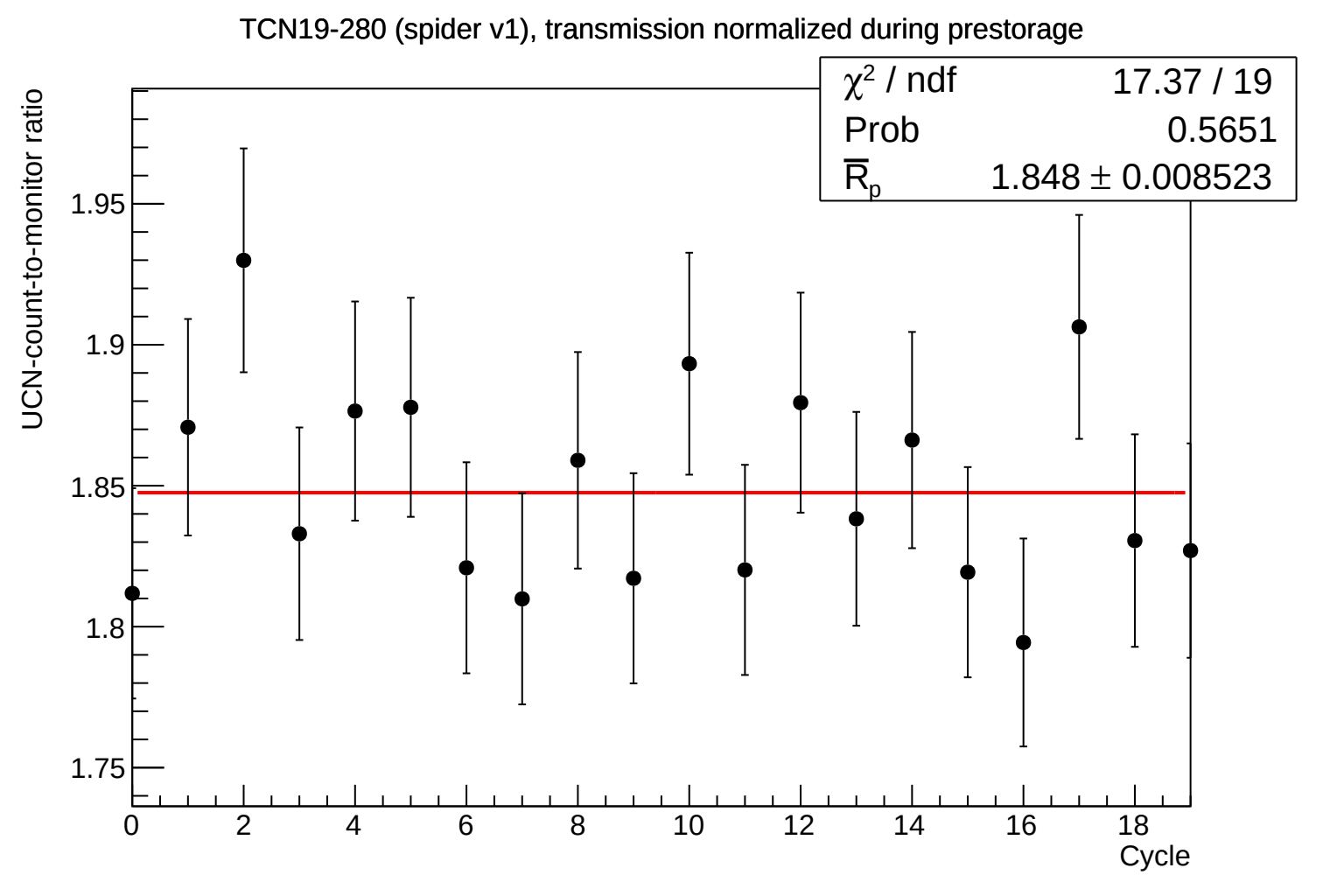
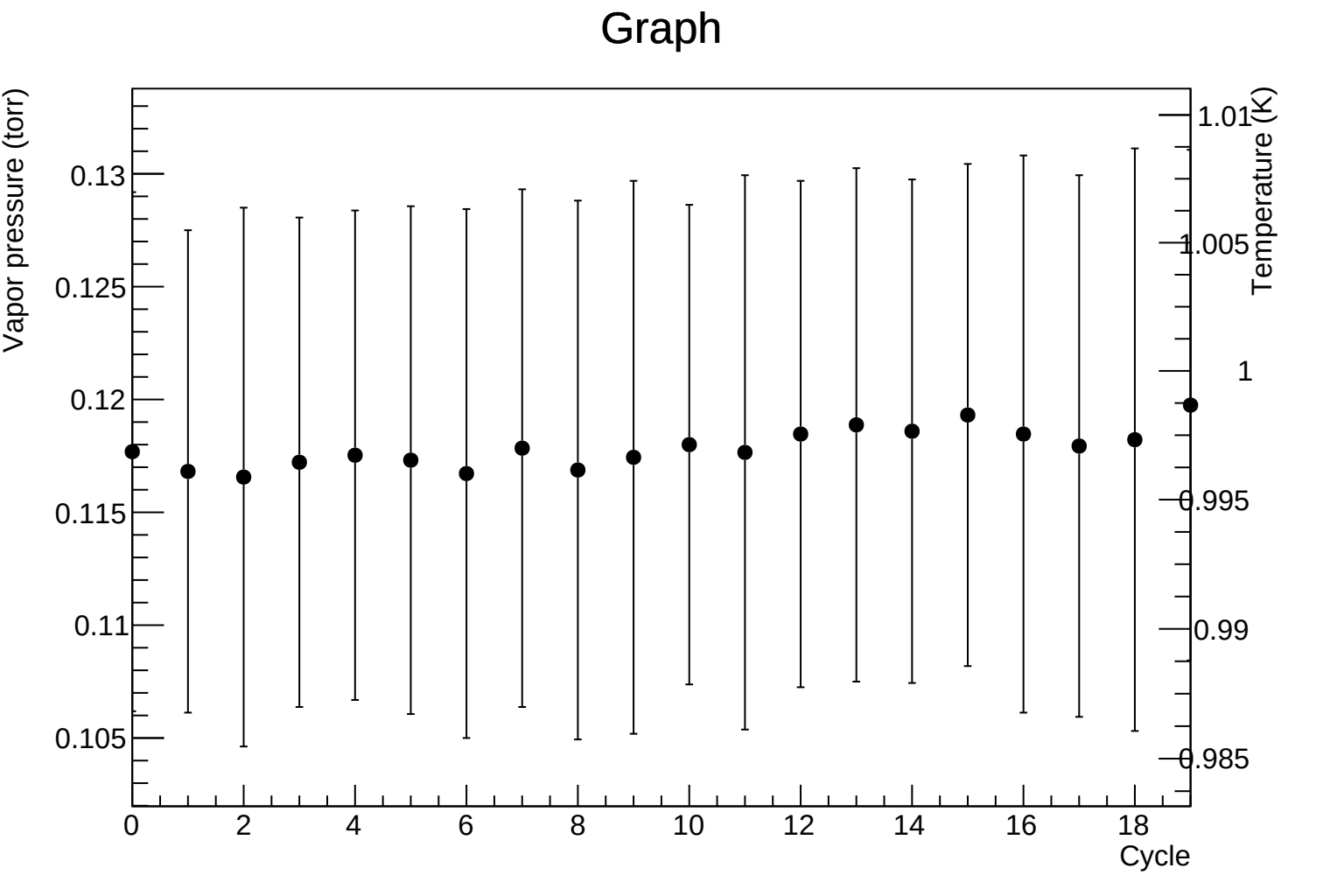
