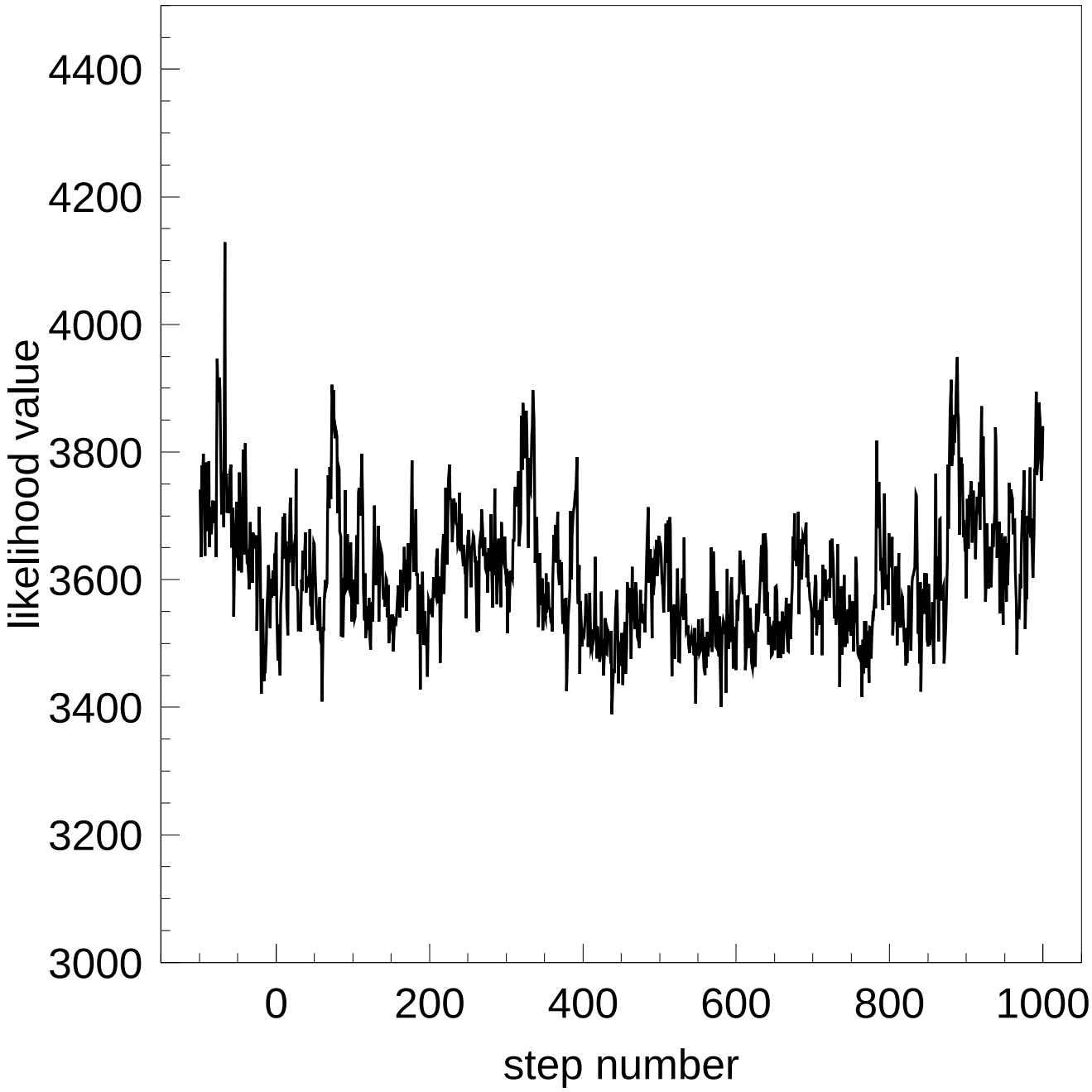
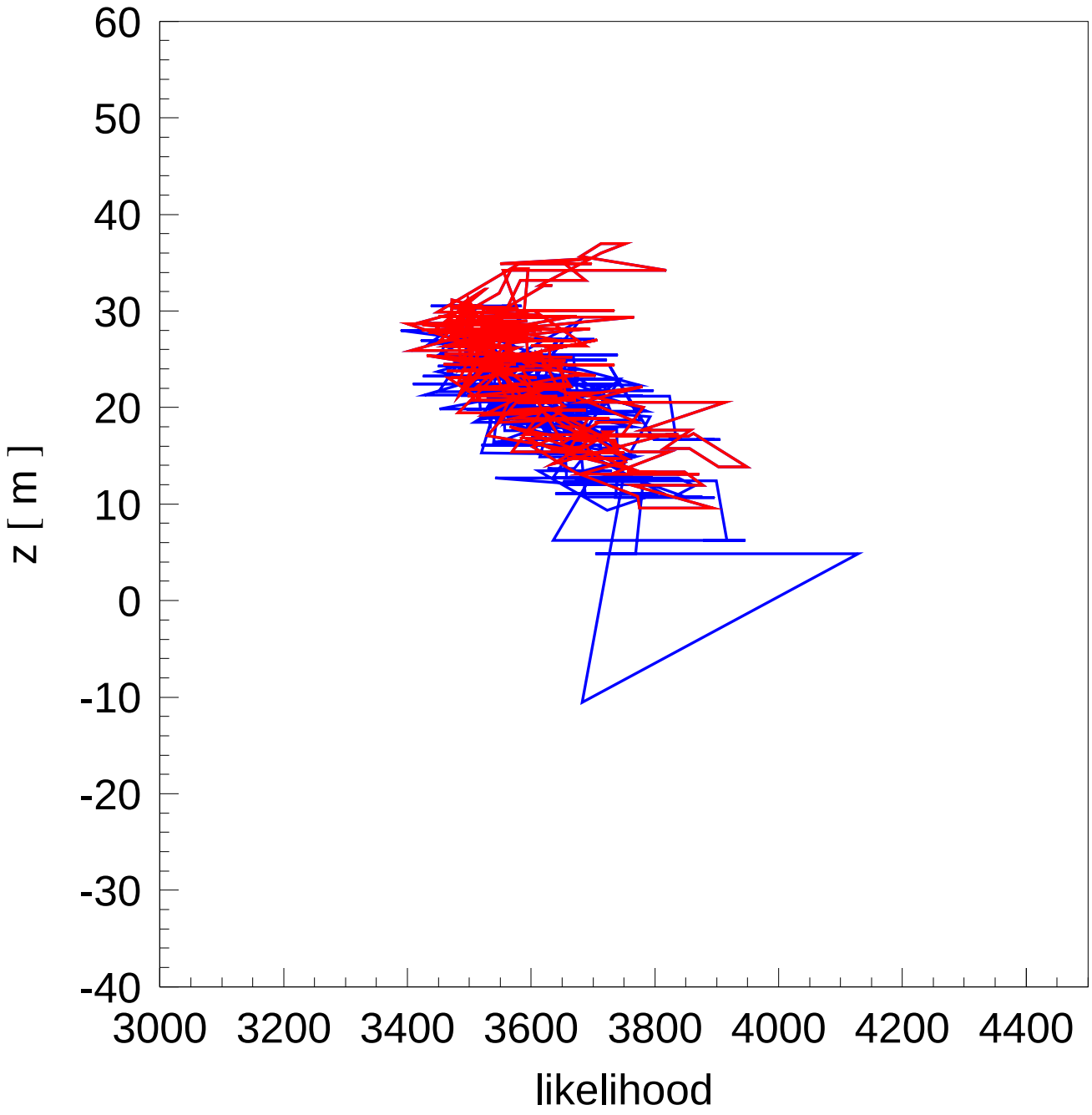
