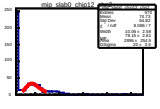
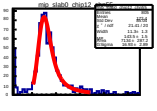
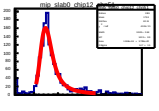
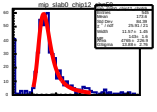
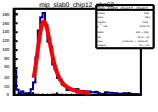
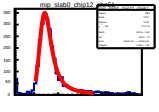

mip_slab0_chip12_chan5
Entries 1179
Mean 19.22
Std Dev 12.12
χ² / ndf 8.086 / 7
Const 12.06 ± 2.58
MPV 79.16 ± 2.03
σ 3.000 ± 0.000
Integral 1.0e+3 ± 0.0

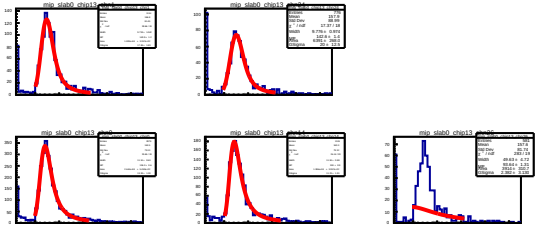

mip_slab0_chip12_chan55
Entries 2858
Mean 21.48
Std Dev 11.34
χ² / ndf 3.614 / 5
Const 15.61 ± 1.5
MPV 19.91 ± 0.2
σ 3.000 ± 0.000
Integral 1.0e+3 ± 0.0

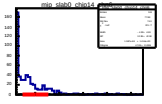

mip_slab0_chip12_chan56
Entries 2858
Mean 21.48
Std Dev 11.34
χ² / ndf 3.614 / 5
Const 15.61 ± 1.5
MPV 19.91 ± 0.2
σ 3.000 ± 0.000
Integral 1.0e+3 ± 0.0

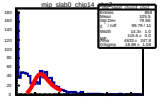

mip_slab0_chip12_chan58
Entries 1179
Mean 19.22
Std Dev 12.12
χ² / ndf 19.93 / 11
Const 11.97 ± 1.45
MPV 19.91 ± 0.2
σ 3.000 ± 0.000
Integral 1.0e+3 ± 0.0

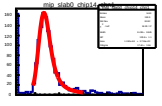

mip_slab0_chip12_chan59
Entries 1179
Mean 19.22
Std Dev 12.12
χ² / ndf 19.93 / 11
Const 11.97 ± 1.45
MPV 19.91 ± 0.2
σ 3.000 ± 0.000
Integral 1.0e+3 ± 0.0

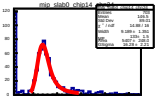

mip_slab0_chip12_chan60
Entries 1179
Mean 19.22
Std Dev 12.12
χ² / ndf 19.93 / 11
Const 11.97 ± 1.45
MPV 19.91 ± 0.2
σ 3.000 ± 0.000
Integral 1.0e+3 ± 0.0

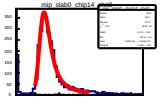

mip_slab0_chip13_chan1
Entries 1000
Mean 19.72
Std Dev 38.09
χ2 / ndf 1.7 / 2
Const 9.774 ± 0.319
MPV 142.6 ± 3.4
Width 6.952 ± 0.613
Integral 1000.0
mip_slab0_chip13_chan21
Entries 1000
Mean 19.72
Std Dev 38.09
χ2 / ndf 1.7 / 2
Const 9.774 ± 0.319
MPV 142.6 ± 3.4
Width 6.952 ± 0.613
Integral 1000.0
mip_slab0_chip13_chan2
mip_slab0_chip13_chan14
mip_slab0_chip13_chan15
mip_slab0_chip13_chan3
Entries 1000
Mean 19.72
Std Dev 38.09
χ2 / ndf 283.1 / 8
MPV 29.63 ± 4.72
Width 2.502 ± 0.215
Integral 2502.1 ± 0.0

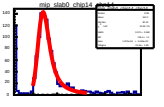

mip_slab0_chip14_strip0
Entries 1024
Mean 15.5
Std Dev 15.5
χ² / ndf 99.79 / 15
Prob 0
Constant 12.24 ± 1.0
Mean 119.4 ± 0.0
Sigma 15.00 ± 0.00
Constant 11.99 ± 1.18

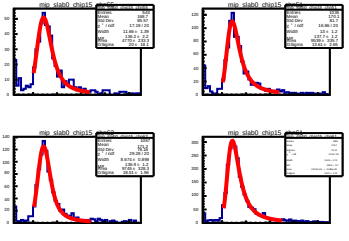

mip_slab0_chip14_strip1
Entries 1024
Mean 15.5
Std Dev 15.5
χ² / ndf 99.79 / 15
Prob 0
Constant 12.24 ± 1.0
Mean 119.4 ± 0.0
Sigma 15.00 ± 0.00
Constant 11.99 ± 1.18

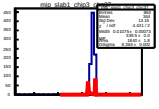

mip_slab0_chip14_strip2
Entries 1024
Mean 15.5
Std Dev 15.5
χ² / ndf 99.79 / 15
Prob 0
Constant 12.24 ± 1.0
Mean 119.4 ± 0.0
Sigma 15.00 ± 0.00
Constant 11.99 ± 1.18

