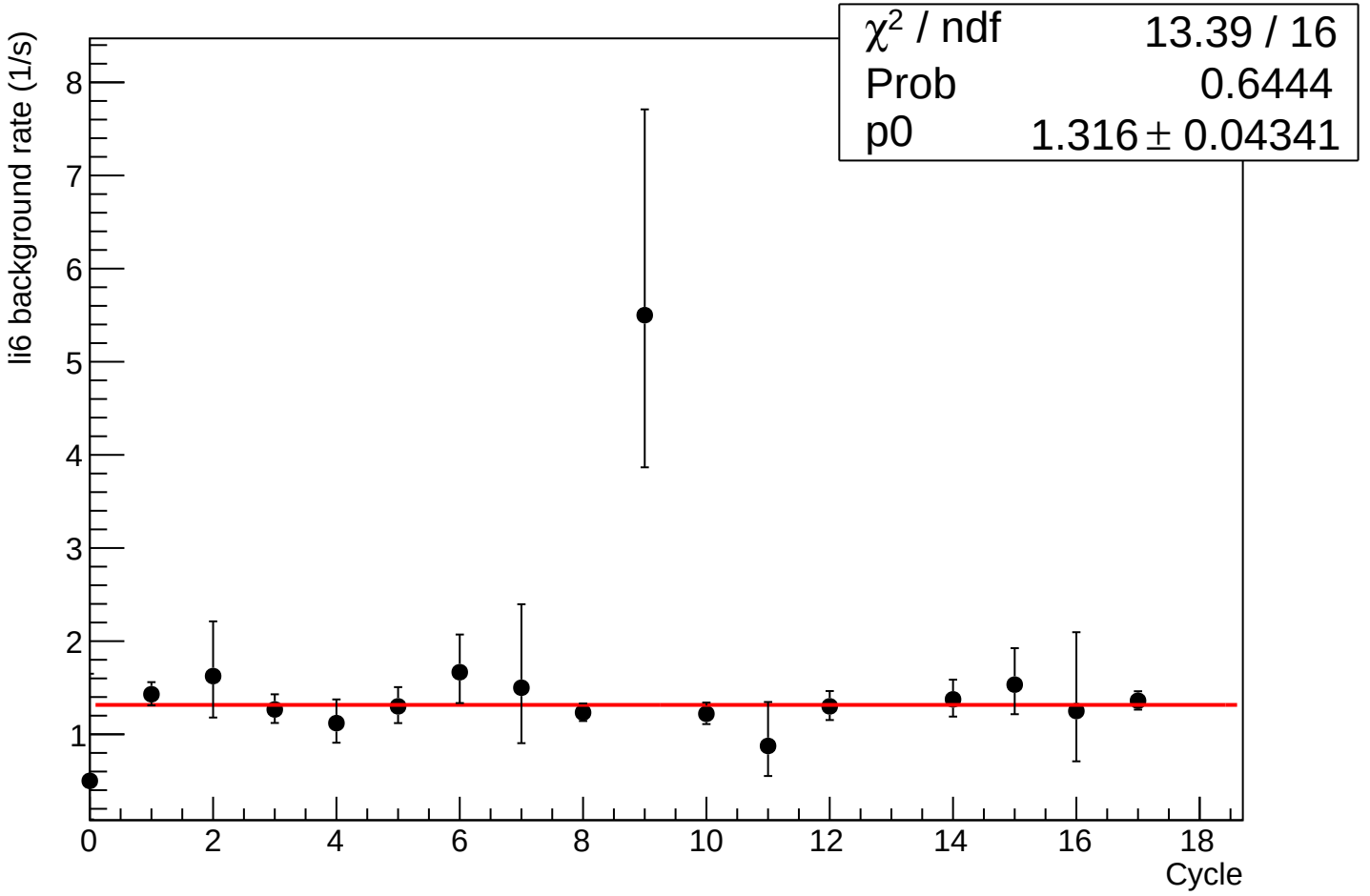
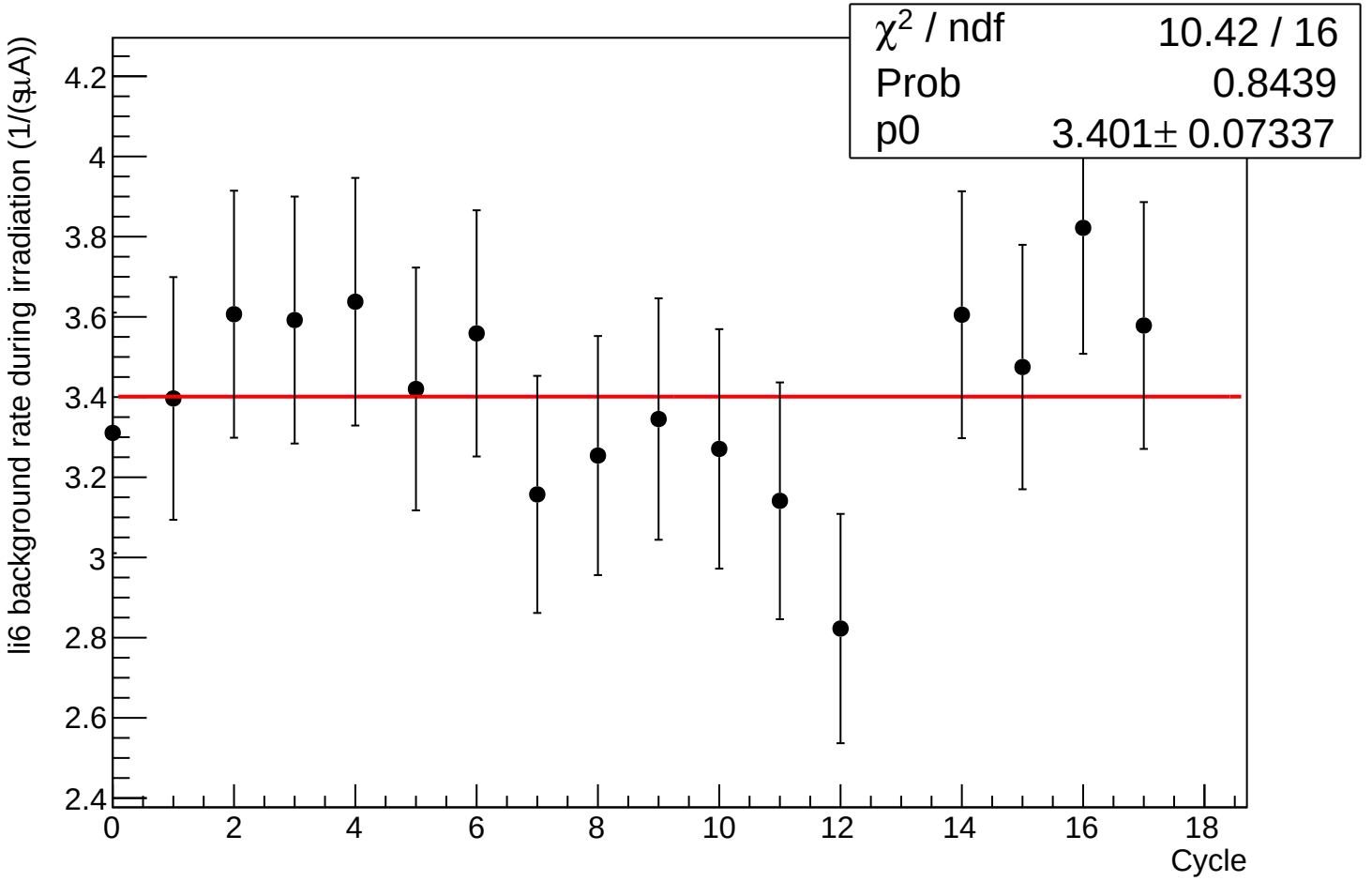
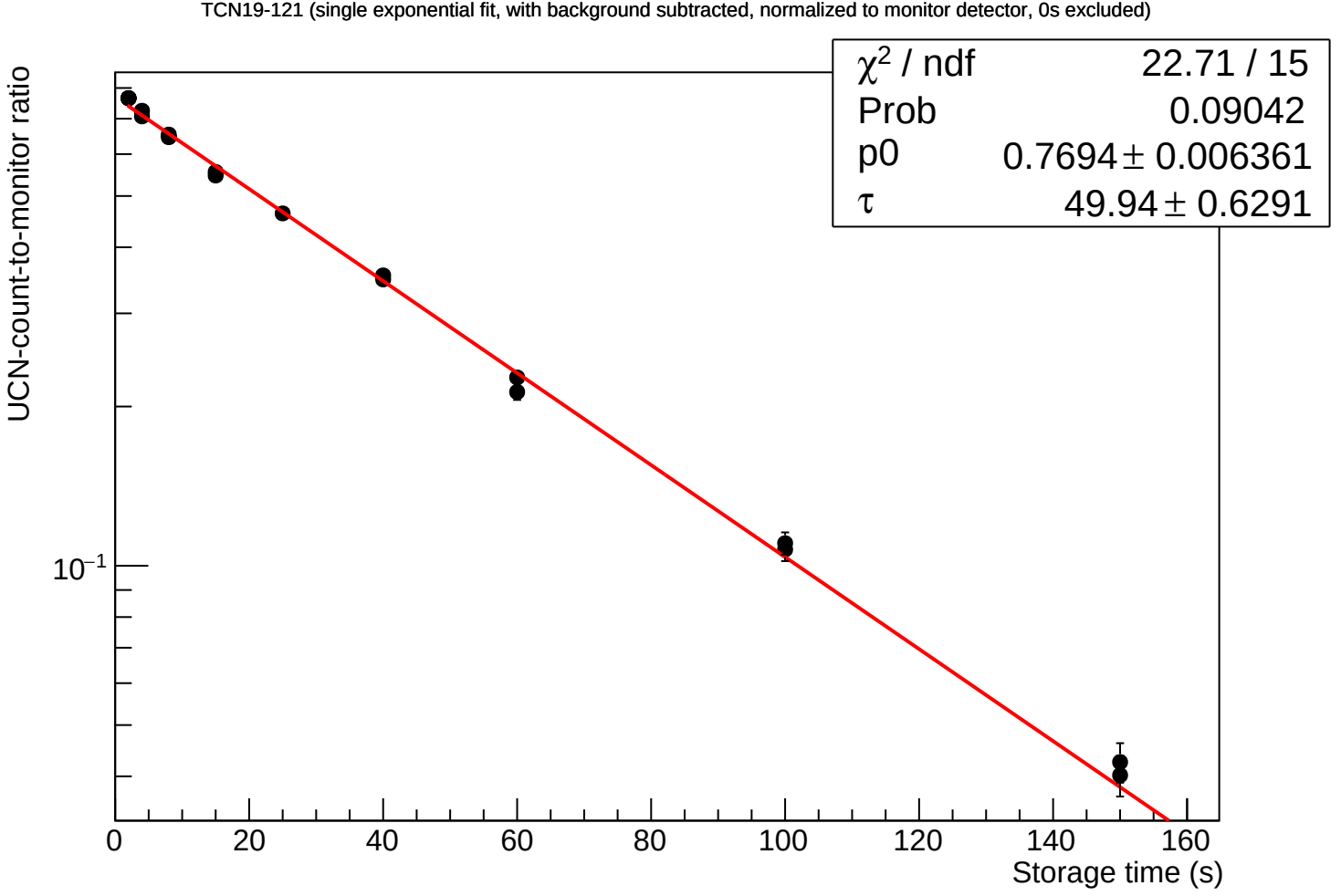
