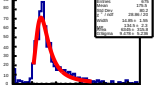
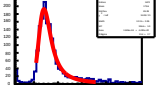
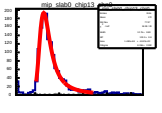
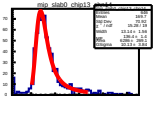
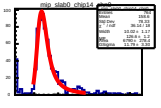
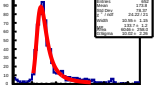

mip_slab0_chip12_ch48
Entries 1000
Mean 70.21
RMS 19.31
χ² / ndf 29.86 / 22
Width 10.85 ± 1.95
MPV 70.00 ± 0.50
Area 4000 ± 105.0
Sigma 4.076 ± 0.23

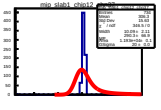

mip_slab0_chip12_ch48

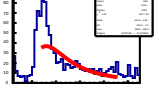

mip slab0 chip13
Entries 1000
Mean 1.1
RMS 0.4
χ² / ndf 19.75 / 19
Width 0.14 ± 0.01
Mean 0.98 ± 0.01
Sigma 0.13 ± 0.01
Integral 1000.0 ± 31.6
Underflow 0
Overflow 0
Total 1000
Mean 1.1
RMS 0.4
Underflow 0
Overflow 0

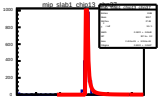

mip slab0 chip13
Entries 1000
Mean 16.7
RMS 4.2
χ² / ndf 16.28 / 15
Width 13.53 ± 1.53
Mean 16.67 ± 0.13
RMS 4.08 ± 0.09
Sigma 13.53 ± 1.53

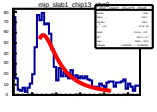

msp_slab0_chip14_adc0
Fit
Entries 7994
Mean 39.61
RMS 7.04
χ² / ndf 36.12 / 19
Width 13.02 ± 1.17
Sigma 11.79 ± 0.06
Mpv 6.780 ± 3.05 ±
Integral 11.79 ± 0.06
100
80
60
40
20
0

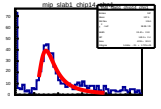

mip_slab0_chip15_pedsub
Entries 2.5E+7
Mean 3.57
Underflow 0
Overflow 0
χ² / ndf 32.27 / 11
Width 3.136 ± 1.15
Sigma 0.0 ± 0.0
MPV 6.028 ± 0.0
Integral 3.03E+ 7

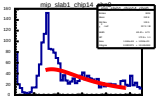

mip_slab1_chip12_chan3
Entries 1000
Mean 355.2
Std Dev 343.6
χ² / ndf 22.09 / 21
Constant 250.3 ± 58.0
MPV 1.11 ± 0.03
Width 0.4 ± 0.0

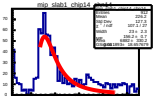

mip_slab1_chip12_chan4

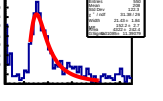

mip_slab1_chip13_chan2
1000
800
600
400
200
0

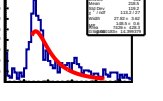

mip_slab1_chip13_chan1
80
70
60
50
40
30
20
10
0

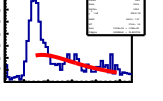

mip slab1 chip14 chan1
Entries 1000
Mean 0.4
RMS 0.4
Underflow 0
Overflow 0
Integral 1000
Skewness 0.8
Kurtosis 0.6
Constant 0.0000E+00
Mean 0.4000E+00
Sigma 0.1000E+00

