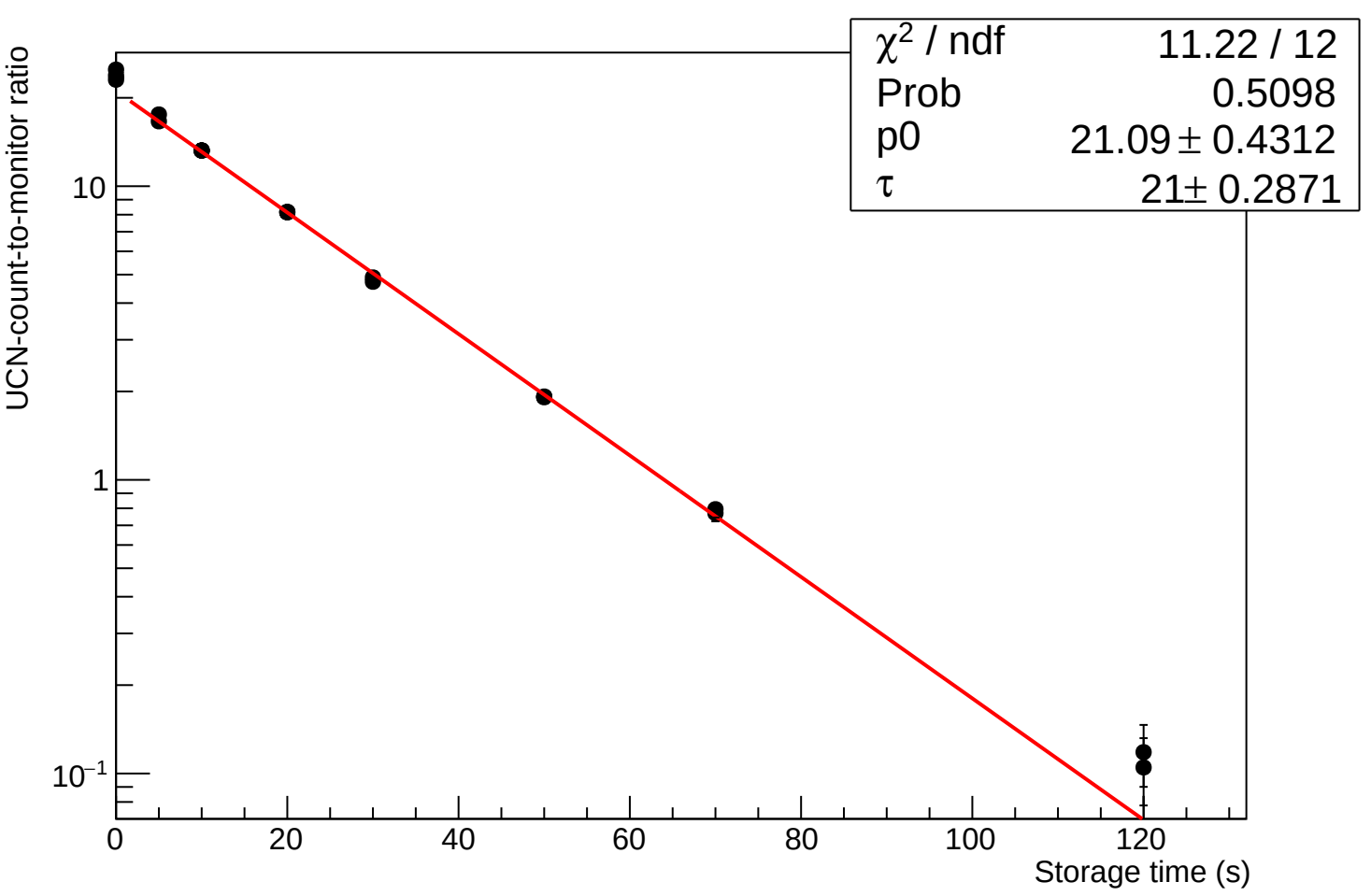
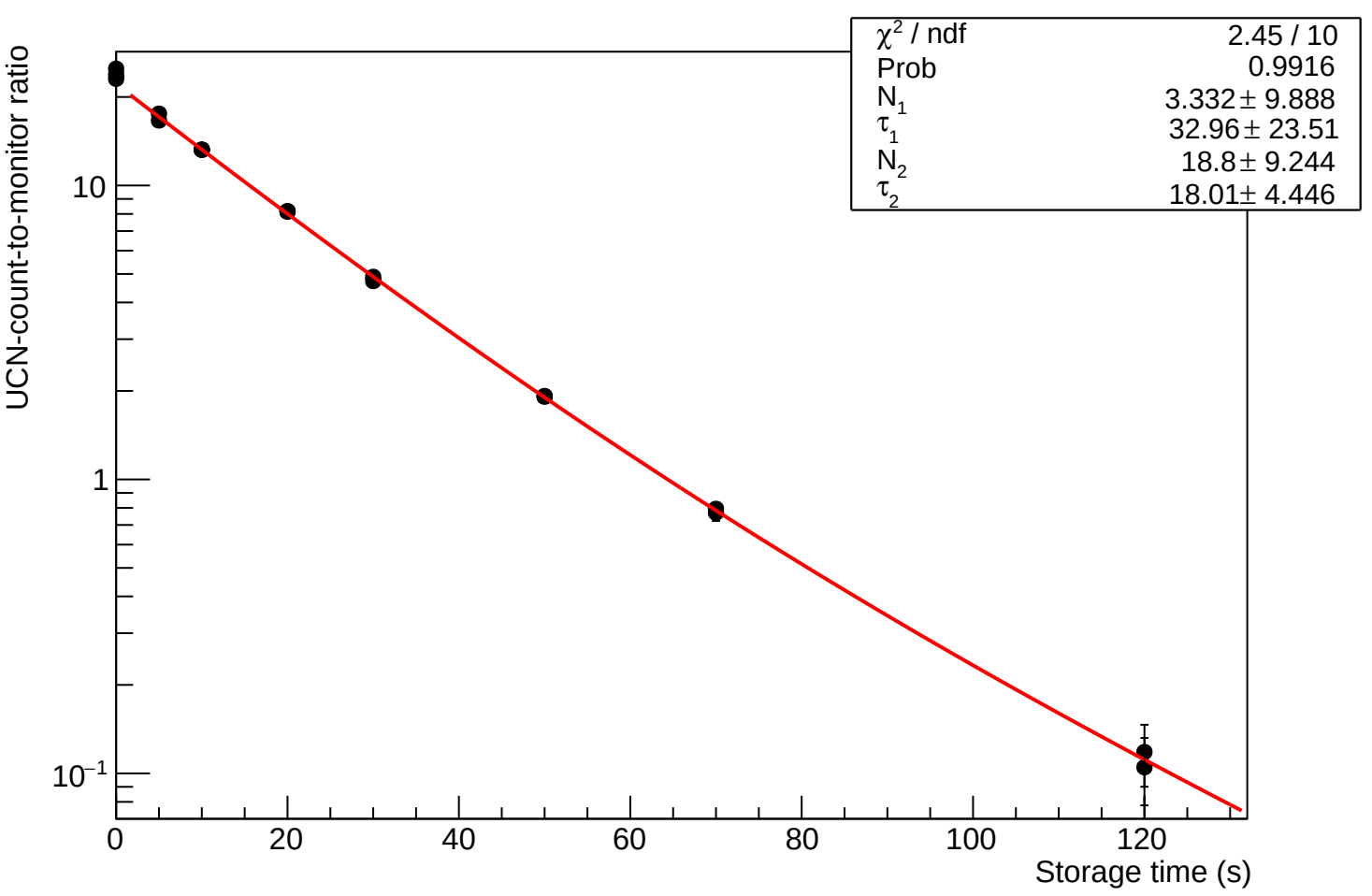
