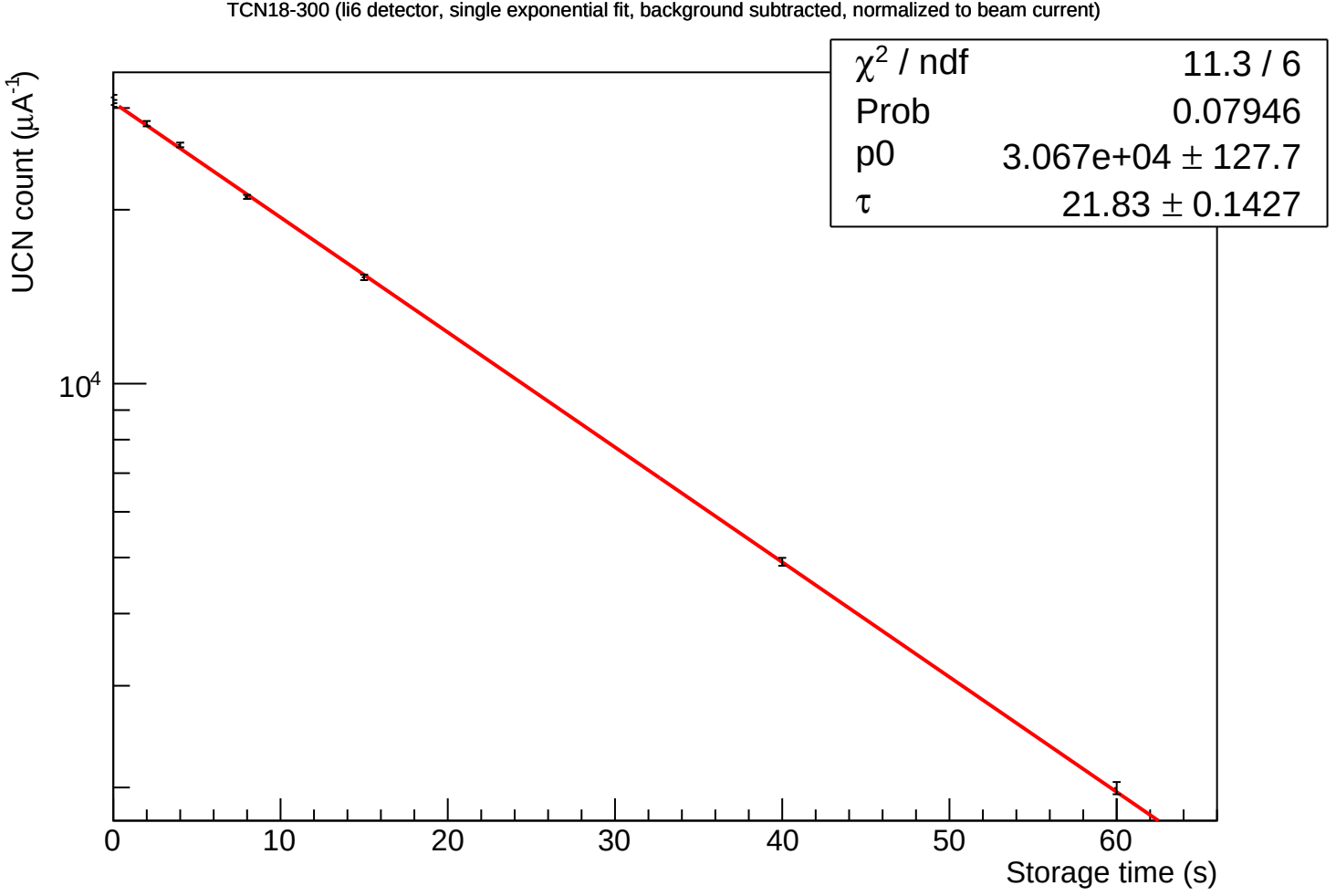
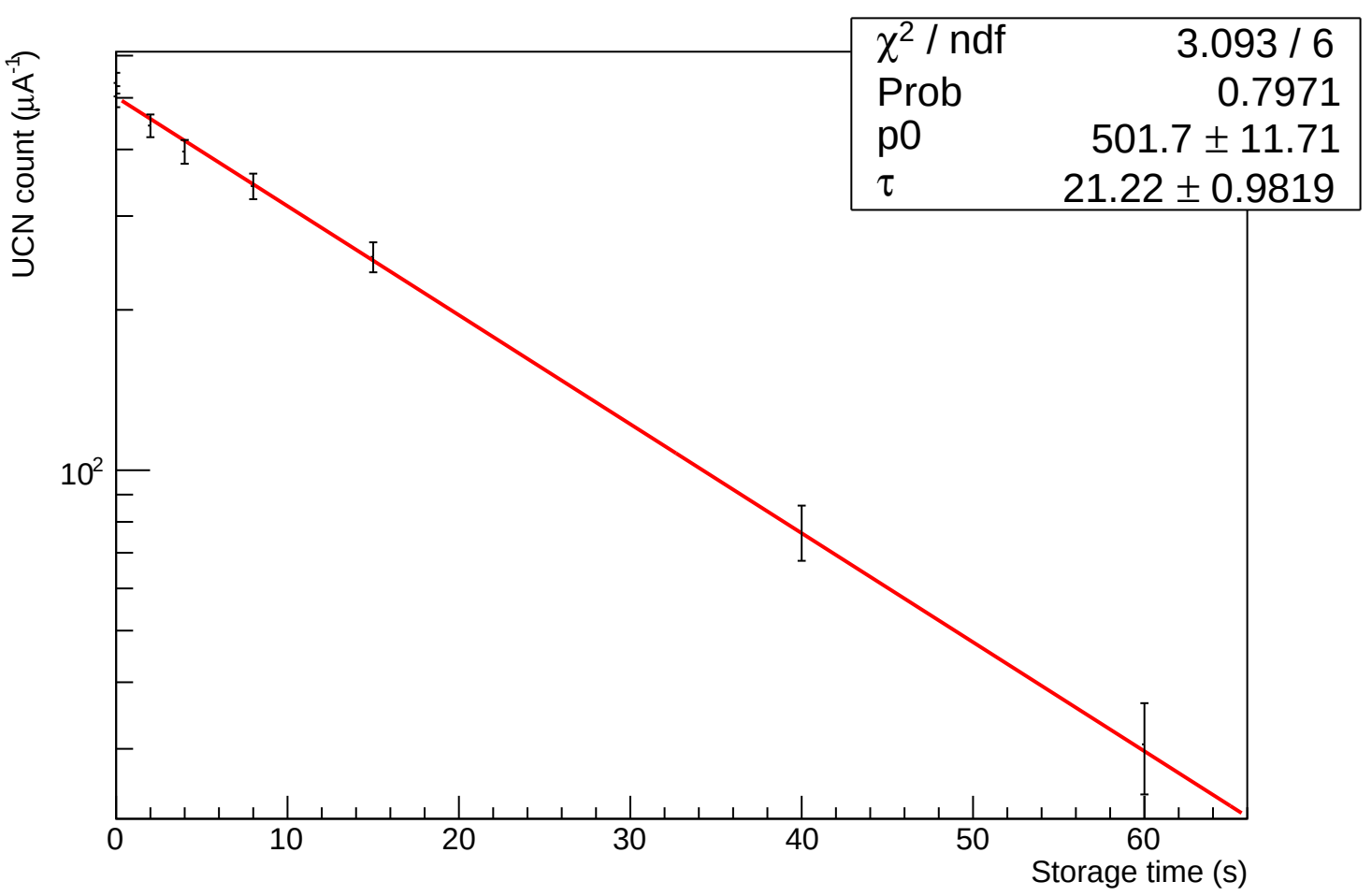
