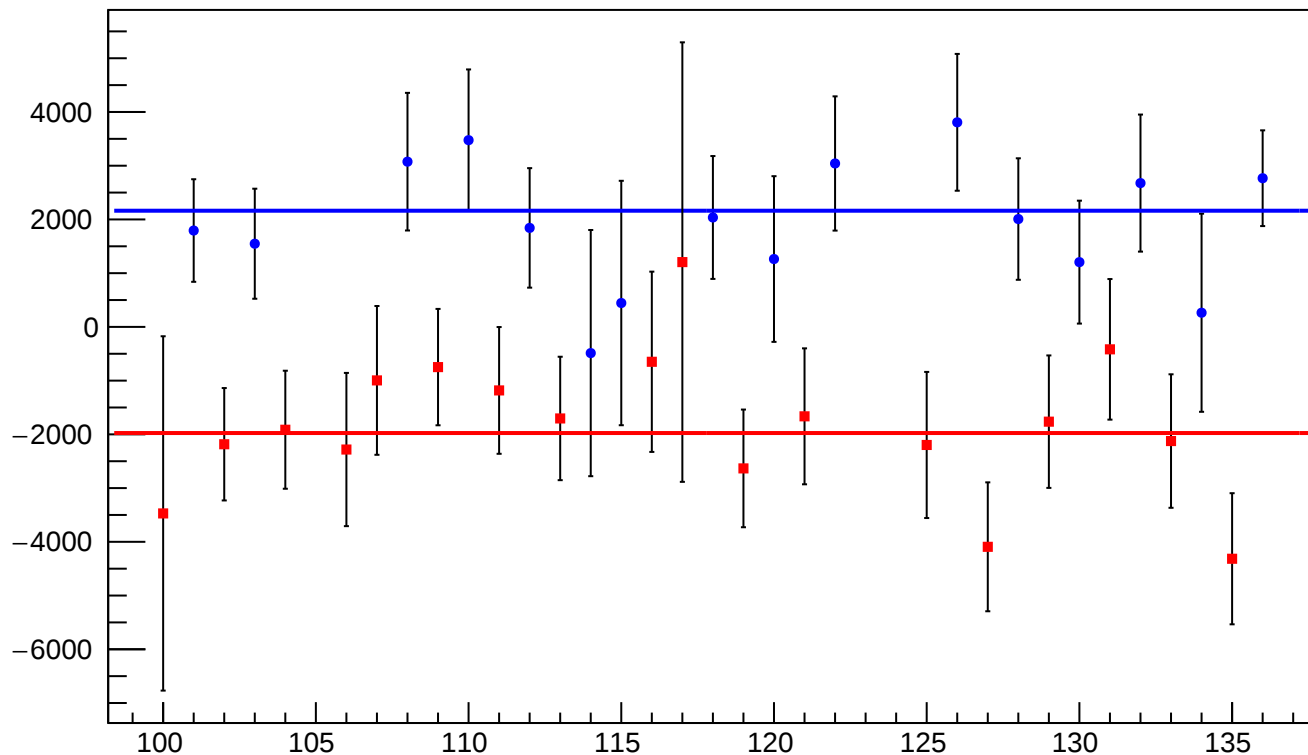


# reg\_asym\_us\_avg\_mean vs Slug



Right In: 2162.311+/-307.312  $\chi^2/\text{NDF}$ : 8.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1975.275+/-303.602  $\chi^2/\text{NDF}$ : 12.5/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

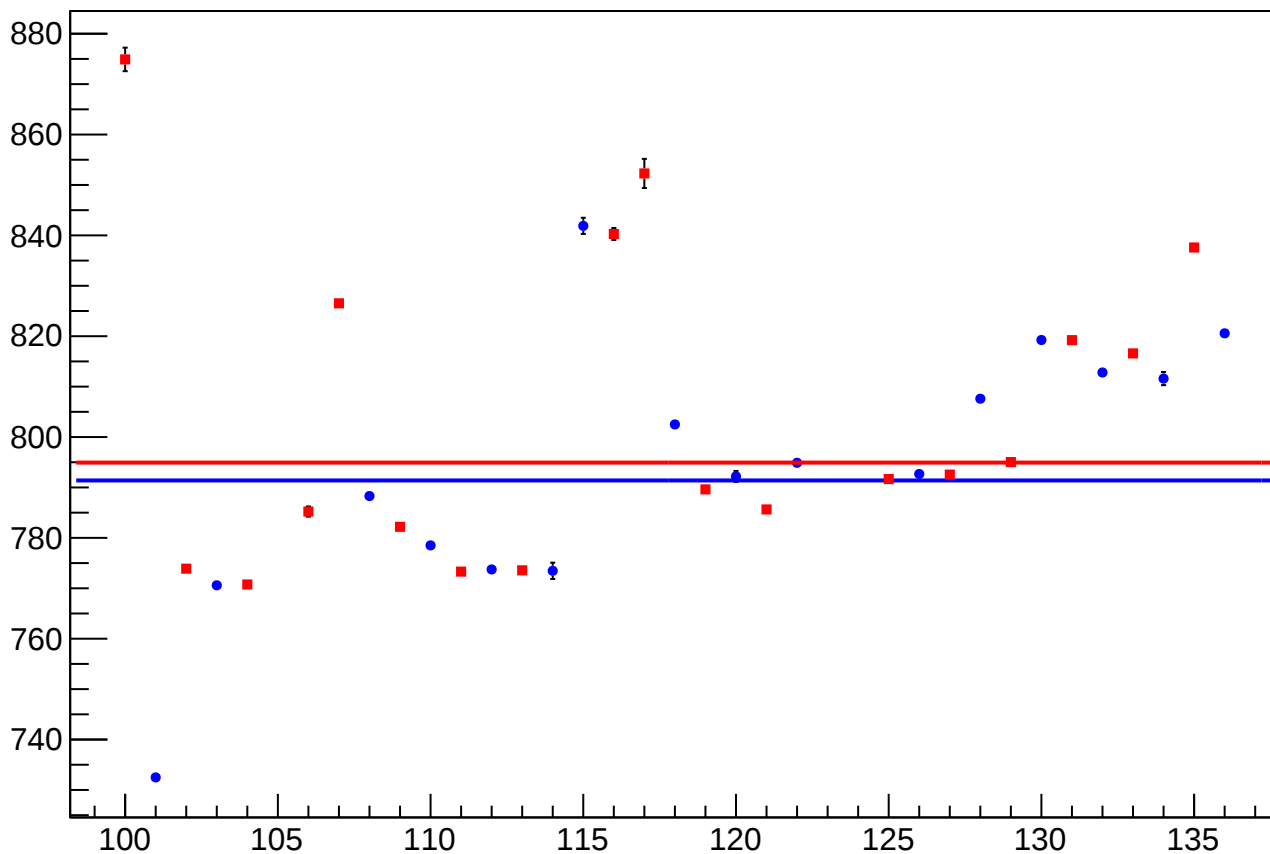
2162.311+/-307.312

$\chi^2/\text{NDF}$ : 8.9/15

-1975.275+/-303.602

$\chi^2/\text{NDF}$ : 12.5/17

# reg\_asym\_us\_avg\_rms vs Slug



Right In: 791.390+/-0.217  $\chi^2/\text{NDF}$ : 15008.3/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

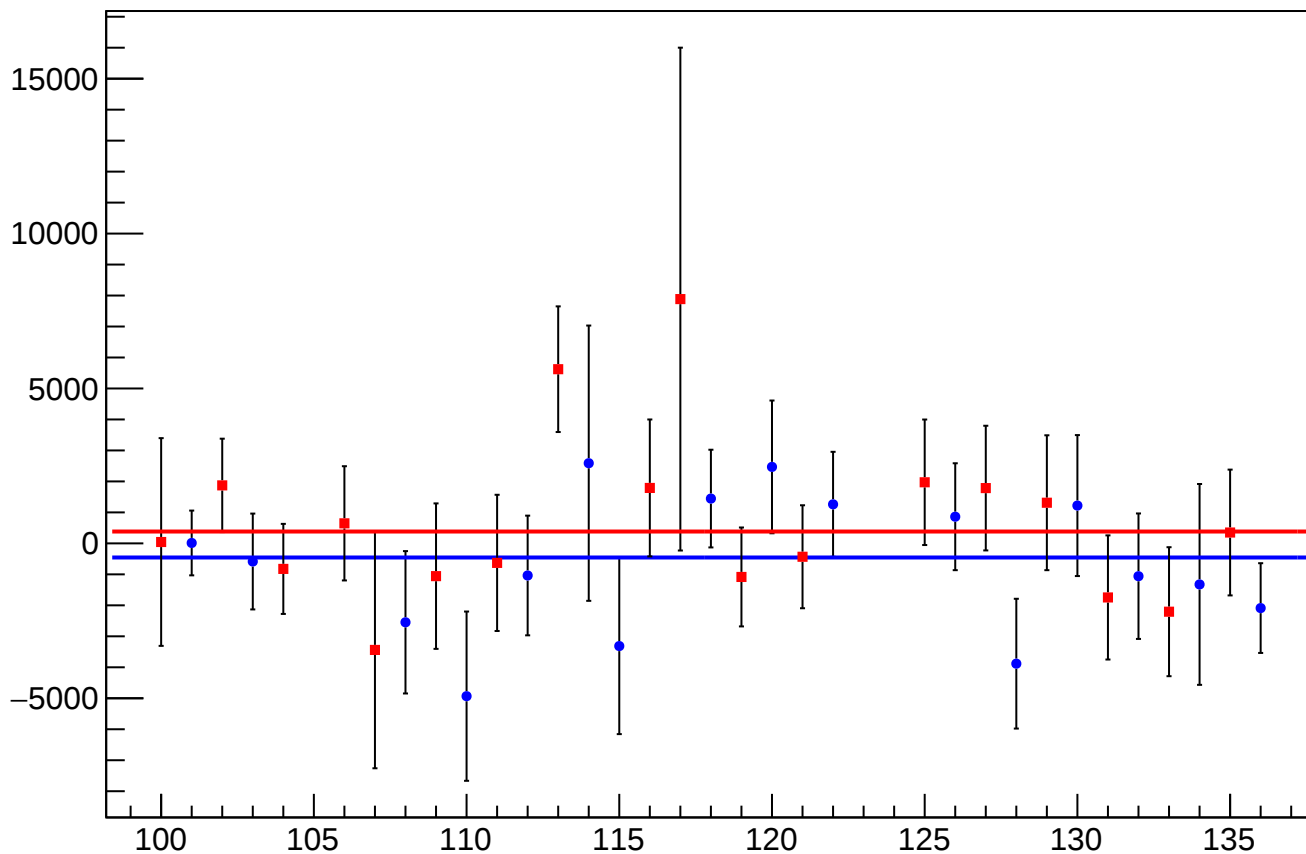
Right Out: 794.933+/-0.215  $\chi^2/\text{NDF}$ : 11500.2/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

791.390+/-0.217  $\chi^2/\text{NDF}$ : 15008.3/15

794.933+/-0.215  $\chi^2/\text{NDF}$ : 11500.2/17

# asym\_us\_avg\_correction\_mean vs Slug



Right In: -455.675+/-464.232  $\chi^2/\text{NDF}$ : 14.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

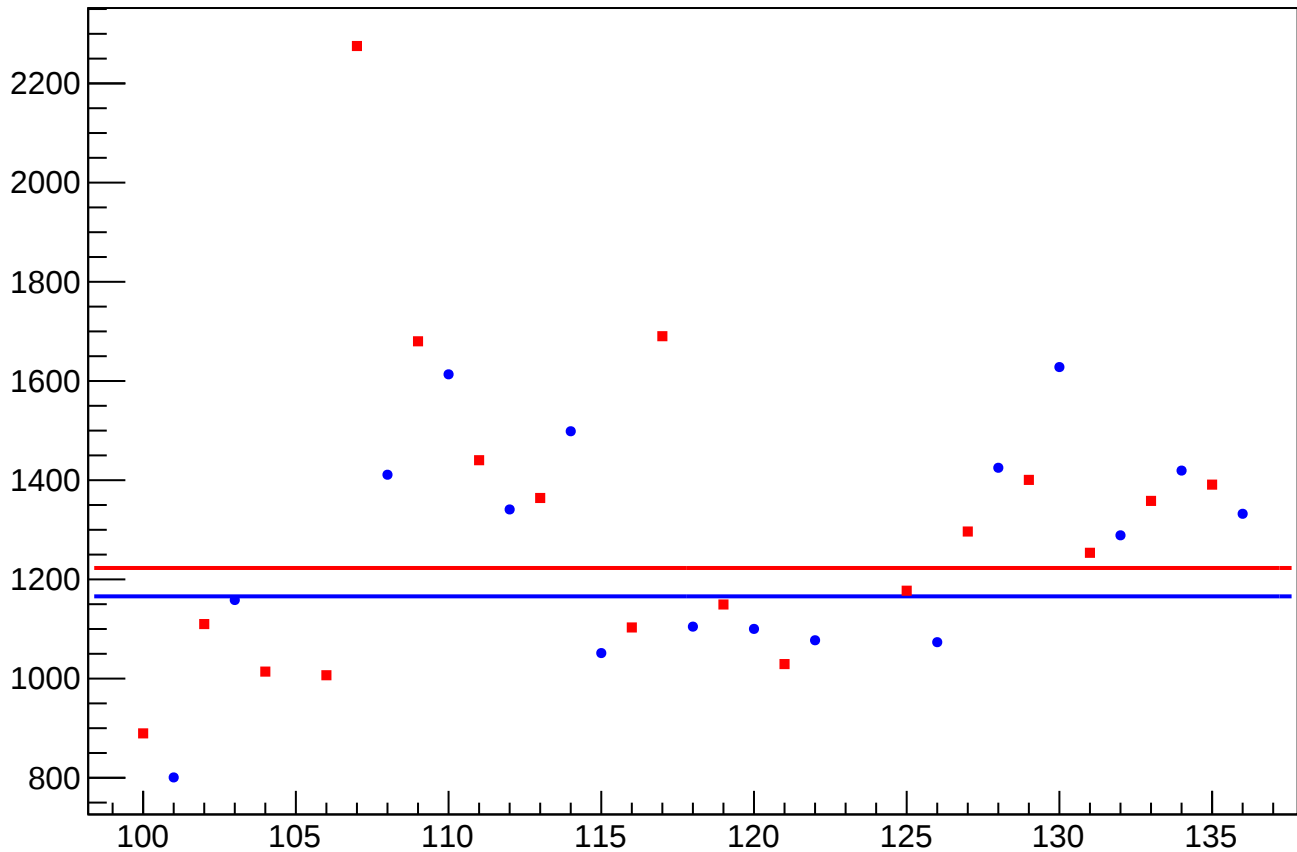
Right Out: 382.584+/-477.004  $\chi^2/\text{NDF}$ : 16.3/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-455.675+/-464.232  $\chi^2/\text{NDF}$ : 14.9/15

382.584+/-477.004  $\chi^2/\text{NDF}$ : 16.3/17

# asym\_us\_avg\_correction\_rms vs Slug



Right In: 1165.812 $\pm$ 0.328  $\chi^2$ /NDF: 526801.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

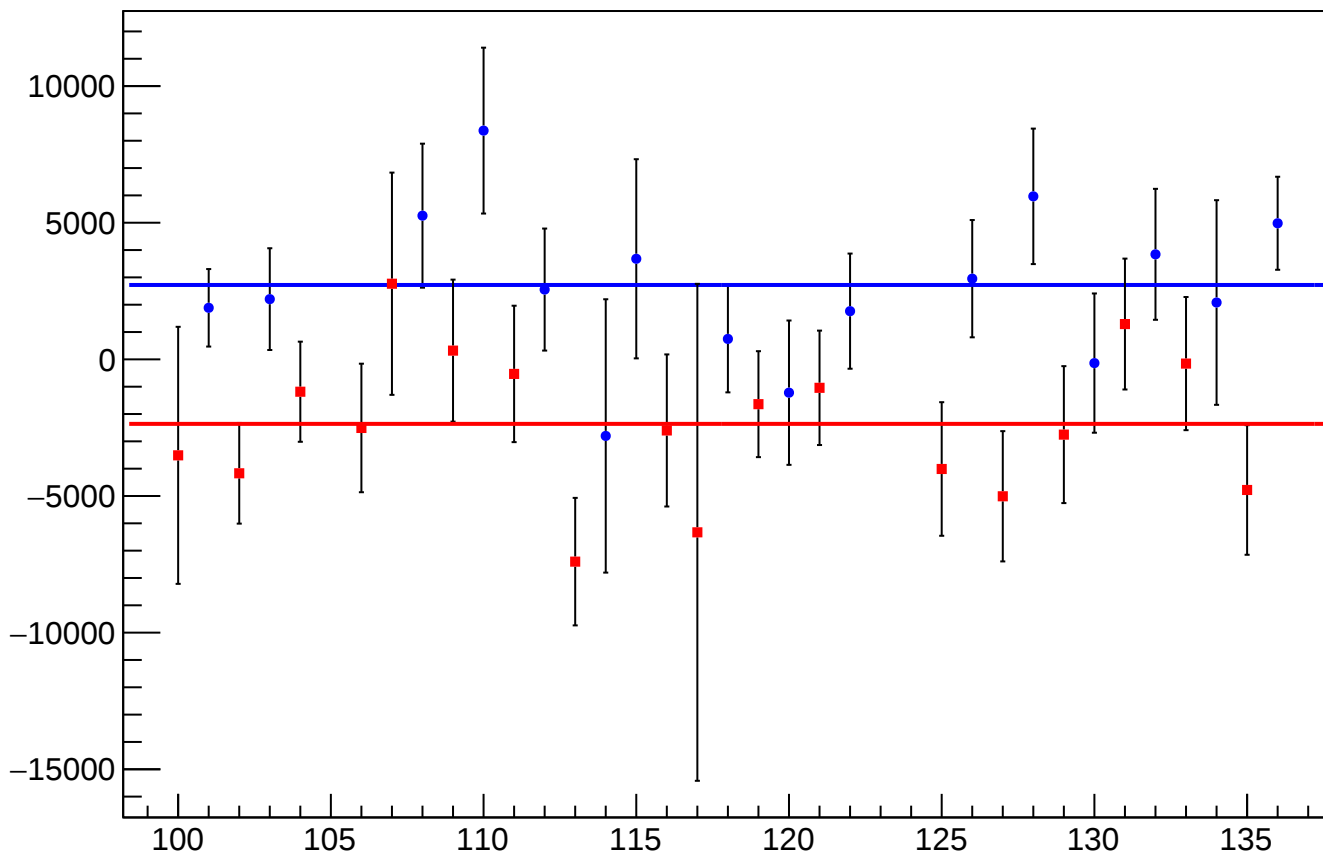
1165.812 $\pm$ 0.328  $\chi^2$ /NDF: 526801.3/15

Right Out: 1223.014 $\pm$ 0.337  $\chi^2$ /NDF: 440252.0/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1223.014 $\pm$ 0.337  $\chi^2$ /NDF: 440252.0/17

# asym\_us\_avg\_mean vs Slug



Right In: 2722.309+/-567.154  $\chi^2/\text{NDF}$ : 14.6/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

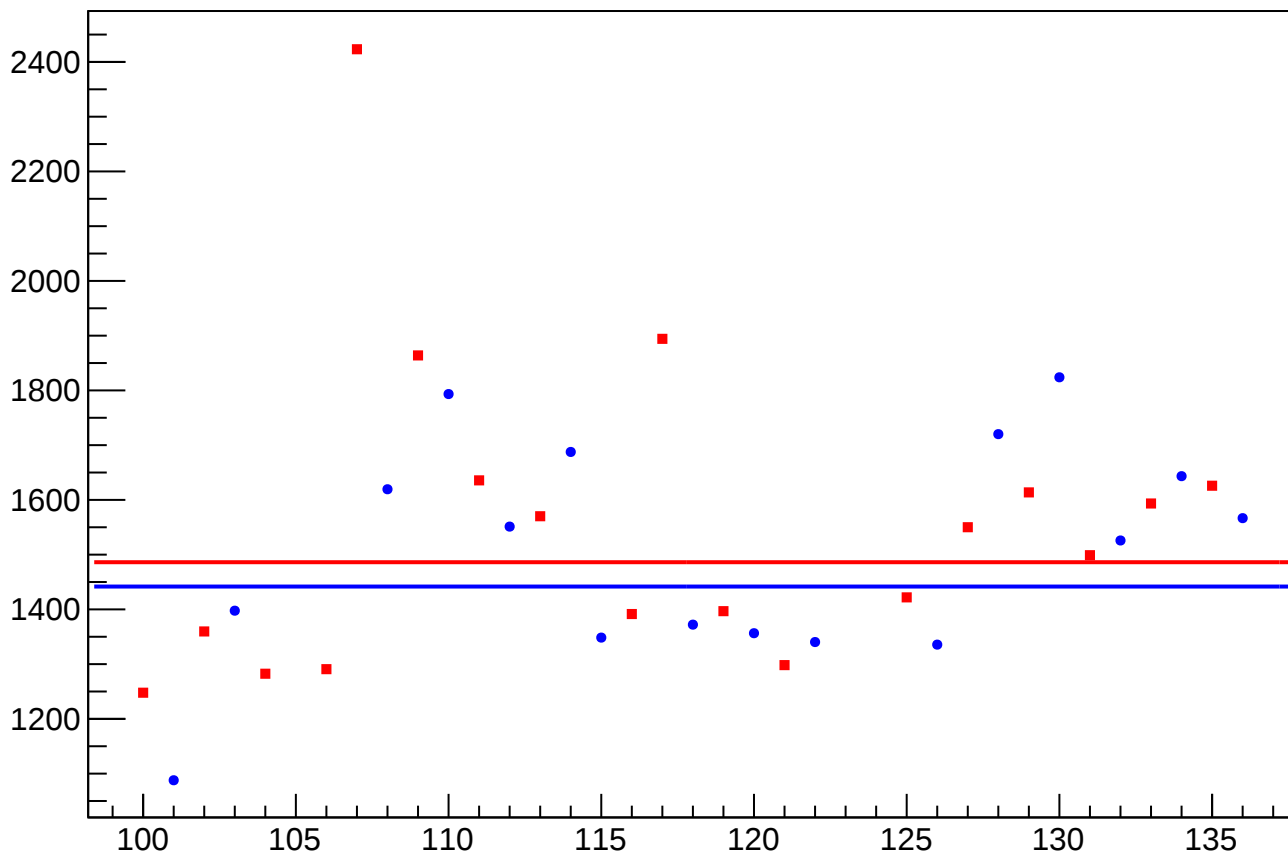
Right Out: -2360.685+/-574.426  $\chi^2/\text{NDF}$ : 15.9/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2722.309+/-567.154  $\chi^2/\text{NDF}$ : 14.6/15

-2360.685+/-574.426  $\chi^2/\text{NDF}$ : 15.9/17

# asym\_us\_avg\_rms vs Slug



Right In: 1441.720+/-0.401  $\chi^2/\text{NDF}$ : 275902.8/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

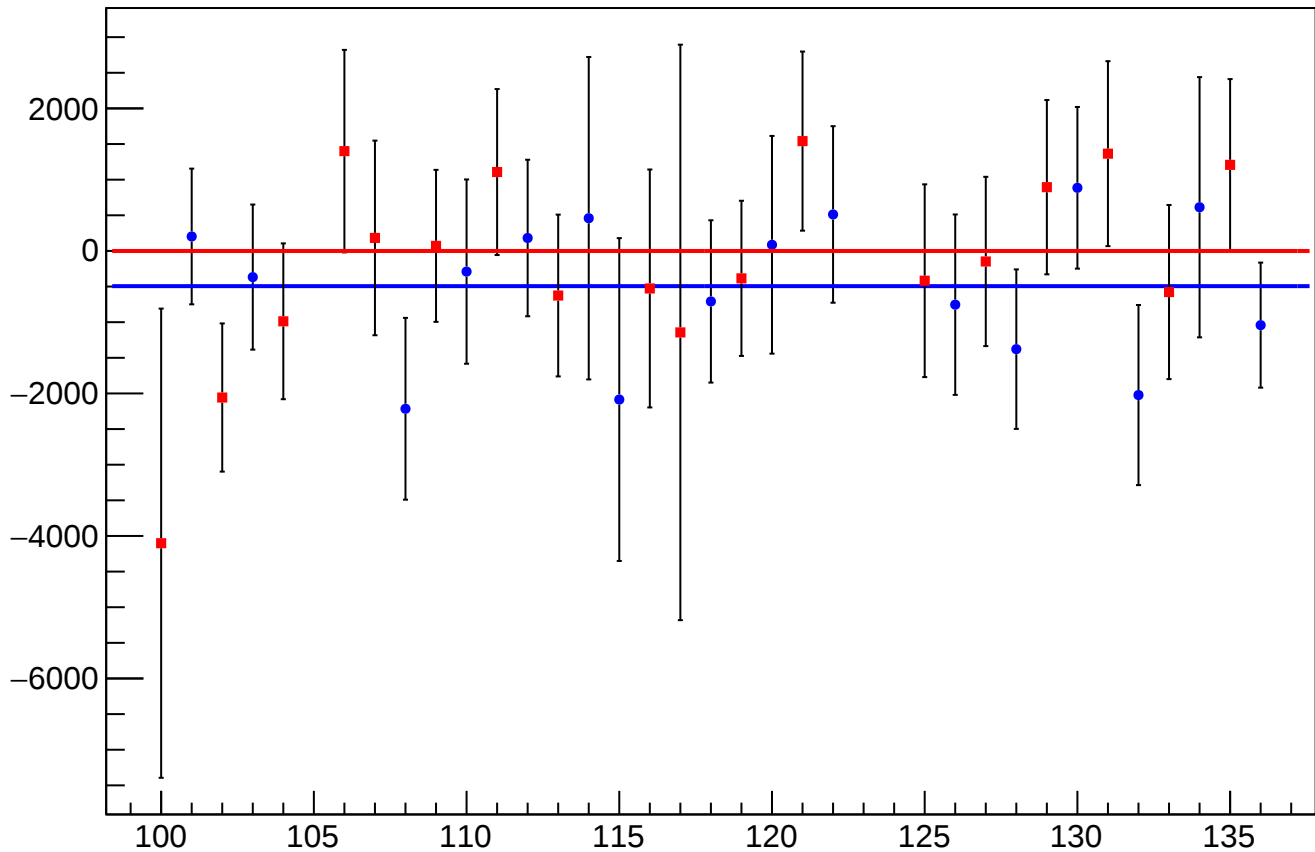
Right Out: 1486.167+/-0.406  $\chi^2/\text{NDF}$ : 256952.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1441.720+/-0.401  $\chi^2/\text{NDF}$ : 275902.8/15

1486.167+/-0.406  $\chi^2/\text{NDF}$ : 256952.1/17

# reg\_asym\_us\_dd\_mean vs Slug



Right In: -494.223+/-304.644  $\chi^2/\text{NDF}$ : 8.7/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

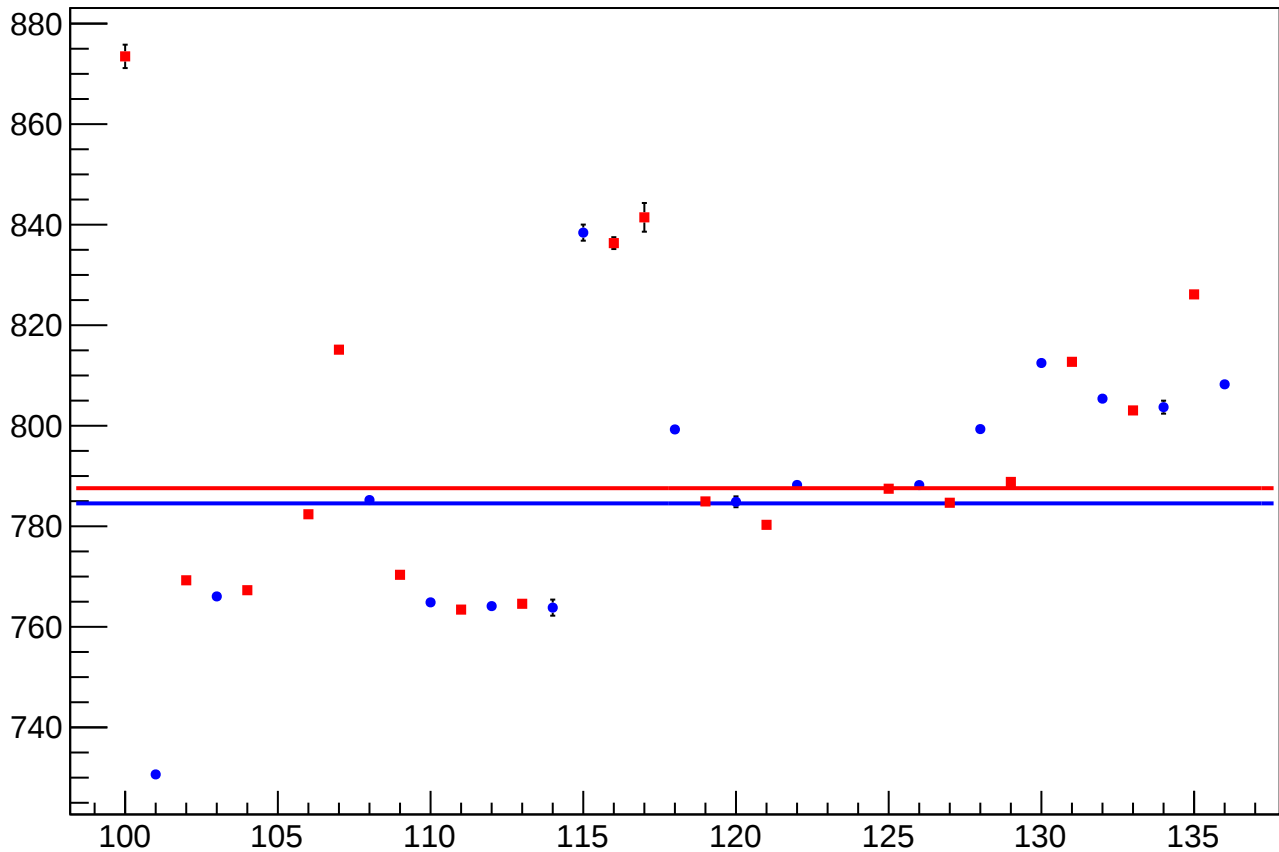
Right Out: -0.780+/-300.784  $\chi^2/\text{NDF}$ : 13.3/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-494.223+/-304.644  $\chi^2/\text{NDF}$ : 8.7/15

-0.780+/-300.784  $\chi^2/\text{NDF}$ : 13.3/17

# reg\_asym\_us\_dd\_rms vs Slug



Right In: 784.558 $\pm$ 0.215  $\chi^2$ /NDF: 13677.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

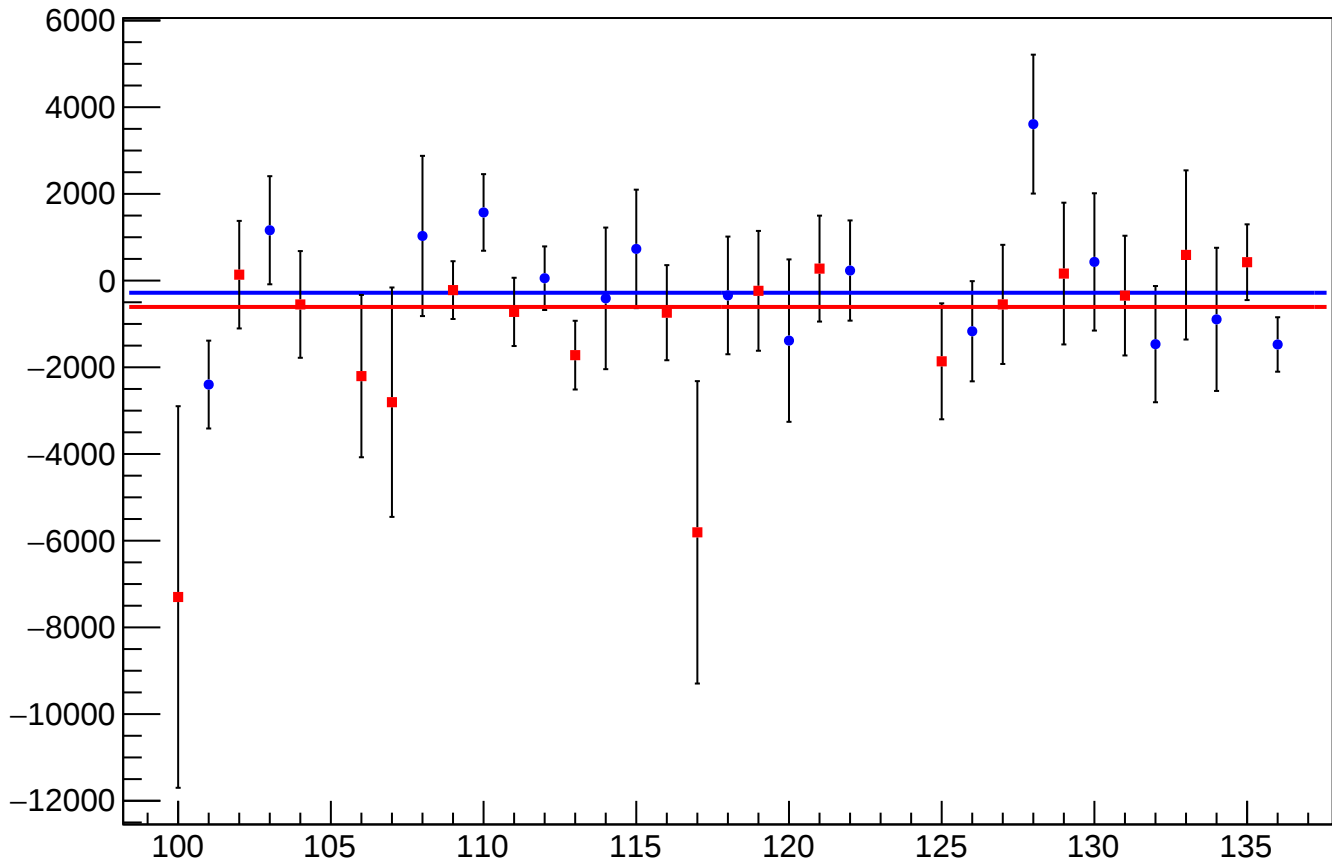
Right Out: 787.579 $\pm$ 0.213  $\chi^2$ /NDF: 10992.7/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

784.558 $\pm$ 0.215  $\chi^2$ /NDF: 13677.7/15

787.579 $\pm$ 0.213  $\chi^2$ /NDF: 10992.7/17

# asym\_us\_dd\_correction\_mean vs Slug



Right In: -280.632+/-282.501  $\chi^2$ /NDF: 23.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

