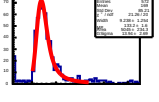
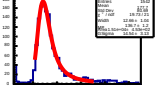
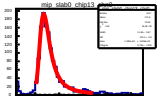
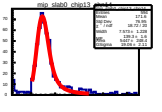
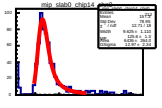
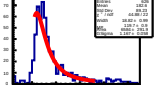

mip_slab0_chip12_chan30
Entries 1000
Mean 9.32
Std Dev 99.22
χ² / ndf 21.38 / 22
Width 9.238 ± 1.294
MPV 8.000 ± 0.000
Area 6020 ± 243.3
Sigma 13.94 ± 2.05

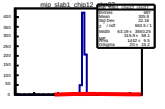

mip_slab0_chip12_chan31
Entries 1000
Mean 11.14
Std Dev 127.6
χ² / ndf 19.70 / 21
Width 12.60 ± 1.32
MPV 8.000 ± 0.000
Area 11.5e+06 ± 2.0e+03
Sigma 16.62 ± 1.71

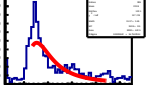

mip_slab0_chip13
Entries 1000
Mean 1.000
RMS 0.0000
Underflow 0
Overflow 0
Integral 1000.
Skewness 0.0000
Kurtosis 0.0000
Mean x 1.000
Mean y 1.000
Std Dev x 0.0000
Std Dev y 0.0000
Total Sum 1000.

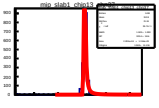

mip_slab0_chip13
Entries 1000
Mean 19.19
RMS 0.0000
Underflow 0
Overflow 0
Integral 1000.
Skewness 0.0000
Kurtosis 0.0000
Mean x 19.19
Mean y 1.000
Std Dev x 0.0000
Std Dev y 0.0000
Total Sum 1000.

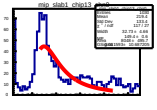

msp_slab0_chip14_adc
Entries 12750
Mean 28.58
RMS 12.71 / 18
Width 9.626 ± 1.110
Sigma 12.97 ± 0.71
MPV 9.339 ± 240.0
Integral 12.97 ± 0.71
100
80
60
40
20
0

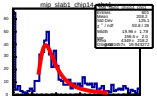

mip slab0 chip15 ped0
Entries 1000
Mean 19.12
Underflow 0
Overflow 0
χ² / ndf 11.80 / 17
Width 10.80 ± 0.96
Sigma 1.167 ± 0.102
MPV 9.000 ± 20.5
Eta 0.000 ± 0.000
Sigma 1.167 ± 0.102

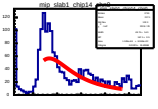

mip_slab1_chip12_chan28
Landau+Gaussian+Gaussian
Mean 315.8
Sigma 20.9
Area 6653.9 ± 1
Chi2 / NDF
Mean 53.24 ± 3850.23
Sigma 315.6 ± 58.4
Mean 1214 ± 0.3
Sigma 122 ± 0.3
400
350
300
250
200
150
100
50
0

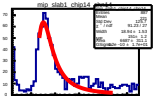

mip_slab1_chip12_chan28
Landau+Gaussian+Gaussian
Mean 315.8
Sigma 20.9
Area 6653.9 ± 1
Chi2 / NDF
Mean 53.24 ± 3850.23
Sigma 315.6 ± 58.4
Mean 1214 ± 0.3
Sigma 122 ± 0.3
80
75
70
65
60
55
50
45
40
35
30
25
20
15

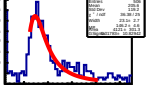

mip slab1 chip13 chan2
Entries 1000
Mean 0.0
RMS 0.0
Underflow 0
Overflow 0
Integral 1000.
Skewness 0.000
Kurtosis 0.000
Constant 1000.
Mean 0.0
Sigma 0.0
900
800
700
600
500
400
300
200
100
0

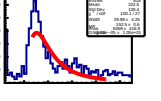

mip slab1 chip13 chan2
Entries 1000
Mean 33.64
RMS 3.04
Underflow 0
Overflow 0
Integral 1000.
Skewness 0.000
Kurtosis 0.000
Constant 1000.
Mean 32.73 ± 0.06
Sigma 1.00 ± 0.05
MPV 33.03 ± 0.05
Integral 1000.0 ± 32.0
70
60
50
40
30
20
10
0

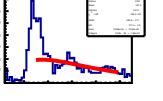

mip slab1 chip14 chnl1
Entries 1000
Mean 39.27
Std Dev 129.1
χ² / ndf 97.12 / 7
Const 19.90 ± 2.79
MPV 100.9 ± 2.0
Width 21.00 ± 0.97
Magnitude 24.0 ± 0.7

