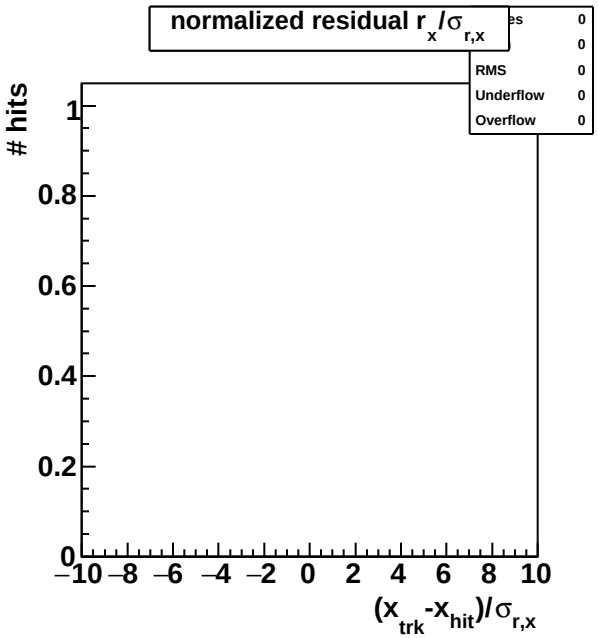

hits used
Entries 10
Mean 12.03
RMS 1.982
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

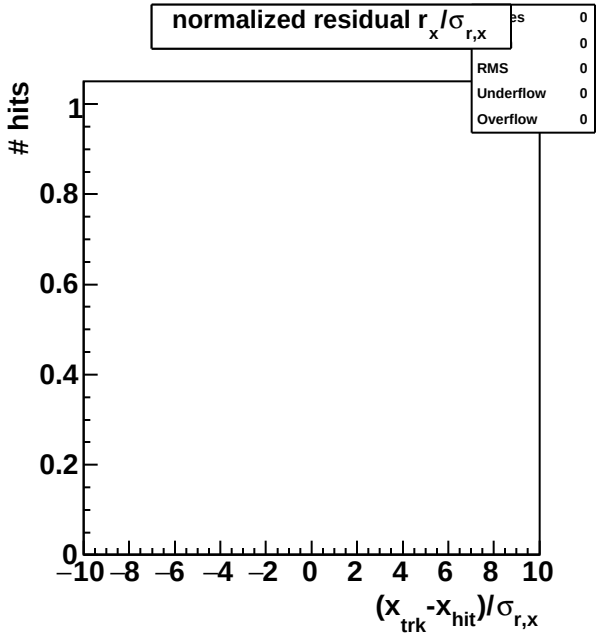
Sector_48/ -- TecMinusRing2Stereo

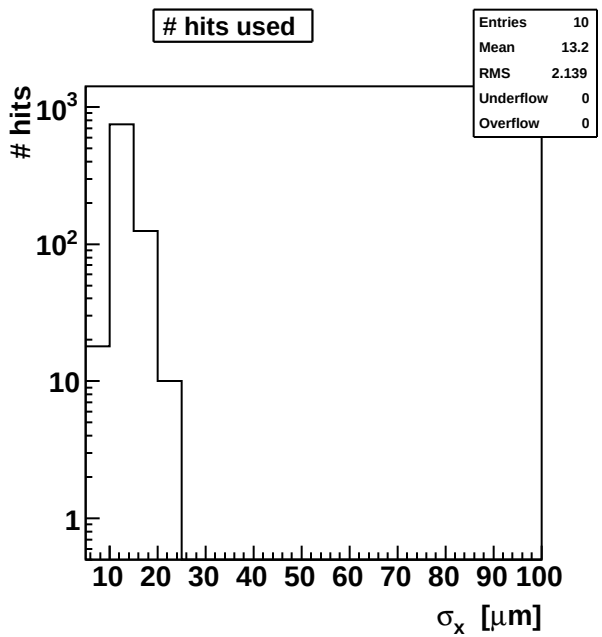

normalized residual $r_x/\sigma_{r,x}$
18
−0.07803
RMS 1.127
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
749
0.06226
RMS 1.106
Underflow 0
Overflow 0
125
−0.1144
RMS 1.175
Underflow 0
Overflow 0
10
−0.02025
RMS 1.022
Underflow 0
Overflow 0
0
RMS 0
Underflow 0
Overflow 0


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

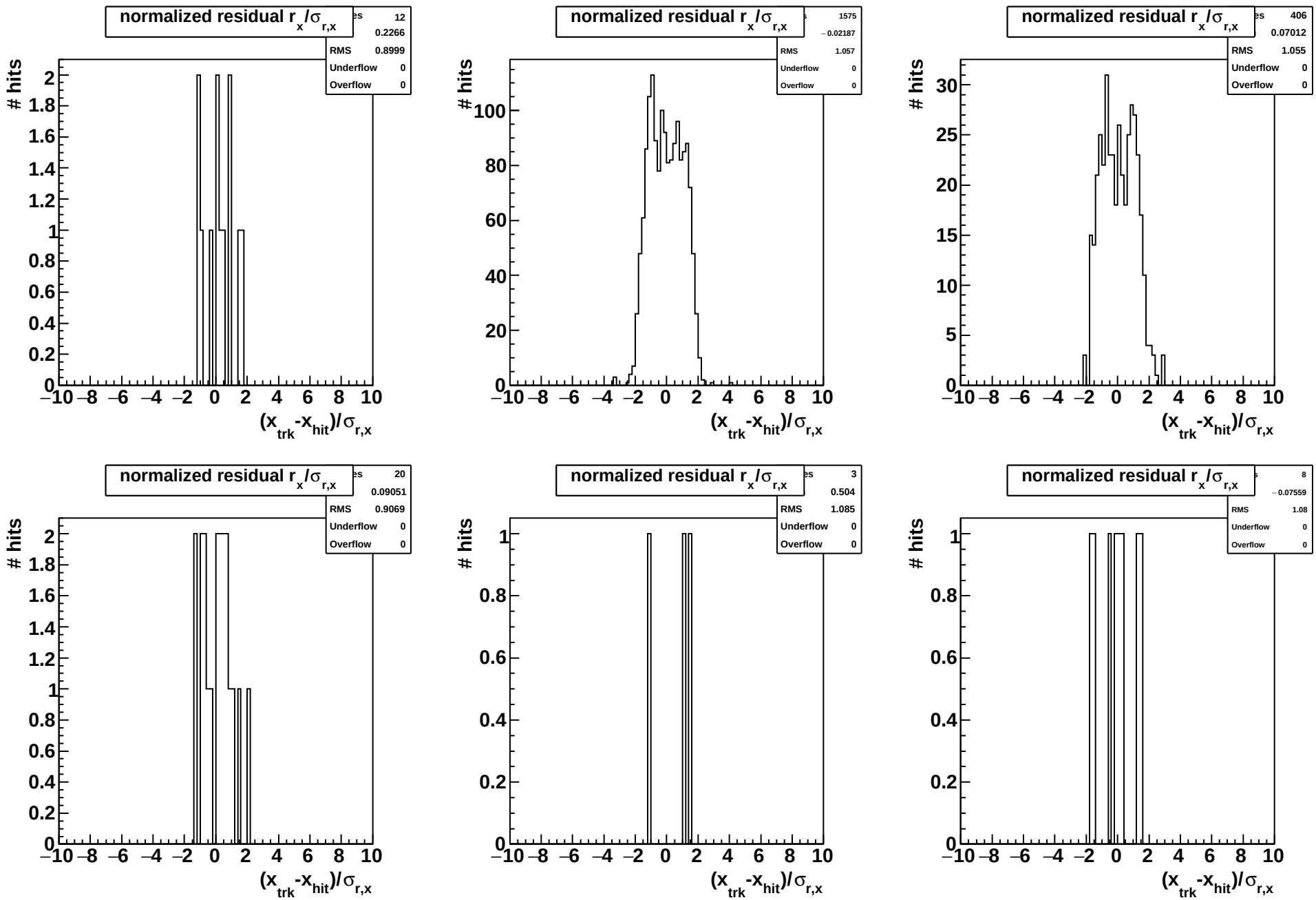

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

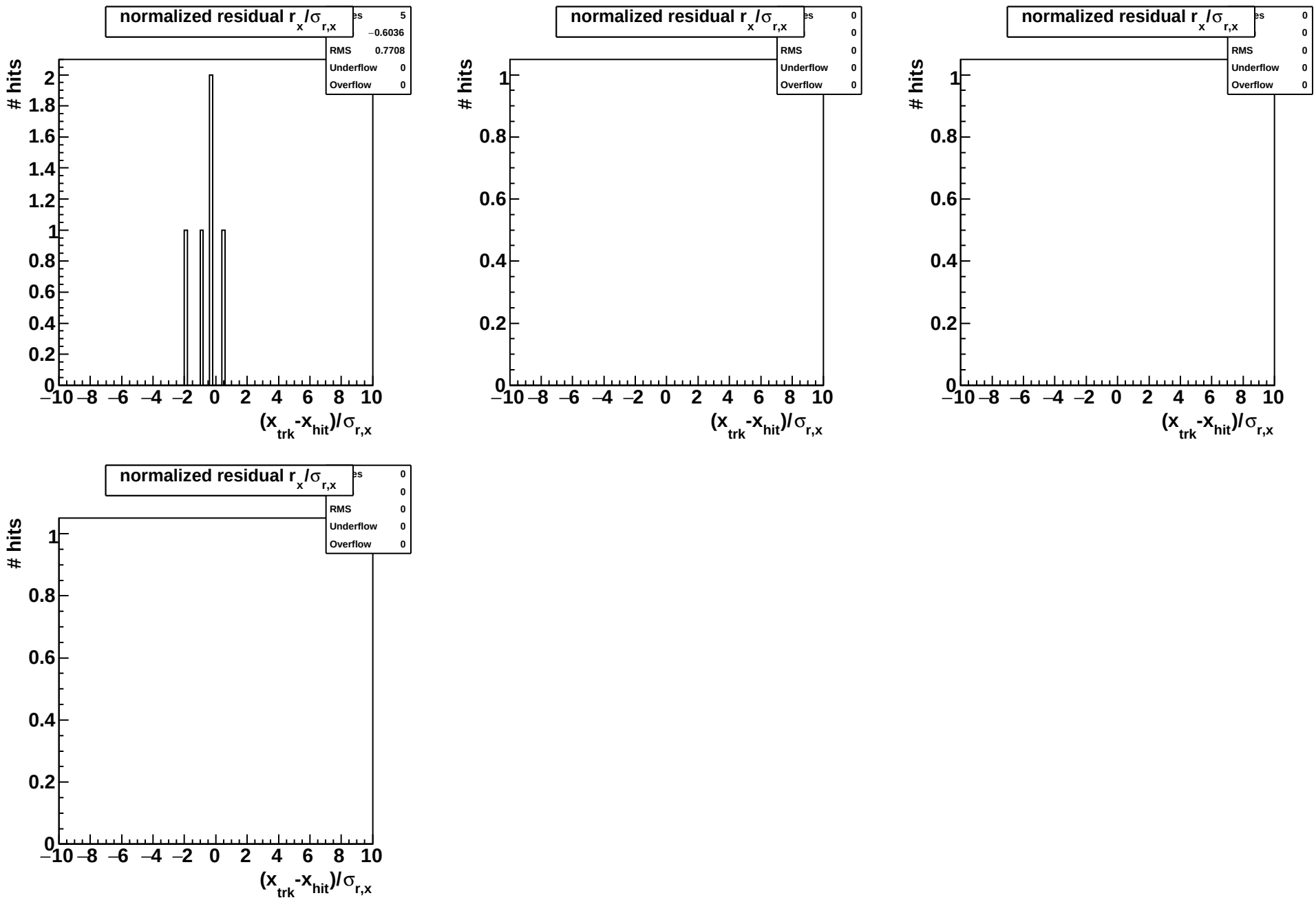

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

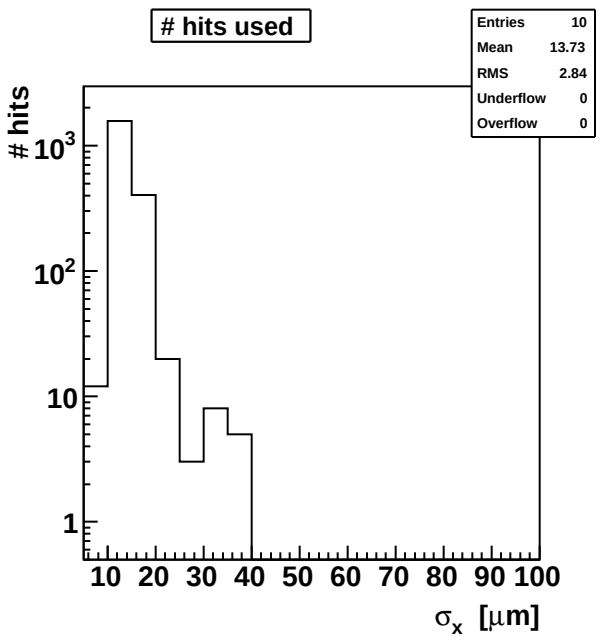

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 13.2
RMS 2.139
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

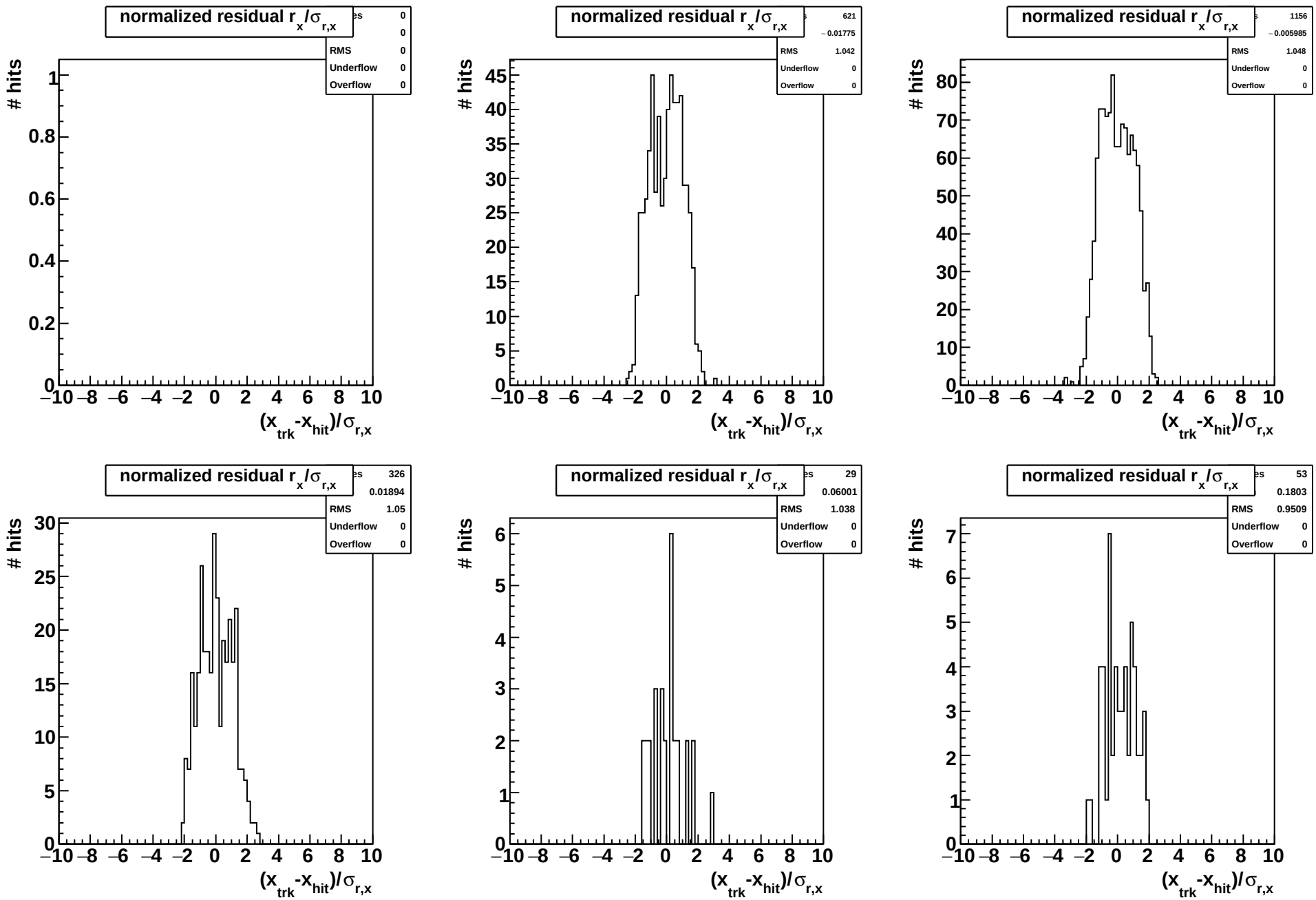
Sector_49/ -- TecMinusRing3

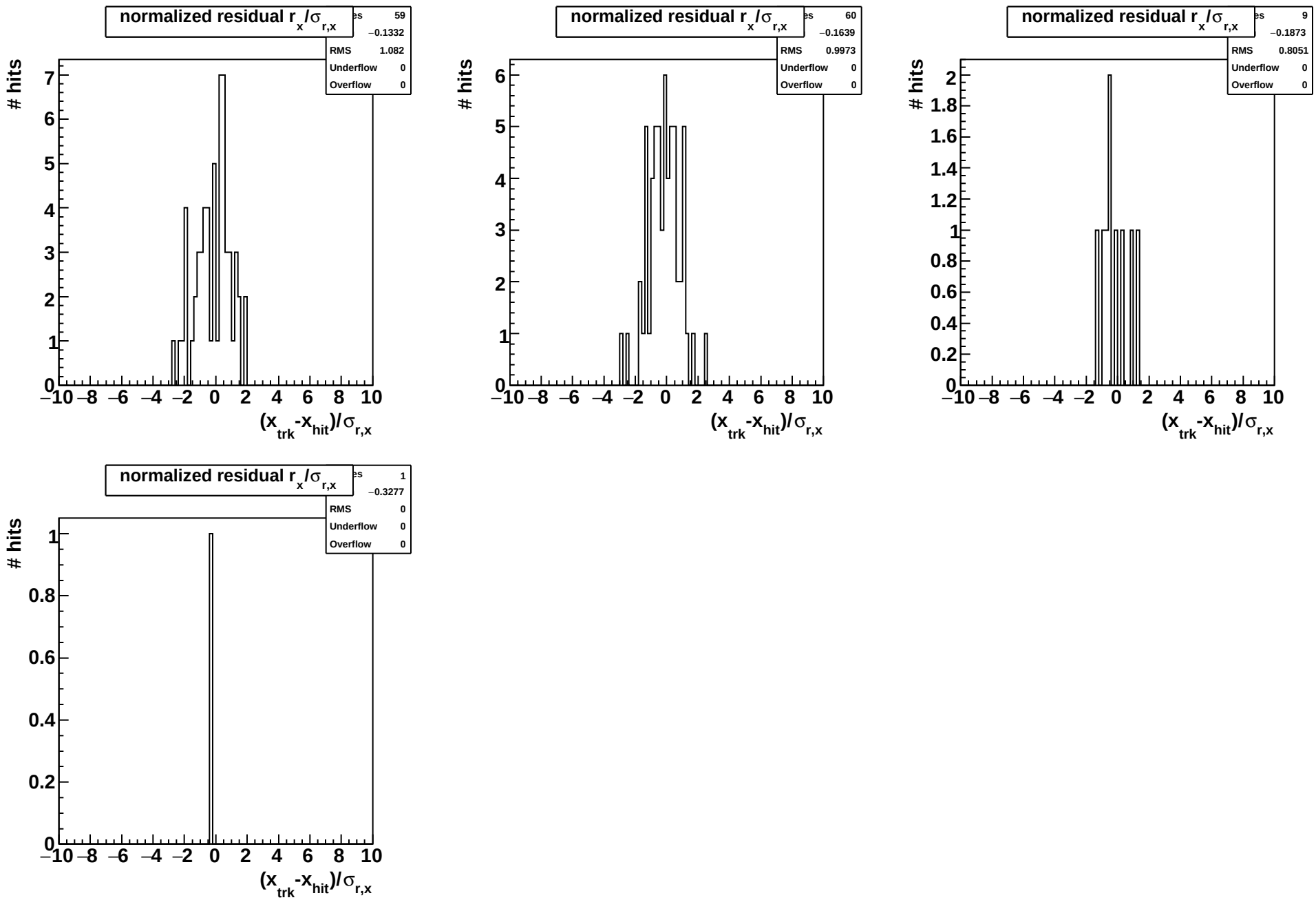

normalized residual r_x/σ_r,x
12
0.2266
RMS 0.8999
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
1575
−0.02187
RMS 1.057
Underflow 0
Overflow 0
406
0.07012
RMS 1.055
Underflow 0
Overflow 0
20
0.09051
RMS 0.9069
Underflow 0
Overflow 0
3
0.504
RMS 1.085
Underflow 0
Overflow 0
8
−0.07559
RMS 1.08
Underflow 0
Overflow 0