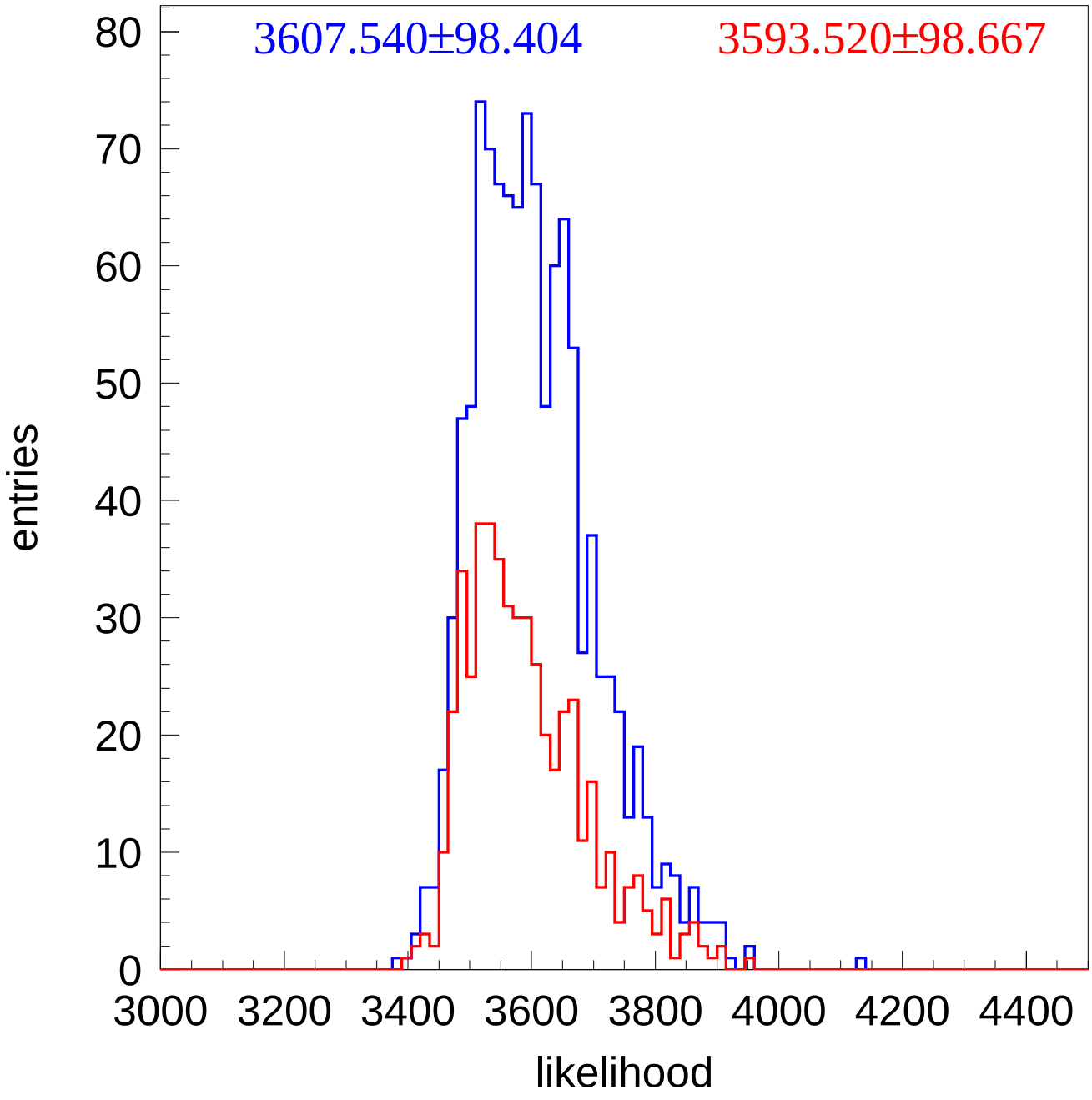