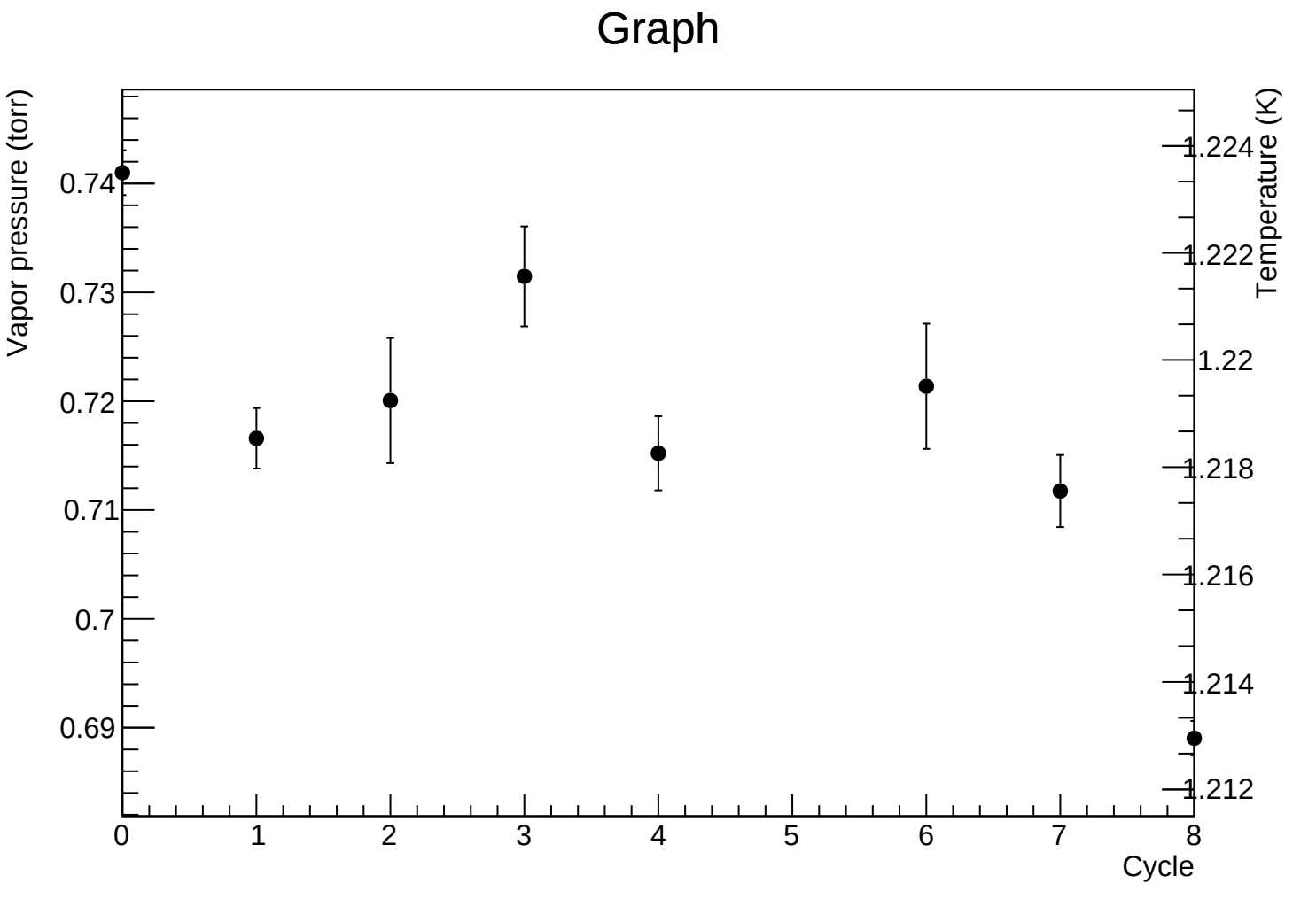
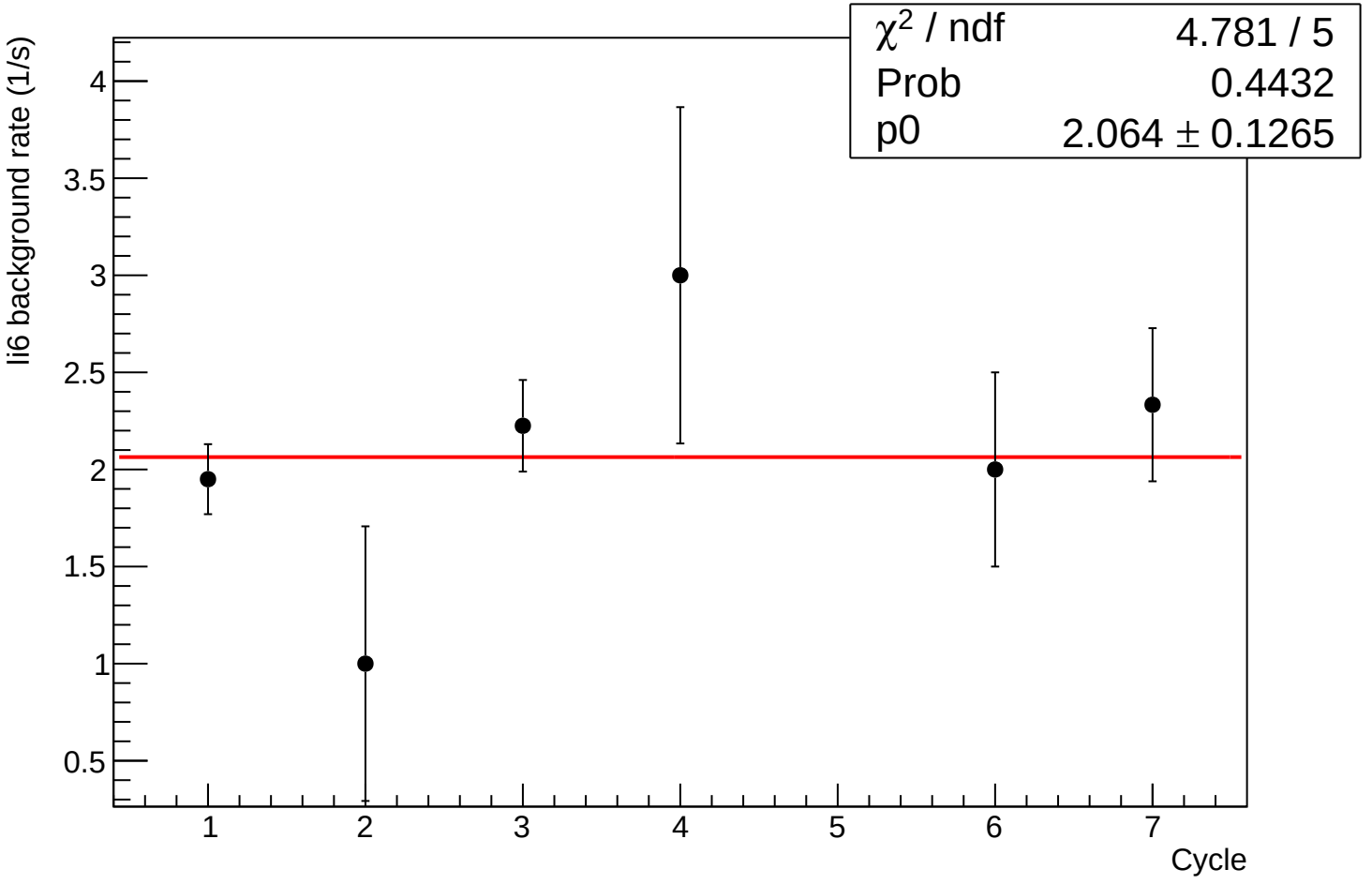
