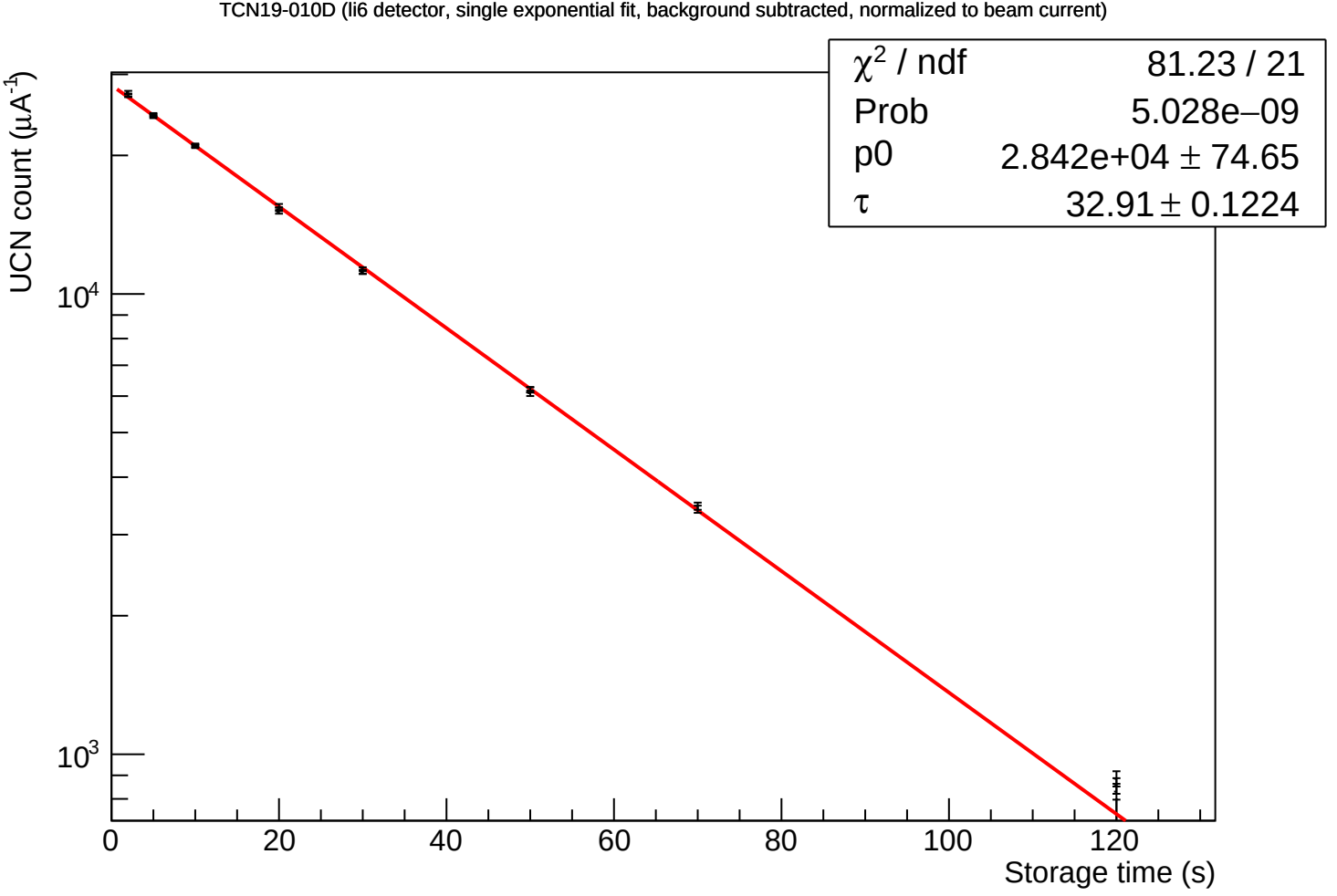
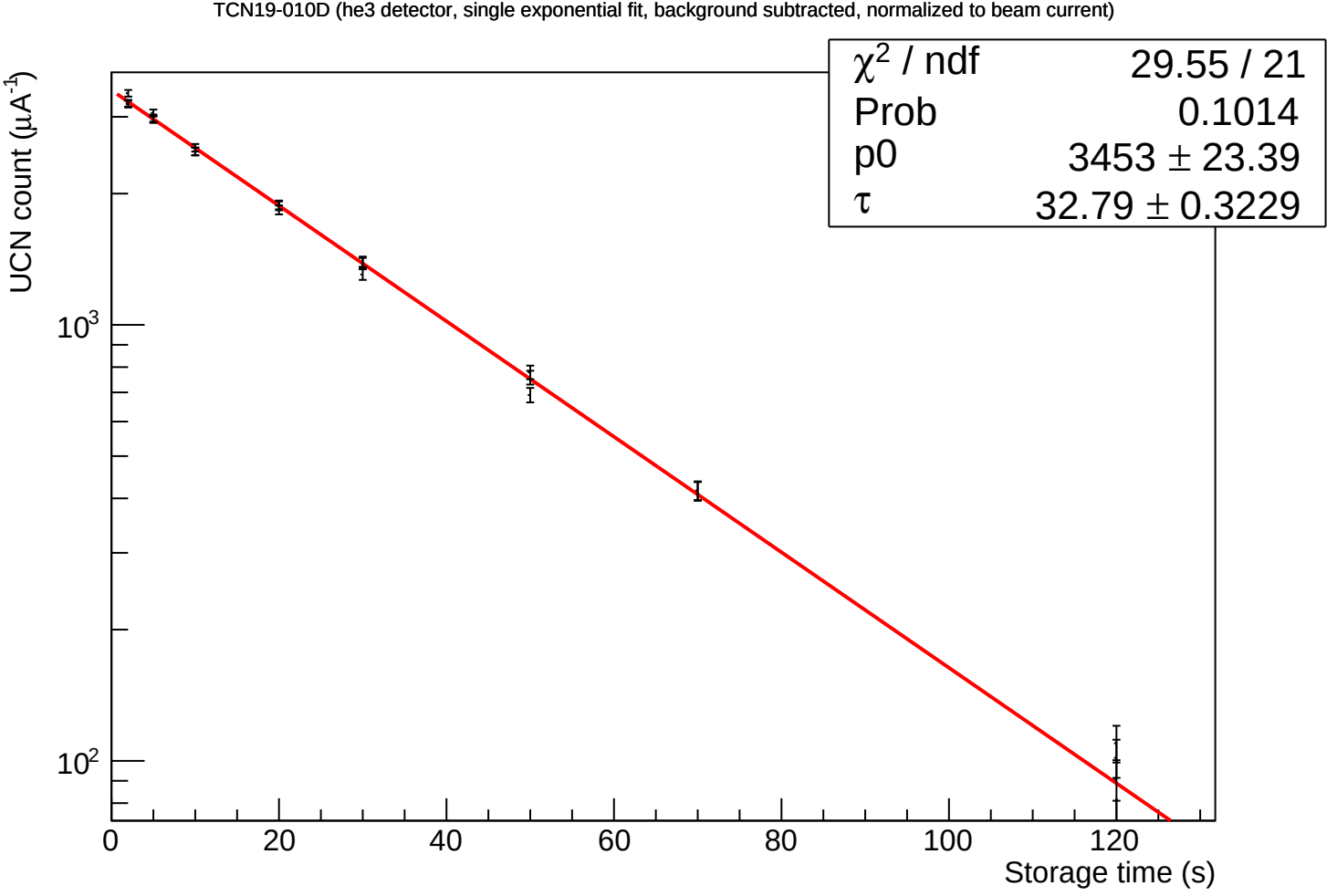
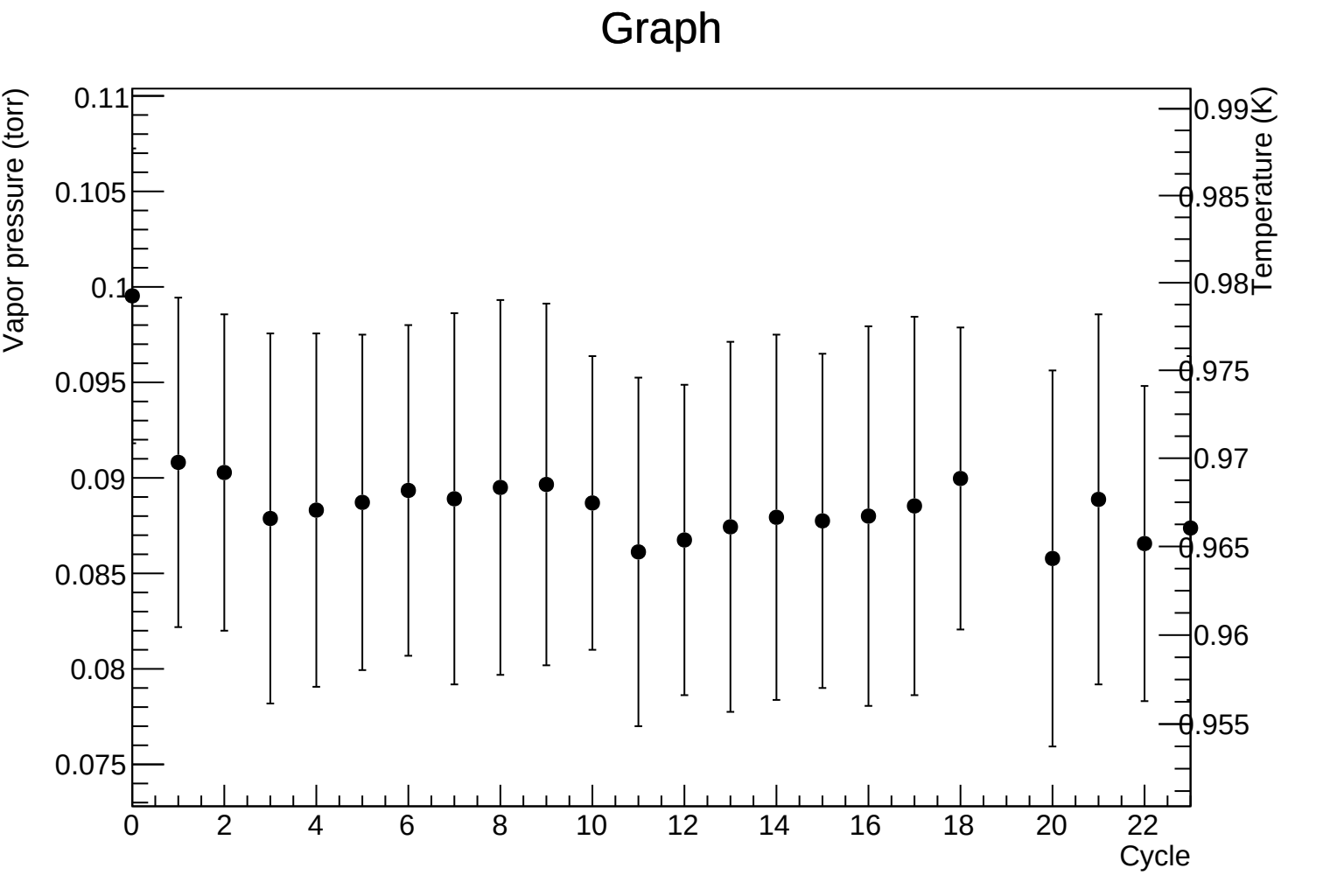
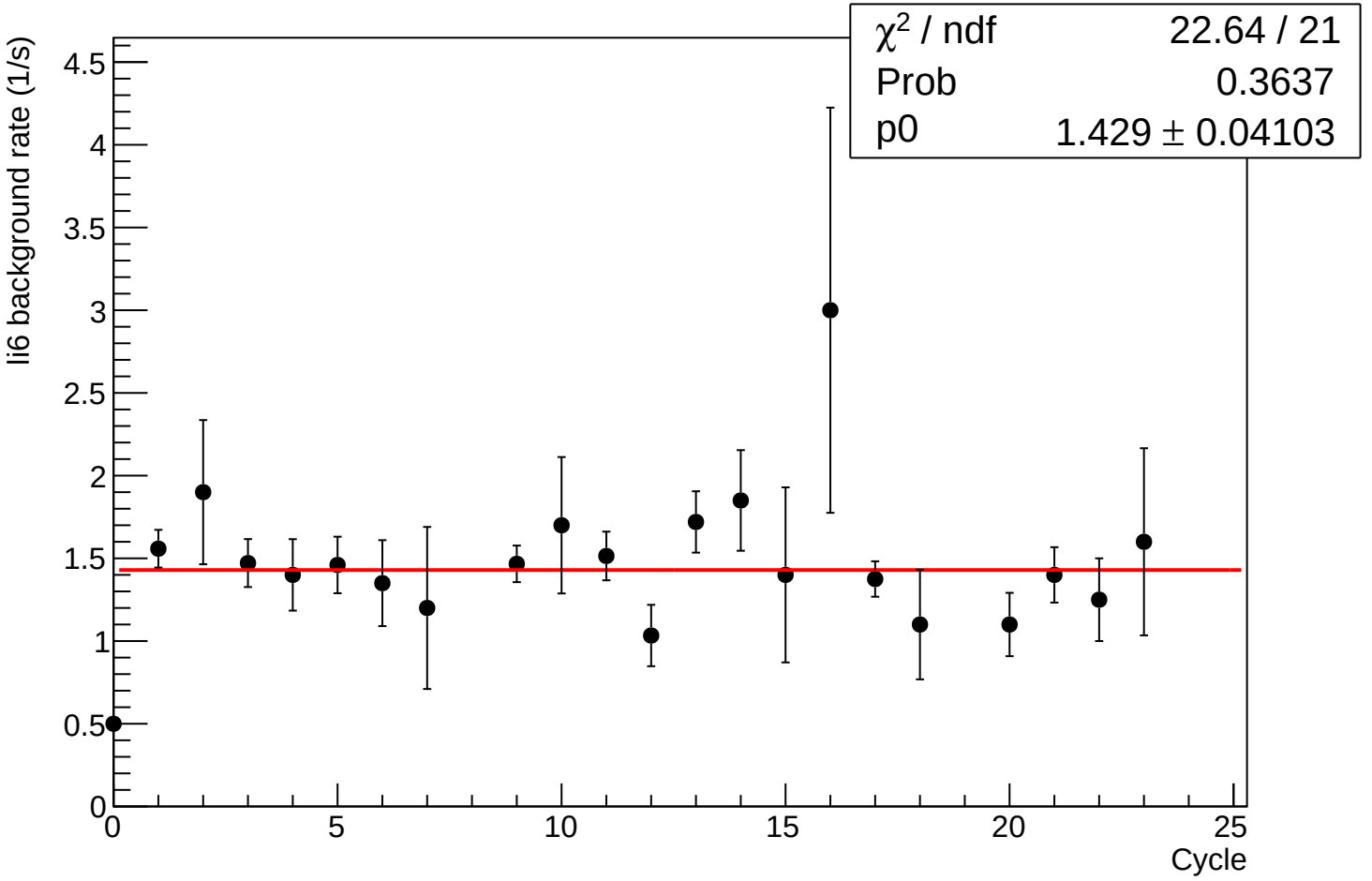
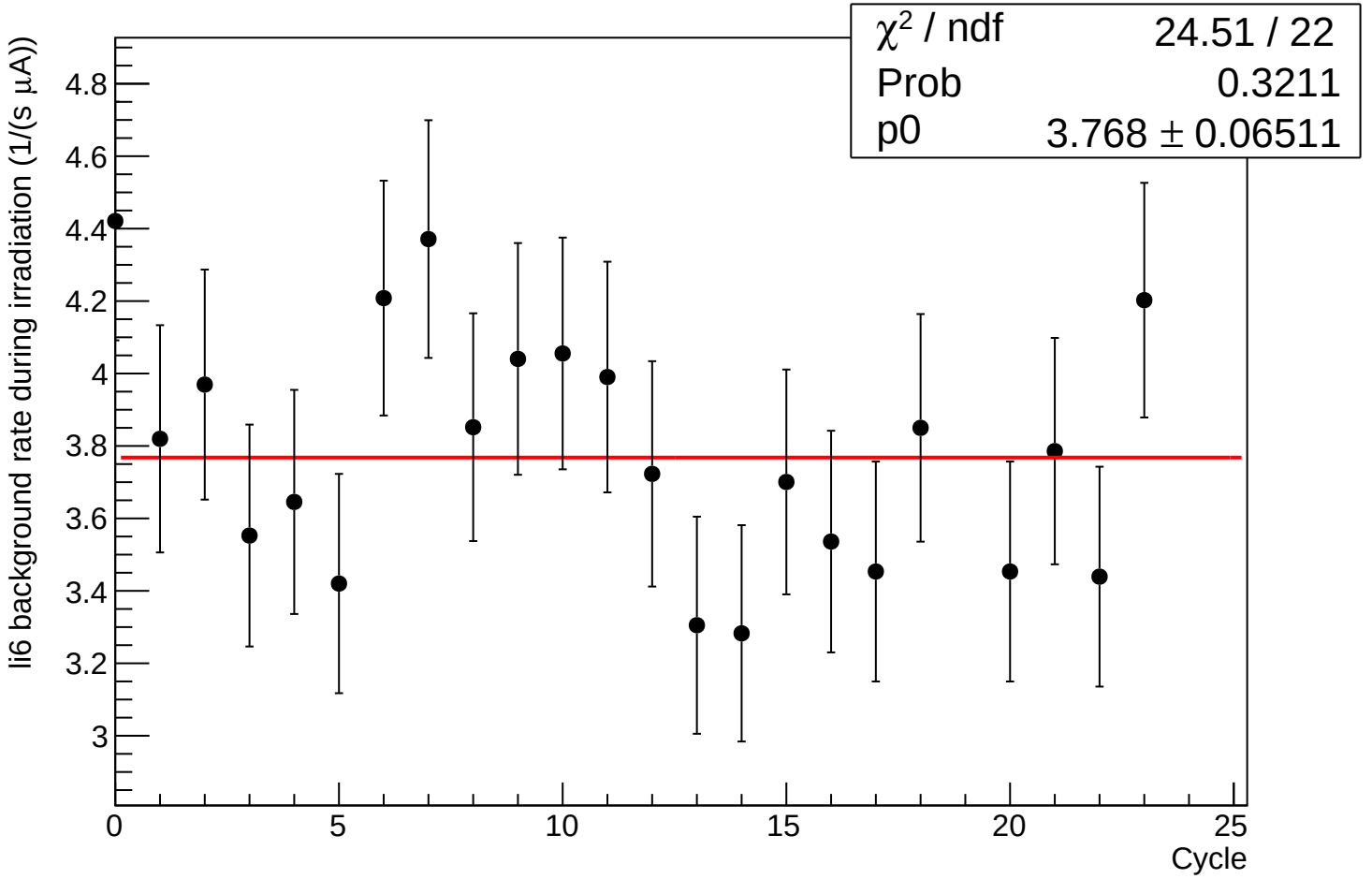
