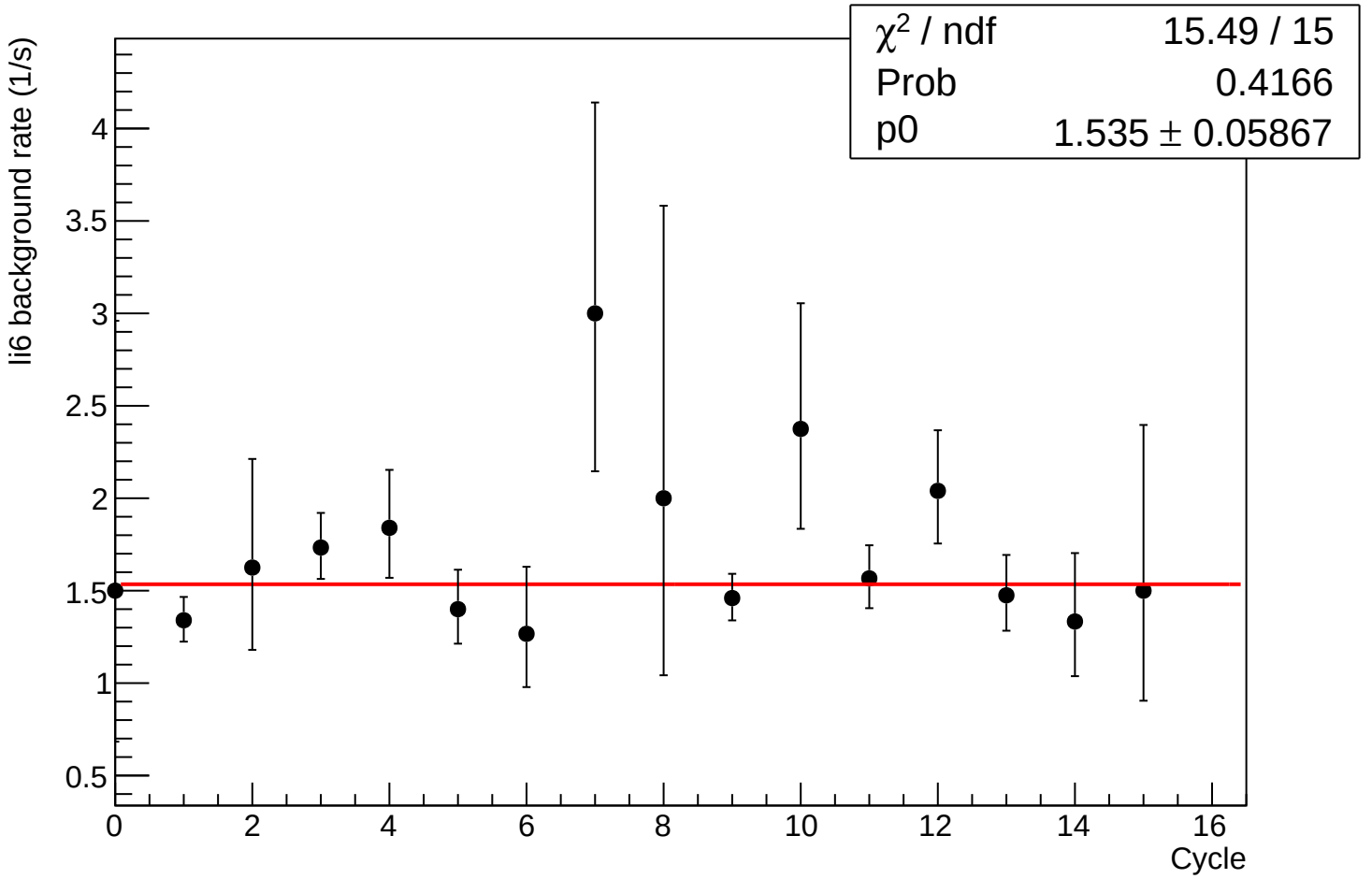
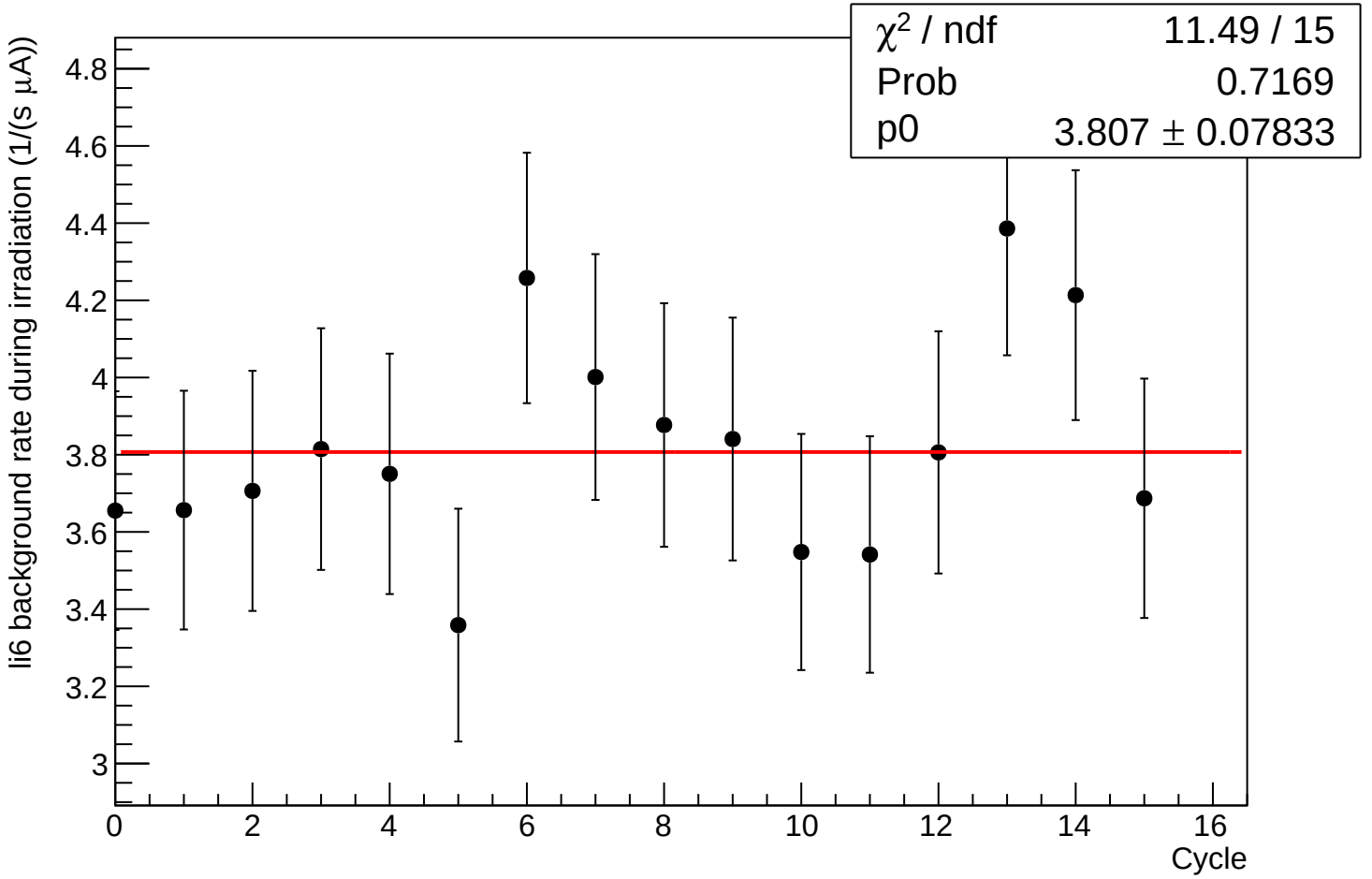
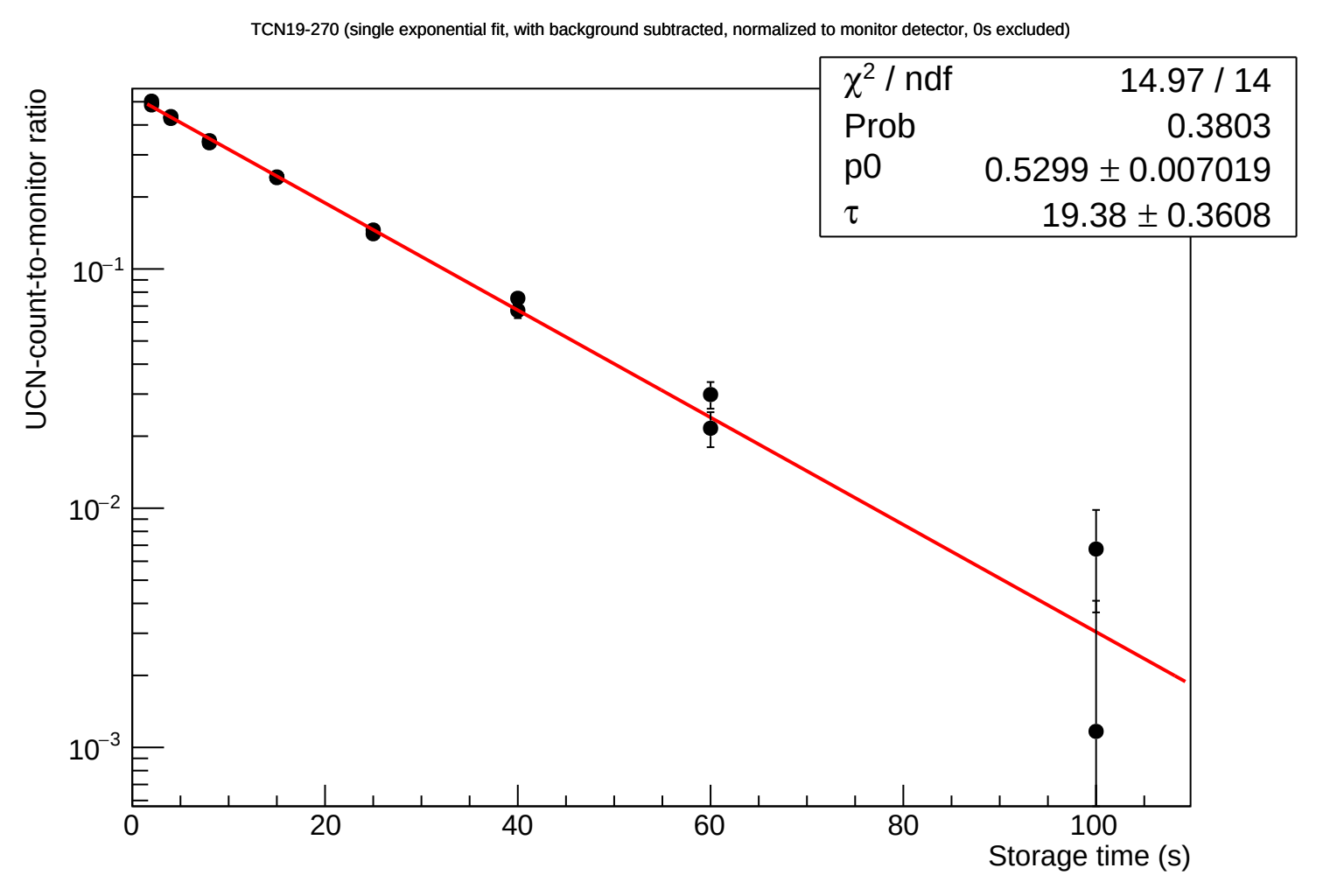
