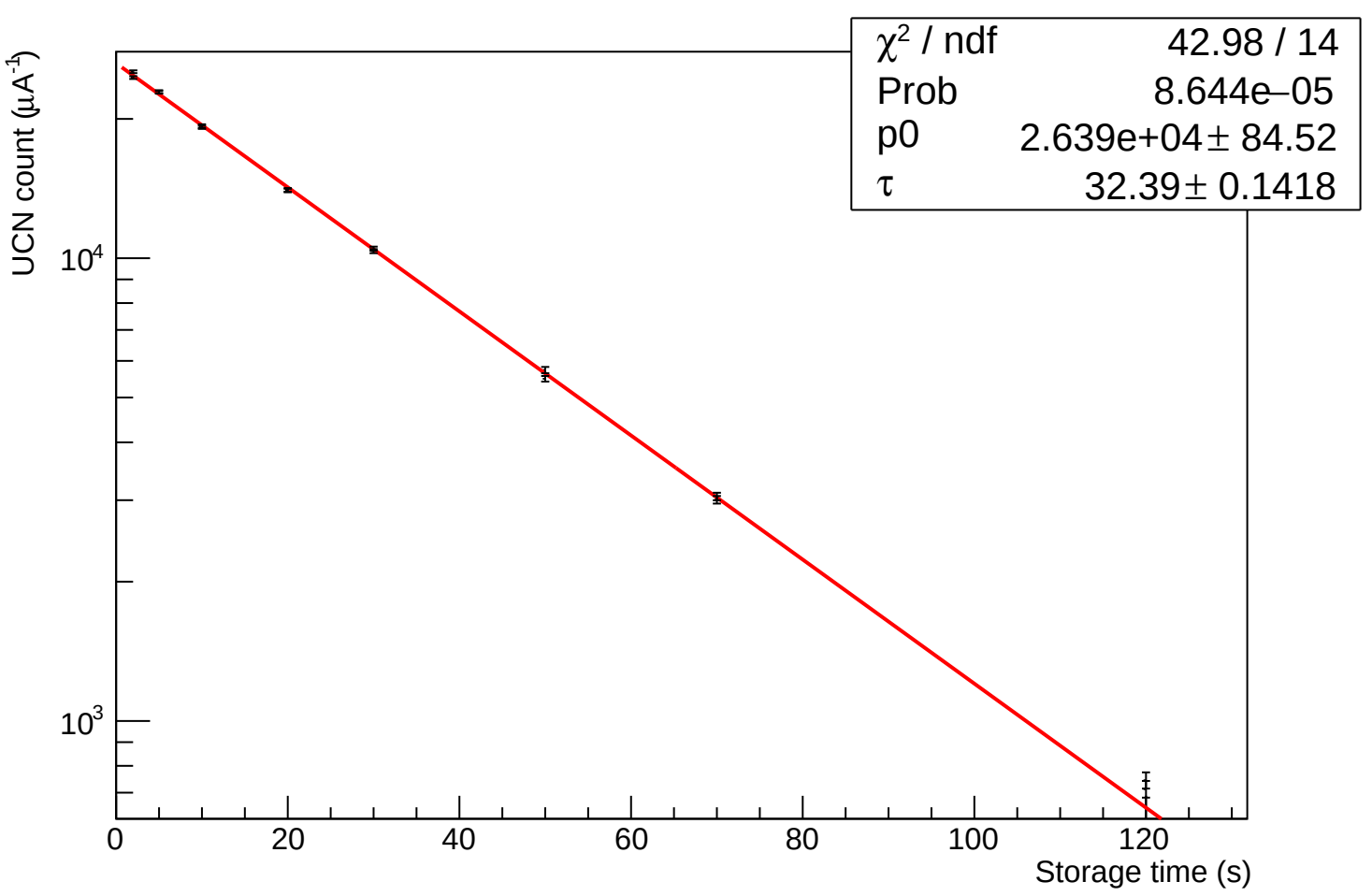
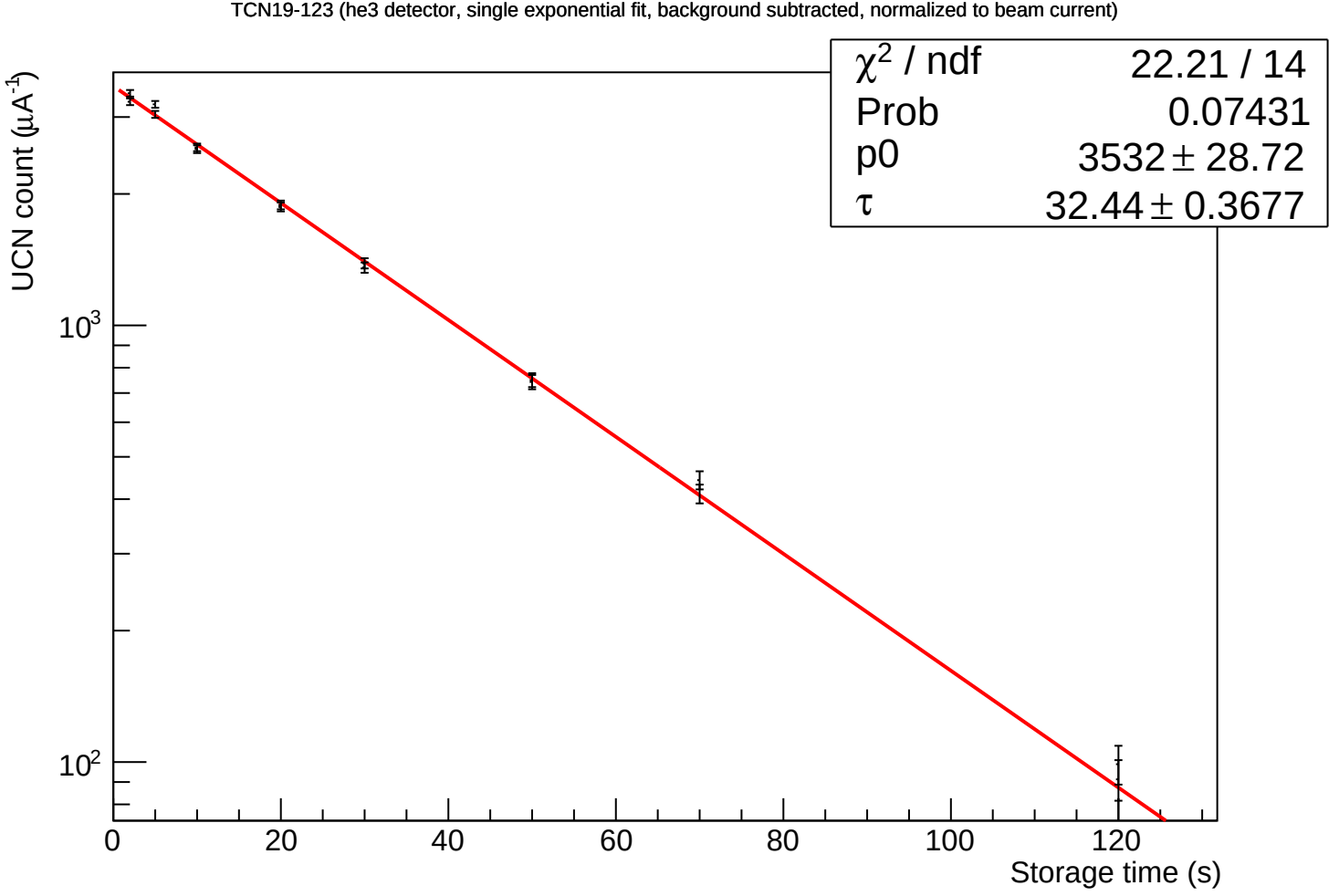
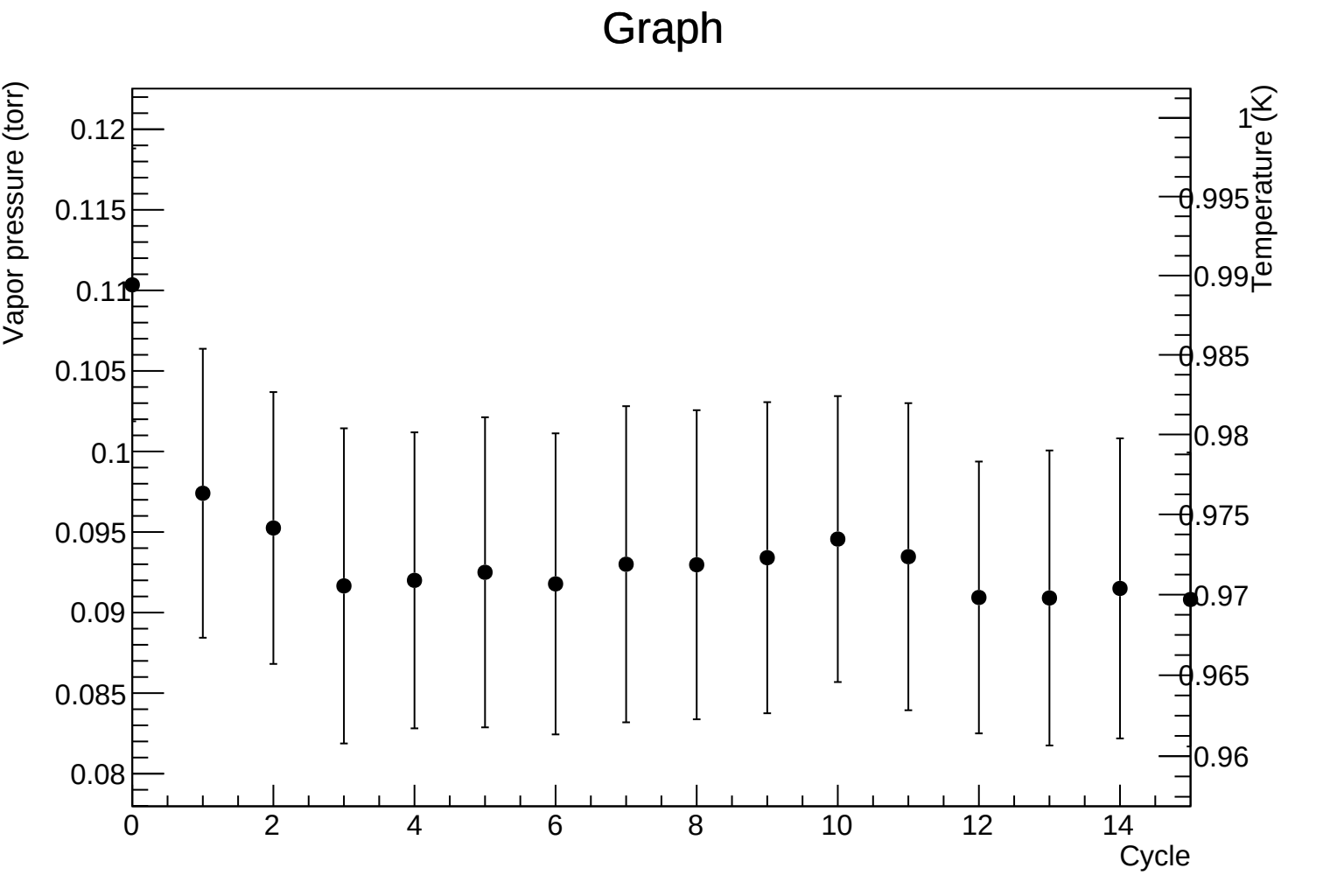
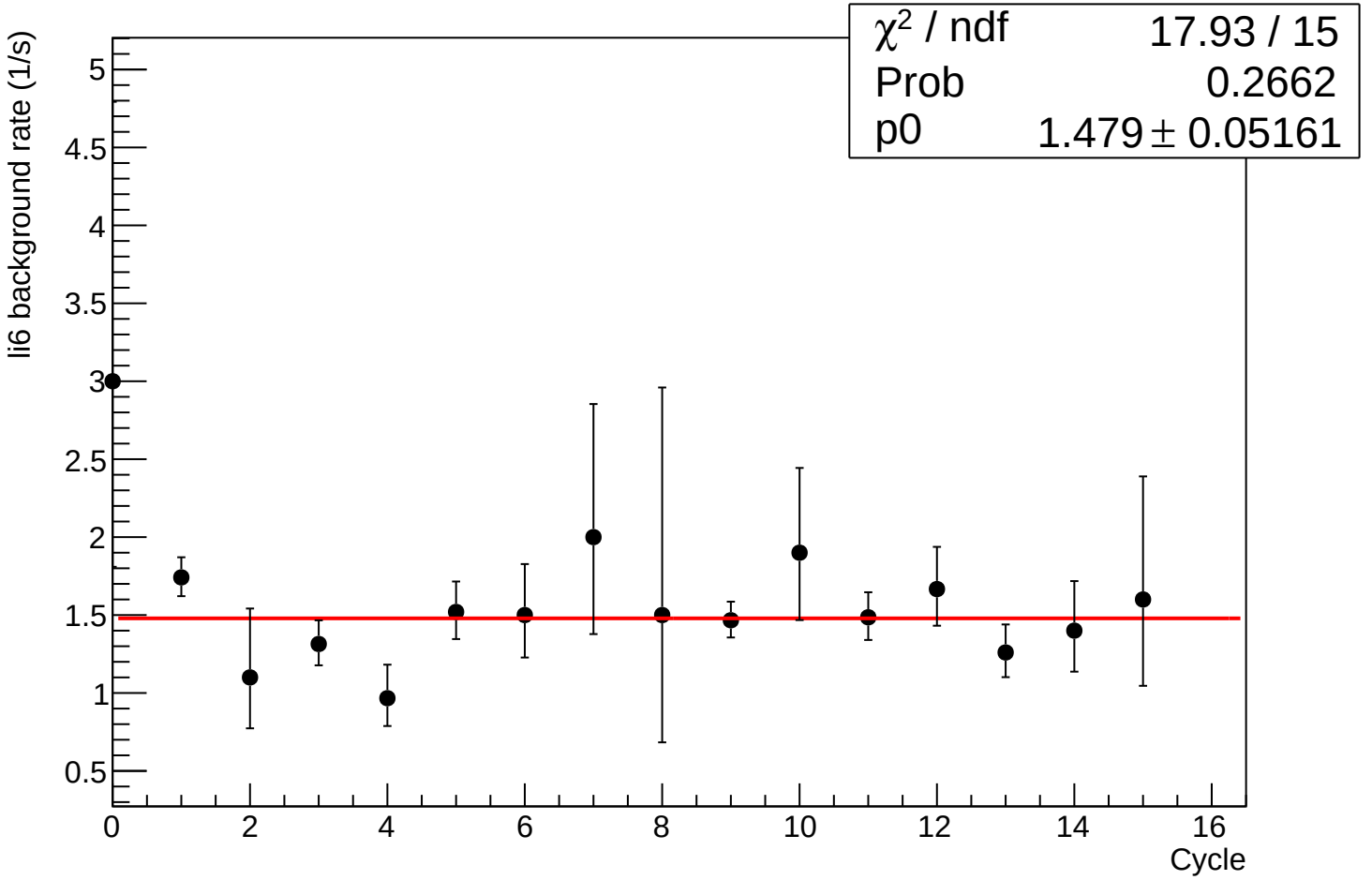
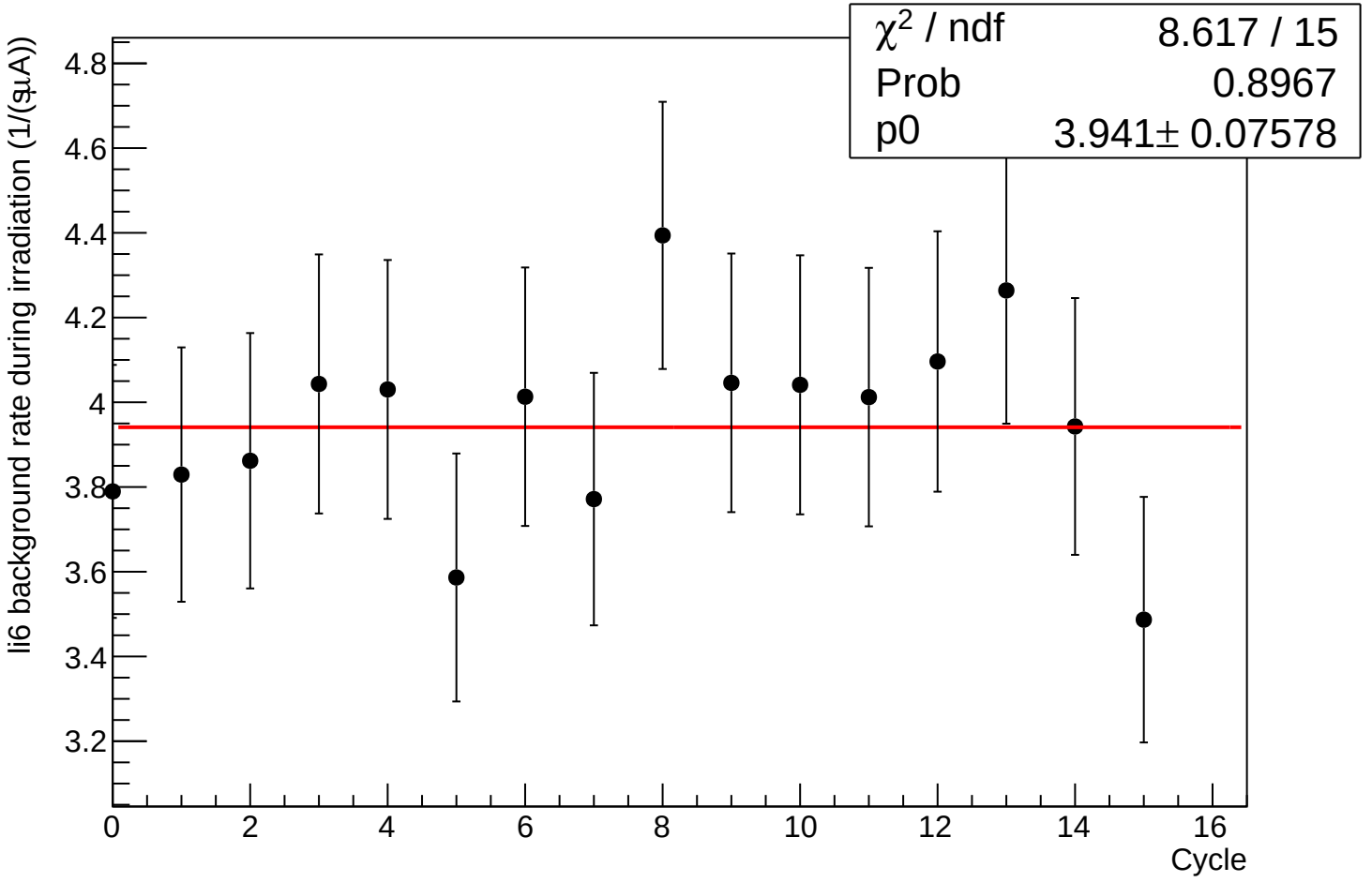