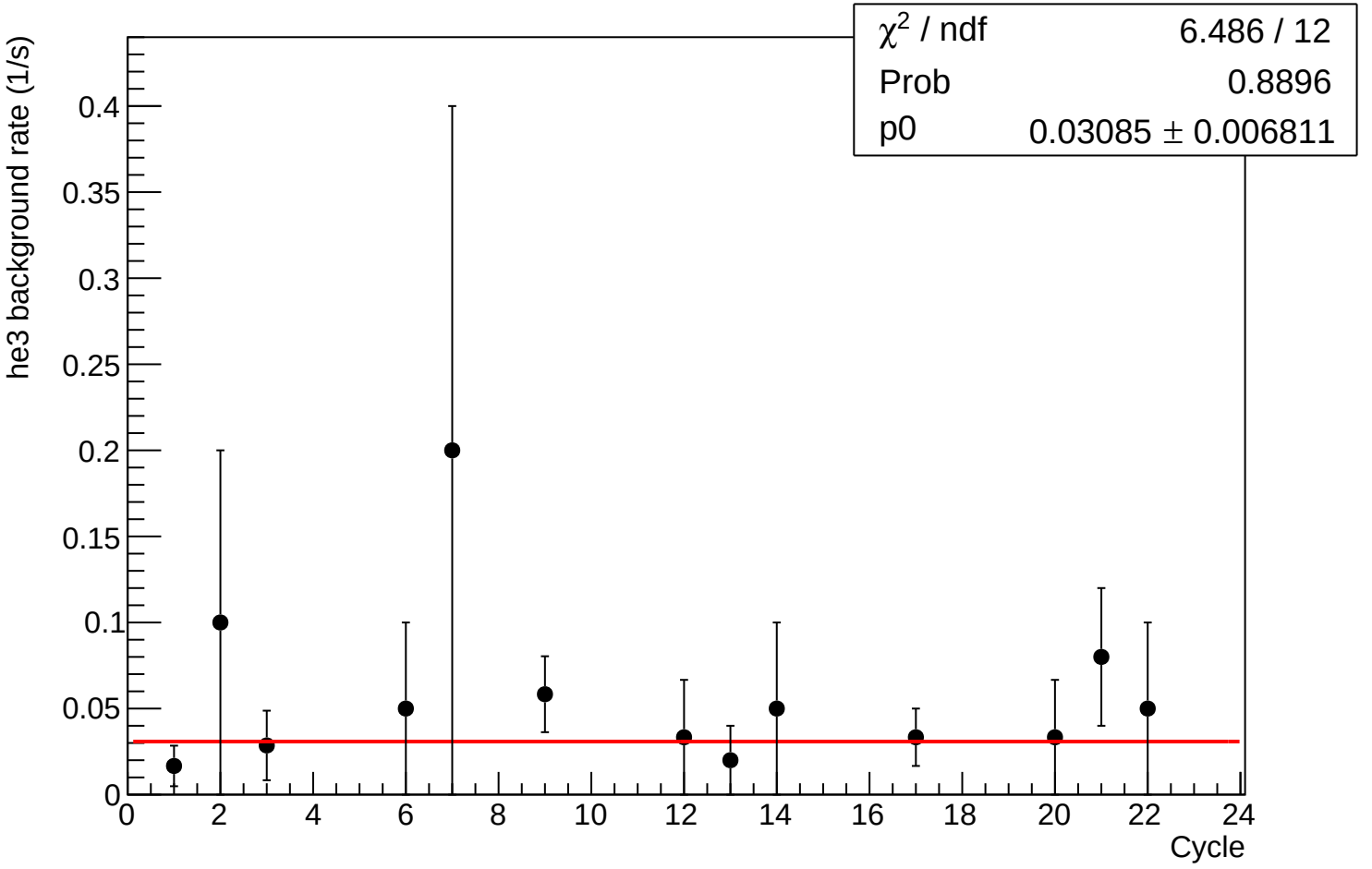

TCN19-010D (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 81.23 / 21
Prob 5.028e−09
p0 2.842e+04 ± 74.65
τ 32.91 ± 0.1224
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