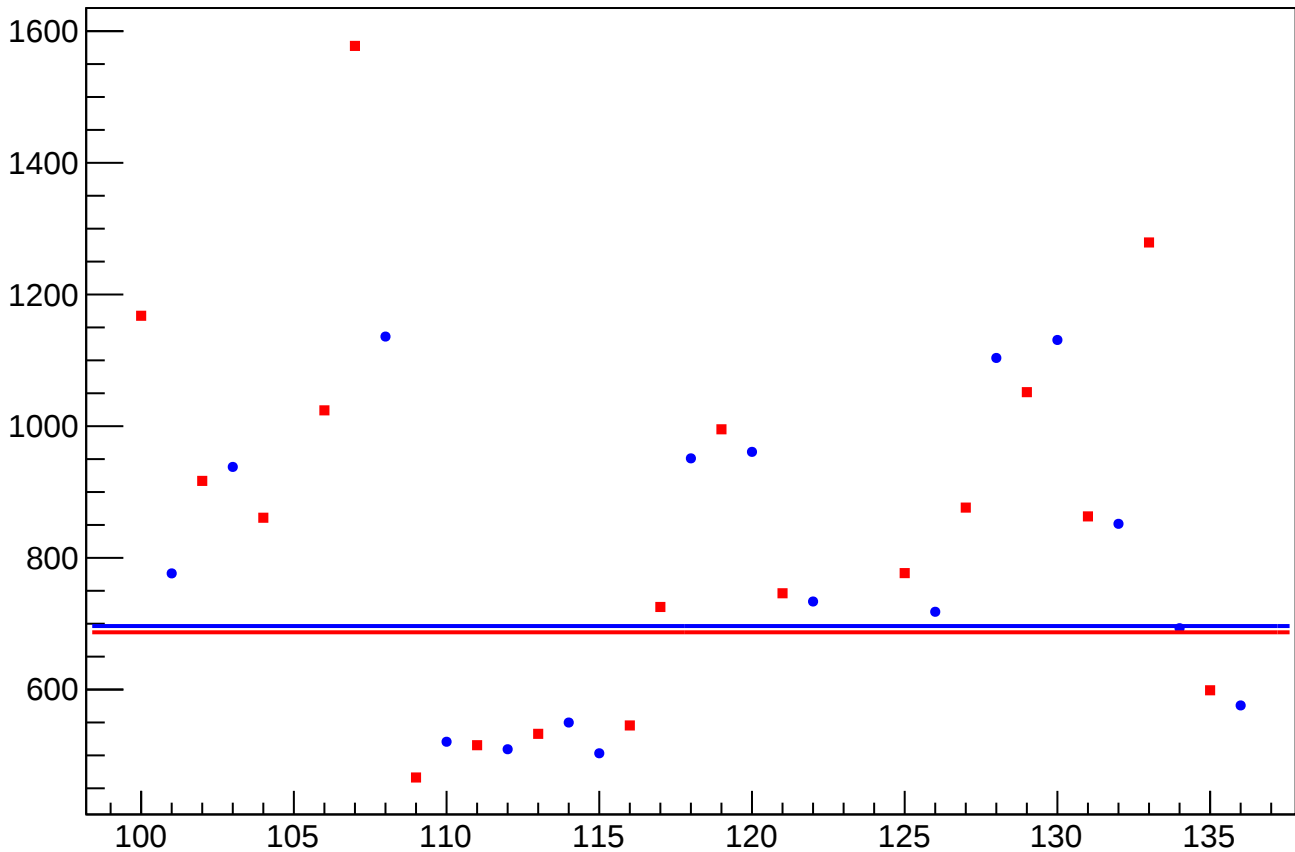
Right Out: -607.917+/-278.284  $\chi^2$ /NDF: 12.2/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-280.632+/-282.501  $\chi^2$ /NDF: 23.1/15

-607.917+/-278.284  $\chi^2$ /NDF: 12.2/17

# asym\_us\_dd\_correction\_rms vs Slug



Right In: 696.462 $\pm$ 0.200  $\chi^2$ /NDF: 959490.0/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

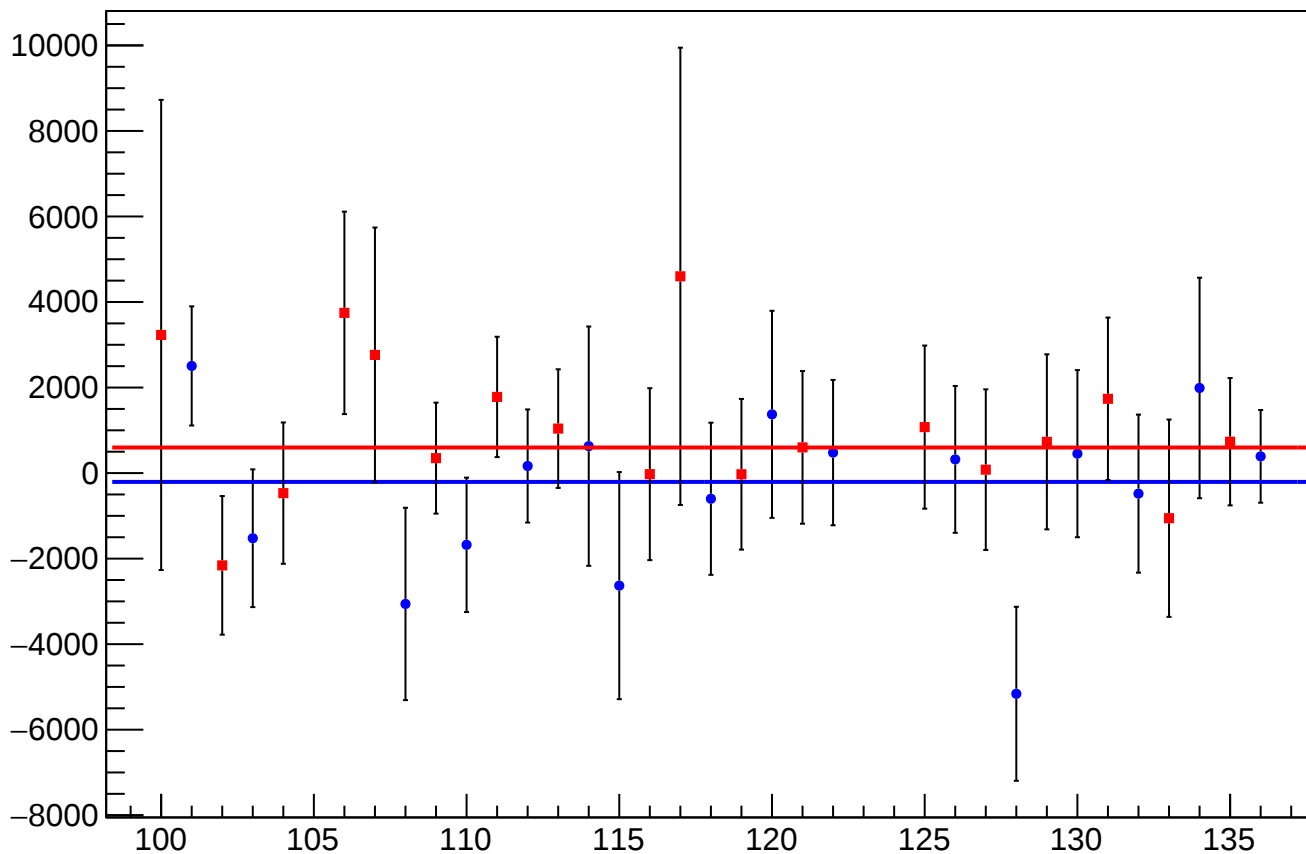
Right Out: 686.953 $\pm$ 0.197  $\chi^2$ /NDF: 1334870.3/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

696.462 $\pm$ 0.200  $\chi^2$ /NDF: 959490.0/15

686.953 $\pm$ 0.197  $\chi^2$ /NDF: 1334870.3/17

# asym\_us\_dd\_mean vs Slug



Right In: -206.385+/-433.774  $\chi^2$ /NDF: 15.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

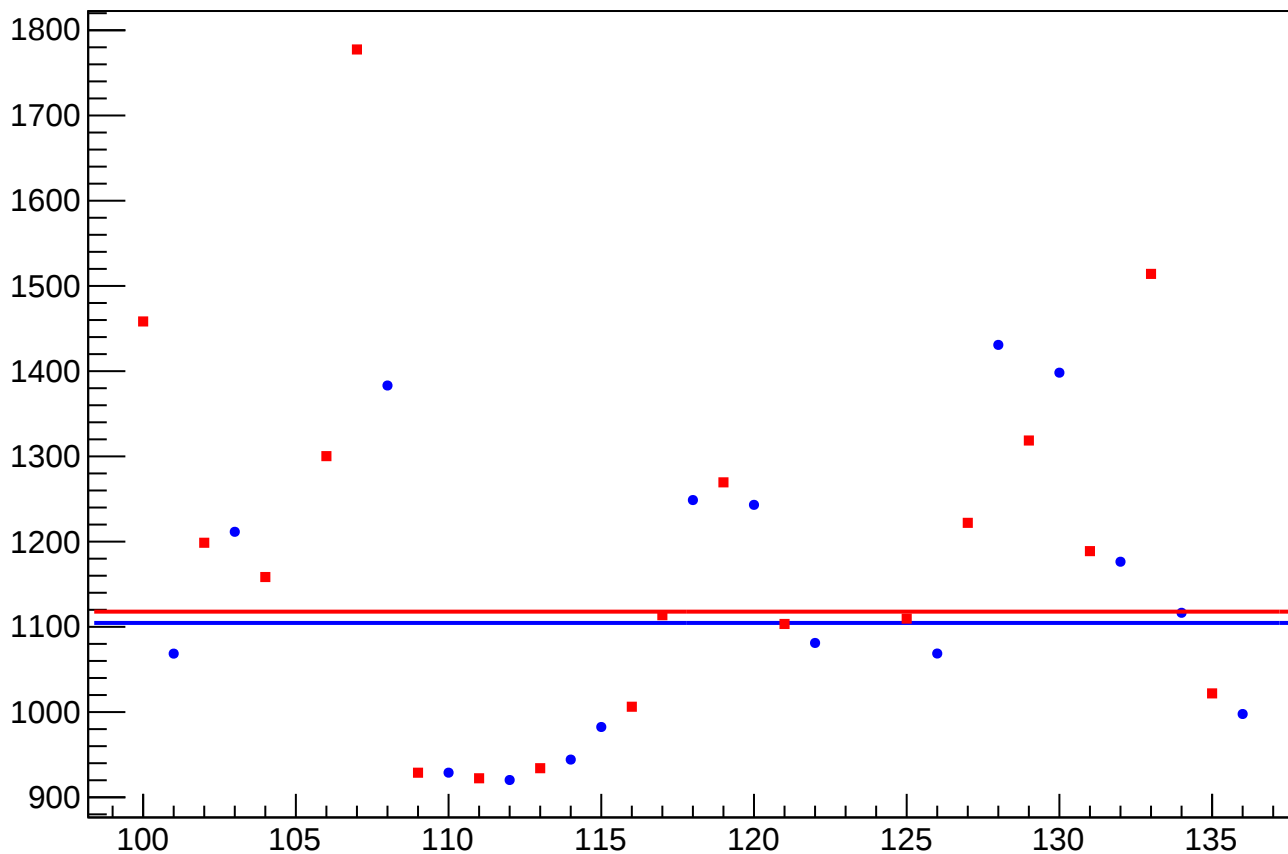
Right Out: 597.953+/-433.473  $\chi^2$ /NDF: 8.5/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-206.385+/-433.774  $\chi^2$ /NDF: 15.8/15

597.953+/-433.473  $\chi^2$ /NDF: 8.5/17

# asym\_us\_dd\_rms vs Slug



Right In: 1104.596 $\pm$ 0.307  $\chi^2$ /NDF: 255488.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

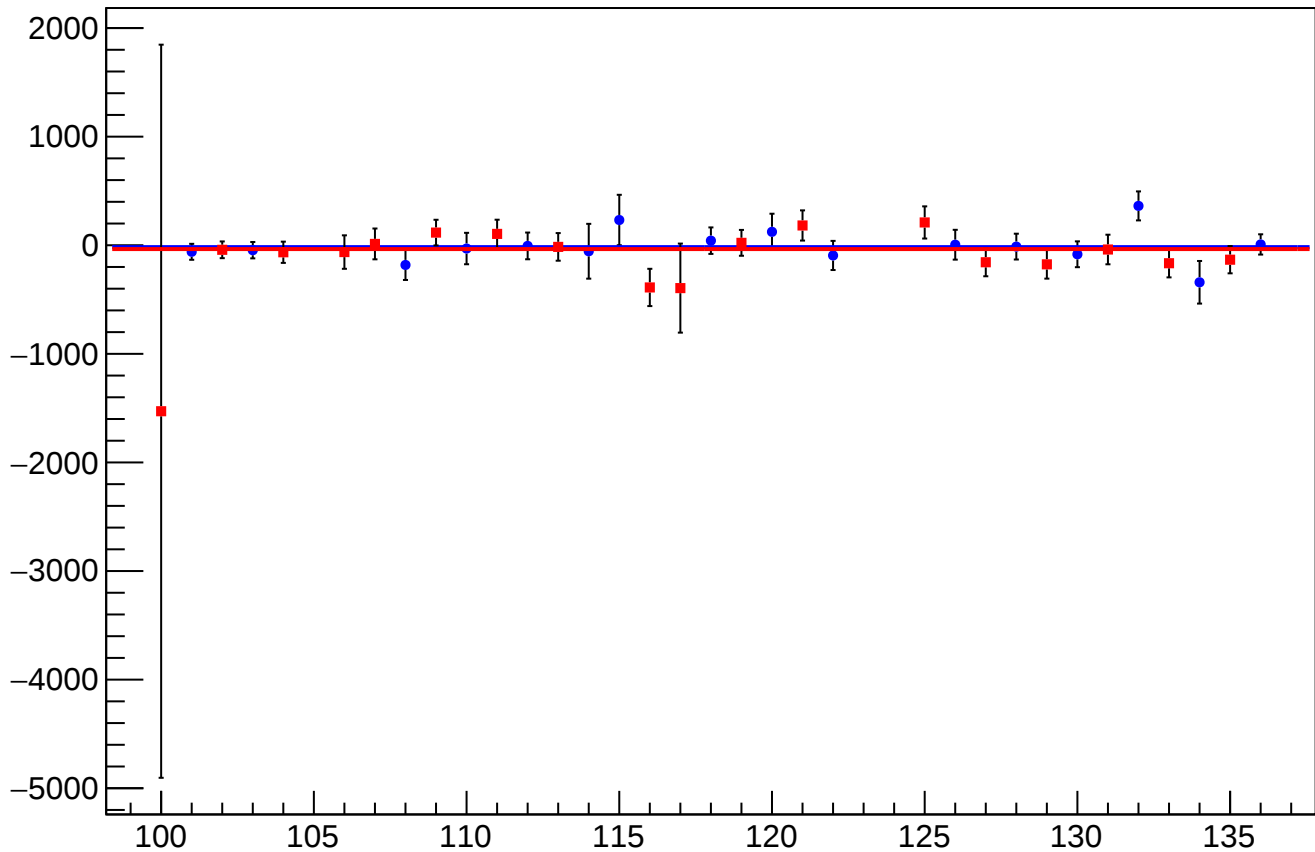
Right Out: 1117.837 $\pm$ 0.307  $\chi^2$ /NDF: 356533.1/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1104.596 $\pm$ 0.307  $\chi^2$ /NDF: 255488.3/15

1117.837 $\pm$ 0.307  $\chi^2$ /NDF: 356533.1/17

# reg\_asym\_ds\_avg\_mean vs Slug



Right In: -17.236+/-29.988  $\chi^2$ /NDF: 15.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

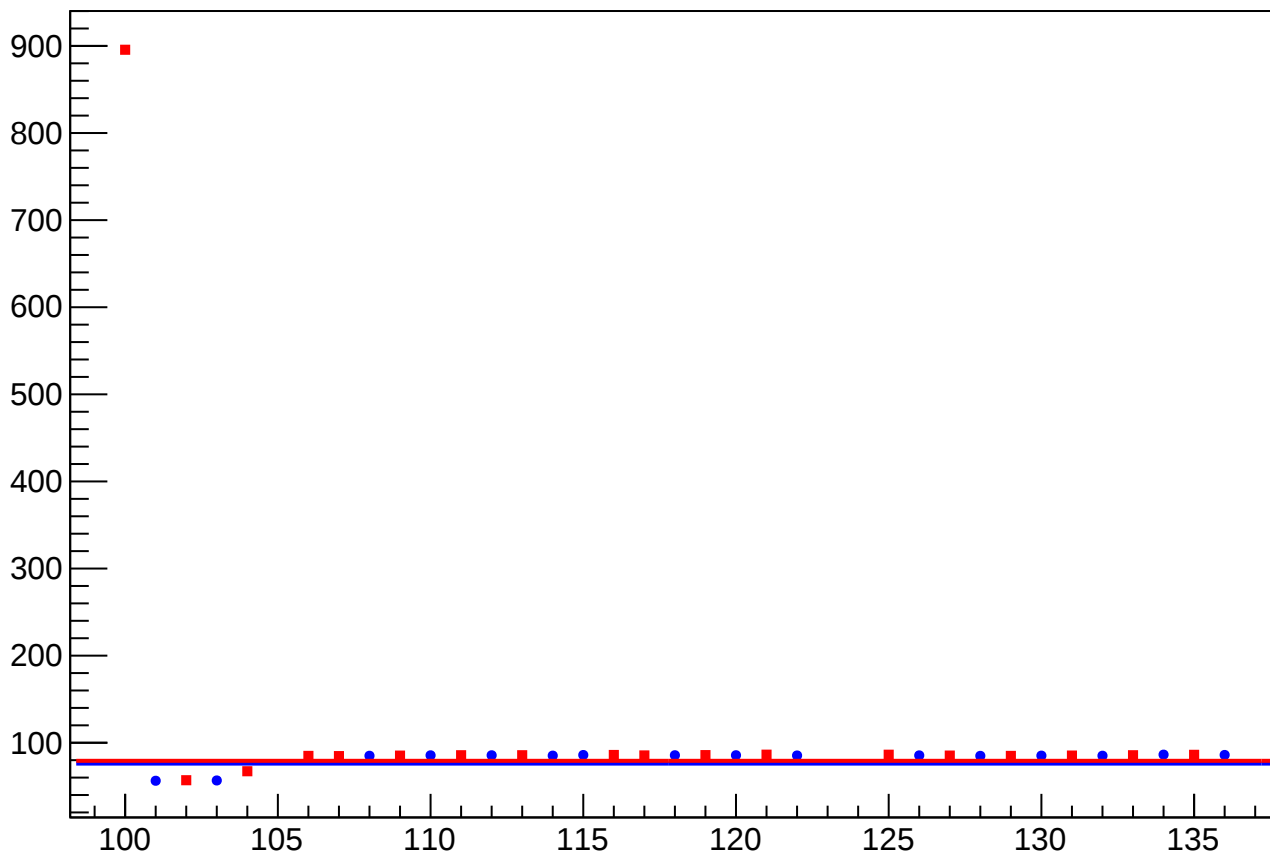
Right Out: -35.168+/-30.729  $\chi^2$ /NDF: 17.3/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-17.236+/-29.988  $\chi^2$ /NDF: 15.6/15

-35.168+/-30.729  $\chi^2$ /NDF: 17.3/17

# reg\_asym\_ds\_avg\_rms vs Slug



Right In: 76.079+/-0.021  $\chi^2/\text{NDF}$ : 409170.8/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

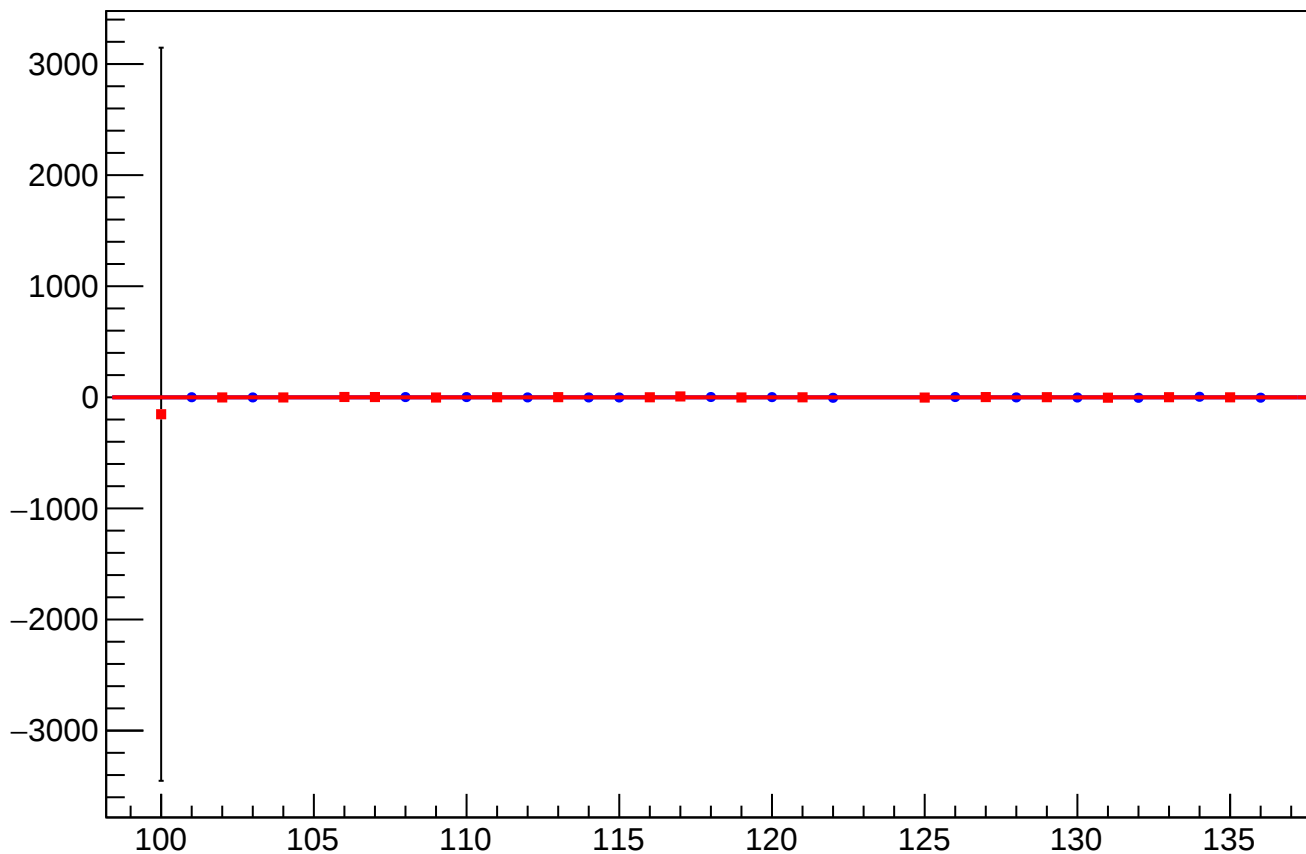
Right Out: 79.269+/-0.022  $\chi^2/\text{NDF}$ : 376853.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

76.079+/-0.021  $\chi^2/\text{NDF}$ : 409170.8/15

79.269+/-0.022  $\chi^2/\text{NDF}$ : 376853.1/17

# asym\_ds\_avg\_correction\_mean vs Slug



Right In: -0.281+/-0.501  $\chi^2/\text{NDF}$ : 21.2/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

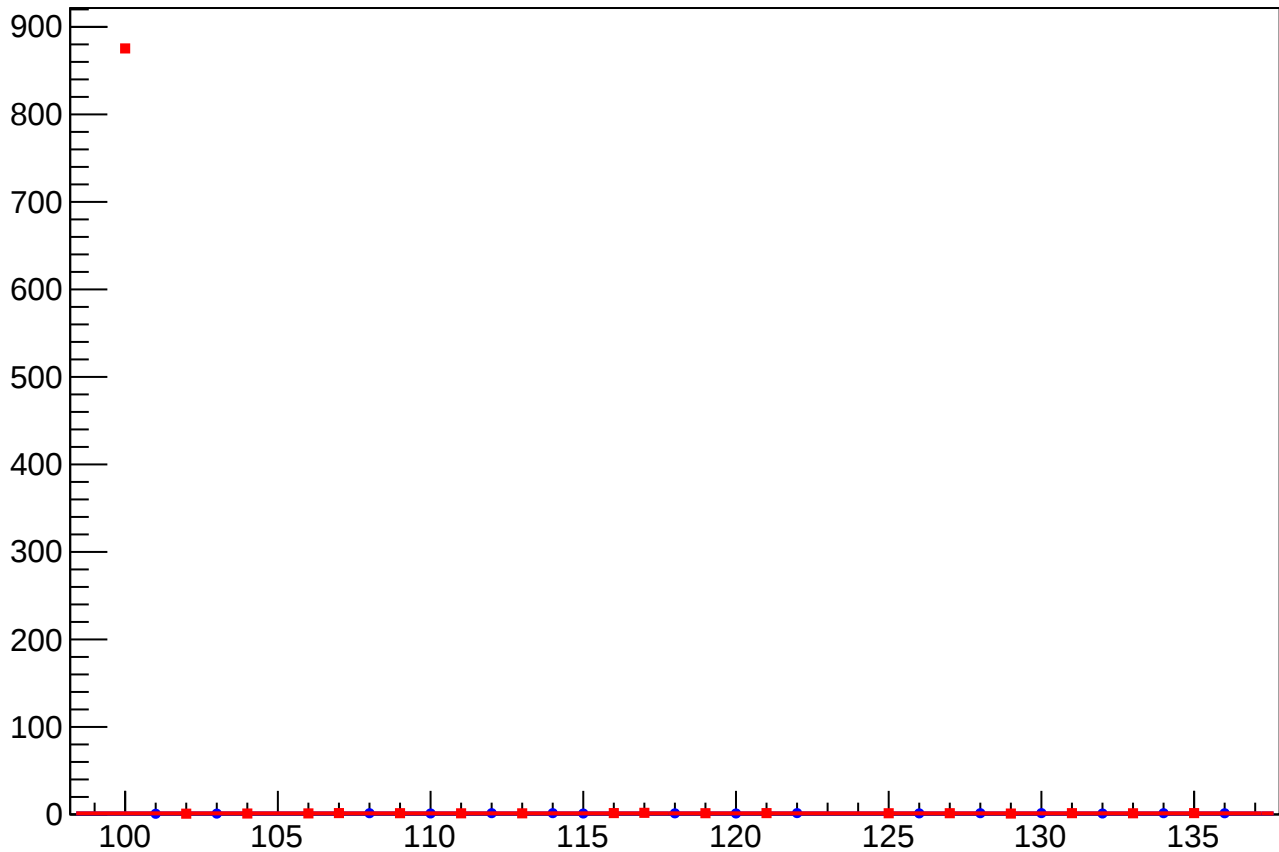
Right Out: -0.044+/-0.531  $\chi^2/\text{NDF}$ : 9.8/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.281+/-0.501  $\chi^2/\text{NDF}$ : 21.2/15

-0.044+/-0.531  $\chi^2/\text{NDF}$ : 9.8/17

# asym\_ds\_avg\_correction\_rms vs Slug



Right In: 1.152+/-0.000  $\chi^2/\text{NDF}$ : 514348.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

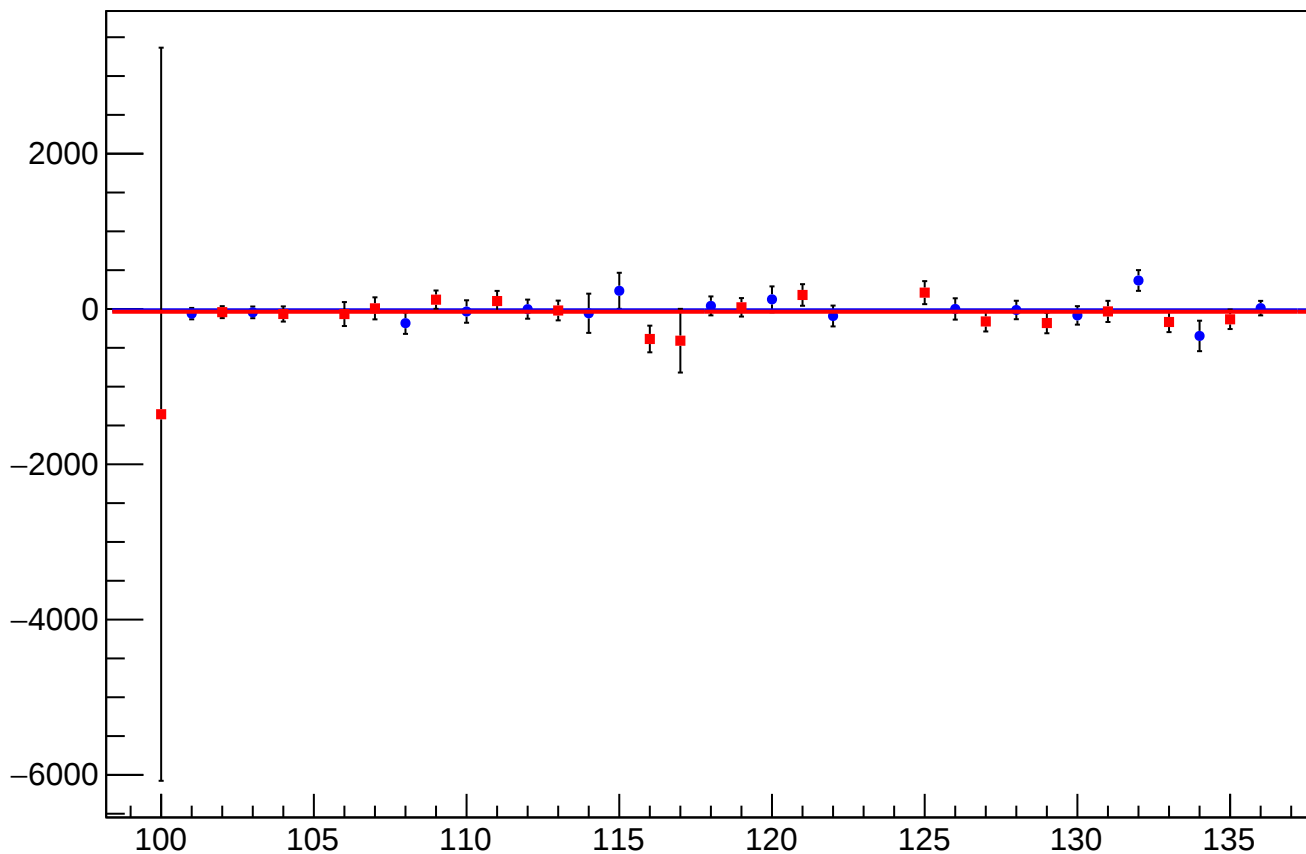
Right Out: 1.259+/-0.000  $\chi^2/\text{NDF}$ : 508259.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.152+/-0.000  $\chi^2/\text{NDF}$ : 514348.9/15

1.259+/-0.000  $\chi^2/\text{NDF}$ : 508259.1/17

# asym\_ds\_avg\_mean vs Slug



Right In: -16.311+/-29.996  $\chi^2$ /NDF: 15.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

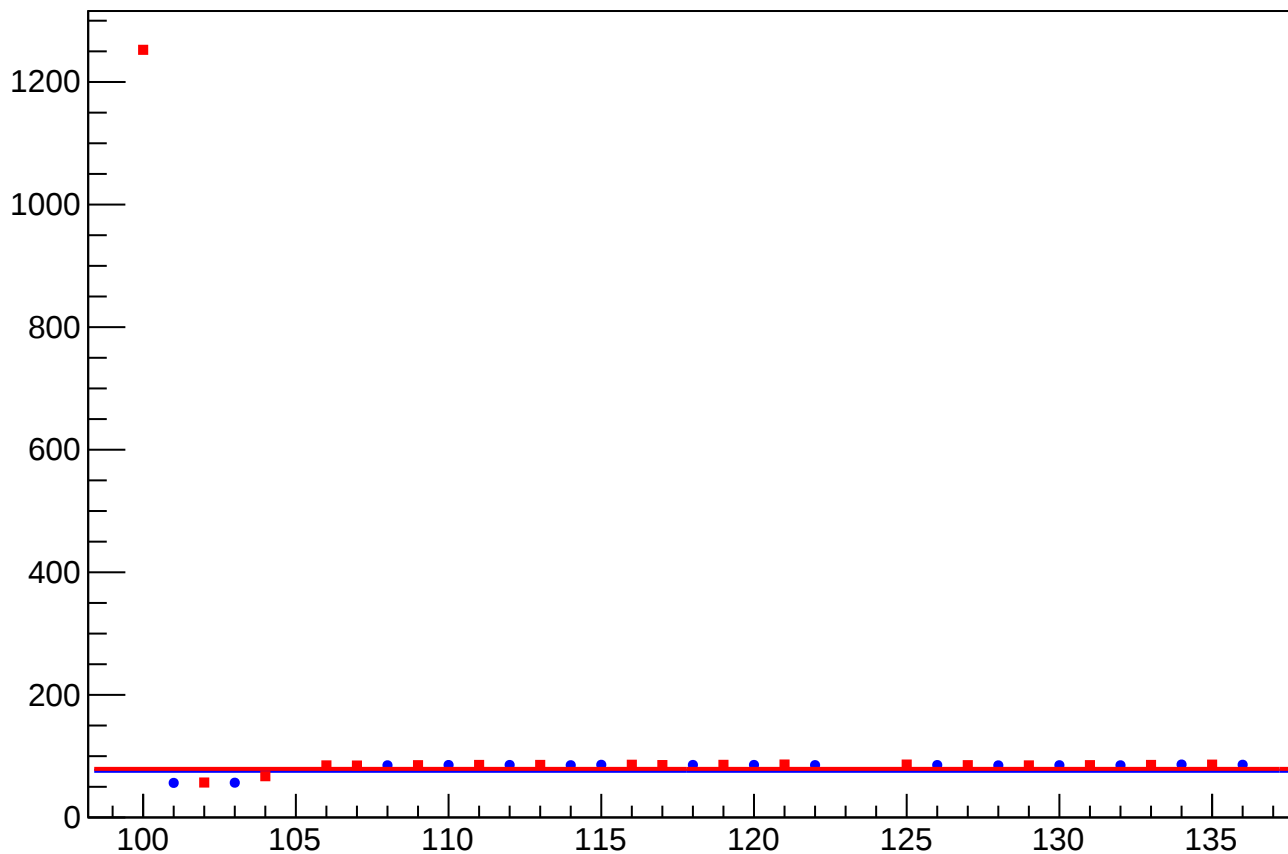
Right Out: -35.484+/-30.738  $\chi^2$ /NDF: 17.4/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-16.311+/-29.996  $\chi^2$ /NDF: 15.9/15

-35.484+/-30.738  $\chi^2$ /NDF: 17.4/17

# asym\_ds\_avg\_rms vs Slug



Right In: 76.099 $\pm$ 0.021  $\chi^2$ /NDF: 409200.9/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

