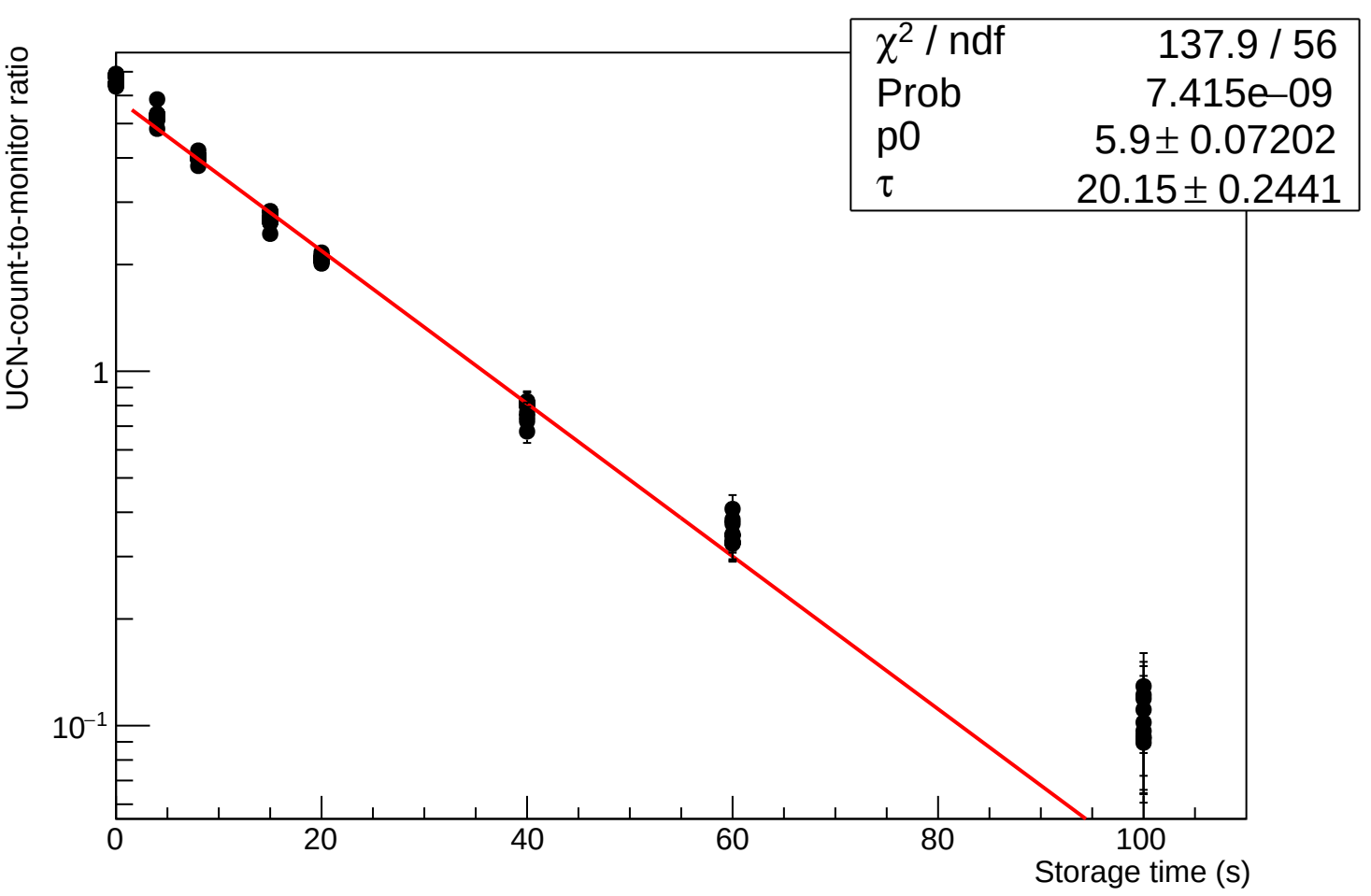
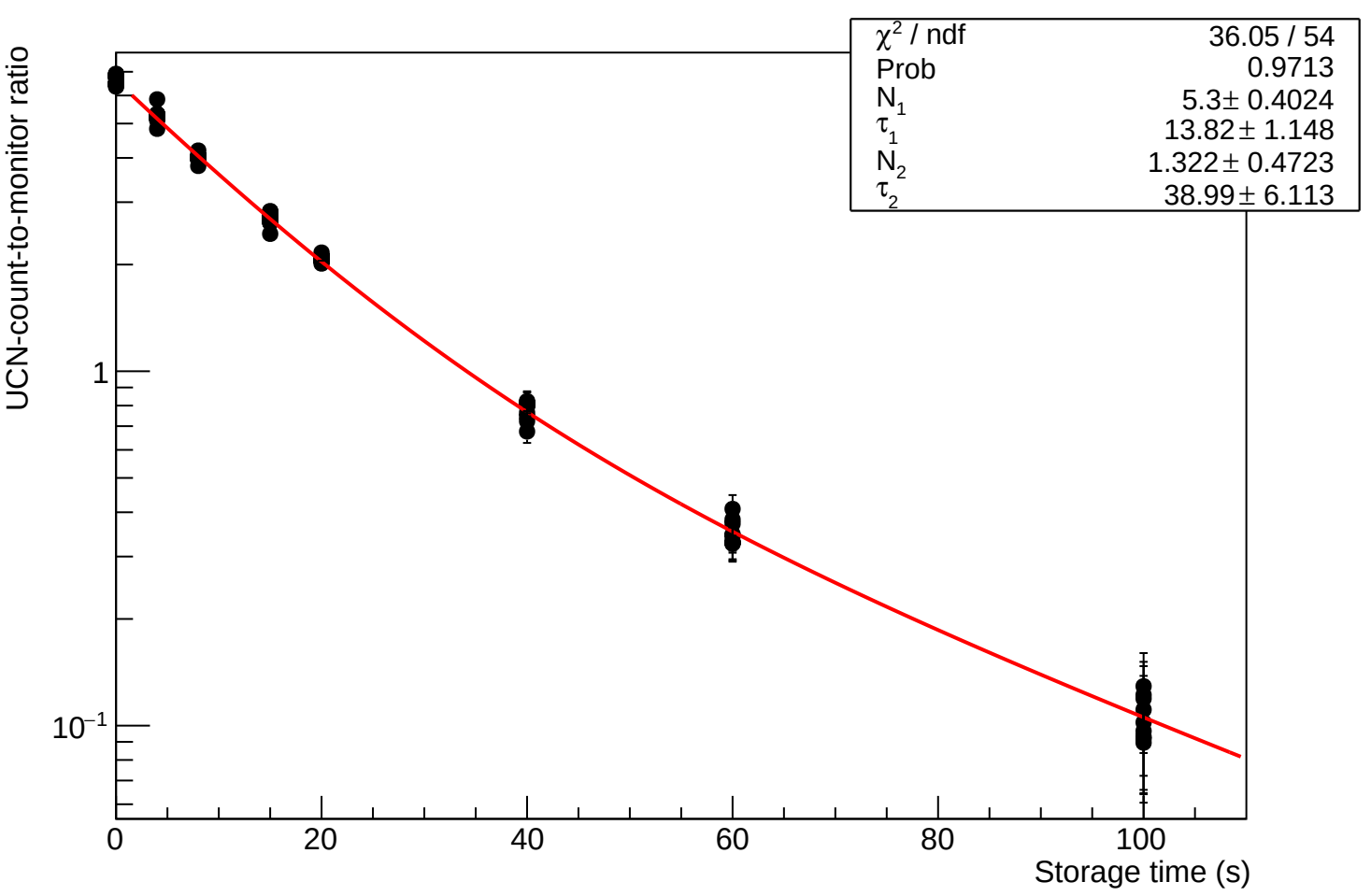
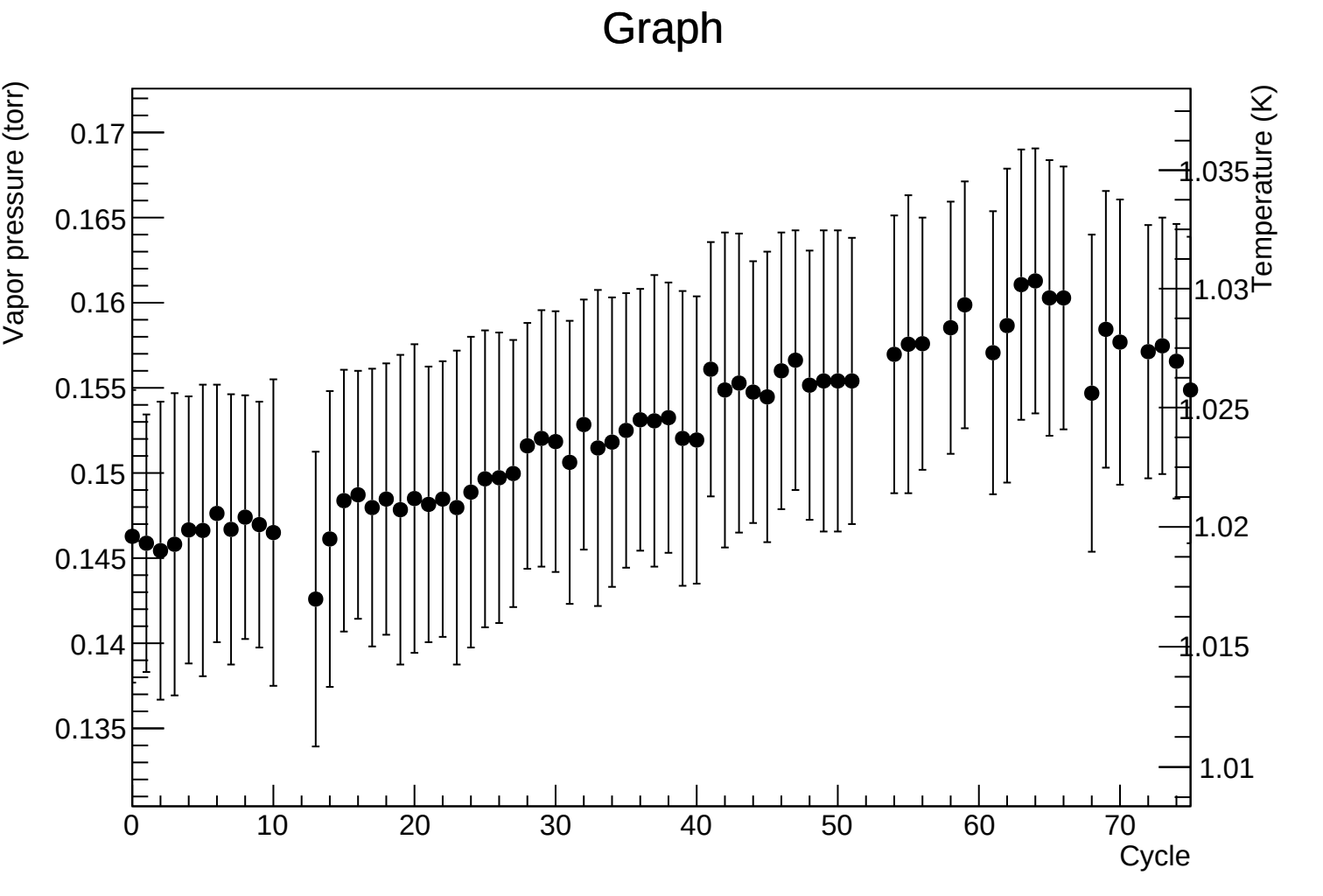
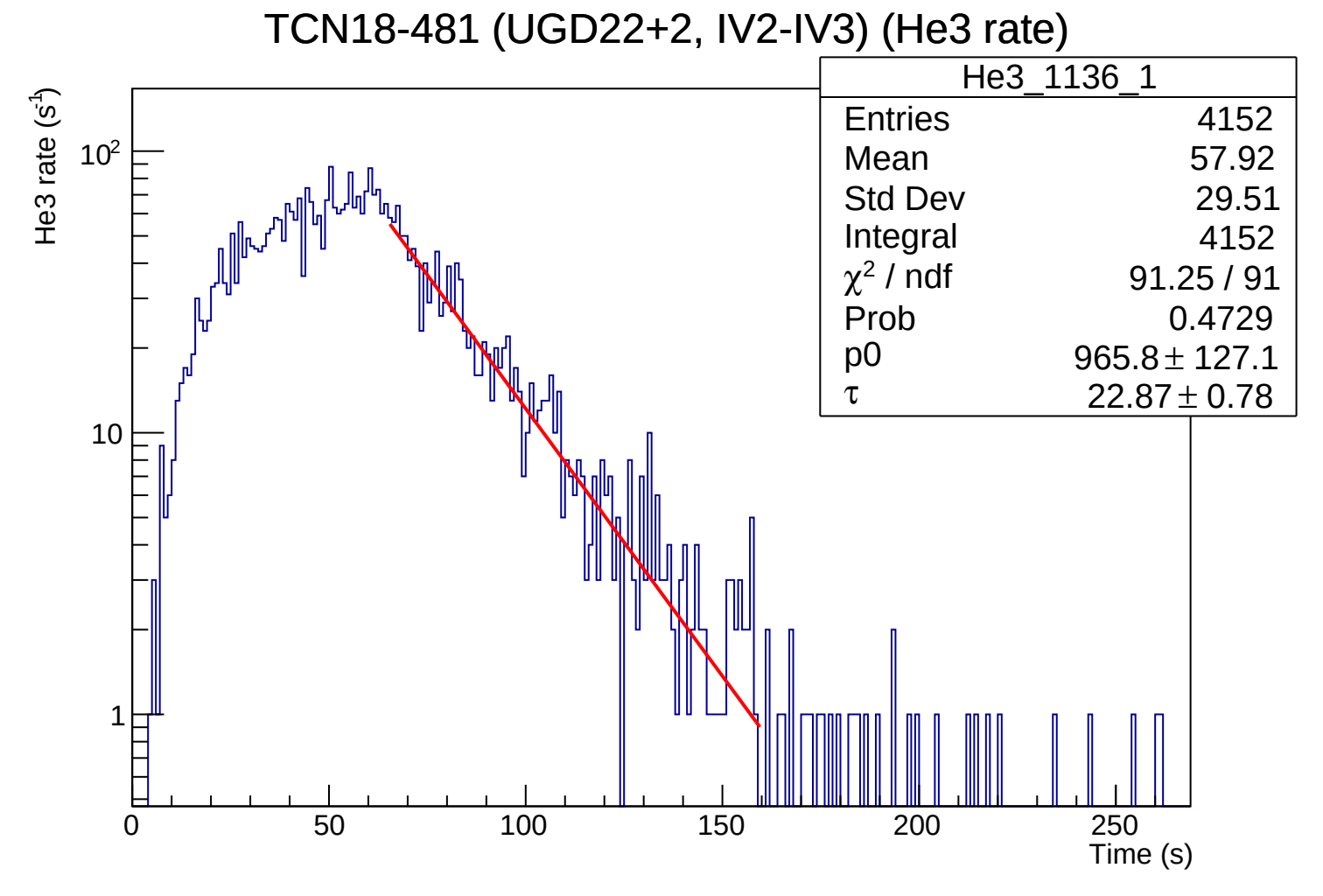
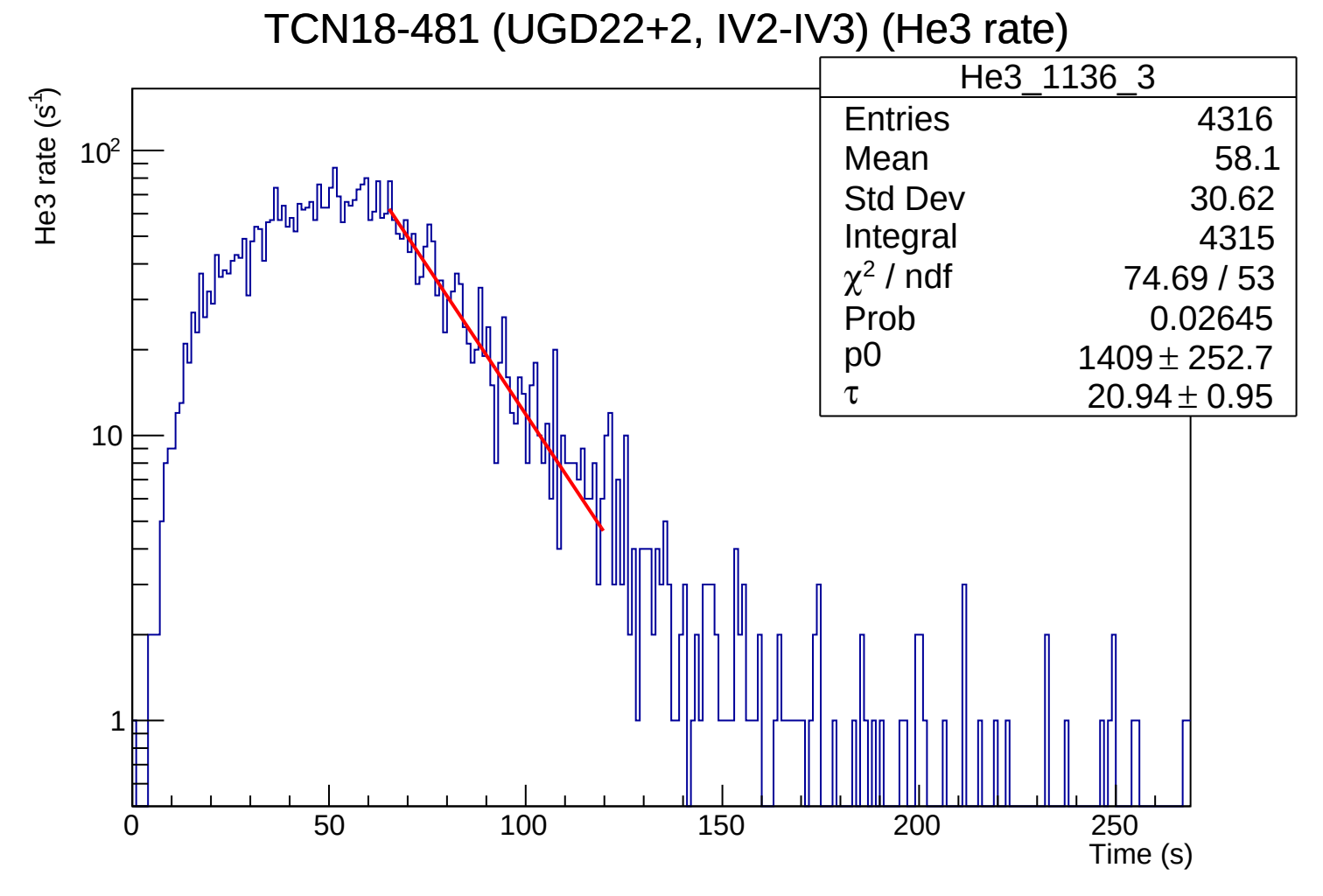
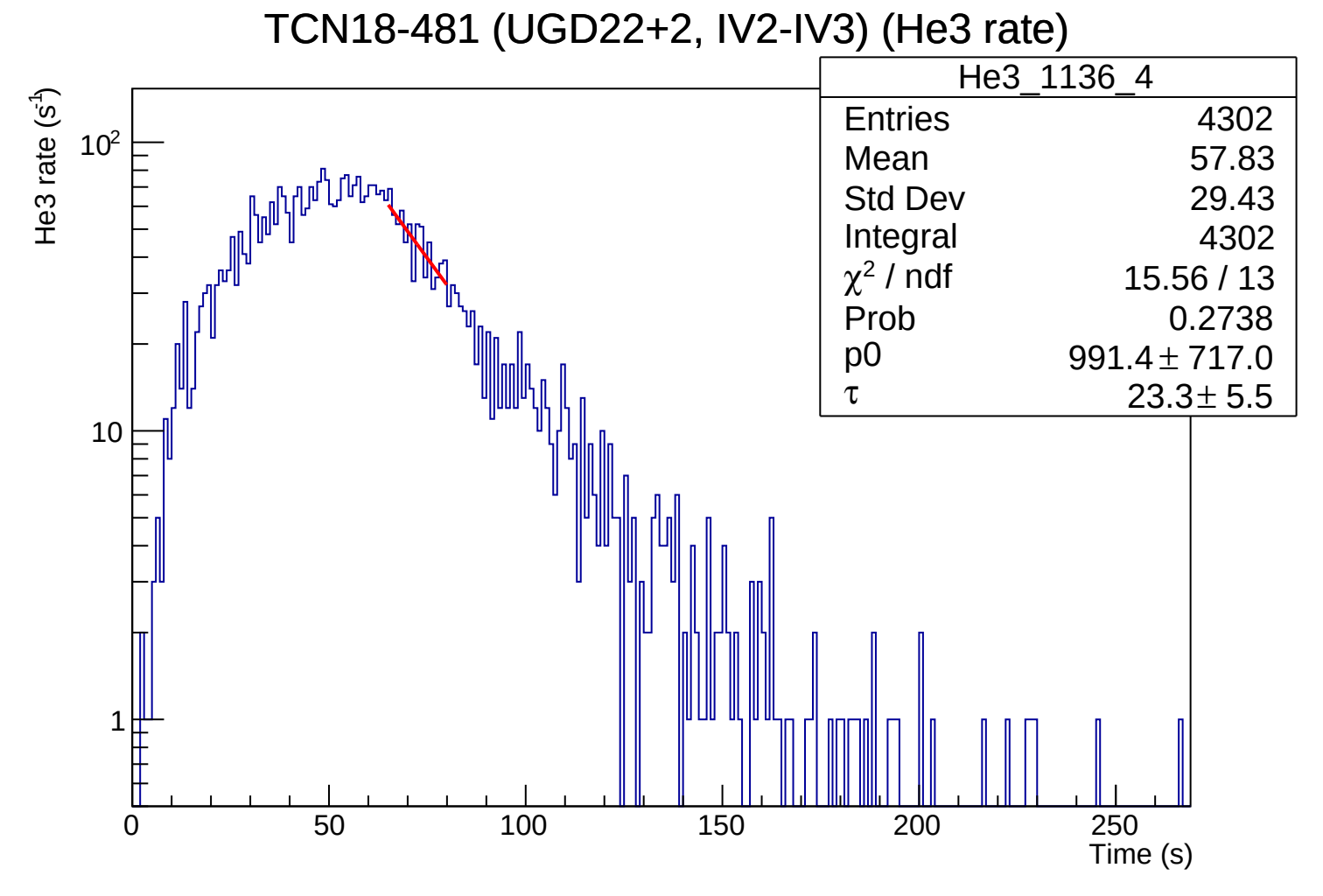

