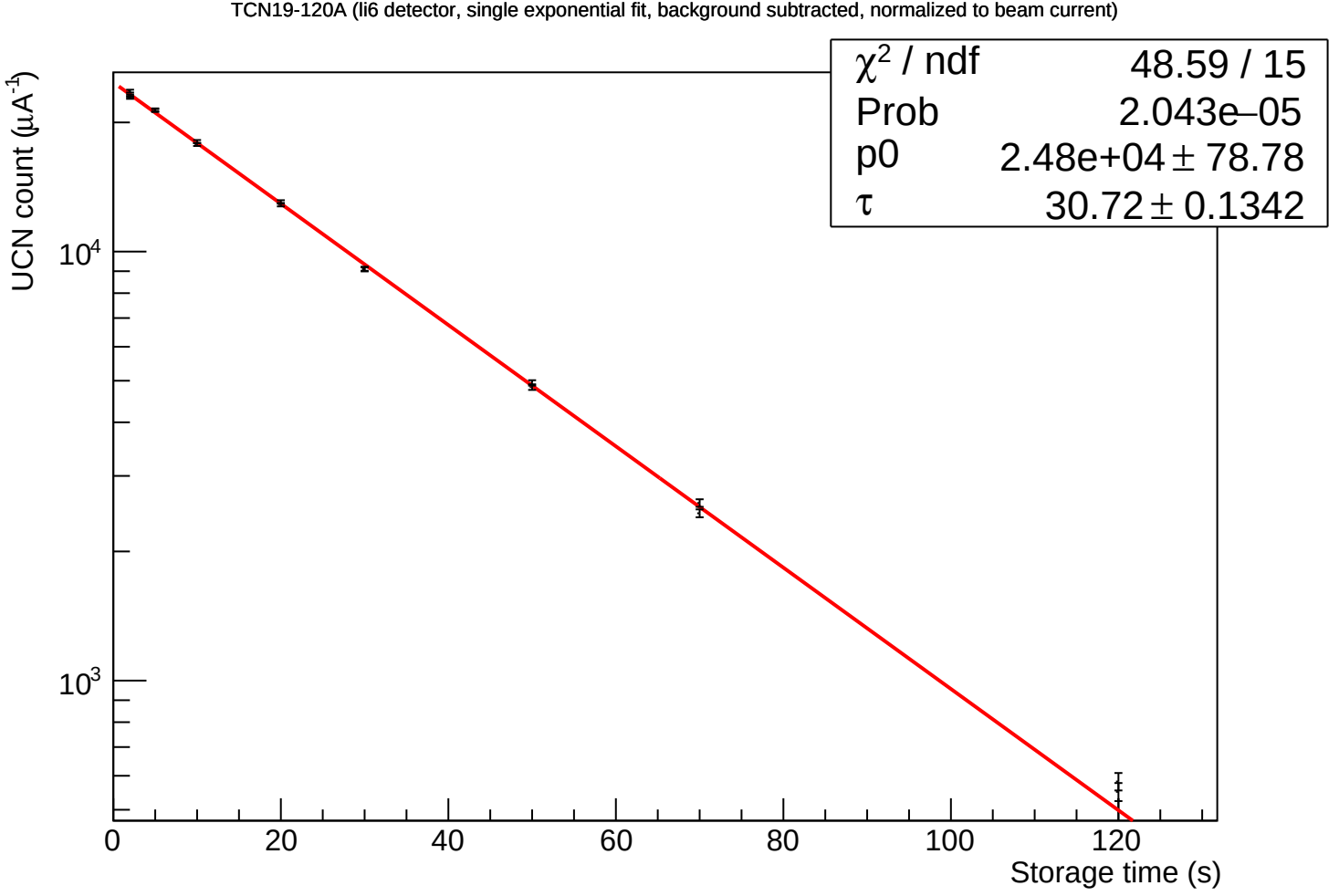
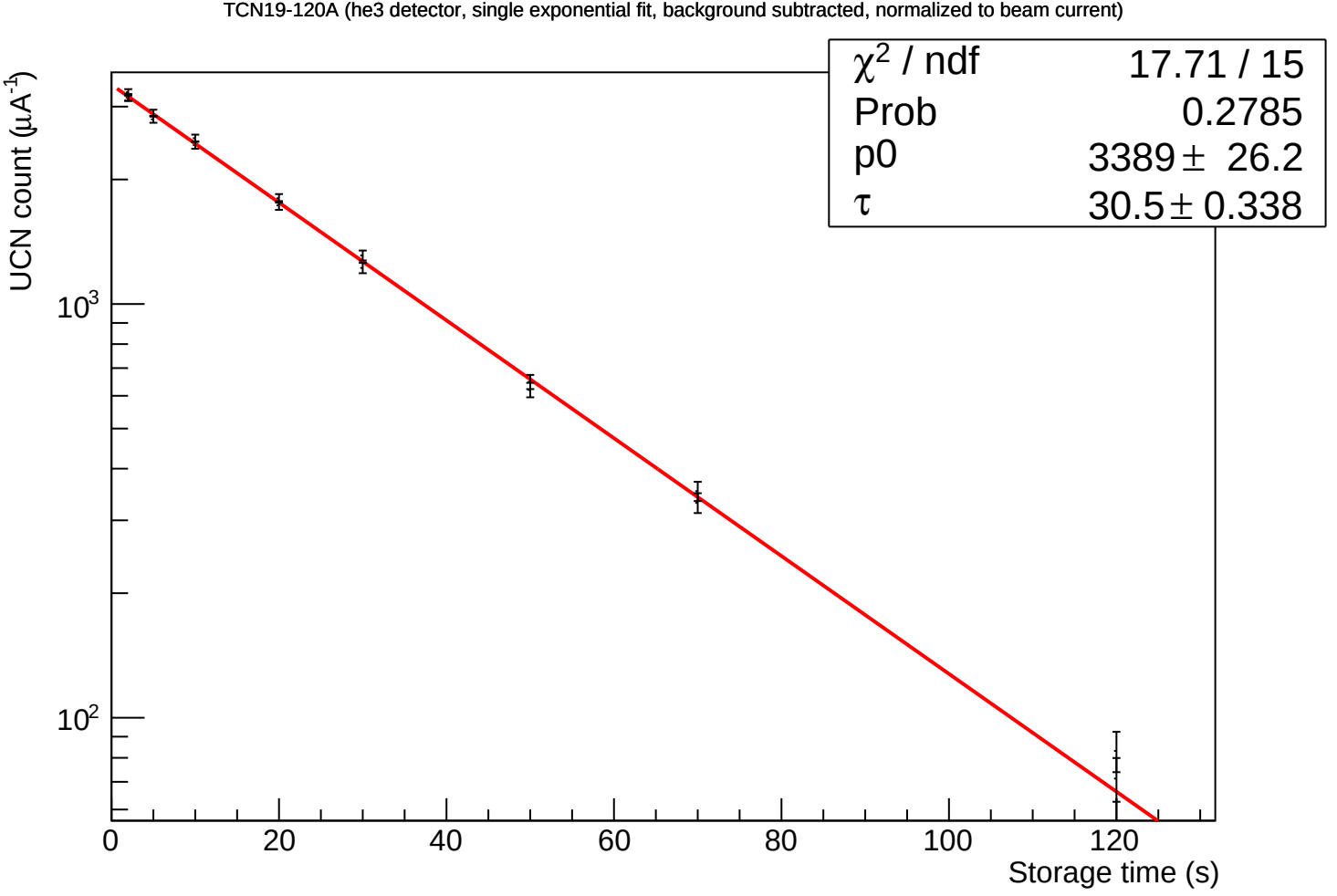
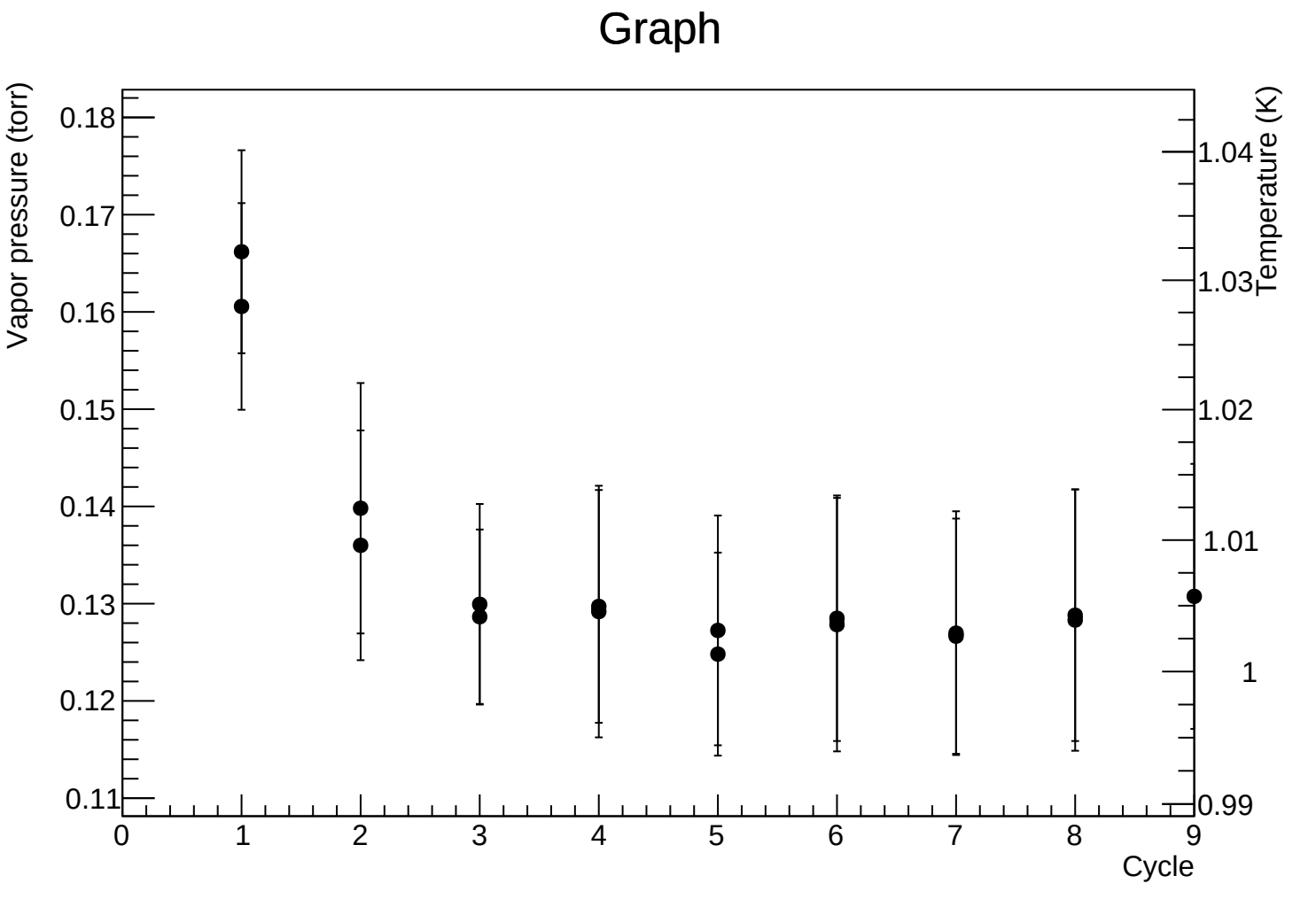
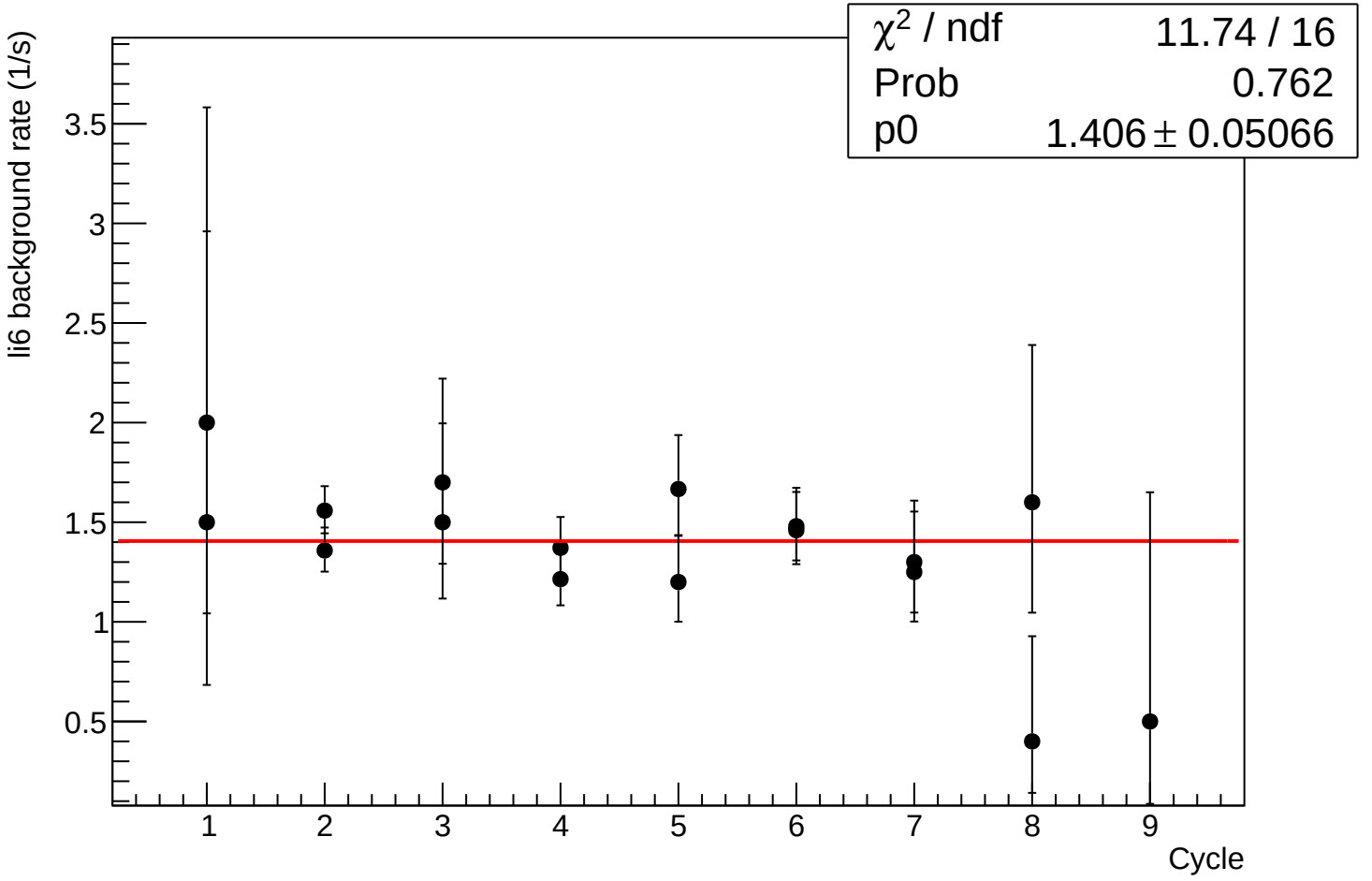
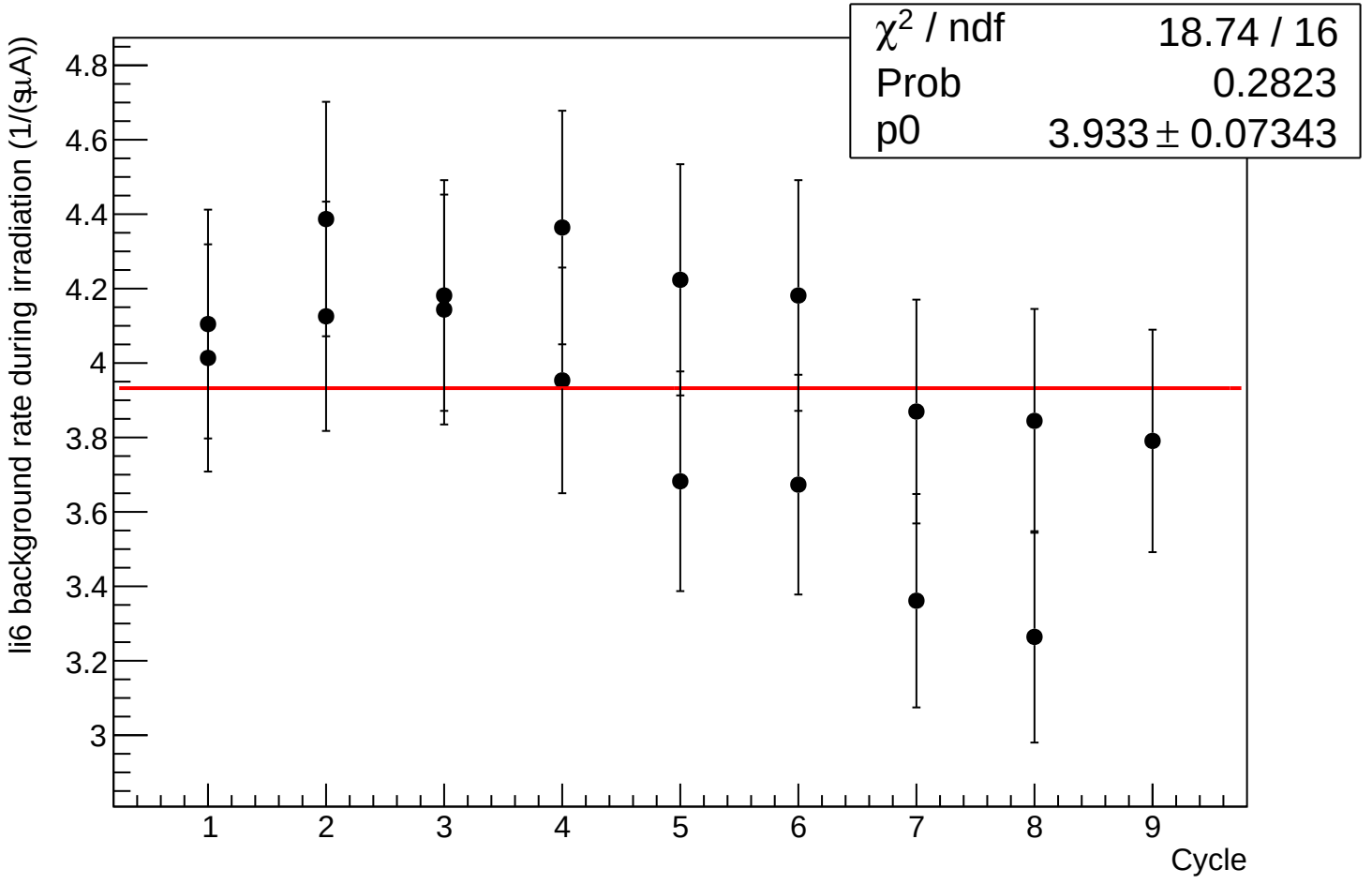
