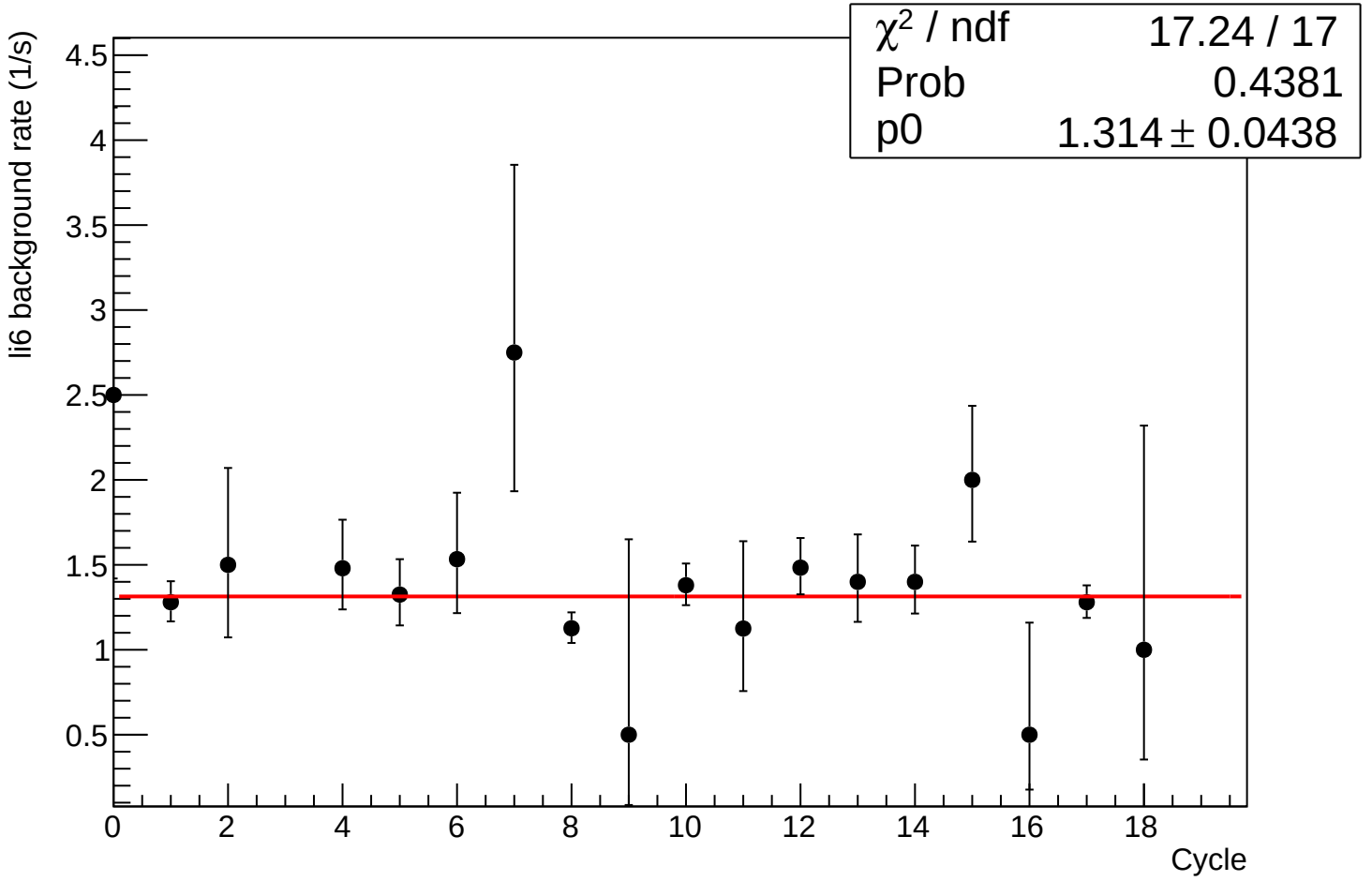
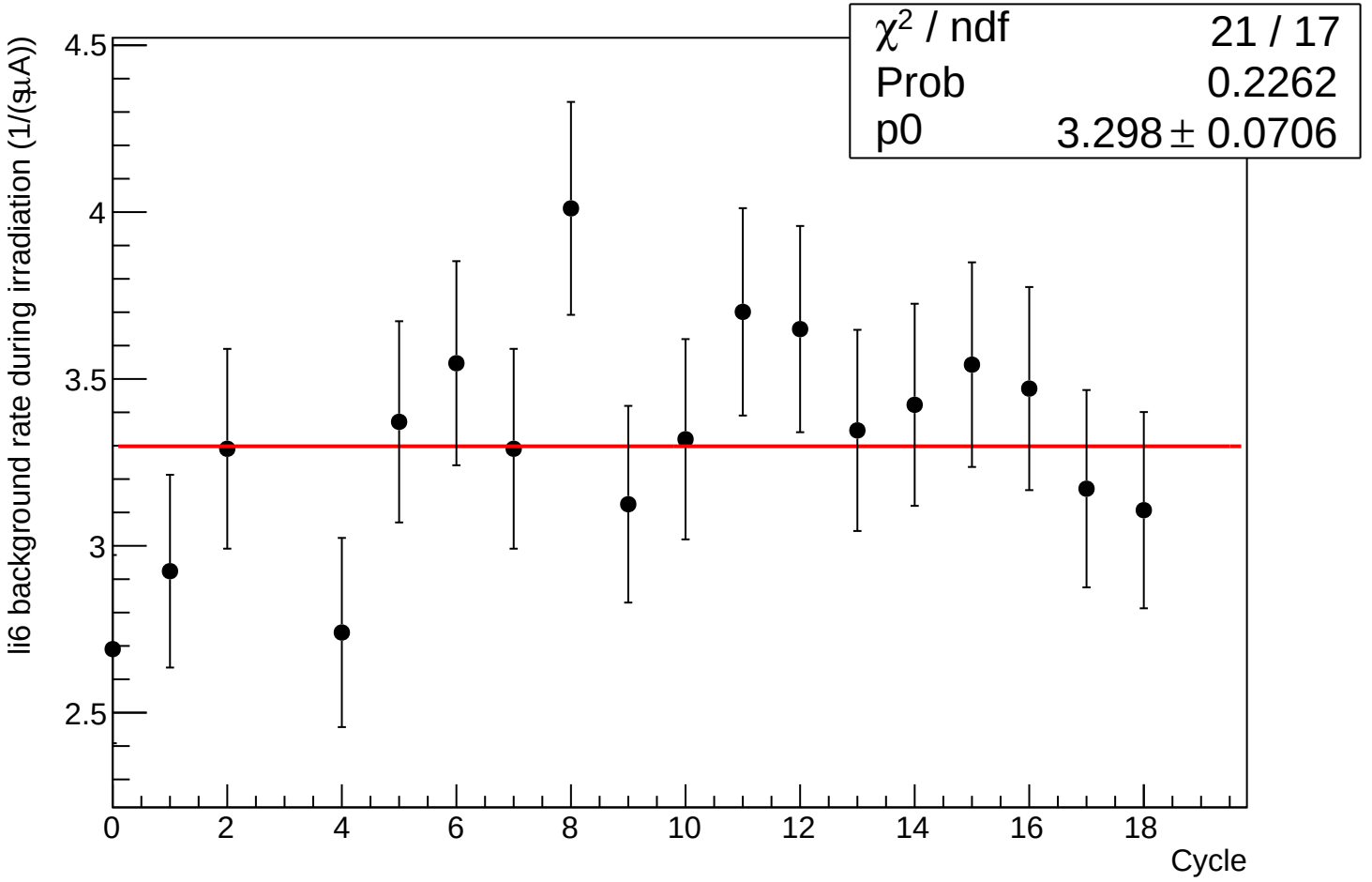
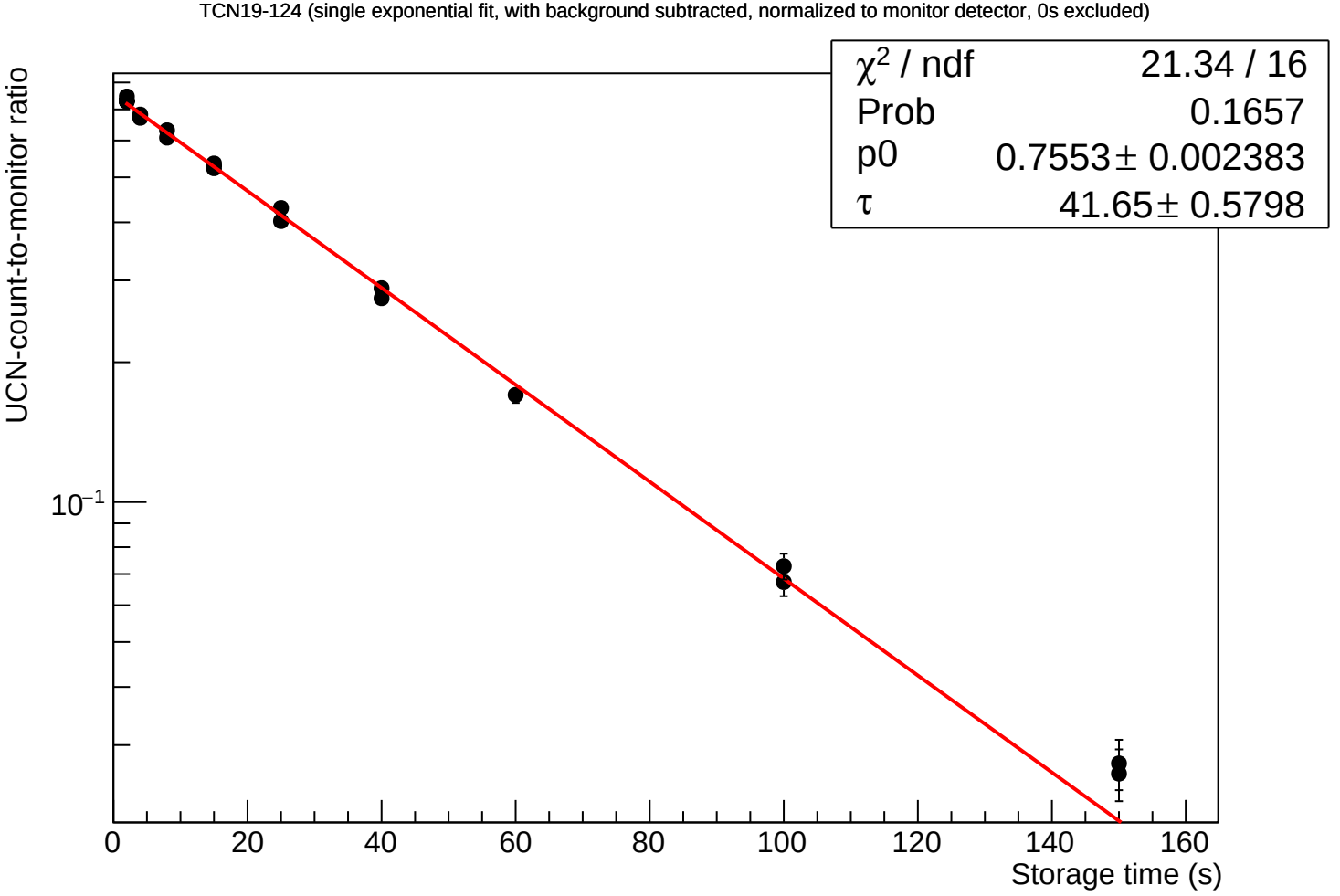