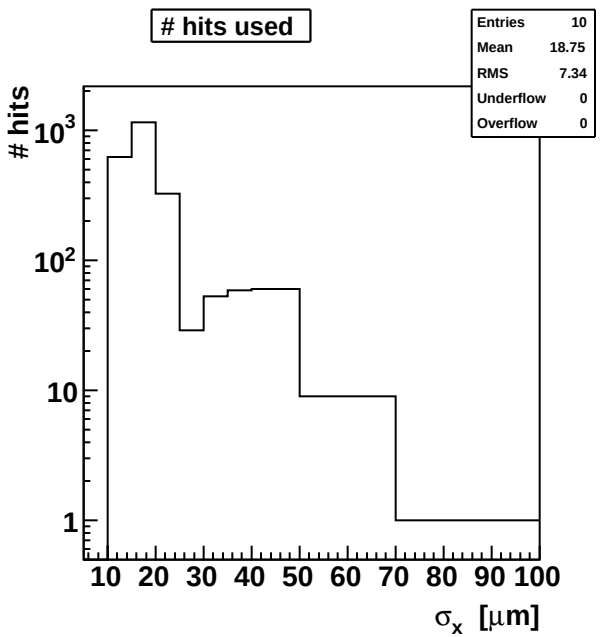

normalized residual $r_x/\sigma_{r,x}$
es 5
−0.6036
RMS 0.7708
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 13.73
RMS 2.84
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

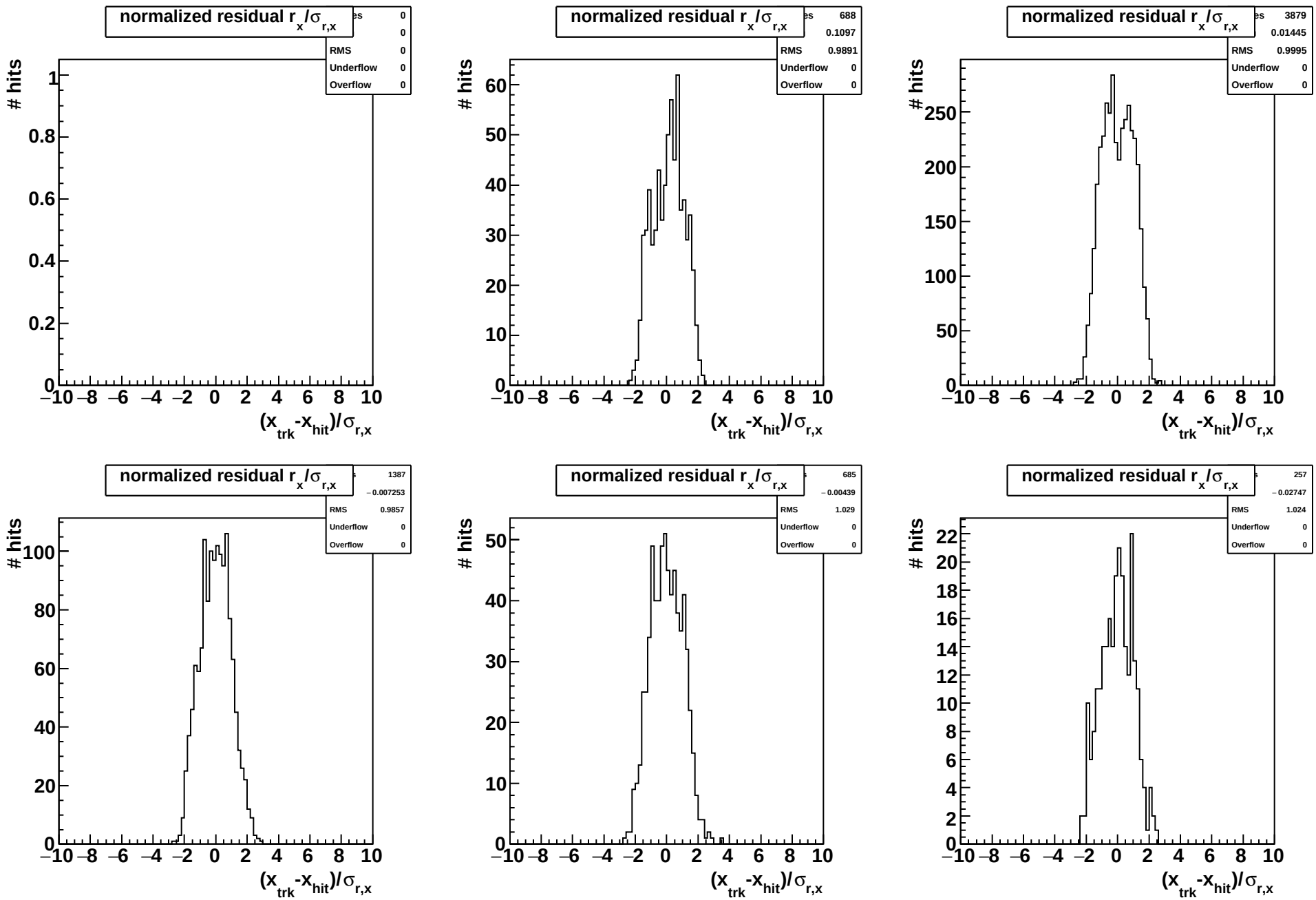
Sector_50/ -- TecMinusRing4

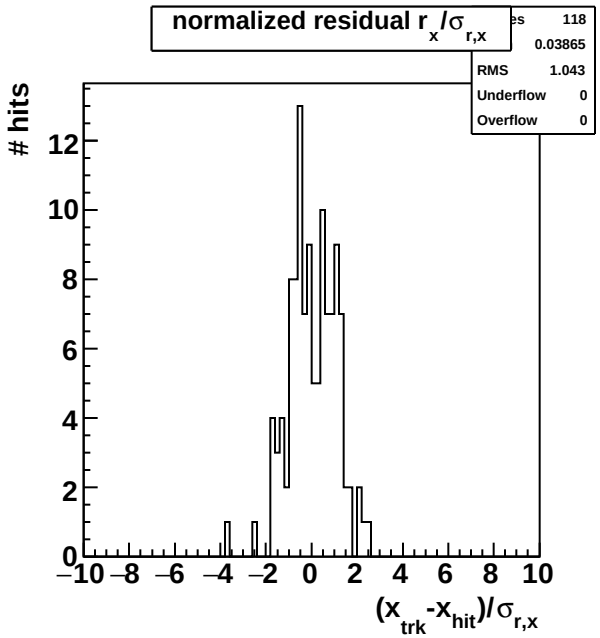

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
621
−0.01775
RMS 1.042
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1156
−0.005985
RMS 1.048
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
326
0.01894
RMS 1.05
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
29
0.06001
RMS 1.038
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
53
0.1803
RMS 0.9509
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

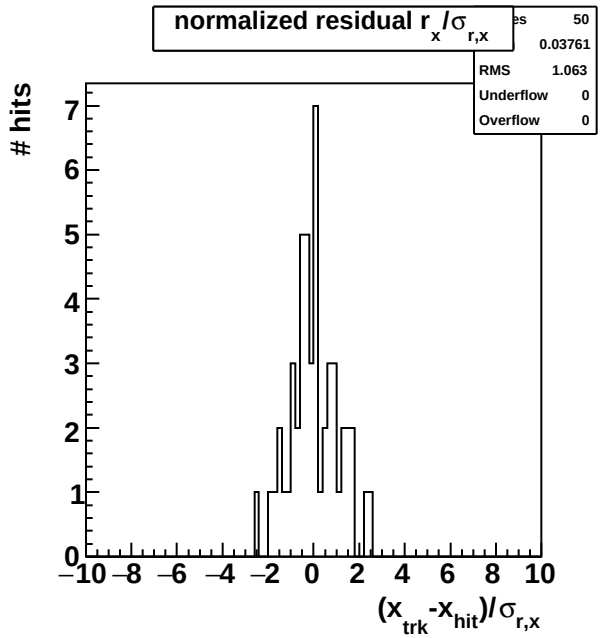

normalized residual $r_x/\sigma_{r,x}$
es 59
−0.1332
RMS 1.082
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 60
−0.1639
RMS 0.9973
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 9
−0.1873
RMS 0.8051
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 1
−0.3277
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

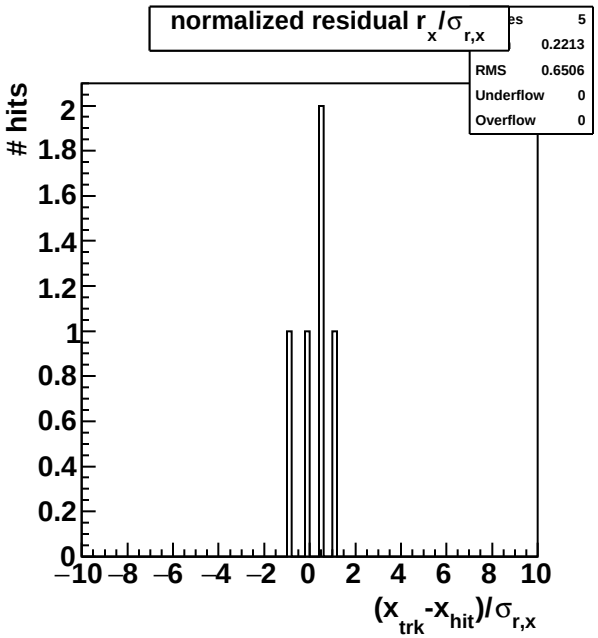

hits used
Entries 10
Mean 18.75
RMS 7.34
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

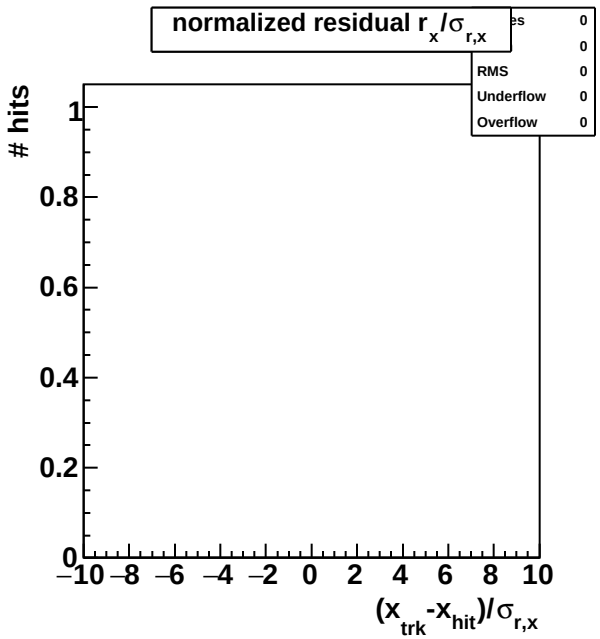
Sector_51/ -- TecMinusRing5Rphi

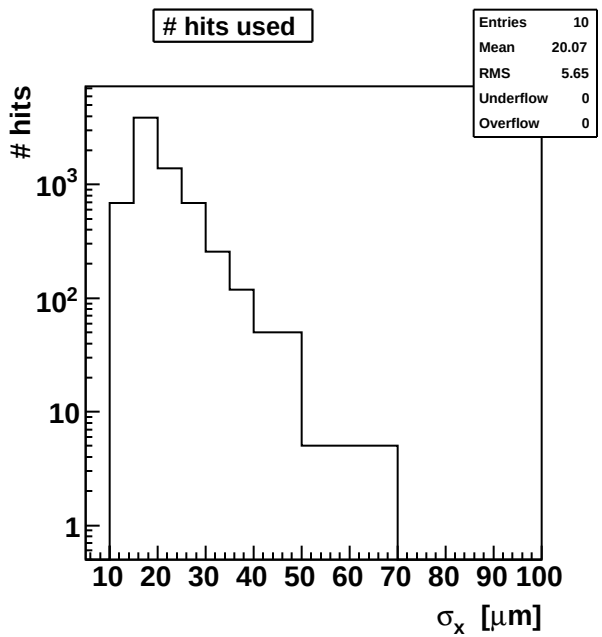

normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
688
0.1097
RMS 0.9891
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
3879
0.01445
RMS 0.9995
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1387
− 0.007253
RMS 0.9857
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
685
− 0.00439
RMS 1.029
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
257
− 0.02747
RMS 1.024
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
118
0.03865
RMS 1.043
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

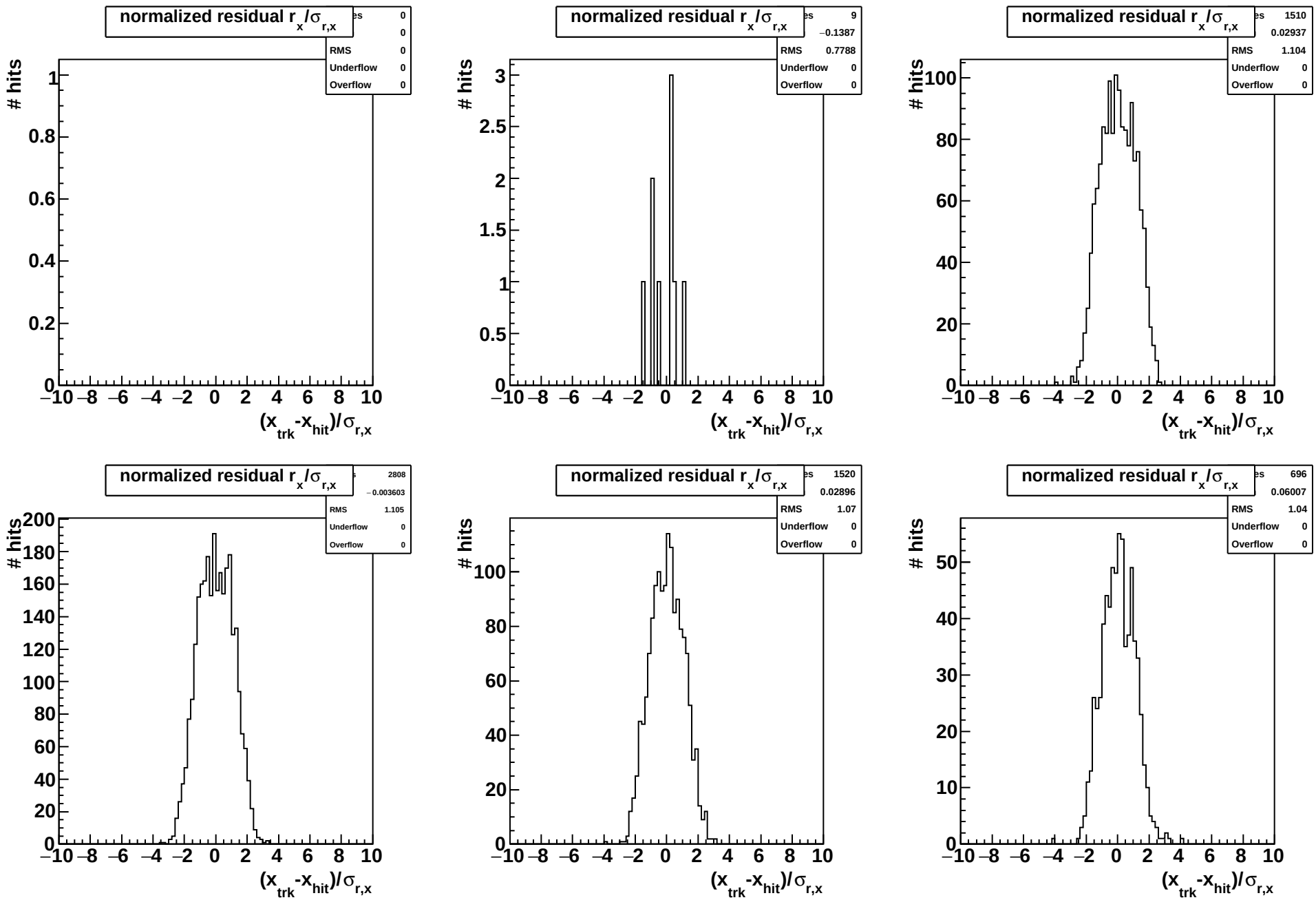

normalized residual $r_x/\sigma_{r,x}$
50
0.03761
RMS 1.063
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

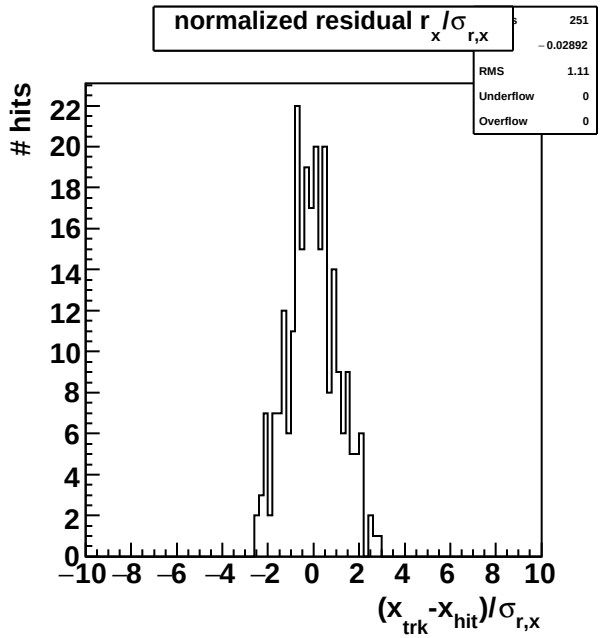

normalized residual $r_x/\sigma_{r,x}$
5
0.2213
RMS 0.6506
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

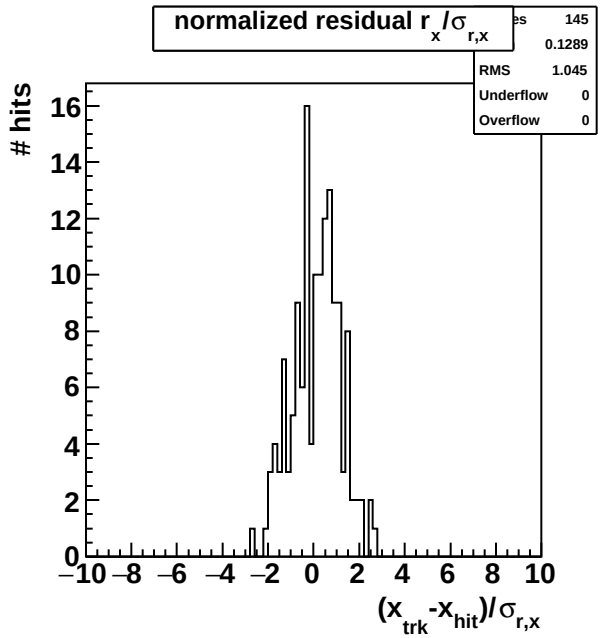

normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

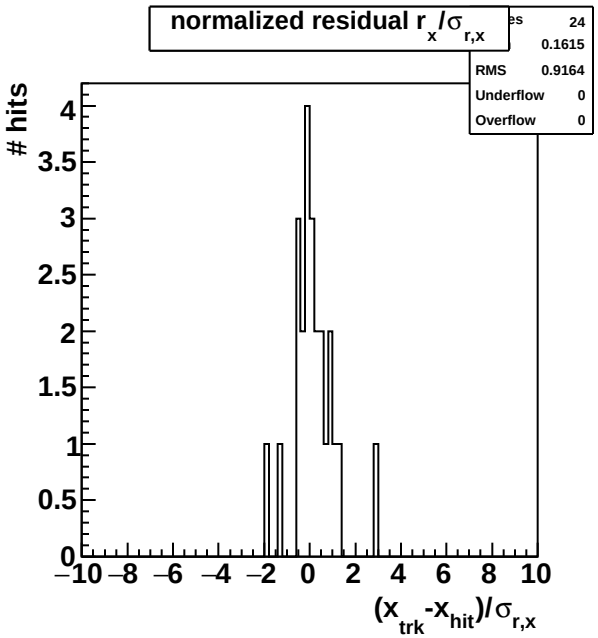

hits used
Entries 10
Mean 20.07
RMS 5.65
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

