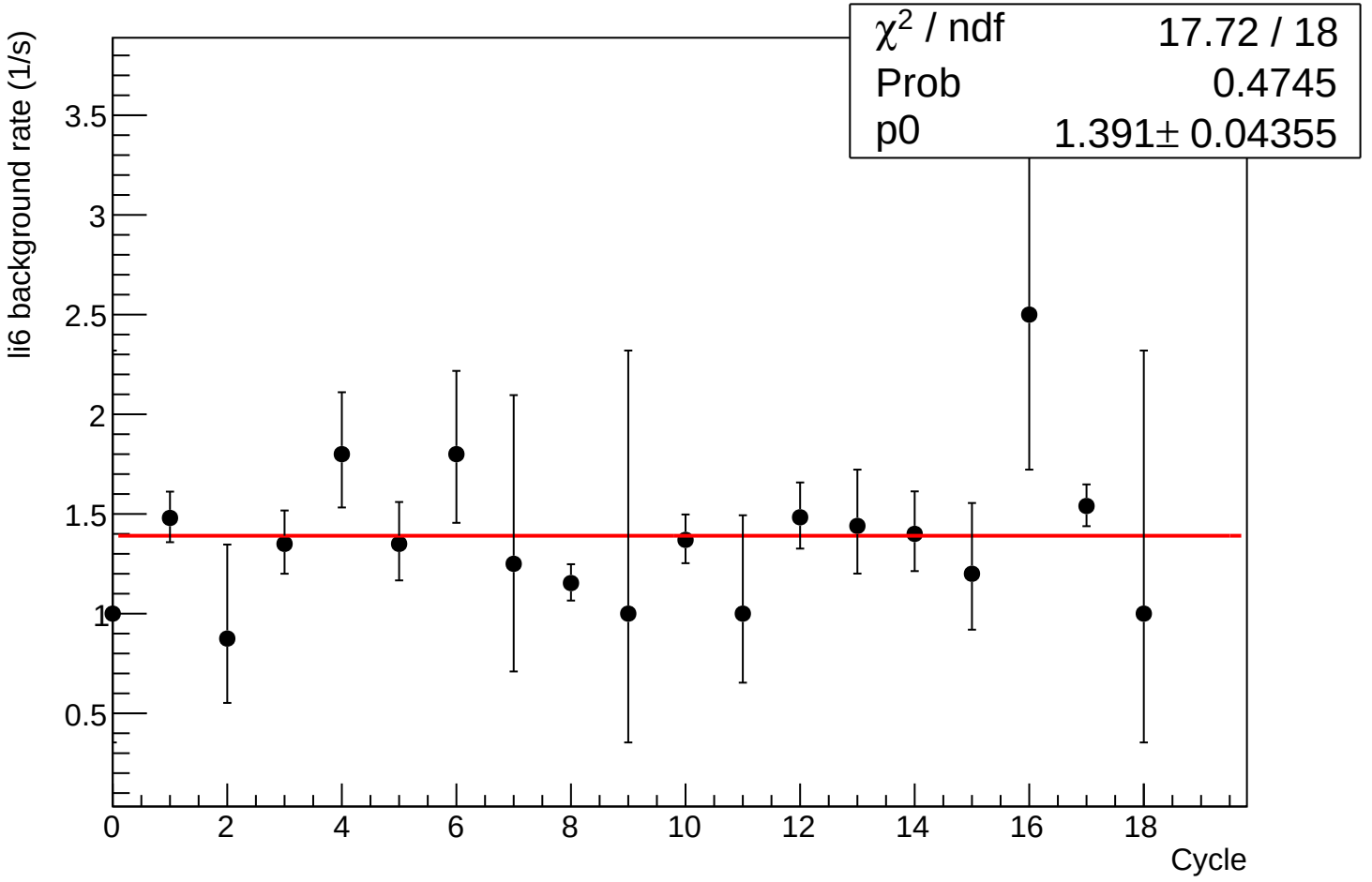
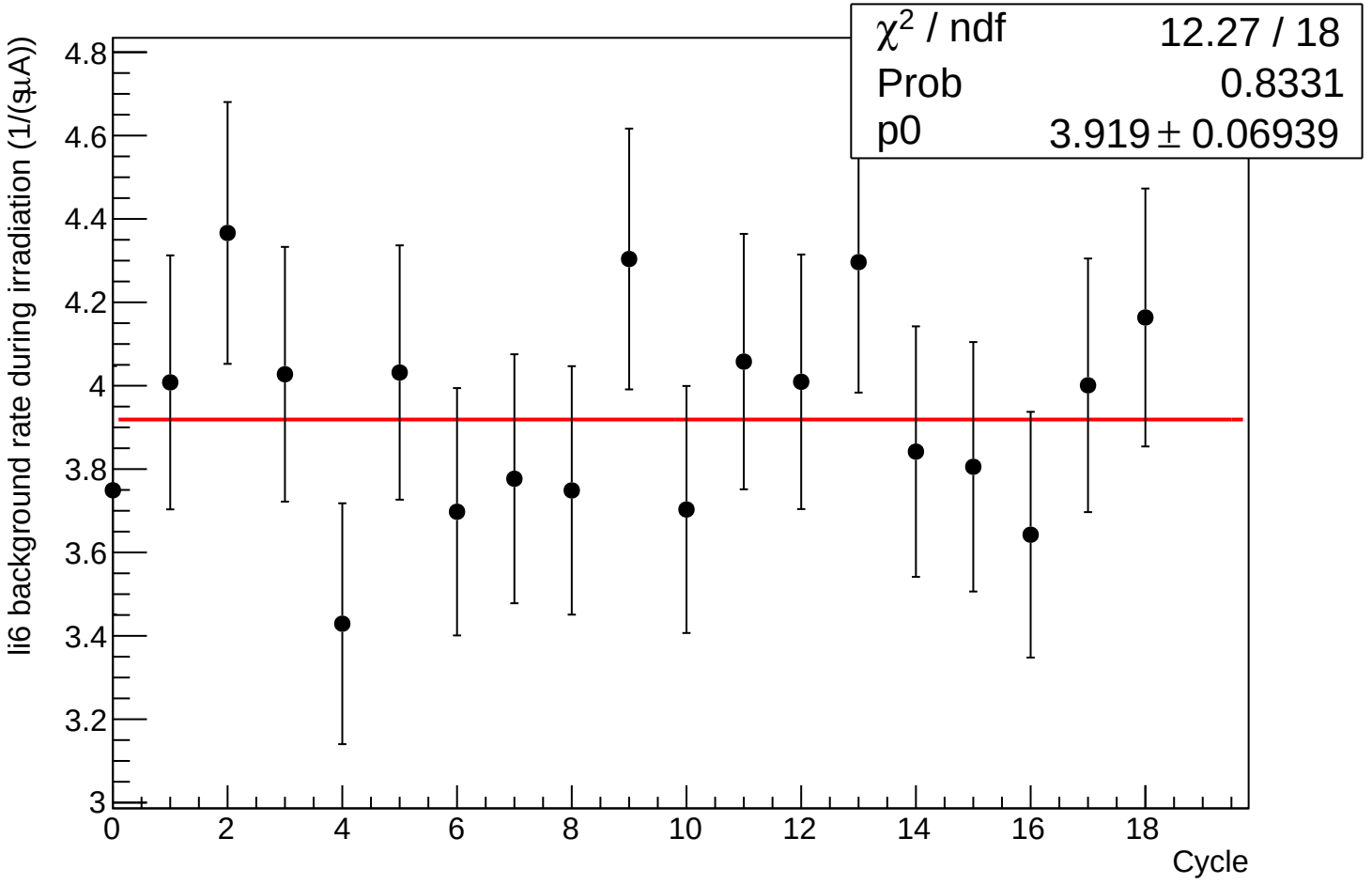
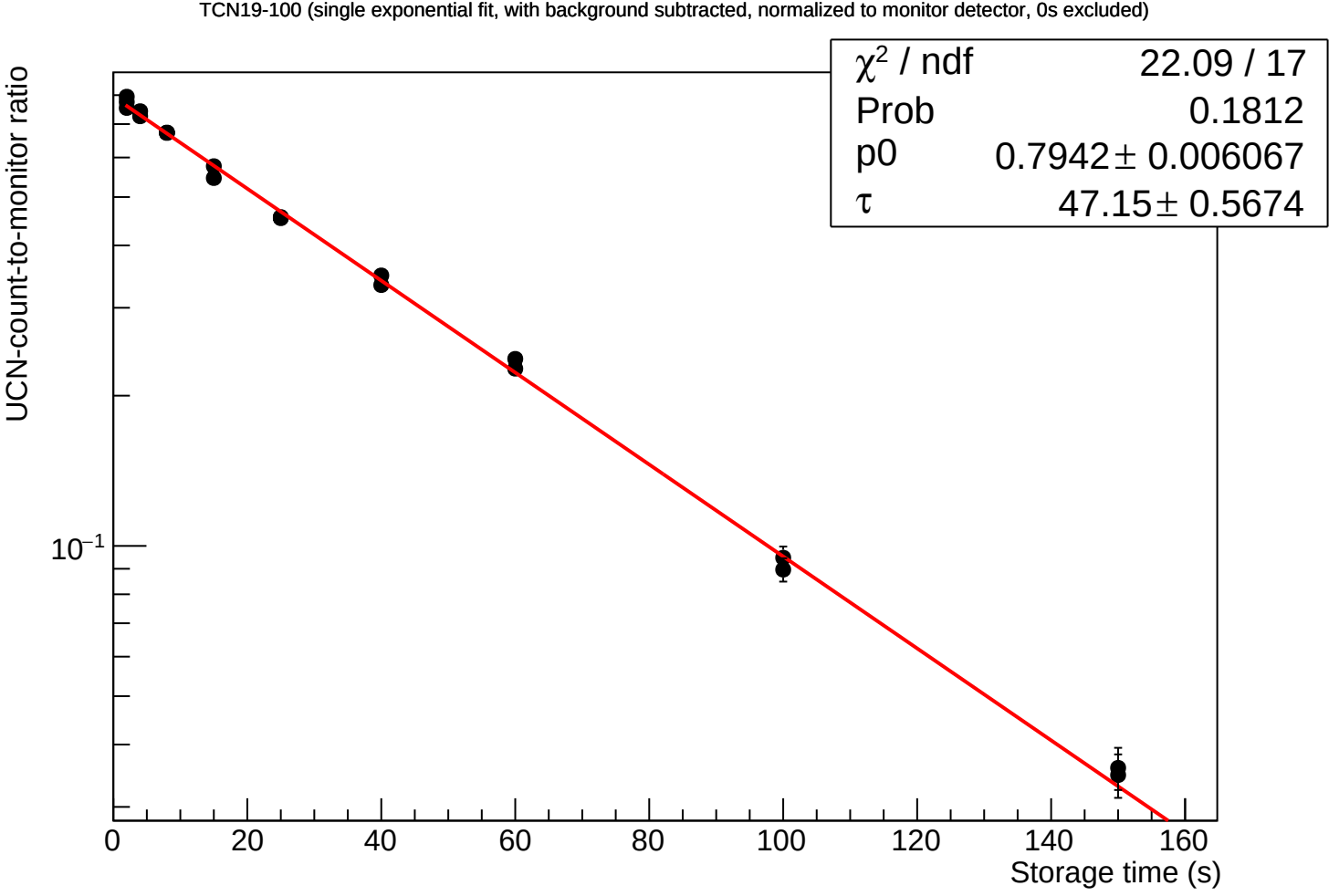
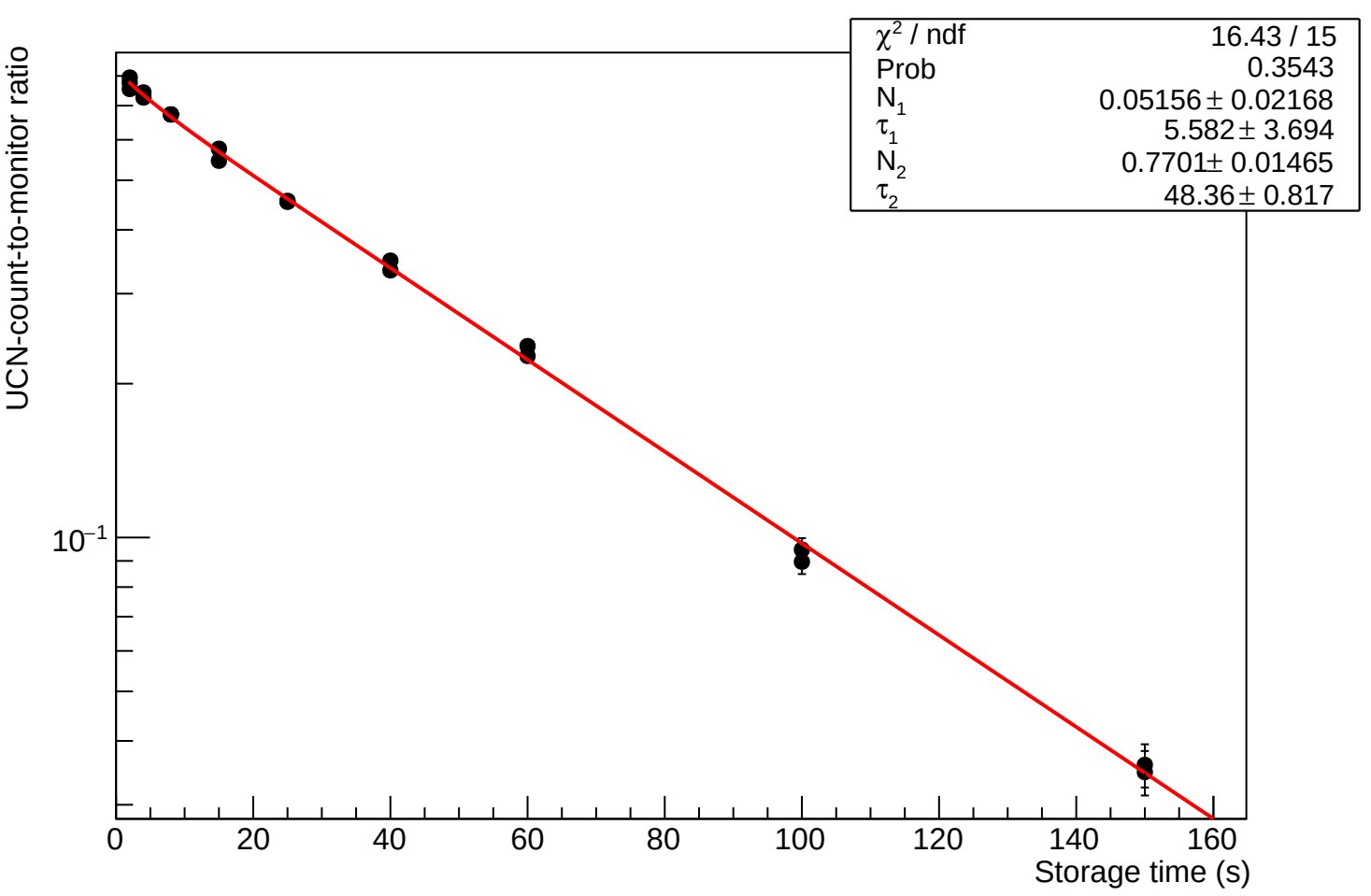
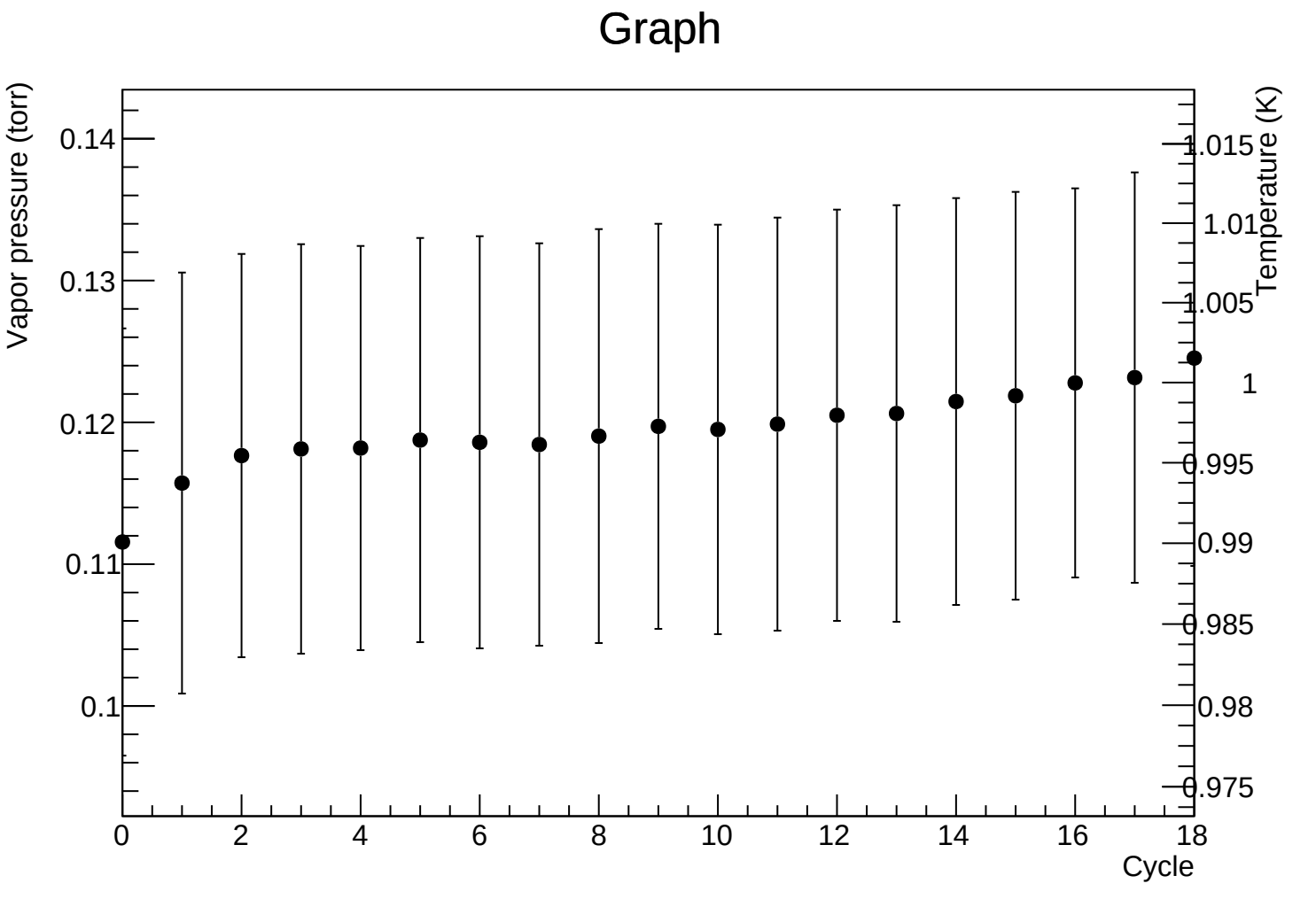
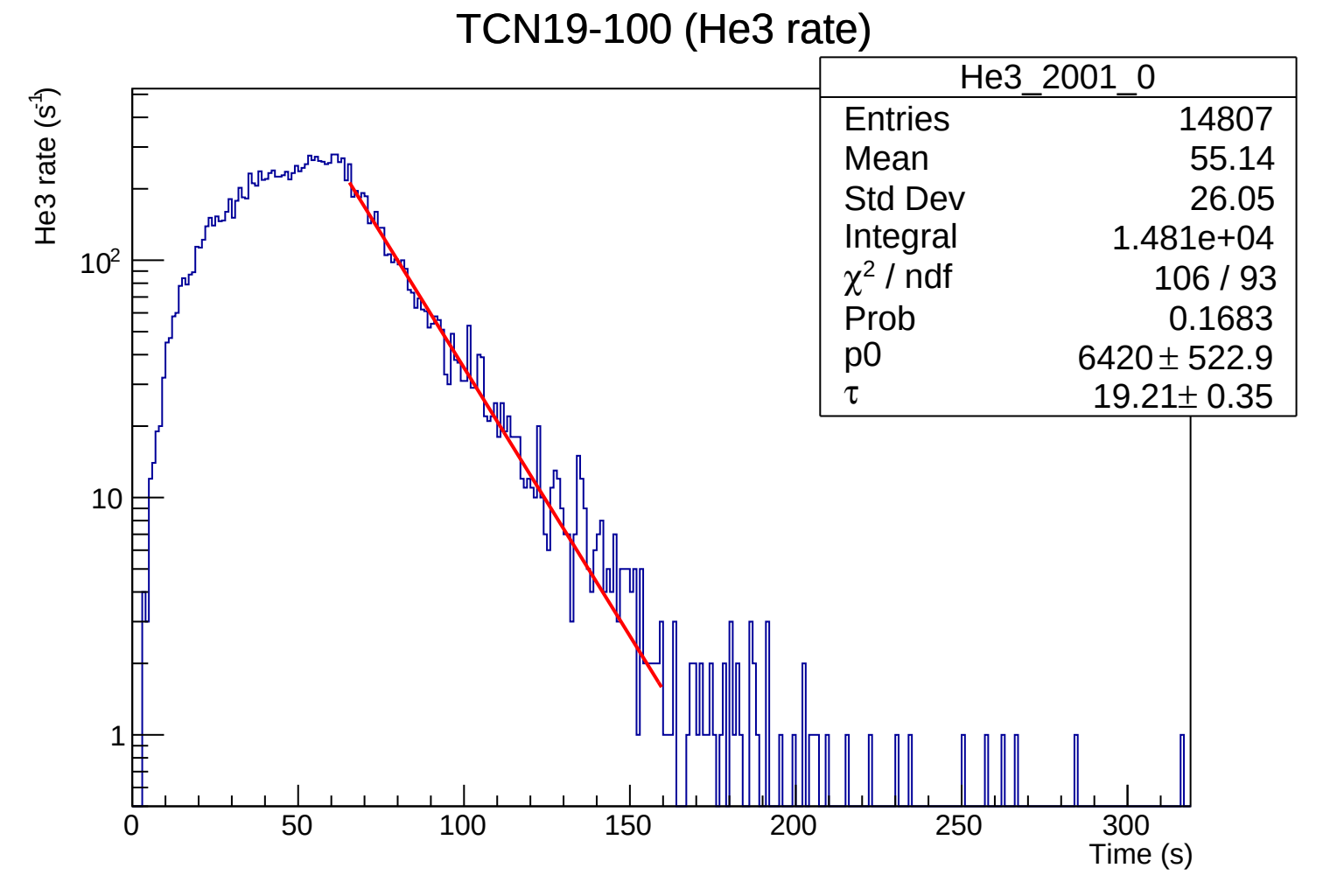

