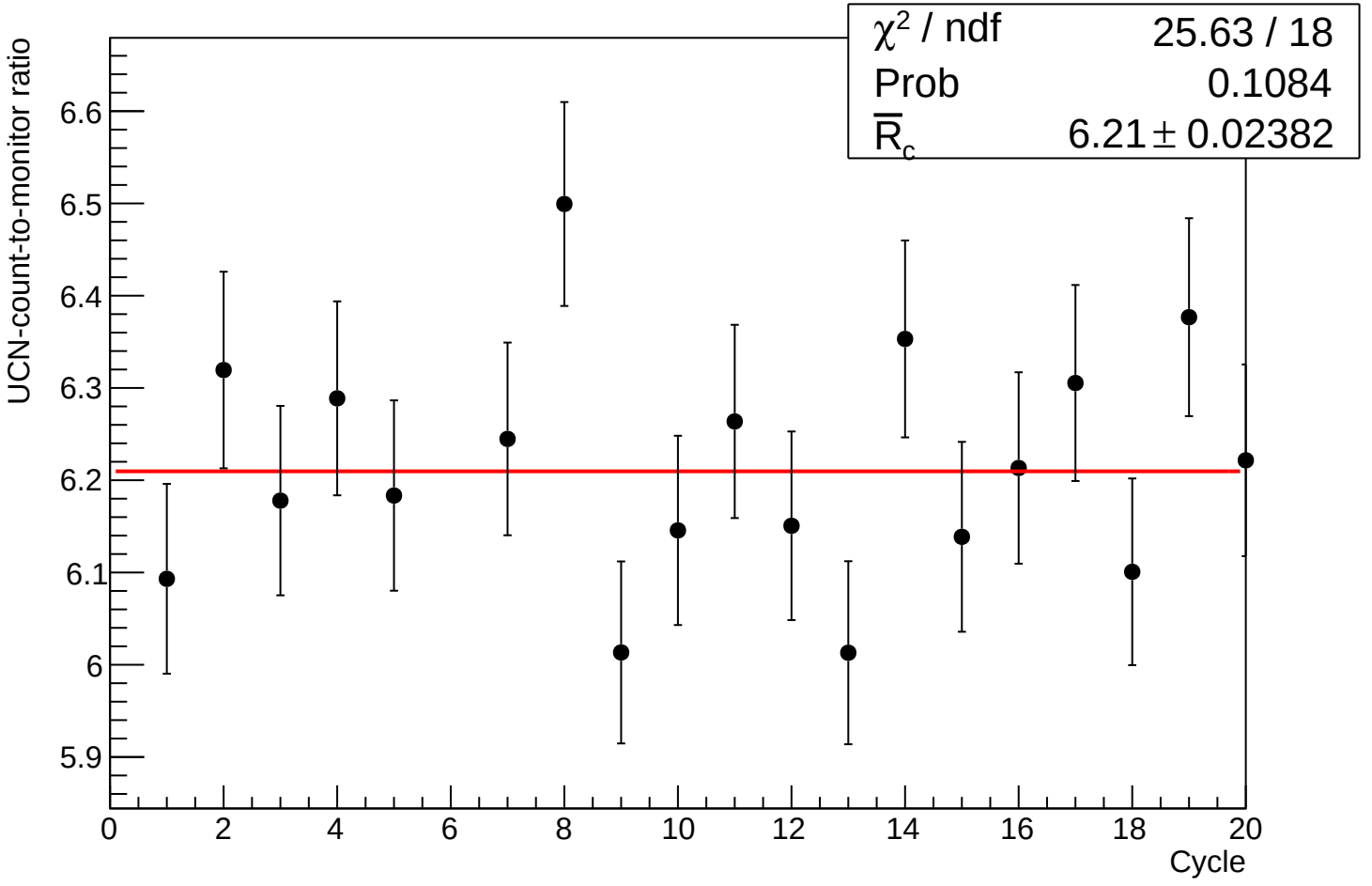
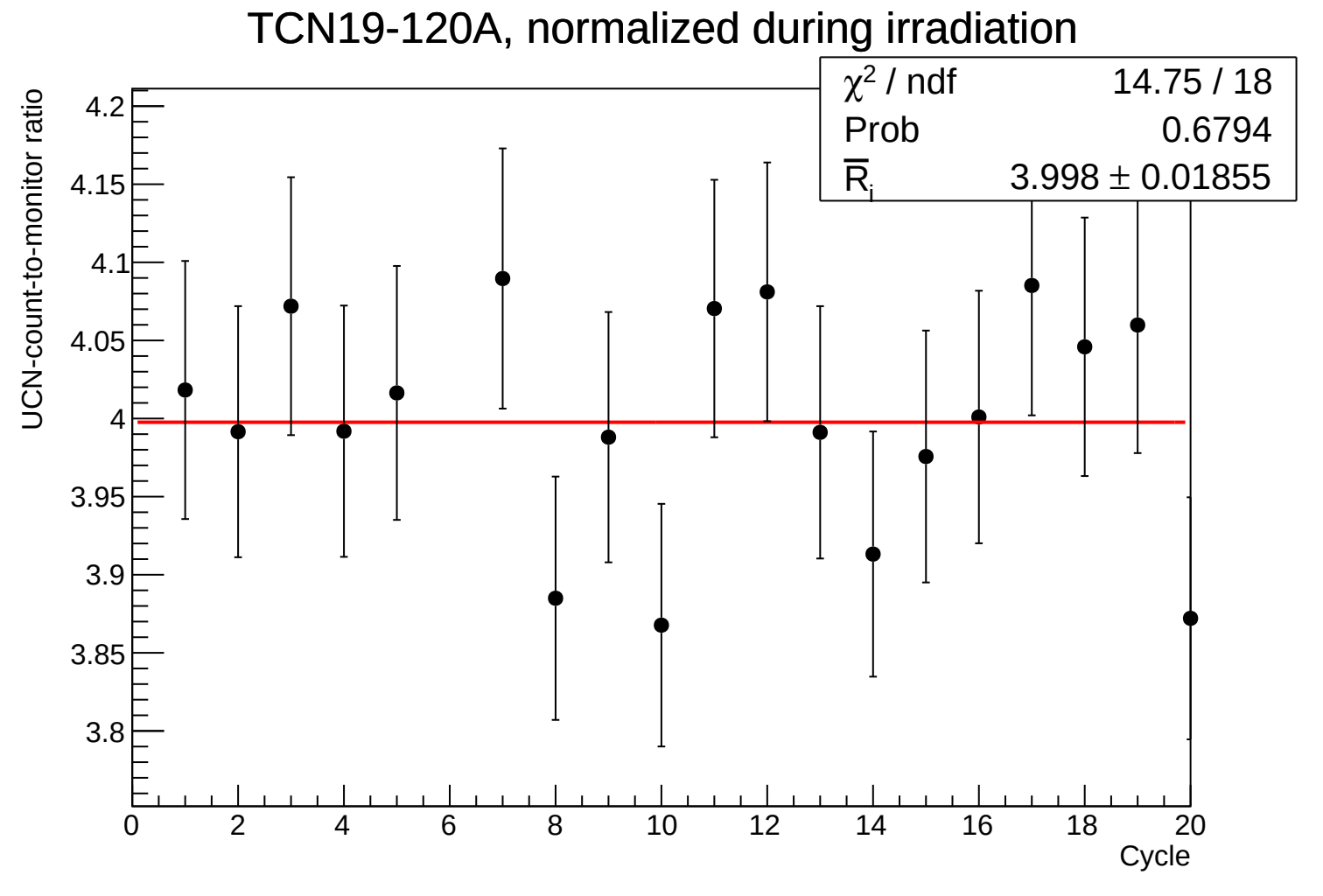