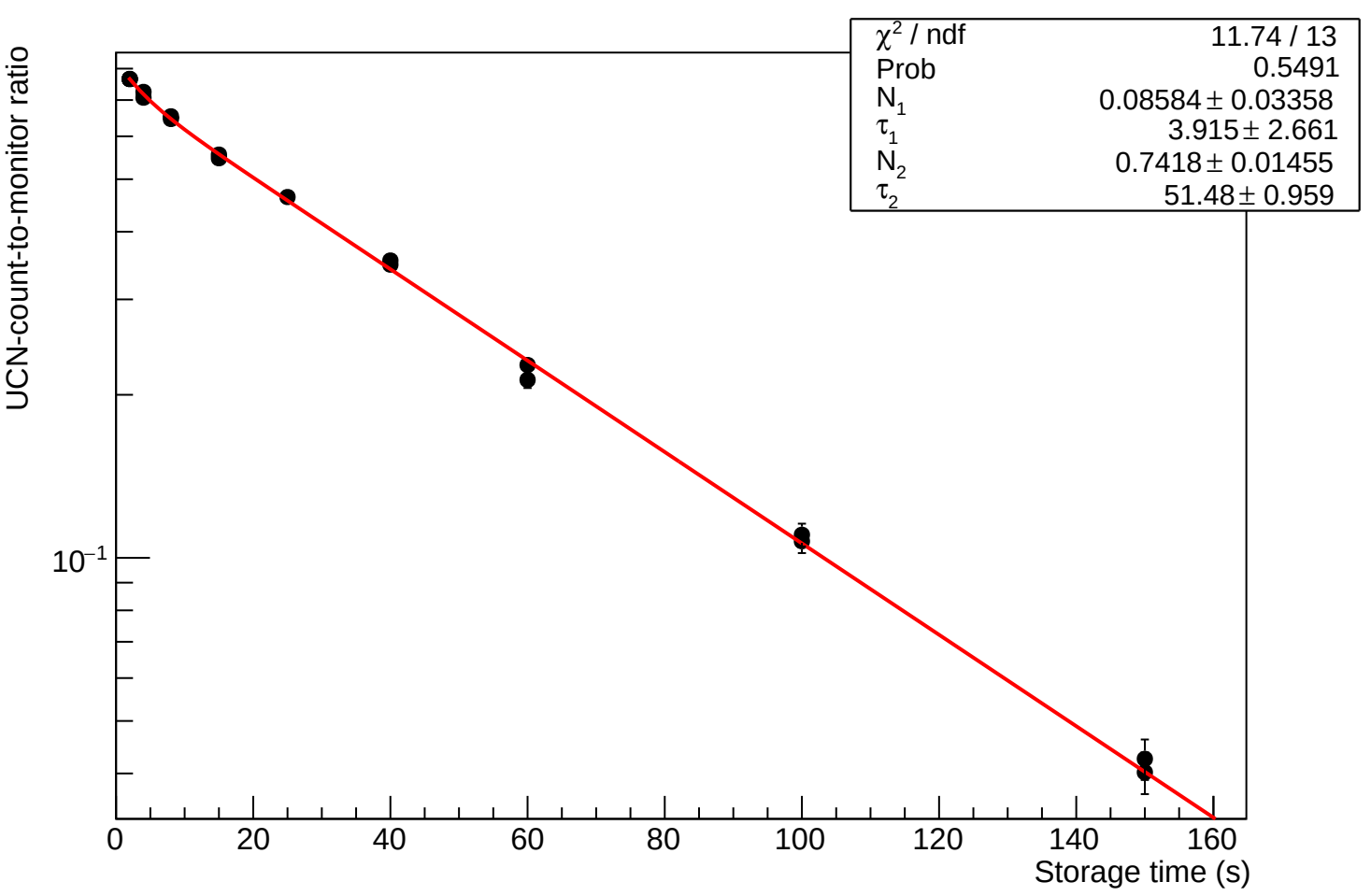
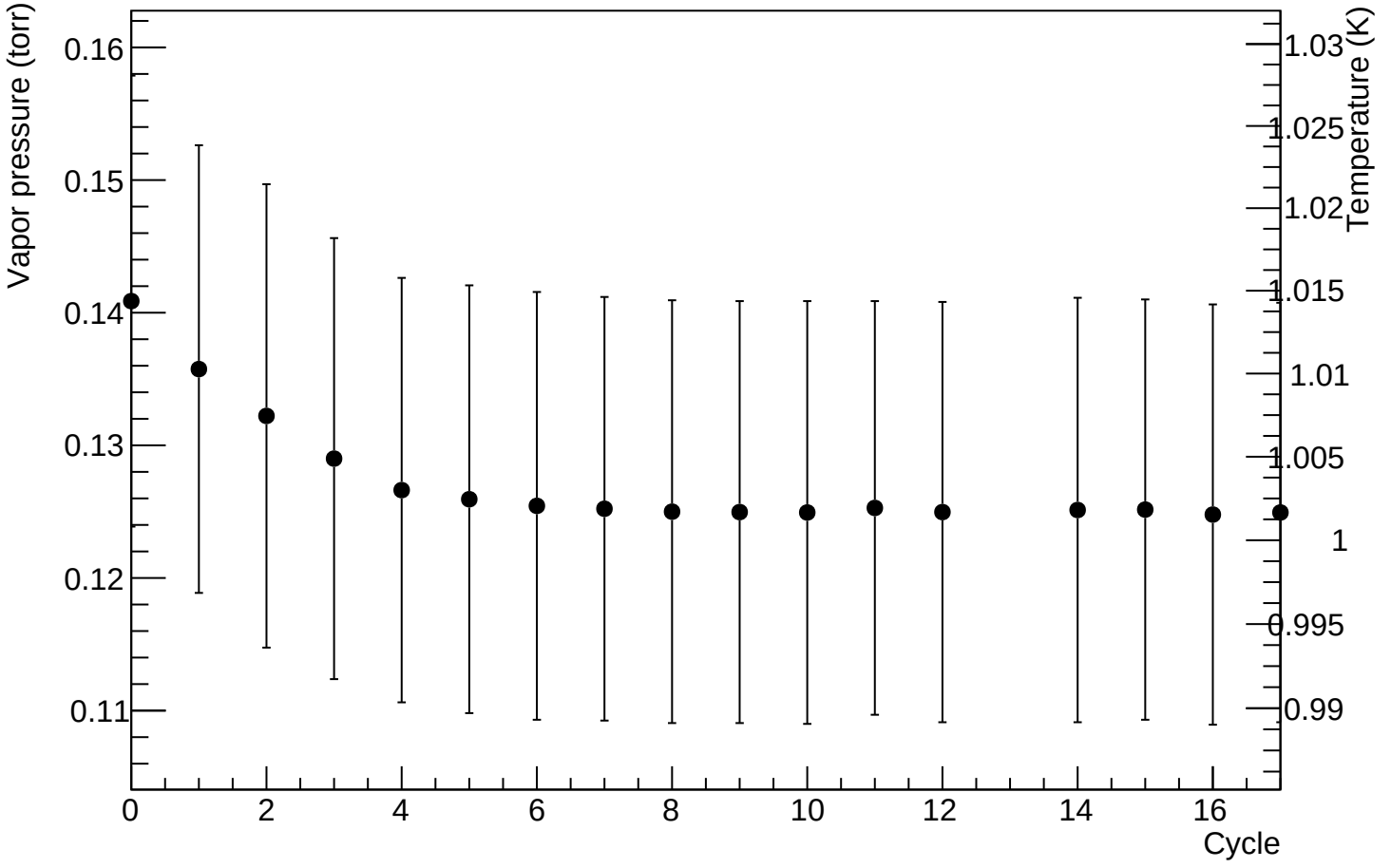
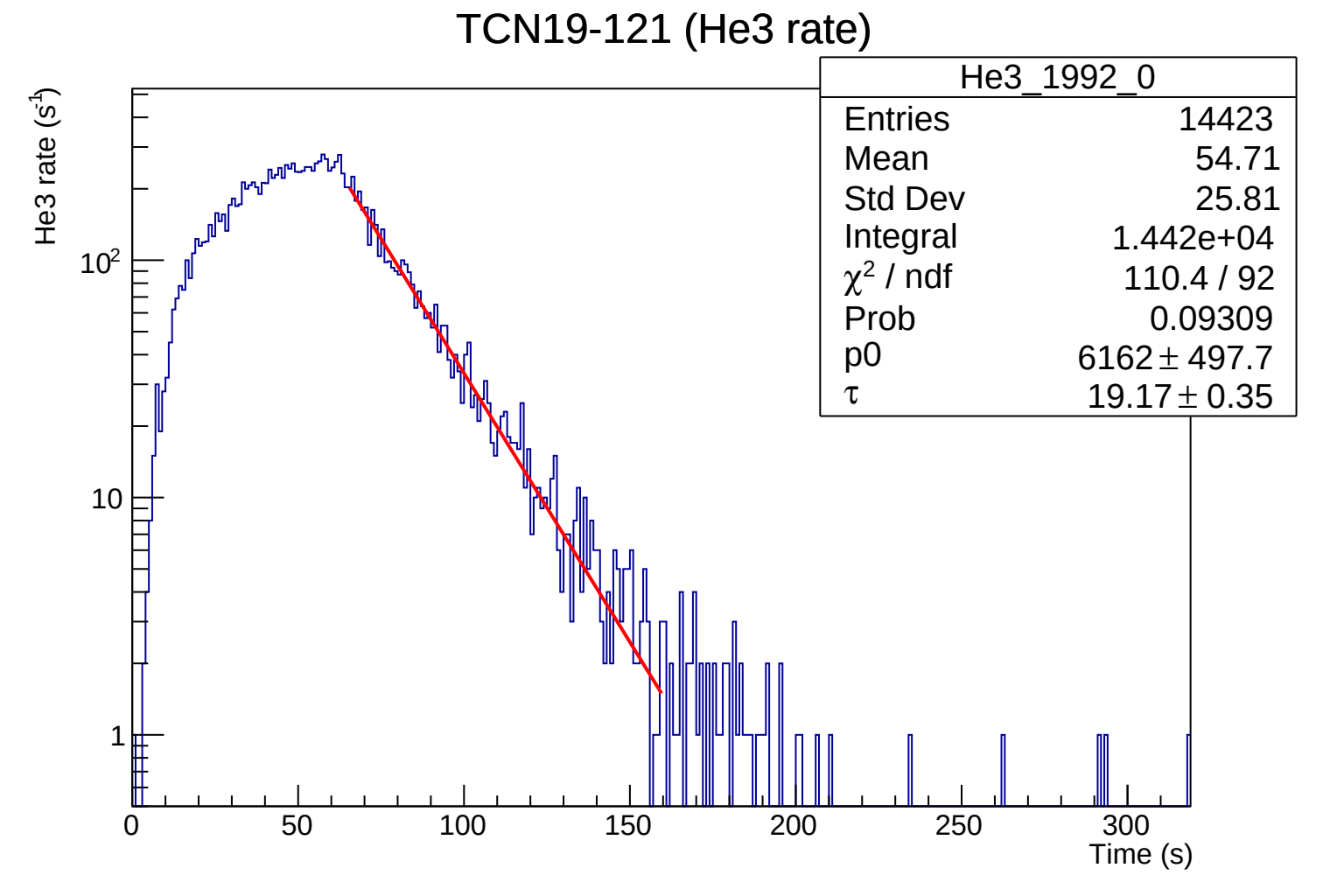