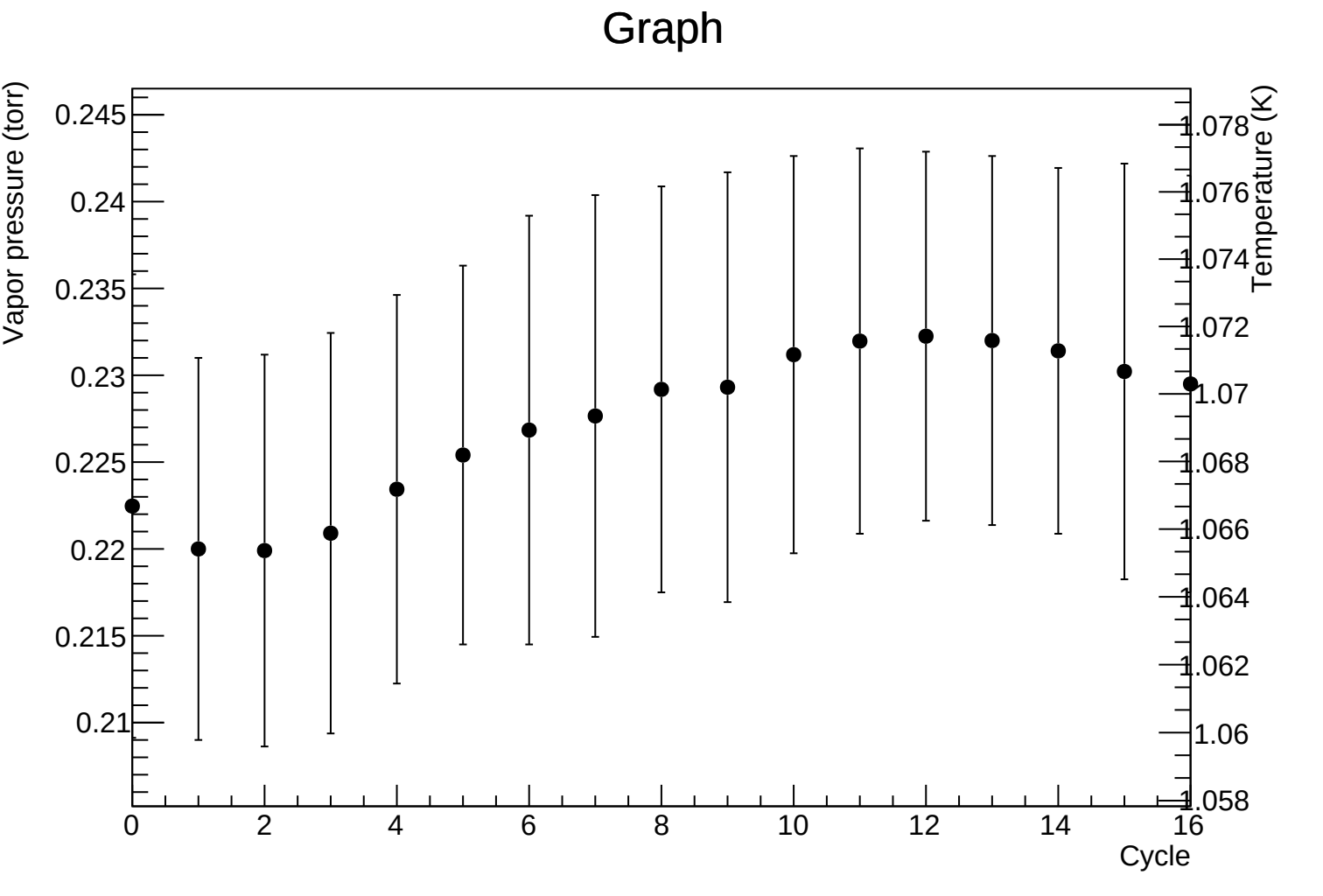
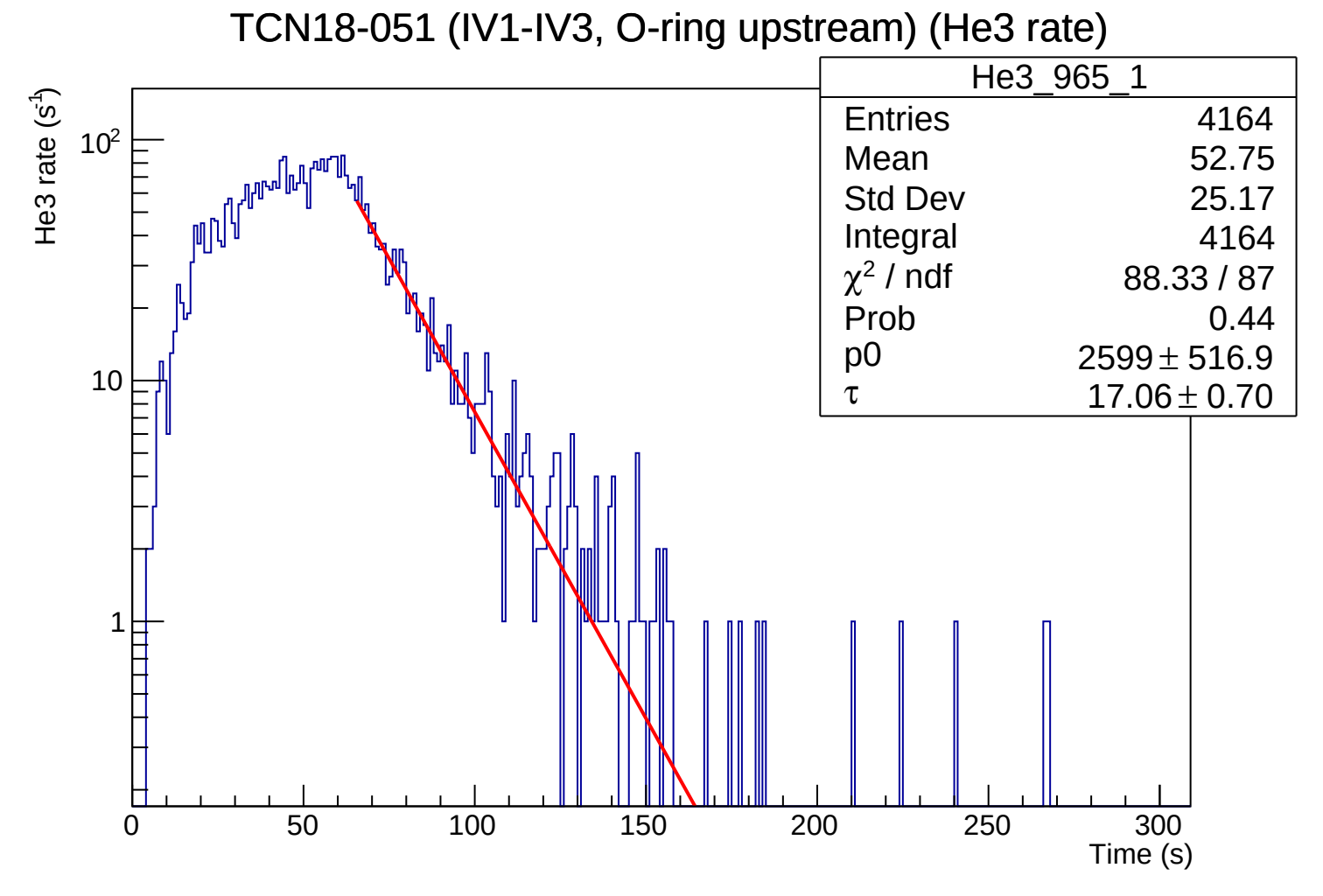