χ^2 / ndf 17.72 / 18
Prob 0.4745
p0 1.391± 0.04355
li6 background rate (1/s)
3.5
3
2.5
2
1.5
1
0.5
0
2
4
6
8
10
12
14
16
18
Cycle

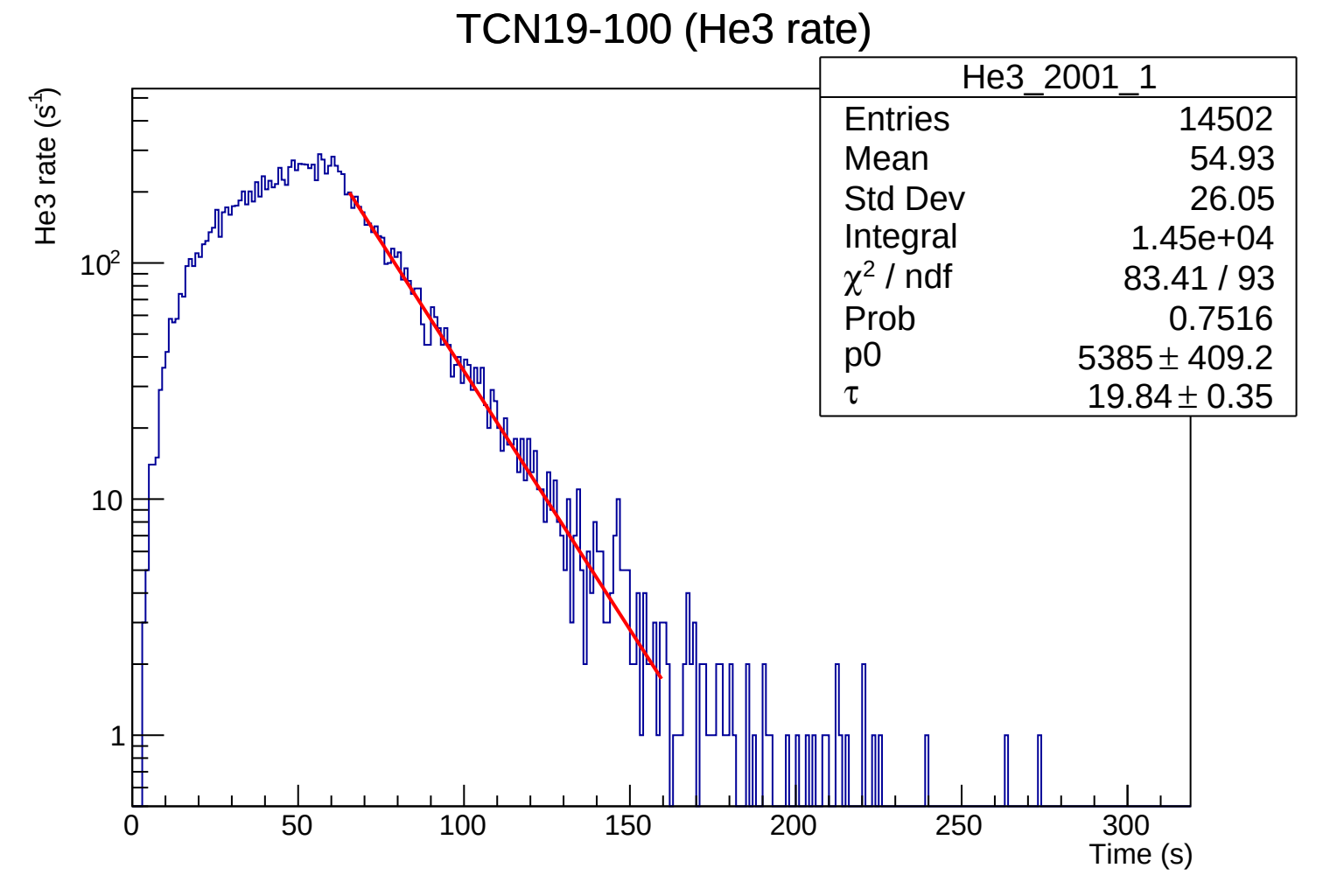

χ² / ndf 12.27 / 18
Prob 0.8331
p0 3.919 ± 0.06939
li6 background rate during irradiation (1/(μA))
Cycle
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
0
2
4
6
8
10
12
14
16
18

