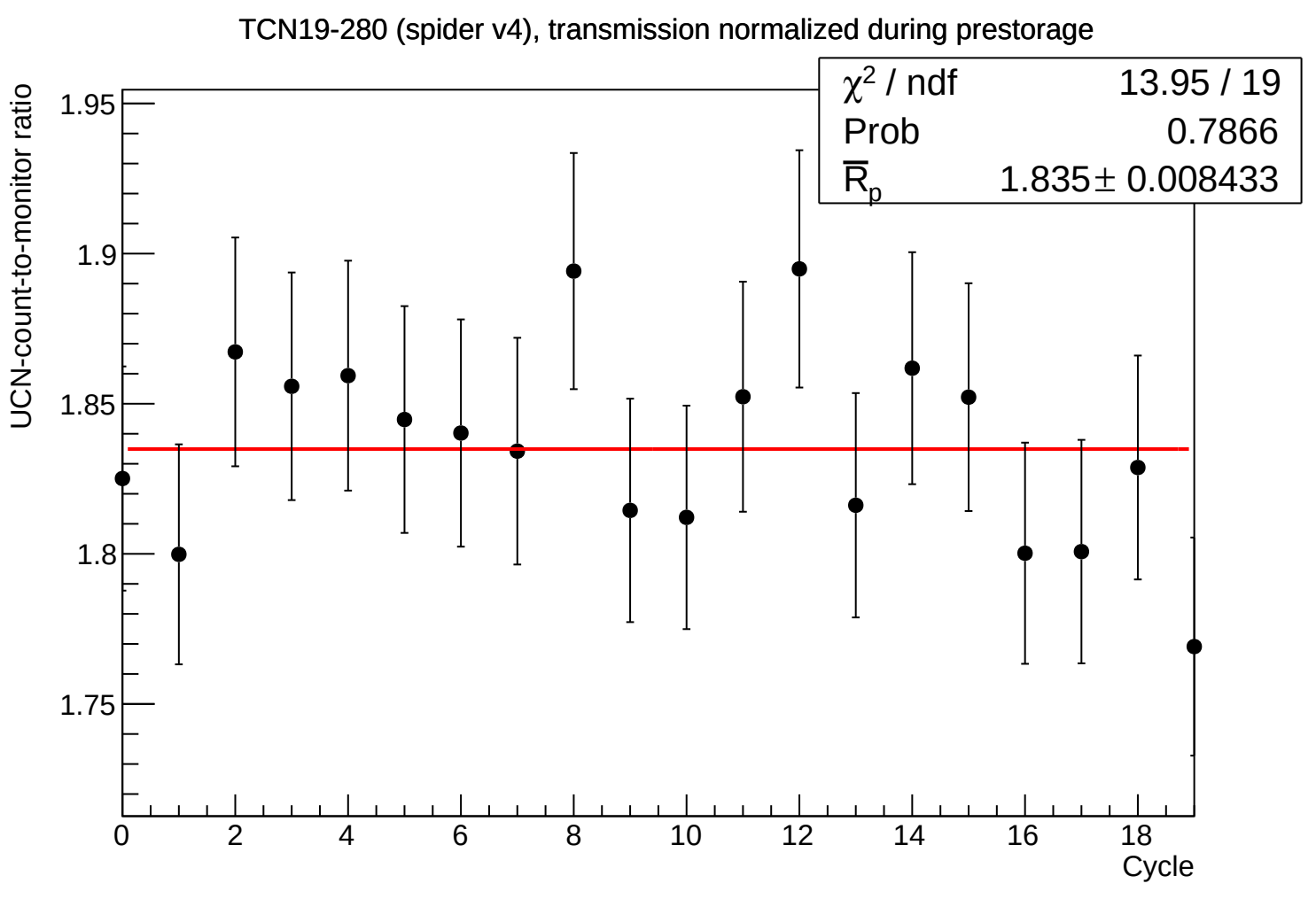
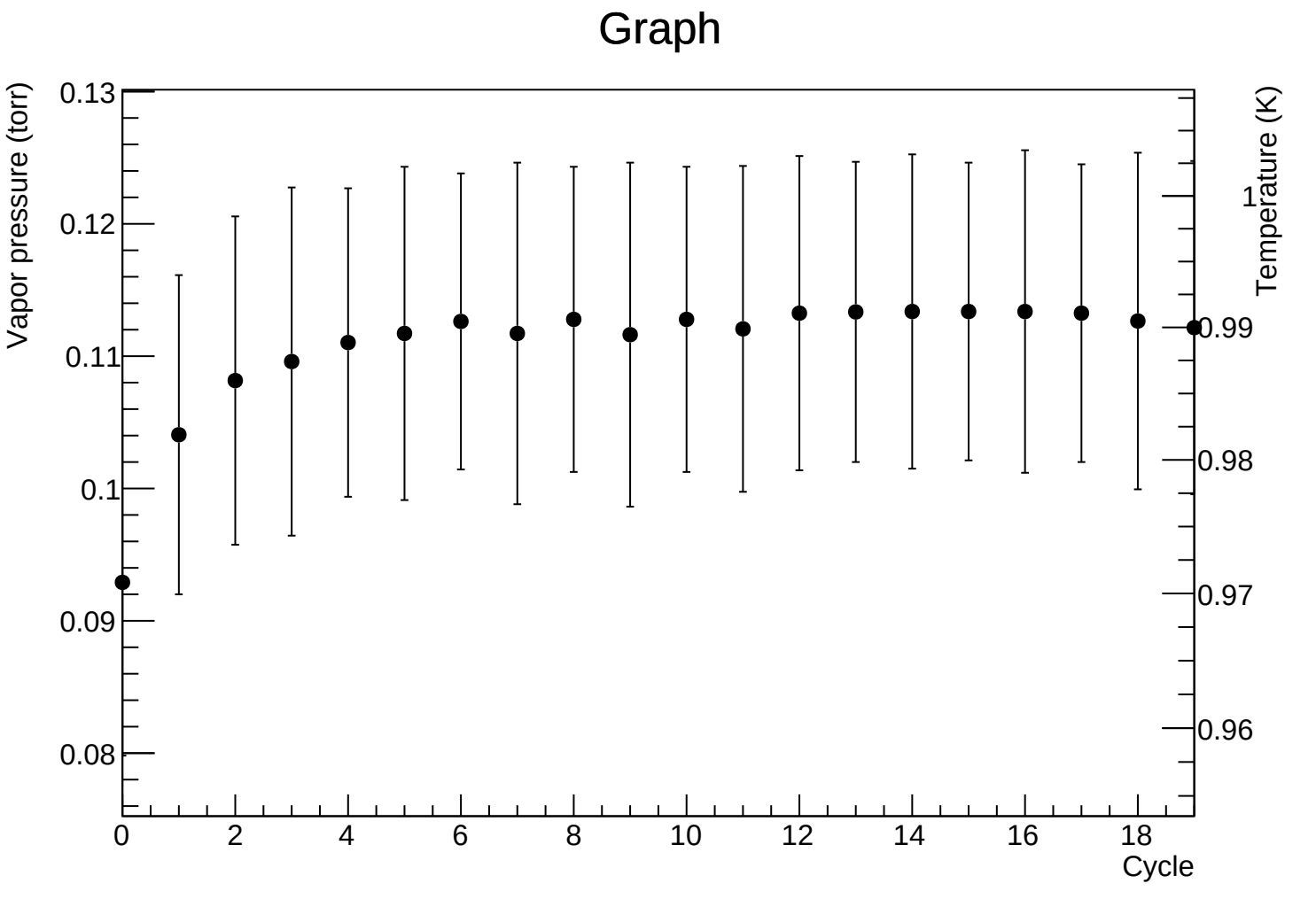