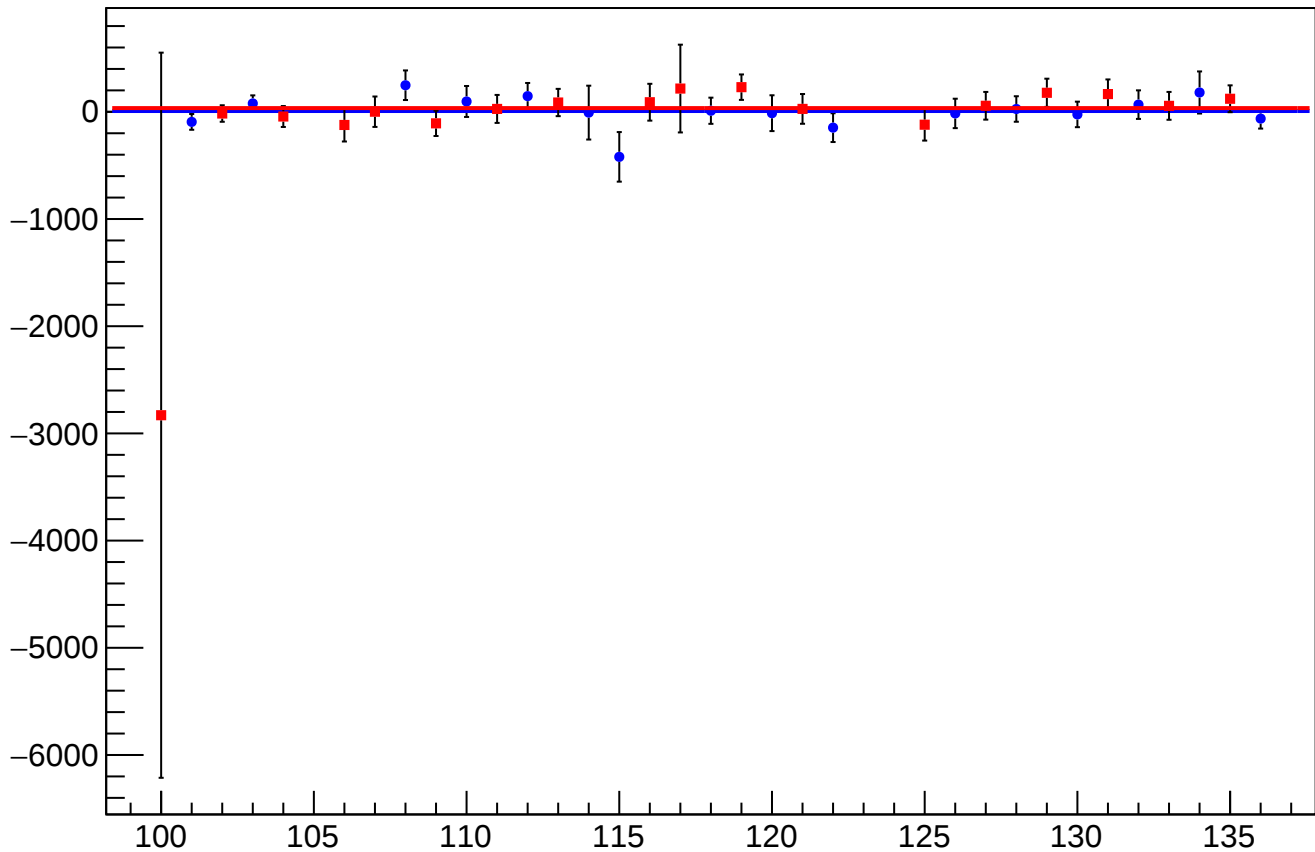
Right Out: 79.273 $\pm$ 0.022  $\chi^2$ /NDF: 383371.0/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

76.099 $\pm$ 0.021  $\chi^2$ /NDF: 409200.9/15

79.273 $\pm$ 0.022  $\chi^2$ /NDF: 383371.0/17

# reg\_asym\_ds\_dd\_mean vs Slug



Right In: 7.460+/-29.969  $\chi^2$ /NDF: 13.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

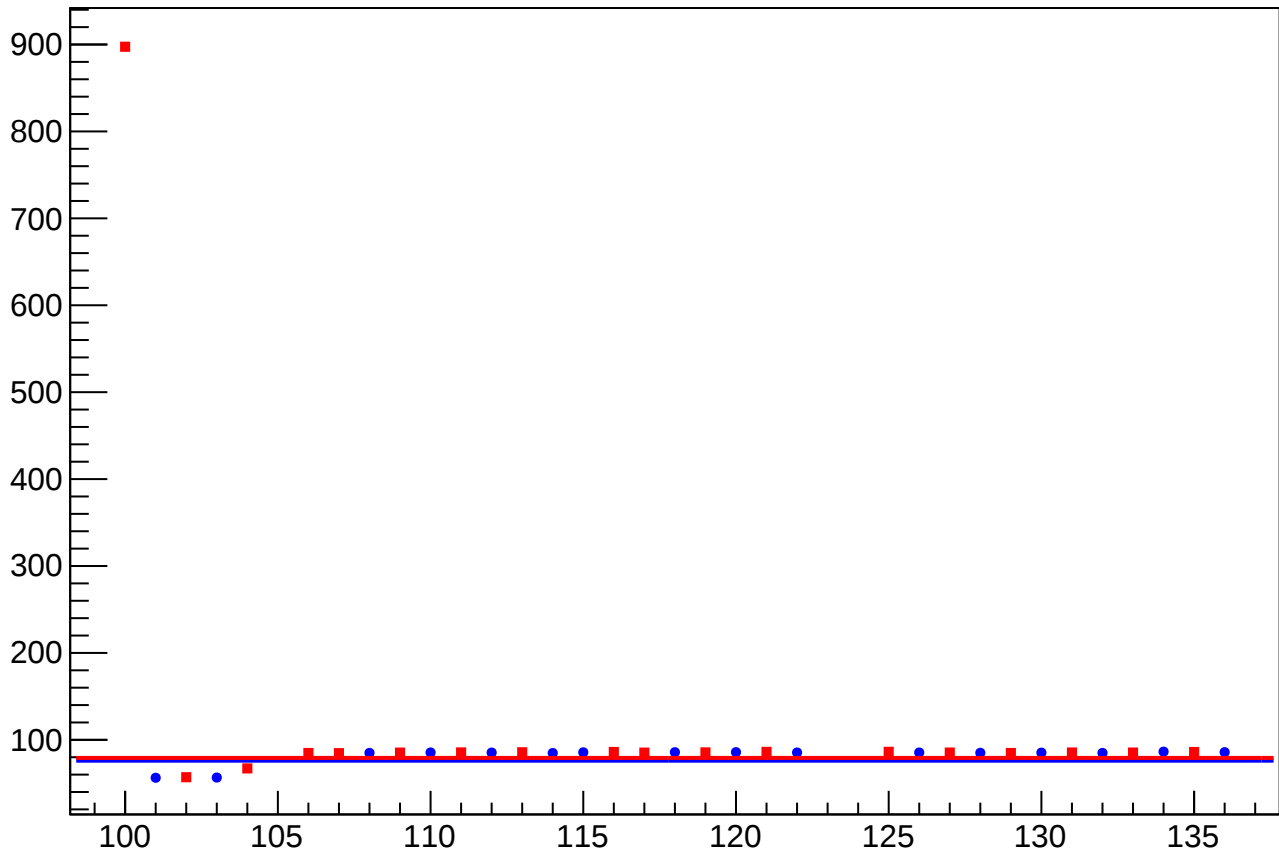
Right Out: 34.674+/-30.711  $\chi^2$ /NDF: 11.3/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

7.460+/-29.969  $\chi^2$ /NDF: 13.9/15

34.674+/-30.711  $\chi^2$ /NDF: 11.3/17

# reg\_asym\_ds\_dd\_rms vs Slug



Right In: 76.032 $\pm$ 0.021  $\chi^2$ /NDF: 408917.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

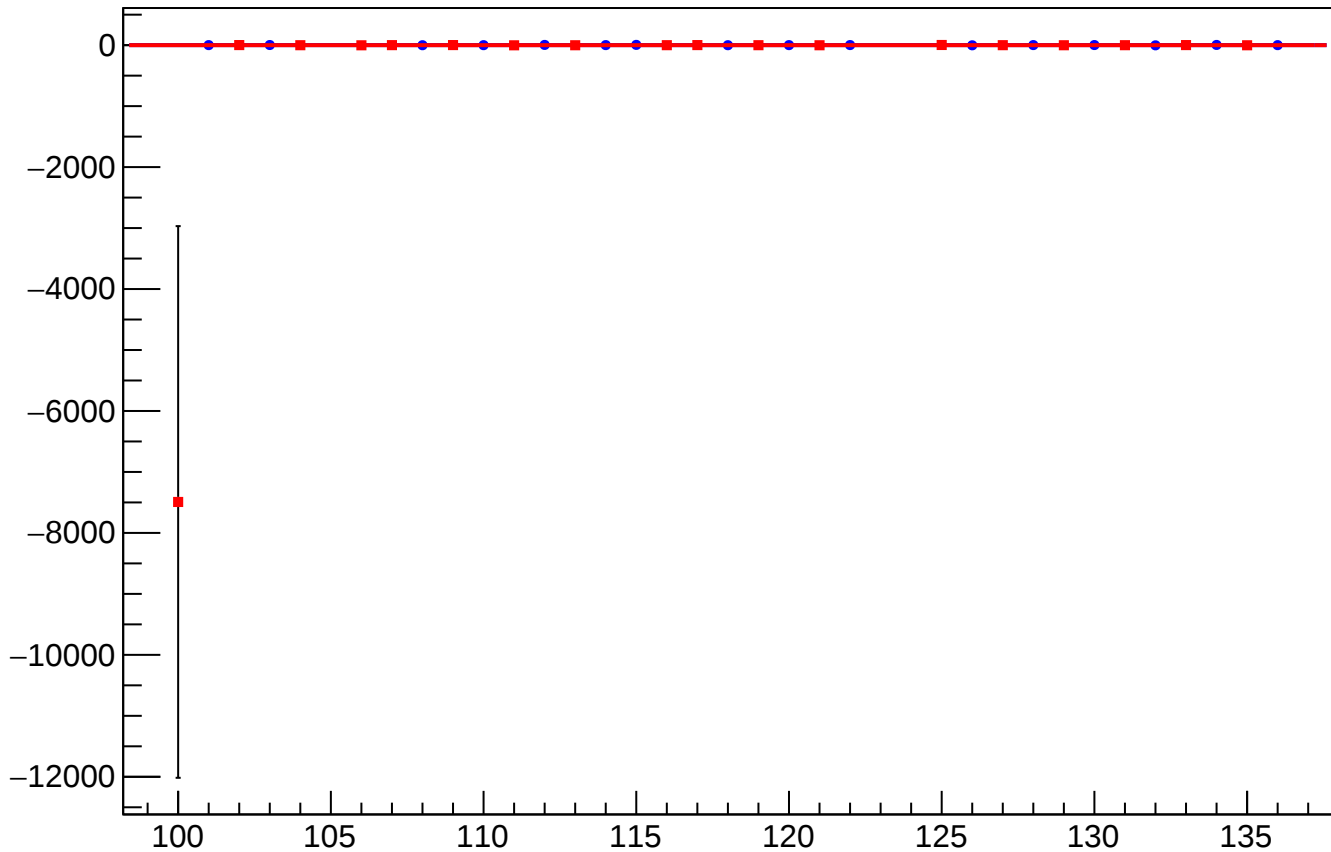
Right Out: 79.223 $\pm$ 0.022  $\chi^2$ /NDF: 376758.5/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

76.032 $\pm$ 0.021  $\chi^2$ /NDF: 408917.7/15

79.223 $\pm$ 0.022  $\chi^2$ /NDF: 376758.5/17

# asym\_ds\_dd\_correction\_mean vs Slug



Right In: 0.911+/-0.532  $\chi^2/\text{NDF}$ : 12.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

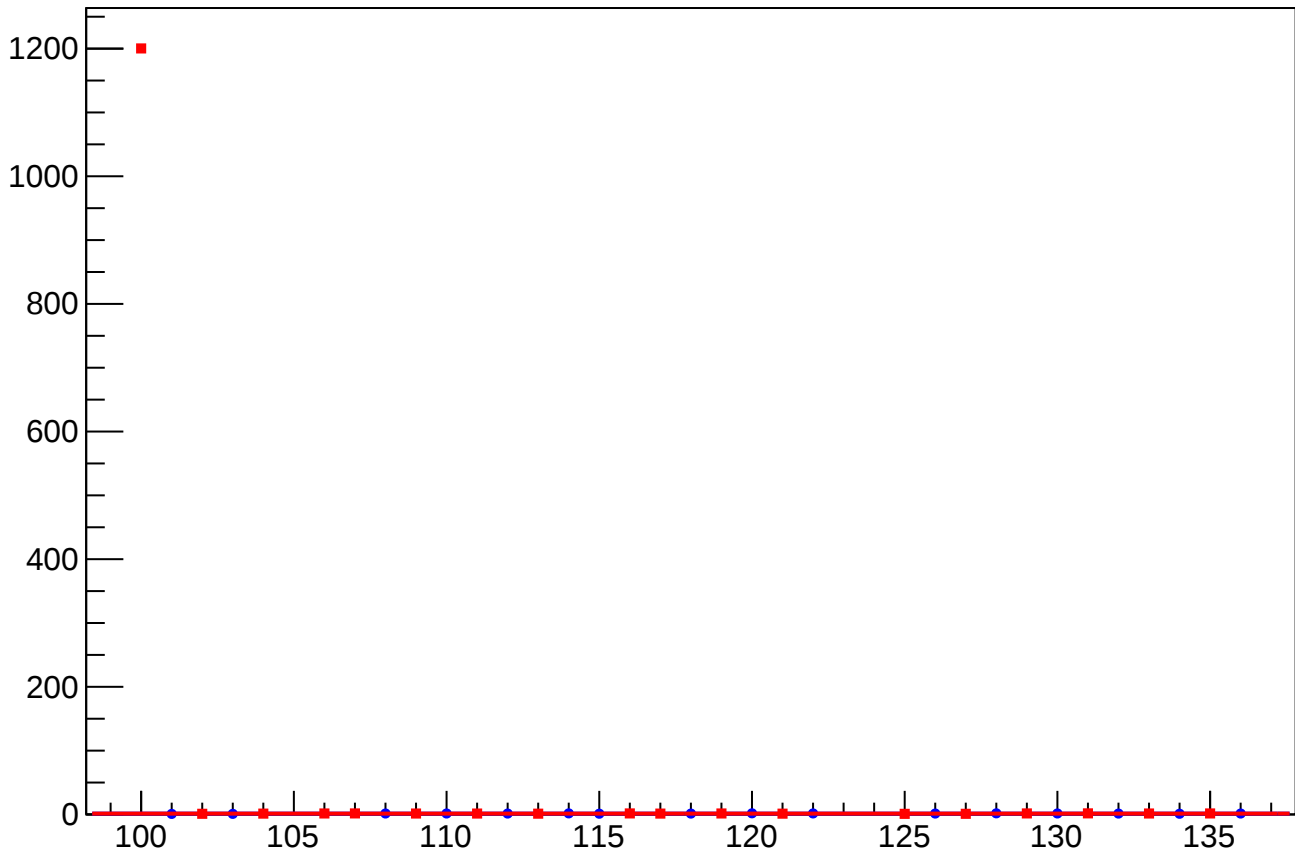
Right Out: -0.179+/-0.553  $\chi^2/\text{NDF}$ : 10.4/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.911+/-0.532  $\chi^2/\text{NDF}$ : 12.0/15

-0.179+/-0.553  $\chi^2/\text{NDF}$ : 10.4/17

# asym\_ds\_dd\_correction\_rms vs Slug



Right In: 1.238+/-0.000  $\chi^2/\text{NDF}$ : 657848.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

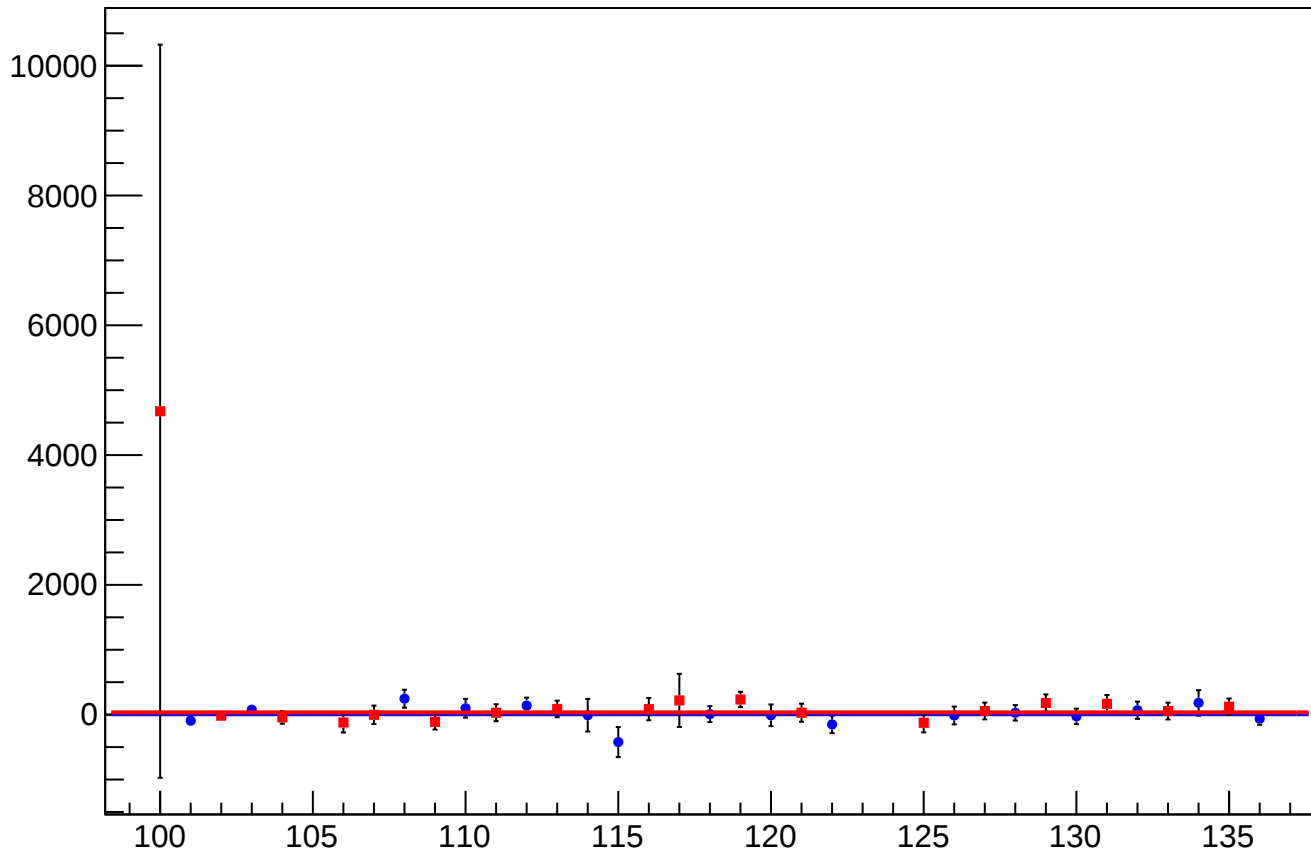
Right Out: 1.314+/-0.000  $\chi^2/\text{NDF}$ : 517549.8/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.238+/-0.000  $\chi^2/\text{NDF}$ : 657848.9/15

1.314+/-0.000  $\chi^2/\text{NDF}$ : 517549.8/17

# asym\_ds\_dd\_mean vs Slug



Right In: 6.781+/-29.977  $\chi^2$ /NDF: 13.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

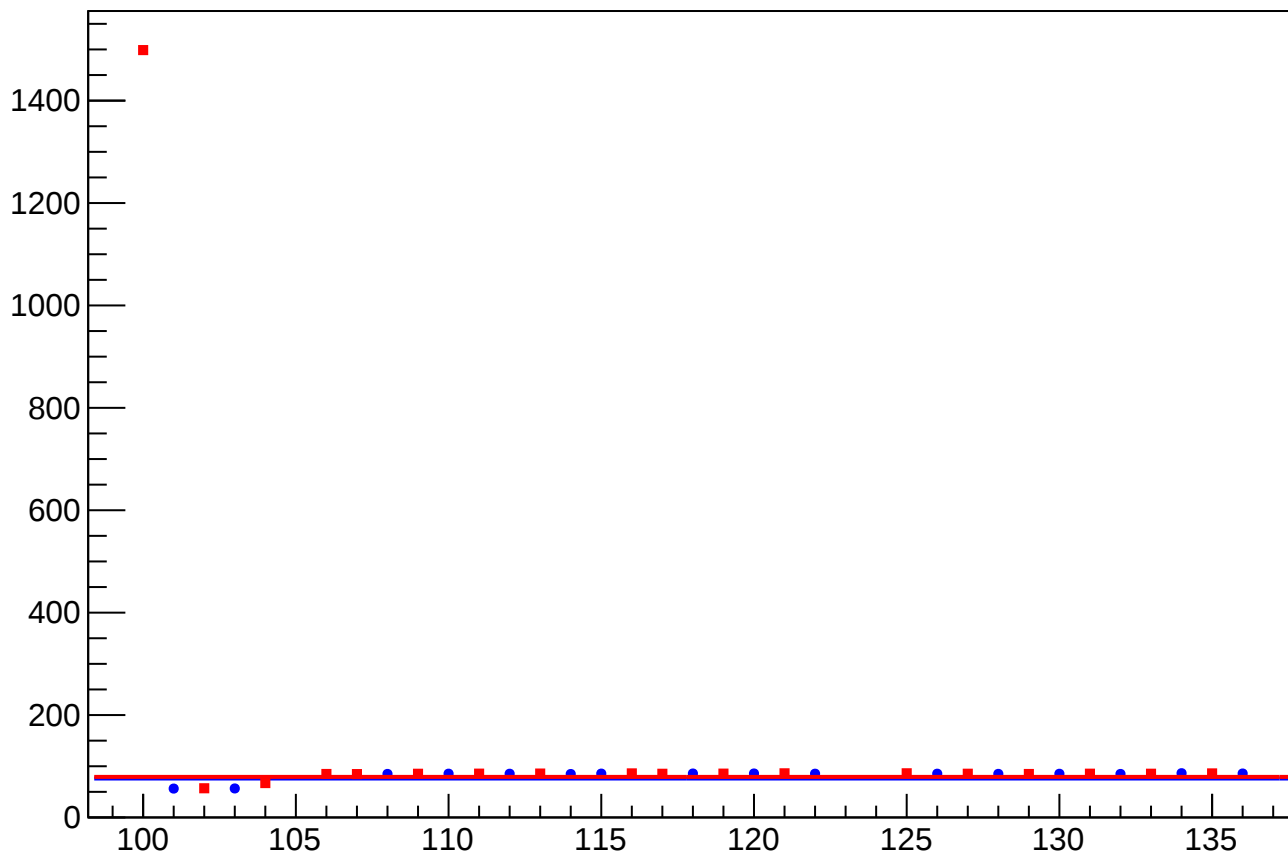
Right Out: 35.162+/-30.721  $\chi^2$ /NDF: 11.5/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

6.781+/-29.977  $\chi^2$ /NDF: 13.8/15

35.162+/-30.721  $\chi^2$ /NDF: 11.5/17

# asym\_ds\_dd\_rms vs Slug



Right In: 76.052+/-0.021  $\chi^2/\text{NDF}$ : 408962.1/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

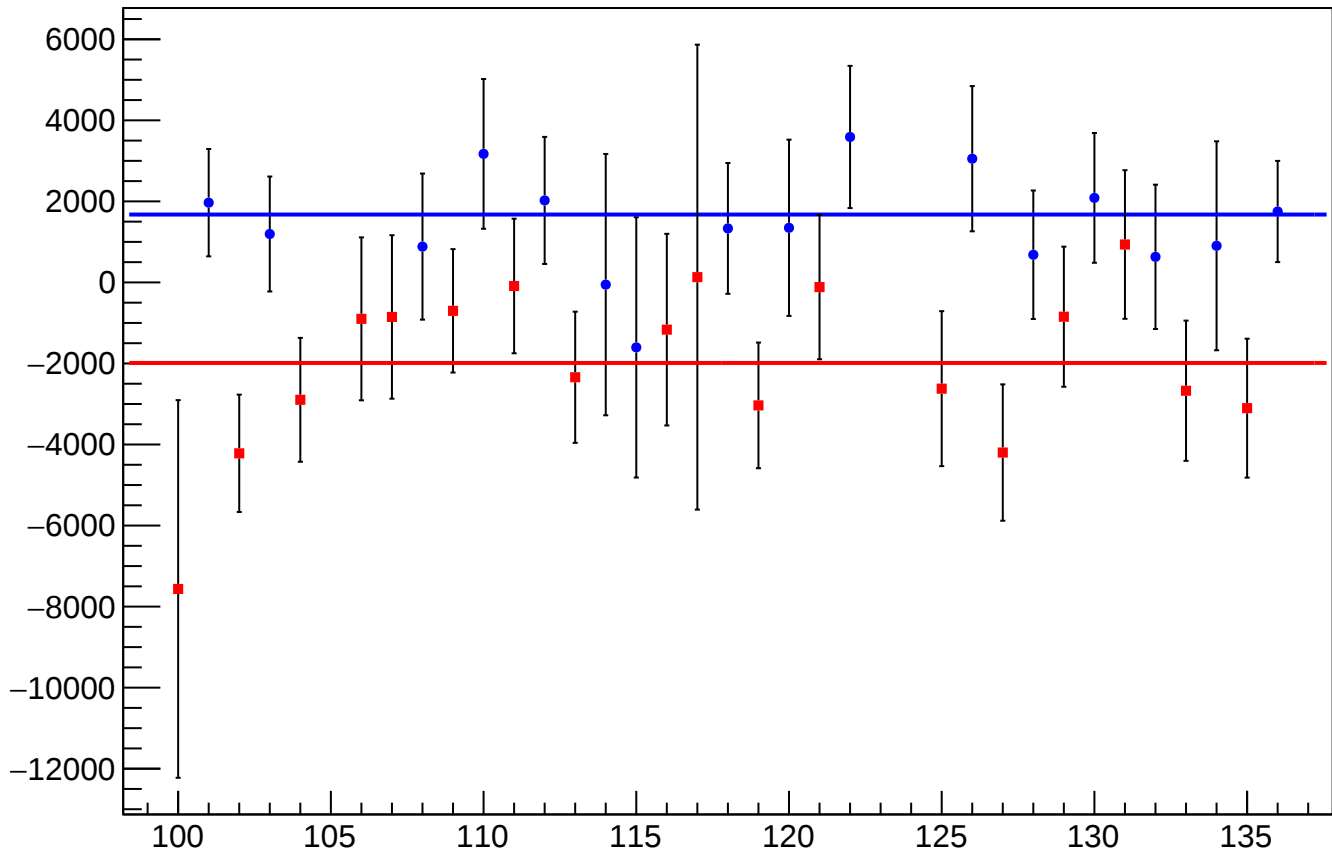
Right Out: 79.220+/-0.022  $\chi^2/\text{NDF}$ : 386006.4/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

76.052+/-0.021  $\chi^2/\text{NDF}$ : 408962.1/15

79.220+/-0.022  $\chi^2/\text{NDF}$ : 386006.4/17

# reg\_asym\_usl\_mean vs Slug



Right In: 1674.993+/-430.597  $\chi^2$ /NDF: 5.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

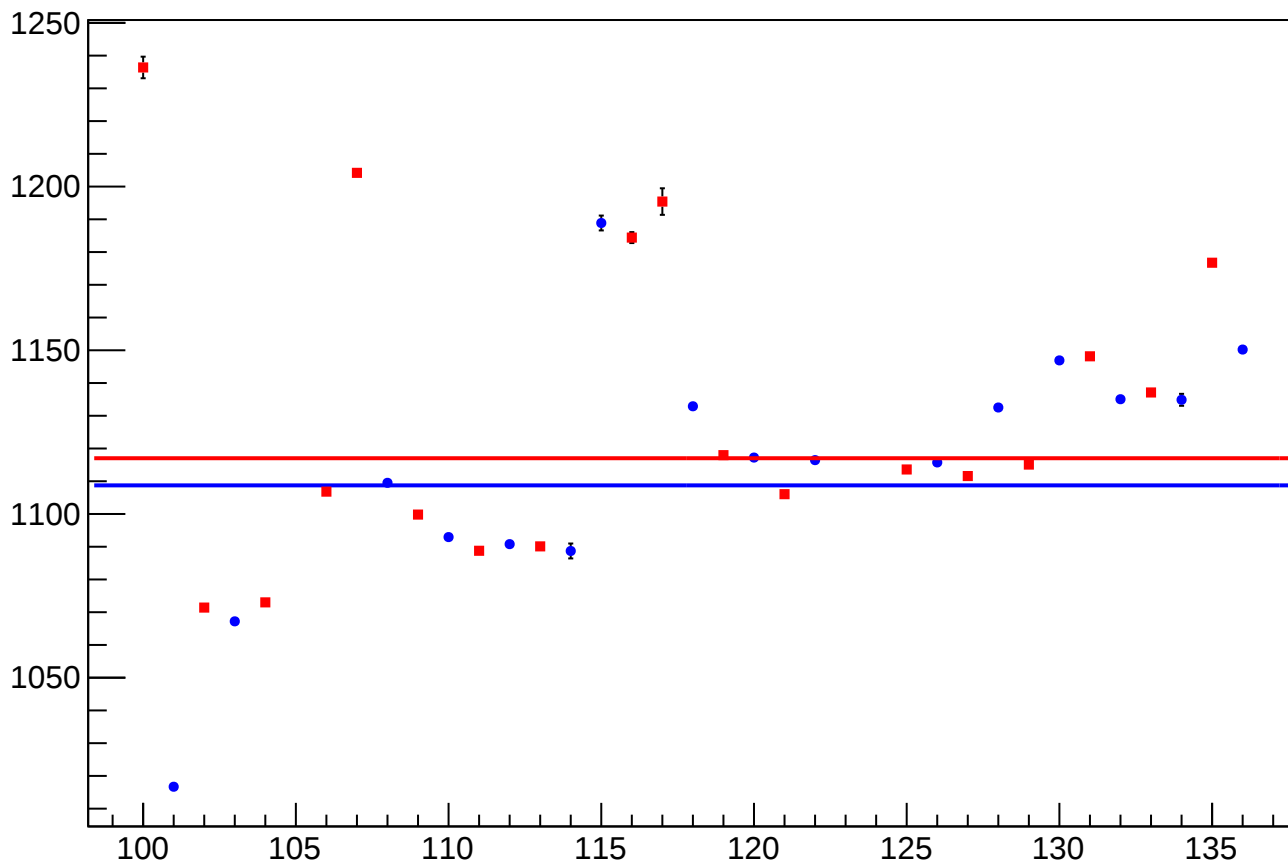
1674.993+/-430.597  $\chi^2$ /NDF: 5.1/15

Right Out: -1987.139+/-426.678  $\chi^2$ /NDF: 14.0/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-1987.139+/-426.678  $\chi^2$ /NDF: 14.0/17

# reg\_asym\_usl\_rms vs Slug



Right In: 1108.739 $\pm$ 0.304  $\chi^2$ /NDF: 18080.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

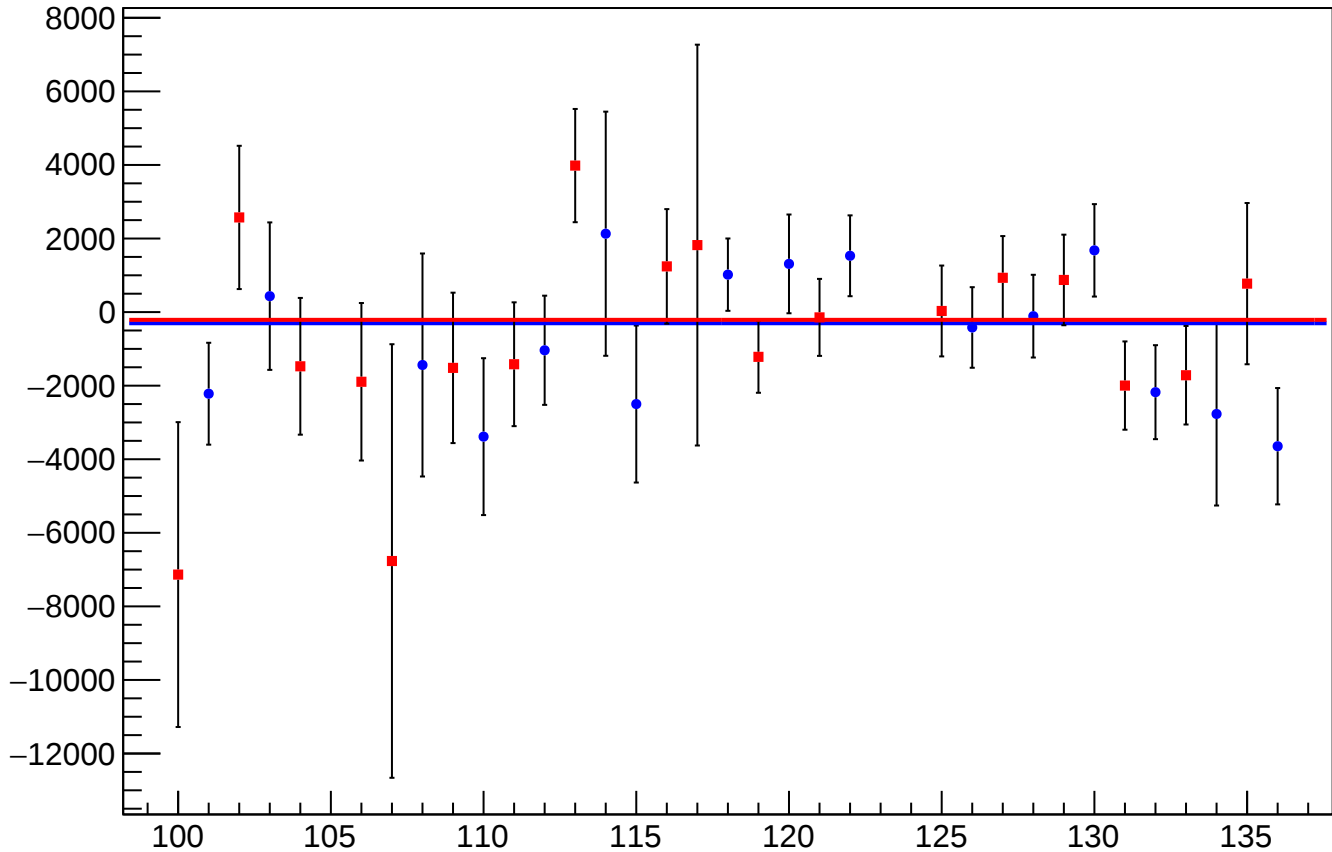
Right Out: 1117.029 $\pm$ 0.302  $\chi^2$ /NDF: 15505.2/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1108.739 $\pm$ 0.304  $\chi^2$ /NDF: 18080.7/15

1117.029 $\pm$ 0.302  $\chi^2$ /NDF: 15505.2/17

# asym\_usl\_correction\_mean vs Slug



Right In: -303.335+/-360.068  $\chi^2$ /NDF: 22.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

