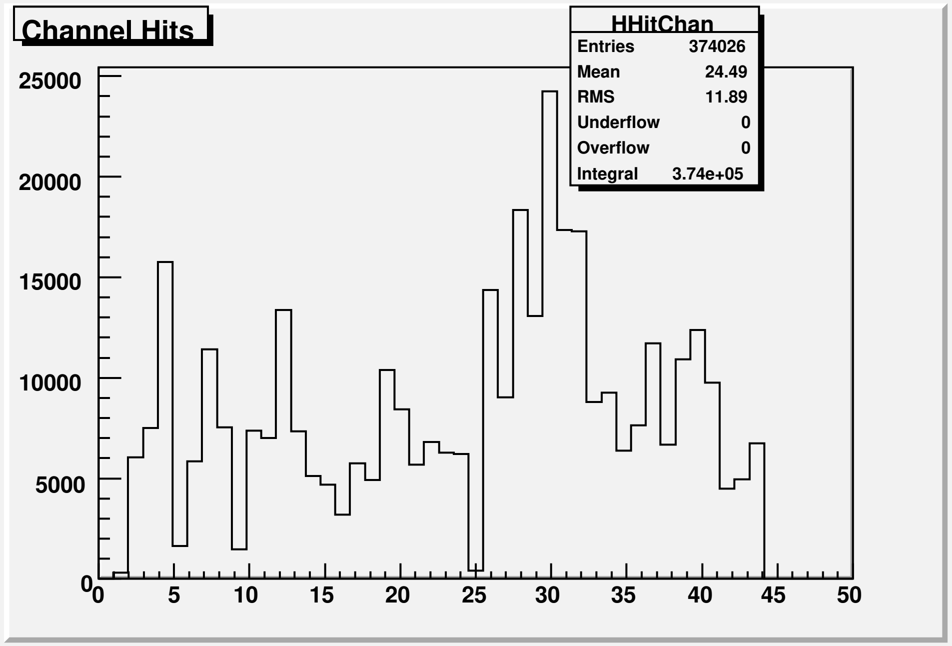
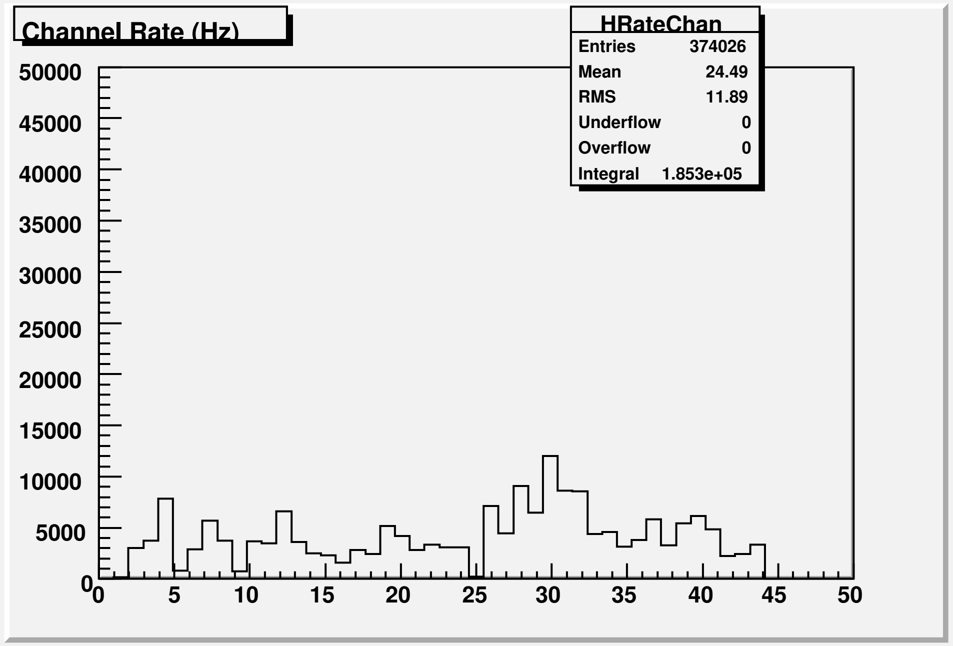
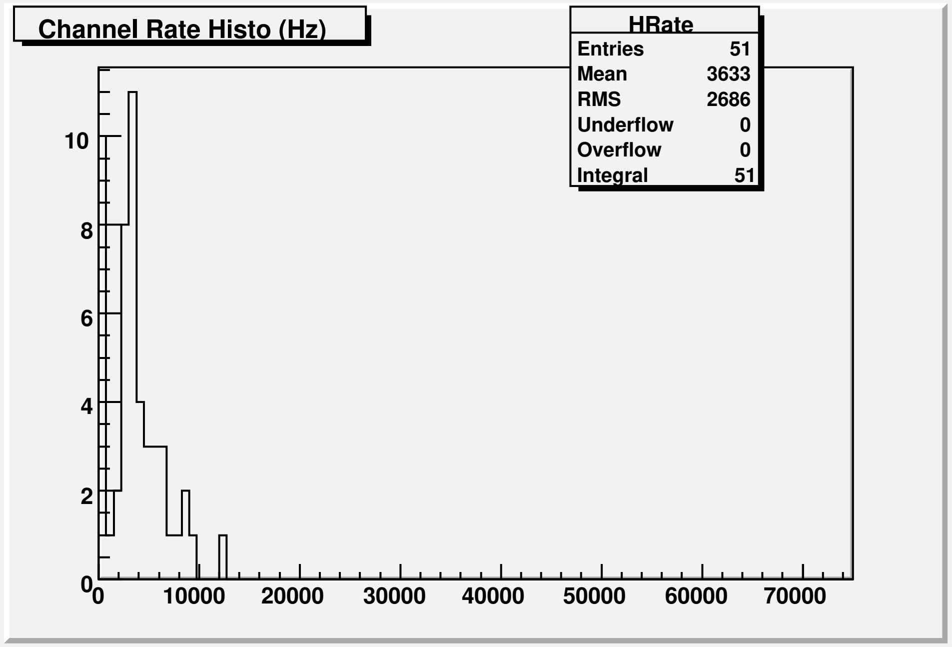
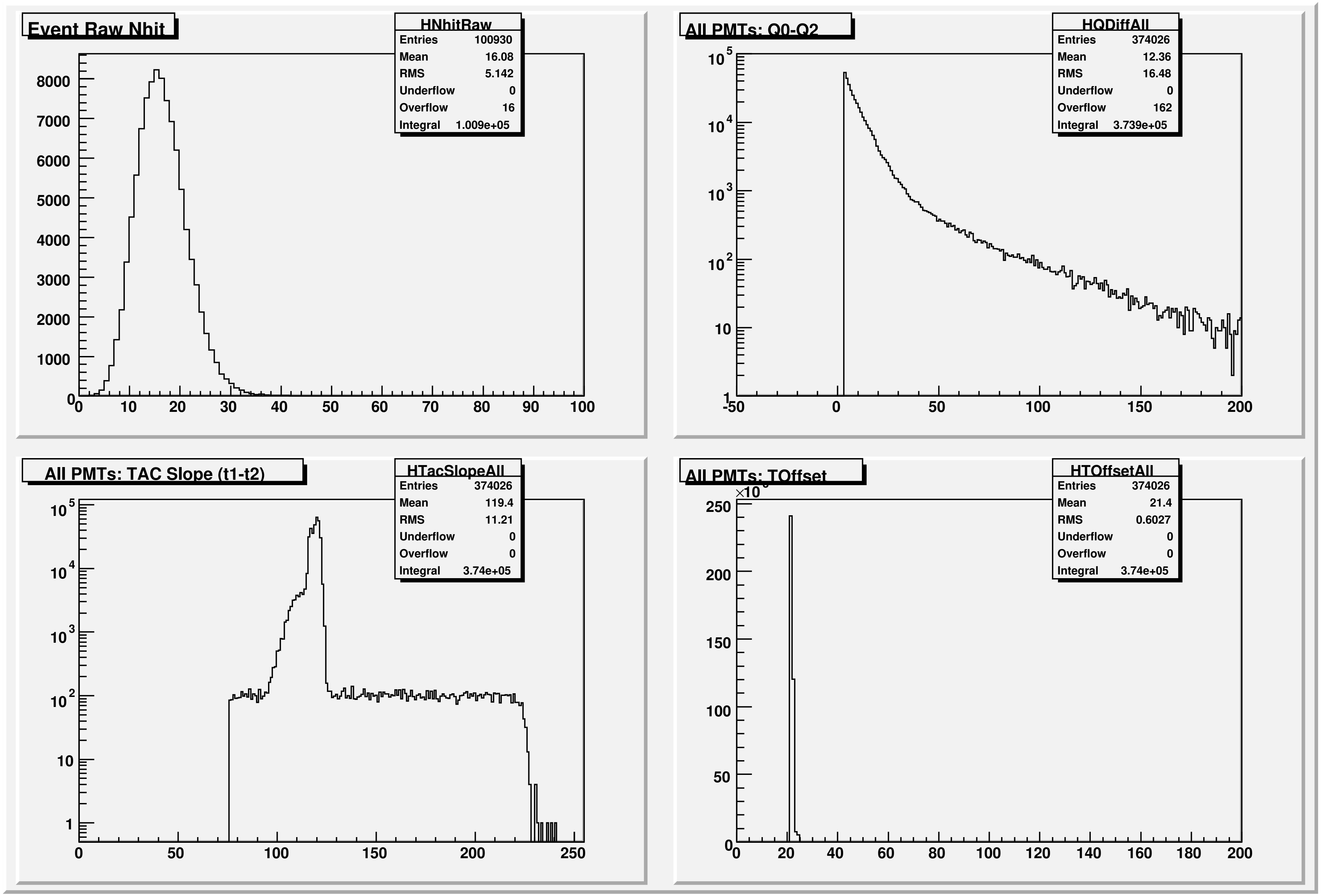
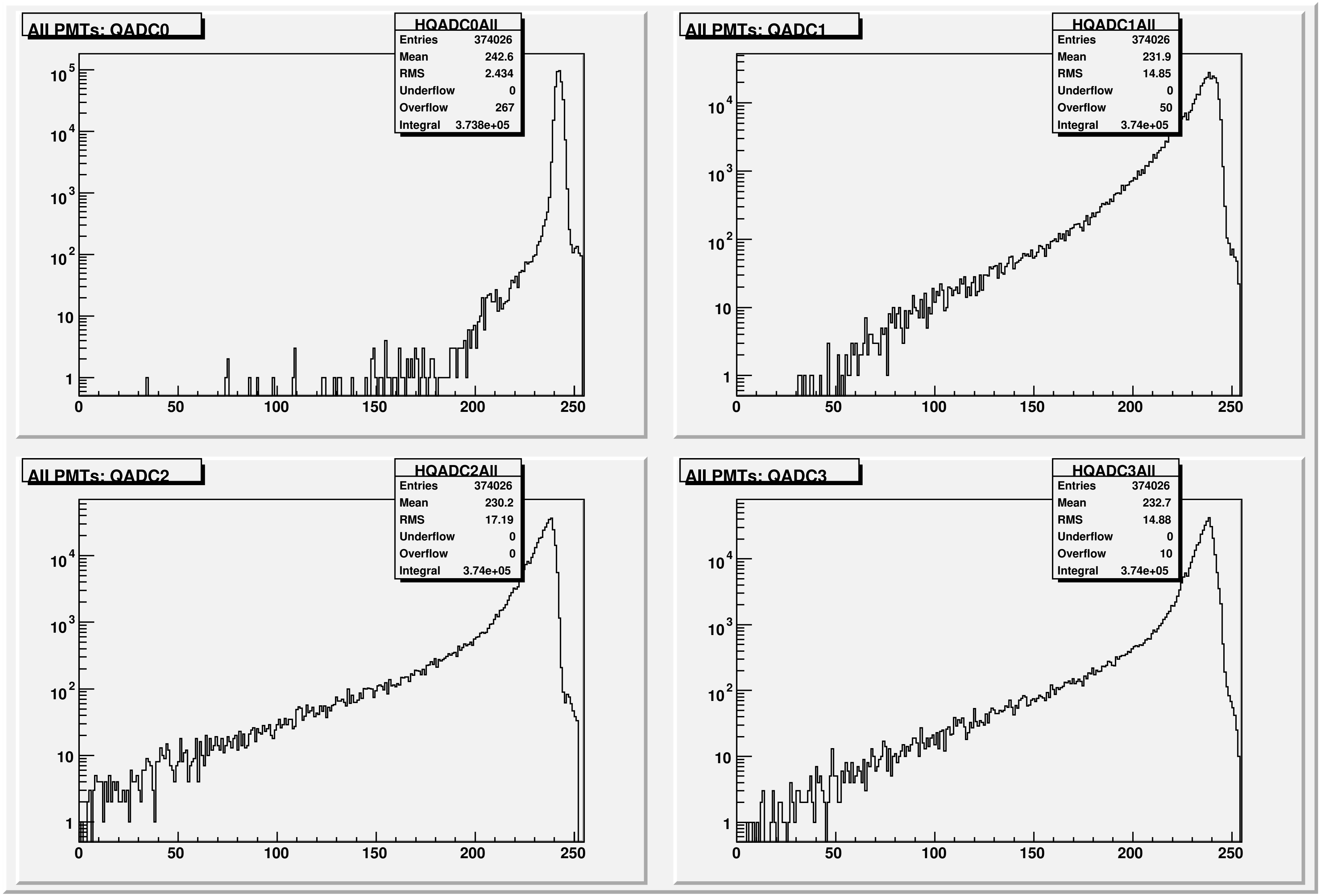
RUN: VlandUnCal Run11492 LEDTCut-QCut

