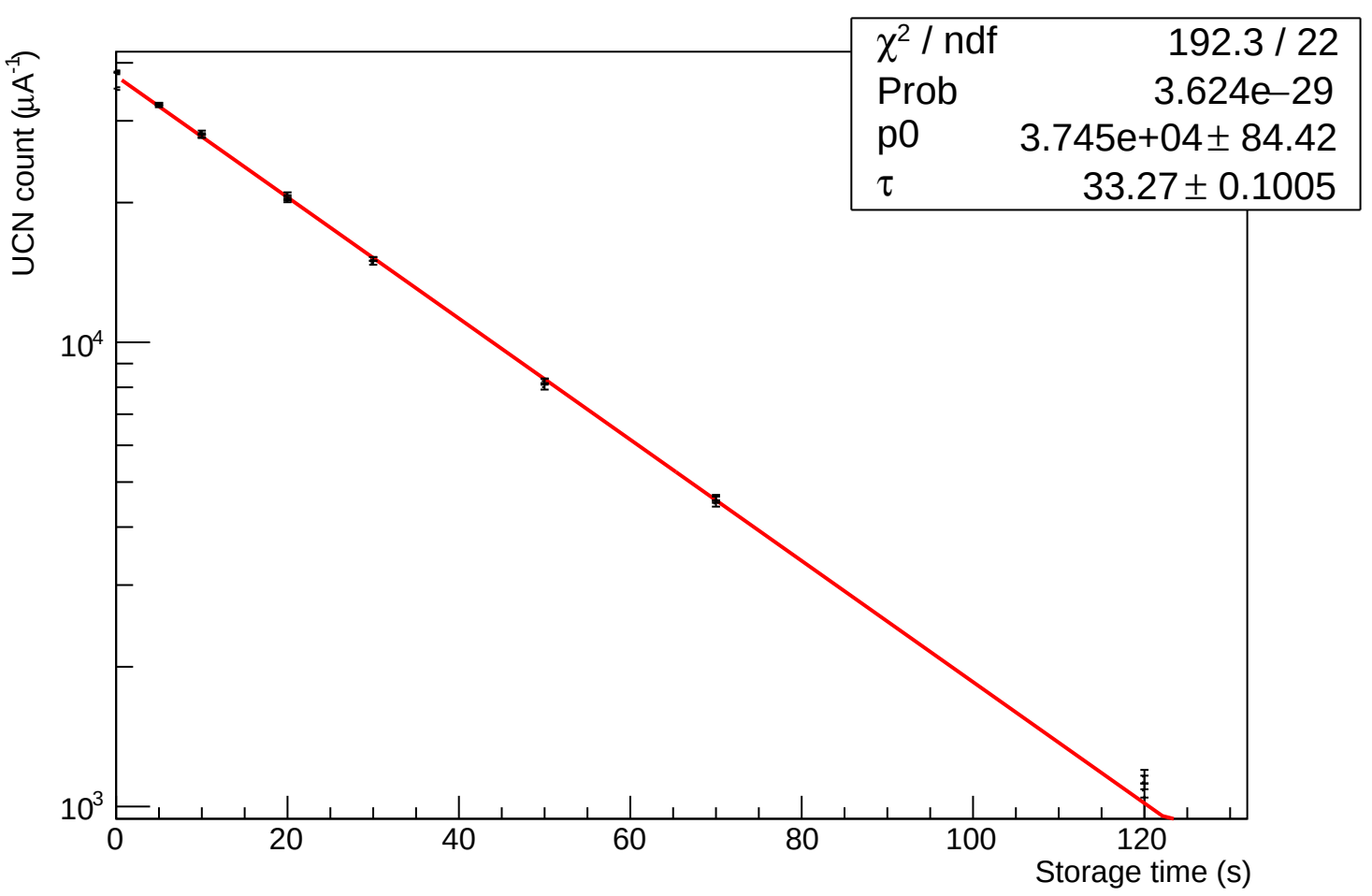
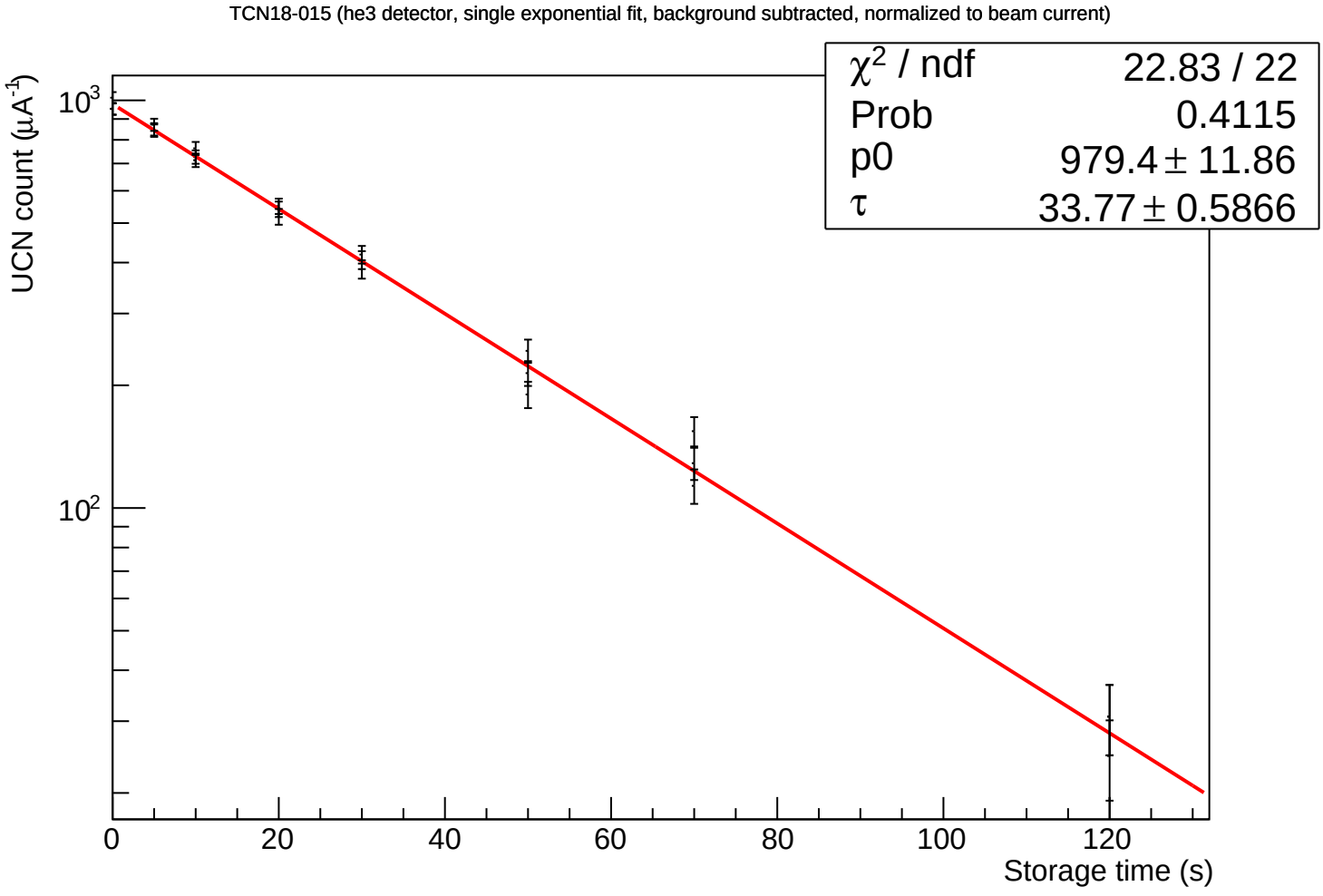
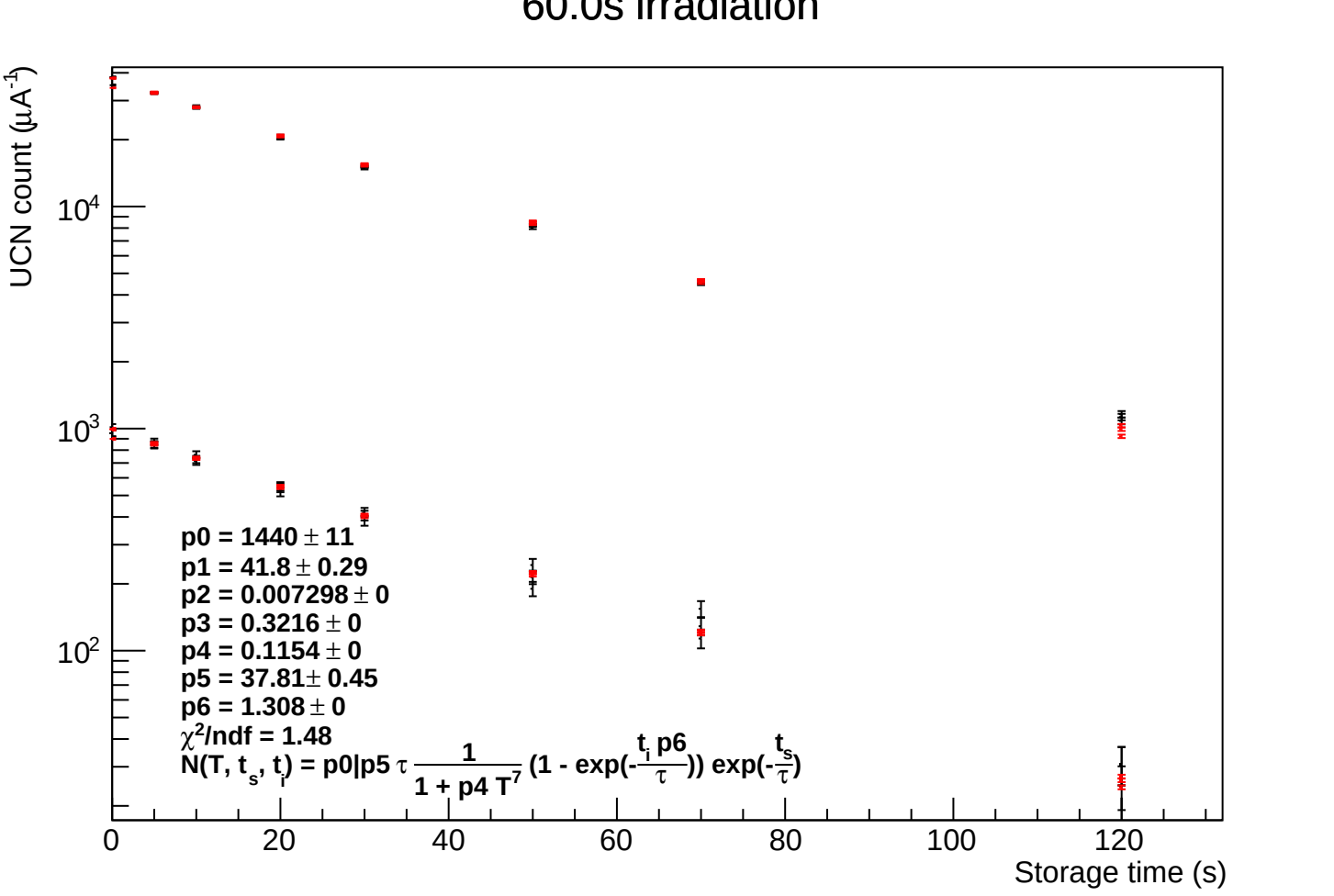
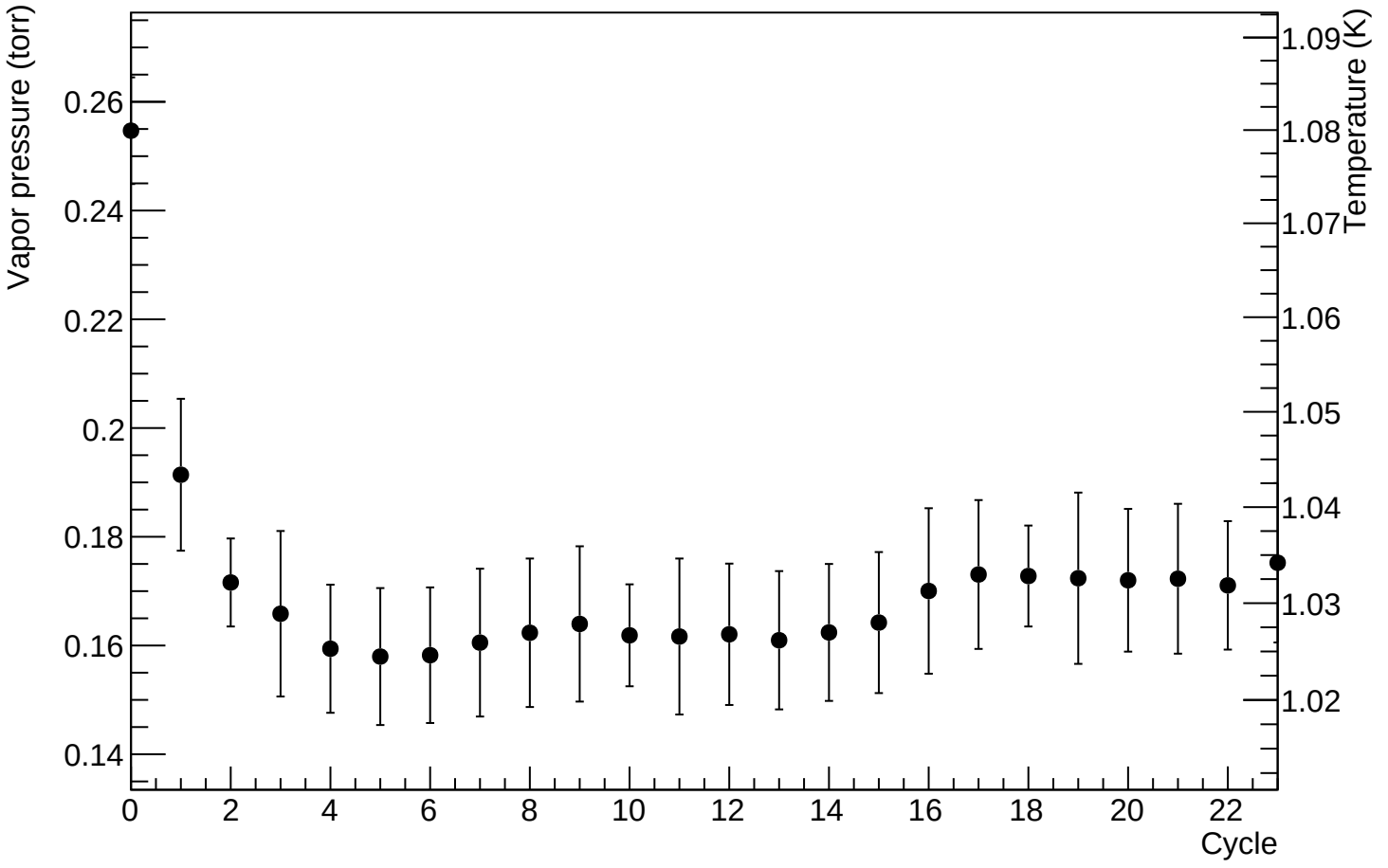
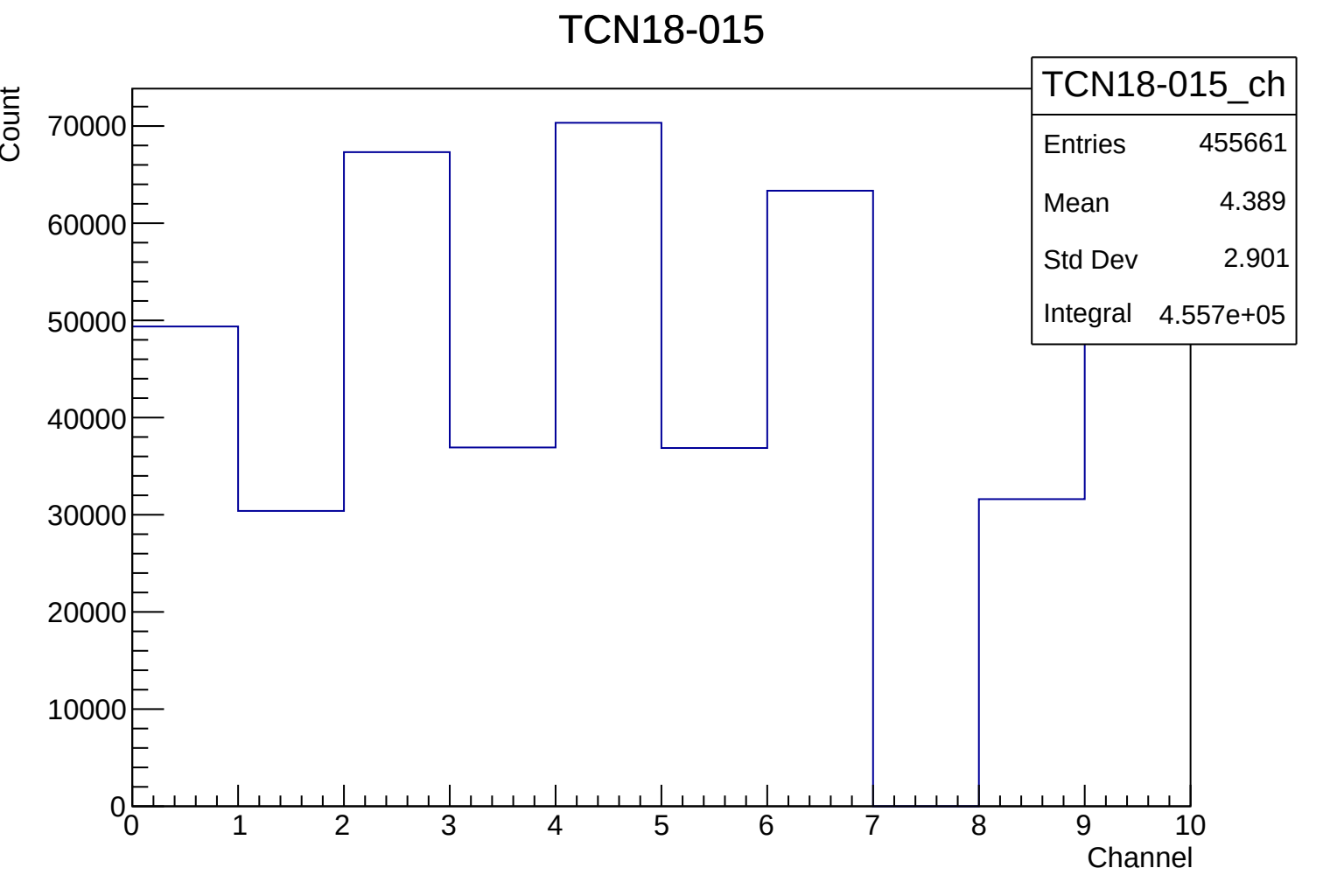