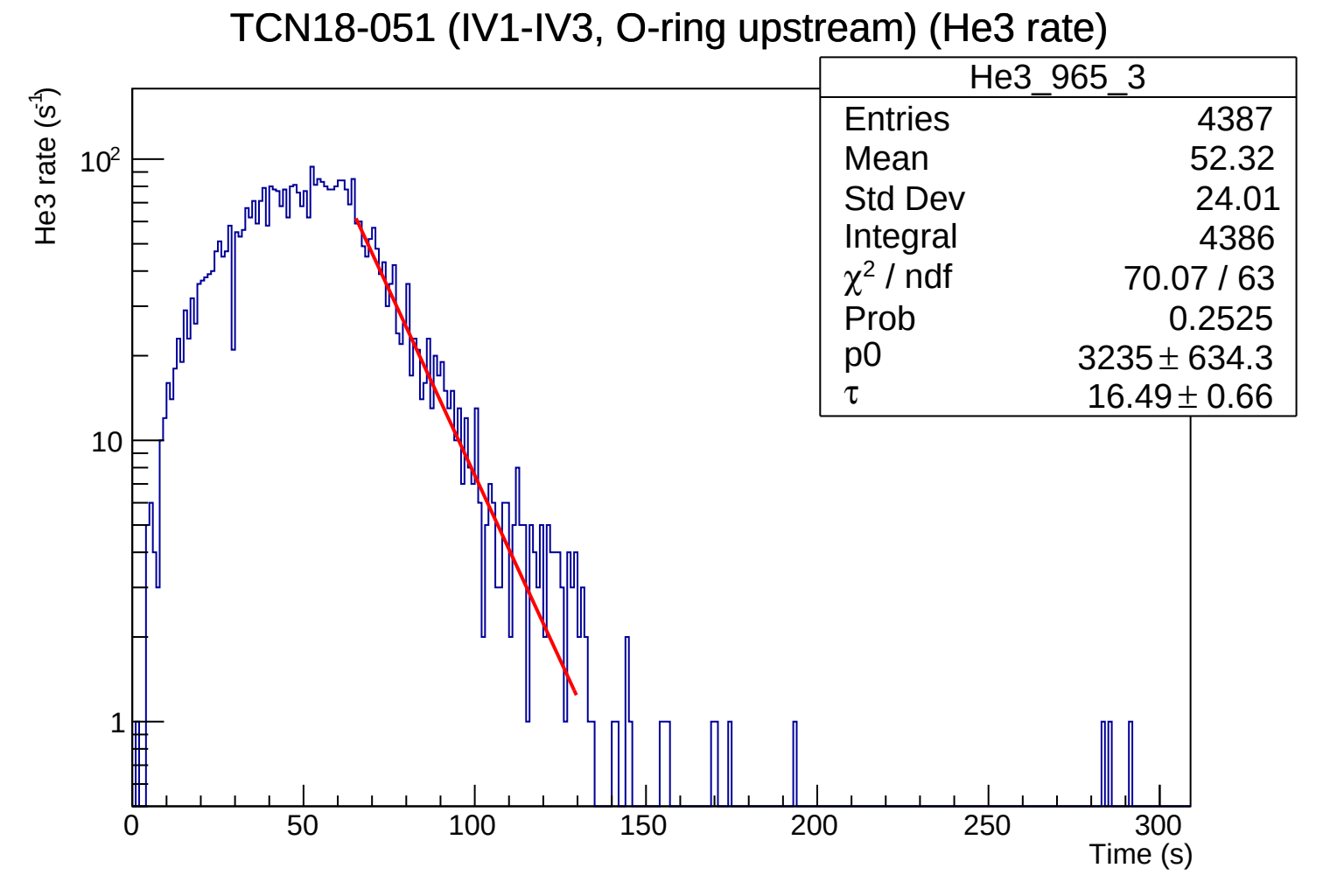
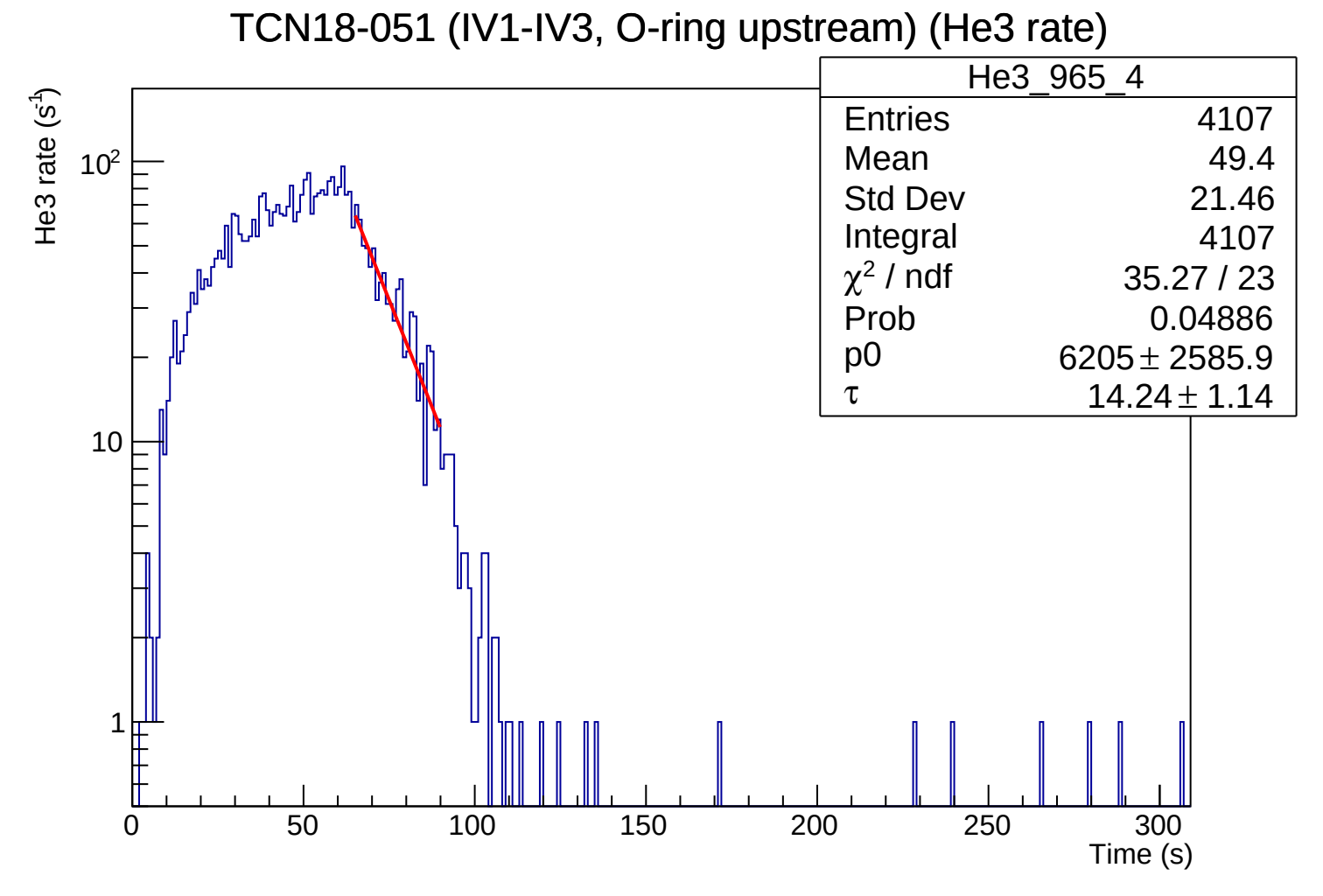