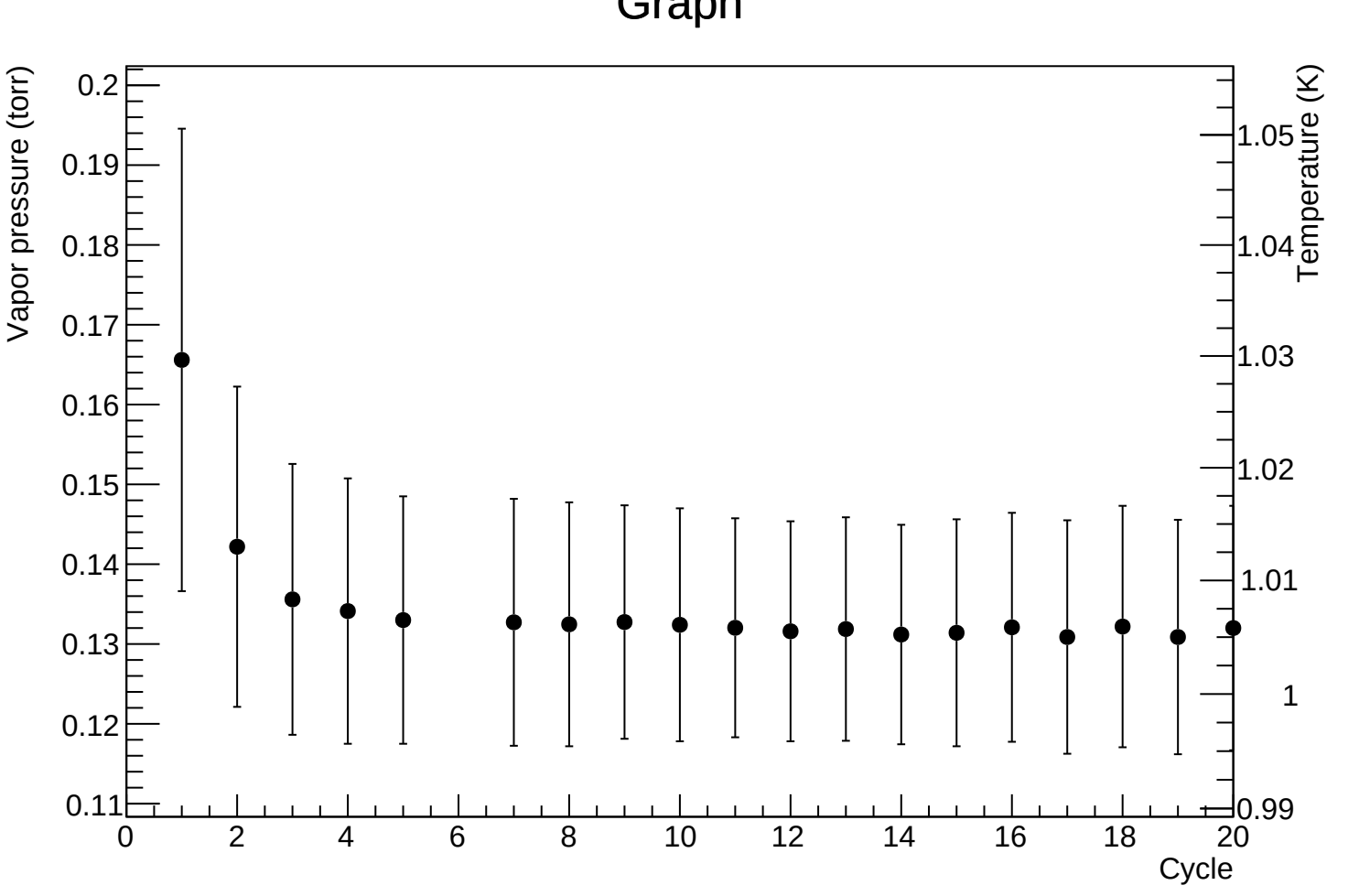
