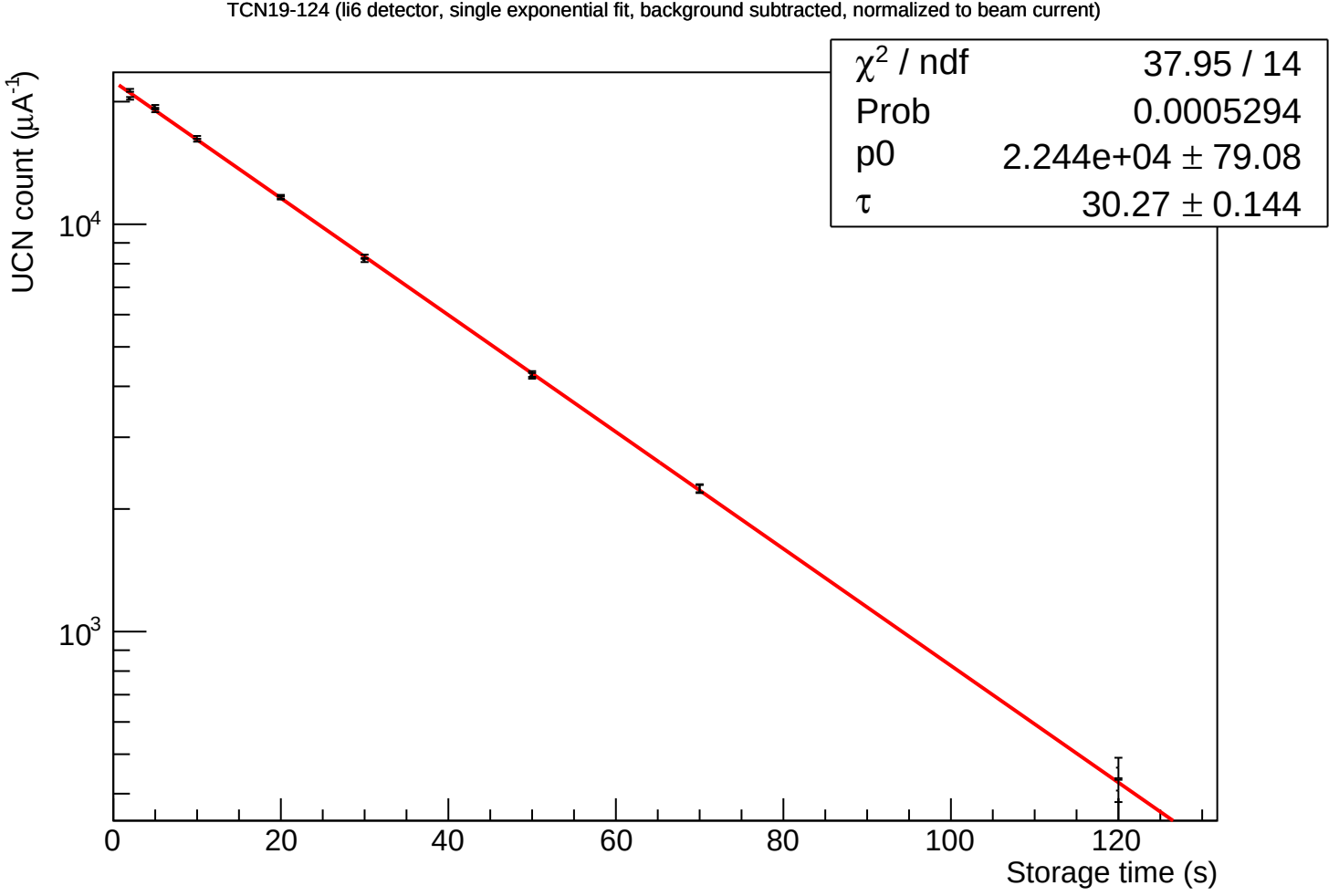
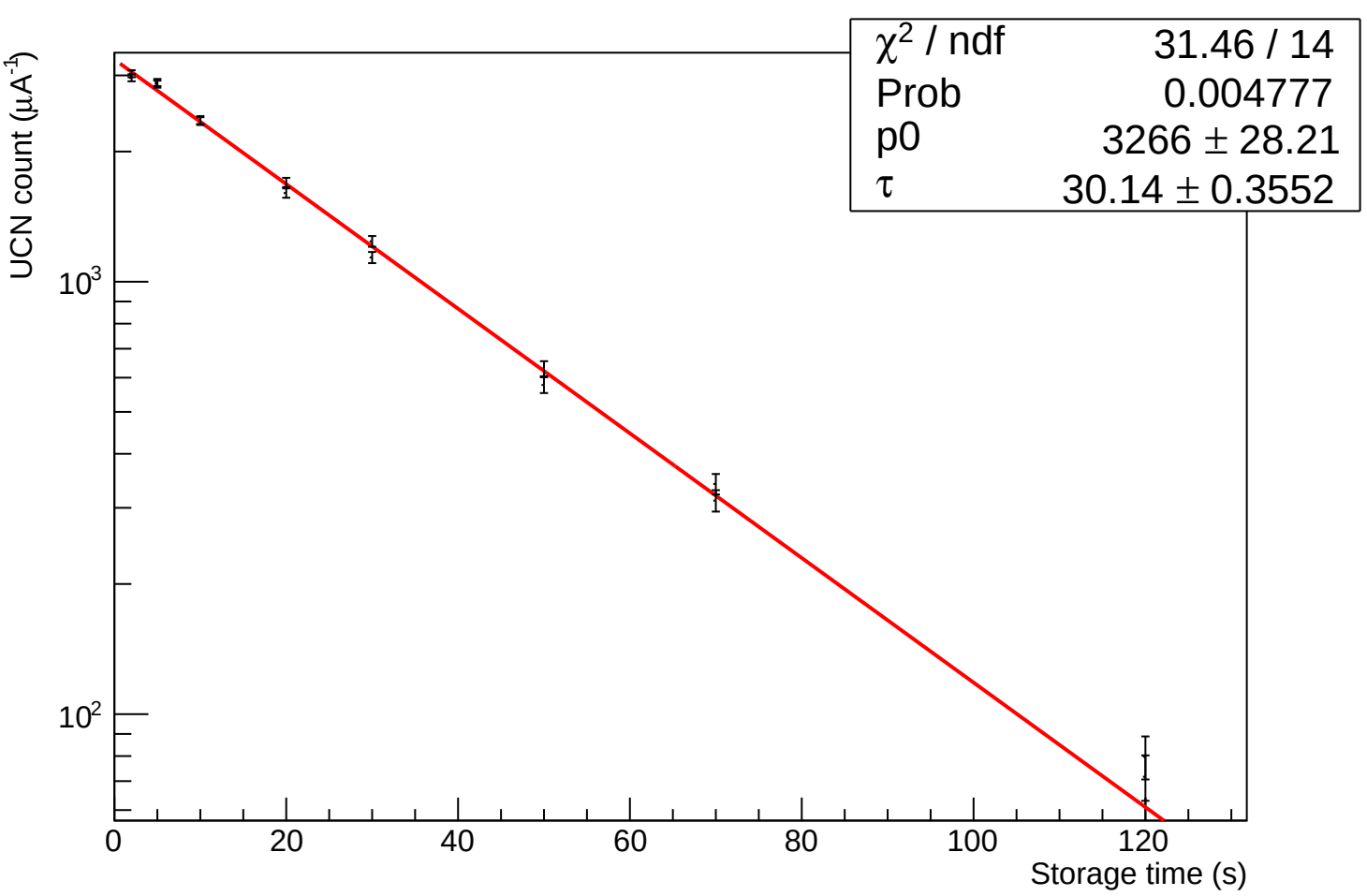
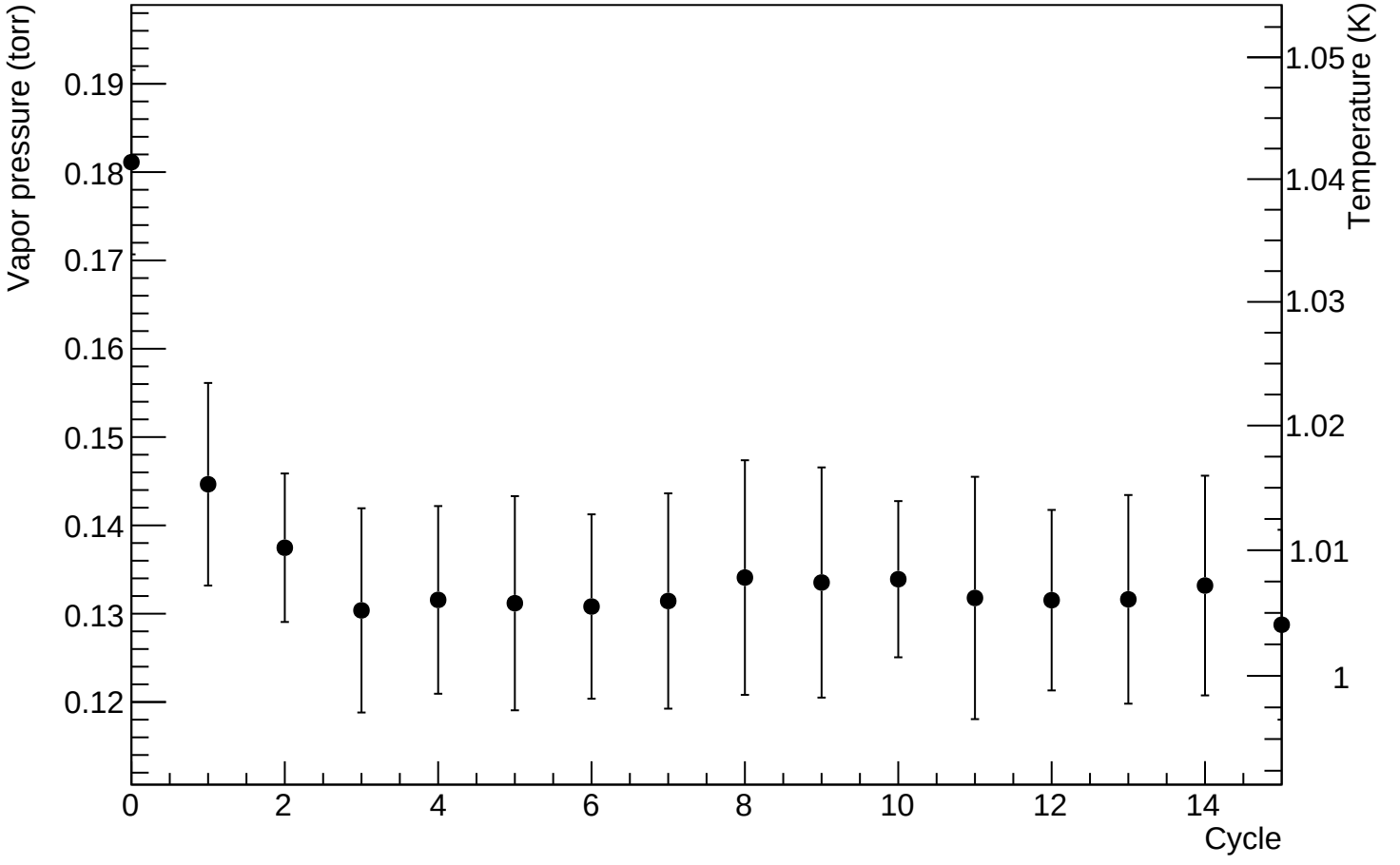
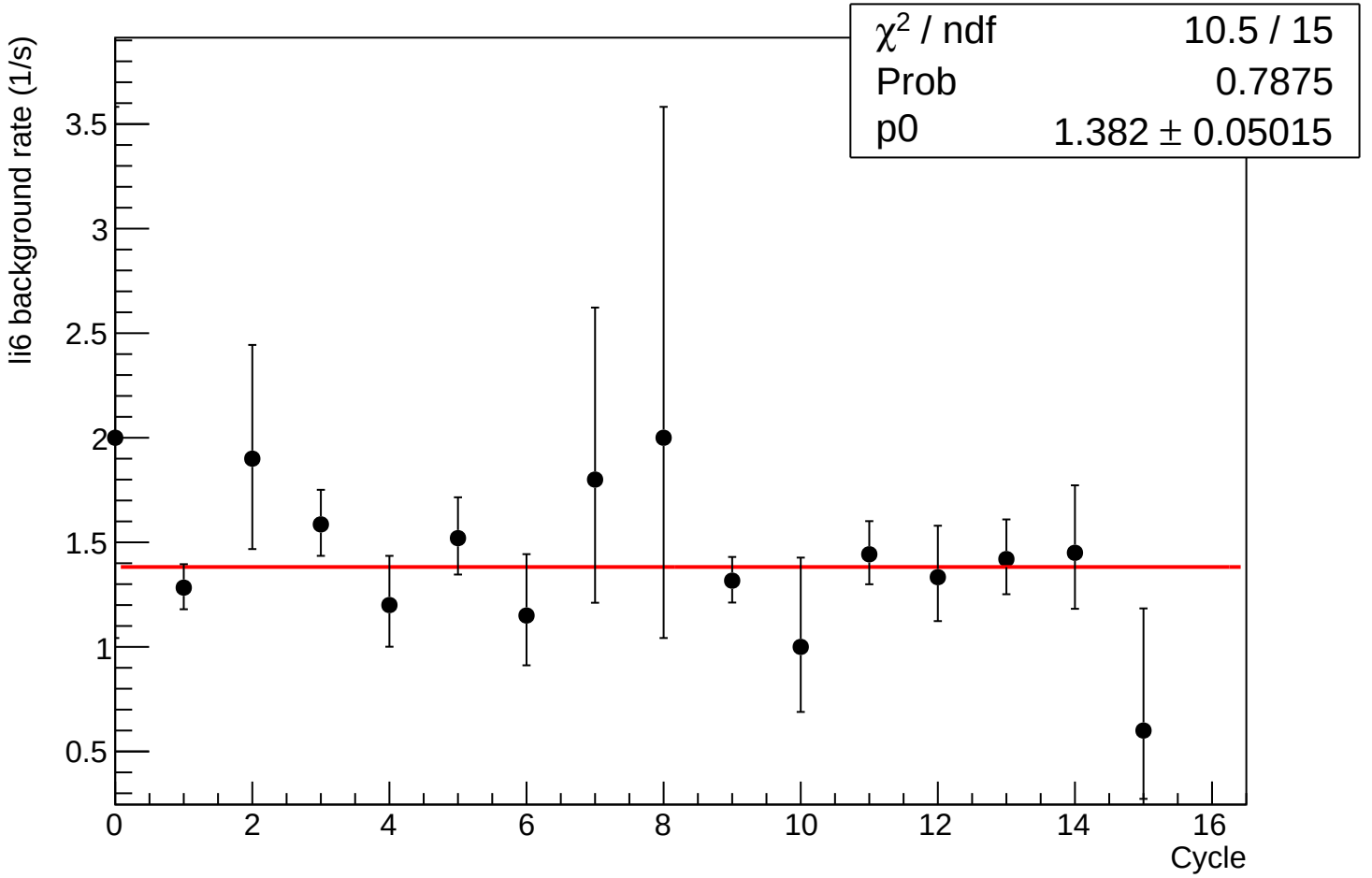
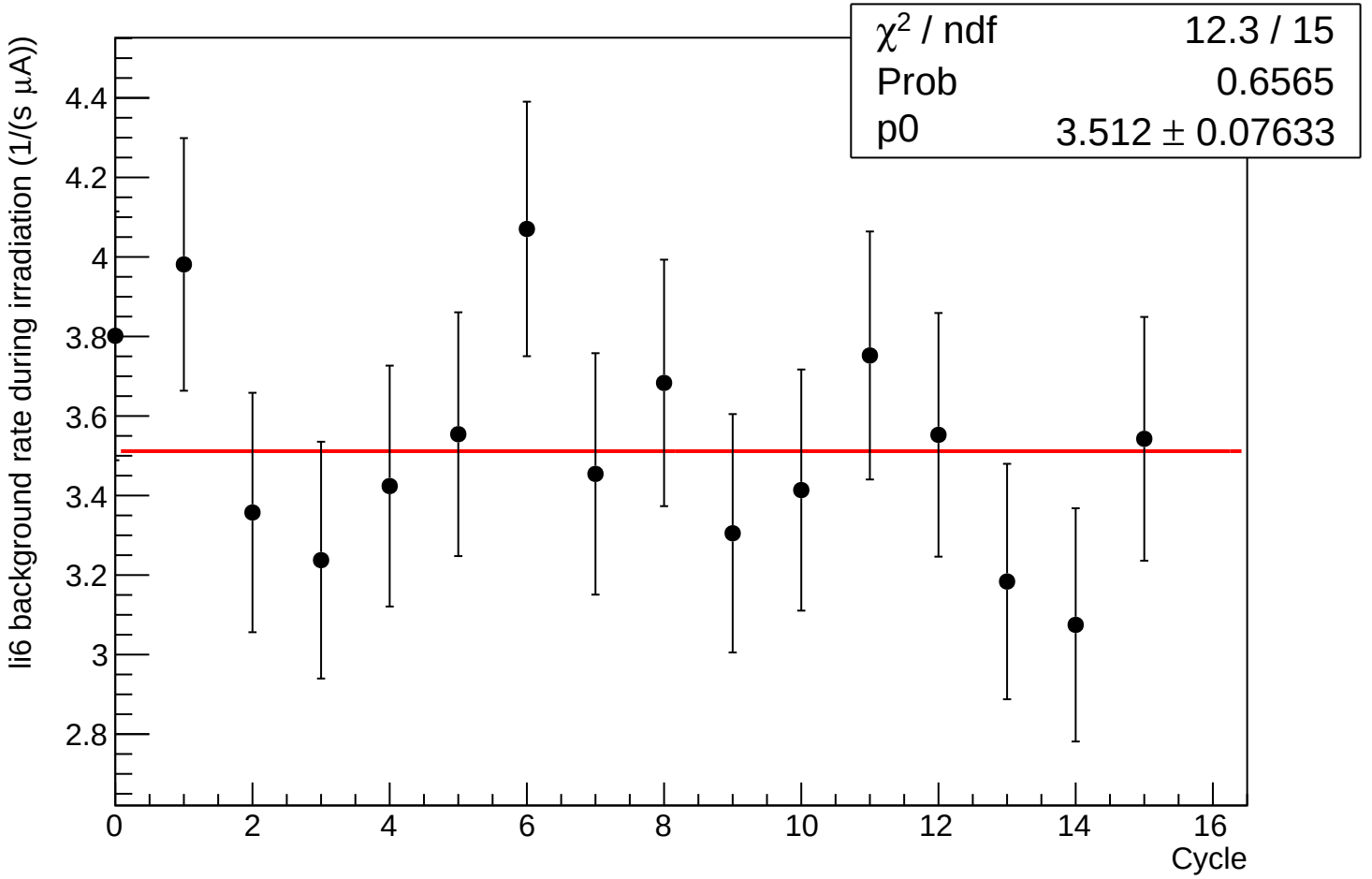
