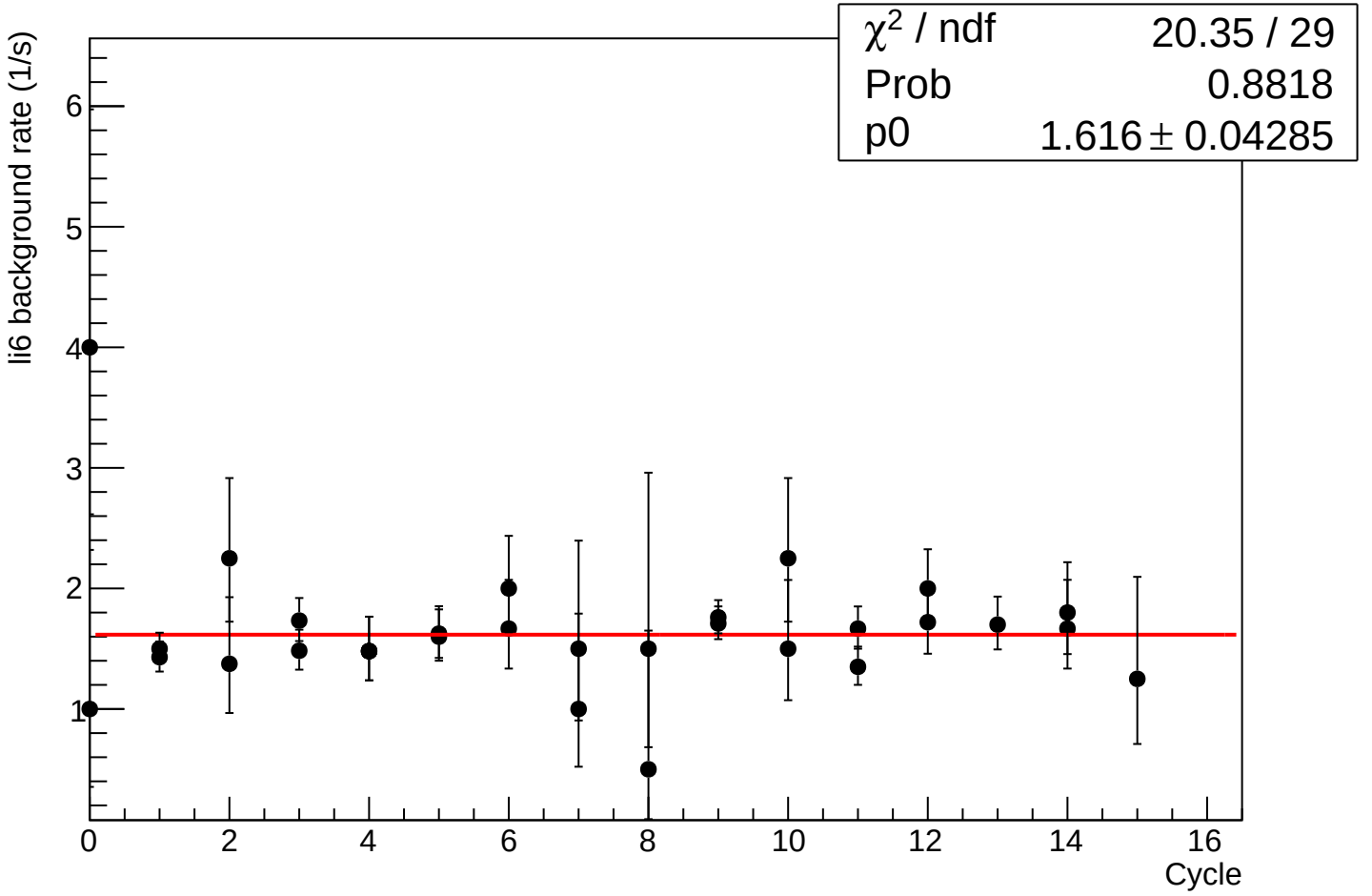
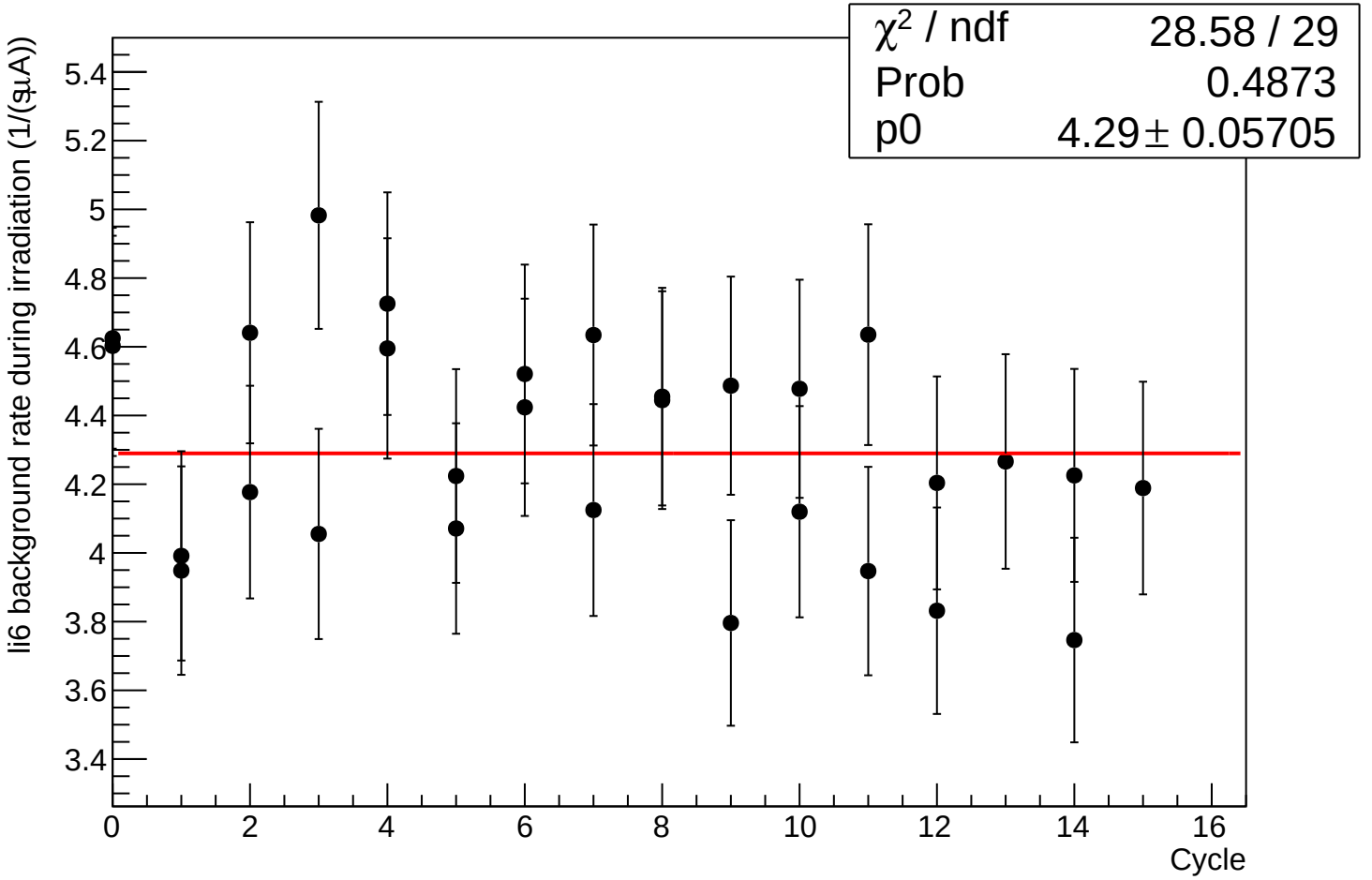
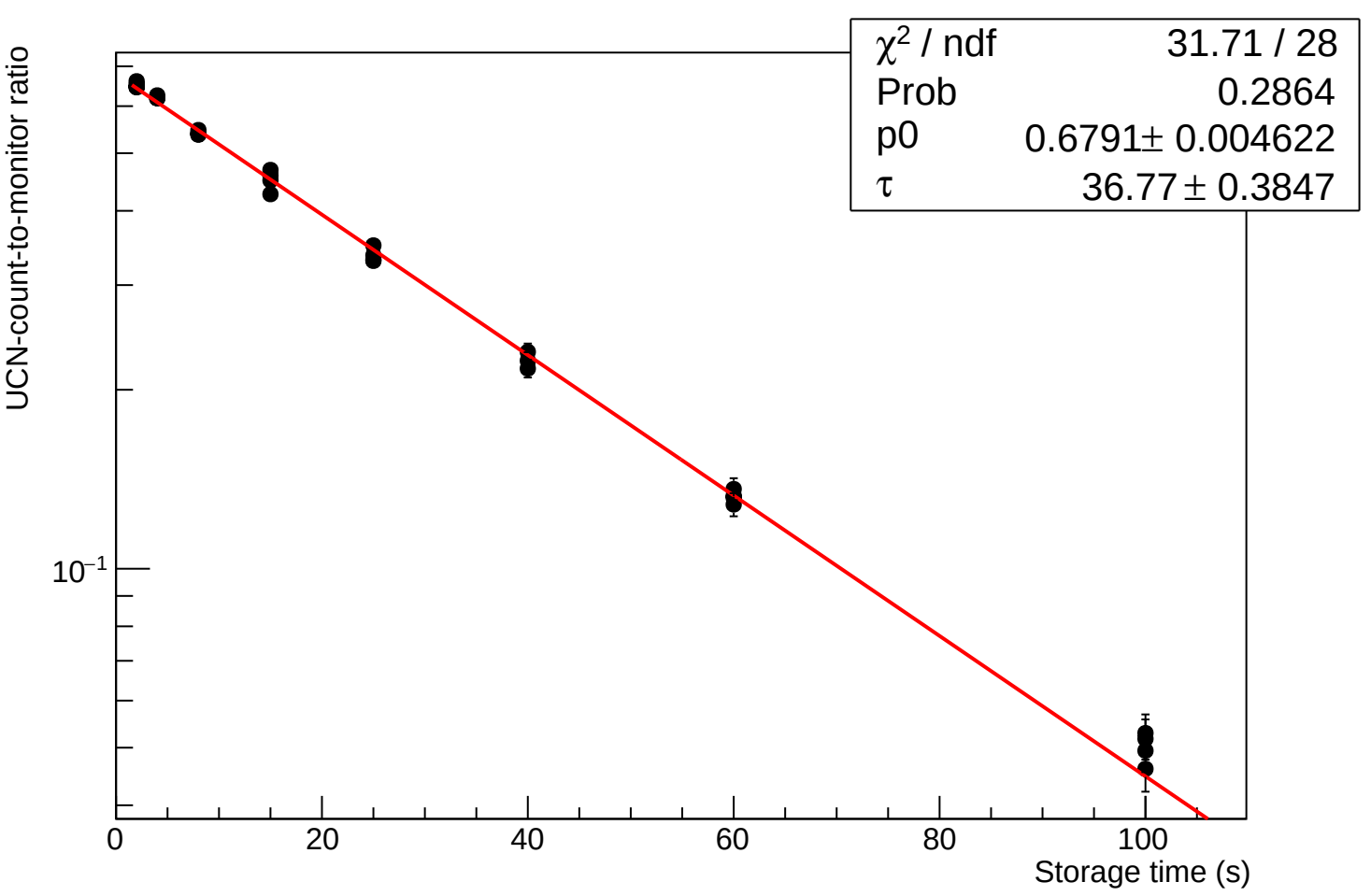
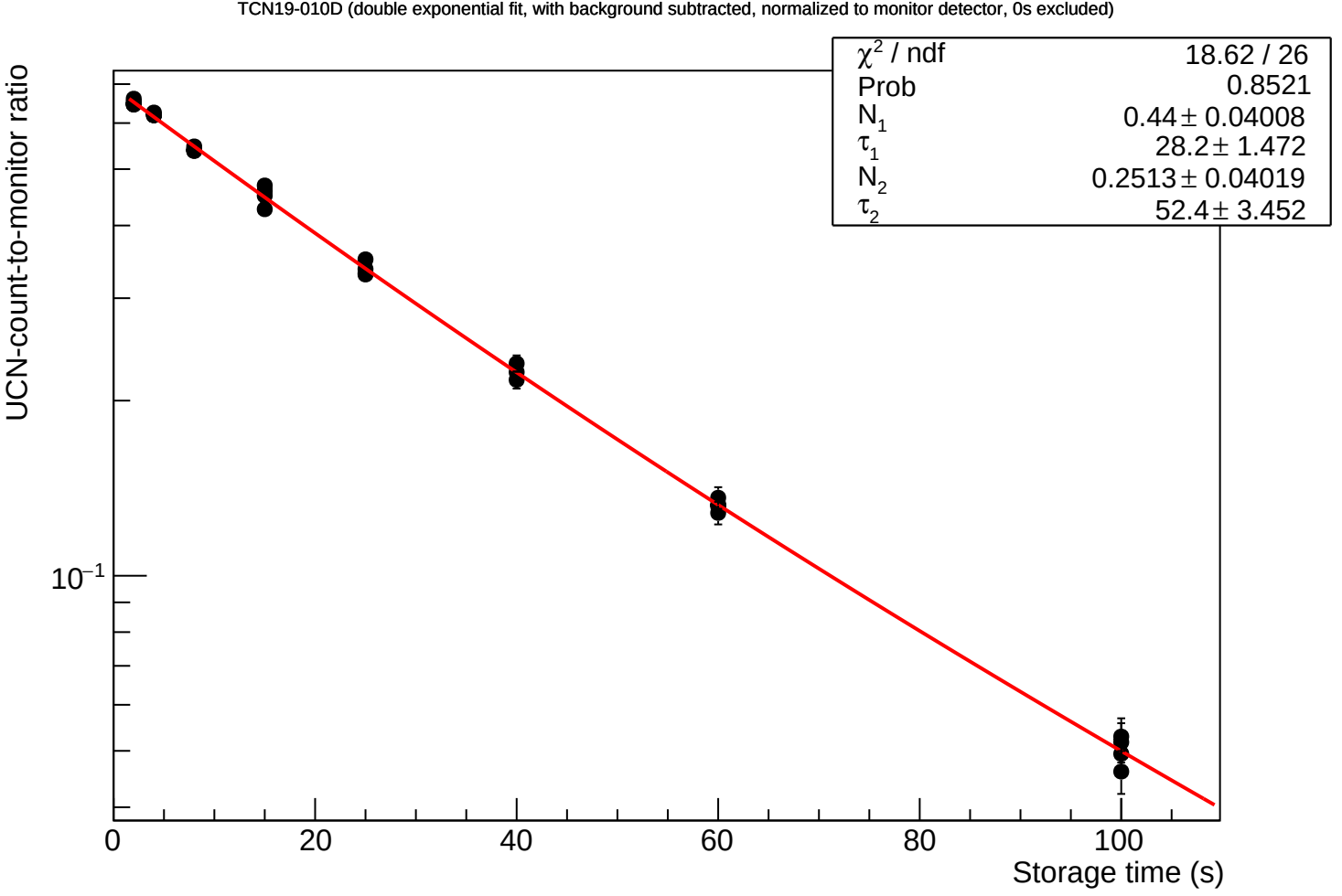
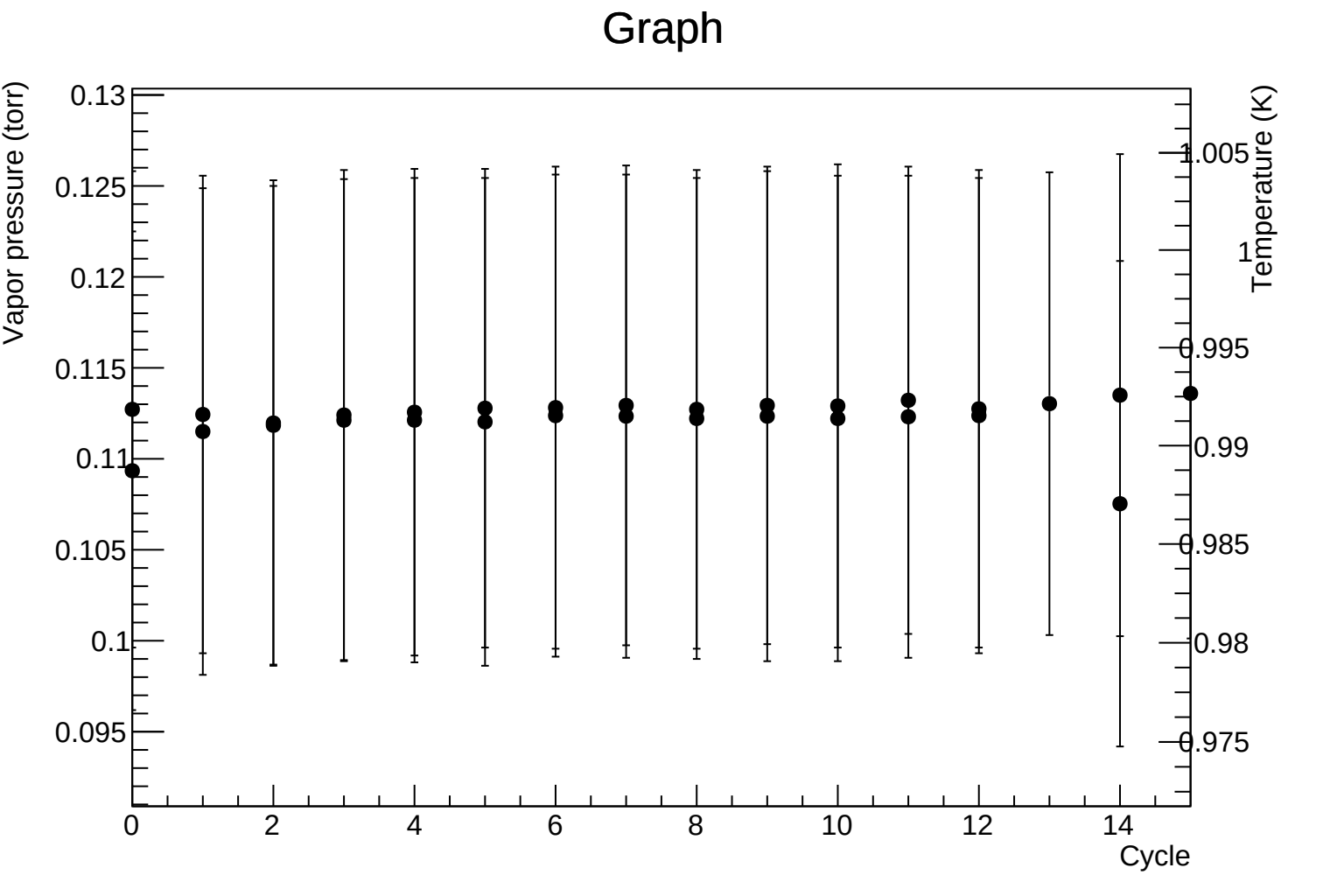
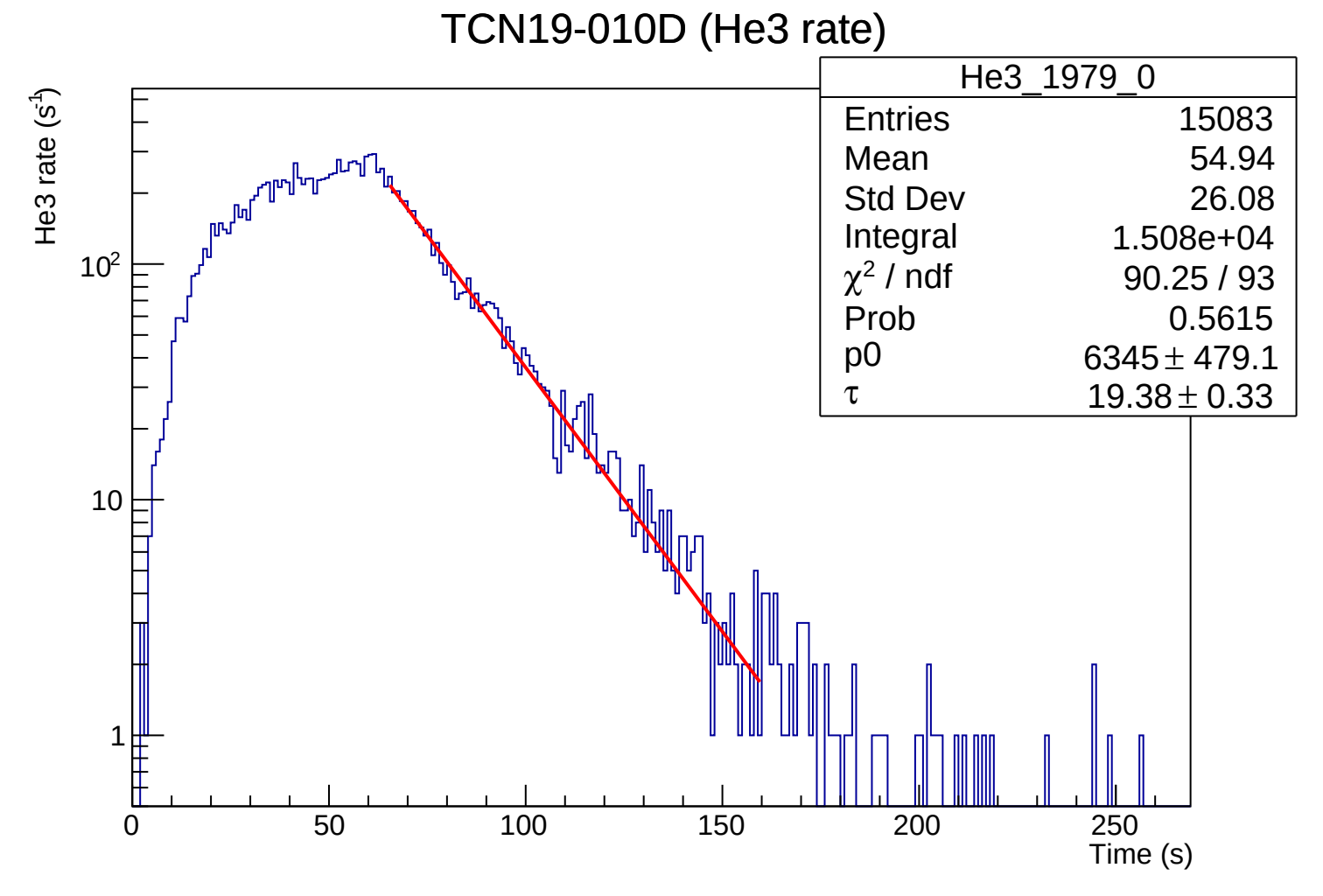