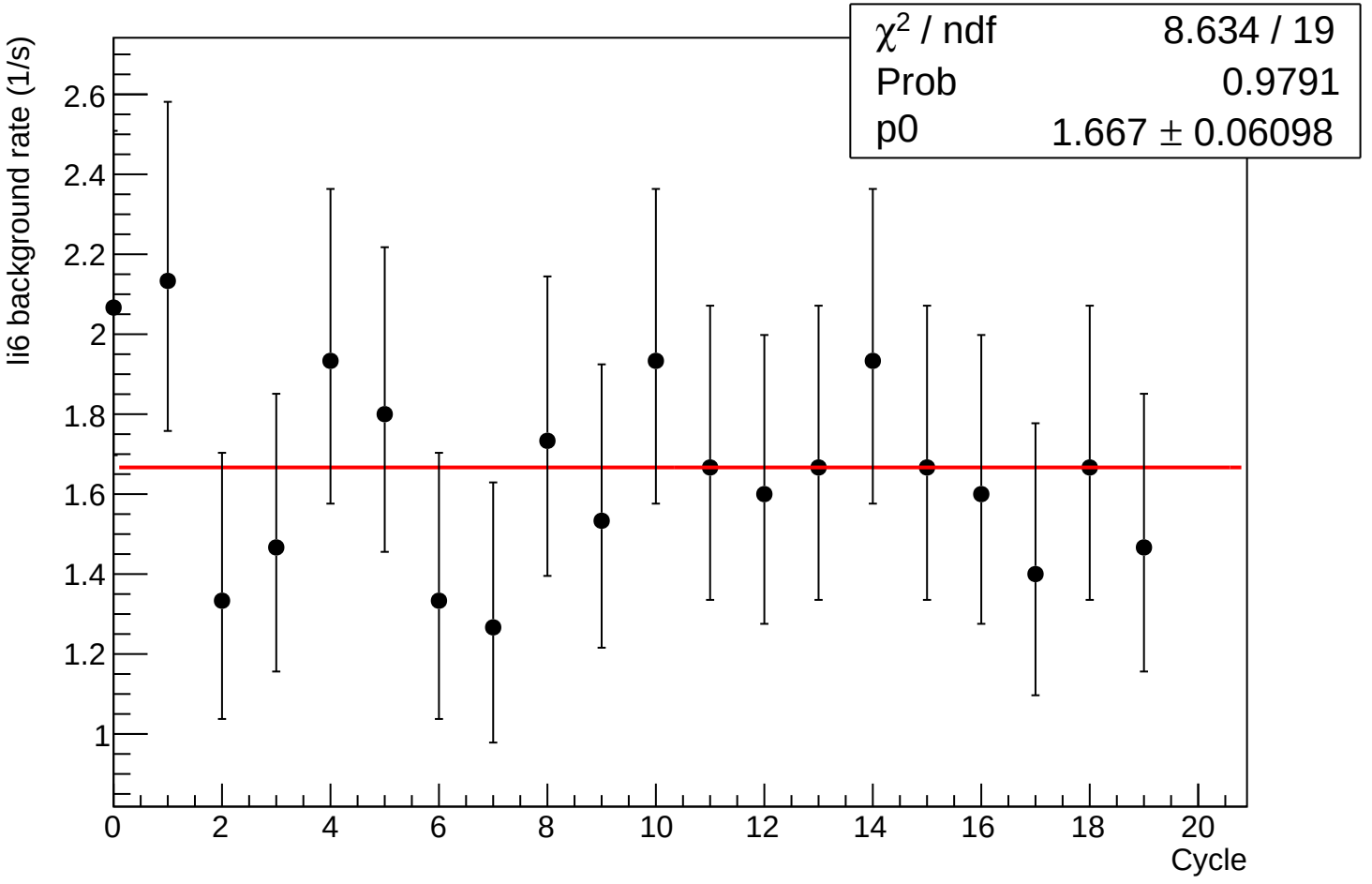
