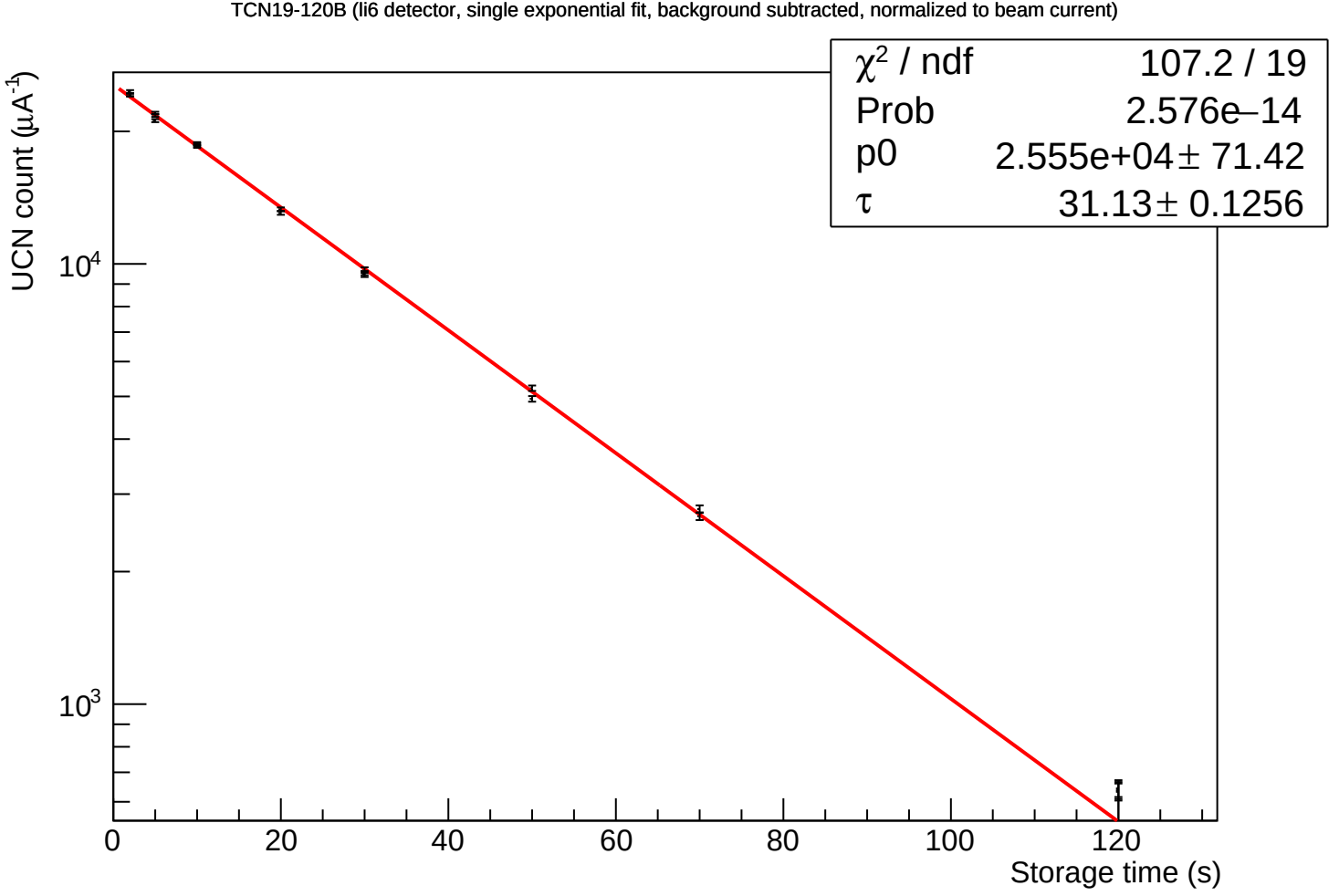
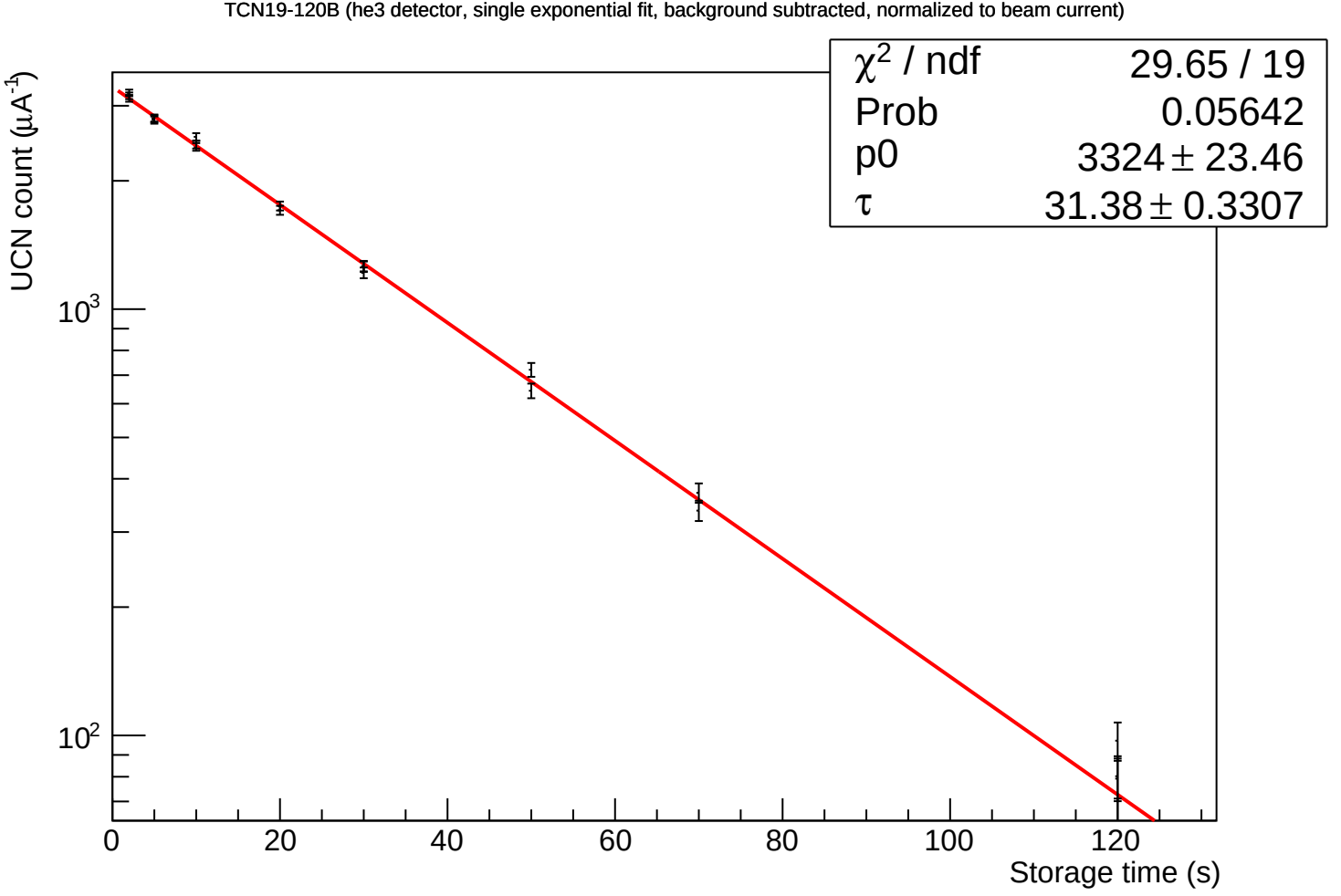
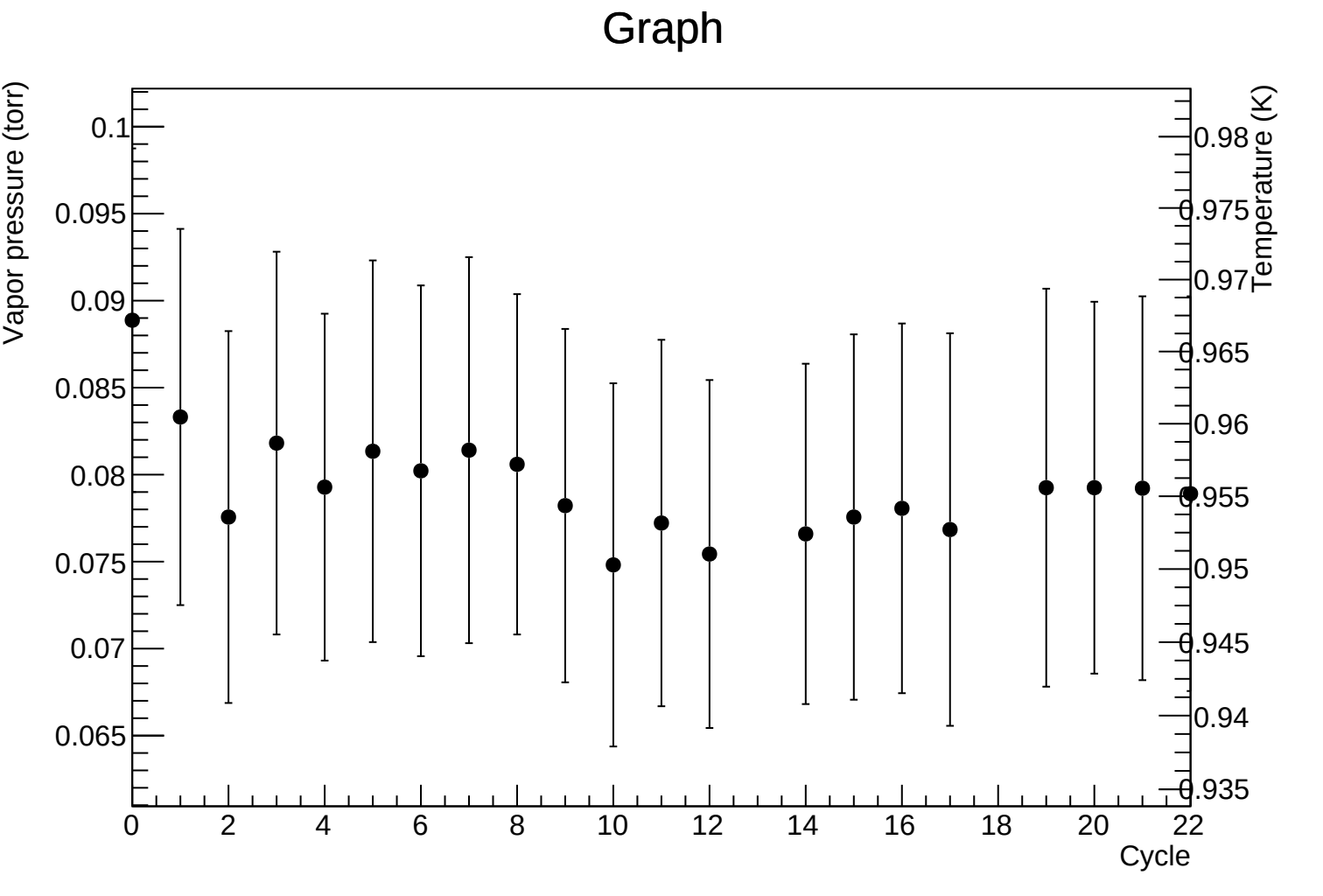
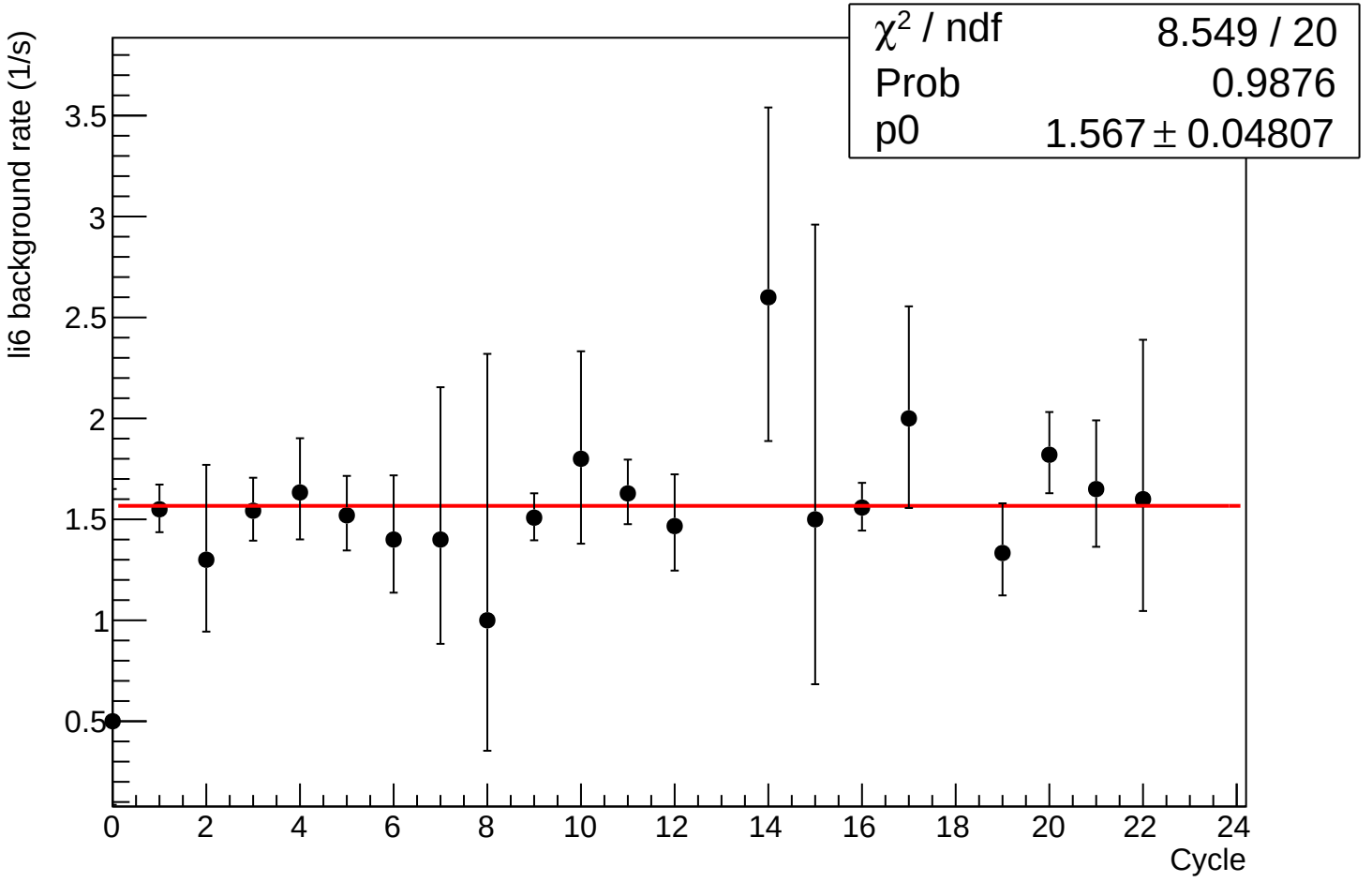
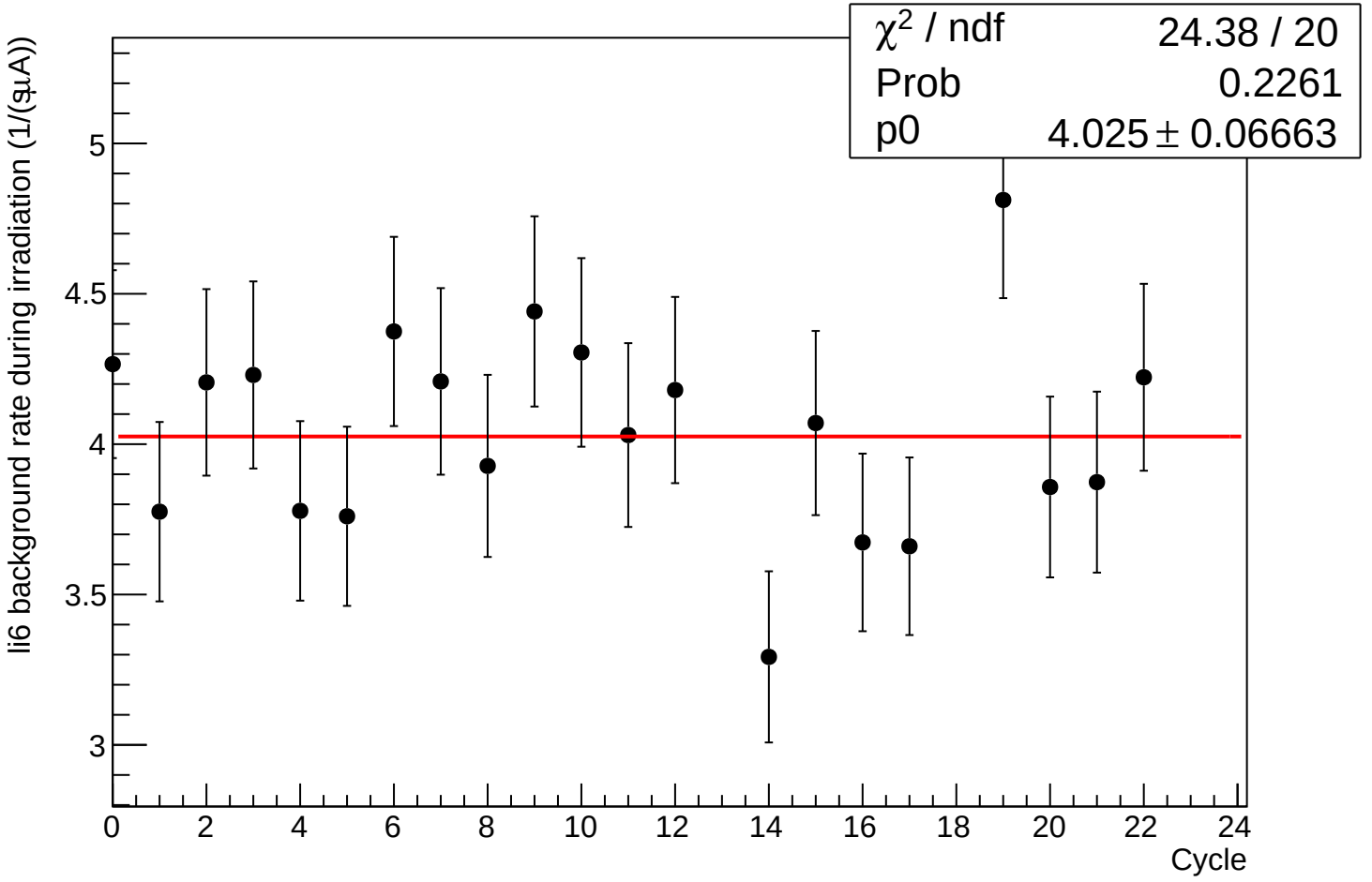
