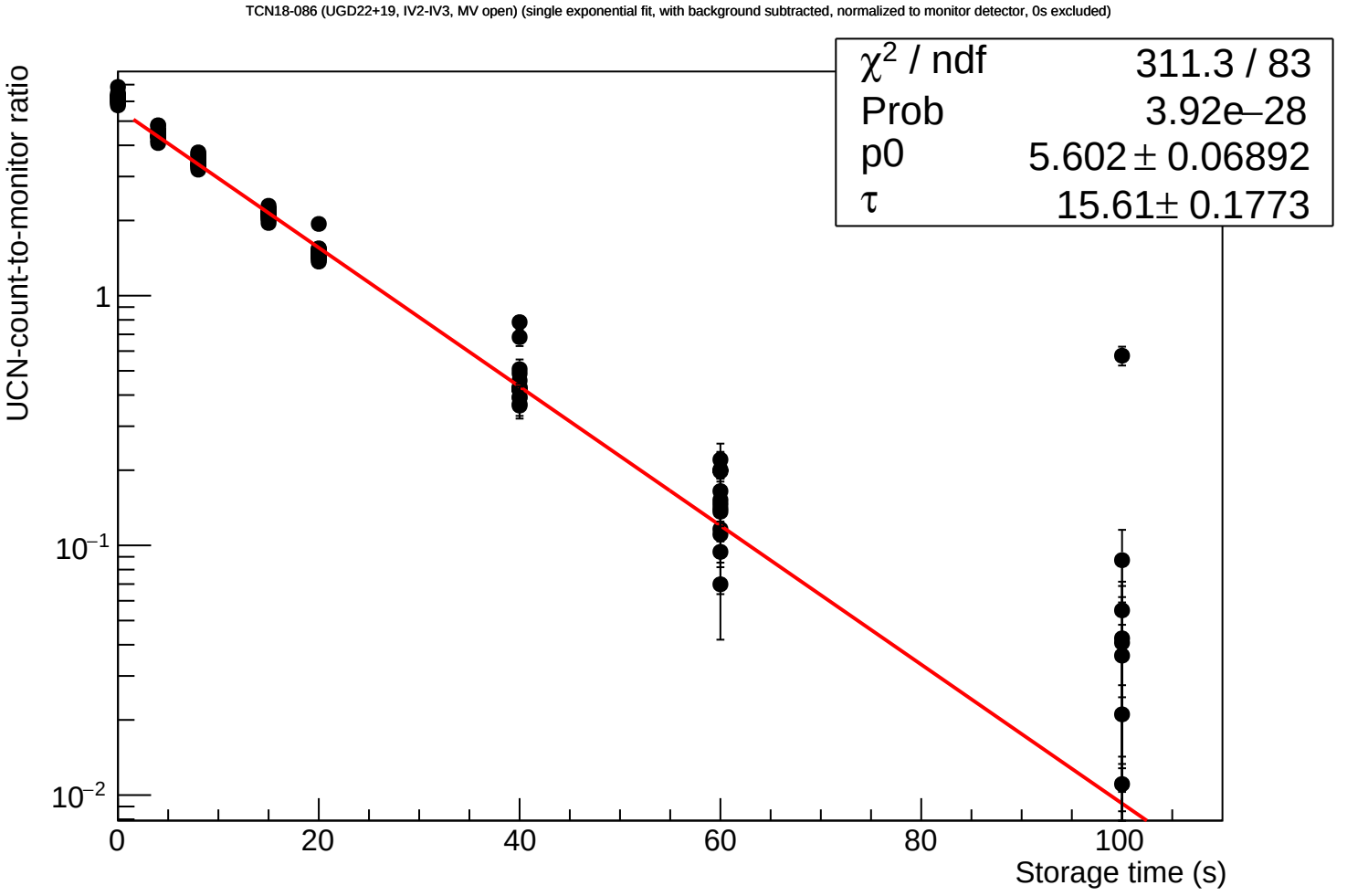
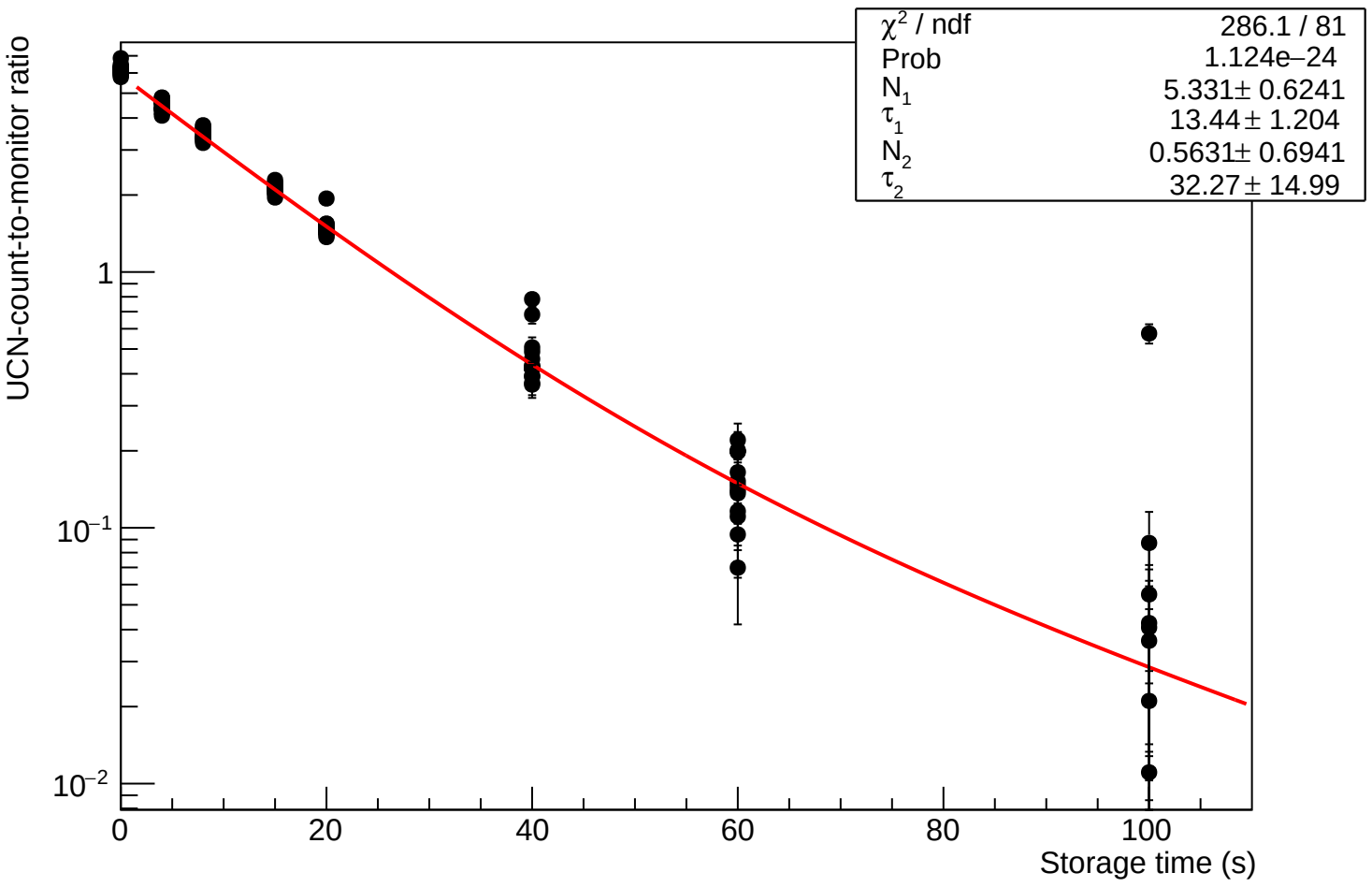
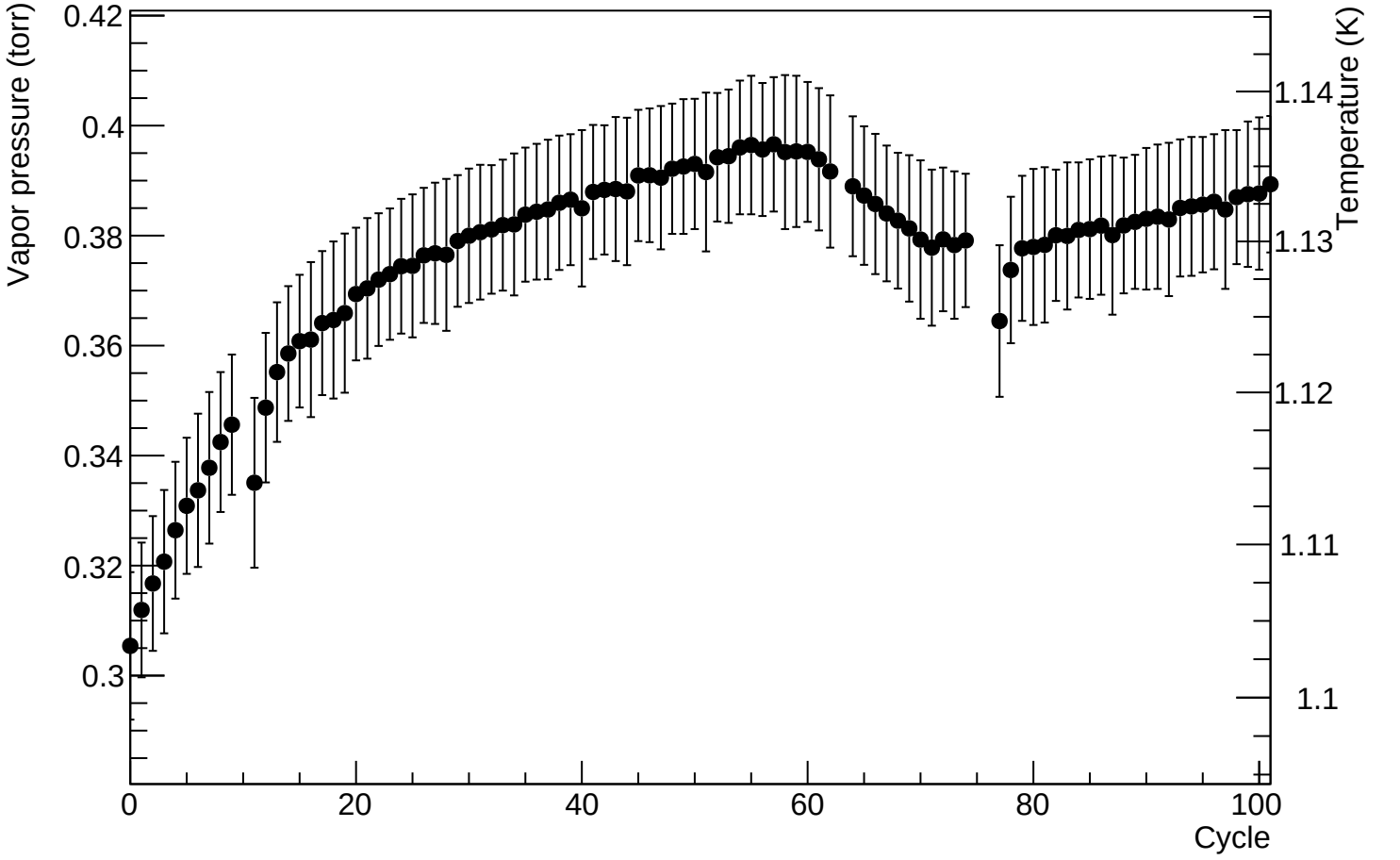
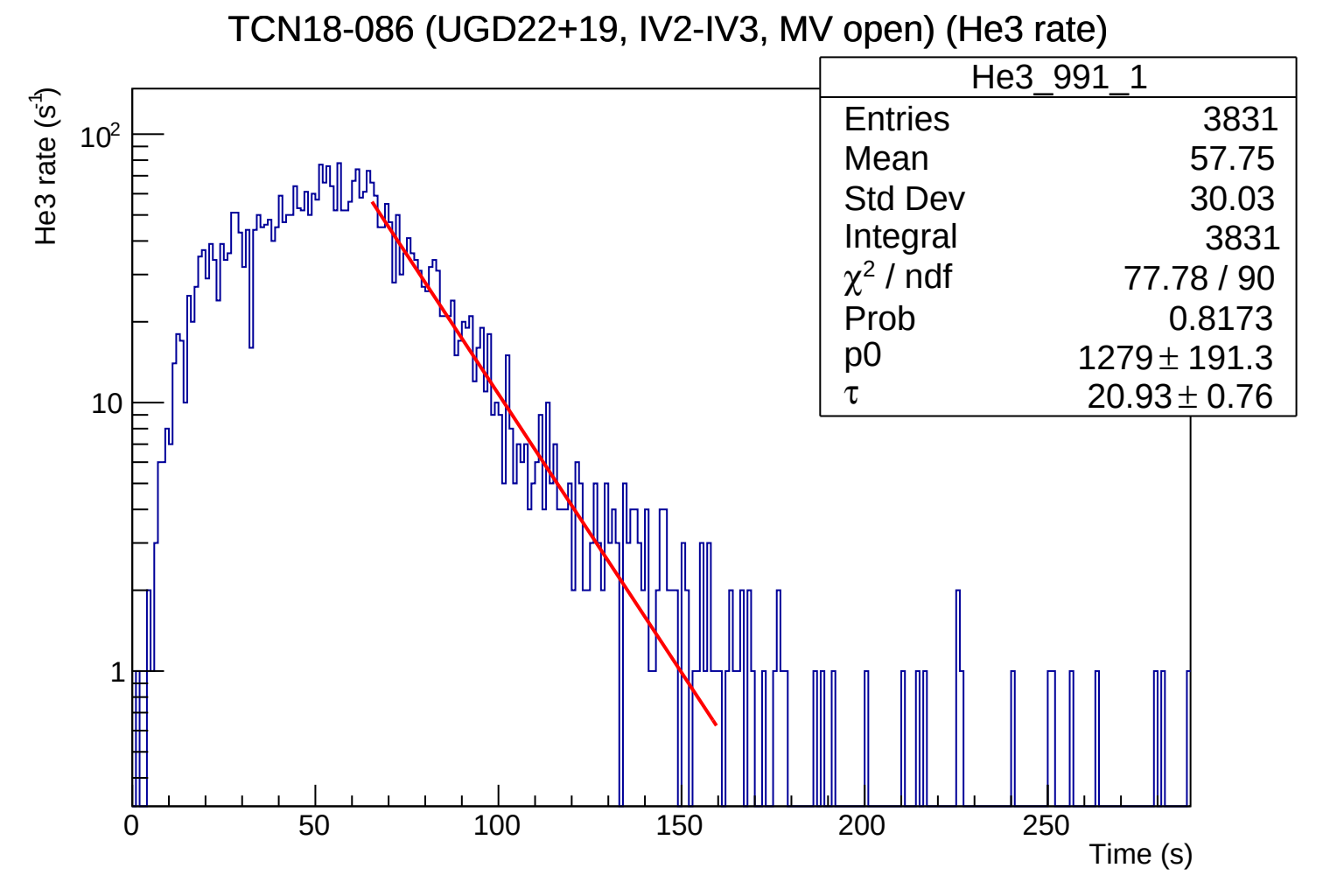
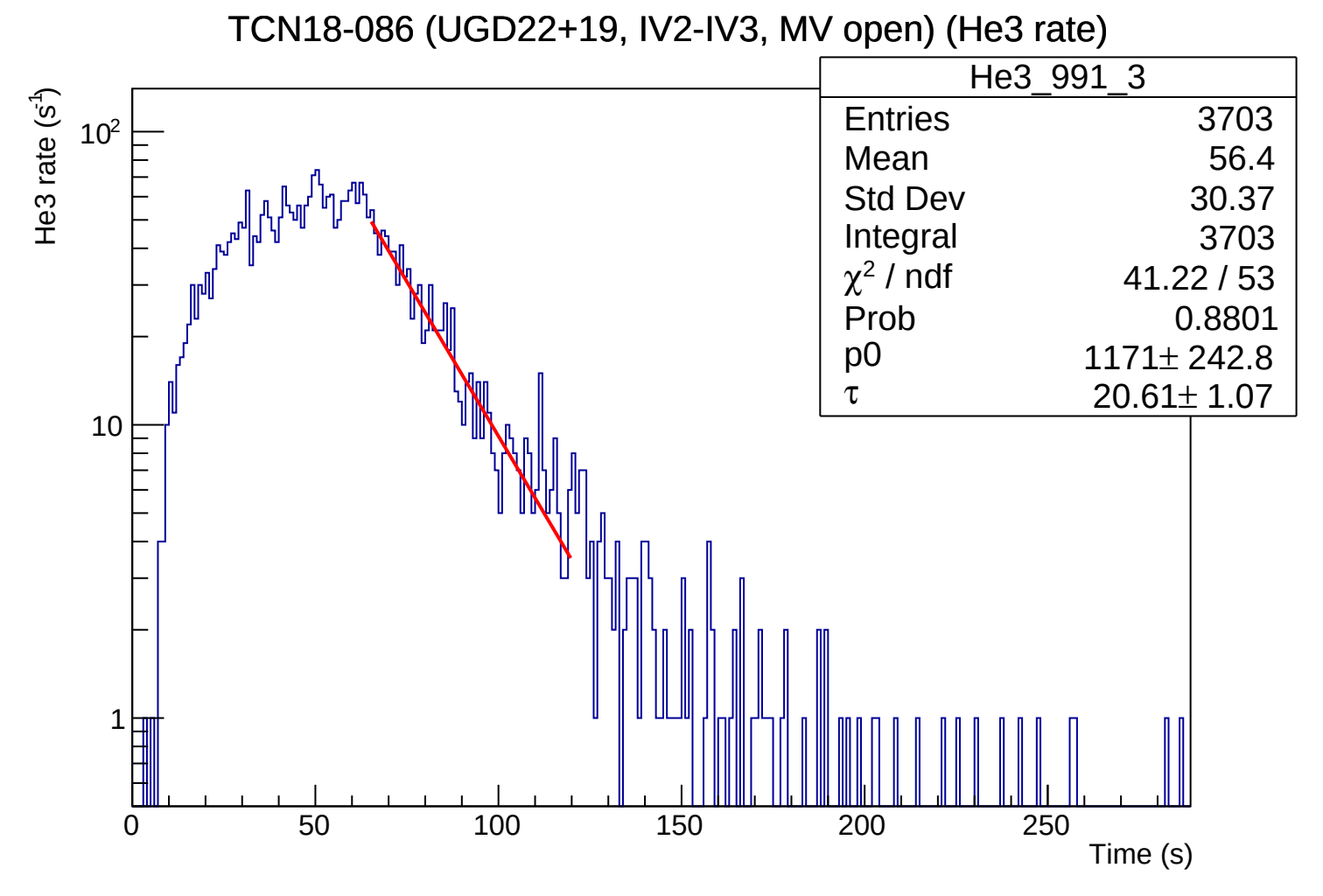

TCN18-086 (UGD22+19, IV2-IV3, MV open) (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)
χ² / ndf 311.3 / 83
Prob 3.92e–28
p0 5.602 ± 0.06892
τ 15.61± 0.1773
UCN-count-to-monitor ratio
1
10⁻¹
10⁻²
0
20
40
60
80
100
Storage time (s)

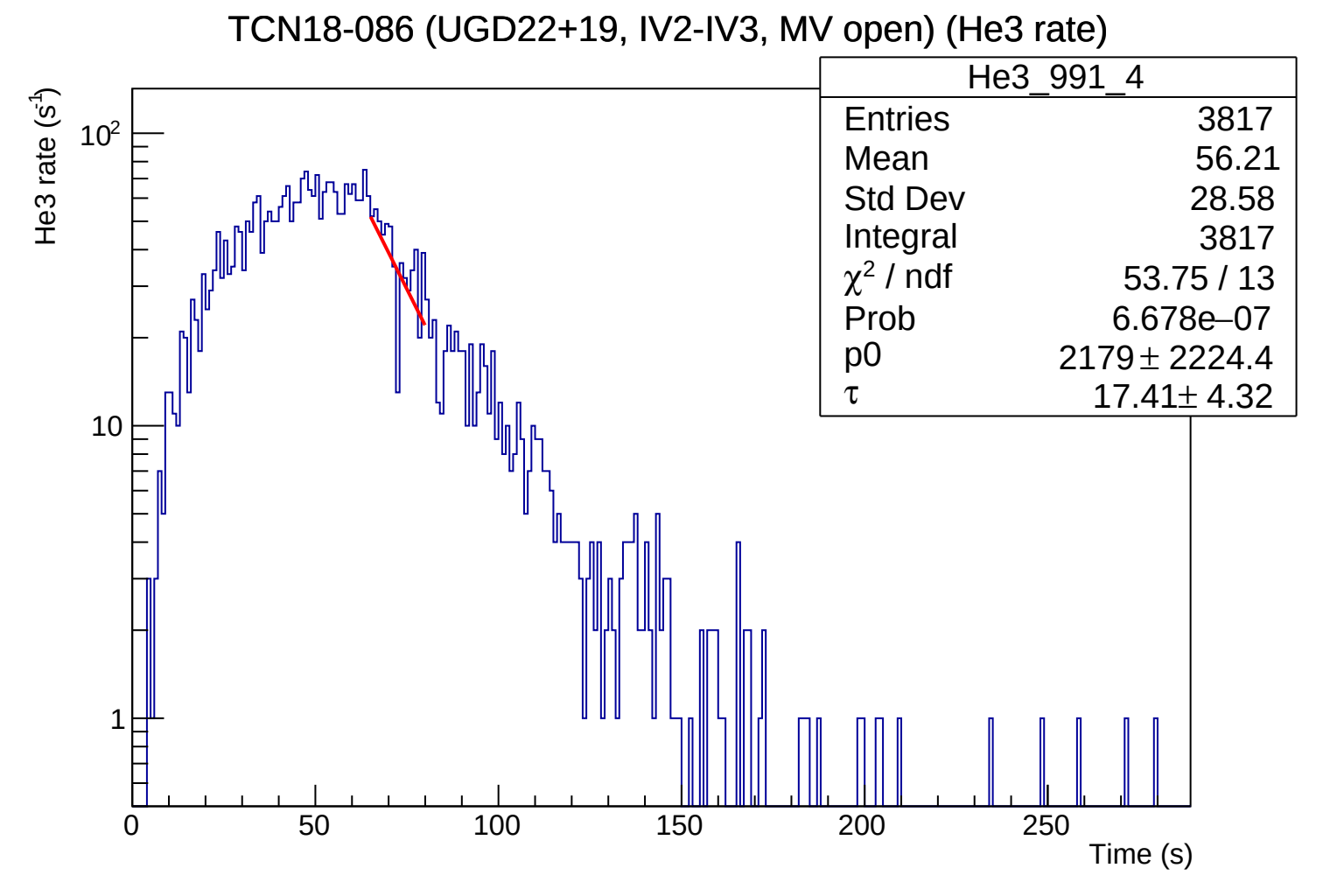
TCN18-086 (UGD22+19, IV2-IV3, MV open) (double exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)

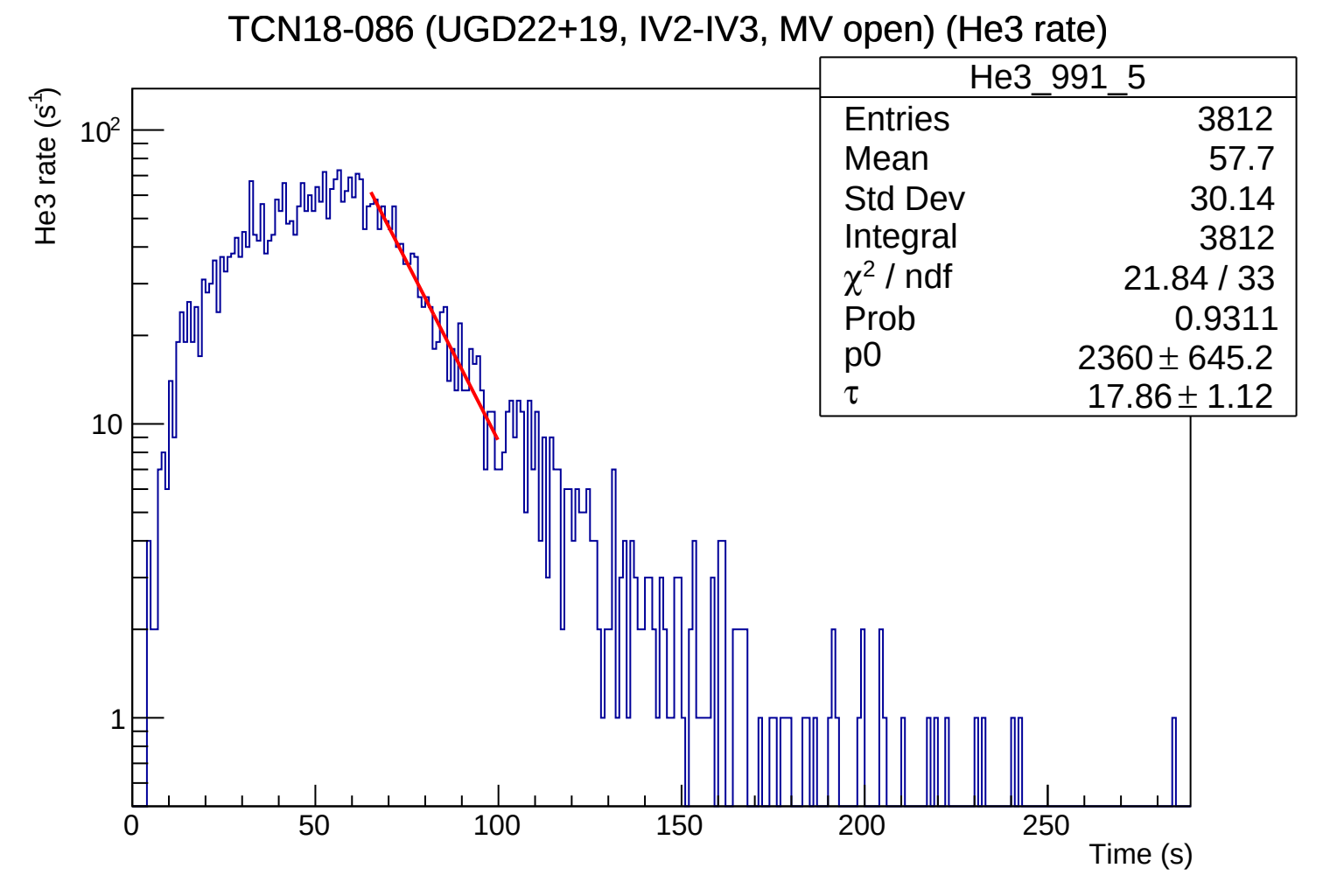


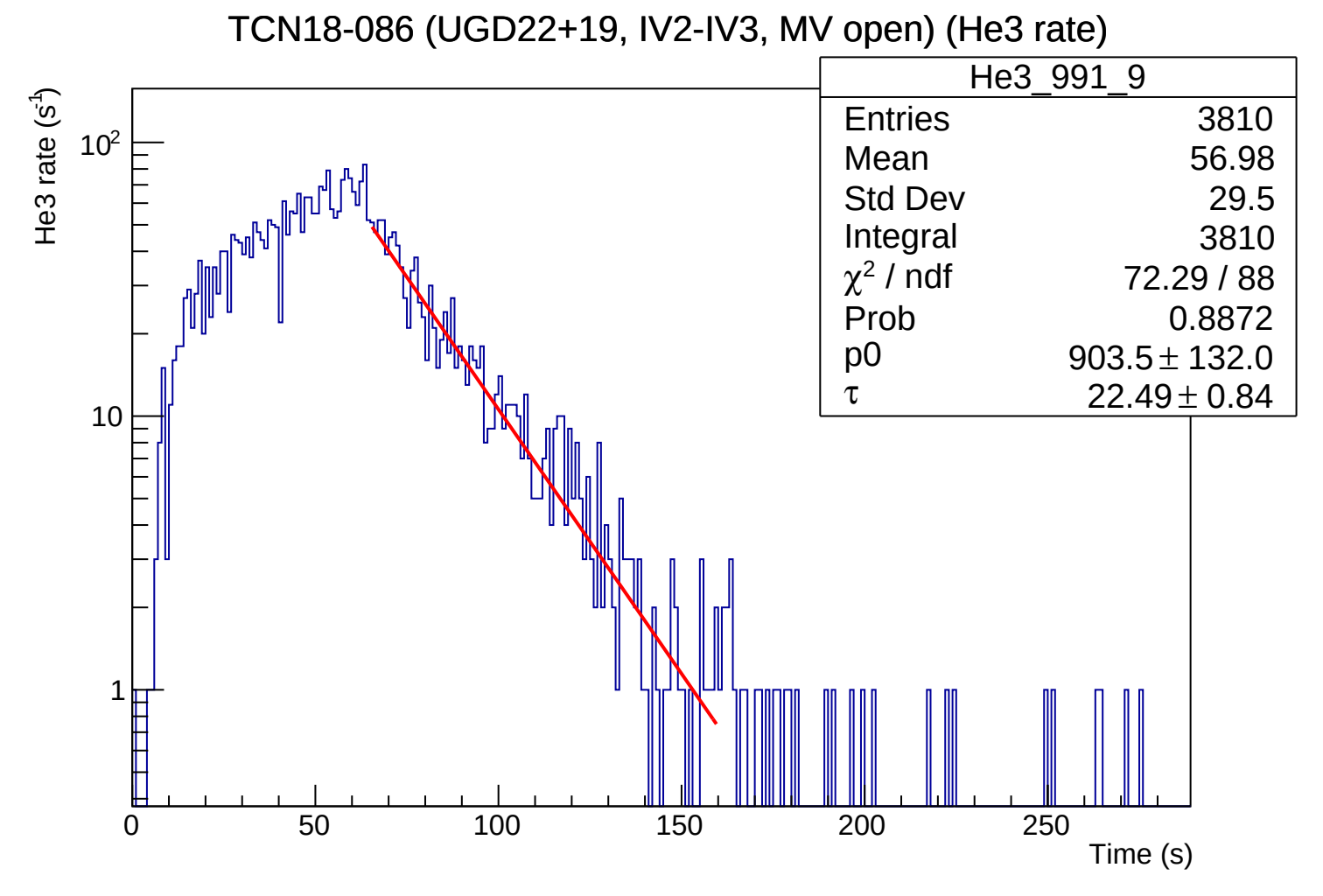

Graph
Vapor pressure (torr)
0.42
0.4
0.38
0.36
0.34
0.32
0.3
Temperature (K)
1.14
1.13
1.12
1.11
1.1
0
20
40
60
80
100
Cycle

