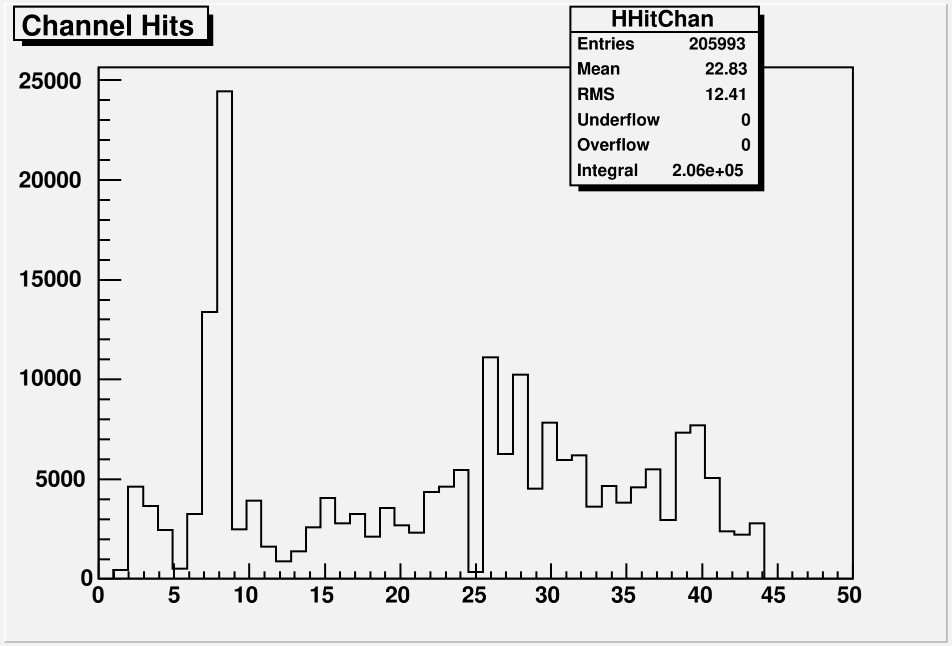
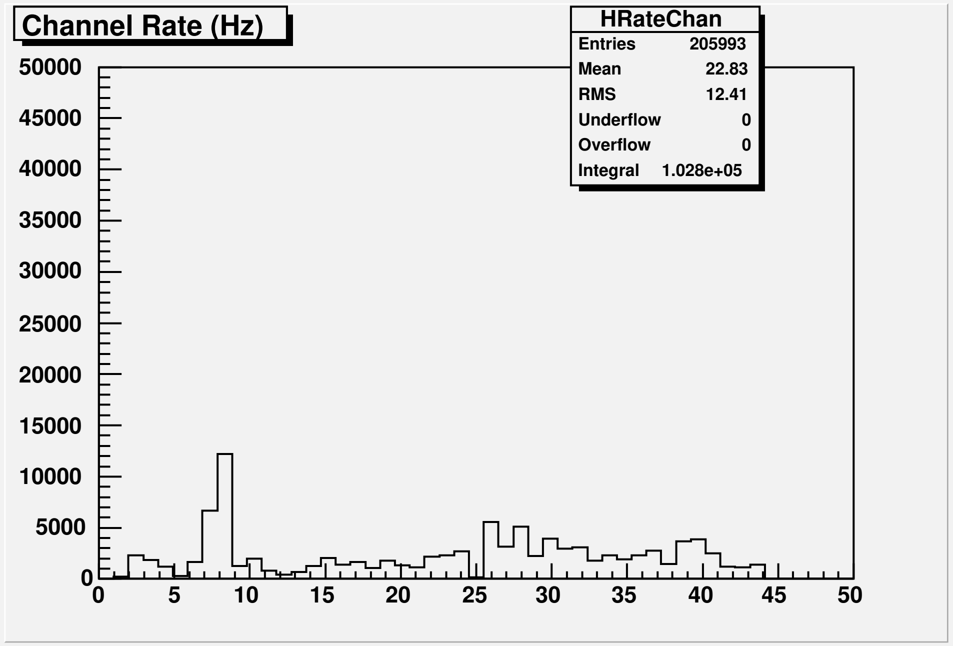
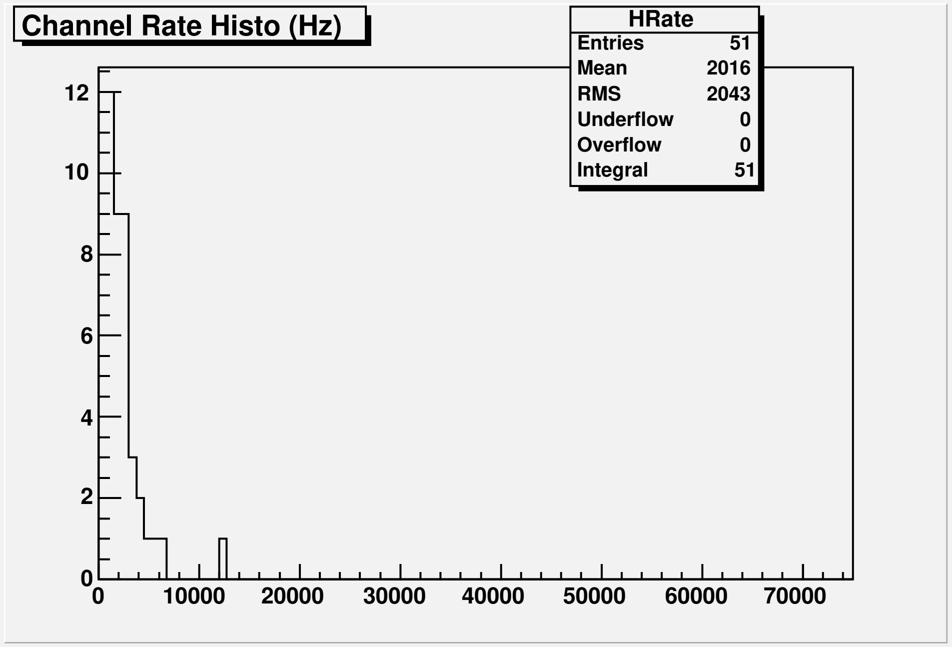
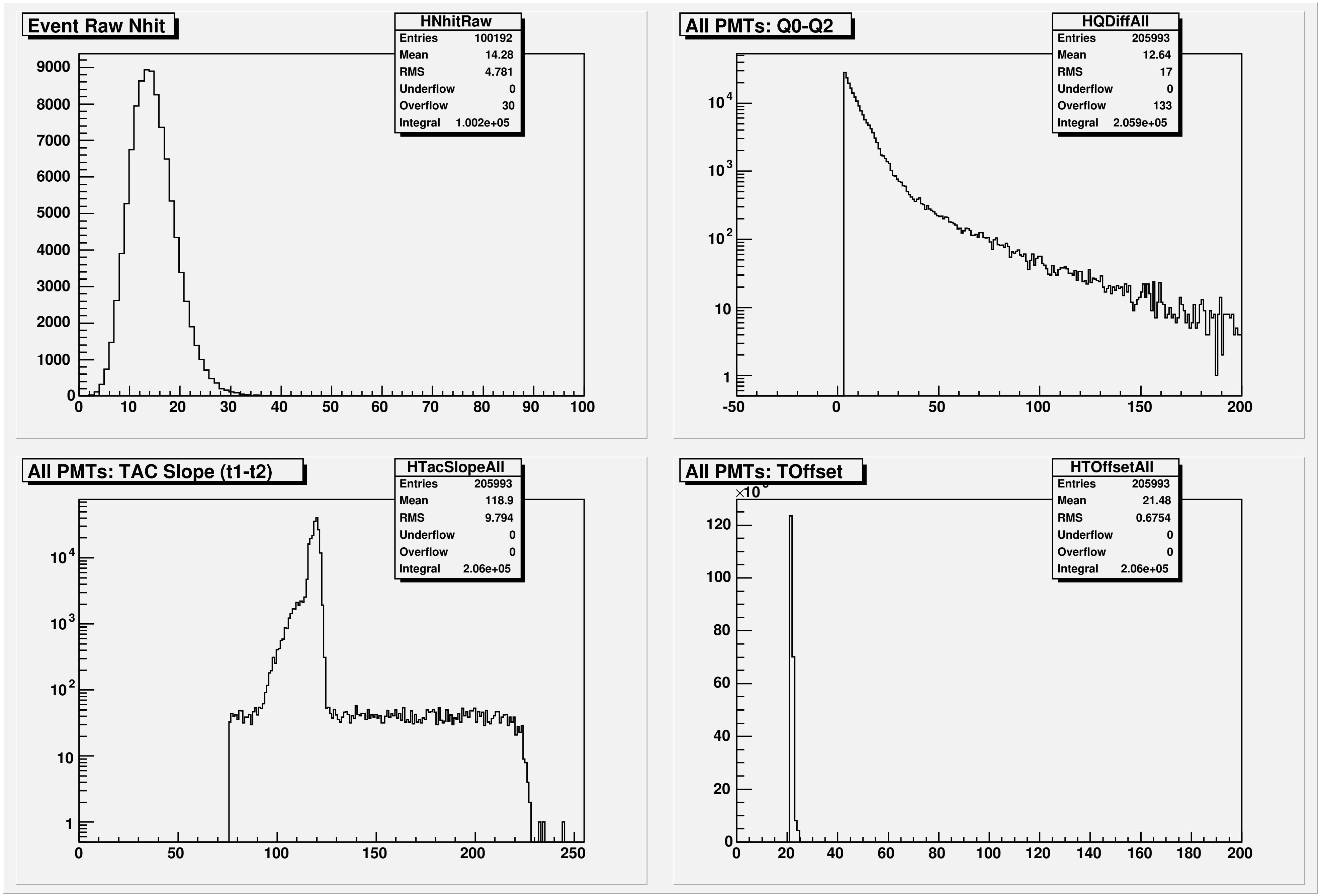
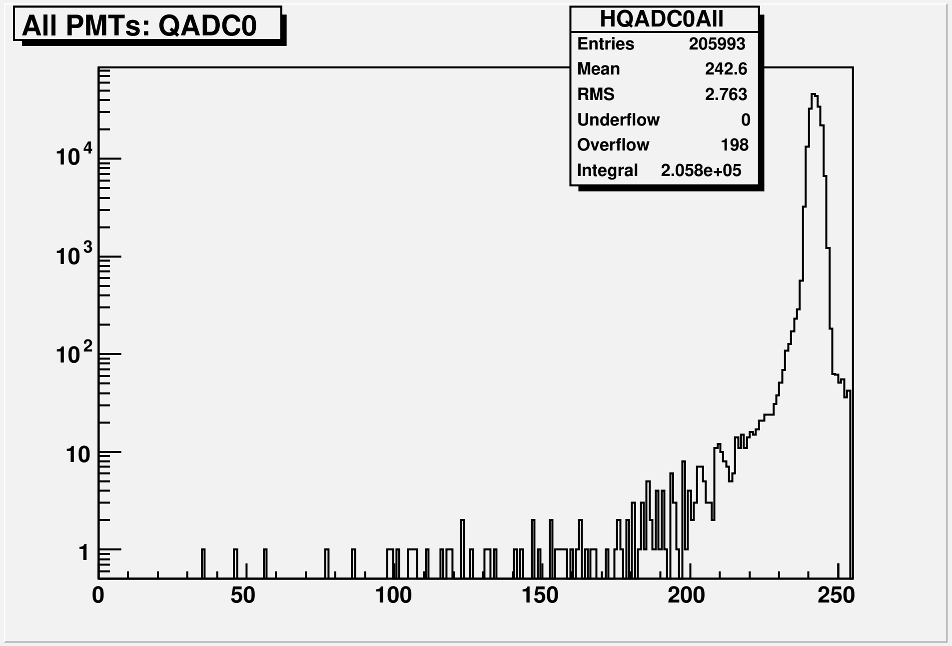
RUN: VlandUnCal Run11491 LEDTCut-QCut


Channel Hits
HHitChan
Entries 205993
Mean 22.83
RMS 12.41
Underflow 0
Overflow 0
Integral 2.06e+05
25000
20000
15000
10000
5000
0
0
5
10
15
20
25
30
35
40
45
50


Channel Rate (Hz)
HRateChan
Entries 205993
Mean 22.83
RMS 12.41
Underflow 0
Overflow 0
Integral 1.028e+05
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
5
10
15
20
25
30
35
40
45
50

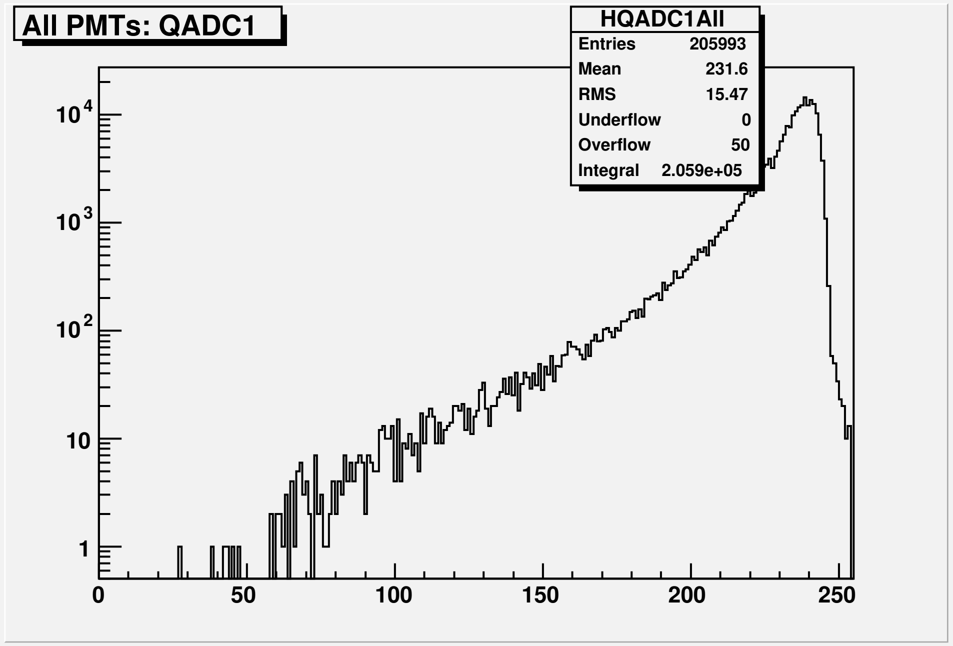

Channel Rate Histo (Hz)
HRate
Entries 51
Mean 2016
RMS 2043
Underflow 0
Overflow 0
Integral 51
12
10
8
6
4
2
0
0
10000
20000
30000
40000
50000
60000
70000


Event Raw Nhit
HNhitRaw
Entries 100192
Mean 14.28
RMS 4.781
Underflow 0
Overflow 30
Integral 1.002e+05
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 10 20 30 40 50 60 70 80 90 100
All PMTs: Q0-Q2
HQDiffAll
Entries 205993
Mean 12.64
RMS 17
Underflow 0
Overflow 133
Integral 2.059e+05
10^4
10^3
10^2
10
1
-50 0 50 100 150 200
All PMTs: TAC Slope (t1-t2)
HTacSlopeAll
Entries 205993
Mean 118.9
RMS 9.794
Underflow 0
Overflow 0
Integral 2.06e+05
10^4
10^3
10^2
10
1
0 50 100 150 200 250
All PMTs: TOffset
HTOffsetAll
Entries 205993
Mean 21.48
RMS 0.6754
Underflow 0
Overflow 0
Integral 2.06e+05
×10
120
100
80
60
40
20
0
0 20 40 60 80 100 120 140 160 180 200