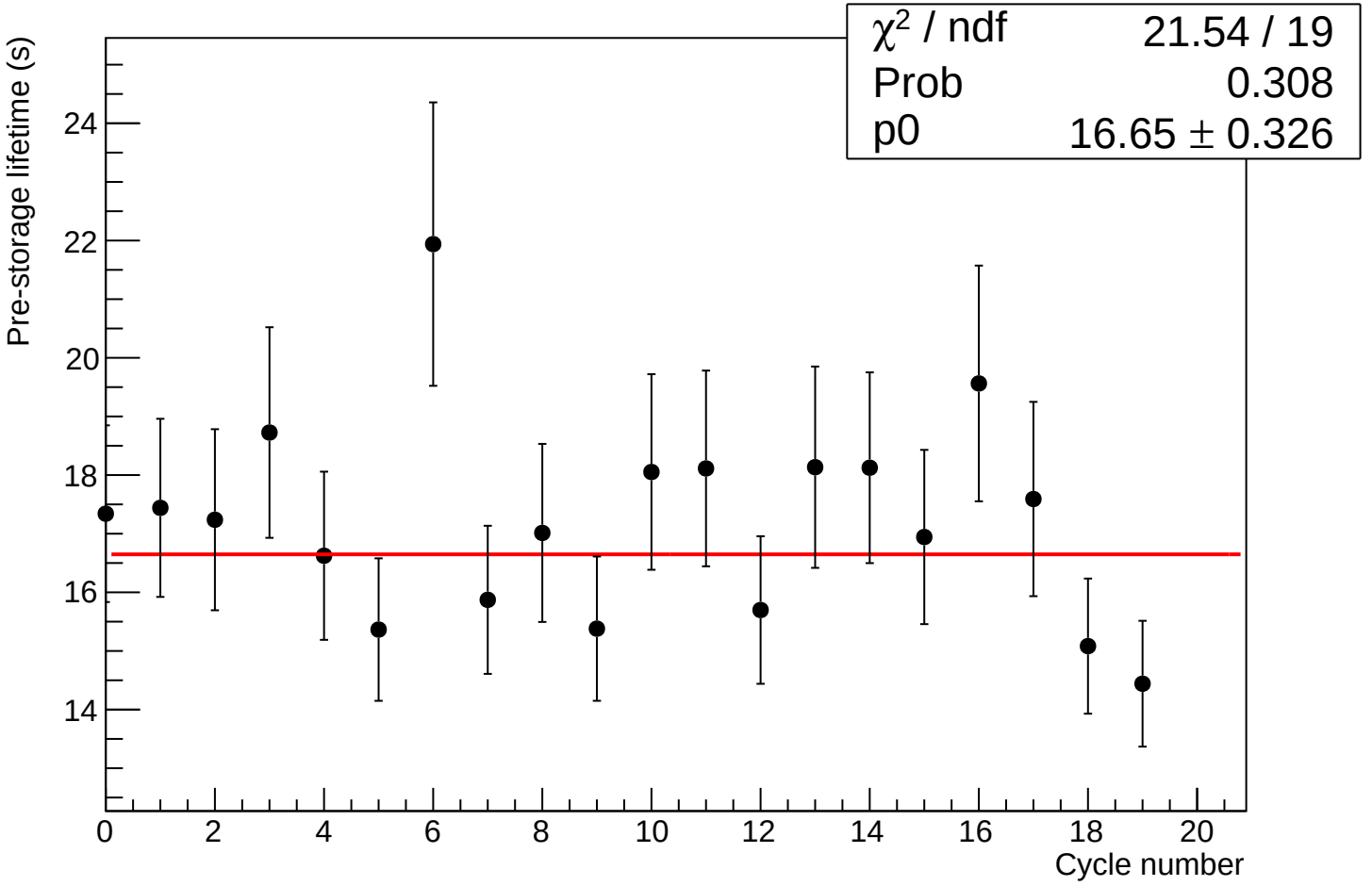
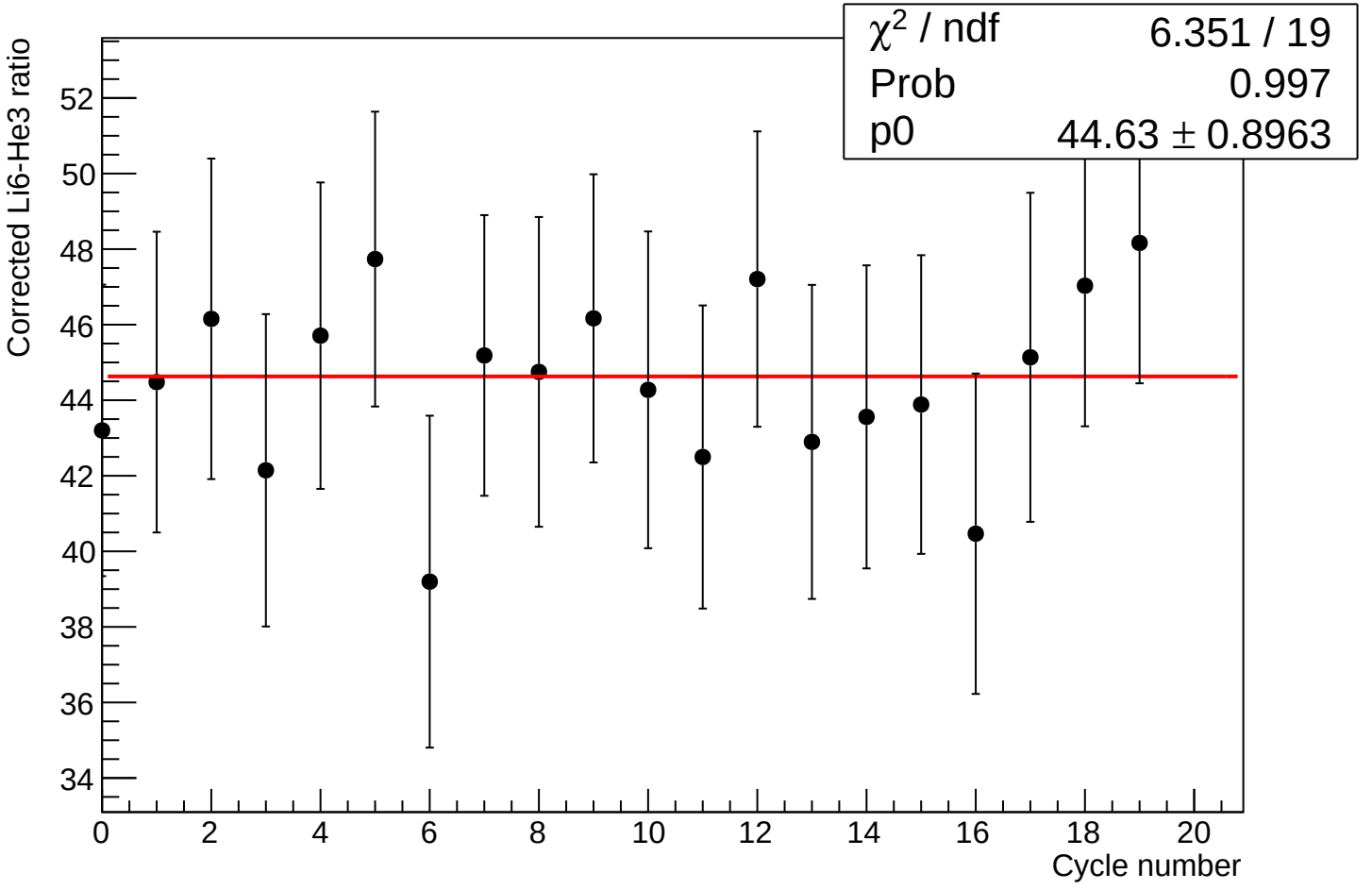
