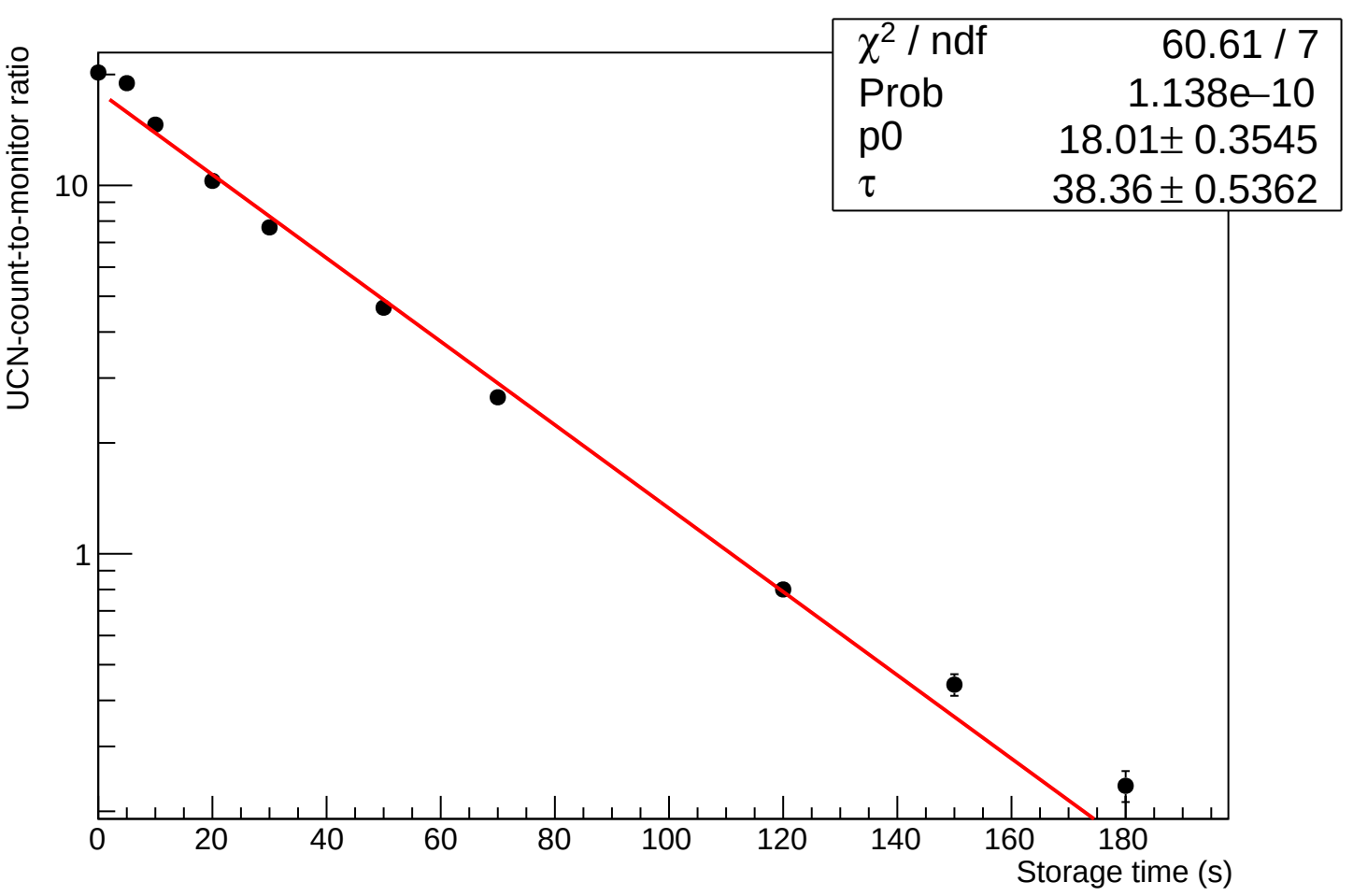
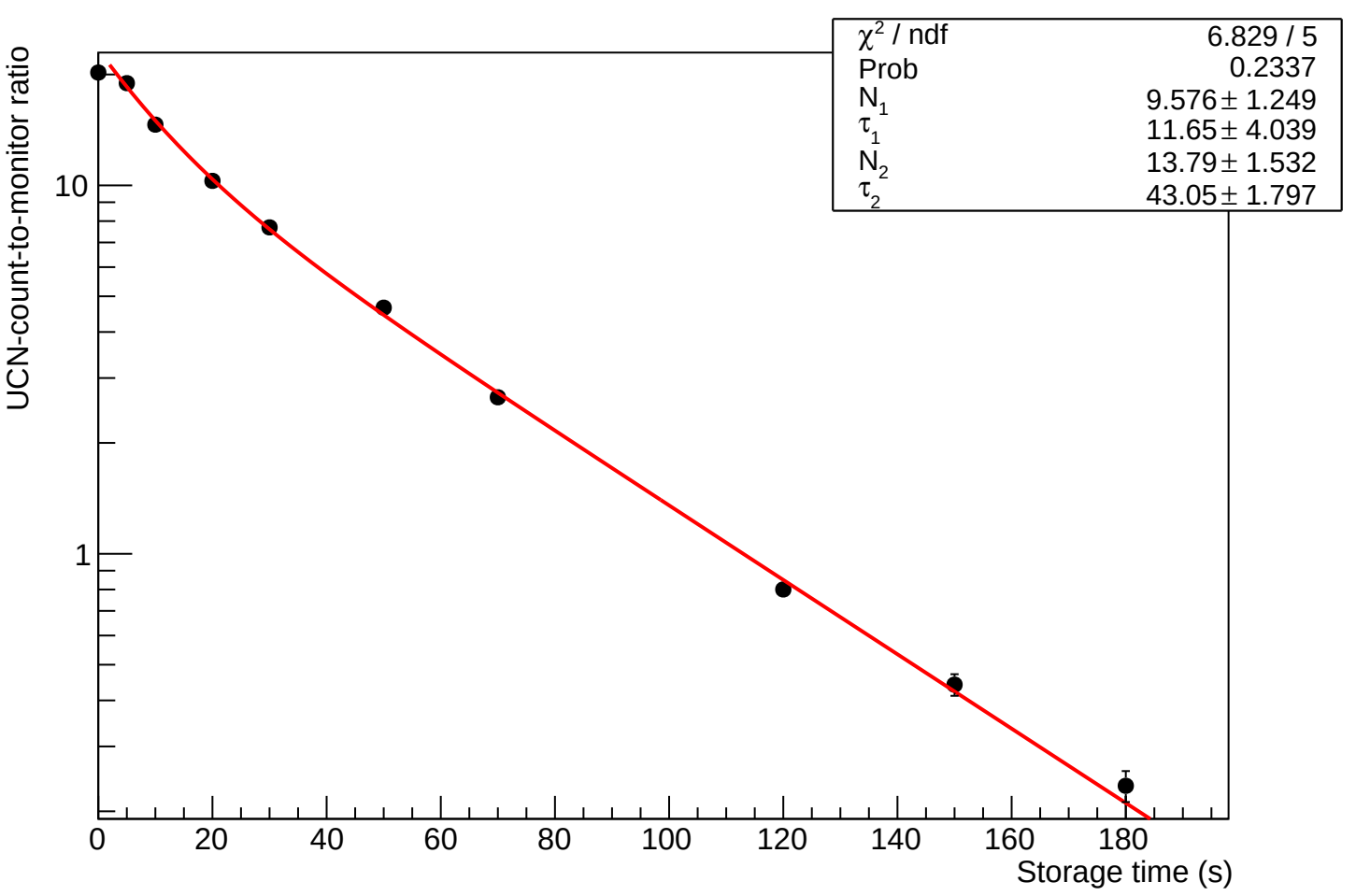