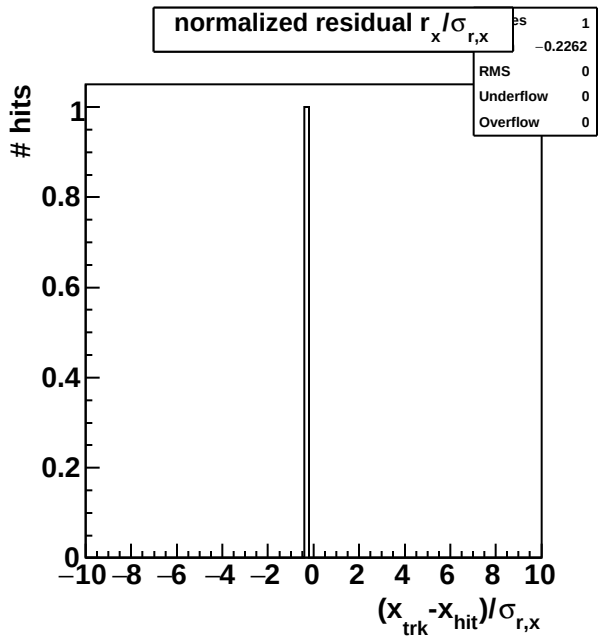
Sector_52/ -- TecMinusRing5Stereo

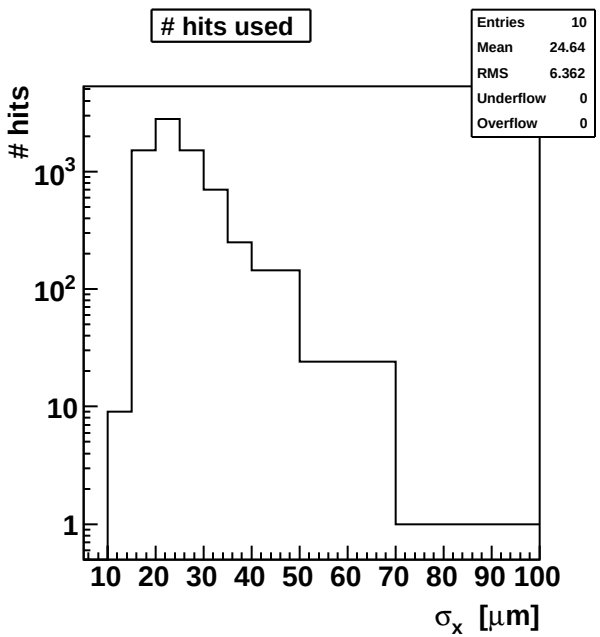

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
9
−0.1387
RMS 0.7788
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1510
0.02937
RMS 1.104
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
2808
−0.003603
RMS 1.105
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1520
0.02896
RMS 1.07
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
696
0.06007
RMS 1.04
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
251
−0.02892
RMS 1.11
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

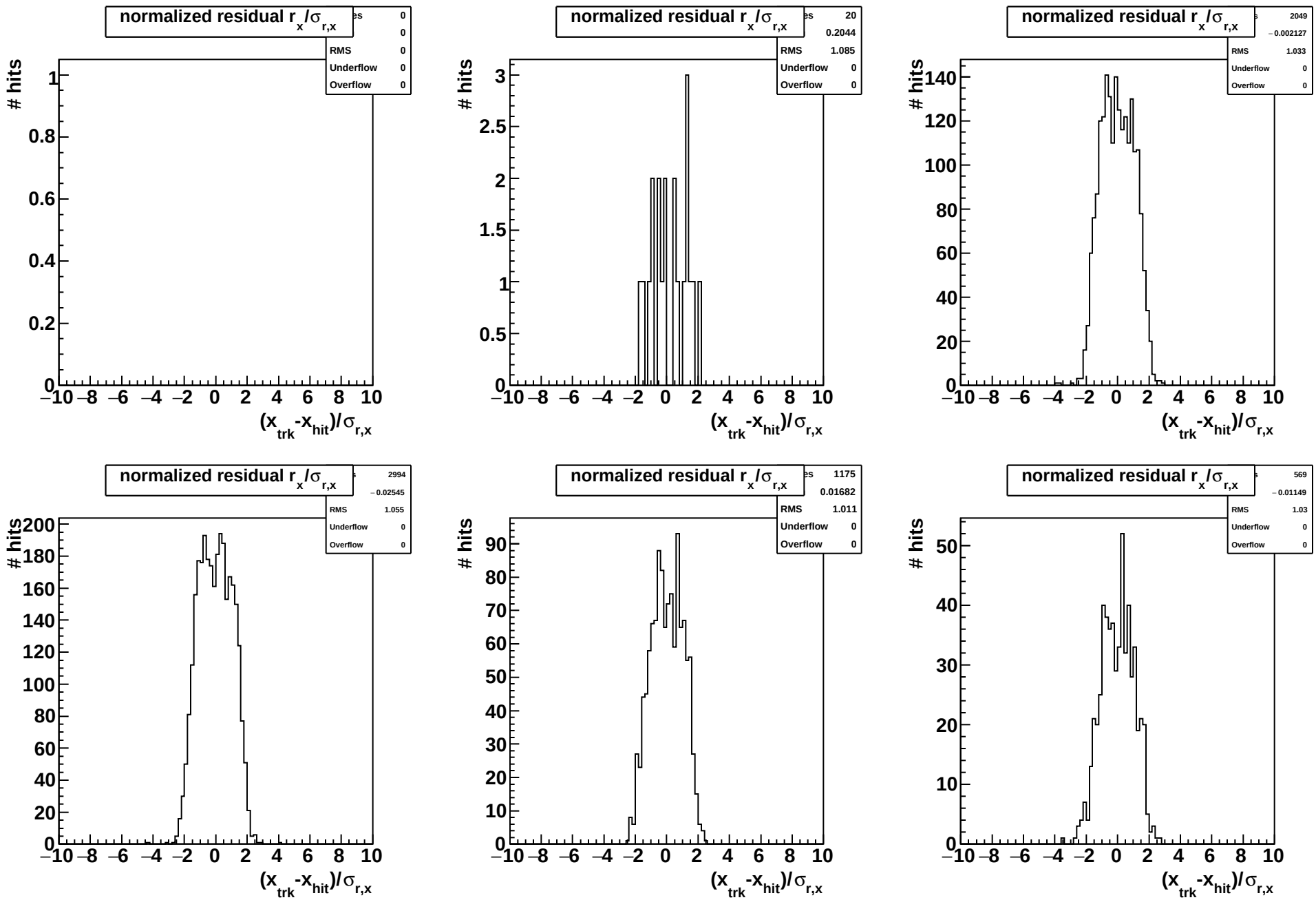

normalized residual $r_x/\sigma_{r,x}$
145
0.1289
RMS 1.045
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

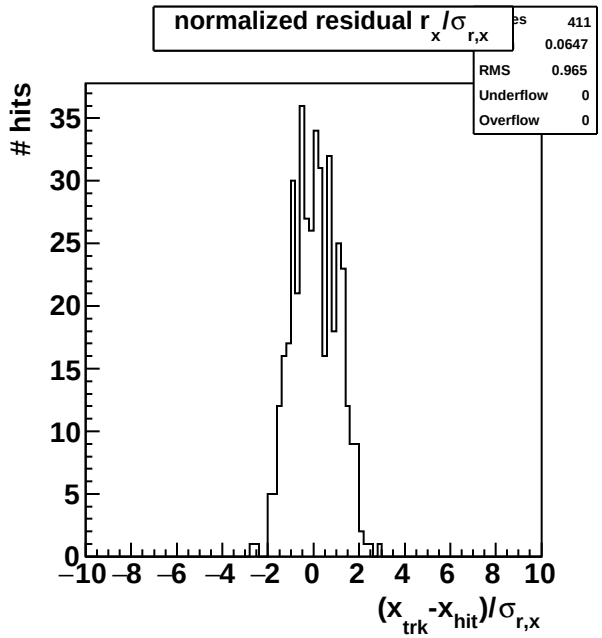

normalized residual $r_x/\sigma_{r,x}$
24
0.1615
RMS 0.9164
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

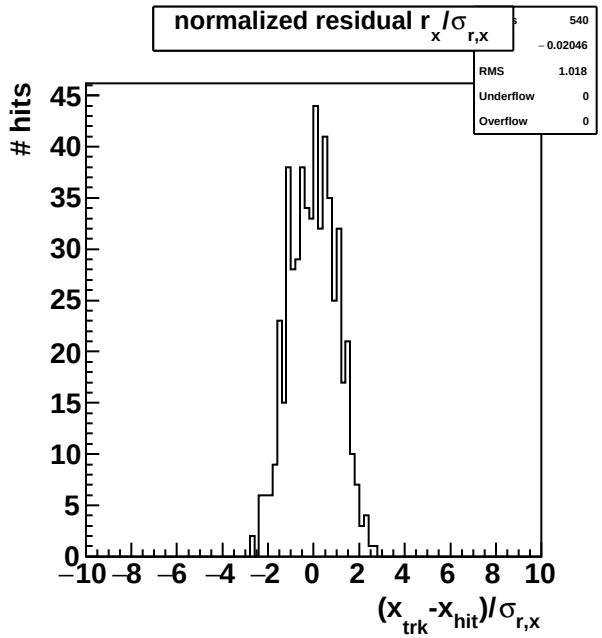

normalized residual $r_x/\sigma_{r,x}$
1
−0.2262
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

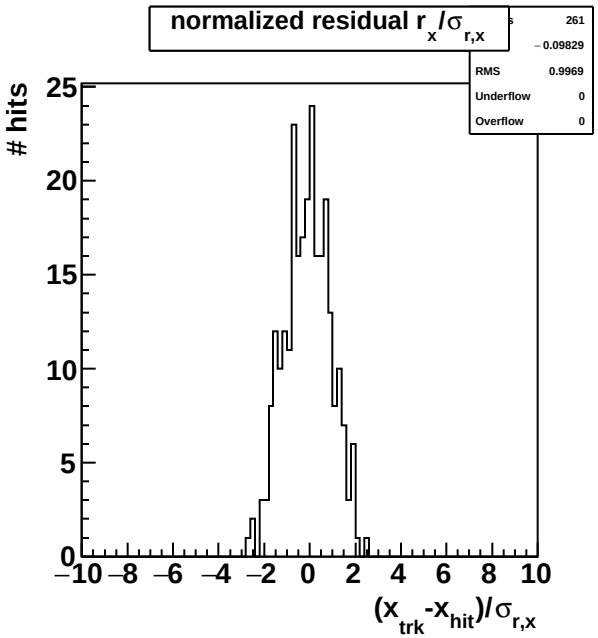

hits used
Entries 10
Mean 24.64
RMS 6.362
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

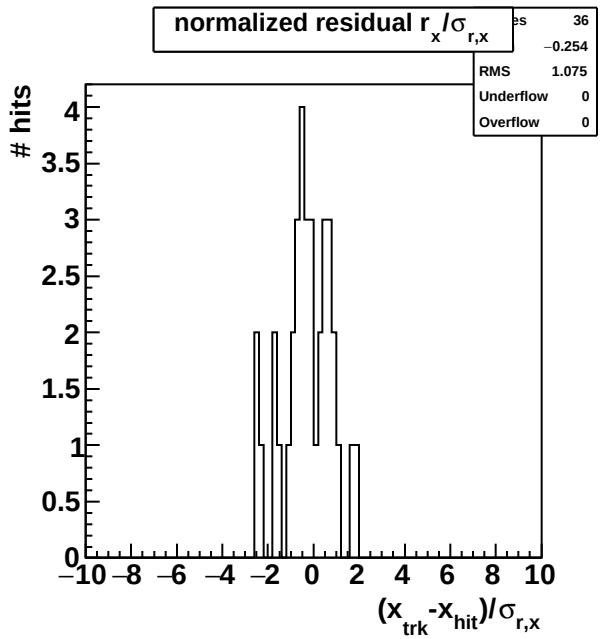
Sector_53/ -- TecMinusRing6

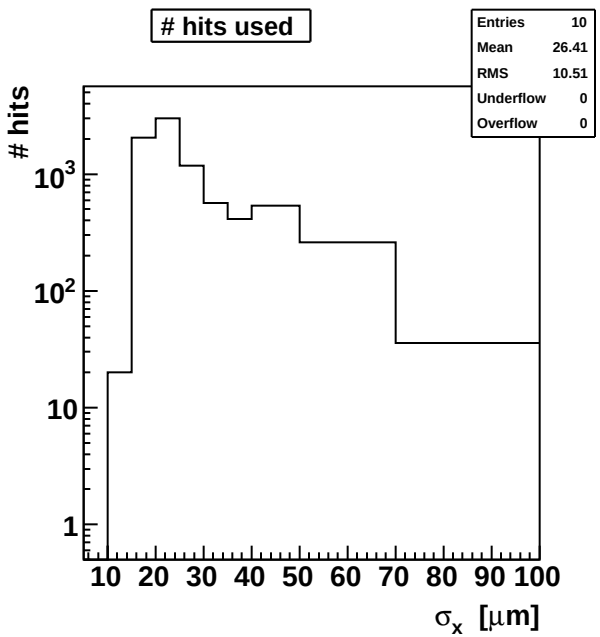

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
0.2044
RMS 1.085
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
−0.002127
RMS 1.033
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
−0.02545
RMS 1.055
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
0.01682
RMS 1.011
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
−0.01149
RMS 1.03
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
411
0.0647
RMS 0.965
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

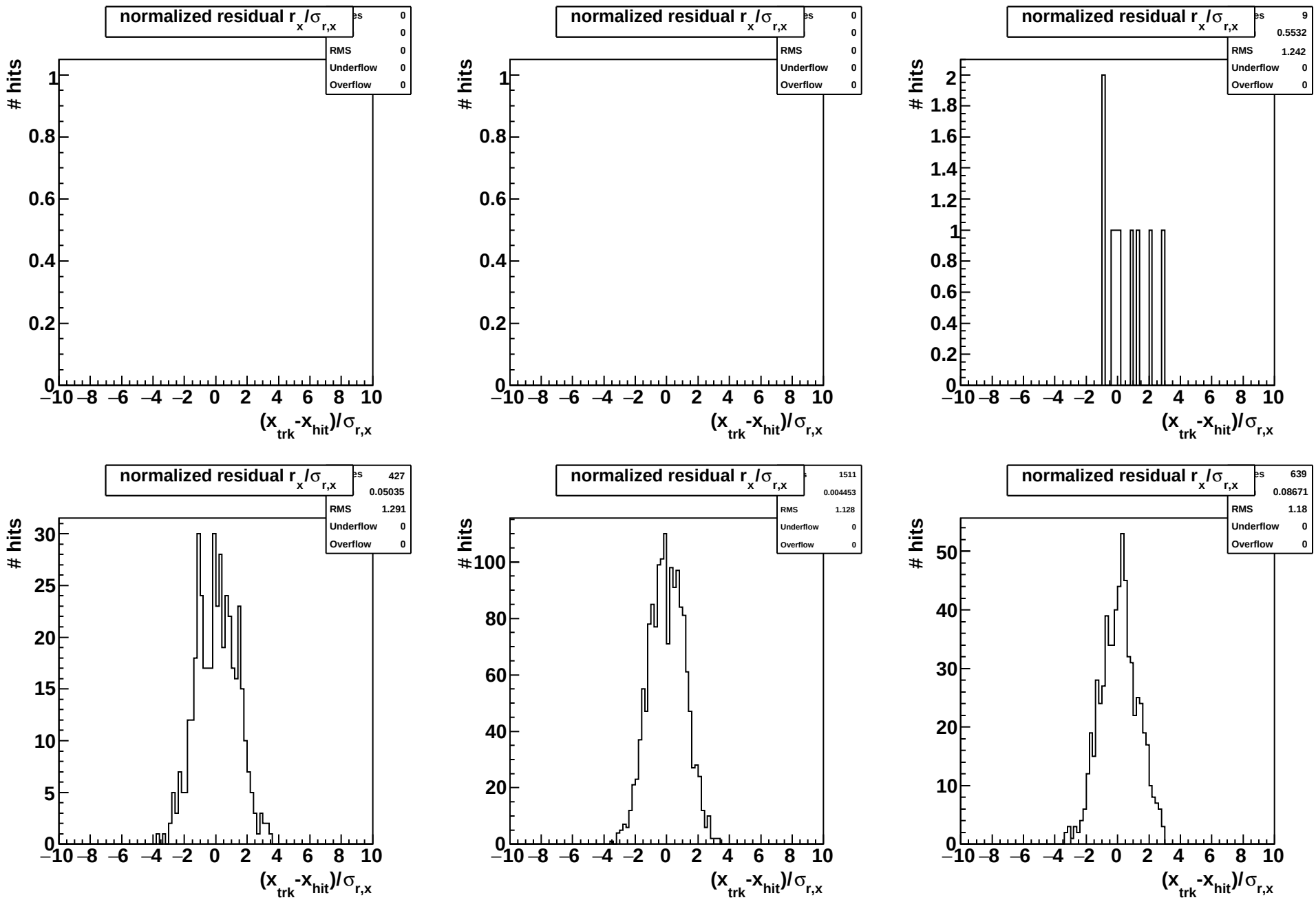

normalized residual $r_x/\sigma_{r,x}$
540
−0.02046
RMS 1.018
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

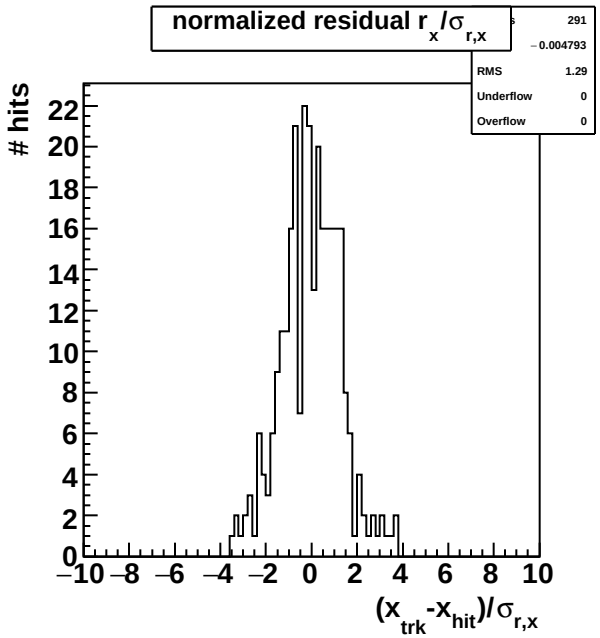

normalized residual $r_x/\sigma_{r,x}$
261
−0.09829
RMS 0.9969
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

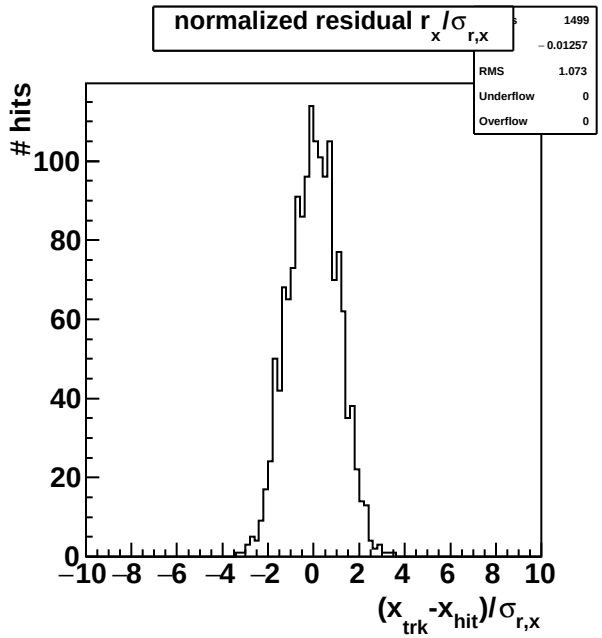

normalized residual $r_x/\sigma_{r,x}$
36
−0.254
RMS 1.075
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

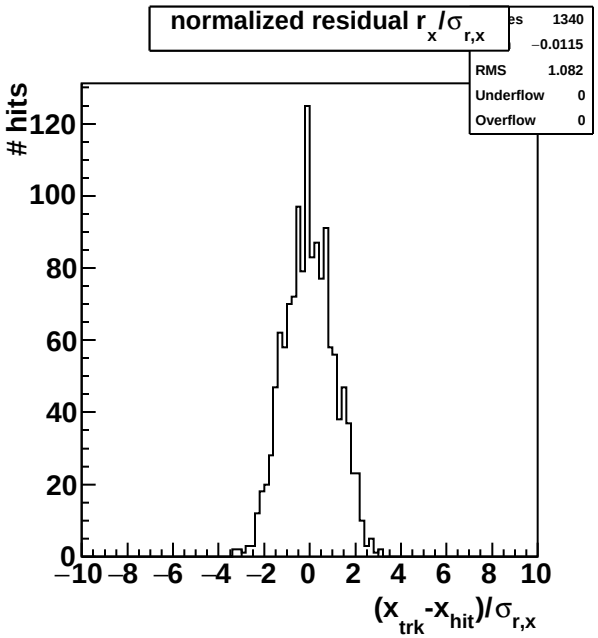

hits used
Entries 10
Mean 26.41
RMS 10.51
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

