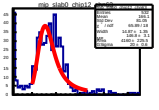
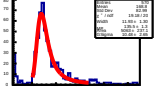
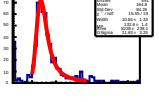
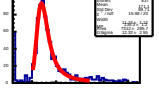
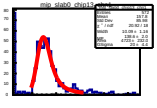
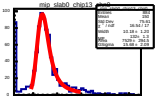

mip_slab0_chip12_chan0
Entries 1394
Mean 105.1
Std Dev 16.14
χ² / ndf 65.89 / 19
Width 14.67 ± 1.35
MPV 146.9 ± 3.1
Area 11192 ± 213
Sigma 7.33 ± 0.16

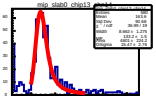

mip_slab0_chip12_chan5
Entries 1462
Mean 102.9
Std Dev 32.06
χ² / ndf 15.79 / 19
Width 11.93 ± 1.16
MPV 139.9 ± 3.3
Area 10284 ± 225
Sigma 10.49 ± 0.25

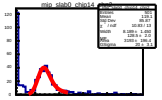

mip_slab0_chip12_chan10
Entries 1394
Mean 84.18
Std Dev 16.27
χ² / ndf 15.93 / 19
Width 10.60 ± 1.20
MPV 102.9 ± 2.8
Area 9200 ± 198.1
Sigma 11.65 ± 0.25

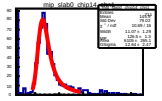

mip_slab0_chip12_chan15
Entries 1394
Mean 101.4
Std Dev 15.98
χ² / ndf 15.98 / 19
Width 12.89 ± 1.12
MPV 112.2 ± 2.6
Area 12.32 ± 0.25

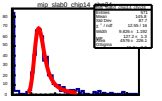

mip_slab0_chip13_chan1
Entries 10000
Mean 19.12
Std Dev 89.99
χ² / ndf 20.95 / 9
Width 15.08 ± 0.14
MPV 138.6 ± 2.0
Integral 1720 ± 10.0
Sigma 24.7 ± 0.2

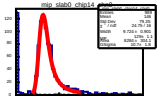

mip_slab0_chip13_chan2
Entries 7848
Mean 16.94
Std Dev 16.94 / 17
χ² / ndf 16.94 / 17
Width 10.18 ± 1.21
MPV 75.00 ± 1.0
Integral 75000 ± 245.5
Sigma 15.68 ± 0.5

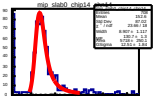

mip_slab0_chip13_chan3
Entries 10000
Mean 16.12
Std Dev 16.12
χ² / ndf 16.89 / 15
Width 8.660 ± 1.375
MPV 75.00 ± 1.0
Integral 4400 ± 24.5
Sigma 15.27 ± 0.5

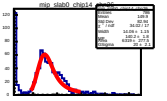

mip_slab0_chip14_chan1
Entries 1251
Mean 3.57
Std Dev 1.17
χ² / ndf 10.83 / 13
Width 6.189 ± 1.450
MPV 1.139 ± 2.0
Area 5.695 ± 0.7
Sigma 0.9 ± 0.1

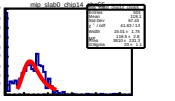

mip_slab0_chip14_chan2
Entries 1197
Mean 14.87
Std Dev 79.02
χ² / ndf 10.47 / 13
Width 11.07 ± 1.19
MPV 128.9 ± 1.3
Area 1109 ± 10.2
Sigma 10.9 ± 0.2

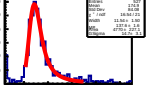

mip_slab0_chip14_chan3
Entries 1423
Mean 127.2
Std Dev 10.97
χ² / ndf 9.926 / 11
Width 9.926 ± 1.165
MPV 127.2 ± 1.3
Area 4976 ± 108.5
Sigma 8.7 ± 0.2

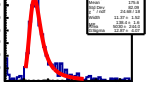

mip_slab0_chip14_chan4
Entries 1251
Mean 79.86
Std Dev 24.751 / 19
Width 9.716 ± 0.801
MPV 8.9 ± 0.5
Area 8266.7 ± 164.3
Sigma 10.7 ± 0.4

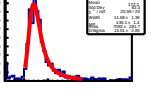

mip_slab0_chip14_chan5
Entries 1197
Mean 19.57
Std Dev 33.667 / 19
Width 8.907 ± 1.317
MPV 12.53 ± 0.6
Area 6.722 ± 265.1
Sigma 12.53 ± 1.6

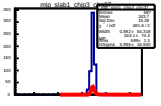

mip_slab0_chip14_chan6
Entries 1423
Mean 39.16
Std Dev 34.427 / 17
Width 14.09 ± 1.19
MPV 26.1 ± 0.8
Area 6.659 ± 277.9
Sigma 26.1 ± 1.1

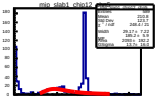

mip_slab0_chip14_chan7
Entries 1251
Mean 75.51
Std Dev 67.43
χ² / ndf 41.42 / 16
Width 15.61 ± 1.76
MPV 138.9 ± 2.6
Area 8810 ± 171.3
Sigma 15.6 ± 0.7

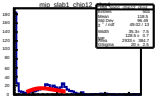

mip_slab0_chip15_chan56
Entries 1522
Mean 84.08
Std Dev 8.08
χ² / ndf 1.05 / 1
MPV 11.64 ± 1.65
Width 3.57 ± 0.8
Area 4770.0 ± 2.1
Integral 12.07 ± 0.1

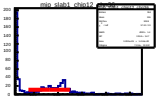

mip_slab0_chip15_chan55
Entries 1522
Mean 83.08
Std Dev 8.08
χ² / ndf 24.48 / 19
MPV 11.37 ± 3.92
Width 3.57 ± 0.8
Area 5000 ± 24.5
Integral 12.07 ± 0.1

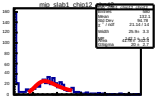

mip_slab0_chip15_chan54
Entries 1522
Mean 73.08
Std Dev 8.08
χ² / ndf 20.98 / 19
MPV 11.88 ± 1.36
Width 3.57 ± 0.8
Area 5000 ± 28.7
Integral 12.07 ± 0.1

