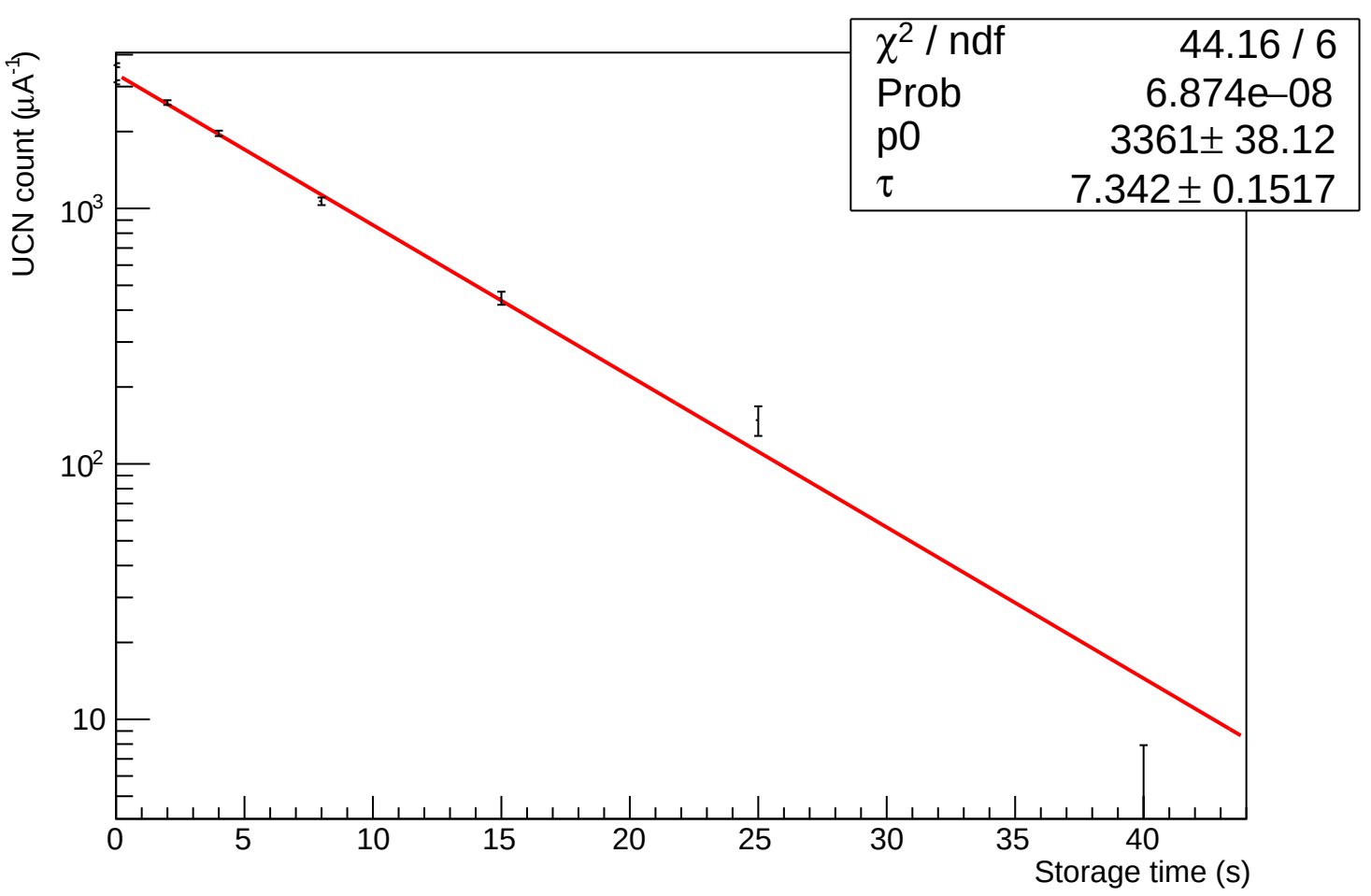
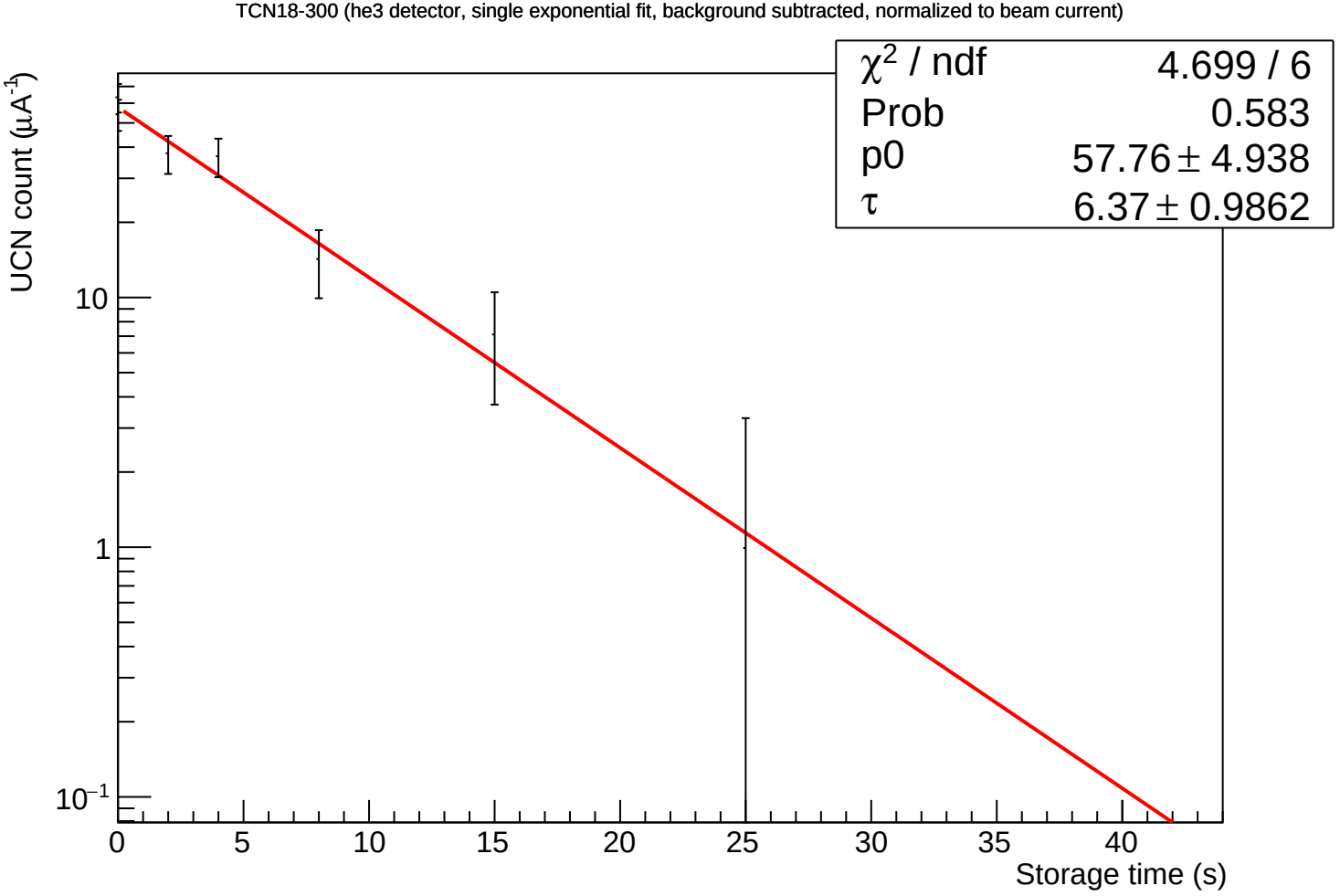
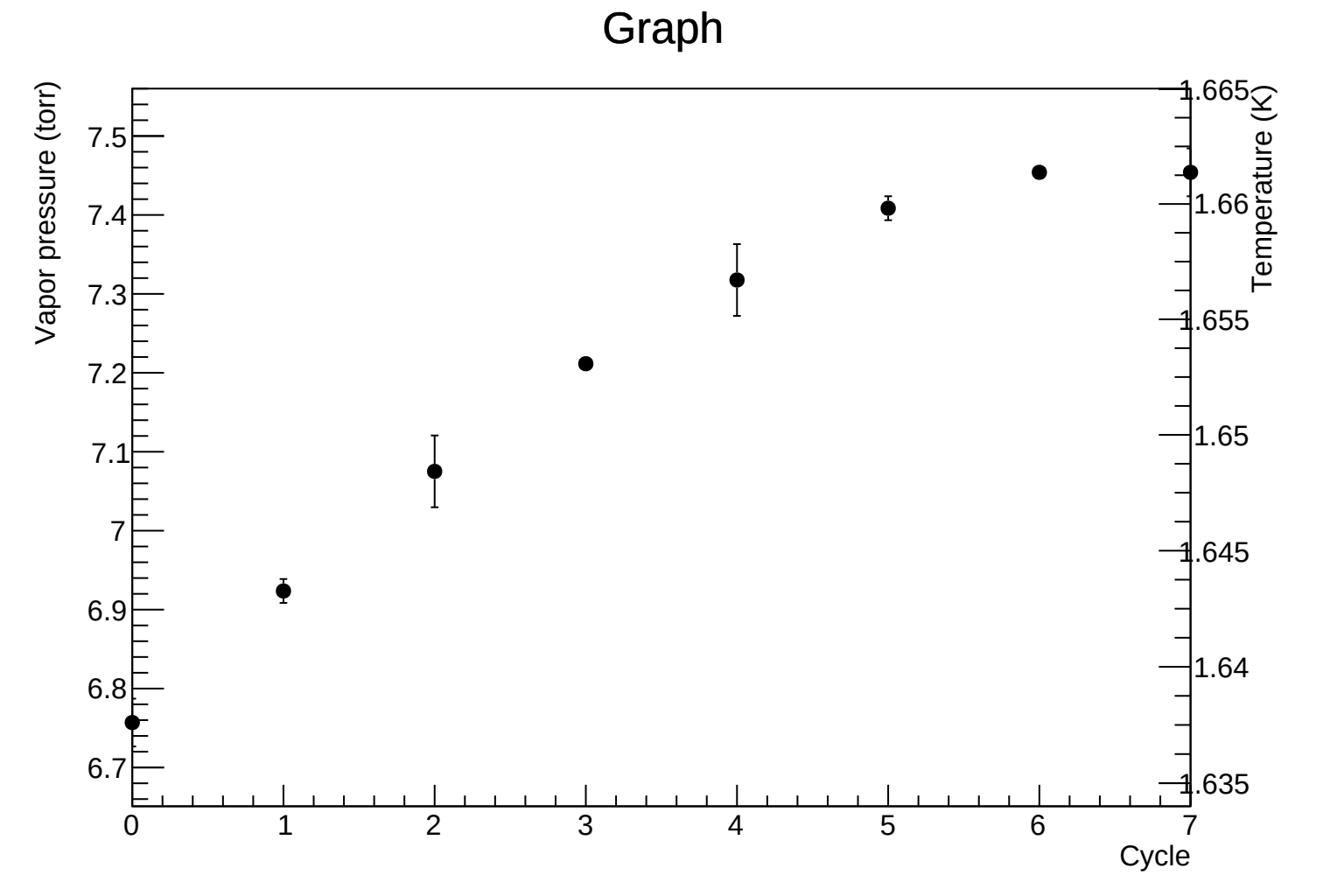
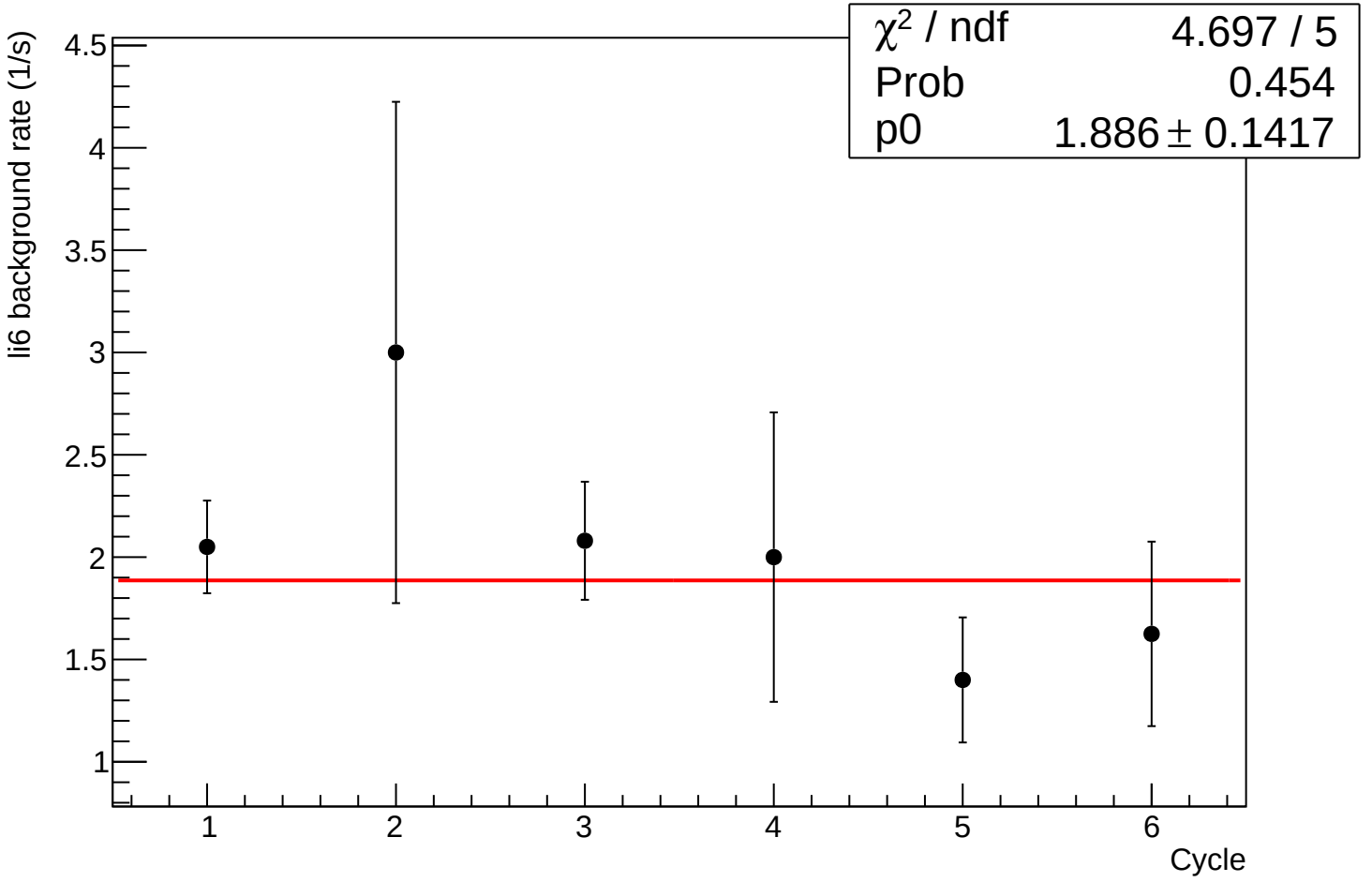
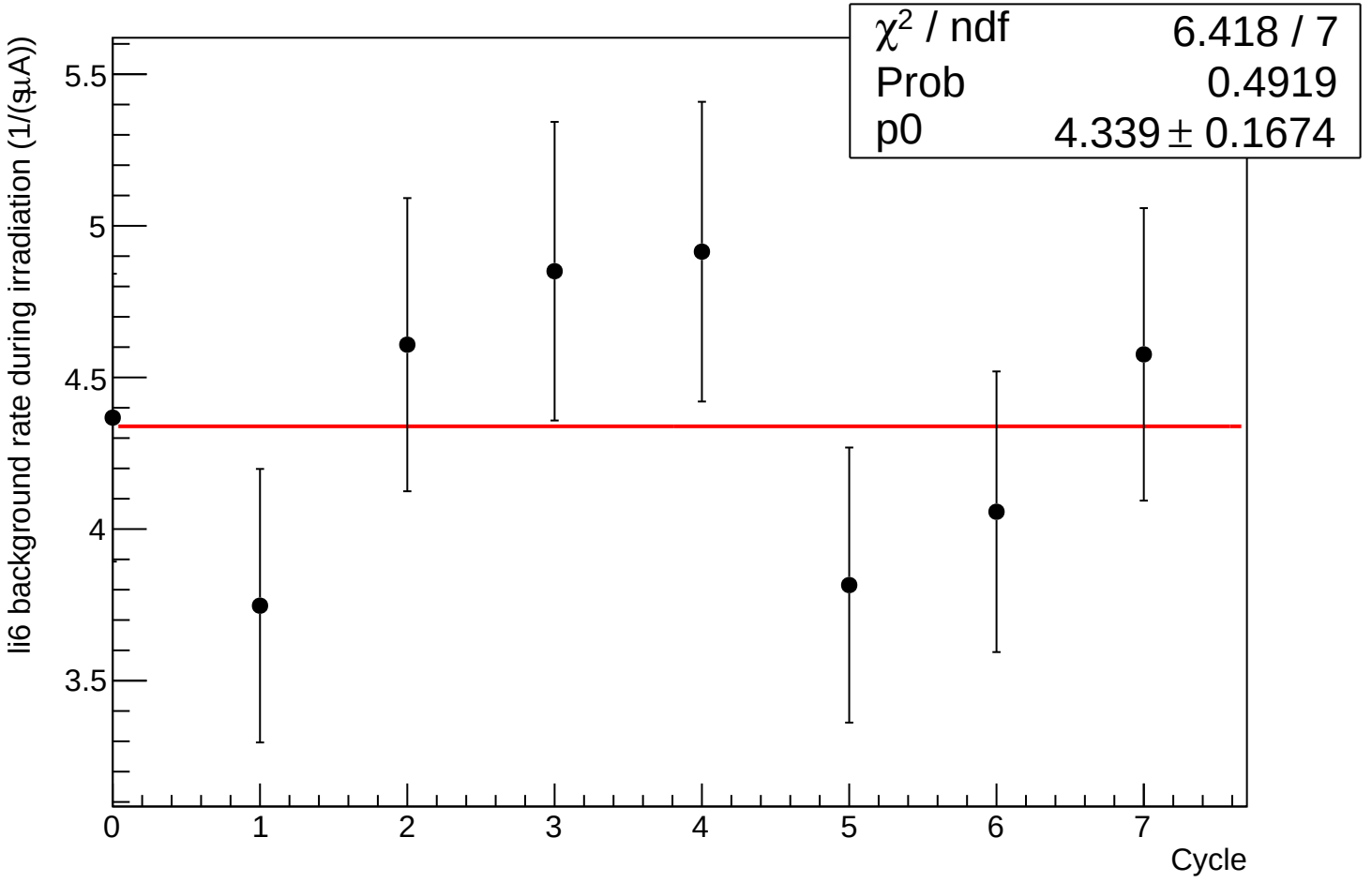