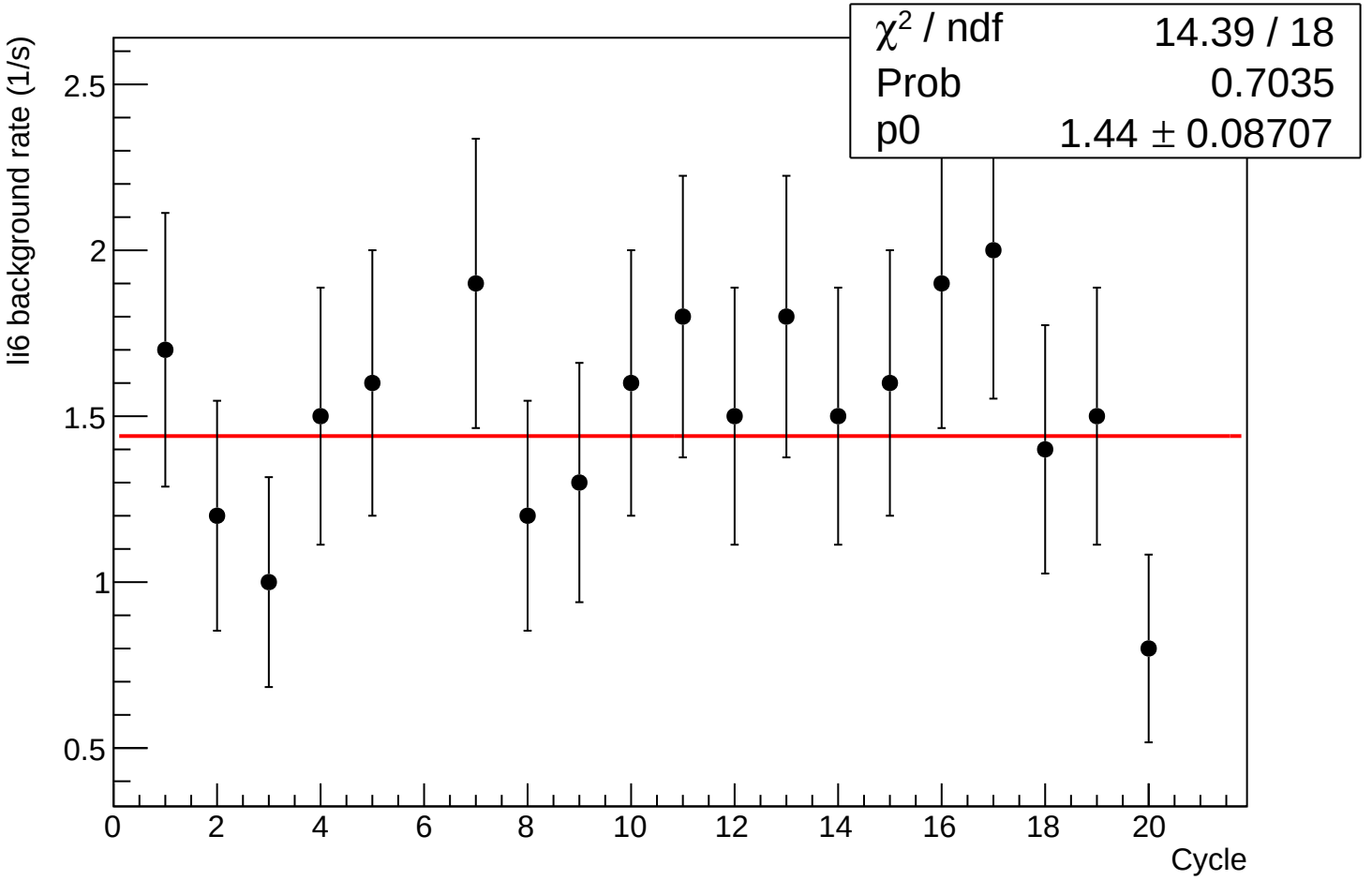
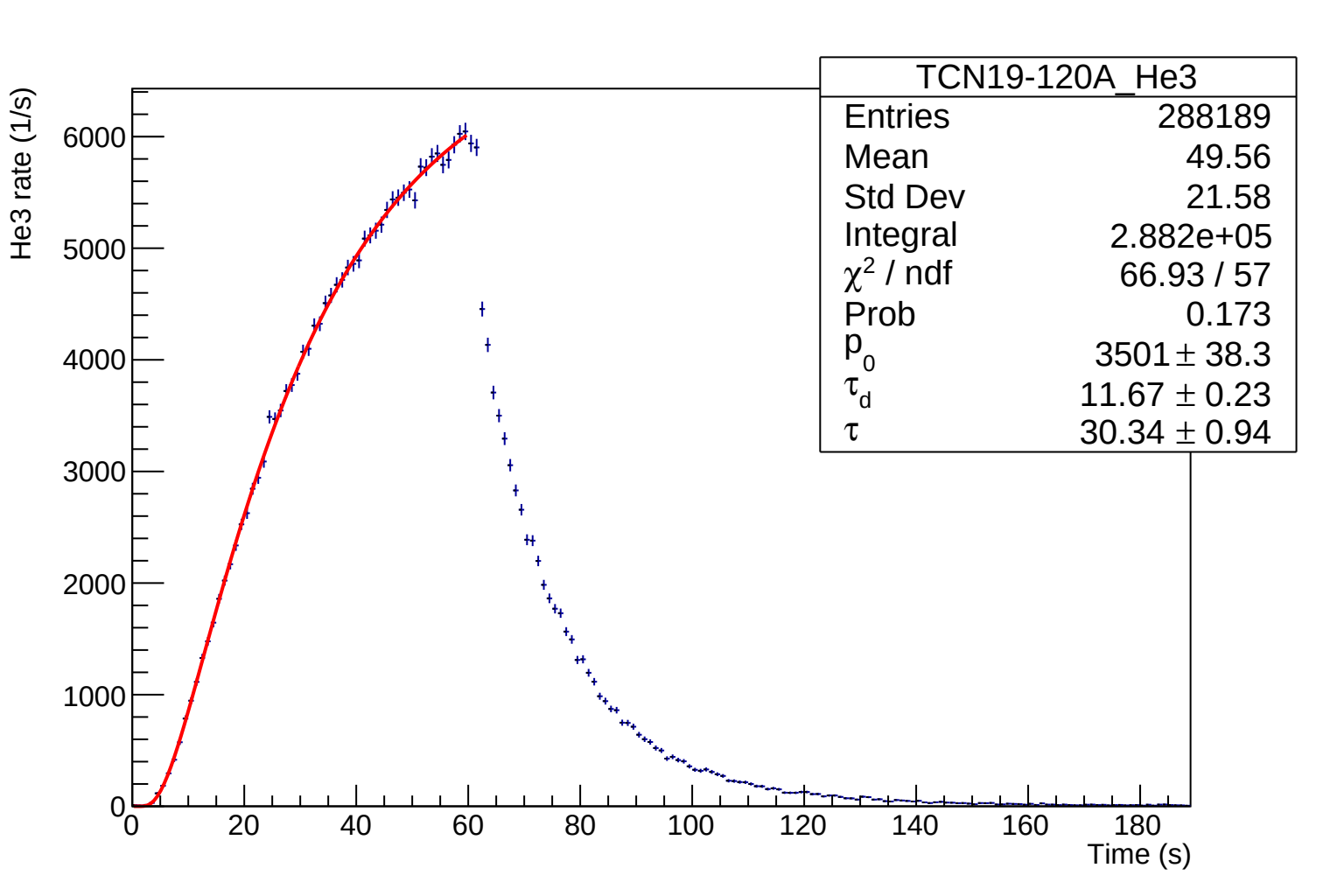