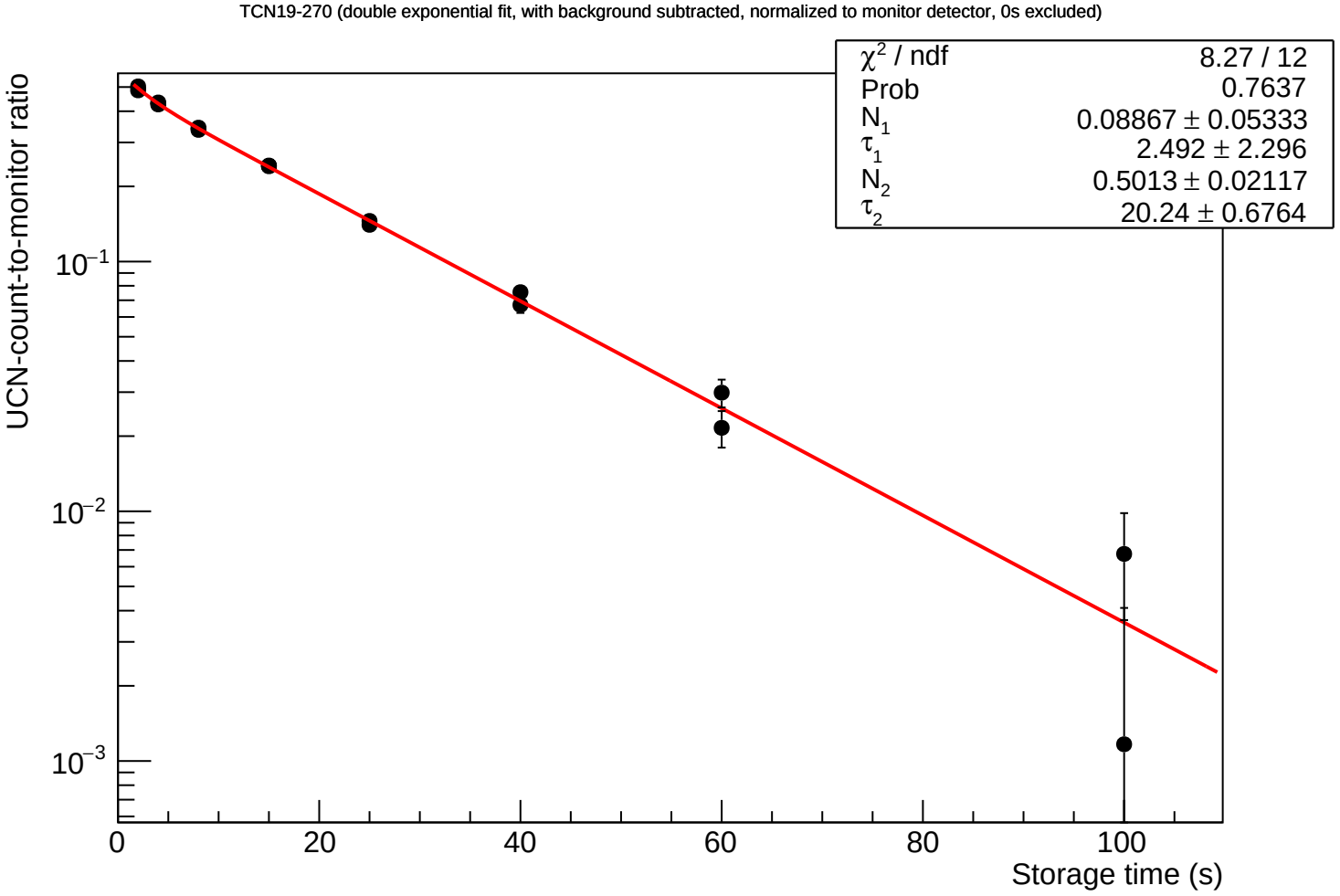
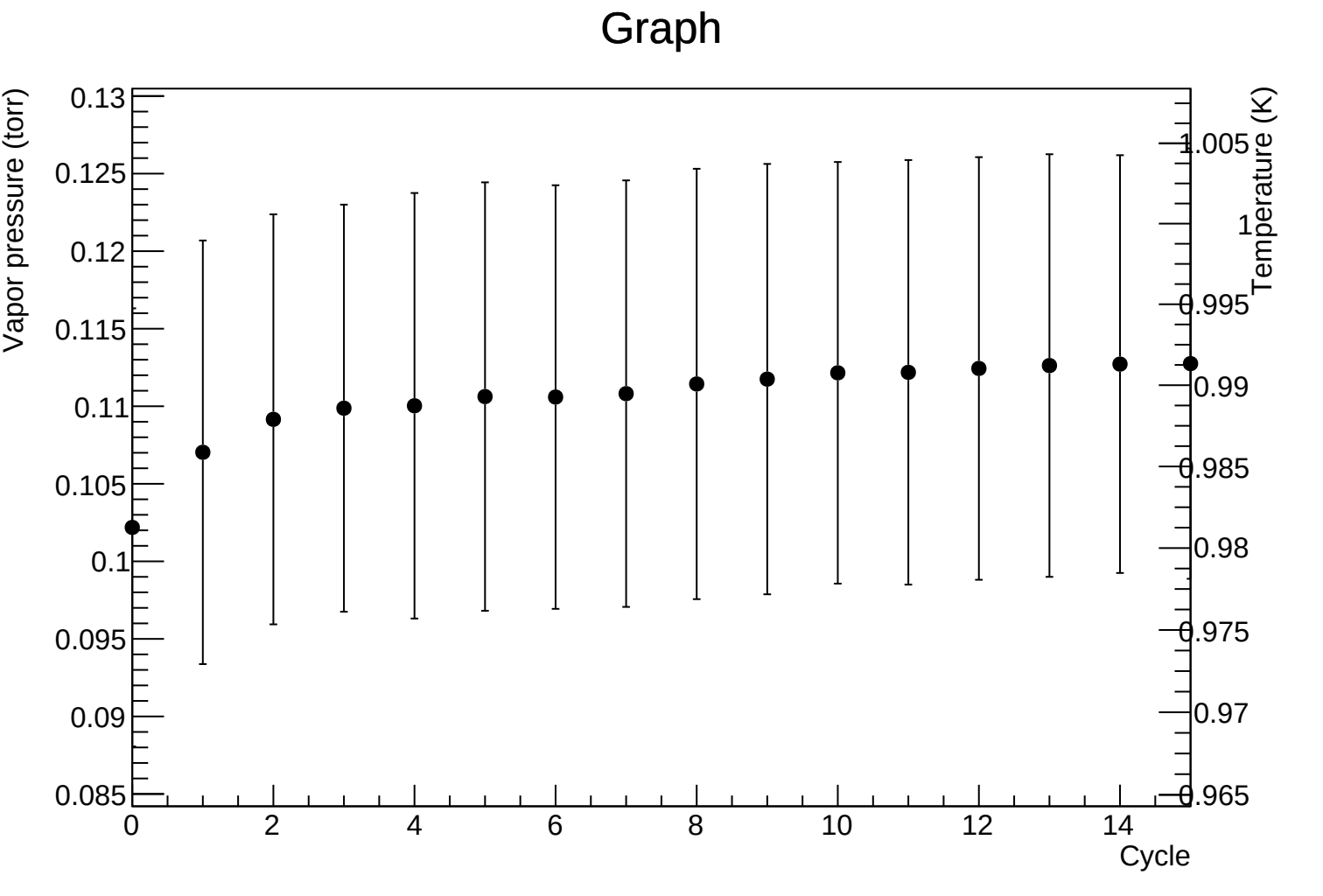
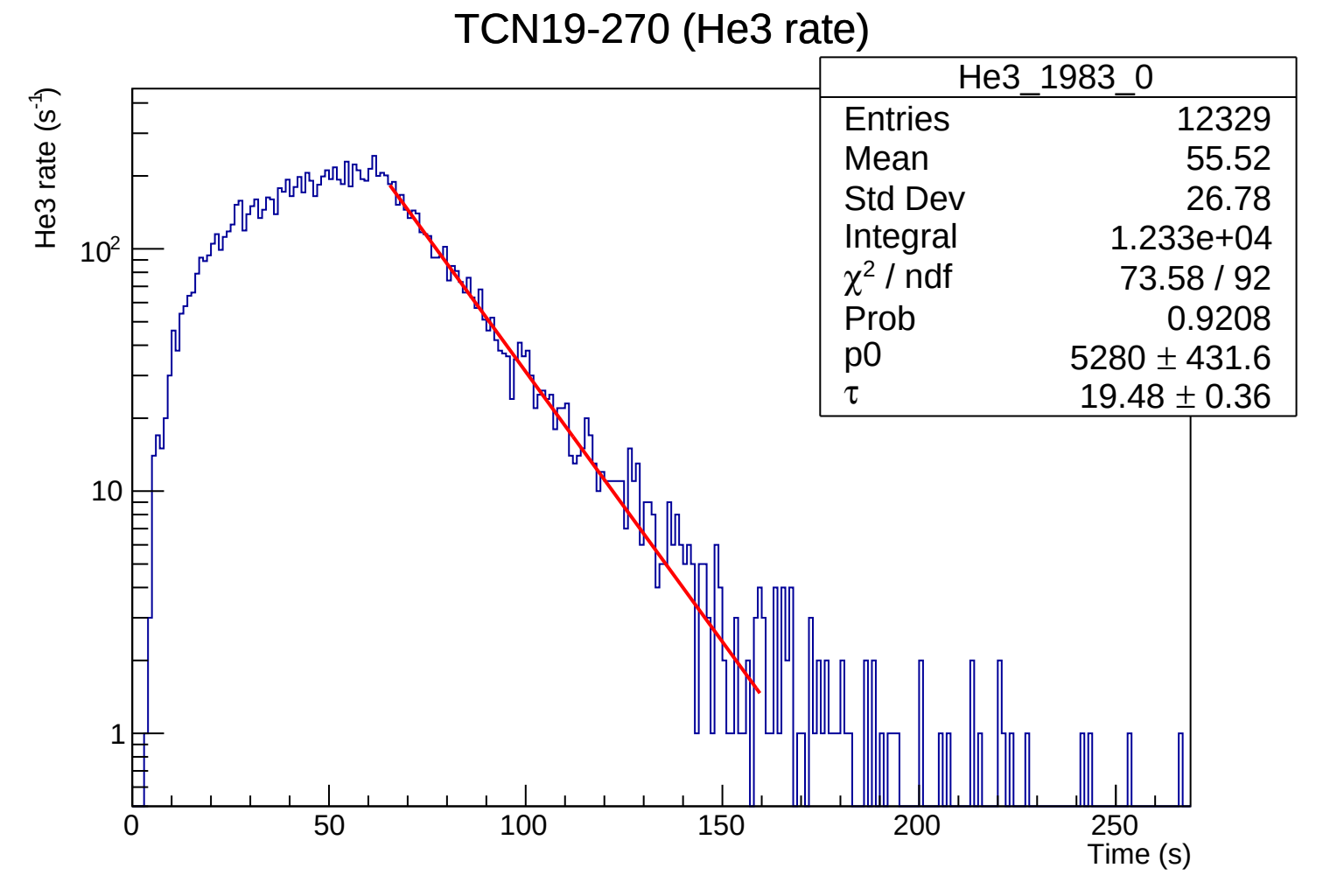