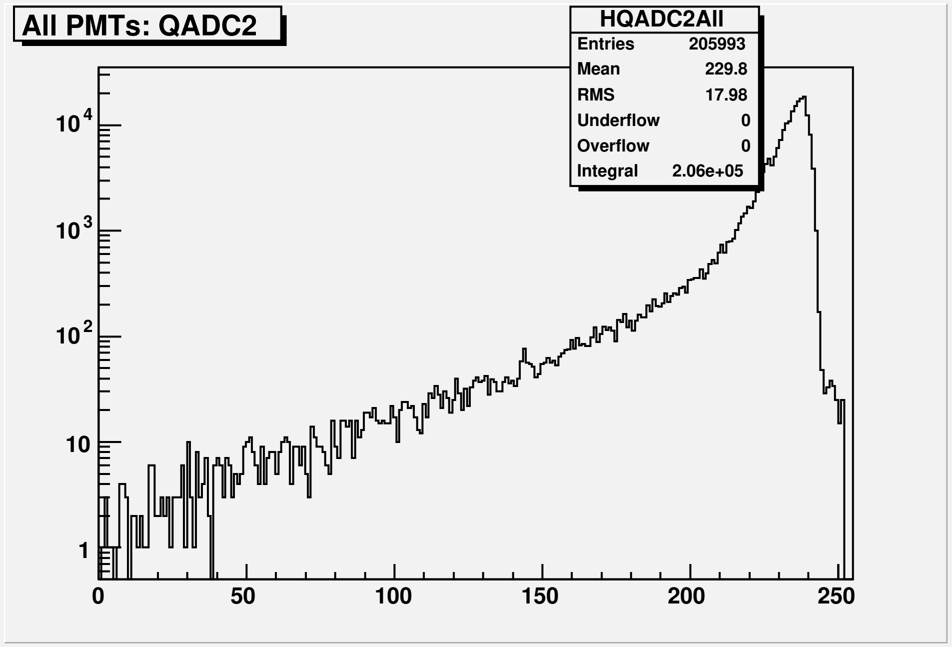
All PMTs: QADC0

HQADC0All	
Entries	205993
Mean	242.6
RMS	2.763
Underflow	0
Overflow	198
Integral	2.058e+05



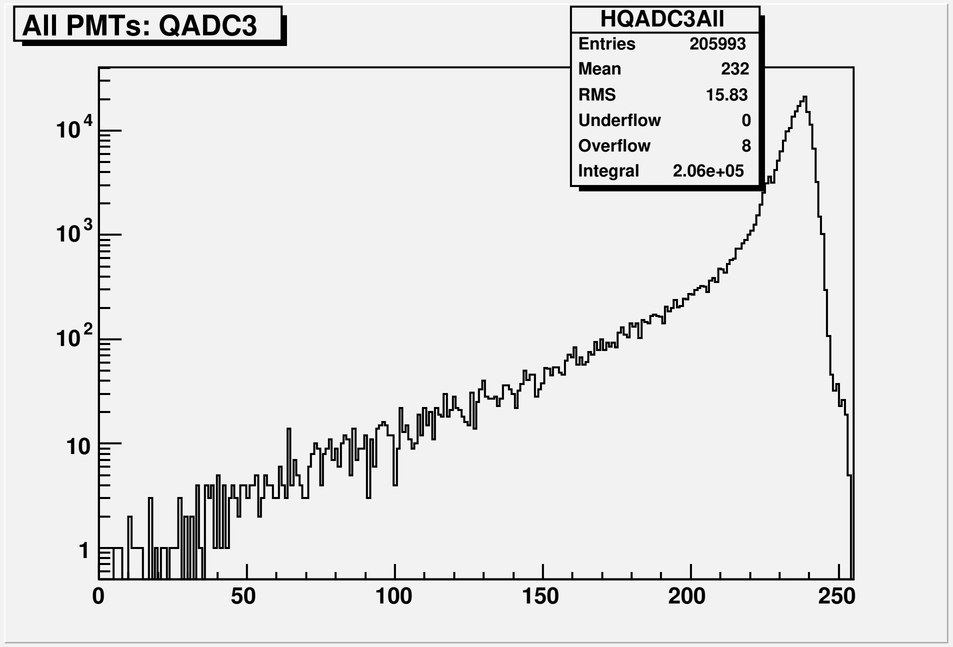
All PMTs: QADC1

HQADC1All	
Entries	205993
Mean	231.6
RMS	15.47
Underflow	0
Overflow	50
Integral	2.059e+05



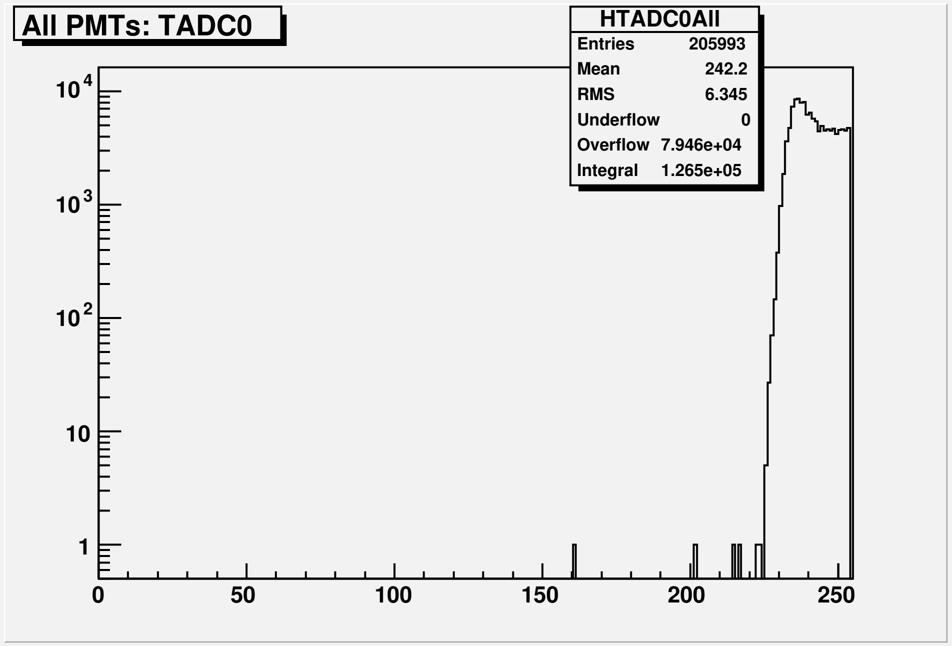
All PMTs: QADC2

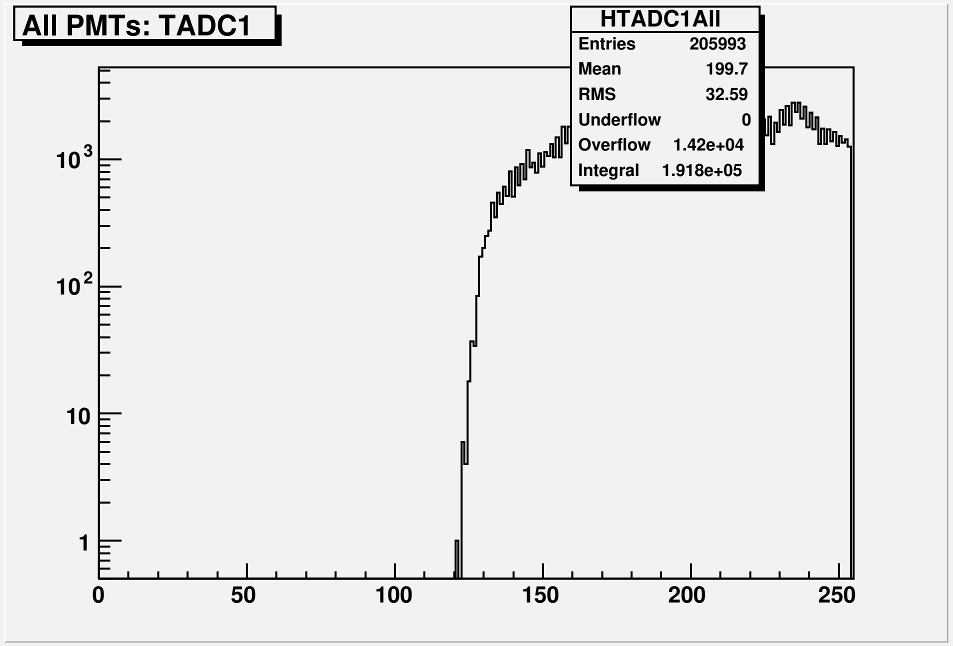
HQADC2All	
Entries	205993
Mean	229.8
RMS	17.98
Underflow	0
Overflow	0
Integral	2.06e+05

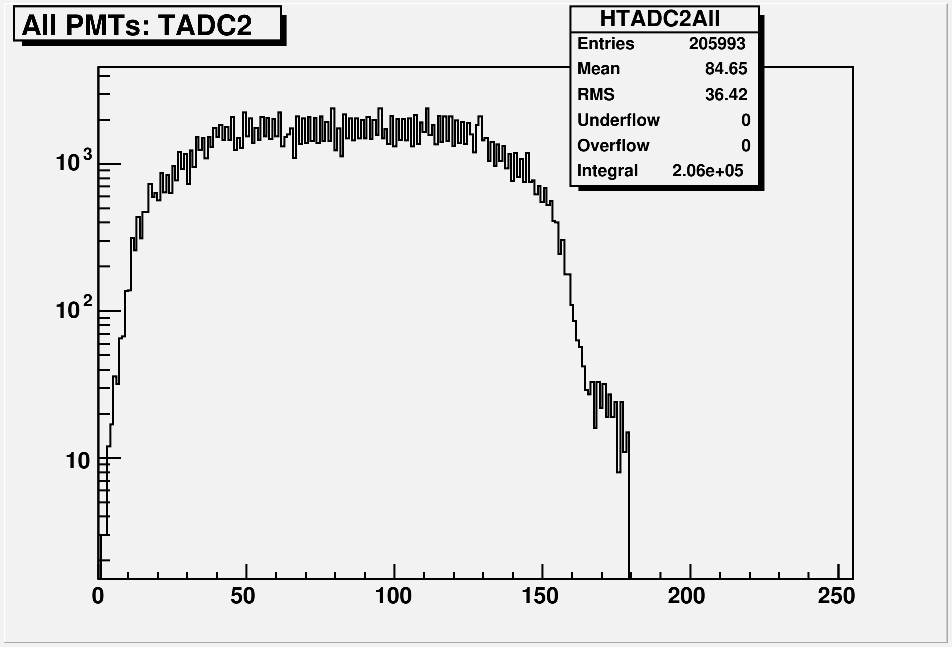


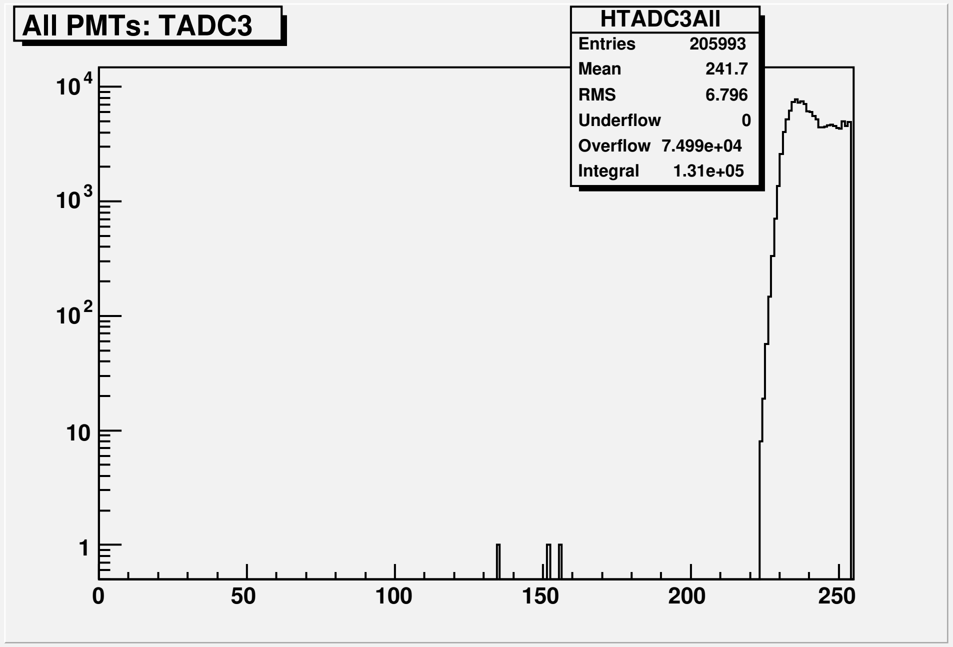
All PMTs: QADC3

HQADC3All	
Entries	205993
Mean	232
RMS	15.83
Underflow	0
Overflow	8
Integral	2.06e+05