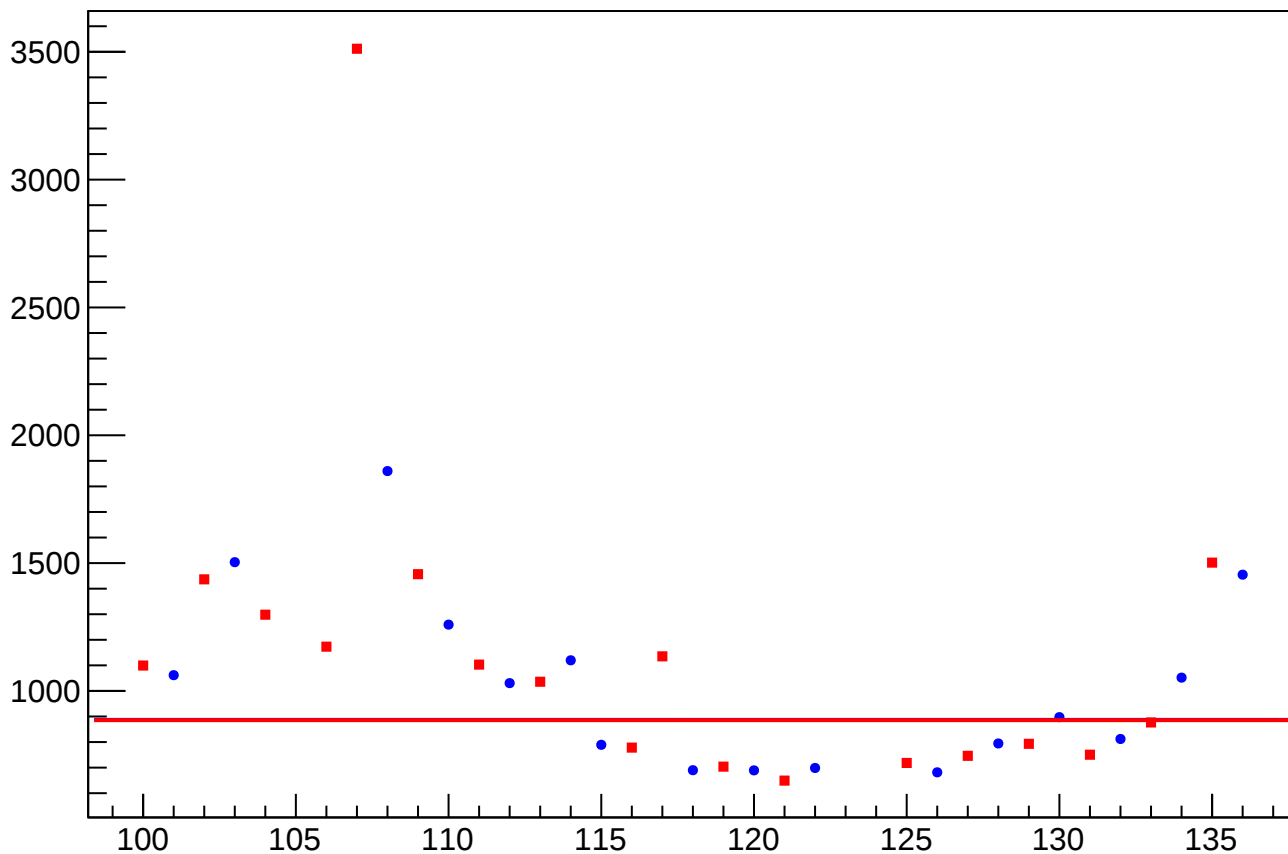
Right Out: -210.396+/-357.315  $\chi^2$ /NDF: 23.1/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-303.335+/-360.068  $\chi^2$ /NDF: 22.3/15

-210.396+/-357.315  $\chi^2$ /NDF: 23.1/17

# asym\_usl\_correction\_rms vs Slug



Right In: 886.691+/-0.255  $\chi^2/\text{NDF}$ : 1060864.2/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

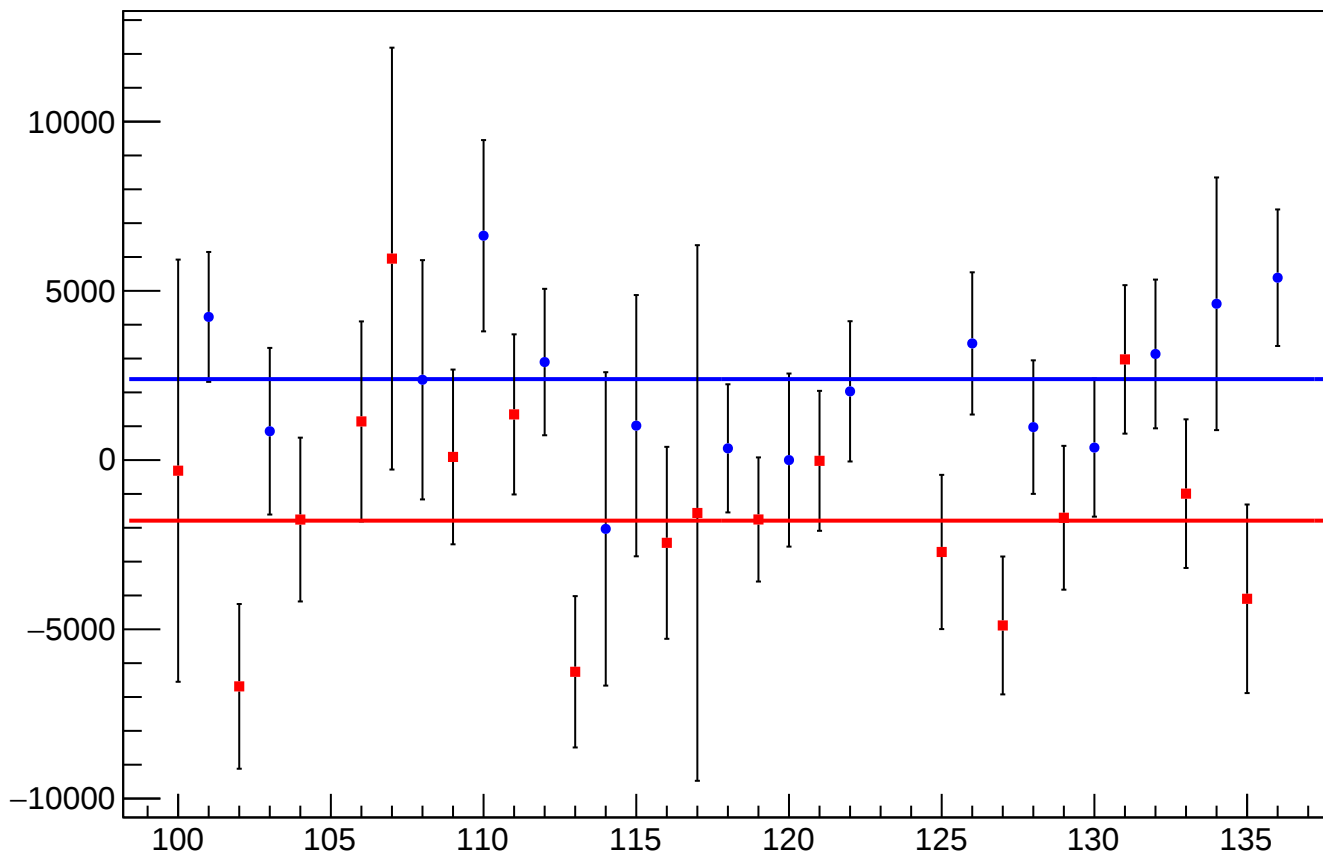
Right Out: 885.673+/-0.253  $\chi^2/\text{NDF}$ : 1352396.3/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

886.691+/-0.255  $\chi^2/\text{NDF}$ : 1060864.2/15

885.673+/-0.253  $\chi^2/\text{NDF}$ : 1352396.3/17

# asym\_usl\_mean vs Slug



Right In: 2392.385 $\pm$ 588.991  $\chi^2$ /NDF: 11.2/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

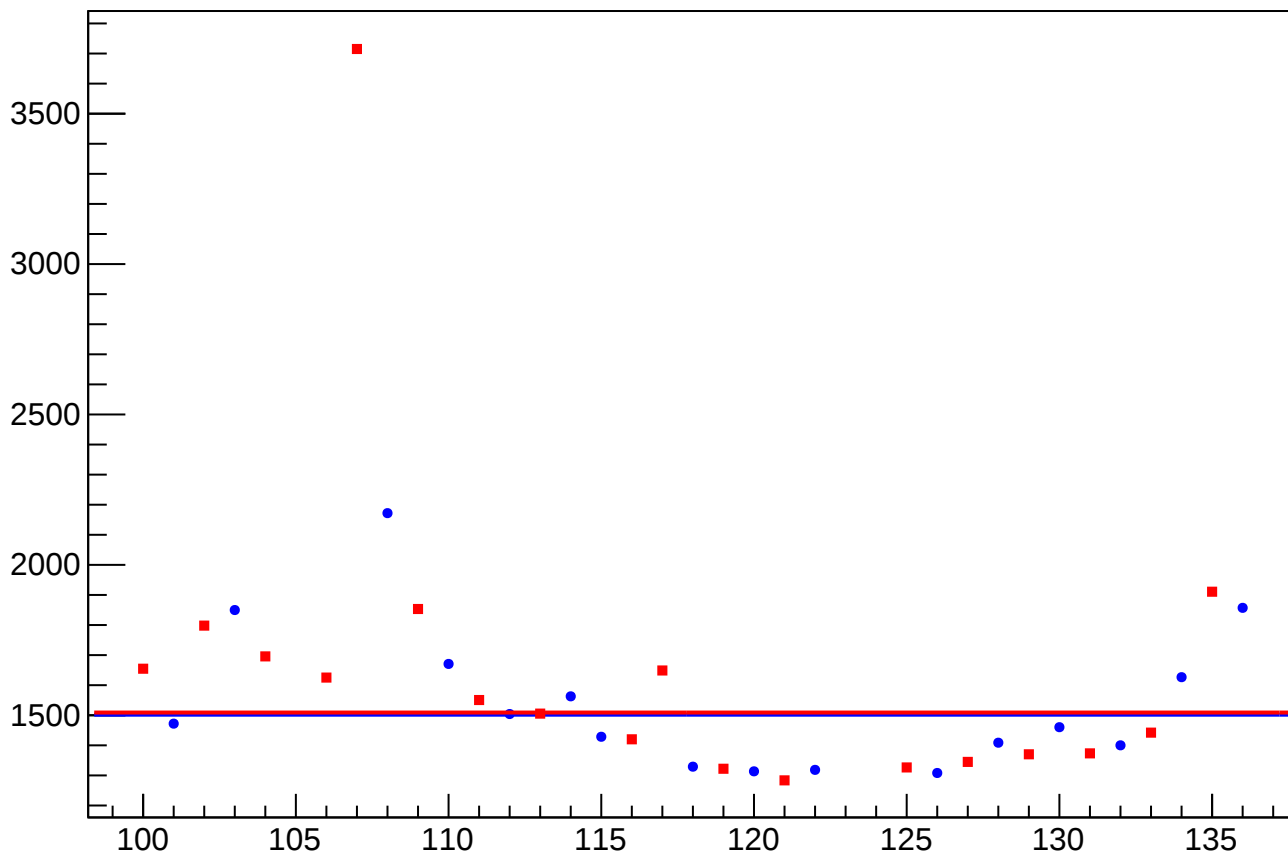
Right Out: -1789.342 $\pm$ 586.681  $\chi^2$ /NDF: 21.7/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2392.385 $\pm$ 588.991  $\chi^2$ /NDF: 11.2/15

-1789.342 $\pm$ 586.681  $\chi^2$ /NDF: 21.7/17

# asym\_usl\_rms vs Slug



Right In: 1501.937 $\pm$ 0.416  $\chi^2$ /NDF: 254549.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

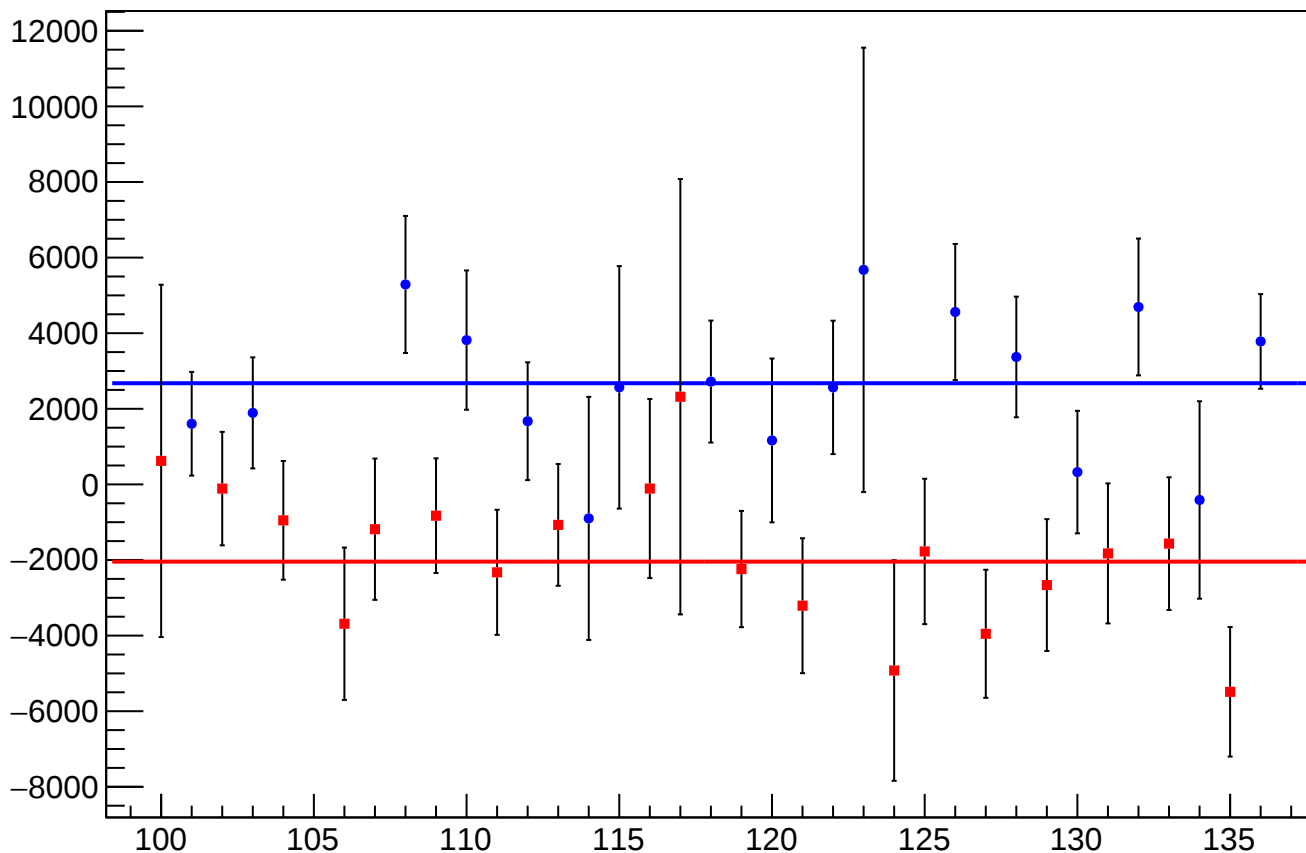
Right Out: 1509.053 $\pm$ 0.415  $\chi^2$ /NDF: 463655.9/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1501.937 $\pm$ 0.416  $\chi^2$ /NDF: 254549.7/15

1509.053 $\pm$ 0.415  $\chi^2$ /NDF: 463655.9/17

# reg\_asym\_usr\_mean vs Slug



Right In: 2676.683+/-433.582  $\chi^2$ /NDF: 12.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

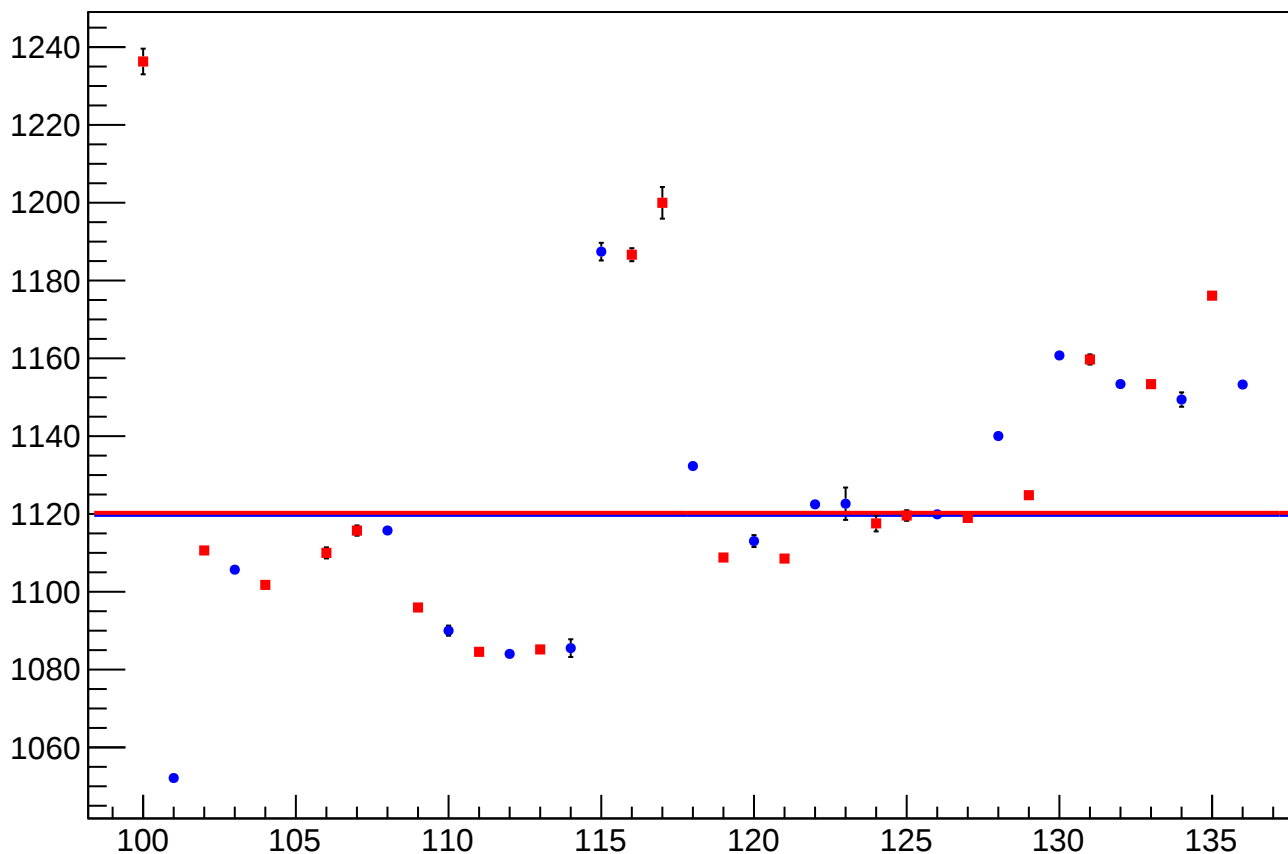
Right Out: -2042.901+/-423.333  $\chi^2$ /NDF: 12.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2676.683+/-433.582  $\chi^2$ /NDF: 12.6/16

-2042.901+/-423.333  $\chi^2$ /NDF: 12.6/18

# reg\_asym\_usr\_rms vs Slug



Right In: 1119.762 $\pm$ 0.307  $\chi^2$ /NDF: 11876.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

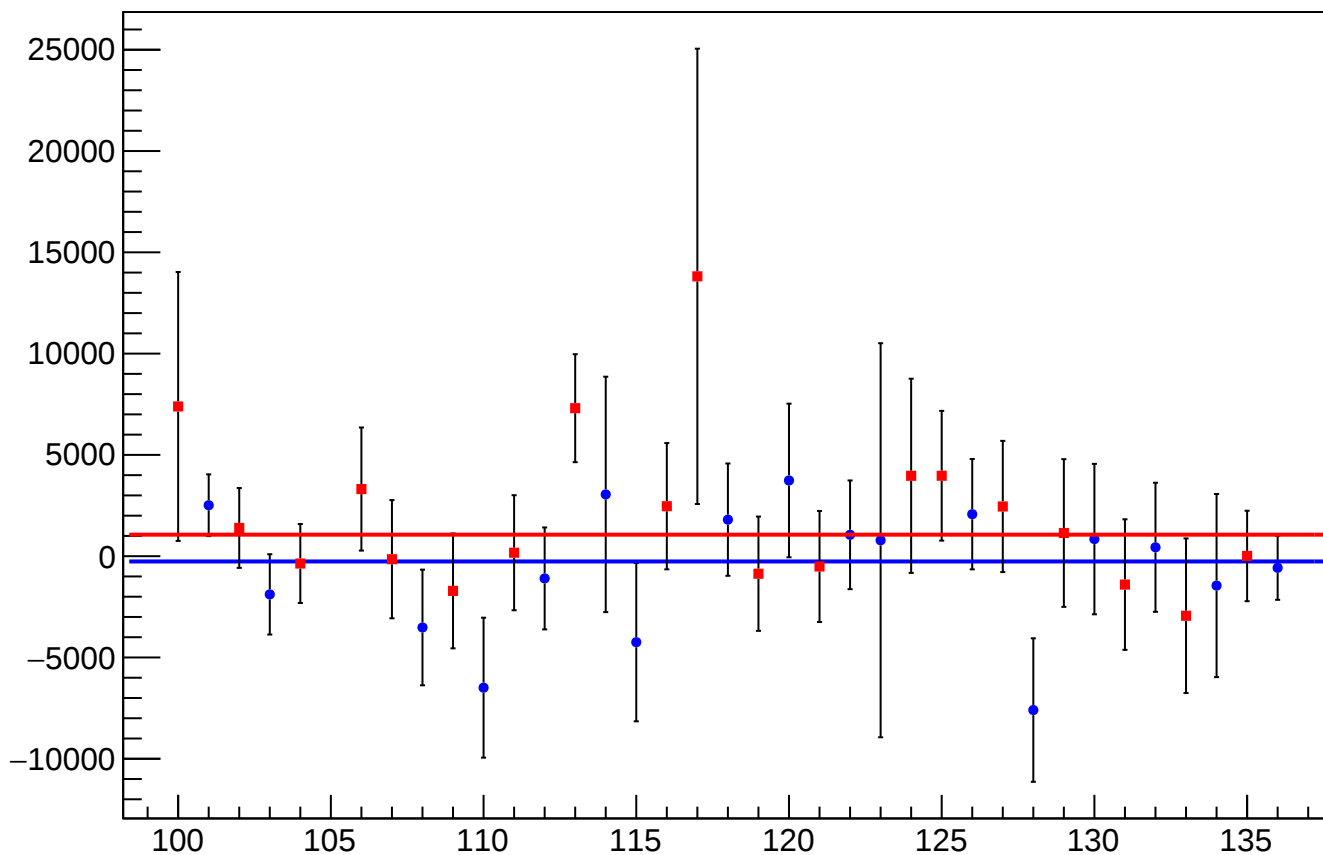
Right Out: 1120.292 $\pm$ 0.299  $\chi^2$ /NDF: 9968.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

1119.762 $\pm$ 0.307  $\chi^2$ /NDF: 11876.8/16

1120.292 $\pm$ 0.299  $\chi^2$ /NDF: 9968.8/18

# asym\_usr\_correction\_mean vs Slug



Right In: -259.821+/-655.275  $\chi^2$ /NDF: 17.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

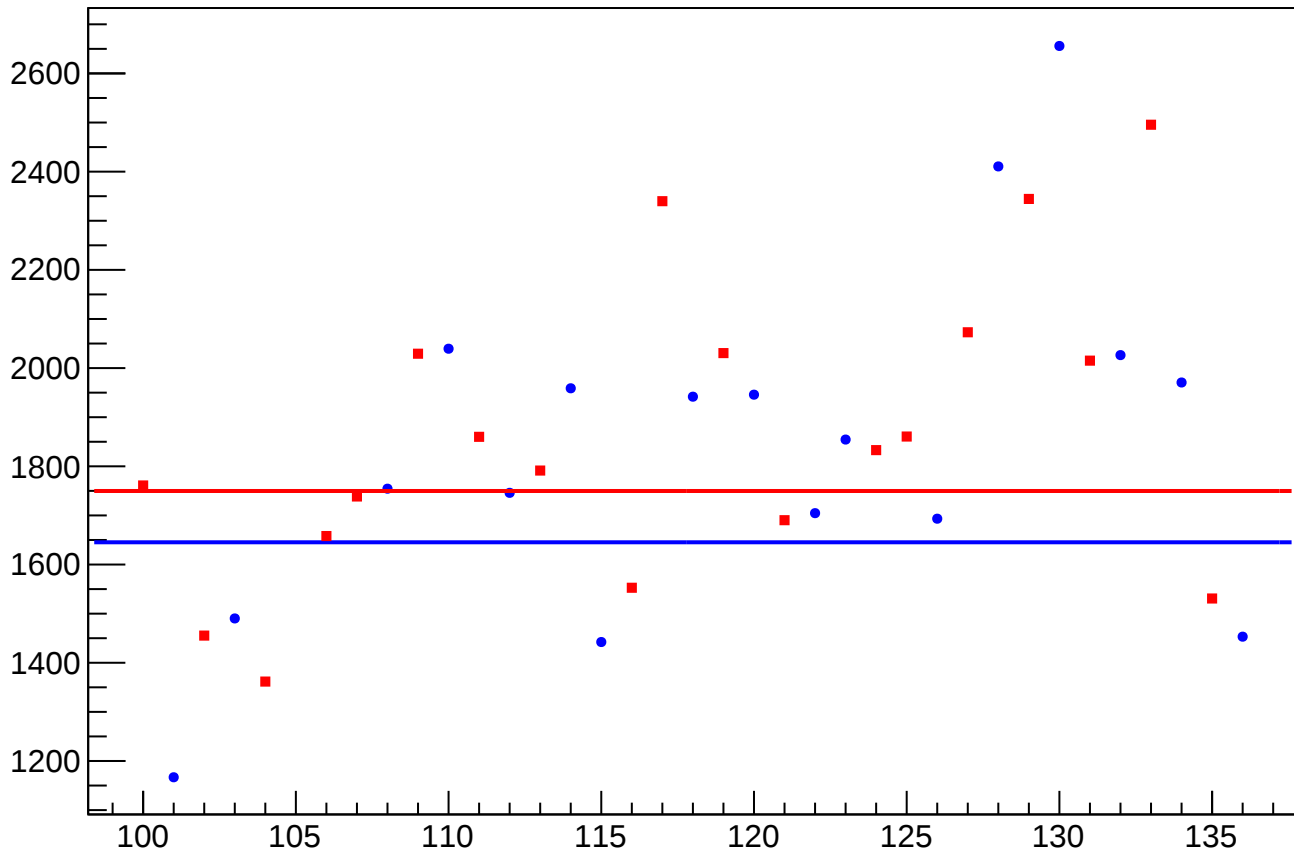
Right Out: 1062.497+/-673.443  $\chi^2$ /NDF: 14.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-259.821+/-655.275  $\chi^2$ /NDF: 17.2/16

1062.497+/-673.443  $\chi^2$ /NDF: 14.3/18

# asym\_usr\_correction\_rms vs Slug



Right In: 1645.307 $\pm$ 0.463  $\chi^2$ /NDF: 600915.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

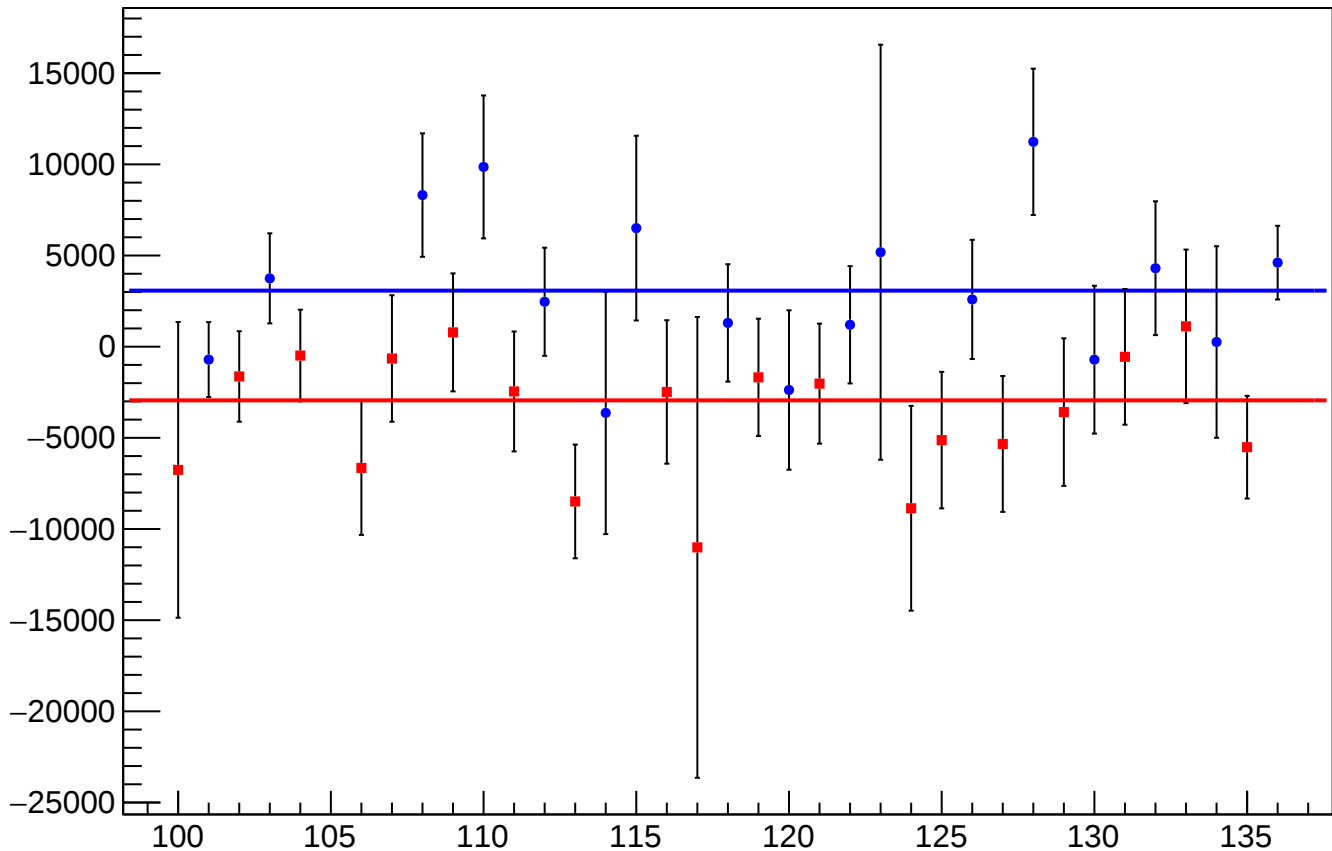
1645.307 $\pm$ 0.463  $\chi^2$ /NDF: 600915.2/16

Right Out: 1749.765 $\pm$ 0.476  $\chi^2$ /NDF: 368204.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1749.765 $\pm$ 0.476  $\chi^2$ /NDF: 368204.6/18

# asym\_usr\_mean vs Slug



Right In: 3075.401 $\pm$ 802.249  $\chi^2$ /NDF: 18.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

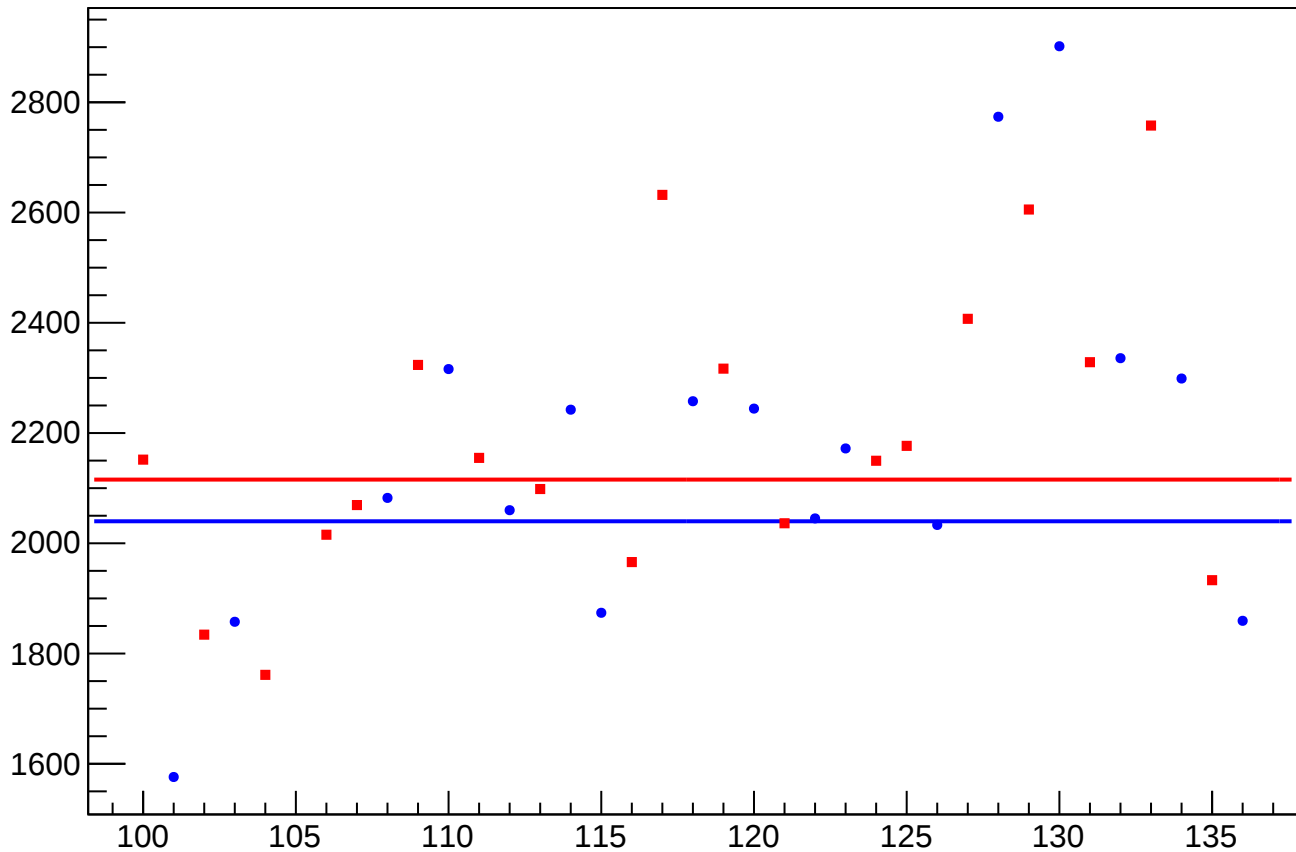
3075.401 $\pm$ 802.249  $\chi^2$ /NDF: 18.6/16

Right Out: -2943.602 $\pm$ 807.339  $\chi^2$ /NDF: 12.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-2943.602 $\pm$ 807.339  $\chi^2$ /NDF: 12.1/18

# asym\_usr\_rms vs Slug



Right In: 2039.942 $\pm$ 0.567  $\chi^2$ /NDF: 331984.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

