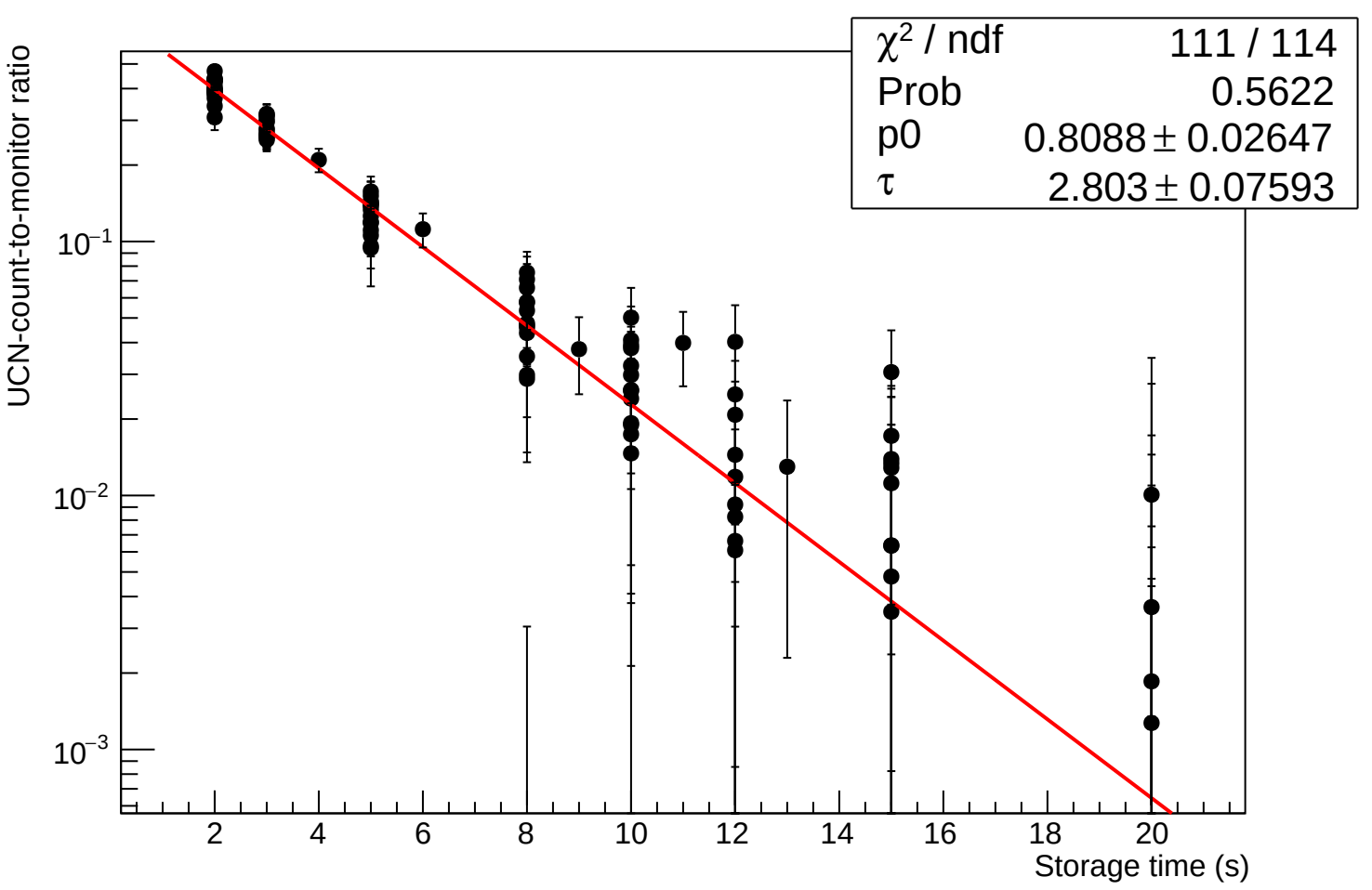
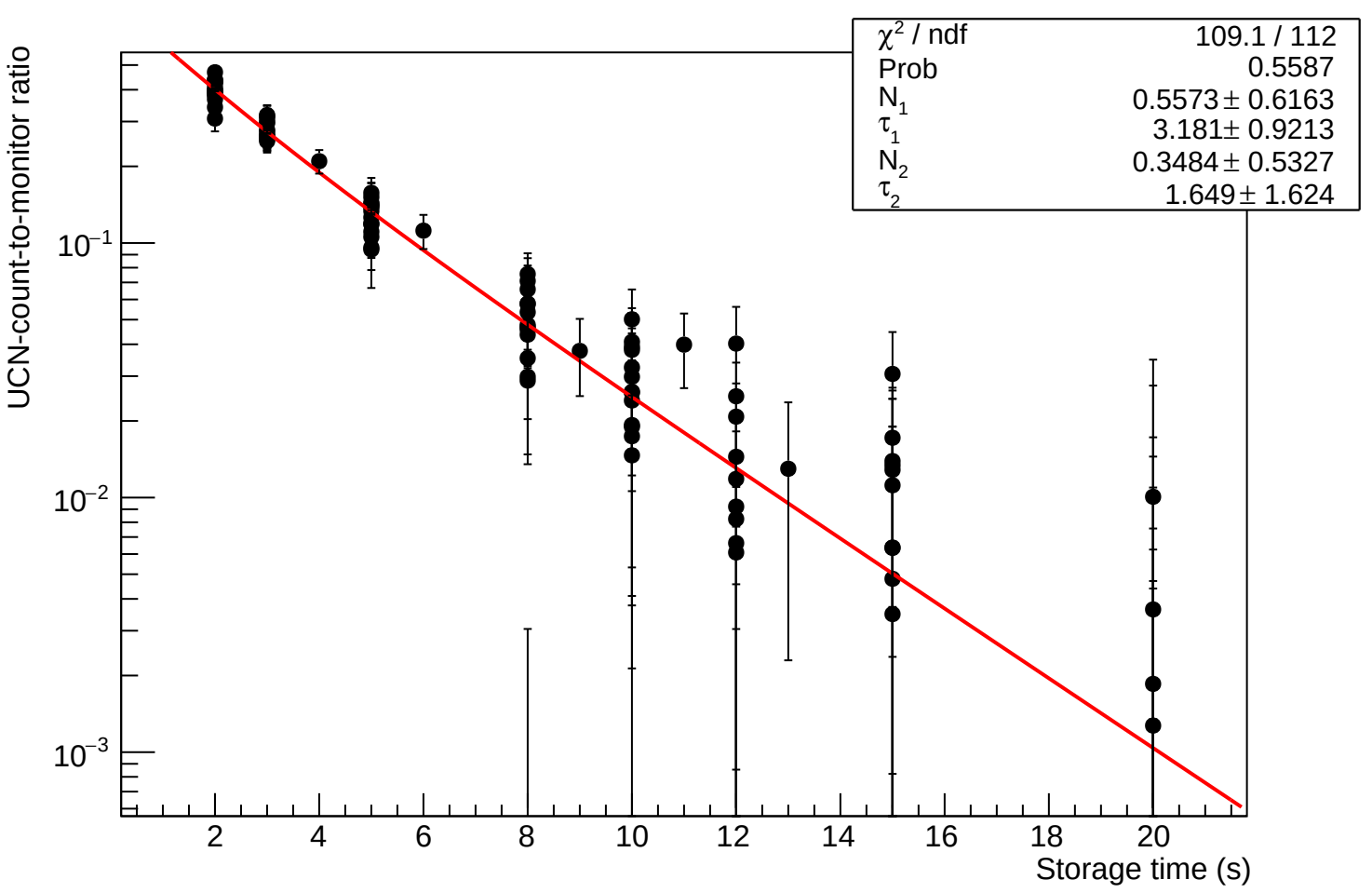
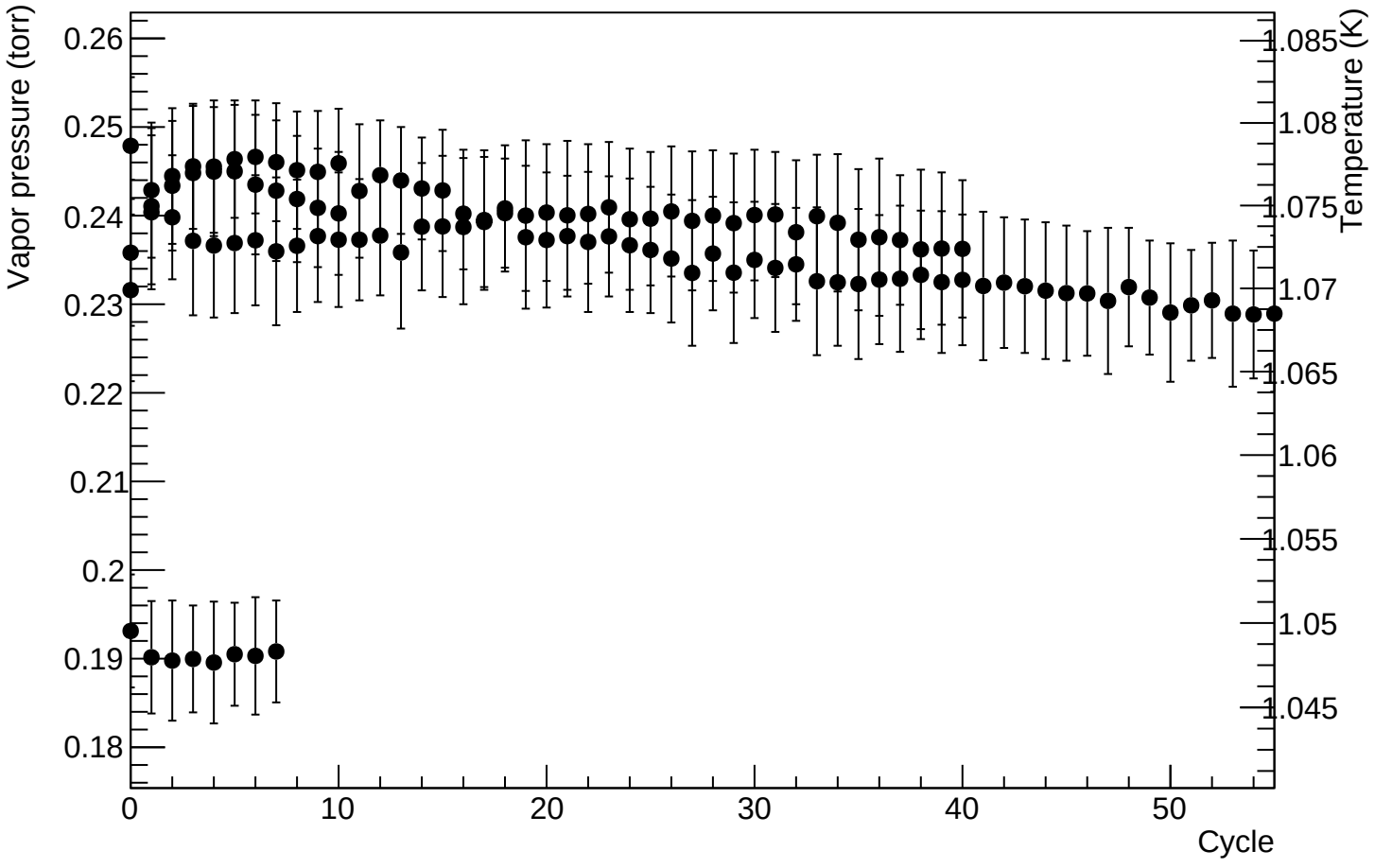