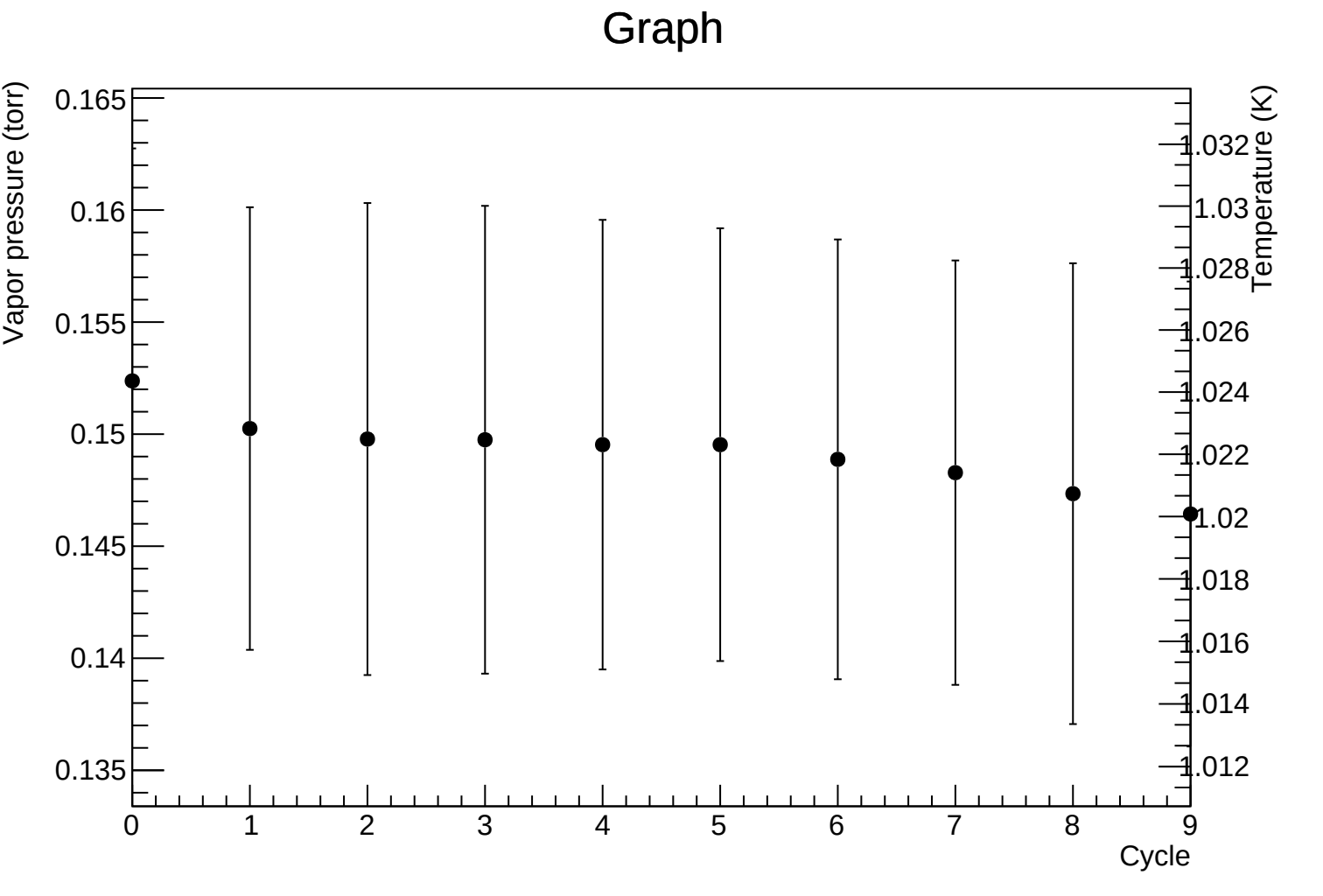
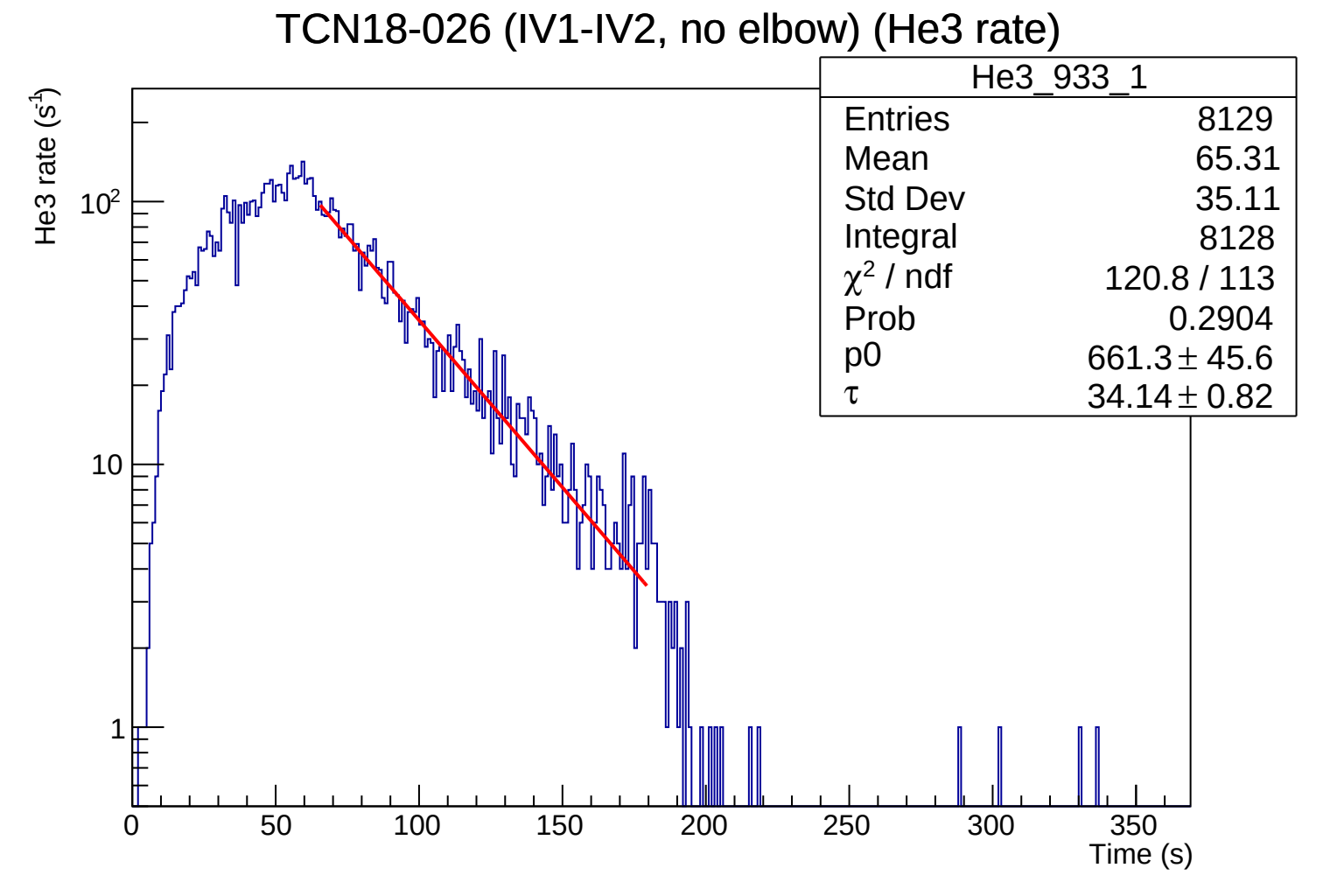
