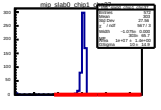
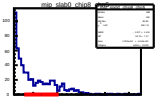
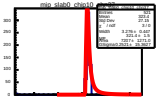
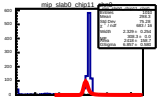
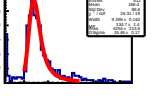
mip_slab0_chip0_crack0
Entries 100
Mean 25.00
Std Dev 25.00
Integral 549.7 / 0
Skewness 0.00
Kurtosis 0.00
Underflow 0.0
Overflow 0.0
350
300
250
200
150
100
50
0

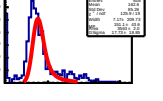

mip_slab0_chip1_ch10
300
250
200
150
100
50
0
Entries 1000
Mean 0.7
Std Dev 0.7
Underflow 0
Overflow 0
Integral 1000
Mean x 667.9
Std Dev x 0.7
Skewness 0.7
Kurtosis 0.7
Minimum 664.7
Maximum 669.7

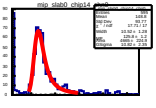

mip_stab0_chi0_pr0
100
80
60
40
20
0

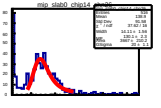

mip_slab0_chip10_strip2
Entries 1000
Mean 200.2
Std Dev 2.18
χ² / ndf 0.8
Prob 0.778
Constant 3.278 ± 0.037
Mean 200.4 ± 1.5
Sigma 2.1 ± 0.1
Integral 2931 ± 30.917
300
250
200
150
100
50
0


msp slab0 chp11 gain2
Entries 1000
Mean 29.21
RMS Div 29.21
χ / ndf 6817 / 18
Width 2.339 ± 0.354
Sigma 1.654 ± 0.250
Mu 2.020 ± 140.7
Integral 0.807 ± 0.005
600
500
400
300
200
100
0

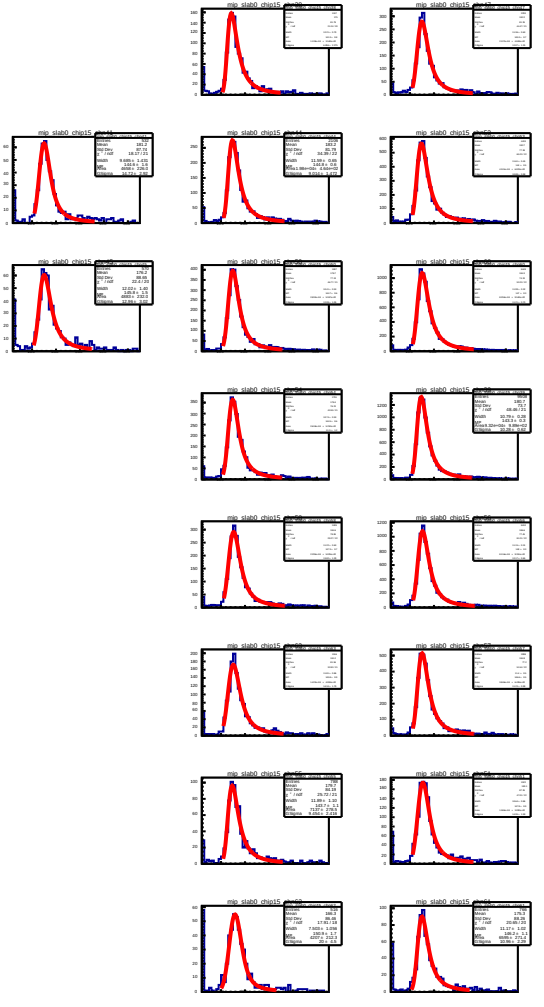

mip_slab0_chip12_chan30
Entries 7394
Mean 26.07
RMS 3.882
χ² / ndf 26.31 / 18
Width 9.399 ± 0.142
MPV 25.07 ± 0.07
Area 6750 ± 215.9
Sigma 15.66 ± 0.12

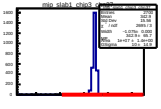

mip_slab0_chip12_chan31
Entries 7394
Mean 26.15
RMS 3.875
χ² / ndf 126.91 / 19
Width 7.174 ± 2.9613
MPV 25.07 ± 0.07
Area 3664 ± 3.2
Sigma 17.774 ± 1.14

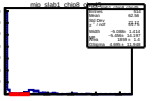

msp_slab0_chip14_ch0
Entries 768
Mean 168.6
RMS 17.73
χ² / ndf 17.73 / 17
MPV 13.92 ± 1.29
Width 3.000 ± 0.000
Area 3989 ± 325.9
Sigma 10.82 ± 2.15

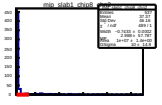

msp_slab0_chip14_ch0
Entries 768
Mean 59.8
RMS 37.43
χ² / ndf 37.43 / 38
MPV 14.11 ± 1.94
Width 3.000 ± 0.000
Area 3987 ± 325.2
Sigma 34.7 ± 3.2

