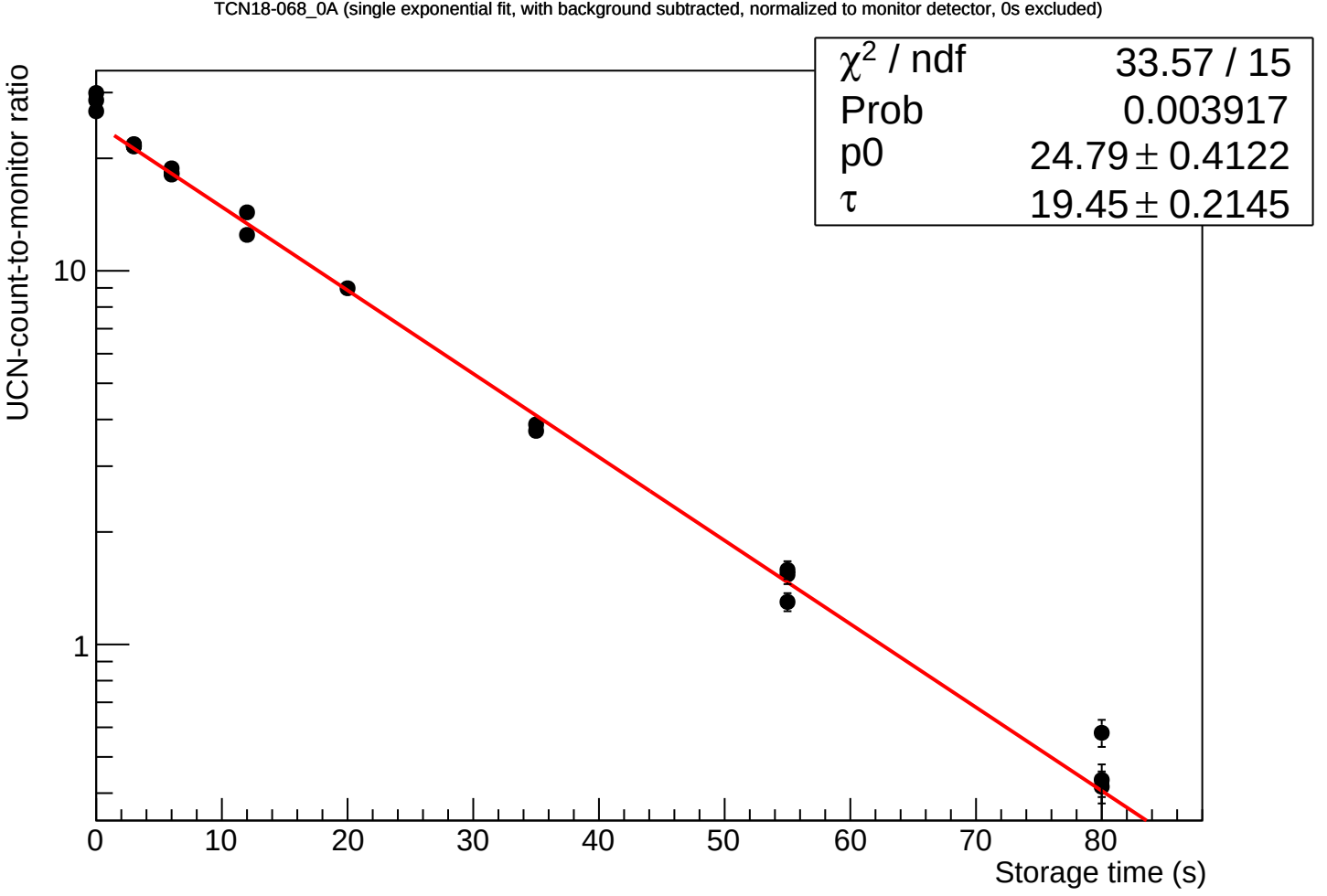
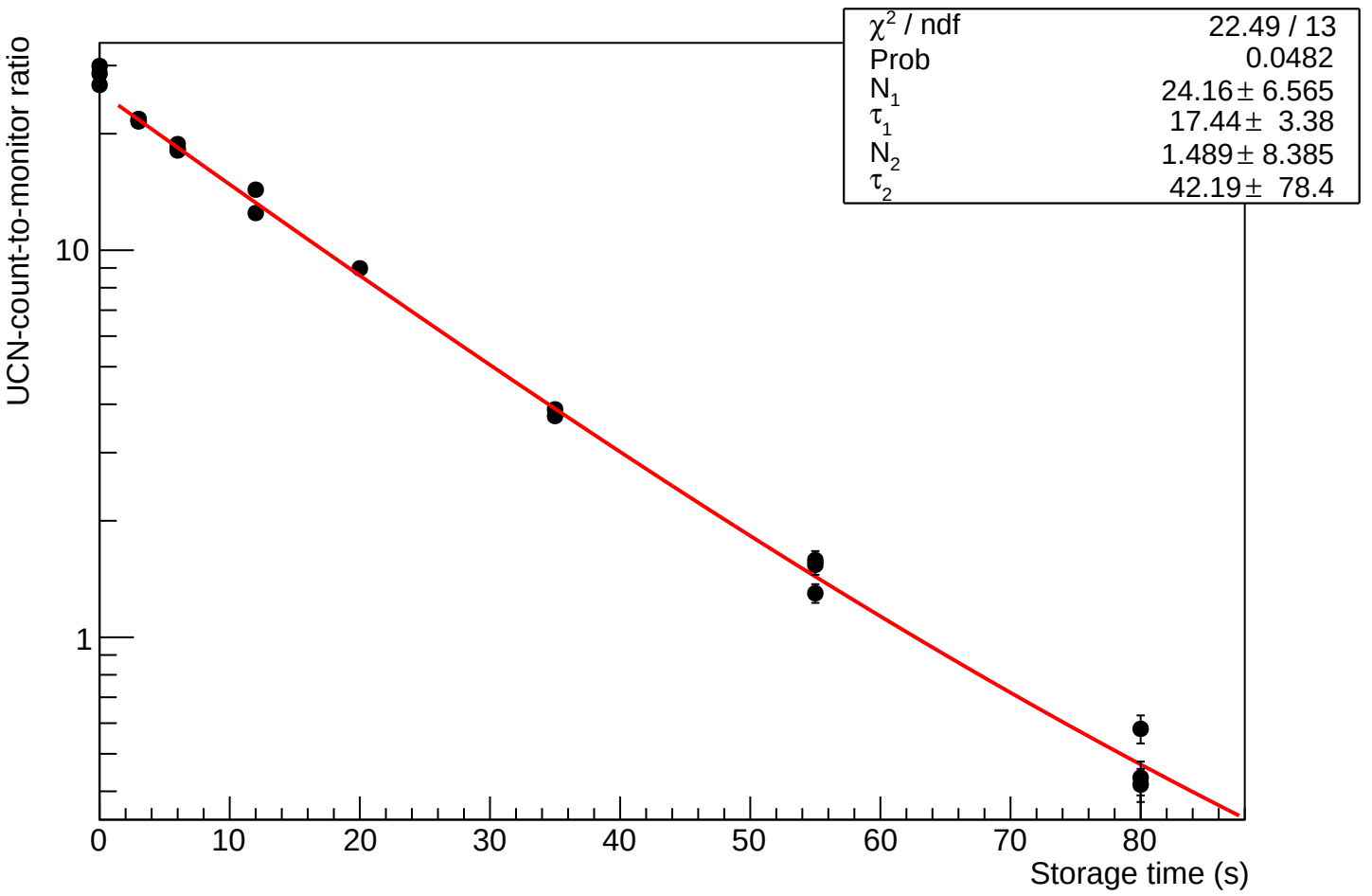