χ^2 / ndf 13.39 / 16
Prob 0.6444
p0 1.316 ± 0.04341
li6 background rate (1/s)
Cycle
0
2
4
6
8
10
12
14
16
18
1
2
3
4
5
6
7
8

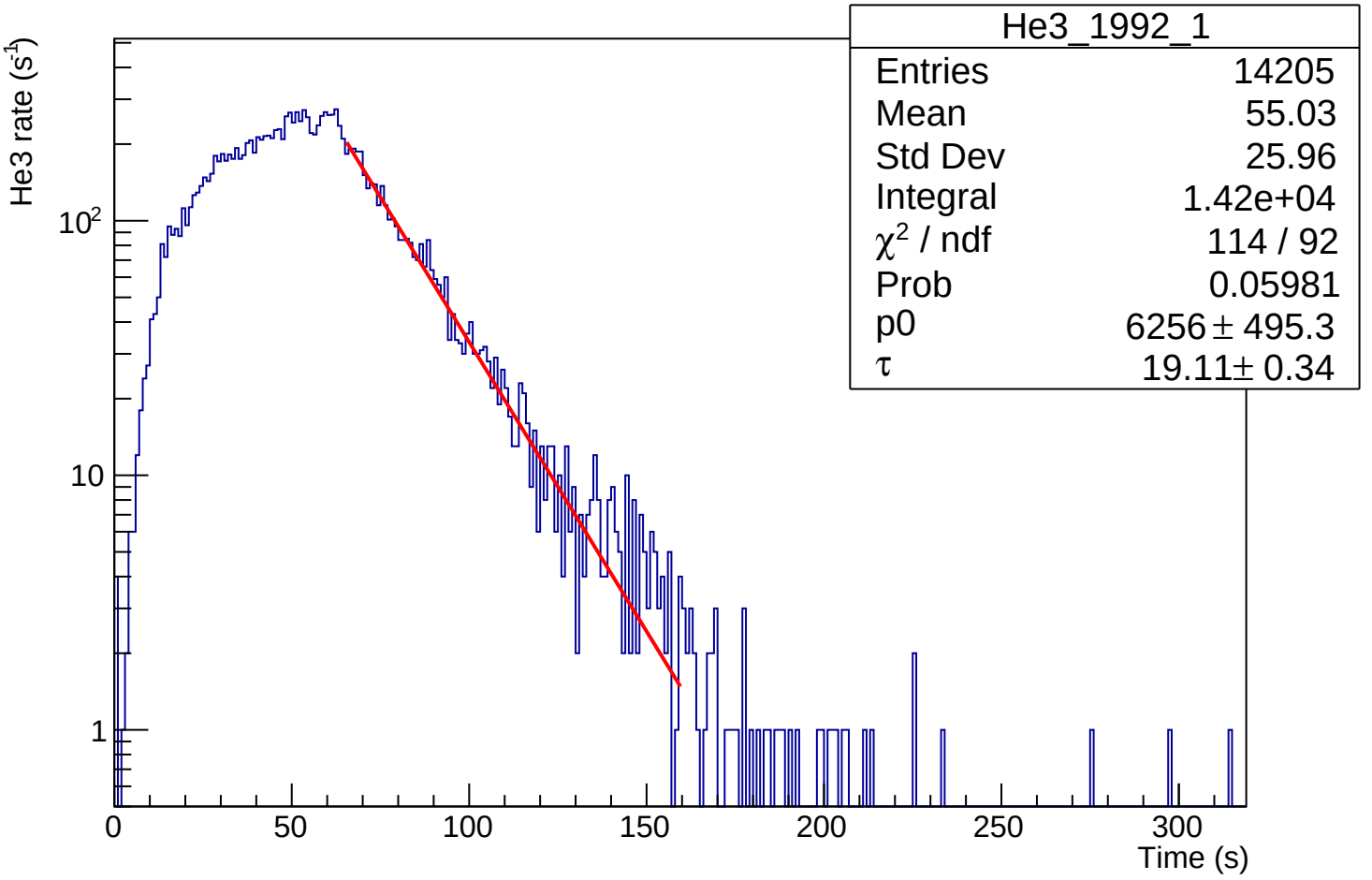

χ² / ndf 10.42 / 16
Prob 0.8439
p0 3.401± 0.07337
li6 background rate during irradiation (1/(μA))
Cycle
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
0
2
4
6
8
10
12
14
16
18

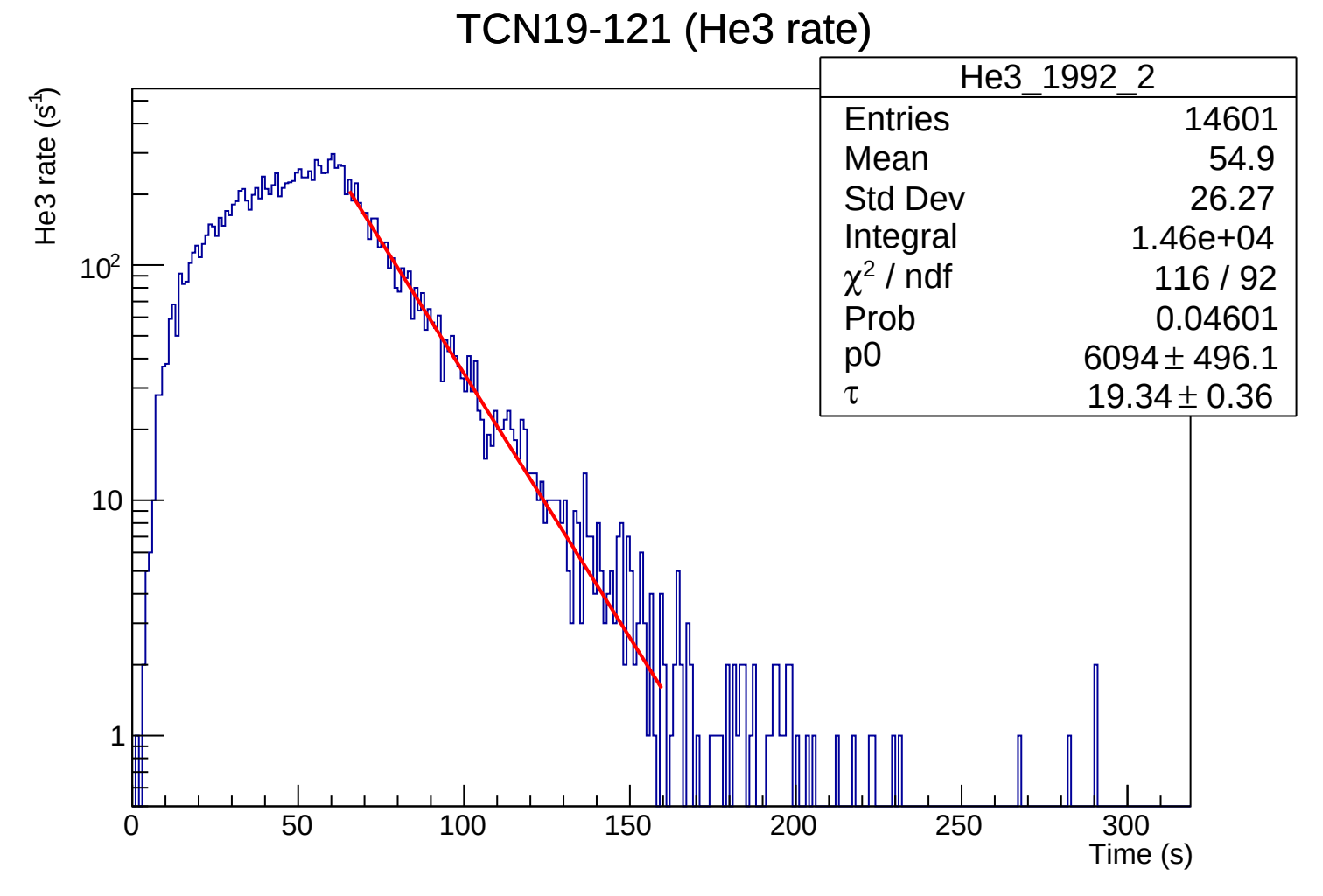

TCN19-121 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 22.71 / 15
Prob 0.09042
p0 0.7694 ± 0.006361
τ 49.94 ± 0.6291
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

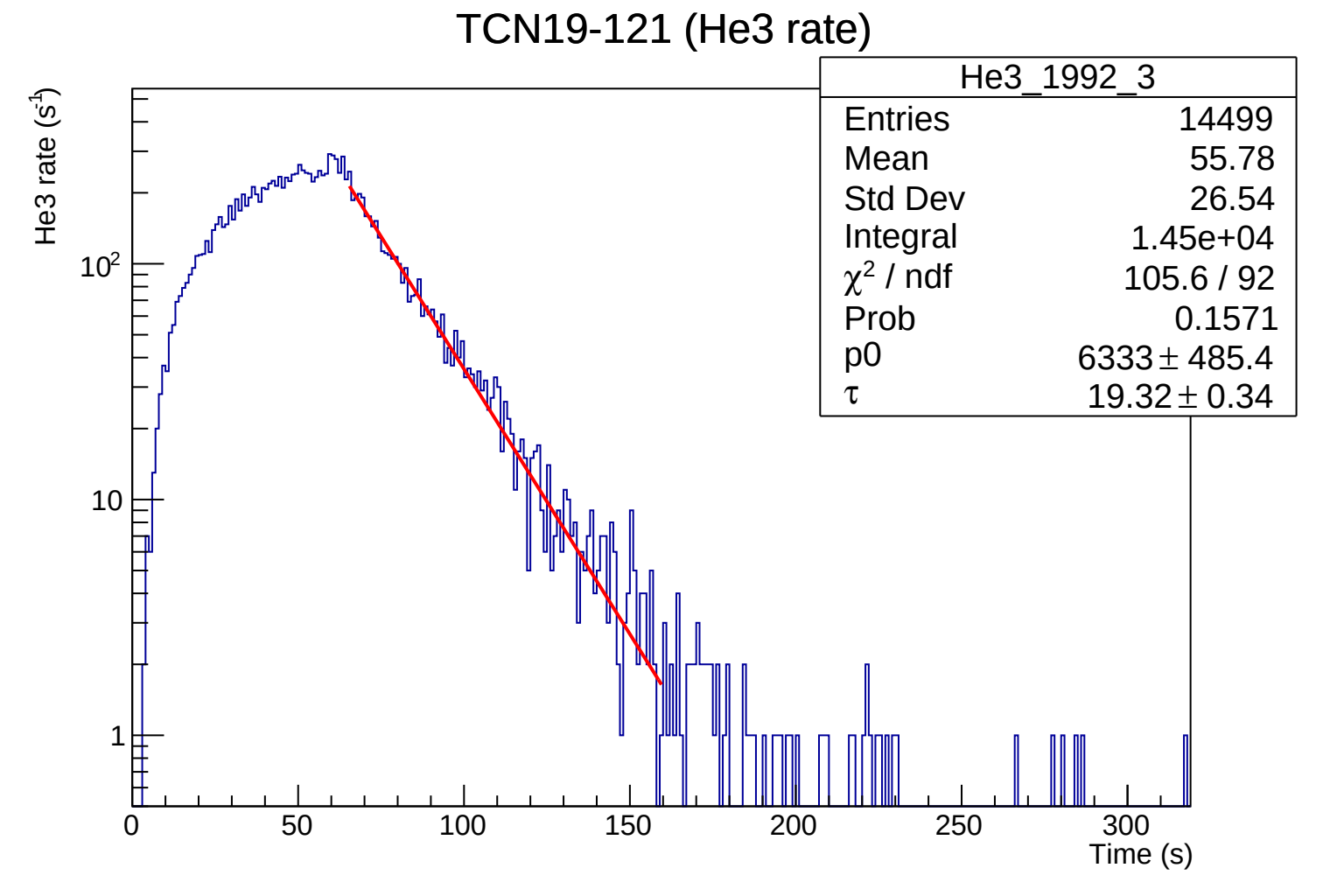

TCN19-121 (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 11.74 / 13
Prob 0.5491
N1 0.08584 ± 0.03358
τ1 3.915 ± 2.661
N2 0.7418 ± 0.01455
τ2 51.48 ± 0.959
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
120
140
160
Storage time (s)