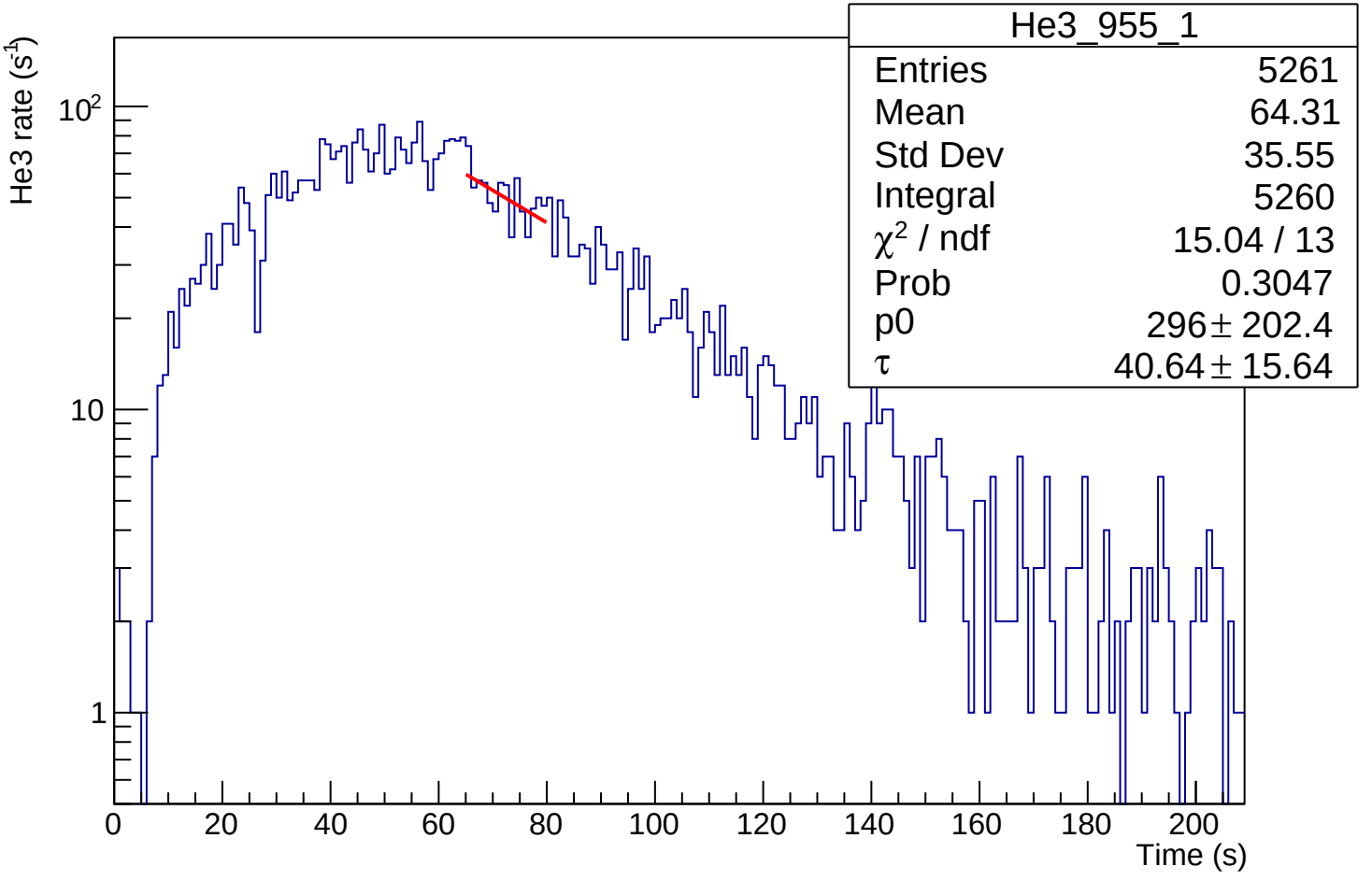
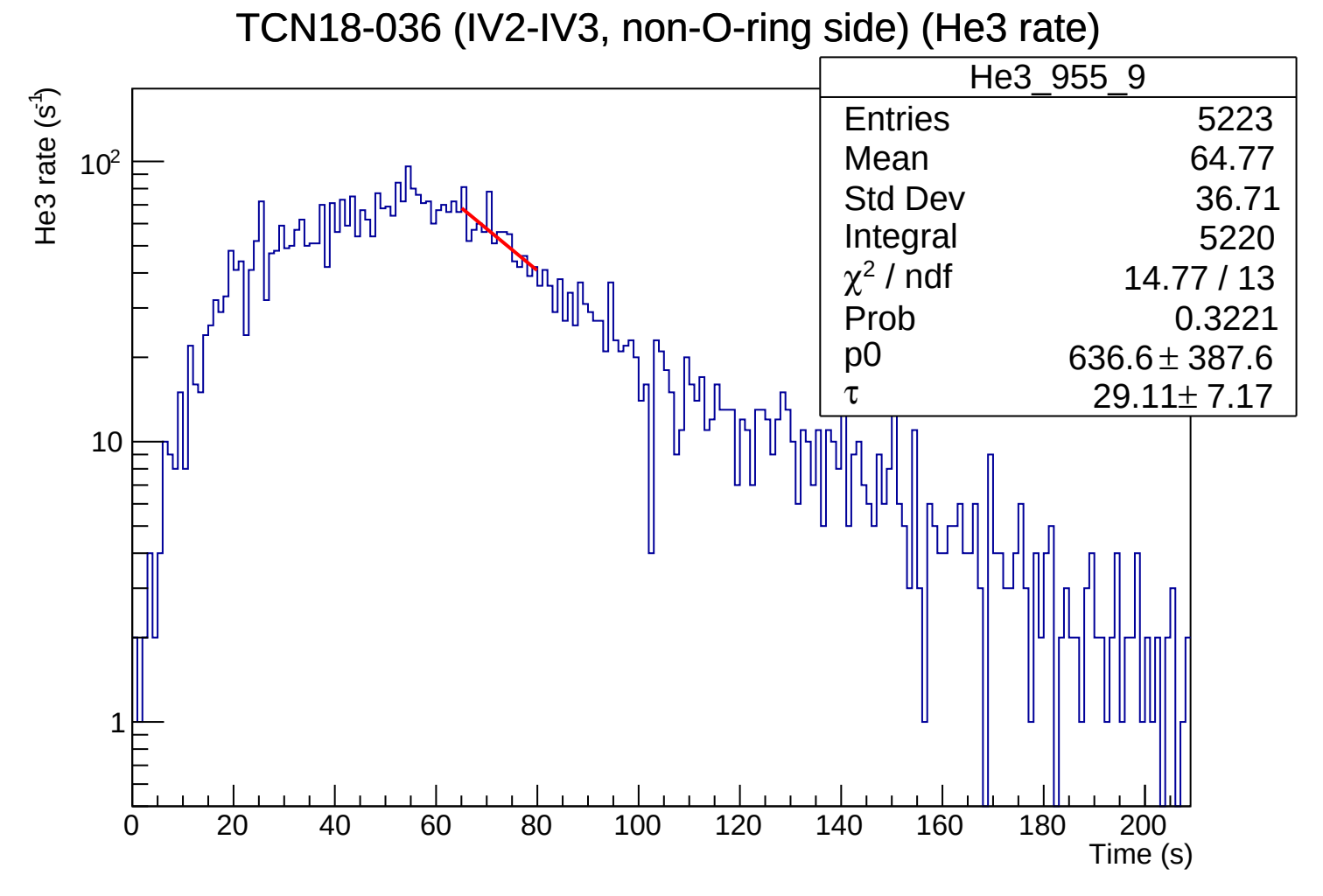
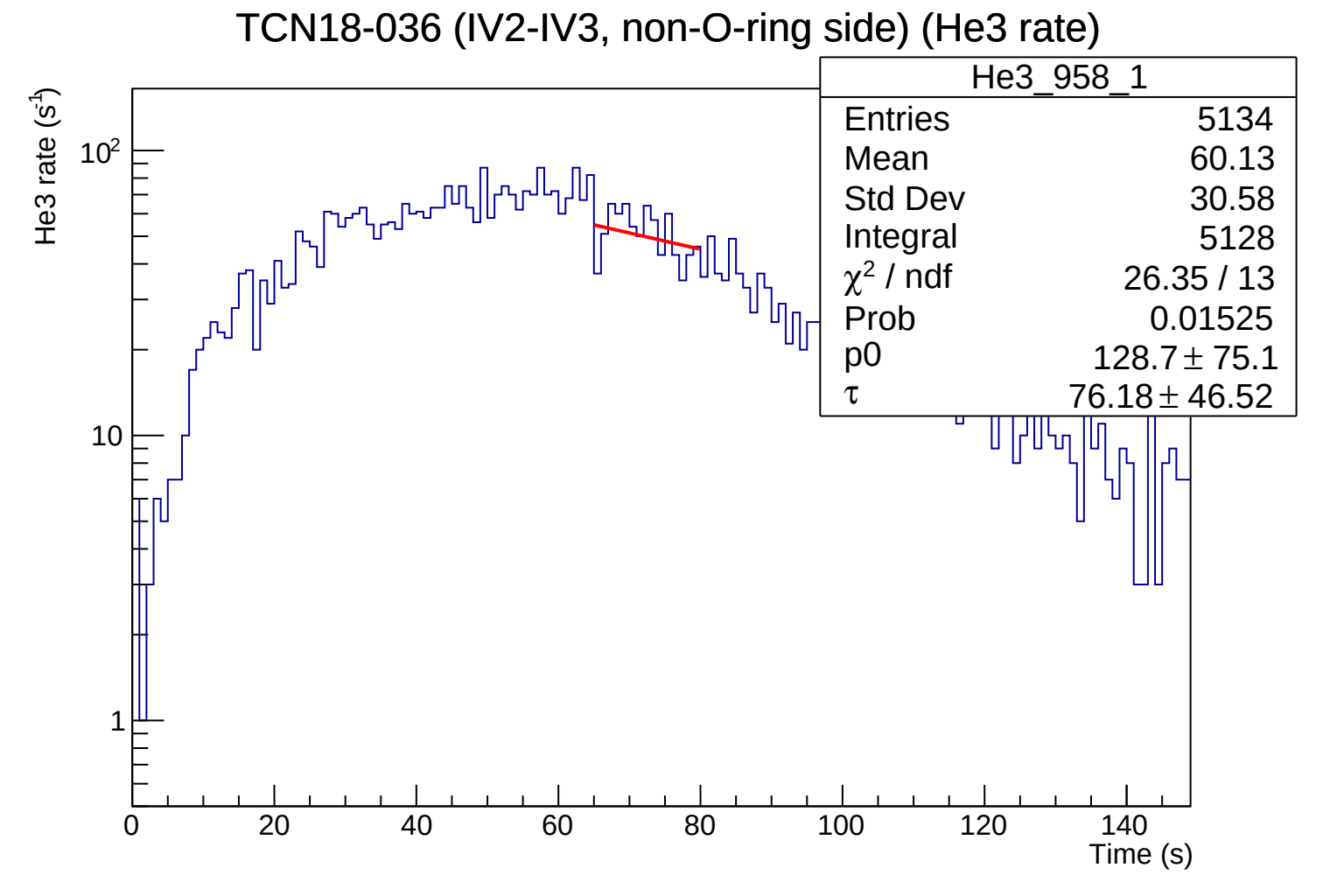

