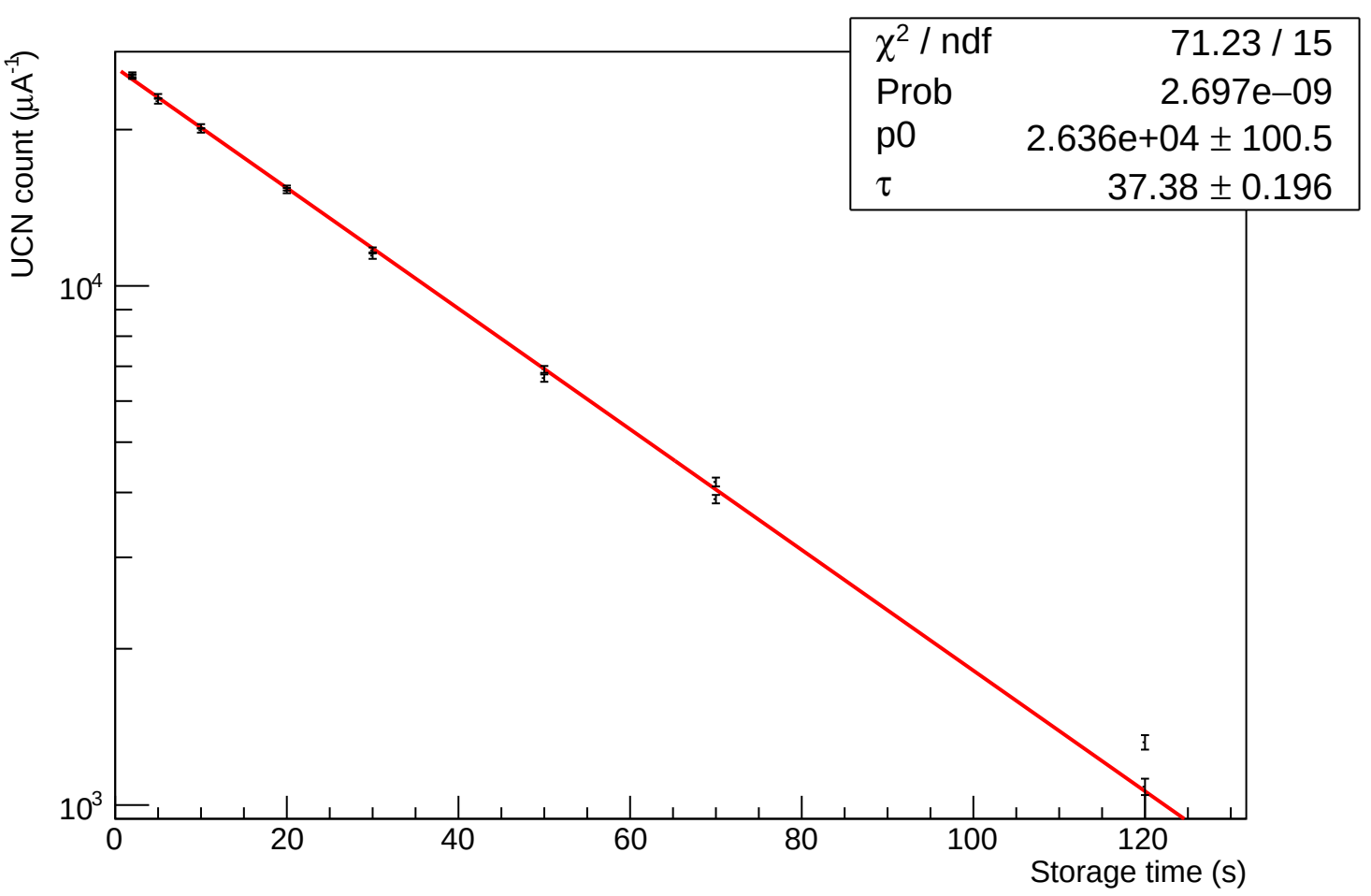
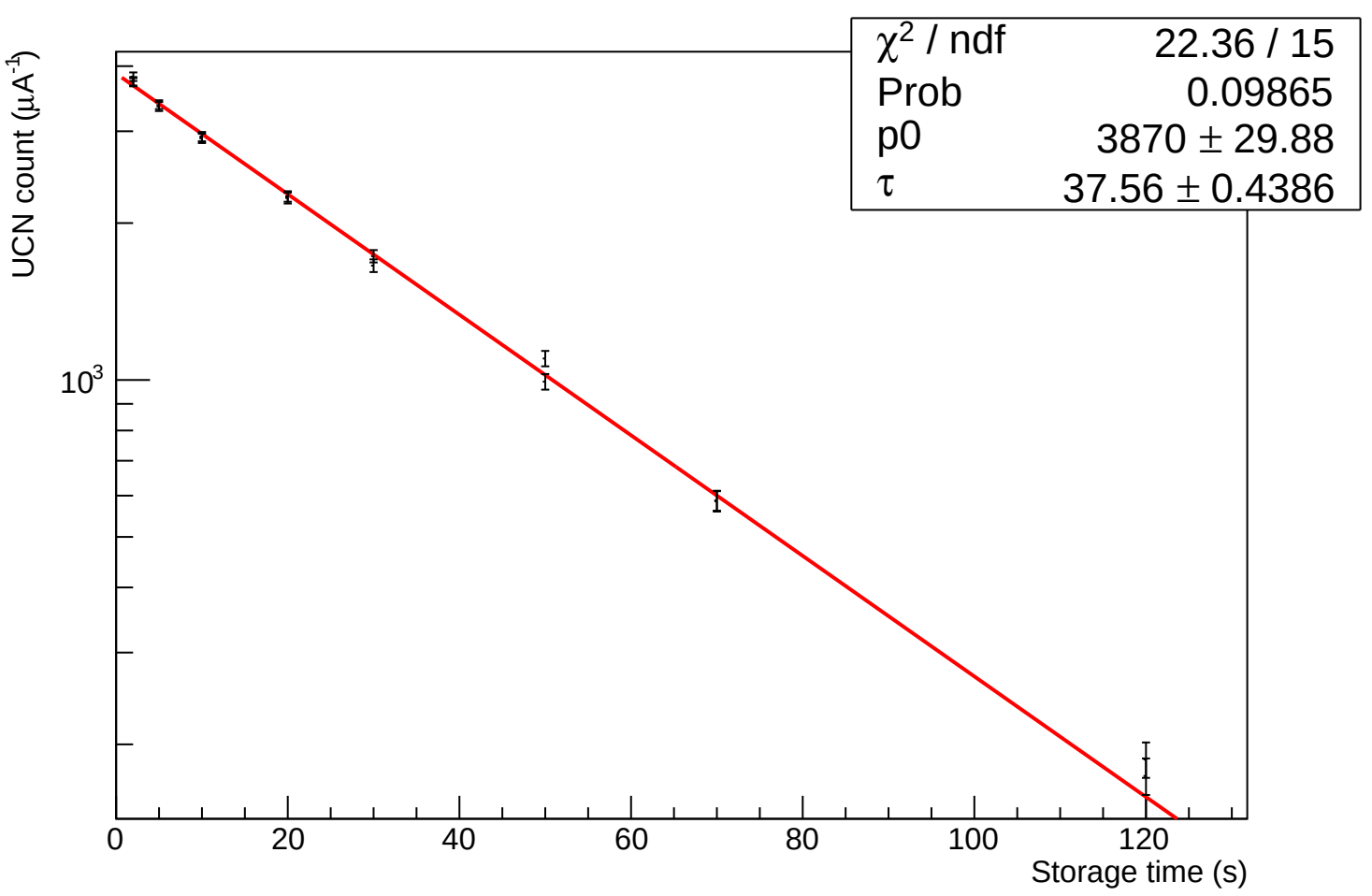
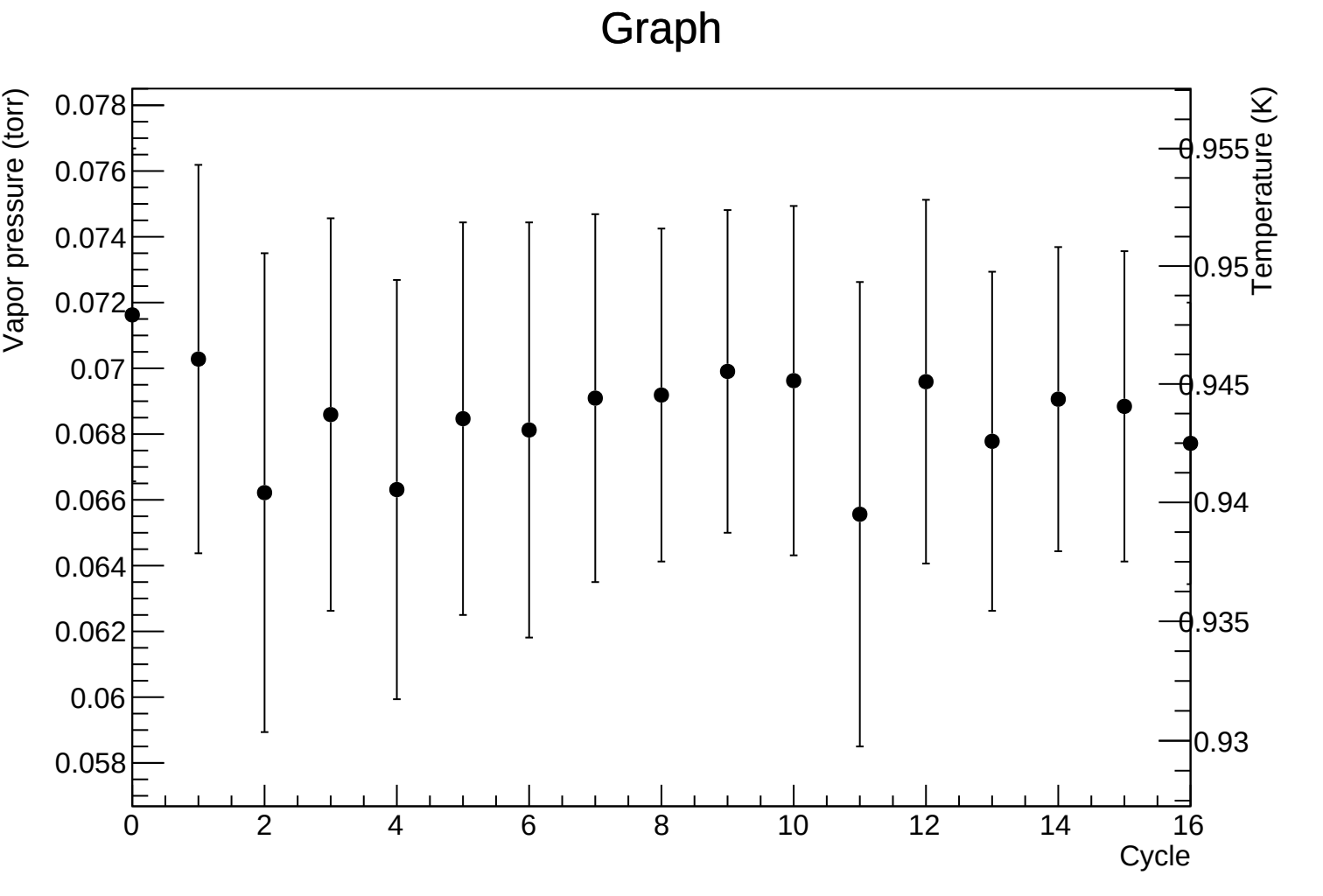
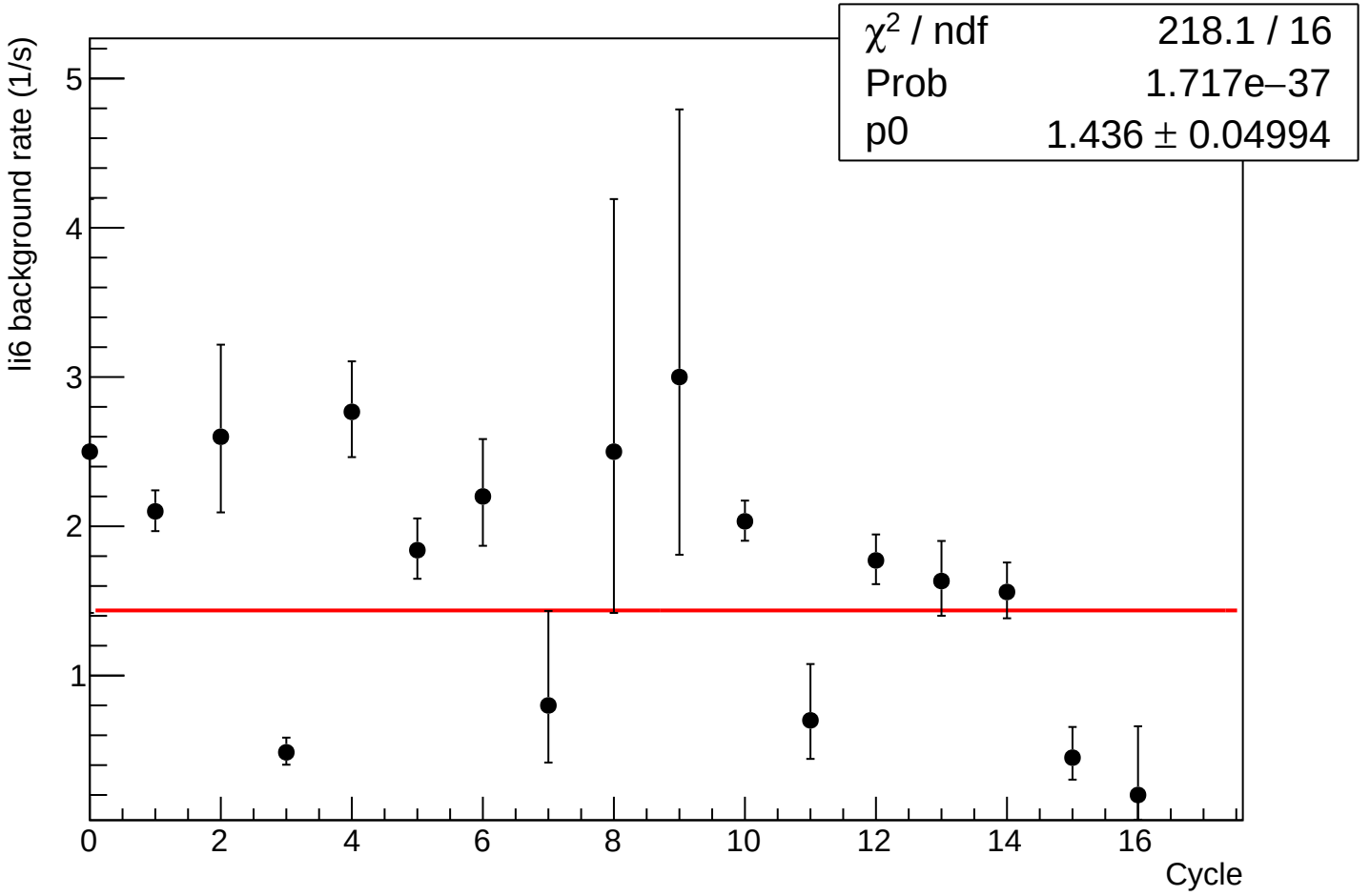
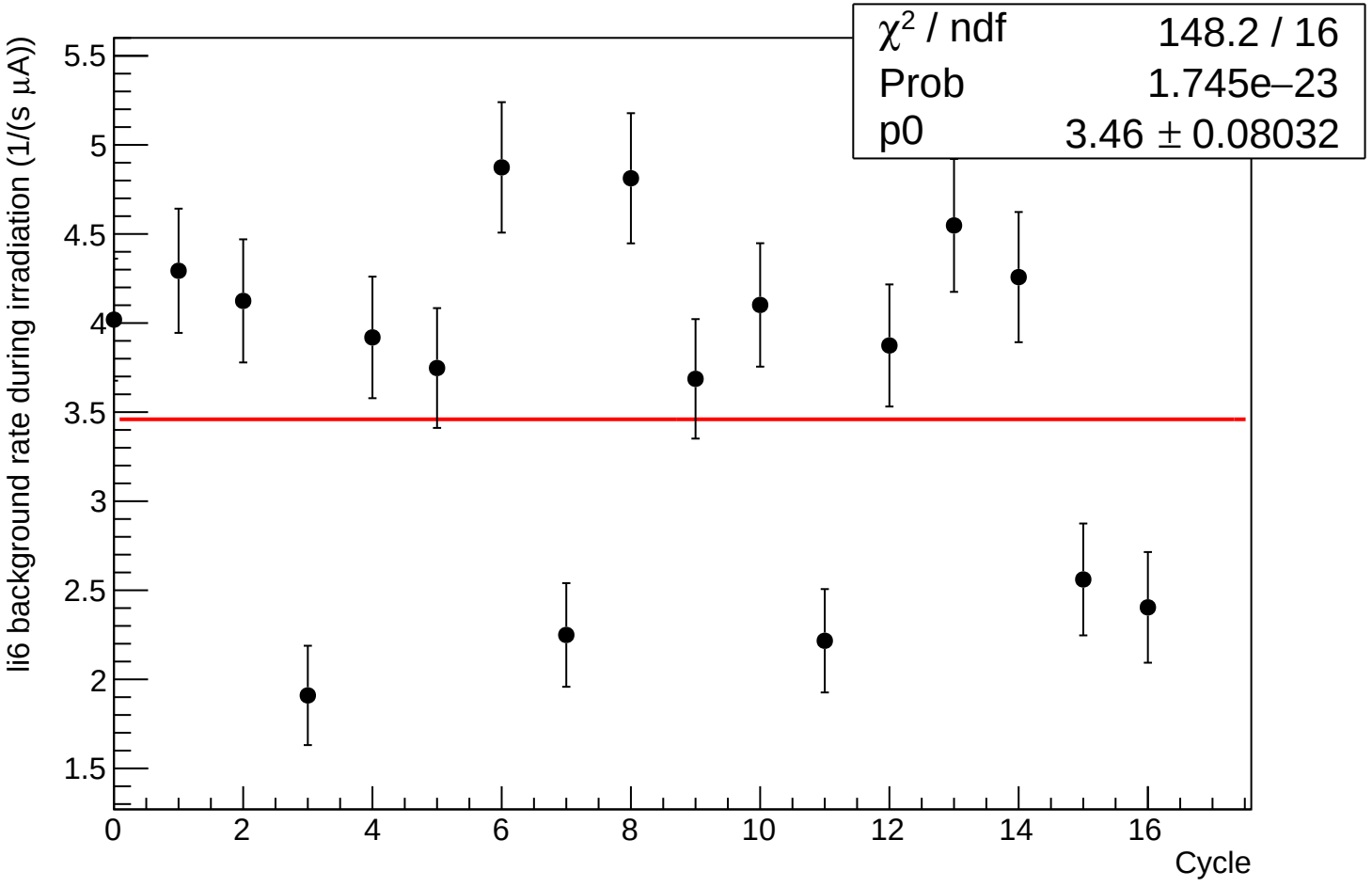
