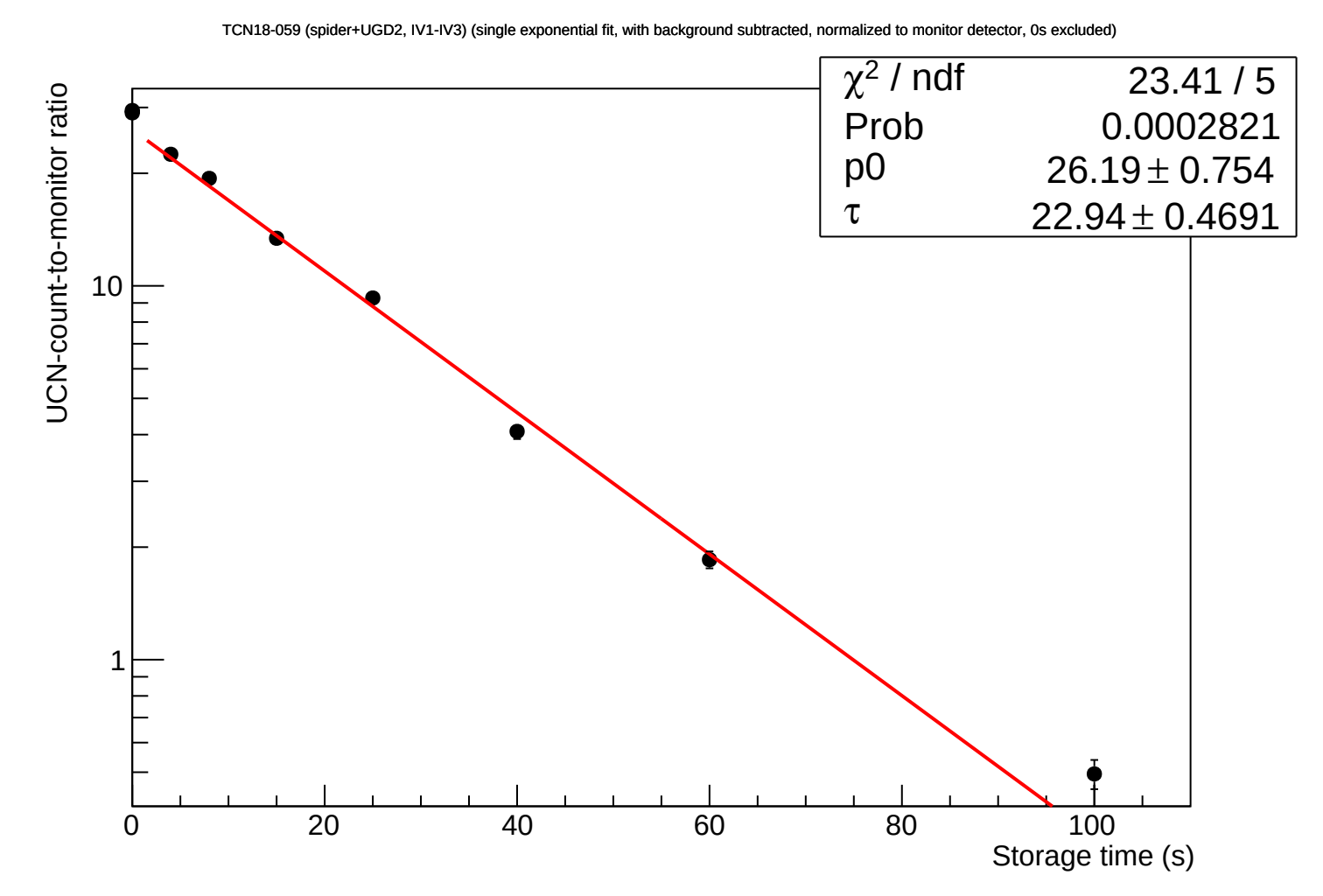
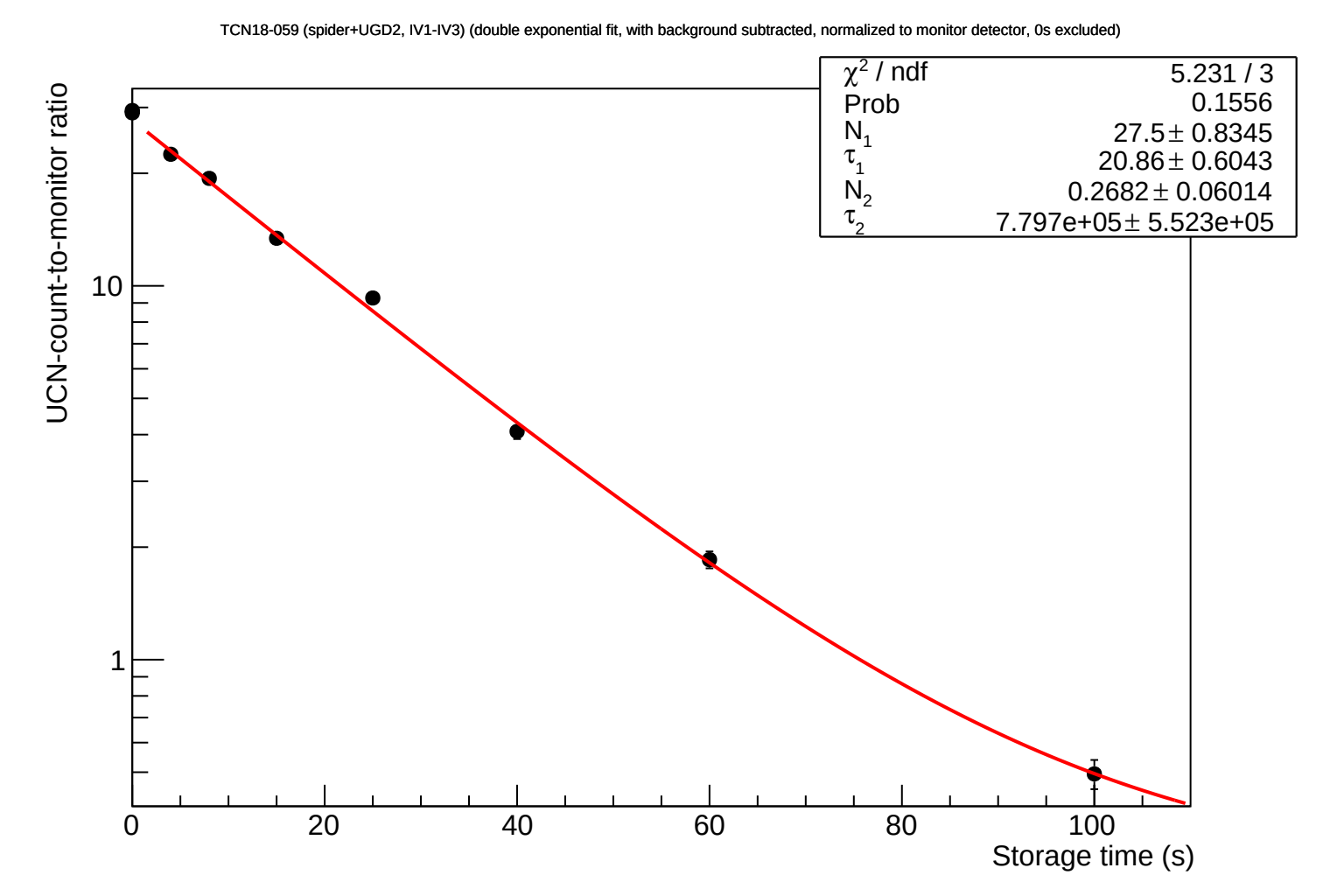
