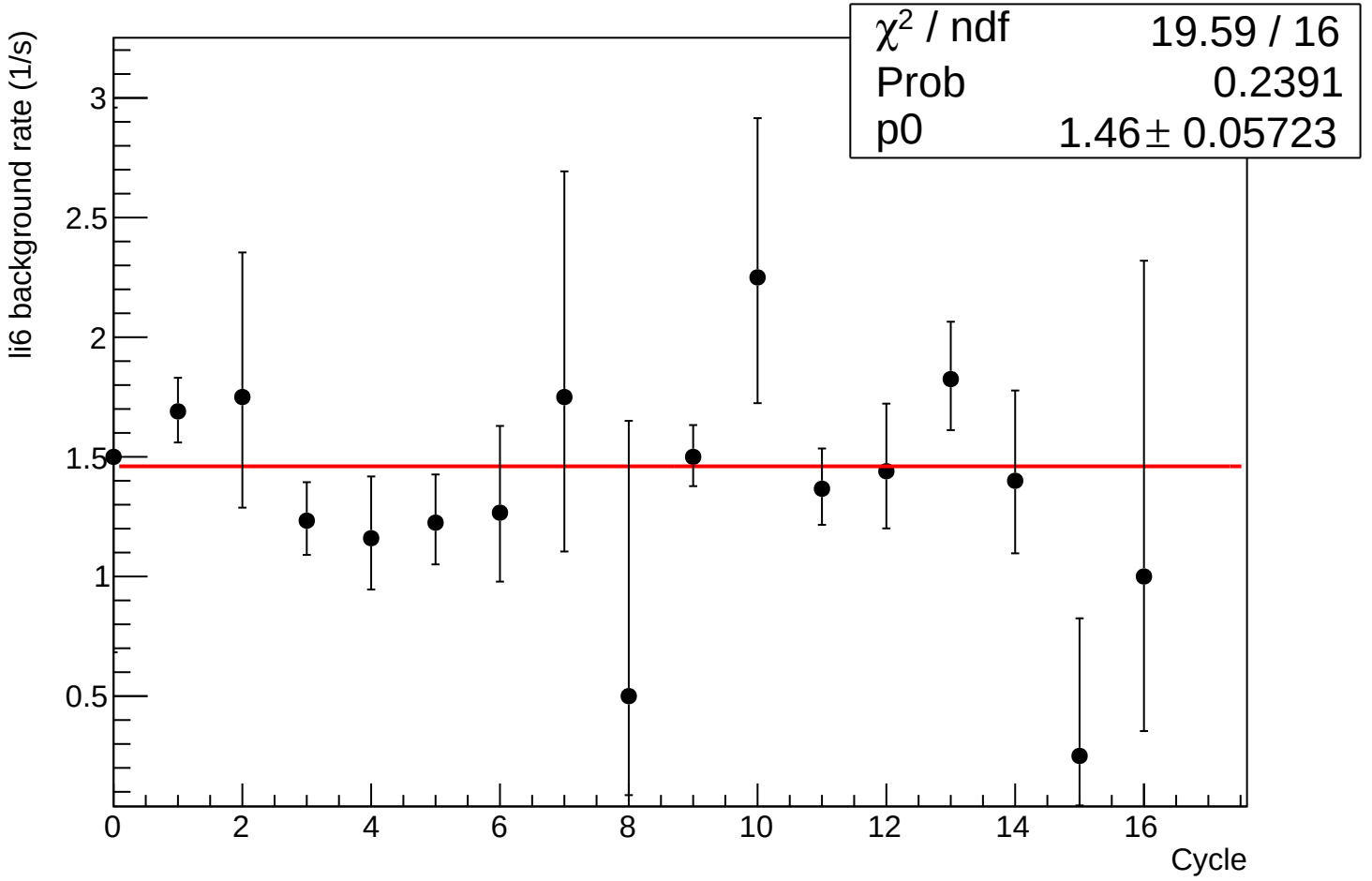
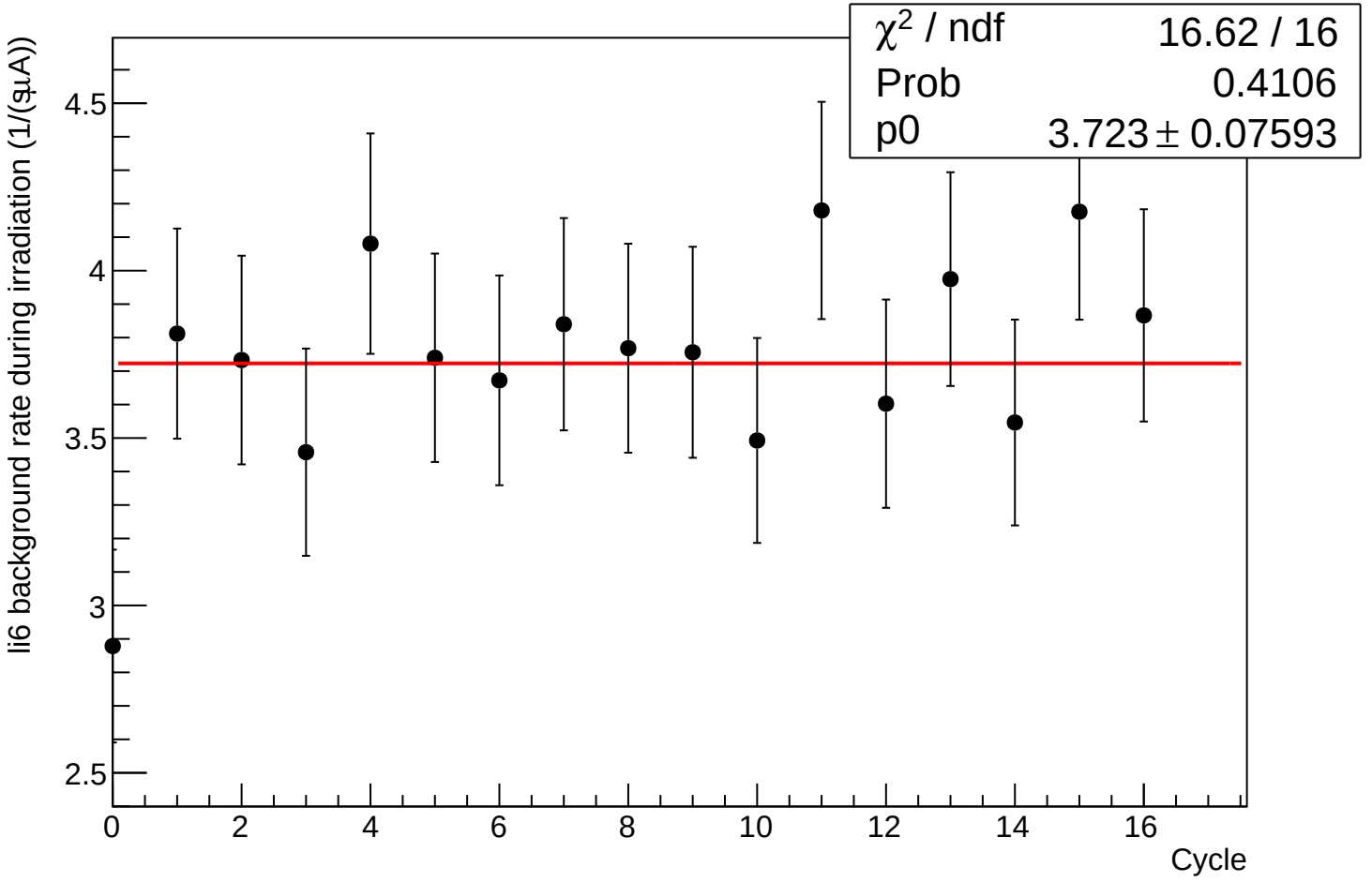
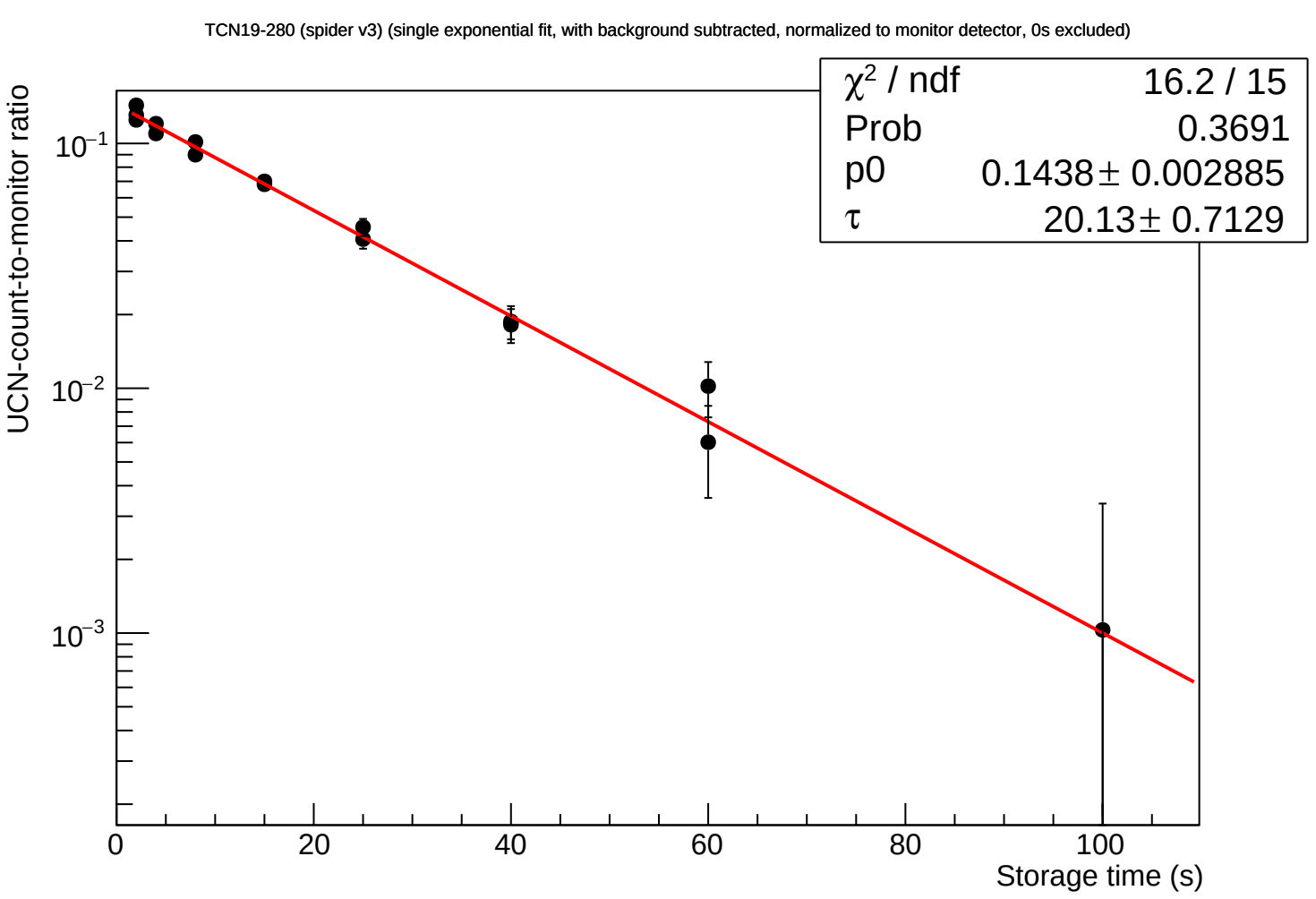
