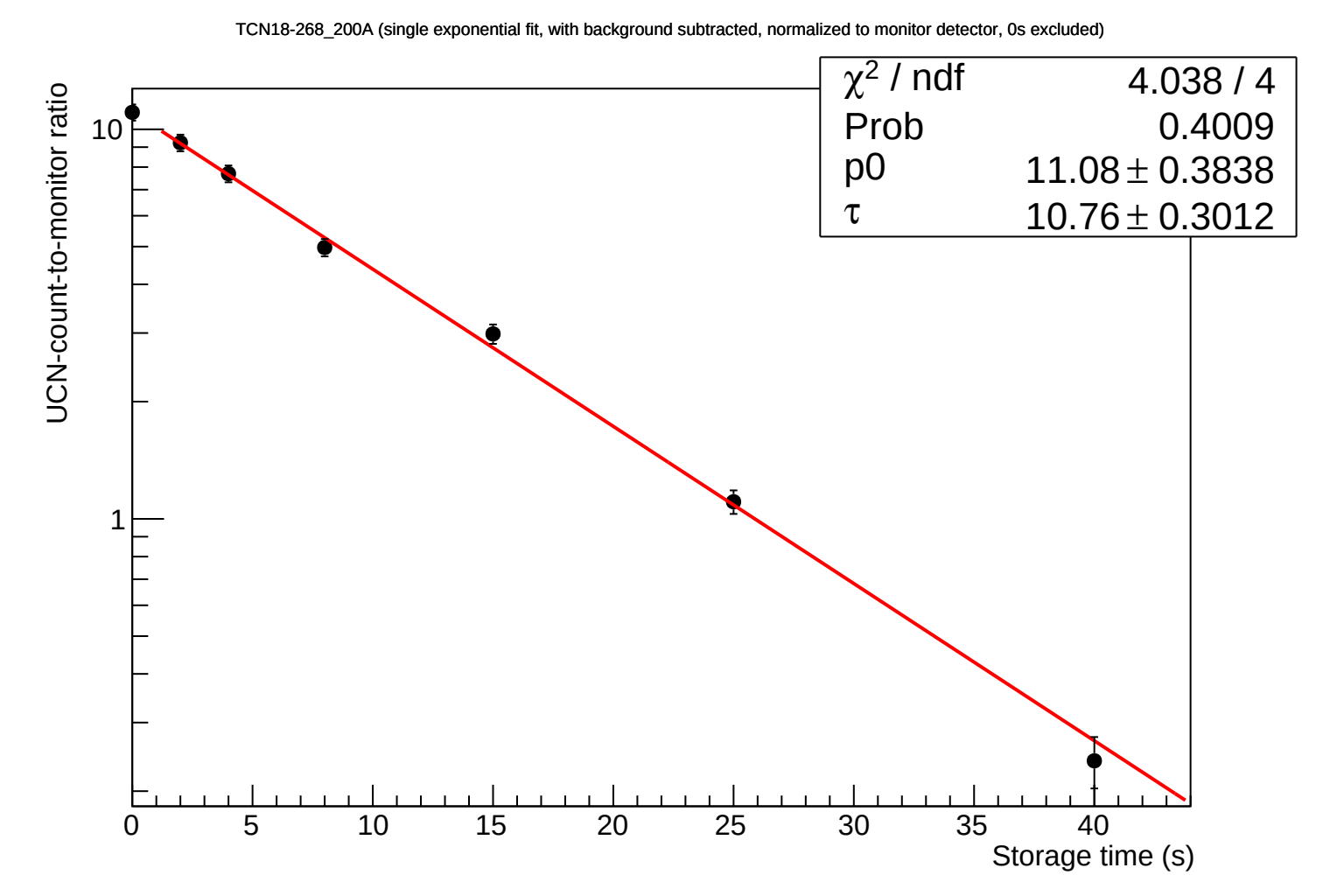
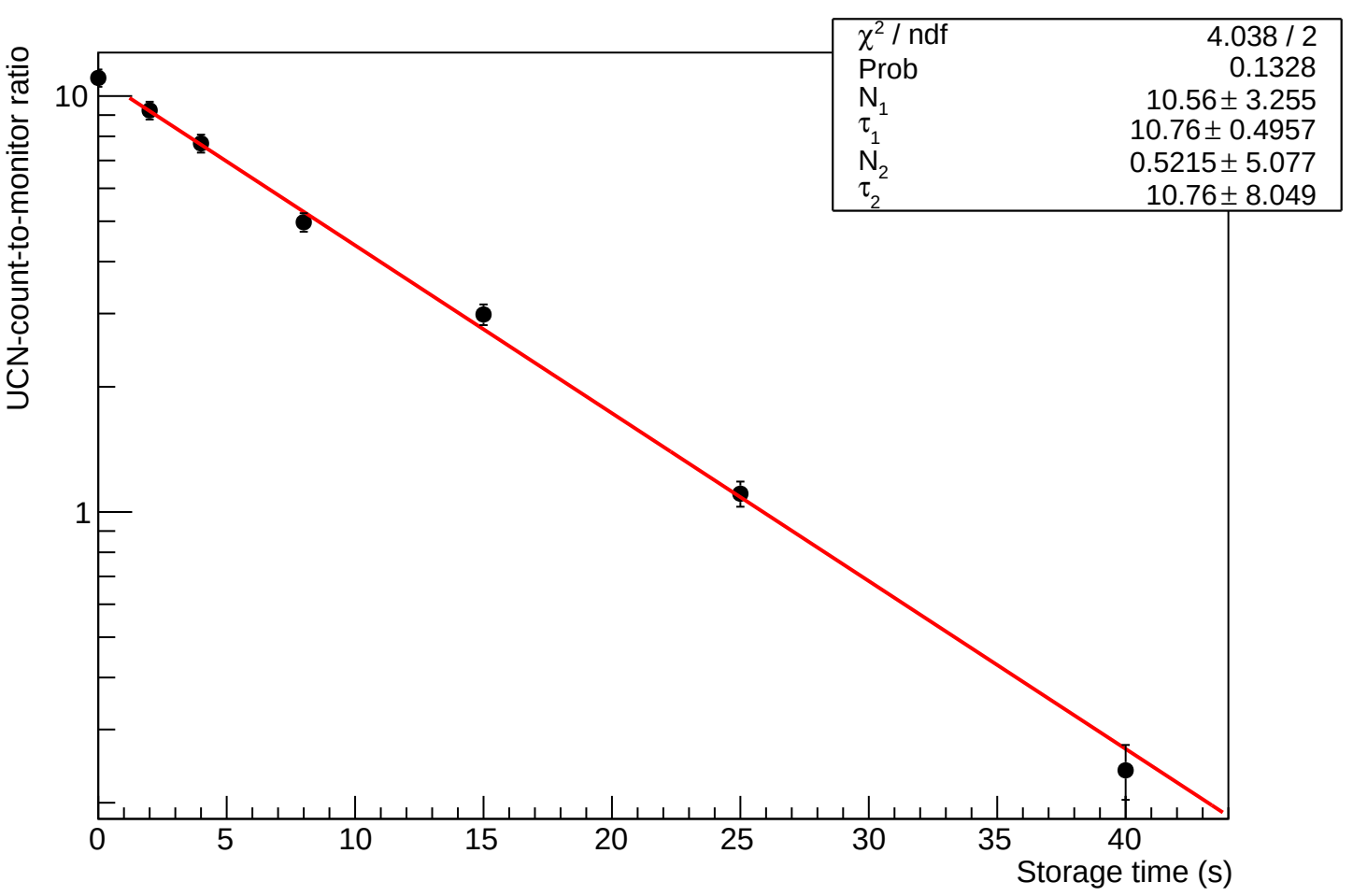
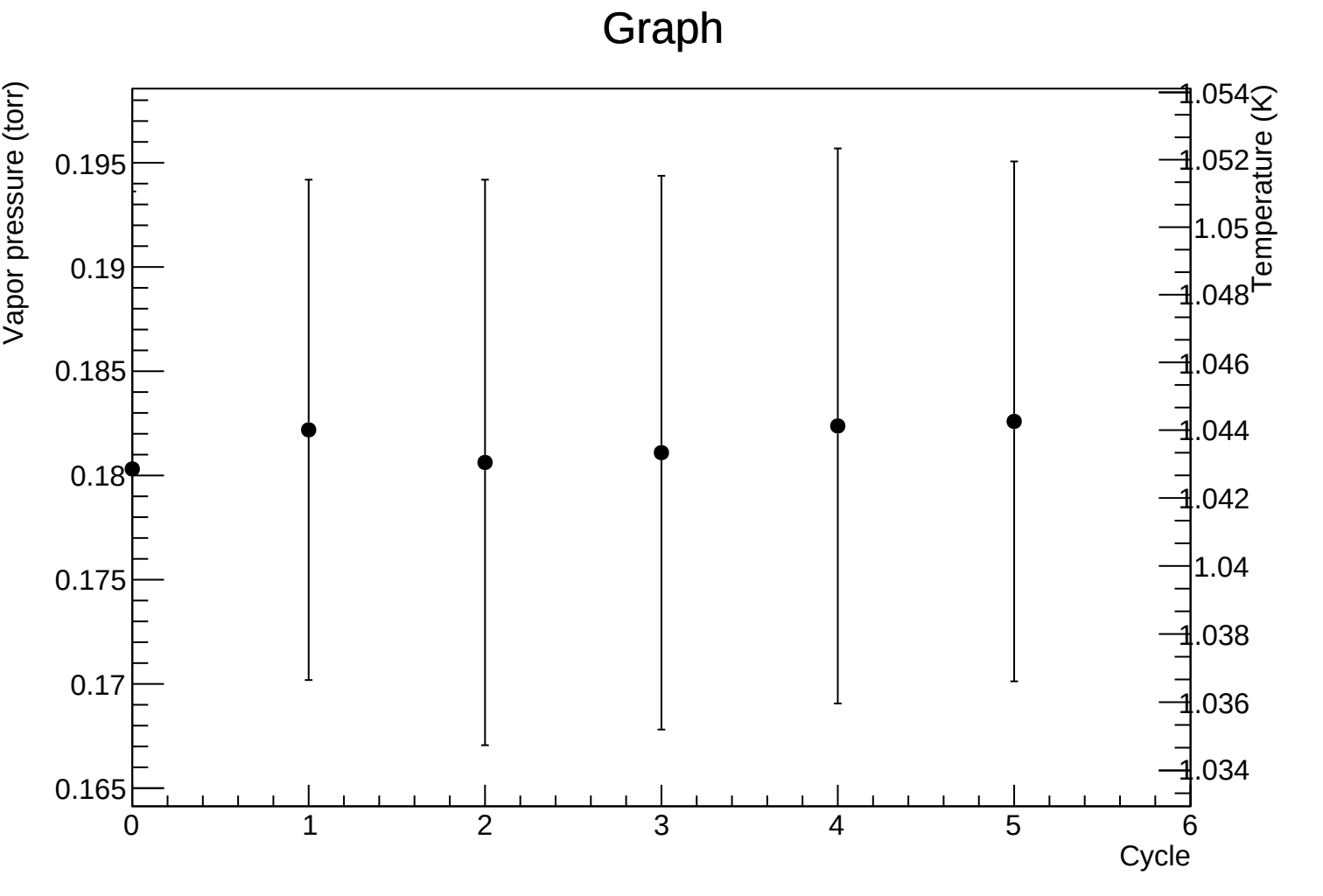
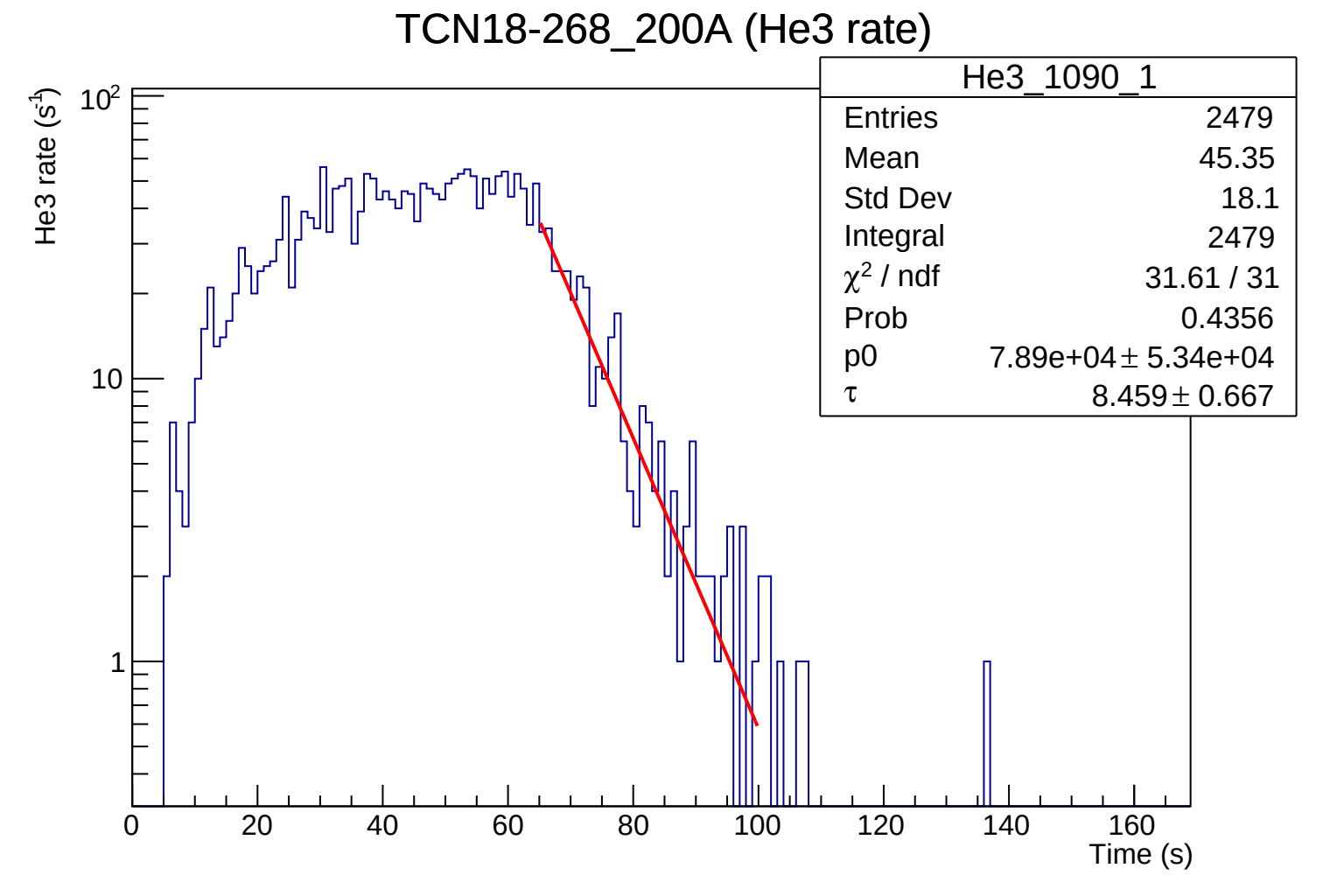
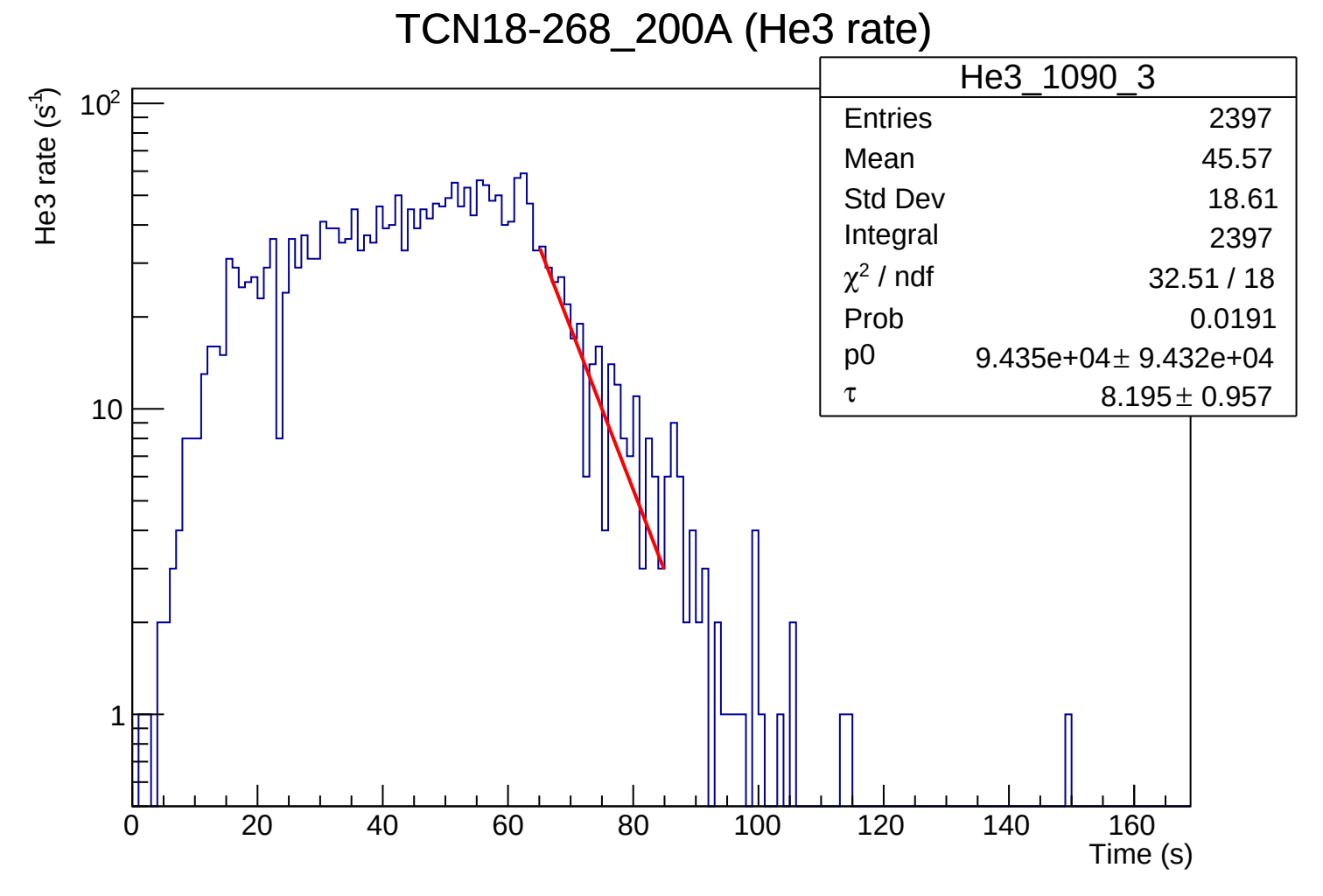
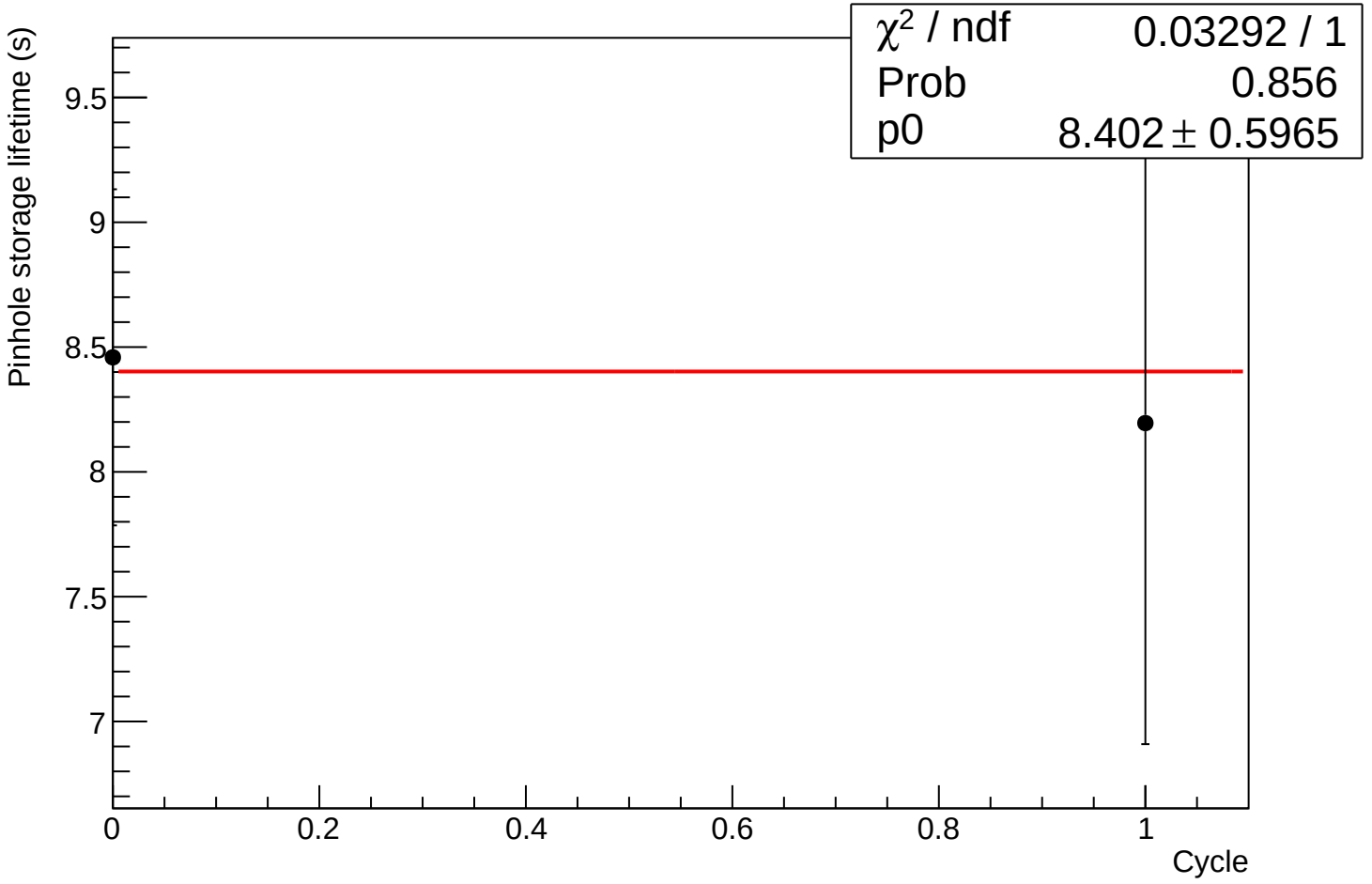