TCN18-036 (IV2-IV3, non-O-ring side) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 111 / 114
Prob 0.5622
p0 0.8088 ± 0.02647
τ 2.803 ± 0.07593
UCN-count-to-monitor ratio
10⁻¹
10⁻²
10⁻³
2
4
6
8
10
12
14
16
18
20
Storage time (s)

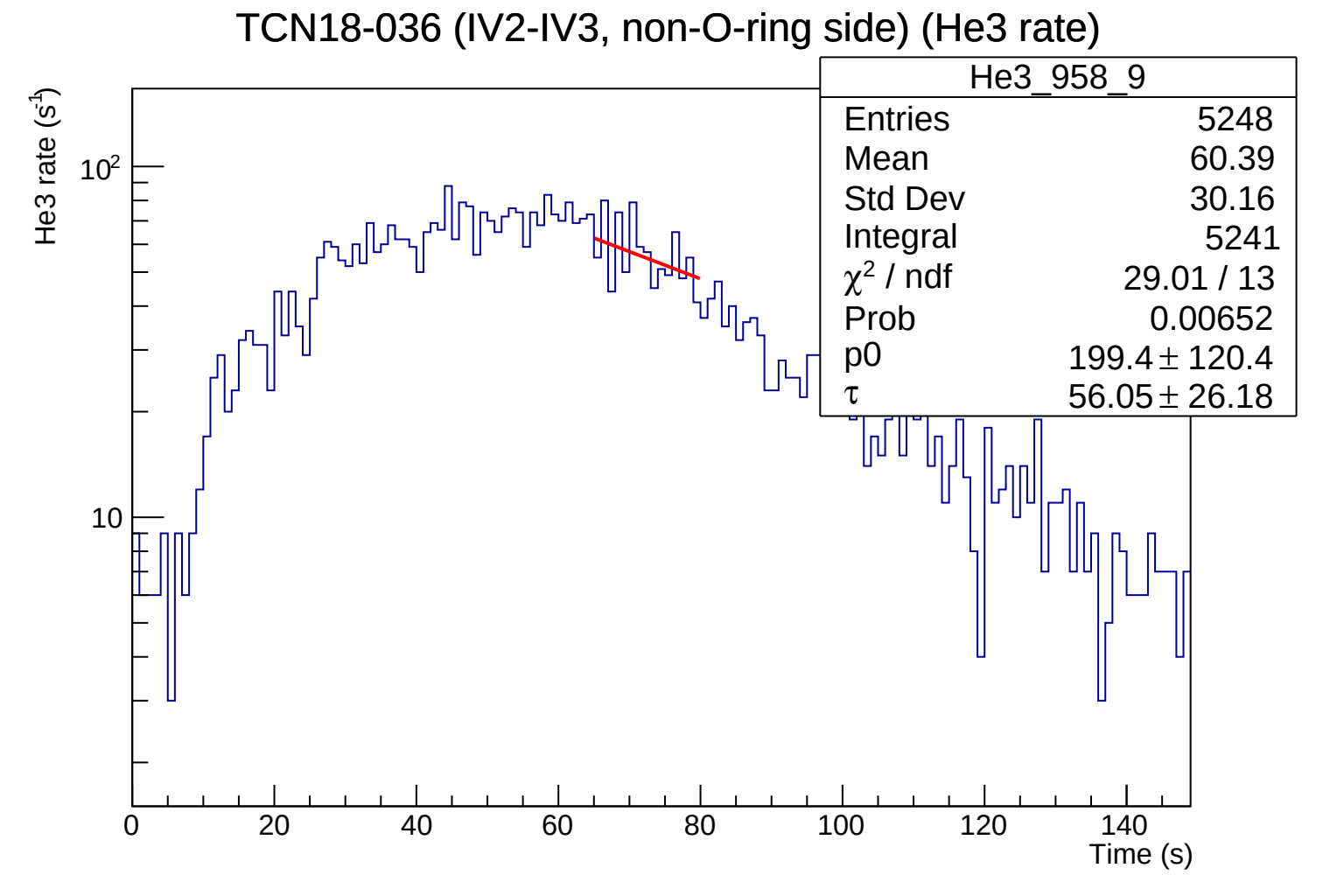

TCN18-036 (IV2-IV3, non-O-ring side) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ^2 / ndf 109.1 / 112
Prob 0.5587
N_1 0.5573 ± 0.6163
τ_1 3.181 ± 0.9213
N_2 0.3484 ± 0.5327
τ_2 1.649 ± 1.624
UCN-count-to-monitor ratio
10^{-1}
10^{-2}
10^{-3}
2
4
6
8
10
12
14
16
18
20
Storage time (s)

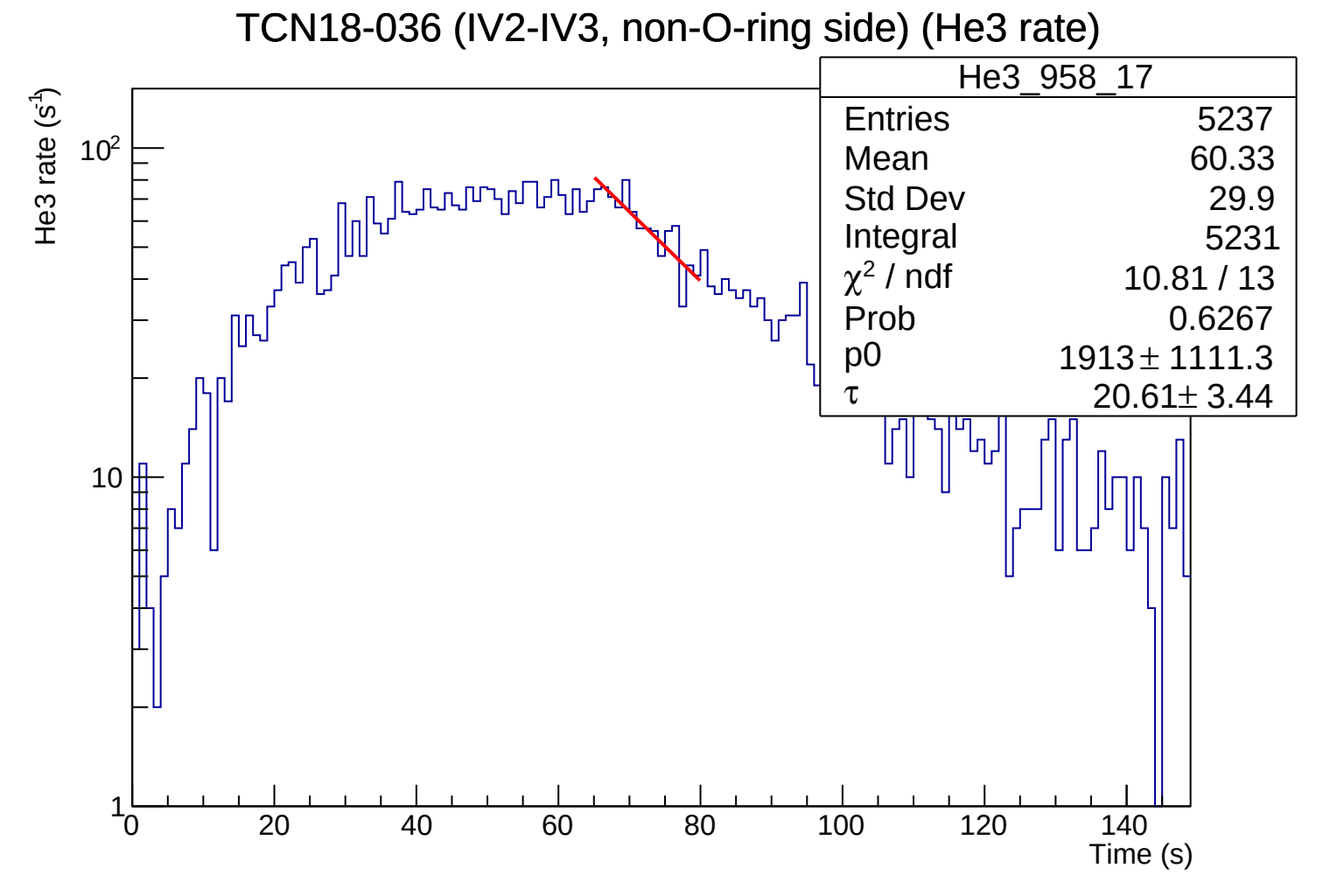

Graph
Vapor pressure (torr)
Temperature (K)
Cycle
0.26
0.25
0.24
0.23
0.22
0.21
0.2
0.19
0.18
1.085
1.08
1.075
1.07
1.065
1.06
1.055
1.05
1.045
0
10
20
30
40
50

