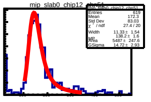
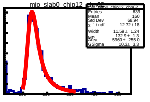
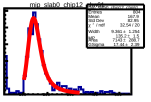
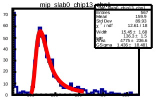
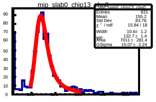
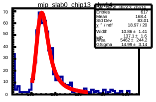

mip_slab0_chip12_chn51
Entries 619
Mean 172.3
Std Dev 83.03
χ² / ndf 27.4 / 20
Width 11.33 ± 1.54
MP 138.2 ± 1.6
Area 5487 ± 247.6
GSigma 14.72 ± 2.93
0
10
20
30
40
50
60
70

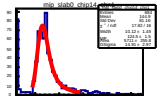

mip_slab0_chip12_chn62
Entries 639
Mean 160
Std Dev 68.94
χ² / ndf 12.72 / 18
Width 11.59 ± 1.24
MP 132.9 ± 1.3
Area 5960 ± 255.0
GSigma 10.3 ± 3.3
0
10
20
30
40
50
60
70
80

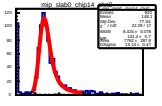

mip_slab0_chip12_chn61
Entries 804
Mean 167.9
Std Dev 82.95
χ² / ndf 32.54 / 20
Width 9.361 ± 1.254
MP 135.2 ± 1.5
Area 7143 ± 288.7
GSigma 17.44 ± 2.39
0
20
40
60
80
100

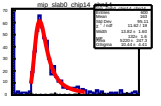

mip_slab0_chip13_
Entries 567
Mean 159.9
Std Dev 89.93
χ² / ndf 12.61 / 18
Width 15.45 ± 1.68
MP 136.3 ± 1.5
Area 4775 ± 236.6
GSigma 1.436 ± 18.481
0
10
20
30
40
50
60
70

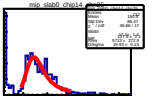

mip_slab0_chip13_
Entries 831
Mean 155.2
Std Dev 83.76
χ² / ndf 15.84 / 18
Width 10.6 ± 1.2
MP 132.7 ± 1.4
Area 7011 ± 281.4
GSigma 15.07 ± 2.24
0
10
20
30
40
50
60
70
80
90

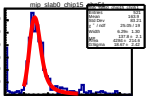

mip_slab0_chip13_
Entries 617
Mean 168.4
Std Dev 83.01
χ² / ndf 18.97 / 20
Width 10.86 ± 1.41
MP 137.1 ± 1.6
Area 5462 ± 244.2
GSigma 14.99 ± 3.14
0
10
20
30
40
50
60
70

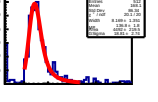

mip_slab0_chip14_chn1

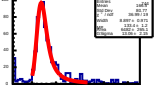

mip_slab0_chip14_chn2

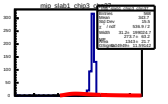

mip_slab0_chip14_chn3

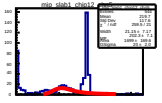

mip_slab0_chip14_chn4

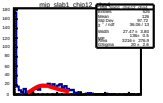

mip_slab0_chip15_chan56

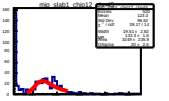

mip_slab0_chip15_chan0

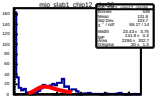

mip_slab0_chip15_chan56

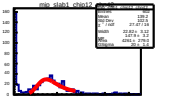

mlp_slab1_chip3_cpu32
300
250
200
150
100
50
0

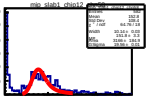

mip_slab1_chip12_chn45
mip_slab1_chip12_chn45
Entries 520
Mean 123.3
Std Dev 96.52
χ² / ndf 39.17 / 14
Width 19.51 ± 2.82
MP 133.3 ± 1.6
Area 3249 ± 235.9
GSigma 20 ± 2.6
0 20 40 60 80 100 120 140 160

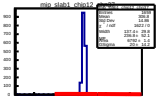

mip_slab1_chip12_chn36
mip_slab1_chip12_chn36
Entries 539
Mean 131.8
Std Dev 103.7
χ² / ndf 86.17 / 14
Width 23.43 ± 3.75
MP 141.8 ± 0.3
Area 2284 ± 202.7
GSigma 20 ± 1.3
0 20 40 60 80 100 120 140 160

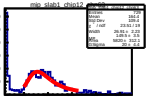

mip_slab1_chip12_chn5
mip_slab1_chip12_chn5
Entries 544
Mean 219.7
Std Dev 117.6
χ² / ndf 259.5 / 21
Width 21.15 ± 7.17
MP 202.3 ± 7.1
Area 1699 ± 169.6
GSigma 20 ± 2.0
0 20 40 60 80 100 120 140 160

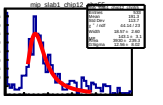

mip_slab1_chip12_chn4
mip_slab1_chip12_chn4
Entries 525
Mean 126
Std Dev 97.72
χ² / ndf 36.06 / 13
Width 27.47 ± 3.80
MP 136 ± 0.5
Area 3216 ± 276.9
GSigma 20 ± 2.6
0 20 40 60 80 100 120 140 160 180

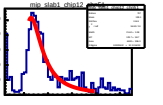

mip_slab1_chip12_chn42
mip_slab1_chip12_chn42
Entries 602
Mean 139.2
Std Dev 102.5
χ² / ndf 27.47 / 16
Width 22.82 ± 3.12
MP 147.9 ± 3.2
Area 4261 ± 279.0
GSigma 20 ± 1.4
0 20 40 60 80 100 120 140 160

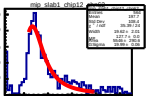

mip_slab1_chip12_chn58
mip_slab1_chip12_chn58
Entries 582
Mean 152.8
Std Dev 108.4
χ² / ndf 64.76 / 18
Width 10.14 ± 0.03
MP 151.8 ± 3.3
Area 3166 ± 184.9
GSigma 19.56 ± 0.01
0 20 40 60 80 100 120

