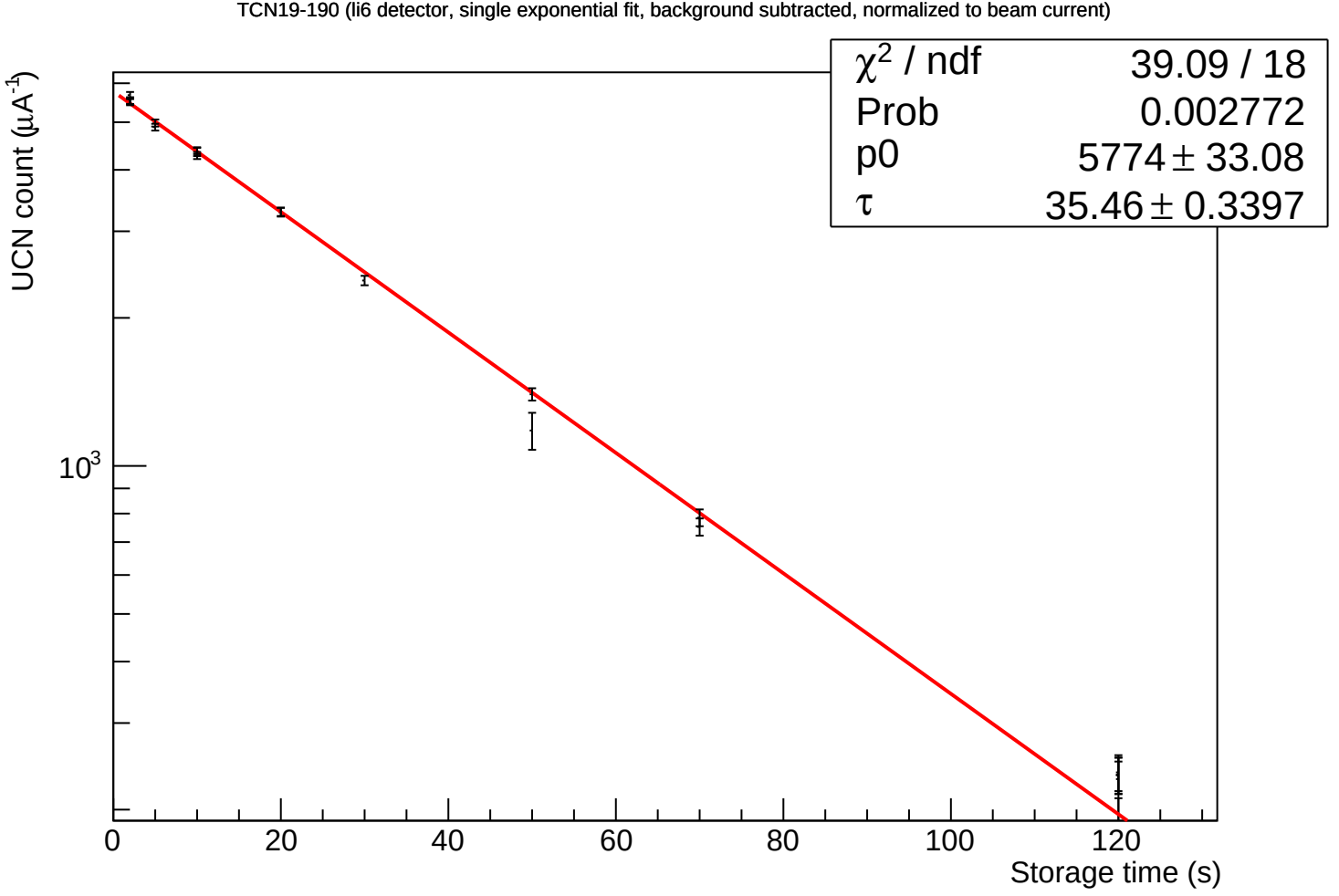
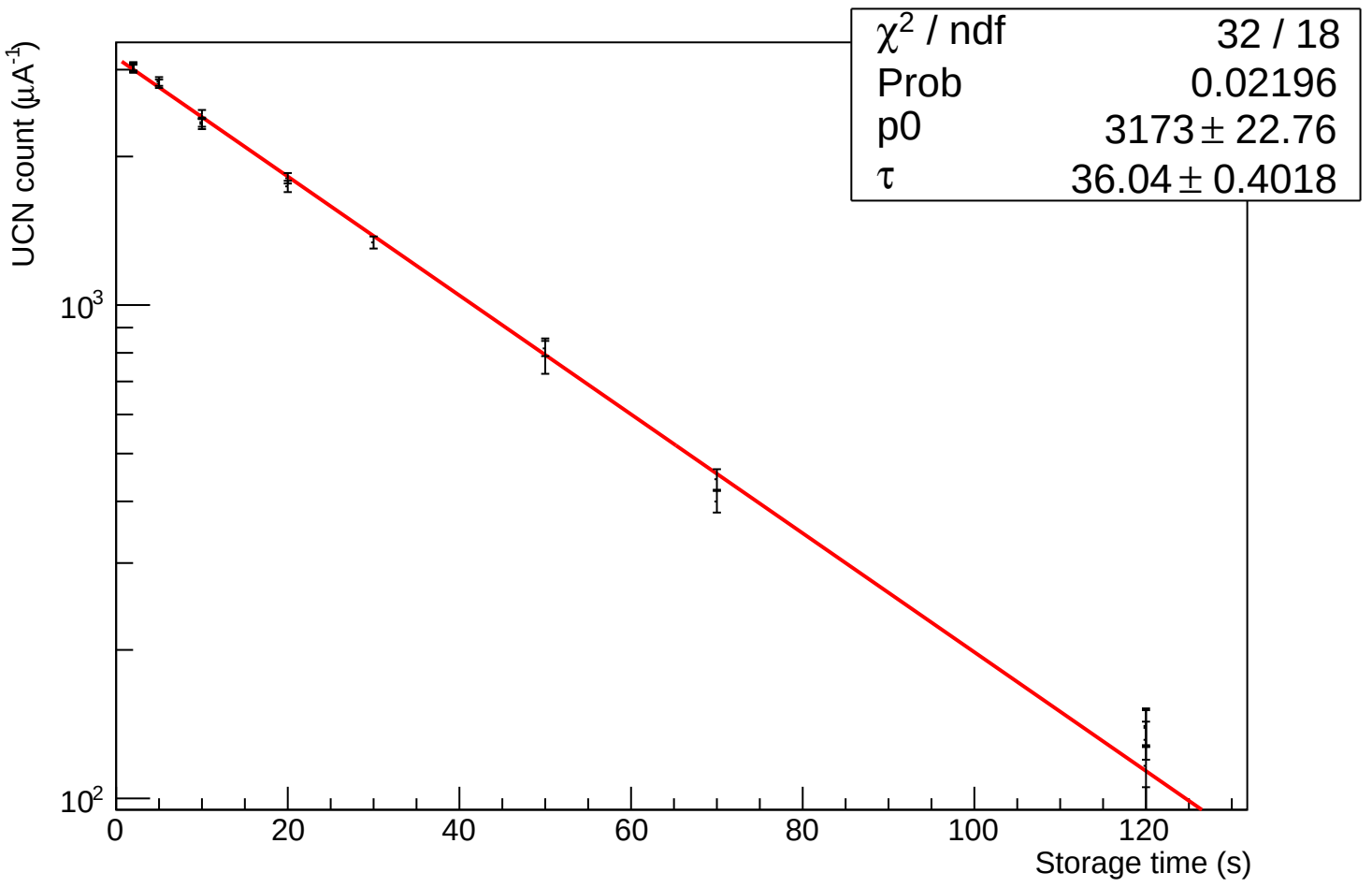
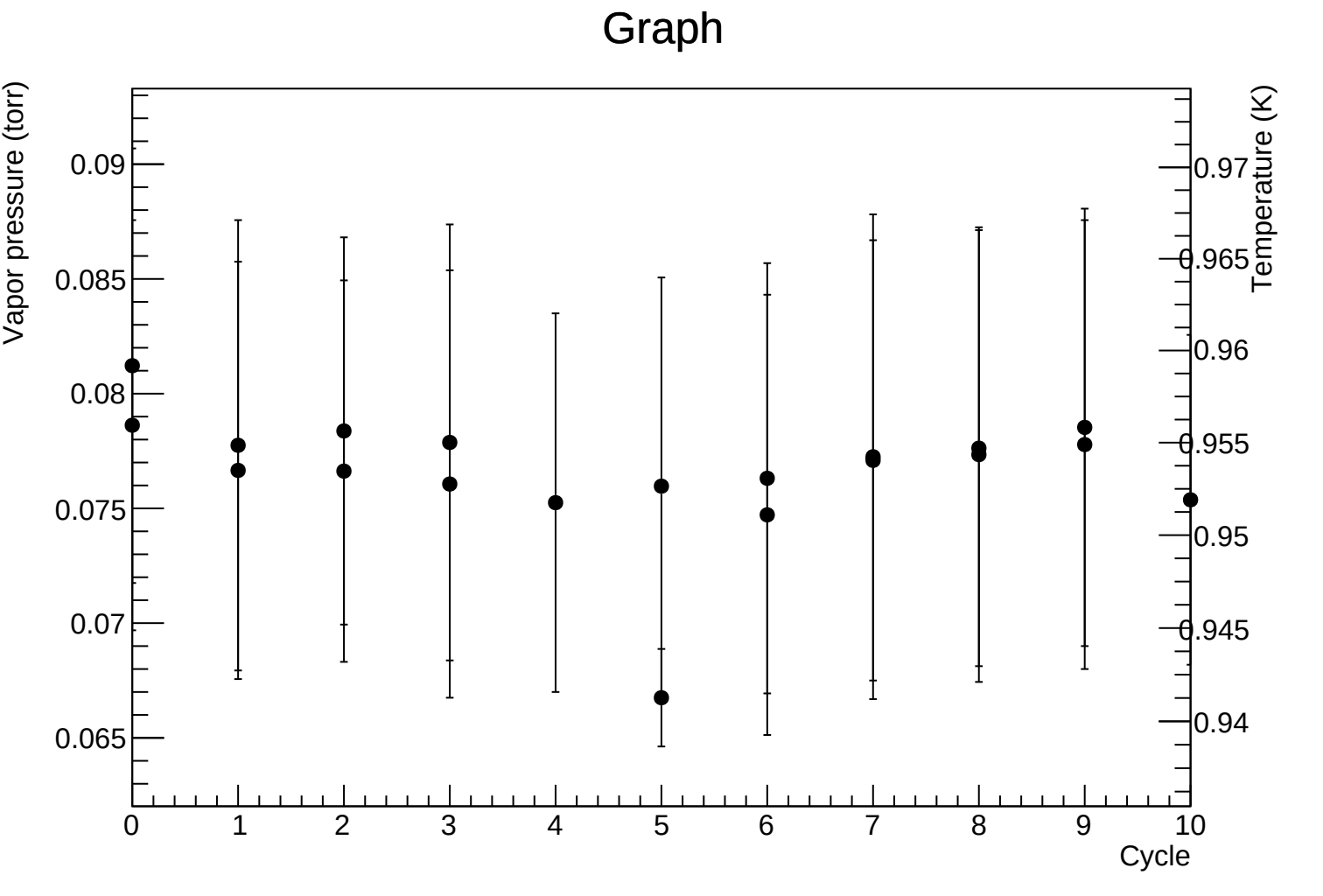
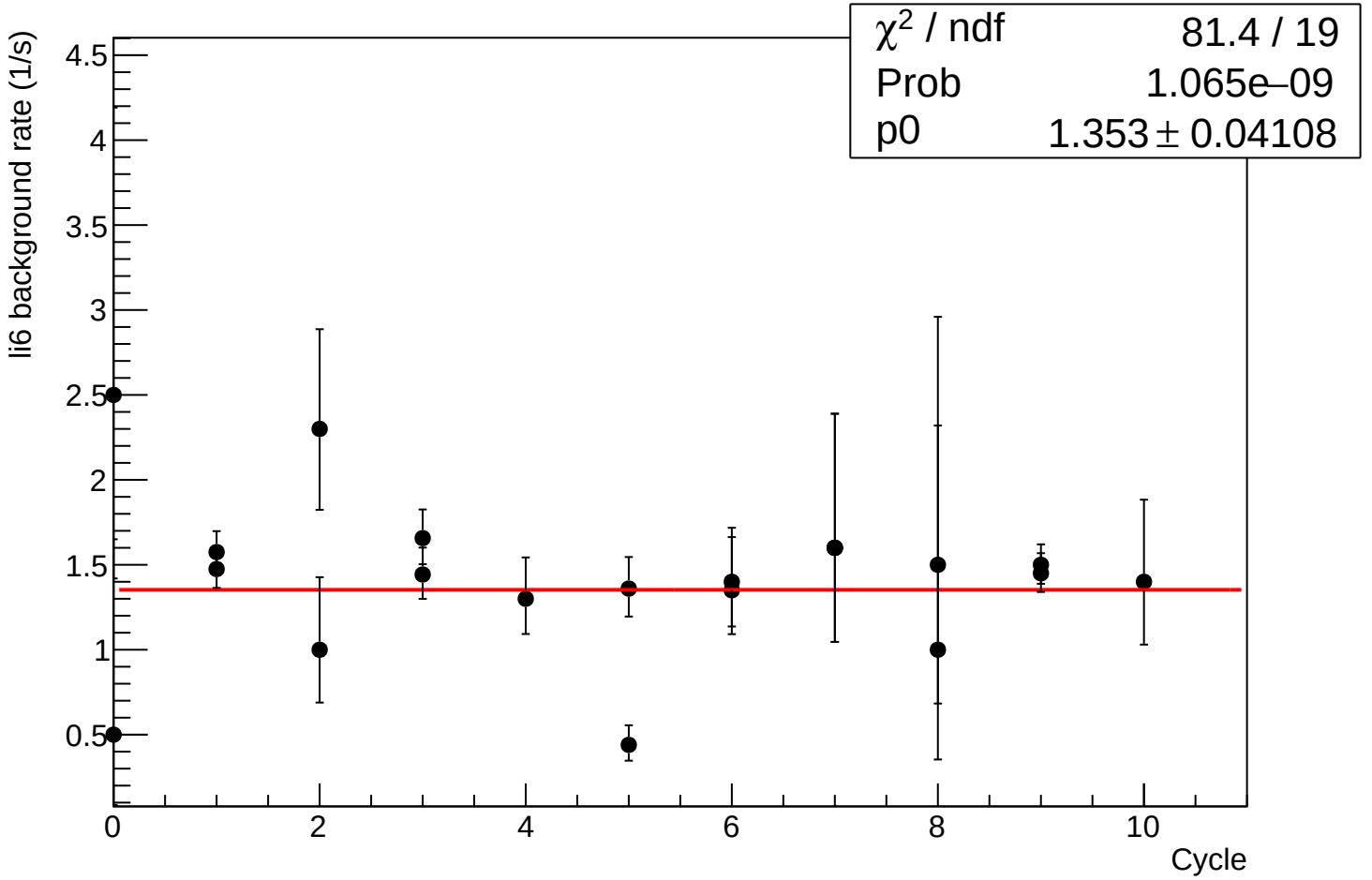
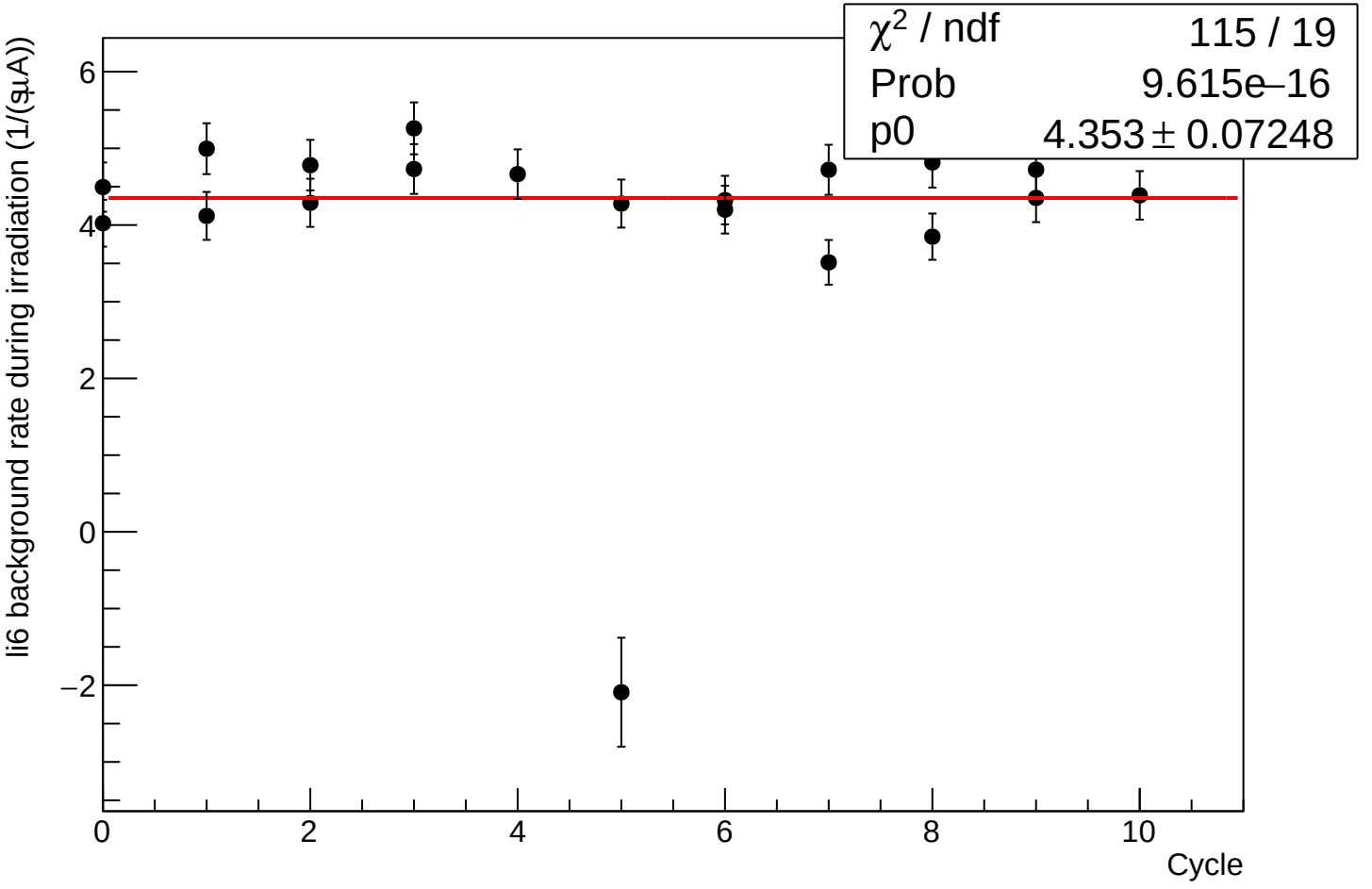