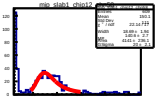

mip_slab1_chip3_ch10
Entries 1000
Mean 1.07
Mean x 1.07
Std Dev 0.14
Std Dev x 0.14
χ² / ndf 49.1 / 17
Prob 0.0011
Constant 1.12 ± 0.10
Mean 1.03 ± 0.01
Sigma 0.0811 ± 0.0120
Integral 0.9900 ± 0.0120
350
300
250
200
150
100
50
0

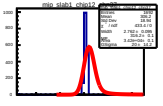

mip slab1 chip12
Mean 213.9
Std Dev 13.7
χ² / ndf 268.4 / 21
Width 29.2 ± 7.2
Peak 2.7 ± 0.4
Area 2900 ± 162.2
Sigma 13.7 ± 0.8

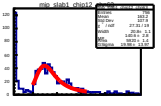

mip slab1 chip12
Mean 109.9
Std Dev 38.8
χ² / ndf 49.02 / 13
Width 19.9 ± 2.5
Peak 1.9 ± 0.3
Area 1610 ± 90.7
Sigma 38.8 ± 2.5

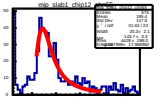

mip slab1 chip12

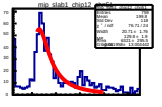

mip slab1 chip12
Mean 152.4
Std Dev 16.7
χ² / ndf 21.12 / 13
Width 25.9± 3.5
Peak 2.8 ± 0.3
Area 1267 ± 63.3
Sigma 16.7 ± 1.1

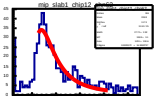

mip slab1 chip12
Mean 100.9
Std Dev 33.1
χ² / ndf 22.12 / 13
Width 18.89± 1.90
Peak 1.9 ± 0.2
Area 1410 ± 70.1
Sigma 33.1 ± 1.9

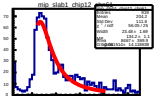

mip slab1 chip12
Mean 159.4
Std Dev 22.7
χ² / ndf 453.6 / 19
Width 2.782± 0.096
Peak 1.304± 0.1
Area 7.1e+3 ± 1.1e+3
Sigma 22.7 ± 0.2

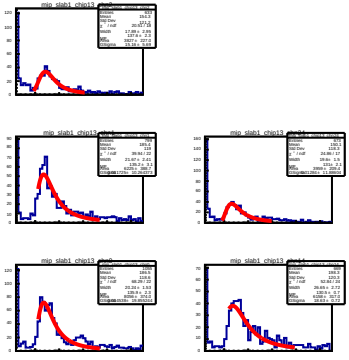

mip slab1 chip12
Mean 159.4
Std Dev 22.7
χ² / ndf 27.31 / 19
Width 20.8± 1.1
Peak 1.85± 0.2
Area 1.1e+3 ± 1.1e+3
Sigma 19.88 ± 1.10


mip slab1 chip12
Mean 159.4
Std Dev 22.7
χ² / ndf 31.62 / 19
Width 20.0± 2.1
Peak 3.82 ± 0.3
Area 1.1e+3 ± 1.1e+3
Sigma 19.11 ± 2.09


mip slab1 chip12
Mean 159.4
Std Dev 22.7
χ² / ndf 76.71 / 19
Width 33.71± 1.16
Peak 3.29 ± 0.4
Area 1.1e+3 ± 1.1e+3
Sigma 32.51 ± 0.83


mip slab1 chip12
Mean 159.4
Std Dev 22.7
χ² / ndf 31.62 / 19
Width 20.0± 2.1
Peak 3.82 ± 0.3
Area 1.1e+3 ± 1.1e+3
Sigma 19.11 ± 2.09


mip slab1 chip12
Mean 159.4
Std Dev 22.7
χ² / ndf 56.28 / 19
Width 23.49± 1.69
Peak 3.29 ± 0.4
Area 1.1e+3 ± 1.1e+3
Sigma 22.51 ± 1.21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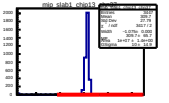
mip slab1 chip13 strip2
mip slab1 chip13 strip3
mip slab1 chip13 strip4
mip slab1 chip13 strip5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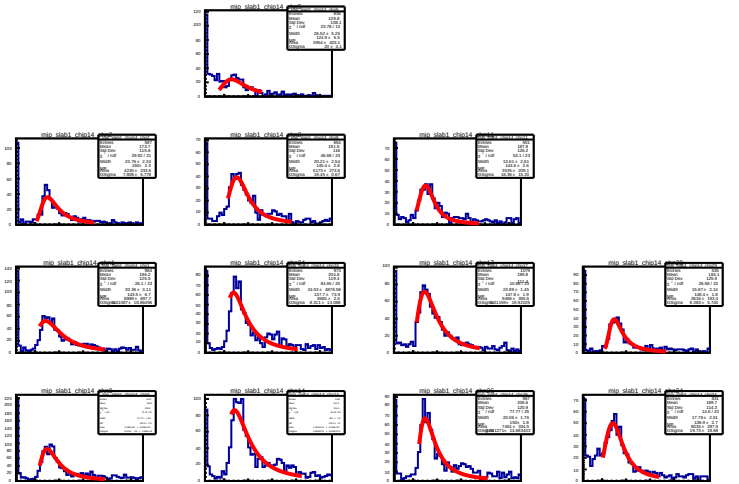
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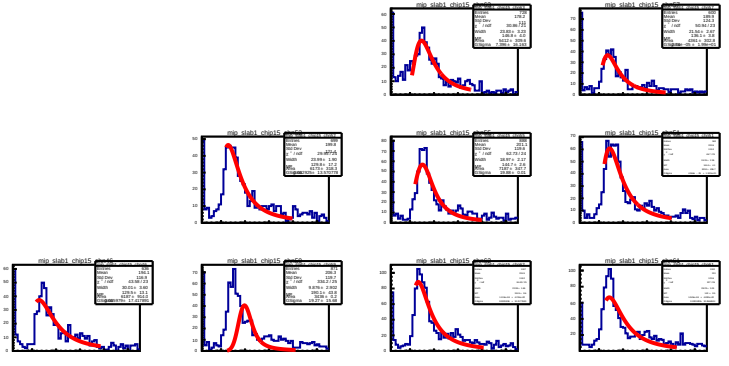
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mip slab1 chip15 chan33
mip slab1 chip15 chan34
mip slab1 chip15 chan35
mip slab1 chip15 chan36
mip slab1 chip15 chan37
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mip slab1 chip15 chan40
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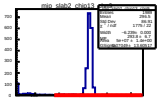
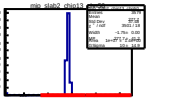
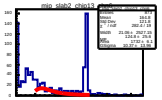
mip slab1 chip15 chan42
mip slab1 chip15 chan43