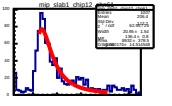

mip_slab1_chip12_chn37
mip_slab1_chip12_chn37
Entries 1659
Mean 306.8
Std Dev 14.86
χ² / ndf 1622 / 0
Width 137.4 ± 29.8
MP 236.8 ± 52.1
Area 6792 ± 1.4
GSigma 20 ± 14.2
0 100 200 300 400 500 600 700 800 900

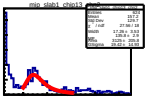

mip_slab1_chip12_chn63
mip_slab1_chip12_chn63
Entries 729
Mean 164.4
Std Dev 109.4
χ² / ndf 23.51 / 19
Width 26.91 ± 2.23
MP 149.5 ± 3.5
Area 5820 ± 312.1
GSigma 20 ± 4.4
0 20 40 60 80 100 120

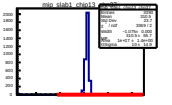

mip_slab1_chip12_chn55
mip_slab1_chip12_chn55
Entries 533
Mean 191.3
Std Dev 113.7
χ² / ndf 44.14 / 23
Width 18.57 ± 2.60
MP 143.1 ± 3.1
Area 3930 ± 239.3
GSigma 12.56 ± 8.02
0 5 10 15 20 25 30 35 40 45

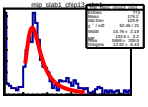

mip_slab1_chip12_chn51
mip_slab1_chip12_chn51
Entries 707
Mean 199.1
Std Dev 116.5
χ² / ndf 56.59 / 24
Width 21.62 ± 3.06
MP 129.7 ± 58.7
Area 6180 ± 996.3
GSigma
0 10 20 30 40 50

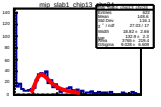

mip_slab1_chip12_chn62
mip_slab1_chip12_chn62
Entries 564
Mean 197.7
Std Dev 108.4
χ² / ndf 35.39 / 24
Width 19.62 ± 2.01
MP 127.7 ± 0.0
Area 5546 ± 290.6
GSigma 19.99 ± 0.06
0 10 20 30 40 50

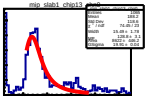

mip_slab1_chip12_chn61
mip_slab1_chip12_chn61
Entries 1007
Mean 206.4
Std Dev 112.7
χ² / ndf 62.55 / 25
Width 20.95 ± 1.54
MP 136.4 ± 0.8
Area 8932 ± 378.5
GSigma 0.000174 ± 14.514548
0 20 40 60 80 100

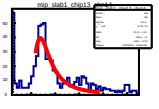

mip_slab1_chip13_chn0

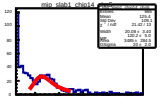
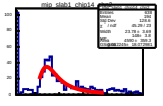
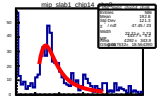
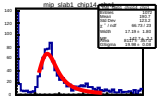
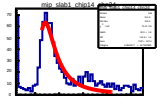
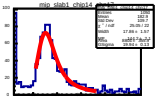
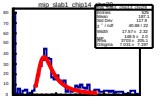
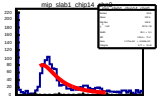
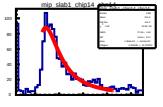
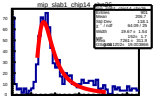
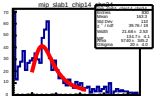

mip_slab1_chip13_chn32

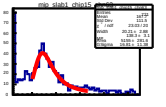
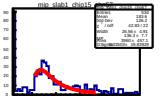
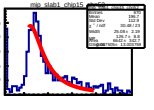
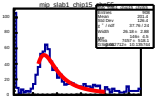
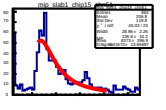
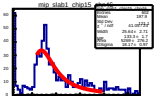
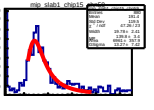
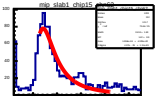
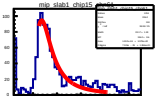