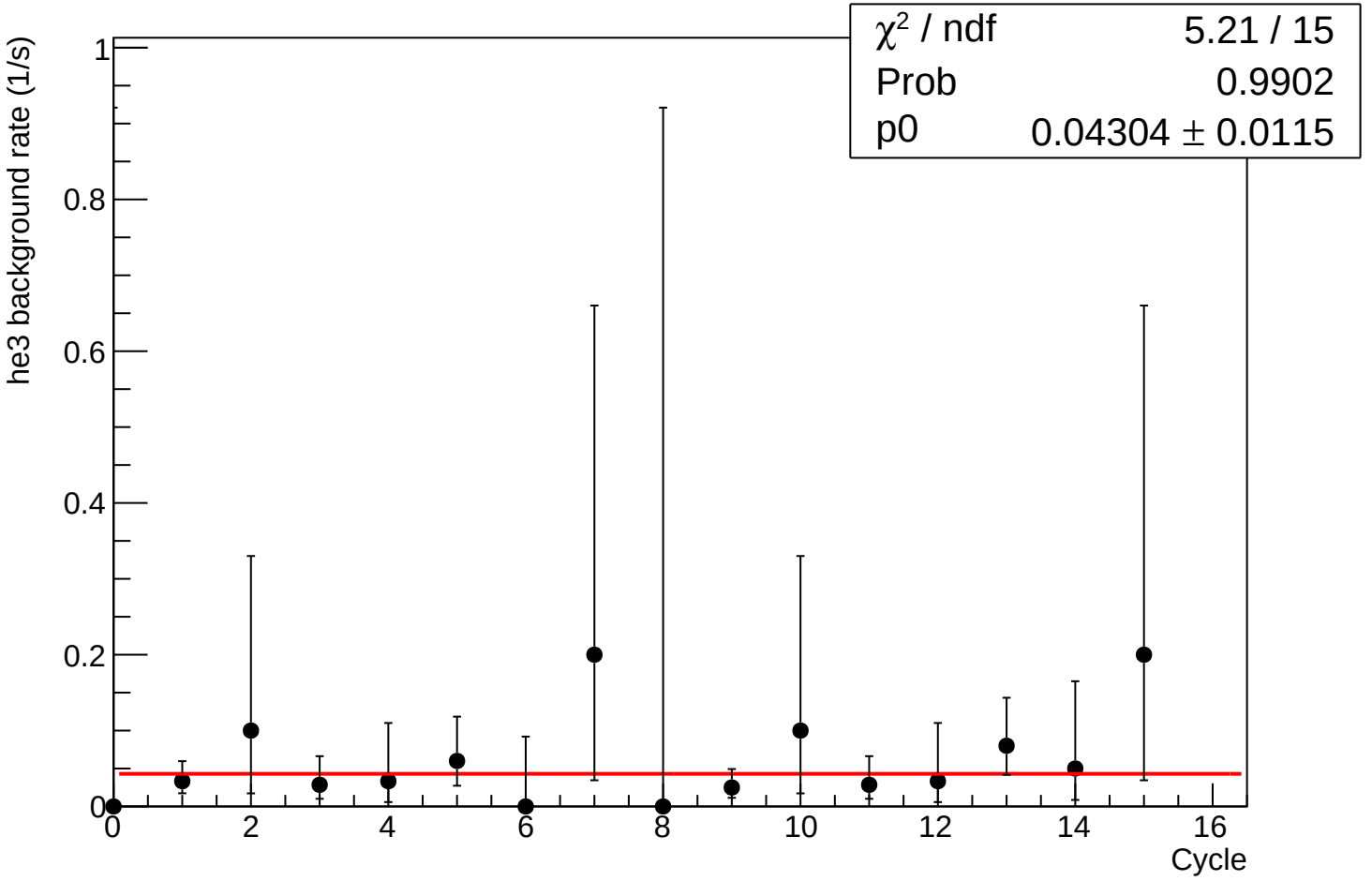

TCN19-124 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 37.95 / 14
Prob 0.0005294
p0 2.244e+04 ± 79.08
τ 30.27 ± 0.144