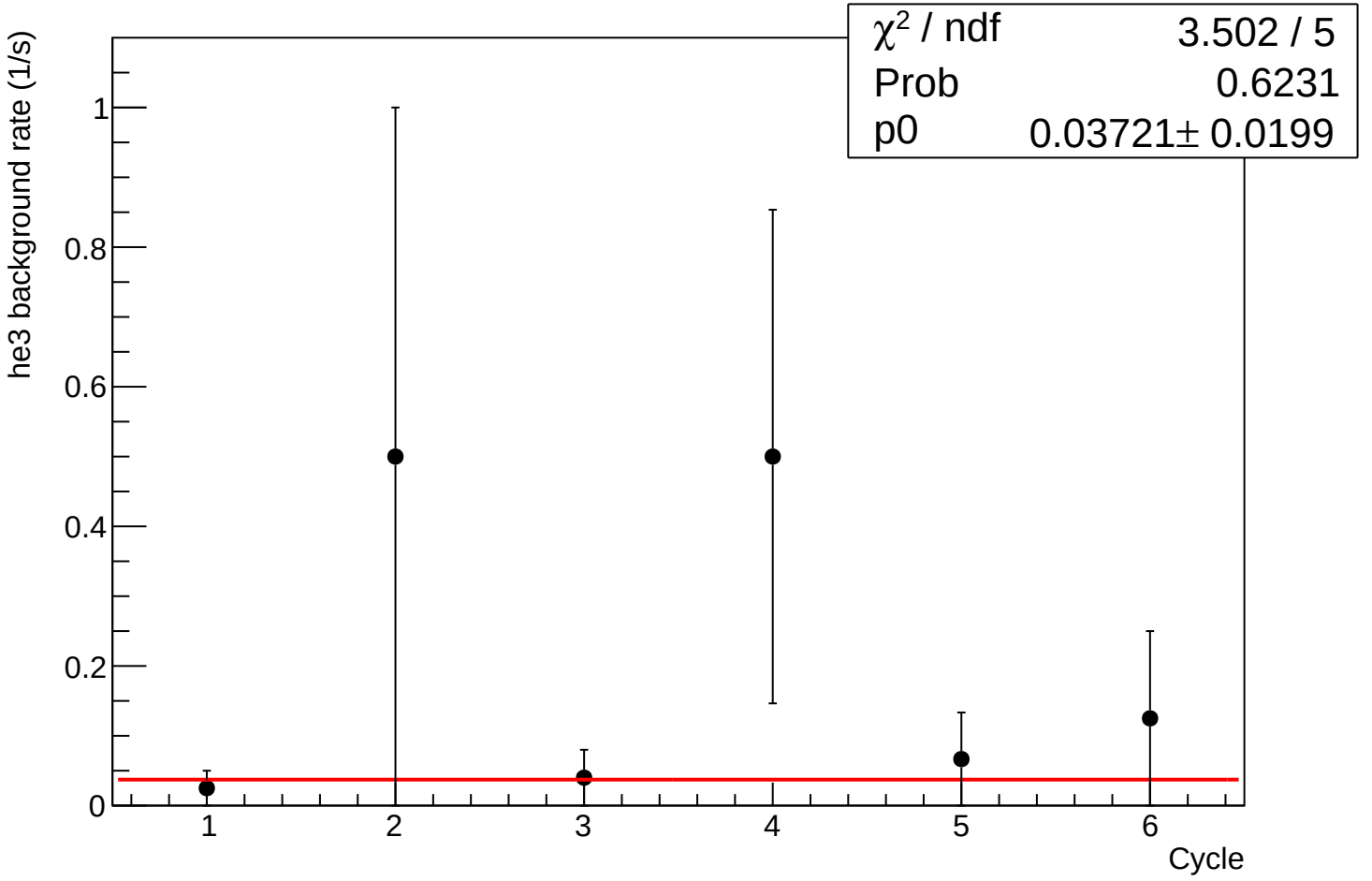

TCN18-300 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 44.16 / 6
Prob 6.874e−08
p0 3361 ± 38.12
τ 7.342 ± 0.1517
UCN count (μA⁻¹)