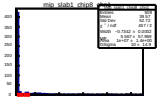
mip slab0 chip15 chan0

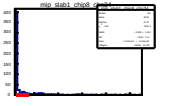


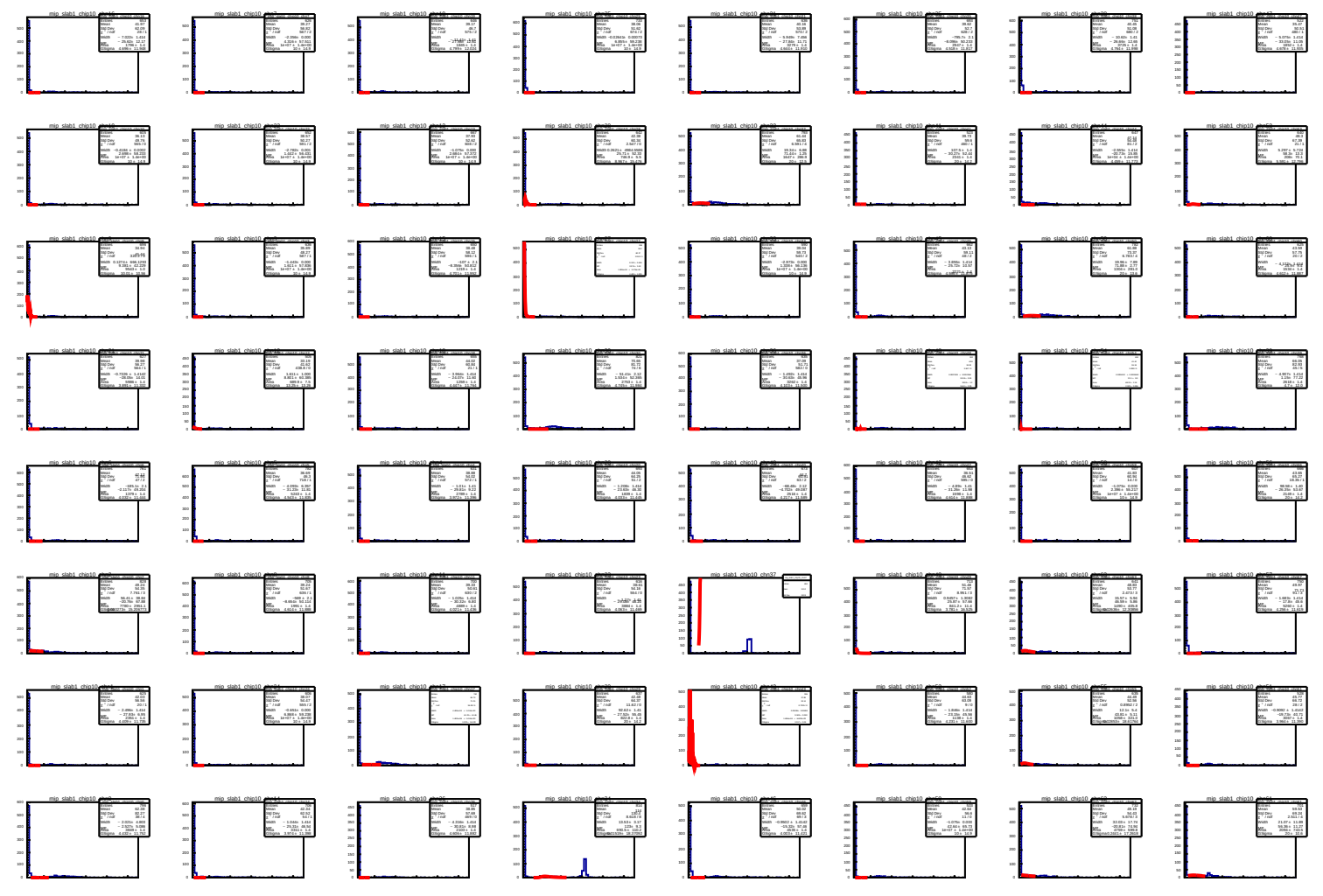

mip_slab1_chip3_ch10
Entries 3232
Mean 50.4
Std Dev 2.65
Integral 2685.79
Underflow 0
Overflow 547
Mean x 0.2776± 0.0102
Std Dev x 0.2 ± 0.0 ×
Mean y 54.1667 ± 0.1118
Std Dev y 6.1 ± 0.1118
1600
1400
1200
1000
800
600
400
200
0

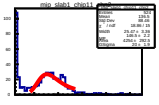

mip slab1 chip8 chan2
Entries 1000
Mean 62.58
Std Dev 22.71
χ² / ndf 0.000 / 0.000
Prob 0.000
Constant 1.000 ± 0.000
Mean ± 0.000 ± 0.000
Sigma 0.000 ± 0.000

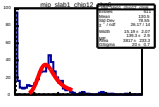

mip slab1 chip8 chan1
Entries 1000
Mean 29.57
Std Dev 32.72
χ² / ndf 0.000 / 0.000
Prob 0.000
Constant 0.0322 ± 0.0322
Mean ± 0.0322 ± 57.980
Sigma 14.027 ± 0.0322

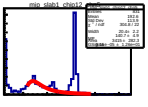

mip slab1 chip8 chan0
Entries 1000
Mean 29.37
Std Dev 32.72
χ² / ndf 0.000 / 0.000
Prob 0.000
Constant 1414.4 ± 1667E.2
Mean ± 0.000 ± 57.980
Sigma 14.000 ± 12.0
Integral 1414.0 ± 1414.0

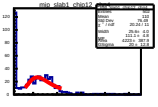

mip slab1 chip8 chan3
Entries 1000
Mean 0.0
Std Dev 0.0
χ² / ndf 0.000 / 0.000
Prob 0.000
Constant 1.000 ± 1.000
Mean ± 0.000 ± 0.000
Sigma 0.000 ± 0.000

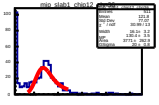


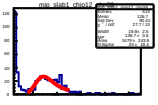

mip_sbb1_chip11_stack
Entries 324
Mean 33.5
RMS 13.3
χ2 / ndf 16.88 / 19
Prob 0.6
Const 21.27 ± 3.59
MPV 148.6 ± 2.2
Sigma 17.01 ± 0.9
Integral 1.1e+3 ± 0.0
100
80
60
40
20
0

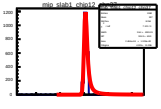

mip slab1 chip12
Mean 19.14
Std Dev 5.55
χ² / ndf 26.27 / 14
Width 19.24 ± 0.22
Area 1.000 ± 0.000
MPV 1017.1 ± 10.1
Sigma 22.7 ± 1.1

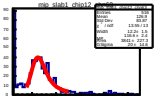

mip slab1 chip12
Mean 19.14
Std Dev 13.14
χ² / ndf 300.8 / 22
Width 20.41 ± 1.1
Area 1.000 ± 0.000
MPV 3401.1 ± 262.2
Sigma 18.1 ± 2.6E+04

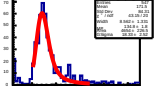

mip slab1 chip12
Mean 19.4
Std Dev 5.68
χ² / ndf 20.61 / 11
Width 19.91 ± 0.8
Area 1.000 ± 0.000
MPV 1020.1 ± 167.7
Sigma 22.7 ± 7.4

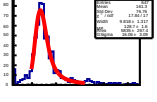

mip slab1 chip12
Mean 19.14
Std Dev 17.07
χ² / ndf 20.07 / 13
Width 19.30 ± 0.6
Area 1.000 ± 0.000
MPV 3771.1 ± 262.3
Sigma 22.7 ± 1.1