χ^2 / ndf 15.49 / 15
Prob 0.4166
p0 1.535 ± 0.05867
li6 background rate (1/s)
0.5
1
1.5
2
2.5
3
3.5
4
0
2
4
6
8
10
12
14
16
Cycle

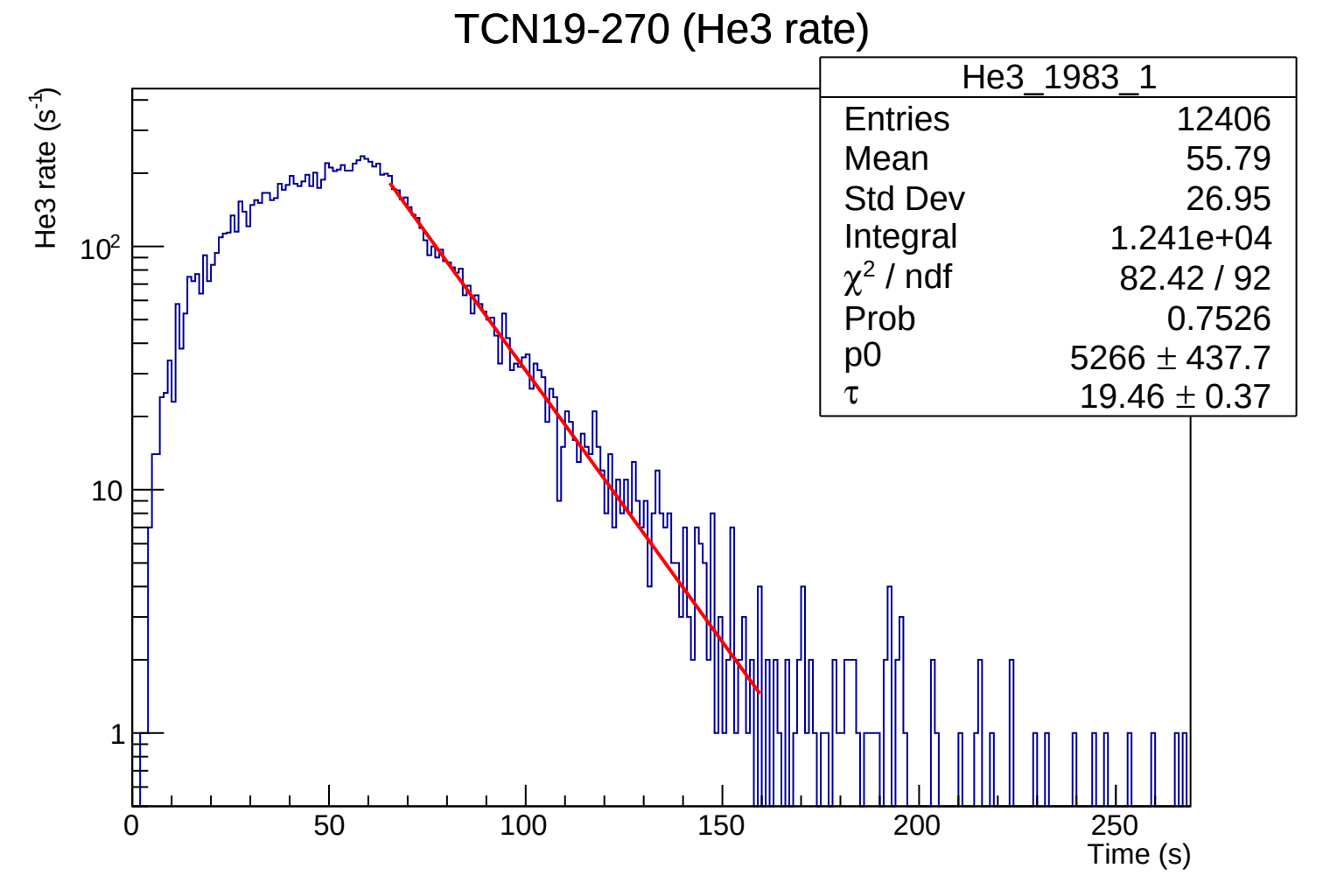

χ² / ndf 11.49 / 15
Prob 0.7169
p0 3.807 ± 0.07833
li6 background rate during irradiation (1/(s μA))
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
0
2
4
6
8
10
12
14
16
Cycle

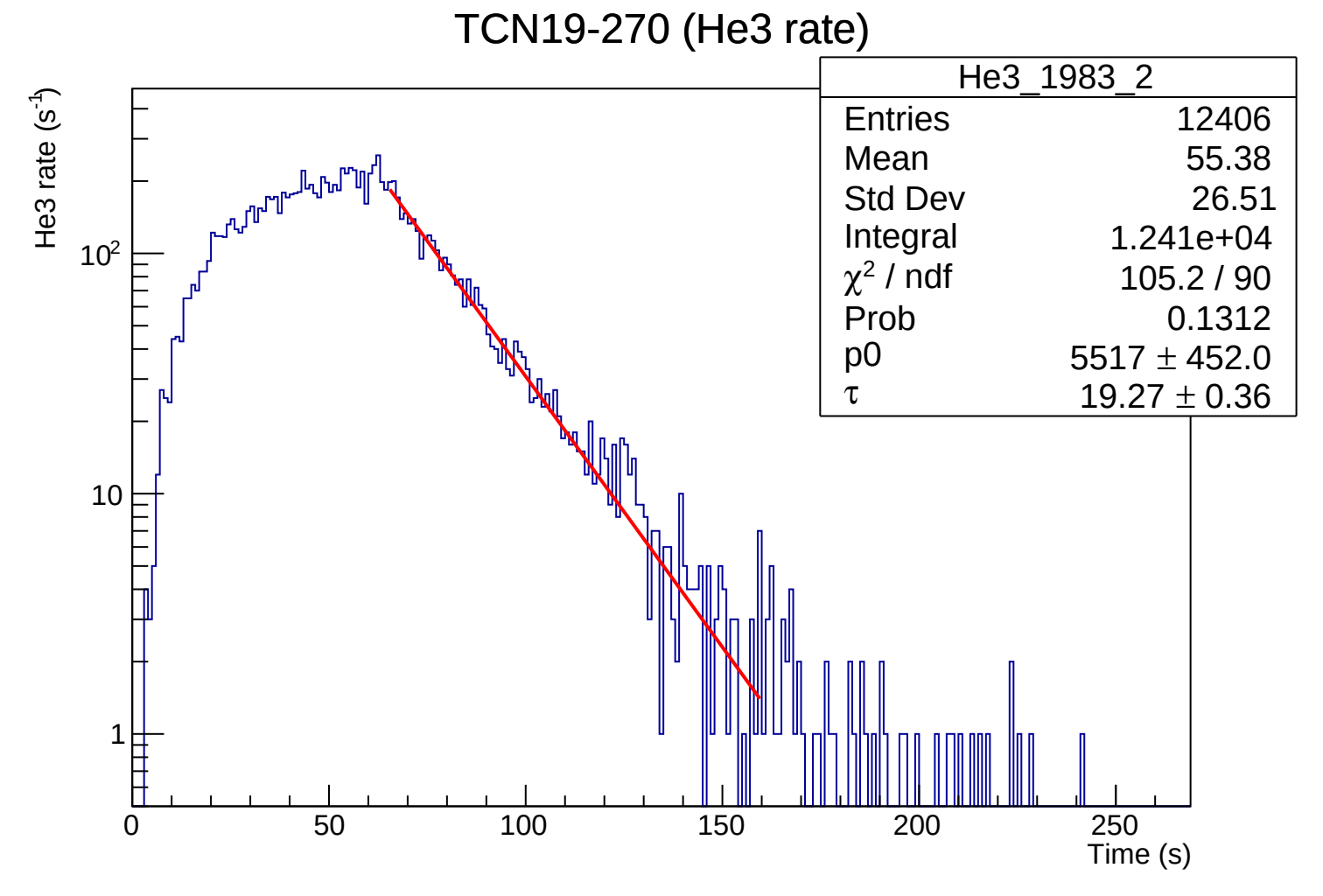

TCN19-270 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 14.97 / 14
Prob 0.3803
p0 0.5299 ± 0.007019
τ 19.38 ± 0.3608
UCN-count-to-monitor ratio
10⁻¹
10⁻²
10⁻³
0
20
40
60
80
100
Storage time (s)

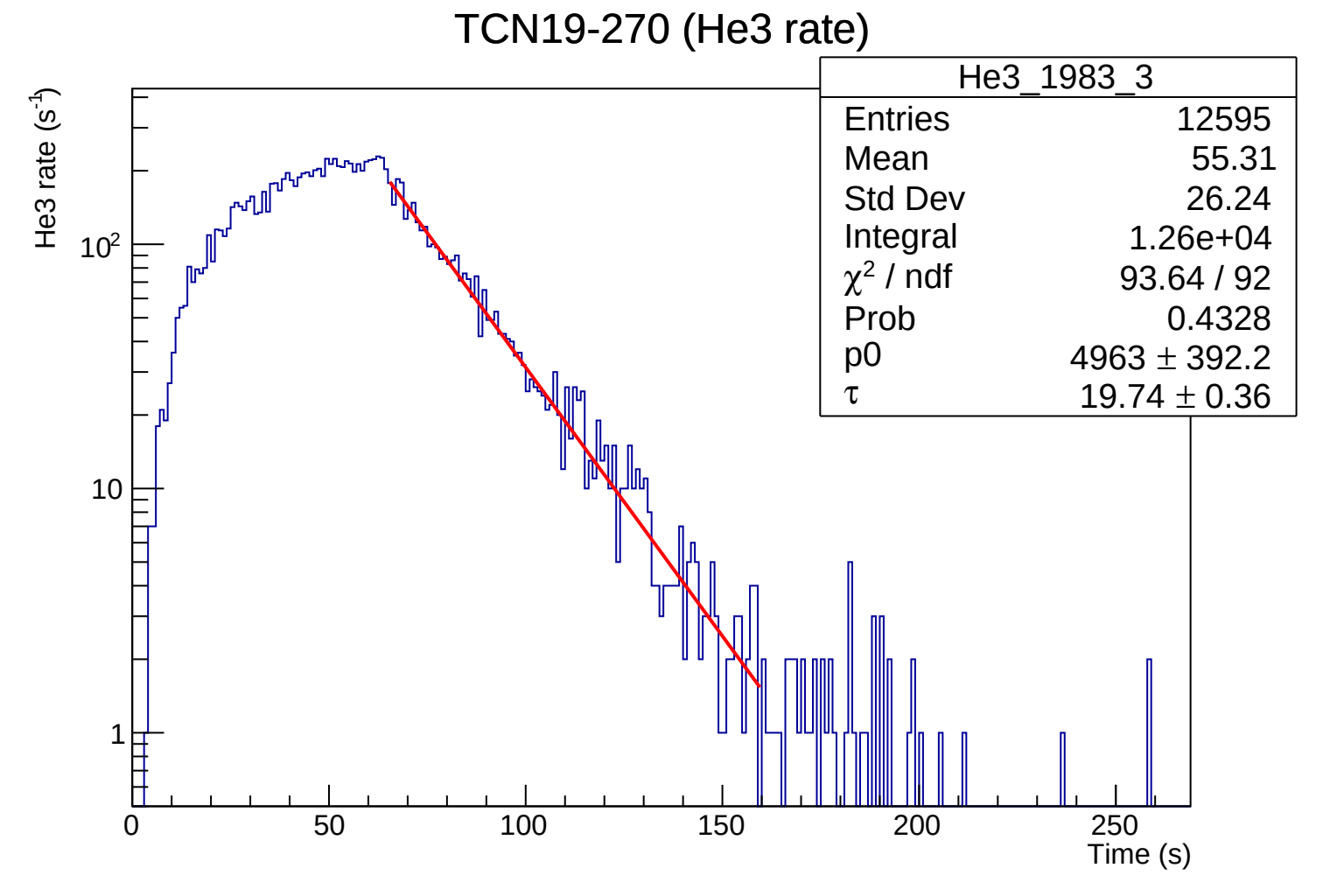

TCN19-270 (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 8.27 / 12
Prob 0.7637
N1 0.08867 ± 0.05333
τ1 2.492 ± 2.296
N2 0.5013 ± 0.02117
τ2 20.24 ± 0.6764
UCN-count-to-monitor ratio
10⁻¹
10⁻²
10⁻³
0
20
40
60
80
100
Storage time (s)