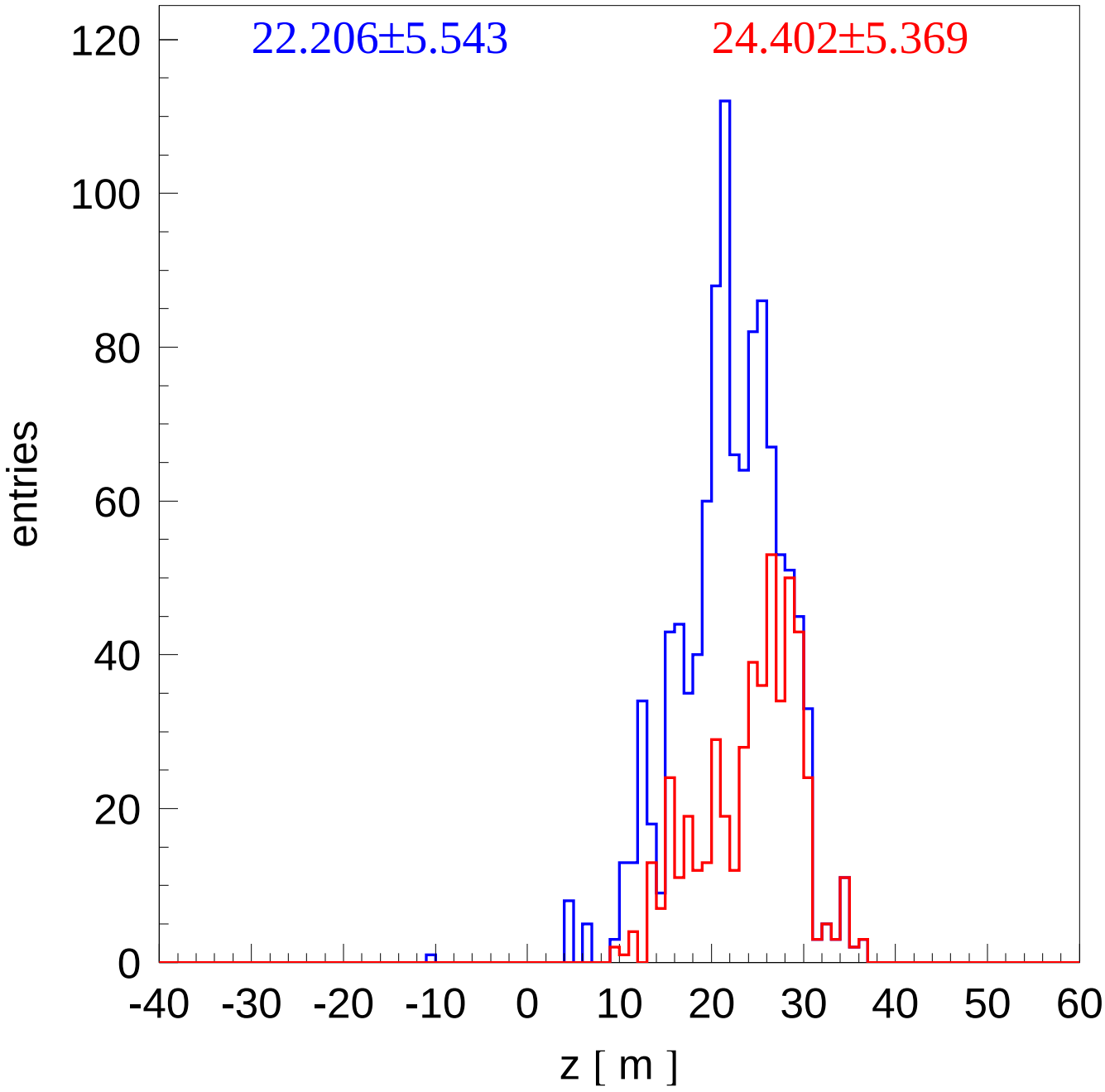
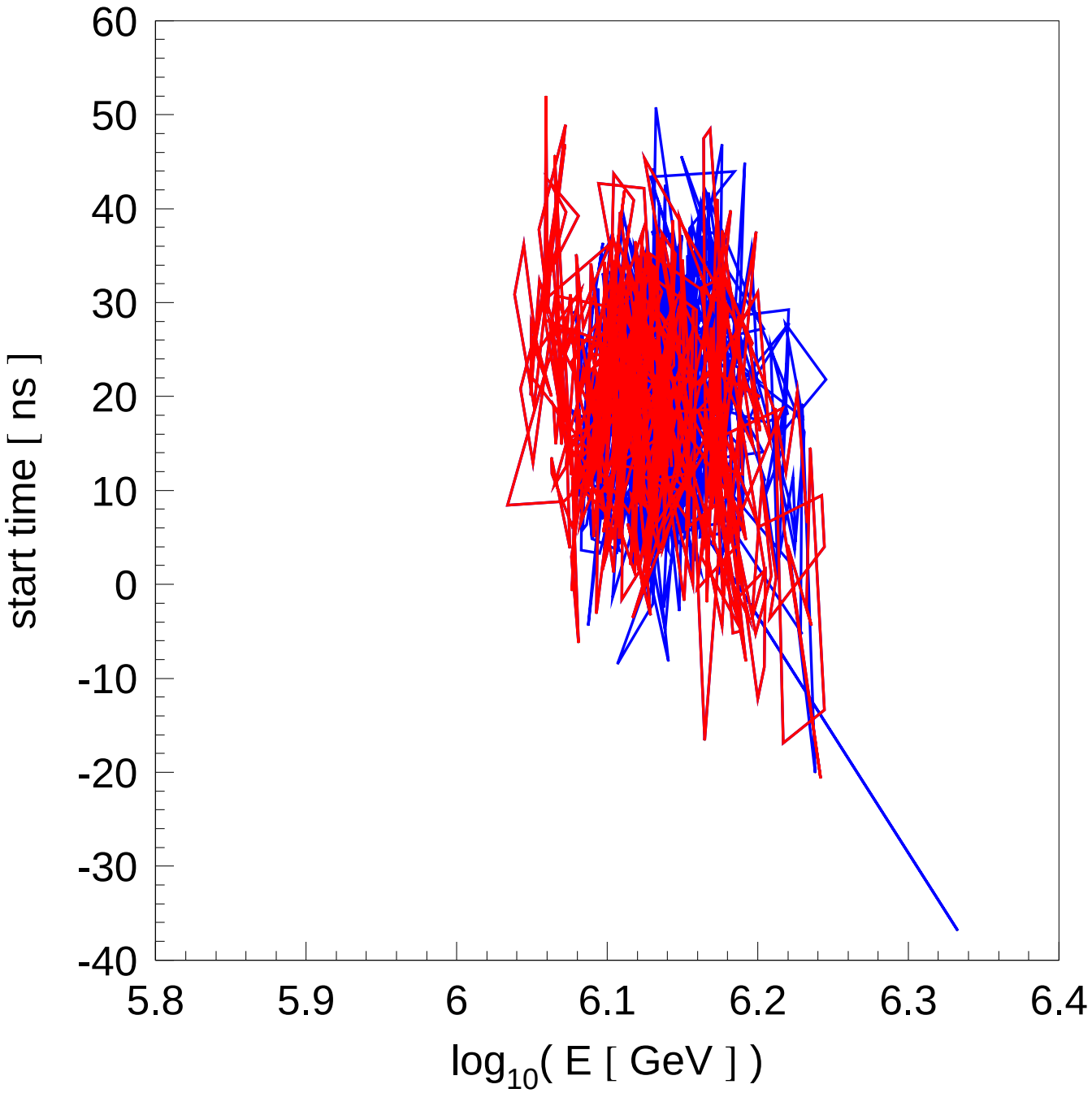