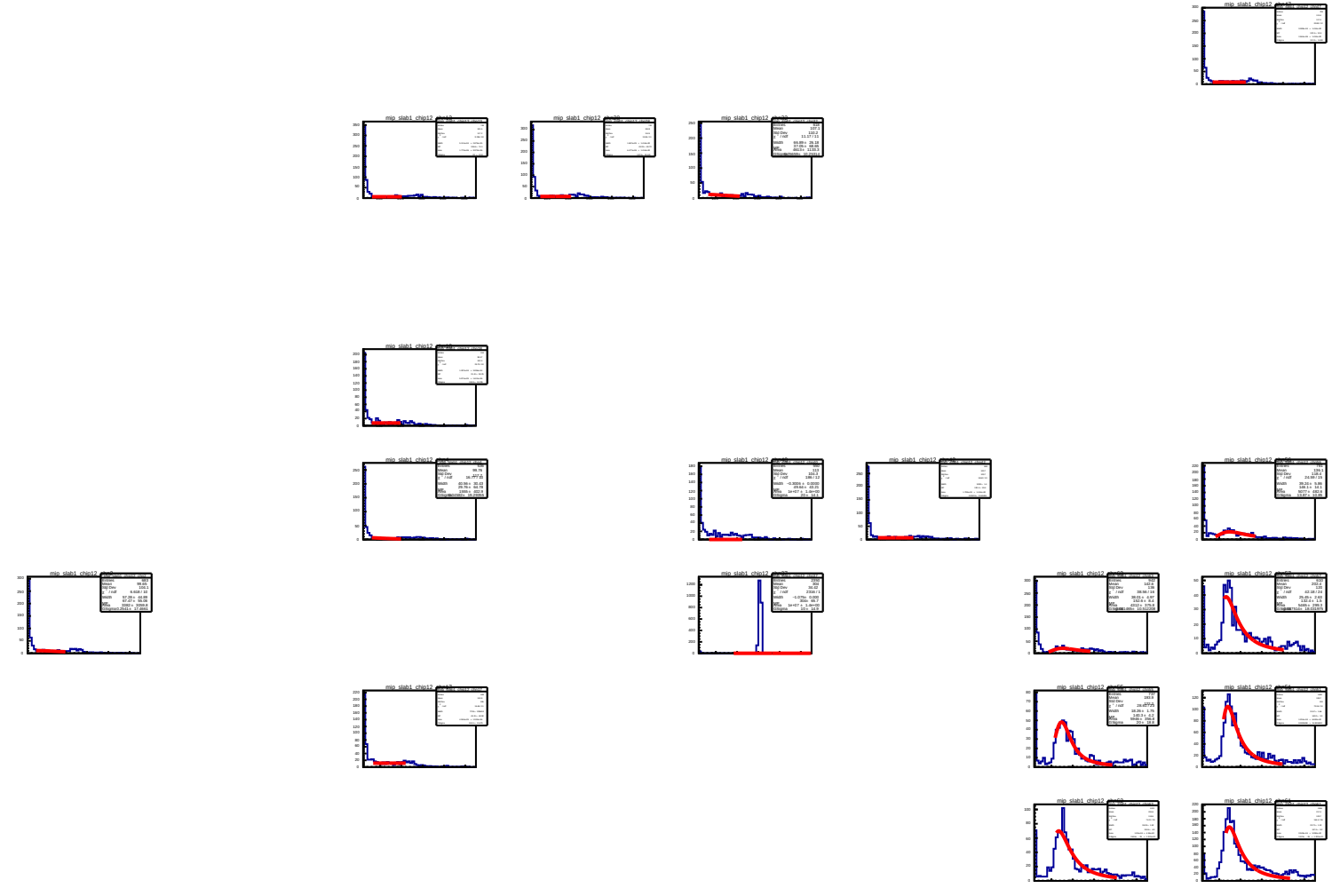

mip_slab0_chip14_strip3
Entries 1024
Mean 15.5
Std Dev 15.5
χ² / ndf 99.79 / 15
Prob 0
Constant 12.24 ± 1.0
Mean 119.4 ± 0.0
Sigma 15.00 ± 0.00
Constant 11.99 ± 1.18

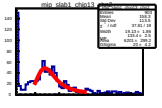

mip_slab0_chip14_strip4
Entries 1024
Mean 15.5
Std Dev 15.5
χ² / ndf 99.79 / 15
Prob 0
Constant 12.24 ± 1.0
Mean 119.4 ± 0.0
Sigma 15.00 ± 0.00
Constant 11.99 ± 1.18

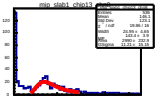

mip_slab0_chip14_strip5
Entries 1024
Mean 15.5
Std Dev 15.5
χ² / ndf 99.79 / 15
Prob 0
Constant 12.24 ± 1.0
Mean 119.4 ± 0.0
Sigma 15.00 ± 0.00
Constant 11.99 ± 1.18

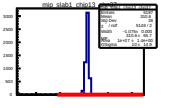

mip slab0 chip15 chan55
Entries 1000
Mean 39.57
Std Dev 89.37
χ² / ndf 17.35 / 20
Const 11.80 ± 1.39
MPV 330.2 ± 2.2
Width 17.73 ± 2.5
Sigma 77.4 ± 1.4
mip slab0 chip15 chan56
Entries 1000
Mean 51.2
Std Dev 81.2
χ² / ndf 10.66 / 17
Const 15 ± 1.3
MPV 337.4 ± 1.7
Width 15.61 ± 1.6
Sigma 53.81 ± 0.85
mip slab0 chip15 chan57
Entries 1000
Mean 52.6
Std Dev 79.1
χ² / ndf 29.30 / 23
Const 8.674 ± 0.898
MPV 339.1 ± 2.1
Width 17.55 ± 3.05
Sigma 59.91 ± 1.06
mip slab0 chip15 chan58
Entries 1000
Mean 71.4
Std Dev 97.1
χ² / ndf 13.71 / 17
Const 21.7 ± 1.7
MPV 346.1 ± 1.1
Width 14.57 ± 1.1
Sigma 50.17 ± 0.77

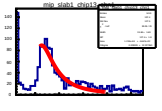

mip_slab1_chip3_chan3
Entries 1000
Mean 0.7
Underflow 0
Overflow 0
Integral 1000
Mean 0.01875± 0.0207
Sigma 0.0189± 0.0
Mean x 0.7
Sigma x 0.0207± 0.02
450
400
350
300
250
200
150
100
50
0

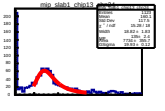

mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12
mip slab1 chip12

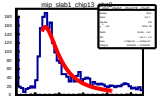

mip slab1 chip13 chan2
Entries 1024
Mean 113.5
Std Dev 37.61
χ² / ndf 19.13 / 1.89
Width 115.4 ± 2.6
MPV 93.93 ± 0.8
Integral 11.01 ± 0.2

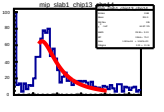

mip slab1 chip13 chan3
Entries 1024
Mean 125.1
Std Dev 39.96
χ² / ndf 19.86 / 0.8
Width 210.55 ± 4.75
MPV 103.4 ± 5.9
Integral 11.01 ± 0.2
Integral 11.01 ± 0.2

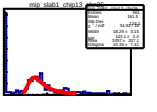

mip slab1 chip13 chan12
Entries 1024
Mean 1024
Std Dev 50.4
χ² / ndf 9148 / 2
Width 0.279± 0.102
MPV 1019.6 ± 66.7
Integral 54.7 ± 0.7
Integral 54.7 ± 0.7

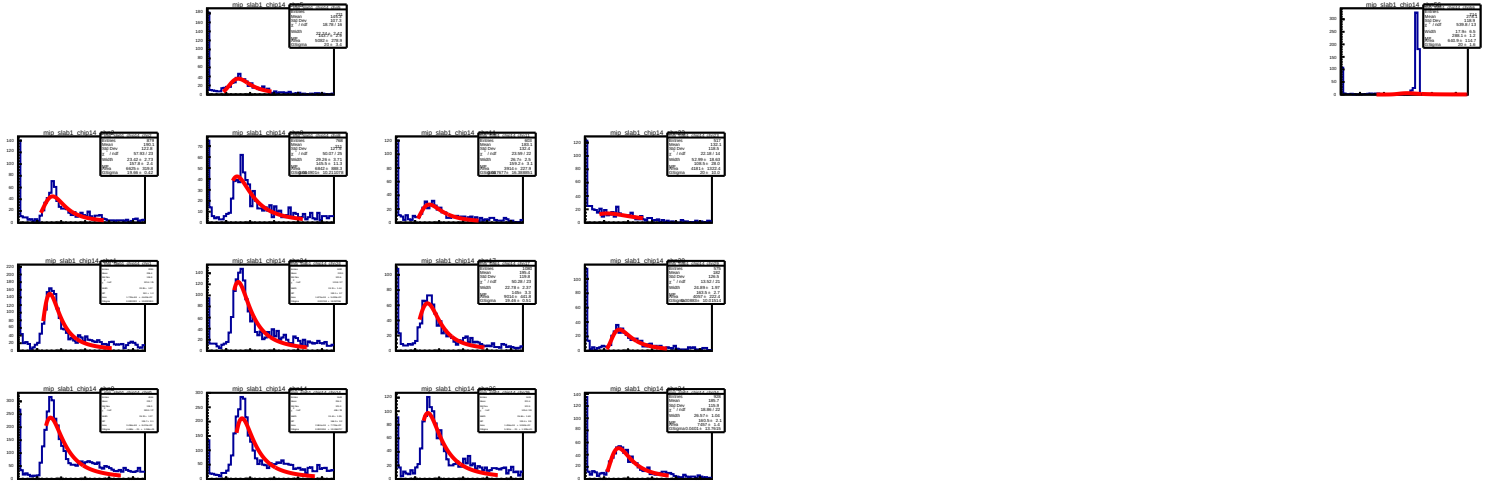

mip slab1 chip13 chan1
Entries 1024
Mean 1024
Std Dev 117.6
χ² / ndf 8.4 / 0
Width 10.62 ± 1.49
MPV 1280 ± 0.2
Integral 77.2 ± 0.1
Integral 77.2 ± 0.1