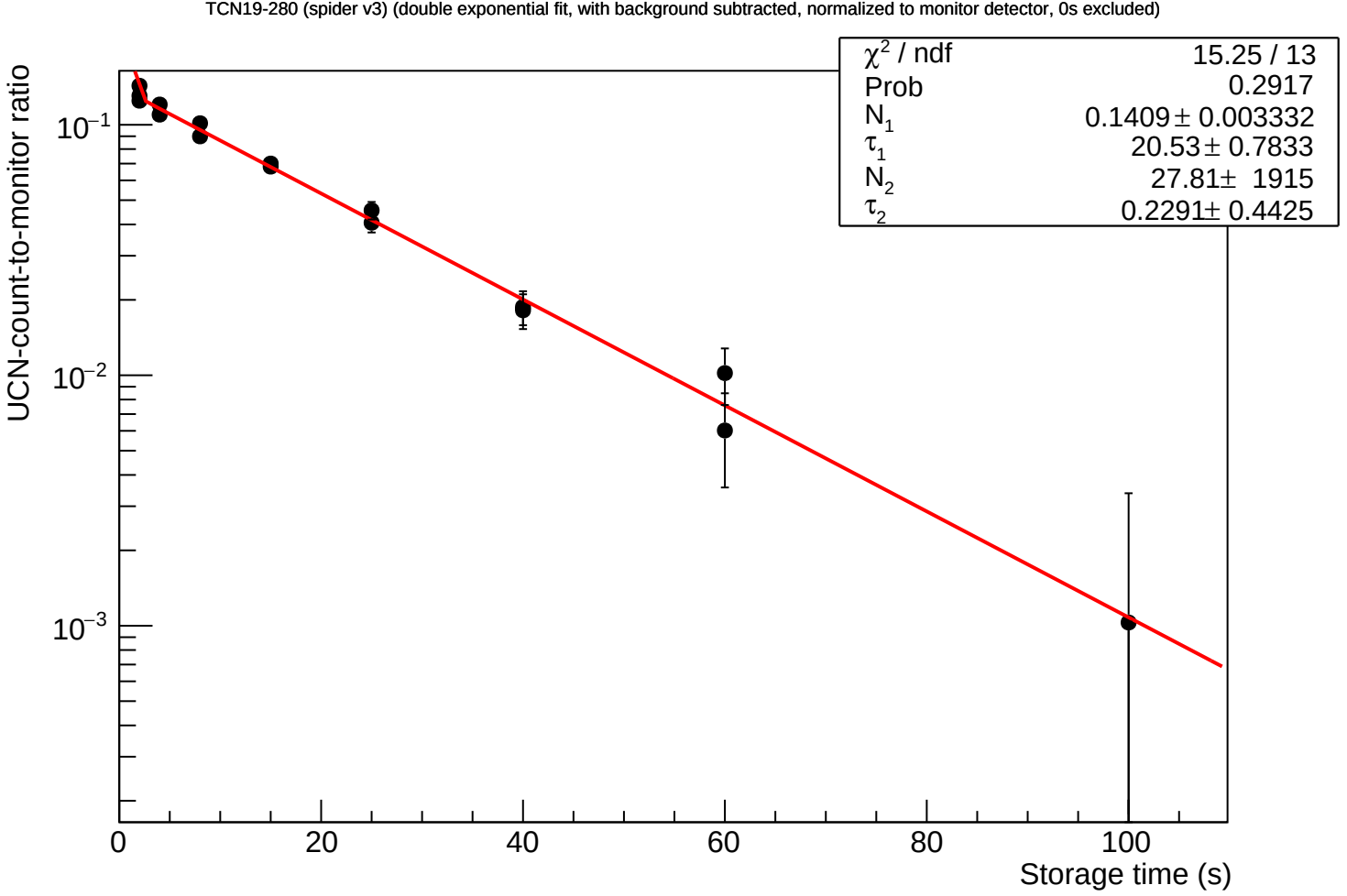
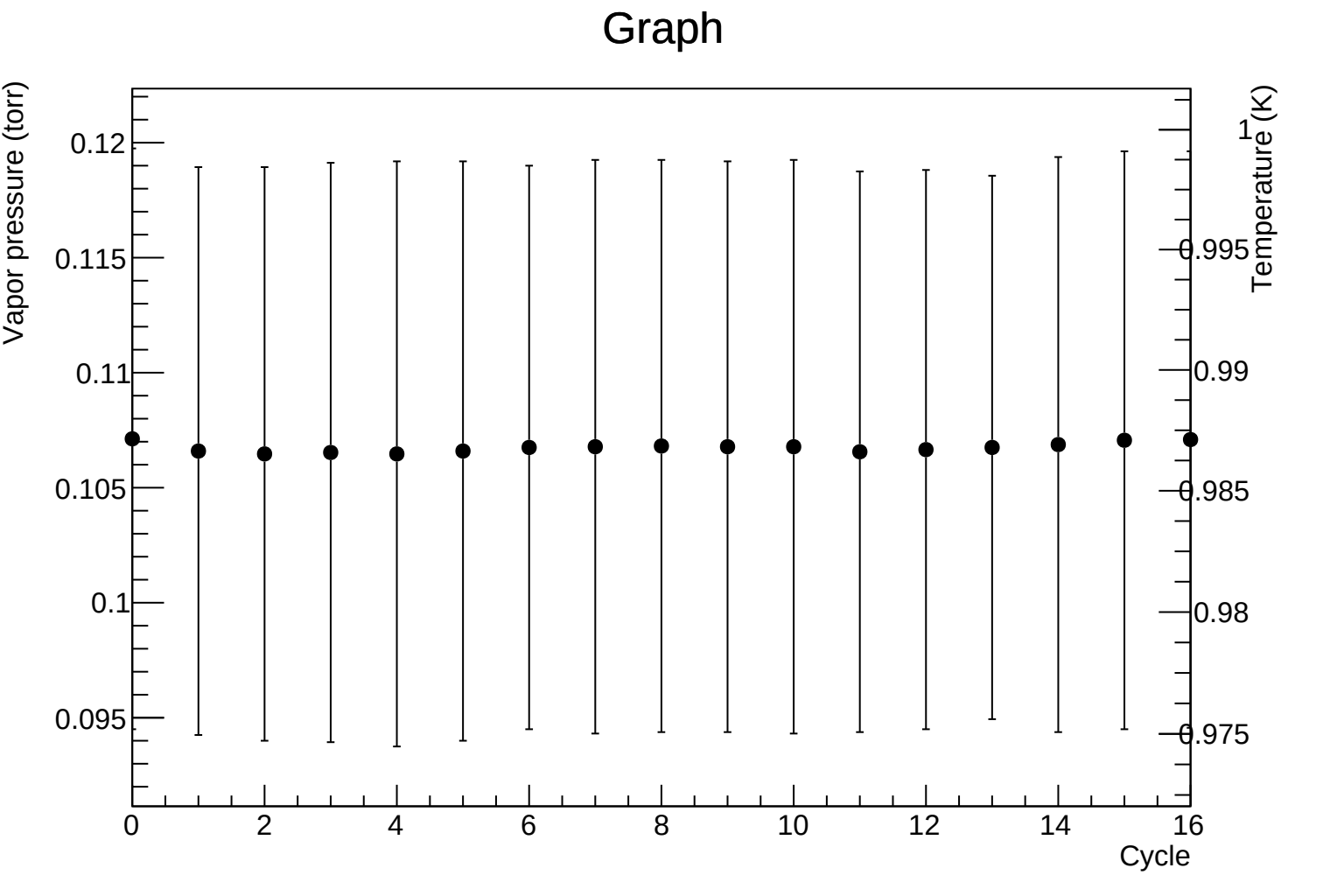
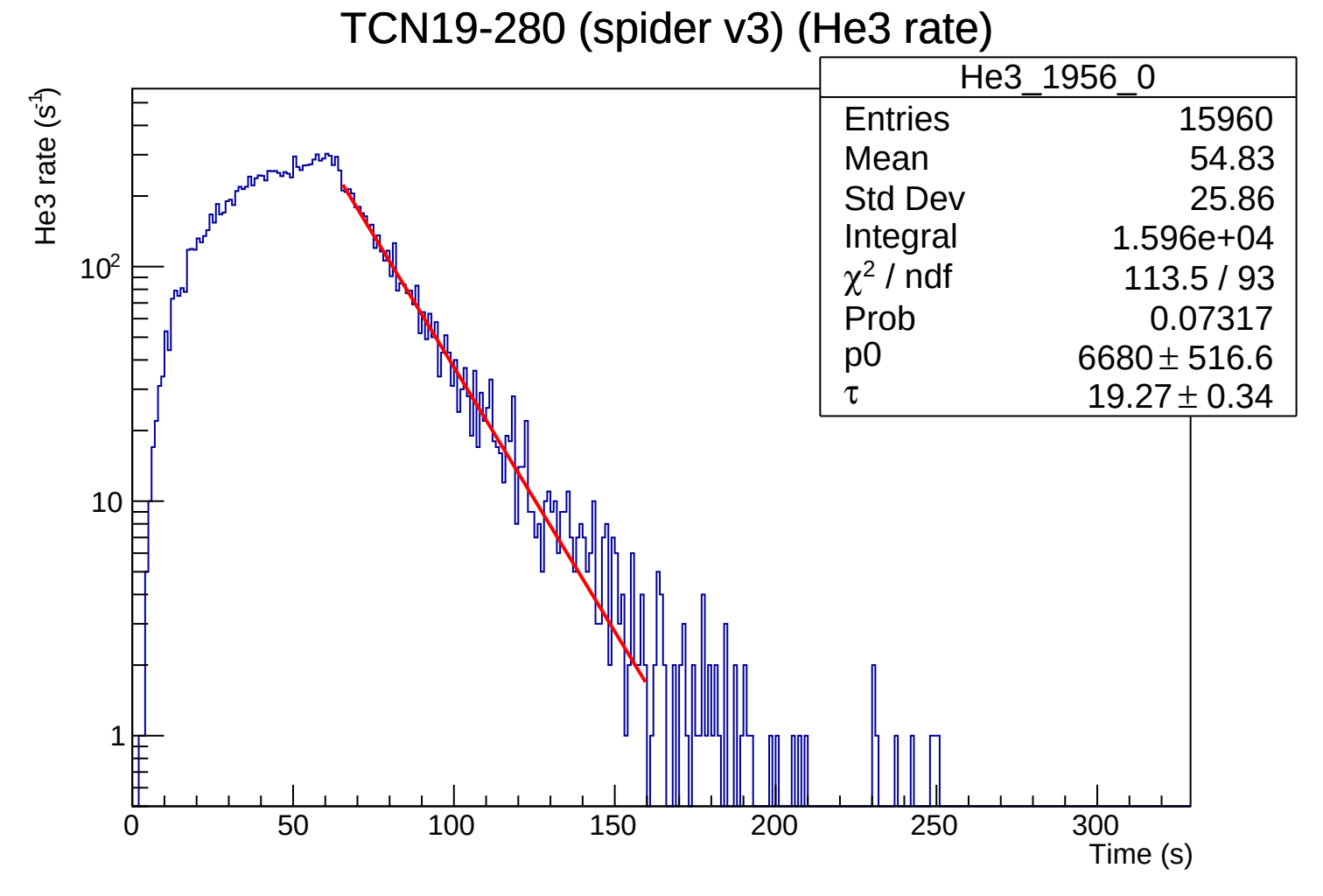