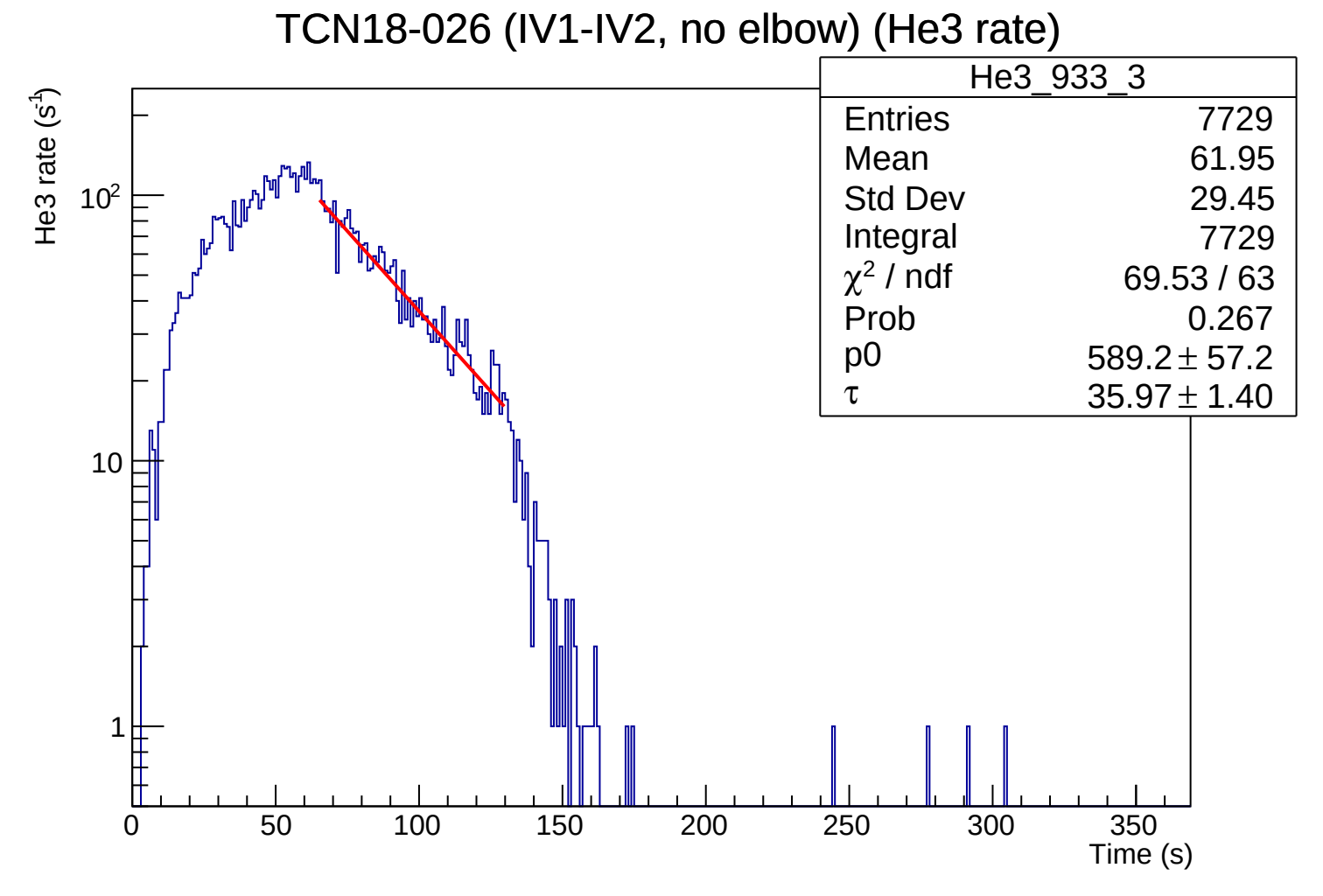
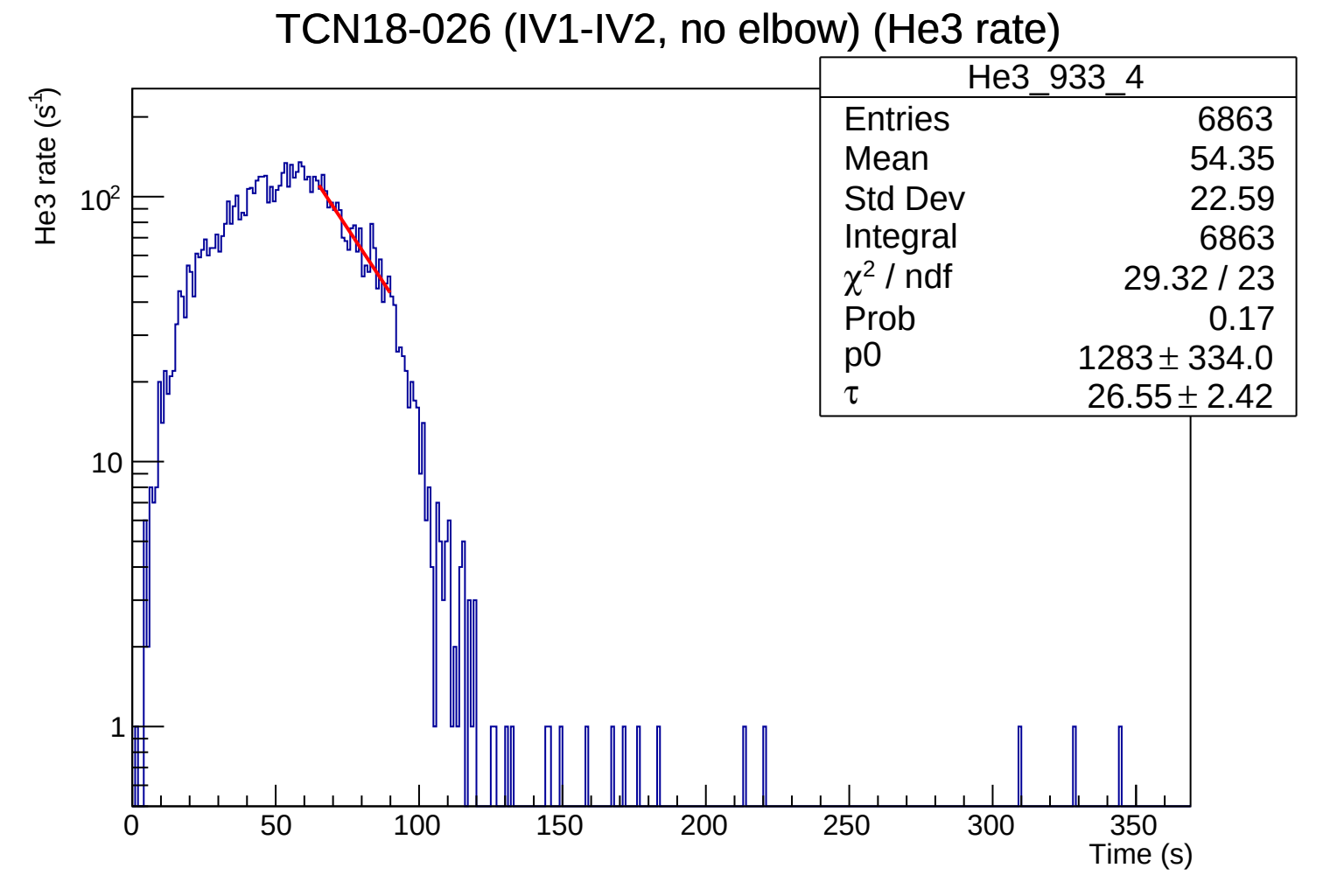

