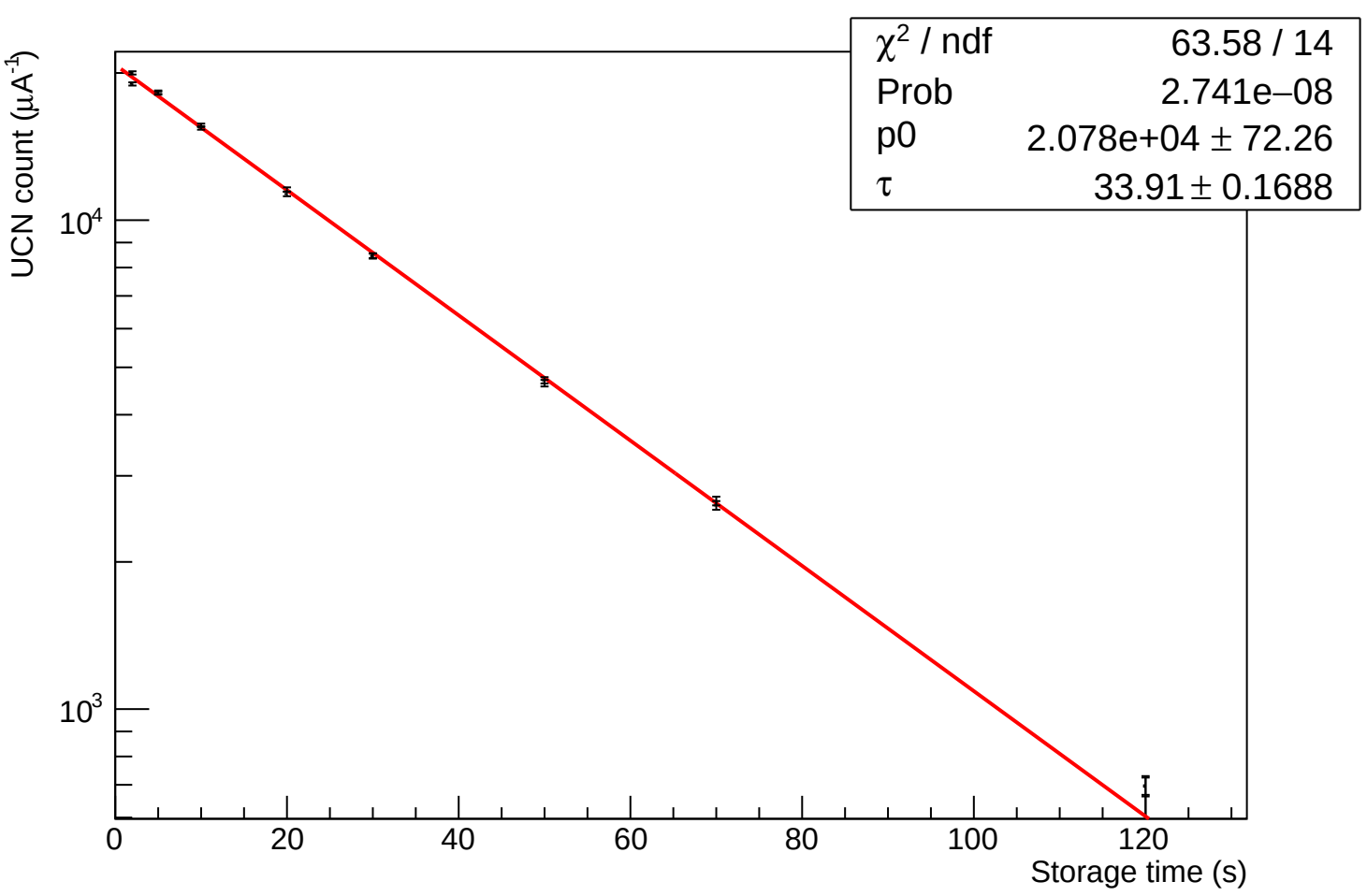
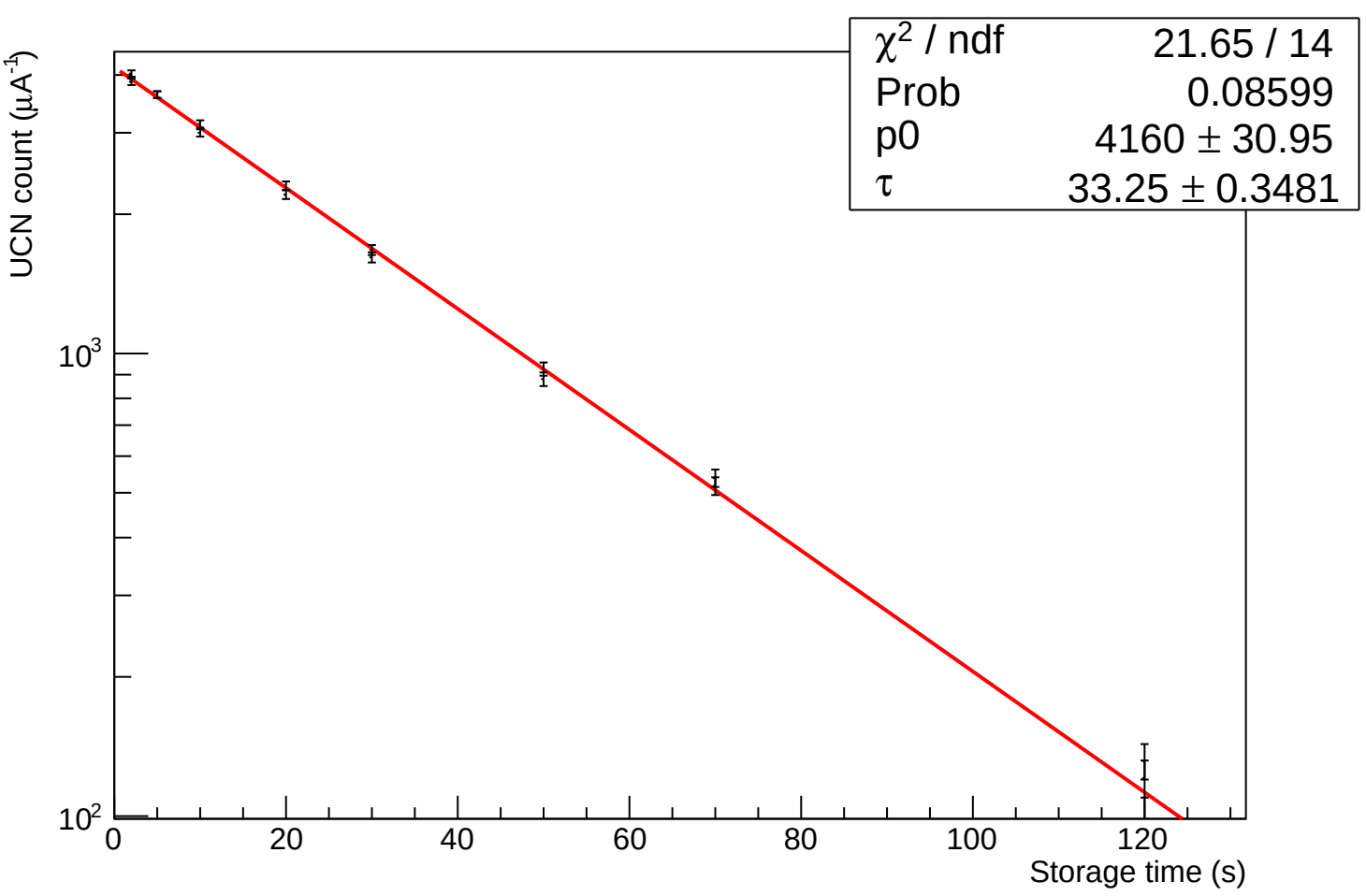
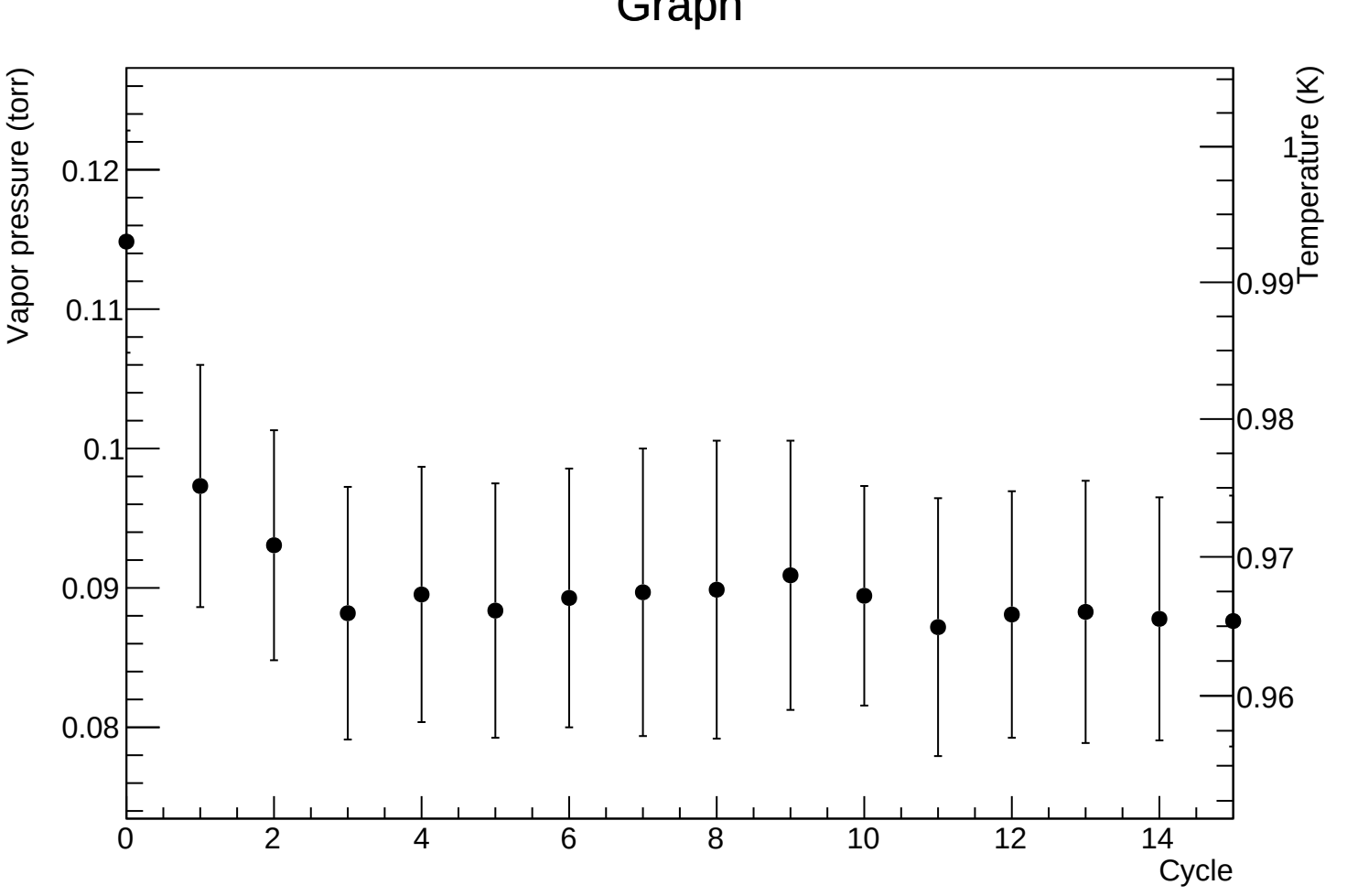
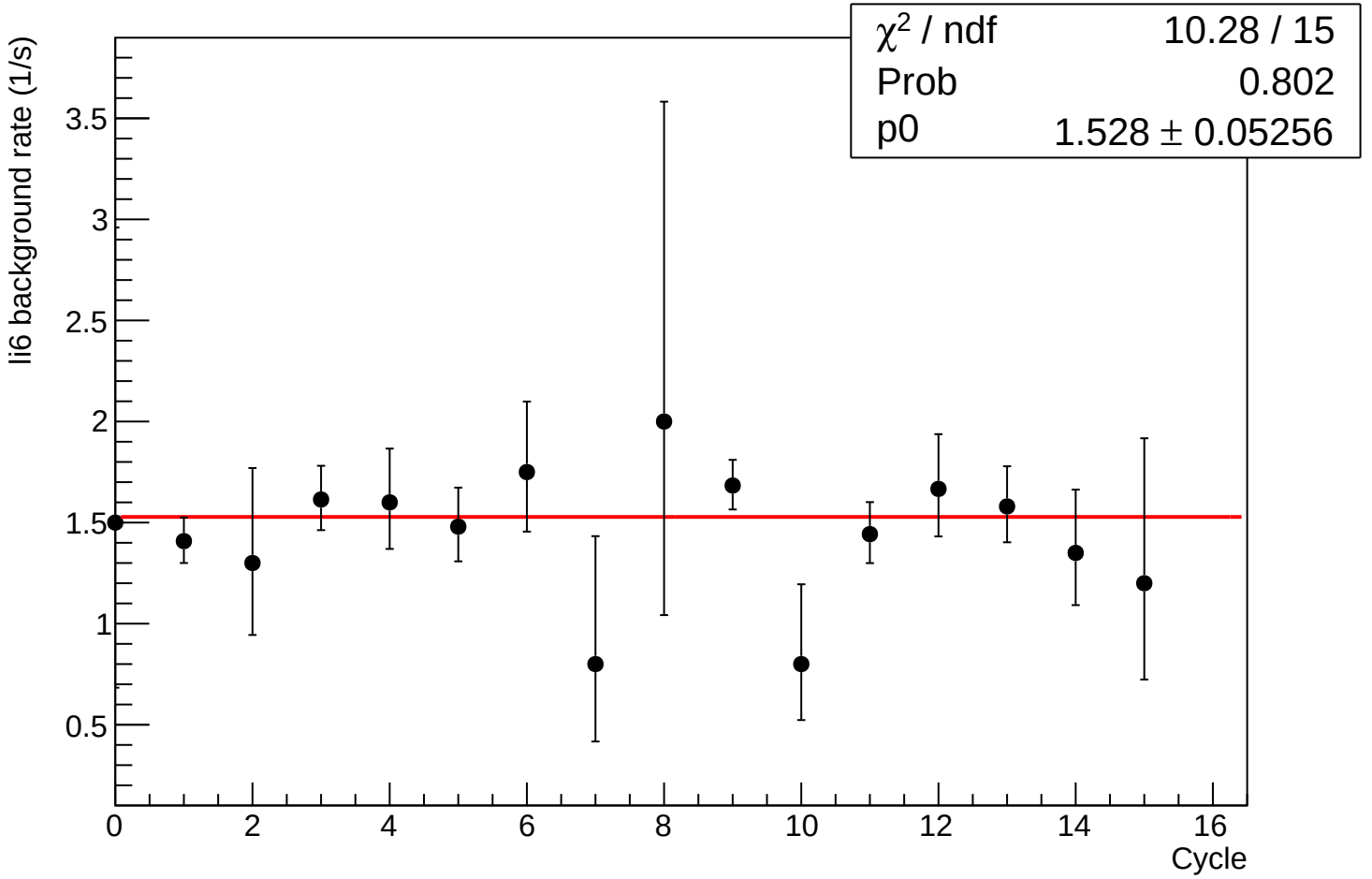
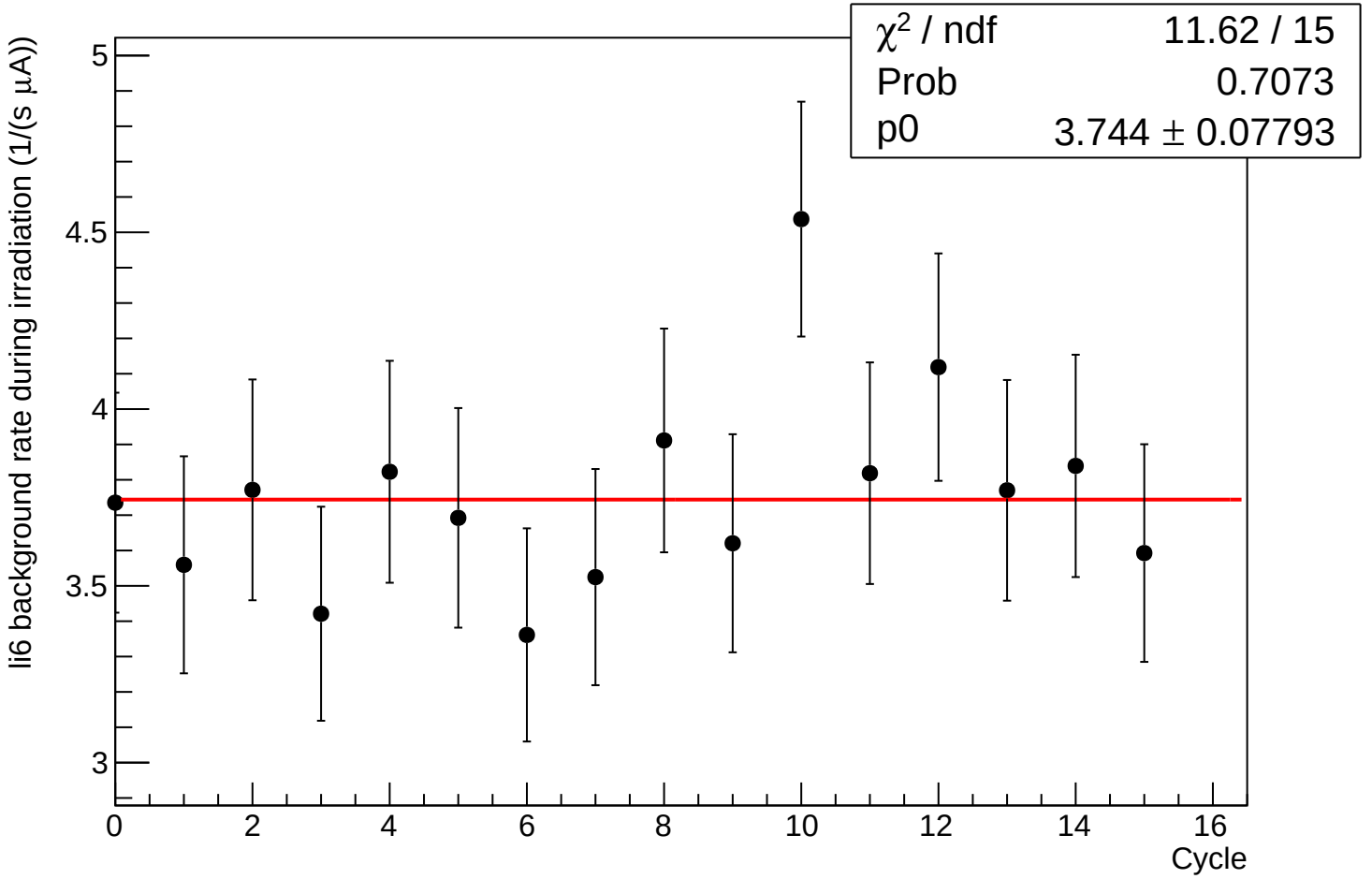
