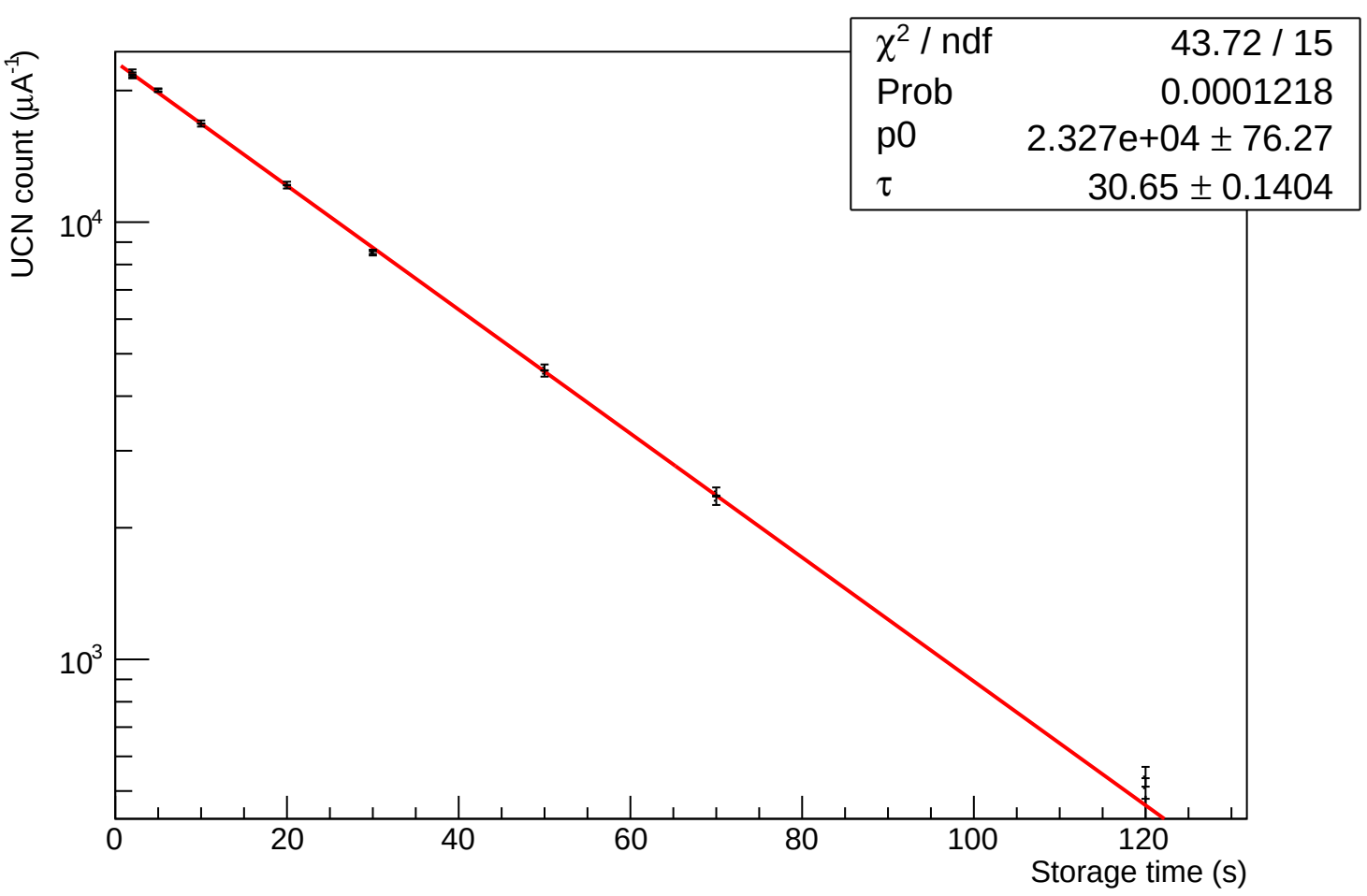
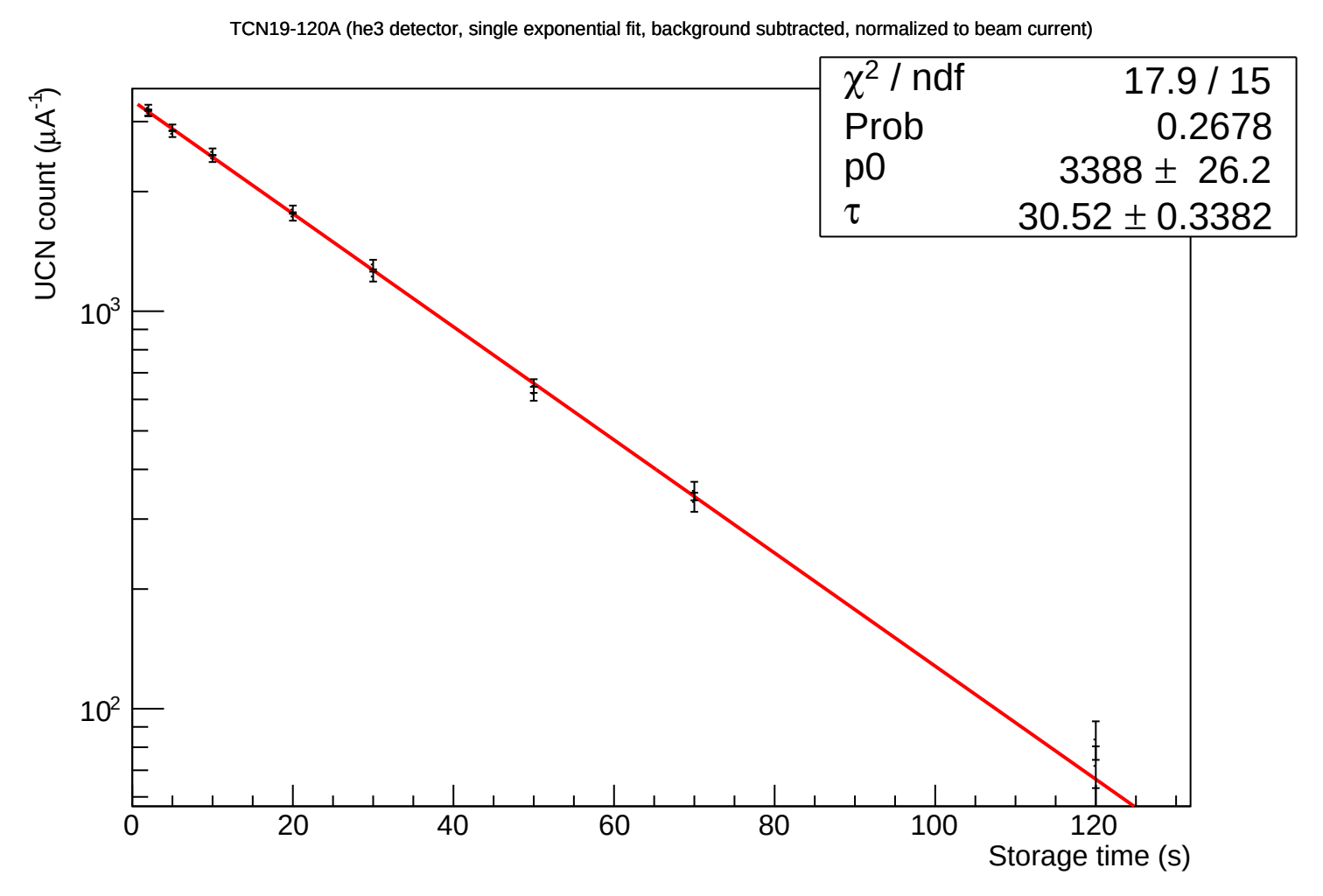
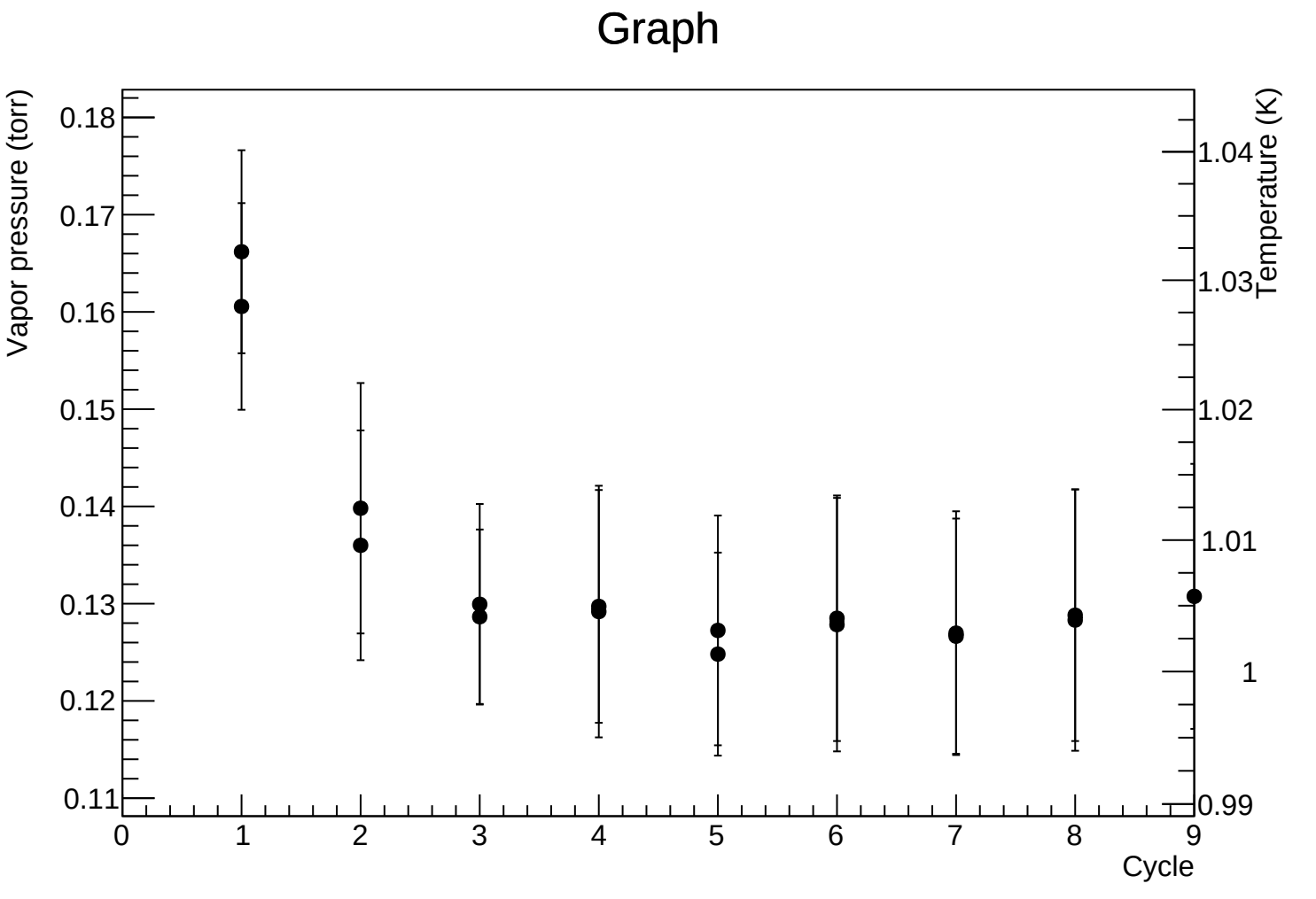
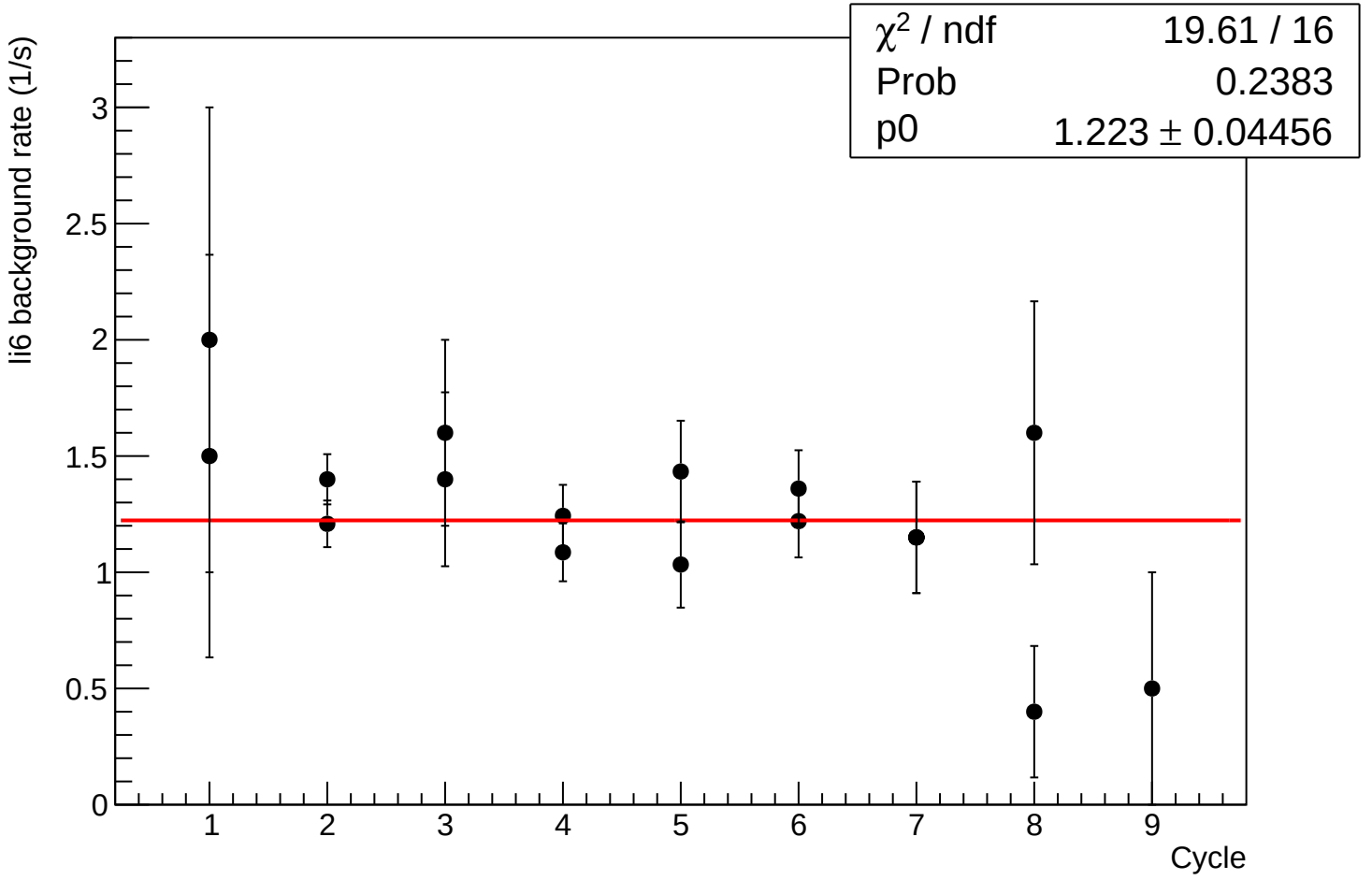
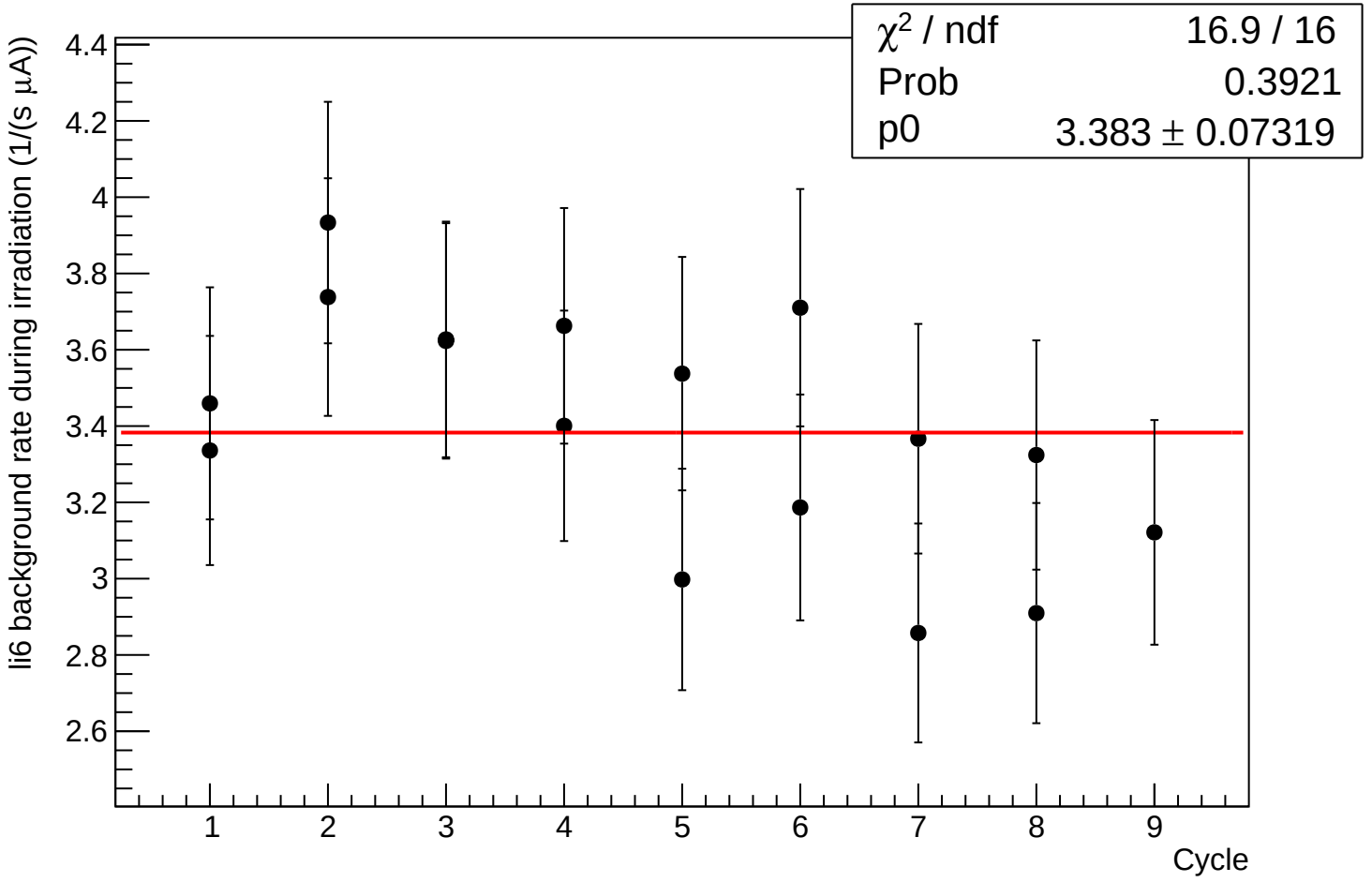