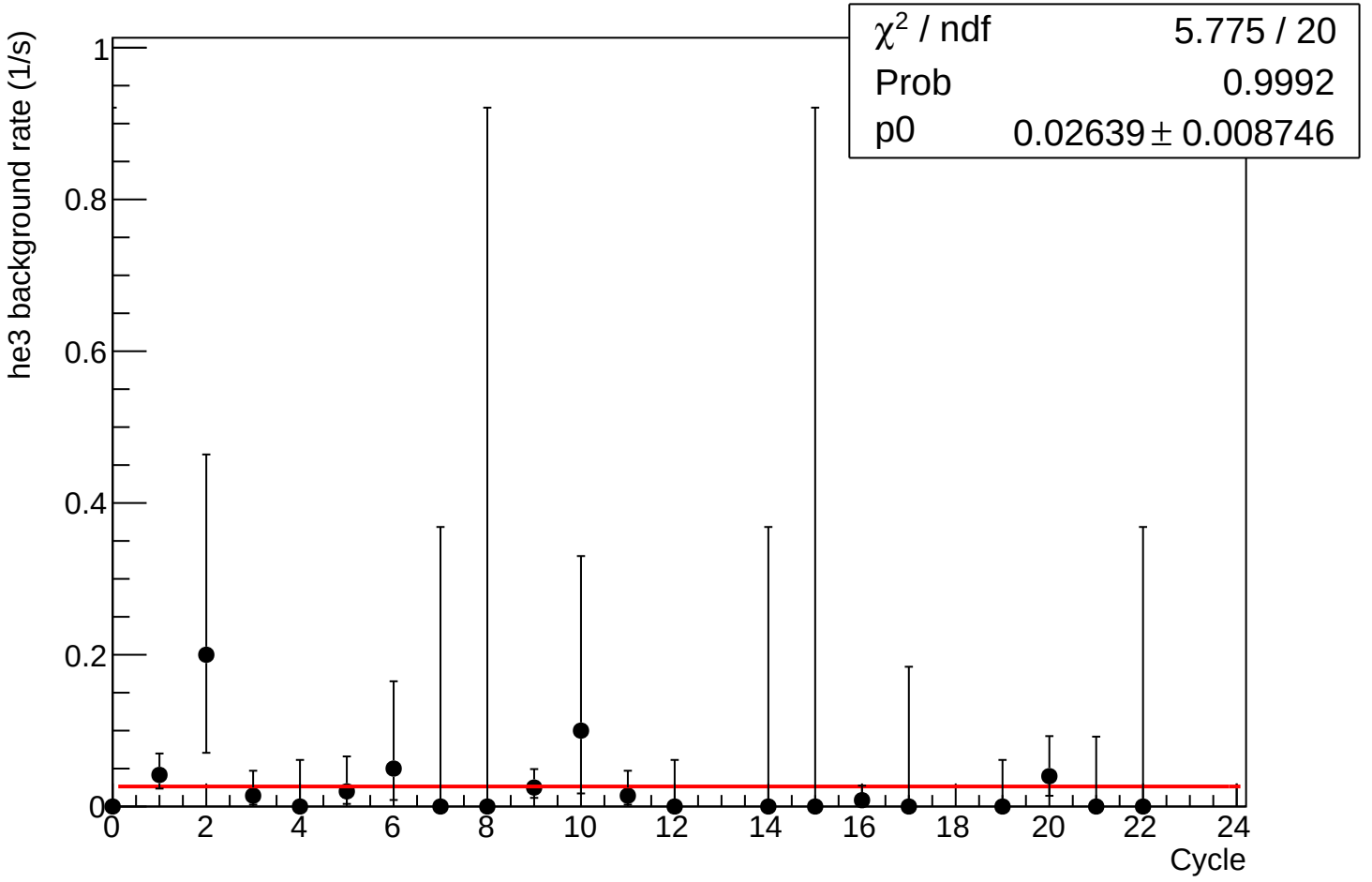

TCN19-120B (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 107.2 / 19
Prob 2.576e−14
p0 2.555e+04 ± 71.42
τ 31.13 ± 0.1256
