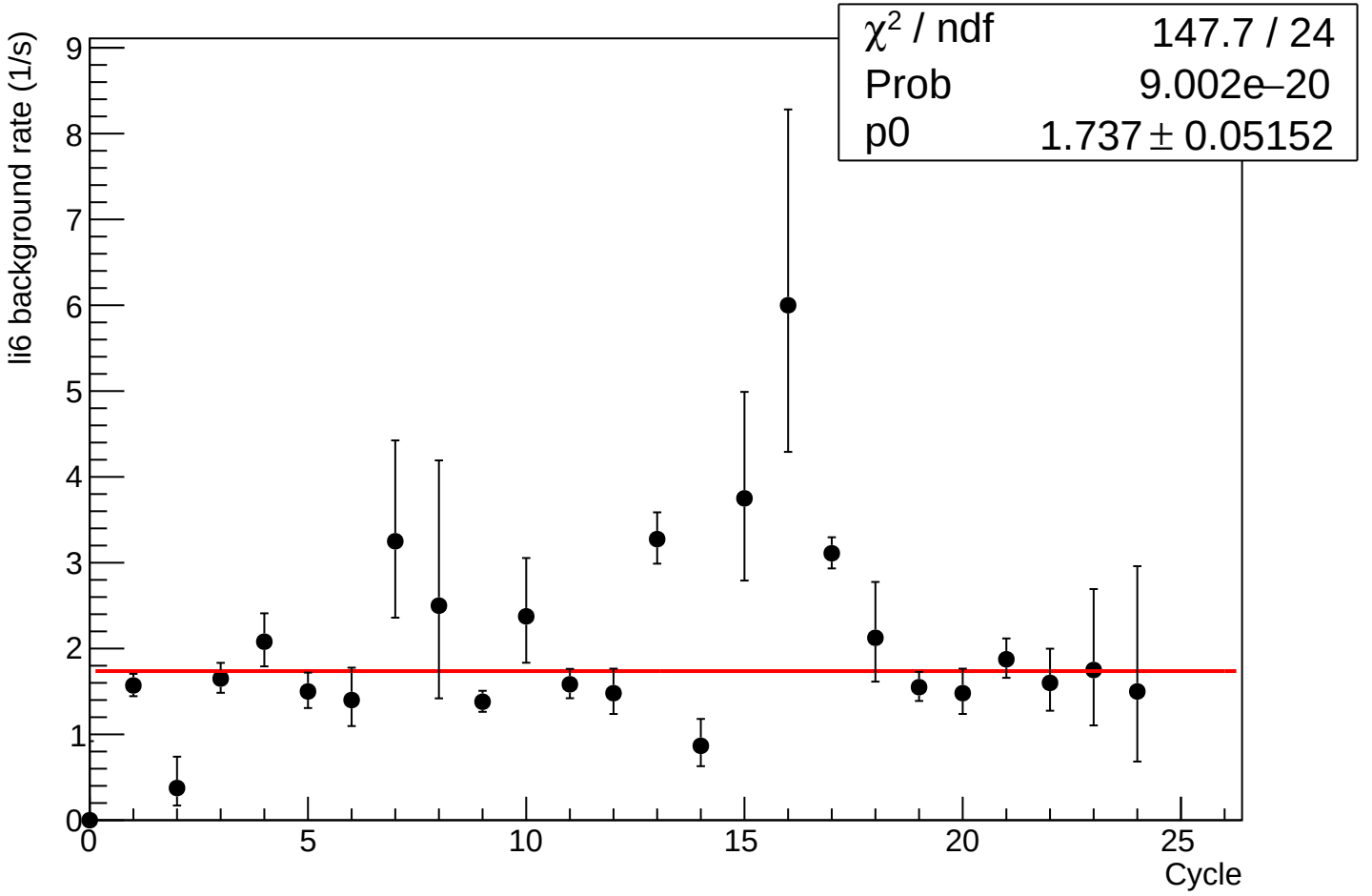
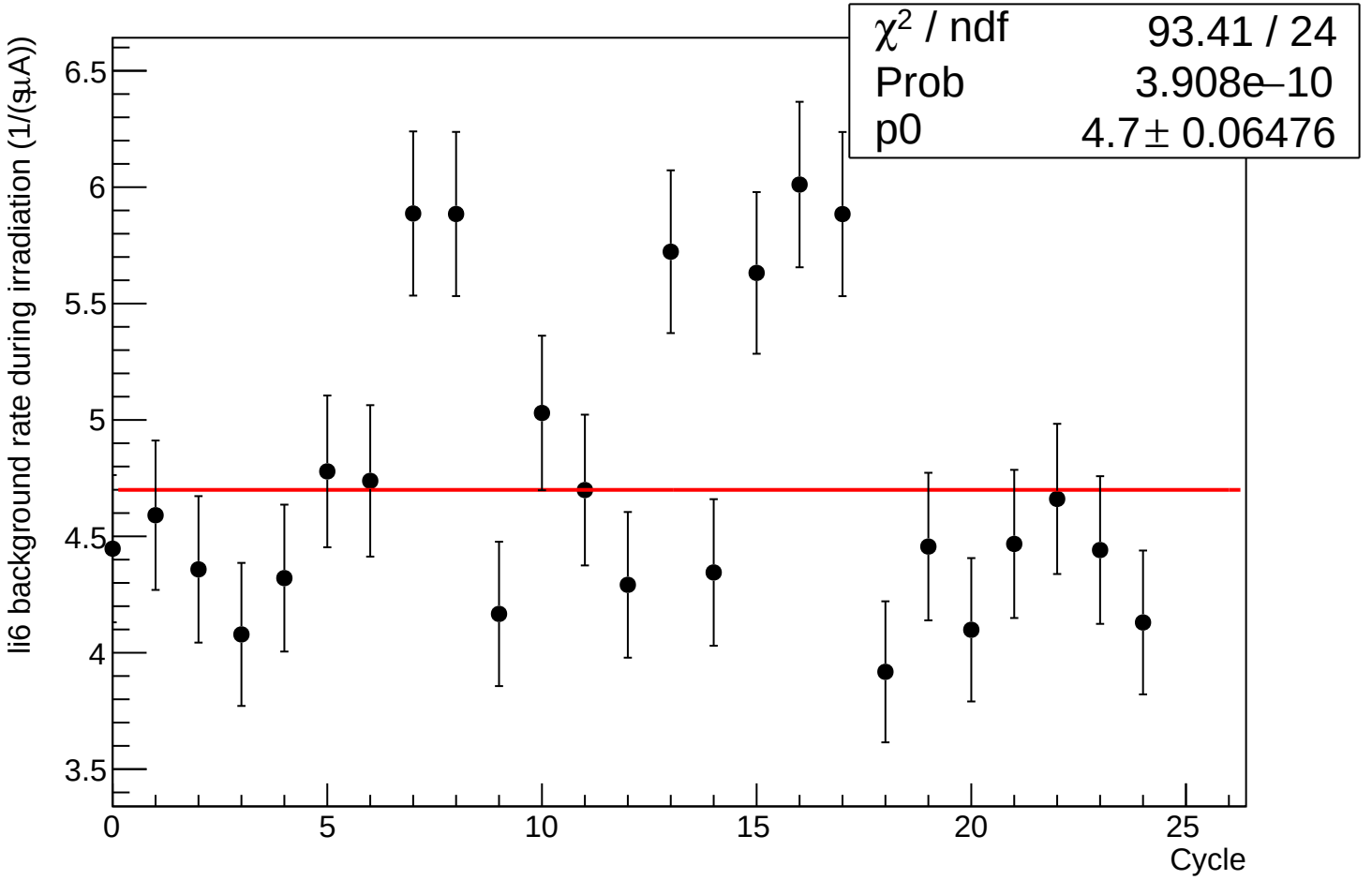
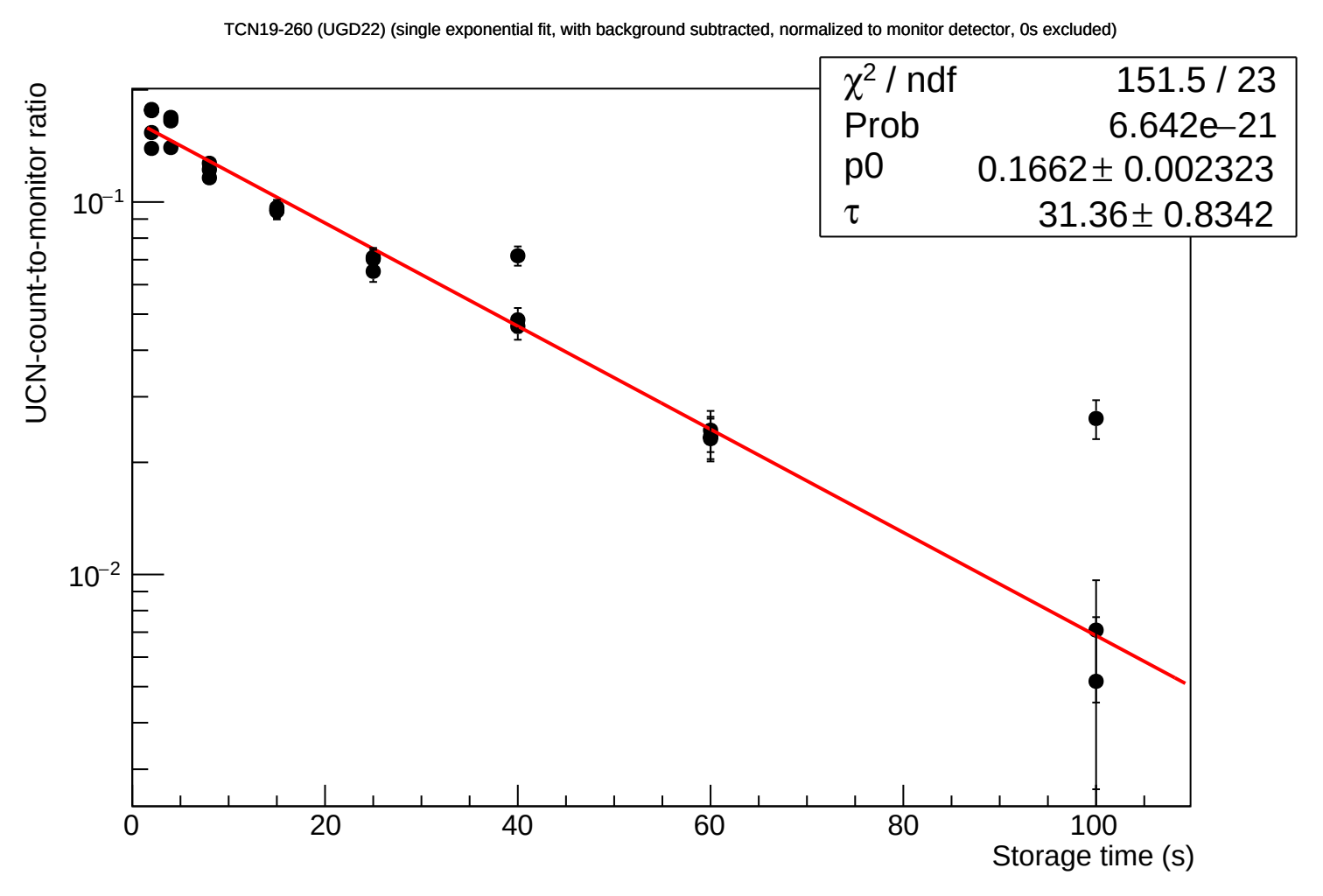
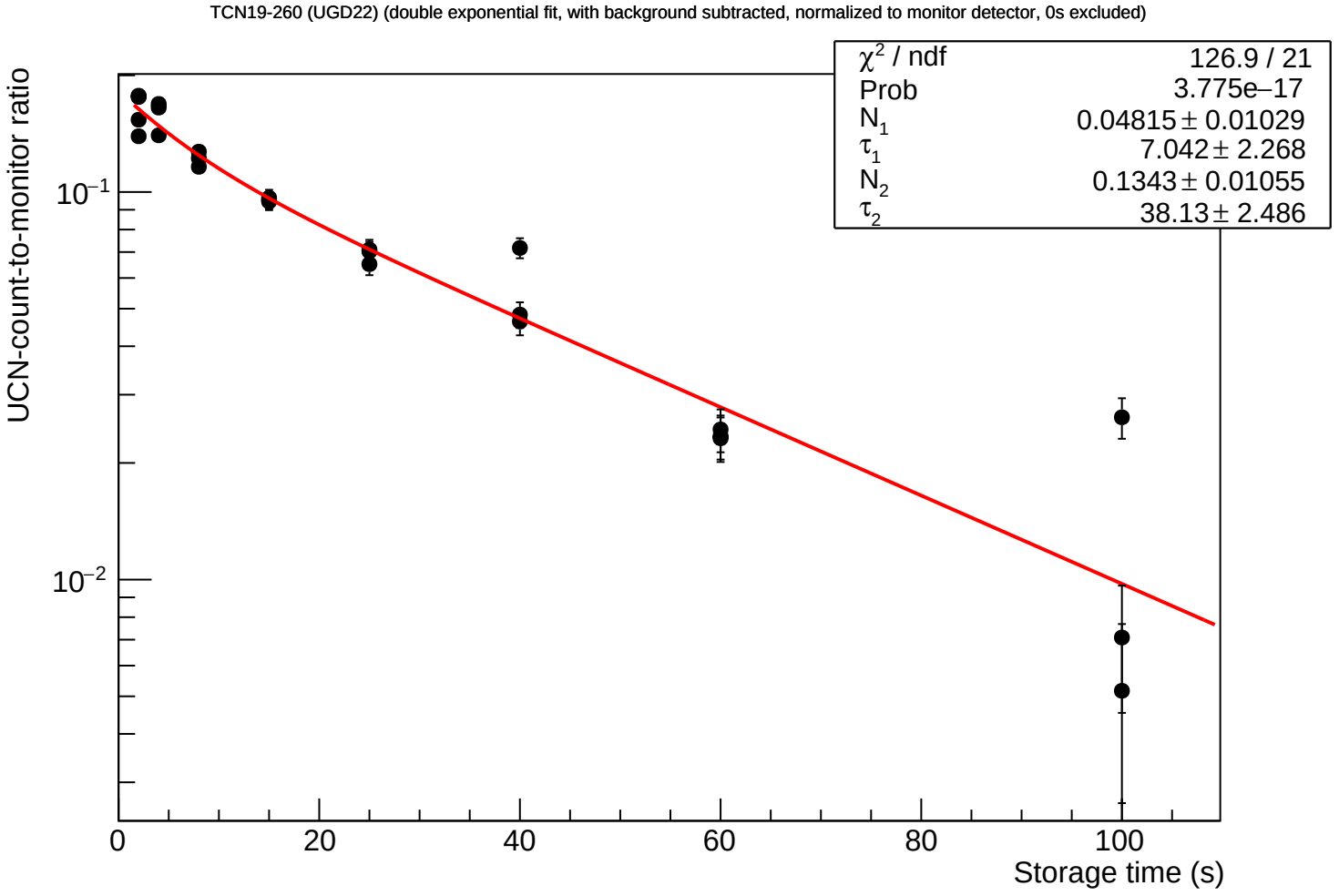
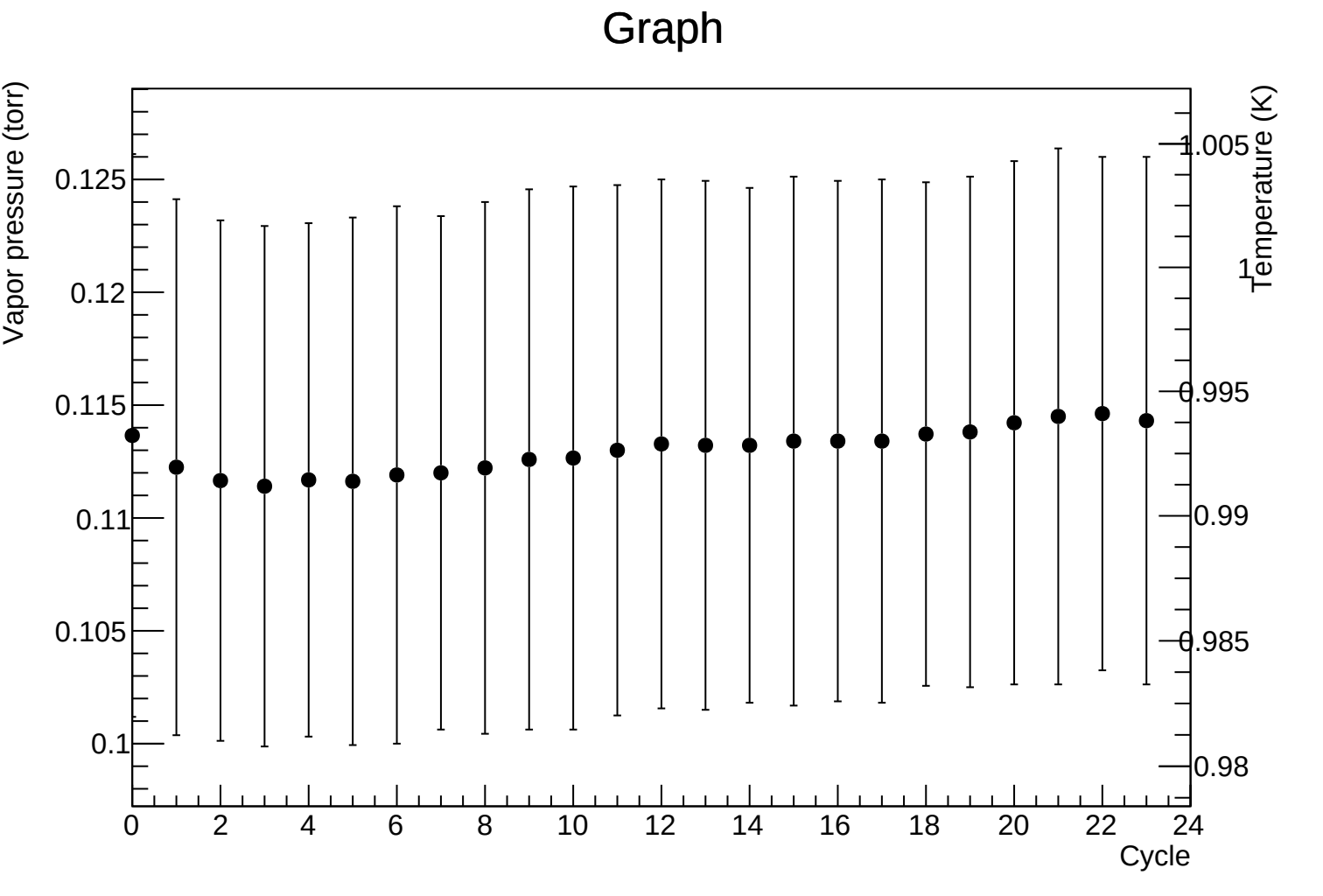
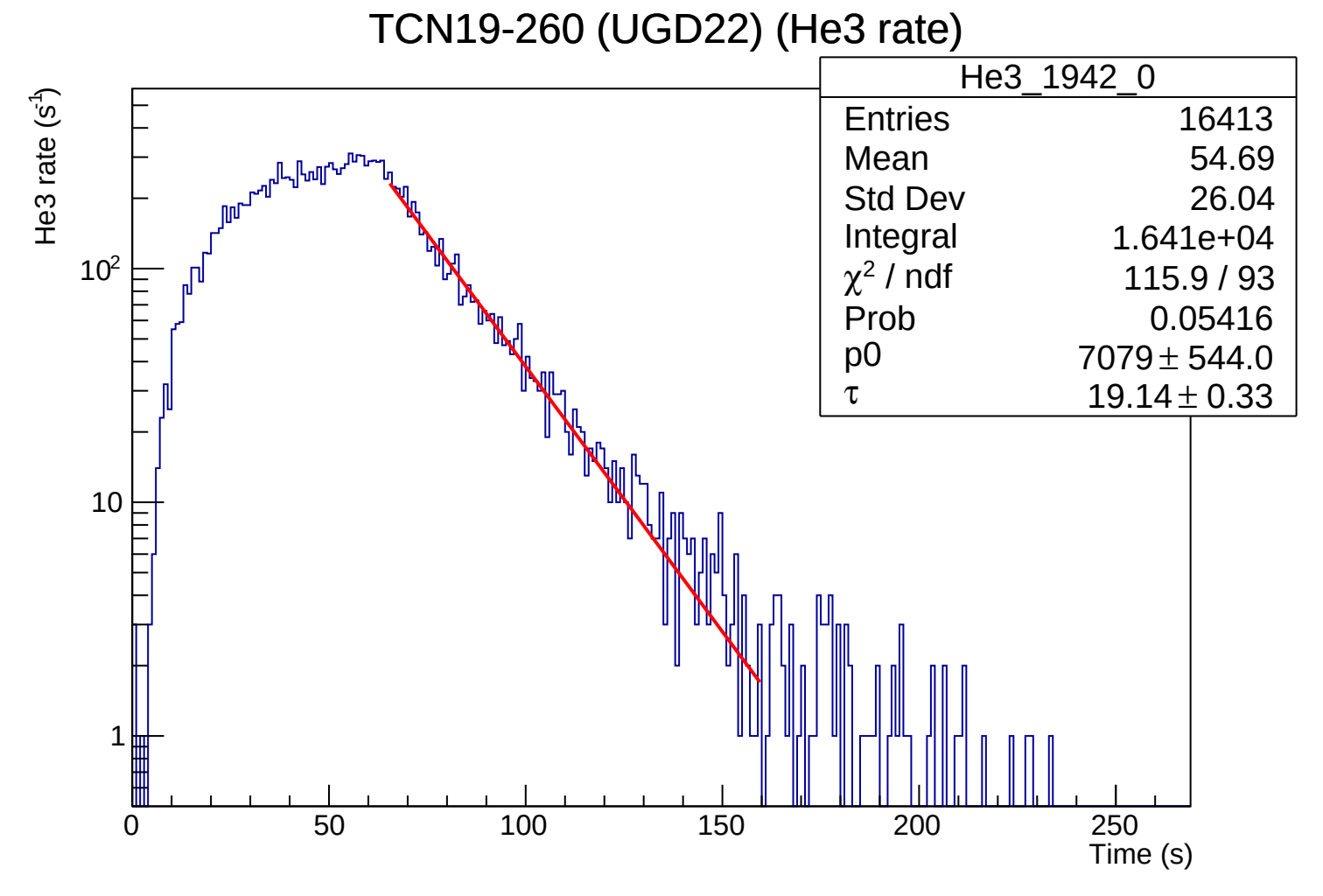