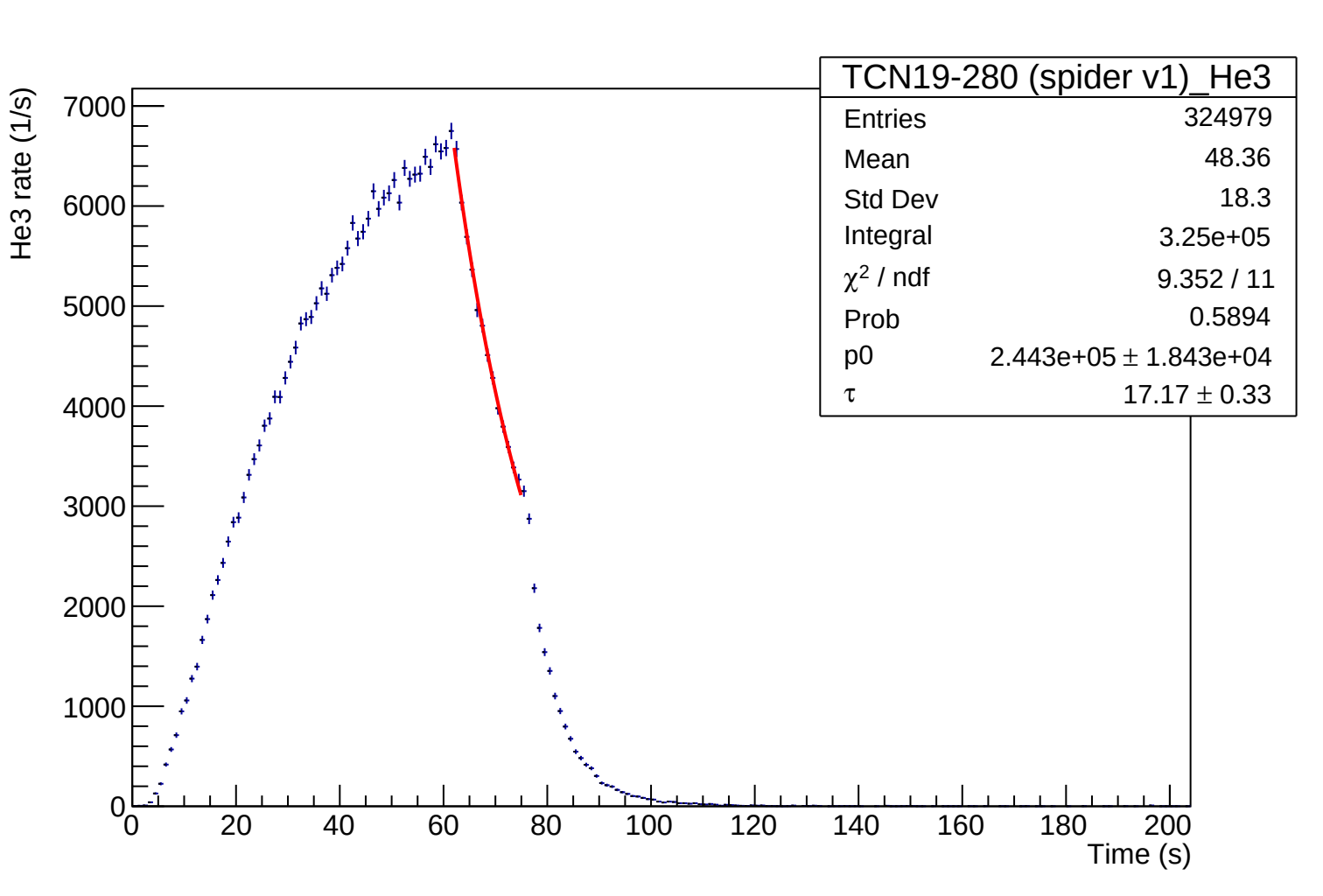