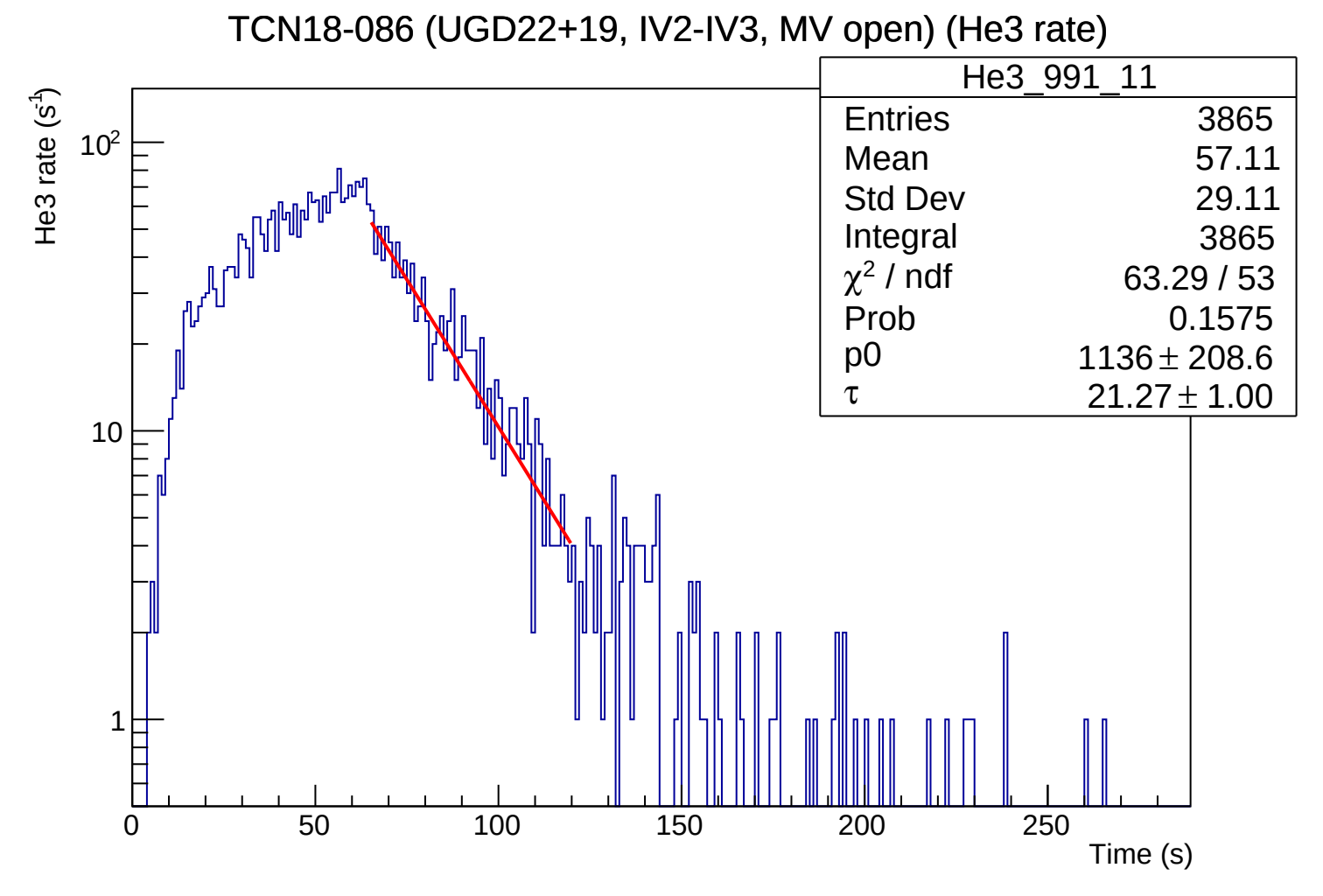

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_1
Entries 3831
Mean 57.75
Std Dev 30.03
Integral 3831
χ² / ndf 77.78 / 90
Prob 0.8173
p0 1279 ± 191.3
τ 20.93 ± 0.76
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

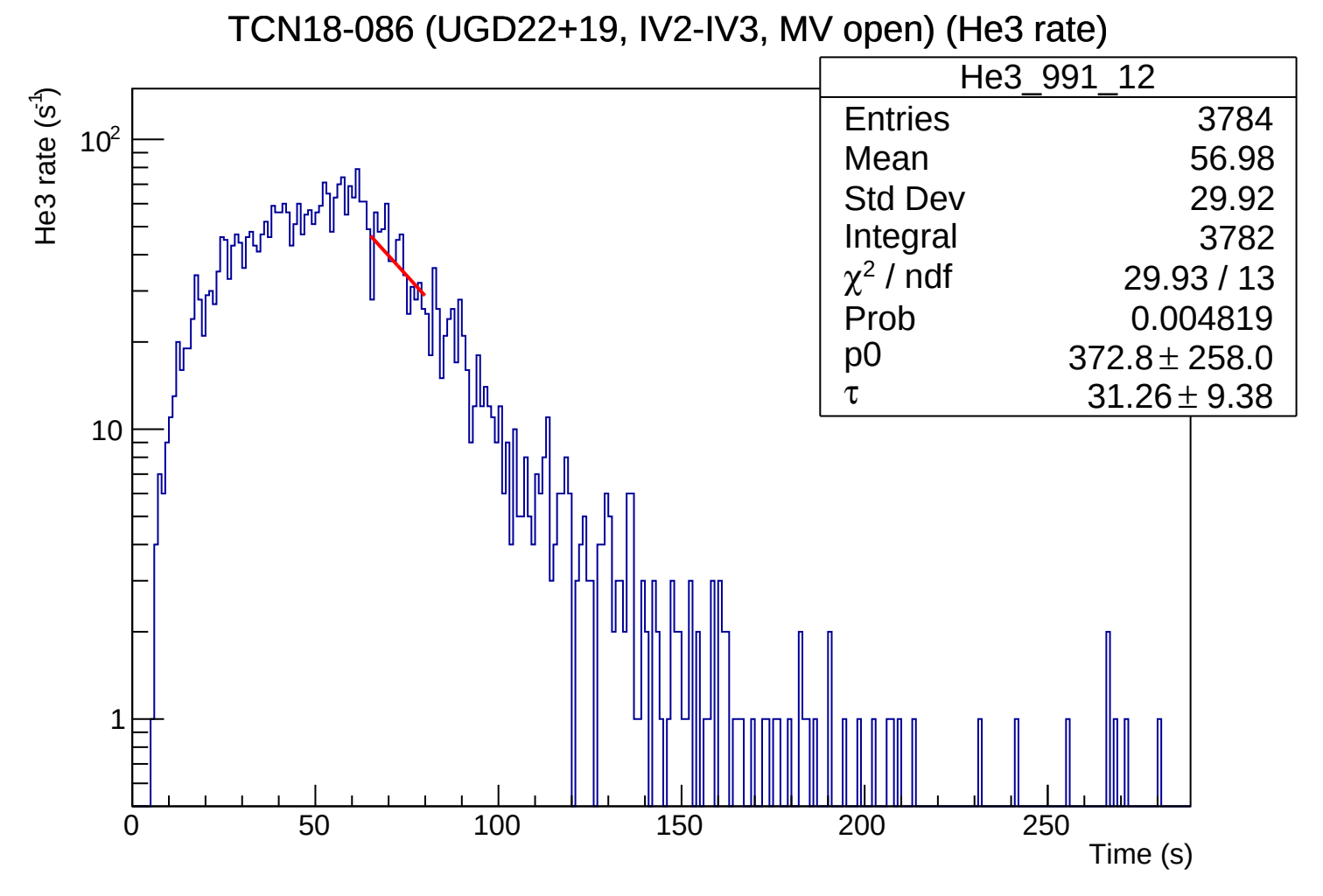

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_3
Entries 3703
Mean 56.4
Std Dev 30.37
Integral 3703
χ² / ndf 41.22 / 53
Prob 0.8801
p0 1171± 242.8
τ 20.61± 1.07
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

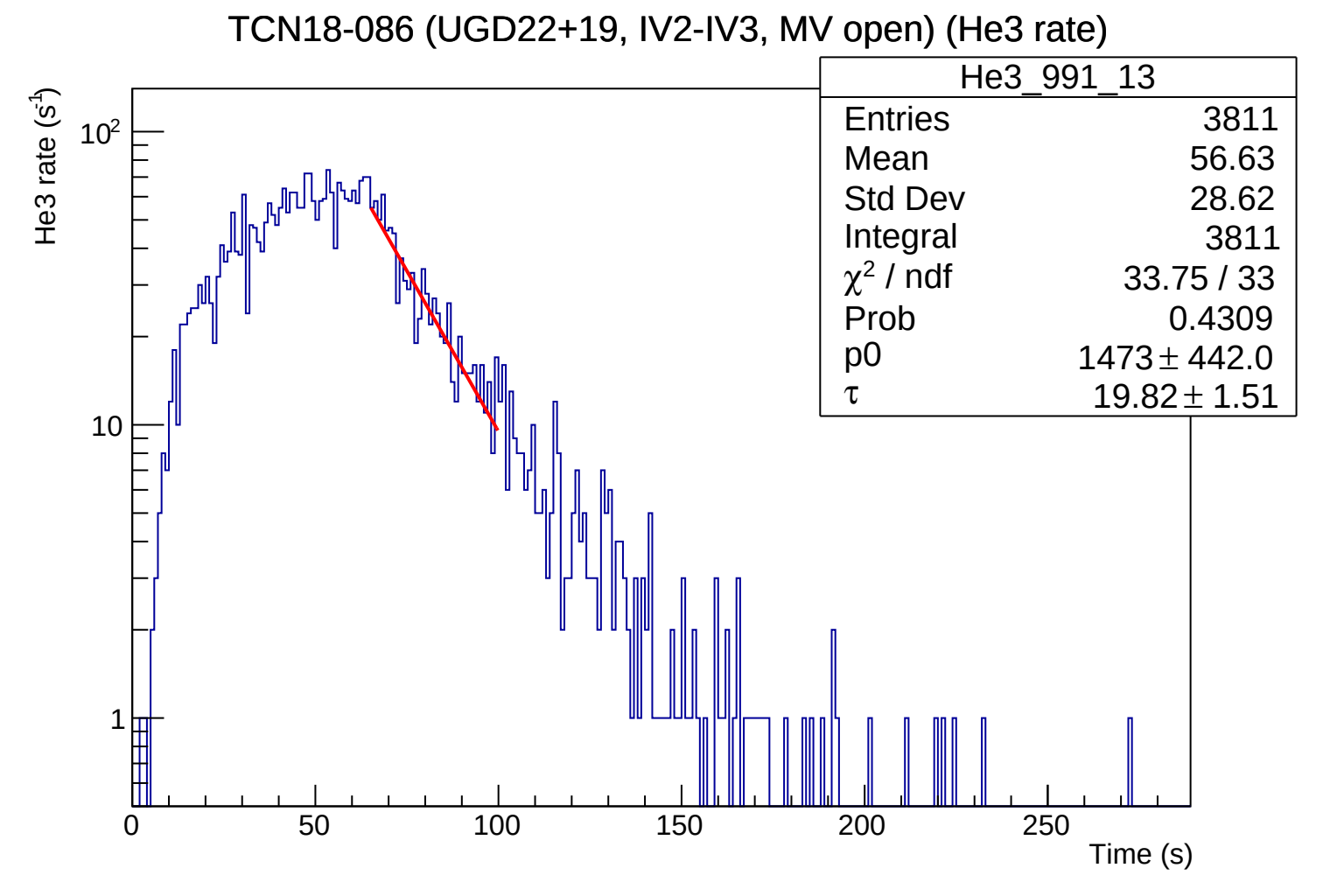

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_4
Entries 3817
Mean 56.21
Std Dev 28.58
Integral 3817
χ² / ndf 53.75 / 13
Prob 6.678e–07
p0 2179 ± 2224.4
τ 17.41 ± 4.32
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

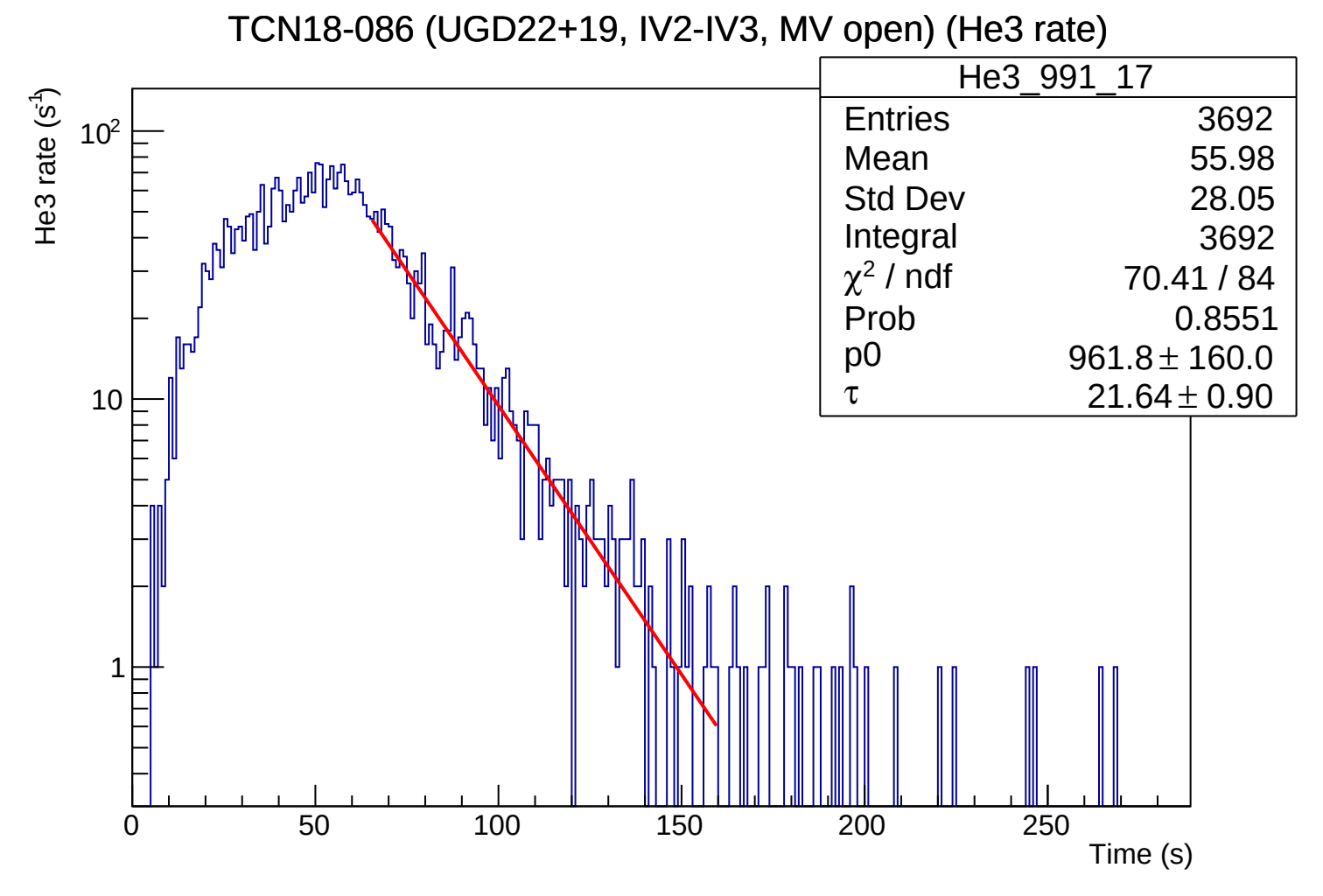

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_5
Entries 3812
Mean 57.7
Std Dev 30.14
Integral 3812
χ² / ndf 21.84 / 33
Prob 0.9311
p0 2360 ± 645.2
τ 17.86 ± 1.12
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

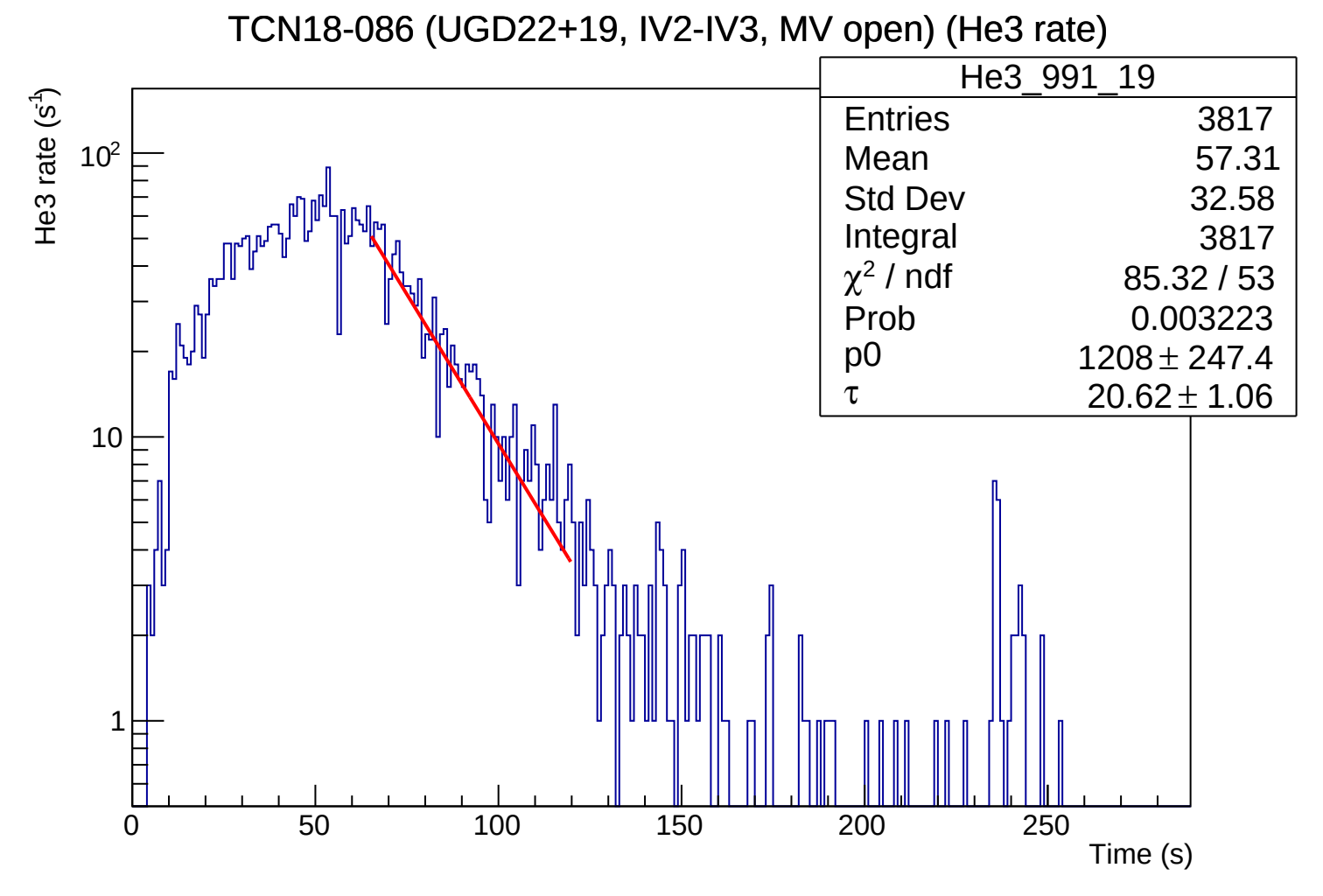

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_9
Entries 3810
Mean 56.98
Std Dev 29.5
Integral 3810
χ² / ndf 72.29 / 88
Prob 0.8872
p0 903.5 ± 132.0
τ 22.49 ± 0.84
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

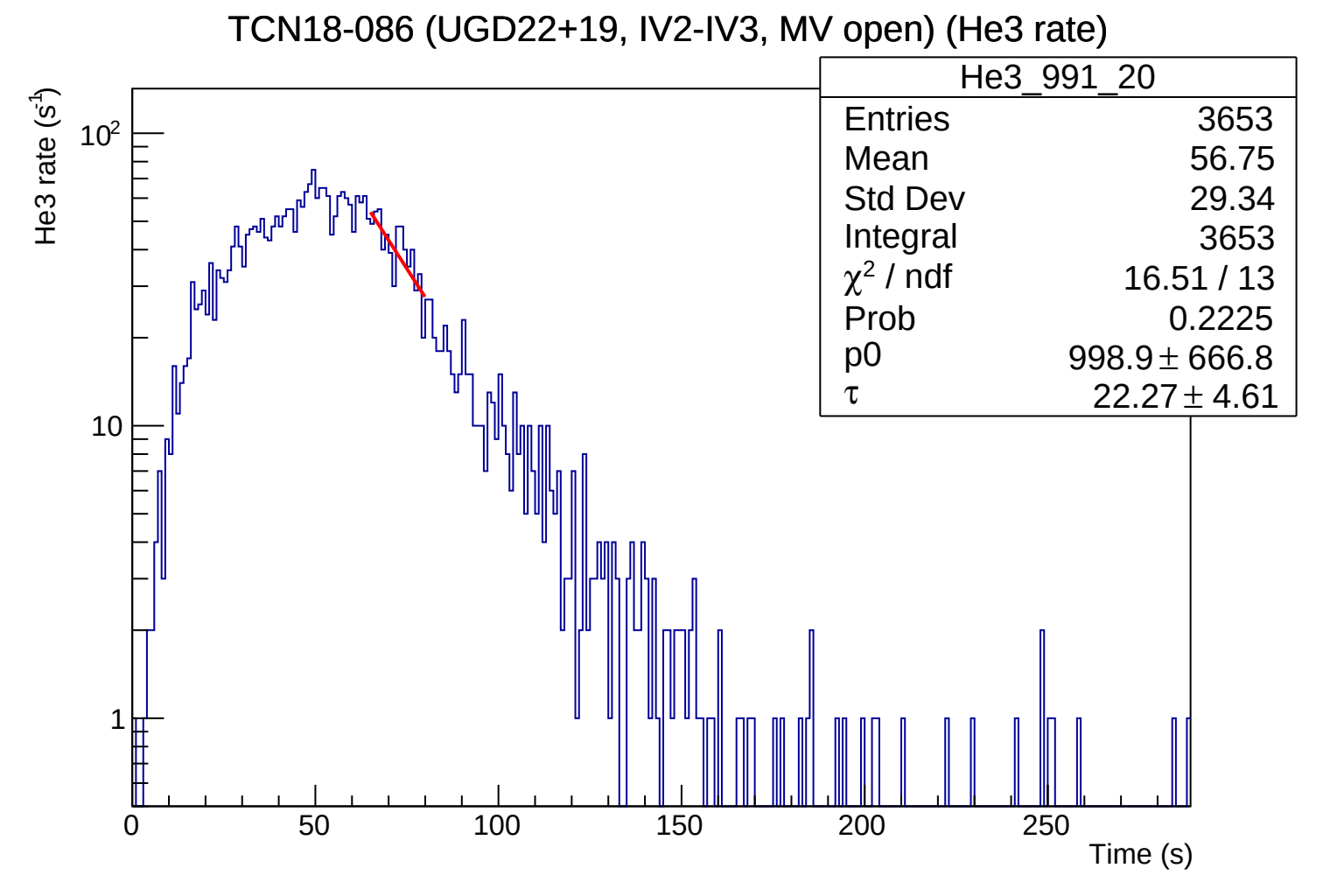

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_11
Entries 3865
Mean 57.11
Std Dev 29.11
Integral 3865
χ² / ndf 63.29 / 53
Prob 0.1575
p0 1136 ± 208.6
τ 21.27 ± 1.00
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

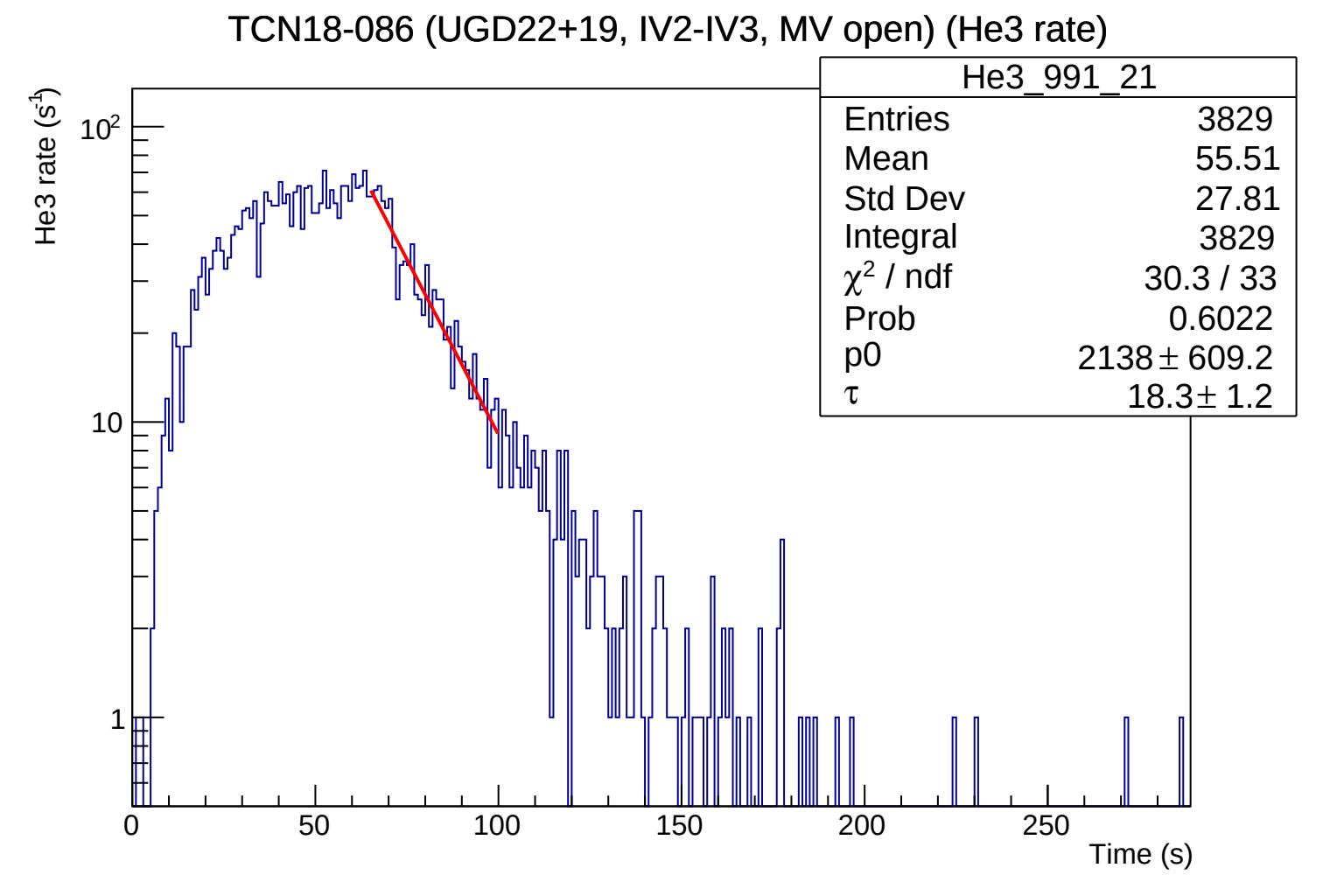

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_12
Entries 3784
Mean 56.98
Std Dev 29.92
Integral 3782
χ² / ndf 29.93 / 13
Prob 0.004819
p0 372.8 ± 258.0
τ 31.26 ± 9.38
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