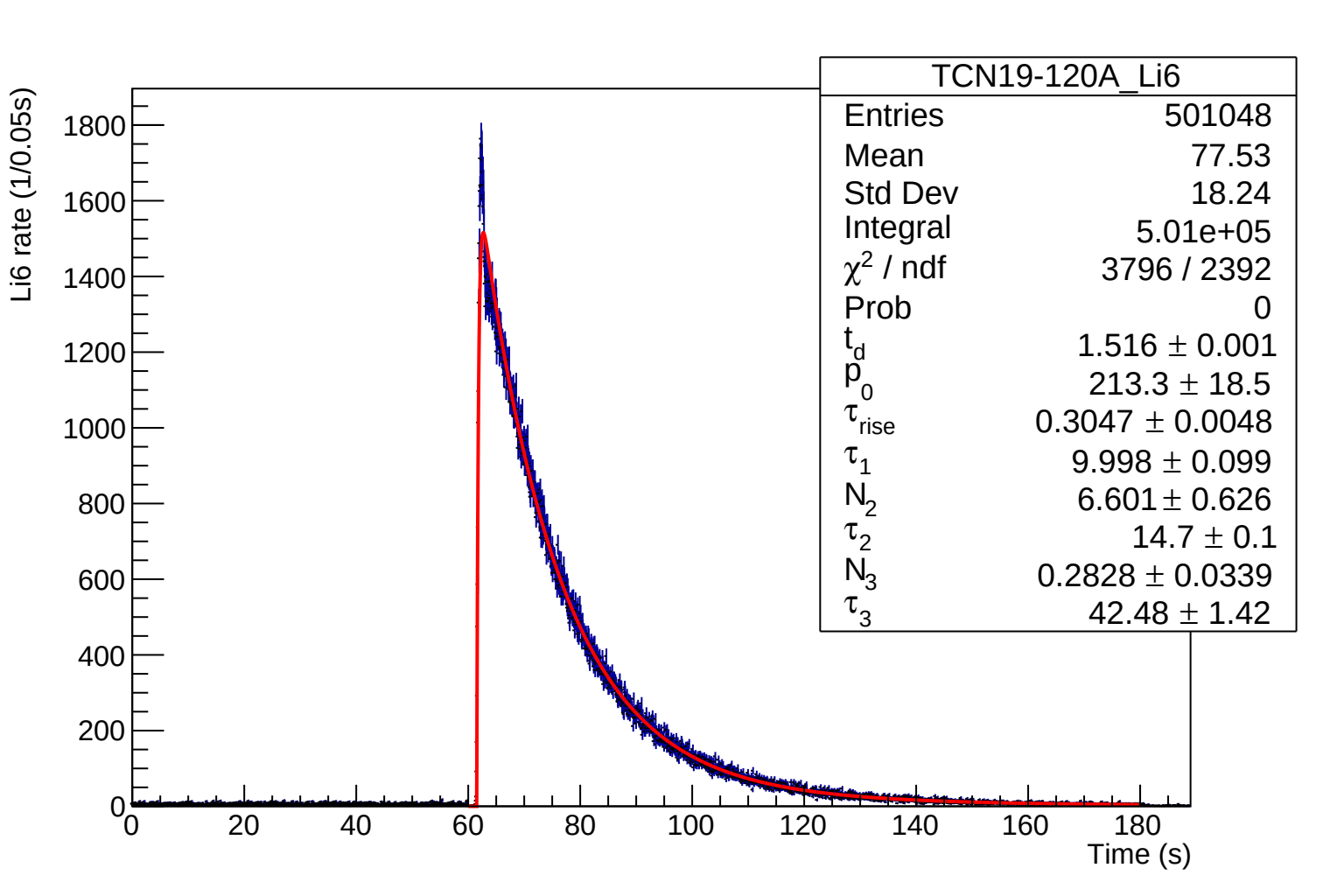

