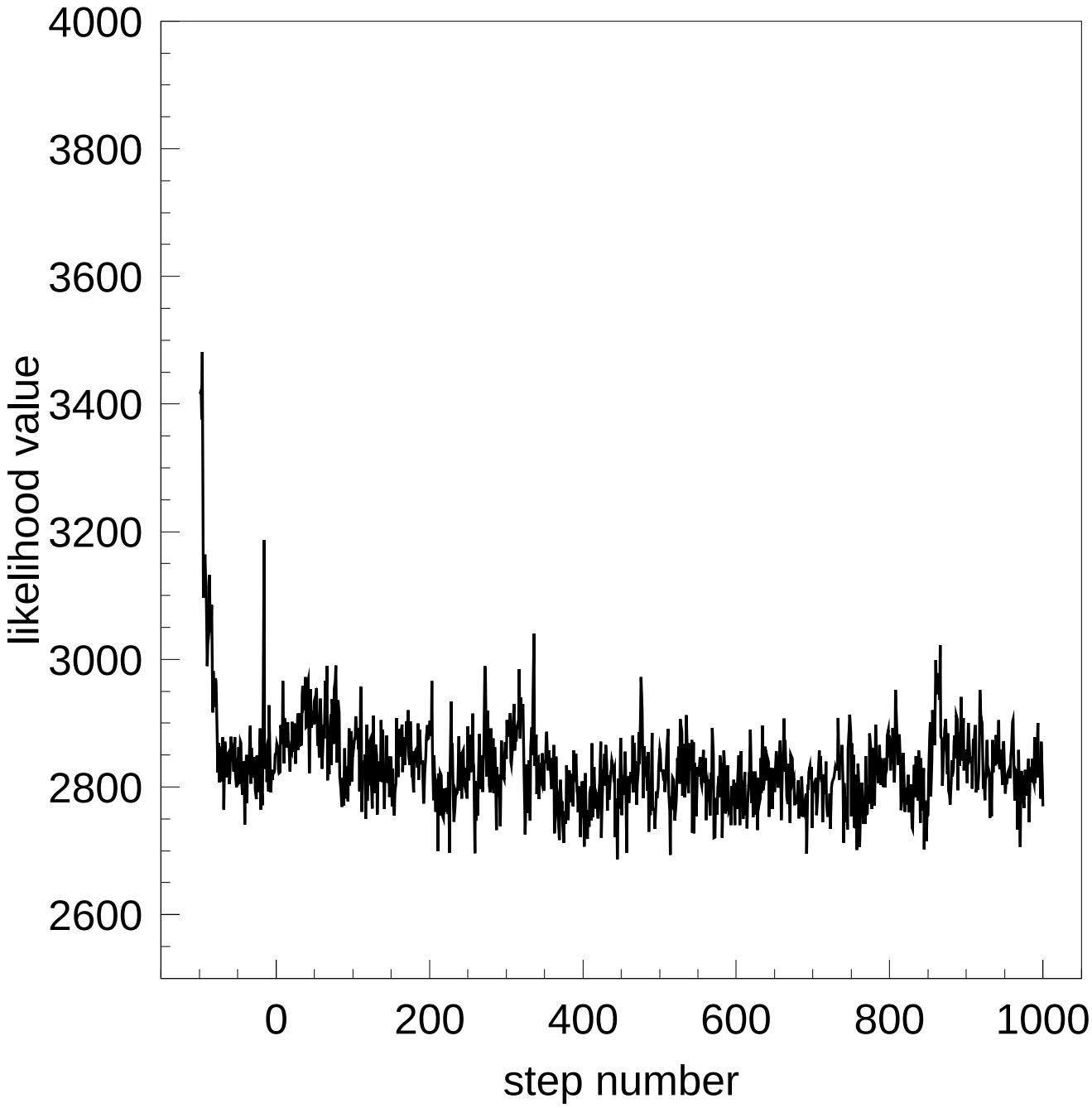
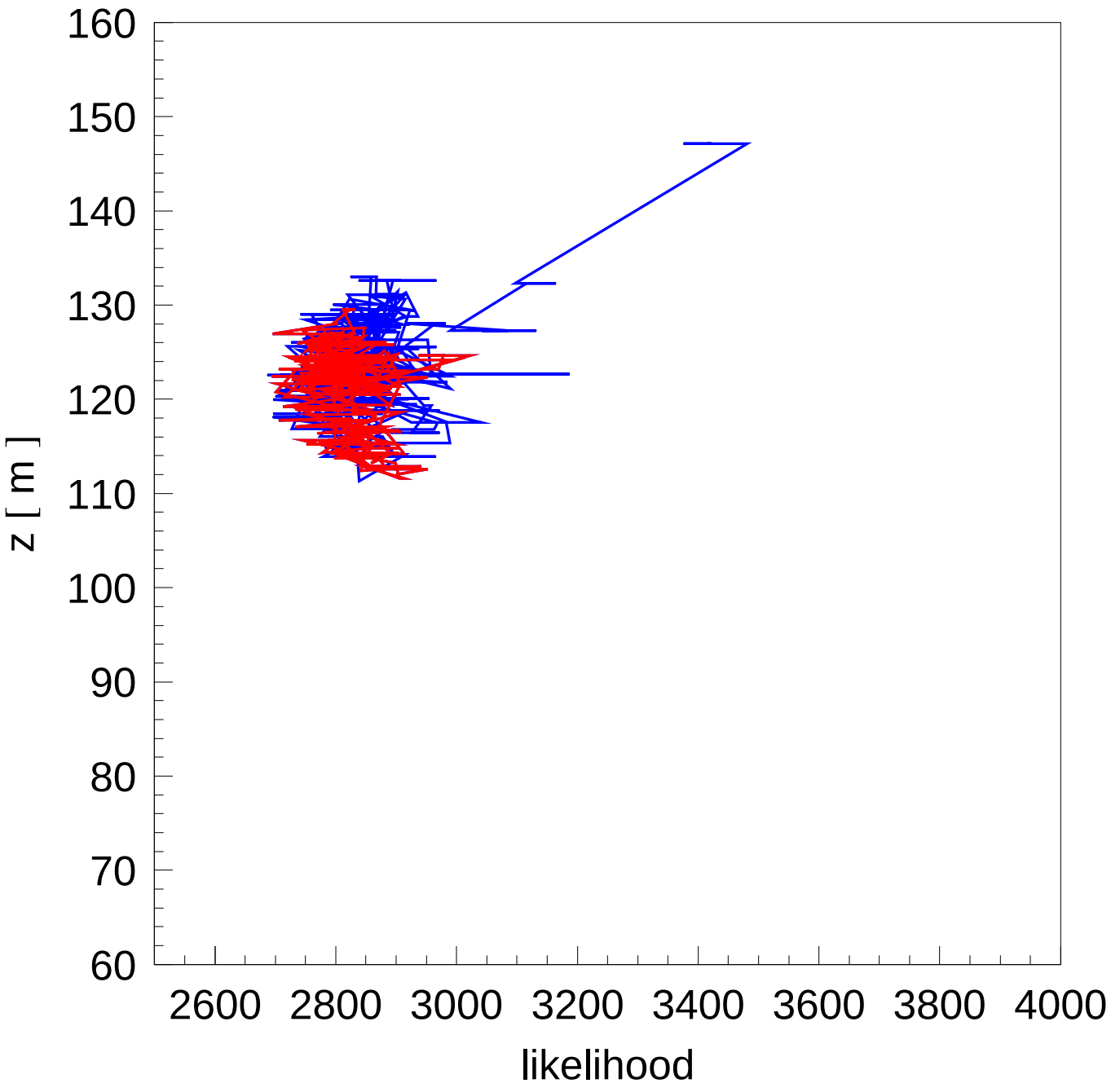