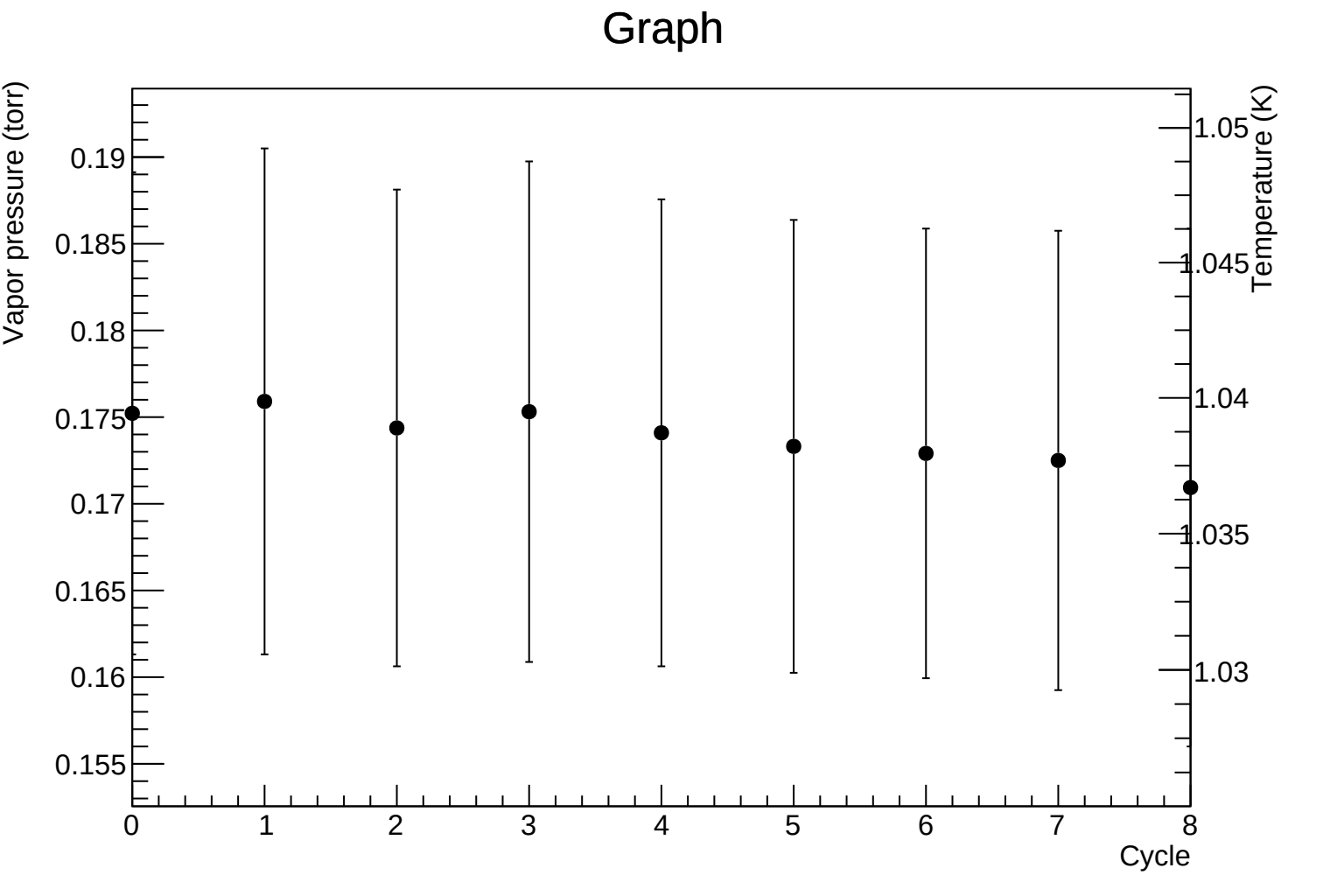
