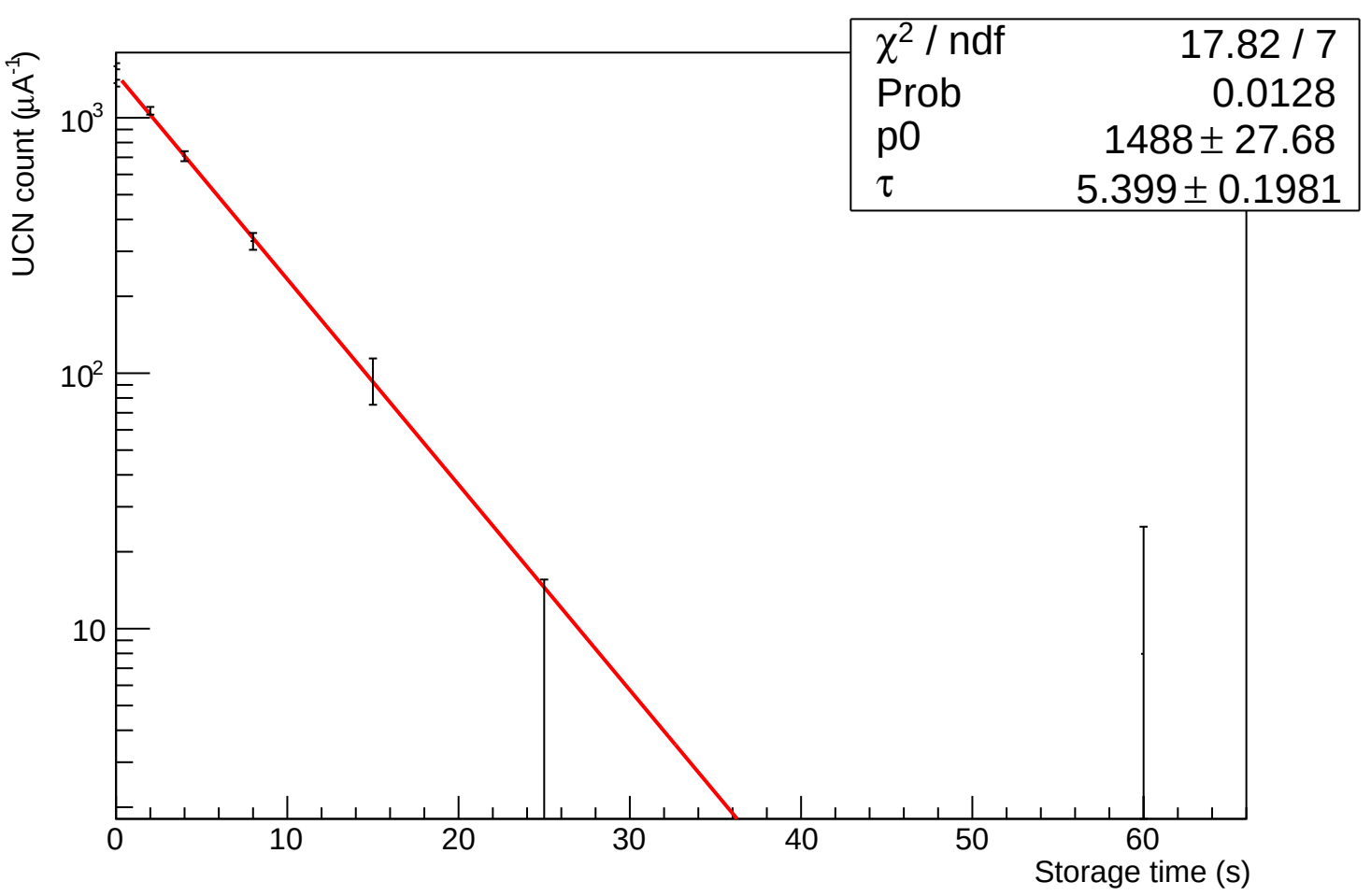
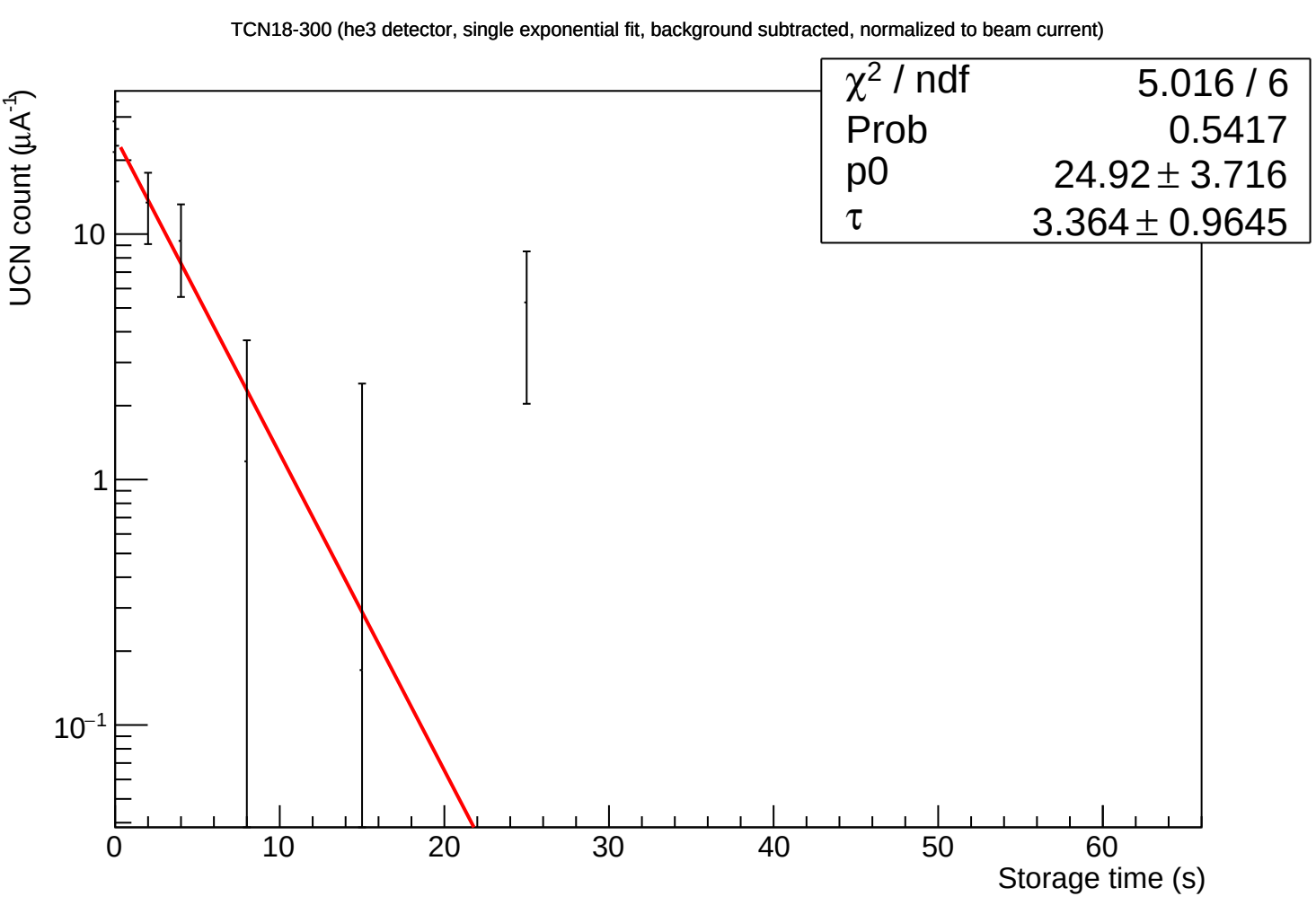
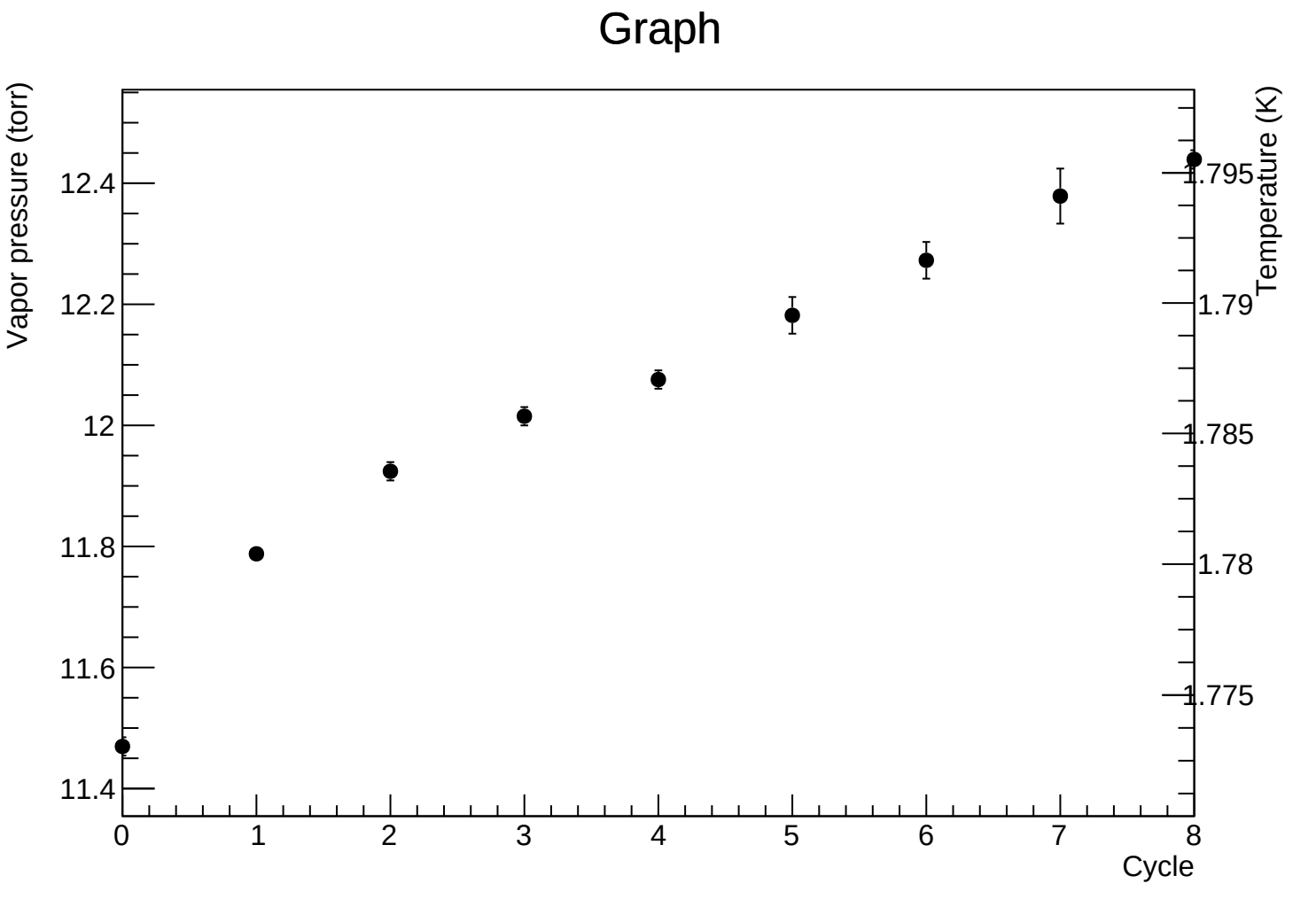
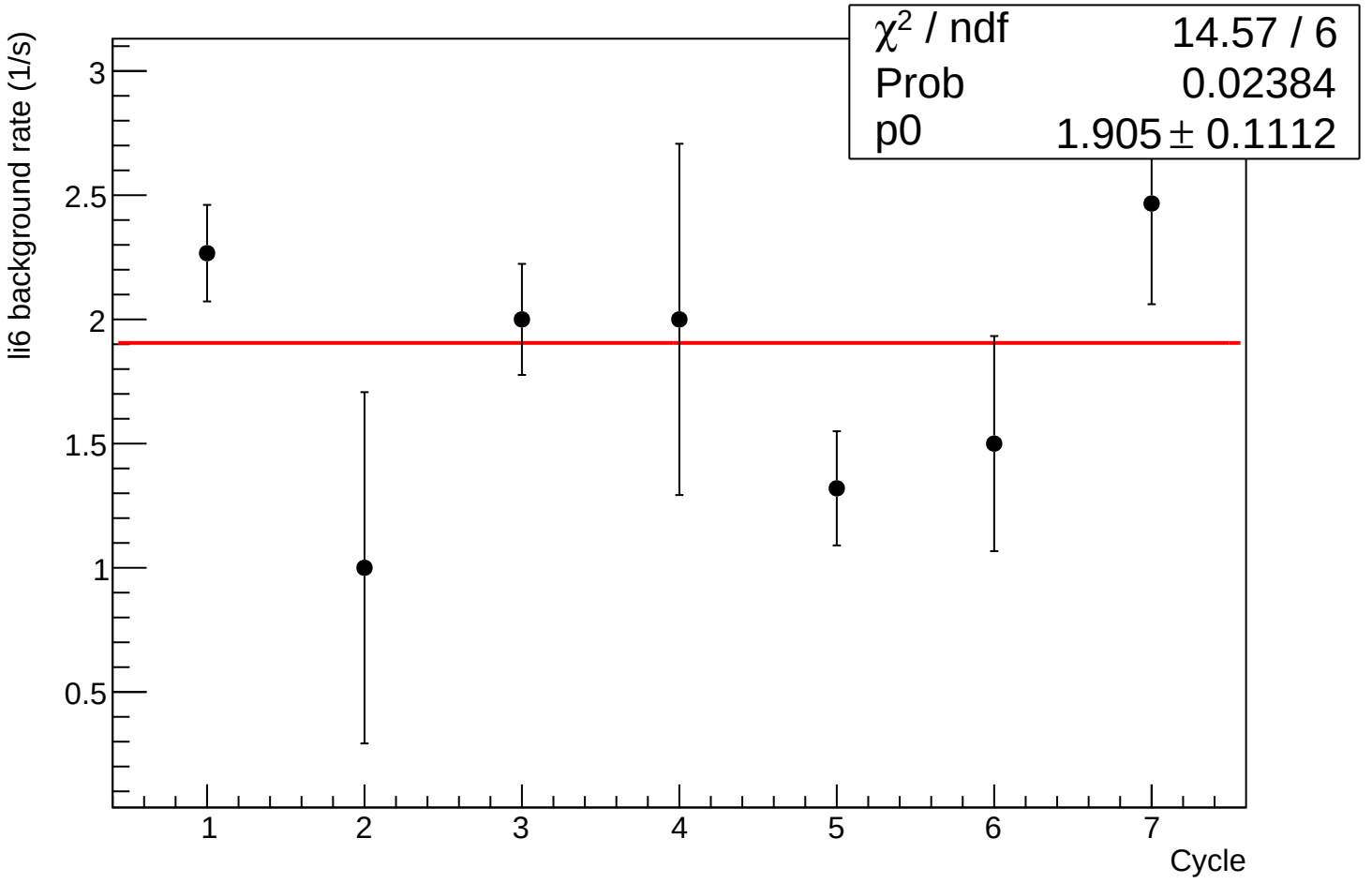
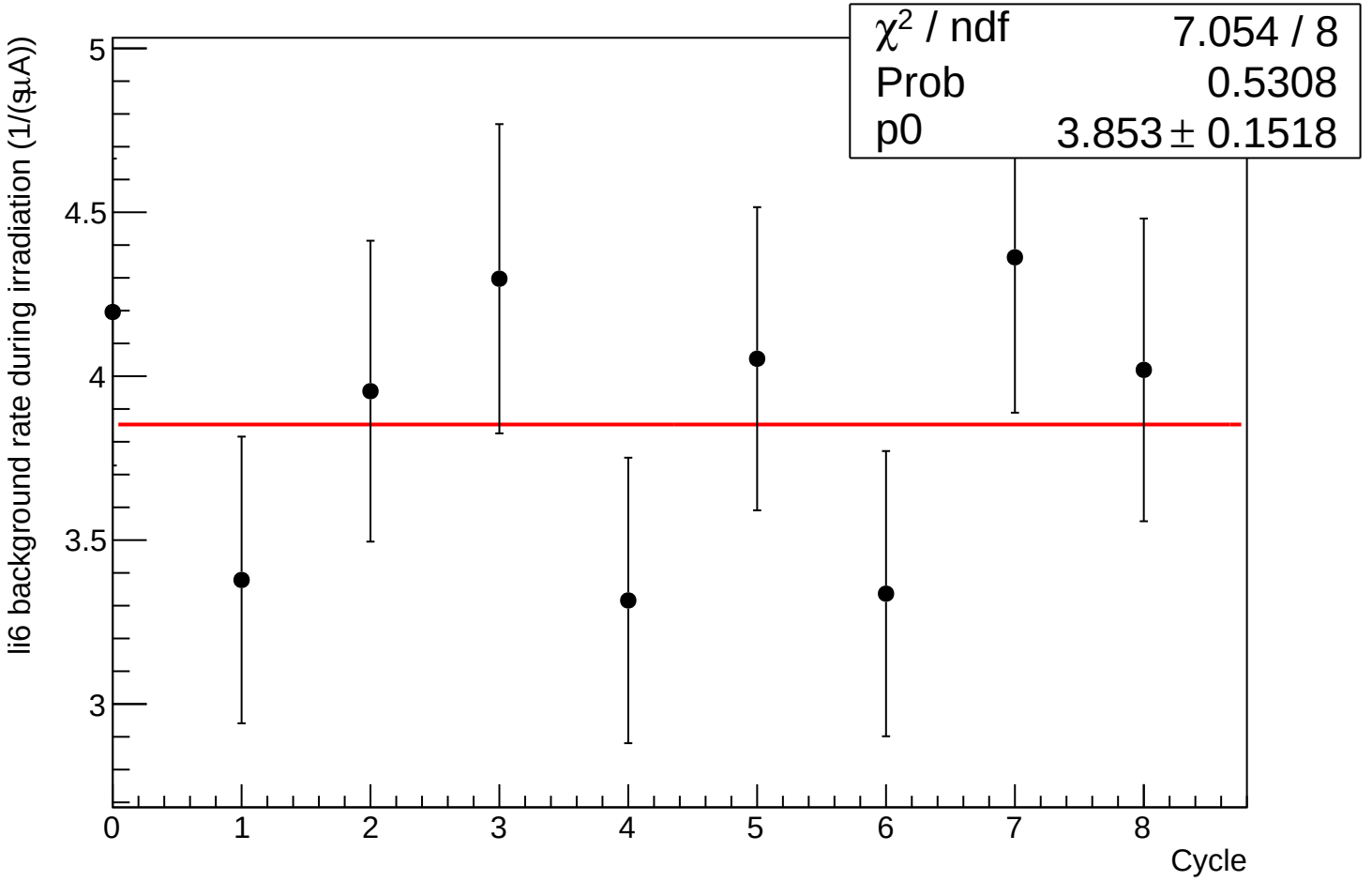