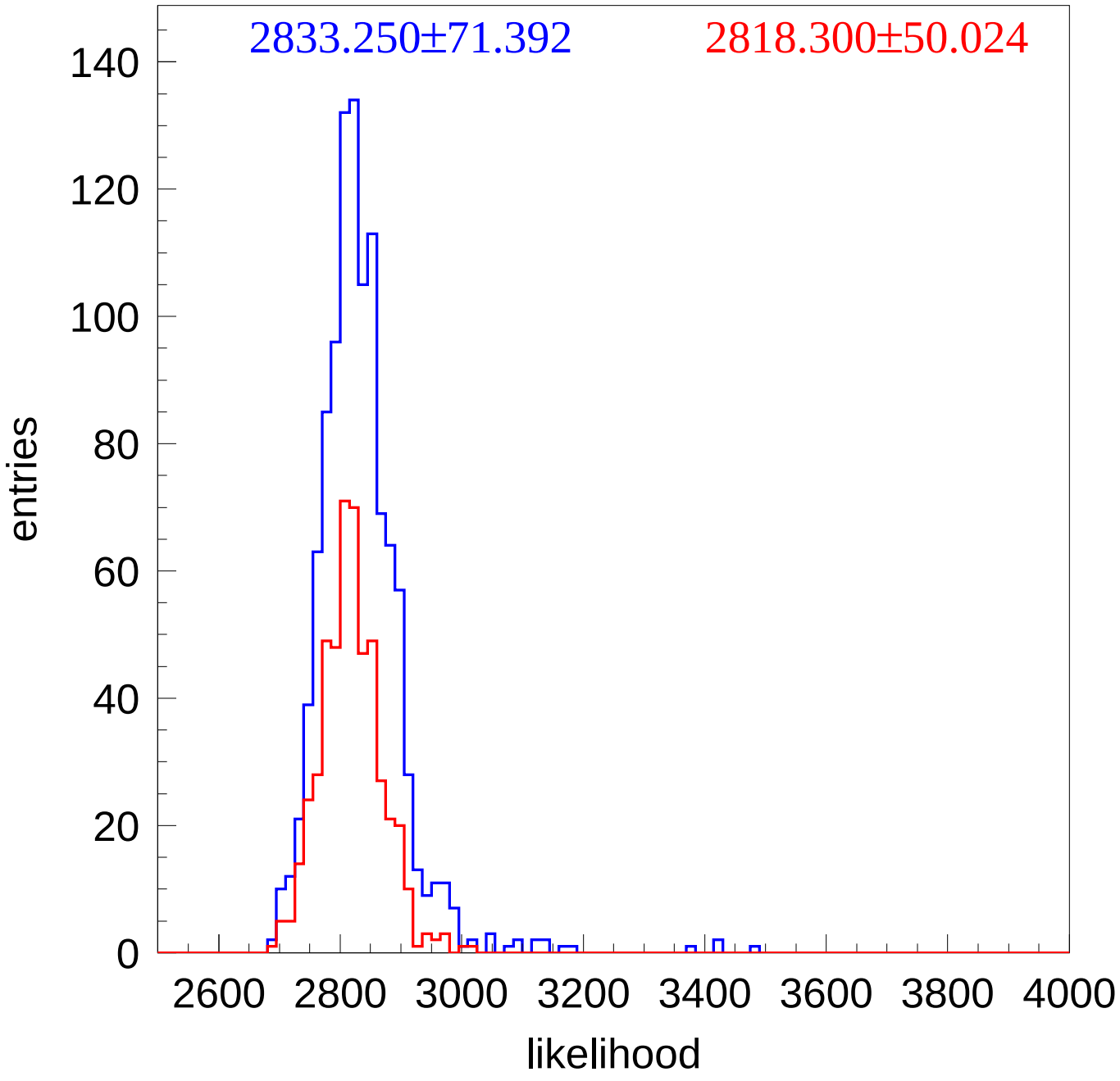