TCN18-481 (UGD22+2, IV2-IV3) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 137.9 / 56
Prob 7.415e–09
p0 5.9 ± 0.07202
τ 20.15 ± 0.2441
UCN-count-to-monitor ratio
1
10⁻¹
0
20
40
60
80
100
Storage time (s)

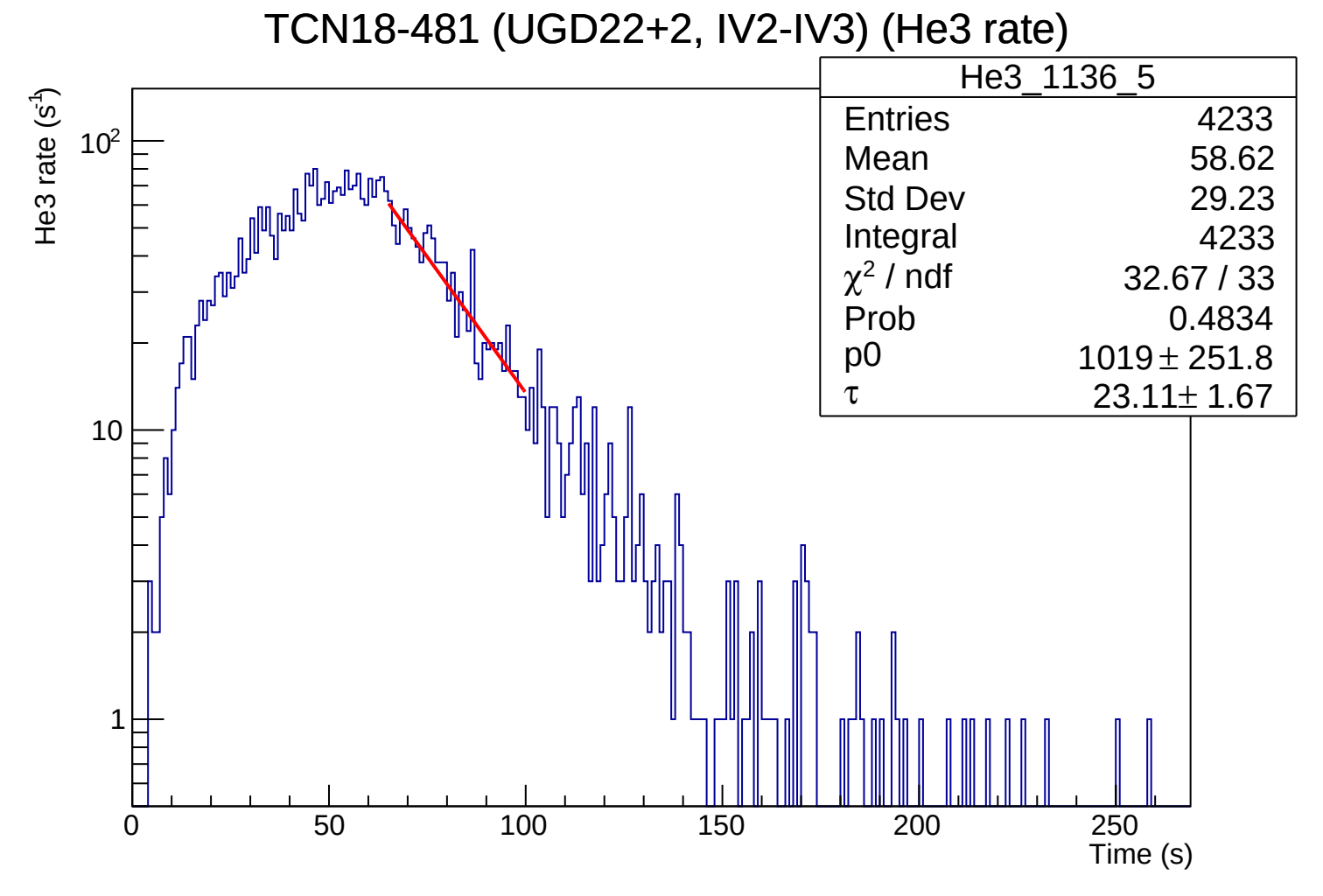

TCN18-481 (UGD22+2, IV2-IV3) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 36.05 / 54
Prob 0.9713
N1 5.3± 0.4024
τ1 13.82± 1.148
N2 1.322± 0.4723
τ2 38.99± 6.113
UCN-count-to-monitor ratio
1
10⁻¹
0
20
40
60
80
100
Storage time (s)

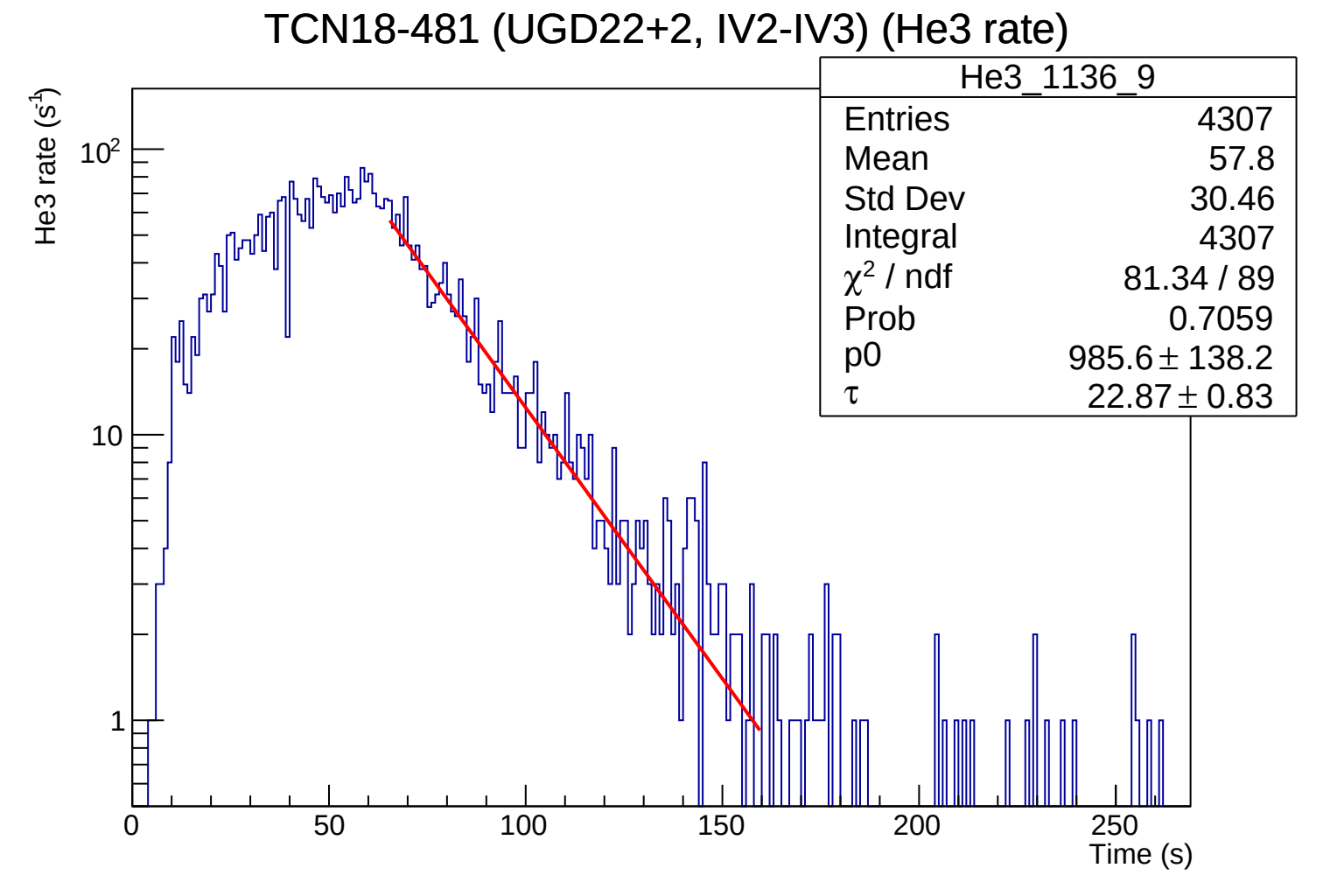

Graph
Vapor pressure (torr)
0.17
0.165
0.16
0.155
0.15
0.145
0.14
0.135
Temperature (K)
1.035
1.03
1.025
1.02
1.015
1.01
0
10
20
30
40
50
60
70
Cycle

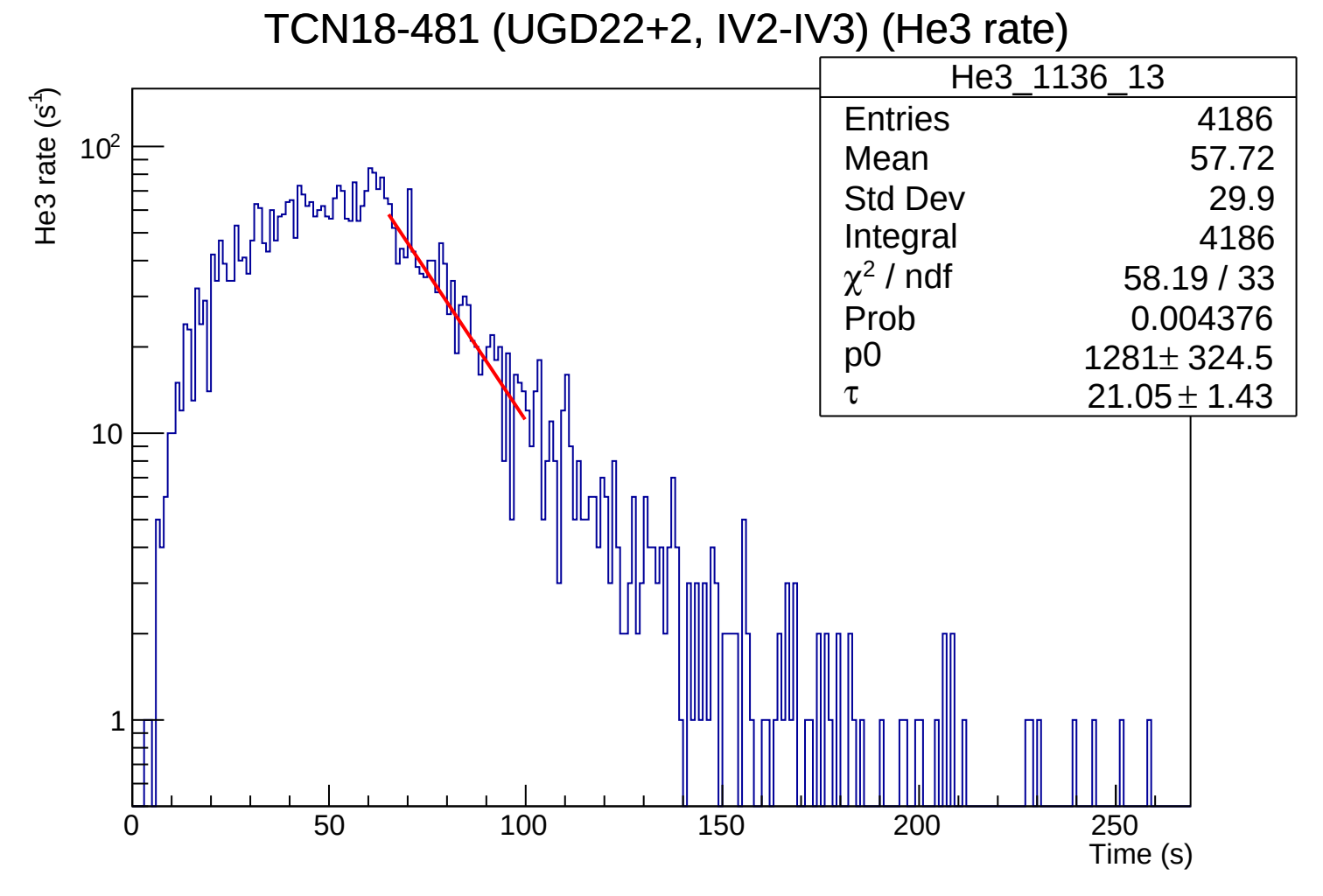

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_1
Entries 4152
Mean 57.92
Std Dev 29.51
Integral 4152
χ² / ndf 91.25 / 91
Prob 0.4729
p0 965.8 ± 127.1
τ 22.87 ± 0.78
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

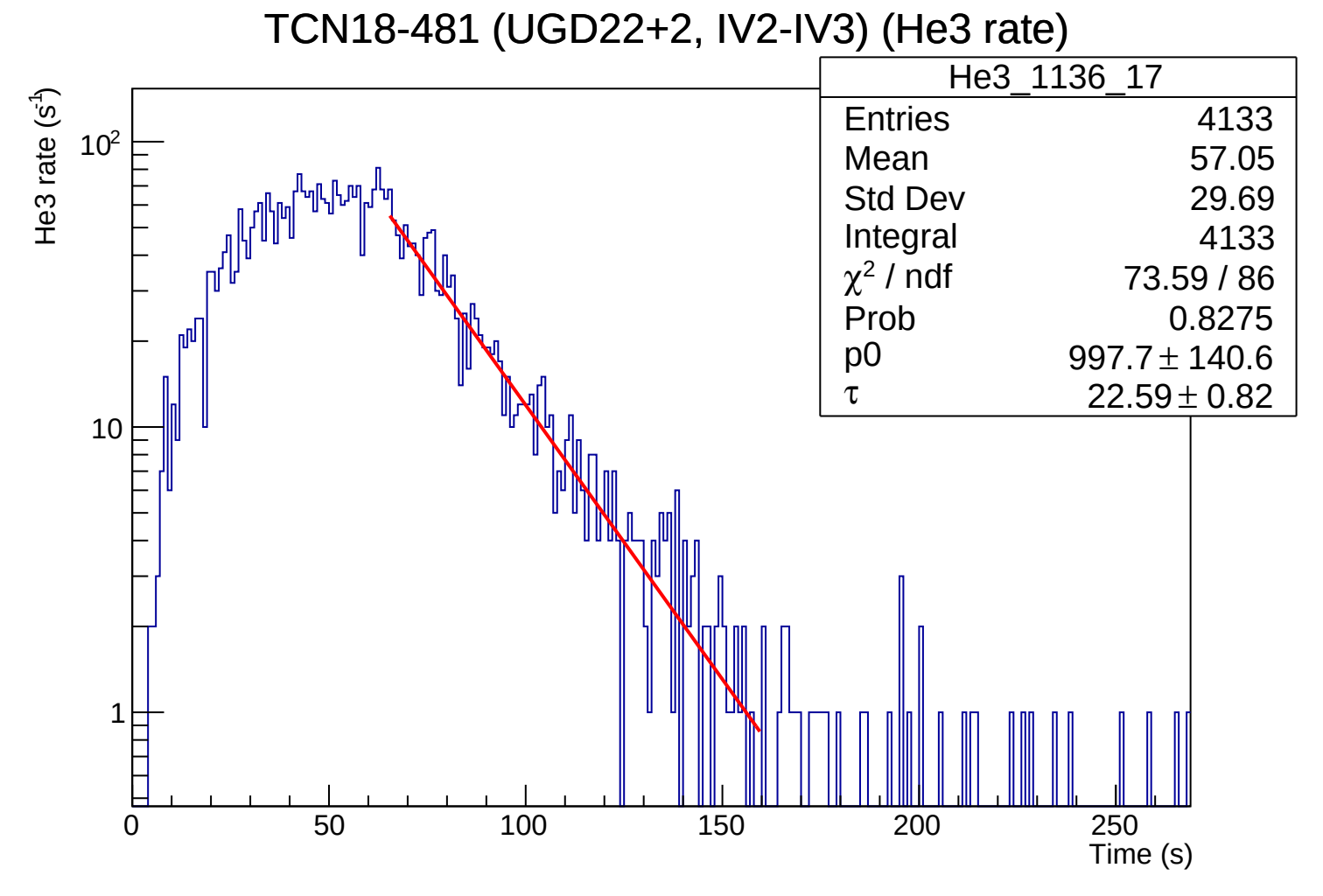

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_3
Entries 4316
Mean 58.1
Std Dev 30.62
Integral 4315
χ² / ndf 74.69 / 53
Prob 0.02645
p0 1409 ± 252.7
τ 20.94 ± 0.95
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