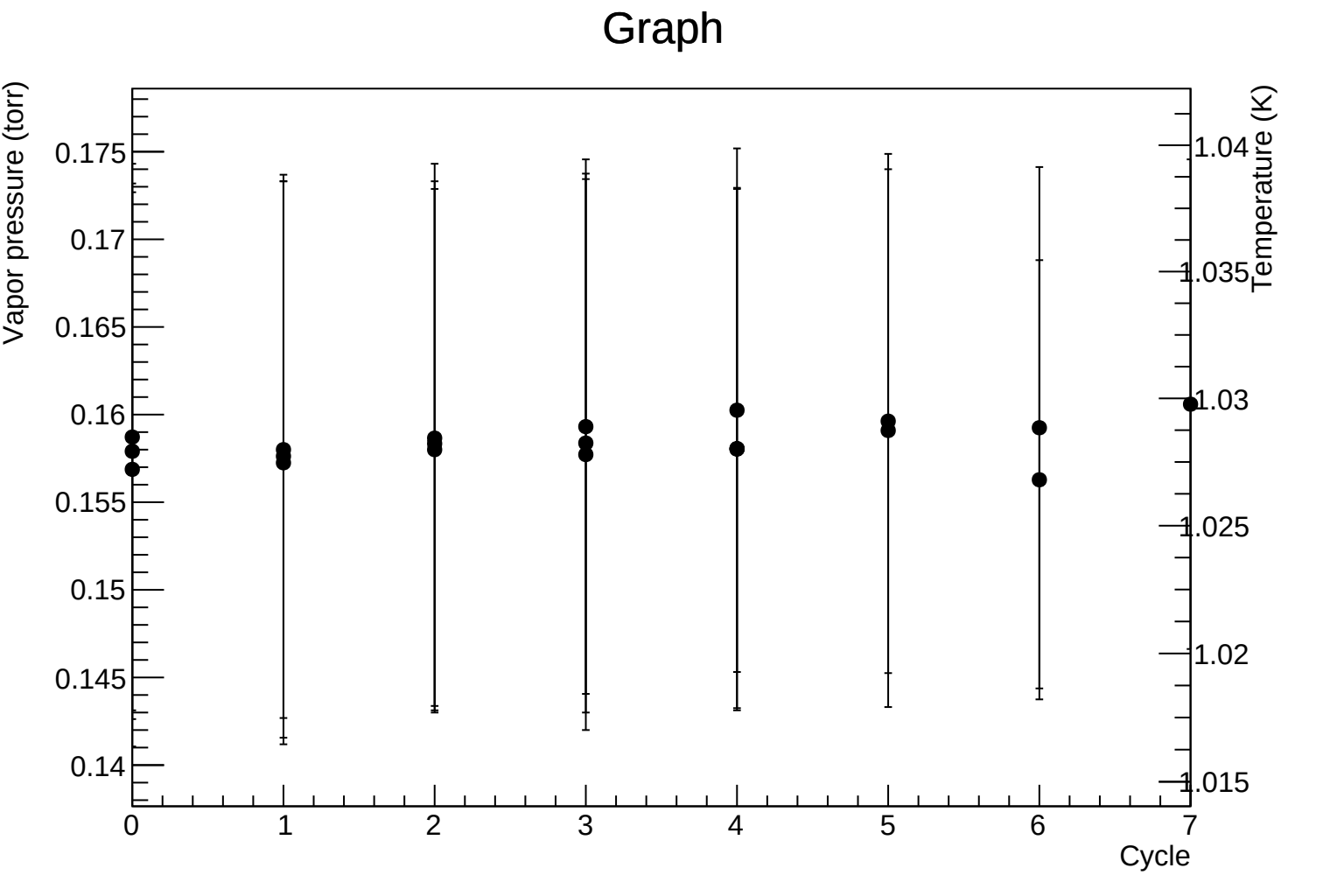
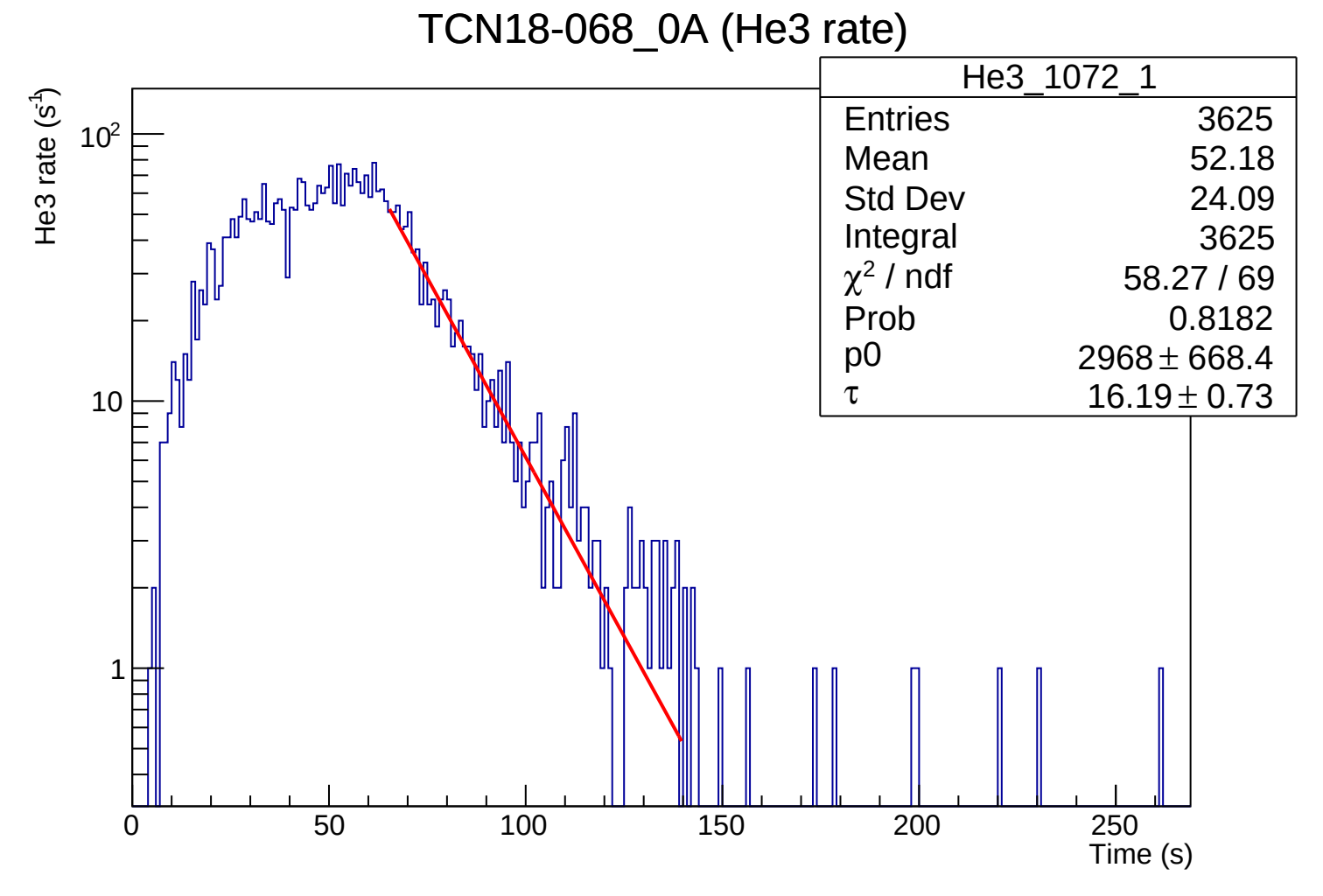