χ^2 / ndf 147.7 / 24
Prob 9.002e–20
p0 1.737 ± 0.05152
li6 background rate (1/s)
Cycle
0
1
2
3
4
5
6
7
8
9
0
5
10
15
20
25

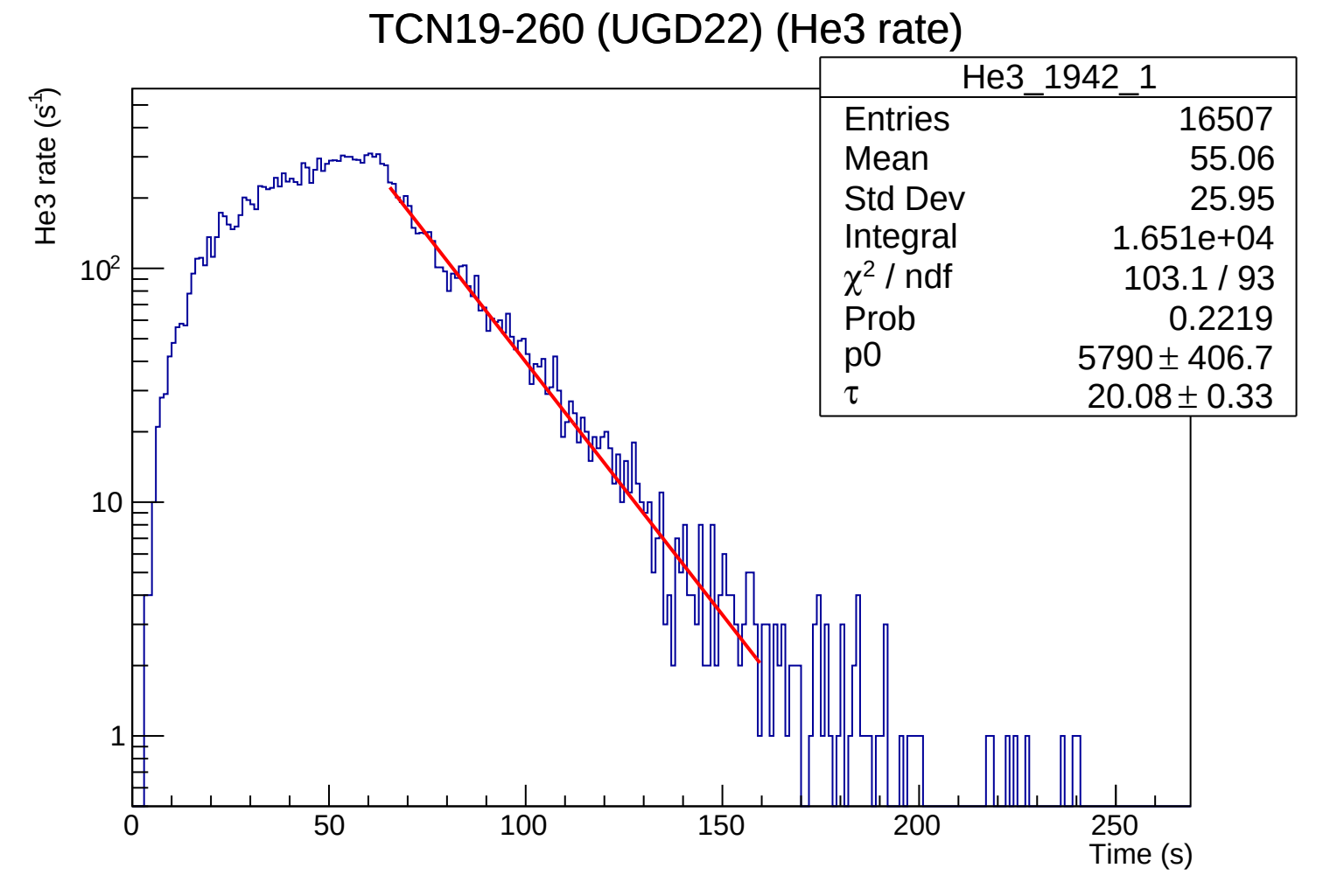

χ² / ndf 93.41 / 24
Prob 3.908e−10
p0 4.7 ± 0.06476
li6 background rate during irradiation (1/(μA))
Cycle
6.5
6
5.5
5
4.5
4
3.5
0
5
10
15
20
25

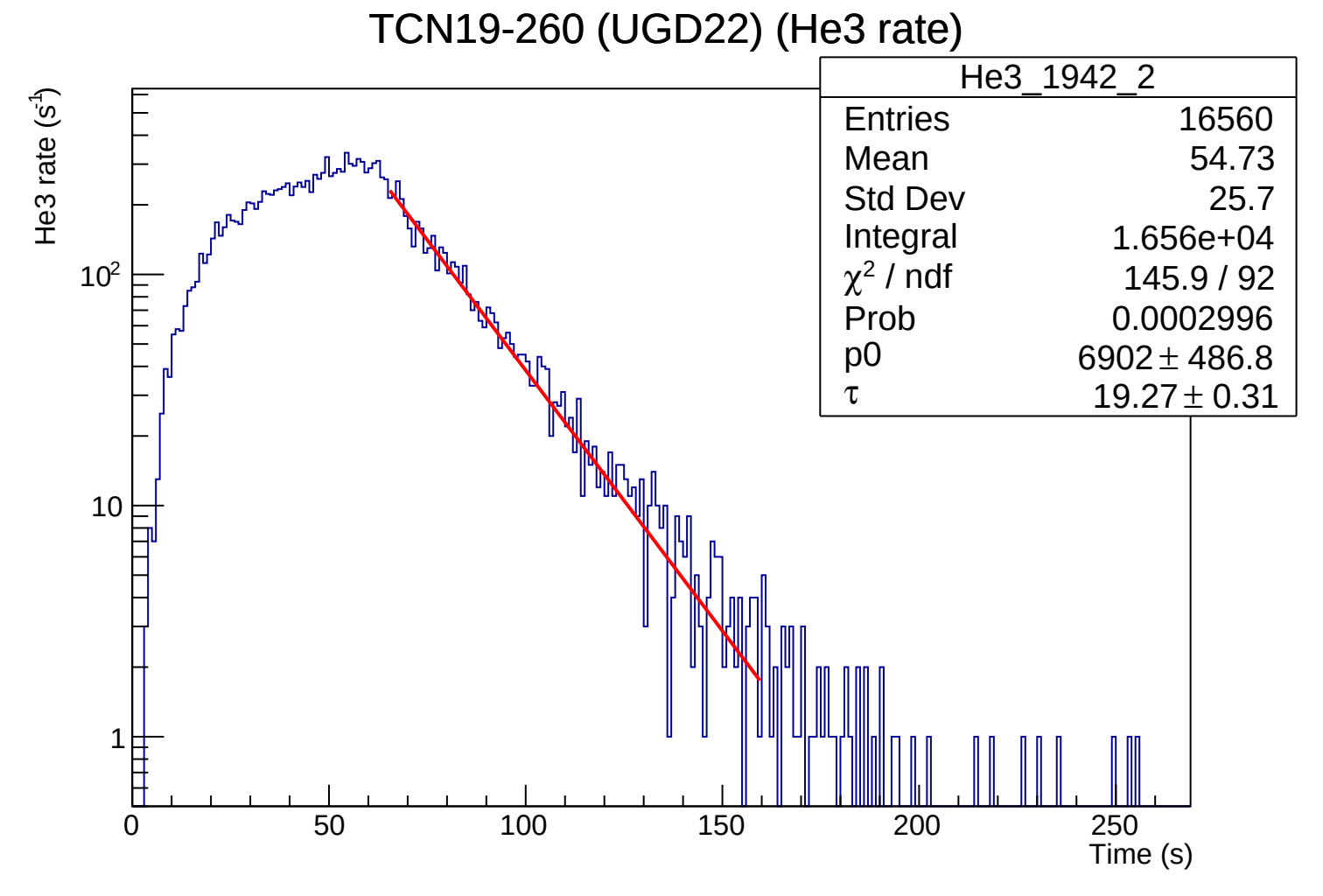

TCN19-260 (UGD22) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 151.5 / 23
Prob 6.642e−21
p0 0.1662 ± 0.002323
τ 31.36 ± 0.8342
UCN-count-to-monitor ratio
10⁻¹
10⁻²
0
20
40
60
80
100
Storage time (s)