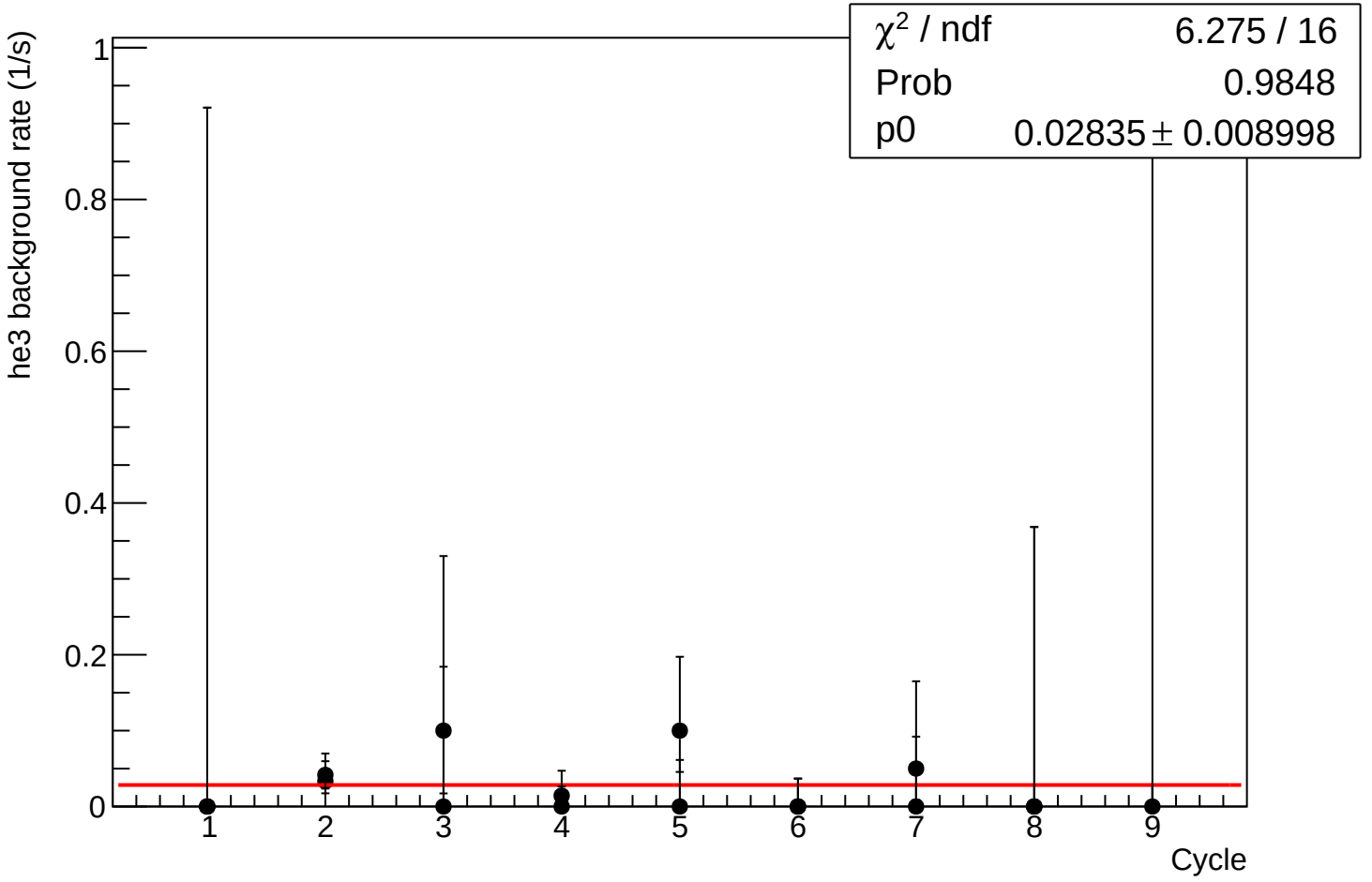

TCN19-120A (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 48.59 / 15
Prob 2.043e–05
p0 2.48e+04 ± 78.78
τ 30.72 ± 0.1342
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