TCN19-280 (spider v1), transmission normalized during prestorage
χ^2 / ndf 17.37 / 19
Prob 0.5651
$\overline{R}_p$ 1.848 ± 0.008523
UCN-count-to-monitor ratio
1.95
1.9
1.85
1.8
1.75
0
2
4
6
8
10
12
14
16
18
Cycle

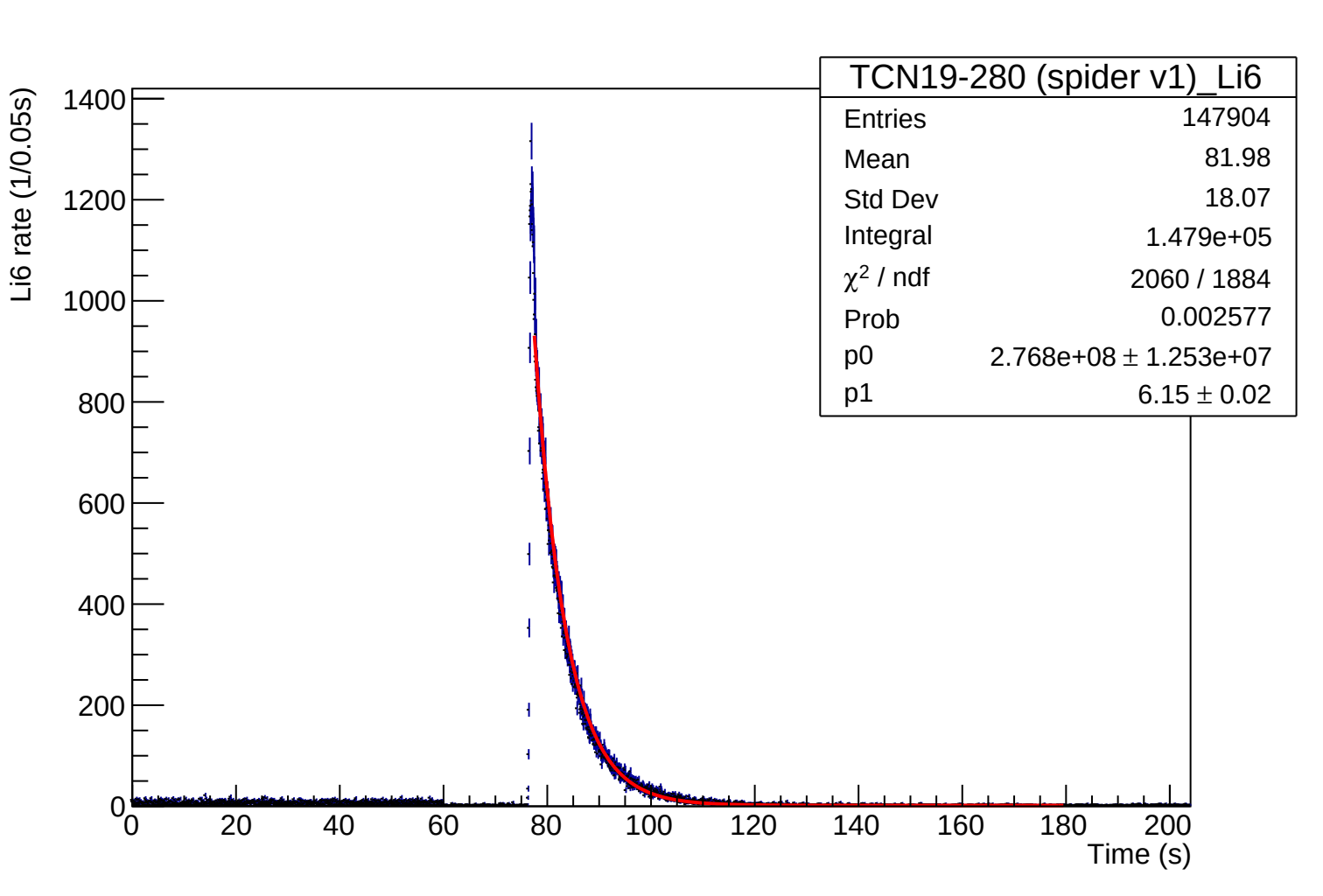

Graph
Vapor pressure (torr)
0.13
0.125
0.12
0.115
0.11
0.105
Temperature (K)
1.01
1.005
1
0.995
0.99
0.985
0
2
4
6
8
10
12
14
16
18
Cycle

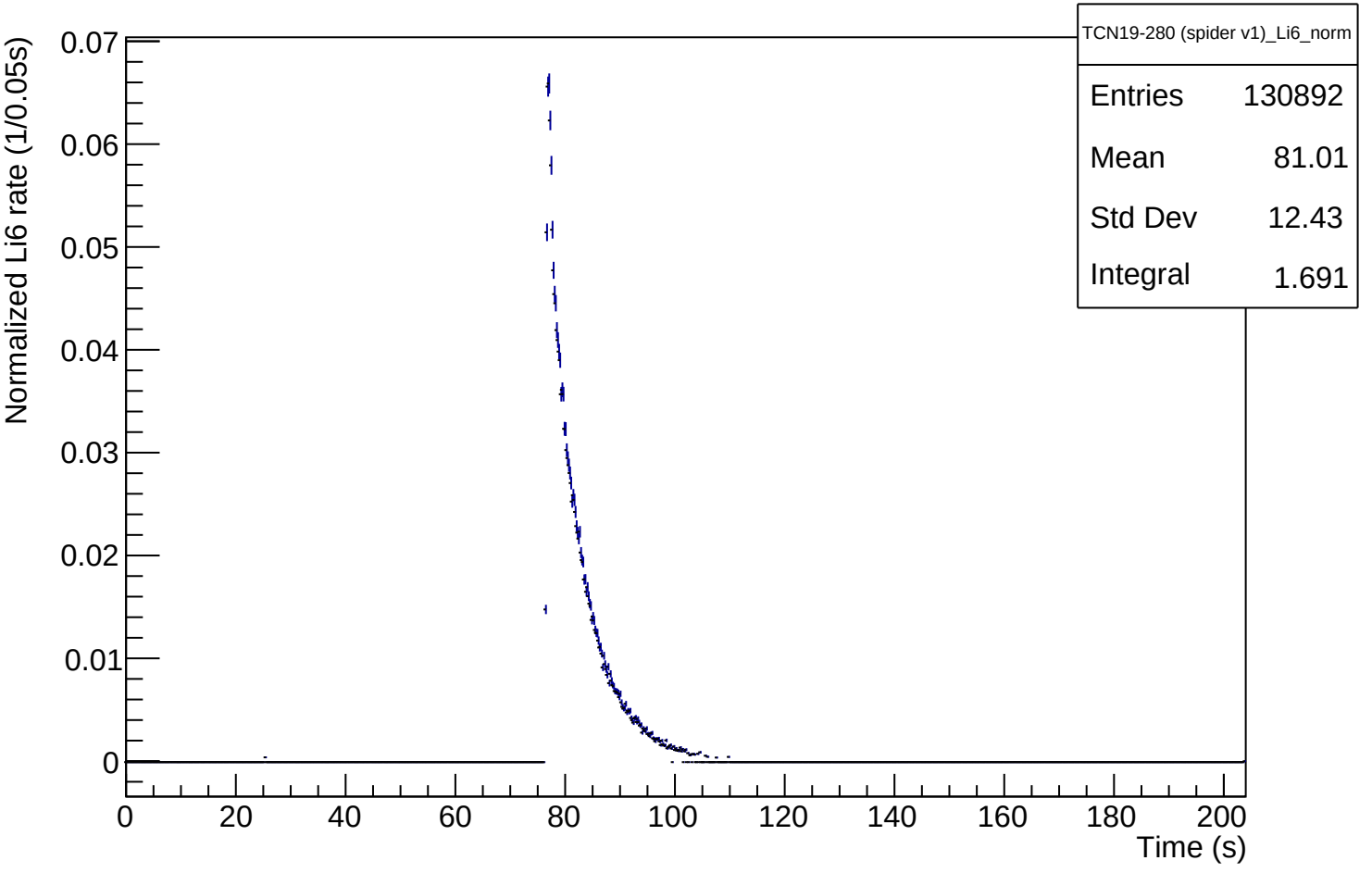

χ^2 / ndf 8.634 / 19
Prob 0.9791
p0 1.667 ± 0.06098
li6 background rate (1/s)
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0
2
4
6
8
10
12
14
16
18
20
Cycle