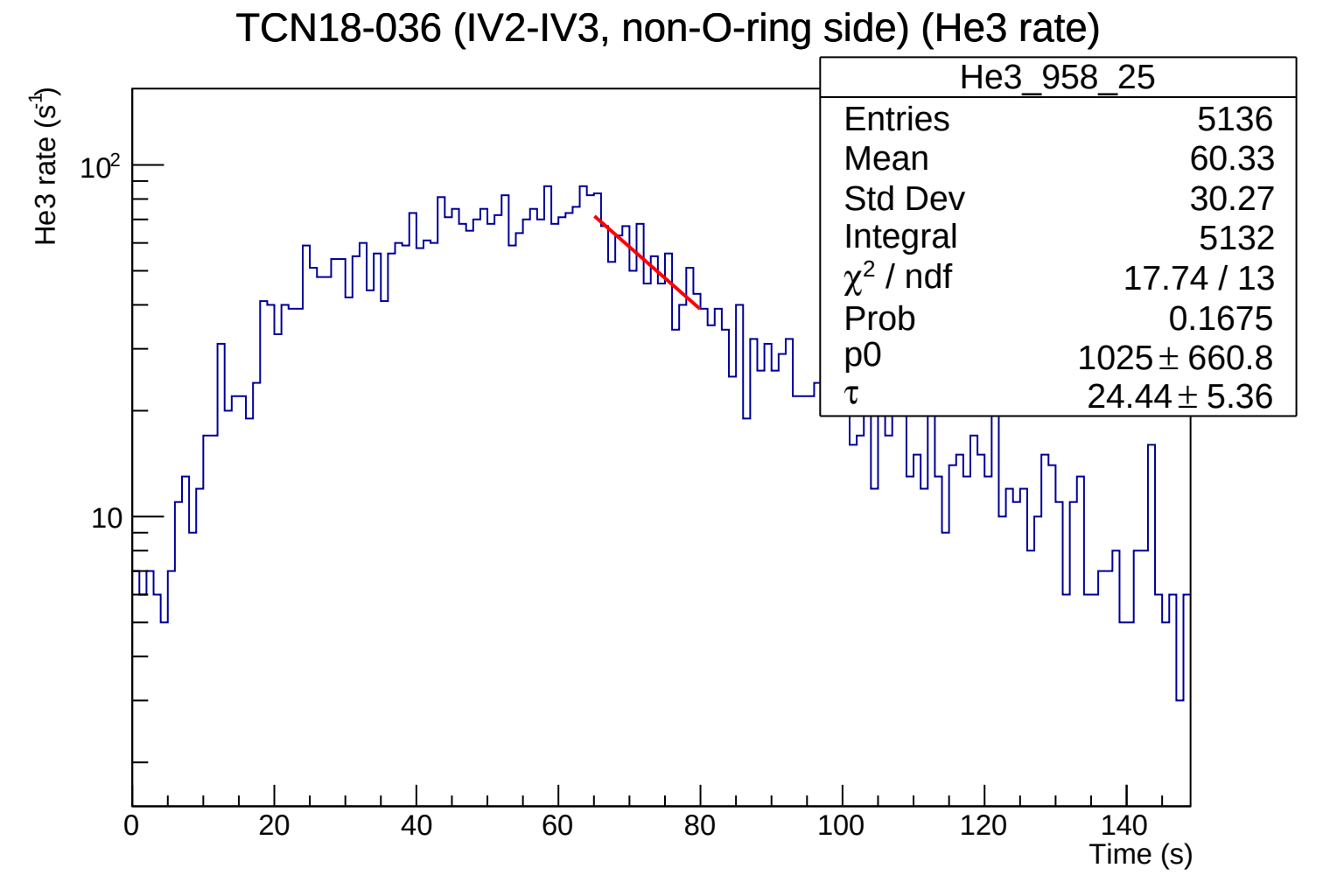

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_955_1
Entries 5261
Mean 64.31
Std Dev 35.55
Integral 5260
χ² / ndf 15.04 / 13
Prob 0.3047
p0 296 ± 202.4
τ 40.64 ± 15.64
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
160
180
200
Time (s)

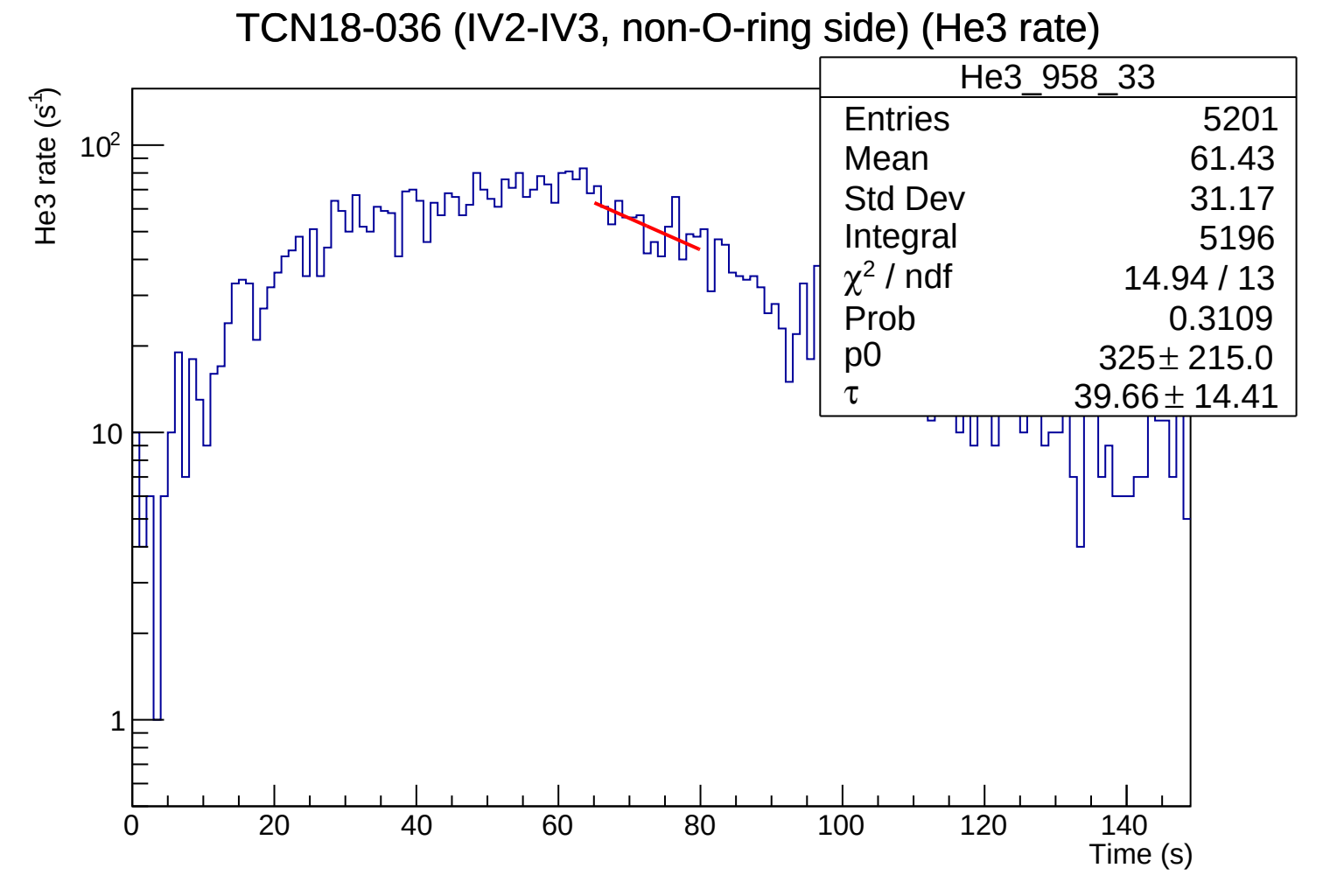

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_955_9
Entries 5223
Mean 64.77
Std Dev 36.71
Integral 5220
χ² / ndf 14.77 / 13
Prob 0.3221
p0 636.6 ± 387.6
τ 29.11 ± 7.17
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
160
180
200
Time (s)

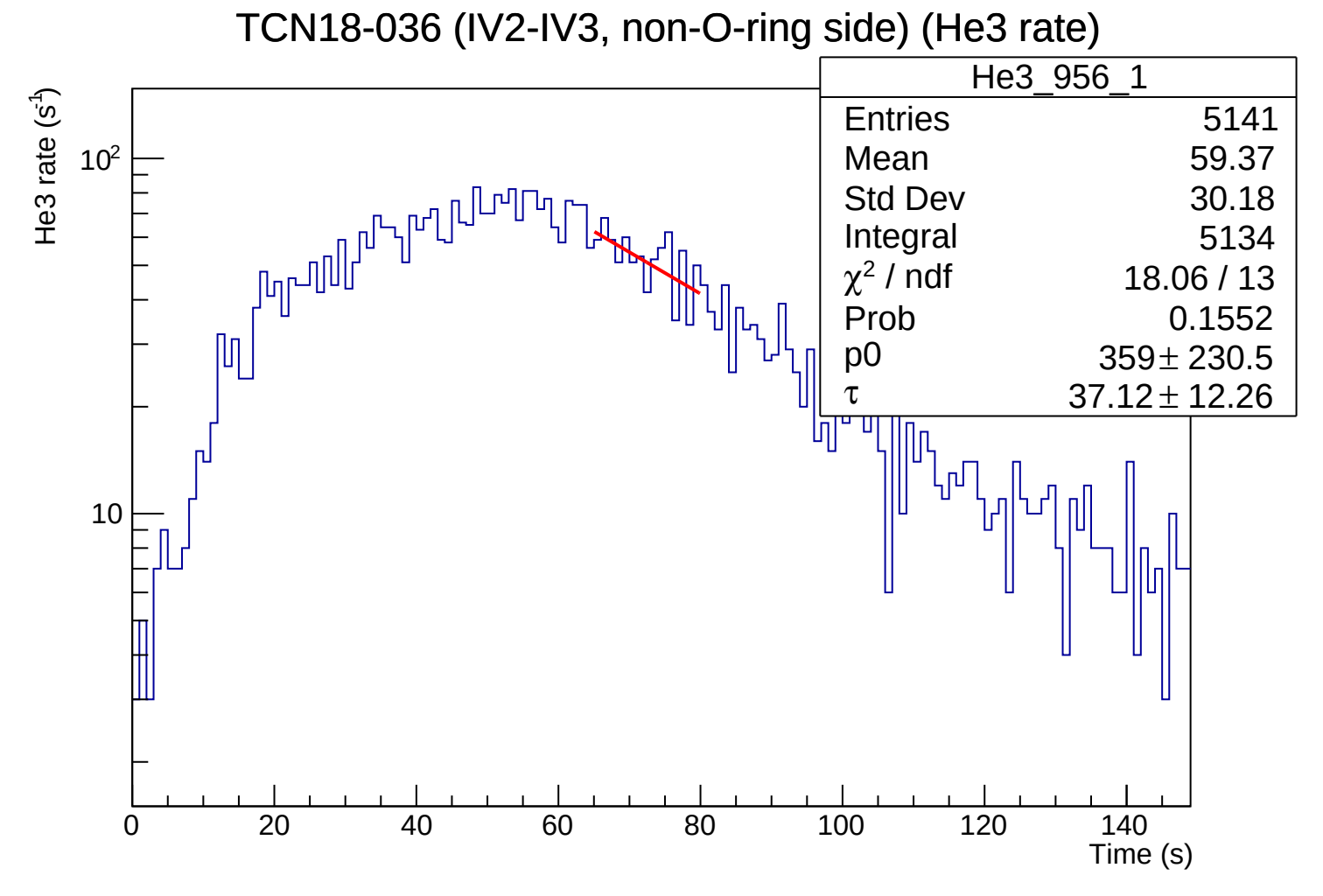

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_958_1
Entries 5134
Mean 60.13
Std Dev 30.58
Integral 5128
χ² / ndf 26.35 / 13
Prob 0.01525
p0 128.7 ± 75.1
τ 76.18 ± 46.52
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
Time (s)