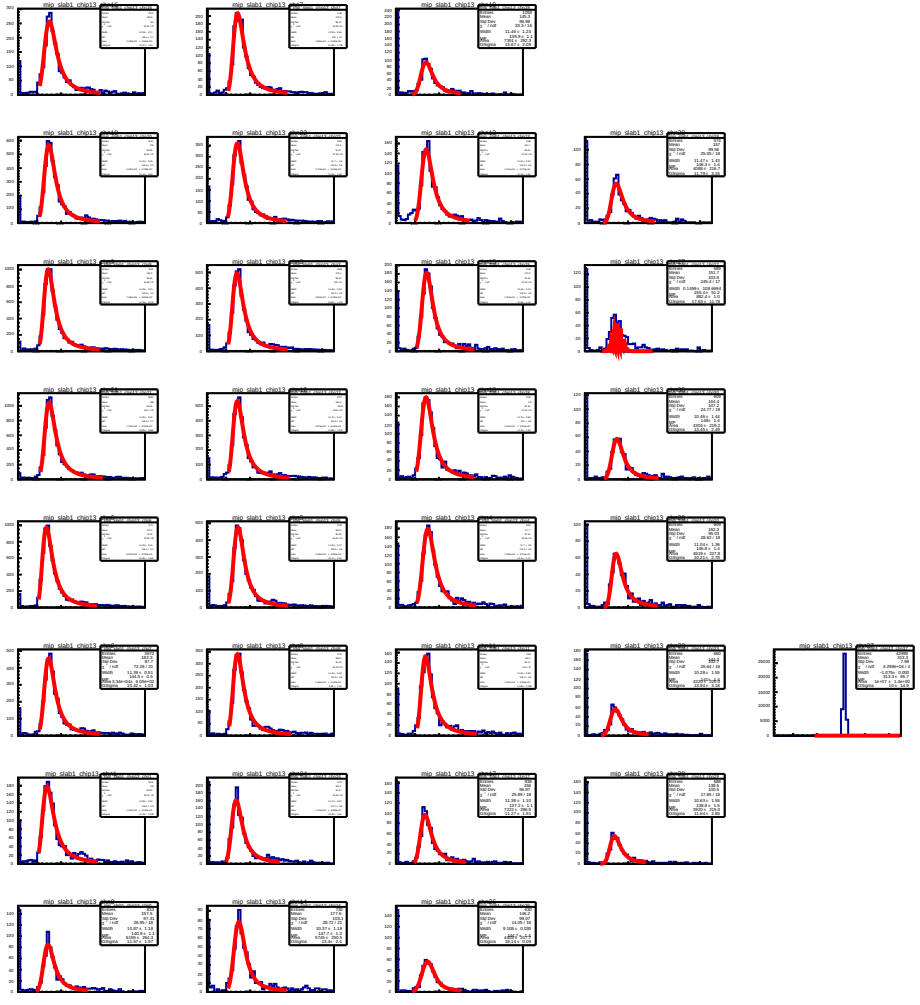

mip slab1 chip12
Mean 19.4
Std Dev 21.41
χ² / ndf 13.81 / 12
Width 19.91 ± 0.8
Area 1.000 ± 0.000
MPV 3771.1 ± 167.7
Sigma 22.7 ± 7.4

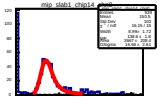

mip slab1 chip12
Mean 19.4
Std Dev 17.07
χ² / ndf 13.58 / 13
Width 19.30 ± 0.6
Area 1.000 ± 0.000
MPV 3771.1 ± 262.3
Sigma 22.7 ± 1.1

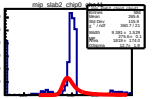

mip slab1 chip12
Mean 19.4
Std Dev 21.41
χ² / ndf 13.58 / 13
Width 12.2 ± 1.5
Area 1.18E-4 ± 2.2
MPV 1.00E-4 ± 0.0
Sigma 19.91 ± 7.4

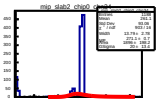

mip slab1 chip12
Mean 19.4
Std Dev 21.41
χ² / ndf 43.38 / 22
Width 8.542 ± 1.31E
Area 1.000 ± 0.000
MPV 4503 ± 226.5
Sigma 19.91 ± 7.4

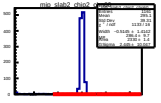

mip slab1 chip12
Mean 19.4
Std Dev 21.41
χ² / ndf 17.82 / 17
Width 9.91E+ 1.31E
Area 1.000 ± 0.000
MPV 5020.7 ± 167.7
Sigma 19.91 ± 7.4

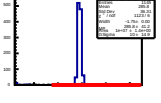


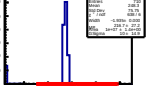

msp stab1 chip14 adc
Entries 1000
Mean 16.15
RMS 1.72
Underflow 0
Overflow 0
16.15 / 18
Constant 1.07e+03
Mean 16.15 ± 0.01
Sigma 0.66 ± 0.01
120
100
80
60
40
20
0

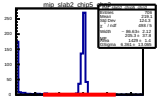

mip_slab2_chip0_chan14
Entries 2000
Mean 266.8
Mean x 266.8
χ² / ndf 360.7 / 13
Width 9.391 ± 3.928
Area 1.000 ± 0.000
MPV 10.271 ± 0.173
Sigma 20.0 ± 1.0

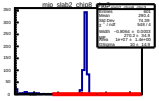

mip_slab2_chip0_chan15
Entries 2000
Mean 55.05
Mean x 55.05
χ² / ndf 3033.7 / 5
Width 13.79 ± 2.70
Area 1.000 ± 0.000
MPV 1205.1 ± 48.1
Sigma 20.0 ± 1.0

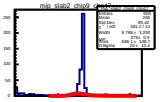

map slab2 chip2 charge
Entries 11317
Mean 281.1
Mean x 11317.0
Std Dev 11317.0
Width -0.5185 ± 1.4542
Chi2 / 1
Prob 0.4716
Height 2.6564e+04 ± 0.0000
500
400
300
200
100
0

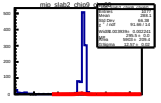

map slab2 chip2 charge
Entries 11317
Mean 281.1
Mean x 11317.0
Std Dev 11317.0
Width -1.75± 0.00
Chi2 / 1
Prob 1.4e-07 ± 1.4e+00
Height 3e+1 ± 0.0
500
400
300
200
100
0

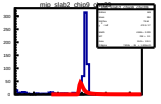

msp_slab2_chip4_pedsig
Entries 2048
Mean 2.07
RMS 0.3
Underflow 0
Overflow 0
χ² / ndf 630.6 / 6
Width 0.365± 0.012
Mean 2.000± 2.000
Sigma 0.01± 1.01
Region 0.0 - 12.0

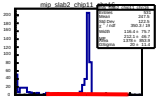

mip_slab2_chin5_strip2
250
200
150
100
50
0
Entries 2114
Mean 89.61
Std Dev 2.12
Underflow 0
Overflow 0
Integral 2114.0
Skewness 0.0000
Kurtosis 11.000
Mean 89.63 ± 0.12
Sigma 2.14 ± 0.14
Min 85.00
Max 94.00

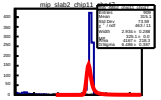

mip_stab2_chi2d
Entries 1000
Mean 292.8
Std Dev 5.674
Skew 0.6274
Mean -0.8056 ± 0.0253
Std Dev 0.7991 ± 0.0179
Skew -0.4127 ± 0.1218
Underflow 0
Overflow 0
350
300
250
200
150
100
50
0

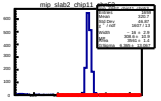

mip_slab2_chip0_chan0
Entries 1000
Mean 95.42
Std Dev 355.27 ± 7.4
Width 9.7484 ± 0.206
Mean 355.1 ± 0.7
Sigma 9.74 ± 0.2
Integral 1000 ± 32.0

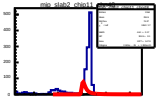

mip_slab2_chip0_chan0
Entries 1000
Mean 284.5
Std Dev 51.86 ± 1.6
Width 0.2032 ± 0.0
Mean 284.4 ± 0.7
Sigma 51.8 ± 1.6
Integral 1000 ± 32.0

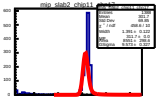

mip_slab2_chip0_chan0

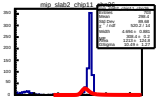

mip slab2 chip11 chan12
Entries 1000
Mean 20.73
Std Dev 122.5
χ² / ndf 3502.3 / 59
Width 236.4 ± 79.7
Mean 1.000 ± 0.000
Sigma 1.000 ± 0.000
Integral 24 ± 0.4

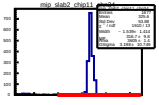

mip slab2 chip11 chan25
Entries 1000
Mean 35.9
Std Dev 73.16
χ² / ndf 3653.71
Width 2.504 ± 0.208
Mean 4.000 ± 0.000
Sigma 4.000 ± 0.000