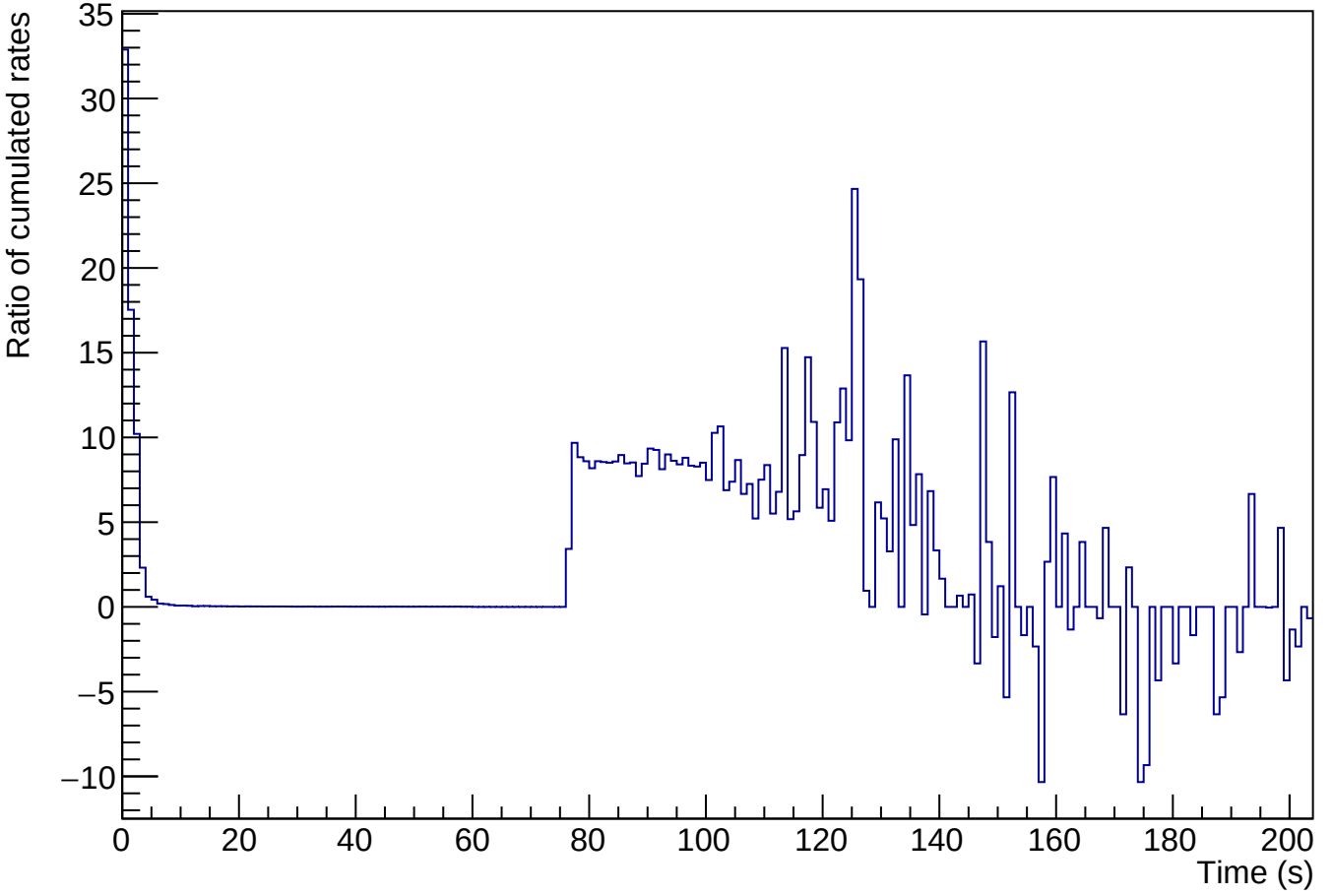

χ^2 / ndf 21.54 / 19
Prob 0.308
p0 16.65 ± 0.326
Pre-storage lifetime (s)
24
22
20
18
16
14
0
2
4
6
8
10
12
14
16
18
20
Cycle number

