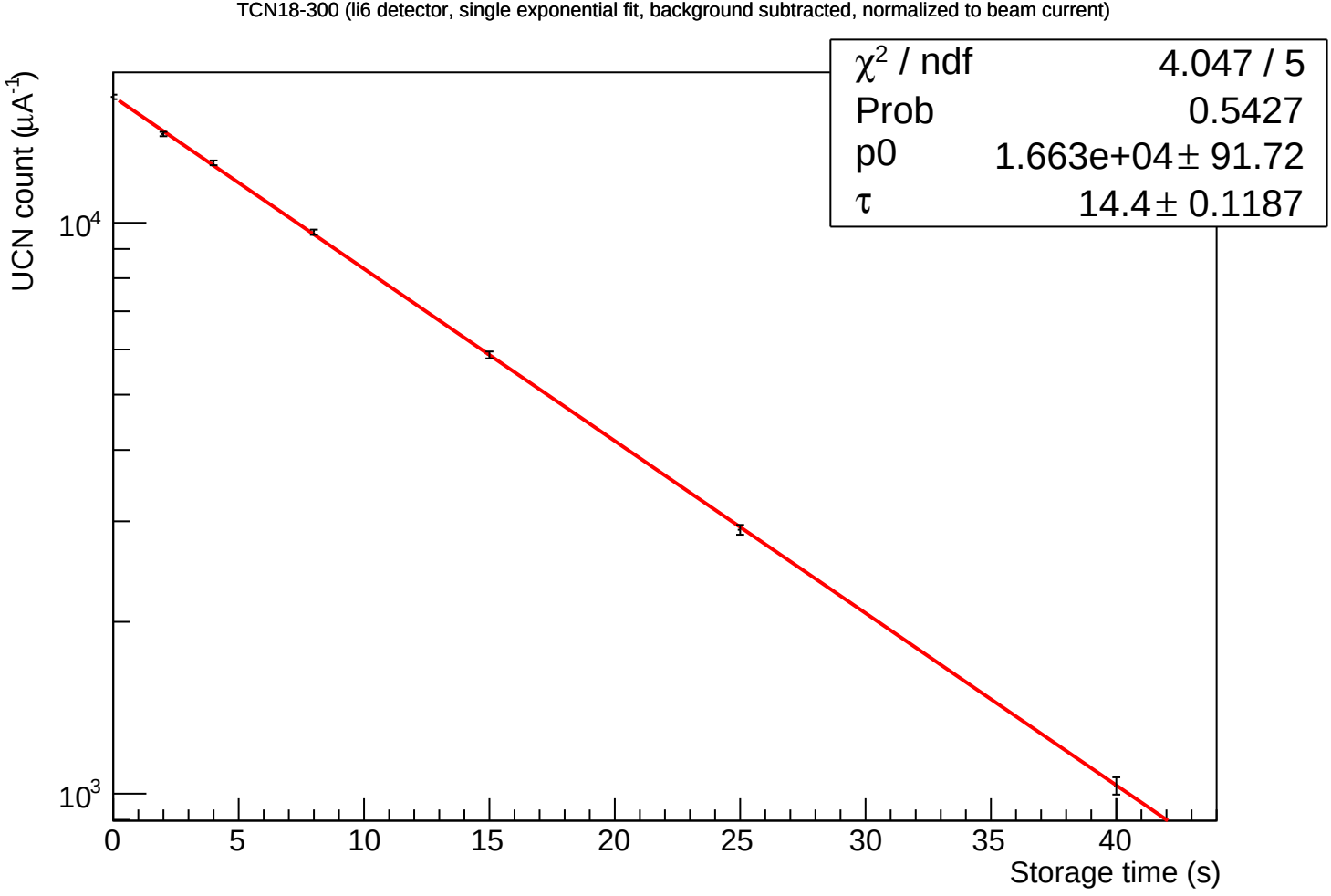
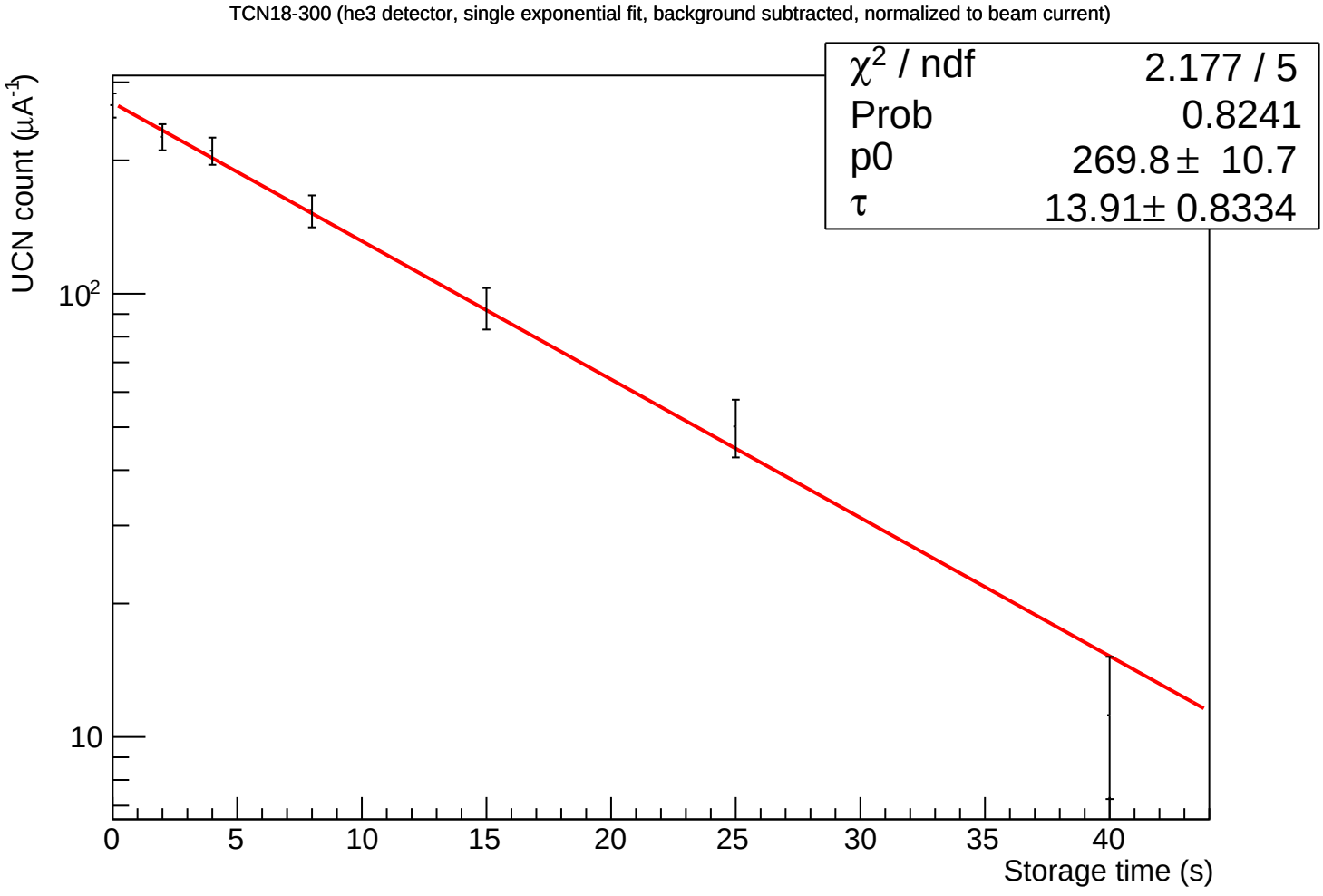
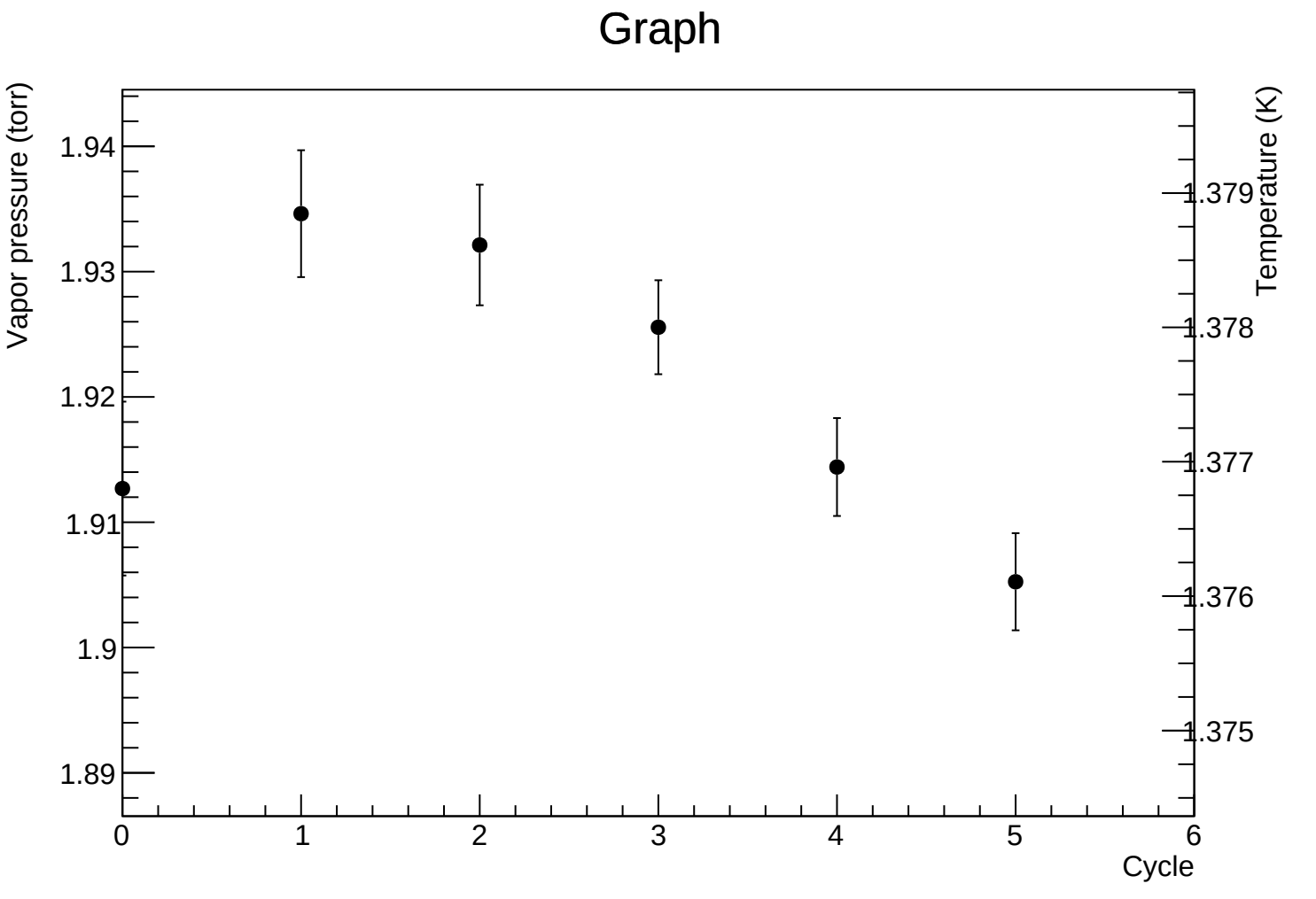
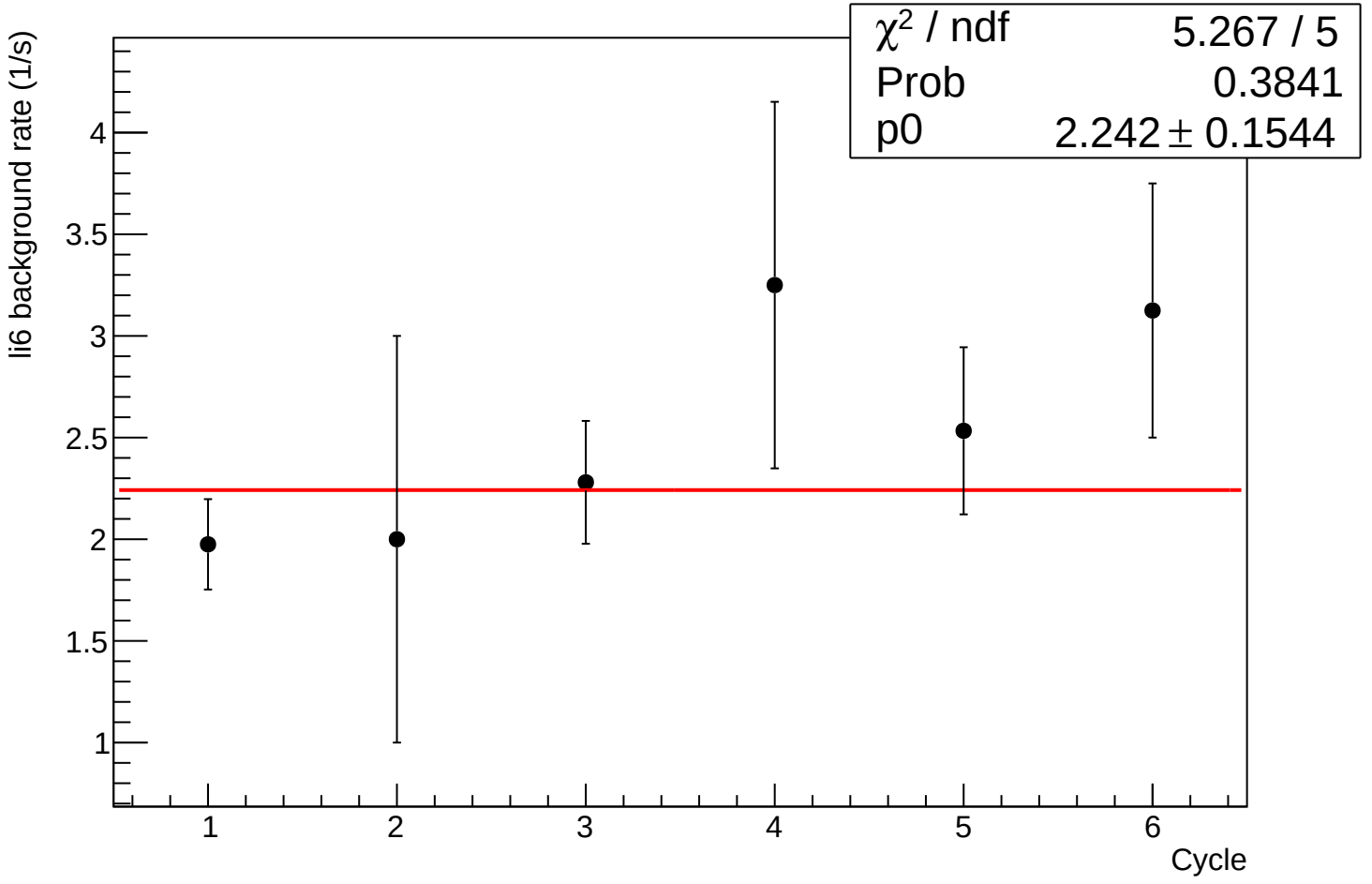
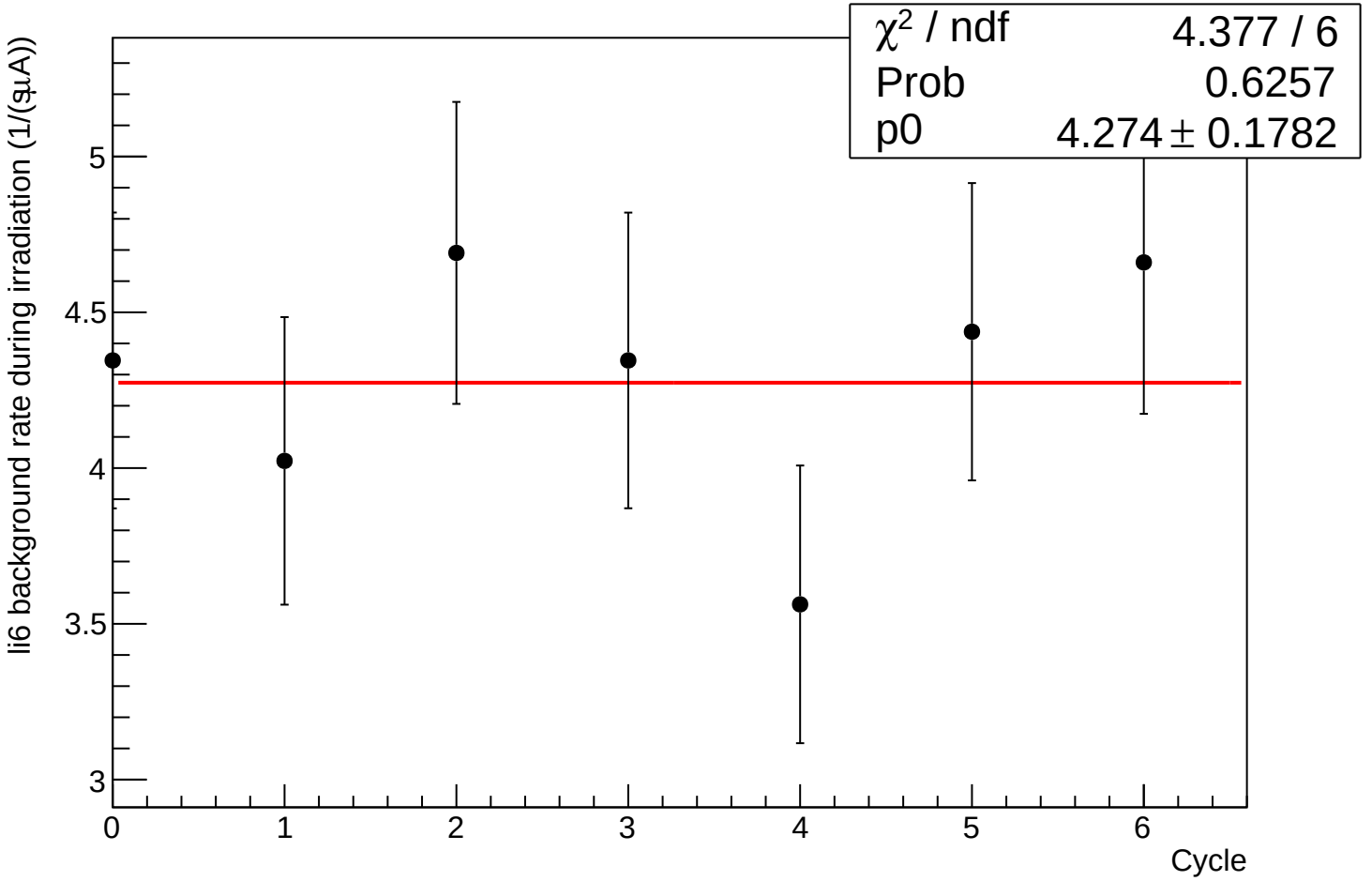