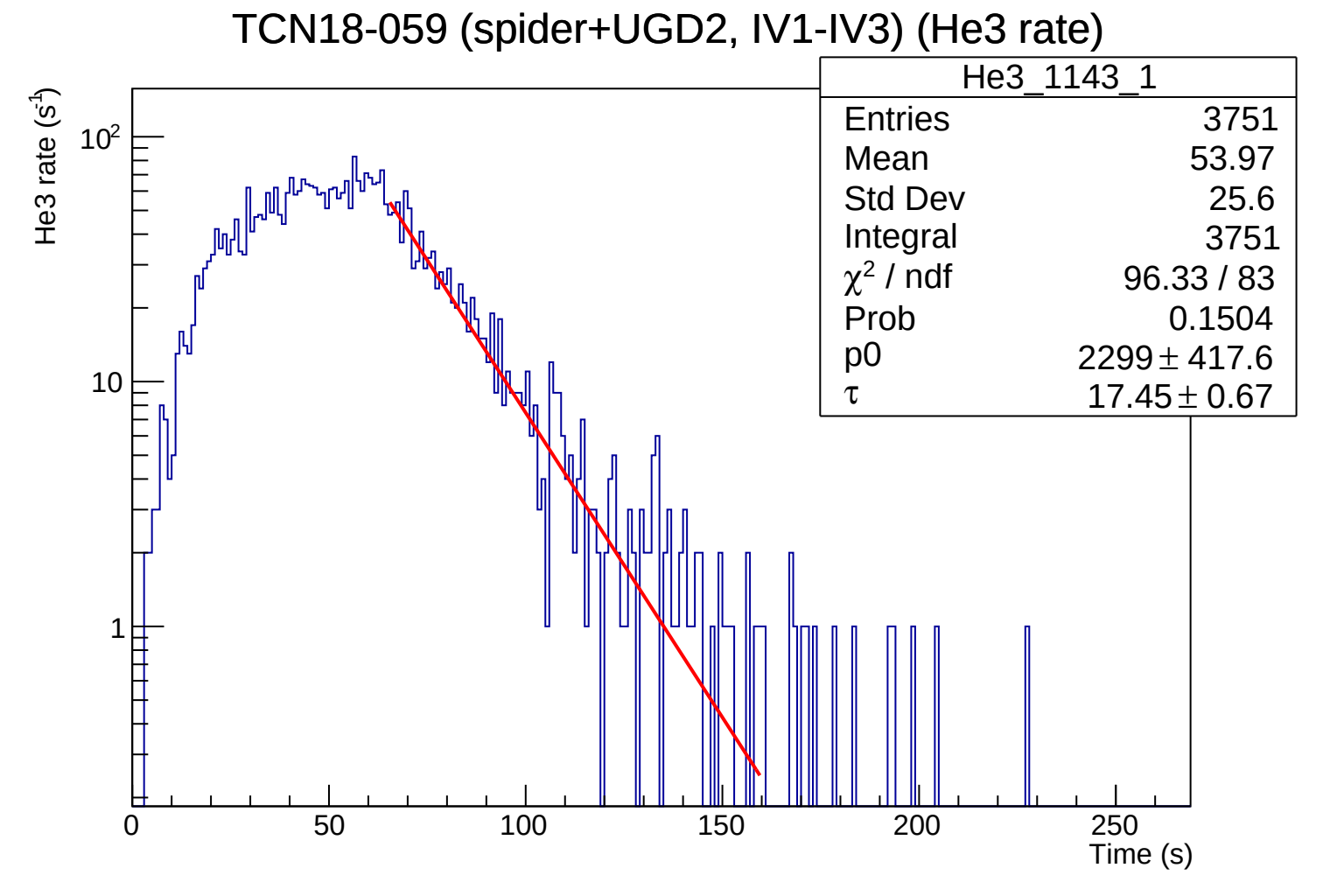
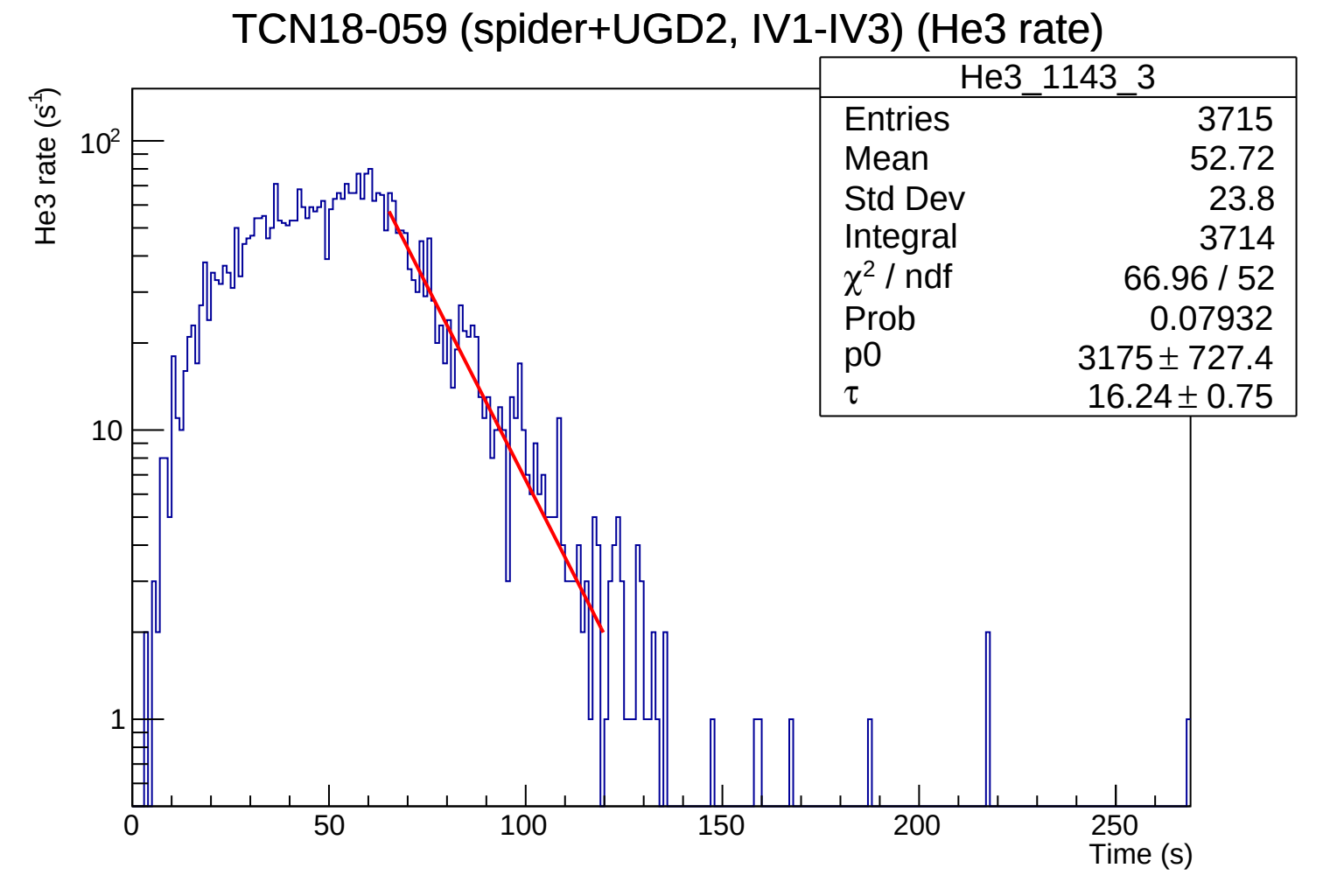