mip slab2 chip13


mip slab2 chip13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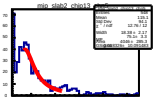
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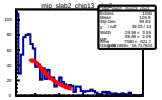
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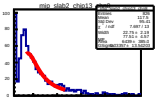
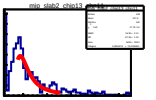

mip slab2 chip13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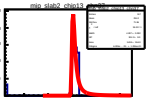
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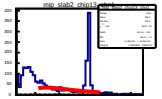
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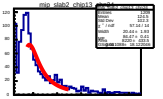
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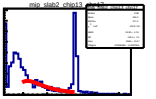
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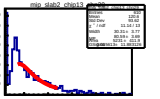
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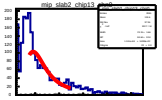
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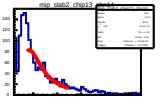
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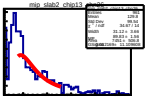
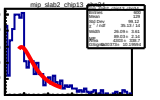

mip slab2 chip13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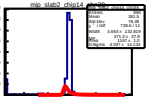
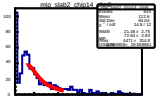
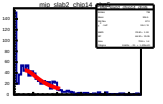
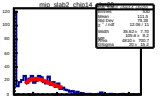
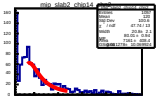
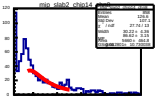

mip slab2 chip14
Mean 24.0
Std Dev 76.38
χ² / ndf 7267.0 / 11
Width 4.663 ± 130.818
MPV 0.000 ± 0.000
Area 7247 ± 7.0
Sigma 4.007 ± 0.219

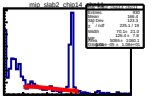

mip slab2 chip14
Mean 11.9
Std Dev 15.12
χ² / ndf 12.00 / 11
Width 35.63 ± 7.75
MPV 0.000 ± 0.000
Area 6610 ± 700.7
Sigma 27.1 ± 2.1

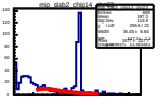


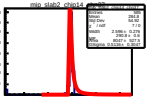

mip slab2 chip14
Mean 11.9
Std Dev 15.12
χ² / ndf 12.00 / 11
Width 35.63 ± 7.75
MPV 0.000 ± 0.000
Area 6610 ± 700.7
Sigma 27.1 ± 2.1

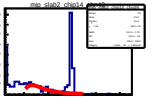

mip slab2 chip14
Mean 12.0
Std Dev 14.87
χ² / ndf 47.74 / 13
Width 23.39 ± 2.1
MPV 30.00 ± 0.84
Area 1.0 ± 0.0
Sigma 11.7 ± 0.0

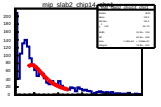

mip slab2 chip14
Mean 12.0
Std Dev 14.87
χ² / ndf 27.74 / 13
Width 30.27 ± 0.75
MPV 89.82 ± 0.13
Area 1.0 ± 0.0
Sigma 0.0 ± 0.0

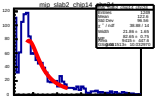

mip slab2 chip14
Mean 12.0
Std Dev 14.87
χ² / ndf 205.1 / 16
Width 75.14 ± 21.0
MPV 139.4 ± 7.4
Area 1.0 ± 0.0
Sigma 0.0 ± 0.0

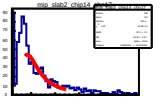

mip slab2 chip14
Mean 12.0
Std Dev 14.87
χ² / ndf 1.7 / 2
Width 35.28 ± 9.44
MPV 147.79 ± 1.7
Area 0.0 ± 0.0
Sigma 11.70 ± 0.0

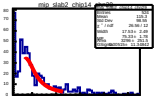

mip slab2 chip14
Mean 12.0
Std Dev 14.87
χ² / ndf 266.8 / 15
Width 2.586 ± 0.278
MPV 300.8 ± 0.4
Area 0.0 ± 0.0
Sigma 0.0 ± 0.0

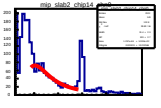


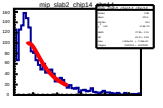

mip slab2 chip14
Mean 12.0
Std Dev 99.56
χ² / ndf 1.0 / 1
Width 11.66 ± 3.45
MPV 60.65 ± 0.75
Area 1.0 ± 0.0
Sigma 11.70 ± 0.0

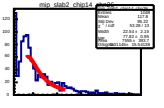

mip slab2 chip14
Mean 12.0
Std Dev 99.56
χ² / ndf 1.0 / 1
Width 11.66 ± 3.45
MPV 60.65 ± 0.75
Area 1.0 ± 0.0
Sigma 11.70 ± 0.0

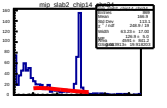


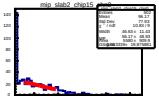

mip slab2 chip14
Mean 12.0
Std Dev 99.56
χ² / ndf 1.0 / 1
Width 17.93 ± 2.16
MPV 75.93 ± 1.78
Area 1.0 ± 0.0
Sigma 11.70 ± 0.0

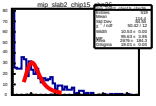


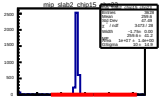


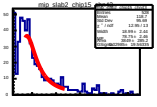

mip slab2 chip14
Mean 12.0
Std Dev 99.56
χ² / ndf 53.85 / 13
Width 22.64 ± 2.15
MPV 156.9 ± 0.9
Area 7.68 ± 0.02
Sigma 11.70 ± 0.0

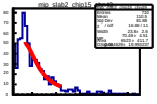

mip slab2 chip14
Mean 12.0
Std Dev 99.56
χ² / ndf 338.8 / 13
Width 63.29 ± 37.00
MPV 0.000 ± 0.000
Area 6491 ± 50.1
Sigma 11.70 ± 0.0

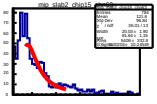

mip_slab2_chip15_chan0
Entries 199
Mean 99.27
Std Dev 10.69 / 8
χ² / ndf 10.69 / 8
Width 46.63 ± 11.49
Mean 99.27 ± 0.76
Sigma 10.69 ± 0.54
Integral 34.67 ± 0.61