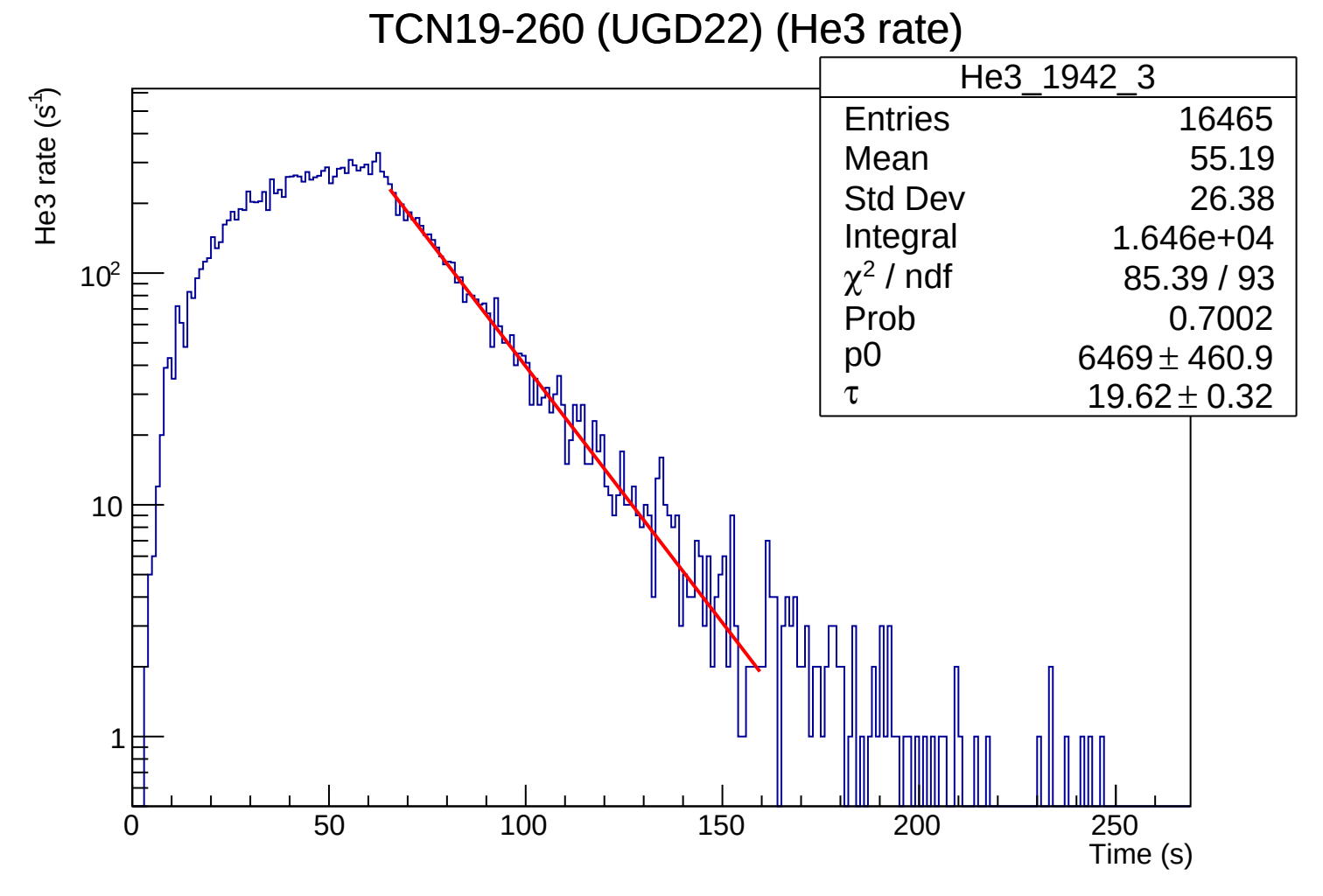

TCN19-260 (UGD22) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ^2 / ndf 126.9 / 21
Prob 3.775e–17
N_1 0.04815 ± 0.01029
τ_1 7.042 ± 2.268
N_2 0.1343 ± 0.01055
τ_2 38.13 ± 2.486
UCN-count-to-monitor ratio
10^{-1}
10^{-2}
0
20
40
60
80
100
Storage time (s)

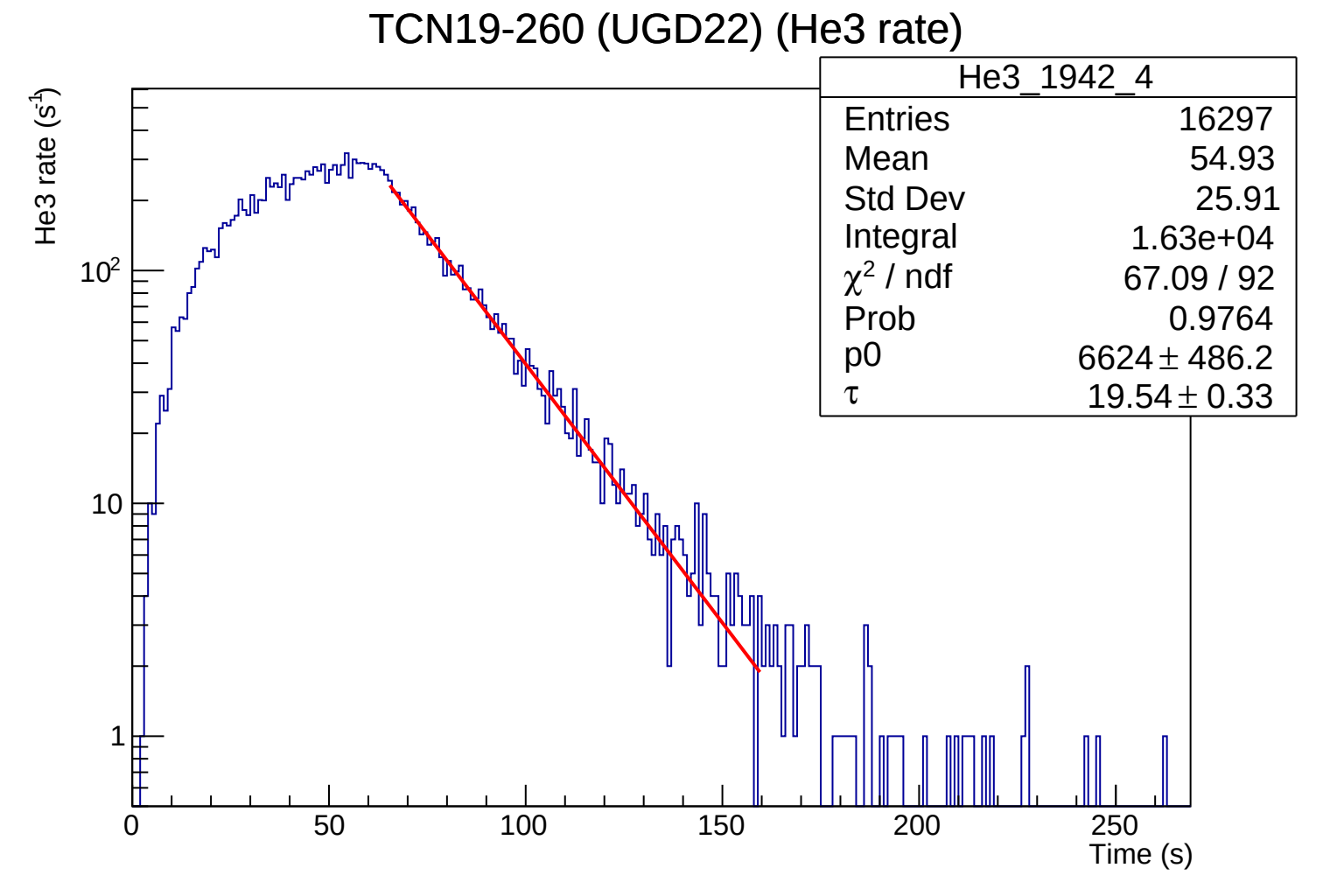

Graph
Vapor pressure (torr)
0.125
0.12
0.115
0.11
0.105
0.1
Temperature (K)
1.005
1
0.995
0.99
0.985
0.98
0
2
4
6
8
10
12
14
16
18
20
22
24
Cycle

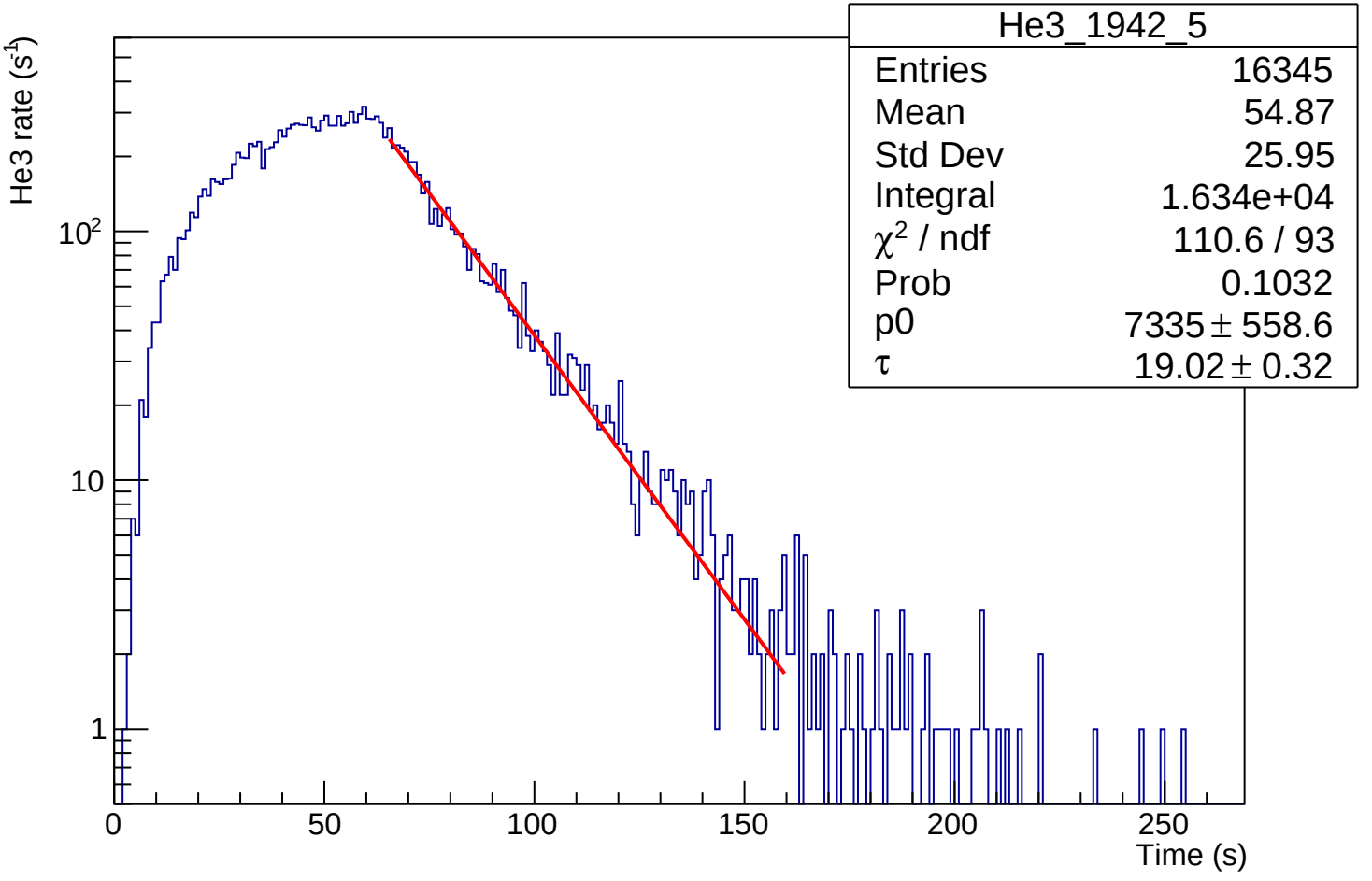

TCN19-260 (UGD22) (He3 rate)
He3_1942_0
Entries 16413
Mean 54.69
Std Dev 26.04
Integral 1.641e+04
χ² / ndf 115.9 / 93
Prob 0.05416
p0 7079 ± 544.0
τ 19.14 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

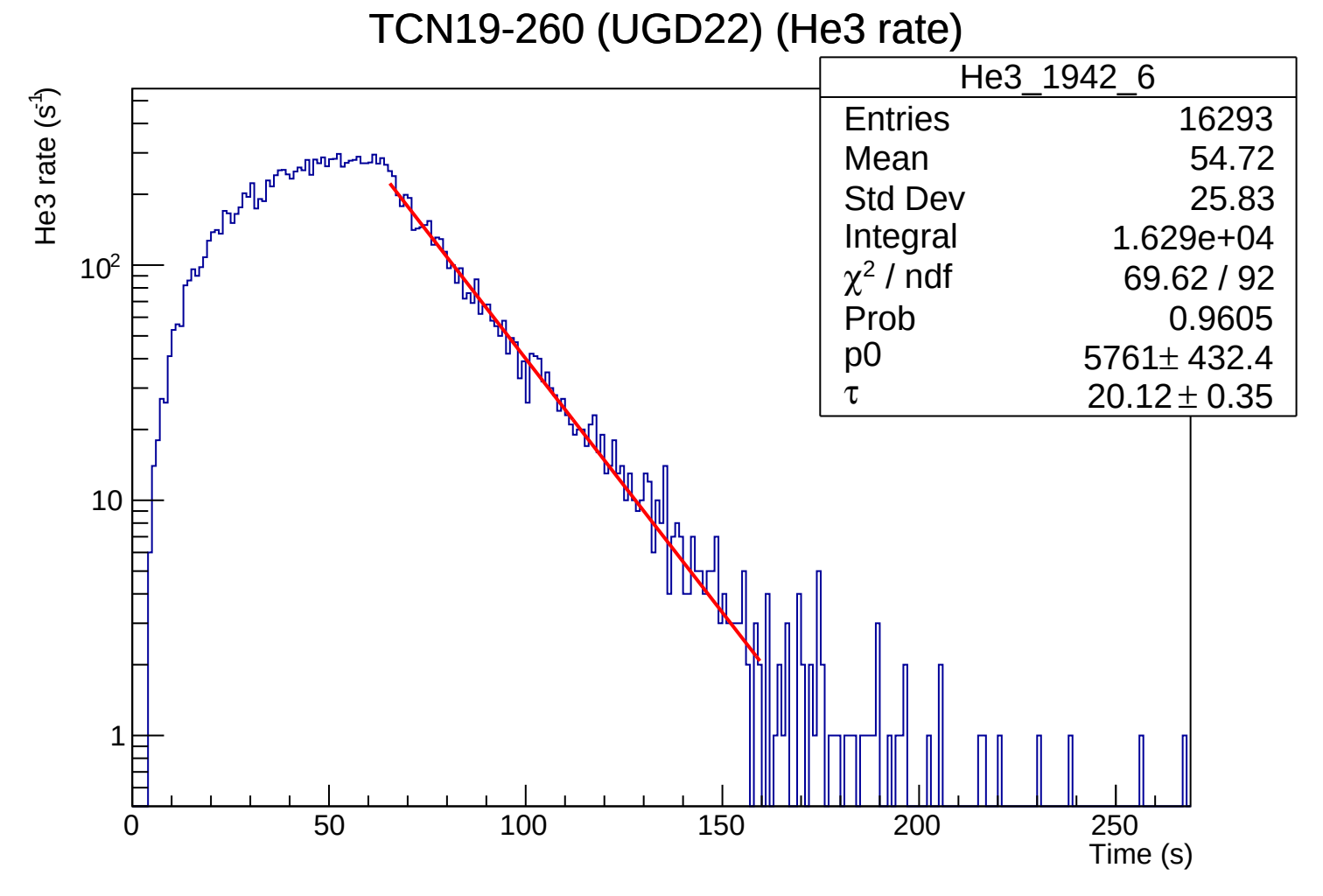

TCN19-260 (UGD22) (He3 rate)
He3_1942_1
Entries 16507
Mean 55.06
Std Dev 25.95
Integral 1.651e+04
χ² / ndf 103.1 / 93
Prob 0.2219
p0 5790 ± 406.7
τ 20.08 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