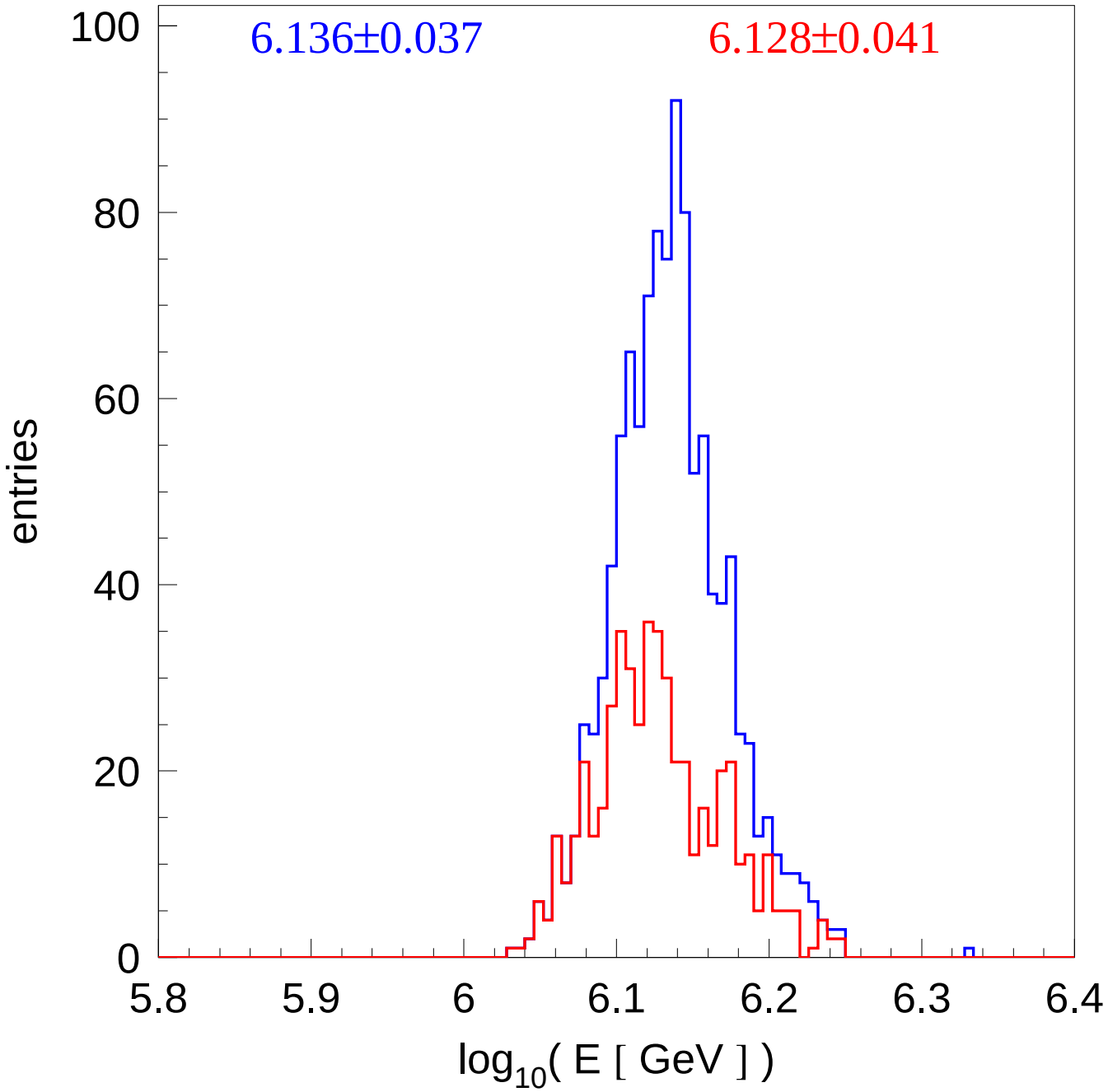

