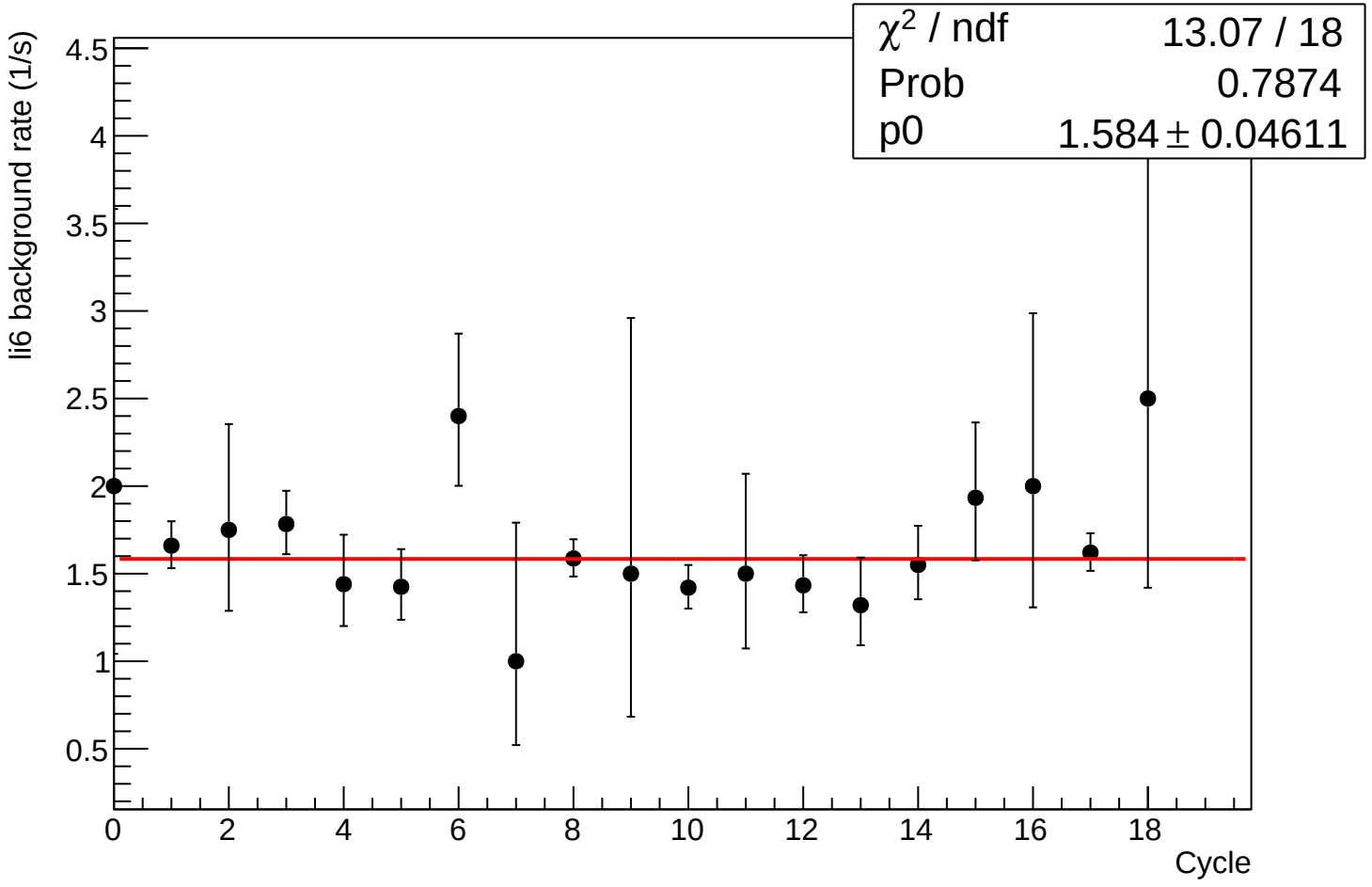
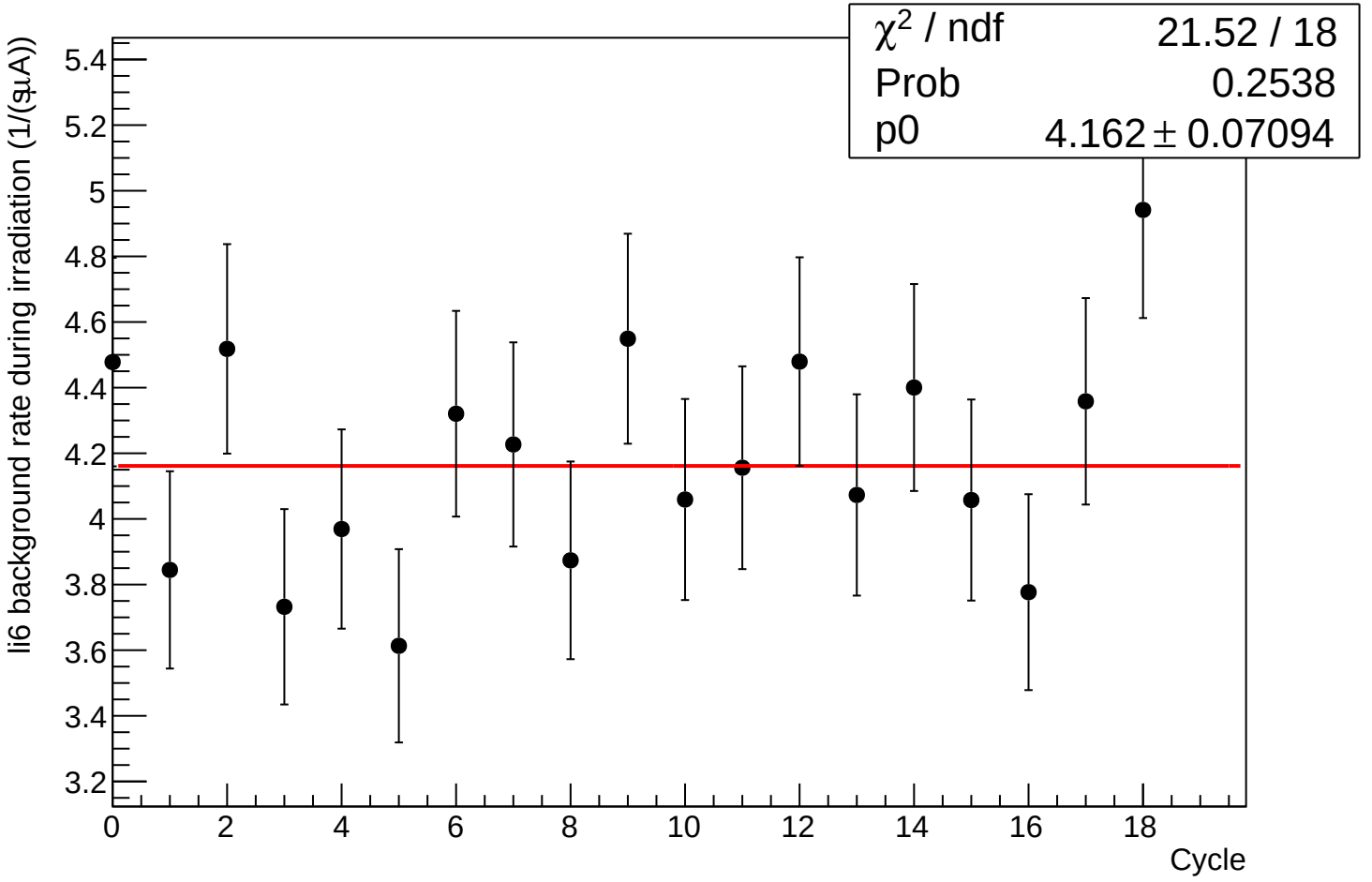
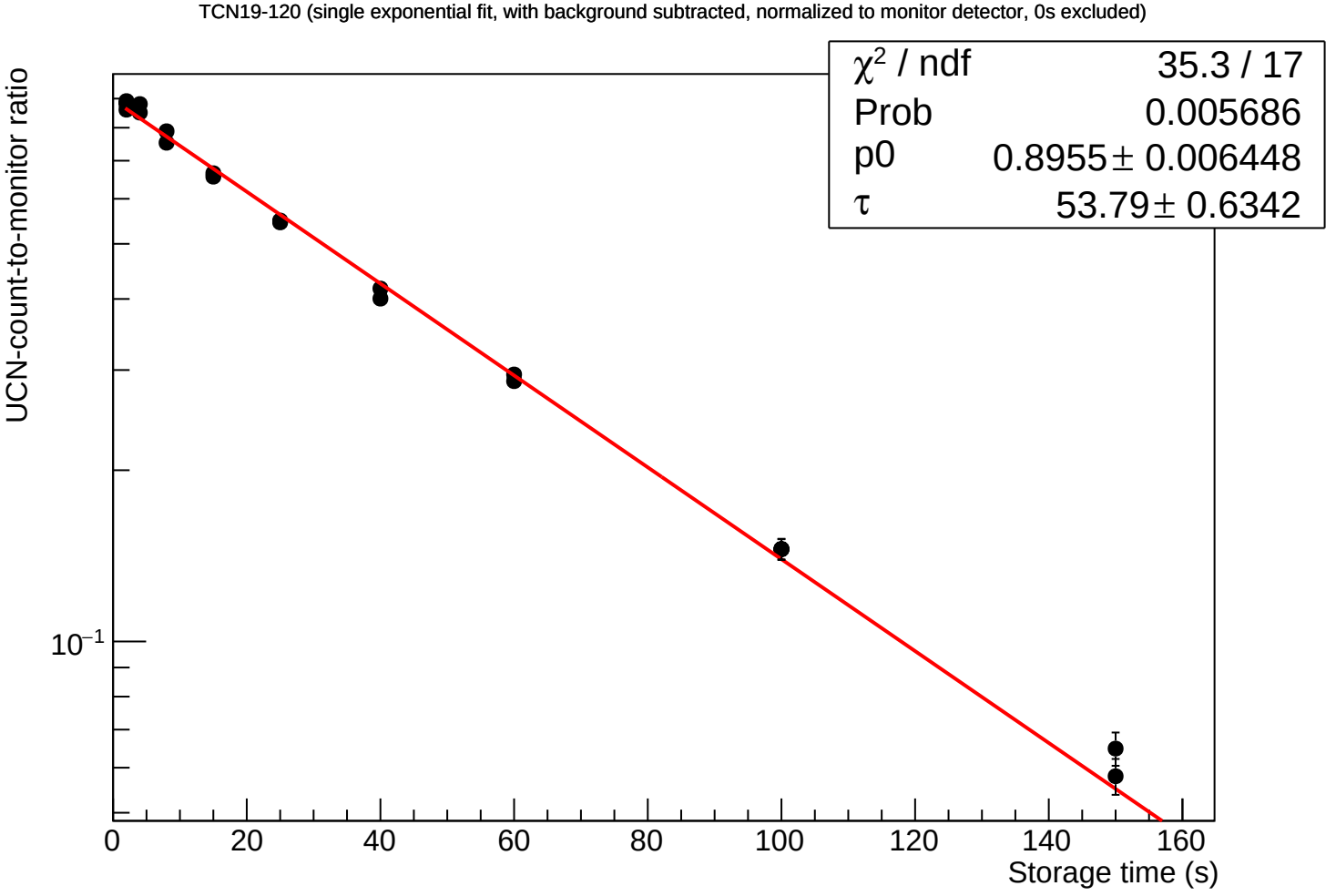
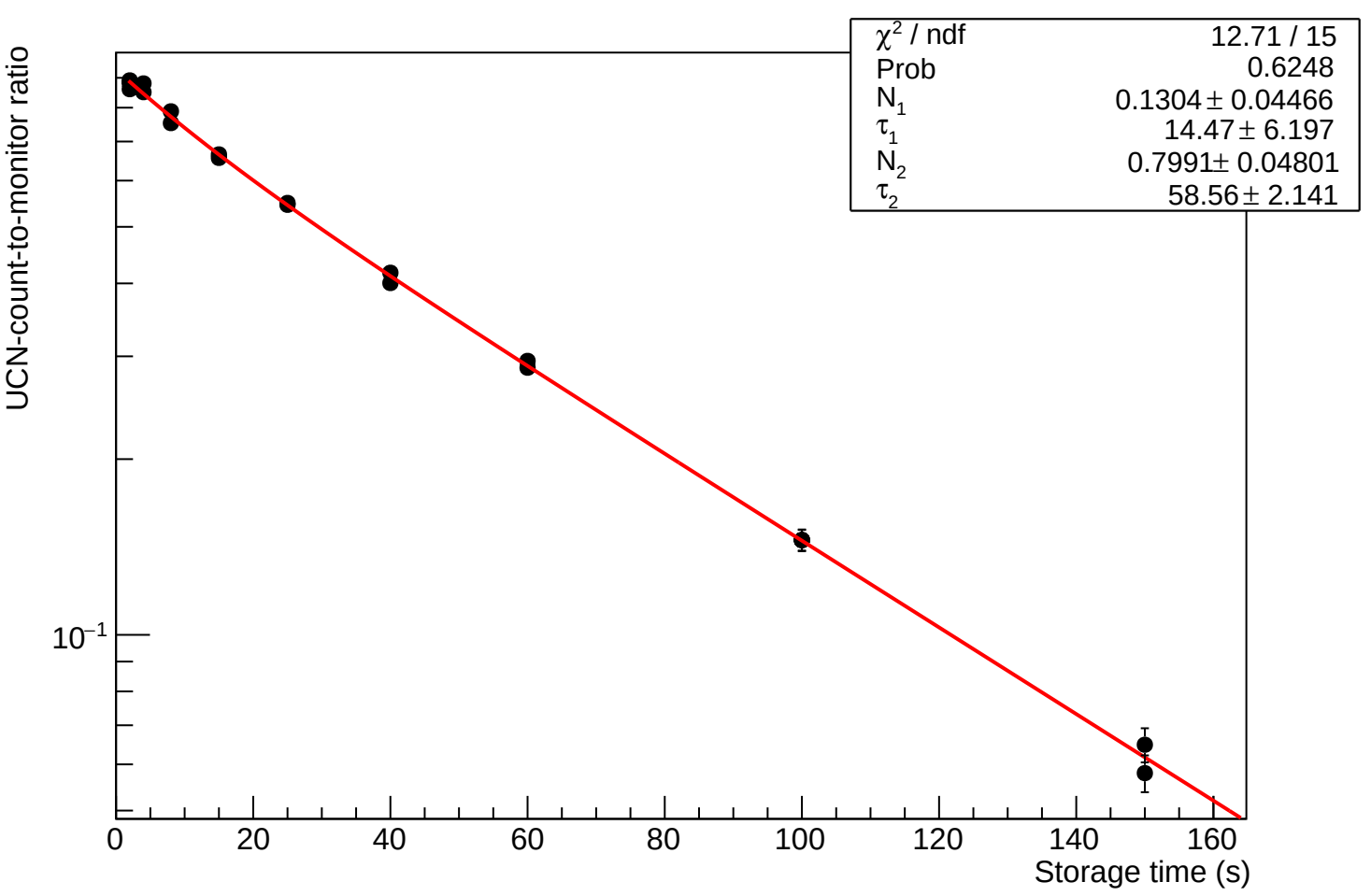
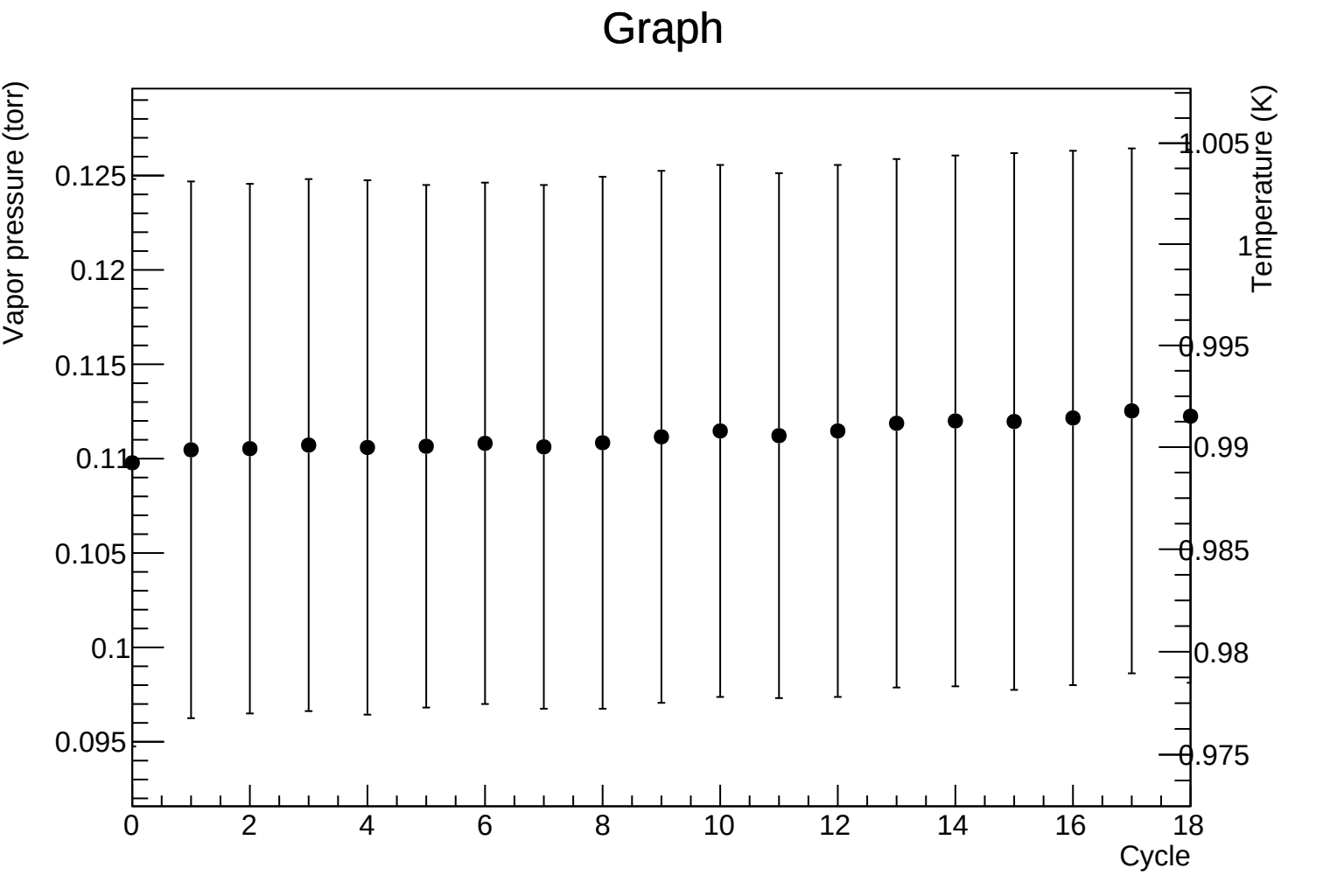
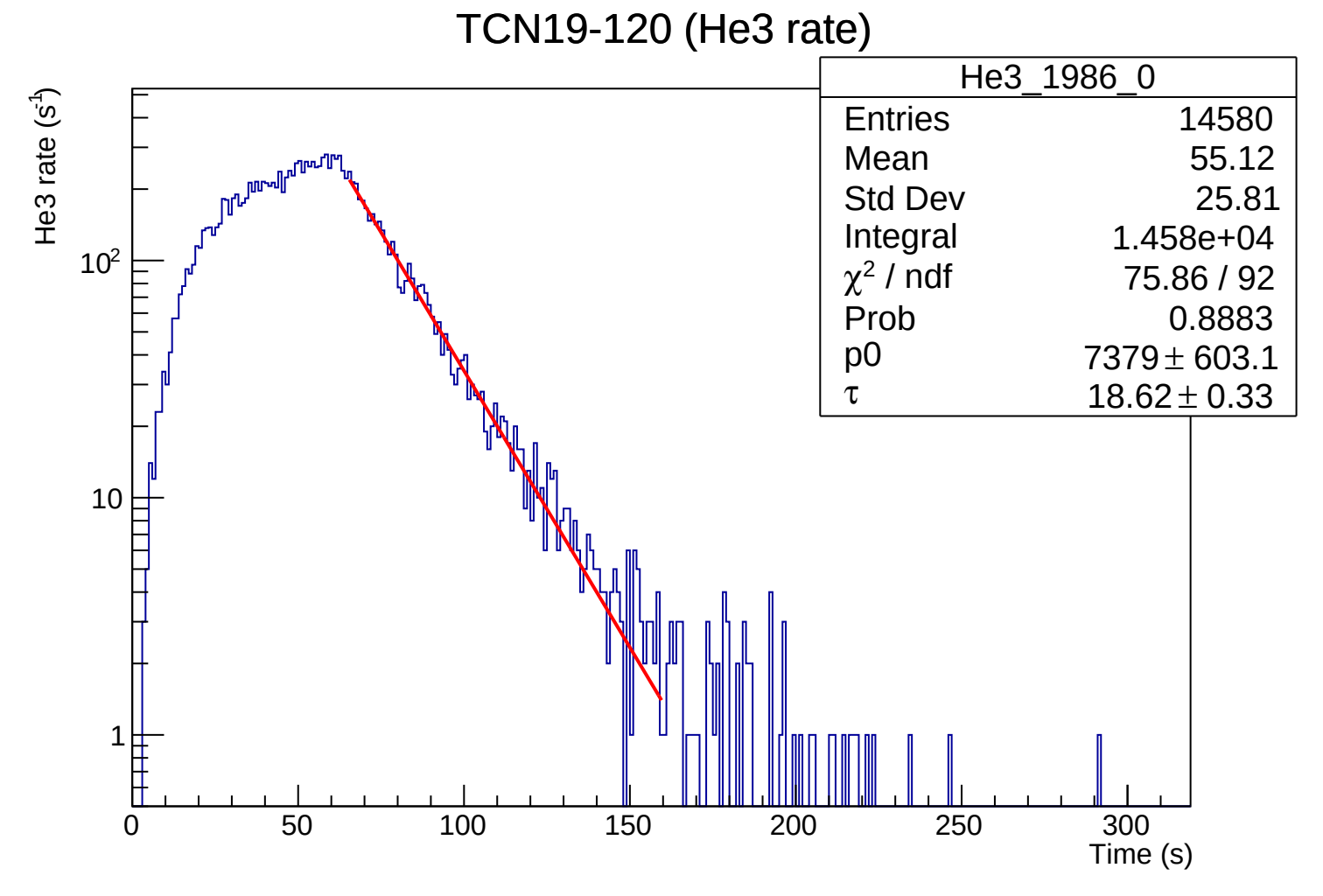