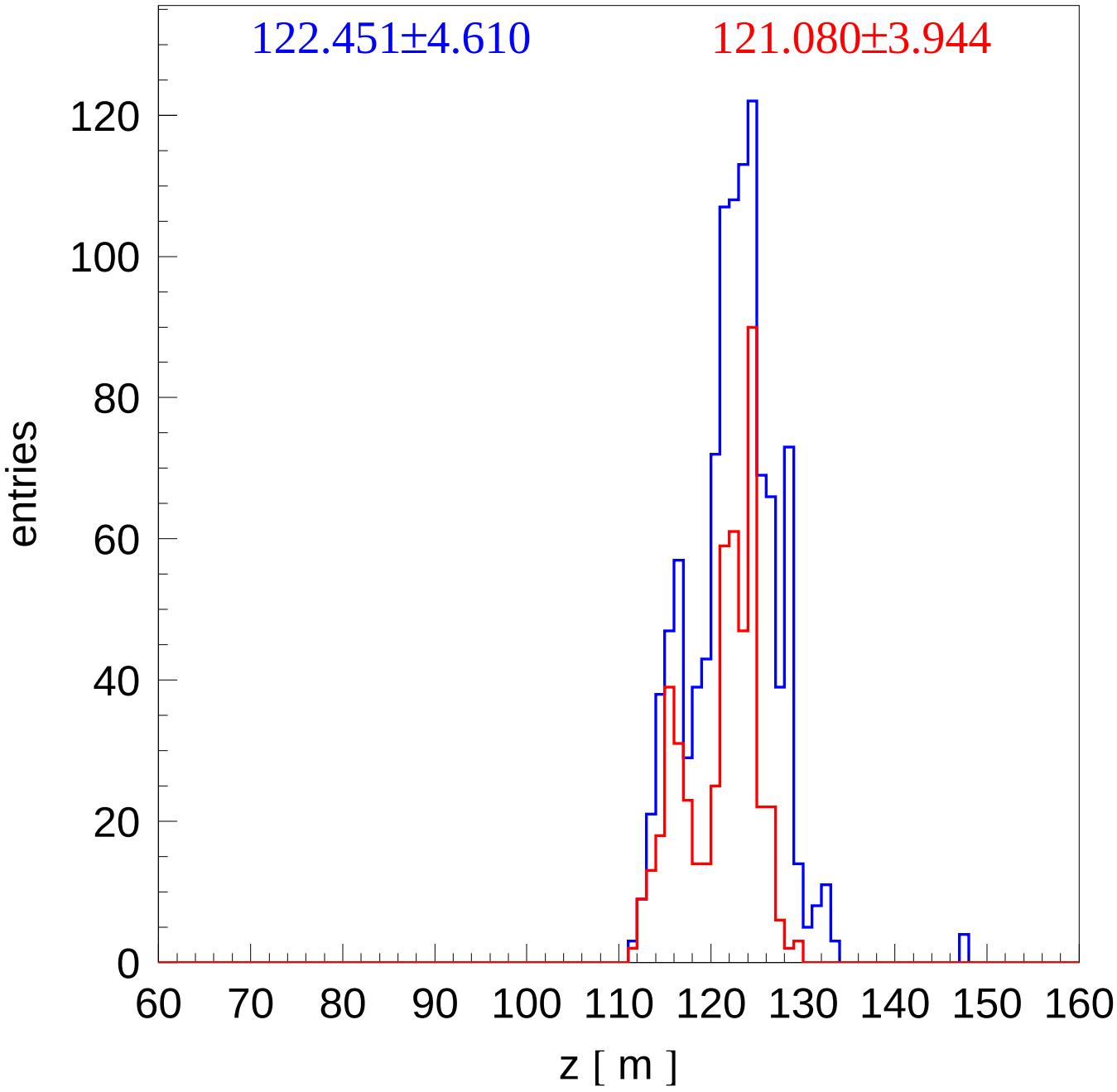
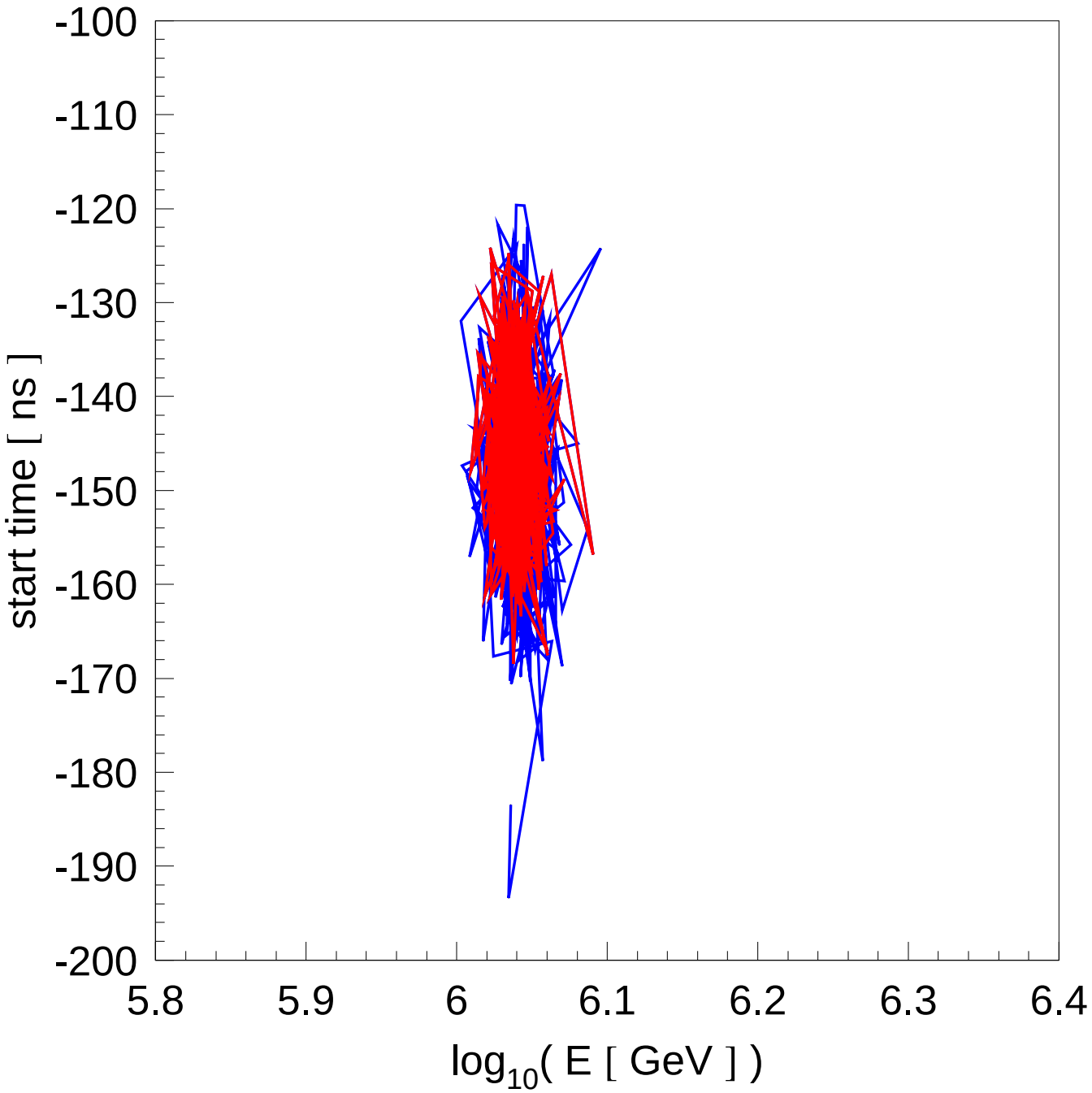