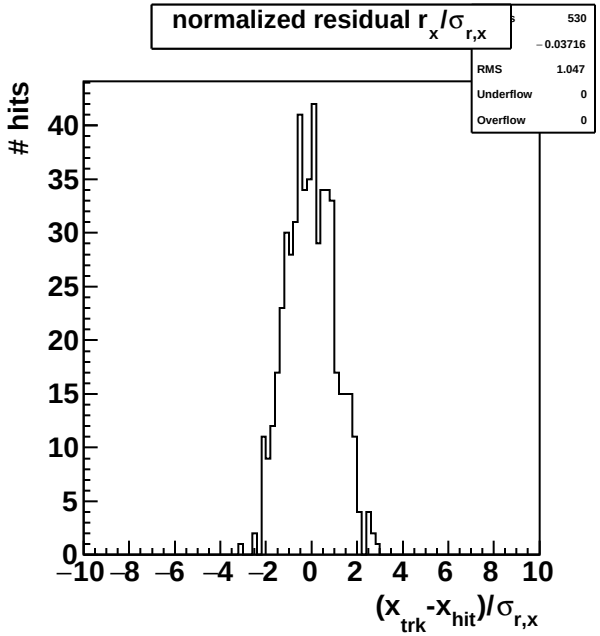
Sector_54/ -- TecMinusRing7

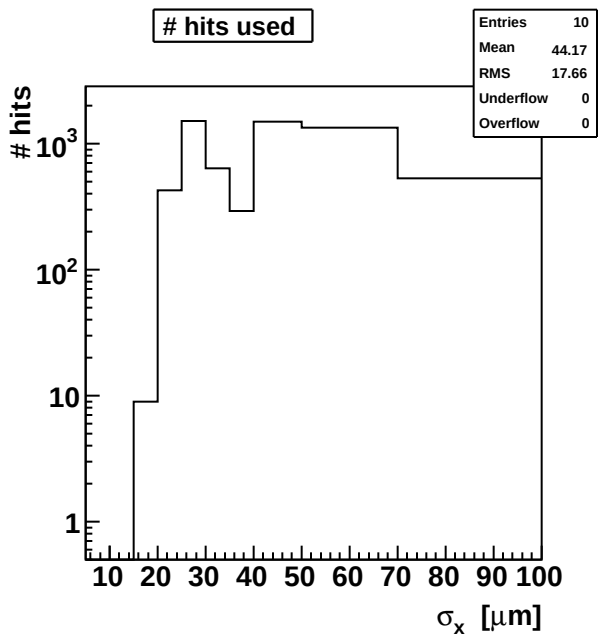

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
0.5532
RMS 1.242
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
427
0.05035
RMS 1.291
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1511
0.004453
RMS 1.128
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
639
0.08671
RMS 1.18
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
291
−0.004793
RMS 1.29
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

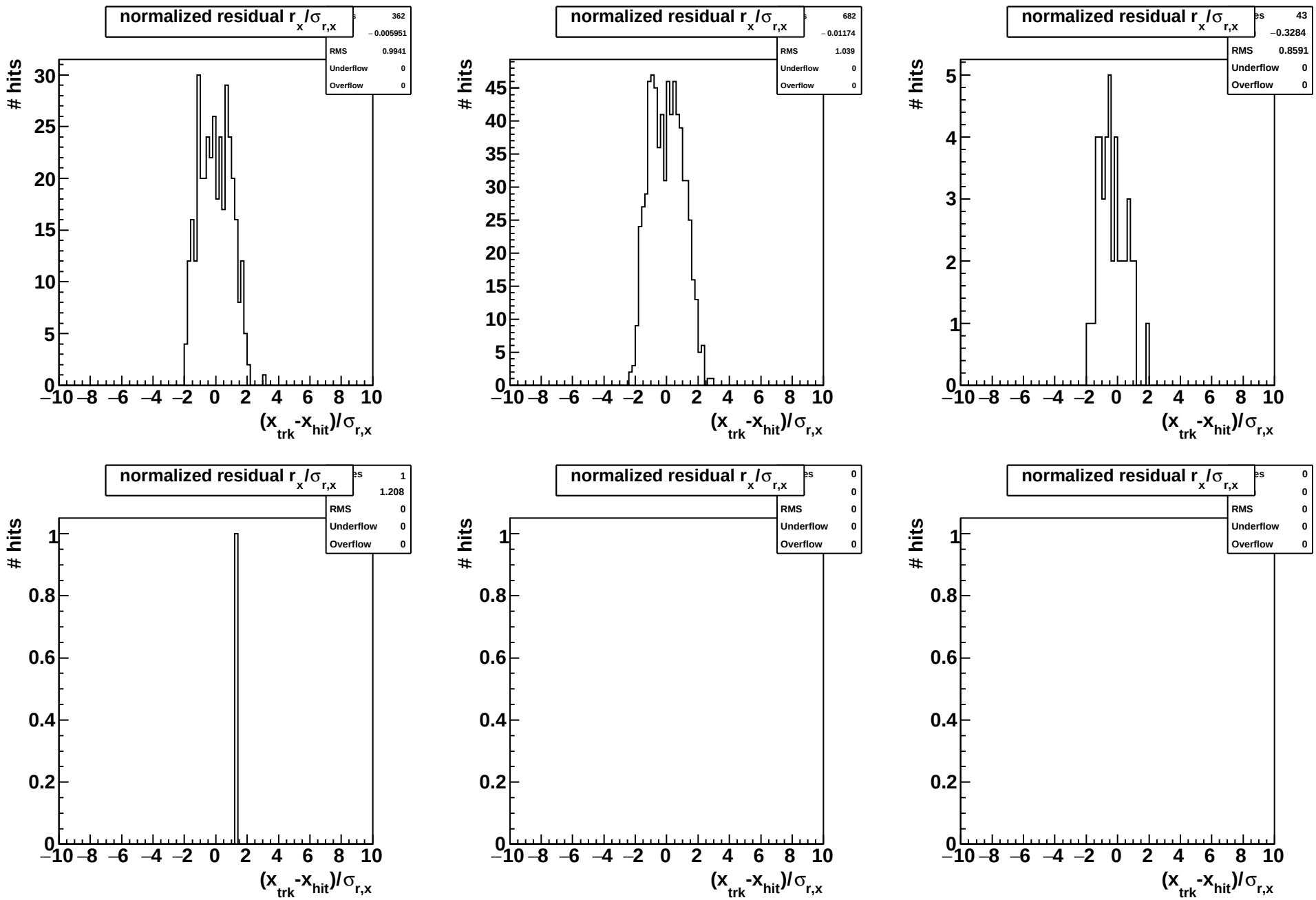

normalized residual $r_x/\sigma_{r,x}$
1499
−0.01257
RMS 1.073
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

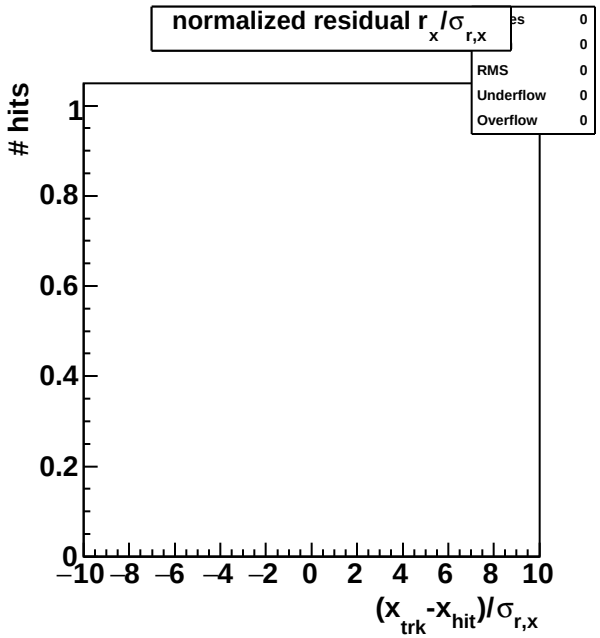

normalized residual $r_x/\sigma_{r,x}$
1340
−0.0115
RMS 1.082
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

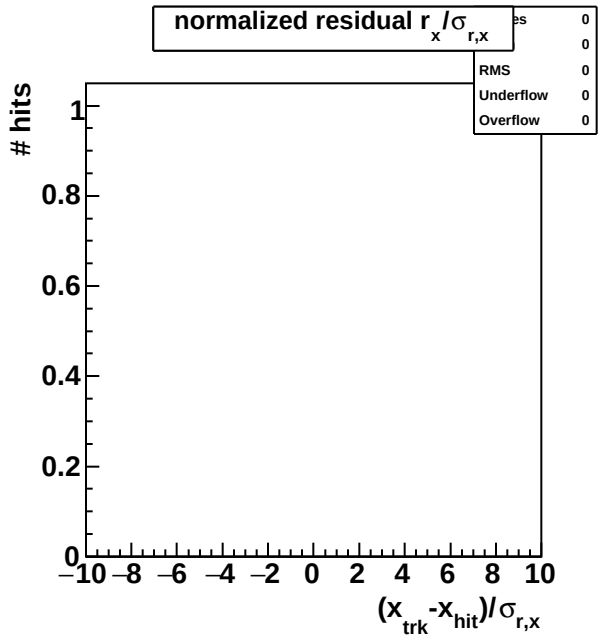

normalized residual $r_x/\sigma_{r,x}$
530
−0.03716
RMS 1.047
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

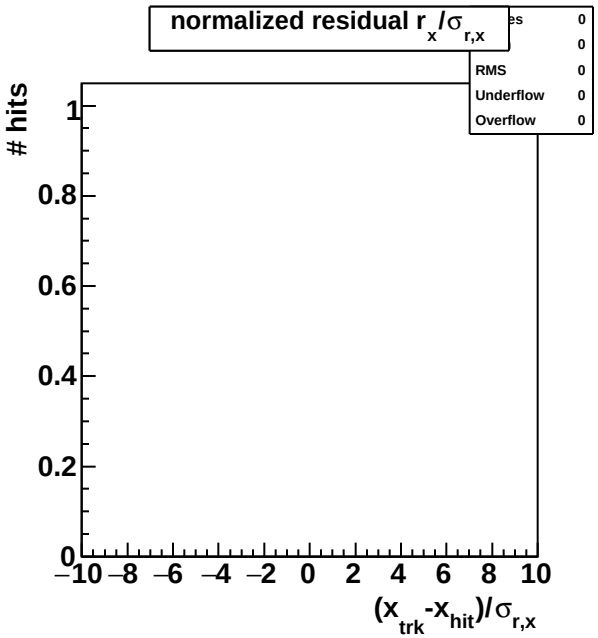

hits used
Entries 10
Mean 44.17
RMS 17.66
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

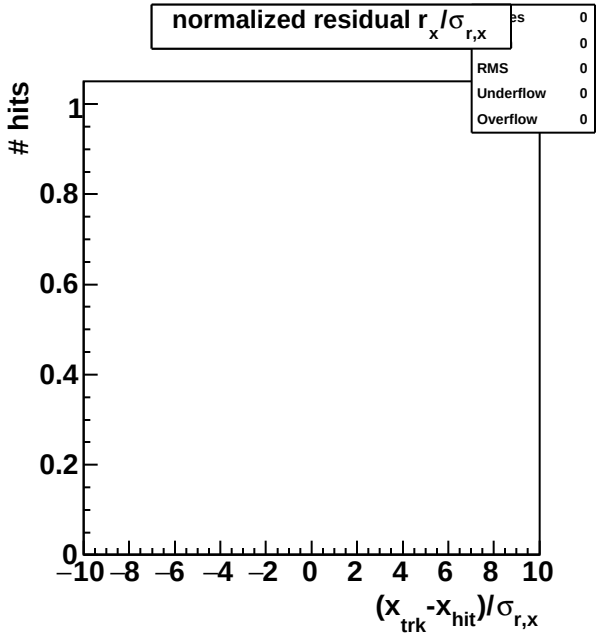
Sector_55/ -- TecPlusRing1Rphi

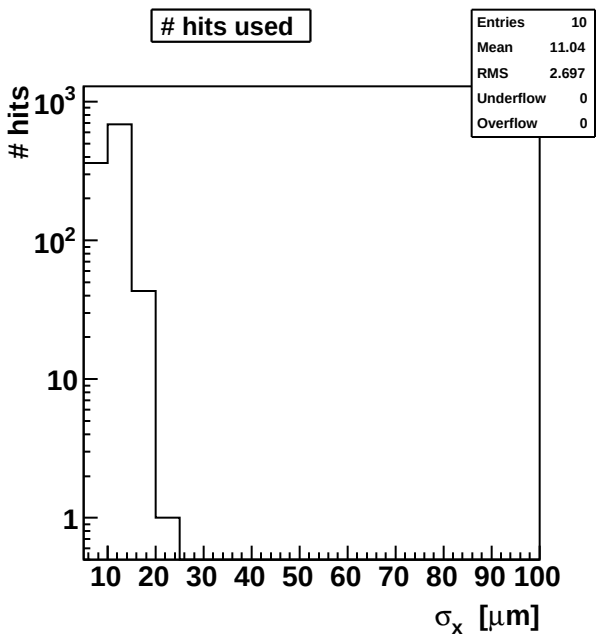

normalized residual r_x/σ_r,x
362
− 0.005951
RMS 0.9941
Underflow 0
Overflow 0
hits
(x_trk-x_hit)/σ_r,x
682
− 0.01174
RMS 1.039
Underflow 0
Overflow 0
43
−0.3284
RMS 0.8591
Underflow 0
Overflow 0
1
1.208
RMS 0
Underflow 0
Overflow 0
0
0
RMS 0
Underflow 0
Overflow 0
0
0
RMS 0
Underflow 0
Overflow 0


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

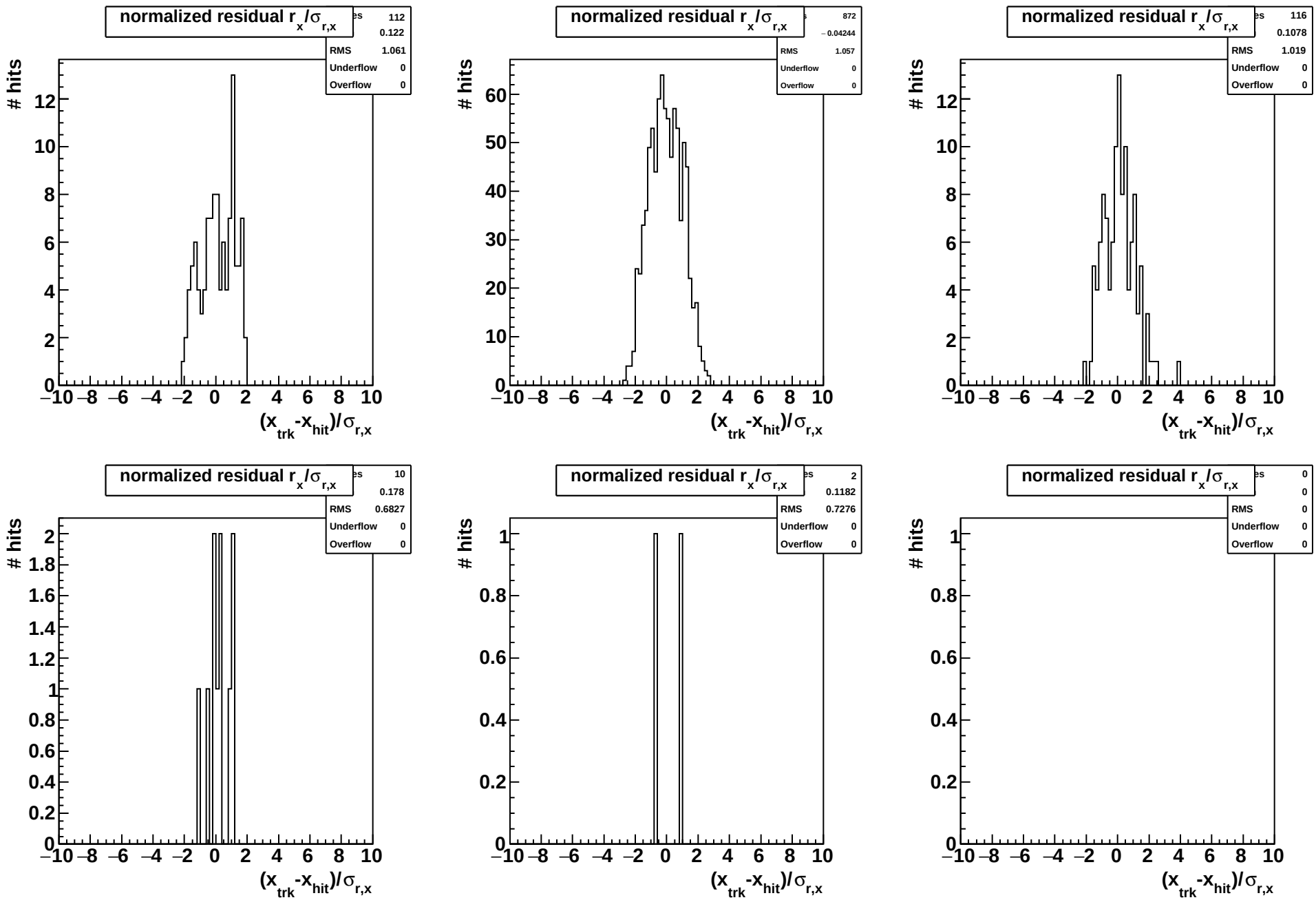

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

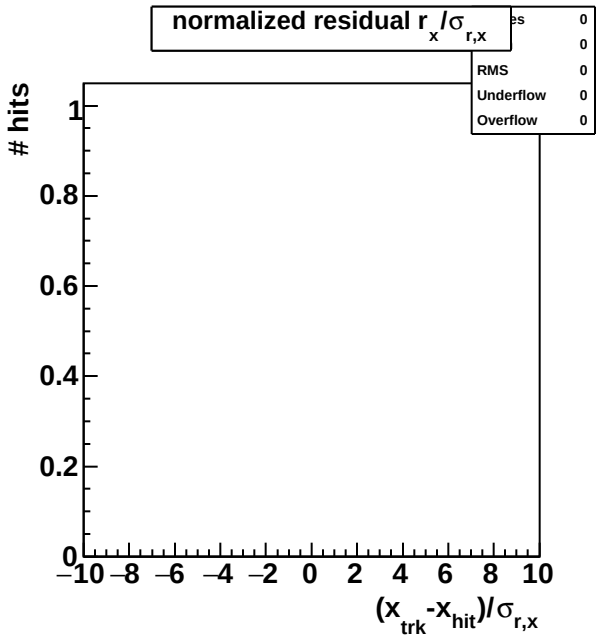

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

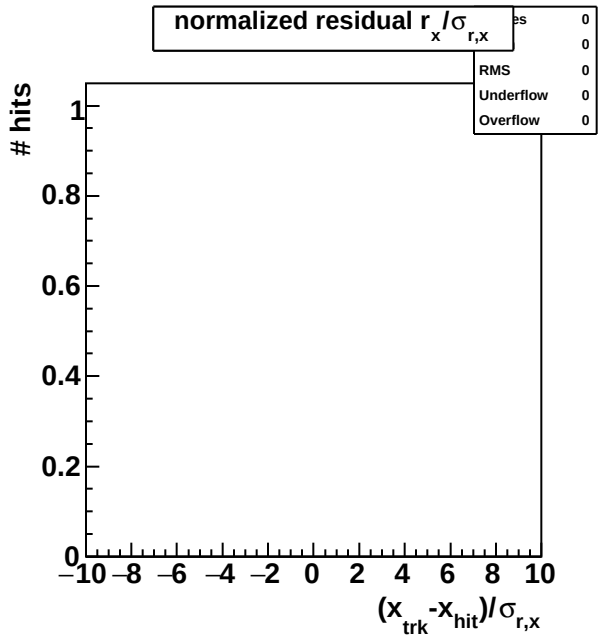

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

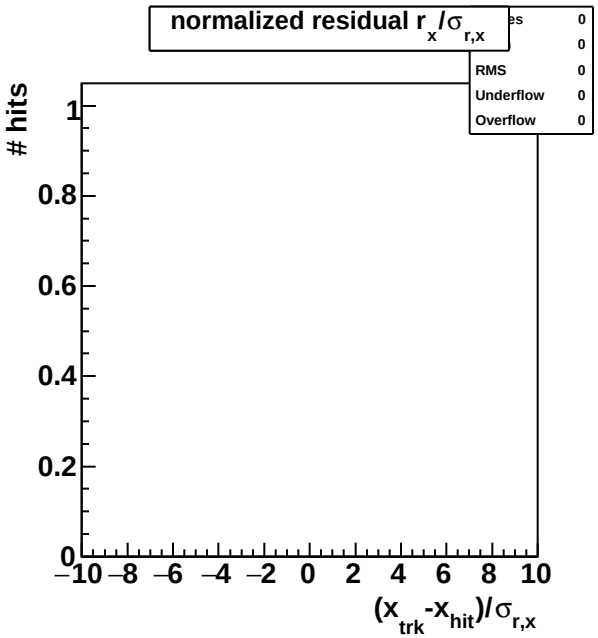

hits used
Entries 10
Mean 11.04
RMS 2.697
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

