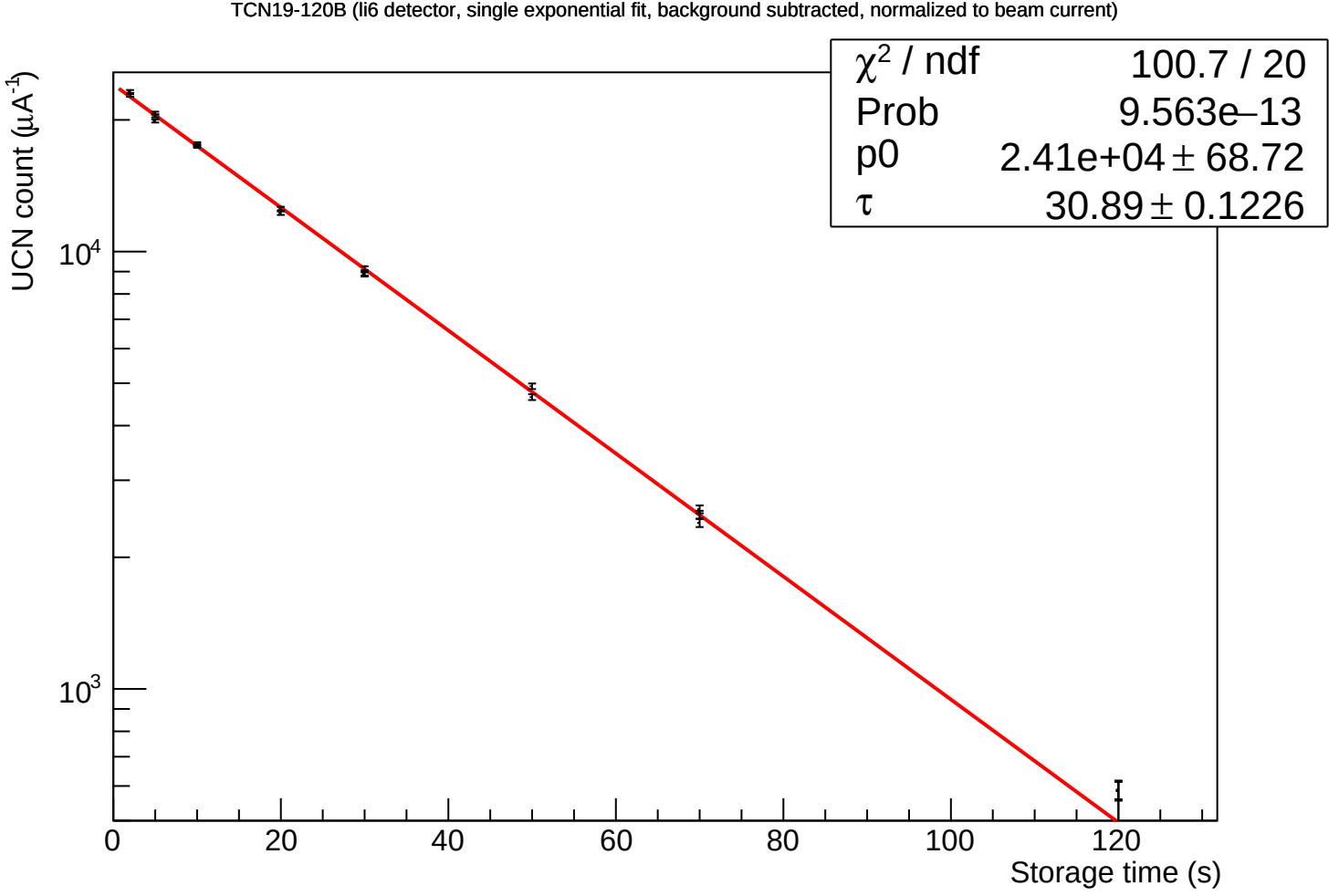
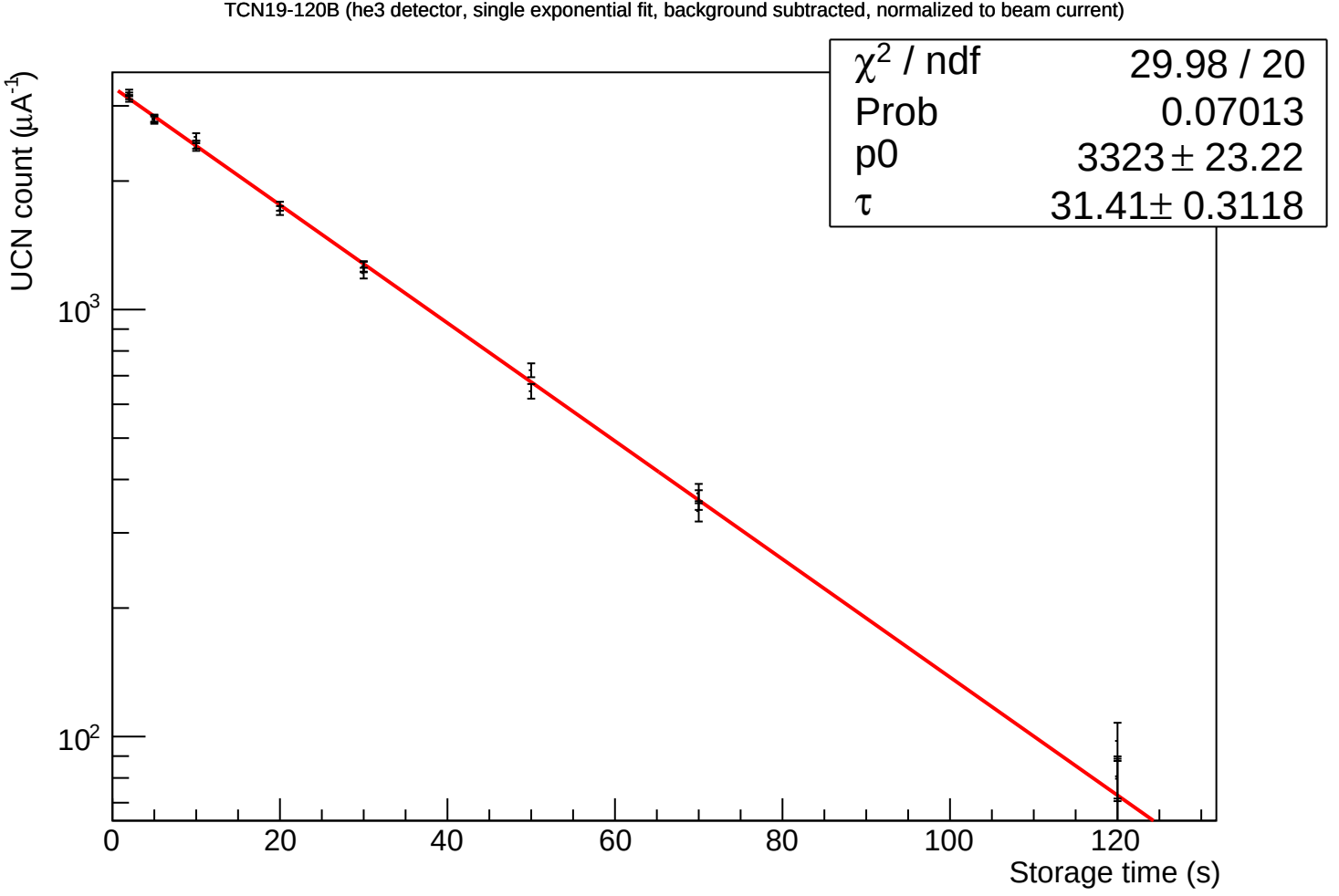
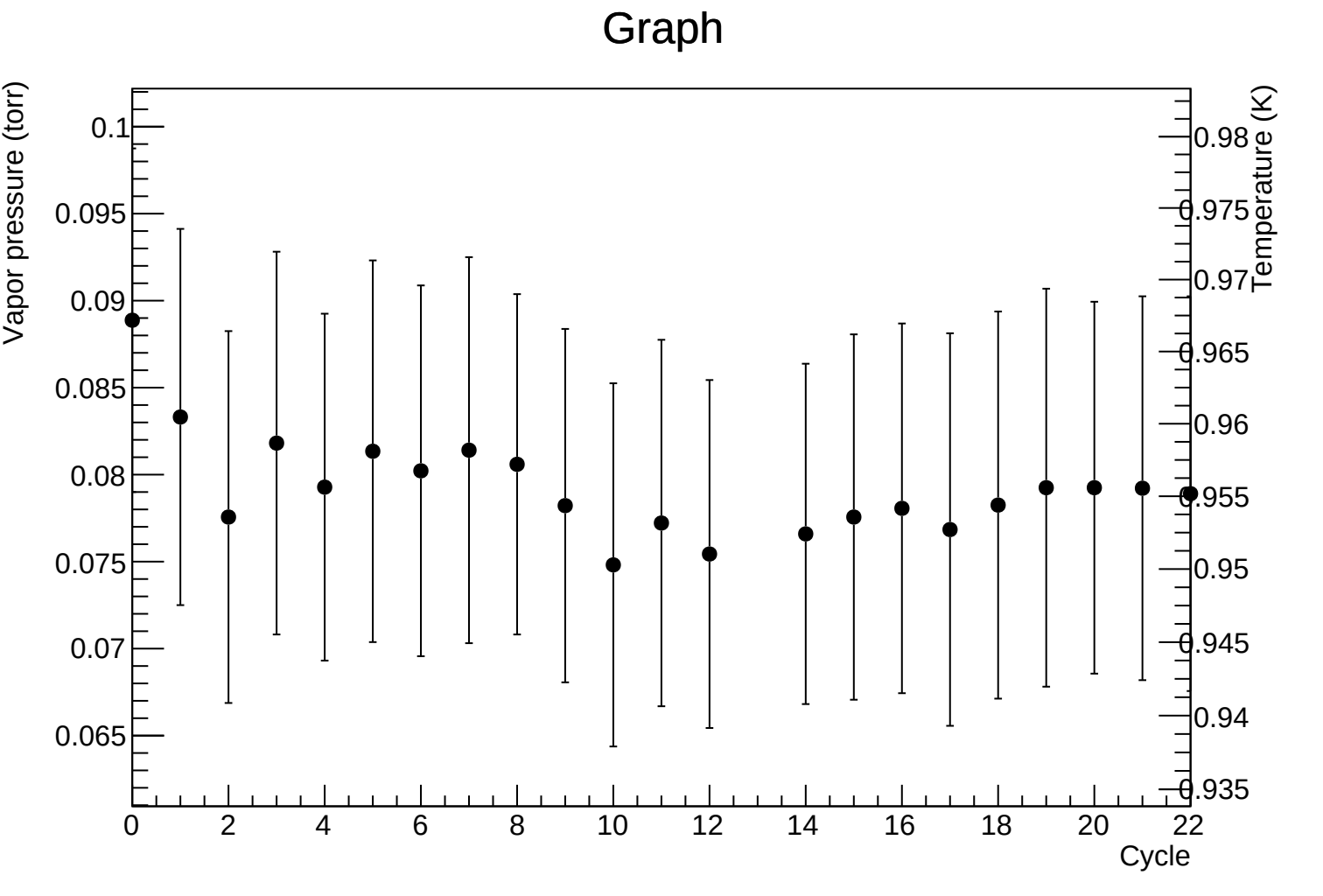
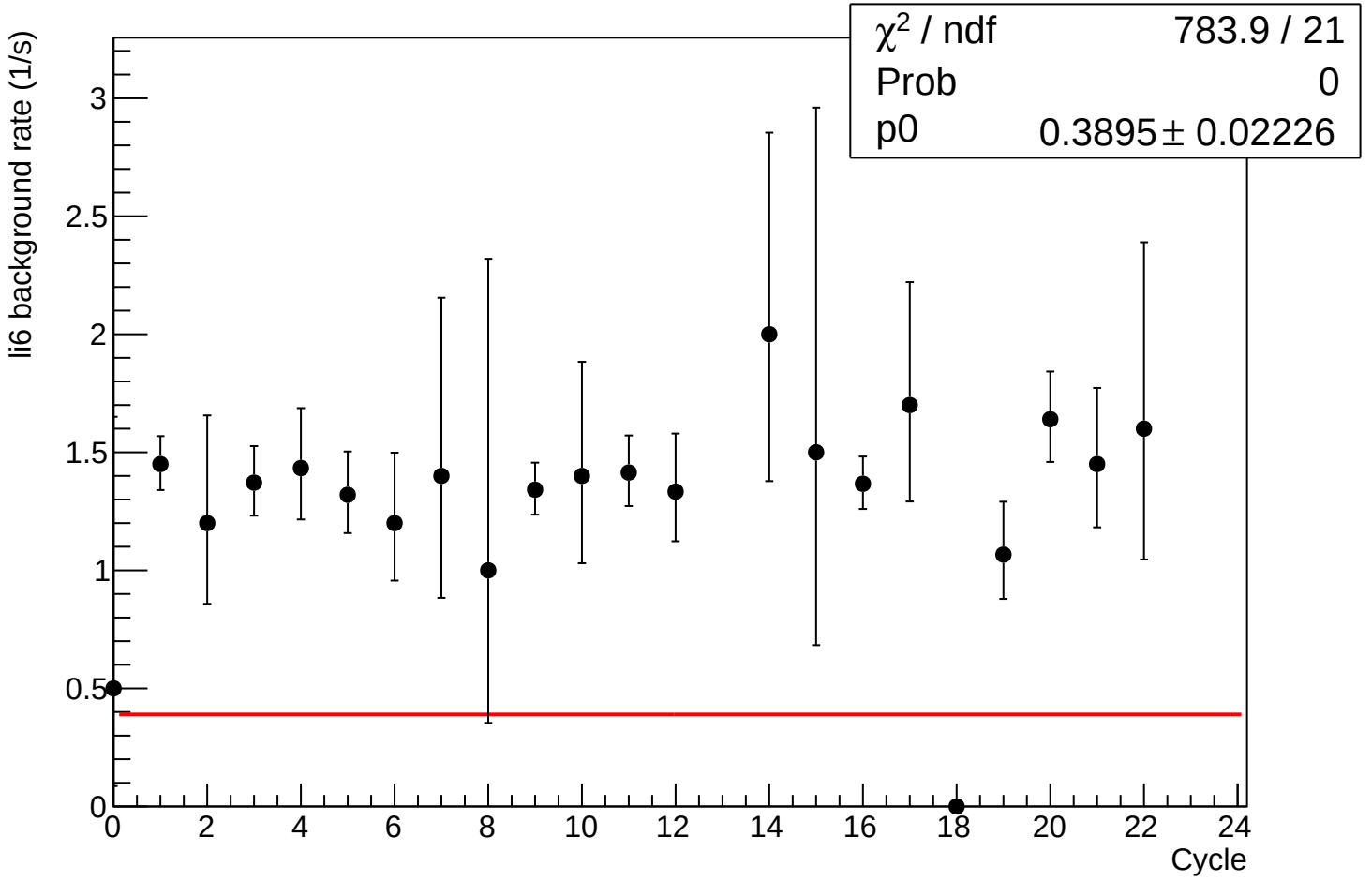
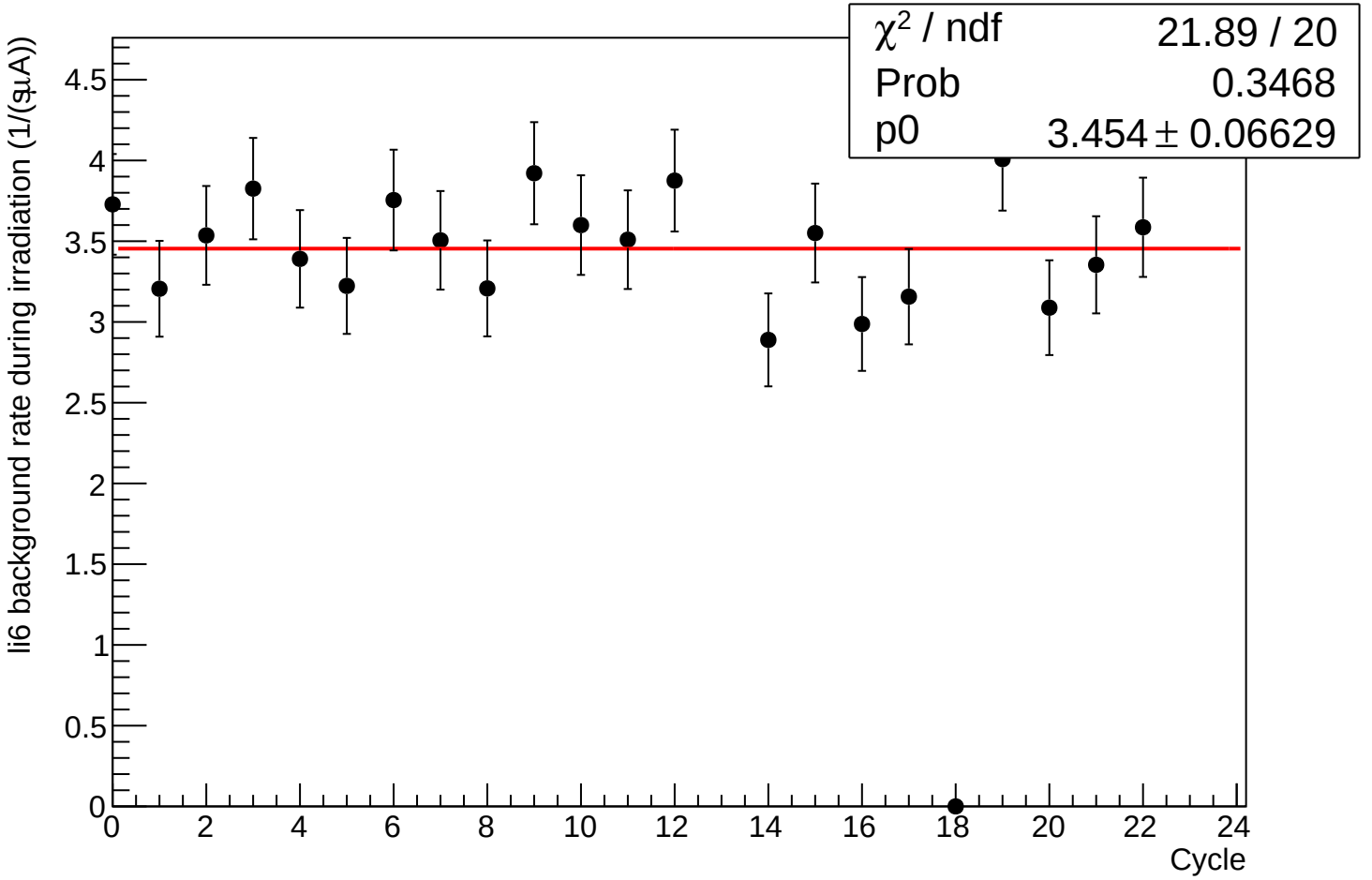