TCN18-026 (IV1-IV2, no elbow) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 60.61 / 7
Prob 1.138e−10
p0 18.01 ± 0.3545
τ 38.36 ± 0.5362
UCN-count-to-monitor ratio
10
1
0
20
40
60
80
100
120
140
160
180
Storage time (s)

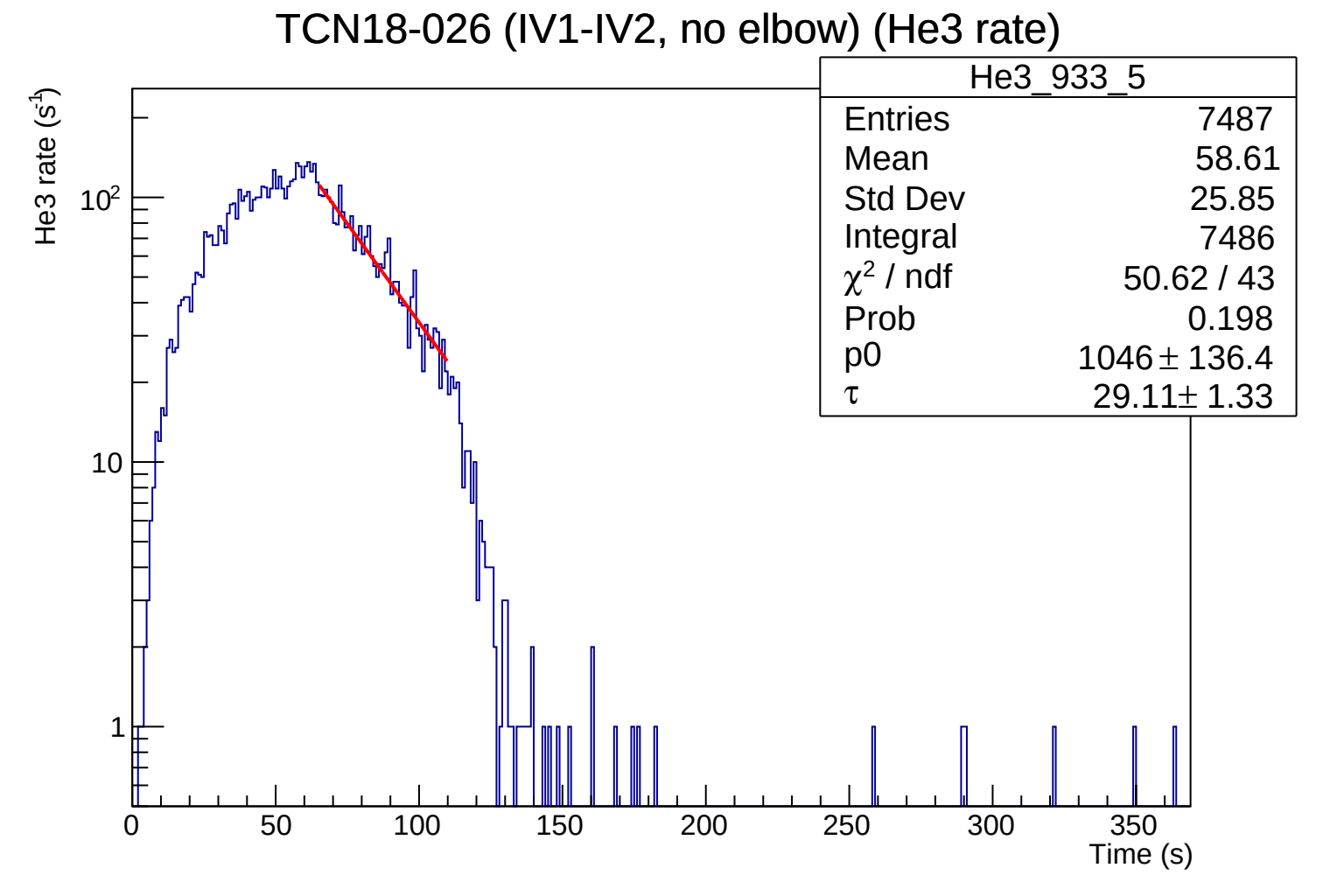

TCN18-026 (IV1-IV2, no elbow) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 6.829 / 5
Prob 0.2337
N1 9.576 ± 1.249
τ1 11.65 ± 4.039
N2 13.79 ± 1.532
τ2 43.05 ± 1.797
UCN-count-to-monitor ratio
10
1
0
20
40
60
80
100
120
140
160
180
Storage time (s)