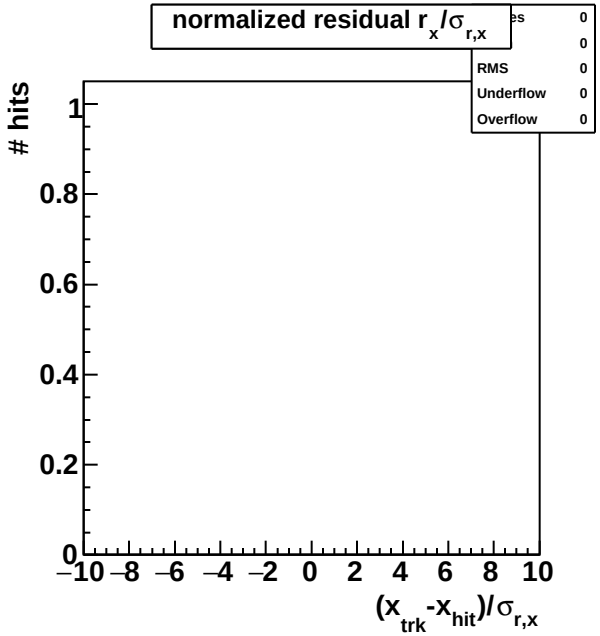
Sector_56/ -- TecPlusRing1Stereo

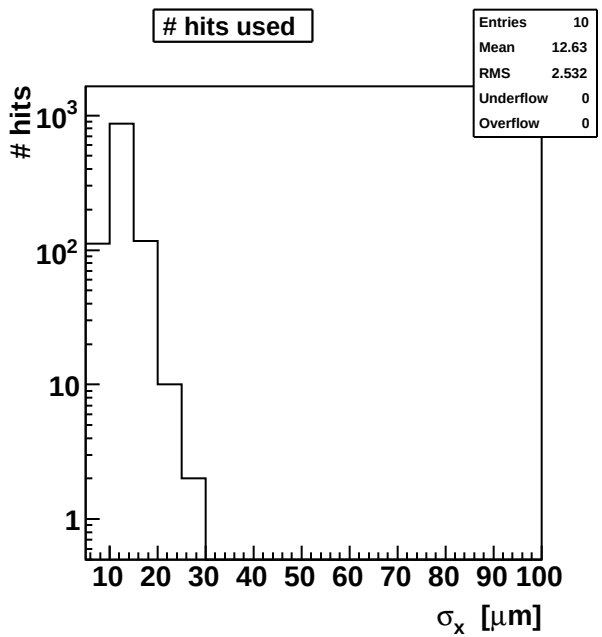

normalized residual $r_x/\sigma_{r,x}$
112
0.122
RMS 1.061
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
872
− 0.04244
RMS 1.057
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
116
0.1078
RMS 1.019
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
10
0.178
RMS 0.6827
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2
0.1182
RMS 0.7276
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

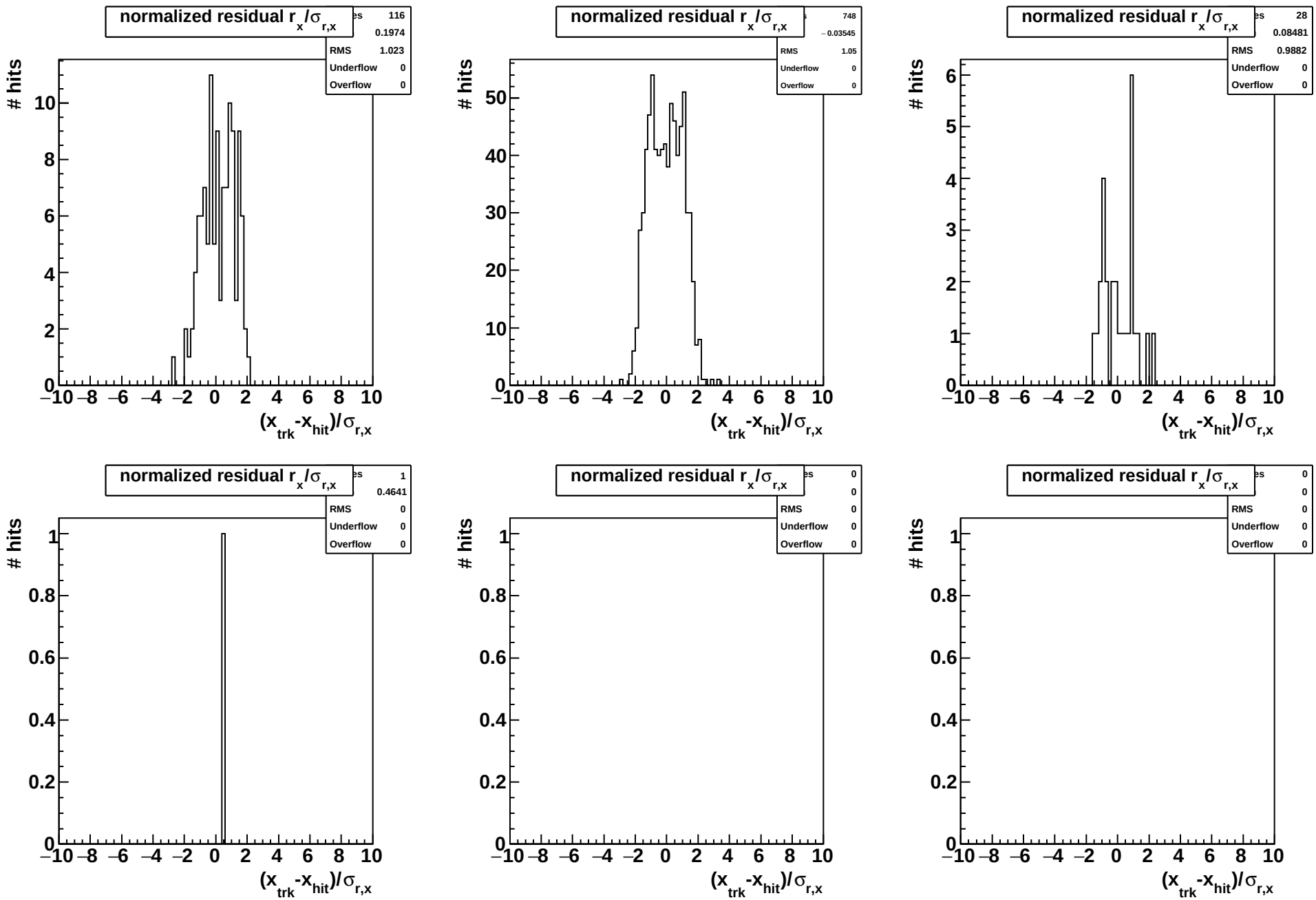

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

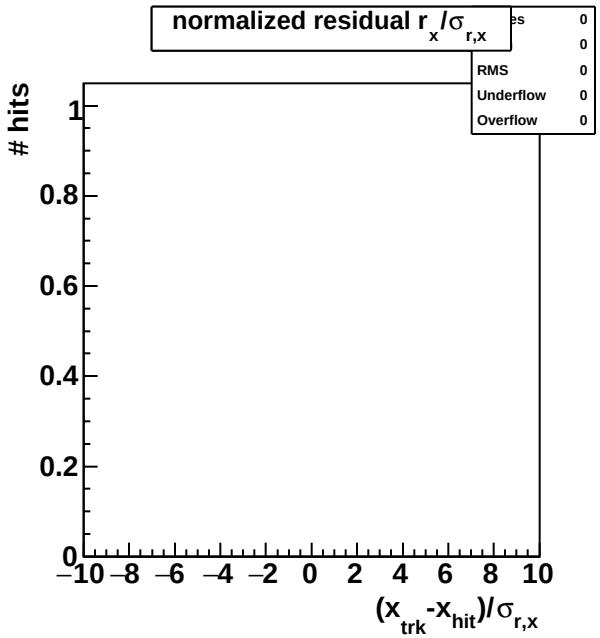

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

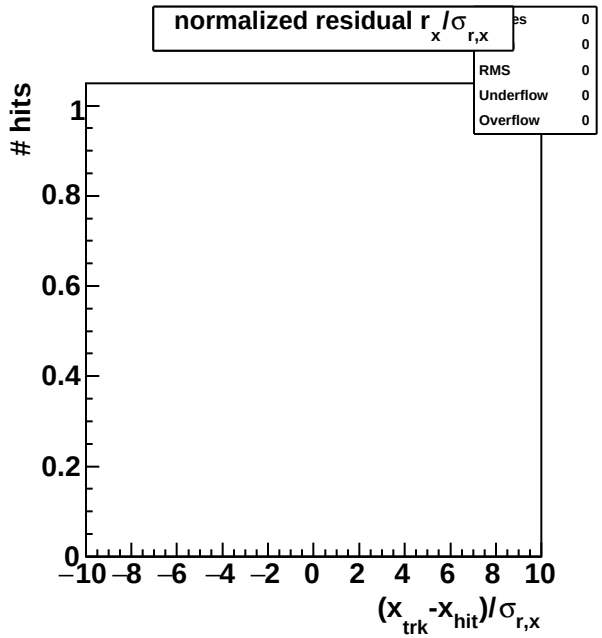

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

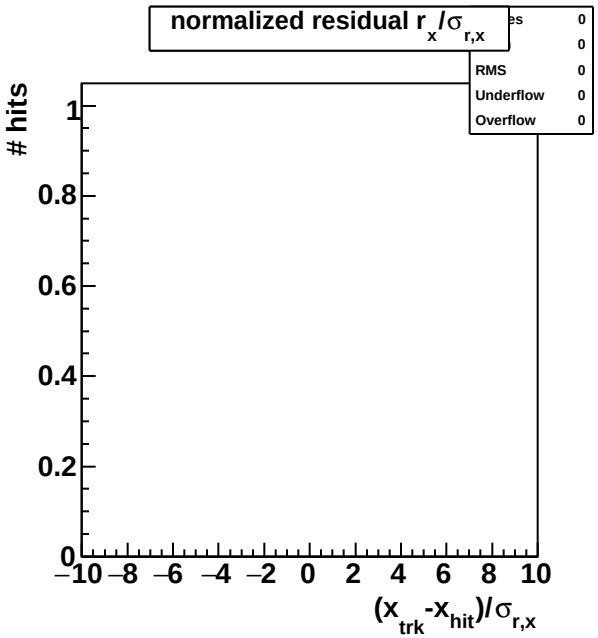

hits used
Entries 10
Mean 12.63
RMS 2.532
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

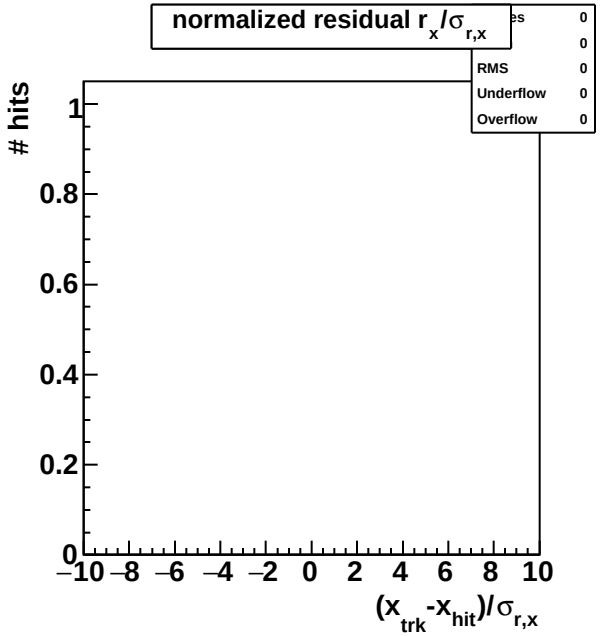
Sector_57/ -- TecPlusRing2Rphi

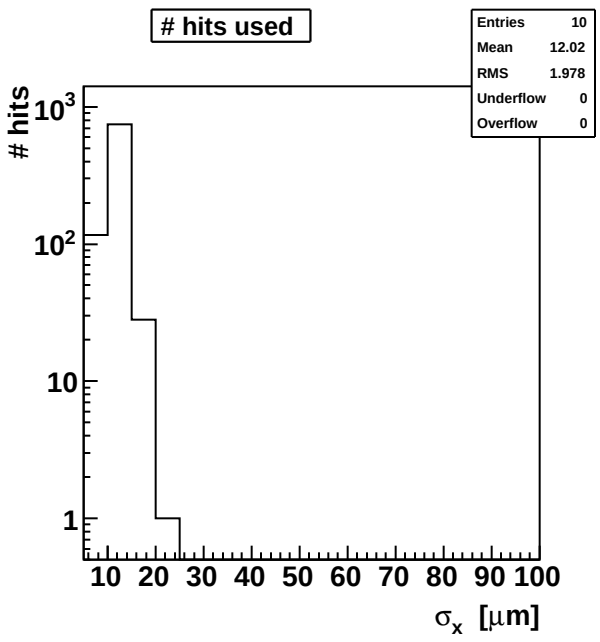

normalized residual $r_x/\sigma_{r,x}$
116
0.1974
RMS 1.023
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
748
− 0.03545
RMS 1.05
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
28
0.08481
RMS 0.9882
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1
0.4641
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

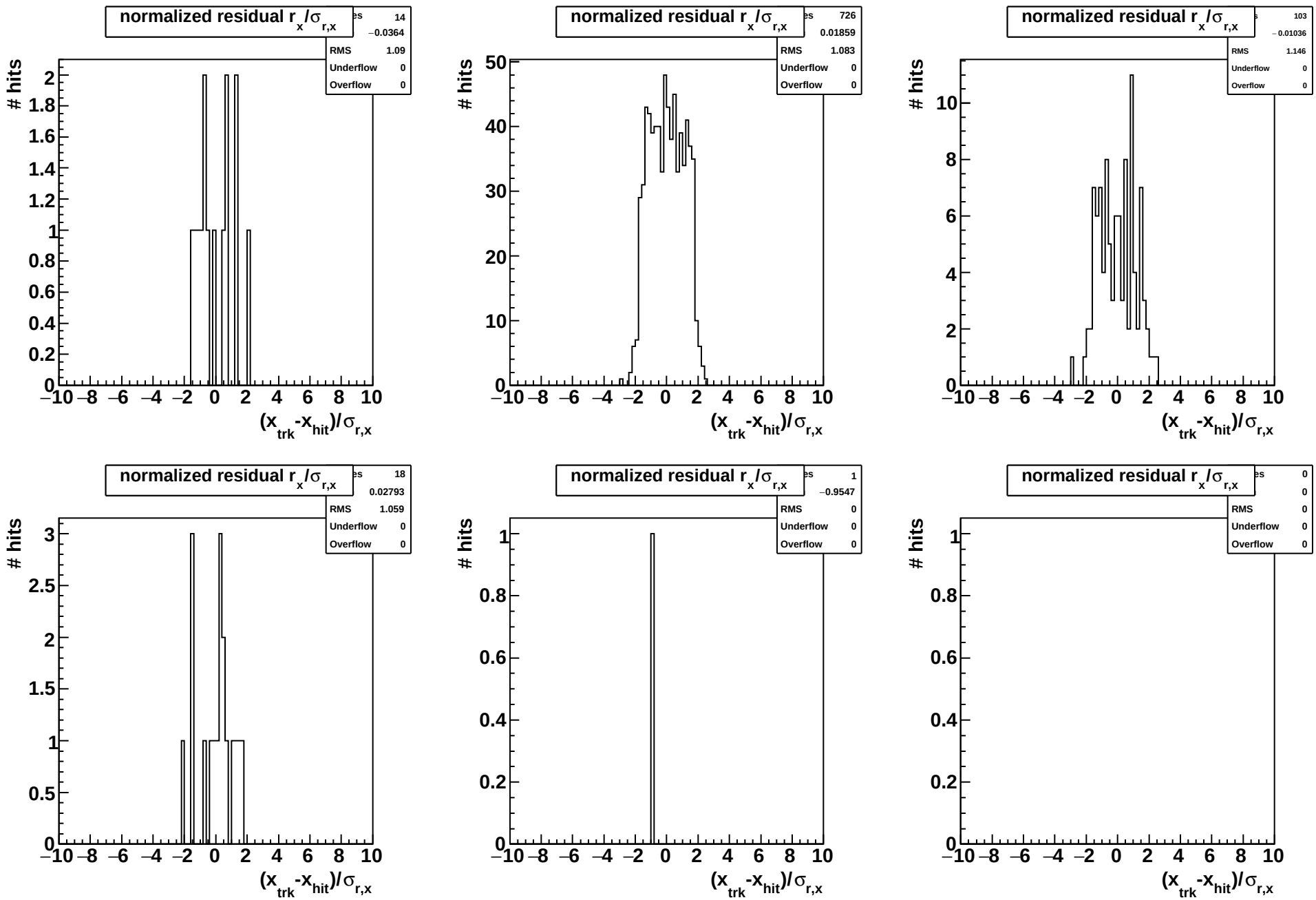

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

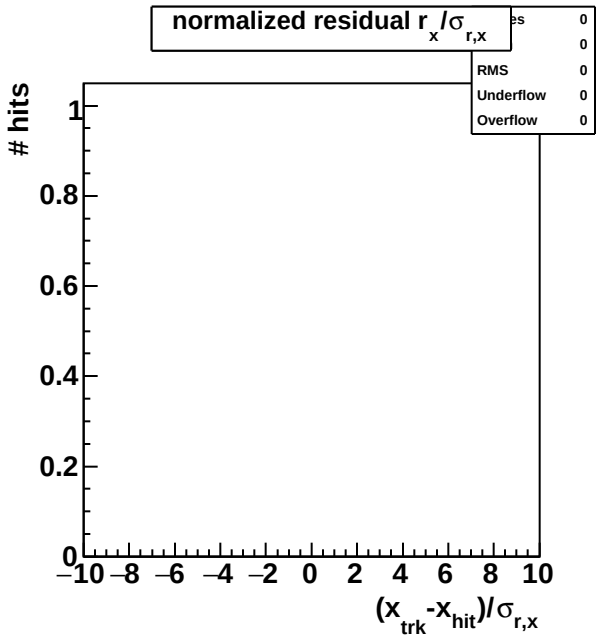

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

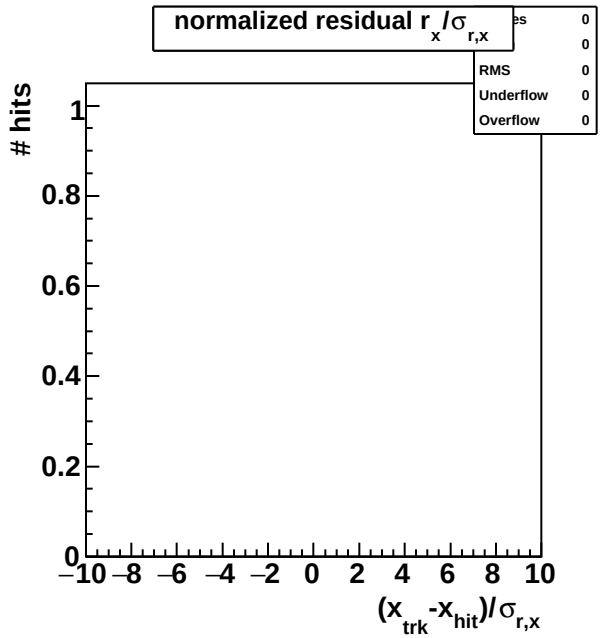

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

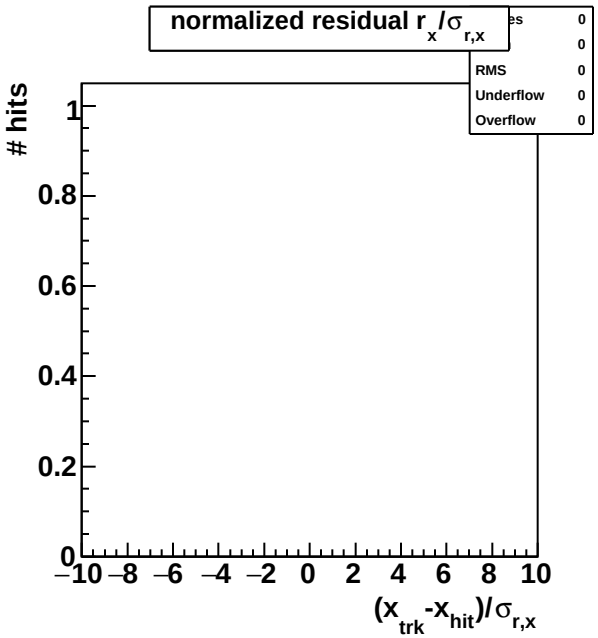

hits used
Entries 10
Mean 12.02
RMS 1.978
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