χ^2 / ndf 20.35 / 29
Prob 0.8818
p0 1.616 ± 0.04285
li6 background rate (1/s)
Cycle
0
2
4
6
8
10
12
14
16
1
2
3
4
5
6

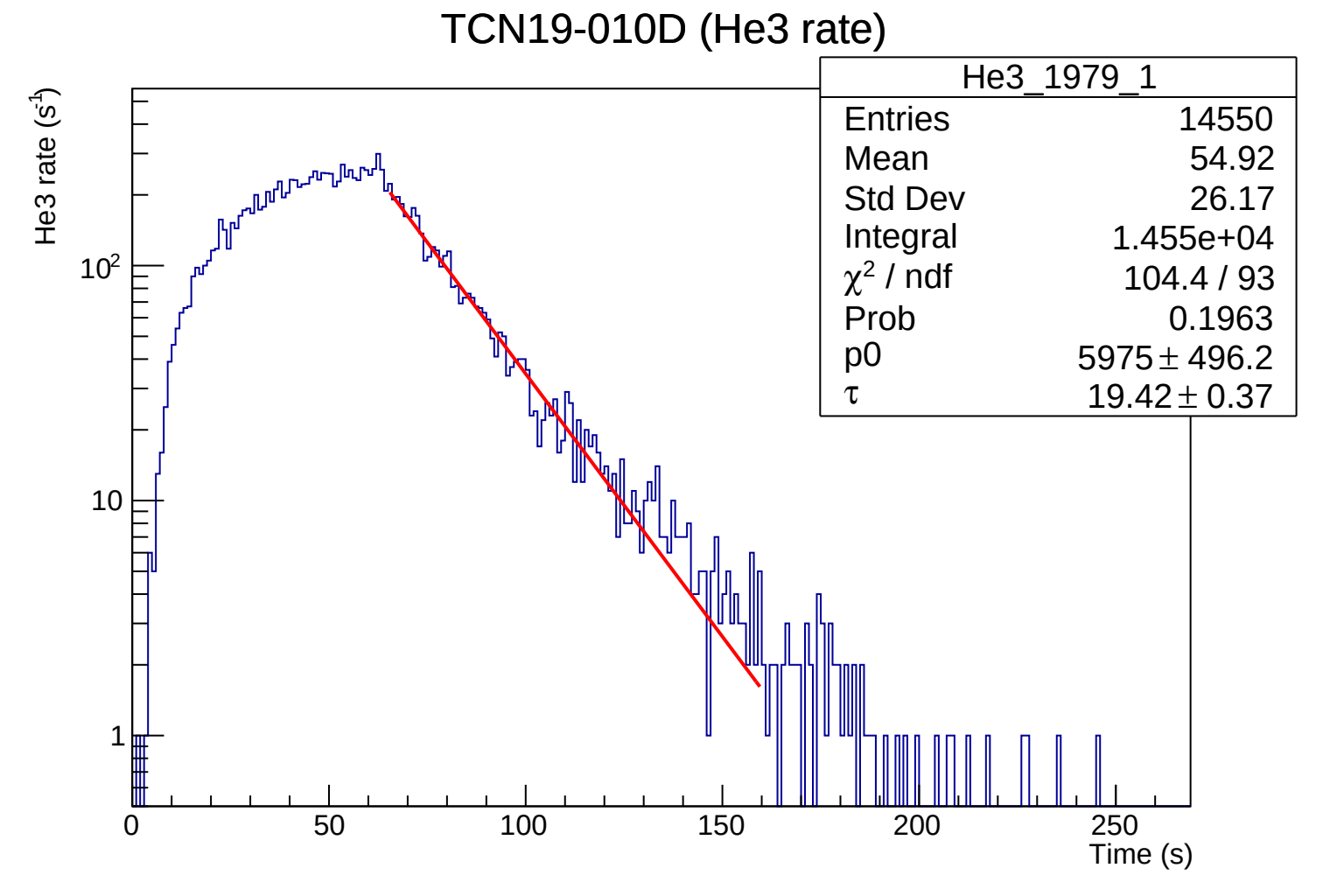

χ² / ndf 28.58 / 29
Prob 0.4873
p0 4.29 ± 0.05705
li6 background rate during irradiation (1/(μA))
Cycle
5.4
5.2
5
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
0
2
4
6
8
10
12
14
16

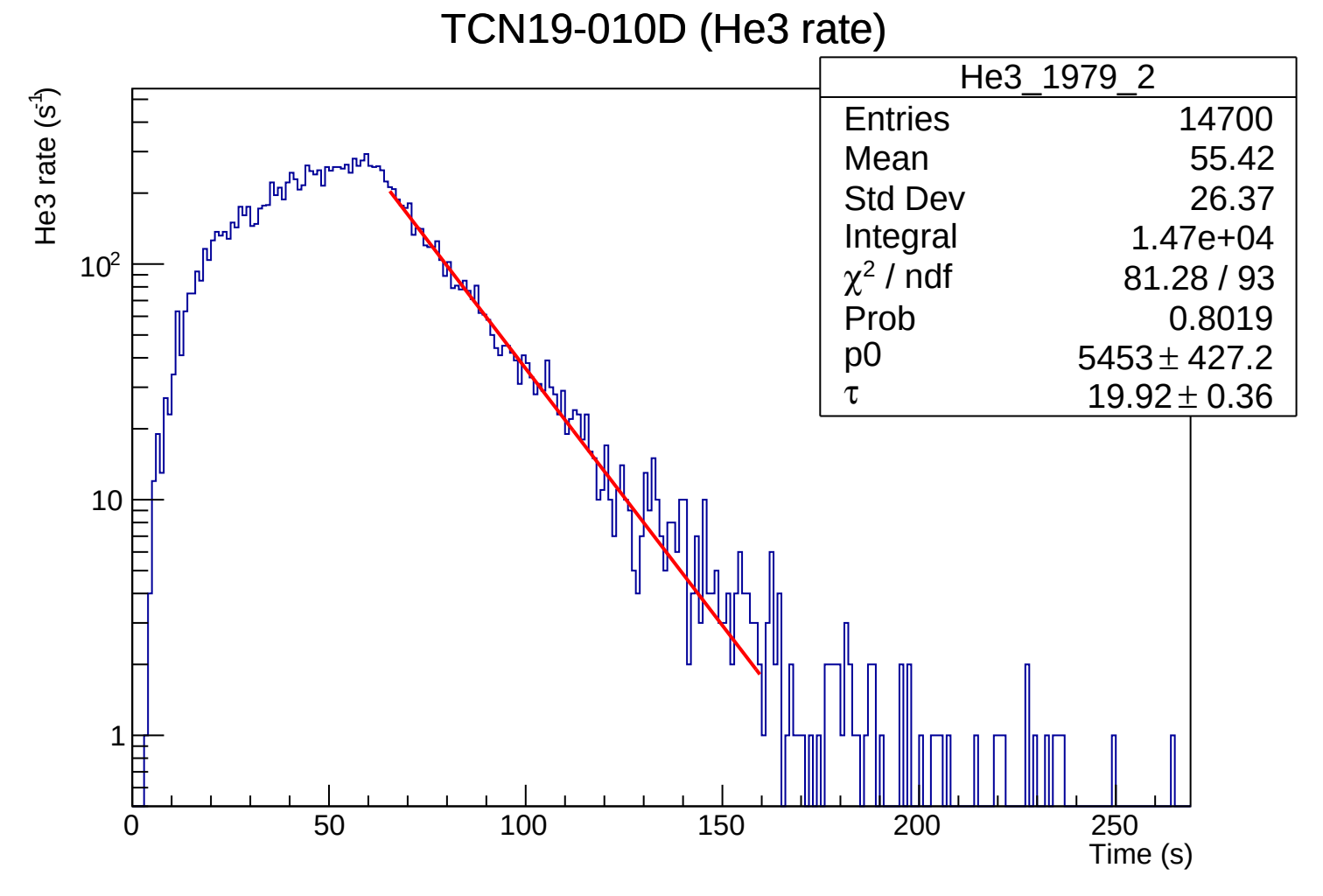

TCN19-010D (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 31.71 / 28
Prob 0.2864
p0 0.6791± 0.004622
τ 36.77 ± 0.3847
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
Storage time (s)

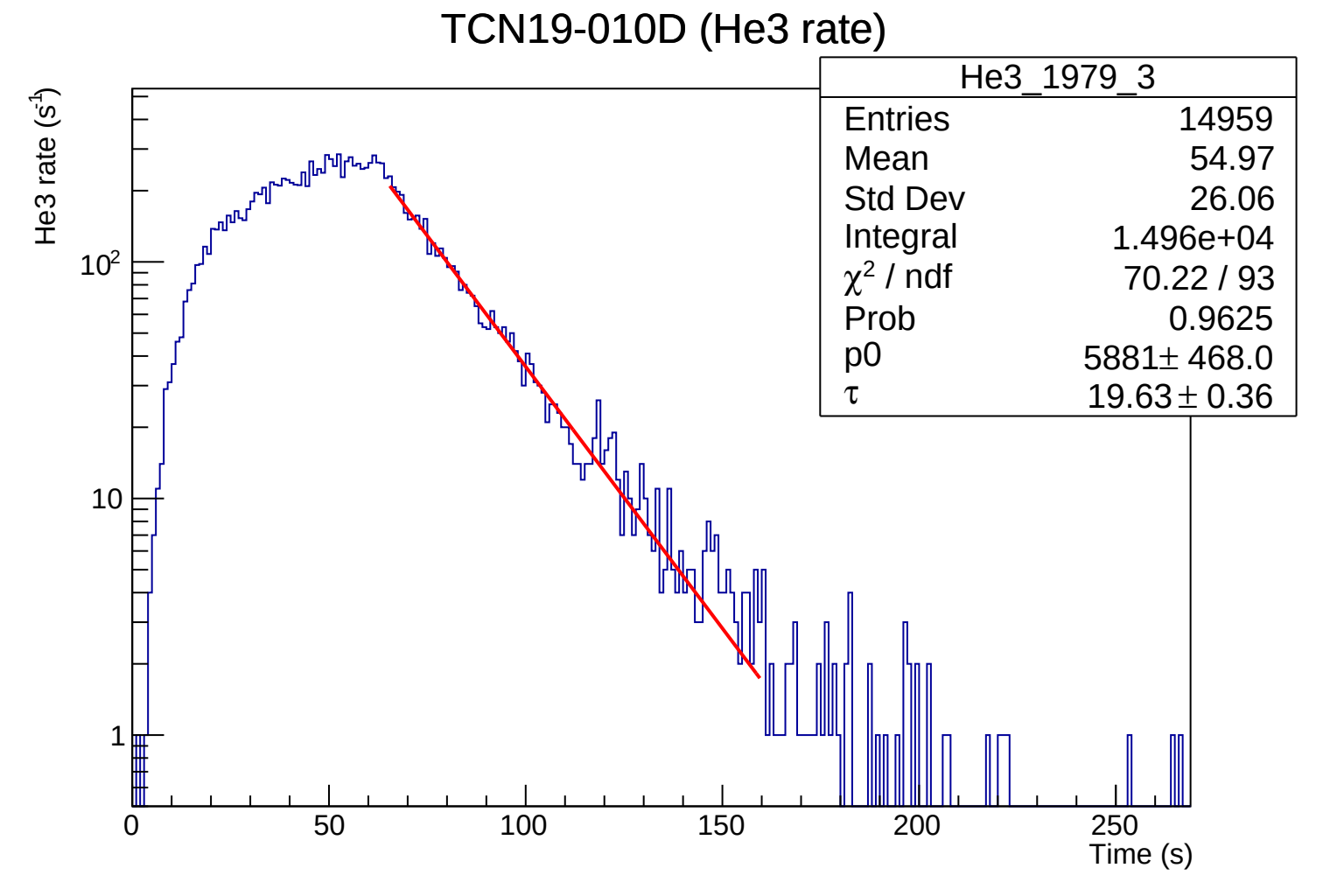

TCN19-010D (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ^2 / ndf 18.62 / 26
Prob 0.8521
N_1 0.44 ± 0.04008
τ_1 28.2 ± 1.472
N_2 0.2513 ± 0.04019
τ_2 52.4 ± 3.452
UCN-count-to-monitor ratio
10^{-1}
0
20
40
60
80
100
Storage time (s)

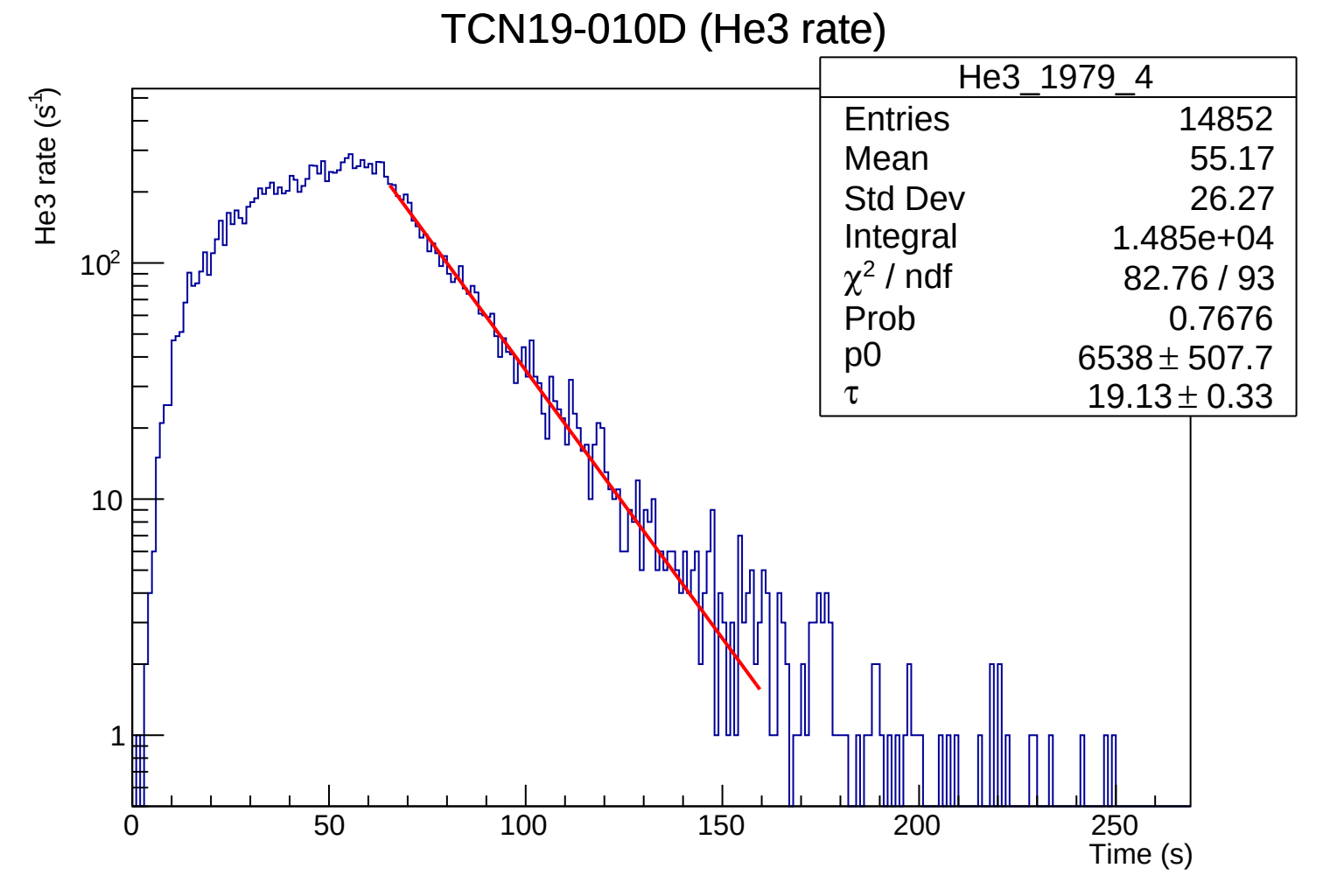

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.13
0.125
0.12
0.115
0.11
0.105
0.1
0.095
1.005
1
0.995
0.99
0.985
0.98
0.975
0
2
4
6
8
10
12
14