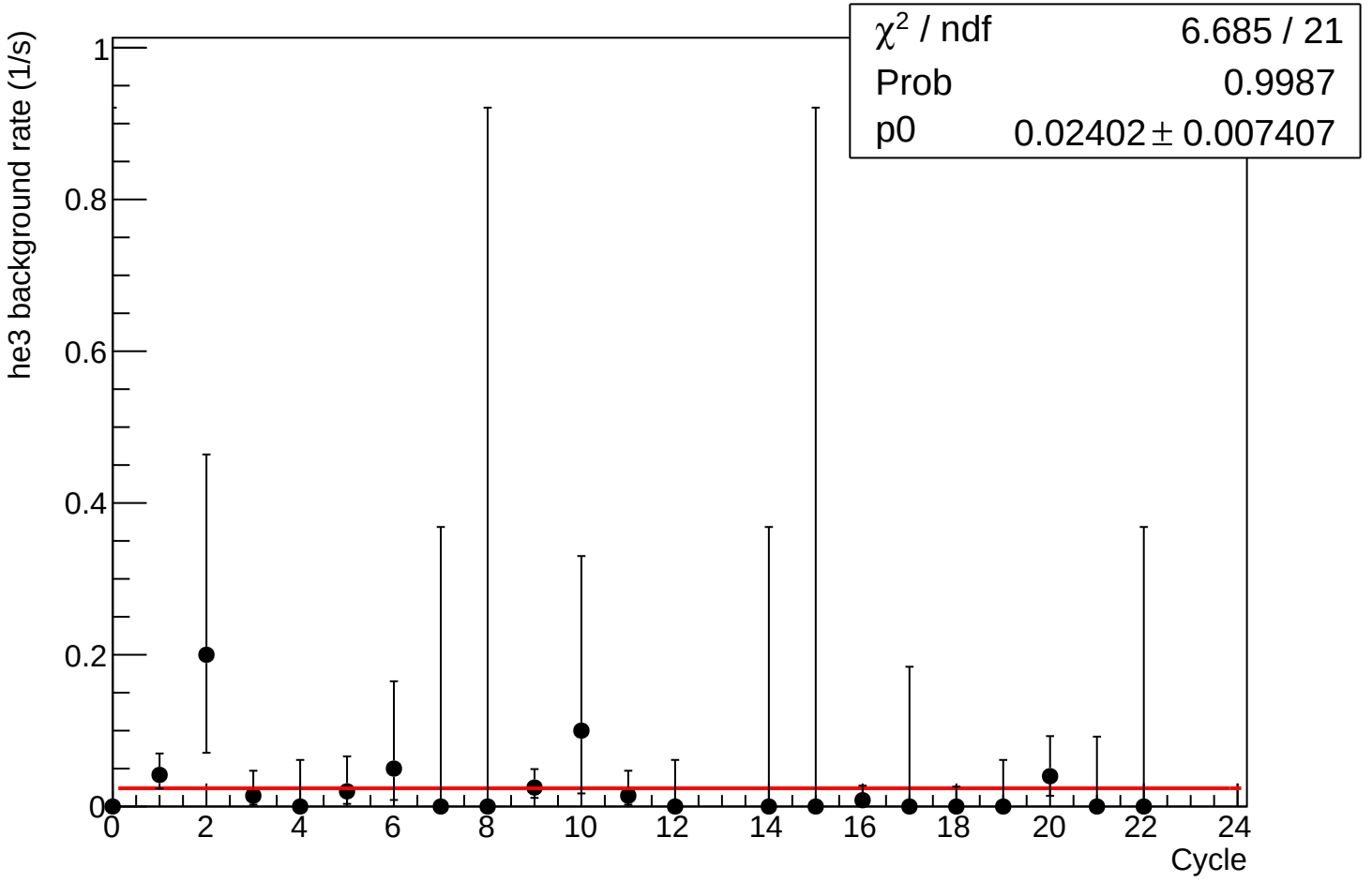

TCN19-120B (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 100.7 / 20
Prob 9.563e−13
p0 2.41e+04 ± 68.72
τ 30.89 ± 0.1226
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