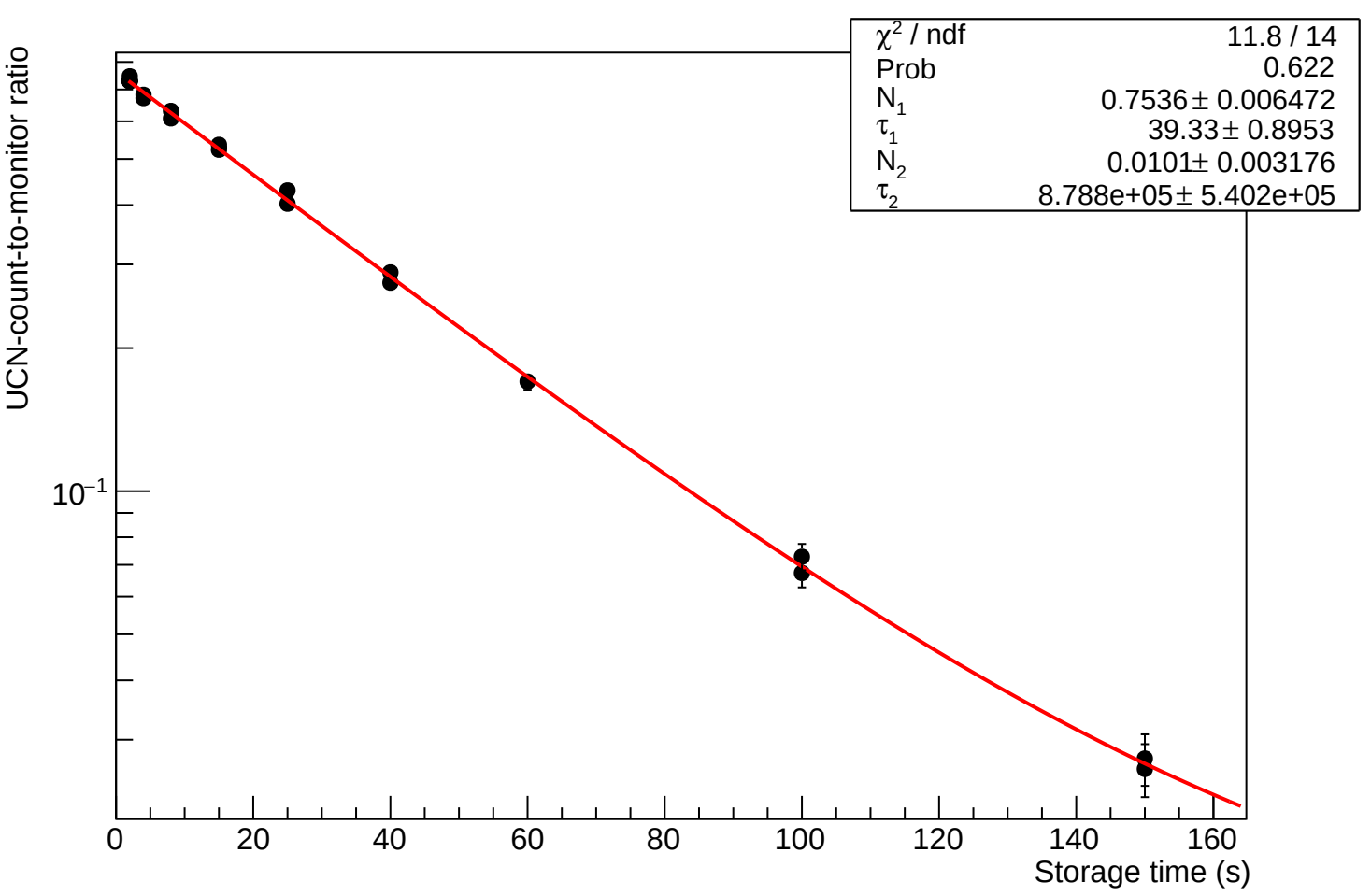
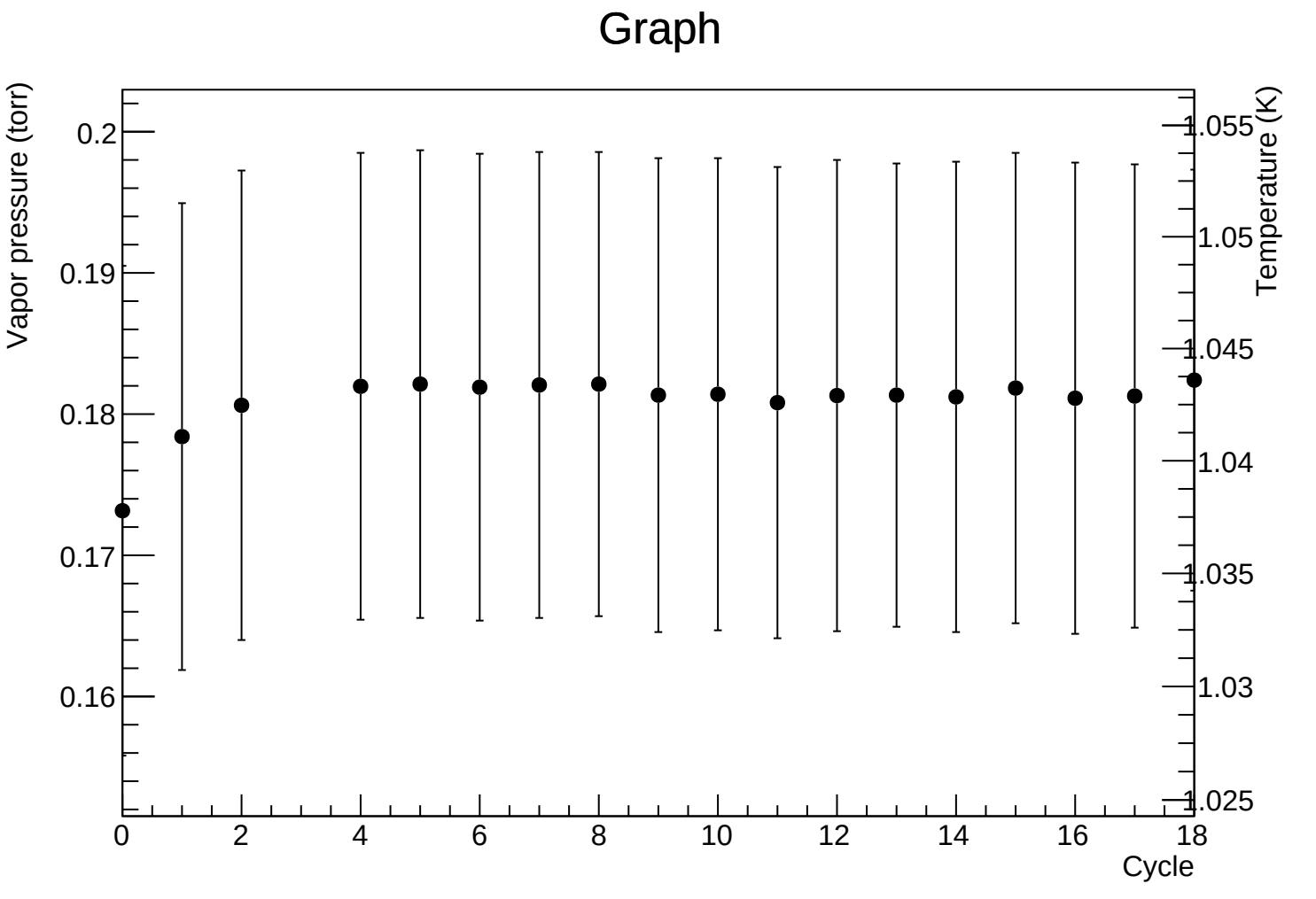
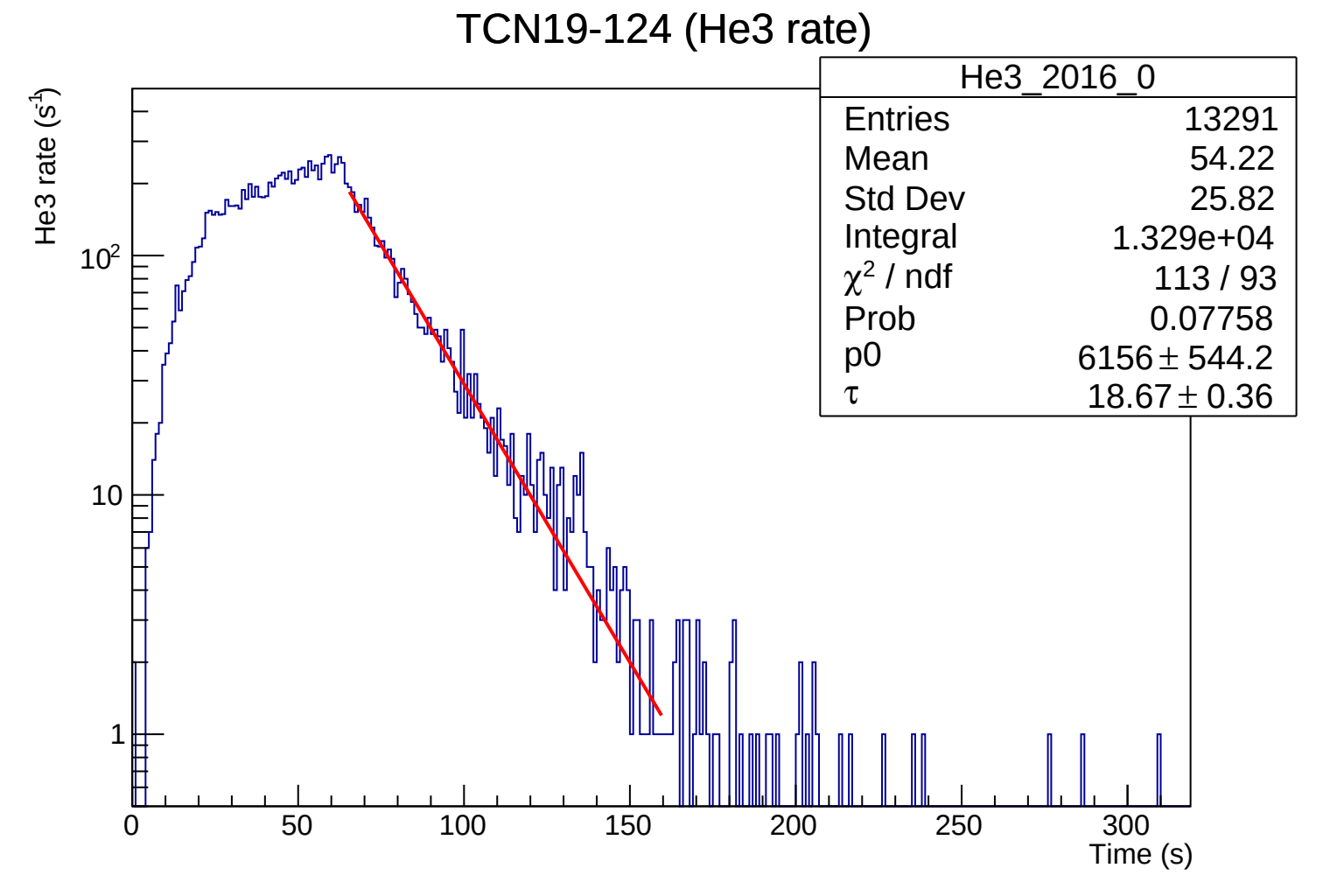