χ^2 / ndf 13.07 / 18
Prob 0.7874
p0 1.584 ± 0.04611
li6 background rate (1/s)
Cycle
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0
2
4
6
8
10
12
14
16
18

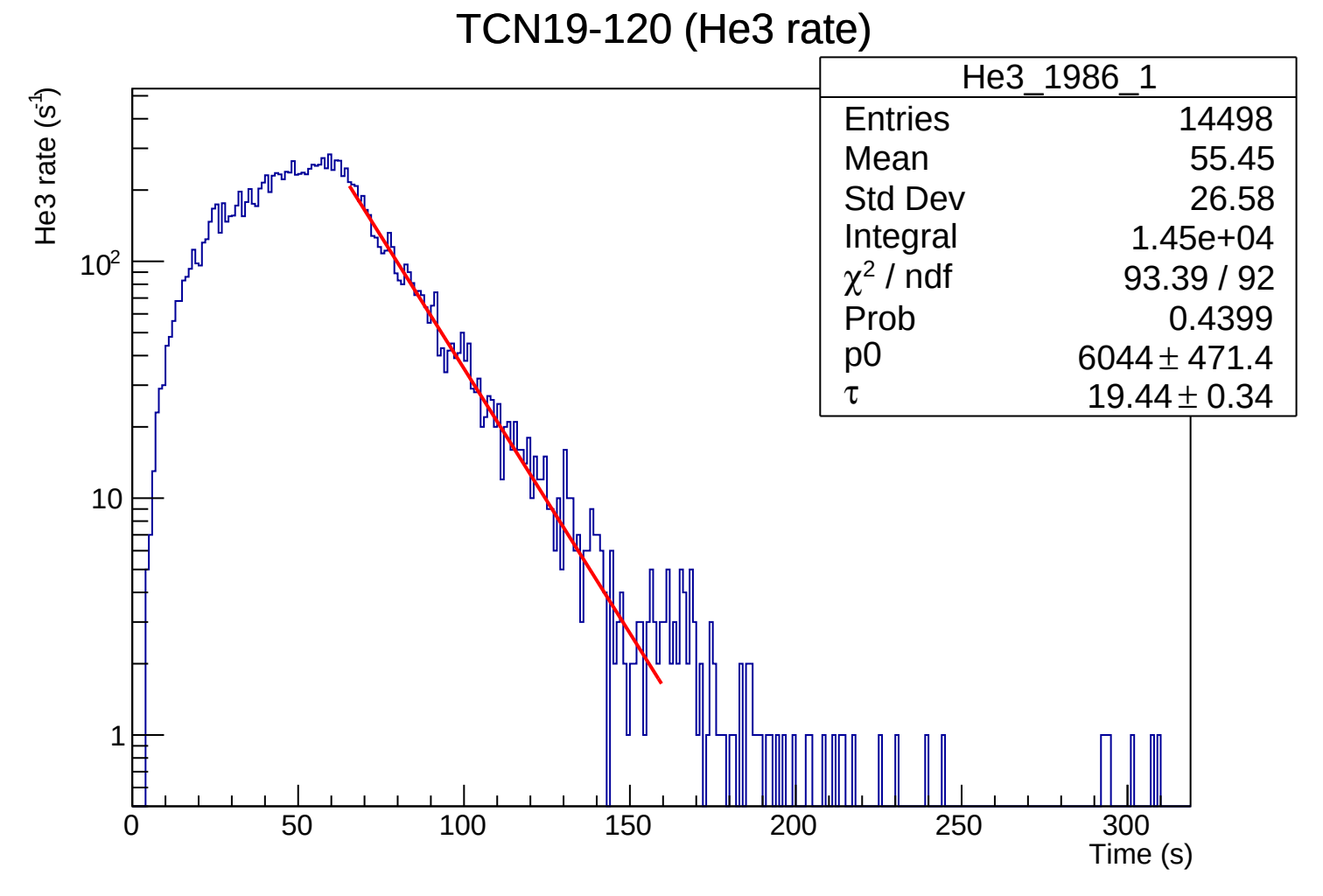

χ^2 / ndf 21.52 / 18
Prob 0.2538
p0 4.162 ± 0.07094
li6 background rate during irradiation (1/(μA))
Cycle
5.4
5.2
5
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
0
2
4
6
8
10
12
14
16
18