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

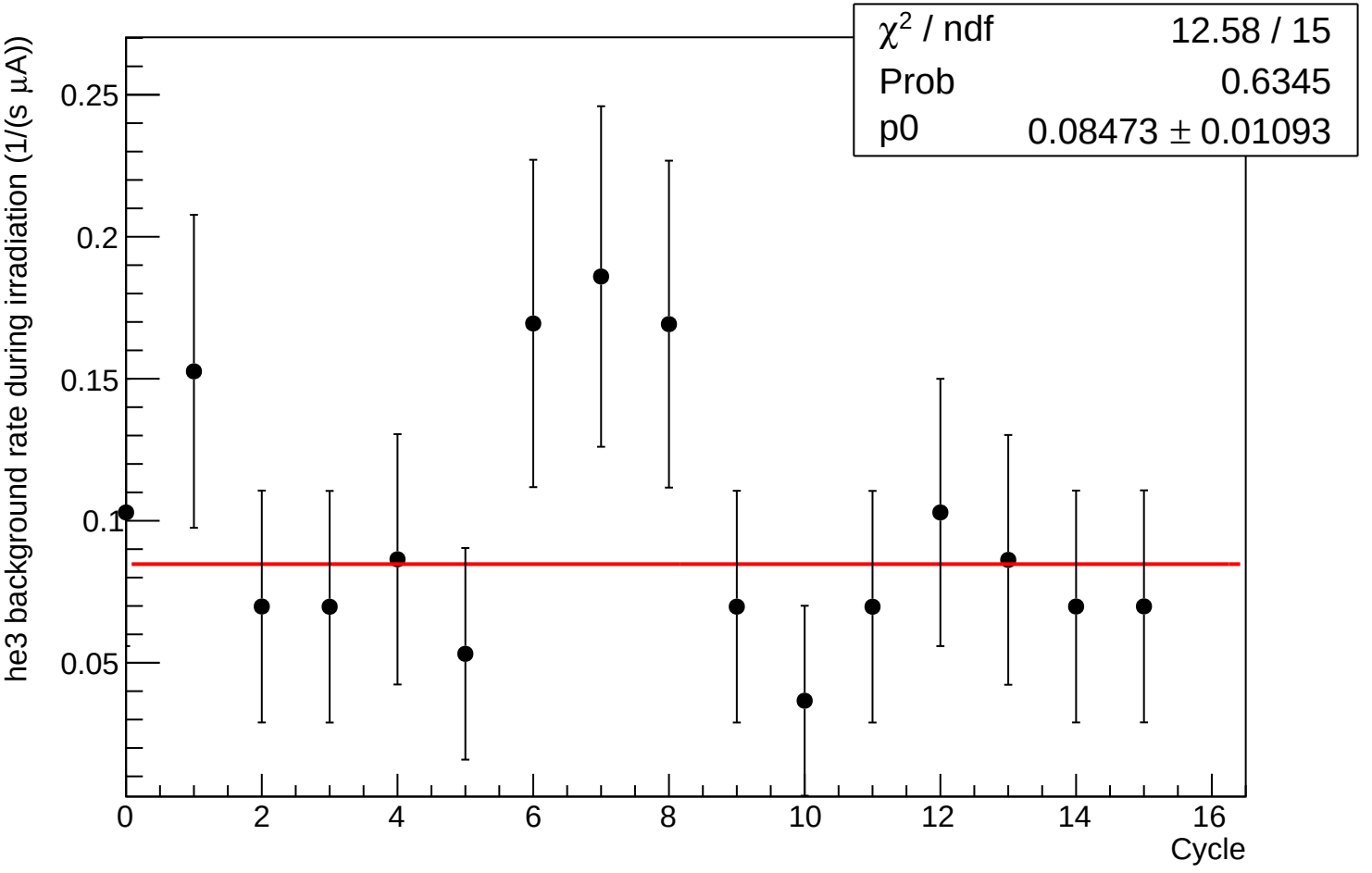

TCN19-124 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ2 / ndf 31.46 / 14
Prob 0.004777
p0 3266 ± 28.21