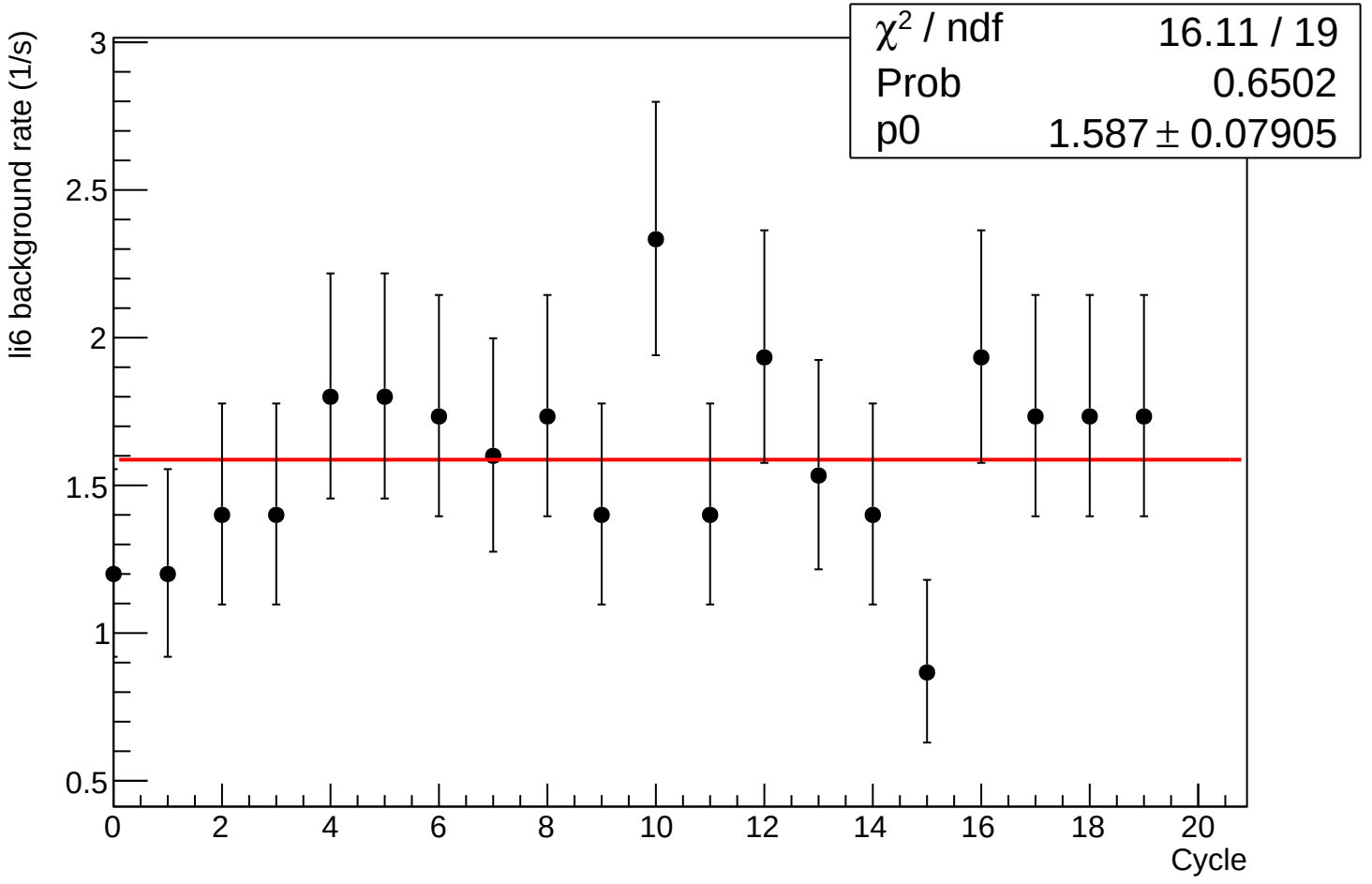