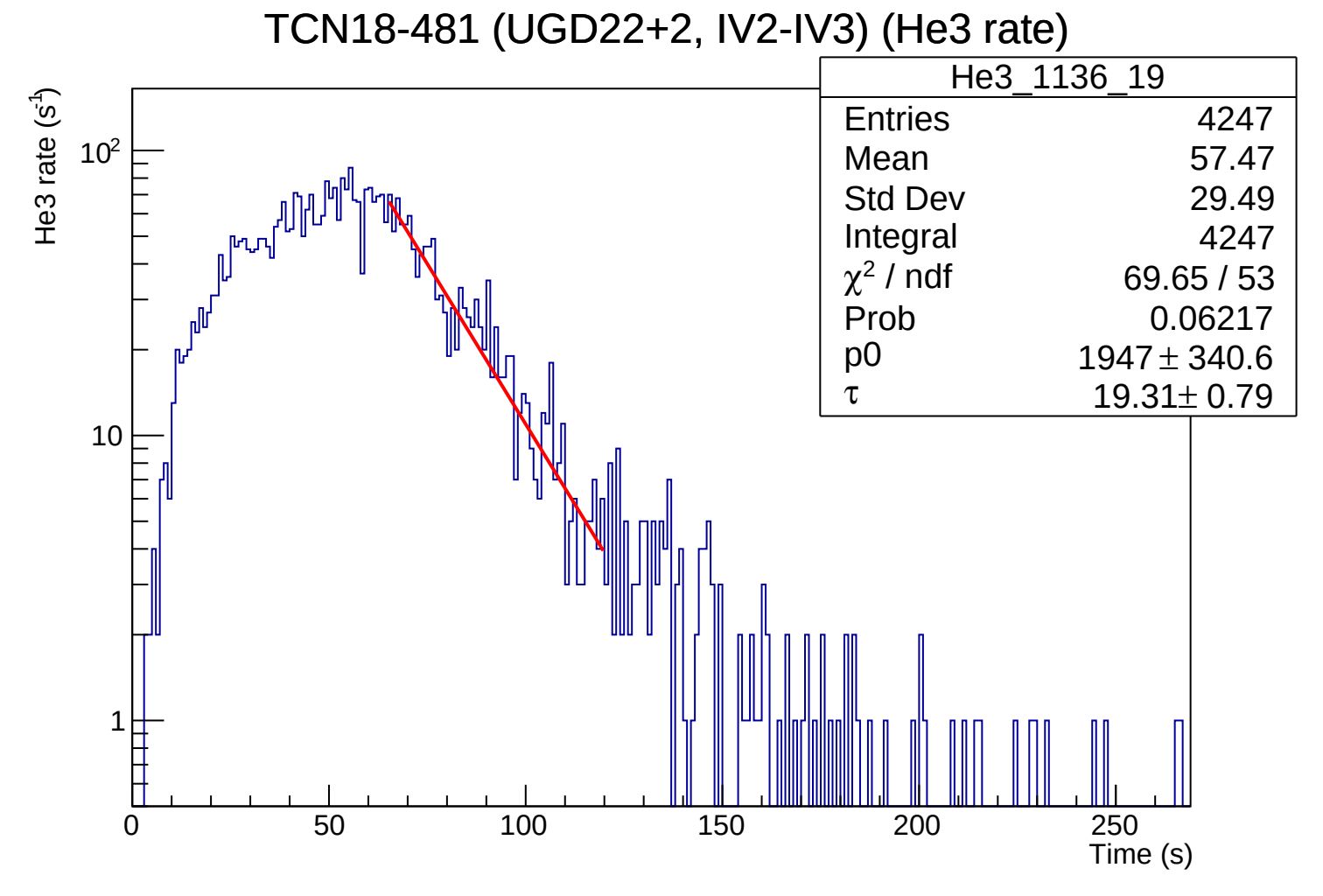

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_4
Entries 4302
Mean 57.83
Std Dev 29.43
Integral 4302
χ² / ndf 15.56 / 13
Prob 0.2738
p0 991.4 ± 717.0
τ 23.3 ± 5.5
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

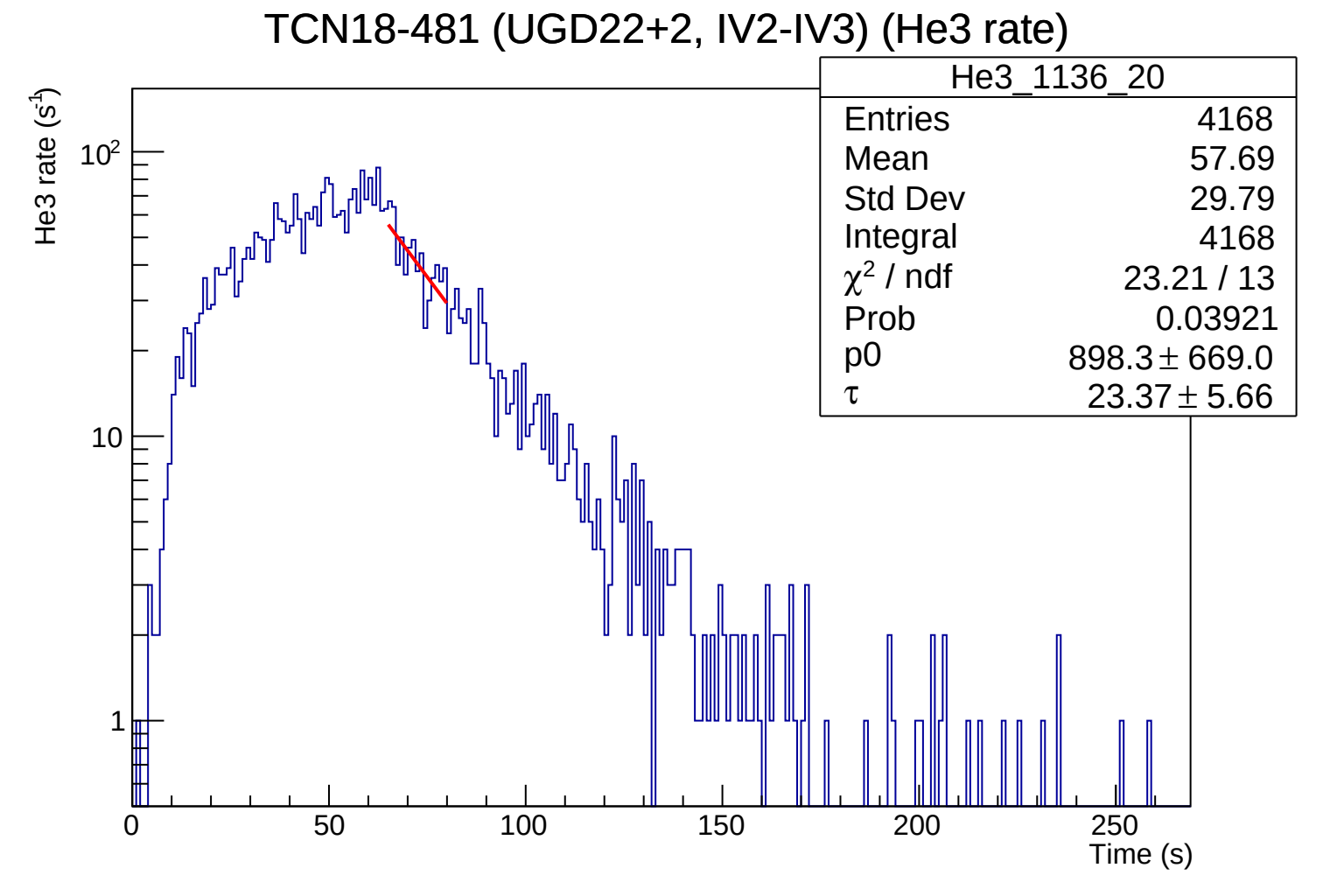

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_5
Entries 4233
Mean 58.62
Std Dev 29.23
Integral 4233
χ² / ndf 32.67 / 33
Prob 0.4834
p0 1019 ± 251.8
τ 23.11 ± 1.67
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

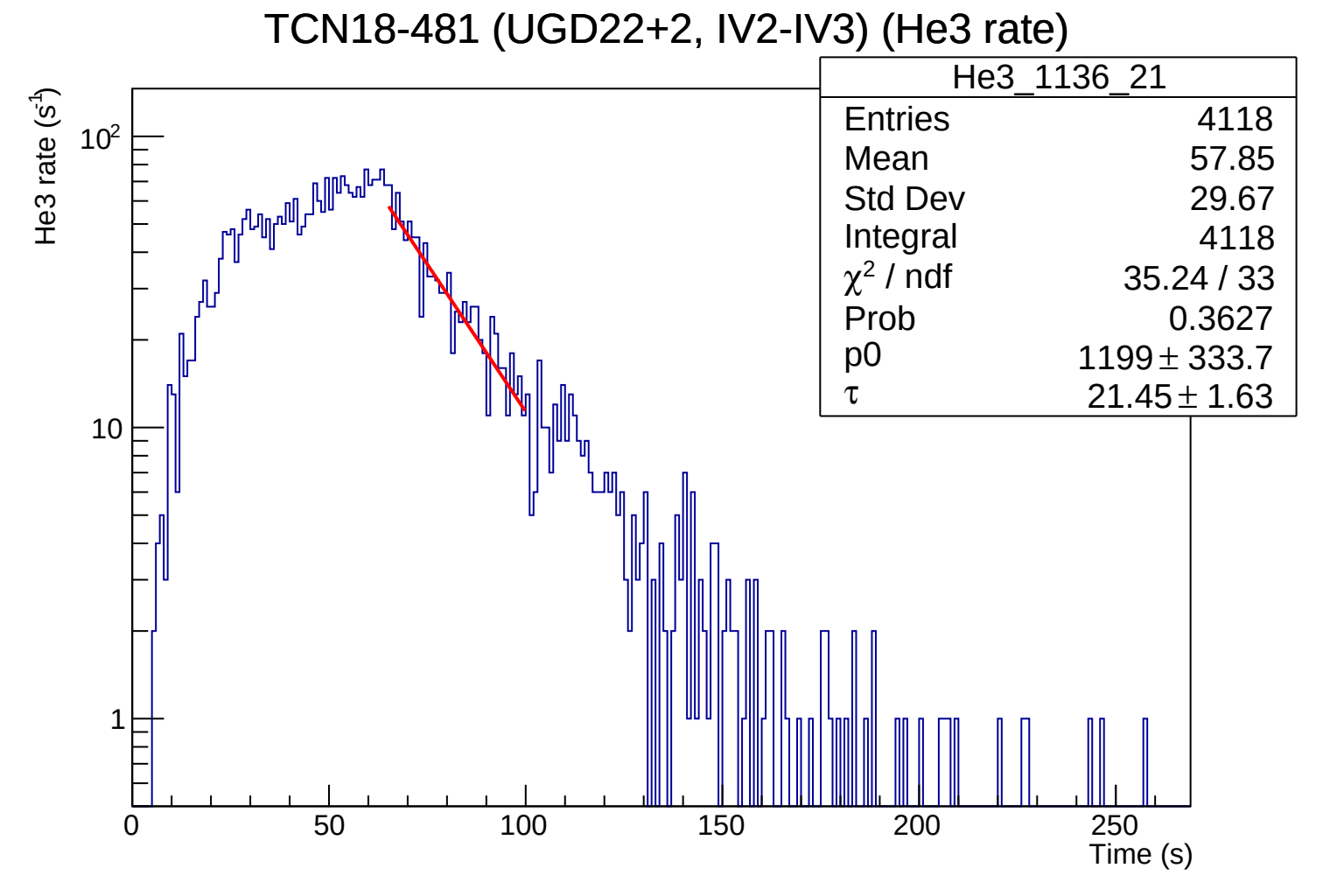

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_9
Entries 4307
Mean 57.8
Std Dev 30.46
Integral 4307
χ² / ndf 81.34 / 89
Prob 0.7059
p0 985.6 ± 138.2
τ 22.87 ± 0.83
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

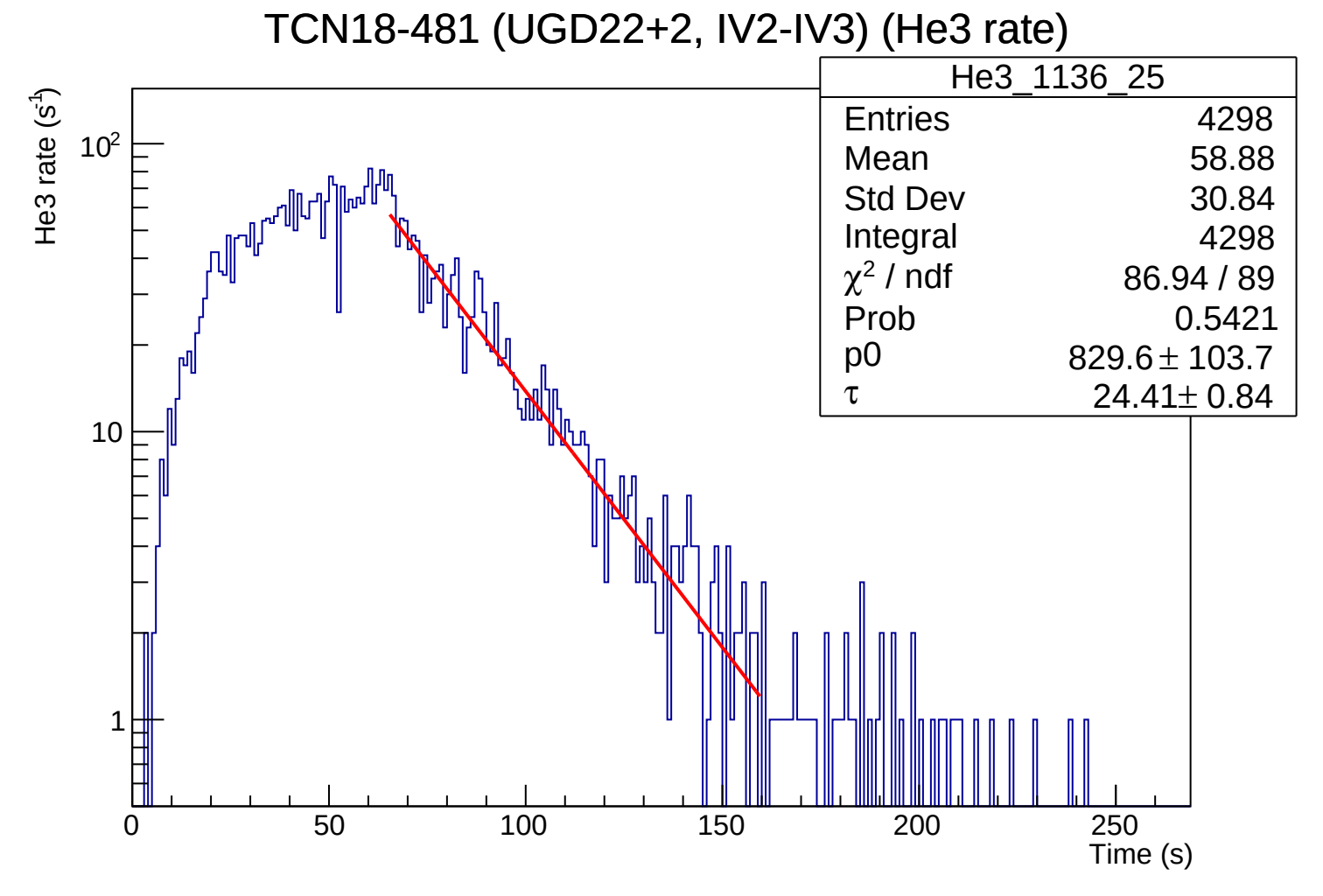

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_13
Entries 4186
Mean 57.72
Std Dev 29.9
Integral 4186
χ² / ndf 58.19 / 33
Prob 0.004376
p0 1281± 324.5
τ 21.05 ± 1.43
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

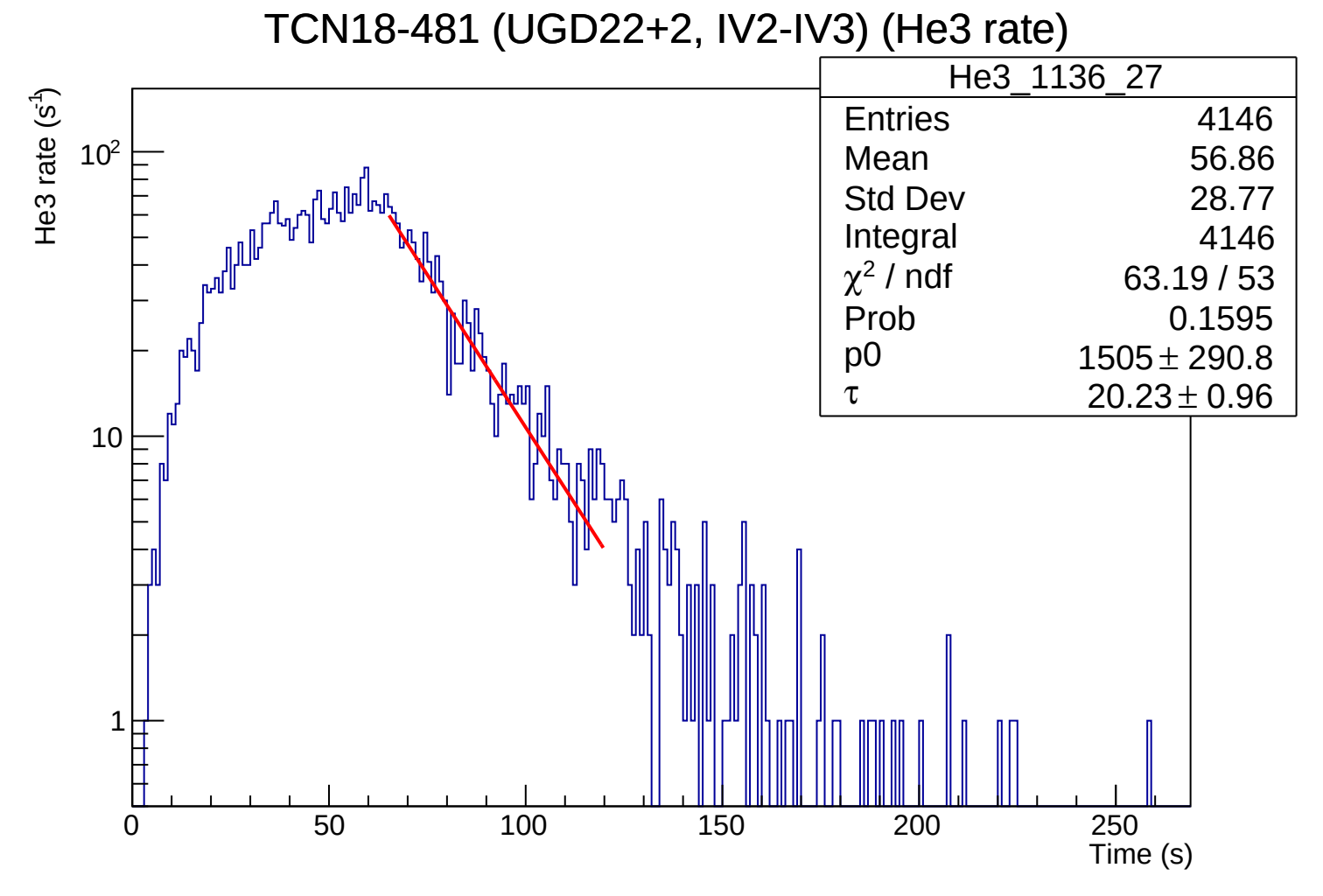

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_17
Entries 4133
Mean 57.05
Std Dev 29.69
Integral 4133
χ² / ndf 73.59 / 86
Prob 0.8275
p0 997.7 ± 140.6
τ 22.59 ± 0.82
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

