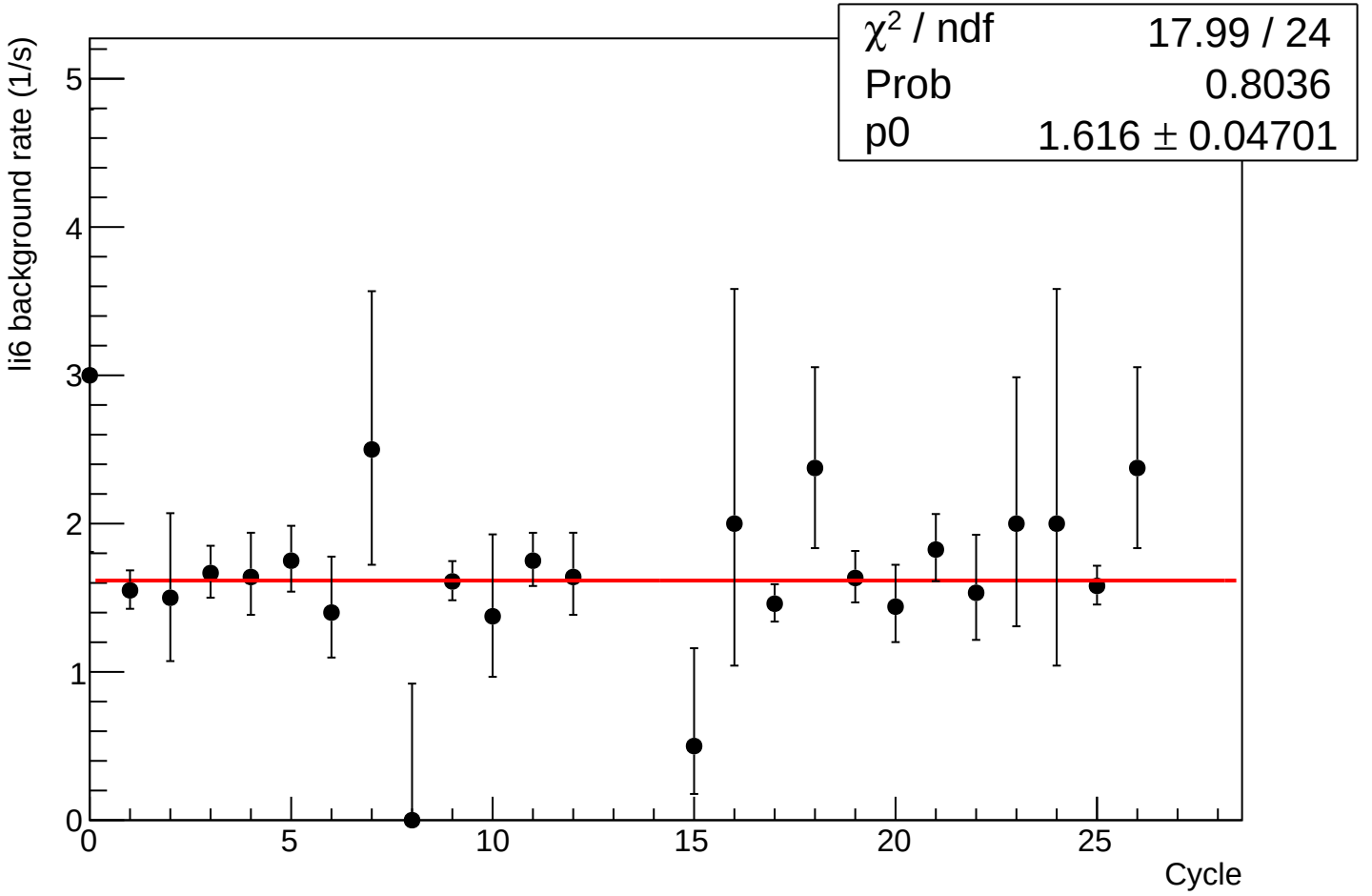
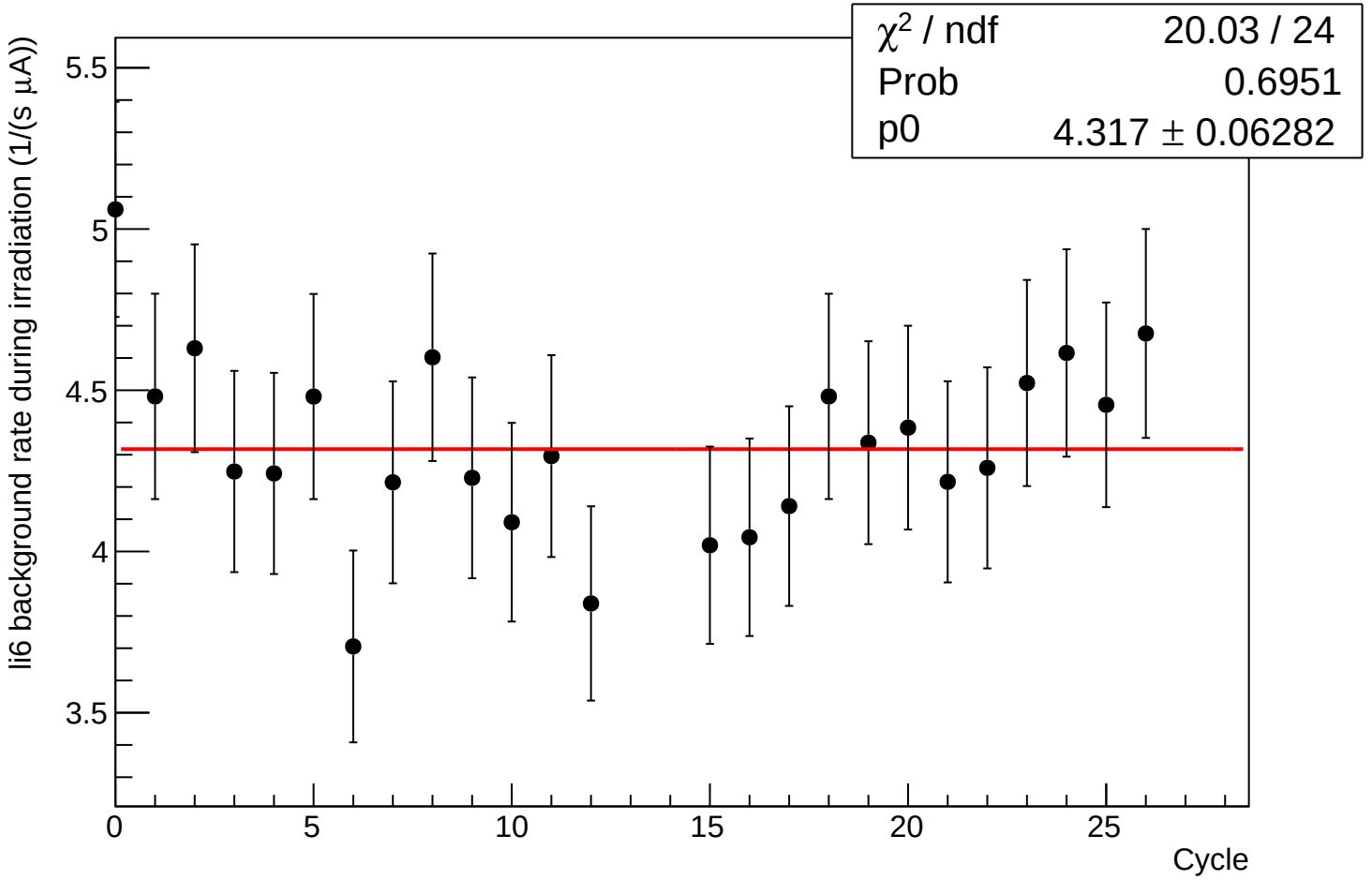
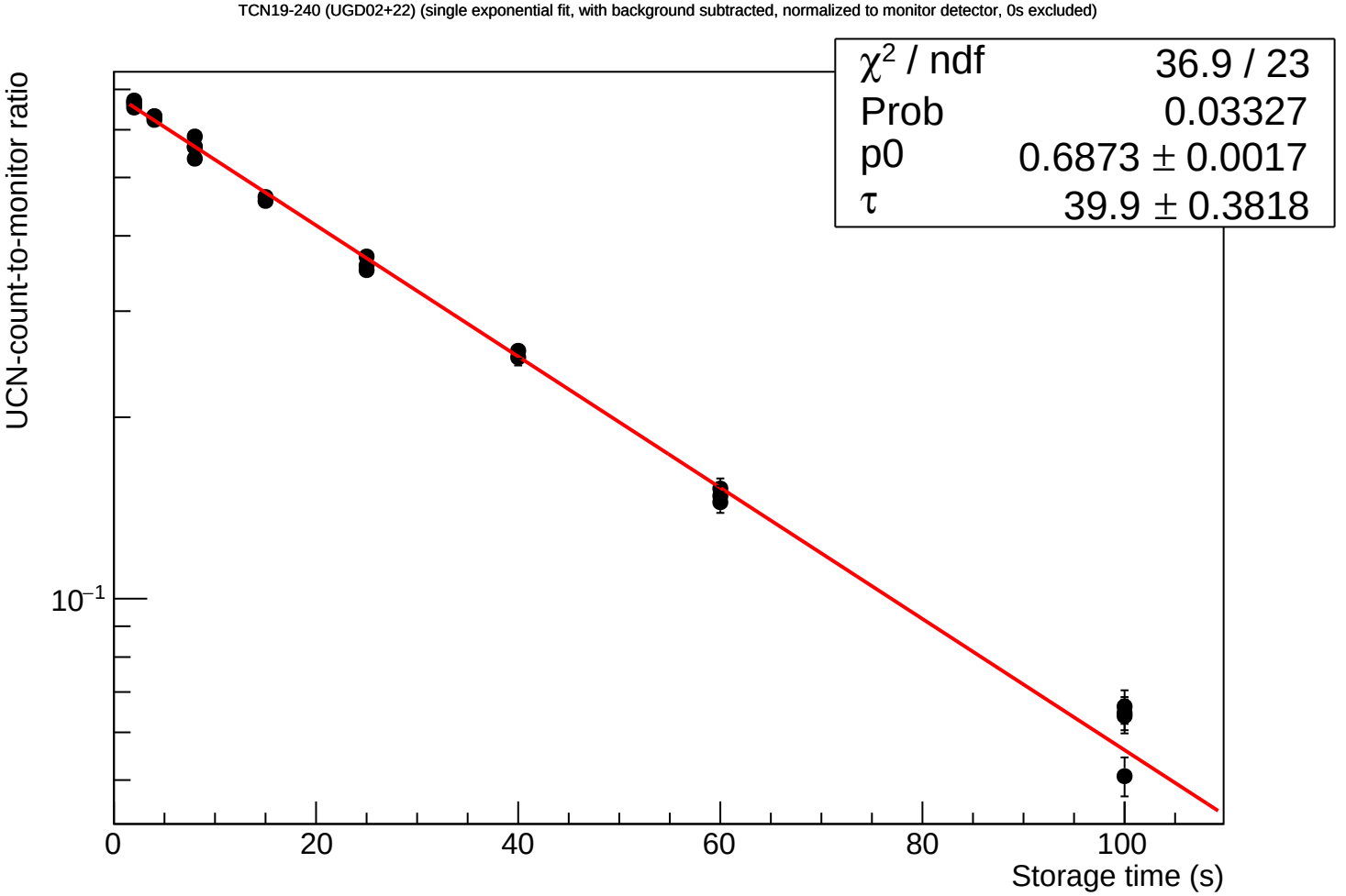
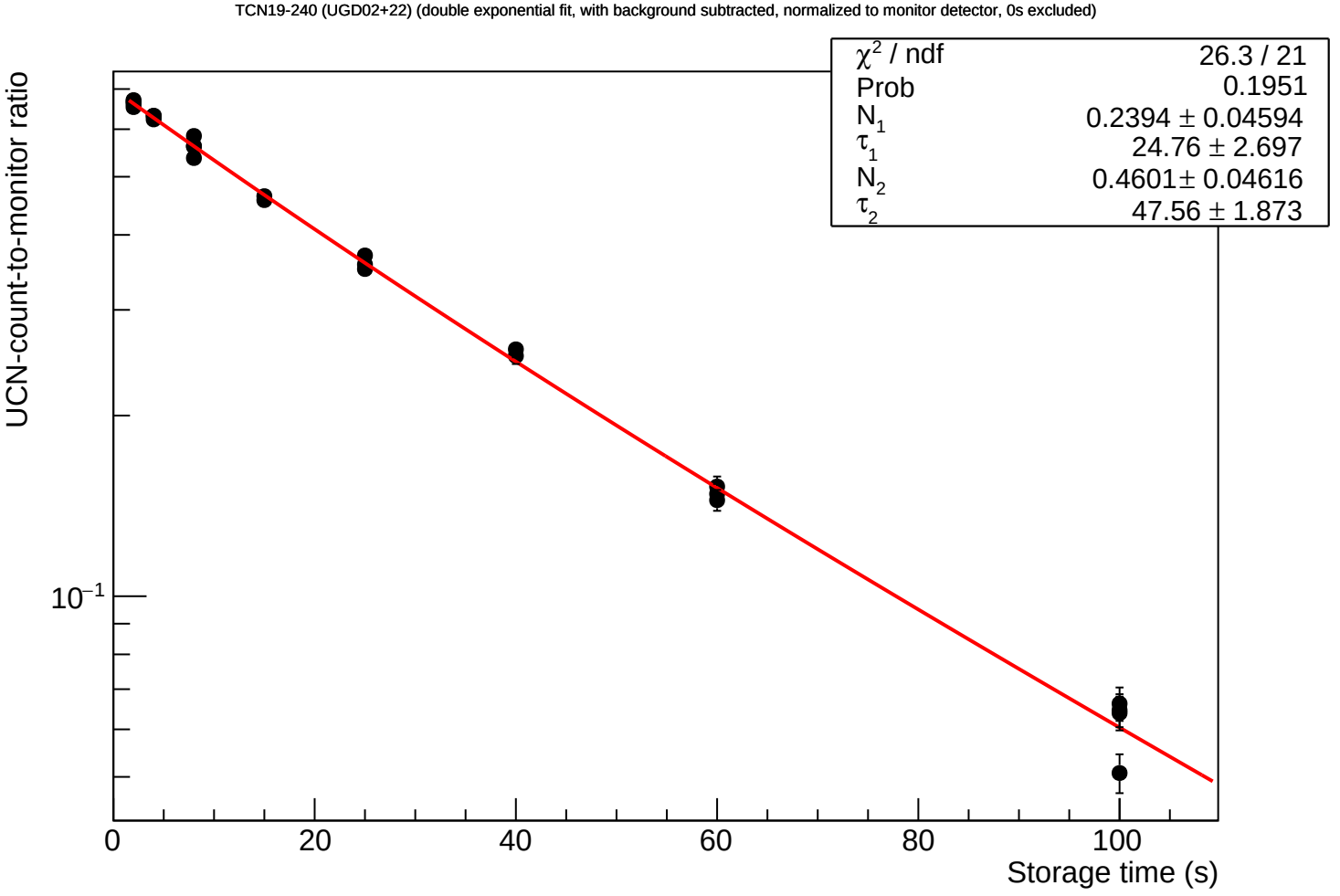
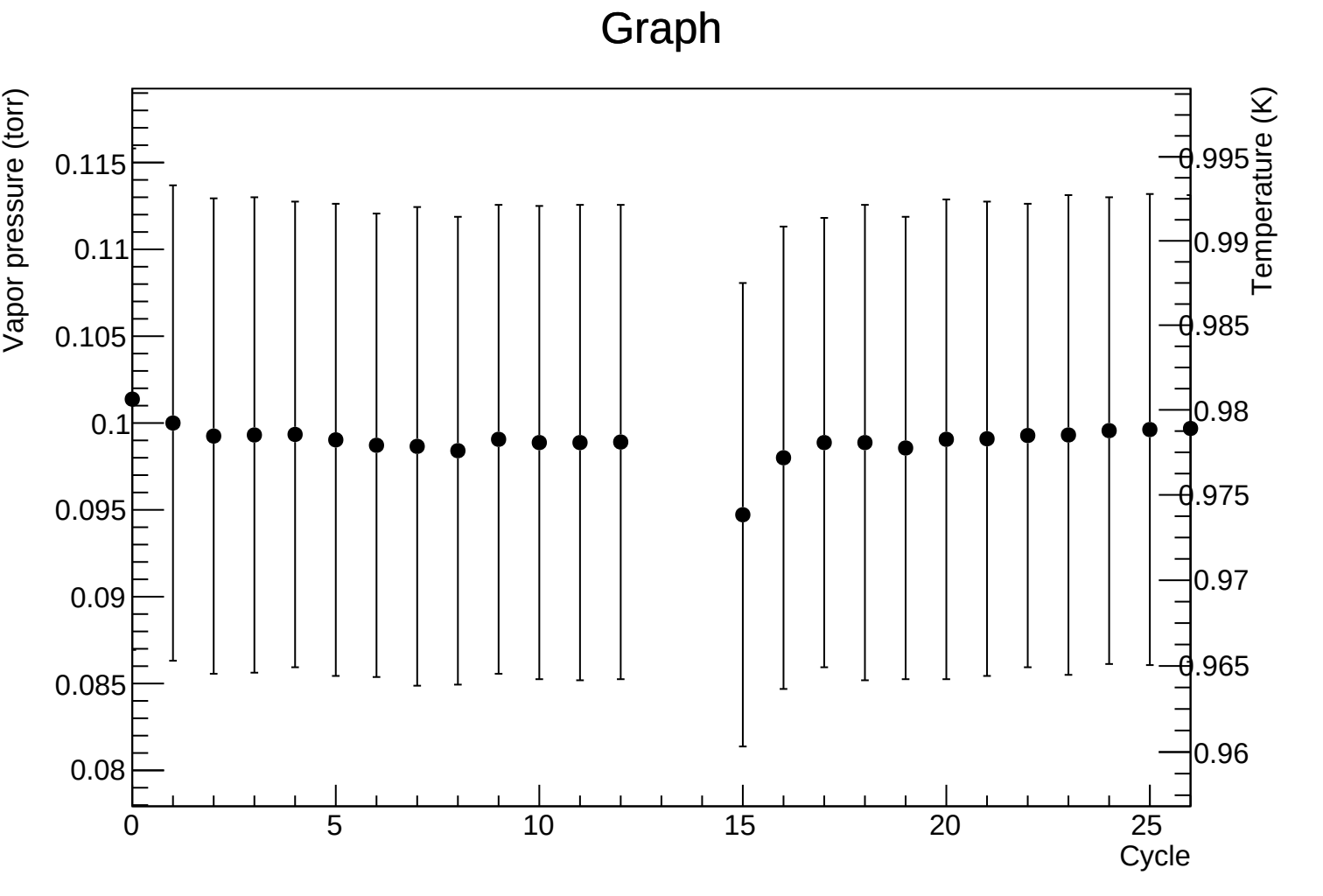
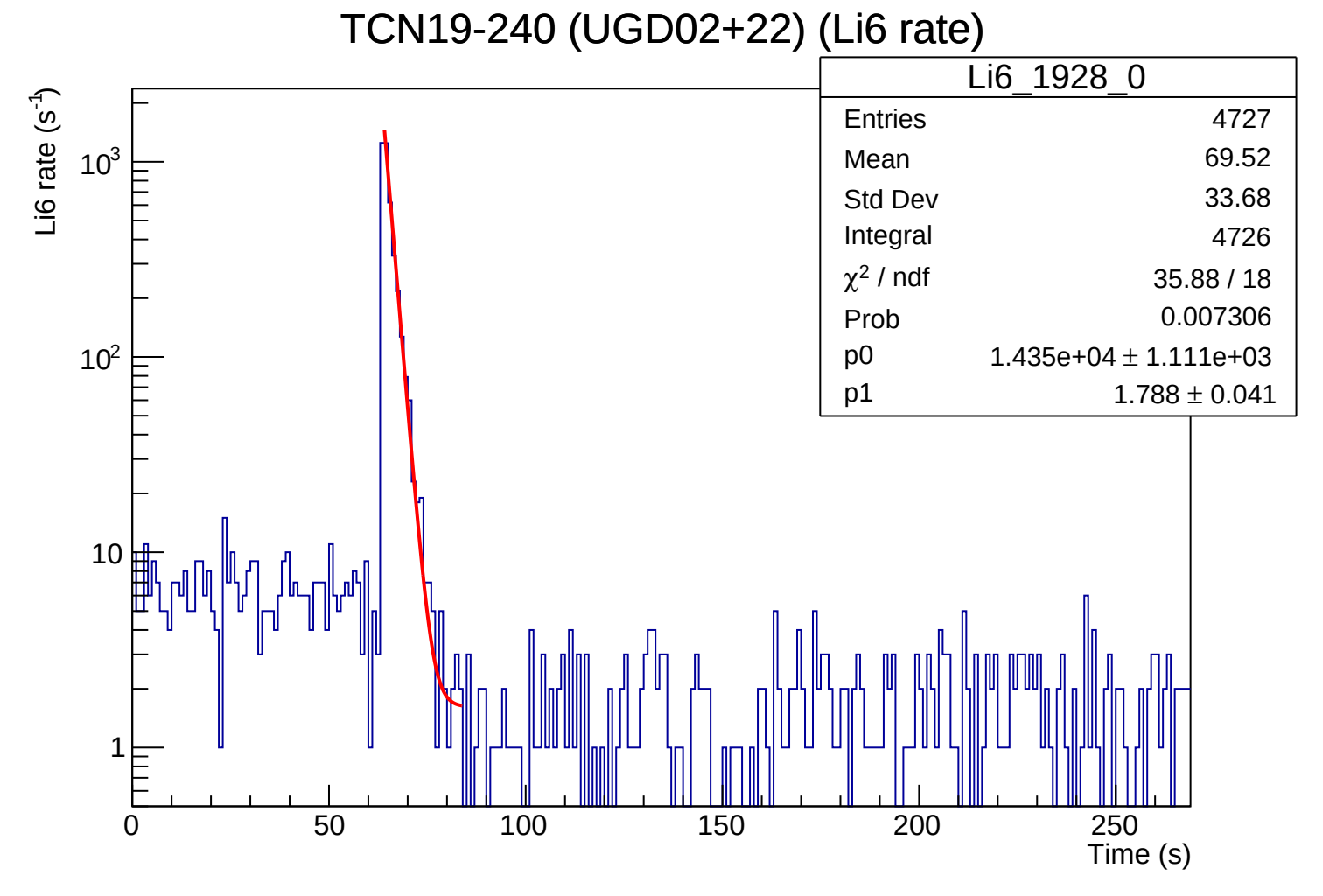

χ^2 / ndf 17.99 / 24
Prob 0.8036
p0 1.616 ± 0.04701
li6 background rate (1/s)
Cycle
0
1
2
3
4
5
0
5
10
15
20
25

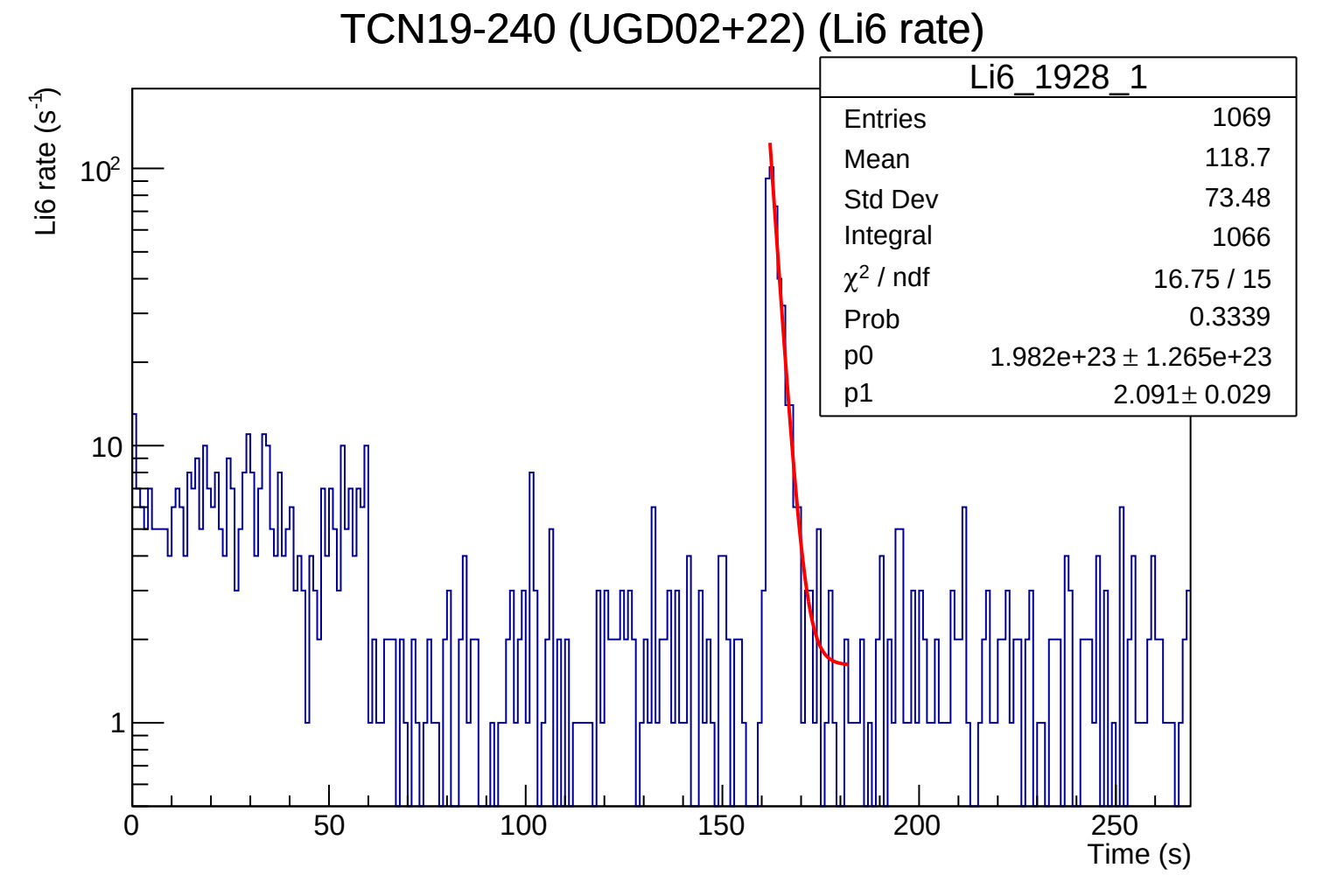

χ^2 / ndf 20.03 / 24
Prob 0.6951
p0 4.317 ± 0.06282
li6 background rate during irradiation (1/(s μA))
5.5
5
4.5
4
3.5
0
5
10
15
20
25
Cycle

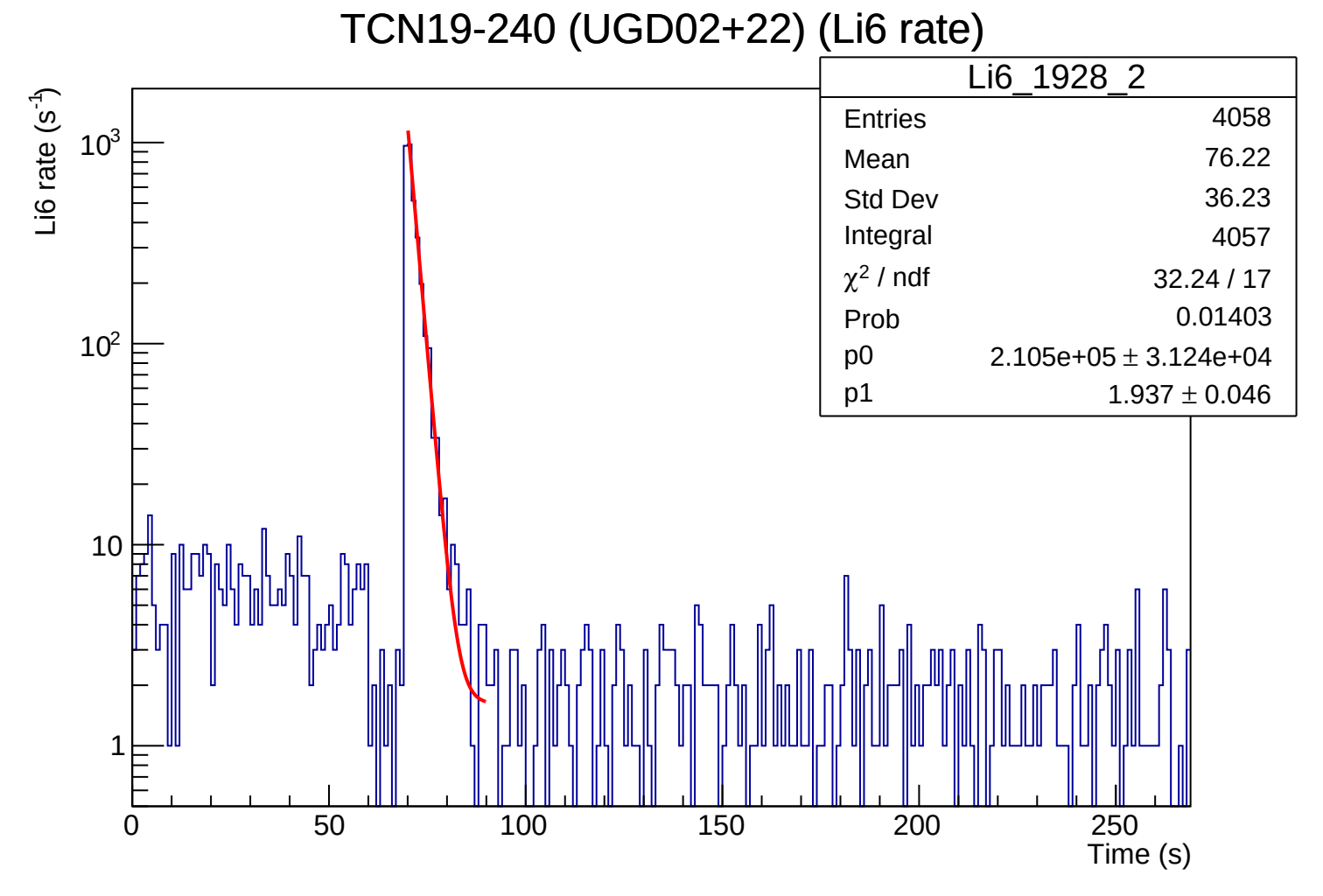

TCN19-240 (UGD02+22) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 36.9 / 23
Prob 0.03327
p0 0.6873 ± 0.0017
τ 39.9 ± 0.3818
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
Storage time (s)