TCN18-268_200A (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ2 / ndf 4.038 / 4
Prob 0.4009
p0 11.08 ± 0.3838
τ 10.76 ± 0.3012
UCN-count-to-monitor ratio
10
1
0
5
10
15
20
25
30
35
40
Storage time (s)

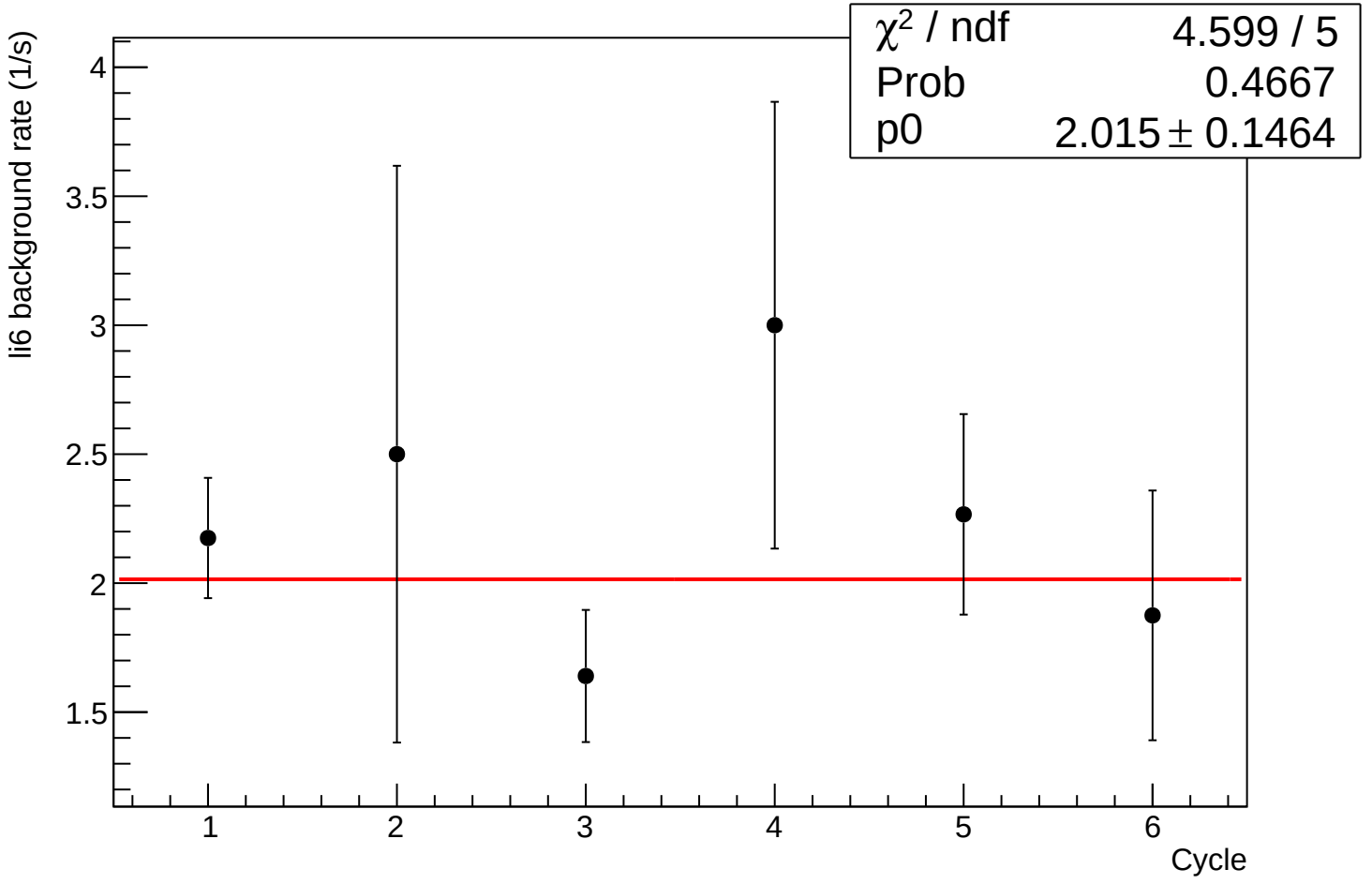