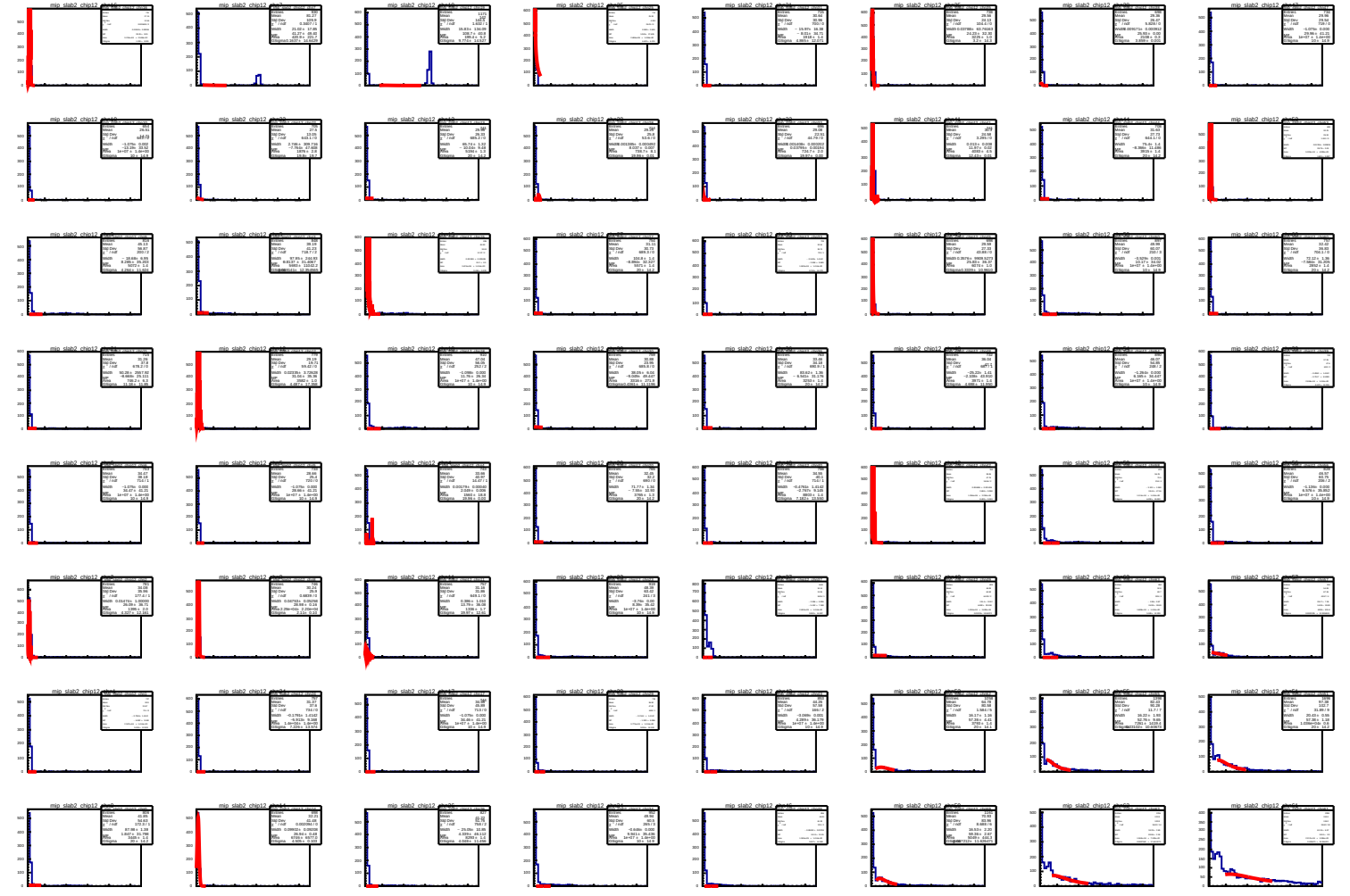

mip slab1 chip14 chnl2
Entries 1000
Mean 39.27
Std Dev 129.1
χ² / ndf 97.12 / 7
Const 19.90 ± 2.79
MPV 100.9 ± 2.0
Width 21.00 ± 0.97
Magnitude 24.0 ± 0.7

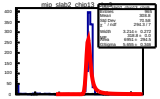

mip slab1 chip14 chnl3
Entries 1000
Mean 39.27
Std Dev 129.1
χ² / ndf 97.12 / 7
Const 19.90 ± 2.79
MPV 100.9 ± 2.0
Width 21.00 ± 0.97
Magnitude 24.0 ± 0.7

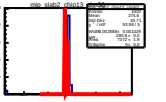

mip slab1 chip15 chan5
Entries 2000
Mean 119.2
Std Dev 119.2
χ² / ndf 1.07 / 4
Const 23.31 ± 2.7
MPV 128.2 ± 0.6
Sigma 10.01 ± 0.6
Prob 0.8977
Chi2 / NDF Fit: 10.6963