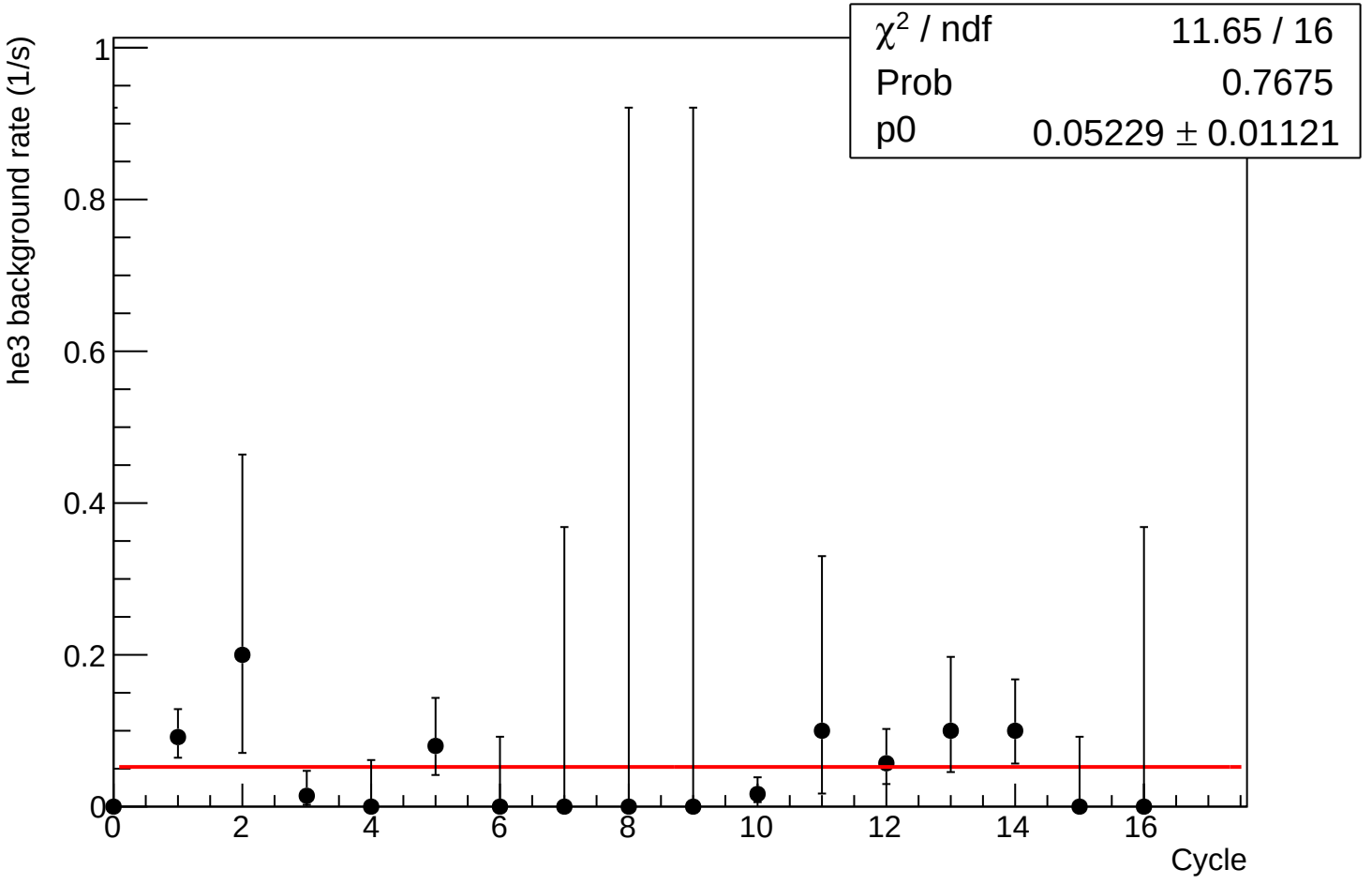

TCN19-010 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 71.23 / 15
Prob 2.697e−09
p0 2.636e+04 ± 100.5
τ 37.38 ± 0.196
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