χ^2 / ndf 19.59 / 16
Prob 0.2391
p0 1.46 ± 0.05723
li6 background rate (1/s)
Cycle
0
2
4
6
8
10
12
14
16
0.5
1
1.5
2
2.5
3

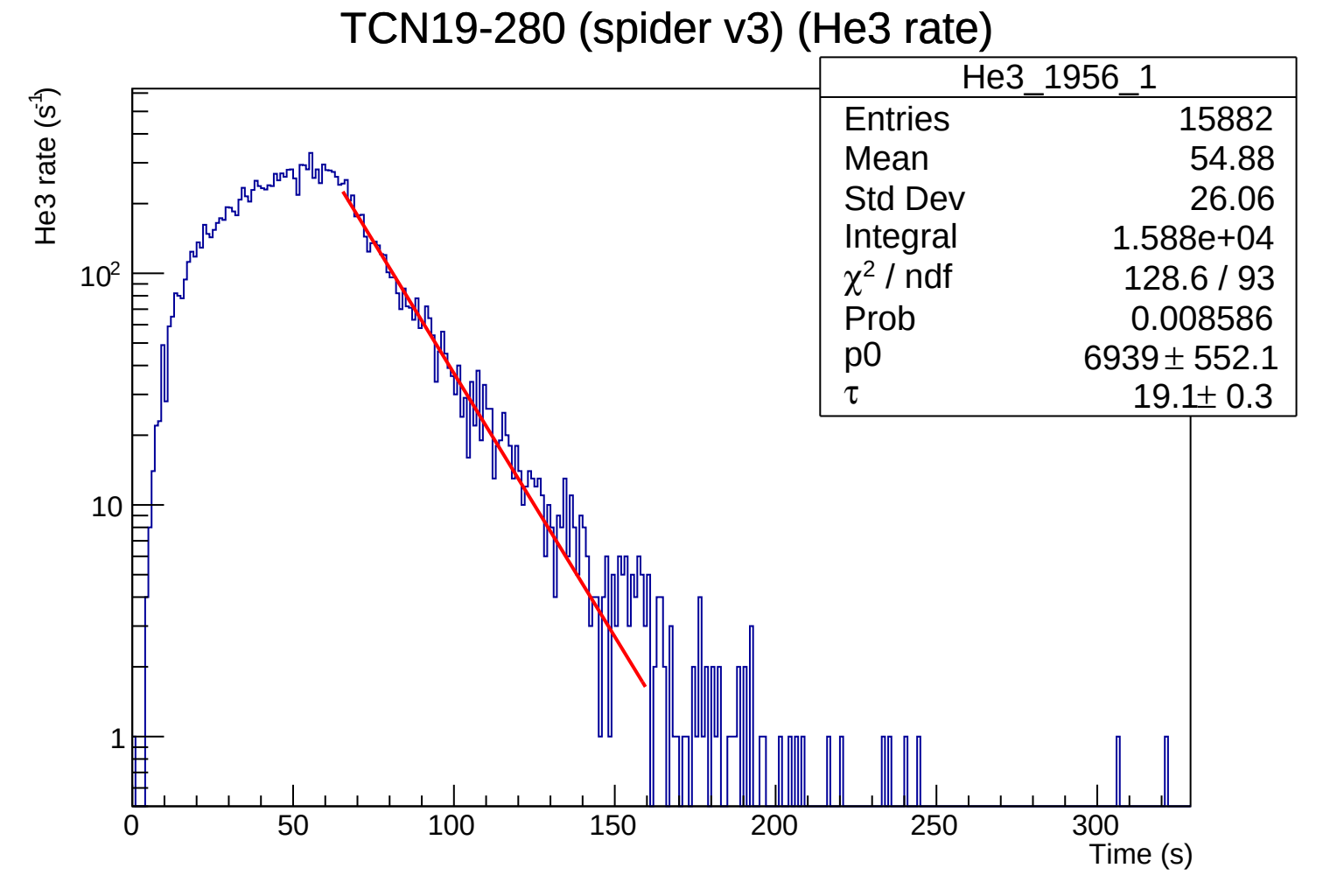

χ² / ndf 16.62 / 16
Prob 0.4106
p0 3.723 ± 0.07593
li6 background rate during irradiation (1/(μA))
Cycle
2.5
3
3.5
4
4.5
0
2
4
6
8
10
12
14
16

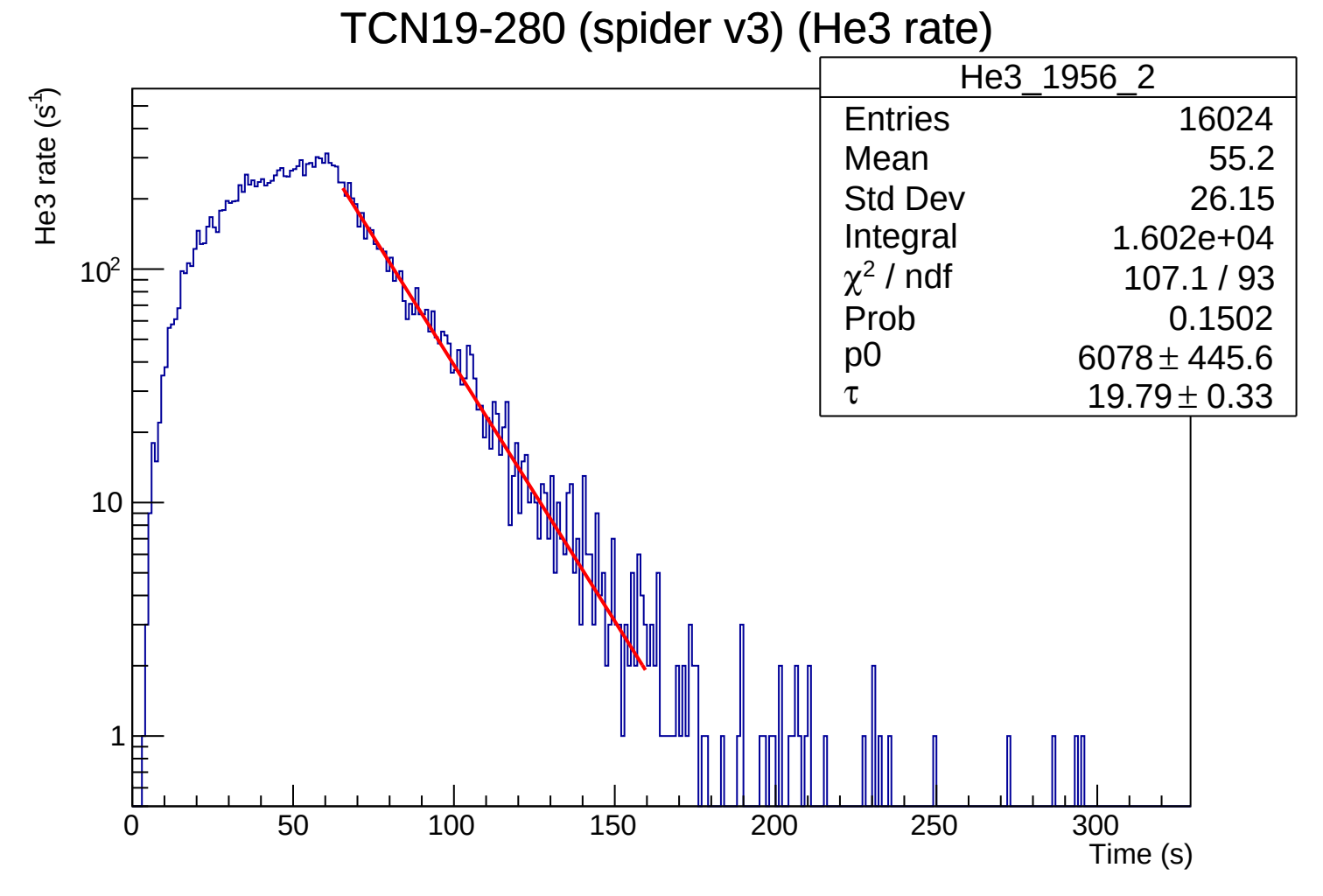

TCN19-280 (spider v3) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 16.2 / 15
Prob 0.3691
p0 0.1438 ± 0.002885
τ 20.13 ± 0.7129
UCN-count-to-monitor ratio
10⁻¹
10⁻²
10⁻³
0
20
40
60
80
100
Storage time (s)

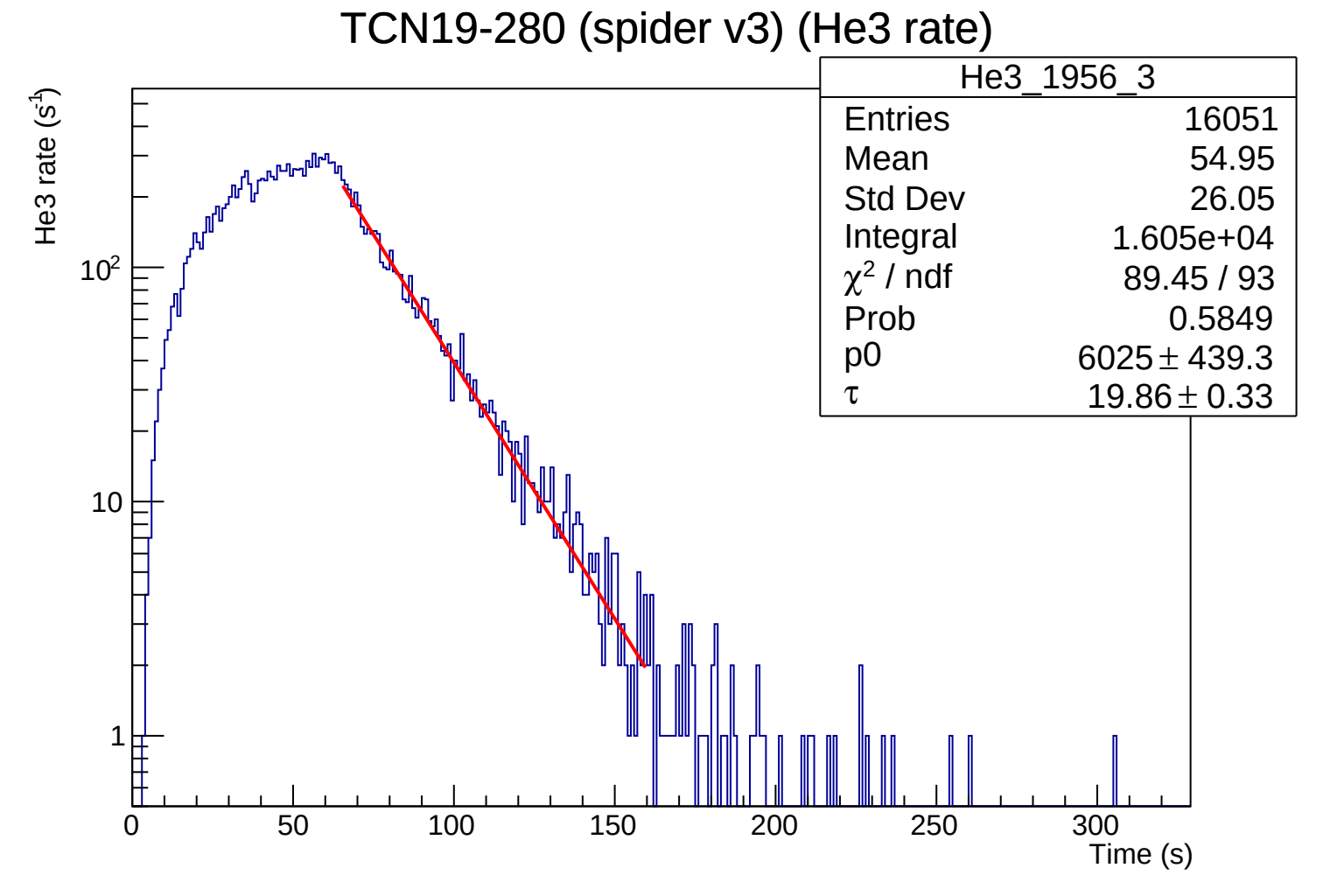

TCN19-280 (spider v3) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 15.25 / 13
Prob 0.2917
N1 0.1409 ± 0.003332
τ1 20.53 ± 0.7833
N2 27.81 ± 1915
τ2 0.2291 ± 0.4425
UCN-count-to-monitor ratio
10⁻¹
10⁻²
10⁻³
0
20
40
60
80
100
Storage time (s)