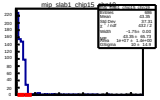

mip slab1 chip13 chan4
Entries 1024
Mean 1024
Std Dev 117.6
χ² / ndf 8.4 / 0
Width 10.62 ± 1.49
MPV 1280 ± 0.2
Integral 77.2 ± 0.1
Integral 77.2 ± 0.1

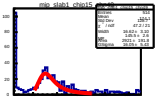

mip slab1 chip13 chan5
Entries 1024
Mean 1024
Std Dev 117.6
χ² / ndf 8.4 / 0
Width 10.62 ± 1.49
MPV 1280 ± 0.2
Integral 77.2 ± 0.1
Integral 77.2 ± 0.1

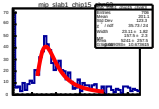

mip slab1 chip13 chan14
Entries 1024
Mean 1024
Std Dev 117.6
χ² / ndf 8.4 / 0
Width 10.62 ± 1.49
MPV 1280 ± 0.2
Integral 77.2 ± 0.1
Integral 77.2 ± 0.1

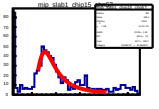

mip slab1 chip13 chan15
Entries 1024
Mean 1024
Std Dev 117.6
χ² / ndf 8.4 / 0
Width 10.62 ± 1.49
MPV 1280 ± 0.2
Integral 77.2 ± 0.1
Integral 77.2 ± 0.1

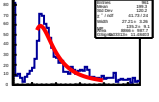

mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14
mip slab1 chip14

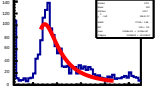

mip slab1 chip15 chan15
Entries 1024
Mean 34.38
Std Dev 37.31
χ² / ndf 2017 / 0
Prob 0.00
Width -0.0 ± 0.0
MPV 14.07 ± 0.00
Integral 34.1 ± 0.0

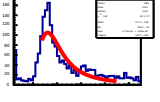

mip slab1 chip15 chan16
Entries 1024
Mean 47.2
Std Dev 47.2
χ² / ndf 47.2 / 21
Width 16.62 ± 0.21
MPV 145.6 ± 0.4
Integral 52.5 ± 0.1

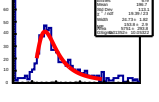

mip slab1 chip15 chan17
Entries 1024
Mean 201.7
Std Dev 19.7
χ² / ndf 19.7 / 24
Width 23.11 ± 1.02
MPV 197.9 ± 2.5
Integral 11.4 ± 0.1
Chi2 Probability 0.6475

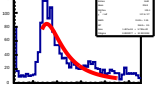

mip slab1 chip15 chan18

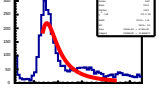

mip slab1 chip15 chan19
Entries 1024
Mean 160.2
Std Dev 120.2
χ² / ndf 2.3 / 1
Width 37.21 ± 3.26
MPV 135.2 ± 3.3
Integral 3.6 ± 0.1
Chi2 Probability 0.1307

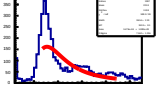

mip slab1 chip15 chan20

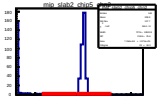

mip slab1 chip15 chan21

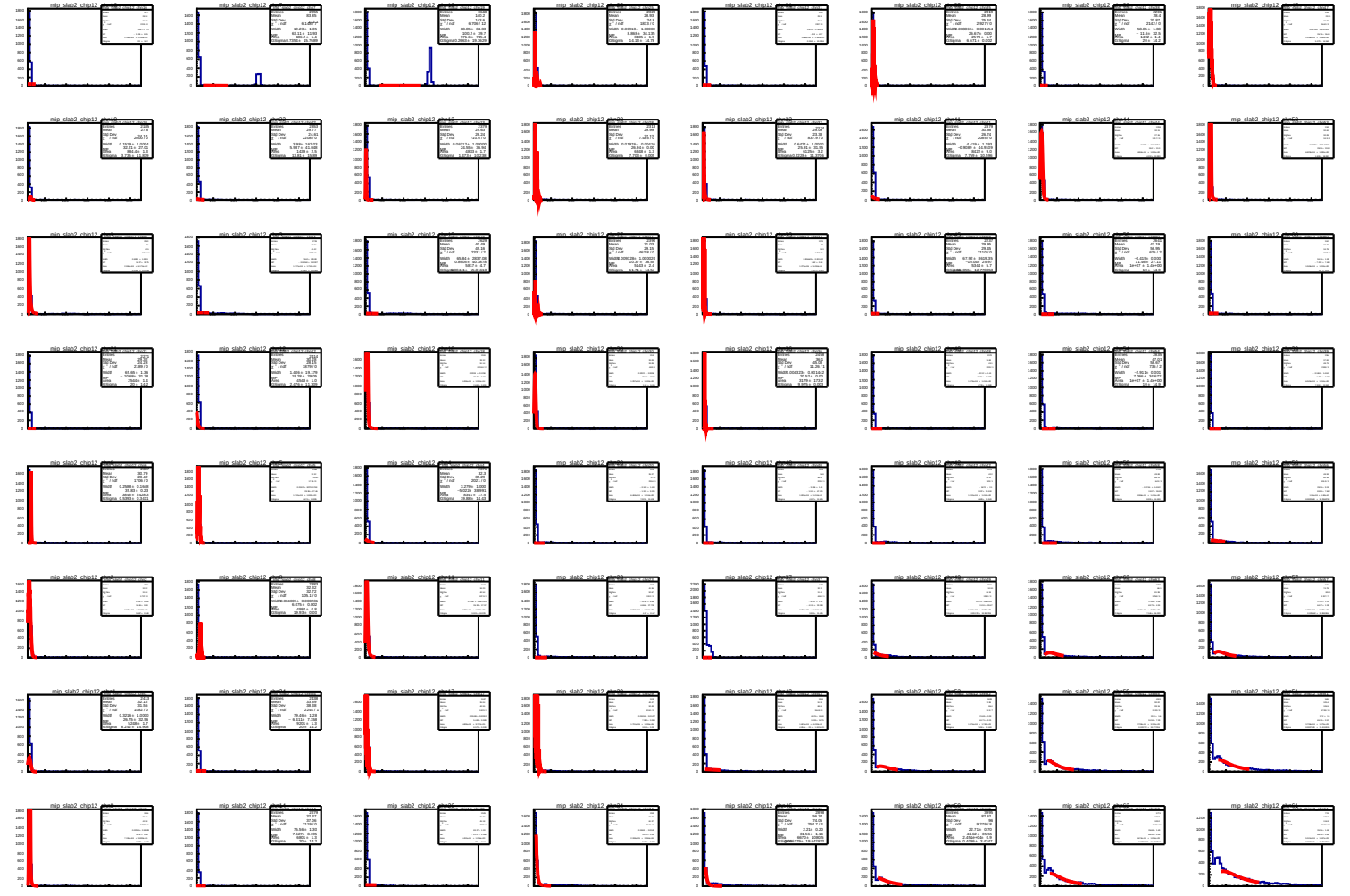

mip slab1 chip15 chan22
Entries 1024
Mean 192.1
Std Dev 19.3
χ² / ndf 19.3 / 23
Width 16.73 ± 1.02
MPV 187.4 ± 2.5
Integral 10.5 ± 0.1
Chi2 Probability 0.6103

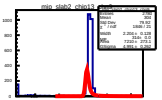

mip slab1 chip15 chan23

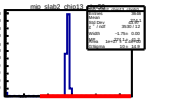

mip slab1 chip15 chan24

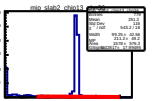

mip slab1 chip15 chan25

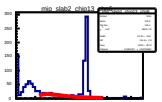

mio_slab2_chin5_strip2
180
160
140
120
100
80
60
40
20
0
Entries 1000
Mean 0.0
Mean x 0.0
RMS 0.0
RMS x 0.0
Integral 1000.
Skew 0.0
Skew x 0.0
Underflow 0.0
Overflow 0.0