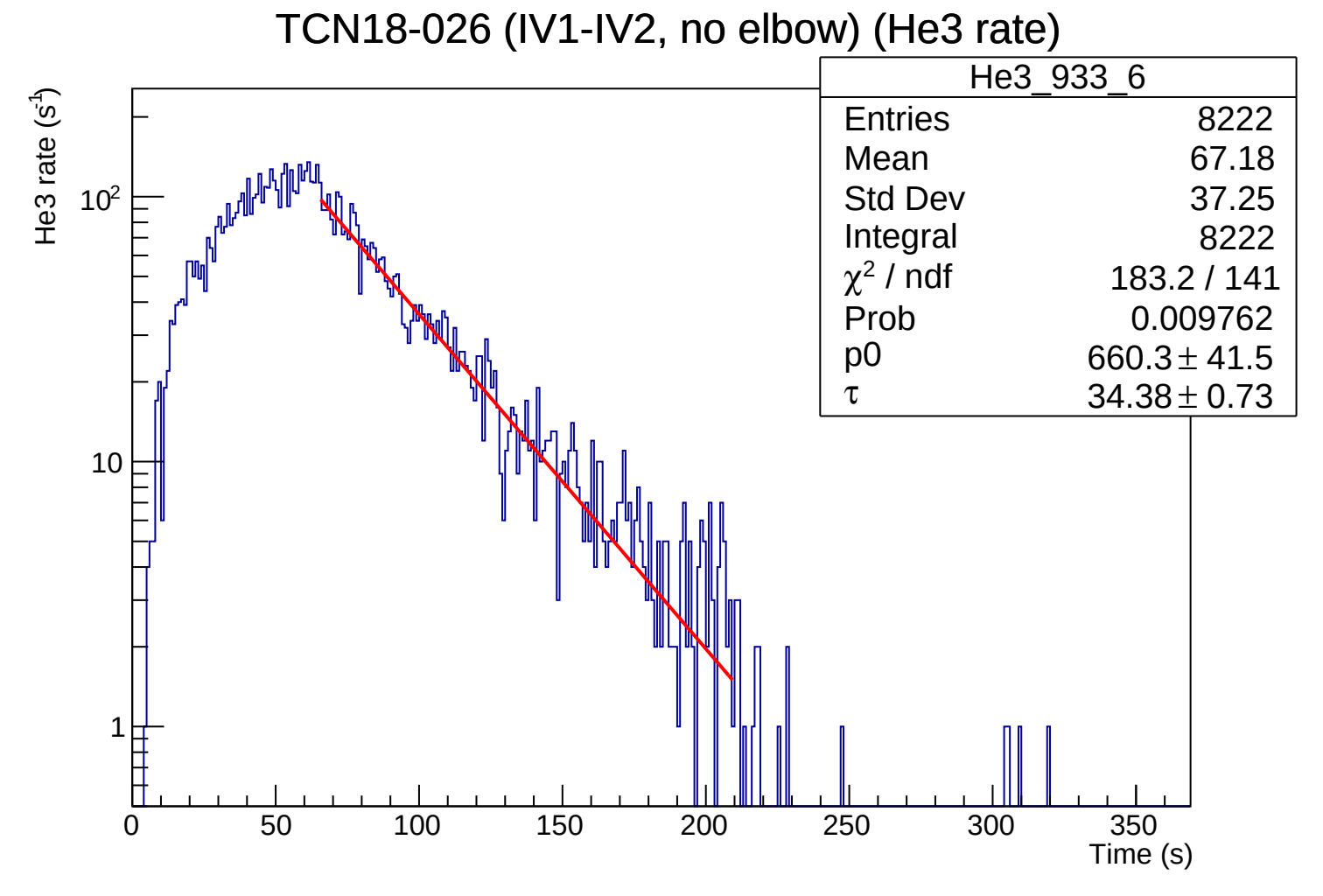

Graph
Vapor pressure (torr)
0.165
0.16
0.155
0.15
0.145
0.14
0.135
Temperature (K)
1.032
1.03
1.028
1.026
1.024
1.022
1.02
1.018
1.016
1.014
1.012
0
1
2
3
4
5
6
7
8
9
Cycle

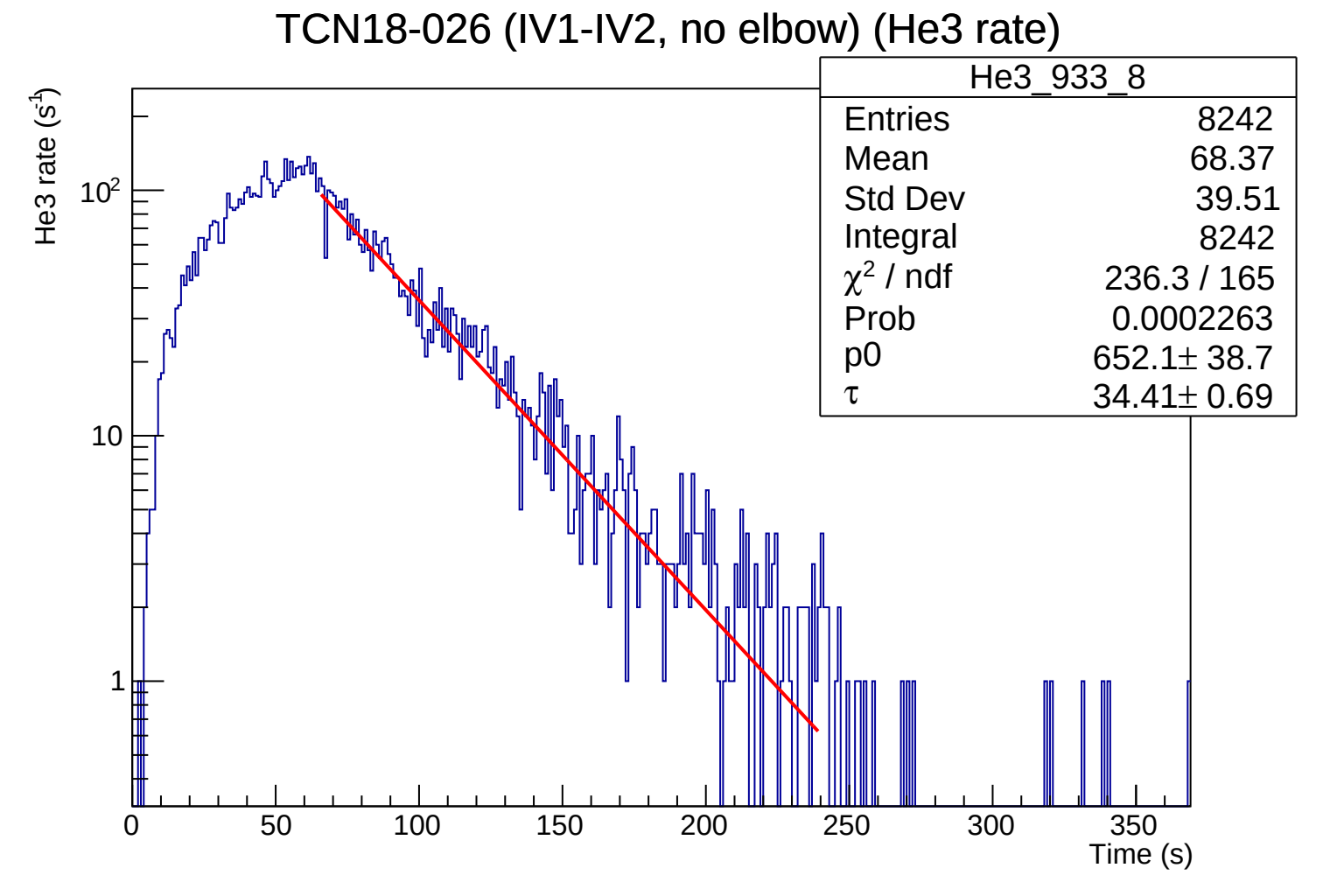

TCN18-026 (IV1-IV2, no elbow) (He3 rate)
He3_933_1
Entries 8129
Mean 65.31
Std Dev 35.11
Integral 8128
χ² / ndf 120.8 / 113
Prob 0.2904
p0 661.3 ± 45.6
τ 34.14 ± 0.82
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
350
Time (s)