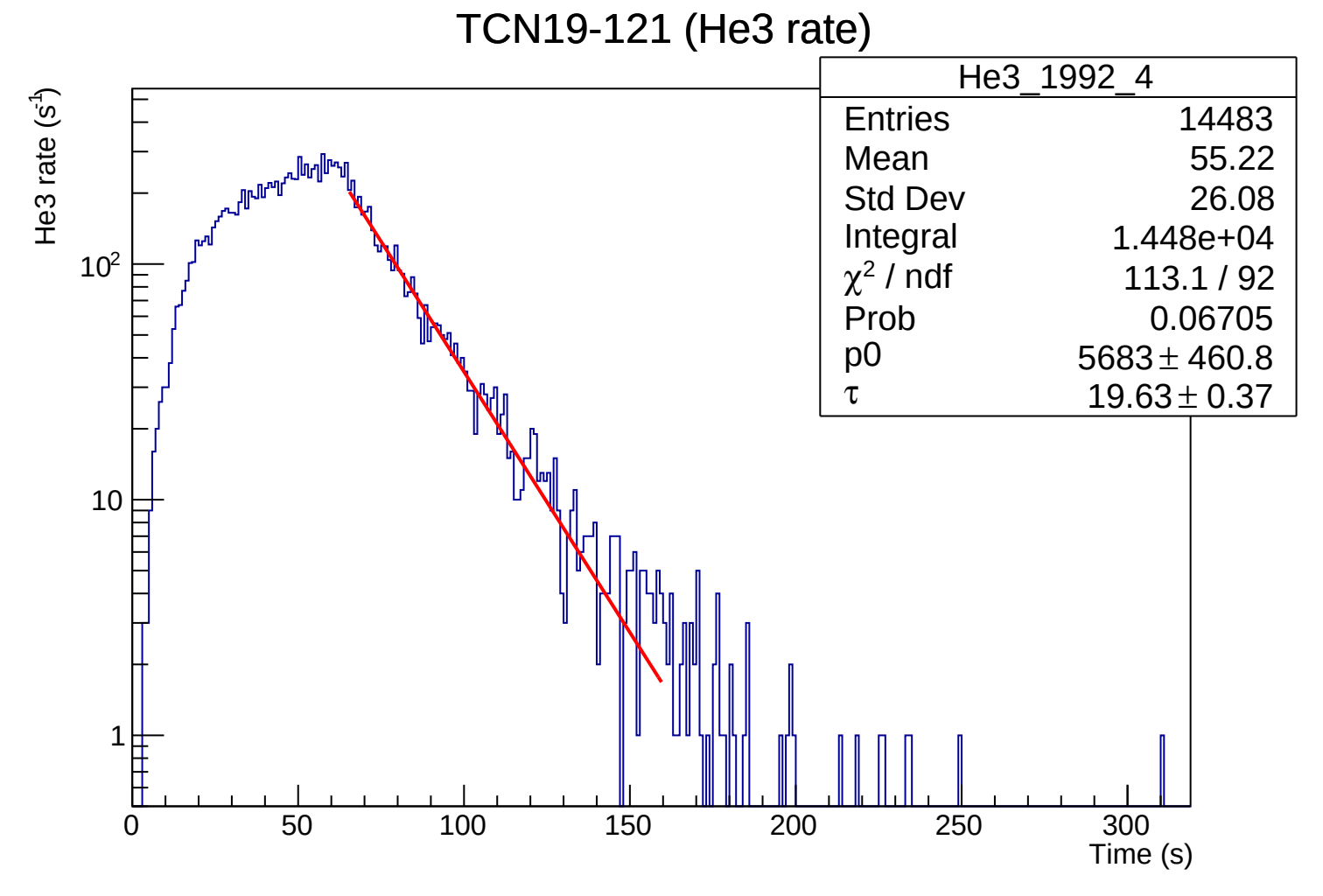

Graph
Vapor pressure (torr)
0.16
0.15
0.14
0.13
0.12
0.11
Temperature (K)
1.03
1.025
1.02
1.015
1.01
1.005
1
0.995
0.99
0
2
4
6
8
10
12
14
16
Cycle

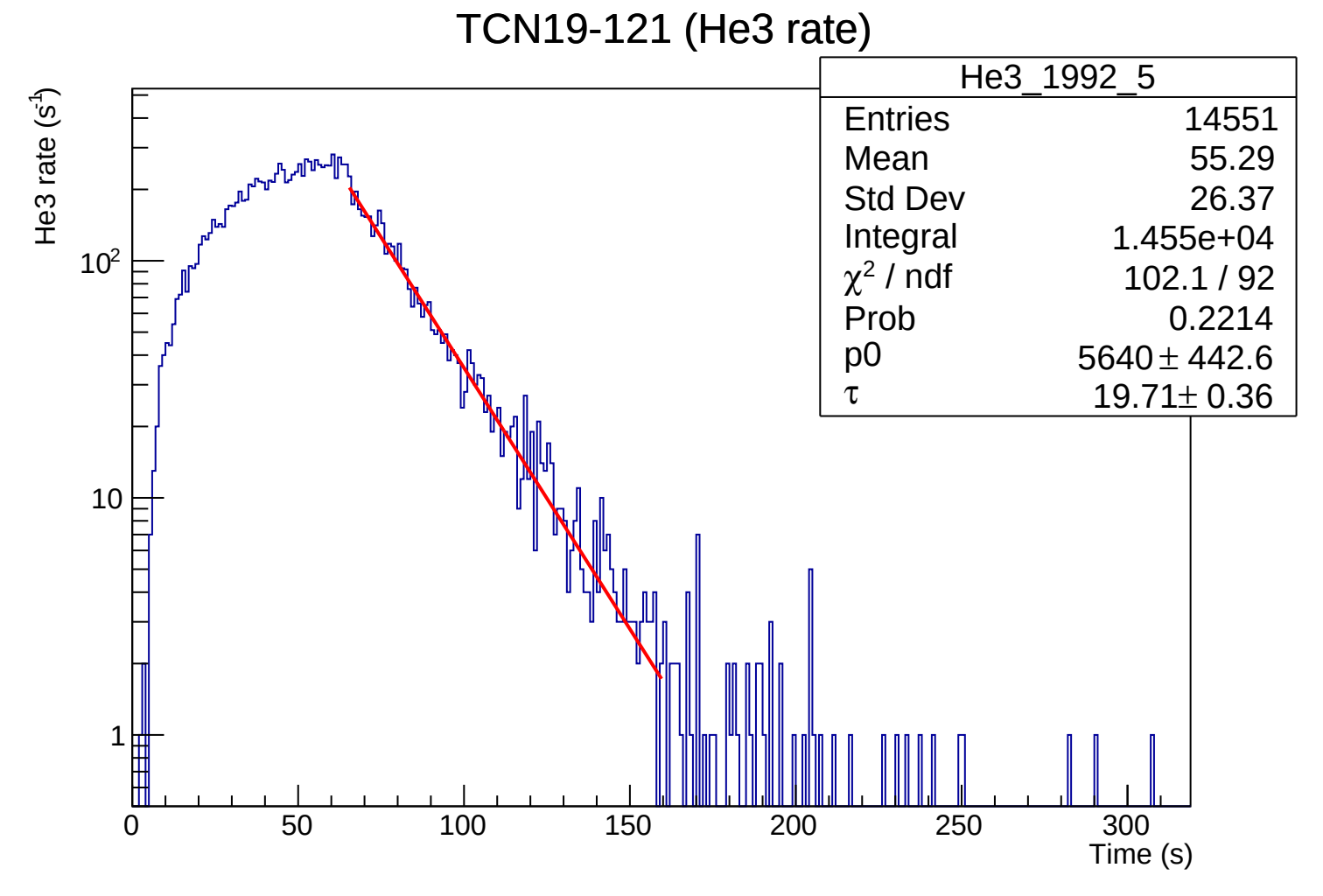

TCN19-121 (He3 rate)
He3_1992_0
Entries 14423
Mean 54.71
Std Dev 25.81
Integral 1.442e+04
χ² / ndf 110.4 / 92
Prob 0.09309
p0 6162 ± 497.7
τ 19.17 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

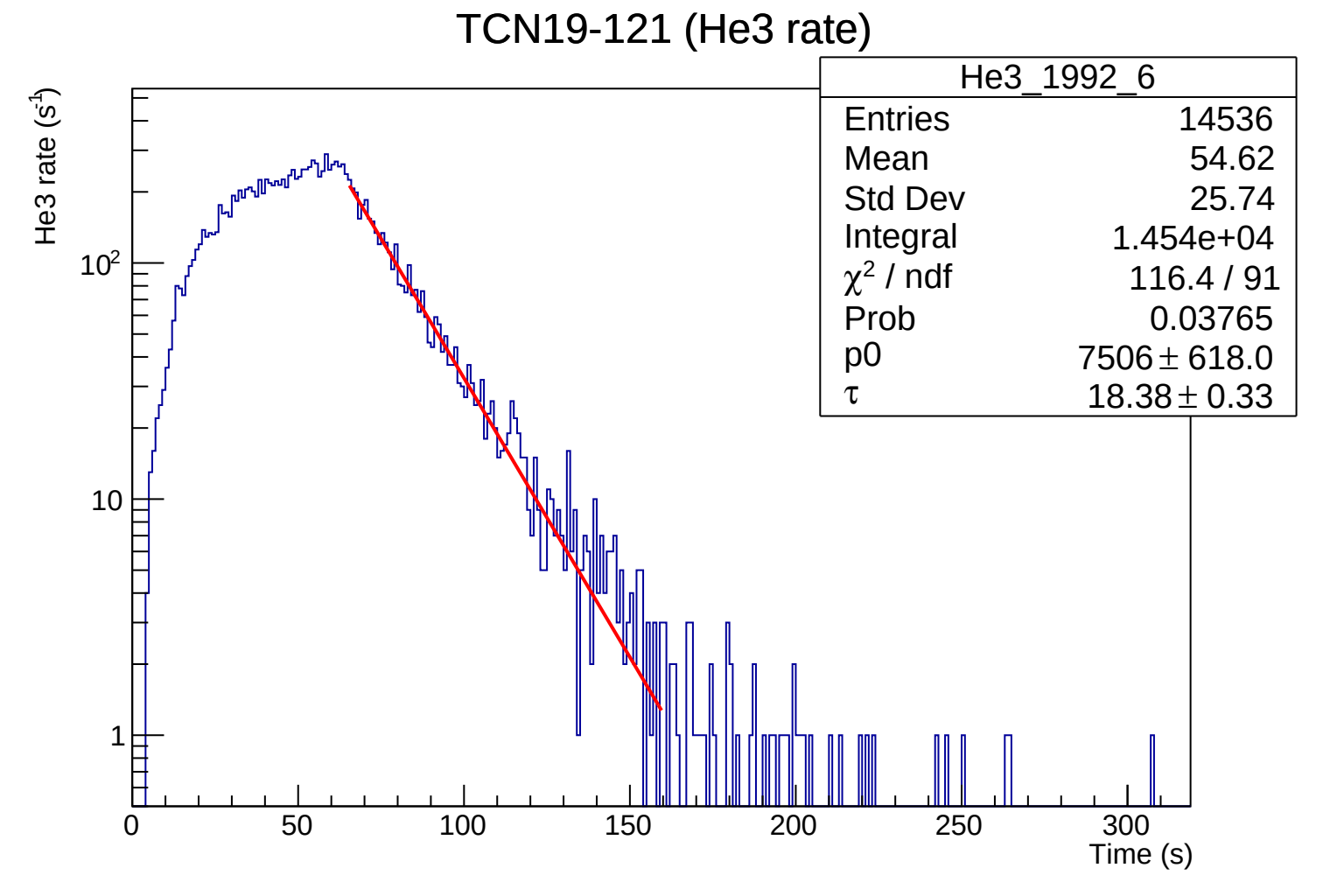

TCN19-121 (He3 rate)
He3_1992_1
Entries 14205
Mean 55.03
Std Dev 25.96
Integral 1.42e+04
χ² / ndf 114 / 92
Prob 0.05981
p0 6256 ± 495.3
τ 19.11 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