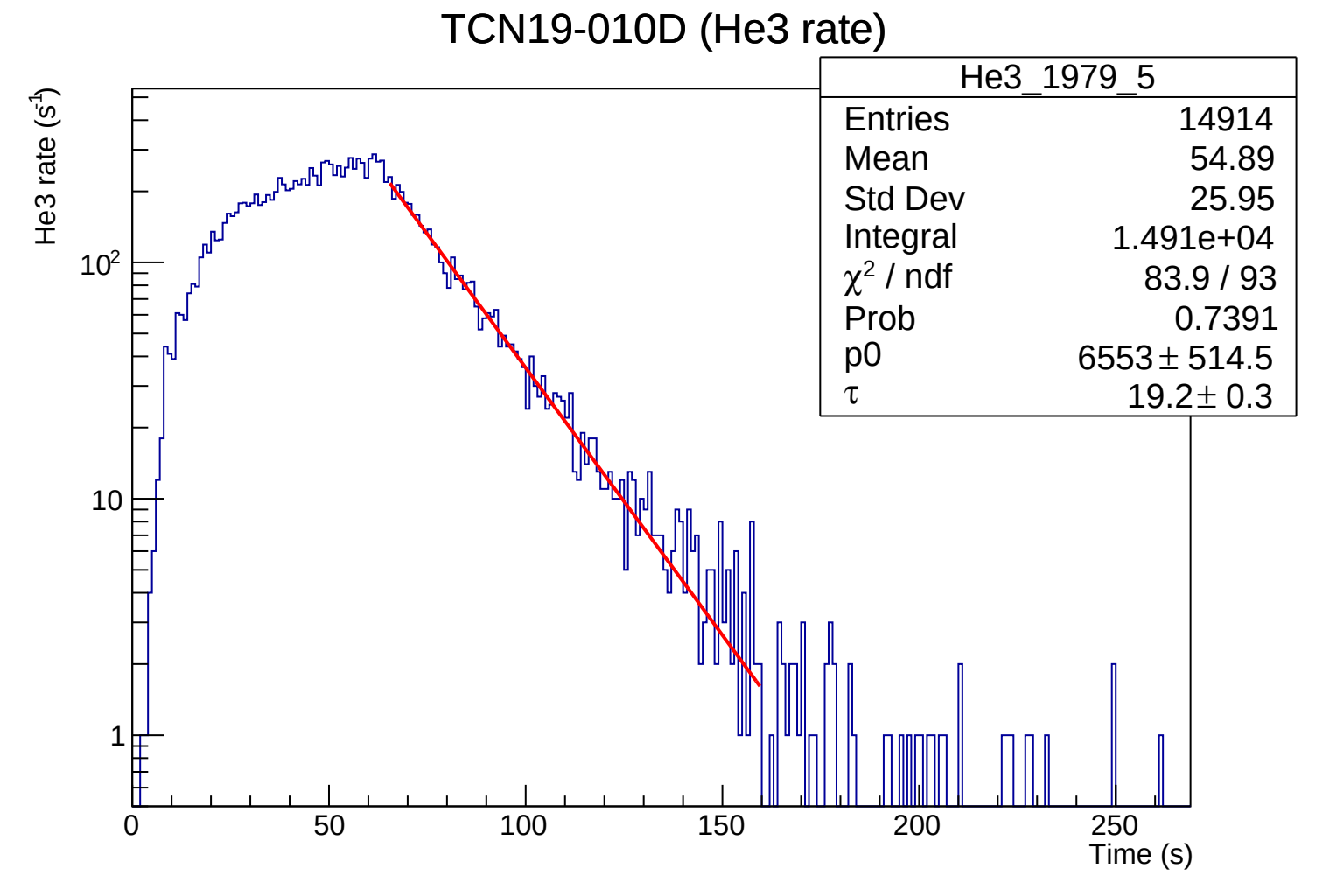

TCN19-010D (He3 rate)
He3_1979_0
Entries 15083
Mean 54.94
Std Dev 26.08
Integral 1.508e+04
χ² / ndf 90.25 / 93
Prob 0.5615
p0 6345 ± 479.1
τ 19.38 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

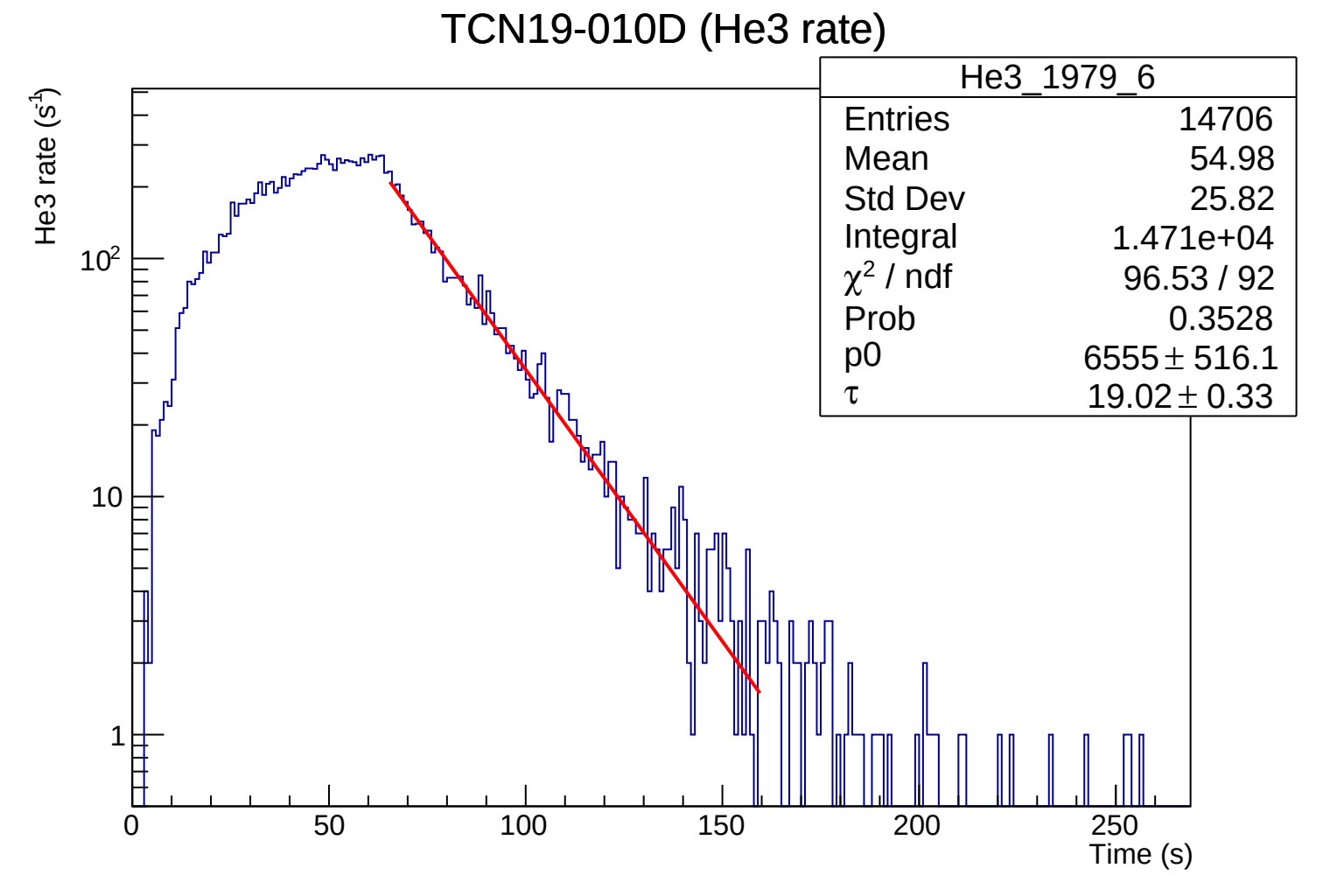

TCN19-010D (He3 rate)
He3_1979_1
Entries 14550
Mean 54.92
Std Dev 26.17
Integral 1.455e+04
χ² / ndf 104.4 / 93
Prob 0.1963
p0 5975 ± 496.2
τ 19.42 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

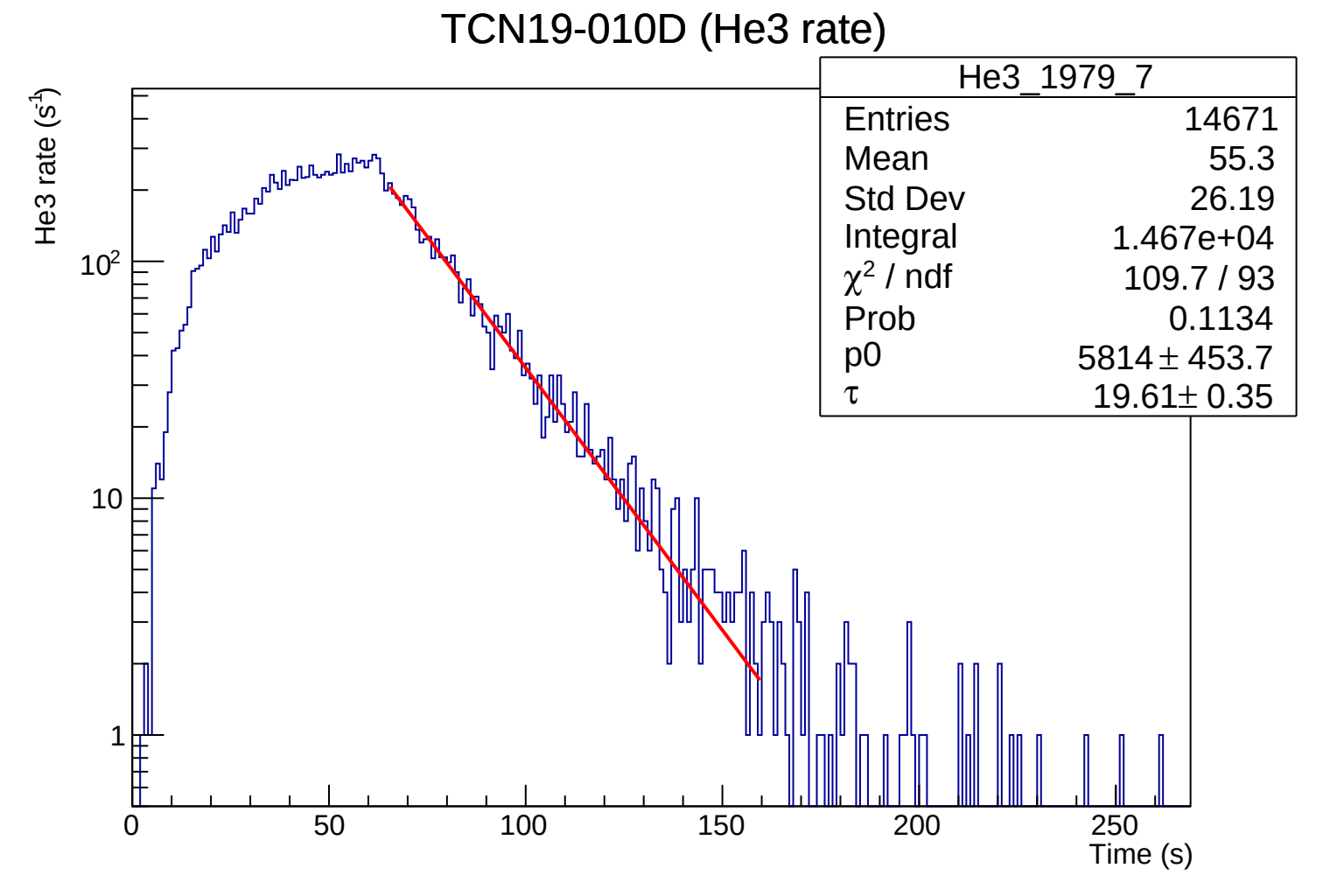

TCN19-010D (He3 rate)
He3_1979_2
Entries 14700
Mean 55.42
Std Dev 26.37
Integral 1.47e+04
χ² / ndf 81.28 / 93
Prob 0.8019
p0 5453 ± 427.2
τ 19.92 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

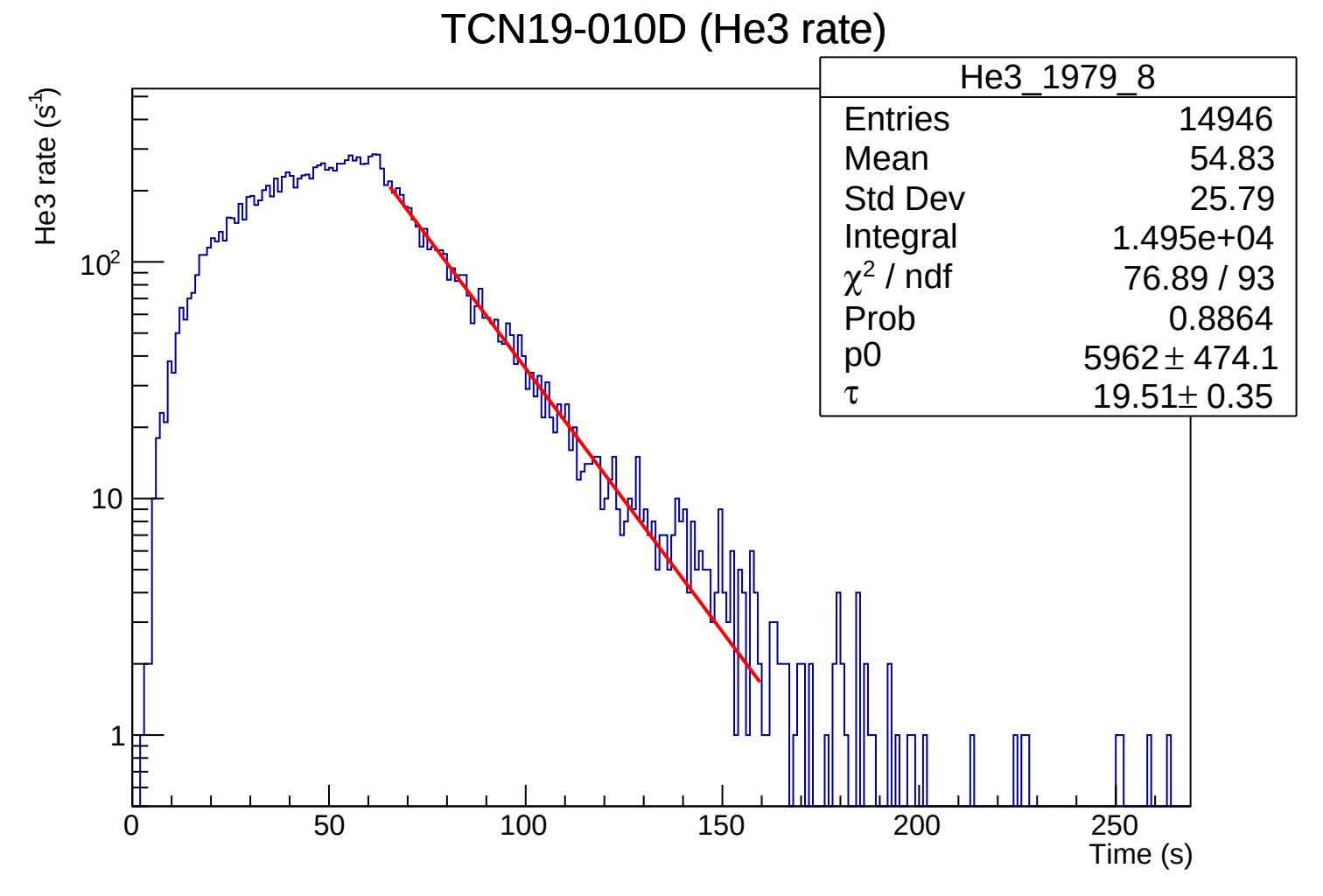

TCN19-010D (He3 rate)
He3_1979_3
Entries 14959
Mean 54.97
Std Dev 26.06
Integral 1.496e+04
χ² / ndf 70.22 / 93
Prob 0.9625
p0 5881 ± 468.0
τ 19.63 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