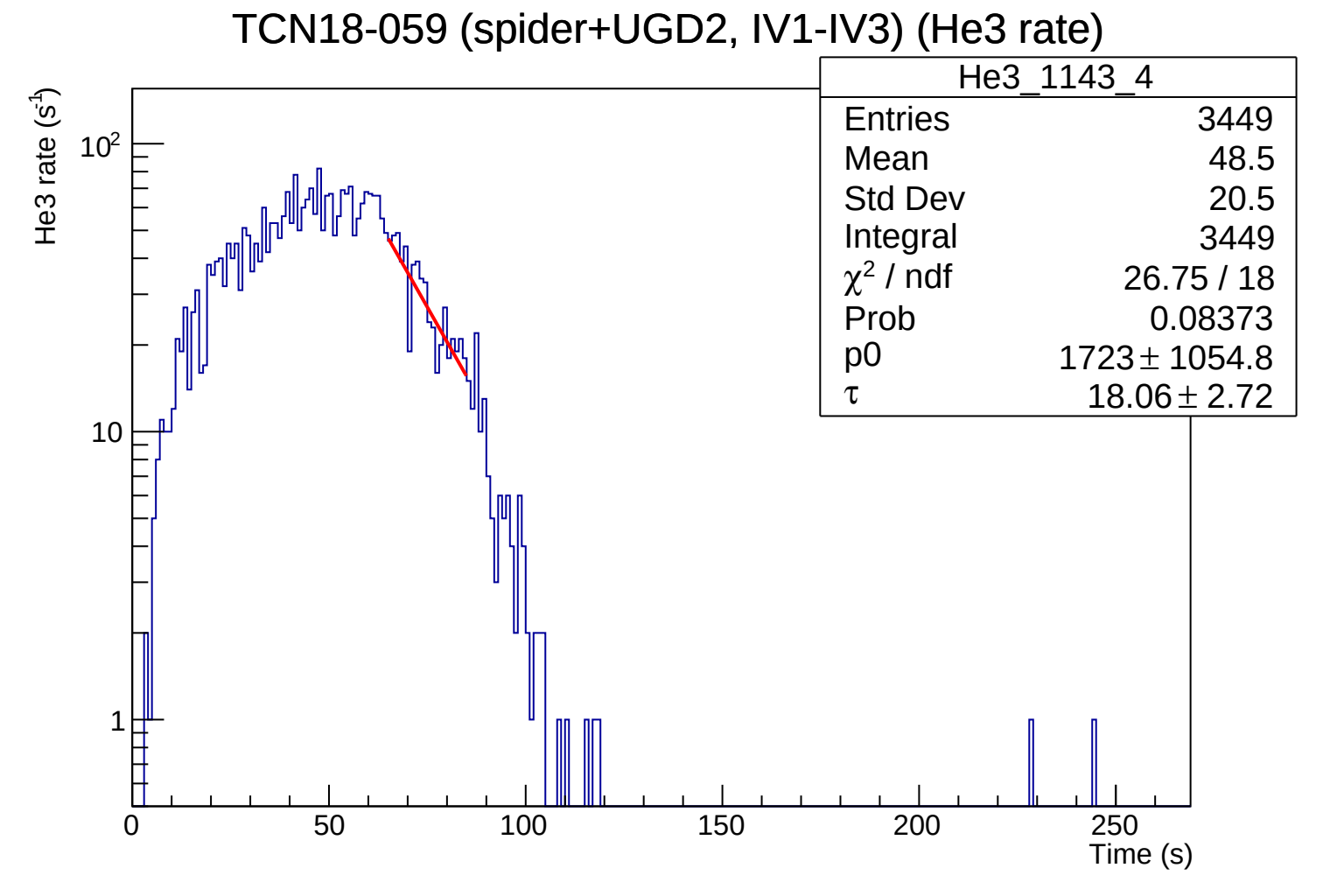