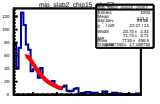

mip_slab2_chip15_chan1
Entries 199
Mean 50.27
Std Dev 50.27 / 12
χ² / ndf 50.27 / 12
Width 33.63 ± 9.05
Mean 50.27 ± 3.56
Sigma 29.91 ± 3.63
Integral 19.01 ± 0.0

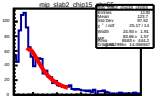

mip_slab2_chip15_chan2
Entries 199
Mean 3.67
Std Dev 0.71
χ² / ndf 3.67 / 1.68
Width -1.74 ± 0.01
Mean -3.67 ± 0.01
Sigma 0.71 ± 0.01
Integral 3.67 ± 0.01

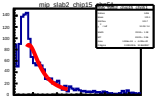

mip_slab2_chip15_chan3
Entries 199
Mean 13.27
Std Dev 99.69
χ² / ndf 12.69 / 8
Width 18.99 ± 2.44
Mean 78.79 ± 2.49
Sigma 99.69 ± 1.69
Integral 34.69 ± 0.61

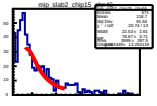

mip_slab2_chip15_chan4
Entries 199
Mean 15.14
Std Dev 16.88 / 11
χ² / ndf 16.88 / 11
Width 22.81 ± 4.4
Mean 55.28 ± 4.52
Sigma 16.88 ± 1.4
Integral 11.0 ± 0.0

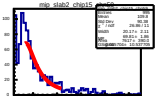

mip_slab2_chip15_chan5
Entries 199
Mean 15.14
Std Dev 26.03 / 13
χ² / ndf 26.03 / 13
Width 30.66 ± 1.95
Mean 55.66 ± 1.39
Sigma 26.03 ± 1.39
Integral 50.0 ± 0.0

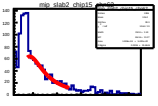

mip_slab2_chip15_chan6
Entries 199
Mean 15.14
Std Dev 22.27 / 11
χ² / ndf 22.27 / 11
Width 23.72 ± 2.21
Mean 71.73 ± 3.71
Sigma 22.27 ± 1.57
Integral 11.0 ± 0.0

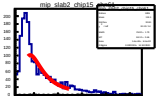

mip_slab2_chip15_chan7
Entries 199
Mean 15.14
Std Dev 37.32
χ² / ndf 25.32 / 12
Width 33.93 ± 1.55
Mean 55.66 ± 1.97
Sigma 37.32 ± 1.39
Integral 14.0 ± 0.0

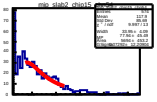

mip_slab2_chip15_chan8
Entries 199
Mean 15.14
Std Dev 0.00 / 0
χ² / ndf nan / 0
Width nan ± nan
Mean nan ± nan
Sigma nan ± nan
Integral 0.0 ± 0.0

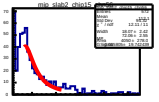

mip_slab2_chip15_chan9
Entries 199
Mean 15.14
Std Dev 20.75 / 13
χ² / ndf 20.75 / 13
Width 23.93 ± 2.61
Mean 55.66 ± 2.91
Sigma 20.75 ± 2.07
Integral 11.0 ± 0.0

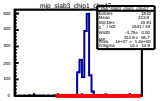

mip_slab2_chip15_chan10
Entries 199
Mean 15.14
Std Dev 19.88 / 11
χ² / ndf 19.88 / 11
Width 29.37 ± 2.11
Mean 55.28 ± 2.37
Sigma 19.88 ± 1.68
Integral 11.0 ± 0.0

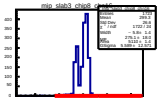

mip_slab2_chip15_chan11
Entries 199
Mean 15.14
Std Dev 0.00 / 0
χ² / ndf nan / 0
Width nan ± nan
Mean nan ± nan
Sigma nan ± nan
Integral 0.0 ± 0.0