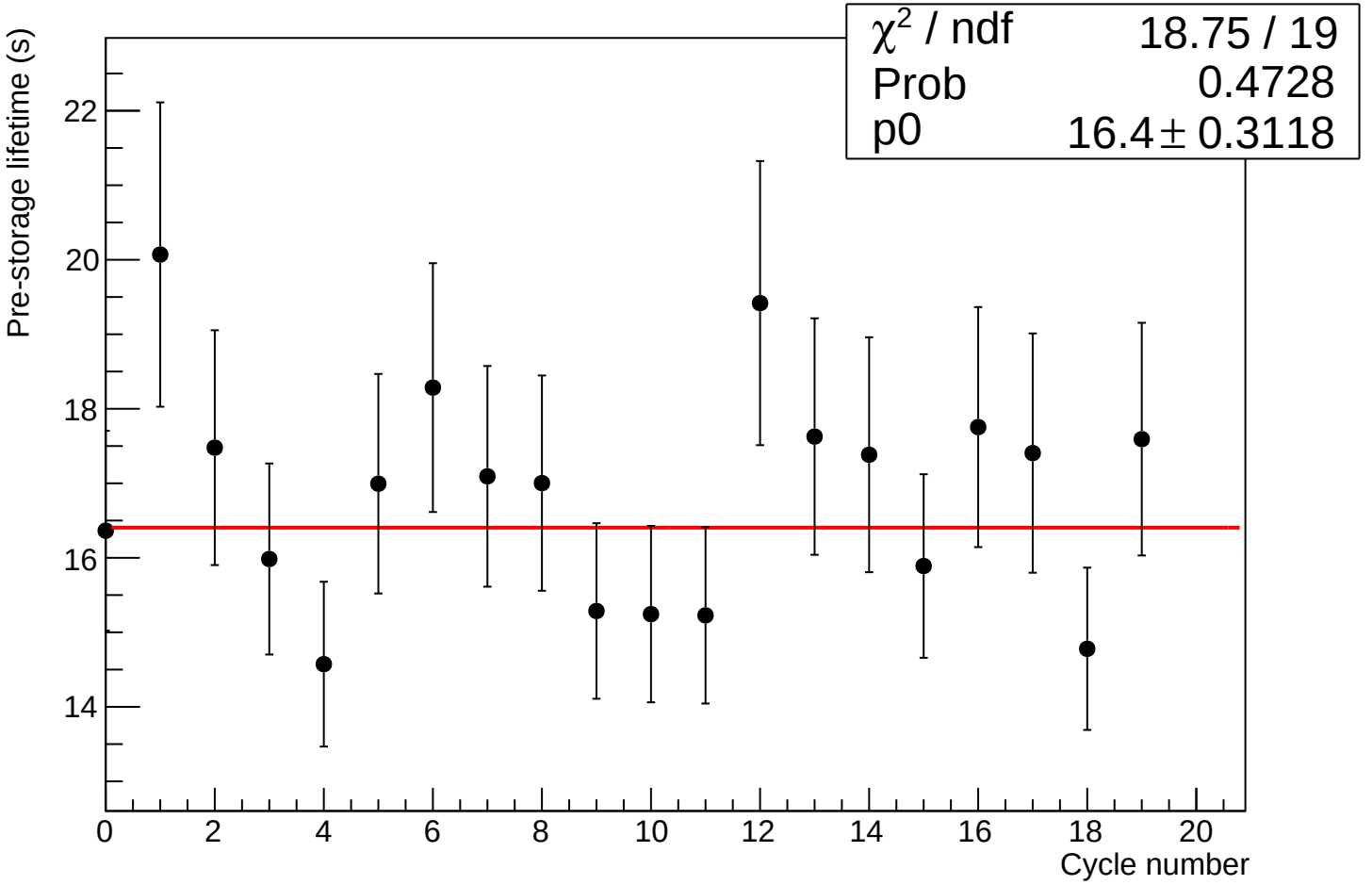
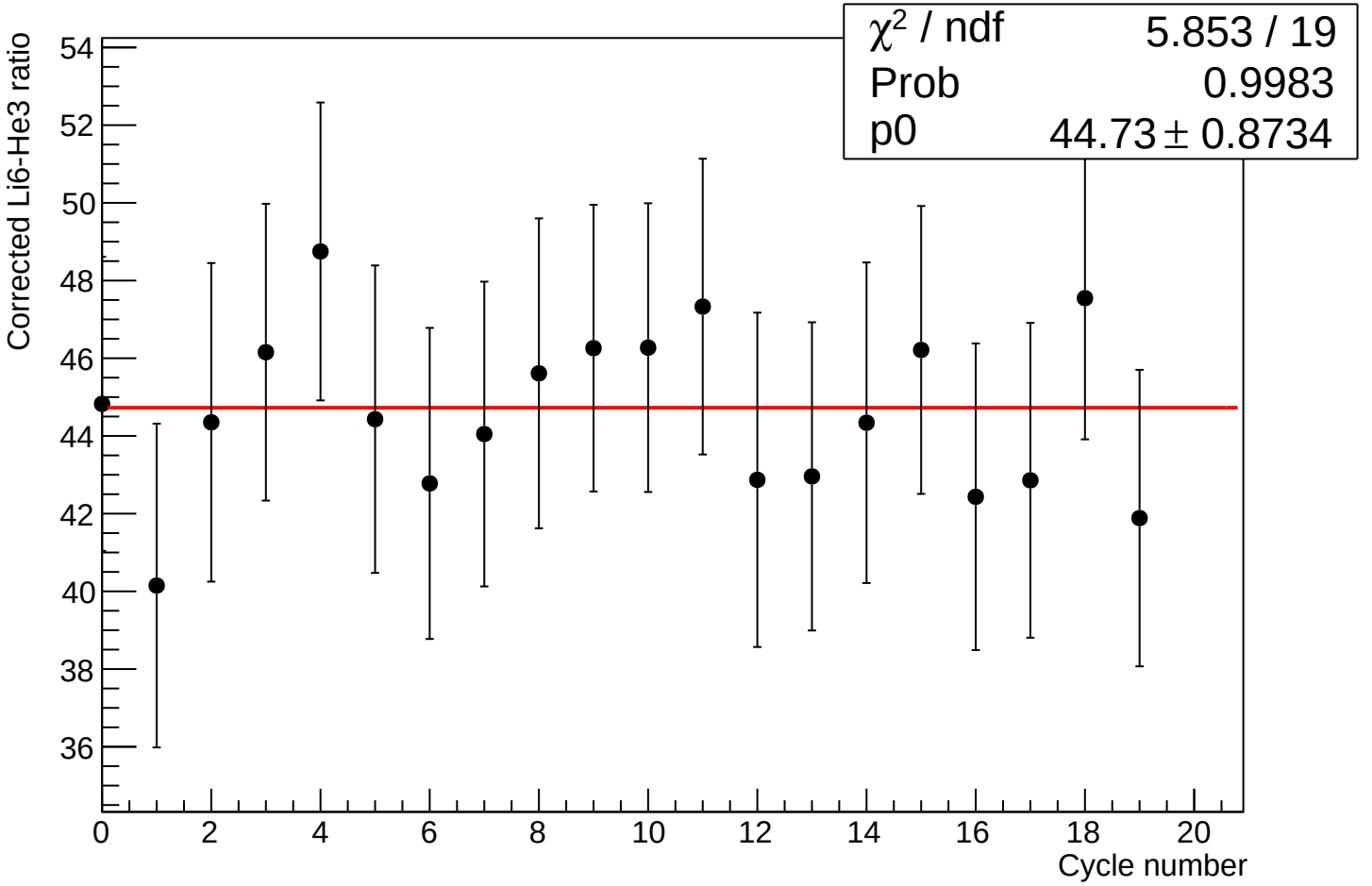
