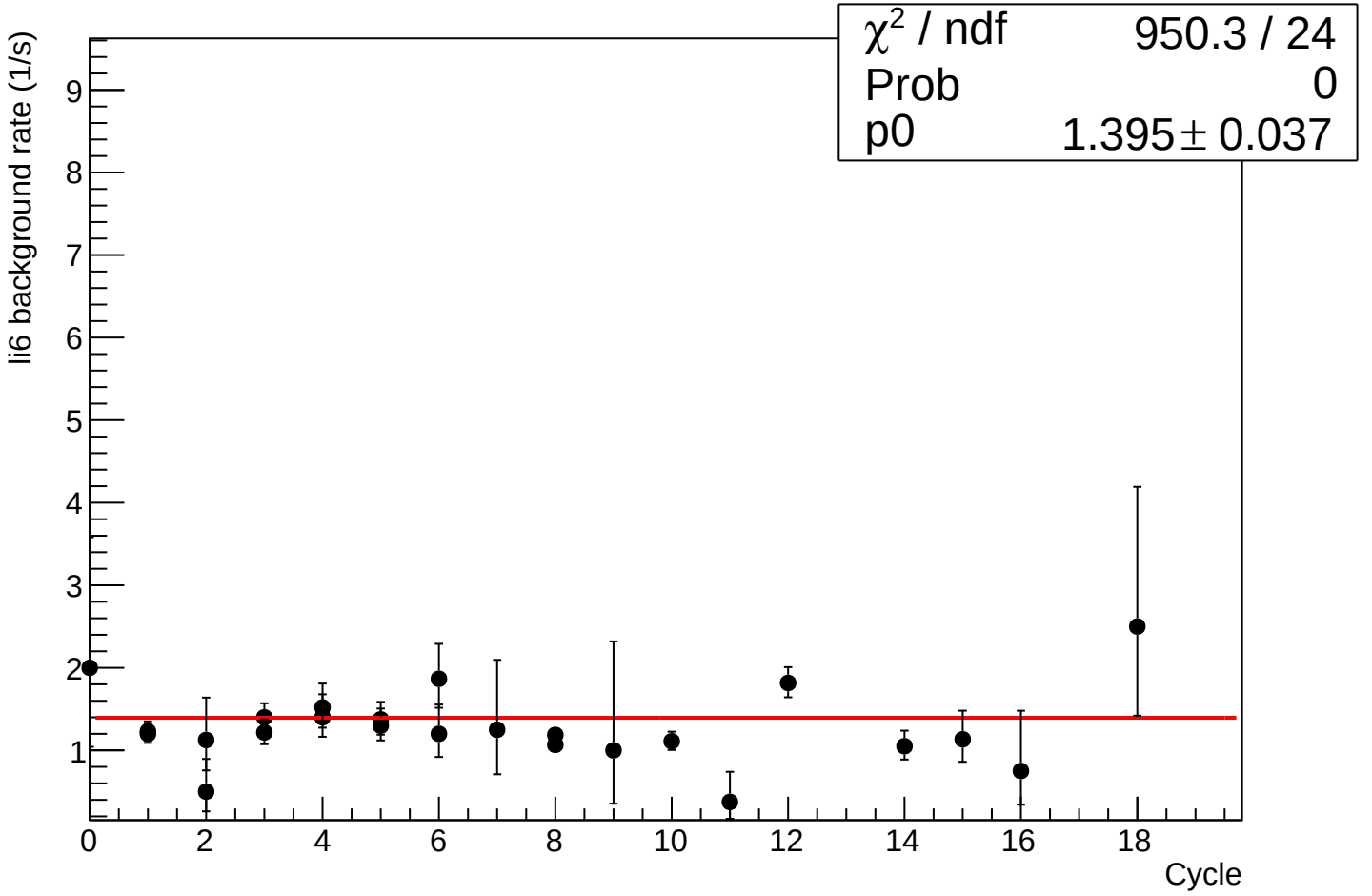
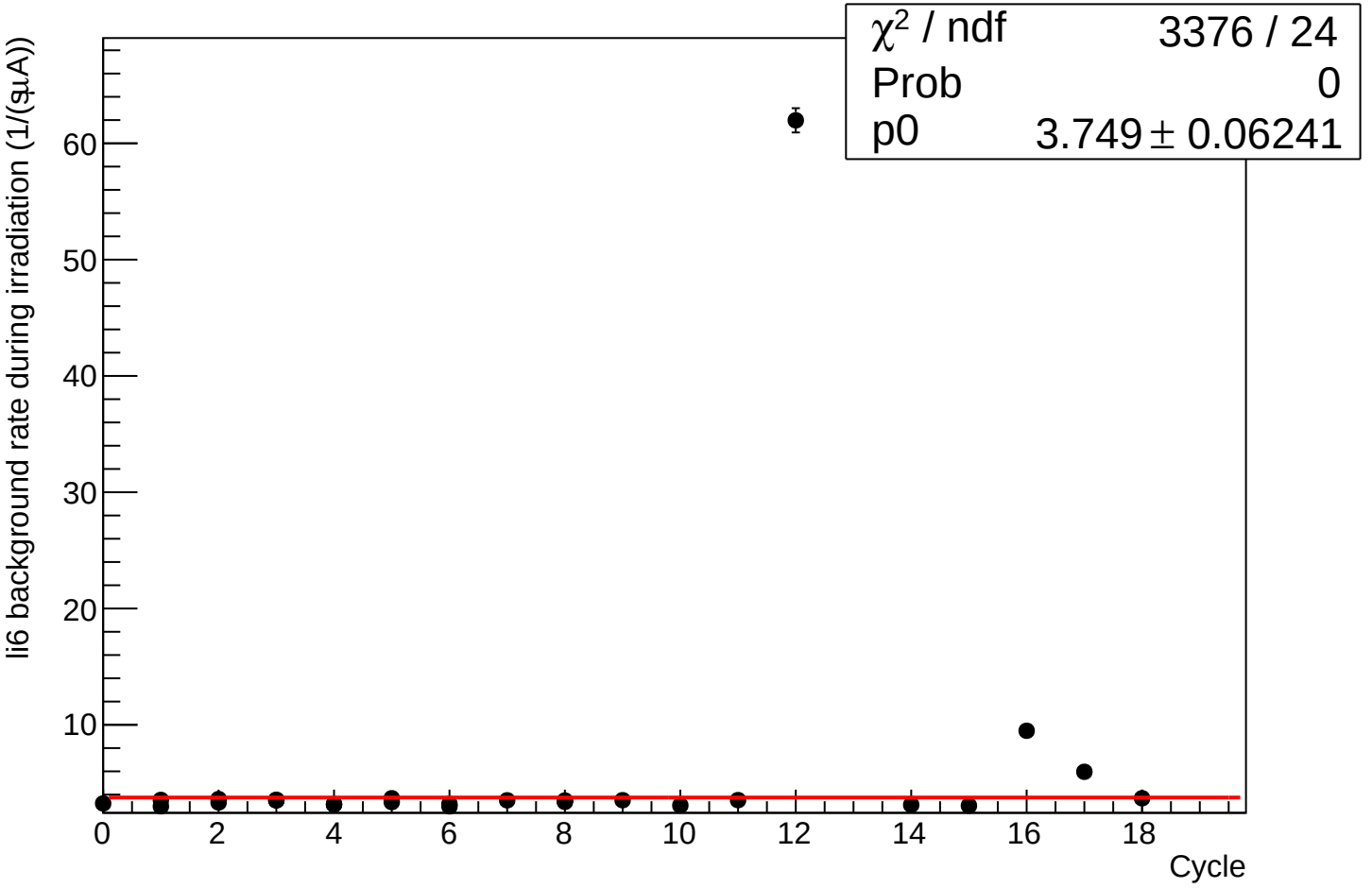
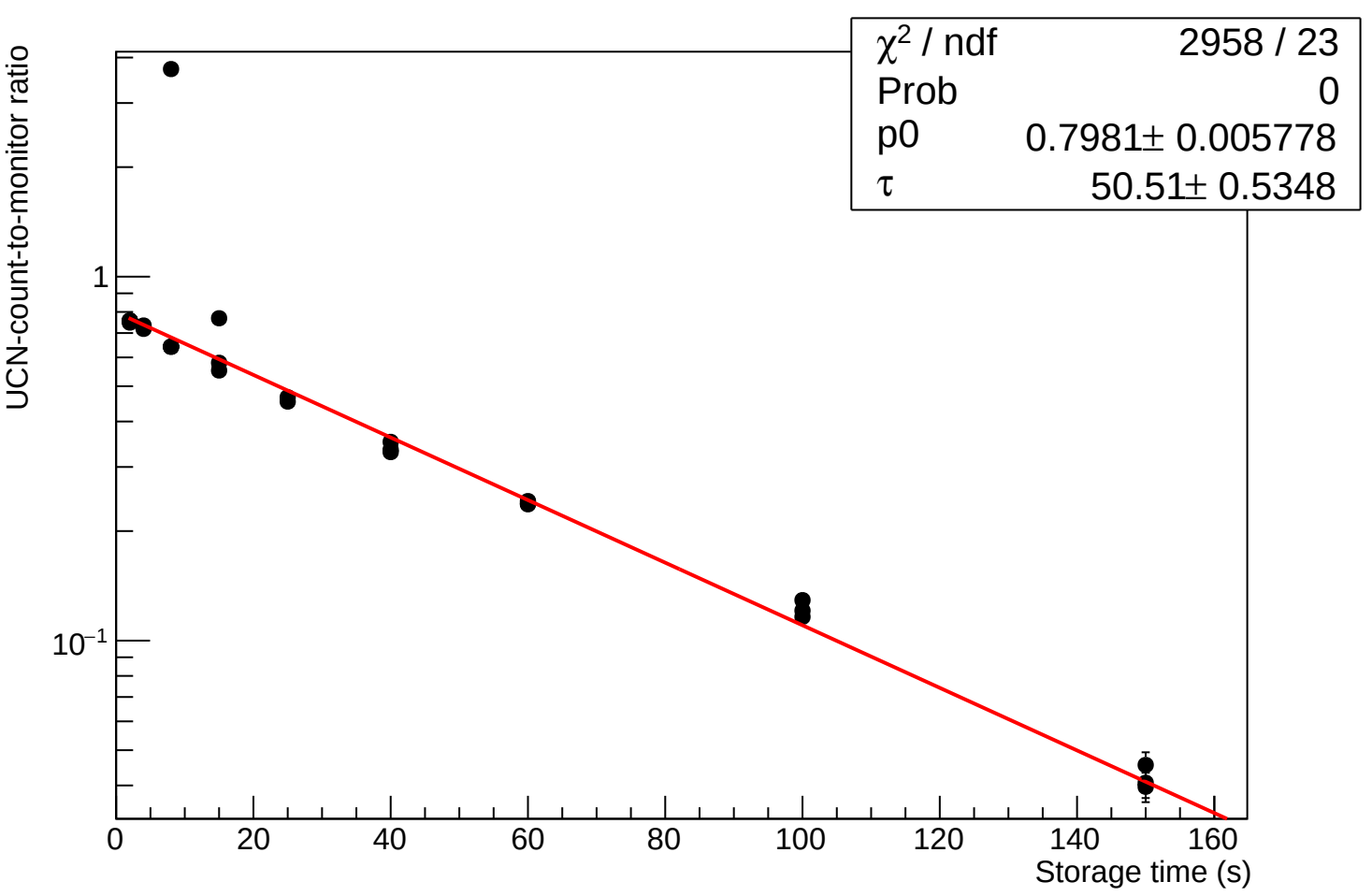
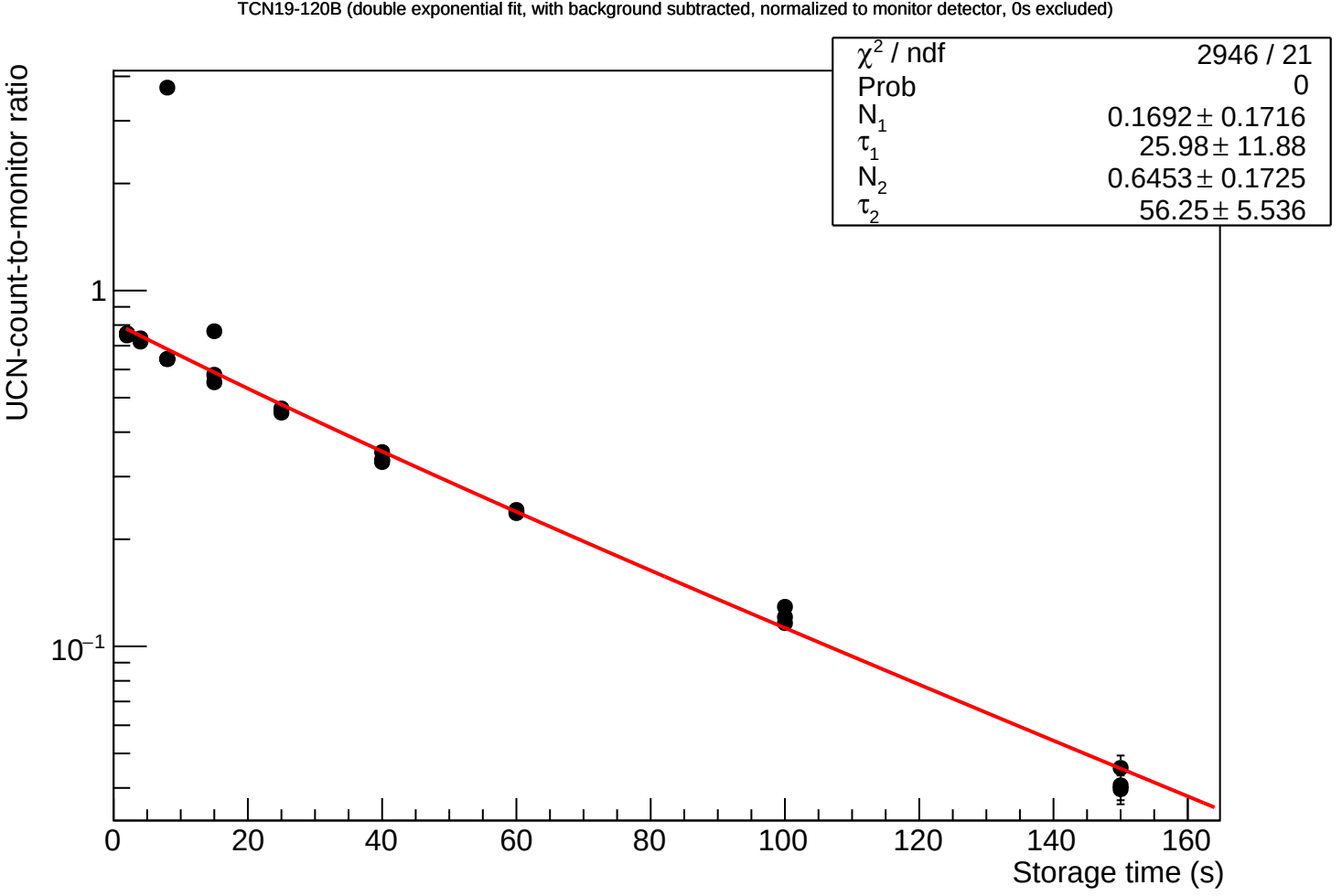
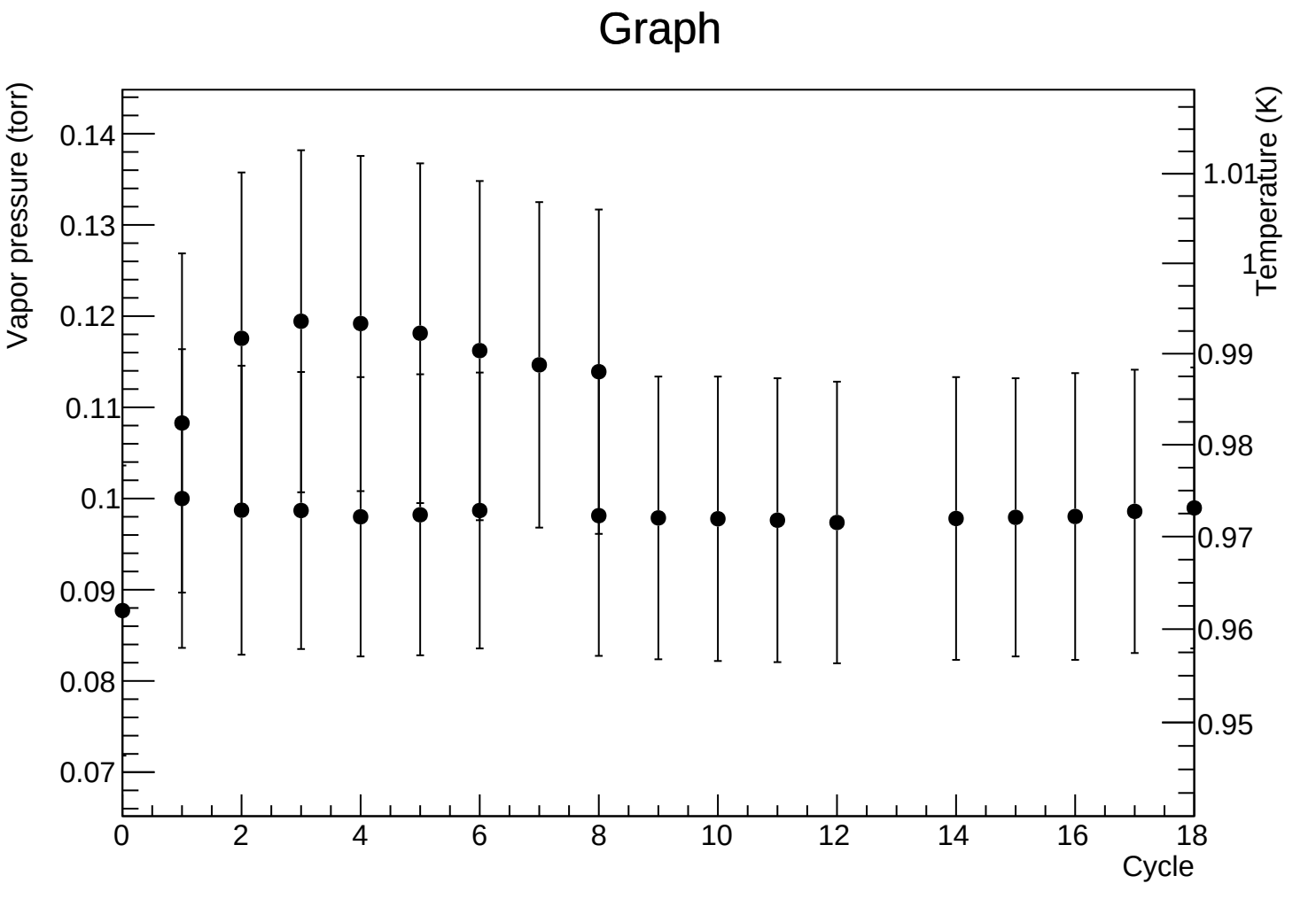
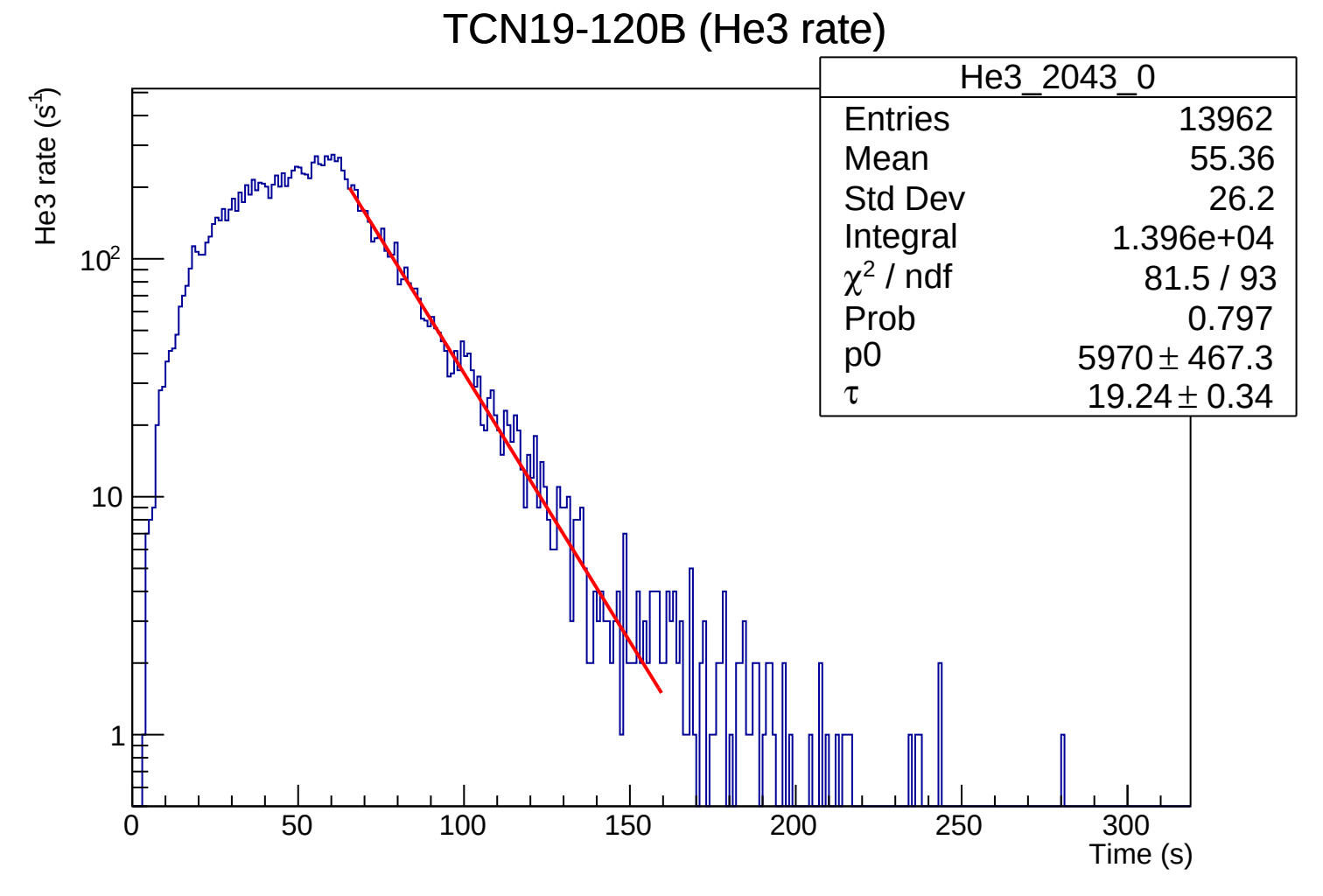