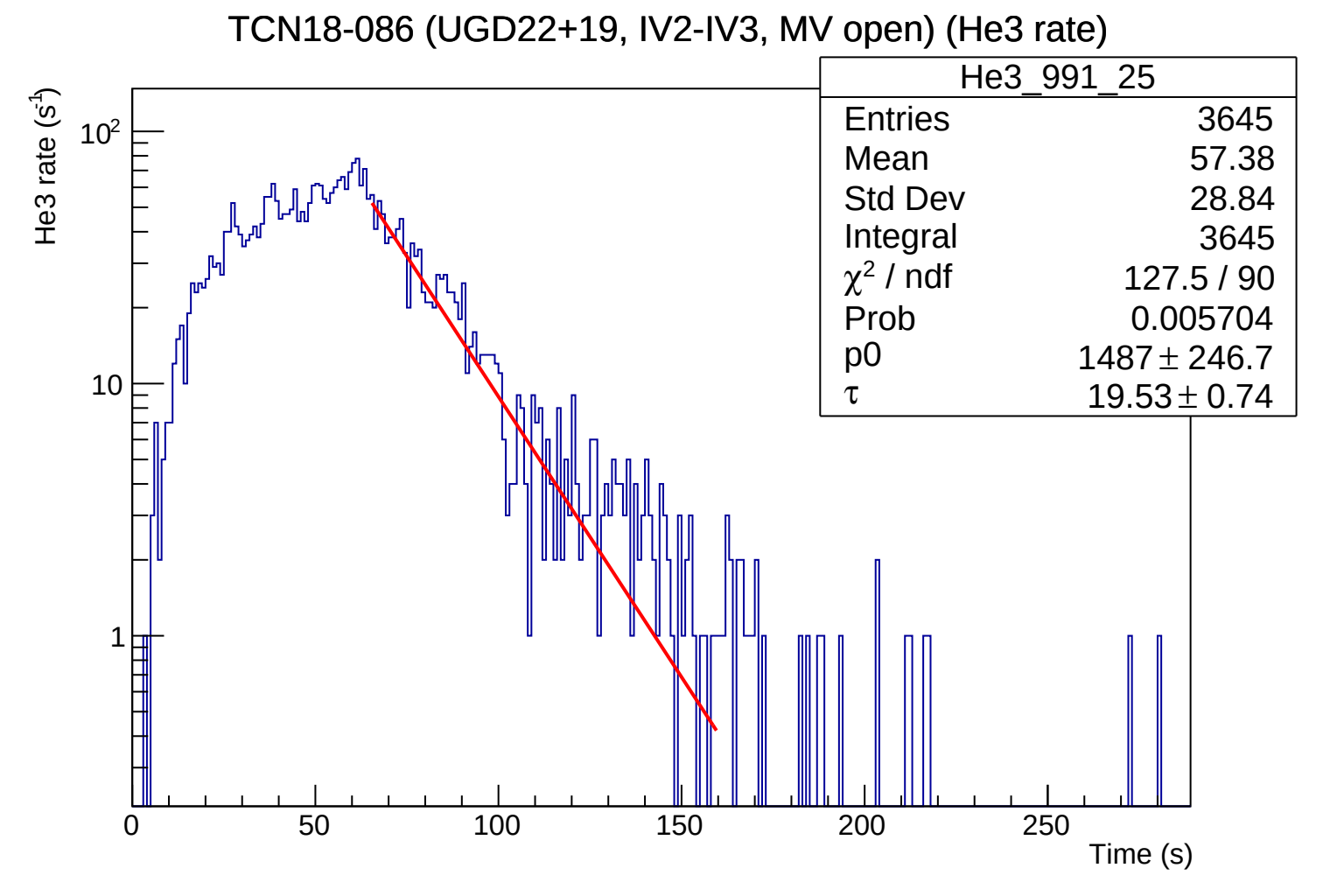

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_13
Entries 3811
Mean 56.63
Std Dev 28.62
Integral 3811
χ² / ndf 33.75 / 33
Prob 0.4309
p0 1473 ± 442.0
τ 19.82 ± 1.51
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

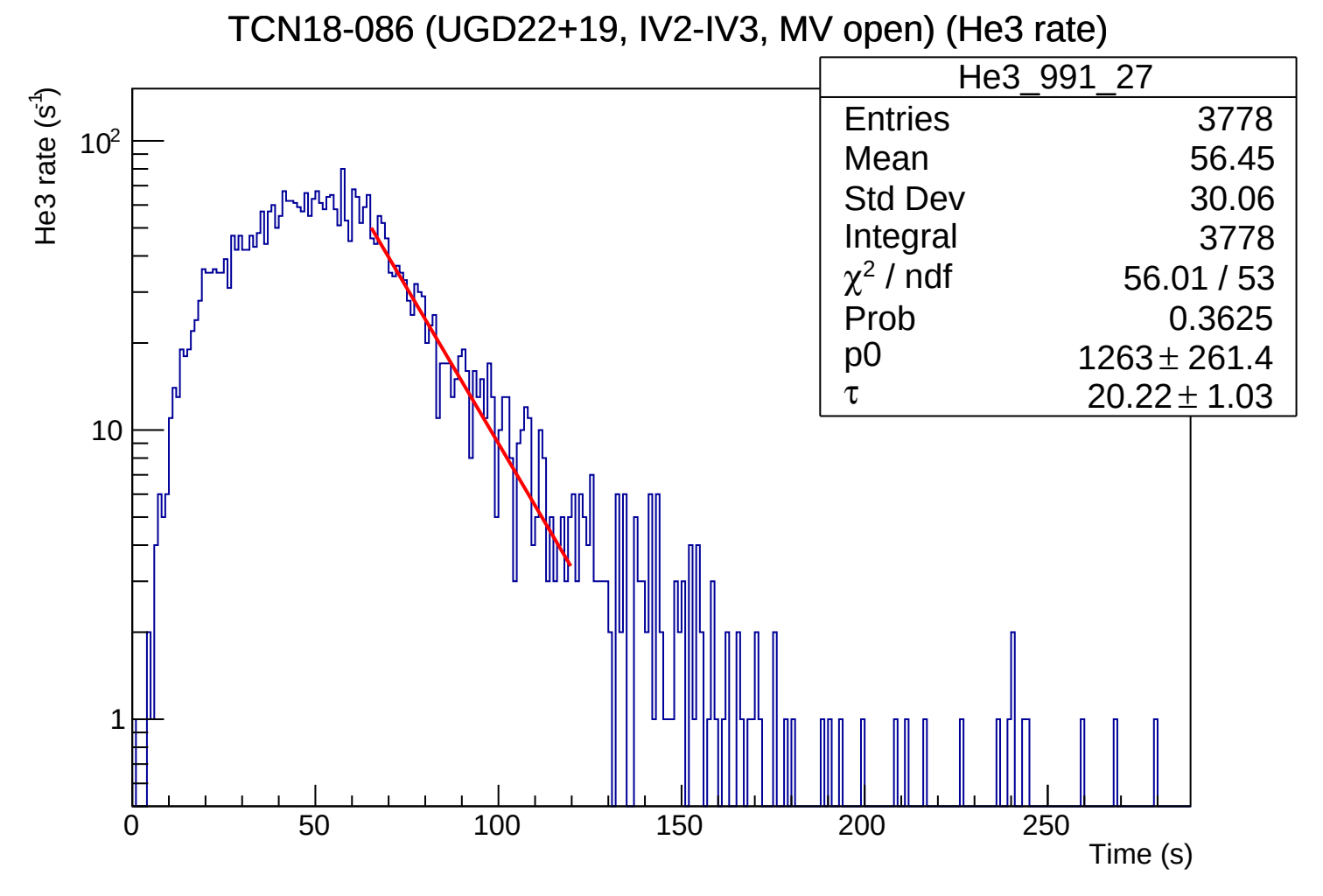

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_17
Entries 3692
Mean 55.98
Std Dev 28.05
Integral 3692
χ² / ndf 70.41 / 84
Prob 0.8551
p0 961.8 ± 160.0
τ 21.64 ± 0.90
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

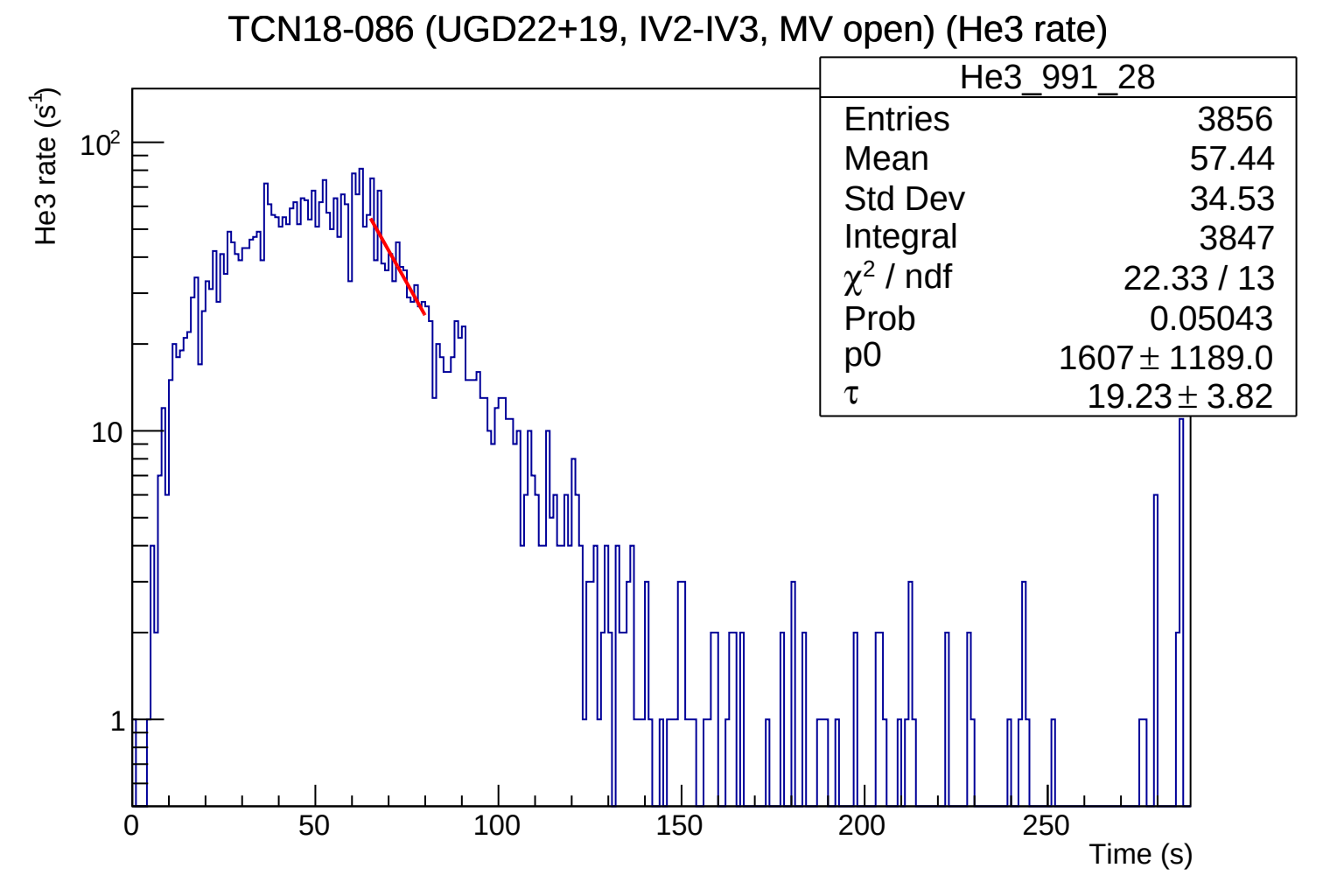

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_19
Entries 3817
Mean 57.31
Std Dev 32.58
Integral 3817
χ² / ndf 85.32 / 53
Prob 0.003223
p0 1208 ± 247.4
τ 20.62 ± 1.06
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

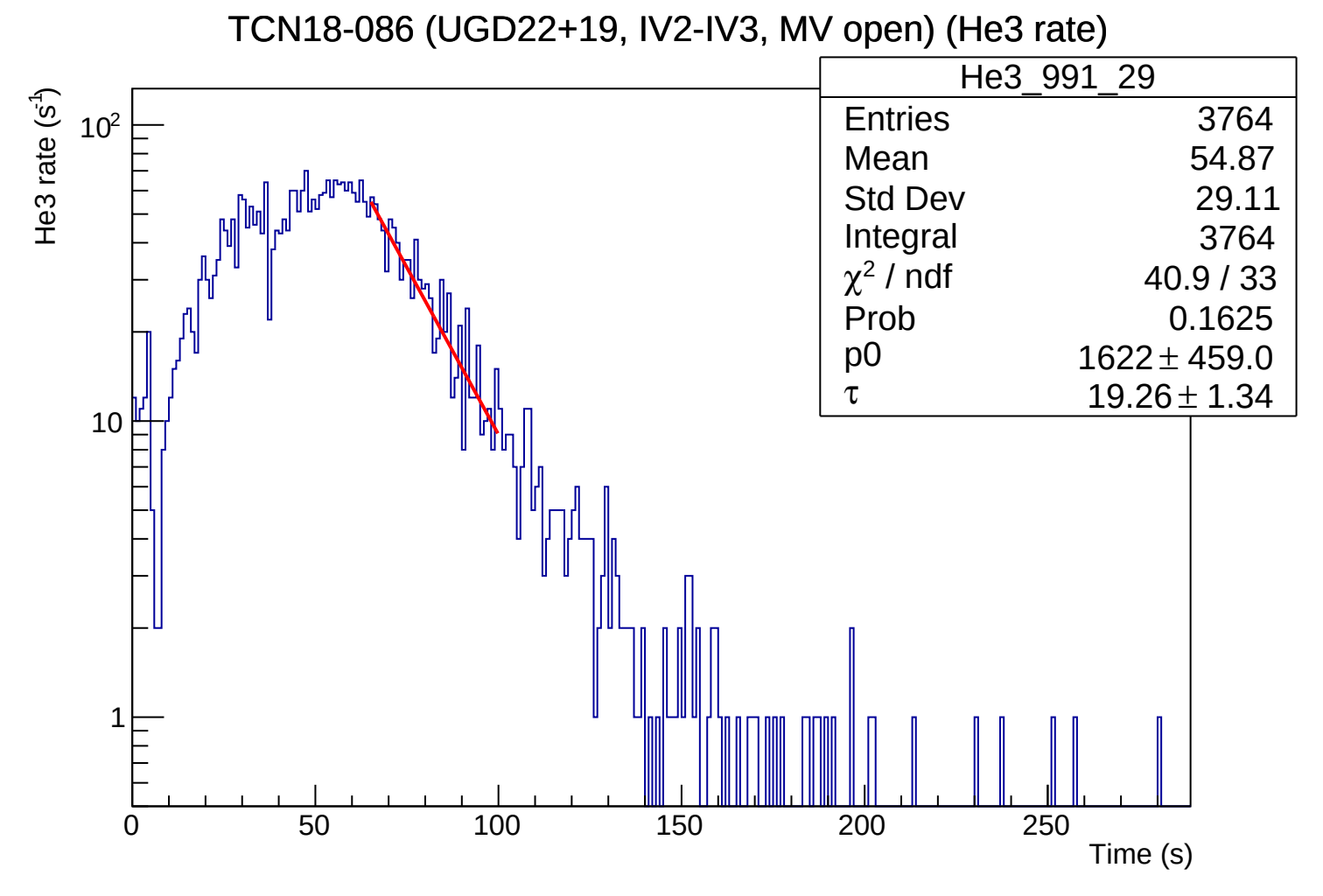

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_20
Entries 3653
Mean 56.75
Std Dev 29.34
Integral 3653
χ² / ndf 16.51 / 13
Prob 0.2225
p0 998.9 ± 666.8
τ 22.27 ± 4.61
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

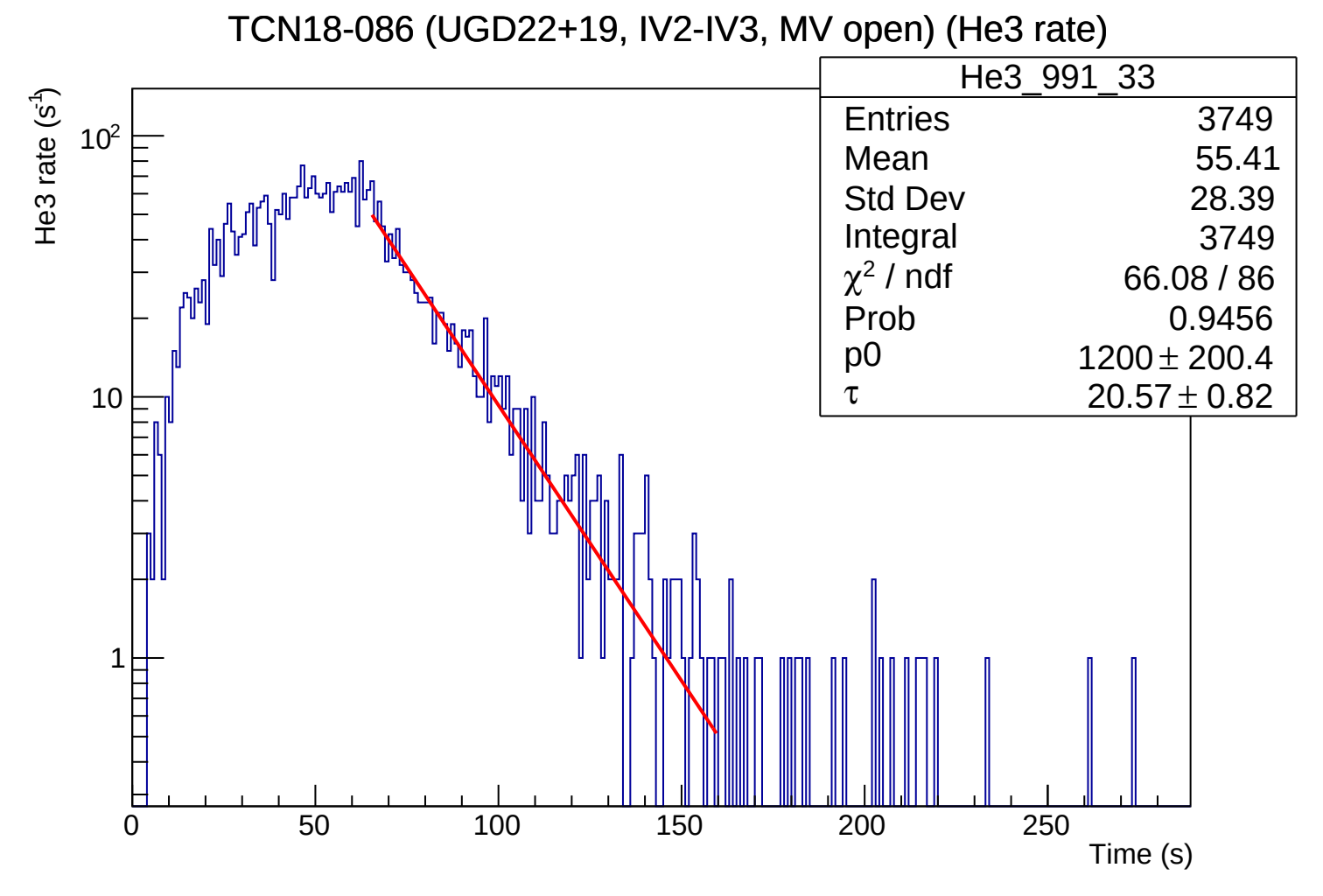

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_21
Entries 3829
Mean 55.51
Std Dev 27.81
Integral 3829
χ² / ndf 30.3 / 33
Prob 0.6022
p0 2138 ± 609.2
τ 18.3 ± 1.2
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

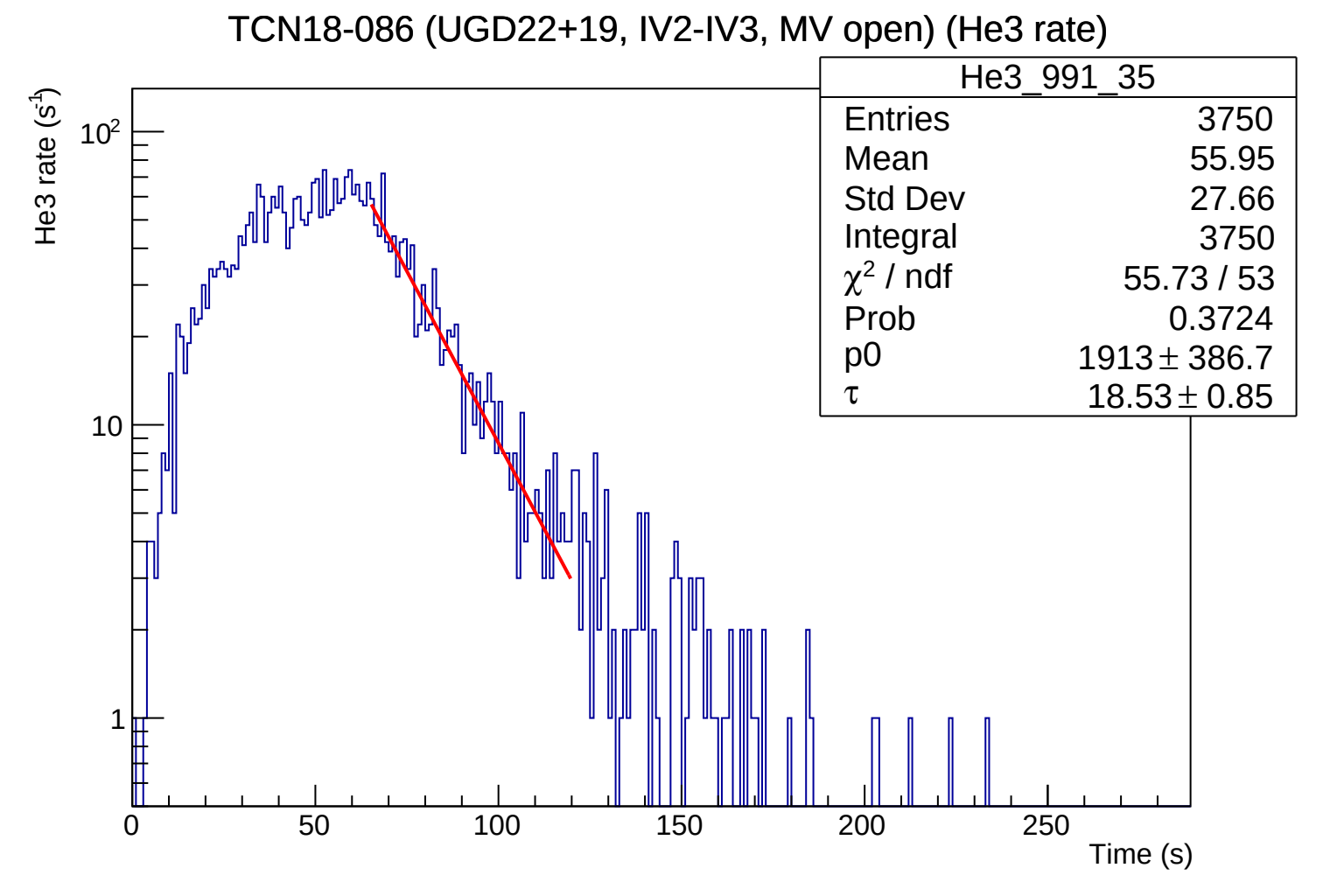

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_25
Entries 3645
Mean 57.38
Std Dev 28.84
Integral 3645
χ² / ndf 127.5 / 90
Prob 0.005704
p0 1487 ± 246.7
τ 19.53 ± 0.74
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

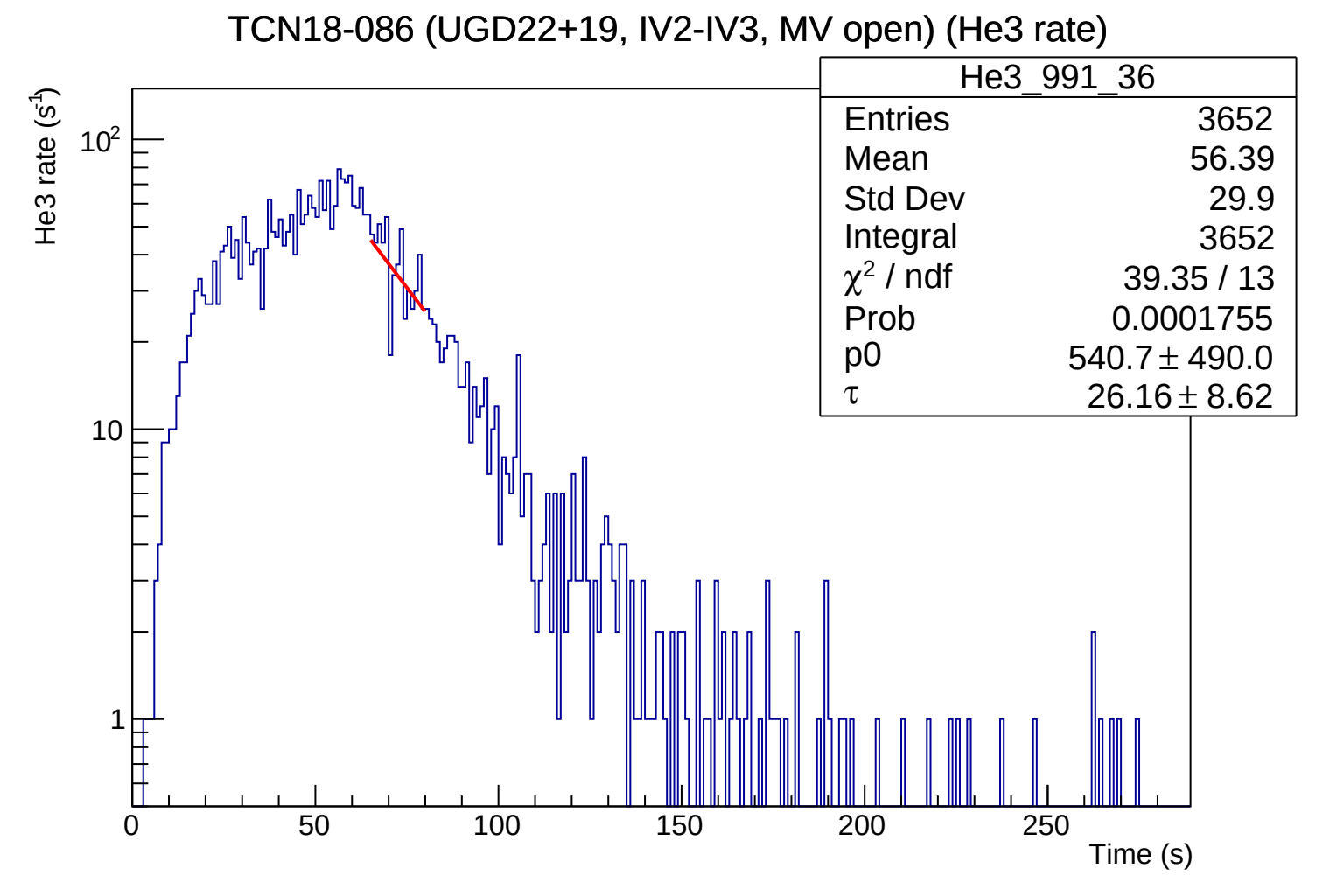

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_27
Entries 3778
Mean 56.45
Std Dev 30.06
Integral 3778
χ² / ndf 56.01 / 53
Prob 0.3625
p0 1263 ± 261.4
τ 20.22 ± 1.03
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