χ^2 / ndf 17.24 / 17
Prob 0.4381
p0 1.314 ± 0.0438
li6 background rate (1/s)
Cycle
0
2
4
6
8
10
12
14
16
18
0.5
1
1.5
2
2.5
3
3.5
4
4.5

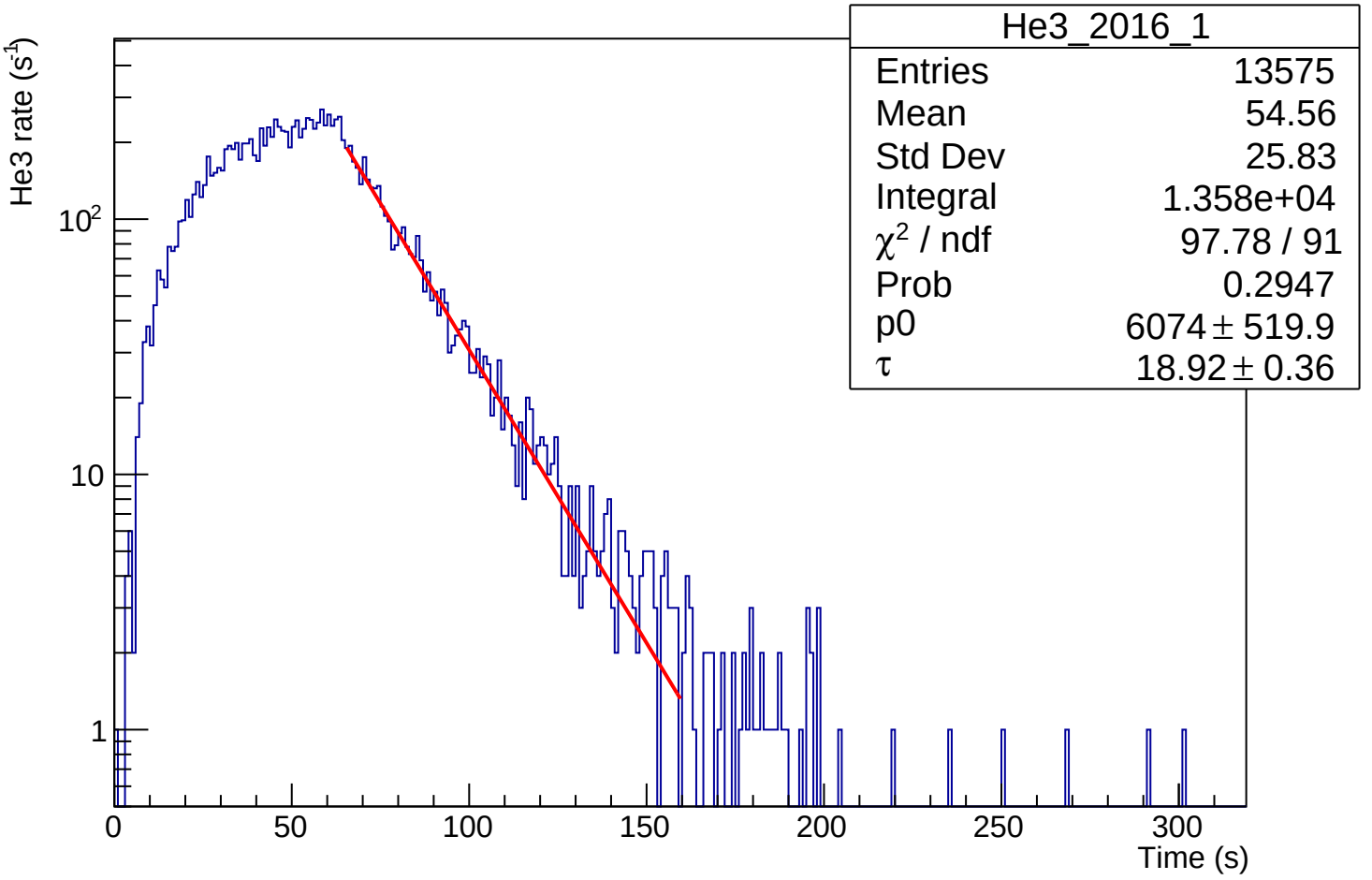

χ^2 / ndf 21 / 17
Prob 0.2262
p0 3.298 ± 0.0706
li6 background rate during irradiation (1/(μA))
Cycle
4.5
4
3.5
3
2.5
0
2
4
6
8
10
12
14
16
18

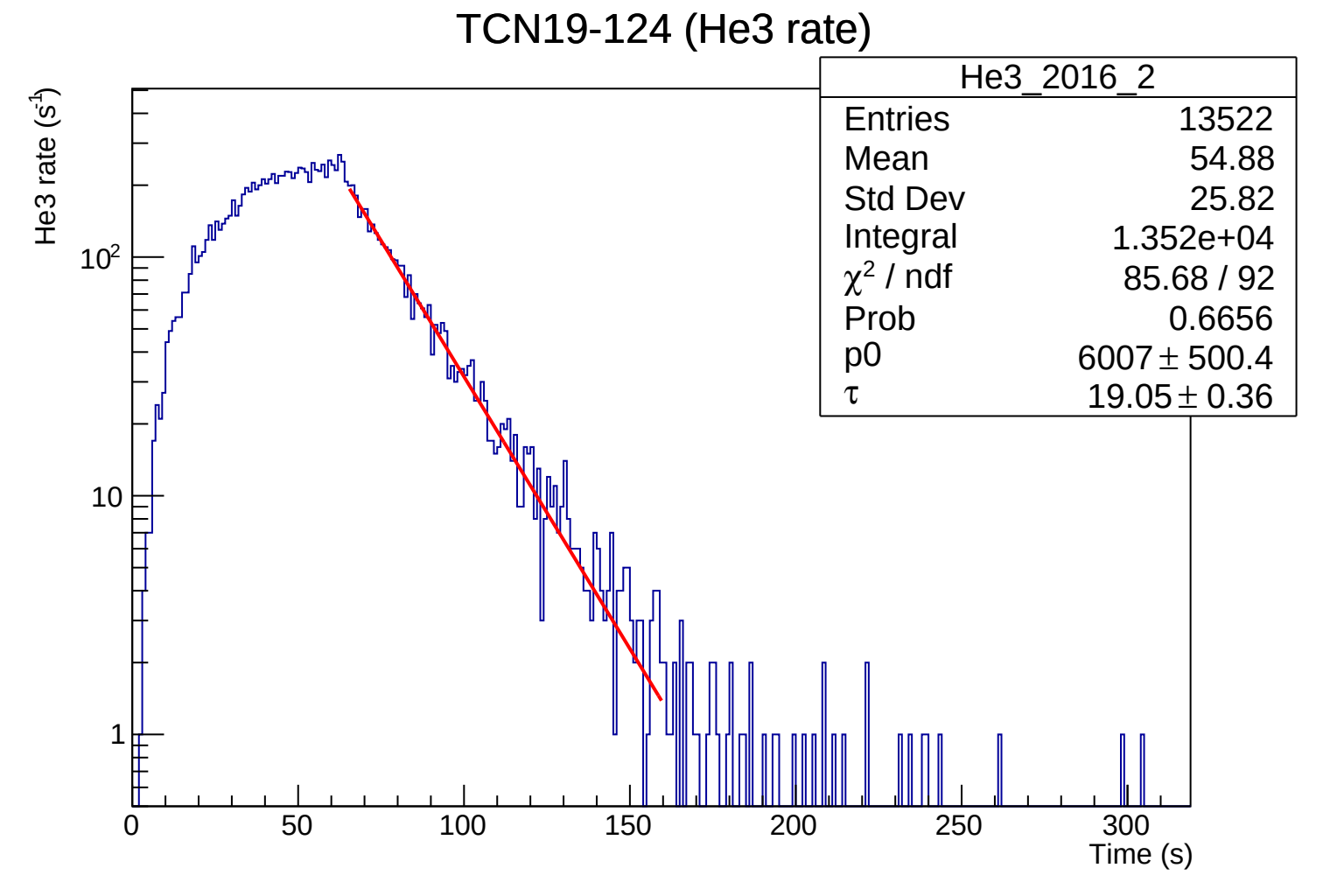

TCN19-124 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 21.34 / 16
Prob 0.1657
p0 0.7553 ± 0.002383
τ 41.65 ± 0.5798
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

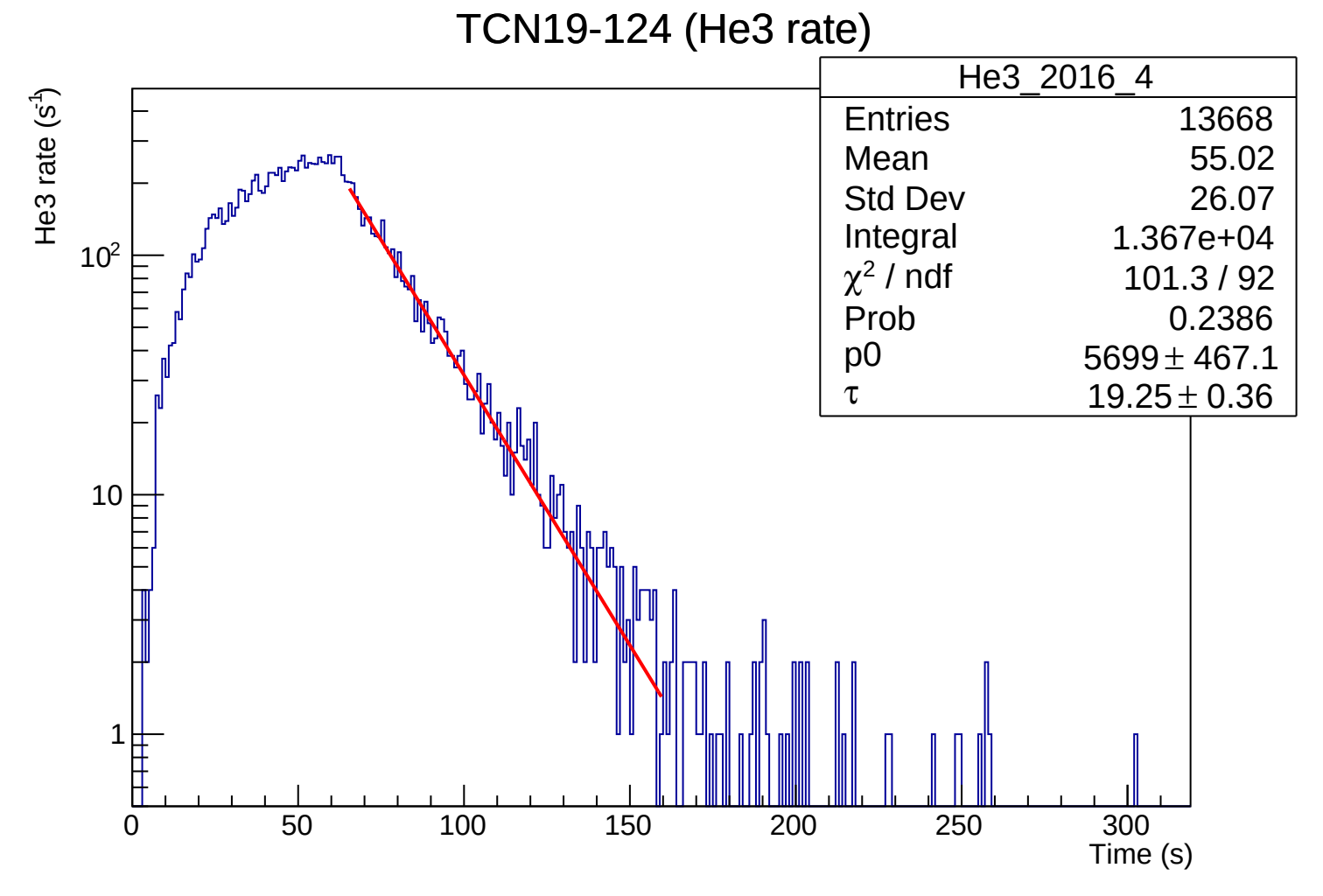

TCN19-124 (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 11.8 / 14
Prob 0.622
N1 0.7536 ± 0.006472
τ1 39.33 ± 0.8953
N2 0.0101 ± 0.003176
τ2 8.788e+05 ± 5.402e+05
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

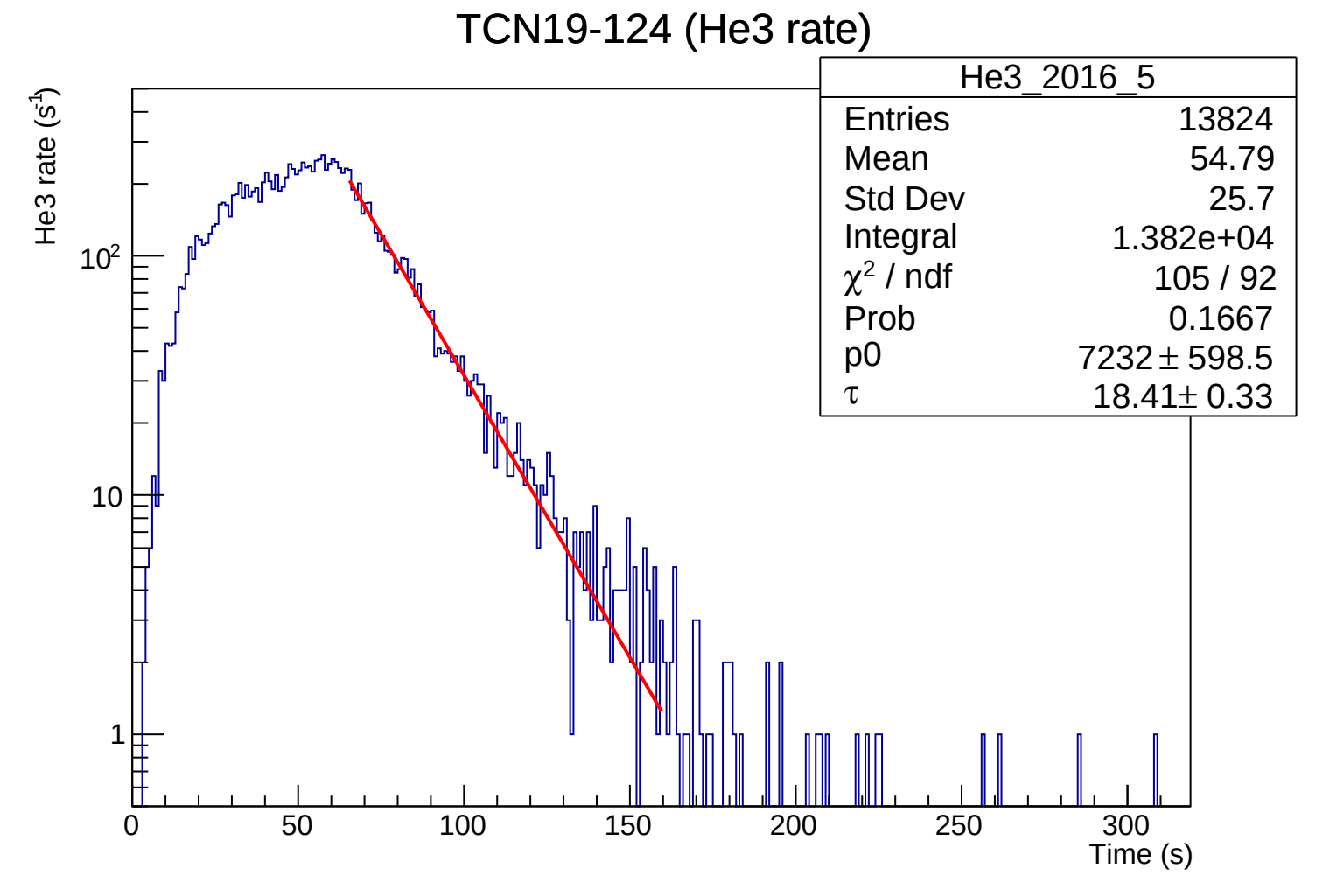

Graph
Vapor pressure (torr)
0.2
0.19
0.18
0.17
0.16
Temperature (K)
1.055
1.05
1.045
1.04
1.035
1.03
1.025
0
2
4
6
8
10
12
14
16
18
Cycle