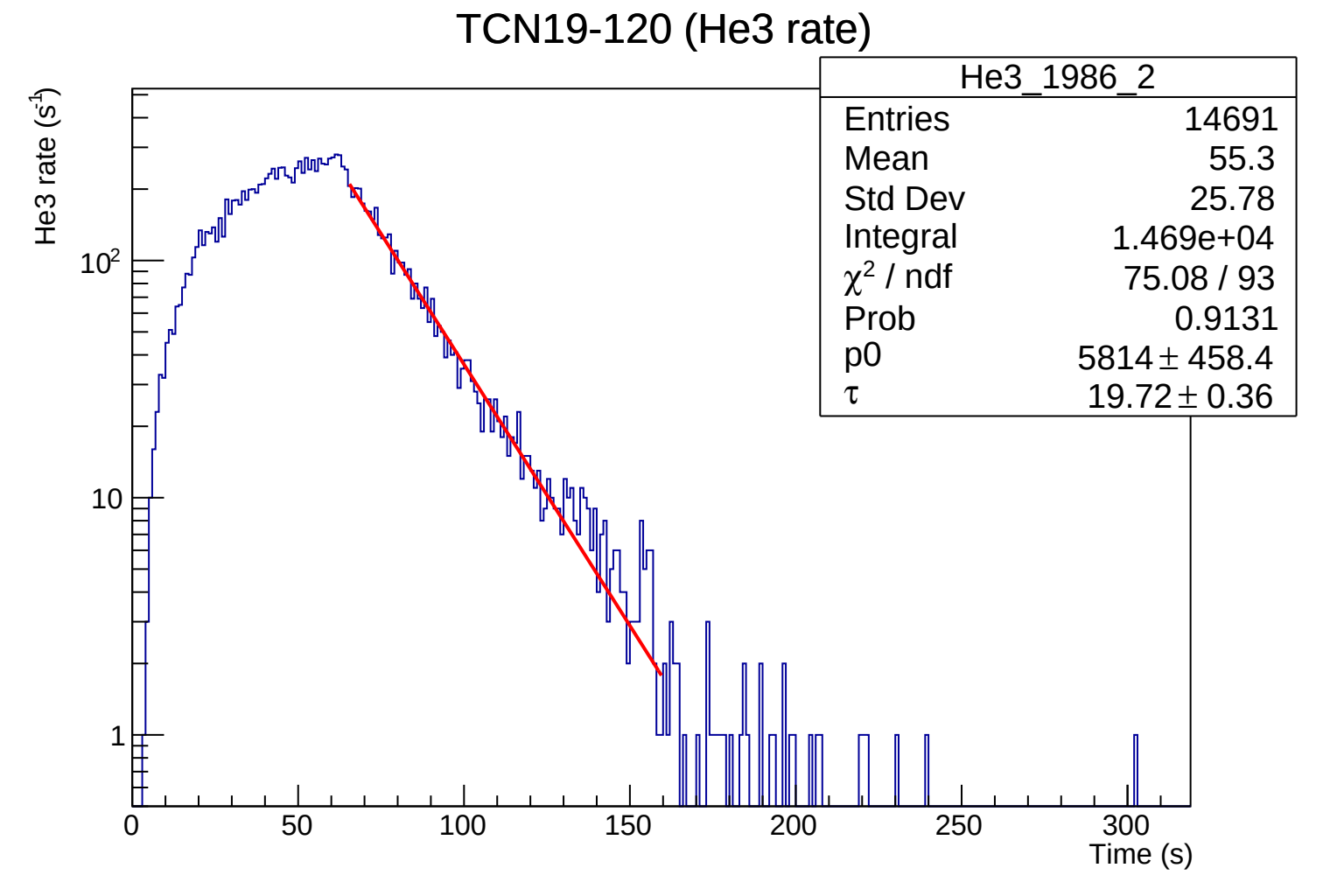

TCN19-120 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 35.3 / 17
Prob 0.005686
p0 0.8955 ± 0.006448
τ 53.79 ± 0.6342
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

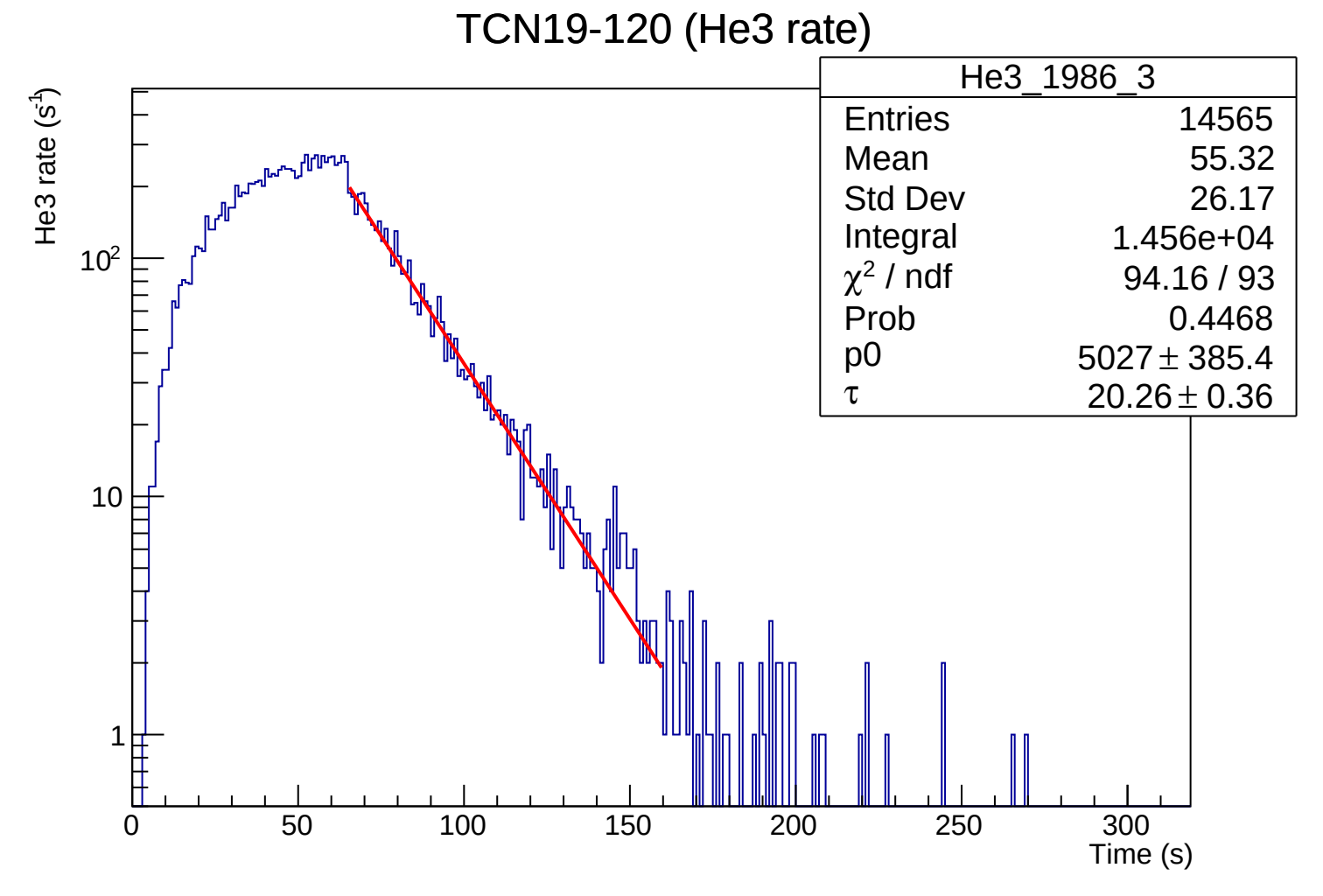

TCN19-120 (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 12.71 / 15
Prob 0.6248
N1 0.1304 ± 0.04466
τ1 14.47 ± 6.197
N2 0.7991 ± 0.04801
τ2 58.56 ± 2.141
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

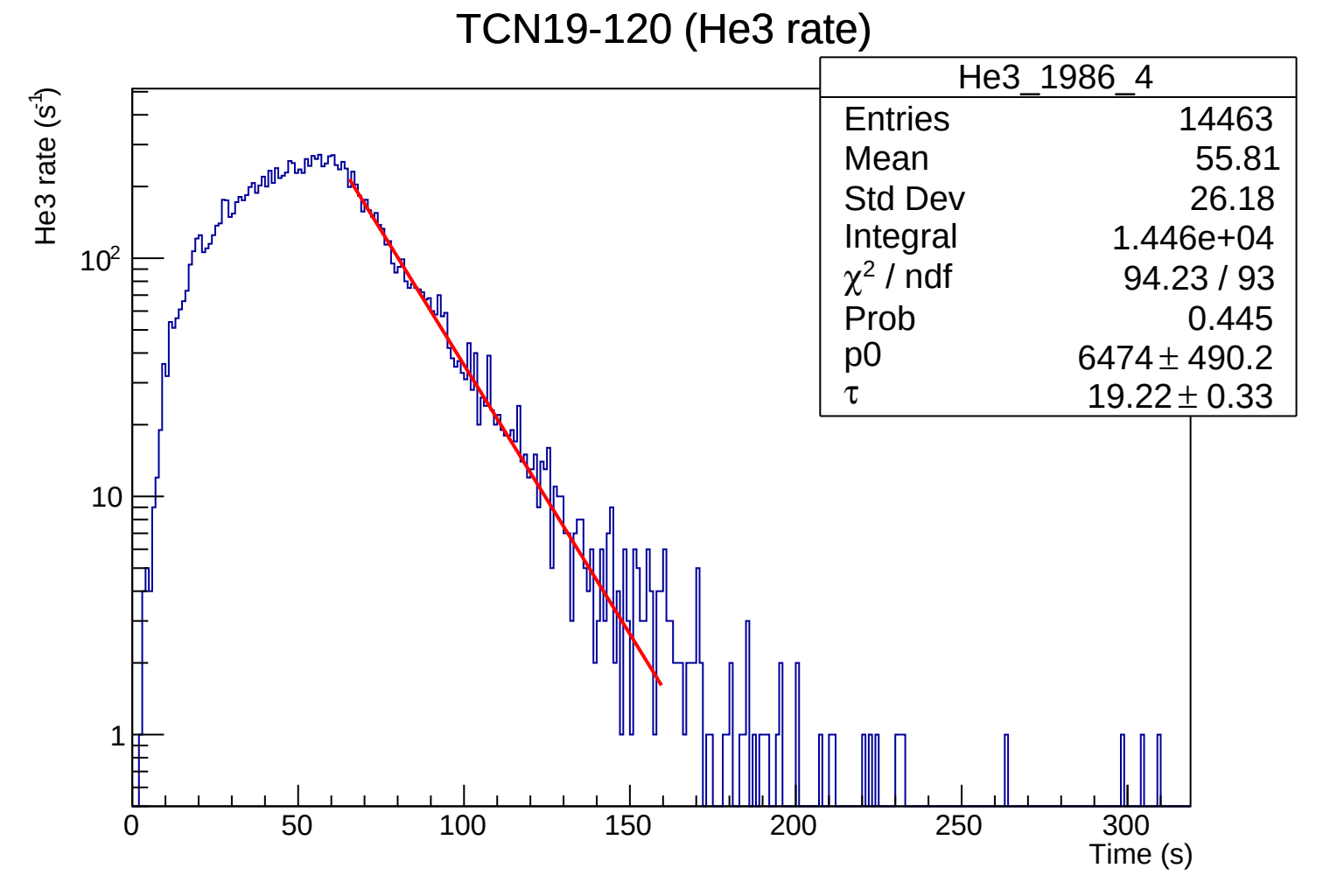

Graph
Vapor pressure (torr)
0.125
0.12
0.115
0.11
0.105
0.1
0.095
Temperature (K)
1.005
1
0.995
0.99
0.985
0.98
0.975
0
2
4
6
8
10
12
14
16
18
Cycle