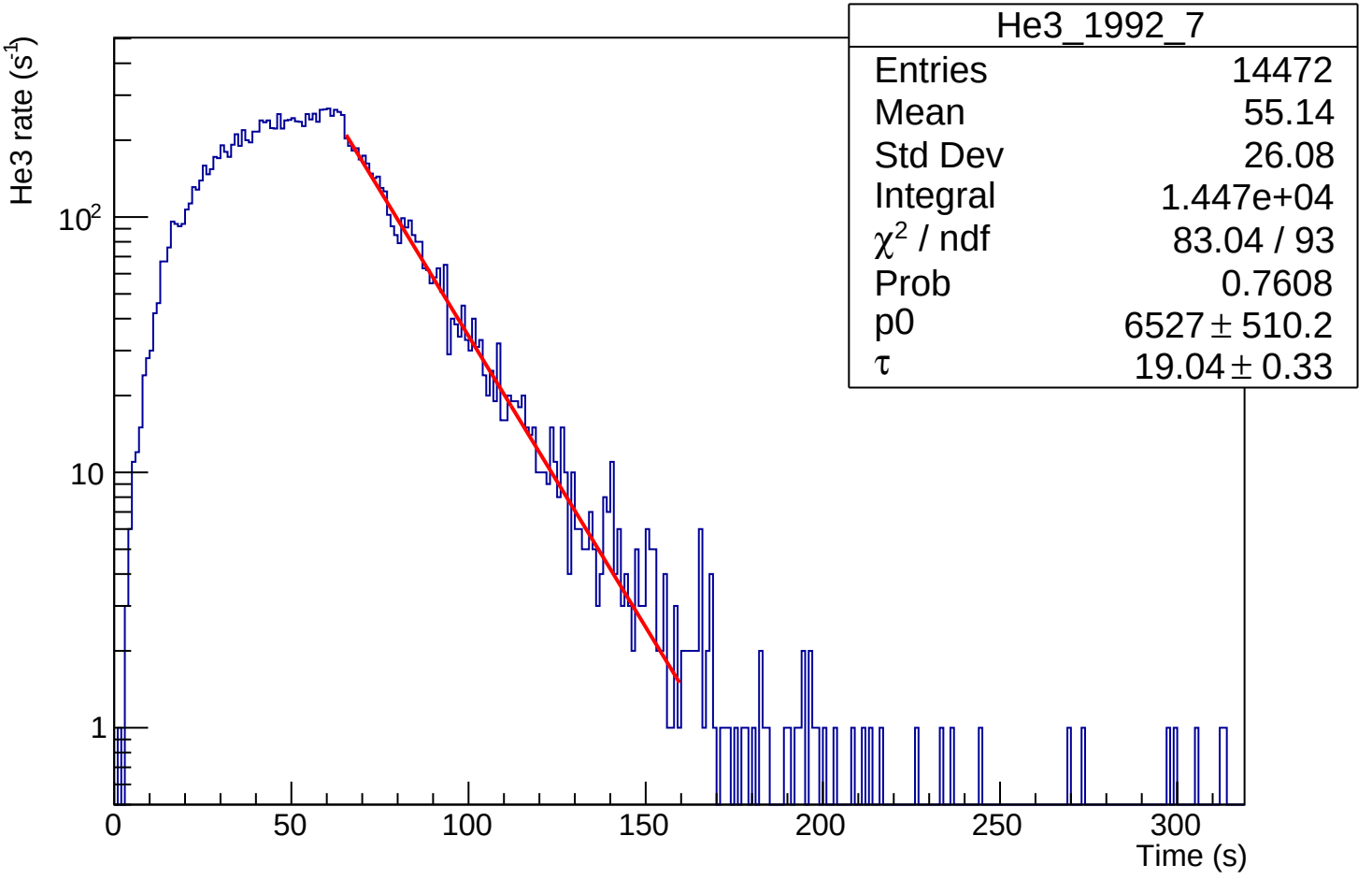

TCN19-121 (He3 rate)
He3_1992_2
Entries 14601
Mean 54.9
Std Dev 26.27
Integral 1.46e+04
χ² / ndf 116 / 92
Prob 0.04601
p0 6094 ± 496.1
τ 19.34 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

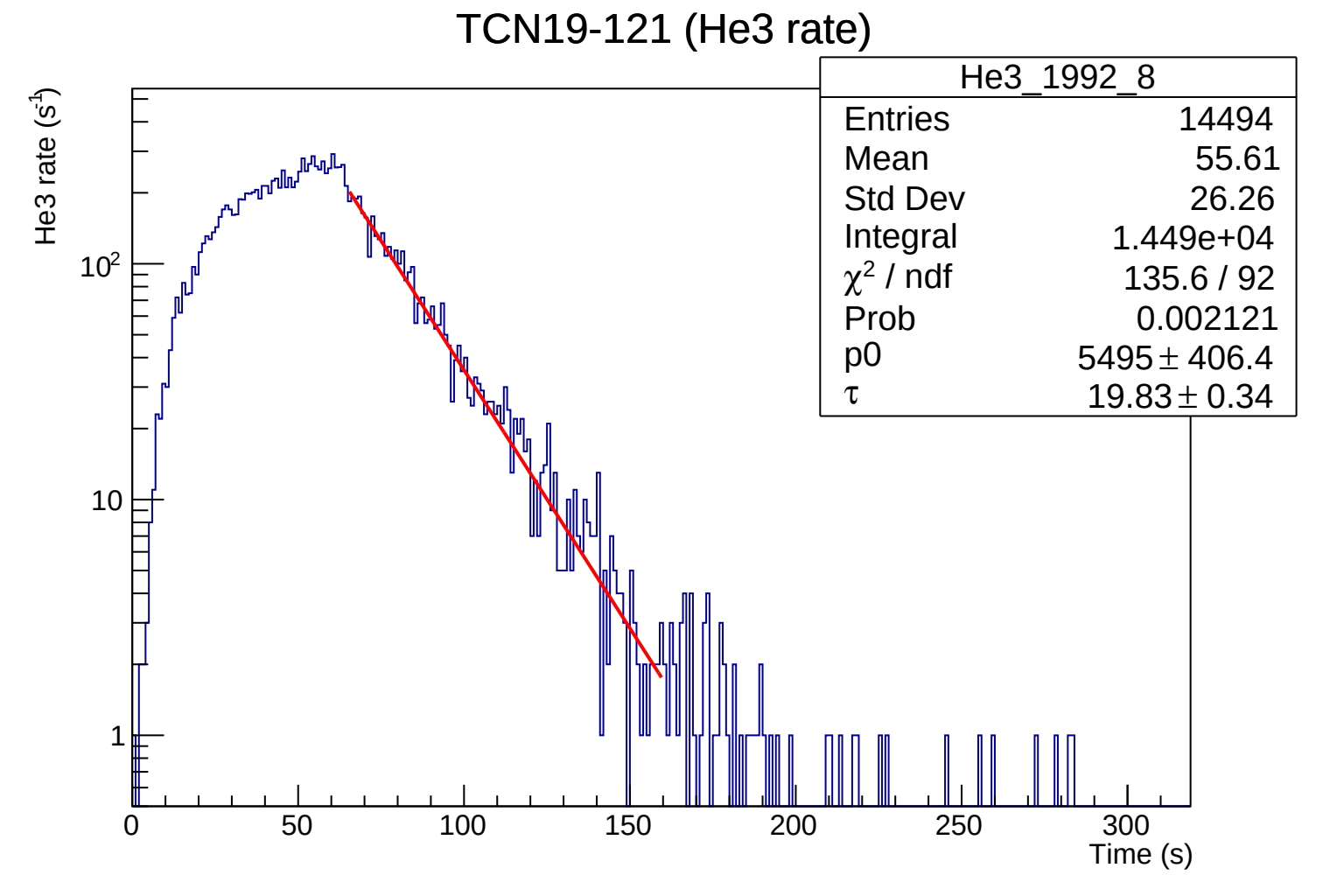

TCN19-121 (He3 rate)
He3_1992_3
Entries 14499
Mean 55.78
Std Dev 26.54
Integral 1.45e+04
χ² / ndf 105.6 / 92
Prob 0.1571
p0 6333 ± 485.4
τ 19.32 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

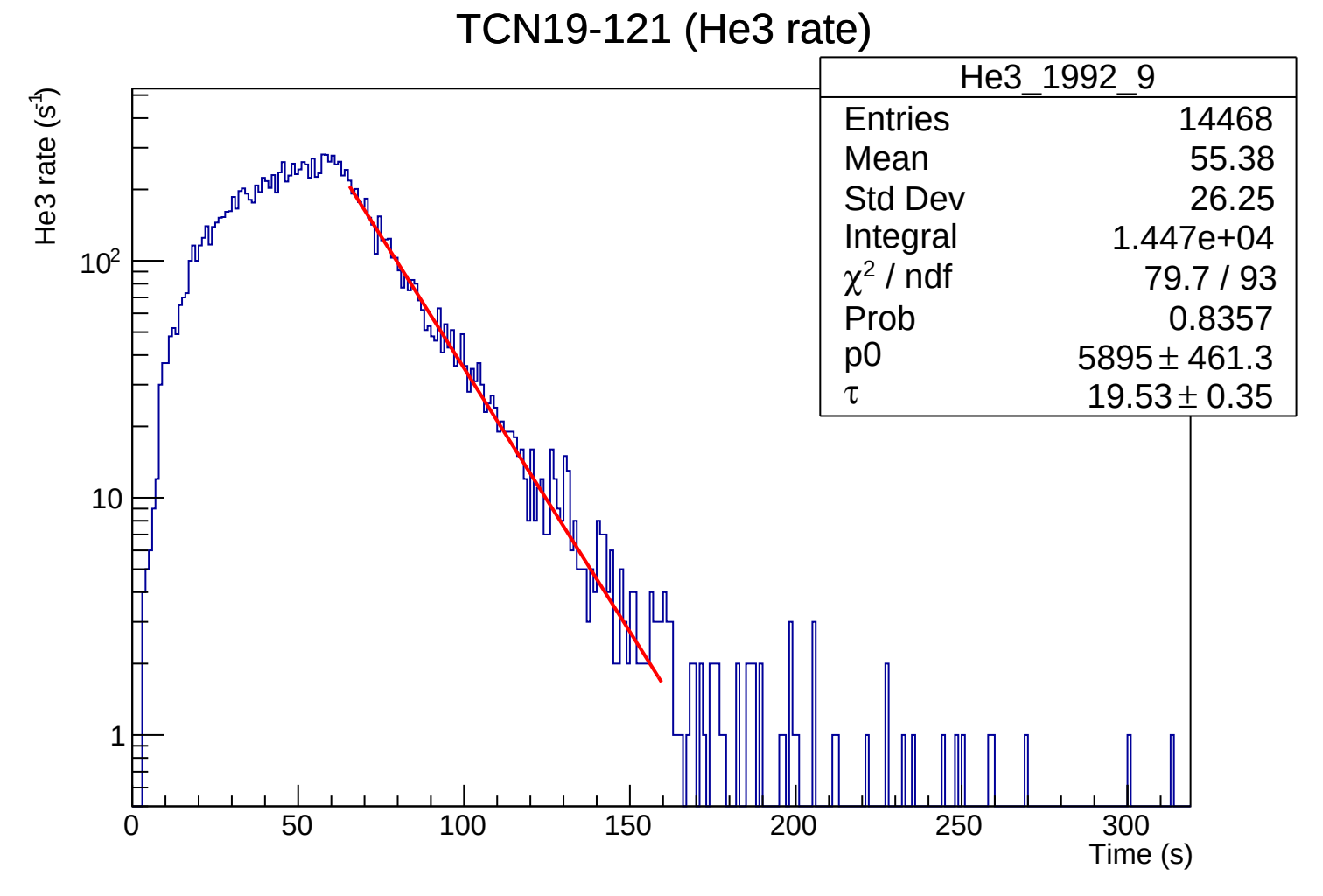

TCN19-121 (He3 rate)
He3_1992_4
Entries 14483
Mean 55.22
Std Dev 26.08
Integral 1.448e+04
χ² / ndf 113.1 / 92
Prob 0.06705
p0 5683 ± 460.8
τ 19.63 ± 0.37
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