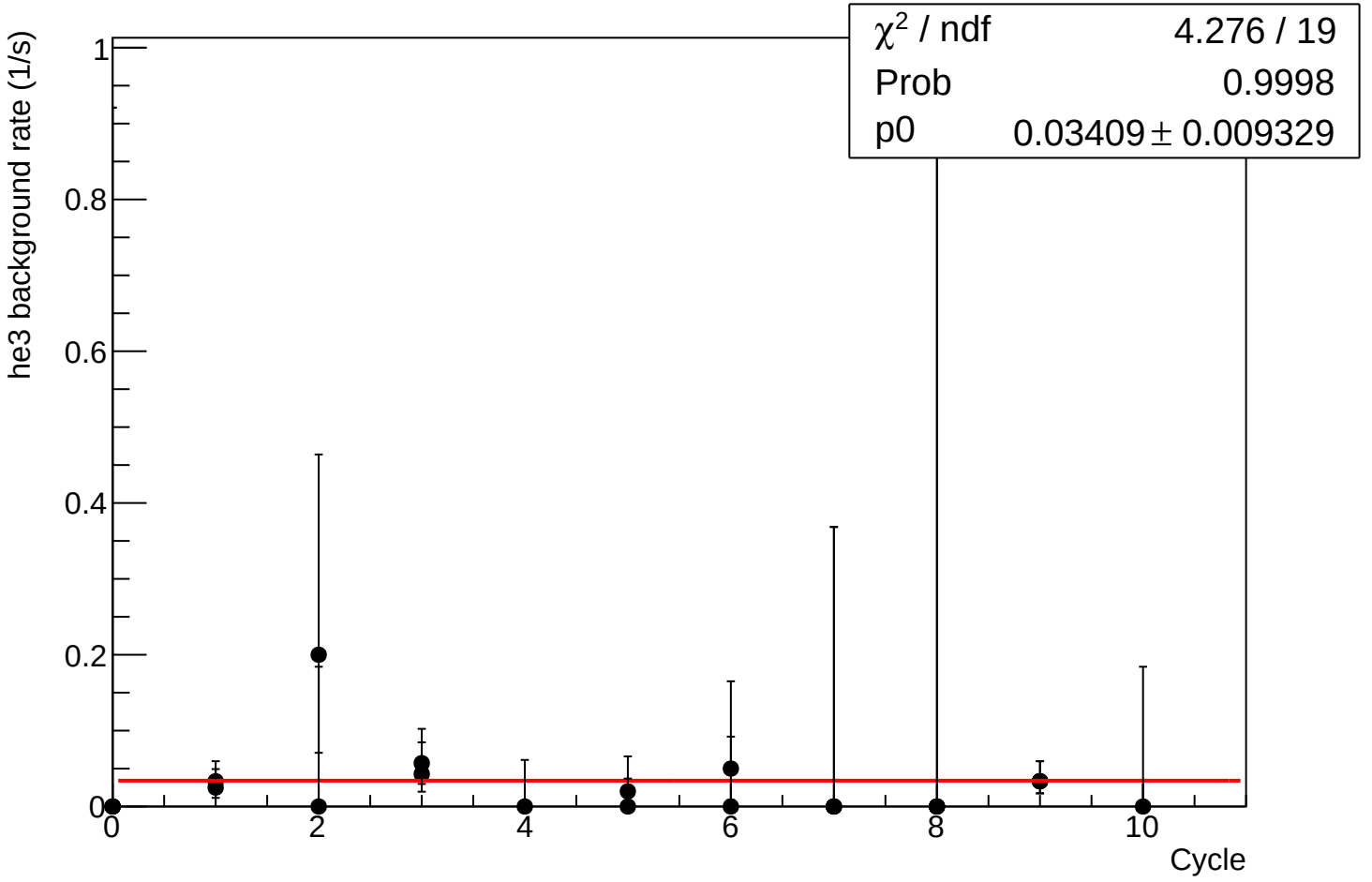

TCN19-190 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 39.09 / 18
Prob 0.002772
p0 5774 ± 33.08
τ 35.46 ± 0.3397
UCN count (μA⁻¹)
10³
0
20
40