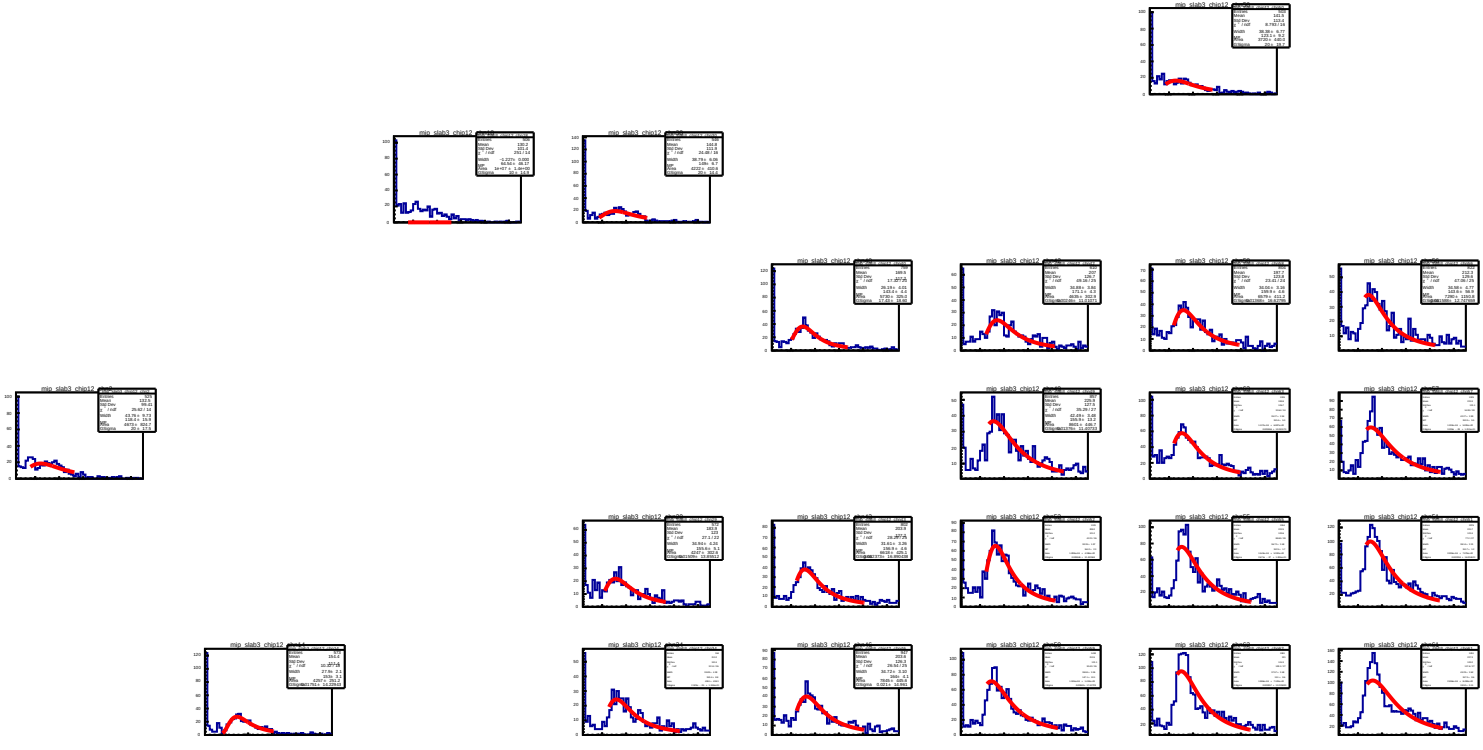

mip_slab2_chip15_chan12
Entries 199
Mean 15.14
Std Dev 0.00 / 0
χ² / ndf nan / 0
Width nan ± nan
Mean nan ± nan
Sigma nan ± nan
Integral 0.0 ± 0.0


mip_slab2_chip15_chan13
Entries 199
Mean 12.13
Std Dev 20.68
χ² / ndf 20.68 / 7
Width 33.95 ± 7.17
Mean 77.60 ± 16.18
Sigma 20.68 ± 10.2
Integral 11.0 ± 0.0


mip_slab2_chip15_chan14
Entries 199
Mean 12.13
Std Dev 12.13 / 11
χ² / ndf 12.13 / 11
Width 16.62 ± 2.45
Mean 60.62 ± 2.75
Sigma 12.13 ± 1.74
Integral 11.0 ± 0.0


mip_slab3_chip1_chan25
Entries 1000
Mean 1.514
Std Dev 19.36
χ² / ndf 2845 / 19
Width 0.7fm - 0.9fm
Peak 3.5e+03 ± 1.4e+02
Mean 1.5e+02 ± 1.4e+01
Sigma 2.0e+ ± 1.0e+01
500
400
300
200
100
0