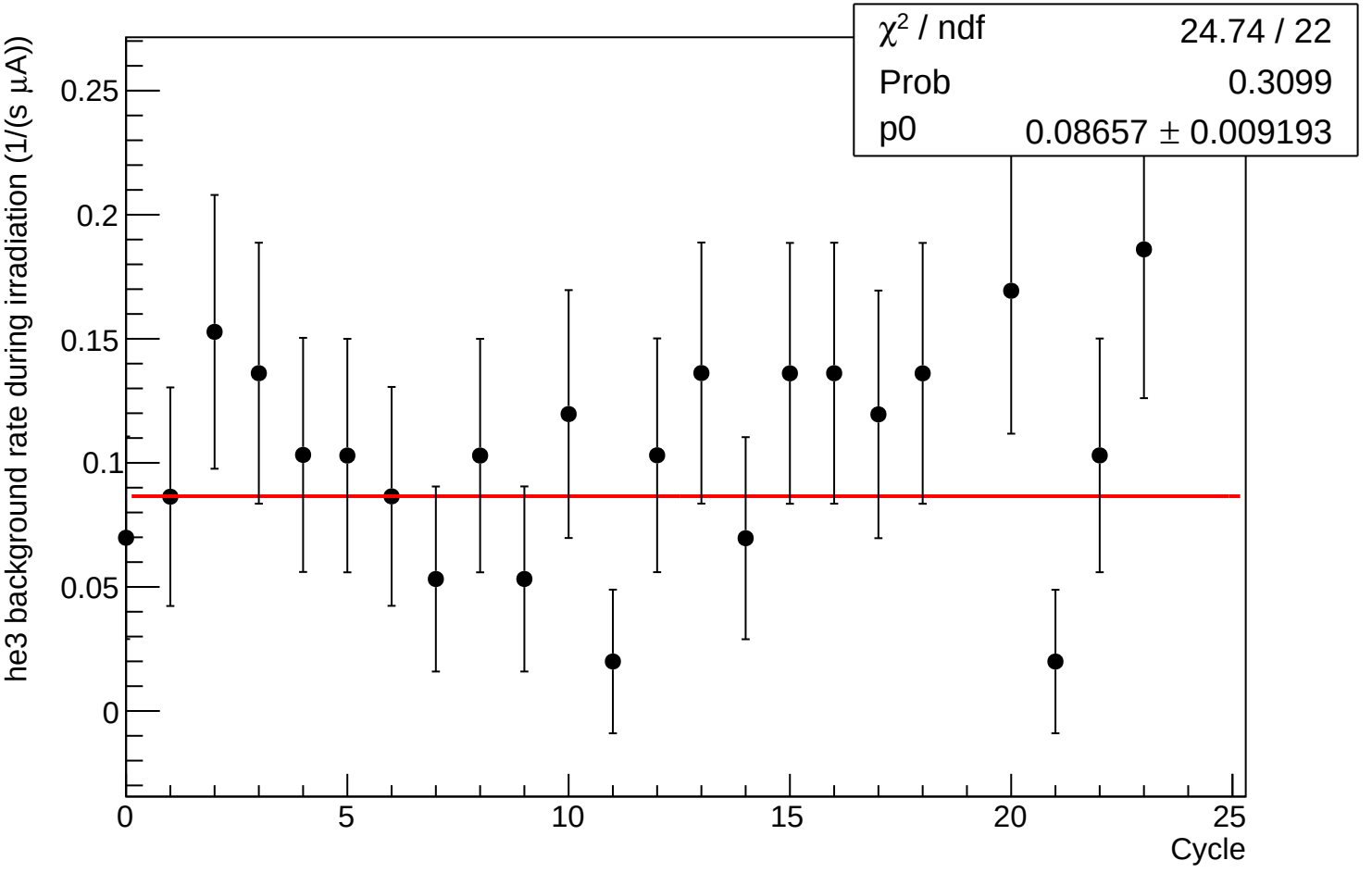

TCN19-010D (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 29.55 / 21
Prob 0.1014
p0 3453 ± 23.39
τ 32.79 ± 0.3229
UCN count (μA⁻¹)
10³