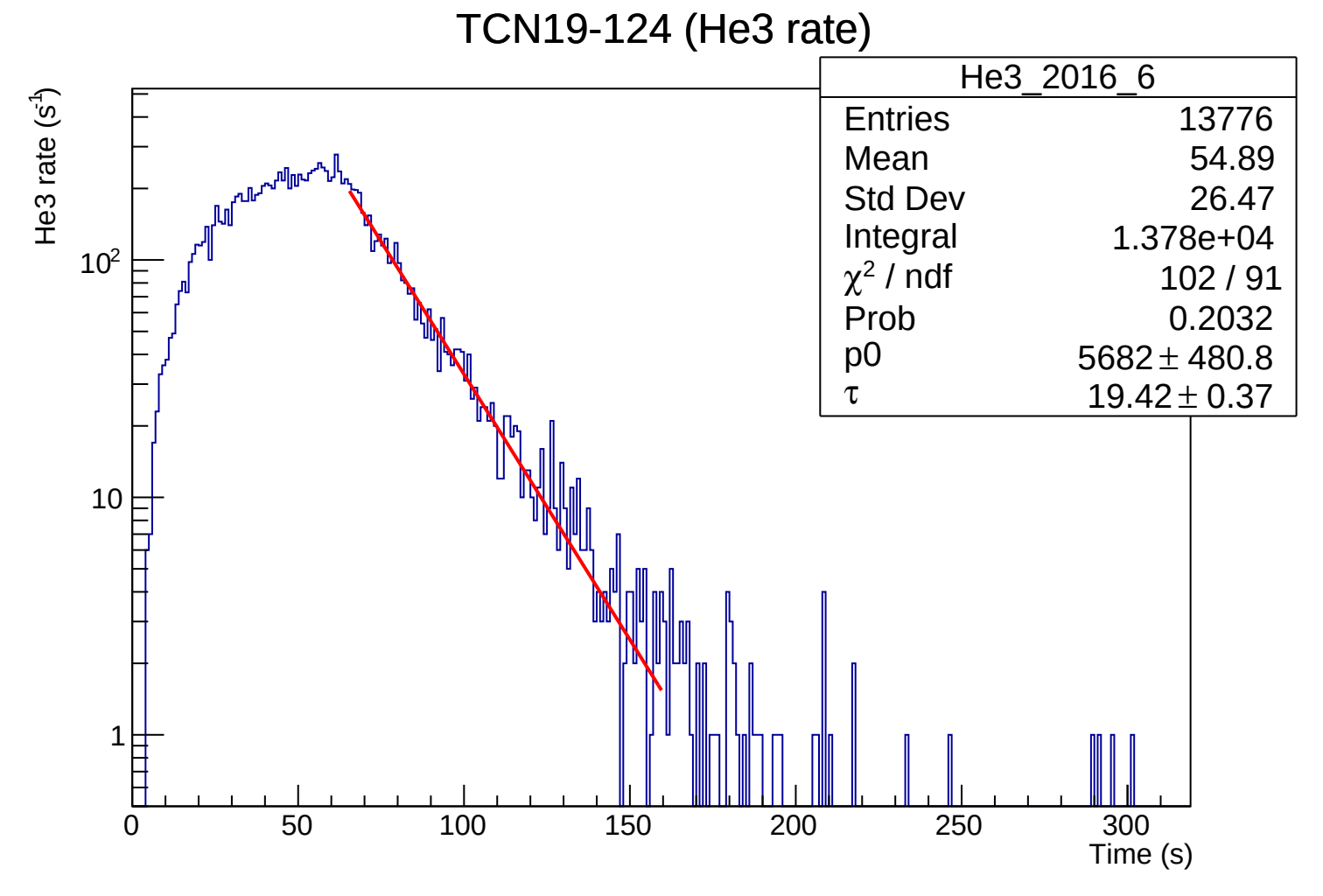

TCN19-124 (He3 rate)
He3_2016_0
Entries 13291
Mean 54.22
Std Dev 25.82
Integral 1.329e+04
χ² / ndf 113 / 93
Prob 0.07758
p0 6156 ± 544.2
τ 18.67 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

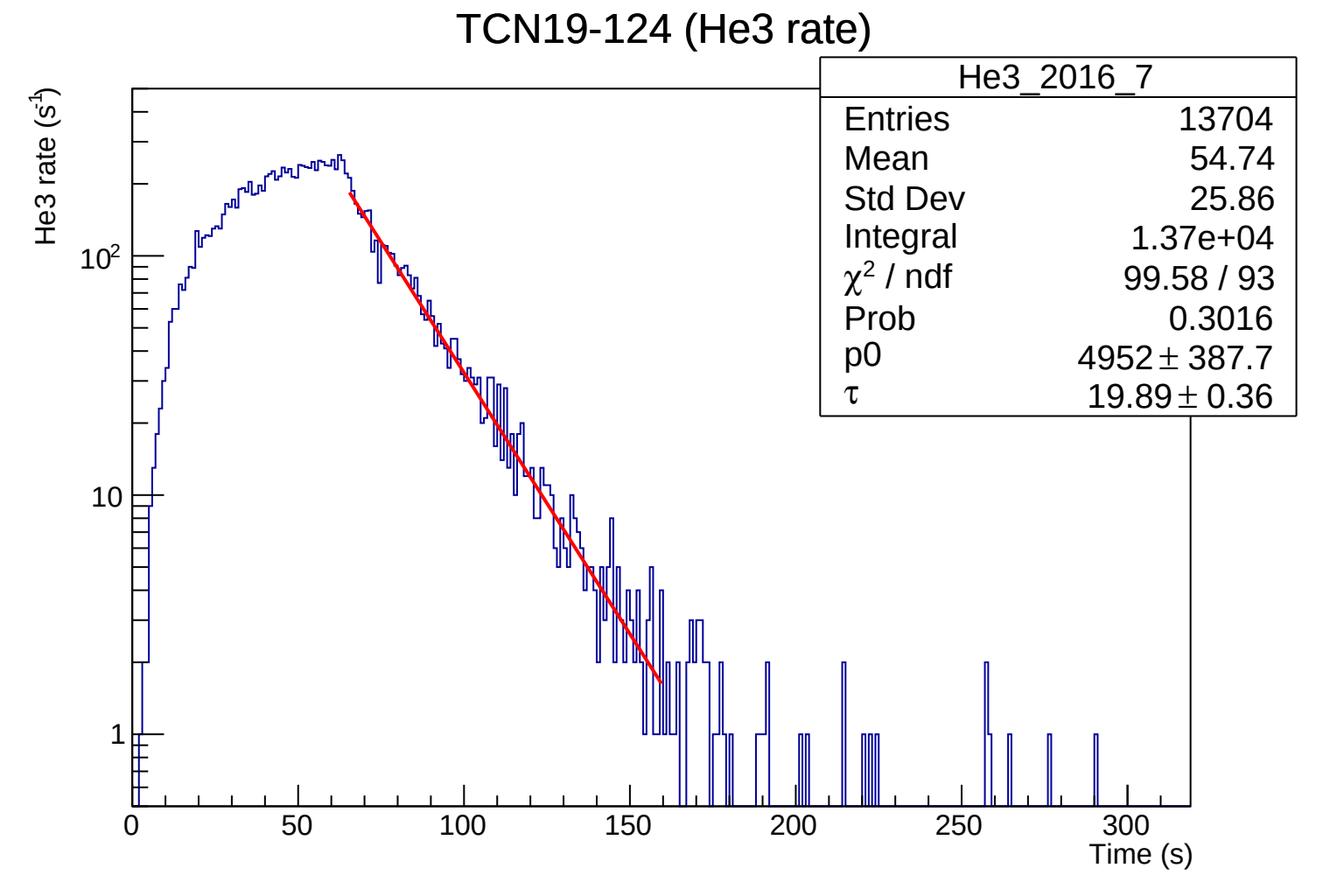

TCN19-124 (He3 rate)
He3_2016_1
Entries 13575
Mean 54.56
Std Dev 25.83
Integral 1.358e+04
χ² / ndf 97.78 / 91
Prob 0.2947
p0 6074 ± 519.9
τ 18.92 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

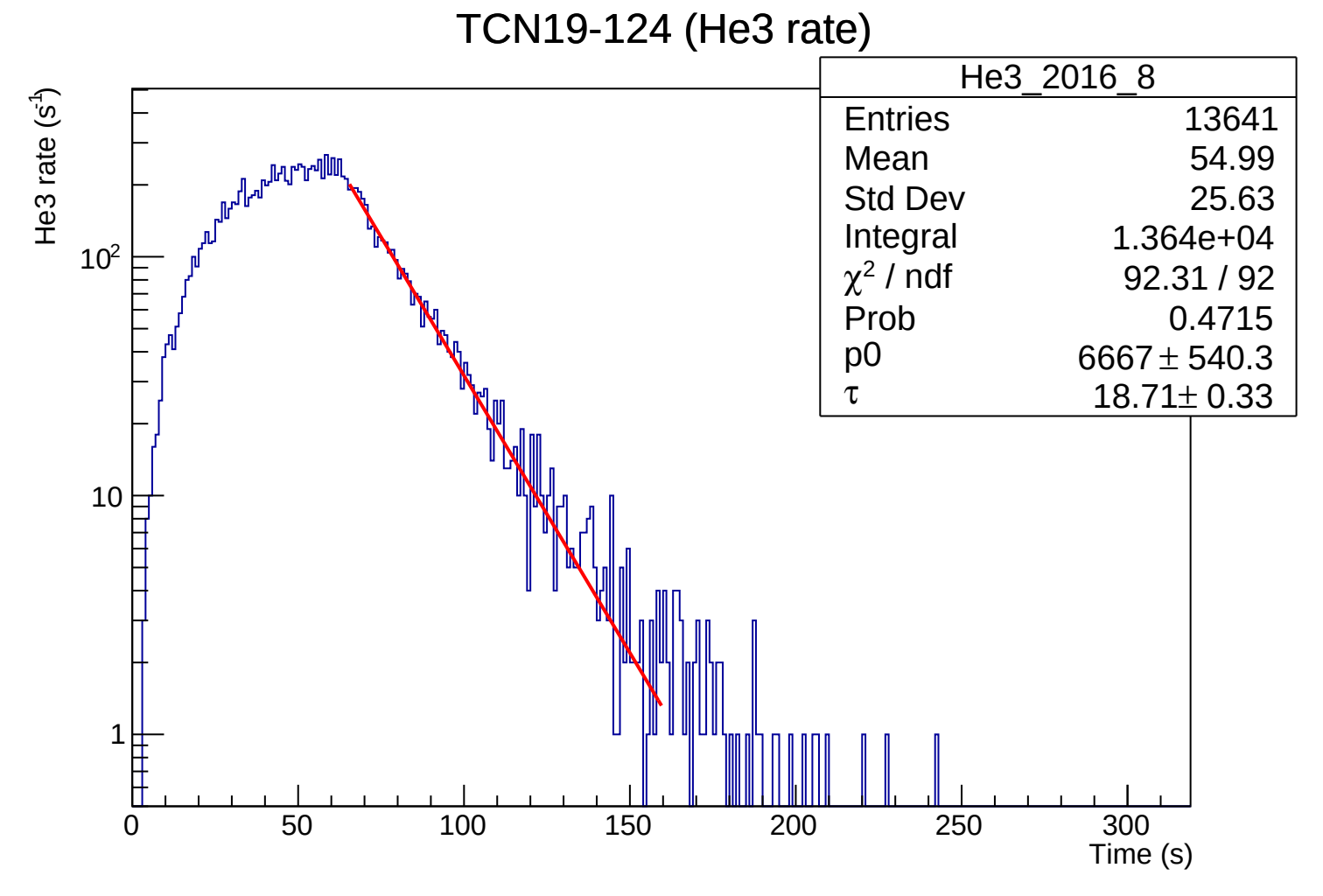

TCN19-124 (He3 rate)
He3_2016_2
Entries 13522
Mean 54.88
Std Dev 25.82
Integral 1.352e+04
χ² / ndf 85.68 / 92
Prob 0.6656
p0 6007 ± 500.4
τ 19.05 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