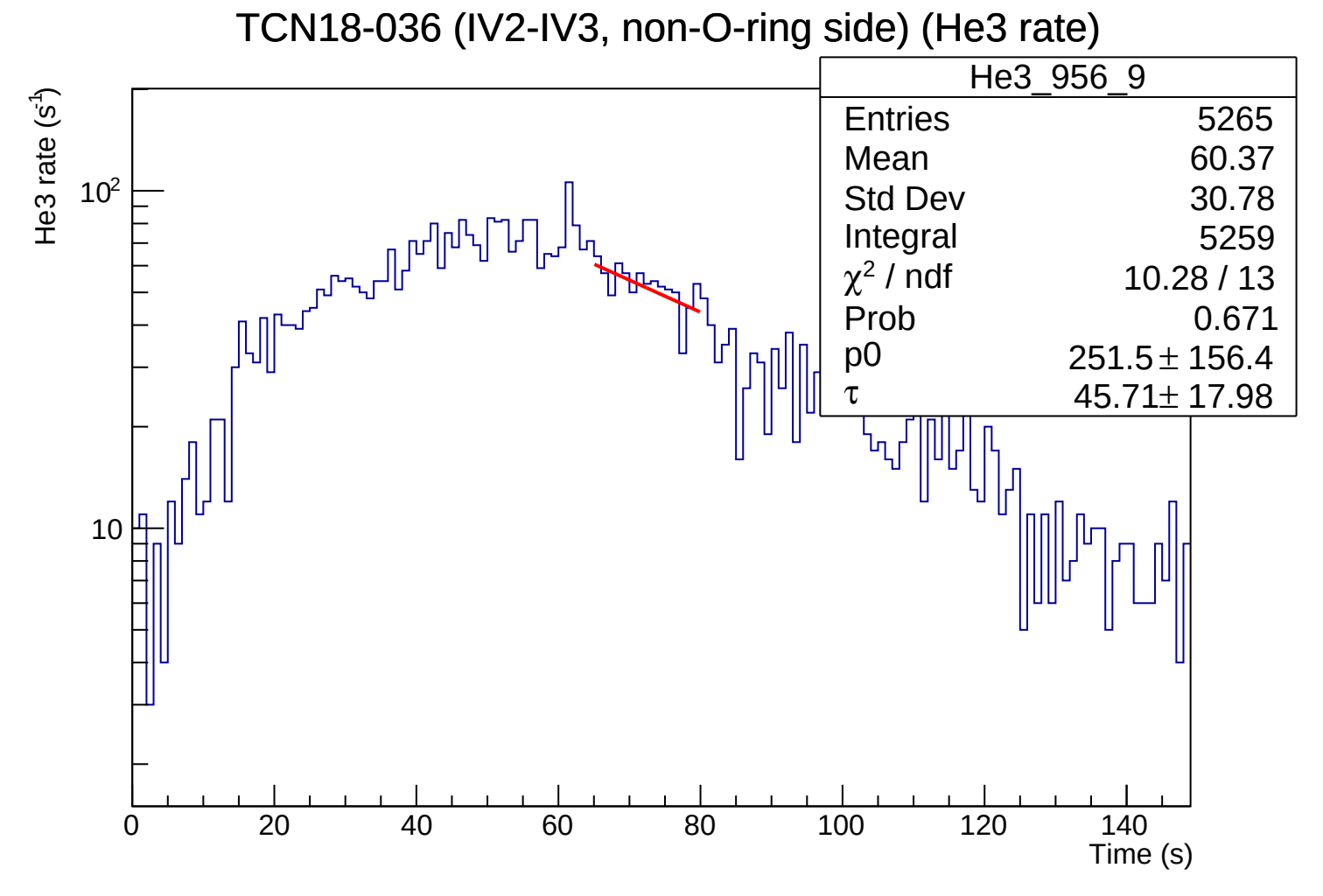

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_958_9
Entries 5248
Mean 60.39
Std Dev 30.16
Integral 5241
χ² / ndf 29.01 / 13
Prob 0.00652
p0 199.4 ± 120.4
τ 56.05 ± 26.18
He3 rate (s⁻¹)
10²
10
0
20
40
60
80
100
120
140
Time (s)

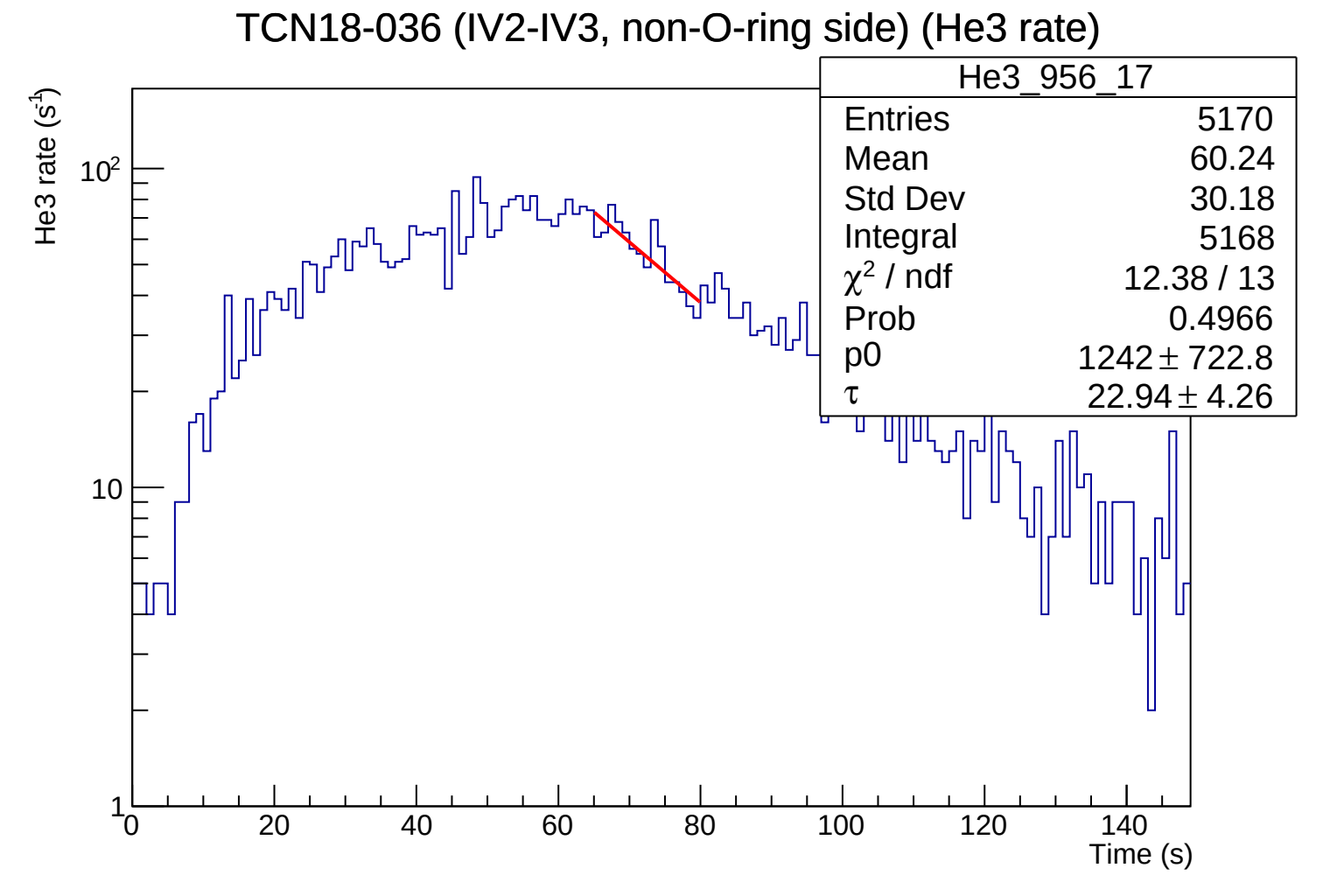

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_958_17
Entries 5237
Mean 60.33
Std Dev 29.9
Integral 5231
χ² / ndf 10.81 / 13
Prob 0.6267
p0 1913 ± 1111.3
τ 20.61 ± 3.44
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
Time (s)