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

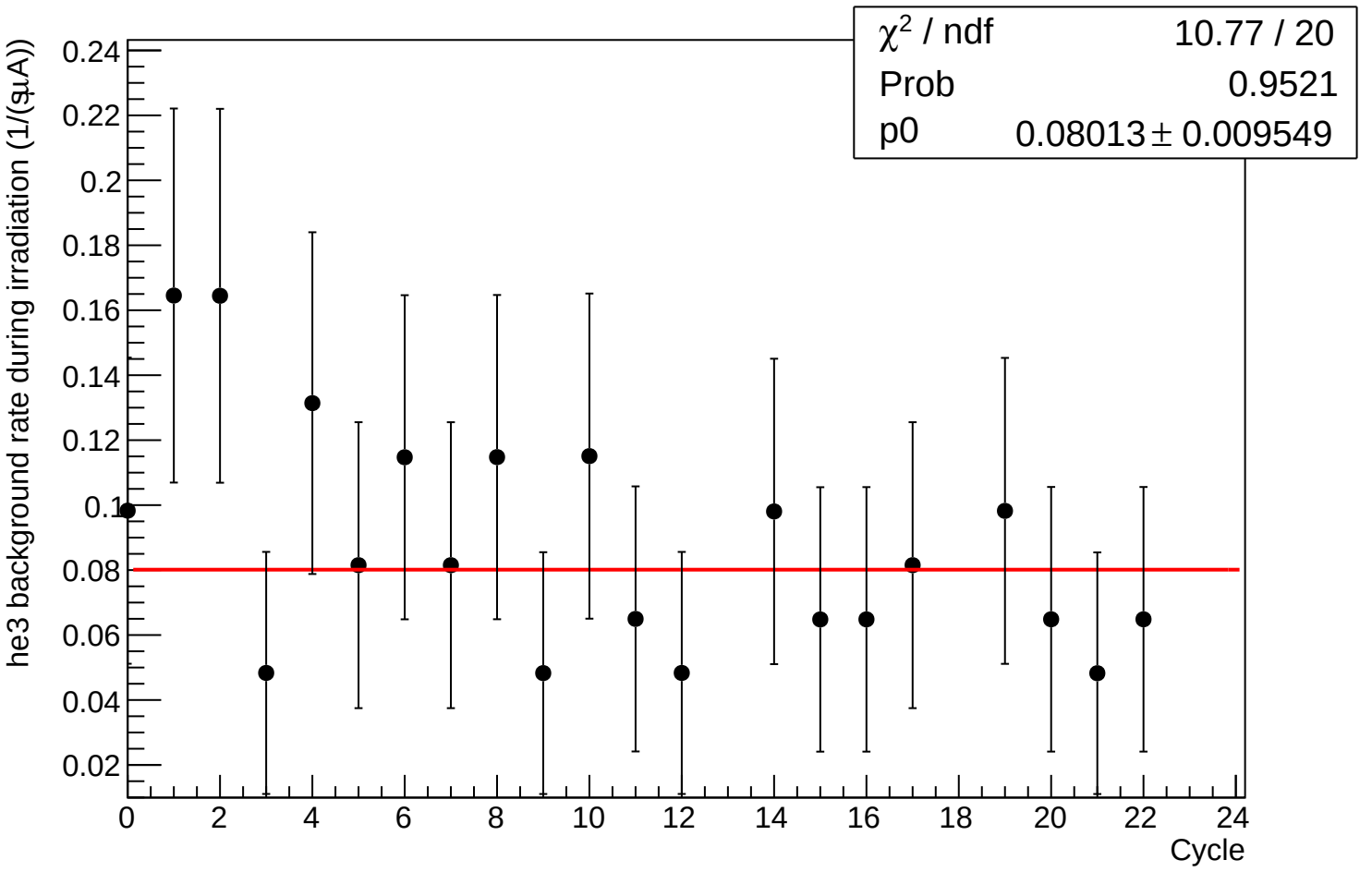

TCN19-120B (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 29.65 / 19
Prob 0.05642
p0 3324 ± 23.46
τ 31.38 ± 0.3307