10³
10²
10
0
5
10
15
20
25
30
35
40
Storage time (s)

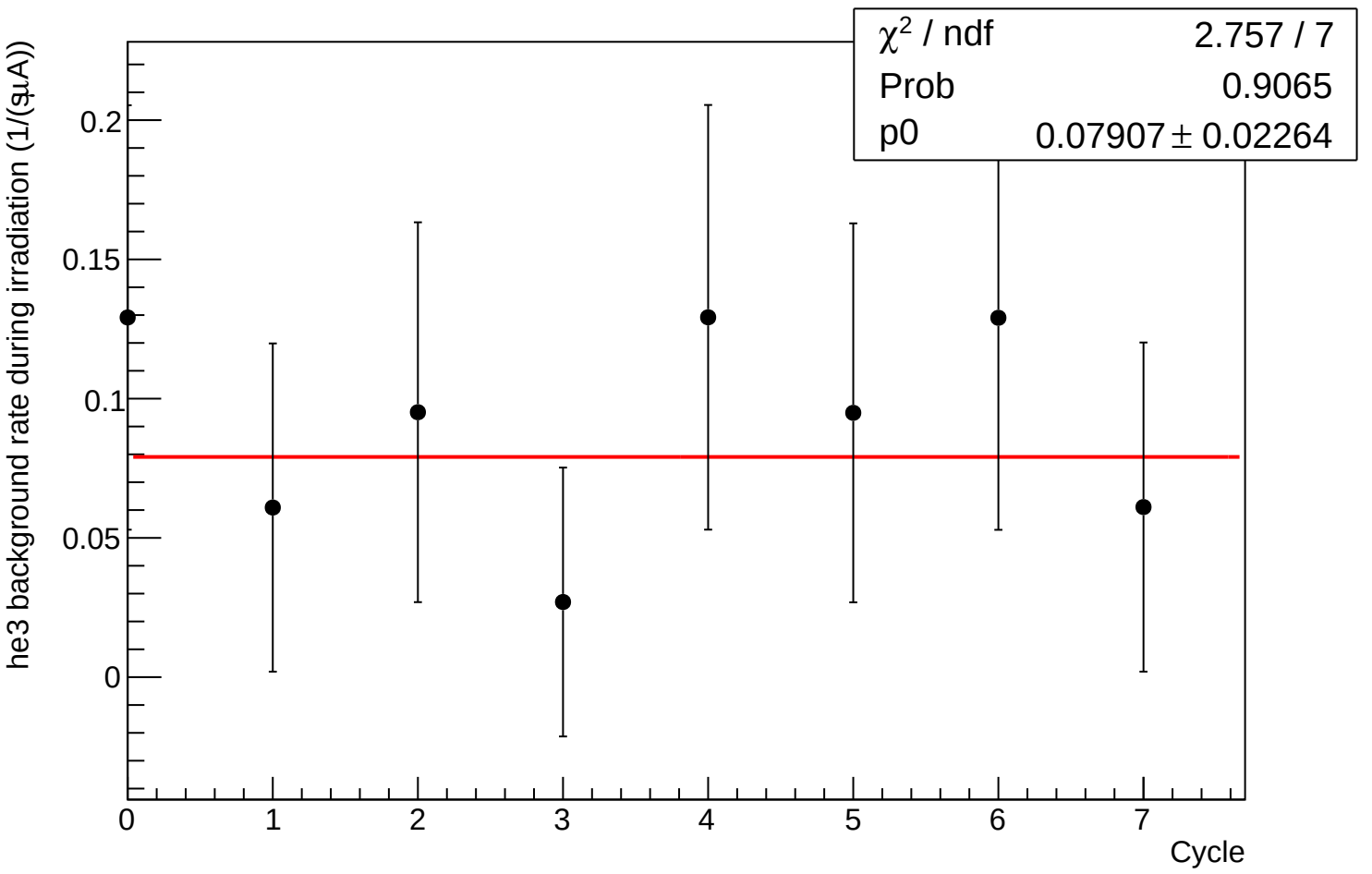

TCN18-300 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 4.699 / 6
Prob 0.583
