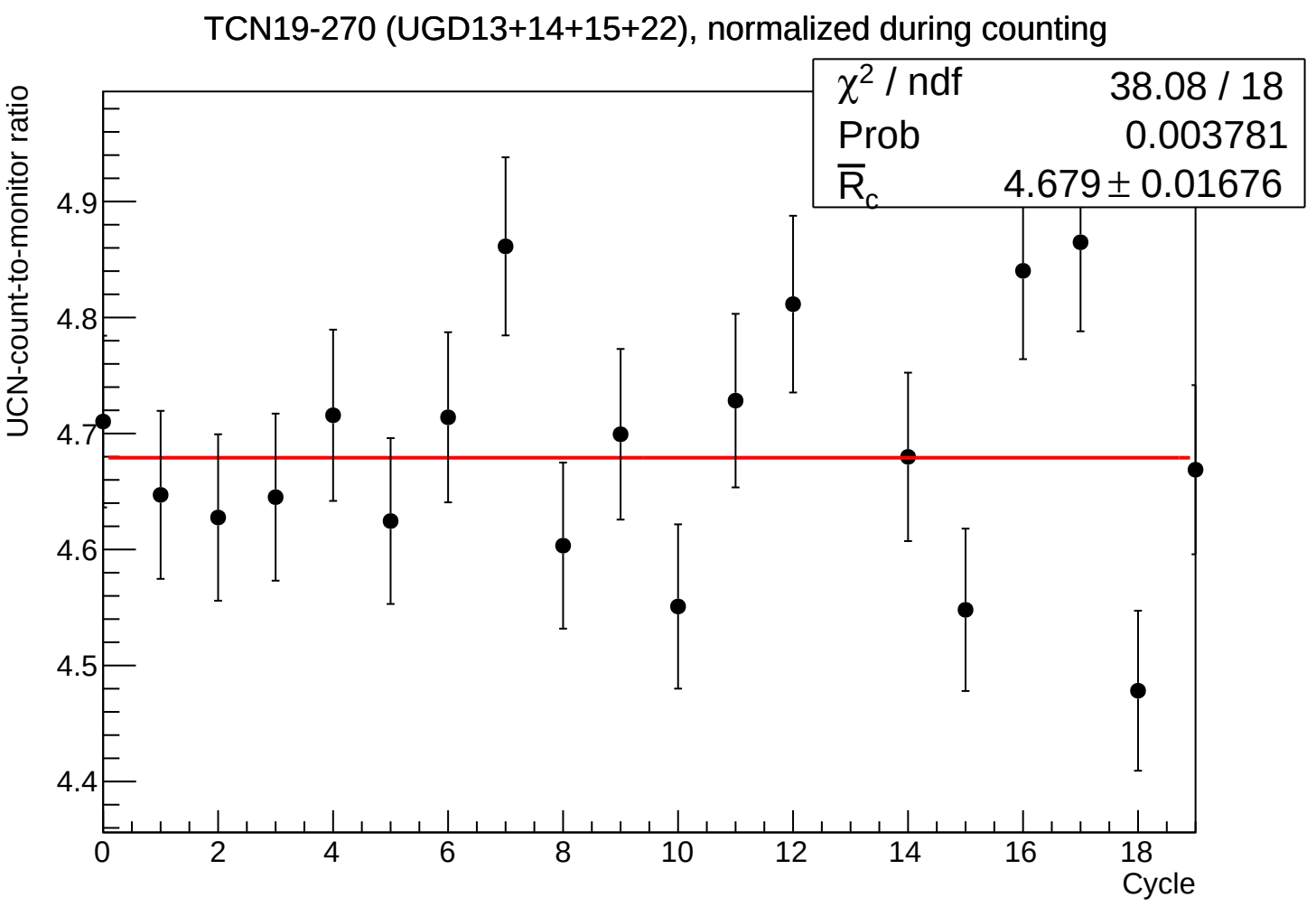
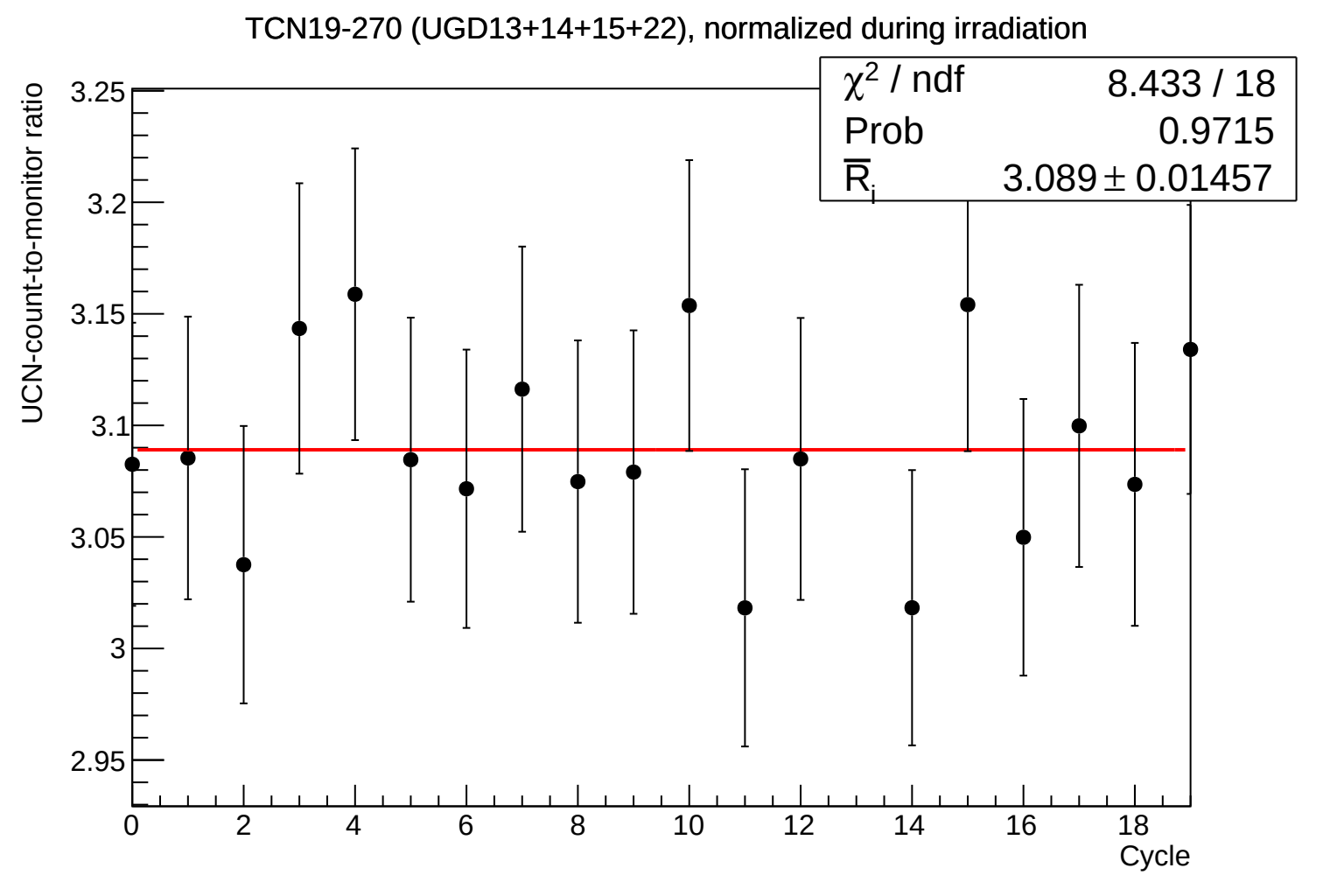