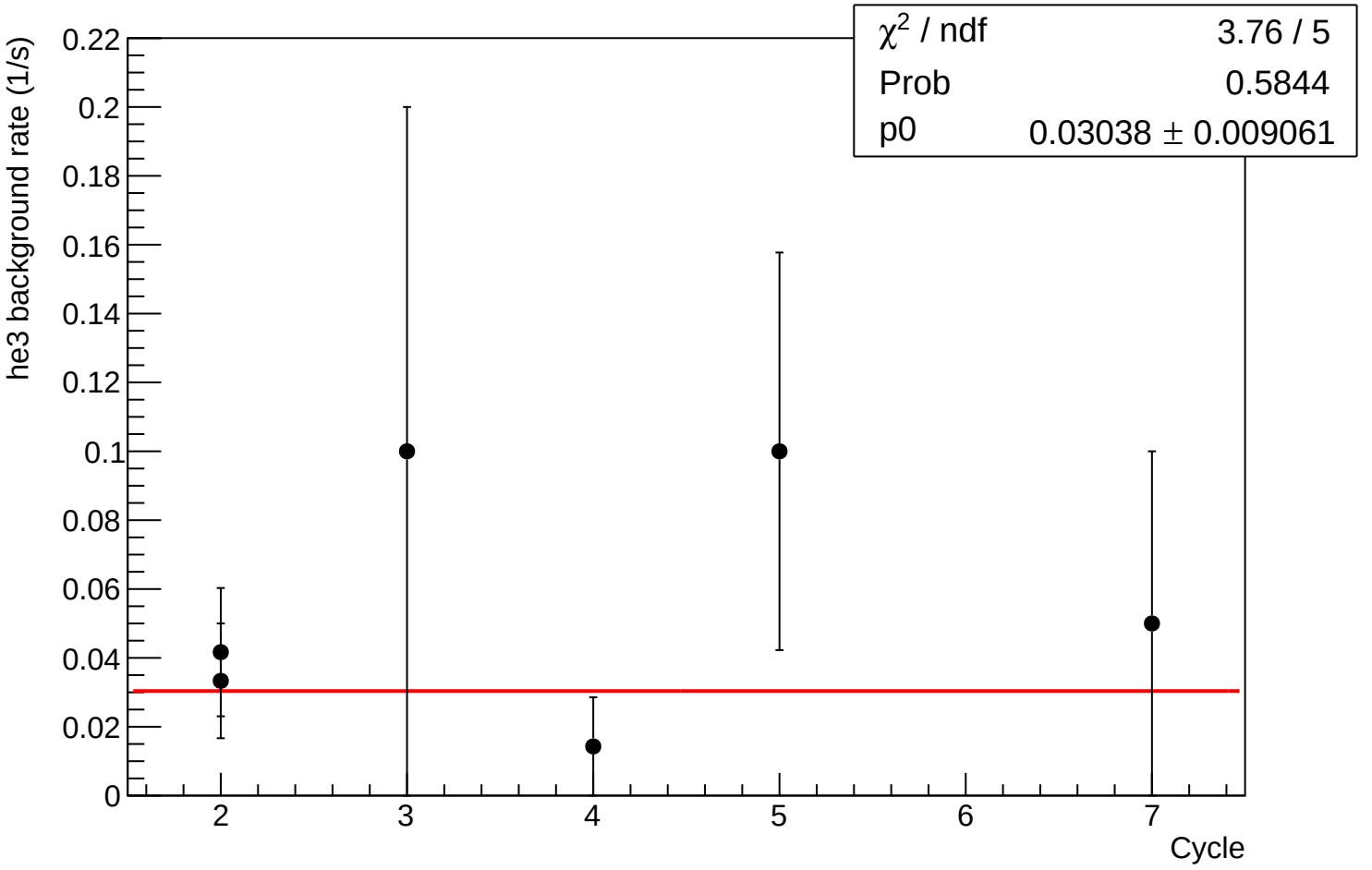

TCN19-120A (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 43.72 / 15
Prob 0.0001218
p0 2.327e+04 ± 76.27
τ 30.65 ± 0.1404
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)