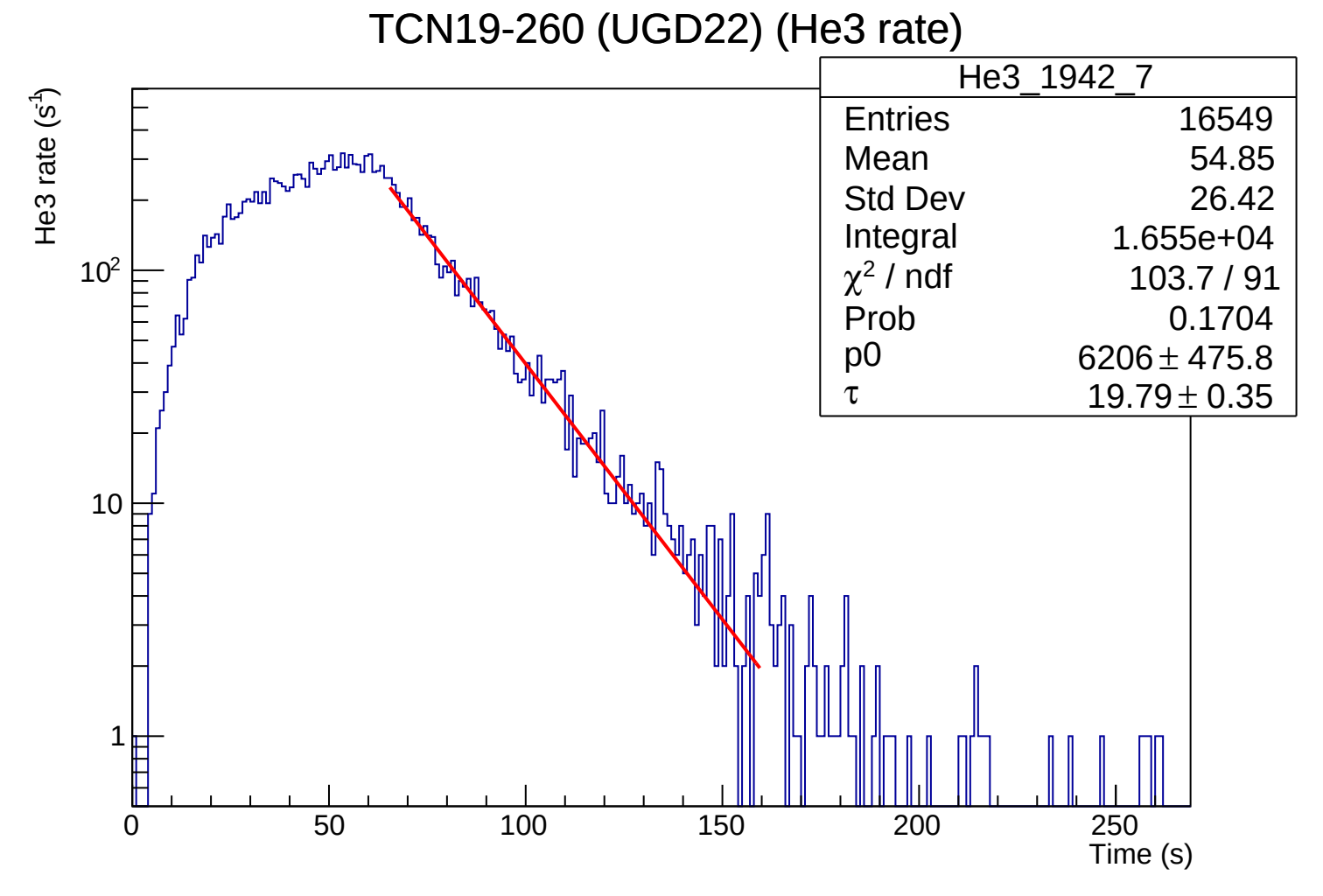

TCN19-260 (UGD22) (He3 rate)
He3_1942_2
Entries 16560
Mean 54.73
Std Dev 25.7
Integral 1.656e+04
χ² / ndf 145.9 / 92
Prob 0.0002996
p0 6902 ± 486.8
τ 19.27 ± 0.31
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

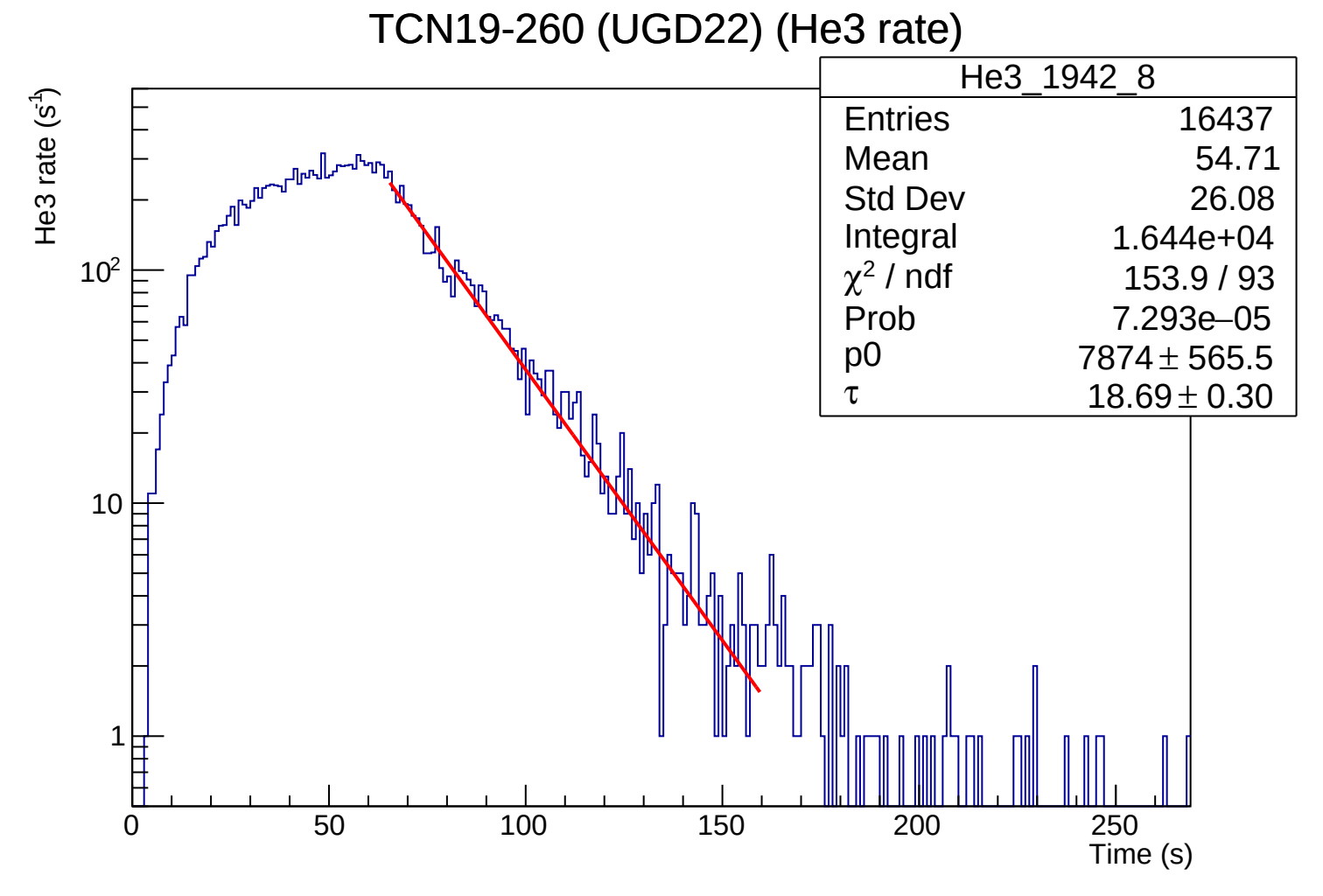

TCN19-260 (UGD22) (He3 rate)
He3_1942_3
Entries 16465
Mean 55.19
Std Dev 26.38
Integral 1.646e+04
χ² / ndf 85.39 / 93
Prob 0.7002
p0 6469 ± 460.9
τ 19.62 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

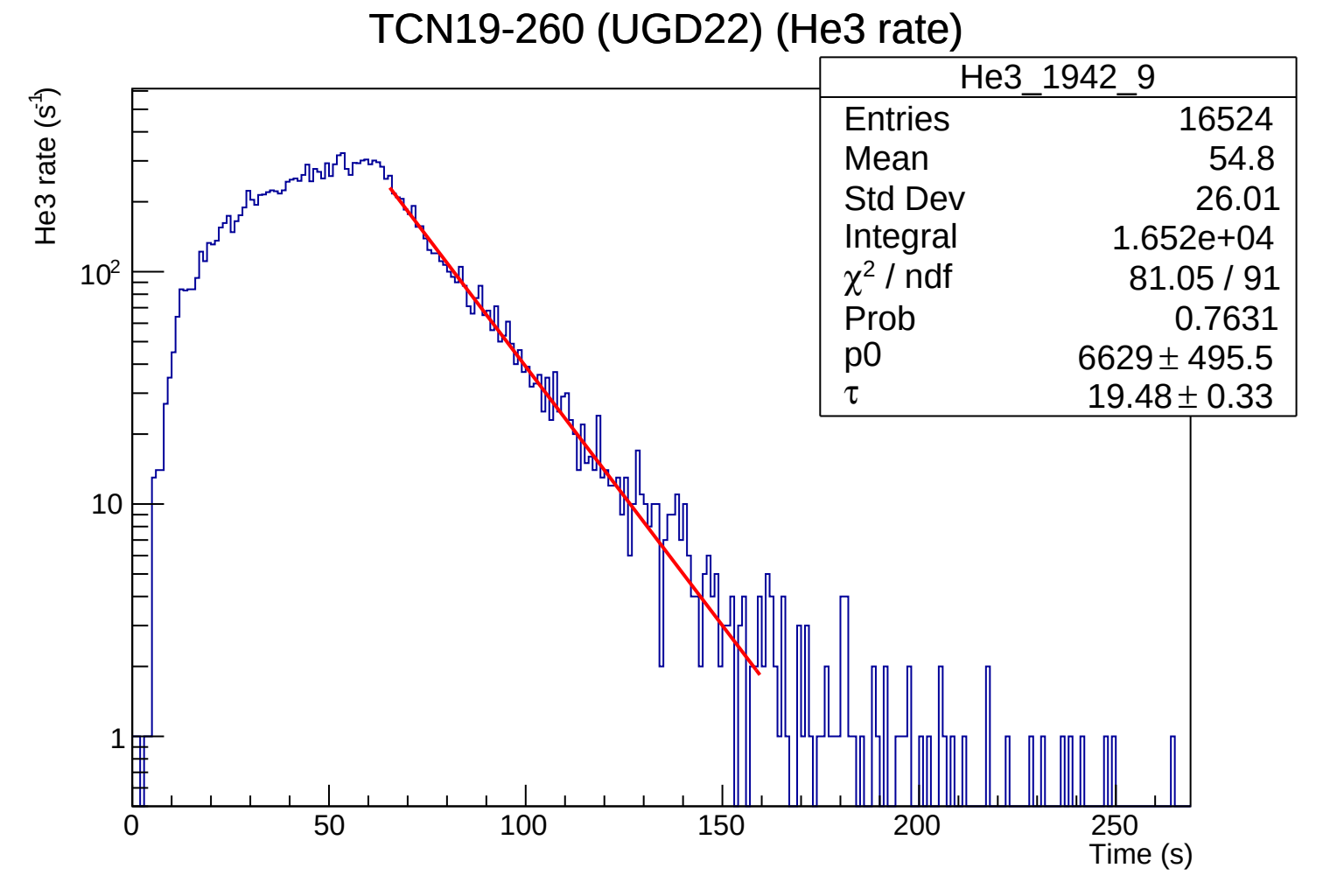

TCN19-260 (UGD22) (He3 rate)
He3_1942_4
Entries 16297
Mean 54.93
Std Dev 25.91
Integral 1.63e+04
χ² / ndf 67.09 / 92
Prob 0.9764
p0 6624 ± 486.2
τ 19.54 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

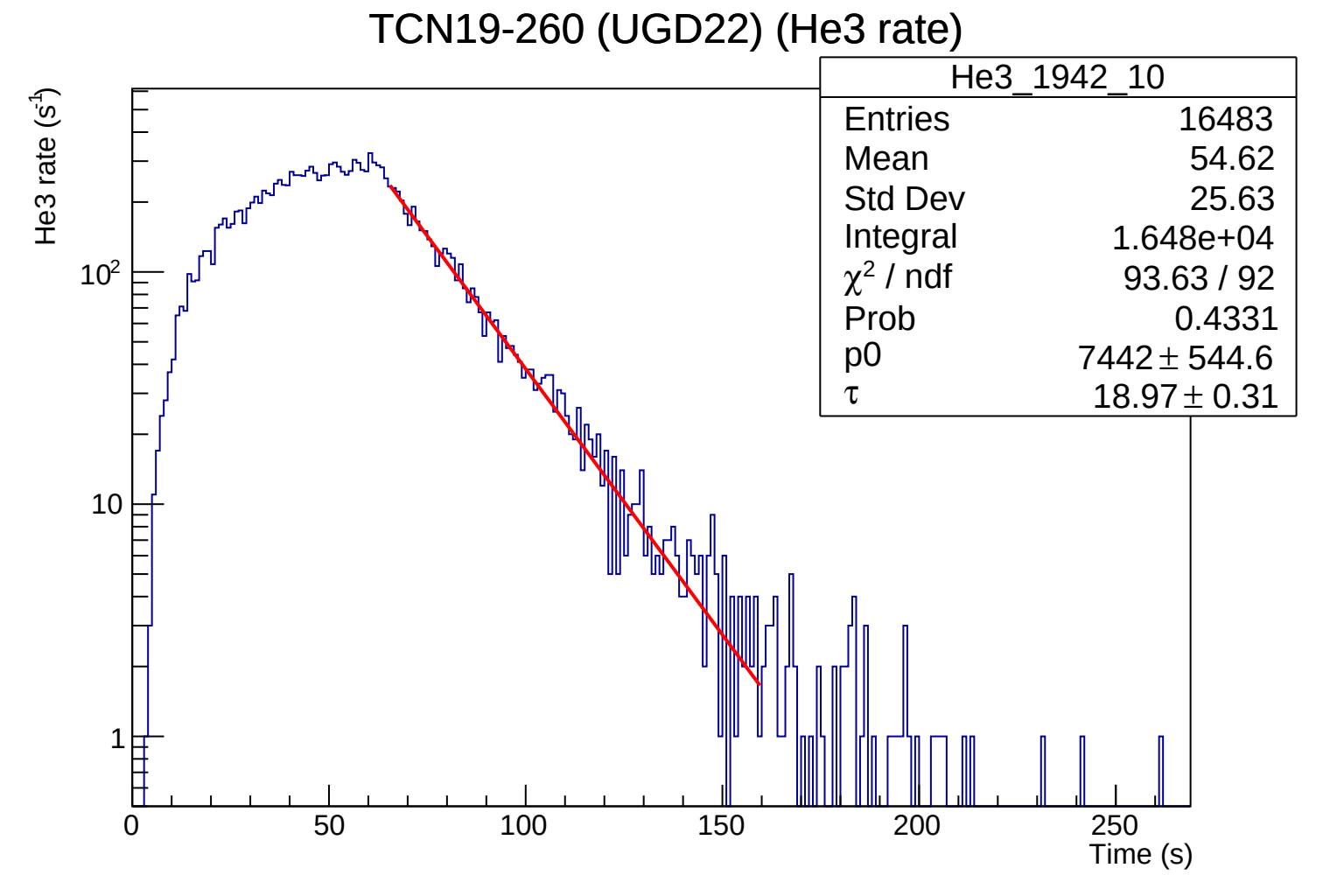

TCN19-260 (UGD22) (He3 rate)
He3_1942_5
Entries 16345
Mean 54.87
Std Dev 25.95
Integral 1.634e+04
χ² / ndf 110.6 / 93
Prob 0.1032
p0 7335 ± 558.6
τ 19.02 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