TCN18-051 (IV1-IV3, O-ring upstream) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 11.22 / 12
Prob 0.5098
p0 21.09 ± 0.4312
τ 21 ± 0.2871
UCN-count-to-monitor ratio
10
1
10⁻¹
0
20
40
60
80
100
120
Storage time (s)

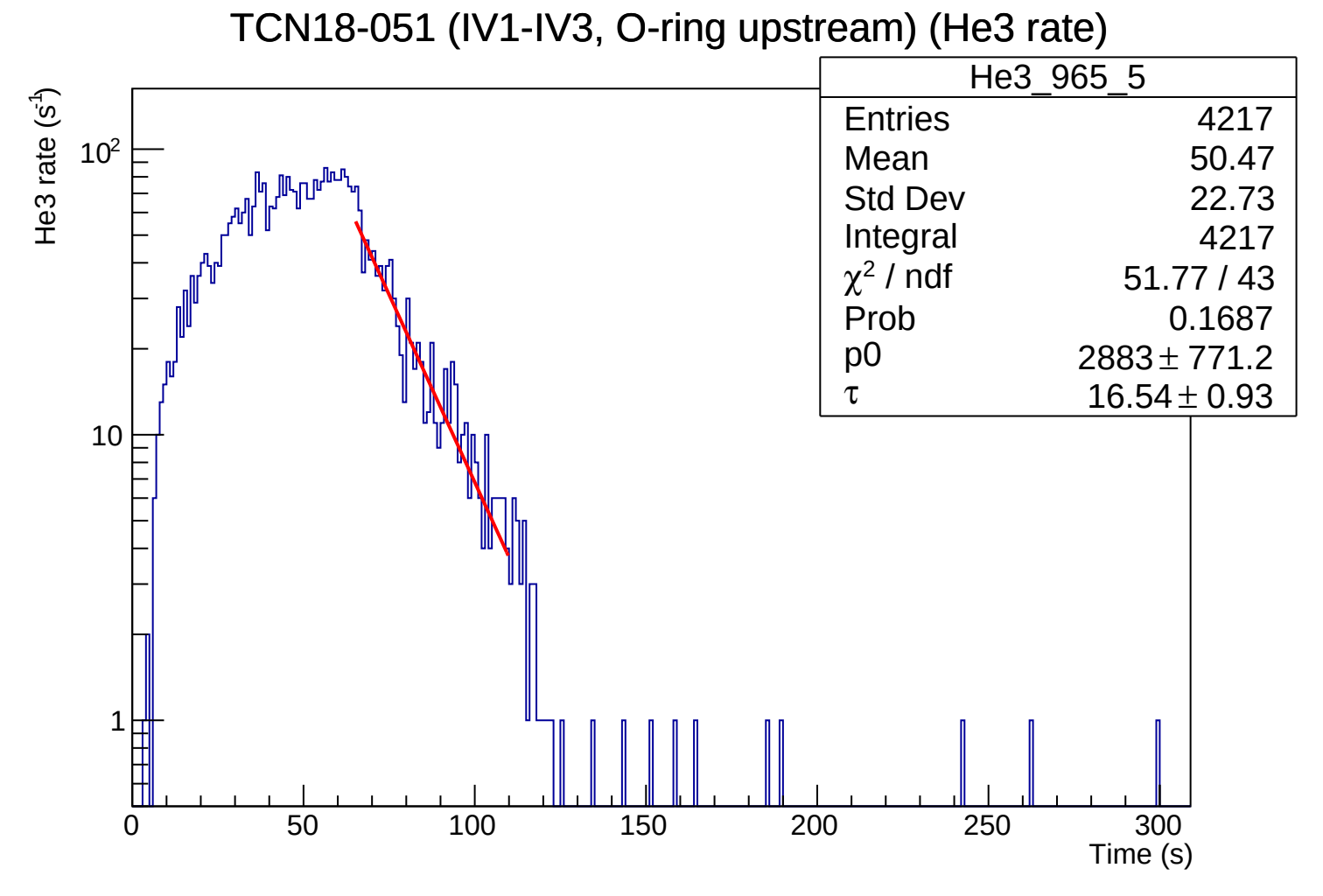

TCN18-051 (IV1-IV3, O-ring upstream) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 2.45 / 10
Prob 0.9916
N1 3.332 ± 9.888
τ1 32.96 ± 23.51
N2 18.8 ± 9.244
τ2 18.01 ± 4.446
UCN-count-to-monitor ratio
10
1
10⁻¹
0
20
40
60
80
100
120
Storage time (s)

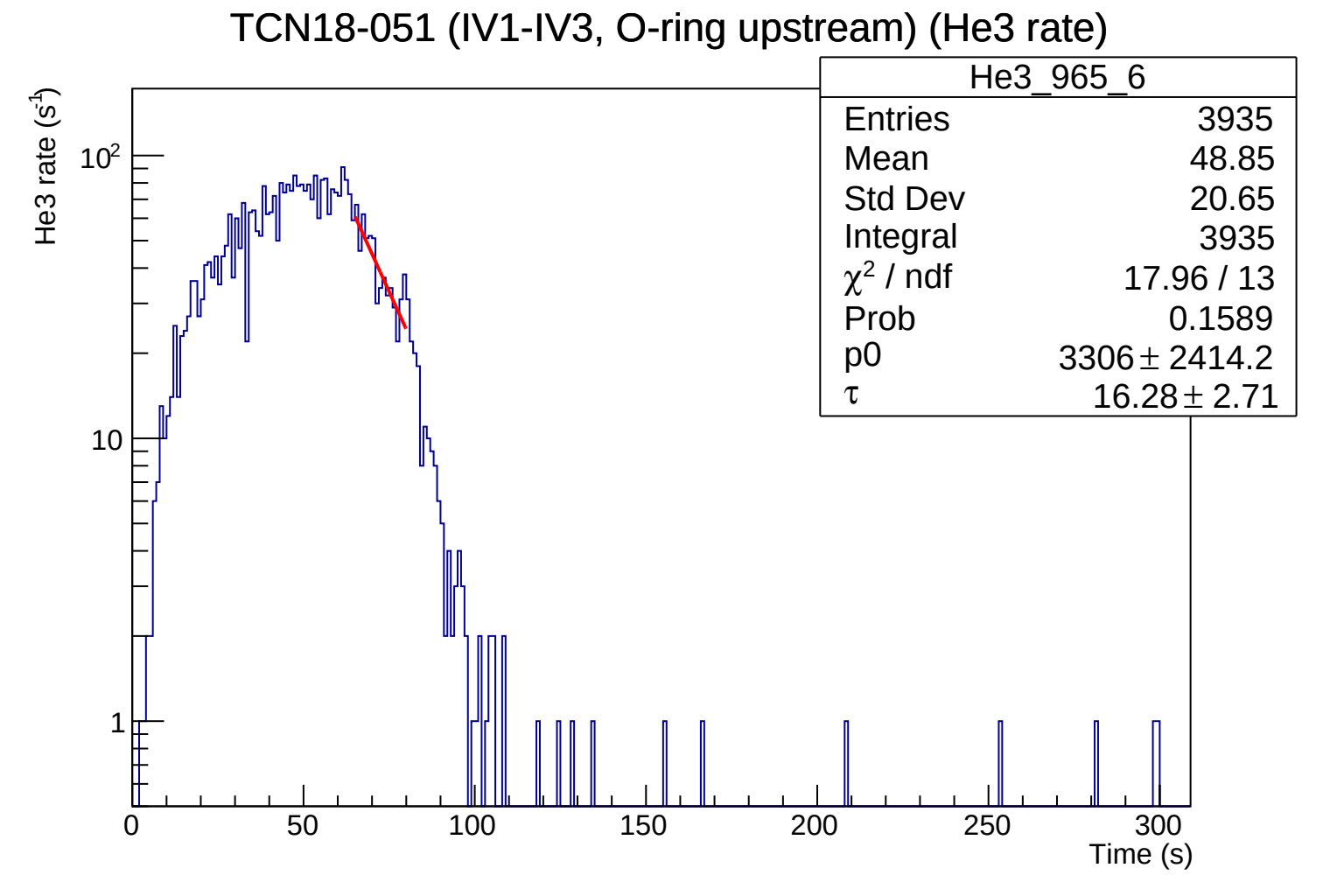

Graph
Vapor pressure (torr)
0.245
0.24
0.235
0.23
0.225
0.22
0.215
0.21
Temperature (K)
1.078
1.076
1.074
1.072
1.07
1.068
1.066
1.064
1.062
1.06
1.058
0
2
4
6
8
10
12
14
16
Cycle

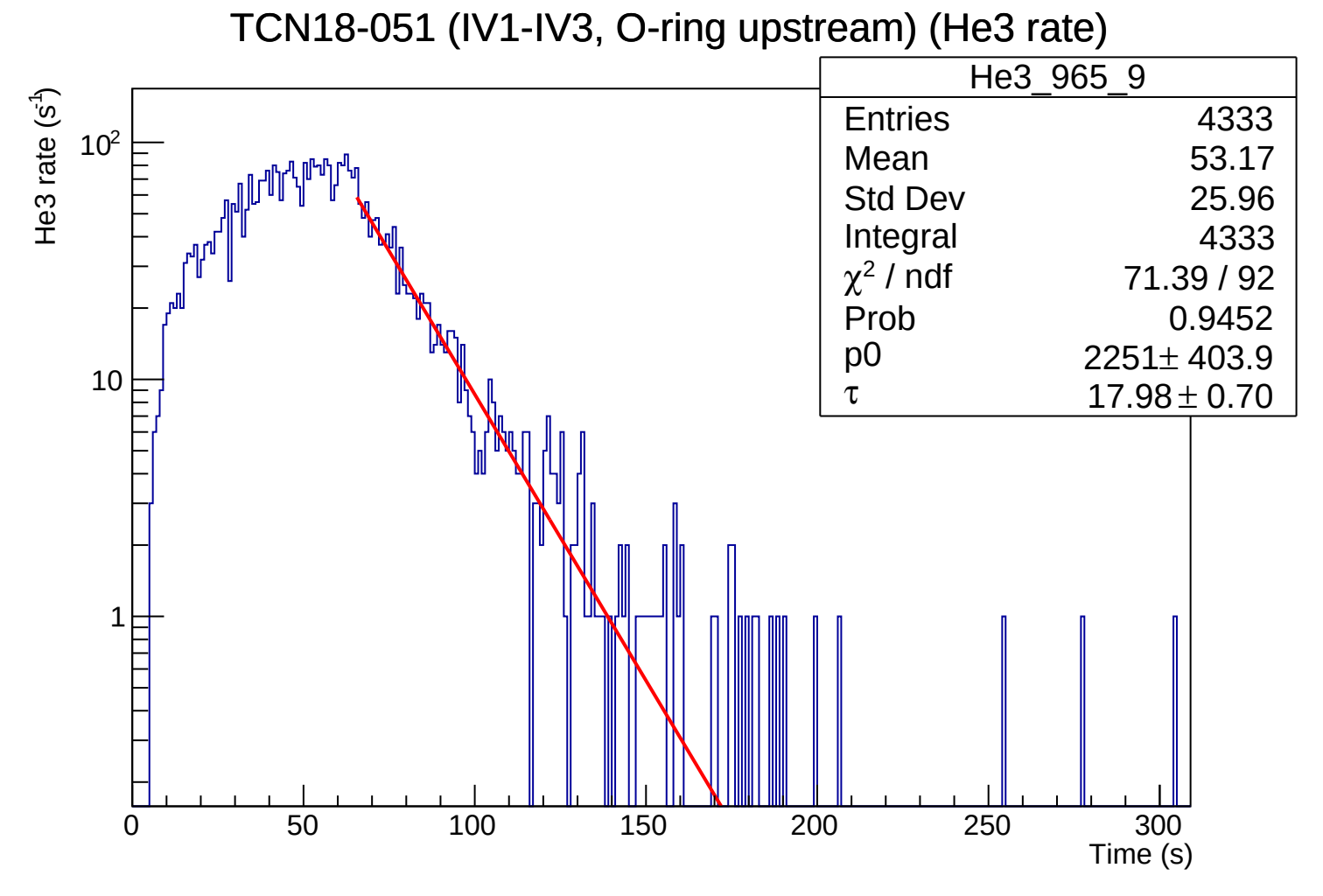

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_1
Entries 4164
Mean 52.75
Std Dev 25.17
Integral 4164
χ² / ndf 88.33 / 87
Prob 0.44
p0 2599 ± 516.9
τ 17.06 ± 0.70
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