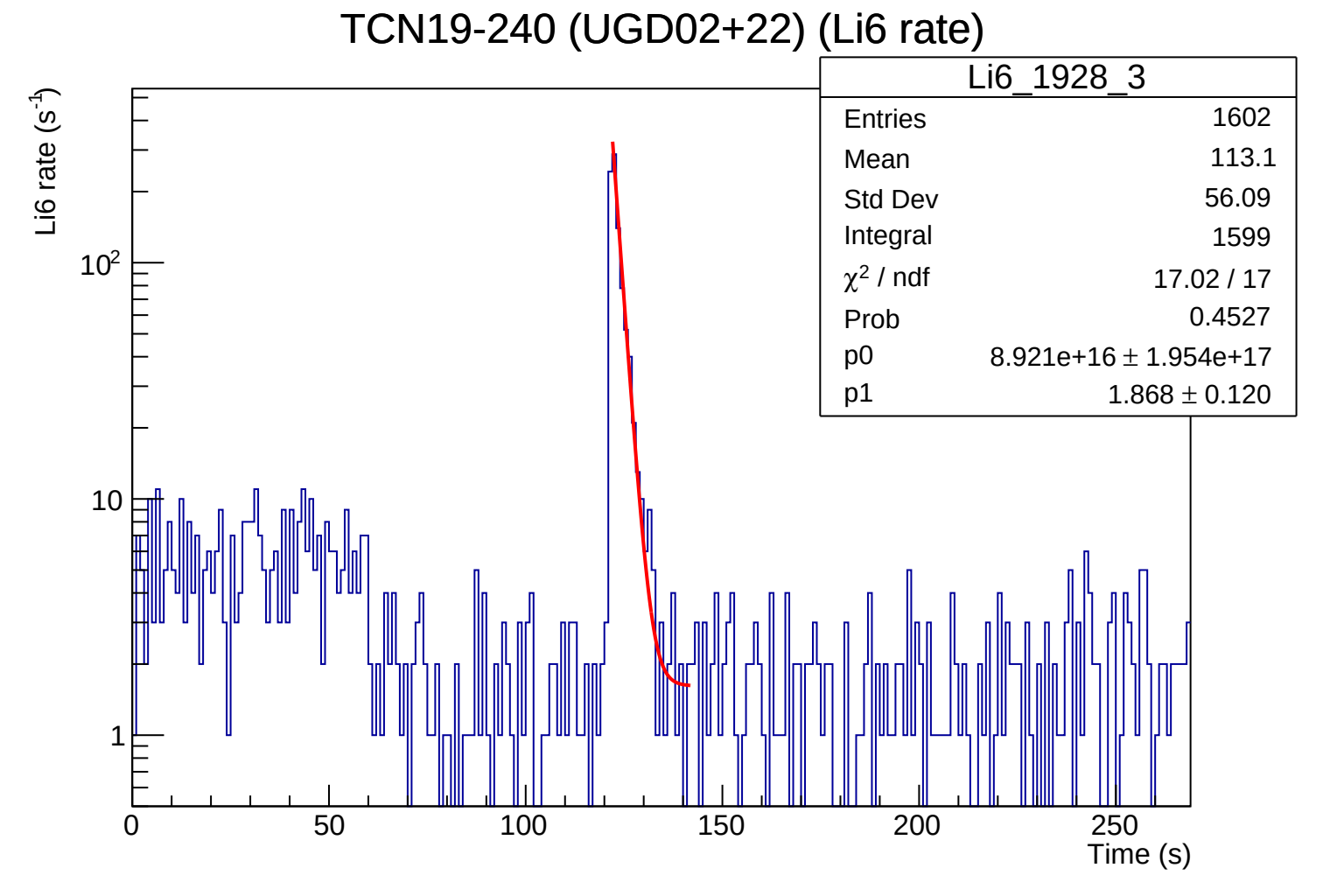

TCN19-240 (UGD02+22) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 26.3 / 21
Prob 0.1951
N1 0.2394 ± 0.04594
τ1 24.76 ± 2.697
N2 0.4601± 0.04616
τ2 47.56 ± 1.873
UCN-count-to-monitor ratio
10⁻¹
0
20
40
60
80
100
Storage time (s)

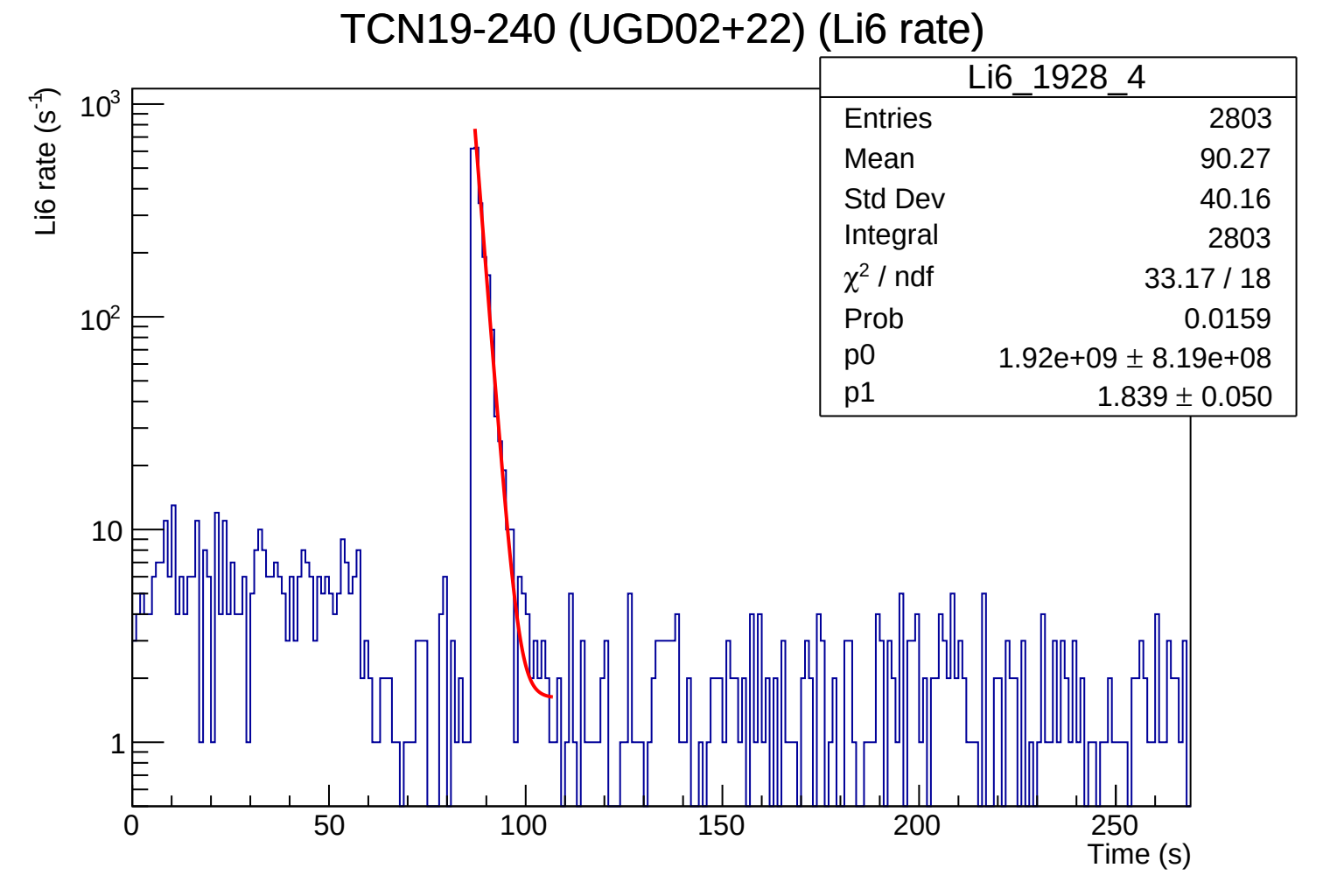

Graph
Vapor pressure (torr)
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08
Temperature (K)
0.995
0.99
0.985
0.98
0.975
0.97
0.965
0.96
0
5
10
15
20
25
Cycle

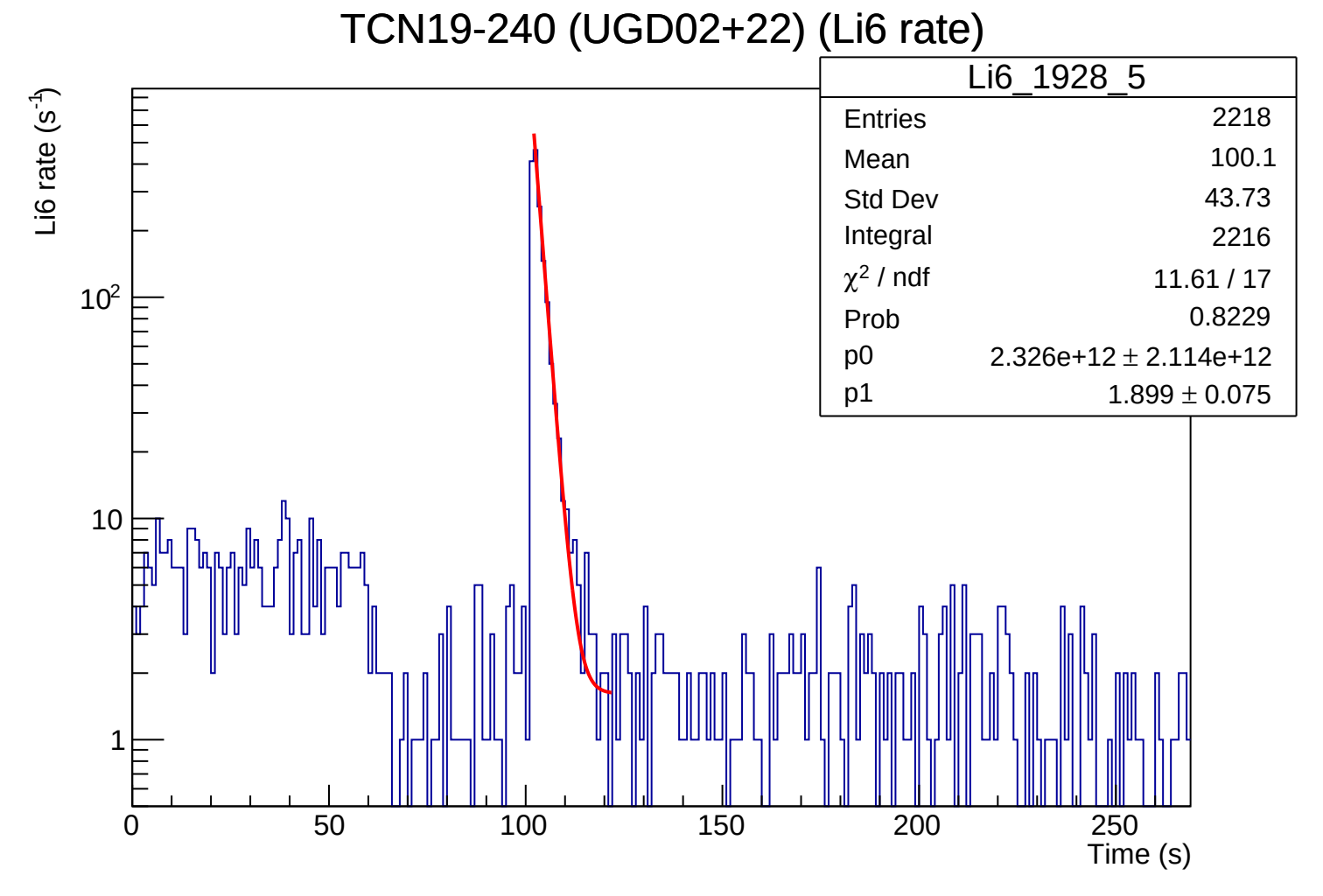

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_0
Entries 4727
Mean 69.52
Std Dev 33.68
Integral 4726
χ² / ndf 35.88 / 18
Prob 0.007306
p0 1.435e+04 ± 1.111e+03
p1 1.788 ± 0.041
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

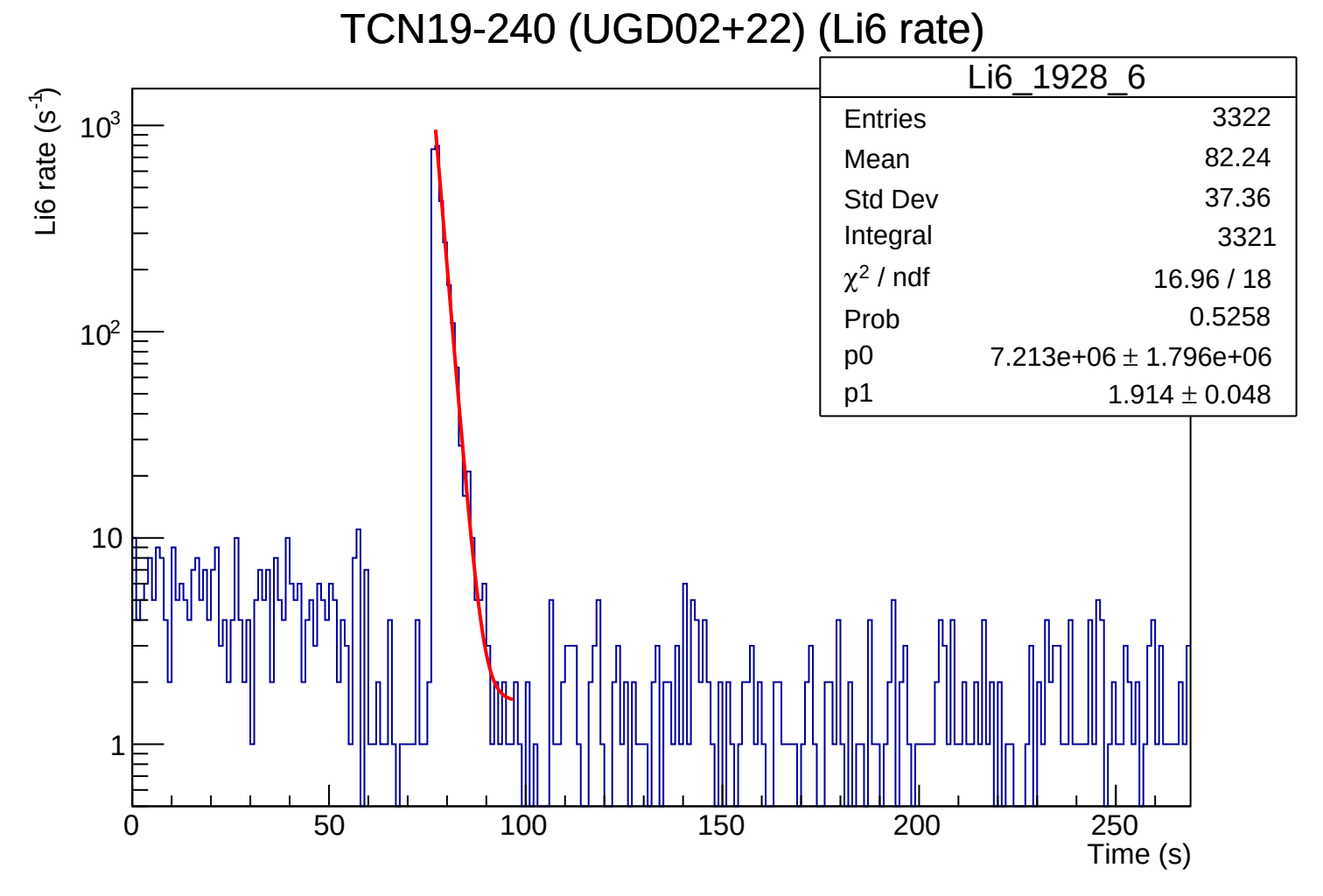

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_1
Entries 1069
Mean 118.7
Std Dev 73.48
Integral 1066
χ² / ndf 16.75 / 15
Prob 0.3339
p0 1.982e+23 ± 1.265e+23
p1 2.091± 0.029
Li6 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

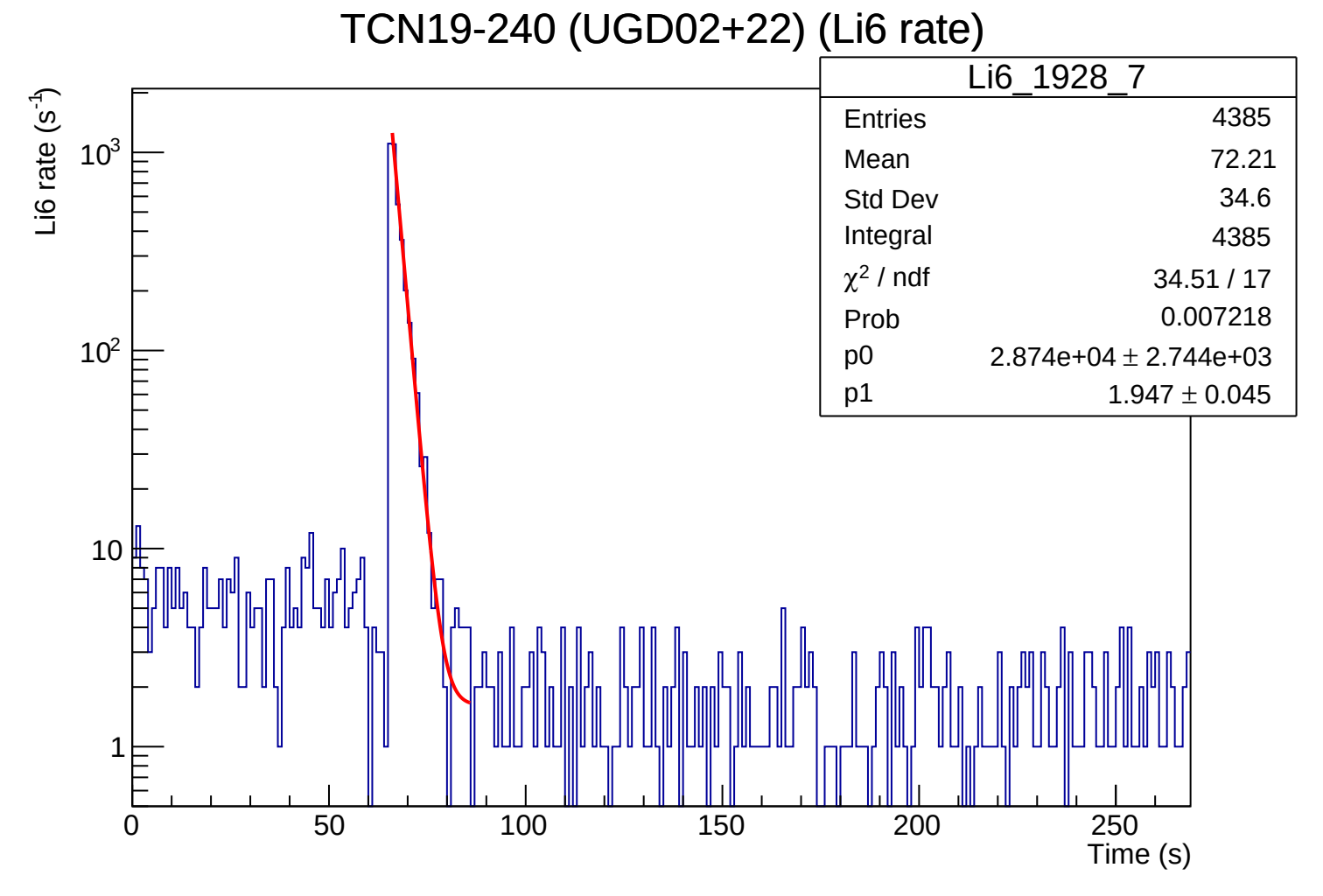

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_2
Entries 4058
Mean 76.22
Std Dev 36.23
Integral 4057
χ² / ndf 32.24 / 17
Prob 0.01403
p0 2.105e+05 ± 3.124e+04
p1 1.937 ± 0.046
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

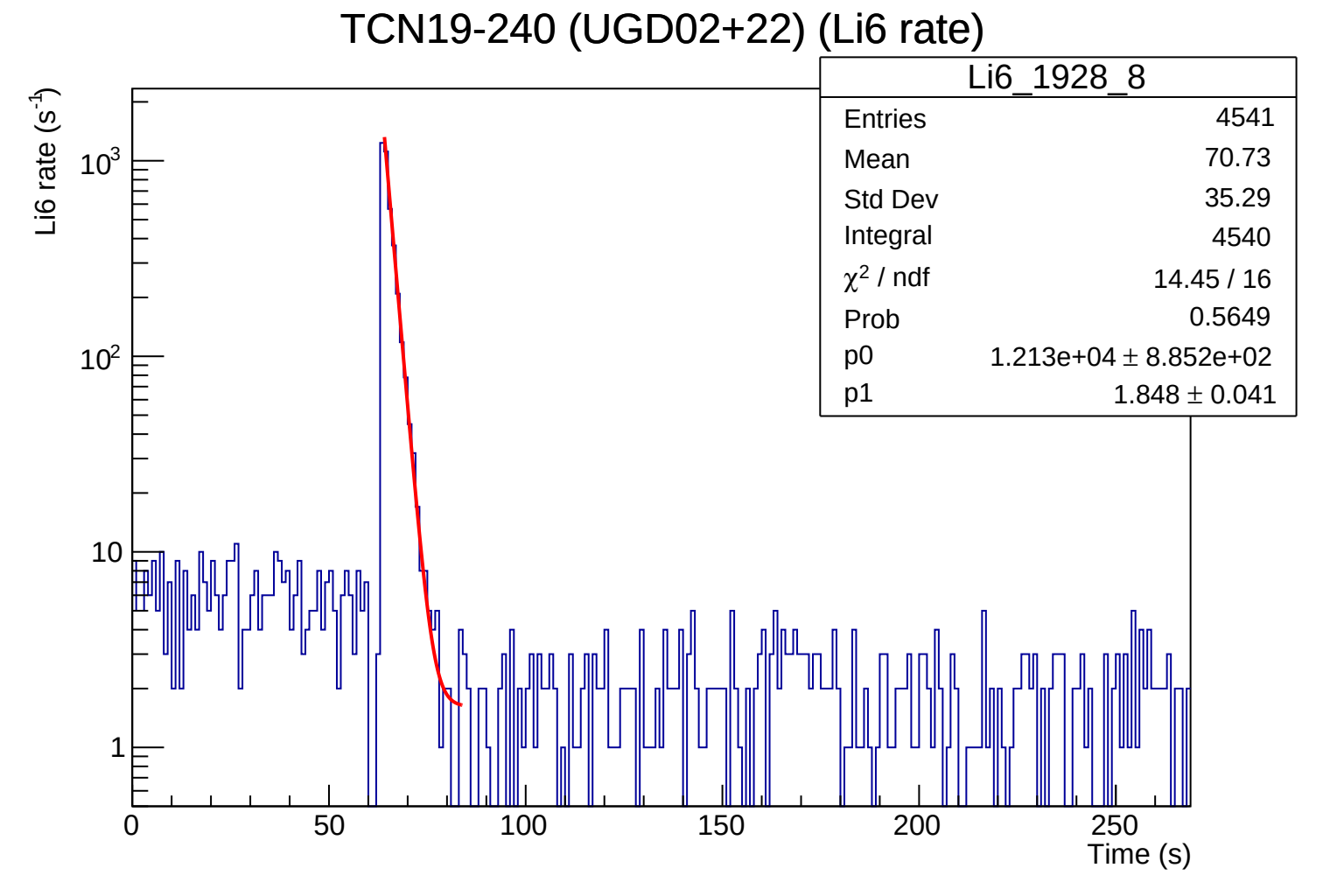

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_3
Entries 1602
Mean 113.1
Std Dev 56.09
Integral 1599
χ² / ndf 17.02 / 17
Prob 0.4527
p0 8.921e+16 ± 1.954e+17
p1 1.868 ± 0.120
Li6 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

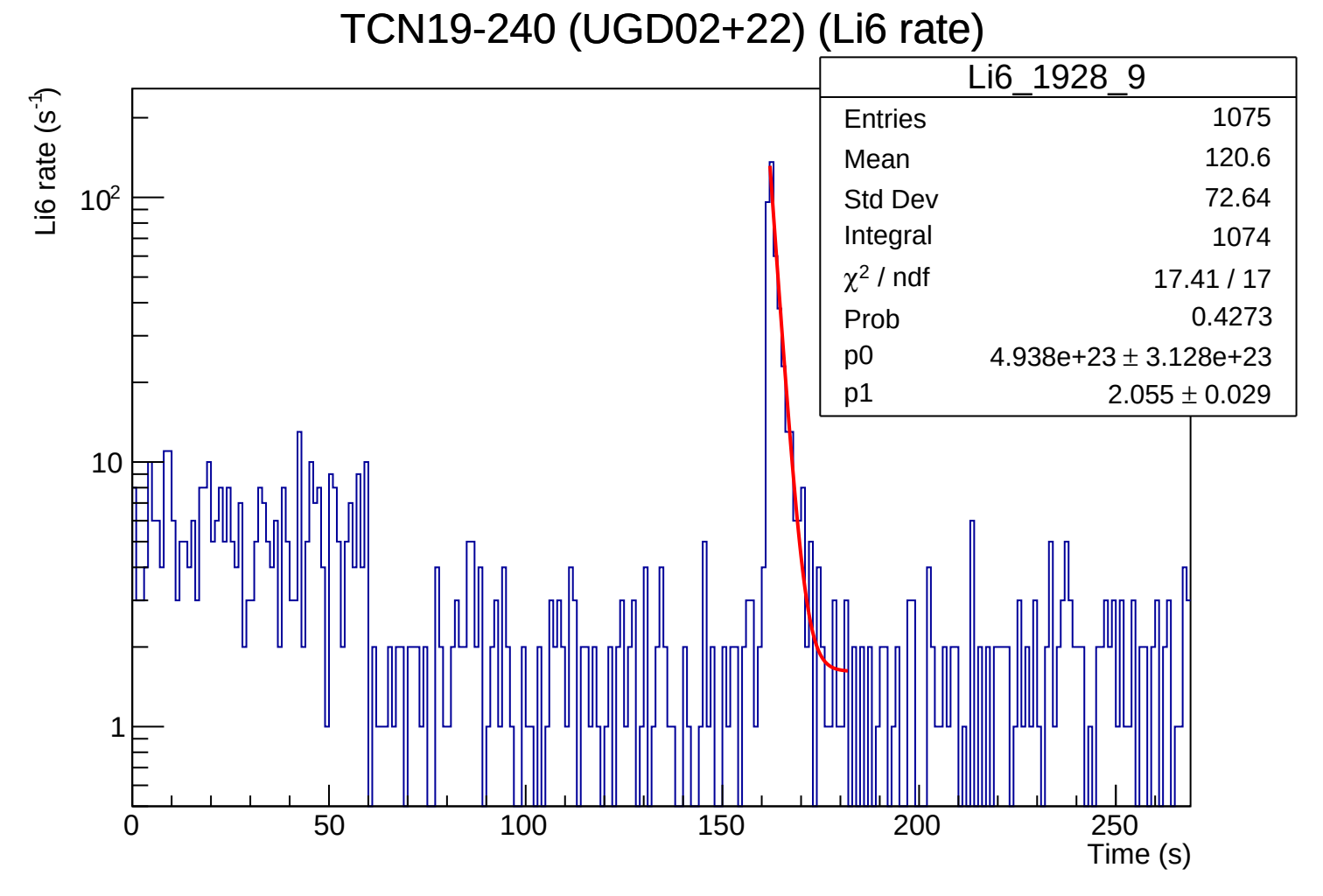

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_4
Entries 2803
Mean 90.27
Std Dev 40.16
Integral 2803
χ² / ndf 33.17 / 18
Prob 0.0159
p0 1.92e+09 ± 8.19e+08
p1 1.839 ± 0.050
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