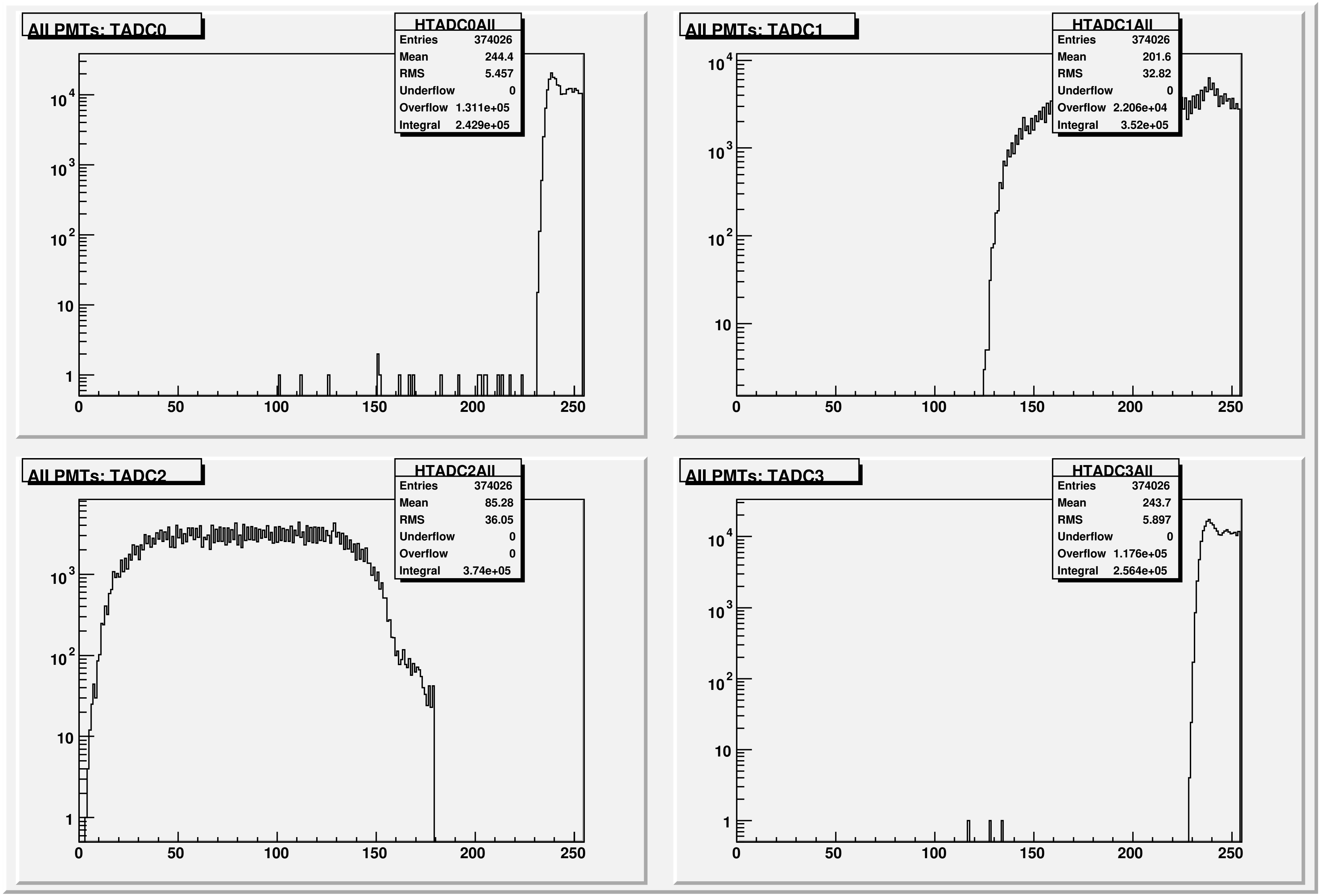

Channel Hits
HHitChan
Entries 374026
Mean 24.49
RMS 11.89
Underflow 0
Overflow 0
Integral 3.74e+05
25000
20000
15000
10000
5000
0
0
5
10
15
20
25
30
35
40
45
50

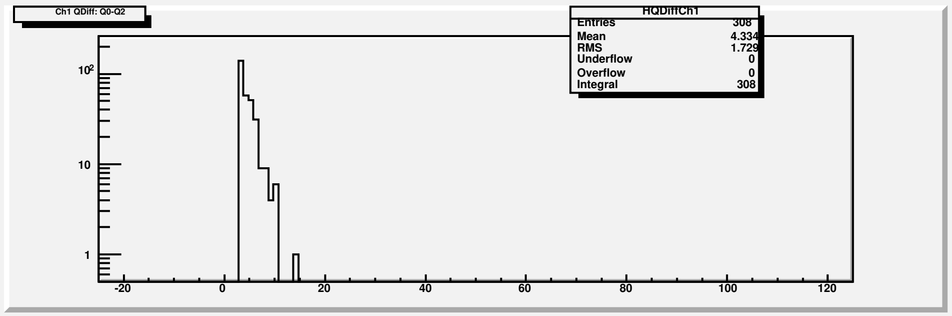

Channel Rate (Hz)
HRateChan
Entries 374026
Mean 24.49
RMS 11.89
Underflow 0
Overflow 0
Integral 1.853e+05
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
5
10
15
20
25
30
35
40
45
50

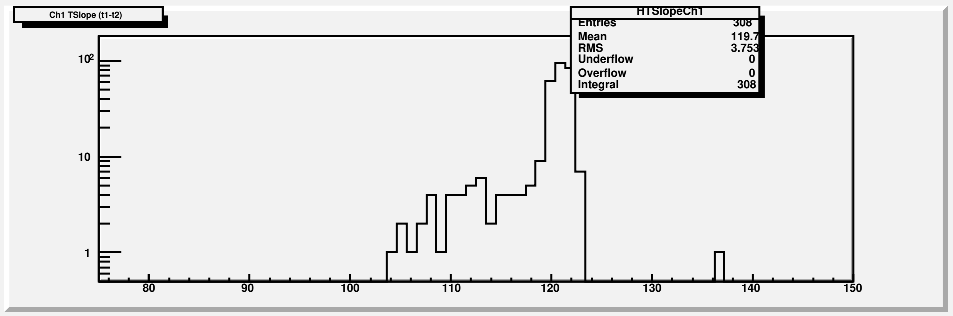

Channel Rate Histo (Hz)
HRate
Entries 51
Mean 3633
RMS 2686
Underflow 0
Overflow 0
Integral 51
10
8
6
4
2
0
0
10000
20000
30000
40000
50000
60000
70000

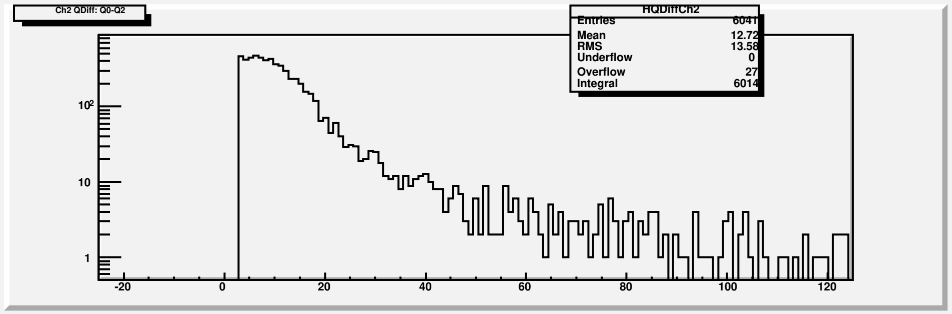

Event Raw Nhit
HNhitRaw
Entries 100930
Mean 16.08
RMS 5.142
Underflow 0
Overflow 16
Integral 1.009e+05
0
1000
2000
3000
4000
5000
6000
7000
8000
0 10 20 30 40 50 60 70 80 90 100
All PMTs: Q0-Q2
HQDiffAll
Entries 374026
Mean 12.36
RMS 16.48
Underflow 0
Overflow 162
Integral 3.739e+05
1
10
10^2
10^3
10^4
10^5
-50 0 50 100 150 200
All PMTs: TAC Slope (t1-t2)
HTacSlopeAll
Entries 374026
Mean 119.4
RMS 11.21
Underflow 0
Overflow 0
Integral 3.74e+05
1
10
10^2
10^3
10^4
10^5
0 50 100 150 200 250
All PMTs: TOffset
HTOffsetAll
Entries 374026
Mean 21.4
RMS 0.6027
Underflow 0
Overflow 0
Integral 3.74e+05
×10
0
50
100
150
200
250
0 20 40 60 80 100 120 140 160 180 200

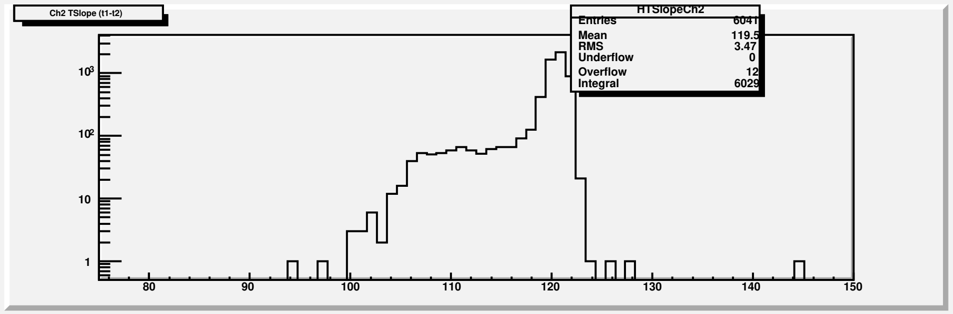

All PMTs: QADC0
HQADC0All
Entries 374026
Mean 242.6
RMS 2.434
Underflow 0
Overflow 267
Integral 3.738e+05
10^5
10^4
10^3
10^2
10
1
0
50
100
150
200
250
All PMTs: QADC1
HQADC1All
Entries 374026
Mean 231.9
RMS 14.85
Underflow 0
Overflow 50
Integral 3.74e+05
10^4
10^3
10^2
10
1
0
50
100
150
200
250
All PMTs: QADC2
HQADC2All
Entries 374026
Mean 230.2
RMS 17.19
Underflow 0
Overflow 0
Integral 3.74e+05
10^4
10^3
10^2
10
1
0
50
100
150
200
250
All PMTs: QADC3
HQADC3All
Entries 374026
Mean 232.7
RMS 14.88
Underflow 0
Overflow 10
Integral 3.74e+05
10^4
10^3
10^2
10
1
0
50
100
150
200
250

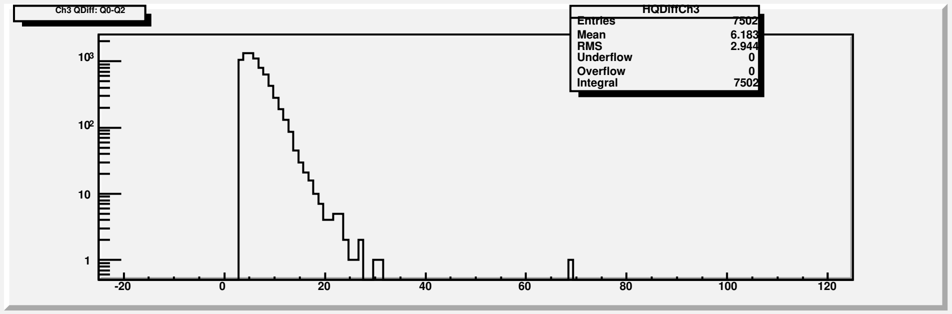

All PMTs: TADC0
HTADC0All
Entries 374026
Mean 244.4
RMS 5.457
Underflow 0
Overflow 1.311e+05
Integral 2.429e+05
All PMTs: TADC1
HTADC1All
Entries 374026
Mean 201.6
RMS 32.82
Underflow 0
Overflow 2.206e+04
Integral 3.52e+05
All PMTs: TADC2
HTADC2All
Entries 374026
Mean 85.28
RMS 36.05
Underflow 0
Overflow 0
Integral 3.74e+05
All PMTs: TADC3
HTADC3All
Entries 374026
Mean 243.7
RMS 5.897
Underflow 0
Overflow 1.176e+05
Integral 2.564e+05
1
10
10^2
10^3
10^4
0
50
100
150
200
250

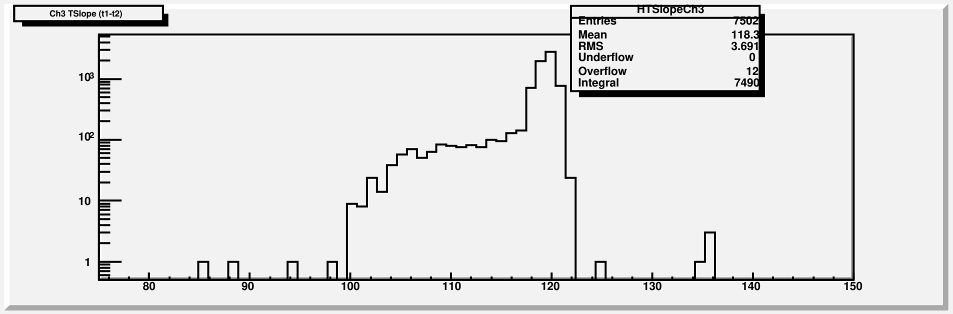

Ch1 QDiff: Q0-Q2
HQDiffCh1
Entries 308
Mean 4.334
RMS 1.729
Underflow 0
Overflow 0
Integral 308
10^2
10
1
-20
0
20
40
60
80
100
120

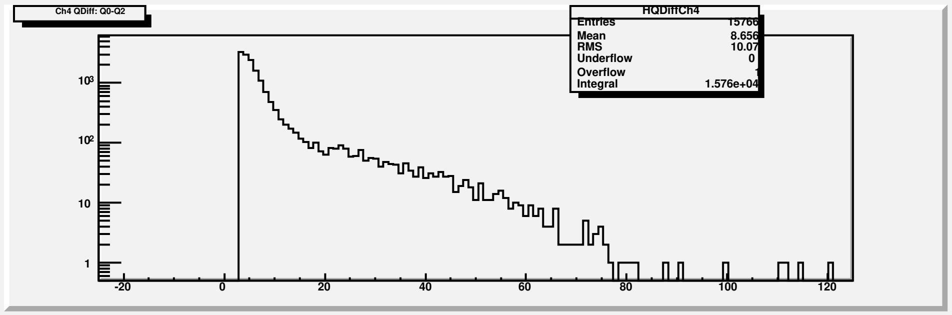

Ch1 TSlope (t1-t2)
HTSlopeCh1
Entries 308
Mean 119.7
RMS 3.753
Underflow 0
Overflow 0
Integral 308
10^2
10
1
80
90
100
110
120
130
140
150

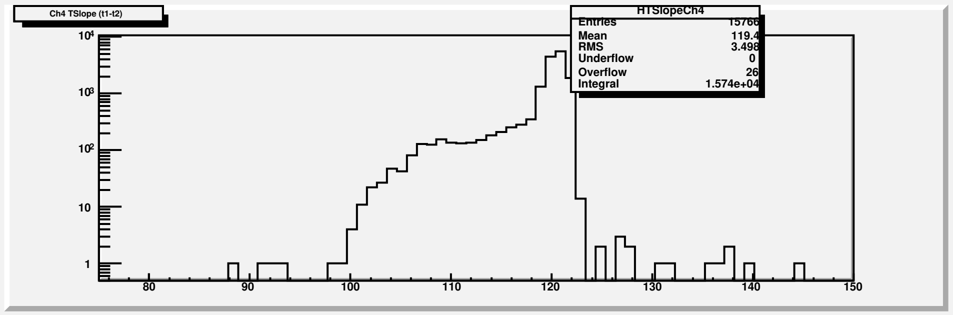

Ch2 QDiff: Q0-Q2
HQDiffCh2
Entries 6041
Mean 12.72
RMS 13.58
Underflow 0
Overflow 27
Integral 6014
10^2
10
1
-20
0
20
40
60
80
100
120

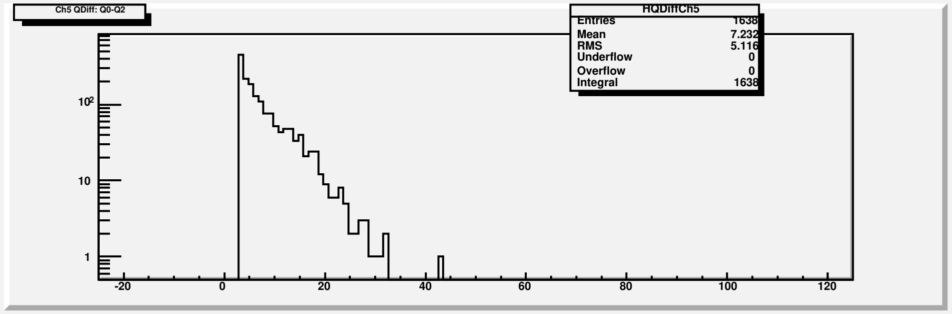

Ch2 TSlope (t1-t2)
HTSlopeCh2
Entries 6041
Mean 119.5
RMS 3.47
Underflow 0
Overflow 12
Integral 6029
10^3
10^2
10
1
80
90
100
110
120
130
140
150