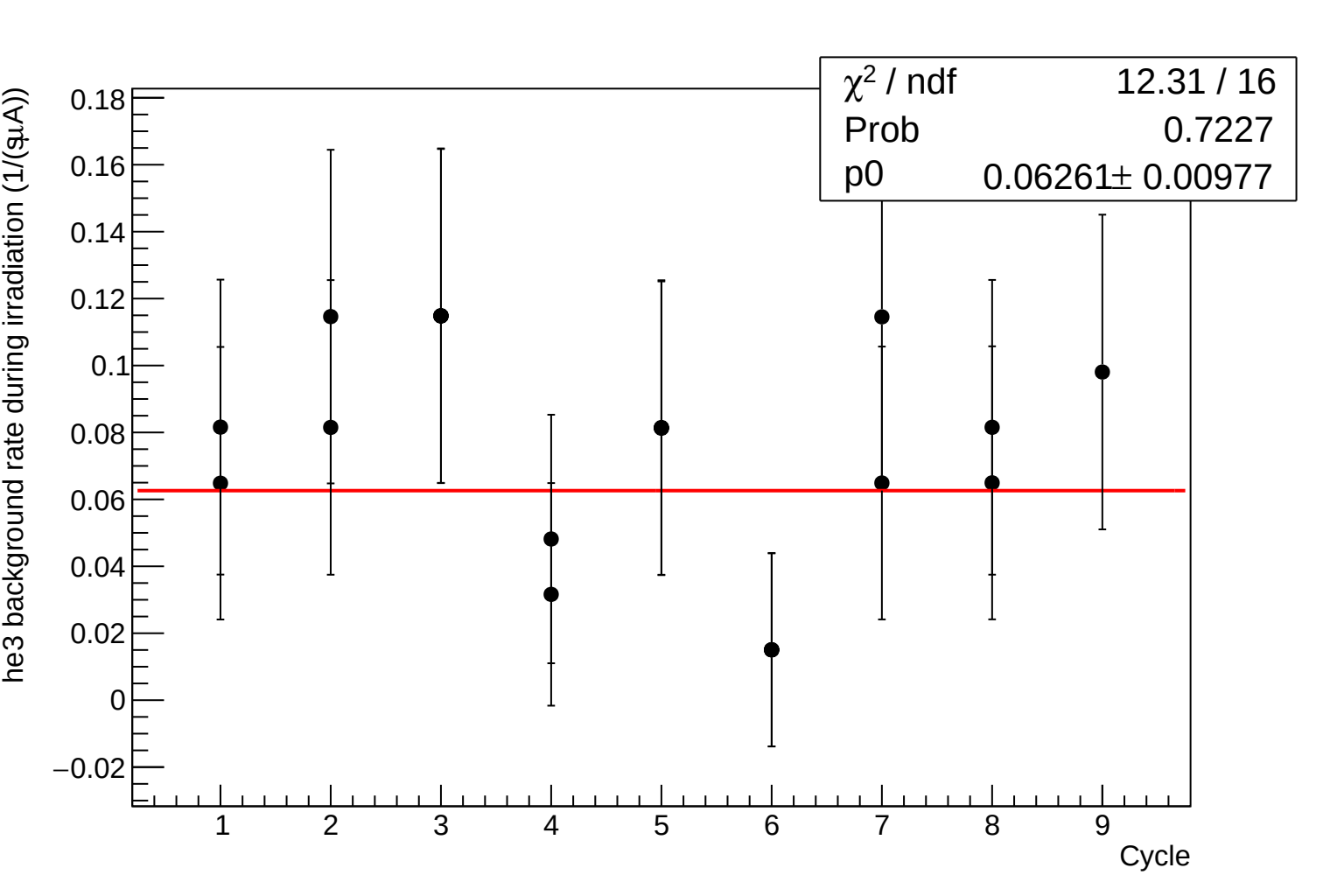

TCN19-120A (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ2 / ndf 17.71 / 15
Prob 0.2785
p0 3389 ± 26.2
τ 30.5 ± 0.338
UCN count (μA-1)