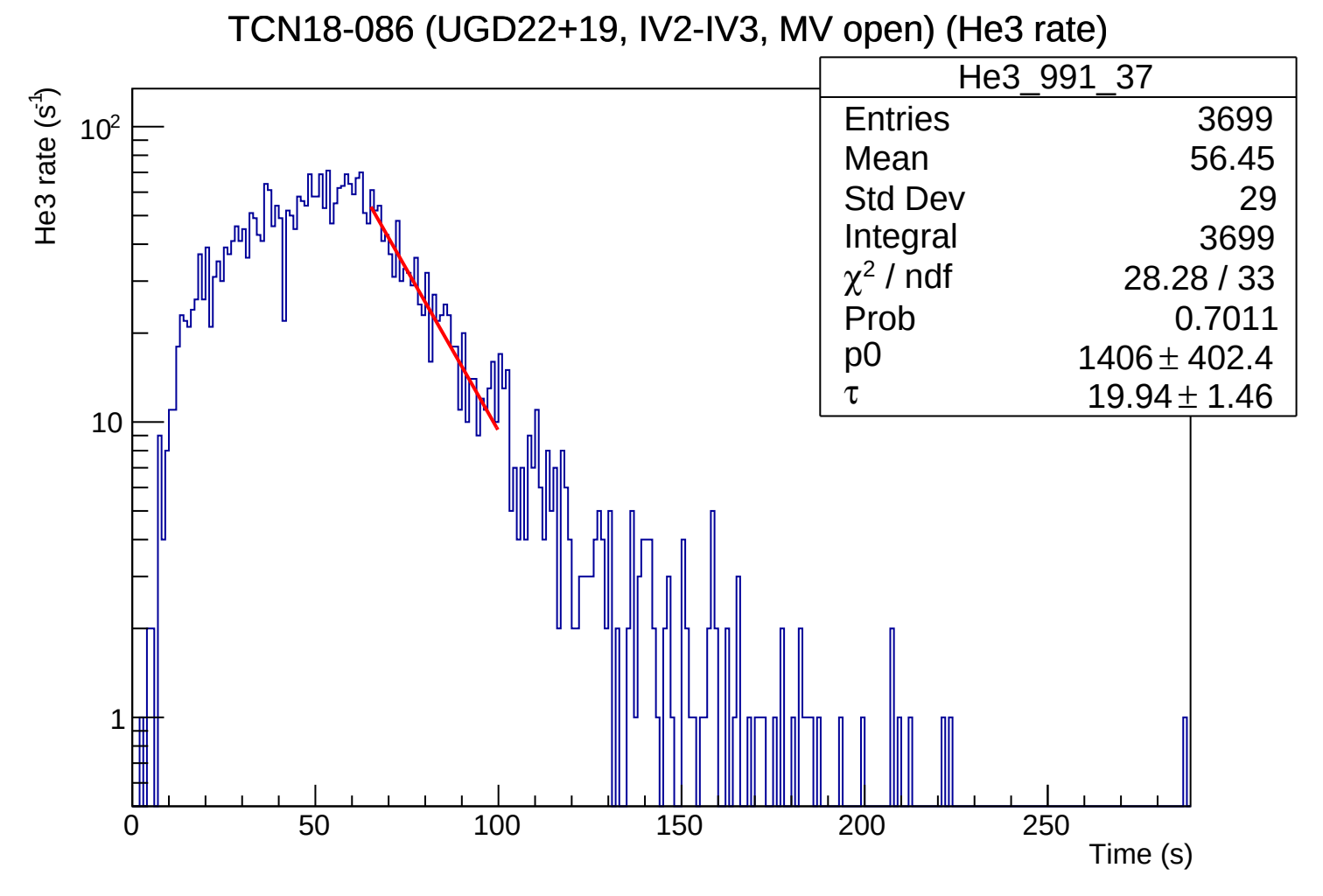

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_28
Entries 3856
Mean 57.44
Std Dev 34.53
Integral 3847
χ² / ndf 22.33 / 13
Prob 0.05043
p0 1607 ± 1189.0
τ 19.23 ± 3.82
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

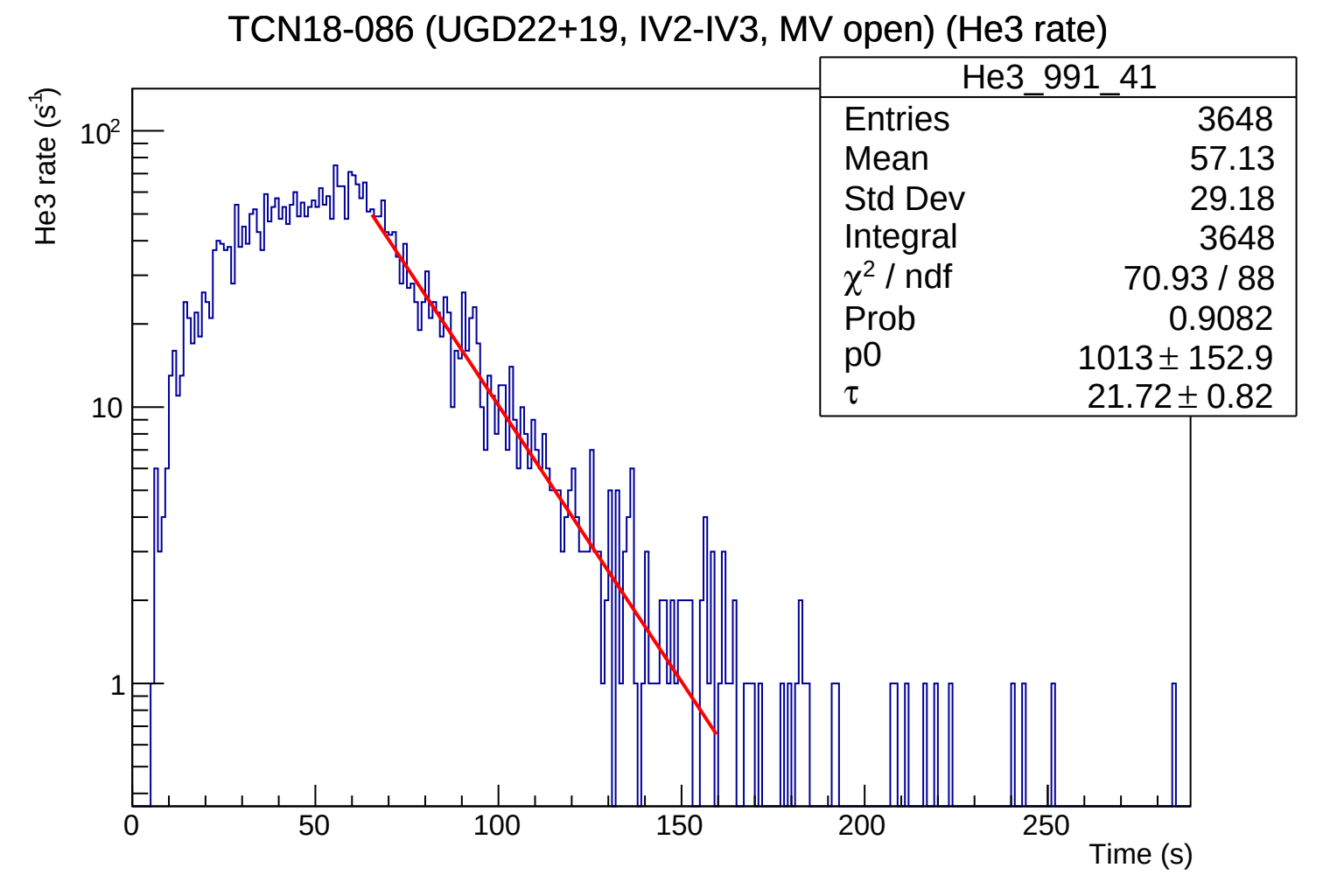

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_29
Entries 3764
Mean 54.87
Std Dev 29.11
Integral 3764
χ² / ndf 40.9 / 33
Prob 0.1625
p0 1622 ± 459.0
τ 19.26 ± 1.34
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

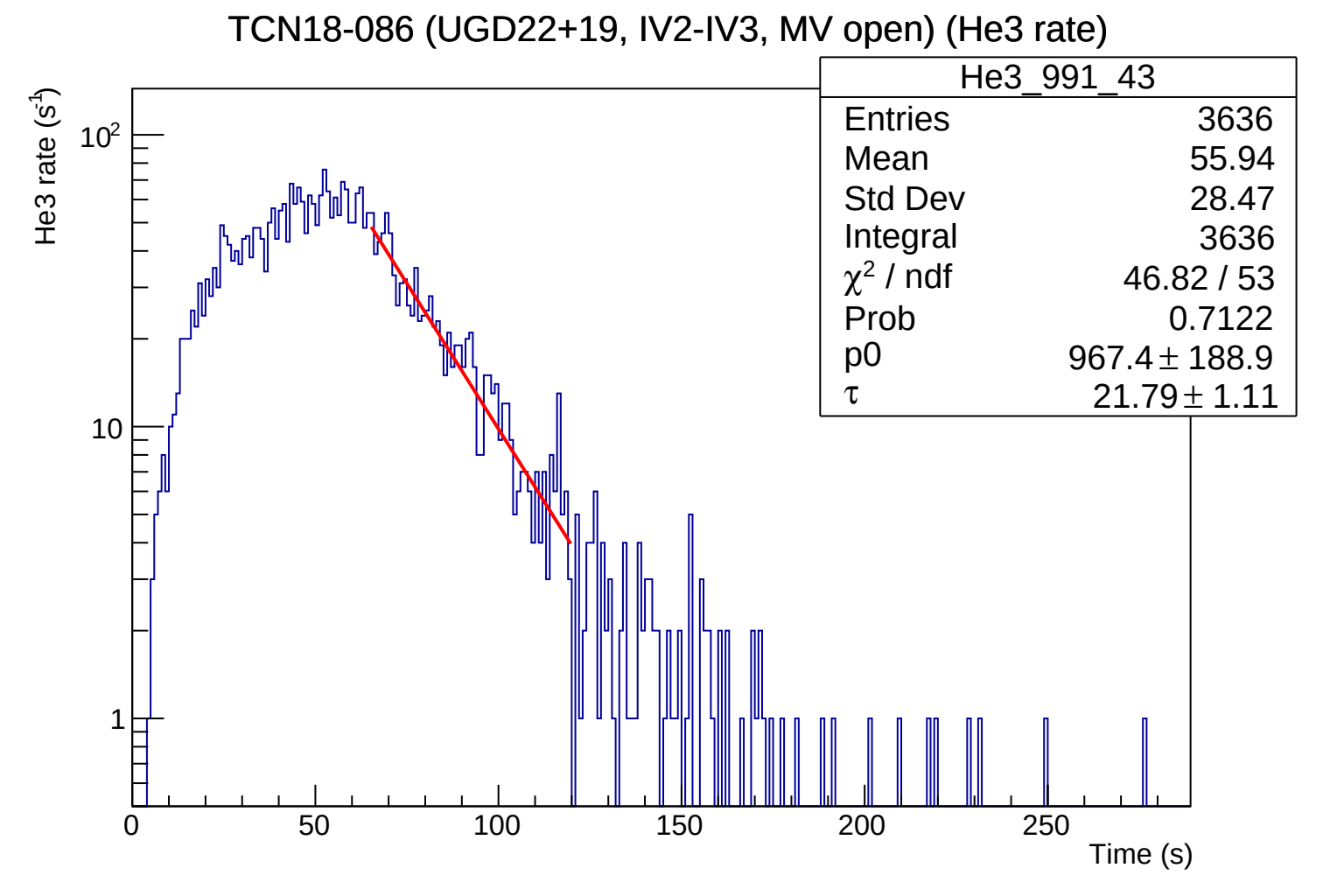

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_33
Entries 3749
Mean 55.41
Std Dev 28.39
Integral 3749
χ² / ndf 66.08 / 86
Prob 0.9456
p0 1200 ± 200.4
τ 20.57 ± 0.82
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

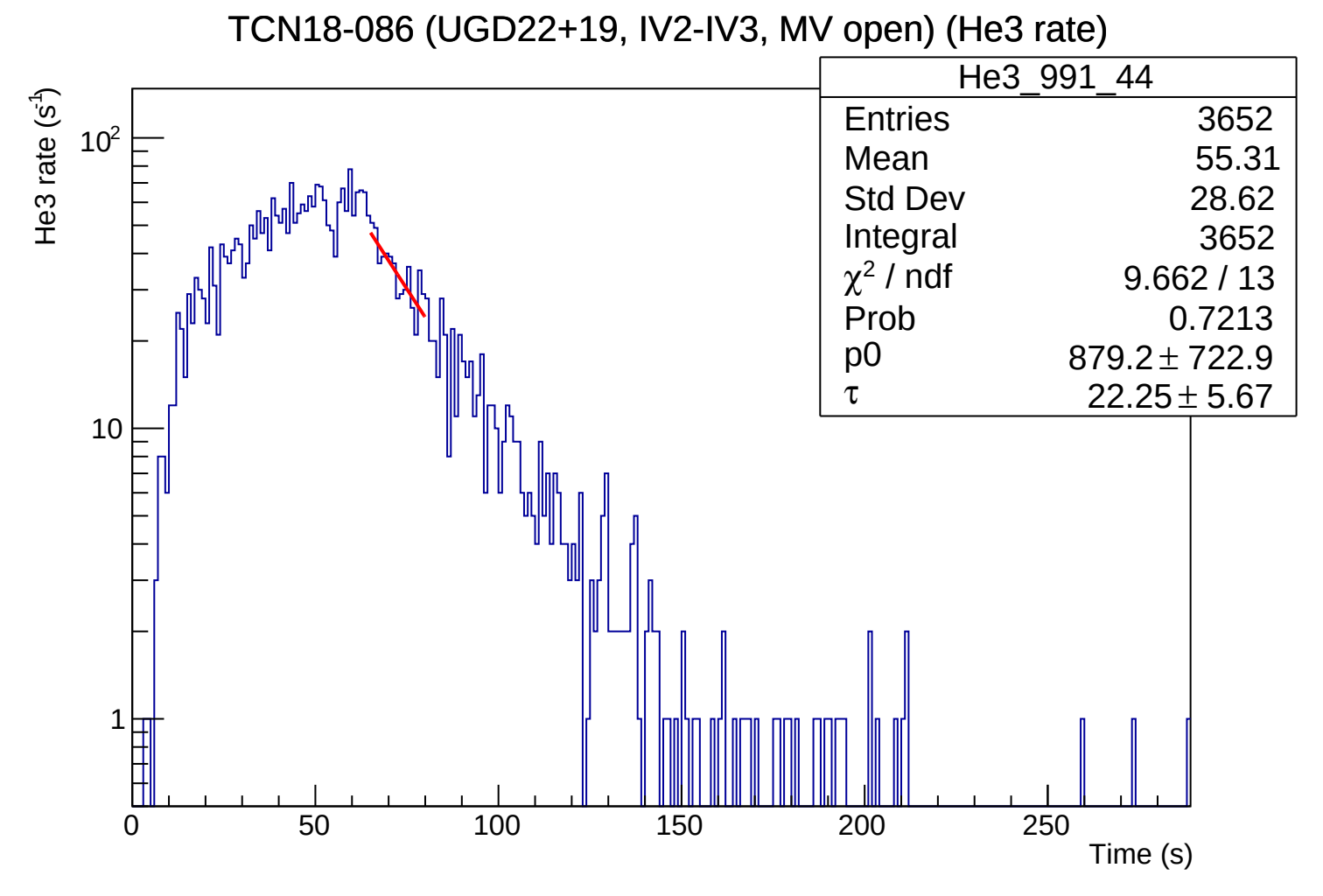

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_35
Entries 3750
Mean 55.95
Std Dev 27.66
Integral 3750
χ² / ndf 55.73 / 53
Prob 0.3724
p0 1913 ± 386.7
τ 18.53 ± 0.85
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

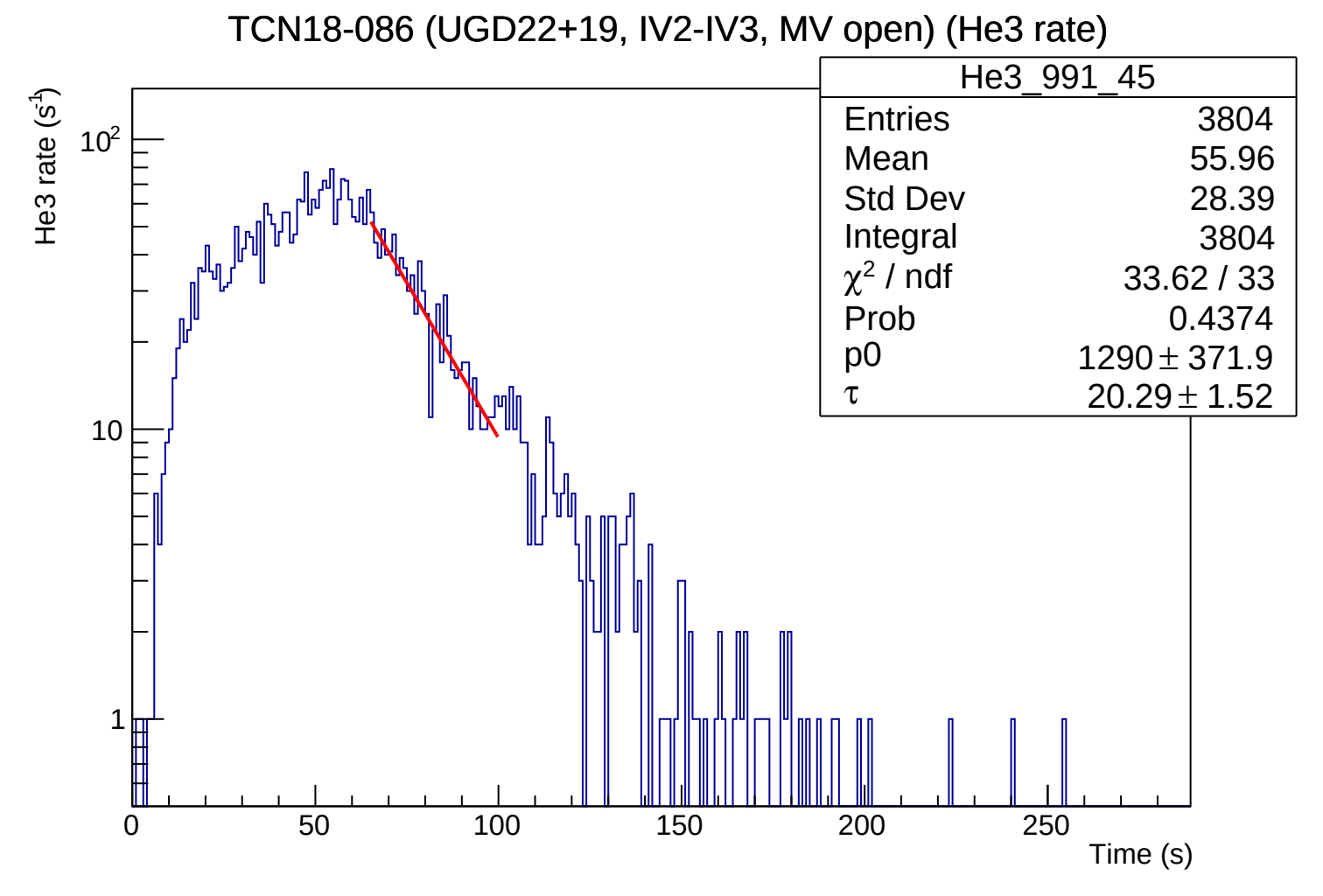

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_36
Entries 3652
Mean 56.39
Std Dev 29.9
Integral 3652
χ² / ndf 39.35 / 13
Prob 0.0001755
p0 540.7 ± 490.0
τ 26.16 ± 8.62
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

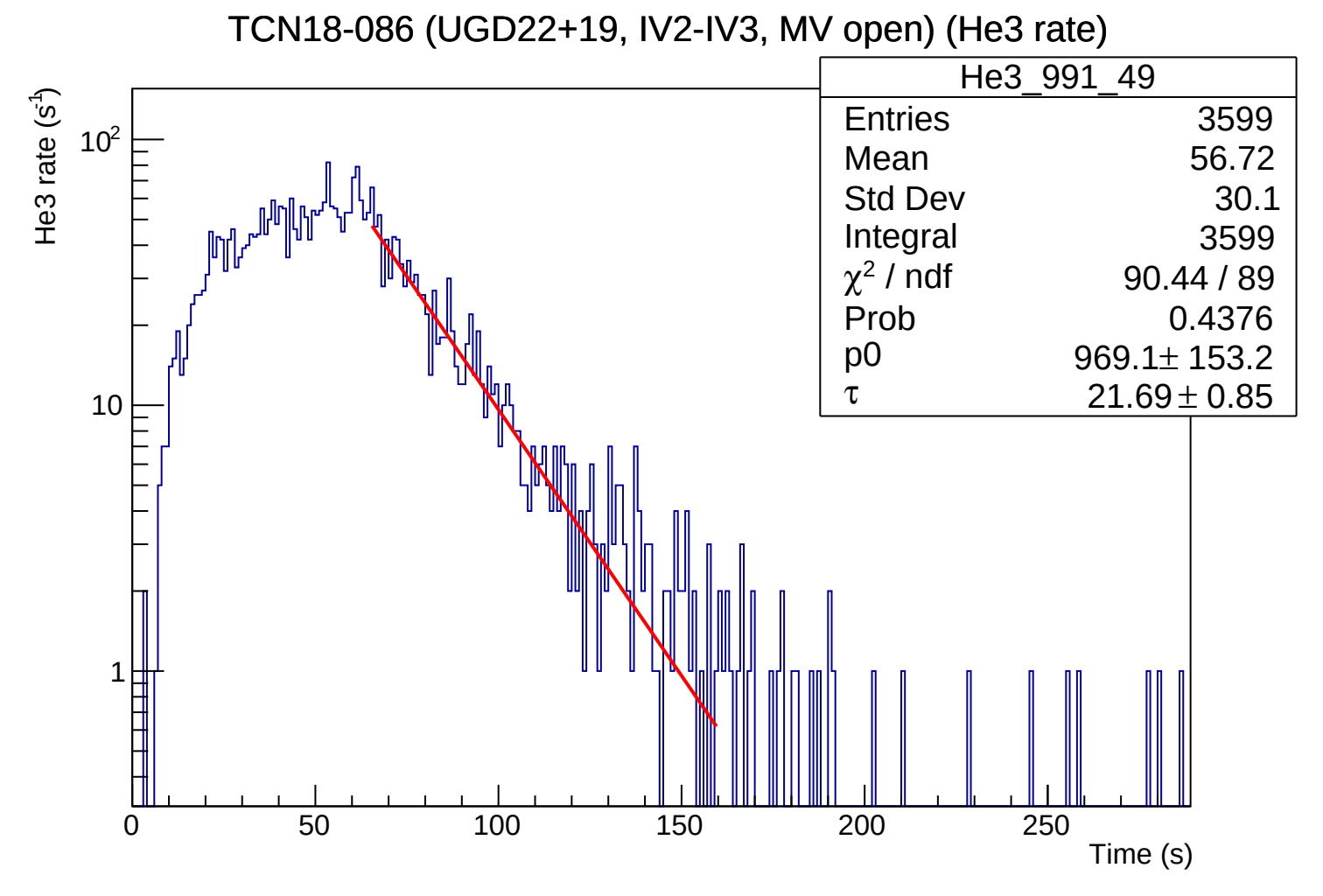

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_37
Entries 3699
Mean 56.45
Std Dev 29
Integral 3699
χ² / ndf 28.28 / 33
Prob 0.7011
p0 1406 ± 402.4
τ 19.94 ± 1.46
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

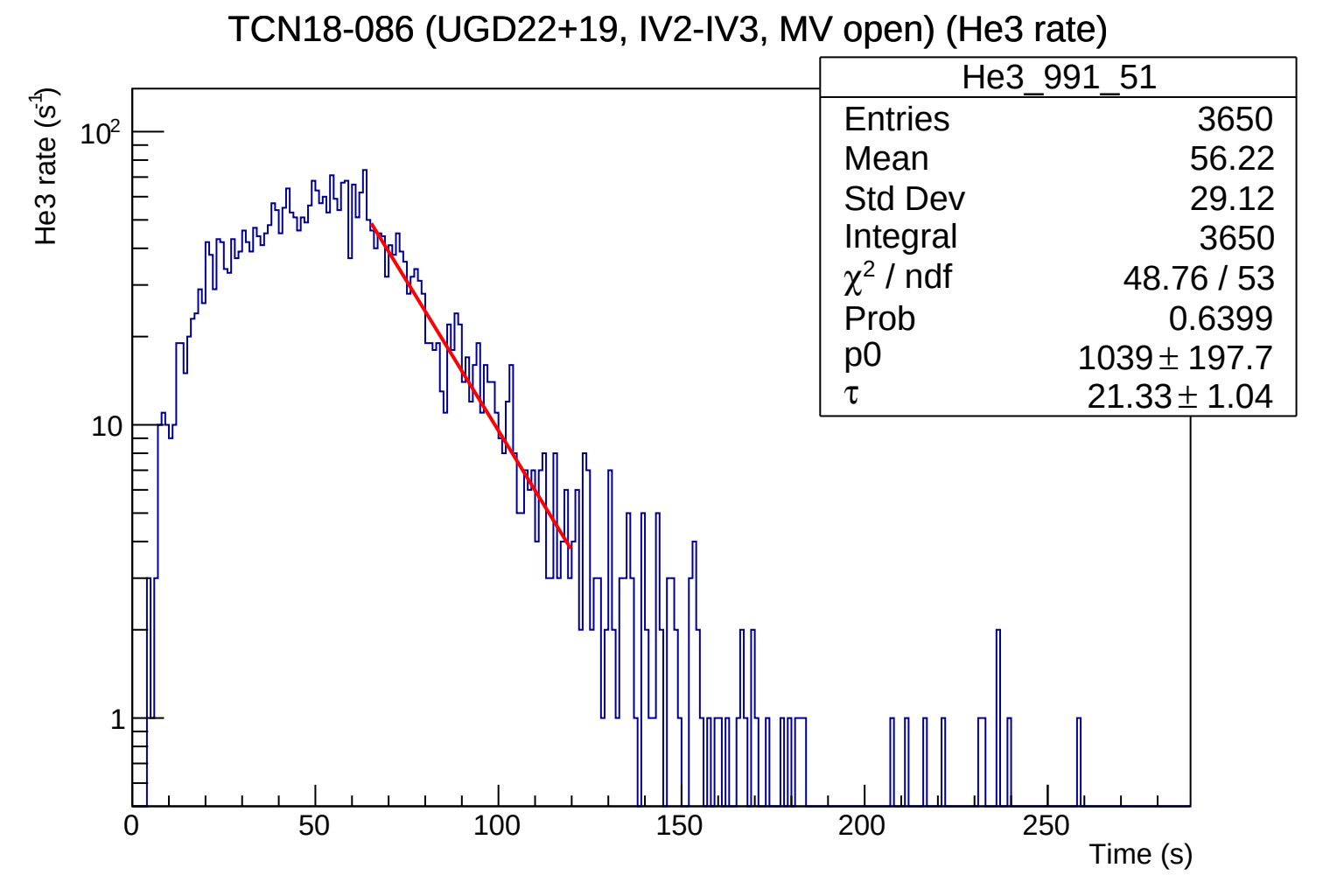

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_41
Entries 3648
Mean 57.13
Std Dev 29.18
Integral 3648
χ² / ndf 70.93 / 88
Prob 0.9082
p0 1013 ± 152.9
τ 21.72 ± 0.82
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