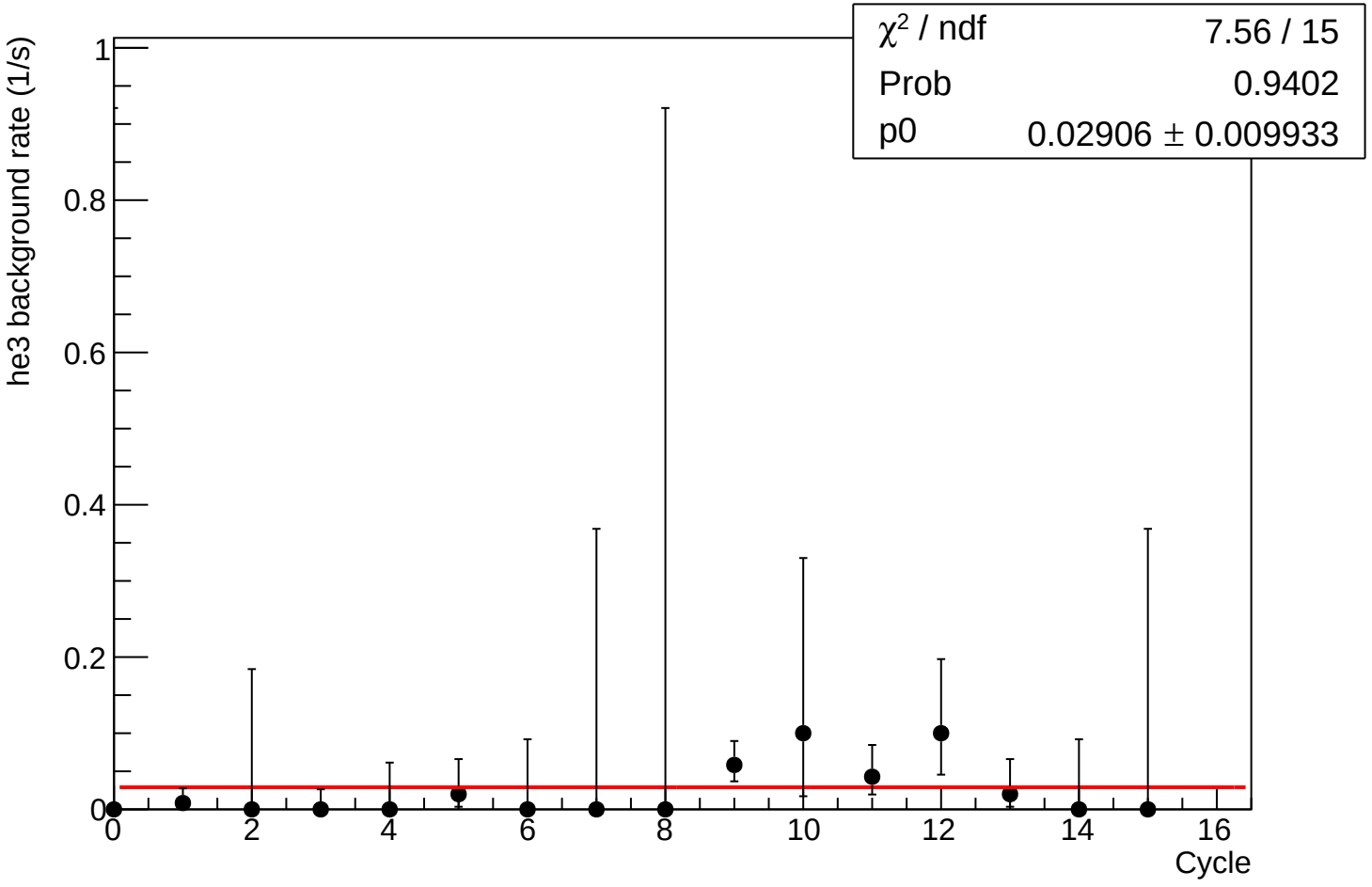

TCN19-270 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 63.58 / 14
Prob 2.741e−08
p0 2.078e+04 ± 72.26
τ 33.91 ± 0.1688