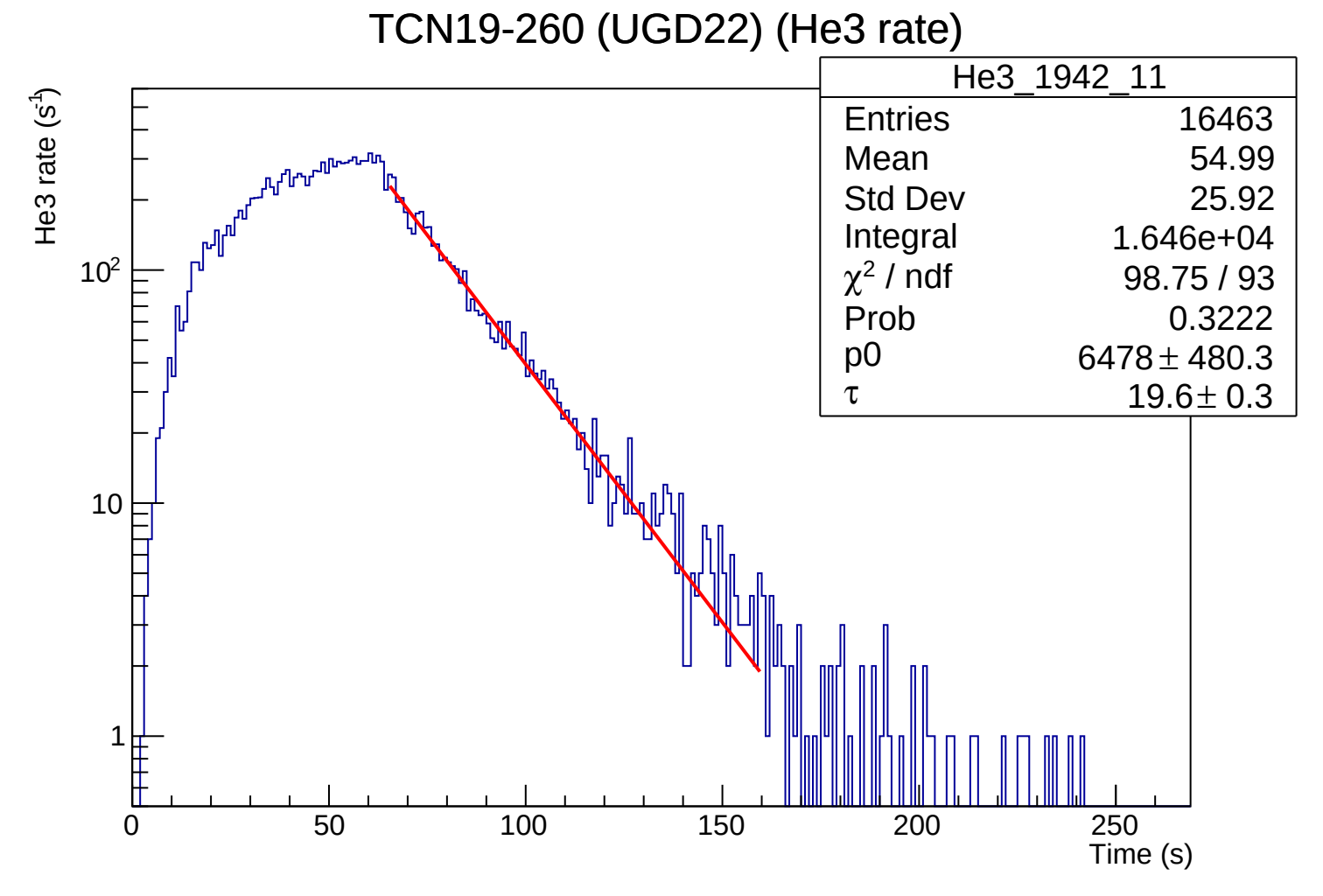

TCN19-260 (UGD22) (He3 rate)
He3_1942_6
Entries 16293
Mean 54.72
Std Dev 25.83
Integral 1.629e+04
χ² / ndf 69.62 / 92
Prob 0.9605
p0 5761± 432.4
τ 20.12 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

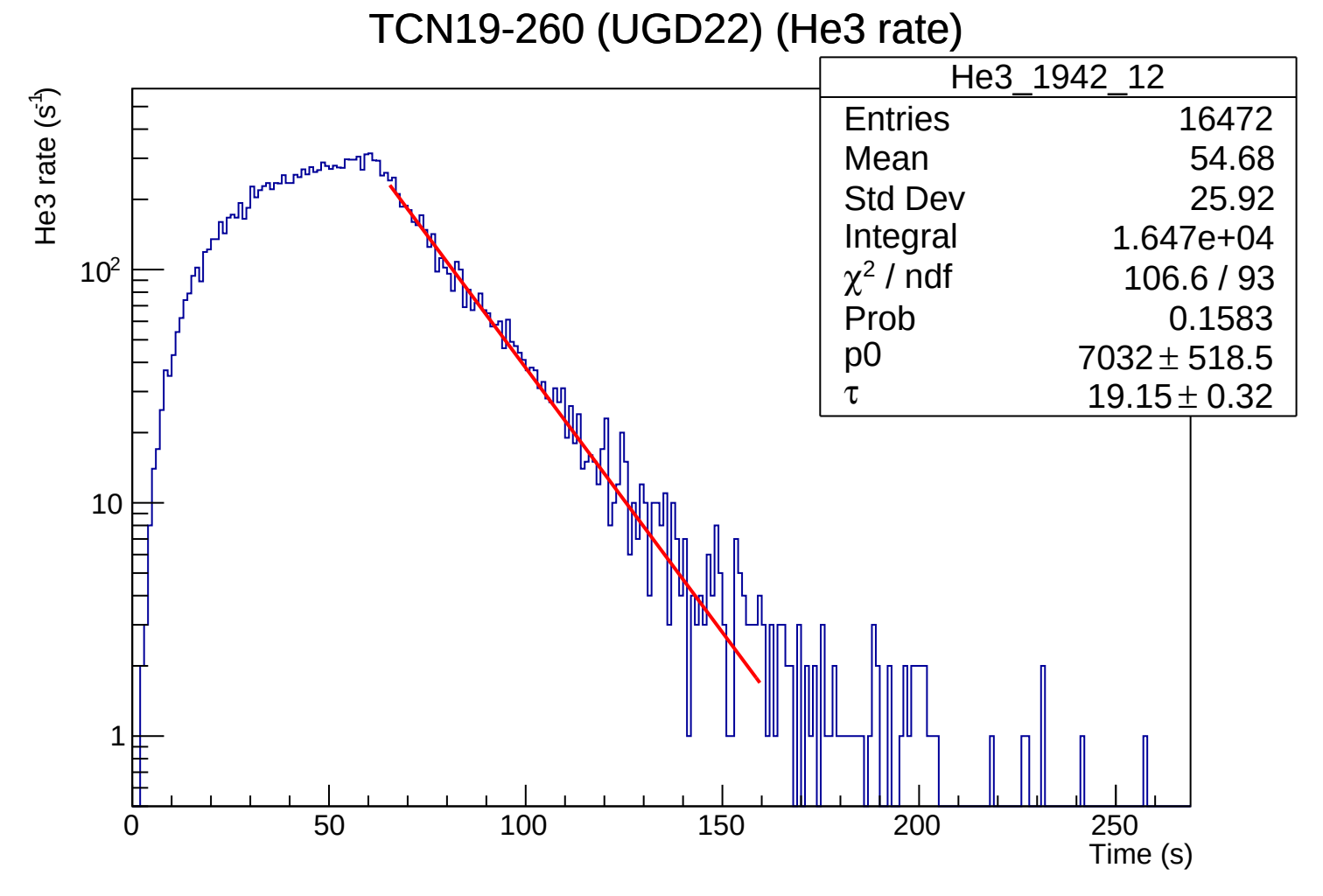

TCN19-260 (UGD22) (He3 rate)
He3_1942_7
Entries 16549
Mean 54.85
Std Dev 26.42
Integral 1.655e+04
χ² / ndf 103.7 / 91
Prob 0.1704
p0 6206 ± 475.8
τ 19.79 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

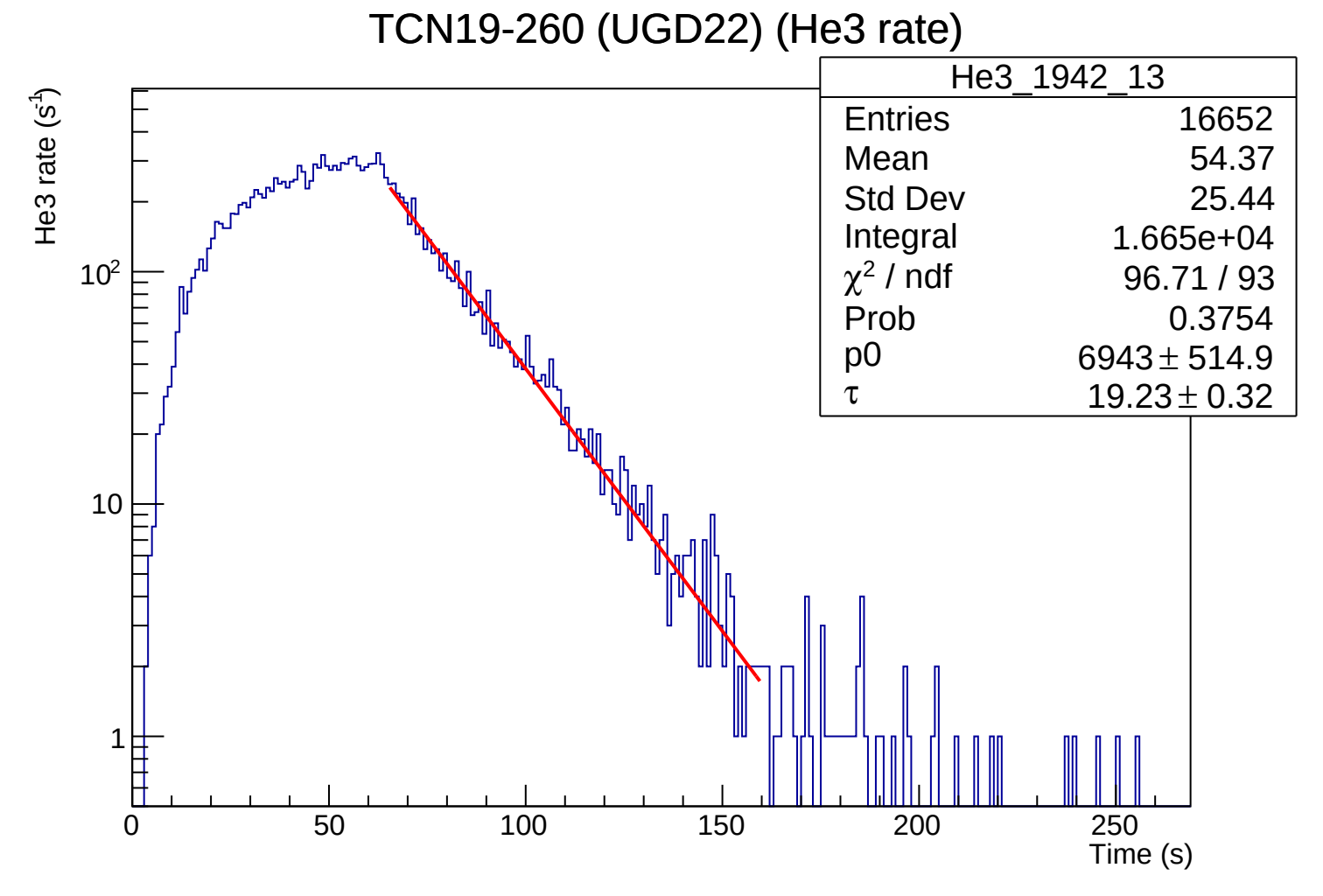

TCN19-260 (UGD22) (He3 rate)
He3_1942_8
Entries 16437
Mean 54.71
Std Dev 26.08
Integral 1.644e+04
χ² / ndf 153.9 / 93
Prob 7.293e–05
p0 7874 ± 565.5
τ 18.69 ± 0.30
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

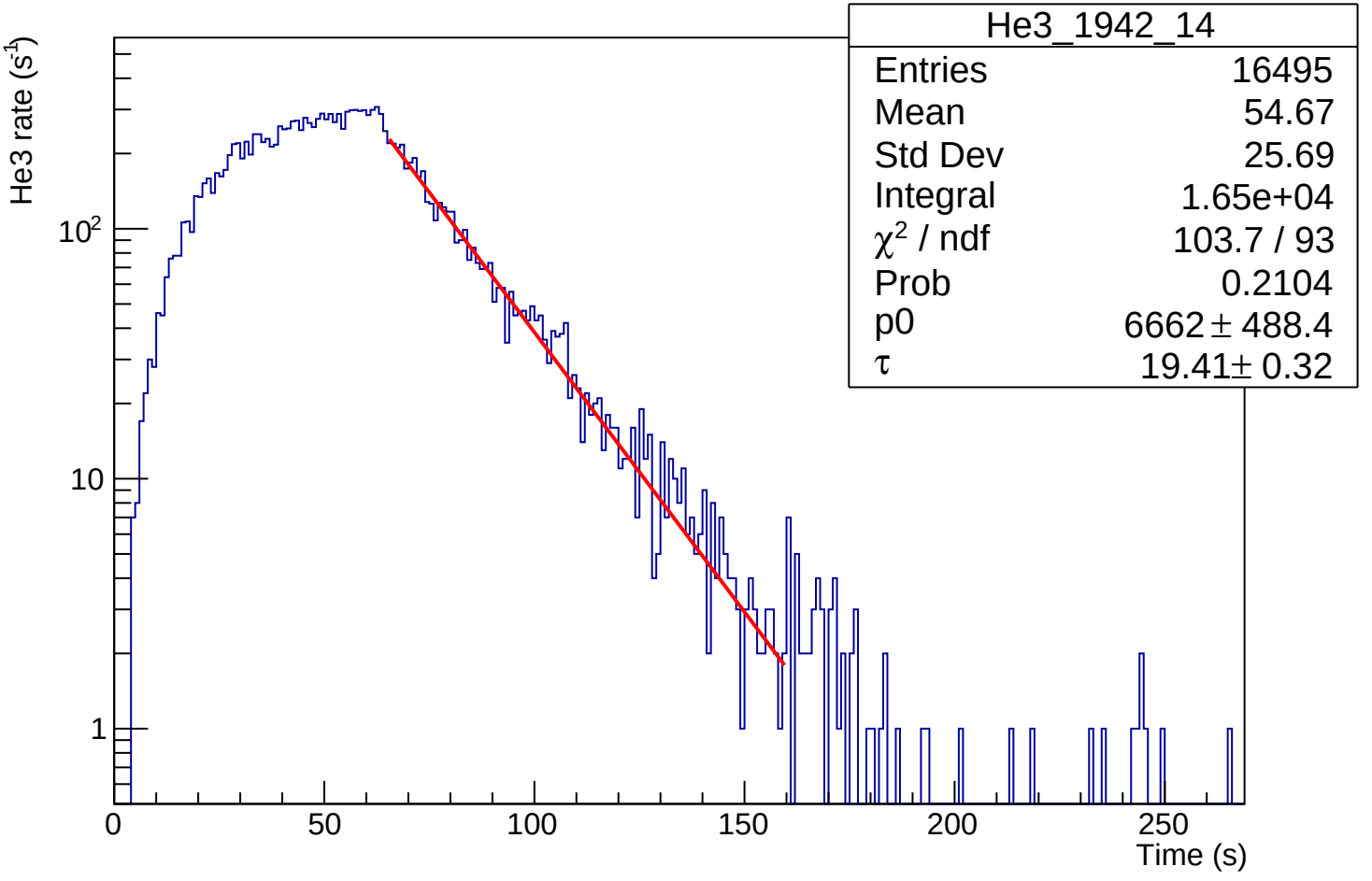

TCN19-260 (UGD22) (He3 rate)
He3_1942_9
Entries 16524
Mean 54.8
Std Dev 26.01
Integral 1.652e+04
χ² / ndf 81.05 / 91
Prob 0.7631
p0 6629 ± 495.5
τ 19.48 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