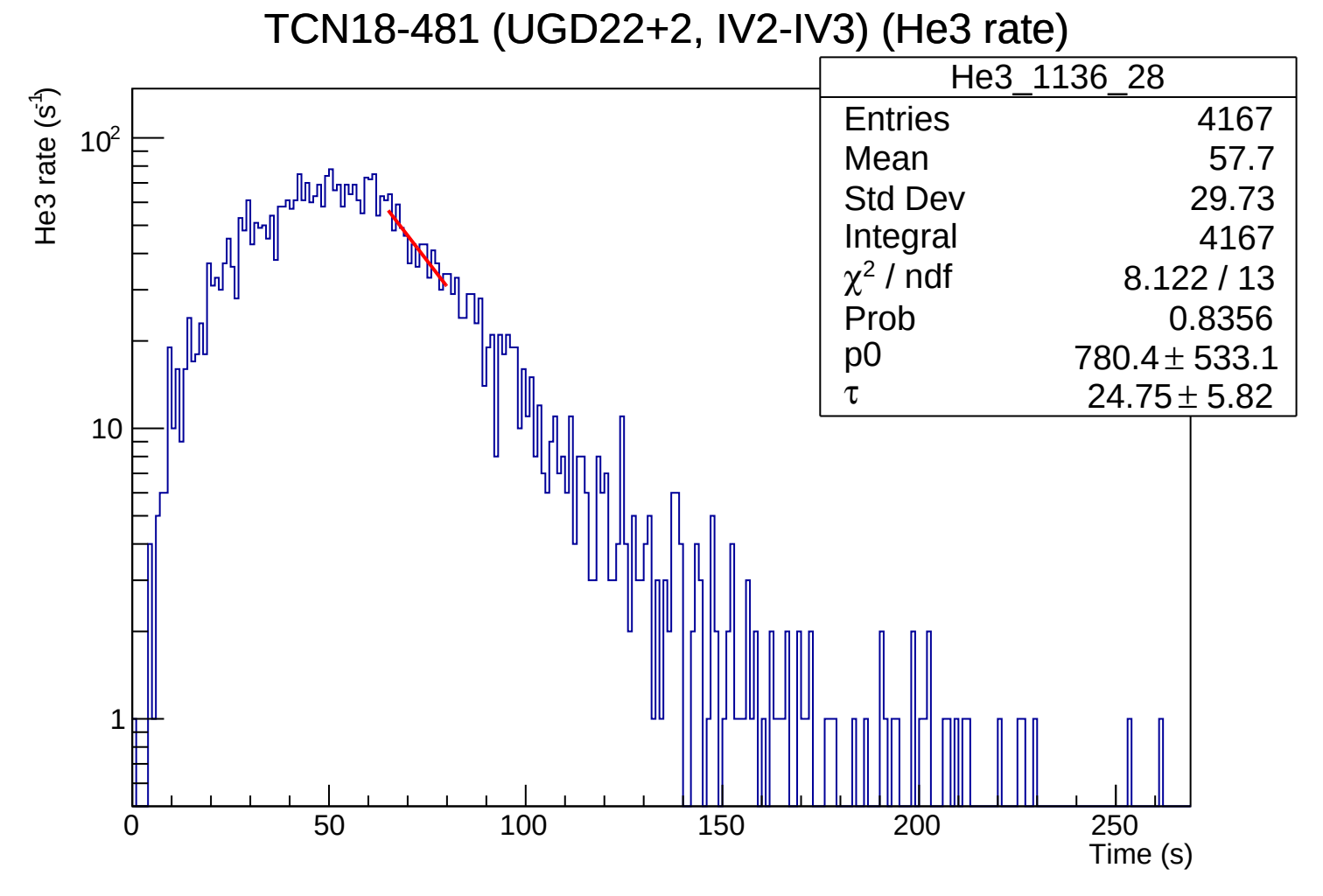

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_19
Entries 4247
Mean 57.47
Std Dev 29.49
Integral 4247
χ² / ndf 69.65 / 53
Prob 0.06217
p0 1947 ± 340.6
τ 19.31 ± 0.79
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

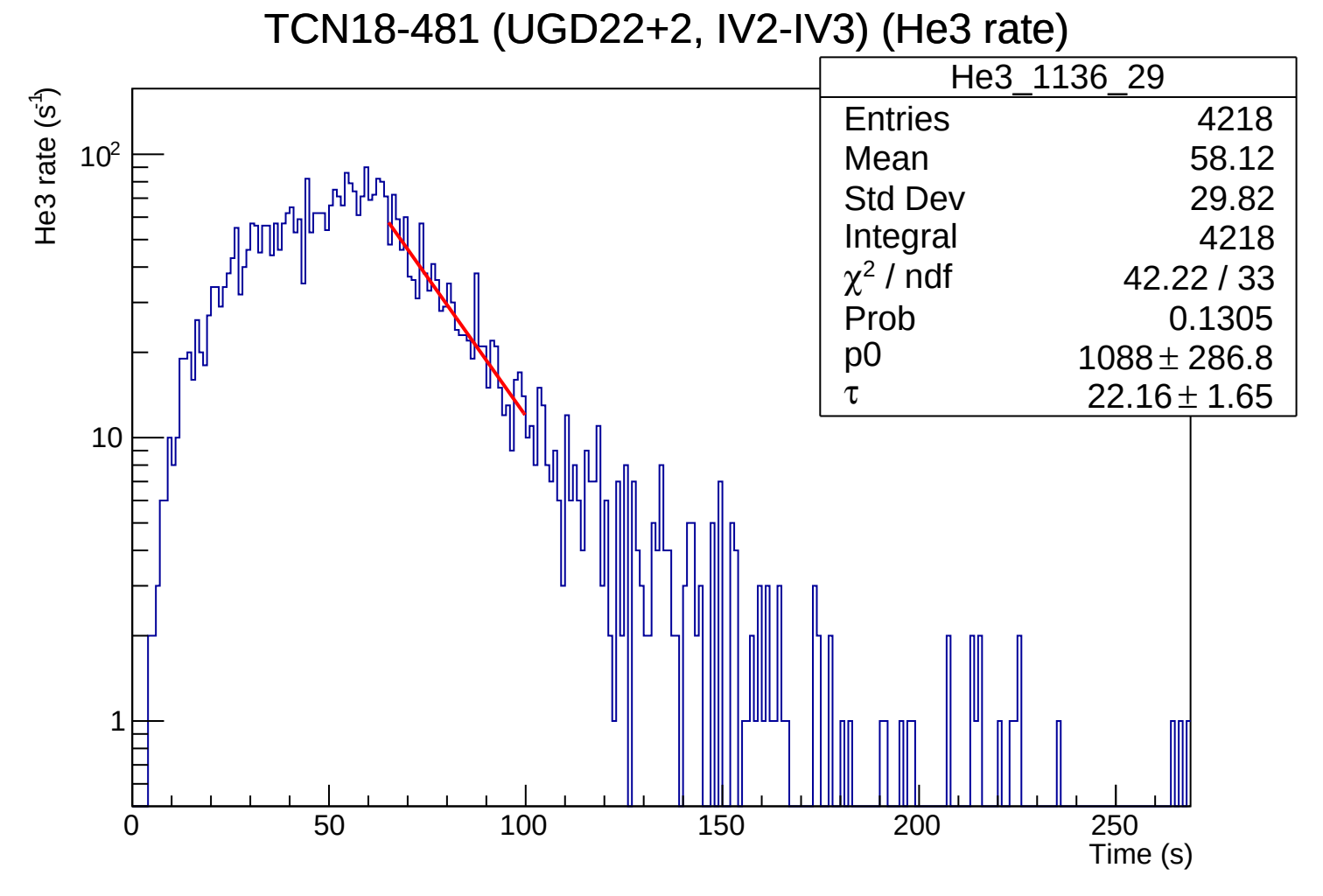

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_20
Entries 4168
Mean 57.69
Std Dev 29.79
Integral 4168
χ² / ndf 23.21 / 13
Prob 0.03921
p0 898.3 ± 669.0
τ 23.37 ± 5.66
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

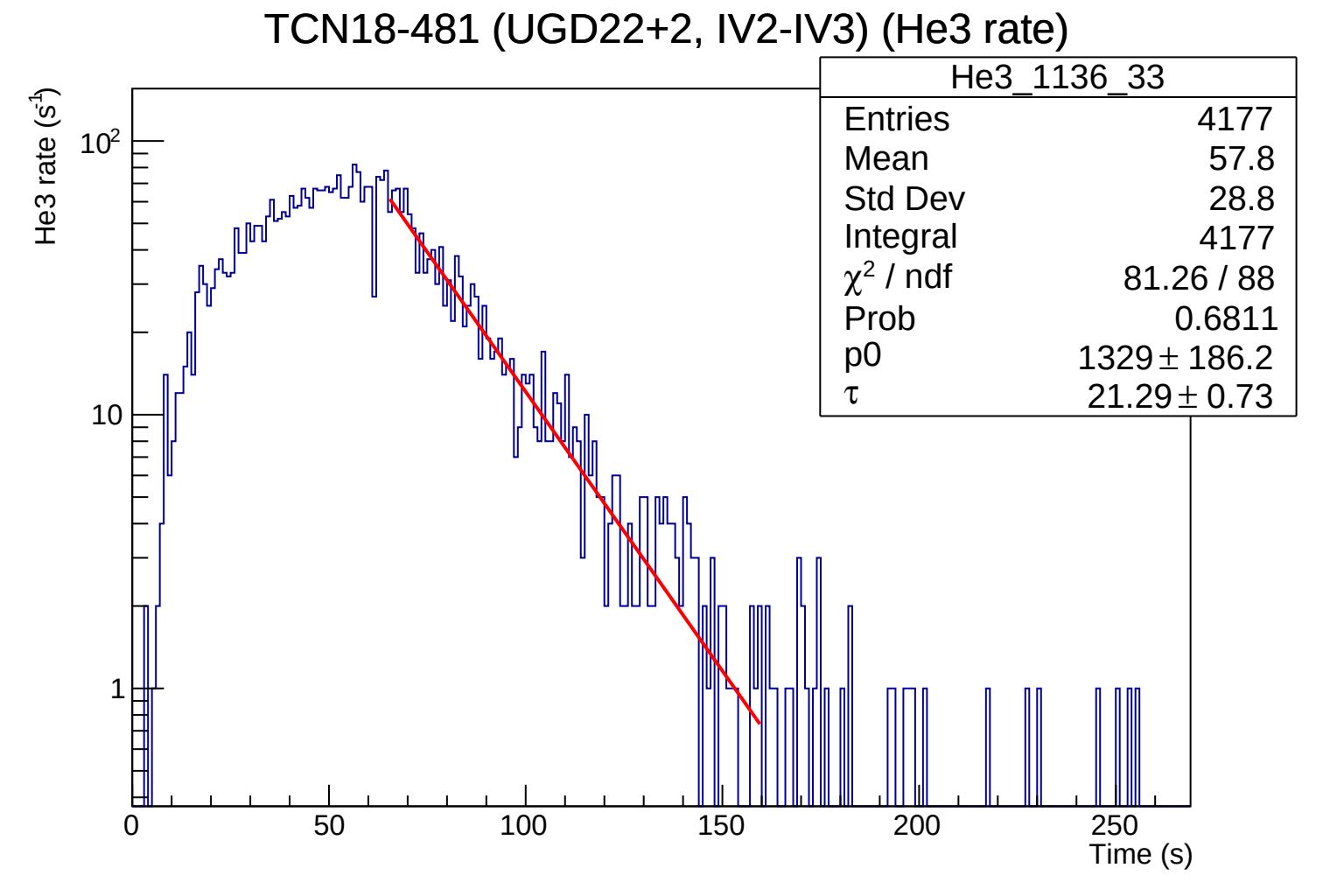

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_21
Entries 4118
Mean 57.85
Std Dev 29.67
Integral 4118
χ² / ndf 35.24 / 33
Prob 0.3627
p0 1199 ± 333.7
τ 21.45 ± 1.63
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

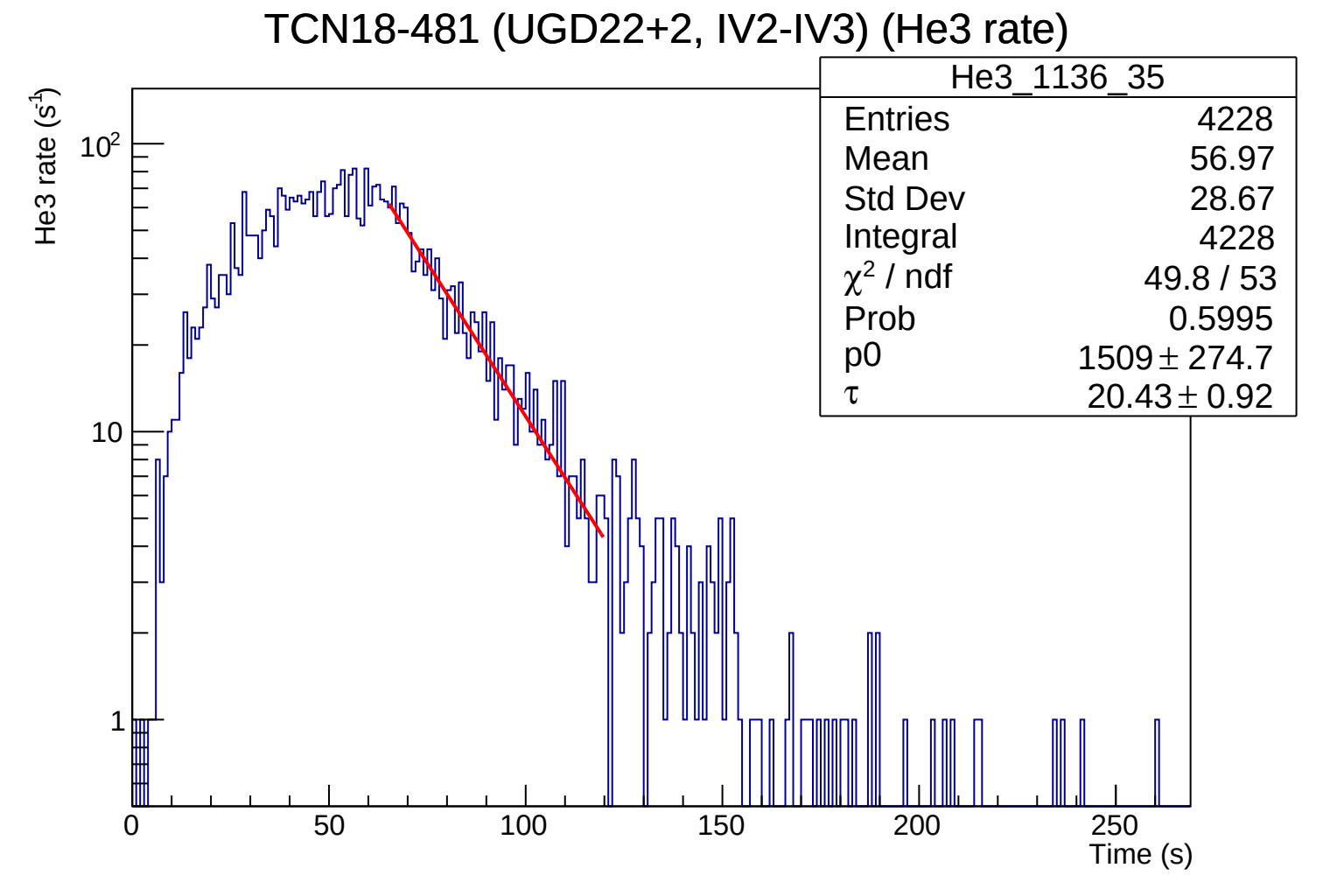

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_25
Entries 4298
Mean 58.88
Std Dev 30.84
Integral 4298
χ² / ndf 86.94 / 89
Prob 0.5421
p0 829.6 ± 103.7
τ 24.41 ± 0.84
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