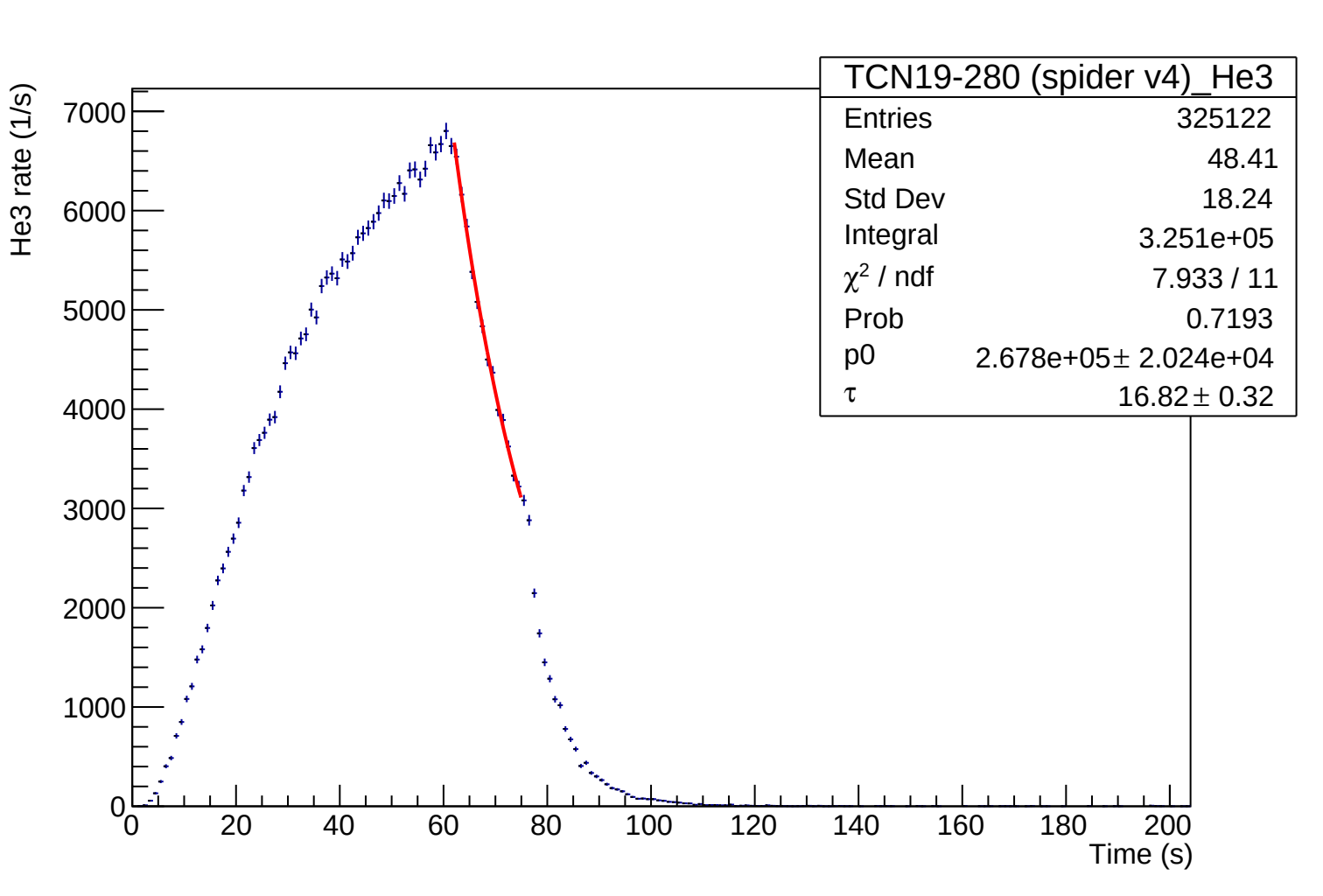