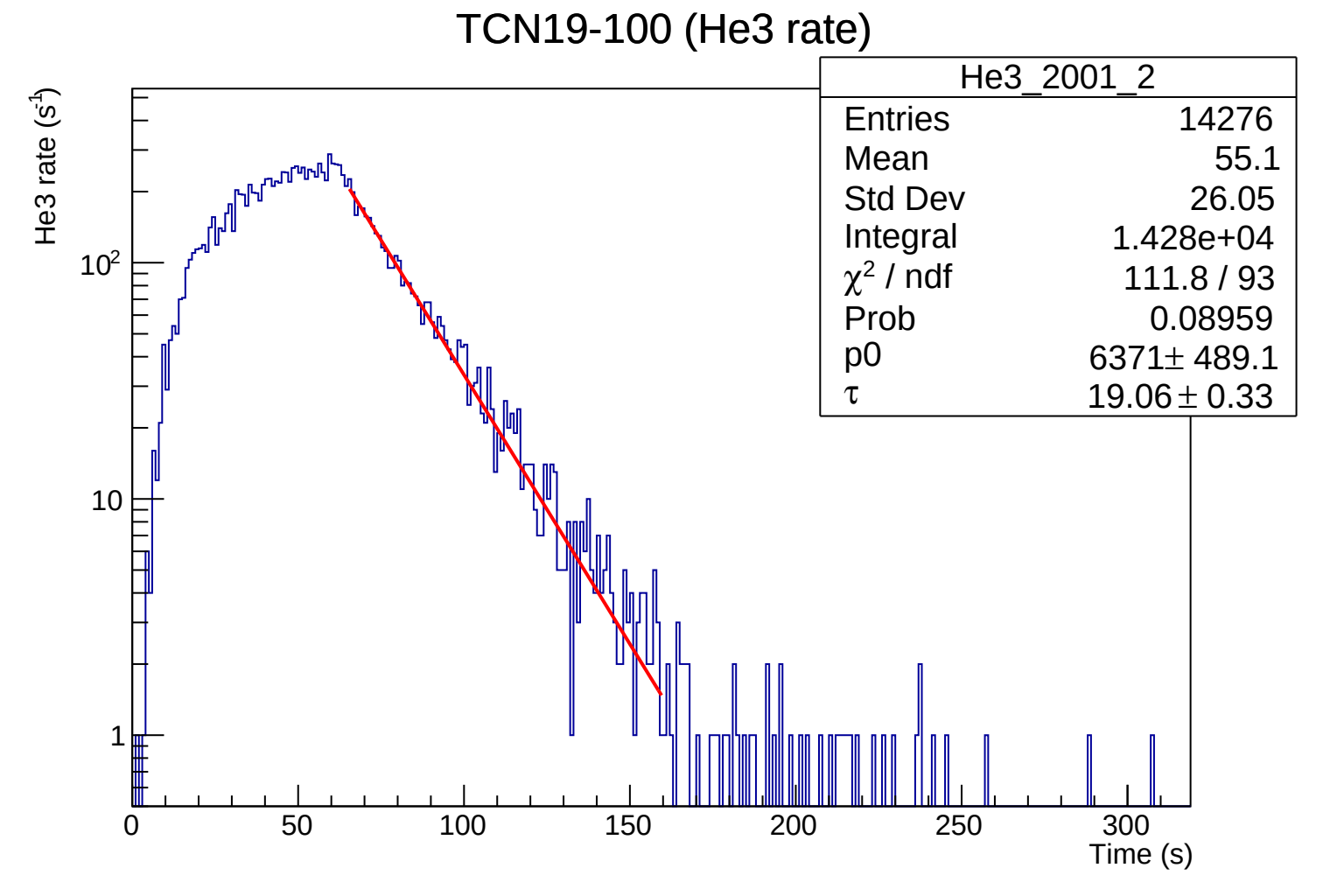

TCN19-100 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 22.09 / 17
Prob 0.1812
p0 0.7942 ± 0.006067
τ 47.15 ± 0.5674
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

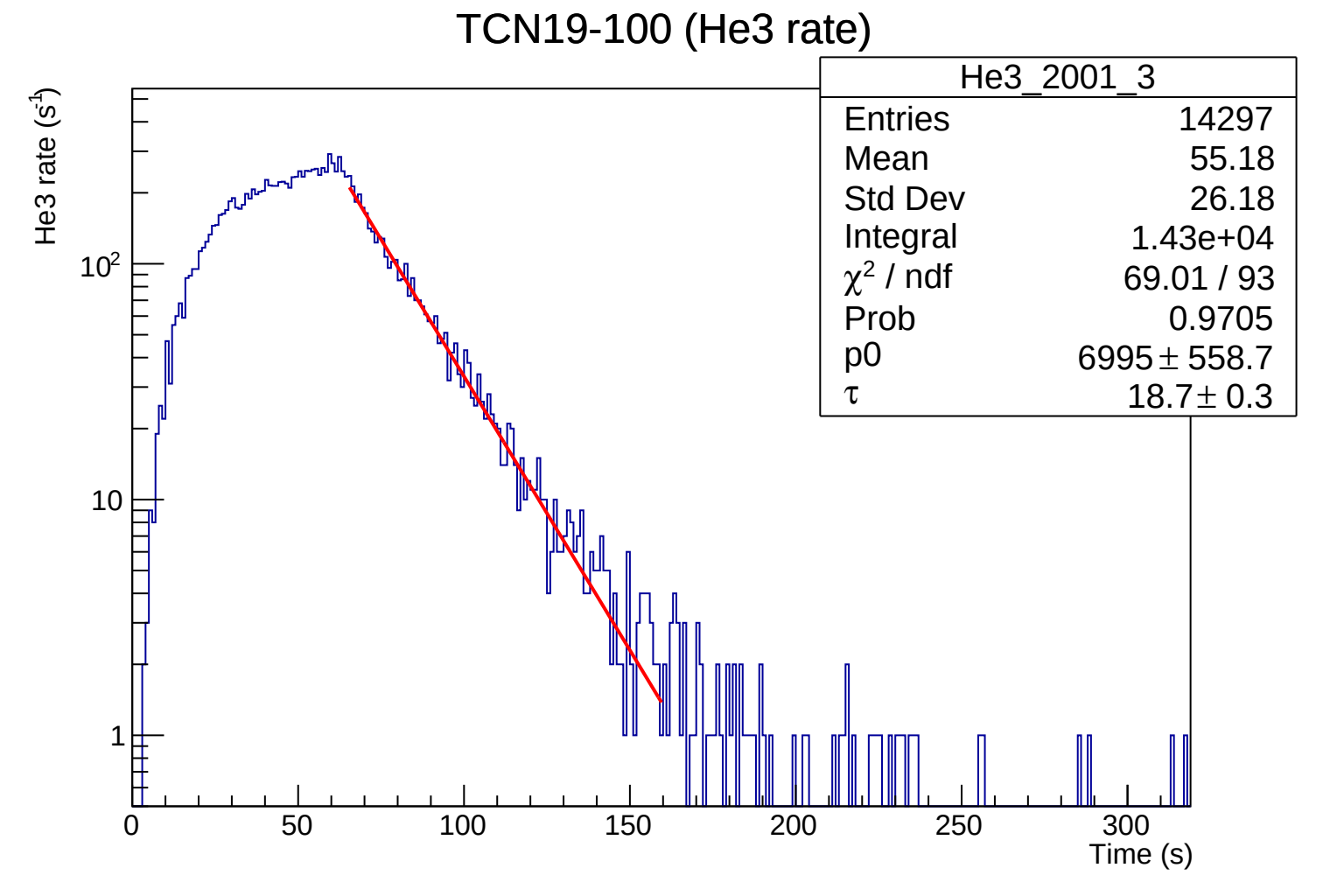

TCN19-100 (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 16.43 / 15
Prob 0.3543
N1 0.05156 ± 0.02168
τ1 5.582 ± 3.694
N2 0.7701 ± 0.01465
τ2 48.36 ± 0.817
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

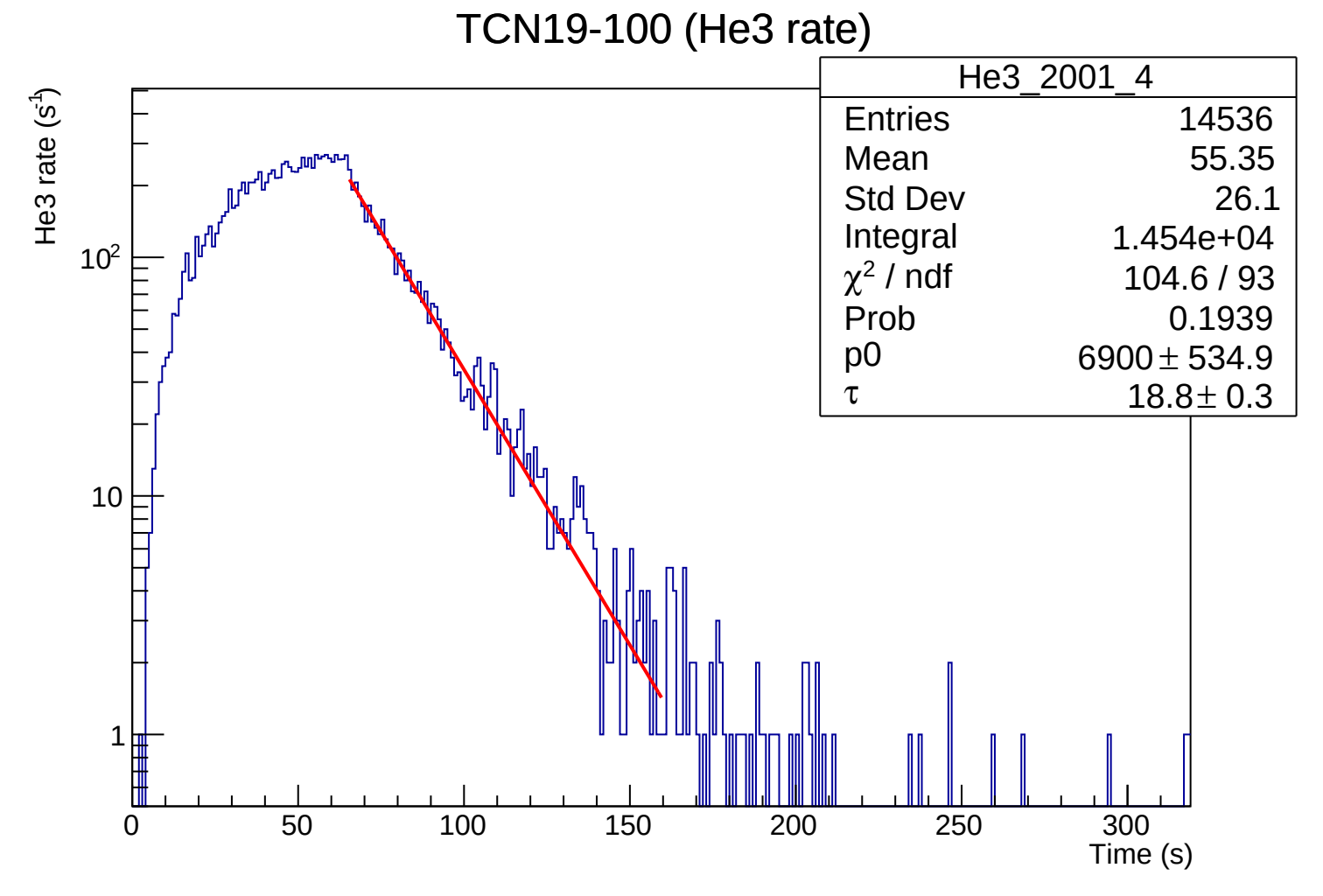

Graph
Vapor pressure (torr)
0.14
0.13
0.12
0.11
0.1
Temperature (K)
1.015
1.01
1.005
1
0.995
0.99
0.985
0.98
0.975
0
2
4
6
8
10
12
14
16
18
Cycle