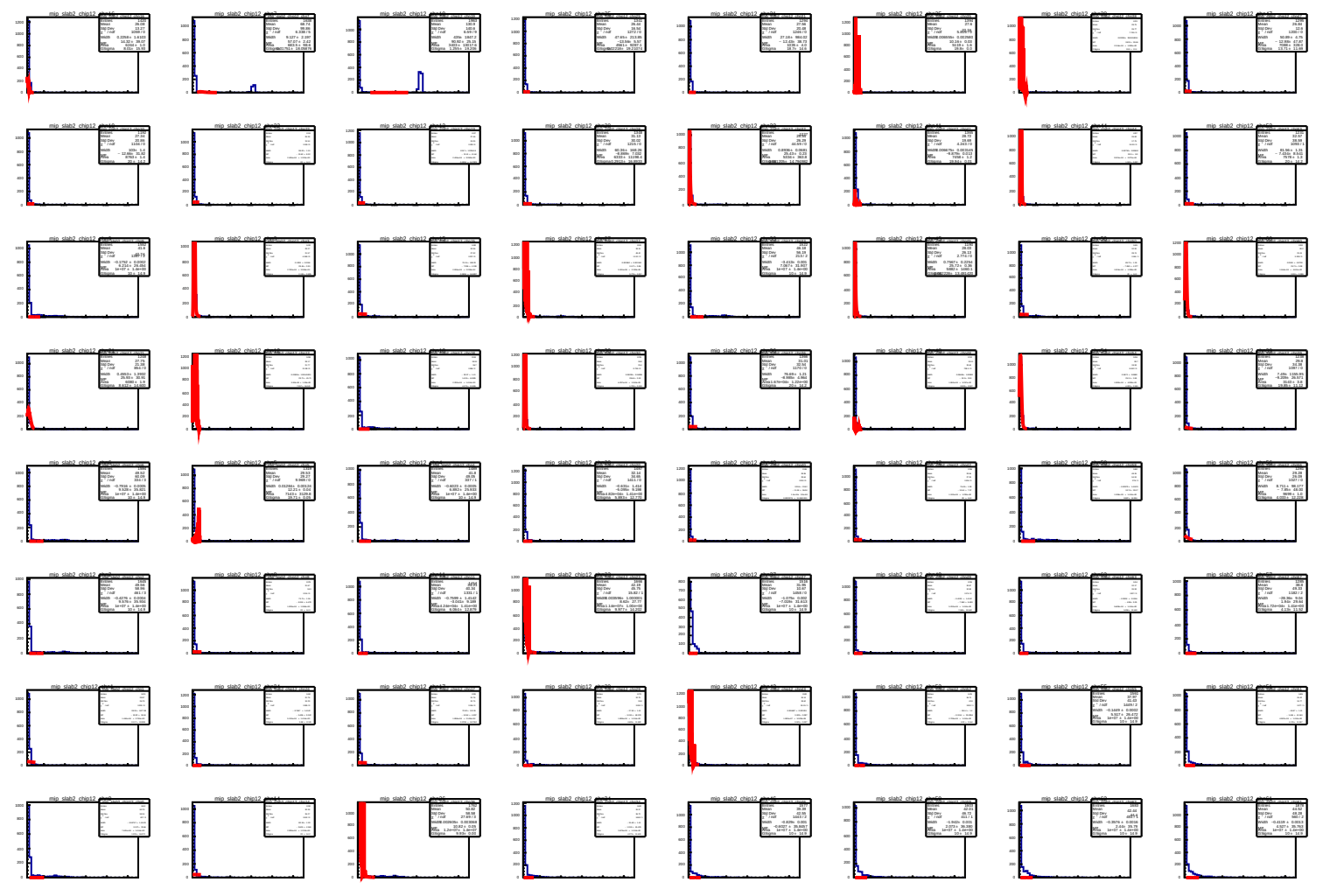

mip slab2 chip11 chan26
Entries 1000
Mean 3.027
Std Dev 3.027
χ² / ndf 1007.71
Width 30.18 ± 2.9
Mean 3.000 ± 0.0
Sigma 3.000 ± 0.0

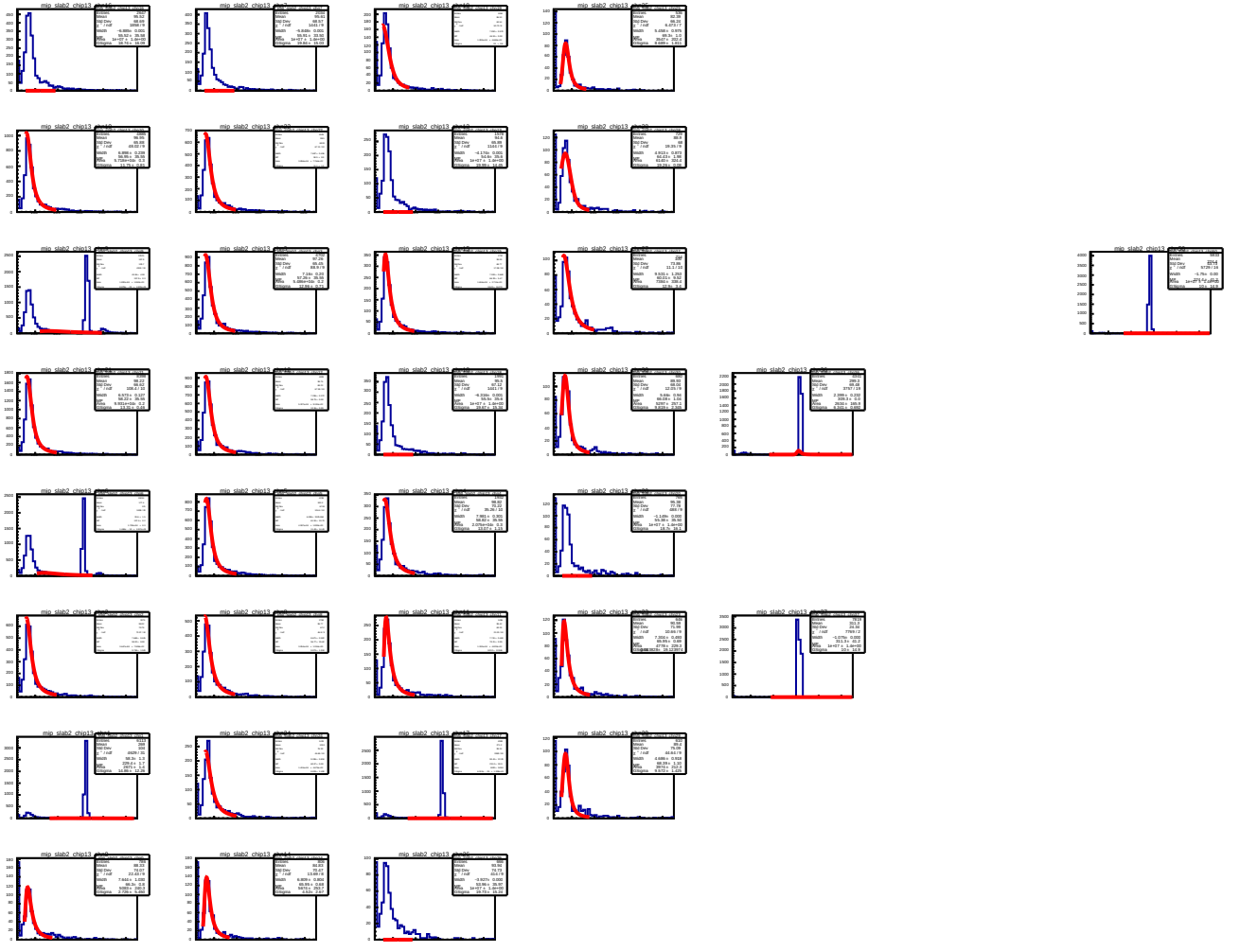

mip slab2 chip11 chan27

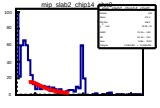

mip slab2 chip11 chan17
Entries 1000
Mean 33.17
Std Dev 69.95
χ² / ndf 4968.3 / 59
Width 301.7 ± 0.0
Mean 1.351 ± 0.122
Sigma 1.571 ± 0.0
Integral 1.571 ± 0.0