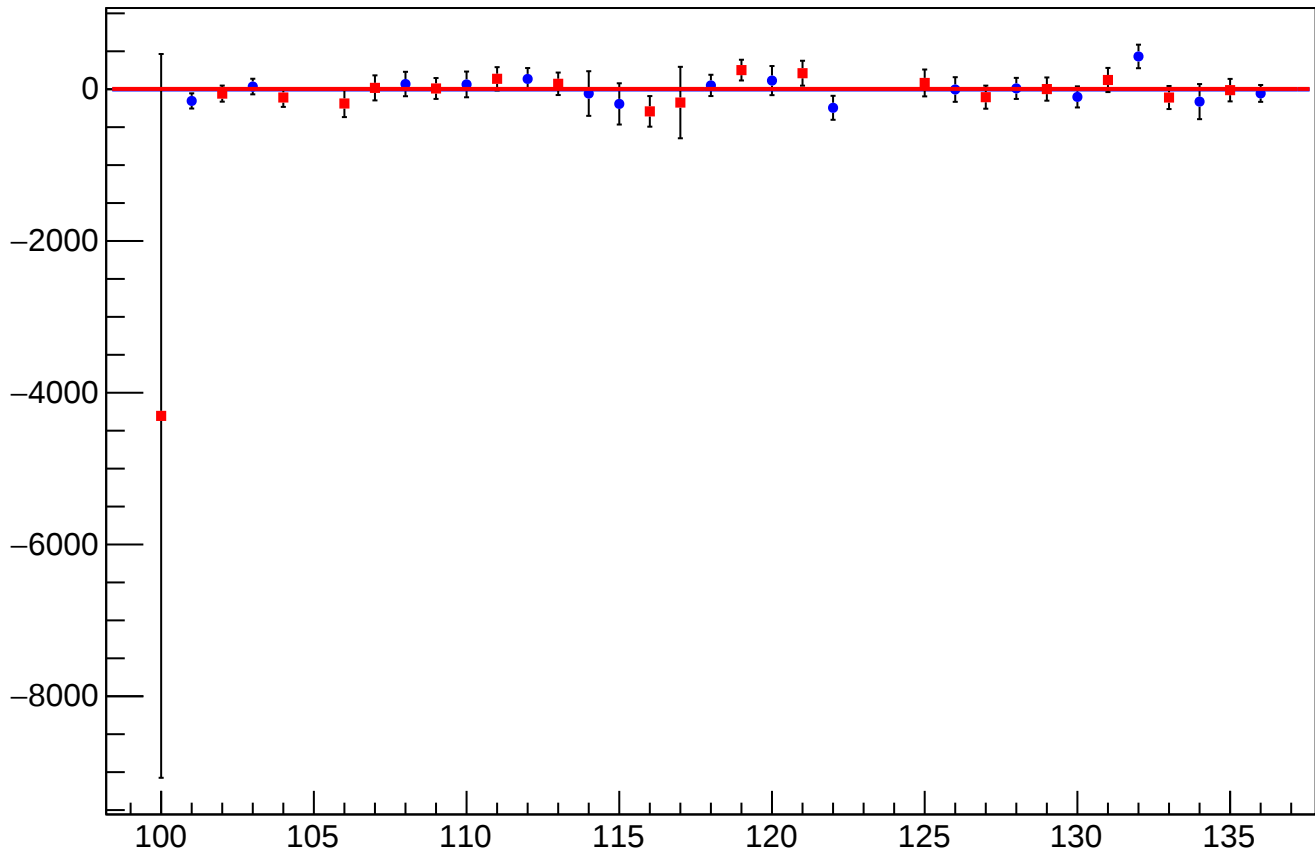
2039.942 $\pm$ 0.567  $\chi^2$ /NDF: 331984.0/16

Right Out: 2115.566 $\pm$ 0.571  $\chi^2$ /NDF: 194715.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2115.566 $\pm$ 0.571  $\chi^2$ /NDF: 194715.3/18

# reg\_asym\_dsl\_mean vs Slug



Right In: -3.283+/-36.714  $\chi^2/\text{NDF}$ : 16.1/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

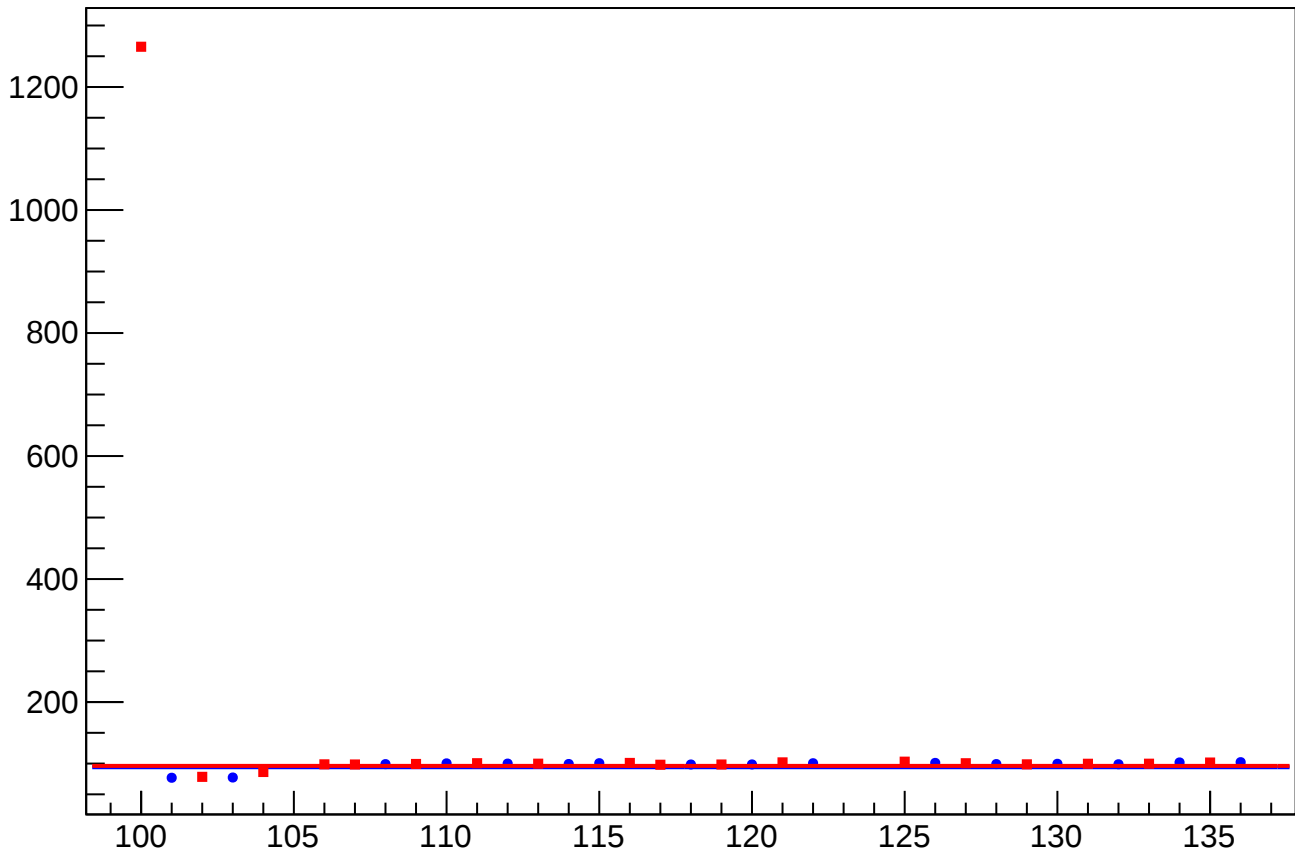
Right Out: 4.154+/-37.041  $\chi^2/\text{NDF}$ : 13.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.283+/-36.714  $\chi^2/\text{NDF}$ : 16.1/15

4.154+/-37.041  $\chi^2/\text{NDF}$ : 13.1/17

# reg\_asym\_dsl\_rms vs Slug



Right In: 94.068+/-0.026  $\chi^2/\text{NDF}$ : 152285.6/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

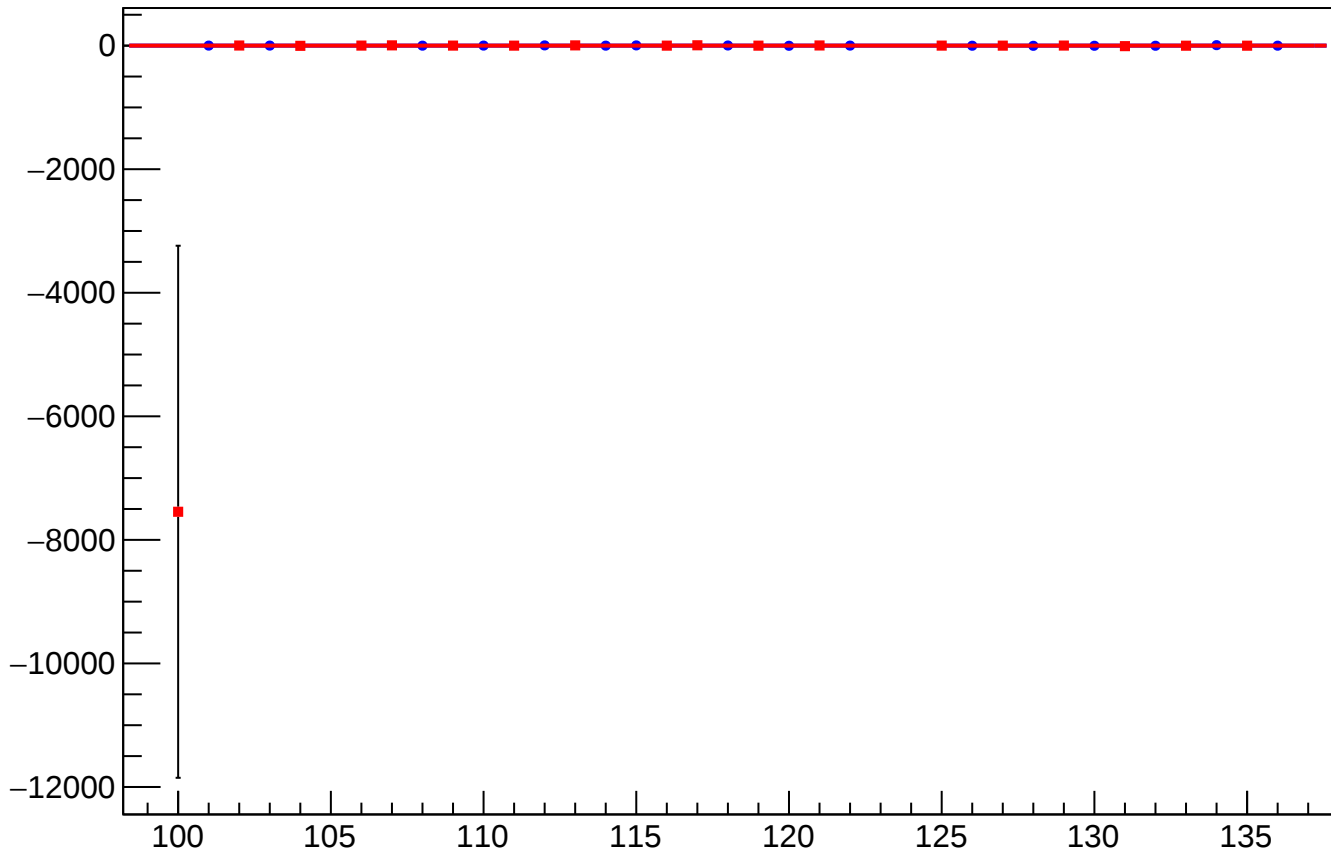
Right Out: 96.241+/-0.026  $\chi^2/\text{NDF}$ : 208050.8/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

94.068+/-0.026  $\chi^2/\text{NDF}$ : 152285.6/15

96.241+/-0.026  $\chi^2/\text{NDF}$ : 208050.8/17

# asym\_dsl\_correction\_mean vs Slug



Right In: 0.426+/-0.616     $\chi^2/\text{NDF}$ : 9.7/15

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

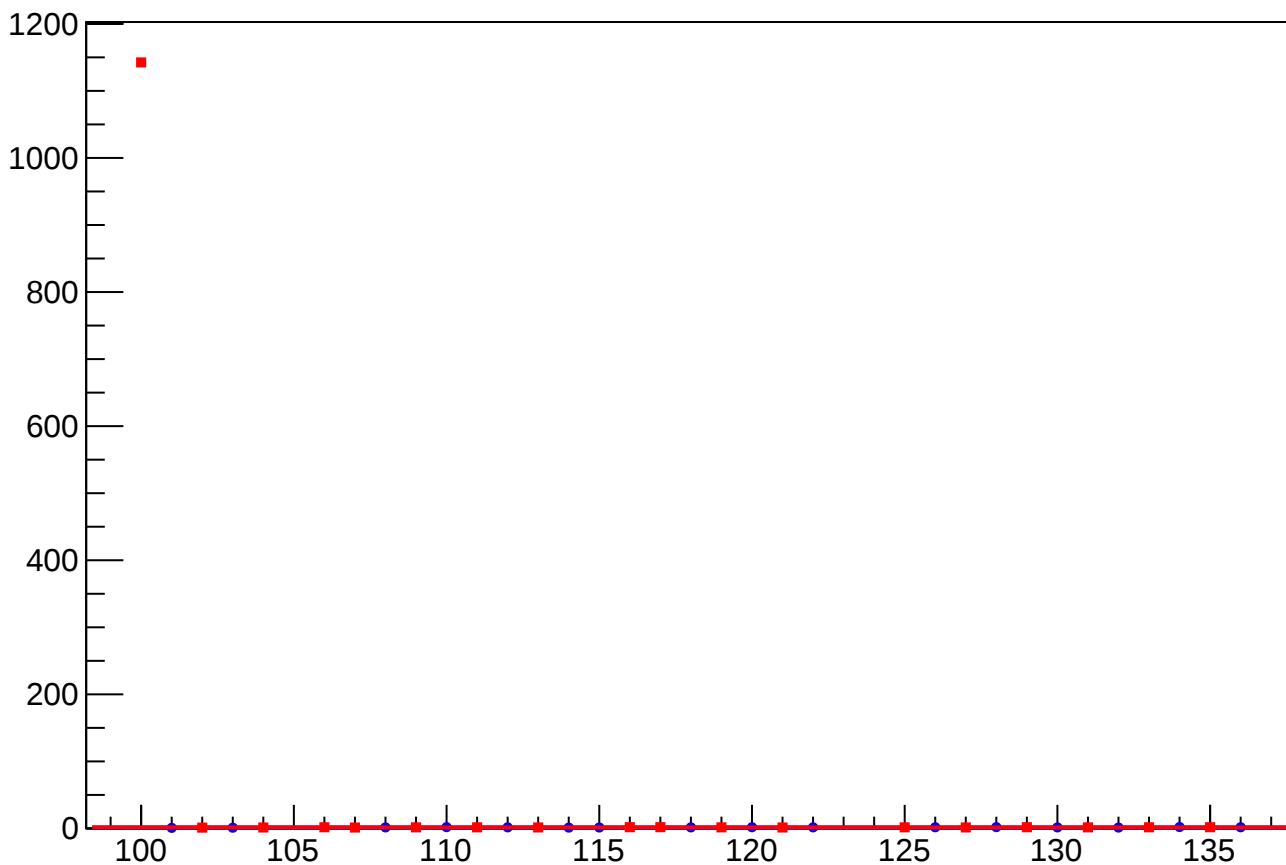
Right Out: 0.434+/-0.650     $\chi^2/\text{NDF}$ : 22.3/17

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.426+/-0.616     $\chi^2/\text{NDF}$ : 9.7/15

0.434+/-0.650     $\chi^2/\text{NDF}$ : 22.3/17

# asym\_dsl\_correction\_rms vs Slug



Right In: 1.420+/-0.000  $\chi^2/\text{NDF}$ : 730935.2/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

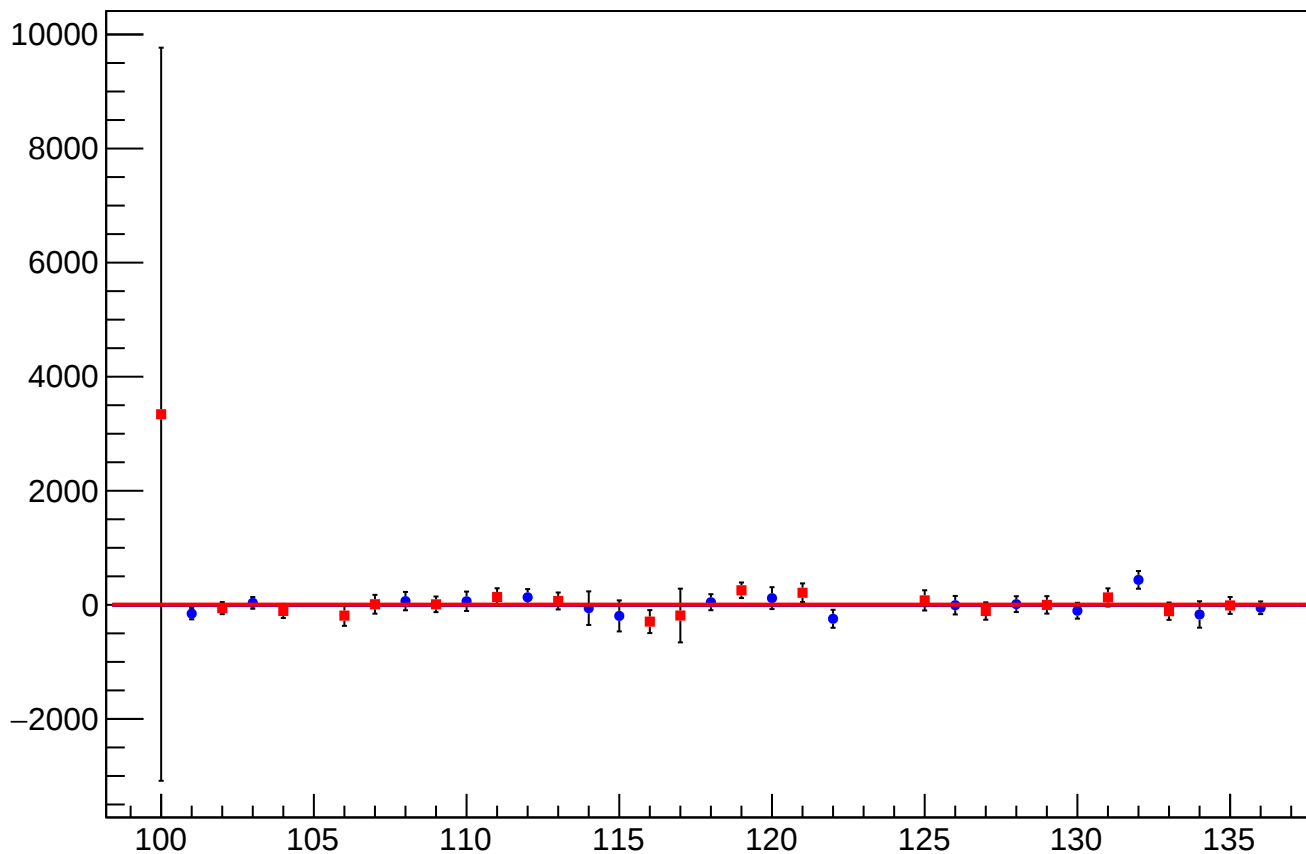
Right Out: 1.555+/-0.000  $\chi^2/\text{NDF}$ : 317987.7/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.420+/-0.000  $\chi^2/\text{NDF}$ : 730935.2/15

1.555+/-0.000  $\chi^2/\text{NDF}$ : 317987.7/17

# asym\_dsl\_mean vs Slug



Right In: -3.099+/-36.723  $\chi^2/\text{NDF}$ : 16.3/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

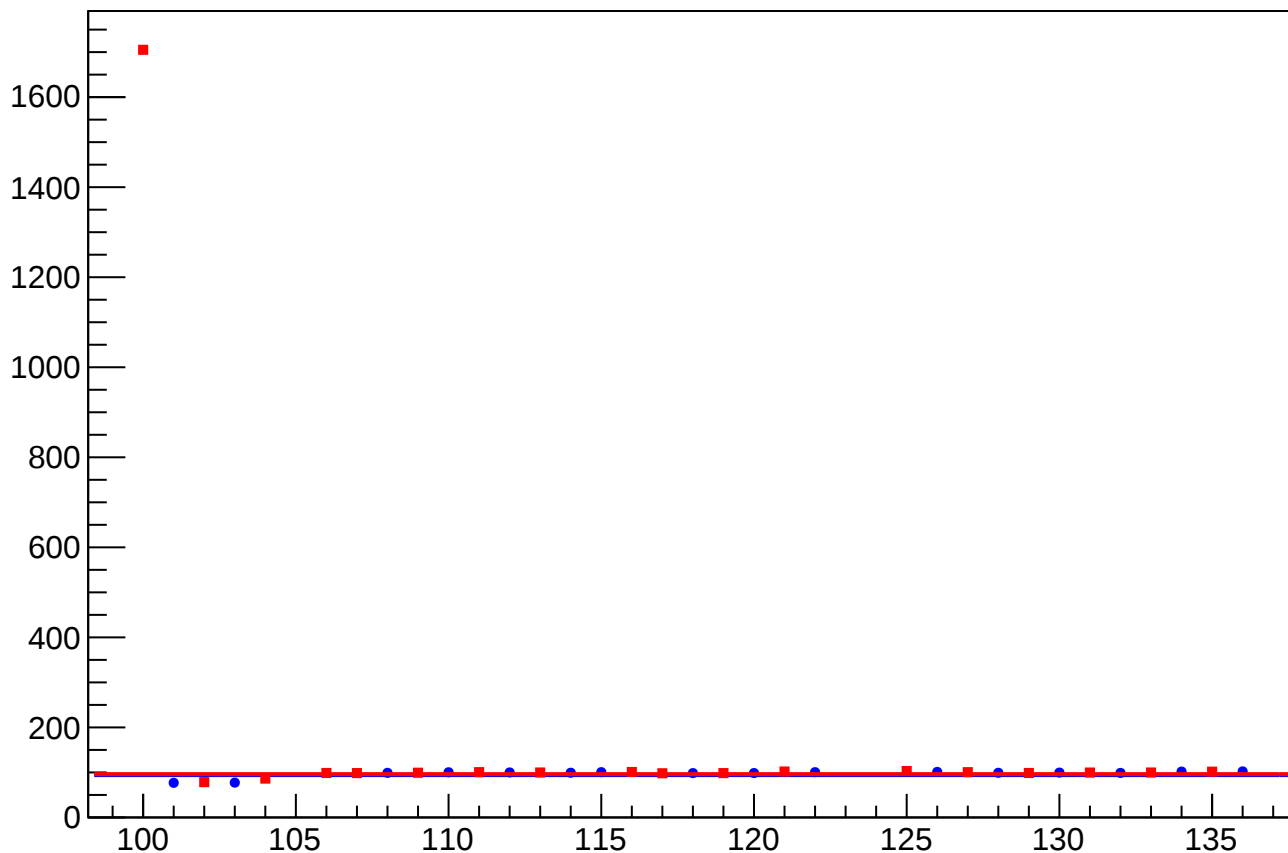
Right Out: 4.231+/-37.051  $\chi^2/\text{NDF}$ : 12.8/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.099+/-36.723  $\chi^2/\text{NDF}$ : 16.3/15

4.231+/-37.051  $\chi^2/\text{NDF}$ : 12.8/17

# asym\_dsl\_rms vs Slug



Right In: 94.093+/-0.026     $\chi^2/\text{NDF}$ : 152305.3/15

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

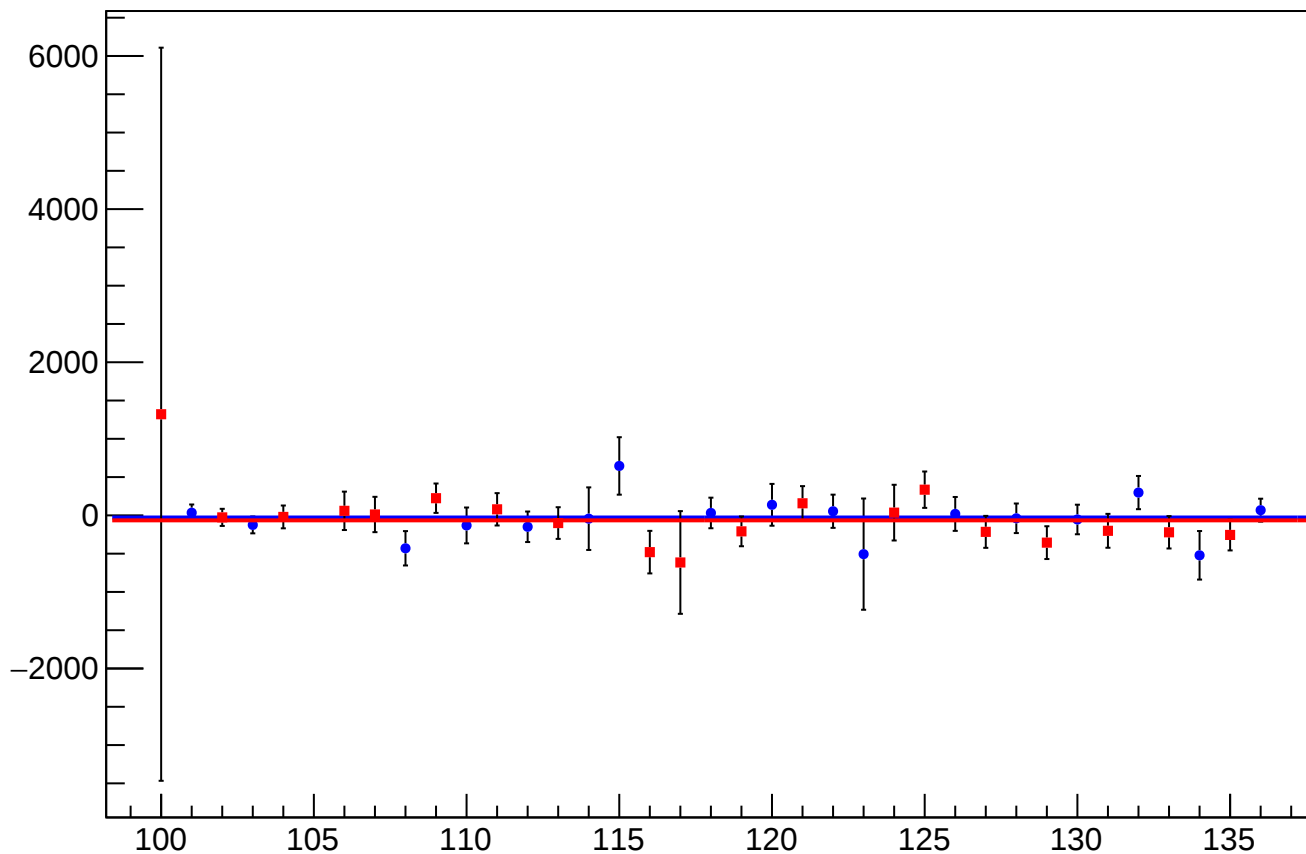
Right Out: 96.249+/-0.026     $\chi^2/\text{NDF}$ : 213181.5/17

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

94.093+/-0.026     $\chi^2/\text{NDF}$ : 152305.3/15

96.249+/-0.026     $\chi^2/\text{NDF}$ : 213181.5/17

# reg\_asym\_dsr\_mean vs Slug



Right In: -27.840+/-46.777  $\chi^2$ /NDF: 14.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

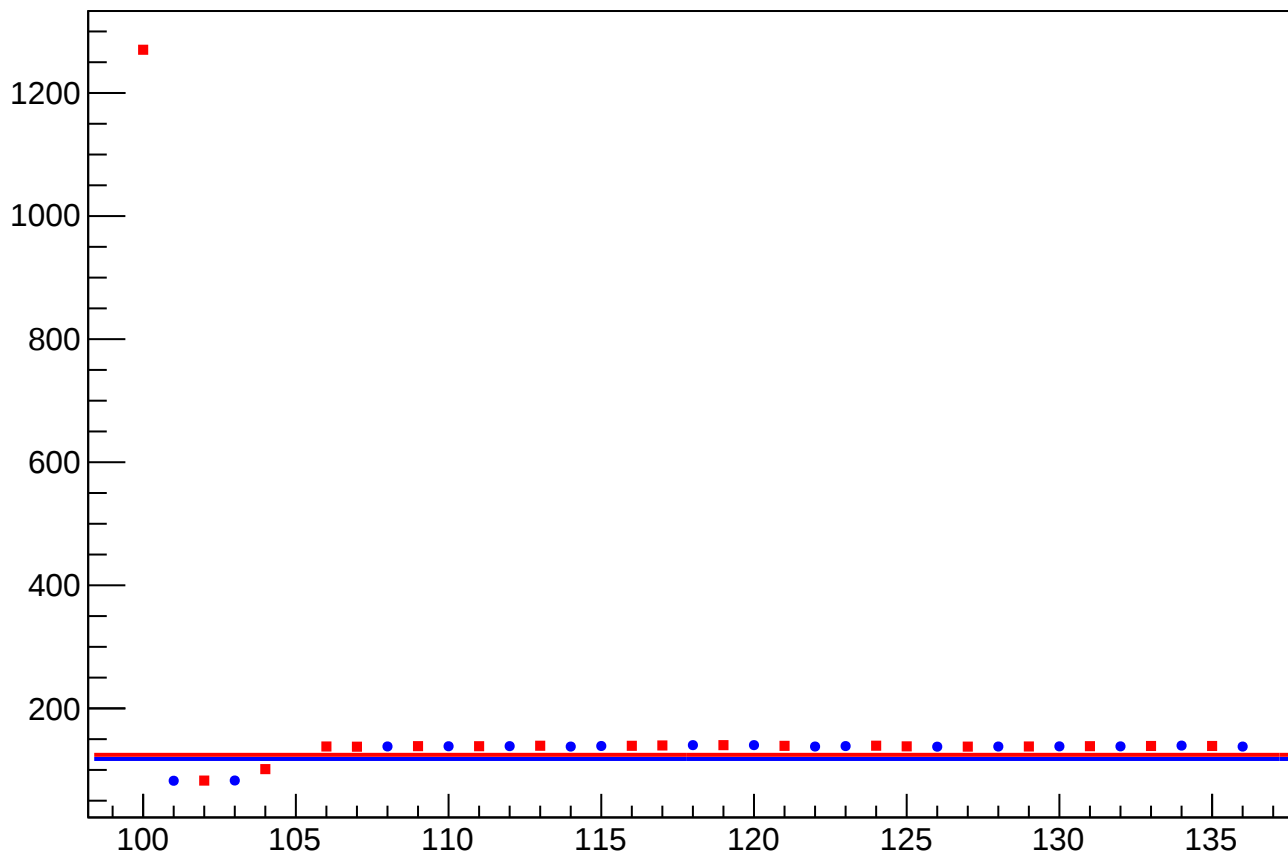
Right Out: -64.918+/-48.136  $\chi^2$ /NDF: 15.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-27.840+/-46.777  $\chi^2$ /NDF: 14.3/16

-64.918+/-48.136  $\chi^2$ /NDF: 15.0/18

# reg\_asym\_dsr\_rms vs Slug



Right In: 117.815+/-0.033  $\chi^2/\text{NDF}$ : 666581.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

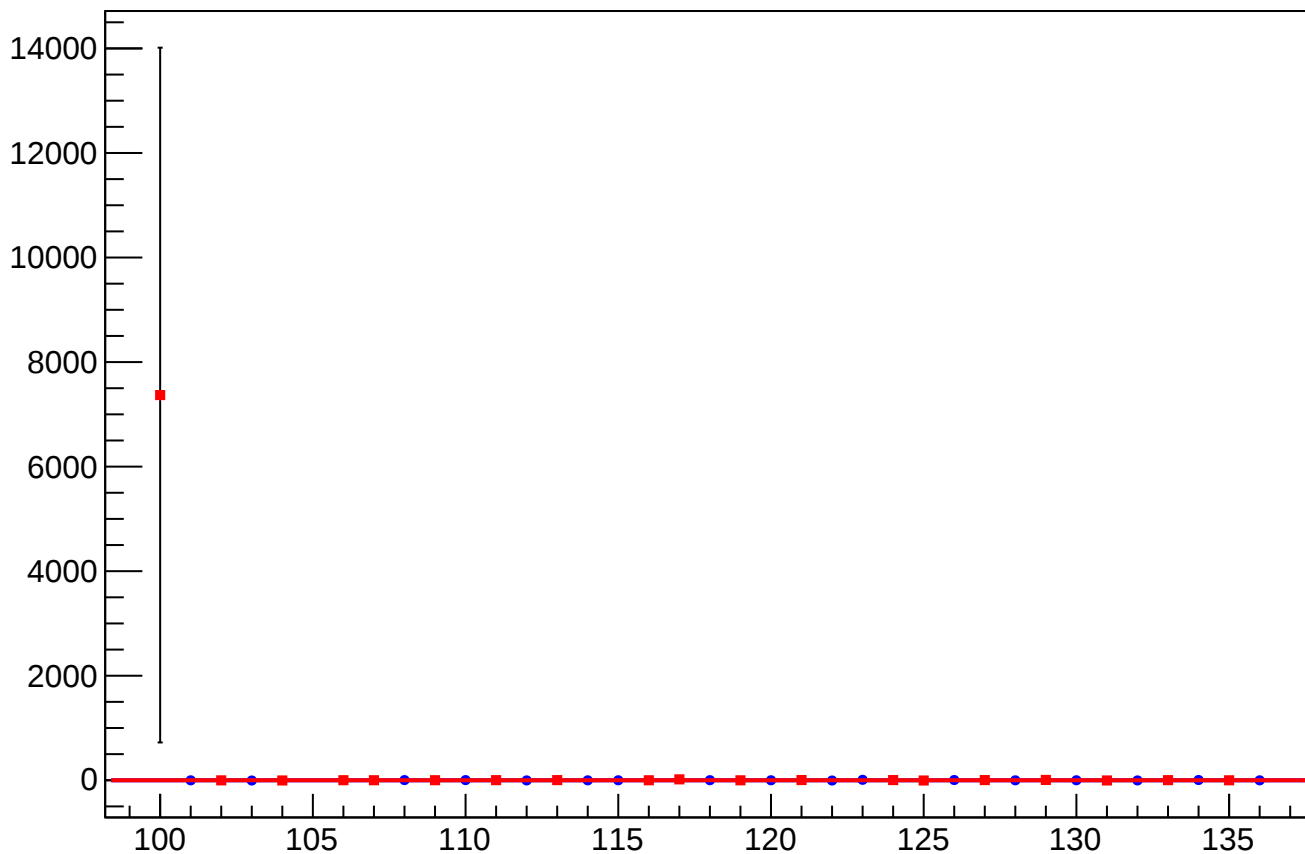
Right Out: 124.544+/-0.034  $\chi^2/\text{NDF}$ : 567447.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

117.815+/-0.033  $\chi^2/\text{NDF}$ : 666581.7/16

124.544+/-0.034  $\chi^2/\text{NDF}$ : 567447.4/18

# asym\_dsr\_correction\_mean vs Slug



Right In: -0.695+/-0.810     $\chi^2/\text{NDF}$ : 12.7/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