TCN18-059 (spider+UGD2, IV1-IV3) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ2 / ndf 23.41 / 5
Prob 0.0002821
p0 26.19 ± 0.754
τ 22.94 ± 0.4691
UCN-count-to-monitor ratio
10
1
0
20
40
60
80
100
Storage time (s)

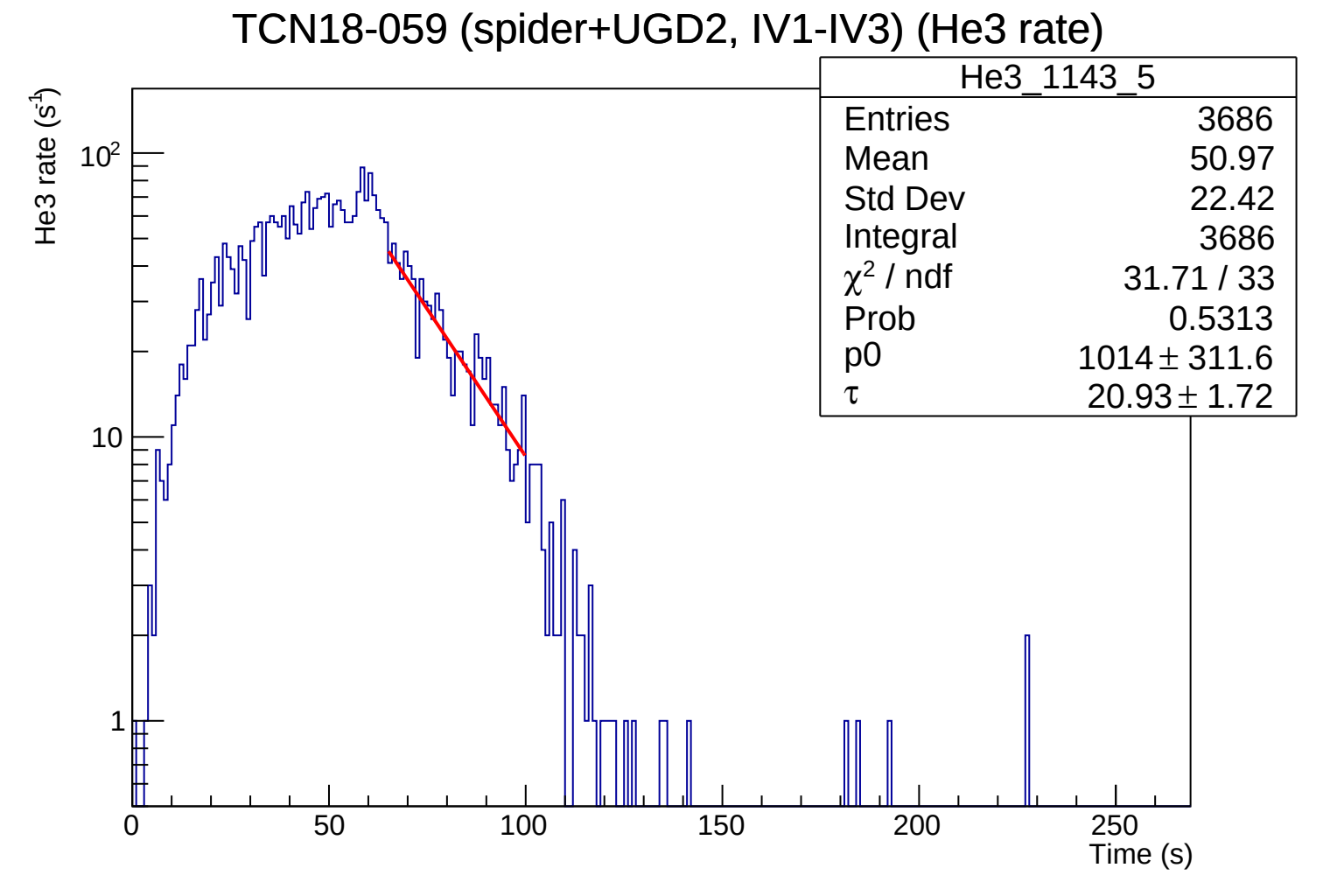

TCN18-059 (spider+UGD2, IV1-IV3) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 5.231 / 3
Prob 0.1556
N1 27.5 ± 0.8345
τ1 20.86 ± 0.6043
N2 0.2682 ± 0.06014
τ2 7.797e+05 ± 5.523e+05
UCN-count-to-monitor ratio
10
1
0
20
40
60
80
100
Storage time (s)