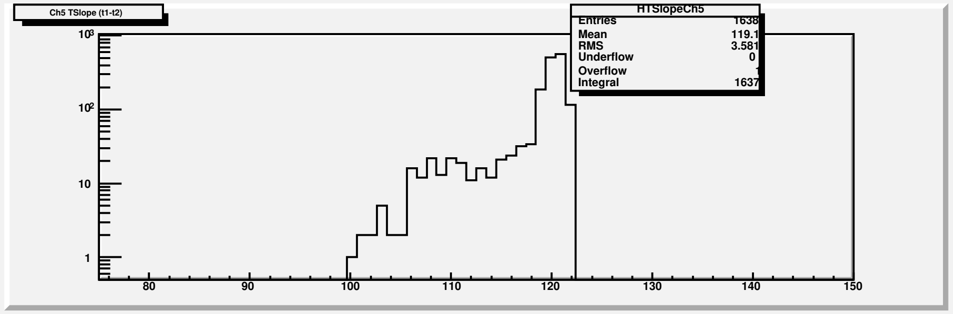

Ch3 QDiff: Q0-Q2
HQDiffCh3
Entries 7502
Mean 6.183
RMS 2.944
Underflow 0
Overflow 0
Integral 7502
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

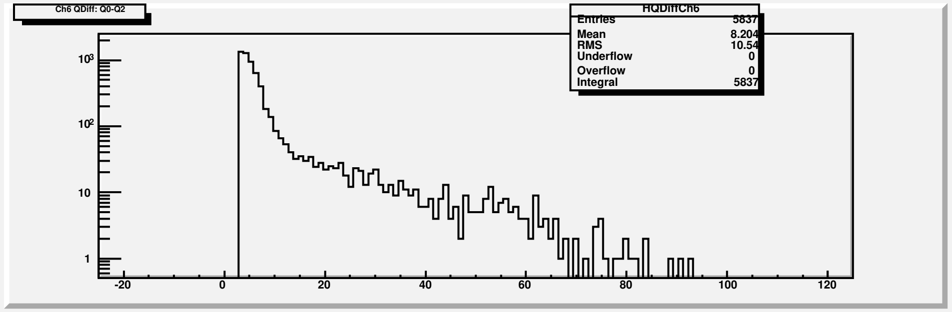

Ch3 TSlope (t1-t2)
HTSlopeCh3
Entries 7502
Mean 118.3
RMS 3.691
Underflow 0
Overflow 12
Integral 7490
10^3
10^2
10
1
80
90
100
110
120
130
140
150

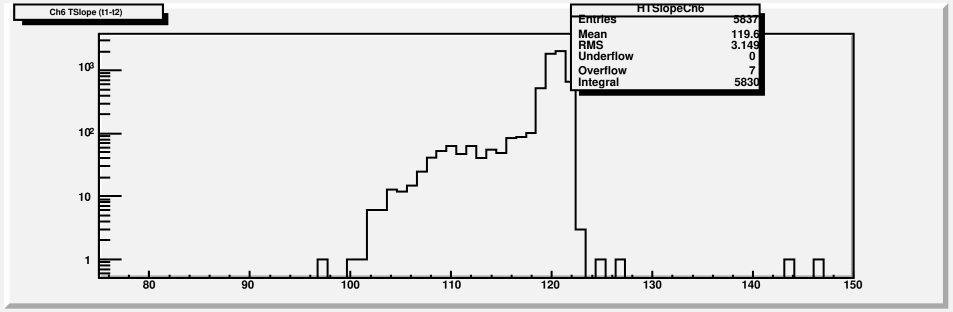

Ch4 QDiff: Q0-Q2
HQDiffCh4
Entries 15766
Mean 8.656
RMS 10.07
Underflow 0
Overflow 1
Integral 1.576e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

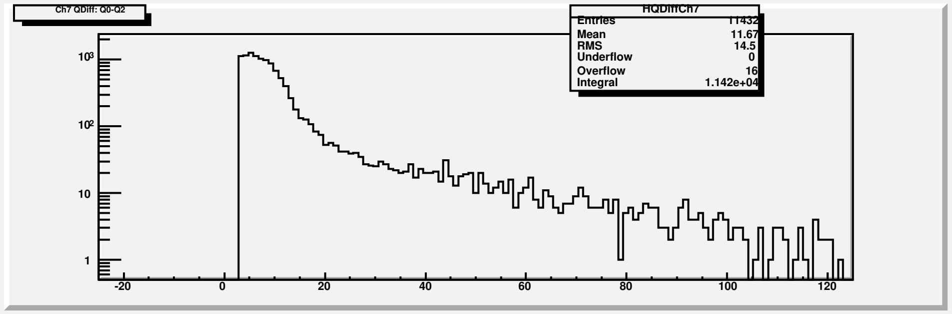

Ch4 TSlope (t1-t2)
HTSlopeCh4
Entries 15766
Mean 119.4
RMS 3.498
Underflow 0
Overflow 26
Integral 1.574e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

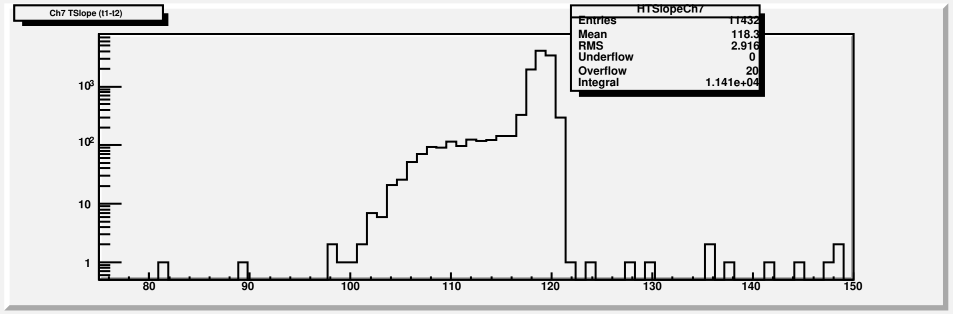

Ch5 QDiff: Q0-Q2
HQDiffCh5
Entries 1638
Mean 7.232
RMS 5.116
Underflow 0
Overflow 0
Integral 1638
10²
10
1
-20
0
20
40
60
80
100
120

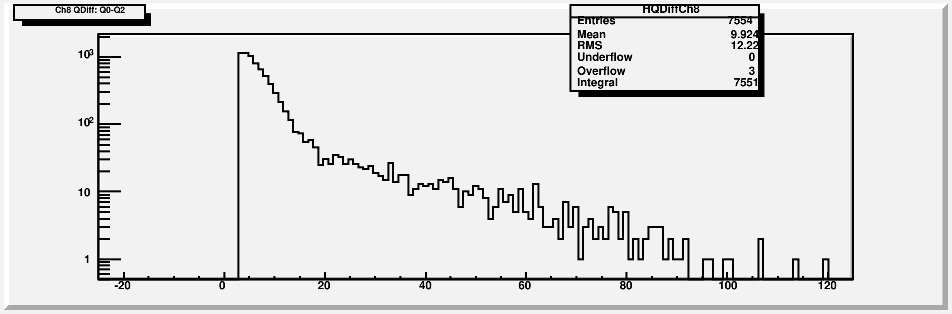

Ch5 TSlope (t1-t2)
HTSlopeCh5
Entries 1638
Mean 119.1
RMS 3.581
Underflow 0
Overflow 1
Integral 1637
10³
10²
10
1
80
90
100
110
120
130
140
150

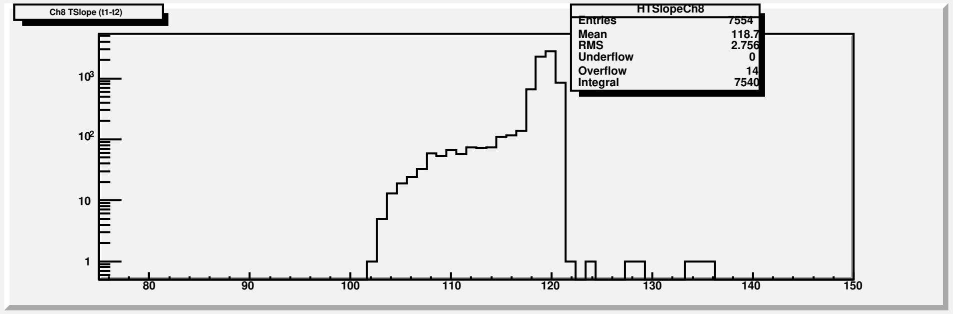

Ch6 QDiff: Q0-Q2
HQDiffCh6
Entries 5837
Mean 8.204
RMS 10.54
Underflow 0
Overflow 0
Integral 5837
10³
10²
10
1
-20
0
20
40
60
80
100
120

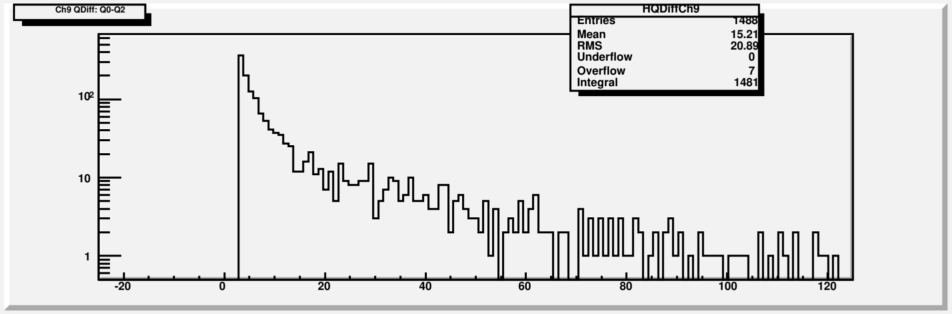

Ch6 TSlope (t1-t2)
HTSlopeCh6
Entries 5837
Mean 119.6
RMS 3.149
Underflow 0
Overflow 7
Integral 5830
10³
10²
10
1
80
90
100
110
120
130
140
150

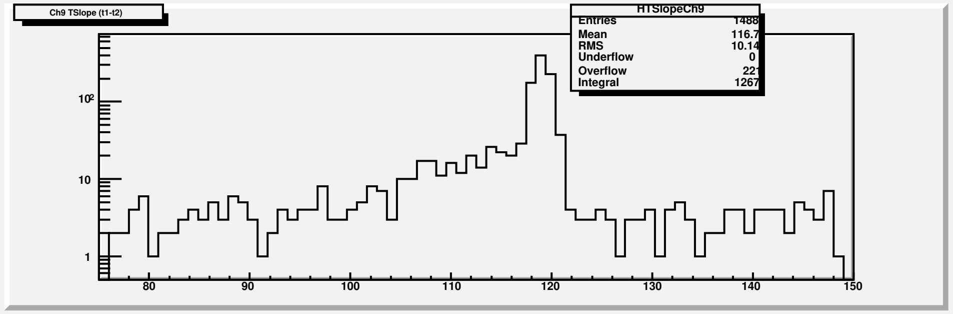

Ch7 QDiff: Q0-Q2
HQDiffCh7
Entries 11432
Mean 11.67
RMS 14.5
Underflow 0
Overflow 16
Integral 1.142e+04
10³
10²
10
1
-20
0
20
40
60
80
100
120

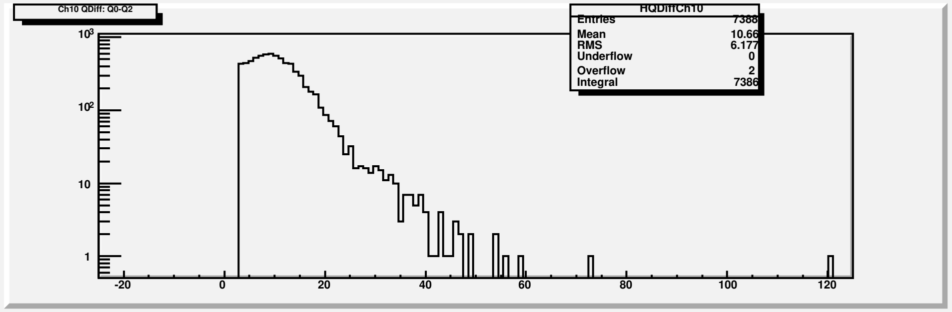

Ch7 TSlope (t1-t2)
HTSlopeCh7
Entries 11432
Mean 118.3
RMS 2.916
Underflow 0
Overflow 20
Integral 1.141e+04
10³
10²
10
1
80
90
100
110
120
130
140
150

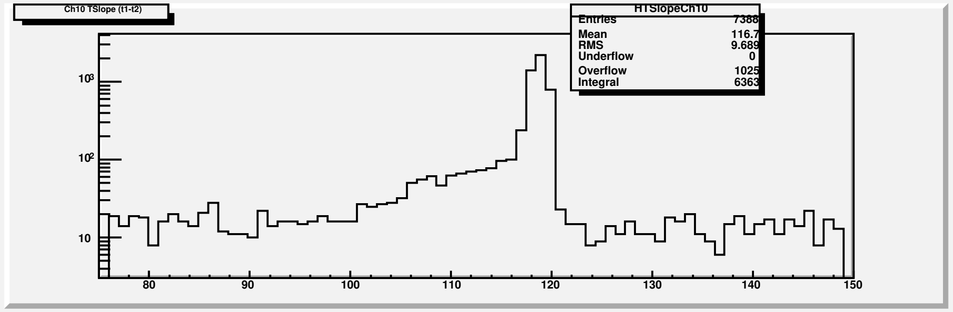

Ch8 QDiff: Q0-Q2
HQDiffCh8
Entries 7554
Mean 9.924
RMS 12.22
Underflow 0
Overflow 3
Integral 7551
10³
10²
10
1
-20
0
20
40
60
80
100
120

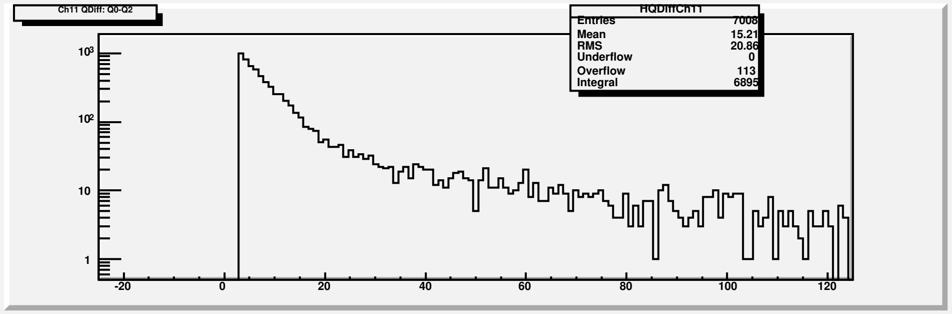

Ch8 TSlope (t1-t2)
HTSlopeCh8
Entries 7554
Mean 118.7
RMS 2.756
Underflow 0
Overflow 14
Integral 7540
10³
10²
10
1
80
90
100
110
120
130
140
150

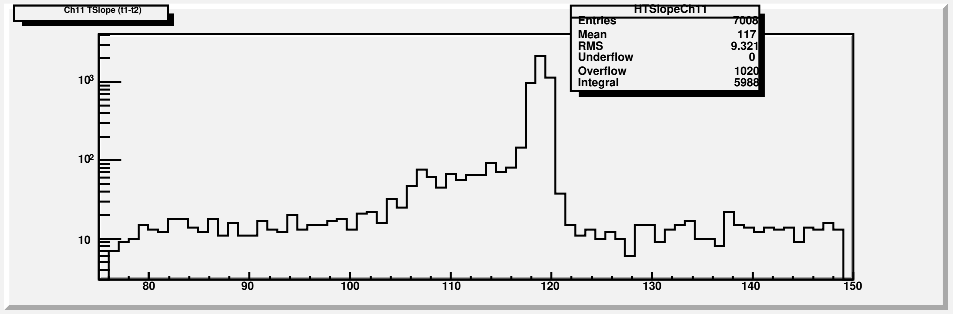

Ch9 QDiff: Q0-Q2
HQDiffCh9
Entries 1488
Mean 15.21
RMS 20.89
Underflow 0
Overflow 7
Integral 1481
1
10
10²
-20
0
20
40
60
80
100
120