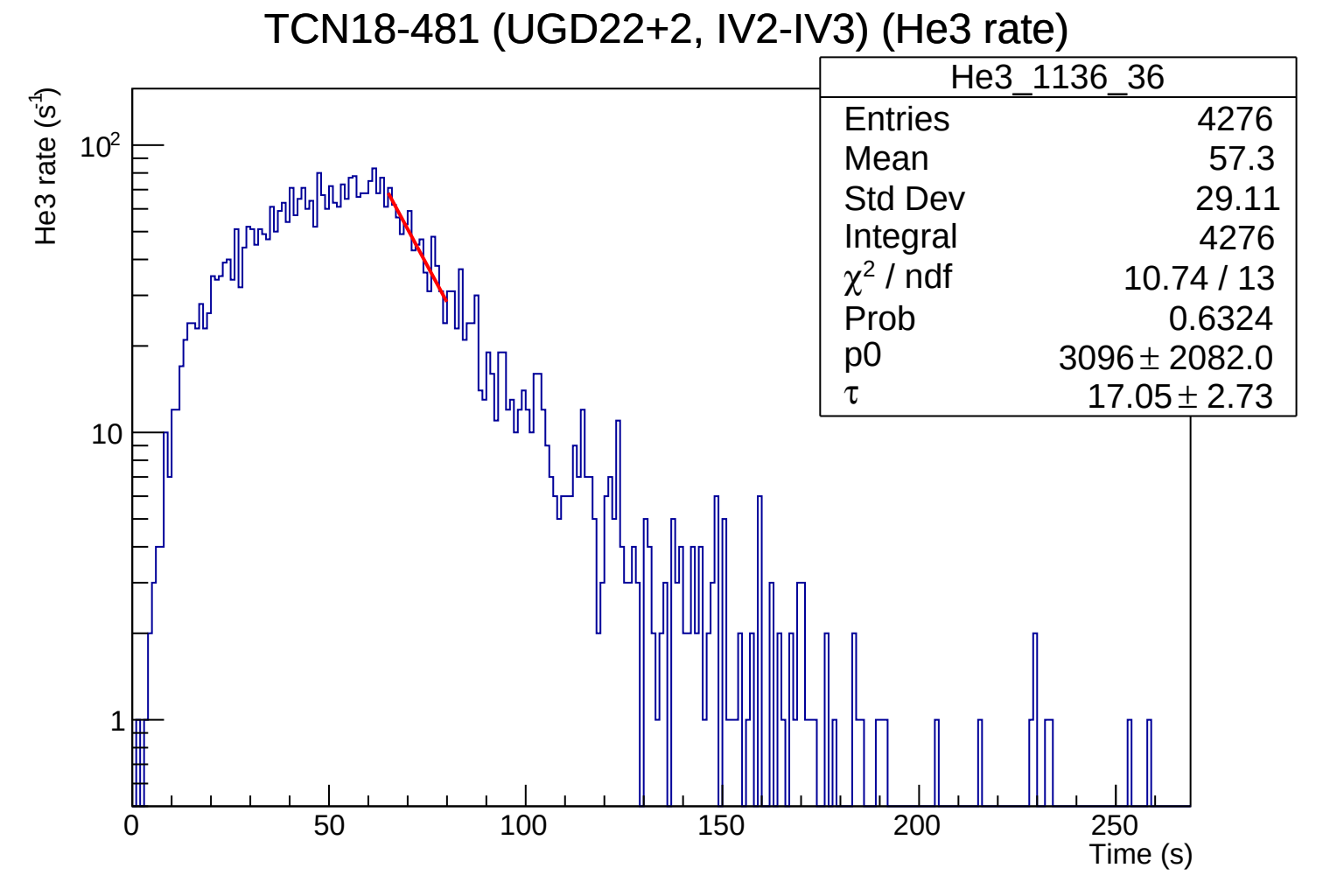

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_27
Entries 4146
Mean 56.86
Std Dev 28.77
Integral 4146
χ² / ndf 63.19 / 53
Prob 0.1595
p0 1505 ± 290.8
τ 20.23 ± 0.96
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

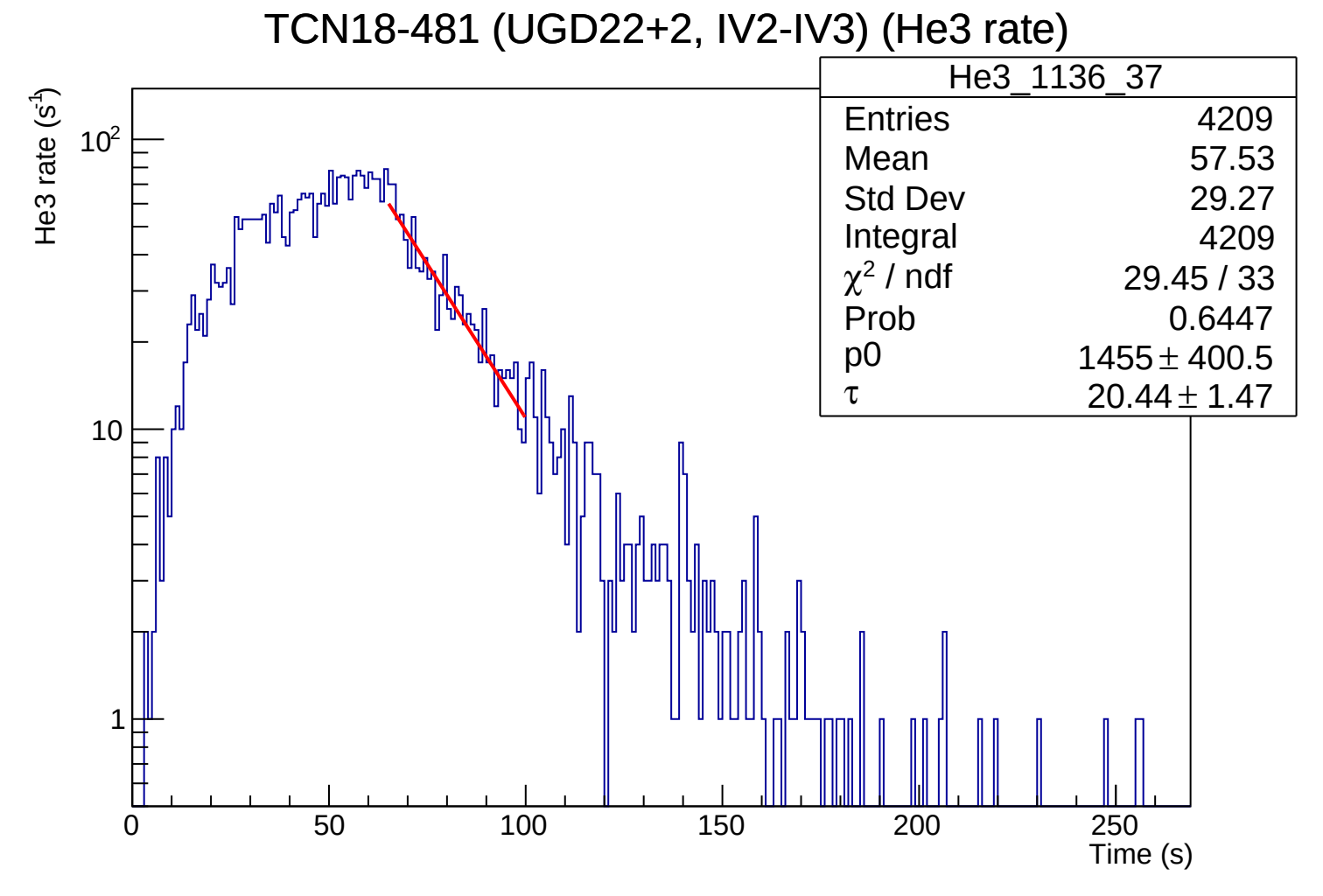

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_28
Entries 4167
Mean 57.7
Std Dev 29.73
Integral 4167
χ² / ndf 8.122 / 13
Prob 0.8356
p0 780.4 ± 533.1
τ 24.75 ± 5.82
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

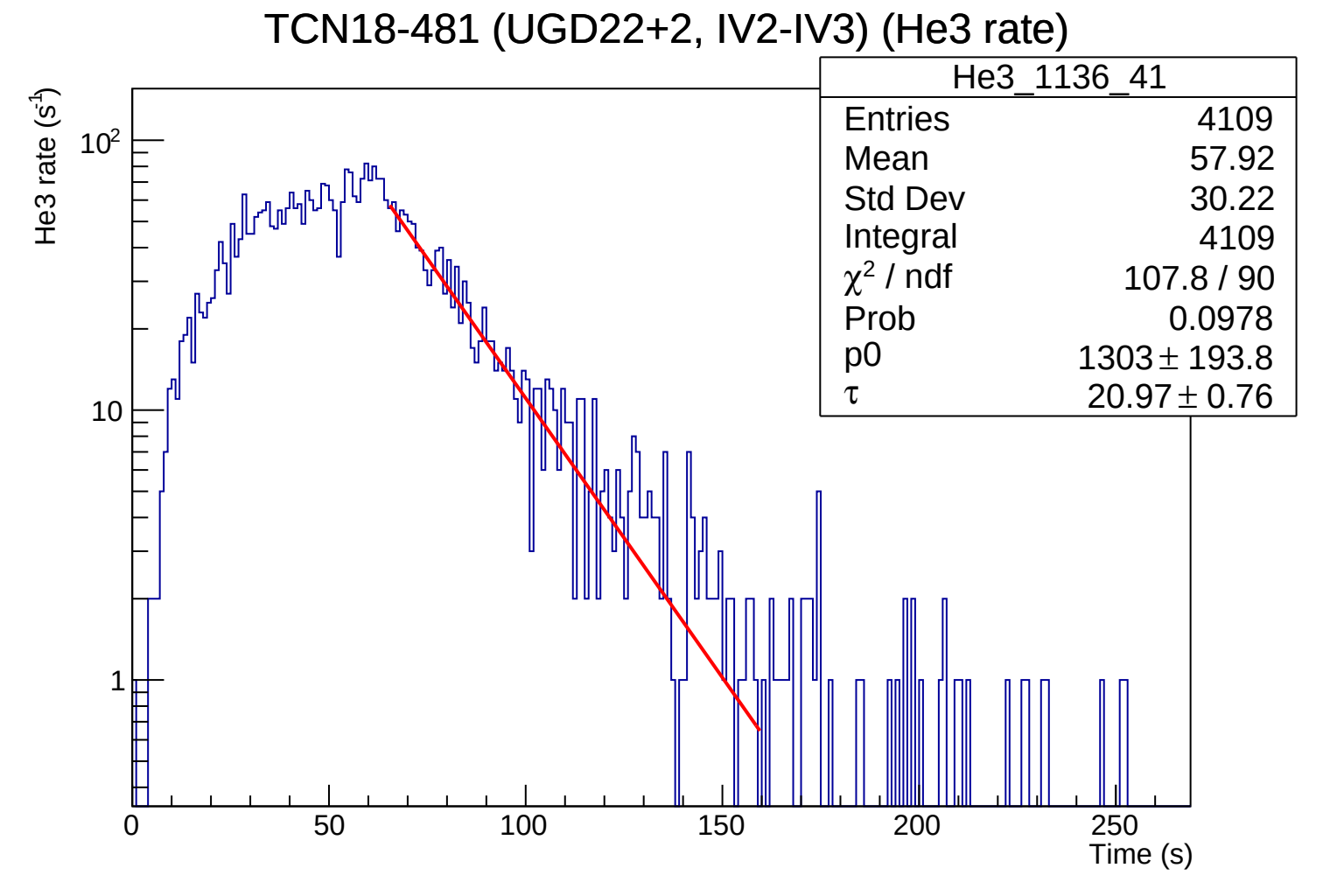

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_29
Entries 4218
Mean 58.12
Std Dev 29.82
Integral 4218
χ² / ndf 42.22 / 33
Prob 0.1305
p0 1088 ± 286.8
τ 22.16 ± 1.65
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

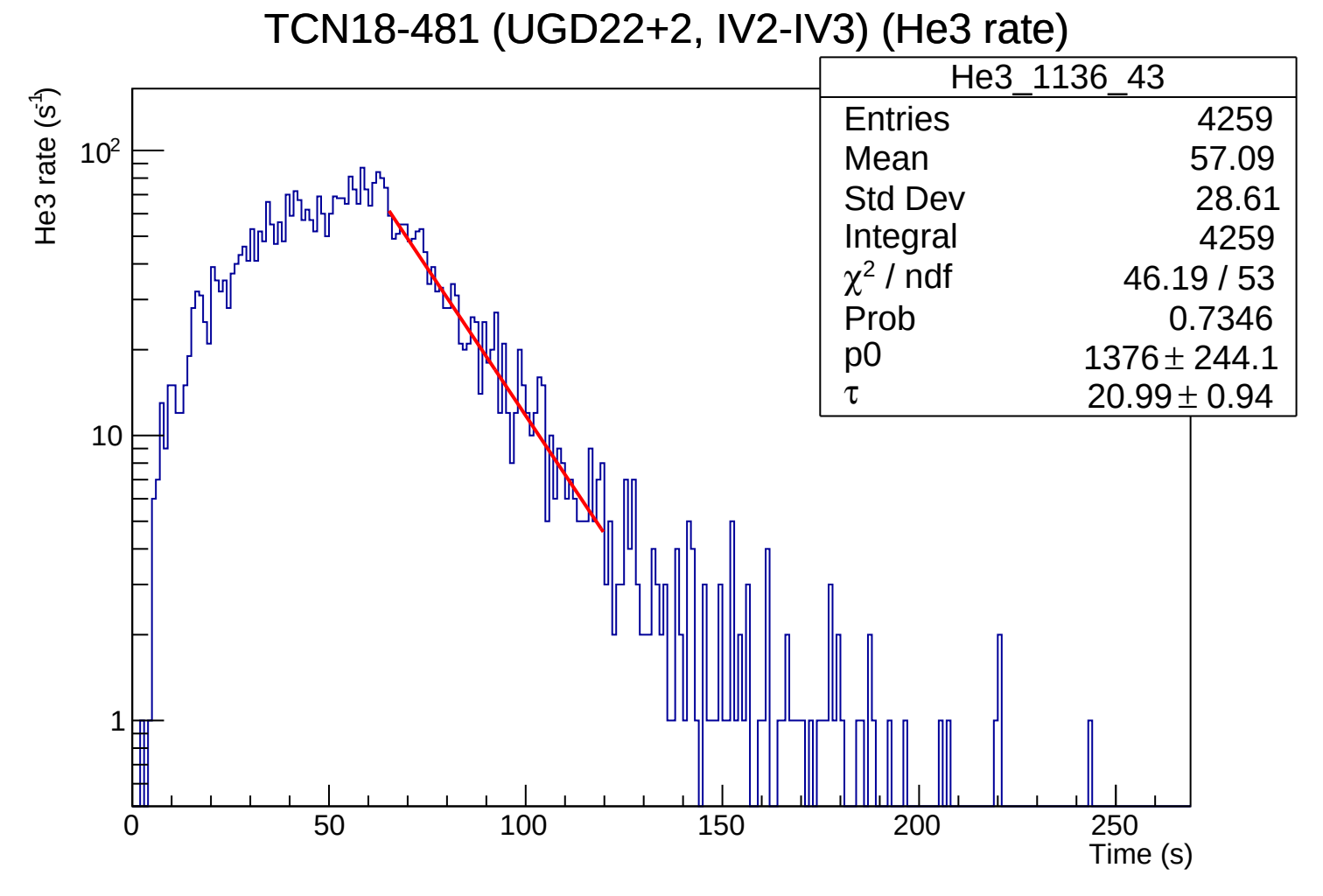

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_33
Entries 4177
Mean 57.8
Std Dev 28.8
Integral 4177
χ² / ndf 81.26 / 88
Prob 0.6811
p0 1329 ± 186.2
τ 21.29 ± 0.73
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

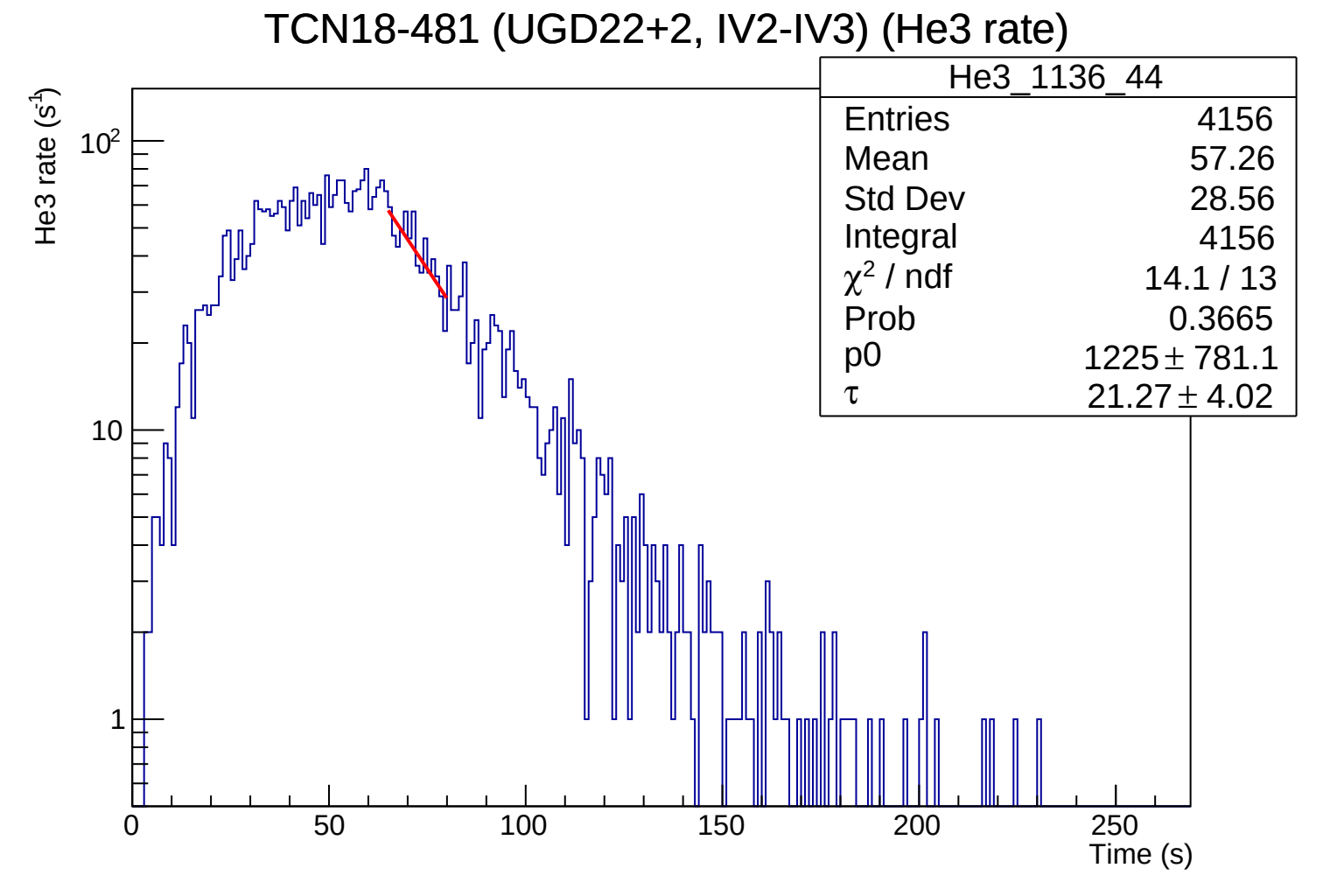

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_35
Entries 4228
Mean 56.97
Std Dev 28.67
Integral 4228
χ² / ndf 49.8 / 53
Prob 0.5995
p0 1509 ± 274.7
τ 20.43 ± 0.92
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