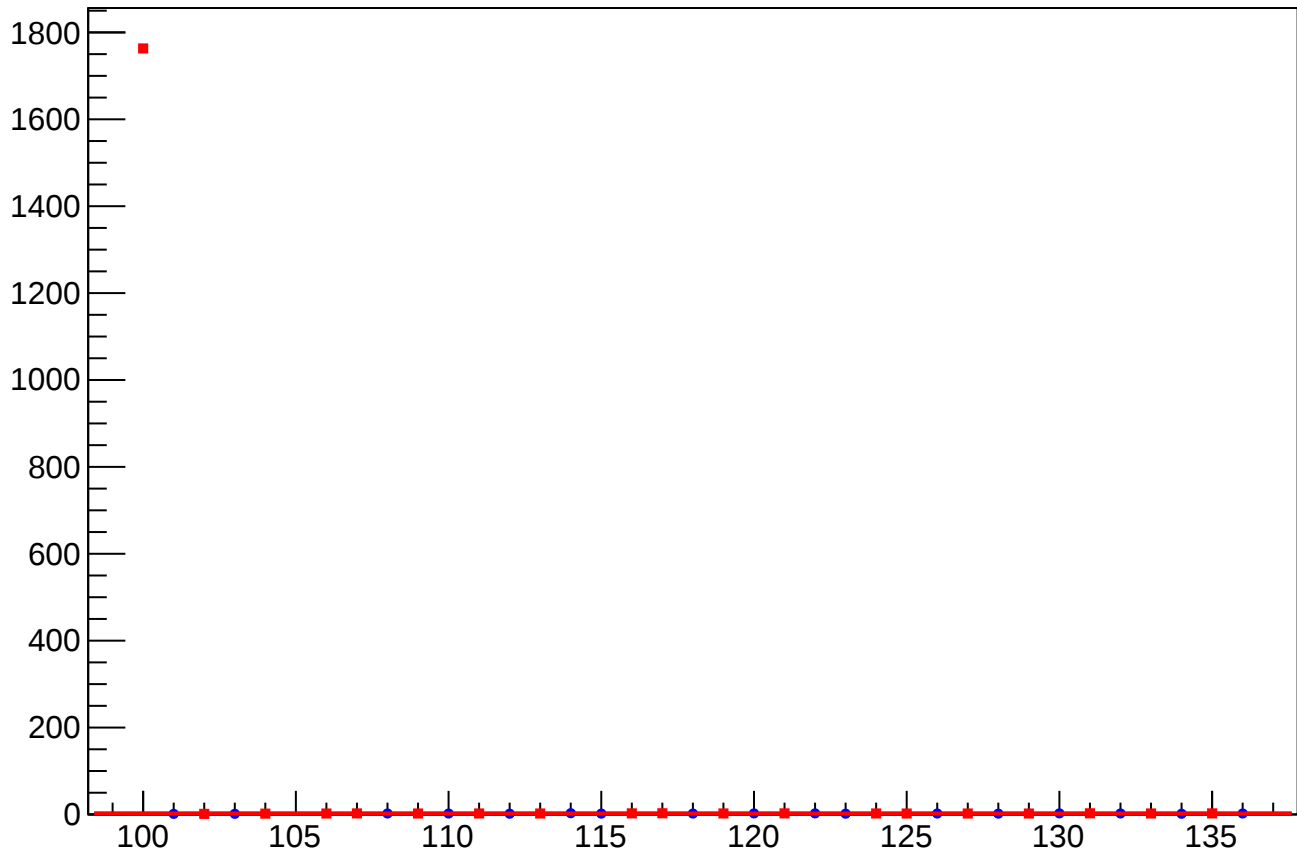
Right Out: 0.563+/-0.862     $\chi^2/\text{NDF}$ : 14.2/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

-0.695+/-0.810     $\chi^2/\text{NDF}$ : 12.7/16

0.563+/-0.862     $\chi^2/\text{NDF}$ : 14.2/18

# asym\_dsr\_correction\_rms vs Slug



Right In: 1.869 $\pm$ 0.001  $\chi^2$ /NDF: 493173.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

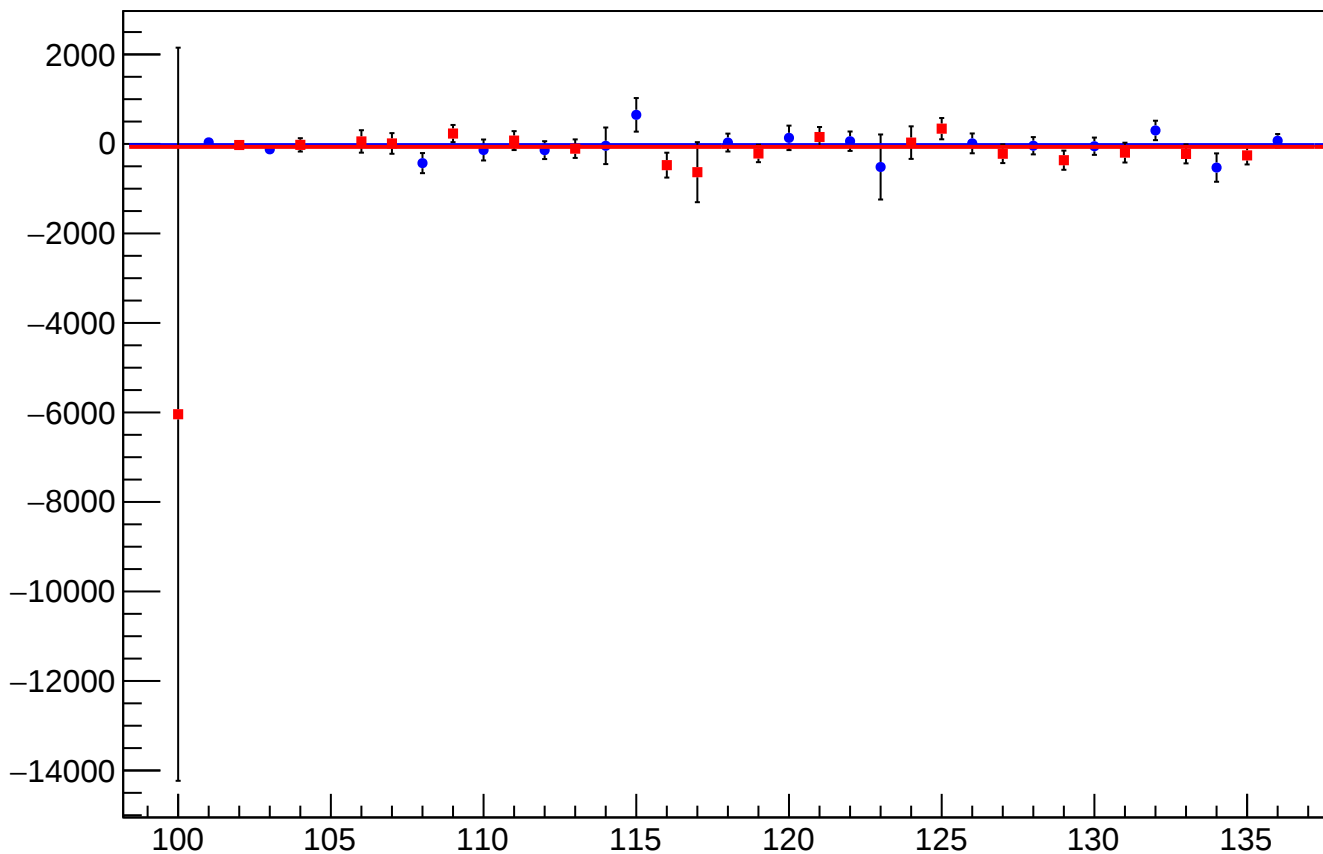
Right Out: 2.071 $\pm$ 0.001  $\chi^2$ /NDF: 529527.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1.869 $\pm$ 0.001  $\chi^2$ /NDF: 493173.6/16

2.071 $\pm$ 0.001  $\chi^2$ /NDF: 529527.4/18

# asym\_dsr\_mean vs Slug



Right In: -26.258+/-46.789  $\chi^2$ /NDF: 14.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

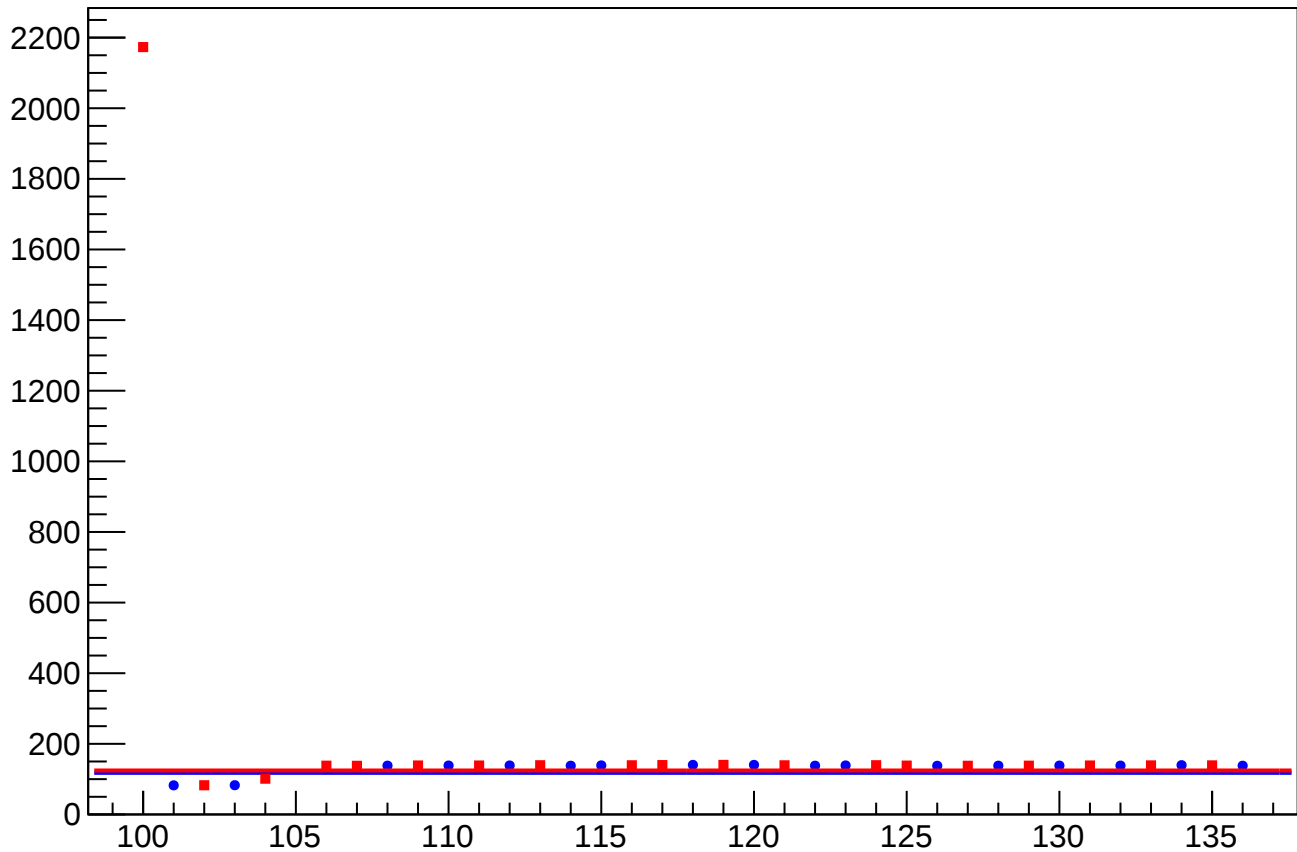
Right Out: -65.742+/-48.150  $\chi^2$ /NDF: 15.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-26.258+/-46.789  $\chi^2$ /NDF: 14.4/16

-65.742+/-48.150  $\chi^2$ /NDF: 15.6/18

# asym\_dsr\_rms vs Slug



Right In: 117.847 $\pm$ 0.033  $\chi^2$ /NDF: 666622.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

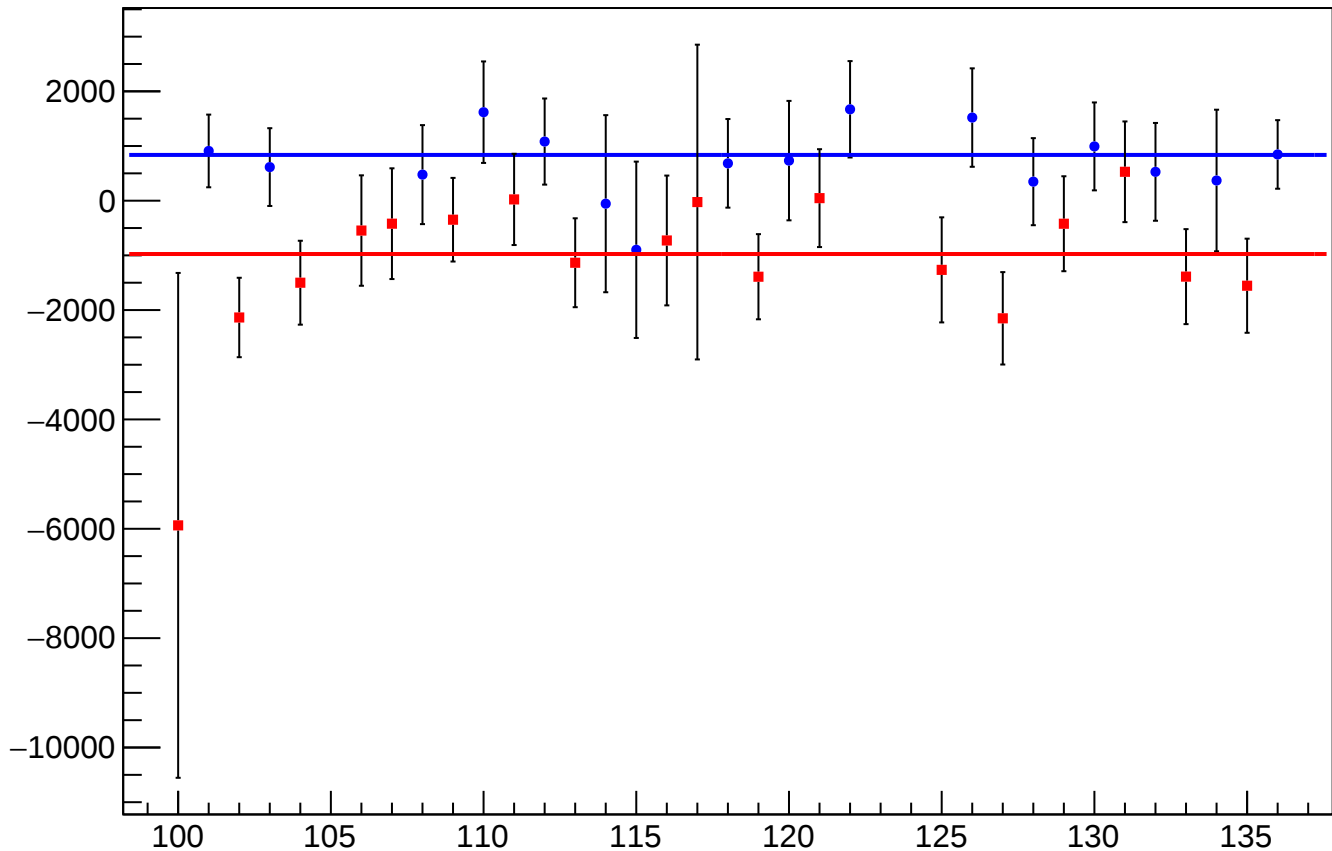
Right Out: 124.532 $\pm$ 0.034  $\chi^2$ /NDF: 578010.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

117.847 $\pm$ 0.033  $\chi^2$ /NDF: 666622.8/16

124.532 $\pm$ 0.034  $\chi^2$ /NDF: 578010.7/18

# reg\_asym\_left\_avg\_mean vs Slug



Right In: 837.048 $\pm$ 216.181  $\chi^2$ /NDF: 4.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

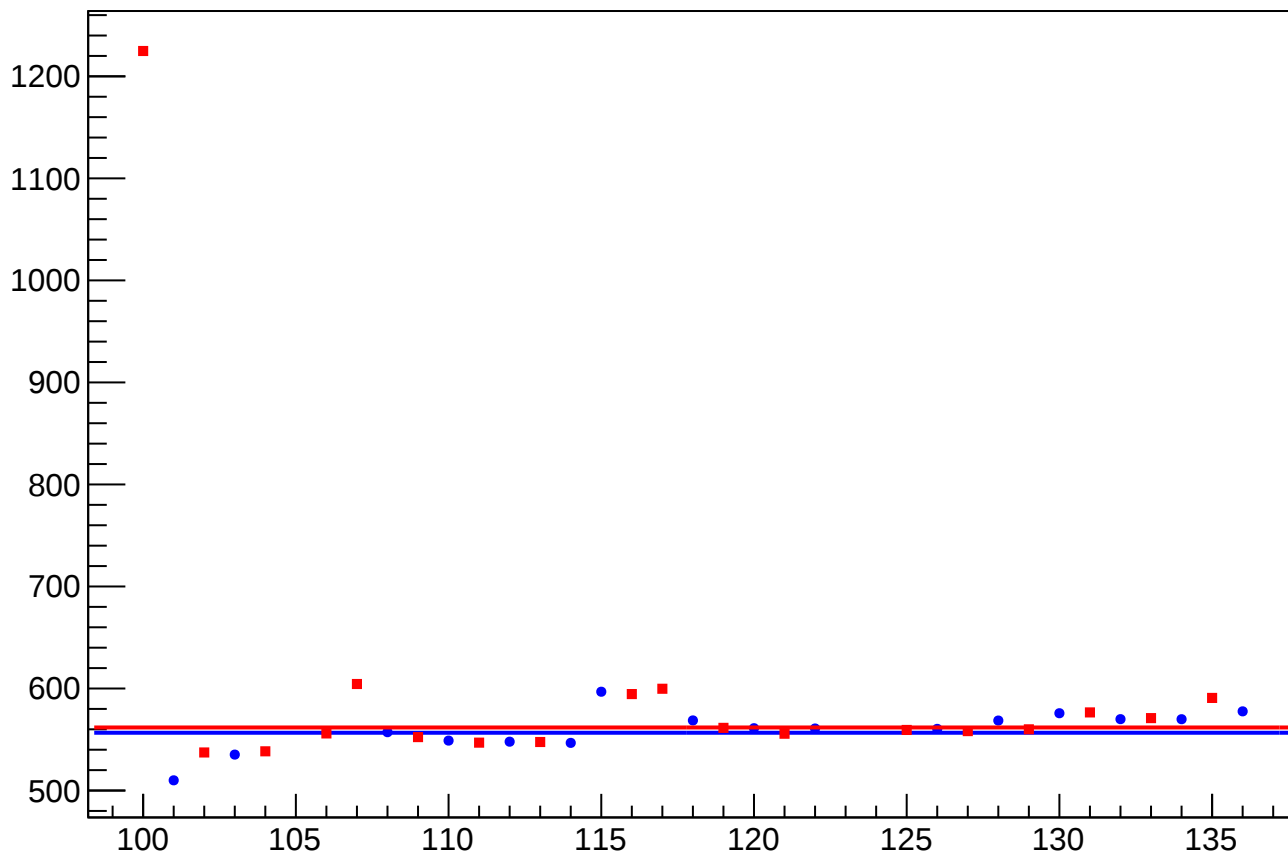
Right Out: -975.100 $\pm$ 214.910  $\chi^2$ /NDF: 14.3/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

837.048 $\pm$ 216.181  $\chi^2$ /NDF: 4.7/15

-975.100 $\pm$ 214.910  $\chi^2$ /NDF: 14.3/17

# reg\_asym\_left\_avg\_rms vs Slug



Right In: 556.637 $\pm$ 0.153  $\chi^2$ /NDF: 18391.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

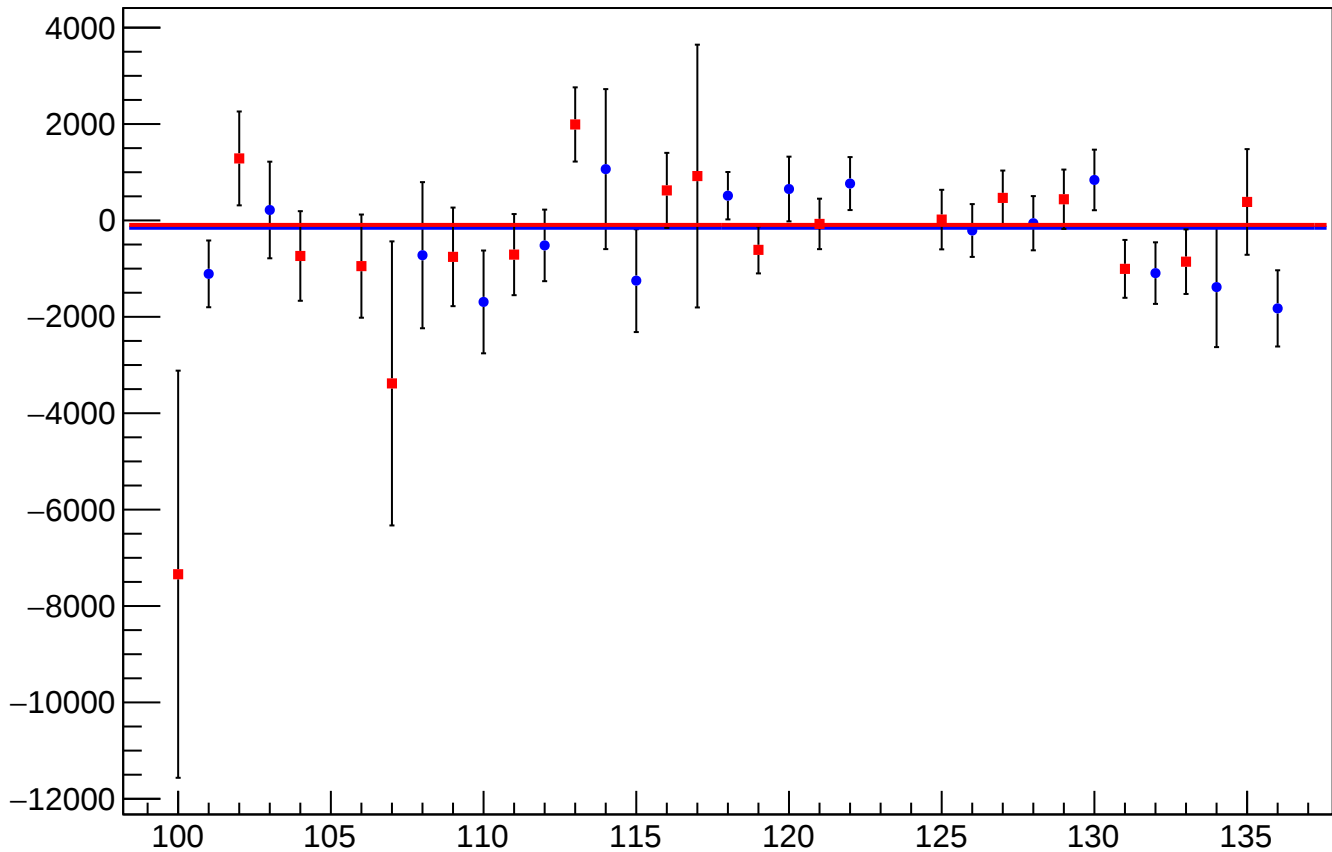
Right Out: 561.804 $\pm$ 0.152  $\chi^2$ /NDF: 55571.9/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

556.637 $\pm$ 0.153  $\chi^2$ /NDF: 18391.7/15

561.804 $\pm$ 0.152  $\chi^2$ /NDF: 55571.9/17

# asym\_left\_avg\_correction\_mean vs Slug



Right In: -151.876+/-180.078  $\chi^2$ /NDF: 22.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

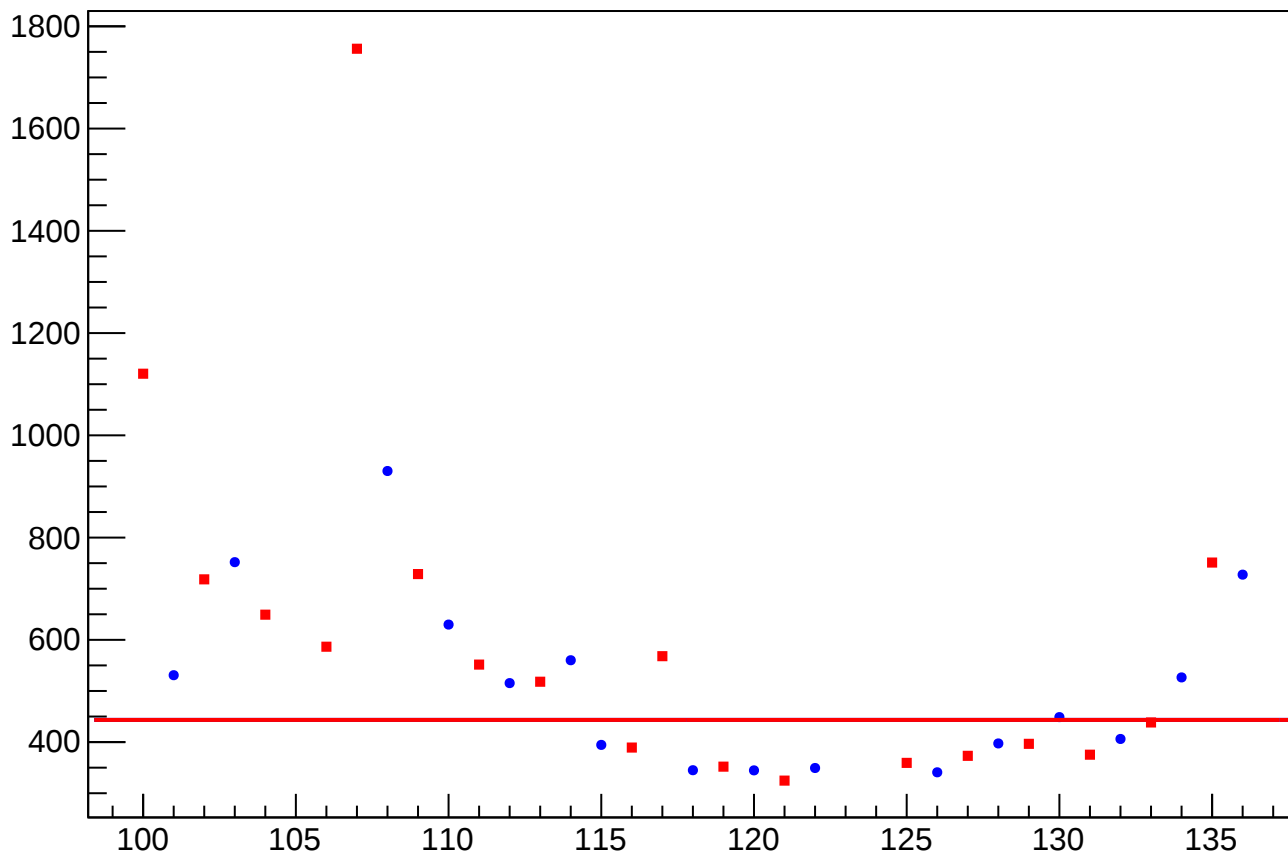
Right Out: -92.525+/-179.210  $\chi^2$ /NDF: 23.3/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-151.876+/-180.078  $\chi^2$ /NDF: 22.3/15

-92.525+/-179.210  $\chi^2$ /NDF: 23.3/17

# asym\_left\_avg\_correction\_rms vs Slug



Right In: 443.451+/-0.127  $\chi^2/\text{NDF}$ : 1060940.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

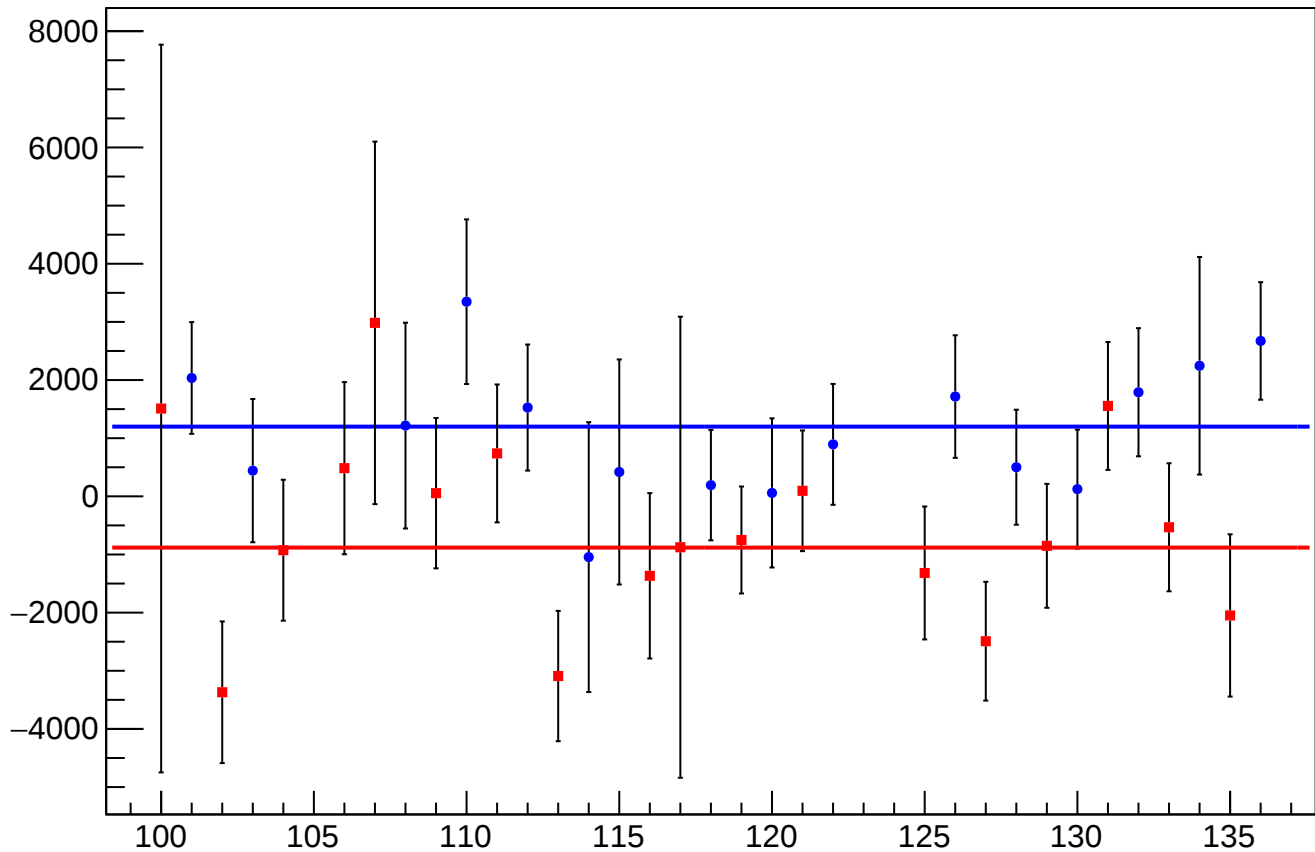
Right Out: 443.372+/-0.127  $\chi^2/\text{NDF}$ : 1398421.4/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

443.451+/-0.127  $\chi^2/\text{NDF}$ : 1060940.9/15

443.372+/-0.127  $\chi^2/\text{NDF}$ : 1398421.4/17

# asym\_left\_avg\_mean vs Slug



Right In: 1198.972 $\pm$ 295.243  $\chi^2$ /NDF: 11.2/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

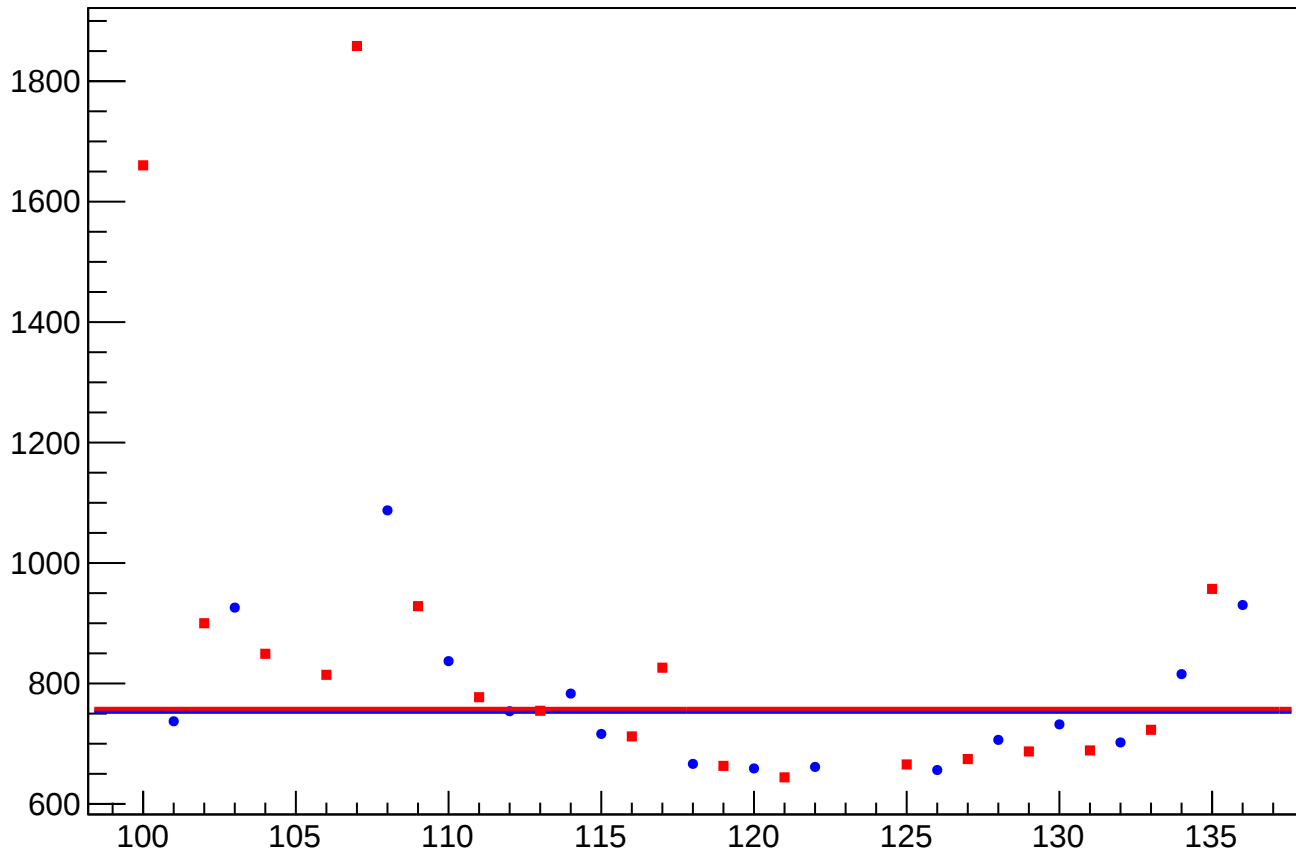
Right Out: -881.424 $\pm$ 295.102  $\chi^2$ /NDF: 22.3/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1198.972 $\pm$ 295.243  $\chi^2$ /NDF: 11.2/15

-881.424 $\pm$ 295.102  $\chi^2$ /NDF: 22.3/17

# asym\_left\_avg\_rms vs Slug



Right In: 752.937+/-0.209  $\chi^2/\text{NDF}$ : 252526.4/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