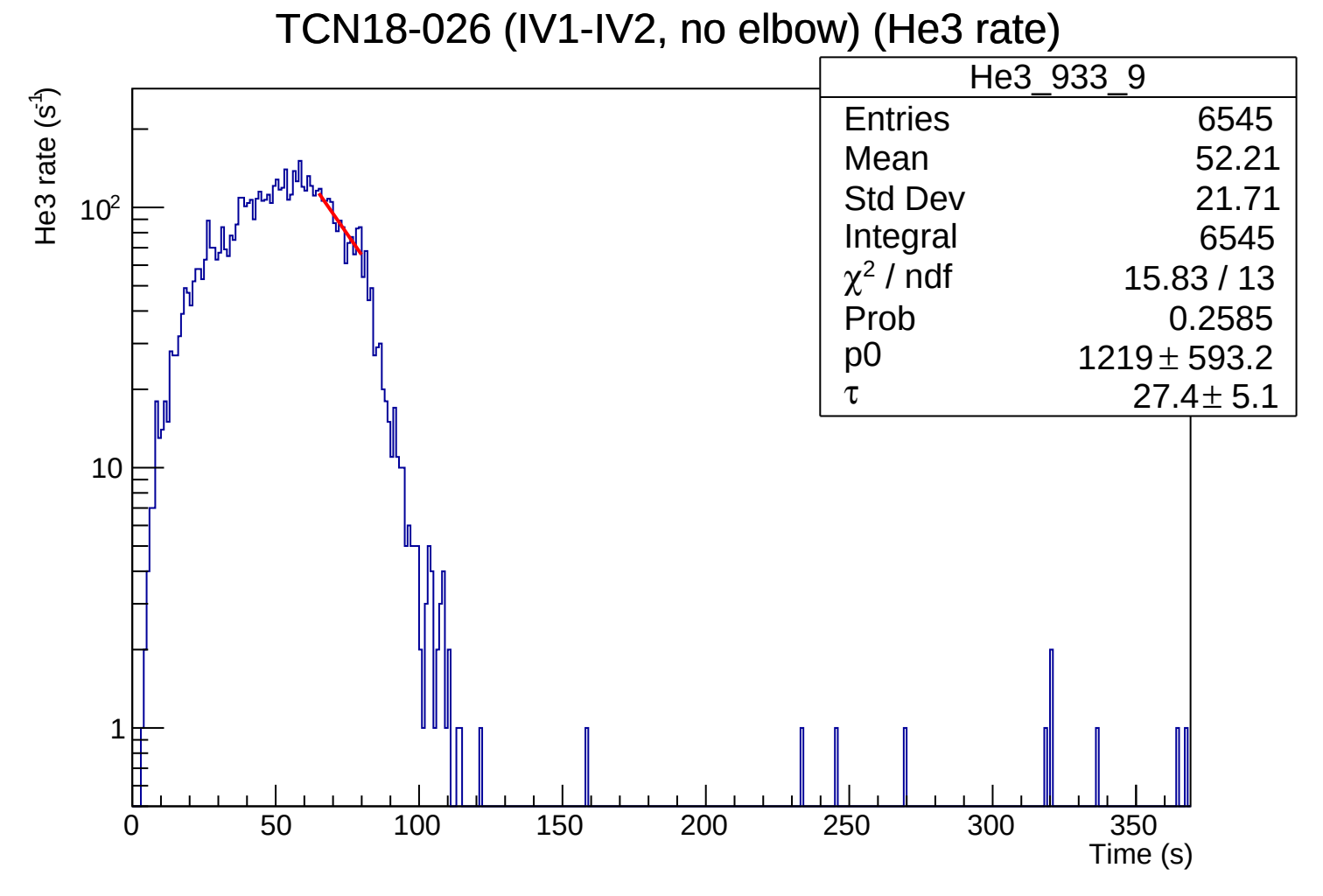

TCN18-026 (IV1-IV2, no elbow) (He3 rate)
He3_933_3
Entries 7729
Mean 61.95
Std Dev 29.45
Integral 7729
χ² / ndf 69.53 / 63
Prob 0.267
p0 589.2 ± 57.2
τ 35.97 ± 1.40
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
350
Time (s)

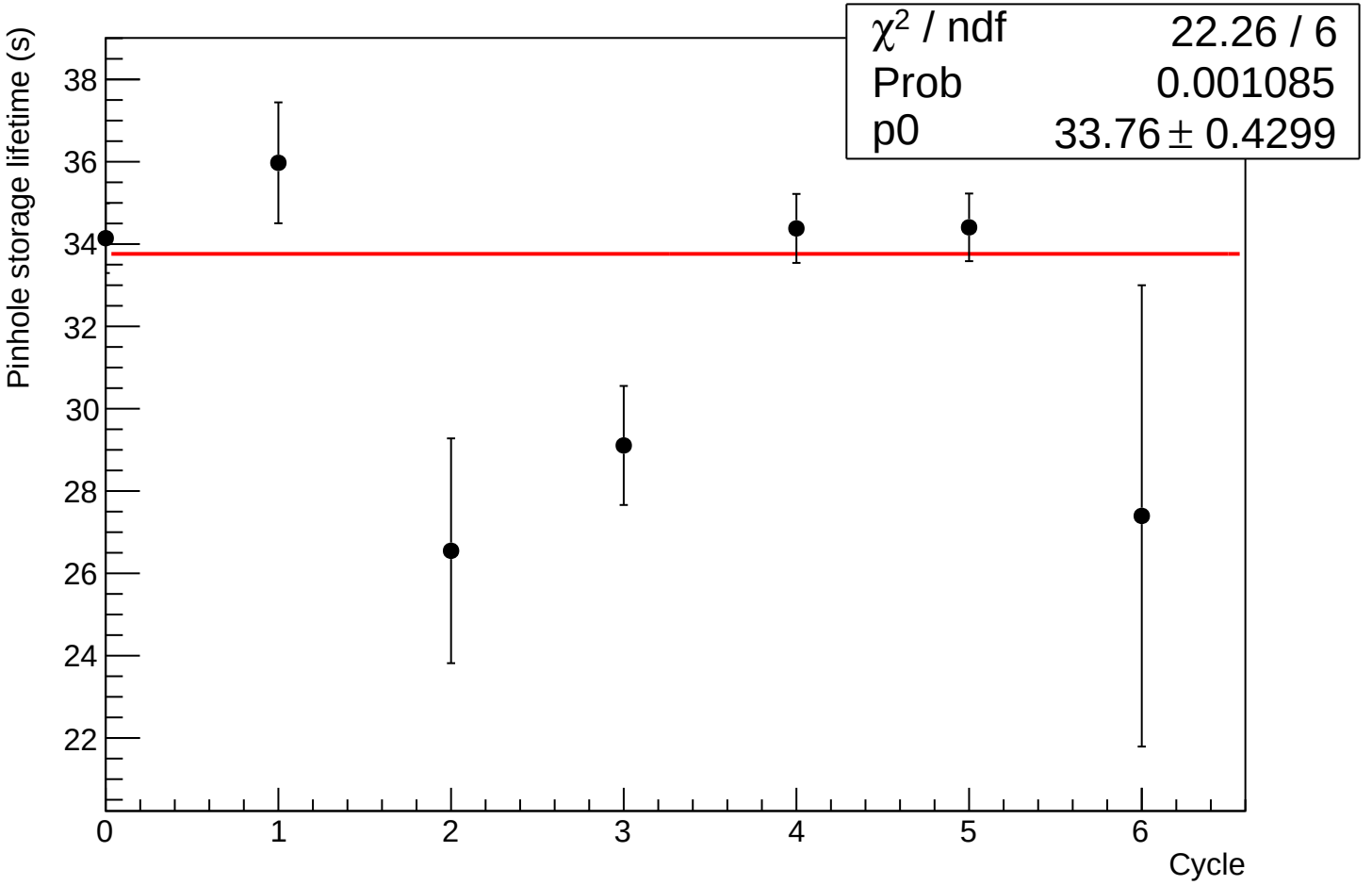

TCN18-026 (IV1-IV2, no elbow) (He3 rate)
He3_933_4
Entries 6863
Mean 54.35
Std Dev 22.59
Integral 6863
χ² / ndf 29.32 / 23
Prob 0.17
p0 1283 ± 334.0
τ 26.55 ± 2.42
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
350
Time (s)