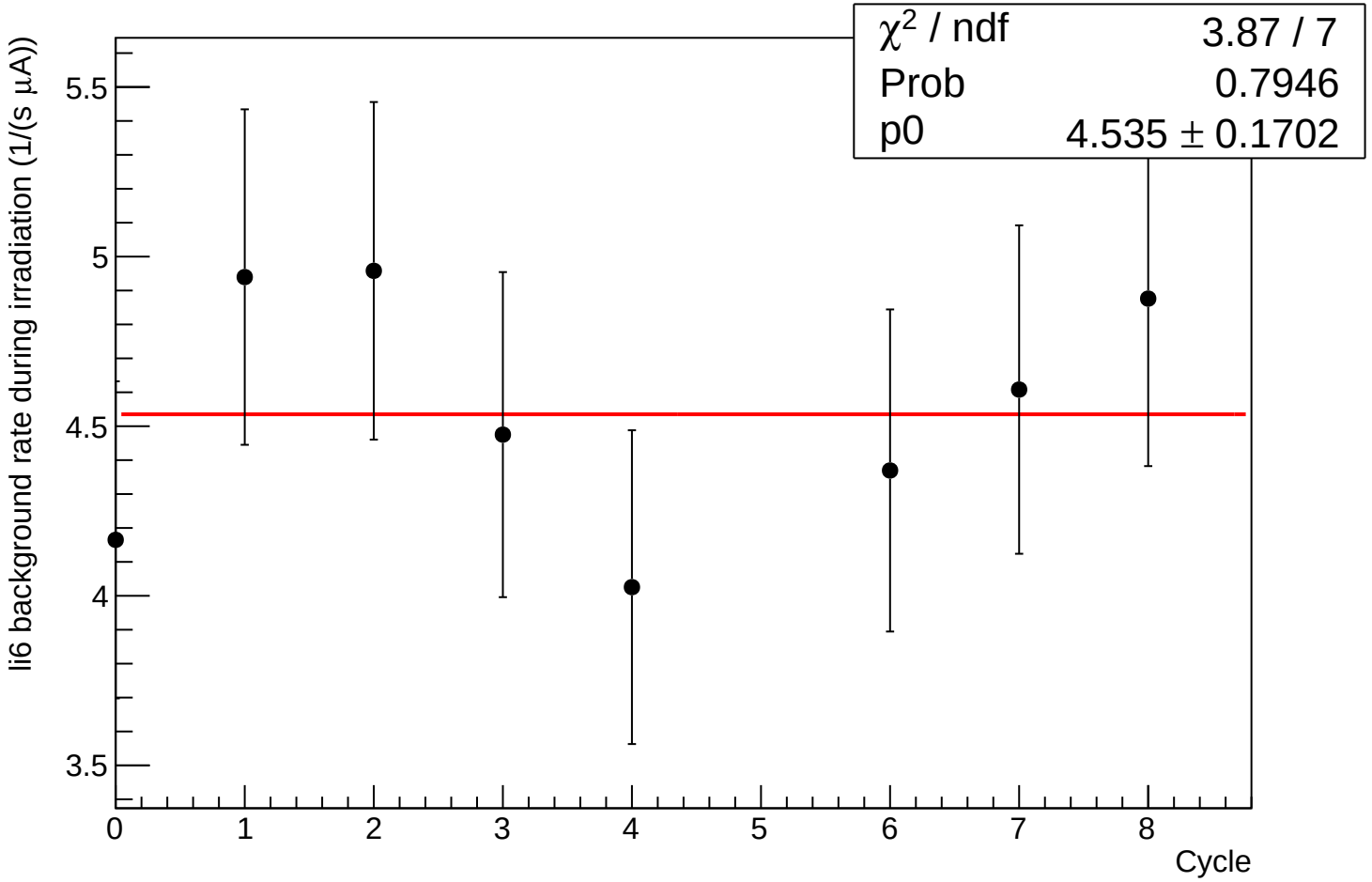
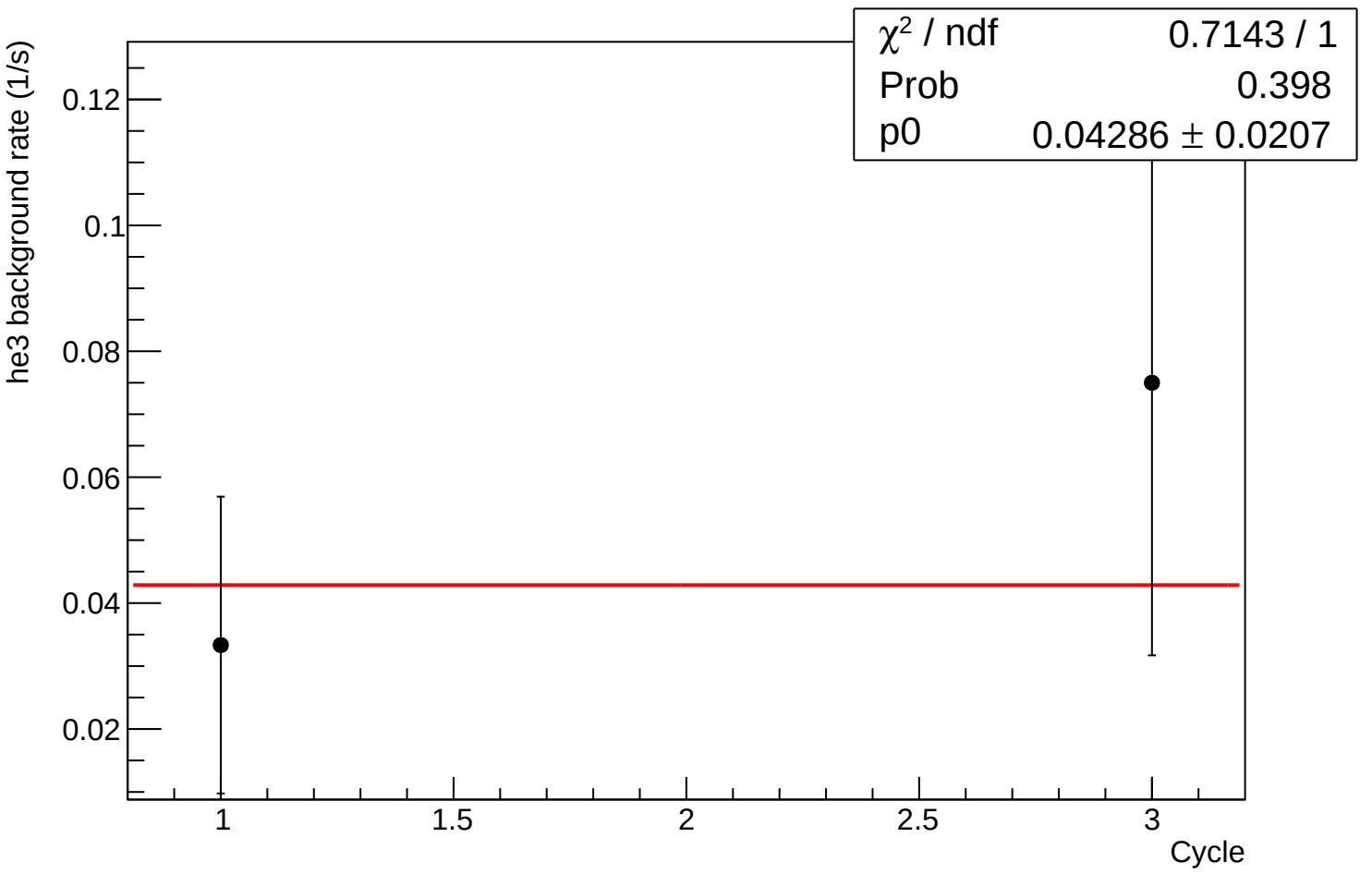