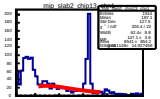

mip slab1 chip15 chan10
Entries 2000
Mean 103.2
Std Dev 100.8
χ² / ndf 1.03 / 1.17
Const 29.89 ± 0.25
MPV 103.1 ± 0.1
Sigma 4.000 ± 0.05
Prob 0.3577
Chi2 / NDF Fit: 1.20145

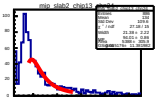

mip slab1 chip15 chan15
Entries 2000
Mean 87.7
Std Dev 87.7
χ² / ndf 0.9 / 1
Const 1.000 ± 0.000
MPV 0.000 ± 0.000
Sigma 0.000 ± 0.000
Prob 0.3437
Chi2 / NDF Fit: 0.9

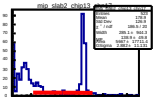


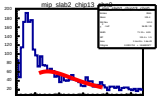

mip slab2 chip13

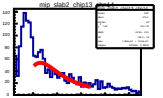

mip slab2 chip13

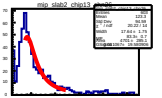

mip slab2 chip13

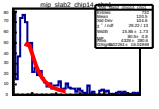

mip slab2 chip13

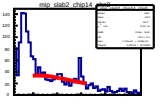

mip slab2 chip13

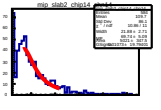

mip slab2 chip13

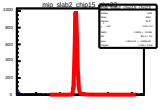

mip slab2 chip13

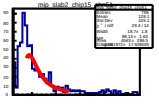

mip slab2 chip13

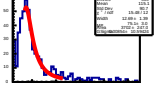

mip_slab2_chip14_chn1
Entries 10000
Mean 33.11
Std Dev 33.68
χ² / ndf 29.27 / 19
Width 23.88 ± 2.73
MPV 80.54 ± 0.8
Area 5221 ± 167.5
Prob 0.0651
Integral(1171) 10.0000

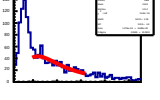

mip_slab2_chip14_chn2
Entries 10000
Mean 34.7
Std Dev 32.08
χ² / ndf 12.08 / 11
Width 21.88 ± 2.73
MPV 80.54 ± 0.8
Area 5221 ± 167.5
Prob 0.3377
Integral(1171) 10.0000

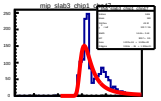

mip_slab2_chip14_chn3
Entries 10000
Mean 33.7
Std Dev 32.07
χ² / ndf 12.08 / 11
Width 21.88 ± 2.73
MPV 80.54 ± 0.8
Area 5221 ± 167.5
Prob 0.3377
Integral(1171) 10.0000

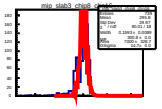

mip_slab2_chip15_chan13
Entries 1000
Mean 0.0
Std Dev 0.0
χ² / ndf 0.0
Constant 1000.0
Mean 0.0
Sigma 0.0
Prob 0.0000
Chi2 0.0000

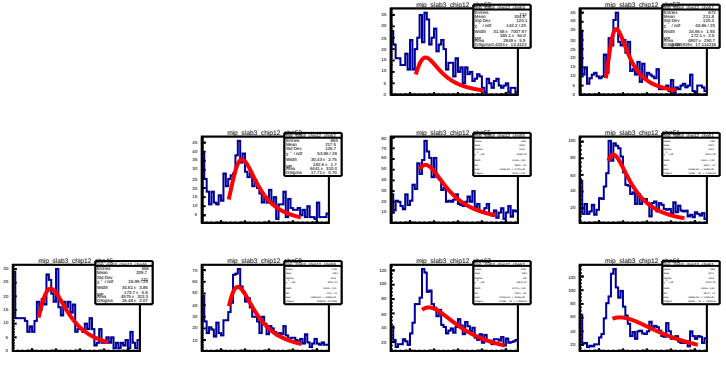

mip_slab2_chip15_chan15
Entries 1000
Mean 105.1
Std Dev 105.1
χ² / ndf 0.0
Constant 18.70 ± 1.18
Mean 88.10 ± 1.18
Sigma 17.00 ± 0.83
Prob 0.0000
Chi2 17.0000


mip_slab2_chip15_chan16
Entries 1000
Mean 105.1
Std Dev 105.1
χ² / ndf 15.00 / 12
Constant 12.00 ± 1.39
Mean 105.1 ± 0.0
Sigma 37.02 ± 2.07
Prob 0.2420
Chi2 10.0000


mip_slab2_chip15_chan14
Entries 1000
Mean 105.1
Std Dev 105.1
χ² / ndf 0.0
Constant 0.0
Mean 0.0
Sigma 0.0
Prob 0.0000
Chi2 0.0000