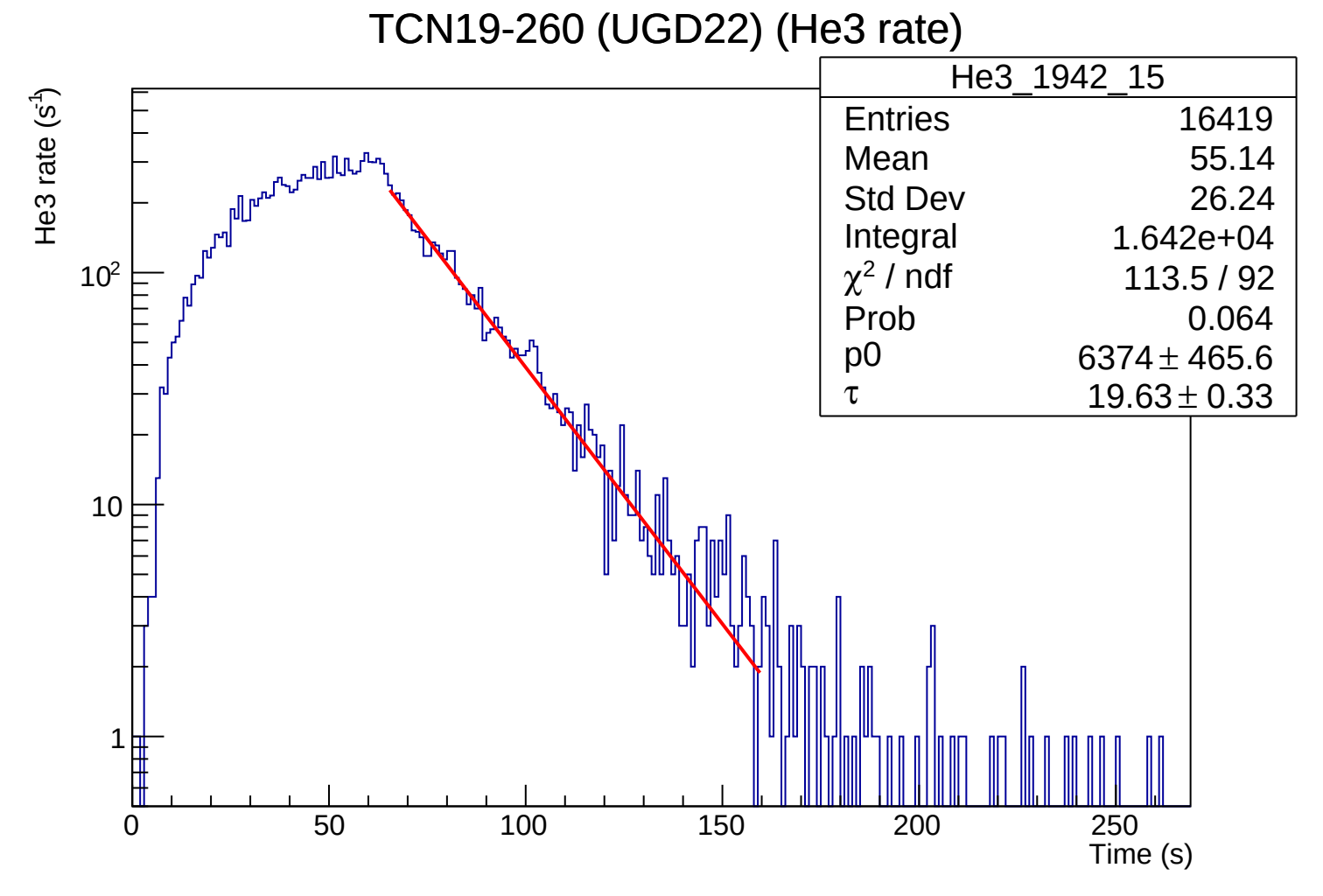

TCN19-260 (UGD22) (He3 rate)
He3_1942_10
Entries 16483
Mean 54.62
Std Dev 25.63
Integral 1.648e+04
χ² / ndf 93.63 / 92
Prob 0.4331
p0 7442 ± 544.6
τ 18.97 ± 0.31
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

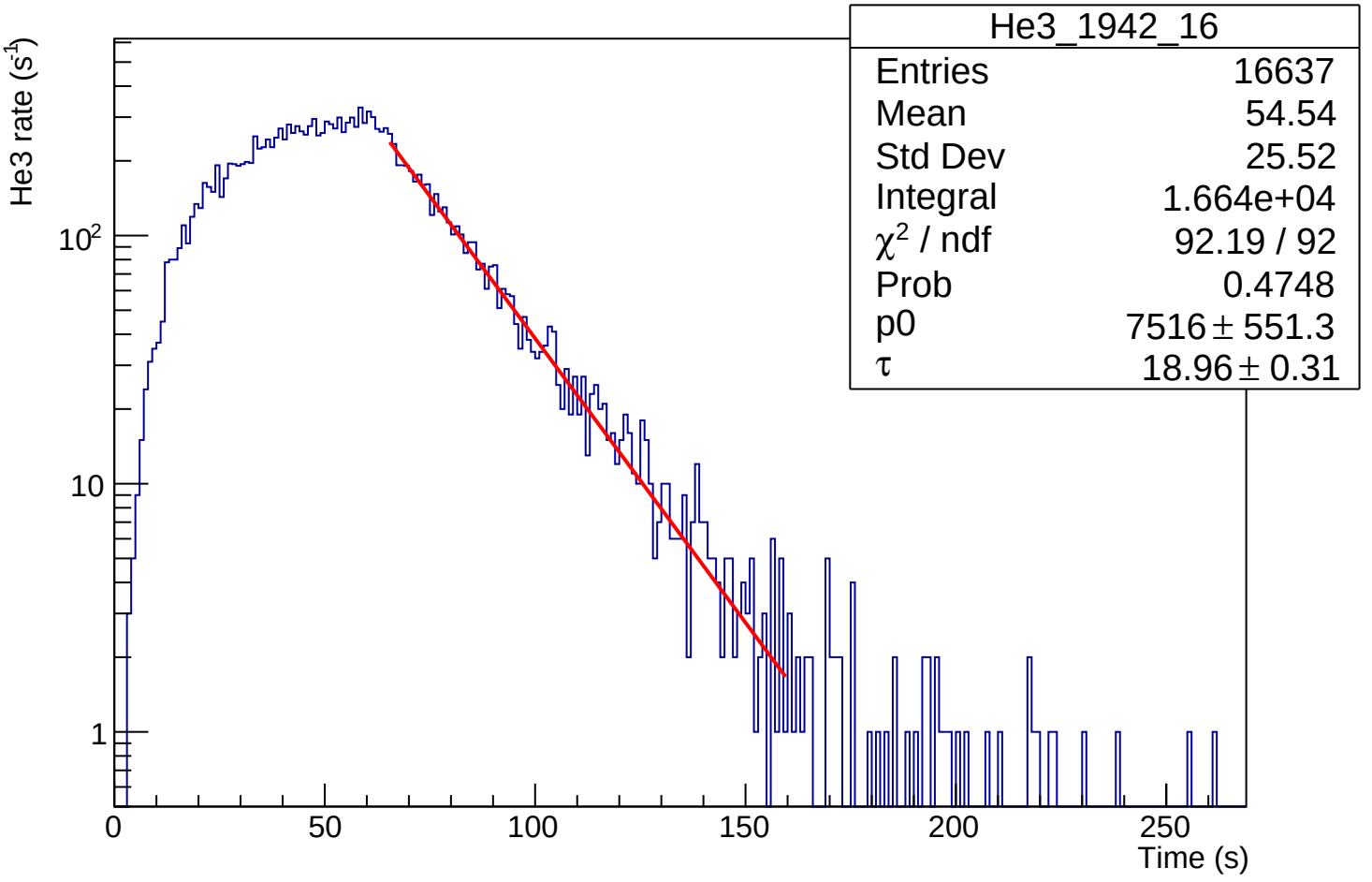

TCN19-260 (UGD22) (He3 rate)
He3_1942_11
Entries 16463
Mean 54.99
Std Dev 25.92
Integral 1.646e+04
χ² / ndf 98.75 / 93
Prob 0.3222
p0 6478 ± 480.3
τ 19.6 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

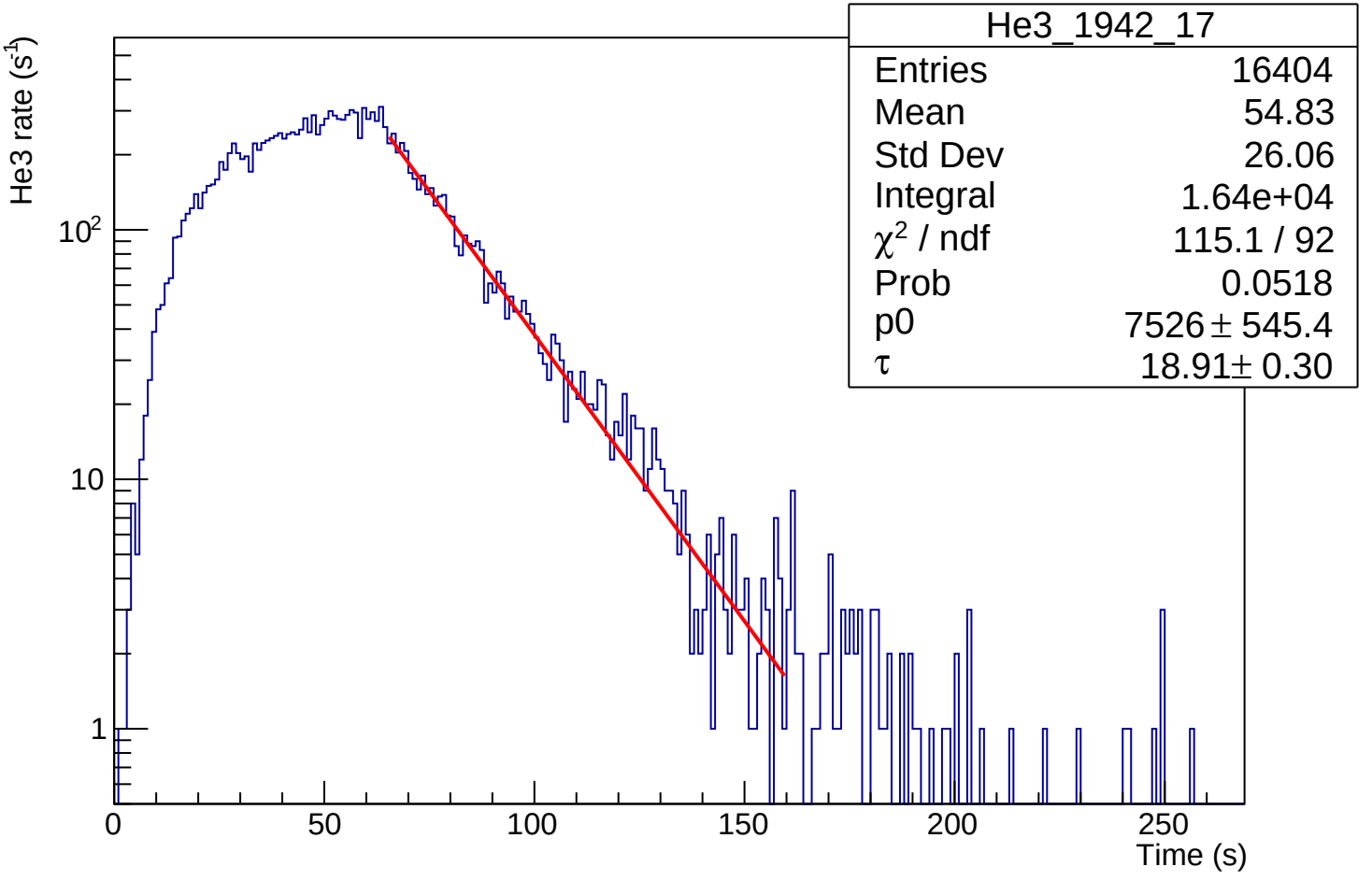

TCN19-260 (UGD22) (He3 rate)
He3_1942_12
Entries 16472
Mean 54.68
Std Dev 25.92
Integral 1.647e+04
χ² / ndf 106.6 / 93
Prob 0.1583
p0 7032 ± 518.5
τ 19.15 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

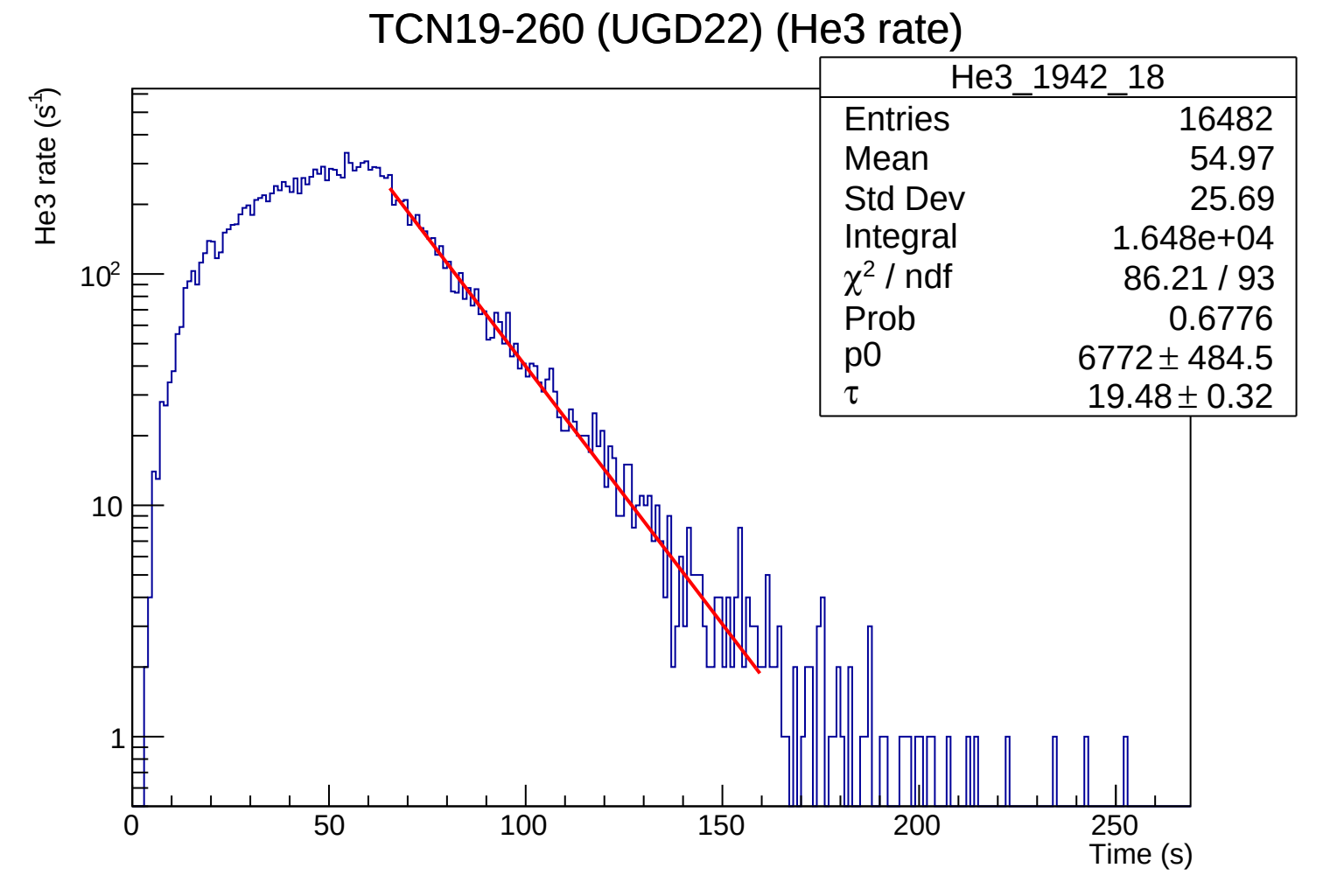

TCN19-260 (UGD22) (He3 rate)
He3_1942_13
Entries 16652
Mean 54.37
Std Dev 25.44
Integral 1.665e+04
χ² / ndf 96.71 / 93
Prob 0.3754
p0 6943 ± 514.9
τ 19.23 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