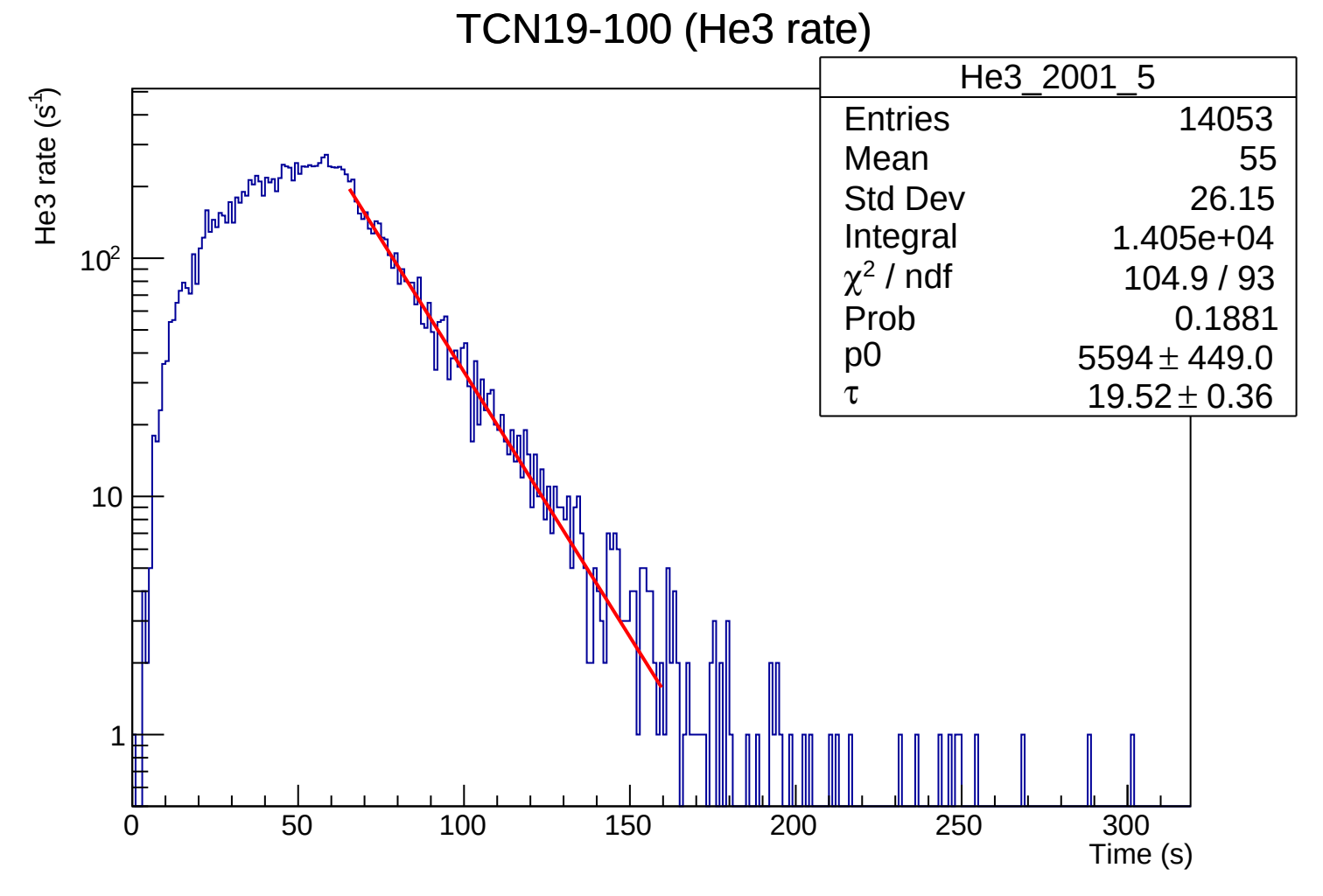

TCN19-100 (He3 rate)
He3_2001_0
Entries 14807
Mean 55.14
Std Dev 26.05
Integral 1.481e+04
χ² / ndf 106 / 93
Prob 0.1683
p0 6420 ± 522.9
τ 19.21 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

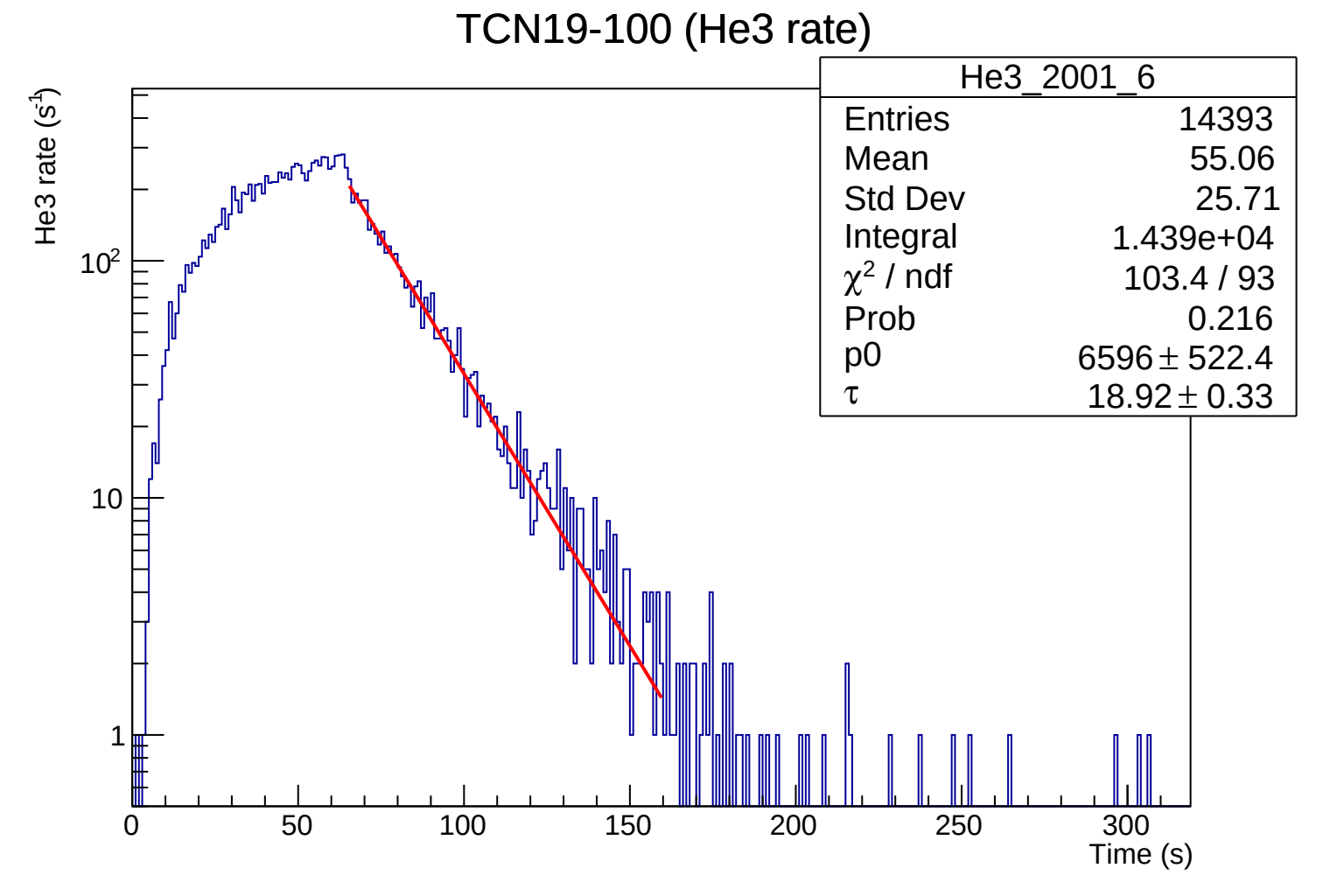

TCN19-100 (He3 rate)
He3_2001_1
Entries 14502
Mean 54.93
Std Dev 26.05
Integral 1.45e+04
χ² / ndf 83.41 / 93
Prob 0.7516
p0 5385 ± 409.2
τ 19.84 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

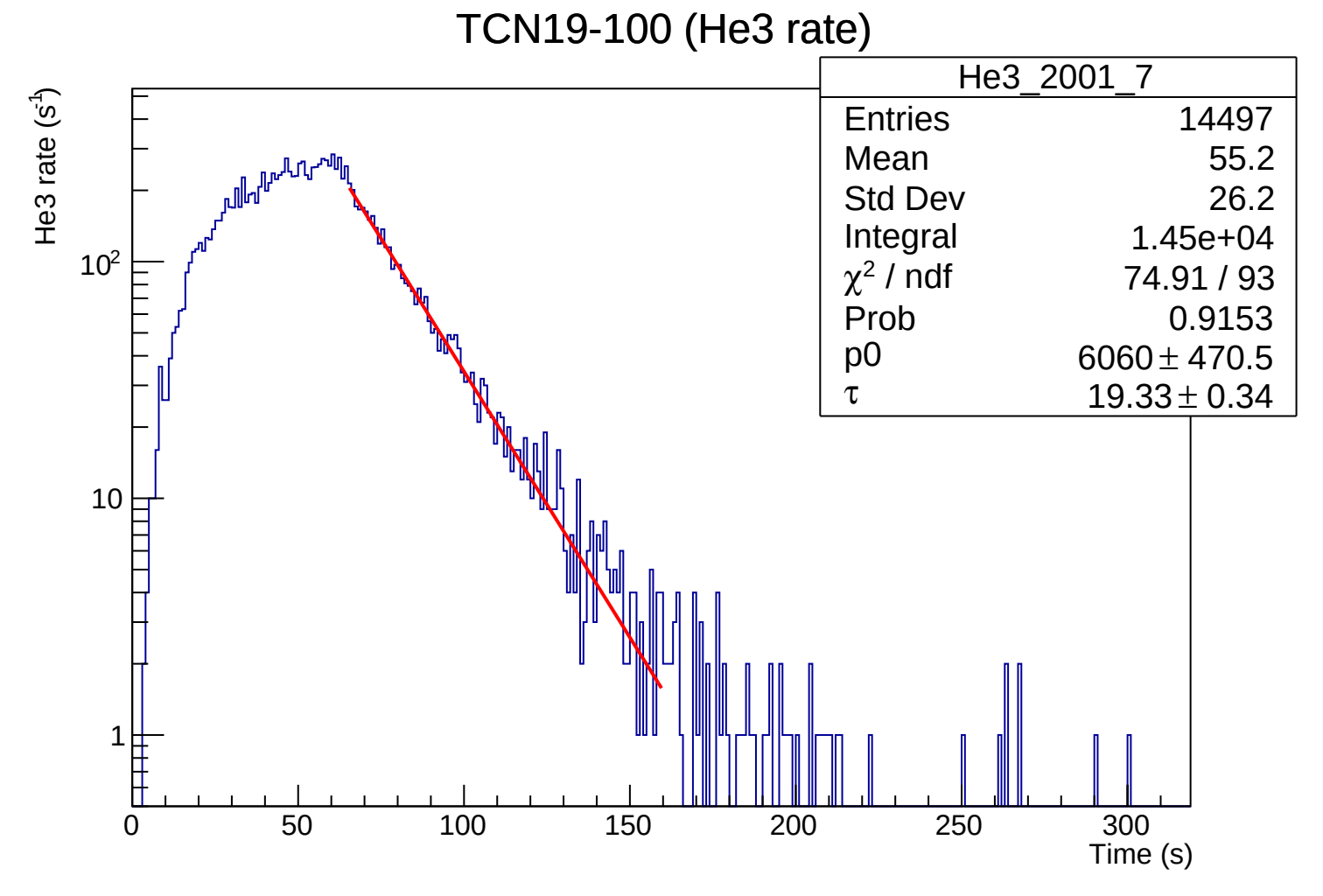

TCN19-100 (He3 rate)
He3_2001_2
Entries 14276
Mean 55.1
Std Dev 26.05
Integral 1.428e+04
χ² / ndf 111.8 / 93
Prob 0.08959
p0 6371± 489.1
τ 19.06 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

