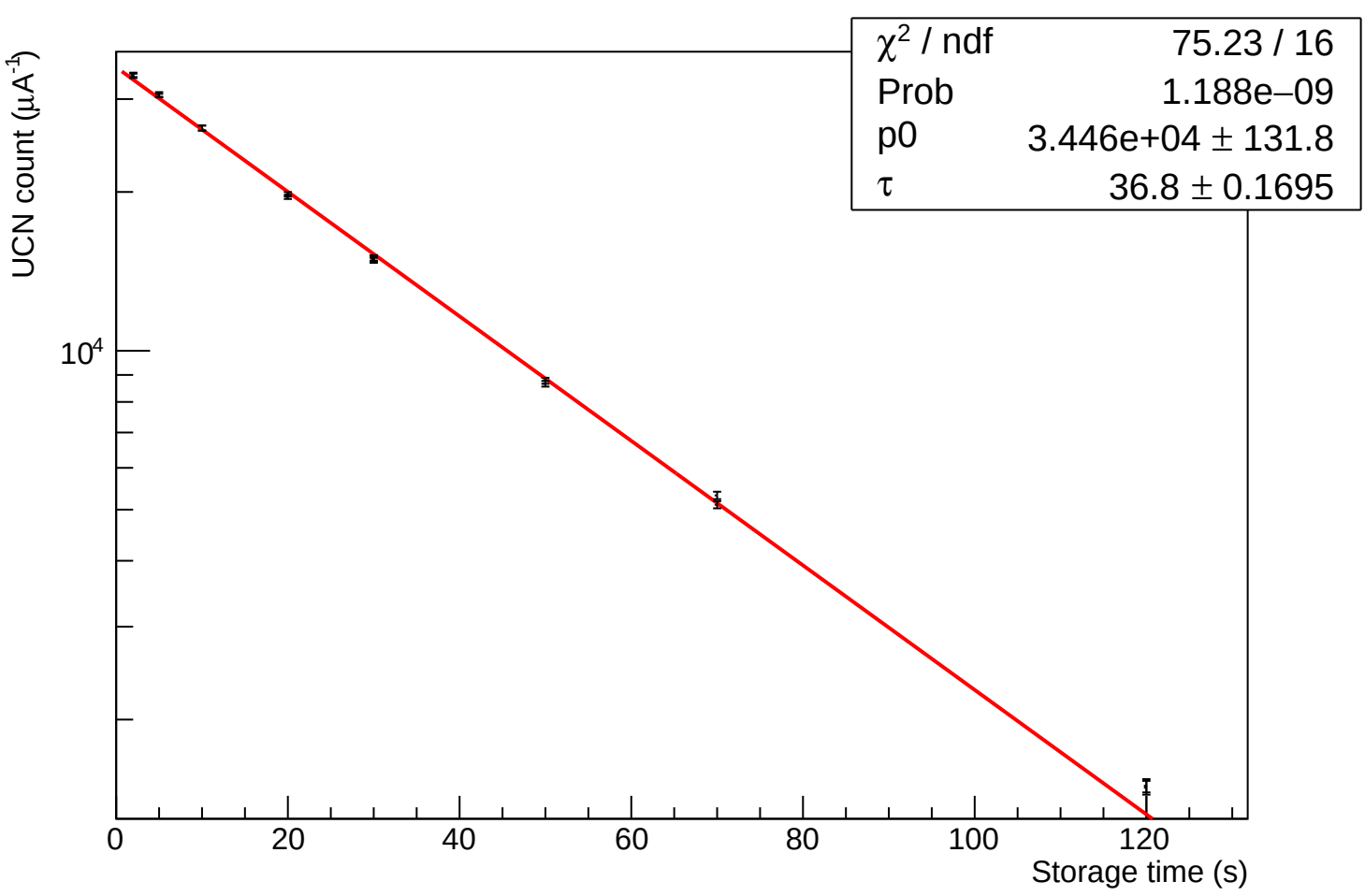
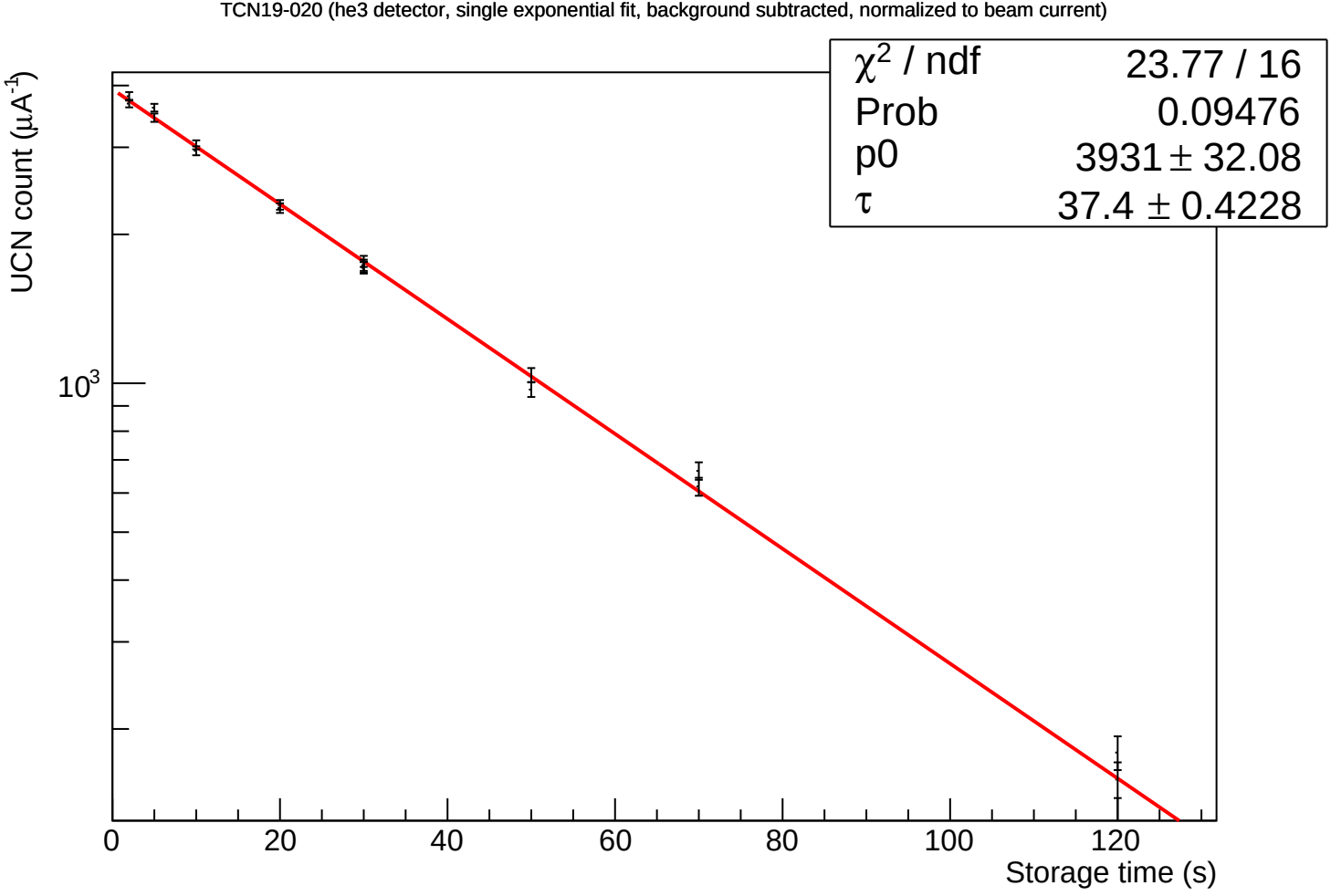
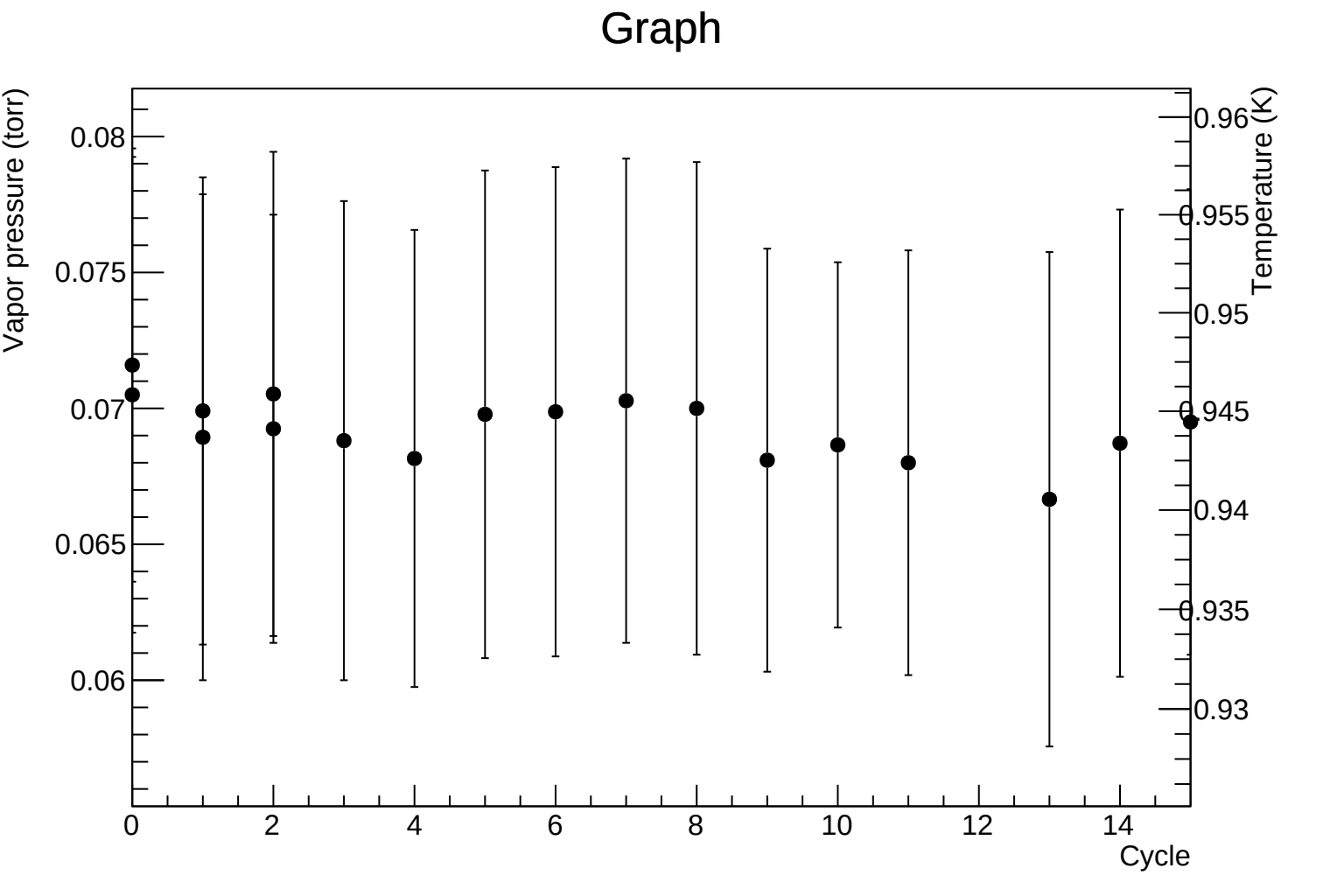
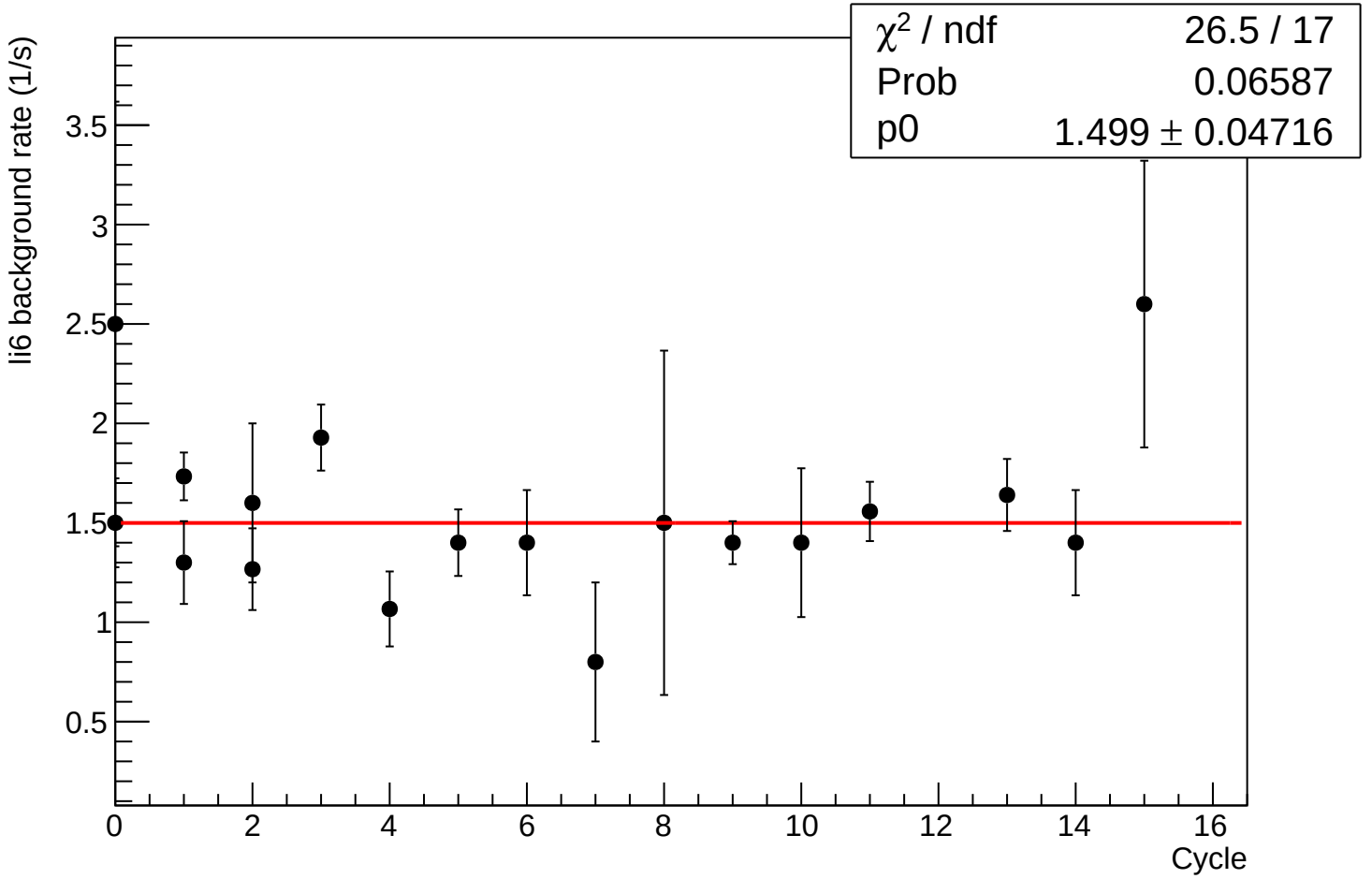
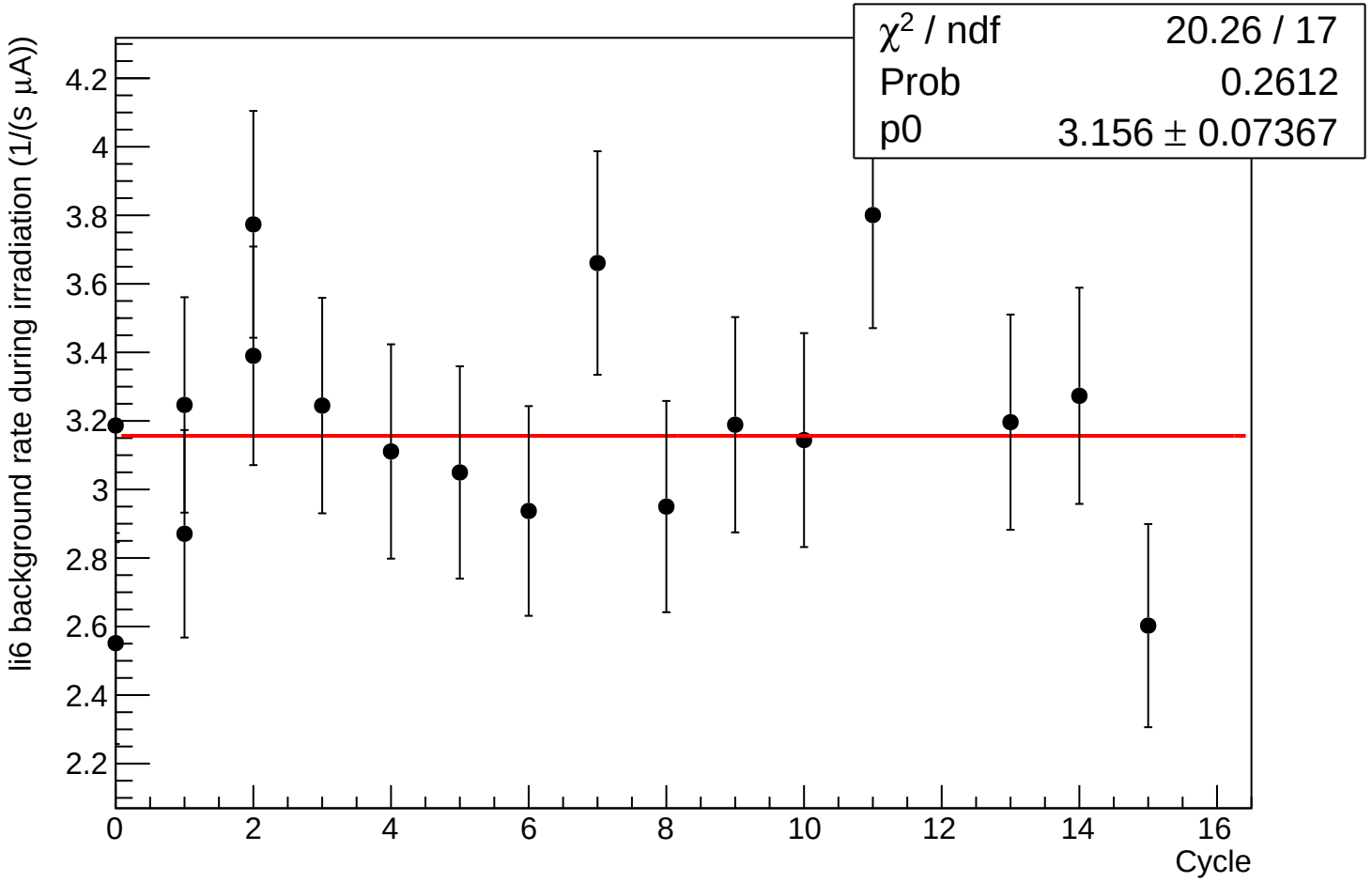