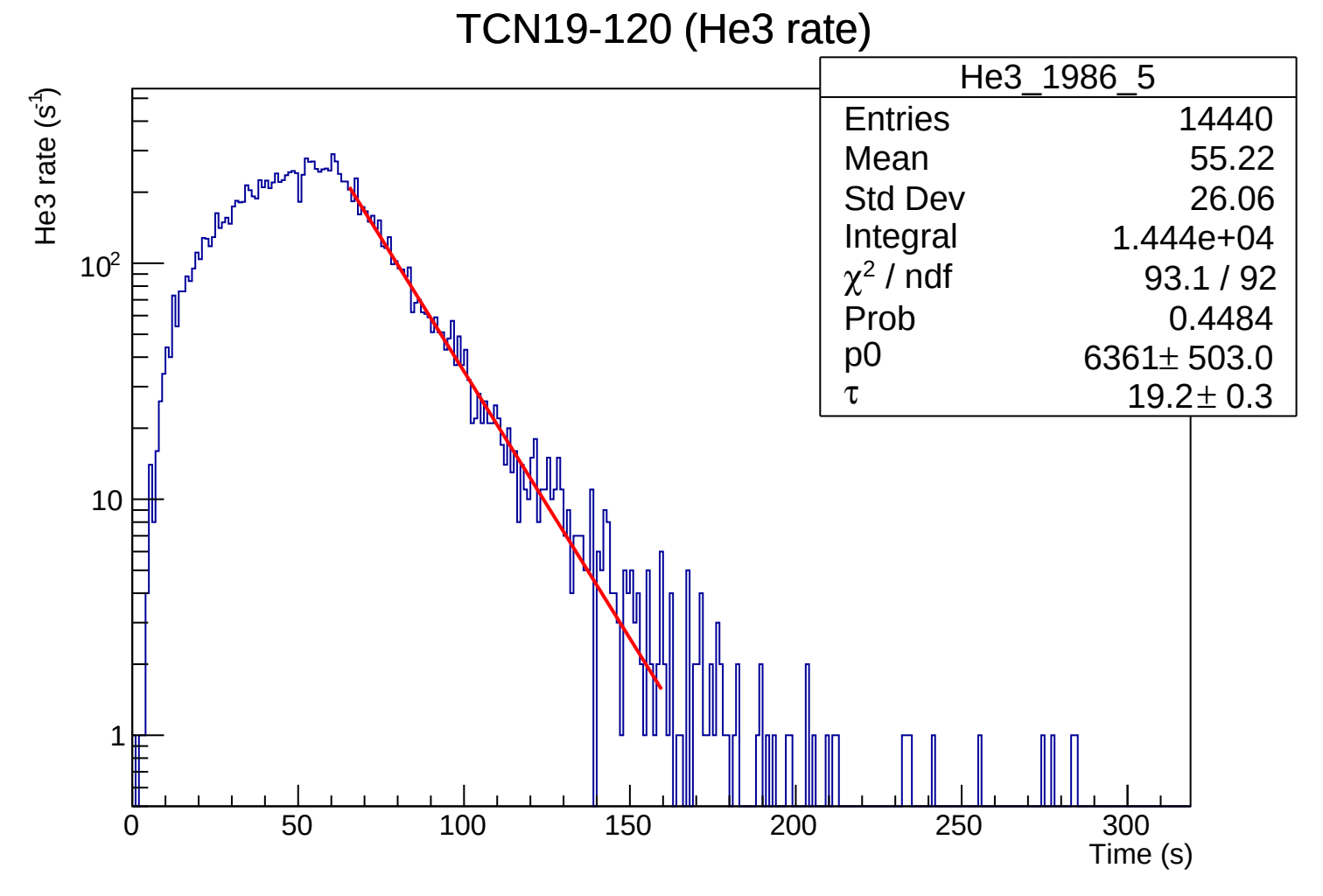

TCN19-120 (He3 rate)
He3_1986_0
Entries 14580
Mean 55.12
Std Dev 25.81
Integral 1.458e+04
χ² / ndf 75.86 / 92
Prob 0.8883
p0 7379 ± 603.1
τ 18.62 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

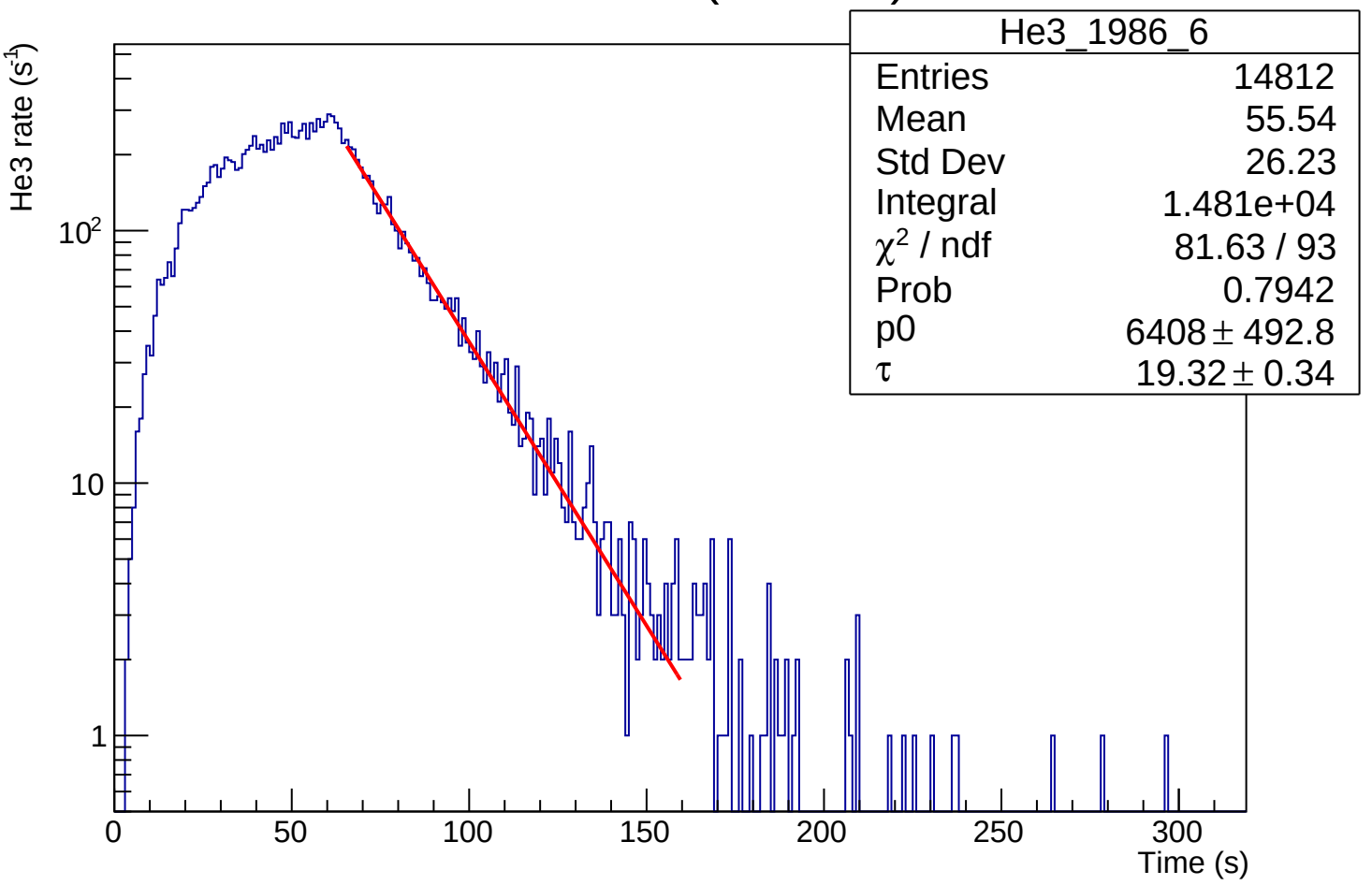

TCN19-120 (He3 rate)
He3_1986_1
Entries 14498
Mean 55.45
Std Dev 26.58
Integral 1.45e+04
χ² / ndf 93.39 / 92
Prob 0.4399
p0 6044 ± 471.4
τ 19.44 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

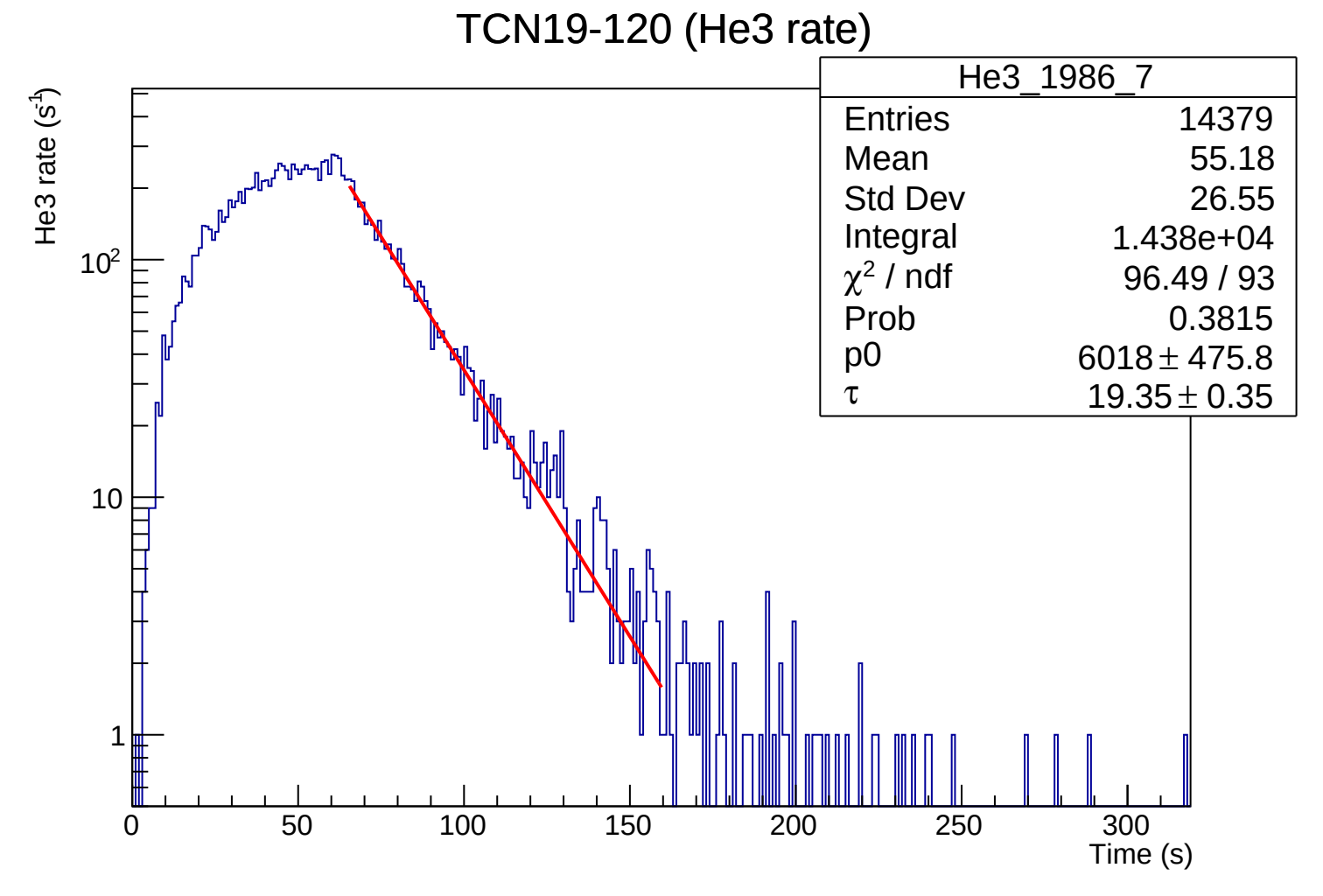

TCN19-120 (He3 rate)
He3_1986_2
Entries 14691
Mean 55.3
Std Dev 25.78
Integral 1.469e+04
χ² / ndf 75.08 / 93
Prob 0.9131
p0 5814 ± 458.4
τ 19.72 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