4400
4200
4000
3800
3600
3400
3200
3000
likelihood value
0
200
400
600
800
1000
step number

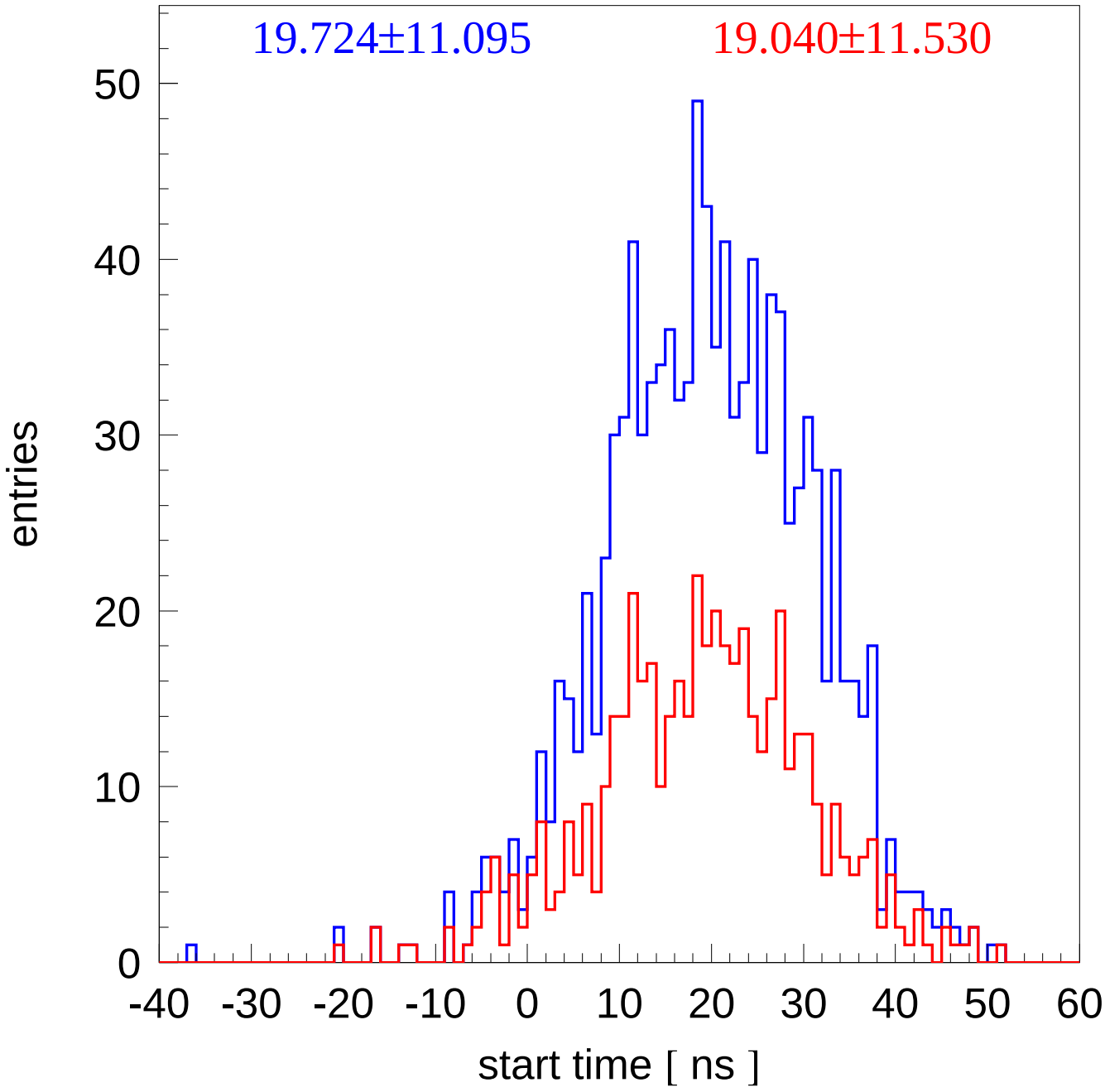

60
50
40
30
20
10
0
-10
-20
-30
-40
z [m]
3000
3200
3400
3600
3800
4000
4200
4400
likelihood

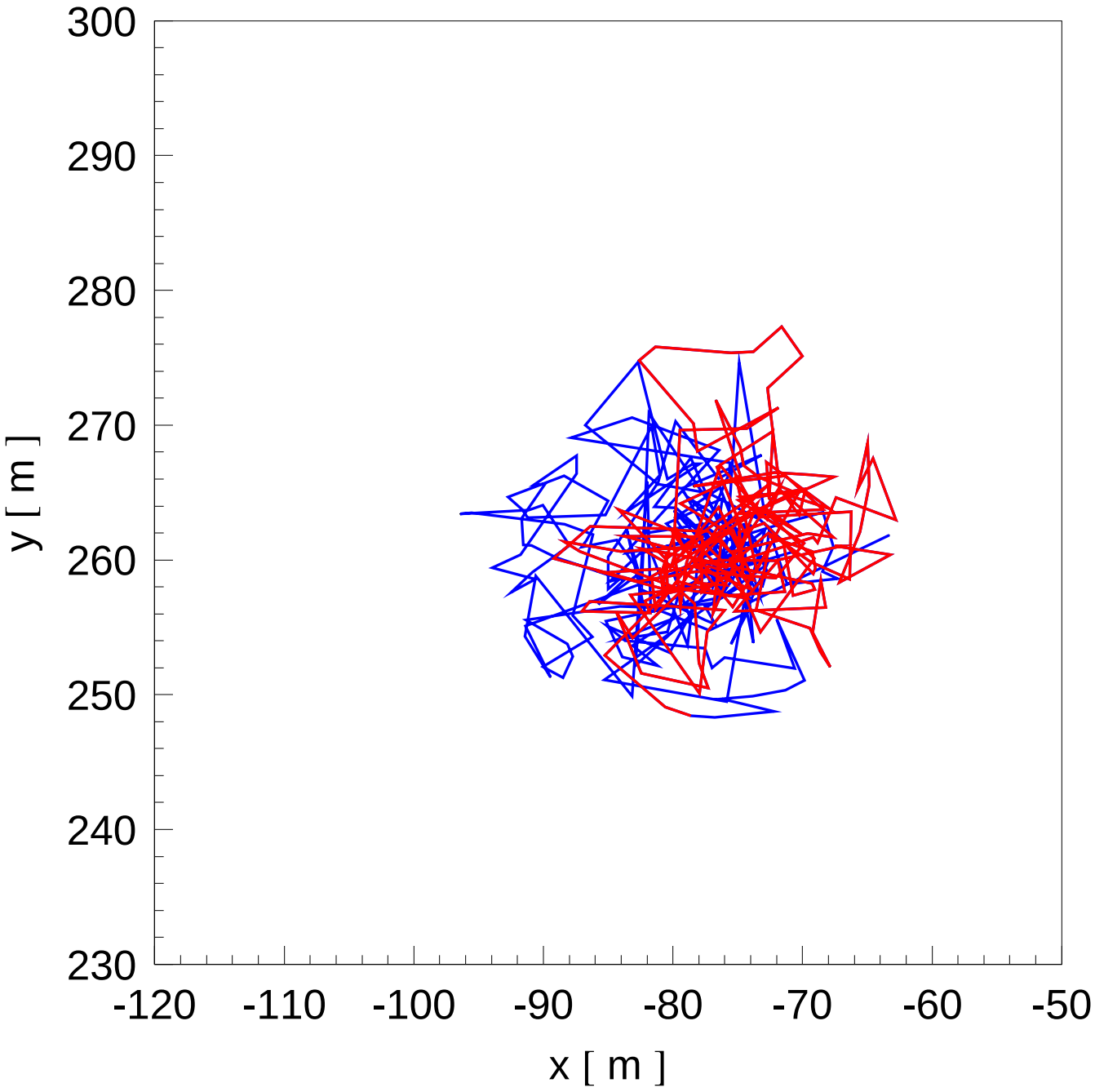

3607.540±98.404
3593.520±98.667
entries
likelihood
0
10
20
30
40
50
60
70
80
3000
3200
3400
3600
3800
4000
4200
4400