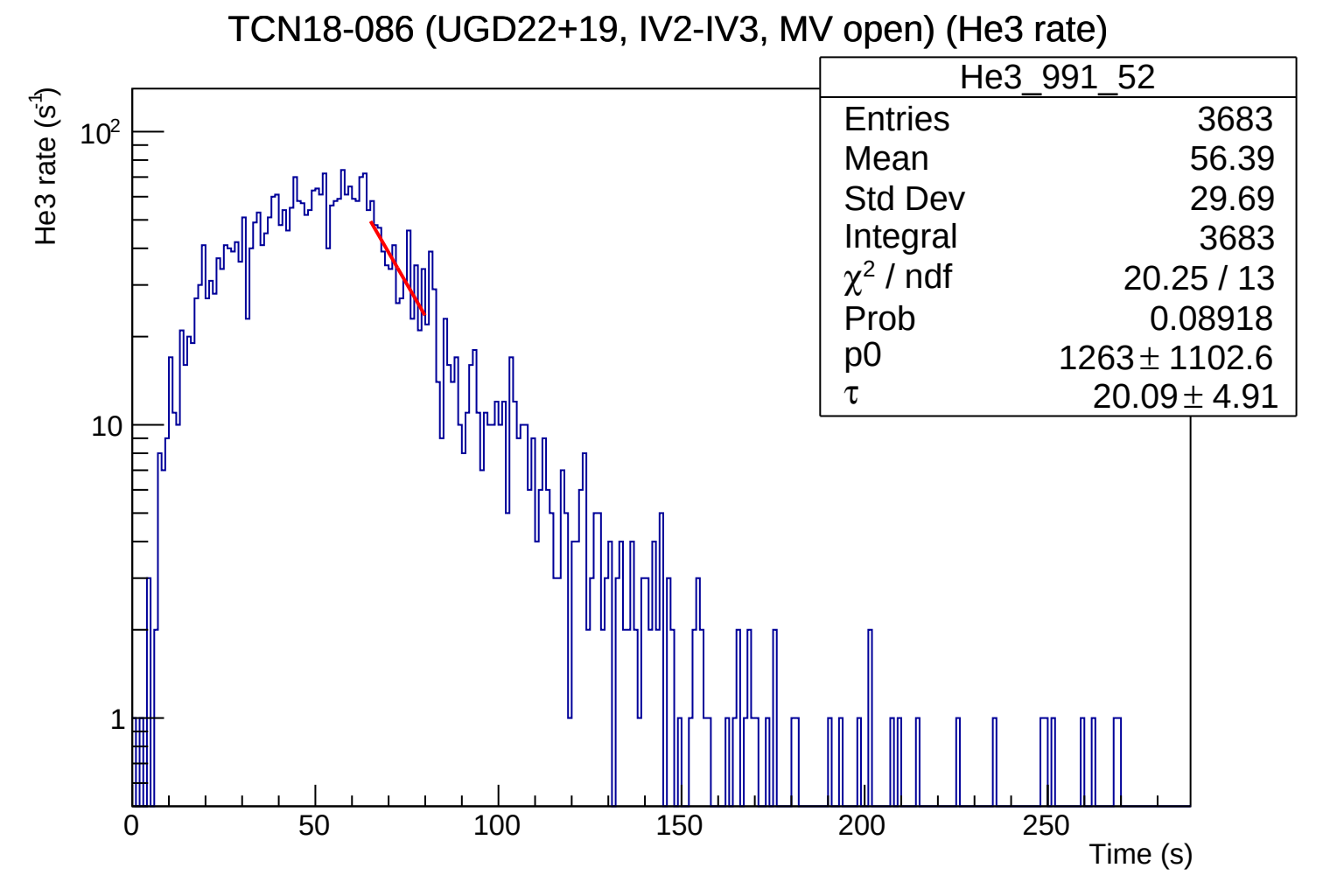

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_43
Entries 3636
Mean 55.94
Std Dev 28.47
Integral 3636
χ² / ndf 46.82 / 53
Prob 0.7122
p0 967.4 ± 188.9
τ 21.79 ± 1.11
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

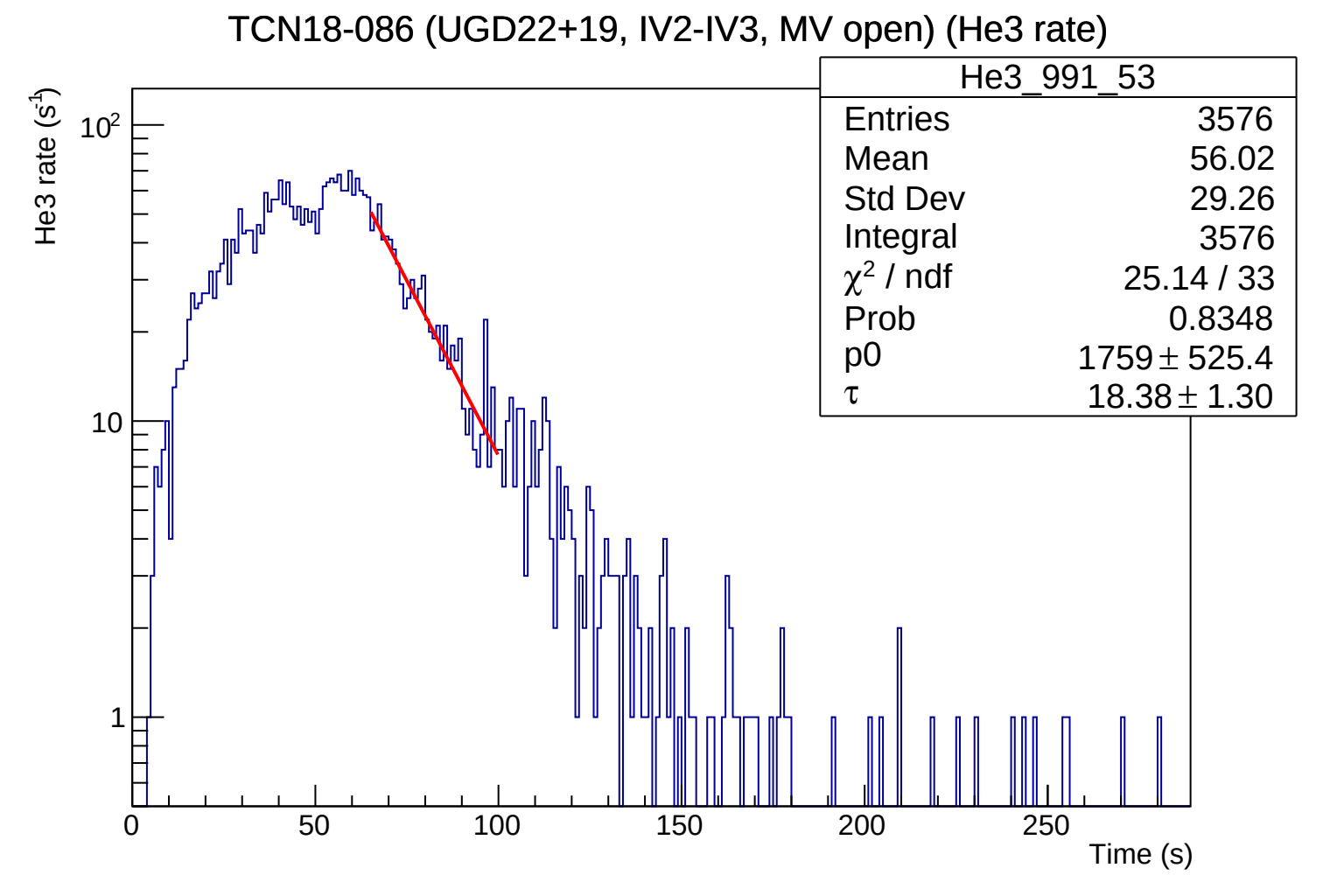

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_44
Entries 3652
Mean 55.31
Std Dev 28.62
Integral 3652
χ² / ndf 9.662 / 13
Prob 0.7213
p0 879.2 ± 722.9
τ 22.25 ± 5.67
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

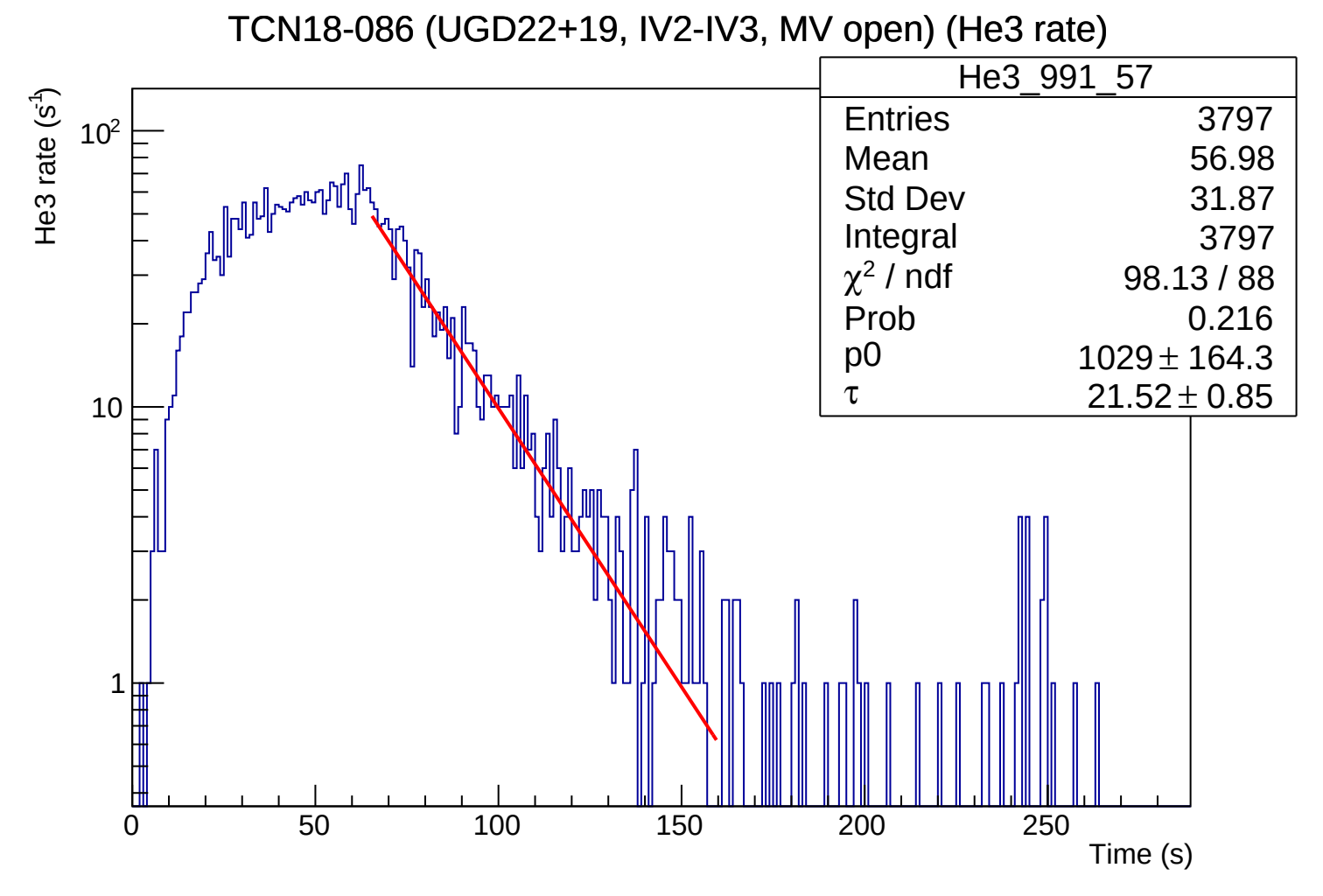

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_45
Entries 3804
Mean 55.96
Std Dev 28.39
Integral 3804
χ² / ndf 33.62 / 33
Prob 0.4374
p0 1290 ± 371.9
τ 20.29 ± 1.52
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

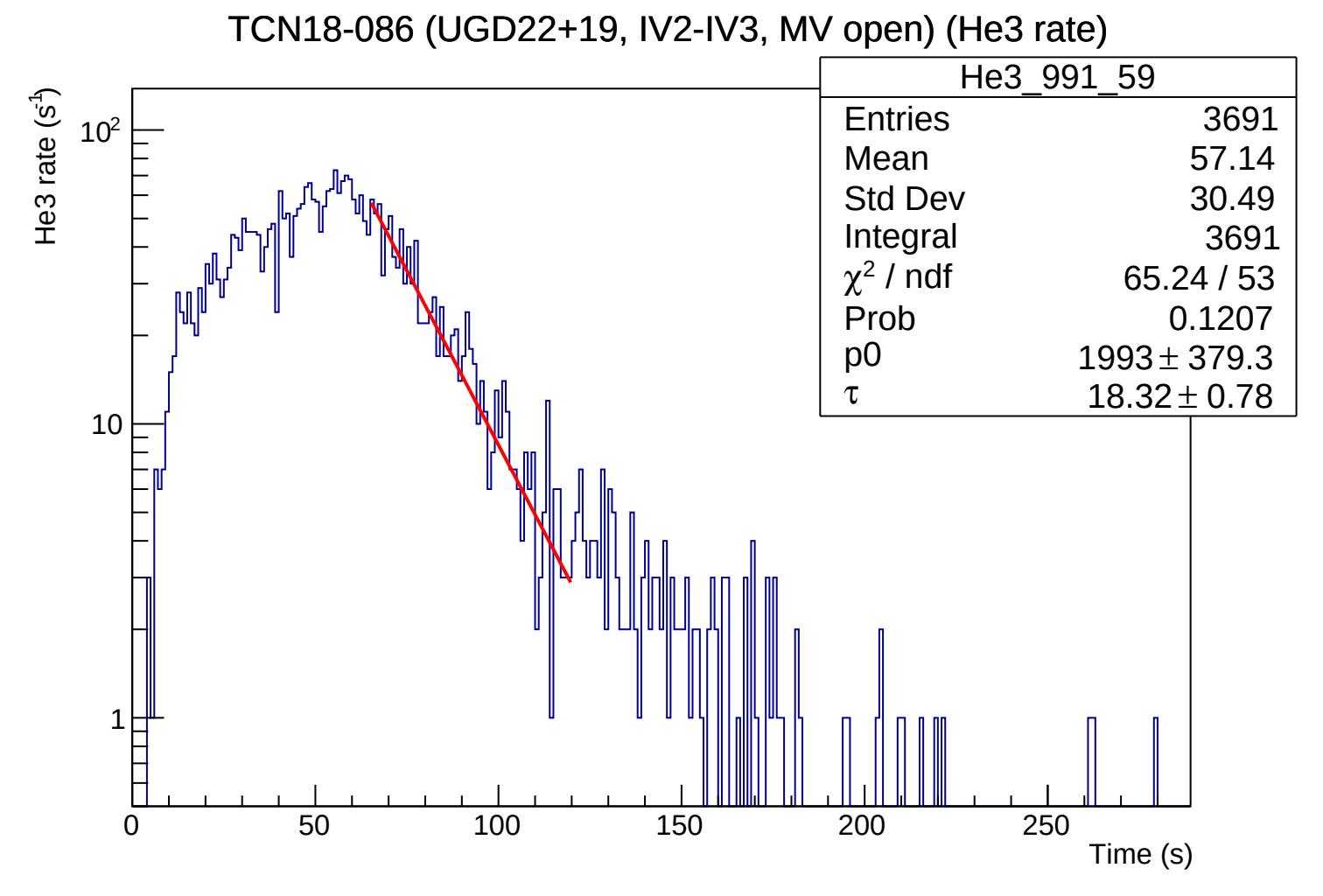

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_49
Entries 3599
Mean 56.72
Std Dev 30.1
Integral 3599
χ² / ndf 90.44 / 89
Prob 0.4376
p0 969.1± 153.2
τ 21.69 ± 0.85
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

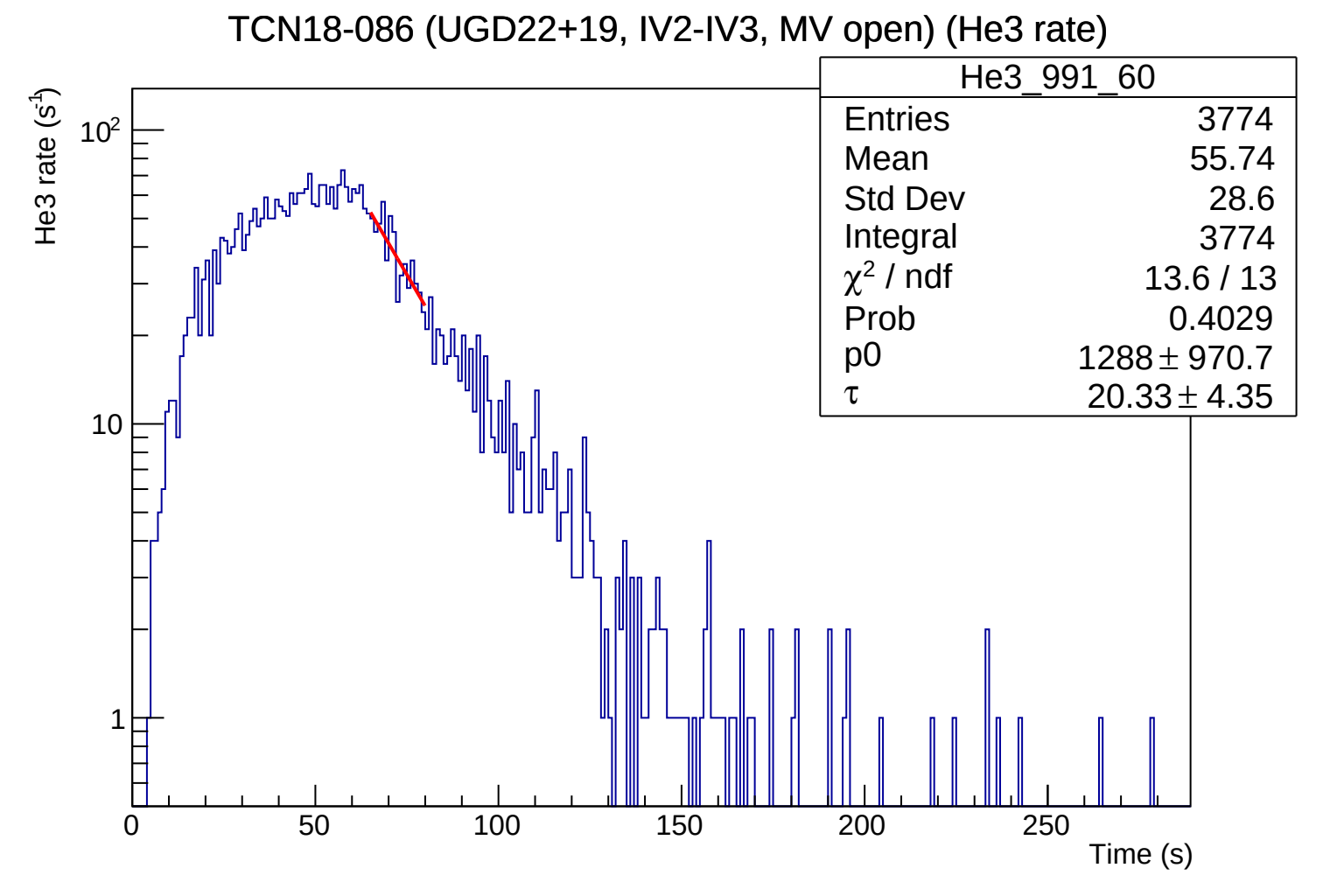

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_51
Entries 3650
Mean 56.22
Std Dev 29.12
Integral 3650
χ² / ndf 48.76 / 53
Prob 0.6399
p0 1039 ± 197.7
τ 21.33 ± 1.04
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

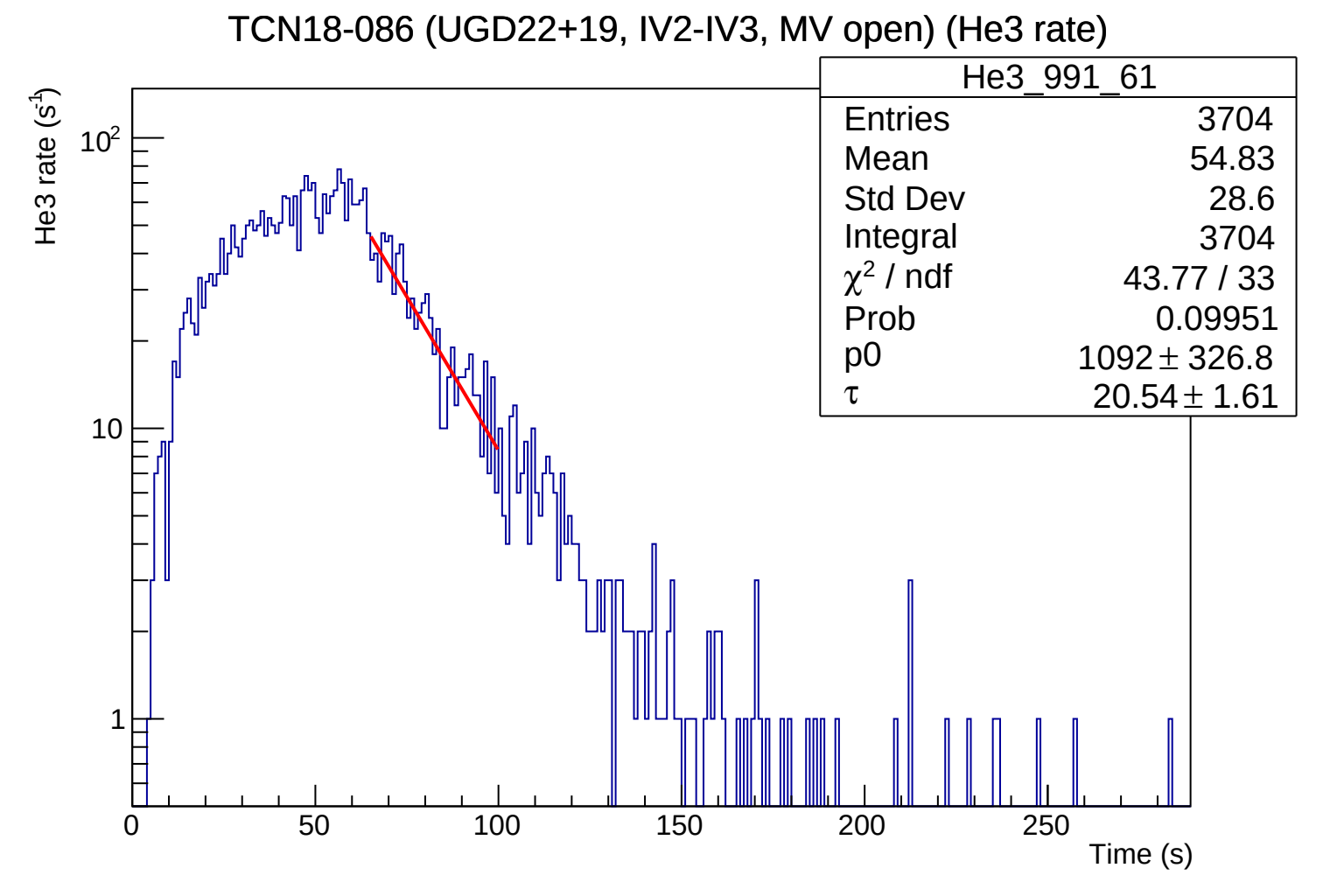

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_52
Entries 3683
Mean 56.39
Std Dev 29.69
Integral 3683
χ² / ndf 20.25 / 13
Prob 0.08918
p0 1263 ± 1102.6
τ 20.09 ± 4.91
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

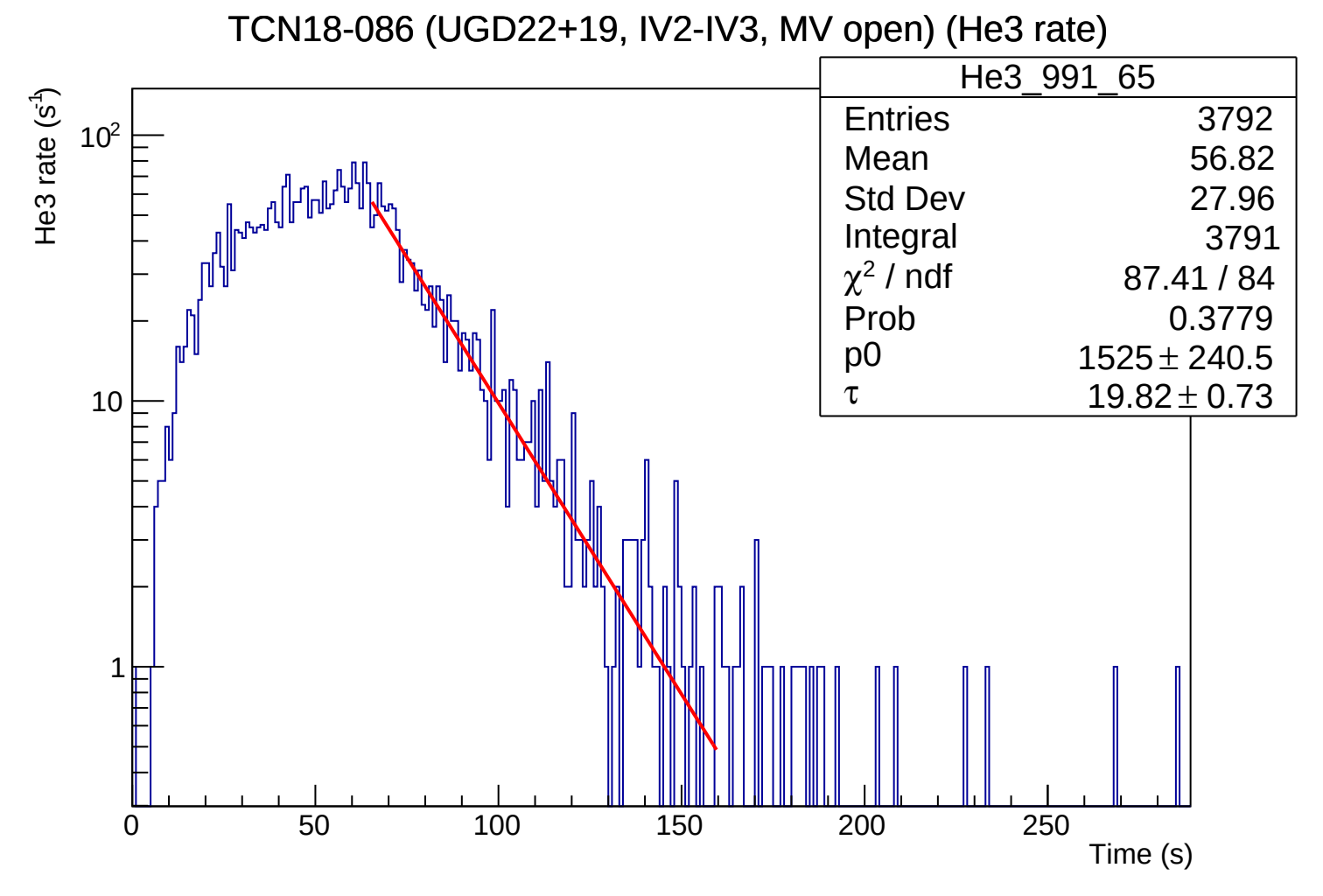

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_53
Entries 3576
Mean 56.02
Std Dev 29.26
Integral 3576
χ² / ndf 25.14 / 33
Prob 0.8348
p0 1759 ± 525.4
τ 18.38 ± 1.30
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