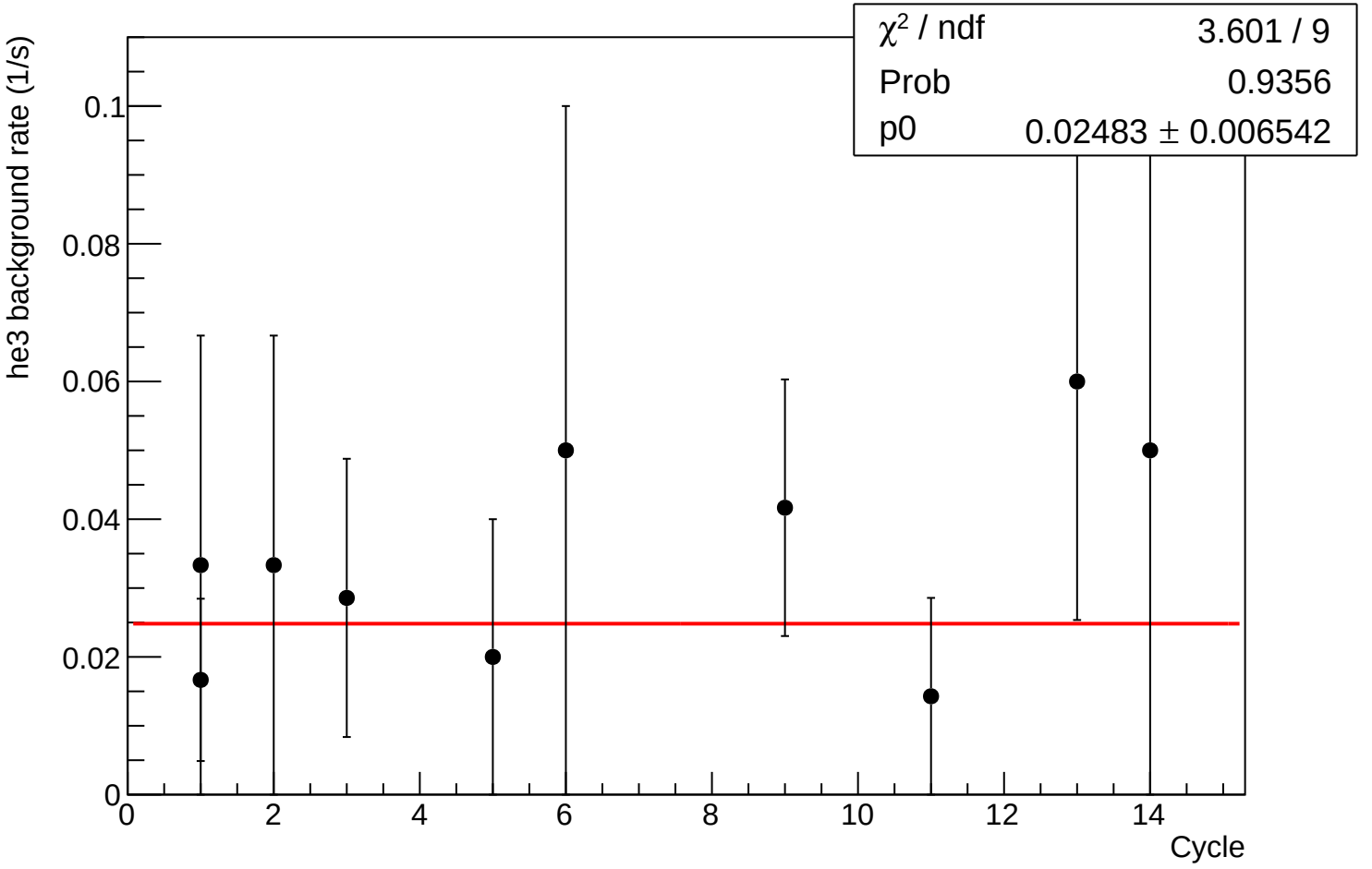

TCN19-020 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 75.23 / 16
Prob 1.188e−09
p0 3.446e+04 ± 131.8
τ 36.8 ± 0.1695
UCN count (μA⁻¹)
10⁴