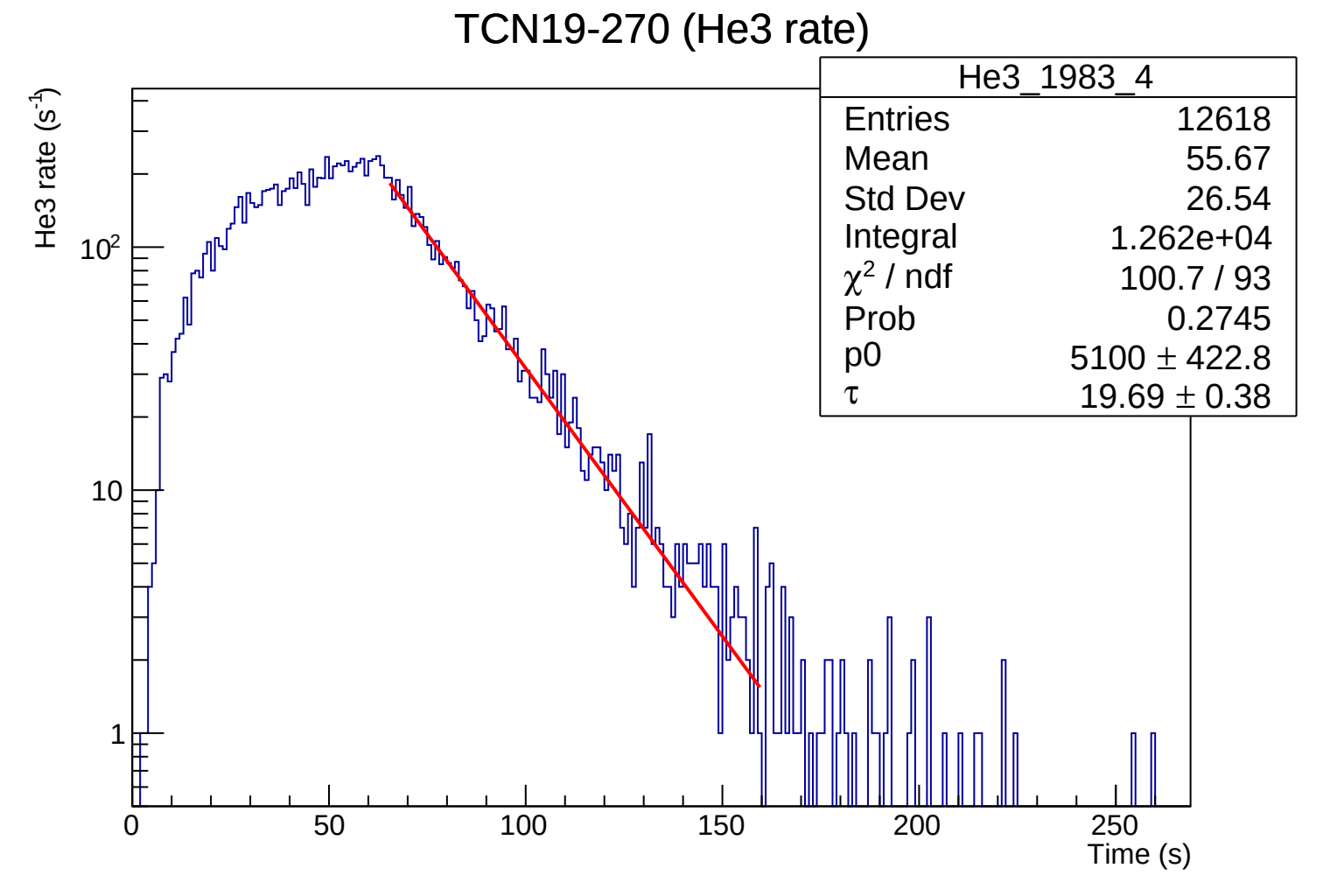

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.13
0.125
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085
1.005
1
0.995
0.99
0.985
0.98
0.975
0.97
0.965
0
2
4
6
8
10
12
14

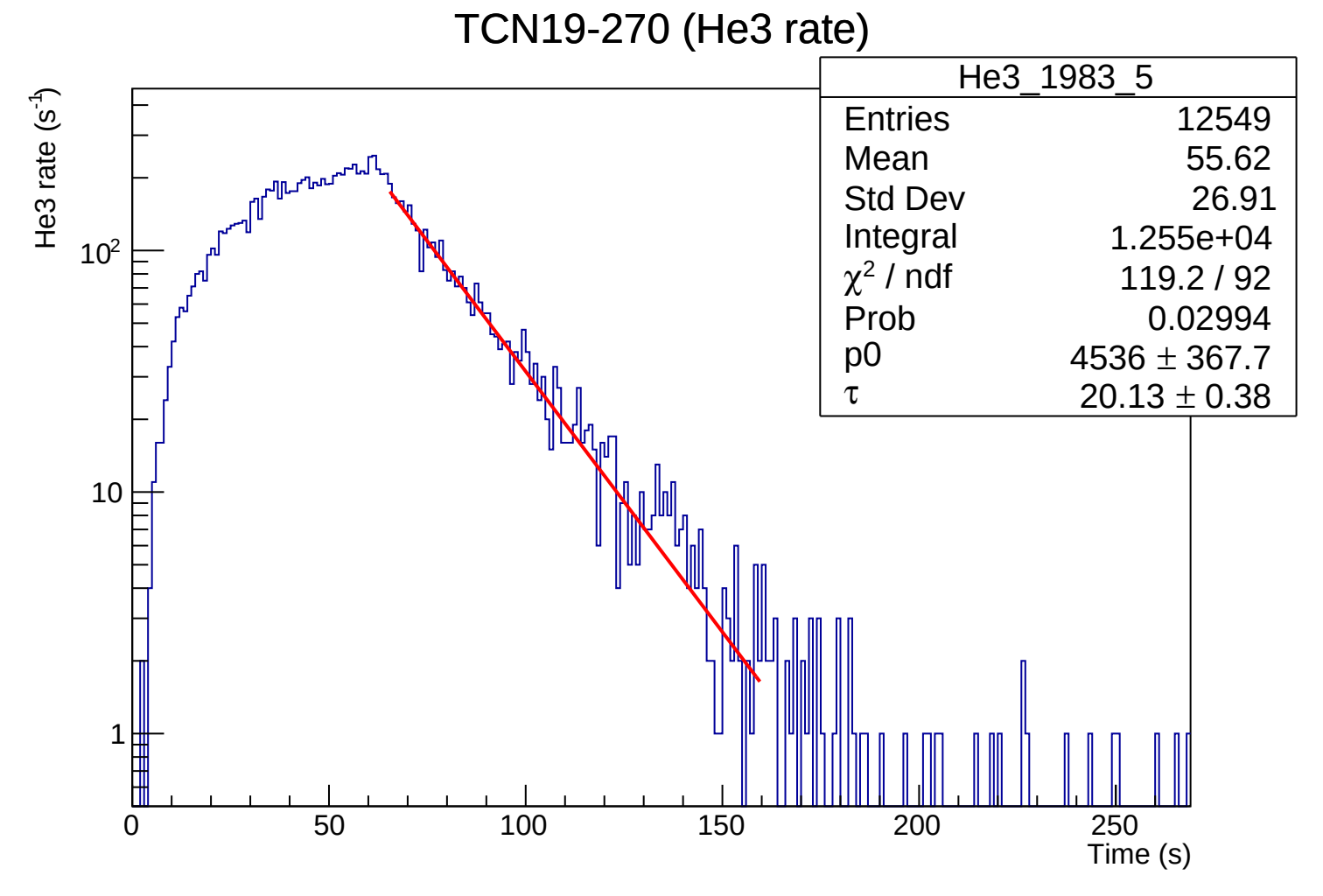

TCN19-270 (He3 rate)
He3_1983_0
Entries 12329
Mean 55.52
Std Dev 26.78
Integral 1.233e+04
χ² / ndf 73.58 / 92
Prob 0.9208
p0 5280 ± 431.6
τ 19.48 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

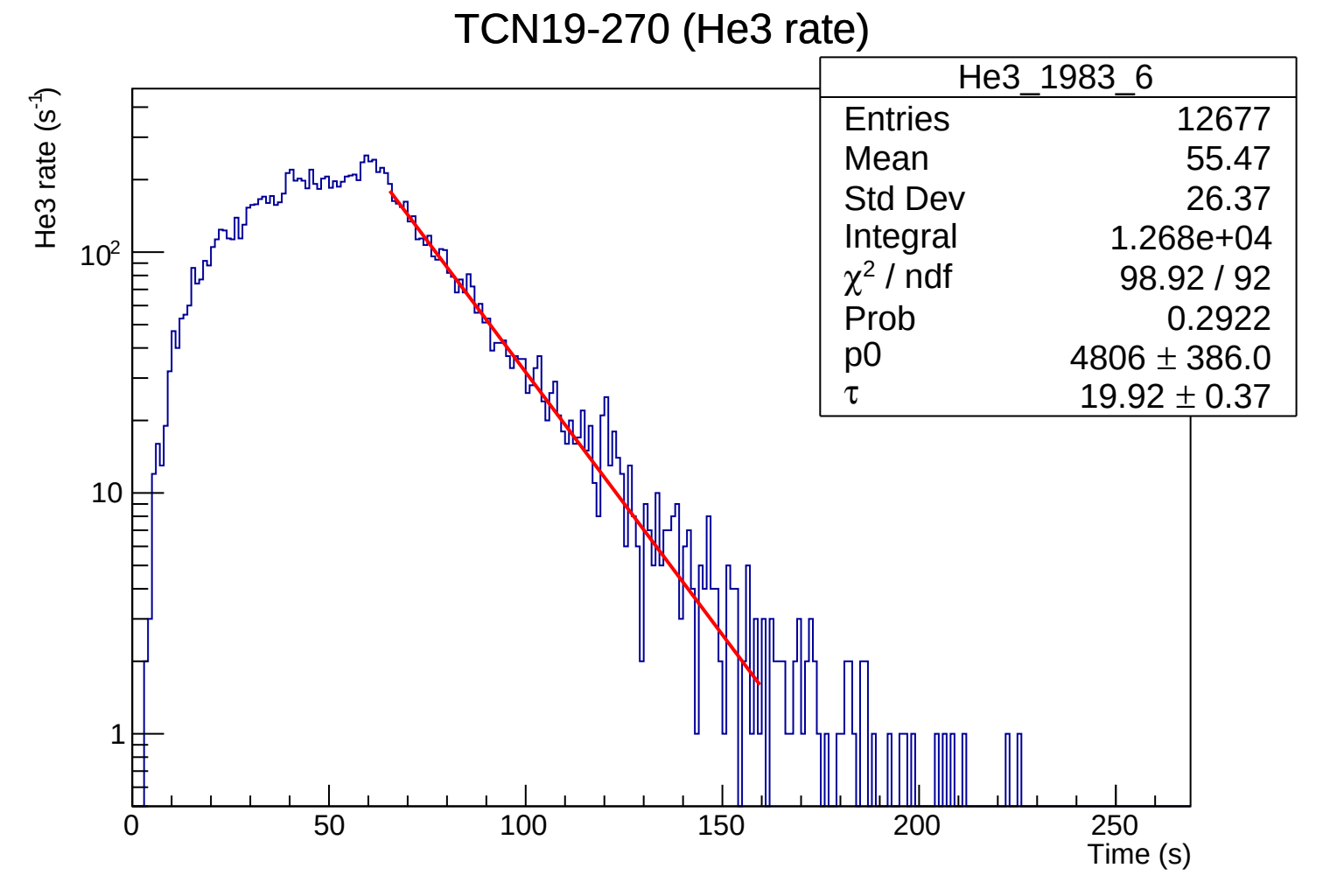

TCN19-270 (He3 rate)
He3_1983_1
Entries 12406
Mean 55.79
Std Dev 26.95
Integral 1.241e+04
χ² / ndf 82.42 / 92
Prob 0.7526
p0 5266 ± 437.7
τ 19.46 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