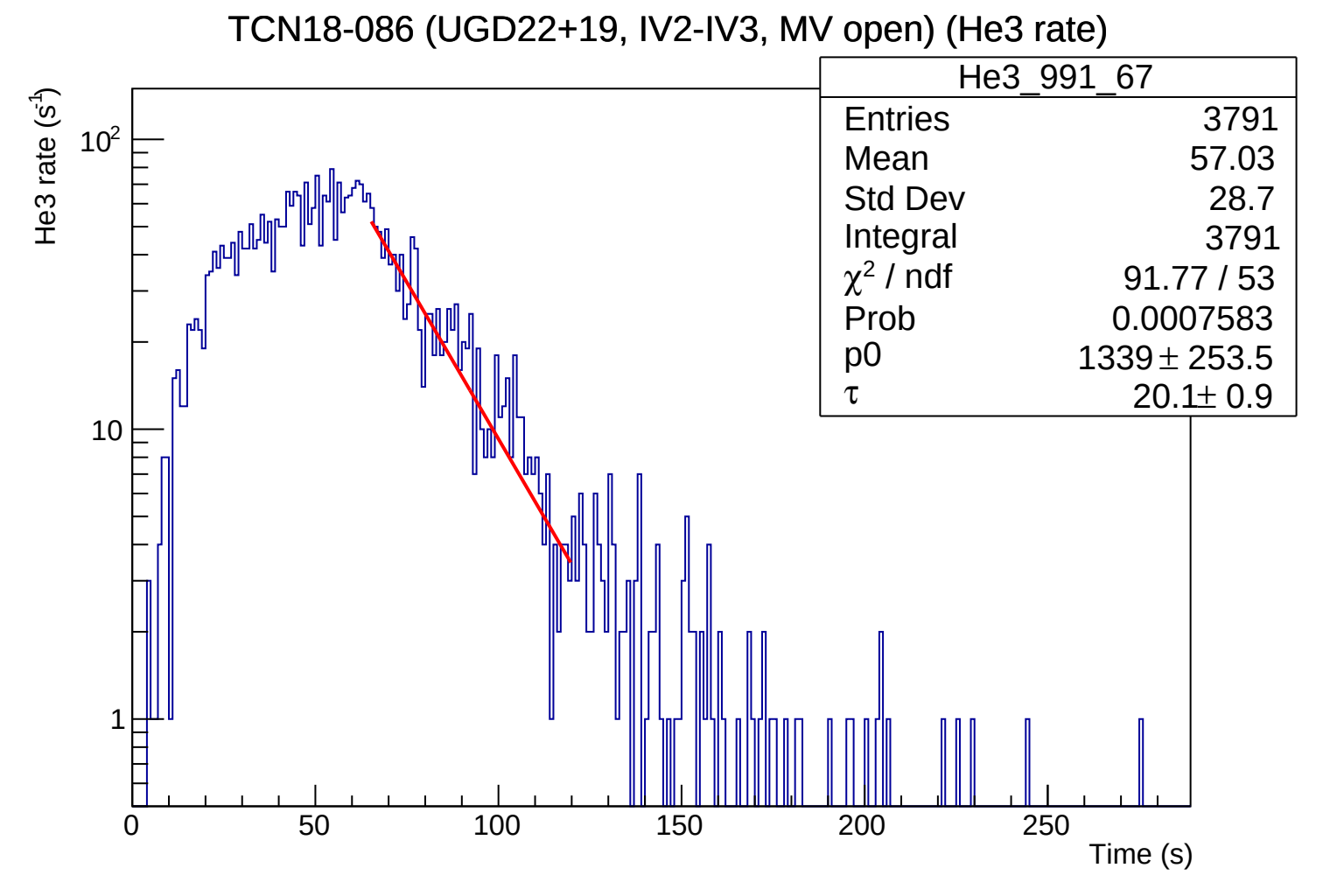

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_57
Entries 3797
Mean 56.98
Std Dev 31.87
Integral 3797
χ² / ndf 98.13 / 88
Prob 0.216
p0 1029 ± 164.3
τ 21.52 ± 0.85
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

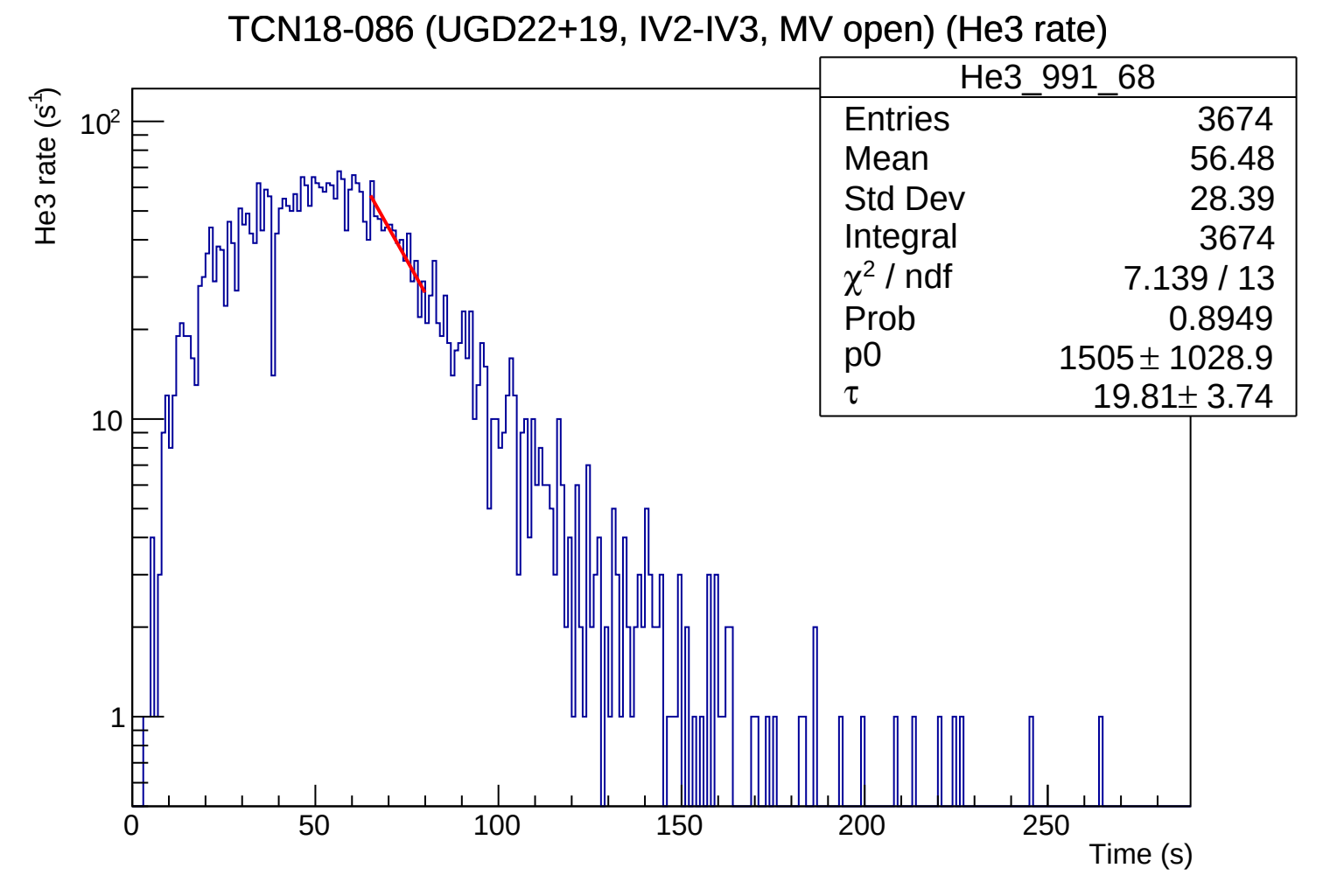

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_59
Entries 3691
Mean 57.14
Std Dev 30.49
Integral 3691
χ² / ndf 65.24 / 53
Prob 0.1207
p0 1993 ± 379.3
τ 18.32 ± 0.78
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

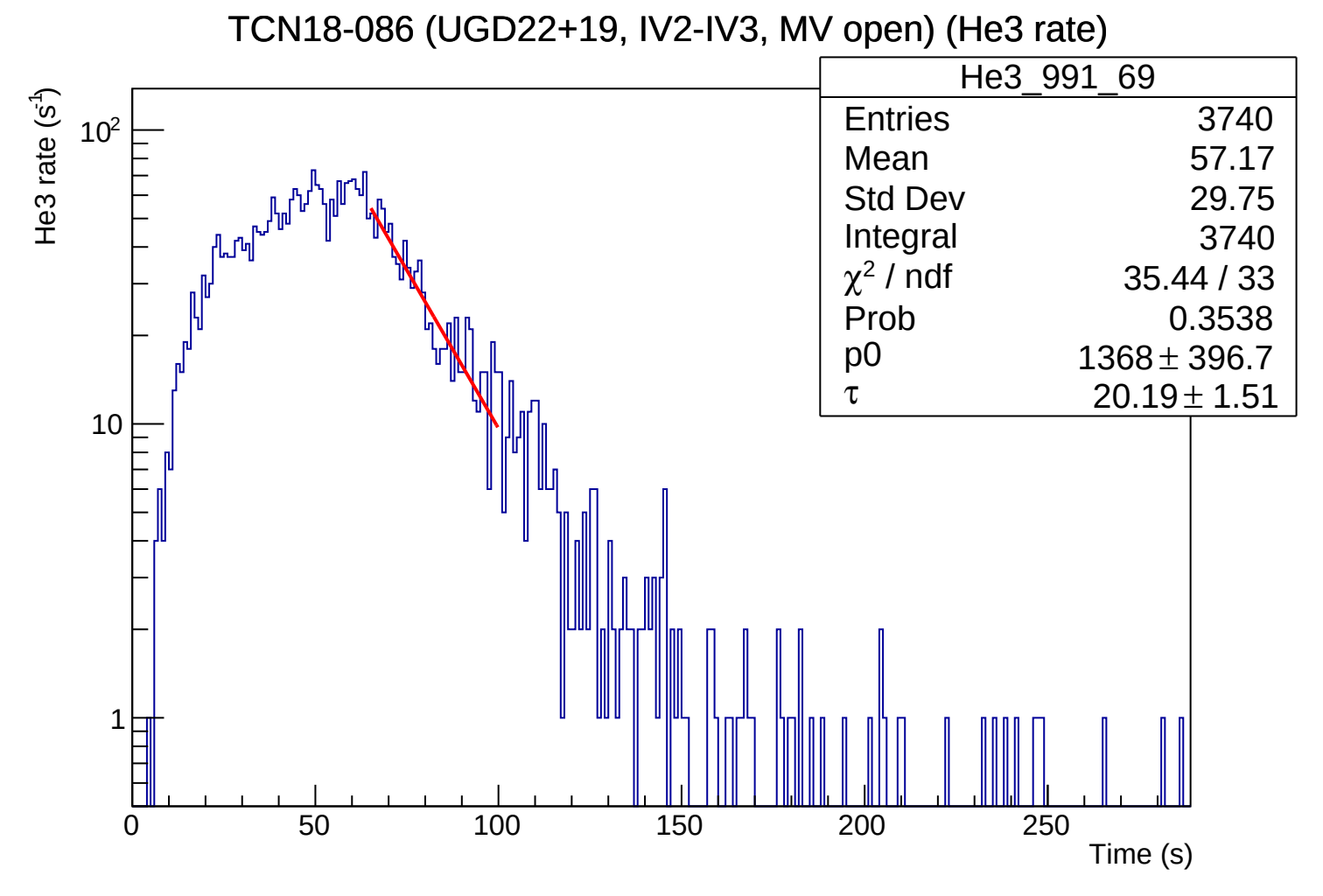

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_60
Entries 3774
Mean 55.74
Std Dev 28.6
Integral 3774
χ² / ndf 13.6 / 13
Prob 0.4029
p0 1288 ± 970.7
τ 20.33 ± 4.35
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

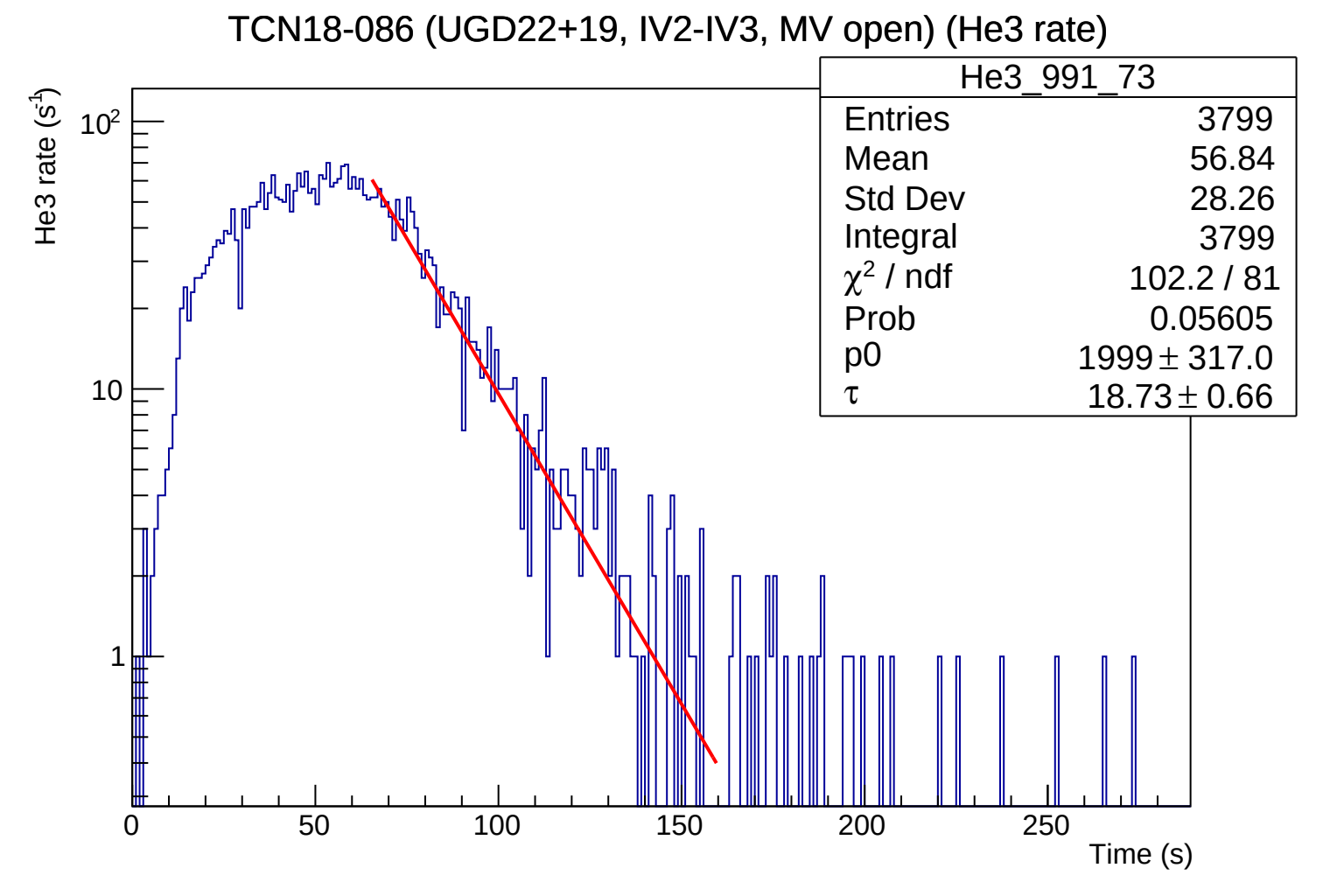

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_61
Entries 3704
Mean 54.83
Std Dev 28.6
Integral 3704
χ² / ndf 43.77 / 33
Prob 0.09951
p0 1092 ± 326.8
τ 20.54 ± 1.61
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

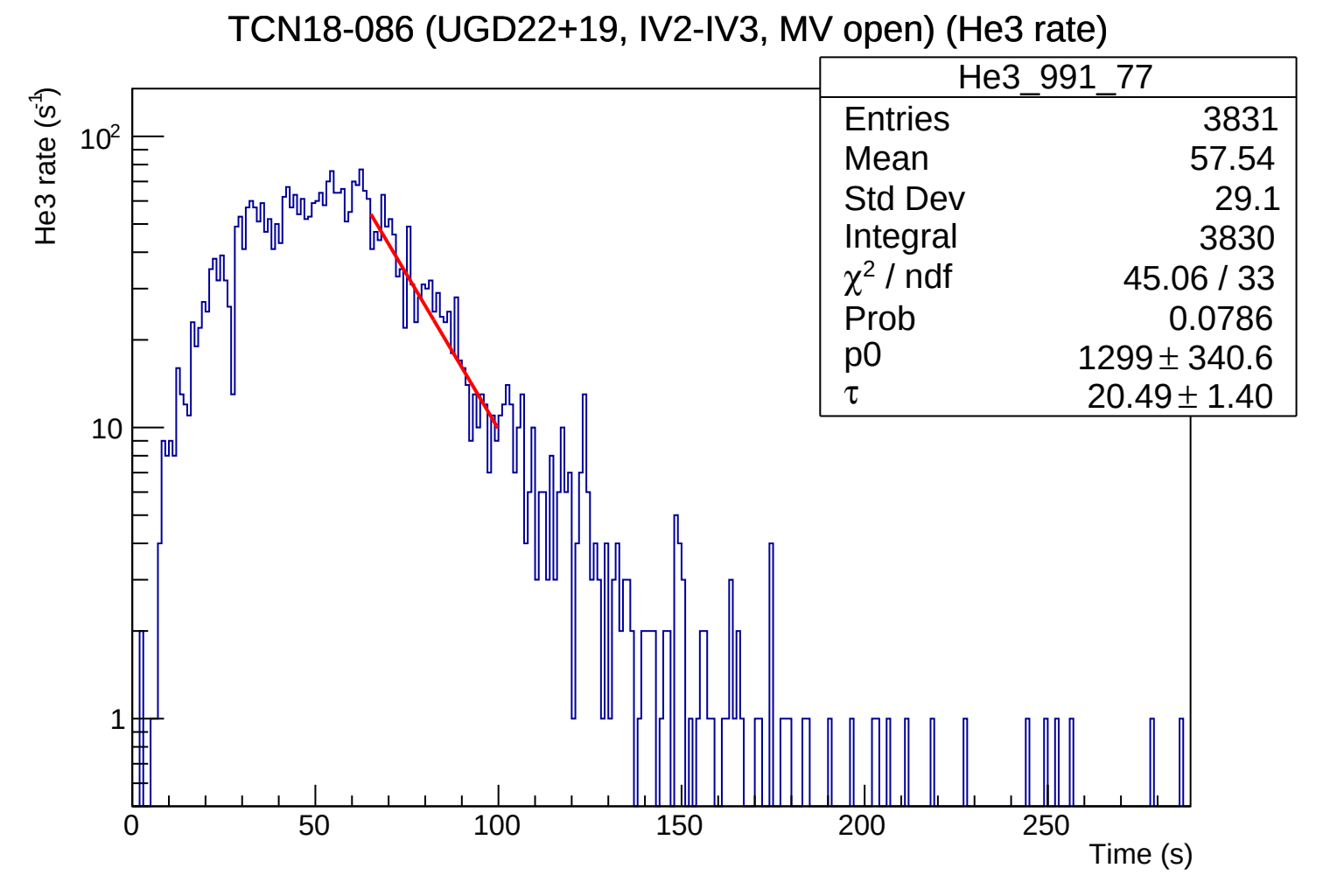

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_65
Entries 3792
Mean 56.82
Std Dev 27.96
Integral 3791
χ² / ndf 87.41 / 84
Prob 0.3779
p0 1525 ± 240.5
τ 19.82 ± 0.73
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

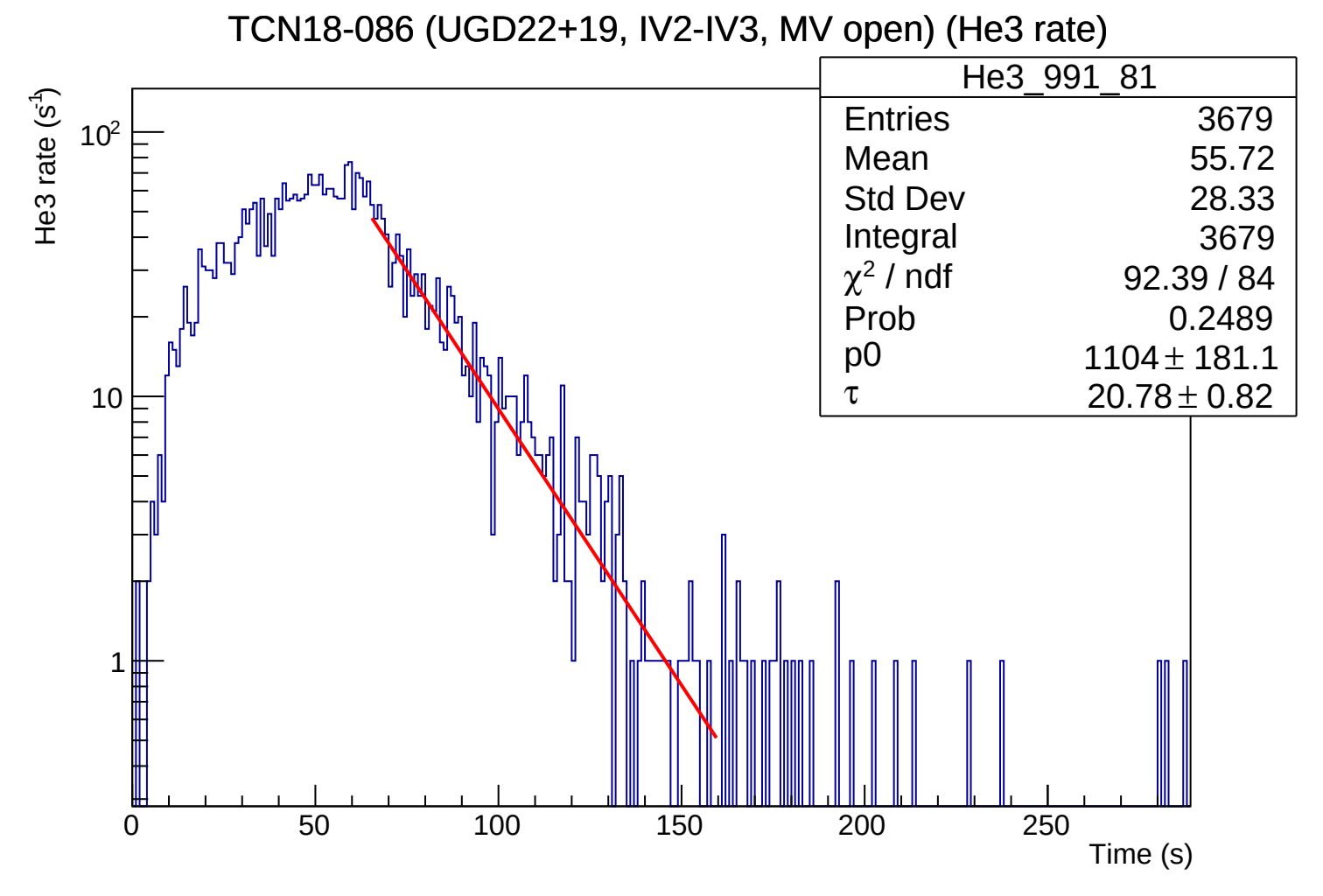

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_67
Entries 3791
Mean 57.03
Std Dev 28.7
Integral 3791
χ² / ndf 91.77 / 53
Prob 0.0007583
p0 1339 ± 253.5
τ 20.1 ± 0.9
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

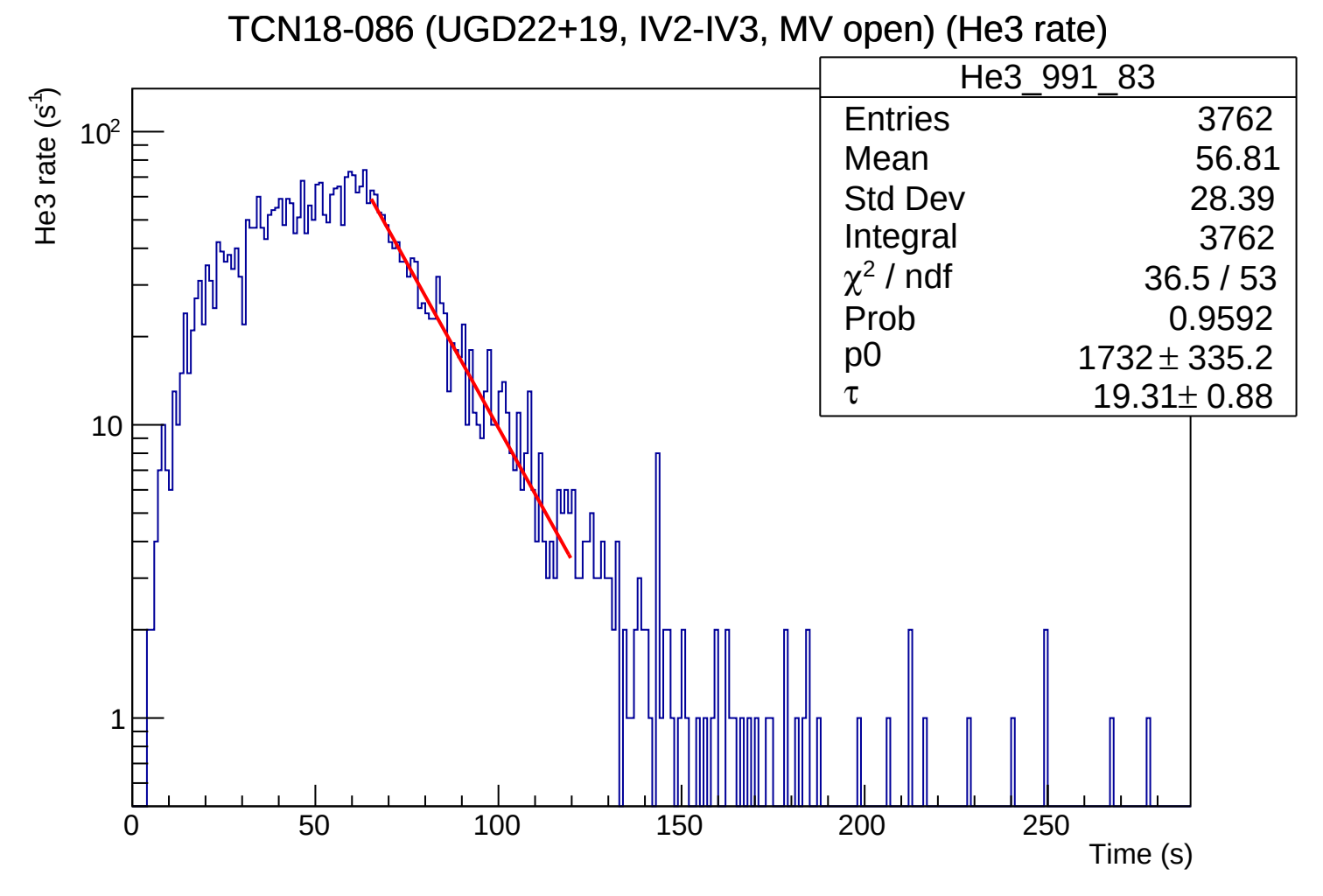

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_68
Entries 3674
Mean 56.48
Std Dev 28.39
Integral 3674
χ² / ndf 7.139 / 13
Prob 0.8949
p0 1505 ± 1028.9
τ 19.81 ± 3.74
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