χ^2 / ndf 950.3 / 24
Prob 0
p0 1.395 ± 0.037
li6 background rate (1/s)
Cycle
0
1
2
3
4
5
6
7
8
9
0
2
4
6
8
10
12
14
16
18

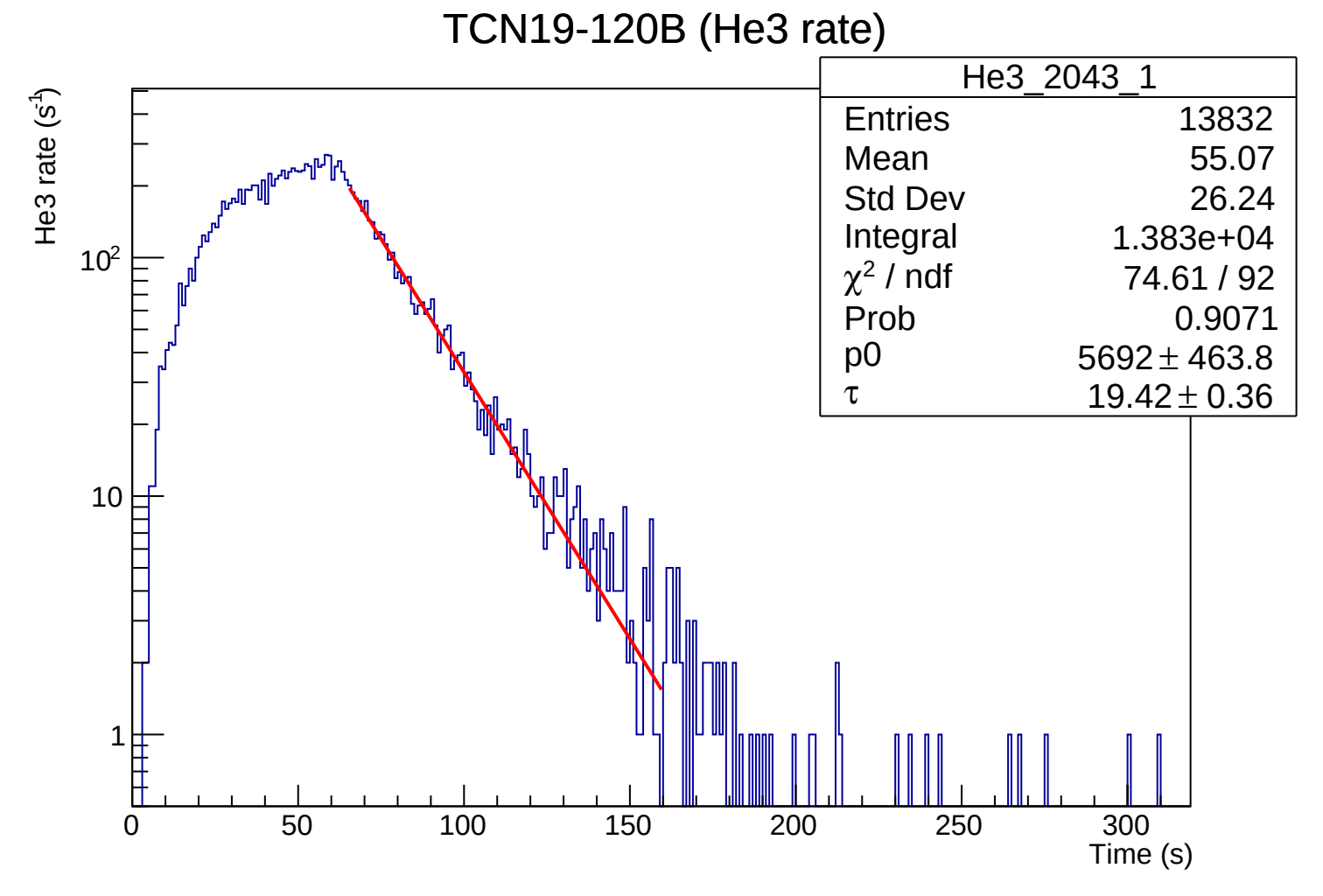

li6 background rate during irradiation (1/(μA))
Cycle
χ² / ndf 3376 / 24
Prob 0
p0 3.749 ± 0.06241
0
2
4
6
8
10
12
14
16
18
10
20
30
40
50
60

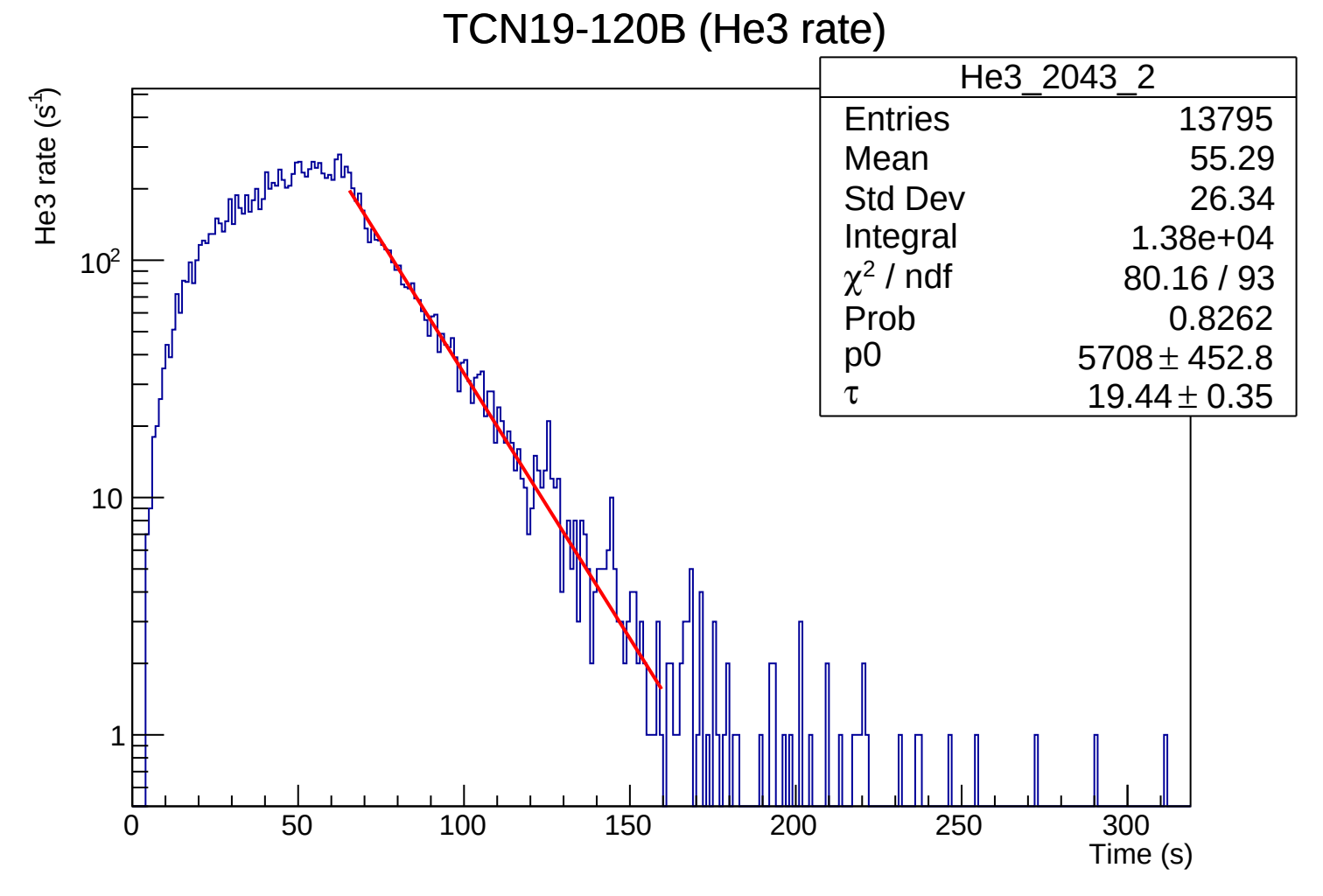

TCN19-120B (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 2958 / 23
Prob 0
p0 0.7981± 0.005778
τ 50.51± 0.5348
UCN-count-to-monitor ratio
1
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