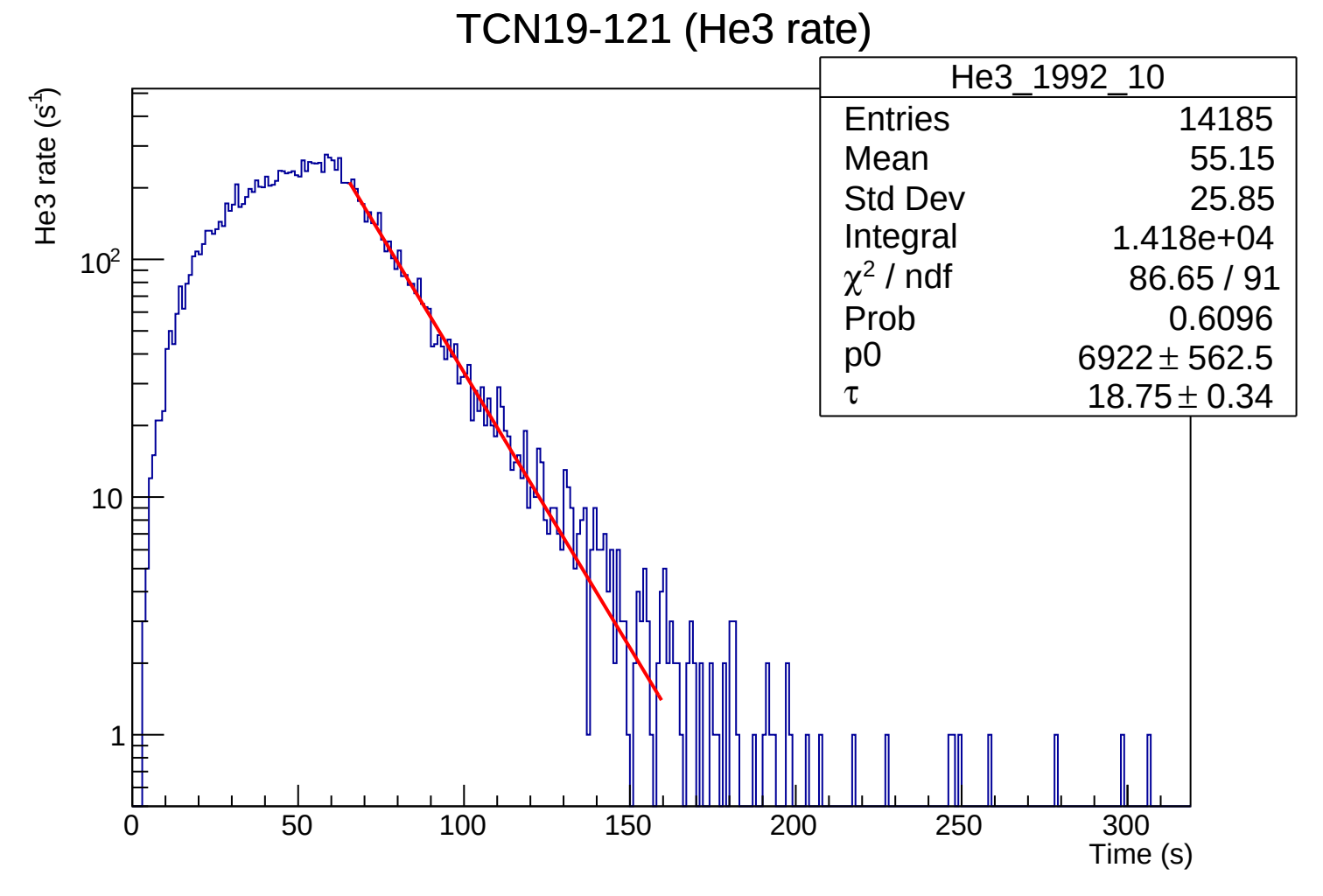

TCN19-121 (He3 rate)
He3_1992_5
Entries 14551
Mean 55.29
Std Dev 26.37
Integral 1.455e+04
χ² / ndf 102.1 / 92
Prob 0.2214
p0 5640 ± 442.6
τ 19.71 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

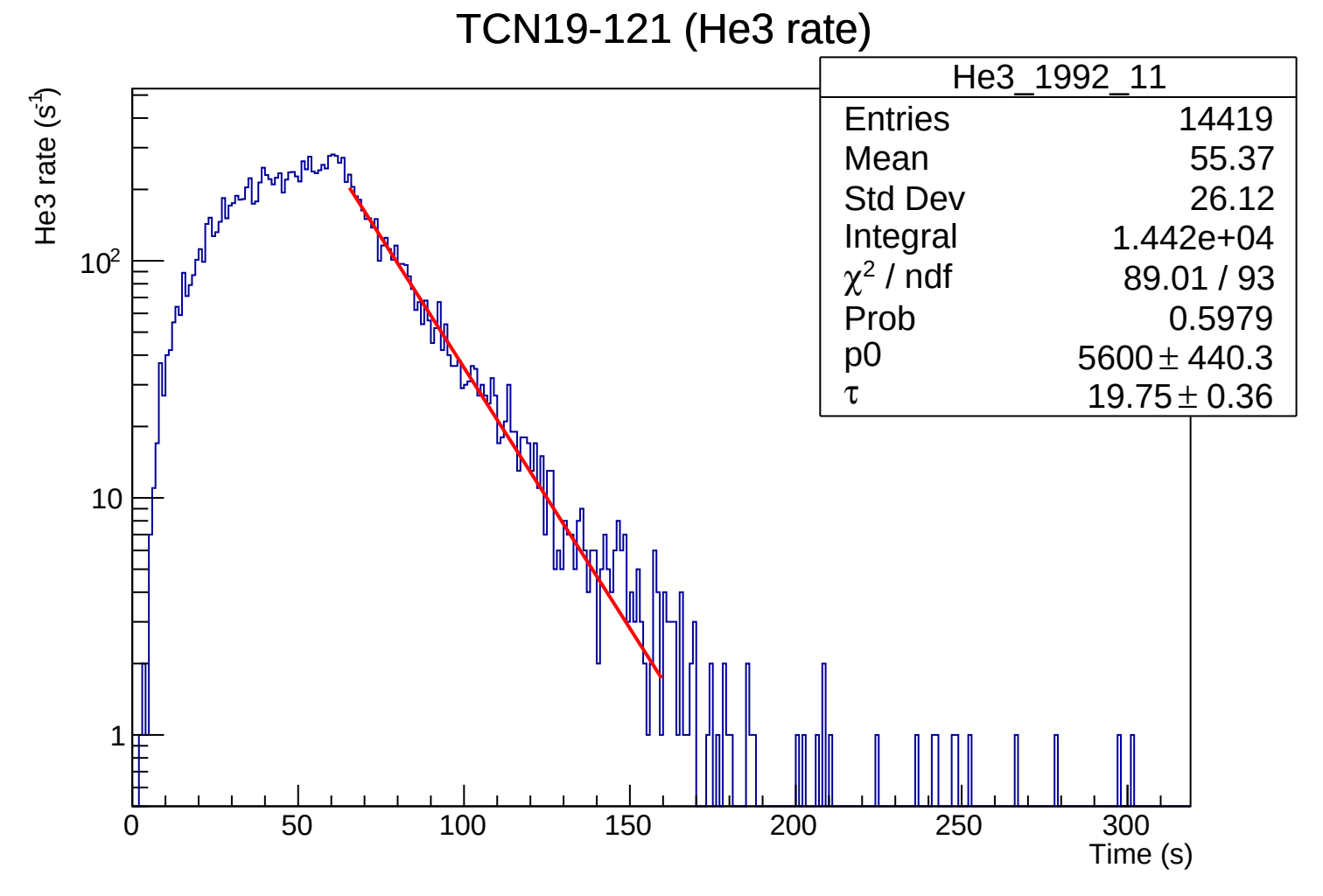

TCN19-121 (He3 rate)
He3_1992_6
Entries 14536
Mean 54.62
Std Dev 25.74
Integral 1.454e+04
χ² / ndf 116.4 / 91
Prob 0.03765
p0 7506 ± 618.0
τ 18.38 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

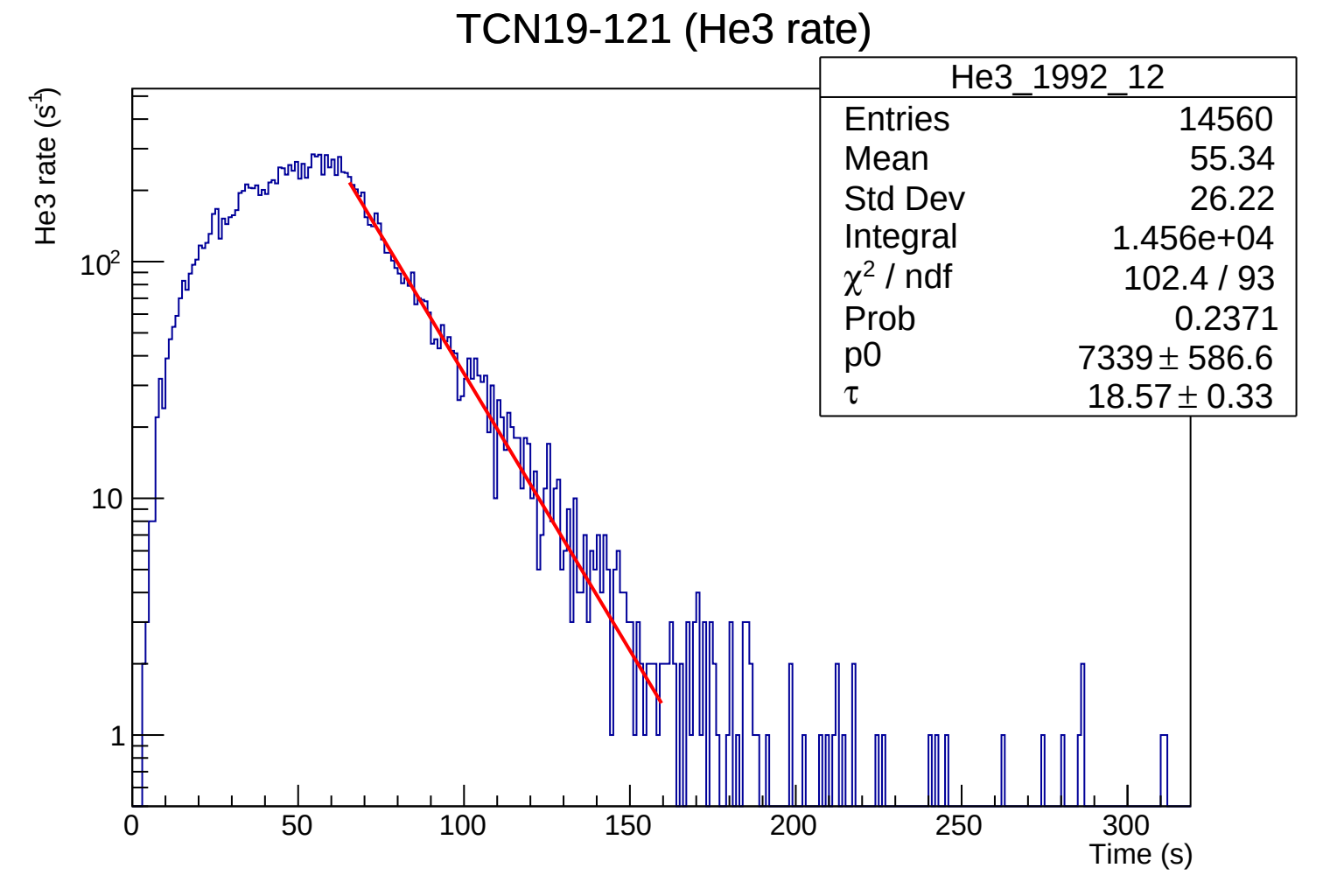

TCN19-121 (He3 rate)
He3_1992_7
Entries 14472
Mean 55.14
Std Dev 26.08
Integral 1.447e+04
χ² / ndf 83.04 / 93
Prob 0.7608
p0 6527 ± 510.2
τ 19.04 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