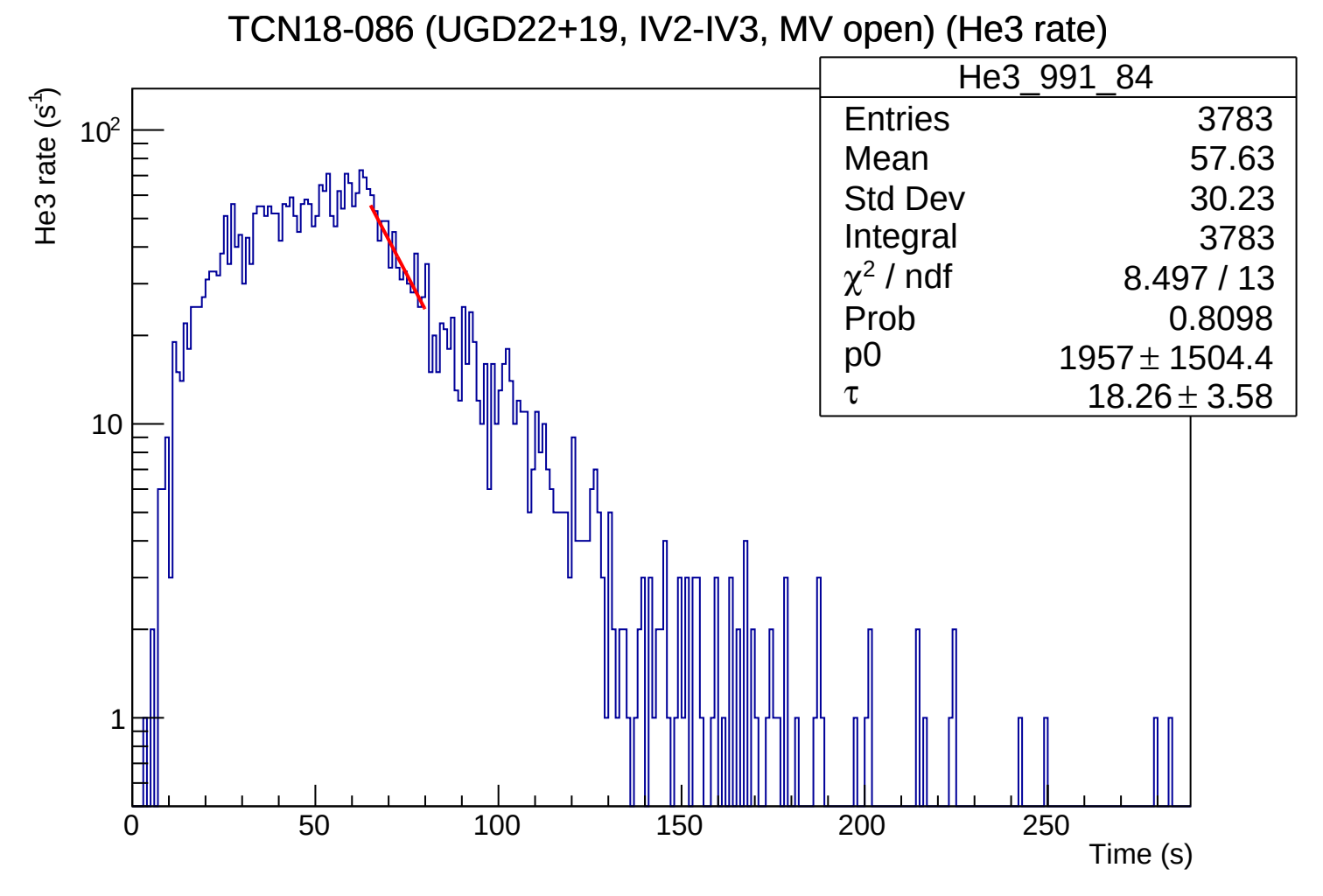

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_69
Entries 3740
Mean 57.17
Std Dev 29.75
Integral 3740
χ² / ndf 35.44 / 33
Prob 0.3538
p0 1368 ± 396.7
τ 20.19 ± 1.51
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

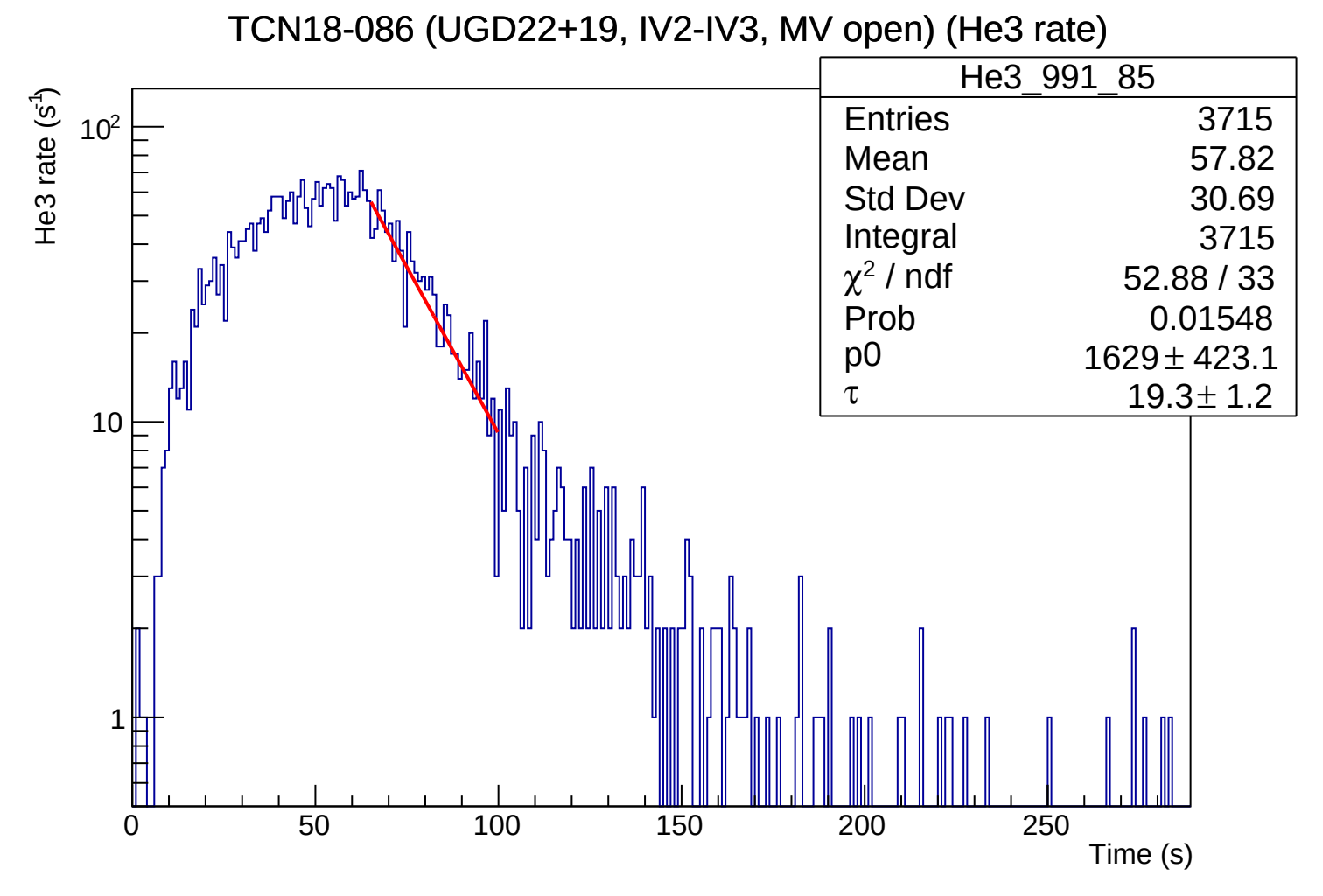

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_73
Entries 3799
Mean 56.84
Std Dev 28.26
Integral 3799
χ² / ndf 102.2 / 81
Prob 0.05605
p0 1999 ± 317.0
τ 18.73 ± 0.66
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

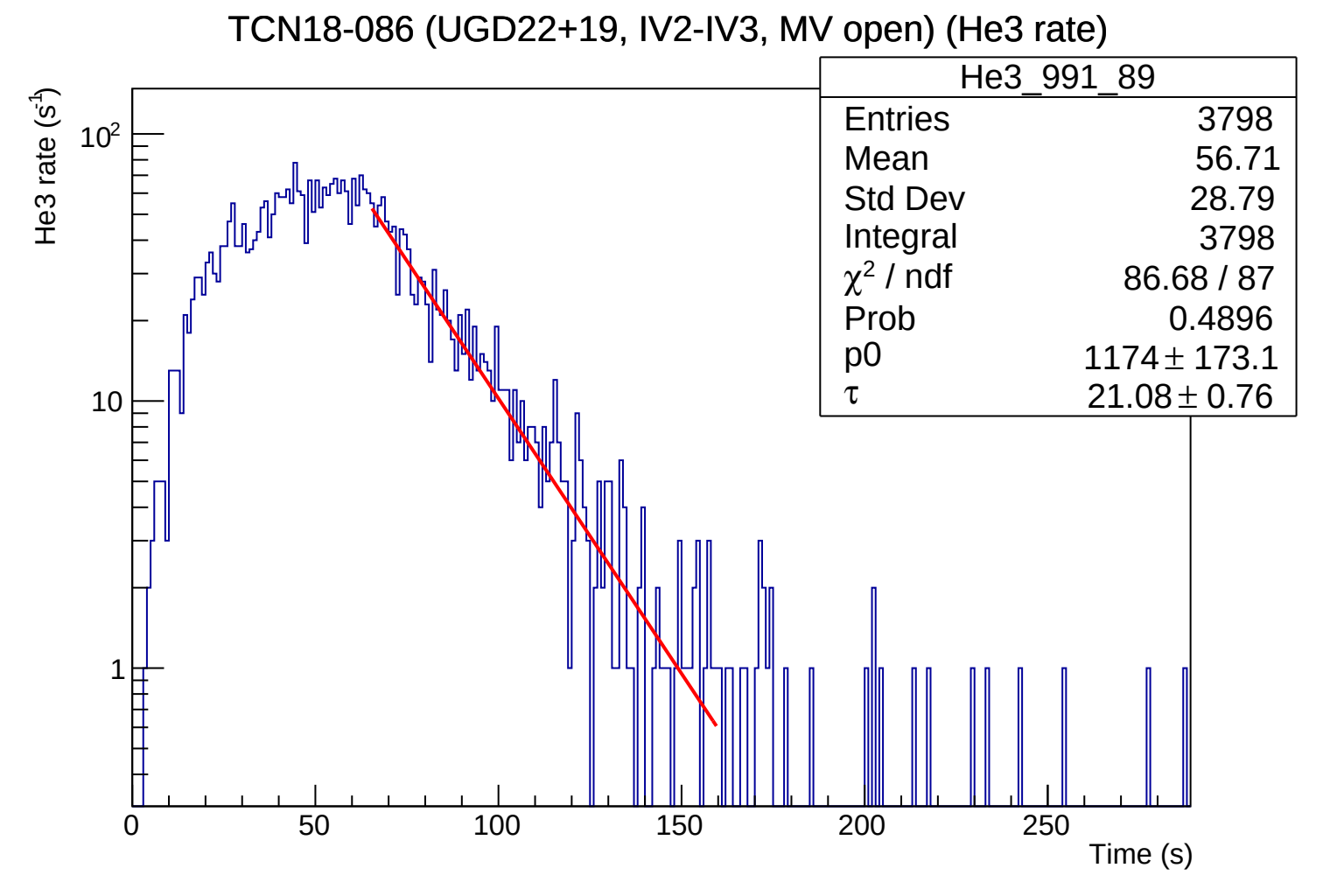

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_77
Entries 3831
Mean 57.54
Std Dev 29.1
Integral 3830
χ² / ndf 45.06 / 33
Prob 0.0786
p0 1299 ± 340.6
τ 20.49 ± 1.40
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

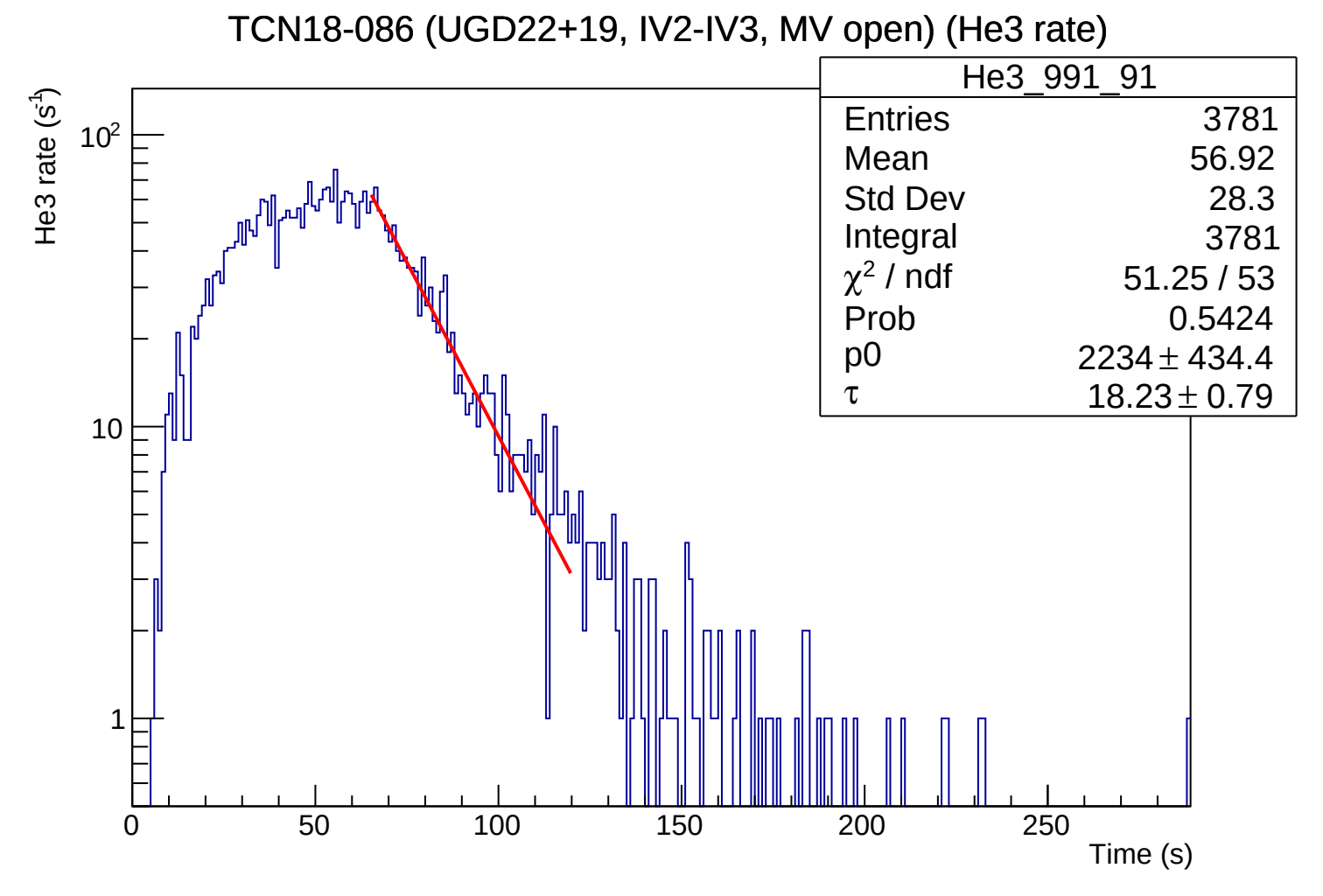

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_81
Entries 3679
Mean 55.72
Std Dev 28.33
Integral 3679
χ² / ndf 92.39 / 84
Prob 0.2489
p0 1104 ± 181.1
τ 20.78 ± 0.82
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

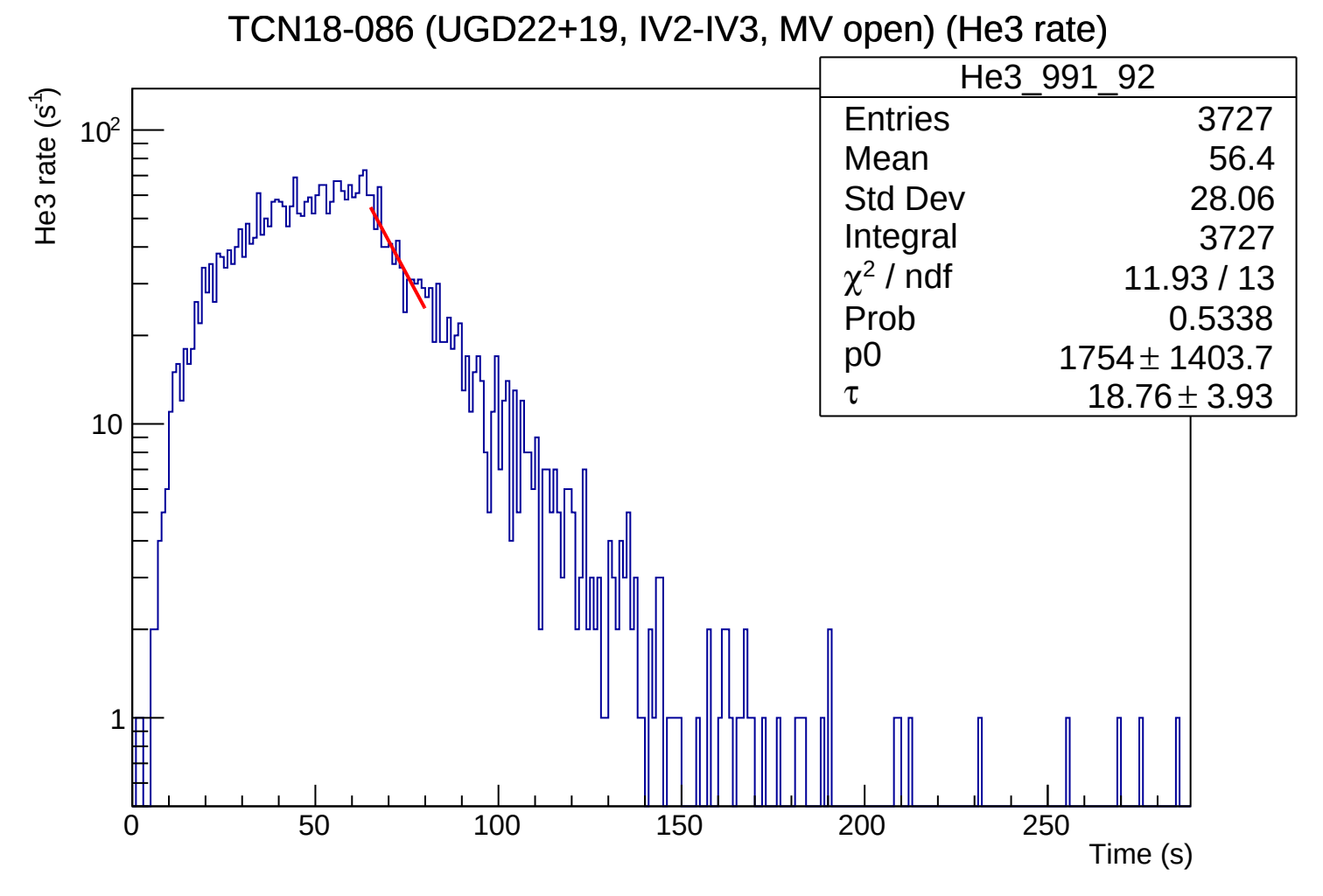

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_83
Entries 3762
Mean 56.81
Std Dev 28.39
Integral 3762
χ² / ndf 36.5 / 53
Prob 0.9592
p0 1732 ± 335.2
τ 19.31 ± 0.88
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

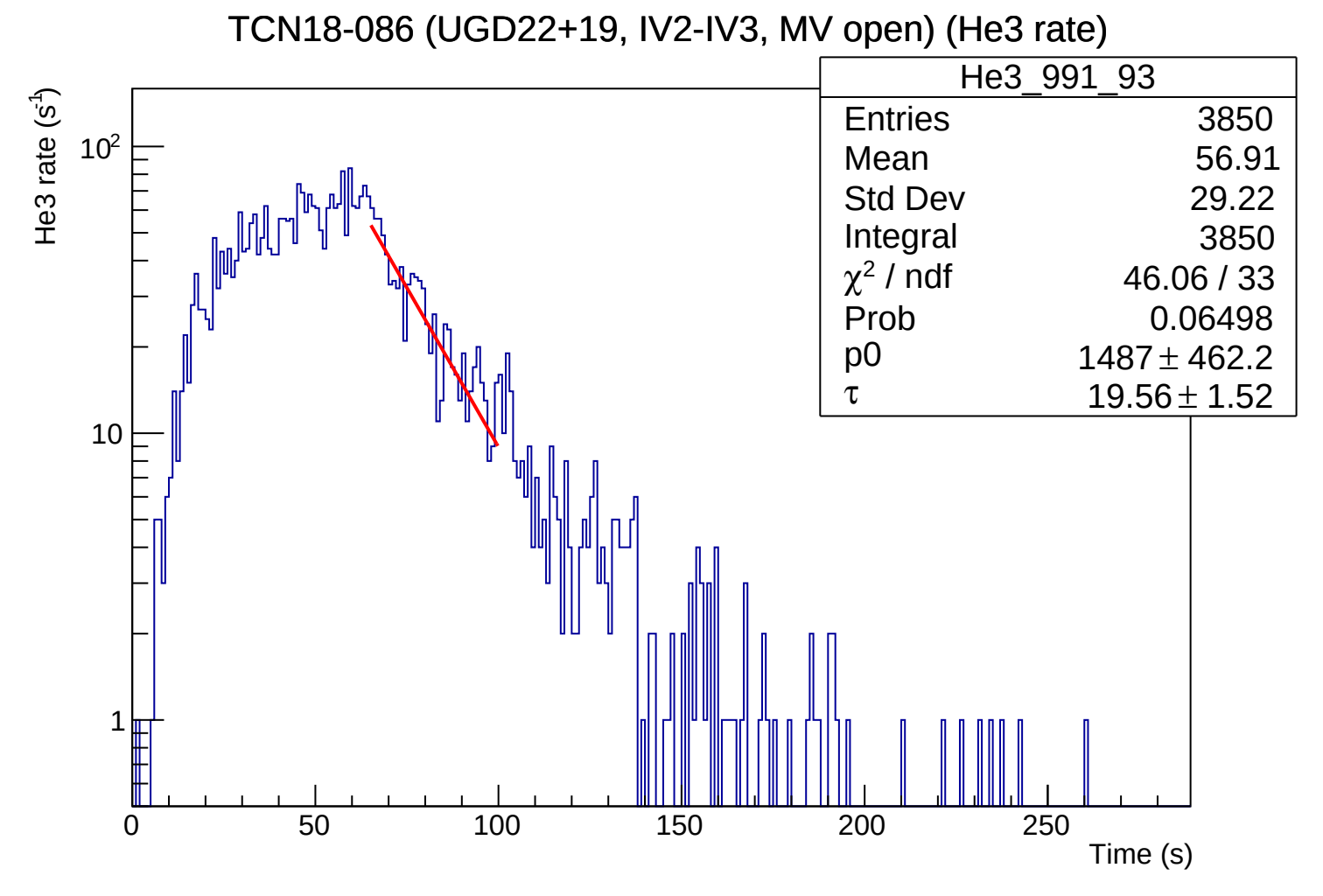

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_84
Entries 3783
Mean 57.63
Std Dev 30.23
Integral 3783
χ² / ndf 8.497 / 13
Prob 0.8098
p0 1957 ± 1504.4
τ 18.26 ± 3.58
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

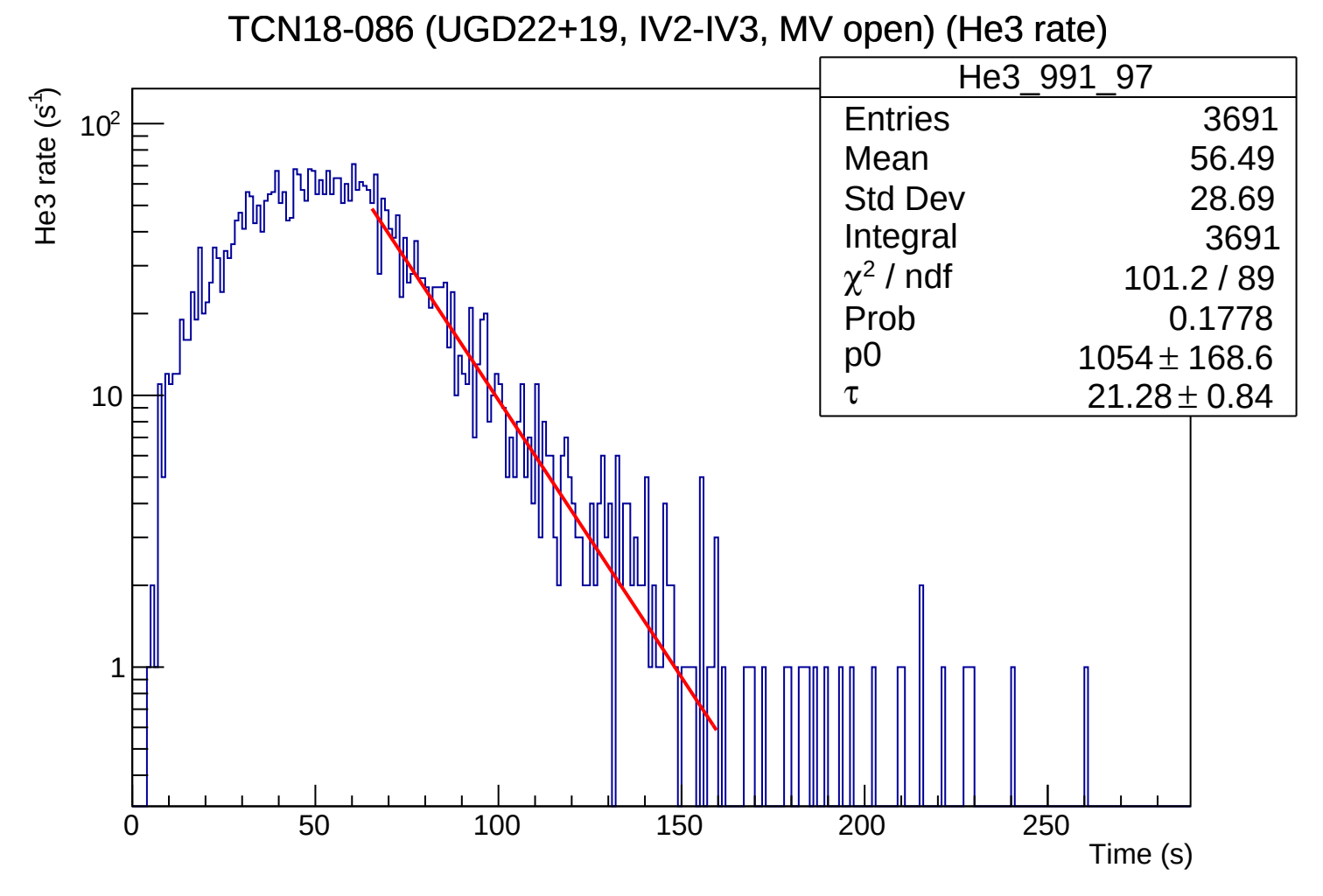

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_85
Entries 3715
Mean 57.82
Std Dev 30.69
Integral 3715
χ² / ndf 52.88 / 33
Prob 0.01548
p0 1629 ± 423.1
τ 19.3 ± 1.2
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