mip_slab1_chip13_chn1

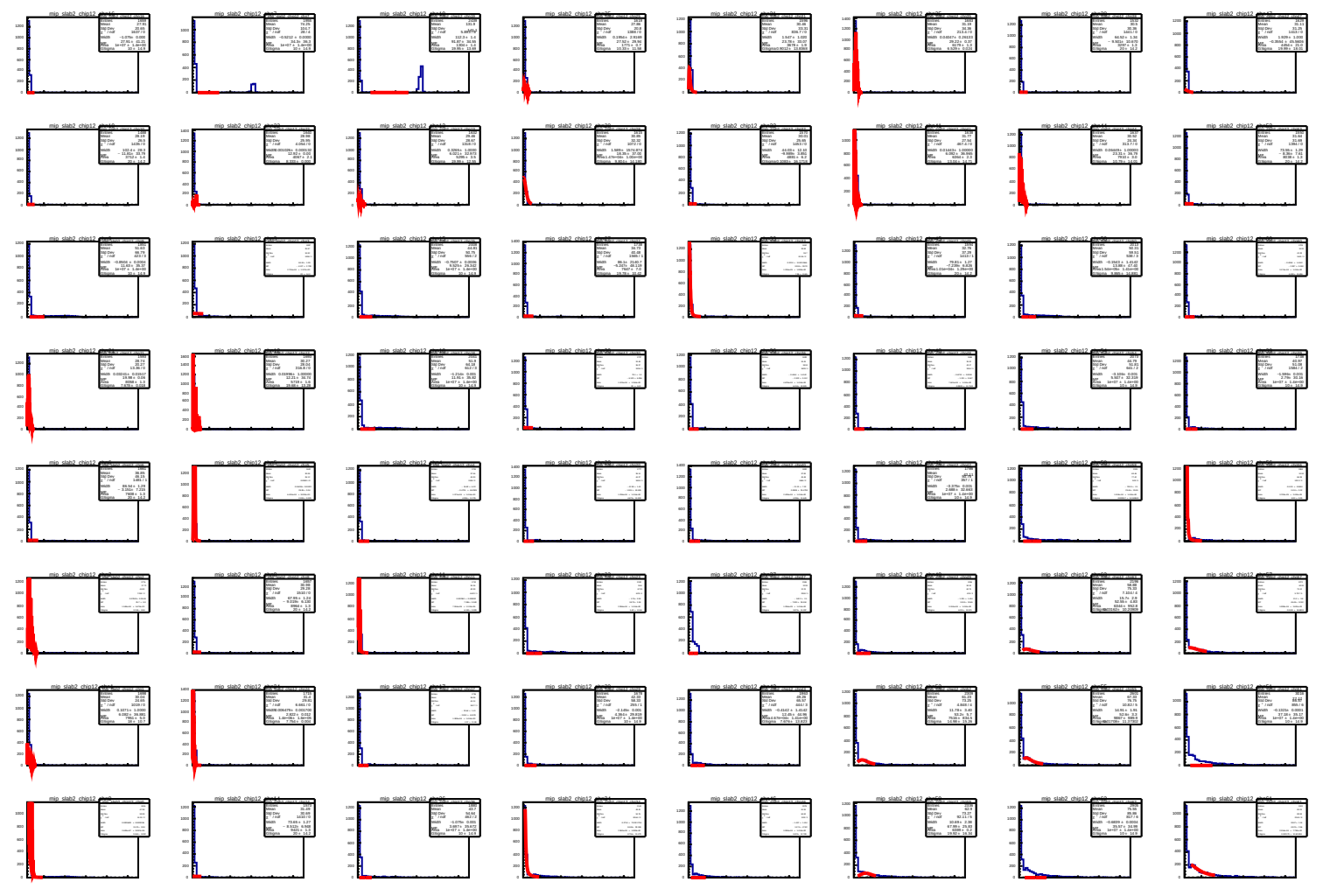

mip_slab1_chip13_chn33

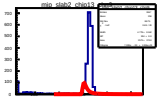

mip_slab1_chip13_chn2

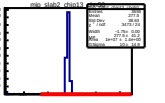

mip_slab1_chip13_chn34

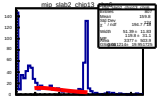

mip_slab1_chip14_chn5

mip_slab1_chip14_chn0

mip_slab1_chip14_chn6

mip_slab1_chip14_chn1

mip_slab1_chip14_chn7

mip_slab1_chip14_chn12

mip_slab1_chip14_chn13

mip_slab1_chip14_chn2

mip_slab1_chip14_chn8

mip_slab1_chip14_chn14

mip_slab1_chip14_chn15

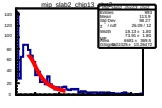

mip_slab1_chip15_chn30

mip_slab1_chip15_chn31

mip_slab1_chip15_chn29

mip_slab1_chip15_chn25

mip_slab1_chip15_chn26

mip_slab1_chip15_chn24

mip_slab1_chip15_chn28

mip_slab1_chip15_chn27

mip_slab1_chip15_chn23

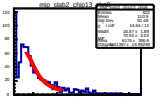


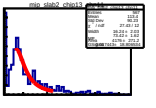

mip_slab2_chip13_chn0

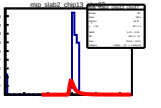

mip_slab2_chip13_chn32

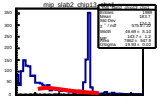

mip_slab2_chip13_chn1

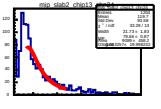

mip_slab2_chip13_chn2

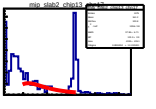

mip_slab2_chip13_chn3

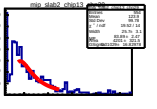

mip_slab2_chip13_chn4

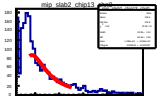

mip_slab2_chip13_chn32

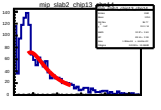

mip_slab2_chip13_chn5

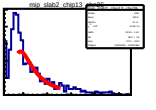

mip_slab2_chip13_chn6

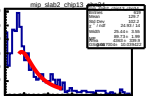

mip_slab2_chip13_chn7

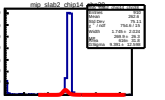

mip_slab2_chip13_chn8

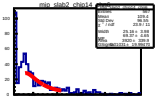

mip_slab2_chip13_chn9

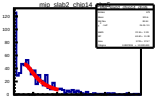

mip_slab2_chip13_chn10

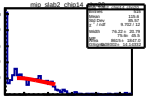

mip_slab2_chip13_chn11

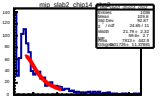

mip_slab2_chip13_chn12

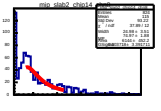

mip_slab2_chip14_chn30

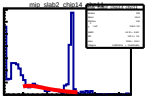

mip_slab2_chip14_chn0

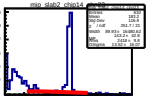

mip_slab2_chip14_chn1

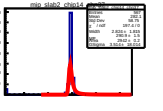

mip_slab2_chip14_chn2

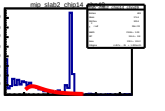

mip_slab2_chip14_chn3

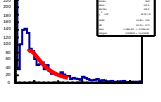

mip_slab2_chip14_chn4

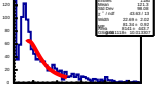

mip_slab2_chip14_chn5

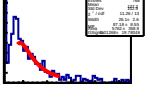

mip_slab2_chip14_chn6

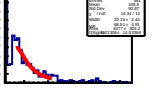

mip_slab2_chip14_chn7

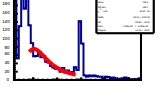

mip_slab2_chip14_chn8

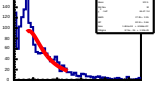

mip_slab2_chip14_chn9

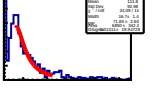

mip_slab2_chip14_chn10

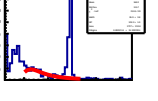

mip_slab2_chip14_chn11

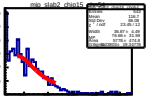
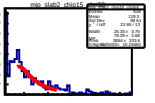
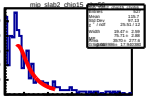
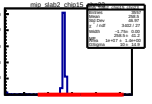
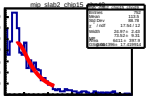
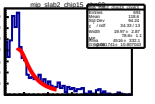
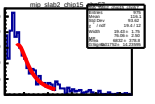
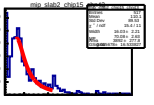
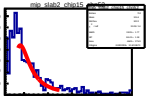
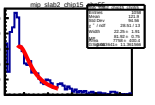
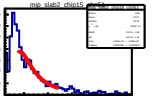
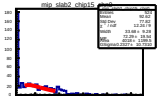
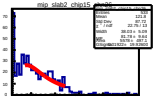
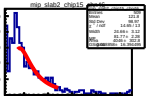
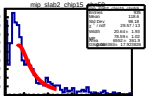
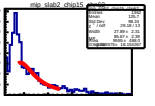
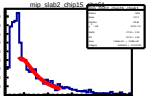