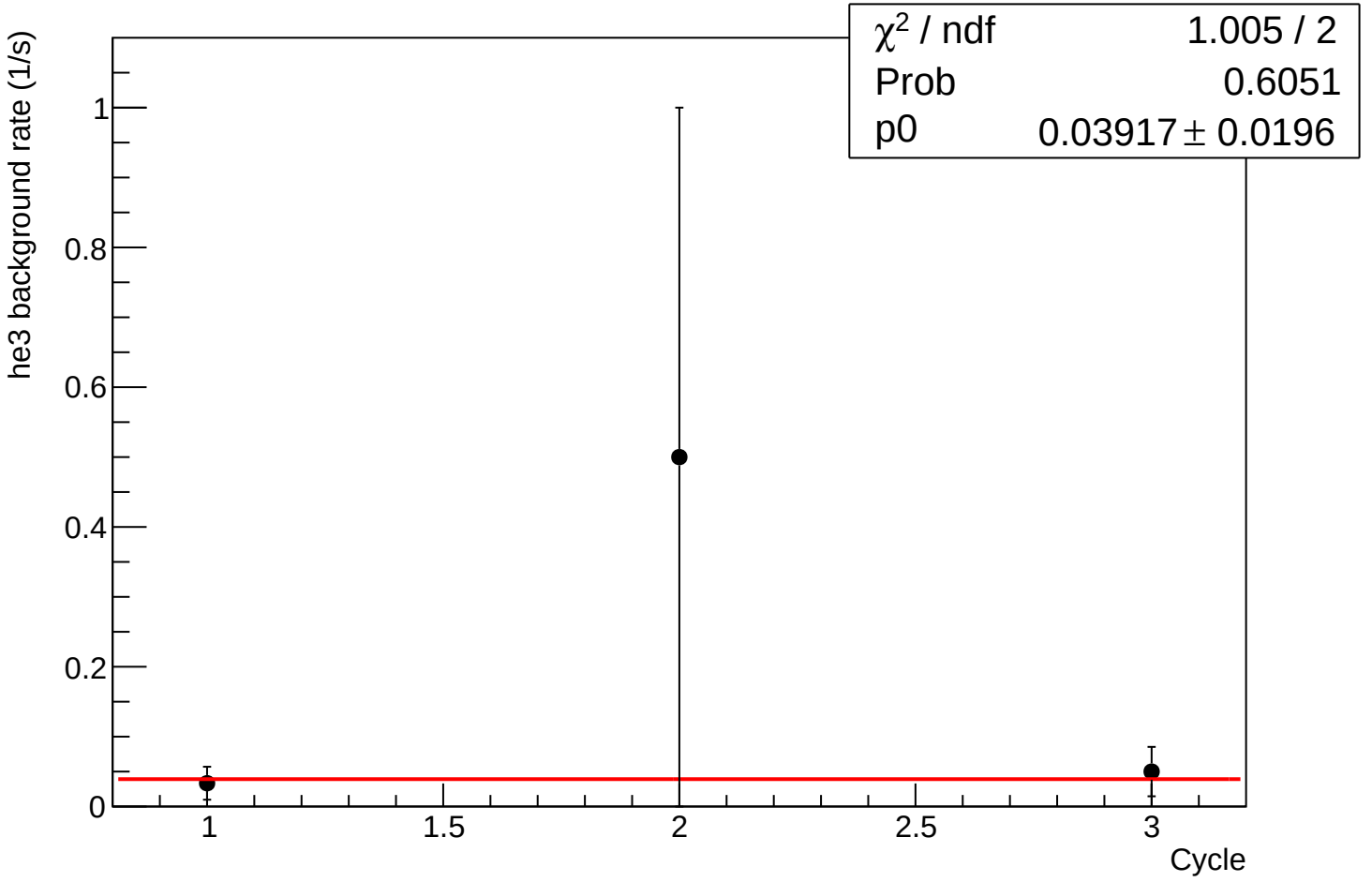

TCN18-300 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 17.82 / 7
Prob 0.0128
p0 1488 ± 27.68
τ 5.399 ± 0.1981
UCN count (μA⁻¹)