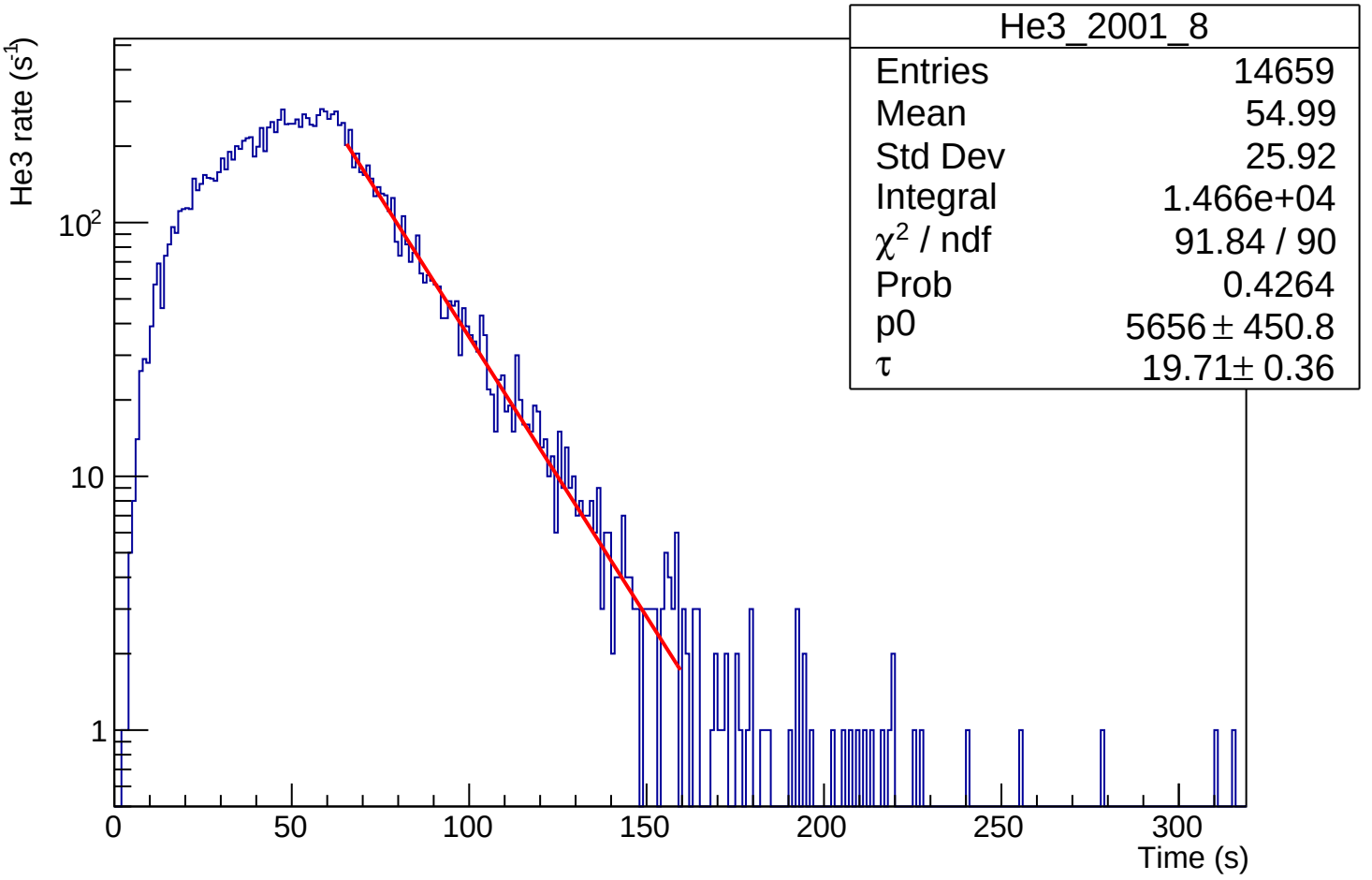

TCN19-100 (He3 rate)
He3_2001_3
Entries 14297
Mean 55.18
Std Dev 26.18
Integral 1.43e+04
χ² / ndf 69.01 / 93
Prob 0.9705
p0 6995 ± 558.7
τ 18.7 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

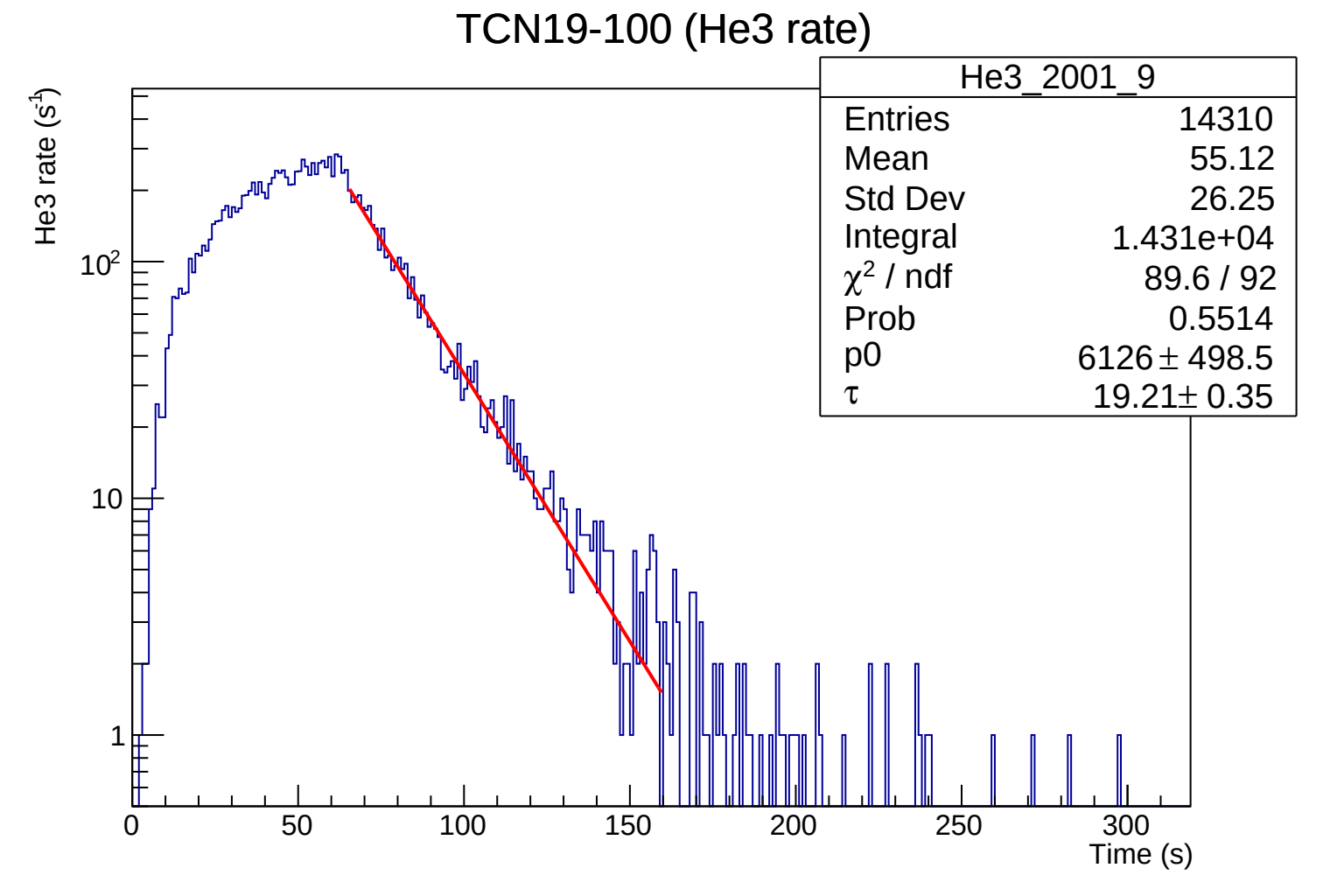

TCN19-100 (He3 rate)
He3_2001_4
Entries 14536
Mean 55.35
Std Dev 26.1
Integral 1.454e+04
χ² / ndf 104.6 / 93
Prob 0.1939
p0 6900 ± 534.9
τ 18.8 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

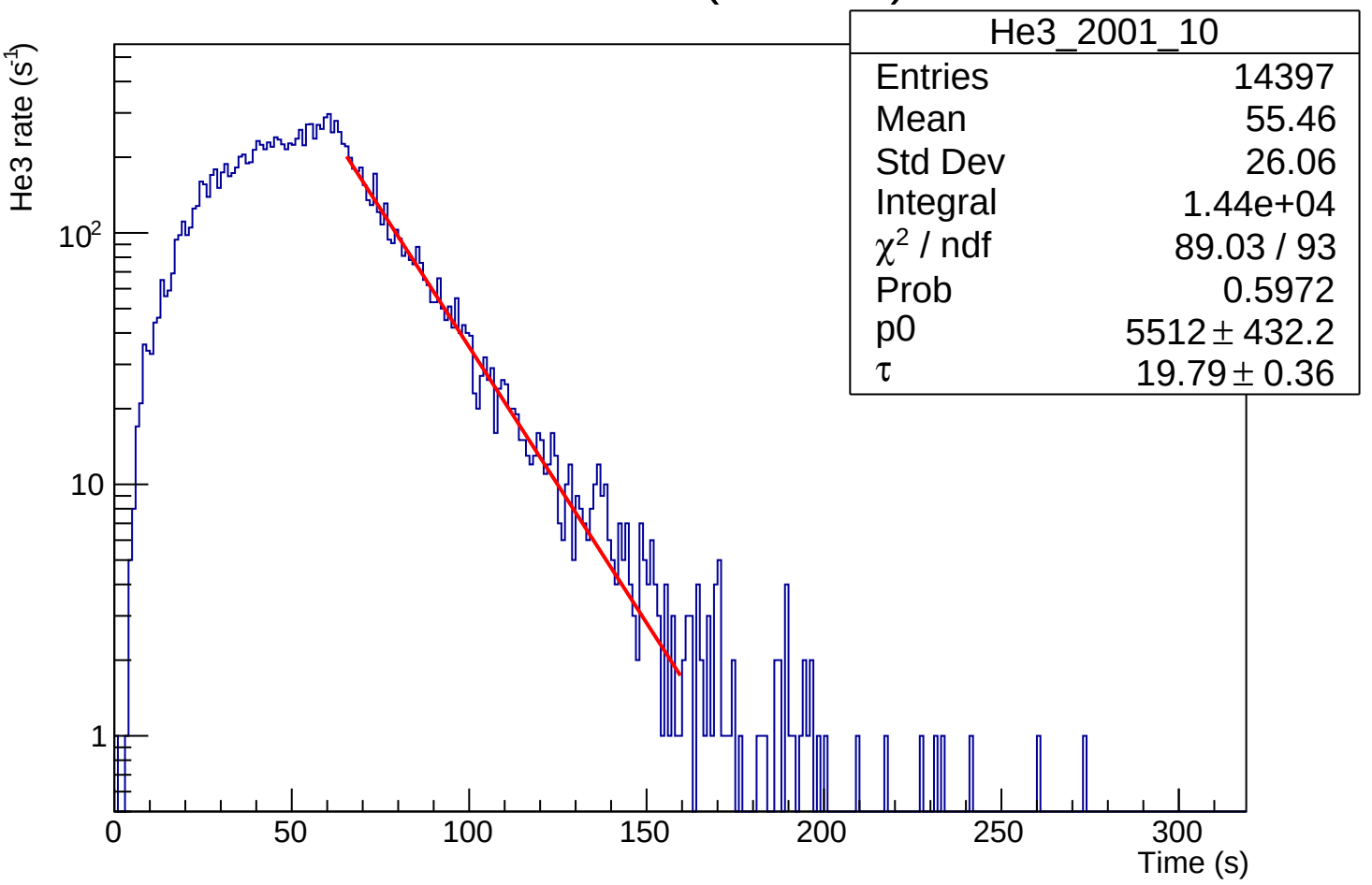

TCN19-100 (He3 rate)
He3_2001_5
Entries 14053
Mean 55
Std Dev 26.15
Integral 1.405e+04
χ² / ndf 104.9 / 93
Prob 0.1881
p0 5594 ± 449.0
τ 19.52 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

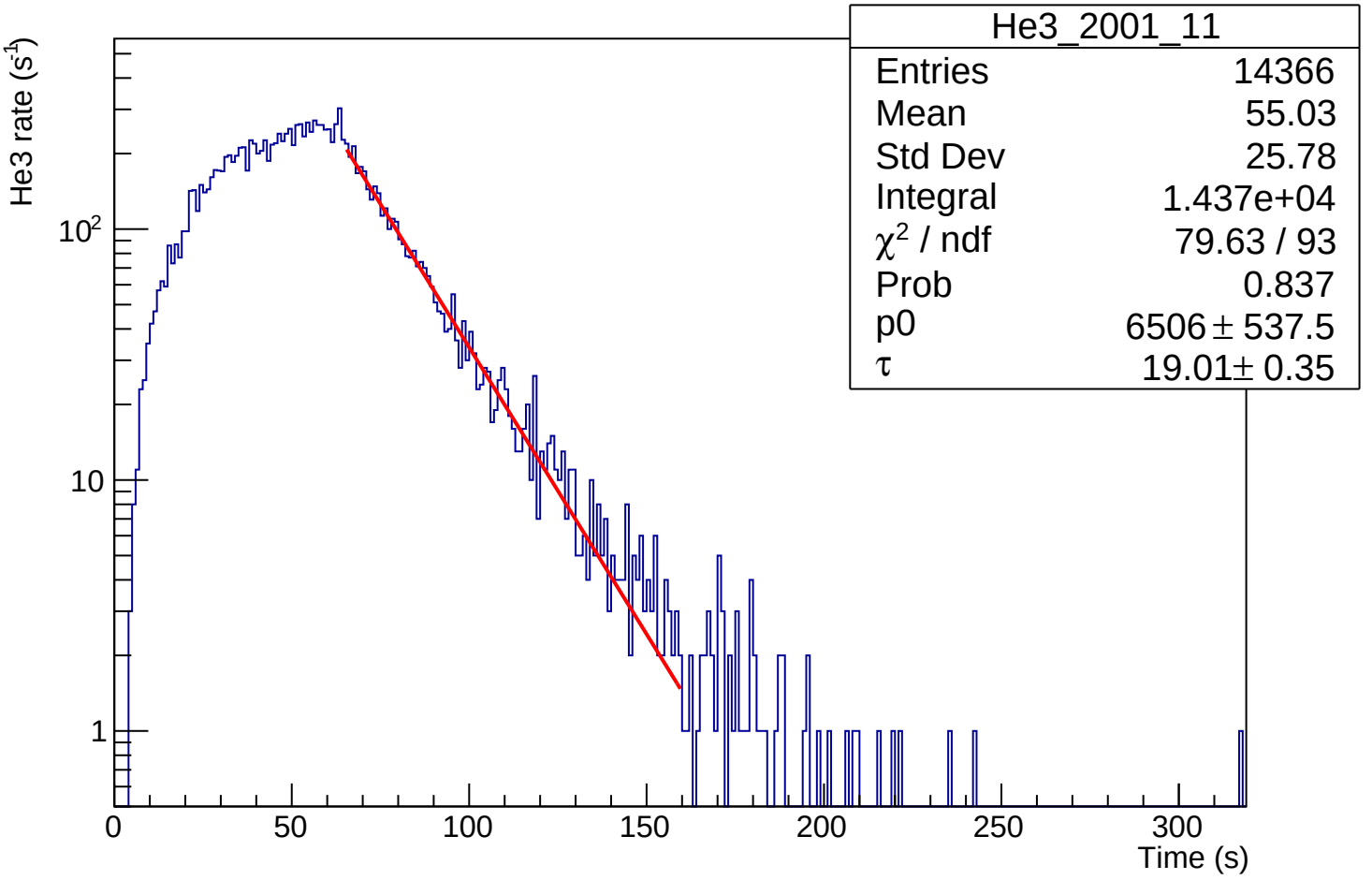

TCN19-100 (He3 rate)
He3_2001_6
Entries 14393
Mean 55.06
Std Dev 25.71
Integral 1.439e+04
χ² / ndf 103.4 / 93
Prob 0.216
p0 6596 ± 522.4
τ 18.92 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