mip_slab3_chip1_chan3
Entries 1000
Mean 0.7
RMS 0.1
Underflow 0
Overflow 0
Integral 1000
Skewness 1.7
Kurtosis 3.9
Constant 0.0000E+00
Mean 0.7000E-01
Sigma 0.1000E-01
300
250
200
150
100
50
0


msp_slab3_chip8_c4ch5
Statistics on Histogram
Entries 294.0
Mean 29.97
Rms 50.17 ± 0.0
Underflow 0.1000e+ 0.1000e
Overflow 0.0000e+ 0.0000e
Integral 294.0 ± 17.1
Skewness 14.41 ± 0.1
180
160
140
120
100
80
60
40
20
0


mip_slab3_chip12_chan55
Entries 2127
Mean 1.42
Std Dev 2.29
χ² / ndf 1422.2 / 29
Width 31.98 ± 7007.67
MPV 395.4 ± 84.0
Area 1.0 ± 0.0
Chi2/ndf=49.1 ± 241.6
mip_slab3_chip12_chan56
Entries 2127
Mean 1.42
Std Dev 2.29
χ² / ndf 60.86 / 45
Width 21.00 ± 3.91
MPV 372.4 ± 31.9
Area 1.0 ± 0.0
Chi2/ndf=1.3 ± 0.0
mip_slab3_chip12_chan57
Entries 2127
Mean 1.42
Std Dev 2.29
χ² / ndf 1.7e+04 / 29
Width 35.63 ± 2.75
MPV 1.0e+04 ± 1.0e+04
Area 0.82 ± 0.2
Chi2/ndf=0.0 ± 0.0
mip_slab3_chip12_chan58
mip_slab3_chip12_chan59
mip_slab3_chip12_chan60
mip_slab3_chip12_chan61
mip_slab3_chip12_chan62
mip_slab3_chip12_chan63
mip_slab3_chip12_chan64
mip_slab3_chip12_chan65
mip_slab3_chip12_chan66
mip_slab3_chip12_chan67
mip_slab3_chip12_chan68
mip_slab3_chip12_chan69
mip_slab3_chip12_chan70
mip_slab3_chip12_chan71
mip_slab3_chip12_chan72
mip_slab3_chip12_chan73
mip_slab3_chip12_chan74
mip_slab3_chip12_chan75
mip_slab3_chip12_chan76
mip_slab3_chip12_chan77
mip_slab3_chip12_chan78
mip_slab3_chip12_chan79
mip_slab3_chip12_chan80
mip_slab3_chip12_chan81
mip_slab3_chip12_chan82
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mip_slab3_chip12_chan95
mip_slab3_chip12_chan96
mip_slab3_chip12_chan97
mip_slab3_chip12_chan98
mip_slab3_chip12_chan99
mip_slab3_chip12_chan100
mip_slab3_chip12_chan101
mip_slab3_chip12_chan102
mip_slab3_chip12_chan103
mip_slab3_chip12_chan104
mip_slab3_chip12_chan105
mip_slab3_chip12_chan106
mip_slab3_chip12_chan107
mip_slab3_chip12_chan108
mip_slab3_chip12_chan109
mip_slab3_chip12_chan110
mip_slab3_chip12_chan111
mip_slab3_chip12_chan112
mip_slab3_chip12_chan113
mip_slab3_chip12_chan114
mip_slab3_chip12_chan115
mip_slab3_chip12_chan116
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mip_slab3_chip12_chan126
mip_slab3_chip12_chan127
mip_slab3_chip12_chan128
mip_slab3_chip12_chan129
mip_slab3_chip12_chan130
mip_slab3_chip12_chan131
mip_slab3_chip12_chan132
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mip_slab3_chip12_chan139
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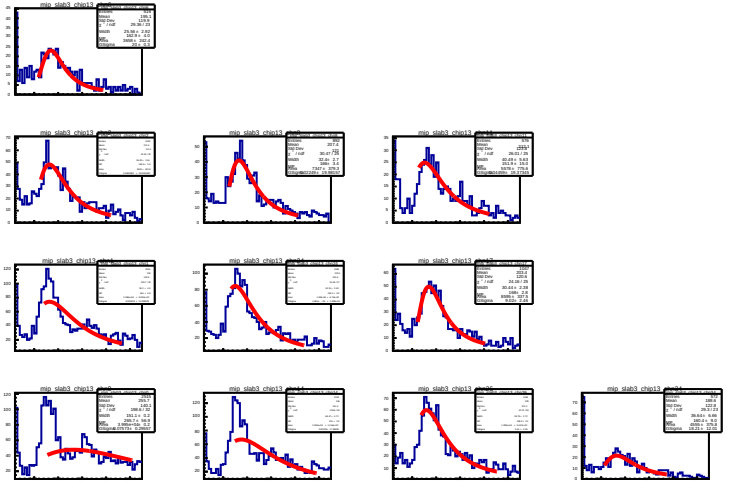
mip_slab3_chip12_chan143


mip_slab3_chip13
mip_slab3_chip13
mip_slab3_chip13
mip_slab3_chip13
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mip_slab3_chip13
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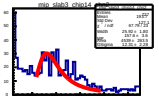
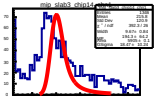
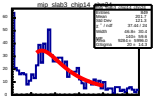
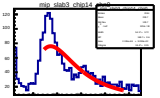
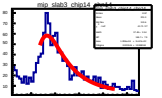
mip_slab3_chip13