60
80
100
120
Storage time (s)

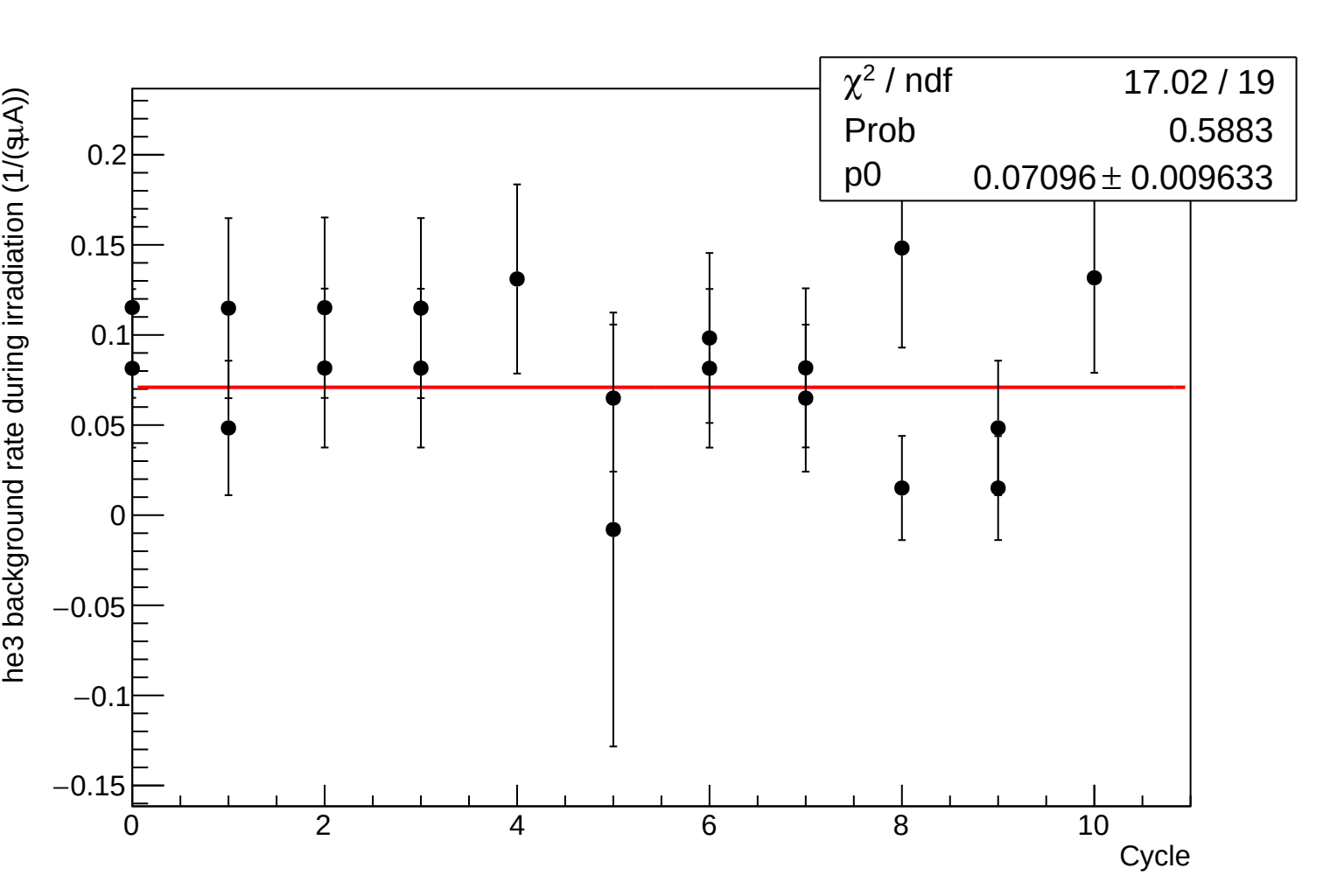

TCN19-190 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 32 / 18
Prob 0.02196
p0 3173 ± 22.76
τ 36.04 ± 0.4018