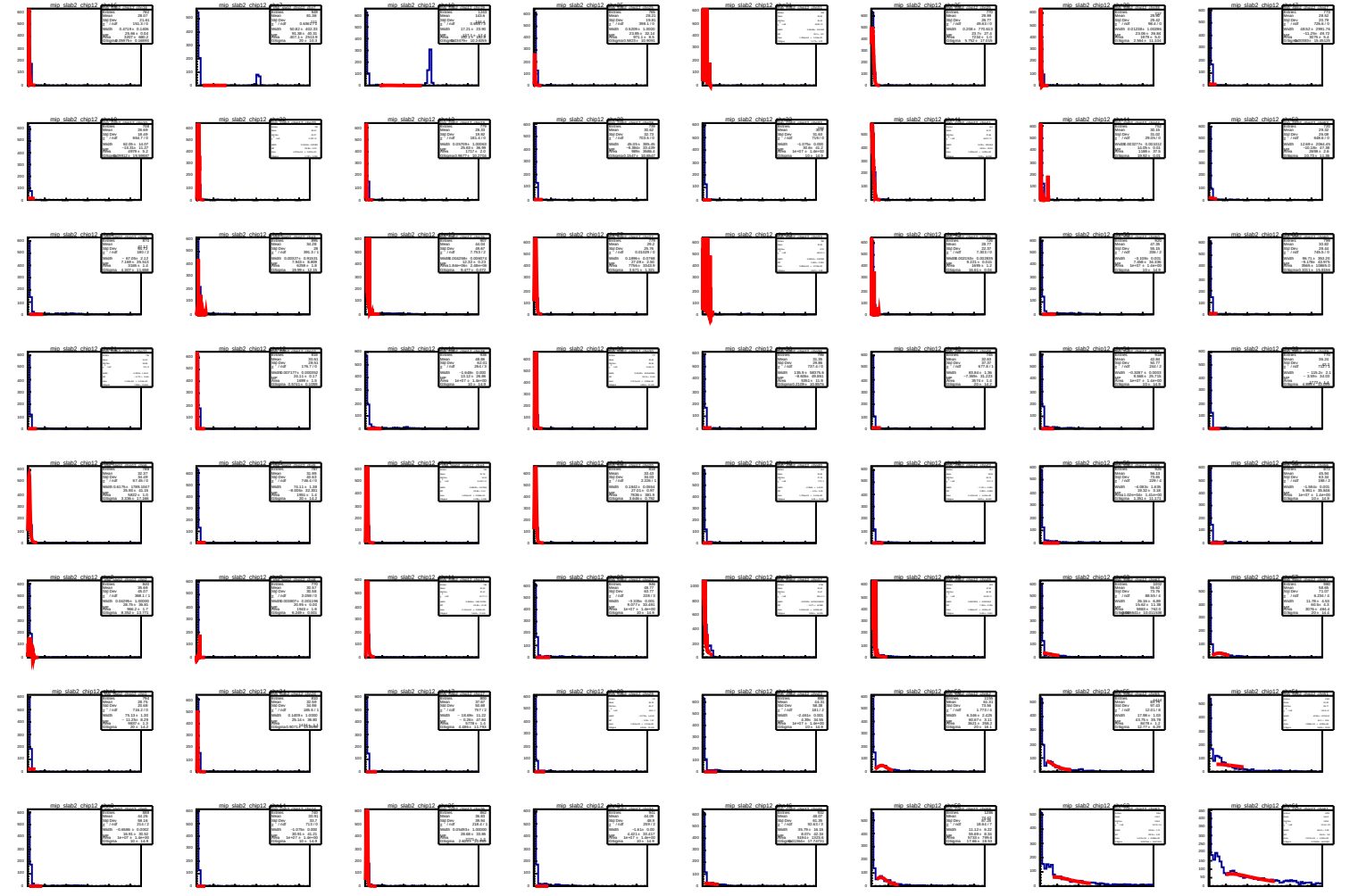

mip slab1 chip14 chan2
Entries 1000
Mean 0.4
RMS 0.4
Underflow 0
Overflow 0
Integral 1000
Skewness 0.8
Kurtosis 0.6
Constant 0.1000E+01
Mean 0.4000E+00
Sigma 0.1000E+00

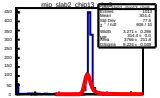

mip slab1 chip14 chan3
Entries 1000
Mean 0.4
RMS 0.4
Underflow 0
Overflow 0
Integral 1000
Skewness 0.8
Kurtosis 0.6
Constant 0.0000E+00
Mean 0.4000E+00
Sigma 0.1000E+00

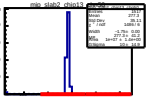

mip slab1 chip15 chan56
Entries 2000
Mean 122.2
Std Dev 12.3
χ² / ndf 1.08 / 1
Const 31.83 ± 1.46
MPV 122.2 ± 0.4
Sigma 2.60 ± 0.03
Total Integral 31.8833

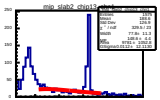

mip slab1 chip15 chan55
Entries 2000
Mean 110.2
Std Dev 10.2
χ² / ndf 113.7 / 27
Const 27.82 ± 3.62
MPV 110.2 ± 0.3
Sigma 2.05 ± 0.03
Total Integral 14.0223