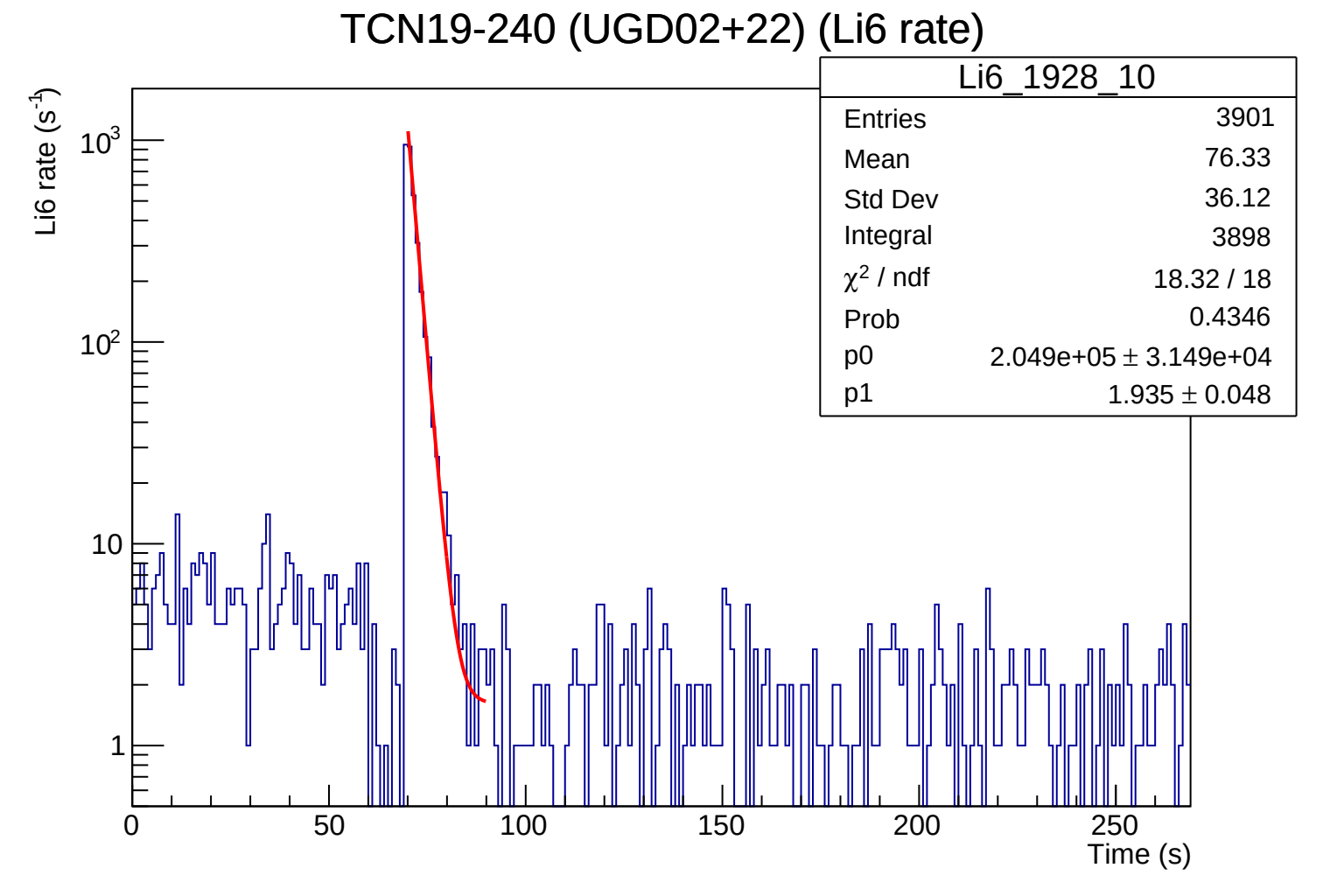

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_5
Entries 2218
Mean 100.1
Std Dev 43.73
Integral 2216
χ² / ndf 11.61 / 17
Prob 0.8229
p0 2.326e+12 ± 2.114e+12
p1 1.899 ± 0.075
Li6 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

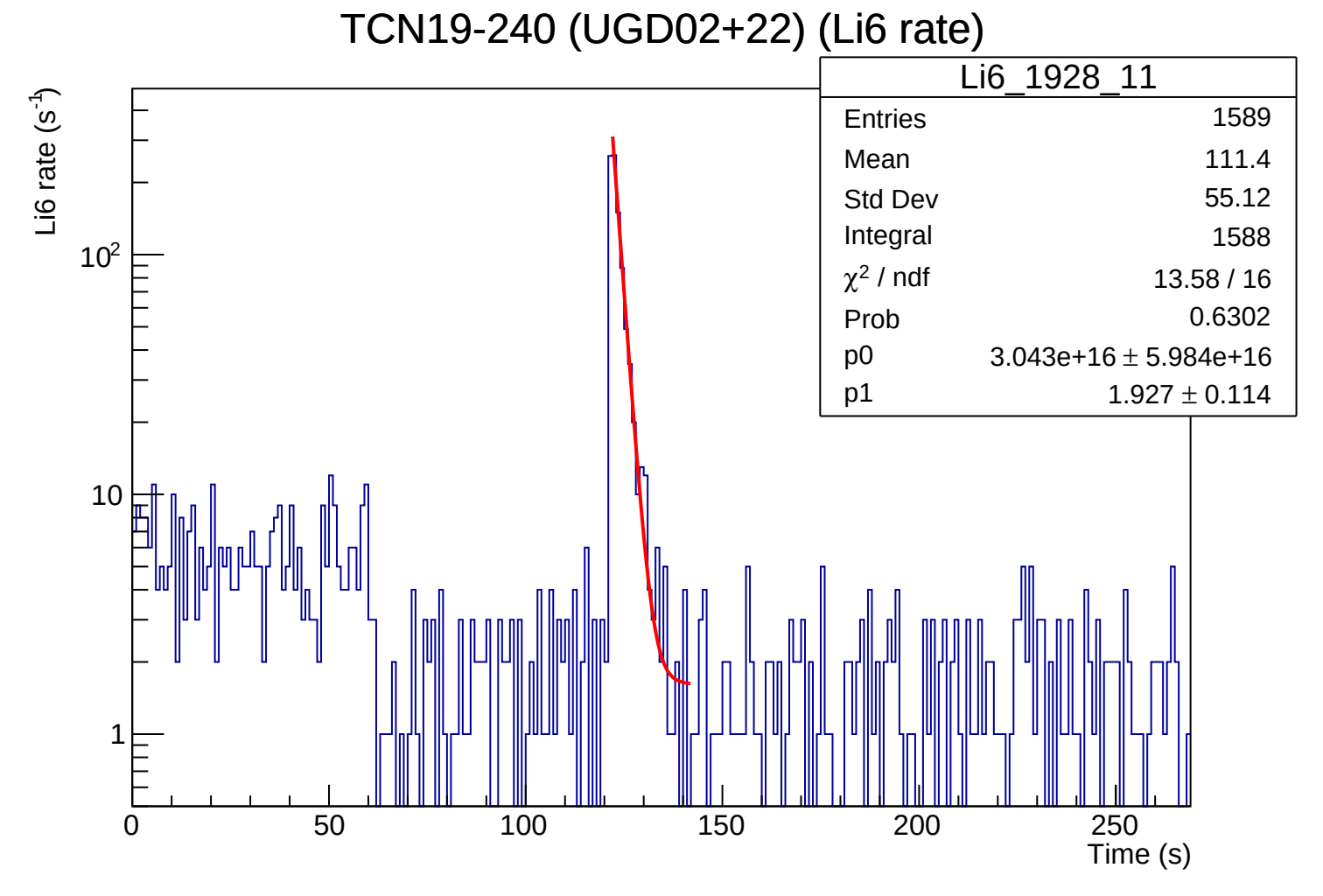

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_6
Entries 3322
Mean 82.24
Std Dev 37.36
Integral 3321
χ² / ndf 16.96 / 18
Prob 0.5258
p0 7.213e+06 ± 1.796e+06
p1 1.914 ± 0.048
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

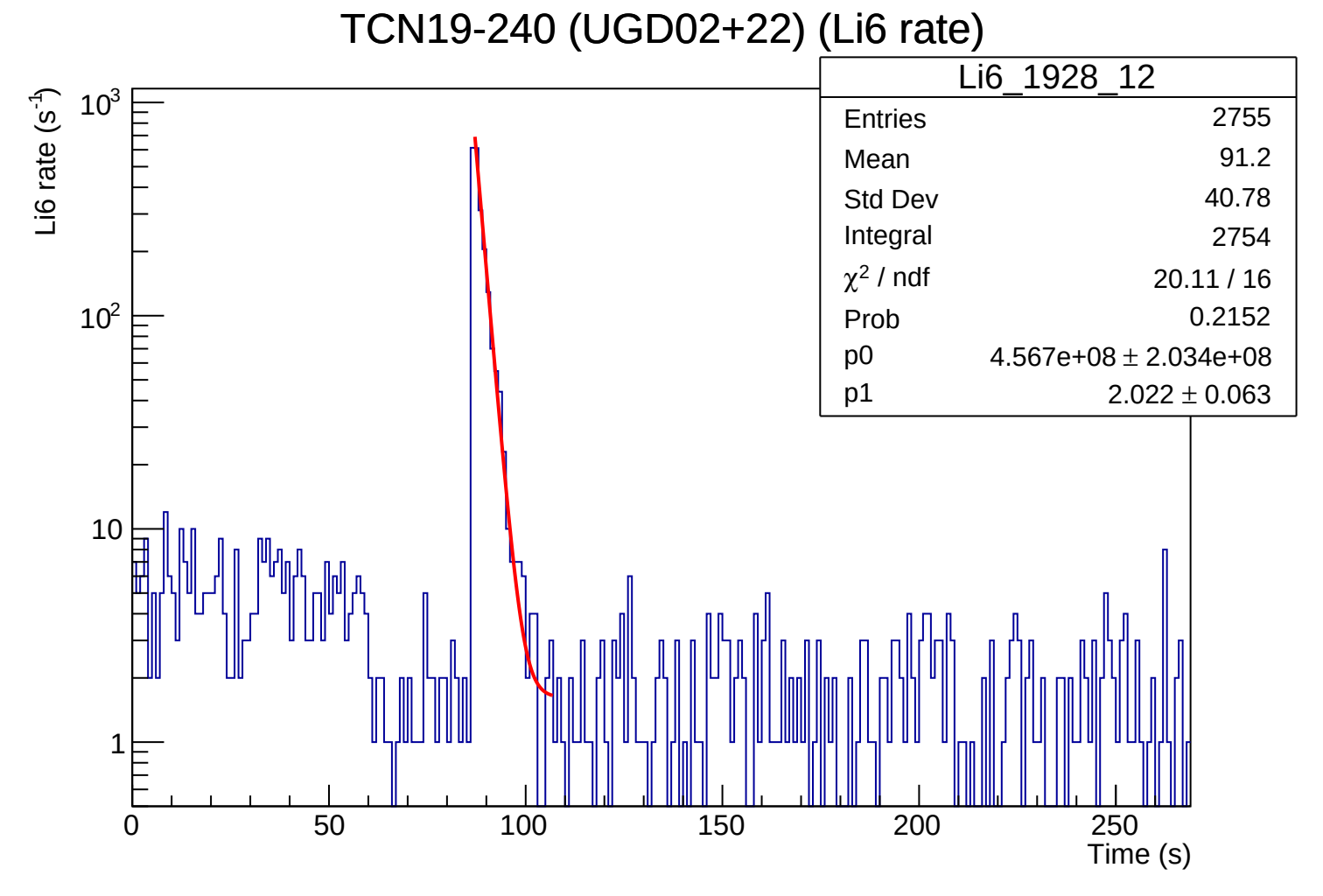

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_7
Entries 4385
Mean 72.21
Std Dev 34.6
Integral 4385
χ2 / ndf 34.51 / 17
Prob 0.007218
p0 2.874e+04 ± 2.744e+03
p1 1.947 ± 0.045
Li6 rate (s-1)
10^3
10^2
10
1
0
50
100
150
200
250
Time (s)

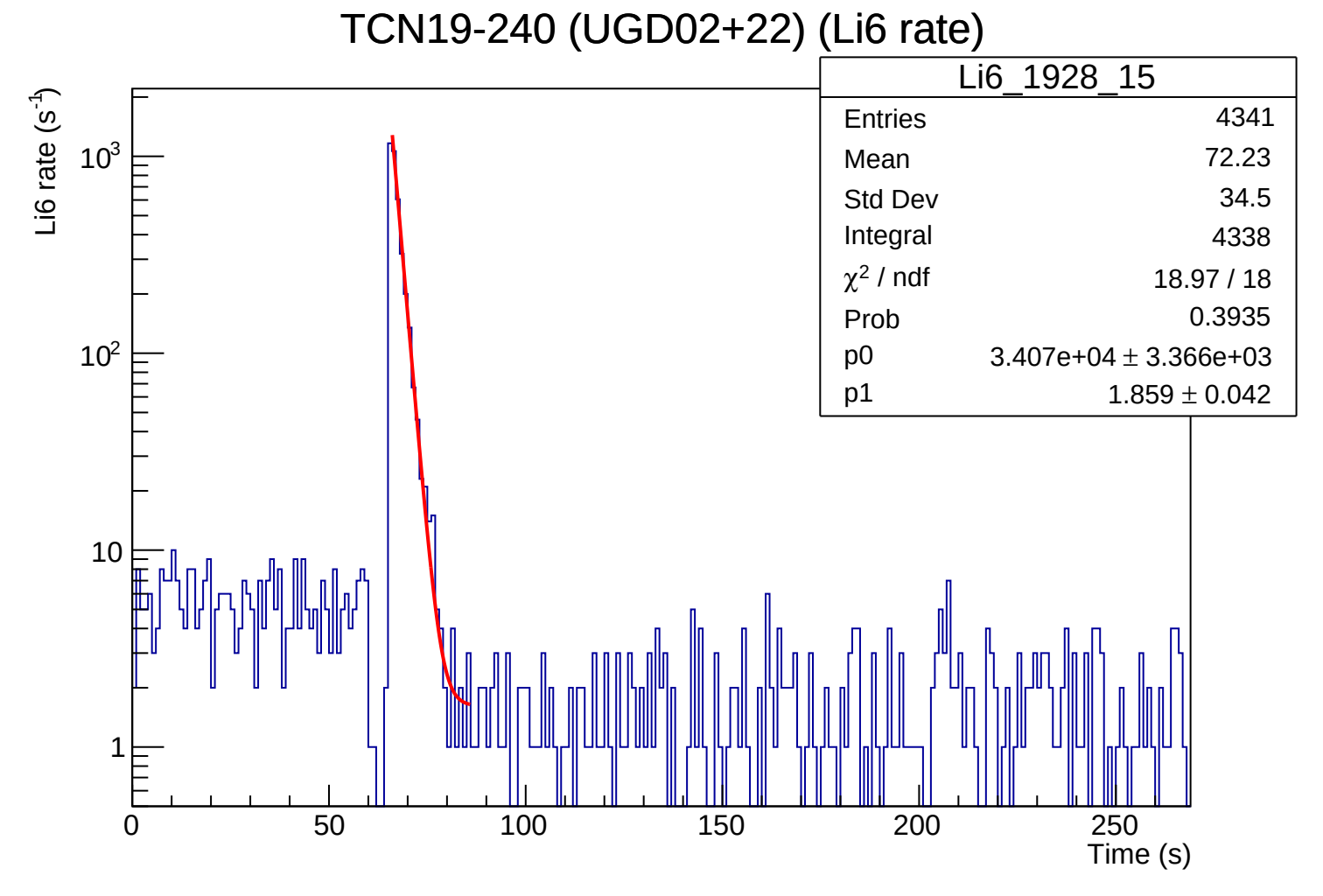

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_8
Entries 4541
Mean 70.73
Std Dev 35.29
Integral 4540
χ² / ndf 14.45 / 16
Prob 0.5649
p0 1.213e+04 ± 8.852e+02
p1 1.848 ± 0.041
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

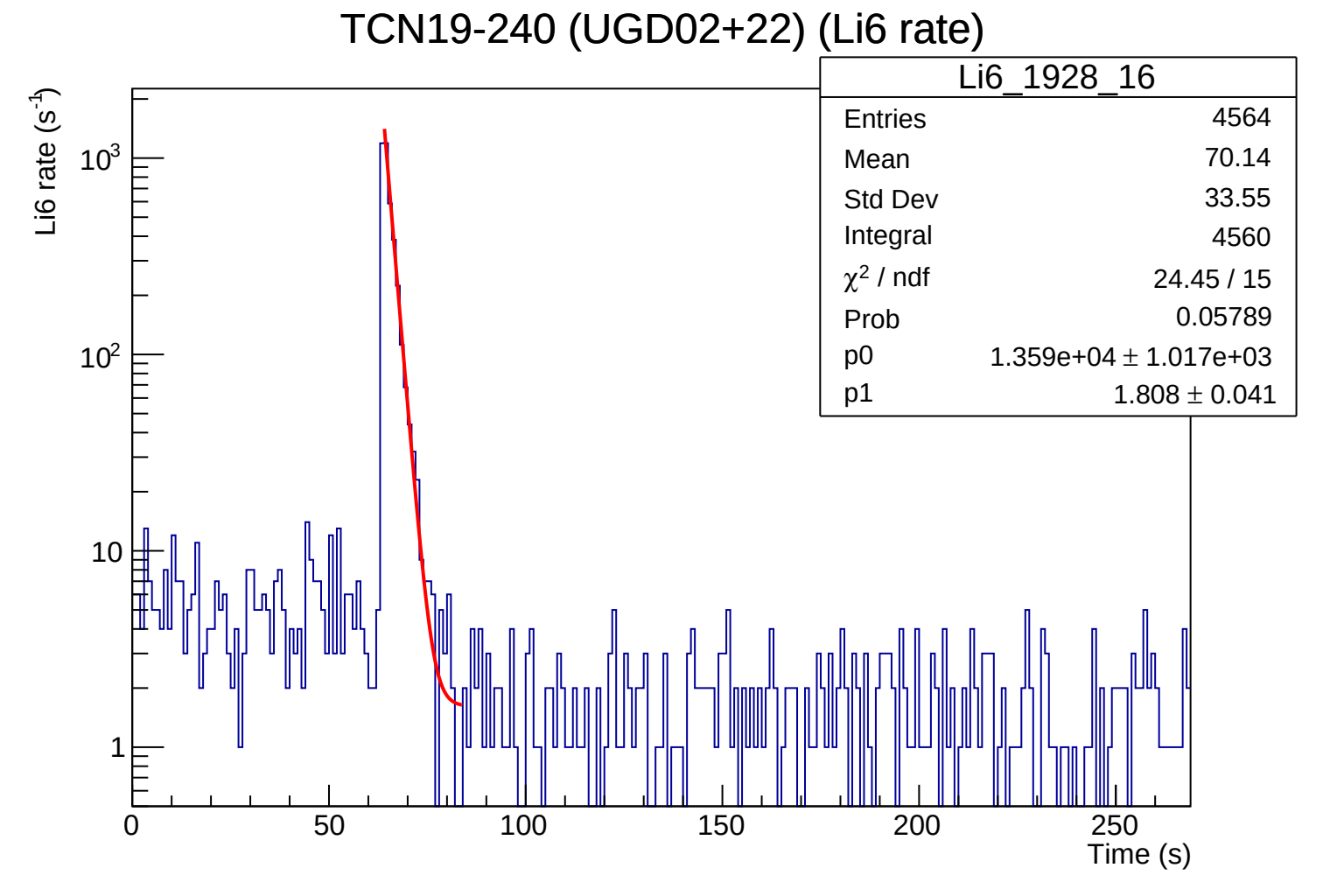

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_9
Entries 1075
Mean 120.6
Std Dev 72.64
Integral 1074
χ² / ndf 17.41 / 17
Prob 0.4273
p0 4.938e+23 ± 3.128e+23
p1 2.055 ± 0.029
Li6 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

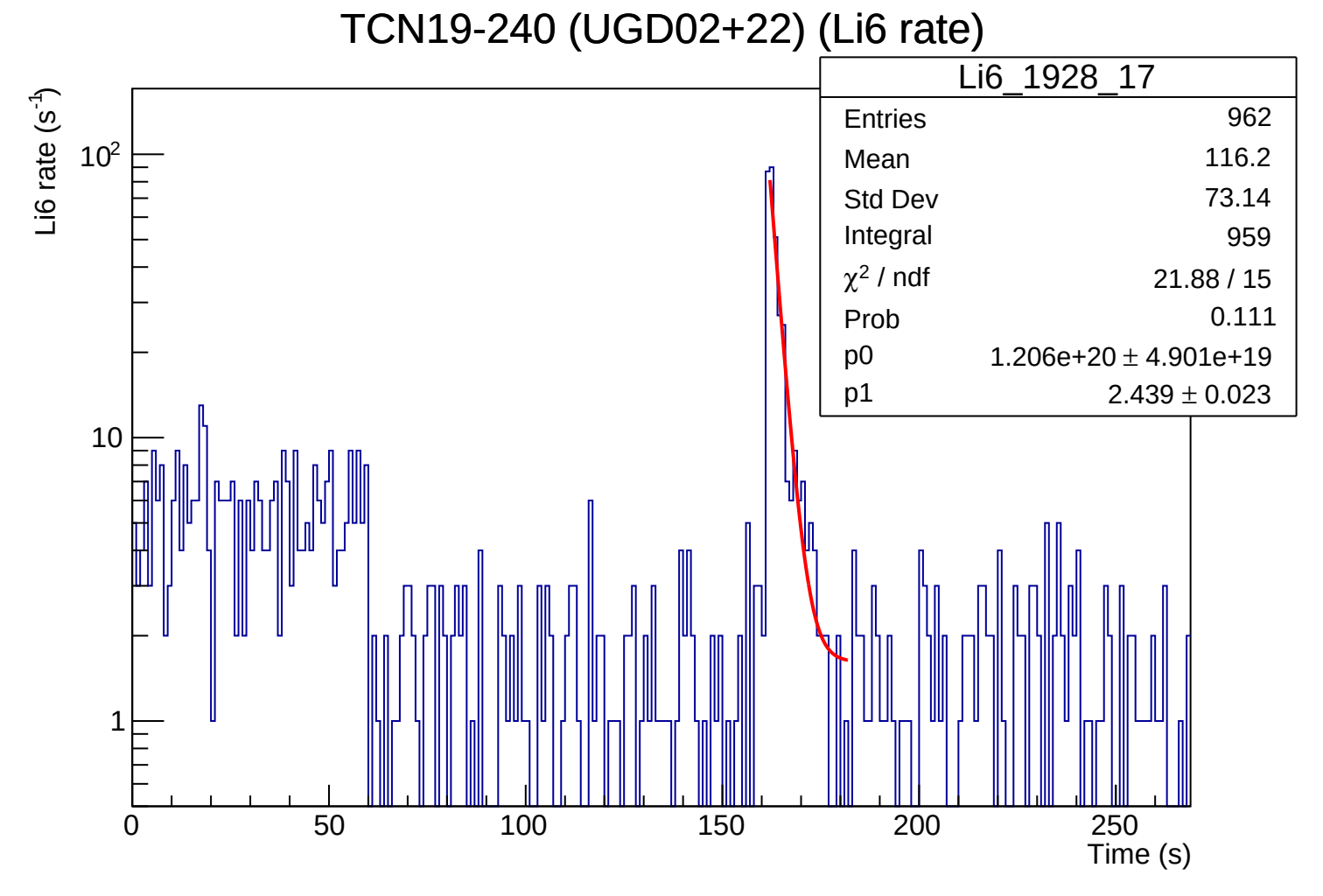

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_10
Entries 3901
Mean 76.33
Std Dev 36.12
Integral 3898
χ² / ndf 18.32 / 18
Prob 0.4346
p0 2.049e+05 ± 3.149e+04
p1 1.935 ± 0.048
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

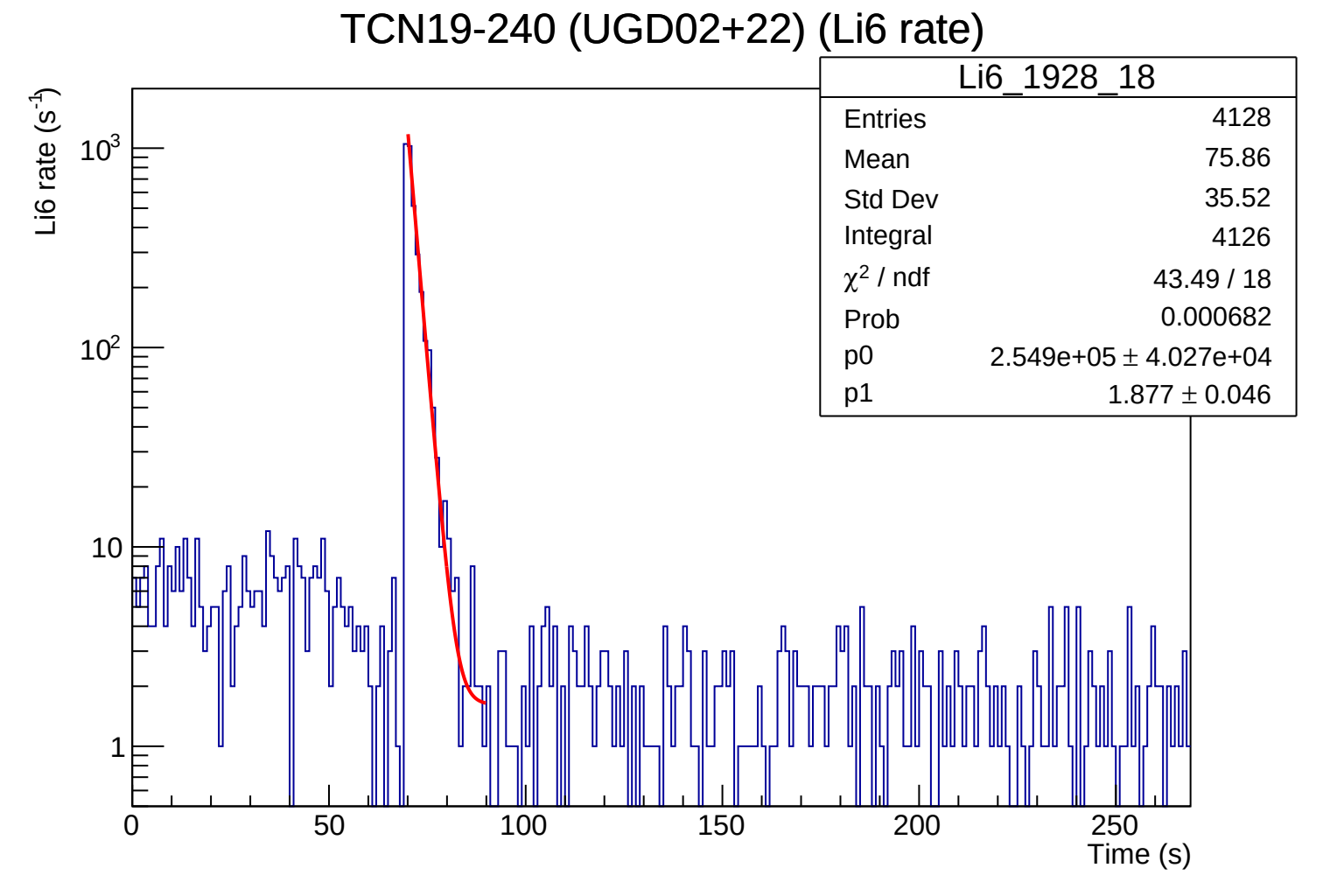

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_11
Entries 1589
Mean 111.4
Std Dev 55.12
Integral 1588
χ2 / ndf 13.58 / 16
Prob 0.6302
p0 3.043e+16 ± 5.984e+16
p1 1.927 ± 0.114
Li6 rate (s-1)
10^2
10
1
0
50
100
150
200
250
Time (s)