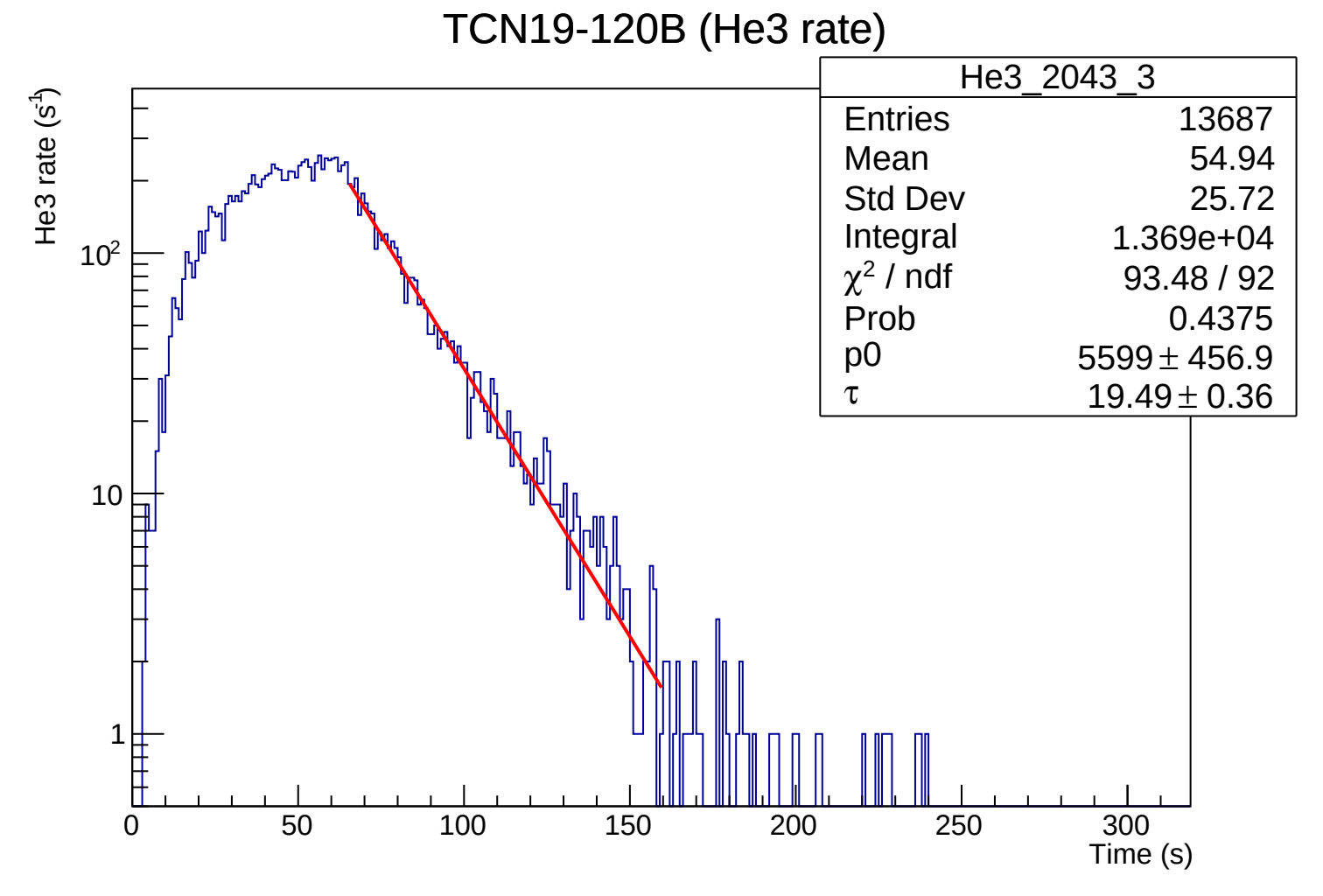

TCN19-120B (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ^2 / ndf 2946 / 21
Prob 0
N_1 0.1692 ± 0.1716
τ_1 25.98 ± 11.88
N_2 0.6453 ± 0.1725
τ_2 56.25 ± 5.536
UCN-count-to-monitor ratio
1
10^{-1}
0
20
40
60
80
100
120
140
160
Storage time (s)

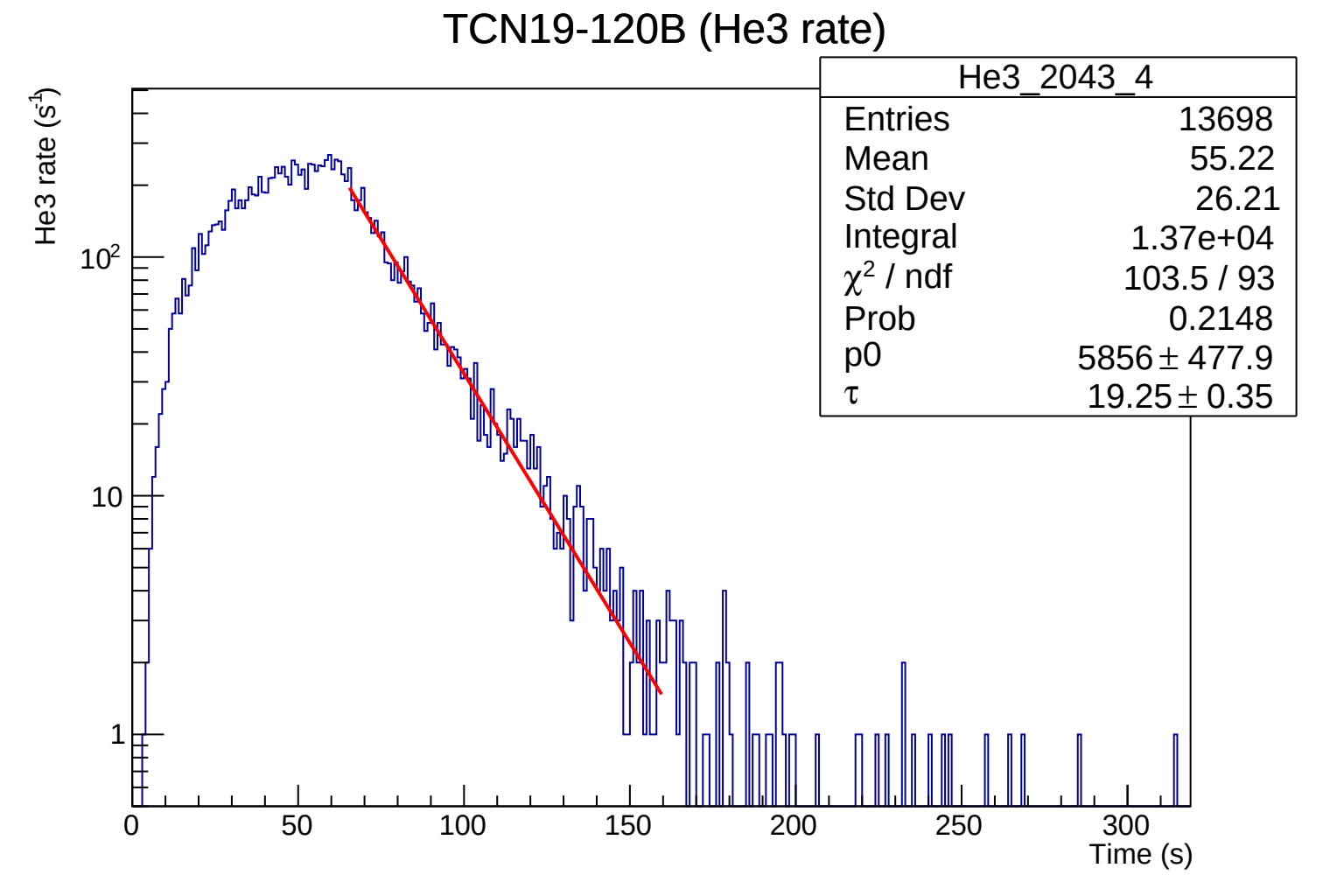

Graph
Vapor pressure (torr)
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
Temperature (K)
1.01
1
0.99
0.98
0.97
0.96
0.95
0
2
4
6
8
10
12
14
16
18
Cycle

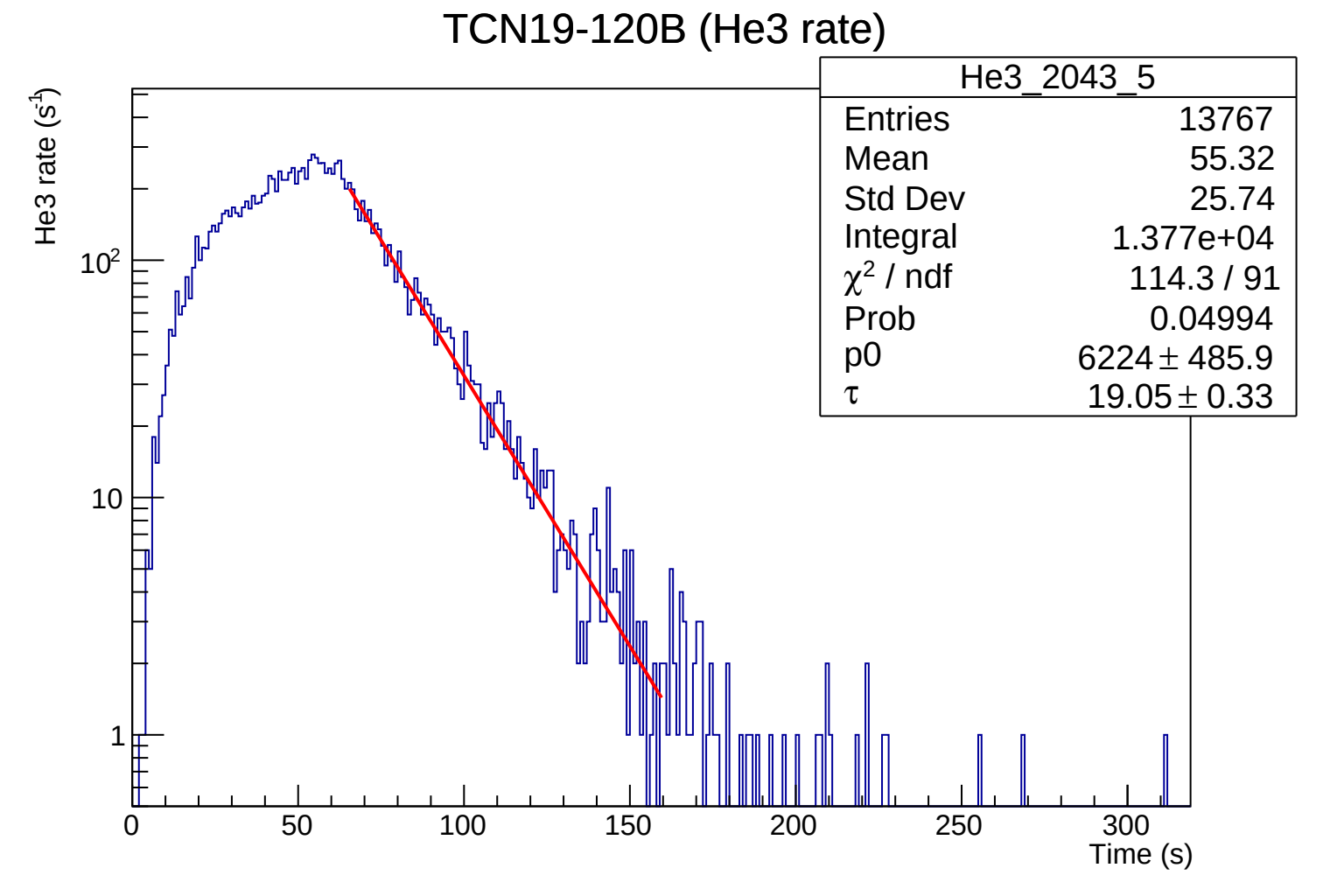

TCN19-120B (He3 rate)
He3_2043_0
Entries 13962
Mean 55.36
Std Dev 26.2
Integral 1.396e+04
χ² / ndf 81.5 / 93
Prob 0.797
p0 5970 ± 467.3
τ 19.24 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

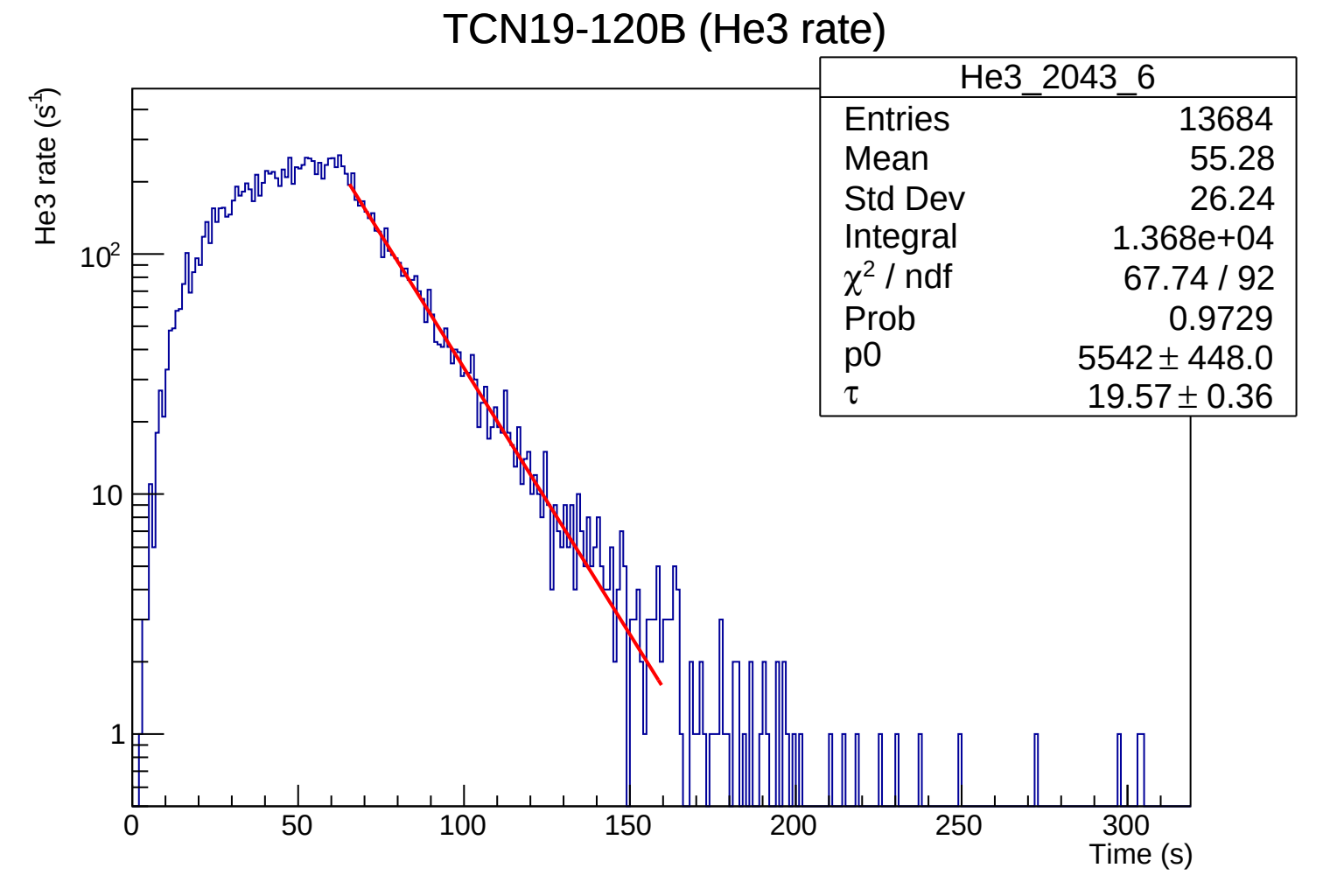

TCN19-120B (He3 rate)
He3_2043_1
Entries 13832
Mean 55.07
Std Dev 26.24
Integral 1.383e+04
χ² / ndf 74.61 / 92
Prob 0.9071
p0 5692 ± 463.8
τ 19.42 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