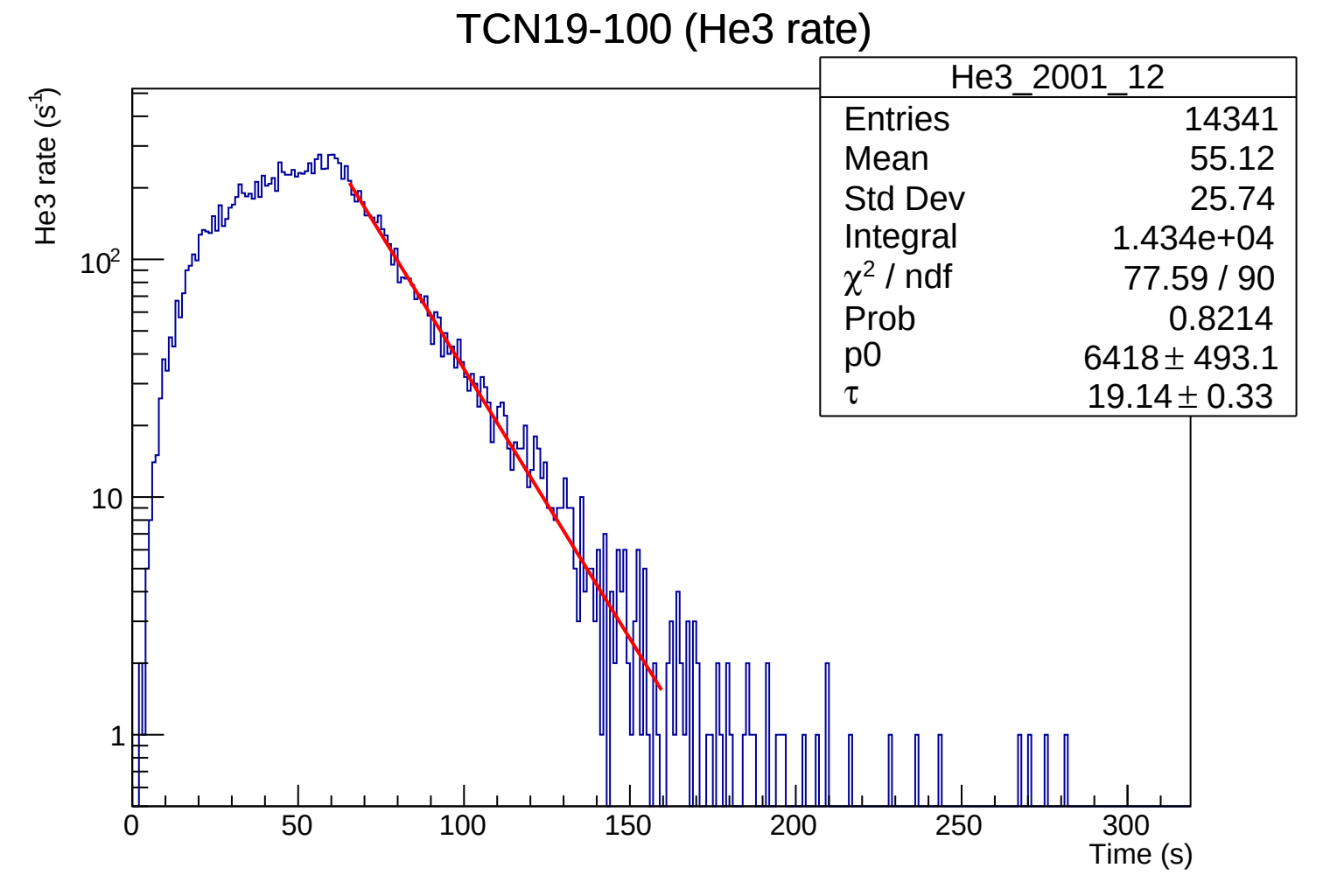

TCN19-100 (He3 rate)
He3_2001_7
Entries 14497
Mean 55.2
Std Dev 26.2
Integral 1.45e+04
χ² / ndf 74.91 / 93
Prob 0.9153
p0 6060 ± 470.5
τ 19.33 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

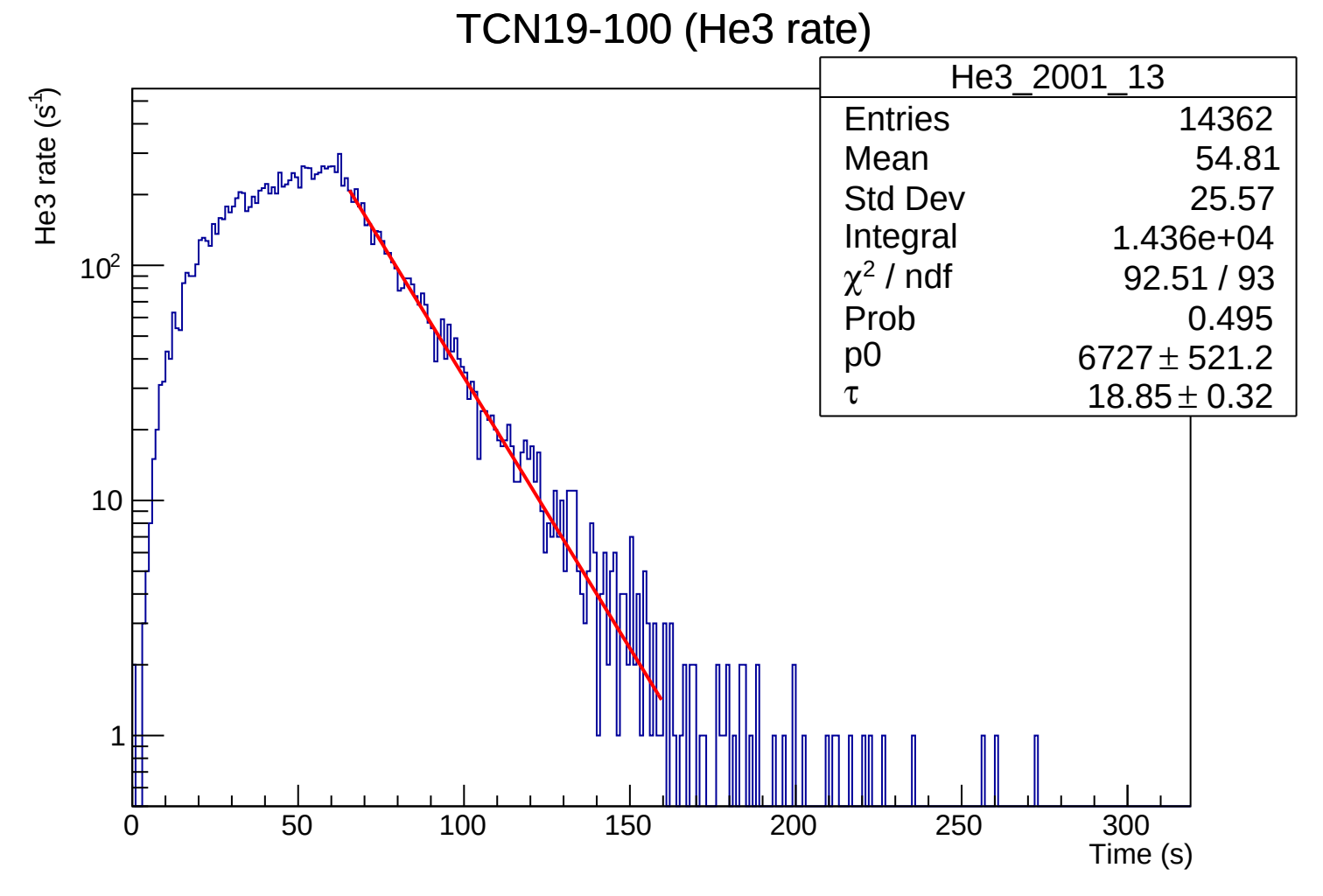

TCN19-100 (He3 rate)
He3_2001_8
Entries 14659
Mean 54.99
Std Dev 25.92
Integral 1.466e+04
χ² / ndf 91.84 / 90
Prob 0.4264
p0 5656 ± 450.8
τ 19.71 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

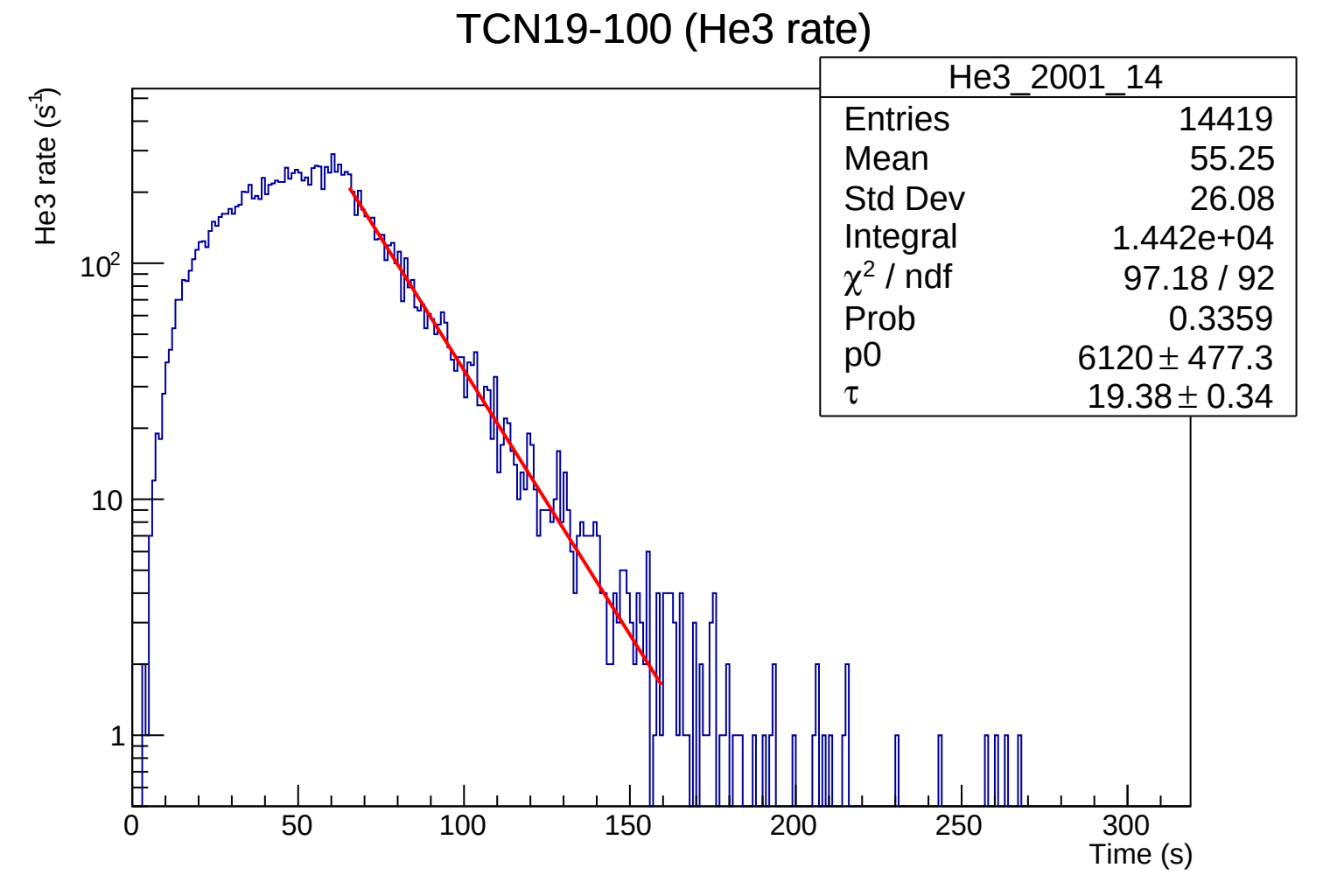

TCN19-100 (He3 rate)
He3_2001_9
Entries 14310
Mean 55.12
Std Dev 26.25
Integral 1.431e+04
χ² / ndf 89.6 / 92
Prob 0.5514
p0 6126 ± 498.5
τ 19.21 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