0
20
40
60
80
100
120
Storage time (s)

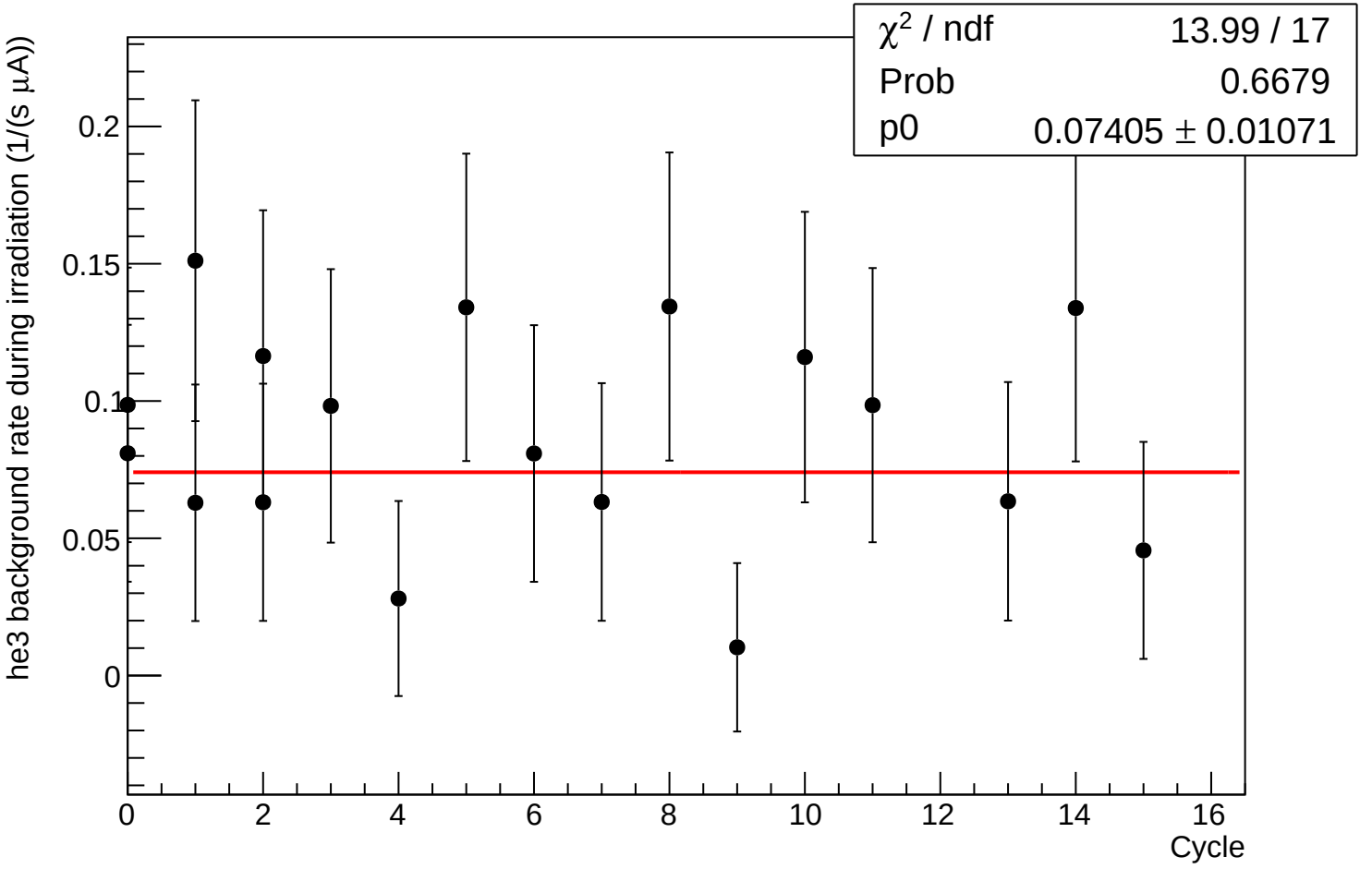

TCN19-020 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 23.77 / 16
Prob 0.09476
p0 3931 ± 32.08
τ 37.4 ± 0.4228