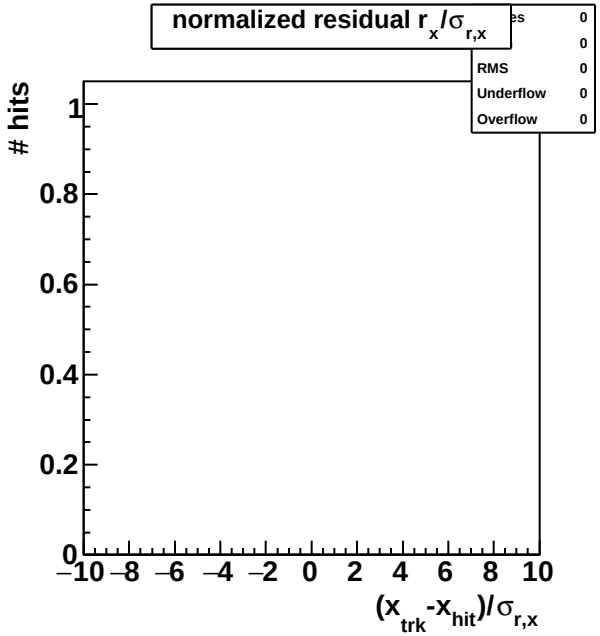
Sector_58/ -- TecPlusRing2Stereo

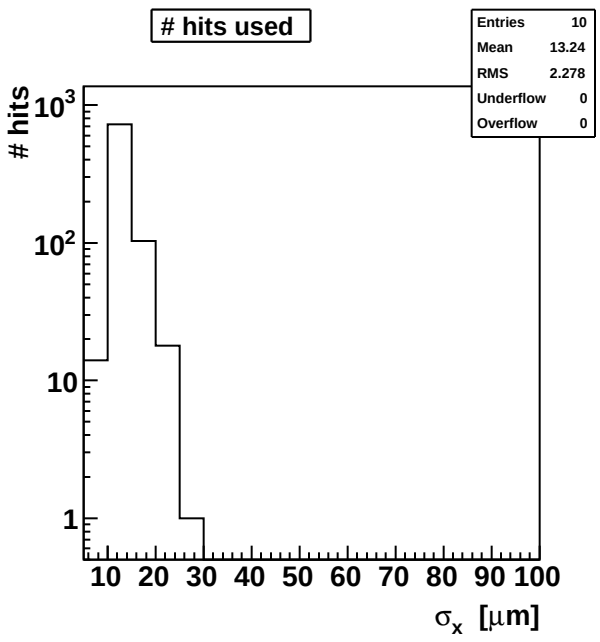

normalized residual $r_x/\sigma_{r,x}$
14
−0.0364
RMS 1.09
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
726
0.01859
RMS 1.083
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
103
−0.01036
RMS 1.146
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
18
0.02793
RMS 1.059
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1
−0.9547
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

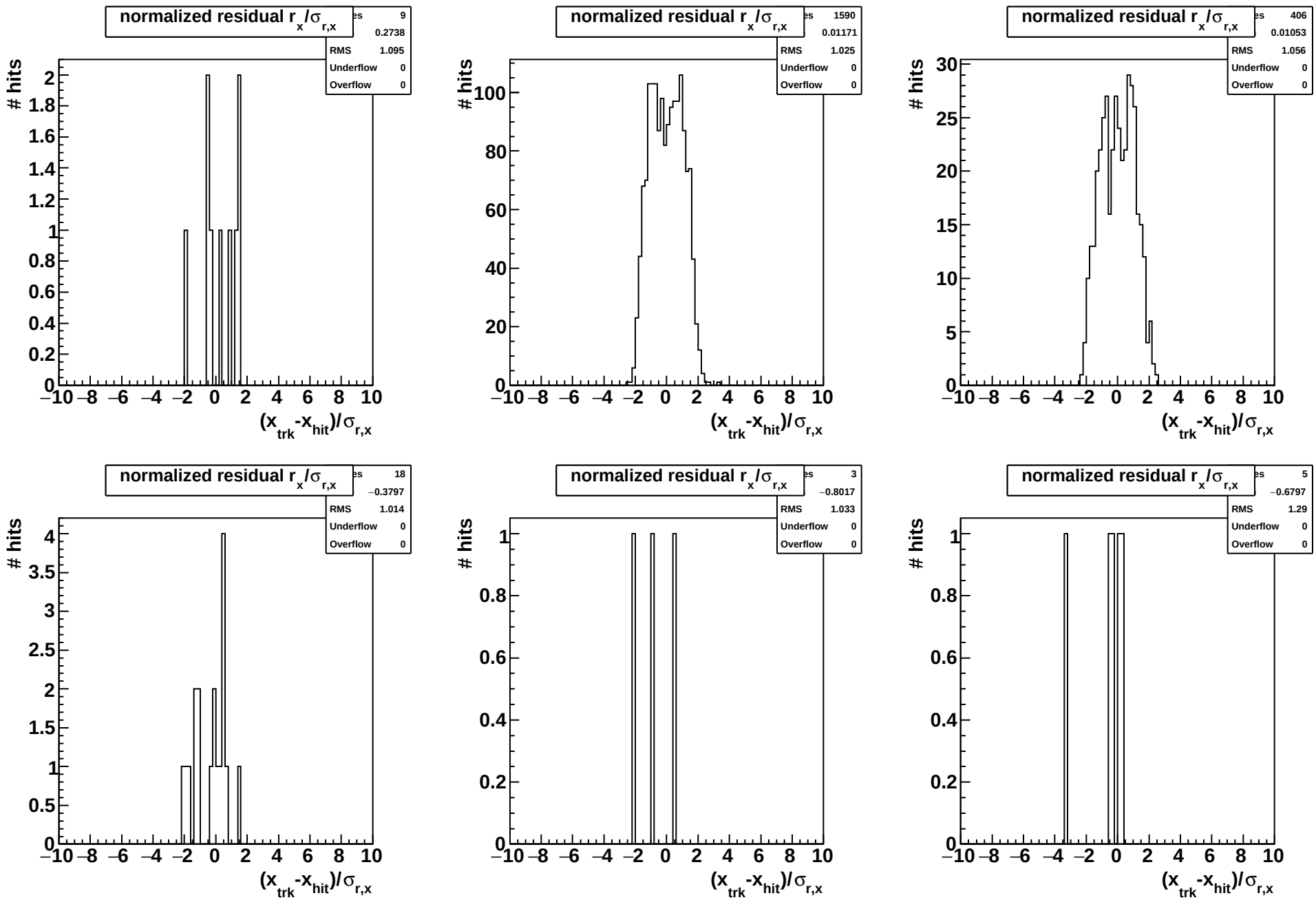

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

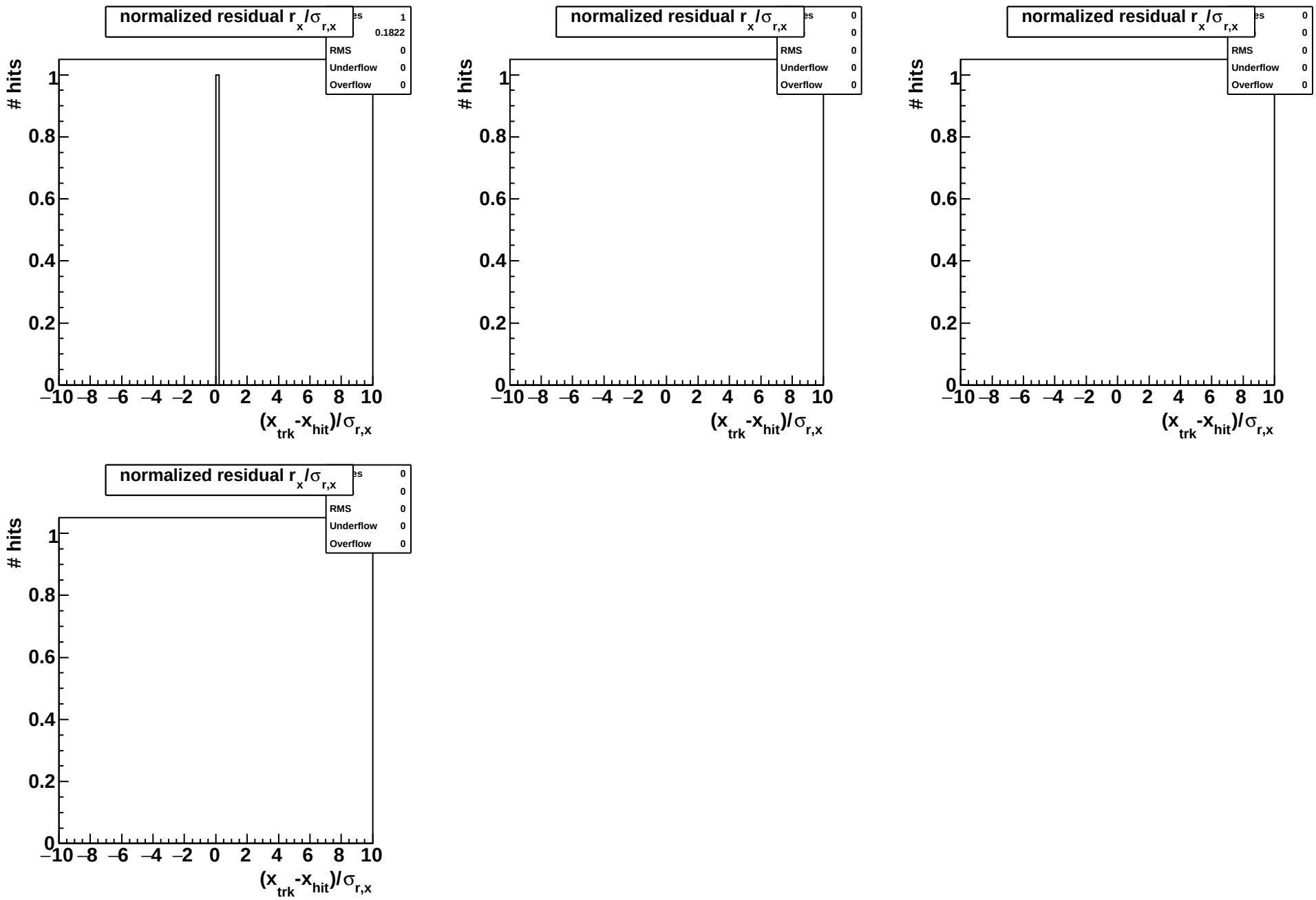

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

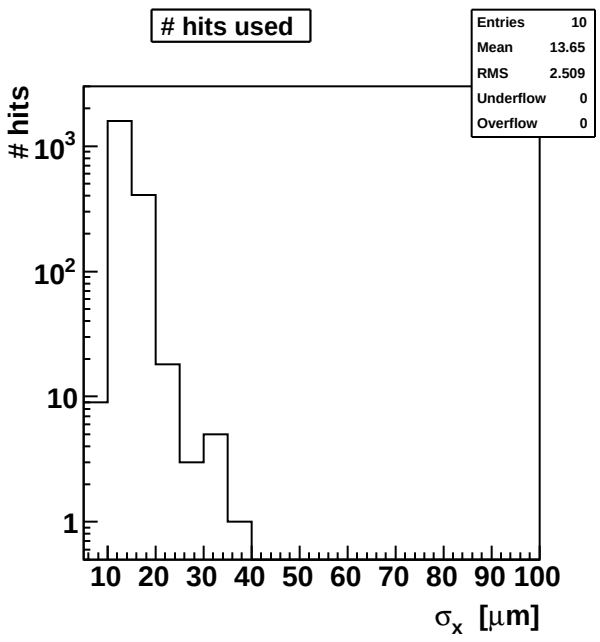

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 13.24
RMS 2.278
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

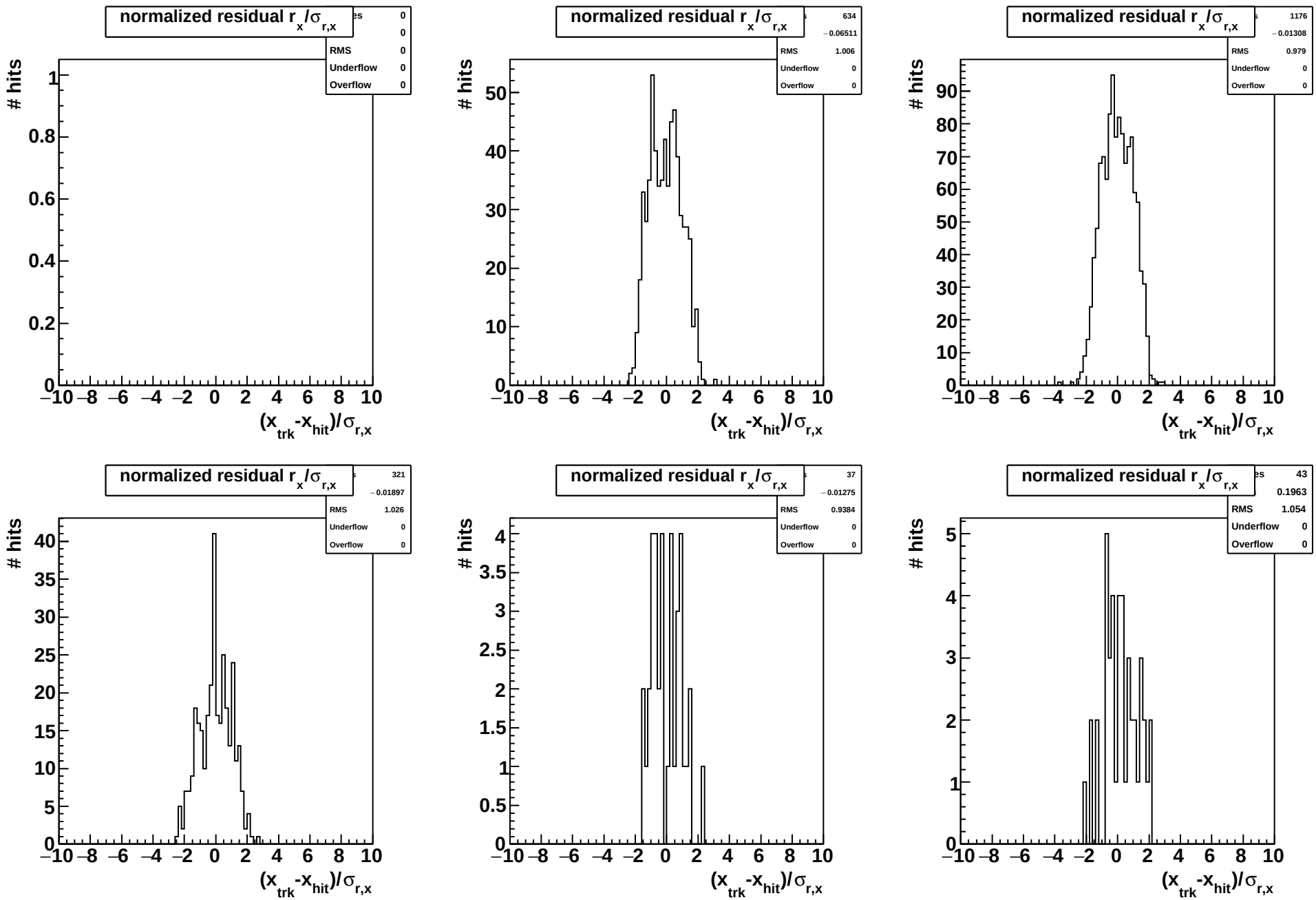
Sector_59/ -- TecPlusRing3

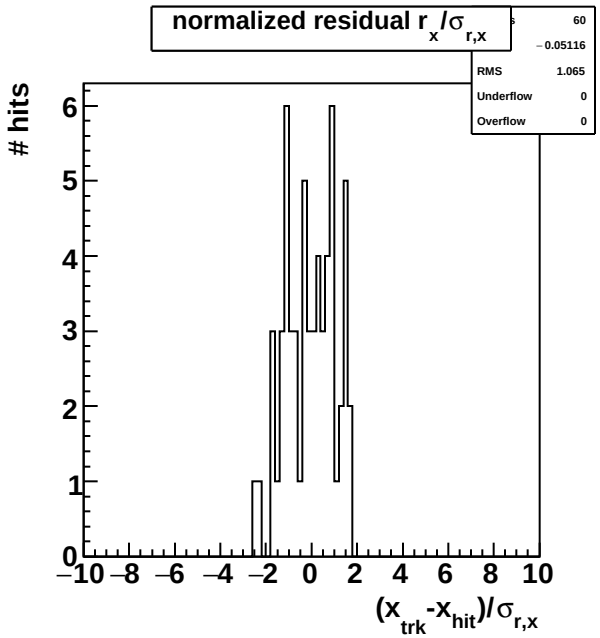

normalized residual $r_x/\sigma_{r,x}$
es 9
0.2738
RMS 1.095
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 1590
0.01171
RMS 1.025
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 406
0.01053
RMS 1.056
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 18
−0.3797
RMS 1.014
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 3
−0.8017
RMS 1.033
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 5
−0.6797
RMS 1.29
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

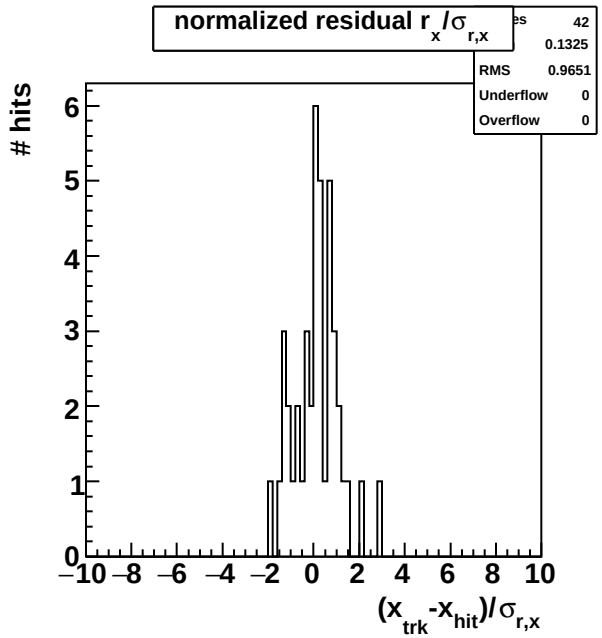

normalized residual $r_x/\sigma_{r,x}$
es 1
0.1822
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
es 0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

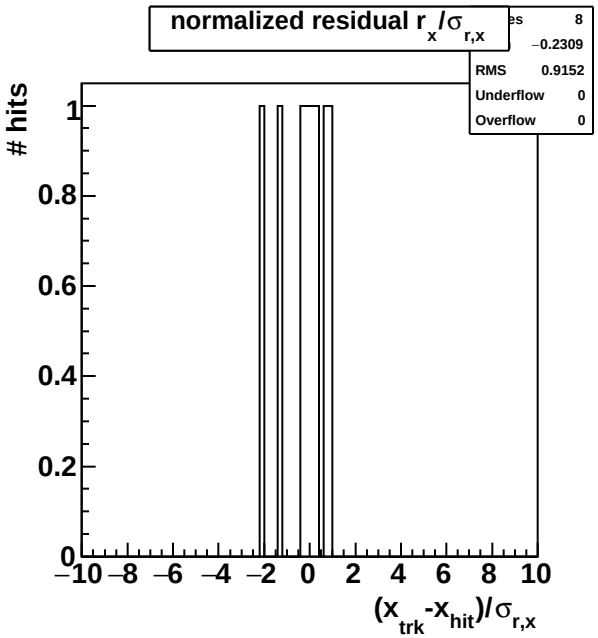

hits used
Entries 10
Mean 13.65
RMS 2.509
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

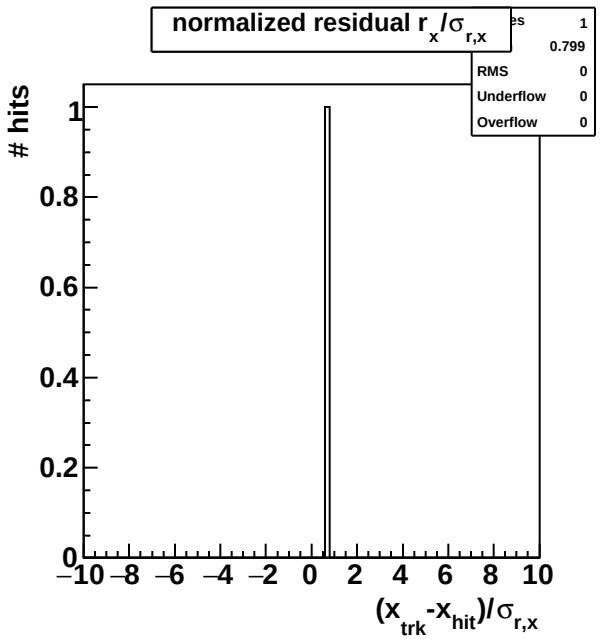
Sector_60/ -- TecPlusRing4

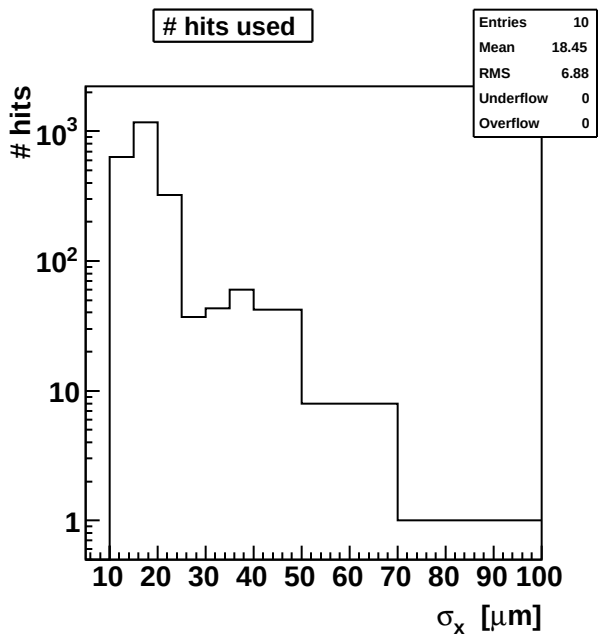

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
634
− 0.06511
RMS 1.006
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1176
− 0.01308
RMS 0.979
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
321
− 0.01897
RMS 1.026
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
37
− 0.01275
RMS 0.9384
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
43
0.1963
RMS 1.054
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
60
−0.05116
RMS 1.065
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