TCN19-280 (spider v4), transmission normalized during prestorage
χ^2 / ndf 13.95 / 19
Prob 0.7866
$\overline{R}_p$ 1.835 ± 0.008433
UCN-count-to-monitor ratio
1.95
1.9
1.85
1.8
1.75
0
2
4
6
8
10
12
14
16
18
Cycle

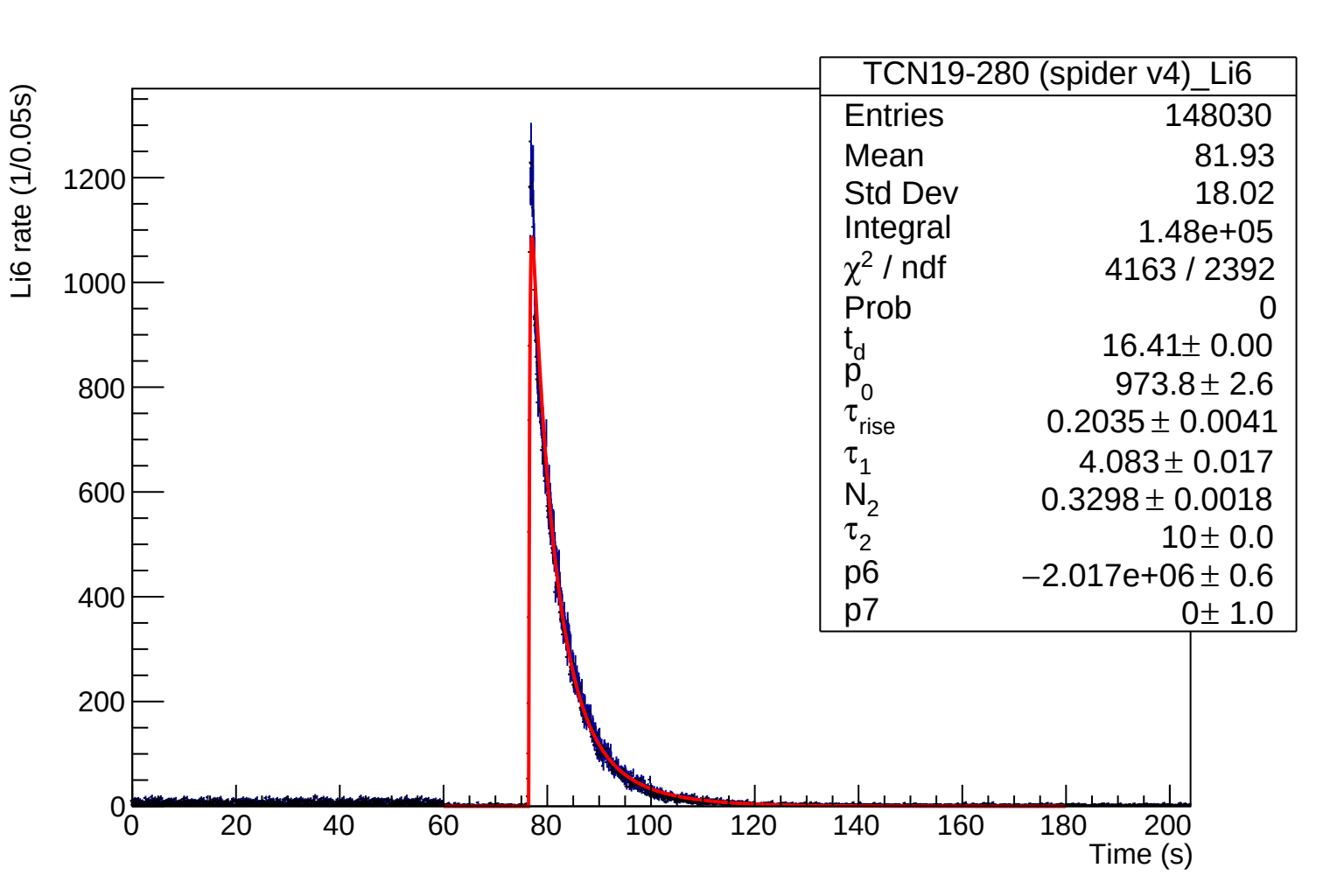

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.13
0.12
0.11
0.1
0.09
0.08
1
0.99
0.98
0.97
0.96
0
2
4
6
8
10
12
14
16
18

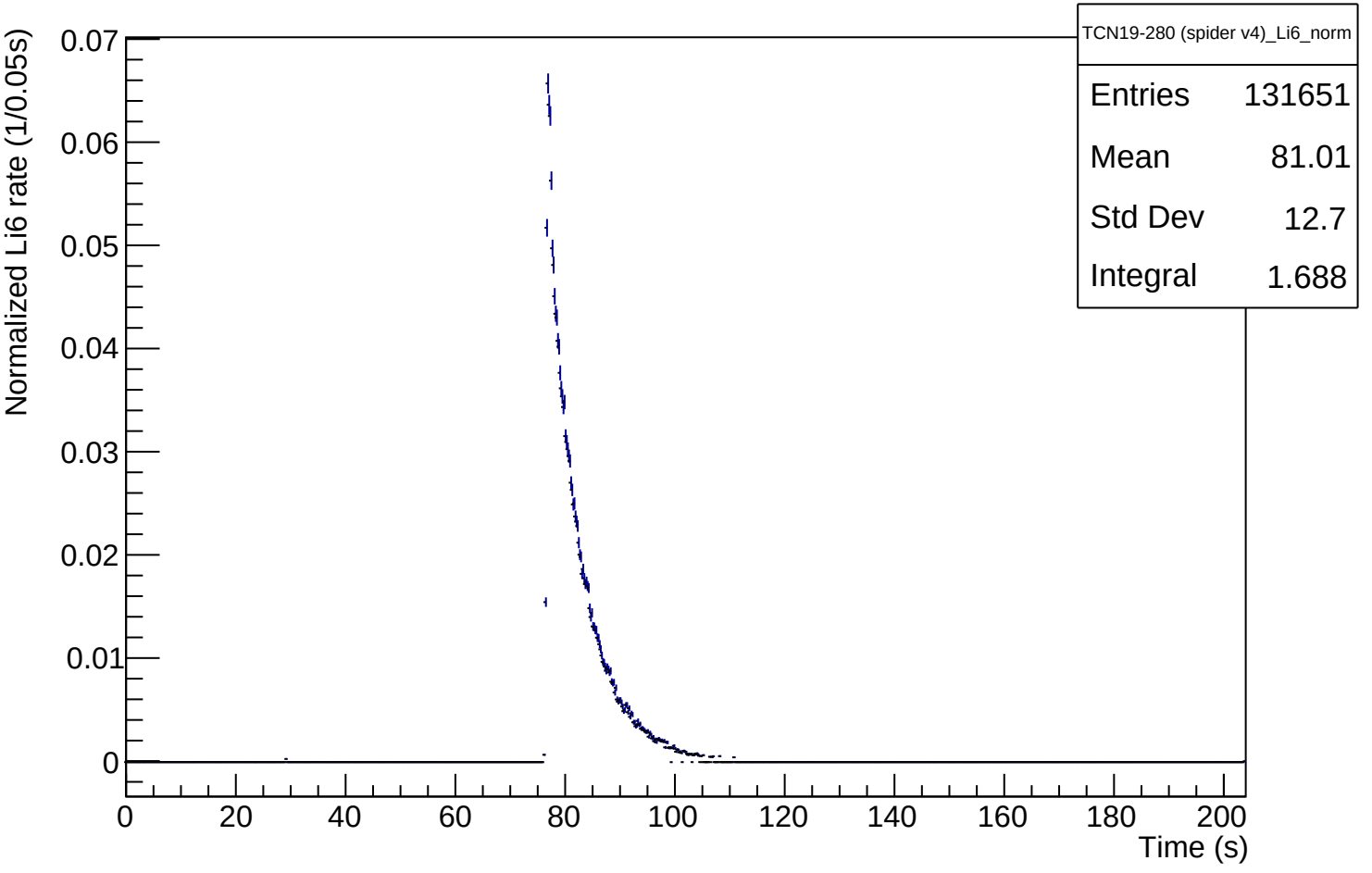

li6 background rate (1/s)
3
2.5
2
1.5
1
0.5
0
2
4
6
8
10
12
14
16
18
20
Cycle
χ² / ndf 16.11 / 19
Prob 0.6502
p0 1.587 ± 0.07905