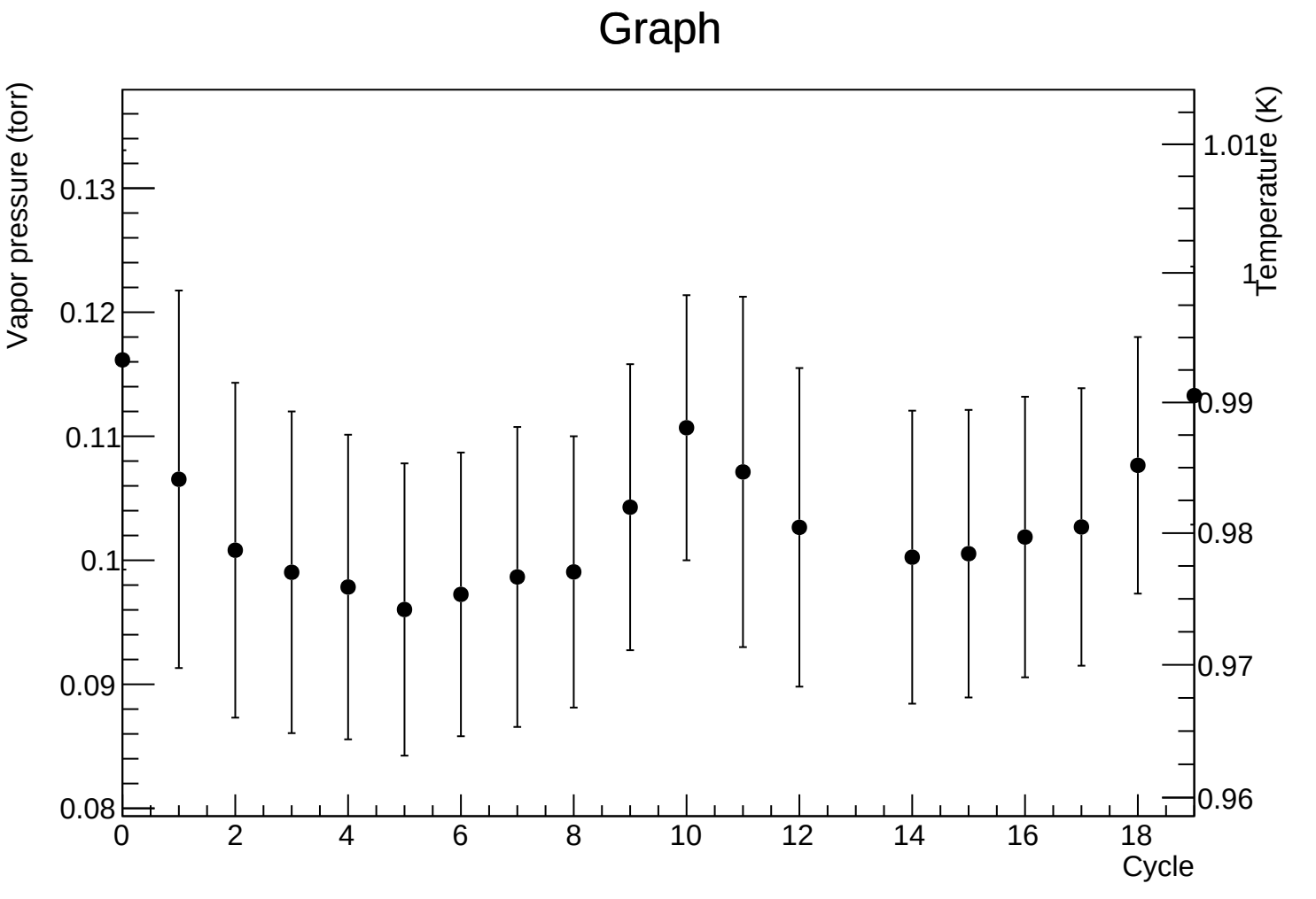