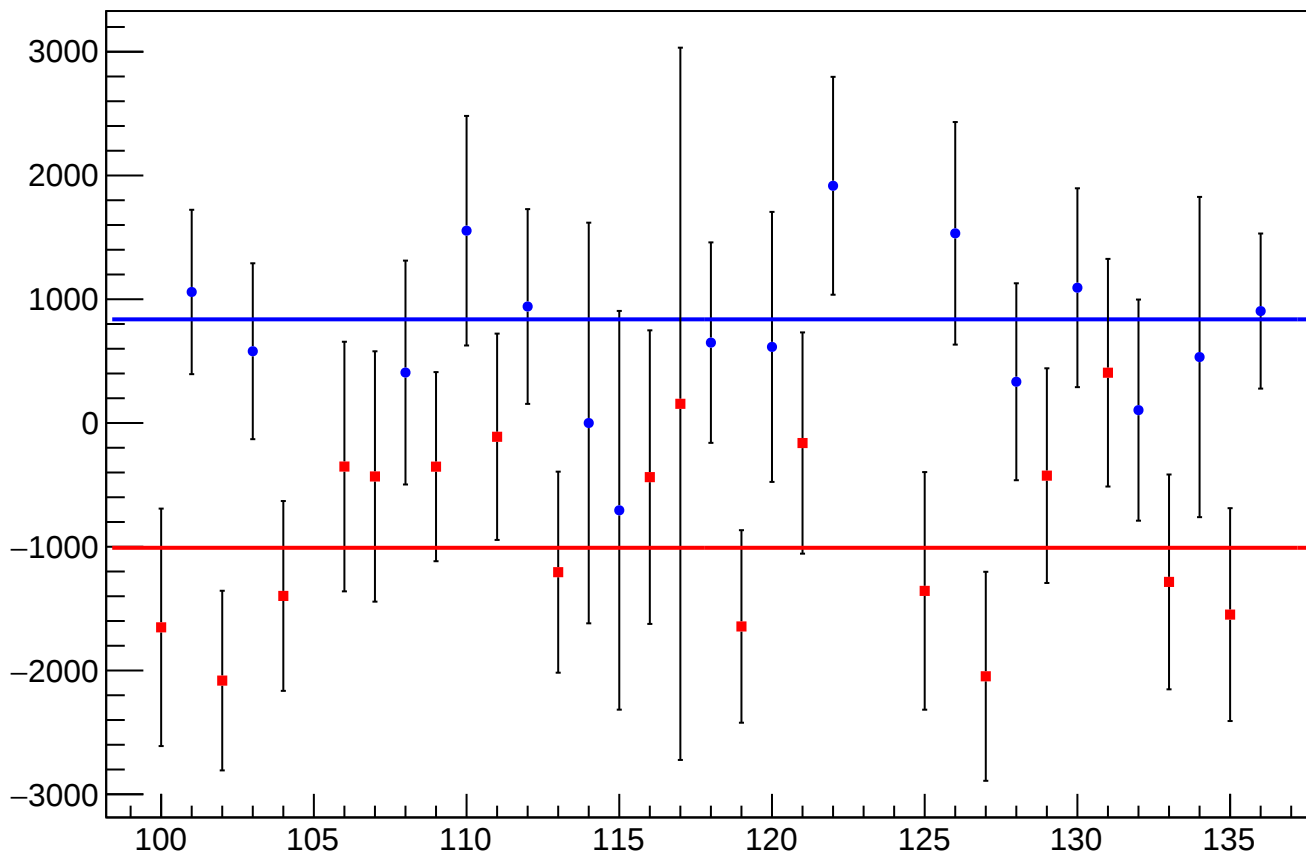
Right Out: 757.981+/-0.209  $\chi^2/\text{NDF}$ : 501374.3/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

752.937+/-0.209  $\chi^2/\text{NDF}$ : 252526.4/15

757.981+/-0.209  $\chi^2/\text{NDF}$ : 501374.3/17

# reg\_asym\_left\_dd\_mean vs Slug



Right In: 837.557+/-216.015  $\chi^2/\text{NDF}$ : 5.7/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

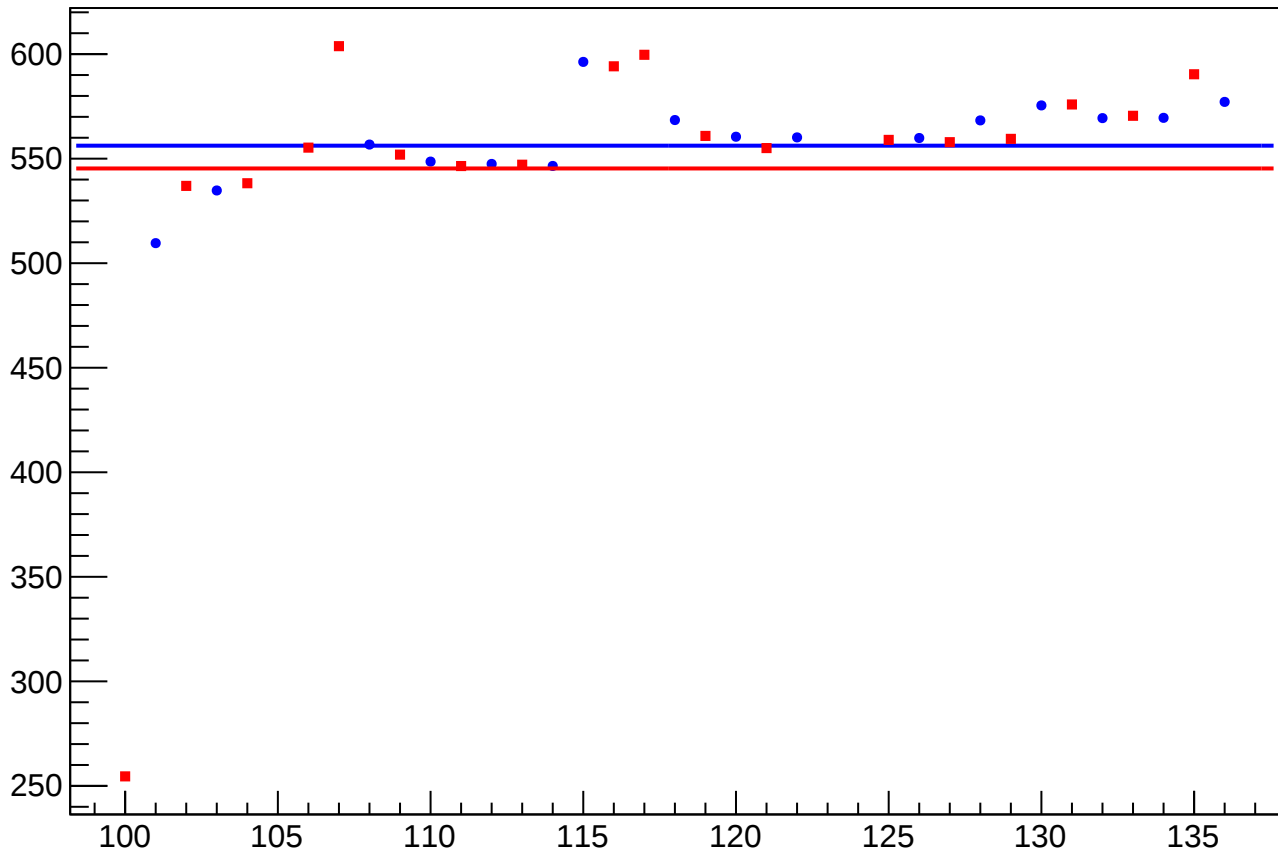
Right Out: -1008.390+/-209.766  $\chi^2/\text{NDF}$ : 12.5/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

837.557+/-216.015  $\chi^2/\text{NDF}$ : 5.7/15

-1008.390+/-209.766  $\chi^2/\text{NDF}$ : 12.5/17

# reg\_asym\_left\_dd\_rms vs Slug



Right In: 556.210 $\pm$ 0.153  $\chi^2$ /NDF: 18417.4/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

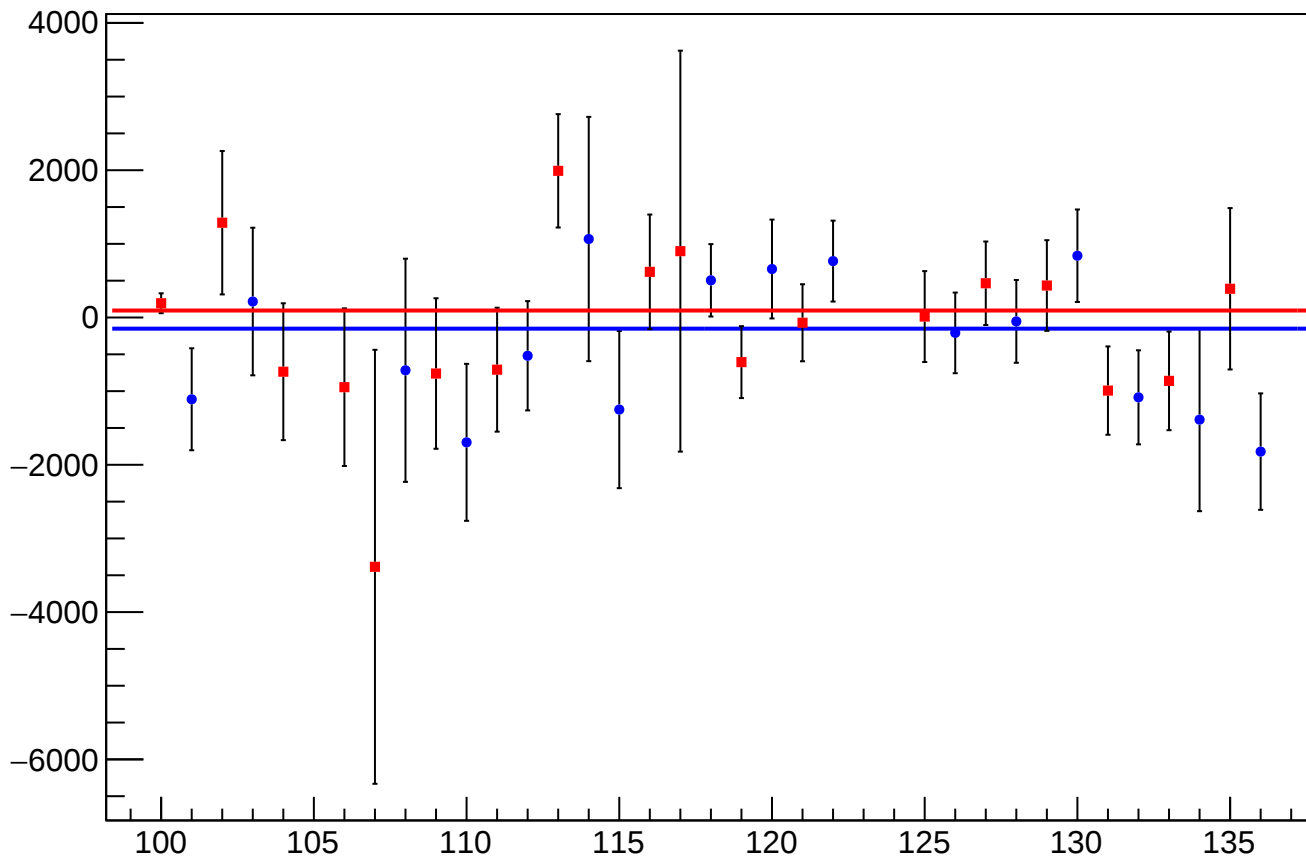
Right Out: 545.310 $\pm$ 0.148  $\chi^2$ /NDF: 207094.9/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

556.210 $\pm$ 0.153  $\chi^2$ /NDF: 18417.4/15

545.310 $\pm$ 0.148  $\chi^2$ /NDF: 207094.9/17

# asym\_left\_dd\_correction\_mean vs Slug



Right In: -151.459+/-179.991  $\chi^2$ /NDF: 22.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

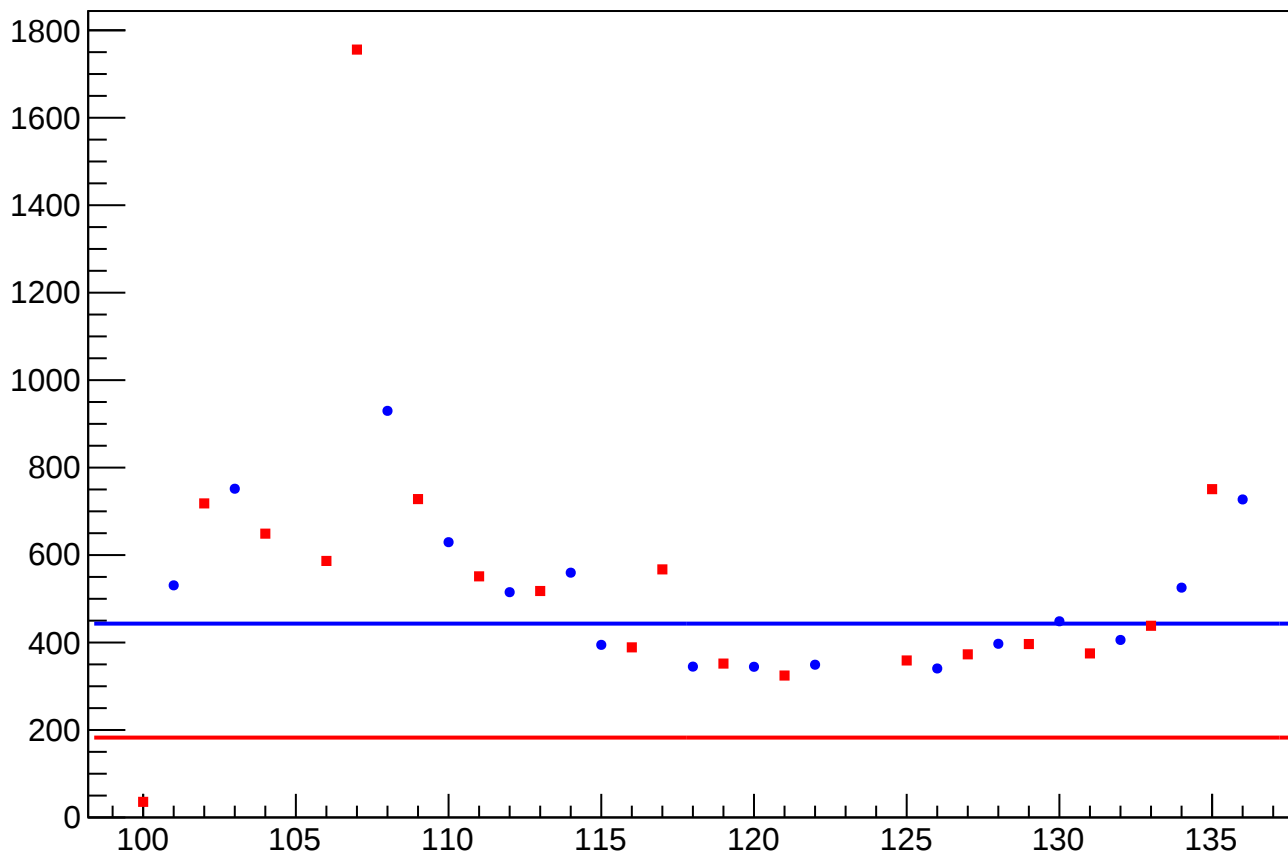
Right Out: 94.902+/-107.826  $\chi^2$ /NDF: 21.7/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-151.459+/-179.991  $\chi^2$ /NDF: 22.3/15

94.902+/-107.826  $\chi^2$ /NDF: 21.7/17

# asym\_left\_dd\_correction\_rms vs Slug



Right In: 443.240 $\pm$ 0.127  $\chi^2$ /NDF: 1060784.8/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

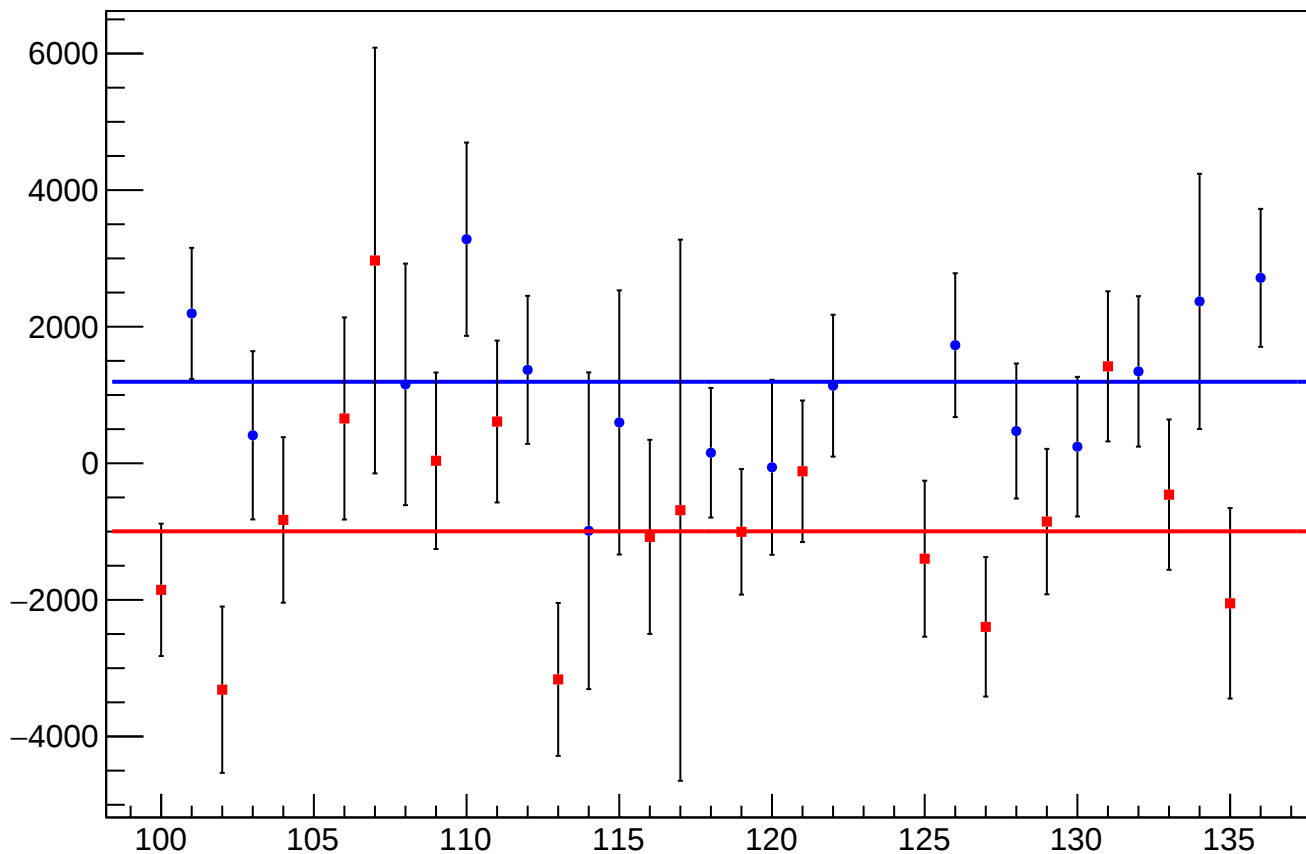
Right Out: 182.633 $\pm$ 0.076  $\chi^2$ /NDF: 7901589.6/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

443.240 $\pm$ 0.127  $\chi^2$ /NDF: 1060784.8/15

182.633 $\pm$ 0.076  $\chi^2$ /NDF: 7901589.6/17

# asym\_left\_dd\_mean vs Slug



Right In: 1193.849 $\pm$ 295.046  $\chi^2$ /NDF: 11.2/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

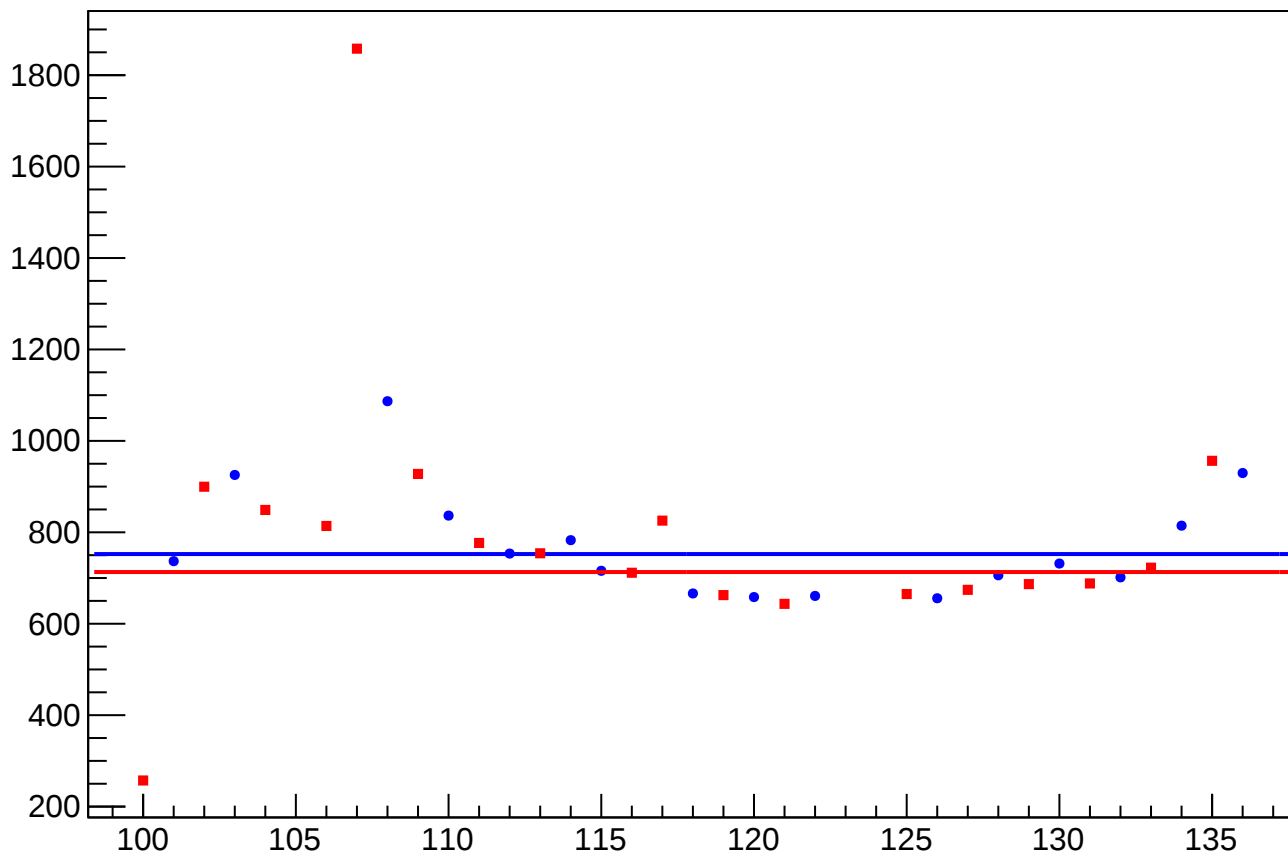
Right Out: -995.778 $\pm$ 282.408  $\chi^2$ /NDF: 21.9/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1193.849 $\pm$ 295.046  $\chi^2$ /NDF: 11.2/15

-995.778 $\pm$ 282.408  $\chi^2$ /NDF: 21.9/17

# asym\_left\_dd\_rms vs Slug



Right In: 752.429+/-0.209  $\chi^2/\text{NDF}$ : 252705.1/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

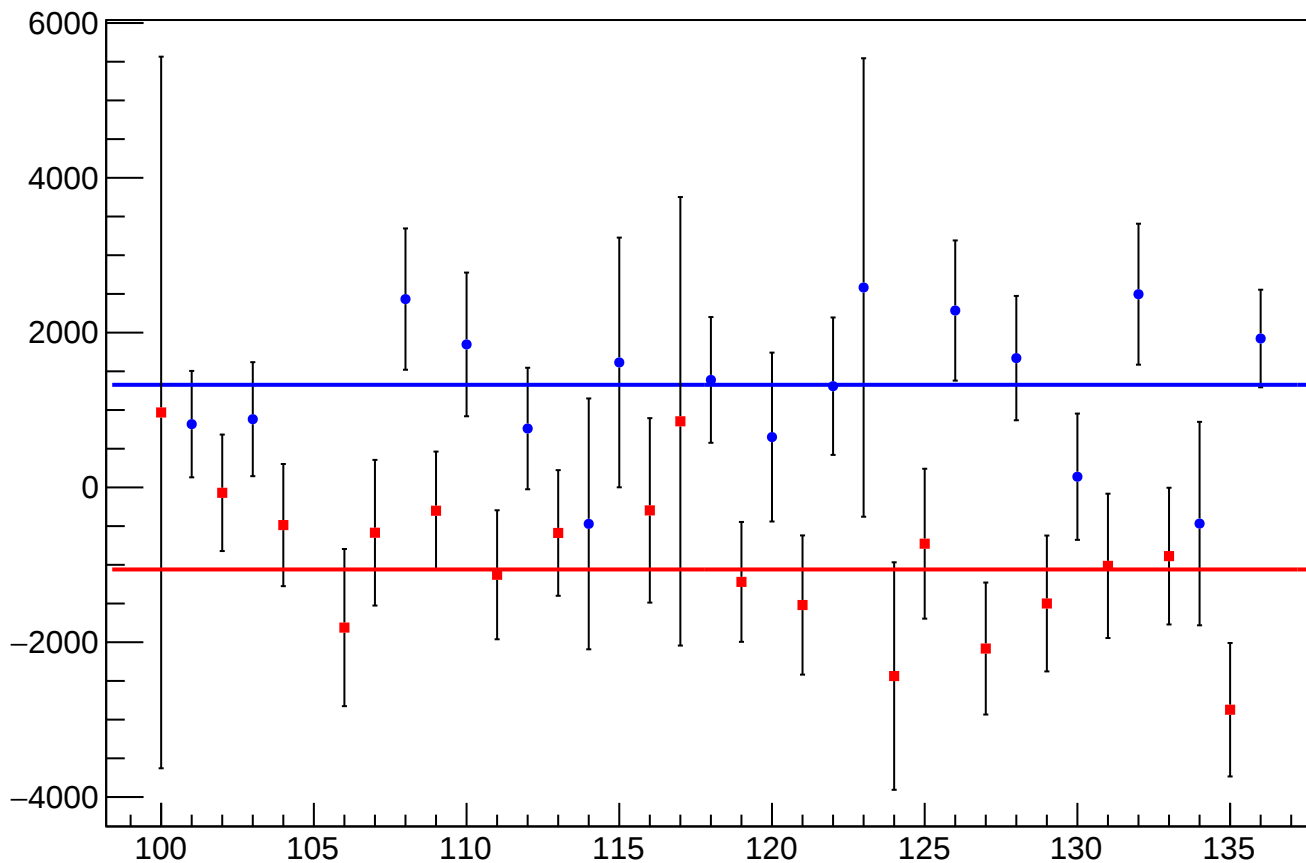
Right Out: 713.105+/-0.200  $\chi^2/\text{NDF}$ : 944054.3/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

752.429+/-0.209  $\chi^2/\text{NDF}$ : 252705.1/15

713.105+/-0.200  $\chi^2/\text{NDF}$ : 944054.3/17

# reg\_asym\_right\_avg\_mean vs Slug



Right In: 1325.776+/-218.106  $\chi^2/\text{NDF}$ : 12.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

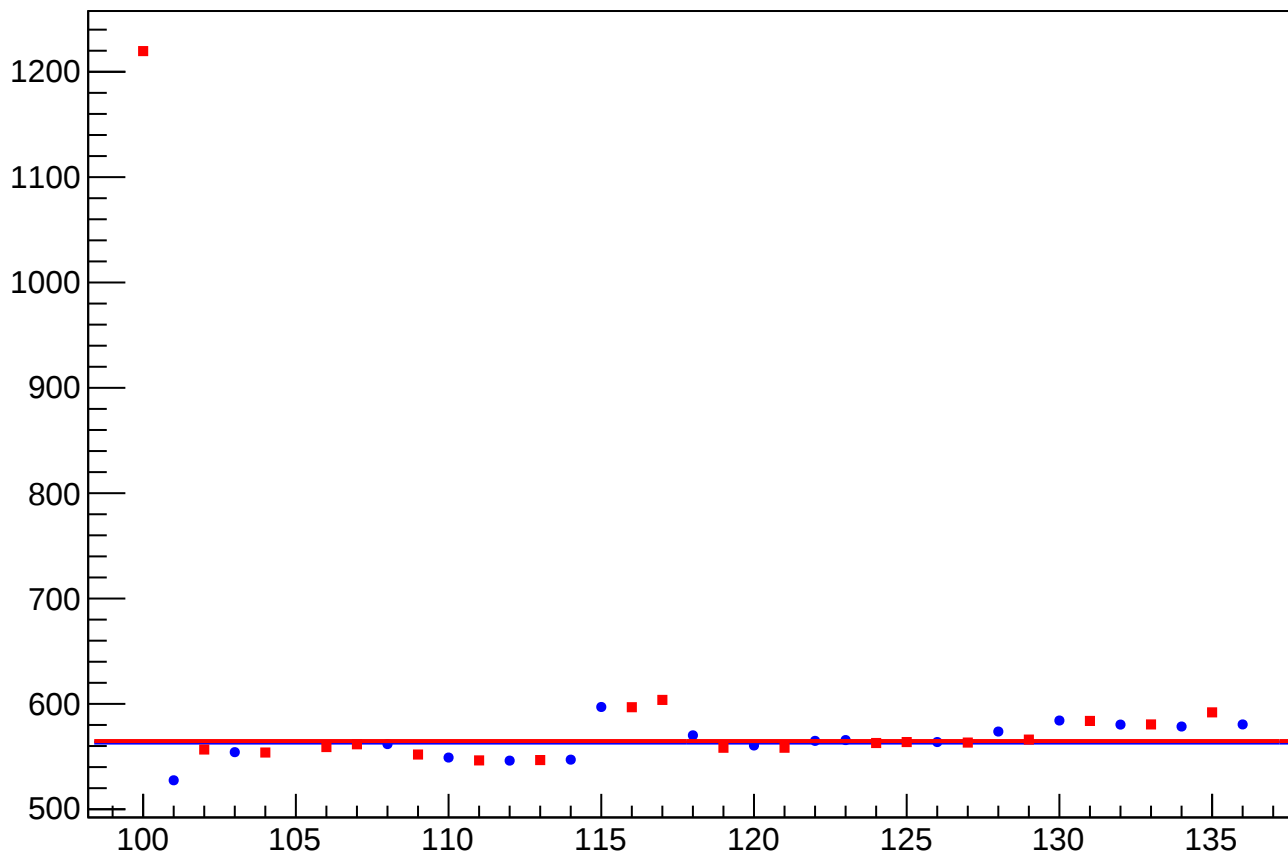
Right Out: -1060.008+/-213.700  $\chi^2/\text{NDF}$ : 12.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1325.776+/-218.106  $\chi^2/\text{NDF}$ : 12.9/16

-1060.008+/-213.700  $\chi^2/\text{NDF}$ : 12.9/18

# reg\_asym\_right\_avg\_rms vs Slug



Right In: 563.266+/-0.154     $\chi^2/\text{NDF}$ : 12520.3/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

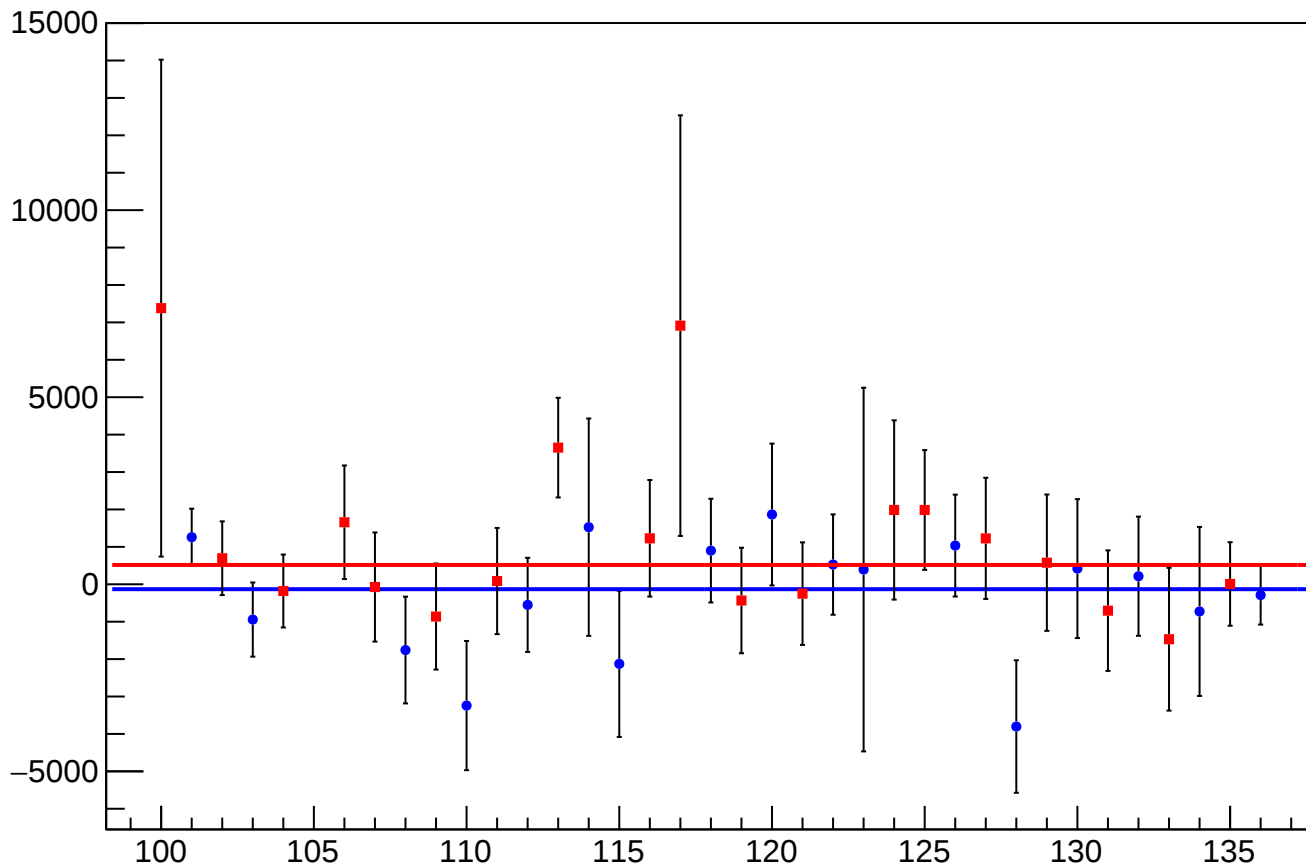
Right Out: 564.732+/-0.151     $\chi^2/\text{NDF}$ : 49345.8/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

563.266+/-0.154     $\chi^2/\text{NDF}$ : 12520.3/16

564.732+/-0.151     $\chi^2/\text{NDF}$ : 49345.8/18

# asym\_right\_avg\_correction\_mean vs Slug



Right In: -131.097+/-327.588  $\chi^2/\text{NDF}$ : 17.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