mip_slab2_chip14_chn12

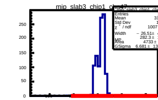

mip_slab2_chip14_chn13

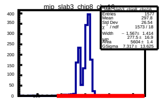

mip_slab2_chip14_chn14

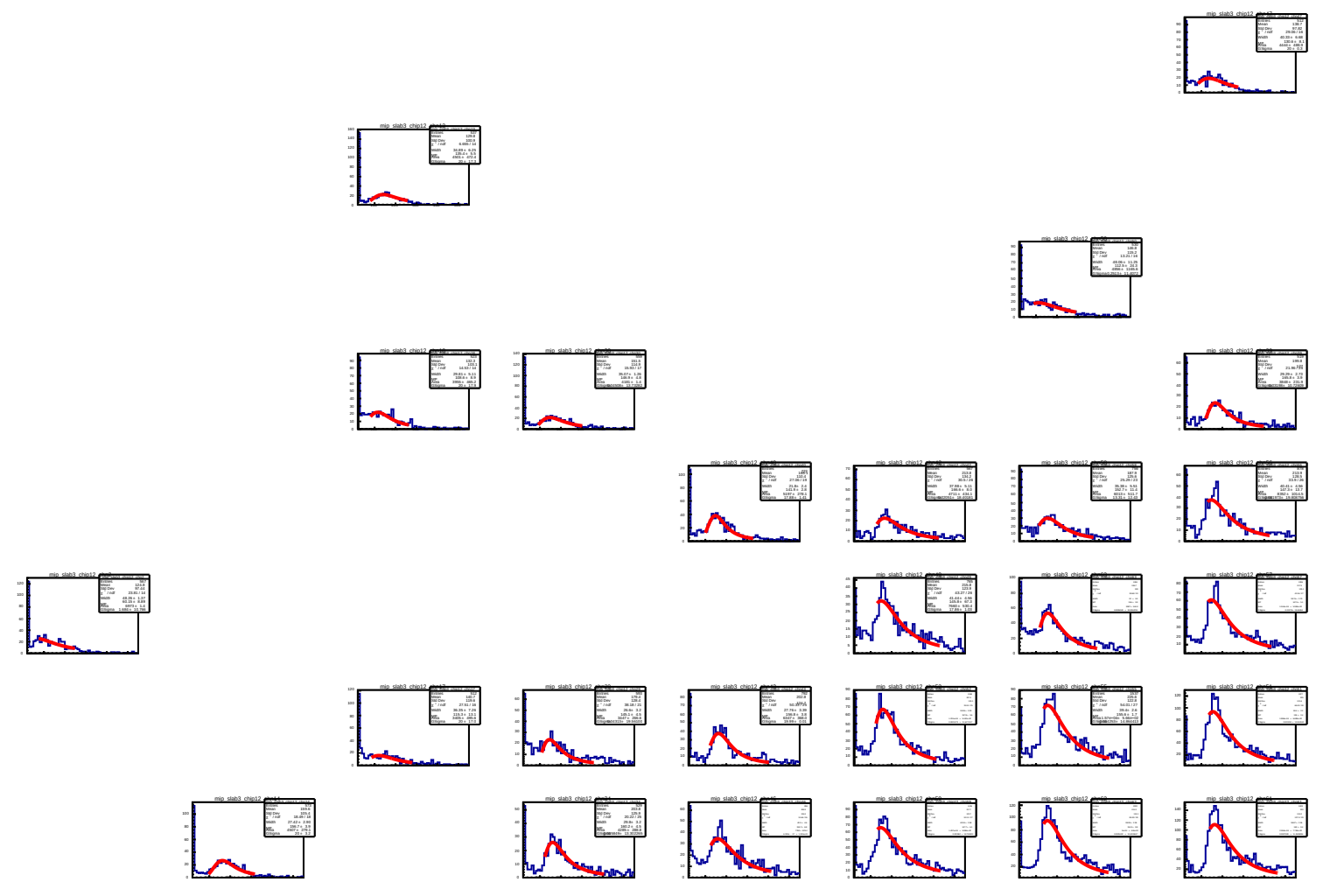

mip_slab2_chip14_chn15

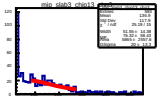
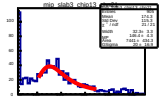
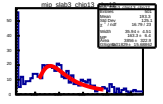
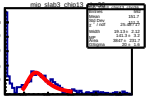
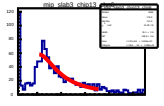
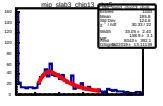
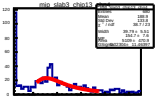
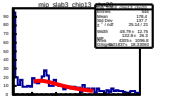
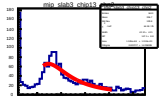
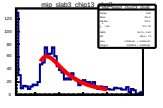
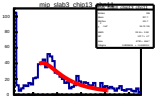
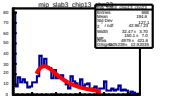
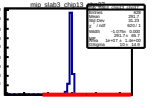
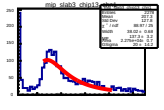
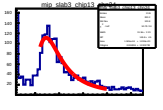
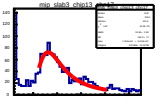
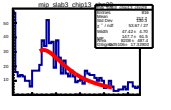
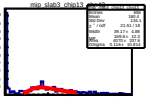
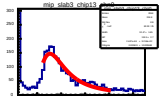
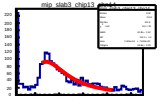
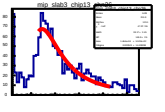
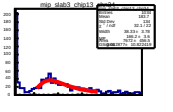
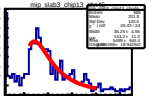
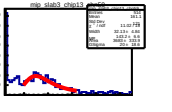

mip_slab2_chip14_chn16

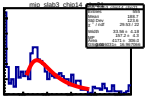

mip_slab2_chip15_chn15

mip_slab2_chip15_chn25

mip_slab2_chip15_chn35

mip_slab2_chip15_chn45

mip_slab2_chip15_chn55

mip_slab2_chip15_chn65

mip_slab2_chip15_chn75

mip_slab2_chip15_chn14

mip_slab2_chip15_chn24

mip_slab2_chip15_chn34

mip_slab2_chip15_chn44

mip_slab2_chip15_chn54

mip_slab2_chip15_chn64

mip_slab2_chip15_chn13

mip_slab2_chip15_chn23

mip_slab2_chip15_chn33

mip_slab2_chip15_chn43

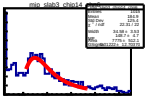

mip_slab3_chip1_chn47
Entries 1008
Mean 311.4
Std Dev 17.61
χ² / ndf 1007 / 11
Width − 26.51 ± 4.67
MP 282.3 ± 19.0
Area 4733 ± 1.4
GSigma 6.681 ± 13.258
250
200
150
100
50
0

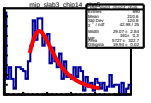

mip_slab3_chip8_chn16
Entries 1577
Mean 297.8
Std Dev 26.54
χ² / ndf 1573 / 18
Width − 1.567 ± 1.414
MP 277.5 ± 16.9
Area 5604 ± 1.4
GSigma 7.317 ± 13.625
400
350
300
250
200
150
100
50
0

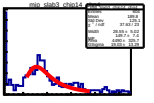


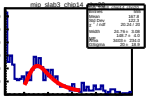

mip_slab3_chip13_chan0

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_chip13_chan13

mip_slab3_chip13_chan14