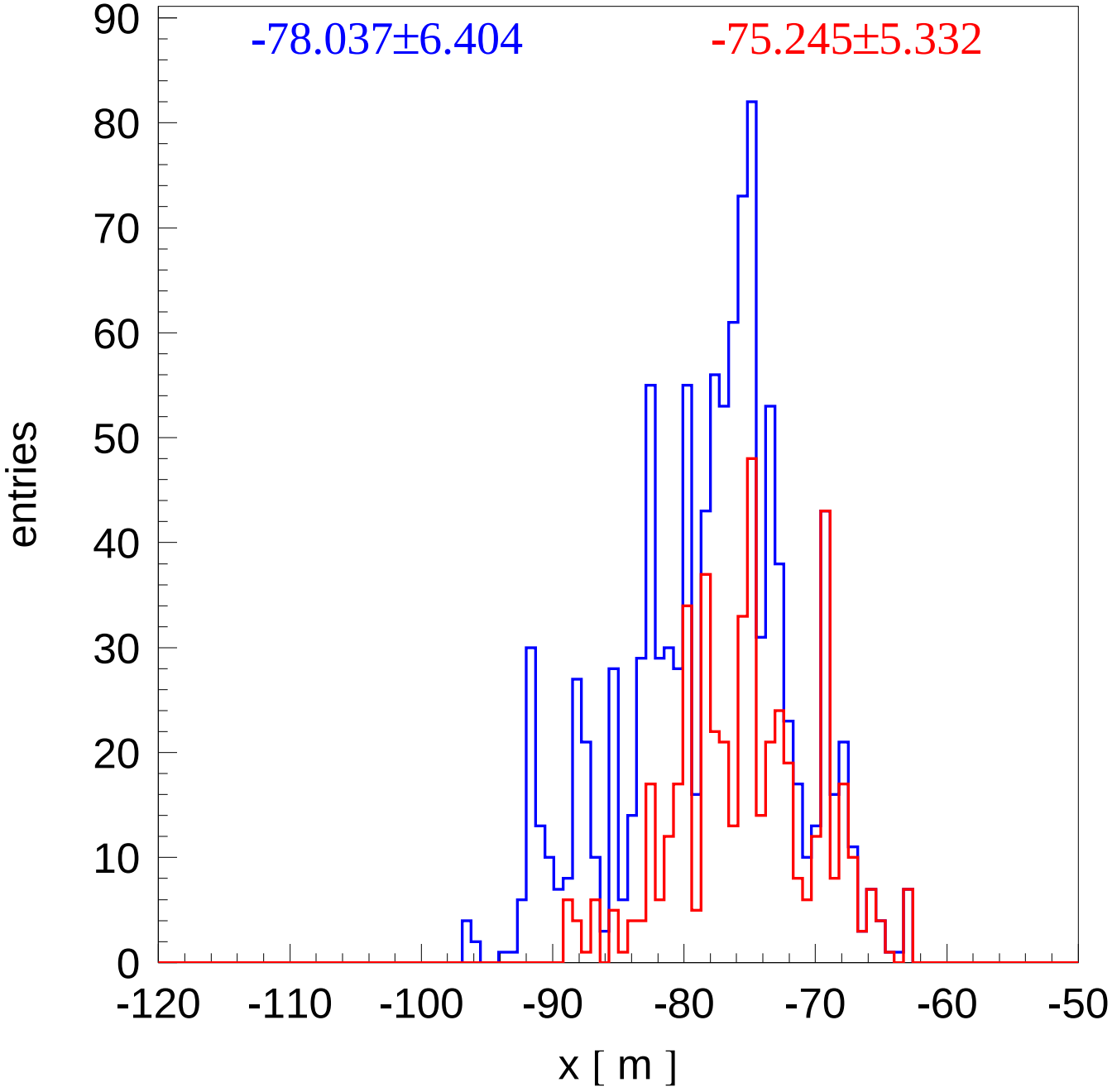

22.206±5.543
24.402±5.369
entries
z [m]
120
100
80
60
40
20
0
-40
-30
-20
-10
0
10
20
30
40
50
60

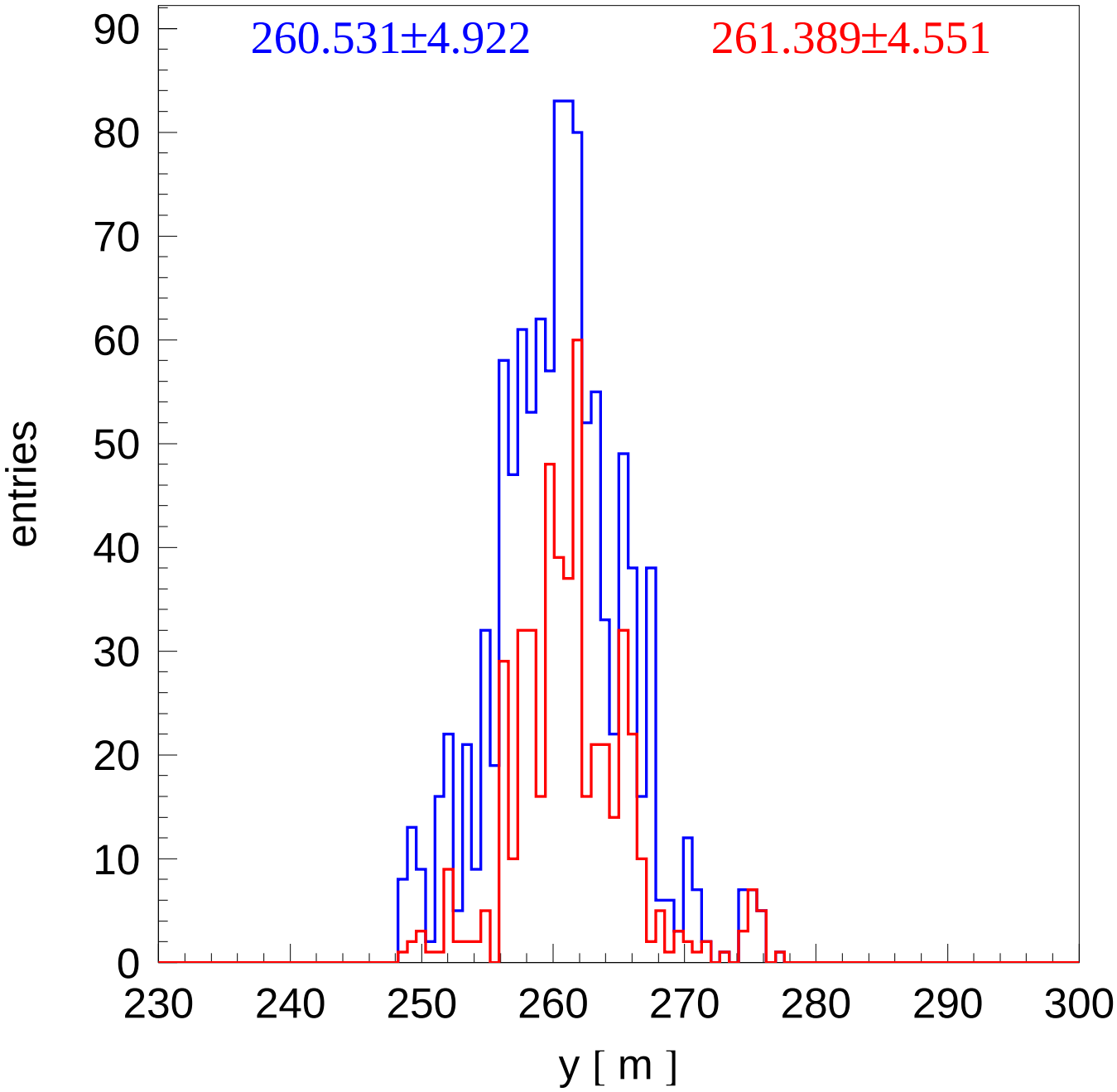

60
50
40
30
20
10
0
-10
-20
-30
-40
start time [ns]
5.8
5.9
6
6.1
6.2
6.3
6.4
log10(E [GeV])