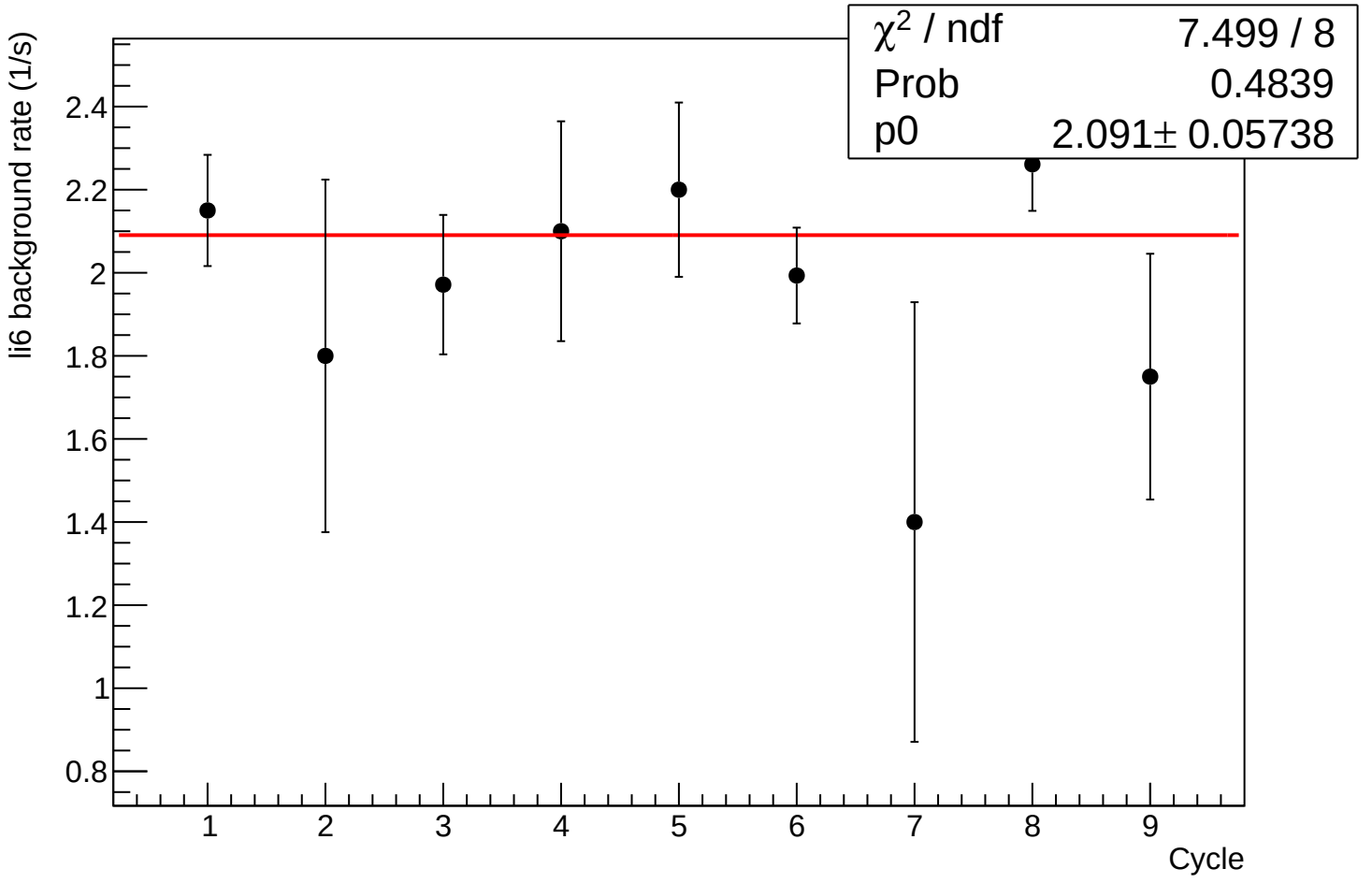

TCN18-026 (IV1-IV2, no elbow) (He3 rate)
He3_933_5
Entries 7487
Mean 58.61
Std Dev 25.85
Integral 7486
χ² / ndf 50.62 / 43
Prob 0.198
p0 1046 ± 136.4
τ 29.11 ± 1.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
350
Time (s)