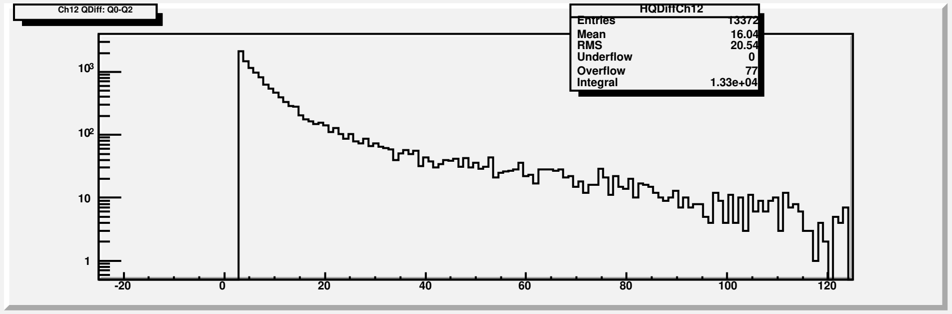

Ch9 TSlope (t1-t2)
HTSlopeCh9
Entries 1488
Mean 116.7
RMS 10.14
Underflow 0
Overflow 221
Integral 1267
1
10
10²
80
90
100
110
120
130
140
150

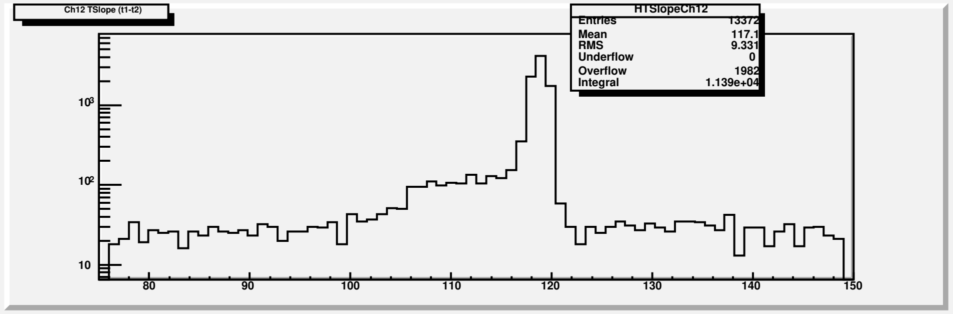

Ch10 QDiff: Q0-Q2
HQDiffCh10
Entries 7388
Mean 10.66
RMS 6.177
Underflow 0
Overflow 2
Integral 7386
1
10
10²
10³
-20
0
20
40
60
80
100
120

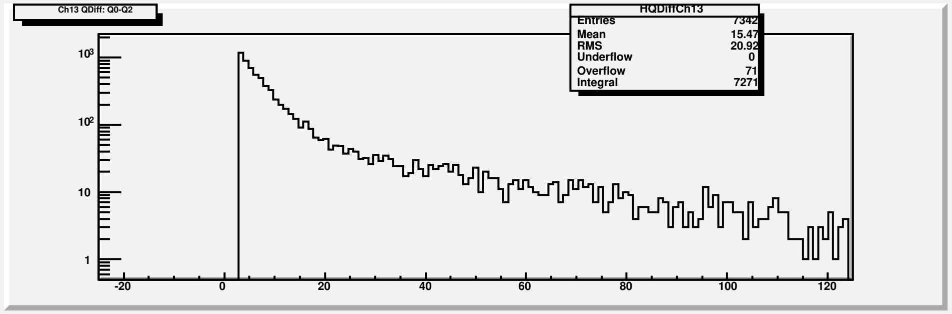

Ch10 TSlope (t1-t2)
HTSlopeCh10
Entries 7388
Mean 116.7
RMS 9.689
Underflow 0
Overflow 1025
Integral 6363
10
10²
10³
80
90
100
110
120
130
140
150

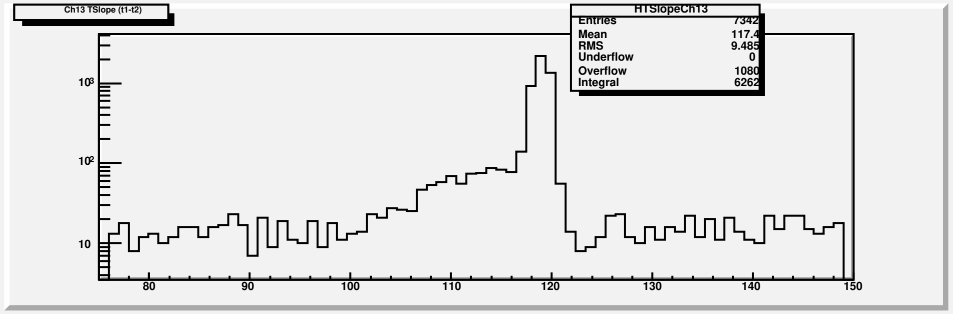

Ch11 QDiff: Q0-Q2
HQDiffCh11
Entries 7008
Mean 15.21
RMS 20.86
Underflow 0
Overflow 113
Integral 6895
1
10
10²
10³
-20
0
20
40
60
80
100
120

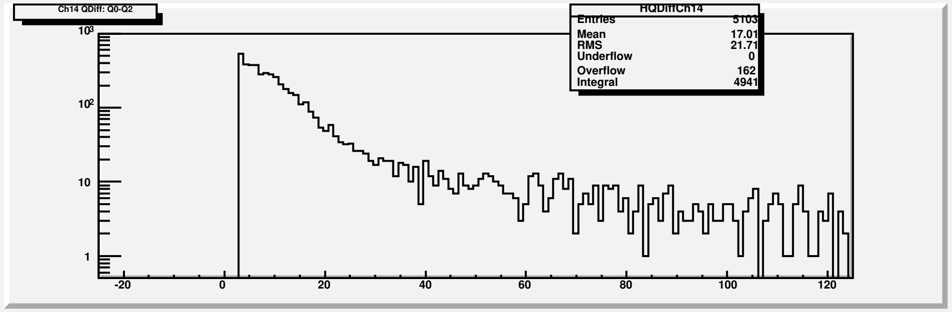

Ch11 TSlope (t1-t2)
HTSlopeCh11
Entries 7008
Mean 117
RMS 9.321
Underflow 0
Overflow 1020
Integral 5988
10
10²
10³
80
90
100
110
120
130
140
150

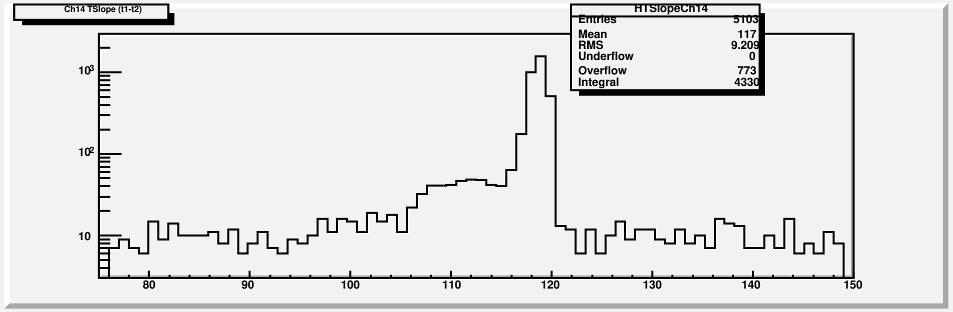

Ch12 QDiff: Q0-Q2
HQDiffCh12
Entries 13372
Mean 16.04
RMS 20.54
Underflow 0
Overflow 77
Integral 1.33e+04
1
10
10²
10³
-20
0
20
40
60
80
100
120

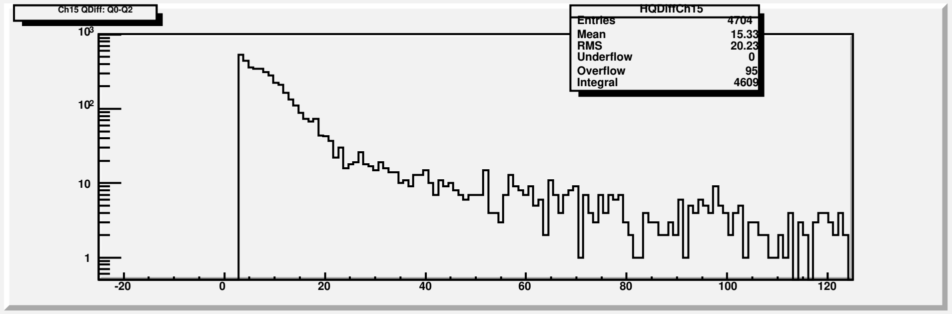

Ch12 TSlope (t1-t2)
HTSlopeCh12
Entries 13372
Mean 117.1
RMS 9.331
Underflow 0
Overflow 1982
Integral 1.139e+04
10
10²
10³
80
90
100
110
120
130
140
150

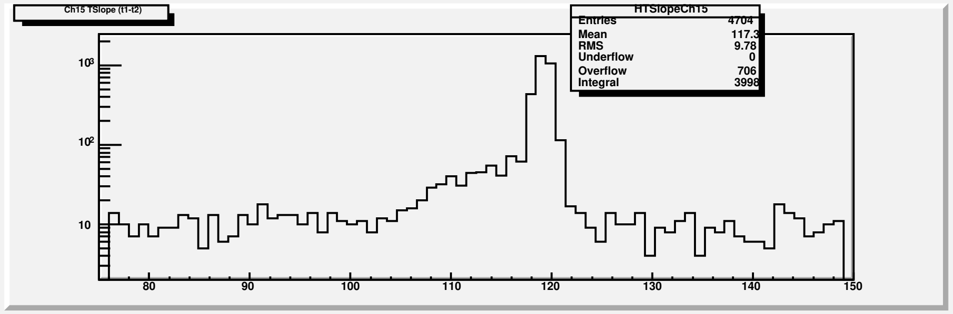

Ch13 QDiff: Q0-Q2
HQDiffCh13
Entries 7342
Mean 15.47
RMS 20.92
Underflow 0
Overflow 71
Integral 7271
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

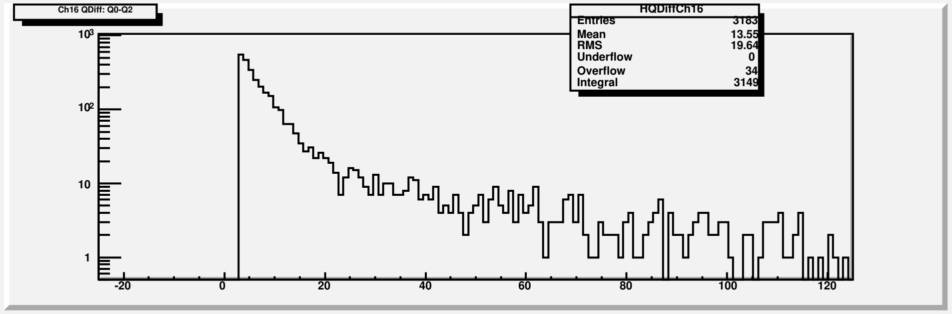

Ch13 TSlope (t1-t2)
HTSlopeCh13
Entries 7342
Mean 117.4
RMS 9.485
Underflow 0
Overflow 1080
Integral 6262
10^3
10^2
10
80
90
100
110
120
130
140
150

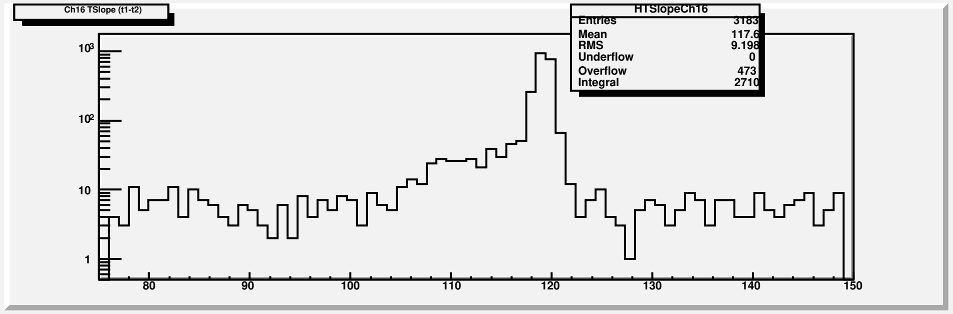

Ch14 QDiff: Q0-Q2
HQDiffCh14
Entries 5103
Mean 17.01
RMS 21.71
Underflow 0
Overflow 162
Integral 4941
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

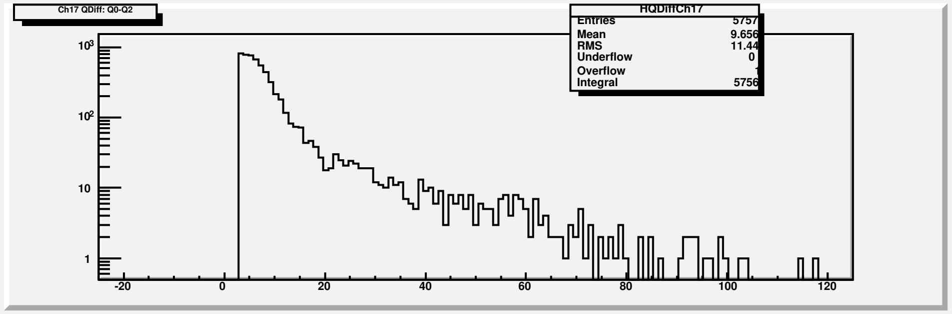

Ch14 TSlope (t1-t2)
HTSlopeCh14
Entries 5103
Mean 117
RMS 9.209
Underflow 0
Overflow 773
Integral 4330
10^3
10^2
10
80
90
100
110
120
130
140
150

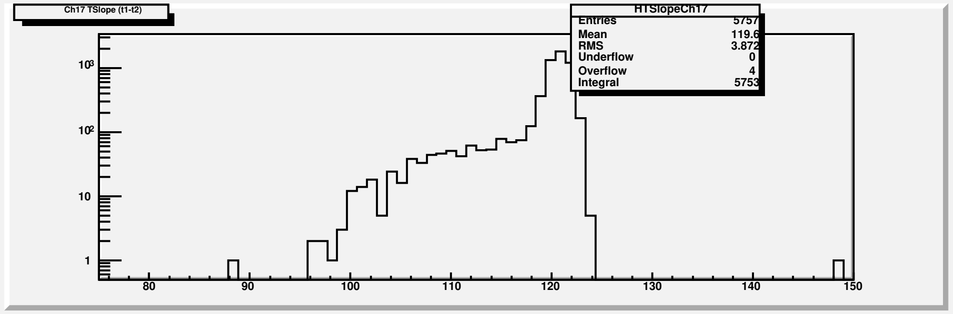

Ch15 QDiff: Q0-Q2
HQDiffCh15
Entries 4704
Mean 15.33
RMS 20.23
Underflow 0
Overflow 95
Integral 4609
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