p0 57.76 ± 4.938
τ 6.37 ± 0.9862
UCN count (μA⁻¹)
10
1
10⁻¹
0
5
10
15
20
25
30
35
40
Storage time (s)

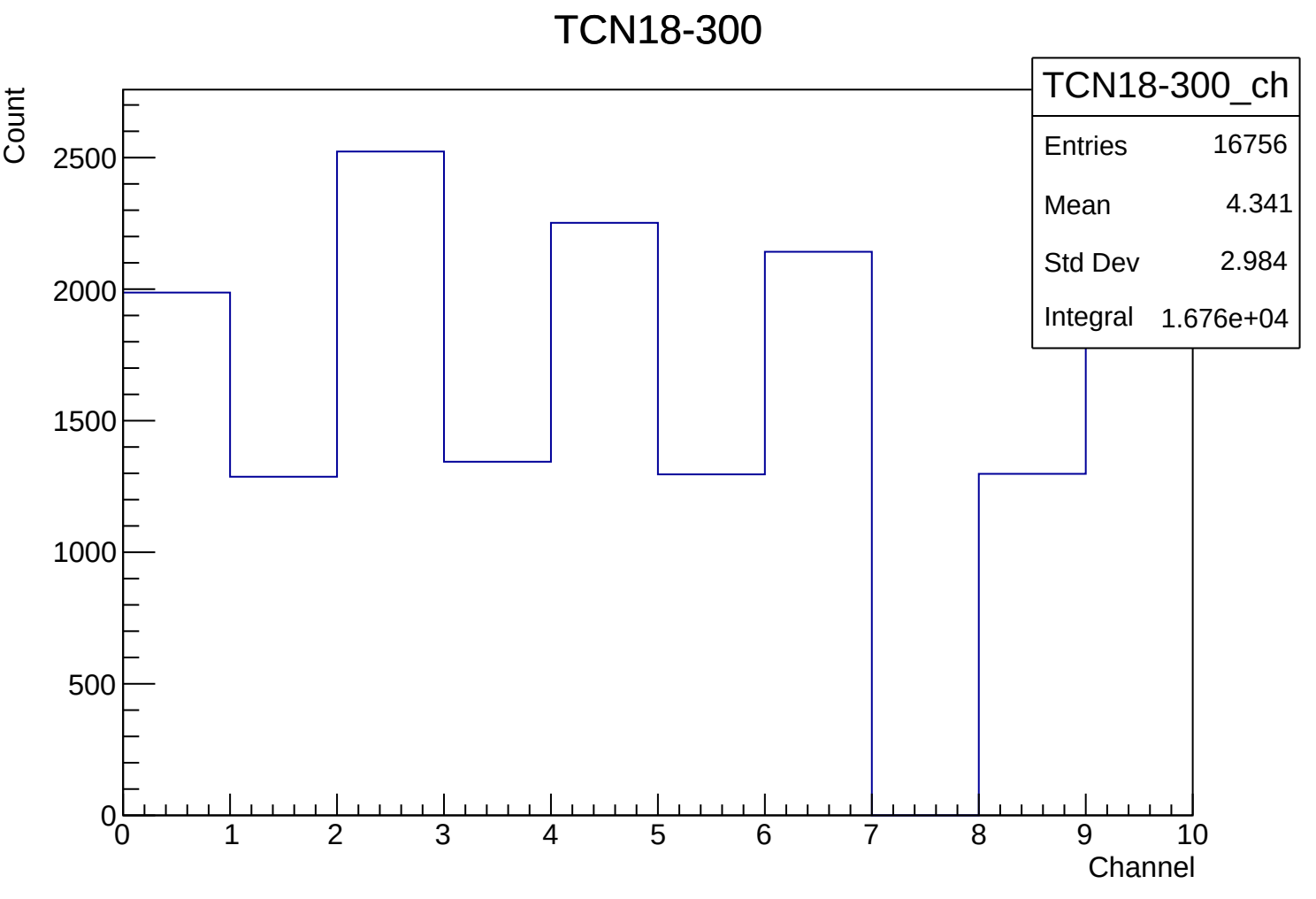

Graph
Vapor pressure (torr)