TCN18-300 (li6 detector, single exponential fit, background subtracted, normalized to beam current)
χ² / ndf 11.3 / 6
Prob 0.07946
p0 3.067e+04 ± 127.7
τ 21.83 ± 0.1427
UCN count (μA⁻¹)
10⁴
0
10
20
30
40
50
60
Storage time (s)

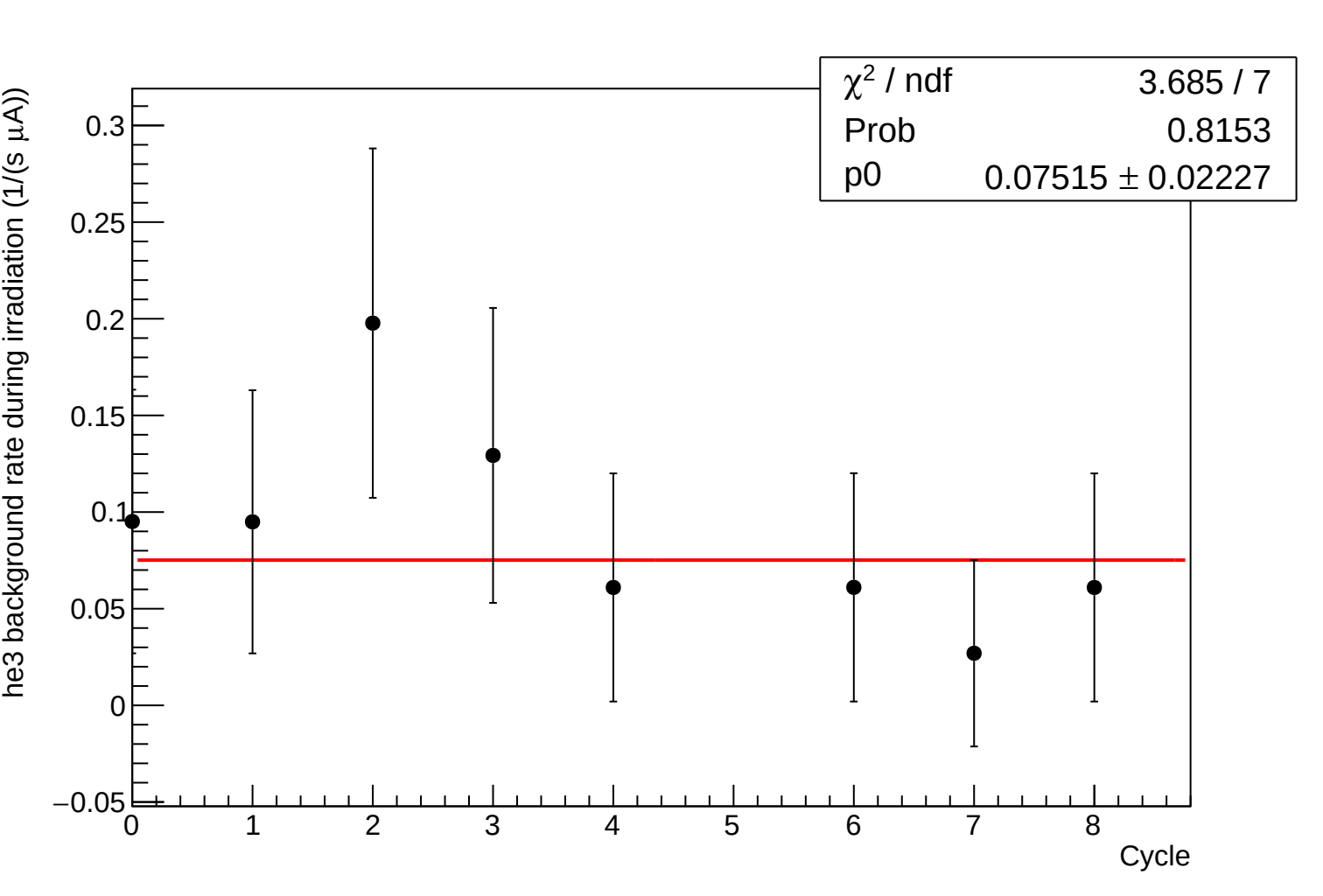

TCN18-300 (he3 detector, single exponential fit, background subtracted, normalized to beam current)
χ2 / ndf 3.093 / 6
Prob 0.7971
p0 501.7 ± 11.71
τ 21.22 ± 0.9819
UCN count (μA-1)
10^2
0
10
20
30
40
50
60
Storage time (s)

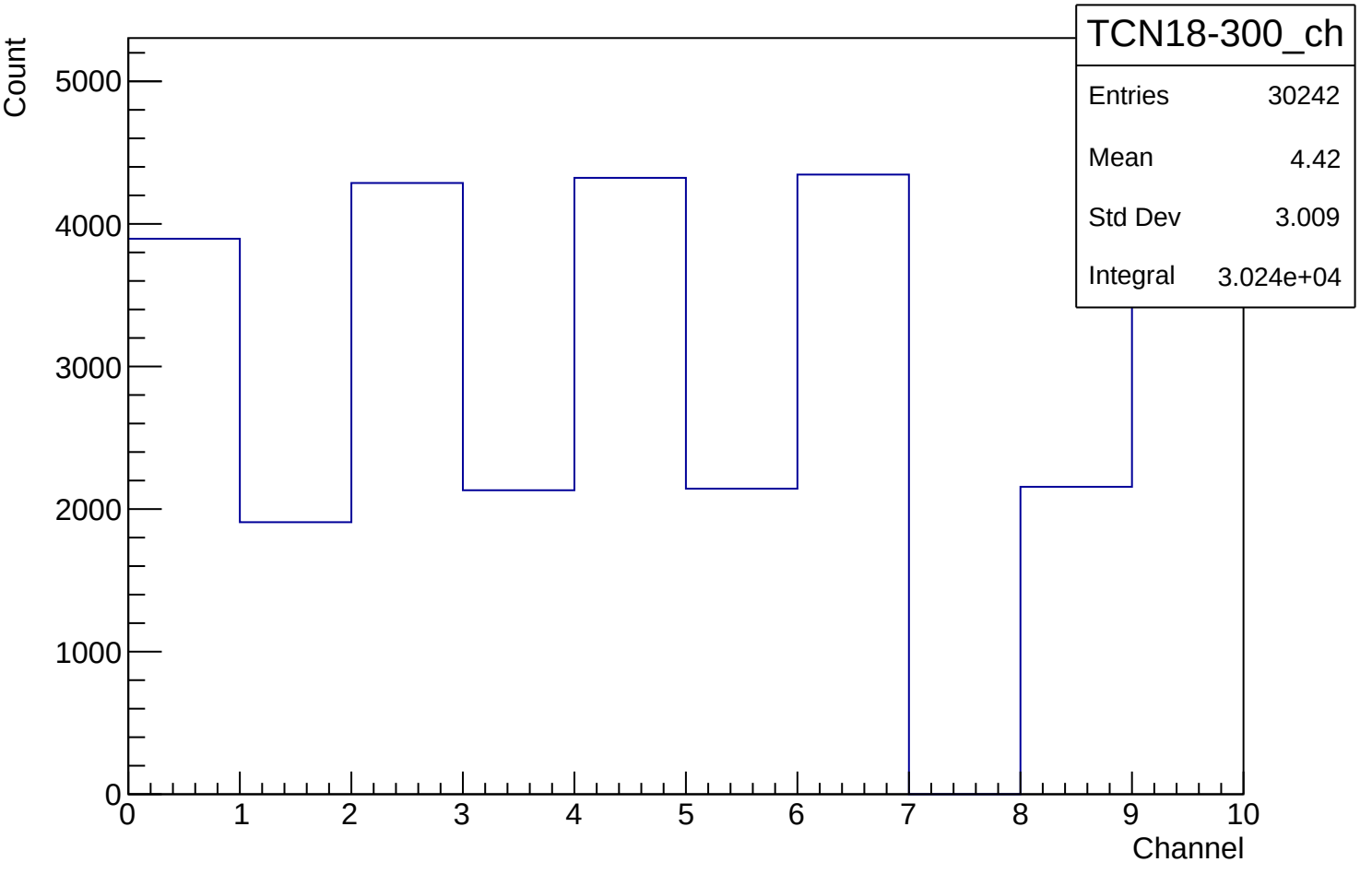

Graph
Vapor pressure (torr)
0.74
0.73
0.72
0.71
0.7
0.69
Temperature (K)
1.224
1.222
1.22
1.218
1.216
1.214
1.212
0
1
2
3
4
5
6
7
8
Cycle