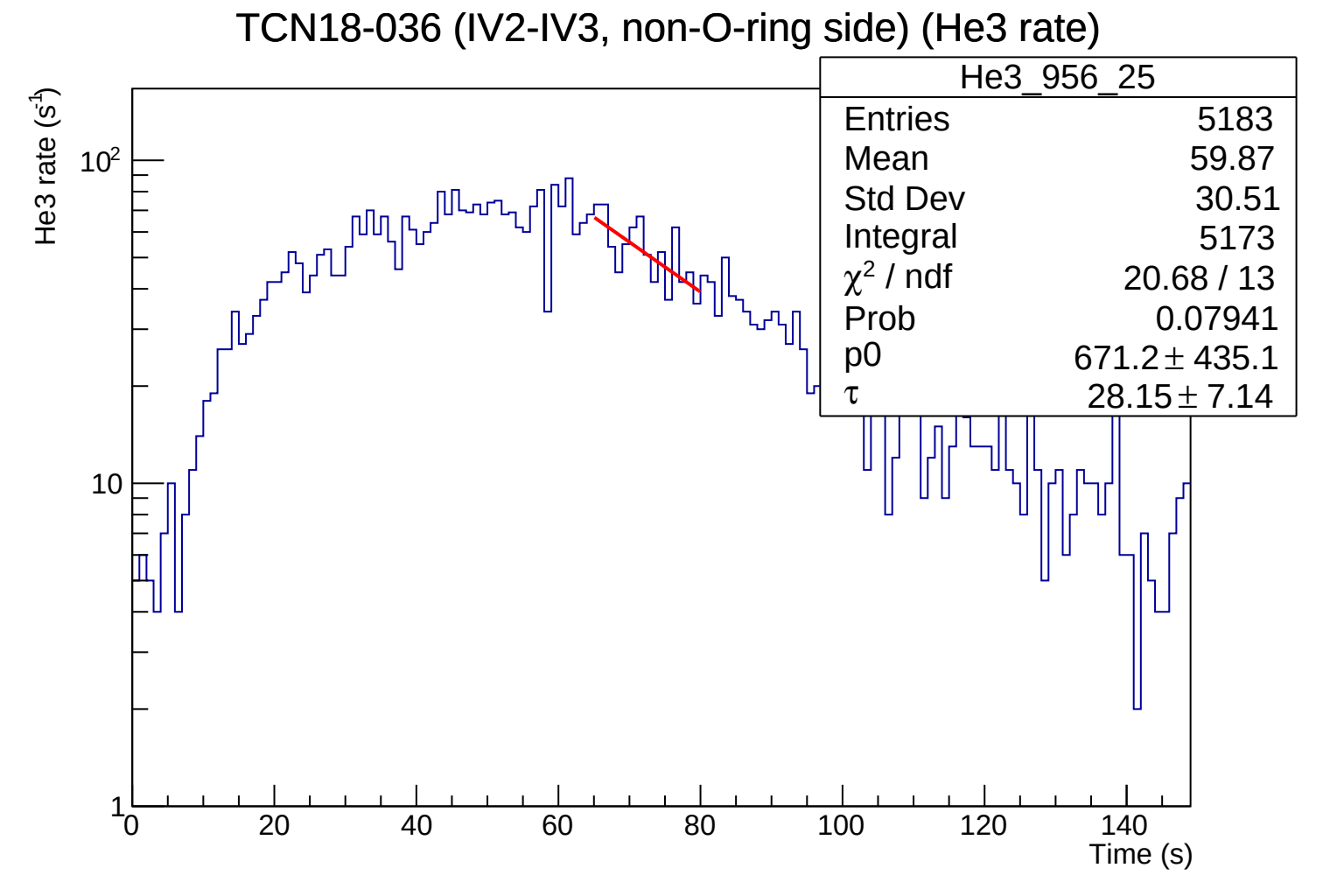

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_958_25
Entries 5136
Mean 60.33
Std Dev 30.27
Integral 5132
χ² / ndf 17.74 / 13
Prob 0.1675
p0 1025 ± 660.8
τ 24.44 ± 5.36
He3 rate (s⁻¹)
10²
10
0
20
40
60
80
100
120
140
Time (s)

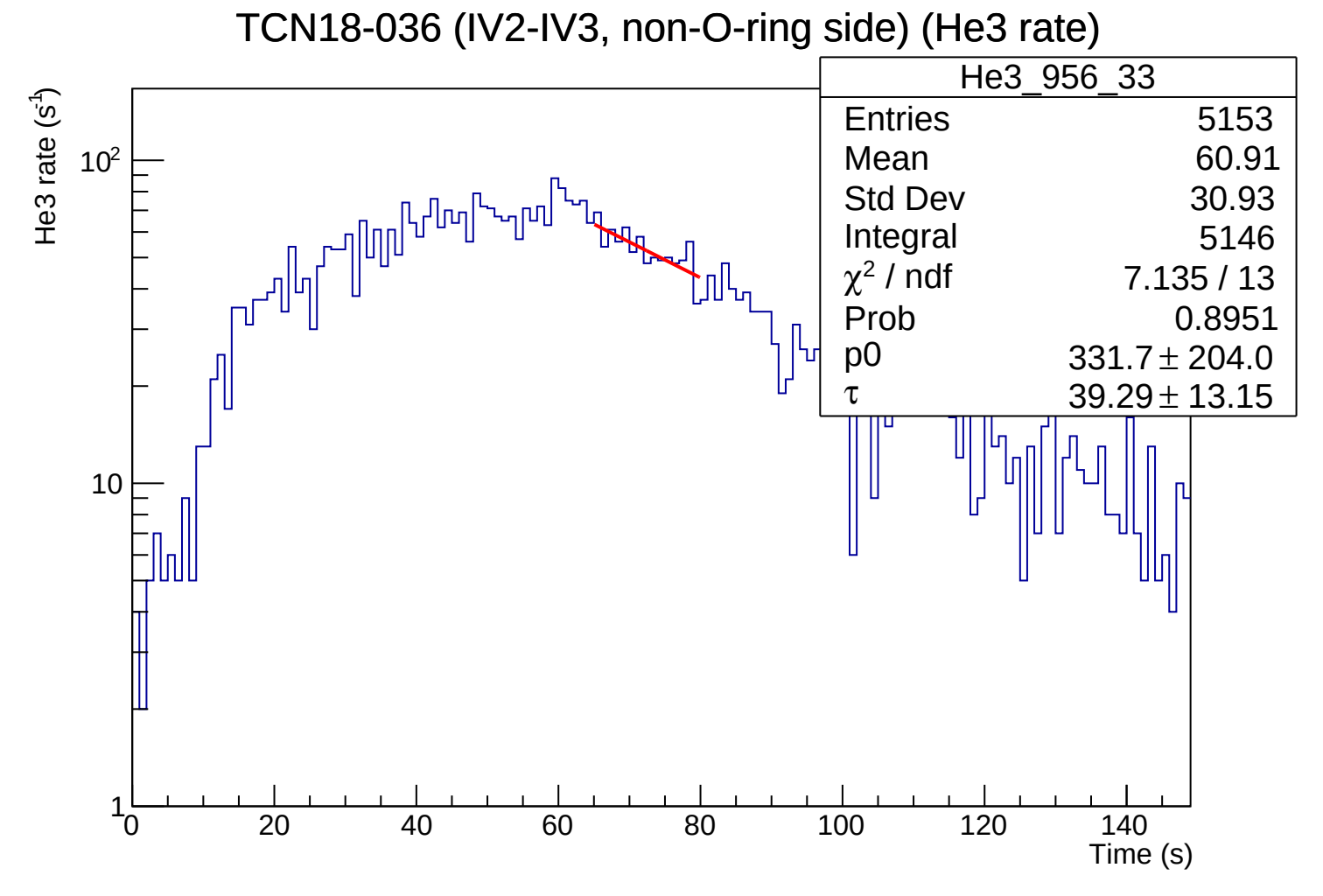

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_958_33
Entries 5201
Mean 61.43
Std Dev 31.17
Integral 5196
χ² / ndf 14.94 / 13
Prob 0.3109
p0 325 ± 215.0
τ 39.66 ± 14.41
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
Time (s)

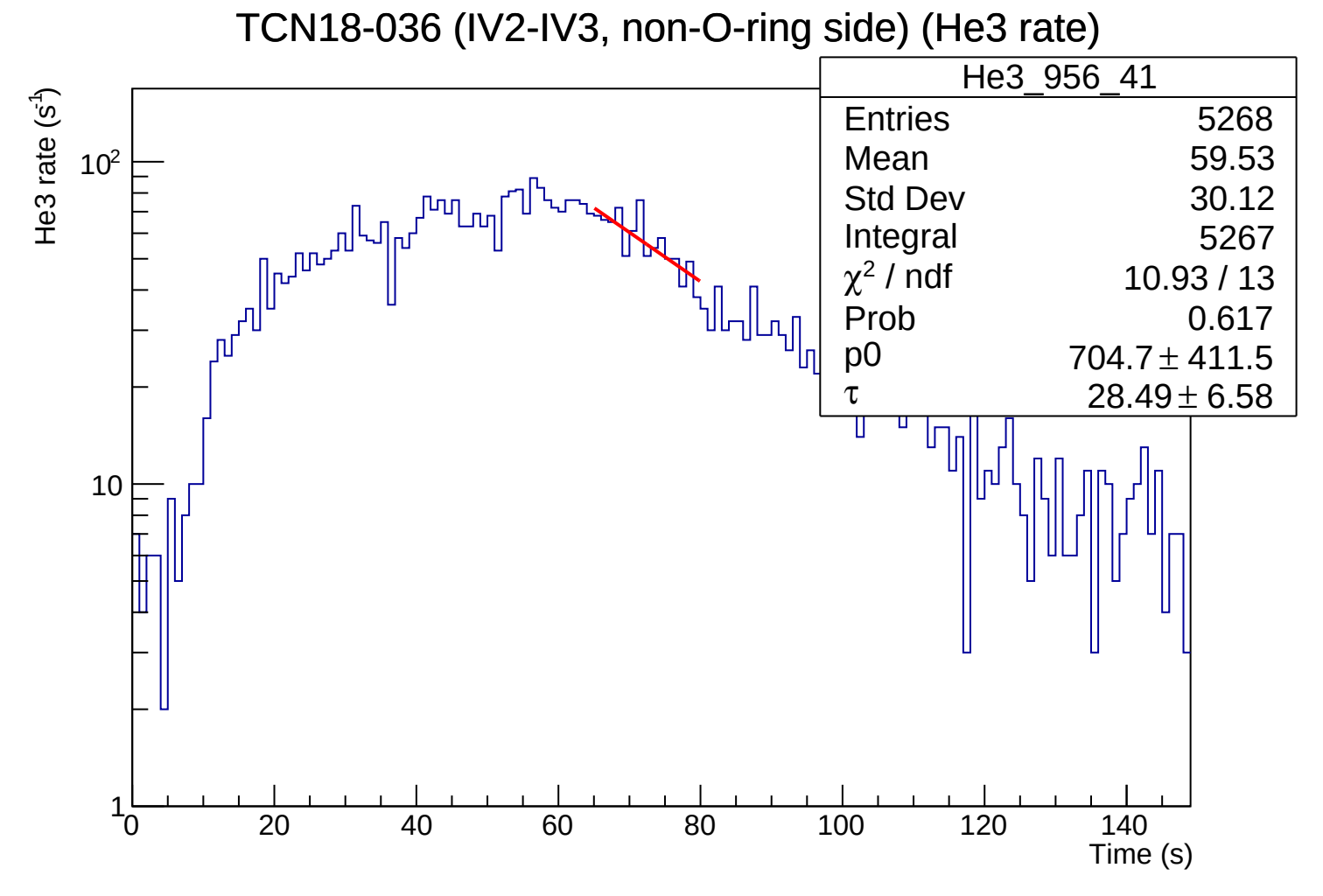

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_956_1
Entries 5141
Mean 59.37
Std Dev 30.18
Integral 5134
χ² / ndf 18.06 / 13
Prob 0.1552
p0 359 ± 230.5
τ 37.12 ± 12.26
He3 rate (s⁻¹)
10²
10
0
20
40
60
80
100
120
140
Time (s)