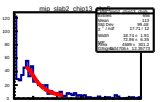


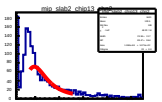

mip slab2 chip13

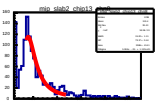

mip slab2 chip13

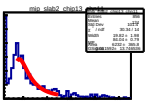

mip slab2 chip13

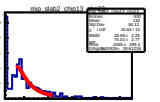

mip slab2 chip13

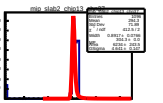

mip slab2 chip13

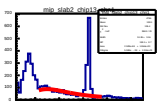

mip slab2 chip13

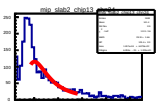

mip slab2 chip13

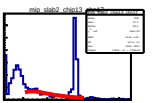

mip slab2 chip13

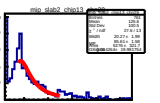

mip slab2 chip13

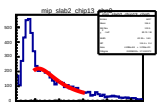

mip slab2 chip13

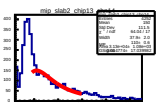

mip slab2 chip13

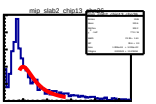

mip slab2 chip13

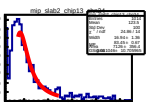

mip slab2 chip13

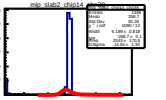

mip slab2 chip13

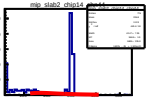

mip slab2 chip13

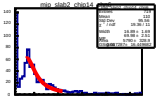

mip slab2 chip13

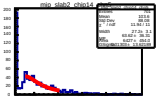

mip slab2 chip13

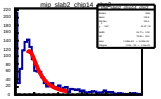

mip slab2 chip13

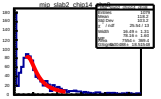

mip slab2 chip14

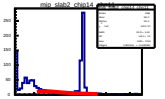

mip slab2 chip14

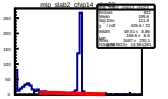

mip slab2 chip14

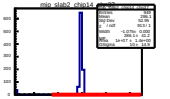

mip slab2 chip14

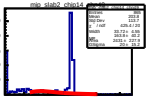

mip slab2 chip14

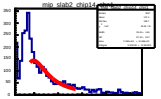

mip slab2 chip14

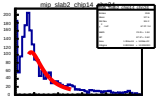

mip slab2 chip14

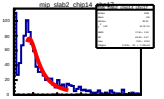

mip slab2 chip14

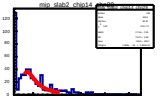

mip slab2 chip14

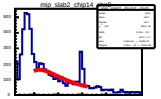

mip slab2 chip14

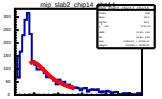

mip slab2 chip14

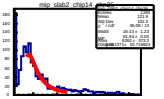

mip slab2 chip14

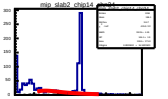

mip slab2 chip14

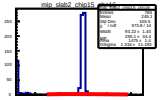

mip slab2 chip14

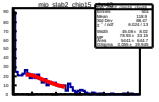

mip slab2 chip14

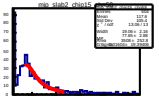

mip slab2 chip14

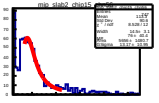

mip slab2 chip14

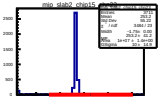

mip slab2 chip14

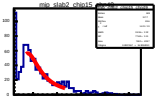

mip_slab2_chip15_chan32
Entries 2453
Mean 339.5
Std Dev 9.718 / 10
χ² / ndf 99.22 / 1.00
Width 1.49 / 0.01
MPV 1.874 ± 0.0
Integral 1.3767 ± 0.00

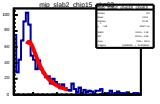

mip_slab2_chip15_chan48
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 2010 / 13
Width 45.85 ± 0.43
MPV 75.93 ± 10.15
Integral 5424 ± 9.6E-2
Integral 5.05E-4

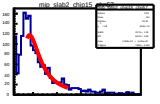

mip_slab2_chip15_chan56
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 13.06 / 13
Width 23.06 ± 2.16
MPV 39.66 ± 2.52
Integral 1.0E-3
Integral 1.0E-3

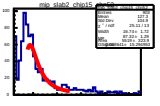

mip_slab2_chip15_chan64
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 8.628 / 12
Width 18.94 ± 1.1
MPV 30.66 ± 1.52
Integral 1.0E-3
Integral 1.0E-3

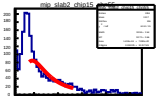

mip_slab2_chip15_chan24
Entries 2453
Mean 339.5
Std Dev 9.718 / 10
χ² / ndf 3484 / 10
Width -1.75e- 0.01
MPV -15.23 ± 21.2
Integral 5.47E-7 ± 0.0
Integral 5.47E-7

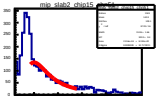

mip_slab2_chip15_chan40
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

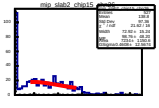

mip_slab2_chip15_chan48
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

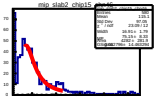

mip_slab2_chip15_chan56
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

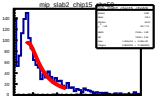

mip_slab2_chip15_chan64
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

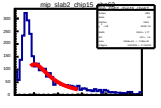

mip_slab2_chip15_chan72
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

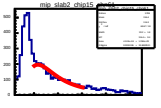

mip_slab2_chip15_chan80
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

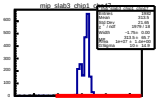

mip_slab2_chip15_chan16
Entries 2453
Mean 339.5
Std Dev 21.627 / 19
χ² / ndf 72.92 ± 15.26
Width 15.26 ± 0.34
MPV 225.0 ± 1.06E-6
Integral 4.60E-4 ± 0.0E-0

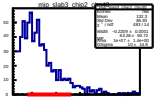

mip_slab2_chip15_chan8
Entries 2453
Mean 339.5
Std Dev 23.00 / 13
χ² / ndf 19.91 ± 1.79
Width 1.01 ± 0.01
MPV 159.0 ± 191.9
Integral 7.7E-3 ± 14.0E-0


mip_slab2_chip15_chan32
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

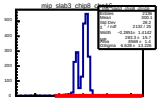

mip_slab2_chip15_chan40
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

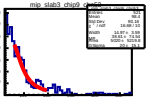

mip_slab2_chip15_chan48
Entries 1154
Mean 139.9
Std Dev 38.17
χ² / ndf 1.0e+ 0.00
Width 1.0e+ 0.00
MPV 1.0e+ 0.00
Integral 1.0E-3
Integral 1.0E-3