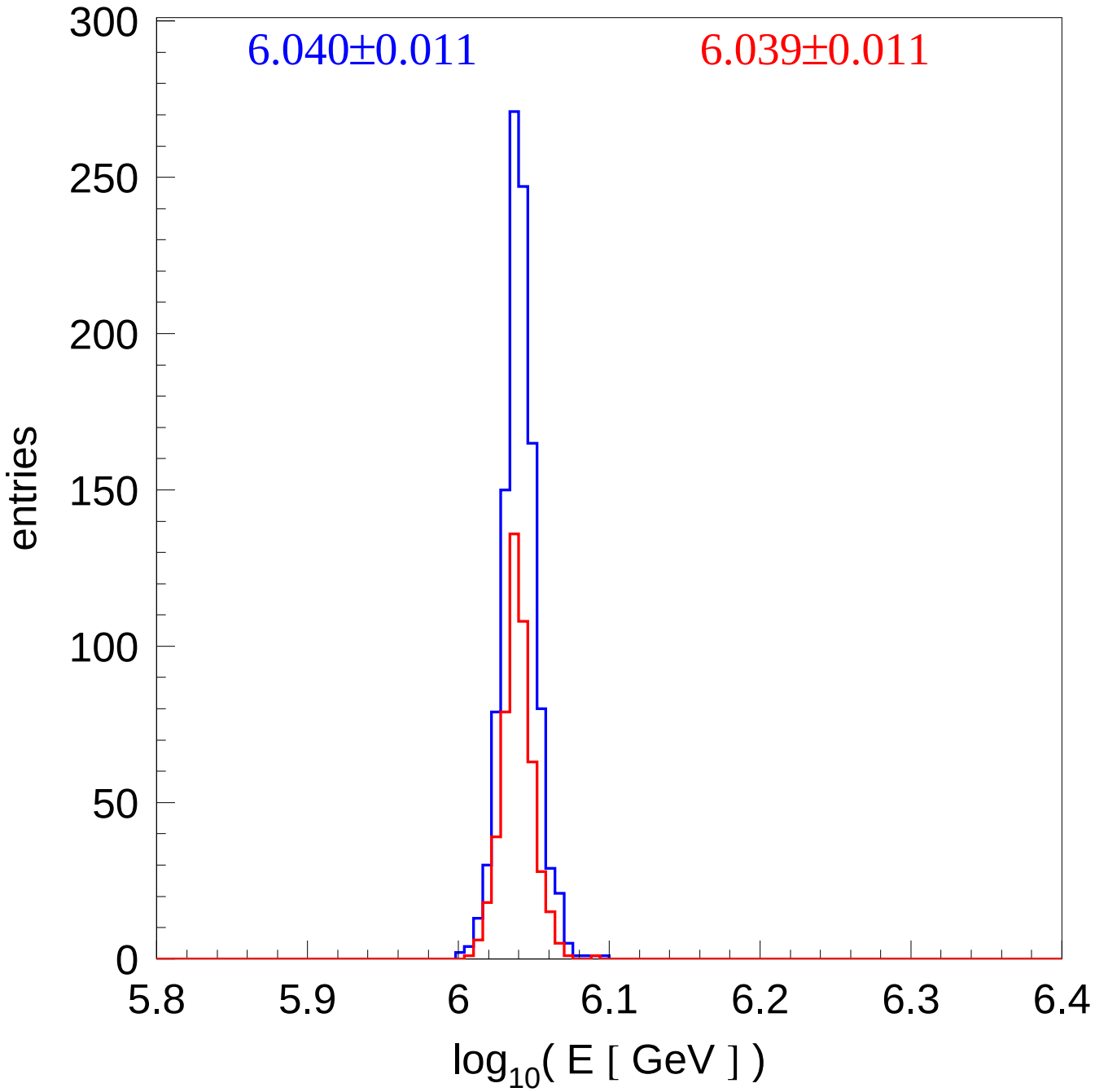