UCN count (μA⁻¹)
10³
0
20
40
60
80
100
120
Storage time (s)

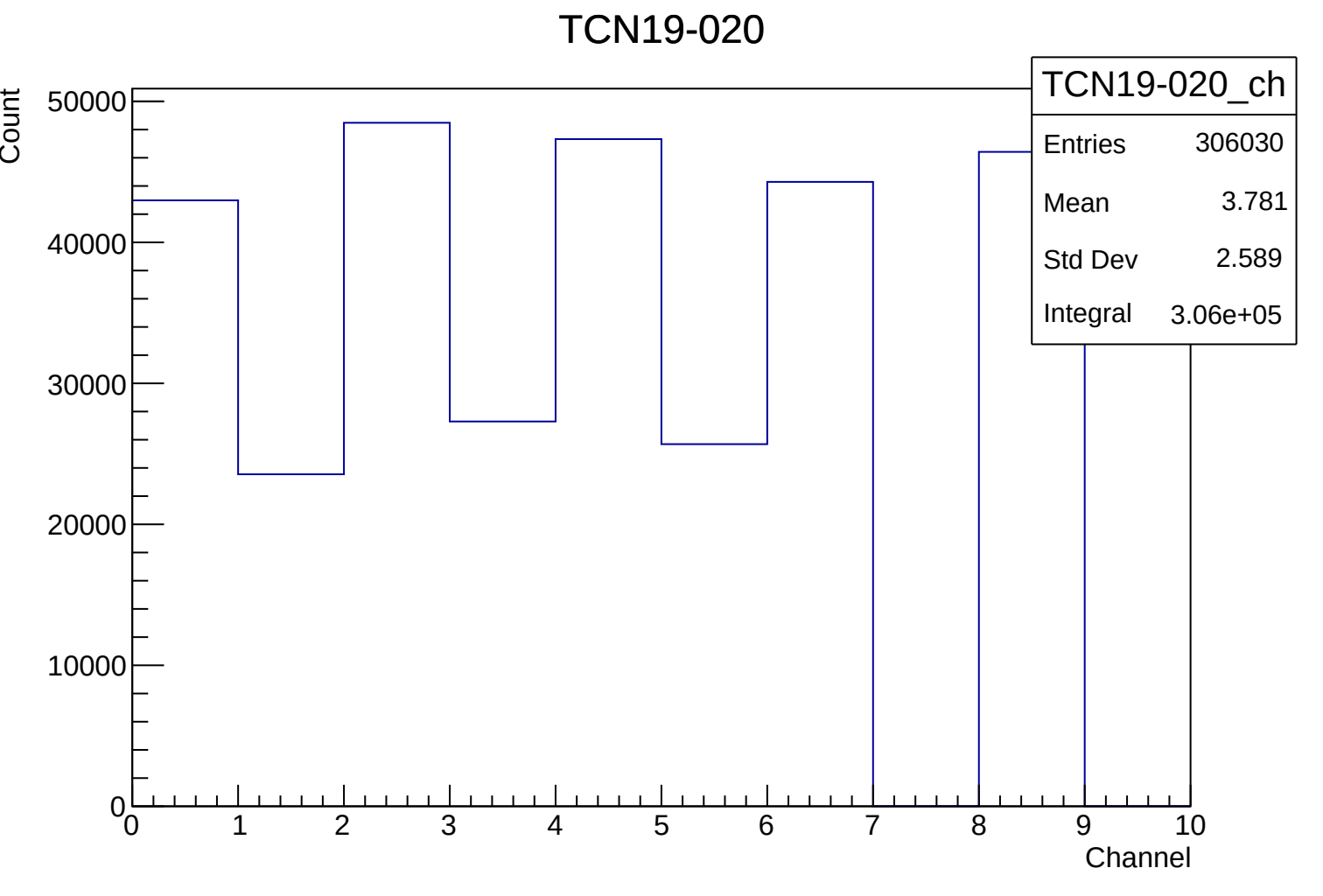

Graph
Vapor pressure (torr)
0.08
0.075
0.07
0.065
0.06
Temperature (K)
0.96
0.955
0.95
0.945
0.94
0.935
0.93
0
2
4
6
8
10
12
14
Cycle


χ² / ndf 26.5 / 17
Prob 0.06587
p0 1.499 ± 0.04716
li6 background rate (1/s)
0.5
1
1.5
2
2.5
3
3.5
0
2
4
6
8
10
12
14
16
Cycle


χ² / ndf 20.26 / 17
Prob 0.2612
p0 3.156 ± 0.07367
li6 background rate during irradiation (1/(s μA))
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
0
2
4
6
8
10
12
14
16
Cycle


χ² / ndf 3.601 / 9
Prob 0.9356
p0 0.02483 ± 0.006542
he3 background rate (1/s)
0.1
0.08
0.06
0.04
0.02
0
0
2
4
6
8
10
12
14
Cycle


χ² / ndf 13.99 / 17
Prob 0.6679
p0 0.07405 ± 0.01071
he3 background rate during irradiation (1/(s μA))
0.2
0.15
0.1
0.05
0
0
2
4
6
8
10
12
14
16
Cycle


TCN19-020
TCN19-020_ch
Entries 306030
Mean 3.781
Std Dev 2.589
Integral 3.06e+05
Count
50000
40000
30000
20000
10000
0
0 1 2 3 4 5 6 7 8 9 10
Channel