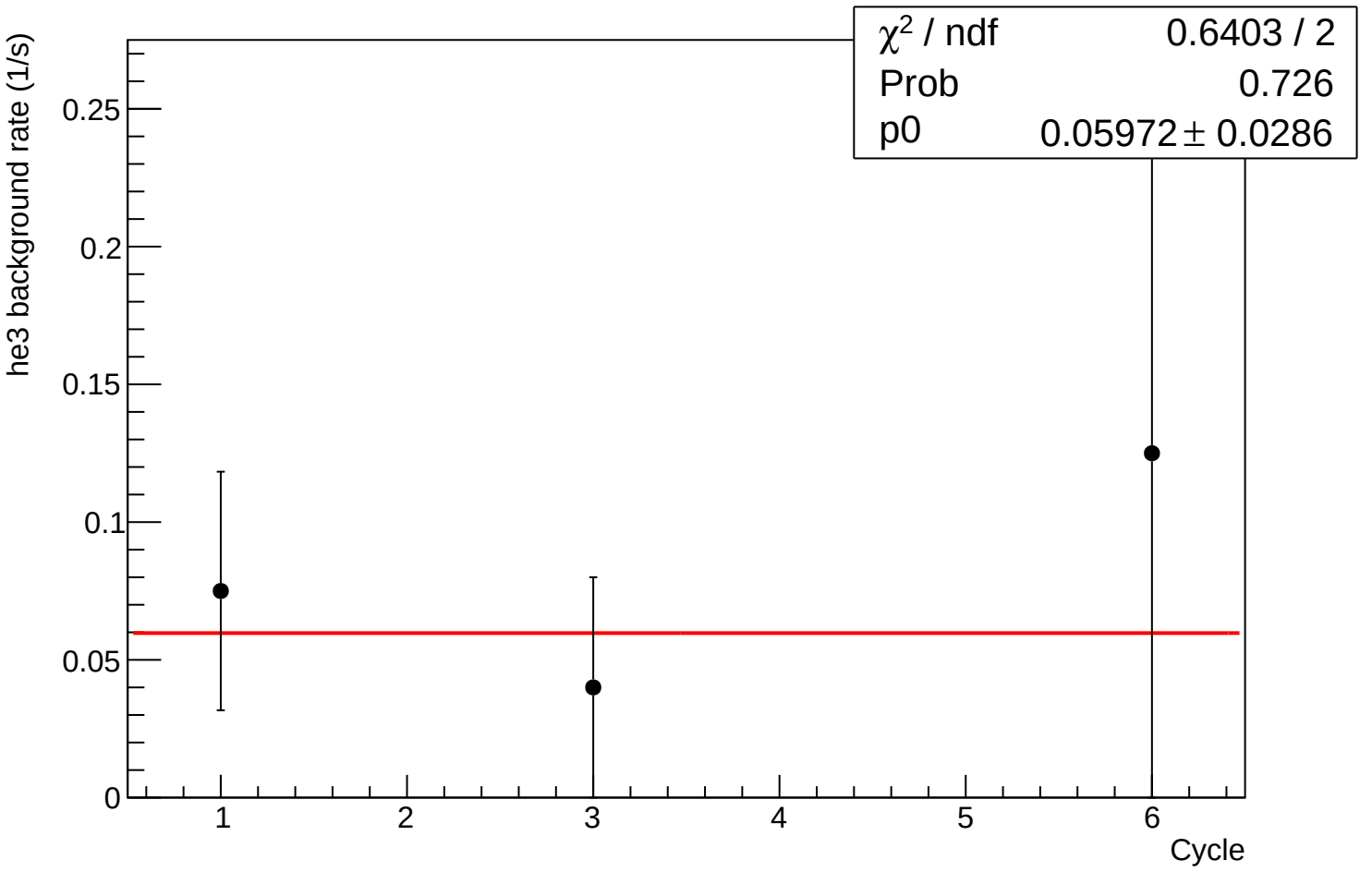

TCN18-300 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 4.047 / 5
Prob 0.5427
p0 1.663e+04 ± 91.72
τ 14.4 ± 0.1187
UCN count (μA⁻¹)