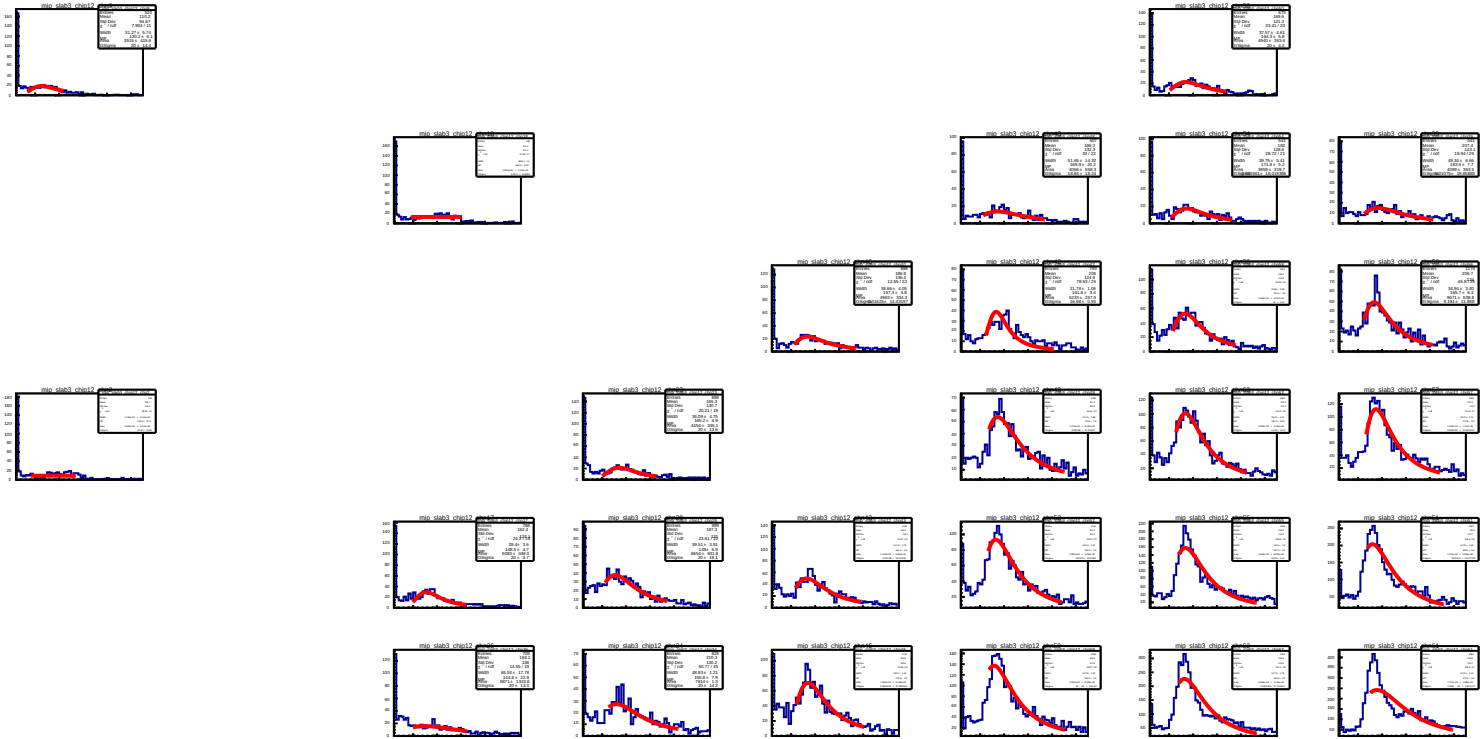

mip_slab3_chip1_chan0
Mean 2.2
Std Dev 23.05
χ2 / ndf 26/50.19
Width 14.78± 19.2
MPV 2.2± 2.2
Sigma 0.01± 0.01
Integral 2.01± 1.01
600
500
400
300
200
100
0

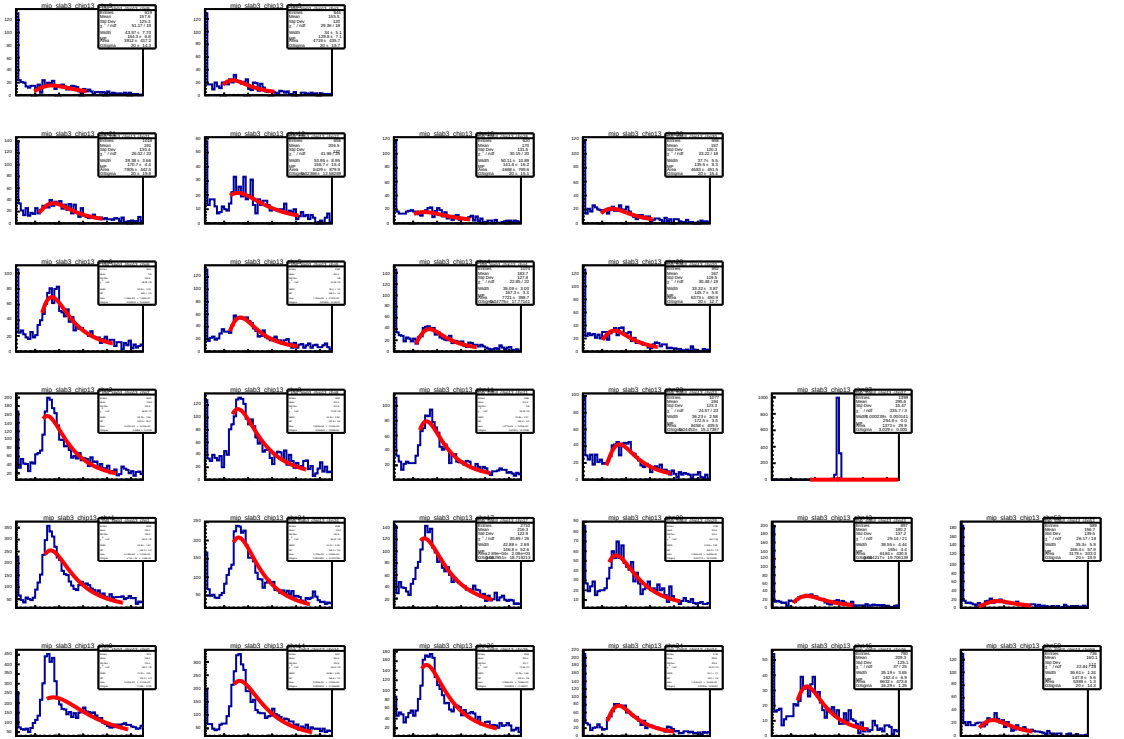

mip slab3 chn2 c
Entries 1372
Mean 24.12
Std Dev 10.12
χ / ndf 2017.14
Prob 0
Mean -0.2253 ± 0.0253
Sigma 1.0000 ± 0.0000
MPV 14.017 ± 1.4410
Area 1372 ± 0
50
40
30
20
10
0

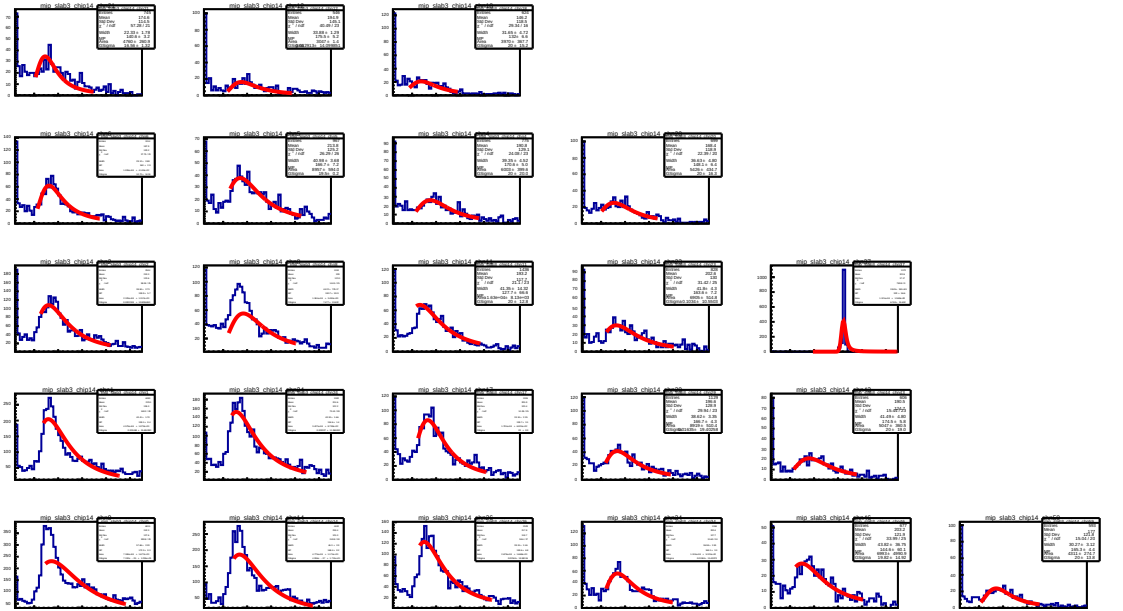
mip_slab3_chuf5_cmb3
Mixed Integer Solution
Objective 0.000
Nodes 1
Solution Time 0.000
Variables 1
Constraints 1
Objective Sense Minimize
Solution Status Optimal
Solution Source Cbc
450
400
350
300
250
200
150
100
50
0