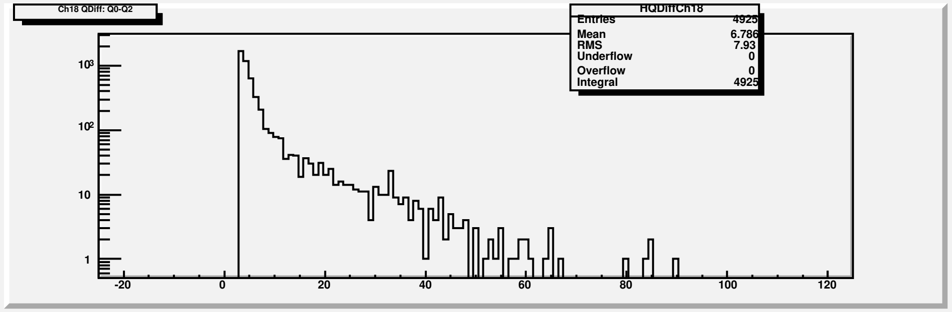

Ch15 TSlope (t1-t2)
HTSlopeCh15
Entries 4704
Mean 117.3
RMS 9.78
Underflow 0
Overflow 706
Integral 3998
10^3
10^2
10
80
90
100
110
120
130
140
150

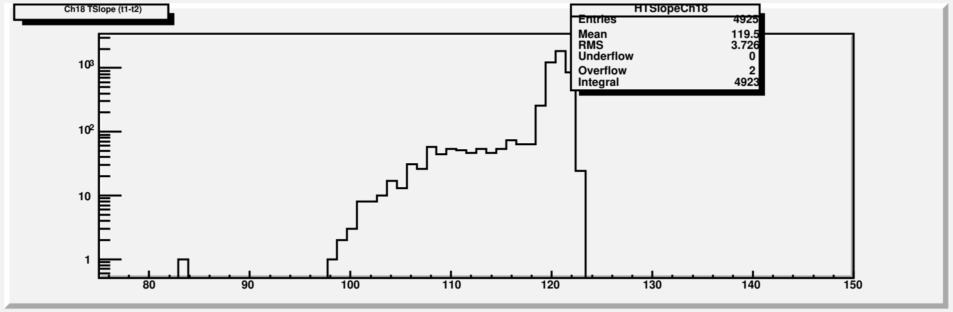

Ch16 QDiff: Q0-Q2
HQDiffCh16
Entries 3183
Mean 13.55
RMS 19.64
Underflow 0
Overflow 34
Integral 3149
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

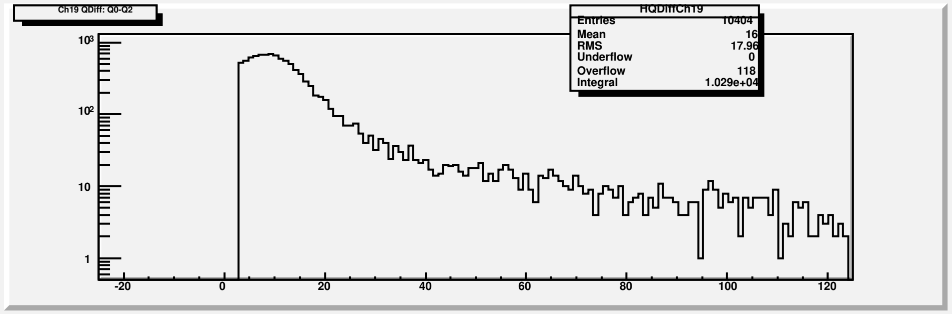

Ch16 TSlope (t1-t2)
HTSlopeCh16
Entries 3183
Mean 117.6
RMS 9.198
Underflow 0
Overflow 473
Integral 2710
10^3
10^2
10
1
80
90
100
110
120
130
140
150

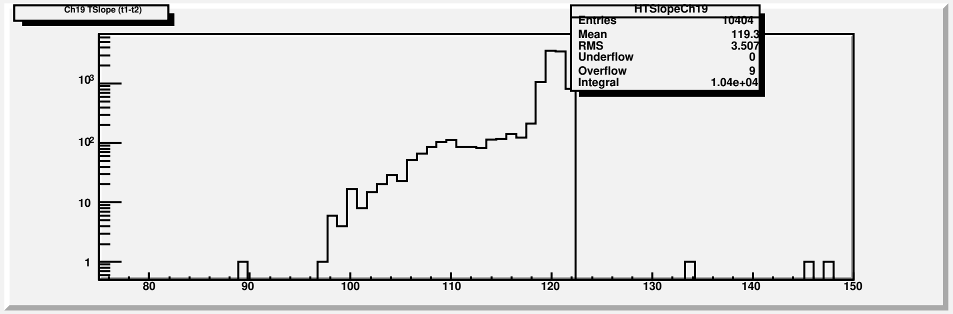

Ch17 QDiff: Q0-Q2
HQDiffCh17
Entries 5757
Mean 9.656
RMS 11.44
Underflow 0
Overflow 1
Integral 5756
10³
10²
10
1
-20
0
20
40
60
80
100
120

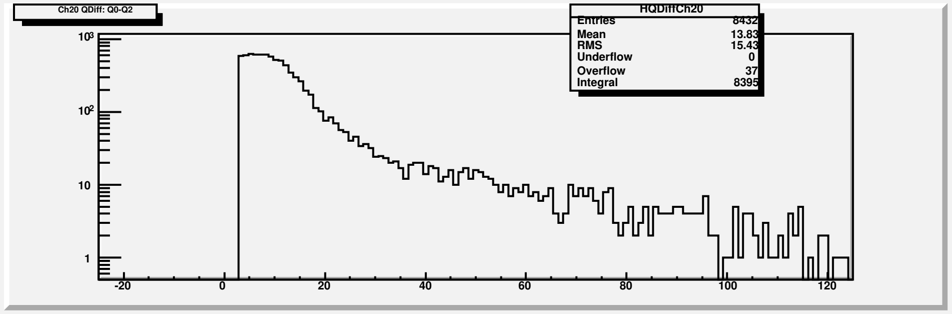

Ch17 TSlope (t1-t2)
HTSlopeCh17
Entries 5757
Mean 119.6
RMS 3.872
Underflow 0
Overflow 4
Integral 5753
10³
10²
10
1
80
90
100
110
120
130
140
150

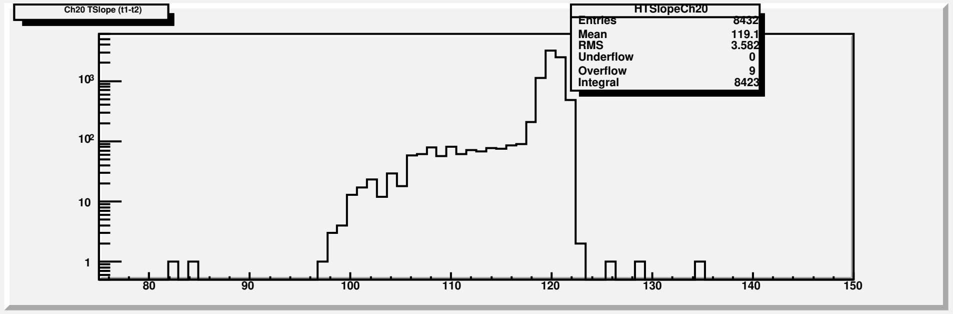

Ch18 QDiff: Q0-Q2
HQDiffCh18
Entries 4925
Mean 6.786
RMS 7.93
Underflow 0
Overflow 0
Integral 4925
10³
10²
10
1
-20
0
20
40
60
80
100
120

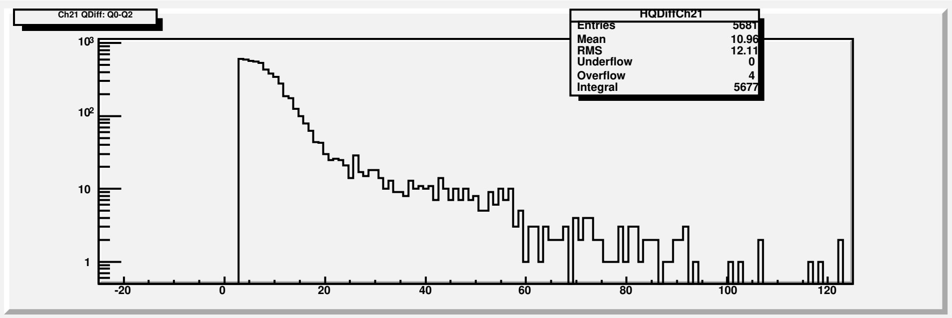

Ch18 TSlope (t1-t2)
HTSlopeCh18
Entries 4925
Mean 119.5
RMS 3.726
Underflow 0
Overflow 2
Integral 4923
10³
10²
10
1
80
90
100
110
120
130
140
150

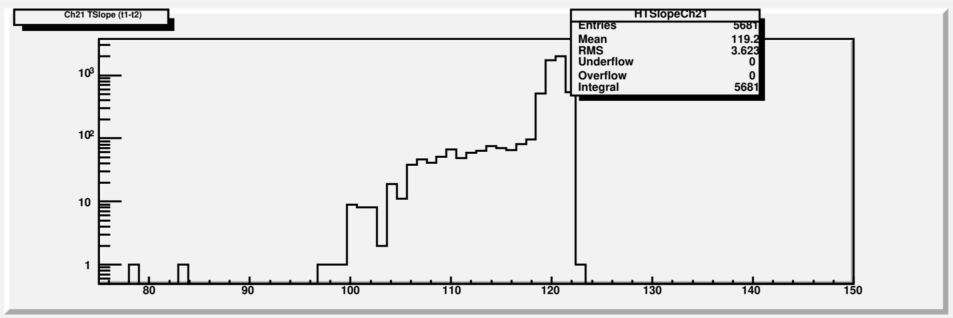

Ch19 QDiff: Q0-Q2
HQDiffCh19
Entries 10404
Mean 16
RMS 17.96
Underflow 0
Overflow 118
Integral 1.029e+04
10³
10²
10
1
-20
0
20
40
60
80
100
120

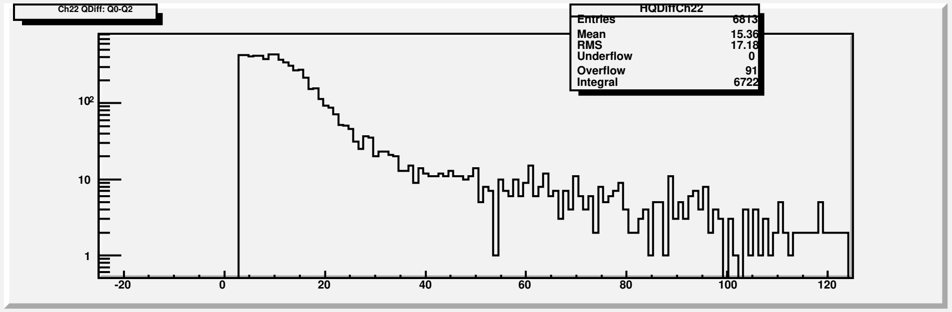

Ch19 TSlope (t1-t2)
HTSlopeCh19
Entries 10404
Mean 119.3
RMS 3.507
Underflow 0
Overflow 9
Integral 1.04e+04
10³
10²
10
1
80
90
100
110
120
130
140
150

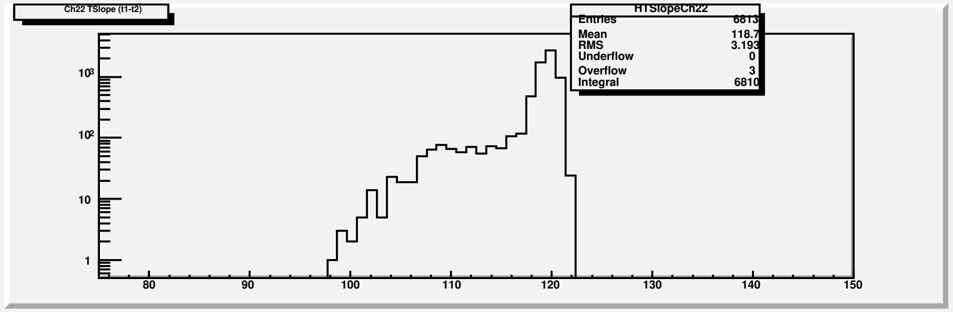

Ch20 QDiff: Q0-Q2
HQDiffCh20
Entries 8432
Mean 13.83
RMS 15.43
Underflow 0
Overflow 37
Integral 8395
10³
10²
10
1
-20
0
20
40
60
80
100
120

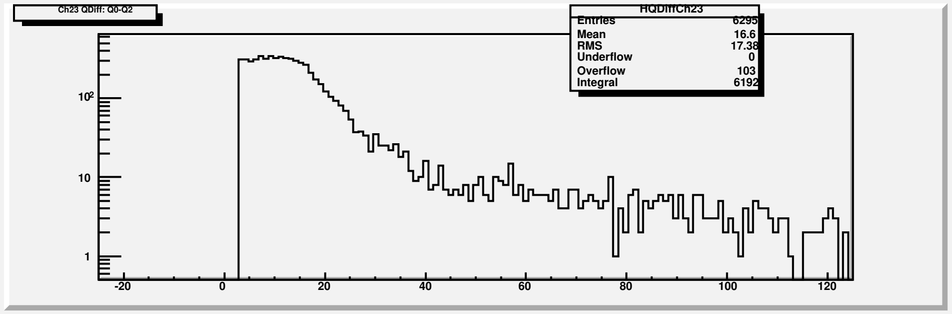

Ch20 TSlope (t1-t2)
HTSlopeCh20
Entries 8432
Mean 119.1
RMS 3.582
Underflow 0
Overflow 9
Integral 8423
10³
10²
10
1
80
90
100
110
120
130
140
150

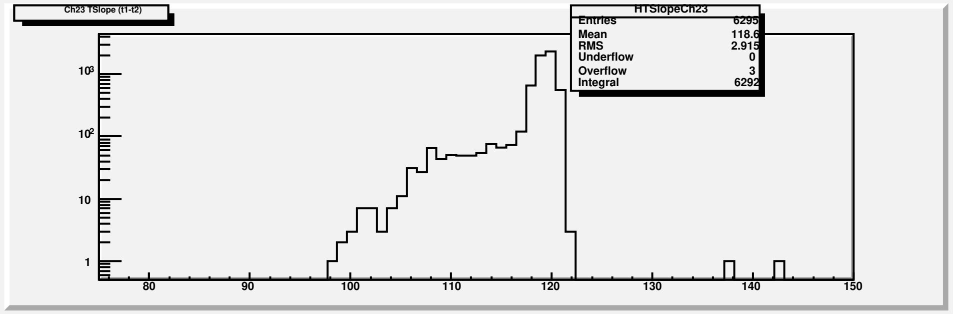

Ch21 QDiff: Q0-Q2
HQDiffCh21
Entries 5681
Mean 10.96
RMS 12.11
Underflow 0
Overflow 4
Integral 5677
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

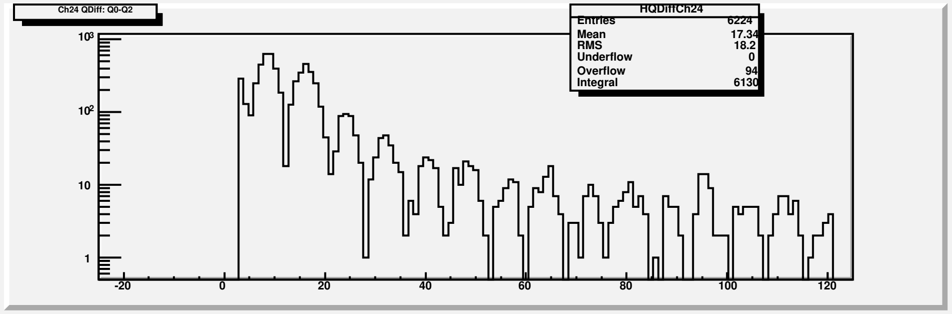

Ch21 TSlope (t1-t2)
HTSlopeCh21
Entries 5681
Mean 119.2
RMS 3.623
Underflow 0
Overflow 0
Integral 5681
10^3
10^2
10
1
80
90
100
110
120
130
140
150