τ 30.14 ± 0.3552
UCN count (μA-1)
10^3
10^2
0
20
40
60
80
100
120
Storage time (s)

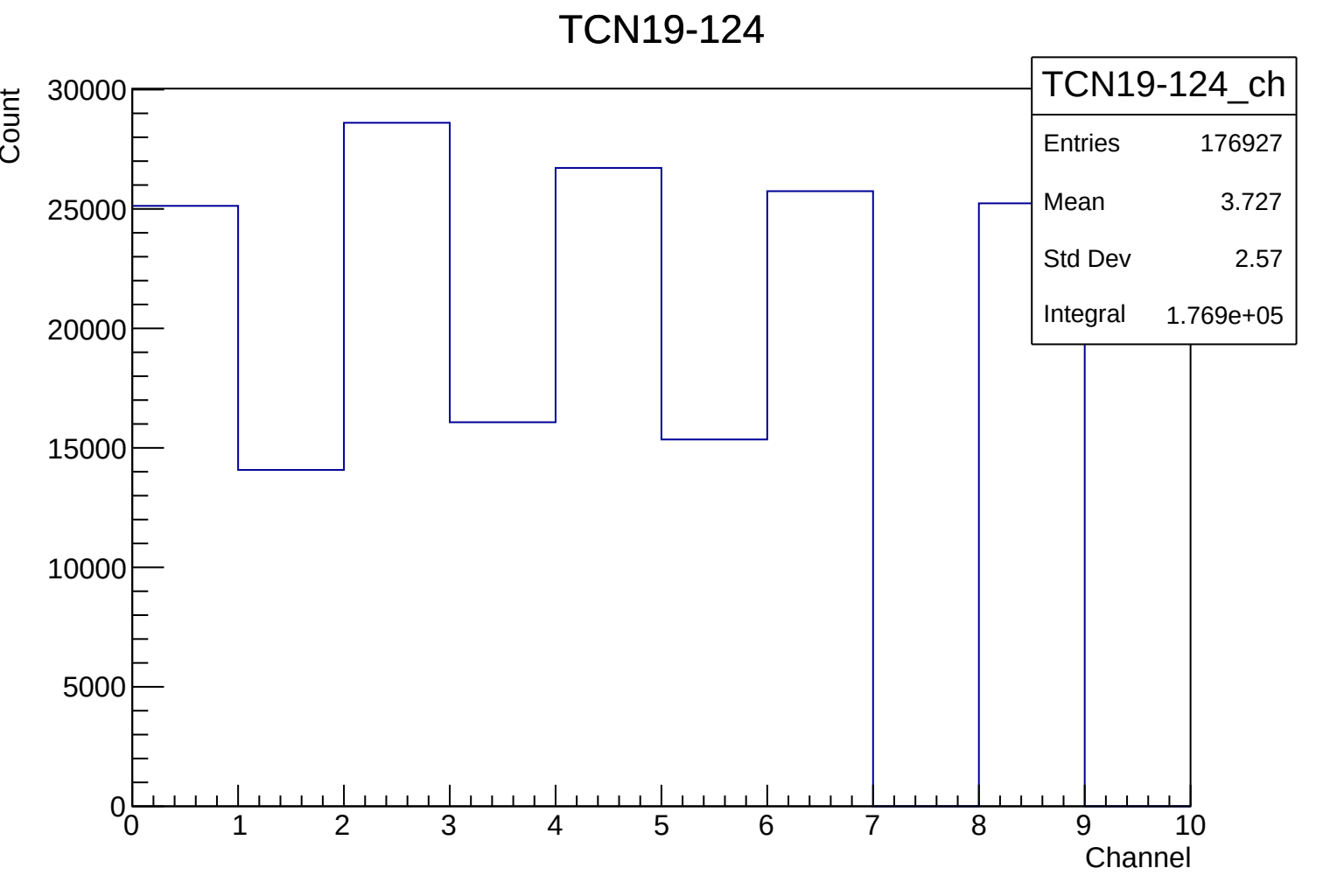

Graph
Vapor pressure (torr)
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
Temperature (K)
1.05
1.04
1.03
1.02
1.01
1
0
2
4
6
8
10
12
14
Cycle


χ^2 / ndf 10.5 / 15
Prob 0.7875
p0 1.382 ± 0.05015
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


χ² / ndf 12.3 / 15
Prob 0.6565
p0 3.512 ± 0.07633
li6 background rate during irradiation (1/(s μA))
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
0
2
4
6
8
10
12
14
16
Cycle


χ² / ndf 5.21 / 15
Prob 0.9902
p0 0.04304 ± 0.0115
he3 background rate (1/s)
0
0.2
0.4
0.6
0.8
1
0
2
4
6
8
10
12
14
16
Cycle


χ² / ndf 12.58 / 15
Prob 0.6345
p0 0.08473 ± 0.01093
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


TCN19-124
TCN19-124_ch
Entries 176927
Mean 3.727
Std Dev 2.57
Integral 1.769e+05
Count
30000
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10
Channel