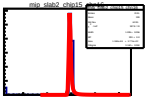

mip slab2 chip11 chan18
Entries 1000
Mean 29.42
Std Dev 29.42
χ² / ndf 5257.17 / 59
Width 4.950 ± 0.001
Mean 1.000 ± 0.000
Sigma 1.000 ± 0.000
Integral 10.49 ± 0.7

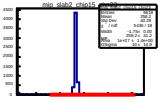

mip slab2 chip11 chan19
Entries 1000
Mean 32.7
Std Dev 10.47
χ² / ndf 1007.71
Width 1.539e- 1.414
Mean 3.000 ± 0.0
Sigma 3000 ± 0.0
Integral 3.000 ± 0.0

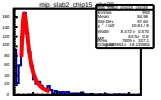


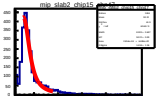

mip slab2 chip13
mip slab2 chip13
mip slab2 chip13

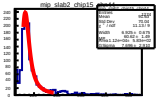

msp_slab2_chip14
Entries 1000
Mean 1.1
RMS 1.1
Underflow 0
Overflow 0
Integral 1000.0
Skewness 2.3
Kurtosis 7.3
Fitting range: [0.0,10.0]
100
80
60
40
20
0

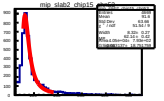

mip slab2 chip15

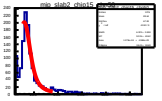

mip slab2 chip15

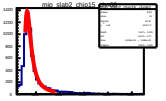

mip slab2 chip15


mip slab2 chip15


mip slab2 chip15


mip slab2 chip15


mip slab2 chip15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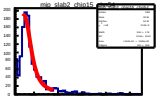
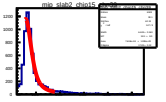
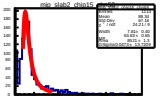

mip slab2 chip15


mip slab2 chip15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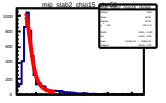
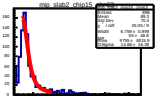

mip slab2 chip15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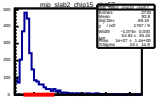
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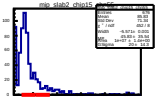
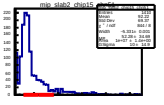
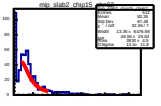

mip slab2 chip15


mip slab2 chip15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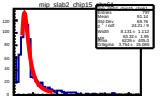
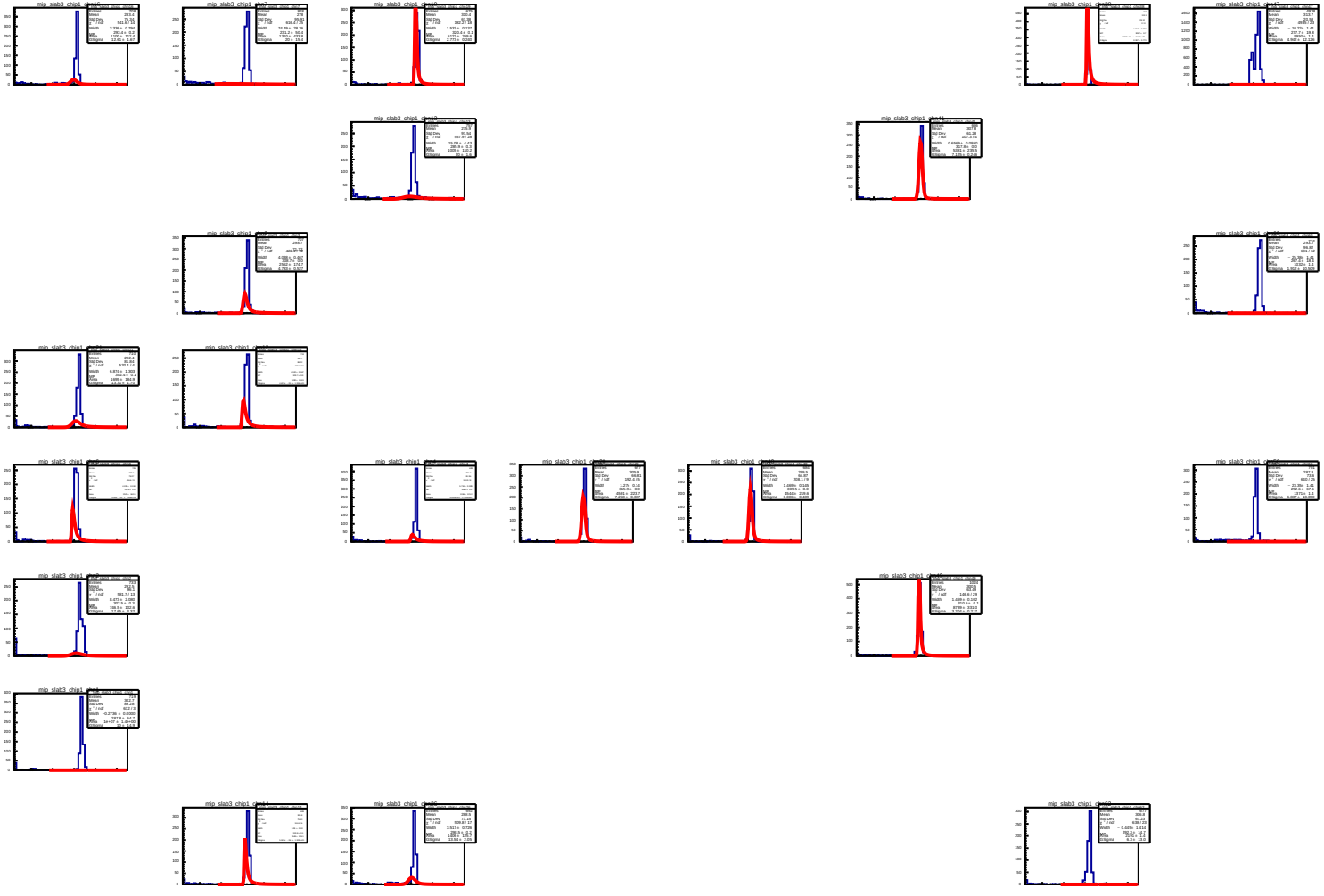
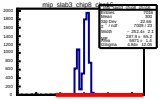
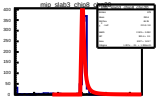

mip slab2 chip15




mip_slab3_chip8_chan5
Entries 1024
Mean 22.66
Std Dev 70291.23
χ² / ndf 252.6 / 2.1
Width 2.67 ± 0.1
MPV 3875.1 ± 0.4
Integral 4.84e+ 0.04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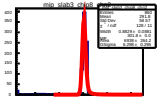
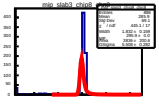
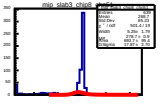
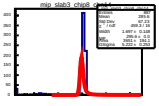
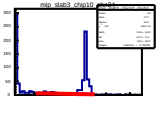
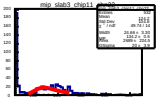

mip_slab3_chip8_chan5
Entries 1024
Mean 21.17
Std Dev 180.11
χ² / ndf 1.0 / 0.0
Width 0.8629 ± 0.0001
MPV 323.4 ± 0.0
Integral 9.08e+ 0.00
Sigma 0.588 ± 0.000