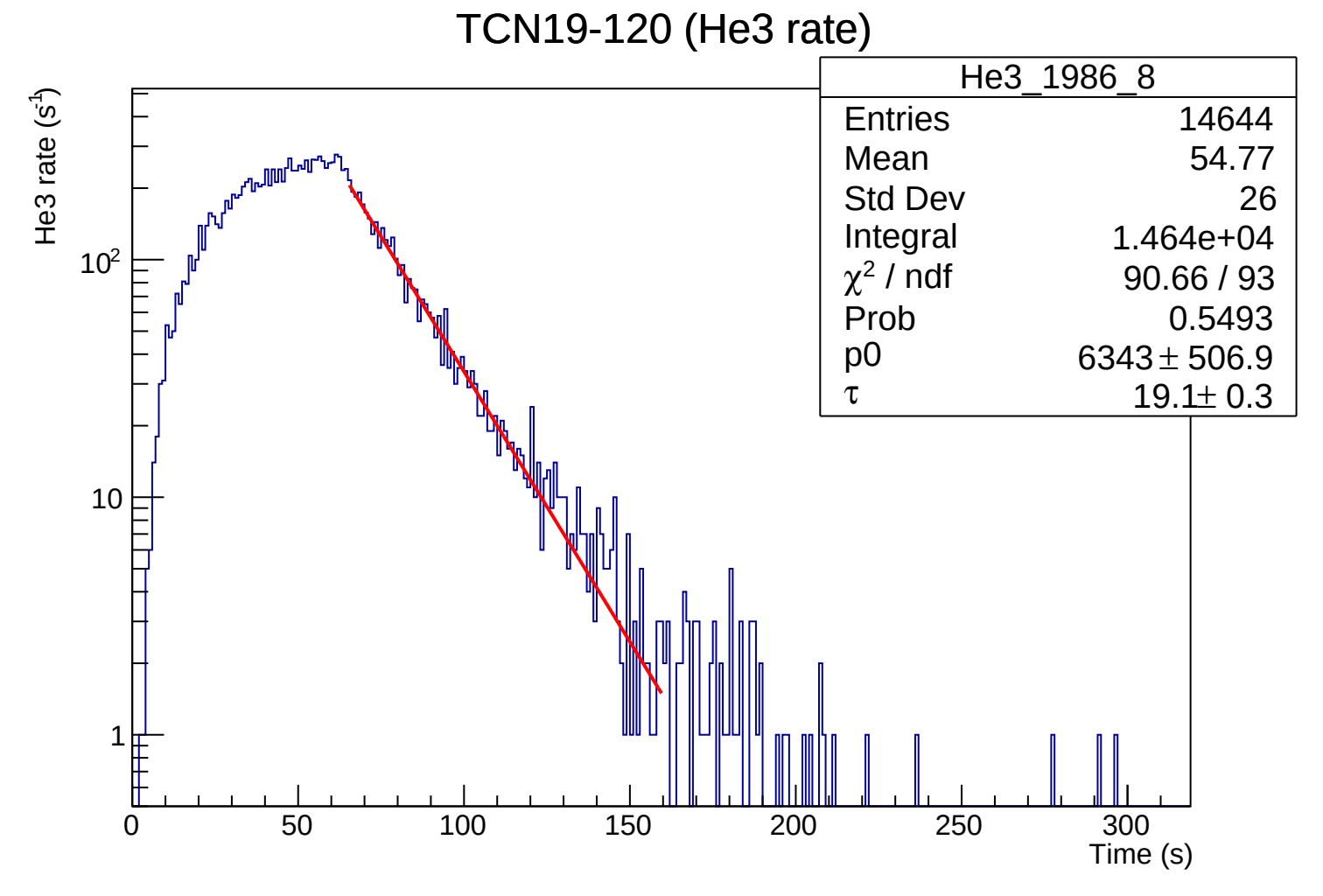

TCN19-120 (He3 rate)
He3_1986_3
Entries 14565
Mean 55.32
Std Dev 26.17
Integral 1.456e+04
χ² / ndf 94.16 / 93
Prob 0.4468
p0 5027 ± 385.4
τ 20.26 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

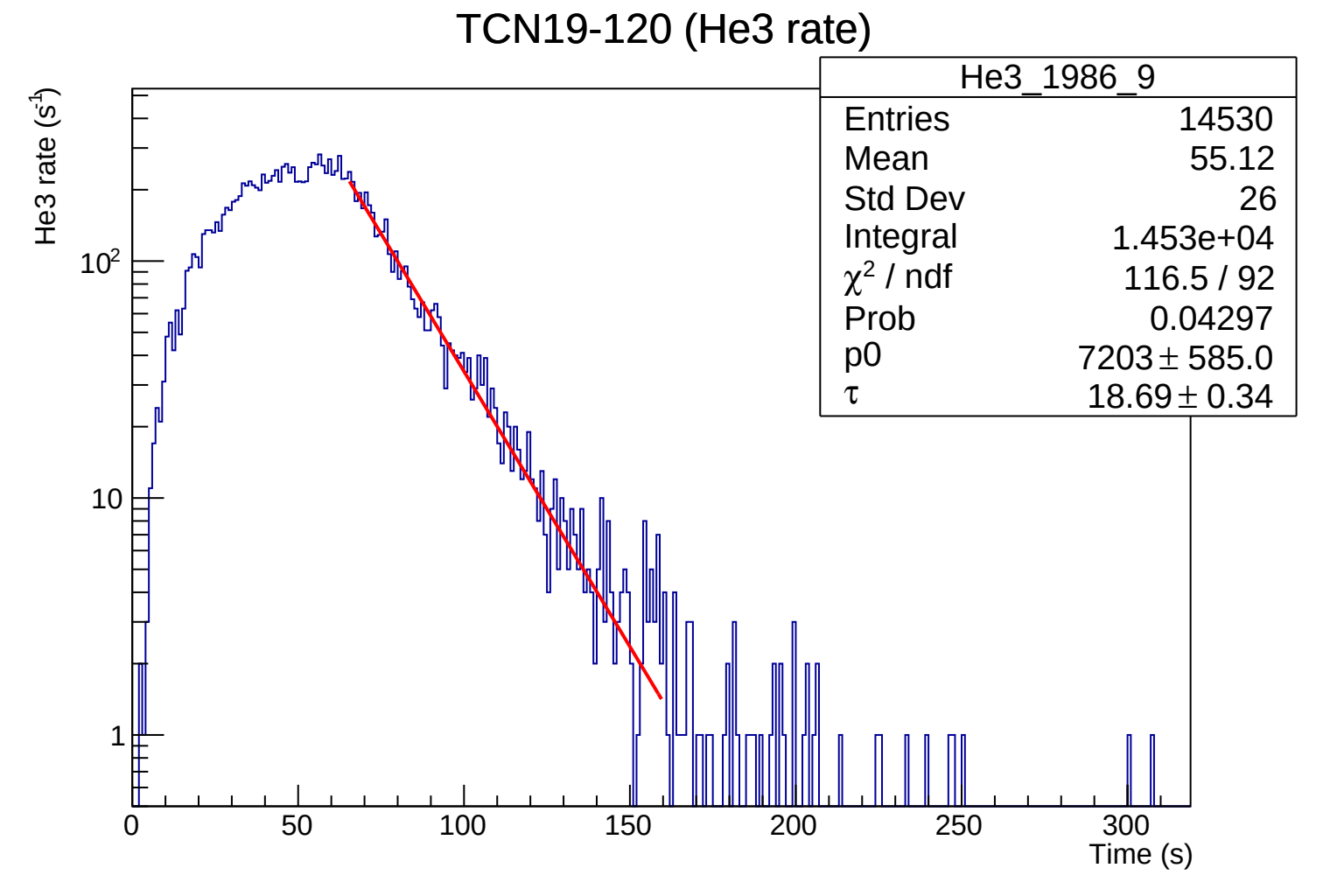

TCN19-120 (He3 rate)
He3_1986_4
Entries 14463
Mean 55.81
Std Dev 26.18
Integral 1.446e+04
χ² / ndf 94.23 / 93
Prob 0.445
p0 6474 ± 490.2
τ 19.22 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

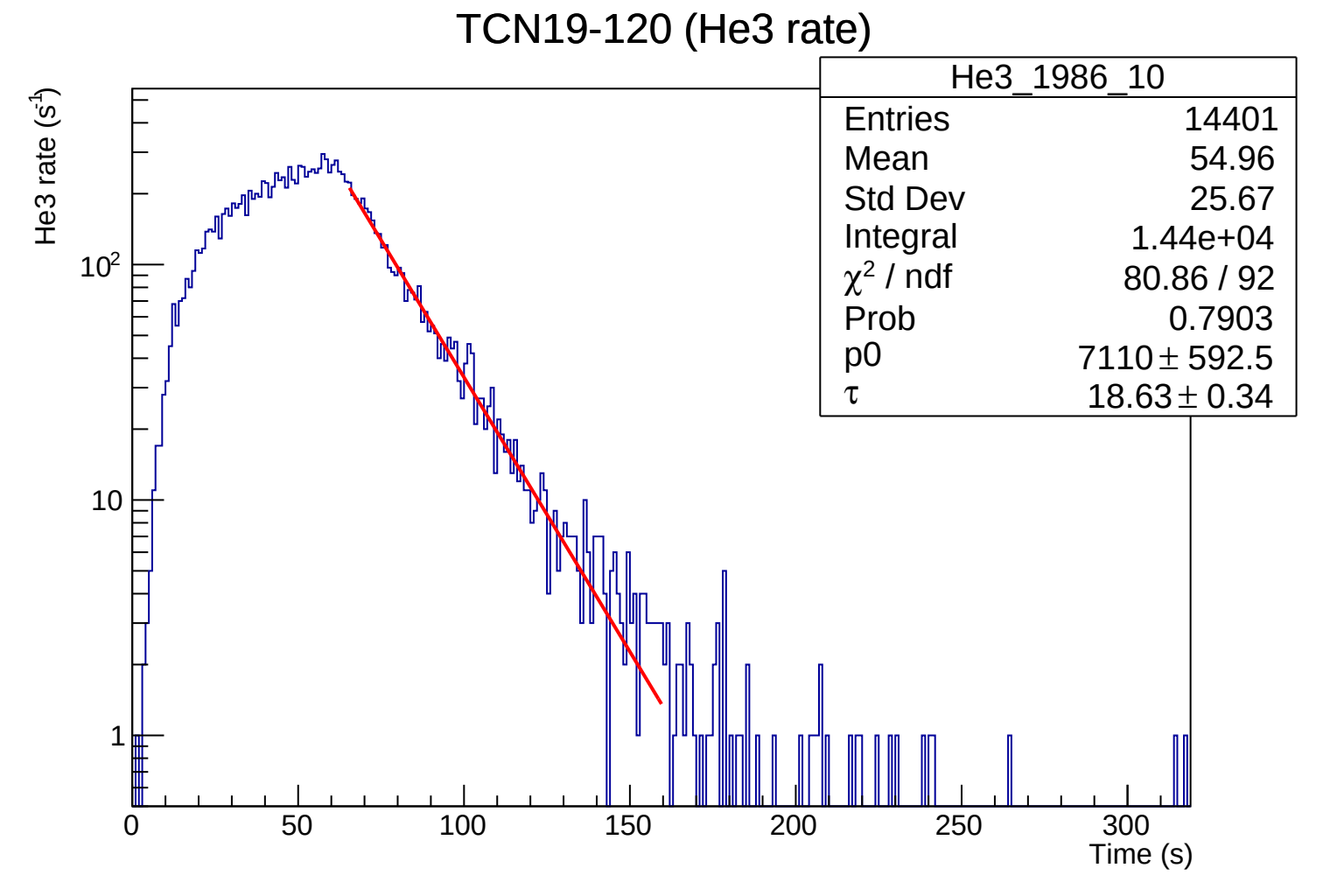

TCN19-120 (He3 rate)
He3_1986_5
Entries 14440
Mean 55.22
Std Dev 26.06
Integral 1.444e+04
χ² / ndf 93.1 / 92
Prob 0.4484
p0 6361± 503.0
τ 19.2± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

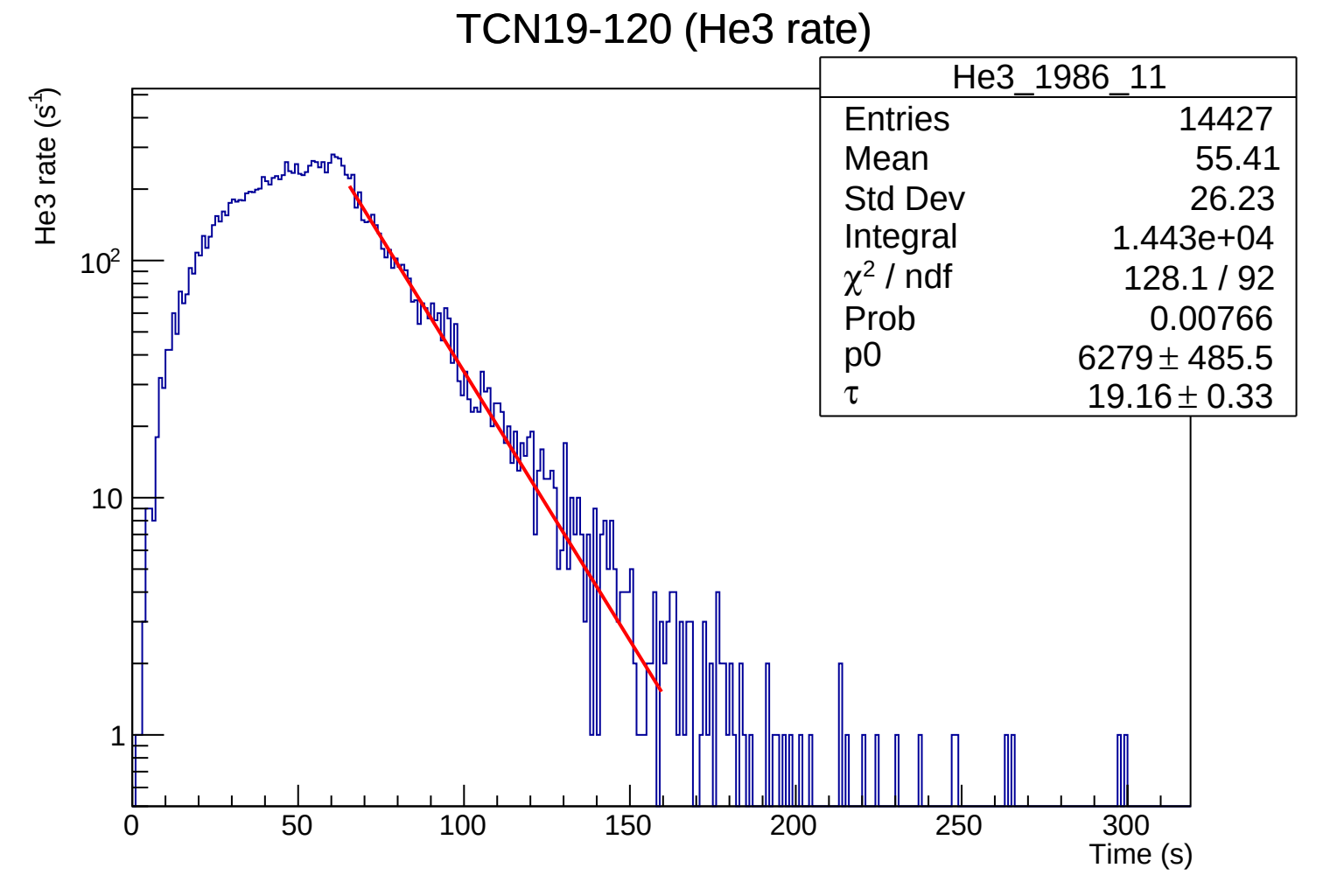

TCN19-120 (He3 rate)
He3_1986_6
Entries 14812
Mean 55.54
Std Dev 26.23
Integral 1.481e+04
χ² / ndf 81.63 / 93
Prob 0.7942
p0 6408 ± 492.8
τ 19.32 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