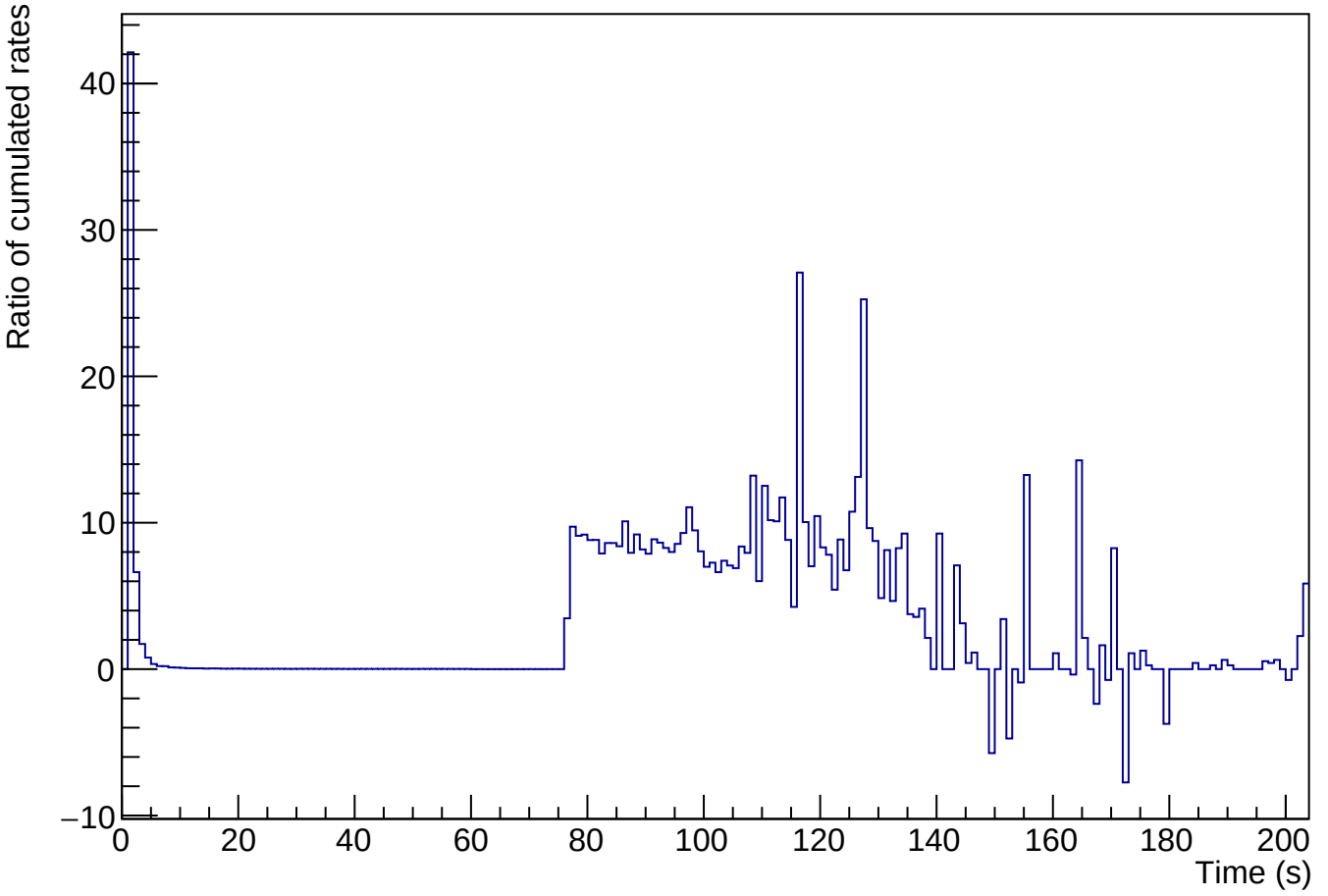

χ^2 / ndf 18.75 / 19
Prob 0.4728
p0 16.4 ± 0.3118
Pre-storage lifetime (s)
22
20
18
16
14
0
2
4
6
8
10
12
14
16
18
20
Cycle number