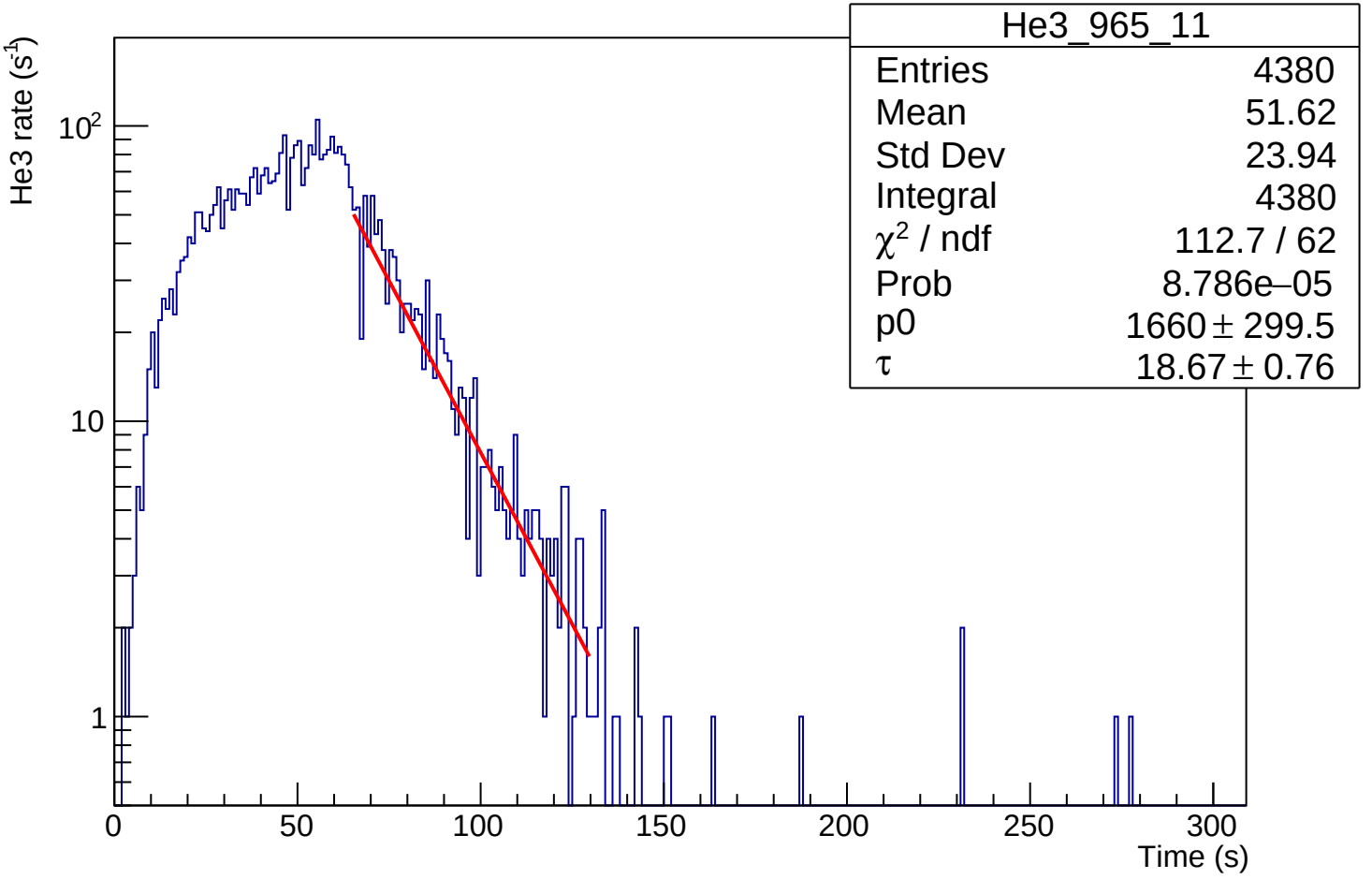

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_3
Entries 4387
Mean 52.32
Std Dev 24.01
Integral 4386
χ² / ndf 70.07 / 63
Prob 0.2525
p0 3235 ± 634.3
τ 16.49 ± 0.66
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

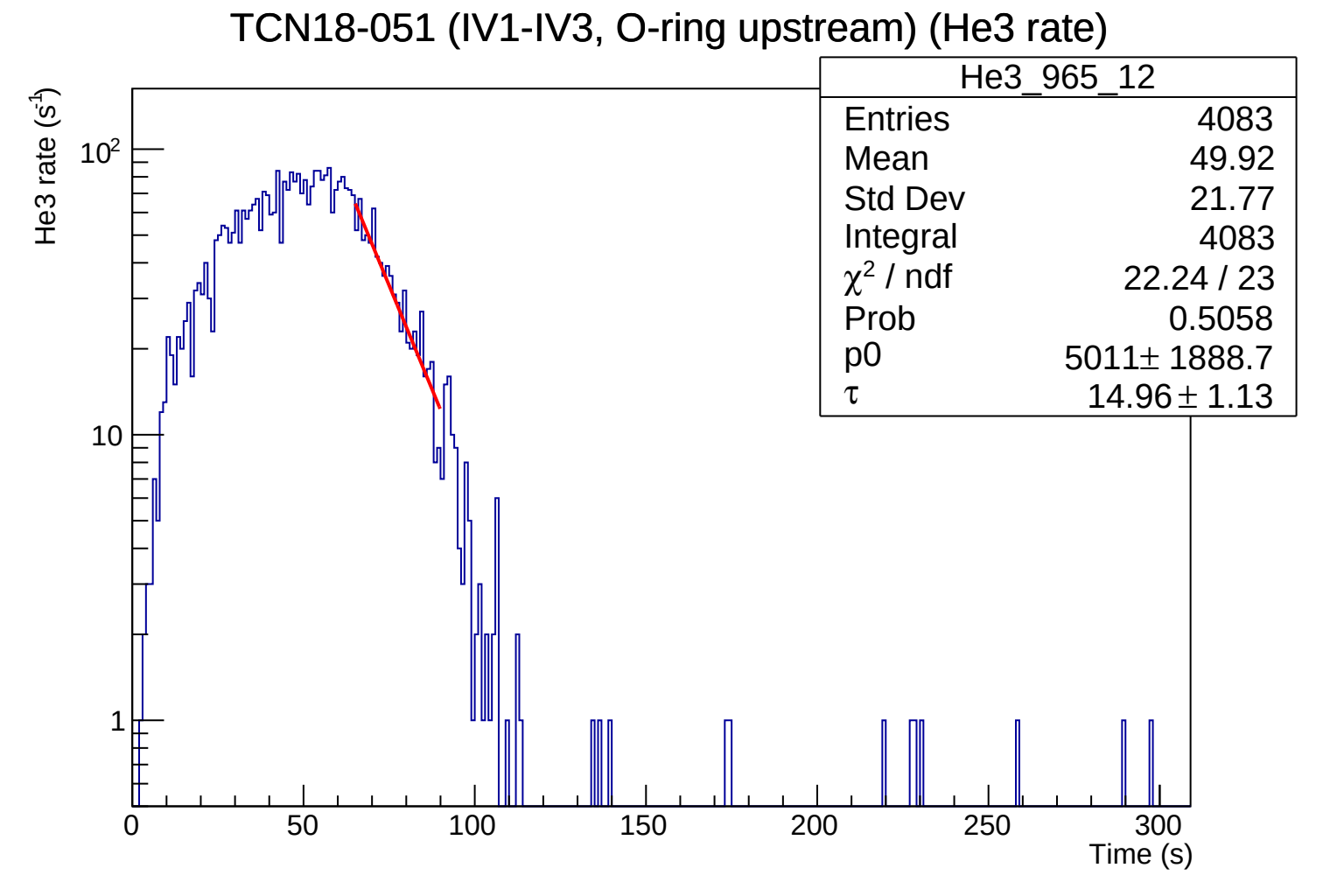

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_4
Entries 4107
Mean 49.4
Std Dev 21.46
Integral 4107
χ² / ndf 35.27 / 23
Prob 0.04886
p0 6205 ± 2585.9
τ 14.24 ± 1.14
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