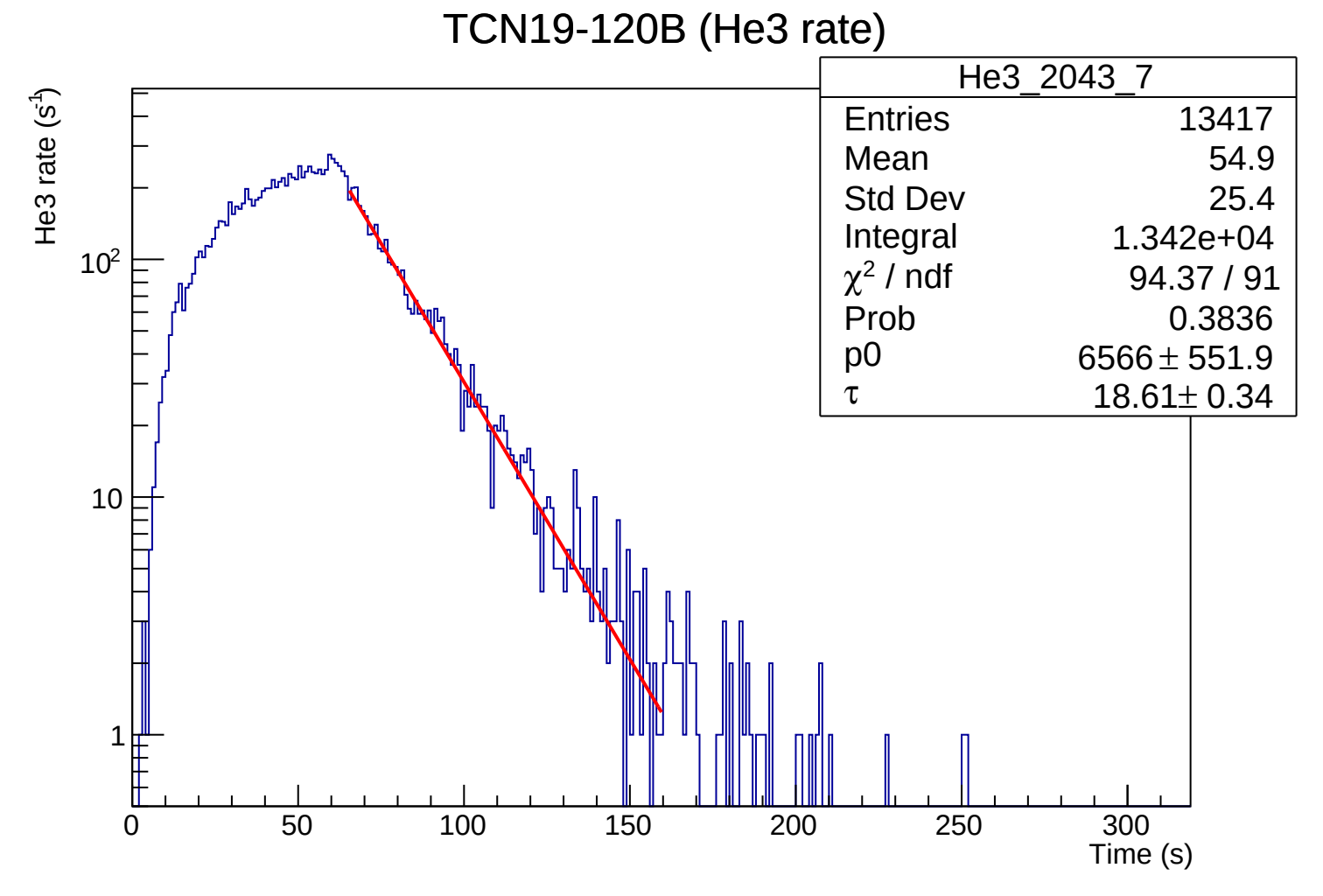

TCN19-120B (He3 rate)
He3_2043_2
Entries 13795
Mean 55.29
Std Dev 26.34
Integral 1.38e+04
χ² / ndf 80.16 / 93
Prob 0.8262
p0 5708 ± 452.8
τ 19.44 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

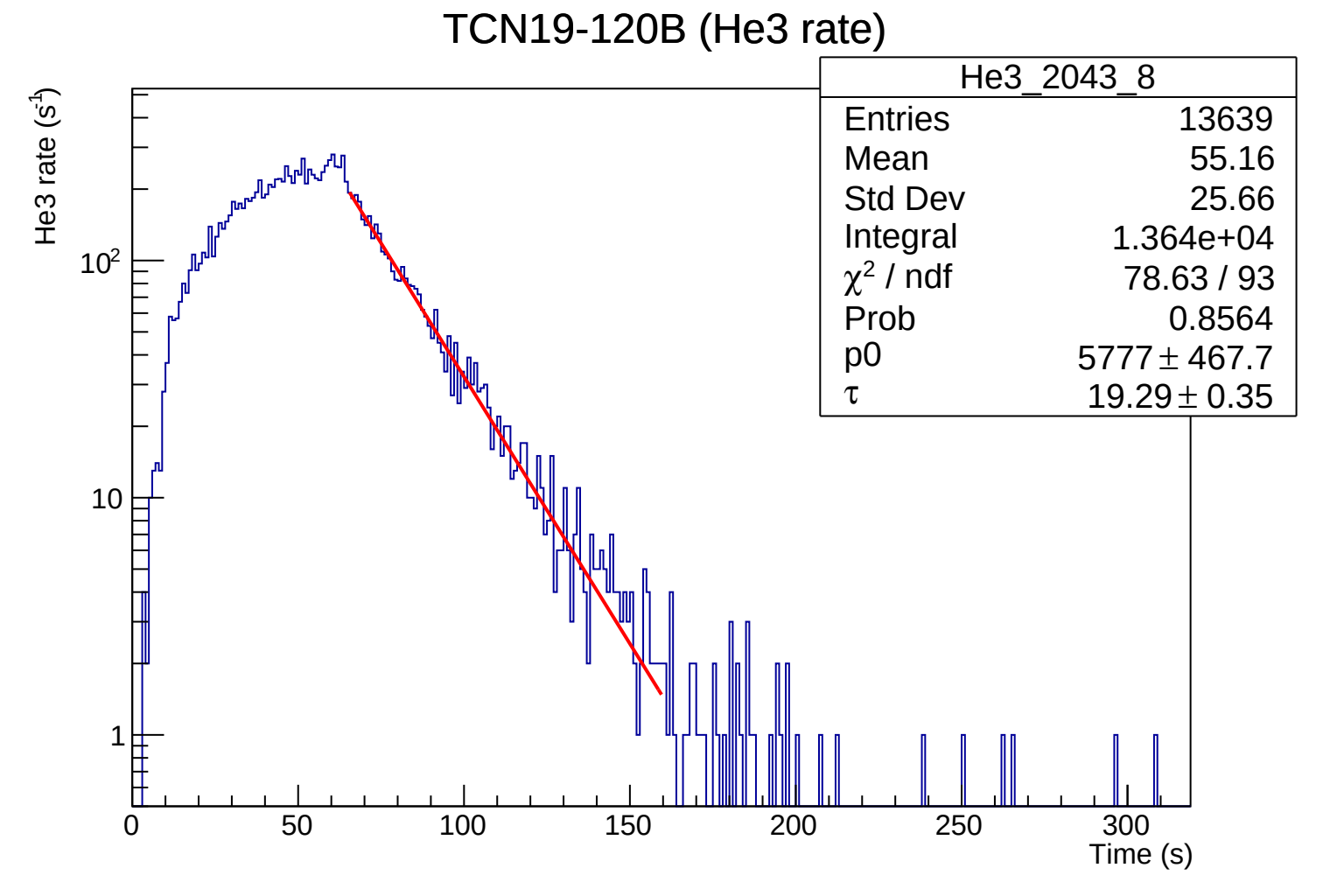

TCN19-120B (He3 rate)
He3_2043_3
Entries 13687
Mean 54.94
Std Dev 25.72
Integral 1.369e+04
χ² / ndf 93.48 / 92
Prob 0.4375
p0 5599 ± 456.9
τ 19.49 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

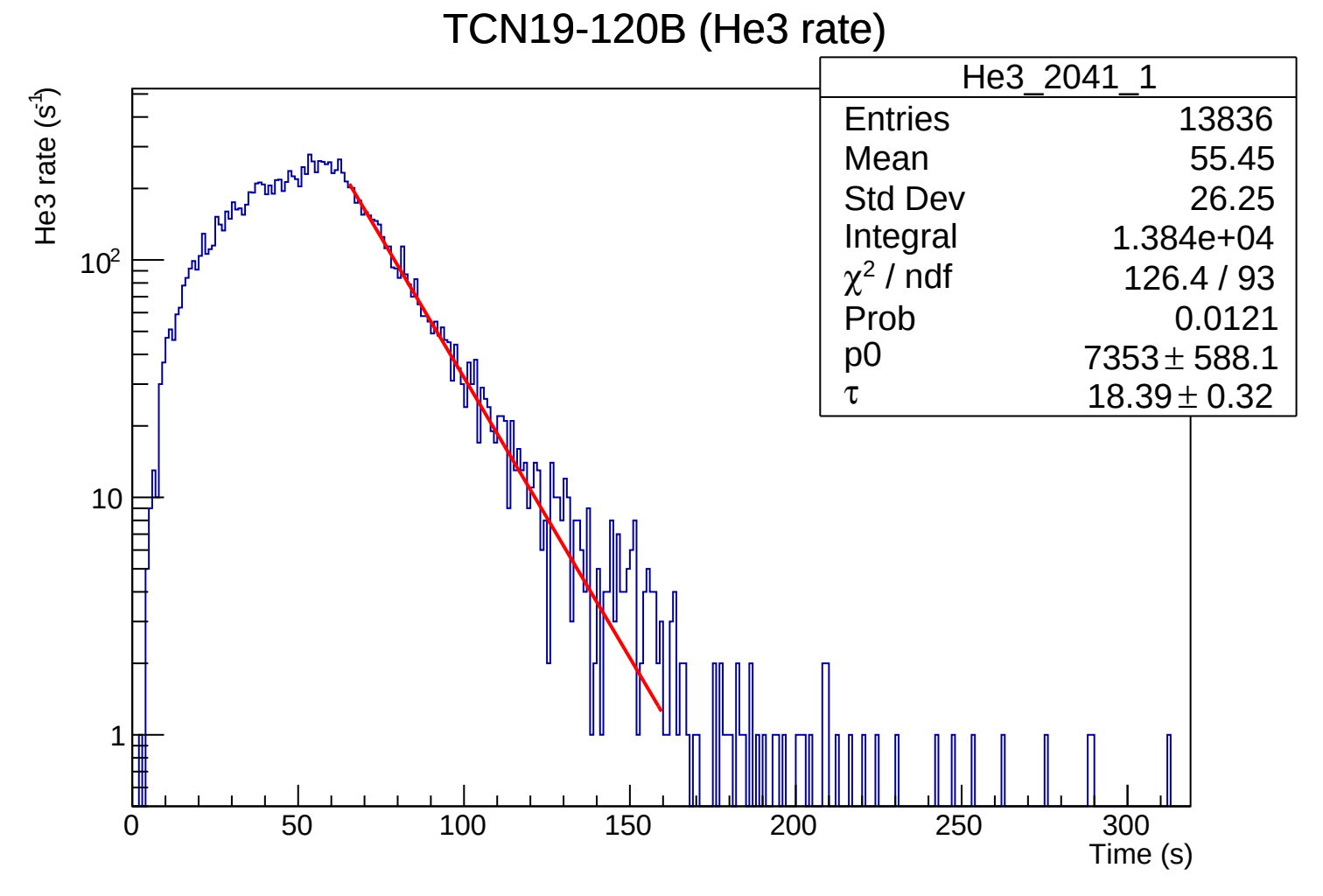

TCN19-120B (He3 rate)
He3_2043_4
Entries 13698
Mean 55.22
Std Dev 26.21
Integral 1.37e+04
χ² / ndf 103.5 / 93
Prob 0.2148
p0 5856 ± 477.9
τ 19.25 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

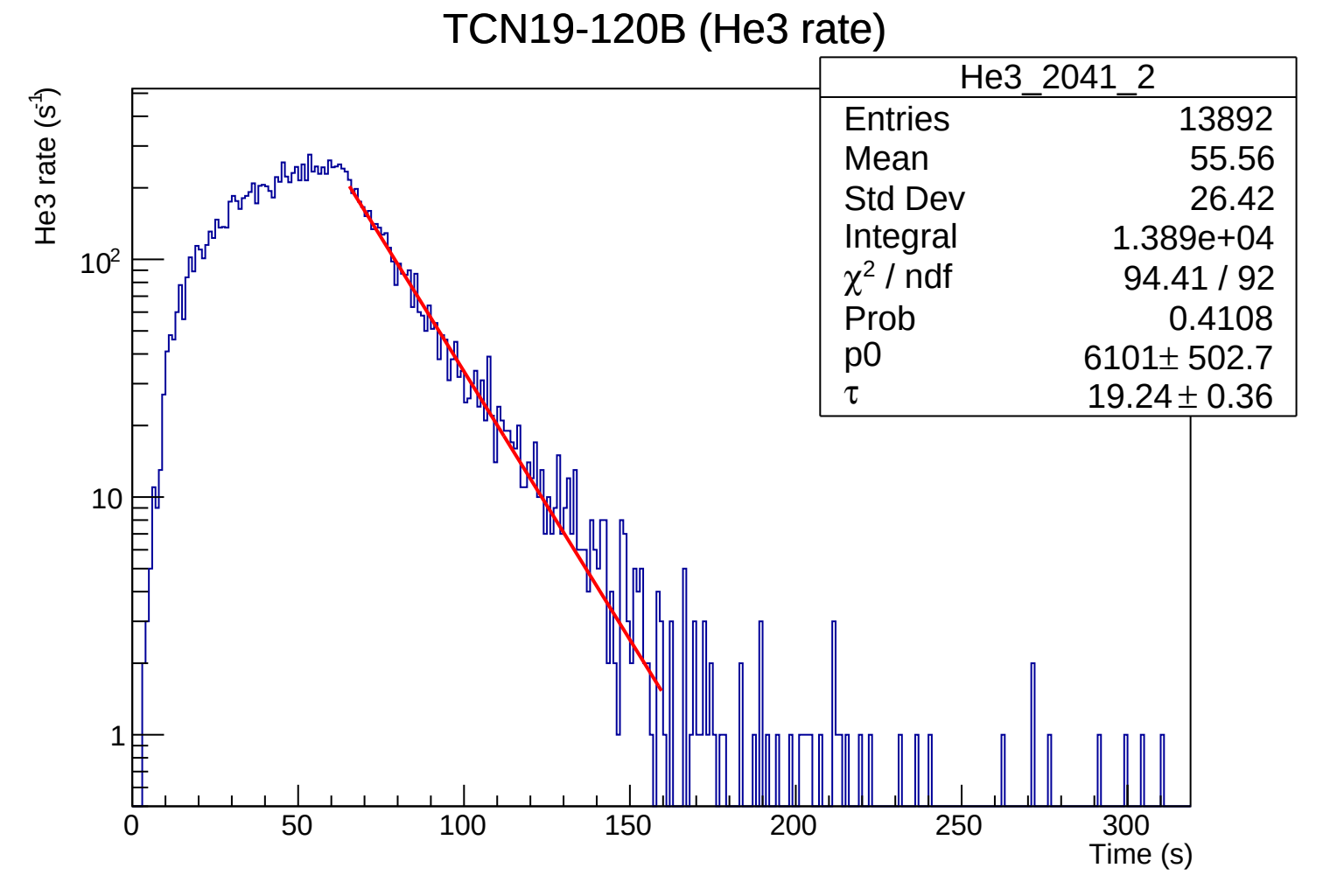

TCN19-120B (He3 rate)
He3_2043_5
Entries 13767
Mean 55.32
Std Dev 25.74
Integral 1.377e+04
χ² / ndf 114.3 / 91
Prob 0.04994
p0 6224 ± 485.9
τ 19.05 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