mip_slab3_chip13_chan15

mip_slab3_chip13_chan16

mip_slab3_chip13_chan17

mip_slab3_chip13_chan18

mip_slab3_chip13_chan19

mip_slab3_chip13_chan20

mip_slab3_chip13_chan21

mip_slab3_chip13_chan22

mip_slab3_chip13_chan23

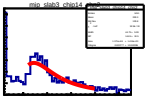


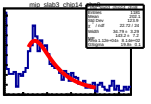


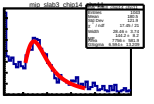


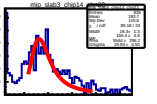


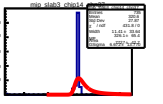


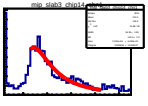


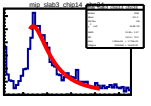


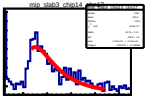


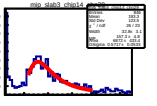


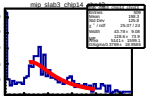


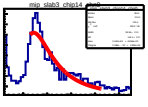


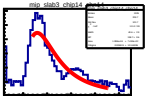


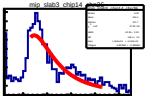


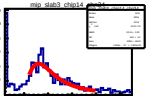


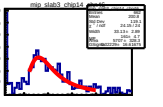


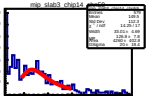




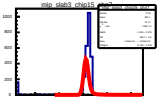
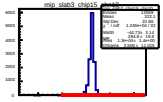
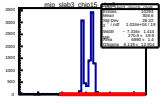
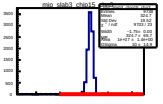
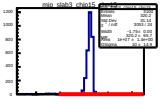
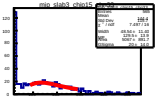
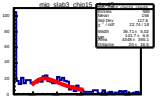
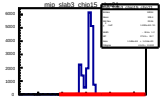
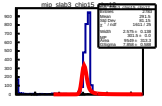
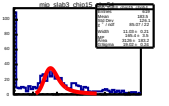
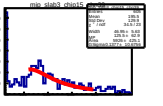
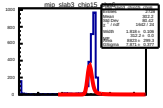
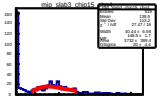
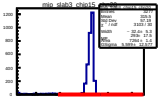
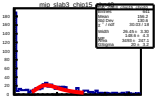
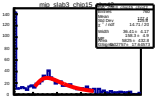
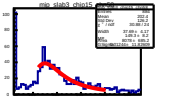
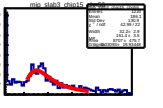
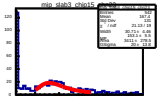
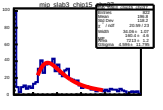
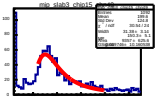
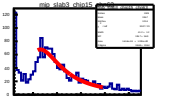
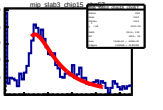
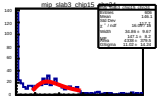
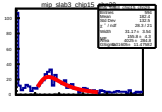
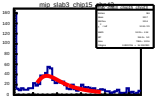
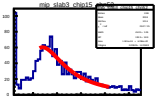
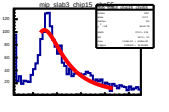
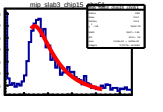
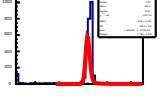
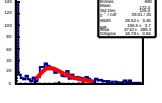
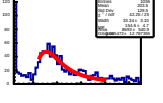
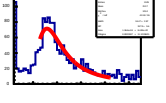
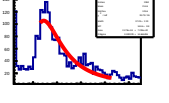
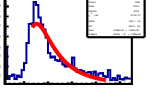