4000
3800
3600
3400
3200
3000
2800
2600
likelihood value
0
200
400
600
800
1000
step number

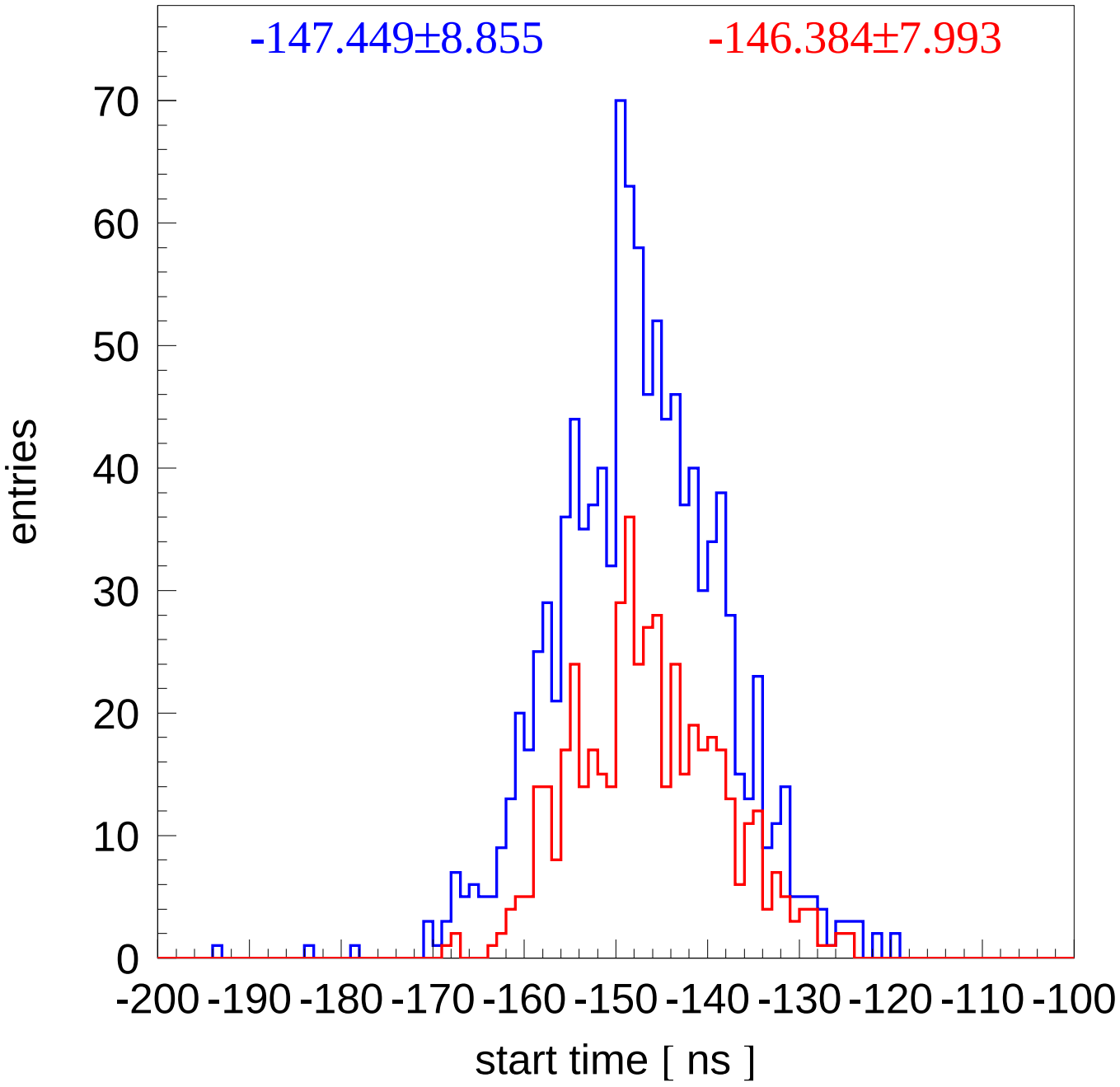

160
150
140
130
120
110
100
90
80
70
60
z [m]
2600
2800
3000
3200
3400
3600
3800
4000
likelihood

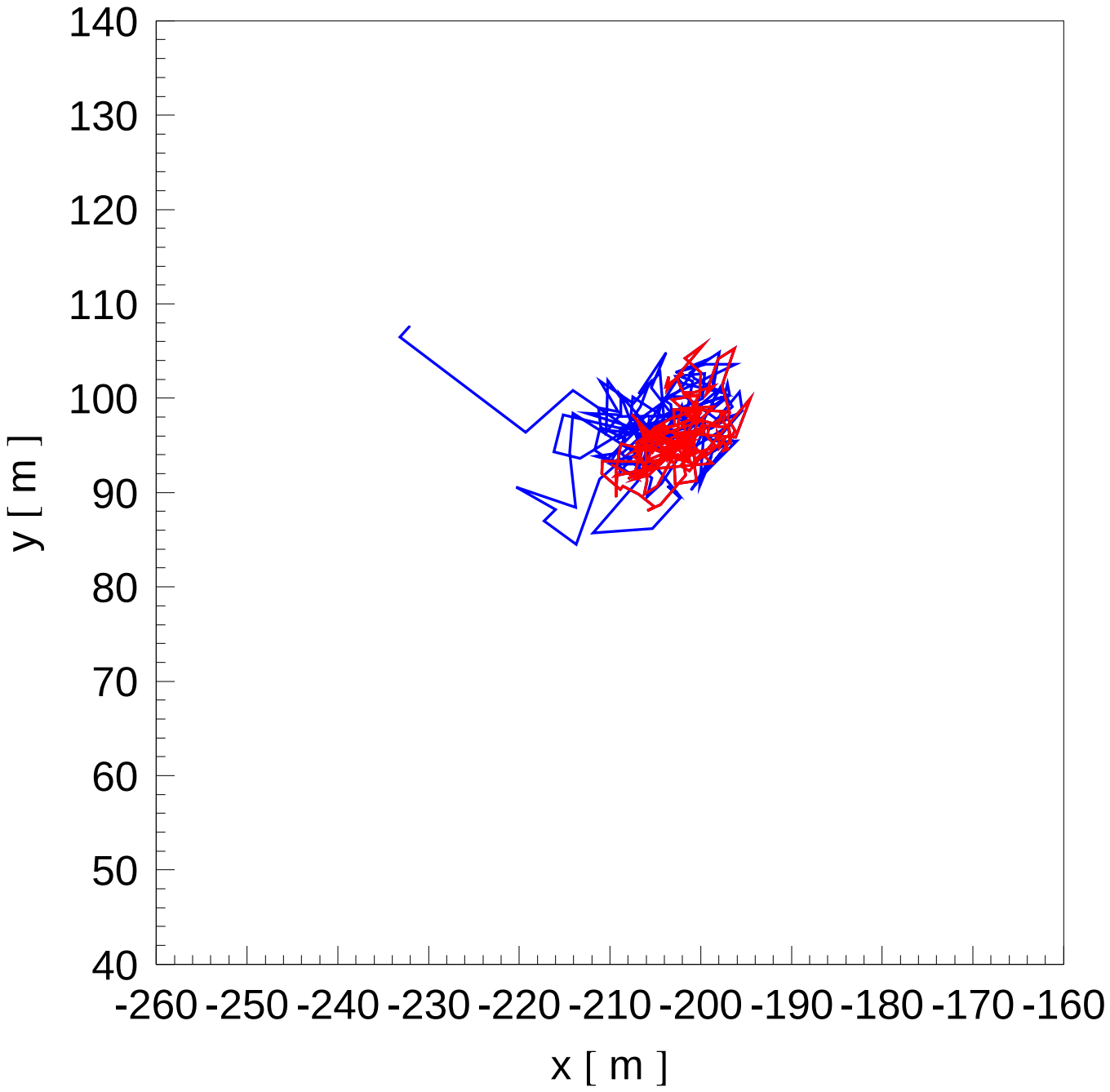

2833.250±71.392
2818.300±50.024
140
120
100
80
60
40
20
0
entries
2600
2800
3000
3200
3400
3600
3800
4000
likelihood