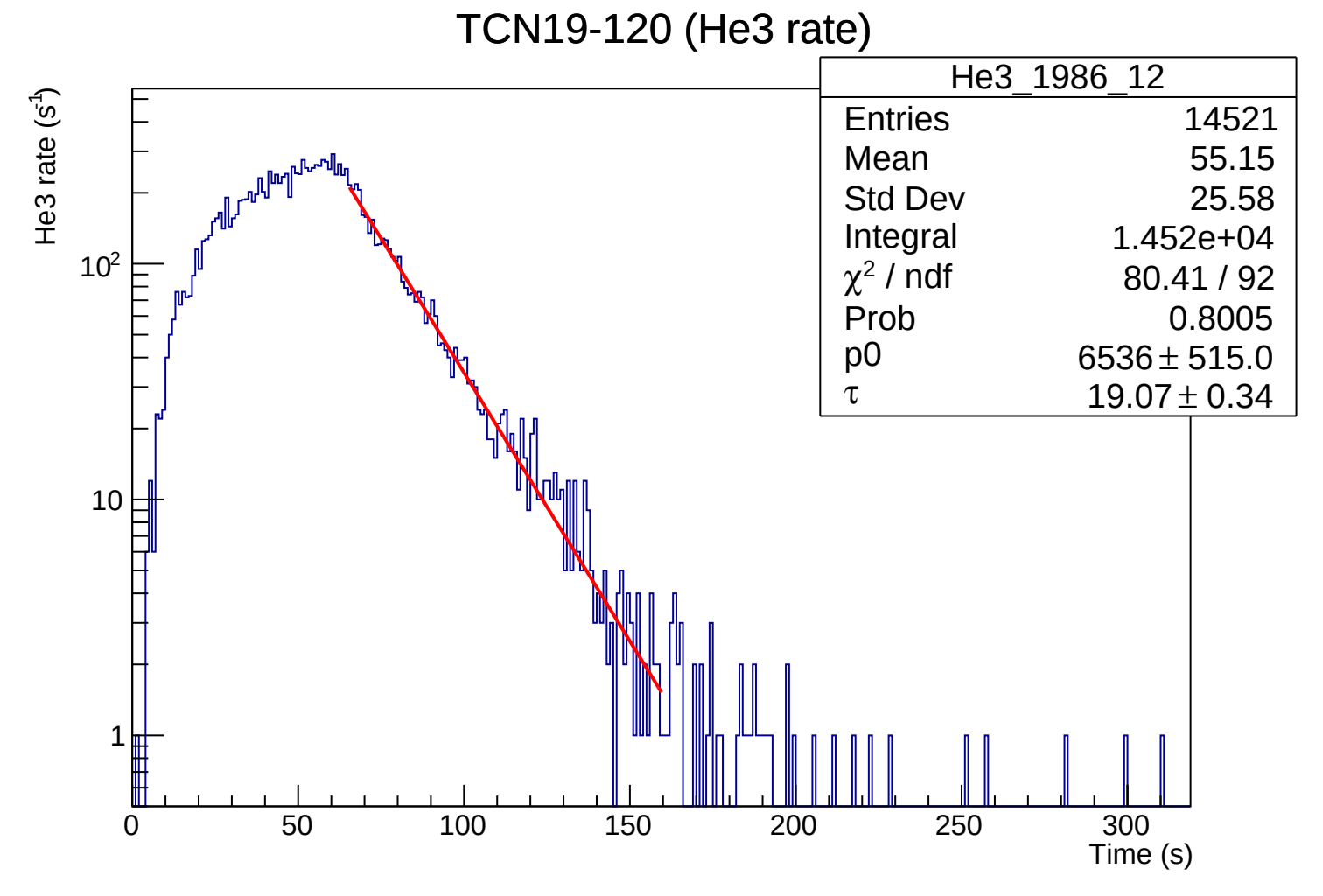

TCN19-120 (He3 rate)
He3_1986_7
Entries 14379
Mean 55.18
Std Dev 26.55
Integral 1.438e+04
χ² / ndf 96.49 / 93
Prob 0.3815
p0 6018 ± 475.8
τ 19.35 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

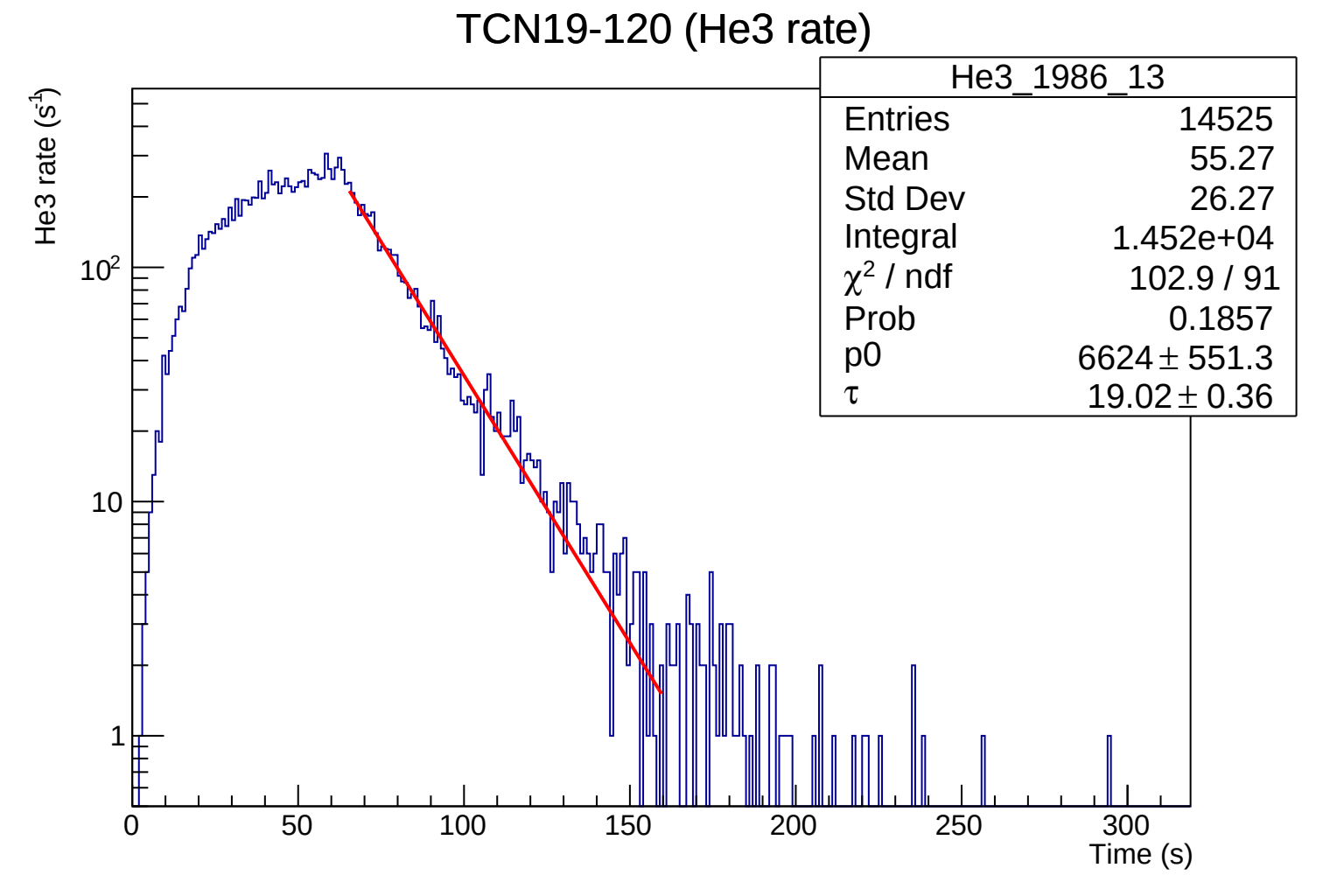

TCN19-120 (He3 rate)
He3_1986_8
Entries 14644
Mean 54.77
Std Dev 26
Integral 1.464e+04
χ² / ndf 90.66 / 93
Prob 0.5493
p0 6343 ± 506.9
τ 19.1 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

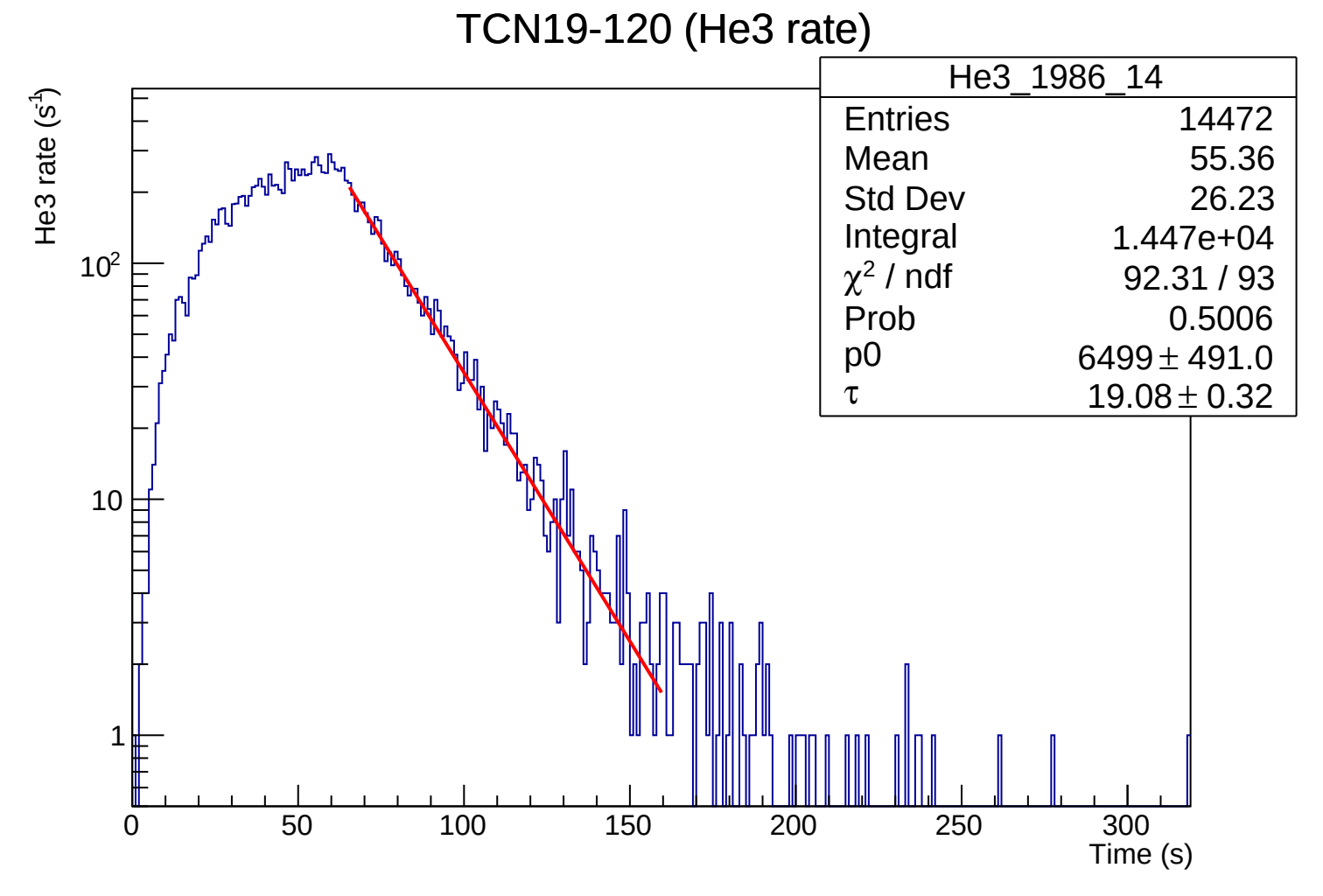

TCN19-120 (He3 rate)
He3_1986_9
Entries 14530
Mean 55.12
Std Dev 26
Integral 1.453e+04
χ² / ndf 116.5 / 92
Prob 0.04297
p0 7203 ± 585.0
τ 18.69 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