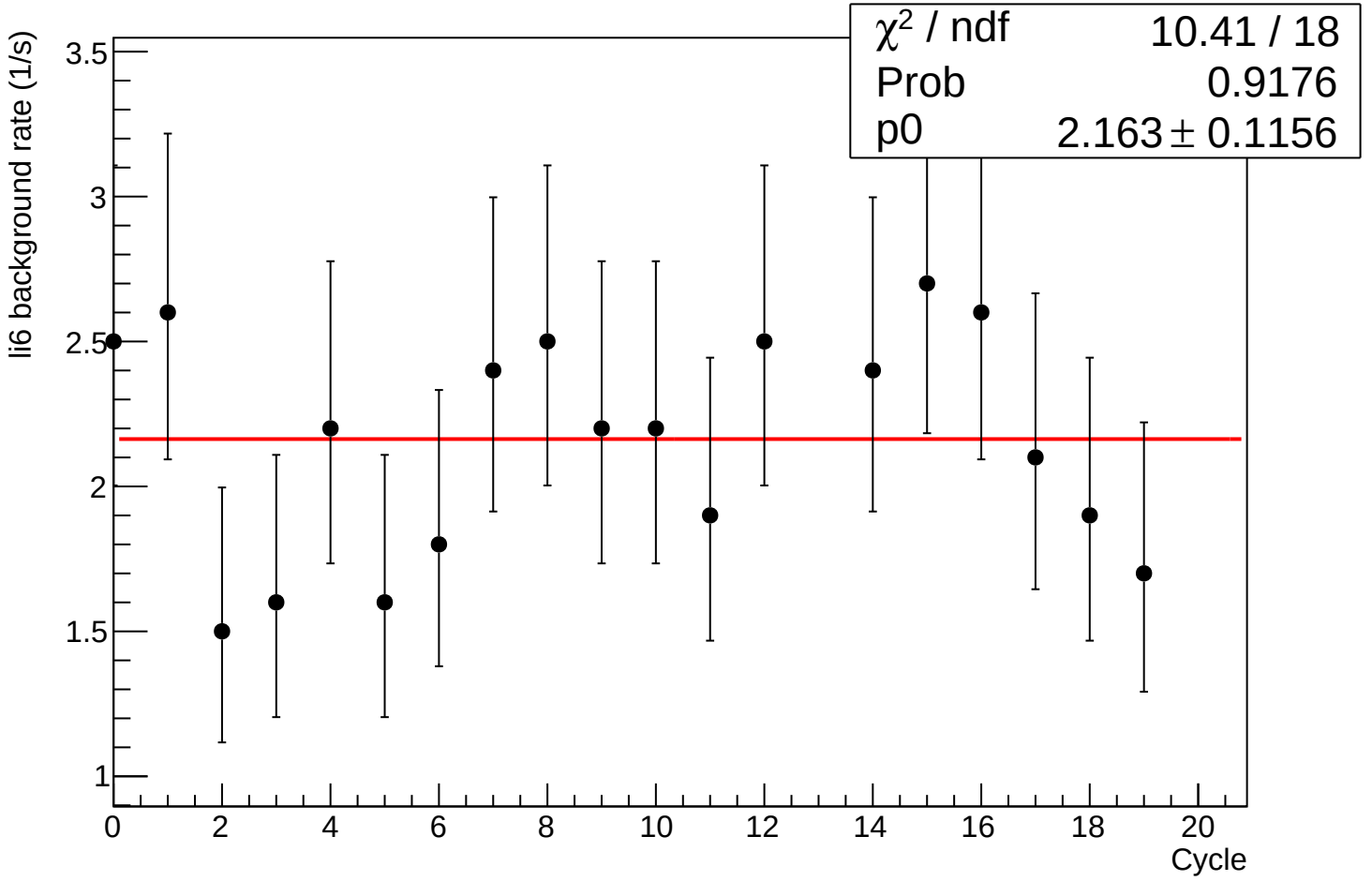
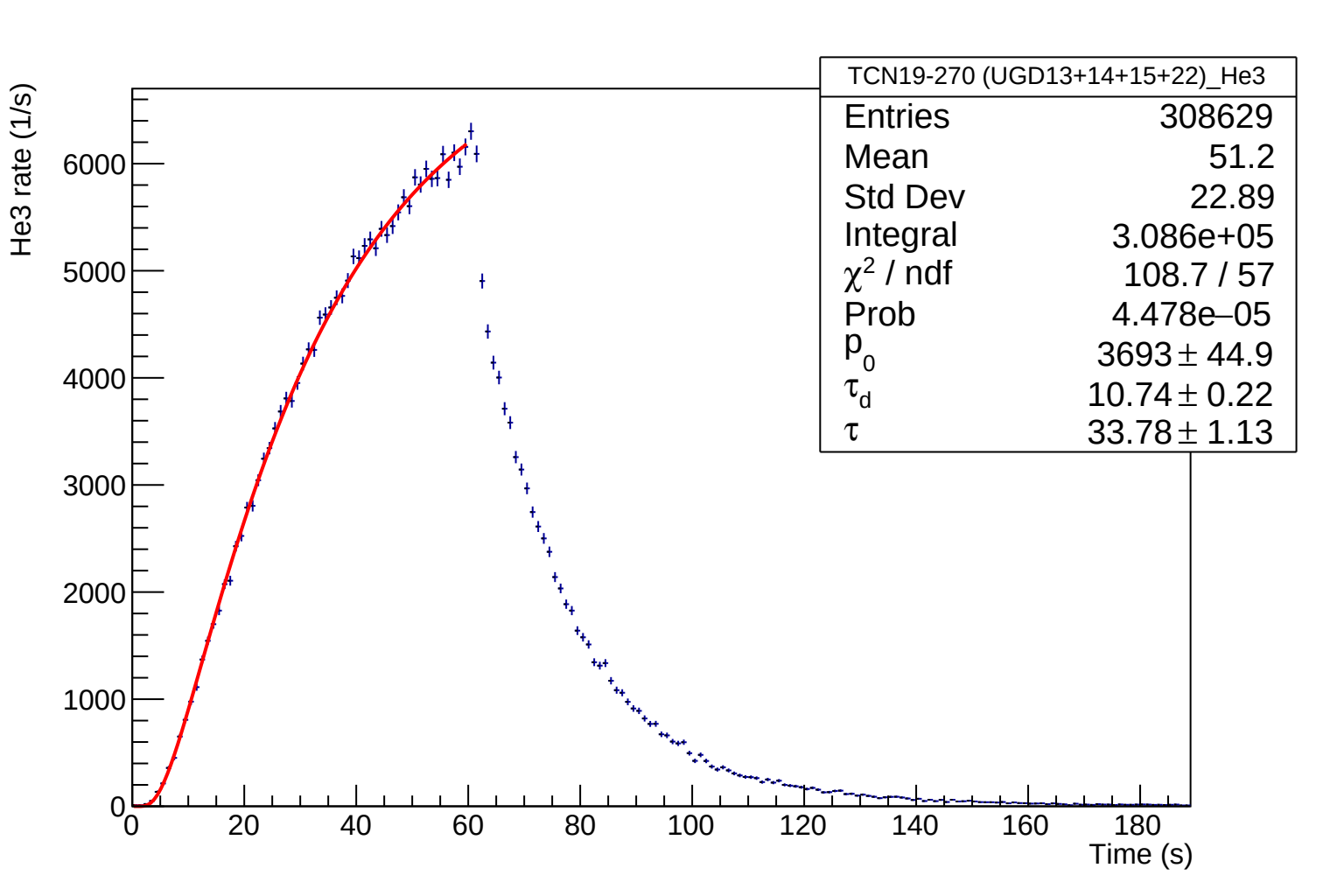