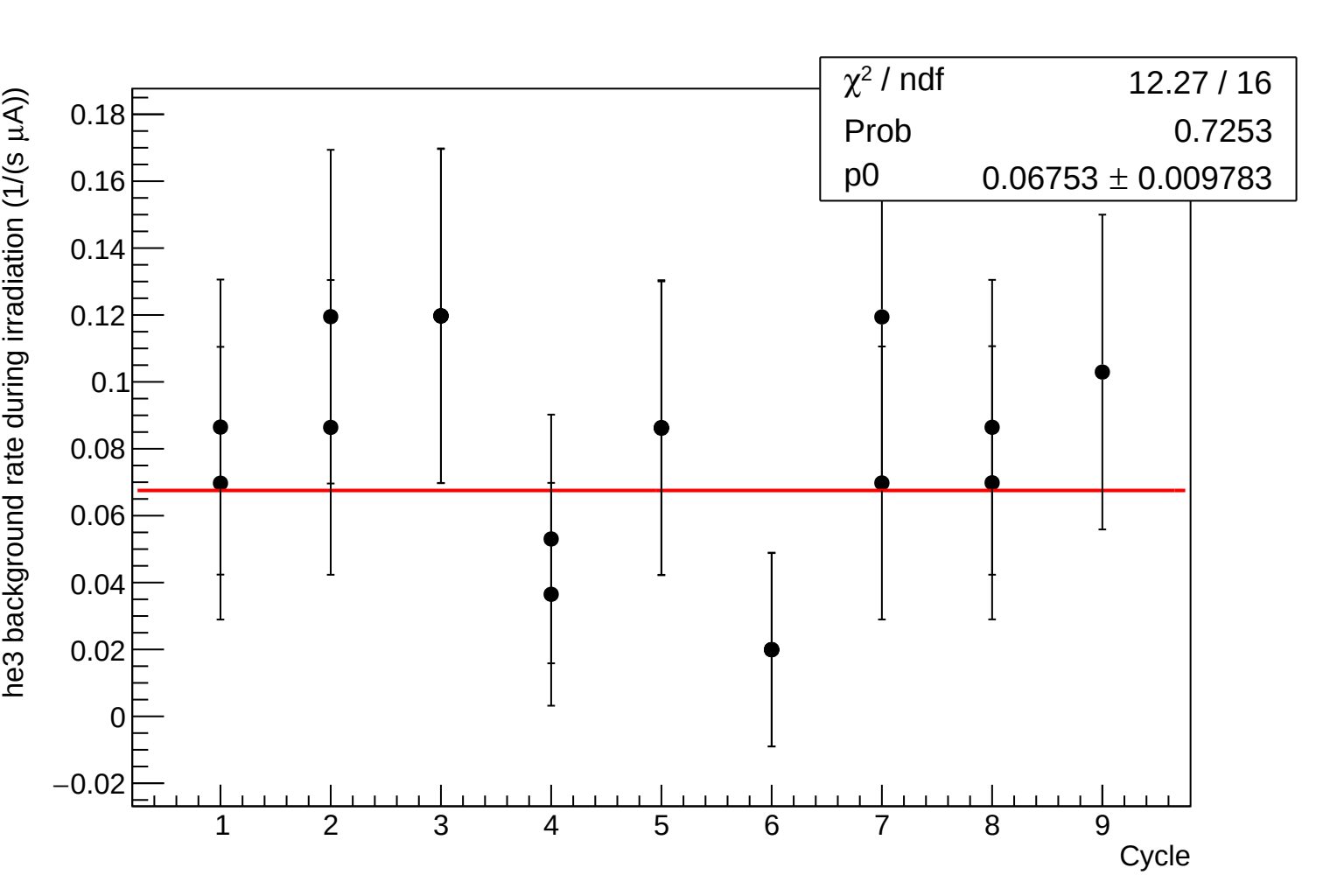

TCN19-120A (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ2 / ndf 17.9 / 15
Prob 0.2678
p0 3388 ± 26.2
τ 30.52 ± 0.3382
UCN count (μA-1)
10^3
10^2