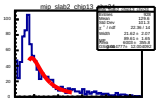

mip slab1 chip15 chan54
Entries 2000
Mean 111.1
Std Dev 11.1
χ² / ndf 49.4 / 6
Const 19.01 ± 1.7
MPV 110.1 ± 0.4
Sigma 2.7 ± 0.3
Total Integral 19.0117

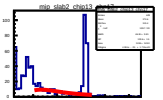


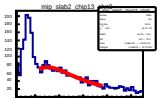

mip slab2 chip13 chan0
Entries 7994
Mean 363.4
Std Dev 19.19
χ² / ndf 5267 / 18
Width 3.271 ± 0.296
Peak 504.4 ± 0.3
Area 1.761 ± 0.016
Integral 1.761 ± 0.016

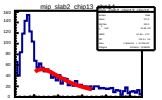

mip slab2 chip13 chan1
Entries 7994
Mean 277.2
Std Dev 19.19
χ² / ndf 3285 / 18
Width 5.79 ± 0.60
Peak 277.0 ± 0.2
Area 1.e+07 ± 1.e+04
Integral 1.e+07 ± 1.e+04

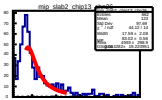

mip slab2 chip13 chan2
Entries 7994
Mean 163.4
Std Dev 129.9
χ² / ndf 1079 / 18
Width 77.9 ± 12.3
Peak 148.6 ± 0.4
Area 4191 ± 1010.8
Integral 4191 ± 1010.8

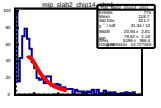

mip slab2 chip13 chan3
Entries 7994
Mean 102.2
Std Dev 101.0
χ² / ndf 1.e+07 / 17
Width 21.63 ± 2.47
Peak 89.61 ± 2.16
Area 7000 ± 3000
Integral 7000 ± 3000

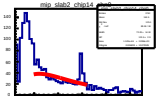

mip slab2 chip13 chan4
Entries 7994
Mean 77.7
Std Dev 57.44
χ² / ndf 1.e+07 / 17
Width 14.71 ± 1.47
Peak 67.74
Area 1.e+07 ± 1.e+04
Integral 1.e+07 ± 1.e+04

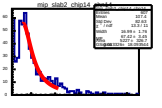

mip slab2 chip13 chan5
Entries 7994
Mean 54.7
Std Dev 44.27
χ² / ndf 1.e+07 / 17
Width 17.94 ± 2.09
Peak 44.27 ± 1.18
Area 2300 ± 200.9
Integral 2300 ± 200.9

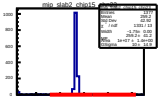

mip slab2 chip13 chan6
Entries 7994
Mean 41.1
Std Dev 37.44
χ² / ndf 1.e+07 / 17
Width 17.94 ± 2.09
Peak 37.44 ± 1.18
Area 2300 ± 200.9
Integral 2300 ± 200.9

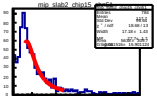

mip slab2 chip13 chan7
Entries 7994
Mean 32.1
Std Dev 27.44
χ² / ndf 1.e+07 / 17
Width 17.94 ± 2.09
Peak 27.44 ± 1.18
Area 2300 ± 200.9
Integral 2300 ± 200.9

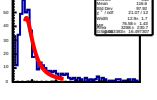

mip_slab2_chip14_chn1
Entries 1000
Mean 111.7
Std Dev 111.7
χ² / ndf 31.02 / 7
Const 23.84 ± 2.61
MPV 78.67 ± 1.18
Sigma 10.06 ± 0.94
Integral 14.27 ± 0.64

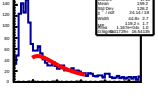

mip_slab2_chip14_chn2
Entries 1000
Mean 111.7
Std Dev 111.7
χ² / ndf 34.67 / 6
Const 19.61 ± 0.61
MPV 78.61 ± 0.63
Sigma 10.06 ± 0.49
Integral 14.27 ± 0.64

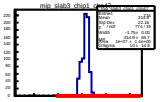

mip_slab2_chip14_chn3
Entries 1000
Mean 111.7
Std Dev 111.7
χ² / ndf 13.57 / 11
Const 39.99 ± 1.75
MPV 78.67 ± 0.37
Sigma 9.977 ± 0.267
Integral 14.27 ± 0.64