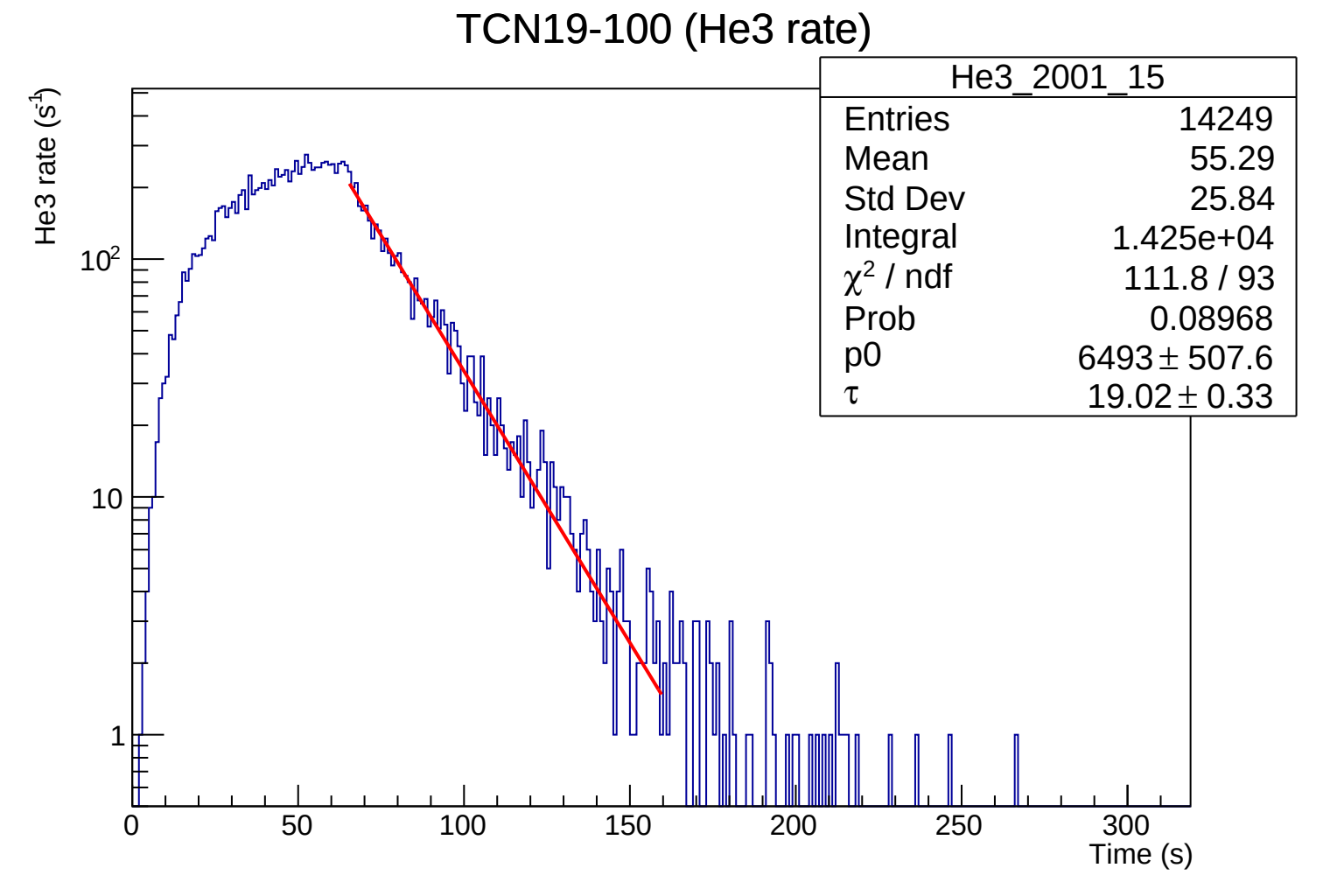

TCN19-100 (He3 rate)
He3_2001_10
Entries 14397
Mean 55.46
Std Dev 26.06
Integral 1.44e+04
χ² / ndf 89.03 / 93
Prob 0.5972
p0 5512 ± 432.2
τ 19.79 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

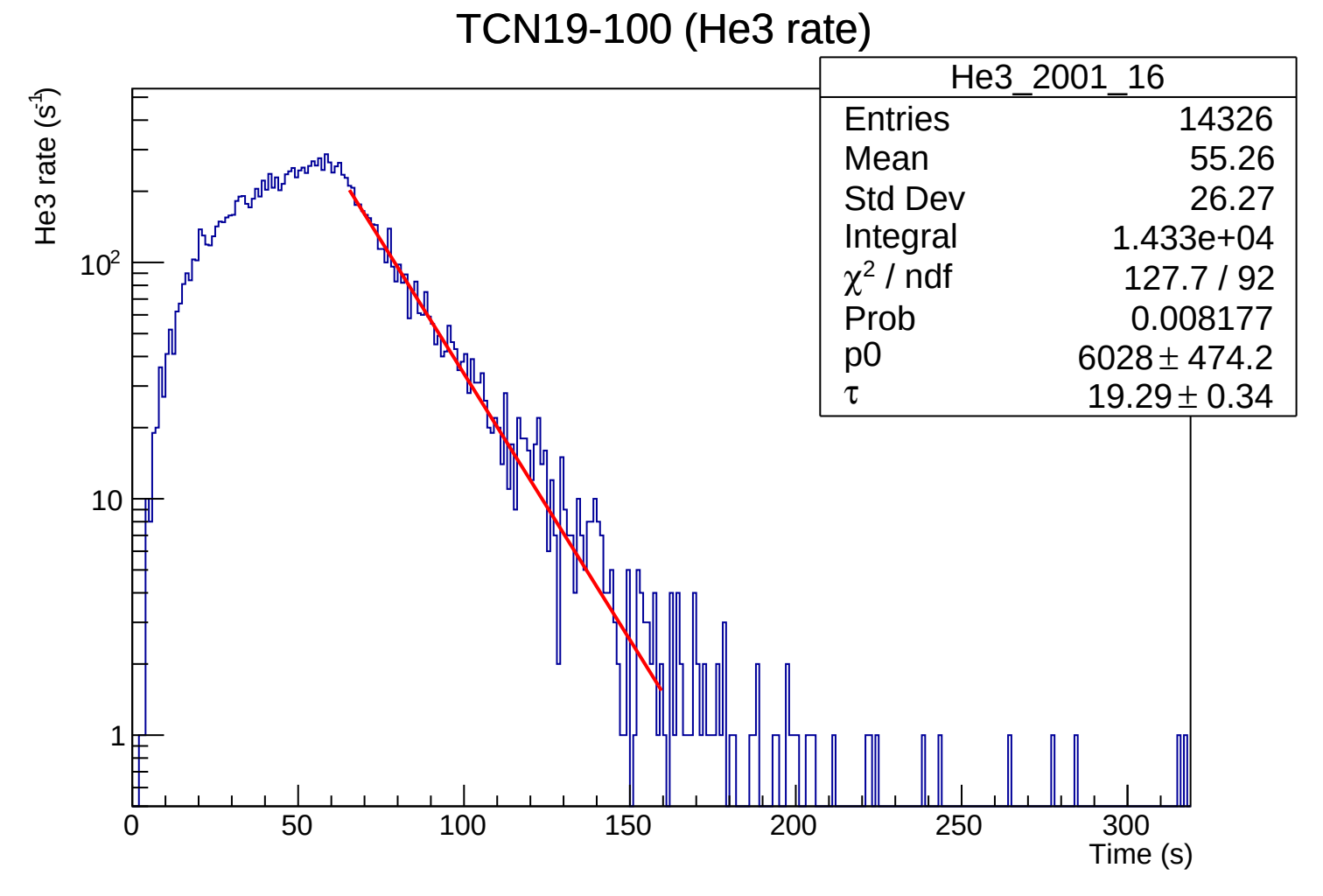

TCN19-100 (He3 rate)
He3_2001_11
Entries 14366
Mean 55.03
Std Dev 25.78
Integral 1.437e+04
χ² / ndf 79.63 / 93
Prob 0.837
p0 6506 ± 537.5
τ 19.01 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

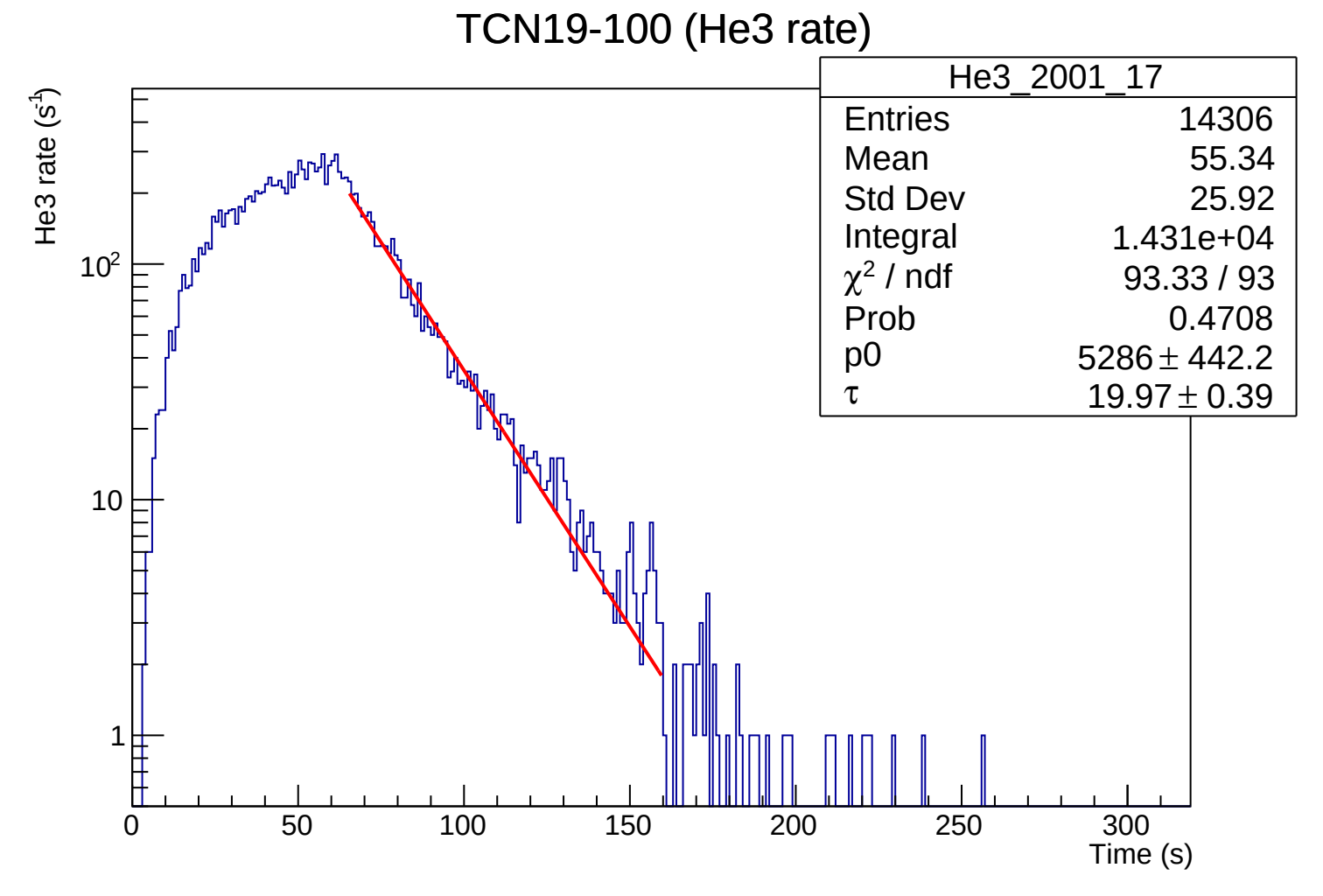

TCN19-100 (He3 rate)
He3_2001_12
Entries 14341
Mean 55.12
Std Dev 25.74
Integral 1.434e+04
χ² / ndf 77.59 / 90
Prob 0.8214
p0 6418 ± 493.1
τ 19.14 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