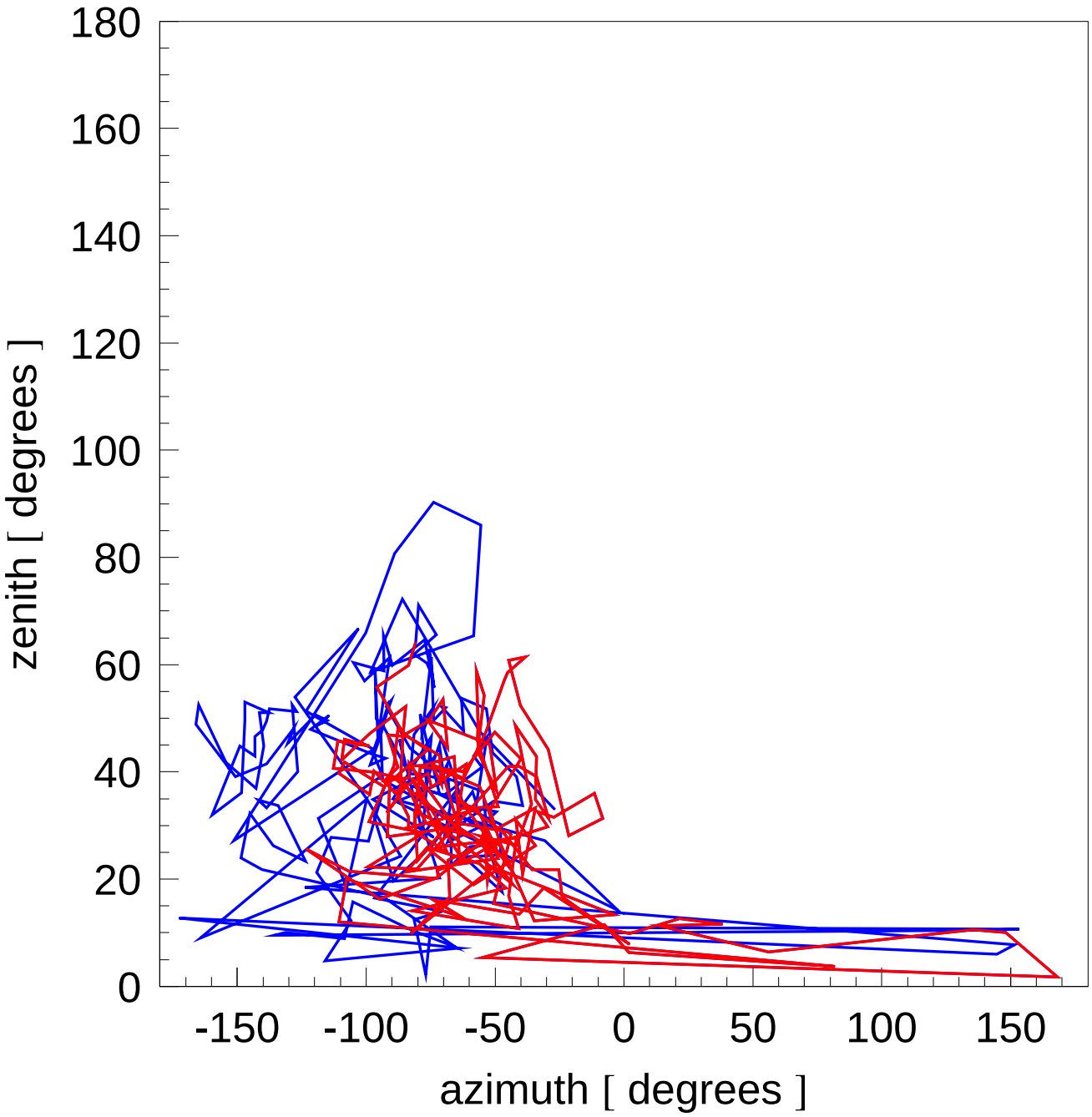

6.136±0.037
6.128±0.041
entries
100
80
60
40
20
0
5.8
5.9
6
6.1
6.2
6.3
6.4
log10(E [GeV])