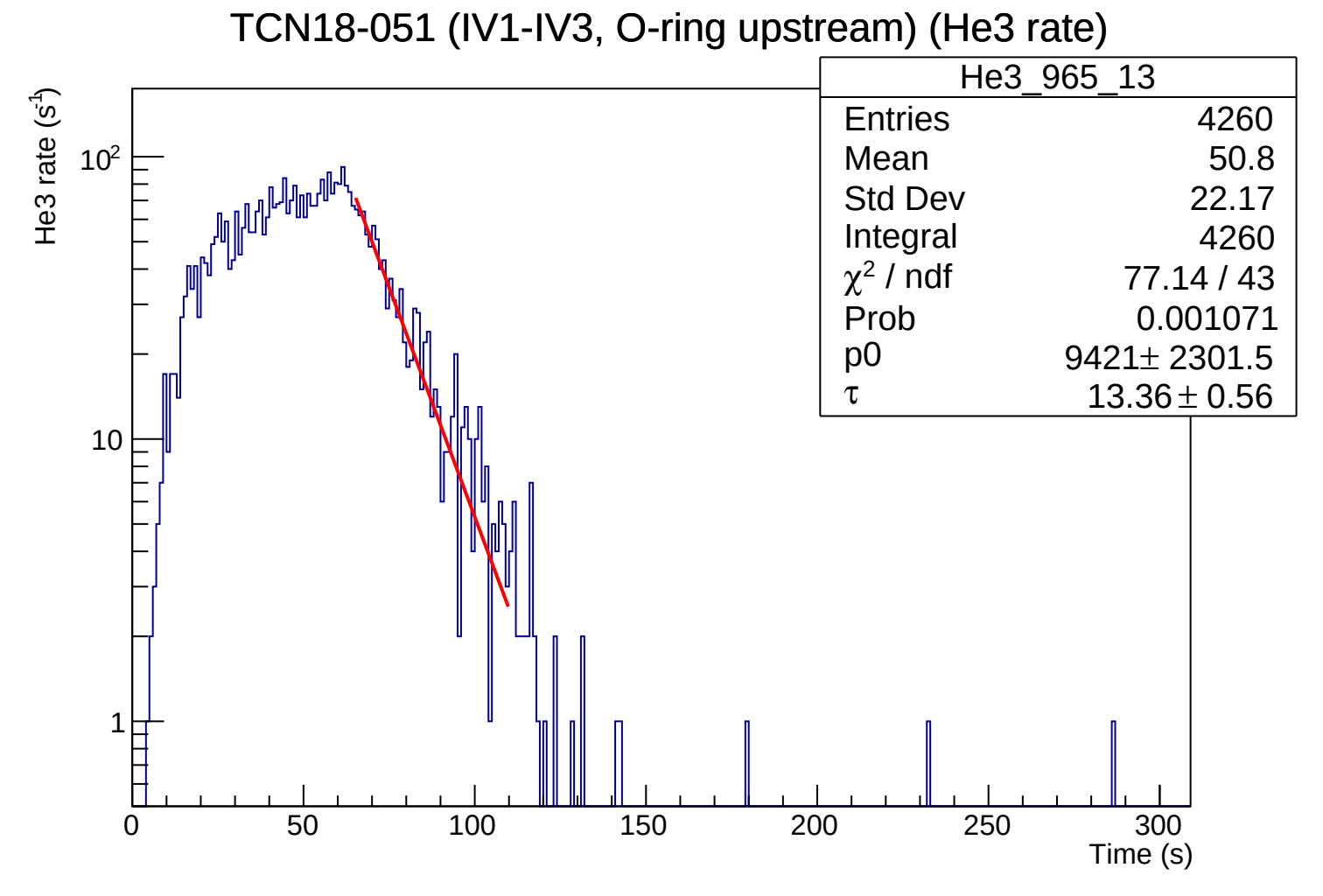

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_5
Entries 4217
Mean 50.47
Std Dev 22.73
Integral 4217
χ² / ndf 51.77 / 43
Prob 0.1687
p0 2883 ± 771.2
τ 16.54 ± 0.93
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

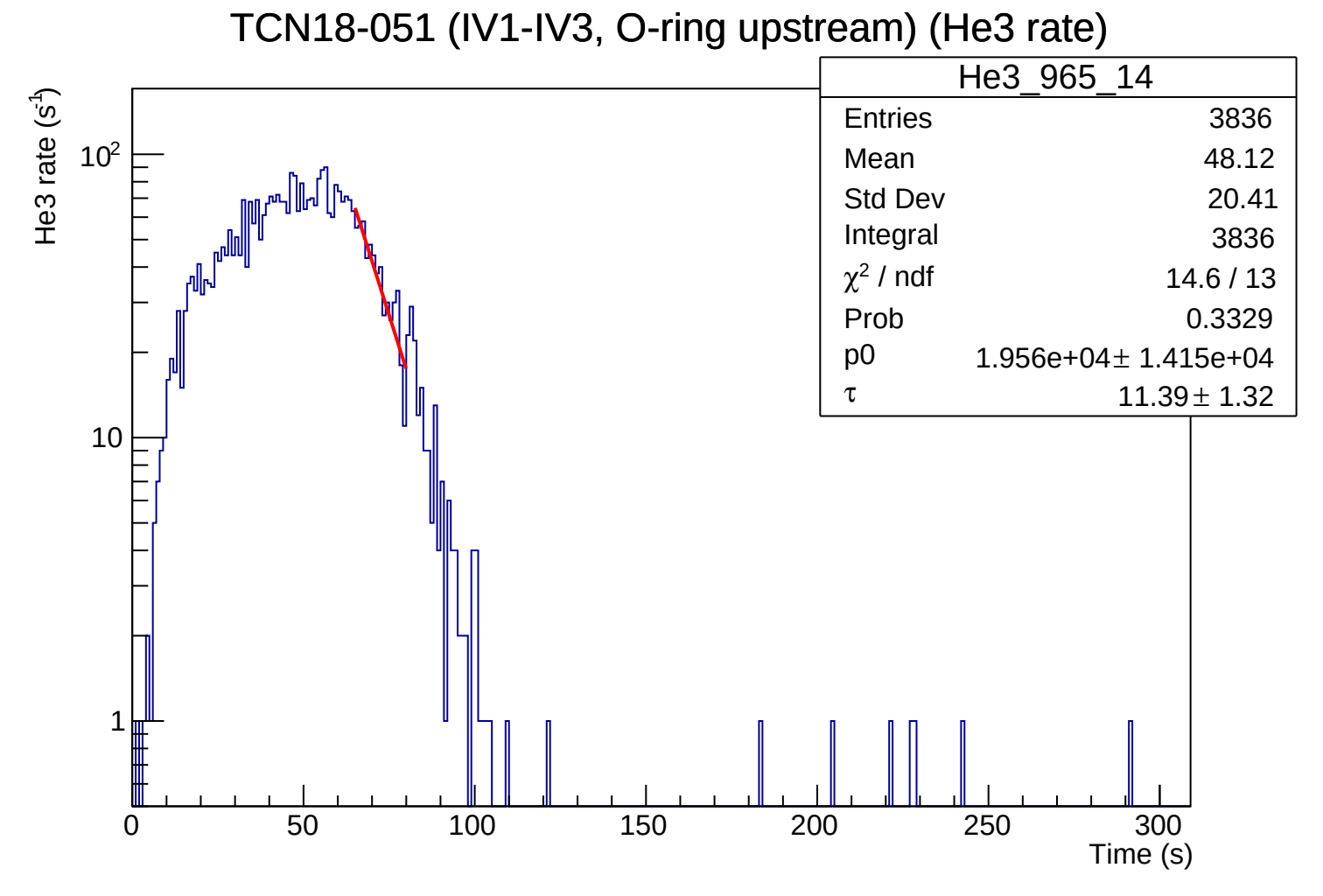

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_6
Entries 3935
Mean 48.85
Std Dev 20.65
Integral 3935
χ² / ndf 17.96 / 13
Prob 0.1589
p0 3306 ± 2414.2
τ 16.28 ± 2.71
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