TCN19-120A, normalized during counting
χ^2 / ndf 25.63 / 18
Prob 0.1084
$\overline{R}_c$ 6.21 ± 0.02382
UCN-count-to-monitor ratio
6.6
6.5
6.4
6.3
6.2
6.1
6
5.9
0
2
4
6
8
10
12
14
16
18
20
Cycle

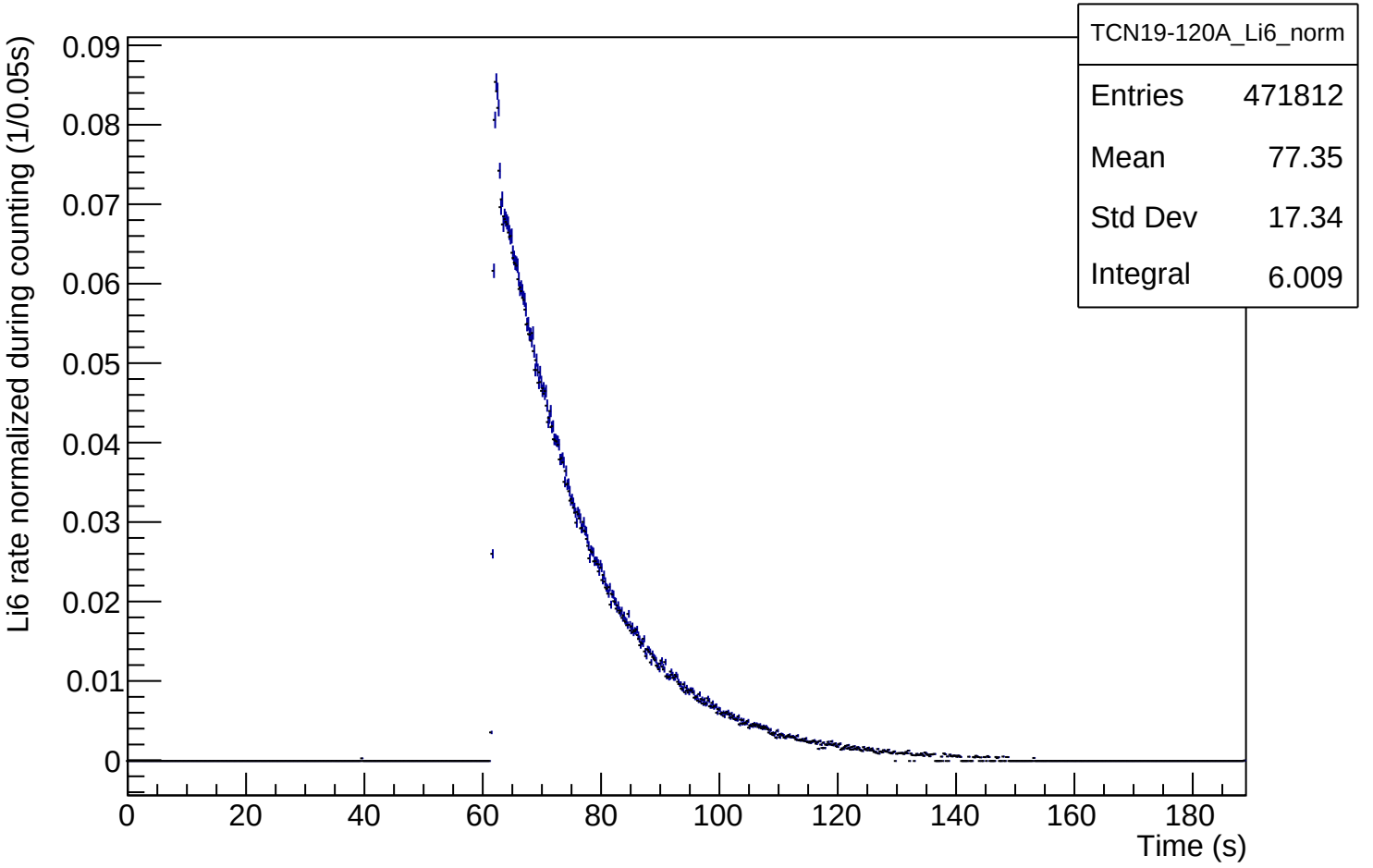

TCN19-120A, normalized during irradiation
χ^2 / ndf 14.75 / 18
Prob 0.6794
$\overline{R}_i$ 3.998 ± 0.01855
UCN-count-to-monitor ratio
4.2
4.15
4.1
4.05
4
3.95
3.9
3.85
3.8
0
2
4
6
8
10
12
14
16
18
20
Cycle

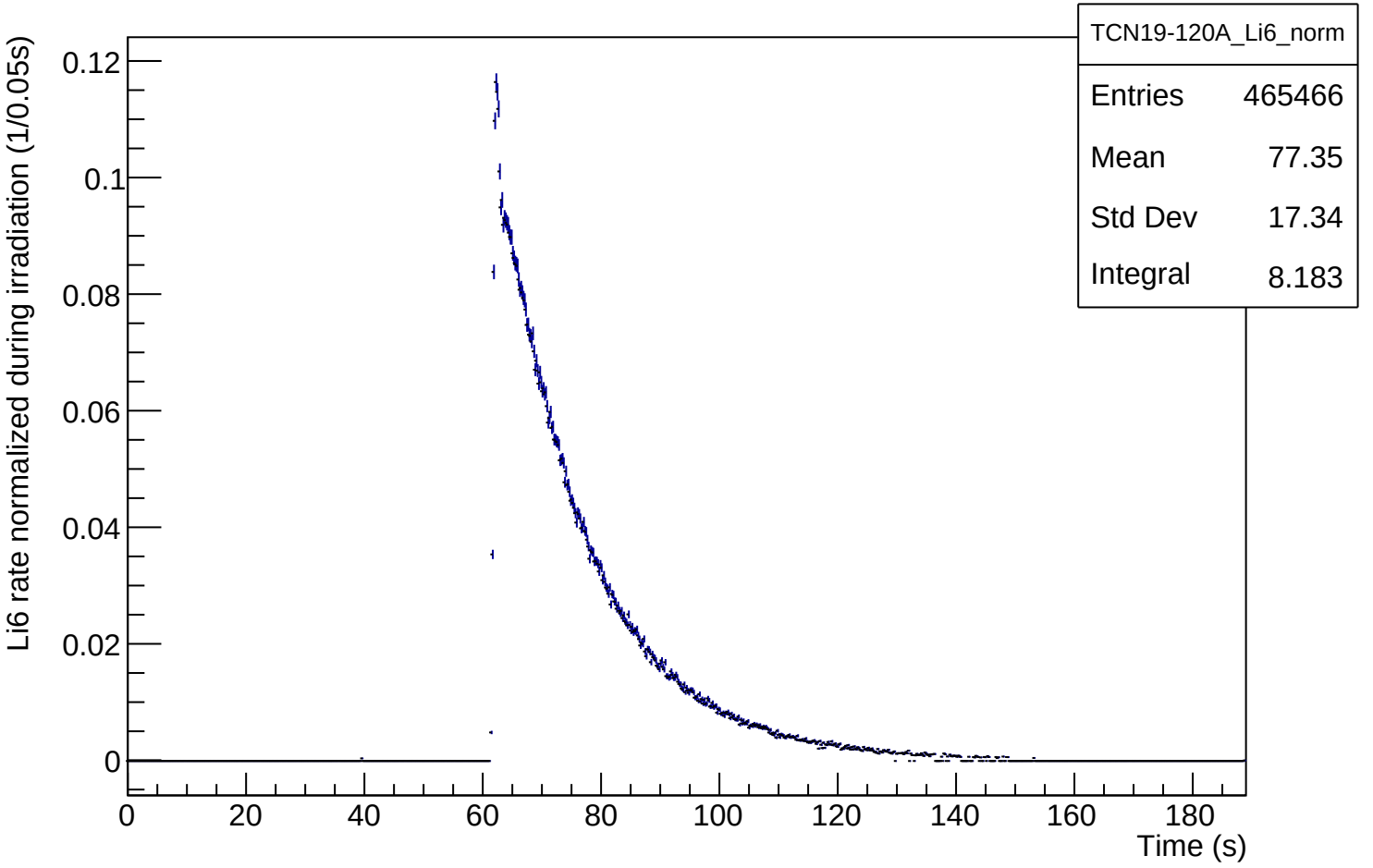

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.2
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
1.05
1.04
1.03
1.02
1.01
1
0.99
0
2
4
6
8
10
12
14
16
18
20