10³
10²
10
0
10
20
30
40
50
60
Storage time (s)

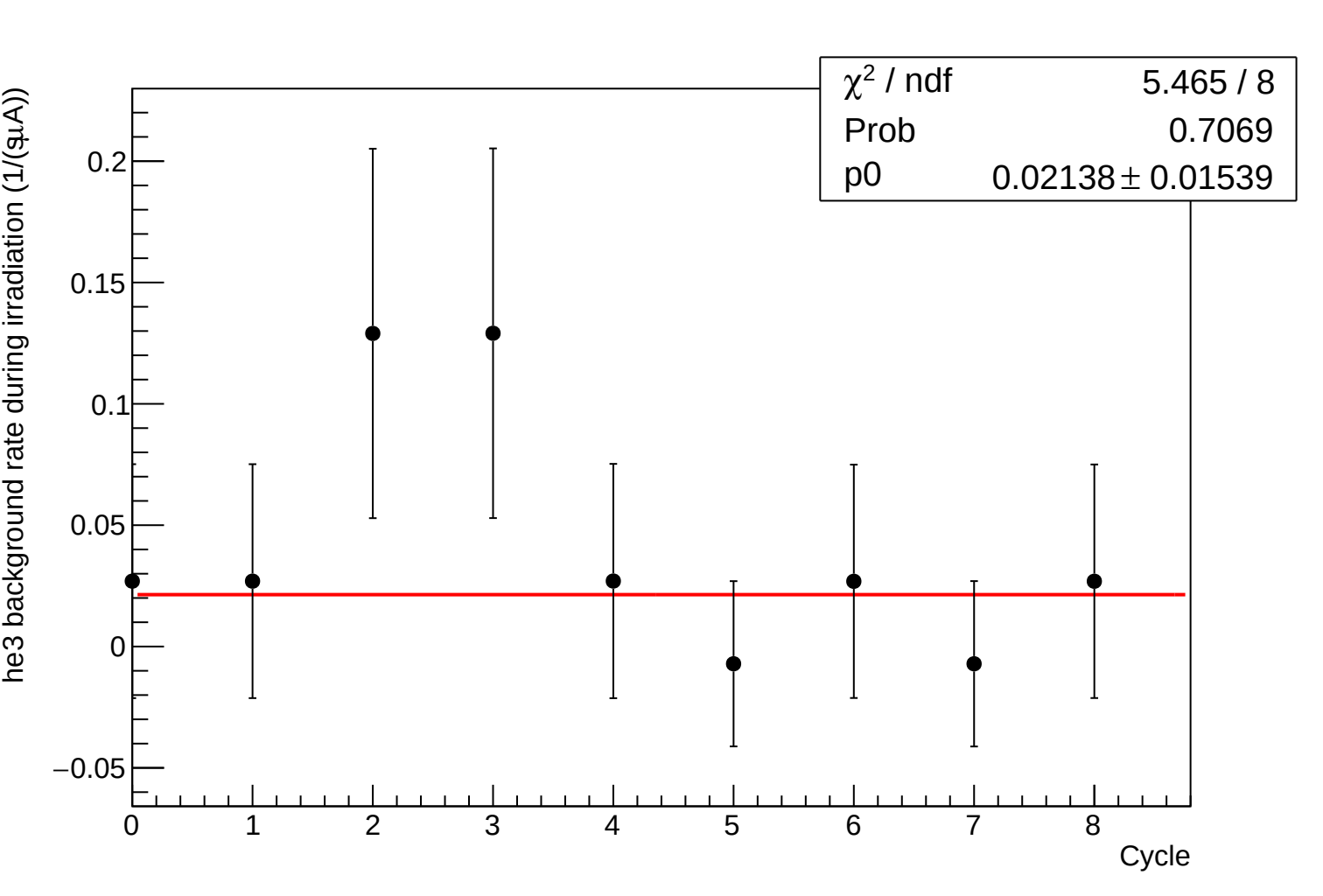

TCN18-300 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 5.016 / 6
Prob 0.5417