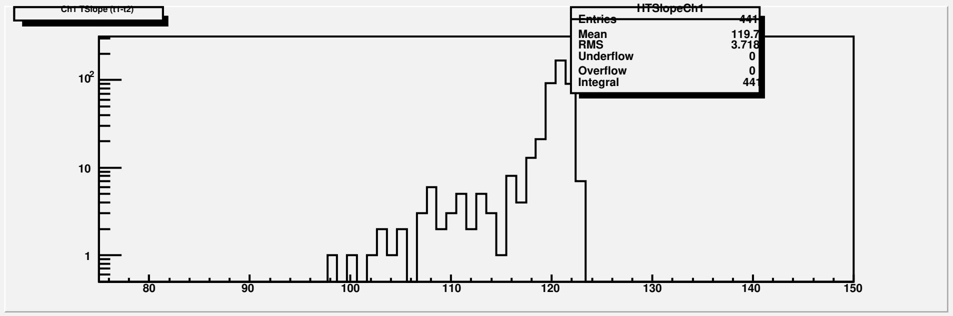

All PMTs: TADC0

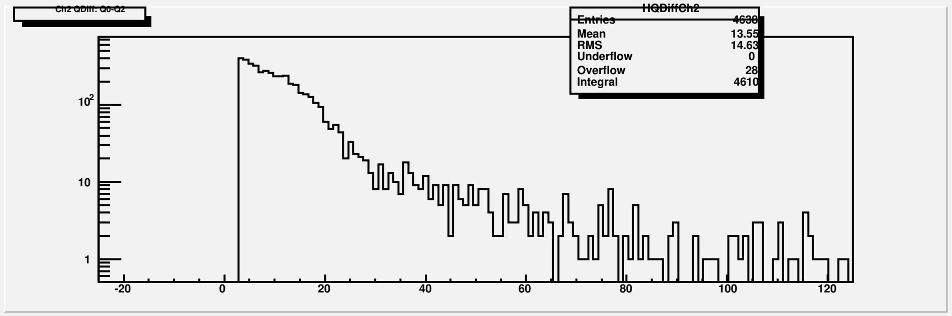

All PMTs: TADC1

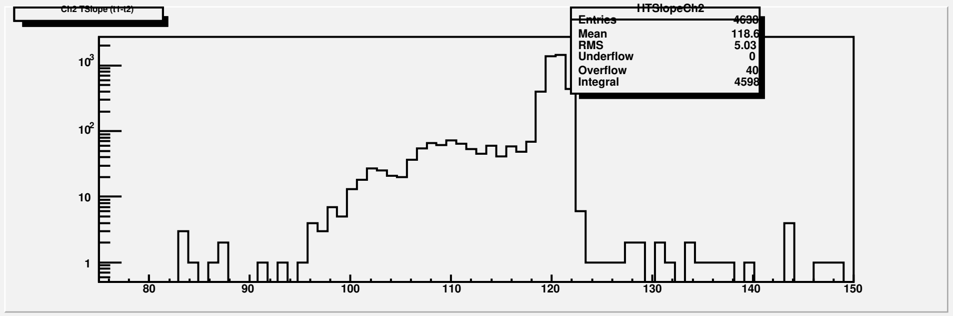

All PMTs: TADC2

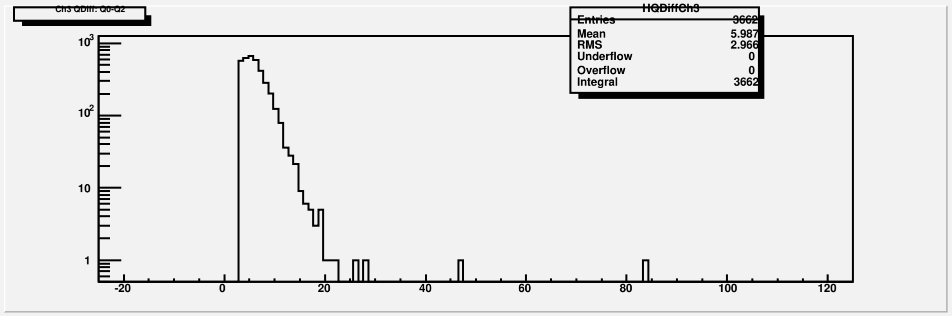

All PMTs: TADC3

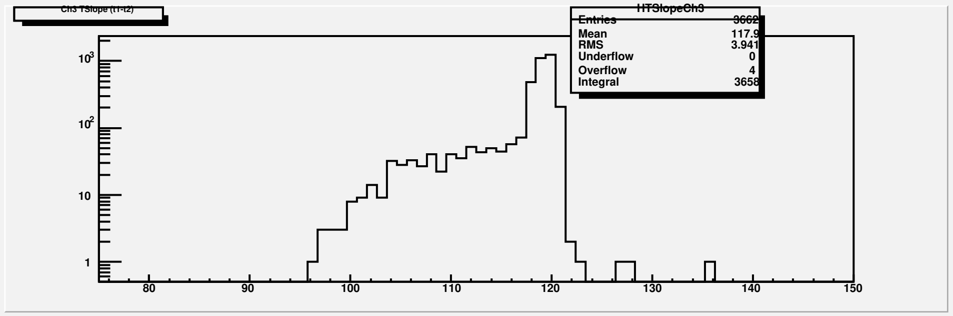

Ch1 QDiff: Q0-Q2
HQDiffCh1
Entries 441
Mean 4.458
RMS 3.444
Underflow 0
Overflow 0
Integral 441
10^2
10
1
-20
0
20
40
60
80
100
120

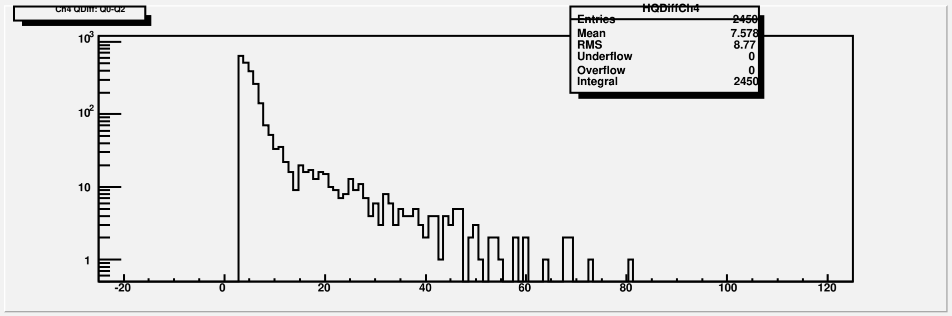

Ch1 TSlope (t1-t2)
HTSlopeCh1
Entries 441
Mean 119.7
RMS 3.718
Underflow 0
Overflow 0
Integral 441
10^2
10
1
80
90
100
110
120
130
140
150

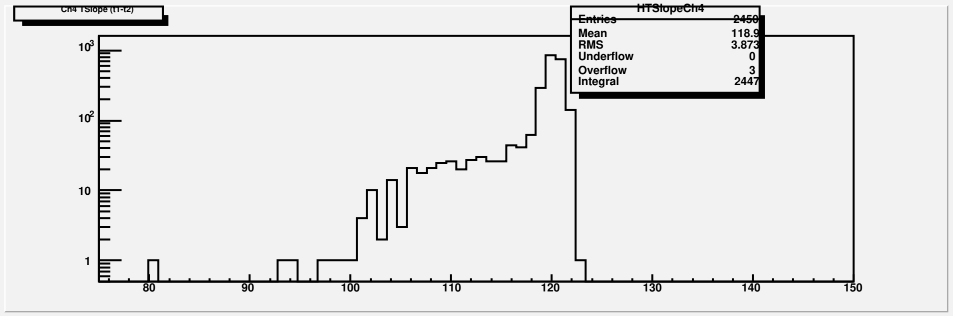

Ch2 QDiff: Q0-Q2
HQDiffCh2
Entries 4638
Mean 13.55
RMS 14.63
Underflow 0
Overflow 28
Integral 4610
10^2
10
1
-20
0
20
40
60
80
100
120

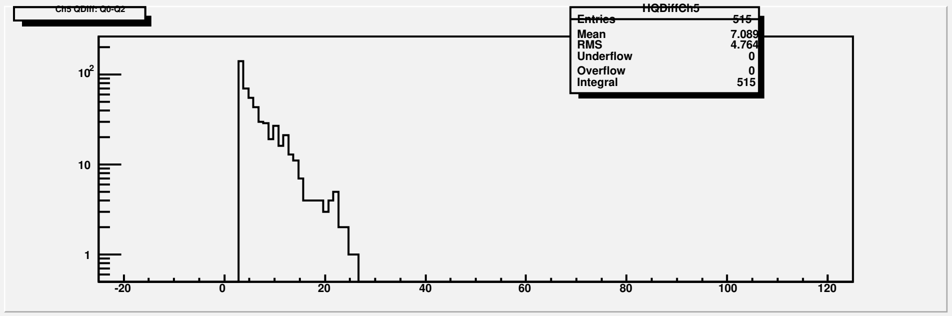

Ch2 TSlope (t1-t2)
HTSlopeCh2
Entries 4638
Mean 118.6
RMS 5.03
Underflow 0
Overflow 40
Integral 4598
10^3
10^2
10
1
80
90
100
110
120
130
140
150

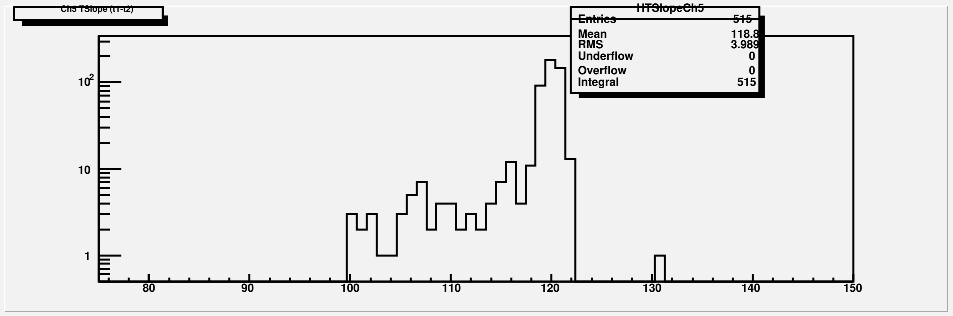

Ch3 QDiff: Q0-Q2
HQDiffCh3
Entries 3662
Mean 5.987
RMS 2.966
Underflow 0
Overflow 0
Integral 3662
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

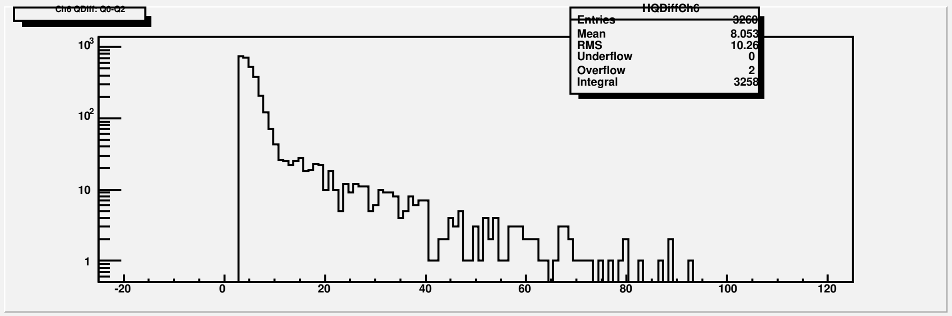

Ch3 TSlope (t1-t2)
HTSlopeCh3
Entries 3662
Mean 117.9
RMS 3.941
Underflow 0
Overflow 4
Integral 3658
10^3
10^2
10
1
80
90
100
110
120
130
140
150

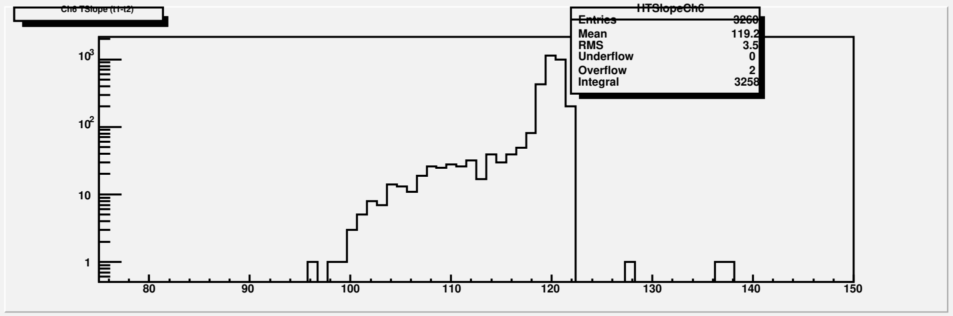

Ch4 QDiff: Q0-Q2
HQDiffCh4
Entries 2450
Mean 7.578
RMS 8.77
Underflow 0
Overflow 0
Integral 2450
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

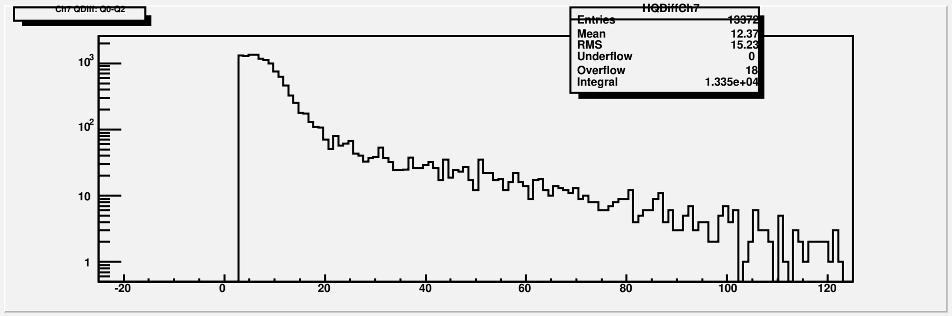

Ch4 TSlope (t1-t2)
HTSlopeCh4
Entries 2450
Mean 118.9
RMS 3.873
Underflow 0
Overflow 3
Integral 2447
10^3
10^2
10
1
80
90
100
110
120
130
140
150

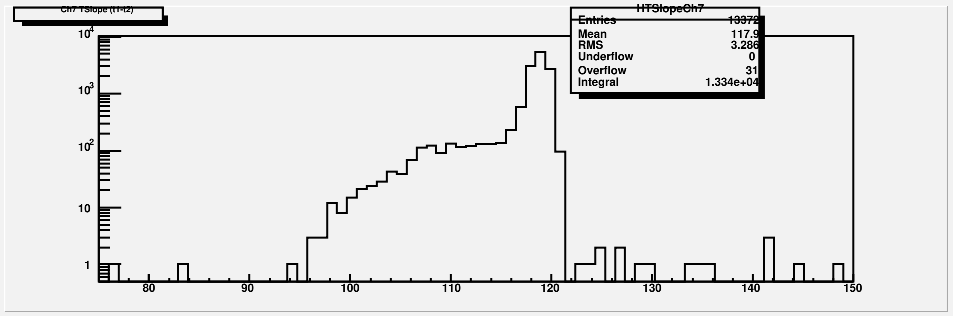

Ch5 QDiff: Q0-Q2
HQDiffCh5
Entries 515
Mean 7.089
RMS 4.764
Underflow 0
Overflow 0
Integral 515
10^2
10
1
-20
0
20
40
60
80
100
120

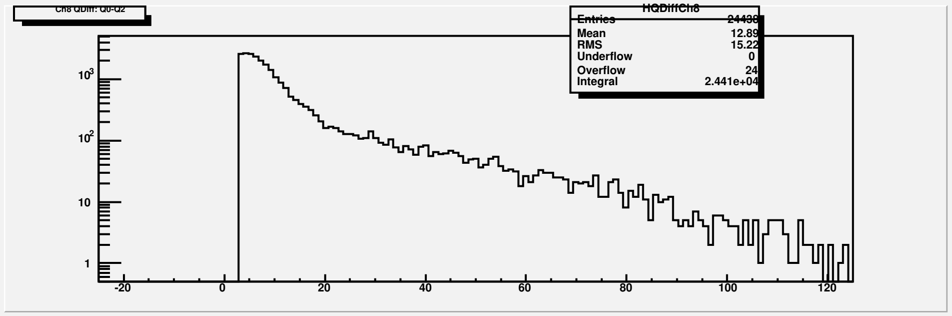

Ch5 TSlope (t1-t2)
HTSlopeCh5
Entries 515
Mean 118.8
RMS 3.989
Underflow 0
Overflow 0
Integral 515
10^2
10
1
80
90
100
110
120
130
140
150

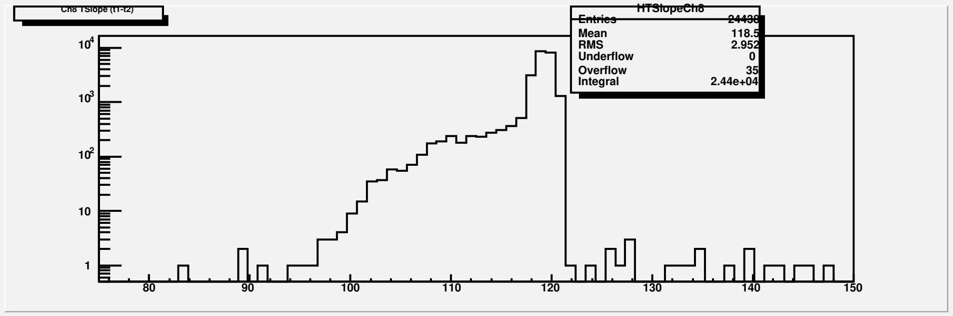

Ch6 QDiff: Q0-Q2
HQDiffCh6
Entries 3260
Mean 8.053
RMS 10.26
Underflow 0
Overflow 2
Integral 3258
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