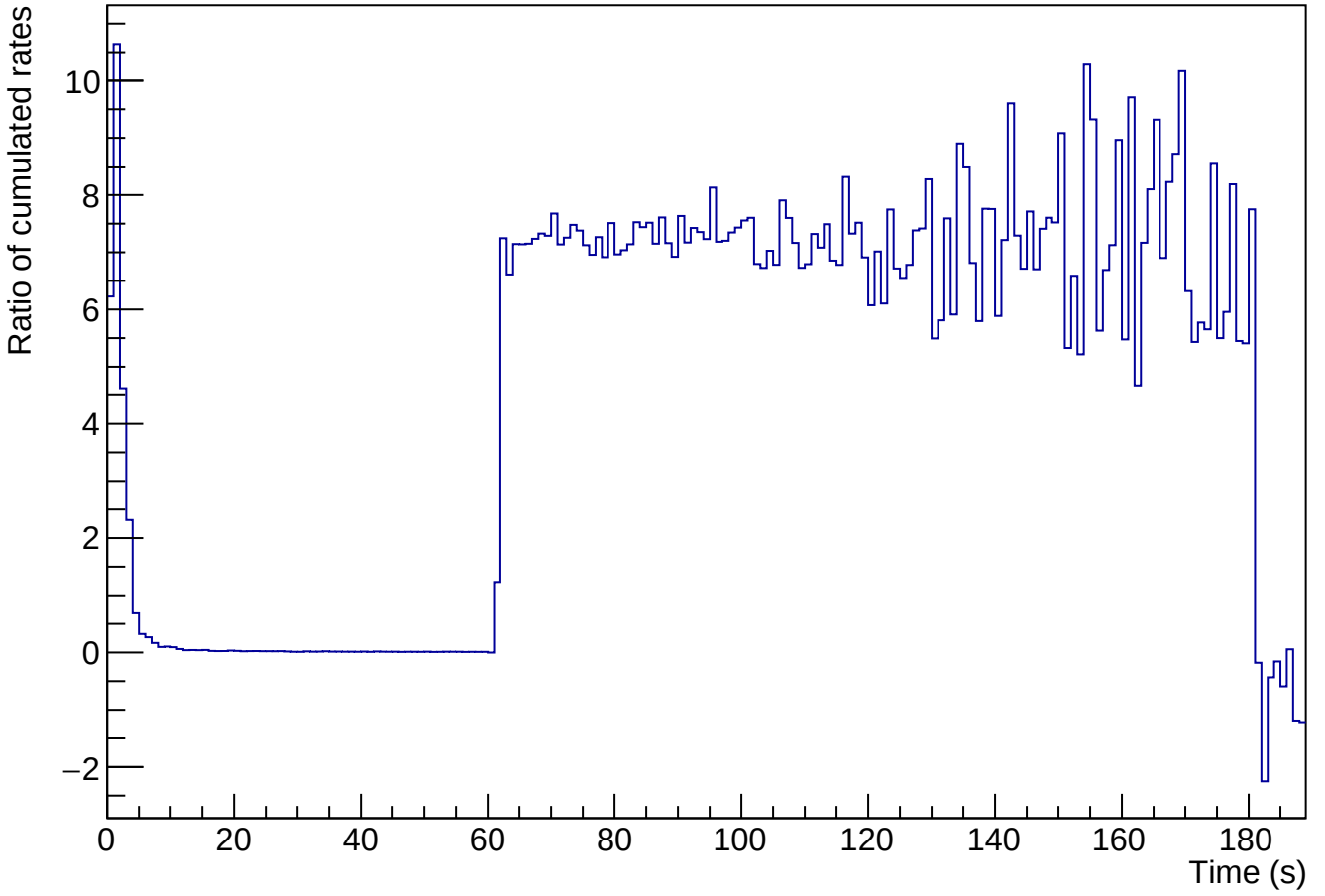

χ² / ndf 14.39 / 18
Prob 0.7035
p0 1.44 ± 0.08707
li6 background rate (1/s)
2.5
2
1.5
1
0.5
0
2
4
6
8
10
12
14
16
18
20
Cycle