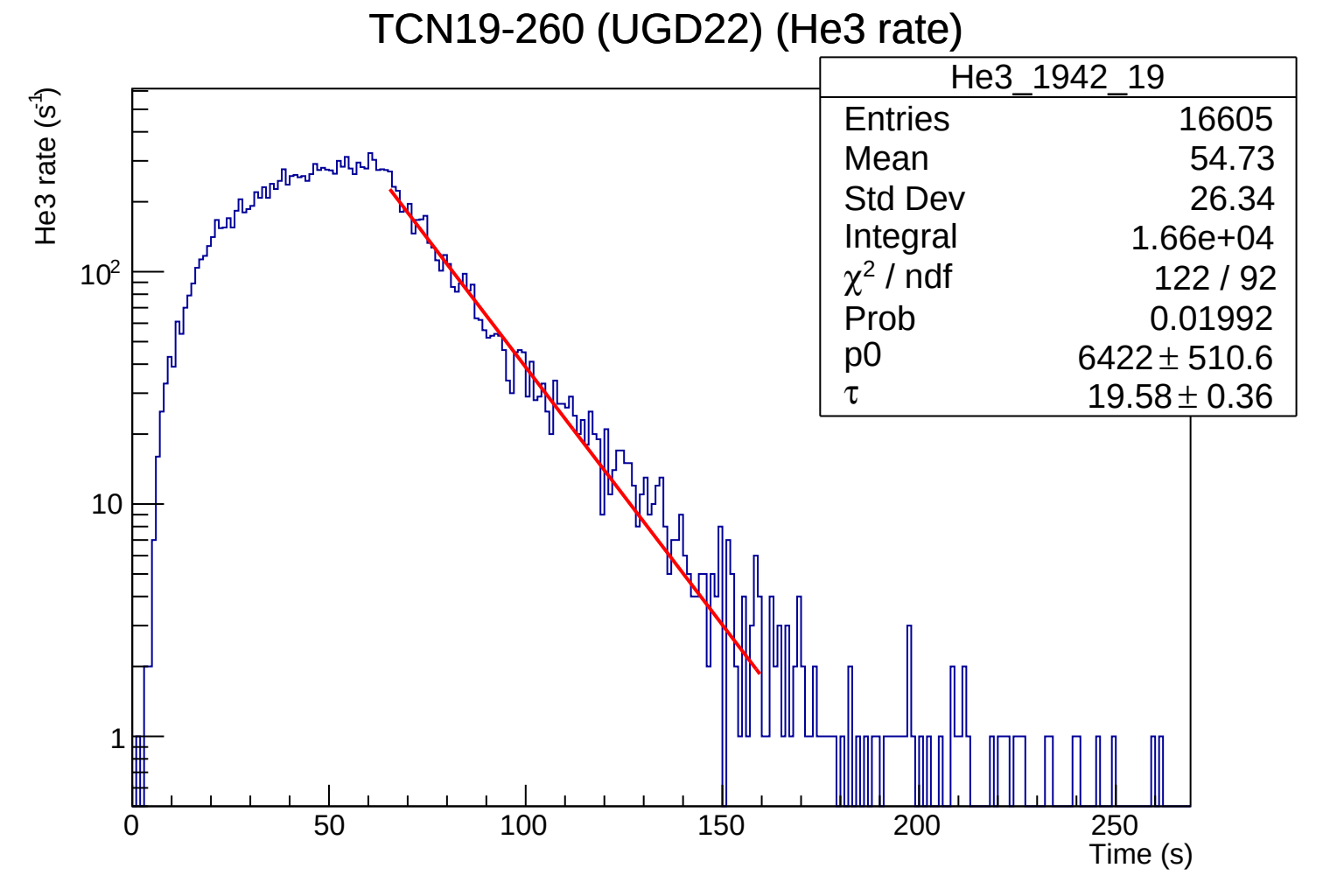

TCN19-260 (UGD22) (He3 rate)
He3_1942_14
Entries 16495
Mean 54.67
Std Dev 25.69
Integral 1.65e+04
χ² / ndf 103.7 / 93
Prob 0.2104
p0 6662 ± 488.4
τ 19.41 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

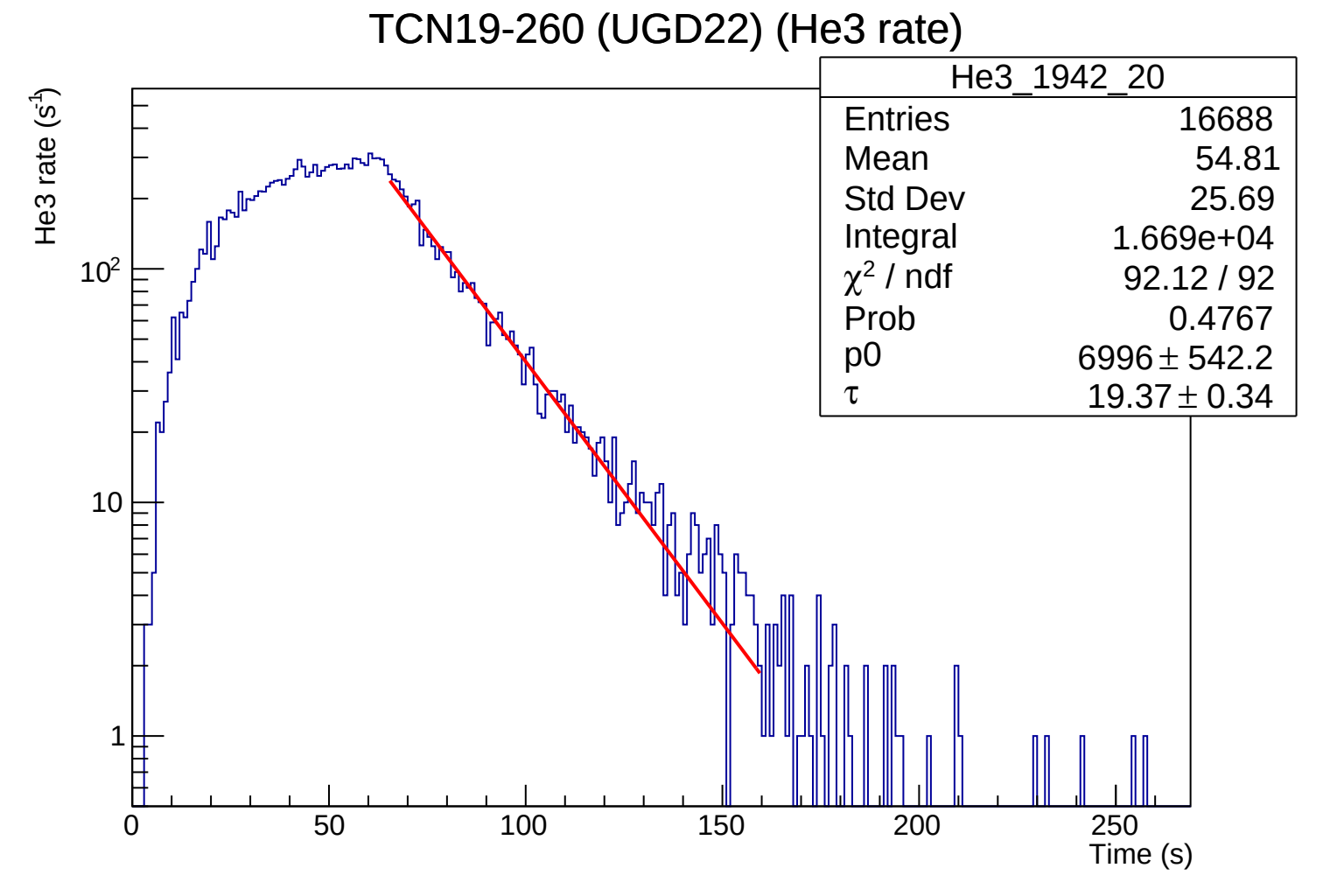

TCN19-260 (UGD22) (He3 rate)
He3_1942_15
Entries 16419
Mean 55.14
Std Dev 26.24
Integral 1.642e+04
χ² / ndf 113.5 / 92
Prob 0.064
p0 6374 ± 465.6
τ 19.63 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

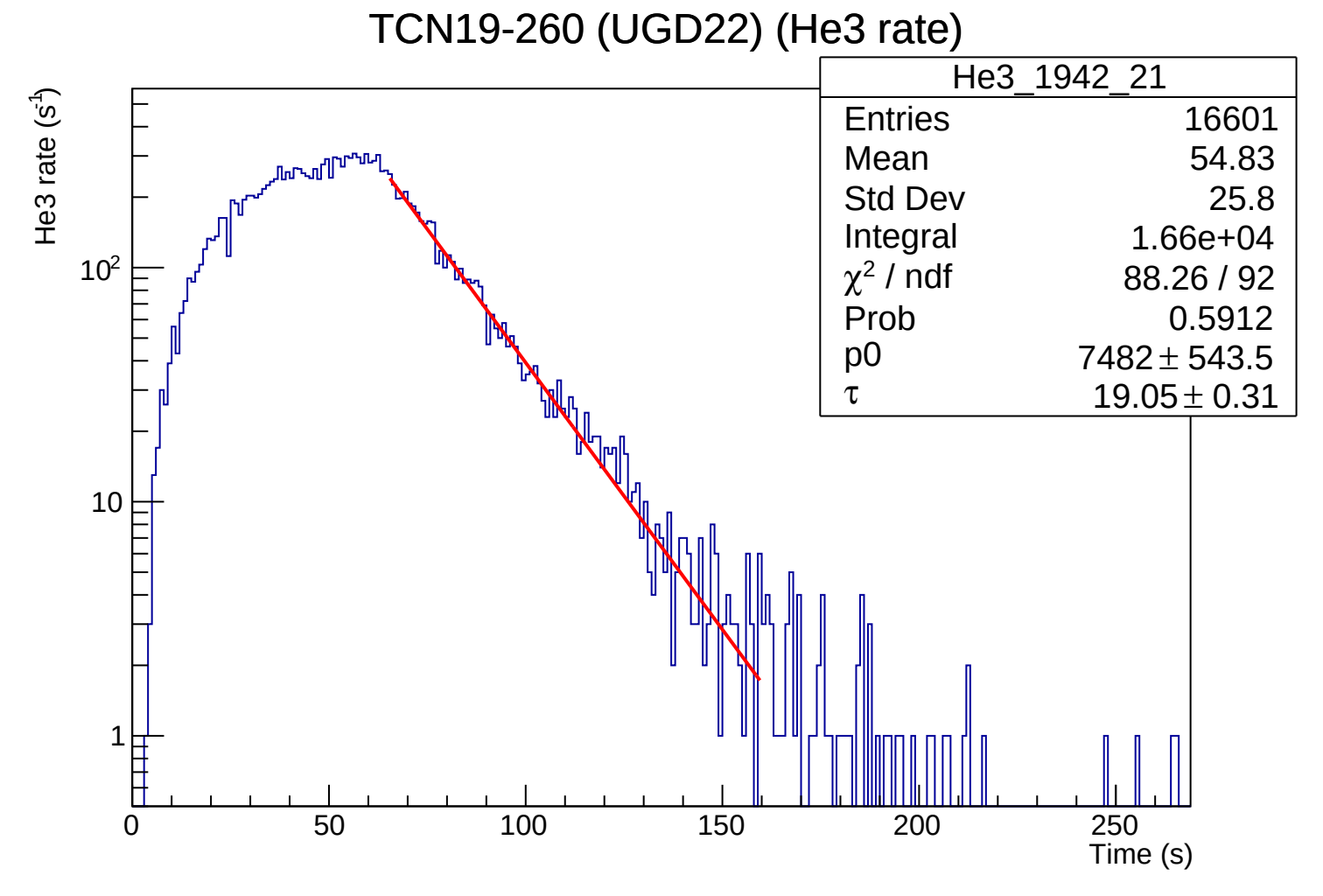

TCN19-260 (UGD22) (He3 rate)
He3_1942_16
Entries 16637
Mean 54.54
Std Dev 25.52
Integral 1.664e+04
χ² / ndf 92.19 / 92
Prob 0.4748
p0 7516 ± 551.3
τ 18.96 ± 0.31
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

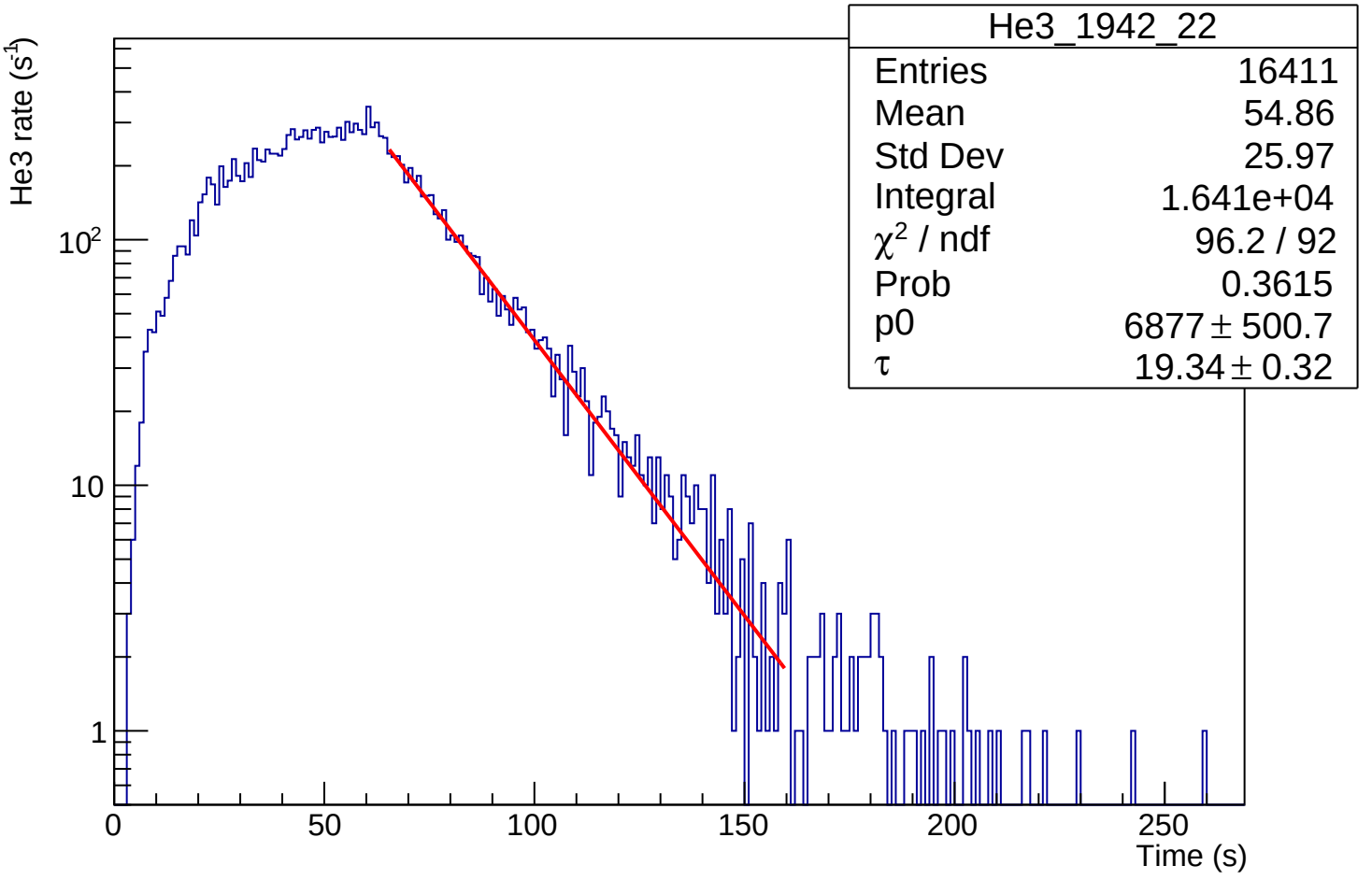

TCN19-260 (UGD22) (He3 rate)
He3_1942_17
Entries 16404
Mean 54.83
Std Dev 26.06
Integral 1.64e+04
χ² / ndf 115.1 / 92
Prob 0.0518
p0 7526 ± 545.4
τ 18.91 ± 0.30
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