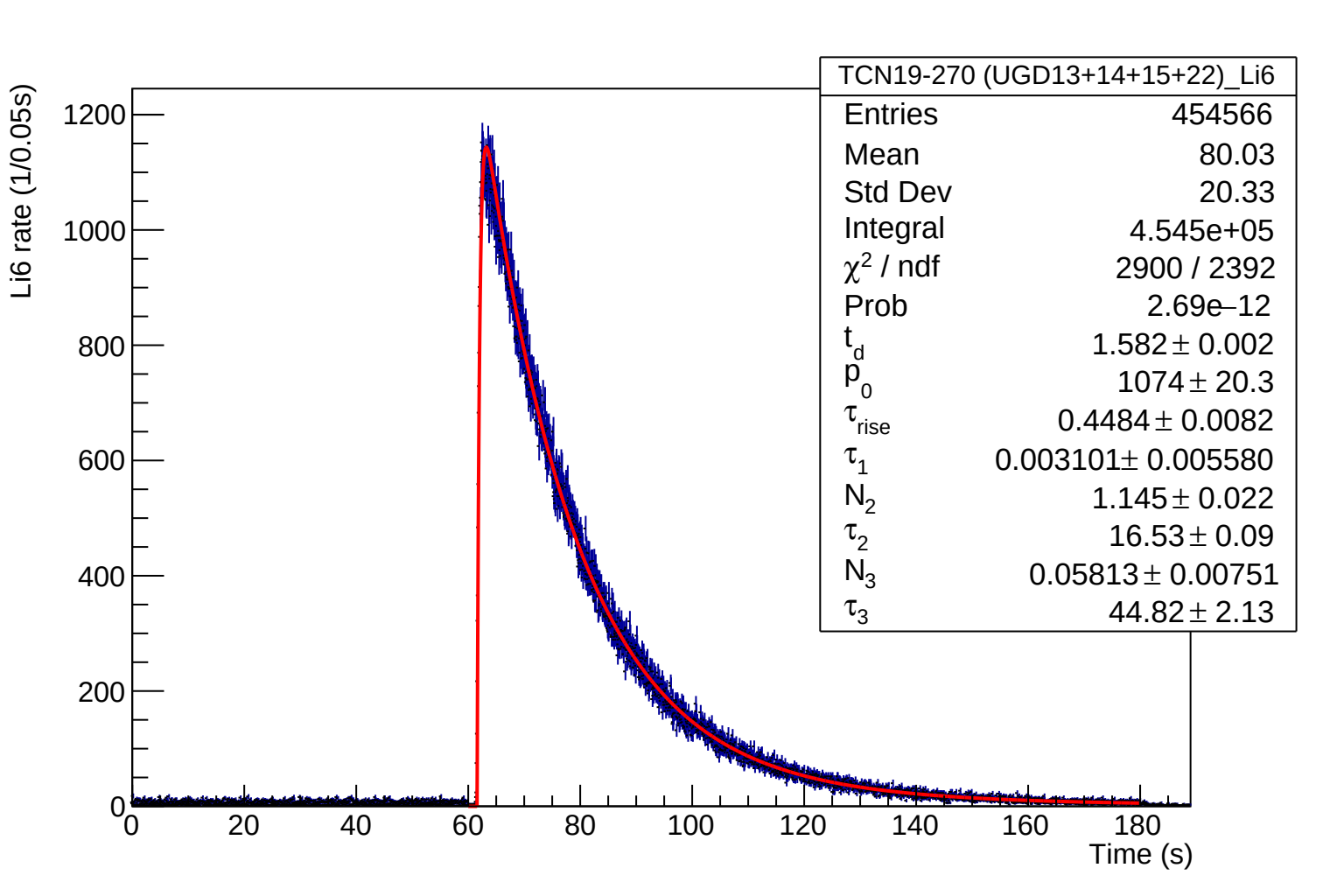