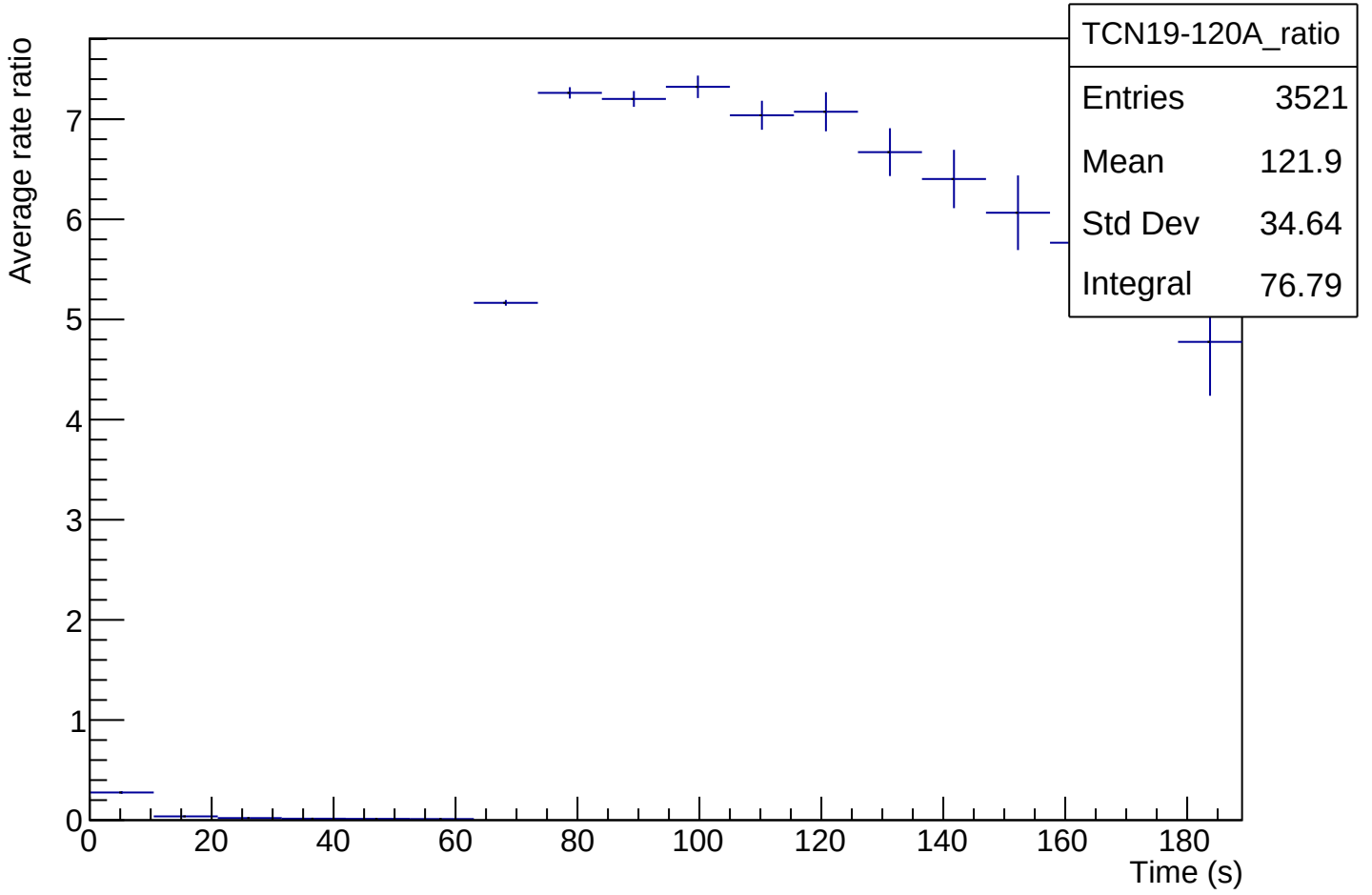

TCN19-120A_He3
Entries 288189
Mean 49.56
Std Dev 21.58
Integral 2.882e+05
χ² / ndf 66.93 / 57
Prob 0.173
p0 3501 ± 38.3
τd 11.67 ± 0.23
τ 30.34 ± 0.94
He3 rate (1/s)
Time (s)
0
1000
2000
3000
4000
5000
6000
0
20
40
60
80
100
120
140
160
180