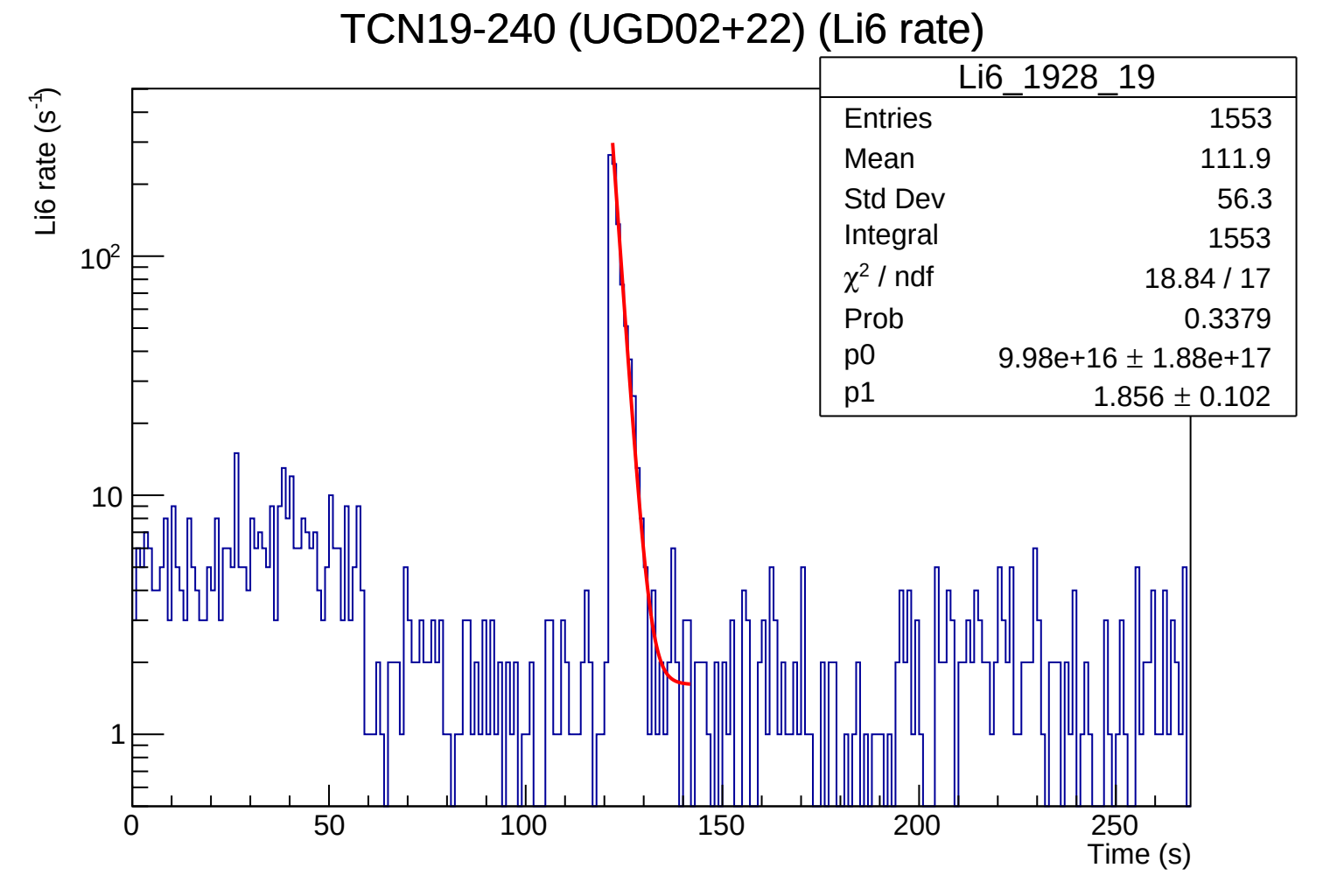

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_12
Entries 2755
Mean 91.2
Std Dev 40.78
Integral 2754
χ² / ndf 20.11 / 16
Prob 0.2152
p0 4.567e+08 ± 2.034e+08
p1 2.022 ± 0.063
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

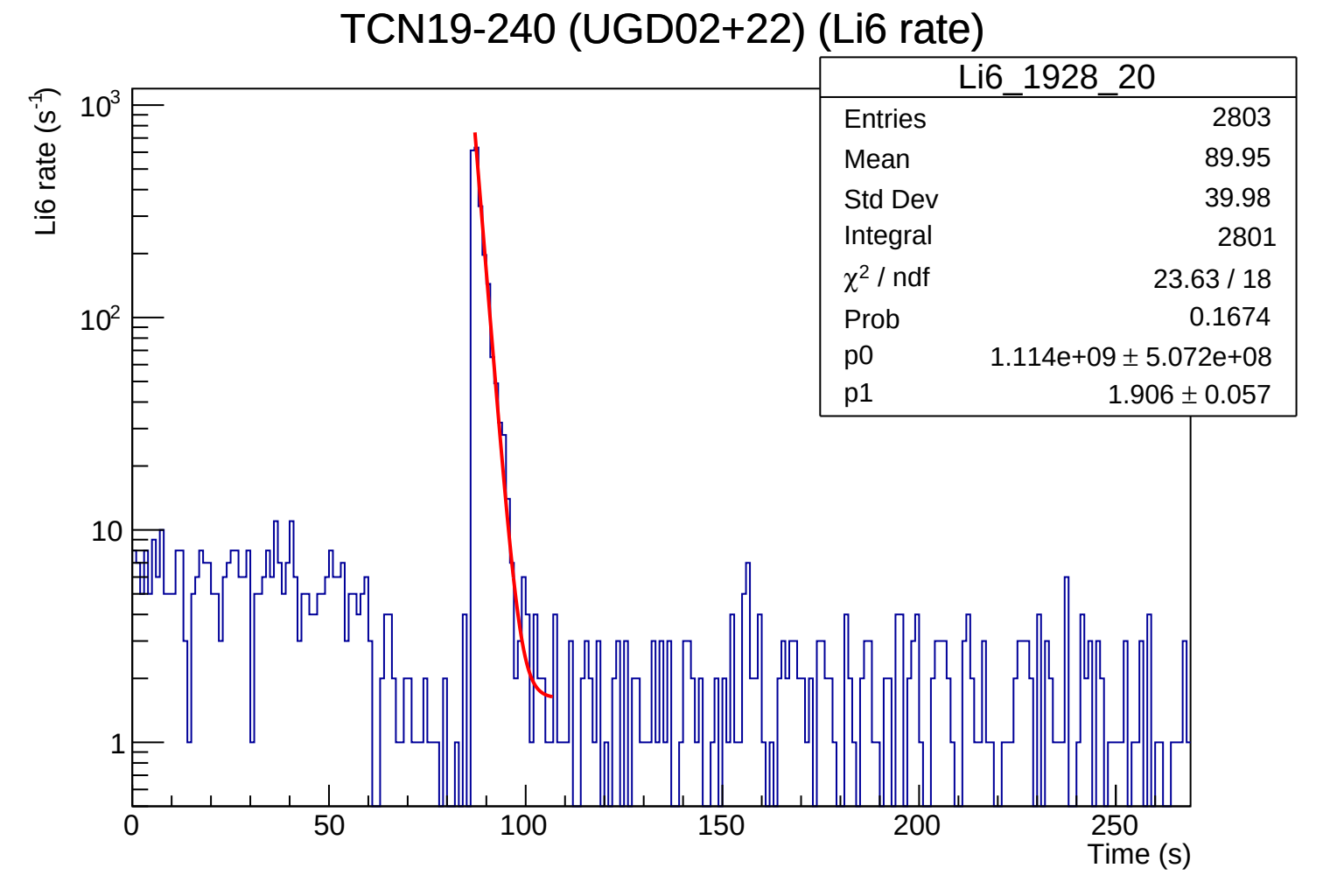

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_15
Entries 4341
Mean 72.23
Std Dev 34.5
Integral 4338
χ² / ndf 18.97 / 18
Prob 0.3935
p0 3.407e+04 ± 3.366e+03
p1 1.859 ± 0.042
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

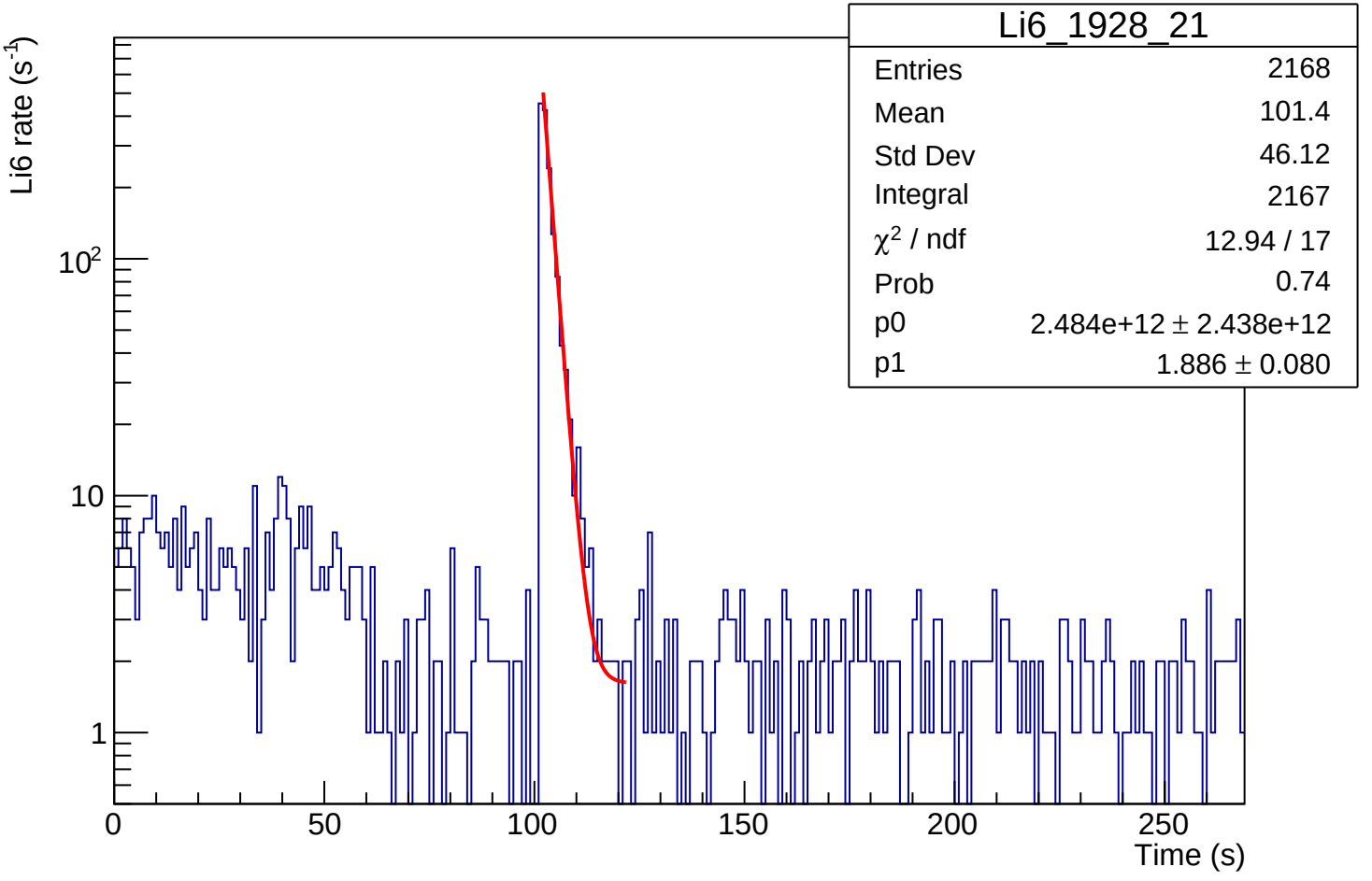

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_16
Entries 4564
Mean 70.14
Std Dev 33.55
Integral 4560
χ² / ndf 24.45 / 15
Prob 0.05789
p0 1.359e+04 ± 1.017e+03
p1 1.808 ± 0.041
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

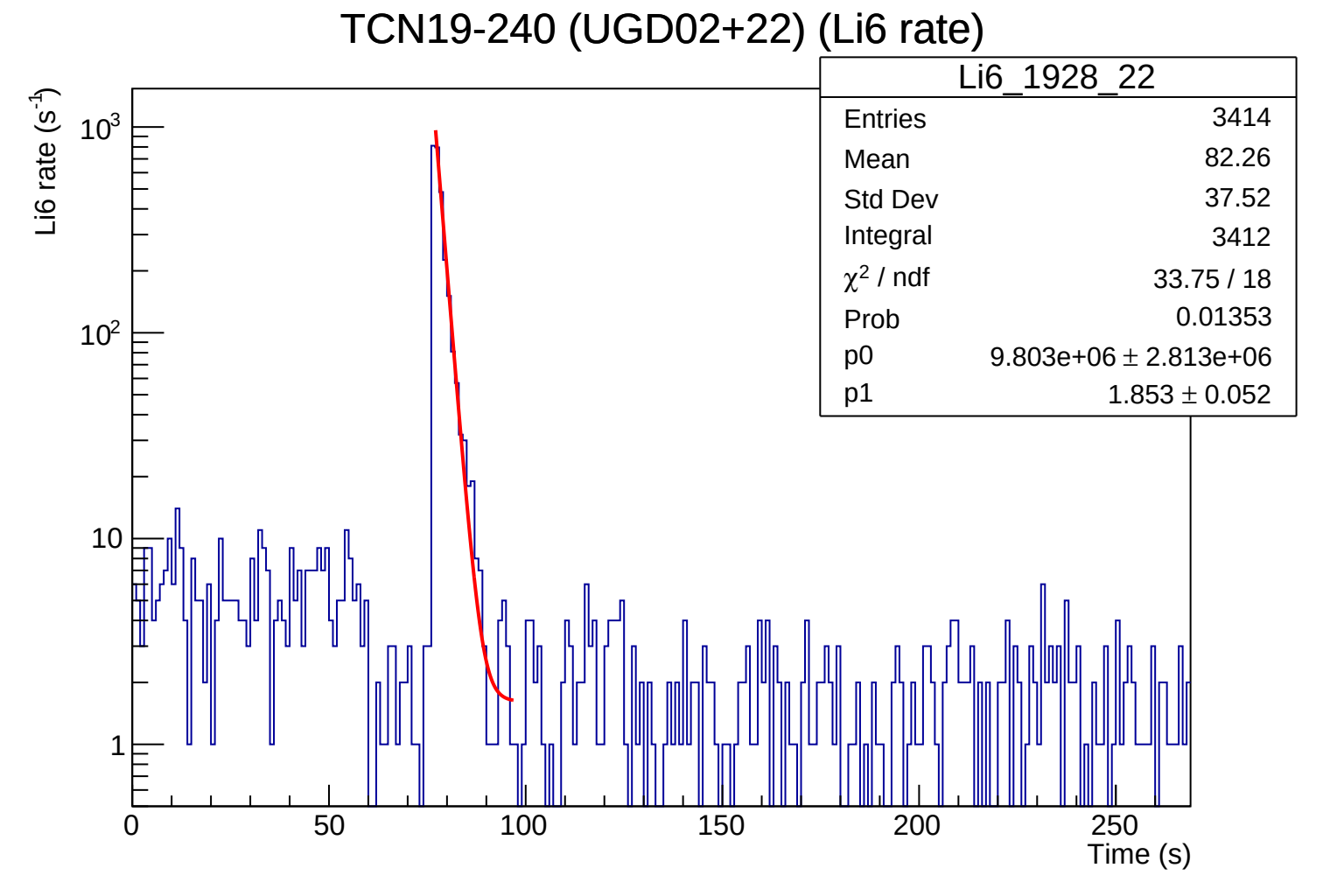

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_17
Entries 962
Mean 116.2
Std Dev 73.14
Integral 959
χ² / ndf 21.88 / 15
Prob 0.111
p0 1.206e+20 ± 4.901e+19
p1 2.439 ± 0.023
Li6 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

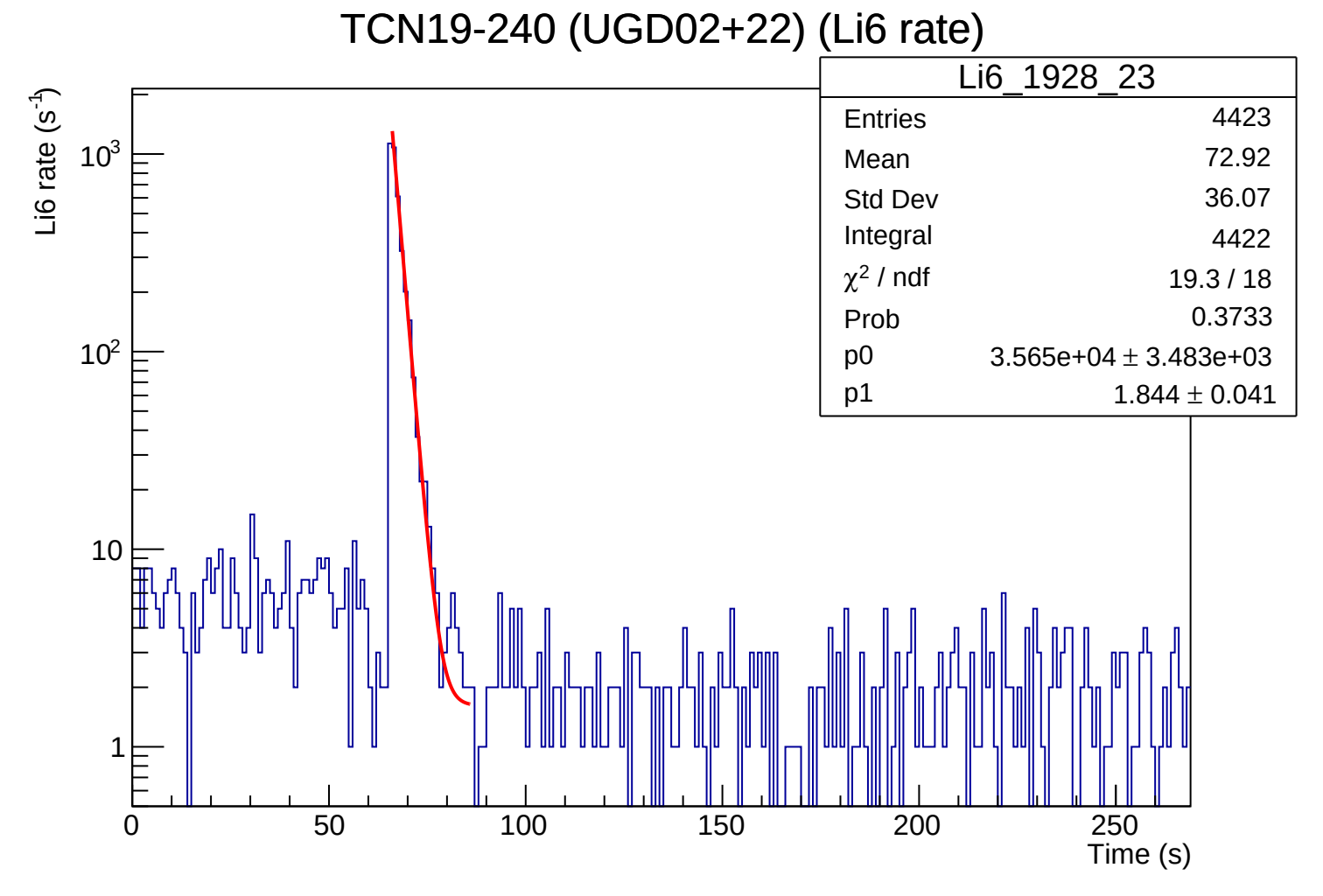

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_18
Entries 4128
Mean 75.86
Std Dev 35.52
Integral 4126
χ2 / ndf 43.49 / 18
Prob 0.000682
p0 2.549e+05 ± 4.027e+04
p1 1.877 ± 0.046
Li6 rate (s-1)
10^3
10^2
10
1
0
50
100
150
200
250
Time (s)

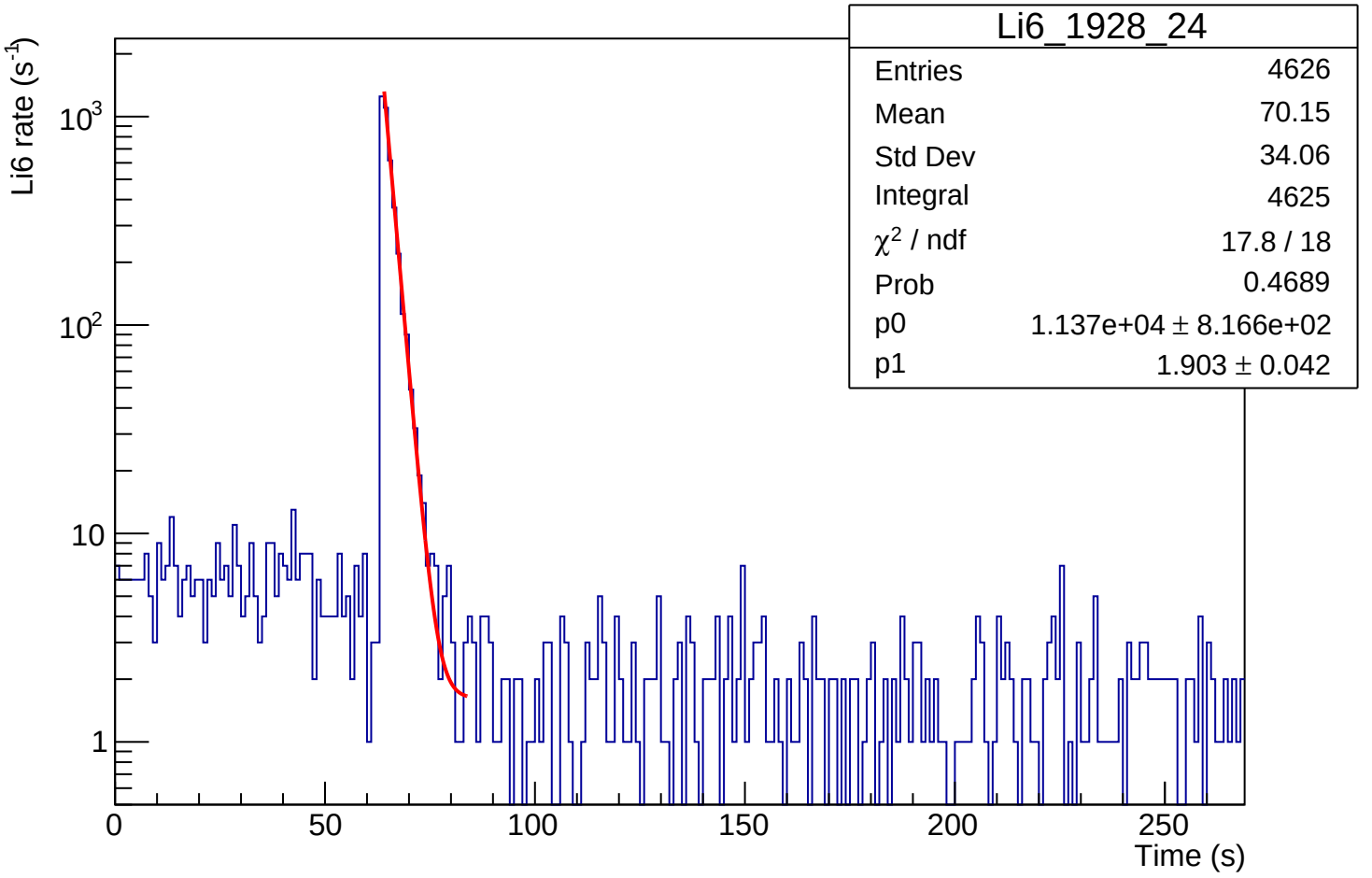

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_19
Entries 1553
Mean 111.9
Std Dev 56.3
Integral 1553
χ² / ndf 18.84 / 17
Prob 0.3379
p0 9.98e+16 ± 1.88e+17
p1 1.856 ± 0.102
Li6 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

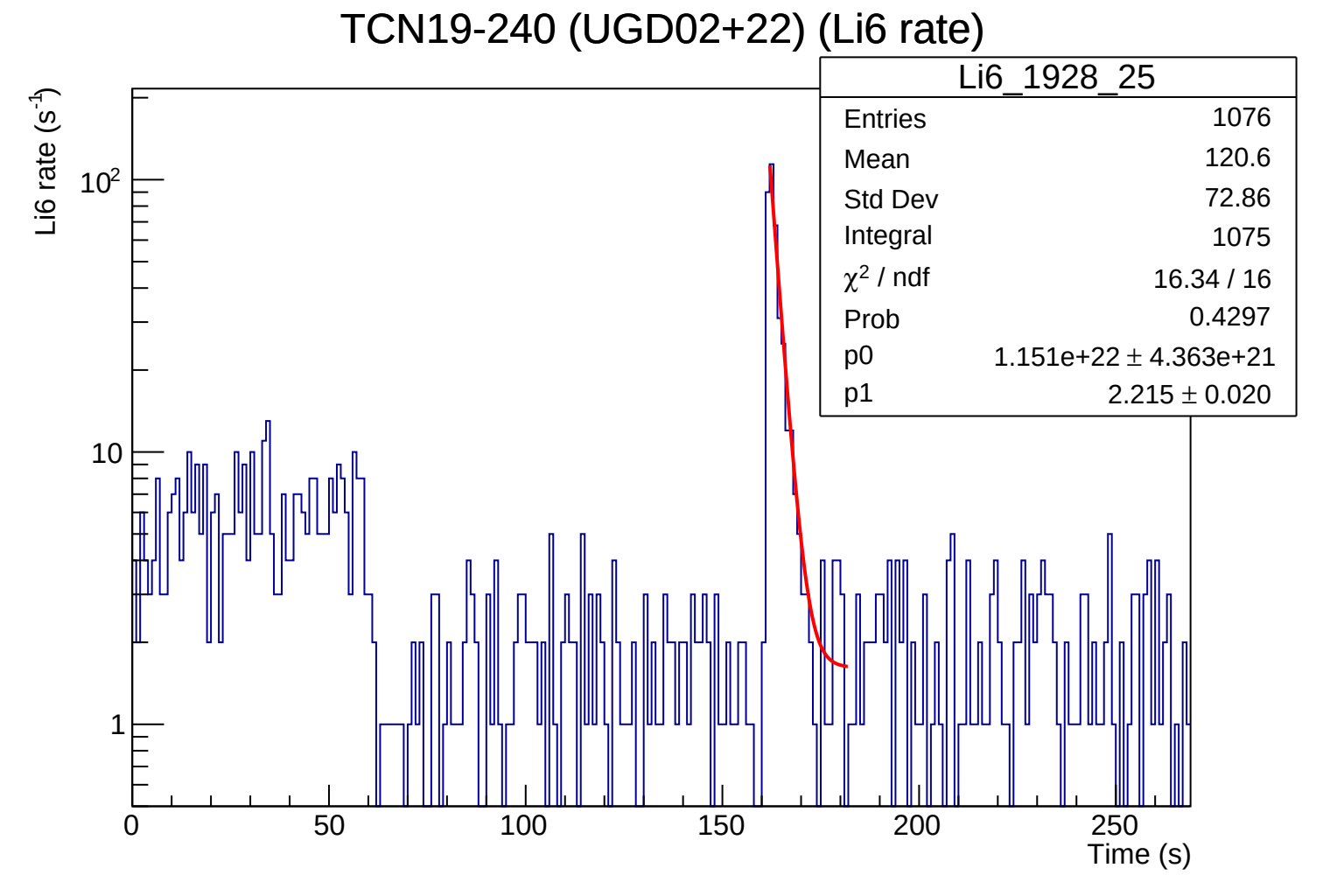

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_20
Entries 2803
Mean 89.95
Std Dev 39.98
Integral 2801
χ² / ndf 23.63 / 18
Prob 0.1674
p0 1.114e+09 ± 5.072e+08
p1 1.906 ± 0.057
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