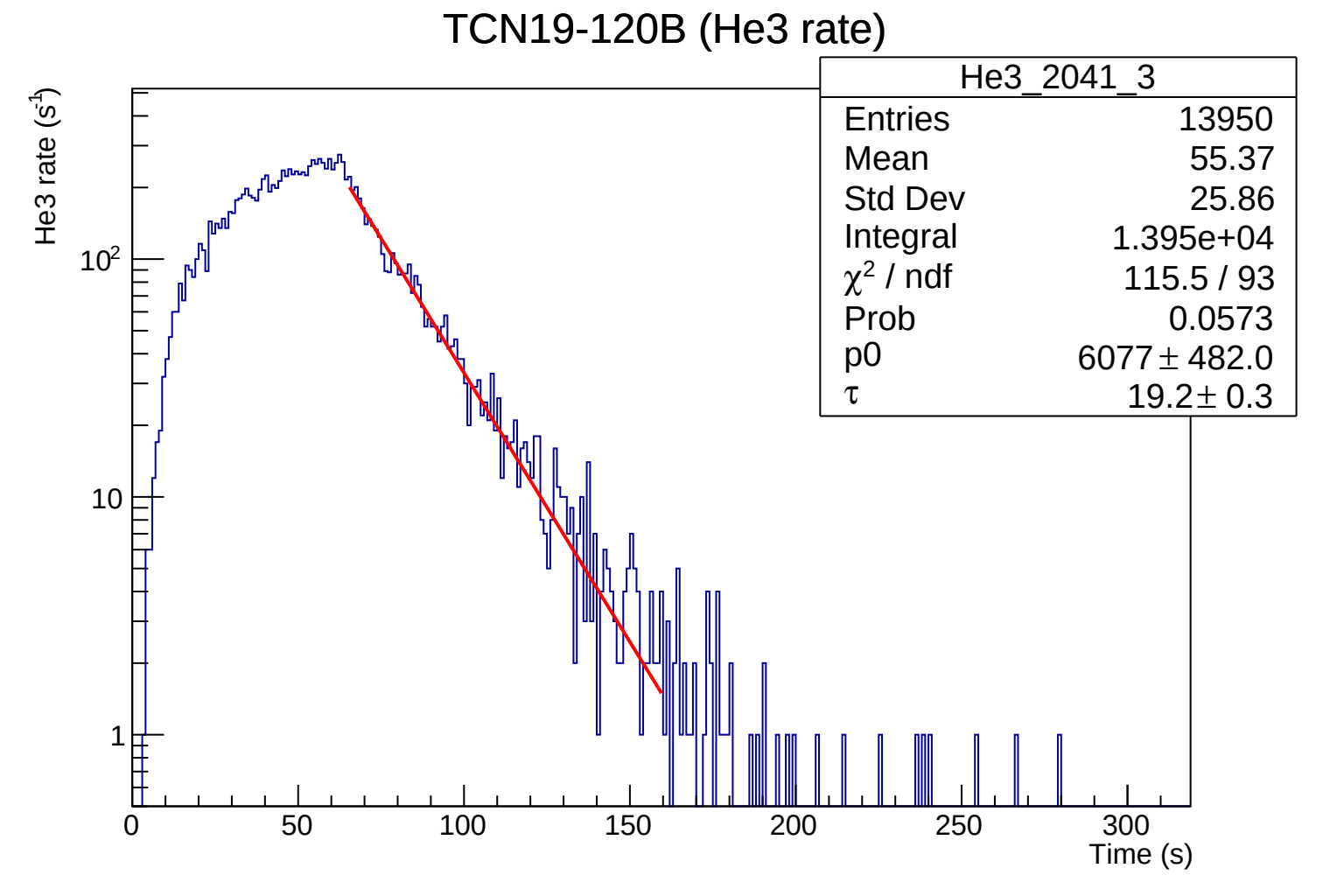

TCN19-120B (He3 rate)
He3_2043_6
Entries 13684
Mean 55.28
Std Dev 26.24
Integral 1.368e+04
χ² / ndf 67.74 / 92
Prob 0.9729
p0 5542 ± 448.0
τ 19.57 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

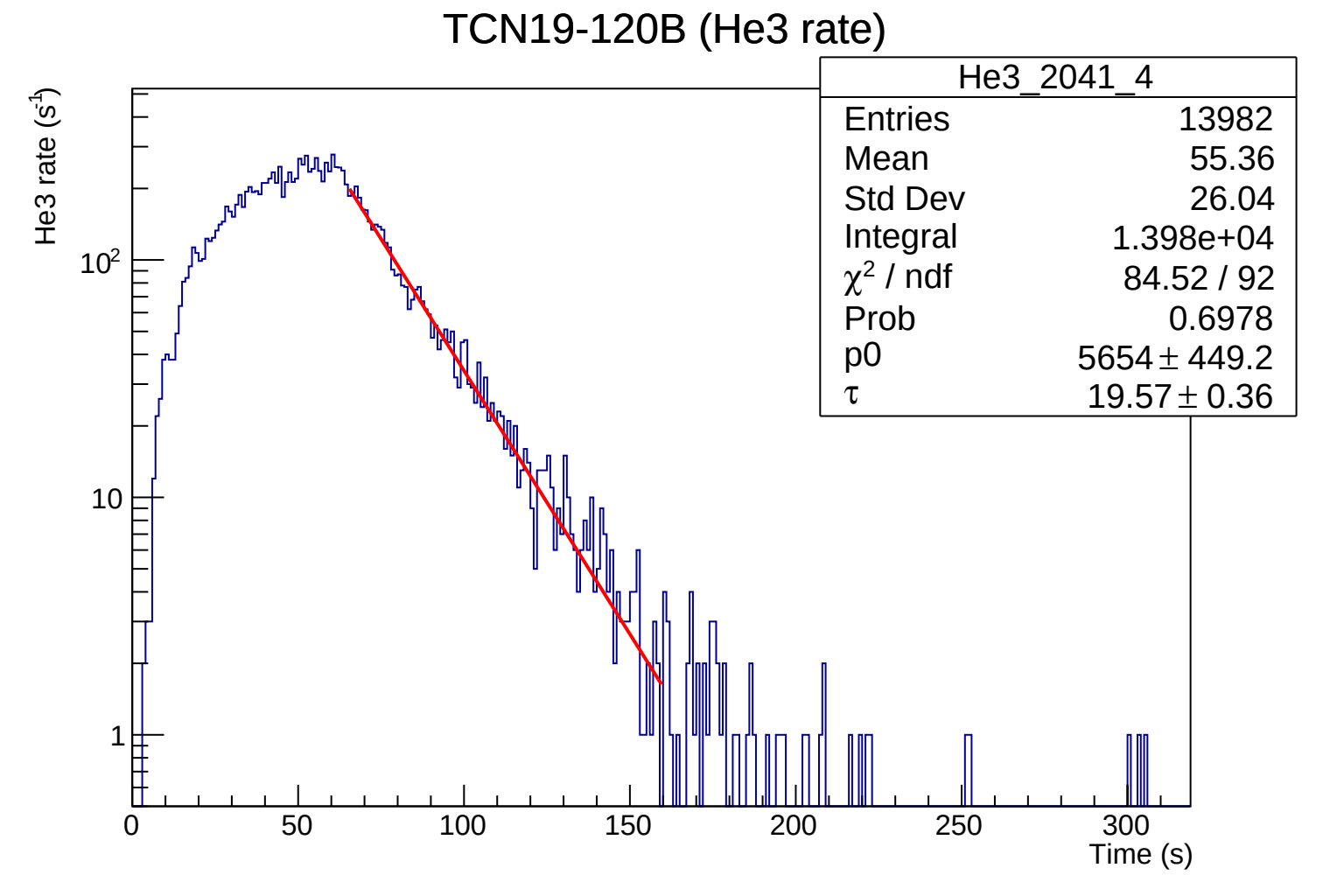

TCN19-120B (He3 rate)
He3_2043_7
Entries 13417
Mean 54.9
Std Dev 25.4
Integral 1.342e+04
χ² / ndf 94.37 / 91
Prob 0.3836
p0 6566 ± 551.9
τ 18.61 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

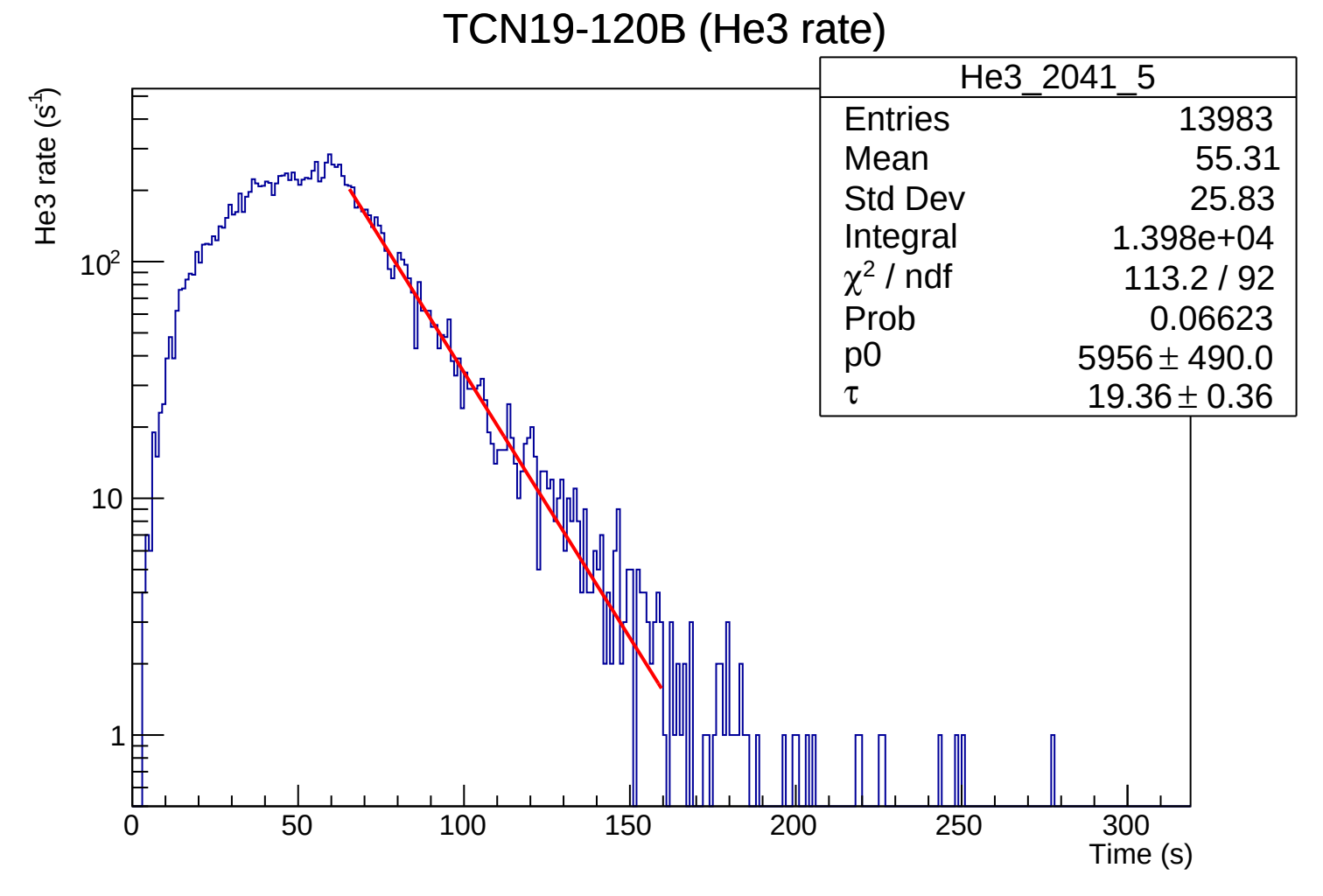

TCN19-120B (He3 rate)
He3_2043_8
Entries 13639
Mean 55.16
Std Dev 25.66
Integral 1.364e+04
χ² / ndf 78.63 / 93
Prob 0.8564
p0 5777 ± 467.7
τ 19.29 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

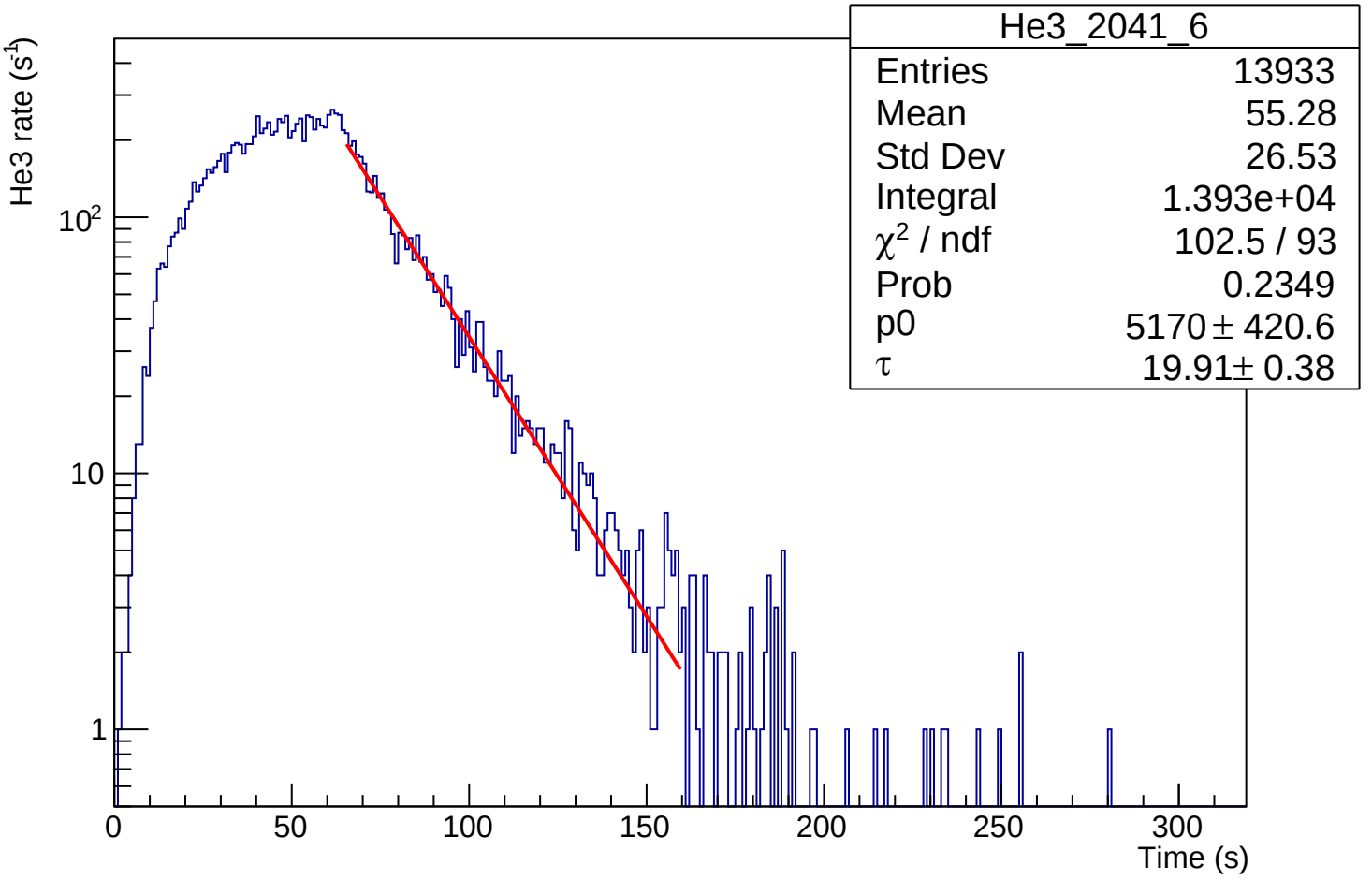

TCN19-120B (He3 rate)
He3_2041_1
Entries 13836
Mean 55.45
Std Dev 26.25
Integral 1.384e+04
χ² / ndf 126.4 / 93
Prob 0.0121
p0 7353 ± 588.1
τ 18.39 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