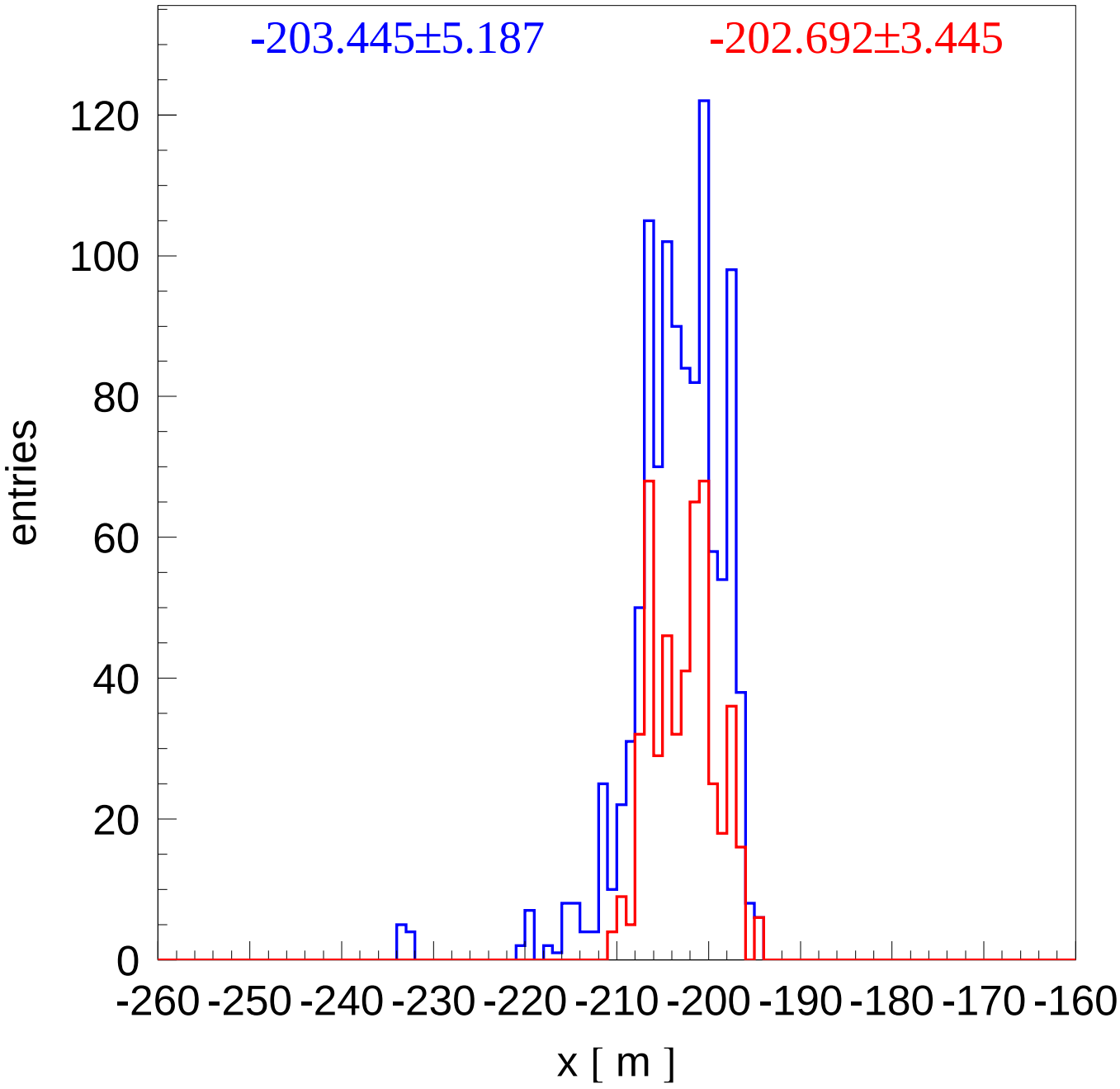

122.451±4.610
121.080±3.944
entries
0
20
40
60
80
100
120
60
70
80
90
100
110
120
130
140
150
160
z [m]

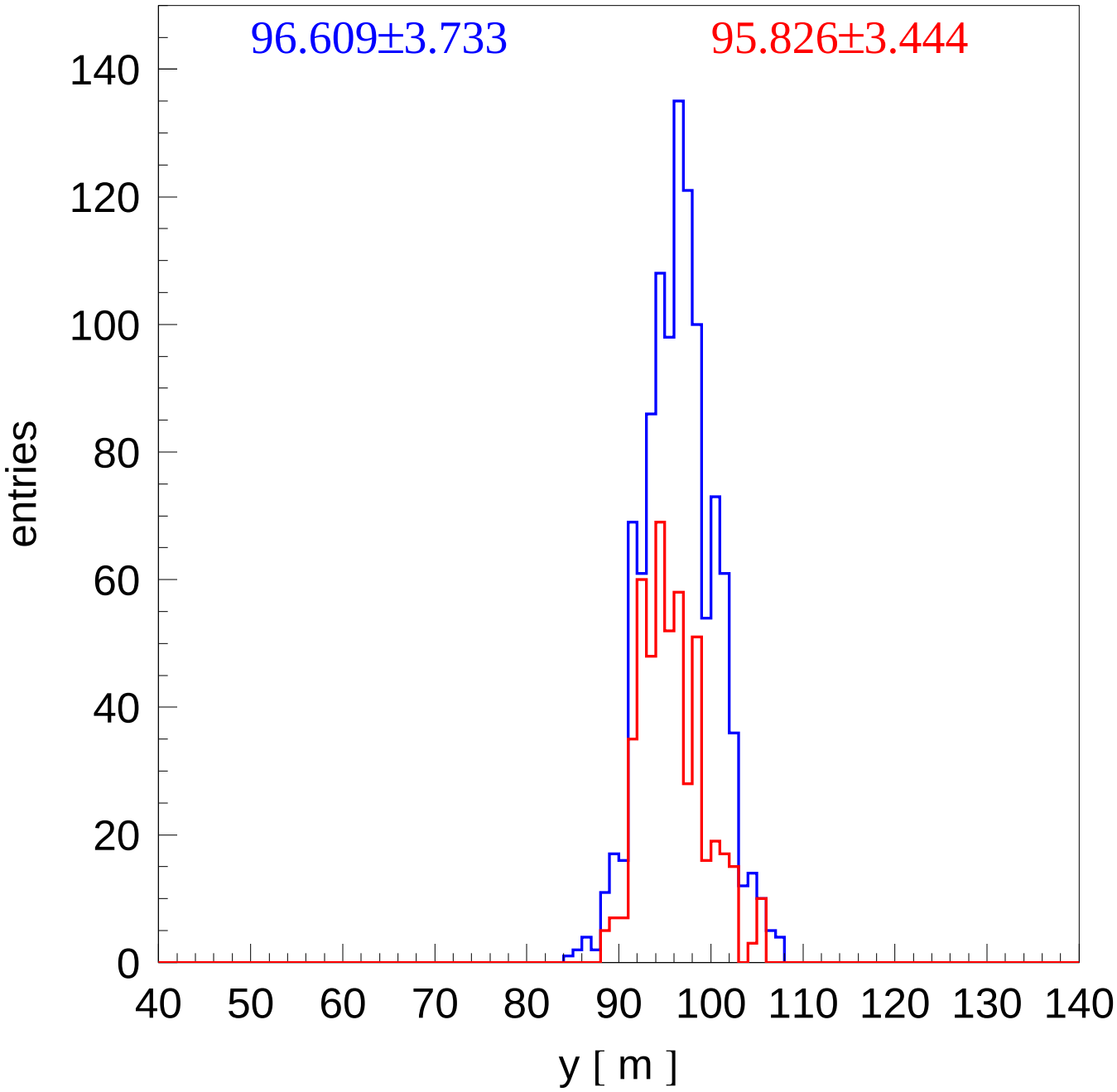

-100
-110
-120
-130
-140
-150
-160
-170
-180
-190
-200
start time [ns]
5.8
5.9
6
6.1
6.2
6.3
6.4
log10(E [GeV])