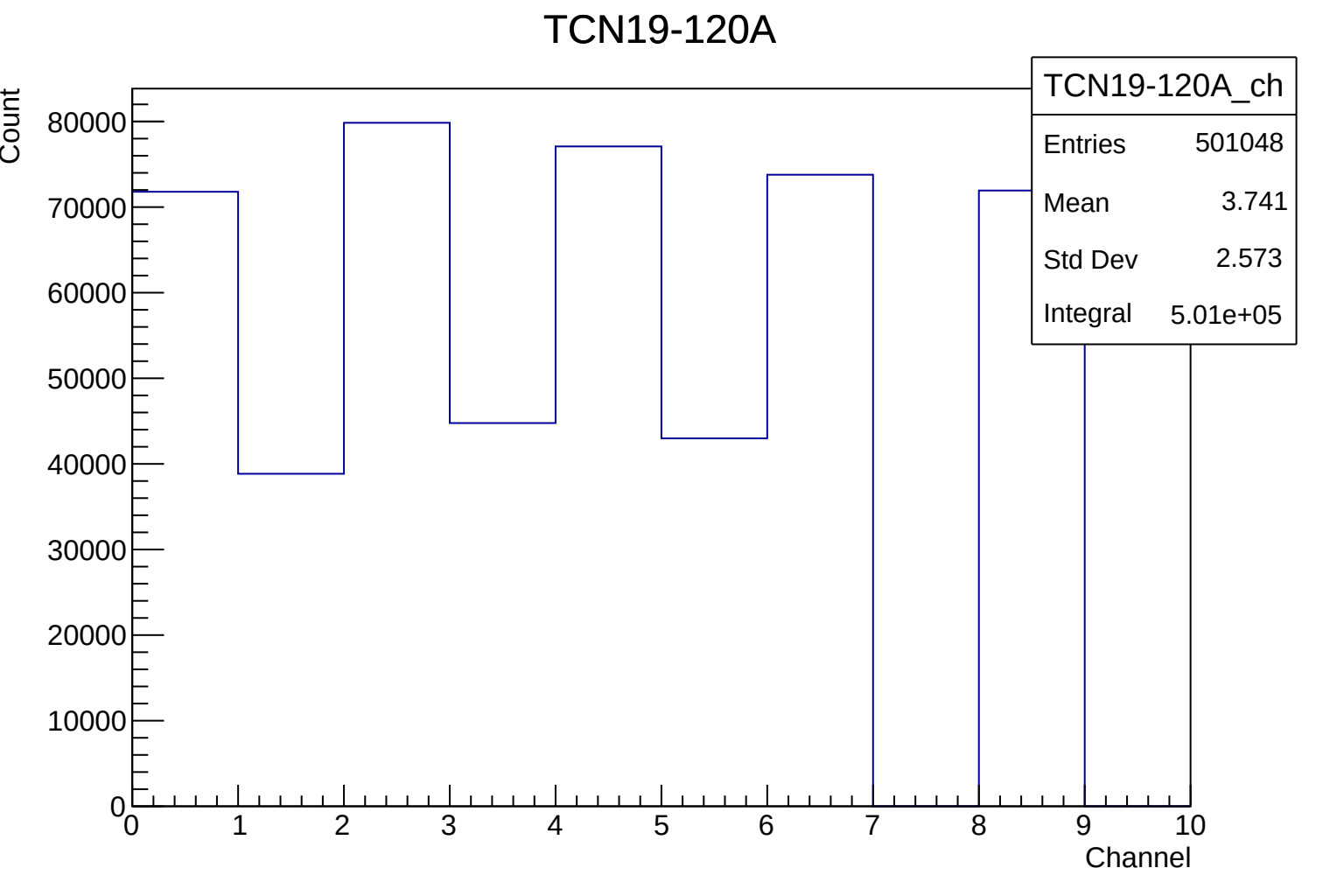

TCN19-120A_Li6
Entries 501048
Mean 77.53
Std Dev 18.24
Integral 5.01e+05
χ^2 / ndf 3796 / 2392
Prob 0
t_d 1.516 ± 0.001
p_0 213.3 ± 18.5
τ_{rise} 0.3047 ± 0.0048
τ_1 9.998 ± 0.099
N_2 6.601 ± 0.626
τ_2 14.7 ± 0.1
N_3 0.2828 ± 0.0339
τ_3 42.48 ± 1.42
Li6 rate (1/0.05s)
Time (s)
0
200
400
600
800
1000
1200
1400
1600
1800
0
20
40
60
80
100
120
140
160
180

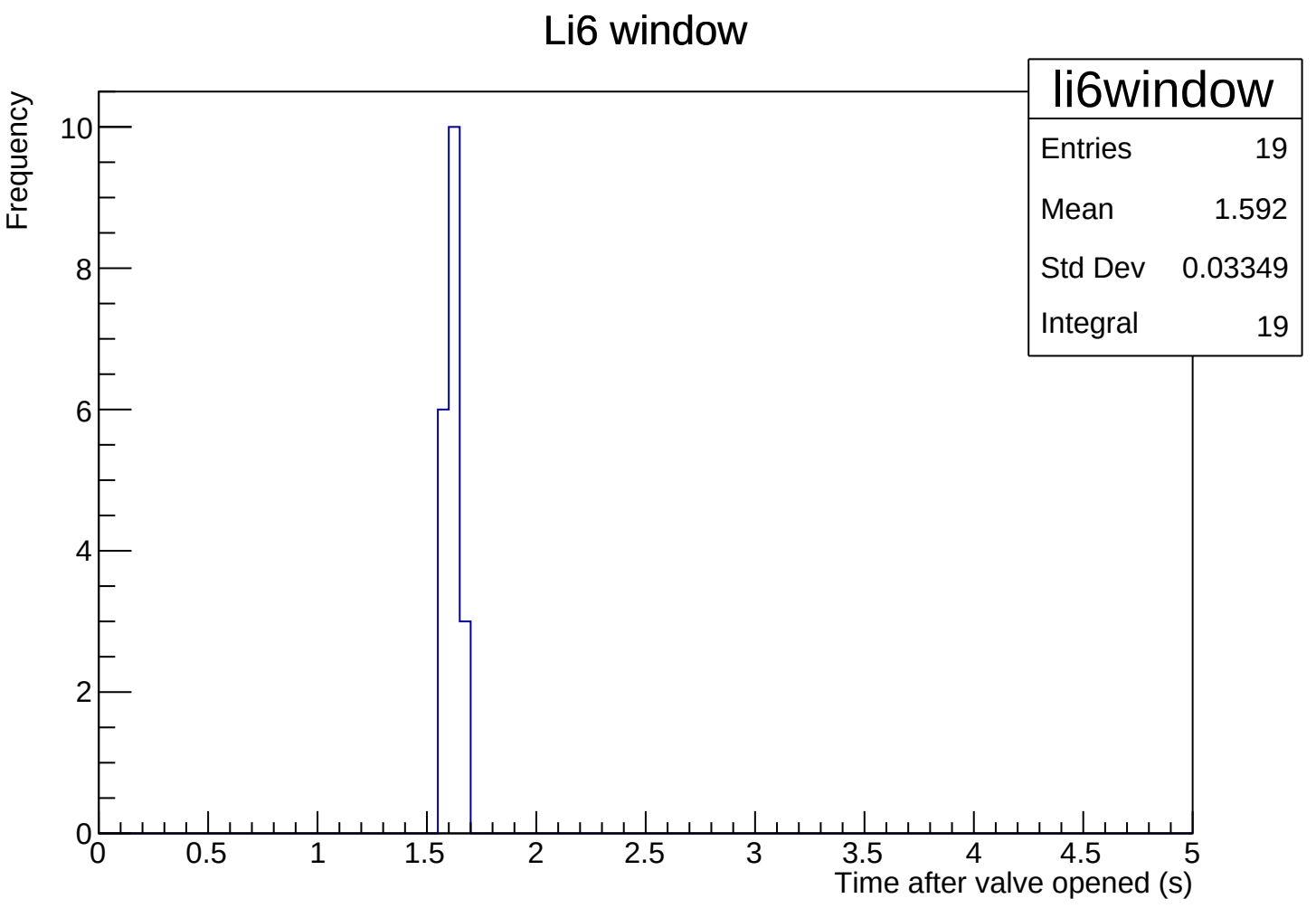

TCN19-120A_Li6_norm
Entries 471812
Mean 77.35
Std Dev 17.34
Integral 6.009
Li6 rate normalized during counting (1/0.05s)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
20
40
60
80
100
120
140
160
180
Time (s)


TCN19-120A_Li6_norm
Entries 465466
Mean 77.35
Std Dev 17.34
Integral 8.183
Li6 rate normalized during irradiation (1/0.05s)
0.12
0.1
0.08
0.06
0.04
0.02
0
0
20
40
60
80
100
120
140
160
180
Time (s)


Ratio of cumulated rates
10
8
6
4
2
0
−2
0
20
40
60
80
100
120
140
160
180
Time (s)


TCN19-120A_ratio
Entries 3521
Mean 121.9
Std Dev 34.64
Integral 76.79
Average rate ratio
Time (s)
0
1
2
3
4
5
6
7
0
20
40
60
80
100
120
140
160
180


TCN19-120A
TCN19-120A_ch
Entries 501048
Mean 3.741
Std Dev 2.573
Integral 5.01e+05
Count
80000
70000
60000
50000
40000
30000
20000
10000
0
0 1 2 3 4 5 6 7 8 9 10
Channel


Li6 window
li6window
Entries 19
Mean 1.592
Std Dev 0.03349
Integral 19
Frequency
0
2
4
6
8
10
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Time after valve opened (s)