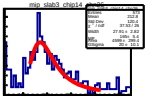

mip_slab3_chip14_chan1
Entries 1714
Mean 67.07
Std Dev 17.14
χ² / ndf 29.92 / 16
Constant 137.6 ± 3.6
Mean 67.07 ± 0.42
Sigma 17.14 ± 0.29


mip_slab3_chip14_chan1
Entries 2917
Mean 113.0
Std Dev 12.0
χ² / ndf 392.0 / 16
Constant 9.67 ± 0.61
Mean 134.3 ± 0.2
Sigma 12.27 ± 0.12

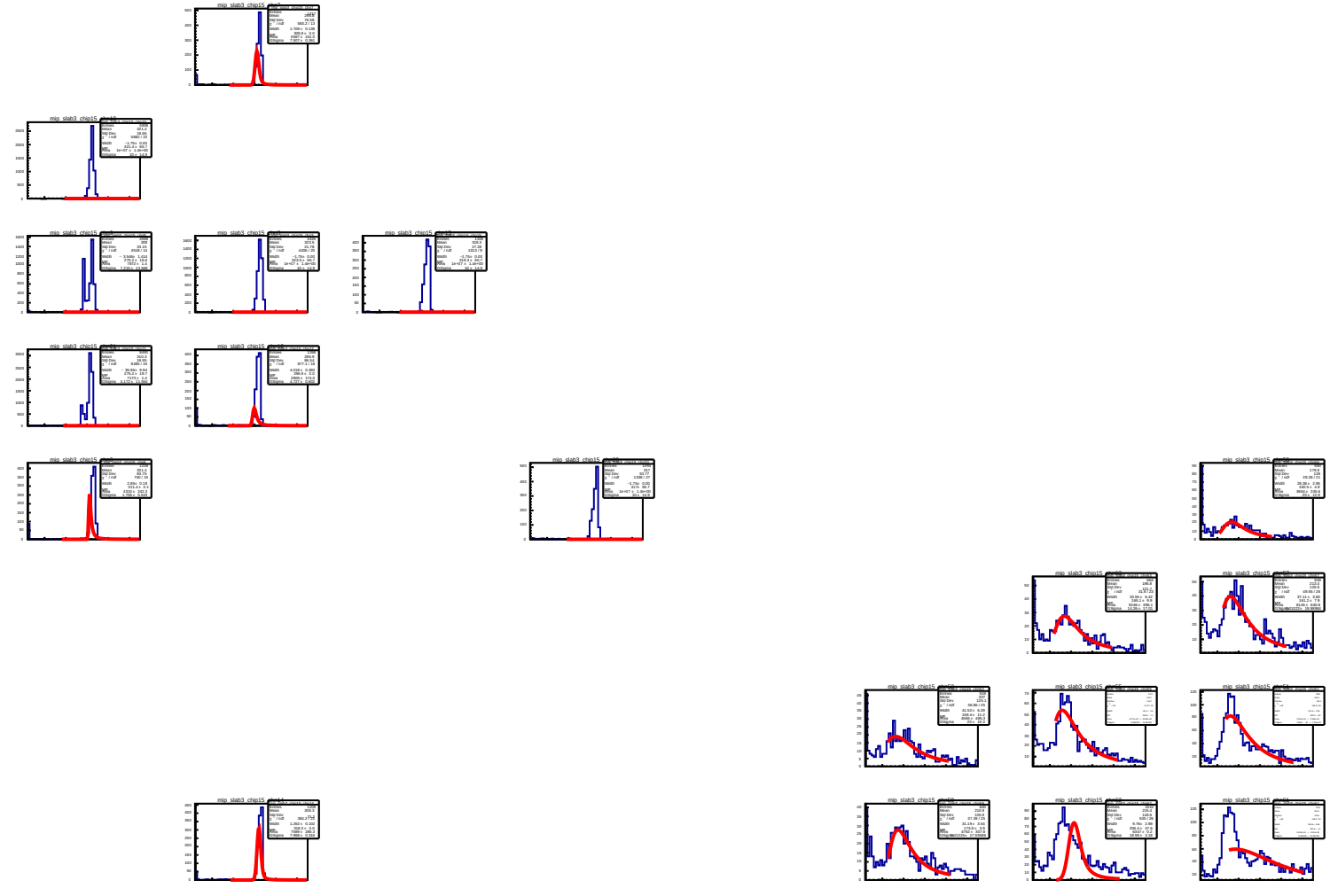

mip_slab3_chip14_chan1
Entries 2217
Mean 121.0
Std Dev 11.3
χ² / ndf 14.4 / 16
Constant 16.31 ± 0.4
Mean 145.4 ± 0.6
Sigma 10.8 ± 0.3