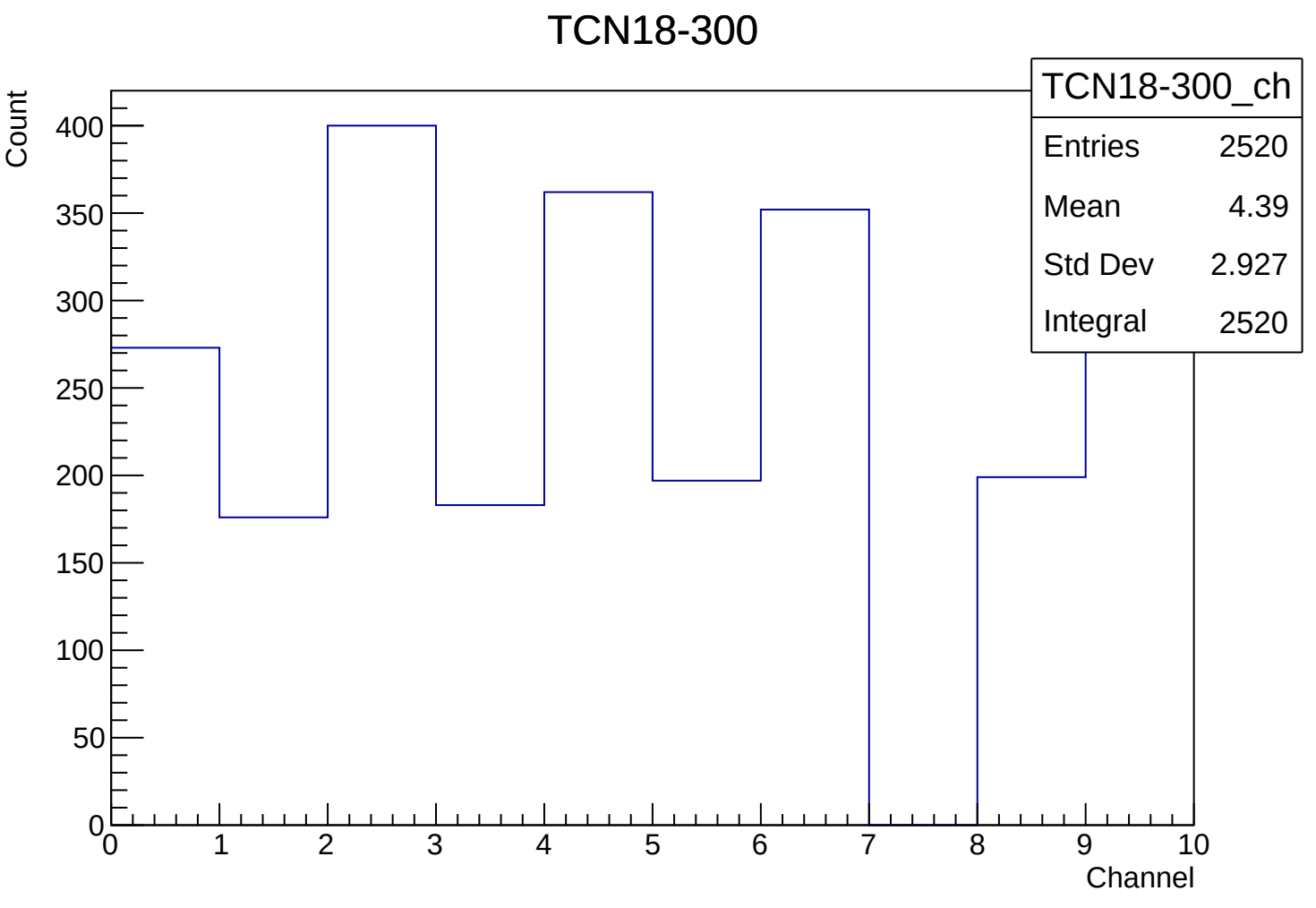

li6 background rate (1/s)
Cycle
χ² / ndf 4.781 / 5
Prob 0.4432
p0 2.064 ± 0.1265
0.5
1
1.5
2
2.5
3
3.5
4
1
2
3
4
5
6
7