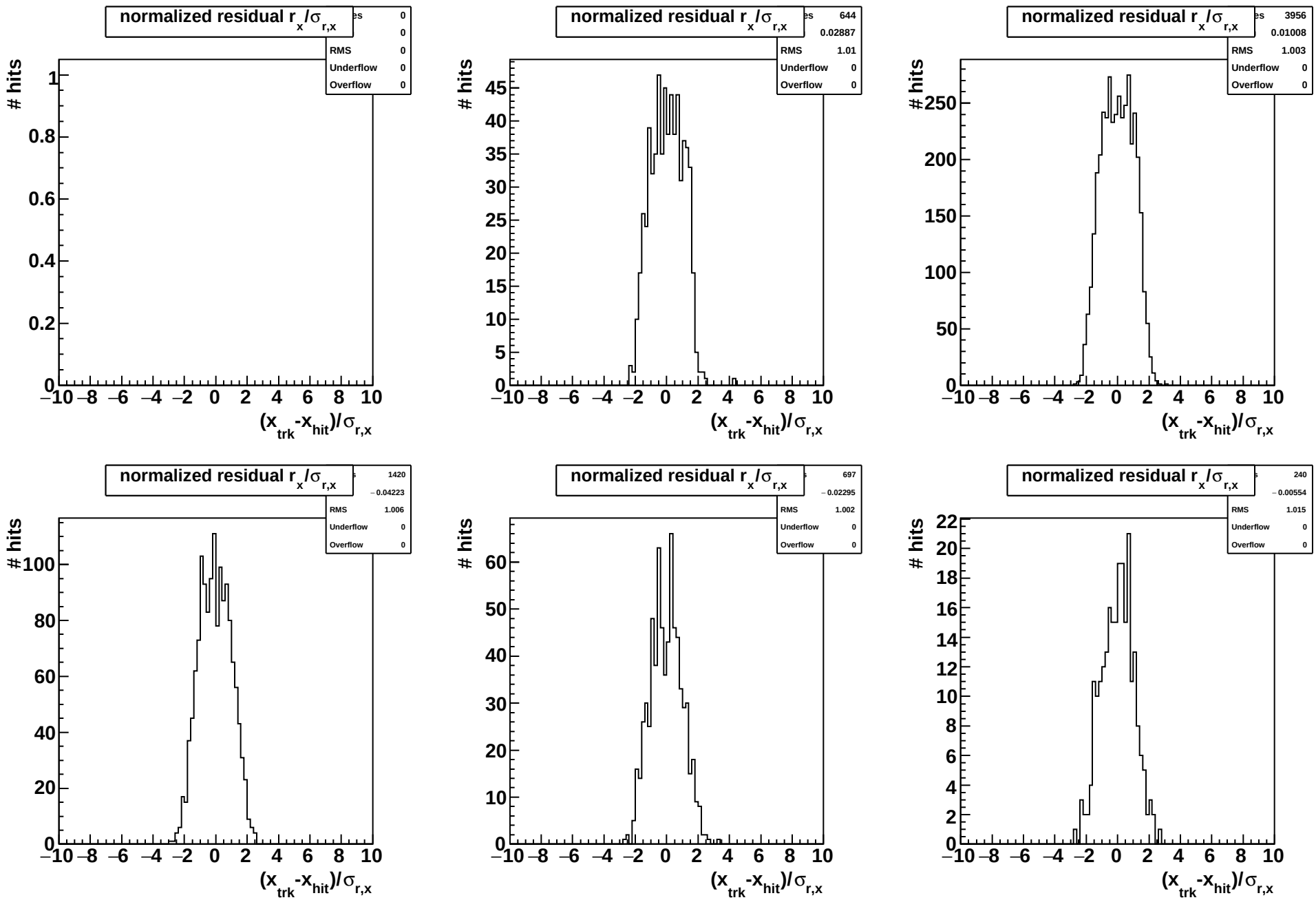

normalized residual $r_x/\sigma_{r,x}$
42
0.1325
RMS 0.9651
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

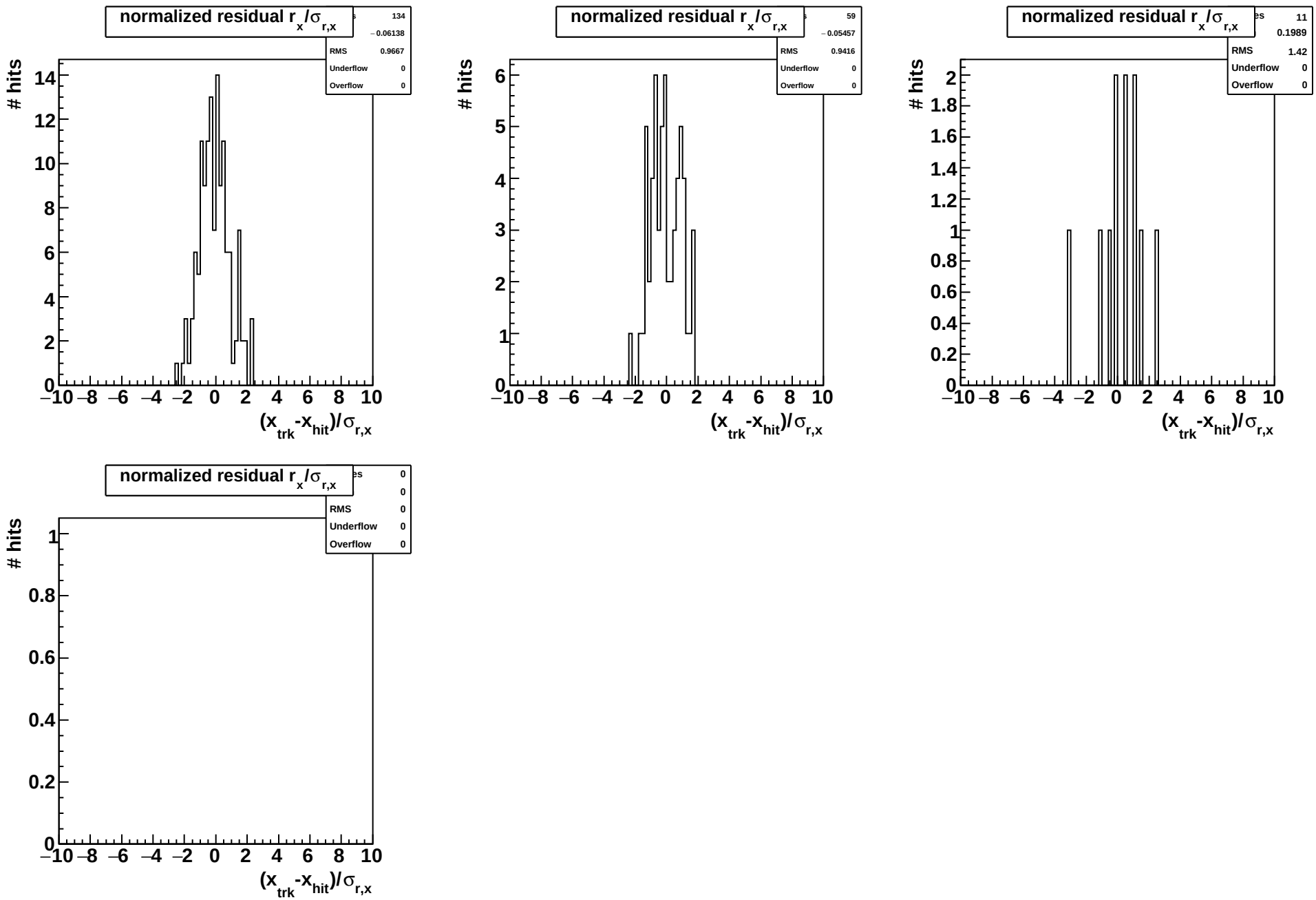

normalized residual $r_x/\sigma_{r,x}$
8
−0.2309
RMS 0.9152
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

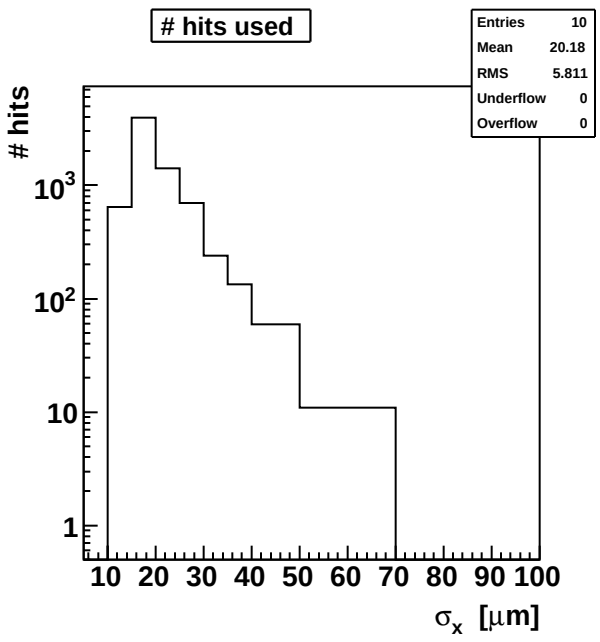

normalized residual $r_x/\sigma_{r,x}$
1
0.799
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 18.45
RMS 6.88
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

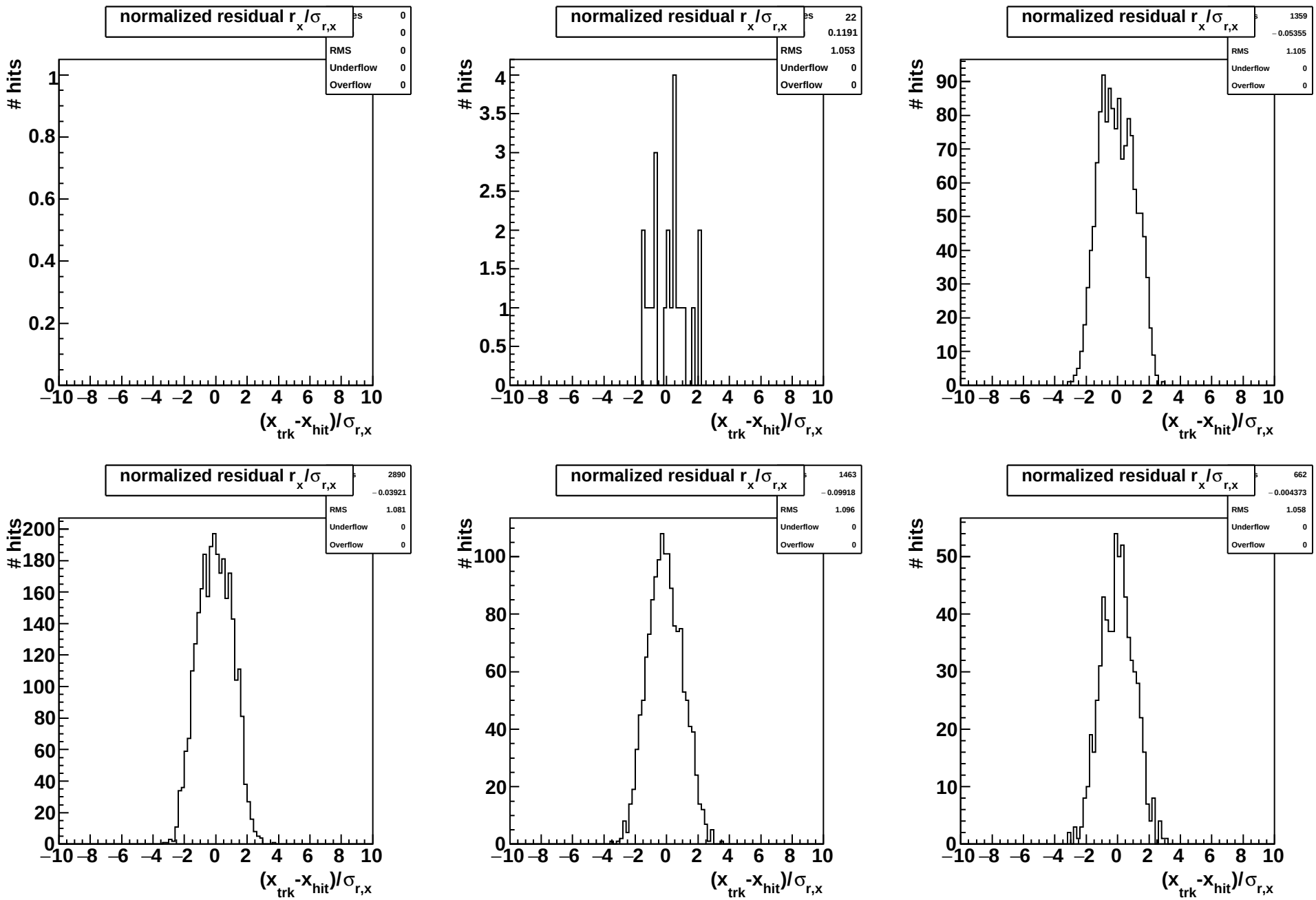
Sector_61/ -- TecPlusRing5Rphi

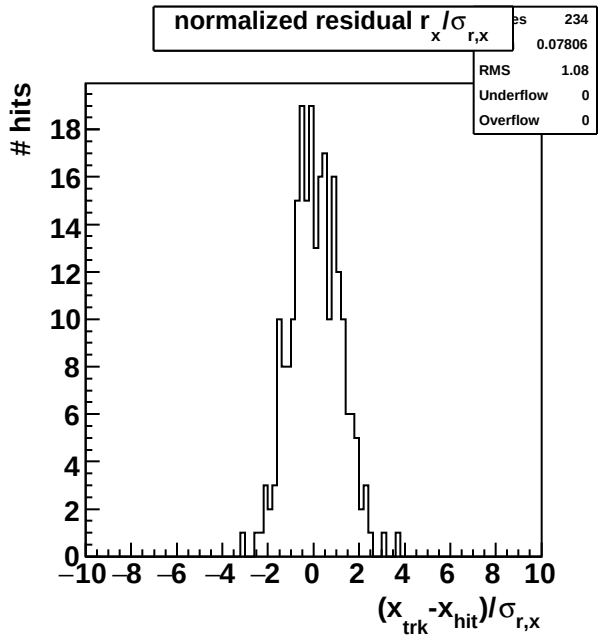

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
644
0.02887
RMS 1.01
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
3956
0.01008
RMS 1.003
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1420
− 0.04223
RMS 1.006
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
697
− 0.02295
RMS 1.002
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
240
− 0.00554
RMS 1.015
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

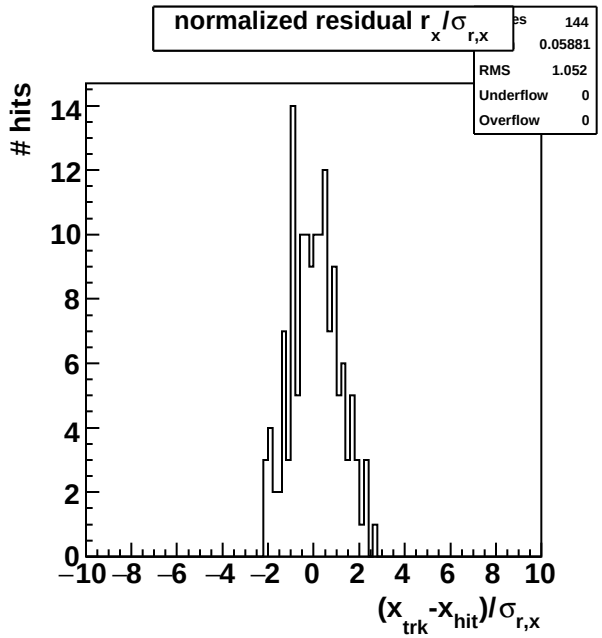

normalized residual $r_x/\sigma_{r,x}$
134
−0.06138
RMS 0.9667
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
59
−0.05457
RMS 0.9416
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
11
0.1989
RMS 1.42
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
0
0
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

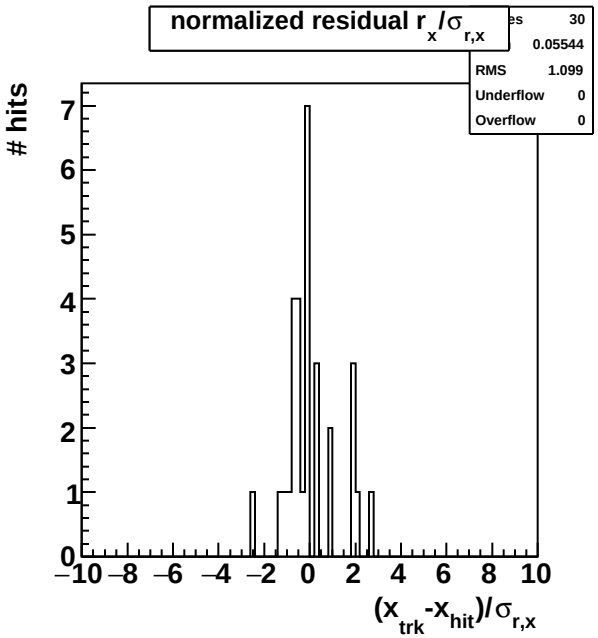

hits used
Entries 10
Mean 20.18
RMS 5.811
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

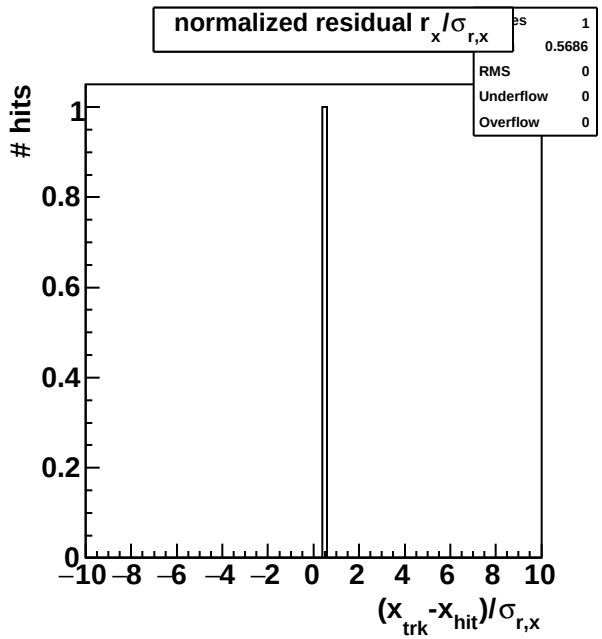
Sector_62/ -- TecPlusRing5Stereo

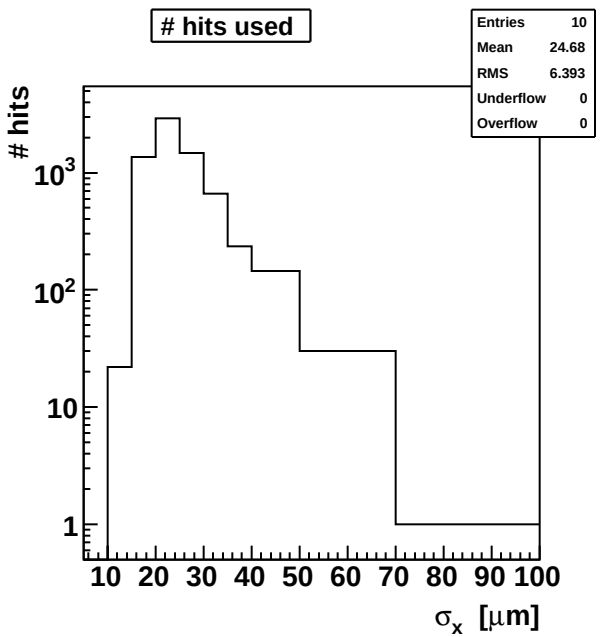

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
22
0.1191
RMS 1.053
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1359
− 0.05355
RMS 1.105
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
2890
− 0.03921
RMS 1.081
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1463
− 0.09918
RMS 1.096
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
662
− 0.004373
RMS 1.058
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
es 234
0.07806
RMS 1.08
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