msp_slab3_chip8_ch14
Entries 1000
Mean 29.12
Std Dev 30.8
χ² / ndf 1727 / 50
Prob 0
Constant ± Err 1.4 ± 0.1
Mean ± Err 29.12 ± 0.4
Sigma ± Err 30.8 ± 0.3
Integral ± Err 1000 ± 22.3
450
400
350
300
250
200
150
100
50
0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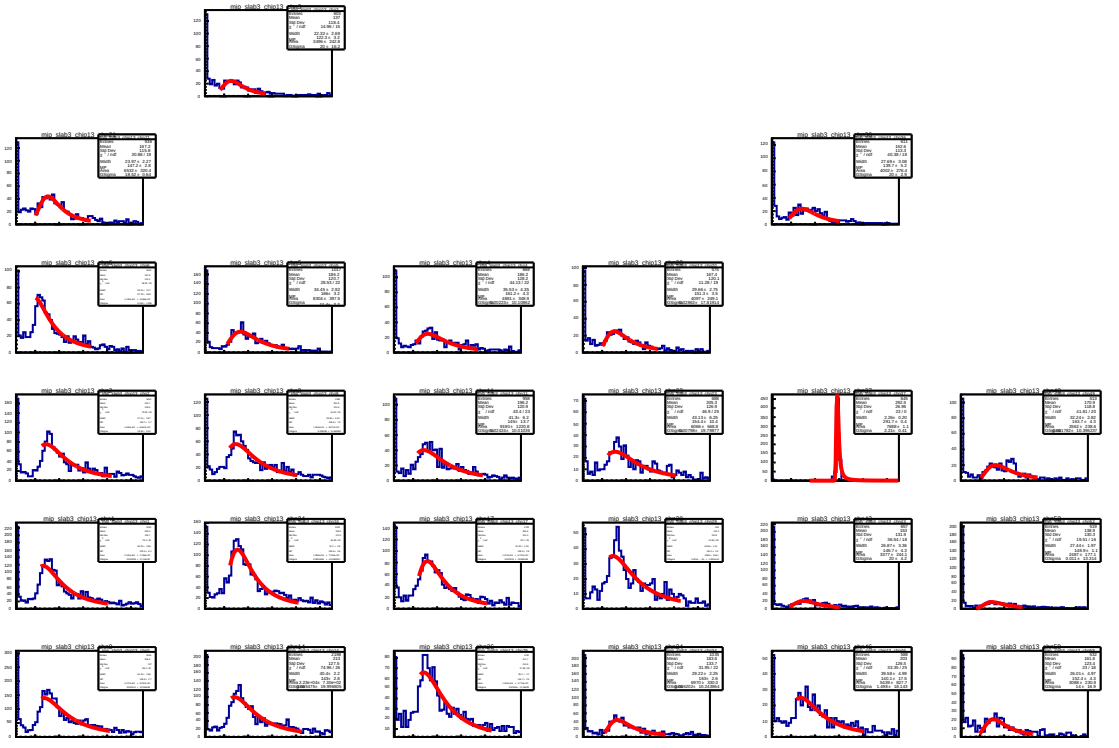
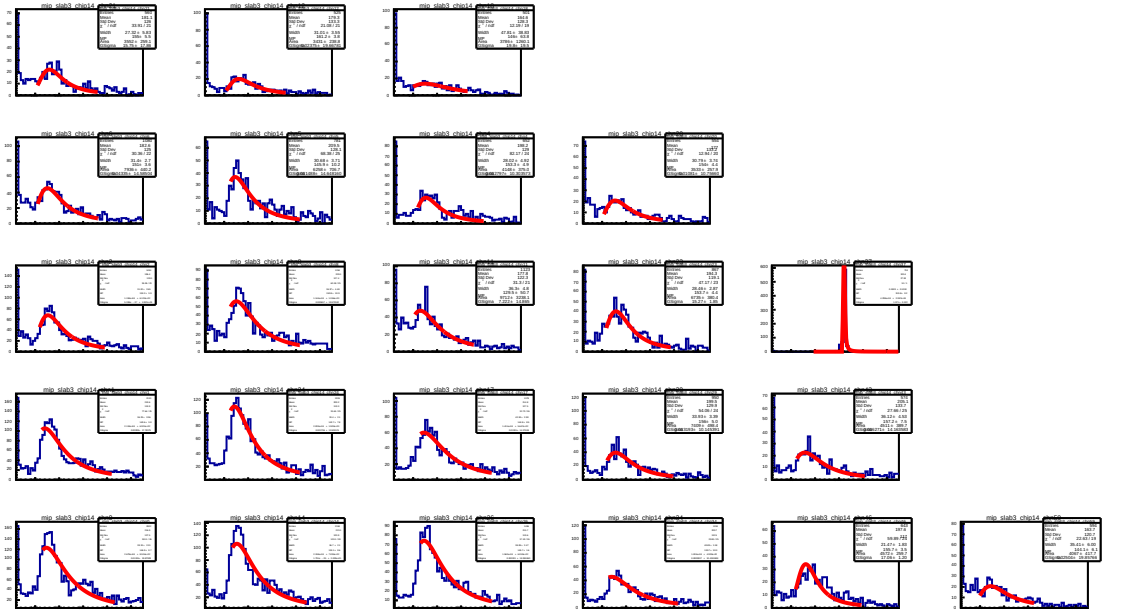
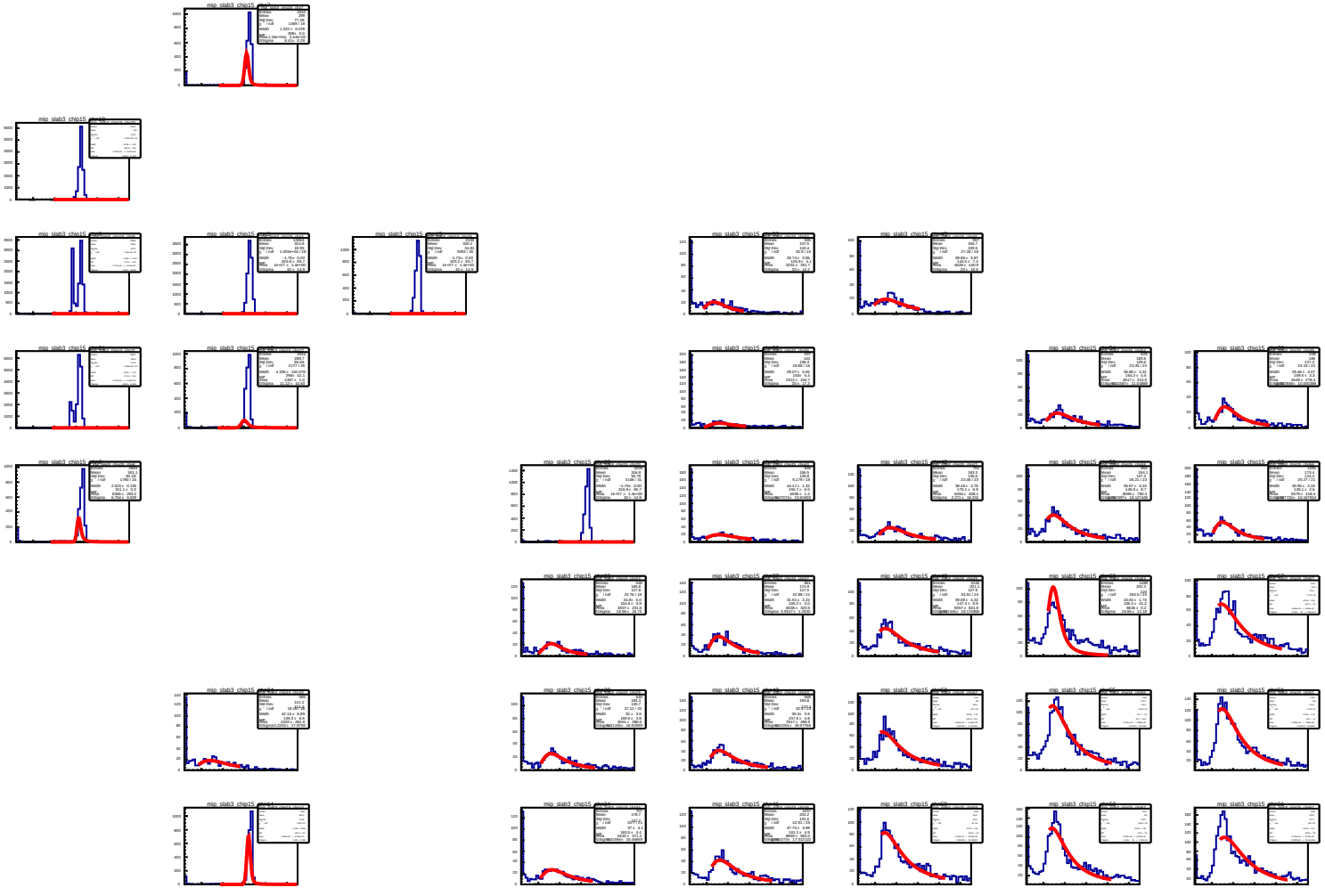
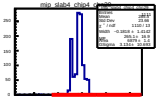
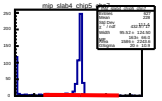
mip_slab3_chip12
mip_slab3_chip12

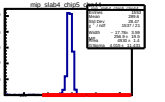


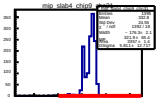


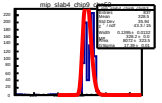


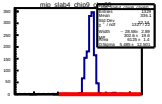

mip slab4 cpb4 ptm20
Entries 1000
Mean 265.8
Std Dev 23.16
χ² / ndf 1.08 / 1
p0 1.3918 ± 1.2515
Mean 265.5 ± 22.8
Sigma 3.1207 ± 0.923
Integral 3.1207 ± 0.923
250
200
150
100
50
0

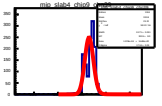

mip slab4 chip5 chan3
Entries 1000
Mean 1.04
Std Dev 0.7 ± 0.02
STAT
Width 55.0 ± 12.0
Mean 1000.1 ± 0.0
Sigma 20.0 ± 0.0
300
250
200
150
100
50
0