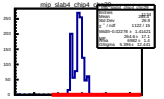


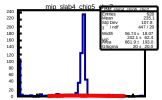


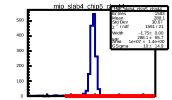


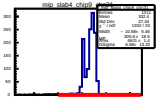
mip_slab3_chip14_chn21
Entries 555
Mean 188.7
Std Dev 123.6
χ² / ndf 29.53 / 22
Width 33.56 ± 4.18
MP 157.2 ± 4.3
Area 4171 ± 306.0
GSigma 0.006031 ± 16.967066
mip_slab3_chip14_chn6
Entries 1015
Mean 184.9
Std Dev 125.4
χ² / ndf 22.31 / 22
Width 34.58 ± 3.53
MP 148.7 ± 4.7
Area 7775 ± 512.1
GSigma 0.01222 ± 12.70370
mip_slab3_chip14_chn5
Entries 690
Mean 210.6
Std Dev 120.8
χ² / ndf 42.98 / 25
Width 29.07 ± 2.84
MP 161 ± 0.3
Area 5727 ± 322.7
GSigma 19.94 ± 0.02
mip_slab3_chip14_chn4
Entries 604
Mean 189.8
Std Dev 125.1
χ² / ndf 37.63 / 23
Width 28.55 ± 5.02
MP 149.7 ± 7.4
Area 4490 ± 325.7
GSigma 19.03 ± 13.29
mip_slab3_chip14_chn20
Entries 555
Mean 167.8
Std Dev 122.3
χ² / ndf 20.24 / 20
Width 24.76 ± 3.08
MP 148.7 ± 4.0
Area 3403 ± 234.0
GSigma 20 ± 18.9
mip_slab3_chip14_chn2
mip_slab3_chip14_chn8
Entries 1181
Mean 202.1
Std Dev 123.9
χ² / ndf 22.72 / 24
Width 34.79 ± 3.29
MP 143.2 ± 7.2
Area 1.12e+04 ± 8.14e+02
GSigma 19.8 ± 0.1
mip_slab3_chip14_chn11
Entries 1043
Mean 180.5
Std Dev 121.9
χ² / ndf 17.45 / 21
Width 28.46 ± 3.74
MP 144.2 ± 8.2
Area 7756 ± 581.9
GSigma 6.594 ± 13.209
mip_slab3_chip14_chn23
Entries 835
Mean 193.7
Std Dev 115.6
χ² / ndf 89.18 / 23
Width 19.3 ± 1.3
MP 155.4 ± 4.6
Area 5564 ± 296.2
GSigma 19.94 ± 0.50
mip_slab3_chip14_chn37
Entries 735
Mean 320.6
Std Dev 27.87
χ² / ndf 431.8 / 0
Width 11.41 ± 33.64
MP 326.1 ± 65.4
Area 7727 ± 42.7
GSigma 6.672 ± 13.770
mip_slab3_chip14_chn1
mip_slab3_chip14_chn24
mip_slab3_chip14_chn17
mip_slab3_chip14_chn29
Entries 846
Mean 193.3
Std Dev 123.5
χ² / ndf 26 / 23
Width 32.8 ± 3.1
MP 157.3 ± 4.8
Area 6872 ± 433.4
GSigma 0.5717 ± 0.0533
mip_slab3_chip14_chn43
Entries 509
Mean 198.3
Std Dev 125.8
χ² / ndf 25.07 / 24
Width 43.78 ± 9.08
MP 128.6 ± 73.9
Area 5141 ± 1599.1
GSigma 0.3769 ± 18.9588
mip_slab3_chip14_chn0
mip_slab3_chip14_chn14
mip_slab3_chip14_chn26
mip_slab3_chip14_chn34
mip_slab3_chip14_chn46
Entries 662
Mean 200.8
Std Dev 119.1
χ² / ndf 24.15 / 24
Width 33.13 ± 2.89
MP 161 ± 4.7
Area 5707 ± 328.3
GSigma 0.02229 ± 16.61675
mip_slab3_chip14_chn59
Entries 579
Mean 149.5
Std Dev 112.3
χ² / ndf 14.25 / 17
Width 33.01 ± 4.69
MP 126.8 ± 7.8
Area 4260 ± 402.8
GSigma 20 ± 19.4