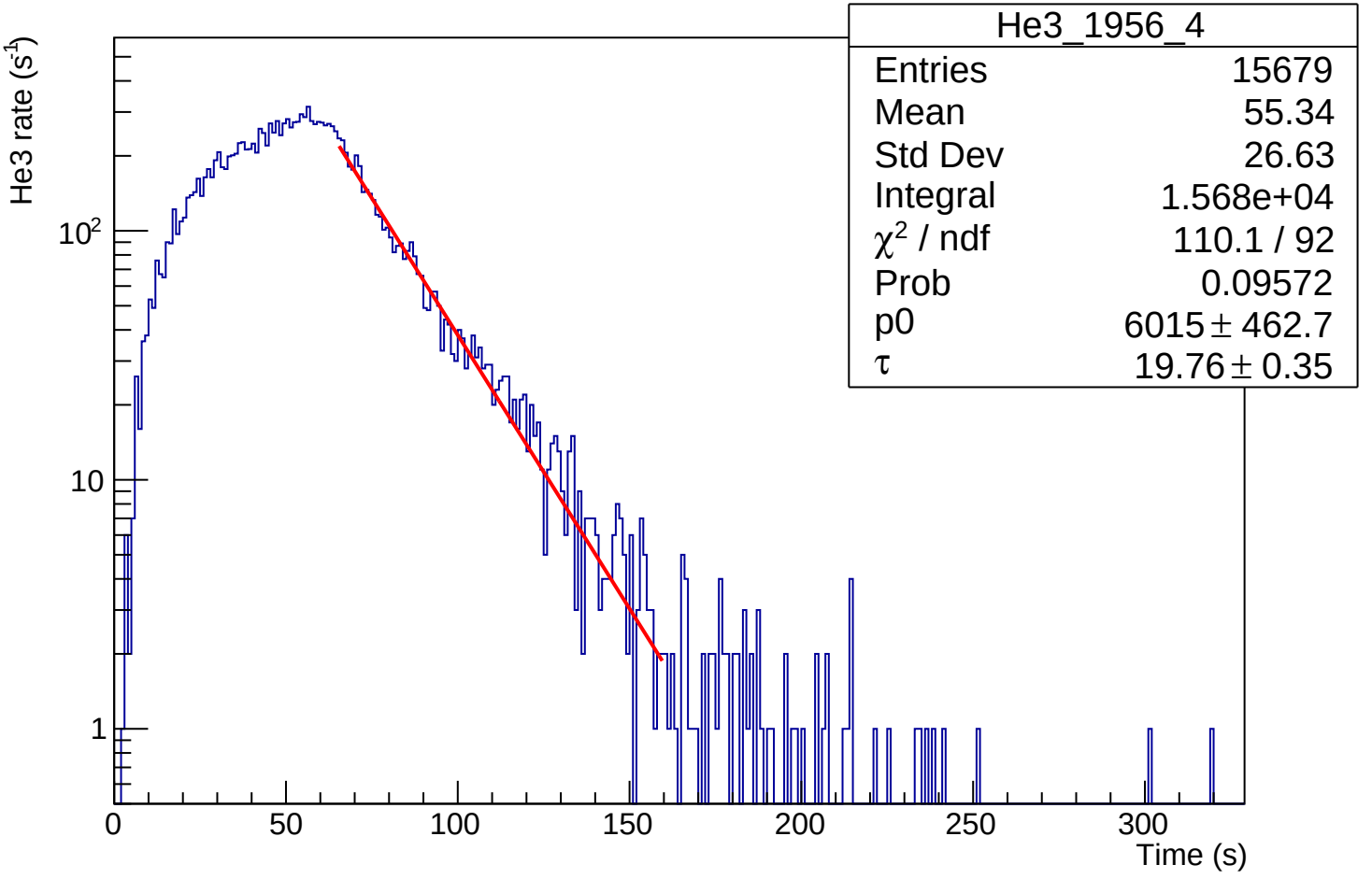

Graph
Vapor pressure (torr)
0.12
0.115
0.11
0.105
0.1
0.095
Temperature (K)
1
0.995
0.99
0.985
0.98
0.975
0
2
4
6
8
10
12
14
16
Cycle

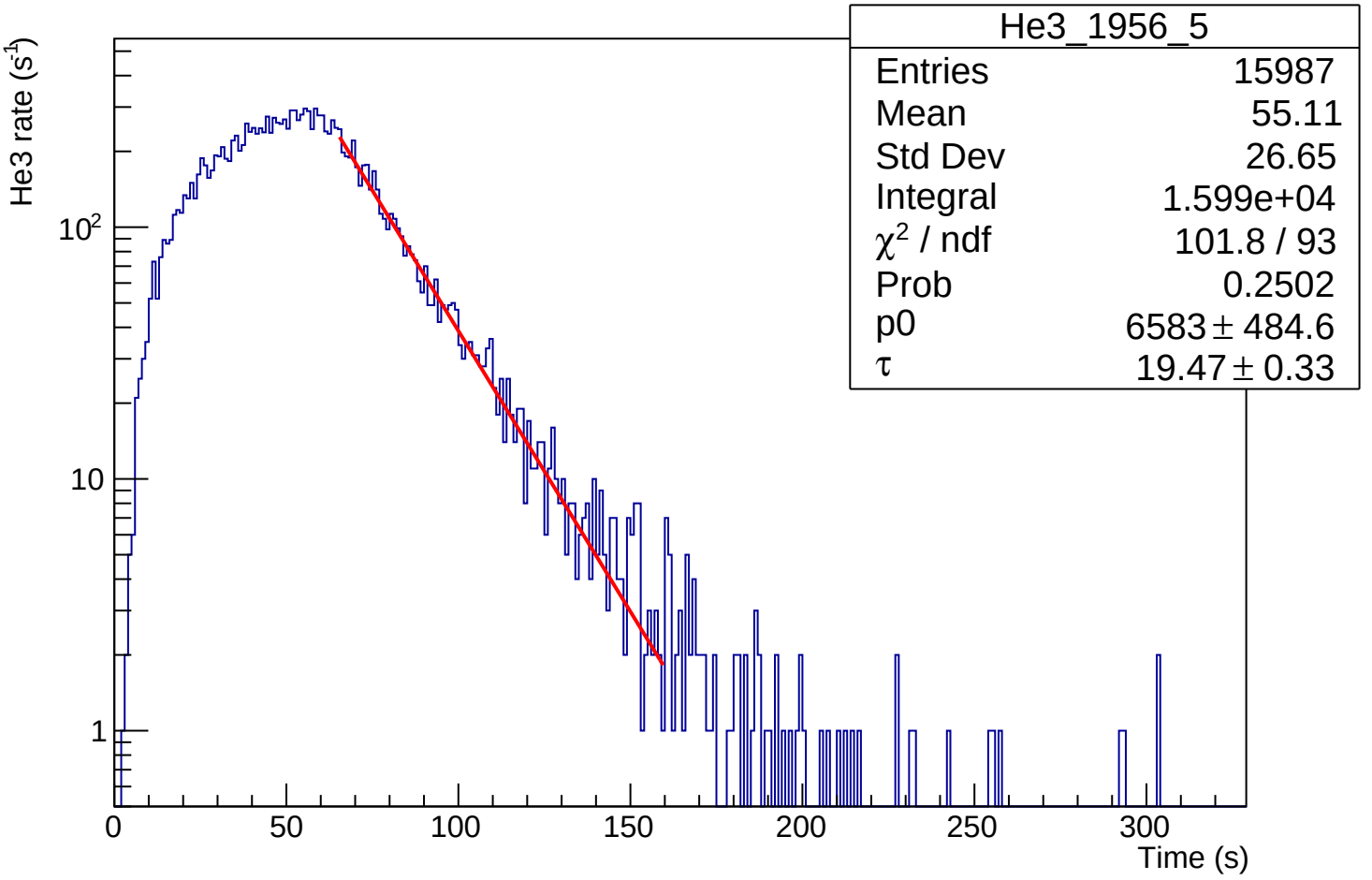

TCN19-280 (spider v3) (He3 rate)
He3_1956_0
Entries 15960
Mean 54.83
Std Dev 25.86
Integral 1.596e+04
χ² / ndf 113.5 / 93
Prob 0.07317
p0 6680 ± 516.6
τ 19.27 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

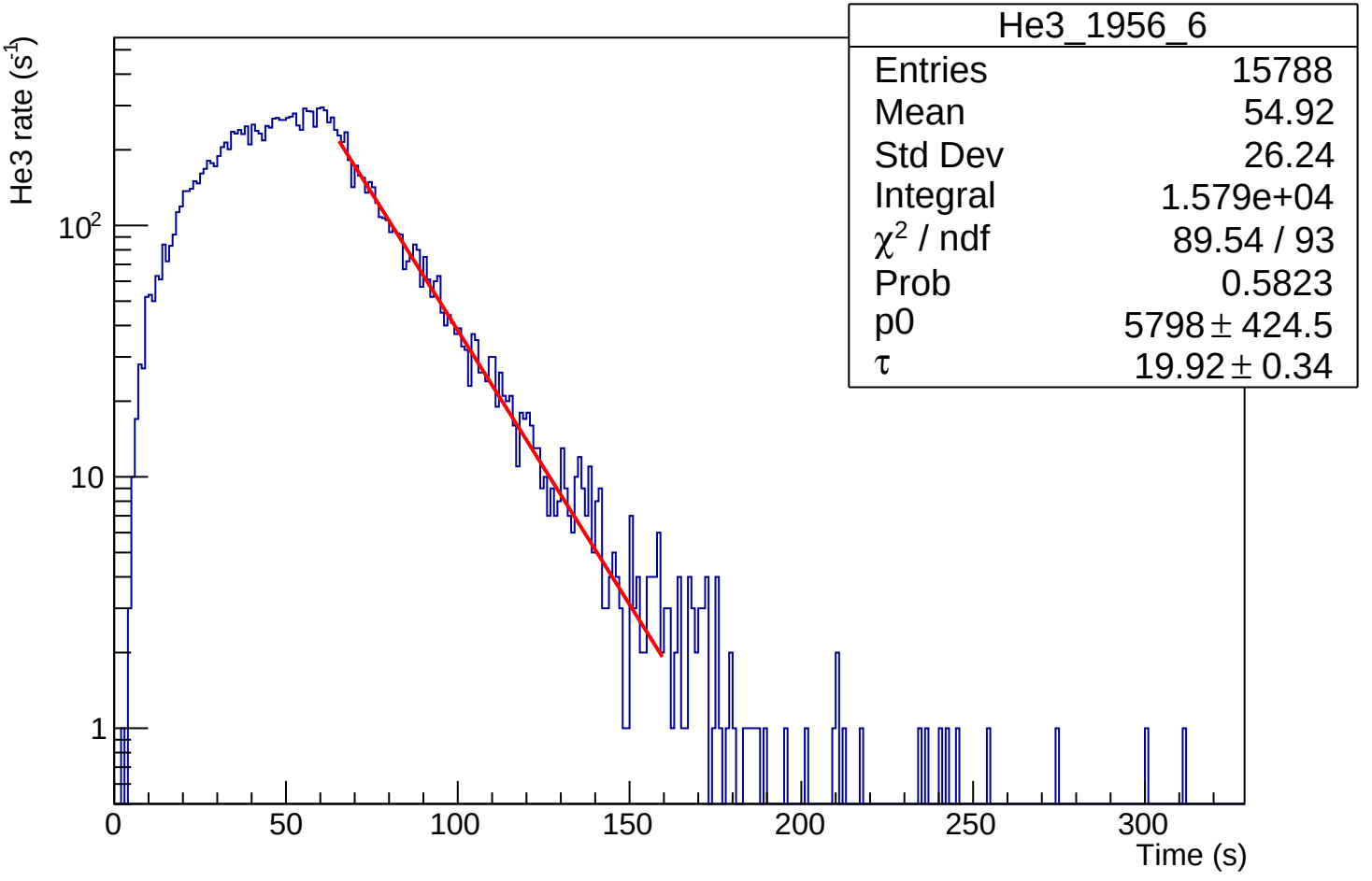

TCN19-280 (spider v3) (He3 rate)
He3_1956_1
Entries 15882
Mean 54.88
Std Dev 26.06
Integral 1.588e+04
χ² / ndf 128.6 / 93
Prob 0.008586
p0 6939 ± 552.1
τ 19.1 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