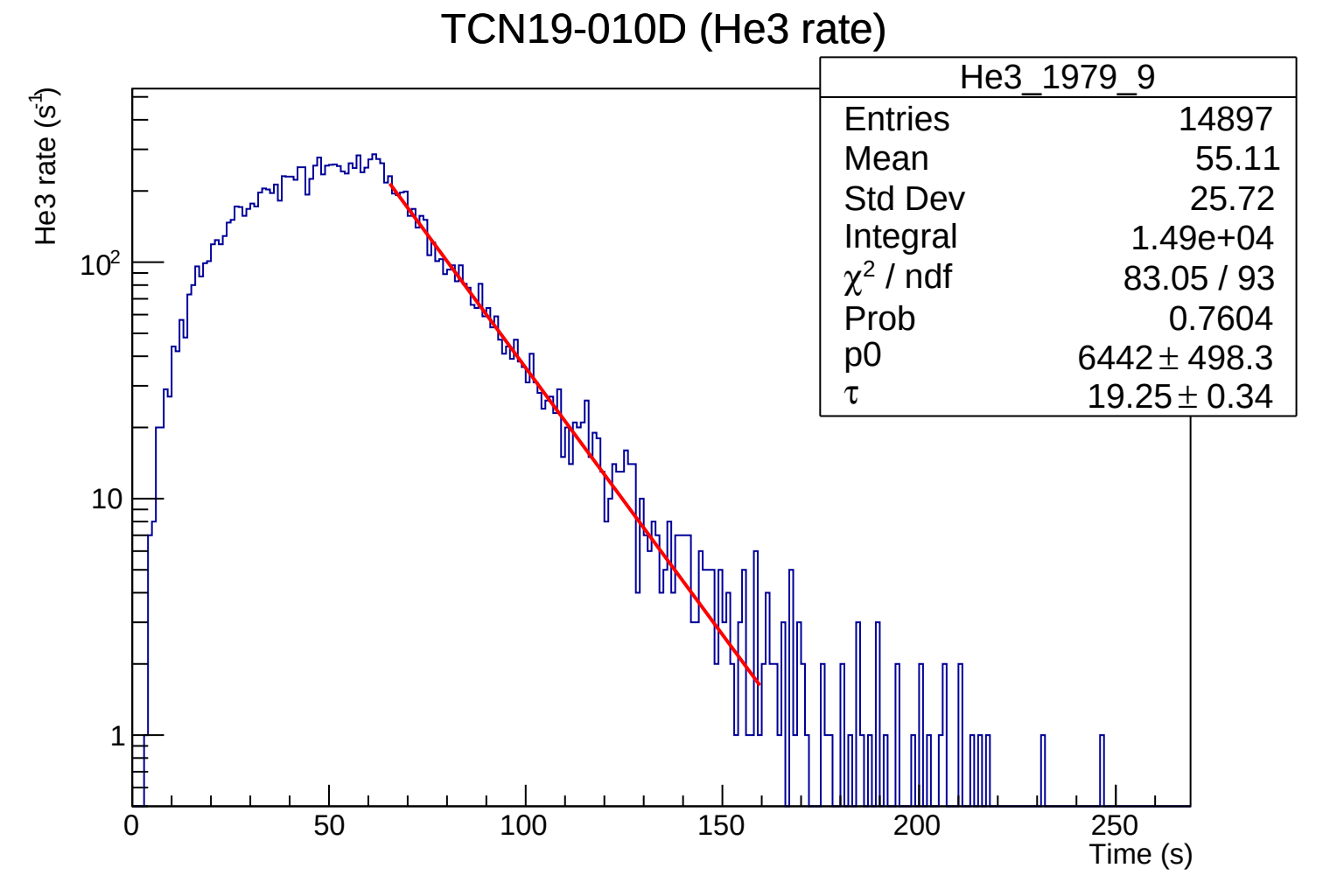

TCN19-010D (He3 rate)
He3_1979_4
Entries 14852
Mean 55.17
Std Dev 26.27
Integral 1.485e+04
χ² / ndf 82.76 / 93
Prob 0.7676
p0 6538 ± 507.7
τ 19.13 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

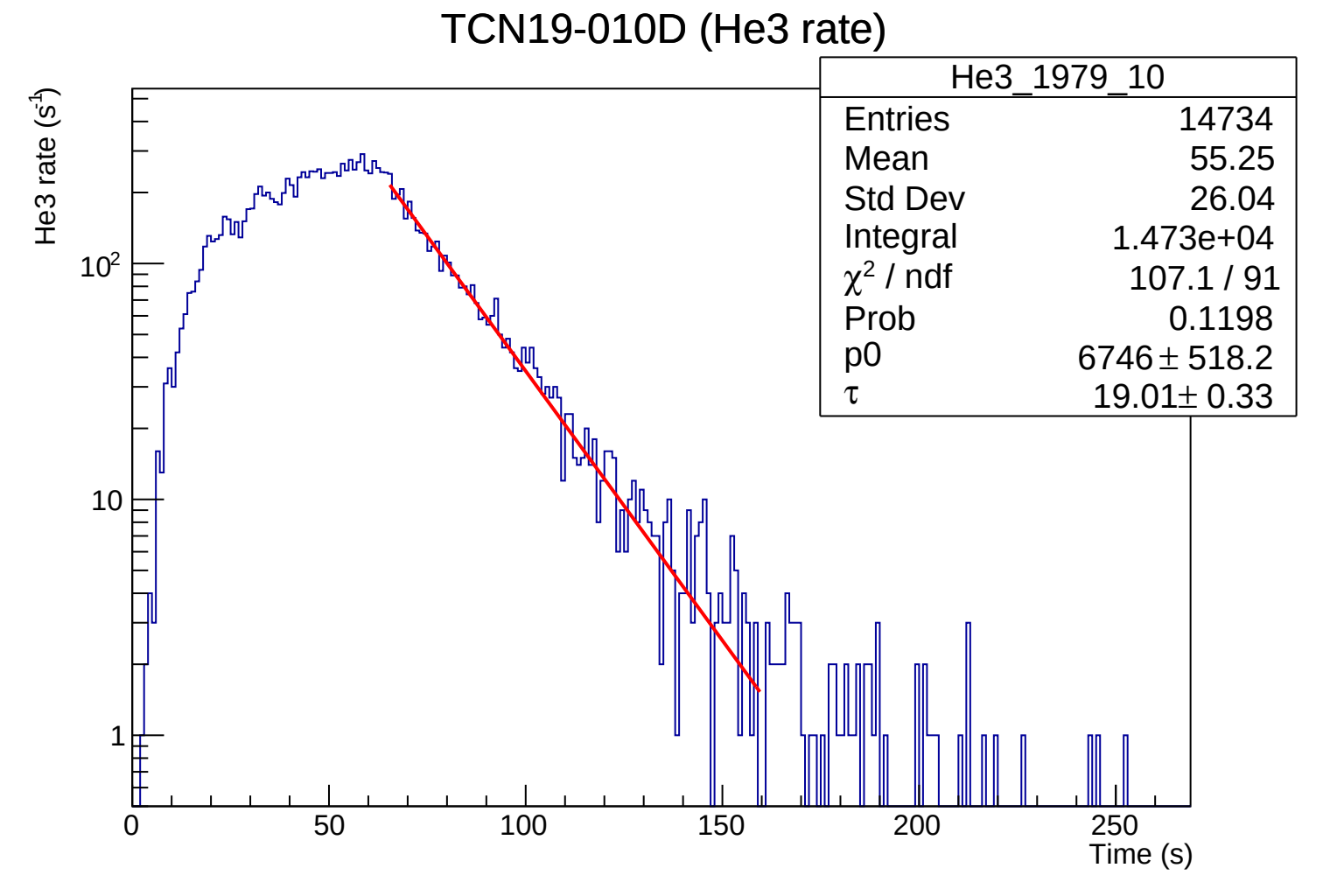

TCN19-010D (He3 rate)
He3_1979_5
Entries 14914
Mean 54.89
Std Dev 25.95
Integral 1.491e+04
χ² / ndf 83.9 / 93
Prob 0.7391
p0 6553 ± 514.5
τ 19.2 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

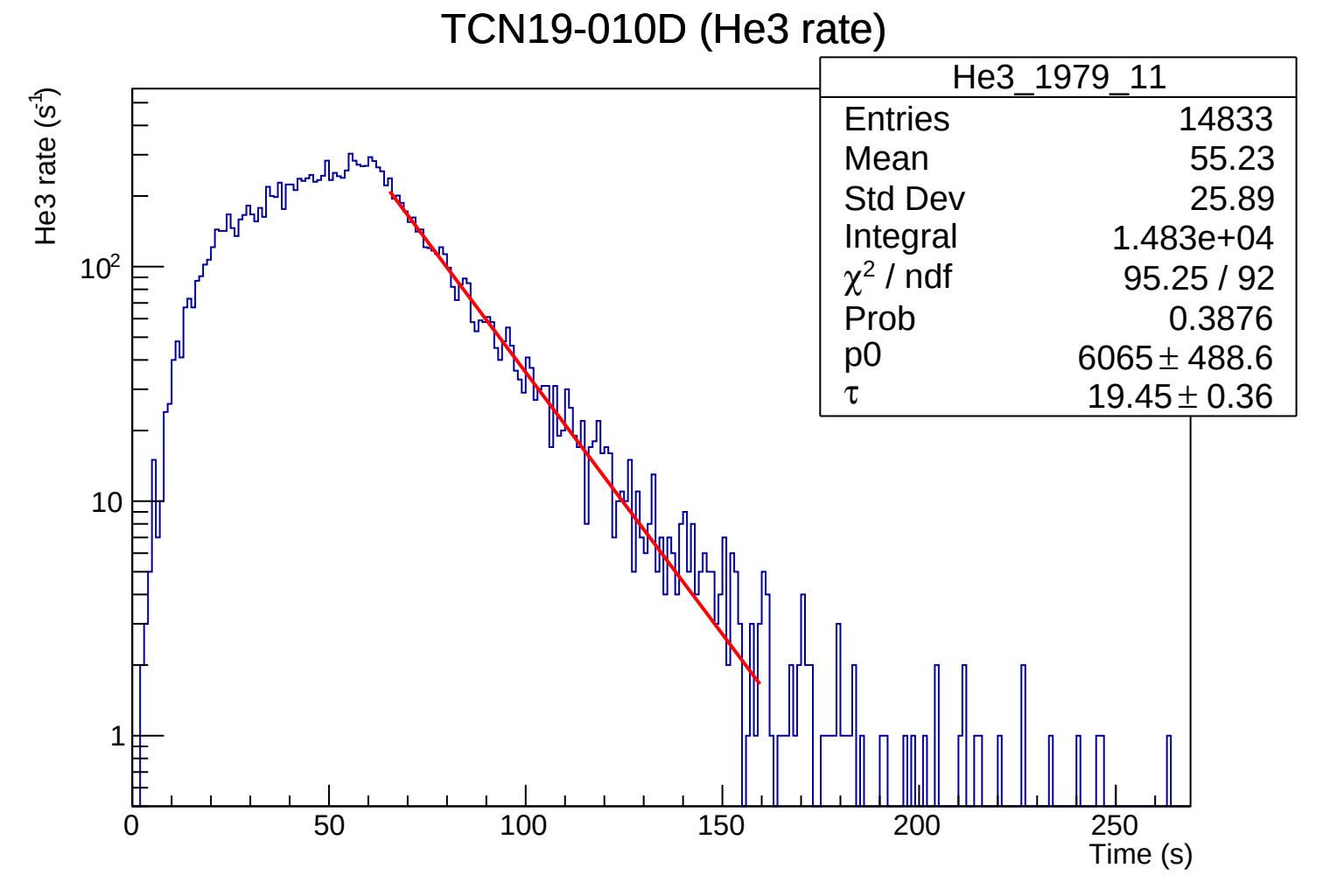

TCN19-010D (He3 rate)
He3_1979_6
Entries 14706
Mean 54.98
Std Dev 25.82
Integral 1.471e+04
χ² / ndf 96.53 / 92
Prob 0.3528
p0 6555 ± 516.1
τ 19.02 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

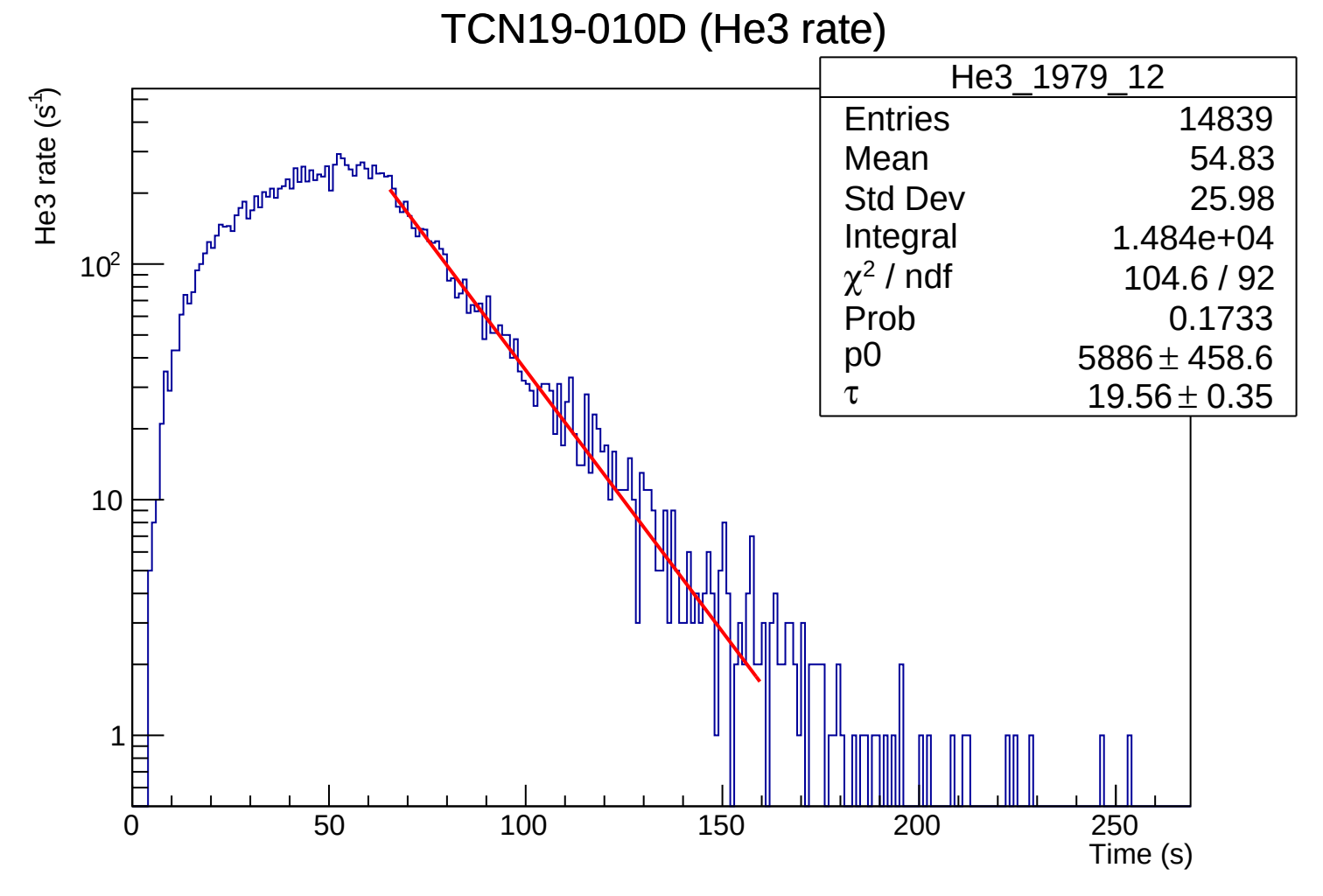

TCN19-010D (He3 rate)
He3_1979_7
Entries 14671
Mean 55.3
Std Dev 26.19
Integral 1.467e+04
χ² / ndf 109.7 / 93
Prob 0.1134
p0 5814 ± 453.7
τ 19.61 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

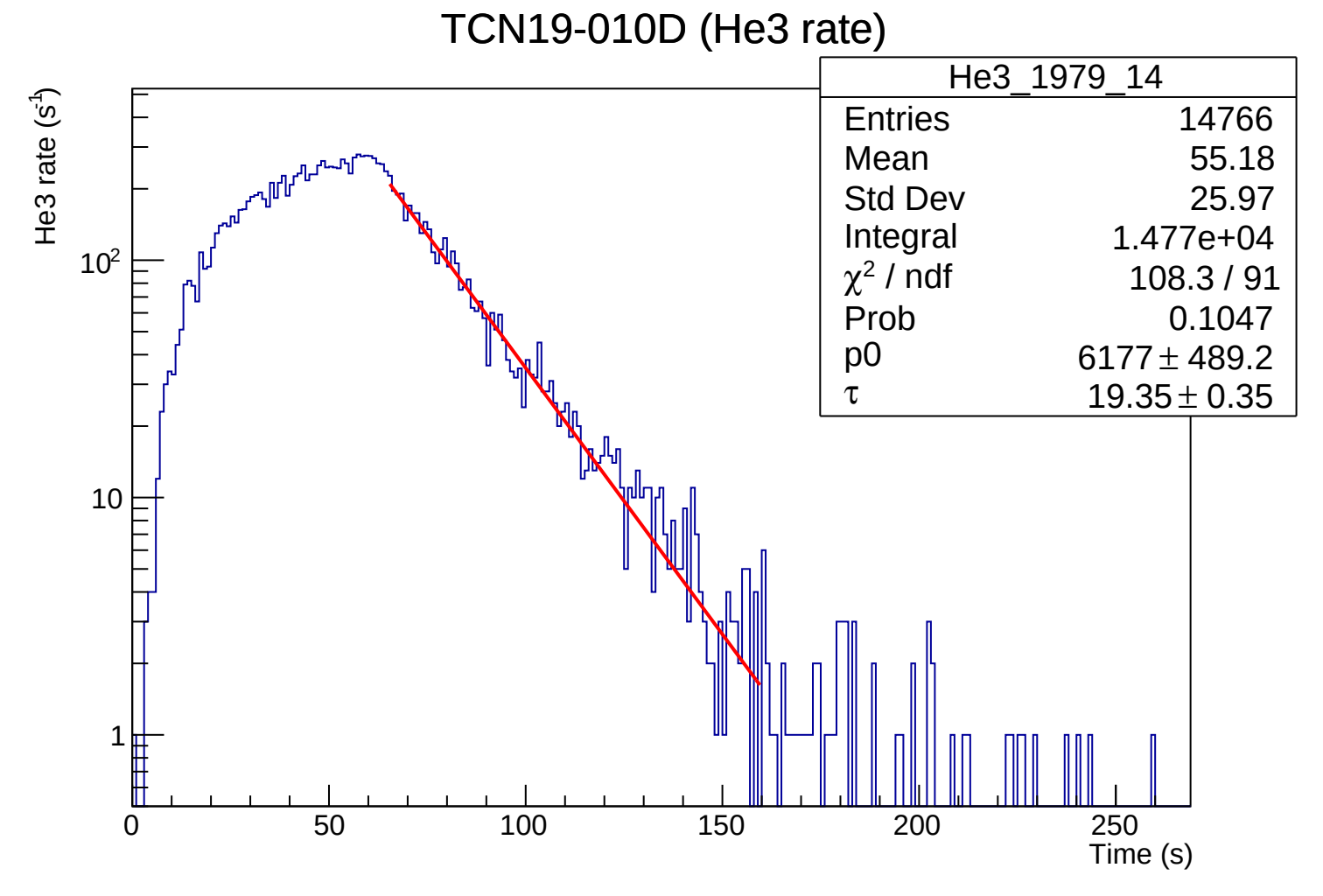

TCN19-010D (He3 rate)
He3_1979_8
Entries 14946
Mean 54.83
Std Dev 25.79
Integral 1.495e+04
χ² / ndf 76.89 / 93
Prob 0.8864
p0 5962 ± 474.1
τ 19.51 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