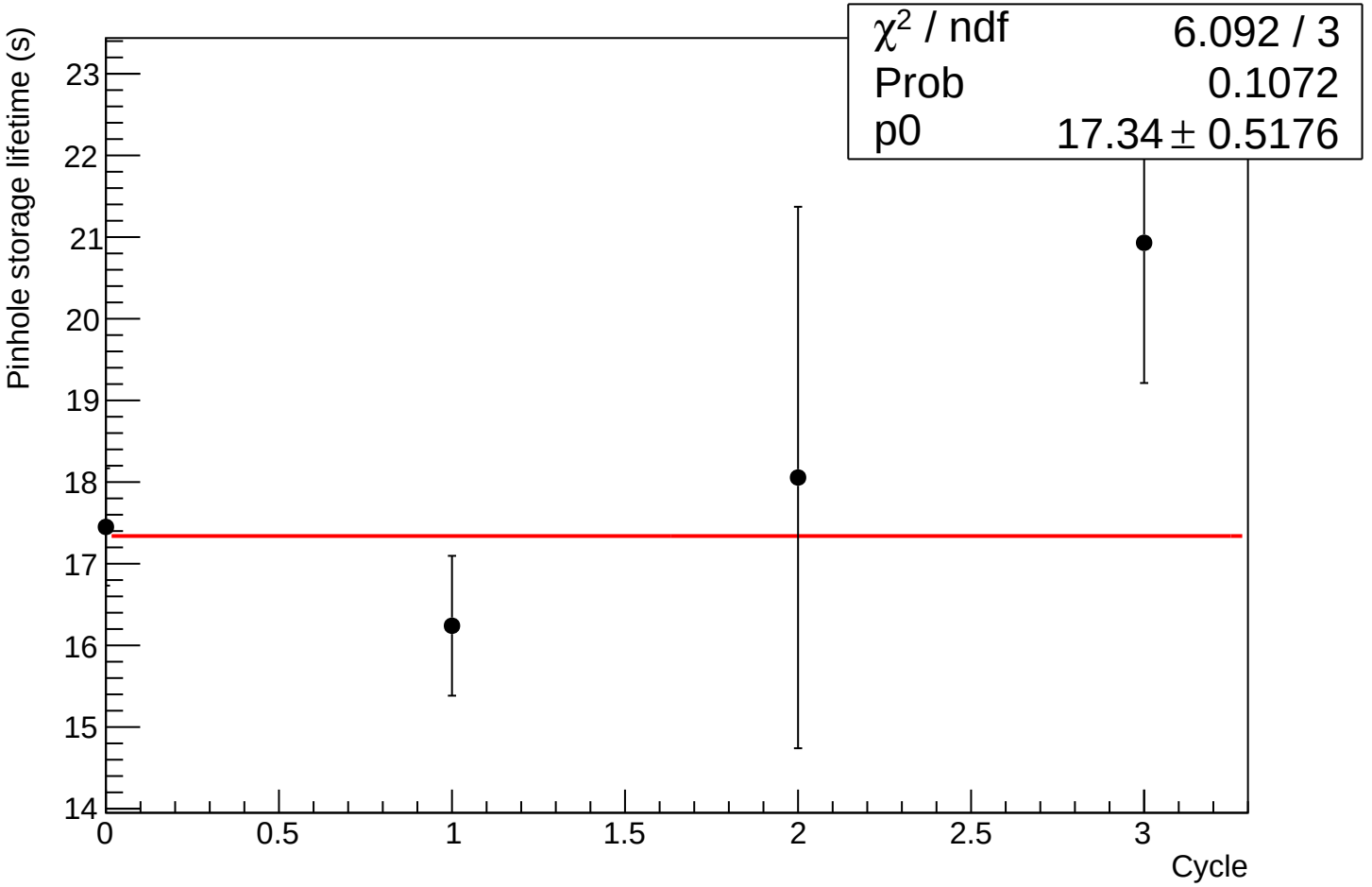

Graph
Vapor pressure (torr)
0.19
0.185
0.18
0.175
0.17
0.165
0.16
0.155
Temperature (K)
1.05
1.045
1.04
1.035
1.03
0
1
2
3
4
5
6
7
8
Cycle