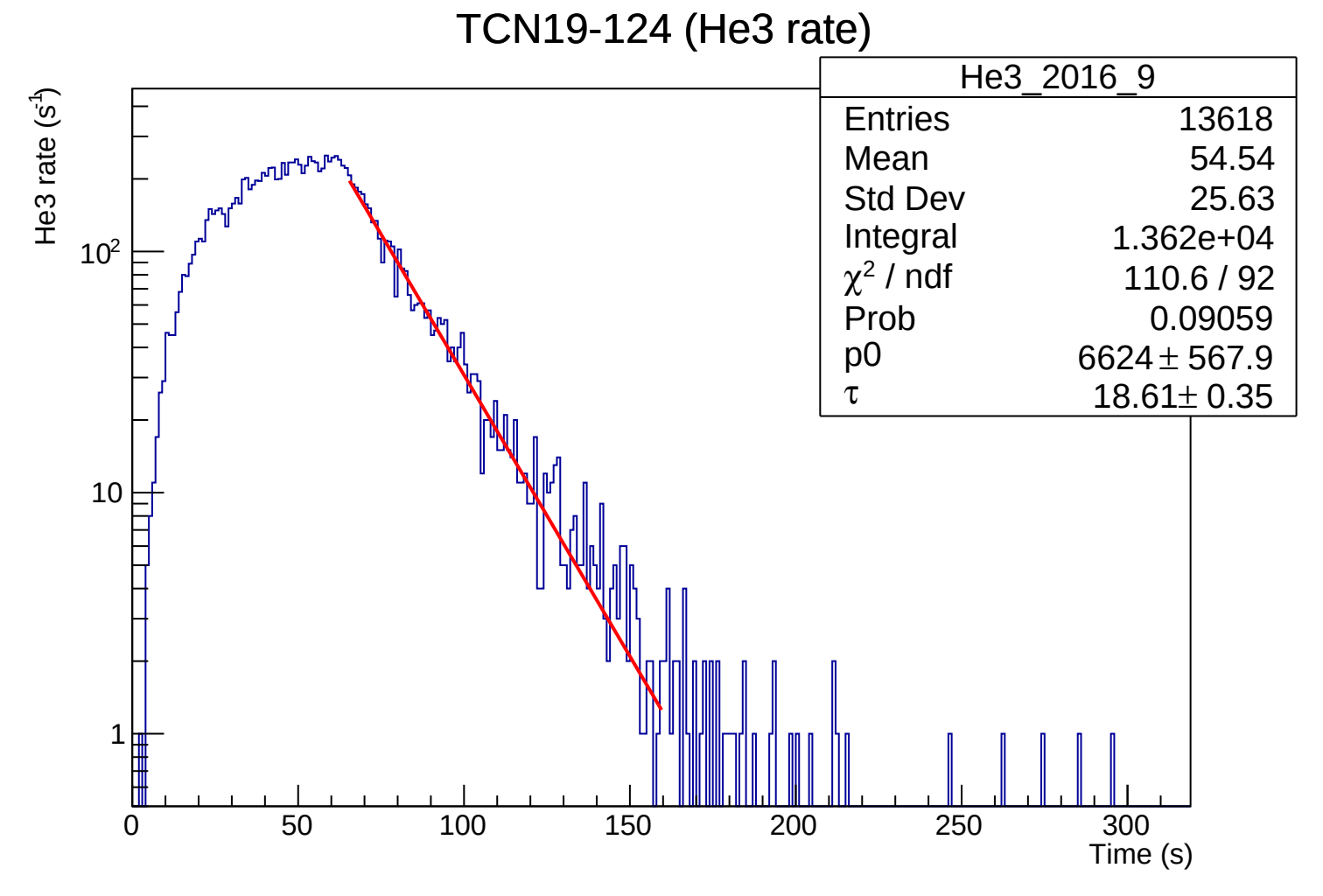

TCN19-124 (He3 rate)
He3_2016_4
Entries 13668
Mean 55.02
Std Dev 26.07
Integral 1.367e+04
χ² / ndf 101.3 / 92
Prob 0.2386
p0 5699 ± 467.1
τ 19.25 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

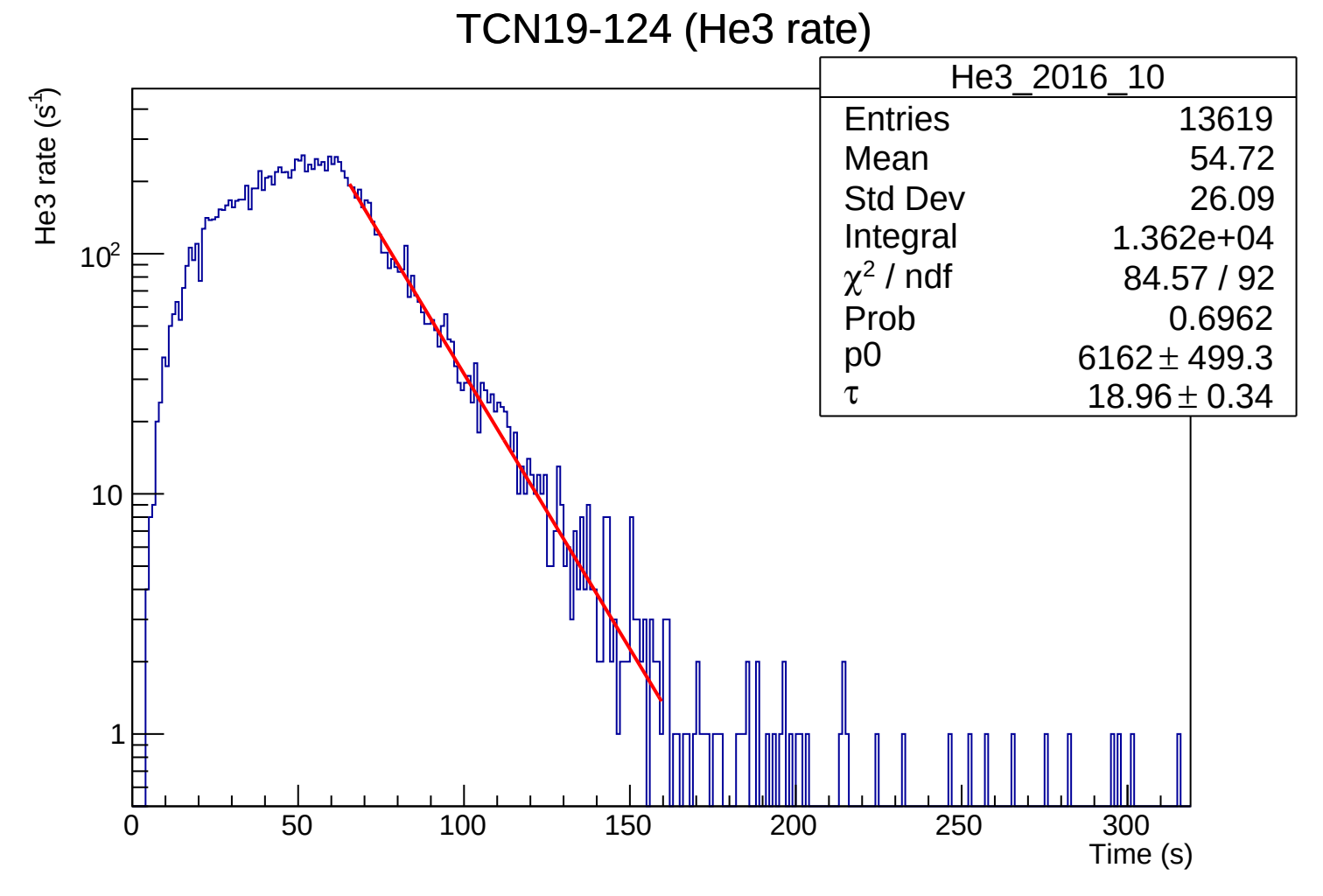

TCN19-124 (He3 rate)
He3_2016_5
Entries 13824
Mean 54.79
Std Dev 25.7
Integral 1.382e+04
χ² / ndf 105 / 92
Prob 0.1667
p0 7232 ± 598.5
τ 18.41 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

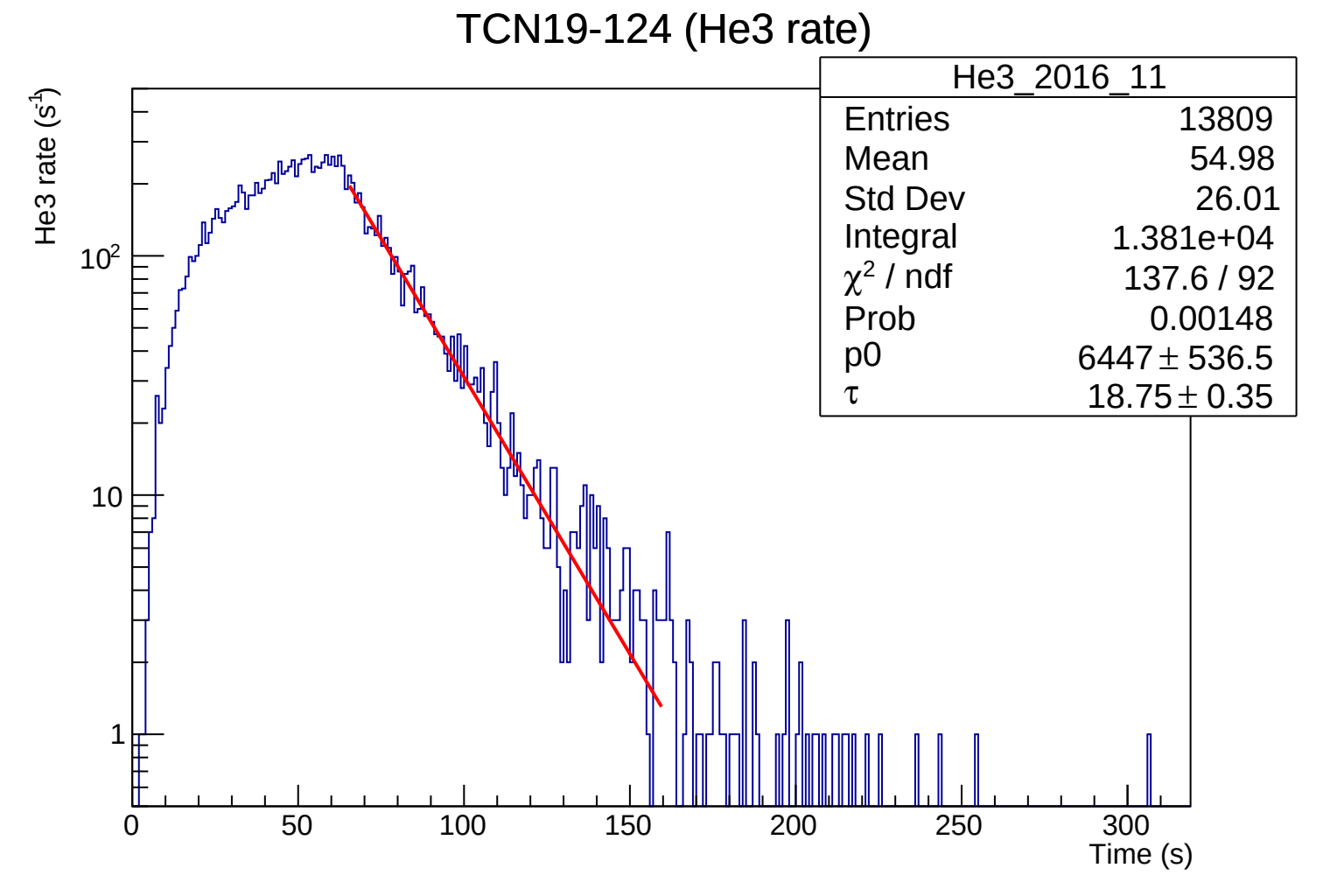

TCN19-124 (He3 rate)
He3_2016_6
Entries 13776
Mean 54.89
Std Dev 26.47
Integral 1.378e+04
χ² / ndf 102 / 91
Prob 0.2032
p0 5682 ± 480.8
τ 19.42 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