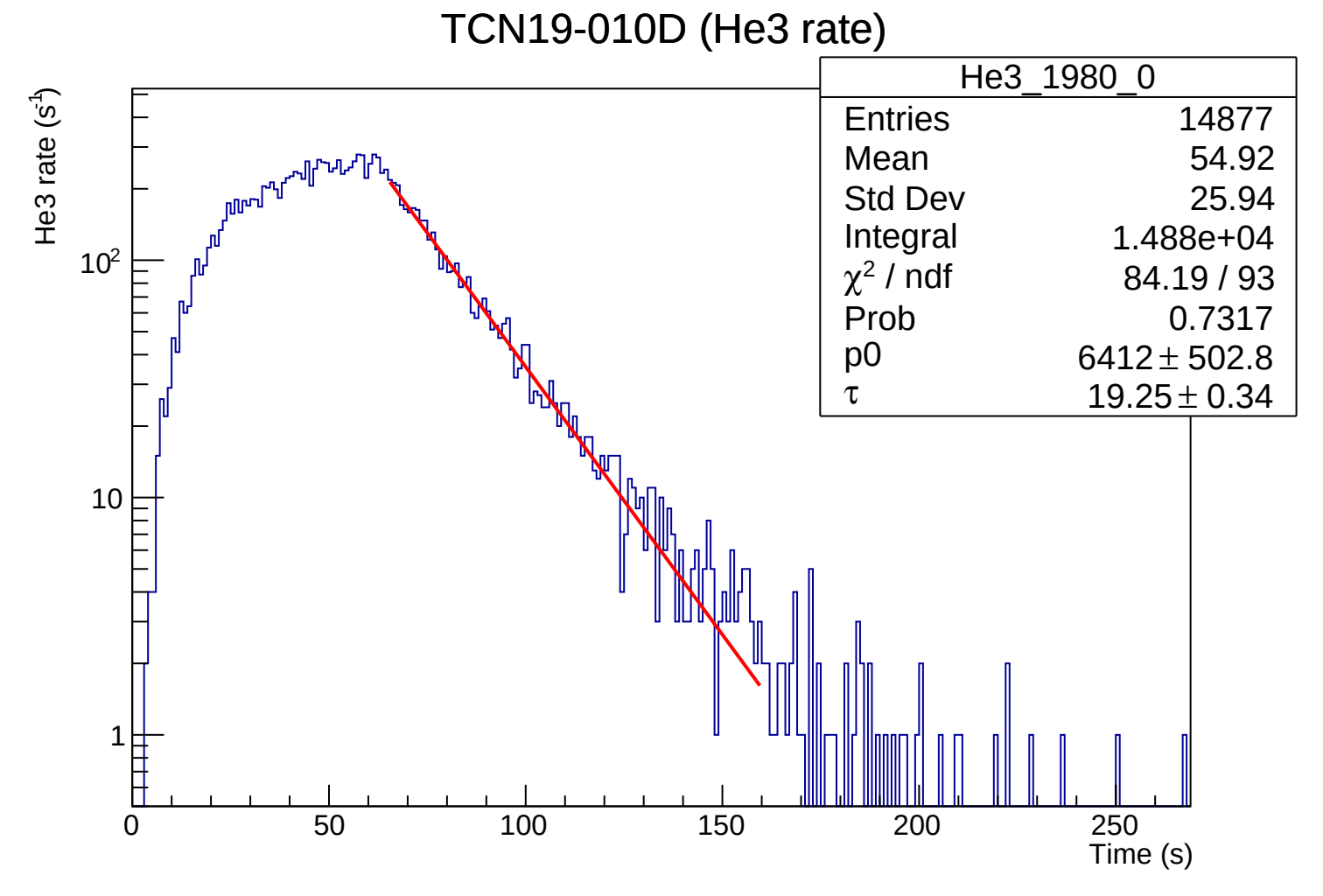

TCN19-010D (He3 rate)
He3_1979_9
Entries 14897
Mean 55.11
Std Dev 25.72
Integral 1.49e+04
χ² / ndf 83.05 / 93
Prob 0.7604
p0 6442 ± 498.3
τ 19.25 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

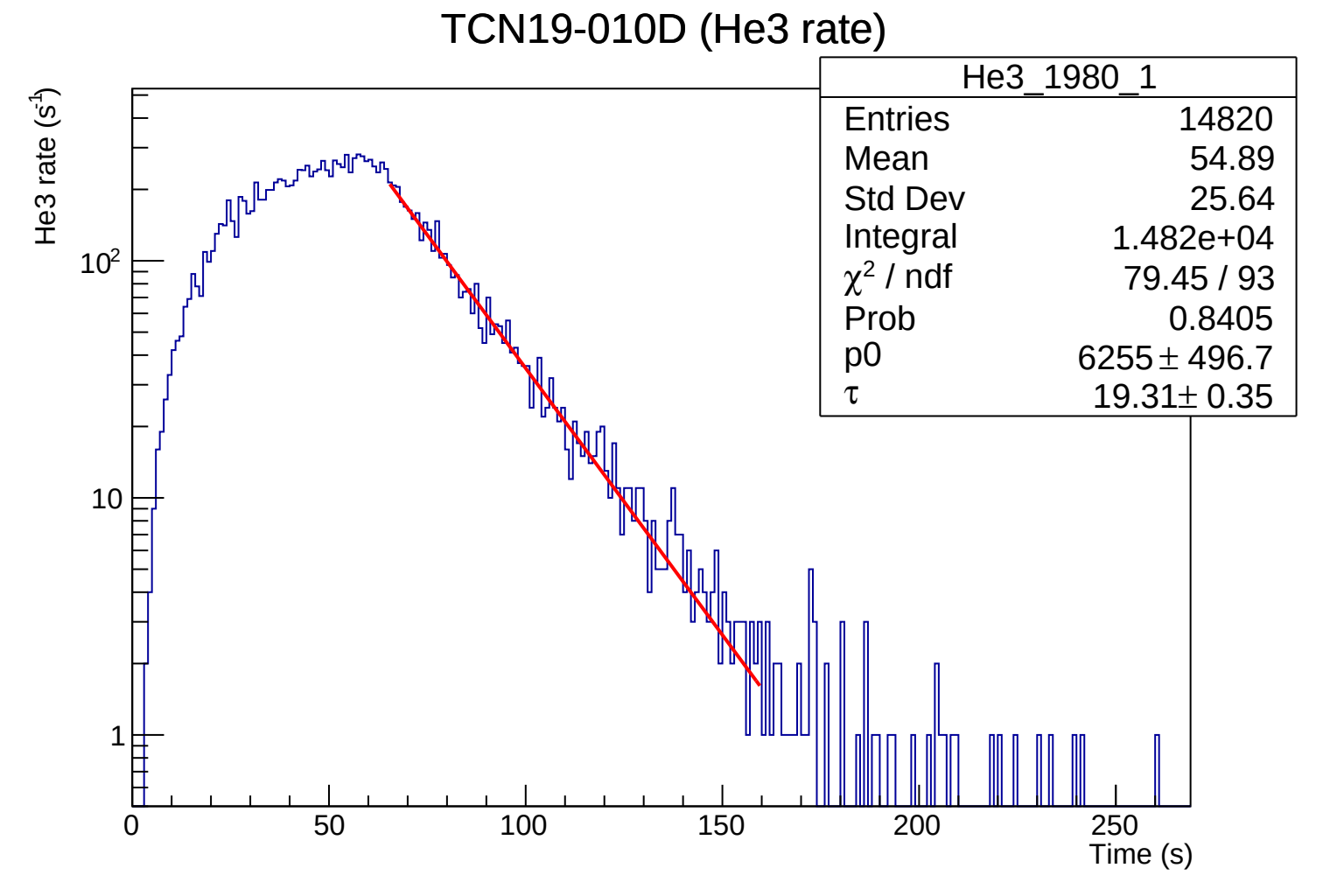

TCN19-010D (He3 rate)
He3_1979_10
Entries 14734
Mean 55.25
Std Dev 26.04
Integral 1.473e+04
χ² / ndf 107.1 / 91
Prob 0.1198
p0 6746 ± 518.2
τ 19.01 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

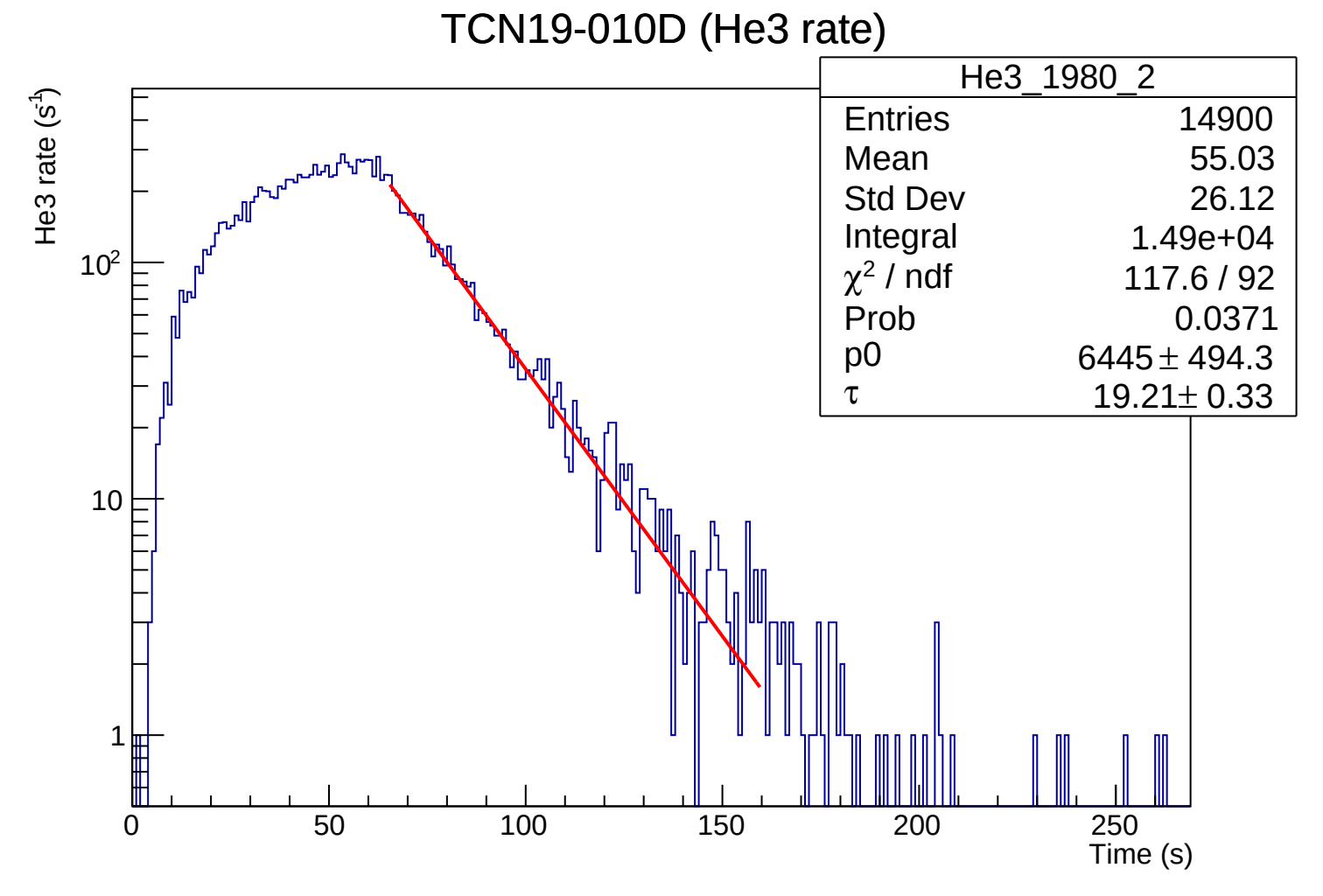

TCN19-010D (He3 rate)
He3_1979_11
Entries 14833
Mean 55.23
Std Dev 25.89
Integral 1.483e+04
χ² / ndf 95.25 / 92
Prob 0.3876
p0 6065 ± 488.6
τ 19.45 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

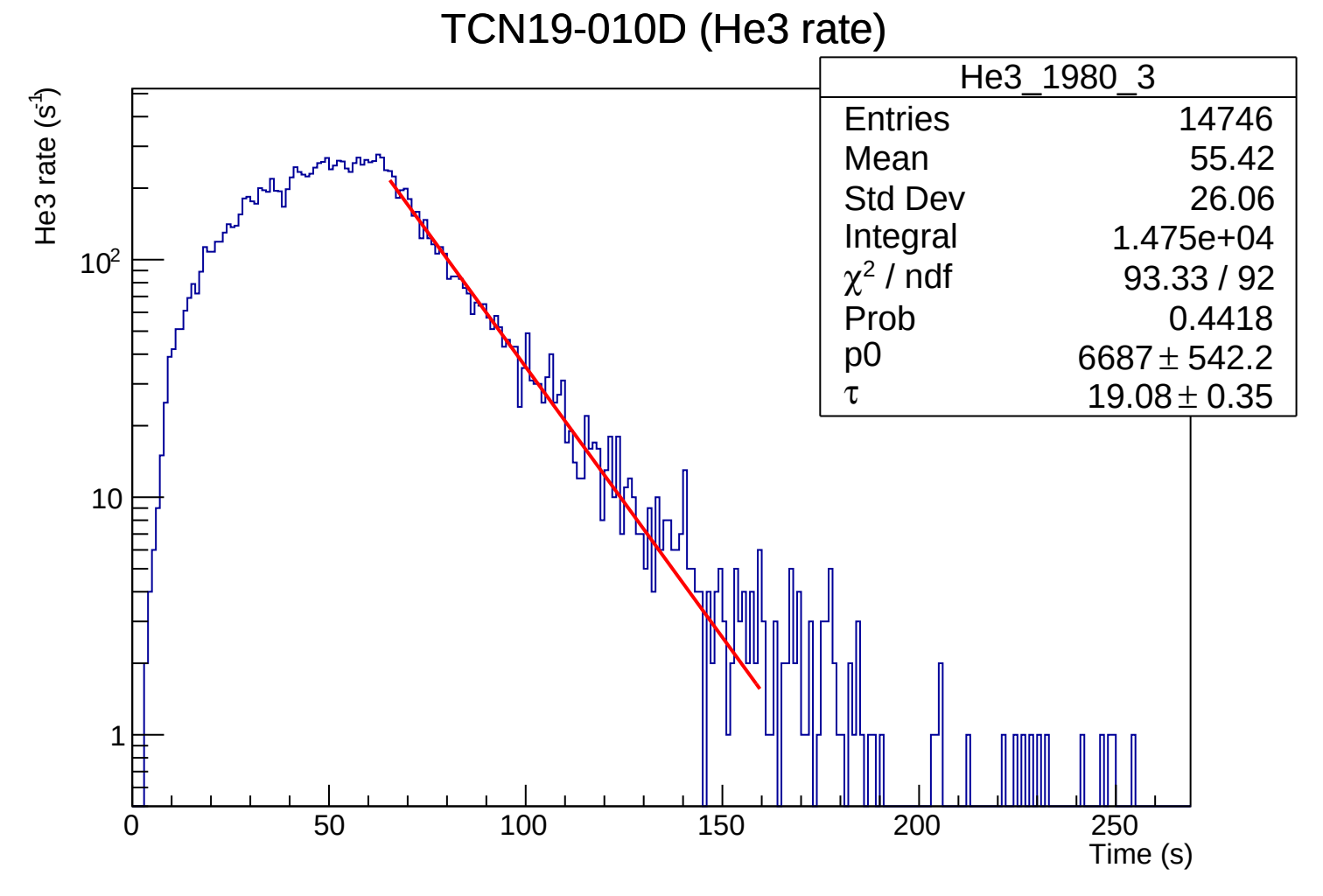

TCN19-010D (He3 rate)
He3_1979_12
Entries 14839
Mean 54.83
Std Dev 25.98
Integral 1.484e+04
χ² / ndf 104.6 / 92
Prob 0.1733
p0 5886 ± 458.6
τ 19.56 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