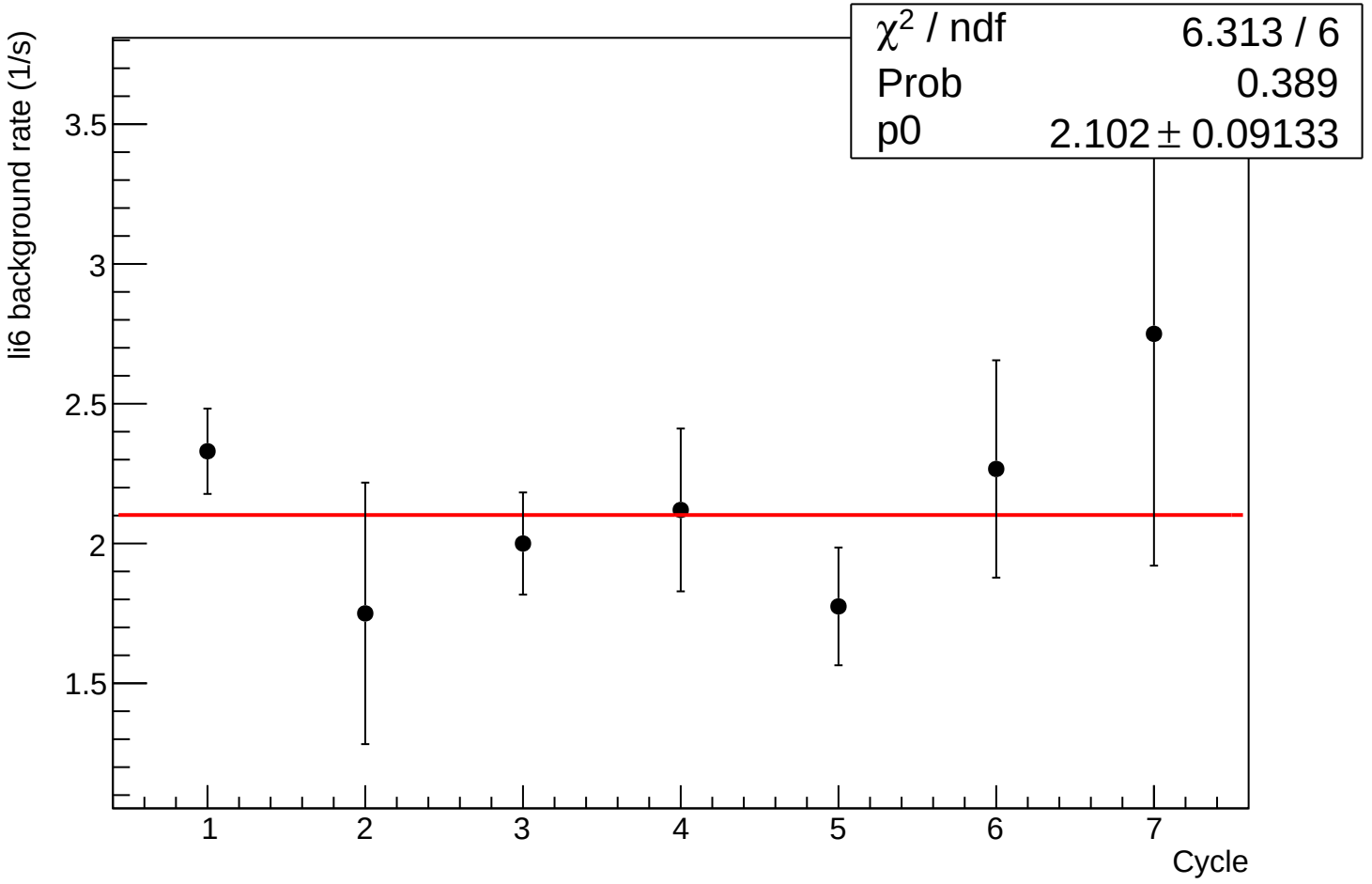

TCN18-059 (spider+UGD2, IV1-IV3) (He3 rate)
He3_1143_1
Entries 3751
Mean 53.97
Std Dev 25.6
Integral 3751
χ² / ndf 96.33 / 83
Prob 0.1504
p0 2299 ± 417.6
τ 17.45 ± 0.67
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

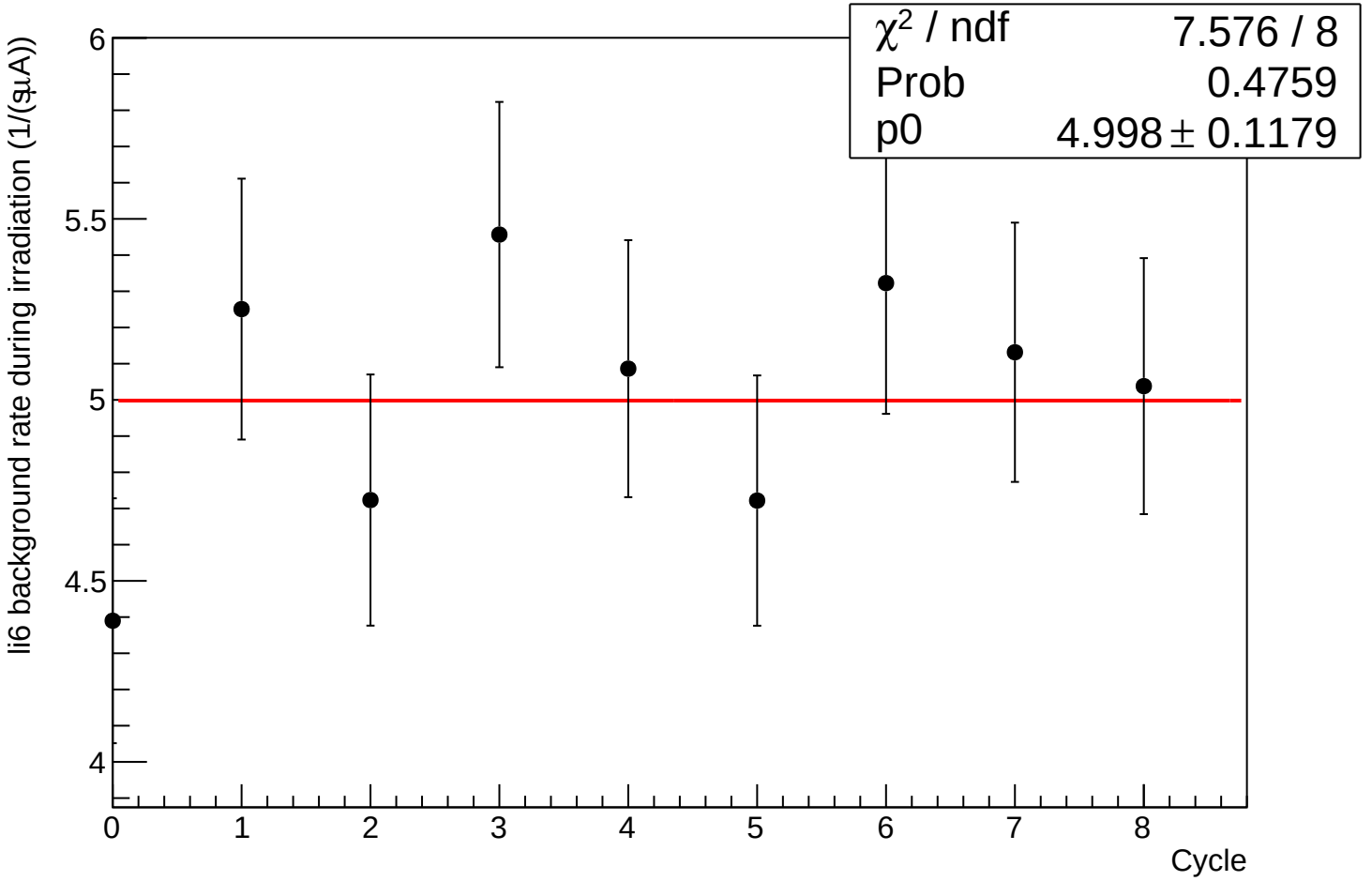

TCN18-059 (spider+UGD2, IV1-IV3) (He3 rate)
He3_1143_3
Entries 3715
Mean 52.72
Std Dev 23.8
Integral 3714
χ² / ndf 66.96 / 52
Prob 0.07932
p0 3175 ± 727.4
τ 16.24 ± 0.75
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