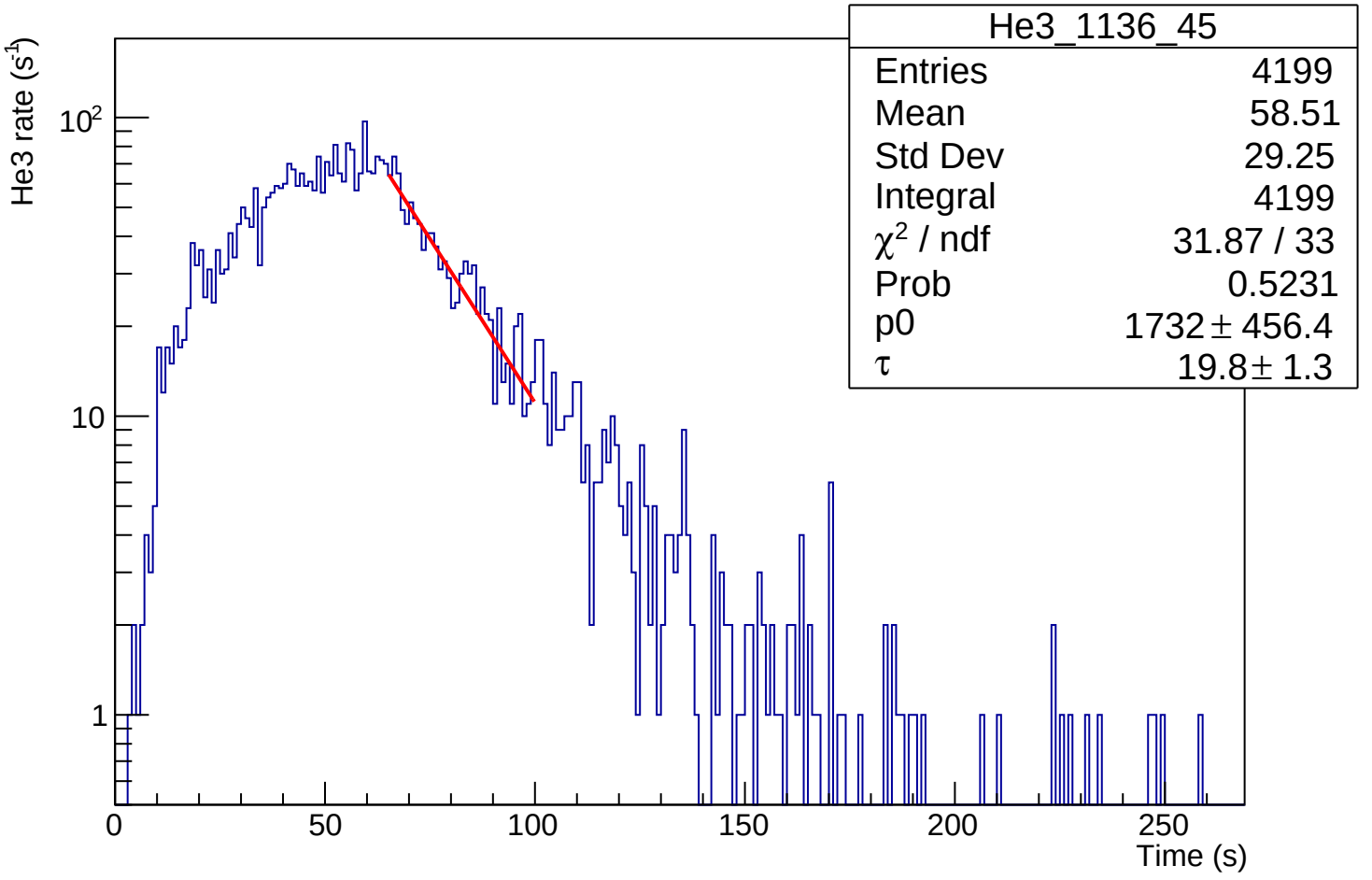

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_36
Entries 4276
Mean 57.3
Std Dev 29.11
Integral 4276
χ² / ndf 10.74 / 13
Prob 0.6324
p0 3096 ± 2082.0
τ 17.05 ± 2.73
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

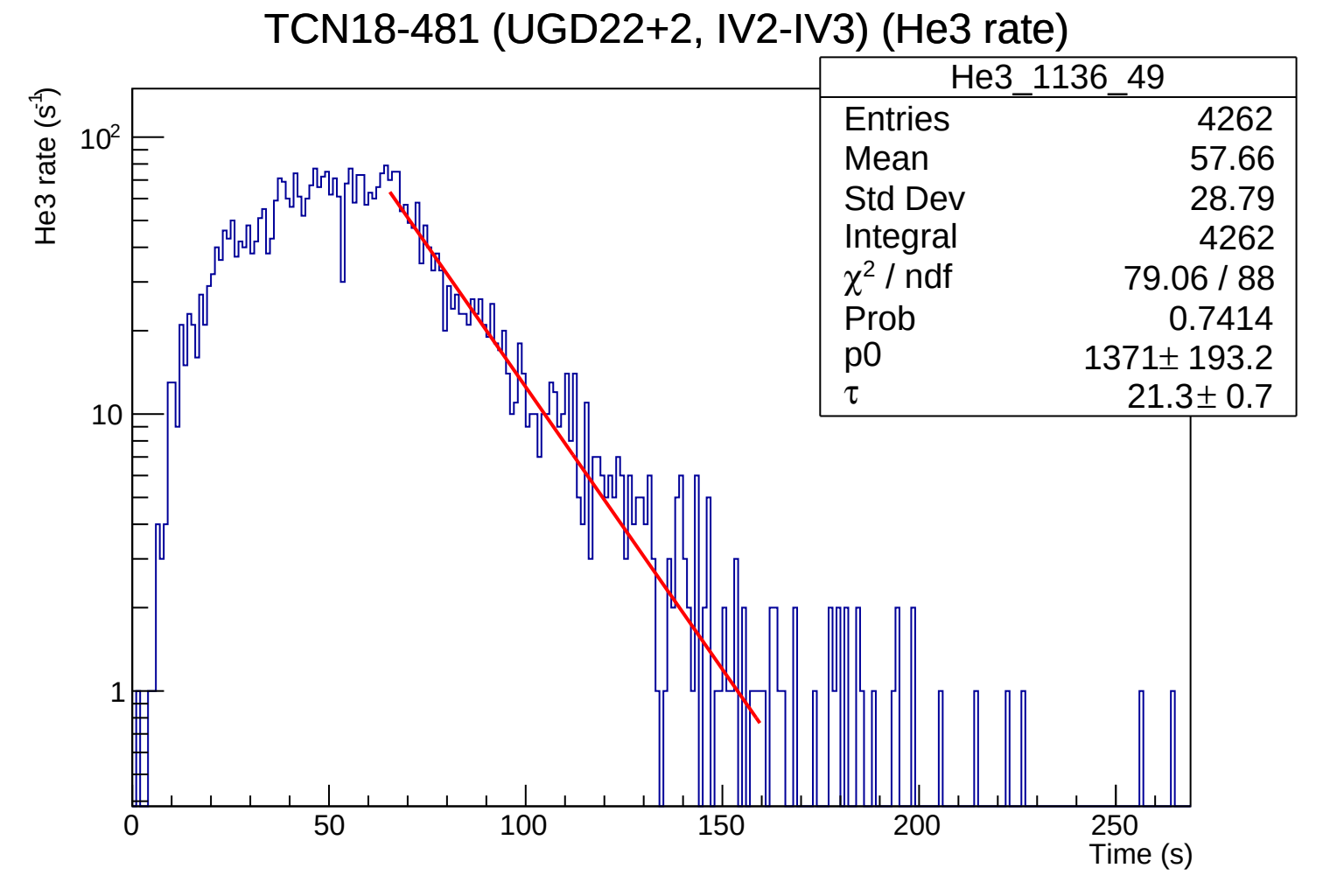

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_37
Entries 4209
Mean 57.53
Std Dev 29.27
Integral 4209
χ² / ndf 29.45 / 33
Prob 0.6447
p0 1455 ± 400.5
τ 20.44 ± 1.47
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

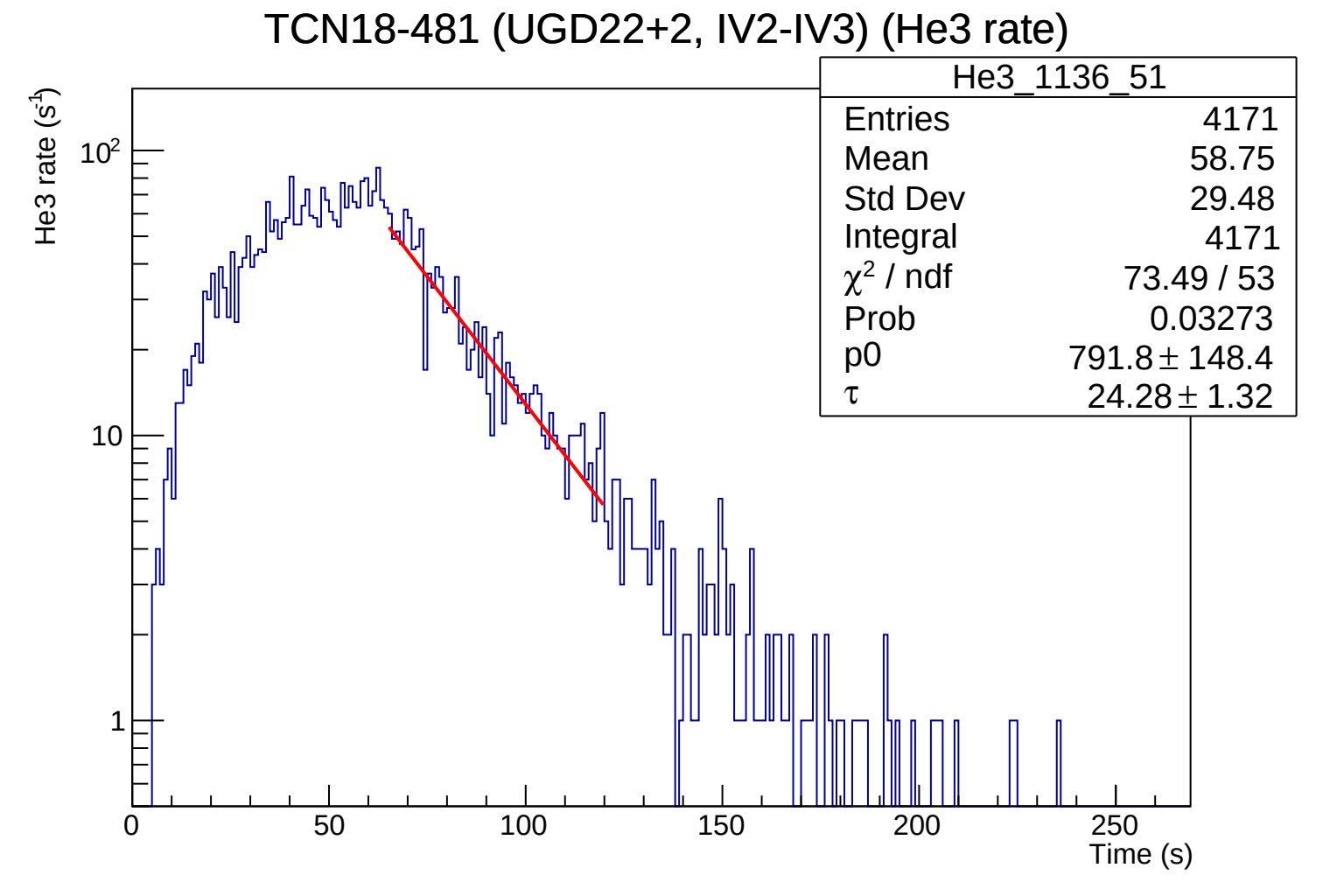

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_41
Entries 4109
Mean 57.92
Std Dev 30.22
Integral 4109
χ² / ndf 107.8 / 90
Prob 0.0978
p0 1303 ± 193.8
τ 20.97 ± 0.76
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

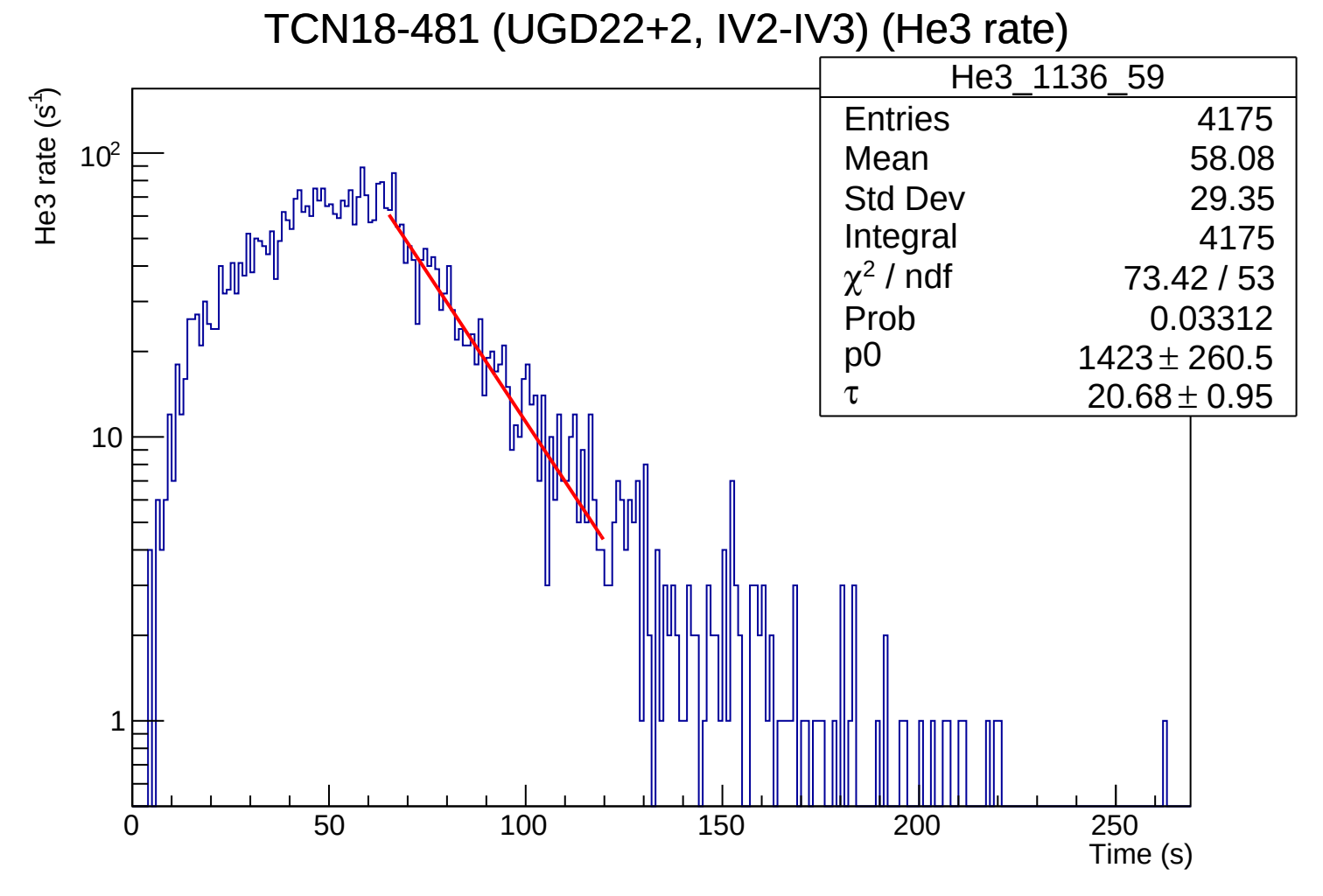

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_43
Entries 4259
Mean 57.09
Std Dev 28.61
Integral 4259
χ² / ndf 46.19 / 53
Prob 0.7346
p0 1376 ± 244.1
τ 20.99 ± 0.94
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

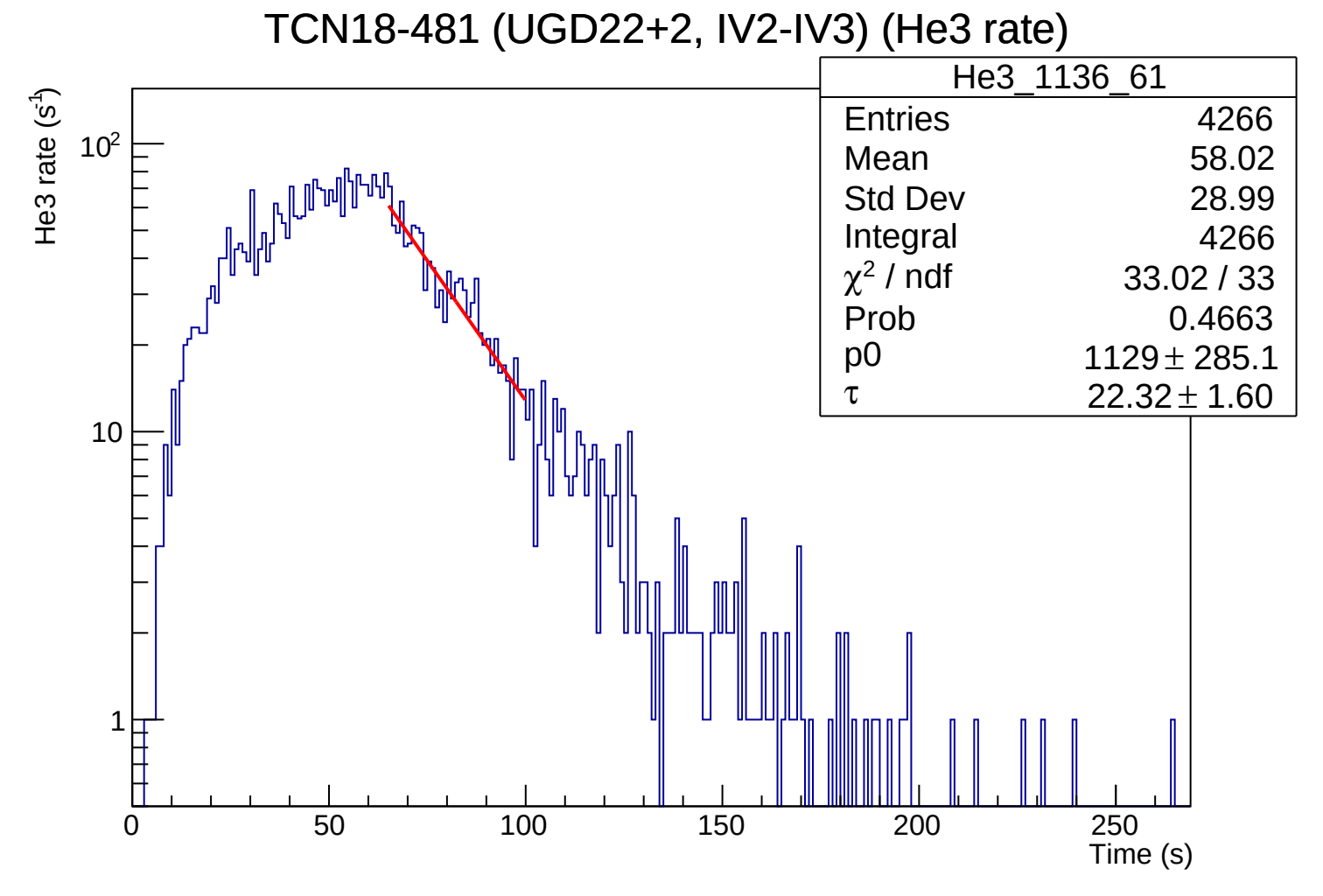

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_44
Entries 4156
Mean 57.26
Std Dev 28.56
Integral 4156
χ² / ndf 14.1 / 13
Prob 0.3665
p0 1225 ± 781.1
τ 21.27 ± 4.02
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