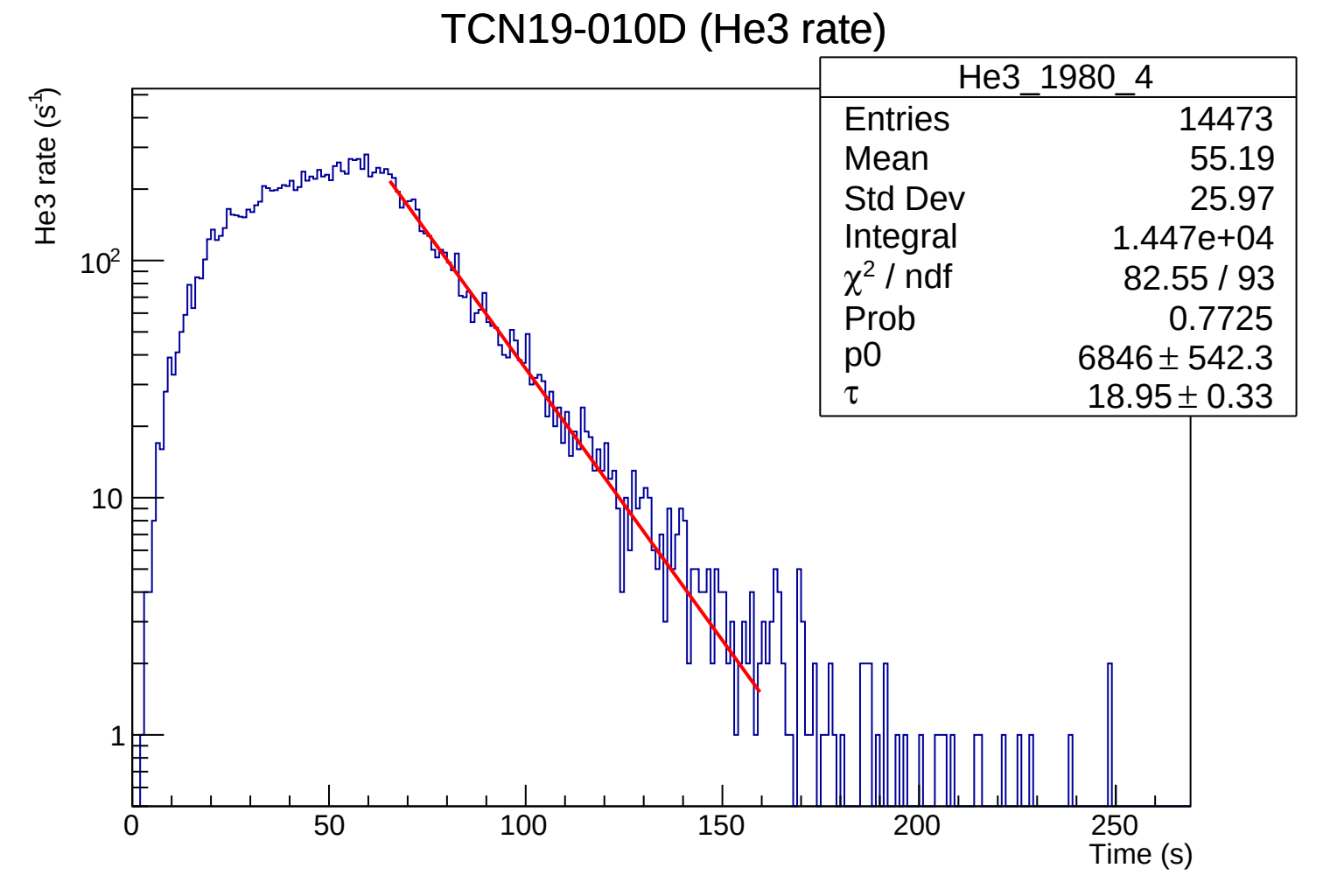

TCN19-010D (He3 rate)
He3_1979_14
Entries 14766
Mean 55.18
Std Dev 25.97
Integral 1.477e+04
χ² / ndf 108.3 / 91
Prob 0.1047
p0 6177 ± 489.2
τ 19.35 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

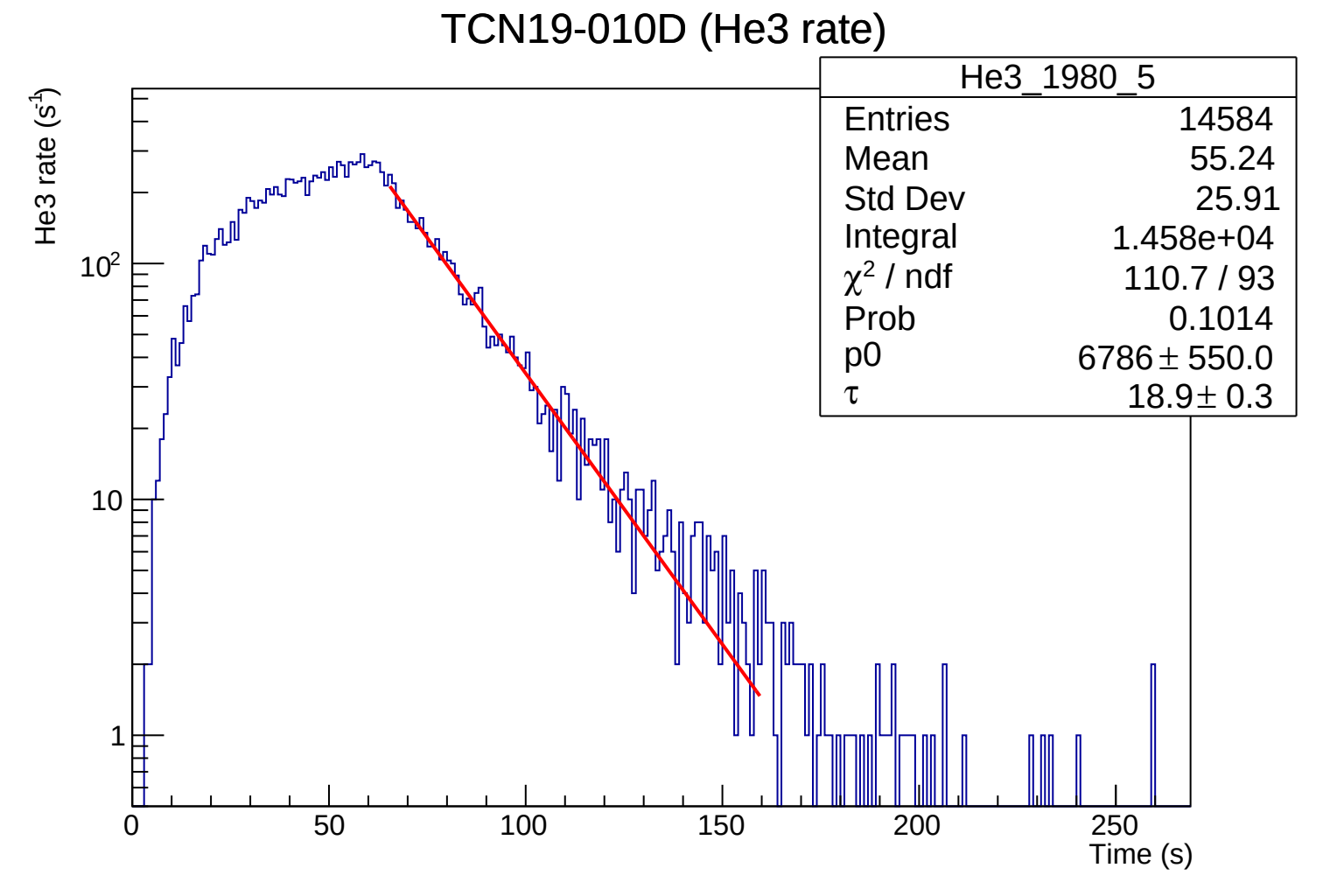

TCN19-010D (He3 rate)
He3_1980_0
Entries 14877
Mean 54.92
Std Dev 25.94
Integral 1.488e+04
χ² / ndf 84.19 / 93
Prob 0.7317
p0 6412 ± 502.8
τ 19.25 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

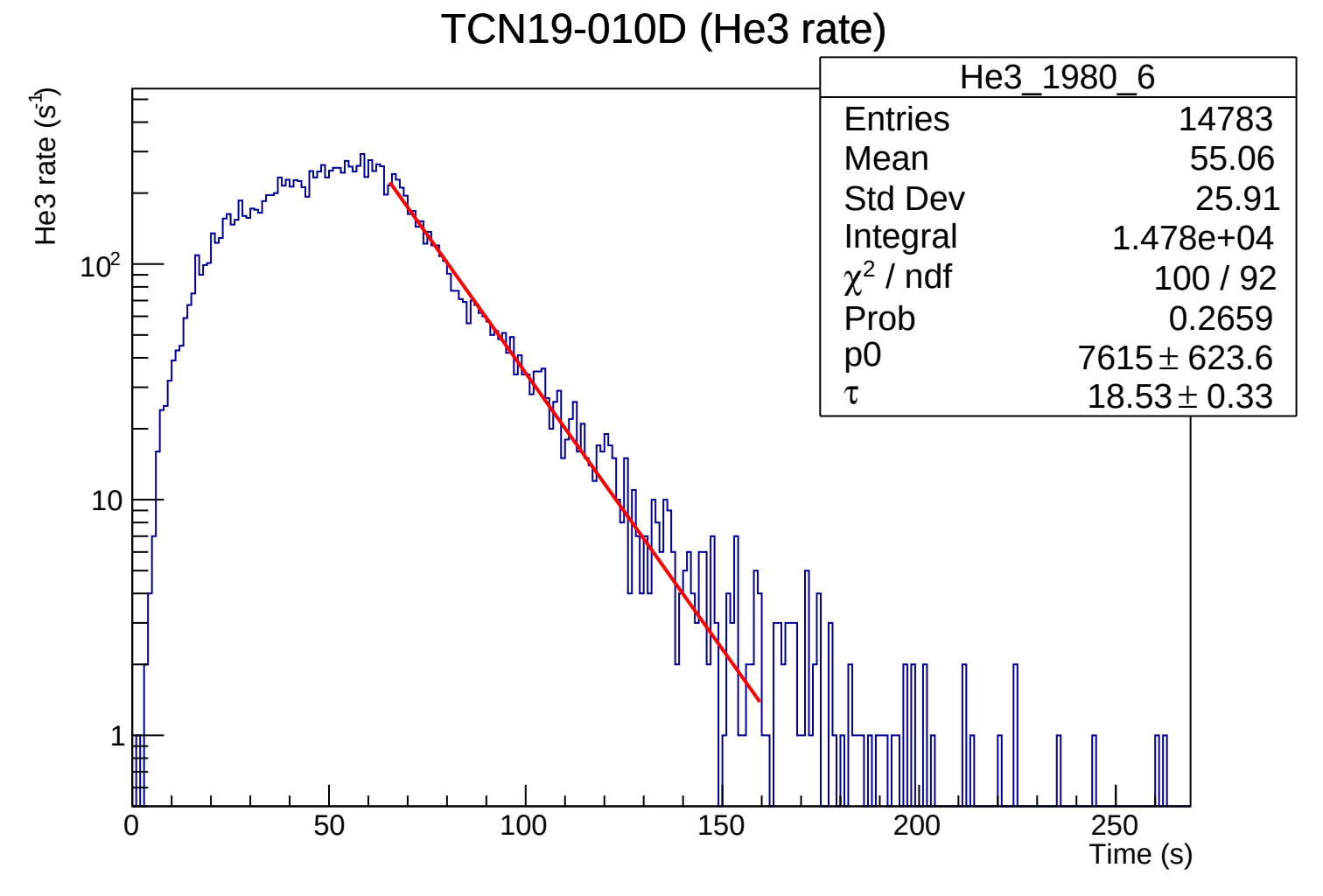

TCN19-010D (He3 rate)
He3_1980_1
Entries 14820
Mean 54.89
Std Dev 25.64
Integral 1.482e+04
χ² / ndf 79.45 / 93
Prob 0.8405
p0 6255 ± 496.7
τ 19.31 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

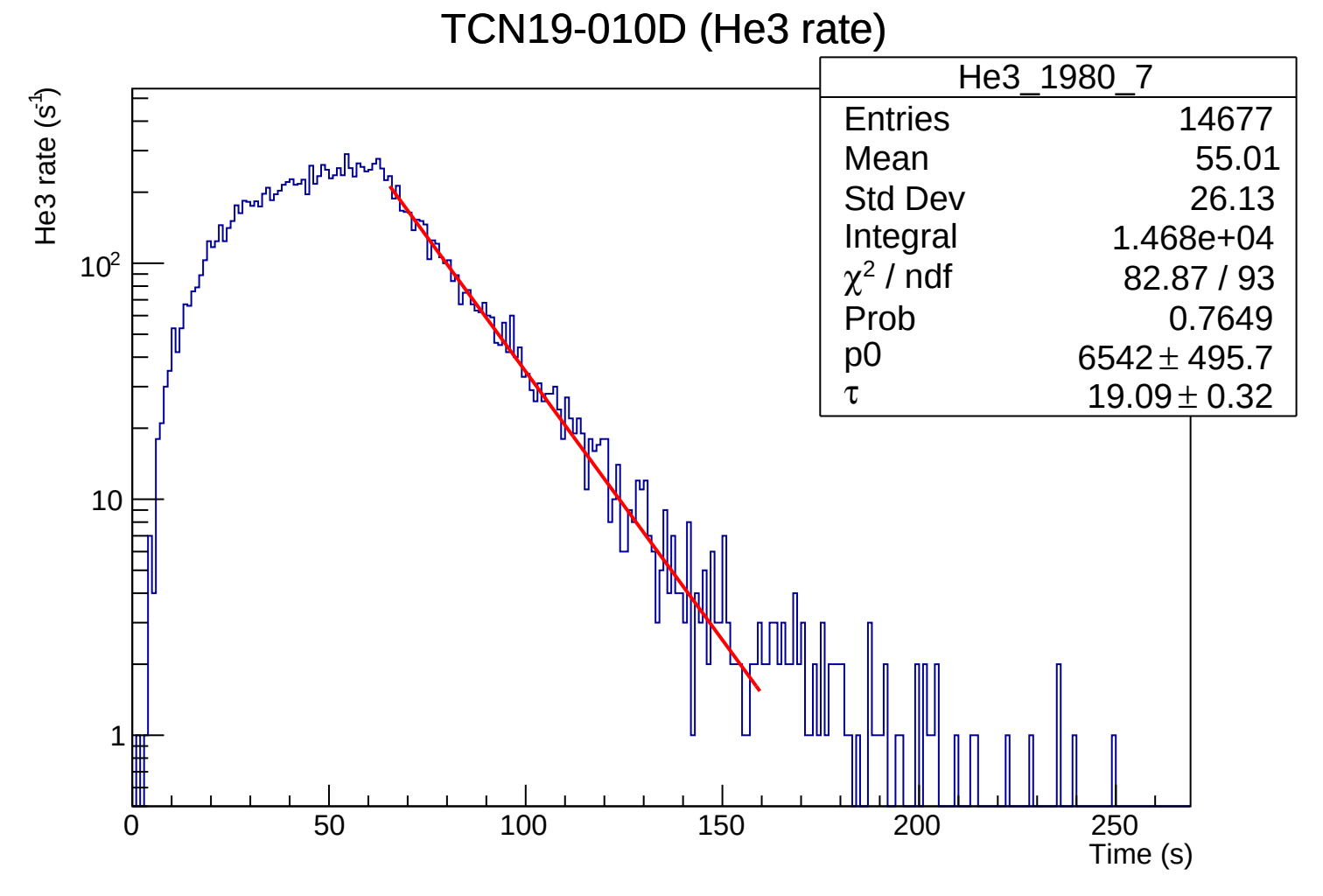

TCN19-010D (He3 rate)
He3_1980_2
Entries 14900
Mean 55.03
Std Dev 26.12
Integral 1.49e+04
χ² / ndf 117.6 / 92
Prob 0.0371
p0 6445 ± 494.3
τ 19.21 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

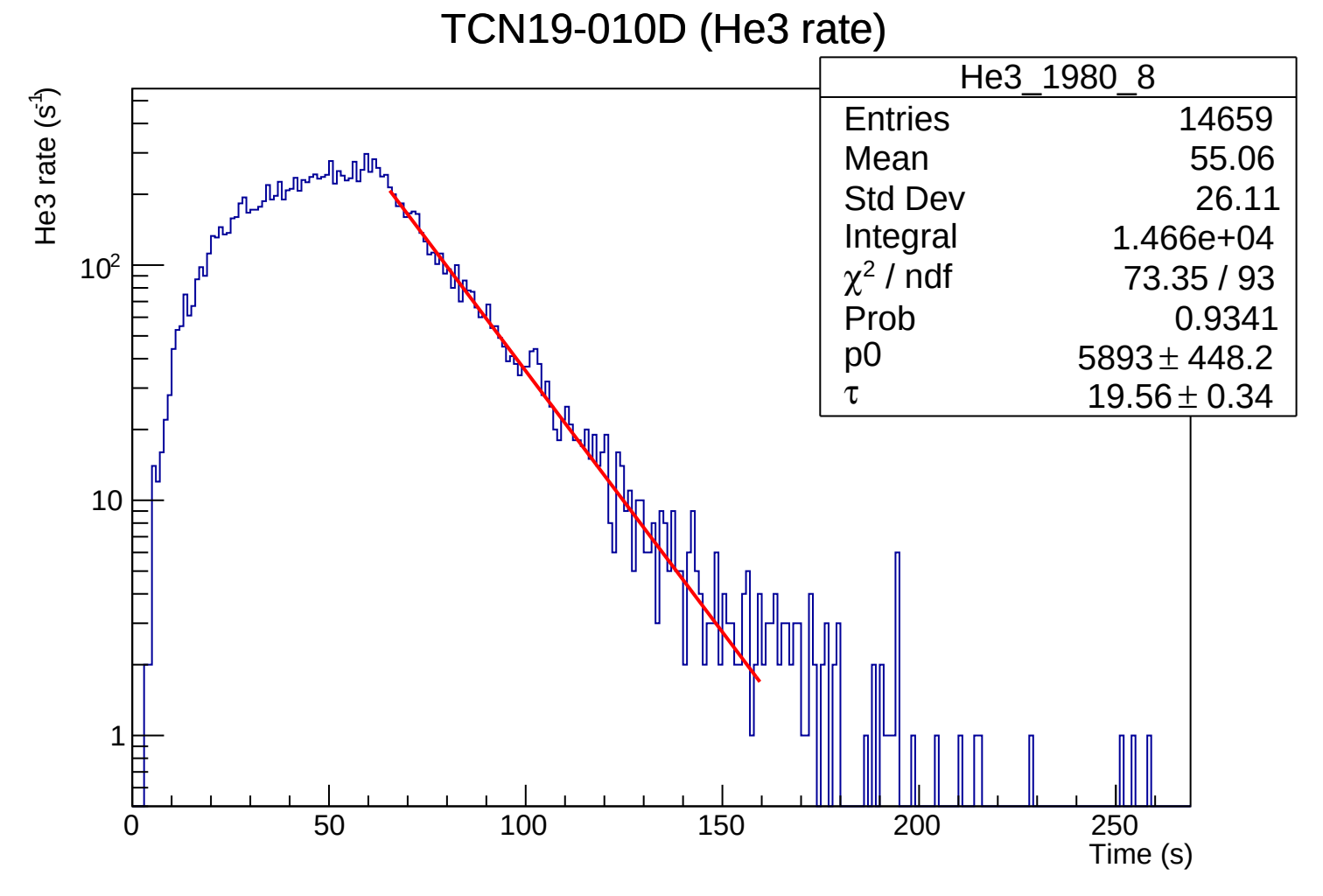

TCN19-010D (He3 rate)
He3_1980_3
Entries 14746
Mean 55.42
Std Dev 26.06
Integral 1.475e+04
χ² / ndf 93.33 / 92
Prob 0.4418
p0 6687 ± 542.2
τ 19.08 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