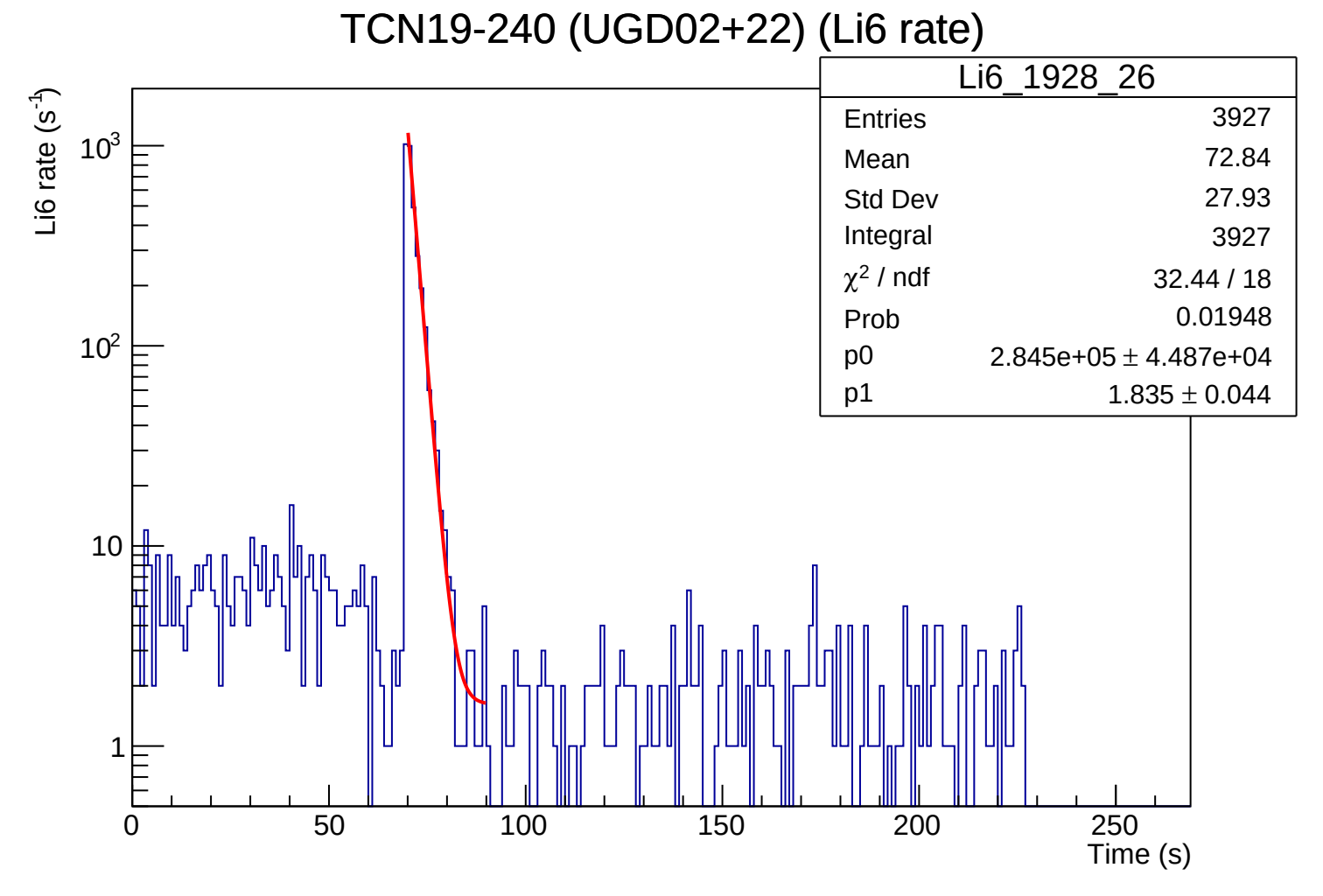

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_21
Entries 2168
Mean 101.4
Std Dev 46.12
Integral 2167
χ² / ndf 12.94 / 17
Prob 0.74
p0 2.484e+12 ± 2.438e+12
p1 1.886 ± 0.080
Li6 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

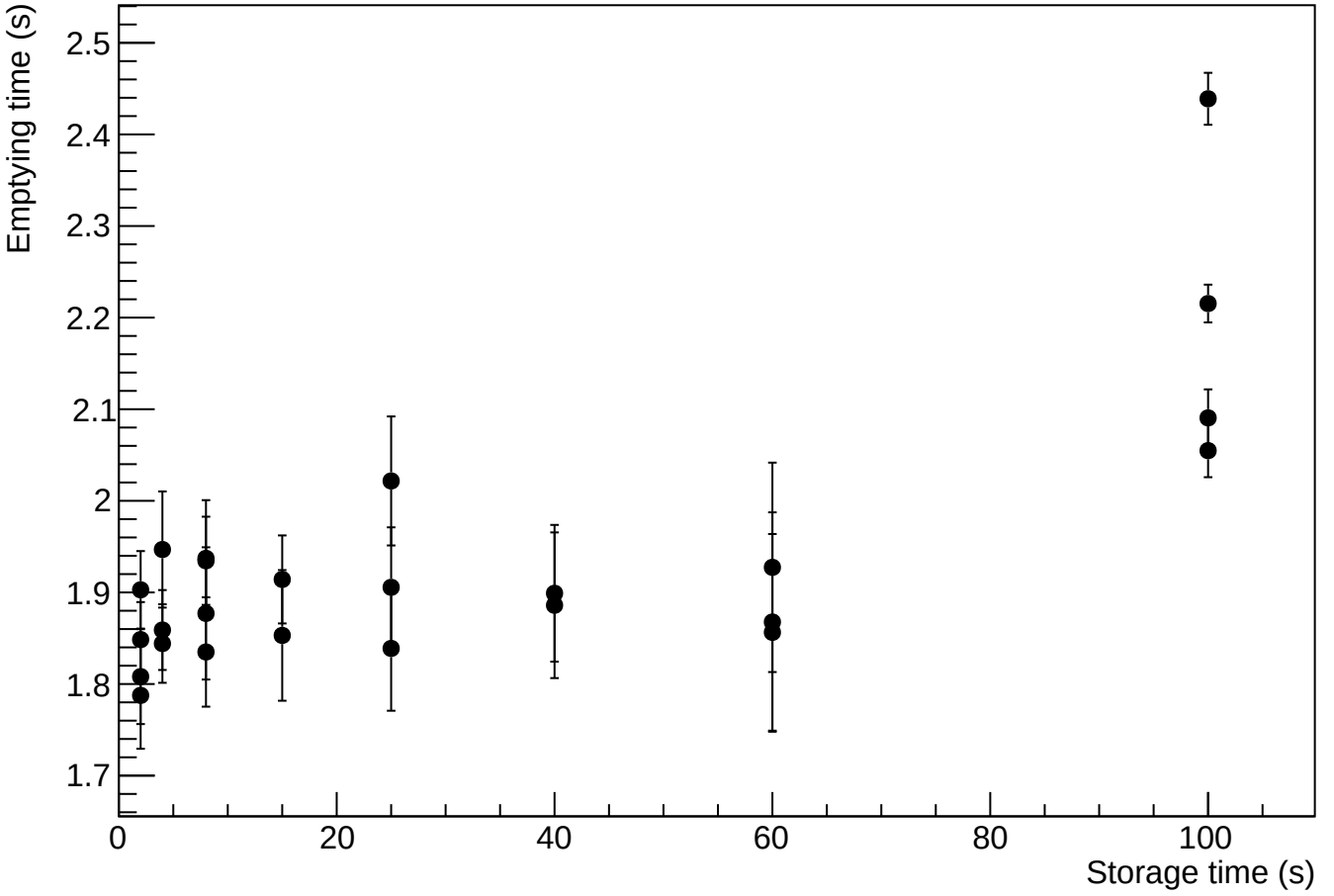

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_22
Entries 3414
Mean 82.26
Std Dev 37.52
Integral 3412
χ² / ndf 33.75 / 18
Prob 0.01353
p0 9.803e+06 ± 2.813e+06
p1 1.853 ± 0.052
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

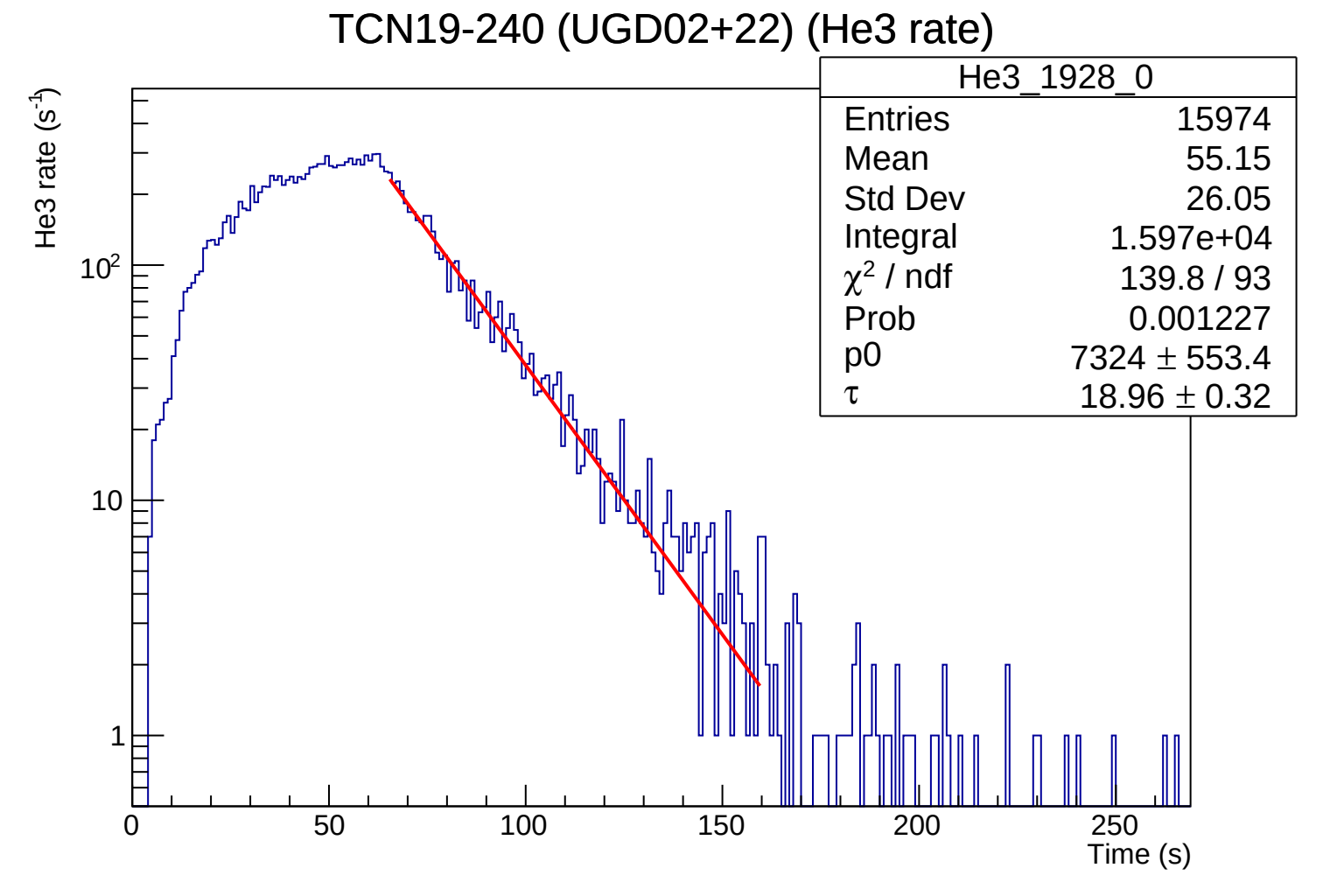

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_23
Entries 4423
Mean 72.92
Std Dev 36.07
Integral 4422
χ² / ndf 19.3 / 18
Prob 0.3733
p0 3.565e+04 ± 3.483e+03
p1 1.844 ± 0.041
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

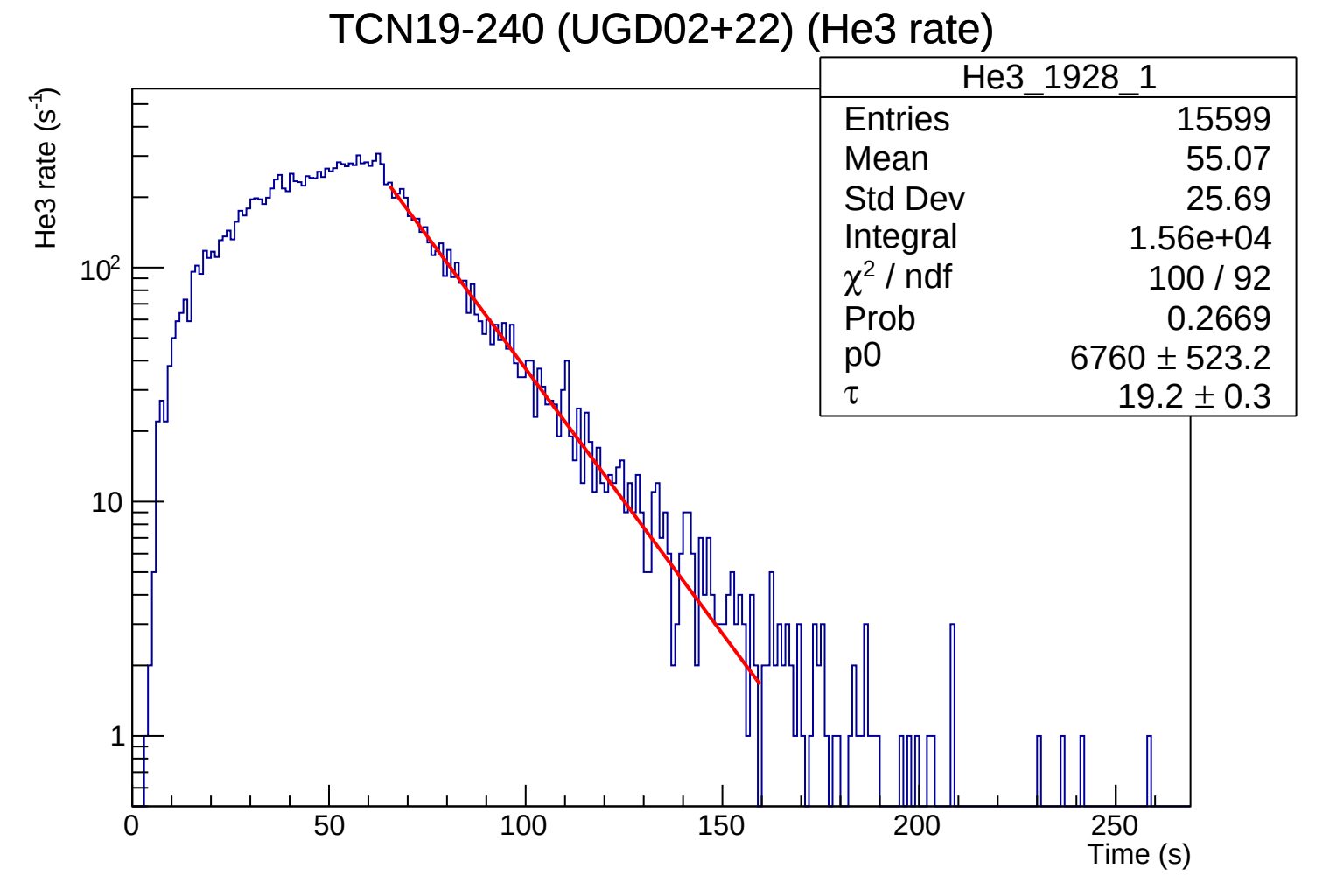

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_24
Entries 4626
Mean 70.15
Std Dev 34.06
Integral 4625
χ² / ndf 17.8 / 18
Prob 0.4689
p0 1.137e+04 ± 8.166e+02
p1 1.903 ± 0.042
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

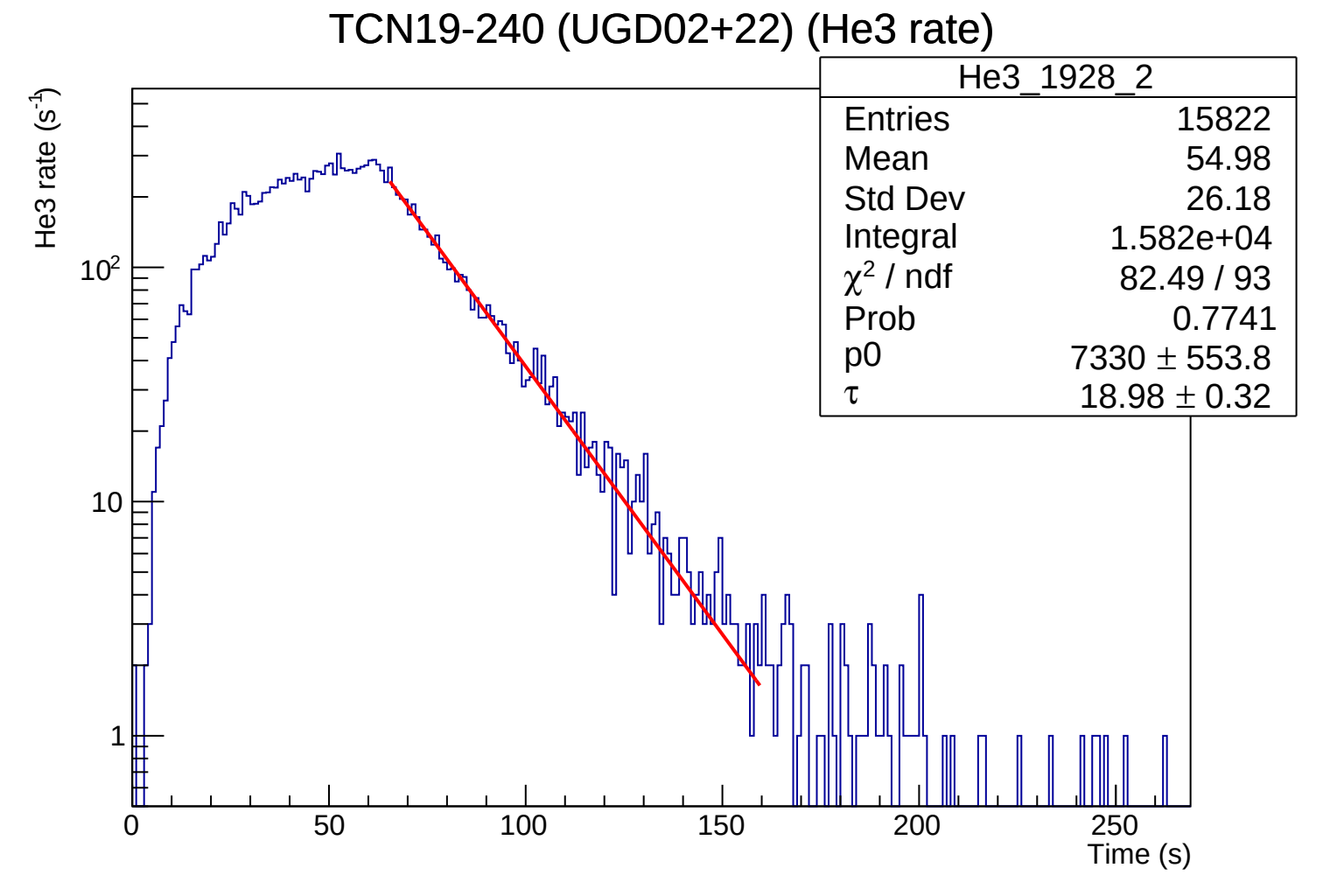

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_25
Entries 1076
Mean 120.6
Std Dev 72.86
Integral 1075
χ2 / ndf 16.34 / 16
Prob 0.4297
p0 1.151e+22 ± 4.363e+21
p1 2.215 ± 0.020
Li6 rate (s-1)
10^2
10
1
0
50
100
150
200
250
Time (s)

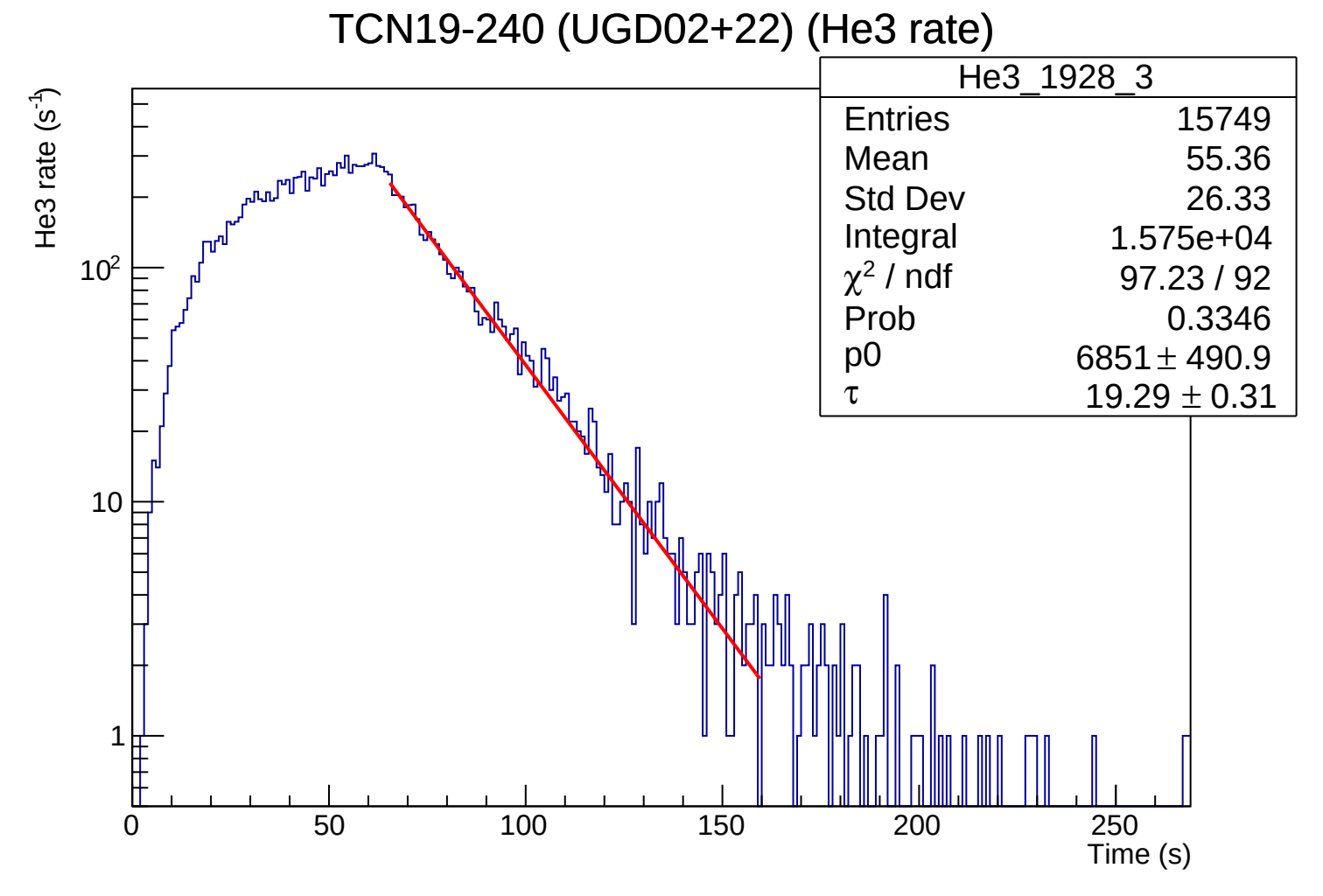

TCN19-240 (UGD02+22) (Li6 rate)
Li6_1928_26
Entries 3927
Mean 72.84
Std Dev 27.93
Integral 3927
χ² / ndf 32.44 / 18
Prob 0.01948
p0 2.845e+05 ± 4.487e+04
p1 1.835 ± 0.044
Li6 rate (s⁻¹)
10³
10²
10
1
0
50
100
150
200
250
Time (s)

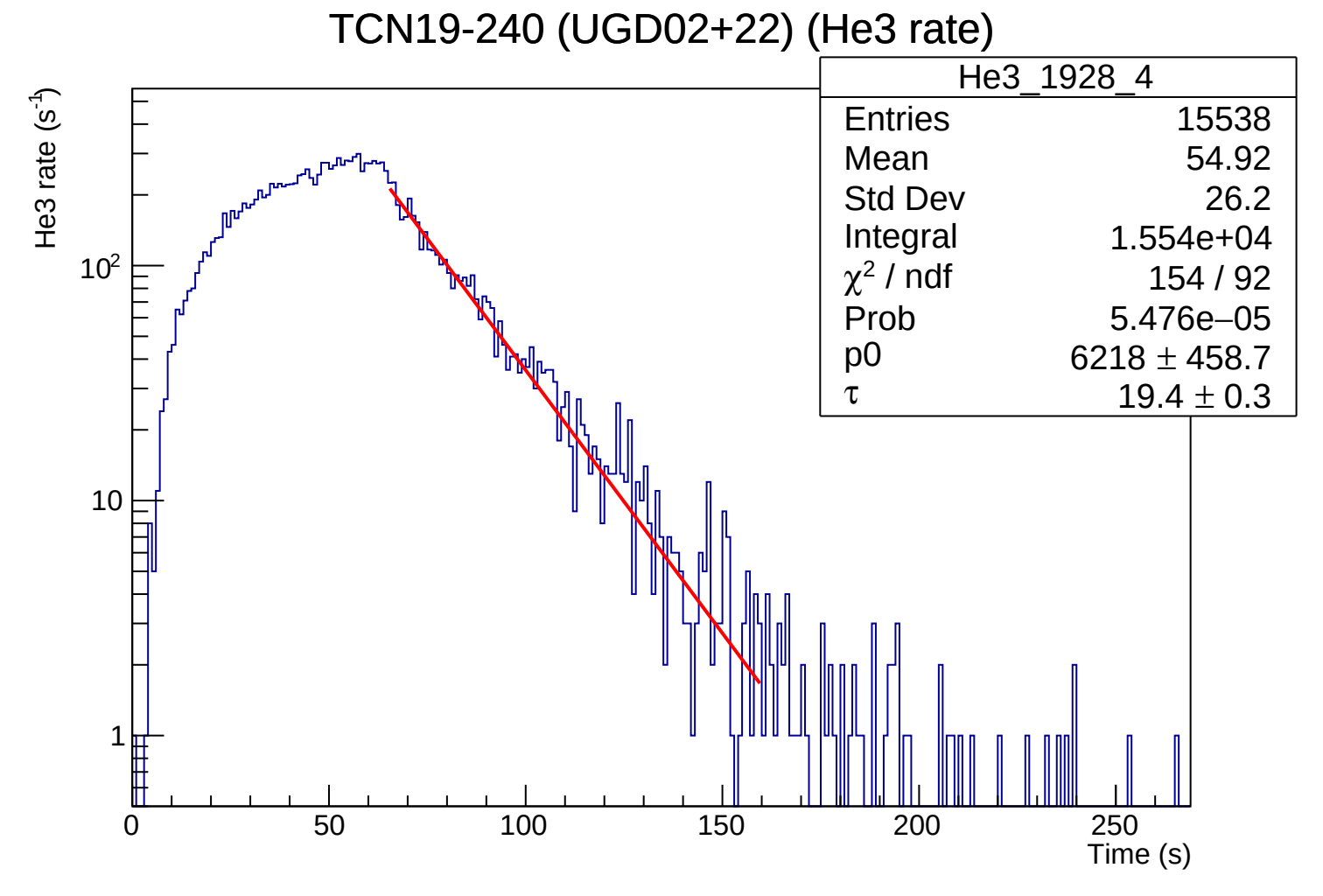

Emptying time (s)
2.5
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
0
20
40
60
80
100
Storage time (s)