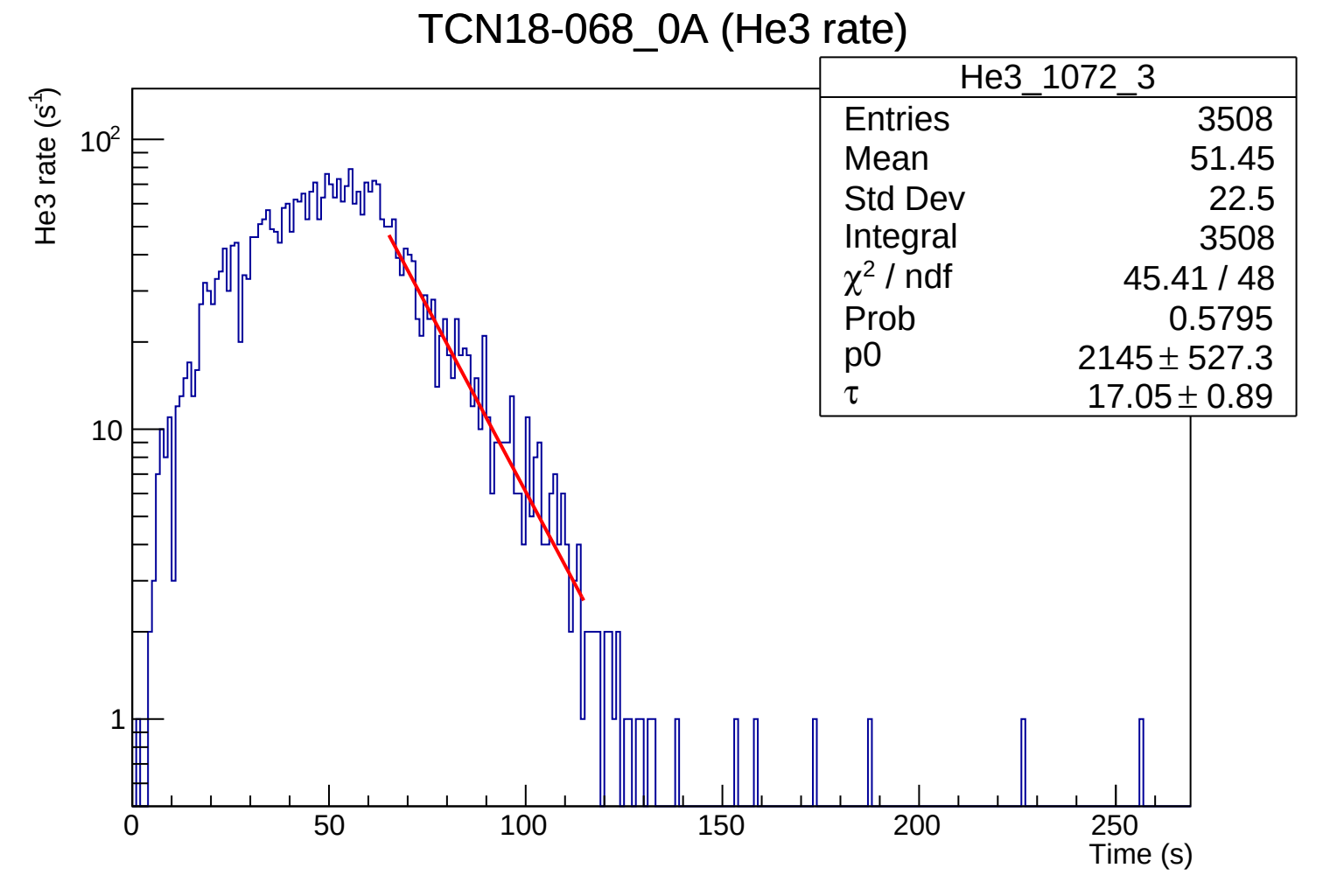
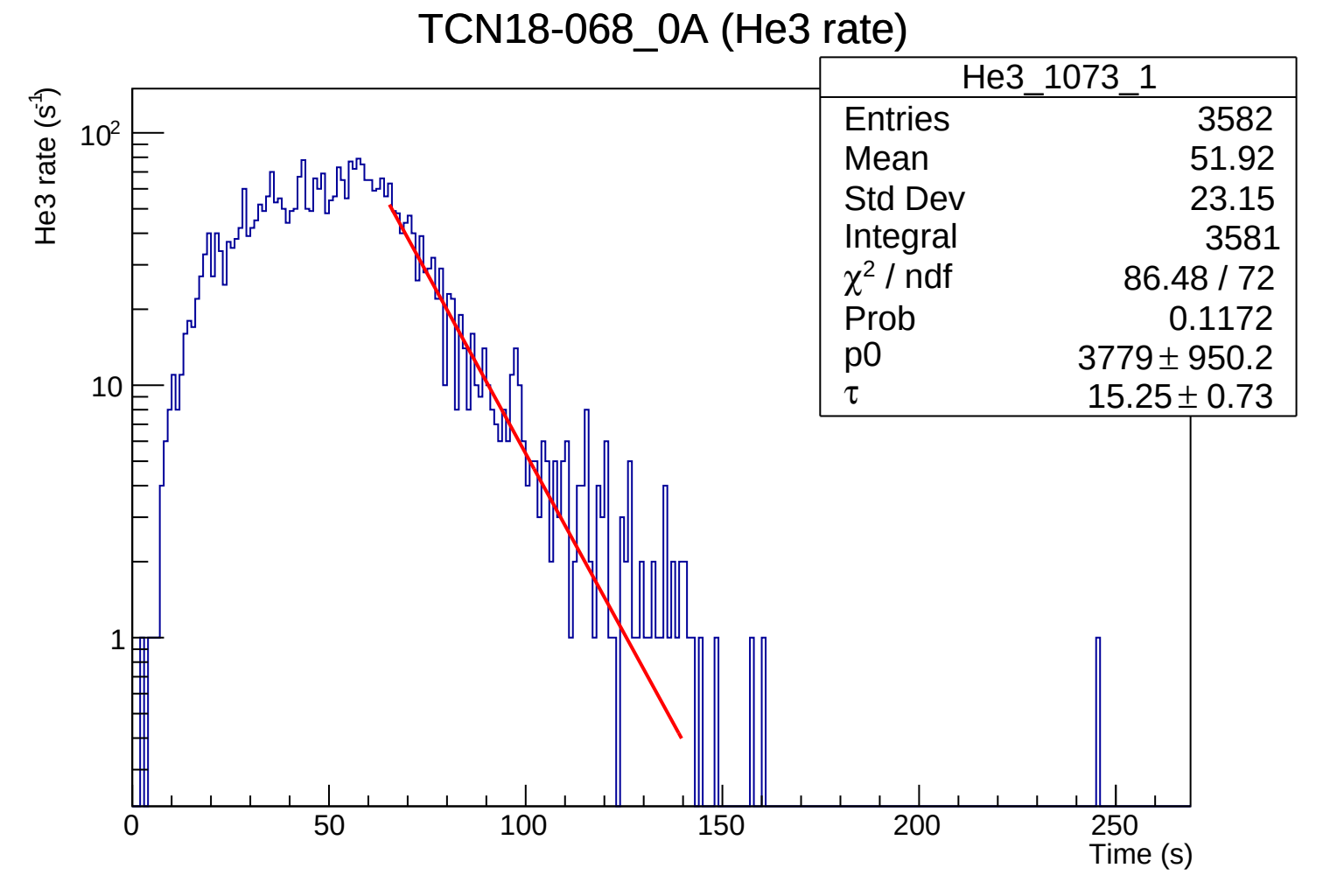