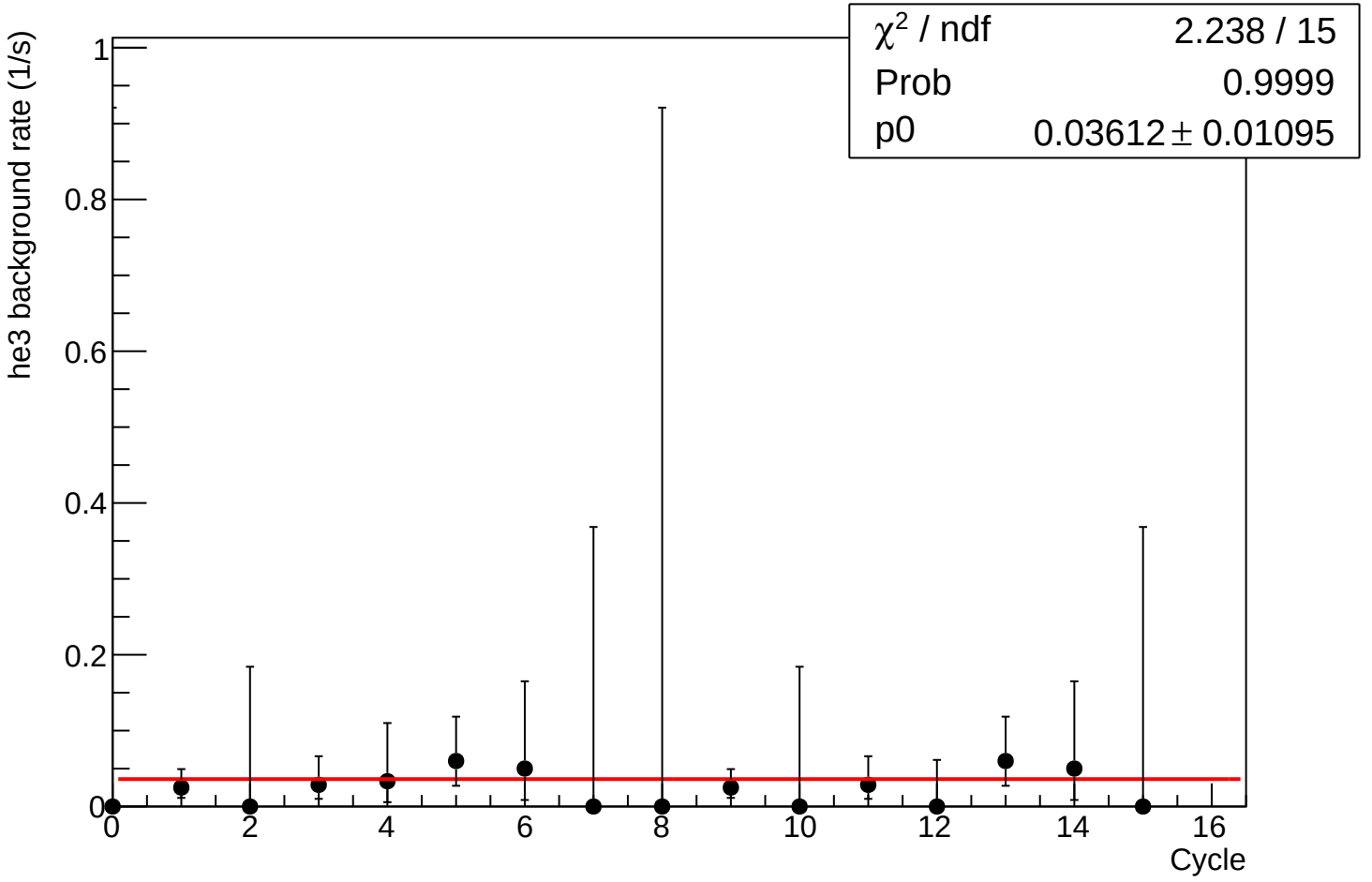

TCN19-123 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 42.98 / 14
Prob 8.644e–05
p0 2.639e+04 ± 84.52
τ 32.39 ± 0.1418