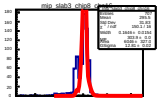

mip_slab2_chip15_chan13
Entries 1000
Mean 0.0
Std Dev 0.0
χ² / ndf 1081 / 61
Width -1.7± 0.01
Width 21.3± 21.2
MPV 14.07± 0.01
Integral 0.0 ± 0.0

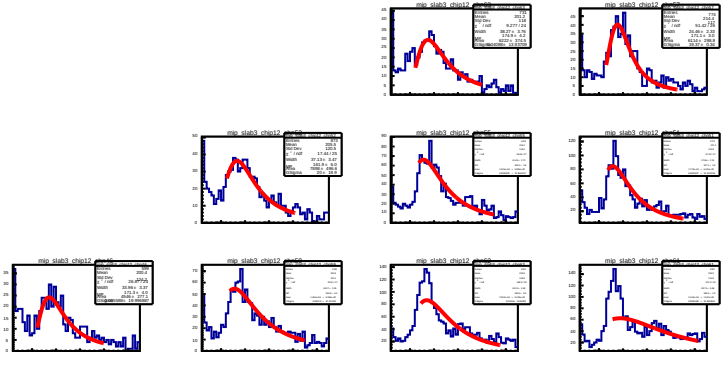

mip_slab2_chip15_chan56
Entries 1000
Mean 0.0
Std Dev 0.0
χ² / ndf 68.94
Width 17.16± 1.15
MPV 50.27± 8.5
Integral 210.0± 15.9E+03

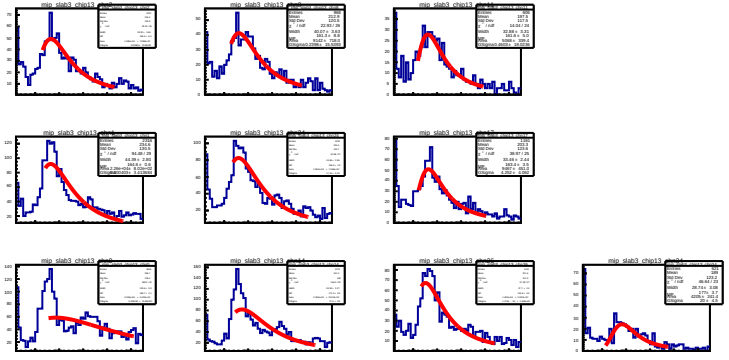

mip_slab2_chip15_chan30
Entries 1000
Mean 0.0
Std Dev 0.0
χ² / ndf 21.07 / 12
Width 12.9± 1.7
MPV 1.5E+03± 1.1
Integral 1589 ± 230.7
Integral 0.0 ± 14.47E+03

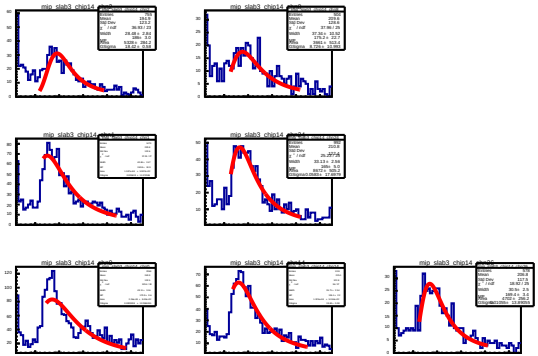

mip_slab2_chip15_chan45
Entries 1000
Mean 0.0
Std Dev 0.0
χ² / ndf 21.07 / 12
Width 16.8± 1.7
MPV 1.2E+03± 1.1
Integral 1.2E+03± 1.1
Integral 0.0 ± 16.1E+03