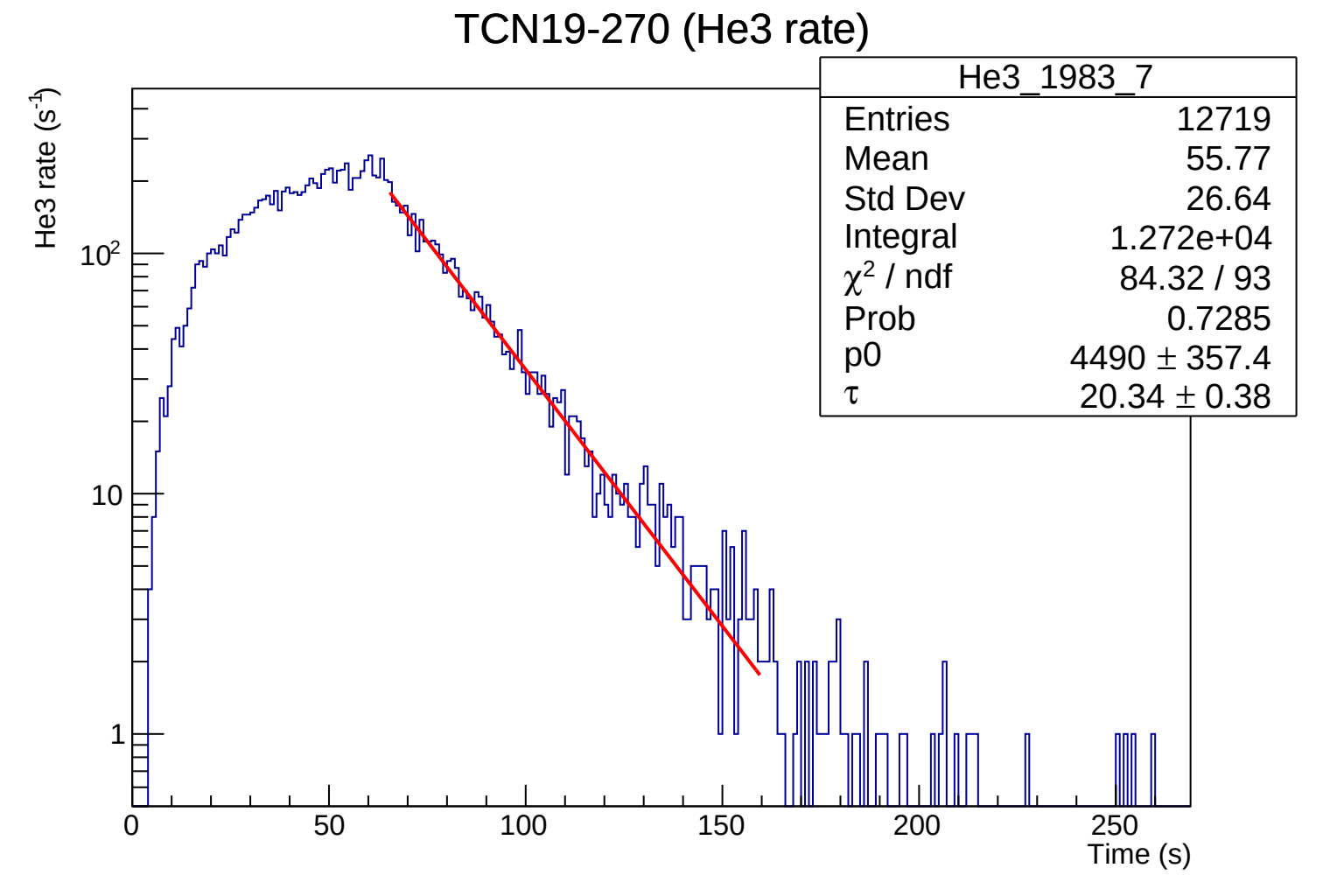

TCN19-270 (He3 rate)
He3_1983_2
Entries 12406
Mean 55.38
Std Dev 26.51
Integral 1.241e+04
χ² / ndf 105.2 / 90
Prob 0.1312
p0 5517 ± 452.0
τ 19.27 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

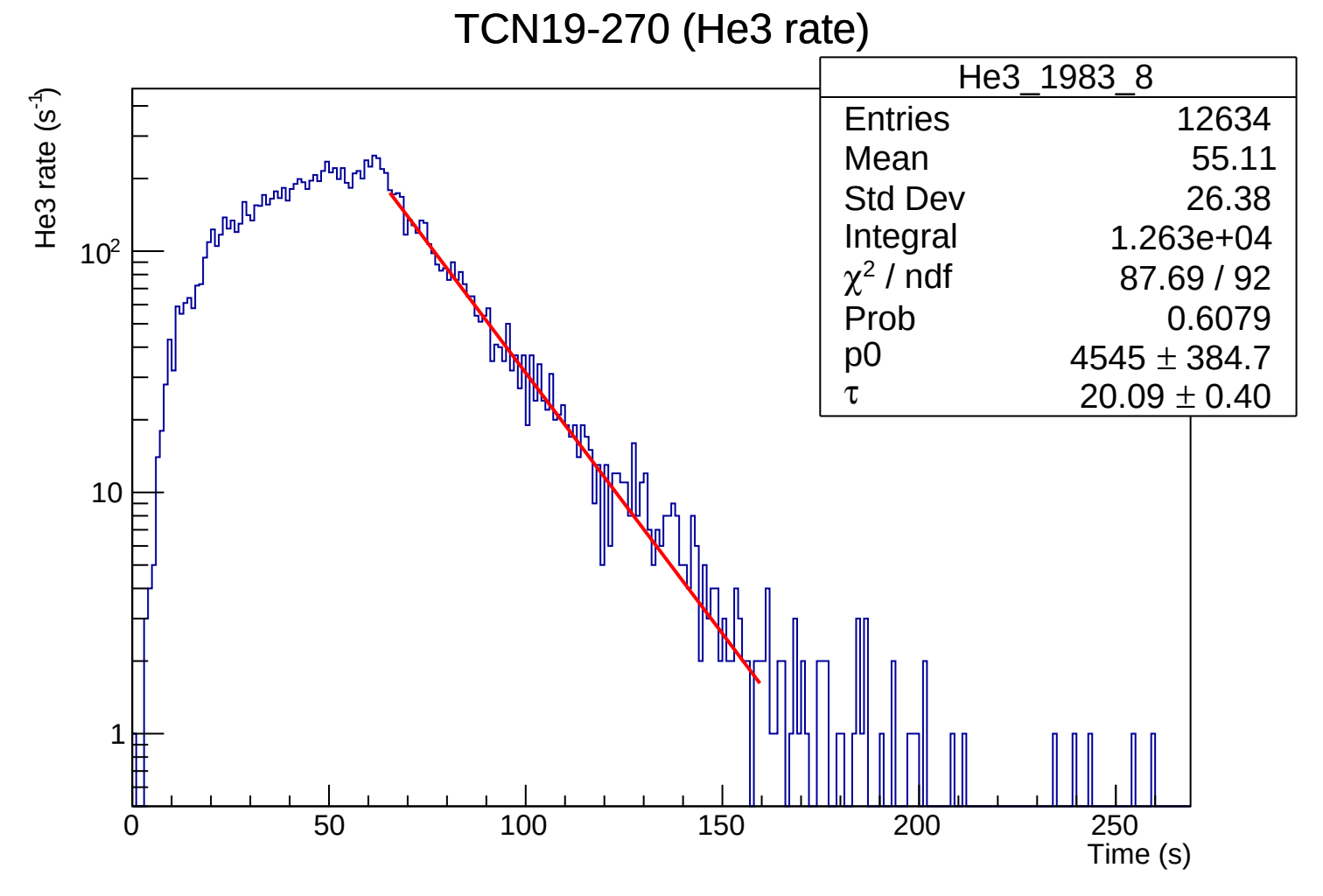

TCN19-270 (He3 rate)
He3_1983_3
Entries 12595
Mean 55.31
Std Dev 26.24
Integral 1.26e+04
χ² / ndf 93.64 / 92
Prob 0.4328
p0 4963 ± 392.2
τ 19.74 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

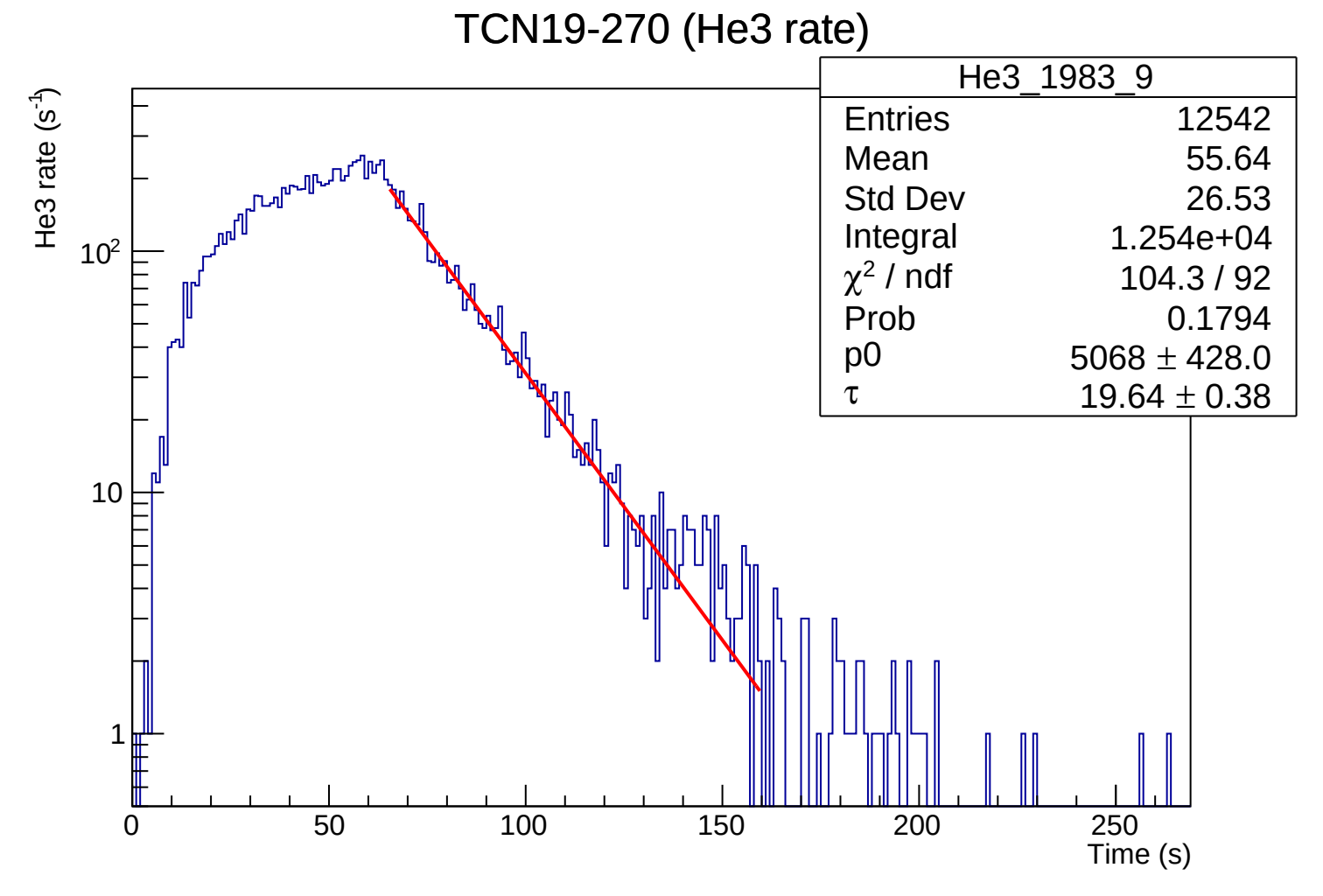

TCN19-270 (He3 rate)
He3_1983_4
Entries 12618
Mean 55.67
Std Dev 26.54
Integral 1.262e+04
χ² / ndf 100.7 / 93
Prob 0.2745
p0 5100 ± 422.8
τ 19.69 ± 0.38
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