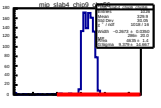

mip slab4 chip5 chan4
Entries 1000
Mean 280.8
Std Dev 15.0 ± 0.1
Width - 17.78± 3.55
Mean 280.8 ± 0.5
Sigma 15.0 ± 0.4
500
400
300
200
100
0

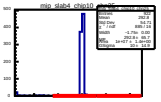
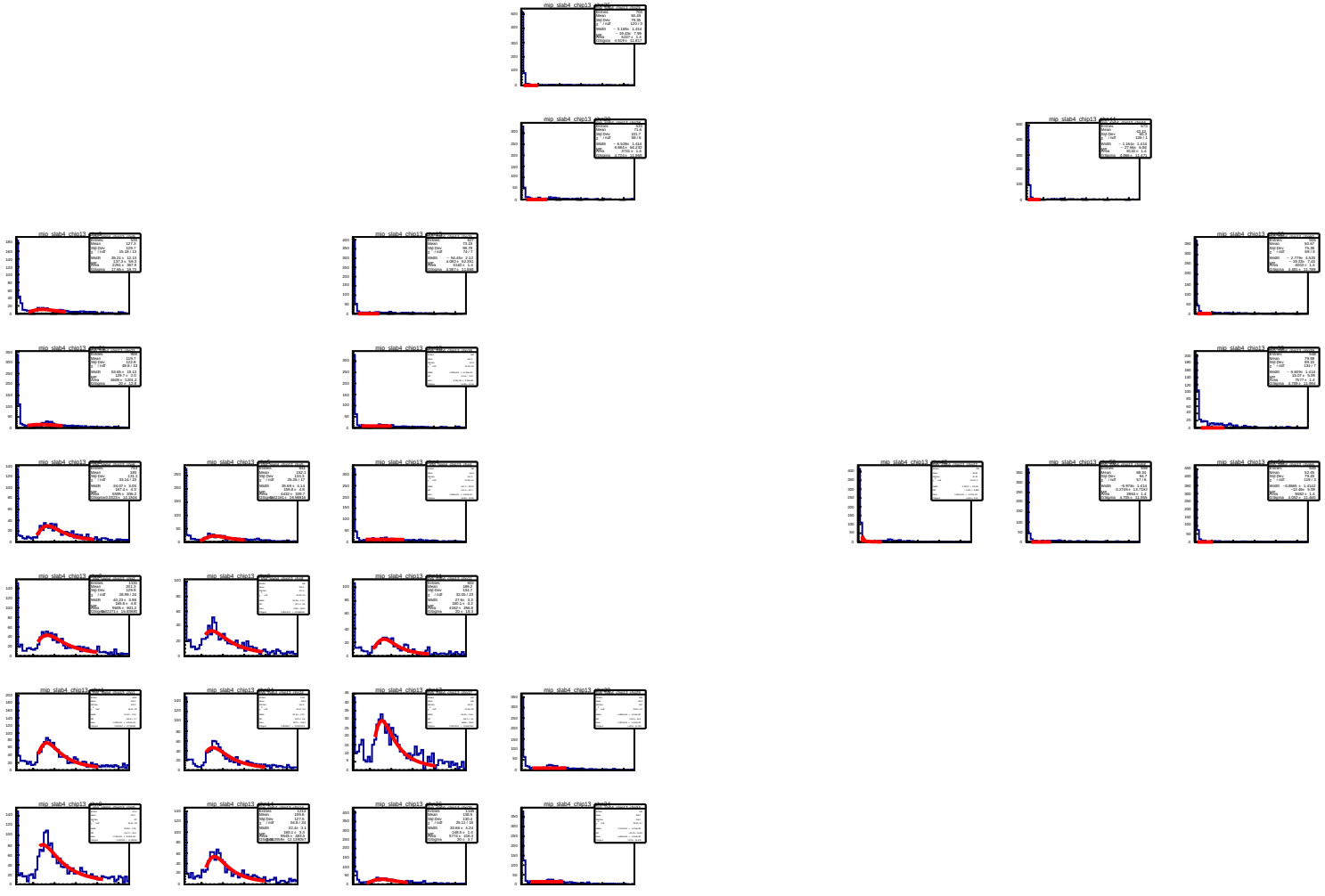
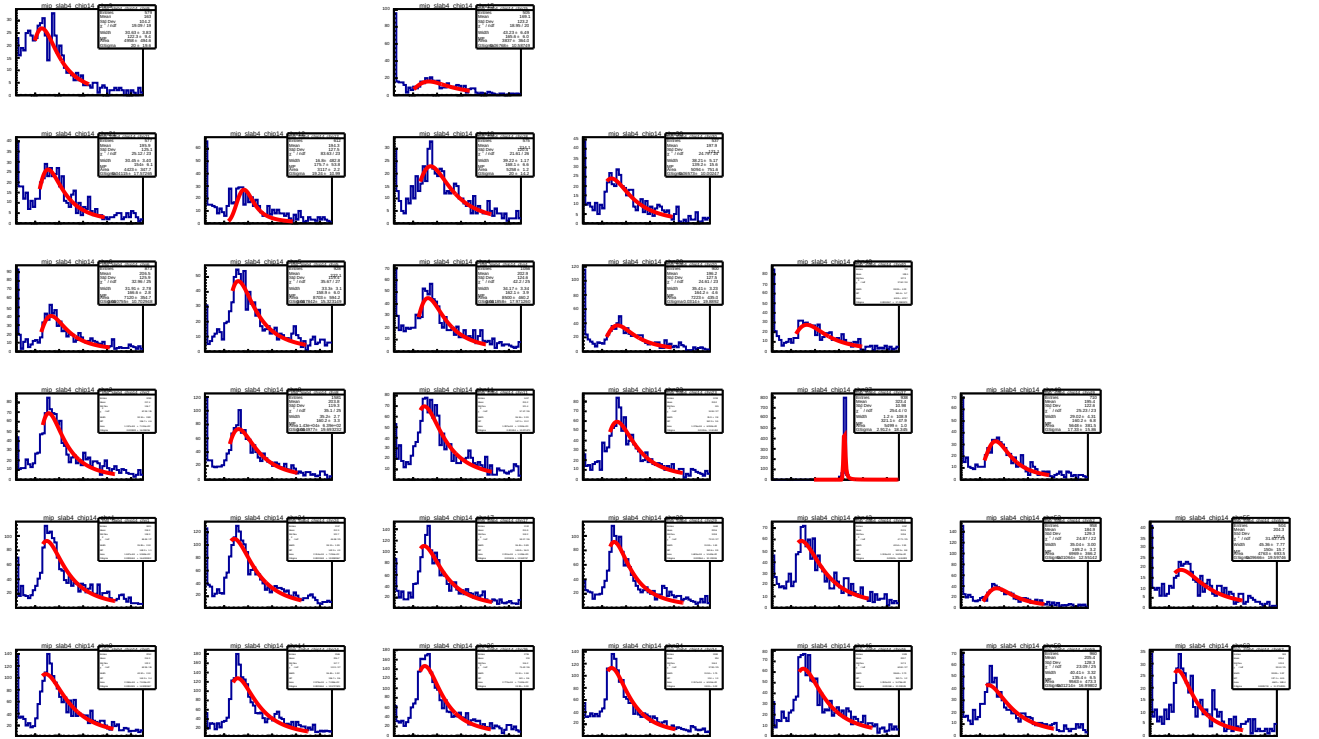
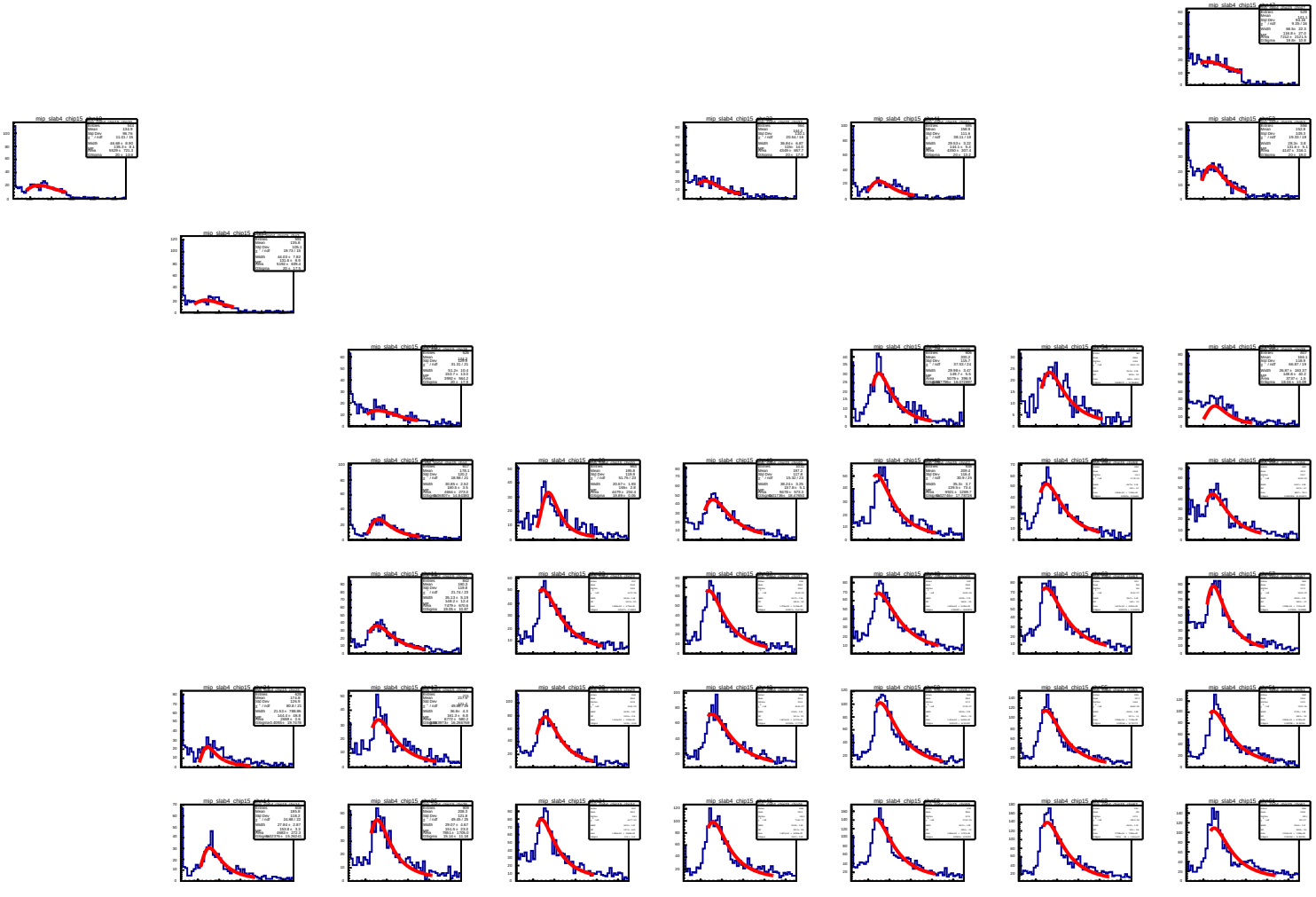