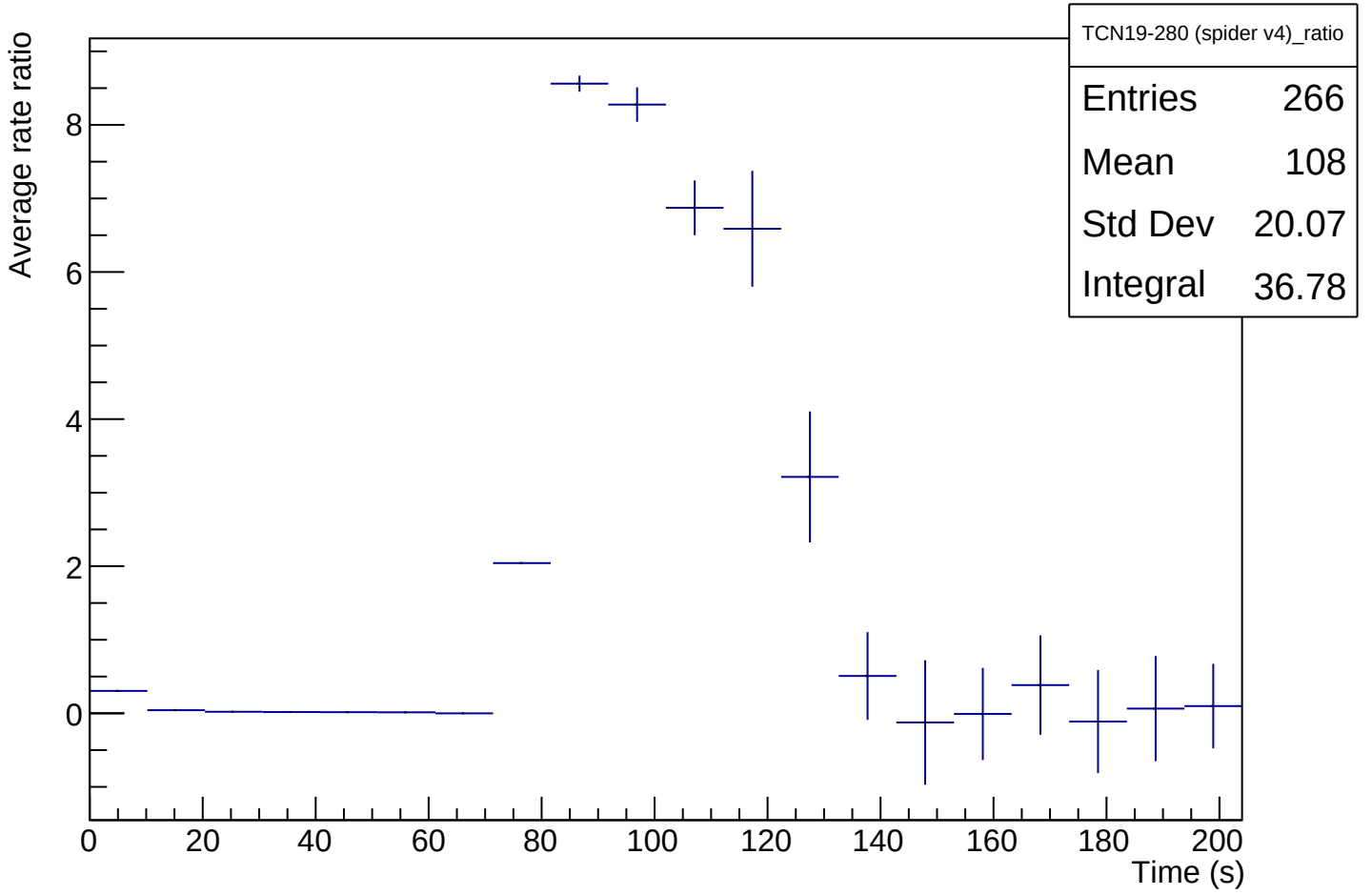

χ^2 / ndf 5.853 / 19
Prob 0.9983
p0 44.73 ± 0.8734
Corrected Li6-He3 ratio
Cycle number
54
52
50
48
46
44
42
40
38
36
0
2
4
6
8
10
12
14
16
18
20