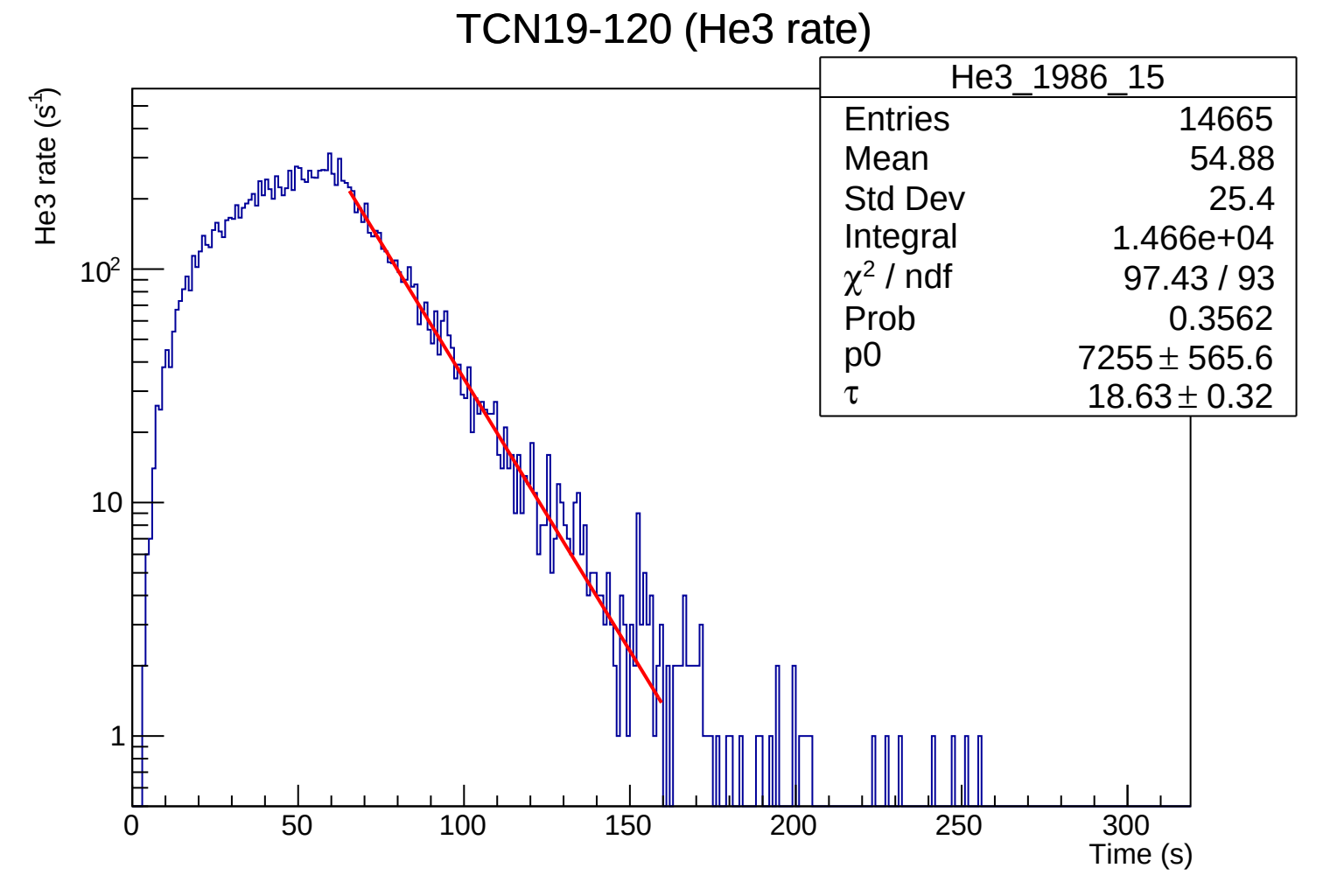

TCN19-120 (He3 rate)
He3_1986_10
Entries 14401
Mean 54.96
Std Dev 25.67
Integral 1.44e+04
χ² / ndf 80.86 / 92
Prob 0.7903
p0 7110 ± 592.5
τ 18.63 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

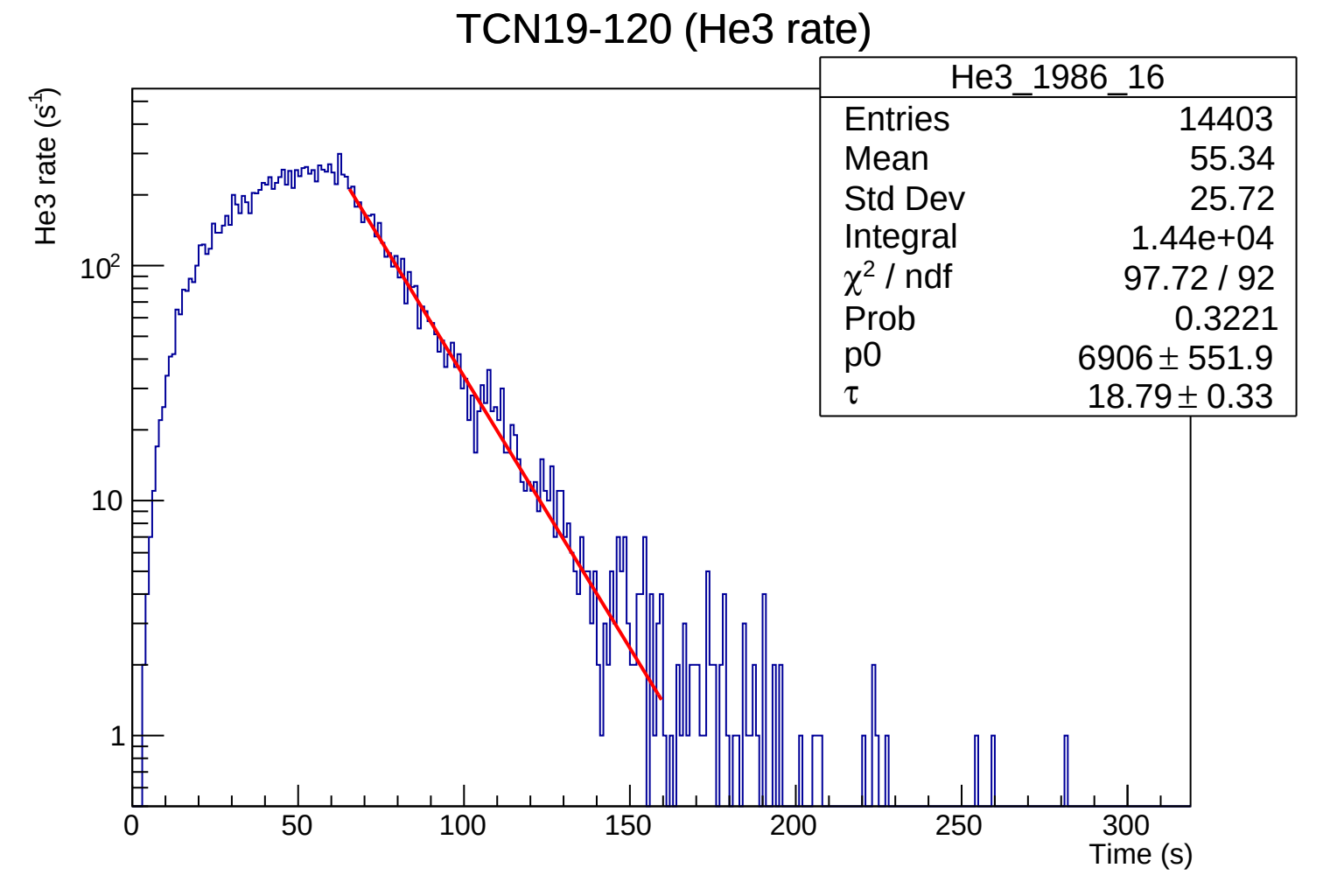

TCN19-120 (He3 rate)
He3_1986_11
Entries 14427
Mean 55.41
Std Dev 26.23
Integral 1.443e+04
χ² / ndf 128.1 / 92
Prob 0.00766
p0 6279 ± 485.5
τ 19.16 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

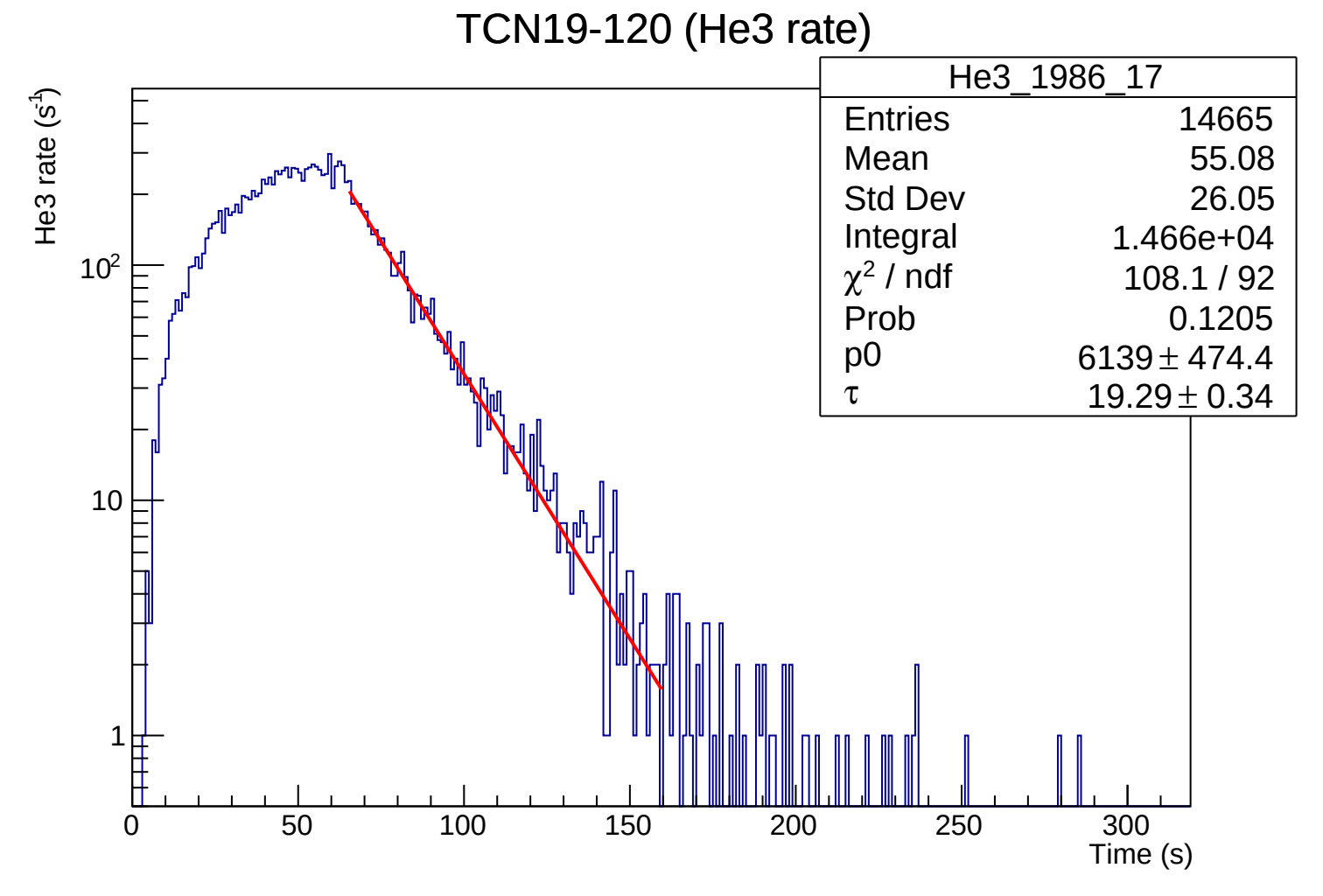

TCN19-120 (He3 rate)
He3_1986_12
Entries 14521
Mean 55.15
Std Dev 25.58
Integral 1.452e+04
χ² / ndf 80.41 / 92
Prob 0.8005
p0 6536 ± 515.0
τ 19.07 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