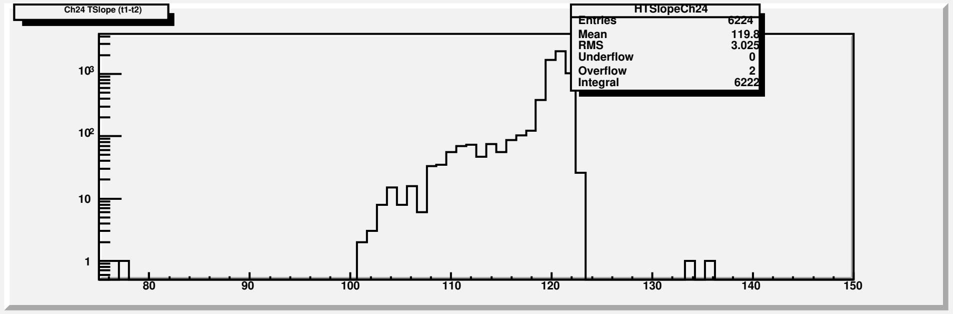

Ch22 QDiff: Q0-Q2
HQDiffCh22
Entries 6813
Mean 15.36
RMS 17.18
Underflow 0
Overflow 91
Integral 6722
10^2
10
1
-20
0
20
40
60
80
100
120

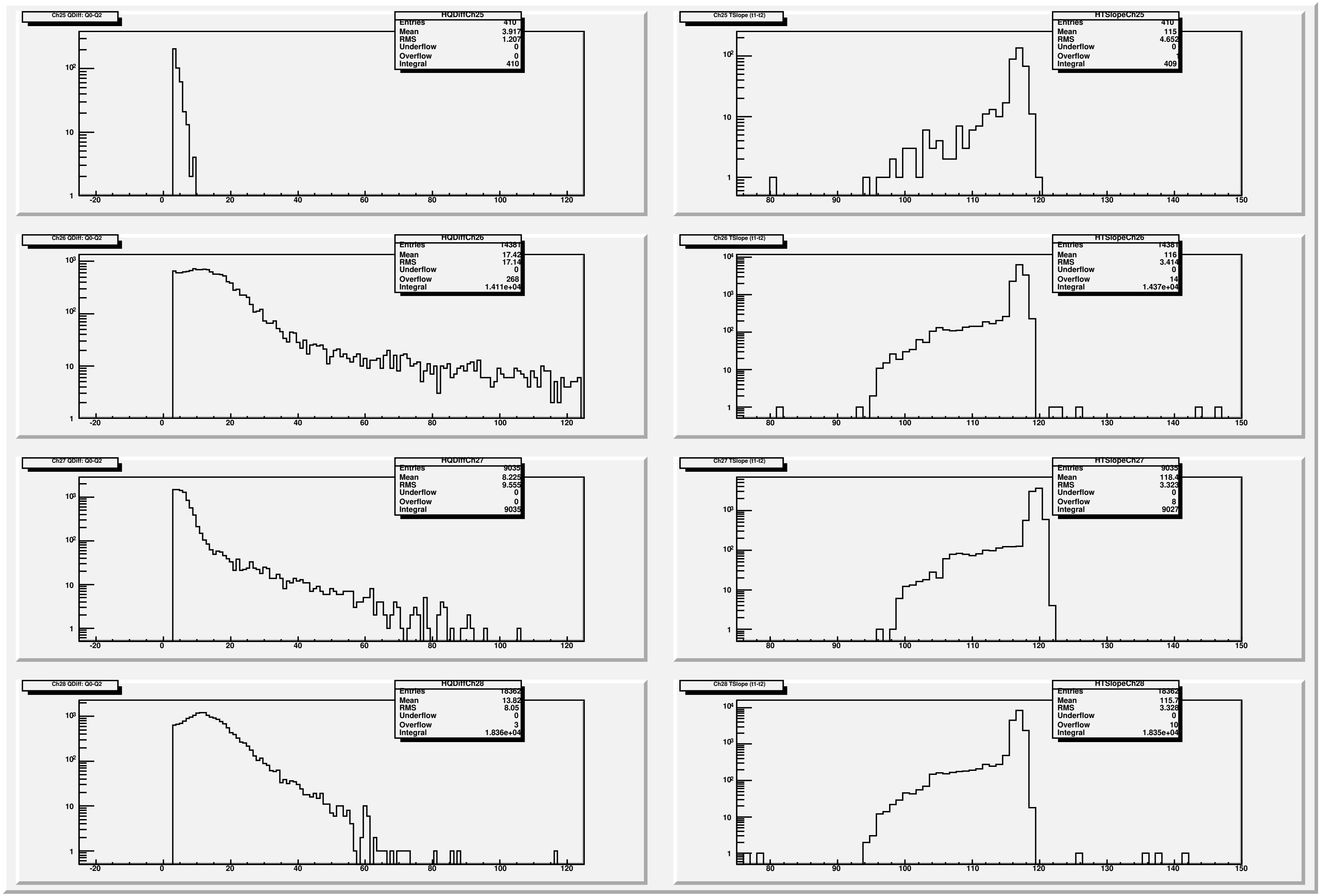

Ch22 TSlope (t1-t2)
HTSlopeCh22
Entries 6813
Mean 118.7
RMS 3.193
Underflow 0
Overflow 3
Integral 6810
10^3
10^2
10
1
80
90
100
110
120
130
140
150

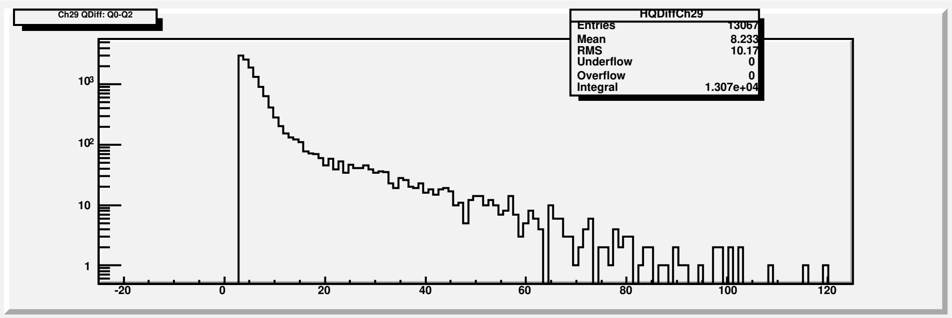

Ch23 QDiff: Q0-Q2
HQDiffCh23
Entries 6295
Mean 16.6
RMS 17.38
Underflow 0
Overflow 103
Integral 6192
10^2
10
1
-20
0
20
40
60
80
100
120

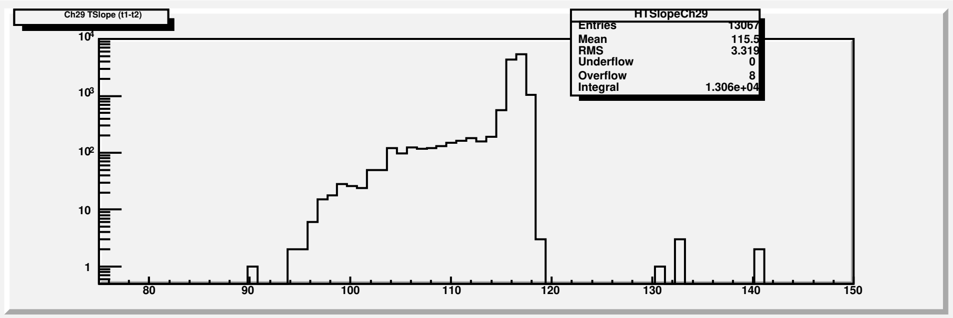

Ch23 TSlope (t1-t2)
HTSlopeCh23
Entries 6295
Mean 118.6
RMS 2.915
Underflow 0
Overflow 3
Integral 6292
10^3
10^2
10
1
80
90
100
110
120
130
140
150

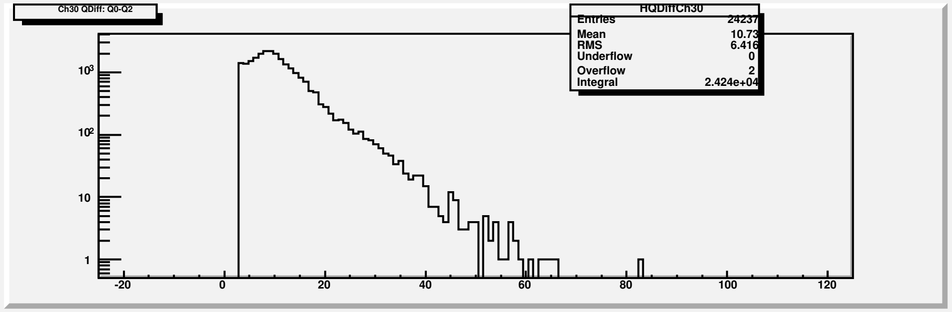

Ch24 QDiff: Q0-Q2
HQDiffCh24
Entries 6224
Mean 17.34
RMS 18.2
Underflow 0
Overflow 94
Integral 6130
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

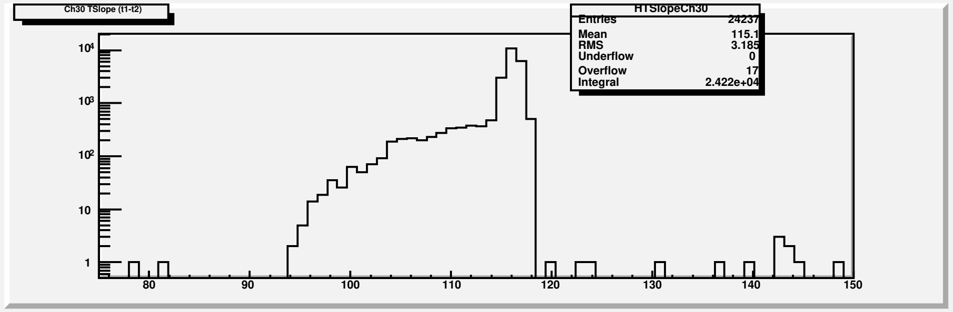

Ch24 TSlope (t1-t2)
HTSlopeCh24
Entries 6224
Mean 119.8
RMS 3.025
Underflow 0
Overflow 2
Integral 6222
10^3
10^2
10
1
80
90
100
110
120
130
140
150

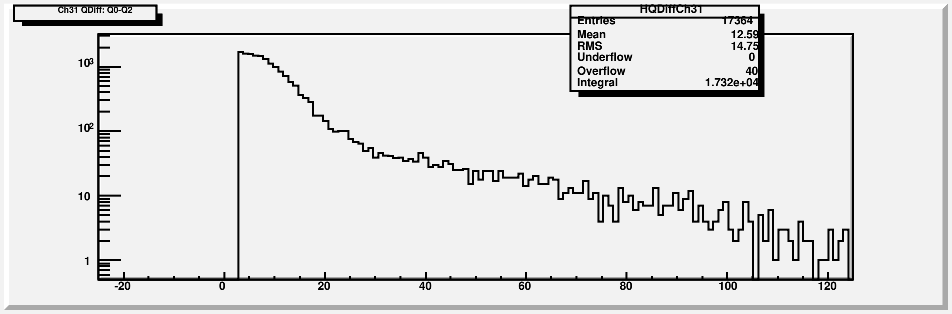

Ch25 QDiff: Q0-Q2
HQDiffCh25
Entries 410
Mean 3.917
RMS 1.207
Underflow 0
Overflow 0
Integral 410
10^2
10
1
-20
0
20
40
60
80
100
120
Ch25 TSlope (t1-t2)
HTSlopeCh25
Entries 410
Mean 115
RMS 4.652
Underflow 0
Overflow 1
Integral 409
10^2
10
1
80
90
100
110
120
130
140
150
Ch26 QDiff: Q0-Q2
HQDiffCh26
Entries 14381
Mean 17.42
RMS 17.14
Underflow 0
Overflow 268
Integral 1.411e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120
Ch26 TSlope (t1-t2)
HTSlopeCh26
Entries 14381
Mean 116
RMS 3.414
Underflow 0
Overflow 14
Integral 1.437e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150
Ch27 QDiff: Q0-Q2
HQDiffCh27
Entries 9035
Mean 8.225
RMS 9.555
Underflow 0
Overflow 0
Integral 9035
10^3
10^2
10
1
-20
0
20
40
60
80
100
120
Ch27 TSlope (t1-t2)
HTSlopeCh27
Entries 9035
Mean 118.4
RMS 3.323
Underflow 0
Overflow 8
Integral 9027
10^3
10^2
10
1
80
90
100
110
120
130
140
150
Ch28 QDiff: Q0-Q2
HQDiffCh28
Entries 18362
Mean 13.82
RMS 8.05
Underflow 0
Overflow 3
Integral 1.836e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120
Ch28 TSlope (t1-t2)
HTSlopeCh28
Entries 18362
Mean 115.7
RMS 3.328
Underflow 0
Overflow 10
Integral 1.835e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

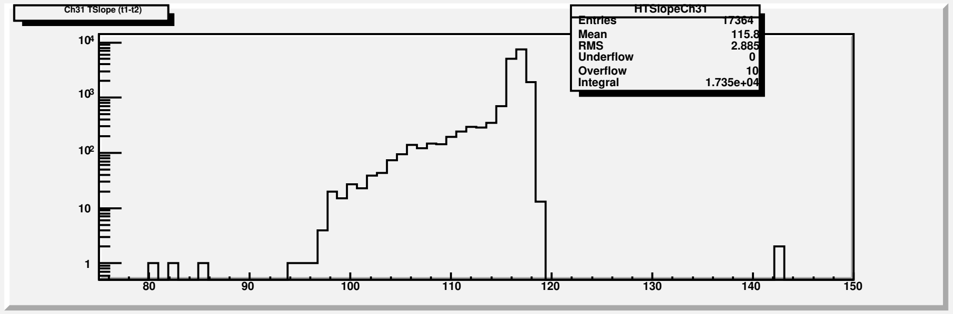

Ch29 QDiff: Q0-Q2
HQDiffCh29
Entries 13067
Mean 8.233
RMS 10.17
Underflow 0
Overflow 0
Integral 1.307e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

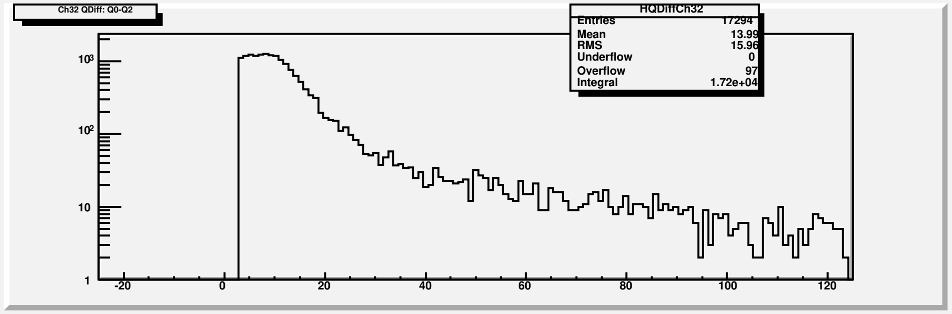

Ch29 TSlope (t1-t2)
HTSlopeCh29
Entries 13067
Mean 115.5
RMS 3.319
Underflow 0
Overflow 8
Integral 1.306e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