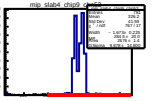

mip_slab3_chip15_ch0

mip_slab3_chip15_ch1

mip_slab3_chip15_ch2

mip_slab3_chip15_ch3

mip_slab3_chip15_ch4

mip_slab3_chip15_ch5

mip_slab3_chip15_ch6

mip_slab3_chip15_ch7

mip_slab3_chip15_ch8

mip_slab3_chip15_ch9

mip_slab3_chip15_ch10

mip_slab3_chip15_ch11

mip_slab3_chip15_ch12

mip_slab3_chip15_ch13

mip_slab3_chip15_ch14

mip_slab3_chip15_ch15

mip_slab3_chip15_ch16

mip_slab3_chip15_ch17

mip_slab3_chip15_ch18

mip_slab3_chip15_ch19

mip_slab3_chip15_ch20

mip_slab3_chip15_ch21

mip_slab3_chip15_ch22

mip_slab3_chip15_ch23

mip_slab3_chip15_ch24

mip_slab3_chip15_ch25

mip_slab3_chip15_ch26

mip_slab3_chip15_ch27

mip_slab3_chip15_ch28

mip_slab3_chip15_ch29

mip_slab3_chip15_ch30

mip_slab3_chip15_ch31

mip_slab3_chip15_ch32

mip_slab3_chip15_ch33

mip_slab3_chip15_ch34

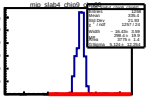

mip_slab4_child_pt20
250
200
150
100
50
0

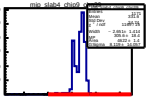

mip_slab4_chip5_
Entries 628
Mean 235.1
Std Dev 107.8
χ² / ndf 447 / 20
Width 56.74 ± 18.07
MP 242.1 ± 62.4
Area 861.9 ± 193.0
GSigma 20 ± 20.0
240
220
200
180
160
140
120
100
80
60
40
20
0

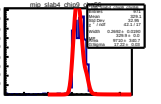

mip_slab4_chip5_
Entries 1583
Mean 288.1
Std Dev 30.67
χ² / ndf 1561 / 21
Width −1.75 ± 0.00
MP 288.1 ± 65.7
Area 1e+07 ± 1.4e+00
GSigma 10 ± 14.9
500
400
300
200
100
0

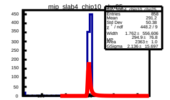

mip_slab4_chip0_det24


mip_slab4_chip0_det25

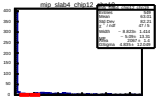
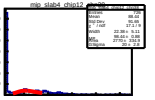
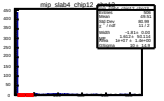
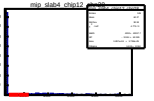
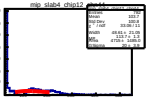
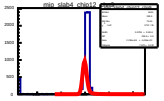
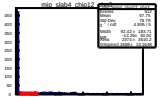
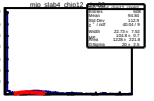
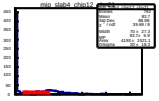
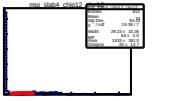
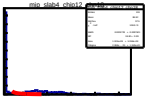
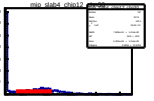
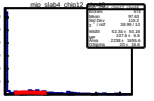
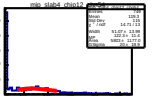
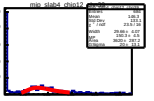
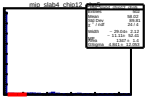
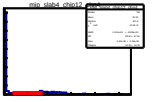
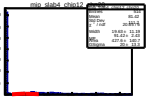
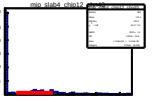

mip_slab4_chip0_det26

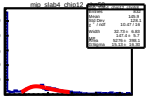
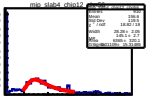
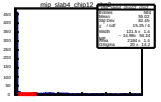
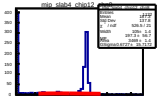
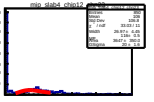
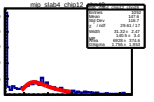
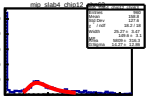
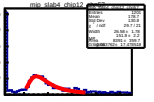
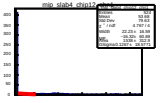
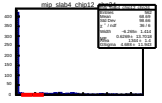
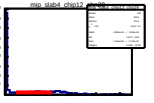
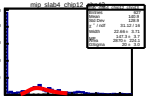
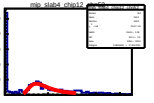
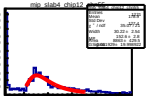
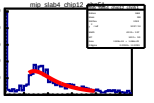
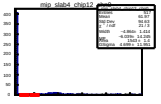
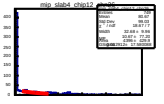
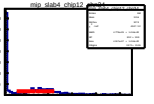
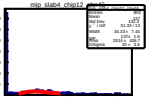
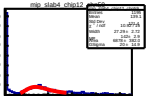

mip_slab4_chip0_det27


mip_slab4_chip0_det28



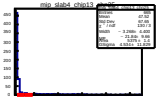
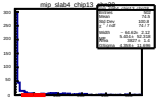
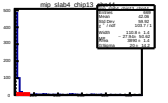
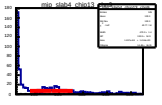
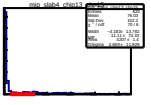
Entries 858
Mean 291.2
Std Dev 50.38
χ² / ndf 448.2 / 9
Width 1.762 ± 556.606
MP 294.9 ± 76.8
Area 2363 ± 1.0
GSigma 2.136 ± 15.697
450
400
350
300
250
200
150
100
50
0

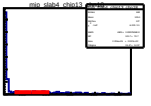
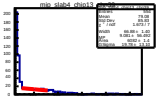
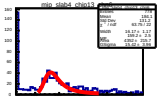
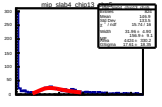
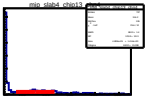
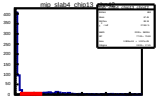
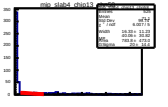
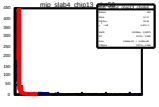
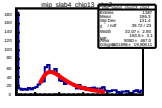
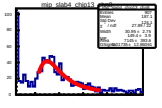
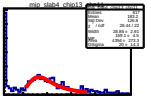
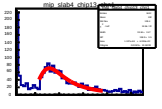
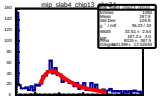
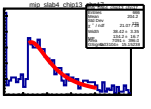
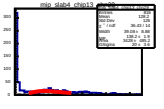
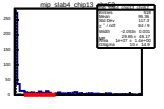
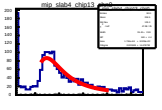
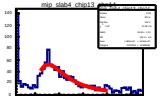
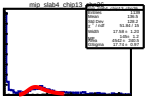
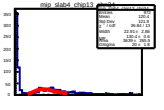