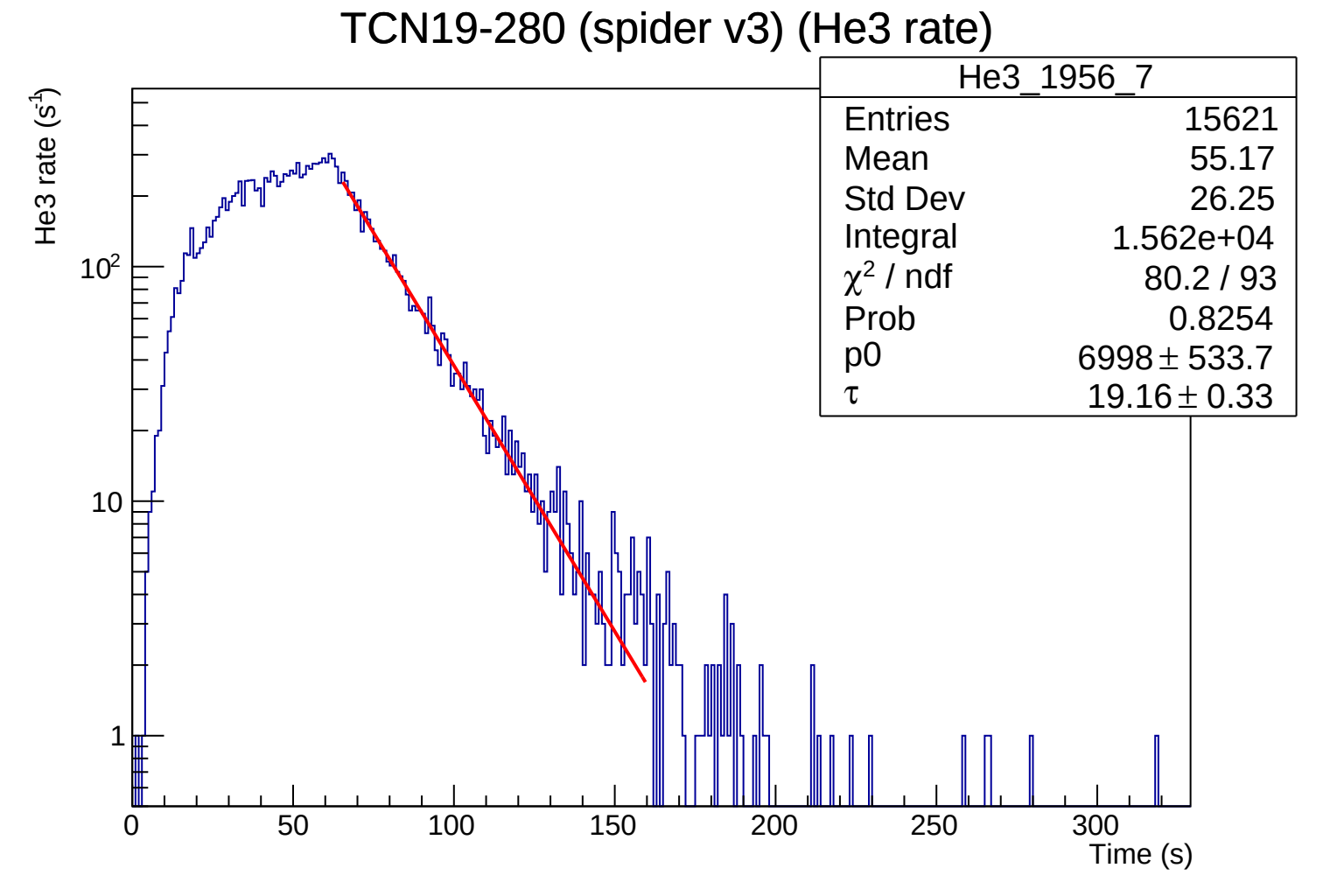

TCN19-280 (spider v3) (He3 rate)
He3_1956_2
Entries 16024
Mean 55.2
Std Dev 26.15
Integral 1.602e+04
χ² / ndf 107.1 / 93
Prob 0.1502
p0 6078 ± 445.6
τ 19.79 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

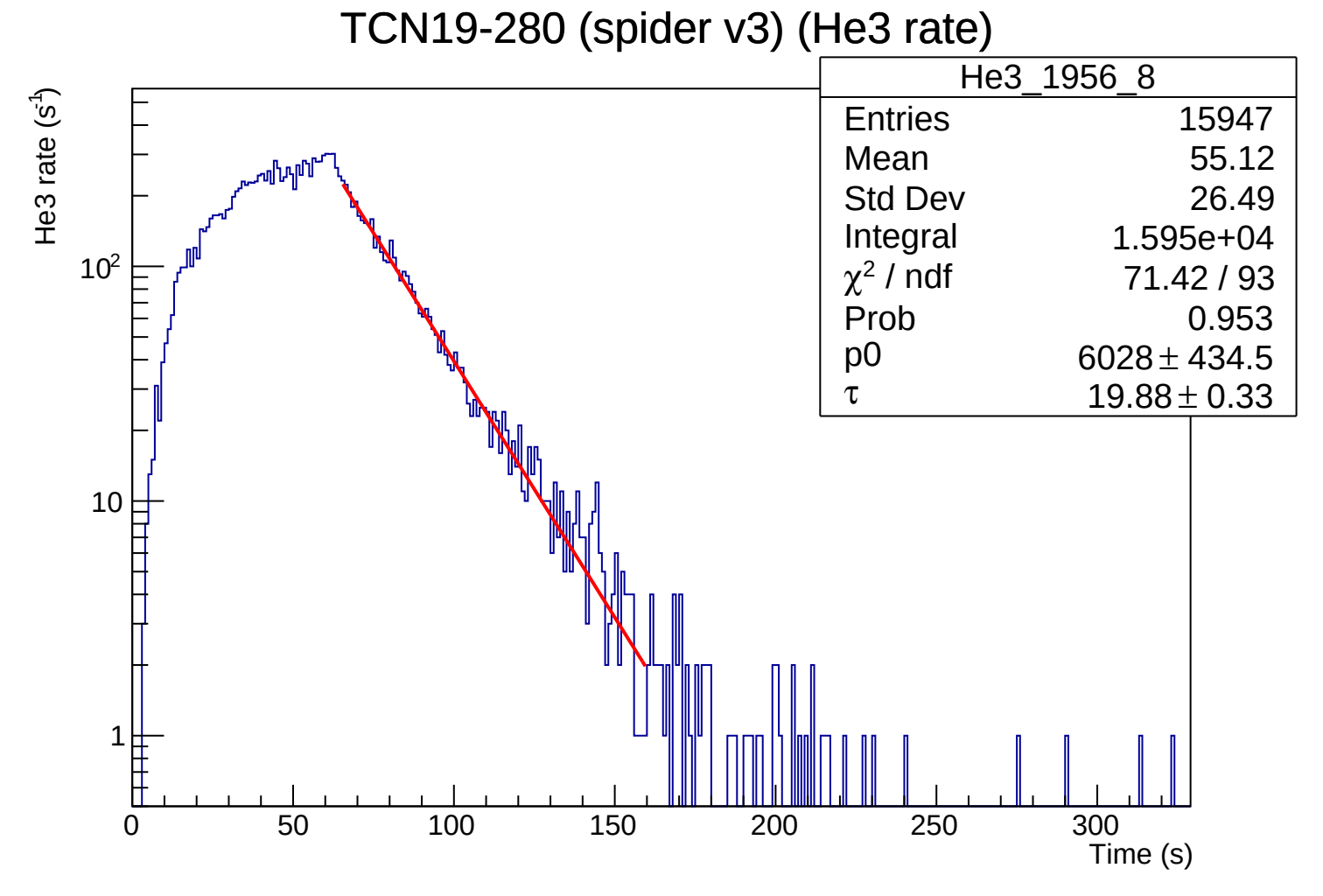

TCN19-280 (spider v3) (He3 rate)
He3_1956_3
Entries 16051
Mean 54.95
Std Dev 26.05
Integral 1.605e+04
χ² / ndf 89.45 / 93
Prob 0.5849
p0 6025 ± 439.3
τ 19.86 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

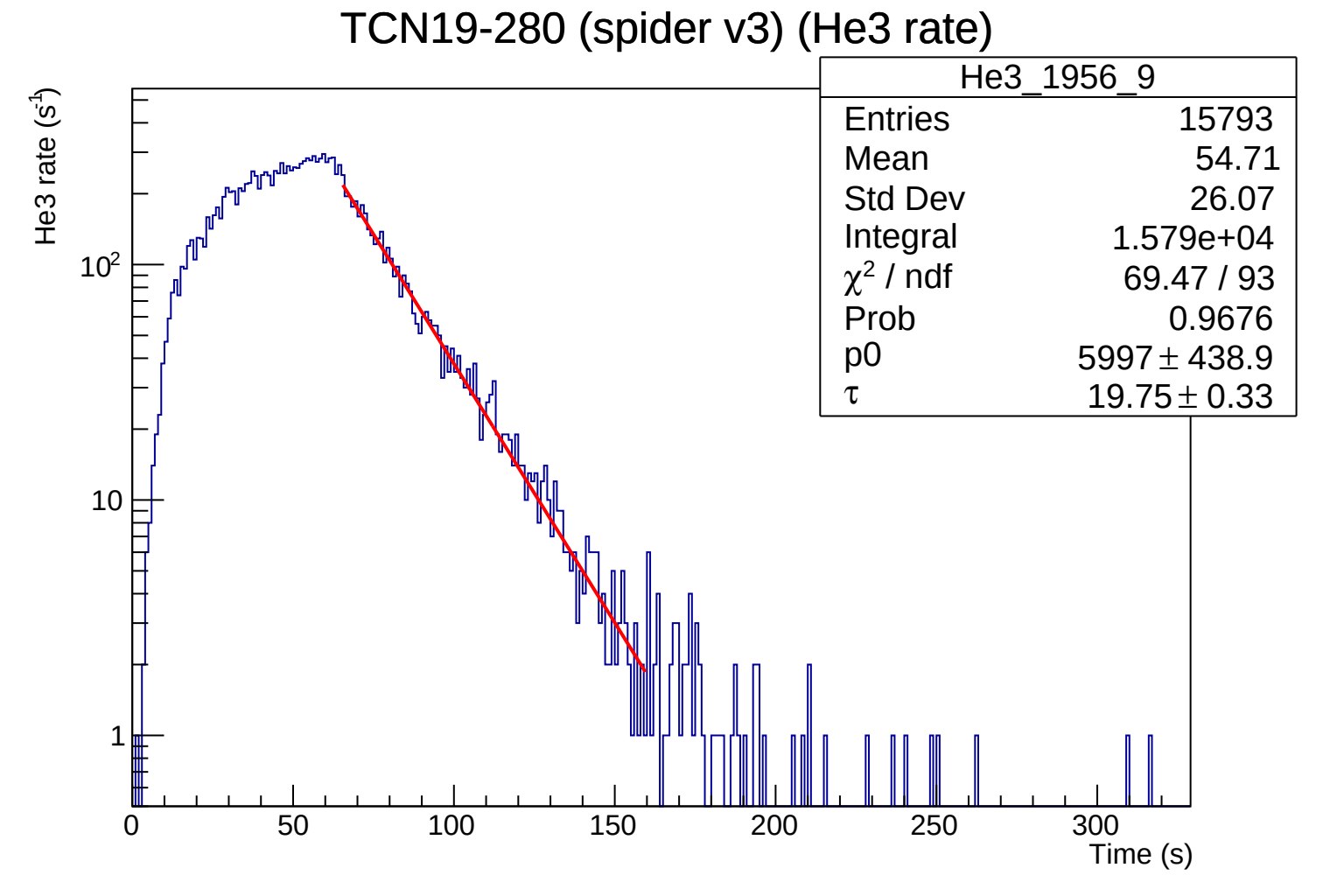

TCN19-280 (spider v3) (He3 rate)
He3_1956_4
Entries 15679
Mean 55.34
Std Dev 26.63
Integral 1.568e+04
χ² / ndf 110.1 / 92
Prob 0.09572
p0 6015 ± 462.7
τ 19.76 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