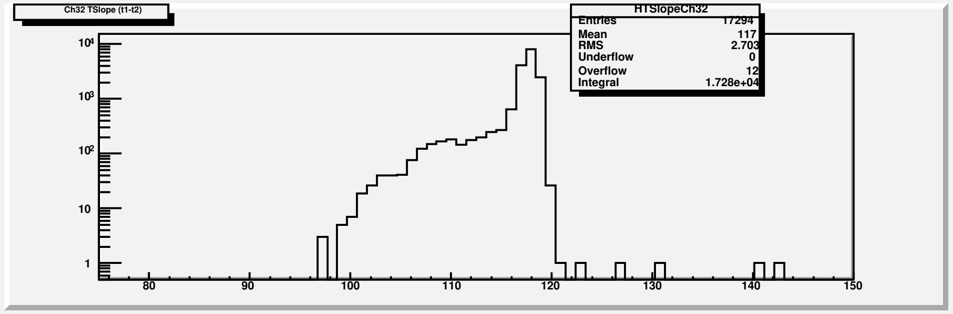

Ch30 QDiff: Q0-Q2
HQDiffCh30
Entries 24237
Mean 10.73
RMS 6.416
Underflow 0
Overflow 2
Integral 2.424e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

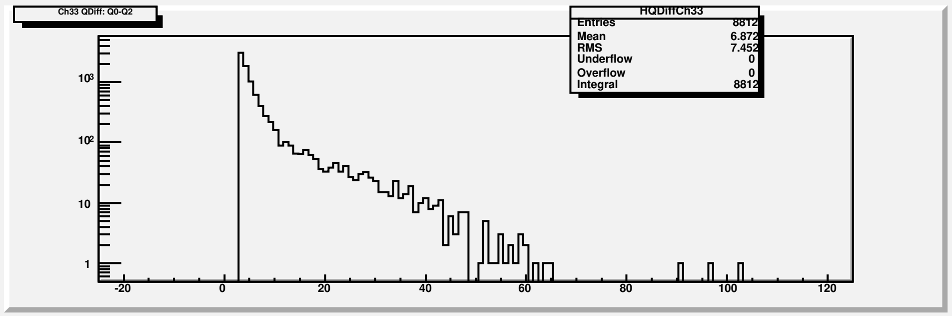

Ch30 TSlope (t1-t2)
HTSlopeCh30
Entries 24237
Mean 115.1
RMS 3.185
Underflow 0
Overflow 17
Integral 2.422e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

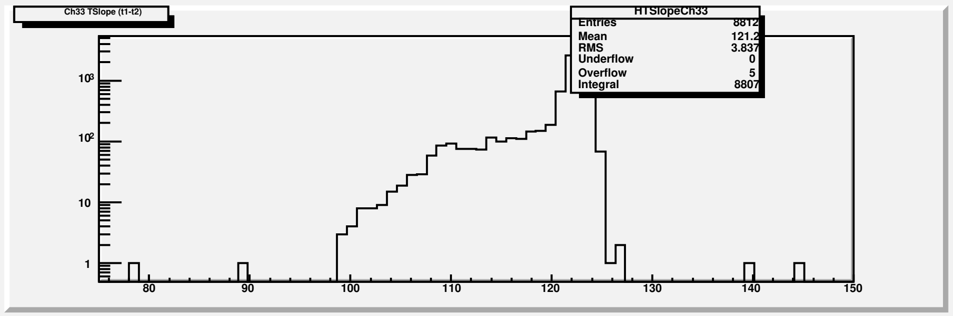

Ch31 QDiff: Q0-Q2
HQDiffCh31
Entries 17364
Mean 12.59
RMS 14.75
Underflow 0
Overflow 40
Integral 1.732e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

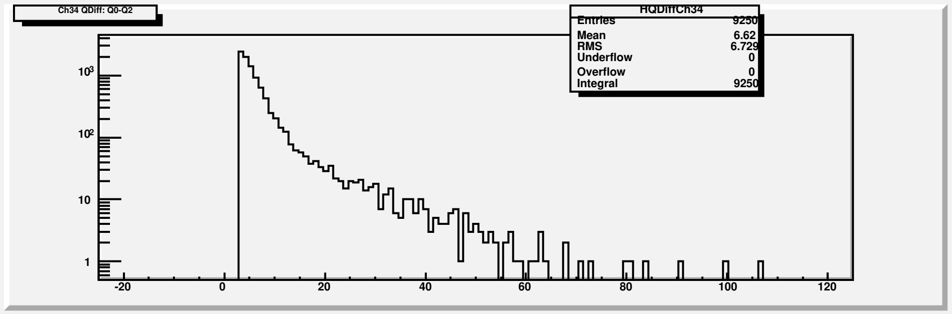

Ch31 TSlope (t1-t2)
HTSlopeCh31
Entries 17364
Mean 115.8
RMS 2.885
Underflow 0
Overflow 10
Integral 1.735e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

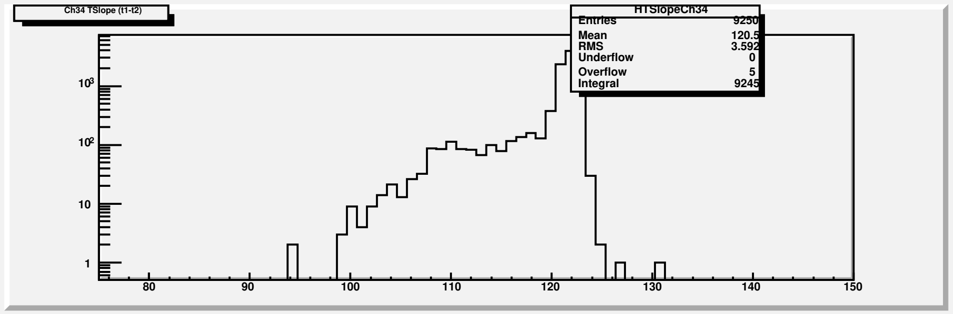

Ch32 QDiff: Q0-Q2
HQDiffCh32
Entries 17294
Mean 13.99
RMS 15.96
Underflow 0
Overflow 97
Integral 1.72e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

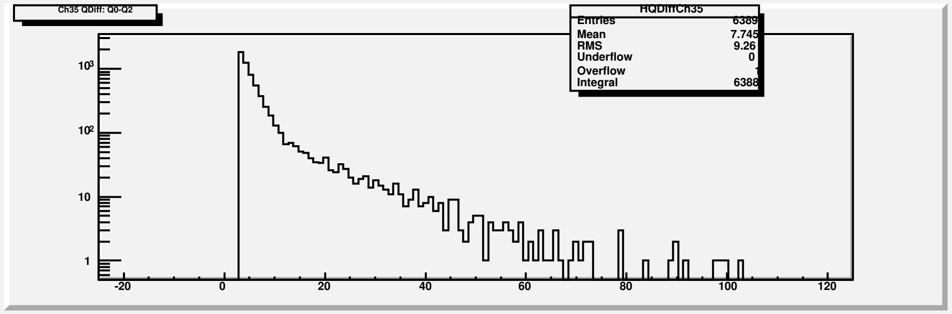

Ch32 TSlope (t1-t2)
HTSlopeCh32
Entries 17294
Mean 117
RMS 2.703
Underflow 0
Overflow 12
Integral 1.728e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

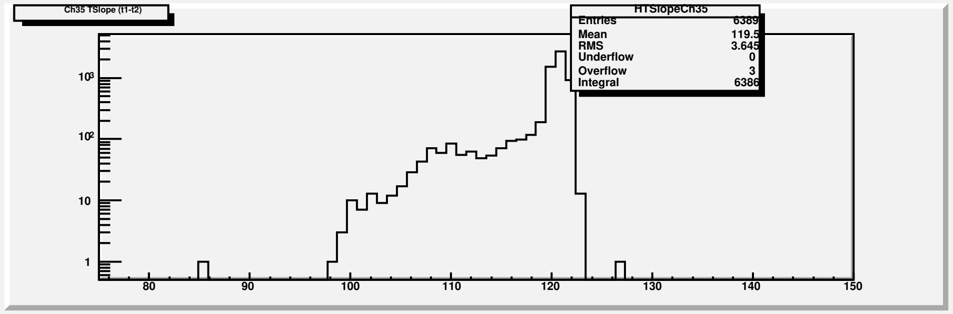

Ch33 QDiff: Q0-Q2
HQDiffCh33
Entries 8812
Mean 6.872
RMS 7.452
Underflow 0
Overflow 0
Integral 8812
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

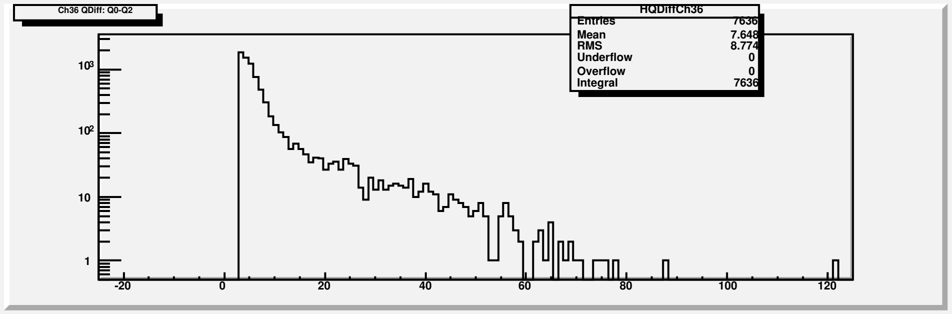

Ch33 TSlope (t1-t2)
HTSlopeCh33
Entries 8812
Mean 121.2
RMS 3.837
Underflow 0
Overflow 5
Integral 8807
10^3
10^2
10
1
80
90
100
110
120
130
140
150

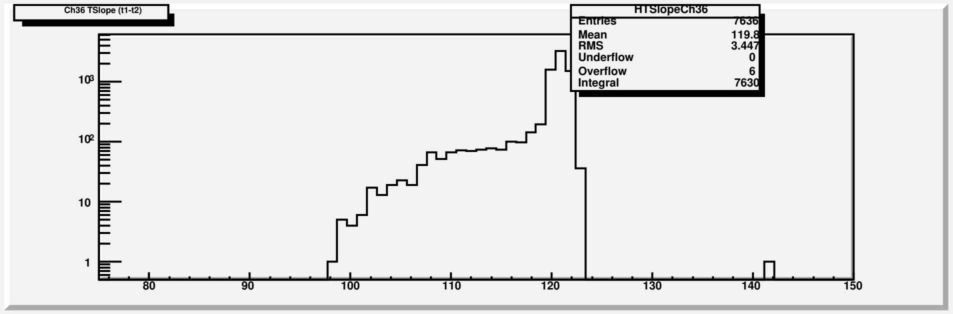

Ch34 QDiff: Q0-Q2
HQDiffCh34
Entries 9250
Mean 6.62
RMS 6.729
Underflow 0
Overflow 0
Integral 9250
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

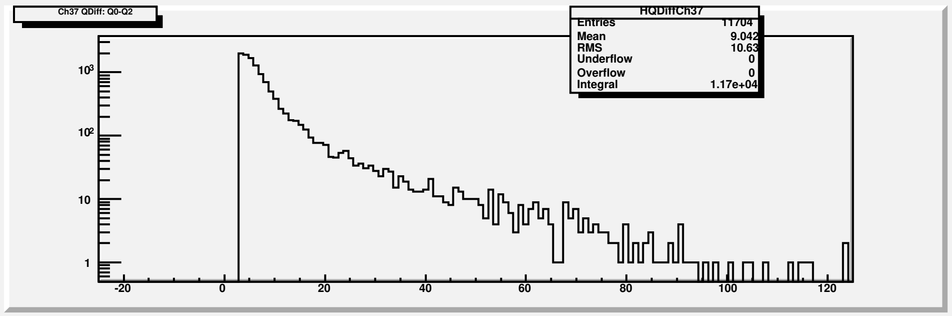

Ch34 TSlope (t1-t2)
HTSlopeCh34
Entries 9250
Mean 120.5
RMS 3.592
Underflow 0
Overflow 5
Integral 9245
10^3
10^2
10
1
80
90
100
110
120
130
140
150

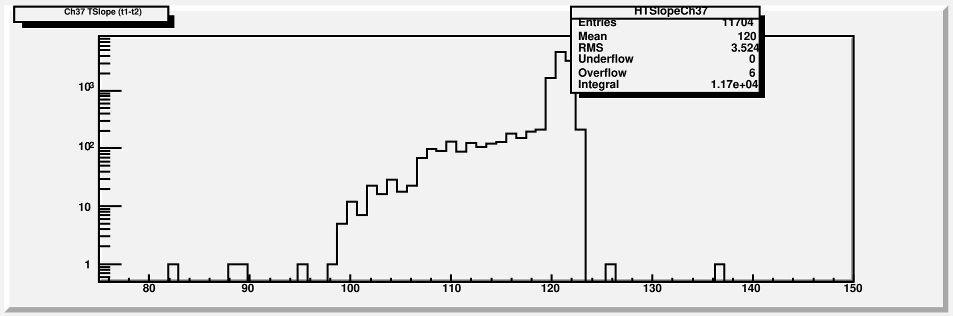

Ch35 QDiff: Q0-Q2
HQDiffCh35
Entries 6389
Mean 7.745
RMS 9.26
Underflow 0
Overflow 1
Integral 6388
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

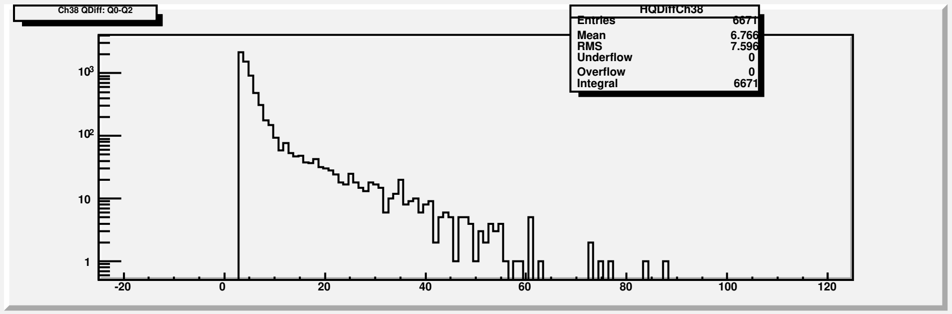

Ch35 TSlope (t1-t2)
HTSlopeCh35
Entries 6389
Mean 119.5
RMS 3.645
Underflow 0
Overflow 3
Integral 6386
10^3
10^2
10
1
80
90
100
110
120
130
140
150

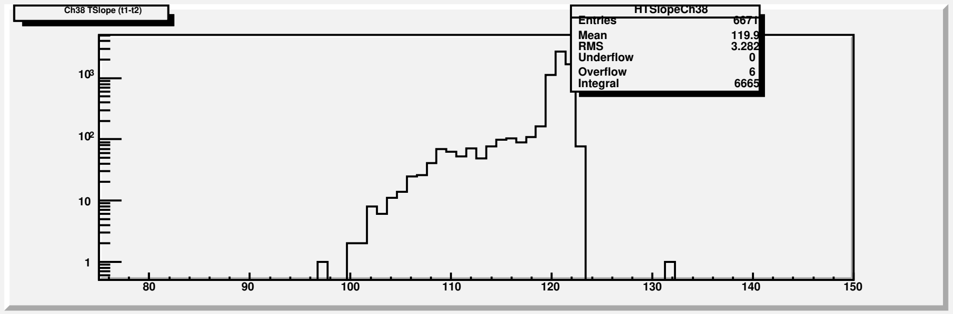

Ch36 QDiff: Q0-Q2
HQDiffCh36
Entries 7636
Mean 7.648
RMS 8.774
Underflow 0
Overflow 0
Integral 7636
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