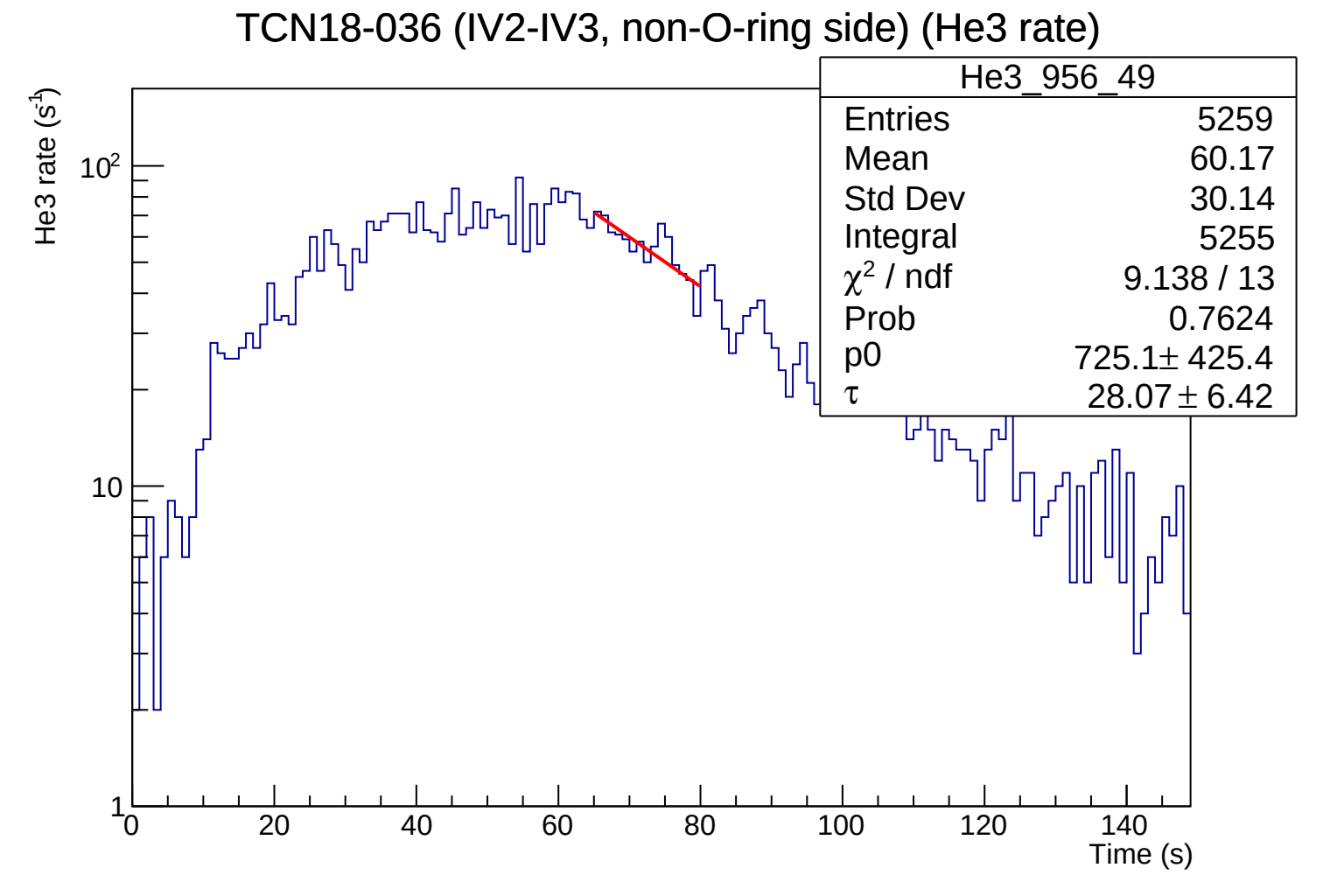

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_956_9
Entries 5265
Mean 60.37
Std Dev 30.78
Integral 5259
χ² / ndf 10.28 / 13
Prob 0.671
p0 251.5 ± 156.4
τ 45.71 ± 17.98
He3 rate (s⁻¹)
10²
10
0
20
40
60
80
100
120
140
Time (s)

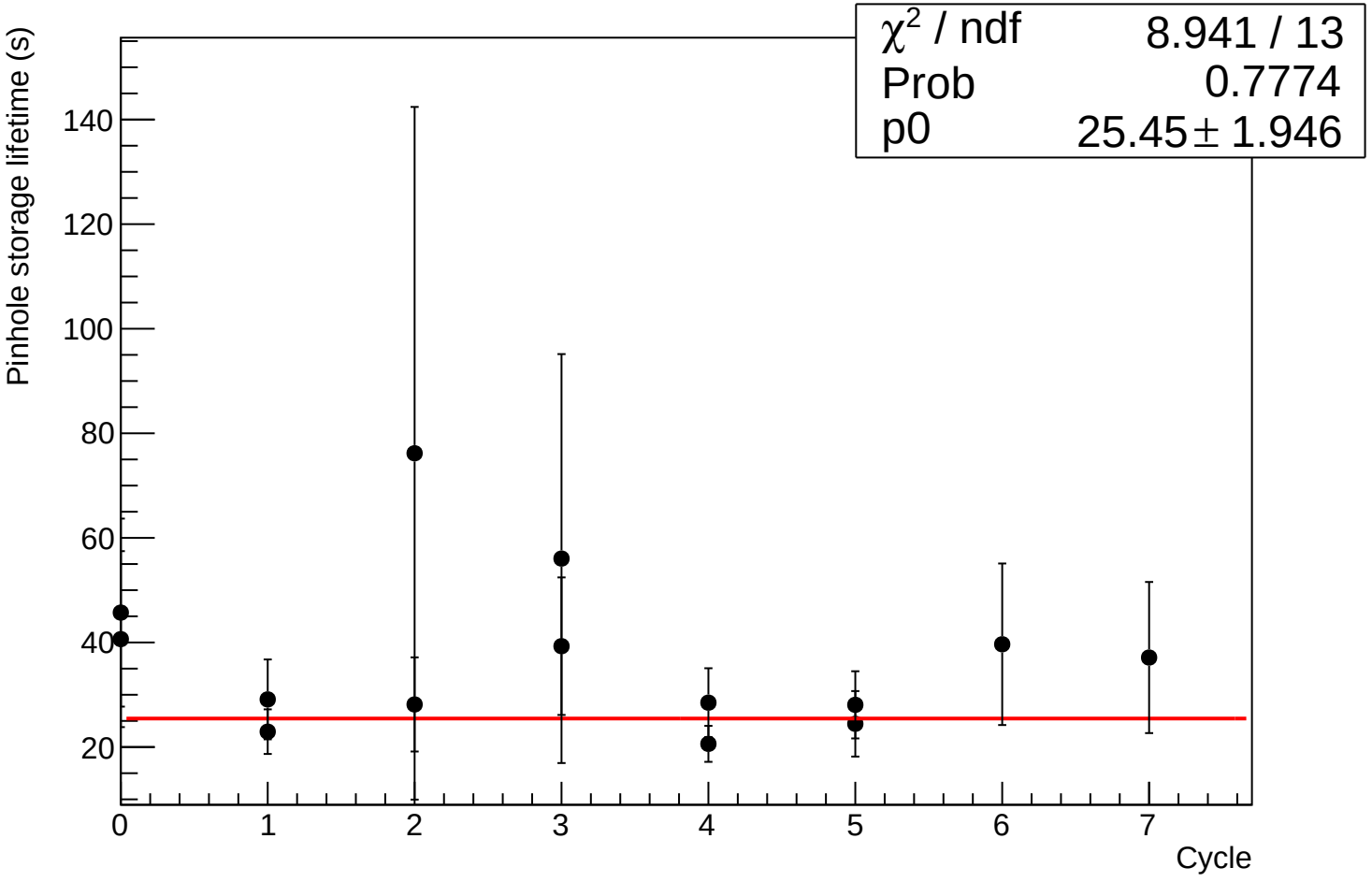

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_956_17
Entries 5170
Mean 60.24
Std Dev 30.18
Integral 5168
χ² / ndf 12.38 / 13
Prob 0.4966
p0 1242 ± 722.8
τ 22.94 ± 4.26
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
Time (s)

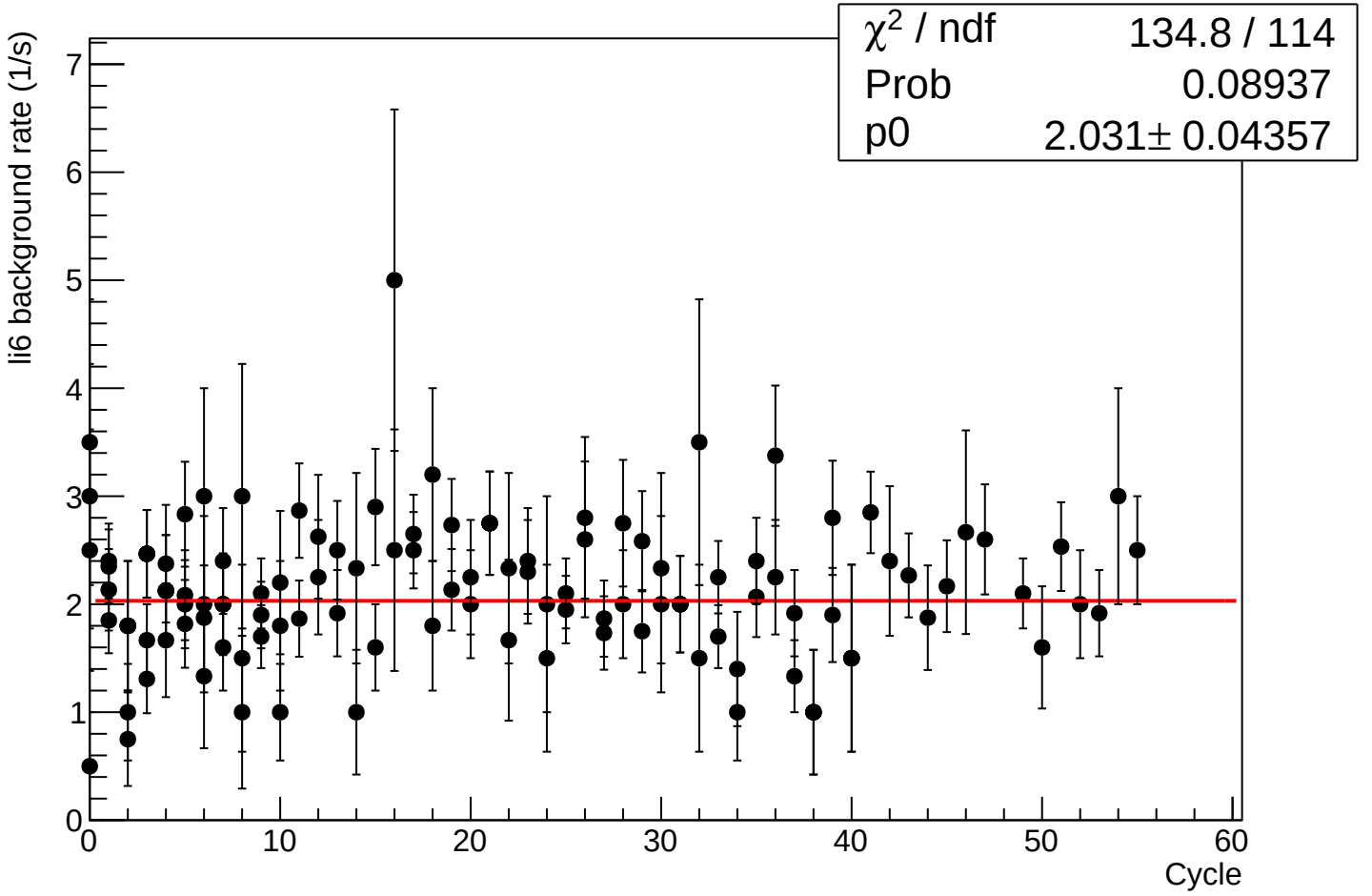

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_956_25
Entries 5183
Mean 59.87
Std Dev 30.51
Integral 5173
χ² / ndf 20.68 / 13
Prob 0.07941
p0 671.2 ± 435.1
τ 28.15 ± 7.14
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
Time (s)