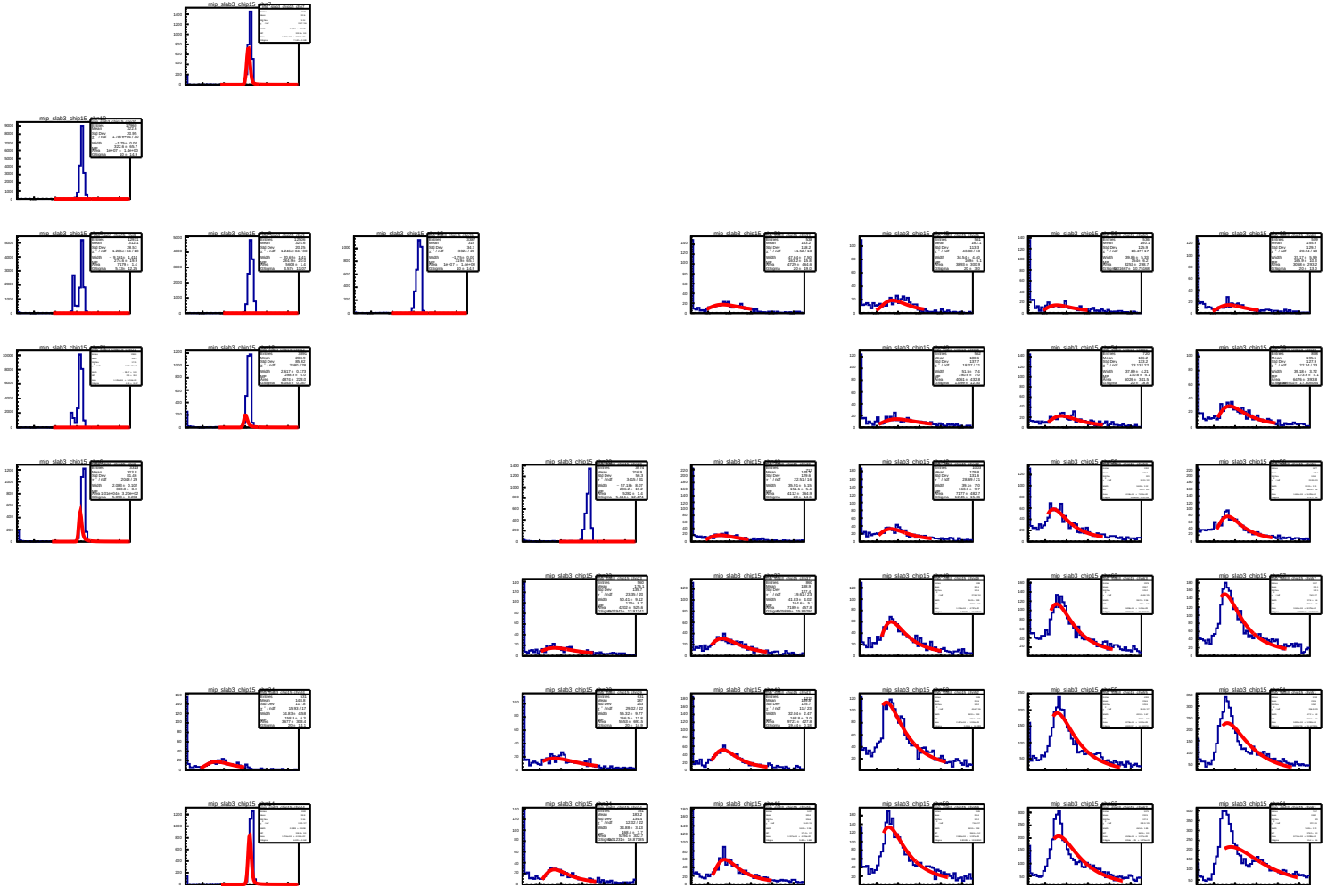

msp_slab3_chip8_strip5
Entries 1000
Mean 0.2
Std Dev 20.2
χ² / ndf 2157.70
Amplitude 0.4187 ± 0.0140
Mean -0.2854 ± 0.0147
Sigma 3.0 ± 0.0
Integrals 4.4187 ± 0.1395
500
400
300
200
100
0

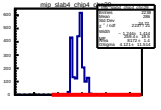

mip slab3 chip0
Entries 7000
Mean 3.4
Underflow 0
Overflow 0
χ² / ndf 14.00 / 13
Width 12.97 ± 0.08
MPV 3.000 ± 0.000
Area 6.5e+03
Sigma 0.0e+00
Constant 6.5e+03

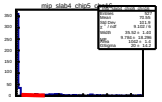

mip slab3 chip12

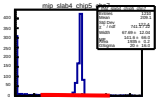


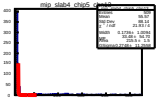




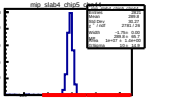

mip slab4 chb4 ptm20
Entries 1000
Mean 1.000
Std Dev 0.000
χ² / ndf 2.229 / 15
Prob 0.9999
Mean x 5.000 ± 0.000
Mean y 1.000 ± 0.000
Integral 1.000 ± 0.000
600
500
400
300
200
100
0

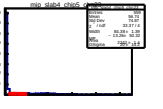

mip_slab4_chip5_ch15
Entries 1000
Mean 79.55
Std Dev 151.9
χ² / ndf 9.103 / 9
Width 29.52 ± 1.42
Area 9.7e+03 ± 1.4e+02
MPV 1.02e+ 1.4
Sigma 20 ± 1.3

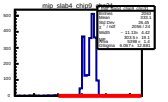

mip_slab4_chip5_ch16
Entries 2000
Mean 254.3
Std Dev 111.5
χ² / ndf 77.14 / 11
Width 57.99 ± 10.10
Area 1.1e+04 ± 1.1e+02
MPV 1.03e+ 0.7
Sigma 20 ± 0.6

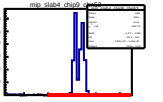

mip_slab4_chip5_ch18
Entries 1000
Mean 16.57
Std Dev 211.13
χ² / ndf 0.1739e+ 5.2e+04
Width 7.205 ± 0.6
Area 7.205 ± 0.6
MPV 0.1739e+ 1.5e+04
Sigma 0.1739e+ 1.5e+04

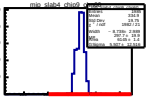
mip_slab4_chip5_ch17
Entries 1000
Mean 60.7
Std Dev 81.71
χ² / ndf 29.59 / 7
Width 19.84 ± 19.12
Area 1.1e+04 ± 1.1e+02
MPV 1.02e+ 0.8
Sigma 20 ± 0.8

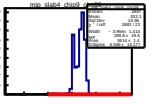

mip_slab4_chip5_ch19
Entries 2000
Mean 280.8
Std Dev 270.1
χ² / ndf 2761 / 16
Width 0.75e+ 0.90
Area 1.4e+04 ± 1.4e+02
MPV 1e+07 ± 1.2e+02
Sigma 20 ± 0.9