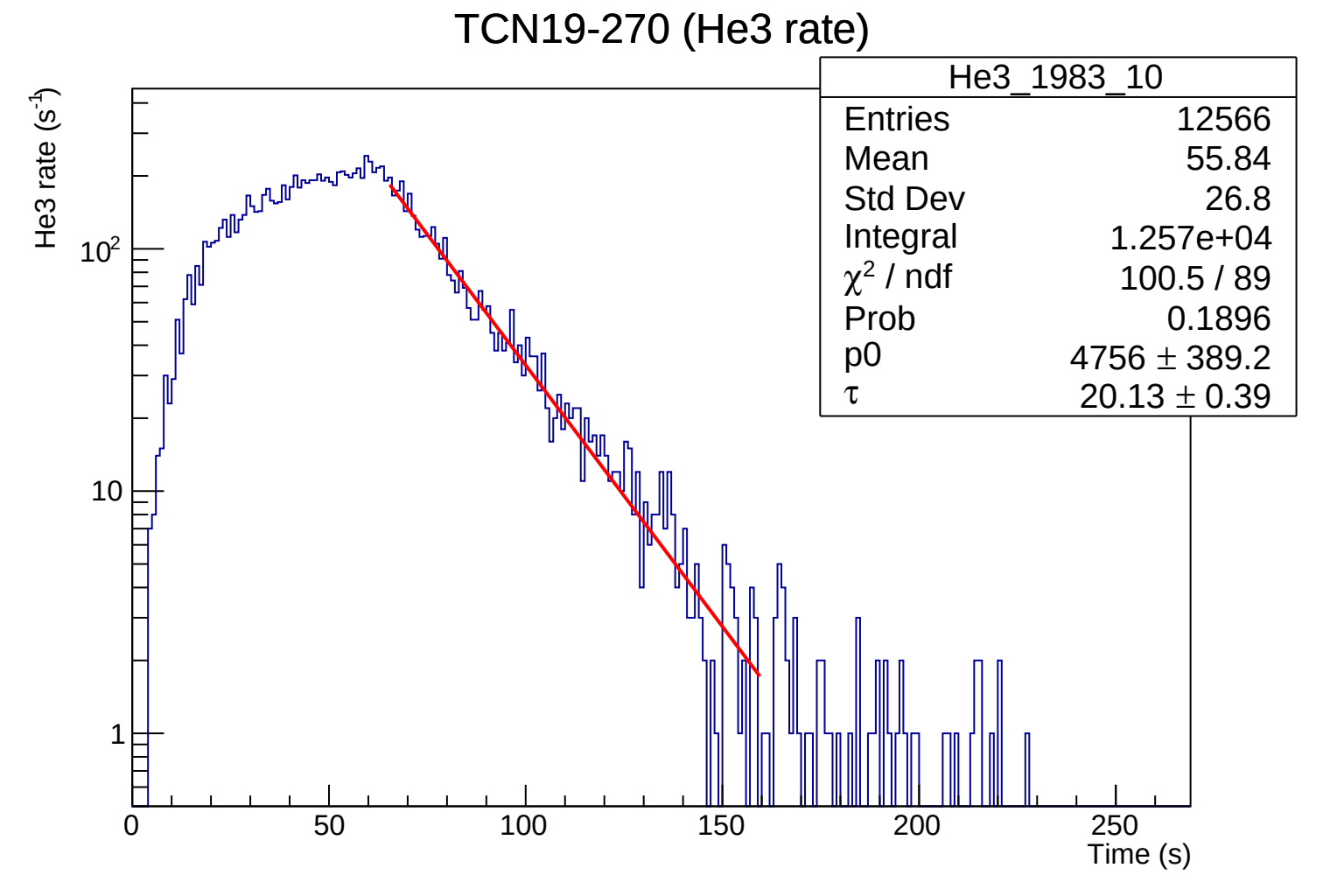

TCN19-270 (He3 rate)
He3_1983_5
Entries 12549
Mean 55.62
Std Dev 26.91
Integral 1.255e+04
χ² / ndf 119.2 / 92
Prob 0.02994
p0 4536 ± 367.7
τ 20.13 ± 0.38
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

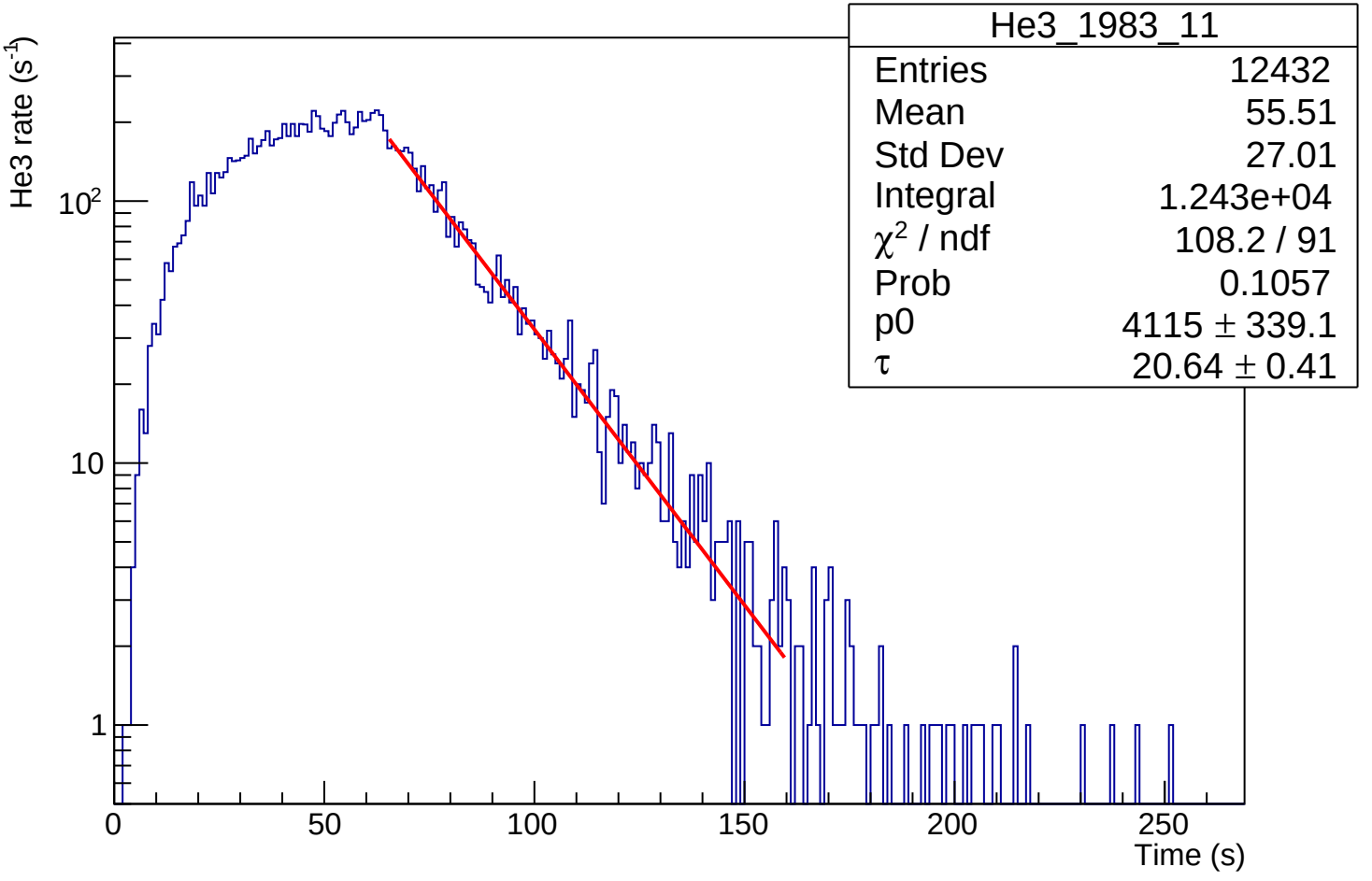

TCN19-270 (He3 rate)
He3_1983_6
Entries 12677
Mean 55.47
Std Dev 26.37
Integral 1.268e+04
χ² / ndf 98.92 / 92
Prob 0.2922
p0 4806 ± 386.0
τ 19.92 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

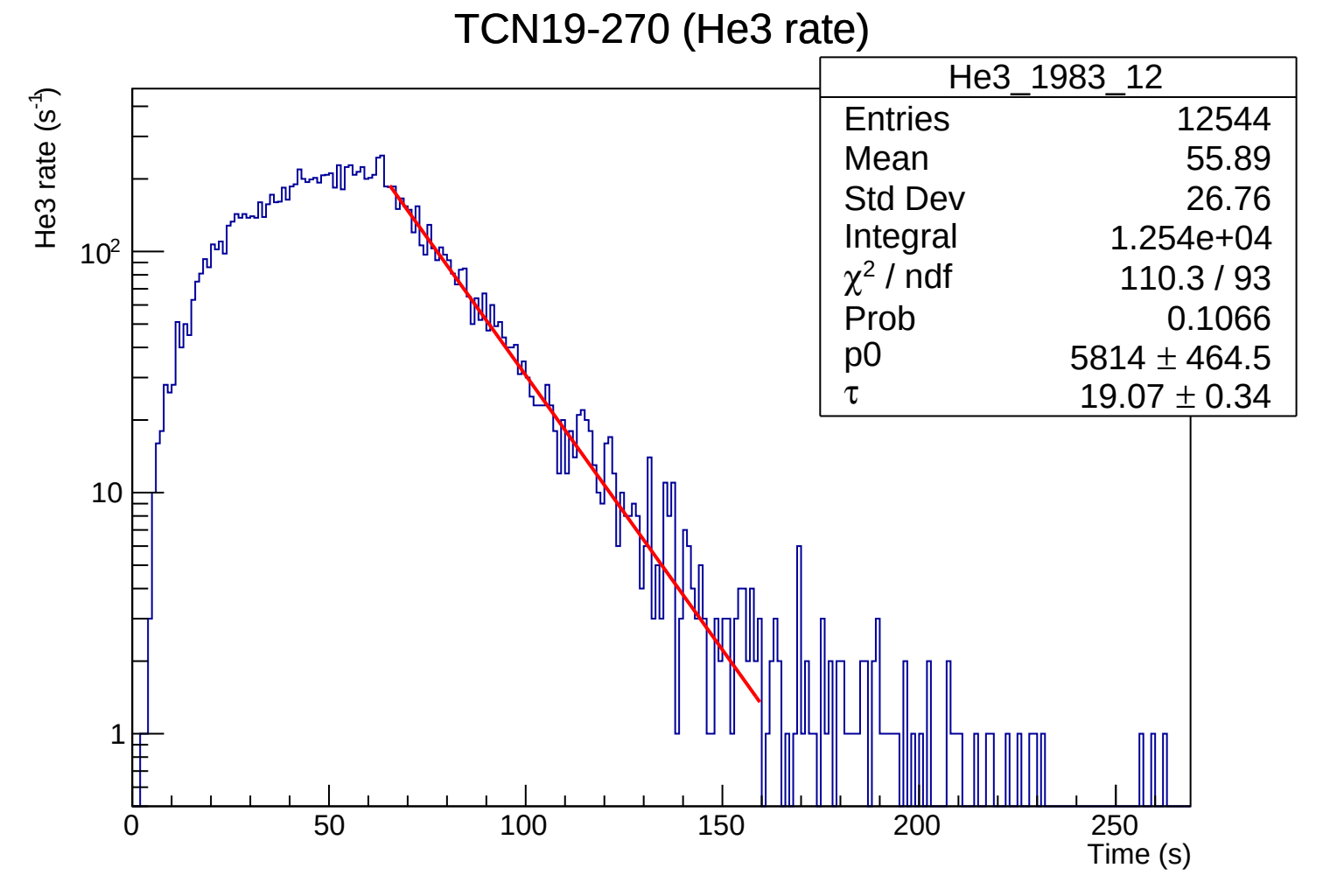

TCN19-270 (He3 rate)
He3_1983_7
Entries 12719
Mean 55.77
Std Dev 26.64
Integral 1.272e+04
χ² / ndf 84.32 / 93
Prob 0.7285
p0 4490 ± 357.4
τ 20.34 ± 0.38
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