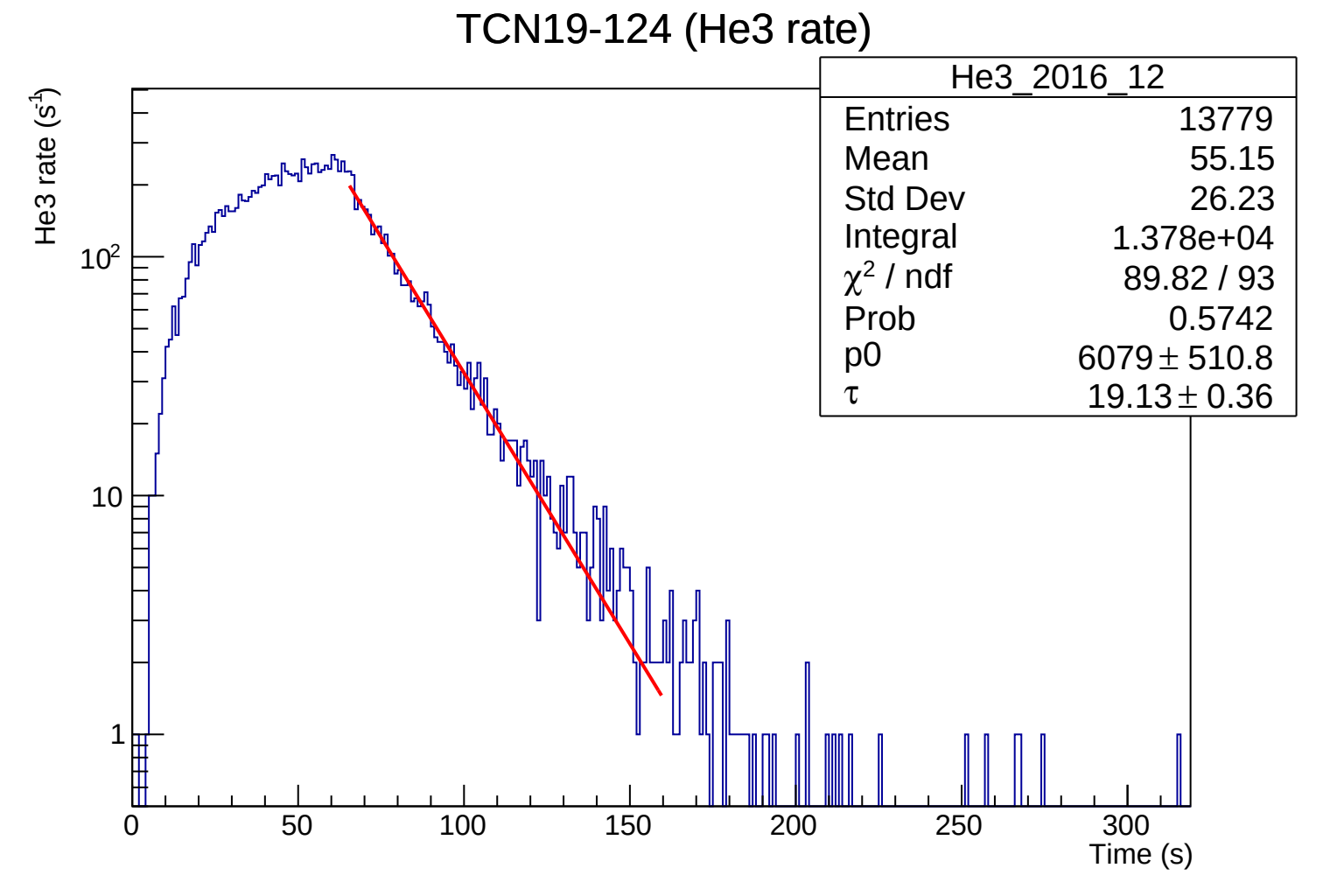

TCN19-124 (He3 rate)
He3_2016_7
Entries 13704
Mean 54.74
Std Dev 25.86
Integral 1.37e+04
χ² / ndf 99.58 / 93
Prob 0.3016
p0 4952 ± 387.7
τ 19.89 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

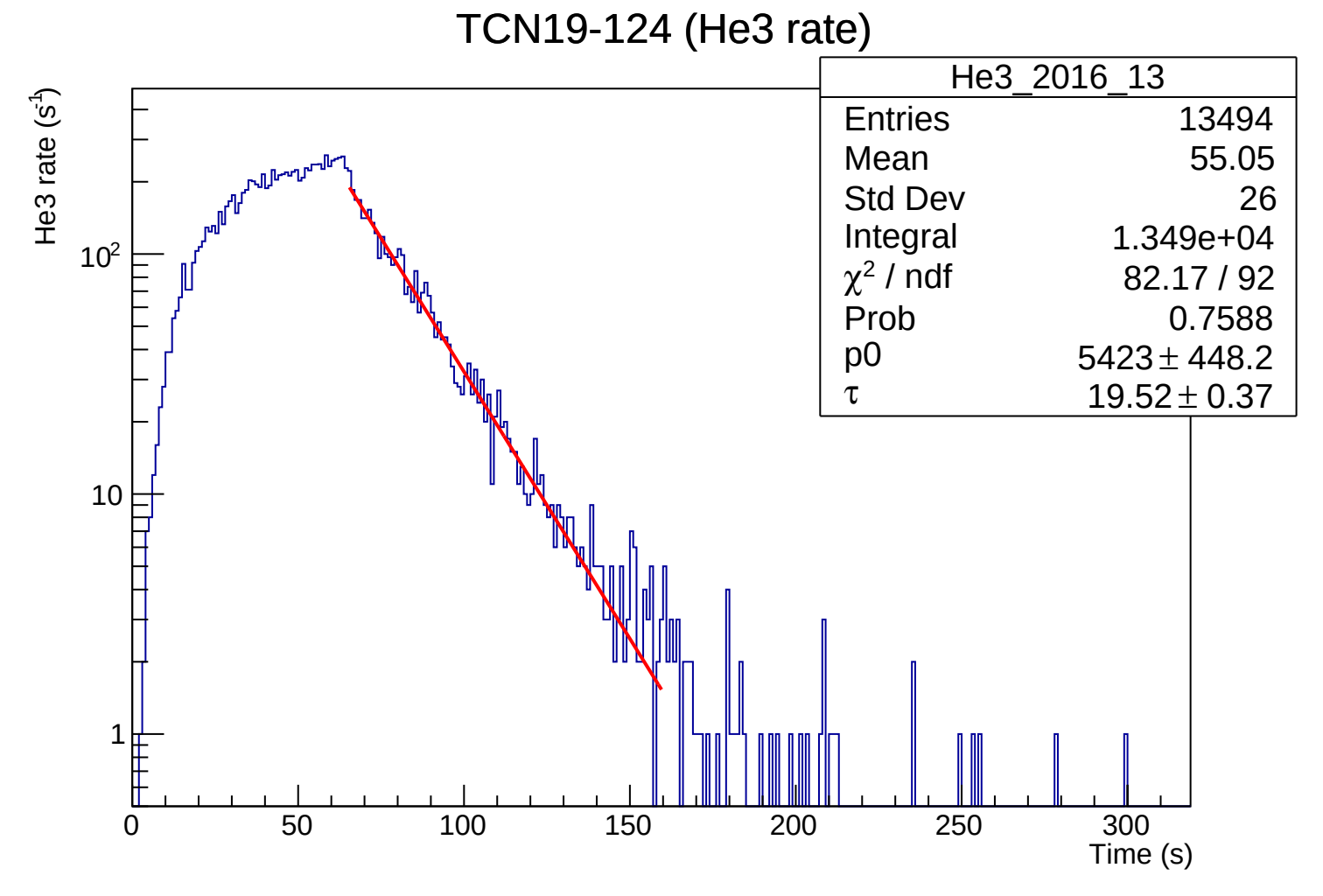

TCN19-124 (He3 rate)
He3_2016_8
Entries 13641
Mean 54.99
Std Dev 25.63
Integral 1.364e+04
χ² / ndf 92.31 / 92
Prob 0.4715
p0 6667 ± 540.3
τ 18.71 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

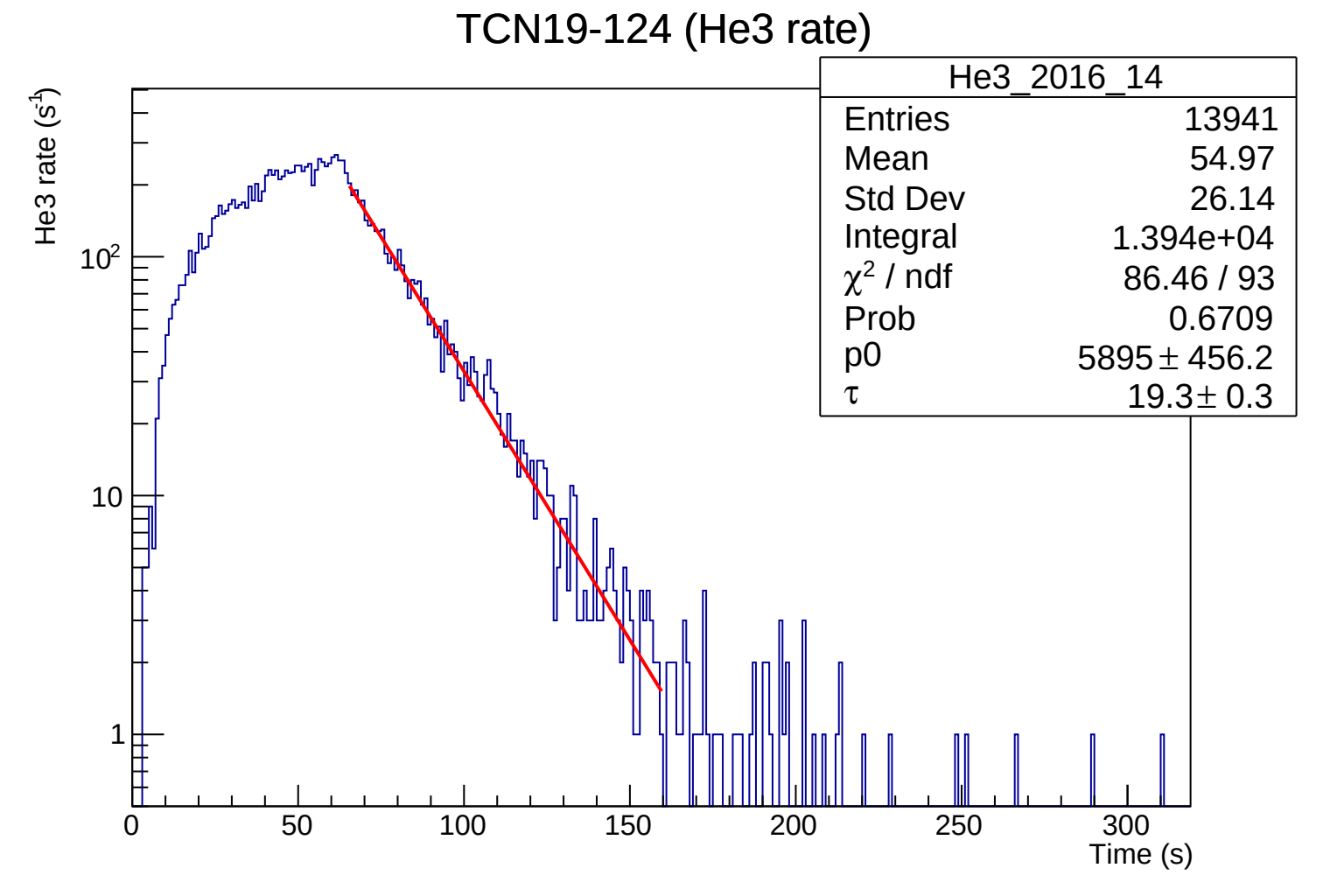

TCN19-124 (He3 rate)
He3_2016_9
Entries 13618
Mean 54.54
Std Dev 25.63
Integral 1.362e+04
χ² / ndf 110.6 / 92
Prob 0.09059
p0 6624 ± 567.9
τ 18.61 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