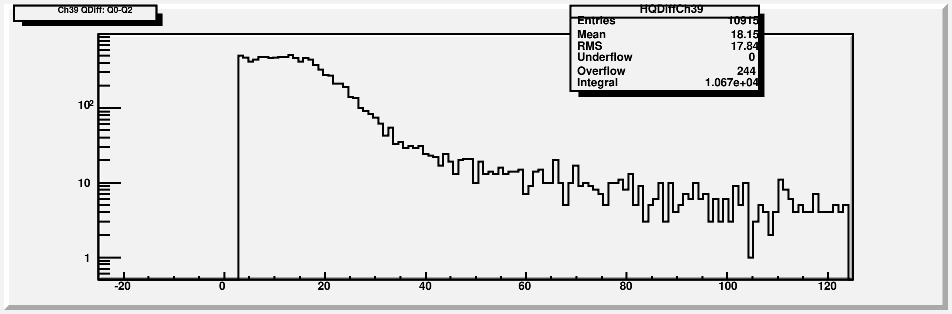

Ch36 TSlope (t1-t2)
HTSlopeCh36
Entries 7636
Mean 119.8
RMS 3.447
Underflow 0
Overflow 6
Integral 7630
10^3
10^2
10
1
80
90
100
110
120
130
140
150

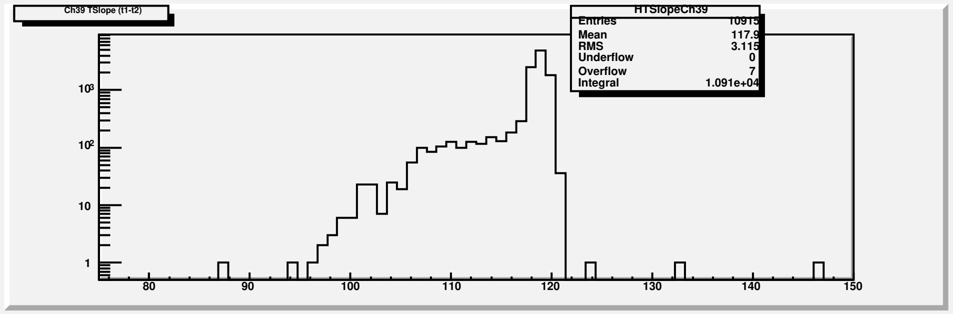

Ch37 QDiff: Q0-Q2
HQDiffCh37
Entries 11704
Mean 9.042
RMS 10.63
Underflow 0
Overflow 0
Integral 1.17e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

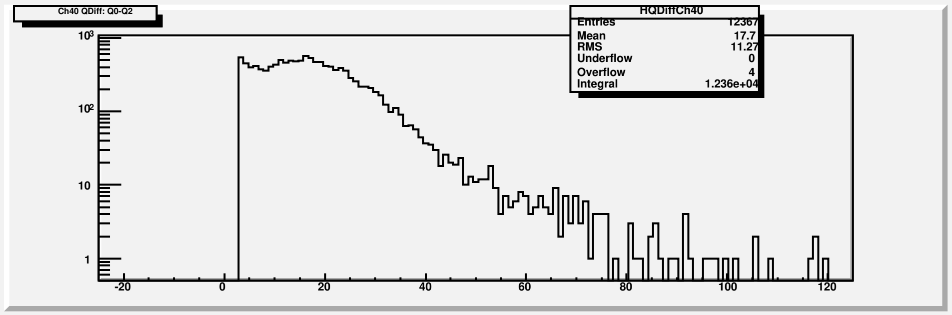

Ch37 TSlope (t1-t2)
HTSlopeCh37
Entries 11704
Mean 120
RMS 3.524
Underflow 0
Overflow 6
Integral 1.17e+04
10^3
10^2
10
1
80
90
100
110
120
130
140
150

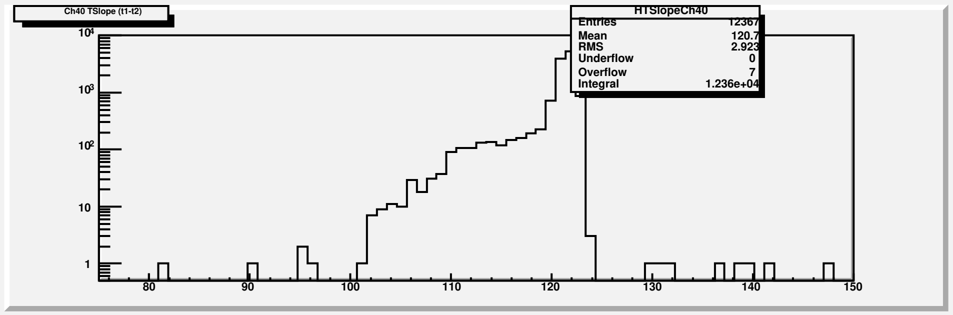

Ch38 QDiff: Q0-Q2
HQDiffCh38
Entries 6671
Mean 6.766
RMS 7.596
Underflow 0
Overflow 0
Integral 6671
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

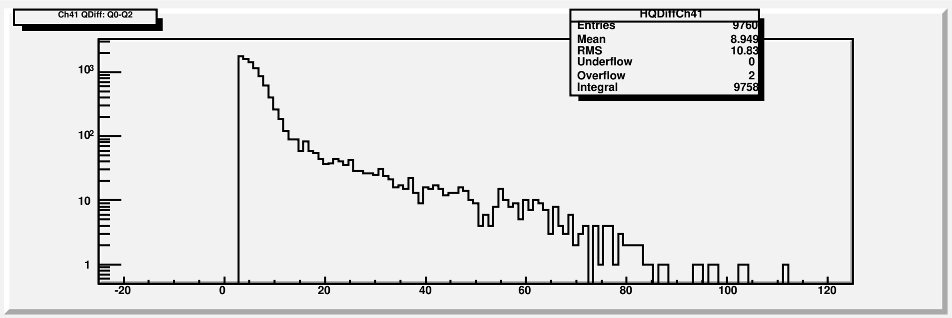

Ch38 TSlope (t1-t2)
HTSlopeCh38
Entries 6671
Mean 119.9
RMS 3.282
Underflow 0
Overflow 6
Integral 6665
10^3
10^2
10
1
80
90
100
110
120
130
140
150

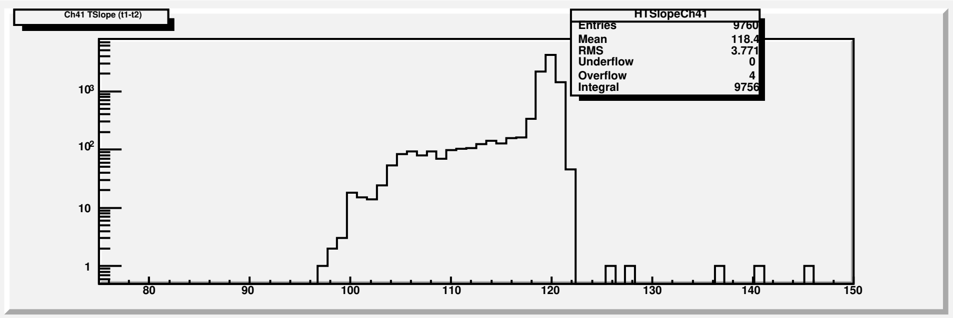

Ch39 QDiff: Q0-Q2
HQDiffCh39
Entries 10915
Mean 18.15
RMS 17.84
Underflow 0
Overflow 244
Integral 1.067e+04
10^2
10
1
-20
0
20
40
60
80
100
120

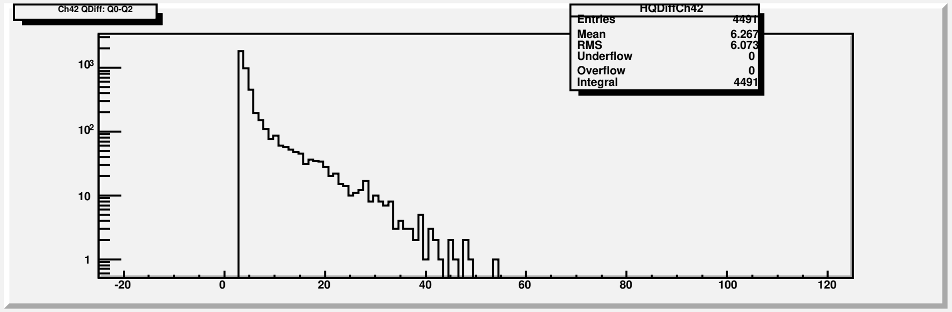

Ch39 TSlope (t1-t2)
HTSlopeCh39
Entries 10915
Mean 117.9
RMS 3.115
Underflow 0
Overflow 7
Integral 1.091e+04
10^3
10^2
10
1
80
90
100
110
120
130
140
150

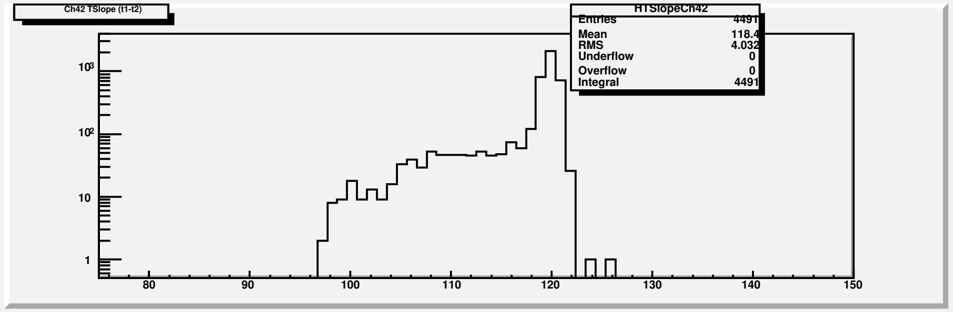

Ch40 QDiff: Q0-Q2
HQDiffCh40
Entries 12367
Mean 17.7
RMS 11.27
Underflow 0
Overflow 4
Integral 1.236e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

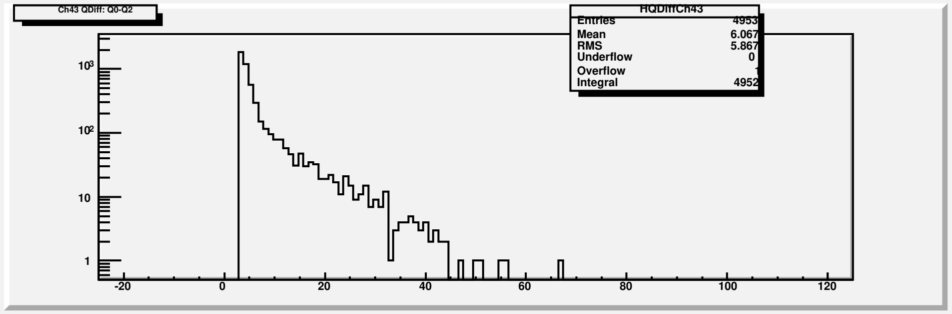

Ch40 TSlope (t1-t2)
HTSlopeCh40
Entries 12367
Mean 120.7
RMS 2.923
Underflow 0
Overflow 7
Integral 1.236e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

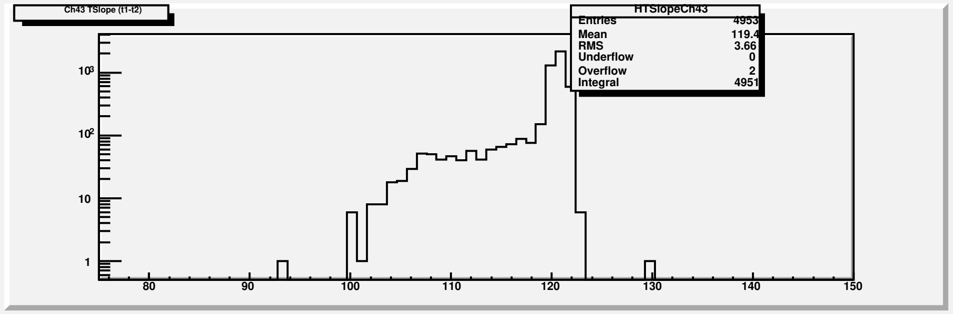

Ch41 QDiff: Q0-Q2
HQDiffCh41
Entries 9760
Mean 8.949
RMS 10.83
Underflow 0
Overflow 2
Integral 9758
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

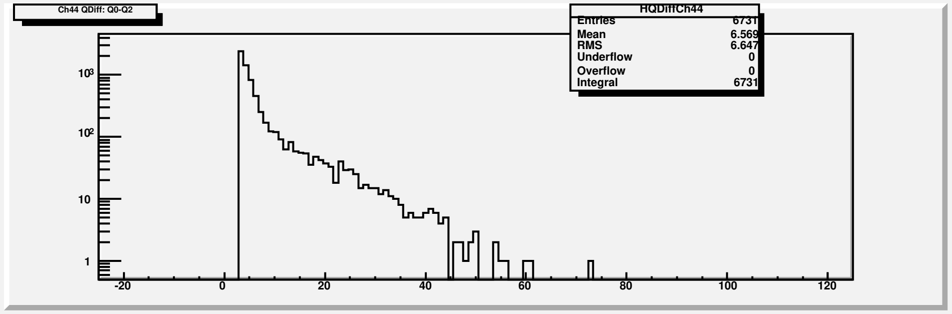

Ch41 TSlope (t1-t2)
HTSlopeCh41
Entries 9760
Mean 118.4
RMS 3.771
Underflow 0
Overflow 4
Integral 9756
10^3
10^2
10
1
80
90
100
110
120
130
140
150

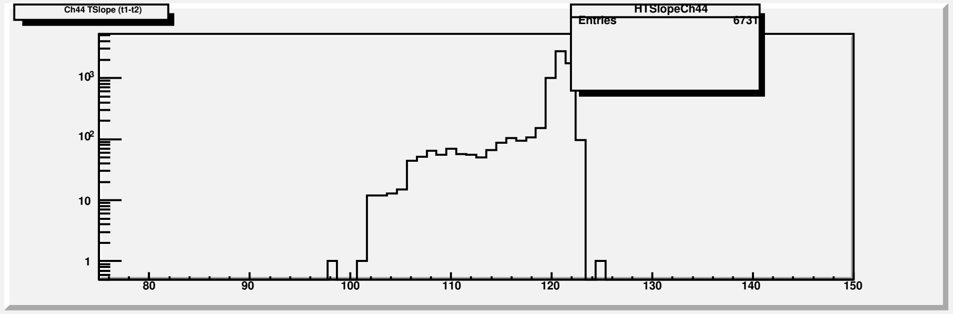

Ch42 QDiff: Q0-Q2
HQDiffCh42
Entries 4491
Mean 6.267
RMS 6.073
Underflow 0
Overflow 0
Integral 4491
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch42 TSlope (t1-t2)
HTSlopeCh42
Entries 4491
Mean 118.4
RMS 4.032
Underflow 0
Overflow 0
Integral 4491
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch43 QDiff: Q0-Q2
HQDiffCh43
Entries 4953
Mean 6.067
RMS 5.867
Underflow 0
Overflow 1
Integral 4952
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch43 TSlope (t1-t2)
HTSlopeCh43
Entries 4953
Mean 119.4
RMS 3.66
Underflow 0
Overflow 2
Integral 4951
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch44 QDiff: Q0-Q2
HQDiffCh44
Entries 6731
Mean 6.569
RMS 6.647
Underflow 0
Overflow 0
Integral 6731
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch44 TSlope (t1-t2)
HTSlopeCh44
Entries 6731
10^3
10^2
10
1
80
90
100
110
120
130
140
150