TCN18-068_0A (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 33.57 / 15
Prob 0.003917
p0 24.79 ± 0.4122
τ 19.45 ± 0.2145
UCN-count-to-monitor ratio
10
1
0
10
20
30
40
50
60
70
80
Storage time (s)

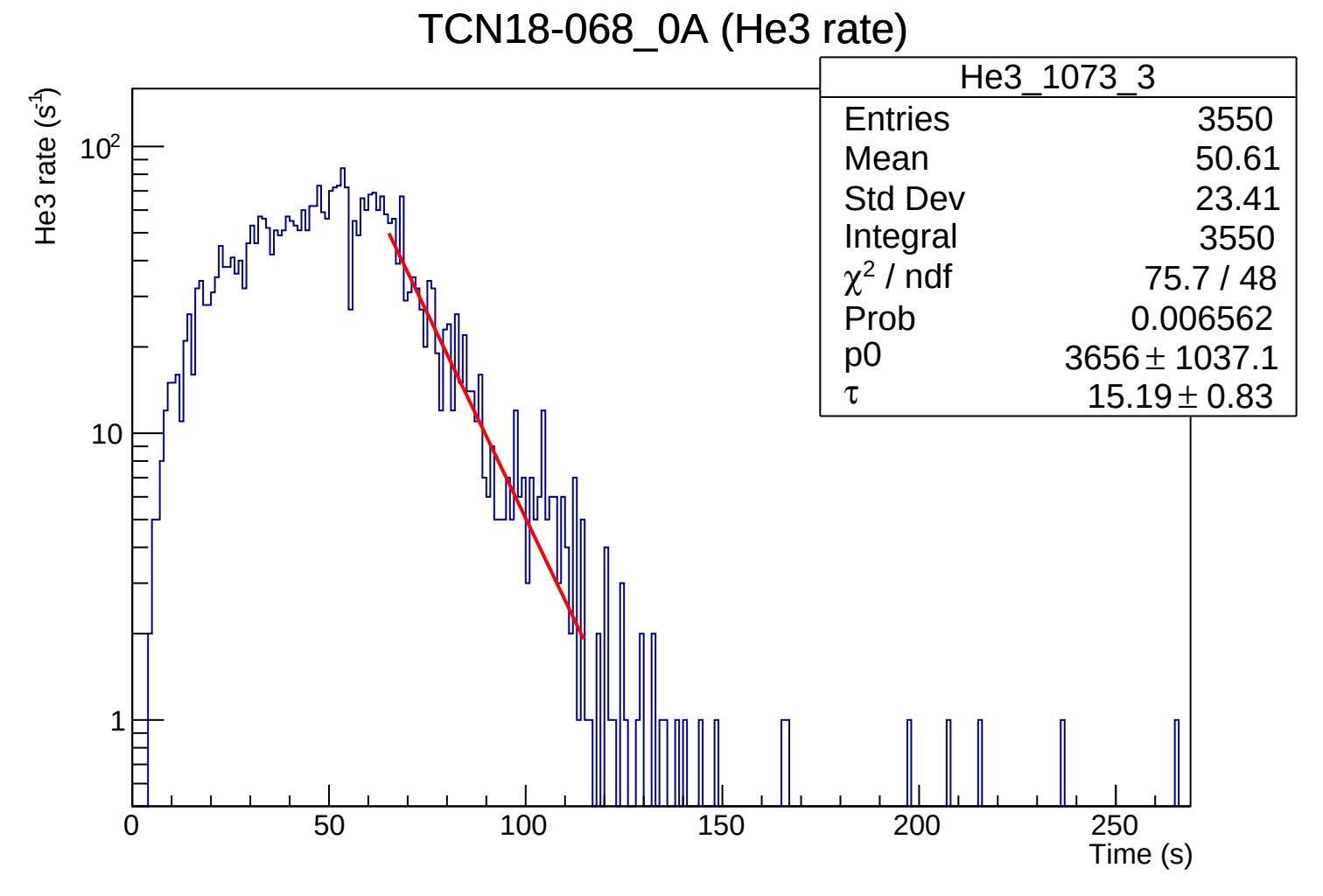

TCN18-068_0A (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 22.49 / 13
Prob 0.0482
N1 24.16 ± 6.565
τ1 17.44 ± 3.38
N2 1.489 ± 8.385
τ2 42.19 ± 78.4
UCN-count-to-monitor ratio
10
1
0
10
20
30
40
50
60
70
80
Storage time (s)

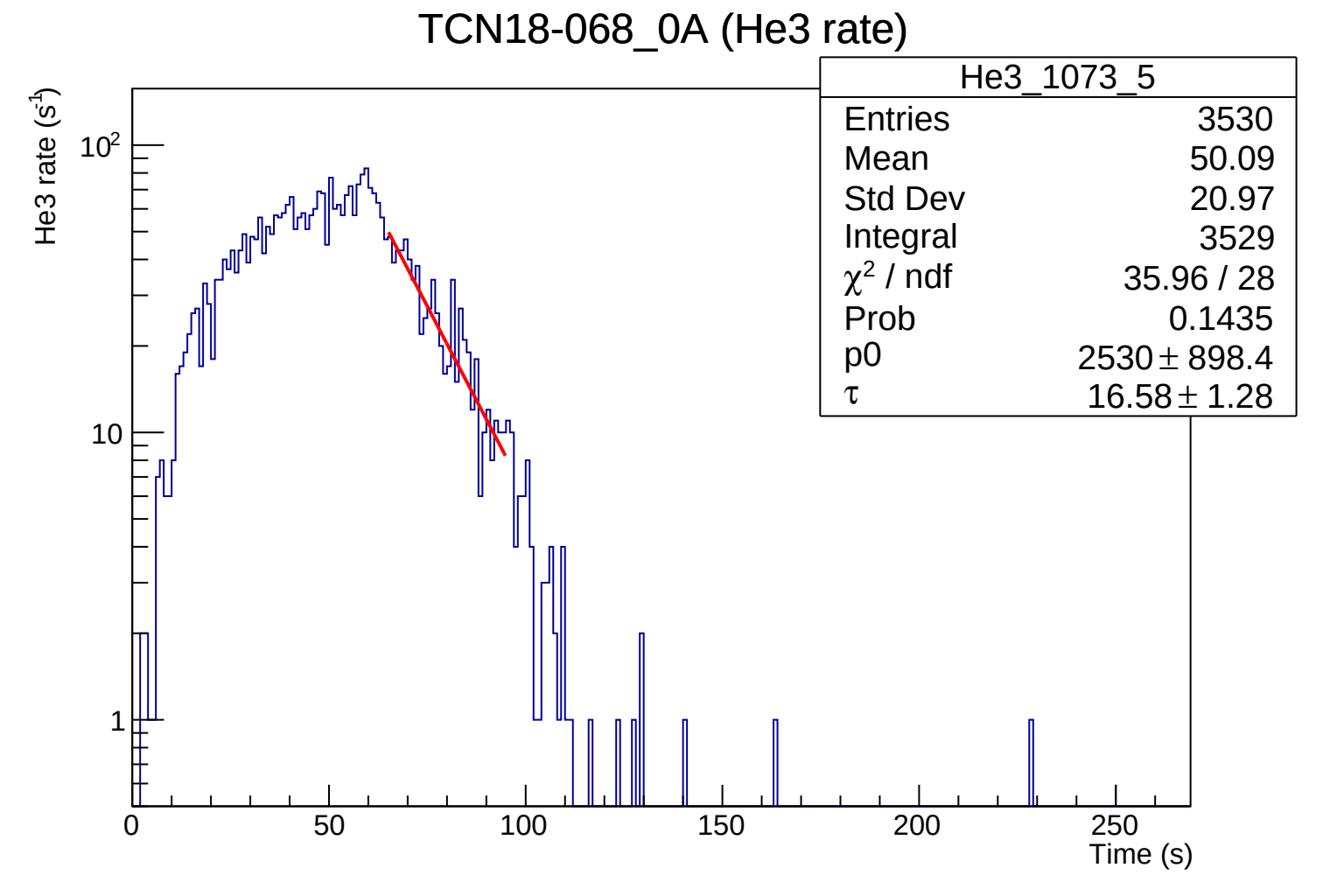

Graph
Vapor pressure (torr)
0.175
0.17
0.165
0.16
0.155
0.15
0.145
0.14
Temperature (K)
1.04
1.035
1.03
1.025
1.02
1.015
0
1
2
3
4
5
6
7
Cycle