mip_slab4_chip12_chn16

mip_slab4_chip12_chn32

mip_slab4_chip12_chn17

mip_slab4_chip12_chn18

mip_slab4_chip12_chn33

mip_slab4_chip12_chn19

mip_slab4_chip12_chn20

mip_slab4_chip12_chn34

mip_slab4_chip12_chn21

mip_slab4_chip12_chn22

mip_slab4_chip12_chn23

mip_slab4_chip12_chn24

mip_slab4_chip12_chn35

mip_slab4_chip12_chn36

mip_slab4_chip12_chn37

mip_slab4_chip12_chn25

mip_slab4_chip12_chn26

mip_slab4_chip12_chn27

mip_slab4_chip12_chn28

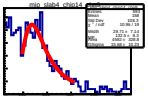
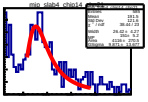
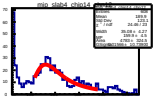
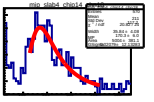
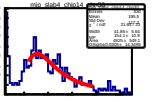
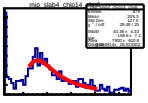
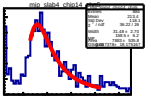
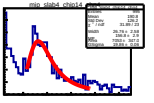
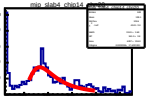
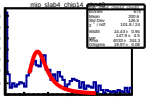
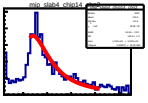
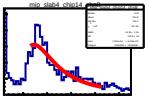
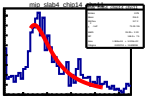
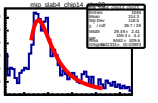
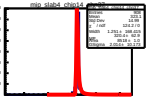
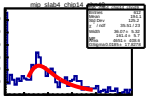
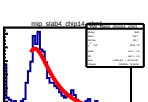
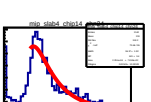
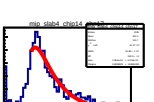
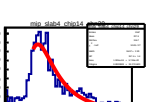
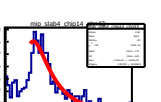
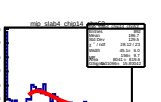
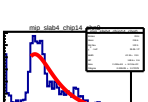
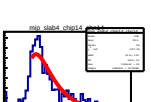
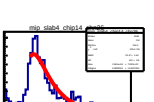
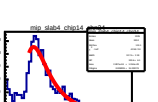
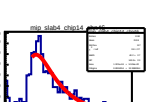
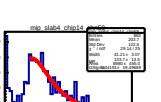
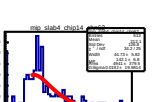
mip_slab4_chip12_chn38

mip_slab4_chip12_chn39

mip_slab4_chip12_chn40

mip_slab4_chip12_chn29

mip_slab4_chip12_chn30

mip_slab4_chip12_chn31

mip_slab4_chip12_chn41

mip_slab4_chip12_chn42

mip_slab4_chip12_chn43

mip_slab4_chip12_chn44

mip_slab4_chip12_chn45

mip_slab4_chip12_chn46

mip_slab4_chip12_chn47

mip_slab4_chip12_chn48

mip_slab4_chip12_chn49

mip_slab4_chip12_chn50

mip_slab4_chip12_chn51

mip_slab4_chip12_chn52

mip_slab4_chip12_chn53

mip_slab4_chip12_chn54

mip_slab4_chip12_chn55

mip_slab4_chip12_chn56

mip_slab4_chip12_chn57


mip_slab4_chip13_ch16

mip_slab4_chip13_ch17

mip_slab4_chip13_ch21

mip_slab4_chip13_ch24

mip_slab4_chip13_ch25

mip_slab4_chip13_ch28

mip_slab4_chip13_ch29

mip_slab4_chip13_ch32

mip_slab4_chip13_ch33

mip_slab4_chip13_ch34

mip_slab4_chip13_ch35

mip_slab4_chip13_ch36

mip_slab4_chip13_ch37

mip_slab4_chip13_ch38

mip_slab4_chip13_ch41

mip_slab4_chip13_ch42

mip_slab4_chip13_ch43

mip_slab4_chip13_ch44

mip_slab4_chip13_ch45

mip_slab4_chip13_ch46

mip_slab4_chip13_ch47

mip_slab4_chip13_ch48

mip_slab4_chip13_ch51

mip_slab4_chip13_ch52

mip_slab4_chip13_ch53

mip_slab4_chip13_ch54


mip_slab4_chip14_chn0

mip_slab4_chip14_chn1

mip_slab4_chip14_chn2

mip_slab4_chip14_chn3

mip_slab4_chip14_chn4

mip_slab4_chip14_chn5

mip_slab4_chip14_chn6

mip_slab4_chip14_chn7

mip_slab4_chip14_chn8

mip_slab4_chip14_chn9

mip_slab4_chip14_chn10

mip_slab4_chip14_chn11

mip_slab4_chip14_chn12

mip_slab4_chip14_chn13

mip_slab4_chip14_chn14

mip_slab4_chip14_chn15

mip_slab4_chip14_chn16

mip_slab4_chip14_chn17

mip_slab4_chip14_chn18

mip_slab4_chip14_chn19

mip_slab4_chip14_chn20

mip_slab4_chip14_chn21

mip_slab4_chip14_chn22

mip_slab4_chip14_chn23

mip_slab4_chip14_chn24

mip_slab4_chip14_chn25

mip_slab4_chip14_chn26

mip_slab4_chip14_chn27

mip_slab4_chip14_chn28

mip_slab4_chip15_cha10
Entries
Mean
Std Dev
χ² / ndf
Width
MP
Area
GSigma