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

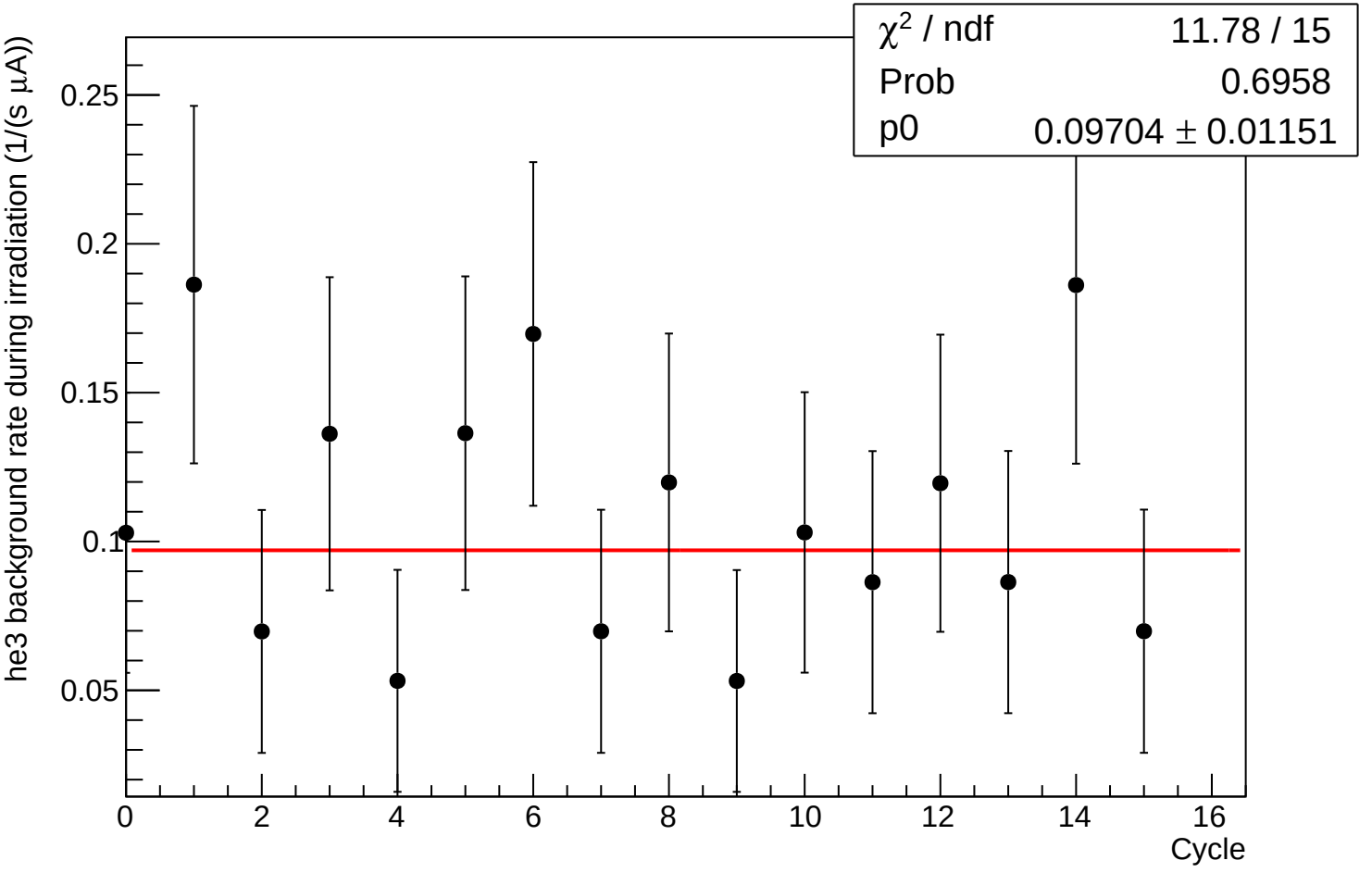

TCN19-270 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 21.65 / 14
Prob 0.08599
p0 4160 ± 30.95