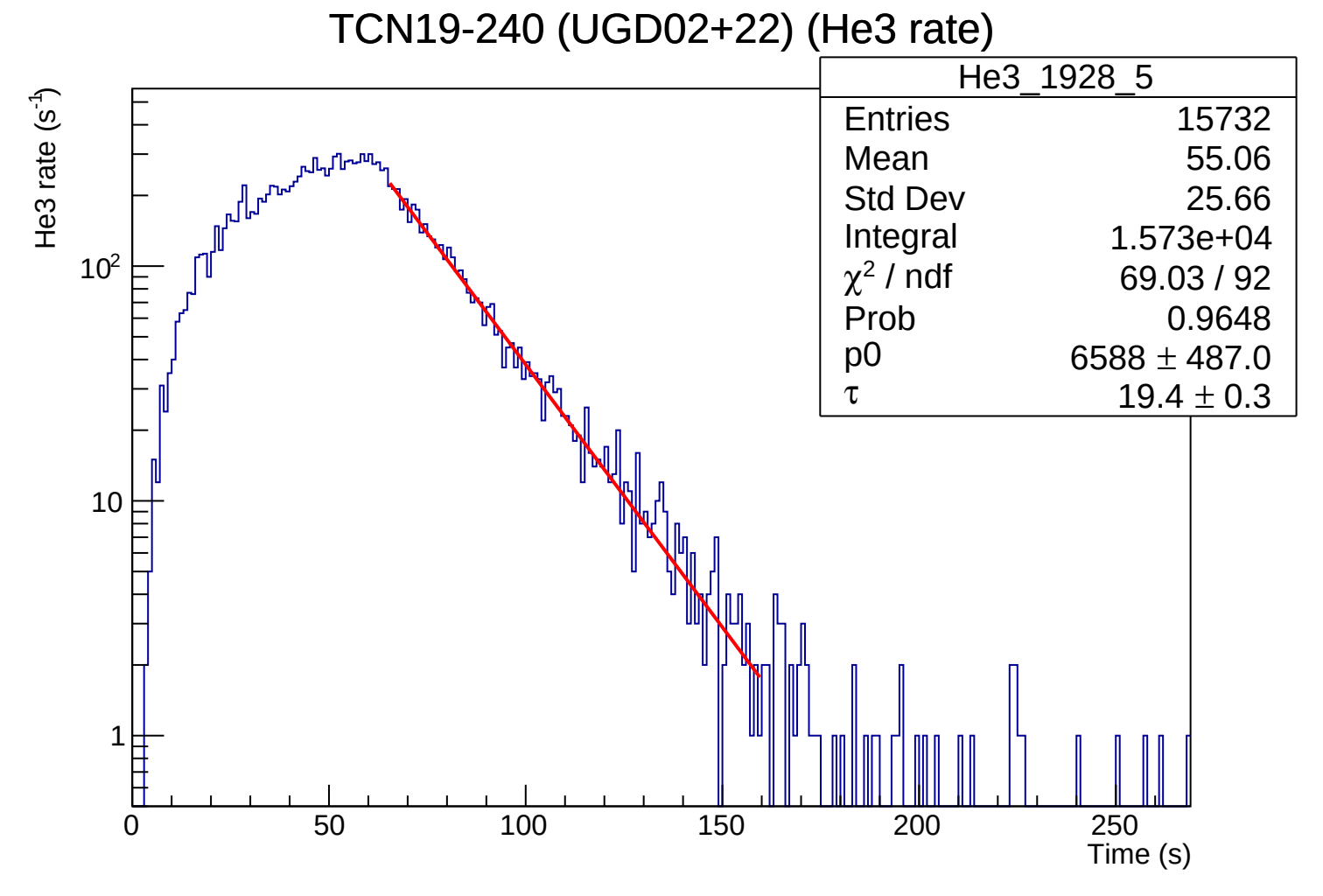

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_0
Entries 15974
Mean 55.15
Std Dev 26.05
Integral 1.597e+04
χ² / ndf 139.8 / 93
Prob 0.001227
p0 7324 ± 553.4
τ 18.96 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

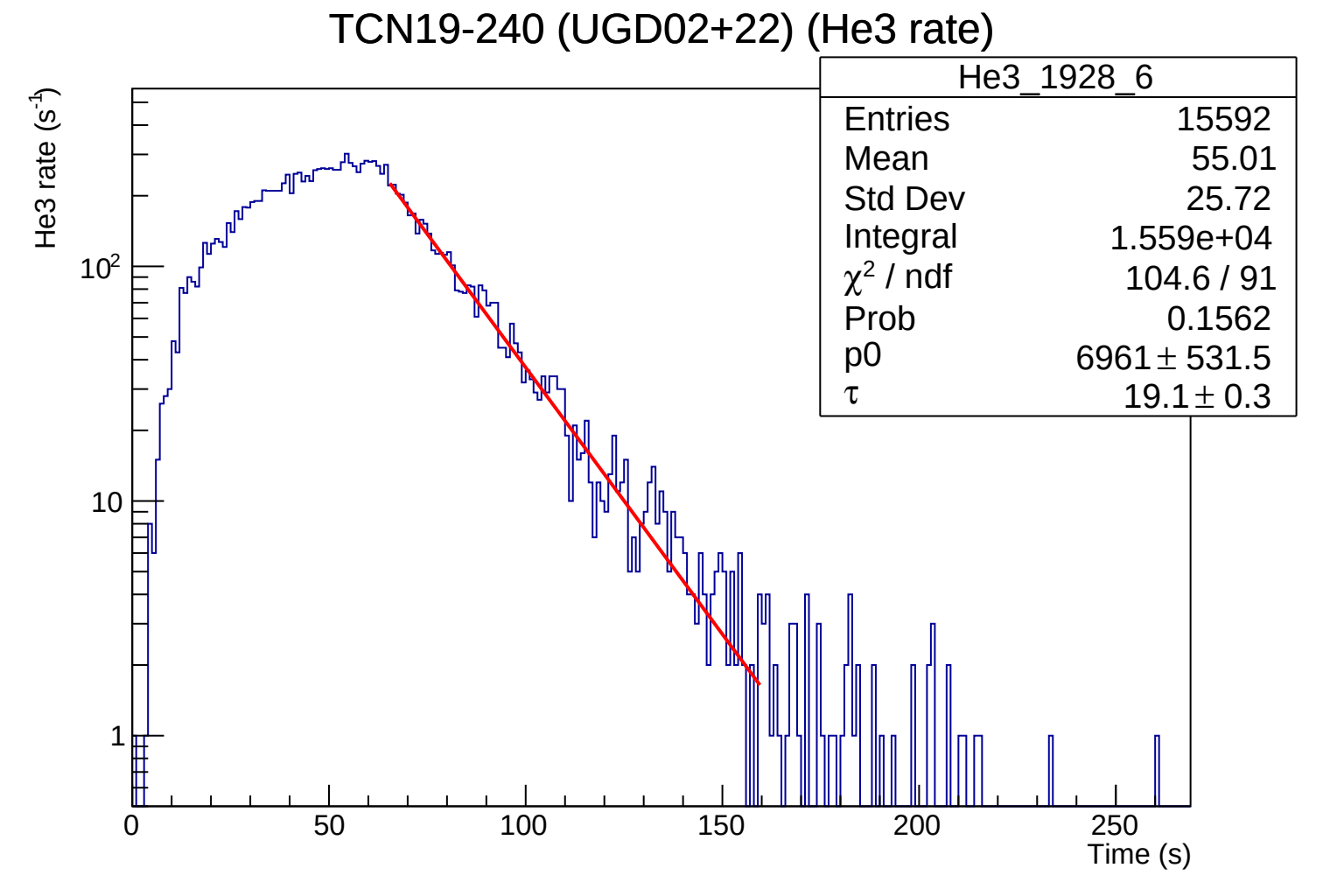

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_1
Entries 15599
Mean 55.07
Std Dev 25.69
Integral 1.56e+04
χ² / ndf 100 / 92
Prob 0.2669
p0 6760 ± 523.2
τ 19.2 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

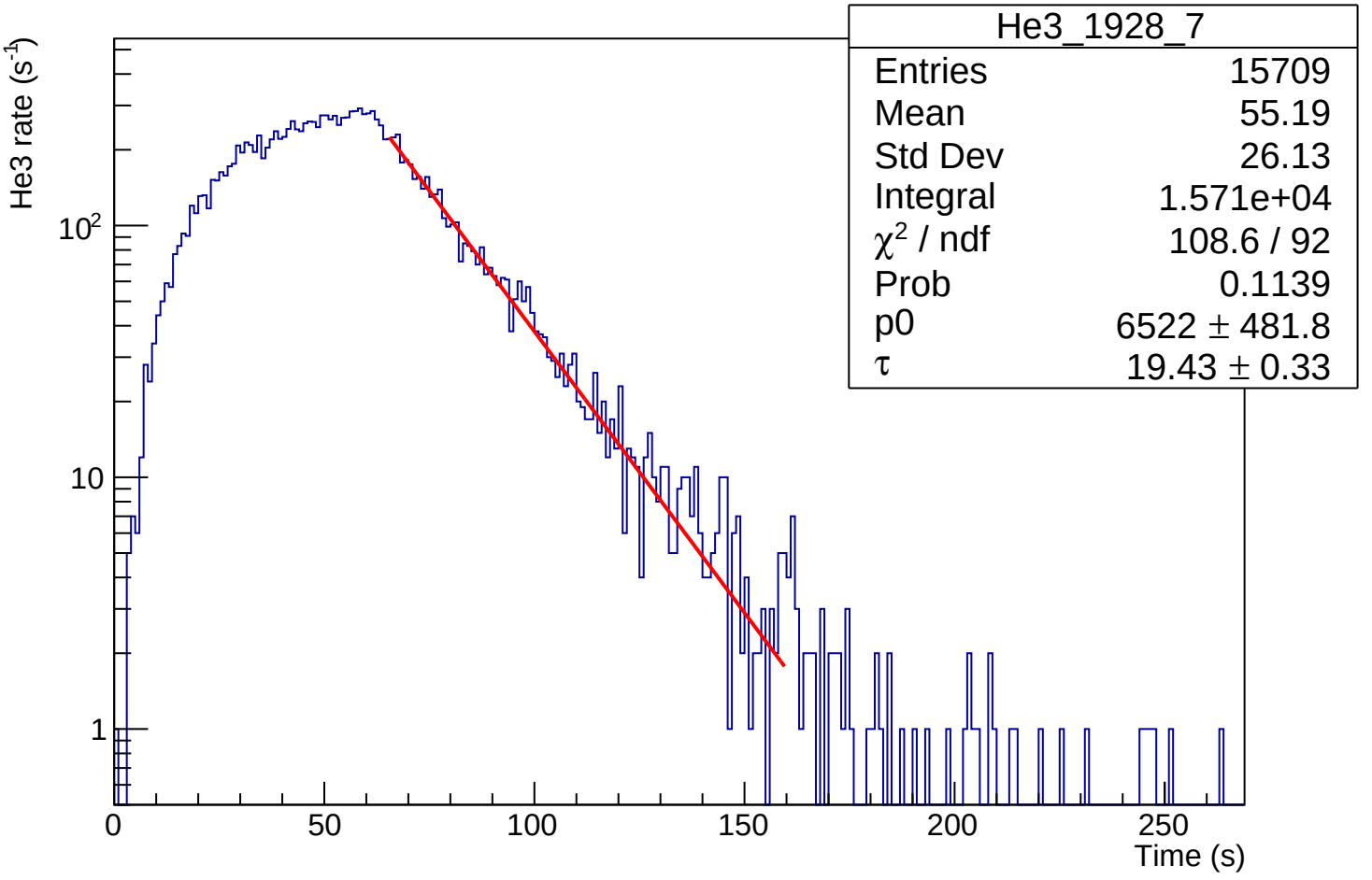

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_2
Entries 15822
Mean 54.98
Std Dev 26.18
Integral 1.582e+04
χ² / ndf 82.49 / 93
Prob 0.7741
p0 7330 ± 553.8
τ 18.98 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

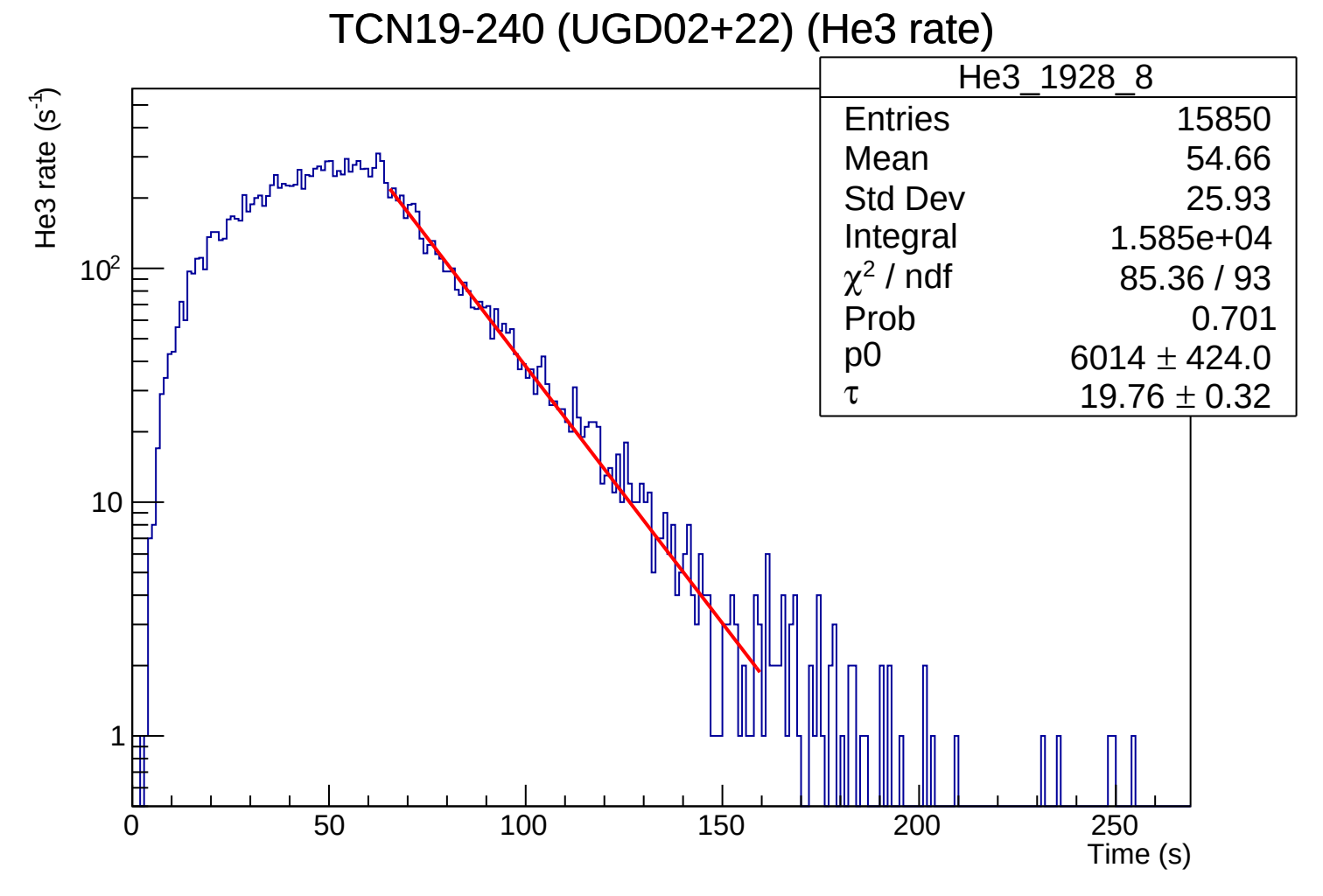

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_3
Entries 15749
Mean 55.36
Std Dev 26.33
Integral 1.575e+04
χ² / ndf 97.23 / 92
Prob 0.3346
p0 6851 ± 490.9
τ 19.29 ± 0.31
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

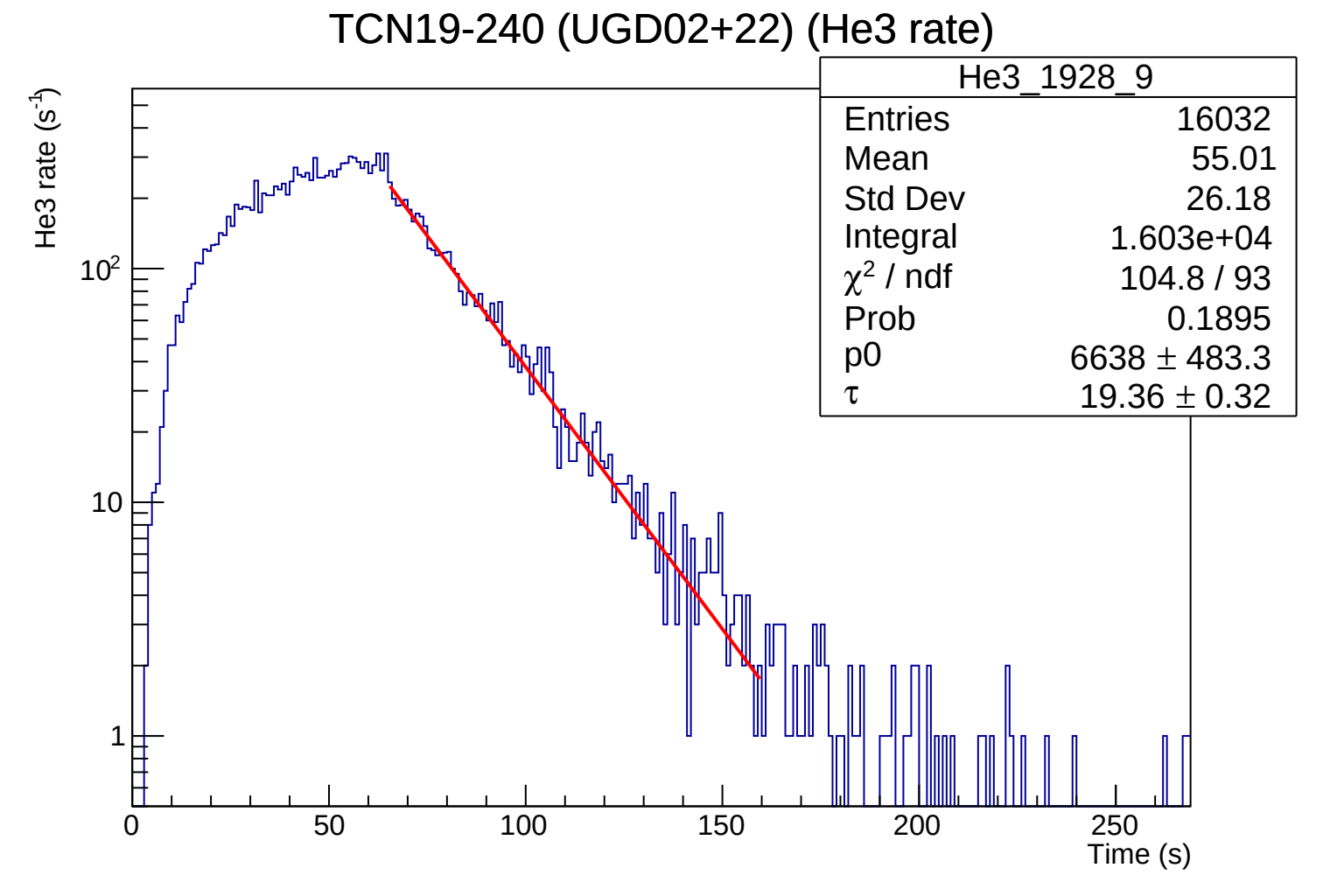

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_4
Entries 15538
Mean 54.92
Std Dev 26.2
Integral 1.554e+04
χ² / ndf 154 / 92
Prob 5.476e−05
p0 6218 ± 458.7
τ 19.4 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

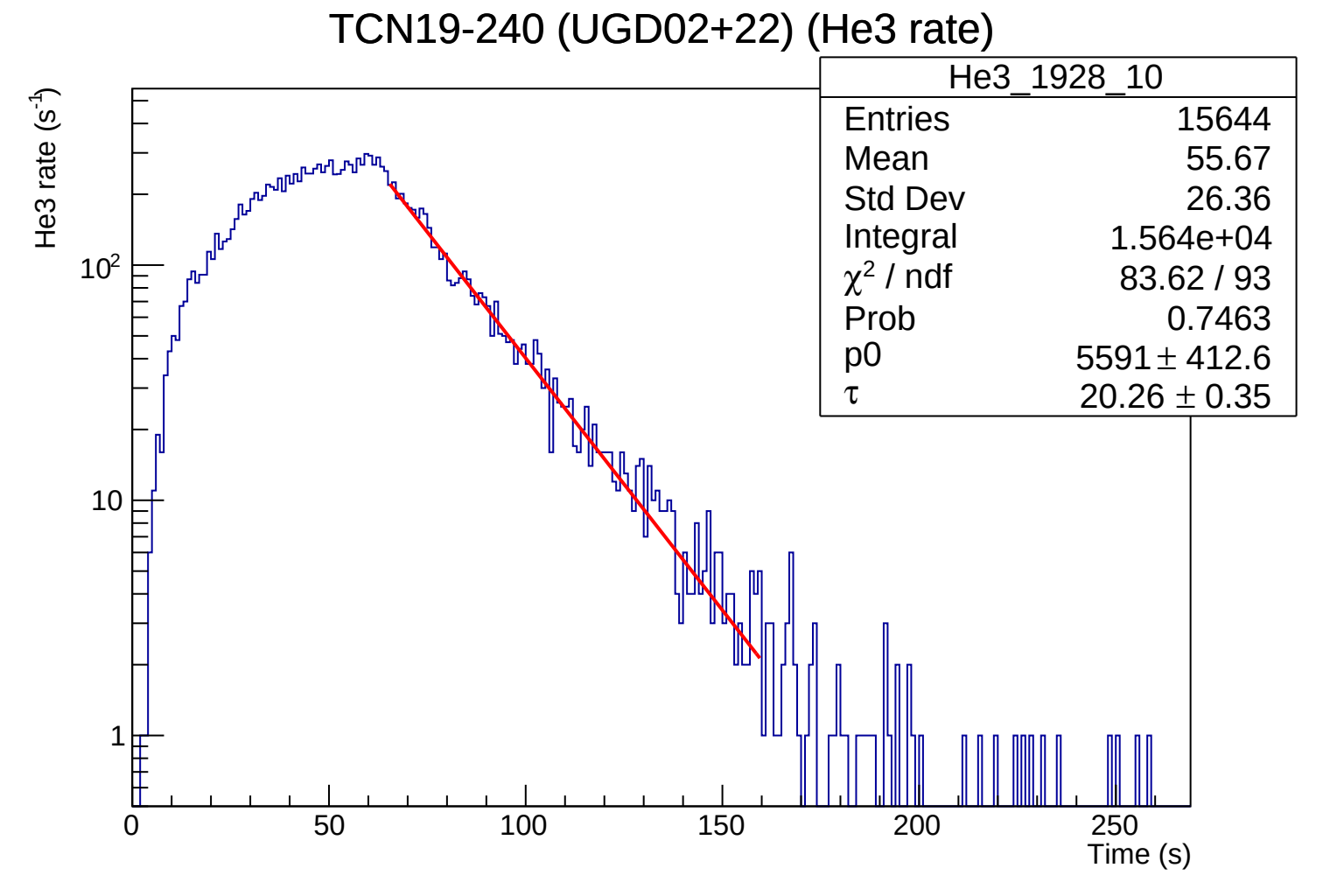

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_5
Entries 15732
Mean 55.06
Std Dev 25.66
Integral 1.573e+04
χ² / ndf 69.03 / 92
Prob 0.9648
p0 6588 ± 487.0
τ 19.4 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

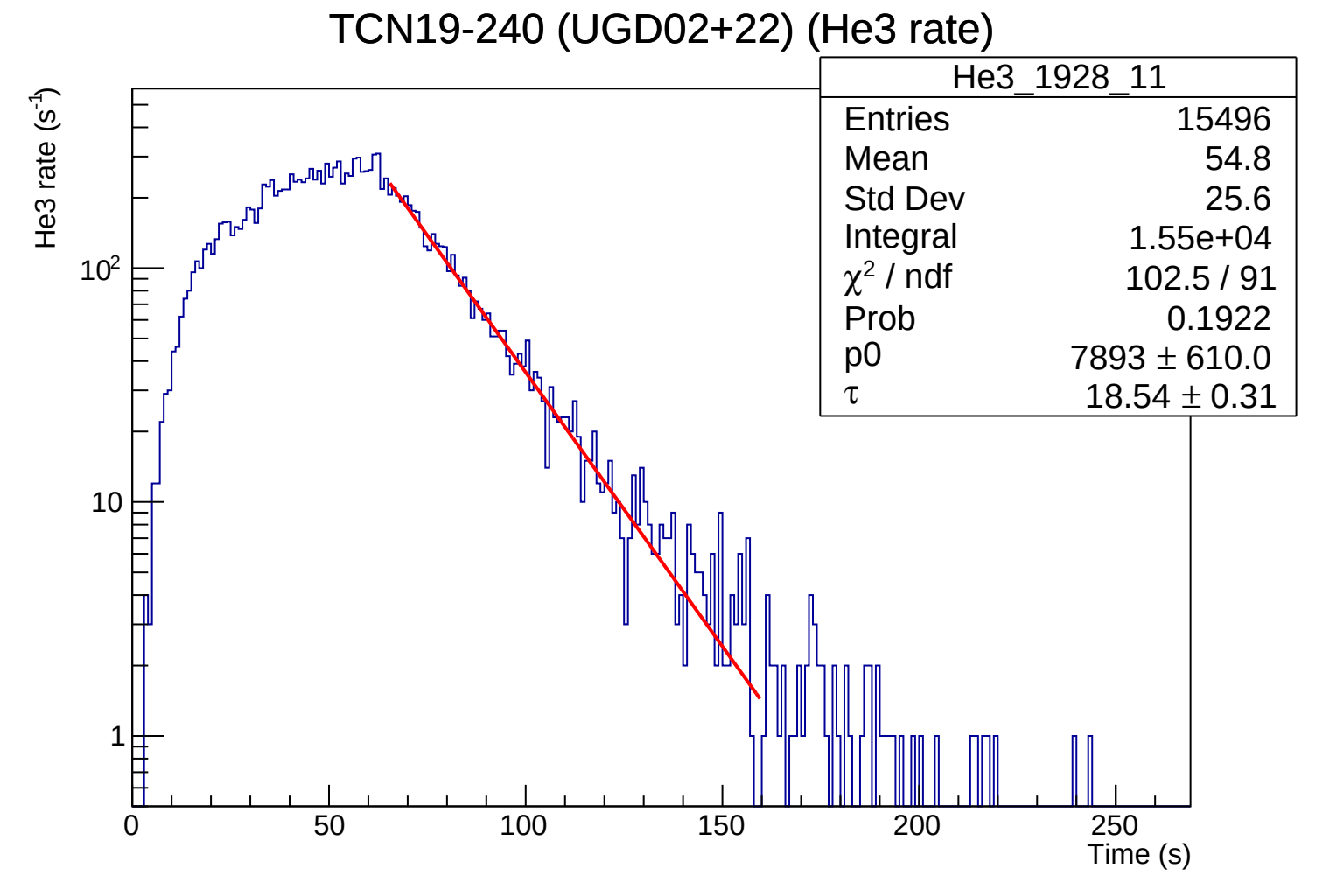

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_6
Entries 15592
Mean 55.01
Std Dev 25.72
Integral 1.559e+04
χ² / ndf 104.6 / 91
Prob 0.1562
p0 6961 ± 531.5
τ 19.1 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

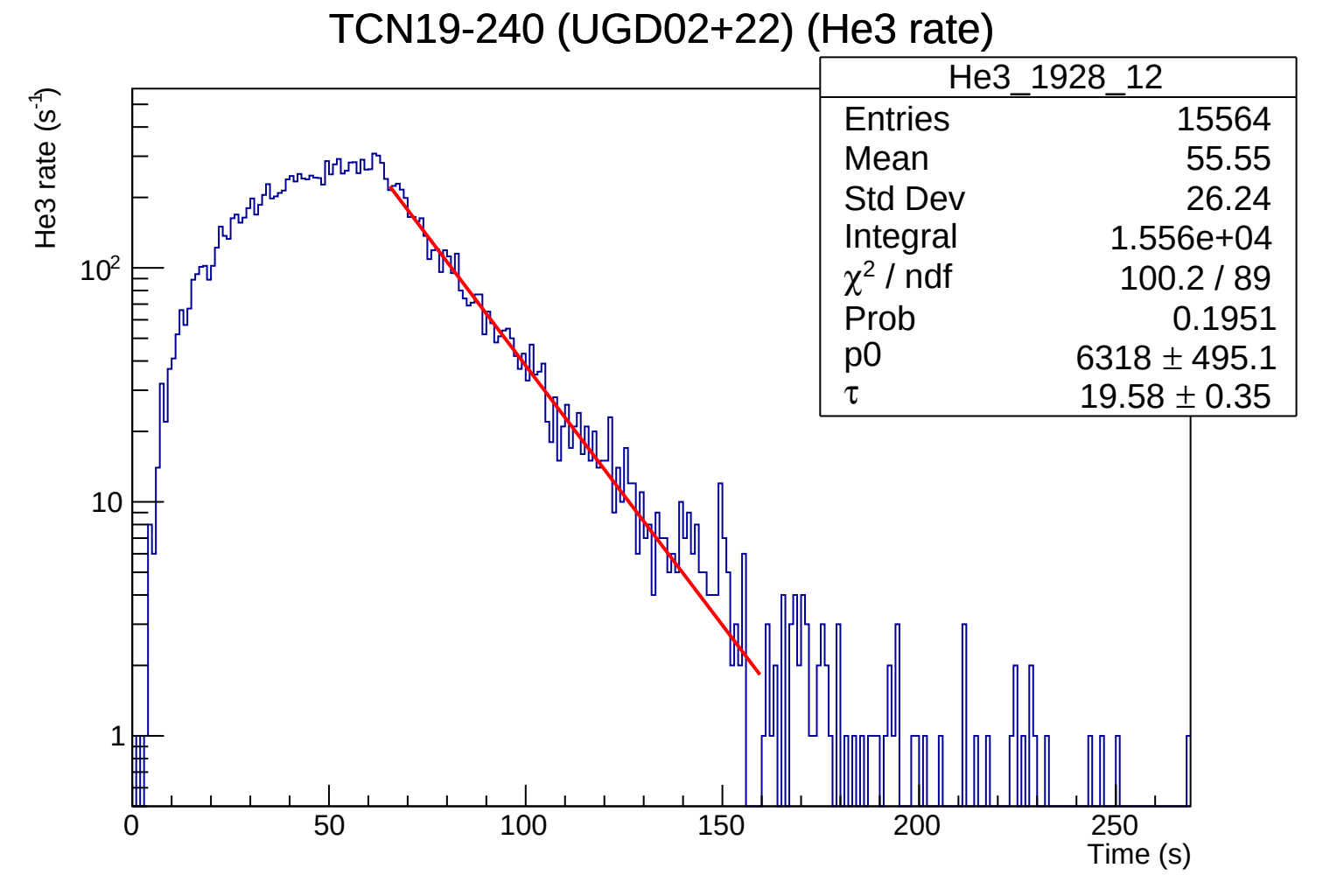

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_7
Entries 15709
Mean 55.19
Std Dev 26.13
Integral 1.571e+04
χ² / ndf 108.6 / 92
Prob 0.1139
p0 6522 ± 481.8
τ 19.43 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