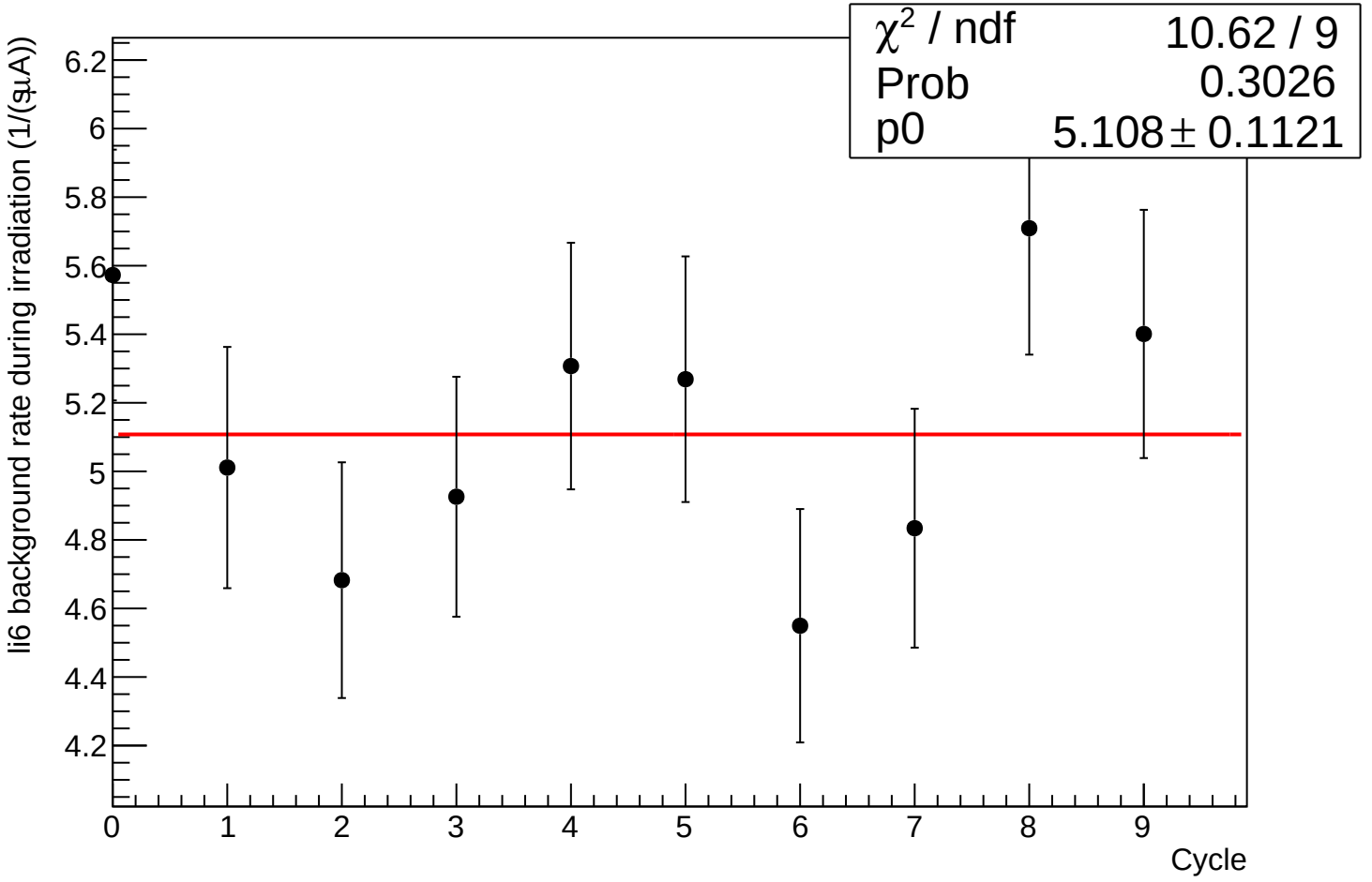

TCN18-026 (IV1-IV2, no elbow) (He3 rate)
He3_933_6
Entries 8222
Mean 67.18
Std Dev 37.25
Integral 8222
χ² / ndf 183.2 / 141
Prob 0.009762
p0 660.3 ± 41.5
τ 34.38 ± 0.73
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
350
Time (s)

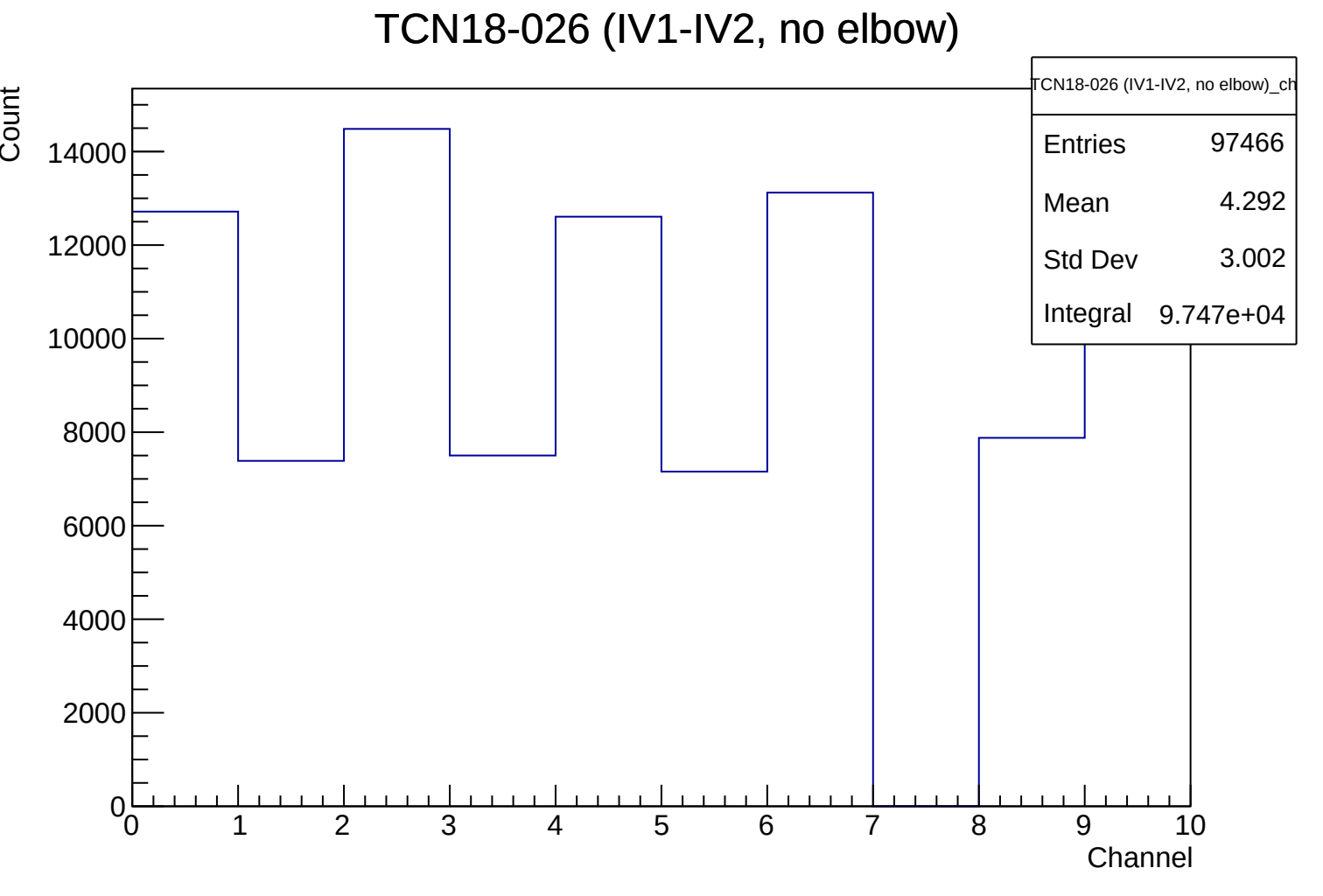

TCN18-026 (IV1-IV2, no elbow) (He3 rate)
He3_933_8
Entries 8242
Mean 68.37
Std Dev 39.51
Integral 8242
χ² / ndf 236.3 / 165
Prob 0.0002263
p0 652.1± 38.7
τ 34.41± 0.69
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
350
Time (s)


TCN18-026 (IV1-IV2, no elbow) (He3 rate)
He3_933_9
Entries 6545
Mean 52.21
Std Dev 21.71
Integral 6545
χ² / ndf 15.83 / 13
Prob 0.2585
p0 1219 ± 593.2
τ 27.4 ± 5.1
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
350
Time (s)


χ^2 / ndf 22.26 / 6
Prob 0.001085
p0 33.76 ± 0.4299
Pinhole storage lifetime (s)
38
36
34
32
30
28
26
24
22
0
1
2
3
4
5
6
Cycle


li6 background rate (1/s)
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
1
2
3
4
5
6
7
8
9
Cycle
χ² / ndf 7.499 / 8
Prob 0.4839
p0 2.091± 0.05738


χ² / ndf 10.62 / 9
Prob 0.3026
p0 5.108 ± 0.1121
li6 background rate during irradiation (1/(μA))
6.2
6
5.8
5.6
5.4
5.2
5
4.8
4.6
4.4
4.2
0
1
2
3
4
5
6
7
8
9
Cycle


TCN18-026 (IV1-IV2, no elbow)
TCN18-026 (IV1-IV2, no elbow)_ch
Entries 97466
Mean 4.292
Std Dev 3.002
Integral 9.747e+04
Count
14000
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10
Channel