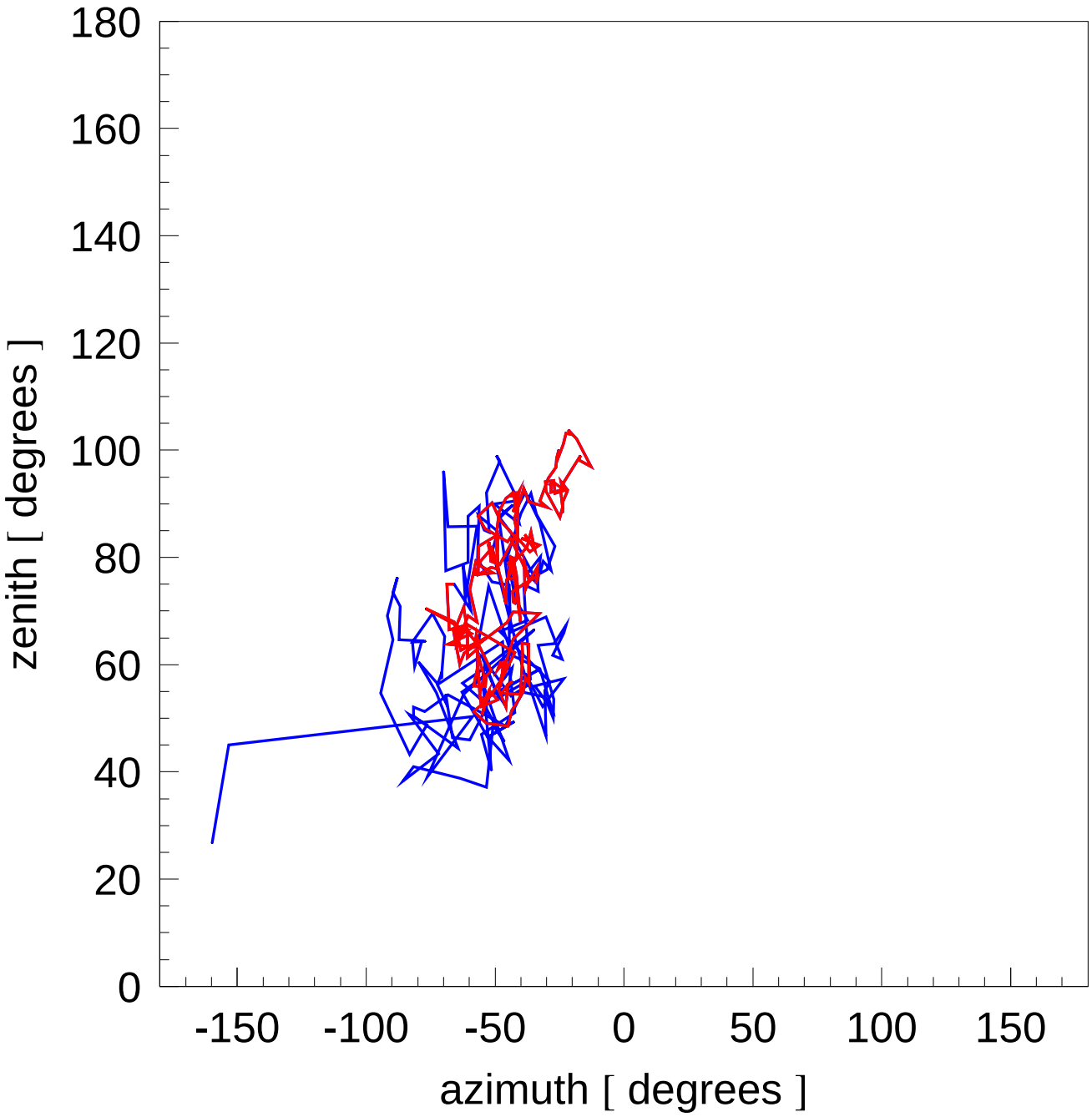

6.040±0.011
6.039±0.011
300
250
200
150
100
50
0
entries
5.8
5.9
6
6.1
6.2
6.3
6.4
log10(E [GeV])