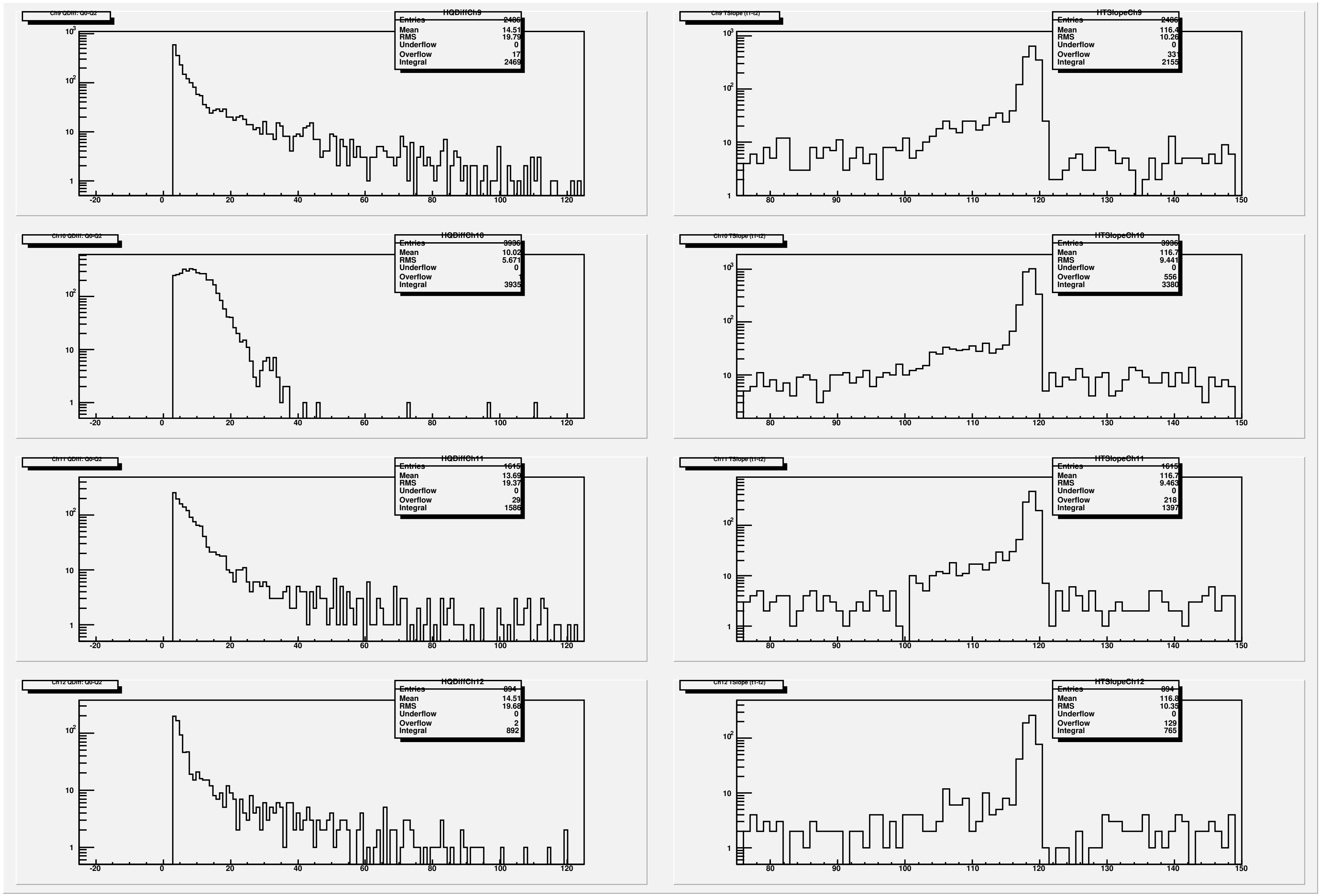

Ch6 TSlope (t1-t2)
HTSlopeCh6
Entries 3260
Mean 119.2
RMS 3.5
Underflow 0
Overflow 2
Integral 3258
10^3
10^2
10
1
80
90
100
110
120
130
140
150

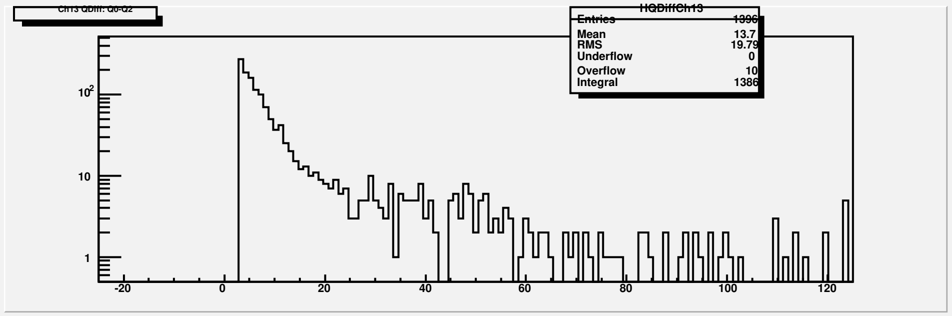

Ch7 QDiff: Q0-Q2
HQDiffCh7
Entries 13372
Mean 12.37
RMS 15.23
Underflow 0
Overflow 18
Integral 1.335e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

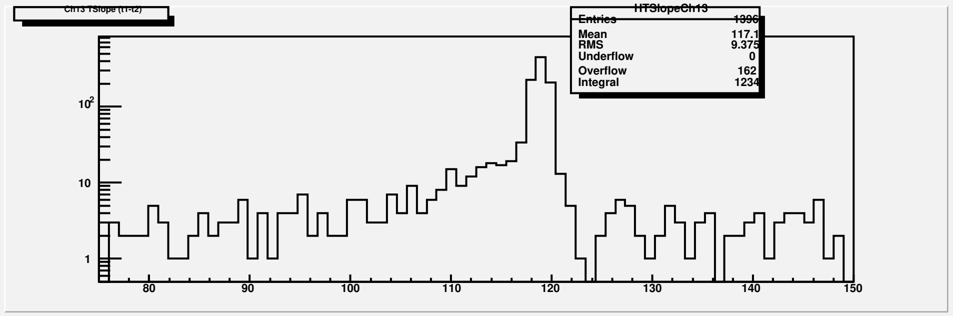

Ch7 TSlope (t1-t2)
HTSlopeCh7
Entries 13372
Mean 117.9
RMS 3.286
Underflow 0
Overflow 31
Integral 1.334e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

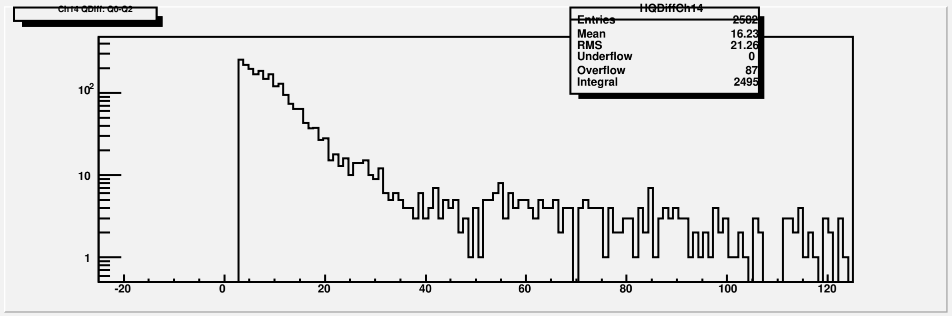

Ch8 QDiff: Q0-Q2
HQDiffCh8
Entries 24436
Mean 12.89
RMS 15.22
Underflow 0
Overflow 24
Integral 2.441e+04
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

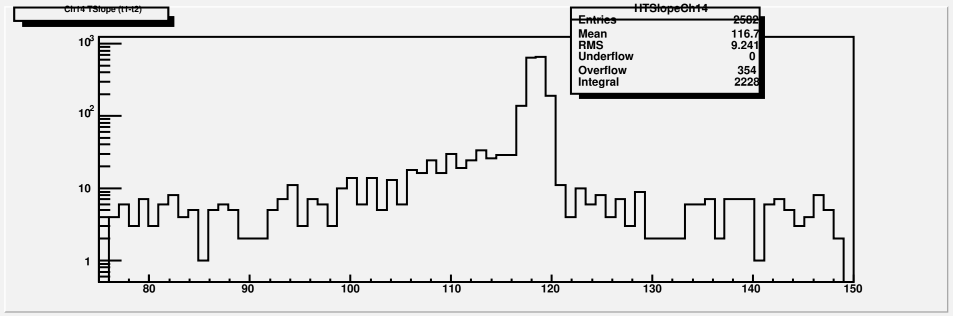

Ch8 TSlope (t1-t2)
HTSlopeCh8
Entries 24436
Mean 118.5
RMS 2.952
Underflow 0
Overflow 35
Integral 2.44e+04
10^4
10^3
10^2
10
1
80
90
100
110
120
130
140
150

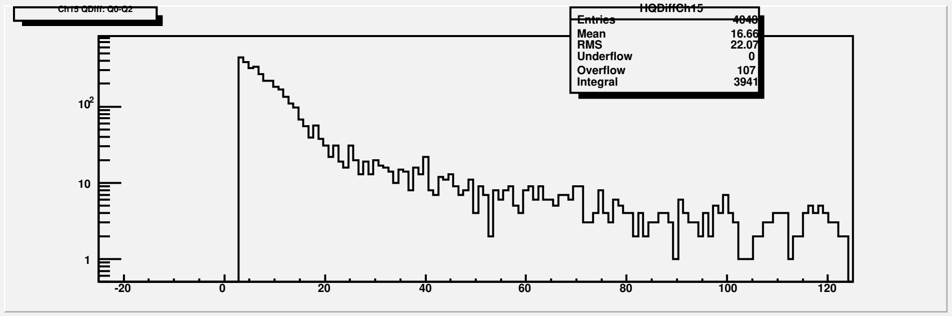

Ch9 QDiff: Q0-Q2
HQDiffCh9
Entries 2486
Mean 14.51
RMS 19.79
Underflow 0
Overflow 17
Integral 2469
10^3
10^2
10
1
-20
0
20
40
60
80
100
120
Ch9 TSlope (t1-t2)
HTSlopeCh9
Entries 2486
Mean 116.4
RMS 10.26
Underflow 0
Overflow 331
Integral 2155
10^3
10^2
10
1
80
90
100
110
120
130
140
150
Ch10 QDiff: Q0-Q2
HQDiffCh10
Entries 3936
Mean 10.02
RMS 5.671
Underflow 0
Overflow 1
Integral 3935
10^2
10
1
-20
0
20
40
60
80
100
120
Ch10 TSlope (t1-t2)
HTSlopeCh10
Entries 3936
Mean 116.7
RMS 9.441
Underflow 0
Overflow 556
Integral 3380
10^3
10^2
10
80
90
100
110
120
130
140
150
Ch11 QDiff: Q0-Q2
HQDiffCh11
Entries 1615
Mean 13.69
RMS 19.37
Underflow 0
Overflow 29
Integral 1586
10^2
10
1
-20
0
20
40
60
80
100
120
Ch11 TSlope (t1-t2)
HTSlopeCh11
Entries 1615
Mean 116.7
RMS 9.463
Underflow 0
Overflow 218
Integral 1397
10^2
10
1
80
90
100
110
120
130
140
150
Ch12 QDiff: Q0-Q2
HQDiffCh12
Entries 894
Mean 14.51
RMS 19.68
Underflow 0
Overflow 2
Integral 892
10^2
10
1
-20
0
20
40
60
80
100
120
Ch12 TSlope (t1-t2)
HTSlopeCh12
Entries 894
Mean 116.8
RMS 10.35
Underflow 0
Overflow 129
Integral 765
10^2
10
1
80
90
100
110
120
130
140
150

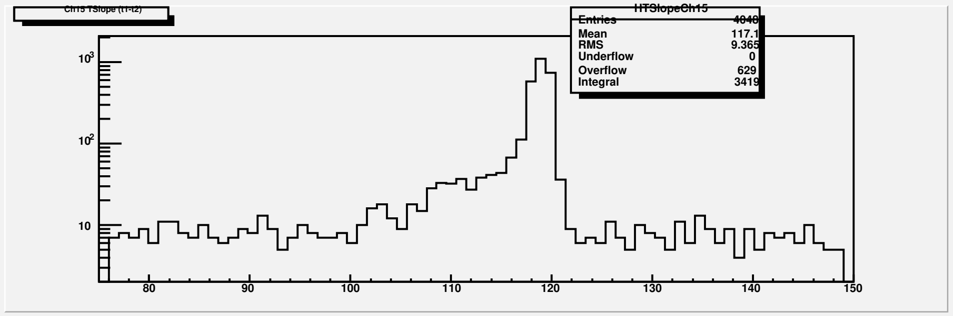

Ch13 QDiff: Q0-Q2
HQDiffCh13
Entries 1396
Mean 13.7
RMS 19.79
Underflow 0
Overflow 10
Integral 1386
10^2
10
1
-20
0
20
40
60
80
100
120

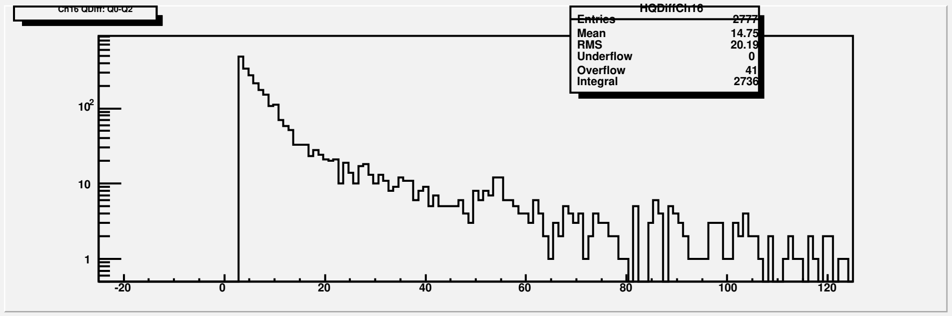

Ch13 TSlope (t1-t2)
HTSlopeCh13
Entries 1396
Mean 117.1
RMS 9.375
Underflow 0
Overflow 162
Integral 1234
10^2
10
1
80
90
100
110
120
130
140
150

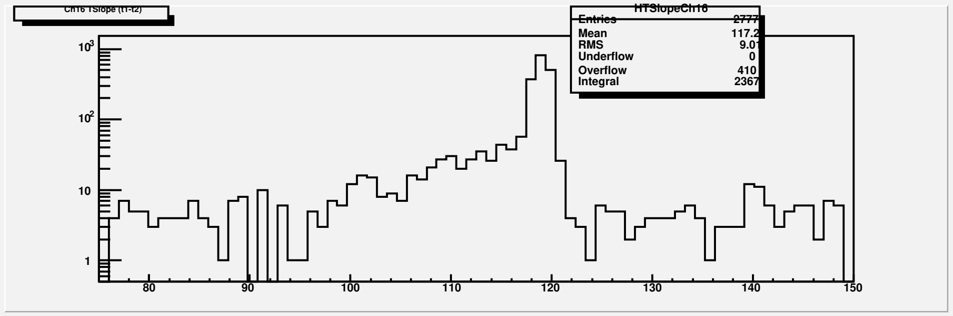

Ch14 QDiff: Q0-Q2
HQDiffCh14
Entries 2582
Mean 16.23
RMS 21.26
Underflow 0
Overflow 87
Integral 2495
10^2
10
1
-20
0
20
40
60
80
100
120

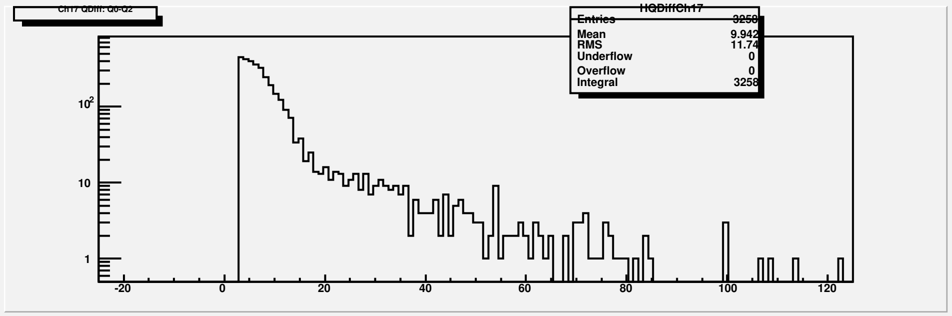

Ch14 TSlope (t1-t2)
HTSlopeCh14
Entries 2582
Mean 116.7
RMS 9.241
Underflow 0
Overflow 354
Integral 2228
10^3
10^2
10
1
80
90
100
110
120
130
140
150