p0 24.92 ± 3.716
τ 3.364 ± 0.9645
UCN count (μA⁻¹)
10
1
10⁻¹
0
10
20
30
40
50
60
Storage time (s)

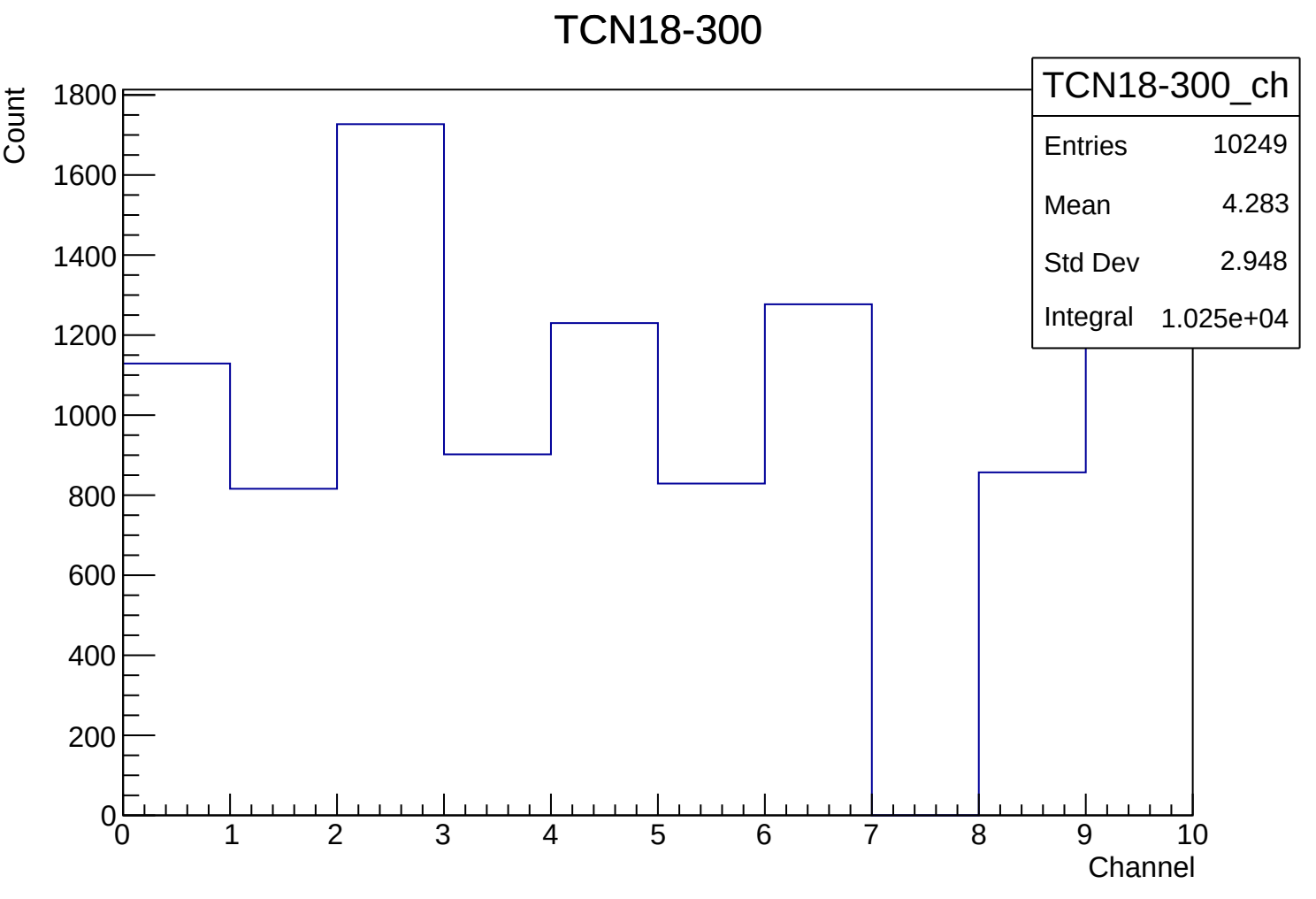

Graph
Vapor pressure (torr)
12.4
12.2
12
11.8
11.6
11.4