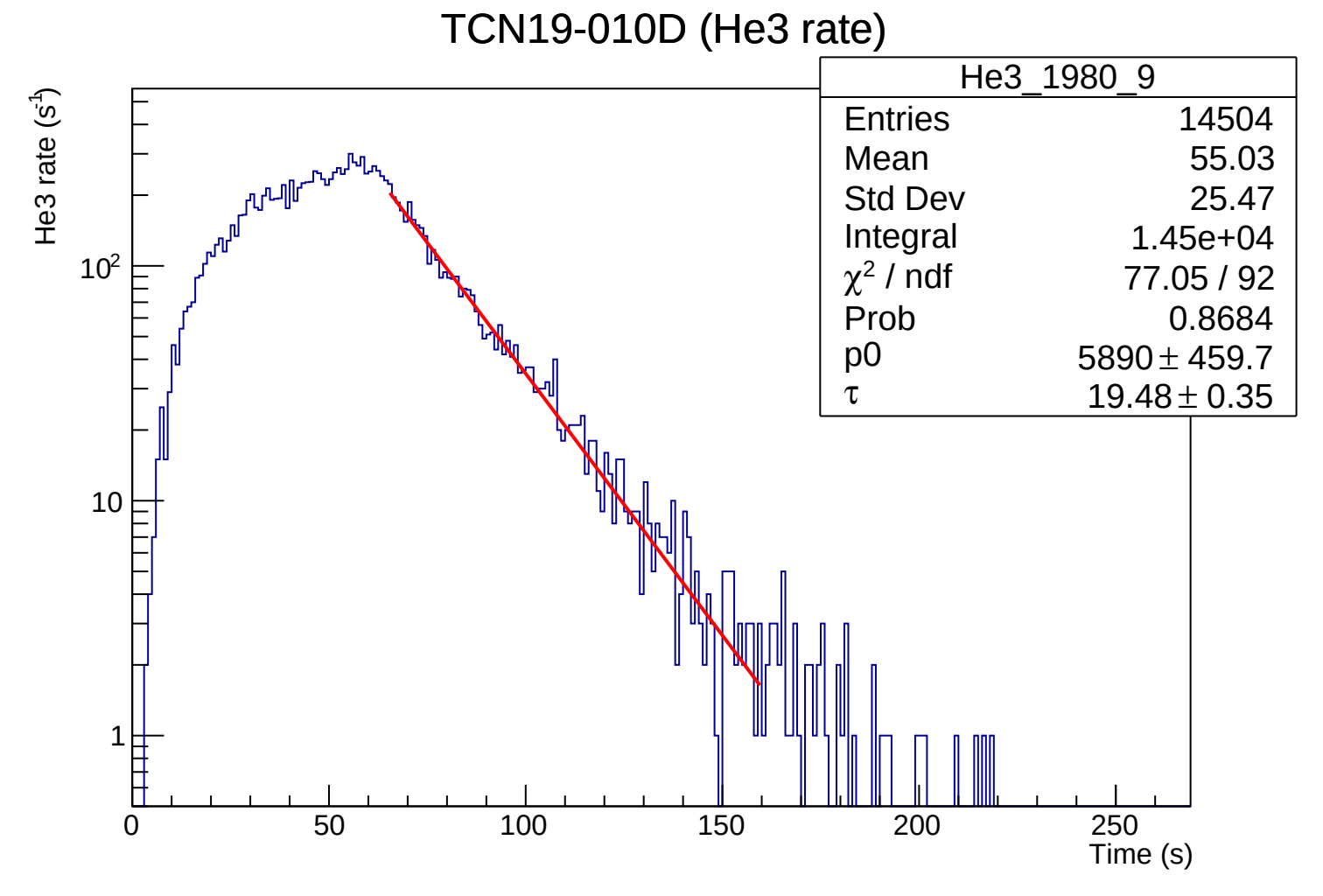

TCN19-010D (He3 rate)
He3_1980_4
Entries 14473
Mean 55.19
Std Dev 25.97
Integral 1.447e+04
χ² / ndf 82.55 / 93
Prob 0.7725
p0 6846 ± 542.3
τ 18.95 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

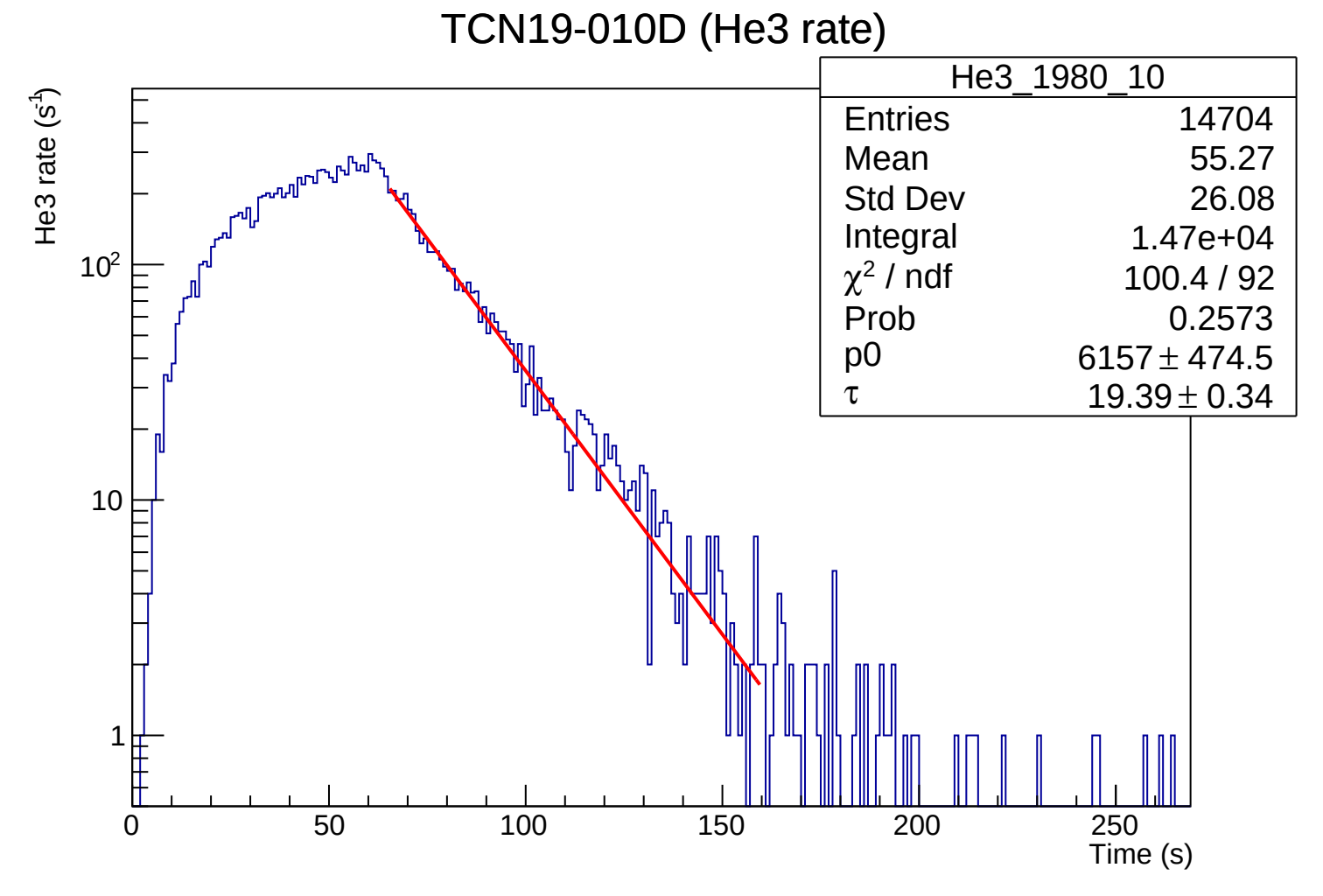

TCN19-010D (He3 rate)
He3_1980_5
Entries 14584
Mean 55.24
Std Dev 25.91
Integral 1.458e+04
χ² / ndf 110.7 / 93
Prob 0.1014
p0 6786 ± 550.0
τ 18.9 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

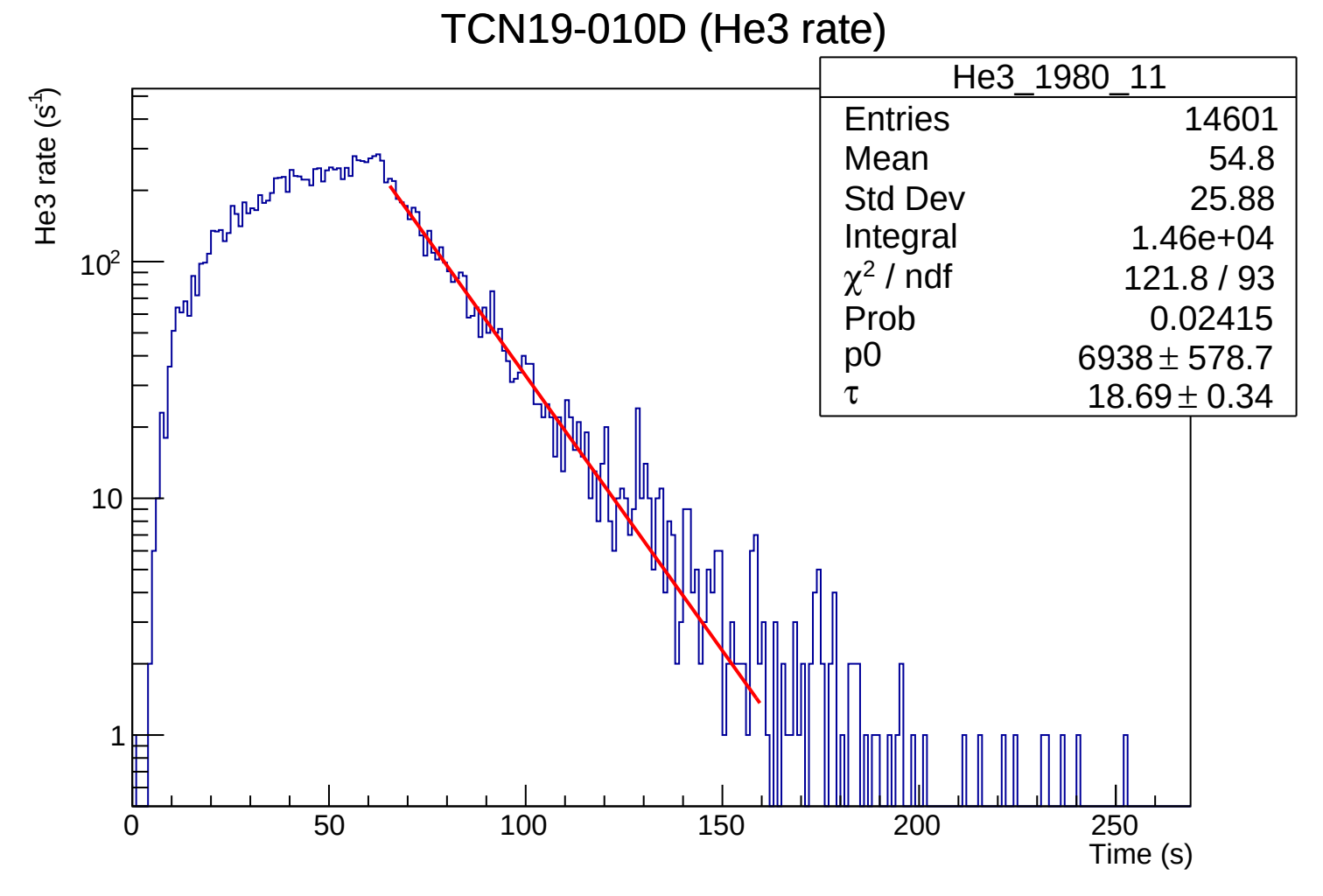

TCN19-010D (He3 rate)
He3_1980_6
Entries 14783
Mean 55.06
Std Dev 25.91
Integral 1.478e+04
χ² / ndf 100 / 92
Prob 0.2659
p0 7615 ± 623.6
τ 18.53 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

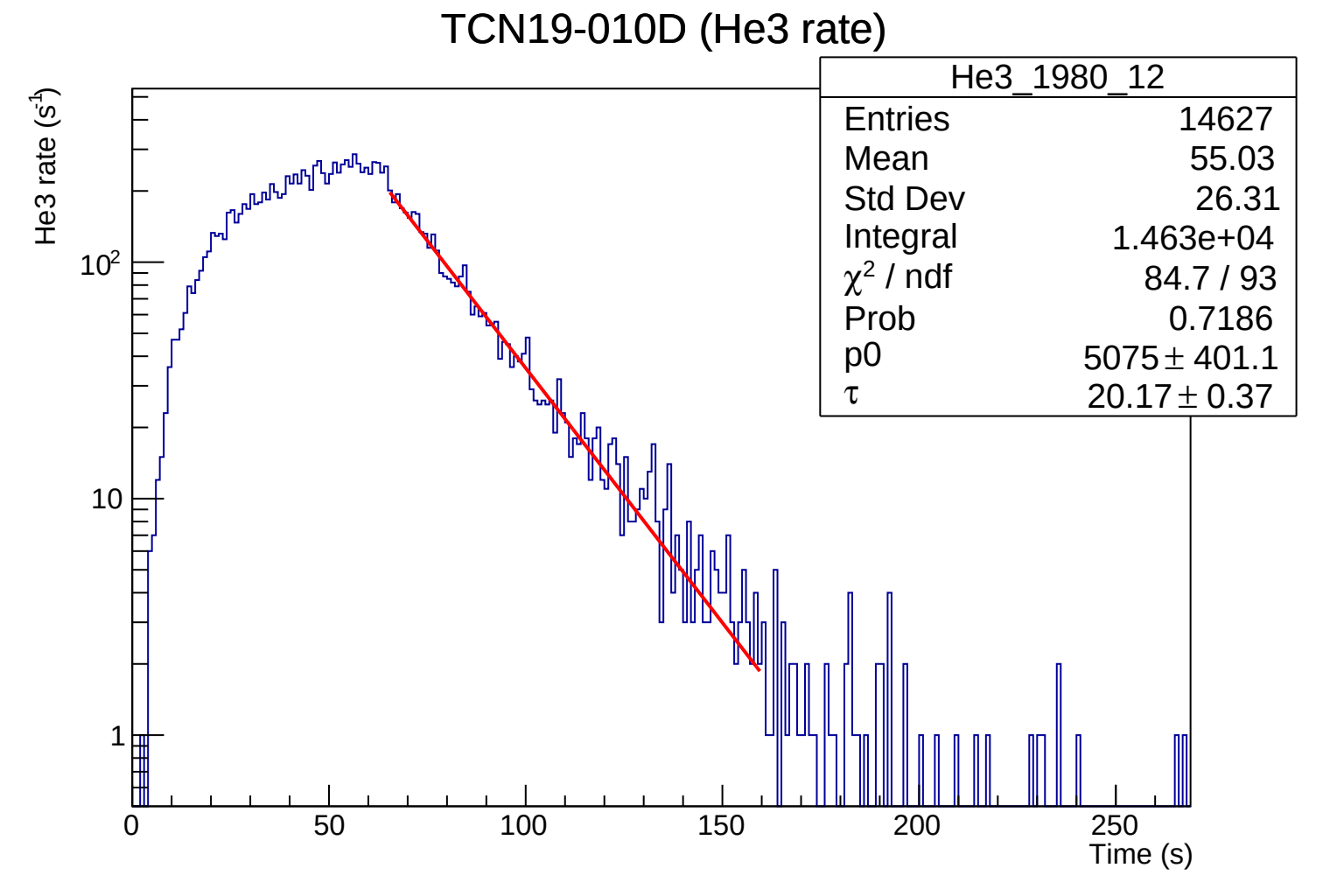

TCN19-010D (He3 rate)
He3_1980_7
Entries 14677
Mean 55.01
Std Dev 26.13
Integral 1.468e+04
χ² / ndf 82.87 / 93
Prob 0.7649
p0 6542 ± 495.7
τ 19.09 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

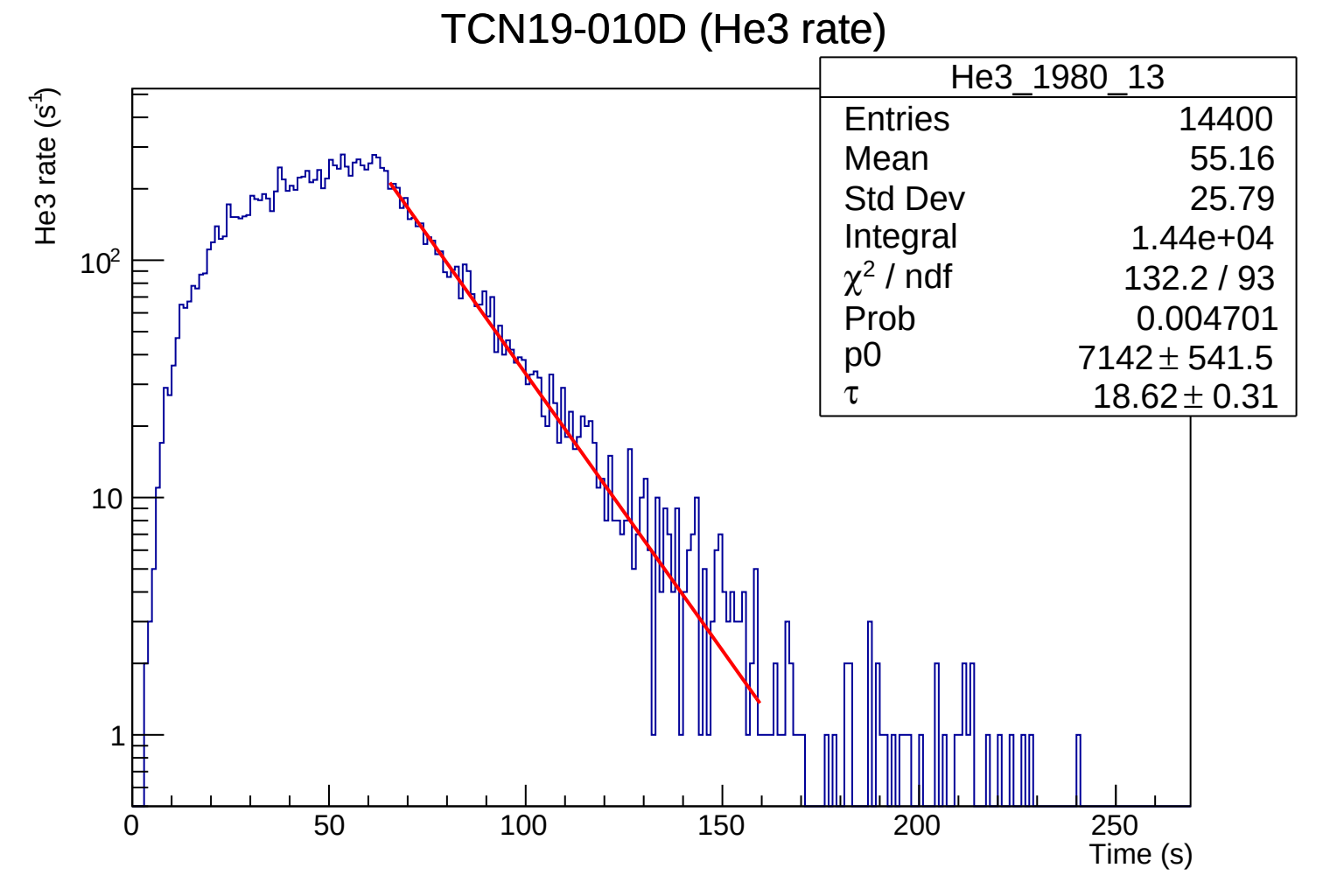

TCN19-010D (He3 rate)
He3_1980_8
Entries 14659
Mean 55.06
Std Dev 26.11
Integral 1.466e+04
χ² / ndf 73.35 / 93
Prob 0.9341
p0 5893 ± 448.2
τ 19.56 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