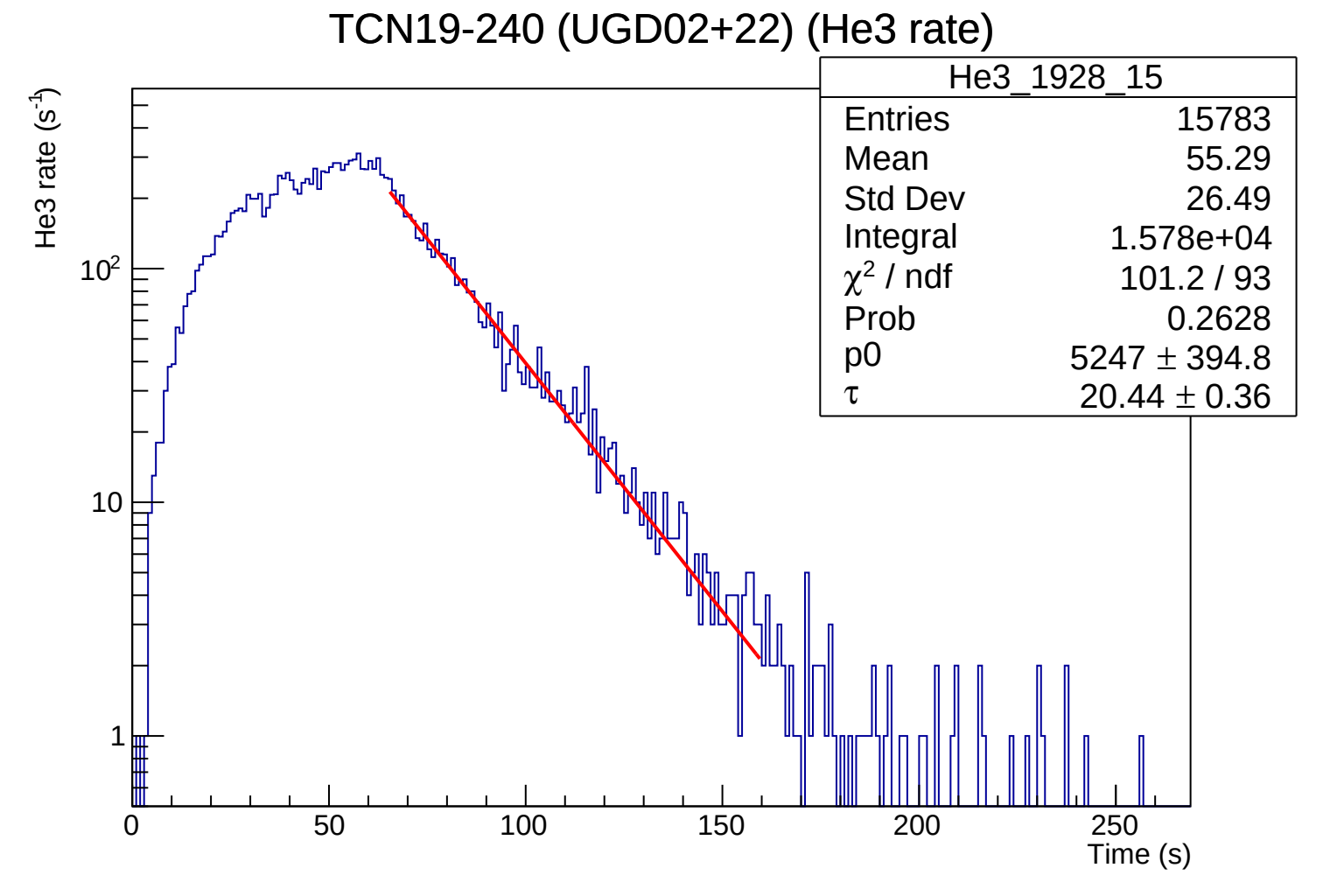

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_8
Entries 15850
Mean 54.66
Std Dev 25.93
Integral 1.585e+04
χ² / ndf 85.36 / 93
Prob 0.701
p0 6014 ± 424.0
τ 19.76 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

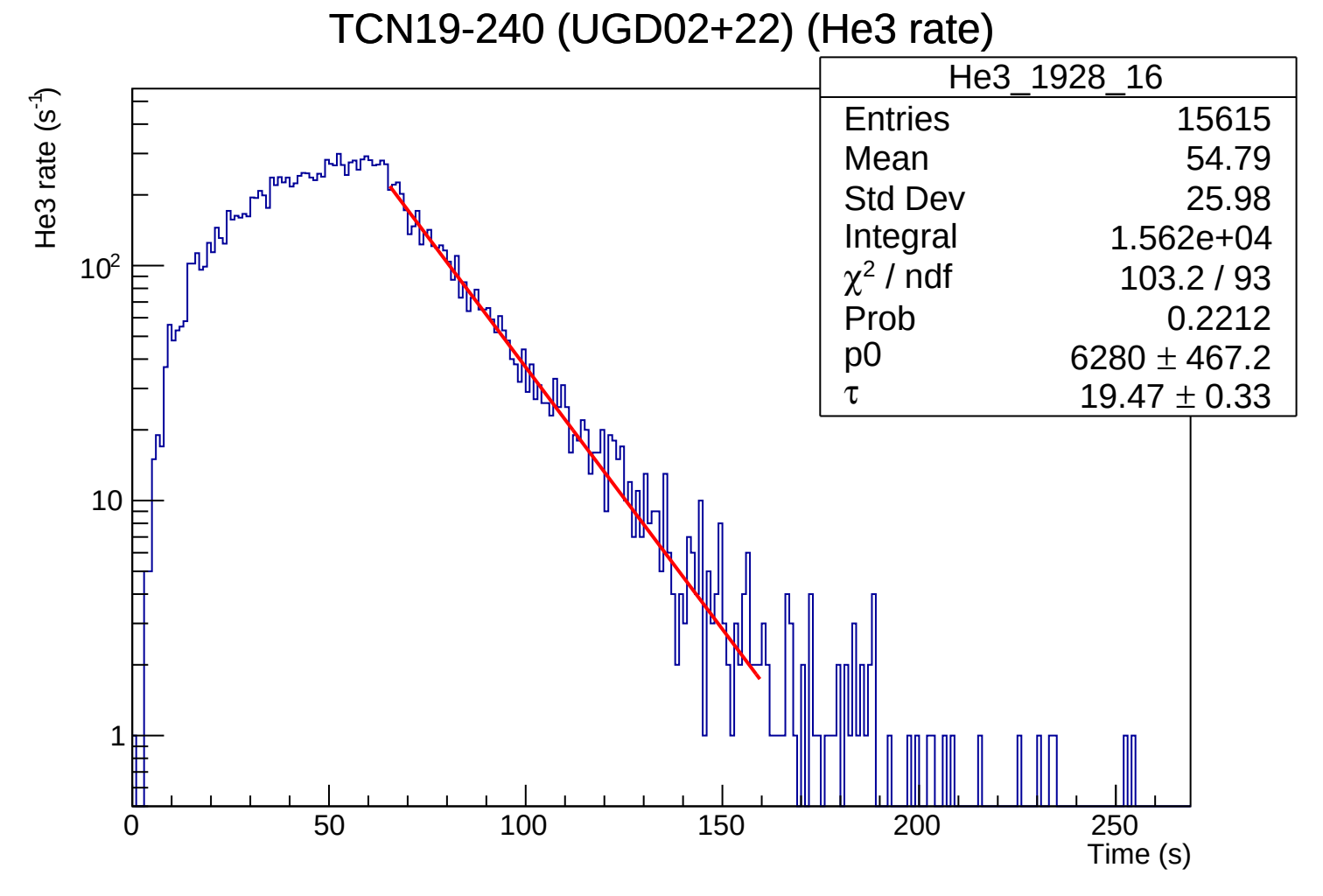

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_9
Entries 16032
Mean 55.01
Std Dev 26.18
Integral 1.603e+04
χ² / ndf 104.8 / 93
Prob 0.1895
p0 6638 ± 483.3
τ 19.36 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

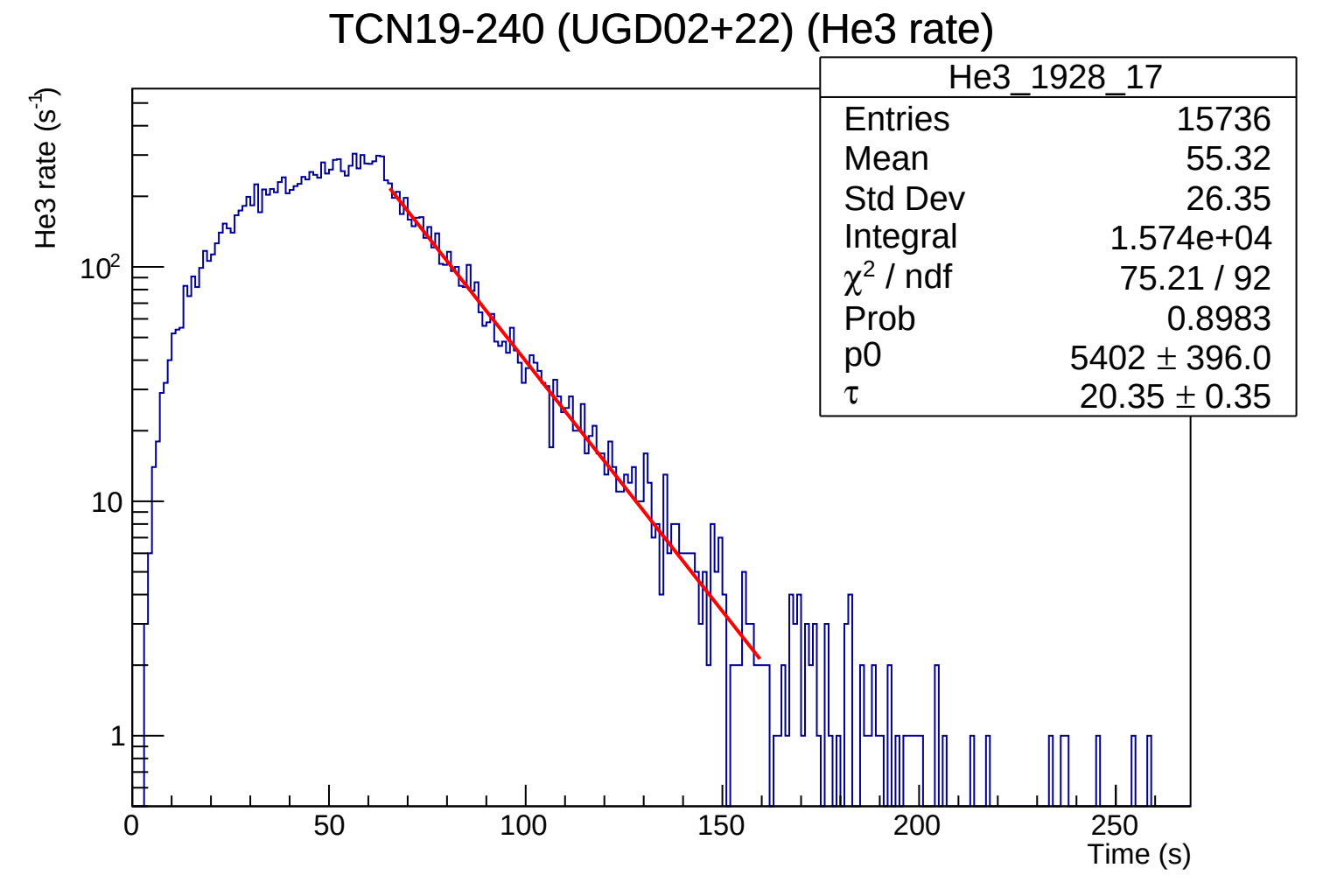

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_10
Entries 15644
Mean 55.67
Std Dev 26.36
Integral 1.564e+04
χ² / ndf 83.62 / 93
Prob 0.7463
p0 5591 ± 412.6
τ 20.26 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

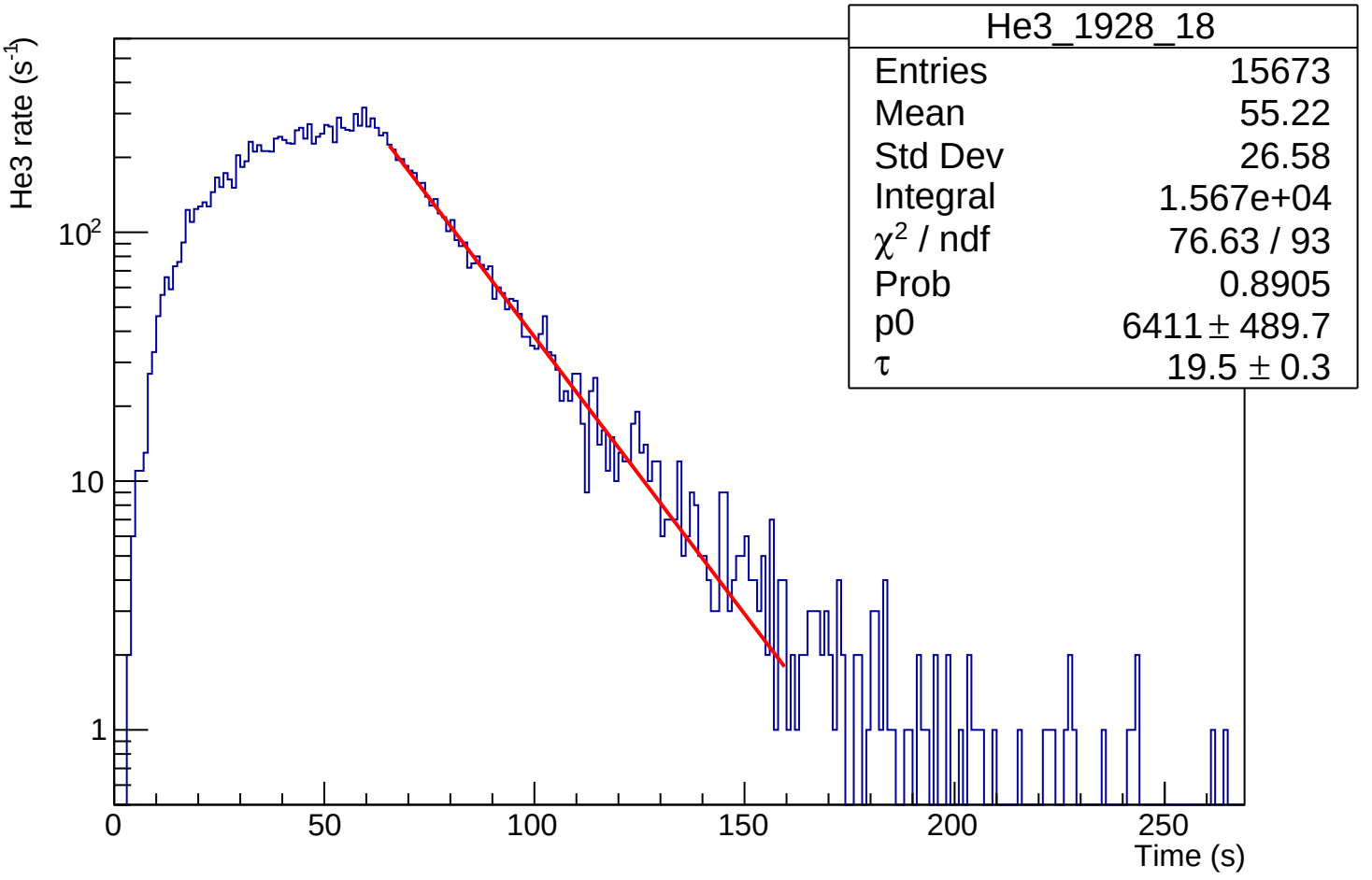

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_11
Entries 15496
Mean 54.8
Std Dev 25.6
Integral 1.55e+04
χ² / ndf 102.5 / 91
Prob 0.1922
p0 7893 ± 610.0
τ 18.54 ± 0.31
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

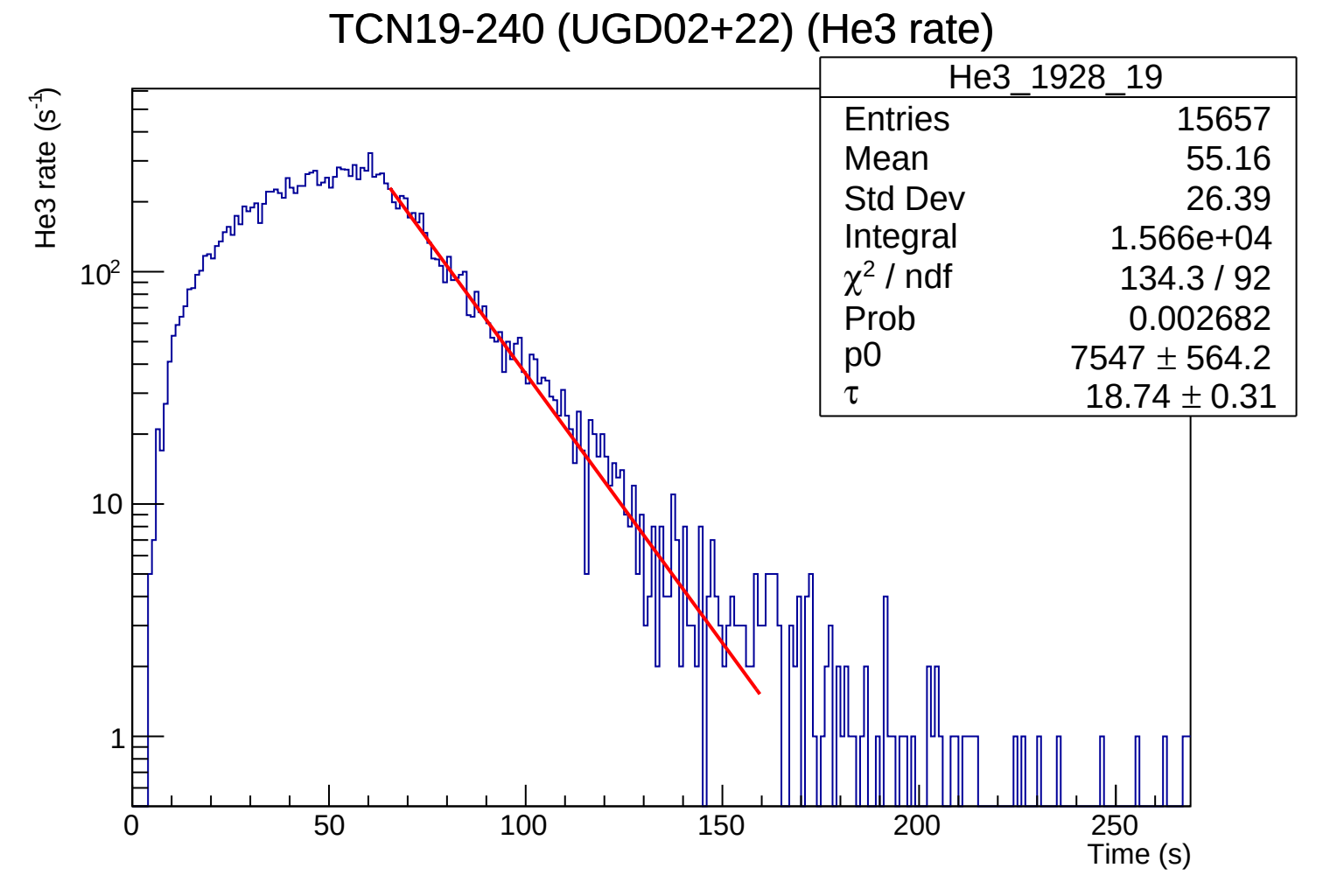

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_12
Entries 15564
Mean 55.55
Std Dev 26.24
Integral 1.556e+04
χ² / ndf 100.2 / 89
Prob 0.1951
p0 6318 ± 495.1
τ 19.58 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

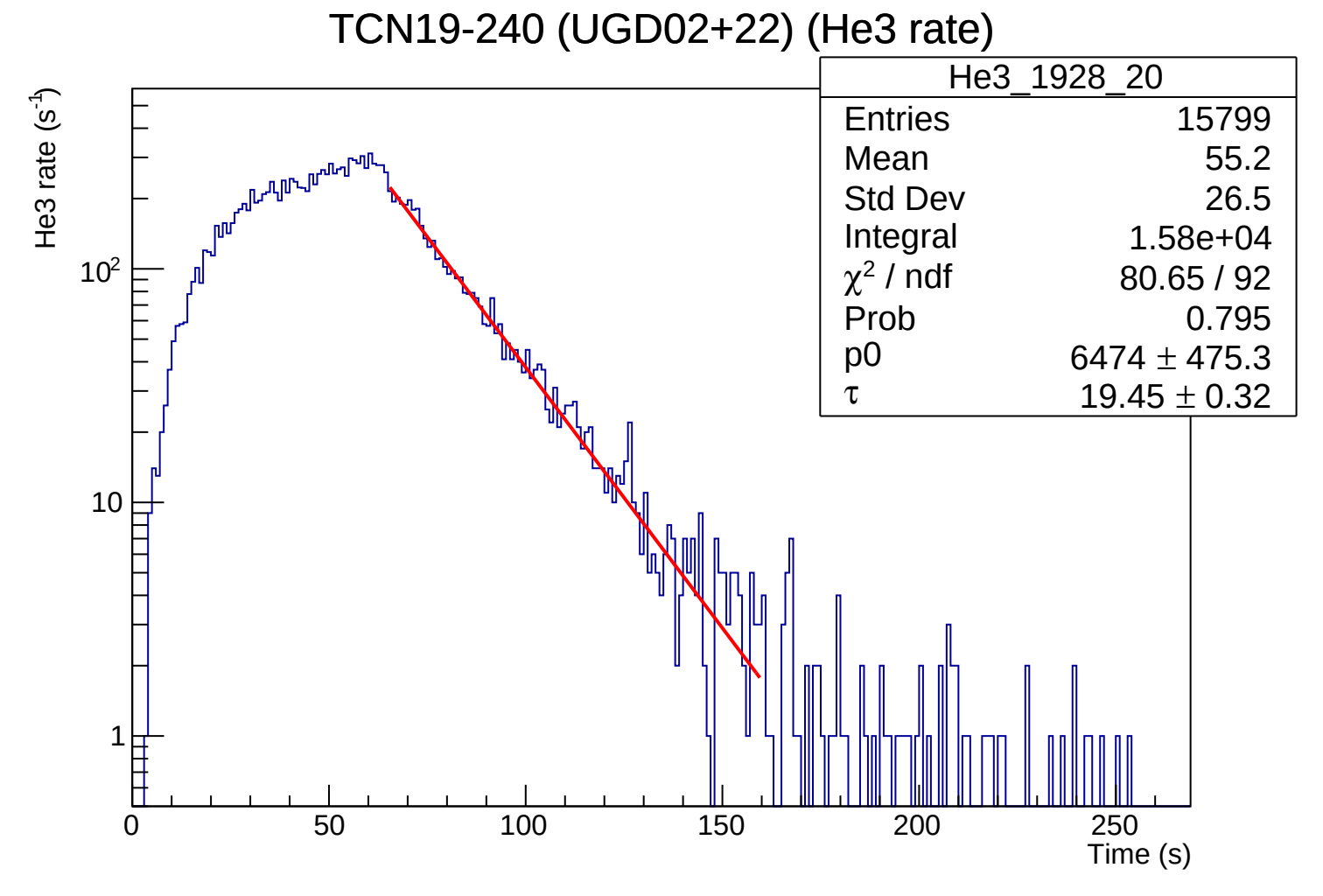

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_15
Entries 15783
Mean 55.29
Std Dev 26.49
Integral 1.578e+04
χ² / ndf 101.2 / 93
Prob 0.2628
p0 5247 ± 394.8
τ 20.44 ± 0.36
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

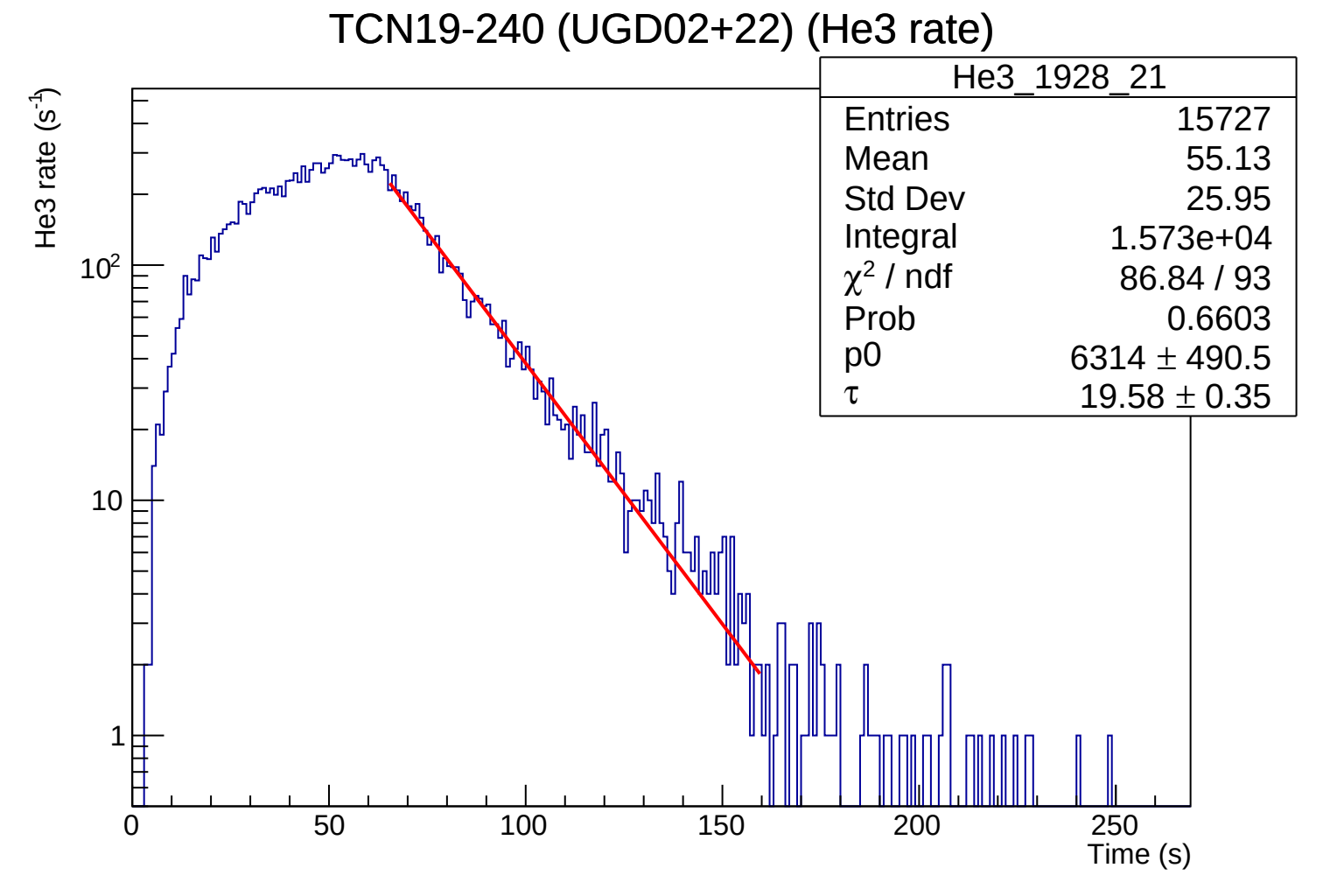

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_16
Entries 15615
Mean 54.79
Std Dev 25.98
Integral 1.562e+04
χ² / ndf 103.2 / 93
Prob 0.2212
p0 6280 ± 467.2
τ 19.47 ± 0.33
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