10⁴
10³
0
5
10
15
20
25
30
35
40
Storage time (s)

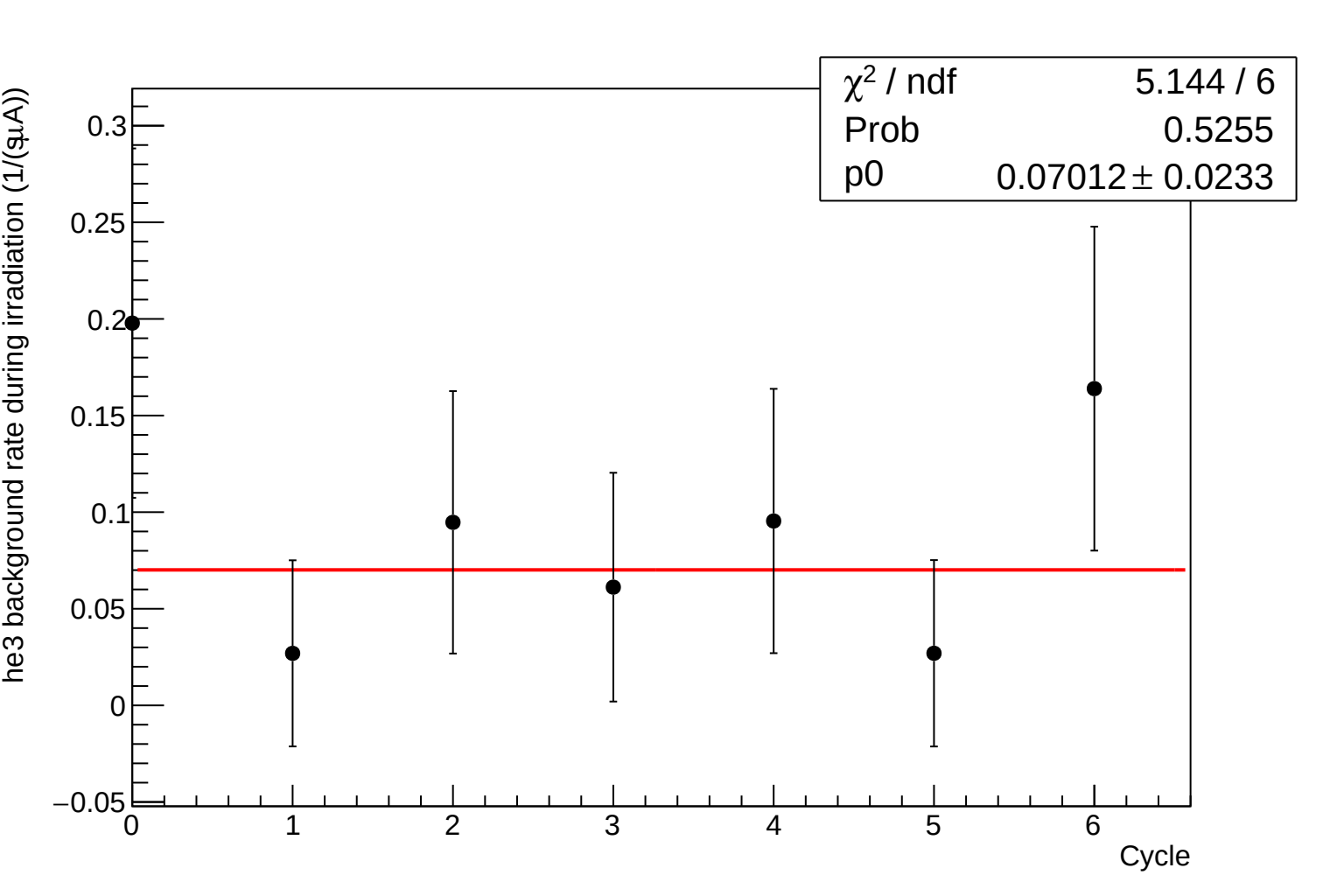

TCN18-300 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ2 / ndf 2.177 / 5
Prob 0.8241