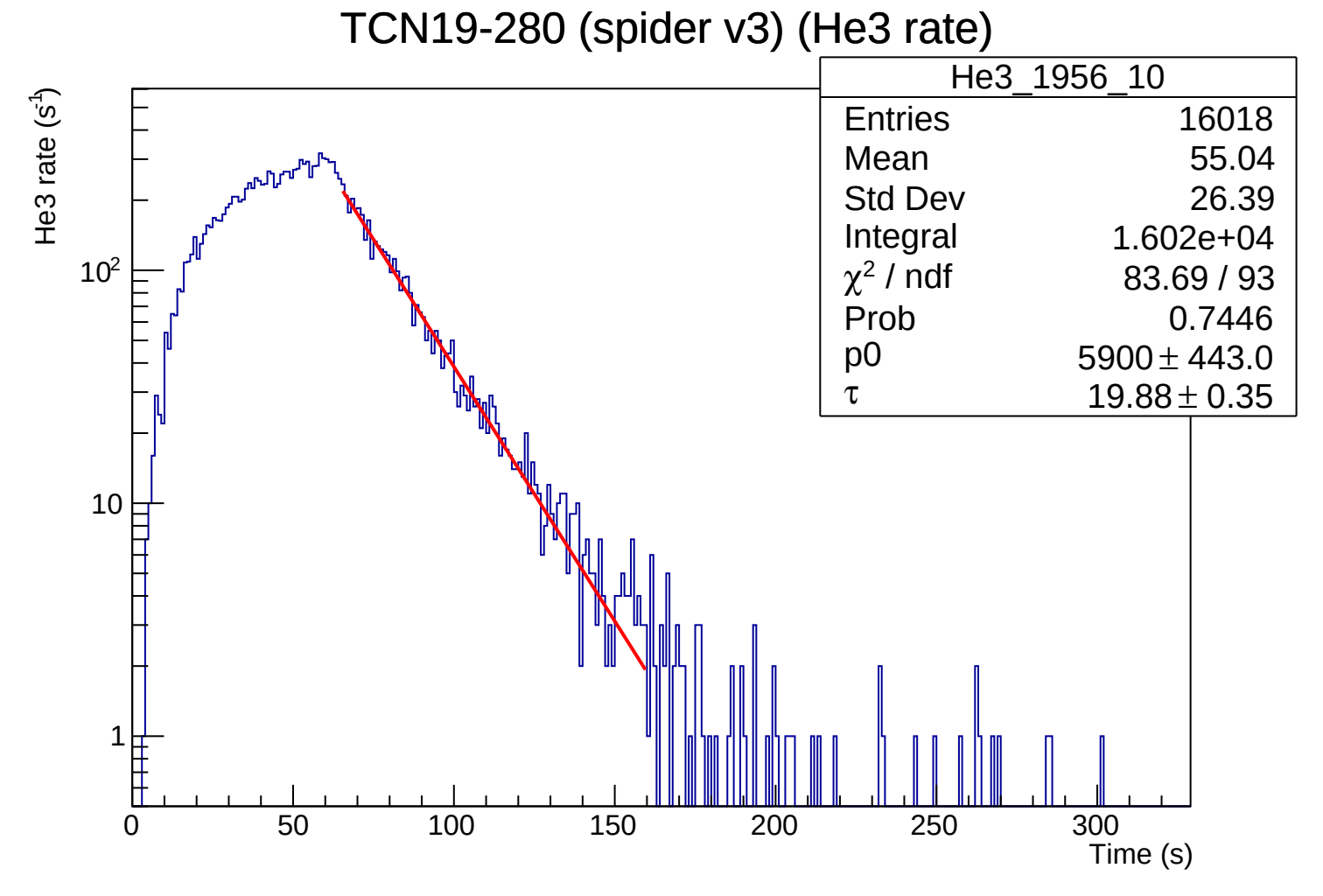

TCN19-280 (spider v3) (He3 rate)
He3_1956_5
Entries 15987
Mean 55.11
Std Dev 26.65
Integral 1.599e+04
χ² / ndf 101.8 / 93
Prob 0.2502
p0 6583 ± 484.6
τ 19.47 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

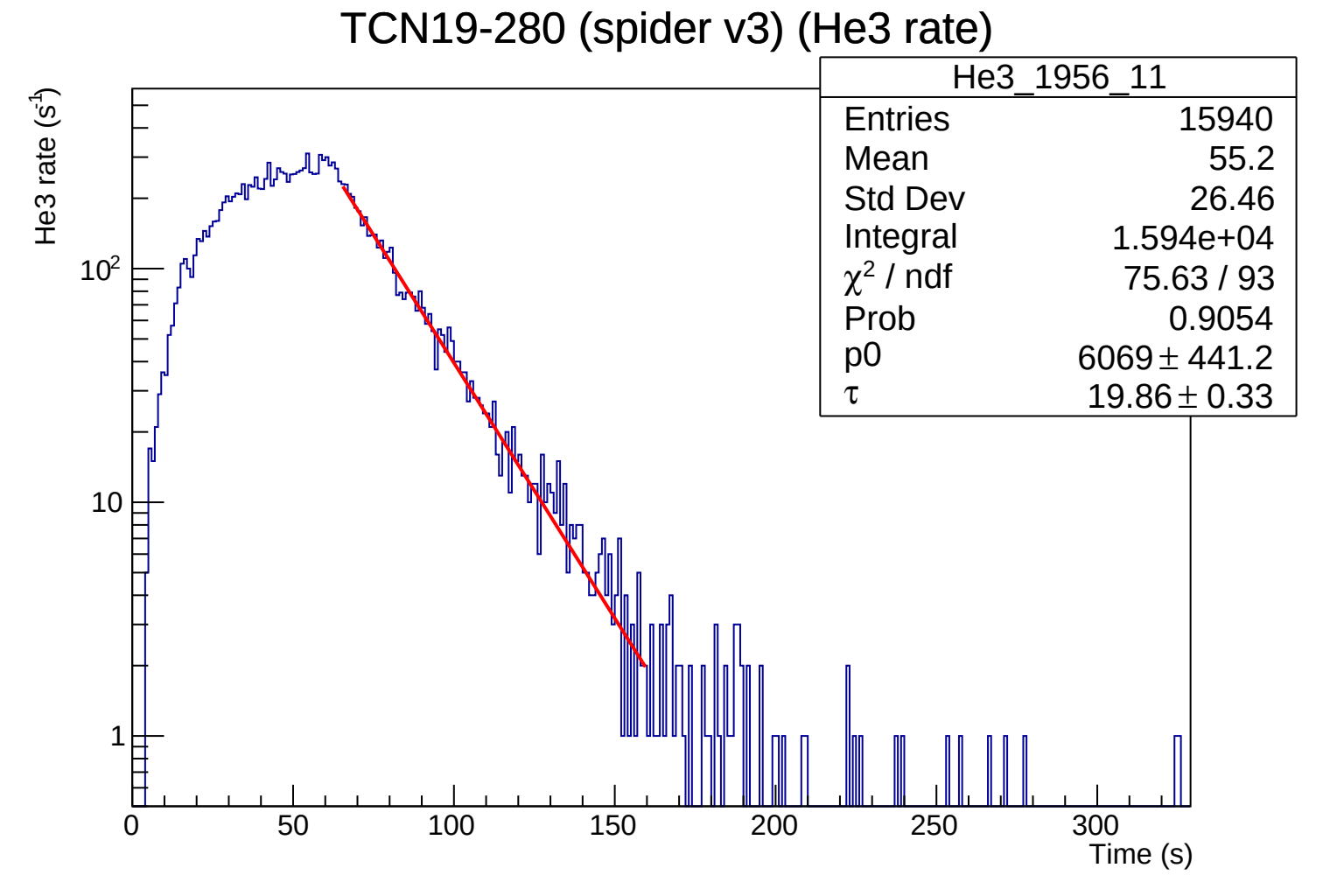

TCN19-280 (spider v3) (He3 rate)
He3_1956_6
Entries 15788
Mean 54.92
Std Dev 26.24
Integral 1.579e+04
χ² / ndf 89.54 / 93
Prob 0.5823
p0 5798 ± 424.5
τ 19.92 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

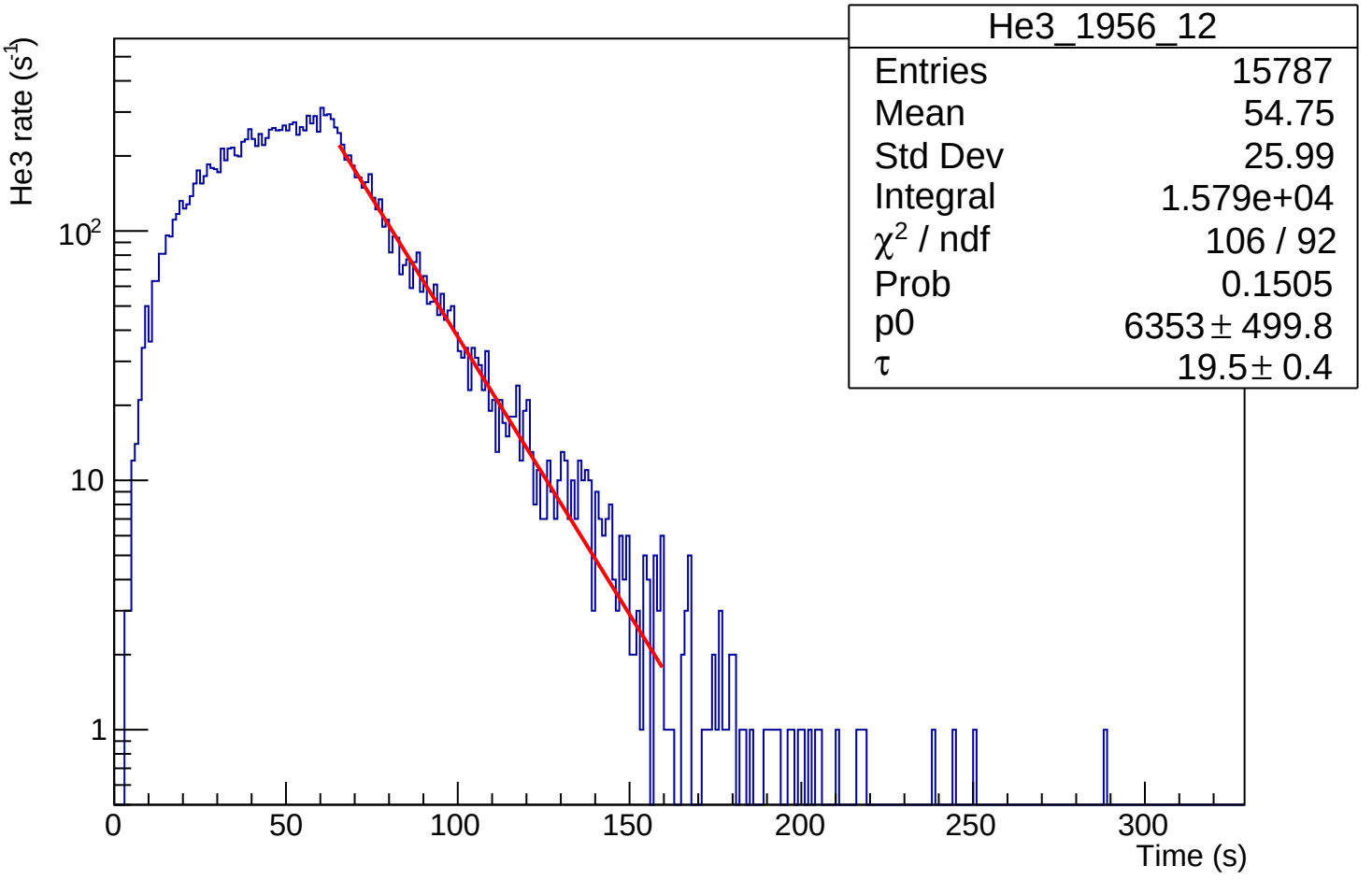

TCN19-280 (spider v3) (He3 rate)
He3_1956_7
Entries 15621
Mean 55.17
Std Dev 26.25
Integral 1.562e+04
χ² / ndf 80.2 / 93
Prob 0.8254
p0 6998 ± 533.7
τ 19.16 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