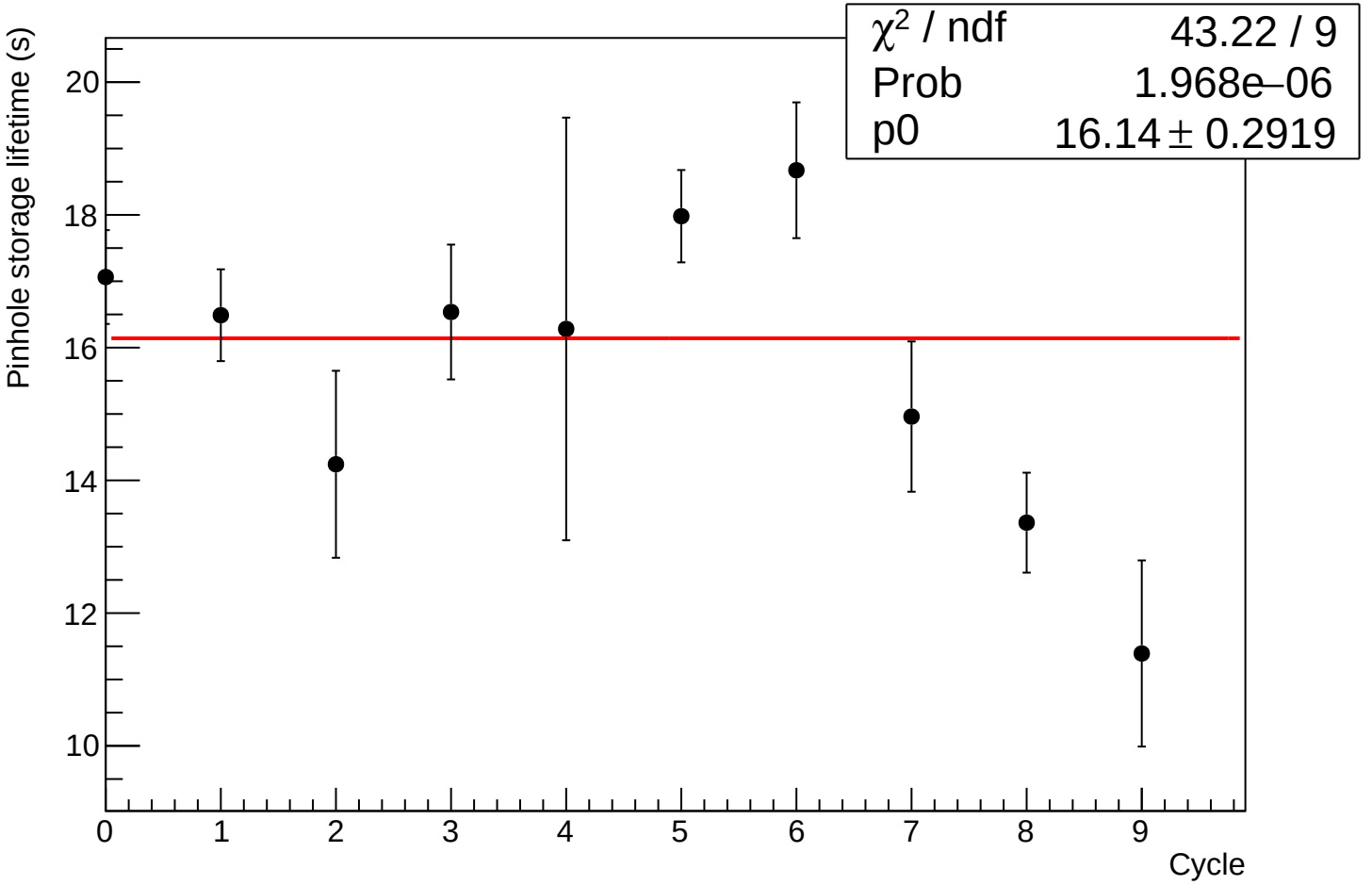

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_9
Entries 4333
Mean 53.17
Std Dev 25.96
Integral 4333
χ² / ndf 71.39 / 92
Prob 0.9452
p0 2251 ± 403.9
τ 17.98 ± 0.70
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

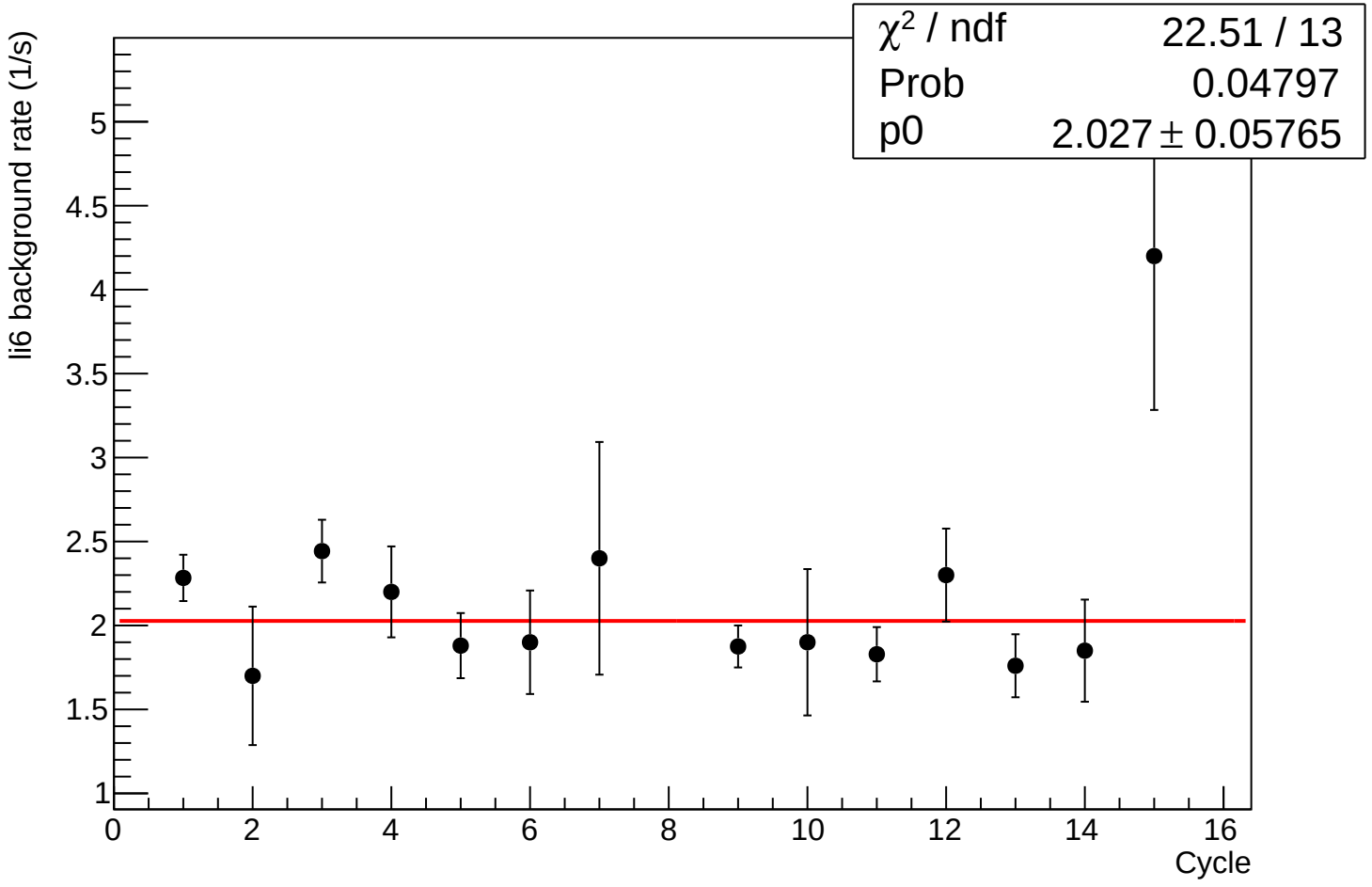

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_11
Entries 4380
Mean 51.62
Std Dev 23.94
Integral 4380
χ² / ndf 112.7 / 62
Prob 8.786e–05
p0 1660 ± 299.5
τ 18.67 ± 0.76
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