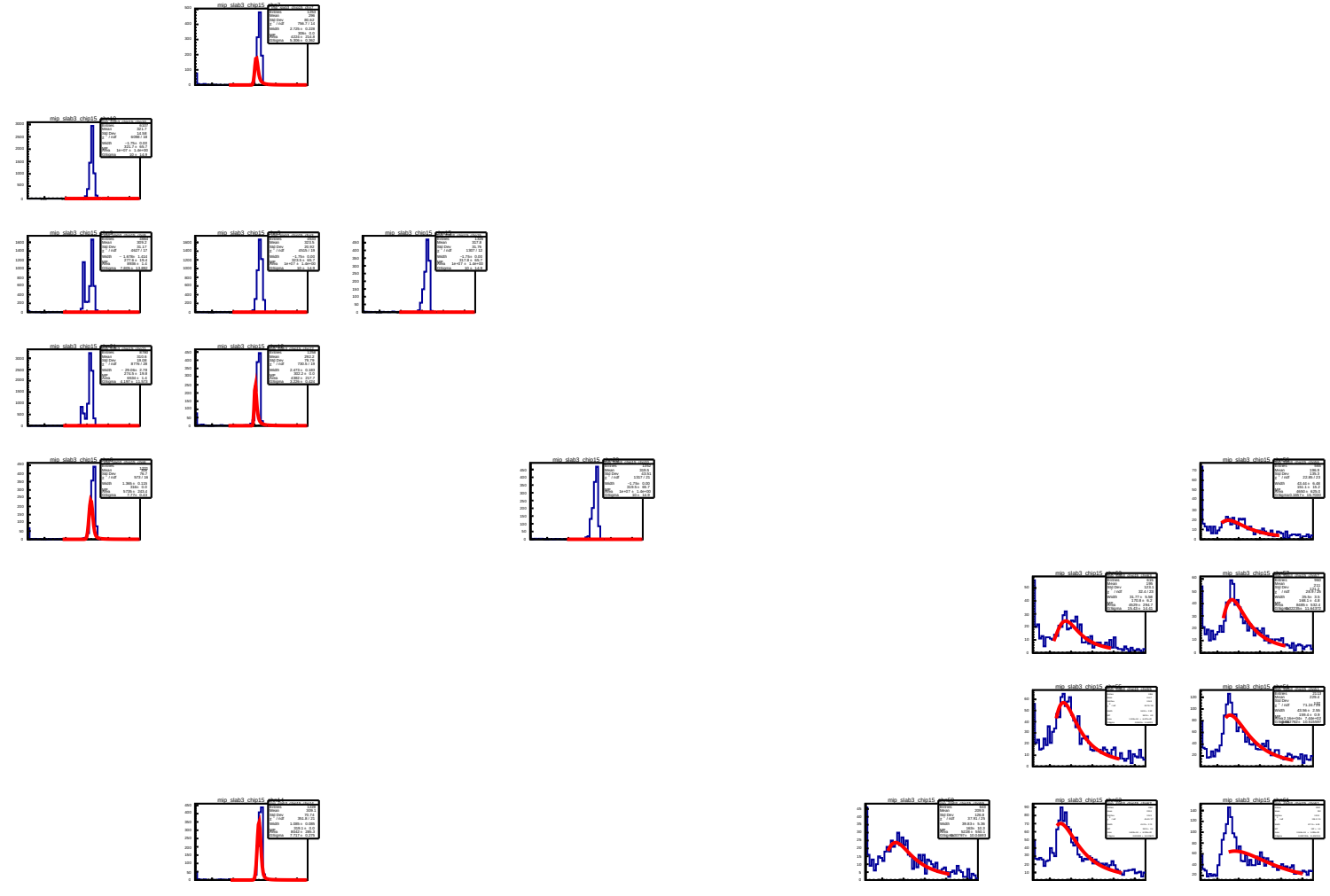

mip_slab3_chip1_chan3
Entries 3000
Mean 3.07
Std Dev 22.78
χ² / ndf 772.28
Width 14.7ns (6σ)
Peak 3.07ns
MPV 1e+07 ± 1.4e+05
Sigma 22.7 ± 0.1

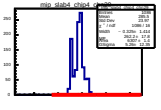

msp_slab3_chp8_c4ch5
Gaussian + exp
Chi2 / NDF 295.5 / 35
P 0.000 1502.1 / 54
Gauss 0.1664 ± 0.0194
Mean 0.0000 ± 0.0000
Sigma 0.0188 ± 0.0000
Lambda 12.81 ± 0.23
180
160
140
120
100
80
60
40
20
0