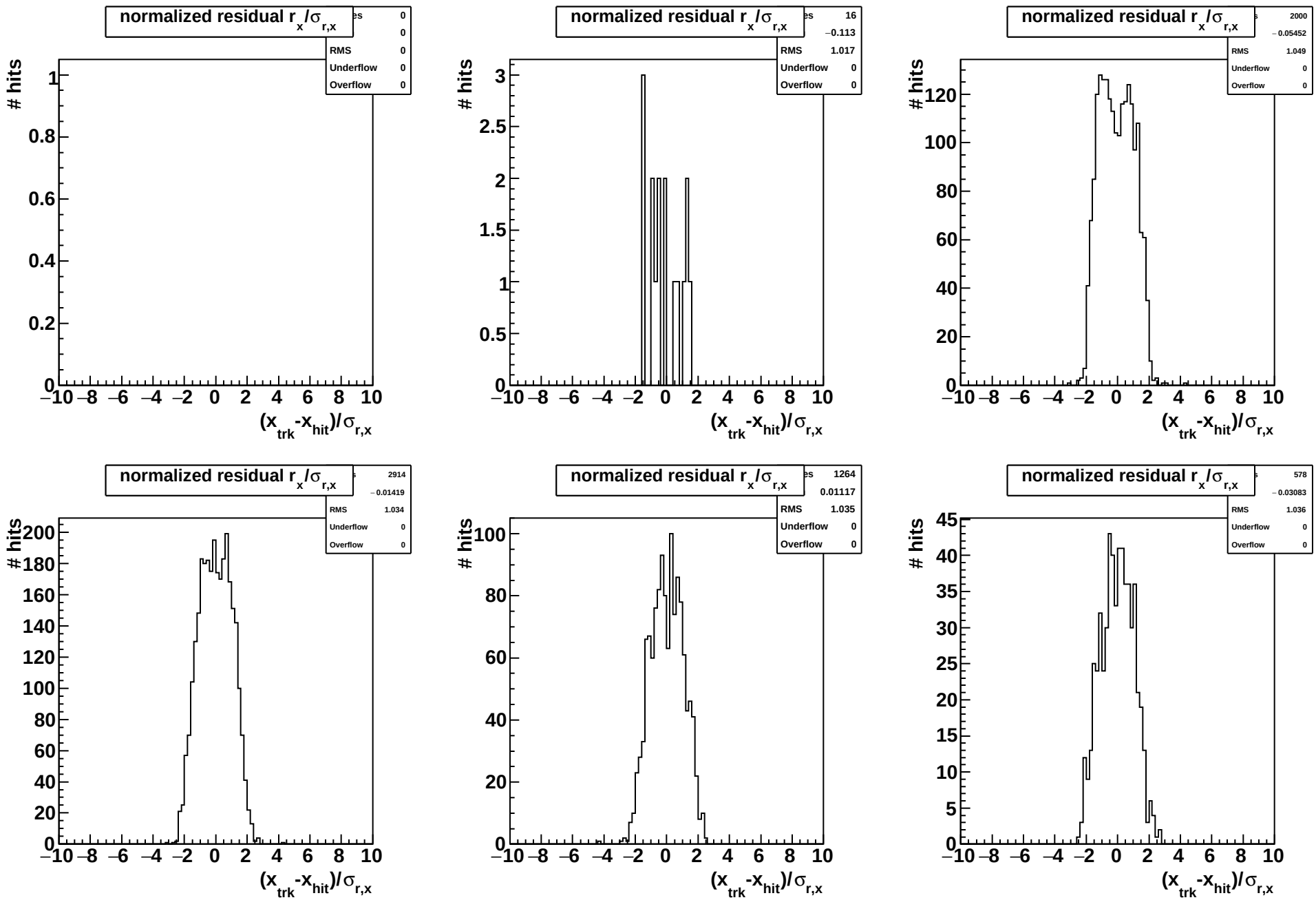

normalized residual $r_x/\sigma_{r,x}$
es 144
0.05881
RMS 1.052
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

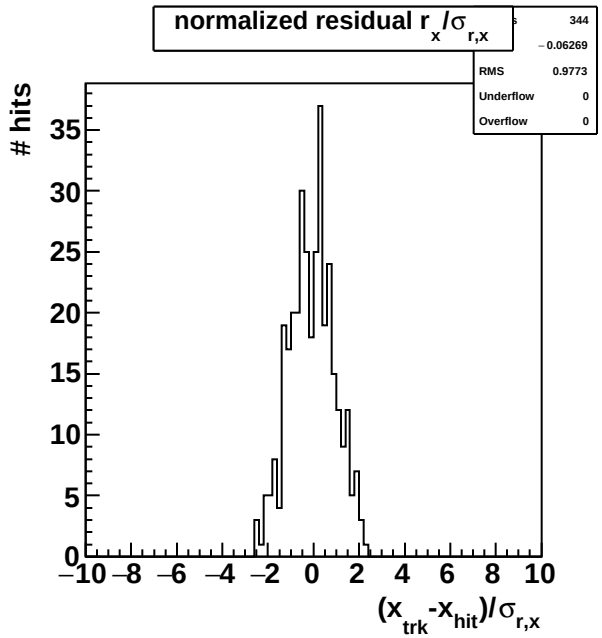

normalized residual $r_x/\sigma_{r,x}$
es 30
0.05544
RMS 1.099
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

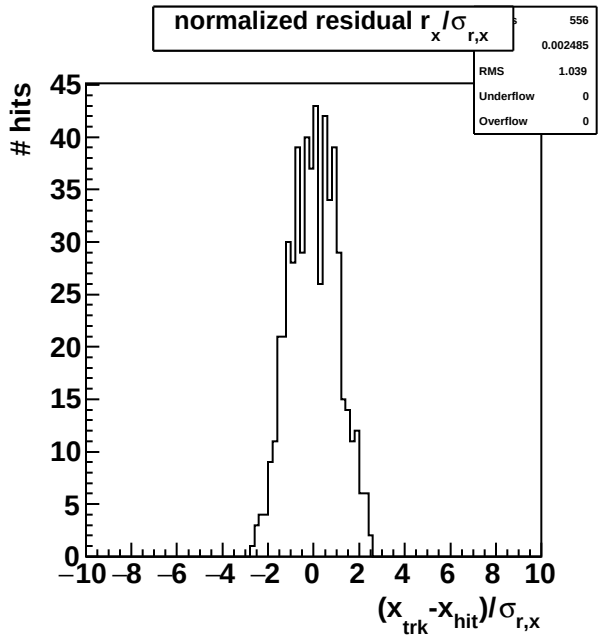

normalized residual $r_x/\sigma_{r,x}$
es 1
0.5686
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

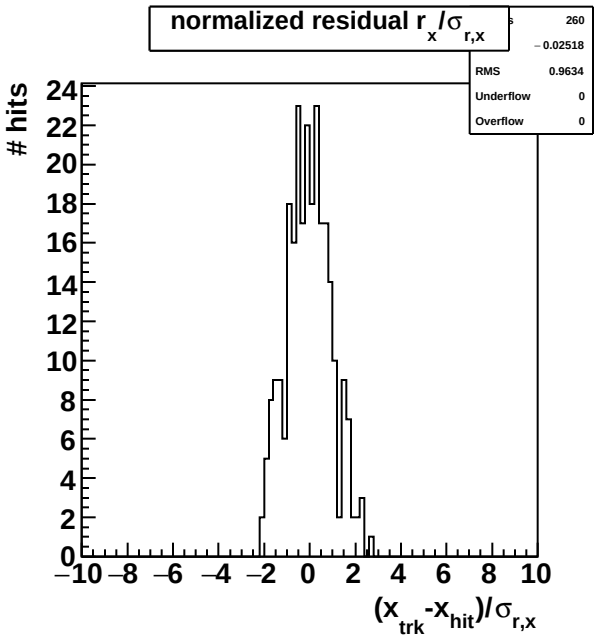

hits used
Entries 10
Mean 24.68
RMS 6.393
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

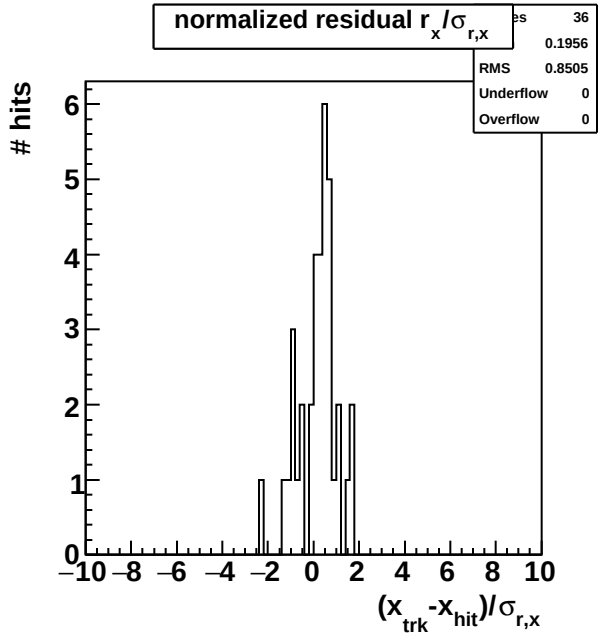
Sector_63/ -- TecPlusRing6

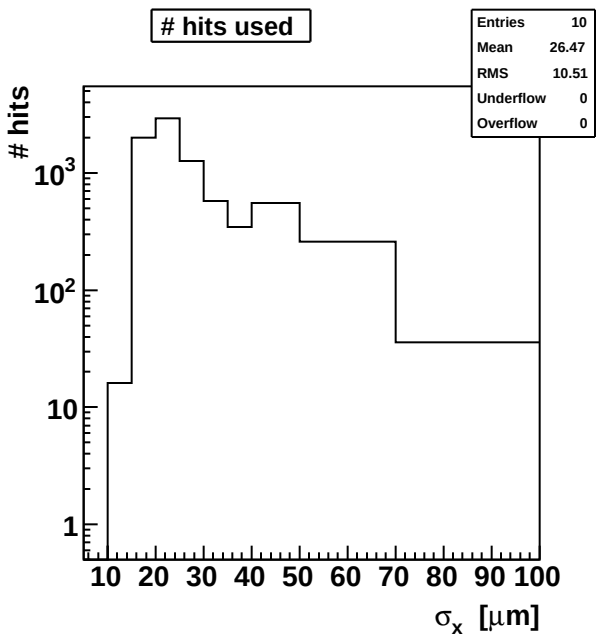

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
16
−0.113
RMS 1.017
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2000
− 0.05452
RMS 1.049
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
2914
− 0.01419
RMS 1.034
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
1264
0.01117
RMS 1.035
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$
normalized residual $r_x/\sigma_{r,x}$
578
− 0.03083
RMS 1.036
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
344
−0.06269
RMS 0.9773
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

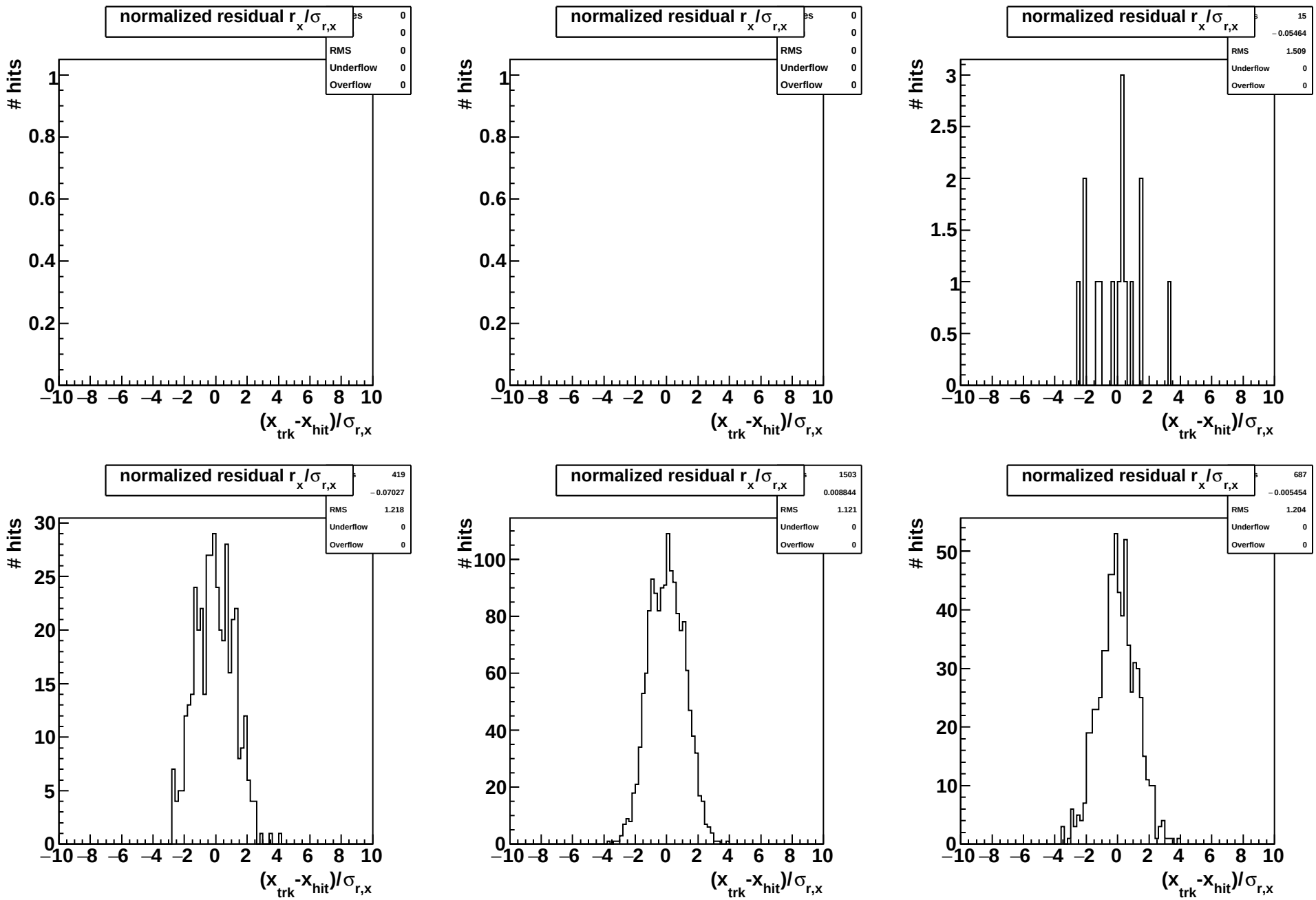

normalized residual $r_x/\sigma_{r,x}$
556
0.002485
RMS 1.039
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

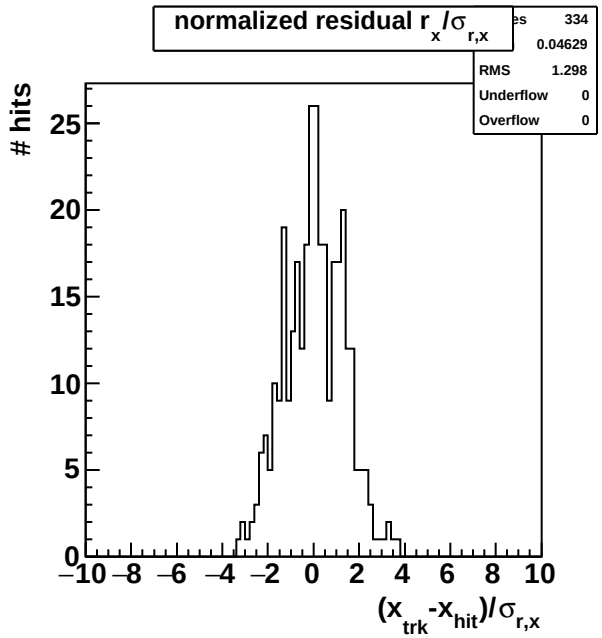

normalized residual $r_x/\sigma_{r,x}$
260
−0.02518
RMS 0.9634
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

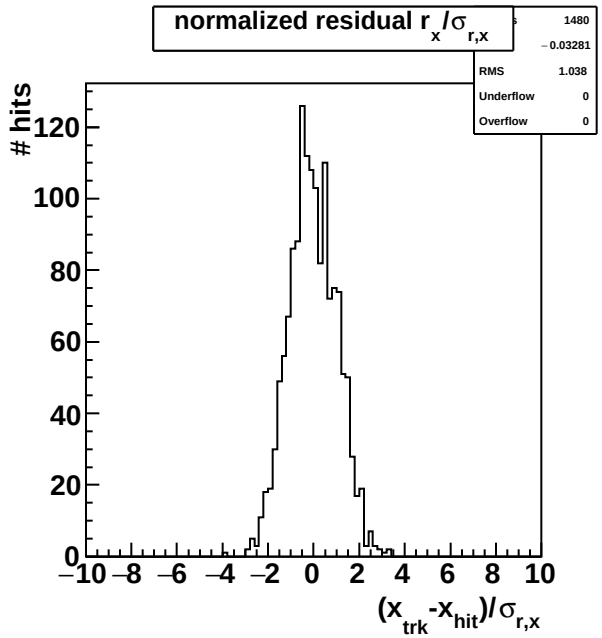

normalized residual $r_x/\sigma_{r,x}$
36
0.1956
RMS 0.8505
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$

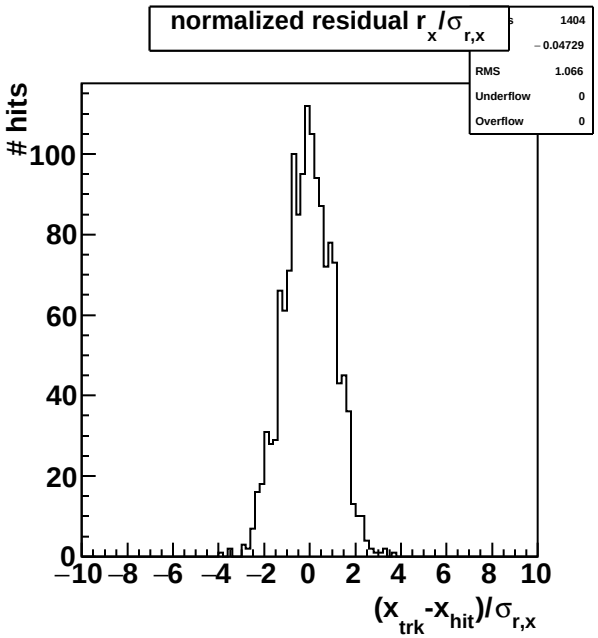

hits used
Entries 10
Mean 26.47
RMS 10.51
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]

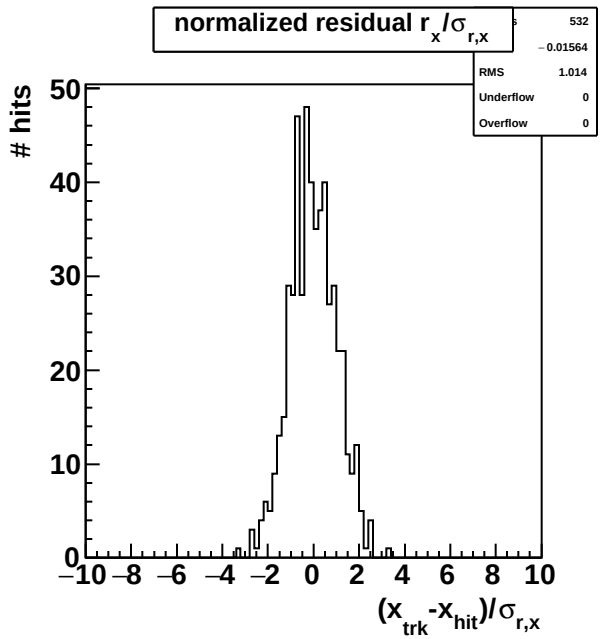
Sector_64/ -- TecPlusRing7

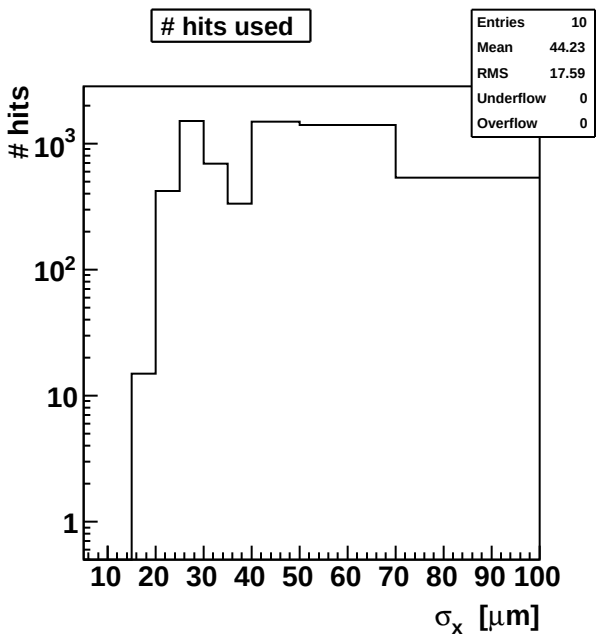

normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
RMS 0
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
15
− 0.05464
RMS 1.509
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
419
− 0.07027
RMS 1.218
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
1503
0.008844
RMS 1.121
Underflow 0
Overflow 0
normalized residual $r_x/\sigma_{r,x}$
687
− 0.005454
RMS 1.204
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
334
0.04629
RMS 1.298
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
1480
−0.03281
RMS 1.038
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
1404
−0.04729
RMS 1.066
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


normalized residual $r_x/\sigma_{r,x}$
532
−0.01564
RMS 1.014
Underflow 0
Overflow 0
hits
$(x_{trk}-x_{hit})/\sigma_{r,x}$


hits used
Entries 10
Mean 44.23
RMS 17.59
Underflow 0
Overflow 0
hits
10^3
10^2
10
1
10 20 30 40 50 60 70 80 90 100
σ_x [μm]