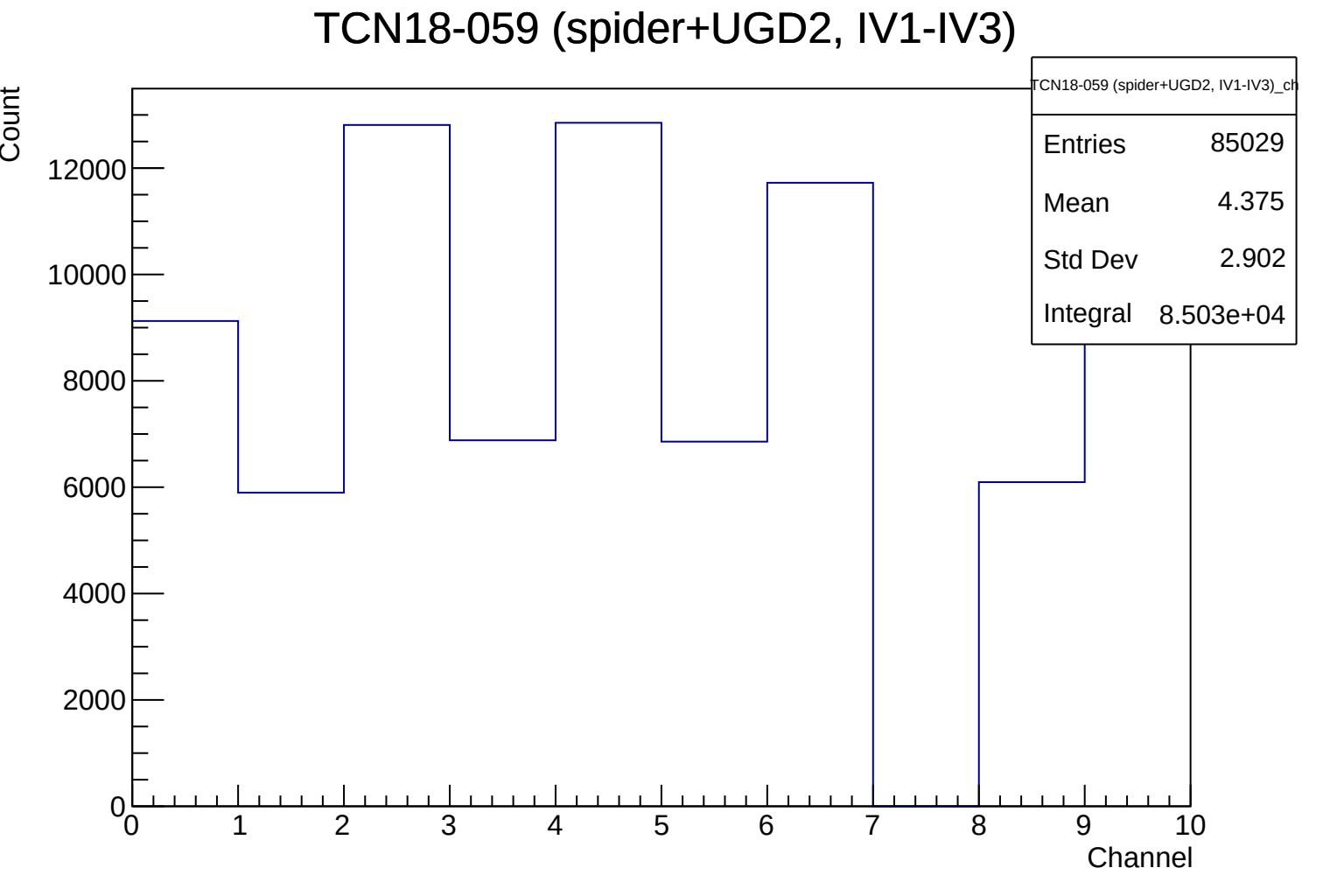

TCN18-059 (spider+UGD2, IV1-IV3) (He3 rate)
He3_1143_4
Entries 3449
Mean 48.5
Std Dev 20.5
Integral 3449
χ² / ndf 26.75 / 18
Prob 0.08373
p0 1723 ± 1054.8
τ 18.06 ± 2.72
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN18-059 (spider+UGD2, IV1-IV3) (He3 rate)
He3_1143_5
Entries 3686
Mean 50.97
Std Dev 22.42
Integral 3686
χ² / ndf 31.71 / 33
Prob 0.5313
p0 1014 ± 311.6
τ 20.93 ± 1.72
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


χ^2 / ndf 6.092 / 3
Prob 0.1072
p0 17.34 ± 0.5176
Pinhole storage lifetime (s)
23
22
21
20
19
18
17
16
15
14
0
0.5
1
1.5
2
2.5
3
Cycle


li6 background rate (1/s)
3.5
3
2.5
2
1.5
1
2
3
4
5
6
7
Cycle
χ² / ndf 6.313 / 6
Prob 0.389
p0 2.102 ± 0.09133


χ² / ndf 7.576 / 8
Prob 0.4759
p0 4.998 ± 0.1179
li6 background rate during irradiation (1/(μA))
Cycle
6
5.5
5
4.5
4
0
1
2
3
4
5
6
7
8


TCN18-059 (spider+UGD2, IV1-IV3)
Count
Channel
TCN18-059 (spider+UGD2, IV1-IV3)_ch
Entries 85029
Mean 4.375
Std Dev 2.902
Integral 8.503e+04
0
2000
4000
6000
8000
10000
12000
0
1
2
3
4
5
6
7
8
9
10