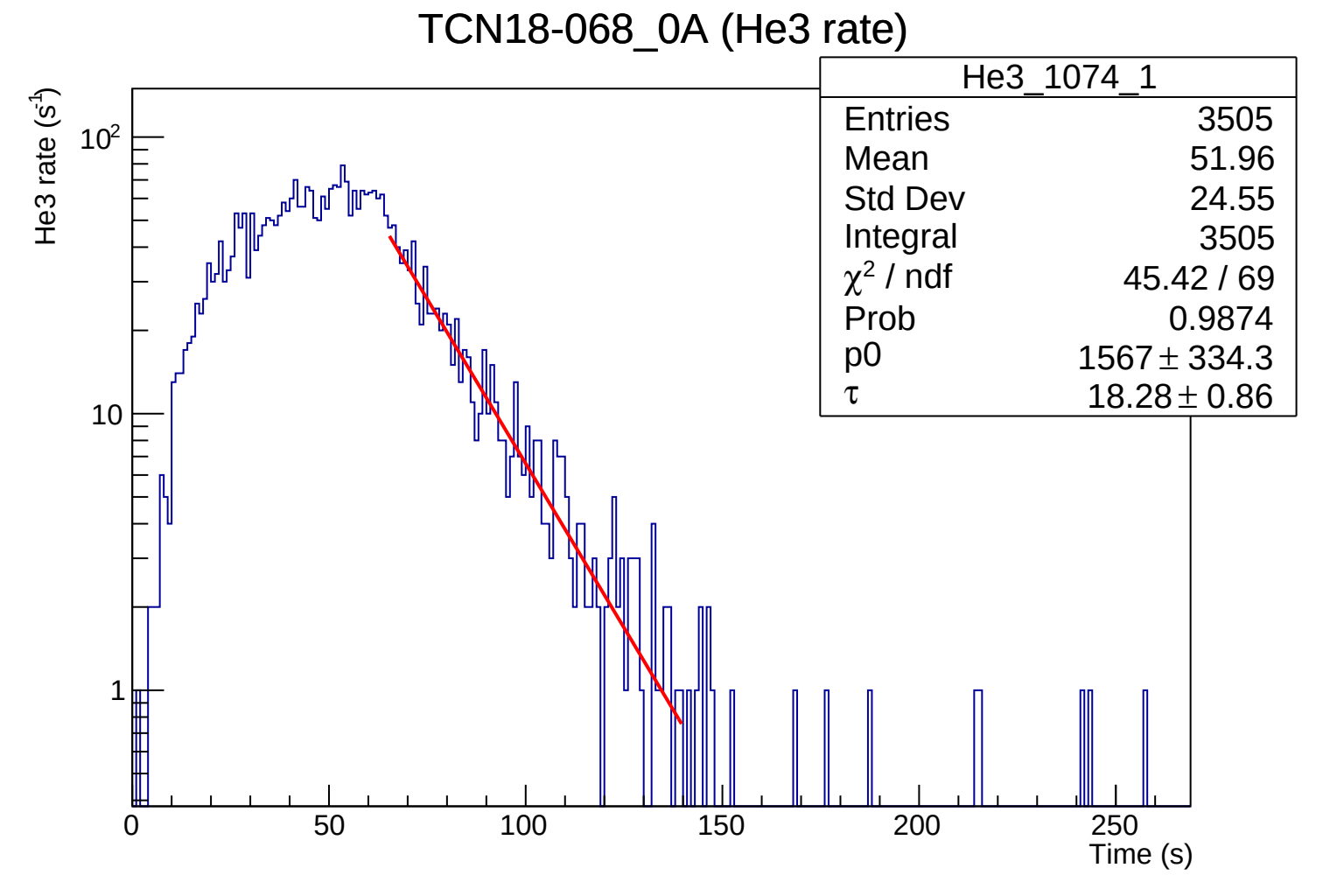

TCN18-068_0A (He3 rate)
He3_1072_1
Entries 3625
Mean 52.18
Std Dev 24.09
Integral 3625
χ² / ndf 58.27 / 69
Prob 0.8182
p0 2968 ± 668.4
τ 16.19 ± 0.73
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

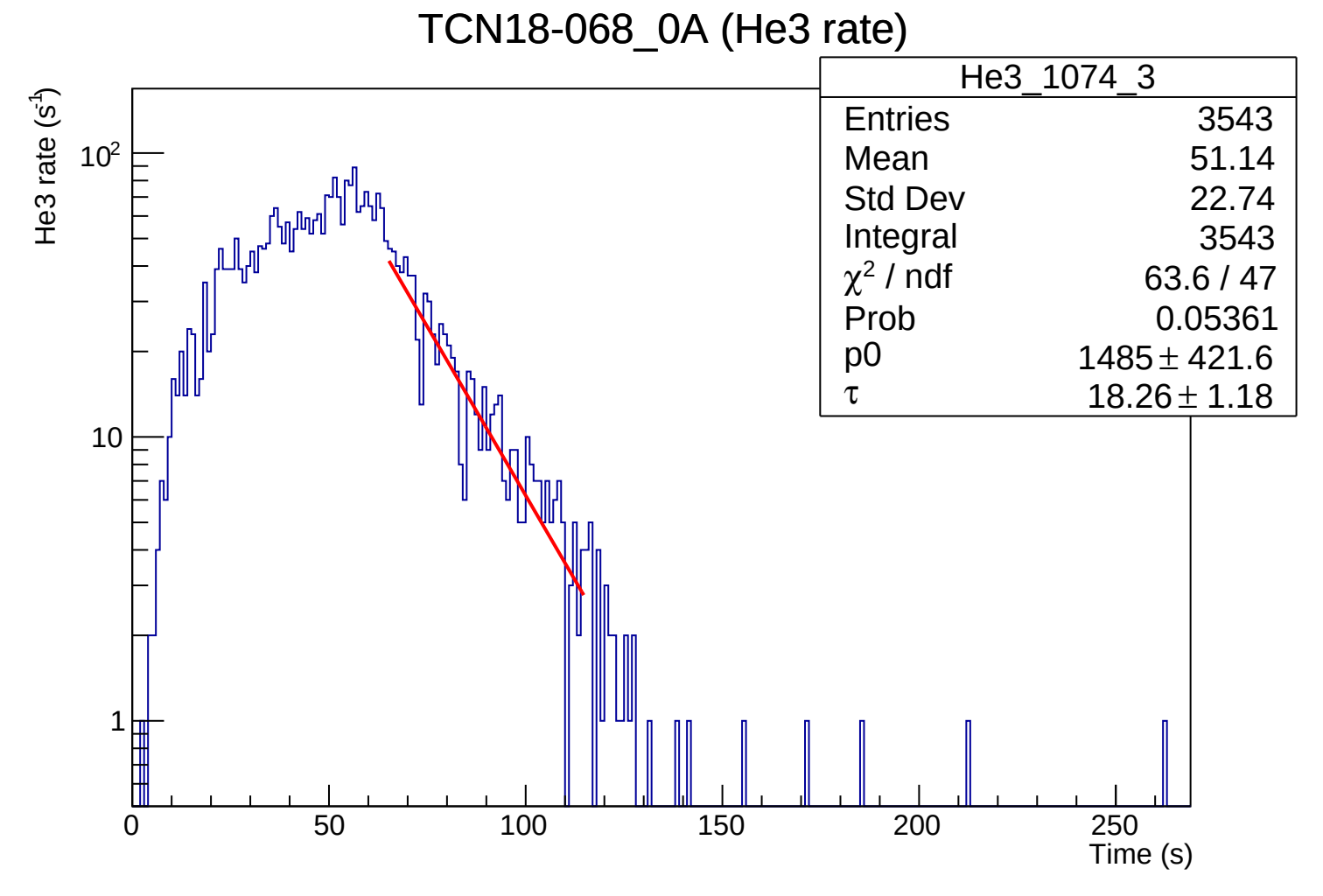

TCN18-068_0A (He3 rate)
He3_1072_3
Entries 3508
Mean 51.45
Std Dev 22.5
Integral 3508
χ² / ndf 45.41 / 48
Prob 0.5795
p0 2145 ± 527.3
τ 17.05 ± 0.89
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