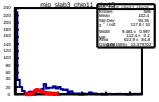

mip_slab3_chip8_chan5
Entries 1024
Mean 24.4
Std Dev 445.2 7.0
χ² / ndf 1.0 / 0.0
Width 1.0214 ± 0.00
MPV 1.0 ± 0.0
Integral 9.08e+ 0.00
Sigma 0.588 ± 0.000

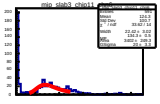

mip_slab3_chip8_chan5
Entries 1024
Mean 19.7
Std Dev 35.22
χ² / ndf 5.0e+ 1.0e
Width 2.78 ± 0.0
MPV 2767.4 ± 0.4
Integral 4.84e+ 0.04
Sigma 0.0 ± 0.0

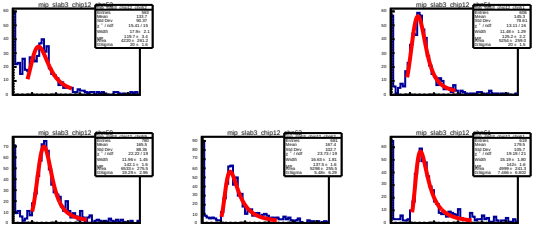

mip_slab3_chip8_chan5
Entries 1024
Mean 19.7
Std Dev 35.22
χ² / ndf 459.7 / 15
Width 1.497 ± 0.140
MPV 2.0 ± 0.0
Integral 3681 ± 34.1
Sigma 0.221 ± 0.0

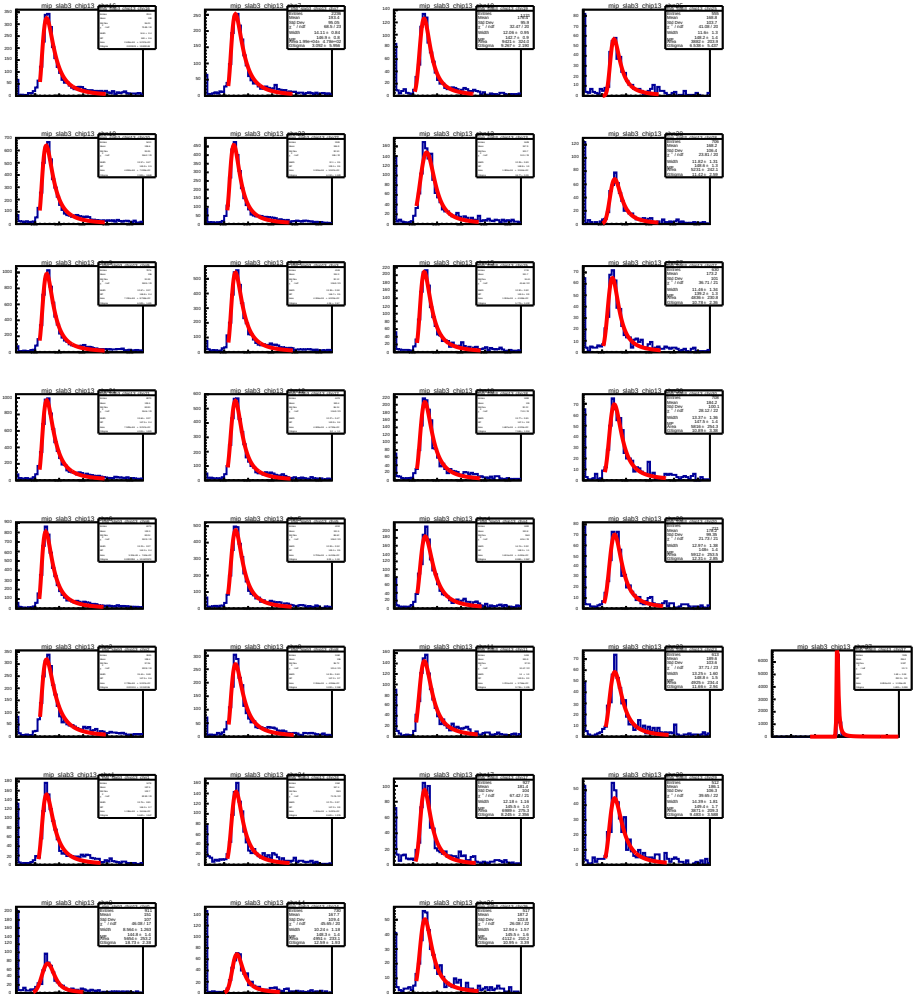

mip_slab3_chip10_strip14
Entries 1000
Mean 0.7
RMS 0.1
Underflow 0
Overflow 0
Integral 1000
Skewness 0.0
Kurtosis 0.0
Mean x 0.7
Mean y 0.1
Std Dev x 0.1
Std Dev y 0.1
Correlation 0.0
300
250
200
150
100
50
0