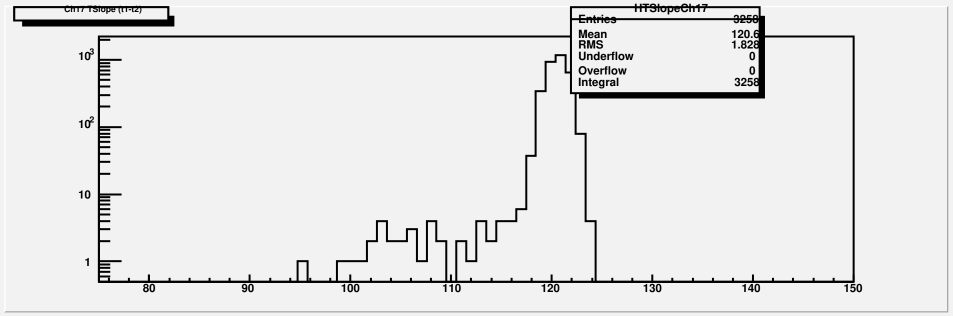

Ch15 QDiff: Q0-Q2
HQDiffCh15
Entries 4048
Mean 16.66
RMS 22.07
Underflow 0
Overflow 107
Integral 3941
10^2
10
1
-20
0
20
40
60
80
100
120

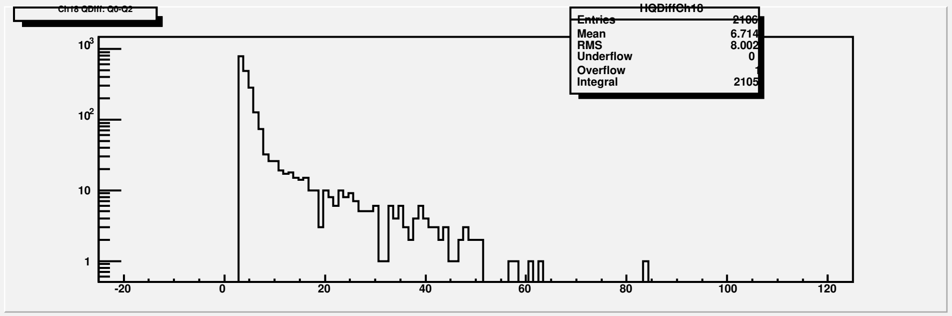

Ch15 TSlope (t1-t2)
HTSlopeCh15
Entries 4048
Mean 117.1
RMS 9.365
Underflow 0
Overflow 629
Integral 3419
10^3
10^2
10
80
90
100
110
120
130
140
150

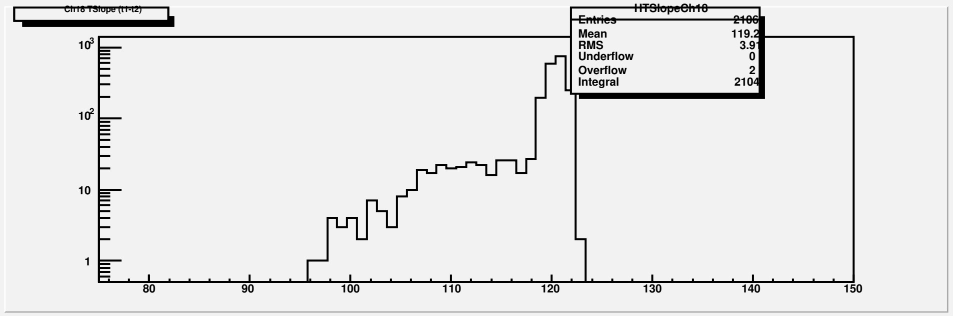

Ch16 QDiff: Q0-Q2
HQDiffCh16
Entries 2777
Mean 14.75
RMS 20.19
Underflow 0
Overflow 41
Integral 2736
10^2
10
1
-20
0
20
40
60
80
100
120

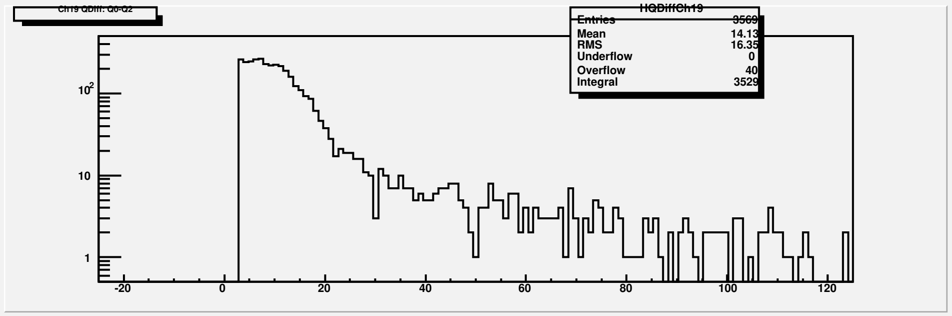

Ch16 TSlope (t1-t2)
HTSlopeCh16
Entries 2777
Mean 117.2
RMS 9.01
Underflow 0
Overflow 410
Integral 2367
10^3
10^2
10
1
80
90
100
110
120
130
140
150

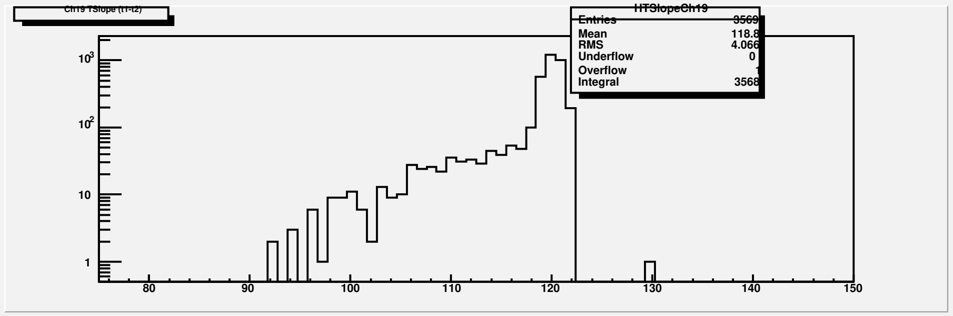

Ch17 QDiff: Q0-Q2
HQDiffCh17
Entries 3258
Mean 9.942
RMS 11.74
Underflow 0
Overflow 0
Integral 3258
10^2
10
1
-20
0
20
40
60
80
100
120

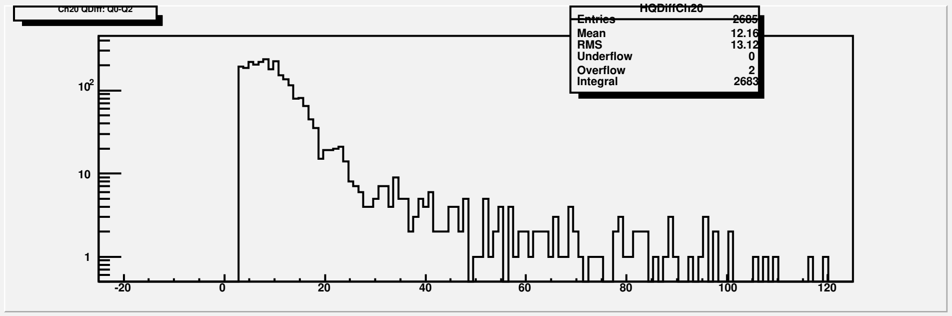

Ch17 TSlope (t1-t2)
HTSlopeCh17
Entries 3258
Mean 120.6
RMS 1.828
Underflow 0
Overflow 0
Integral 3258
10^3
10^2
10
1
80
90
100
110
120
130
140
150

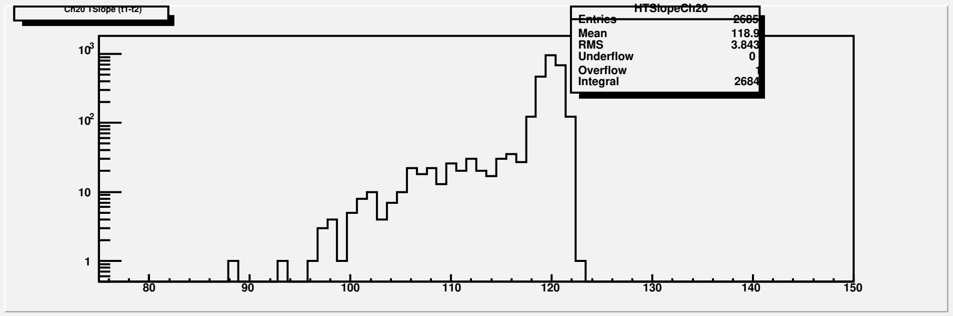

Ch18 QDiff: Q0-Q2
HQDiffCh18
Entries 2106
Mean 6.714
RMS 8.002
Underflow 0
Overflow 1
Integral 2105
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

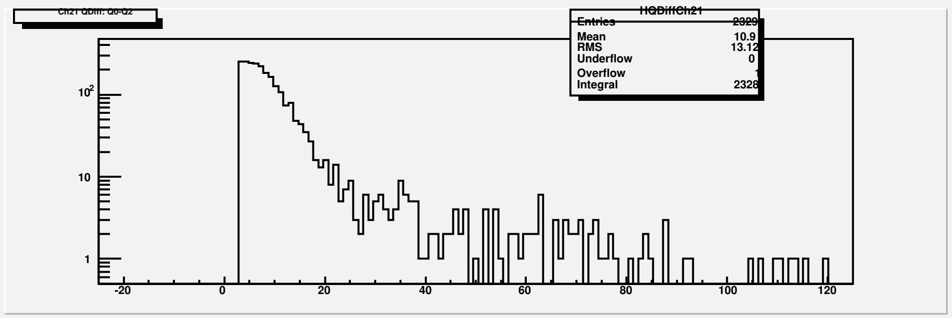

Ch18 TSlope (t1-t2)
HTSlopeCh18
Entries 2106
Mean 119.2
RMS 3.91
Underflow 0
Overflow 2
Integral 2104
10^3
10^2
10
1
80
90
100
110
120
130
140
150

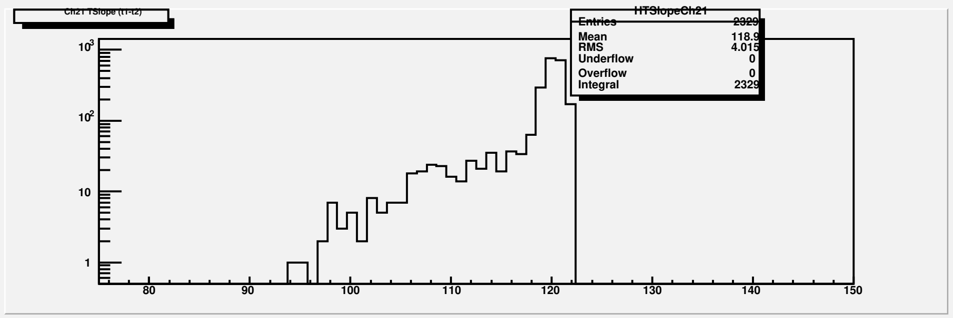

Ch19 QDiff: Q0-Q2
HQDiffCh19
Entries 3569
Mean 14.13
RMS 16.35
Underflow 0
Overflow 40
Integral 3529
10^2
10
1
-20
0
20
40
60
80
100
120

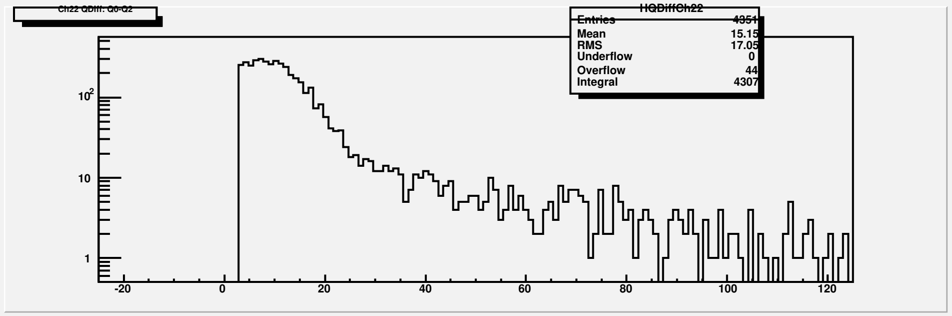

Ch19 TSlope (t1-t2)
HTSlopeCh19
Entries 3569
Mean 118.8
RMS 4.066
Underflow 0
Overflow 1
Integral 3568
10^3
10^2
10
1
80
90
100
110
120
130
140
150

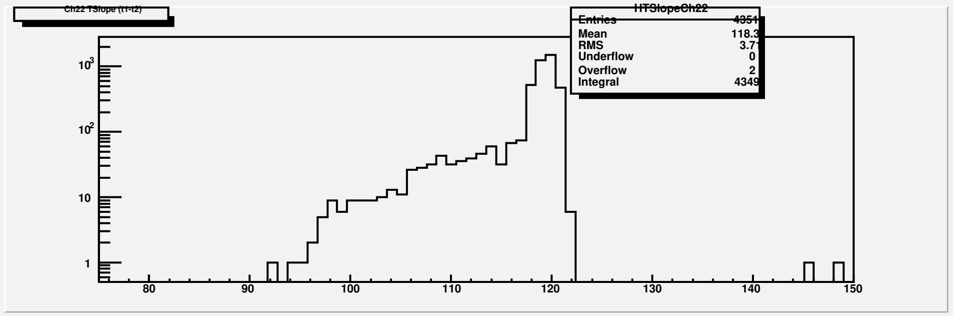

Ch20 QDiff: Q0-Q2
HQDiffCh20
Entries 2685
Mean 12.16
RMS 13.12
Underflow 0
Overflow 2
Integral 2683
10^2
10
1
-20
0
20
40
60
80
100
120

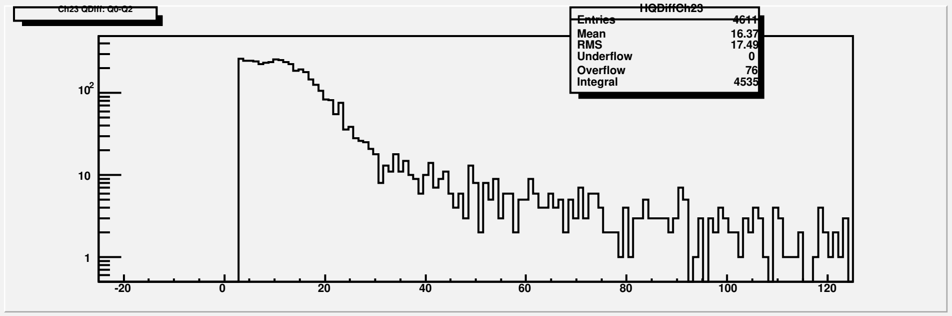

Ch20 TSlope (t1-t2)
HTSlopeCh20
Entries 2685
Mean 118.9
RMS 3.843
Underflow 0
Overflow 1
Integral 2684
10^3
10^2
10
1
80
90
100
110
120
130
140
150