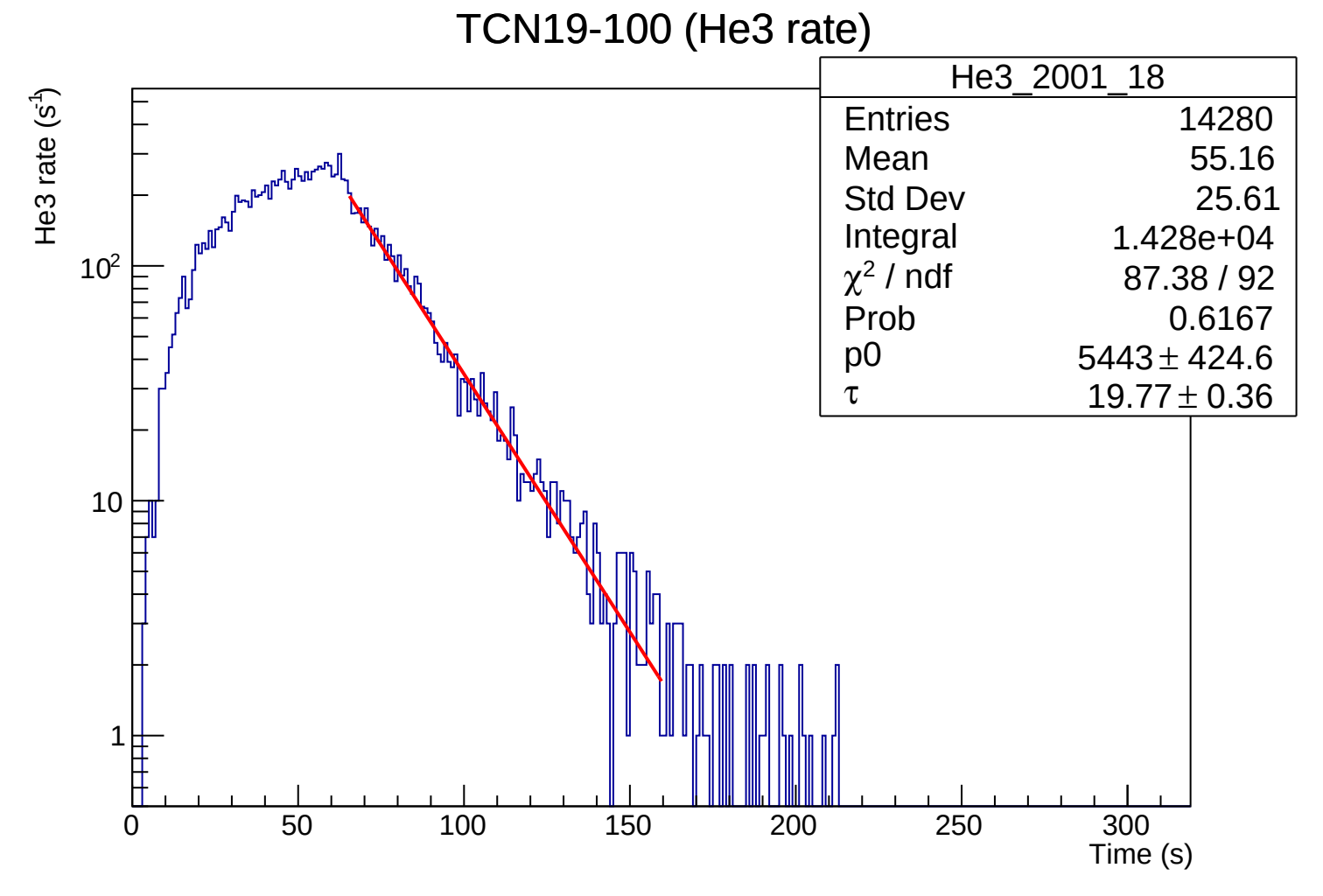

TCN19-100 (He3 rate)
He3_2001_13
Entries 14362
Mean 54.81
Std Dev 25.57
Integral 1.436e+04
χ² / ndf 92.51 / 93
Prob 0.495
p0 6727 ± 521.2
τ 18.85 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

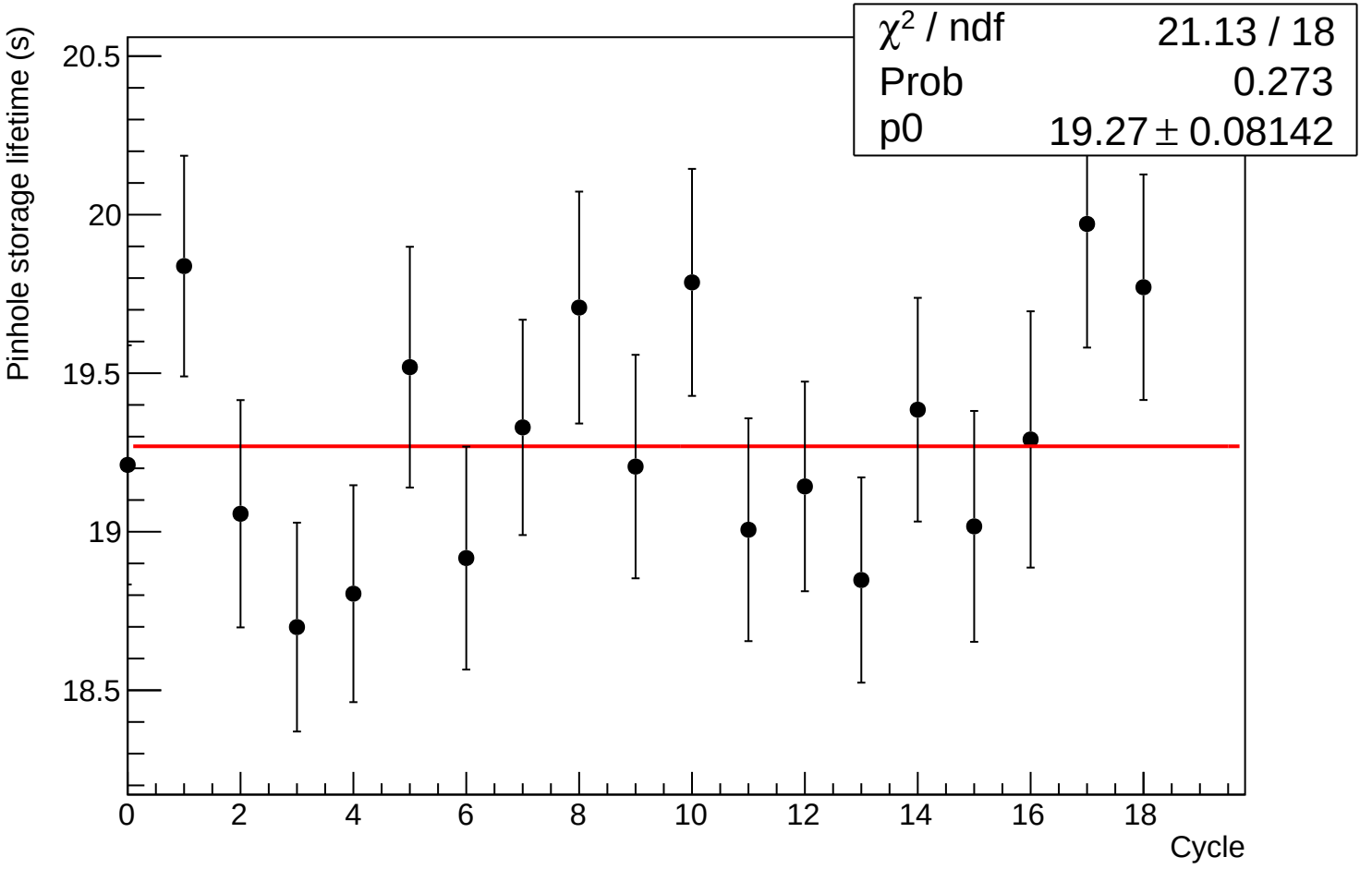

TCN19-100 (He3 rate)
He3_2001_14
Entries 14419
Mean 55.25
Std Dev 26.08
Integral 1.442e+04
χ² / ndf 97.18 / 92
Prob 0.3359
p0 6120 ± 477.3
τ 19.38 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

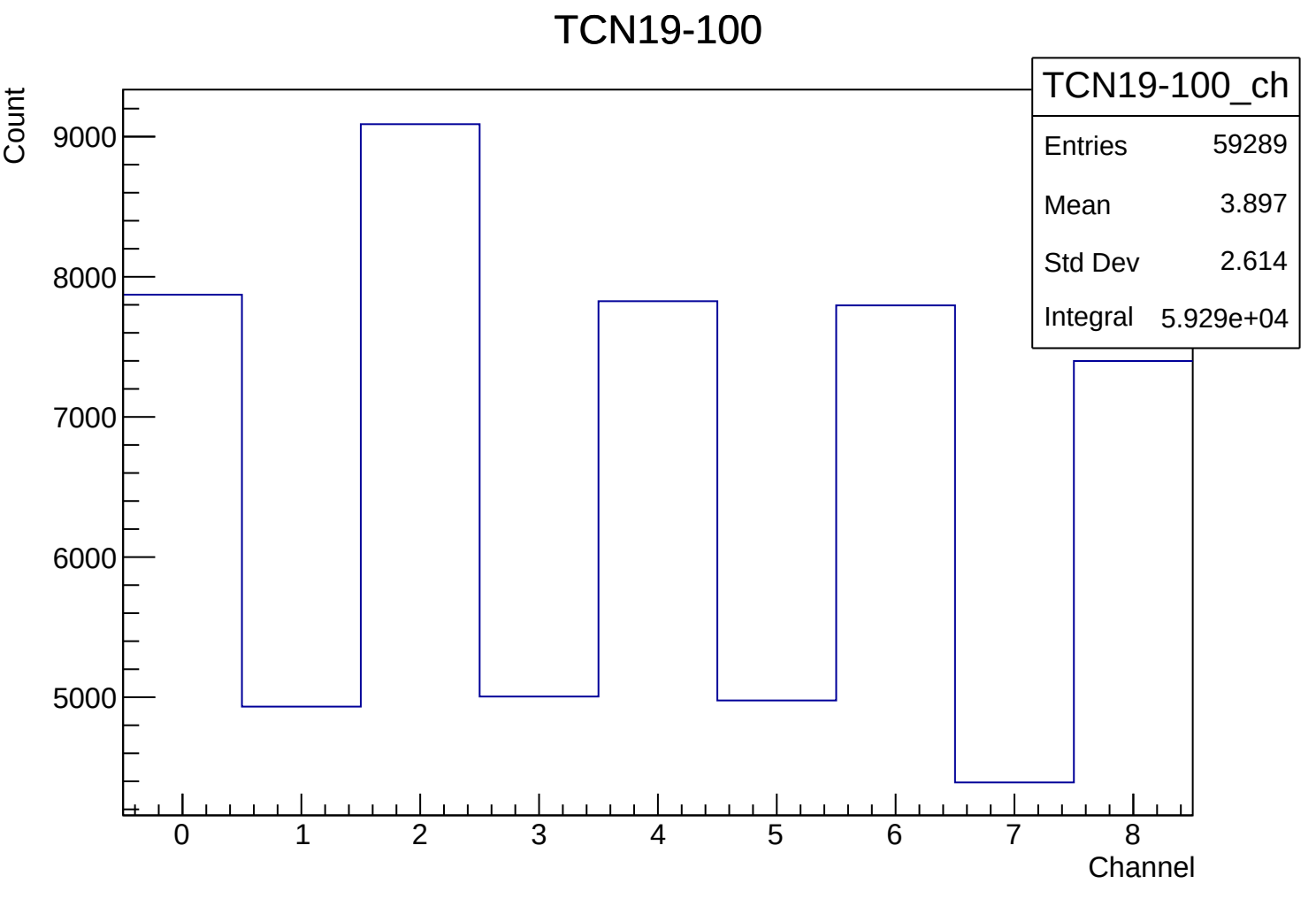

TCN19-100 (He3 rate)
He3_2001_15
Entries 14249
Mean 55.29
Std Dev 25.84
Integral 1.425e+04
χ² / ndf 111.8 / 93
Prob 0.08968
p0 6493 ± 507.6
τ 19.02 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-100 (He3 rate)
He3_2001_16
Entries 14326
Mean 55.26
Std Dev 26.27
Integral 1.433e+04
χ² / ndf 127.7 / 92
Prob 0.008177
p0 6028 ± 474.2
τ 19.29 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-100 (He3 rate)
He3_2001_17
Entries 14306
Mean 55.34
Std Dev 25.92
Integral 1.431e+04
χ² / ndf 93.33 / 93
Prob 0.4708
p0 5286 ± 442.2
τ 19.97 ± 0.39
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-100 (He3 rate)
He3_2001_18
Entries 14280
Mean 55.16
Std Dev 25.61
Integral 1.428e+04
χ² / ndf 87.38 / 92
Prob 0.6167
p0 5443 ± 424.6
τ 19.77 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


χ^2 / ndf 21.13 / 18
Prob 0.273
p0 19.27 ± 0.08142
Pinhole storage lifetime (s)
20.5
20
19.5
19
18.5
0
2
4
6
8
10
12
14
16
18
Cycle


TCN19-100
TCN19-100_ch
Entries 59289
Mean 3.897
Std Dev 2.614
Integral 5.929e+04
Count
9000
8000
7000
6000
5000
0
1
2
3
4
5
6
7
8
Channel