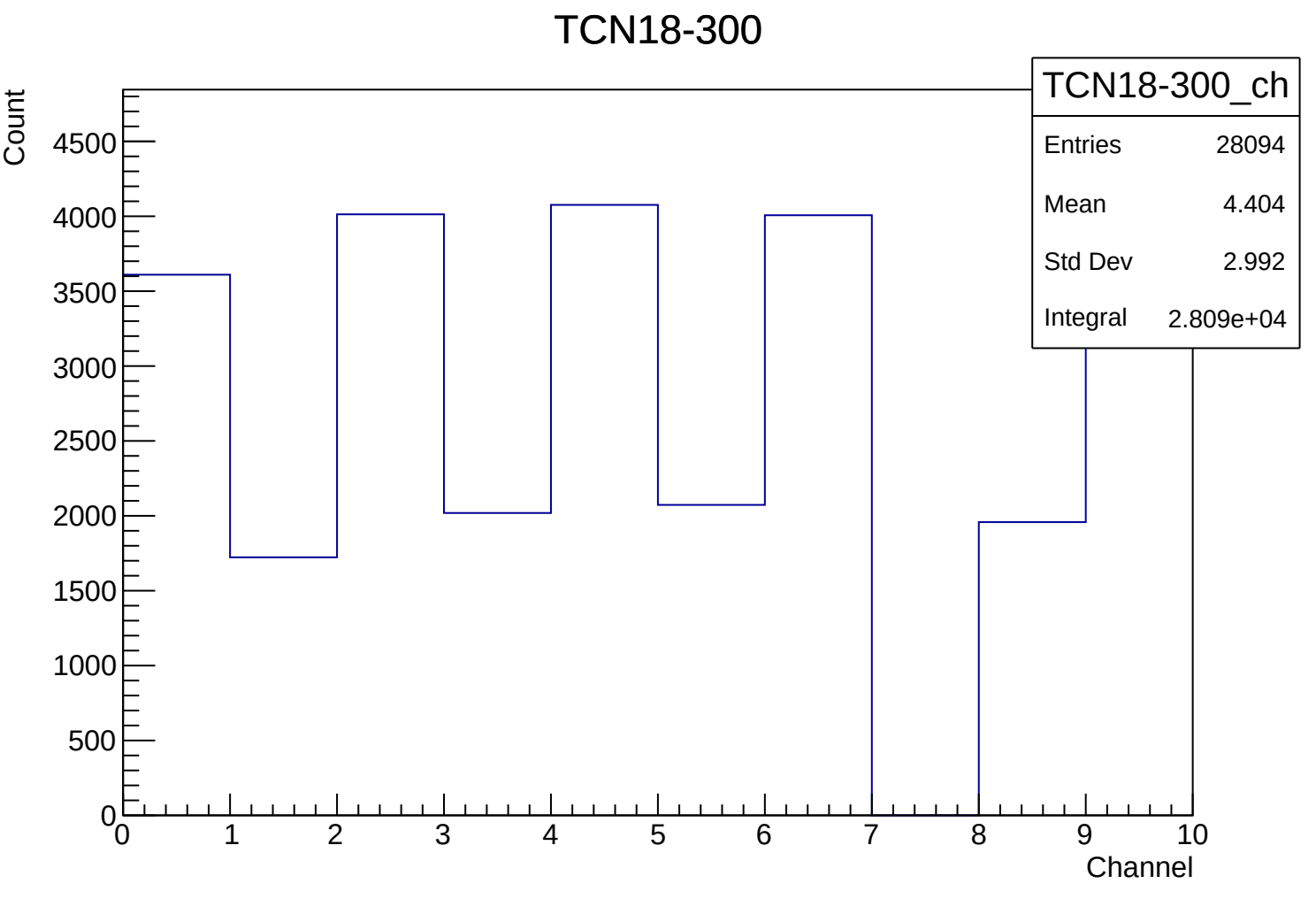

χ^2 / ndf 3.87 / 7
Prob 0.7946
p0 4.535 ± 0.1702
li6 background rate during irradiation (1/(s μA))
5.5
5
4.5
4
3.5
0
1
2
3
4
5
6
7
8
Cycle

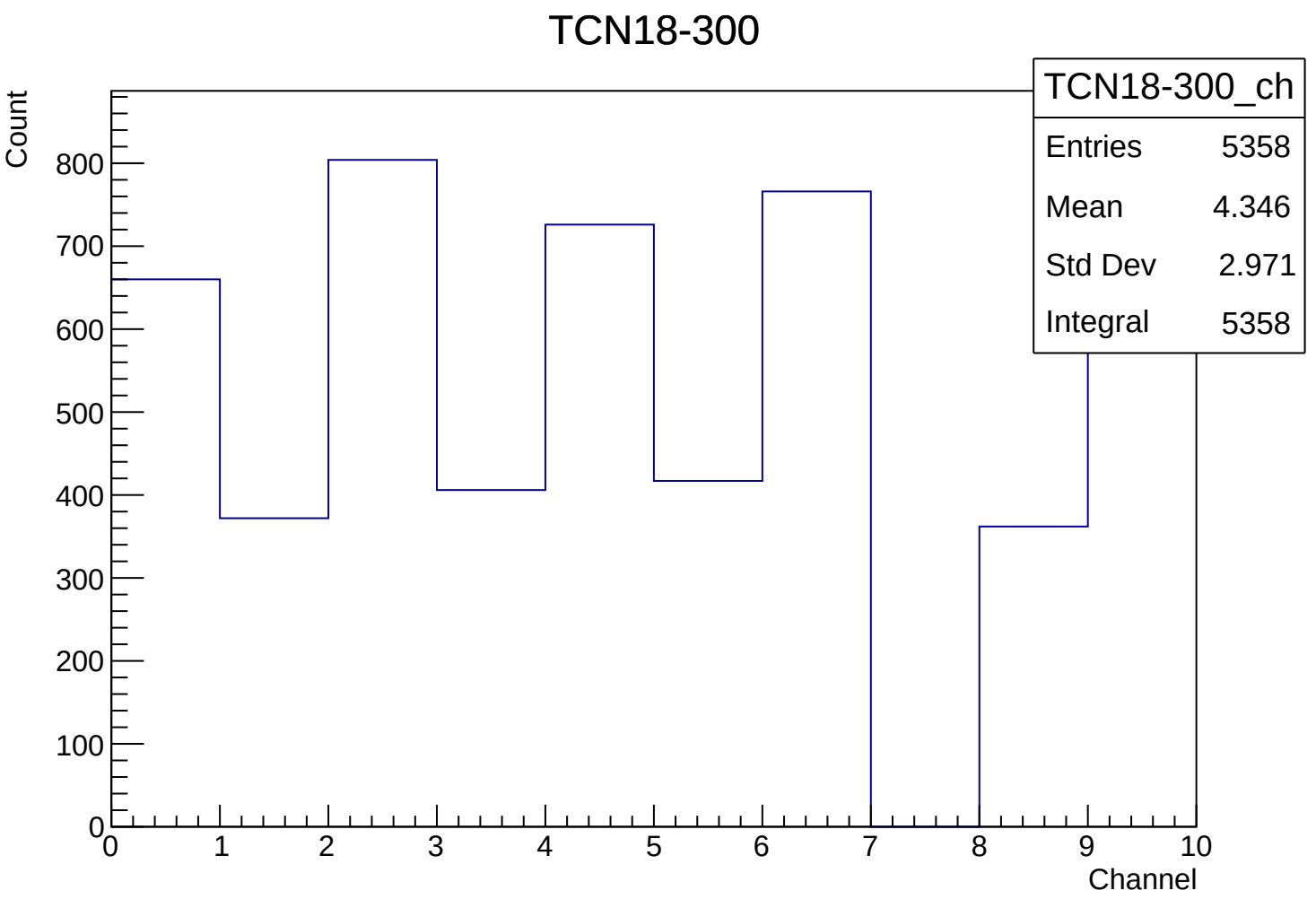

χ² / ndf 0.7143 / 1
Prob 0.398
p0 0.04286 ± 0.0207
he3 background rate (1/s)
0.12
0.1
0.08
0.06
0.04
0.02
1
1.5
2
2.5
3
Cycle