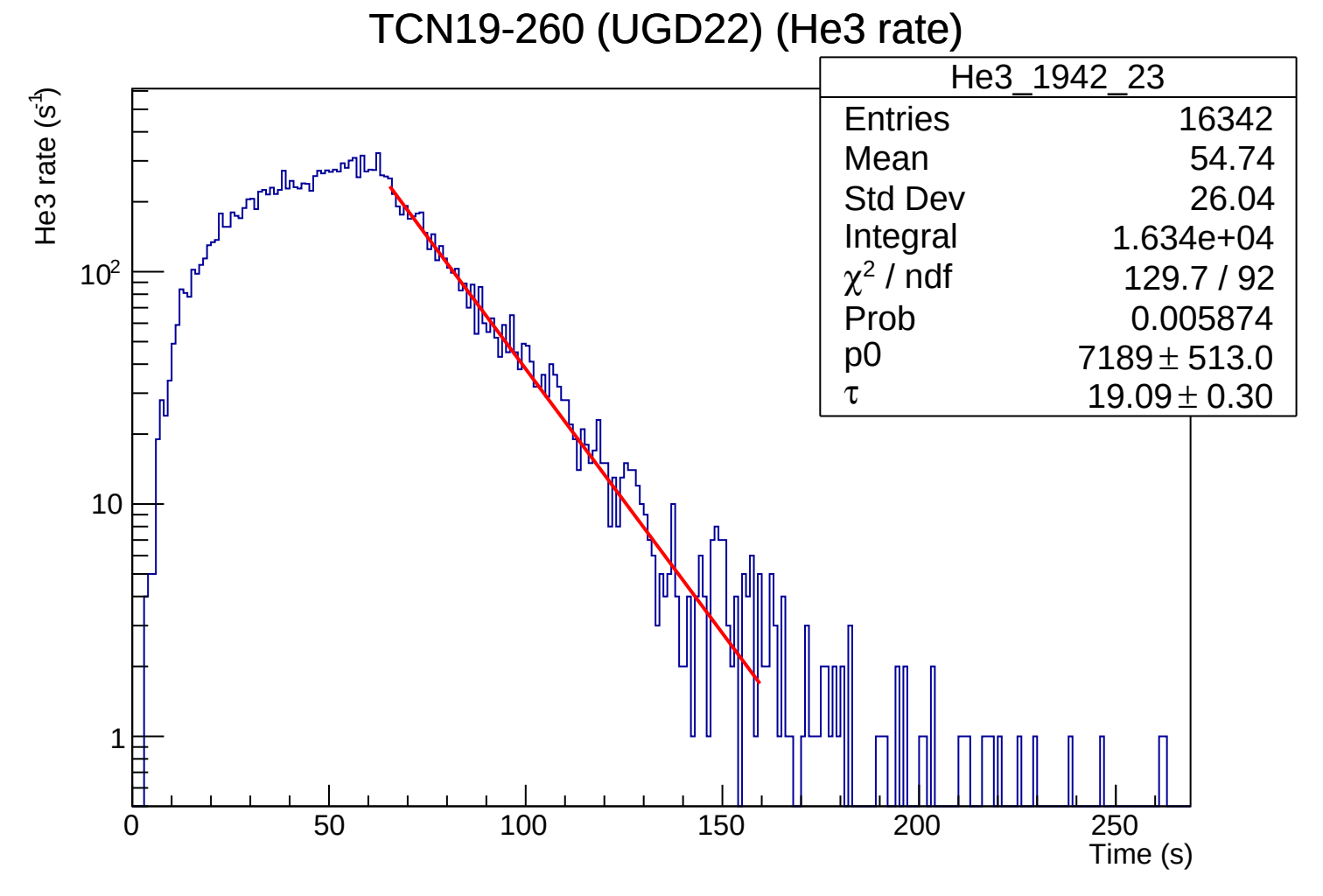

TCN19-260 (UGD22) (He3 rate)
He3_1942_18
Entries 16482
Mean 54.97
Std Dev 25.69
Integral 1.648e+04
χ² / ndf 86.21 / 93
Prob 0.6776
p0 6772 ± 484.5
τ 19.48 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

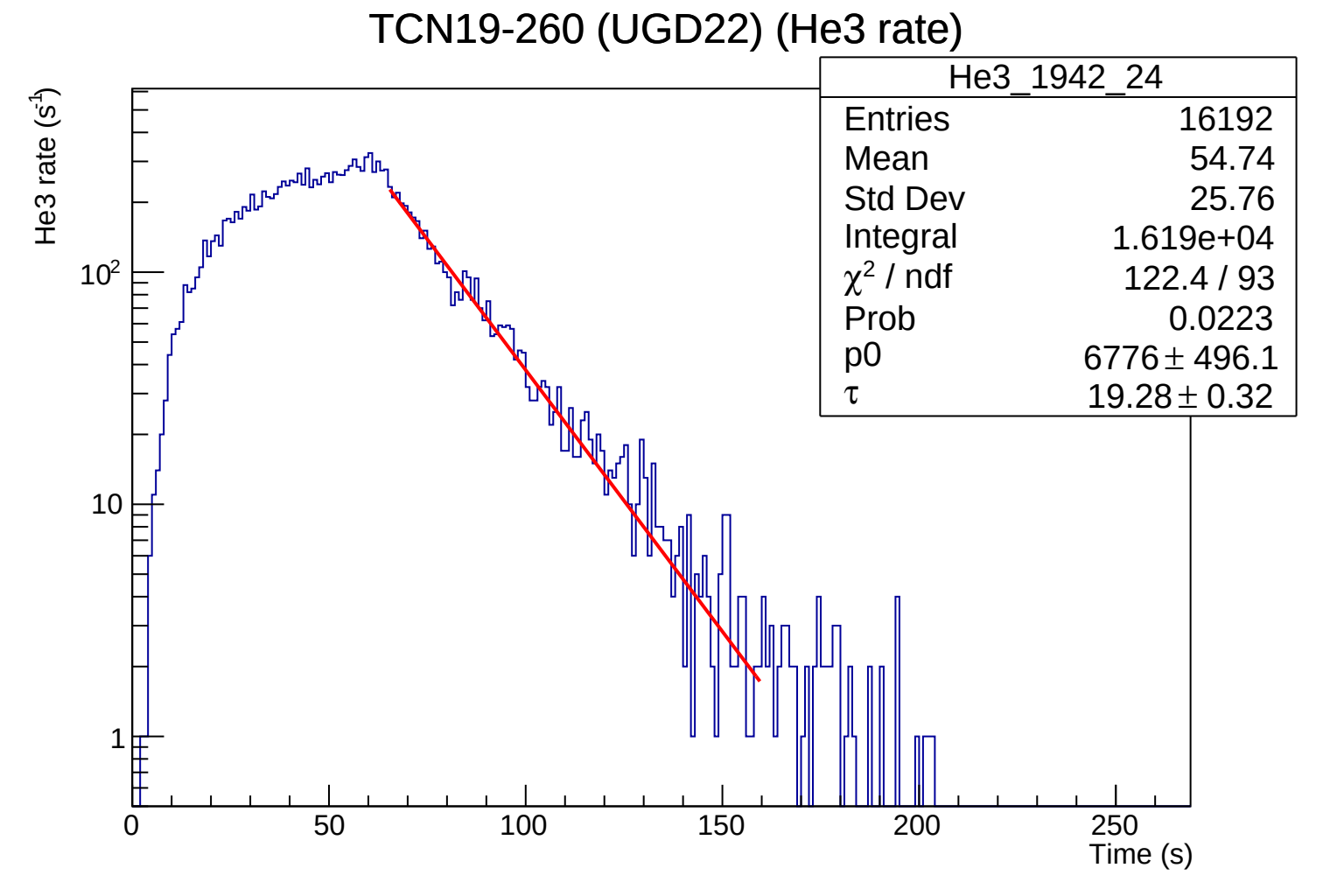

TCN19-260 (UGD22) (He3 rate)
He3_1942_19
Entries 16605
Mean 54.73
Std Dev 26.34
Integral 1.66e+04
χ² / ndf 122 / 92
Prob 0.01992
p0 6422 ± 510.6
τ 19.58 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

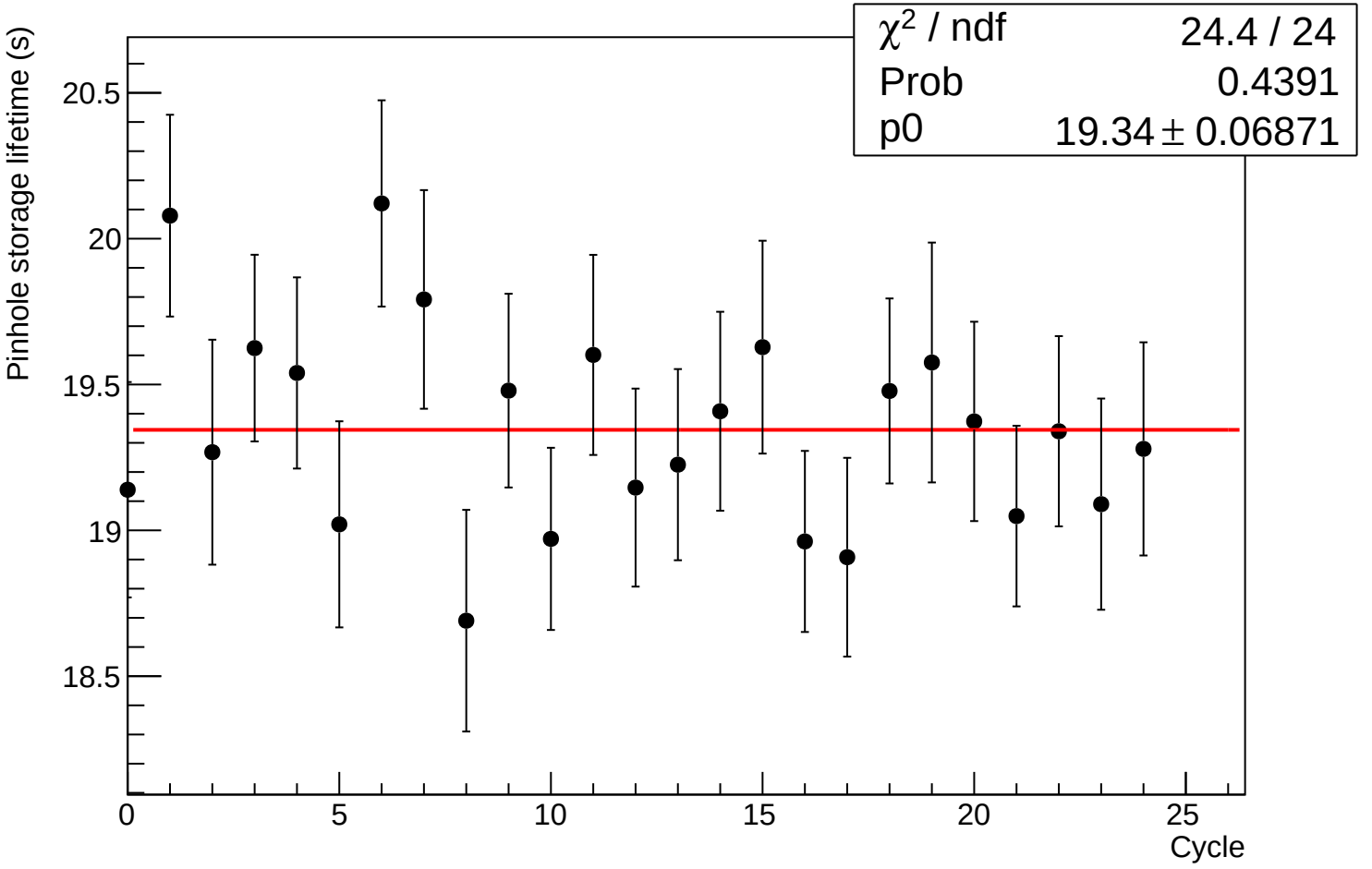

TCN19-260 (UGD22) (He3 rate)
He3_1942_20
Entries 16688
Mean 54.81
Std Dev 25.69
Integral 1.669e+04
χ² / ndf 92.12 / 92
Prob 0.4767
p0 6996 ± 542.2
τ 19.37 ± 0.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

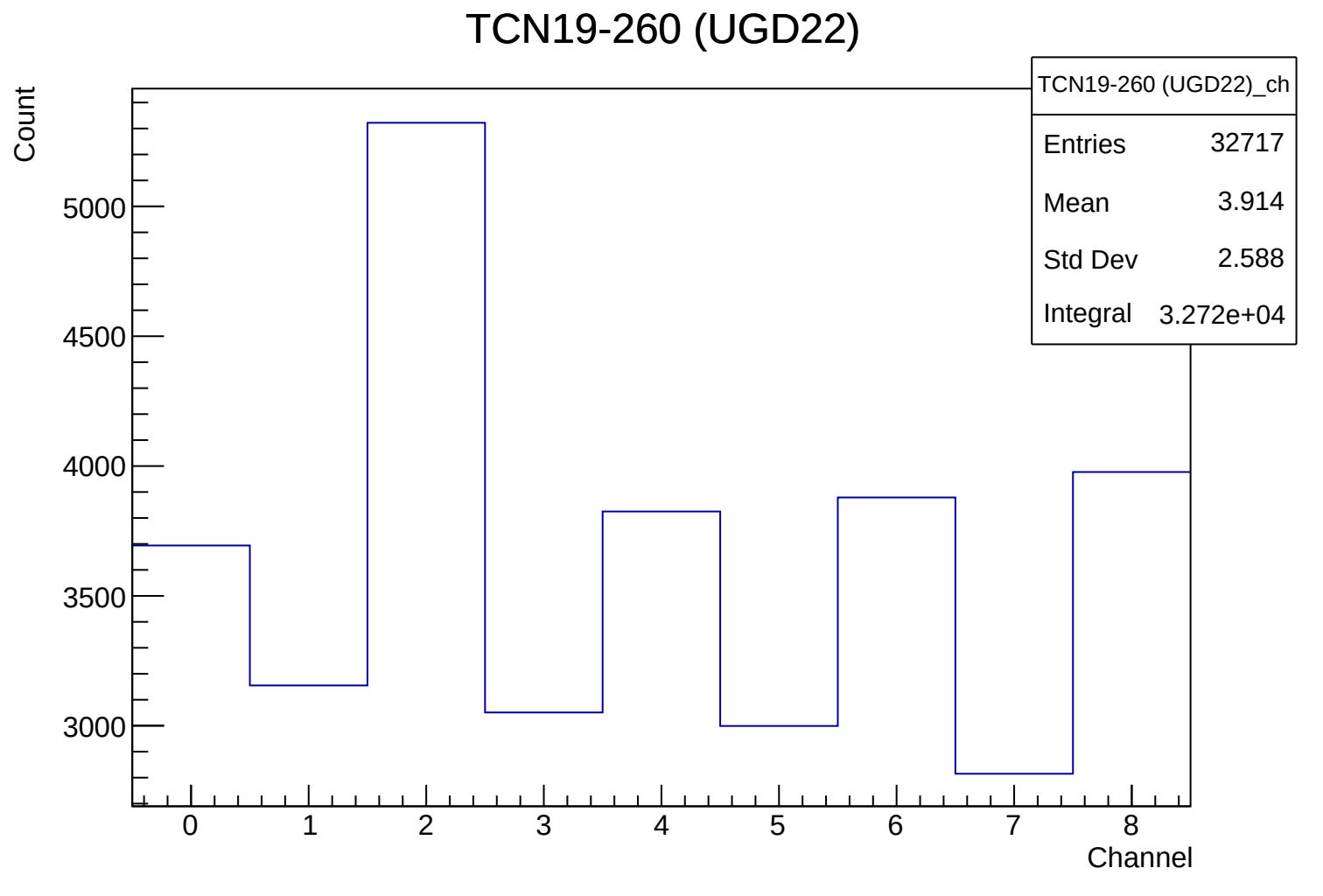

TCN19-260 (UGD22) (He3 rate)
He3_1942_21
Entries 16601
Mean 54.83
Std Dev 25.8
Integral 1.66e+04
χ² / ndf 88.26 / 92
Prob 0.5912
p0 7482 ± 543.5
τ 19.05 ± 0.31
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-260 (UGD22) (He3 rate)
He3_1942_22
Entries 16411
Mean 54.86
Std Dev 25.97
Integral 1.641e+04
χ² / ndf 96.2 / 92
Prob 0.3615
p0 6877 ± 500.7
τ 19.34 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-260 (UGD22) (He3 rate)
He3_1942_23
Entries 16342
Mean 54.74
Std Dev 26.04
Integral 1.634e+04
χ² / ndf 129.7 / 92
Prob 0.005874
p0 7189 ± 513.0
τ 19.09 ± 0.30
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-260 (UGD22) (He3 rate)
He3_1942_24
Entries 16192
Mean 54.74
Std Dev 25.76
Integral 1.619e+04
χ² / ndf 122.4 / 93
Prob 0.0223
p0 6776 ± 496.1
τ 19.28 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


χ^2 / ndf 24.4 / 24
Prob 0.4391
p0 19.34 ± 0.06871
Pinhole storage lifetime (s)
20.5
20
19.5
19
18.5
0
5
10
15
20
25
Cycle


TCN19-260 (UGD22)
TCN19-260 (UGD22)_ch
Entries 32717
Mean 3.914
Std Dev 2.588
Integral 3.272e+04
Count
5000
4500
4000
3500
3000
0
1
2
3
4
5
6
7
8
Channel