TCN19-270 (UGD13+14+15+22), normalized during counting
χ^2 / ndf 38.08 / 18
Prob 0.003781
$\overline{R}_c$ 4.679 ± 0.01676
UCN-count-to-monitor ratio
4.9
4.8
4.7
4.6
4.5
4.4
0
2
4
6
8
10
12
14
16
18
Cycle

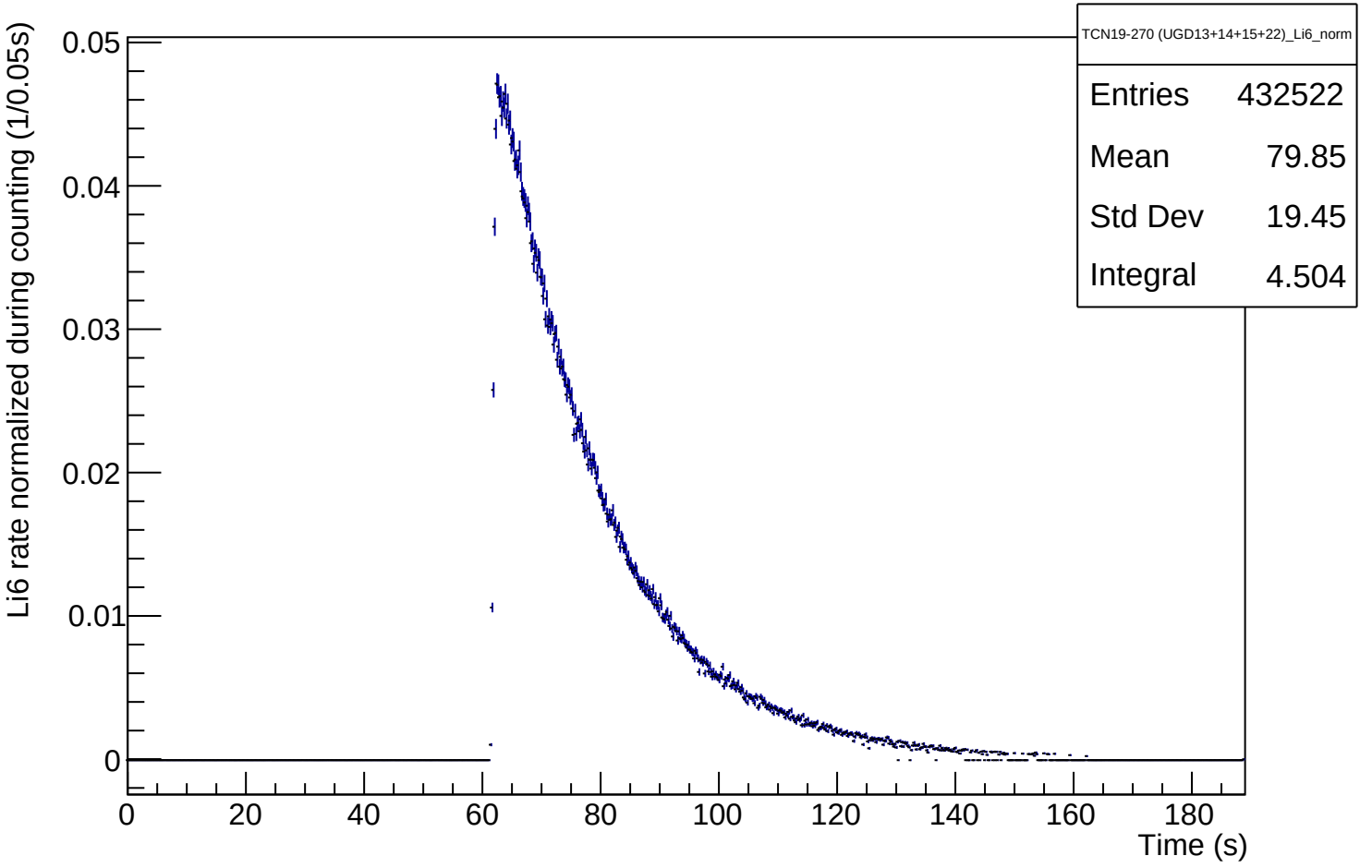

TCN19-270 (UGD13+14+15+22), normalized during irradiation
χ^2 / ndf 8.433 / 18
Prob 0.9715
$\overline{R}_i$ 3.089 ± 0.01457
UCN-count-to-monitor ratio
3.25
3.2
3.15
3.1
3.05
3
2.95
0
2
4
6
8
10
12
14
16
18
Cycle

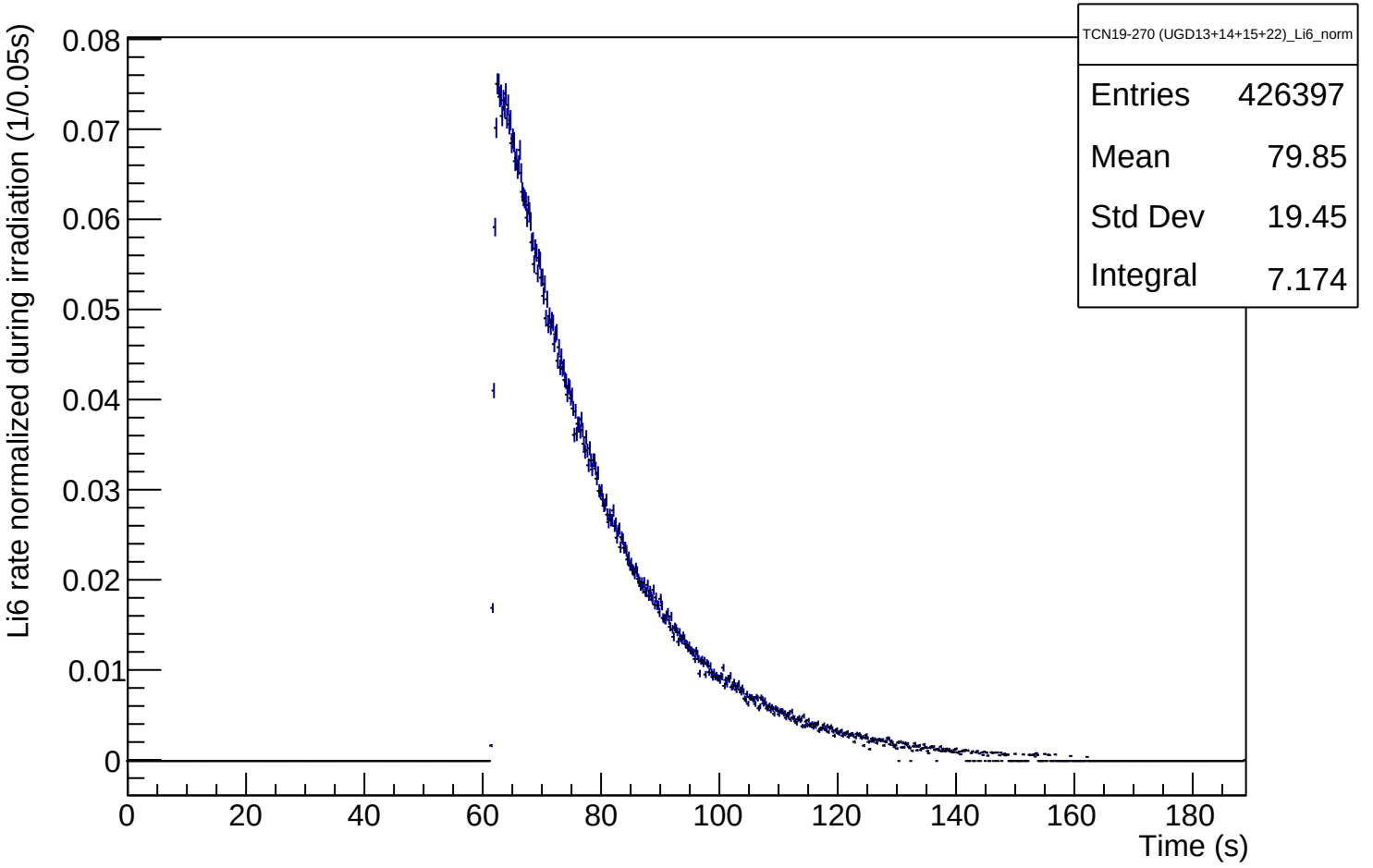

Graph
Vapor pressure (torr)
Temperature (K)
0.13
0.12
0.11
0.1
0.09
0.08
1.01
1
0.99
0.98
0.97
0.96
0
2
4
6
8
10
12
14
16
18
Cycle