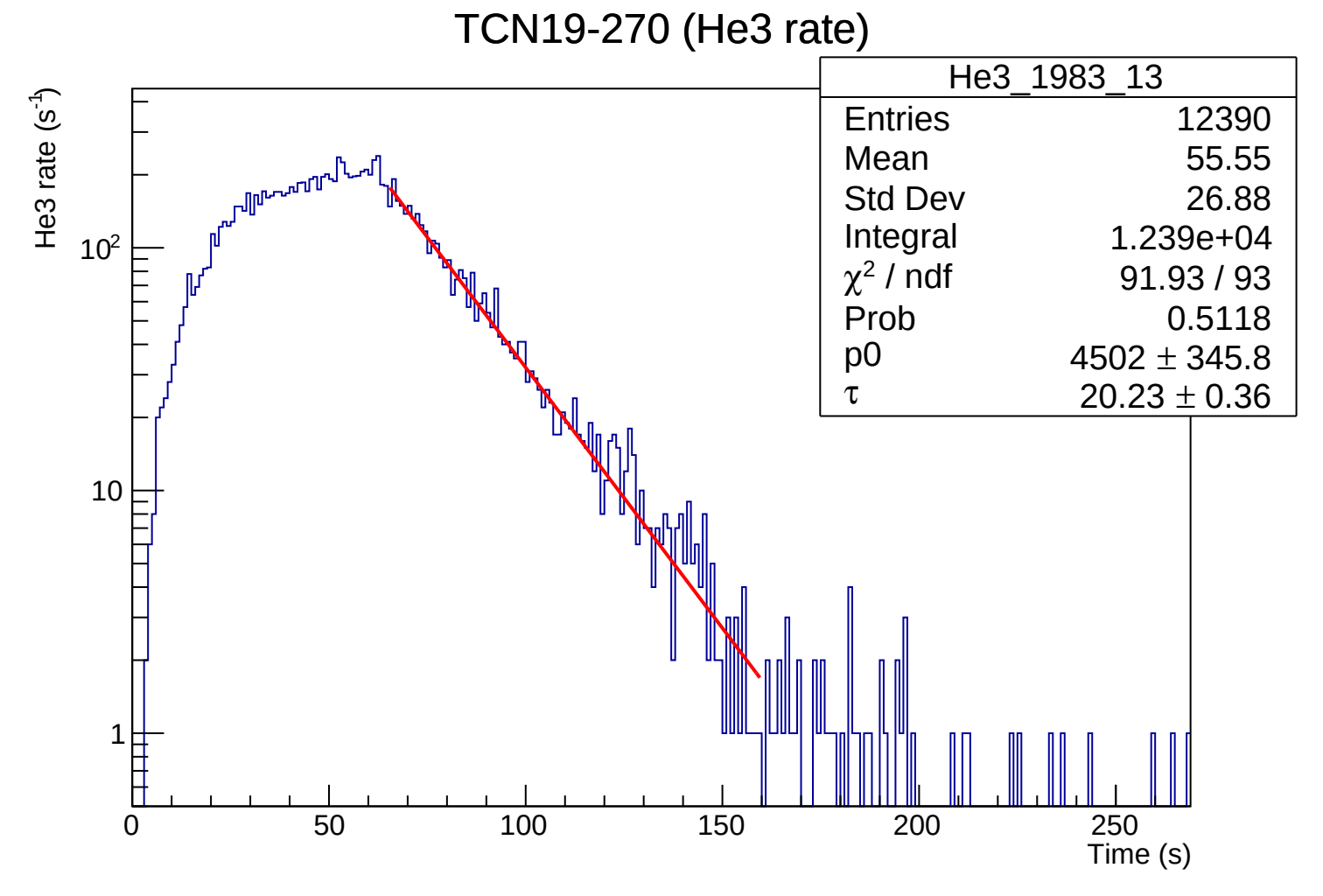

TCN19-270 (He3 rate)
He3_1983_8
Entries 12634
Mean 55.11
Std Dev 26.38
Integral 1.263e+04
χ² / ndf 87.69 / 92
Prob 0.6079
p0 4545 ± 384.7
τ 20.09 ± 0.40
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

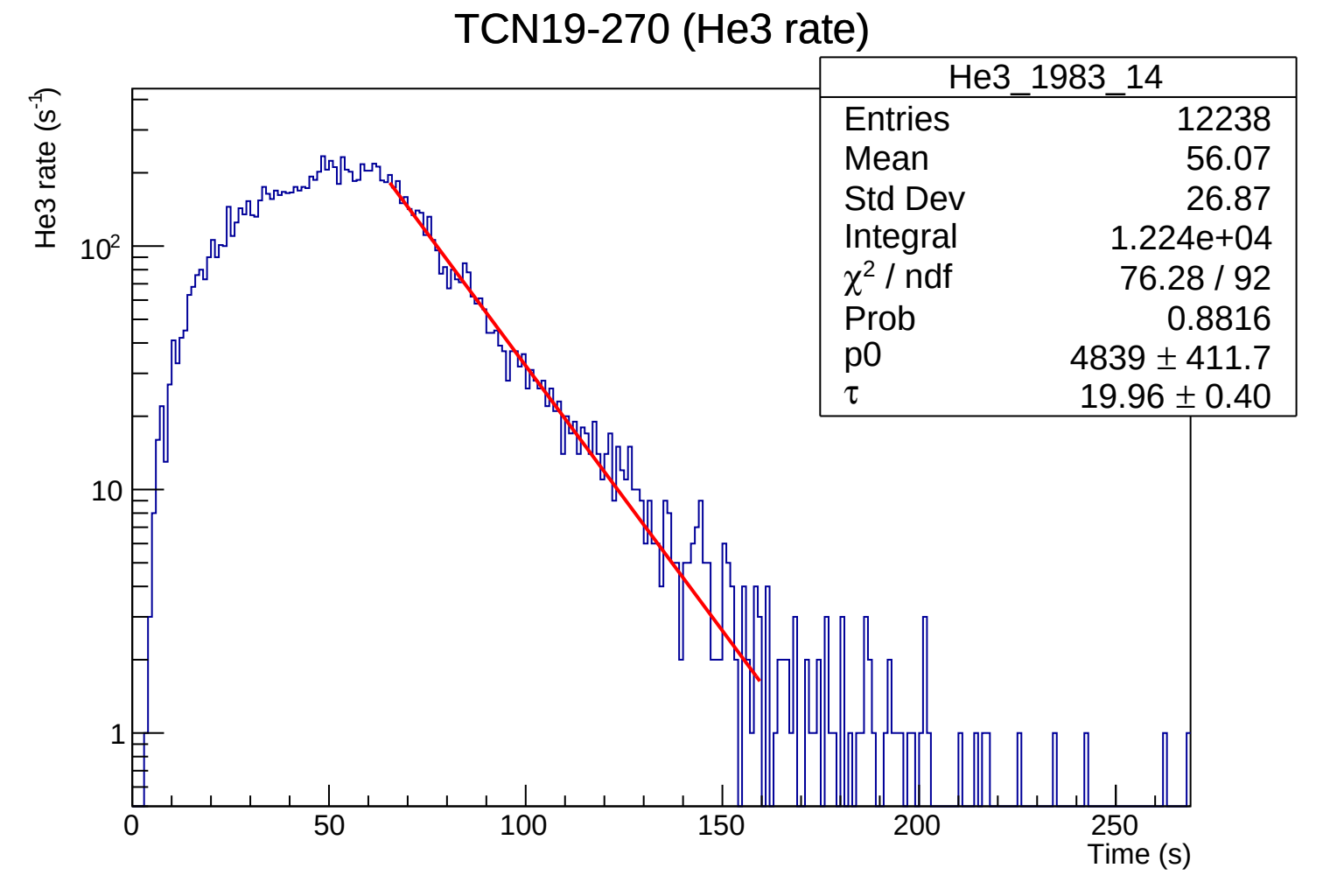

TCN19-270 (He3 rate)
He3_1983_9
Entries 12542
Mean 55.64
Std Dev 26.53
Integral 1.254e+04
χ² / ndf 104.3 / 92
Prob 0.1794
p0 5068 ± 428.0
τ 19.64 ± 0.38
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