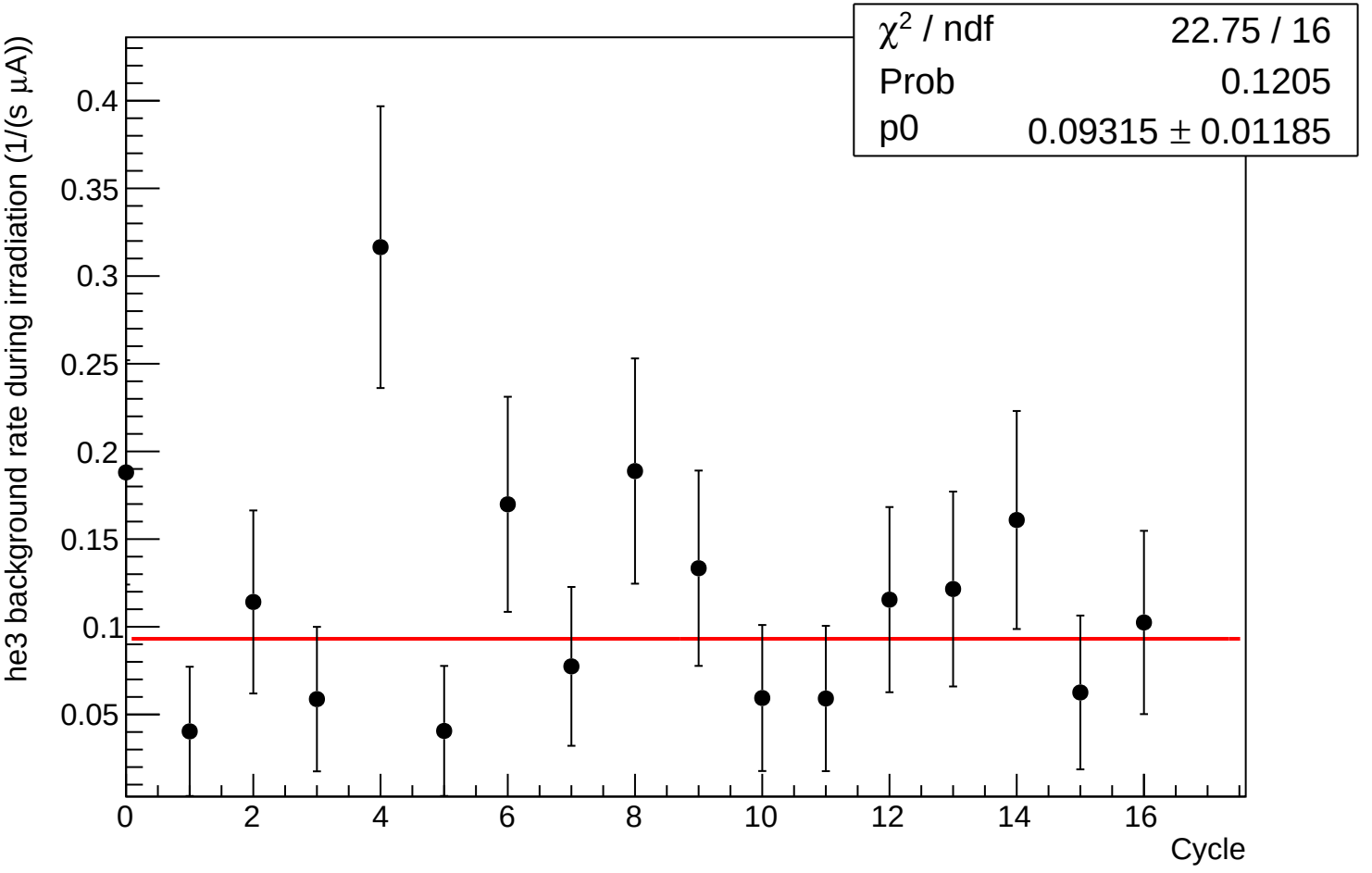

TCN19-010 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ2 / ndf 22.36 / 15
Prob 0.09865
p0 3870 ± 29.88
τ 37.56 ± 0.4386
UCN count (μA-1)