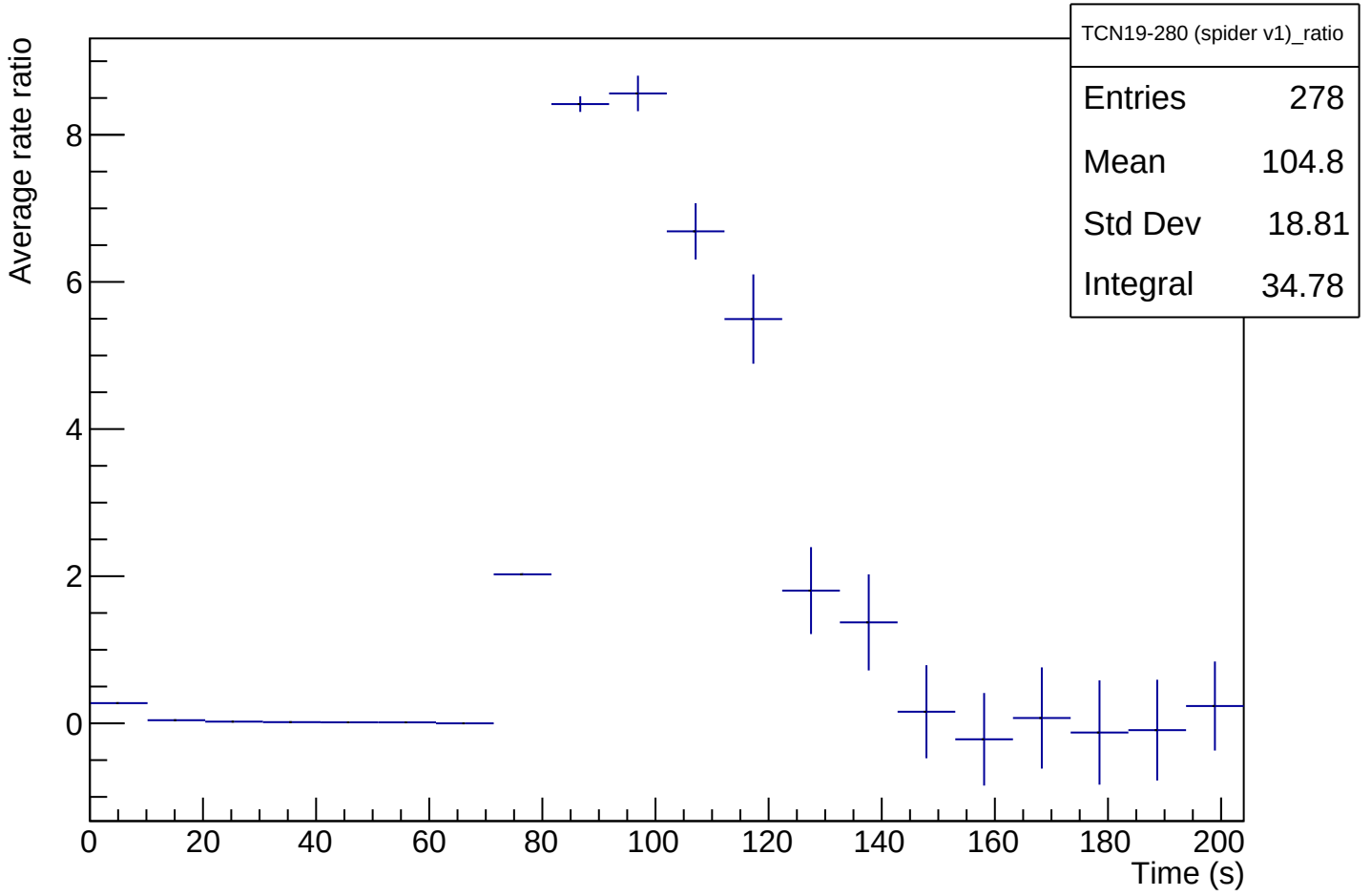

χ² / ndf 6.351 / 19
Prob 0.997
p0 44.63 ± 0.8963
Corrected Li6-He3 ratio
Cycle number
52
50
48
46
44
42
40
38
36
34
0
2
4
6
8
10
12
14
16
18
20

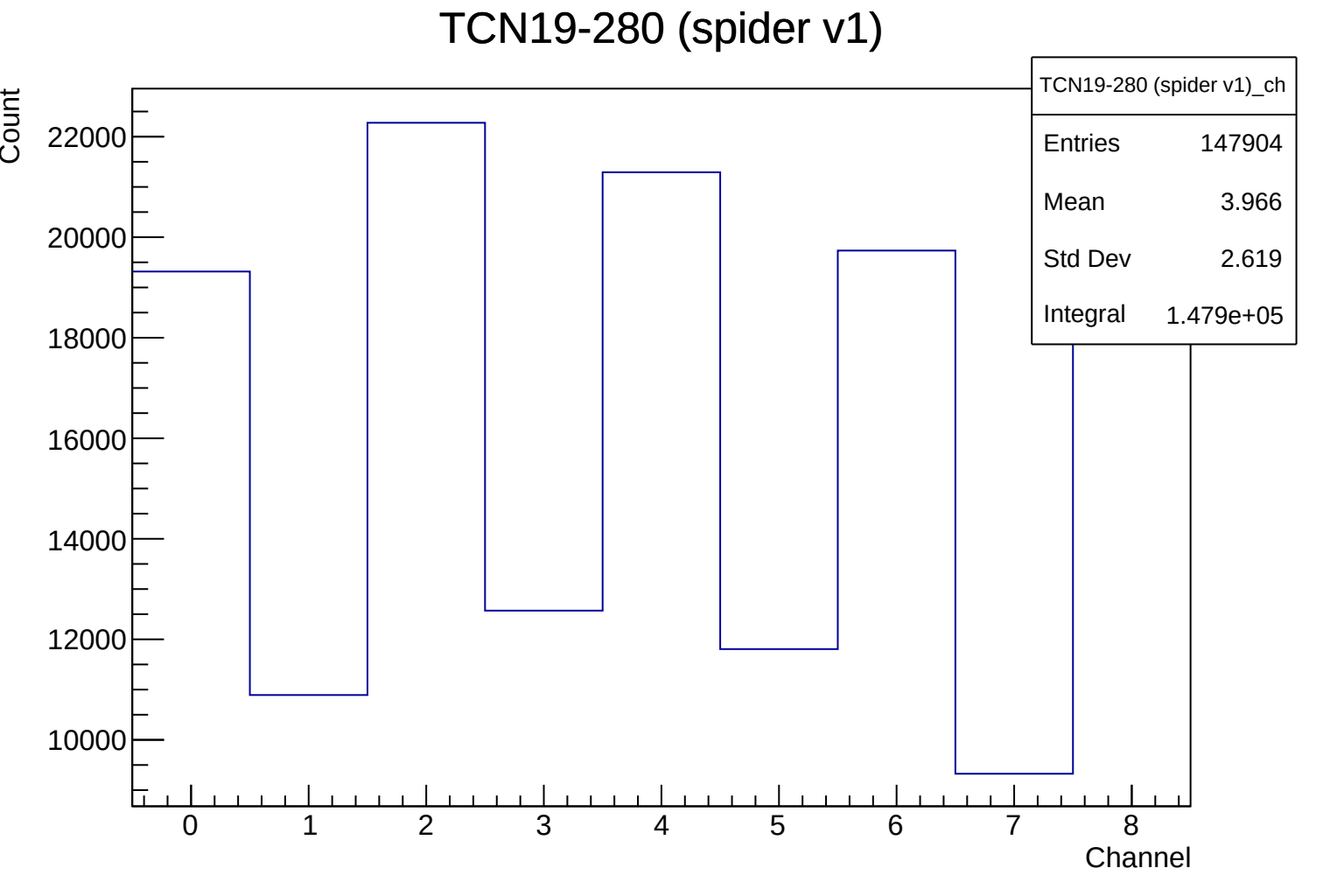

TCN19-280 (spider v1)_He3
Entries 324979
Mean 48.36
Std Dev 18.3
Integral 3.25e+05
χ² / ndf 9.352 / 11
Prob 0.5894
p0 2.443e+05 ± 1.843e+04
τ 17.17 ± 0.33
He3 rate (1/s)
Time (s)
0
1000
2000
3000
4000
5000
6000
7000
0
20
40
60
80
100
120
140
160
180
200