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

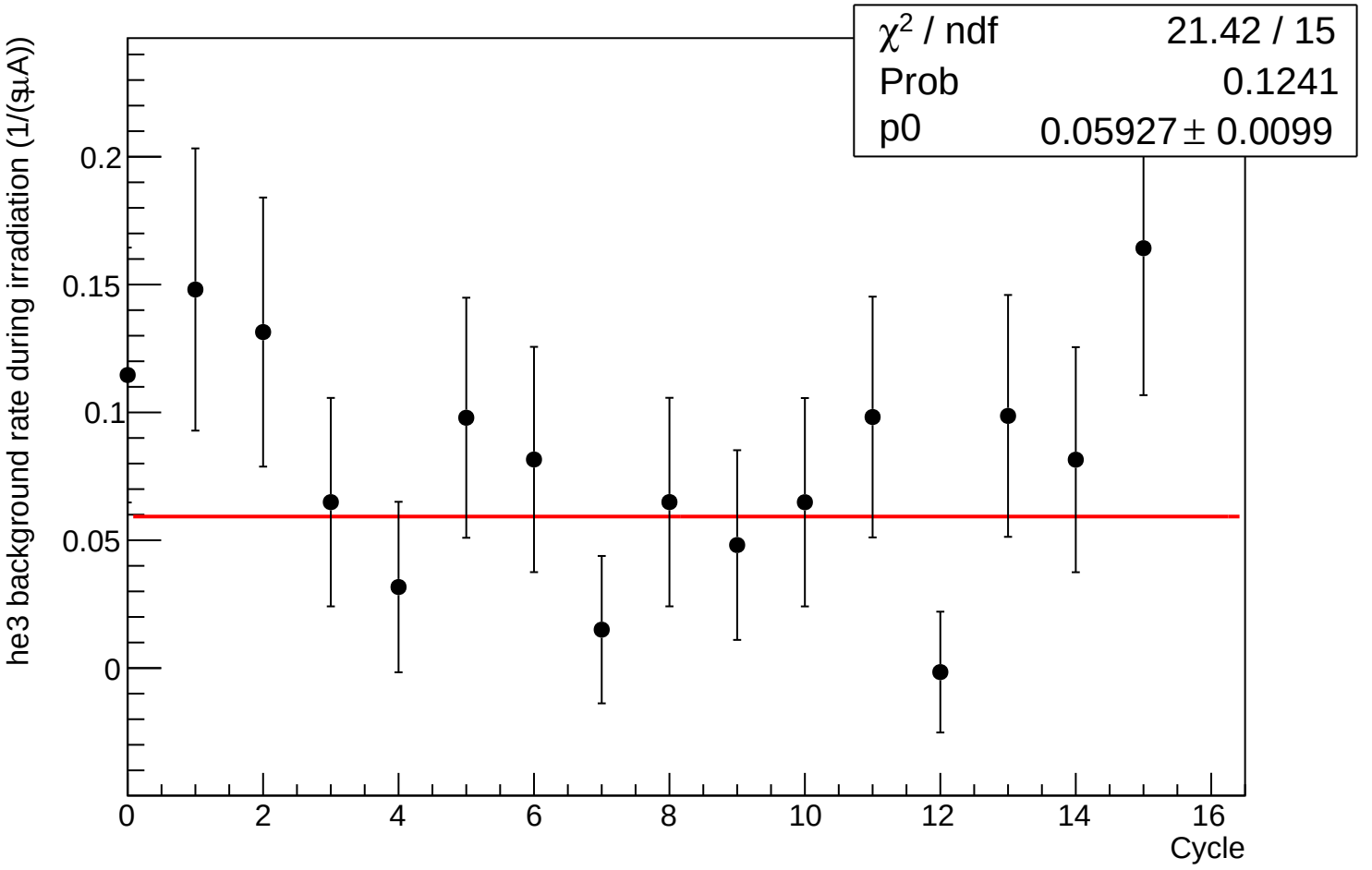

TCN19-123 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 22.21 / 14
Prob 0.07431
p0 3532 ± 28.72
τ 32.44 ± 0.3677