10^3
0
20
40
60
80
100
120
Storage time (s)

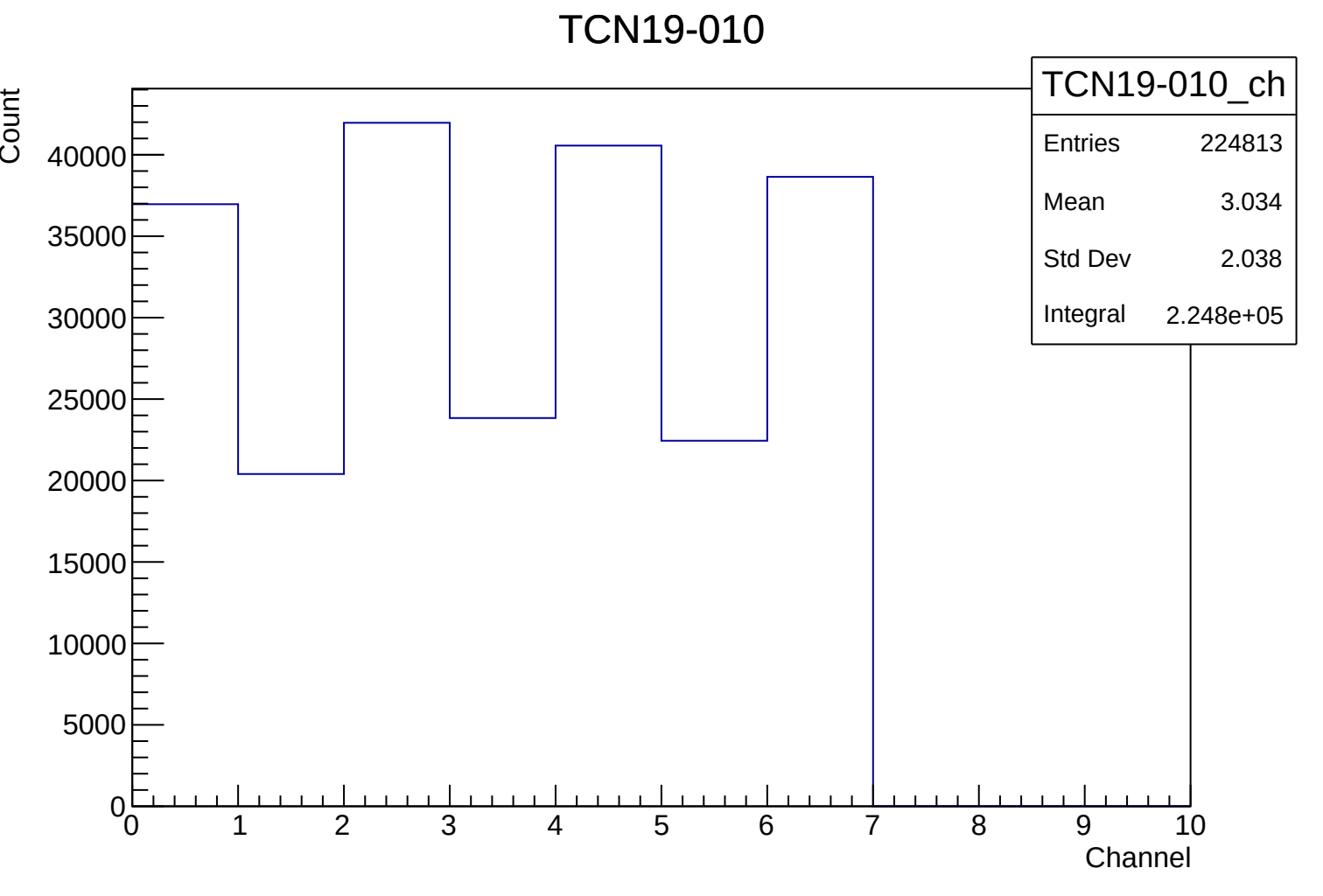

Graph
Vapor pressure (torr)
0.078
0.076
0.074
0.072
0.07
0.068
0.066
0.064
0.062
0.06
0.058
Temperature (K)
0.955
0.95
0.945
0.94
0.935
0.93
0
2
4
6
8
10
12
14
16
Cycle


χ^2 / ndf 218.1 / 16
Prob 1.717e−37
p0 1.436 ± 0.04994
li6 background rate (1/s)
Cycle
0
2
4
6
8
10
12
14
16
1
2
3
4
5


li6 background rate during irradiation (1/(s μA))
Cycle
χ² / ndf 148.2 / 16
Prob 1.745e–23
p0 3.46 ± 0.08032
5.5
5
4.5
4
3.5
3
2.5
2
1.5
0
2
4
6
8
10
12
14
16


χ^2 / ndf 11.65 / 16
Prob 0.7675
p0 0.05229 ± 0.01121
he3 background rate (1/s)
Cycle
0
0.2
0.4
0.6
0.8
1
0
2
4
6
8
10
12
14
16


χ² / ndf 22.75 / 16
Prob 0.1205
p0 0.09315 ± 0.01185
he3 background rate during irradiation (1/(s μA))
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
2
4
6
8
10
12
14
16
Cycle


TCN19-010
TCN19-010_ch
Entries 224813
Mean 3.034
Std Dev 2.038
Integral 2.248e+05
Count
40000
35000
30000
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10
Channel