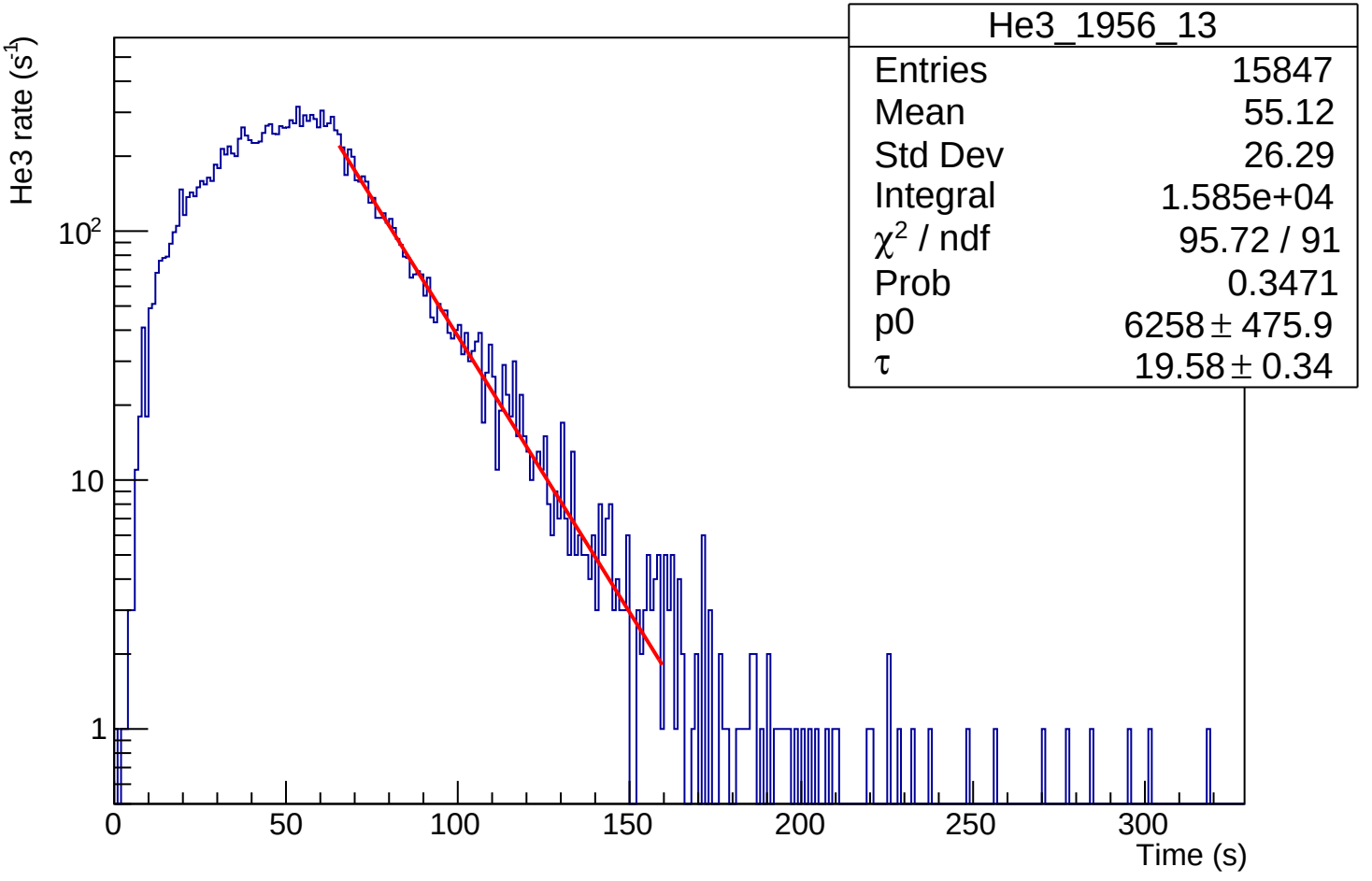

TCN19-280 (spider v3) (He3 rate)
He3_1956_8
Entries 15947
Mean 55.12
Std Dev 26.49
Integral 1.595e+04
χ² / ndf 71.42 / 93
Prob 0.953
p0 6028 ± 434.5
τ 19.88 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

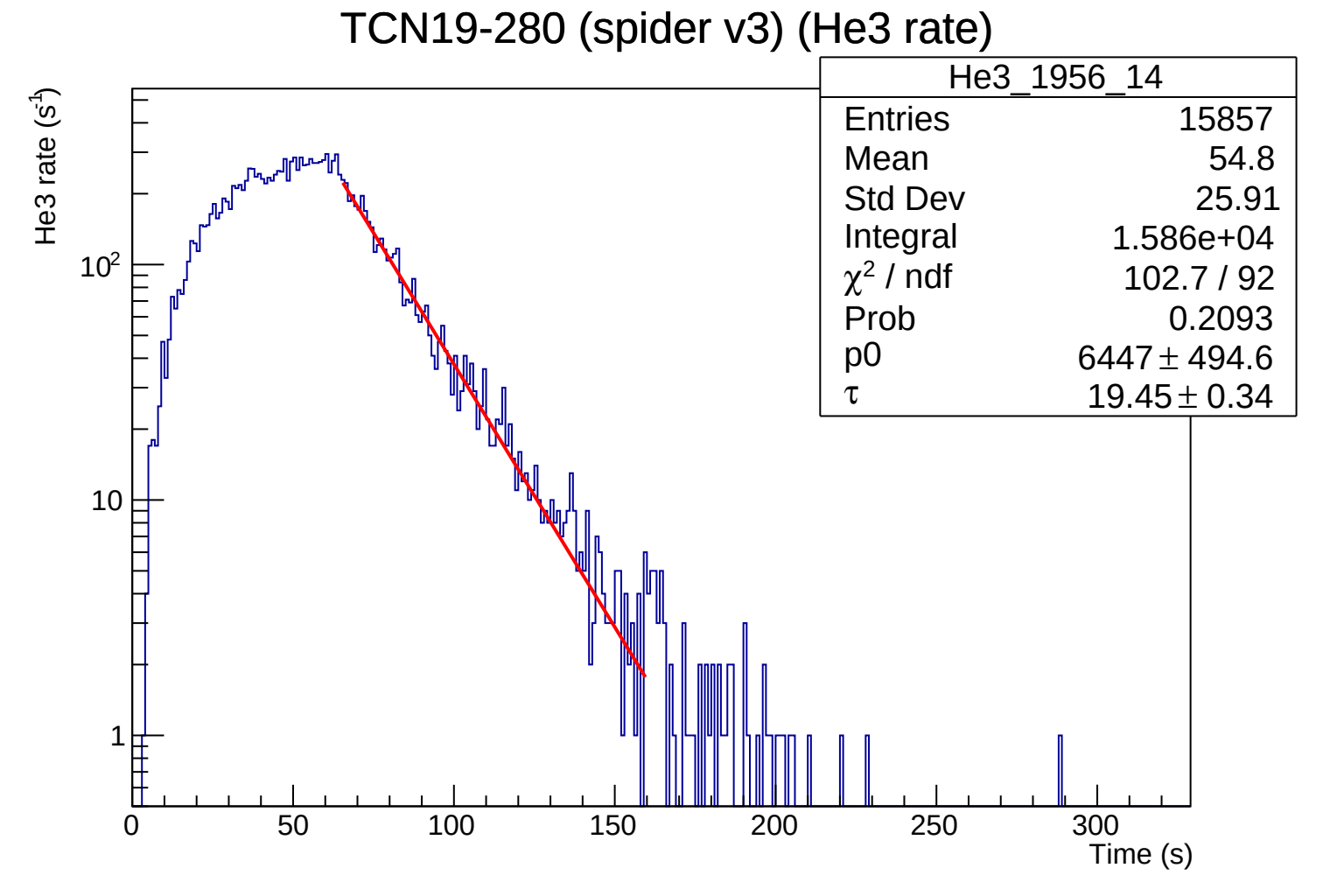

TCN19-280 (spider v3) (He3 rate)
He3_1956_9
Entries 15793
Mean 54.71
Std Dev 26.07
Integral 1.579e+04
χ² / ndf 69.47 / 93
Prob 0.9676
p0 5997 ± 438.9
τ 19.75 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

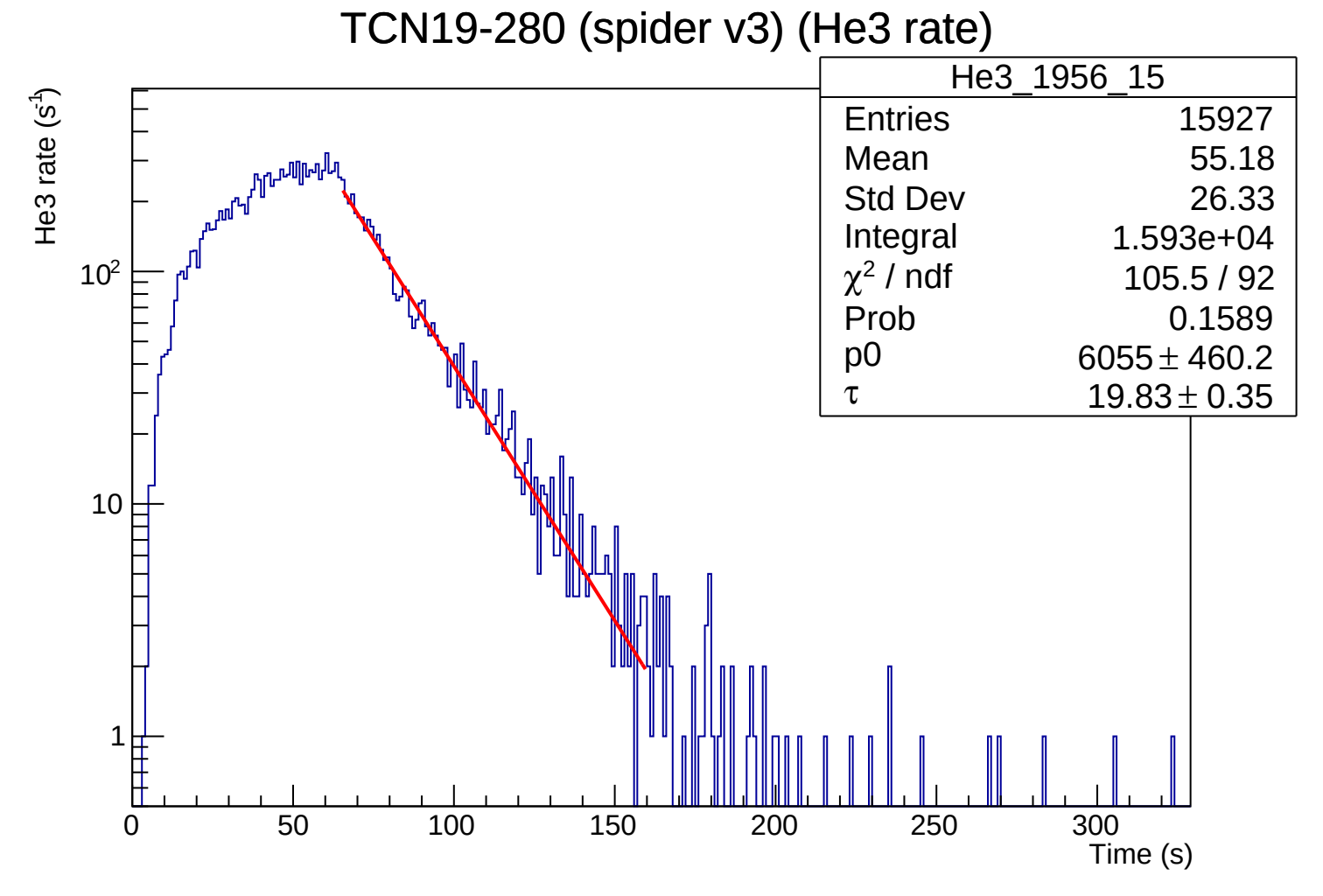

TCN19-280 (spider v3) (He3 rate)
He3_1956_10
Entries 16018
Mean 55.04
Std Dev 26.39
Integral 1.602e+04
χ² / ndf 83.69 / 93
Prob 0.7446
p0 5900 ± 443.0
τ 19.88 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