0
20
40
60
80
100
120
Storage time (s)

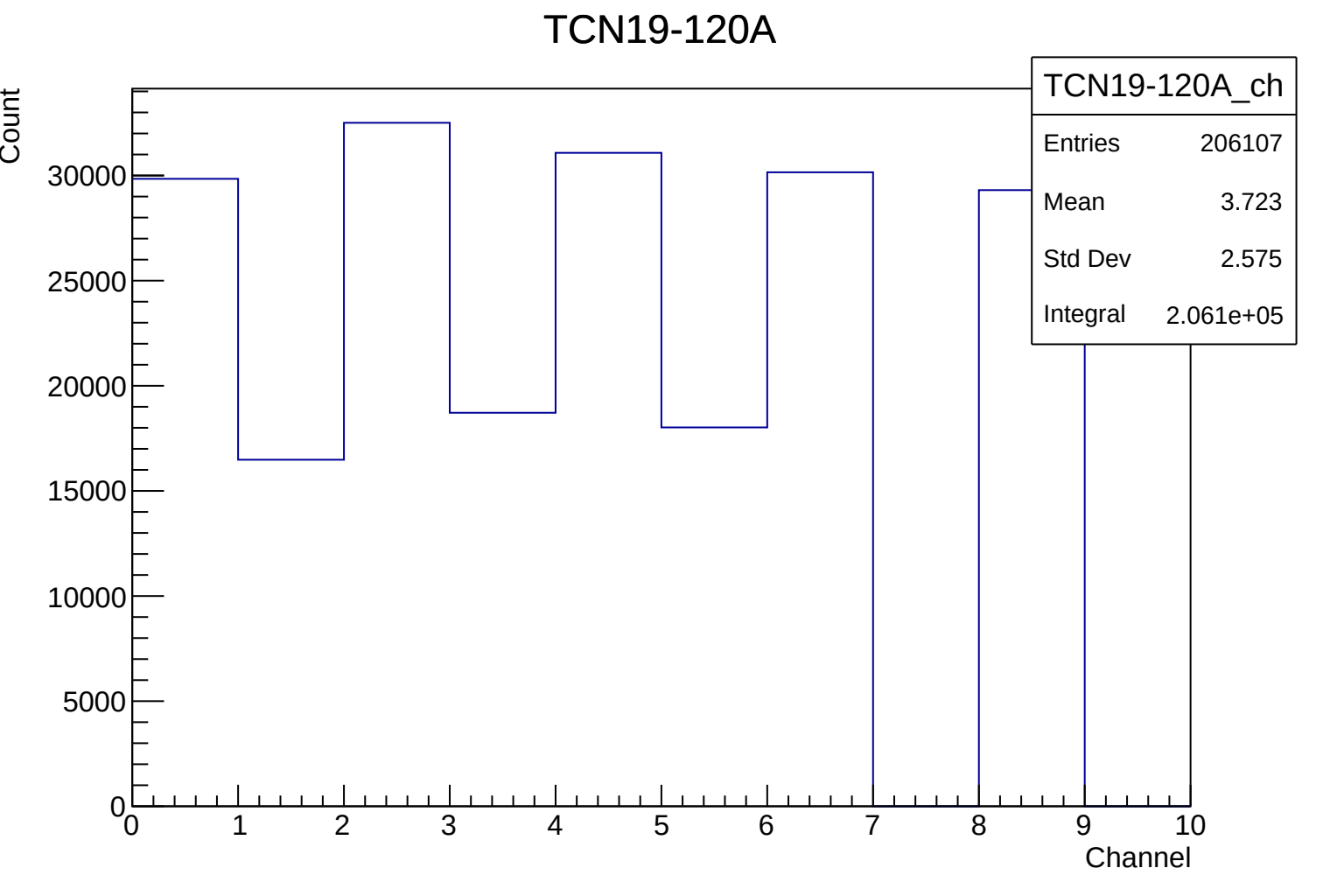

Graph
Vapor pressure (torr)
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
Temperature (K)
1.04
1.03
1.02
1.01
1
0.99
0
1
2
3
4
5
6
7
8
9
Cycle


χ^2 / ndf 19.61 / 16
Prob 0.2383
p0 1.223 ± 0.04456
li6 background rate (1/s)
0
0.5
1
1.5
2
2.5
3
1
2
3
4
5
6
7
8
9
Cycle


χ^2 / ndf 16.9 / 16
Prob 0.3921
p0 3.383 ± 0.07319
li6 background rate during irradiation (1/(s μA))
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
1
2
3
4
5
6
7
8
9
Cycle


χ² / ndf 3.76 / 5
Prob 0.5844
p0 0.03038 ± 0.009061
he3 background rate (1/s)
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
2
3
4
5
6
7
Cycle


χ² / ndf 12.27 / 16
Prob 0.7253
p0 0.06753 ± 0.009783
he3 background rate during irradiation (1/(s μA))
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
1
2
3
4
5
6
7
8
9
Cycle


TCN19-120A
Count
30000
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
6
7
8
9
10
Channel
TCN19-120A_ch
Entries 206107
Mean 3.723
Std Dev 2.575
Integral 2.061e+05