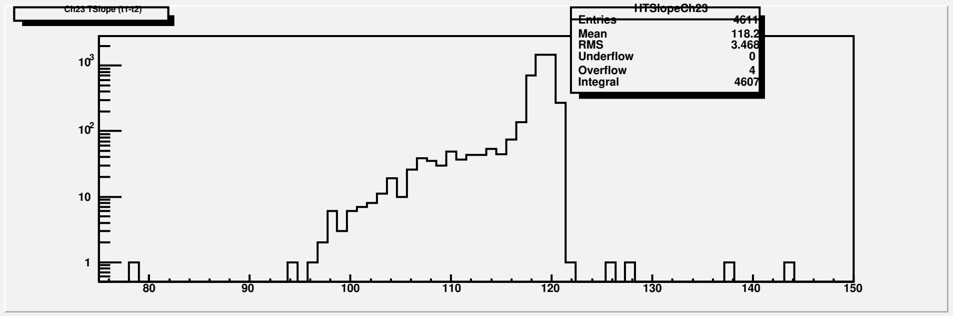

Ch21 QDiff: Q0-Q2
HQDiffCh21
Entries 2329
Mean 10.9
RMS 13.12
Underflow 0
Overflow 1
Integral 2328
10^2
10
1
-20
0
20
40
60
80
100
120

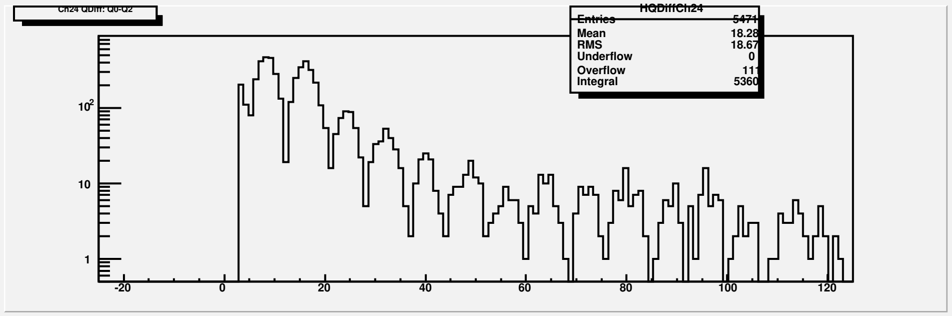

Ch21 TSlope (t1-t2)
HTSlopeCh21
Entries 2329
Mean 118.9
RMS 4.015
Underflow 0
Overflow 0
Integral 2329
10^3
10^2
10
1
80
90
100
110
120
130
140
150

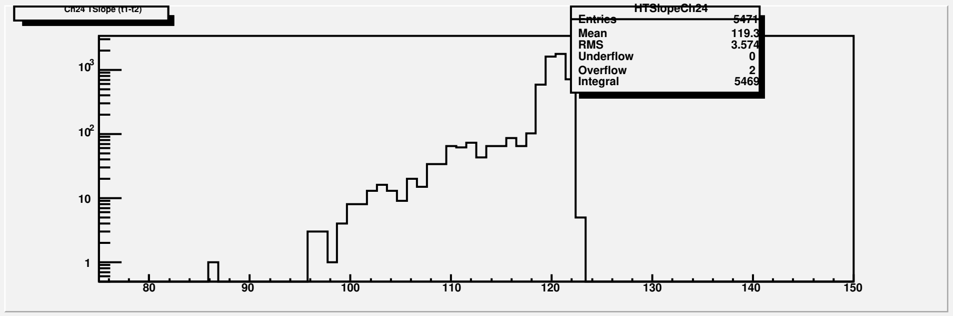

Ch22 QDiff: Q0-Q2
HQDiffCh22
Entries 4351
Mean 15.15
RMS 17.05
Underflow 0
Overflow 44
Integral 4307
10^2
10
1
-20
0
20
40
60
80
100
120


Ch22 TSlope (t1-t2)
HTSlopeCh22
Entries 4351
Mean 118.3
RMS 3.71
Underflow 0
Overflow 2
Integral 4349
10^3
10^2
10
1
80
90
100
110
120
130
140
150

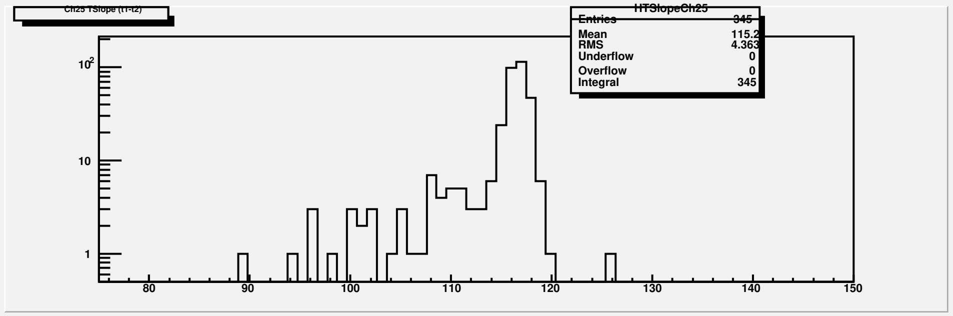

Ch23 QDiff: Q0-Q2
HQDiffCh23
Entries 4611
Mean 16.37
RMS 17.49
Underflow 0
Overflow 76
Integral 4535
10^2
10
1
-20
0
20
40
60
80
100
120

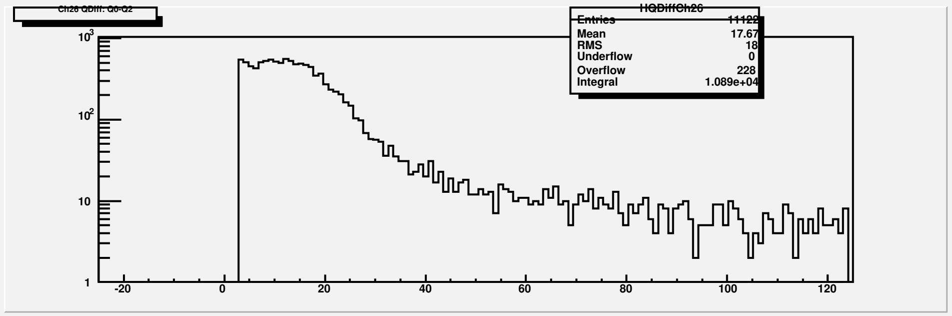

Ch23 TSlope (t1-t2)
HTSlopeCh23
Entries 4611
Mean 118.2
RMS 3.468
Underflow 0
Overflow 4
Integral 4607
10^3
10^2
10
1
80
90
100
110
120
130
140
150

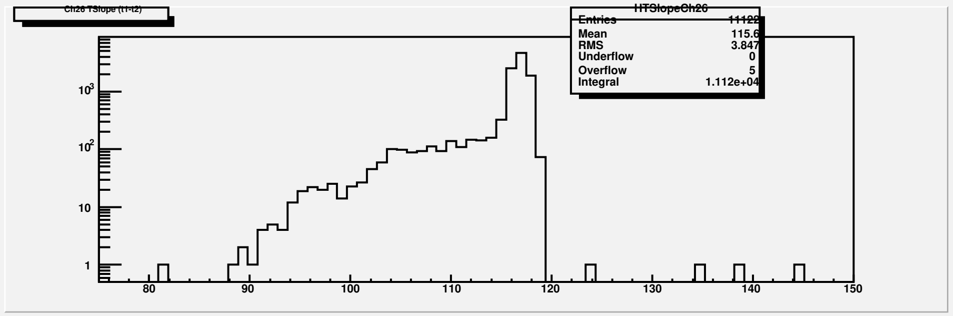

Ch24 QDiff: Q0-Q2
HQDiffCh24
Entries 5471
Mean 18.28
RMS 18.67
Underflow 0
Overflow 111
Integral 5360
10^2
10
1
-20
0
20
40
60
80
100
120

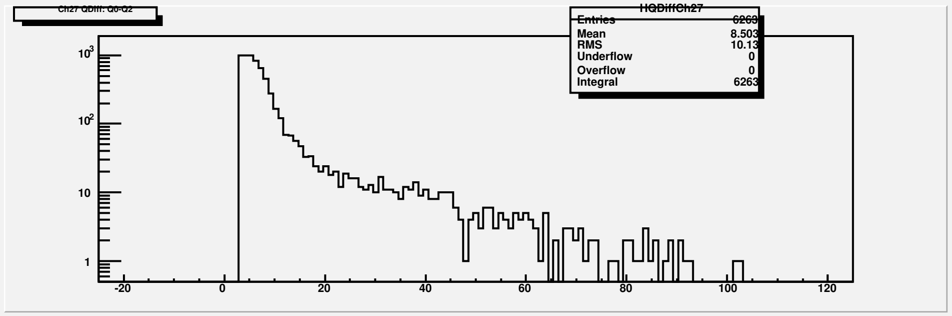

Ch24 TSlope (t1-t2)
HTSlopeCh24
Entries 5471
Mean 119.3
RMS 3.574
Underflow 0
Overflow 2
Integral 5469
10^3
10^2
10
1
80
90
100
110
120
130
140
150

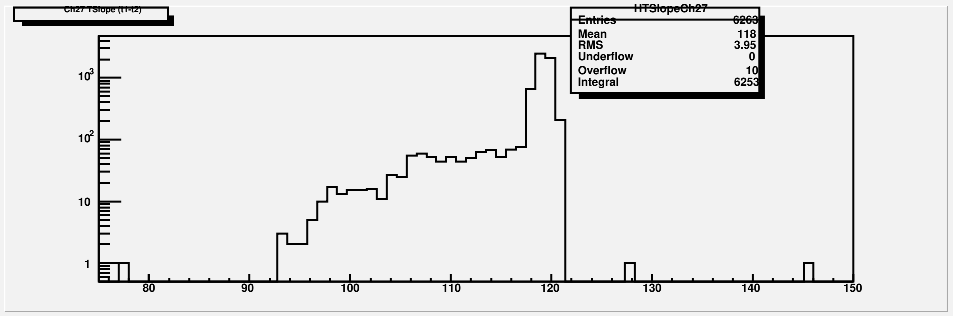

Ch25 QDiff: Q0-Q2
HQDiffCh25
Entries 345
Mean 3.777
RMS 1.144
Underflow 0
Overflow 0
Integral 345
1
10
10^2
-20
0
20
40
60
80
100
120

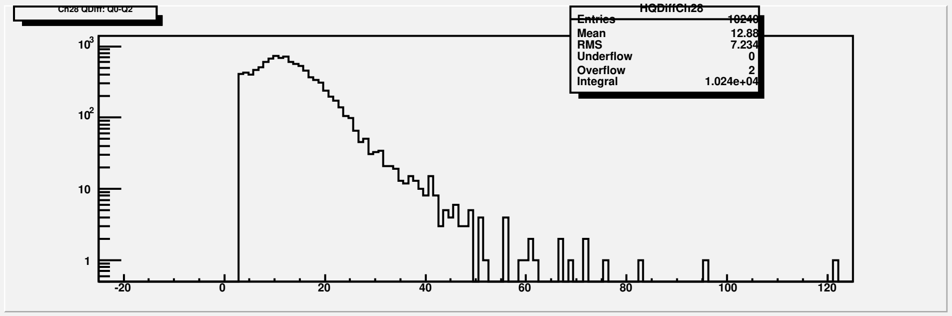

Ch25 TSlope (t1-t2)
HTSlopeCh25
Entries 345
Mean 115.2
RMS 4.363
Underflow 0
Overflow 0
Integral 345
1
10
10^2
80
90
100
110
120
130
140
150

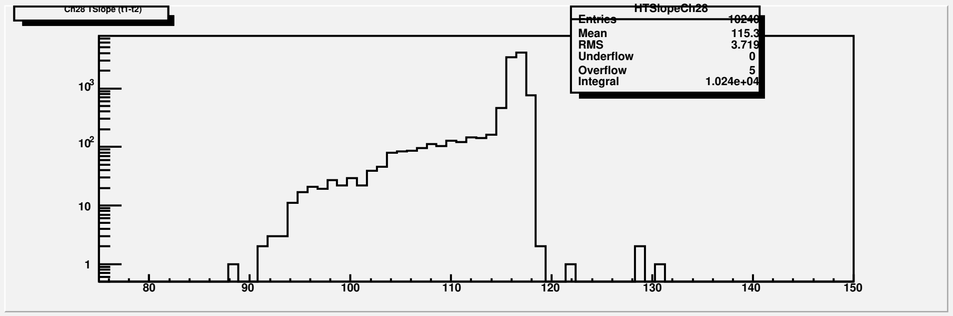

Ch26 QDiff: Q0-Q2
HQDiffCh26
Entries 11122
Mean 17.67
RMS 18
Underflow 0
Overflow 228
Integral 1.089e+04
1
10
10^2
10^3
-20
0
20
40
60
80
100
120

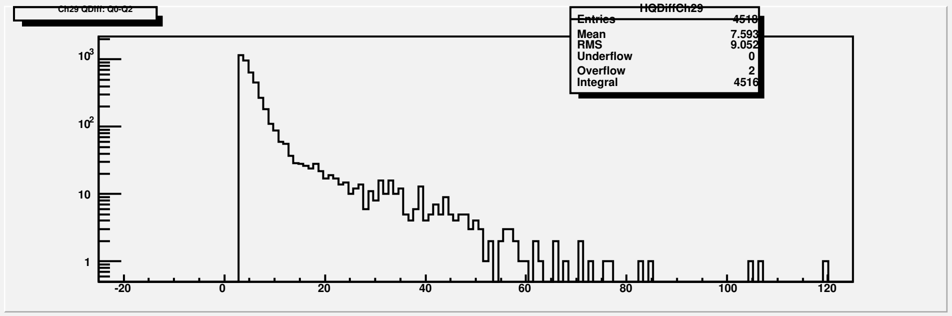

Ch26 TSlope (t1-t2)
HTSlopeCh26
Entries 11122
Mean 115.6
RMS 3.847
Underflow 0
Overflow 5
Integral 1.112e+04
1
10
10^2
10^3
80
90
100
110
120
130
140
150

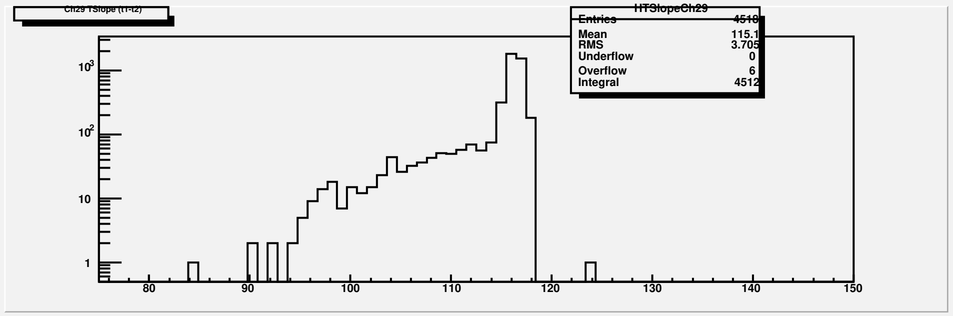

Ch27 QDiff: Q0-Q2
HQDiffCh27
Entries 6263
Mean 8.503
RMS 10.13
Underflow 0
Overflow 0
Integral 6263
1
10
10^2
10^3
-20
0
20
40
60
80
100
120