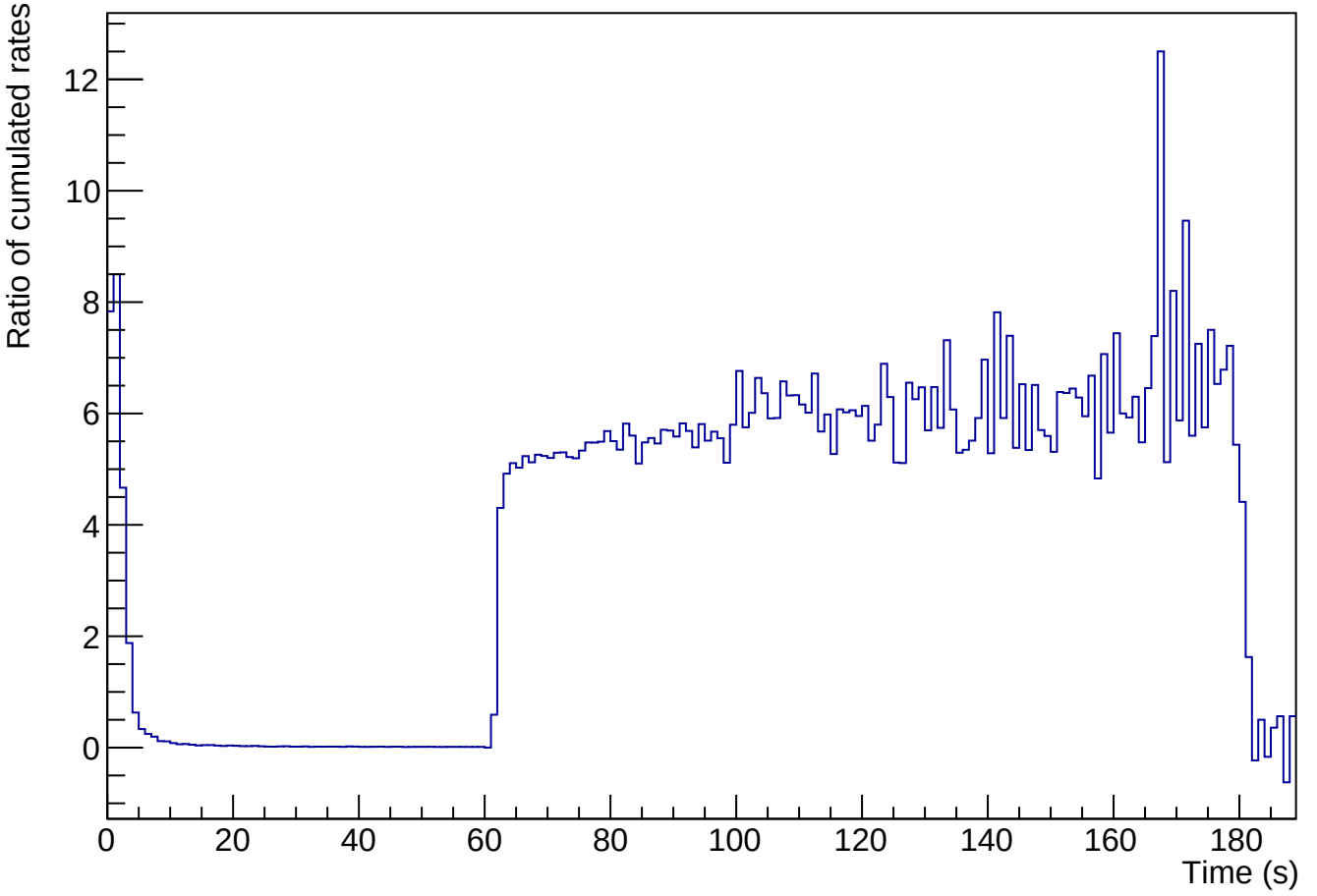

li6 background rate (1/s)
3.5
3
2.5
2
1.5
1
0
2
4
6
8
10
12
14
16
18
20
Cycle
χ² / ndf 10.41 / 18
Prob 0.9176
p0 2.163 ± 0.1156