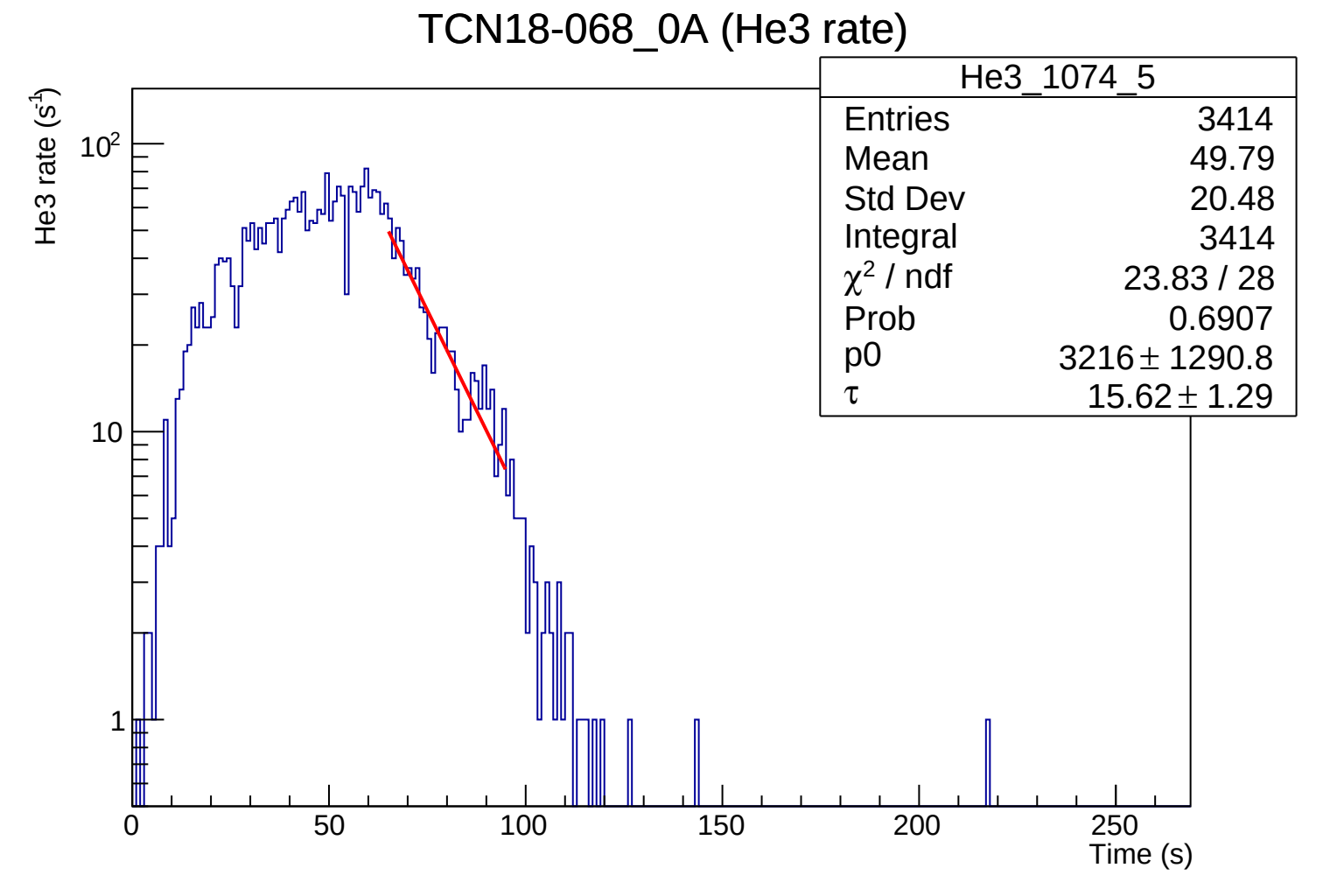

TCN18-068_0A (He3 rate)
He3_1073_1
Entries 3582
Mean 51.92
Std Dev 23.15
Integral 3581
χ² / ndf 86.48 / 72
Prob 0.1172
p0 3779 ± 950.2
τ 15.25 ± 0.73
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

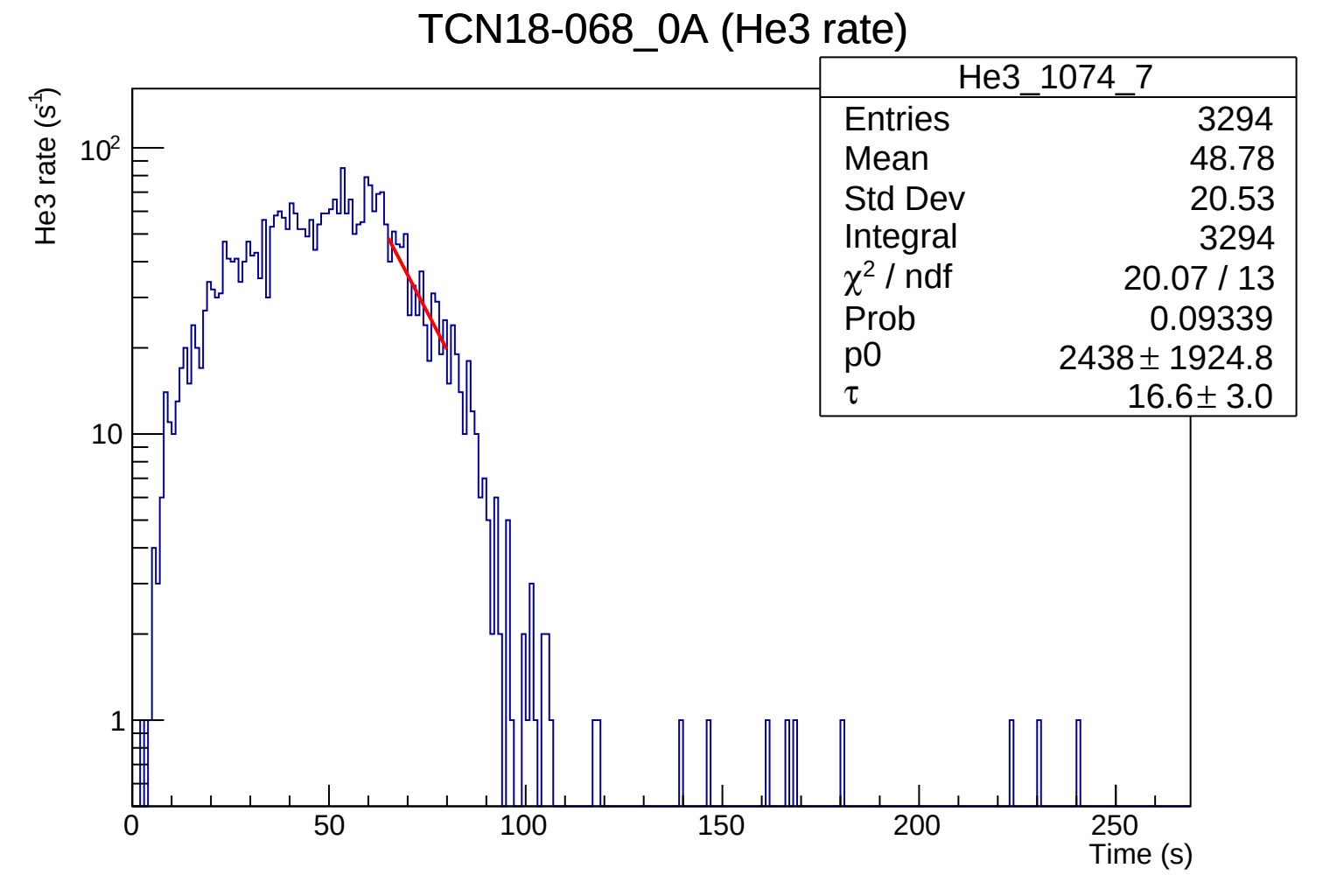

TCN18-068_0A (He3 rate)
He3_1073_3
Entries 3550
Mean 50.61
Std Dev 23.41
Integral 3550
χ² / ndf 75.7 / 48
Prob 0.006562
p0 3656 ± 1037.1
τ 15.19 ± 0.83
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