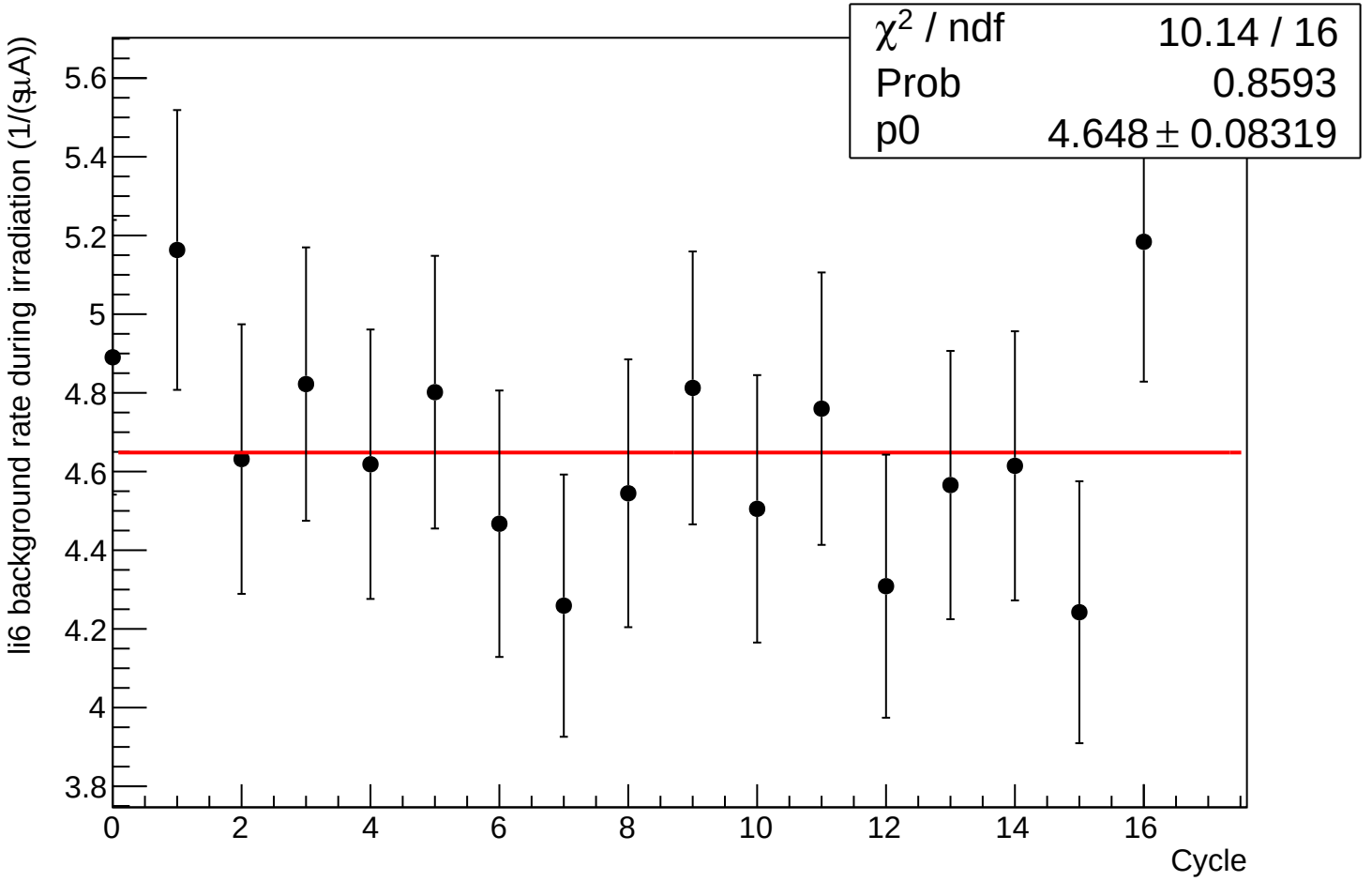

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_12
Entries 4083
Mean 49.92
Std Dev 21.77
Integral 4083
χ² / ndf 22.24 / 23
Prob 0.5058
p0 5011± 1888.7
τ 14.96 ± 1.13
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_13
Entries 4260
Mean 50.8
Std Dev 22.17
Integral 4260
χ² / ndf 77.14 / 43
Prob 0.001071
p0 9421± 2301.5
τ 13.36 ± 0.56
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)

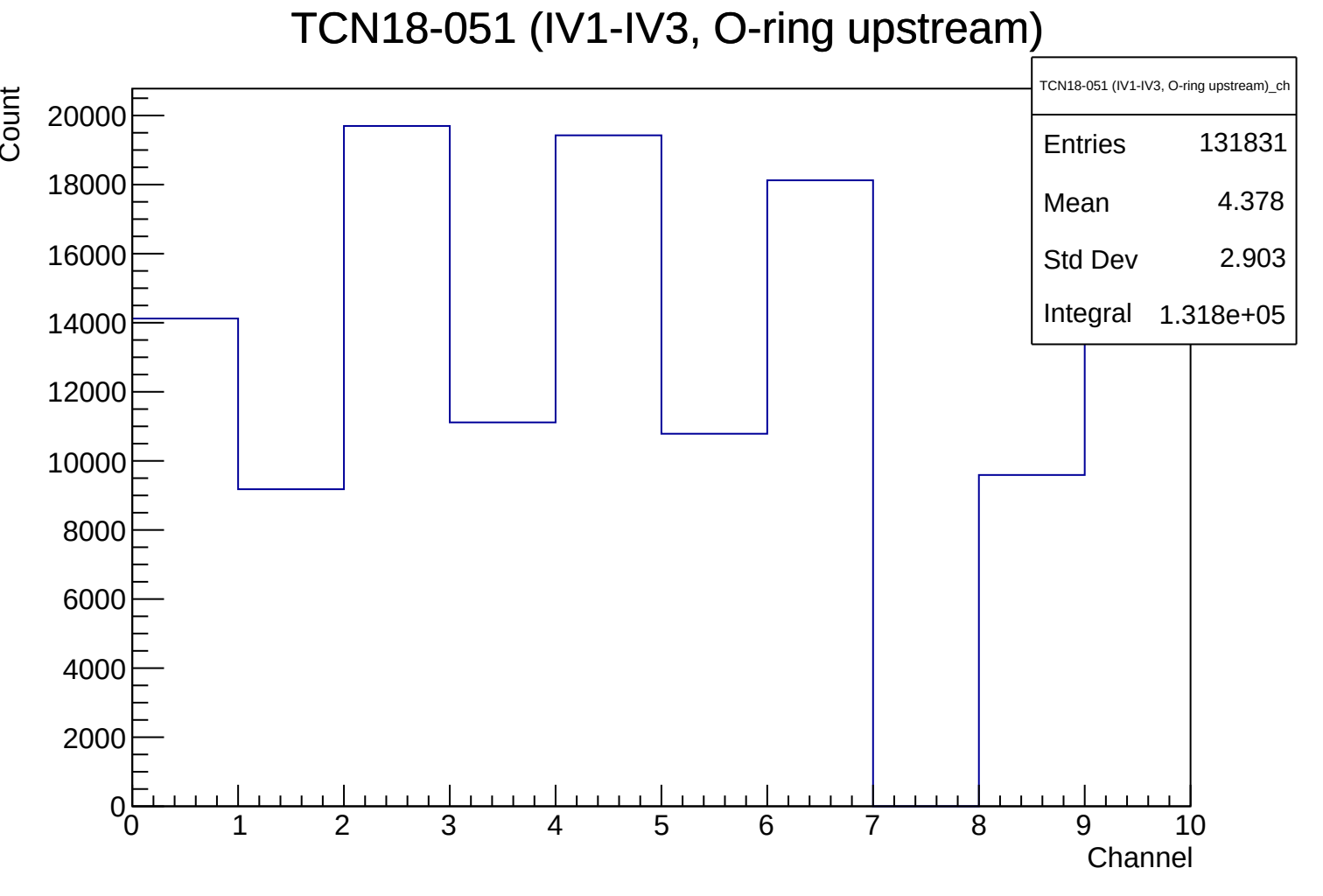

TCN18-051 (IV1-IV3, O-ring upstream) (He3 rate)
He3_965_14
Entries 3836
Mean 48.12
Std Dev 20.41
Integral 3836
χ² / ndf 14.6 / 13
Prob 0.3329
p0 1.956e+04 ± 1.415e+04
τ 11.39 ± 1.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
300
Time (s)


χ^2 / ndf 43.22 / 9
Prob 1.968e−06
p0 16.14 ± 0.2919
Pinhole storage lifetime (s)
20
18
16
14
12
10
0
1
2
3
4
5
6
7
8
9
Cycle


li6 background rate (1/s)
Cycle
χ² / ndf 22.51 / 13
Prob 0.04797
p0 2.027 ± 0.05765
1
1.5
2
2.5
3
3.5
4
4.5
5
0
2
4
6
8
10
12
14
16



χ^2 / ndf 10.14 / 16
Prob 0.8593
p0 4.648 ± 0.08319
li6 background rate during irradiation (1/(μA))
5.6
5.4
5.2
5
4.8
4.6
4.4
4.2
4
3.8
0
2
4
6
8
10
12
14
16
Cycle


TCN18-051 (IV1-IV3, O-ring upstream)
TCN18-051 (IV1-IV3, O-ring upstream)_ch
Entries 131831
Mean 4.378
Std Dev 2.903
Integral 1.318e+05
Count
Channel
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
1
2
3
4
5
6
7
8
9
10