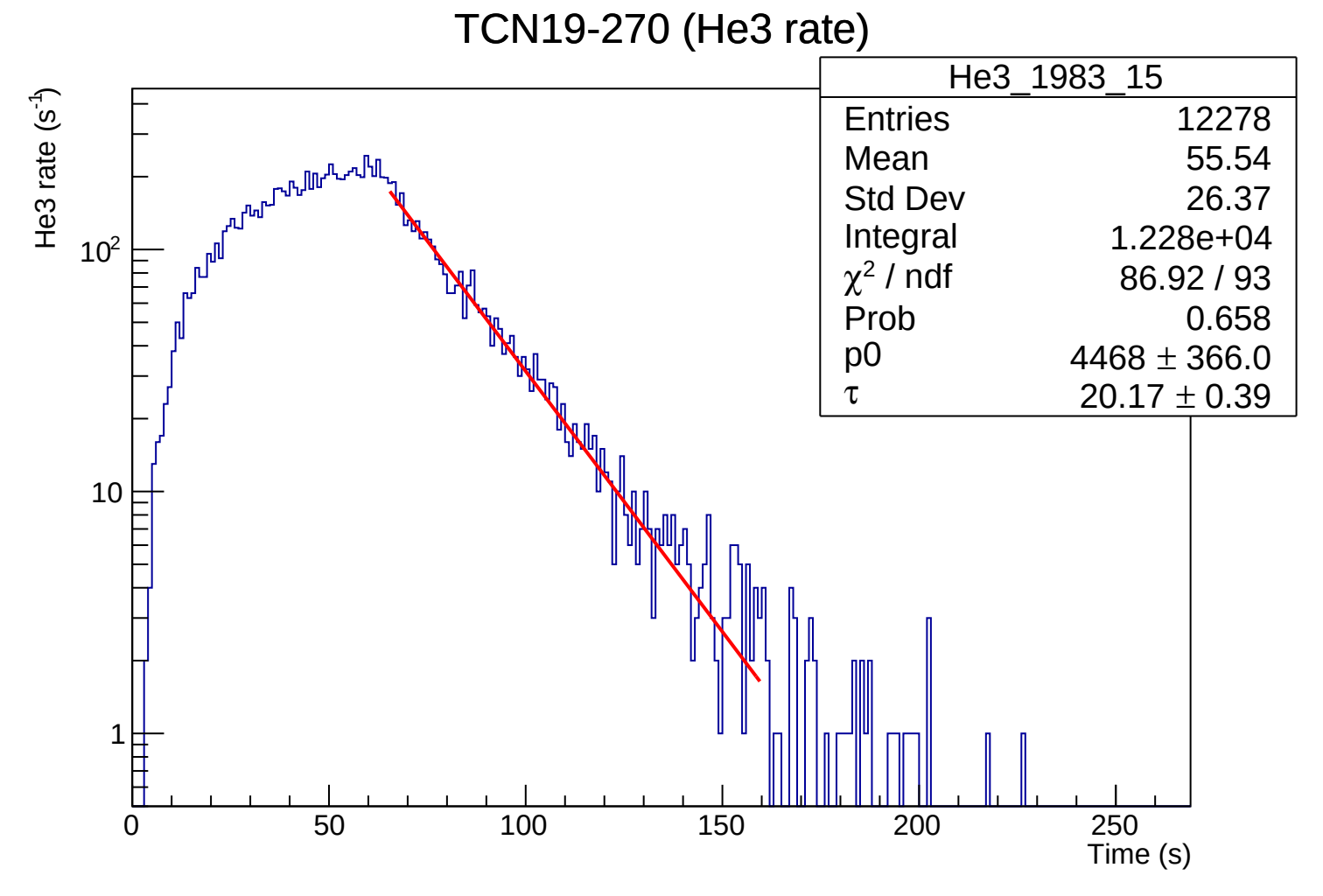

TCN19-270 (He3 rate)
He3_1983_10
Entries 12566
Mean 55.84
Std Dev 26.8
Integral 1.257e+04
χ² / ndf 100.5 / 89
Prob 0.1896
p0 4756 ± 389.2
τ 20.13 ± 0.39
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

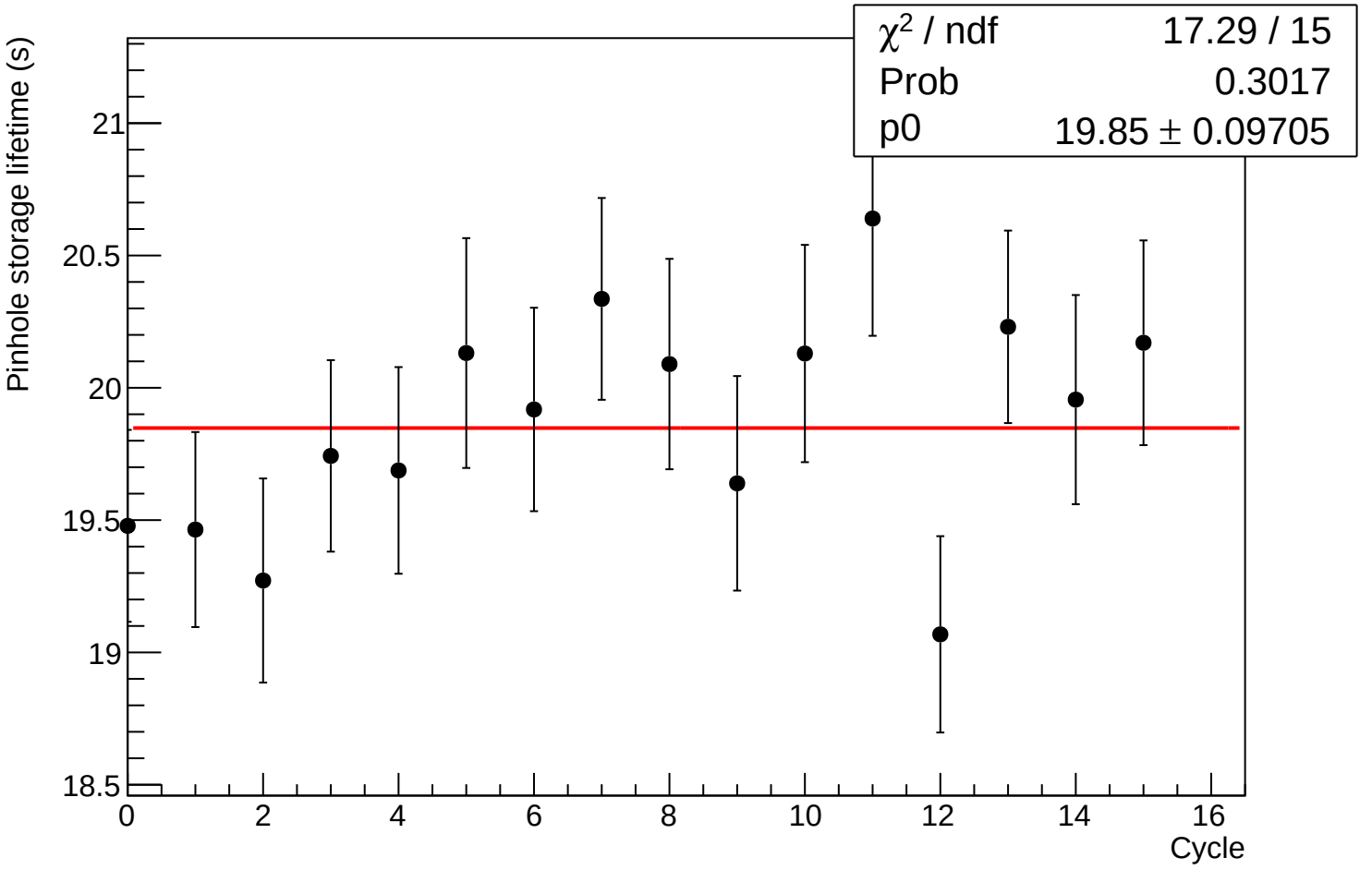

TCN19-270 (He3 rate)
He3_1983_11
Entries 12432
Mean 55.51
Std Dev 27.01
Integral 1.243e+04
χ² / ndf 108.2 / 91
Prob 0.1057
p0 4115 ± 339.1
τ 20.64 ± 0.41
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

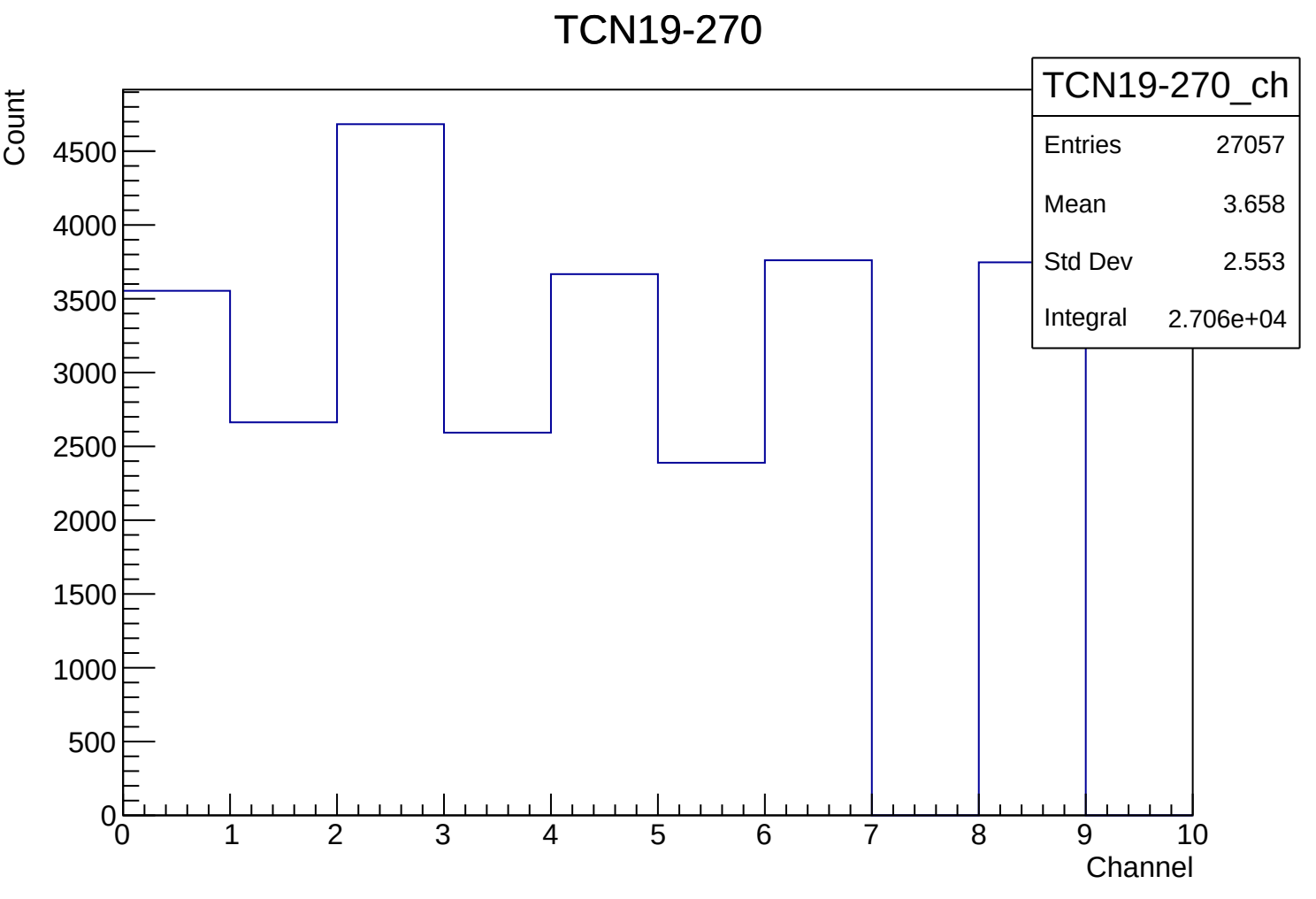

TCN19-270 (He3 rate)
He3_1983_12
Entries 12544
Mean 55.89
Std Dev 26.76
Integral 1.254e+04
χ² / ndf 110.3 / 93
Prob 0.1066
p0 5814 ± 464.5
τ 19.07 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-270 (He3 rate)
He3_1983_13
Entries 12390
Mean 55.55
Std Dev 26.88
Integral 1.239e+04
χ² / ndf 91.93 / 93
Prob 0.5118
p0 4502 ± 345.8
τ 20.23 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-270 (He3 rate)
He3_1983_14
Entries 12238
Mean 56.07
Std Dev 26.87
Integral 1.224e+04
χ² / ndf 76.28 / 92
Prob 0.8816
p0 4839 ± 411.7
τ 19.96 ± 0.40
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-270 (He3 rate)
He3_1983_15
Entries 12278
Mean 55.54
Std Dev 26.37
Integral 1.228e+04
χ² / ndf 86.92 / 93
Prob 0.658
p0 4468 ± 366.0
τ 20.17 ± 0.39
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


χ^2 / ndf 17.29 / 15
Prob 0.3017
p0 19.85 ± 0.09705
Pinhole storage lifetime (s)
21
20.5
20
19.5
19
18.5
0
2
4
6
8
10
12
14
16
Cycle


TCN19-270
TCN19-270_ch
Entries 27057
Mean 3.658
Std Dev 2.553
Integral 2.706e+04
Count
0
500
1000
1500
2000
2500
3000
3500
4000
4500
0
1
2
3
4
5
6
7
8
9
10
Channel