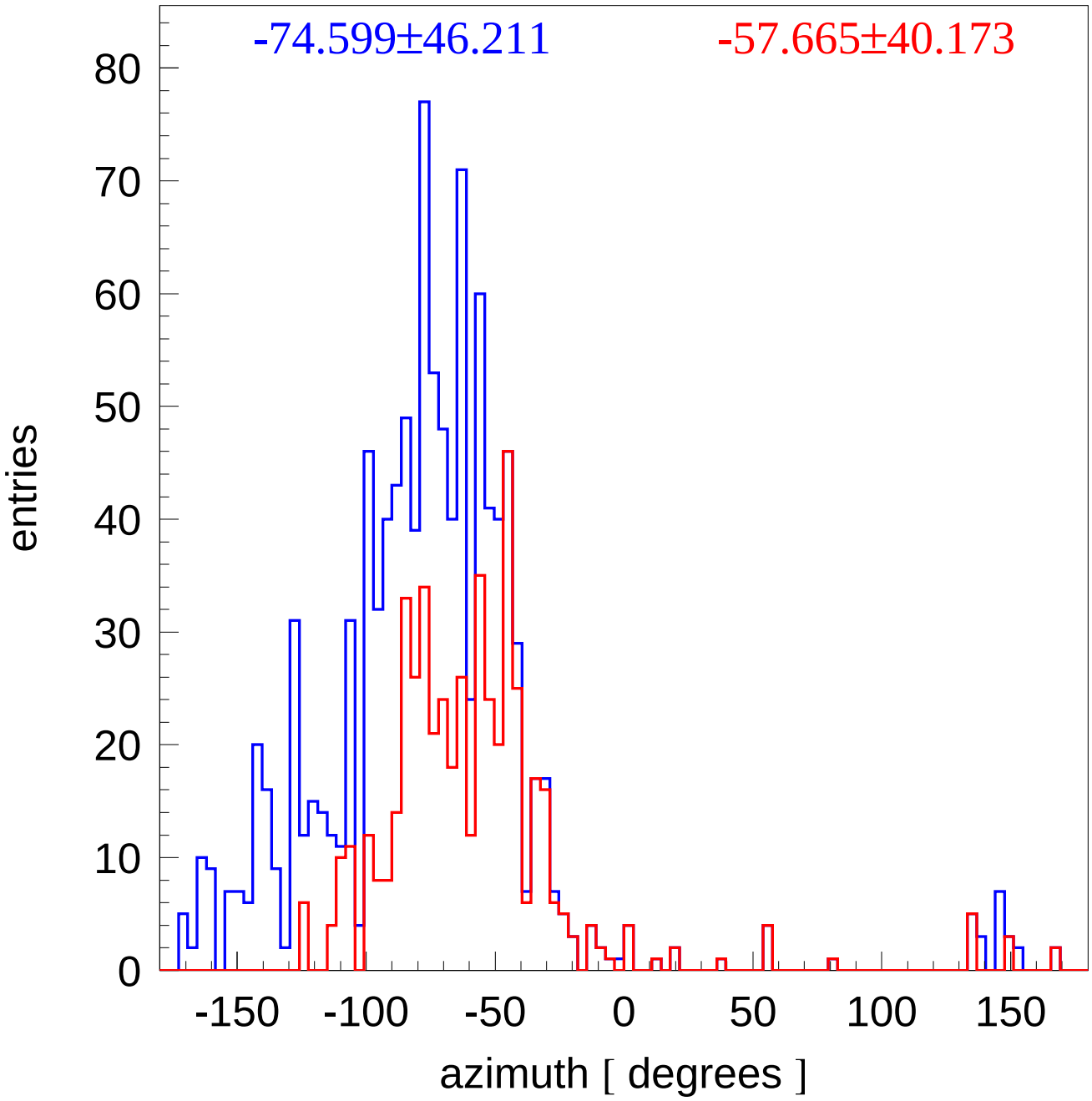

19.724±11.095
19.040±11.530
entries
start time [ns]
0
10
20
30
40
50
-40
-30
-20
-10
0
10
20
30
40
50
60

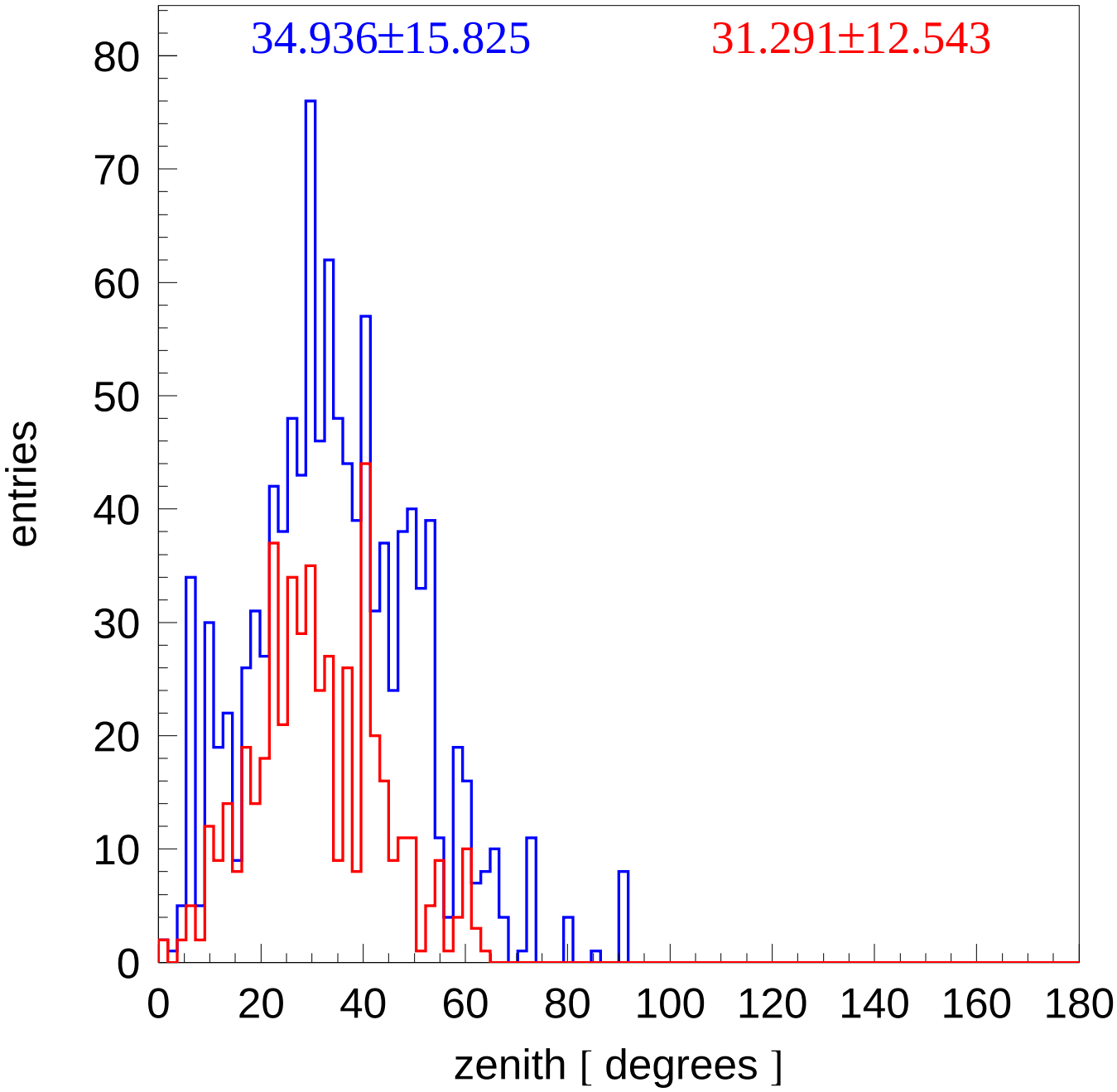

300
290
280
270
260
250
240
230
y [m]
-120
-110
-100
-90
-80
-70
-60
-50
x [m]


-78.037±6.404
-75.245±5.332
entries
x [m]
0
10
20
30
40
50
60
70
80
90
-120
-110
-100
-90
-80
-70
-60
-50


260.531±4.922
261.389±4.551
entries
y [m]
0
10
20
30
40
50
60
70
80
90
230
240
250
260
270
280
290
300


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


-74.599±46.211
-57.665±40.173
entries
azimuth [degrees]
0
10
20
30
40
50
60
70
80
-150
-100
-50
0
50
100
150


34.936±15.825
31.291±12.543
entries
zenith [degrees]
0
10
20
30
40
50
60
70
80
0
20
40
60
80
100
120
140
160
180