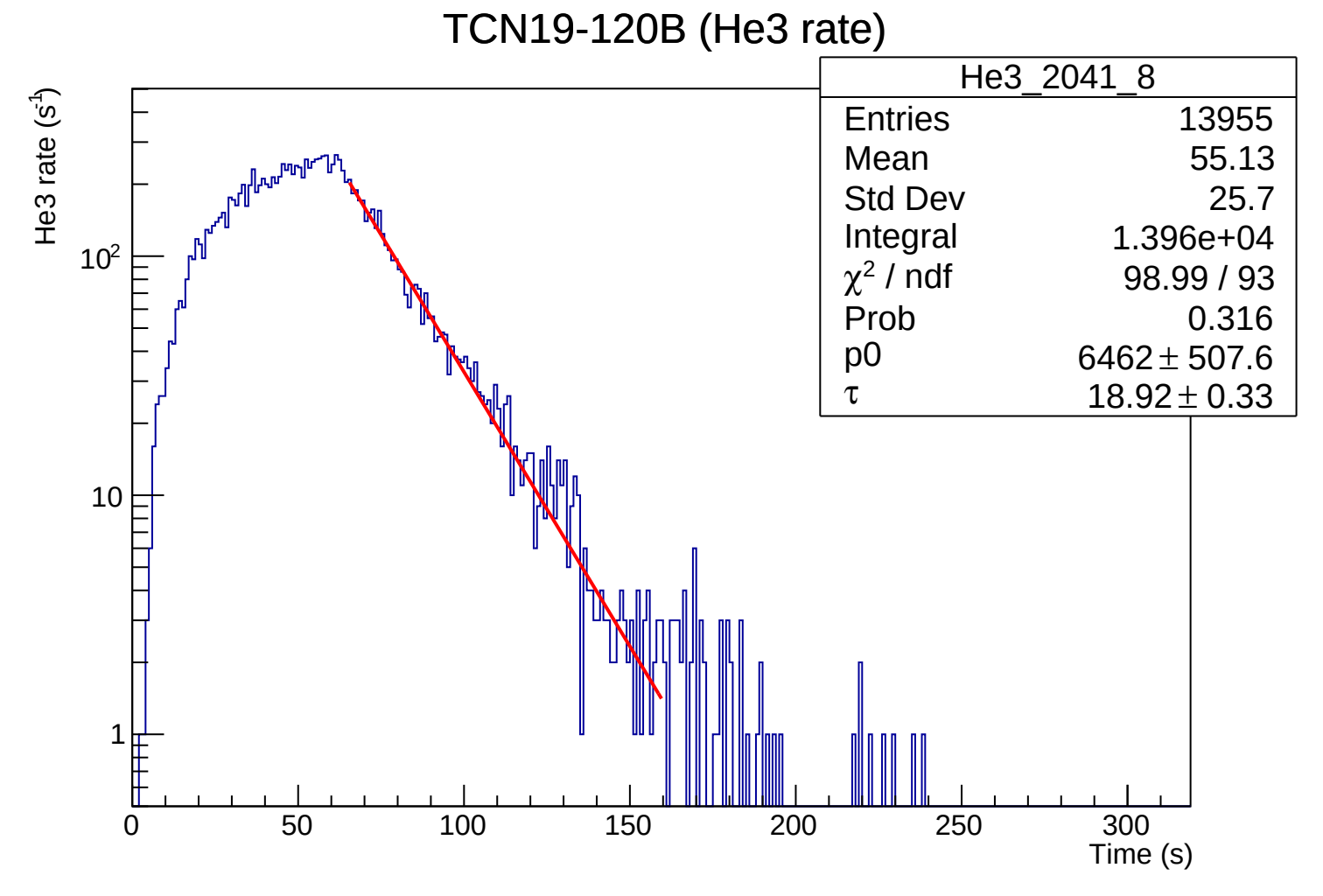

TCN19-120B (He3 rate)
He3_2041_2
Entries 13892
Mean 55.56
Std Dev 26.42
Integral 1.389e+04
χ² / ndf 94.41 / 92
Prob 0.4108
p0 6101 ± 502.7
τ 19.24 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

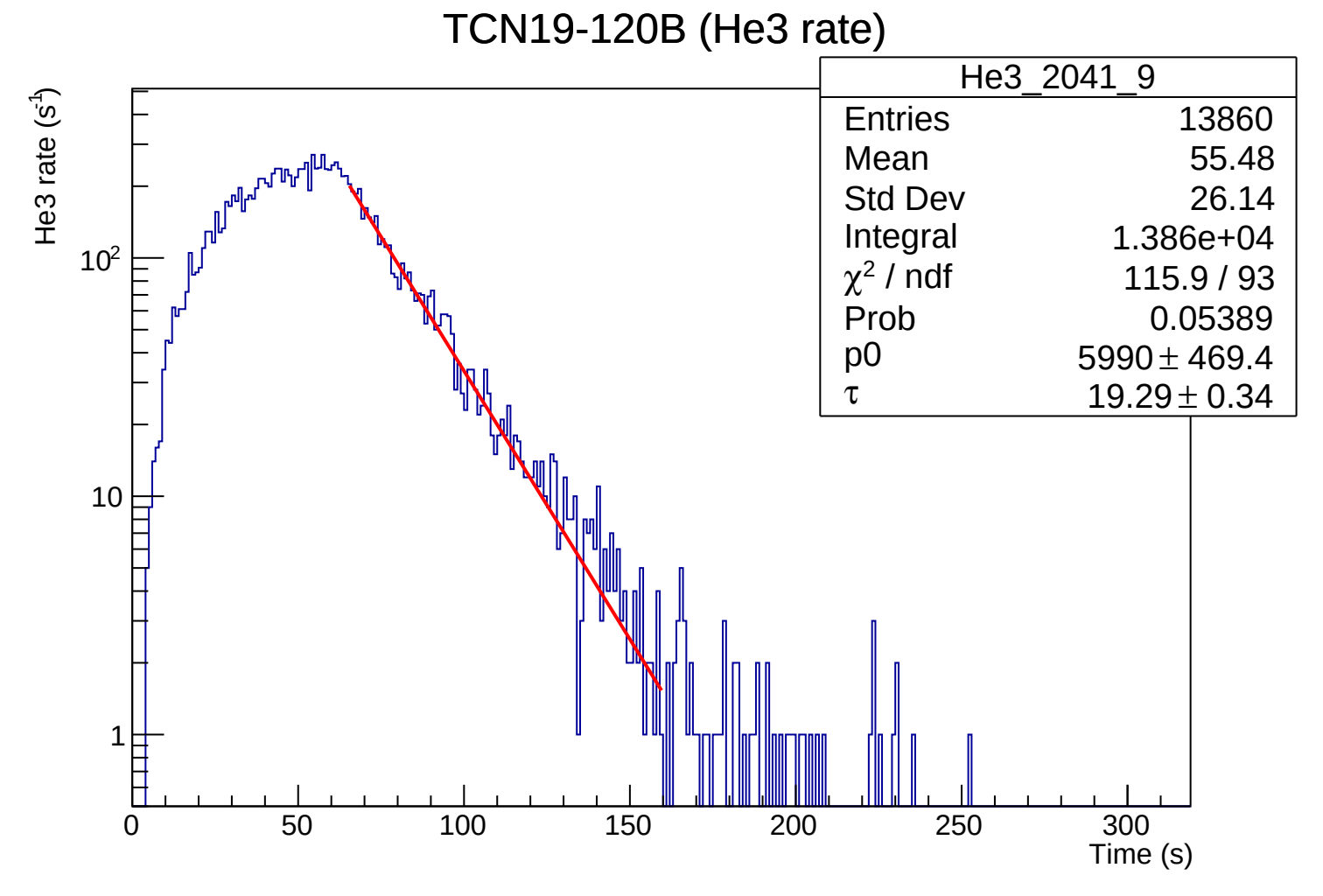

TCN19-120B (He3 rate)
He3_2041_3
Entries 13950
Mean 55.37
Std Dev 25.86
Integral 1.395e+04
χ² / ndf 115.5 / 93
Prob 0.0573
p0 6077 ± 482.0
τ 19.2 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

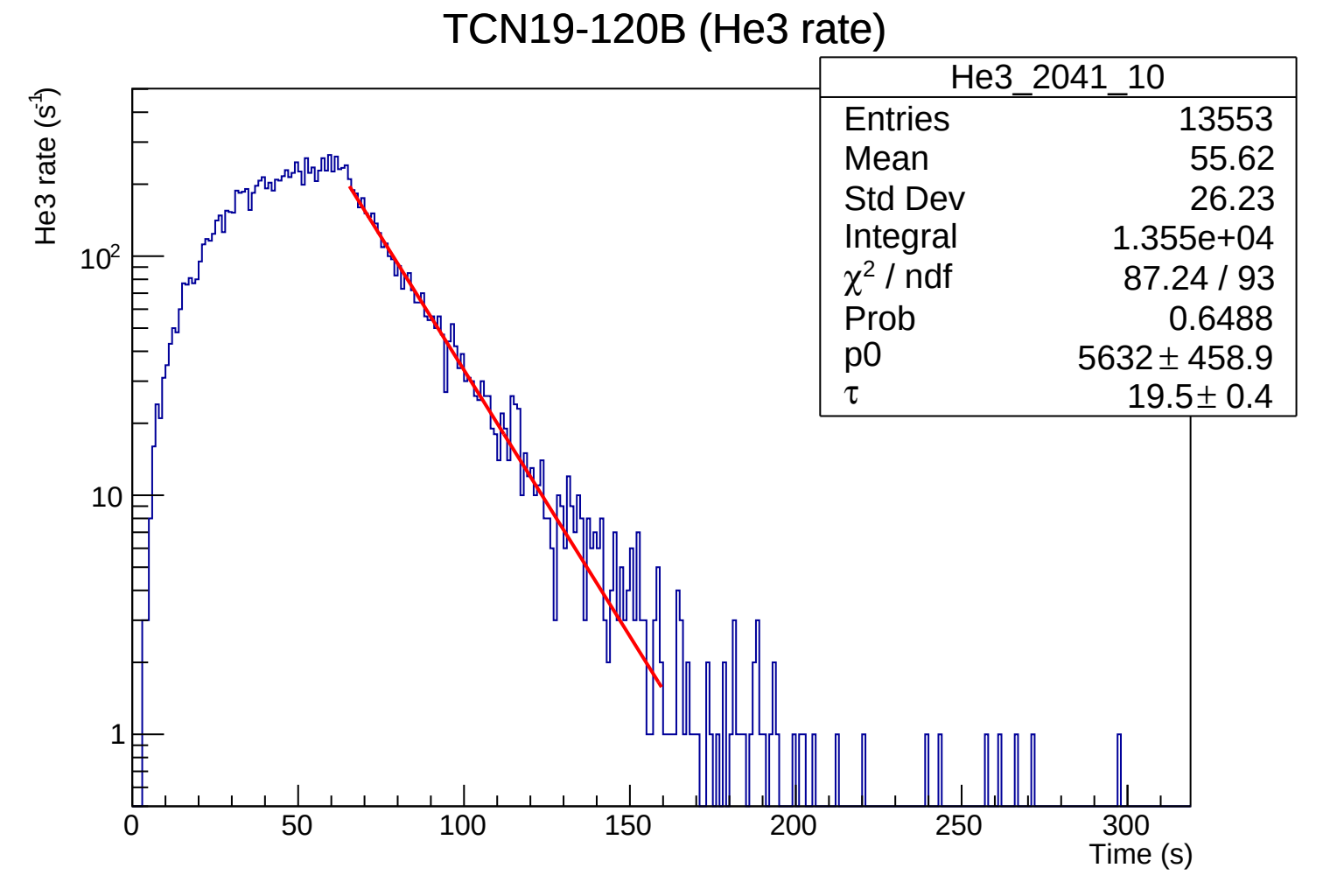

TCN19-120B (He3 rate)
He3_2041_4
Entries 13982
Mean 55.36
Std Dev 26.04
Integral 1.398e+04
χ² / ndf 84.52 / 92
Prob 0.6978
p0 5654 ± 449.2
τ 19.57 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

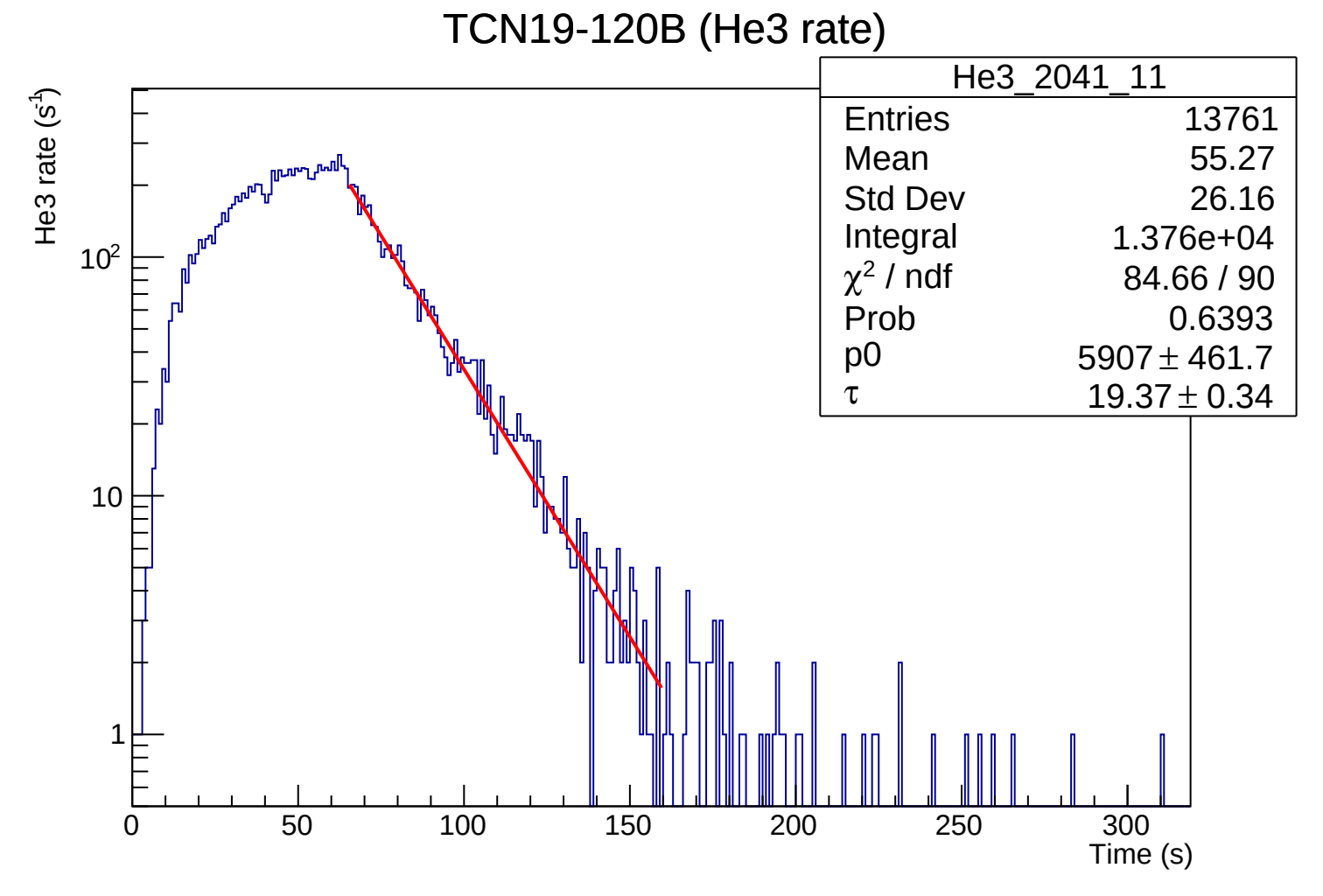

TCN19-120B (He3 rate)
He3_2041_5
Entries 13983
Mean 55.31
Std Dev 25.83
Integral 1.398e+04
χ² / ndf 113.2 / 92
Prob 0.06623
p0 5956 ± 490.0
τ 19.36 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