Temperature (K)
1.795
1.79
1.785
1.78
1.775
0
1
2
3
4
5
6
7
8
Cycle


li6 background rate (1/s)
3
2.5
2
1.5
1
0.5
1
2
3
4
5
6
7
Cycle
χ² / ndf 14.57 / 6
Prob 0.02384
p0 1.905 ± 0.1112


χ^2 / ndf 7.054 / 8
Prob 0.5308
p0 3.853 ± 0.1518
li6 background rate during irradiation (1/(μA))
Cycle
5
4.5
4
3.5
3
0
1
2
3
4
5
6
7
8


χ² / ndf 1.005 / 2
Prob 0.6051
p0 0.03917 ± 0.0196
he3 background rate (1/s)
0
0.2
0.4
0.6
0.8
1
1
1.5
2
2.5
3
Cycle


χ² / ndf 5.465 / 8
Prob 0.7069
p0 0.02138 ± 0.01539
he3 background rate during irradiation (1/(μA))
0.2
0.15
0.1
0.05
0
−0.05
0
1
2
3
4
5
6
7
8
Cycle


TCN18-300
TCN18-300_ch
Entries 10249
Mean 4.283
Std Dev 2.948
Integral 1.025e+04
Count
Channel
0
200
400
600
800
1000
1200
1400
1600
1800
0
1
2
3
4
5
6
7
8
9
10