UCN count (μA⁻¹)
10³
10²
0
20
40
60
80
100
120
Storage time (s)

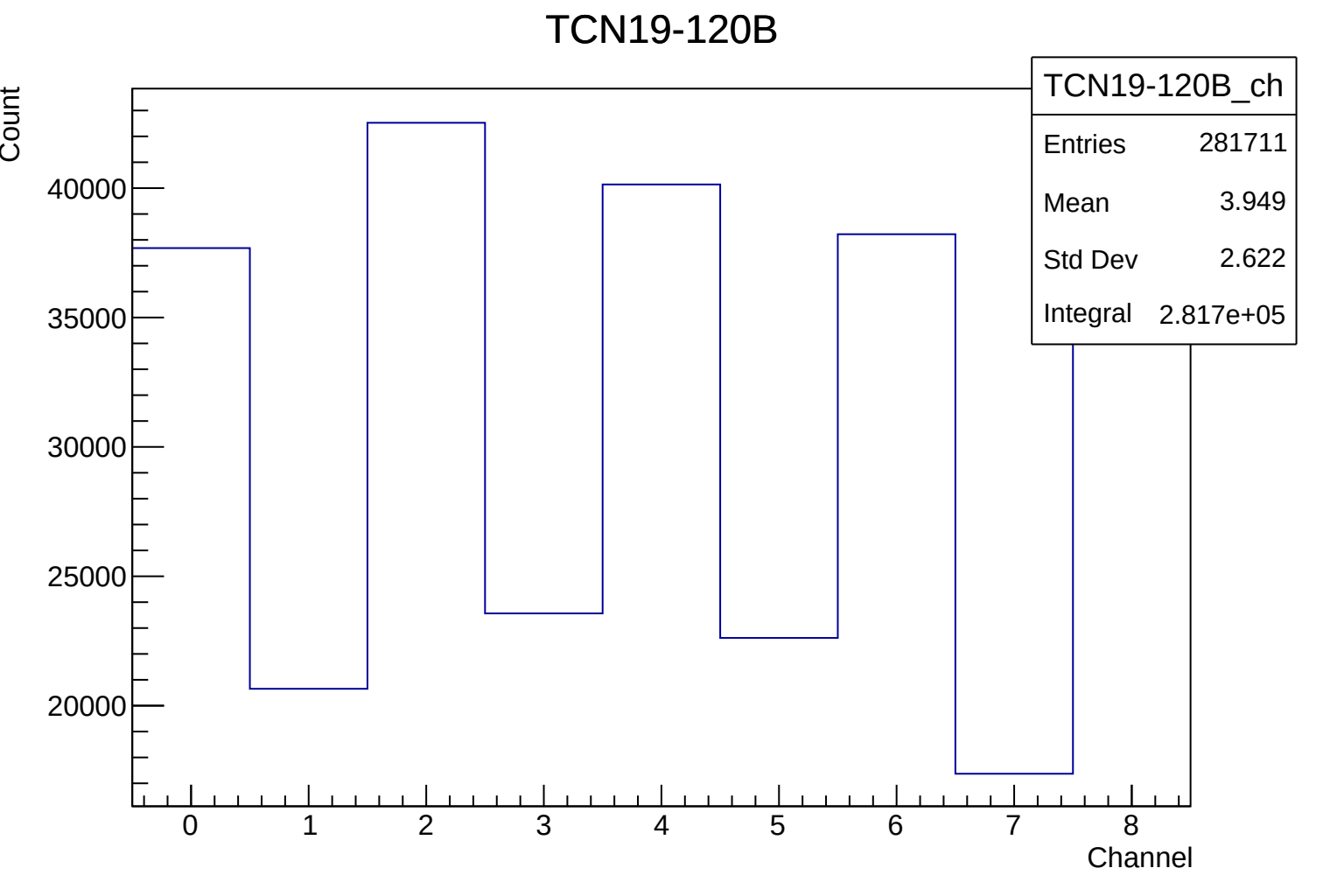

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065
0.98
0.975
0.97
0.965
0.96
0.955
0.95
0.945
0.94
0.935
0
2
4
6
8
10
12
14
16
18
20
22


χ^2 / ndf 8.549 / 20
Prob 0.9876
p0 1.567 ± 0.04807
li6 background rate (1/s)
3.5
3
2.5
2
1.5
1
0.5
0
2
4
6
8
10
12
14
16
18
20
22
24
Cycle


χ² / ndf 24.38 / 20
Prob 0.2261
p0 4.025 ± 0.06663
li6 background rate during irradiation (1/(μA))
Cycle
5
4.5
4
3.5
3
0
2
4
6
8
10
12
14
16
18
20
22
24


χ² / ndf 5.775 / 20
Prob 0.9992
p0 0.02639 ± 0.008746
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 10.77 / 20
Prob 0.9521
p0 0.08013 ± 0.009549
he3 background rate during irradiation (1/(μA))
Cycle
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
2
4
6
8
10
12
14
16
18
20
22
24


TCN19-120B
TCN19-120B_ch
Entries 281711
Mean 3.949
Std Dev 2.622
Integral 2.817e+05
Count
40000
35000
30000
25000
20000
0
1
2
3
4
5
6
7
8
Channel