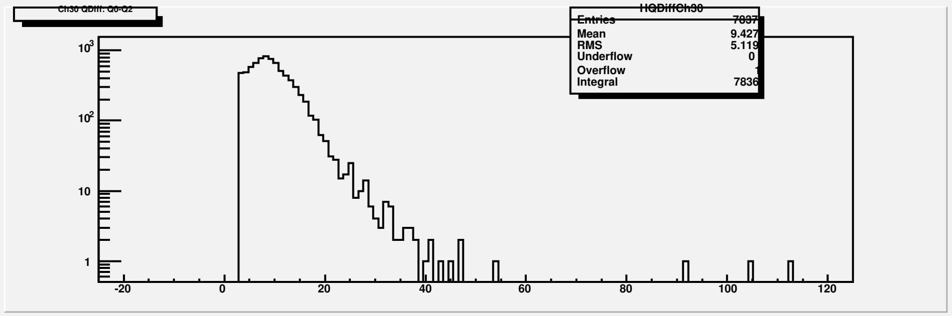

Ch27 TSlope (t1-t2)
HTSlopeCh27
Entries 6263
Mean 118
RMS 3.95
Underflow 0
Overflow 10
Integral 6253
1
10
10^2
10^3
80
90
100
110
120
130
140
150

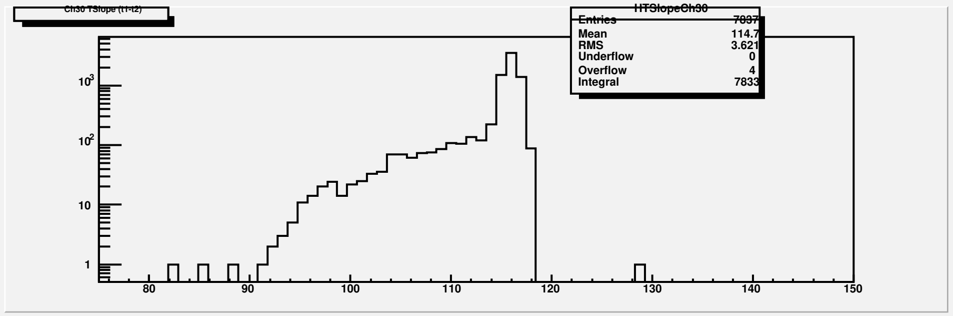

Ch28 QDiff: Q0-Q2
HQDiffCh28
Entries 10240
Mean 12.88
RMS 7.234
Underflow 0
Overflow 2
Integral 1.024e+04
1
10
10^2
10^3
-20
0
20
40
60
80
100
120

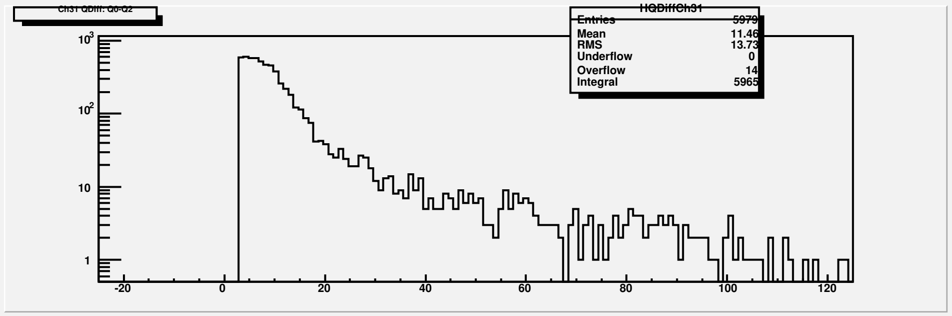

Ch28 TSlope (t1-t2)
HTSlopeCh28
Entries 10240
Mean 115.3
RMS 3.719
Underflow 0
Overflow 5
Integral 1.024e+04
1
10
10^2
10^3
80
90
100
110
120
130
140
150

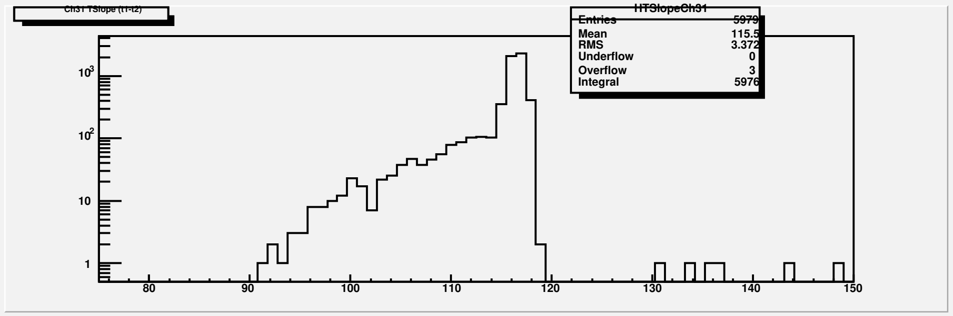

Ch29 QDiff: Q0-Q2
HQDiffCh29
Entries 4518
Mean 7.593
RMS 9.052
Underflow 0
Overflow 2
Integral 4516
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch29 TSlope (t1-t2)
HTSlopeCh29
Entries 4518
Mean 115.1
RMS 3.705
Underflow 0
Overflow 6
Integral 4512
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch30 QDiff: Q0-Q2
HQDiffCh30
Entries 7837
Mean 9.427
RMS 5.119
Underflow 0
Overflow 1
Integral 7836
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch30 TSlope (t1-t2)
HTSlopeCh30
Entries 7837
Mean 114.7
RMS 3.621
Underflow 0
Overflow 4
Integral 7833
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch31 QDiff: Q0-Q2
HQDiffCh31
Entries 5979
Mean 11.46
RMS 13.73
Underflow 0
Overflow 14
Integral 5965
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch31 TSlope (t1-t2)
HTSlopeCh31
Entries 5979
Mean 115.5
RMS 3.372
Underflow 0
Overflow 3
Integral 5976
10^3
10^2
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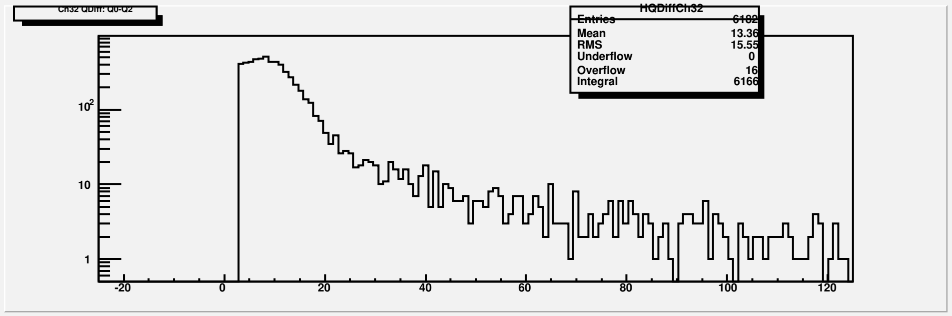
1
80
90
100
110
120
130
140
150


Ch32 QDiff: Q0-Q2
HQDiffCh32
Entries 6182
Mean 13.36
RMS 15.55
Underflow 0
Overflow 16
Integral 6166
10^2
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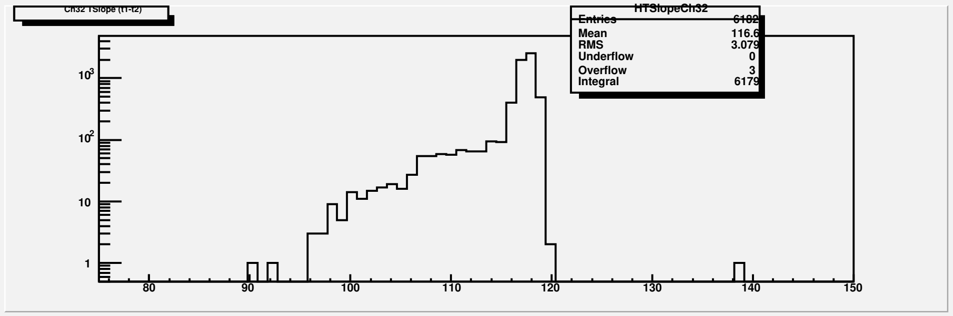
1
-20
0
20
40
60
80
100
120


Ch32 TSlope (t1-t2)
HTSlopeCh32
Entries 6182
Mean 116.6
RMS 3.079
Underflow 0
Overflow 3
Integral 6179
10^3
10^2
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1
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90
100
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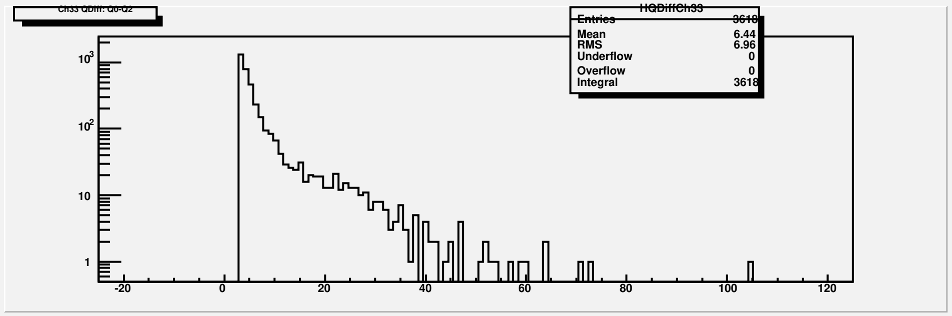
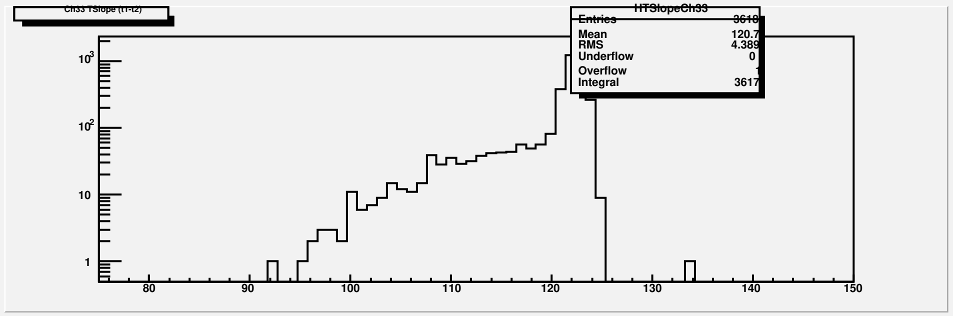
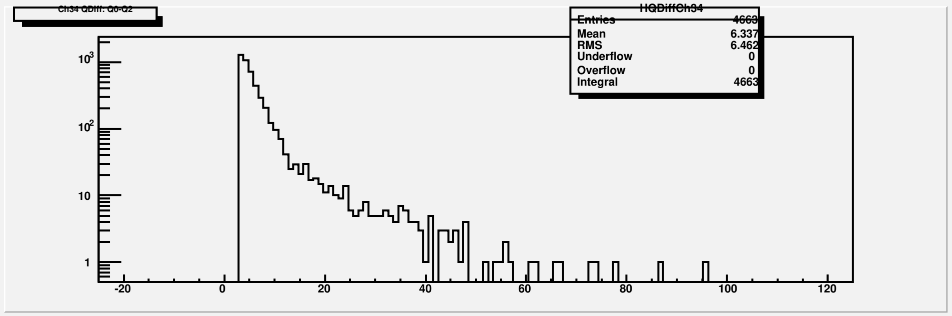
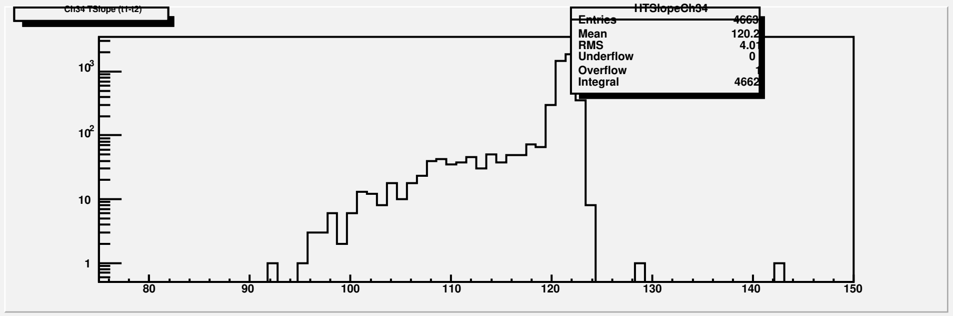
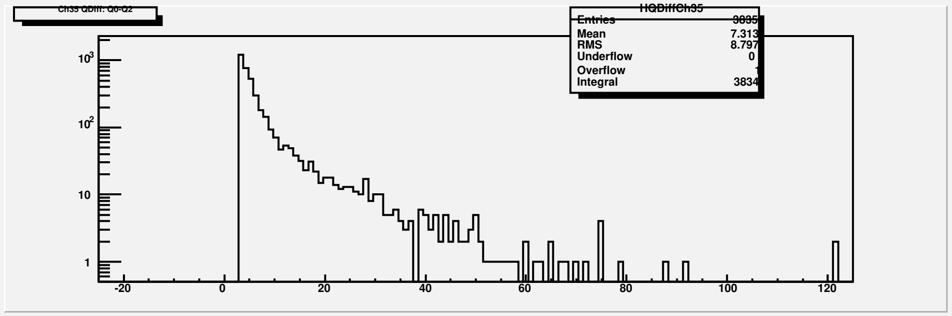
120
130
140
150

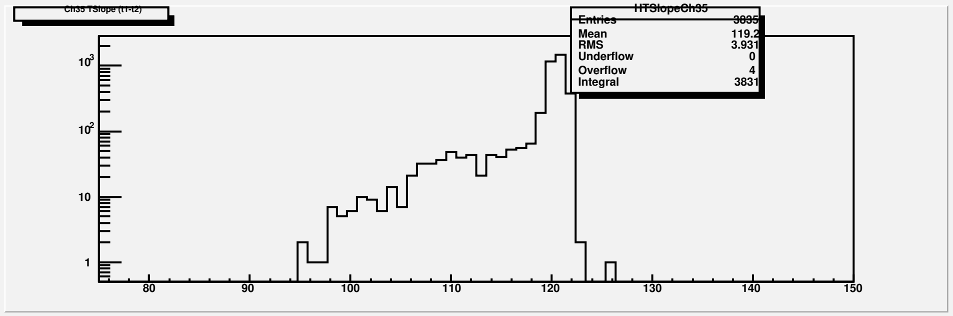

Ch33 QDiff: Q0-Q2
HQDiffCh33
Entries 3618
Mean 6.44
RMS 6.96
Underflow 0
Overflow 0
Integral 3618
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

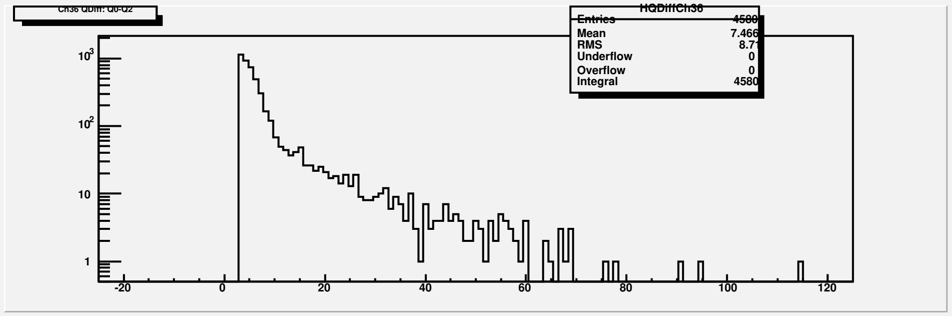

Ch33 TSlope (t1-t2)
HTSlopeCh33
Entries 3618
Mean 120.7
RMS 4.389
Underflow 0
Overflow 1
Integral 3617
10^3
10^2
10
1
80
90
100
110
120
130
140
150