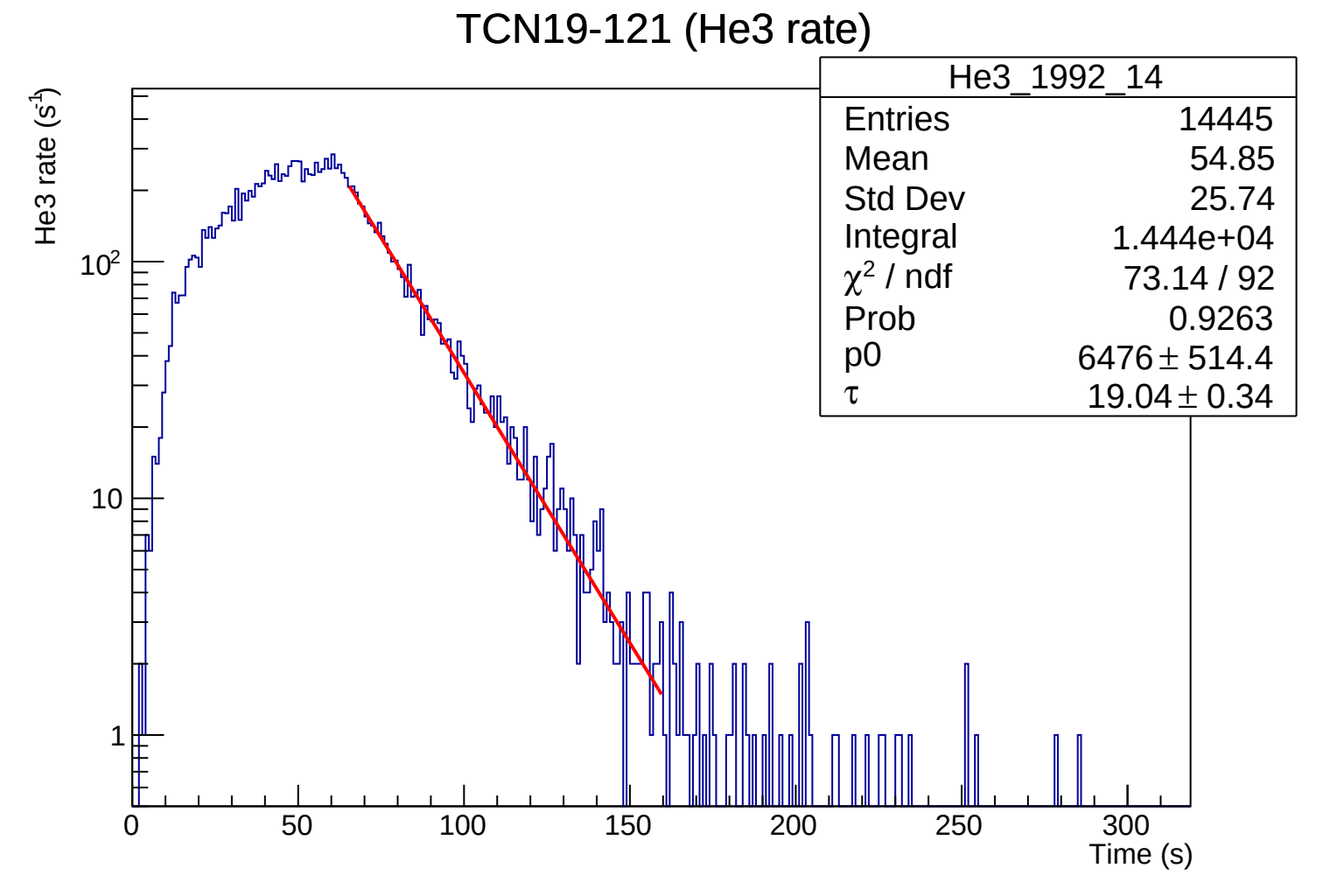

TCN19-121 (He3 rate)
He3_1992_8
Entries 14494
Mean 55.61
Std Dev 26.26
Integral 1.449e+04
χ² / ndf 135.6 / 92
Prob 0.002121
p0 5495 ± 406.4
τ 19.83 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

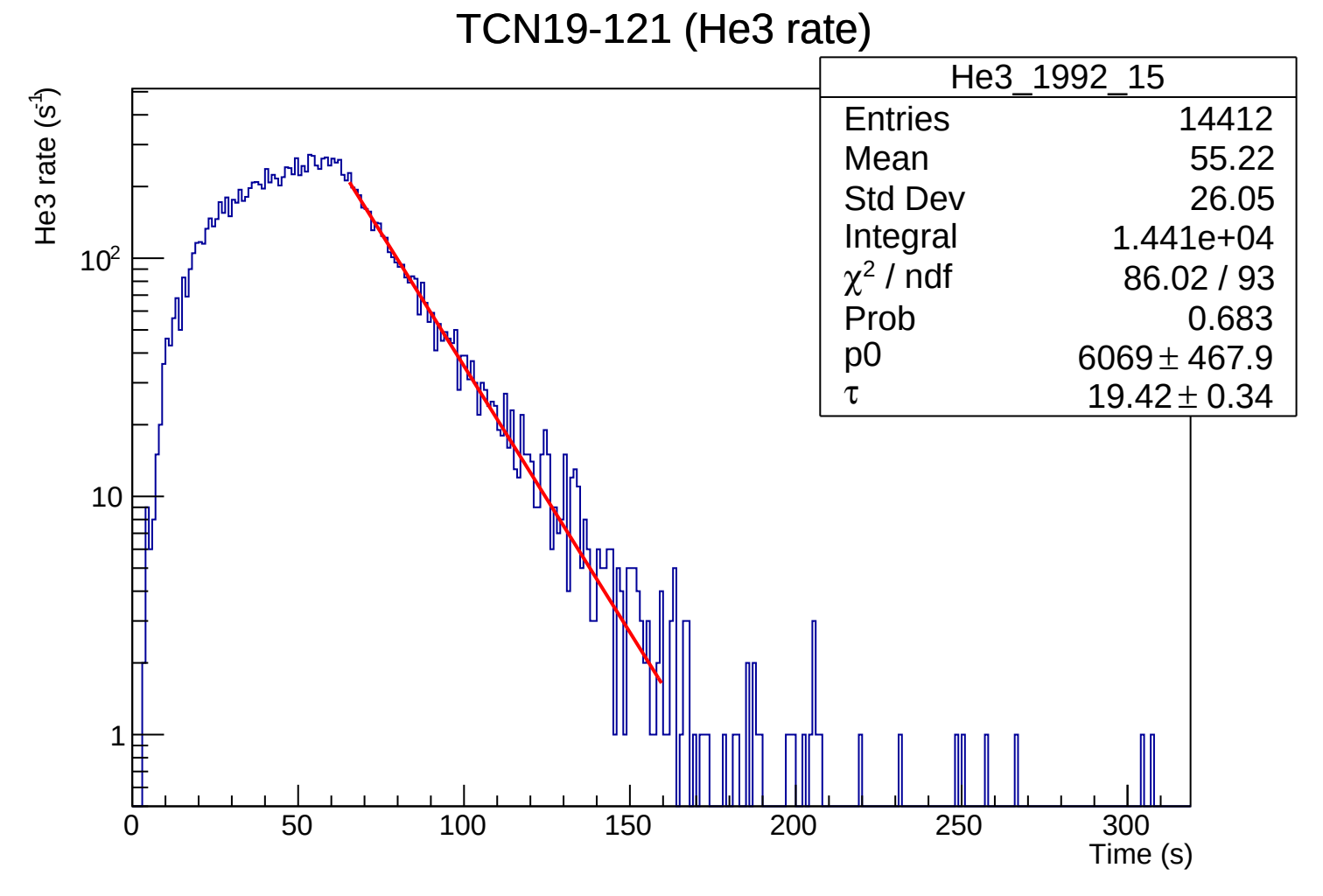

TCN19-121 (He3 rate)
He3_1992_9
Entries 14468
Mean 55.38
Std Dev 26.25
Integral 1.447e+04
χ² / ndf 79.7 / 93
Prob 0.8357
p0 5895 ± 461.3
τ 19.53 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

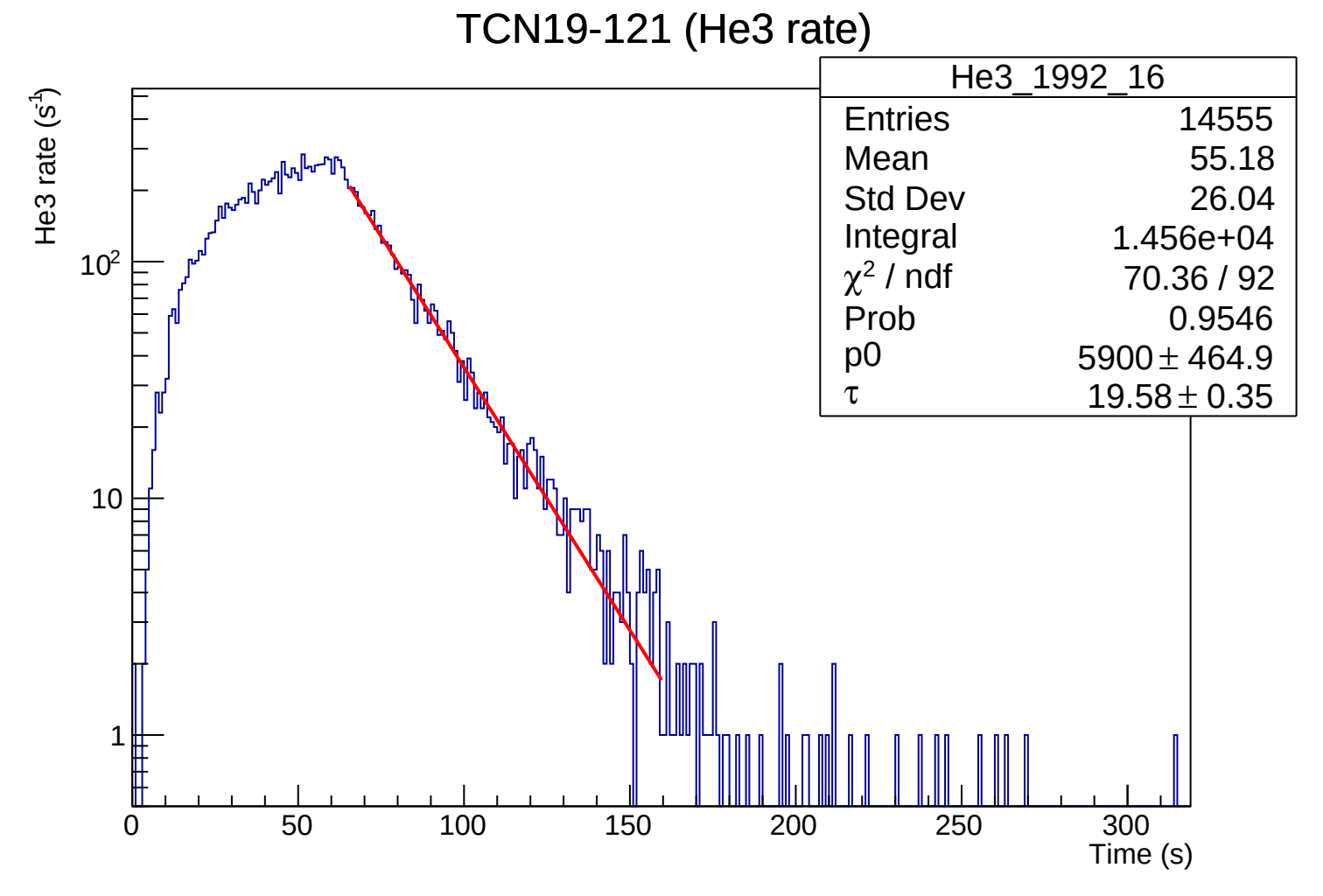

TCN19-121 (He3 rate)
He3_1992_10
Entries 14185
Mean 55.15
Std Dev 25.85
Integral 1.418e+04
χ² / ndf 86.65 / 91
Prob 0.6096
p0 6922 ± 562.5
τ 18.75 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