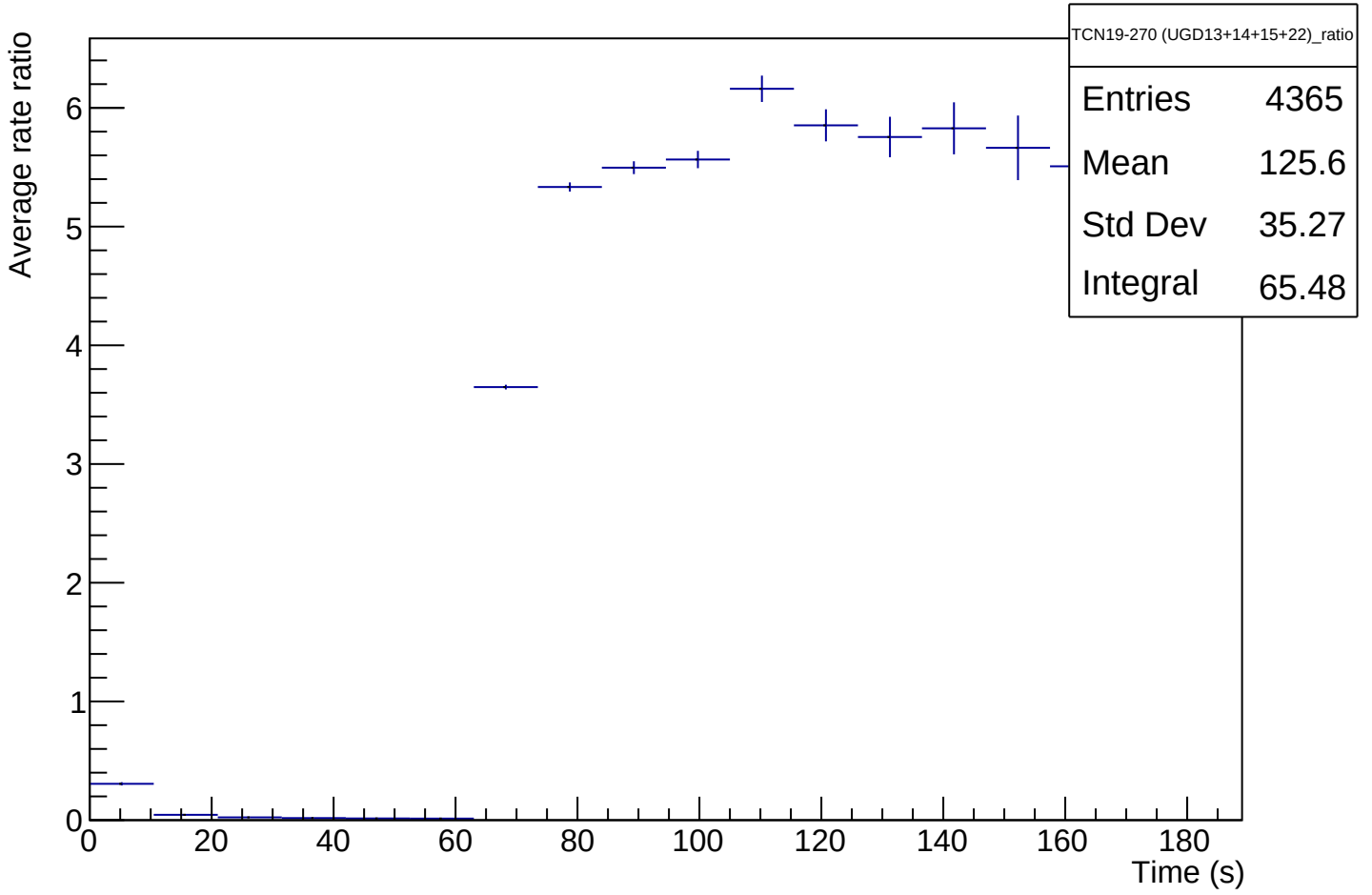

TCN19-270 (UGD13+14+15+22)_He3
Entries 308629
Mean 51.2
Std Dev 22.89
Integral 3.086e+05
χ² / ndf 108.7 / 57
Prob 4.478e–05
p0 3693 ± 44.9
τd 10.74 ± 0.22
τ 33.78 ± 1.13
He3 rate (1/s)
Time (s)
0
1000
2000
3000
4000
5000
6000
0
20
40
60
80
100
120
140
160
180