TCN18-015 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 192.3 / 22
Prob 3.624e–29
p0 3.745e+04 ± 84.42
τ 33.27 ± 0.1005
UCN count (μA⁻¹)
10⁴
10³
0
20
40
60
80
100
120
Storage time (s)


TCN18-015 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 22.83 / 22
Prob 0.4115
p0 979.4 ± 11.86
τ 33.77 ± 0.5866
UCN count (μA⁻¹)
10³
10²
0
20
40
60
80
100
120
Storage time (s)


60.0s irradiation
UCN count (μA-1)
10^4
10^3
10^2
0
20
40
60
80
100
120
Storage time (s)
p0 = 1440 ± 11
p1 = 41.8 ± 0.29
p2 = 0.007298 ± 0
p3 = 0.3216 ± 0
p4 = 0.1154 ± 0
p5 = 37.81 ± 0.45
p6 = 1.308 ± 0
χ2/ndf = 1.48
N(T, ts, ti) = p0|p5 τ 1 / (1 + p4 T7) (1 - exp(-ti p6 / τ)) exp(-ts / τ)


Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.26
0.24
0.22
0.2
0.18
0.16
0.14
1.09
1.08
1.07
1.06
1.05
1.04
1.03
1.02
0
2
4
6
8
10
12
14
16
18
20
22


TCN18-015
TCN18-015_ch
Entries 455661
Mean 4.389
Std Dev 2.901
Integral 4.557e+05
Count
70000
60000
50000
40000
30000
20000
10000
0
0 1 2 3 4 5 6 7 8 9 10
Channel