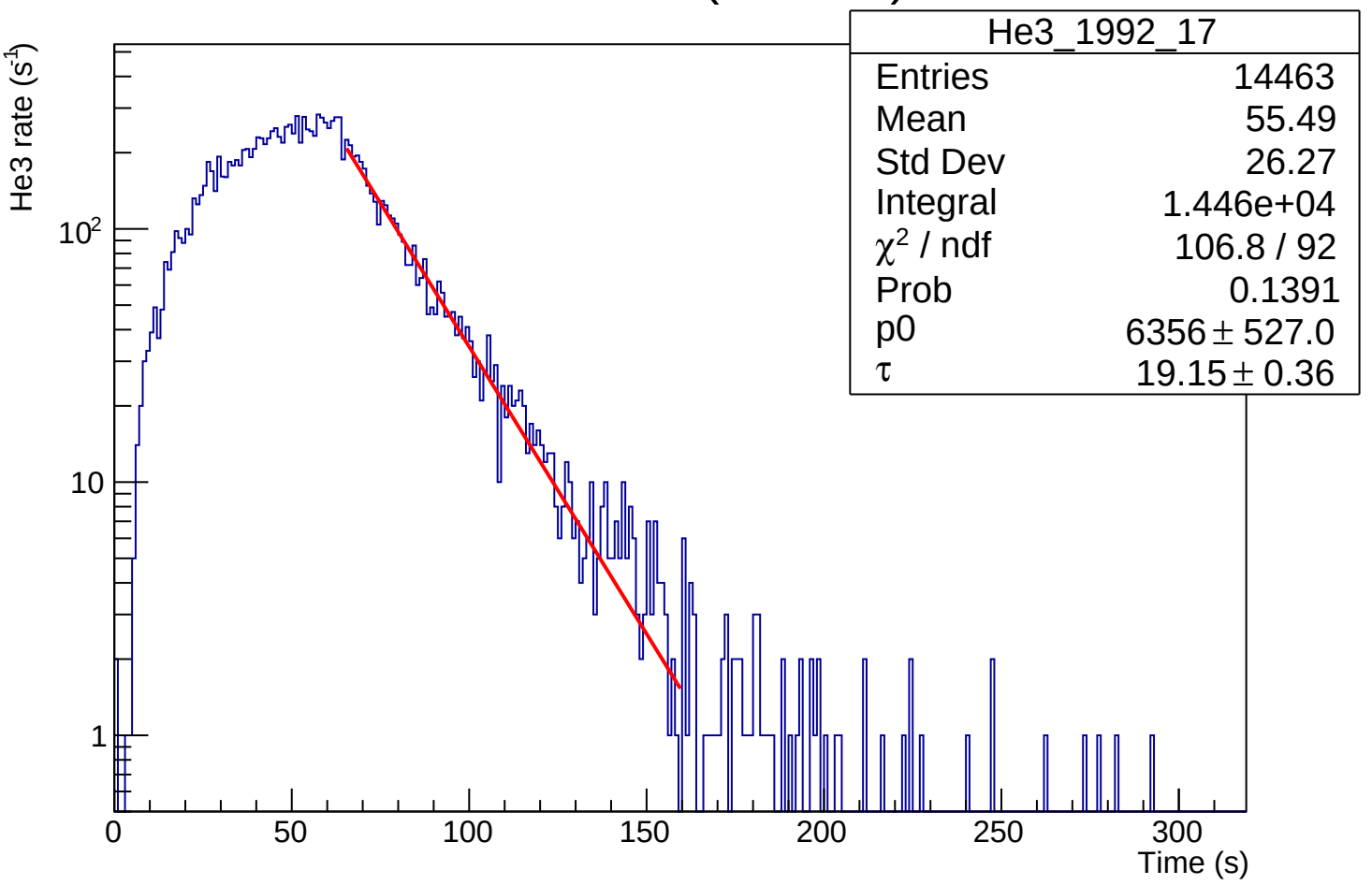

TCN19-121 (He3 rate)
He3_1992_11
Entries 14419
Mean 55.37
Std Dev 26.12
Integral 1.442e+04
χ² / ndf 89.01 / 93
Prob 0.5979
p0 5600 ± 440.3
τ 19.75 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

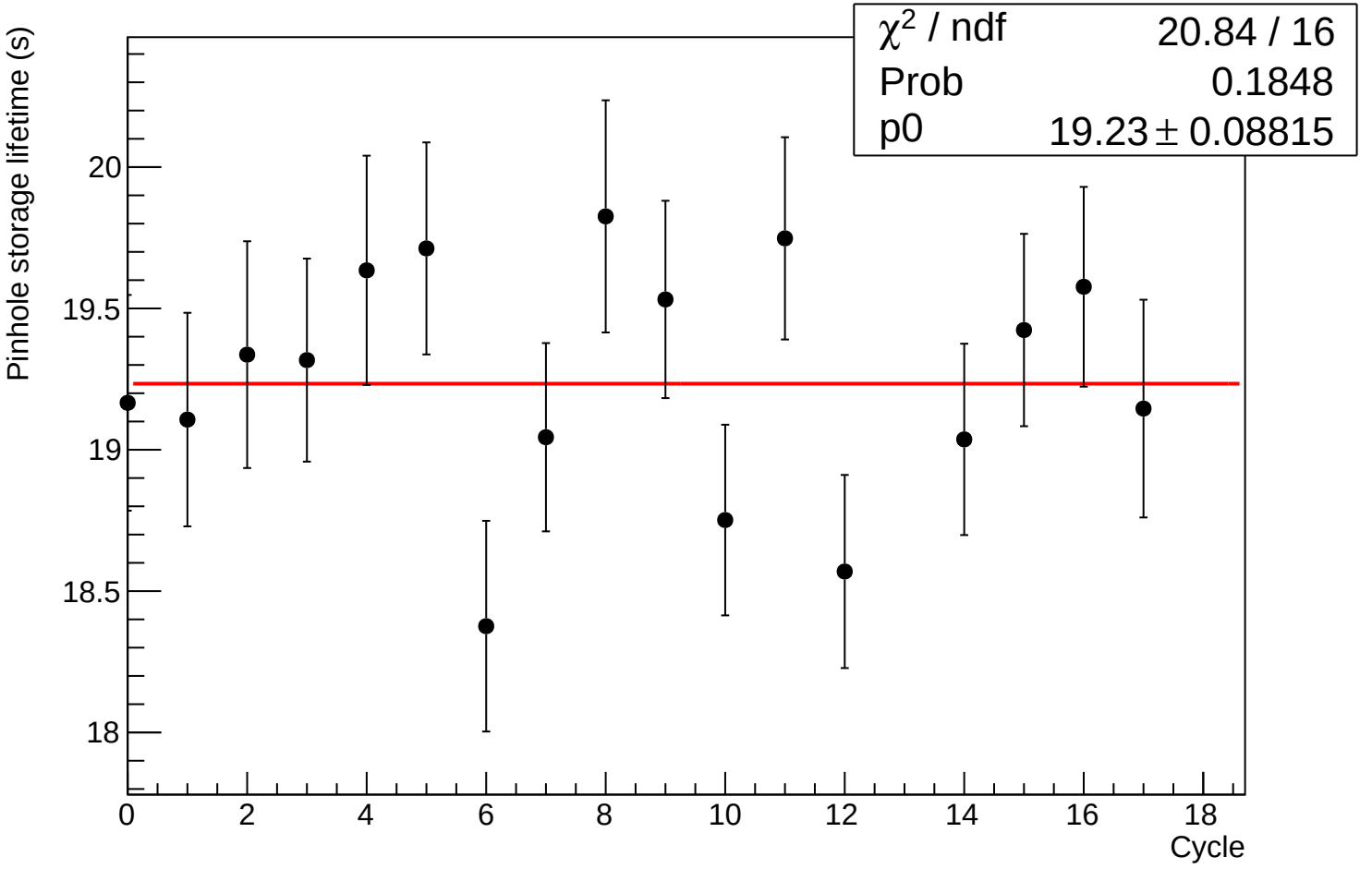

TCN19-121 (He3 rate)
He3_1992_12
Entries 14560
Mean 55.34
Std Dev 26.22
Integral 1.456e+04
χ² / ndf 102.4 / 93
Prob 0.2371
p0 7339 ± 586.6
τ 18.57 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

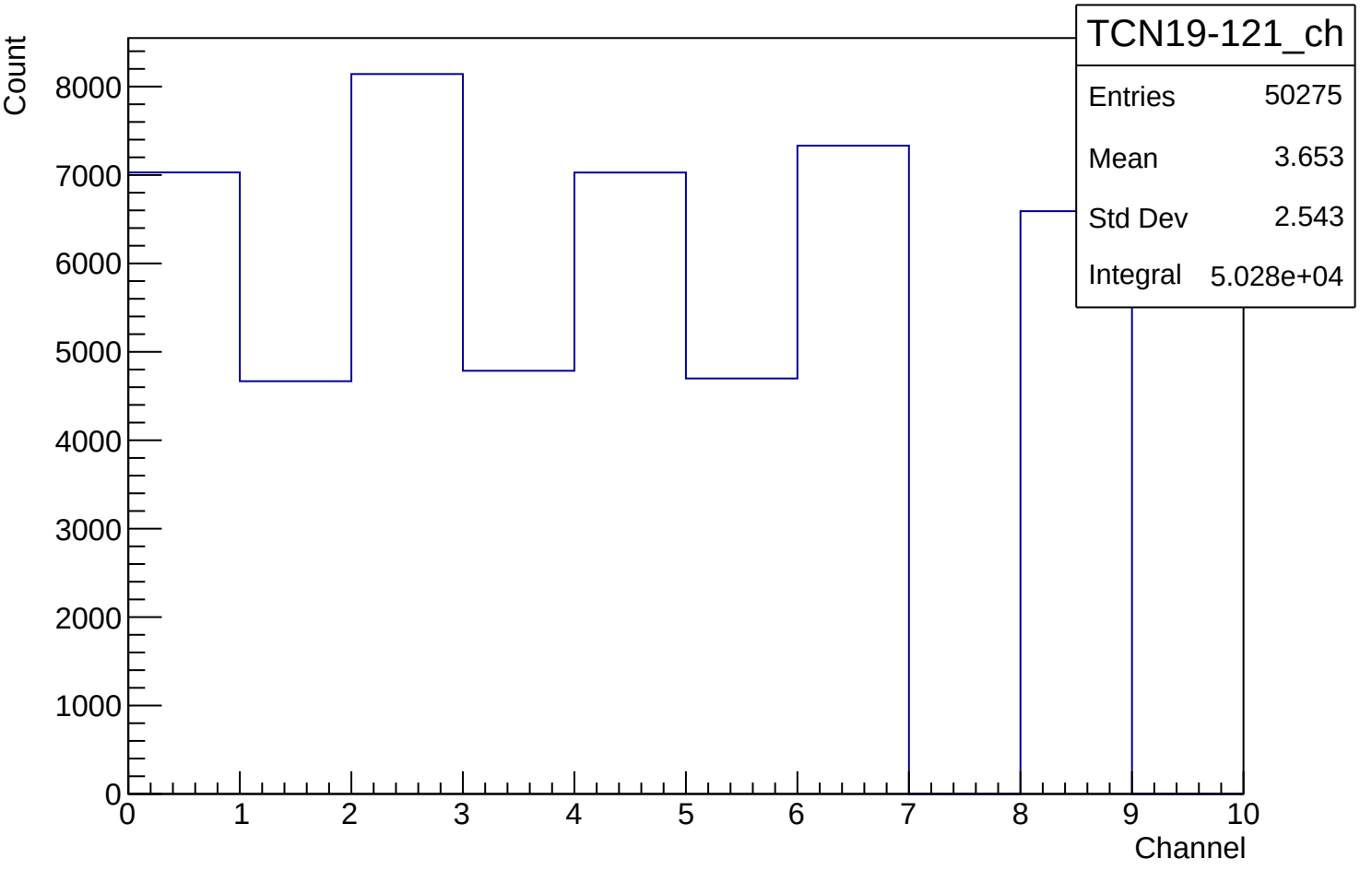

TCN19-121 (He3 rate)
He3_1992_14
Entries 14445
Mean 54.85
Std Dev 25.74
Integral 1.444e+04
χ² / ndf 73.14 / 92
Prob 0.9263
p0 6476 ± 514.4
τ 19.04 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-121 (He3 rate)
He3_1992_15
Entries 14412
Mean 55.22
Std Dev 26.05
Integral 1.441e+04
χ² / ndf 86.02 / 93
Prob 0.683
p0 6069 ± 467.9
τ 19.42 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-121 (He3 rate)
He3_1992_16
Entries 14555
Mean 55.18
Std Dev 26.04
Integral 1.456e+04
χ² / ndf 70.36 / 92
Prob 0.9546
p0 5900 ± 464.9
τ 19.58 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN19-121 (He3 rate)
He3_1992_17
Entries 14463
Mean 55.49
Std Dev 26.27
Integral 1.446e+04
χ² / ndf 106.8 / 92
Prob 0.1391
p0 6356 ± 527.0
τ 19.15 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


χ^2 / ndf 20.84 / 16
Prob 0.1848
p0 19.23 ± 0.08815
Pinhole storage lifetime (s)
20
19.5
19
18.5
18
0
2
4
6
8
10
12
14
16
18
Cycle


TCN19-121
TCN19-121_ch
Entries 50275
Mean 3.653
Std Dev 2.543
Integral 5.028e+04
Count
Channel
0
1000
2000
3000
4000
5000
6000
7000
8000
0
1
2
3
4
5
6
7
8
9
10