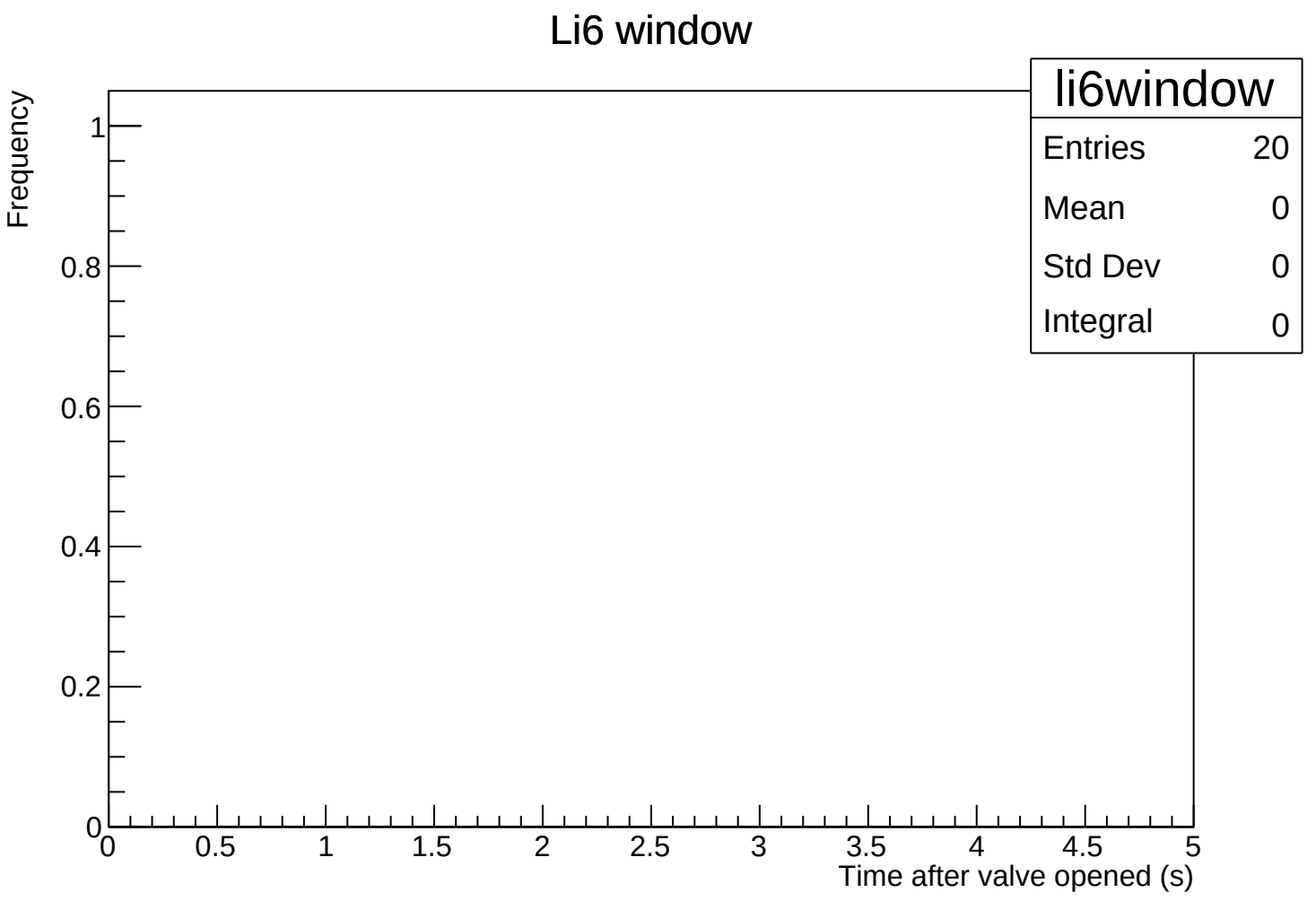

TCN19-280 (spider v1)_Li6
Entries 147904
Mean 81.98
Std Dev 18.07
Integral 1.479e+05
χ² / ndf 2060 / 1884
Prob 0.002577
p0 2.768e+08 ± 1.253e+07
p1 6.15 ± 0.02
Li6 rate (1/0.05s)
Time (s)
0
200
400
600
800
1000
1200
1400
0
20
40
60
80
100
120
140
160
180
200


TCN19-280 (spider v1)_Li6_norm
Entries 130892
Mean 81.01
Std Dev 12.43
Integral 1.691
Normalized Li6 rate (1/0.05s)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0 20 40 60 80 100 120 140 160 180 200
Time (s)


Ratio of cumulated rates
35
30
25
20
15
10
5
0
−5
−10
0
20
40
60
80
100
120
140
160
180
200
Time (s)


TCN19-280 (spider v1)_ratio
Entries 278
Mean 104.8
Std Dev 18.81
Integral 34.78
Average rate ratio
Time (s)
0
2
4
6
8
0
20
40
60
80
100
120
140
160
180
200


TCN19-280 (spider v1)
TCN19-280 (spider v1)_ch
Entries 147904
Mean 3.966
Std Dev 2.619
Integral 1.479e+05
Count
22000
20000
18000
16000
14000
12000
10000
0
1
2
3
4
5
6
7
8
Channel


Li6 window
li6window
Entries 20
Mean 0
Std Dev 0
Integral 0
Frequency
1
0.8
0.6
0.4
0.2
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Time after valve opened (s)