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
Temperature (K)
1.665
1.66
1.655
1.65
1.645
1.64
1.635
0
1
2
3
4
5
6
7
Cycle


χ^2 / ndf 4.697 / 5
Prob 0.454
p0 1.886 ± 0.1417
li6 background rate (1/s)
4.5
4
3.5
3
2.5
2
1.5
1
1
2
3
4
5
6
Cycle


χ² / ndf 6.418 / 7
Prob 0.4919
p0 4.339 ± 0.1674
li6 background rate during irradiation (1/(μA))
5.5
5
4.5
4
3.5
0
1
2
3
4
5
6
7
Cycle


χ² / ndf 3.502 / 5
Prob 0.6231
p0 0.03721± 0.0199
he3 background rate (1/s)
0
0.2
0.4
0.6
0.8
1
1
2
3
4
5
6
Cycle


χ² / ndf 2.757 / 7
Prob 0.9065
p0 0.07907 ± 0.02264
he3 background rate during irradiation (1/(μA))
0.2
0.15
0.1
0.05
0
0
1
2
3
4
5
6
7
Cycle


TCN18-300
TCN18-300_ch
Entries 16756
Mean 4.341
Std Dev 2.984
Integral 1.676e+04
Count
2500
2000
1500
1000
500
0
0 1 2 3 4 5 6 7 8 9 10
Channel