TCN18-268_200A (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 4.038 / 2
Prob 0.1328
N1 10.56 ± 3.255
τ1 10.76 ± 0.4957
N2 0.5215 ± 5.077
τ2 10.76 ± 8.049
UCN-count-to-monitor ratio
10
1
0
5
10
15
20
25
30
35
40
Storage time (s)

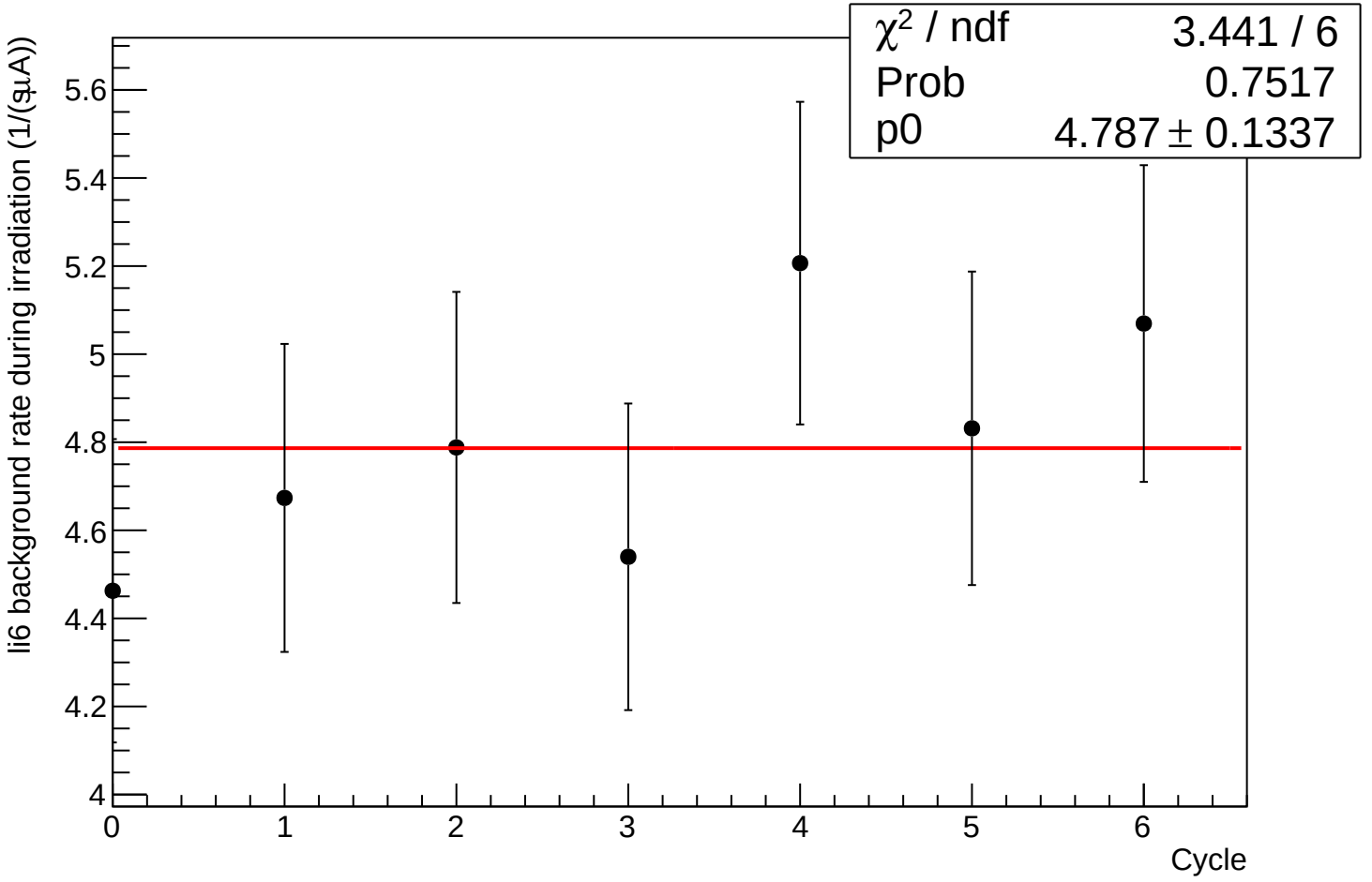

Graph
Vapor pressure (torr)
0.195
0.19
0.185
0.18
0.175
0.17
0.165
Temperature (K)
1.054
1.052
1.05
1.048
1.046
1.044
1.042
1.04
1.038
1.036
1.034
0
1
2
3
4
5
6
Cycle

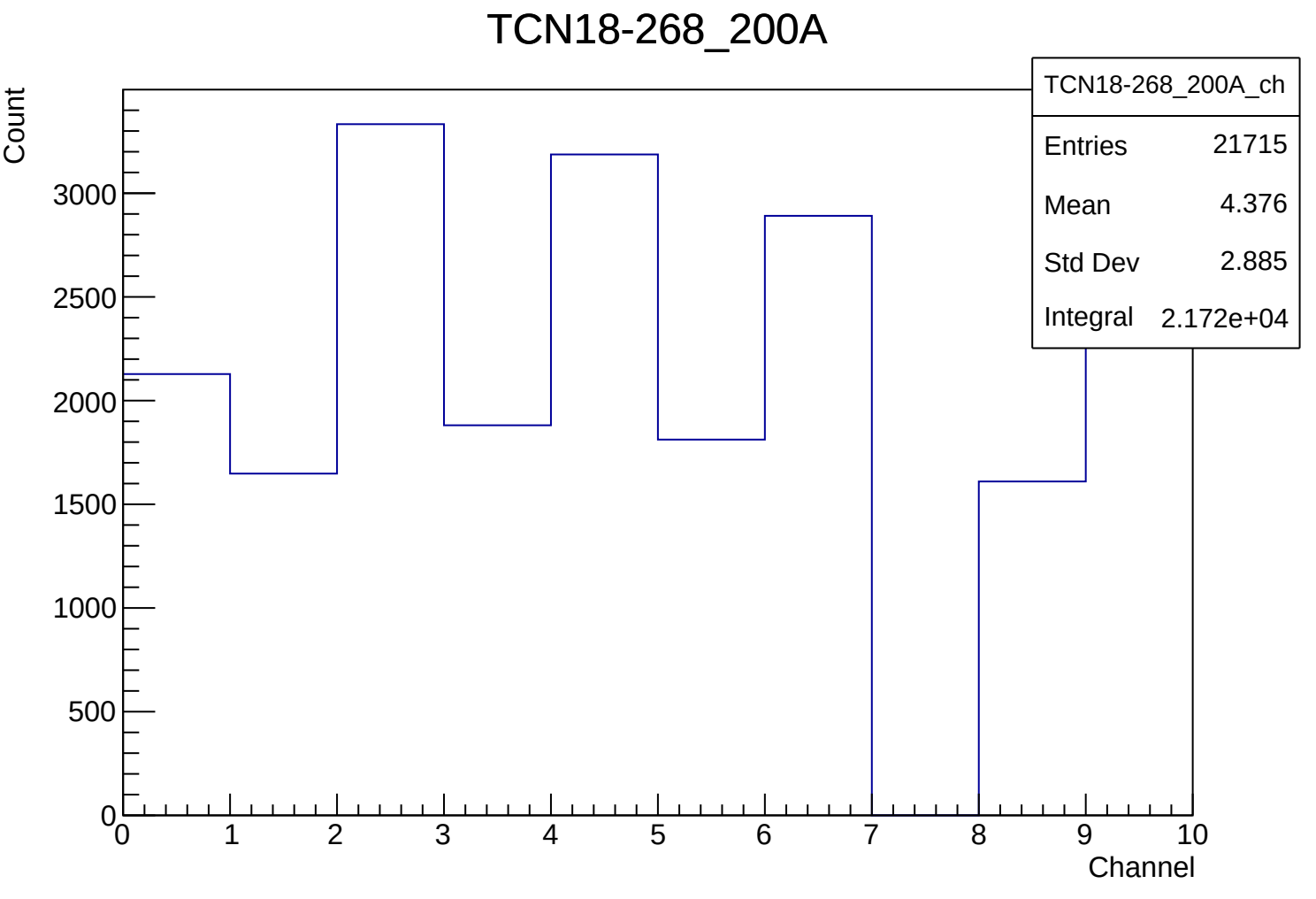