mip_slab4_chip0_ch24
Entries 3512
Mean 28.66
Std Dev 1597.19
χ²/ndf / 29/9 2.1
Width 1.0
MPV 1884.5 1.4
Sigma 5.017± 0.23


mip_slab4_chip0_ch25
Entries 3324
Mean 1329.9
Std Dev 2173.75
χ²/ndf 23/3 7.7
Width 0.13864± 0.0102
MPV 1.0 0.0
Sigma 0.0171± 0.0171


mip_slab4_chip0_ch26
Entries 2314
Mean 1
Std Dev 11.07
χ²/ndf 11/3 15.5
Width 26.98± 2.85
MPV 302.6± 17.4
Sigma 0.0 0.0
Sigma 0.00±0.0 0.0


mip_slab4_chip0_ch27
Entries 1
Mean 0.0
Std Dev 0.0
χ²/ndf 0/0 0.0
Width 0.0
MPV 0.0
Sigma 0.0
Sigma 0.00±0.0 0.0


mip_slab4_chip0_ch28
Entries 2314
Mean 1
Std Dev 10.14
χ²/ndf 10/10 1.0
Width 0.2672± 0.0202
MPV 0.0 0.0
Sigma 0.0±0.0 0.0


mip_slab4_chn31_ped_05
Entries 2917
Mean 54.21
Std Dev 885.73
RMS 2.7e+ 04
Integral 2917.0
Underflow 14+07 F= 1.4e+15
Overflow 0.0 = 0.0
500
400
300
200
100
0