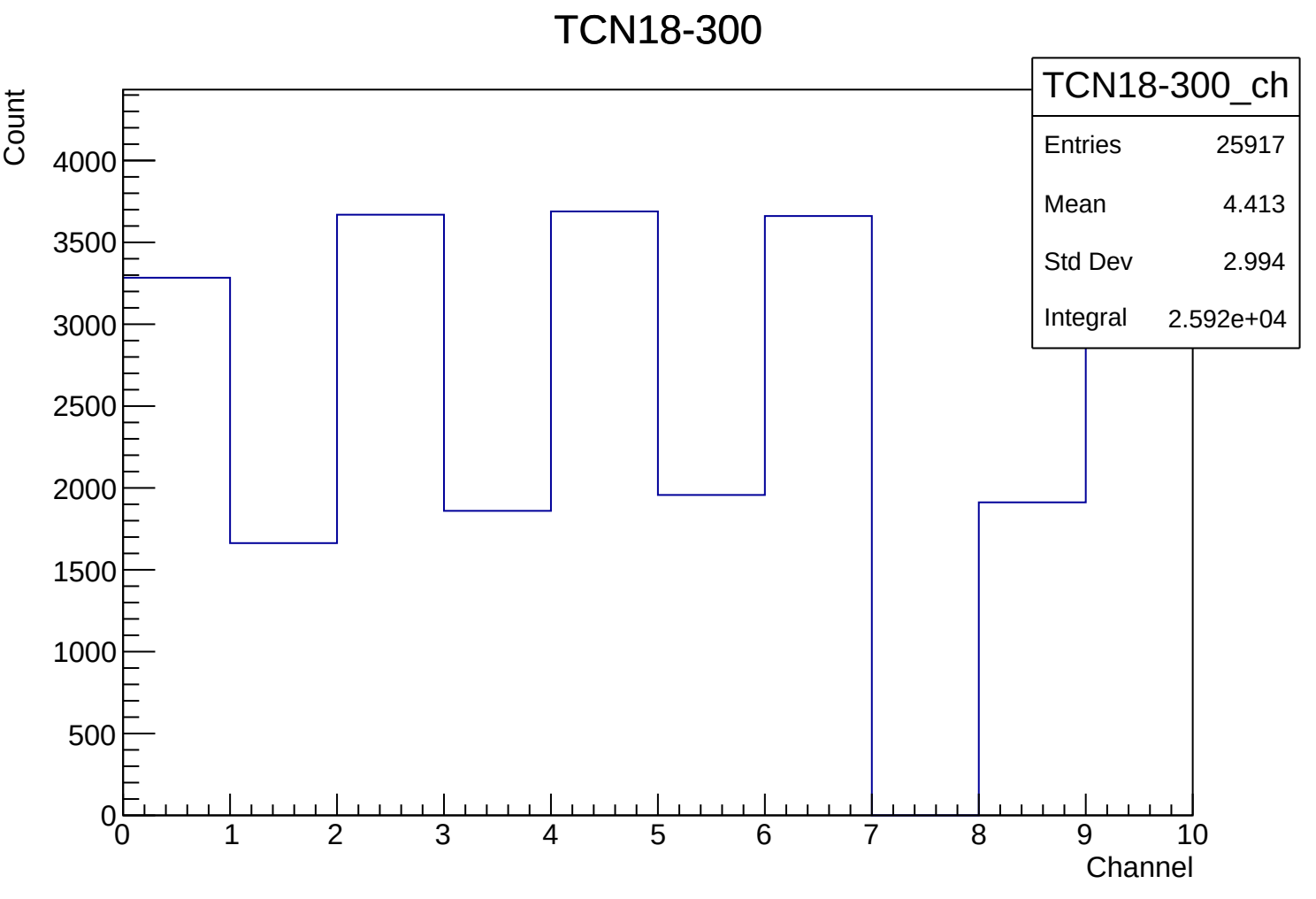

χ² / ndf 3.685 / 7
Prob 0.8153
p0 0.07515 ± 0.02227
he3 background rate during irradiation (1/(s μA))
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
0
1
2
3
4
5
6
7
8
Cycle

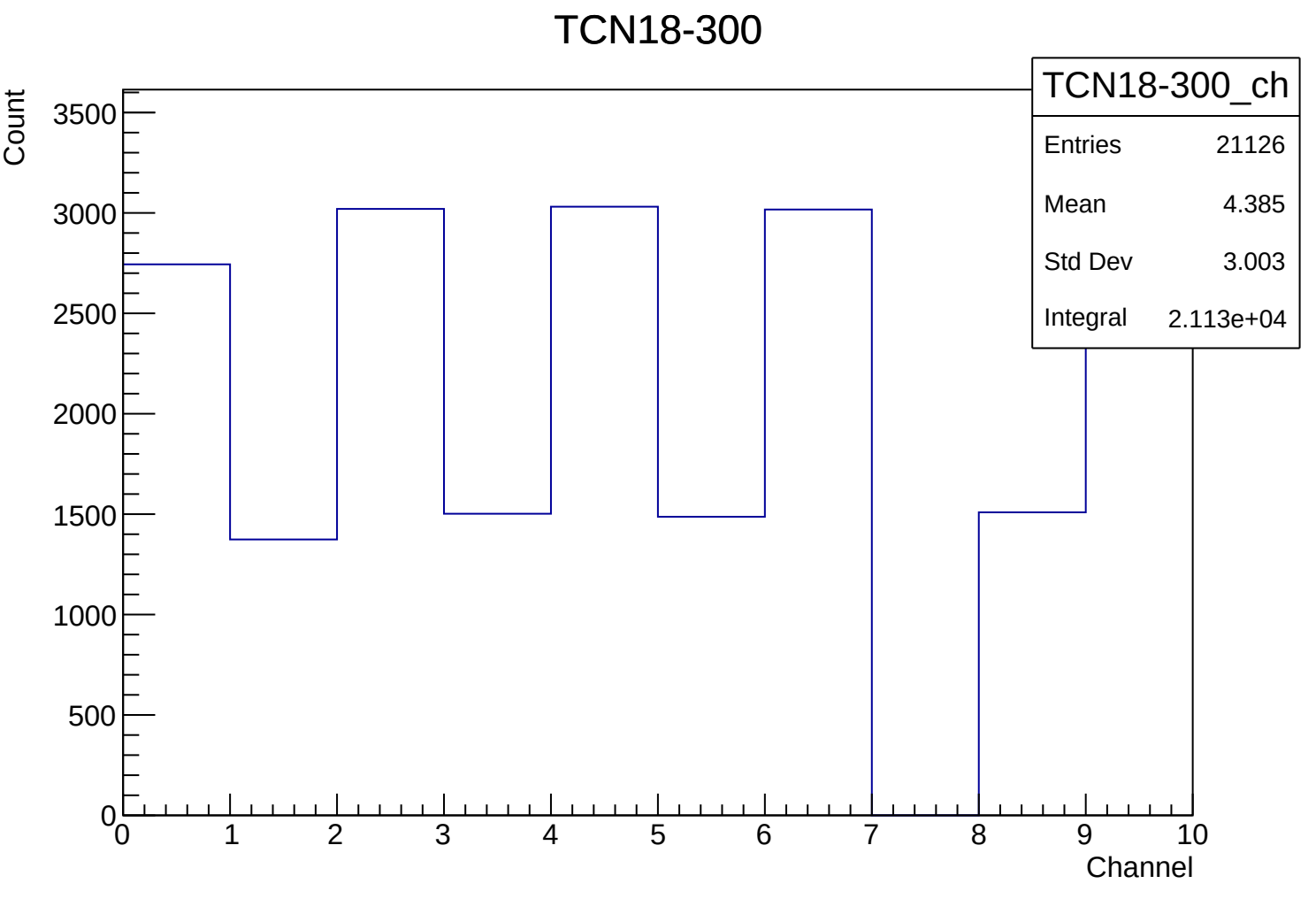

TCN18-300
TCN18-300_ch
Entries 30242
Mean 4.42
Std Dev 3.009
Integral 3.024e+04
Count
5000
4000
3000
2000
1000
0
0 1 2 3 4 5 6 7 8 9 10
Channel