p0 269.8 ± 10.7
τ 13.91 ± 0.8334
UCN count (μA-1)
10
10^2
0
5
10
15
20
25
30
35
40
Storage time (s)

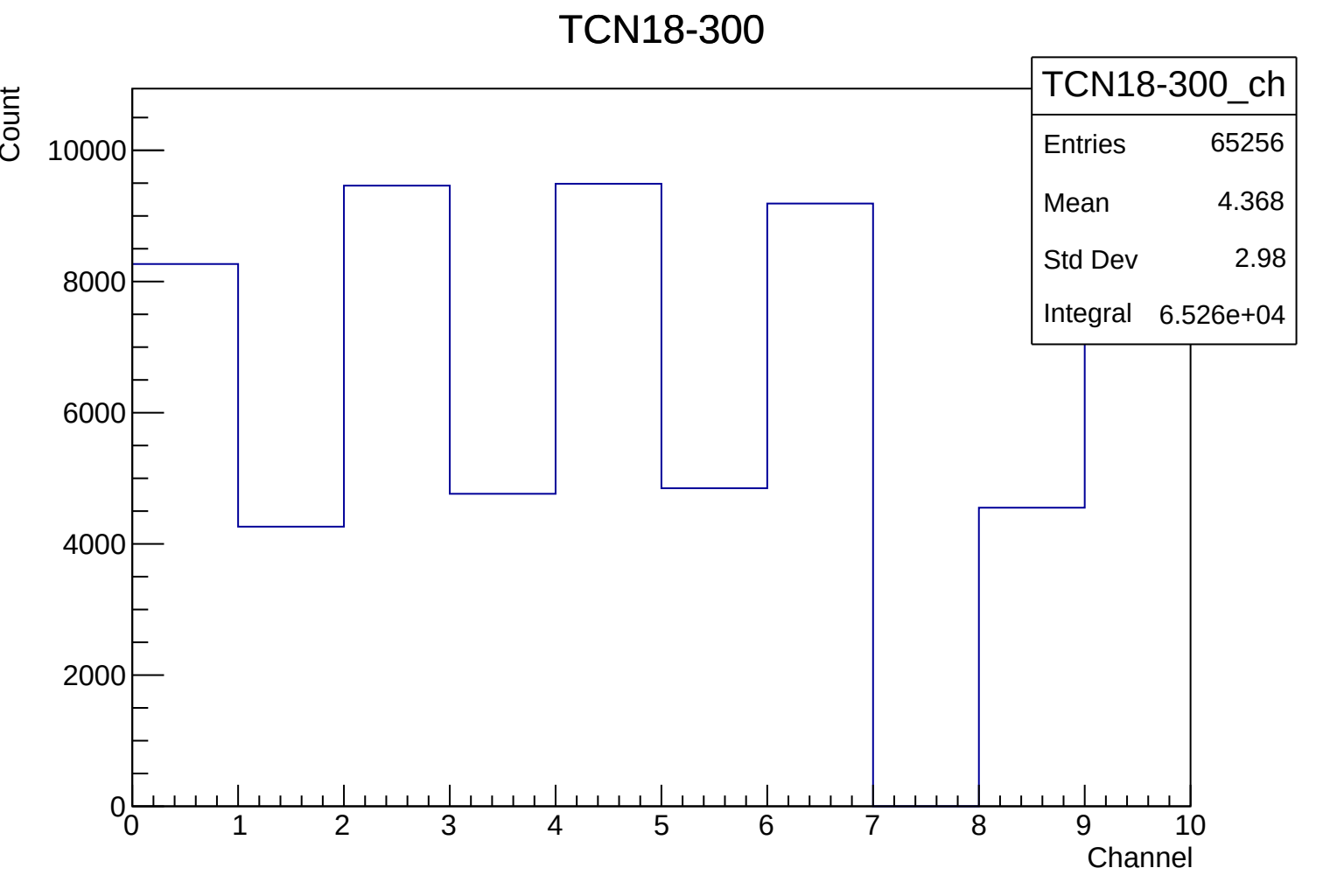

Graph
Vapor pressure (torr)
1.94
1.93
1.92
1.91
1.9
1.89
Temperature (K)
1.379
1.378
1.377
1.376
1.375
0
1
2
3
4
5
6
Cycle


li6 background rate (1/s)
4
3.5
3
2.5
2
1.5
1
1
2
3
4
5
6
Cycle
χ² / ndf 5.267 / 5
Prob 0.3841
p0 2.242 ± 0.1544


χ² / ndf 4.377 / 6
Prob 0.6257
p0 4.274 ± 0.1782
li6 background rate during irradiation (1/(μA))
5
4.5
4
3.5
3
0
1
2
3
4
5
6
Cycle


χ^2 / ndf 0.6403 / 2
Prob 0.726
p0 0.05972 ± 0.0286
he3 background rate (1/s)
0.25
0.2
0.15
0.1
0.05
0
1
2
3
4
5
6
Cycle


χ² / ndf 5.144 / 6
Prob 0.5255
p0 0.07012 ± 0.0233
he3 background rate during irradiation (1/(μA))
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
0
1
2
3
4
5
6
Cycle


TCN18-300
TCN18-300_ch
Entries 65256
Mean 4.368
Std Dev 2.98
Integral 6.526e+04
Count
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10
Channel