τ 33.25 ± 0.3481
UCN count (μA⁻¹)
10³
10²
0
20
40
60
80
100
120
Storage time (s)

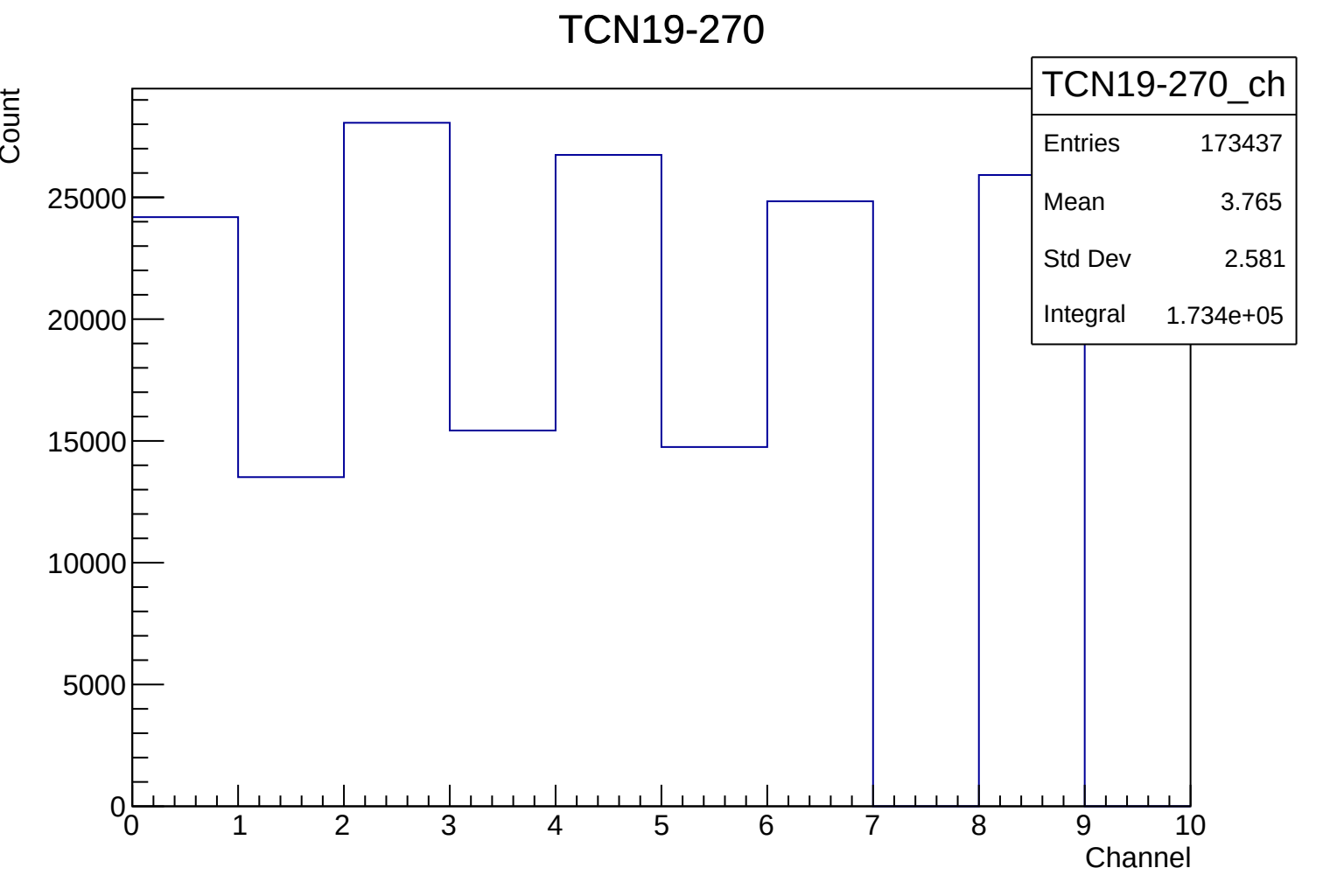

Graph
Vapor pressure (torr)
0.12
0.11
0.1
0.09
0.08
Temperature (K)
1
0.99
0.98
0.97
0.96
0
2
4
6
8
10
12
14
Cycle


χ^2 / ndf 10.28 / 15
Prob 0.802
p0 1.528 ± 0.05256
li6 background rate (1/s)
3.5
3
2.5
2
1.5
1
0.5
0
2
4
6
8
10
12
14
16
Cycle


χ^2 / ndf 11.62 / 15
Prob 0.7073
p0 3.744 ± 0.07793
li6 background rate during irradiation (1/(s μA))
Cycle
5
4.5
4
3.5
3
0
2
4
6
8
10
12
14
16


χ² / ndf 7.56 / 15
Prob 0.9402
p0 0.02906 ± 0.009933
he3 background rate (1/s)
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
12
14
16
Cycle


χ² / ndf 11.78 / 15
Prob 0.6958
p0 0.09704 ± 0.01151
he3 background rate during irradiation (1/(s μA))
0.25
0.2
0.15
0.1
0.05
0
2
4
6
8
10
12
14
16
Cycle


TCN19-270
TCN19-270_ch
Entries 173437
Mean 3.765
Std Dev 2.581
Integral 1.734e+05
Count
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10
Channel