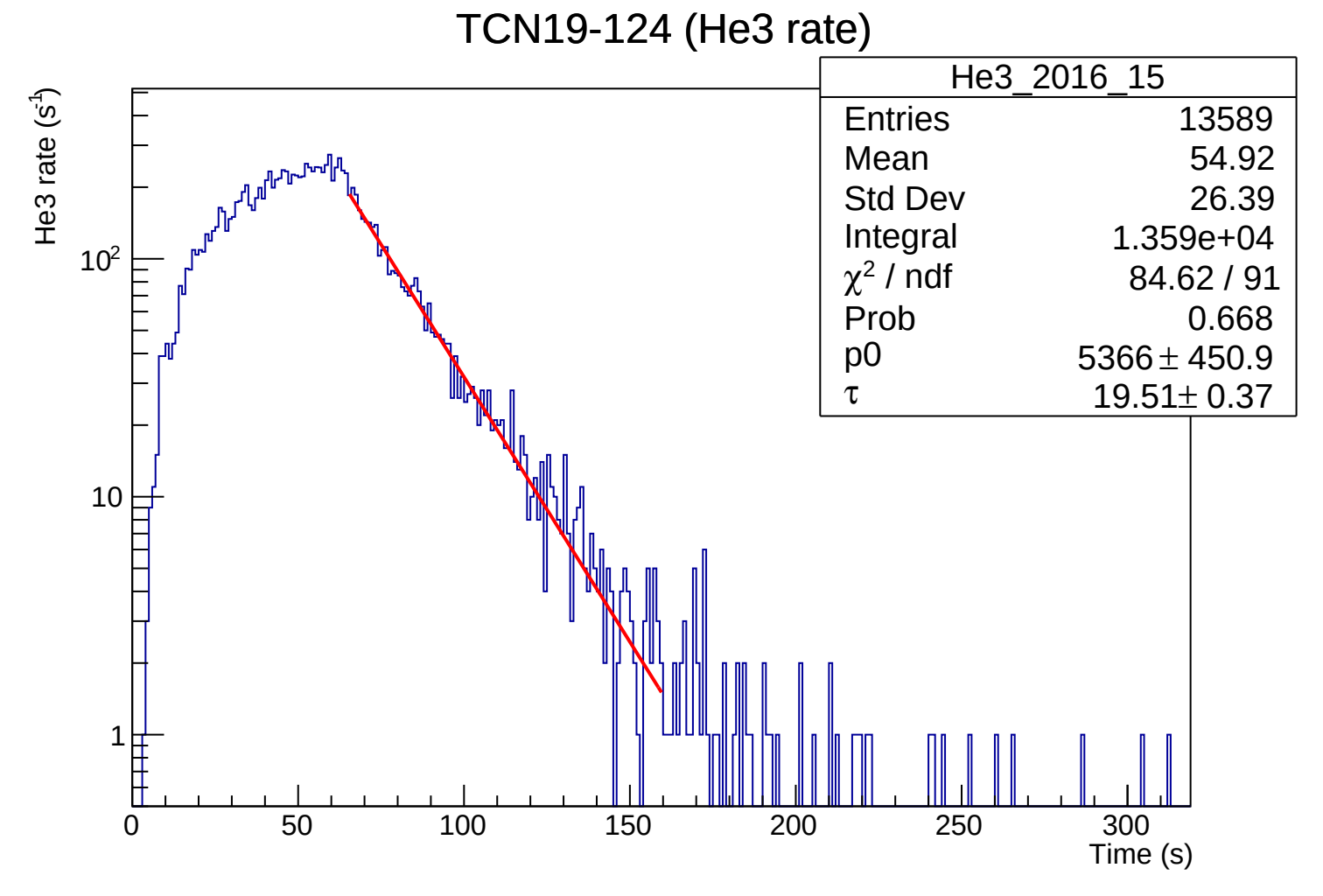

TCN19-124 (He3 rate)
He3_2016_10
Entries 13619
Mean 54.72
Std Dev 26.09
Integral 1.362e+04
χ² / ndf 84.57 / 92
Prob 0.6962
p0 6162 ± 499.3
τ 18.96 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

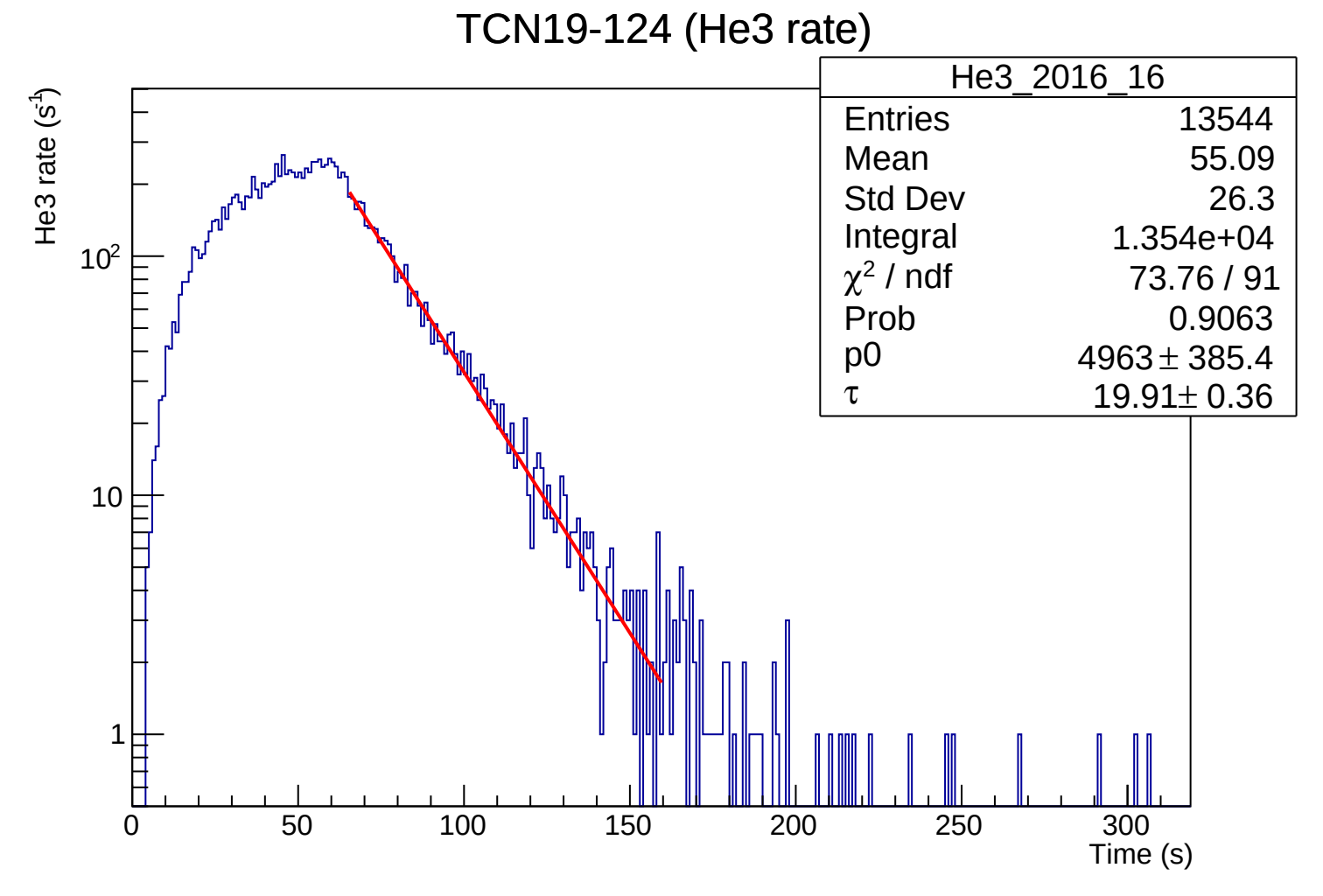

TCN19-124 (He3 rate)
He3_2016_11
Entries 13809
Mean 54.98
Std Dev 26.01
Integral 1.381e+04
χ² / ndf 137.6 / 92
Prob 0.00148
p0 6447 ± 536.5
τ 18.75 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

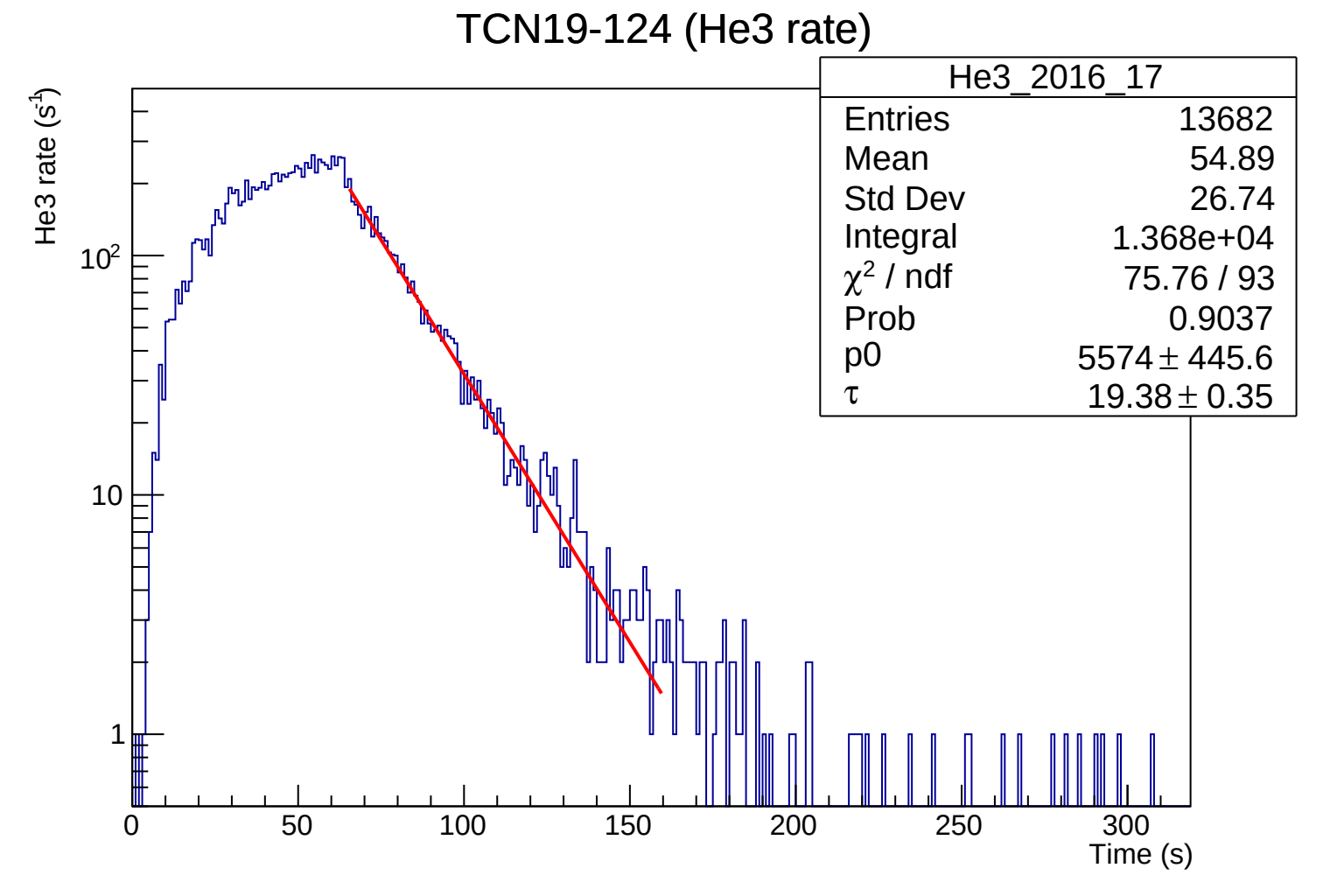

TCN19-124 (He3 rate)
He3_2016_12
Entries 13779
Mean 55.15
Std Dev 26.23
Integral 1.378e+04
χ² / ndf 89.82 / 93
Prob 0.5742
p0 6079 ± 510.8
τ 19.13 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