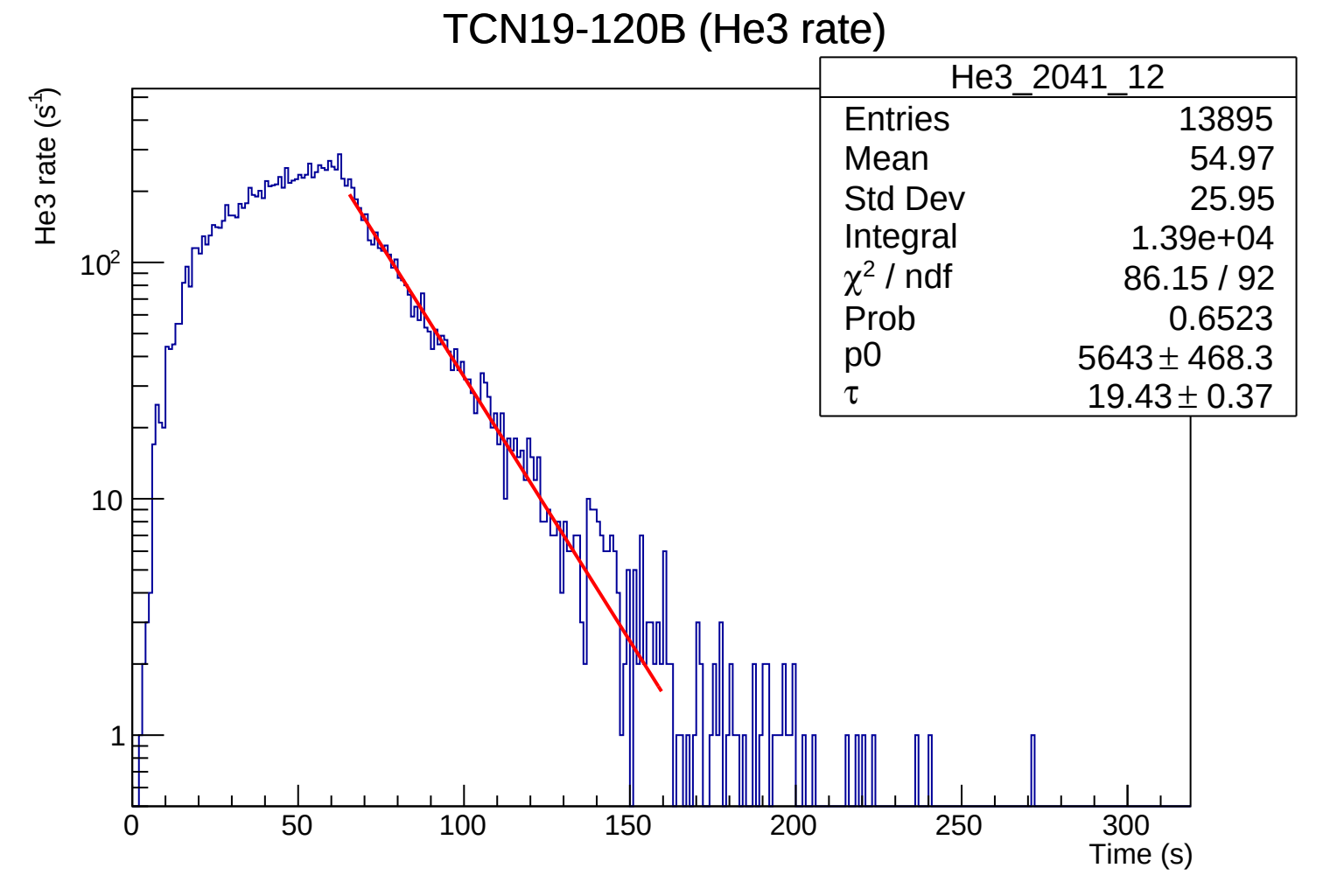

TCN19-120B (He3 rate)
He3_2041_6
Entries 13933
Mean 55.28
Std Dev 26.53
Integral 1.393e+04
χ² / ndf 102.5 / 93
Prob 0.2349
p0 5170 ± 420.6
τ 19.91 ± 0.38
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

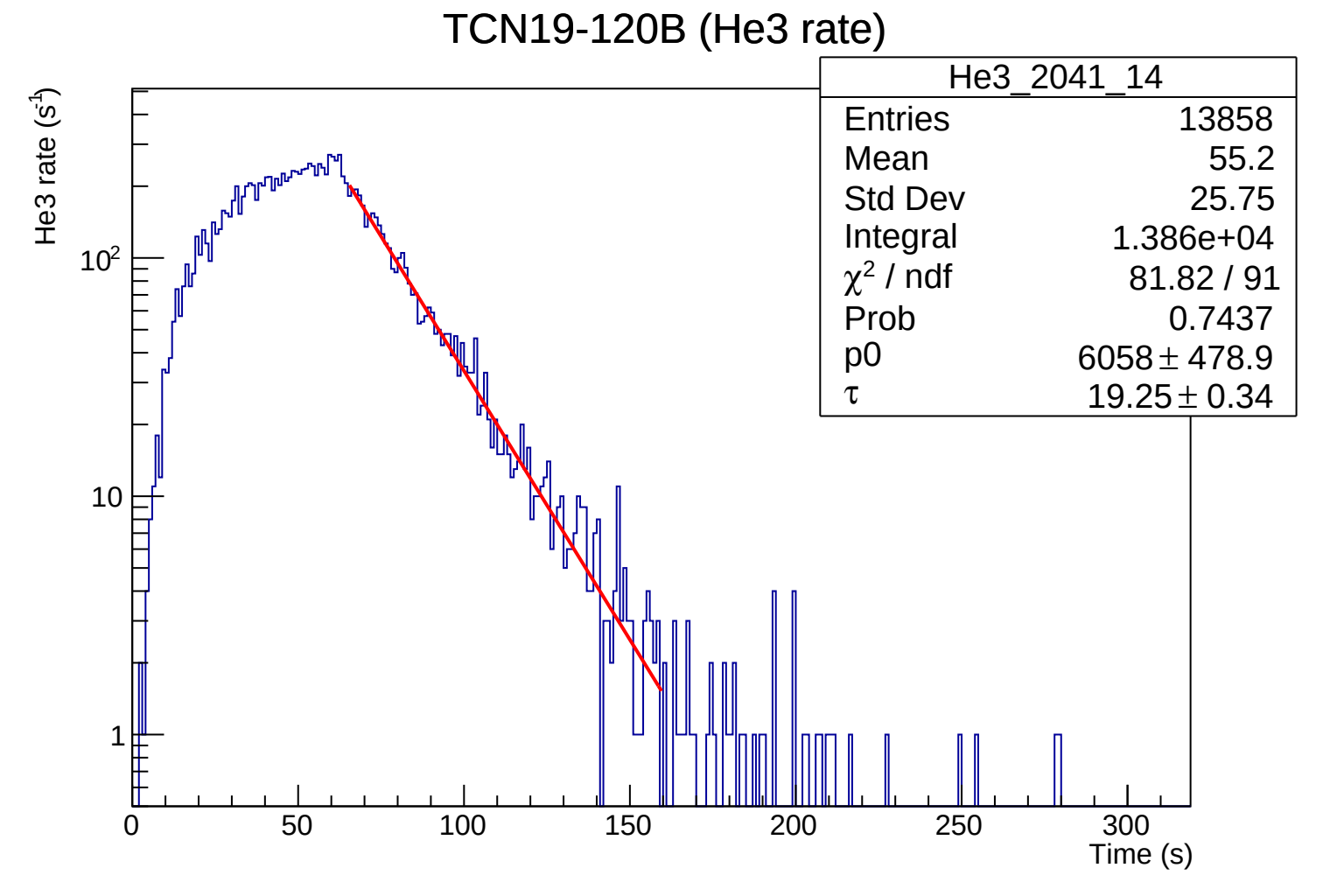

TCN19-120B (He3 rate)
He3_2041_8
Entries 13955
Mean 55.13
Std Dev 25.7
Integral 1.396e+04
χ² / ndf 98.99 / 93
Prob 0.316
p0 6462 ± 507.6
τ 18.92 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

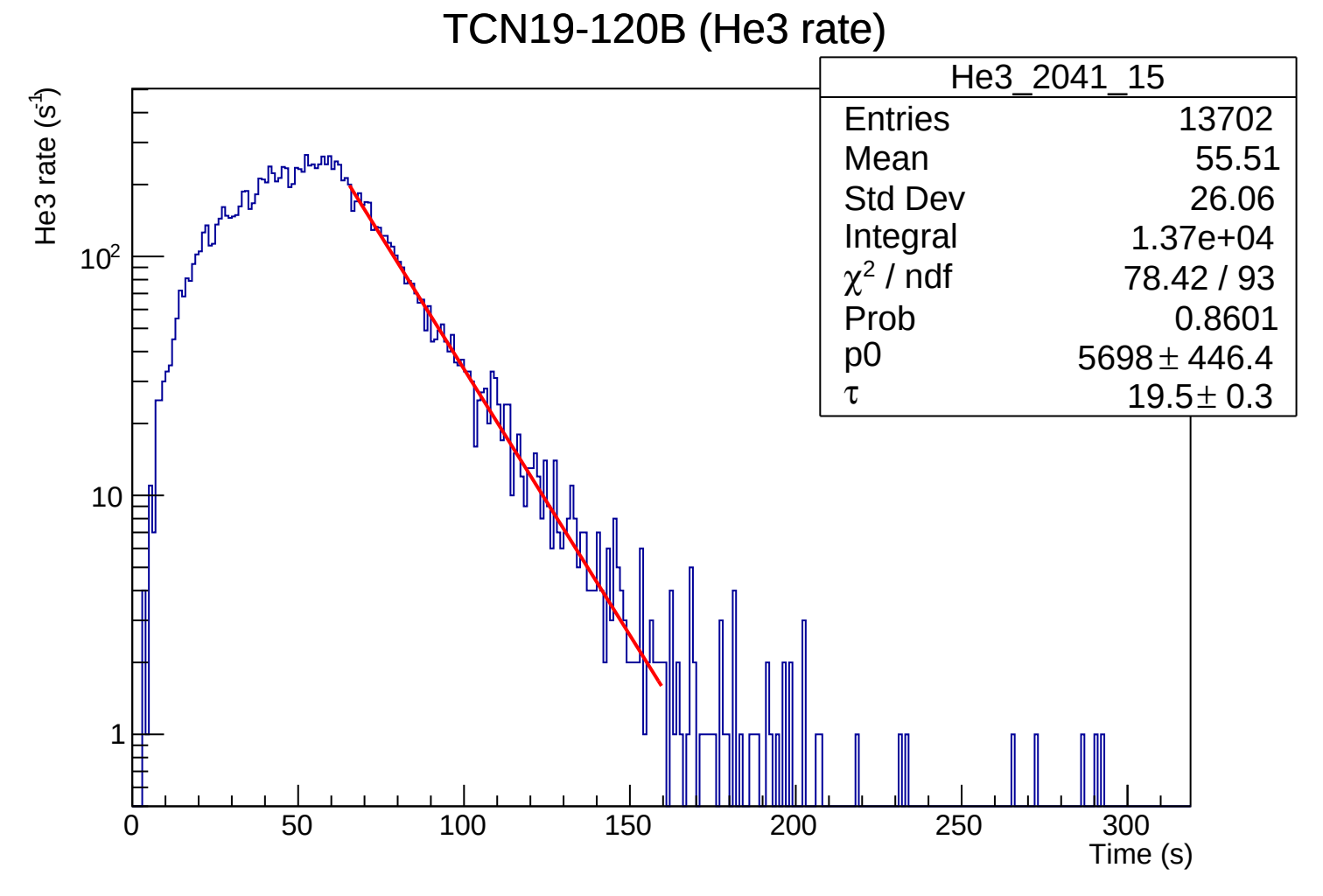

TCN19-120B (He3 rate)
He3_2041_9
Entries 13860
Mean 55.48
Std Dev 26.14
Integral 1.386e+04
χ² / ndf 115.9 / 93
Prob 0.05389
p0 5990 ± 469.4
τ 19.29 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

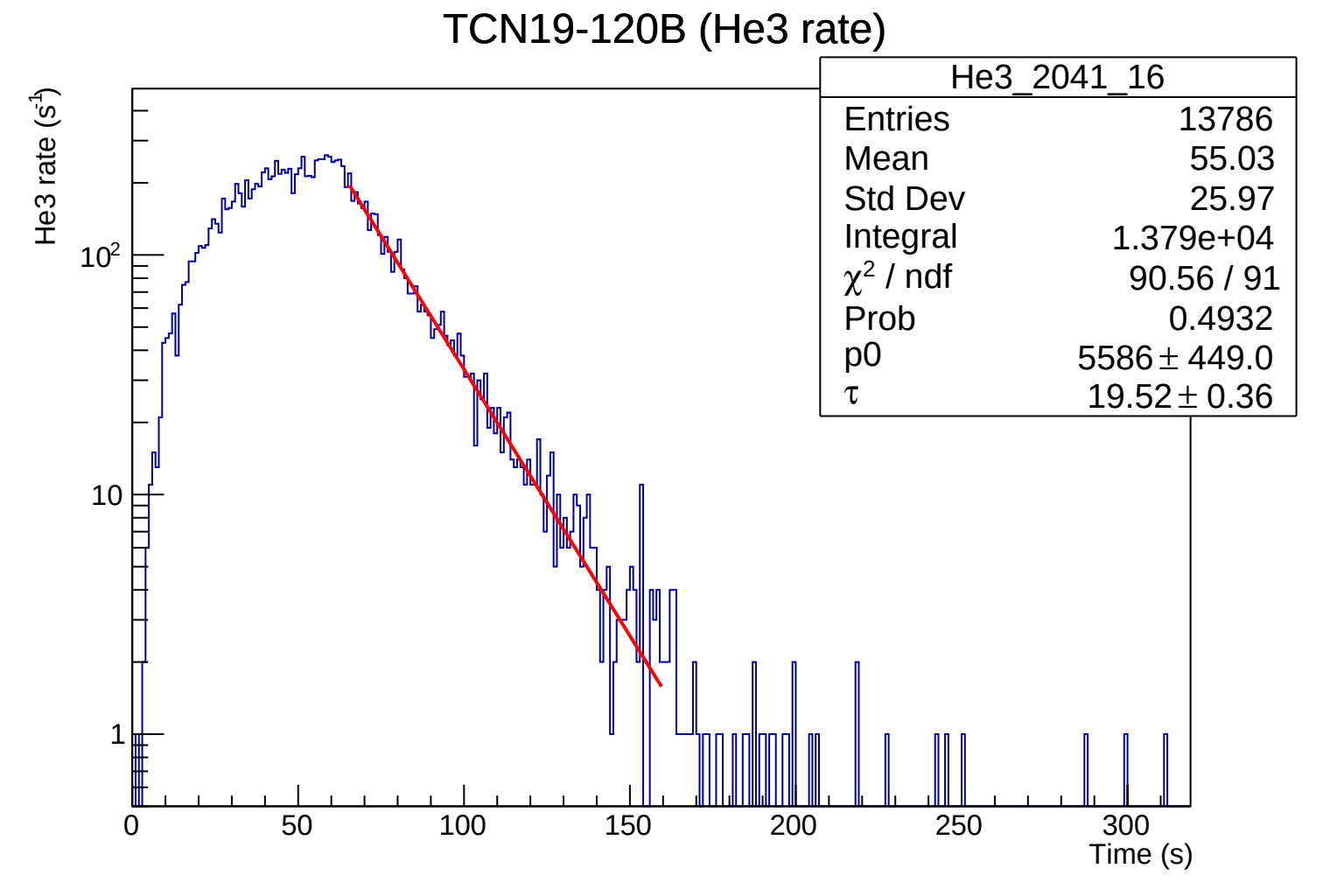

TCN19-120B (He3 rate)
He3_2041_10
Entries 13553
Mean 55.62
Std Dev 26.23
Integral 1.355e+04
χ² / ndf 87.24 / 93
Prob 0.6488
p0 5632 ± 458.9
τ 19.5 ± 0.4
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