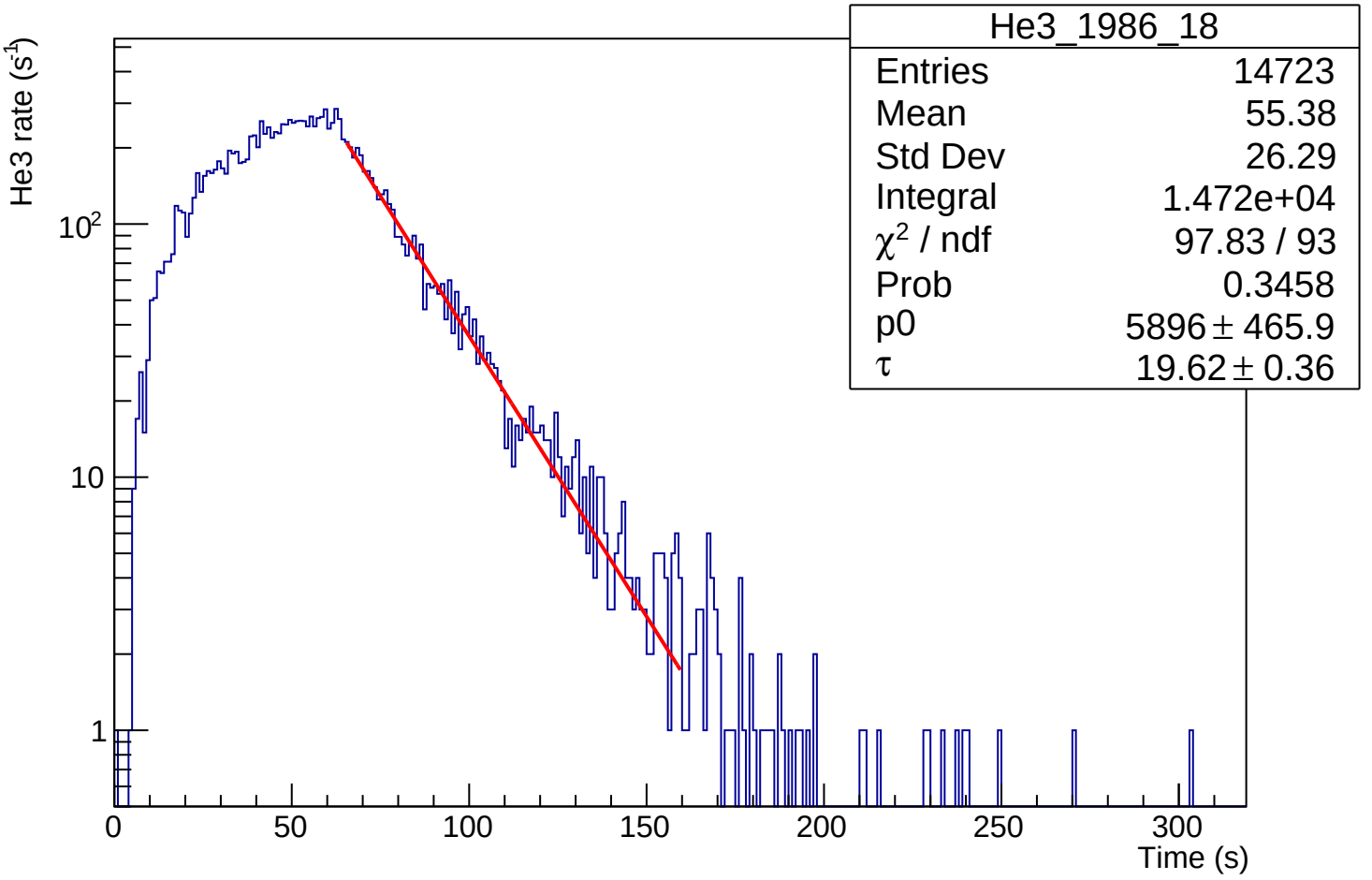

TCN19-120 (He3 rate)
He3_1986_13
Entries 14525
Mean 55.27
Std Dev 26.27
Integral 1.452e+04
χ² / ndf 102.9 / 91
Prob 0.1857
p0 6624 ± 551.3
τ 19.02 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

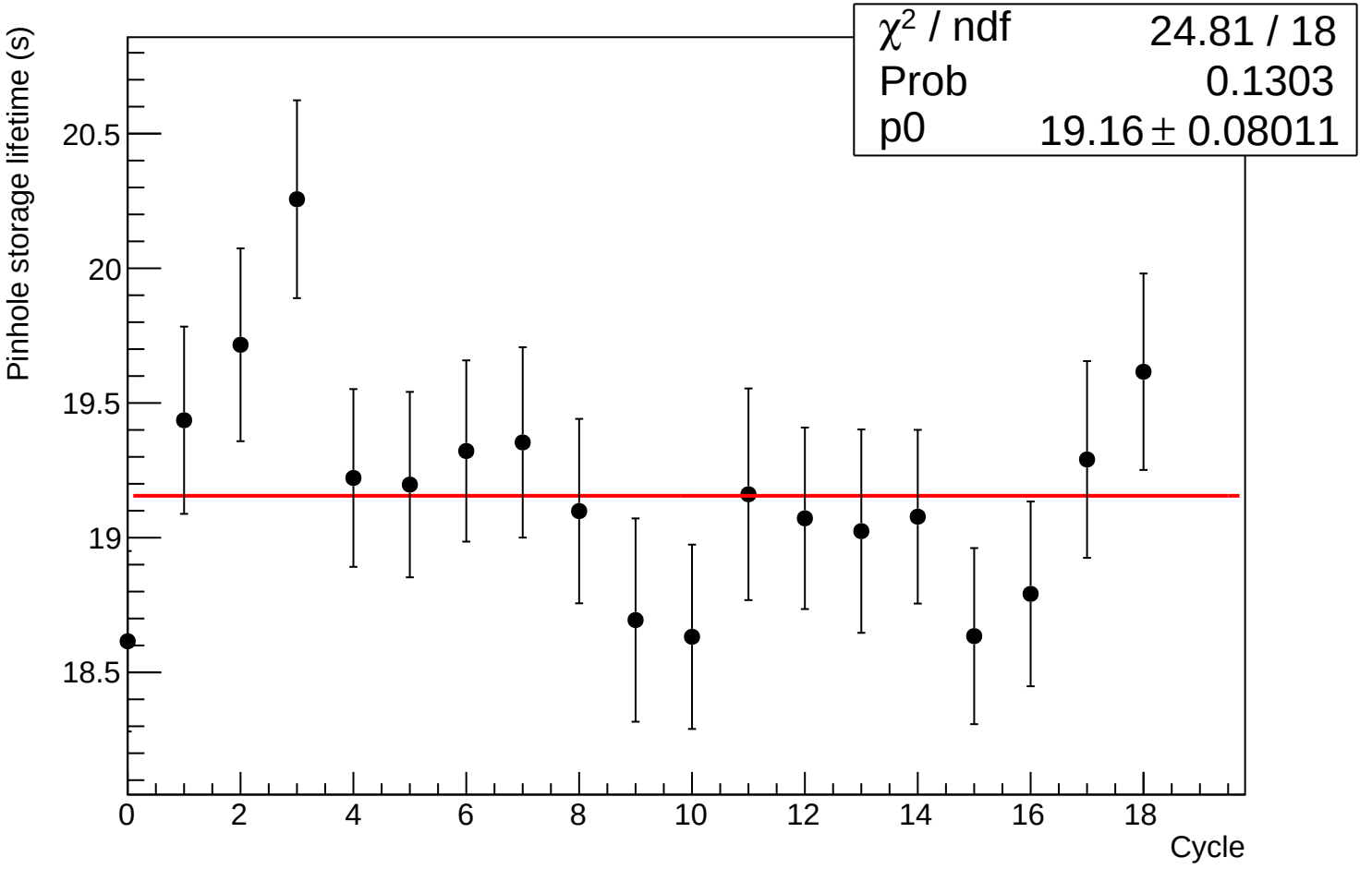

TCN19-120 (He3 rate)
He3_1986_14
Entries 14472
Mean 55.36
Std Dev 26.23
Integral 1.447e+04
χ² / ndf 92.31 / 93
Prob 0.5006
p0 6499 ± 491.0
τ 19.08 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

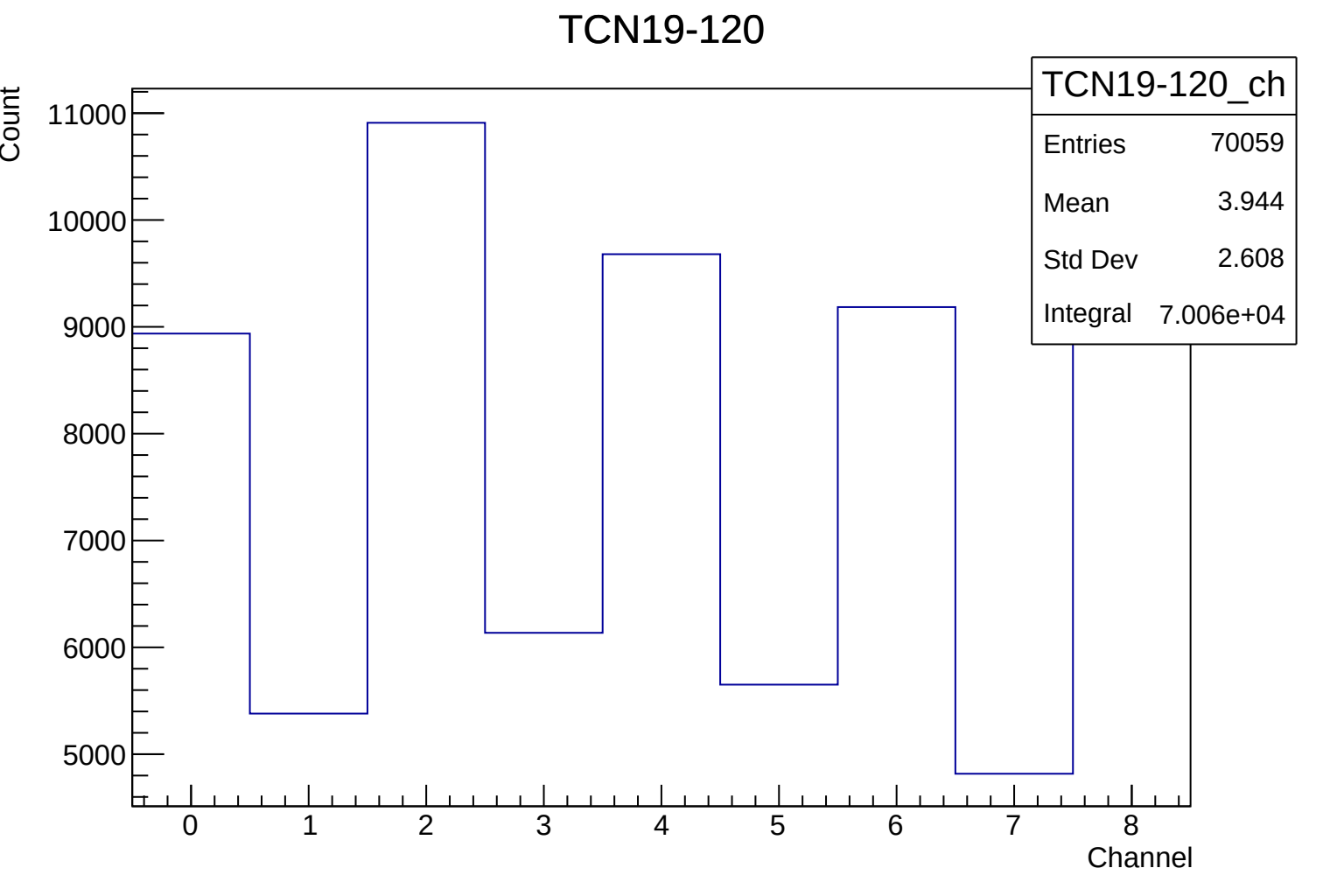

TCN19-120 (He3 rate)
He3_1986_15
Entries 14665
Mean 54.88
Std Dev 25.4
Integral 1.466e+04
χ² / ndf 97.43 / 93
Prob 0.3562
p0 7255 ± 565.6
τ 18.63 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-120 (He3 rate)
He3_1986_16
Entries 14403
Mean 55.34
Std Dev 25.72
Integral 1.44e+04
χ² / ndf 97.72 / 92
Prob 0.3221
p0 6906 ± 551.9
τ 18.79 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-120 (He3 rate)
He3_1986_17
Entries 14665
Mean 55.08
Std Dev 26.05
Integral 1.466e+04
χ² / ndf 108.1 / 92
Prob 0.1205
p0 6139 ± 474.4
τ 19.29 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-120 (He3 rate)
He3_1986_18
Entries 14723
Mean 55.38
Std Dev 26.29
Integral 1.472e+04
χ² / ndf 97.83 / 93
Prob 0.3458
p0 5896 ± 465.9
τ 19.62 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


χ^2 / ndf 24.81 / 18
Prob 0.1303
p0 19.16 ± 0.08011
Pinhole storage lifetime (s)
20.5
20
19.5
19
18.5
0
2
4
6
8
10
12
14
16
18
Cycle


TCN19-120
TCN19-120_ch
Entries 70059
Mean 3.944
Std Dev 2.608
Integral 7.006e+04
Count
11000
10000
9000
8000
7000
6000
5000
0
1
2
3
4
5
6
7
8
Channel