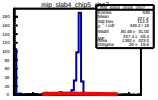

mip_slab3_chip12_ch45
Entries 1114
Mean 11.4
Std Dev 9.277 ± 0.28
χ² / ndf 28.27 ± 3.79
Width 1.774 ± 0.2
MPV 11.01 ± 0.09
Integral 13.27 ± 0.63
mip_slab3_chip12_ch47
Entries 2172
Mean 11.7
Std Dev 11.02 ± 0.19
χ² / ndf 31.89 ± 2.05
Width 1.71 ± 0.1
MPV 11.01 ± 0.06
Integral 13.27 ± 0.63
mip_slab3_chip12_ch55
Entries 2007
Mean 10.5
Std Dev 10.15
χ² / ndf 37.15 ± 3.47
Width 1.92 ± 0.2
MPV 10.01 ± 0.07
Integral 13.27 ± 0.63
mip_slab3_chip12_ch57
Entries 1114
Mean 11.4
Std Dev 9.277 ± 0.28
χ² / ndf 28.27 ± 3.79
Width 1.774 ± 0.2
MPV 11.01 ± 0.09
Integral 13.27 ± 0.63
mip_slab3_chip12_ch65
Entries 2007
Mean 10.5
Std Dev 10.15
χ² / ndf 37.15 ± 3.47
Width 1.92 ± 0.2
MPV 10.01 ± 0.07
Integral 13.27 ± 0.63
mip_slab3_chip12_ch67
Entries 2172
Mean 11.7
Std Dev 11.02 ± 0.19
χ² / ndf 31.89 ± 2.05
Width 1.71 ± 0.1
MPV 11.01 ± 0.06
Integral 13.27 ± 0.63
mip_slab3_chip12_ch75
Entries 2007
Mean 10.5
Std Dev 10.15
χ² / ndf 37.15 ± 3.47
Width 1.92 ± 0.2
MPV 10.01 ± 0.07
Integral 13.27 ± 0.63
mip_slab3_chip12_ch77
Entries 1114
Mean 11.4
Std Dev 9.277 ± 0.28
χ² / ndf 28.27 ± 3.79
Width 1.774 ± 0.2
MPV 11.01 ± 0.09
Integral 13.27 ± 0.63
mip_slab3_chip12_ch85
Entries 2007
Mean 10.5
Std Dev 10.15
χ² / ndf 37.15 ± 3.47
Width 1.92 ± 0.2
MPV 10.01 ± 0.07
Integral 13.27 ± 0.63
mip_slab3_chip12_ch87
Entries 2172
Mean 11.7
Std Dev 11.02 ± 0.19
χ² / ndf 31.89 ± 2.05
Width 1.71 ± 0.1
MPV 11.01 ± 0.06
Integral 13.27 ± 0.63

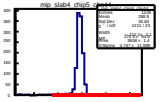

mip_slab3_chip13_chan1
mip_slab3_chip13_chan2
mip_slab3_chip13_chan3
mip_slab3_chip13_chan4
mip_slab3_chip13_chan5
mip_slab3_chip13_chan6
mip_slab3_chip13_chan7
mip_slab3_chip13_chan8
mip_slab3_chip13_chan9
mip_slab3_chip13_chan10
mip_slab3_chip13_chan11
mip_slab3_chip13_chan12

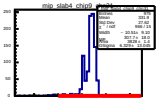

mip slab3 chip14
mip slab3 chip14
mip slab3 chip14
mip slab3 chip14
mip slab3 chip14
mip slab3 chip14
mip slab3 chip14

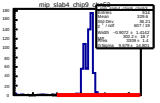

mip slab3 chip15
Mean
Std Dev
χ² / ndf
Width
MPV
Integral

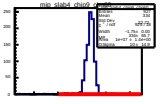

mip slab4 chip4 strip20
Entries 1000
Mean 252.7
Std Dev 23.97
χ / ndf 1.08
p0 0.3294 ± 0.016
Mean 252.0 ± 17.8
Sigma 9.380 ± 0.35
Integral 1000 ± 32
250
200
150
100
50
0

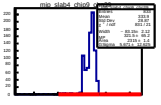

mip slab4 chip5 chip5
Entries 3214
Mean 3218
Std Dev 12.11
χ² / ndf 359.2 / 25
Width 20.00 ± 30.20
Mean 3217 ± 0.2
Sigma 20.1 ± 0.1
Integral 3214 ± 57.0

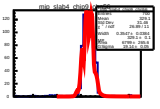

mip slab4 chip5 chip5
Entries 2918
Mean 2918
Std Dev 12.11
χ² / ndf 1211 / 23
Width 20.00 ± 30.20
Mean 2918 ± 0.2
Sigma 19.94 ± 0.16