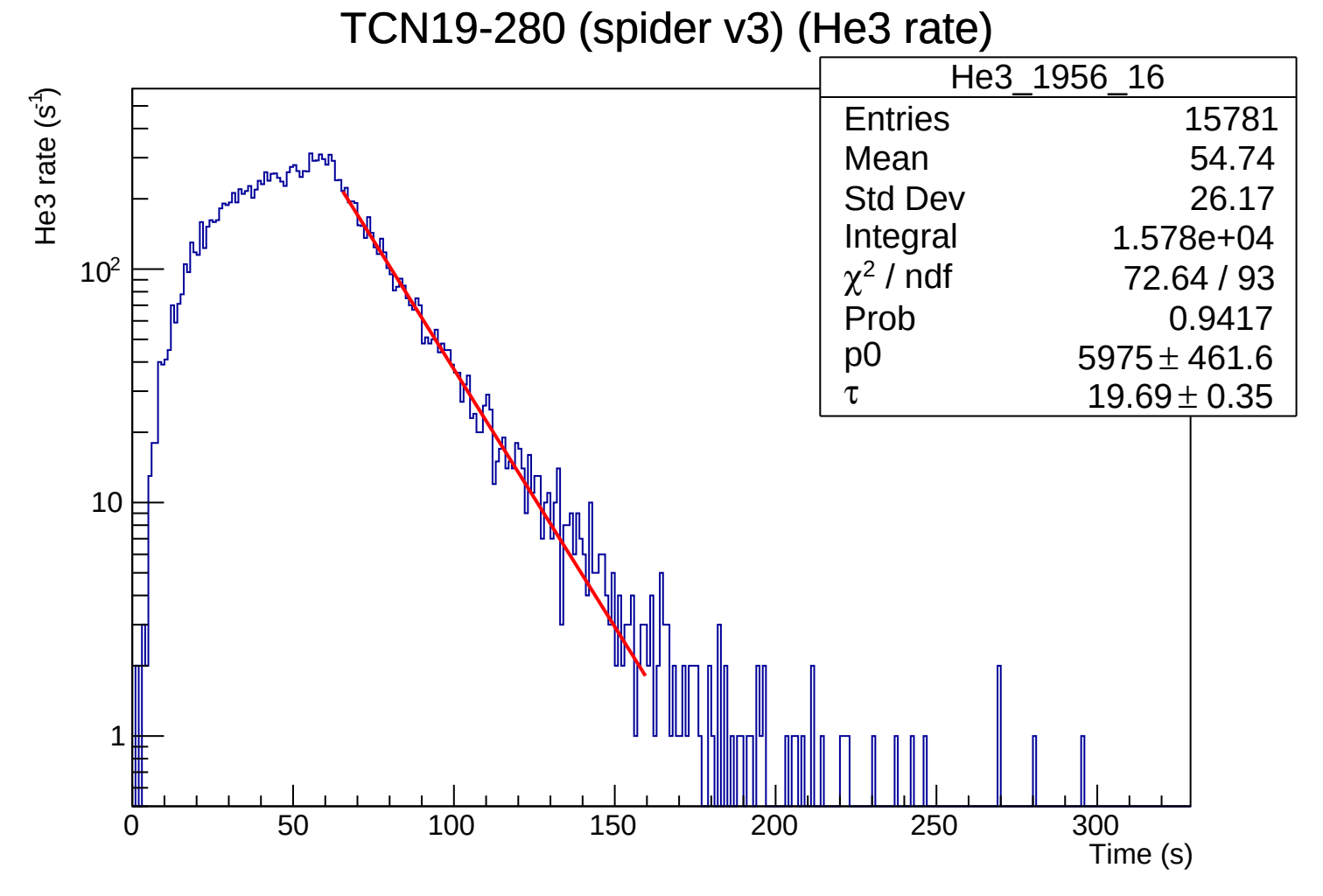

TCN19-280 (spider v3) (He3 rate)
He3_1956_11
Entries 15940
Mean 55.2
Std Dev 26.46
Integral 1.594e+04
χ² / ndf 75.63 / 93
Prob 0.9054
p0 6069 ± 441.2
τ 19.86 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

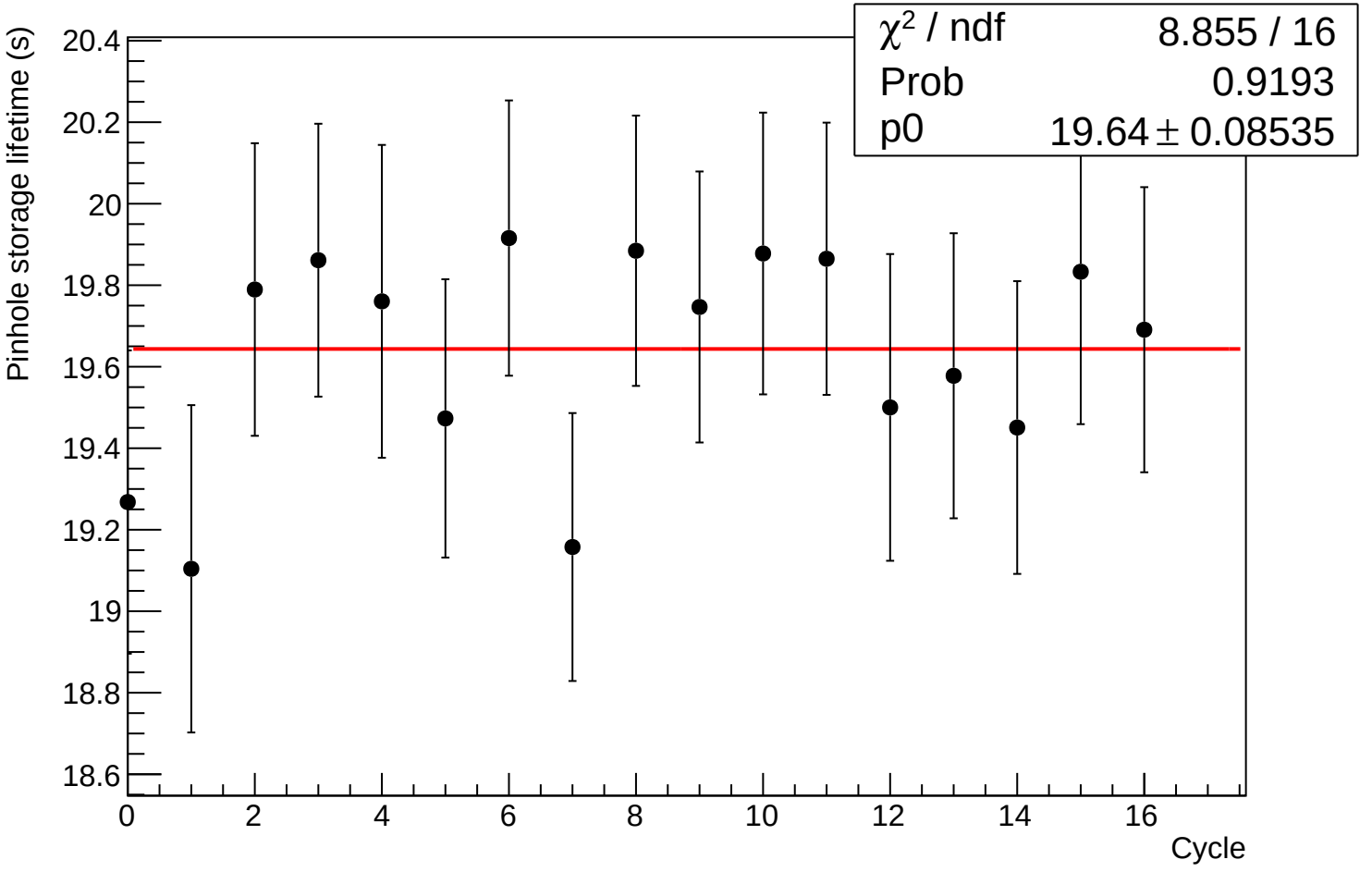

TCN19-280 (spider v3) (He3 rate)
He3_1956_12
Entries 15787
Mean 54.75
Std Dev 25.99
Integral 1.579e+04
χ² / ndf 106 / 92
Prob 0.1505
p0 6353 ± 499.8
τ 19.5 ± 0.4
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

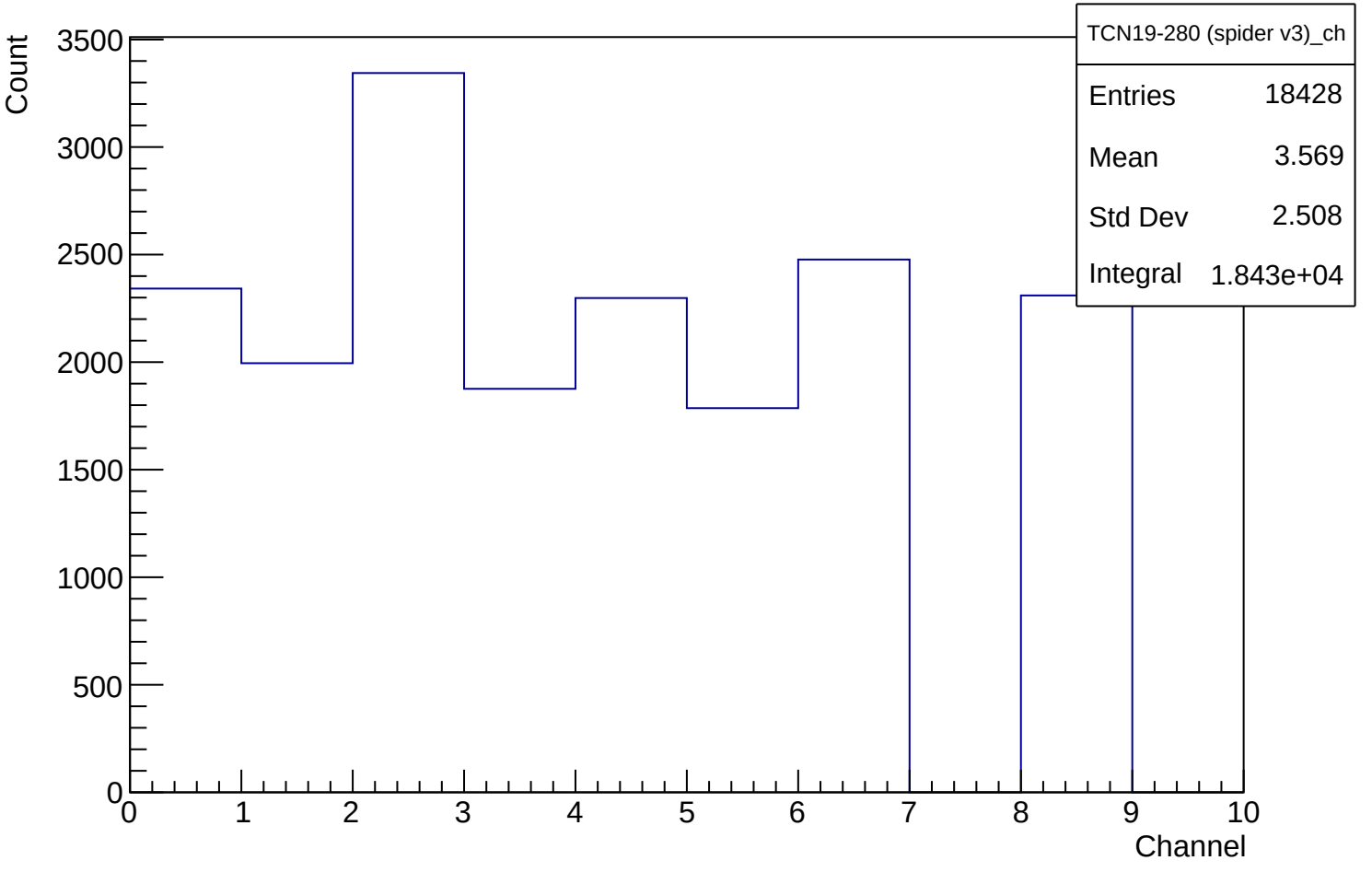

TCN19-280 (spider v3) (He3 rate)
He3_1956_13
Entries 15847
Mean 55.12
Std Dev 26.29
Integral 1.585e+04
χ² / ndf 95.72 / 91
Prob 0.3471
p0 6258 ± 475.9
τ 19.58 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-280 (spider v3) (He3 rate)
He3_1956_14
Entries 15857
Mean 54.8
Std Dev 25.91
Integral 1.586e+04
χ² / ndf 102.7 / 92
Prob 0.2093
p0 6447 ± 494.6
τ 19.45 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-280 (spider v3) (He3 rate)
He3_1956_15
Entries 15927
Mean 55.18
Std Dev 26.33
Integral 1.593e+04
χ² / ndf 105.5 / 92
Prob 0.1589
p0 6055 ± 460.2
τ 19.83 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-280 (spider v3) (He3 rate)
He3_1956_16
Entries 15781
Mean 54.74
Std Dev 26.17
Integral 1.578e+04
χ² / ndf 72.64 / 93
Prob 0.9417
p0 5975 ± 461.6
τ 19.69 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


χ^2 / ndf 8.855 / 16
Prob 0.9193
p0 19.64 ± 0.08535
Pinhole storage lifetime (s)
20.4
20.2
20
19.8
19.6
19.4
19.2
19
18.8
18.6
0
2
4
6
8
10
12
14
16
Cycle


TCN19-280 (spider v3)
TCN19-280 (spider v3)_ch
Entries 18428
Mean 3.569
Std Dev 2.508
Integral 1.843e+04
Count
Channel
0
500
1000
1500
2000
2500
3000
3500
0
1
2
3
4
5
6
7
8
9
10