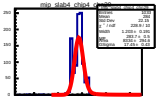

mip_slab3_chip14_chan1
Entries 1967
Mean 54.1
Std Dev 14.0
χ² / ndf 14.4 / 16
Constant 14.4 ± 0.4
Mean 54.1 ± 0.3
Sigma 14.0 ± 0.2

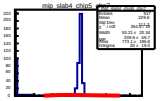

mip_slab3_chip14_chan1
Entries 2217
Mean 37.4
Std Dev 8.4
χ² / ndf 37.4 / 16
Constant 37.55 ± 2.82
Mean 37.4 ± 0.1
Sigma 8.9999 ± 0.0911

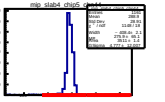

mip_slab3_chip14_chan1
Entries 2217
Mean 29.2
Std Dev 6.1
χ² / ndf 13.8 / 16
Constant 29.1 ± 0.1

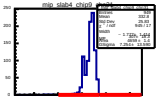
mip_slab3_chip14_chan1
Entries 2217
Mean 61.92
Std Dev 10.1
χ² / ndf 139.8 / 1
Constant 39.99 ± 1.43
Mean −0.0000 ± 0.0000
Sigma 1.000 ± 0.0
Integral 2217 ± 0.0

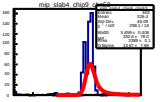

mip slab3 chip15
mip slab3 chip15
mip slab3 chip15

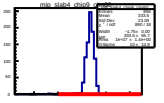

mip slab4 cbld ptm20
Entries 2000
Mean 22.14
Std Dev 22.16
χ² / ndf 1.000 / 1
Prob 0.3175
1.2924 ± 0.045
Mpv 282.7 ± 0.5
Sigma 57.814 ± 0.6
Integral 57.814 ± 0.6
300
250
200
150
100
50
0

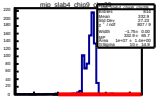

mip slab4 chip5 chan2
Entries 2014
Mean 37.8
Std Dev 1.7
χ² / ndf 53.31 / 20
Constant 778.1 ± 48.6
Mean 37.8 ± 0.0
Sigma 0.7 ± 0.0

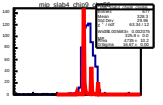

mip slab4 chip5 chan3
Entries 2188
Mean 38.8
Std Dev 1.7
χ² / ndf 13.87 / 18
Constant 408.0 ± 1.1
Mean 38.8 ± 0.0
Sigma 0.7 ± 0.0

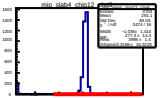

mip_slab4_chip2_ch24
Entries 2017
Mean 29.02
Std Dev 9.01/17
χ² / ndf 2.7 / 1
Prob 0.1
Constant 1.24±1.12
Mean 1.24±1.12
Sigma 1.24±1.12

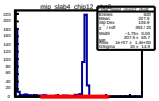

mip_slab4_chip2_ch25
Entries 2017
Mean 29.14
Std Dev 9.01/17
χ² / ndf 256.1 / 13
Prob 0.000
Constant 9.000± 0.000
Mean 28.000± 0.000
Sigma 7.000± 0.1
Constant 11.0±0.1

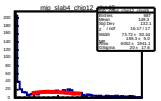

mip_slab4_chip2_ch26
Entries 2017
Mean 29.14
Std Dev 9.01/17
χ² / ndf 203.7 / 13
Prob 0.0
Constant -1.70± 0.20
Mean 200.0± 0.0
Sigma 14±17 -1.1±0.0
Constant 0.0

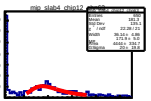

mip_slab4_chip2_ch27
Entries 2017
Mean 29.14
Std Dev 9.01/17
χ² / ndf 22.4 / 13
Prob 0.0
Constant -1.70± 0.20
Mean 200.0± 0.0
Sigma 14±17 -1.1±0.0
Constant 0.0

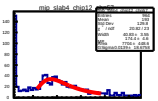

mip_slab4_chip2_ch28
Entries 2017
Mean 29.14
Std Dev 9.01/17
χ² / ndf 63.92 / 13
Prob 0.0
Constant 0.0±0.0/0.0±0.0/0.0
Mean 0.0±0.0/0.0±0.0/0.0
Sigma 0.0±0.0/0.0±0.0/0.0
Constant 0.0±0.0/0.0±0.0/0.0