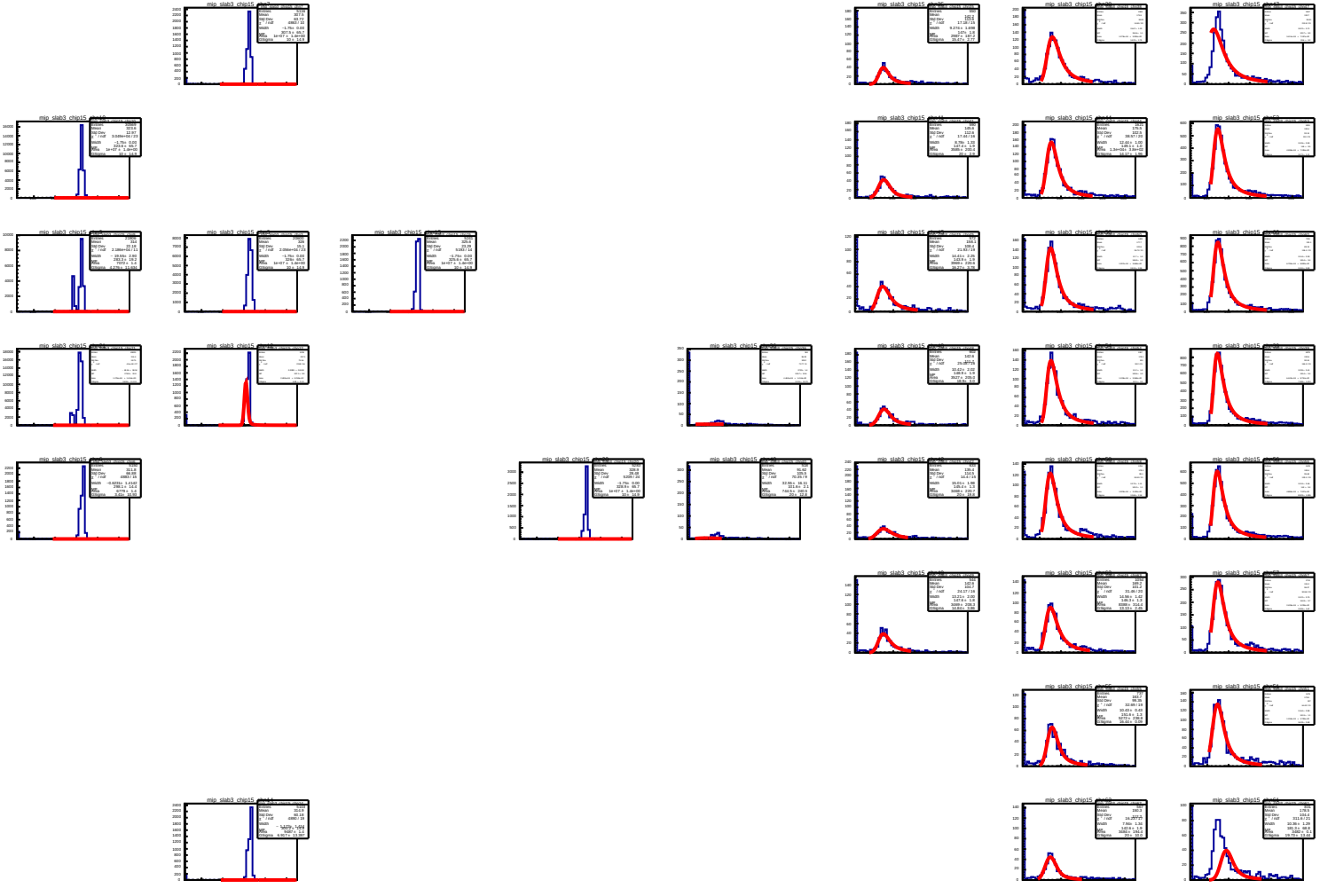

mip slab3 chip14
Entries 1014
Mean 20.72
RMS 20.72 / 12
Mean 20.66 ± 0.20
Sigma 9.24 ± 0.14
MPV 7.00 ± 0.71
Chi2/ndf 24 / 18

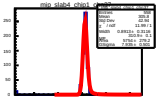

mip slab3 chip11
Entries 102.2
Mean 117.8
RMS 117.8 / 21.15
Mean 0.001 ± 0.007
Sigma 1114.0 ± 0.0
MPV 1114.0 ± 0.0
Chi2/ndf 1.0 / 0.0

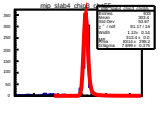

mip slab3 chip11
Entries 103.5
Mean 33.6
RMS 33.6 / 14
Mean 33.62 ± 0.0
Sigma 0.0 ± 0.0
MPV 0.0 ± 0.0
Chi2/ndf 0.0 / 0.0

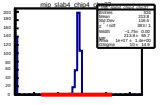

mip_slab3_chip12_chan50
mip_slab3_chip12_chan56
mip_slab3_chip12_chan62
mip_slab3_chip12_chan63
mip_slab3_chip12_chan64

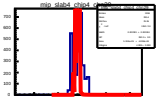


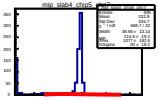


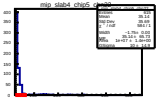

mip_slabd_chip1_ch10
Entries 1000
Mean 0.0
Std Dev 10.0
Underflow 0
Overflow 0
Integral 1.000e+3
Skewness 0.00121± 0.01116
Kurtosis 0.0
Mean x 0.0
Mean y 7.000e+2
Sigma x 10.00
Sigma y 2.000
250
200
150
100
50
0

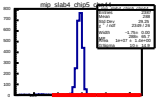

mip slab4 chnB cmnEC
Entries 70000
Mean 33.17
Std Dev 33.07
χ² / ndf 81.12 / 50
Constant 1.12e+04
Mean 3124.4 ± 0.0
Sigma 2.8 ± 0.0
Integral 2.8864 ± 0.0
350
300
250
200
150
100
50
0

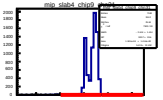

mip_slab4_chip4_ch20
Entries 124
Mean 213.8
Std Dev 33.4
χ² / ndf 2810 / 1
Prob 0.00
Const 213.8 ± 66.7
MPV 54.97 ± 0.13
Sigma 47.1 ± 0.18
200
180
160
140
120
100
80
60
40
20
0

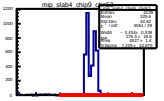

mip_slab4_chip4_ch20
Entries 1000
Mean 47.4
Std Dev 10.1
χ² / ndf 1.1e+06 / 1
Prob 0.00
Const 1.1e+06 ± 1.1e+04
MPV 47.01 ± 0.06
Sigma 1.000 ± 0.000
700
600
500
400
300
200
100
0

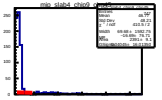

mip slab4 chip5 chan3
Entries 2618
Mean 150.2
Std Dev 150.2
χ² / ndf 3888.7 / 14
Width 10.0000 ± 12.14
Peak 2300.1 ± 2.3
Area 2277.1 ± 2.3
Integral 2277.1 ± 2.3

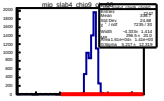

mip slab4 chip5 chan5
Entries 2618
Mean 36.14
Std Dev 36.14
χ² / ndf 5014 / 5
Width -1.75± 0.93
Peak 1e+07 ± 1.8e+03
Area 1e+07 ± 1.8e+03
Integral 2618 ± 0.0

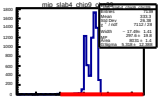

mip slab4 chip5 chan6
Entries 2618
Mean 150.2
Std Dev 7.06
χ² / ndf 2103 / 15
Width -1.75± 0.93
Peak 1e+07 ± 1.8e+03
Area 1e+07 ± 1.8e+03
Integral 2618 ± 0.0