UCN count (μA⁻¹)
10³
10²
0
20
40
60
80
100
120
Storage time (s)

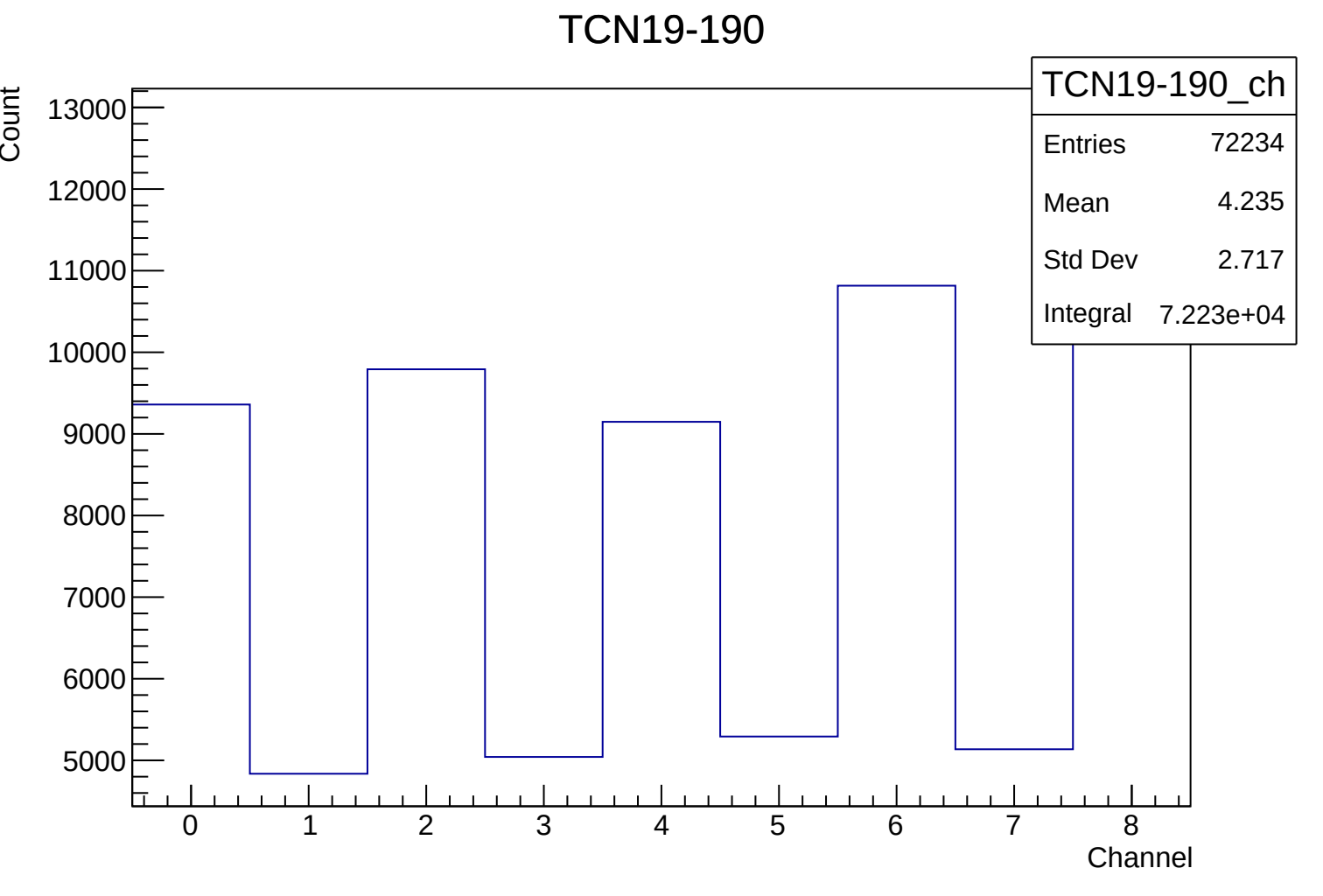

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.09
0.085
0.08
0.075
0.07
0.065
0.97
0.965
0.96
0.955
0.95
0.945
0.94
0
1
2
3
4
5
6
7
8
9
10


li6 background rate (1/s)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
2
4
6
8
10
Cycle
χ² / ndf 81.4 / 19
Prob 1.065e−09
p0 1.353 ± 0.04108


χ² / ndf 115 / 19
Prob 9.615e−16
p0 4.353 ± 0.07248
li6 background rate during irradiation (1/(μA))
Cycle
6
4
2
0
−2
0
2
4
6
8
10


χ² / ndf 4.276 / 19
Prob 0.9998
p0 0.03409 ± 0.009329
he3 background rate (1/s)
Cycle
0
0.2
0.4
0.6
0.8
1
0
2
4
6
8
10


χ² / ndf 17.02 / 19
Prob 0.5883
p0 0.07096 ± 0.009633
he3 background rate during irradiation (1/(μA))
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
0
2
4
6
8
10
Cycle


TCN19-190
TCN19-190_ch
Entries 72234
Mean 4.235
Std Dev 2.717
Integral 7.223e+04
Count
13000
12000
11000
10000
9000
8000
7000
6000
5000
0
1
2
3
4
5
6
7
8
Channel