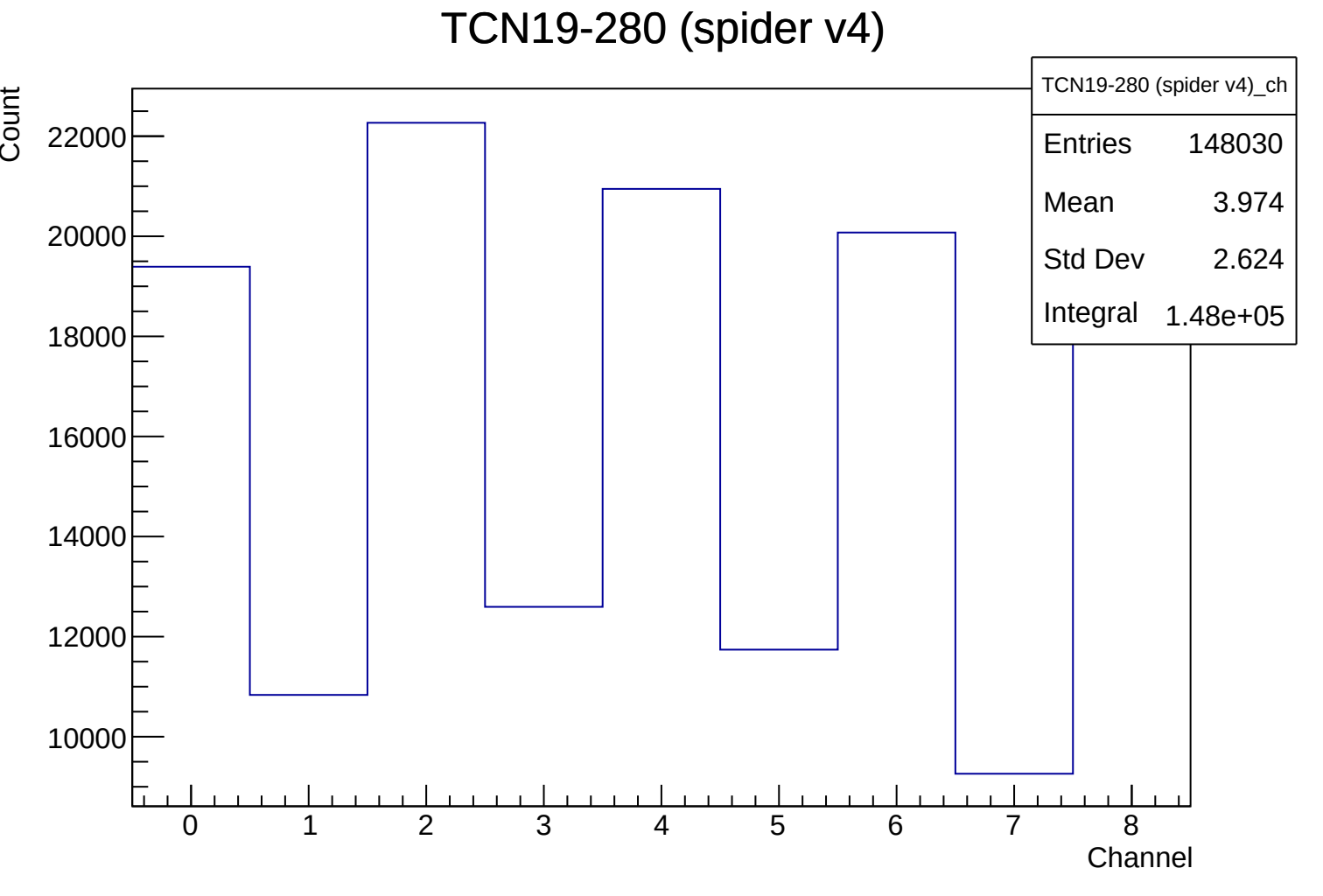

TCN19-280 (spider v4)_He3
Entries 325122
Mean 48.41
Std Dev 18.24
Integral 3.251e+05
χ² / ndf 7.933 / 11
Prob 0.7193
p0 2.678e+05 ± 2.024e+04
τ 16.82 ± 0.32
He3 rate (1/s)
Time (s)
0
1000
2000
3000
4000
5000
6000
7000
0
20
40
60
80
100
120
140
160
180
200

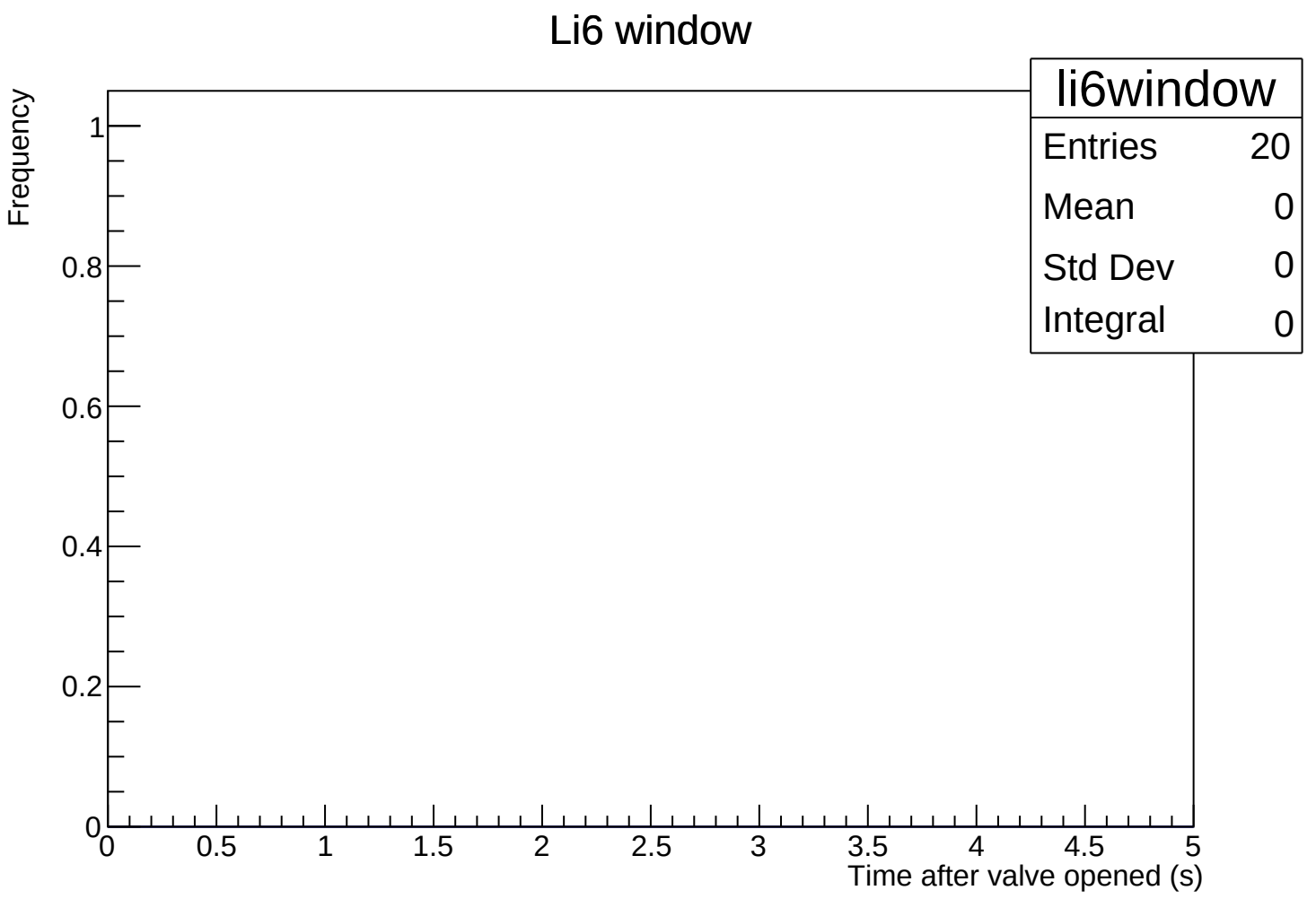

TCN19-280 (spider v4)_Li6
Entries 148030
Mean 81.93
Std Dev 18.02
Integral 1.48e+05
χ^2 / ndf 4163 / 2392
Prob 0
t_d 16.41 ± 0.00
p_0 973.8 ± 2.6
τ_{rise} 0.2035 ± 0.0041
τ_1 4.083 ± 0.017
N_2 0.3298 ± 0.0018
τ_2 10 ± 0.0
p6 −2.017e+06 ± 0.6
p7 0 ± 1.0
Li6 rate (1/0.05s)
Time (s)
0
200
400
600
800
1000
1200
0
20
40
60
80
100
120
140
160
180
200


TCN19-280 (spider v4)_Li6_norm
Entries 131651
Mean 81.01
Std Dev 12.7
Integral 1.688
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
40
30
20
10
0
−10
0
20
40
60
80
100
120
140
160
180
200
Time (s)


TCN19-280 (spider v4)_ratio
Entries 266
Mean 108
Std Dev 20.07
Integral 36.78
Average rate ratio
0
2
4
6
8
0
20
40
60
80
100
120
140
160
180
200
Time (s)


TCN19-280 (spider v4)
TCN19-280 (spider v4)_ch
Entries 148030
Mean 3.974
Std Dev 2.624
Integral 1.48e+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
0
0.2
0.4
0.6
0.8
1
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Time after valve opened (s)