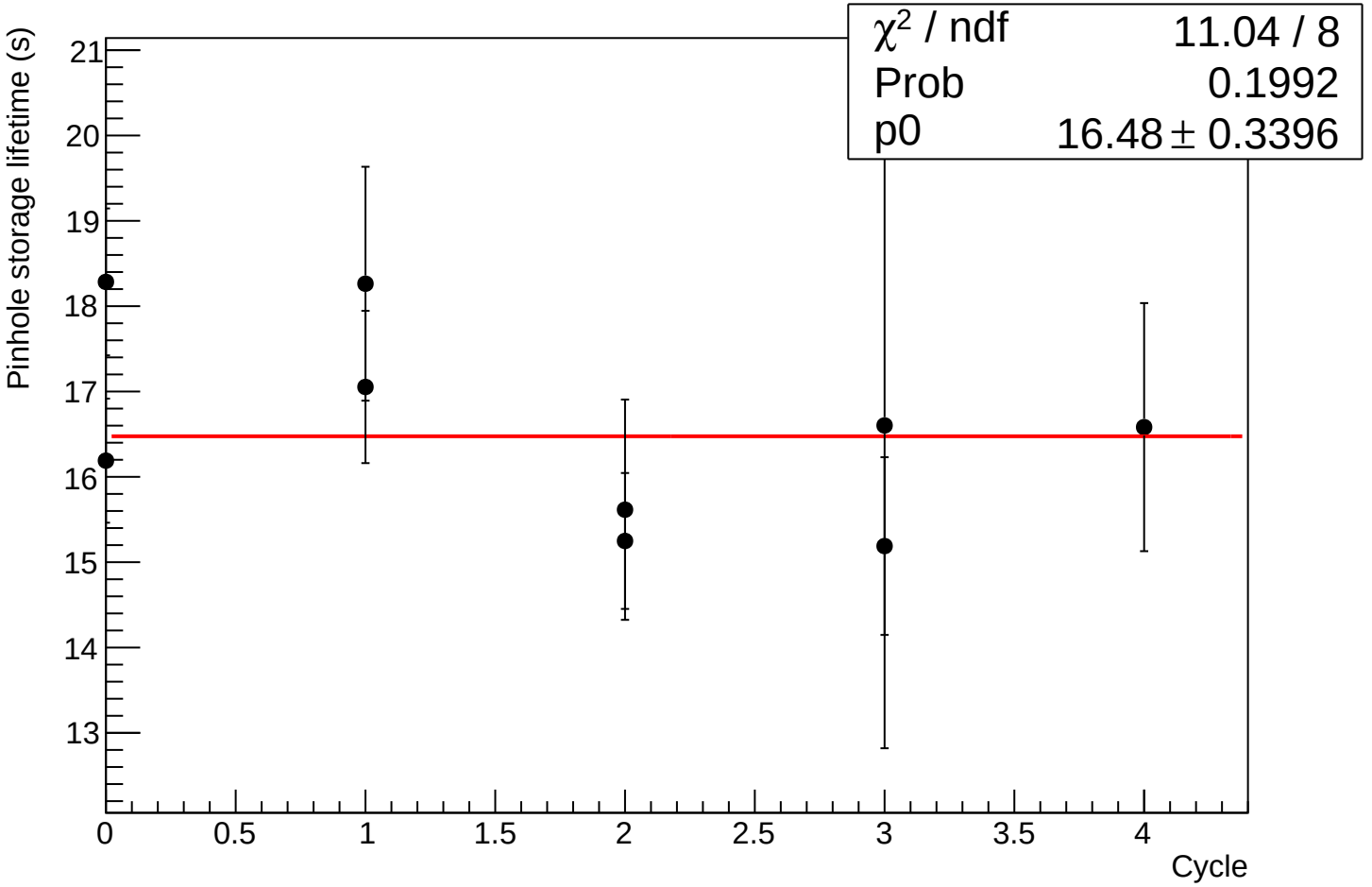

TCN18-068_0A (He3 rate)
He3_1073_5
Entries 3530
Mean 50.09
Std Dev 20.97
Integral 3529
χ² / ndf 35.96 / 28
Prob 0.1435
p0 2530 ± 898.4
τ 16.58 ± 1.28
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

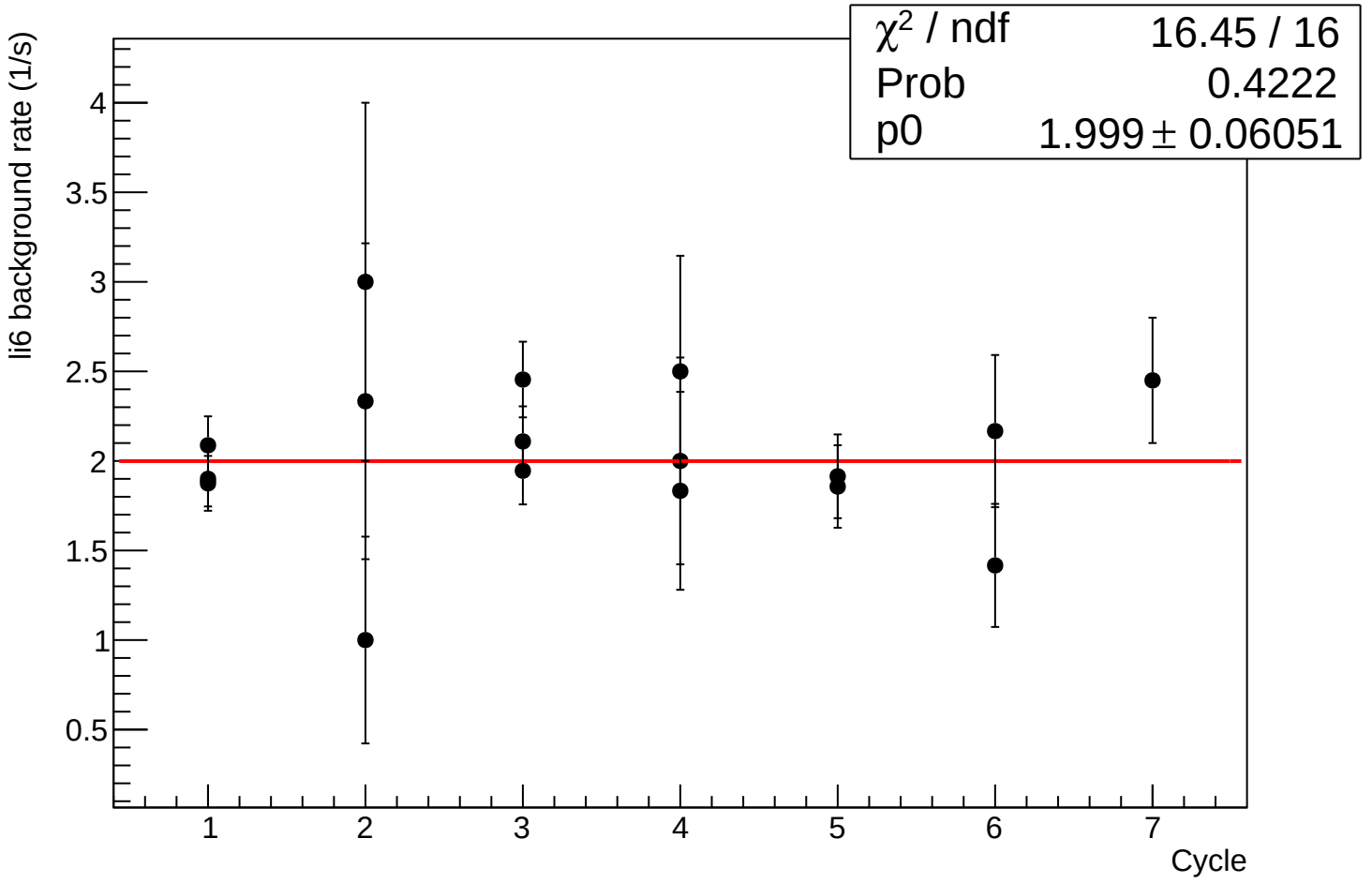

TCN18-068_0A (He3 rate)
He3_1074_1
Entries 3505
Mean 51.96
Std Dev 24.55
Integral 3505
χ² / ndf 45.42 / 69
Prob 0.9874
p0 1567 ± 334.3
τ 18.28 ± 0.86
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