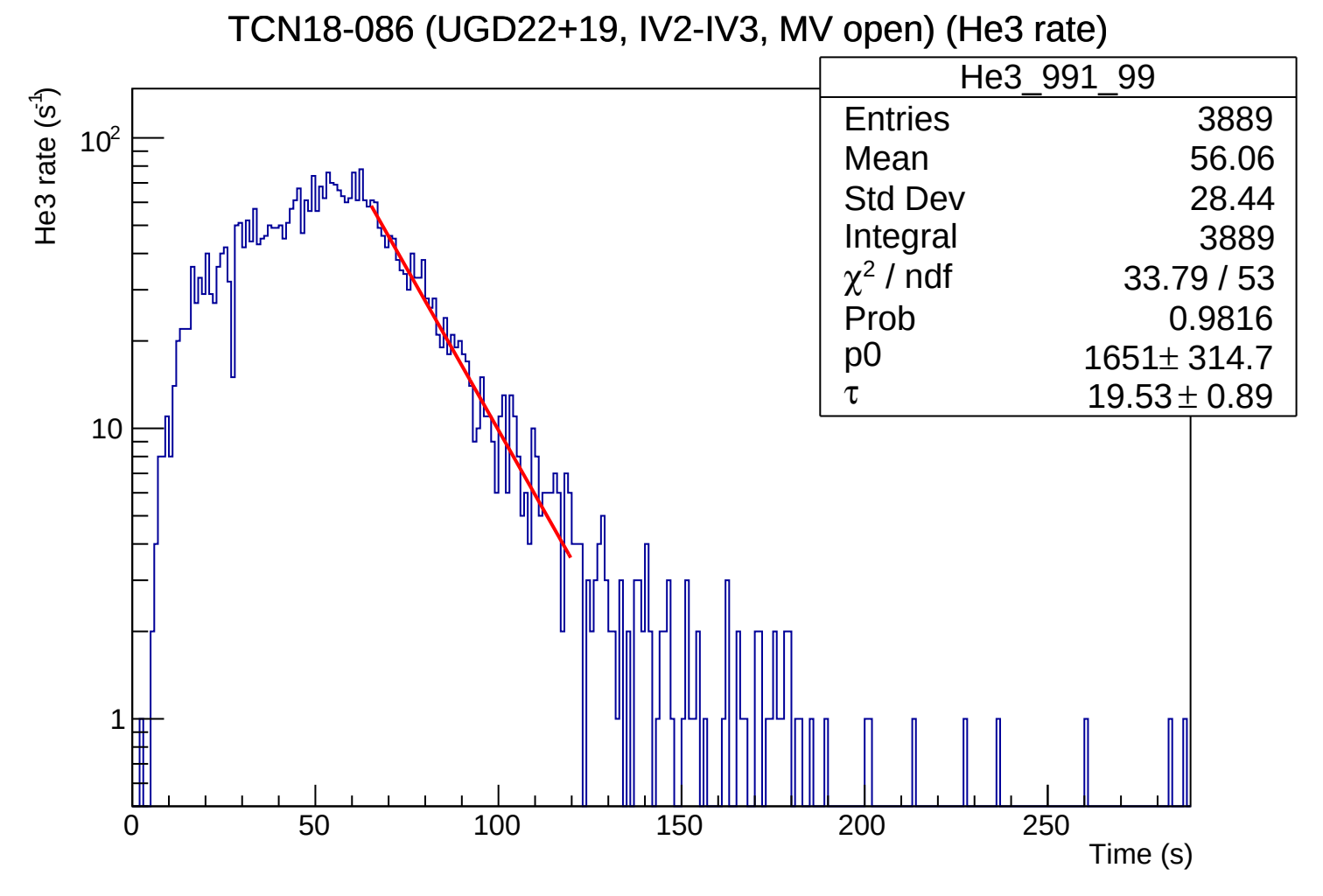

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_89
Entries 3798
Mean 56.71
Std Dev 28.79
Integral 3798
χ² / ndf 86.68 / 87
Prob 0.4896
p0 1174 ± 173.1
τ 21.08 ± 0.76
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

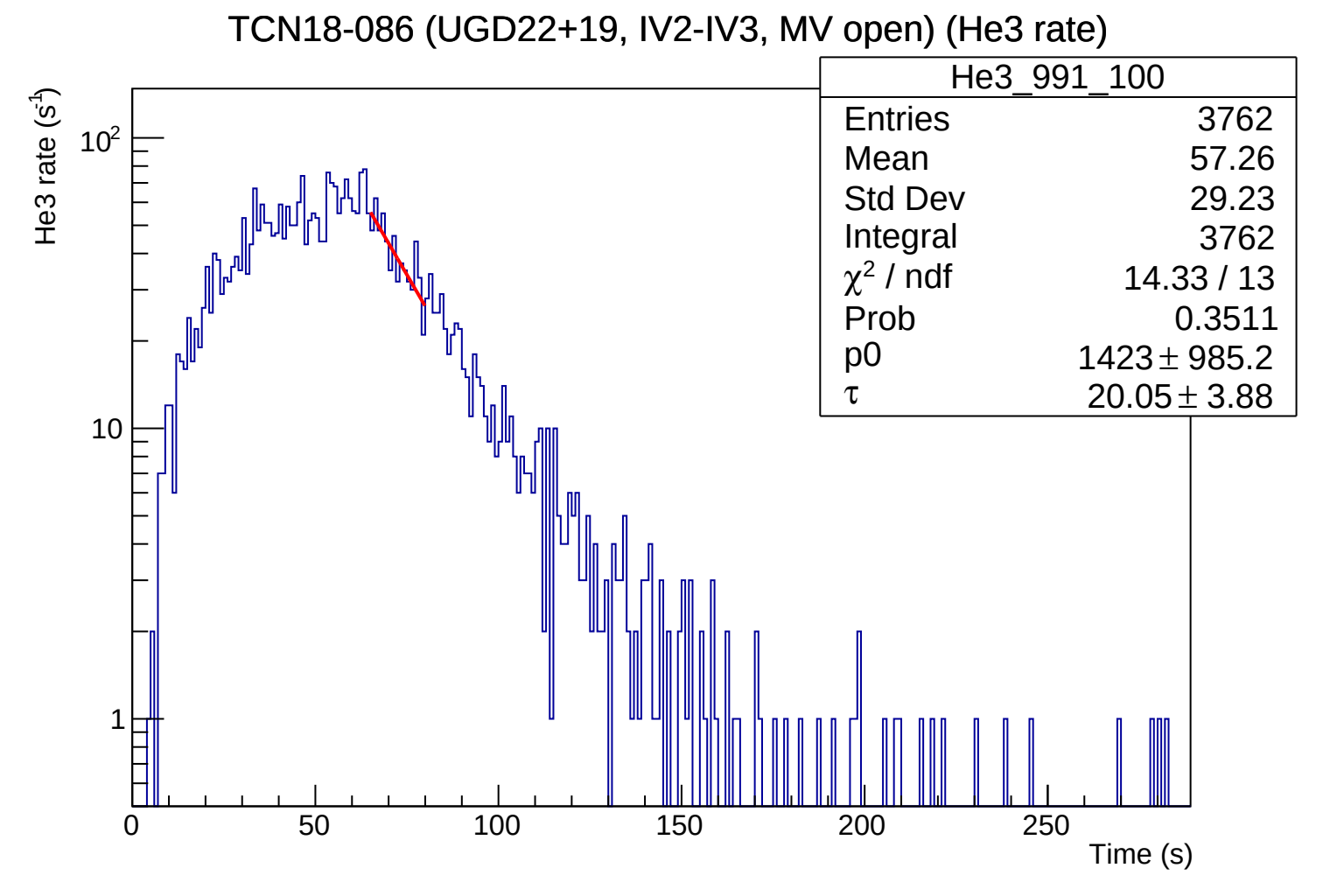

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_91
Entries 3781
Mean 56.92
Std Dev 28.3
Integral 3781
χ² / ndf 51.25 / 53
Prob 0.5424
p0 2234 ± 434.4
τ 18.23 ± 0.79
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

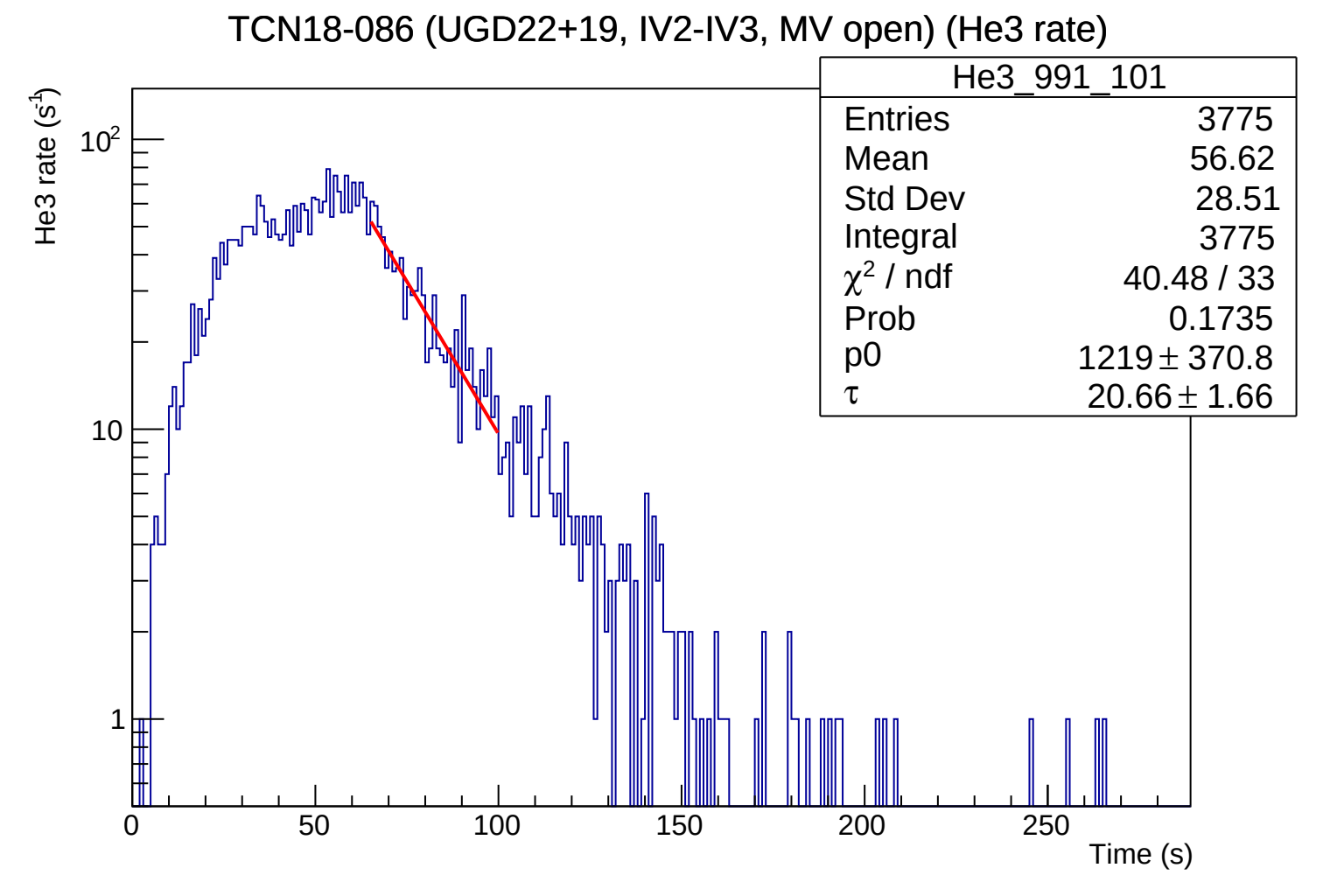

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_92
Entries 3727
Mean 56.4
Std Dev 28.06
Integral 3727
χ² / ndf 11.93 / 13
Prob 0.5338
p0 1754 ± 1403.7
τ 18.76 ± 3.93
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

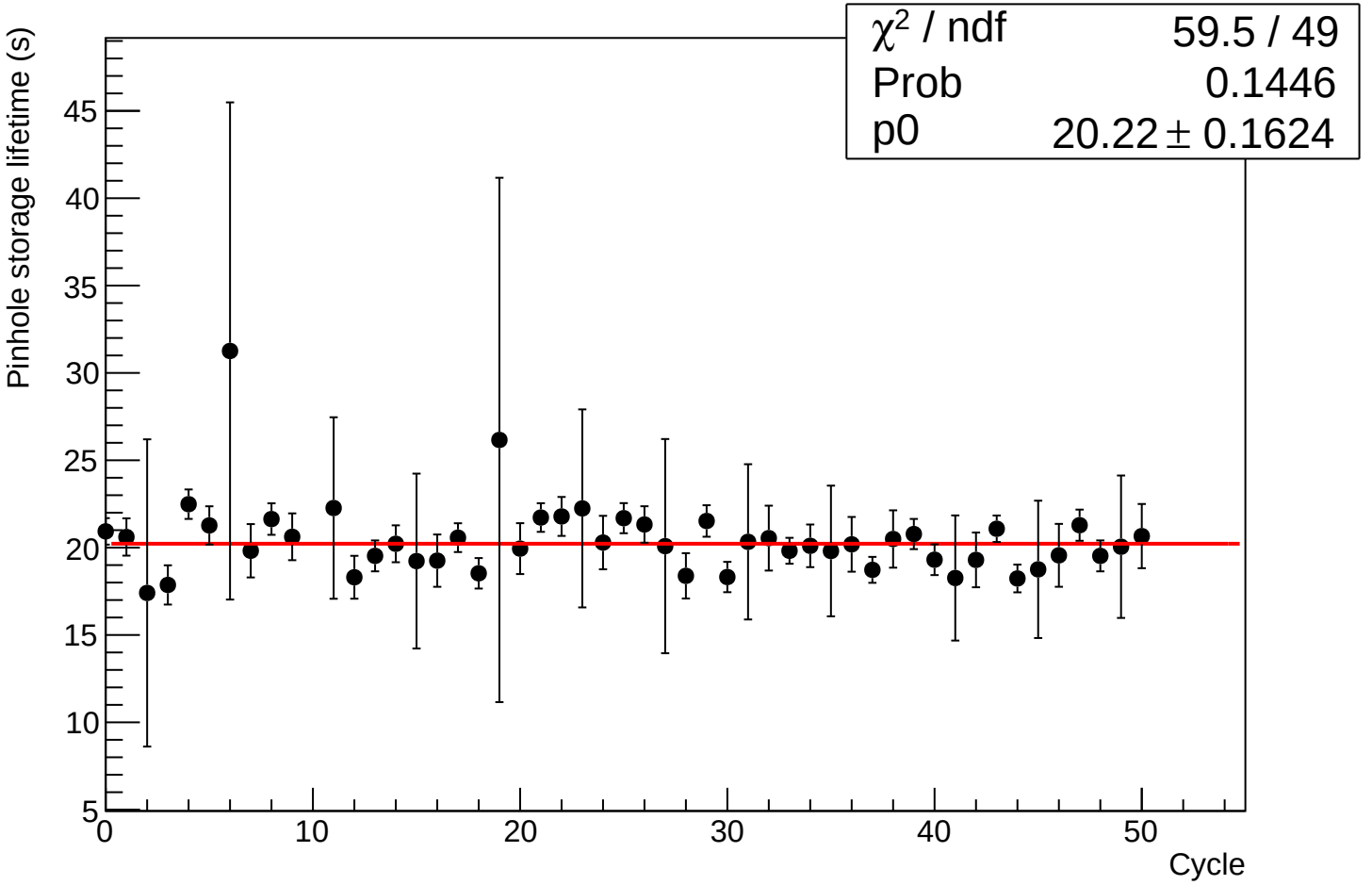

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_93
Entries 3850
Mean 56.91
Std Dev 29.22
Integral 3850
χ² / ndf 46.06 / 33
Prob 0.06498
p0 1487 ± 462.2
τ 19.56 ± 1.52
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

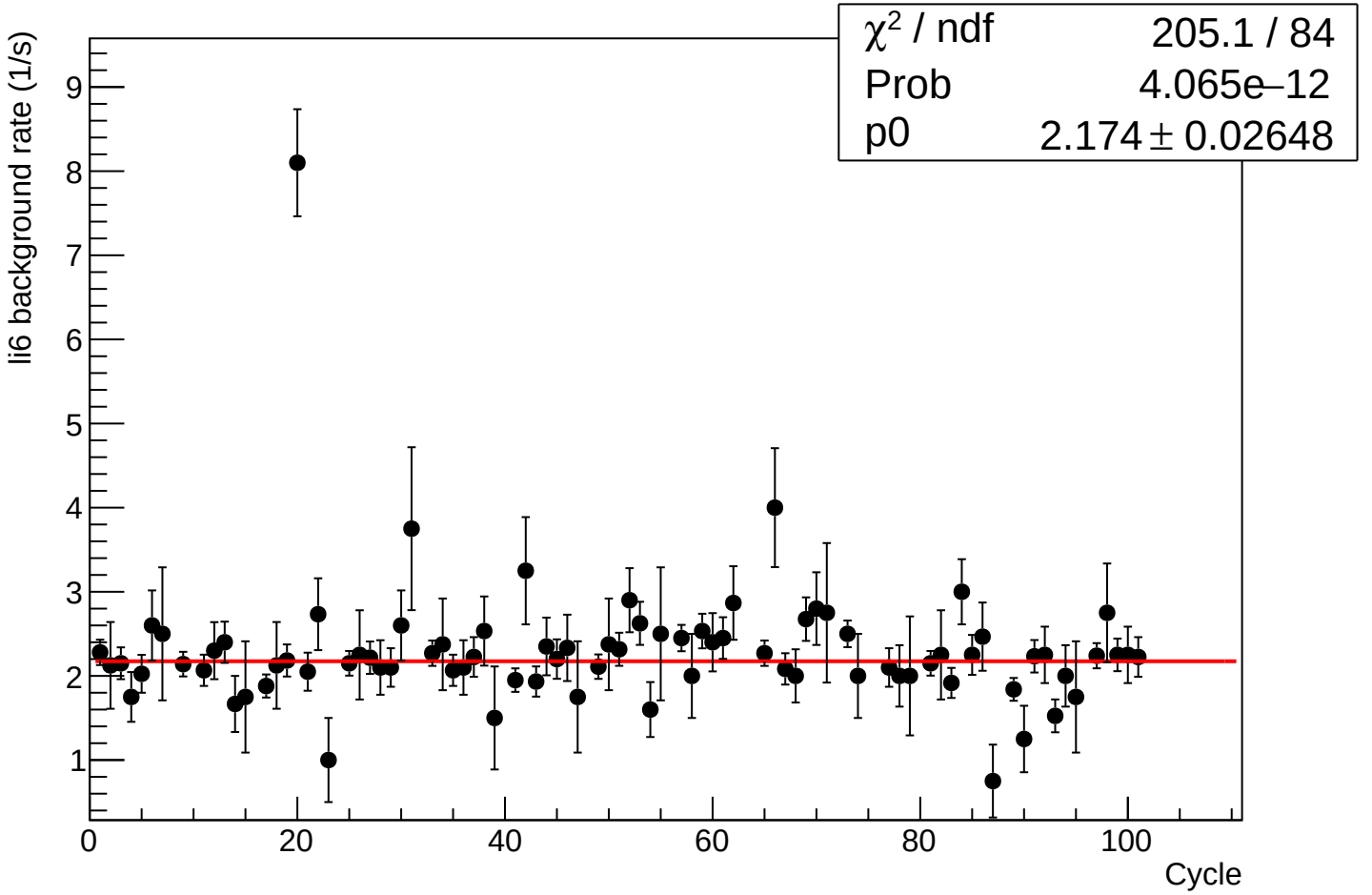

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_97
Entries 3691
Mean 56.49
Std Dev 28.69
Integral 3691
χ² / ndf 101.2 / 89
Prob 0.1778
p0 1054 ± 168.6
τ 21.28 ± 0.84
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

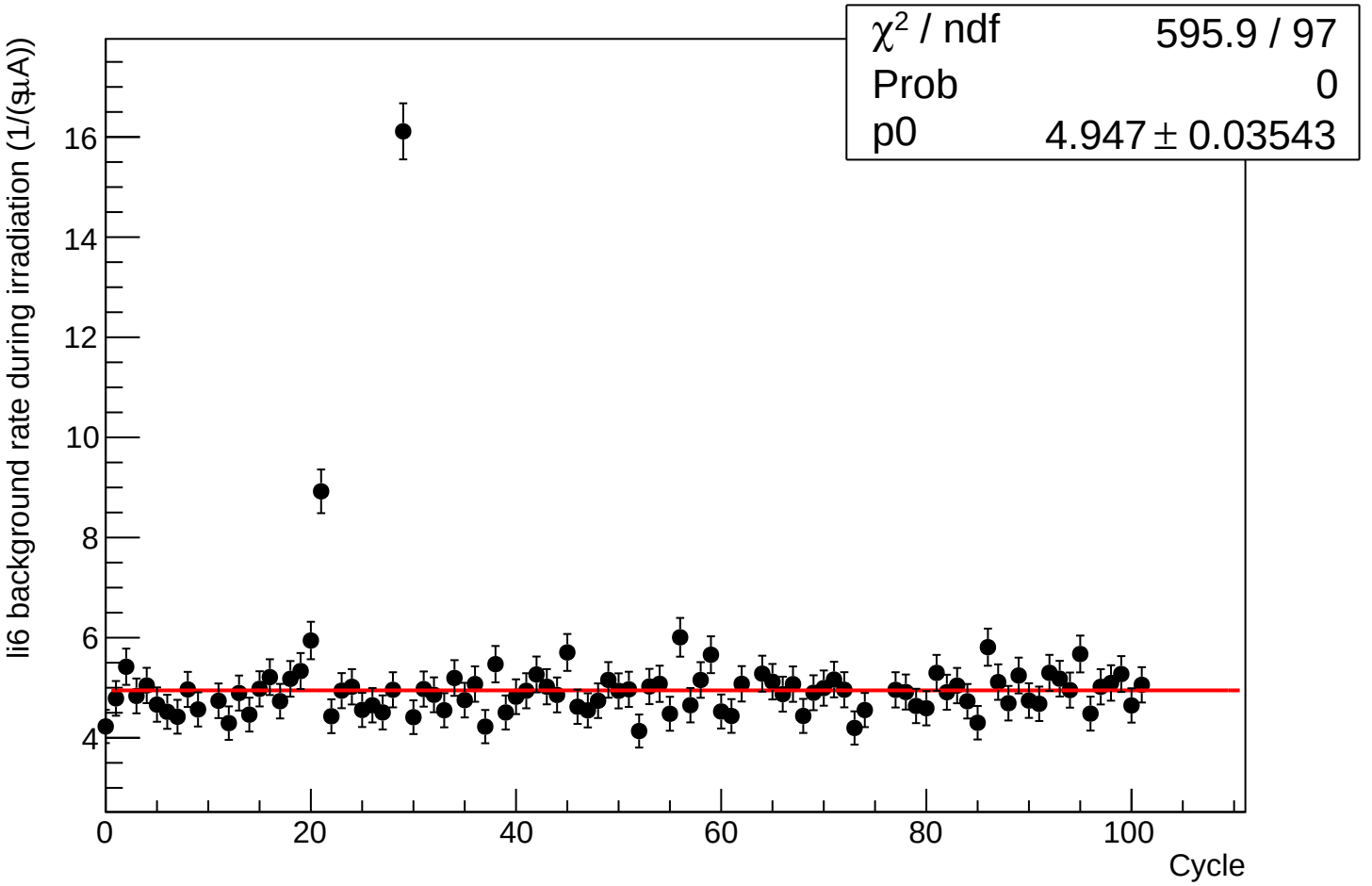

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_99
Entries 3889
Mean 56.06
Std Dev 28.44
Integral 3889
χ² / ndf 33.79 / 53
Prob 0.9816
p0 1651± 314.7
τ 19.53 ± 0.89
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)

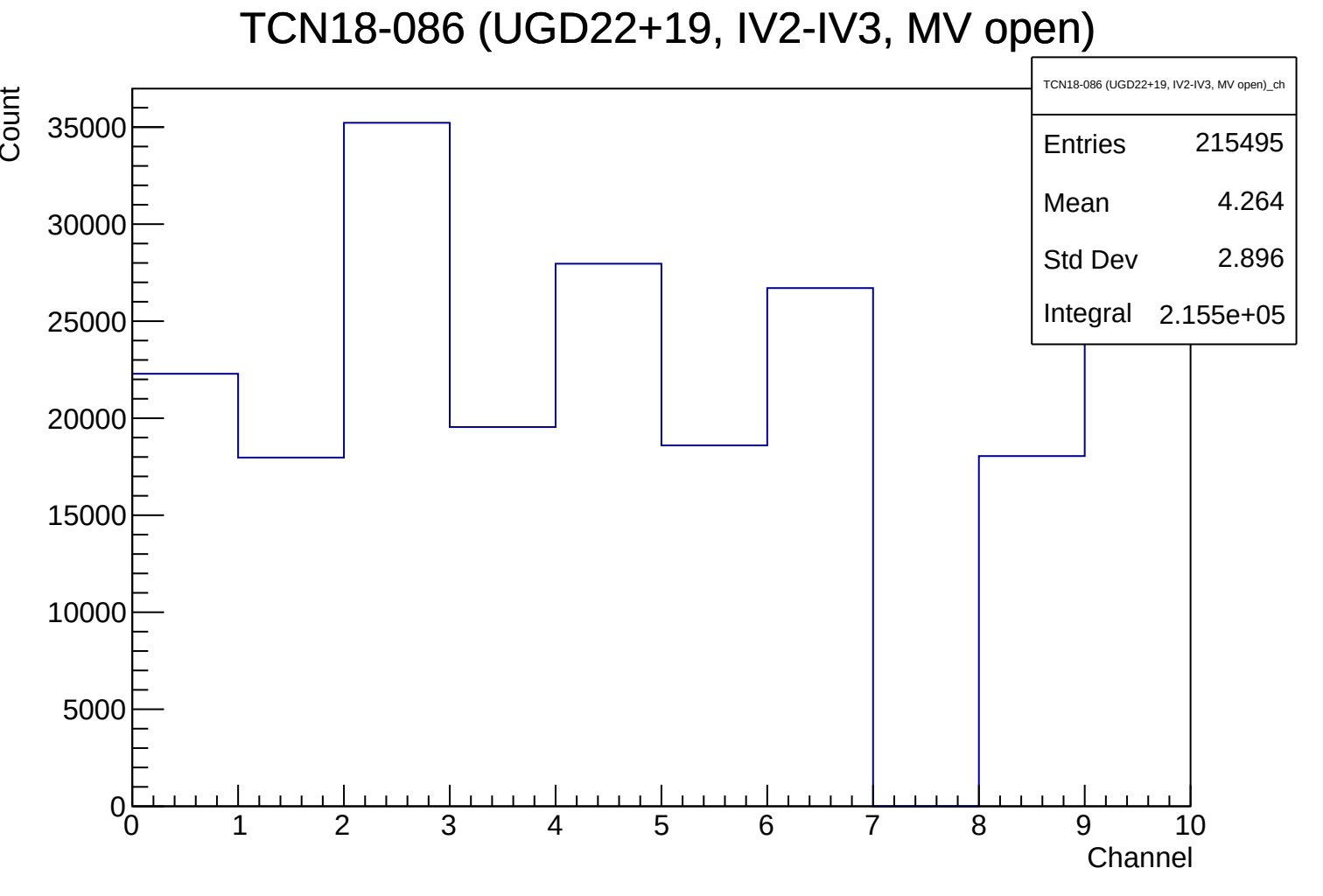

TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_100
Entries 3762
Mean 57.26
Std Dev 29.23
Integral 3762
χ² / ndf 14.33 / 13
Prob 0.3511
p0 1423 ± 985.2
τ 20.05 ± 3.88
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


TCN18-086 (UGD22+19, IV2-IV3, MV open) (He3 rate)
He3_991_101
Entries 3775
Mean 56.62
Std Dev 28.51
Integral 3775
χ² / ndf 40.48 / 33
Prob 0.1735
p0 1219 ± 370.8
τ 20.66 ± 1.66
He3 rate (s⁻¹)
10²
10
1
0
50
100
150
200
250
Time (s)


χ^2 / ndf 59.5 / 49
Prob 0.1446
p0 20.22 ± 0.1624
Pinhole storage lifetime (s)
Cycle
5
10
15
20
25
30
35
40
45
0
10
20
30
40
50


χ^2 / ndf 205.1 / 84
Prob 4.065e−12
p0 2.174 ± 0.02648
li6 background rate (1/s)
Cycle
0
20
40
60
80
100
1
2
3
4
5
6
7
8
9


χ² / ndf 595.9 / 97
Prob 0
p0 4.947 ± 0.03543
li6 background rate during irradiation (1/(μA))
16
14
12
10
8
6
4
0
20
40
60
80
100
Cycle


TCN18-086 (UGD22+19, IV2-IV3, MV open)
TCN18-086 (UGD22+19, IV2-IV3, MV open)_ch
Entries 215495
Mean 4.264
Std Dev 2.896
Integral 2.155e+05
Count
35000
30000
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
6
7
8
9
10
Channel