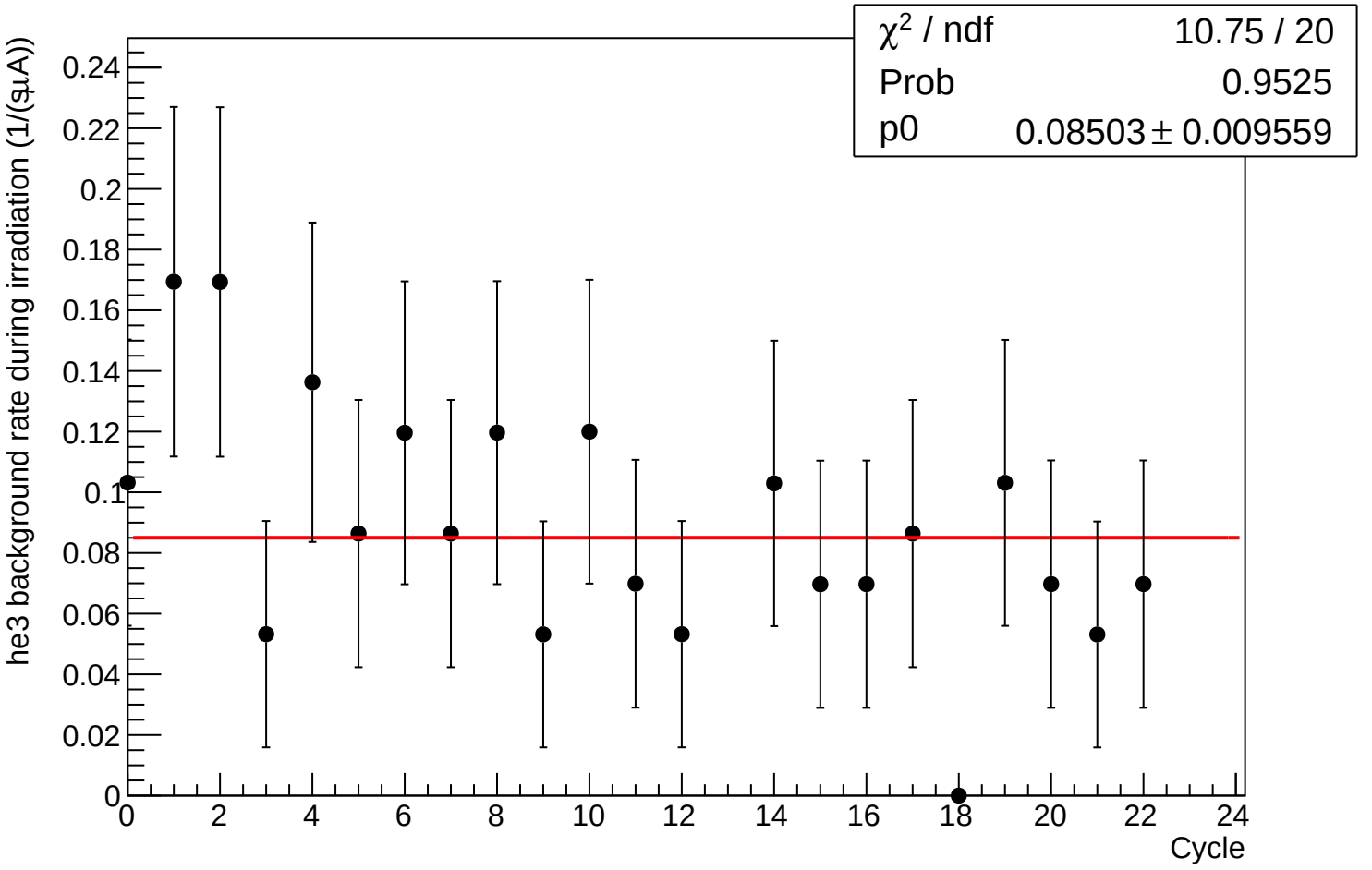

TCN19-120B (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ2 / ndf 29.98 / 20
Prob 0.07013
p0 3323 ± 23.22
τ 31.41 ± 0.3118
UCN count (μA-1)
10^3