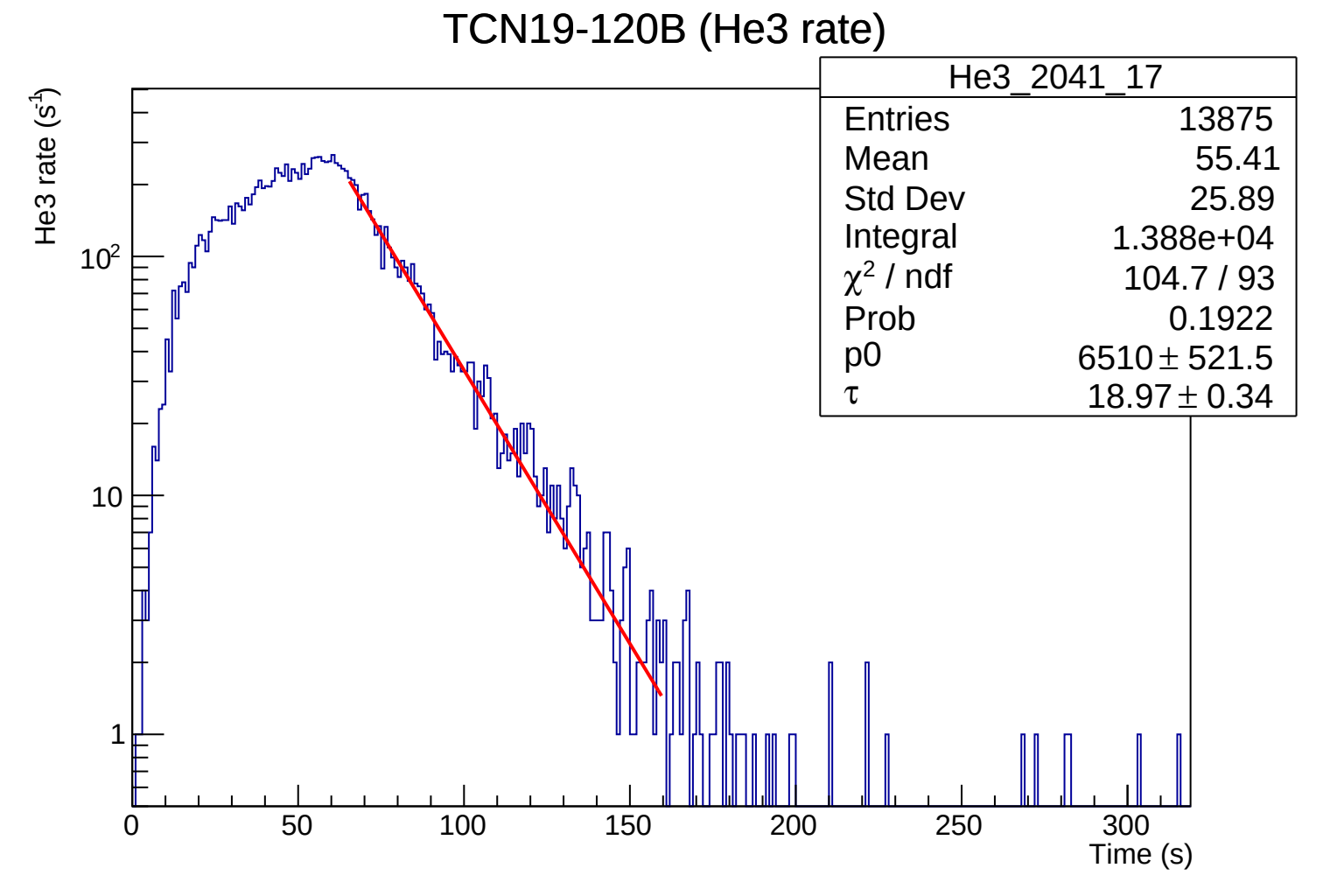

TCN19-120B (He3 rate)
He3_2041_11
Entries 13761
Mean 55.27
Std Dev 26.16
Integral 1.376e+04
χ² / ndf 84.66 / 90
Prob 0.6393
p0 5907 ± 461.7
τ 19.37 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

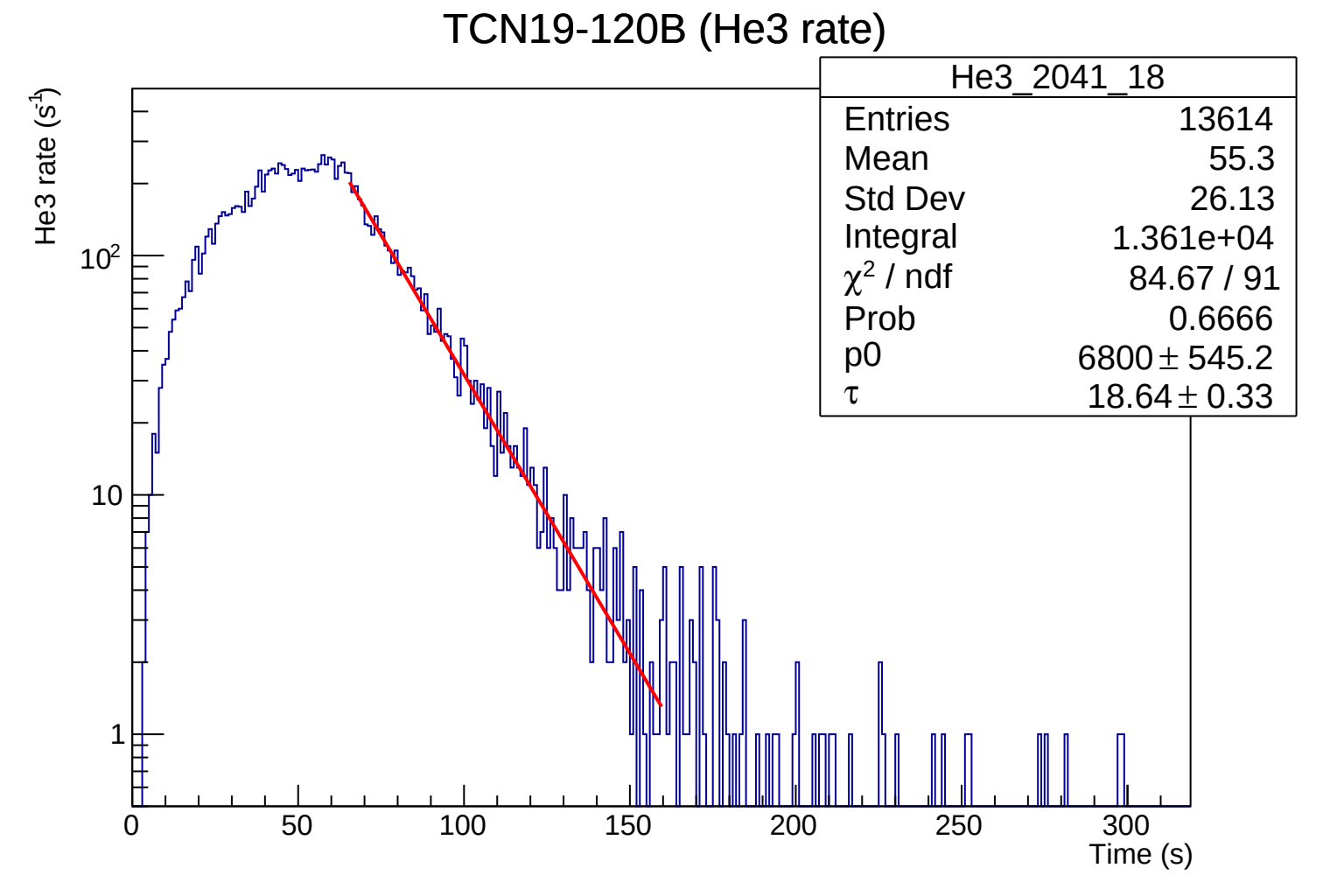

TCN19-120B (He3 rate)
He3_2041_12
Entries 13895
Mean 54.97
Std Dev 25.95
Integral 1.39e+04
χ² / ndf 86.15 / 92
Prob 0.6523
p0 5643 ± 468.3
τ 19.43 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

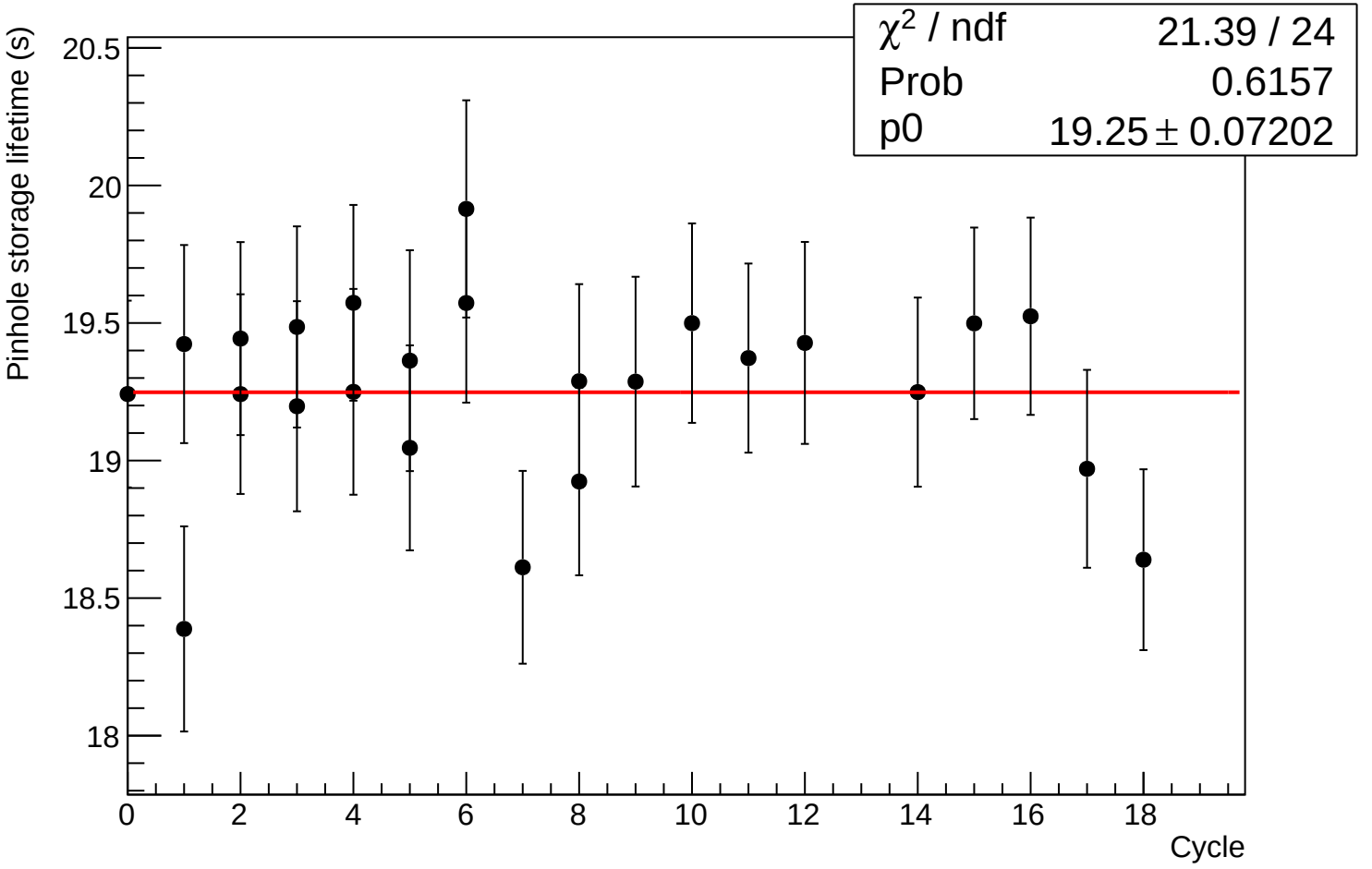

TCN19-120B (He3 rate)
He3_2041_14
Entries 13858
Mean 55.2
Std Dev 25.75
Integral 1.386e+04
χ² / ndf 81.82 / 91
Prob 0.7437
p0 6058 ± 478.9
τ 19.25 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

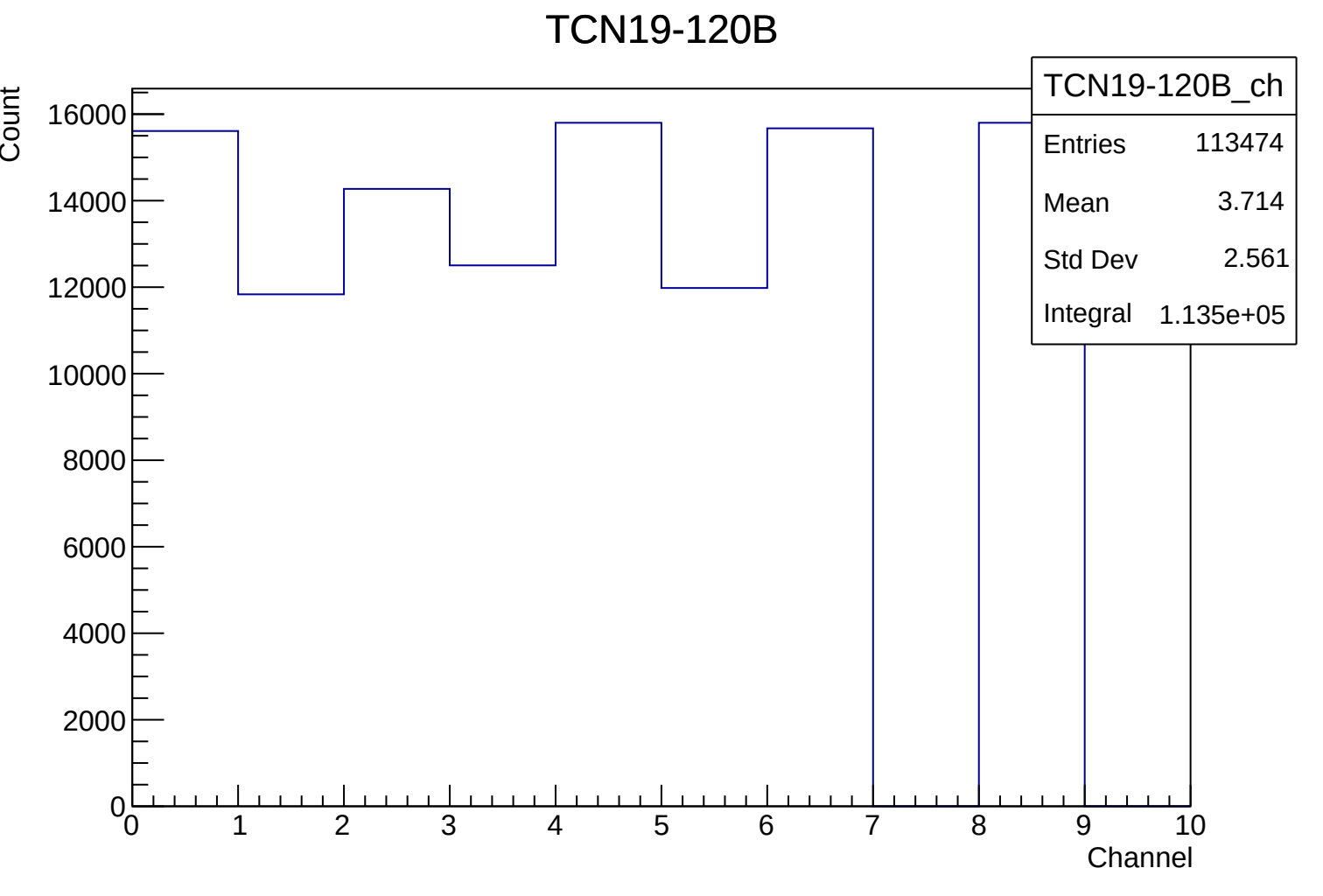

TCN19-120B (He3 rate)
He3_2041_15
Entries 13702
Mean 55.51
Std Dev 26.06
Integral 1.37e+04
χ² / ndf 78.42 / 93
Prob 0.8601
p0 5698 ± 446.4
τ 19.5 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-120B (He3 rate)
He3_2041_16
Entries 13786
Mean 55.03
Std Dev 25.97
Integral 1.379e+04
χ² / ndf 90.56 / 91
Prob 0.4932
p0 5586 ± 449.0
τ 19.52 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-120B (He3 rate)
He3_2041_17
Entries 13875
Mean 55.41
Std Dev 25.89
Integral 1.388e+04
χ² / ndf 104.7 / 93
Prob 0.1922
p0 6510 ± 521.5
τ 18.97 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-120B (He3 rate)
He3_2041_18
Entries 13614
Mean 55.3
Std Dev 26.13
Integral 1.361e+04
χ² / ndf 84.67 / 91
Prob 0.6666
p0 6800 ± 545.2
τ 18.64 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


χ^2 / ndf 21.39 / 24
Prob 0.6157
p0 19.25 ± 0.07202
Pinhole storage lifetime (s)
20.5
20
19.5
19
18.5
18
0
2
4
6
8
10
12
14
16
18
Cycle


TCN19-120B
TCN19-120B_ch
Entries 113474
Mean 3.714
Std Dev 2.561
Integral 1.135e+05
Count
16000
14000
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10
Channel