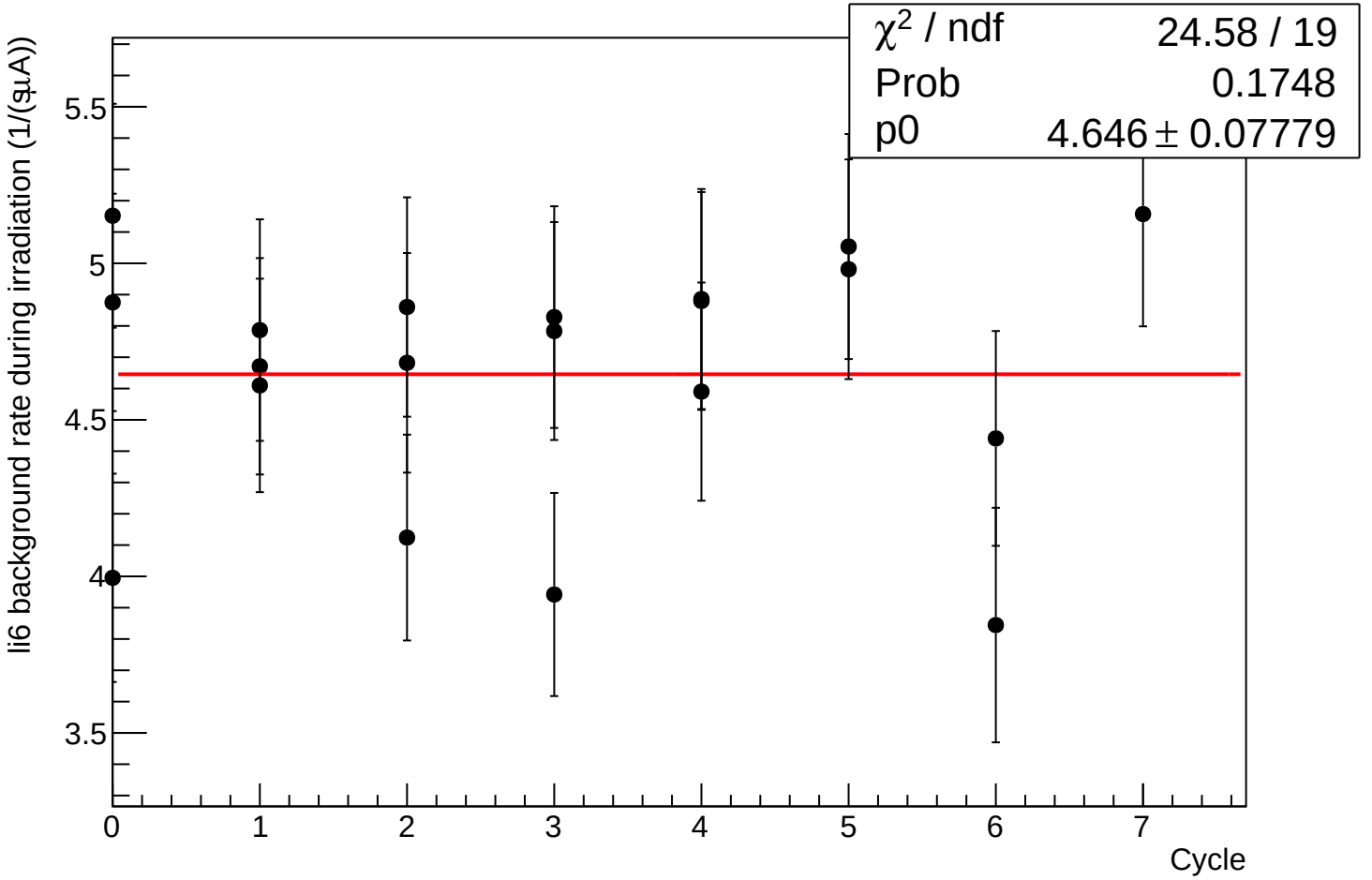

TCN18-068_0A (He3 rate)
He3_1074_3
Entries 3543
Mean 51.14
Std Dev 22.74
Integral 3543
χ² / ndf 63.6 / 47
Prob 0.05361
p0 1485 ± 421.6
τ 18.26 ± 1.18
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

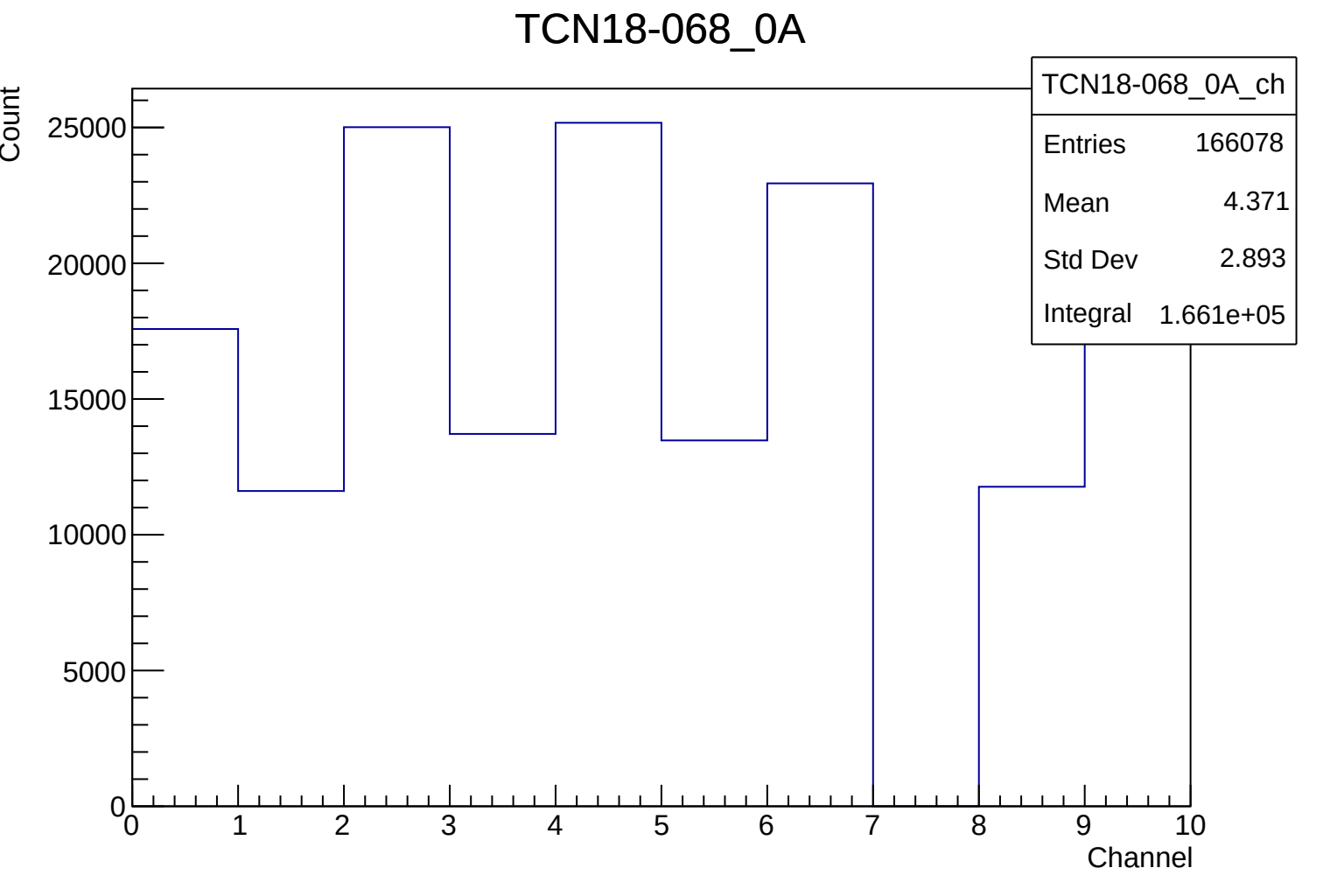

TCN18-068_0A (He3 rate)
He3_1074_5
Entries 3414
Mean 49.79
Std Dev 20.48
Integral 3414
χ² / ndf 23.83 / 28
Prob 0.6907
p0 3216 ± 1290.8
τ 15.62 ± 1.29
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN18-068_0A (He3 rate)
He3_1074_7
Entries 3294
Mean 48.78
Std Dev 20.53
Integral 3294
χ² / ndf 20.07 / 13
Prob 0.09339
p0 2438 ± 1924.8
τ 16.6 ± 3.0
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


χ^2 / ndf 11.04 / 8
Prob 0.1992
p0 16.48 ± 0.3396
Pinhole storage lifetime (s)
21
20
19
18
17
16
15
14
13
0
0.5
1
1.5
2
2.5
3
3.5
4
Cycle


li6 background rate (1/s)
Cycle
χ² / ndf 16.45 / 16
Prob 0.4222
p0 1.999 ± 0.06051
0.5
1
1.5
2
2.5
3
3.5
4
1
2
3
4
5
6
7


χ² / ndf 24.58 / 19
Prob 0.1748
p0 4.646 ± 0.07779
li6 background rate during irradiation (1/(μA))
5.5
5
4.5
4
3.5
0
1
2
3
4
5
6
7
Cycle


TCN18-068_0A
TCN18-068_0A_ch
Entries 166078
Mean 4.371
Std Dev 2.893
Integral 1.661e+05
Count
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10
Channel