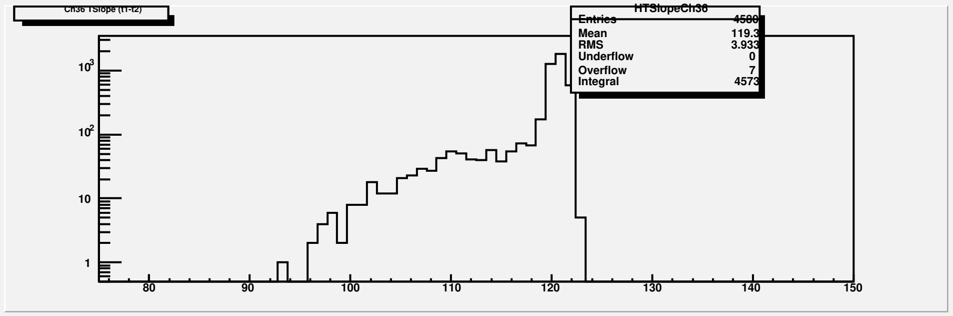

Ch34 QDiff: Q0-Q2
HQDiffCh34
Entries 4663
Mean 6.337
RMS 6.462
Underflow 0
Overflow 0
Integral 4663
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

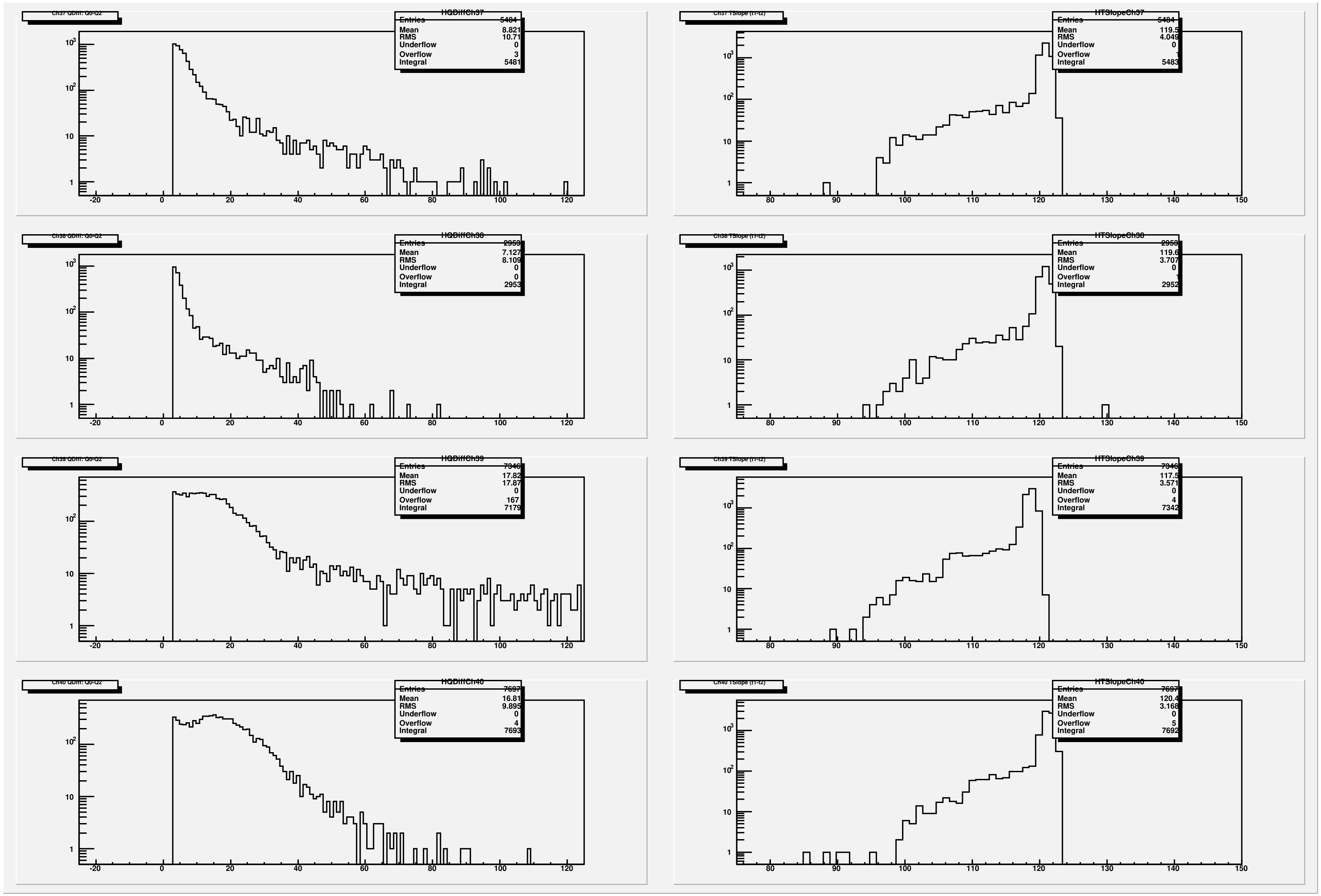

Ch34 TSlope (t1-t2)
HTSlopeCh34
Entries 4663
Mean 120.2
RMS 4.01
Underflow 0
Overflow 1
Integral 4662
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch35 QDiff: Q0-Q2
HQDiffCh35
Entries 3835
Mean 7.313
RMS 8.797
Underflow 0
Overflow 1
Integral 3834
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch35 TSlope (t1-t2)
HTSlopeCh35
Entries 3835
Mean 119.2
RMS 3.931
Underflow 0
Overflow 4
Integral 3831
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch36 QDiff: Q0-Q2
HQDiffCh36
Entries 4580
Mean 7.466
RMS 8.71
Underflow 0
Overflow 0
Integral 4580
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch36 TSlope (t1-t2)
HTSlopeCh36
Entries 4580
Mean 119.3
RMS 3.933
Underflow 0
Overflow 7
Integral 4573
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch37 QDiff: Q0-Q2
HQDiffCh37
Entries 5484
Mean 8.821
RMS 10.71
Underflow 0
Overflow 3
Integral 5481
Ch37 TSlope (t1-t2)
HTSlopeCh37
Entries 5484
Mean 119.5
RMS 4.049
Underflow 0
Overflow 1
Integral 5483
Ch38 QDiff: Q0-Q2
HQDiffCh38
Entries 2953
Mean 7.127
RMS 8.109
Underflow 0
Overflow 0
Integral 2953
Ch38 TSlope (t1-t2)
HTSlopeCh38
Entries 2953
Mean 119.6
RMS 3.707
Underflow 0
Overflow 1
Integral 2952
Ch39 QDiff: Q0-Q2
HQDiffCh39
Entries 7346
Mean 17.82
RMS 17.87
Underflow 0
Overflow 167
Integral 7179
Ch39 TSlope (t1-t2)
HTSlopeCh39
Entries 7346
Mean 117.5
RMS 3.571
Underflow 0
Overflow 4
Integral 7342
Ch40 QDiff: Q0-Q2
HQDiffCh40
Entries 7697
Mean 16.81
RMS 9.895
Underflow 0
Overflow 4
Integral 7693
Ch40 TSlope (t1-t2)
HTSlopeCh40
Entries 7697
Mean 120.4
RMS 3.168
Underflow 0
Overflow 5
Integral 7692
10^3
10^2
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1
-20
0
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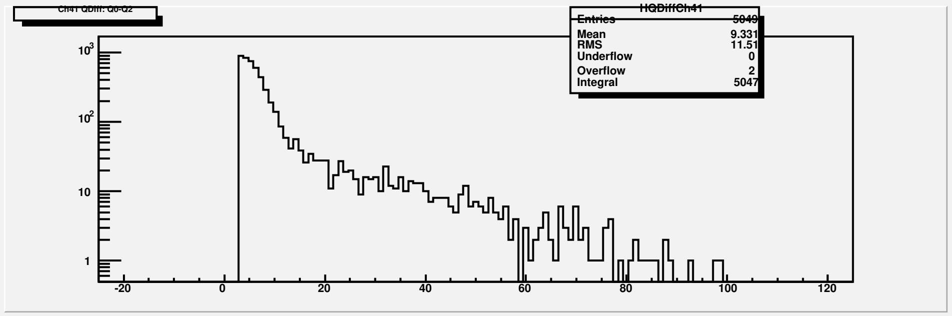
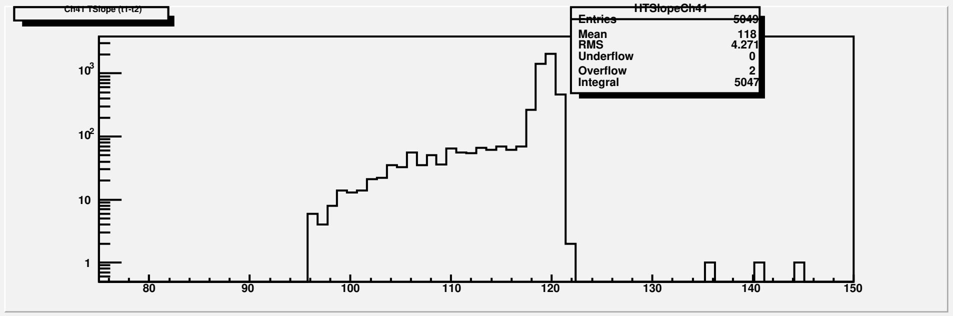
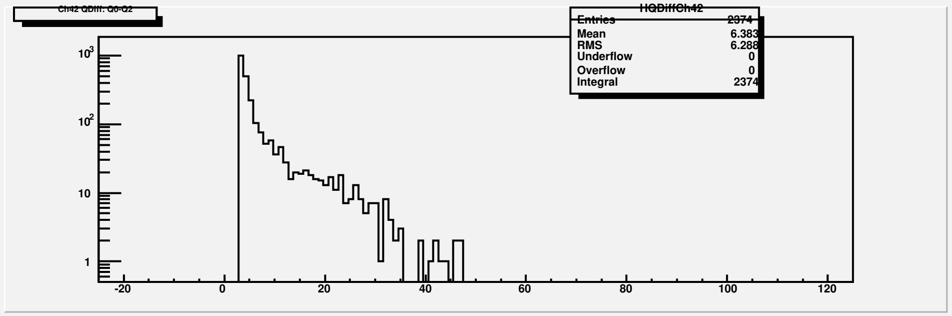
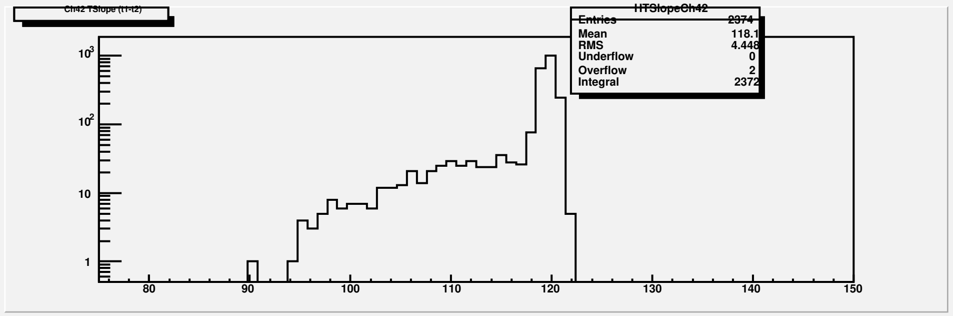
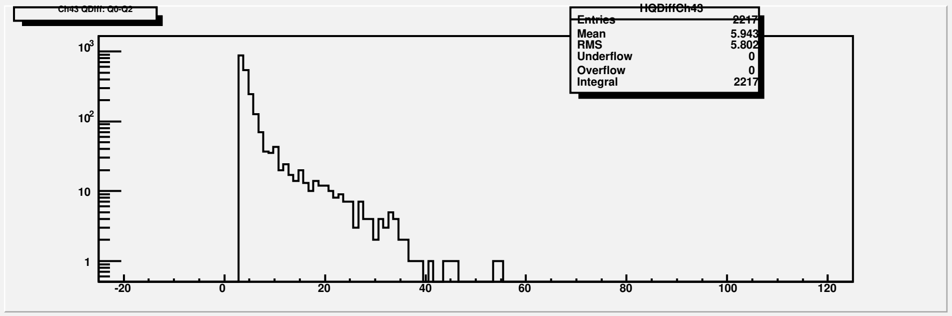
40
60
80
100
120
80
90
100
110
120
130
140
150

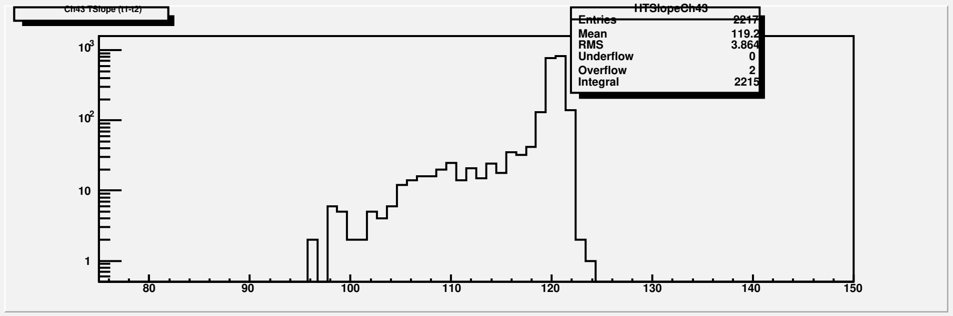

Ch41 QDiff: Q0-Q2
HQDiffCh41
Entries 5049
Mean 9.331
RMS 11.51
Underflow 0
Overflow 2
Integral 5047
10^3
10^2
10
1
-20
0
20
40
60
80
100
120

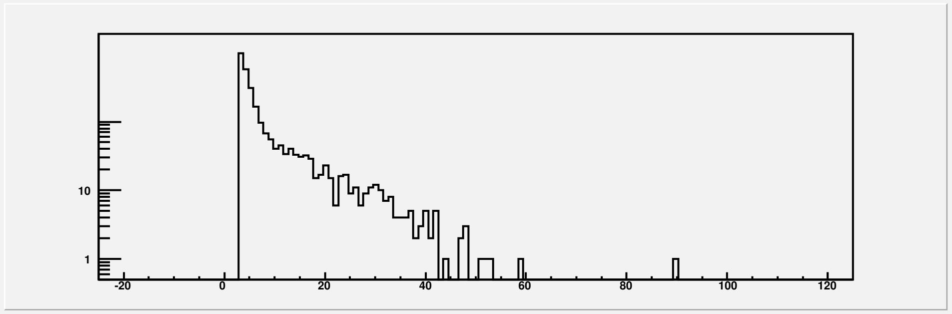

Ch41 TSlope (t1-t2)
HTSlopeCh41
Entries 5049
Mean 118
RMS 4.271
Underflow 0
Overflow 2
Integral 5047
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch42 QDiff: Q0-Q2
HQDiffCh42
Entries 2374
Mean 6.383
RMS 6.288
Underflow 0
Overflow 0
Integral 2374
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch42 TSlope (t1-t2)
HTSlopeCh42
Entries 2374
Mean 118.1
RMS 4.448
Underflow 0
Overflow 2
Integral 2372
10^3
10^2
10
1
80
90
100
110
120
130
140
150


Ch43 QDiff: Q0-Q2
HQDiffCh43
Entries 2217
Mean 5.943
RMS 5.802
Underflow 0
Overflow 0
Integral 2217
10^3
10^2
10
1
-20
0
20
40
60
80
100
120


Ch43 TSlope (t1-t2)
HTSlopeCh43
Entries 2217
Mean 119.2
RMS 3.864
Underflow 0
Overflow 2
Integral 2215
10^3
10^2
10
1
80
90
100
110
120
130
140
150


10
1
-20
0
20
40
60
80
100
120