10^2
0
20
40
60
80
100
120
Storage time (s)

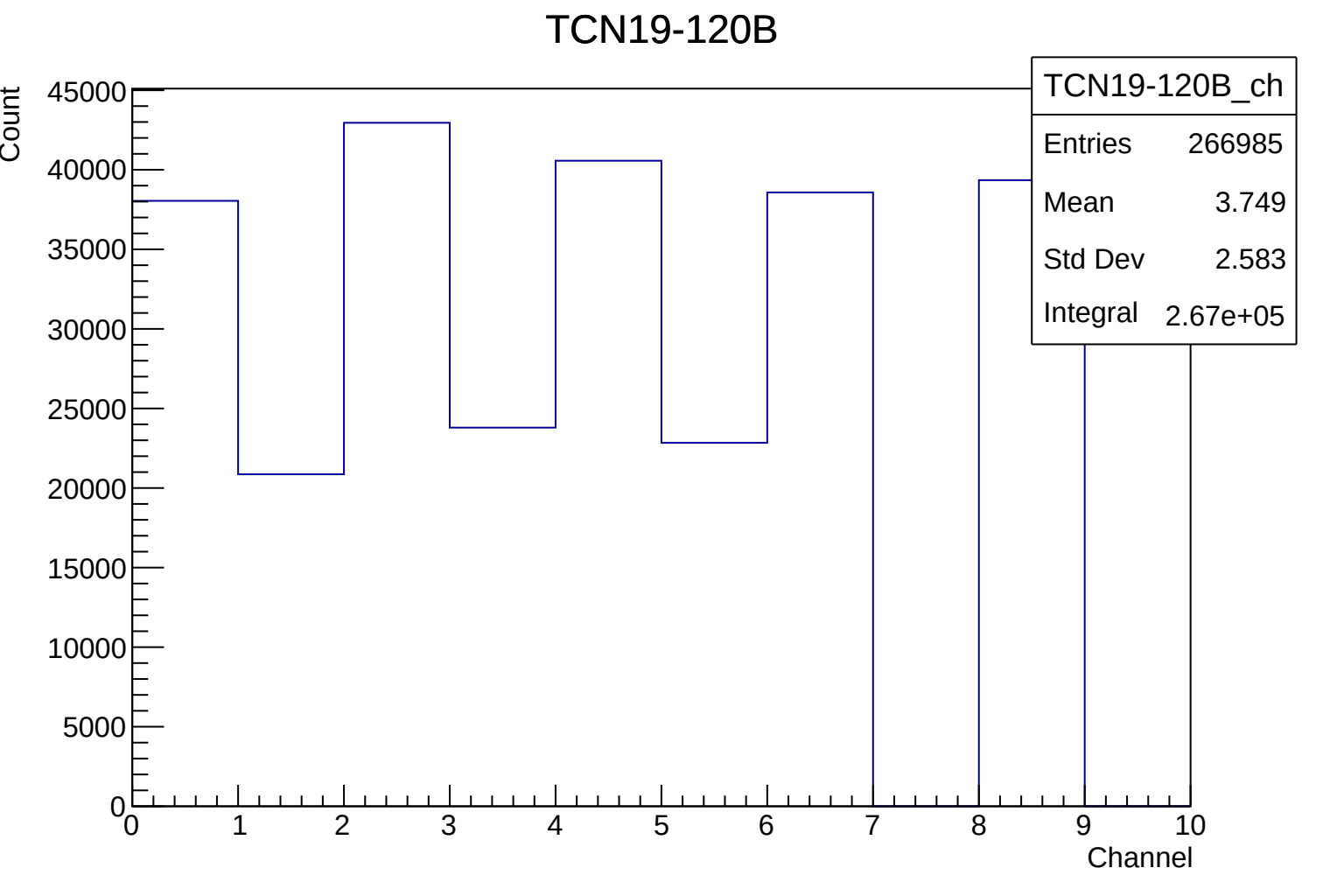

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.98
0.975
0.97
0.965
0.96
0.955
0.95
0.945
0.94
0.935
0
2
4
6
8
10
12
14
16
18
20
22


χ^2 / ndf 783.9 / 21
Prob 0
p0 0.3895 ± 0.02226
li6 background rate (1/s)
Cycle
0
0.5
1
1.5
2
2.5
3
0
2
4
6
8
10
12
14
16
18
20
22
24


χ² / ndf 21.89 / 20
Prob 0.3468
p0 3.454 ± 0.06629
li6 background rate during irradiation (1/(μA))
Cycle
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0
2
4
6
8
10
12
14
16
18
20
22
24


χ² / ndf 6.685 / 21
Prob 0.9987
p0 0.02402 ± 0.007407
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
18
20
22
24


χ² / ndf 10.75 / 20
Prob 0.9525
p0 0.08503 ± 0.009559
he3 background rate during irradiation (1/(μA))
Cycle
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
0.22
0.24
0
2
4
6
8
10
12
14
16
18
20
22
24


TCN19-120B
TCN19-120B_ch
Entries 266985
Mean 3.749
Std Dev 2.583
Integral 2.67e+05
Count
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10
Channel