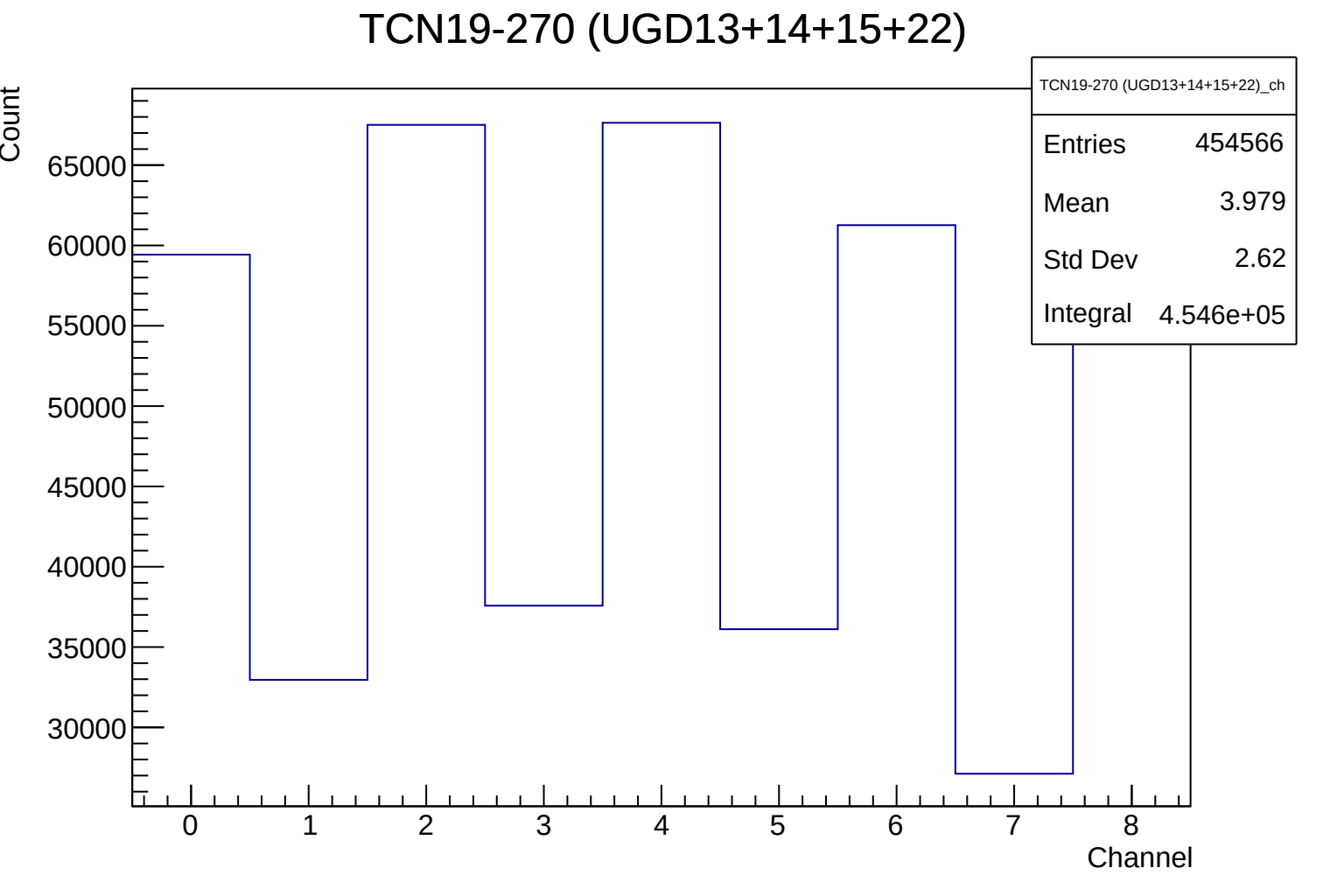

TCN19-270 (UGD13+14+15+22)_Li6
Entries 454566
Mean 80.03
Std Dev 20.33
Integral 4.545e+05
χ² / ndf 2900 / 2392
Prob 2.69e−12
t_d 1.582 ± 0.002
p_0 1074 ± 20.3
τ_rise 0.4484 ± 0.0082
τ_1 0.003101 ± 0.005580
N_2 1.145 ± 0.022
τ_2 16.53 ± 0.09
N_3 0.05813 ± 0.00751
τ_3 44.82 ± 2.13
Li6 rate (1/0.05s)
Time (s)
0
200
400
600
800
1000
1200
0
20
40
60
80
100
120
140
160
180

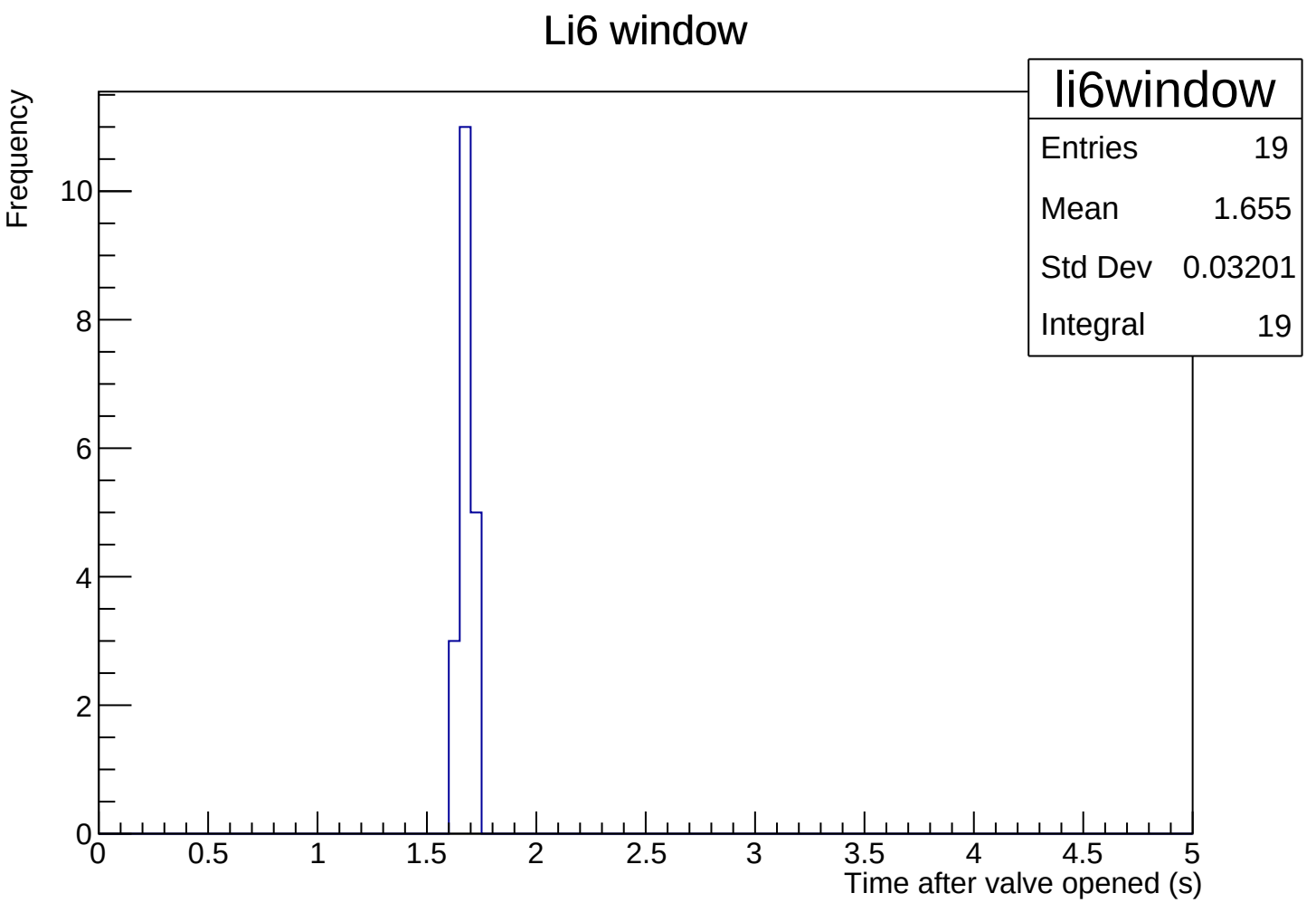

TCN19-270 (UGD13+14+15+22)_Li6_norm
Entries 432522
Mean 79.85
Std Dev 19.45
Integral 4.504
Li6 rate normalized during counting (1/0.05s)
0.05
0.04
0.03
0.02
0.01
0
0
20
40
60
80
100
120
140
160
180
Time (s)


TCN19-270 (UGD13+14+15+22)_Li6_norm
Entries 426397
Mean 79.85
Std Dev 19.45
Integral 7.174
Li6 rate normalized during irradiation (1/0.05s)
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)


Ratio of cumulated rates
12
10
8
6
4
2
0
0
20
40
60
80
100
120
140
160
180
Time (s)


TCN19-270 (UGD13+14+15+22)_ratio
Entries 4365
Mean 125.6
Std Dev 35.27
Integral 65.48
Average rate ratio
Time (s)
0
1
2
3
4
5
6
0
20
40
60
80
100
120
140
160
180


TCN19-270 (UGD13+14+15+22)
TCN19-270 (UGD13+14+15+22)_ch
Entries 454566
Mean 3.979
Std Dev 2.62
Integral 4.546e+05
Count
65000
60000
55000
50000
45000
40000
35000
30000
0
1
2
3
4
5
6
7
8
Channel


Li6 window
li6window
Entries 19
Mean 1.655
Std Dev 0.03201
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)