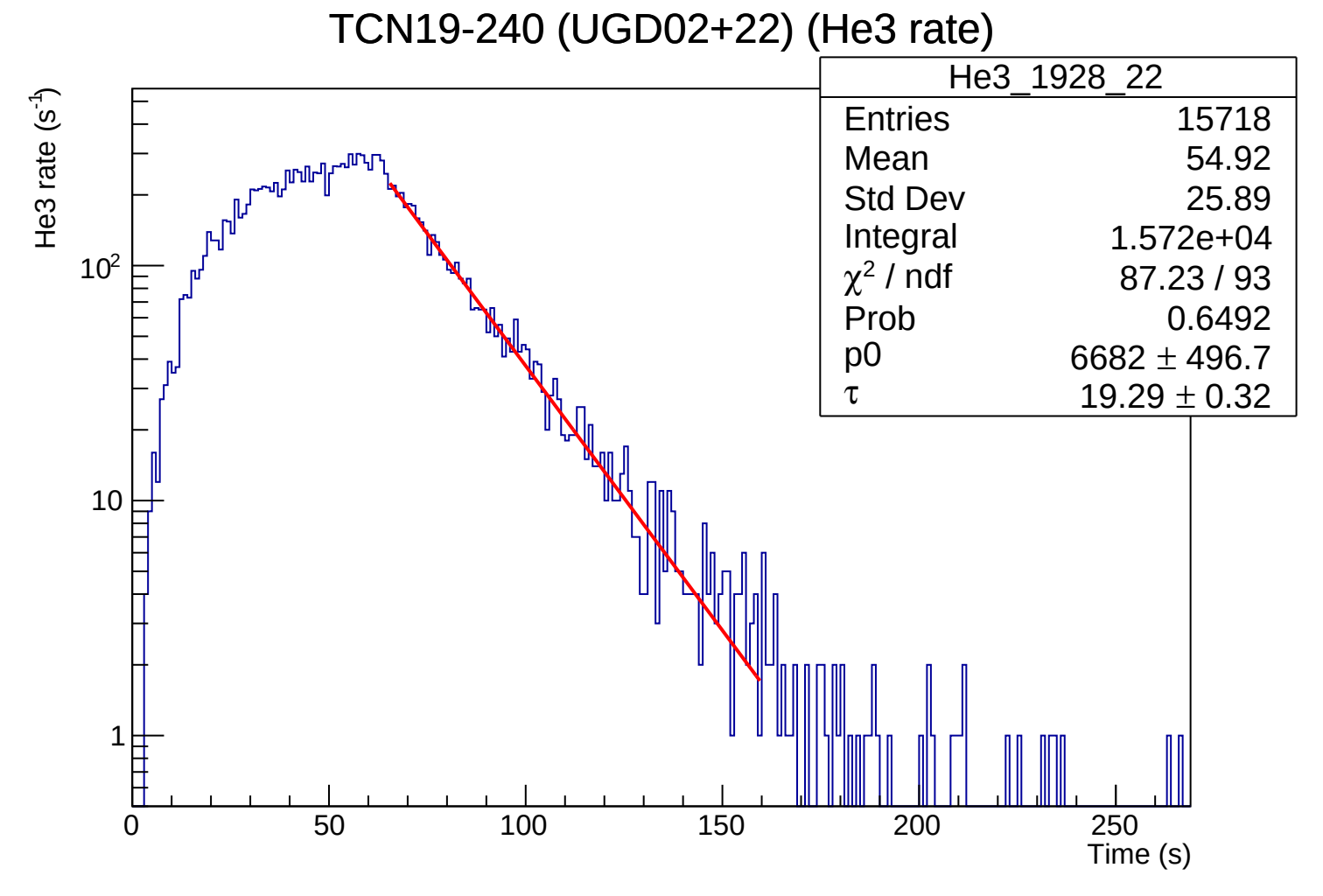

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_17
Entries 15736
Mean 55.32
Std Dev 26.35
Integral 1.574e+04
χ² / ndf 75.21 / 92
Prob 0.8983
p0 5402 ± 396.0
τ 20.35 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

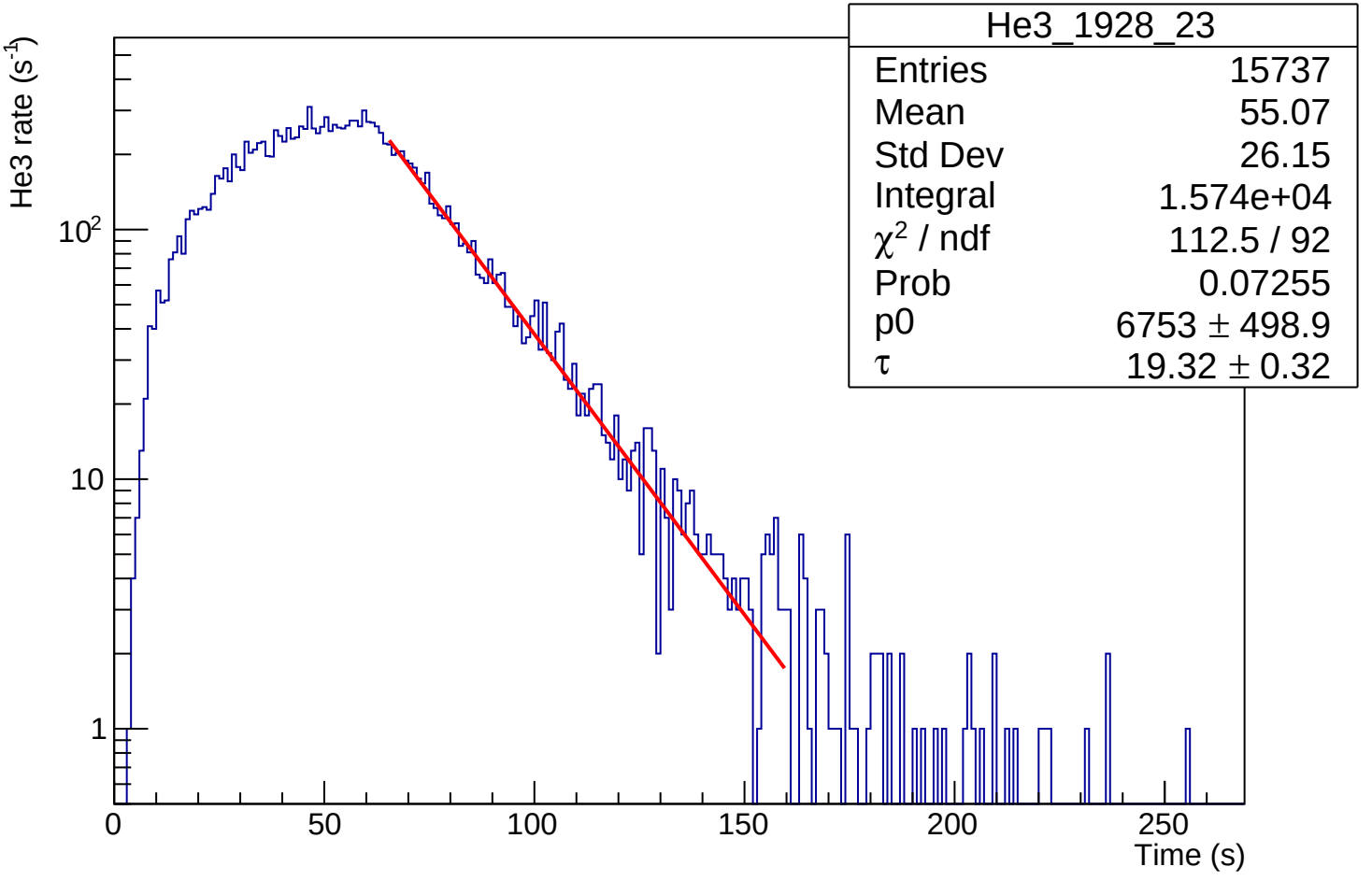

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_18
Entries 15673
Mean 55.22
Std Dev 26.58
Integral 1.567e+04
χ² / ndf 76.63 / 93
Prob 0.8905
p0 6411 ± 489.7
τ 19.5 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

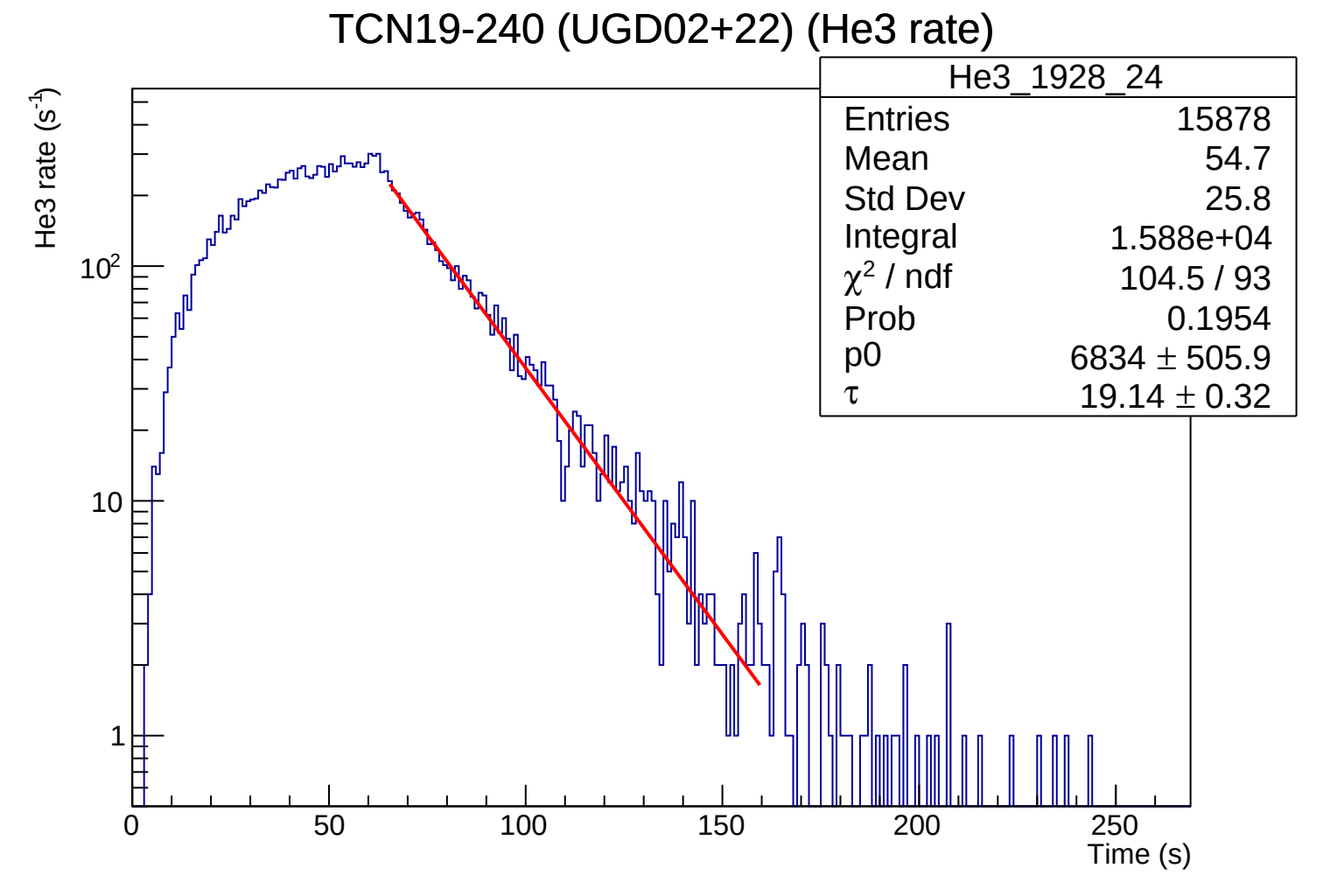

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_19
Entries 15657
Mean 55.16
Std Dev 26.39
Integral 1.566e+04
χ² / ndf 134.3 / 92
Prob 0.002682
p0 7547 ± 564.2
τ 18.74 ± 0.31
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

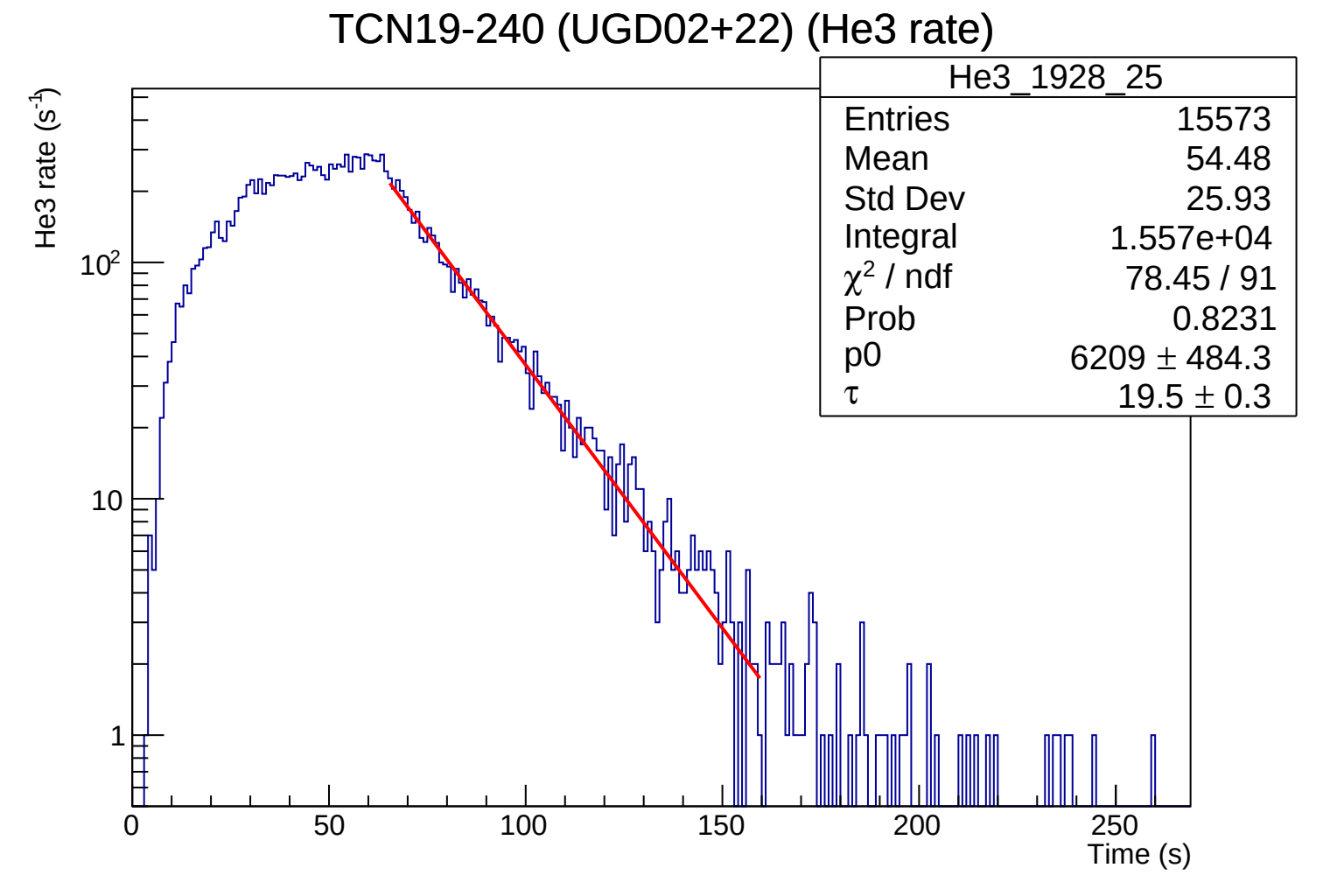

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_20
Entries 15799
Mean 55.2
Std Dev 26.5
Integral 1.58e+04
χ² / ndf 80.65 / 92
Prob 0.795
p0 6474 ± 475.3
τ 19.45 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

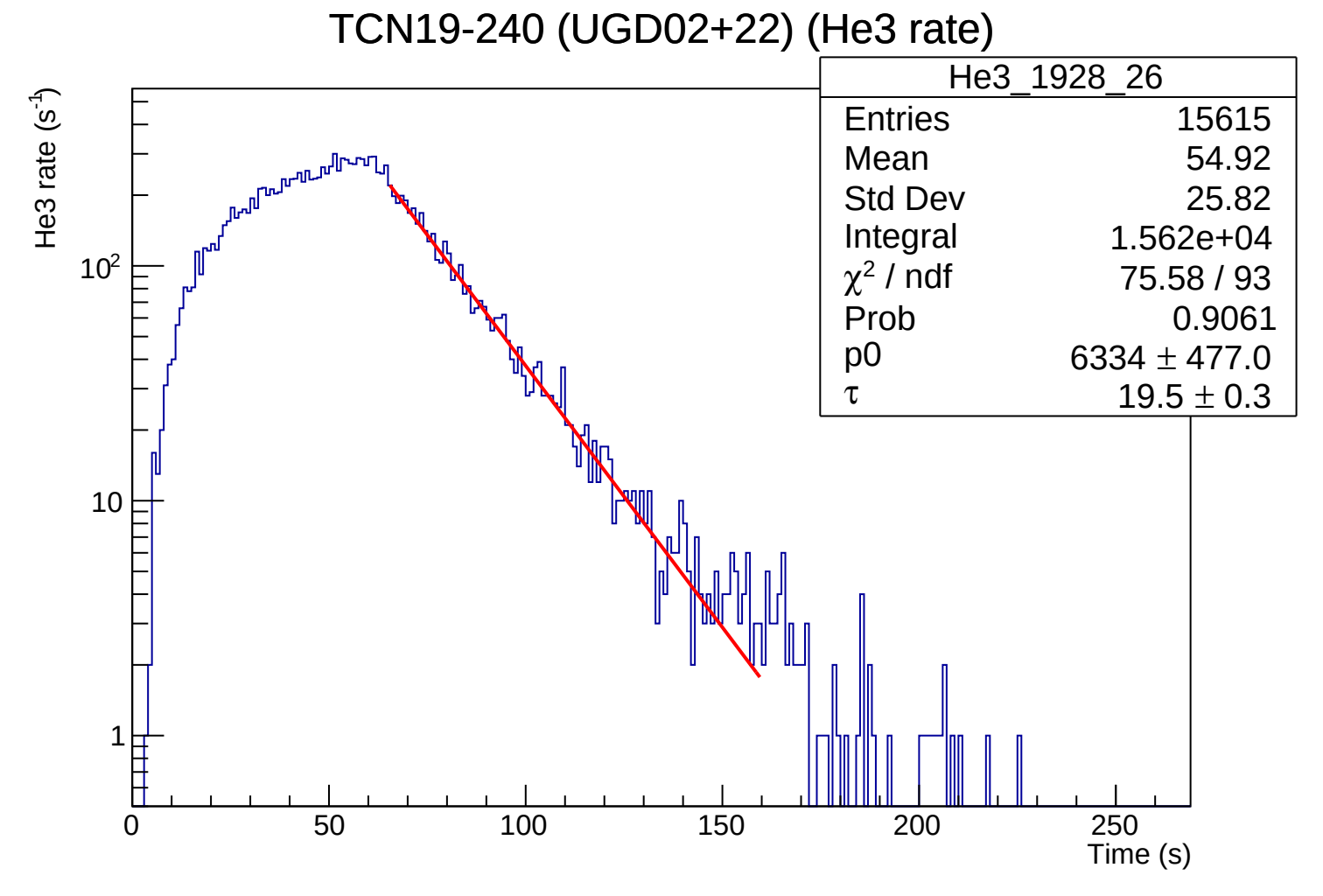

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_21
Entries 15727
Mean 55.13
Std Dev 25.95
Integral 1.573e+04
χ² / ndf 86.84 / 93
Prob 0.6603
p0 6314 ± 490.5
τ 19.58 ± 0.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

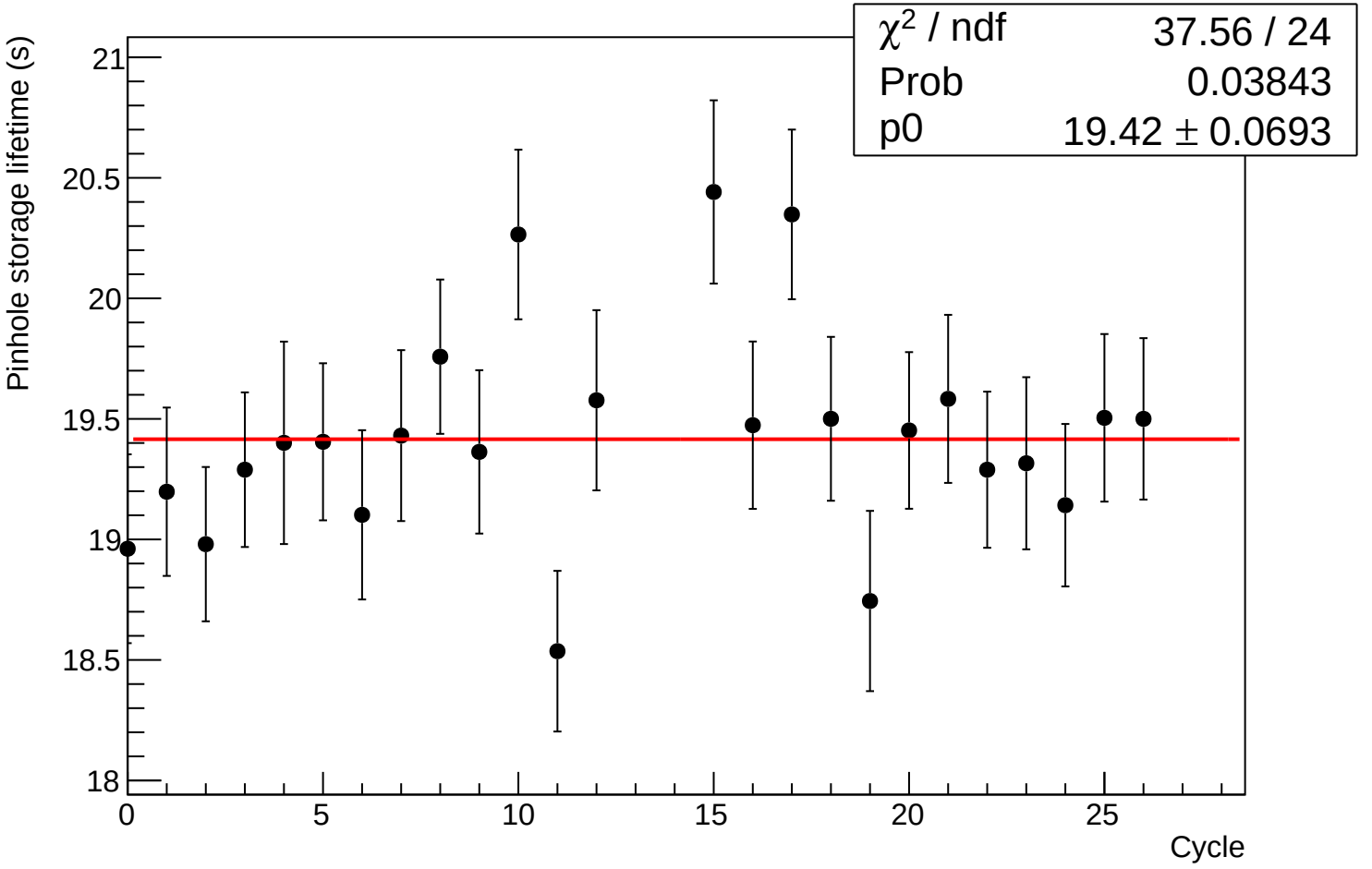

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_22
Entries 15718
Mean 54.92
Std Dev 25.89
Integral 1.572e+04
χ² / ndf 87.23 / 93
Prob 0.6492
p0 6682 ± 496.7
τ 19.29 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

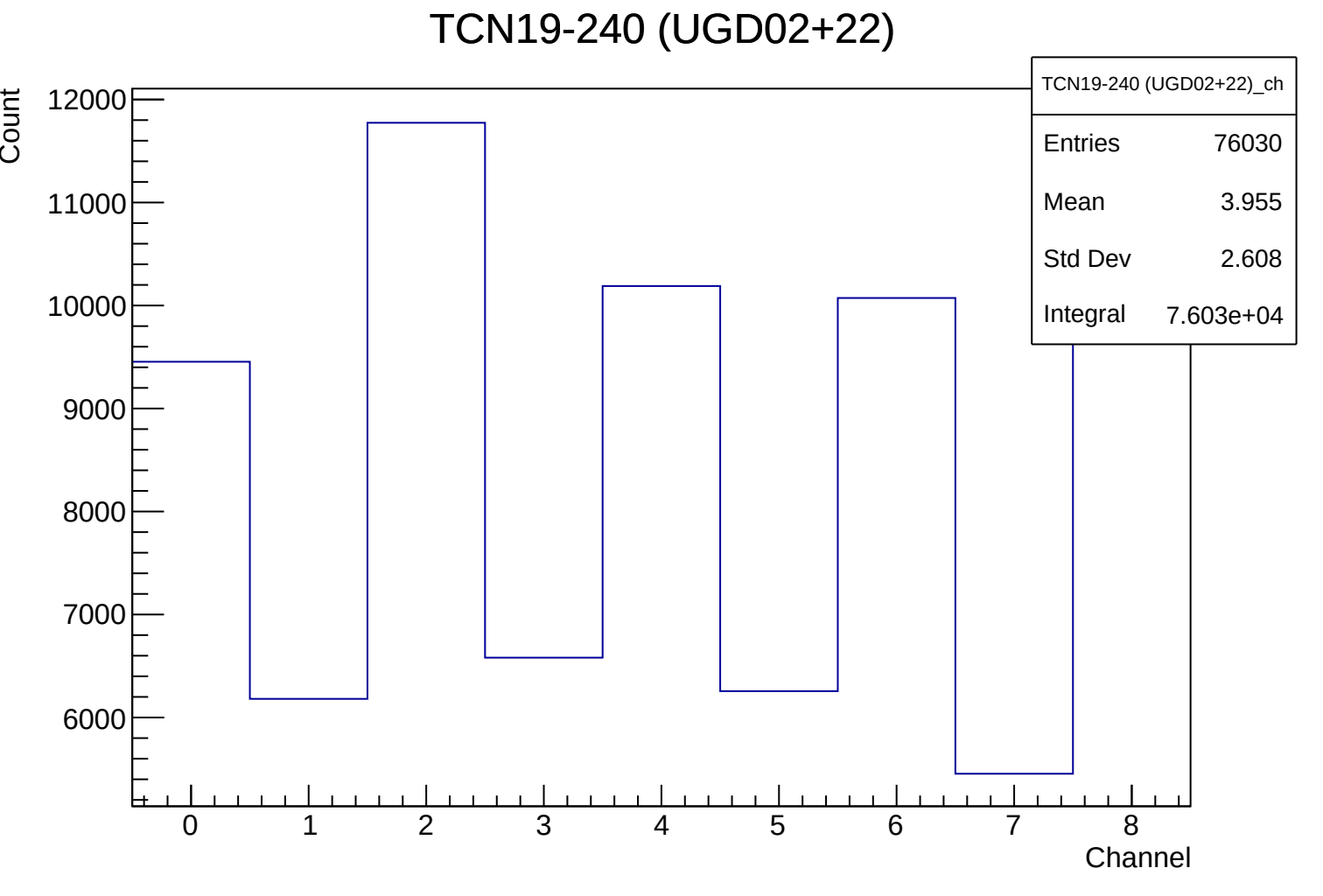

TCN19-240 (UGD02+22) (He3 rate)
He3_1928_23
Entries 15737
Mean 55.07
Std Dev 26.15
Integral 1.574e+04
χ² / ndf 112.5 / 92
Prob 0.07255
p0 6753 ± 498.9
τ 19.32 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-240 (UGD02+22) (He3 rate)
He3_1928_24
Entries 15878
Mean 54.7
Std Dev 25.8
Integral 1.588e+04
χ² / ndf 104.5 / 93
Prob 0.1954
p0 6834 ± 505.9
τ 19.14 ± 0.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-240 (UGD02+22) (He3 rate)
He3_1928_25
Entries 15573
Mean 54.48
Std Dev 25.93
Integral 1.557e+04
χ² / ndf 78.45 / 91
Prob 0.8231
p0 6209 ± 484.3
τ 19.5 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN19-240 (UGD02+22) (He3 rate)
He3_1928_26
Entries 15615
Mean 54.92
Std Dev 25.82
Integral 1.562e+04
χ² / ndf 75.58 / 93
Prob 0.9061
p0 6334 ± 477.0
τ 19.5 ± 0.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


χ^2 / ndf 37.56 / 24
Prob 0.03843
p0 19.42 ± 0.0693
Pinhole storage lifetime (s)
21
20.5
20
19.5
19
18.5
18
0
5
10
15
20
25
Cycle


TCN19-240 (UGD02+22)
TCN19-240 (UGD02+22)_ch
Entries 76030
Mean 3.955
Std Dev 2.608
Integral 7.603e+04
Count
12000
11000
10000
9000
8000
7000
6000
0
1
2
3
4
5
6
7
8
Channel