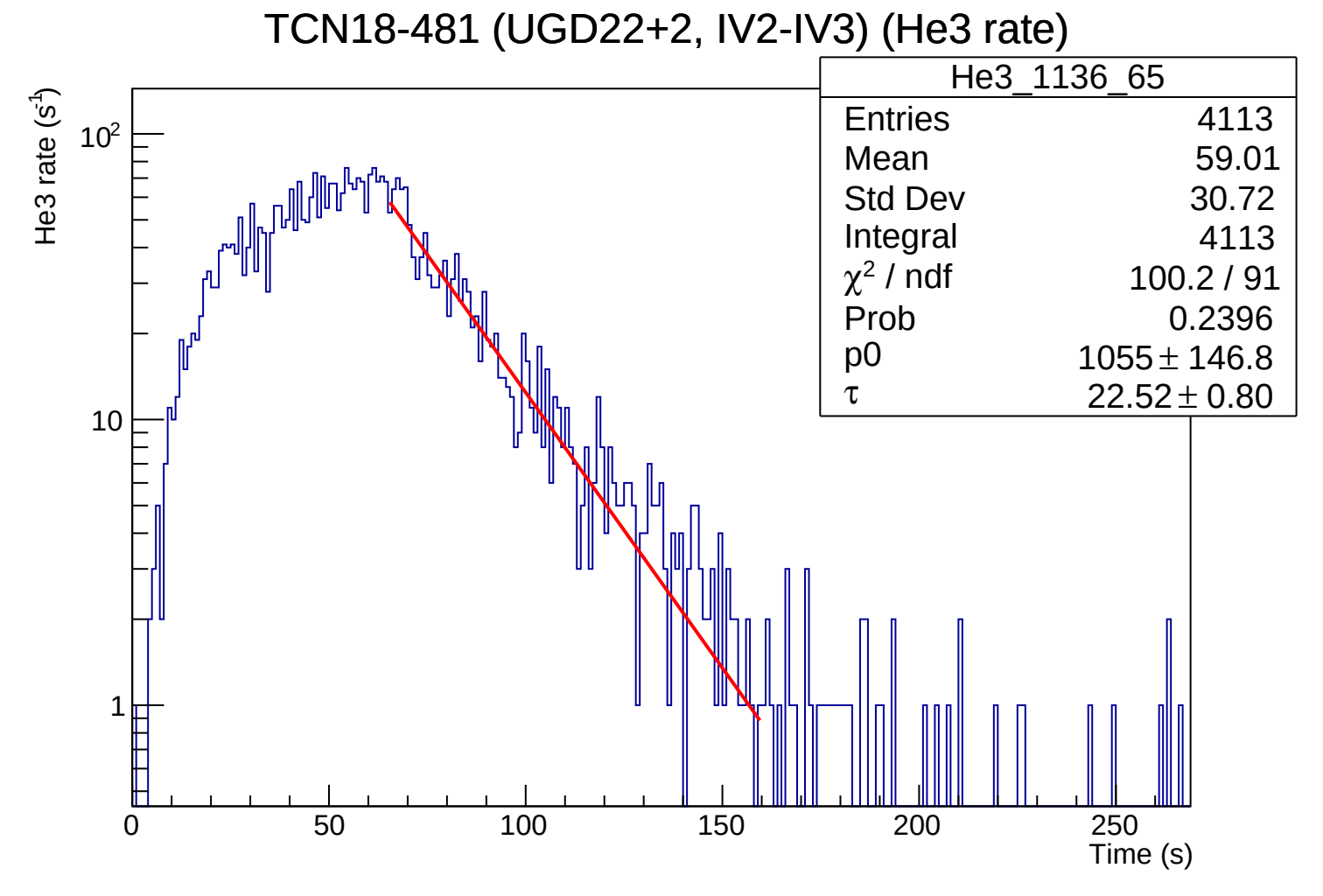

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_45
Entries 4199
Mean 58.51
Std Dev 29.25
Integral 4199
χ² / ndf 31.87 / 33
Prob 0.5231
p0 1732 ± 456.4
τ 19.8 ± 1.3
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

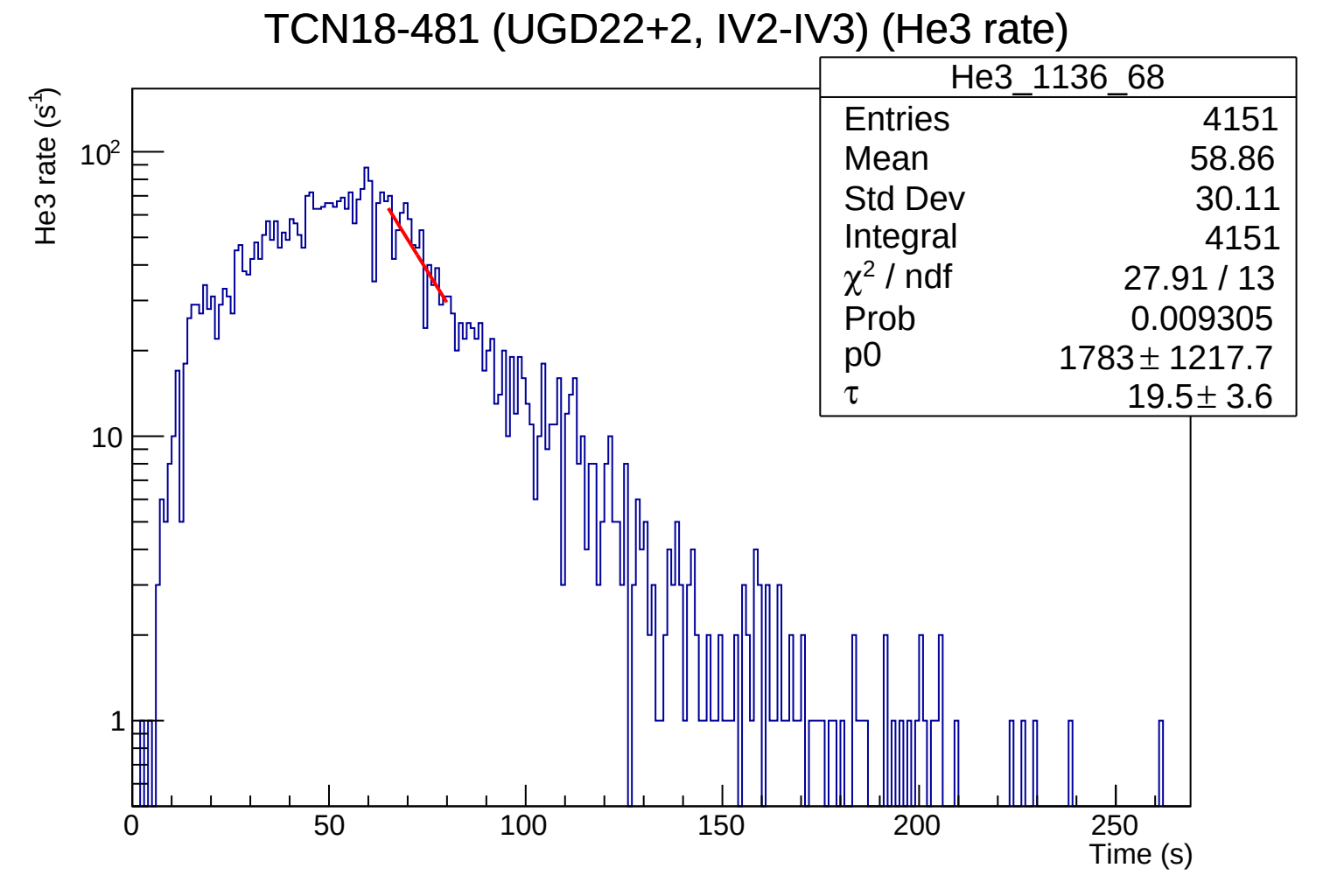

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_49
Entries 4262
Mean 57.66
Std Dev 28.79
Integral 4262
χ² / ndf 79.06 / 88
Prob 0.7414
p0 1371± 193.2
τ 21.3± 0.7
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

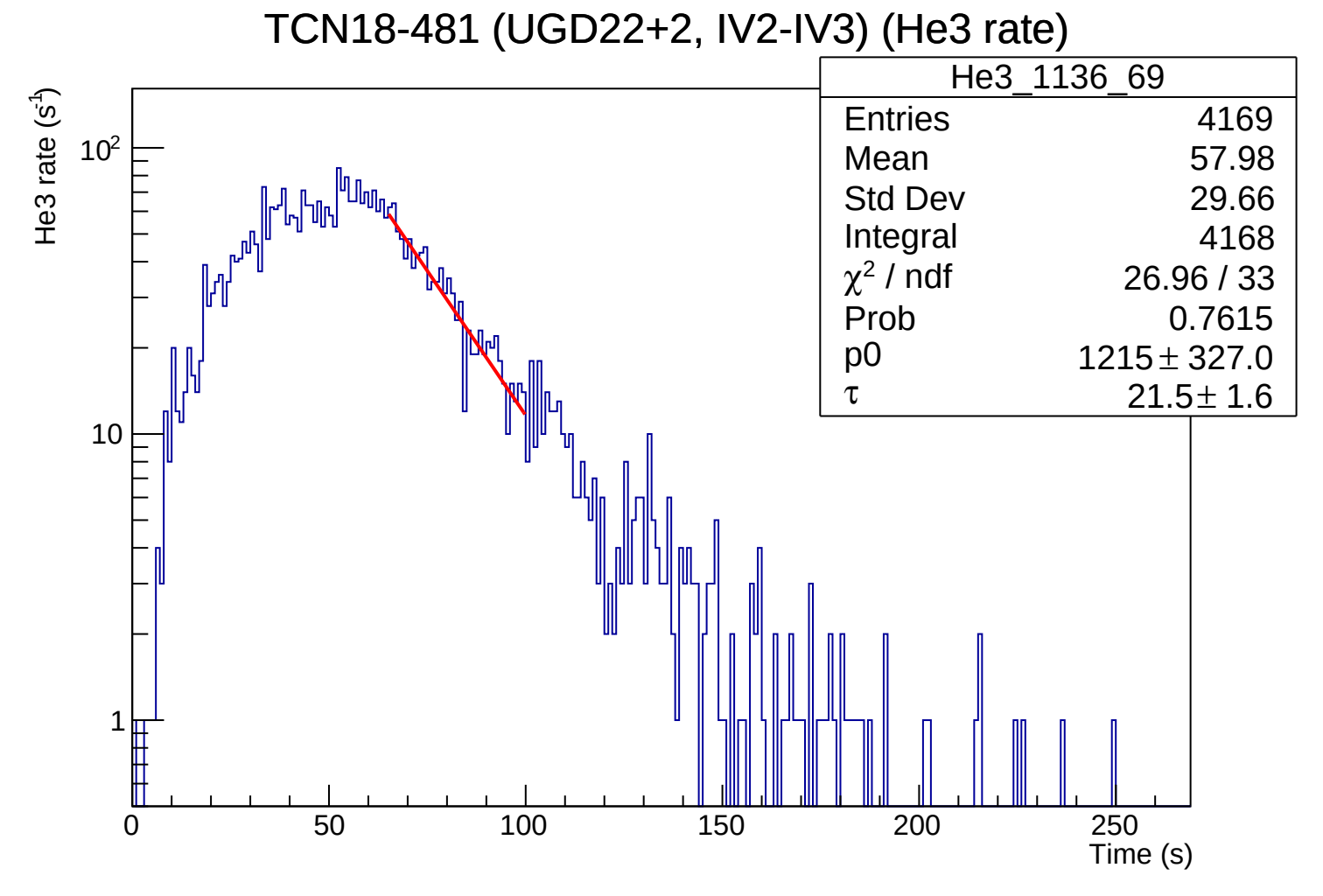

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_51
Entries 4171
Mean 58.75
Std Dev 29.48
Integral 4171
χ² / ndf 73.49 / 53
Prob 0.03273
p0 791.8 ± 148.4
τ 24.28 ± 1.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

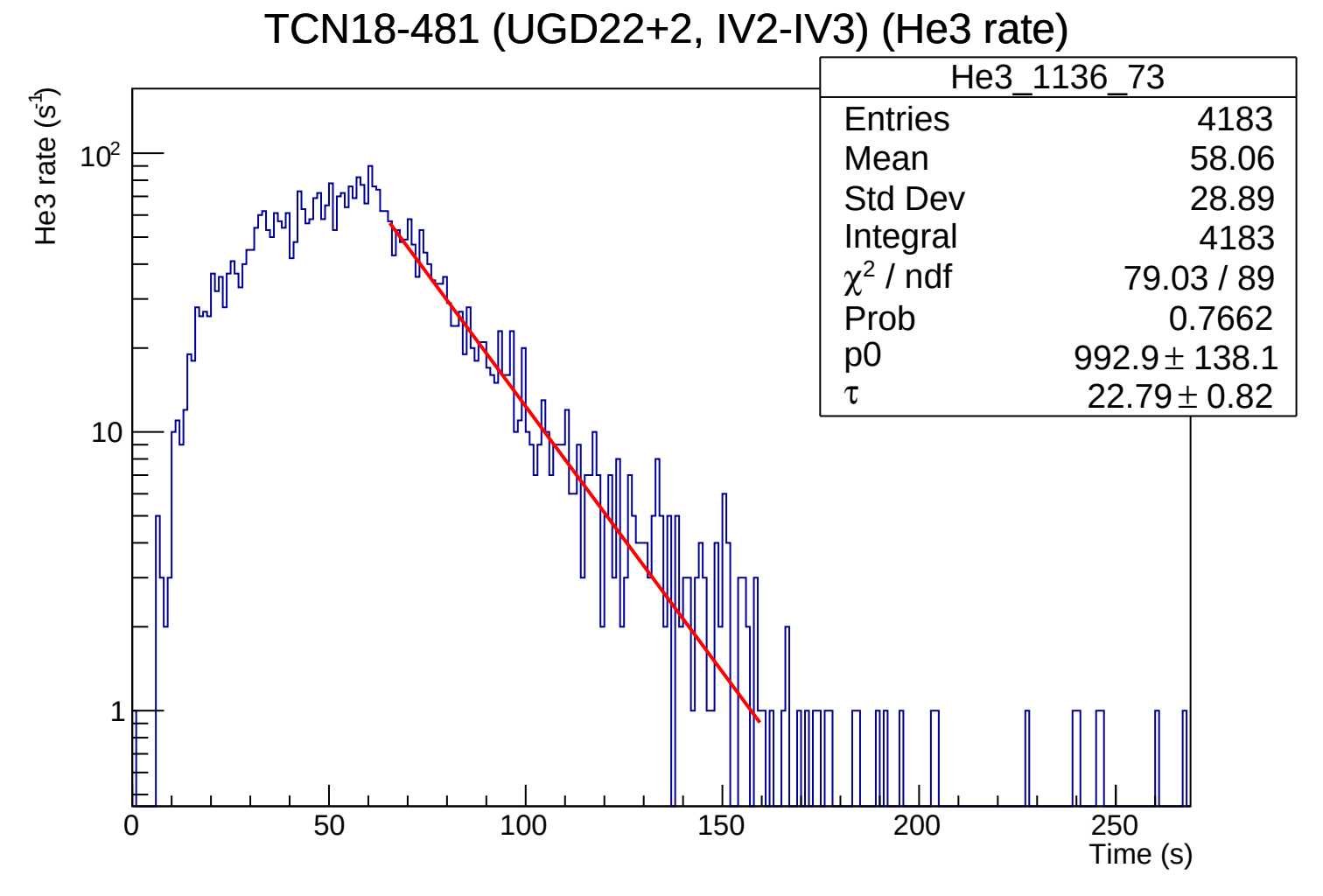

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_59
Entries 4175
Mean 58.08
Std Dev 29.35
Integral 4175
χ² / ndf 73.42 / 53
Prob 0.03312
p0 1423 ± 260.5
τ 20.68 ± 0.95
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

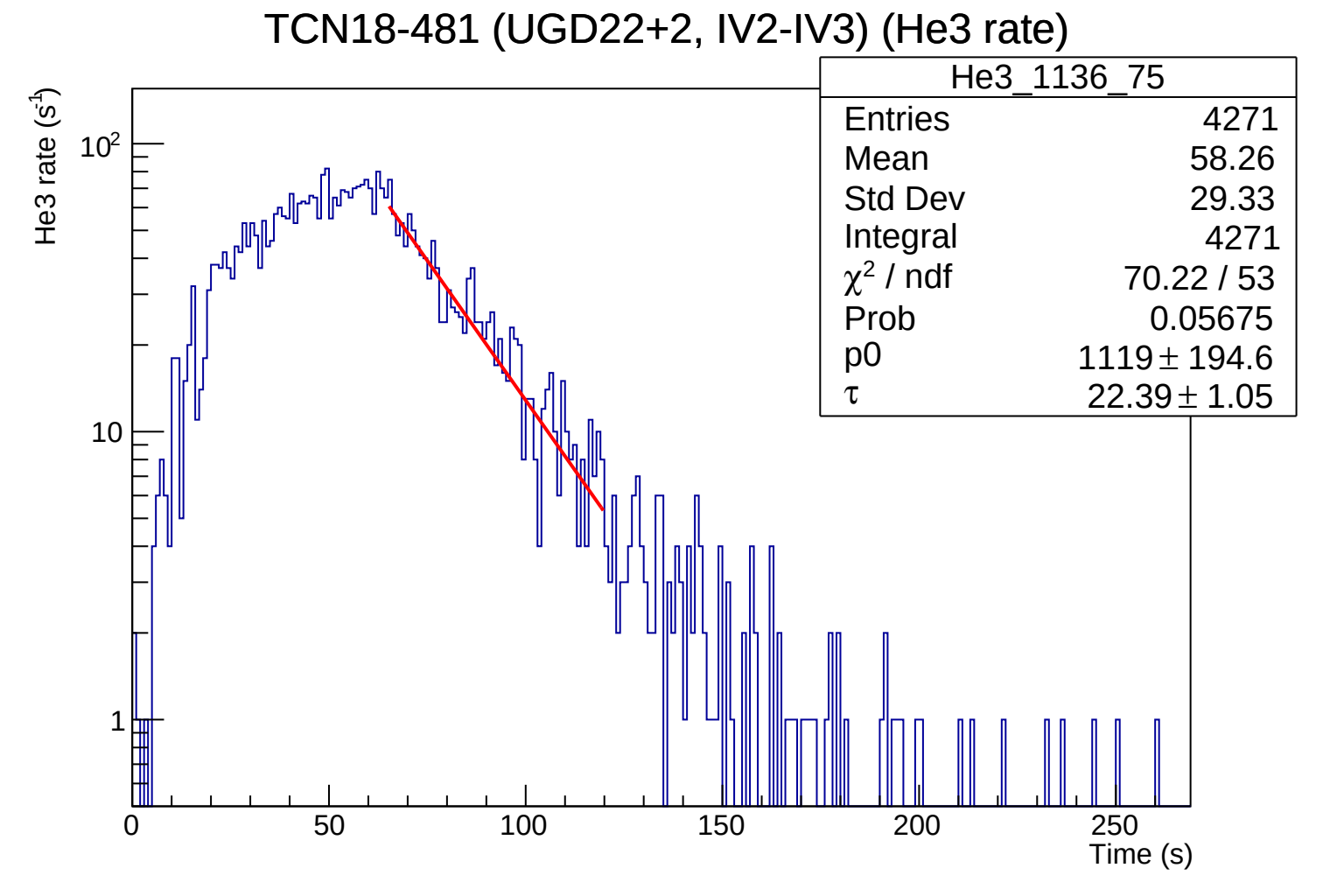

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_61
Entries 4266
Mean 58.02
Std Dev 28.99
Integral 4266
χ² / ndf 33.02 / 33
Prob 0.4663
p0 1129 ± 285.1
τ 22.32 ± 1.60
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