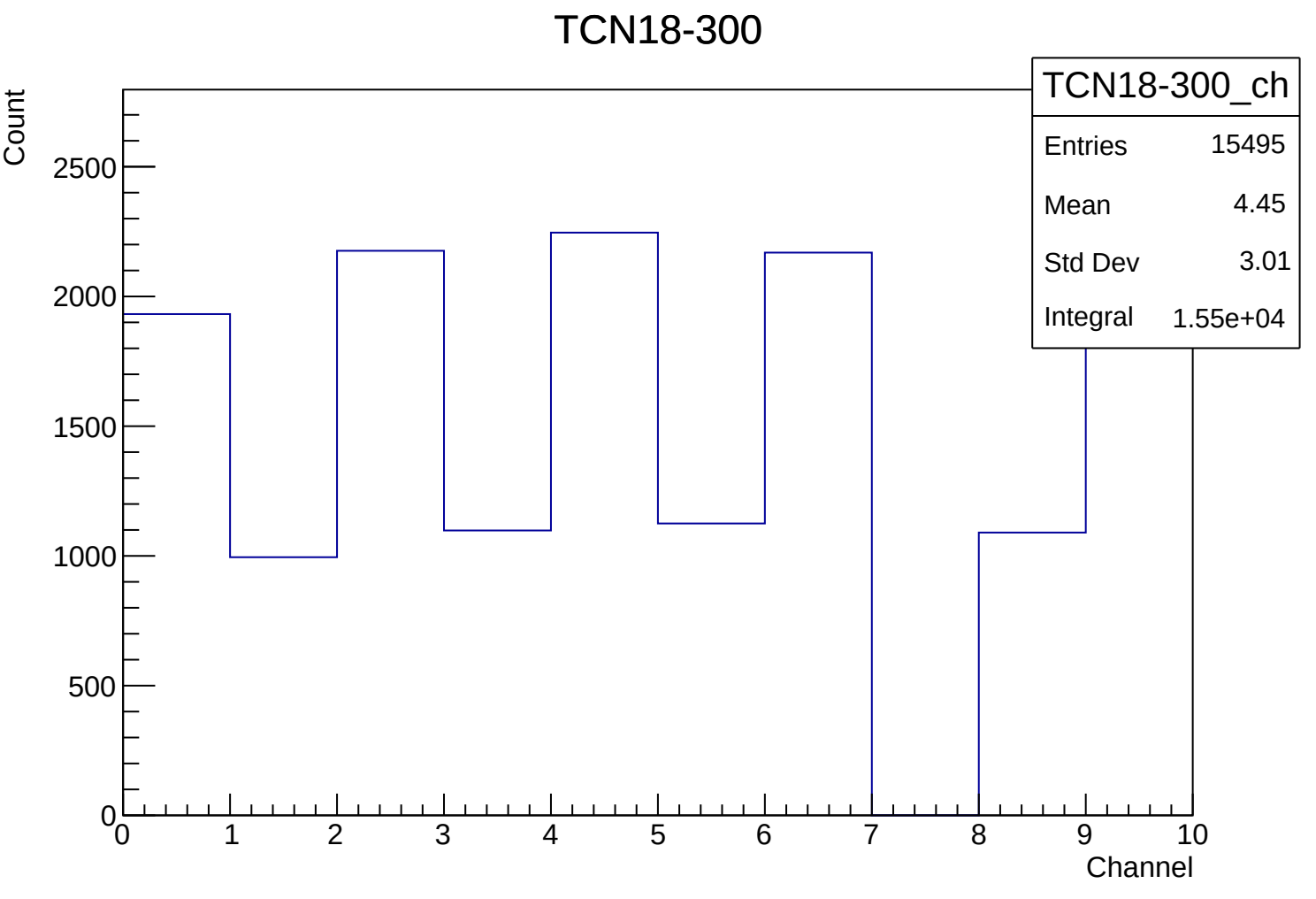

TCN18-300
TCN18-300_ch
Entries 2520
Mean 4.39
Std Dev 2.927
Integral 2520
Count
Channel
0
50
100
150
200
250
300
350
400
0
1
2
3
4
5
6
7
8
9
10

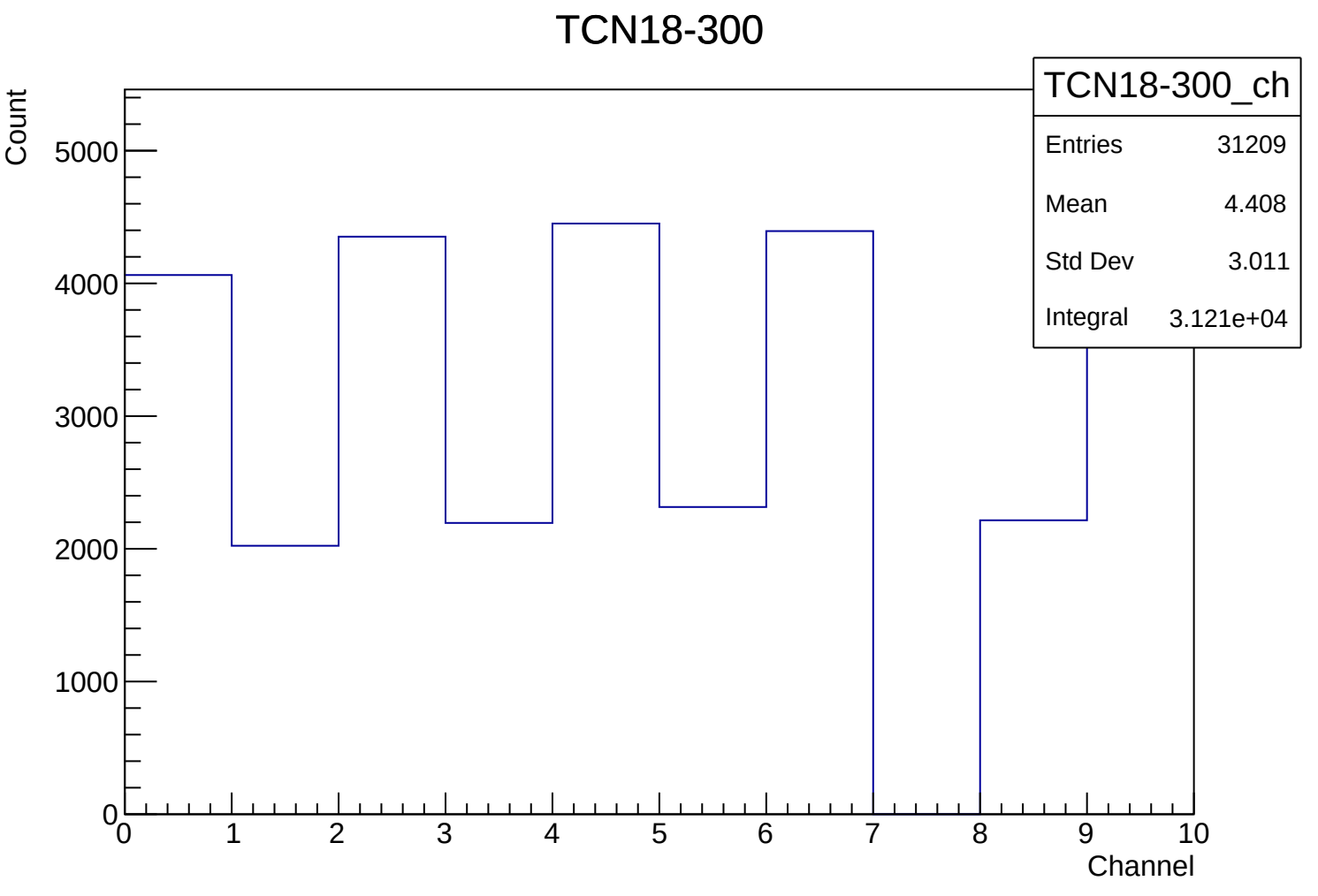

TCN18-300
TCN18-300_ch
Entries 28094
Mean 4.404
Std Dev 2.992
Integral 2.809e+04
Count
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 1 2 3 4 5 6 7 8 9 10
Channel


TCN18-300
TCN18-300_ch
Entries 5358
Mean 4.346
Std Dev 2.971
Integral 5358
Count
0
100
200
300
400
500
600
700
800
0 1 2 3 4 5 6 7 8 9 10
Channel


TCN18-300
TCN18-300_ch
Entries 25917
Mean 4.413
Std Dev 2.994
Integral 2.592e+04
Count
4000
3500
3000
2500
2000
1500
1000
500
0
0 1 2 3 4 5 6 7 8 9 10
Channel


TCN18-300
TCN18-300_ch
Entries 21126
Mean 4.385
Std Dev 3.003
Integral 2.113e+04
Count
3500
3000
2500
2000
1500
1000
500
0
0 1 2 3 4 5 6 7 8 9 10
Channel


TCN18-300
TCN18-300_ch
Entries 15495
Mean 4.45
Std Dev 3.01
Integral 1.55e+04
Count
2500
2000
1500
1000
500
0
0 1 2 3 4 5 6 7 8 9 10
Channel


TCN18-300
TCN18-300_ch
Entries 31209
Mean 4.408
Std Dev 3.011
Integral 3.121e+04
Count
5000
4000
3000
2000
1000
0
0 1 2 3 4 5 6 7 8 9 10
Channel