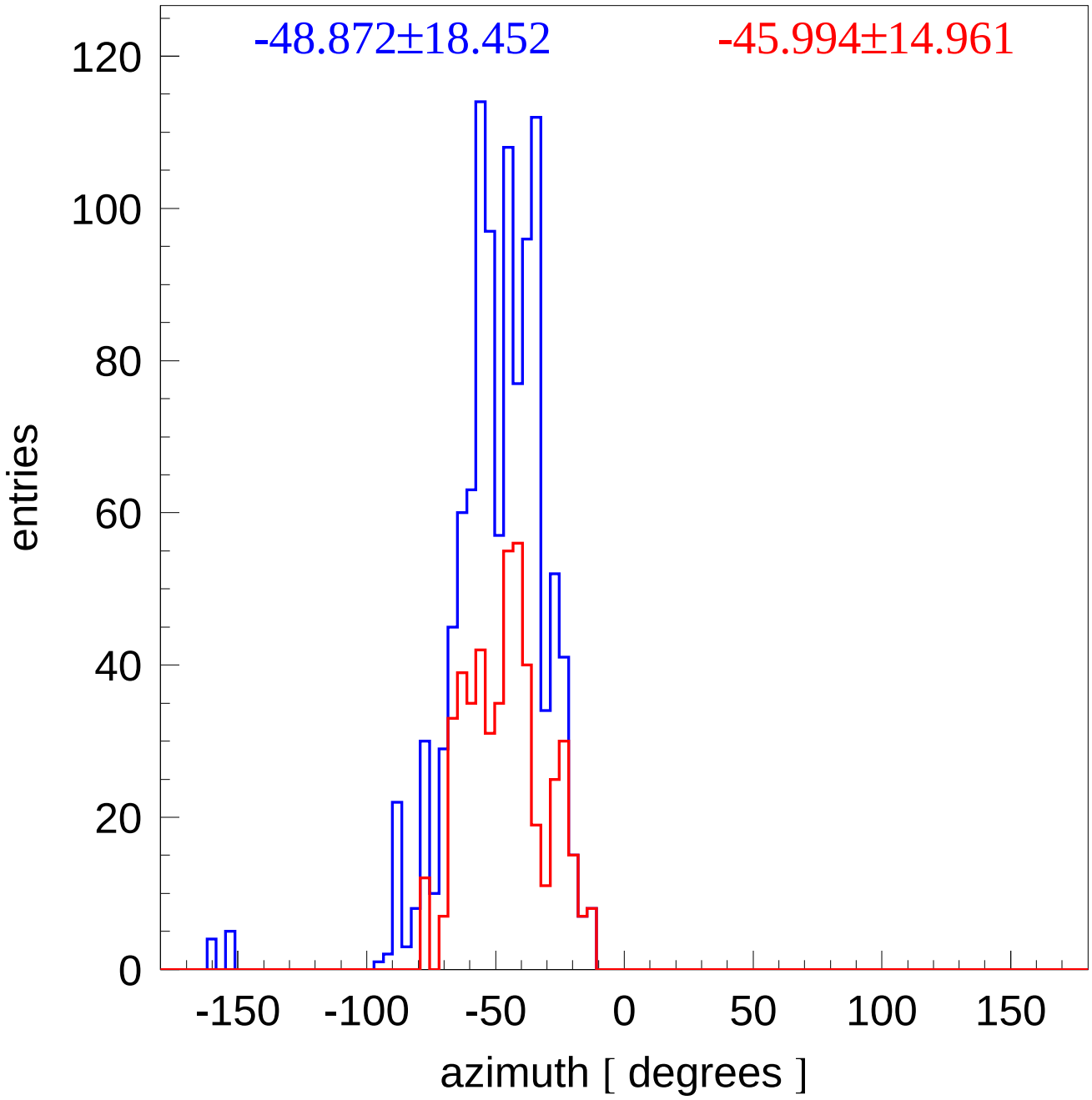

-147.449±8.855
-146.384±7.993
entries
0
10
20
30
40
50
60
70
-200
-190
-180
-170
-160
-150
-140
-130
-120
-110
-100
start time [ns]

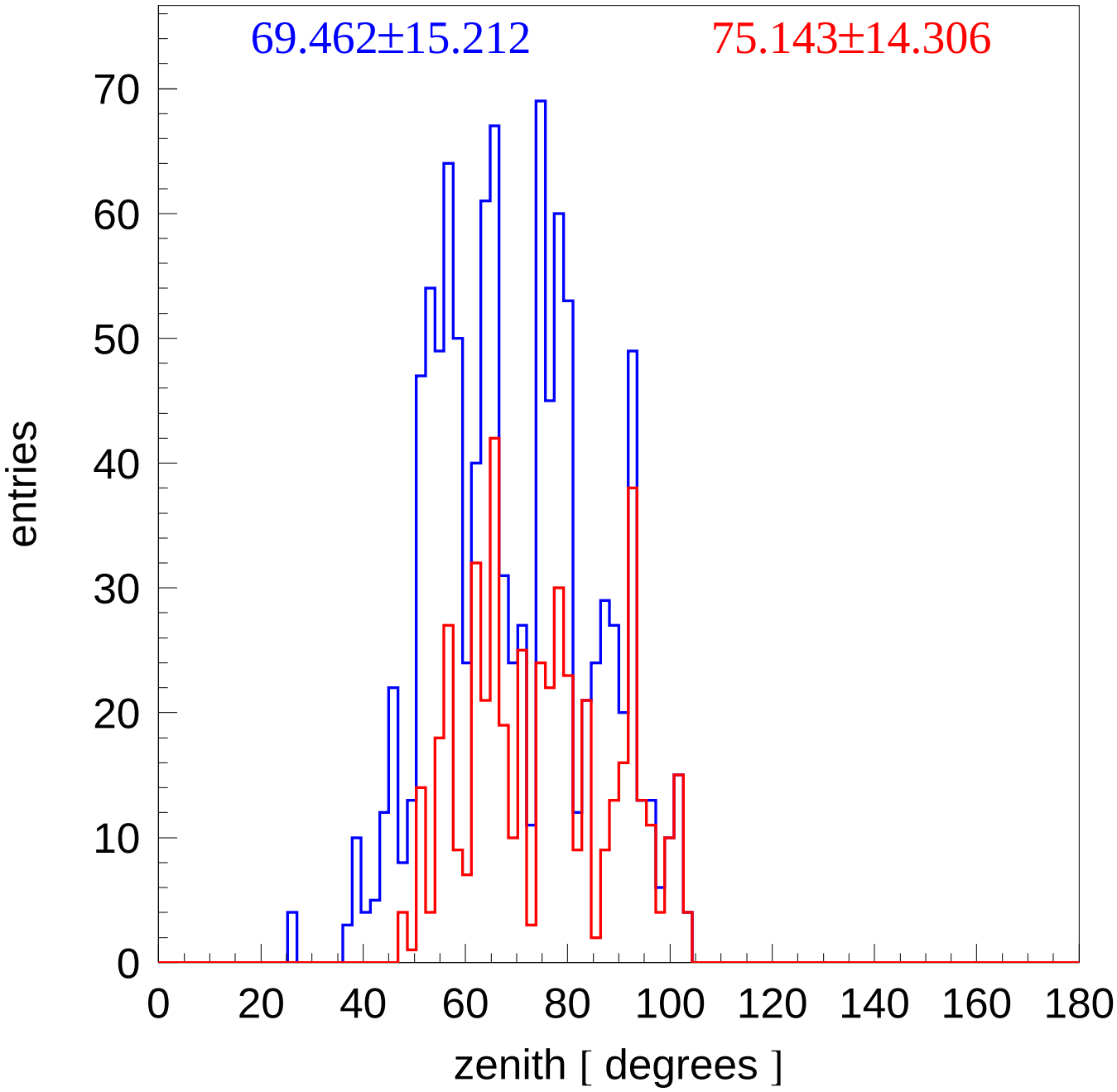

140
130
120
110
100
90
80
70
60
50
40
y [m]
-260
-250
-240
-230
-220
-210
-200
-190
-180
-170
-160
x [m]


-203.445±5.187
-202.692±3.445
entries
0
20
40
60
80
100
120
-260
-250
-240
-230
-220
-210
-200
-190
-180
-170
-160
x [m]


96.609±3.733
95.826±3.444
entries
y [m]
0
20
40
60
80
100
120
140
40
50
60
70
80
90
100
110
120
130
140


180
160
140
120
100
80
60
40
20
0
zenith [degrees]
-150
-100
-50
0
50
100
150
azimuth [degrees]


-48.872±18.452
-45.994±14.961
120
100
80
60
40
20
0
entries
-150
-100
-50
0
50
100
150
azimuth [degrees]


69.462±15.212
75.143±14.306
entries
zenith [degrees]
0
10
20
30
40
50
60
70
0
20
40
60
80
100
120
140
160
180