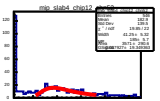

mip_slab4_chip12_ch56
Entries 1000
Mean 292.1
Std Dev 2.977
χ² / ndf 3.032 / 16
Width -0.0391 ± 1.414
MPV 177.9 ± 12.2
Area 1.000 ± 0.016
Integral(data) 1.000 ± 0.016

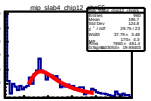

mip_slab4_chip12_ch55
Entries 1000
Mean 292.1
Std Dev 2.977
χ² / ndf 3863.05
Width -1.750 ± 0.01
MPV -273.9 ± 65.3
Area 34.97 ± 0.01
Integral 0.4 ± 0.01

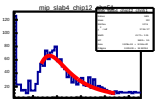

mip_slab4_chip12_ch52
Entries 1000
Mean 1407.1
Std Dev 1.000
χ² / ndf 16.17 / 7
Width 73.72 ± 39.16
MPV 165.9 ± 5.3
Area 999.9 ± 0.3
Integral 31.7 ± 0.3

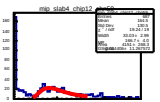

mip_slab4_chip12_ch53
Entries 1000
Mean 1511.1
Std Dev 1.000
χ² / ndf 20.28 / 21
Width 39.14 ± 4.66
MPV 173.4 ± 9.0
Area 999.9 ± 0.3
Integral 31.6 ± 0.3

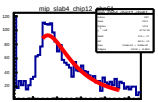

mip_slab4_chip12_ch54
Entries 1000
Mean 1511.1
Std Dev 1.000
χ² / ndf 20.82 / 18
Width 83.83 ± 3.95
MPV 172.4 ± 9.4
Area 999.9 ± 0.3
Integral(data) 31.6 ± 0.3

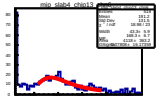

mip_slab4_chip12_ch50
Entries 1000
Mean 1407.1
Std Dev 139.9
χ² / ndf 1.000 / 0
Width 41.29 ± 5.10
MPV 186 ± 0.4
Area 39.77 ± 0.01
Integral(data) 39.77 ± 0.01

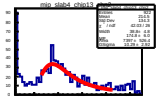

mip_slab4_chip12_ch51
Entries 1000
Mean 1511.1
Std Dev 131.6
χ² / ndf 29.12 / 0
Width 37.75 ± 3.18
MPV 170 ± 2.2
Area 39.77 ± 0.01
Integral(data) 39.77 ± 0.01

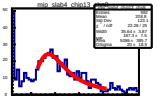

mip_slab4_chip12_ch48
Entries 1000
Mean 1407.1
Std Dev 1.000
χ² / ndf 16.27 / 15
Width 33.03 ± 2.55
MPV 145.1 ± 2.8
Area 1.000 ± 0.016
Integral(data) 1.000 ± 0.016

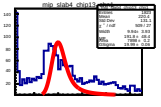

mip_slab4_chip12_ch49
Entries 1000
Mean 1511.1
Std Dev 1.000
χ² / ndf 33.21 / 19
Width 42.47 ± 3.76
MPV 147.9 ± 3.2
Area 47.99 ± 0.01
Integral(data) 47.99 ± 0.01

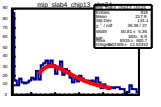

mip_slab4_chip12_ch46
Entries 1000
Mean 1407.1
Std Dev 1.000
χ² / ndf 1.000 / 0
Width -nan ± -nan
MPV -nan ± -nan
Area -nan ± -nan
Integral(data) -nan ± -nan

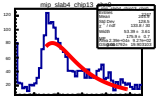

mip_slab4_chip13_strip1
Entries 1024
Mean 191.4
Std Dev 131.2
χ² / ndf 16.06 / 23
Width 18.25 ± 5.5
MPV 110.6 ± 10.2
Integral 1.01e+3 ± 43.7 (1.01e+3)

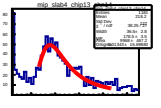

mip_slab4_chip13_strip2
Entries 1024
Mean 213.5
Std Dev 137.1
χ² / ndf 42.03 / 26
Width 39.24 ± 6.6
MPV 173.8 ± 9.0
Integral 1.01e+3 ± 43.7 (1.01e+3)

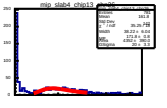

mip_slab4_chip13_strip3
Entries 1024
Mean 217.4
Std Dev 137.1
χ² / ndf 34.07 / 27
Width 39.84 ± 3.91
MPV 167.8 ± 7.5
Integral 1.01e+3 ± 43.7 (1.01e+3)

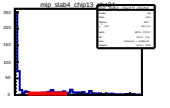

mip_slab4_chip13_strip4
Entries 1024
Mean 251.4
Std Dev 131.1
χ² / ndf 64.7 / 29
Width 9.04 ± 0.22
MPV 191.8 ± 10.2
Integral 1.98e+3 ± 5.2
Integral(0.01,0.99) = 1.98e+3