TCN18-268_200A (He3 rate)
He3_1090_1
Entries 2479
Mean 45.35
Std Dev 18.1
Integral 2479
χ² / ndf 31.61 / 31
Prob 0.4356
p0 7.89e+04 ± 5.34e+04
τ 8.459 ± 0.667
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
160
Time (s)


TCN18-268_200A (He3 rate)
He3_1090_3
Entries 2397
Mean 45.57
Std Dev 18.61
Integral 2397
χ² / ndf 32.51 / 18
Prob 0.0191
p0 9.435e+04 ± 9.432e+04
τ 8.195 ± 0.957
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
160
Time (s)


Pinhole storage lifetime (s)
9.5
9
8.5
8
7.5
7
0
0.2
0.4
0.6
0.8
1
Cycle
χ² / ndf 0.03292 / 1
Prob 0.856
p0 8.402 ± 0.5965


χ^2 / ndf 4.599 / 5
Prob 0.4667
p0 2.015 ± 0.1464
li6 background rate (1/s)
4
3.5
3
2.5
2
1.5
1
2
3
4
5
6
Cycle


χ^2 / ndf 3.441 / 6
Prob 0.7517
p0 4.787 ± 0.1337
li6 background rate during irradiation (1/(μA))
5.6
5.4
5.2
5
4.8
4.6
4.4
4.2
4
0
1
2
3
4
5
6
Cycle


TCN18-268_200A
TCN18-268_200A_ch
Entries 21715
Mean 4.376
Std Dev 2.885
Integral 2.172e+04
Count
3000
2500
2000
1500
1000
500
0
0
1
2
3
4
5
6
7
8
9
10
Channel