10²
0
20
40
60
80
100
120
Storage time (s)

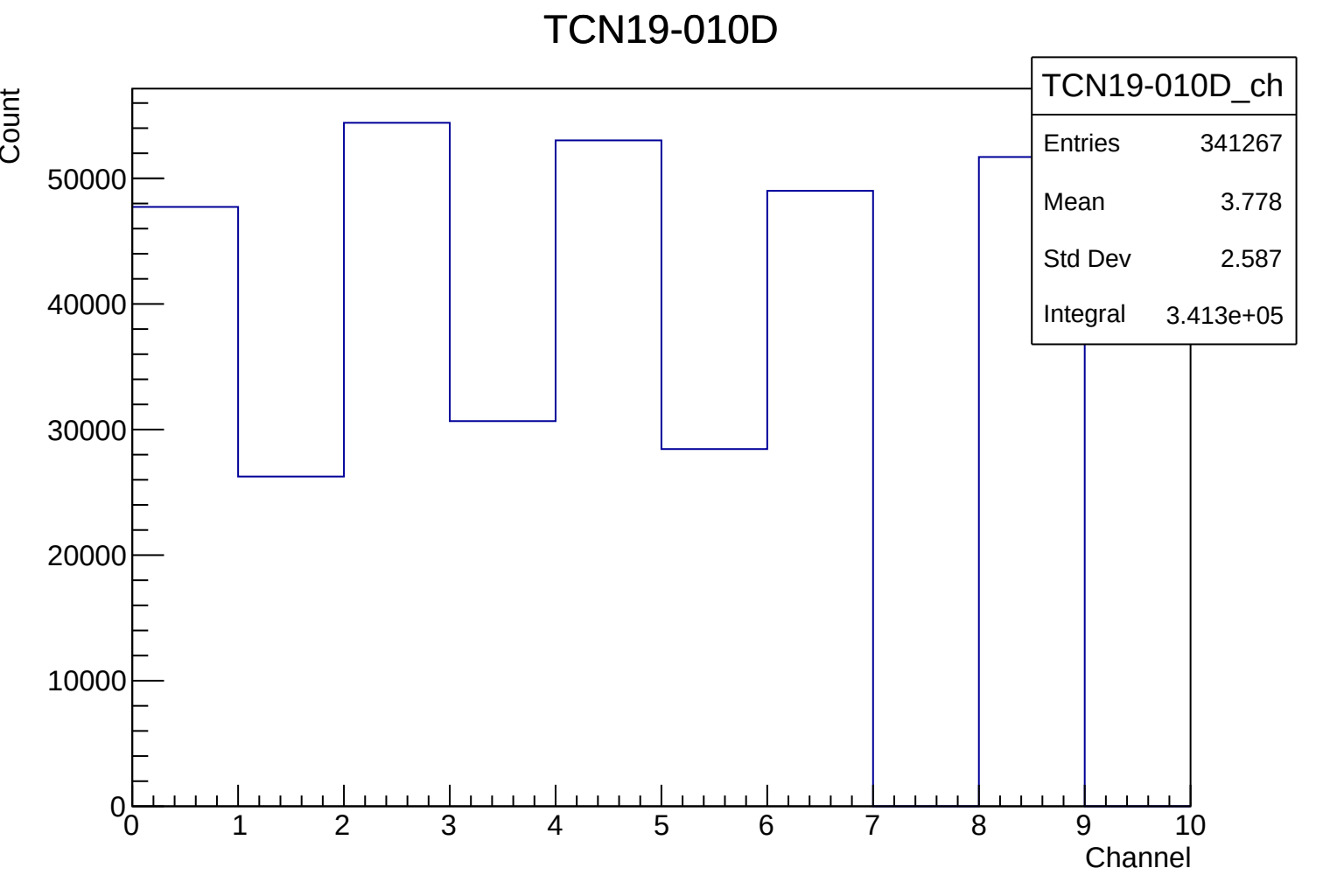

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.99
0.985
0.98
0.975
0.97
0.965
0.96
0.955
0
2
4
6
8
10
12
14
16
18
20
22


χ^2 / ndf 22.64 / 21
Prob 0.3637
p0 1.429 ± 0.04103
li6 background rate (1/s)
Cycle
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0
5
10
15
20
25


χ² / ndf 24.51 / 22
Prob 0.3211
p0 3.768 ± 0.06511
li6 background rate during irradiation (1/(s μA))
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
0
5
10
15
20
25
Cycle


χ^2 / ndf 6.486 / 12
Prob 0.8896
p0 0.03085 ± 0.006811
he3 background rate (1/s)
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0
2
4
6
8
10
12
14
16
18
20
22
24
Cycle


χ² / ndf 24.74 / 22
Prob 0.3099
p0 0.08657 ± 0.009193
he3 background rate during irradiation (1/(s μA))
0.25
0.2
0.15
0.1
0.05
0
0
5
10
15
20
25
Cycle


TCN19-010D
Count
50000
40000
30000
20000
10000
0
0
1
2
3
4
5
6
7
8
9
10
Channel
TCN19-010D_ch
Entries 341267
Mean 3.778
Std Dev 2.587
Integral 3.413e+05