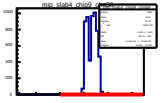

mip_slab4_chip2_chan24

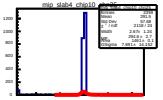

mip_slab4_chip2_chan25

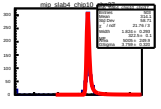

mip_slab4_chip2_chan26

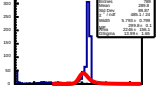

mip_slab4_chip2_chan27

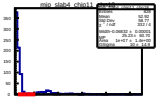

mip_slab4_chip2_chan28

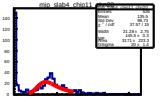

mip_slab4_chip2_chan29

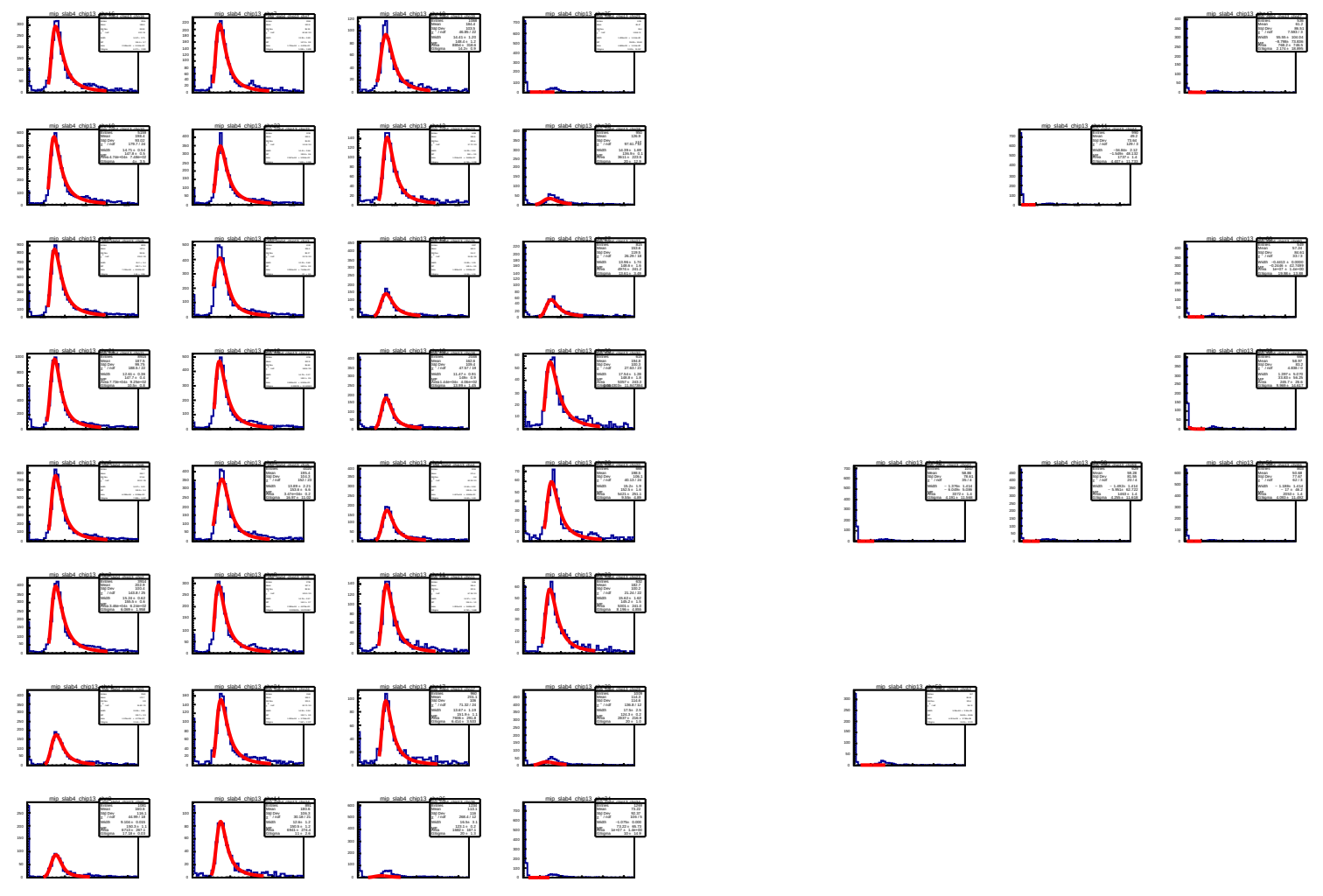

mip_slab4_chip10_
Entries 1000
Mean 252.8
Std Dev 57.08
χ² / ndf 2110 / 79
Width 2.975 ± 0.10
Area 2400 ± 12.1
MPV 1063 ± 1.1
Sigma 0.0611 ± 0.0
1200
1000
800
600
400
200
0

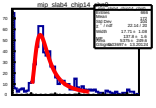

mip_slab4_chip10_
Entries 1000
Mean 54.4
Std Dev 21.79
χ² / ndf 21.79 / 2
Width 1.023 ± 0.259
1014.0 ± 0.1
MPV 1.000 ± 0.000
Sigma 0.000 ± 0.000
300
250
200
150
100
50
0

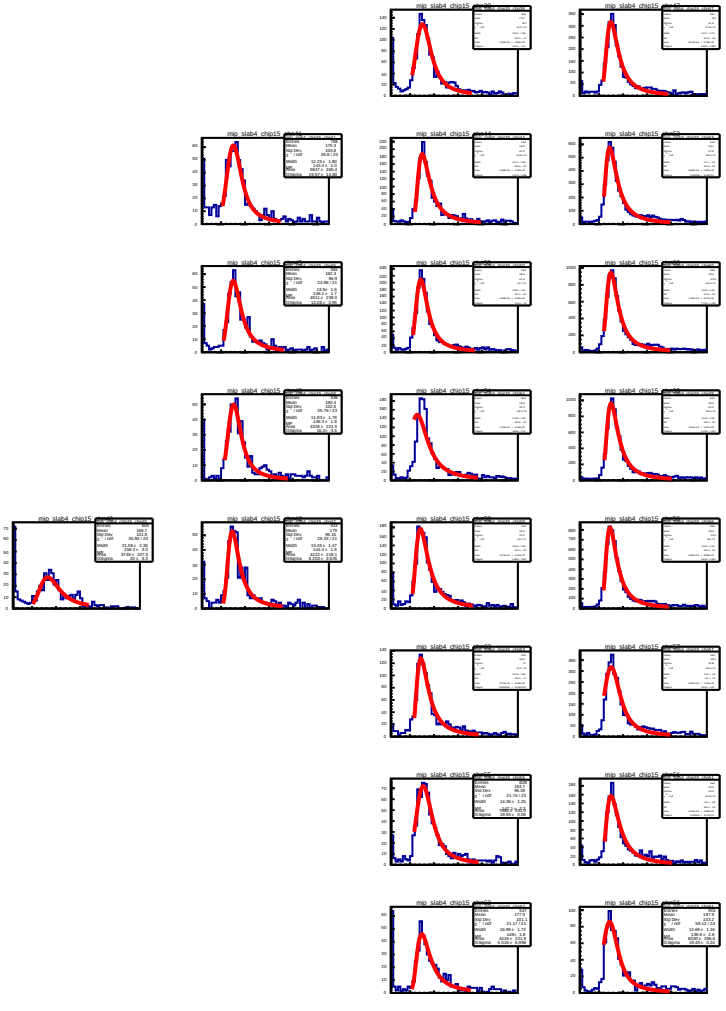

mip_slab4_chip10_
Entries 1000
Mean 252.8
Std Dev 57.08
χ² / ndf 355.7 / 11
Width 3.793 ± 0.709
Area 2400 ± 12.1
MPV 1063 ± 1.1
Sigma 0.0611 ± 0.0
300
250
200
150
100
50
0


mip slab4 chip11 pad15
Entries 52 00
Mean 0.0000
Std Dev 0.0000
χ / ndf 2.0000 / 1
Width 0.0000 ± 0.0000
Area 1.0000 ± 0.0000
Mean 0.0000 ± 0.0000
Sigma 0.0000 ± 0.0000
350
300
250
200
150
100
50
0


mip slab4 chip11 pad15
Entries 1353
Mean 38.12
Std Dev 10.72
χ / ndf 37.67 / 21
Width 21.28 ± 3.75
Area 1.000 ± 0.000
Mean 33.71 ± 2.03
Sigma 21.28 ± 3.75
140
120
100
80
60
40
20
0




msp slab4 chip14 ch0
Entries 1000
Mean 112
RMS 22.147 / 20
Width 17.75 ± 1.28
Peak 1.000 ± 0.000
Area 5370 ± 340.0
Prob 0.000
Chi2/NdofNDF = 13.2/13
70
60
50
40
30
20
10
0


mip slab4 chip15 chan56
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