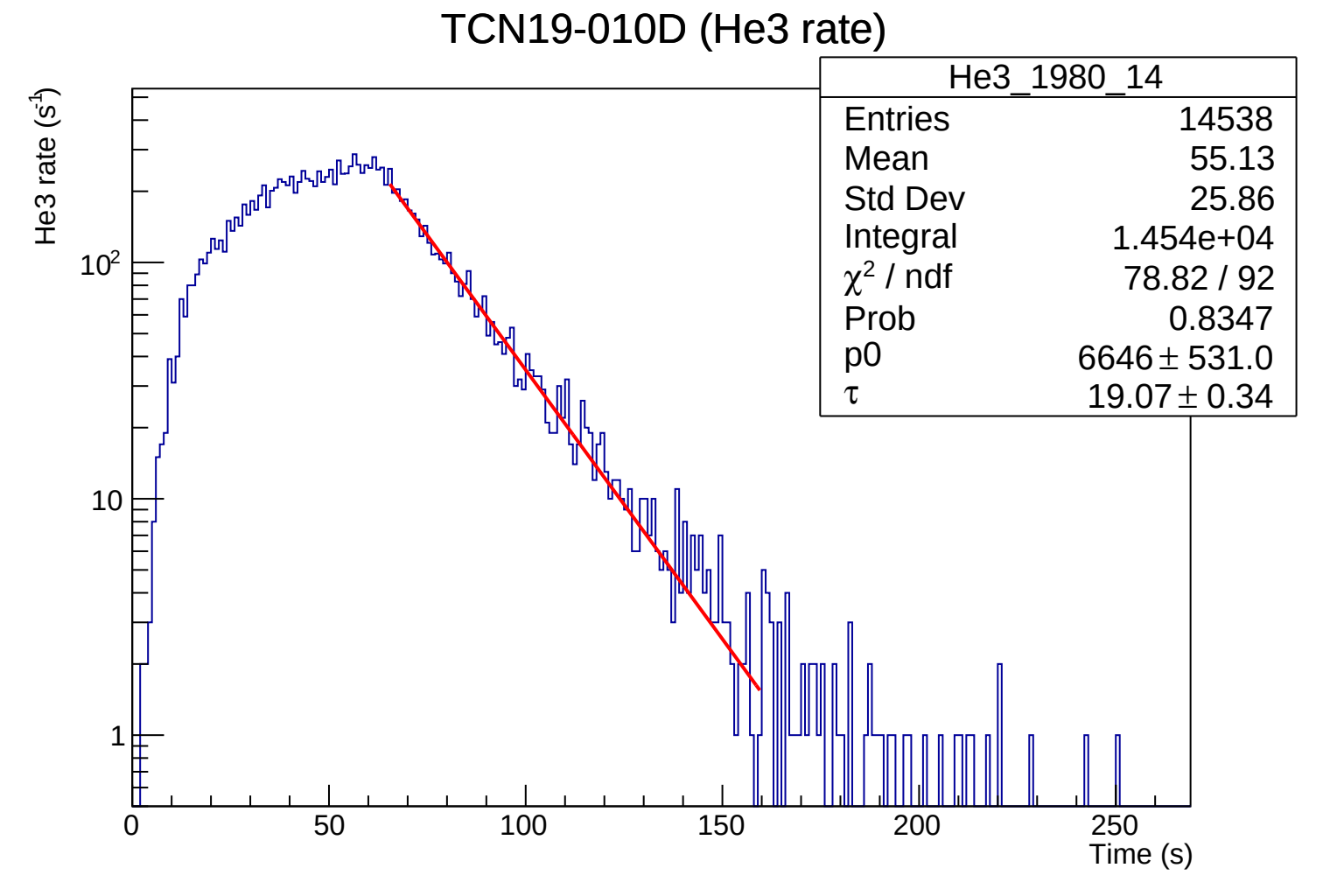

TCN19-010D (He3 rate)
He3_1980_9
Entries 14504
Mean 55.03
Std Dev 25.47
Integral 1.45e+04
χ² / ndf 77.05 / 92
Prob 0.8684
p0 5890 ± 459.7
τ 19.48 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

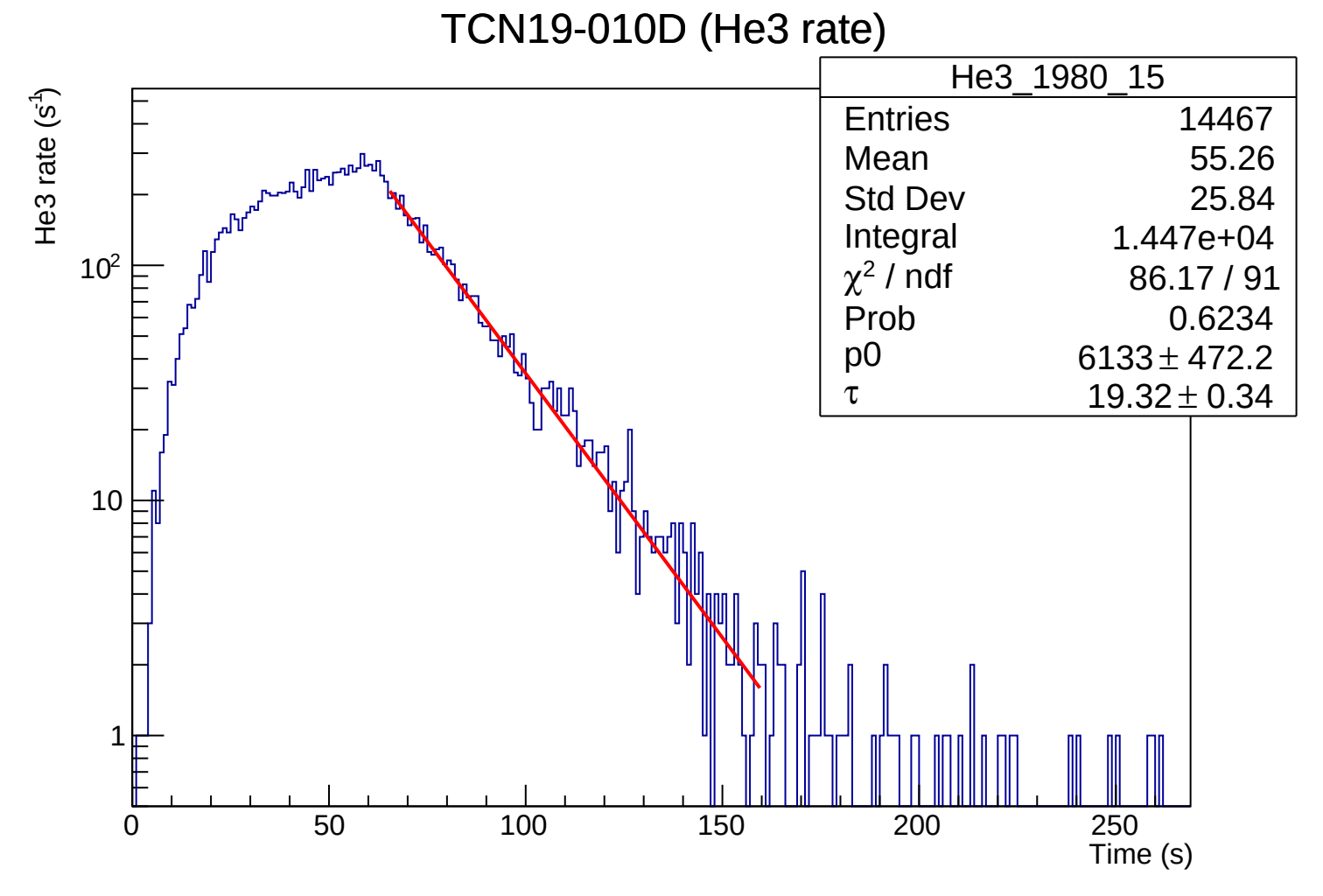

TCN19-010D (He3 rate)
He3_1980_10
Entries 14704
Mean 55.27
Std Dev 26.08
Integral 1.47e+04
χ² / ndf 100.4 / 92
Prob 0.2573
p0 6157 ± 474.5
τ 19.39 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

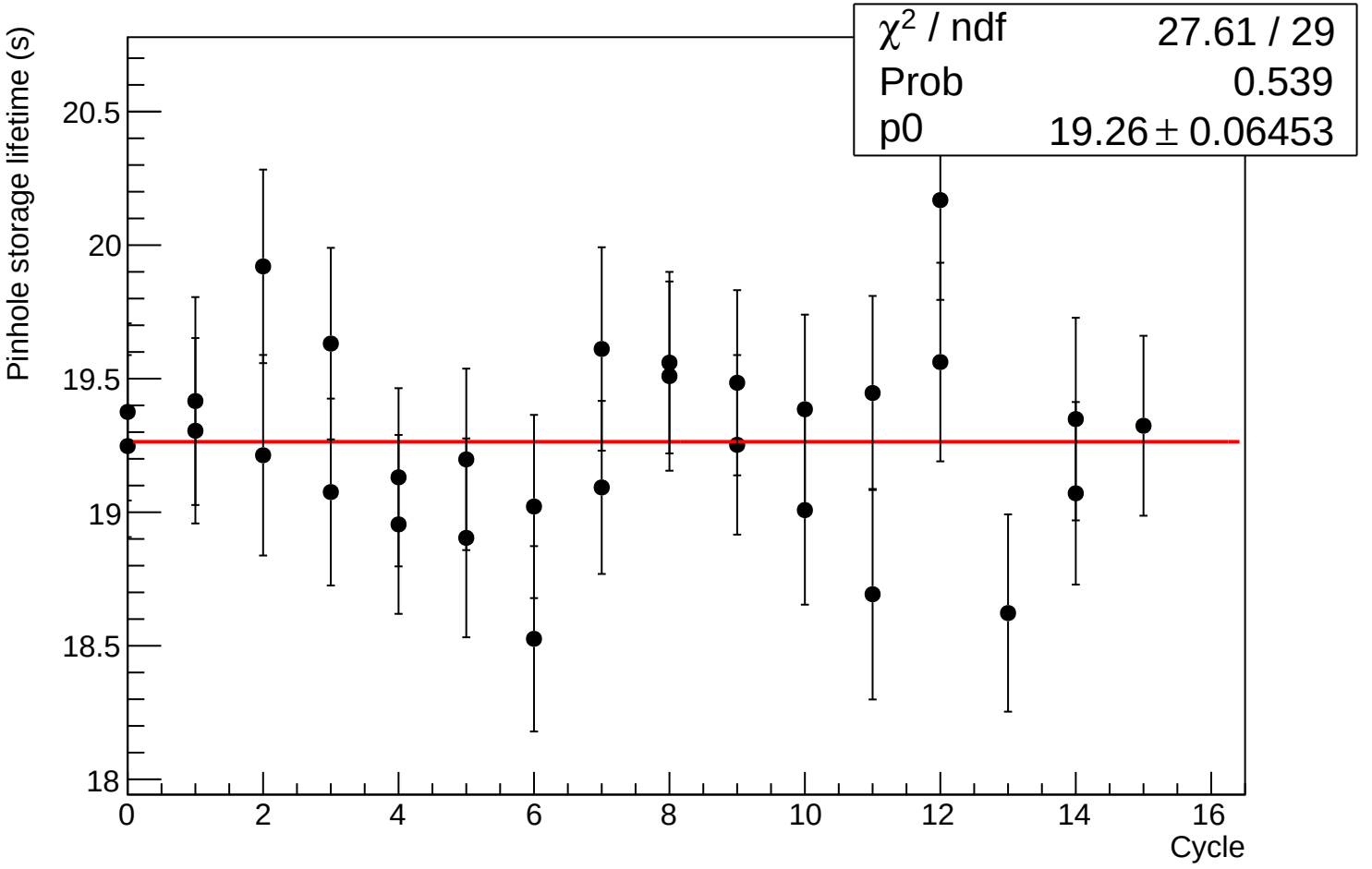

TCN19-010D (He3 rate)
He3_1980_11
Entries 14601
Mean 54.8
Std Dev 25.88
Integral 1.46e+04
χ² / ndf 121.8 / 93
Prob 0.02415
p0 6938 ± 578.7
τ 18.69 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

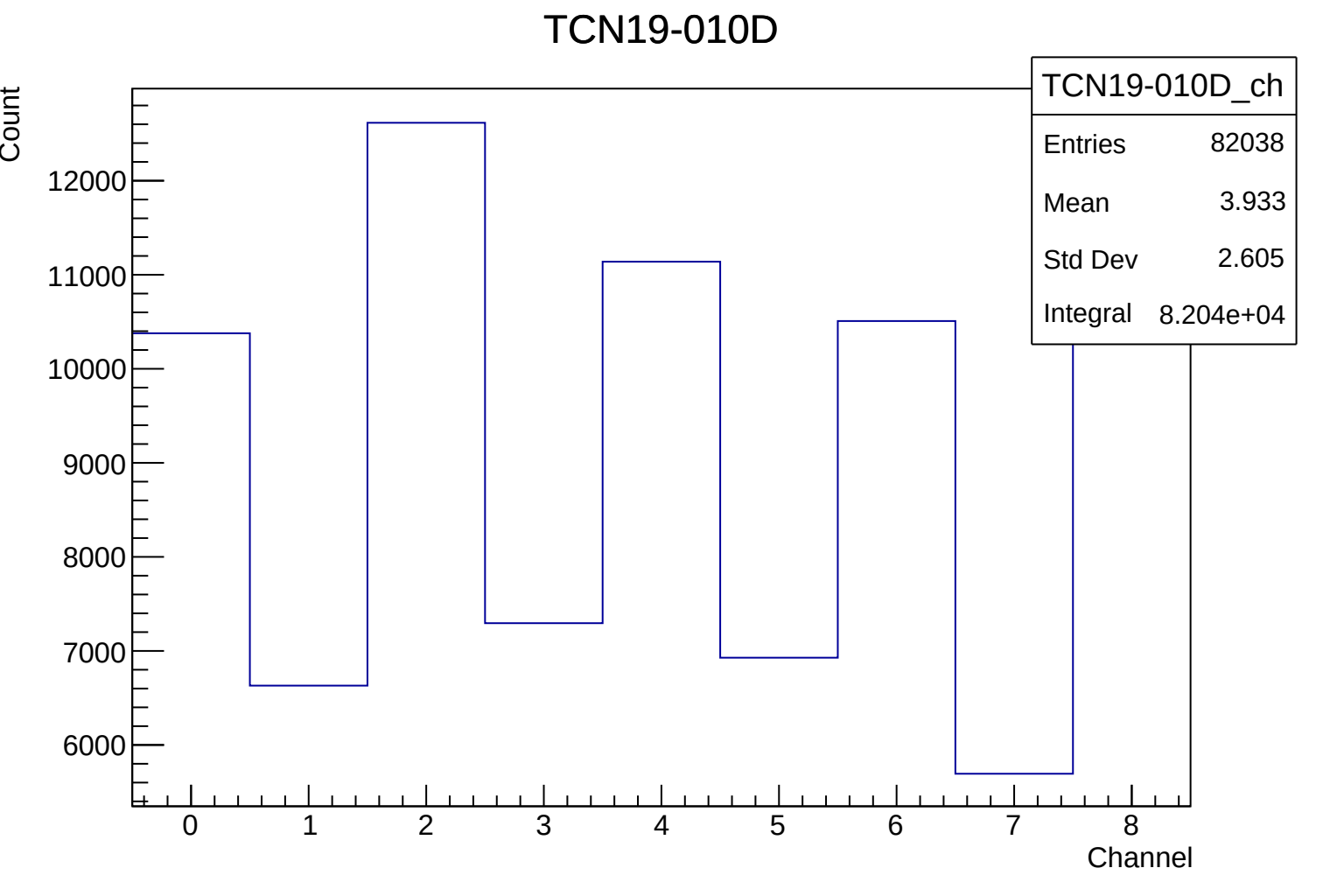

TCN19-010D (He3 rate)
He3_1980_12
Entries 14627
Mean 55.03
Std Dev 26.31
Integral 1.463e+04
χ² / ndf 84.7 / 93
Prob 0.7186
p0 5075 ± 401.1
τ 20.17 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-010D (He3 rate)
He3_1980_13
Entries 14400
Mean 55.16
Std Dev 25.79
Integral 1.44e+04
χ² / ndf 132.2 / 93
Prob 0.004701
p0 7142 ± 541.5
τ 18.62 ± 0.31
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-010D (He3 rate)
He3_1980_14
Entries 14538
Mean 55.13
Std Dev 25.86
Integral 1.454e+04
χ² / ndf 78.82 / 92
Prob 0.8347
p0 6646 ± 531.0
τ 19.07 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-010D (He3 rate)
He3_1980_15
Entries 14467
Mean 55.26
Std Dev 25.84
Integral 1.447e+04
χ² / ndf 86.17 / 91
Prob 0.6234
p0 6133 ± 472.2
τ 19.32 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


χ^2 / ndf 27.61 / 29
Prob 0.539
p0 19.26 ± 0.06453
Pinhole storage lifetime (s)
20.5
20
19.5
19
18.5
18
0
2
4
6
8
10
12
14
16
Cycle


TCN19-010D
TCN19-010D_ch
Entries 82038
Mean 3.933
Std Dev 2.605
Integral 8.204e+04
Count
12000
11000
10000
9000
8000
7000
6000
0
1
2
3
4
5
6
7
8
Channel