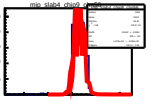

mip_slab4_chip5_ch20
Entries 1000
Mean 35.72
Std Dev 33.37
χ² / ndf 33.37 / 4
Width 80.28 ± 1.35
Area −13.26e+ 96.13
MPV 7.88e+ 2.8
Sigma

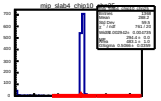
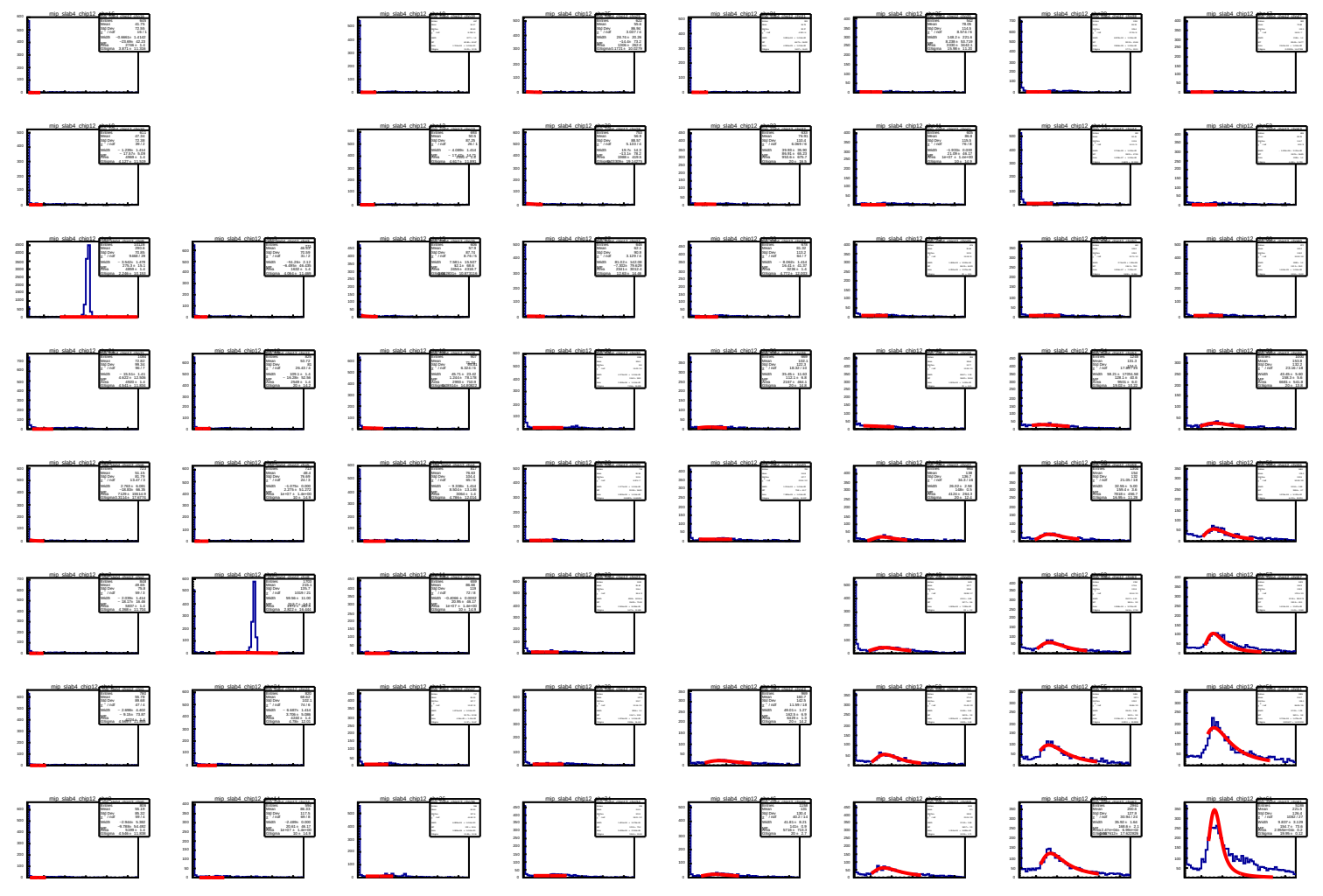
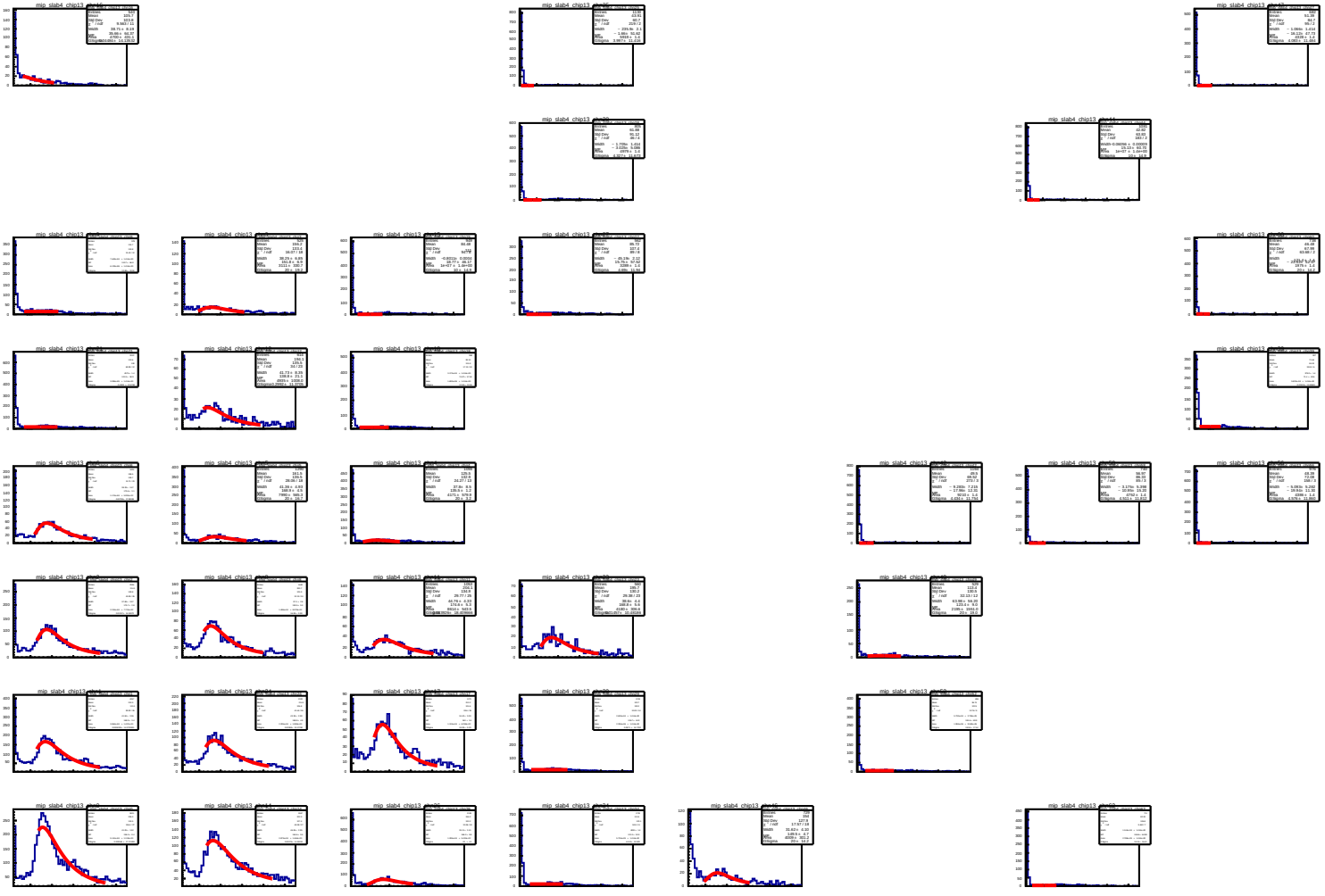
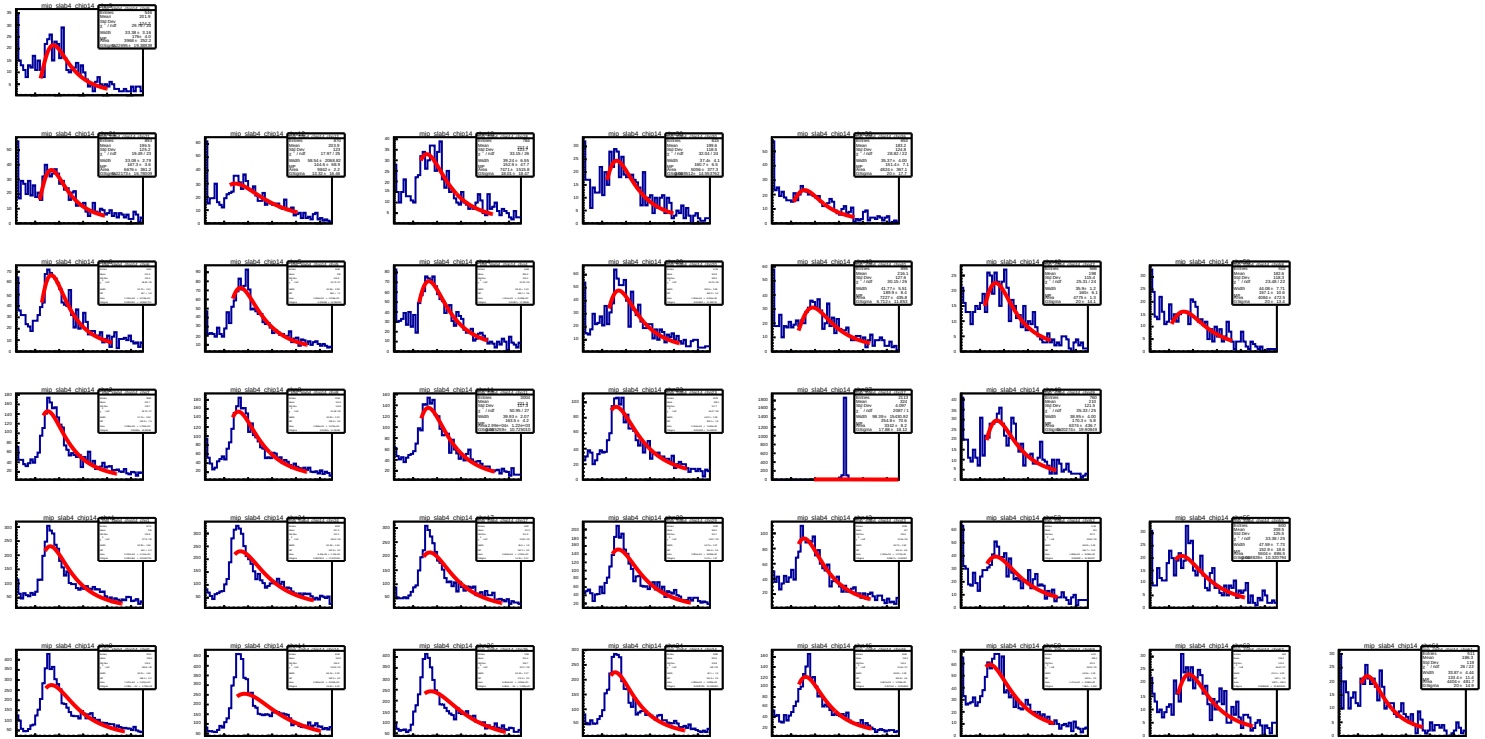
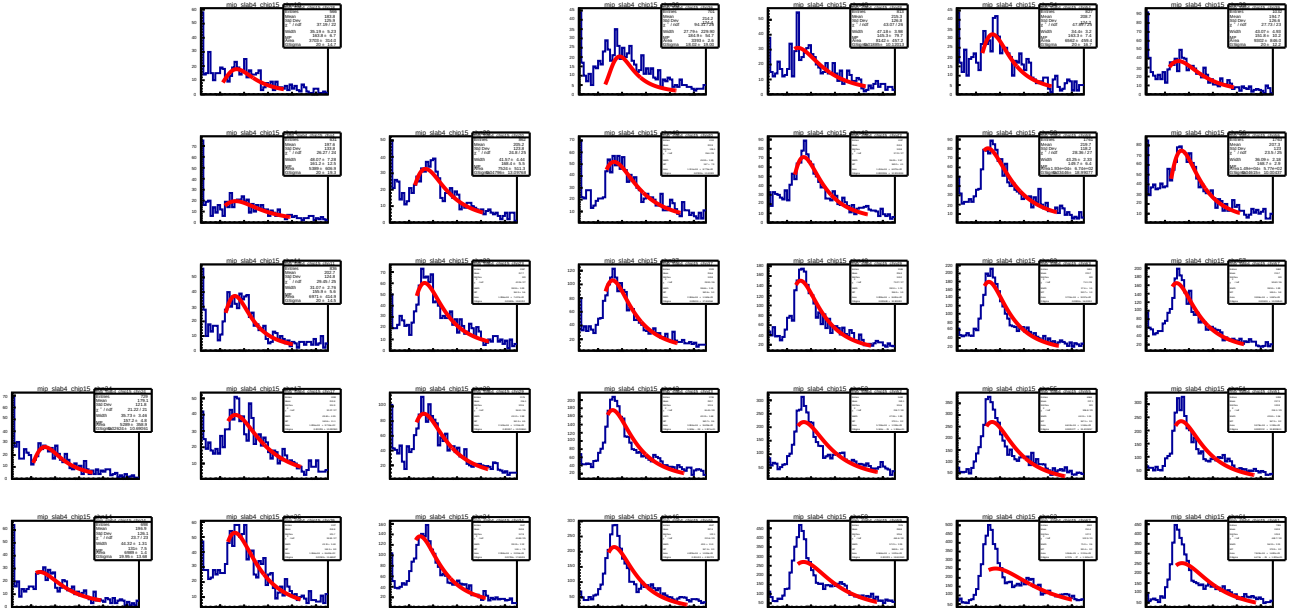

mip_slab4_chip2_ch24
Entries 2221
Mean 26.05
Std Dev 2090.19
Mean 31.53± 6.62
Std Dev 2090.19± 4.68
MPV 1594.1 ± 1.1
Sigma 0.0471 ± 0.001


mip_slab4_chip2_ch25


mip_slab4_chip2_ch26
Entries 2419
Mean 2.6±0.8
Std Dev 1663.71
Mean -0.7291± 2.9858
MPV 2017.4 ± 0.4
Sigma 0.0471 ± 0.0101


mip_slab4_chip2_ch27
Entries 2412
Mean 23.0±0.8
Std Dev 1.48
Mean -3.0842± 2.8142
MPV 2018.5 ± 0.4
Sigma 0.0471 ± 0.0
Sigma 0.0471± 0.0


mip_slab4_chip2_ch28


mip_slab4_chin31_mc_05
Entries 2000
Mean 2.012
Std Dev 17.5
χ² / ndf 793.7 / 5
Prob 0.00e-01
Constant 2.00e+03
Mean 2.01 ± 0.01
Sigma 0.0000 ± 0.0000
700
600
500
400
300
200
100
0