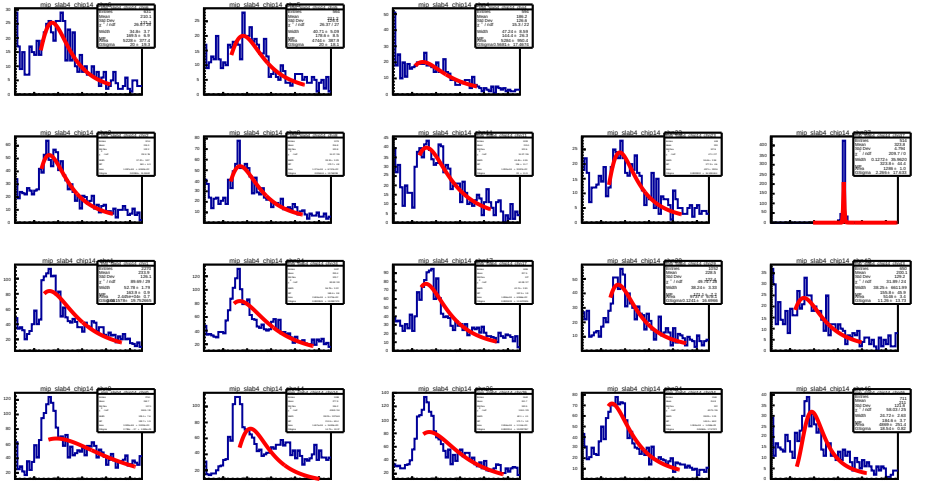

mip_slab4_chip13_strip5
Entries 1024
Mean 212.4
Std Dev 134.1
χ² / ndf 50.81 / 30
Width 10.6 ± 0.9
MPV 83.9 ± 6.7
Integral 9.01e+2 ± 31.9 (9.01e+2)


mip_slab4_chip13_strip6
Entries 1024
Mean 249.6
Std Dev 133.8
χ² / ndf 133.87 / 30
Width 53.39 ± 3.61
MPV 130.7 ± 3.9
Integral 1.24e+4 ± 111.4 (1.24e+4)
Integral(0.01,0.99) = 1.17e+4


mip_slab4_chip13_strip7
Entries 1024
Mean 212.6
Std Dev 136.2
χ² / ndf 36.26 / 27
Width 39.9 ± 2.8
MPV 167.7 ± 6.7
Integral 9.68e+2 ± 42.7 (9.68e+2)
Integral(0.01,0.99) = 1.0e+3


mip_slab4_chip13_strip8
Entries 1024
Mean 261.4
Std Dev 135.1
χ² / ndf 38.22 / 30
Width 8.04 ± 0.24
MPV 191.8 ± 10.2
Integral 1.92e+3 ± 50.0
Integral(0.01,0.99) = 1.92e+3


mip_slab4_chip13_strip9
Entries 1024
Mean 251.4
Std Dev 135.1
χ² / ndf 38.22 / 30
Width 8.04 ± 0.24
MPV 191.8 ± 10.2
Integral 1.92e+3 ± 50.0
Integral(0.01,0.99) = 1.92e+3


mip slab4 chip14
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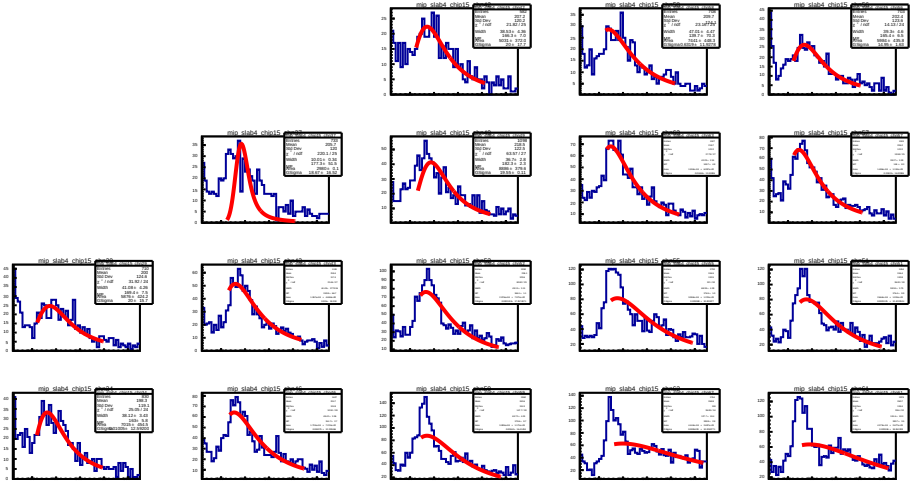
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