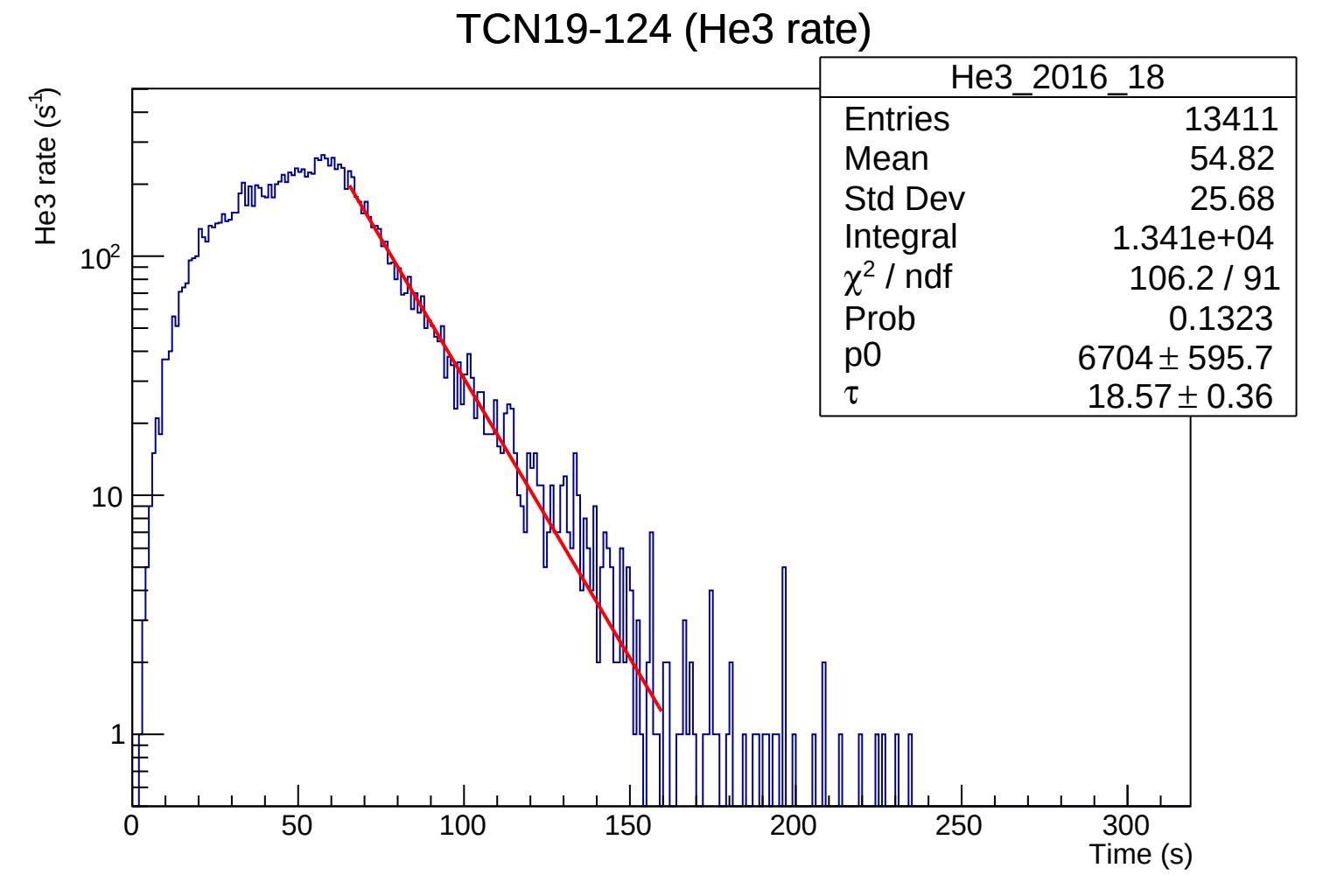

TCN19-124 (He3 rate)
He3_2016_13
Entries 13494
Mean 55.05
Std Dev 26
Integral 1.349e+04
χ² / ndf 82.17 / 92
Prob 0.7588
p0 5423 ± 448.2
τ 19.52 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

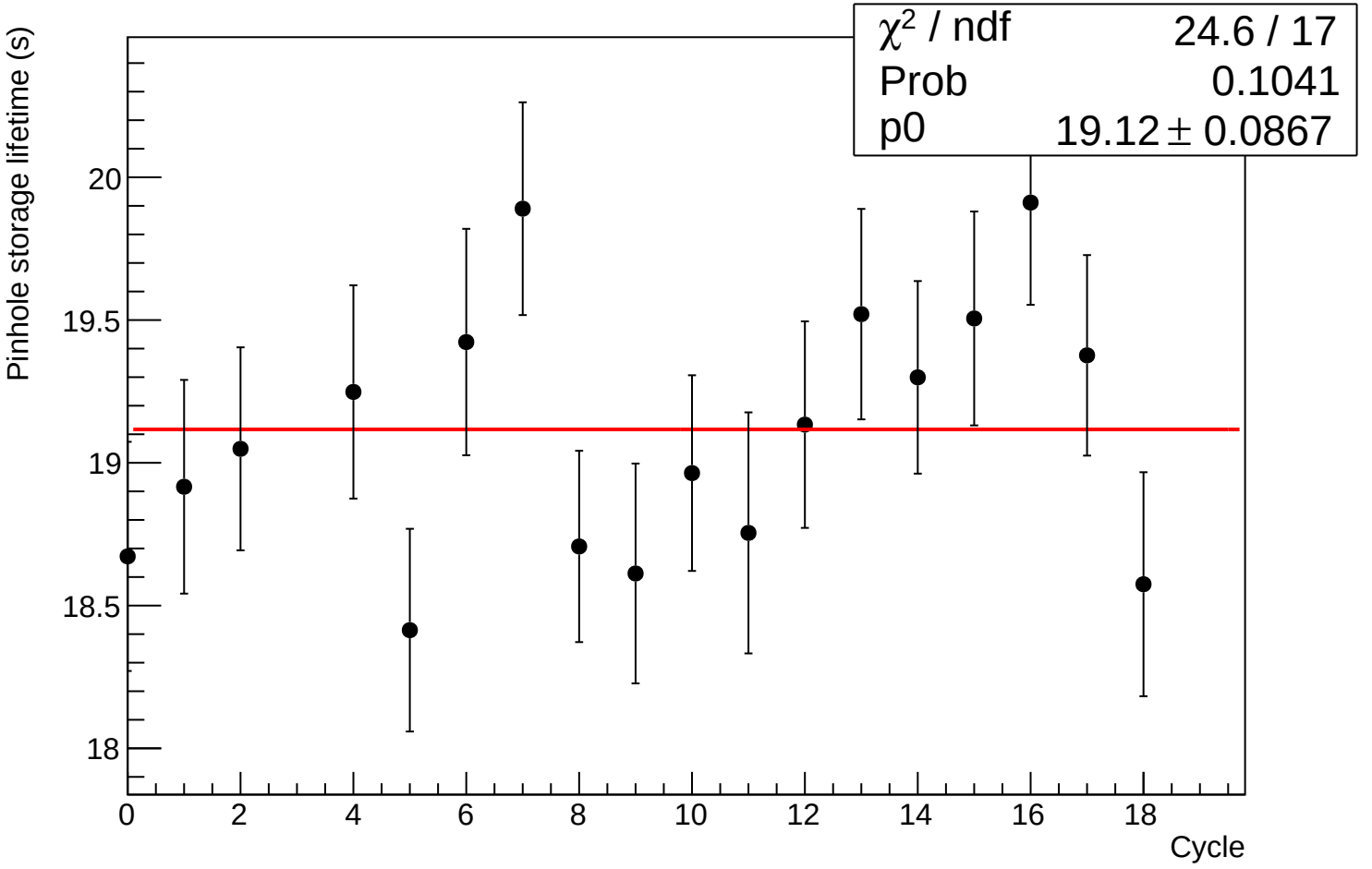

TCN19-124 (He3 rate)
He3_2016_14
Entries 13941
Mean 54.97
Std Dev 26.14
Integral 1.394e+04
χ² / ndf 86.46 / 93
Prob 0.6709
p0 5895 ± 456.2
τ 19.3 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

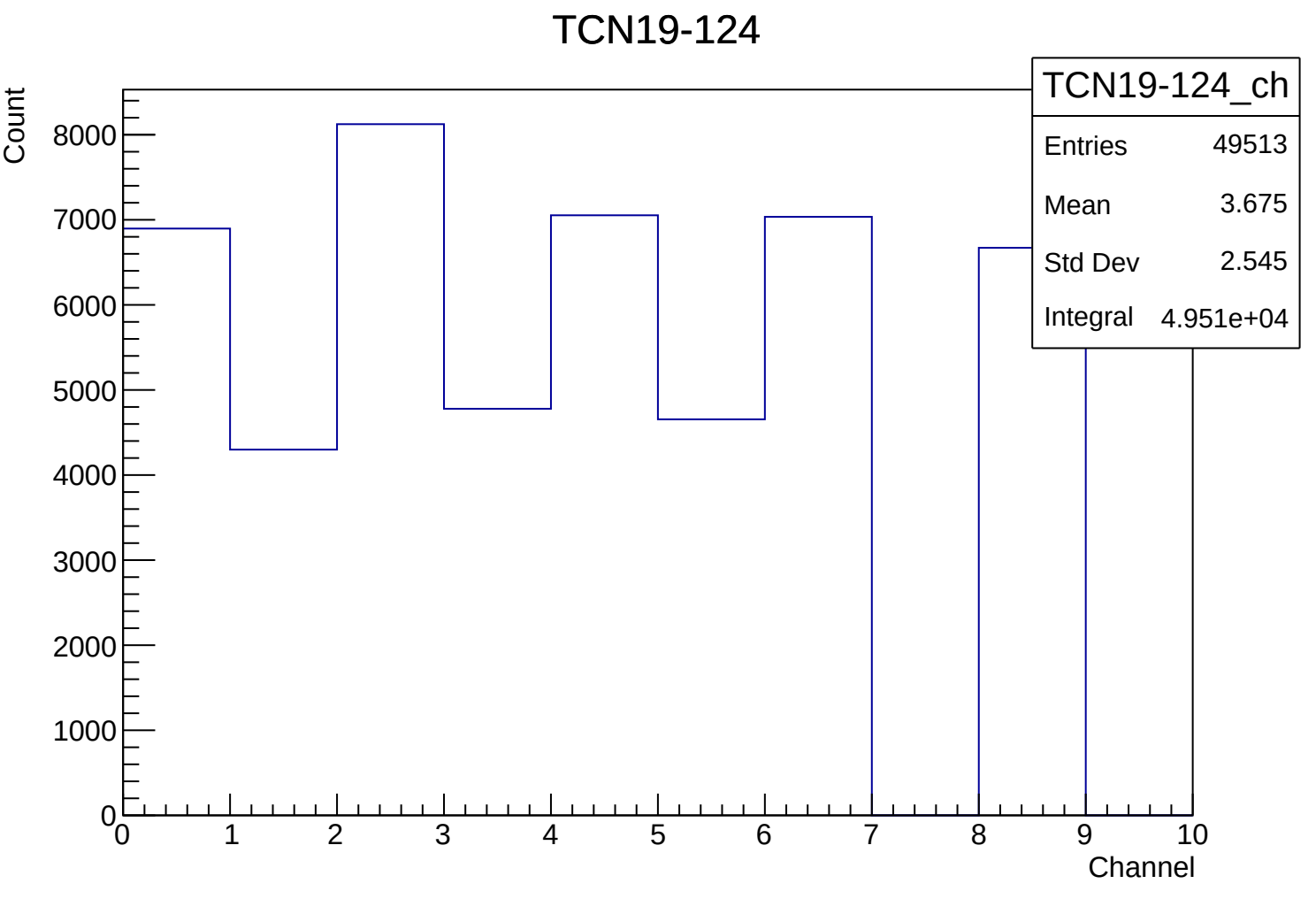

TCN19-124 (He3 rate)
He3_2016_15
Entries 13589
Mean 54.92
Std Dev 26.39
Integral 1.359e+04
χ² / ndf 84.62 / 91
Prob 0.668
p0 5366 ± 450.9
τ 19.51 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-124 (He3 rate)
He3_2016_16
Entries 13544
Mean 55.09
Std Dev 26.3
Integral 1.354e+04
χ² / ndf 73.76 / 91
Prob 0.9063
p0 4963 ± 385.4
τ 19.91 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-124 (He3 rate)
He3_2016_17
Entries 13682
Mean 54.89
Std Dev 26.74
Integral 1.368e+04
χ² / ndf 75.76 / 93
Prob 0.9037
p0 5574 ± 445.6
τ 19.38 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-124 (He3 rate)
He3_2016_18
Entries 13411
Mean 54.82
Std Dev 25.68
Integral 1.341e+04
χ² / ndf 106.2 / 91
Prob 0.1323
p0 6704 ± 595.7
τ 18.57 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


χ^2 / ndf 24.6 / 17
Prob 0.1041
p0 19.12 ± 0.0867
Pinhole storage lifetime (s)
20
19.5
19
18.5
18
0
2
4
6
8
10
12
14
16
18
Cycle


TCN19-124
TCN19-124_ch
Entries 49513
Mean 3.675
Std Dev 2.545
Integral 4.951e+04
Count
0
1000
2000
3000
4000
5000
6000
7000
8000
0
1
2
3
4
5
6
7
8
9
10
Channel