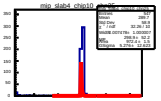

mip_slab4_chip0_ch01
Entries 1000
Mean 30.12
Std Dev 27.02
χ² / ndf 5581 / 19
Prob 0
Const 31.51± 9.20
Mean -0.0000 ± 0.0
Sigma 38.41 ± 0.0
Chi2/ndf 293.8 ± 27.02

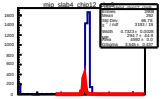

mip_slab4_chip0_ch02
Entries 1000
Mean 326.6
Std Dev 17.12
χ² / ndf 607 / 22
Prob 0
Const 0.0000 ± 0.0000
Mean 326.6 ± 0.0
Sigma 17.12 ± 0.0
Chi2/ndf 0.0000 ± 27.60

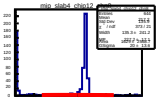

mip_slab4_chip0_ch03
Entries 1000
Mean 230
Std Dev 18.73
χ² / ndf 1.8e+04
Prob 0
Const -1.76e+ 0.00
Mean 230.0 ± 0.0
Sigma 18.73 ± 0.0
Chi2/ndf 2.1e+04 ± 0.0

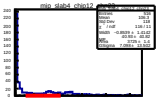

mip_slab4_chip0_ch04
Entries 1000
Mean 233.5
Std Dev 19.47
χ² / ndf 0
Prob 0
Const - 65.93± 2.23
Mean 233.5 ± 0.0
Sigma 19.91 ± 0.0
Chi2/ndf 1.7e+04 ± 0.0

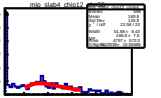

mip_slab4_chip0_ch05
Entries 1000
Mean 324.7
Std Dev 17.14
χ² / ndf 29.09 / 11
Prob 0
Const 0.3641± 0.0001
Mean 324.7 ± 0.0
Sigma 17.01 ± 0.0
Chi2/ndf 29.09 ± 0.0

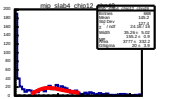

mip slab4 chip10 ped-25 noise-mean
Entries 2857
Mean 19.7
Std Dev 19.8
χ² / ndf 32.28 / 17
SNR(B-DET/TR) 1.00382
Noise 19.6 ± 0.3
MPV 19.7 ± 0.3
Sigma 9.4767 ± 0.3
380
320
260
200
140
80
20
0