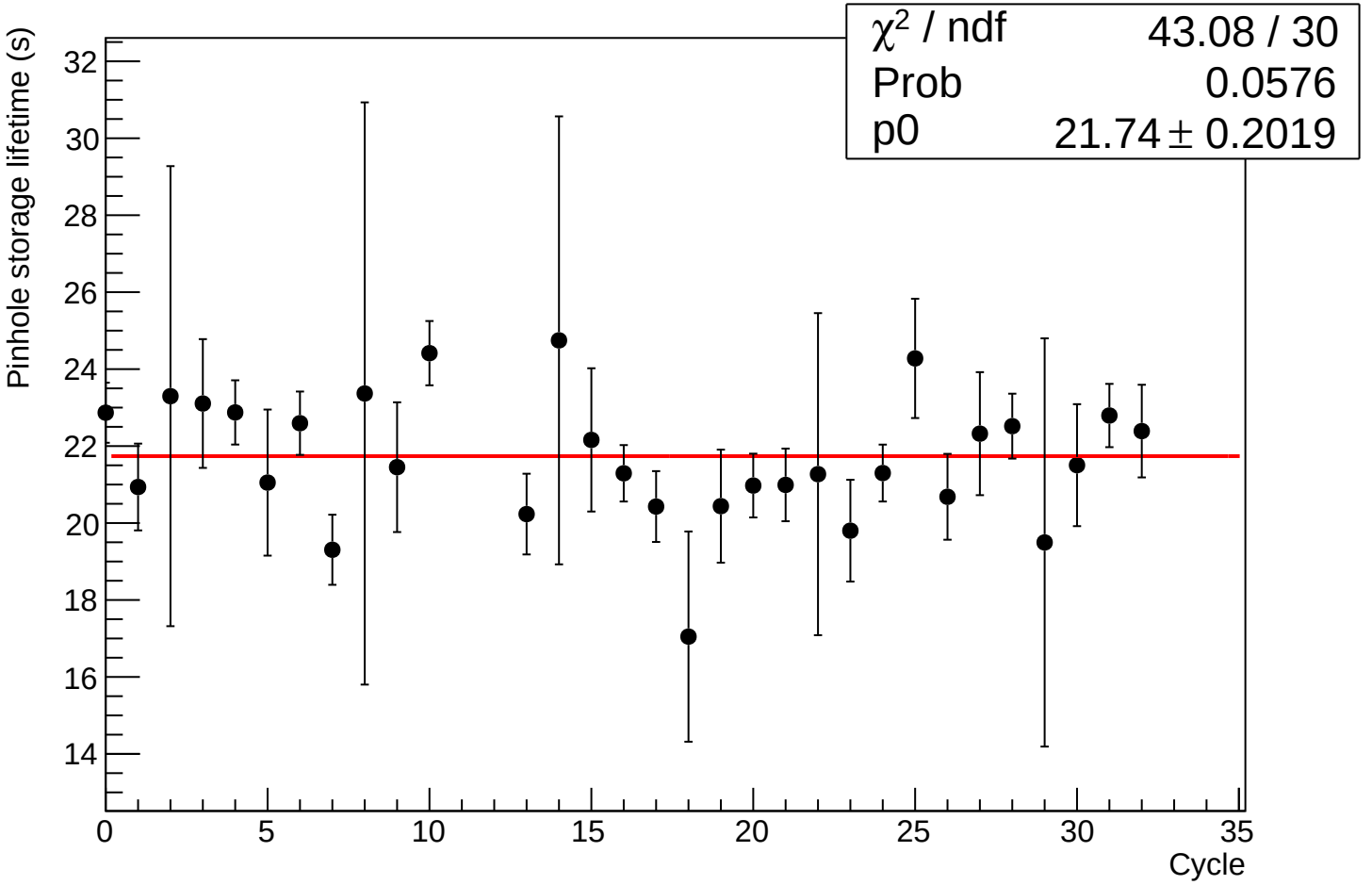

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_65
Entries 4113
Mean 59.01
Std Dev 30.72
Integral 4113
χ² / ndf 100.2 / 91
Prob 0.2396
p0 1055 ± 146.8
τ 22.52 ± 0.80
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

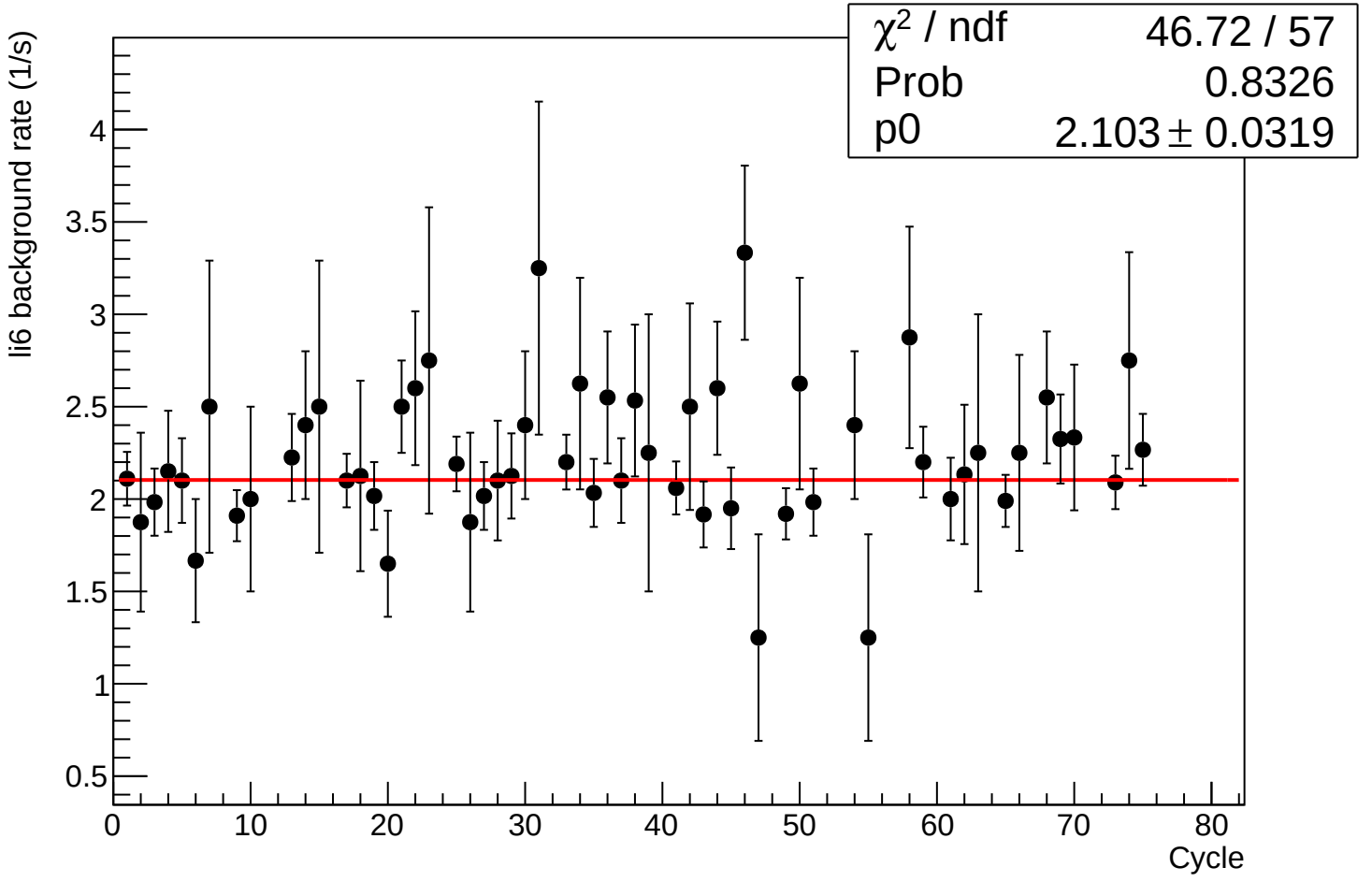

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_68
Entries 4151
Mean 58.86
Std Dev 30.11
Integral 4151
χ² / ndf 27.91 / 13
Prob 0.009305
p0 1783 ± 1217.7
τ 19.5 ± 3.6
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

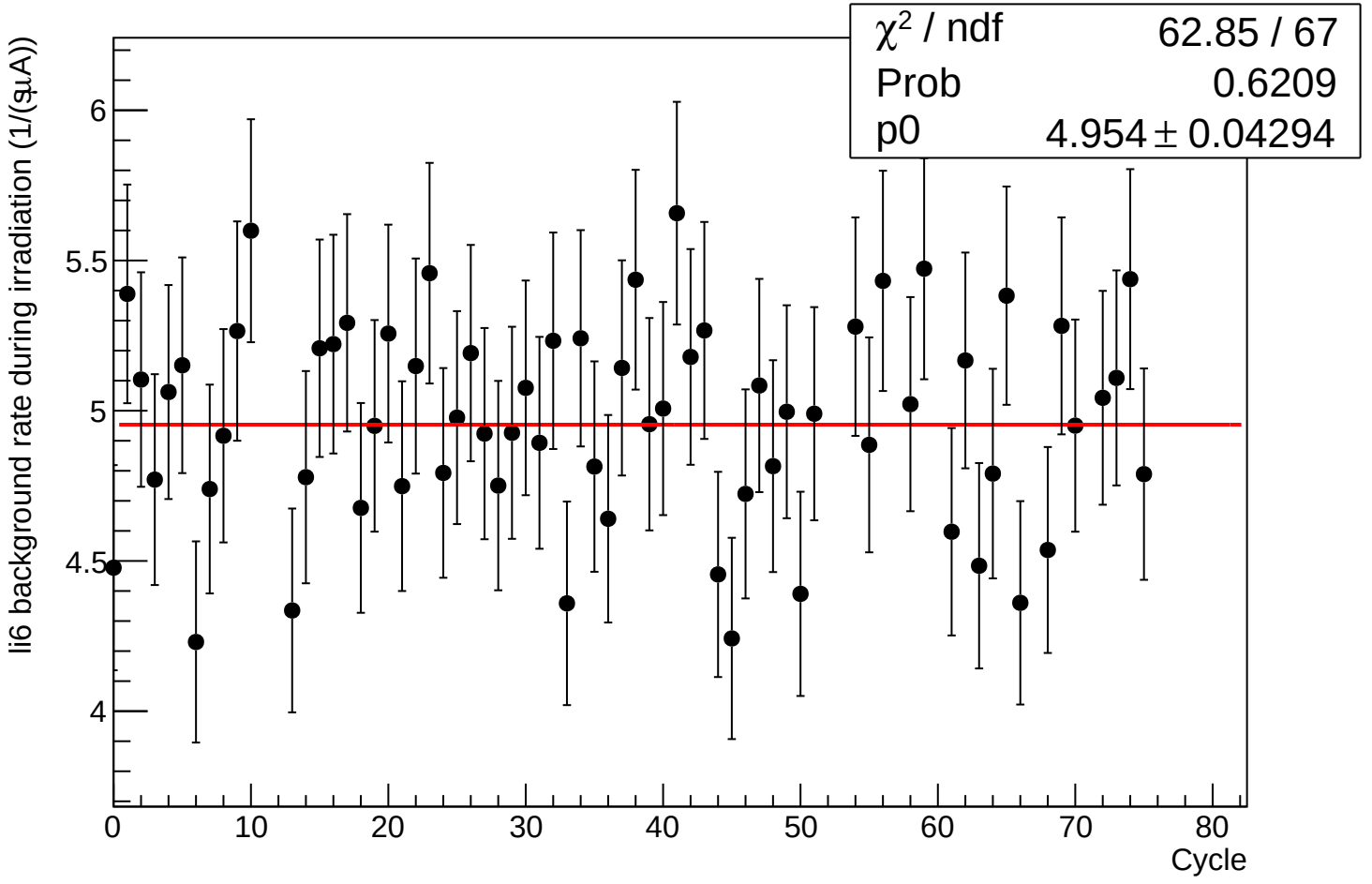

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_69
Entries 4169
Mean 57.98
Std Dev 29.66
Integral 4168
χ² / ndf 26.96 / 33
Prob 0.7615
p0 1215 ± 327.0
τ 21.5 ± 1.6
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

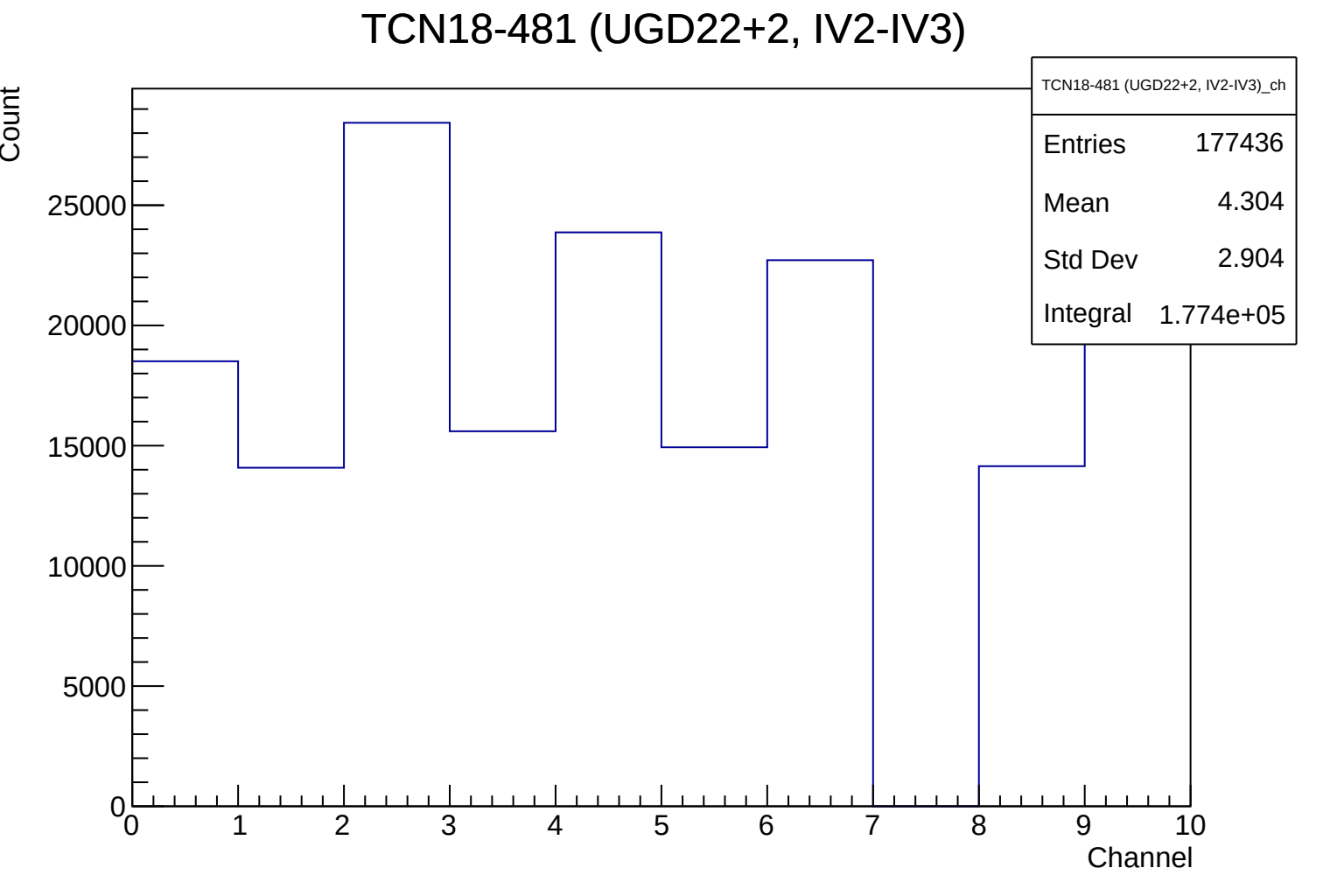

TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_73
Entries 4183
Mean 58.06
Std Dev 28.89
Integral 4183
χ² / ndf 79.03 / 89
Prob 0.7662
p0 992.9 ± 138.1
τ 22.79 ± 0.82
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN18-481 (UGD22+2, IV2-IV3) (He3 rate)
He3_1136_75
Entries 4271
Mean 58.26
Std Dev 29.33
Integral 4271
χ² / ndf 70.22 / 53
Prob 0.05675
p0 1119 ± 194.6
τ 22.39 ± 1.05
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


χ^2 / ndf 43.08 / 30
Prob 0.0576
p0 21.74 ± 0.2019
Pinhole storage lifetime (s)
32
30
28
26
24
22
20
18
16
14
0
5
10
15
20
25
30
35
Cycle


χ^2 / ndf 46.72 / 57
Prob 0.8326
p0 2.103 ± 0.0319
li6 background rate (1/s)
0.5
1
1.5
2
2.5
3
3.5
4
0
10
20
30
40
50
60
70
80
Cycle


χ^2 / ndf 62.85 / 67
Prob 0.6209
p0 4.954 ± 0.04294
li6 background rate during irradiation (1/(μA))
Cycle
0
10
20
30
40
50
60
70
80
4
4.5
5
5.5
6


TCN18-481 (UGD22+2, IV2-IV3)
TCN18-481 (UGD22+2, IV2-IV3)_ch
Entries 177436
Mean 4.304
Std Dev 2.904
Integral 1.774e+05
Count
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10
Channel