UCN count (μA⁻¹)
10³
10²
0
20
40
60
80
100
120
Storage time (s)

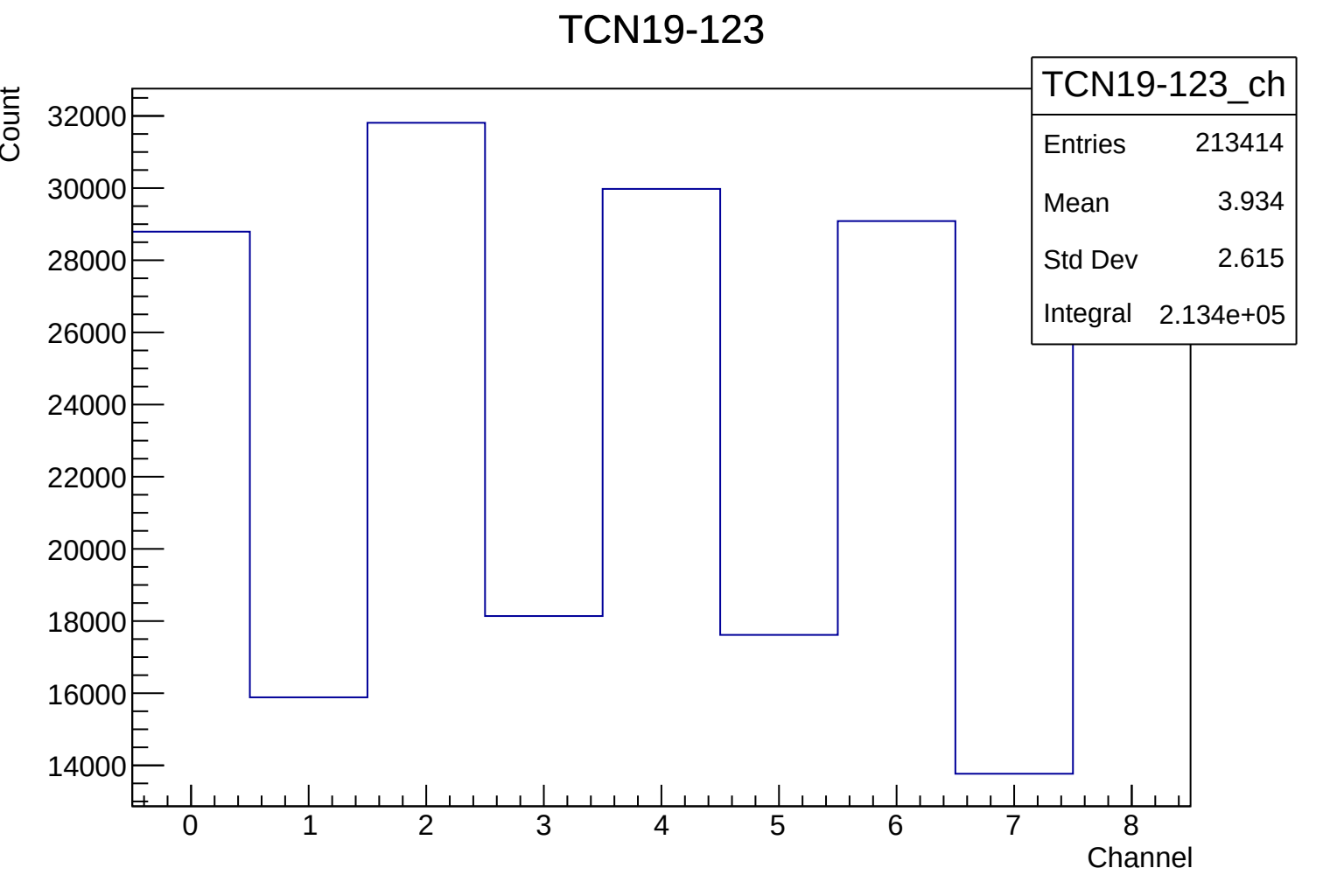

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08
1
0.995
0.99
0.985
0.98
0.975
0.97
0.965
0.96
0
2
4
6
8
10
12
14


li6 background rate (1/s)
Cycle
χ² / ndf 17.93 / 15
Prob 0.2662
p0 1.479 ± 0.05161
0
2
4
6
8
10
12
14
16
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5


χ2 / ndf 8.617 / 15
Prob 0.8967
p0 3.941± 0.07578
li6 background rate during irradiation (1/(μA))
Cycle
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
0
2
4
6
8
10
12
14
16


χ^2 / ndf 2.238 / 15
Prob 0.9999
p0 0.03612 ± 0.01095
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 21.42 / 15
Prob 0.1241
p0 0.05927 ± 0.0099
he3 background rate during irradiation (1/(μA))
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
Cycle


TCN19-123
TCN19-123_ch
Entries 213414
Mean 3.934
Std Dev 2.615
Integral 2.134e+05
Count
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
0
1
2
3
4
5
6
7
8
Channel