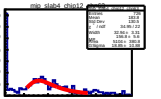

mip_slab4_chip12

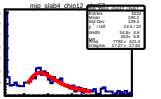

mip_slab4_chip12

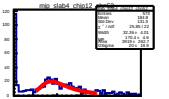

mip_slab4_chip12

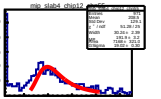

mip_slab4_chip12

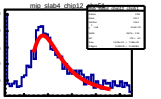

mip_slab4_chip12

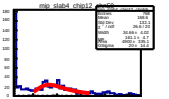

mip_slab4_chip12

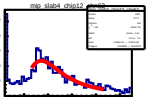

mip_slab4_chip12

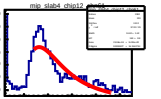

mip_slab4_chip12

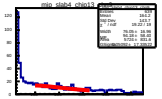

mip_slab4_chip12

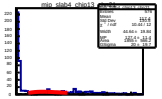

mip_slab4_chip12

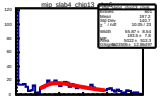

mip_slab4_chip12

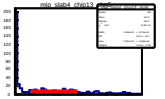

mip_slab4_chip12

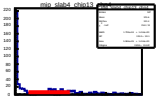

mip_slab4_chip12

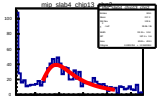

mip slab4 chip13

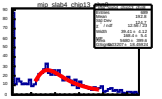

mip slab4 chip13

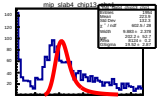

mip slab4 chip13

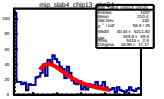


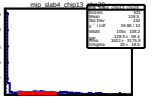

mip slab4 chip13

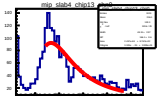

mip slab4 chip13

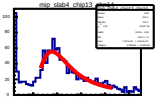


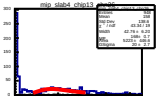

mip slab4 chip13

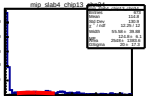

mip slab4 chip13

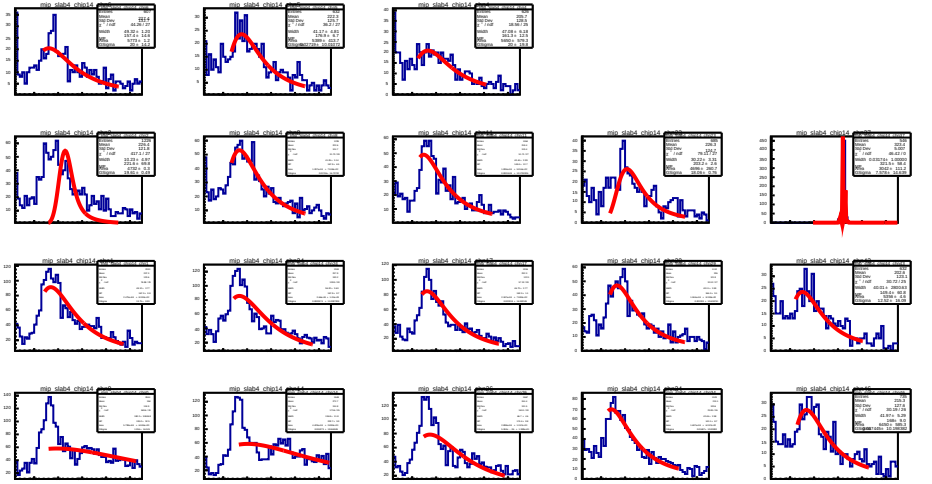

mip slab4 chip13

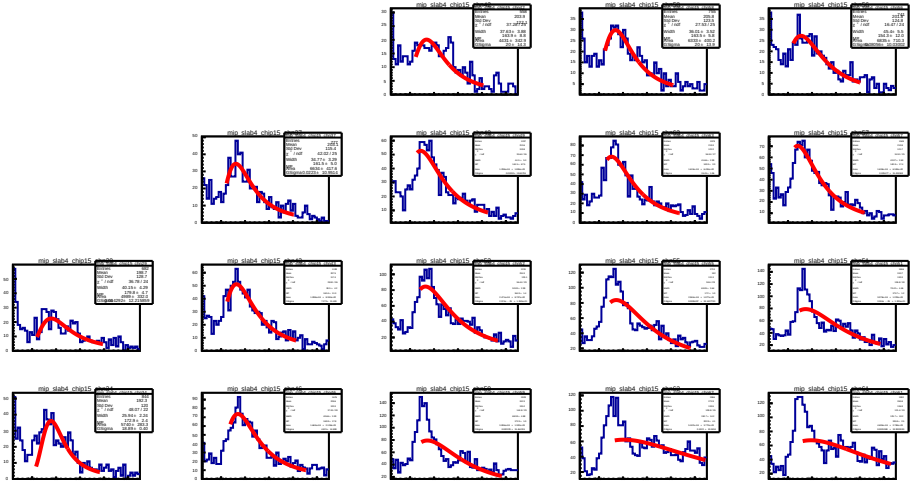

mip slab4 chip13


mip slab4 chip13


mip slab4 chip13


mip slab4 chip13




mip_slab4_chip15
Mean 2554
Std Dev 1214
χ² / ndf 32.14/24
Width 37.63 ± 3.25
MPV 1000.1 ± 1.1
Integral 2171 ± 11
mip_slab4_chip15
Mean 2554
Std Dev 1214
χ² / ndf 27.63/26
Width 35.91 ± 3.12
MPV 1000.1 ± 1.1
Integral 2171 ± 11
mip_slab4_chip15
Mean 2554
Std Dev 1214
χ² / ndf 16.47/24
Width 35.91 ± 3.1
MPV 1000.1 ± 1.1
Integral 2171 ± 11
mip_slab4_chip15
Mean 1477
Std Dev 1017
χ² / ndf 42.07/24
Width 31.77 ± 3.29
MPV 1001.9 ± 1.0
Integral 1811 ± 10
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15
Mean 1427
Std Dev 1129
χ² / ndf 40.33/24
Width 37.9 ± 3.4
MPV 1000.1 ± 1.1
Integral 2171 ± 11
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15
Mean 1427
Std Dev 1129
χ² / ndf 48.07/22
Width 29.98 ± 2.9
MPV 1000.1 ± 1.1
Integral 1811 ± 10
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15
mip_slab4_chip15