10^3
10^2
0
20
40
60
80
100
120
Storage time (s)

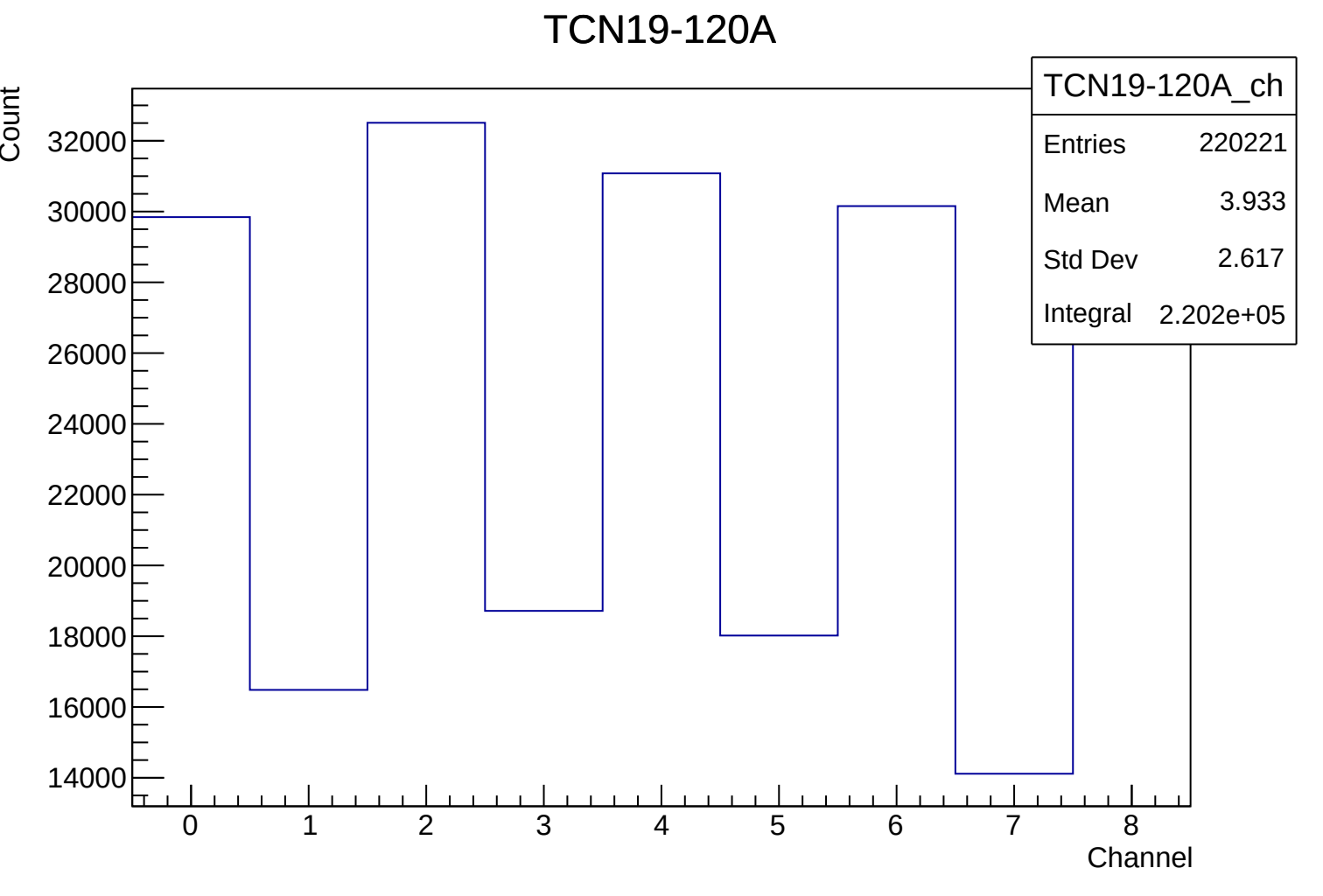

Graph
Vapor pressure (torr)
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
Temperature (K)
1.04
1.03
1.02
1.01
1
0.99
0
1
2
3
4
5
6
7
8
9
Cycle


li6 background rate (1/s)
3.5
3
2.5
2
1.5
1
0.5
1
2
3
4
5
6
7
8
9
Cycle
χ² / ndf 11.74 / 16
Prob 0.762
p0 1.406 ± 0.05066


χ² / ndf 18.74 / 16
Prob 0.2823
p0 3.933 ± 0.07343
li6 background rate during irradiation (1/(μA))
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
1
2
3
4
5
6
7
8
9
Cycle


χ² / ndf 6.275 / 16
Prob 0.9848
p0 0.02835 ± 0.008998
he3 background rate (1/s)
0
0.2
0.4
0.6
0.8
1
1
2
3
4
5
6
7
8
9
Cycle


χ² / ndf 12.31 / 16
Prob 0.7227
p0 0.06261± 0.00977
he3 background rate during irradiation (1/(μA))
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
1
2
3
4
5
6
7
8
9
Cycle


TCN19-120A
TCN19-120A_ch
Entries 220221
Mean 3.933
Std Dev 2.617
Integral 2.202e+05
Count
32000
30000
28000
26000
24000
22000
20000
18000
16000
14000
0
1
2
3
4
5
6
7
8
Channel