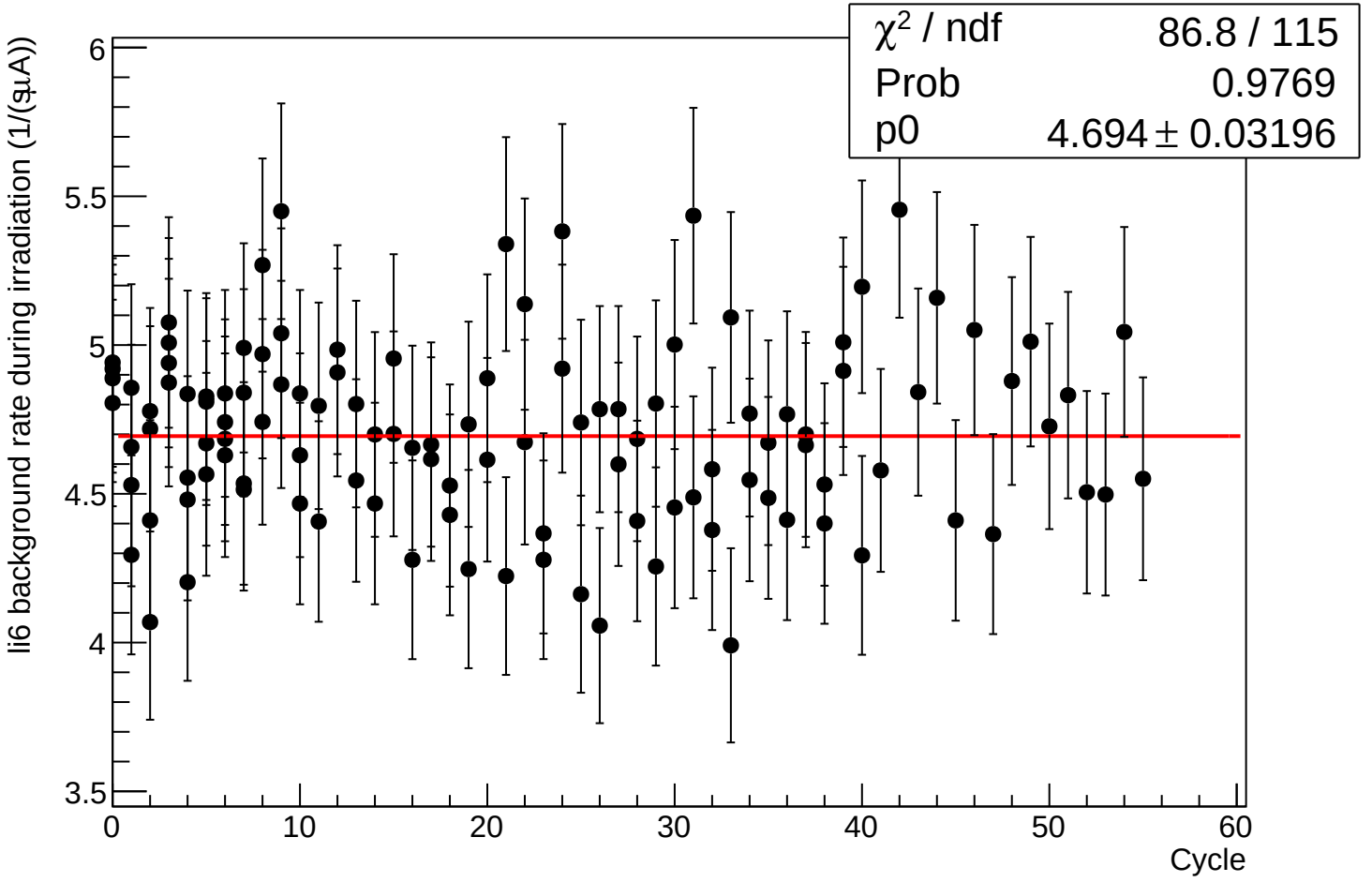

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_956_33
Entries 5153
Mean 60.91
Std Dev 30.93
Integral 5146
χ² / ndf 7.135 / 13
Prob 0.8951
p0 331.7 ± 204.0
τ 39.29 ± 13.15
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
Time (s)

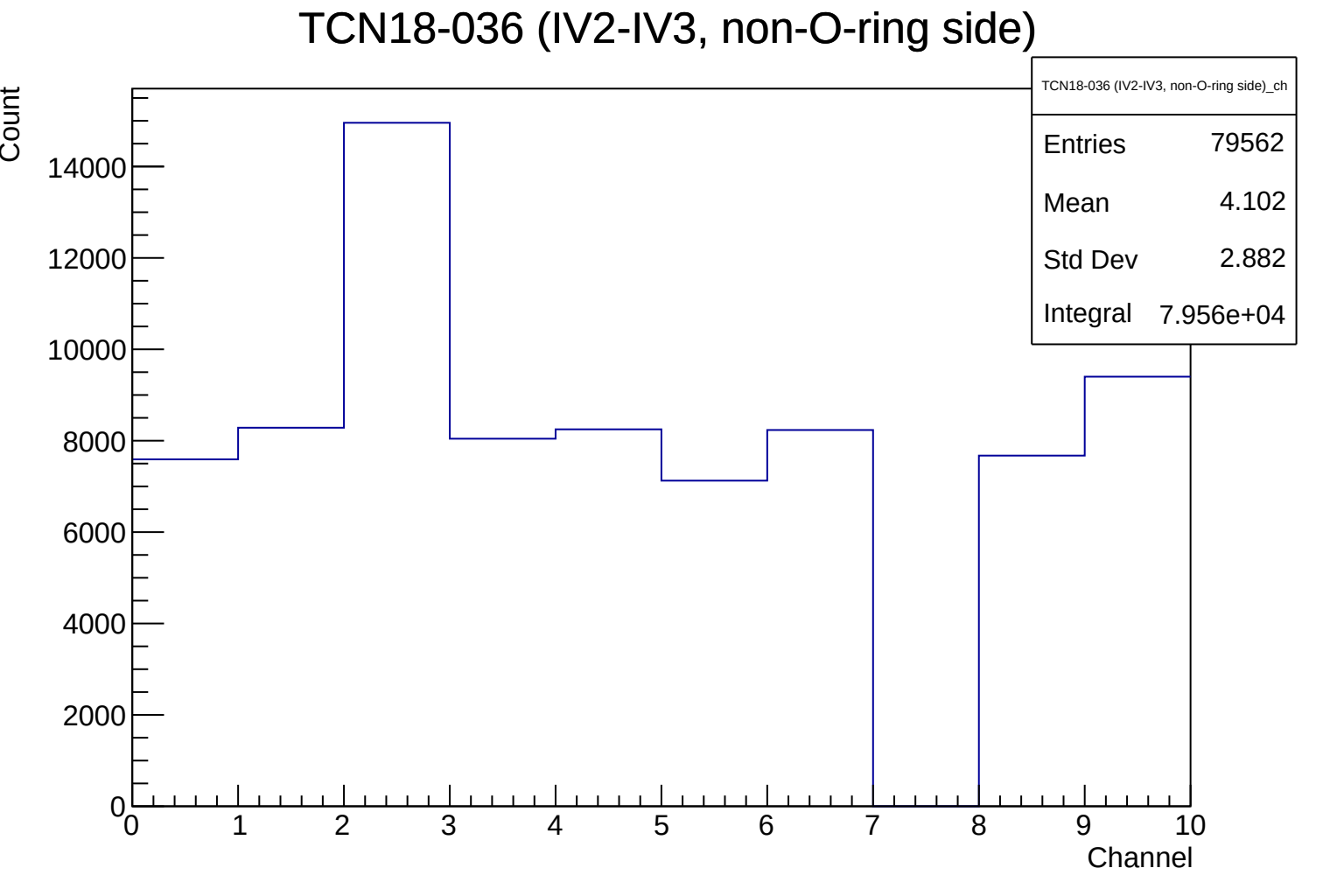

TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_956_41
Entries 5268
Mean 59.53
Std Dev 30.12
Integral 5267
χ² / ndf 10.93 / 13
Prob 0.617
p0 704.7 ± 411.5
τ 28.49 ± 6.58
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
Time (s)


TCN18-036 (IV2-IV3, non-O-ring side) (He3 rate)
He3_956_49
Entries 5259
Mean 60.17
Std Dev 30.14
Integral 5255
χ² / ndf 9.138 / 13
Prob 0.7624
p0 725.1± 425.4
τ 28.07 ± 6.42
He3 rate (s⁻¹)
10²
10
1
0
20
40
60
80
100
120
140
Time (s)


χ^2 / ndf 8.941 / 13
Prob 0.7774
p0 25.45 ± 1.946
Pinhole storage lifetime (s)
140
120
100
80
60
40
20
0
1
2
3
4
5
6
7
Cycle


χ^2 / ndf 134.8 / 114
Prob 0.08937
p0 2.031± 0.04357
li6 background rate (1/s)
Cycle
0
1
2
3
4
5
6
7
0
10
20
30
40
50
60


χ^2 / ndf 86.8 / 115
Prob 0.9769
p0 4.694 ± 0.03196
li6 background rate during irradiation (1/(μA))
Cycle
6
5.5
5
4.5
4
3.5
0
10
20
30
40
50
60


TCN18-036 (IV2-IV3, non-O-ring side)
TCN18-036 (IV2-IV3, non-O-ring side)_ch
Entries 79562
Mean 4.102
Std Dev 2.882
Integral 7.956e+04
Count
14000
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10
Channel