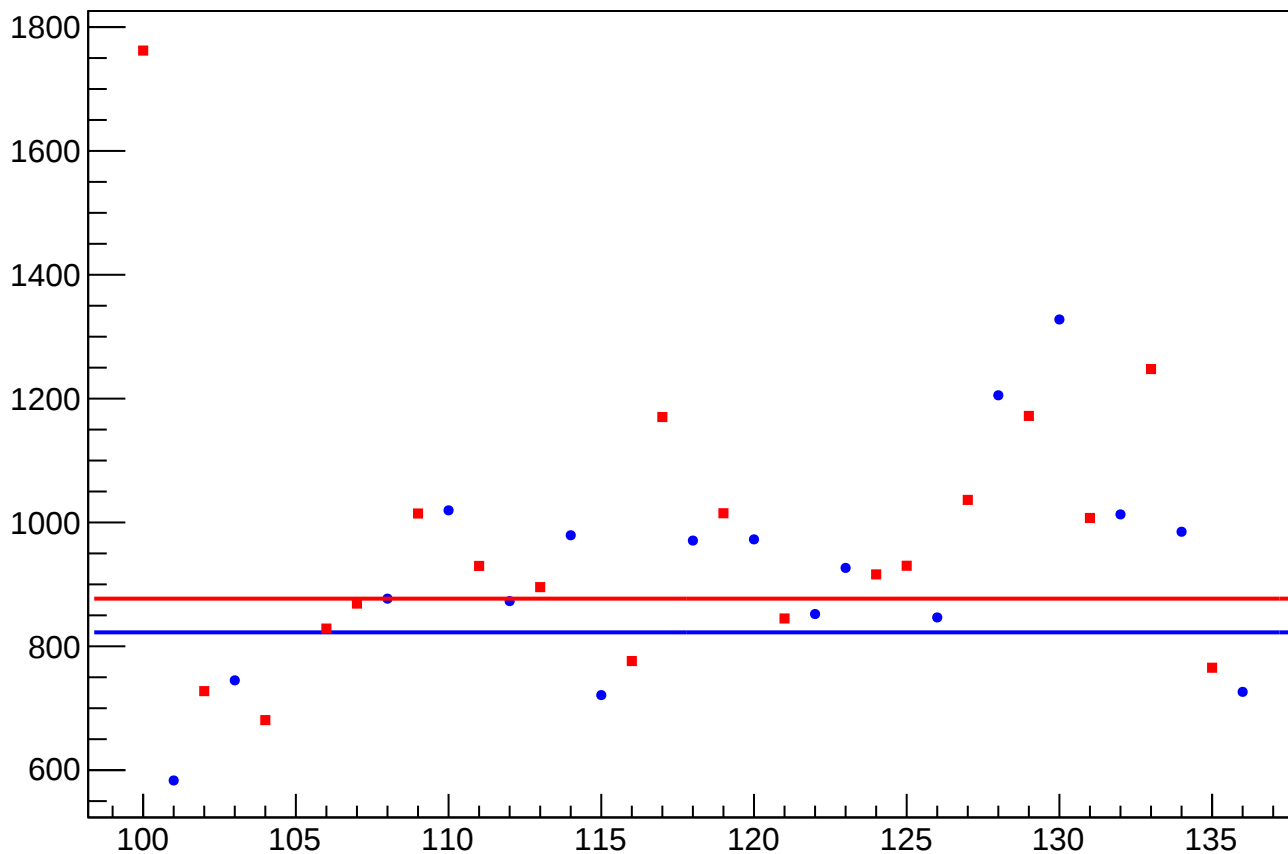
Right Out: 516.446+/-337.972  $\chi^2/\text{NDF}$ : 14.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-131.097+/-327.588  $\chi^2/\text{NDF}$ : 17.2/16

516.446+/-337.972  $\chi^2/\text{NDF}$ : 14.5/18

# asym\_right\_avg\_correction\_rms vs Slug



Right In: 822.527+/-0.232  $\chi^2/\text{NDF}$ : 600956.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

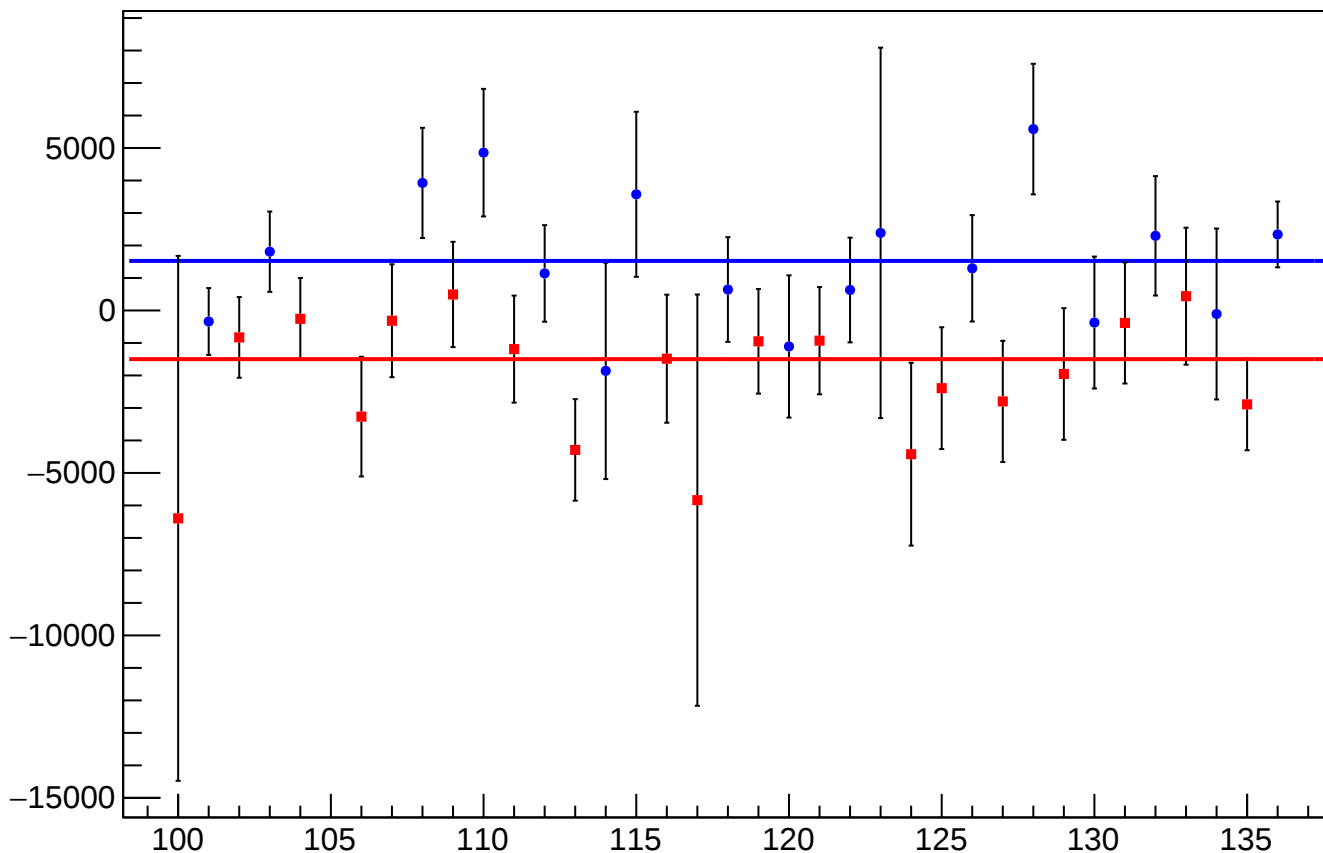
Right Out: 876.975+/-0.239  $\chi^2/\text{NDF}$ : 403682.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

822.527+/-0.232  $\chi^2/\text{NDF}$ : 600956.1/16

876.975+/-0.239  $\chi^2/\text{NDF}$ : 403682.9/18

# asym\_right\_avg\_mean vs Slug



Right In: 1525.470 $\pm$ 401.784  $\chi^2$ /NDF: 18.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

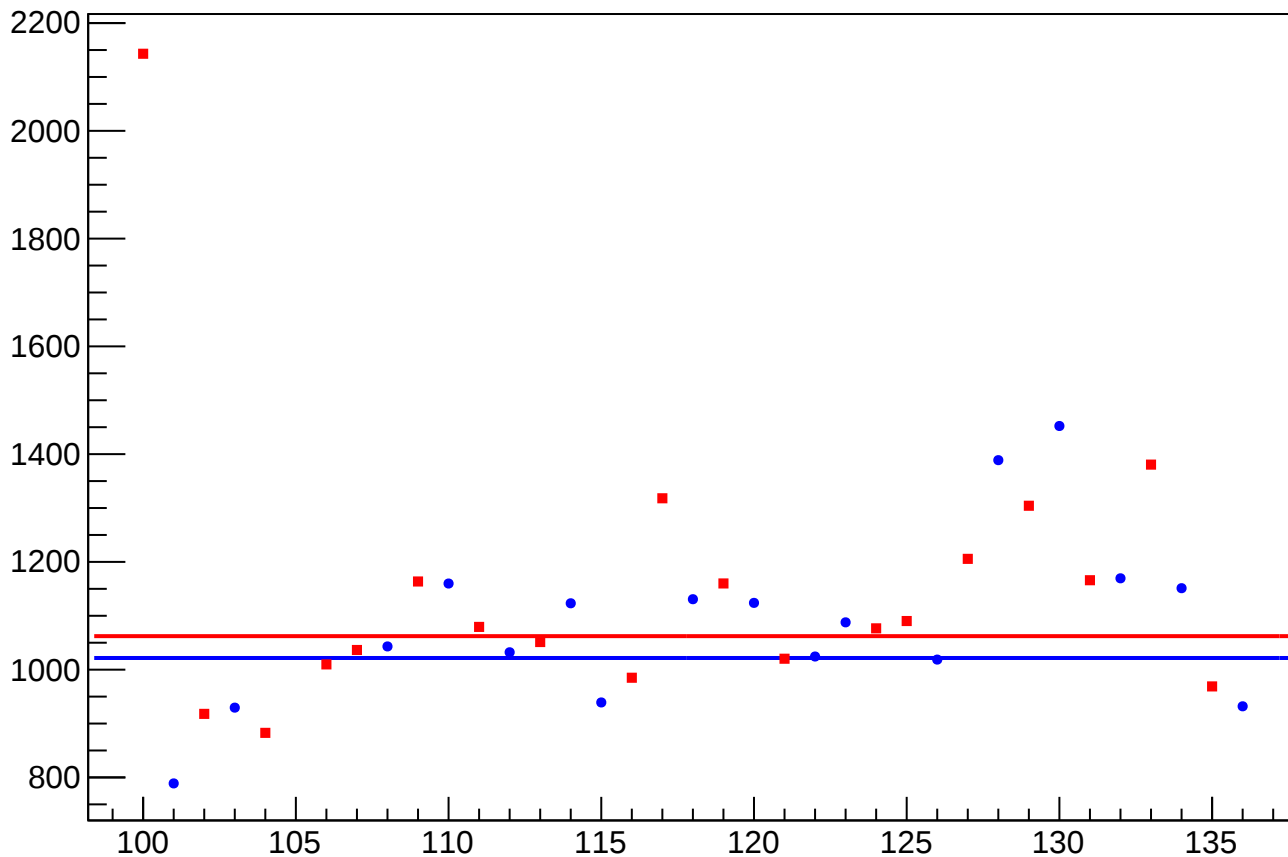
Right Out: -1497.373 $\pm$ 405.868  $\chi^2$ /NDF: 12.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1525.470 $\pm$ 401.784  $\chi^2$ /NDF: 18.2/16

-1497.373 $\pm$ 405.868  $\chi^2$ /NDF: 12.5/18

# asym\_right\_avg\_rms vs Slug



Right In: 1021.665 $\pm$ 0.284  $\chi^2$ /NDF: 331949.3/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

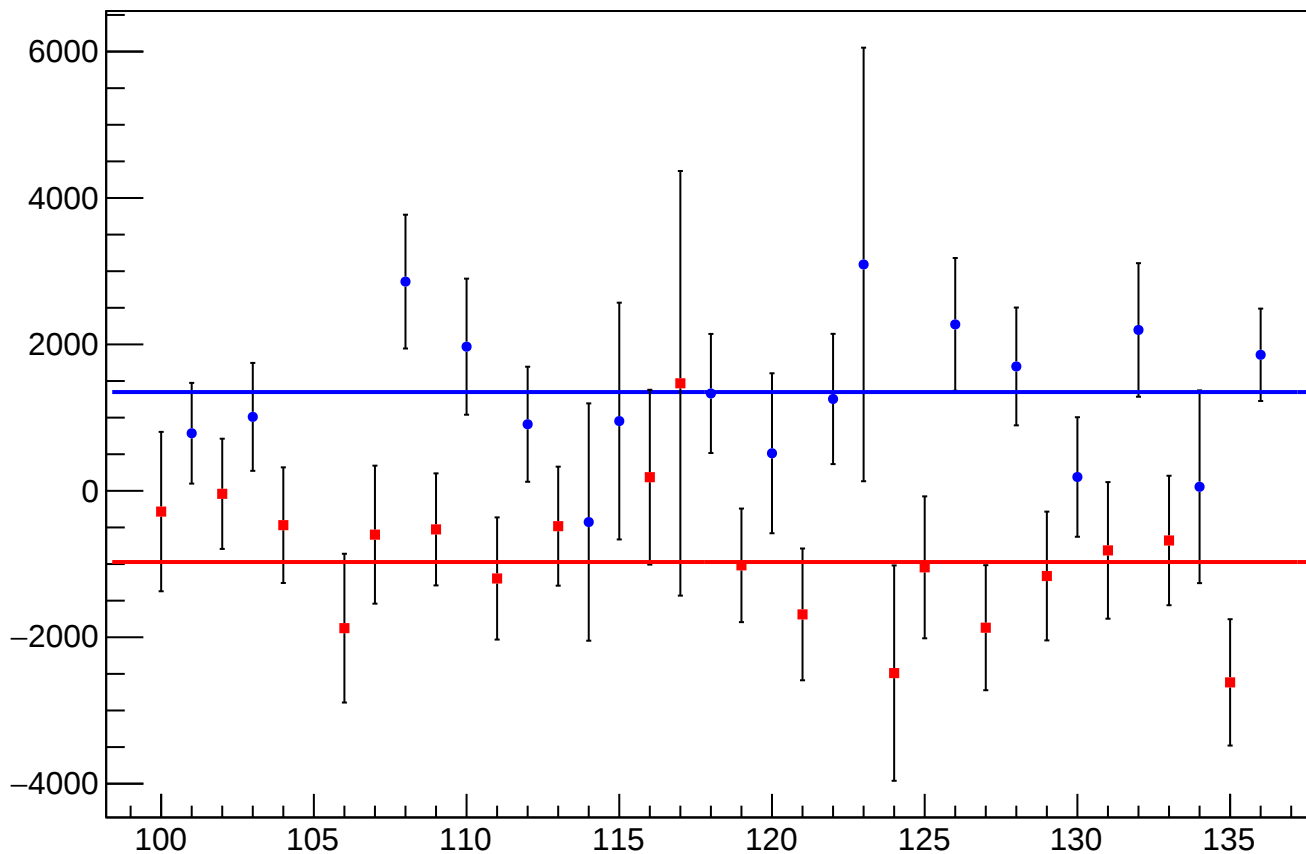
Right Out: 1062.201 $\pm$ 0.287  $\chi^2$ /NDF: 229990.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1021.665 $\pm$ 0.284  $\chi^2$ /NDF: 331949.3/16

1062.201 $\pm$ 0.287  $\chi^2$ /NDF: 229990.6/18

# reg\_asym\_right\_dd\_mean vs Slug



Right In: 1349.156+/-218.361  $\chi^2$ /NDF: 12.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

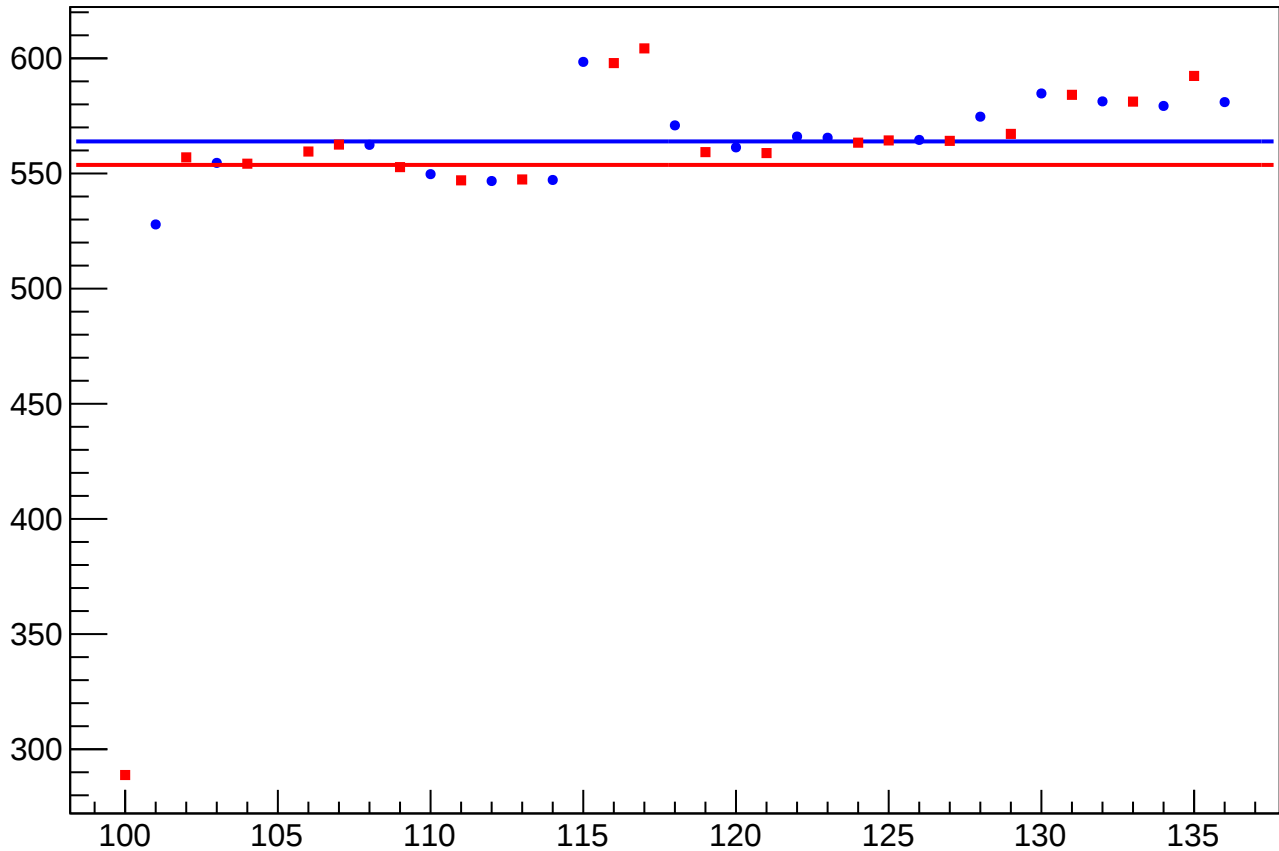
Right Out: -972.370+/-210.152  $\chi^2$ /NDF: 12.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1349.156+/-218.361  $\chi^2$ /NDF: 12.3/16

-972.370+/-210.152  $\chi^2$ /NDF: 12.3/18

# reg\_asym\_right\_dd\_rms vs Slug



Right In: 563.922 $\pm$ 0.154  $\chi^2$ /NDF: 12663.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

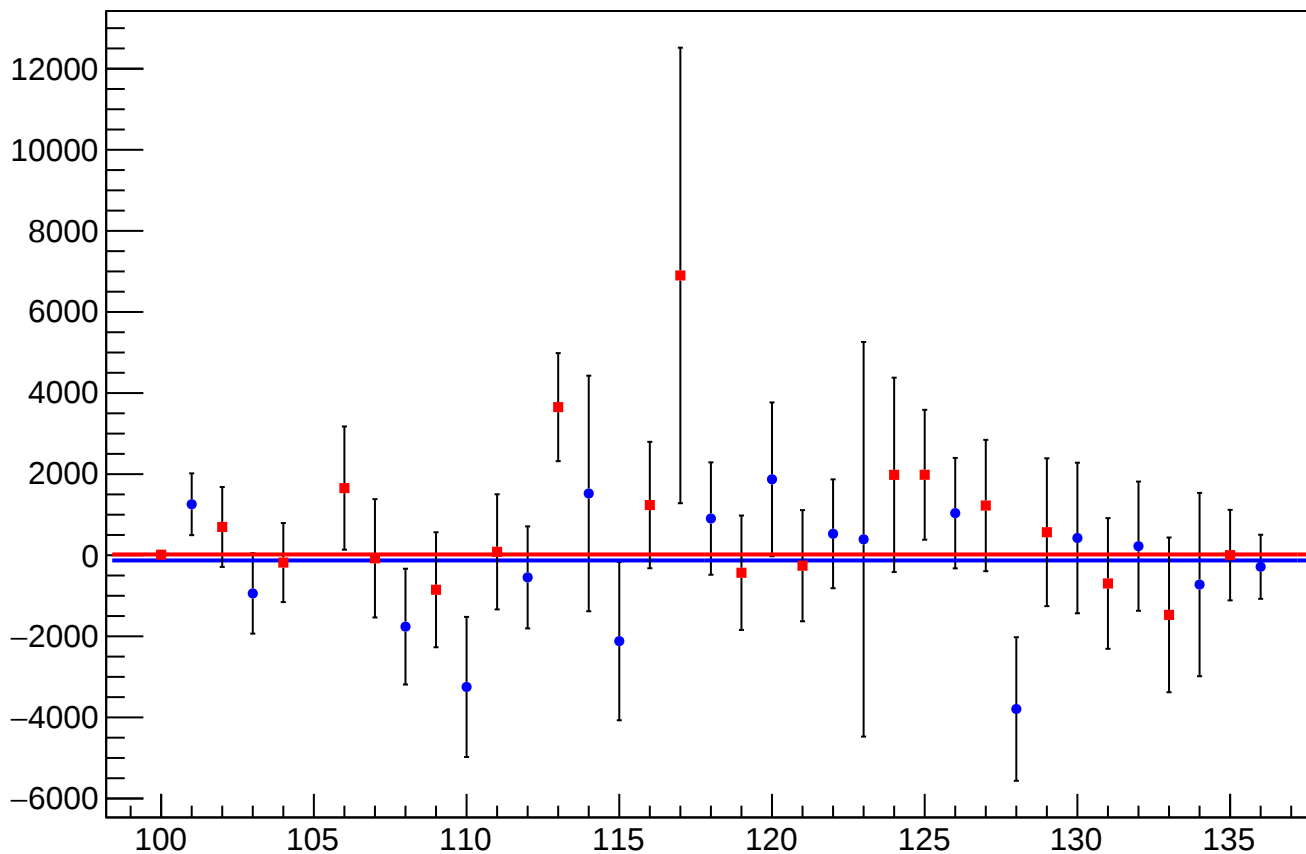
563.922 $\pm$ 0.154  $\chi^2$ /NDF: 12663.1/16

Right Out: 553.718 $\pm$ 0.149  $\chi^2$ /NDF: 131681.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

553.718 $\pm$ 0.149  $\chi^2$ /NDF: 131681.7/18

# asym\_right\_dd\_correction\_mean vs Slug



Right In: -128.725+/-327.688  $\chi^2$ /NDF: 17.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

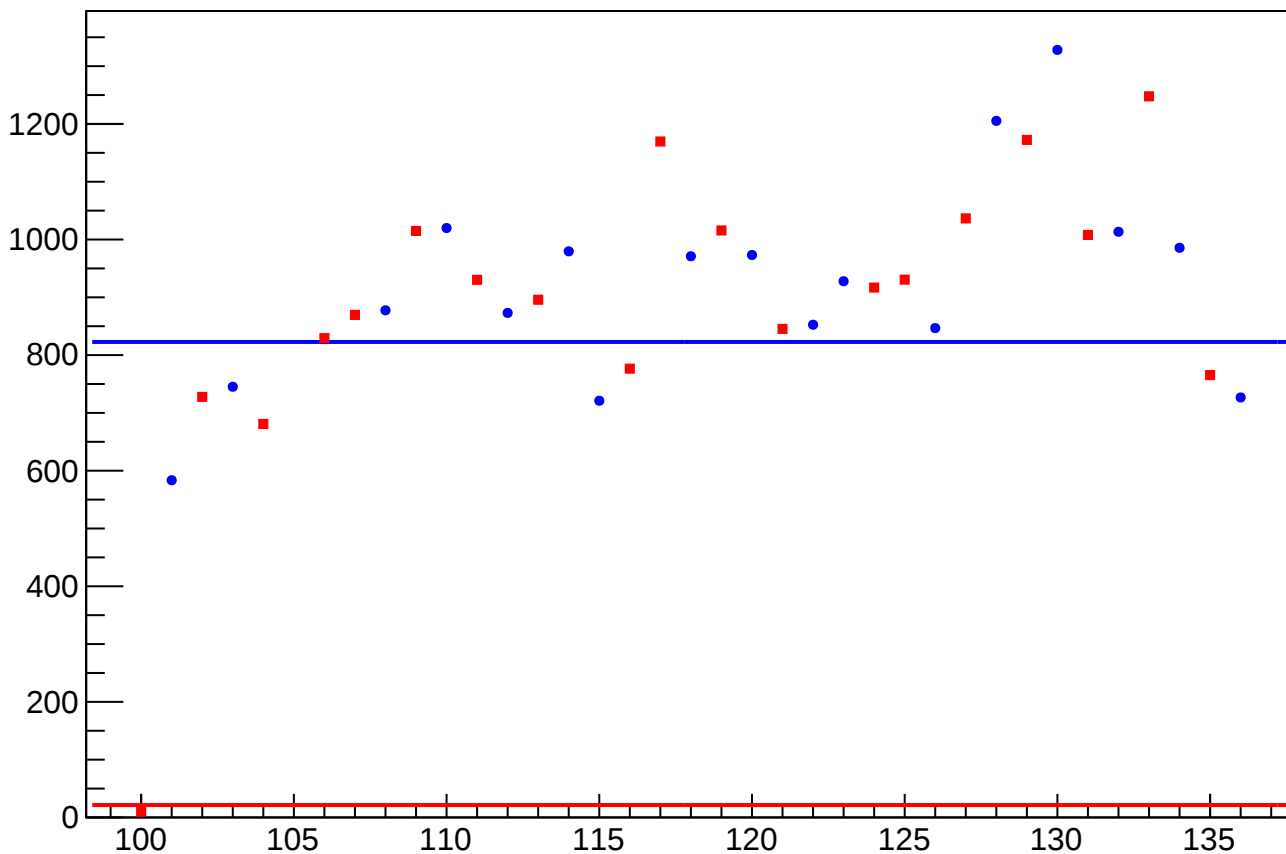
Right Out: 19.427+/-38.963  $\chi^2$ /NDF: 15.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-128.725+/-327.688  $\chi^2$ /NDF: 17.2/16

19.427+/-38.963  $\chi^2$ /NDF: 15.4/18

# asym\_right\_dd\_correction\_rms vs Slug



Right In: 822.780 $\pm$ 0.232  $\chi^2$ /NDF: 600873.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

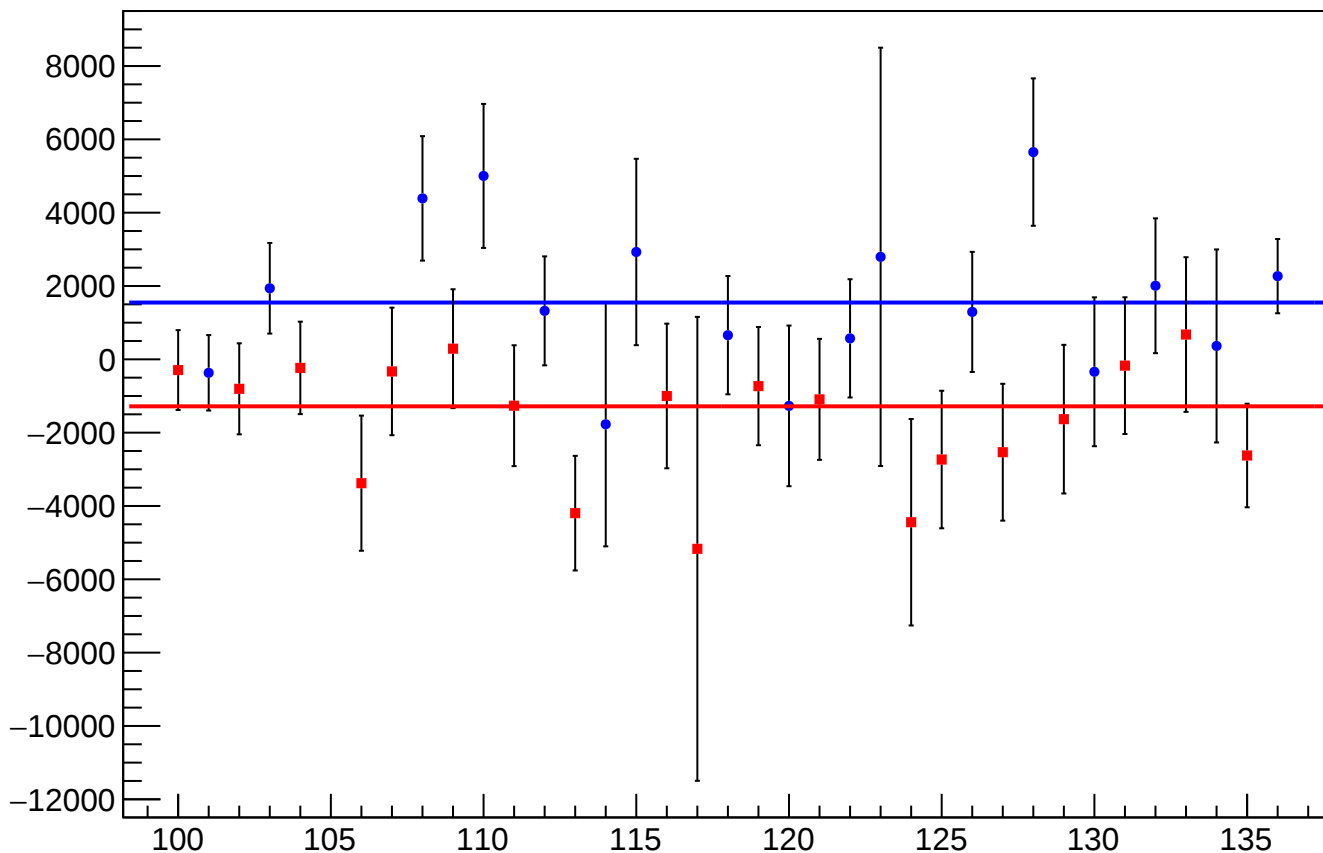
Right Out: 21.501 $\pm$ 0.028  $\chi^2$ /NDF: 13251250.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

822.780 $\pm$ 0.232  $\chi^2$ /NDF: 600873.9/16

21.501 $\pm$ 0.028  $\chi^2$ /NDF: 13251250.8/18

# asym\_right\_dd\_mean vs Slug



Right In: 1548.873+/-402.008  $\chi^2$ /NDF: 19.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

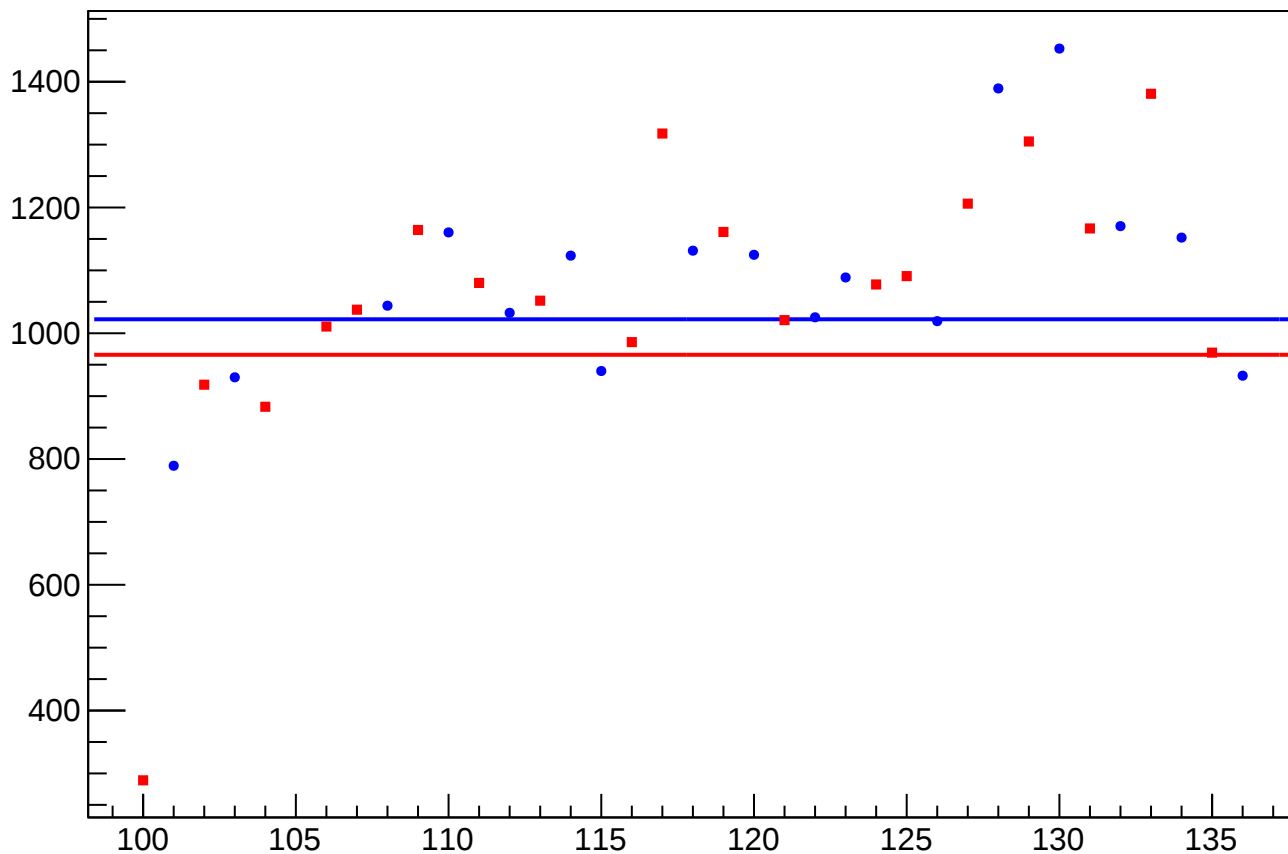
Right Out: -1281.735+/-380.943  $\chi^2$ /NDF: 12.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1548.873+/-402.008  $\chi^2$ /NDF: 19.0/16

-1281.735+/-380.943  $\chi^2$ /NDF: 12.7/18

# asym\_right\_dd\_rms vs Slug



Right In: 1022.241+/-0.284  $\chi^2/\text{NDF}$ : 331865.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

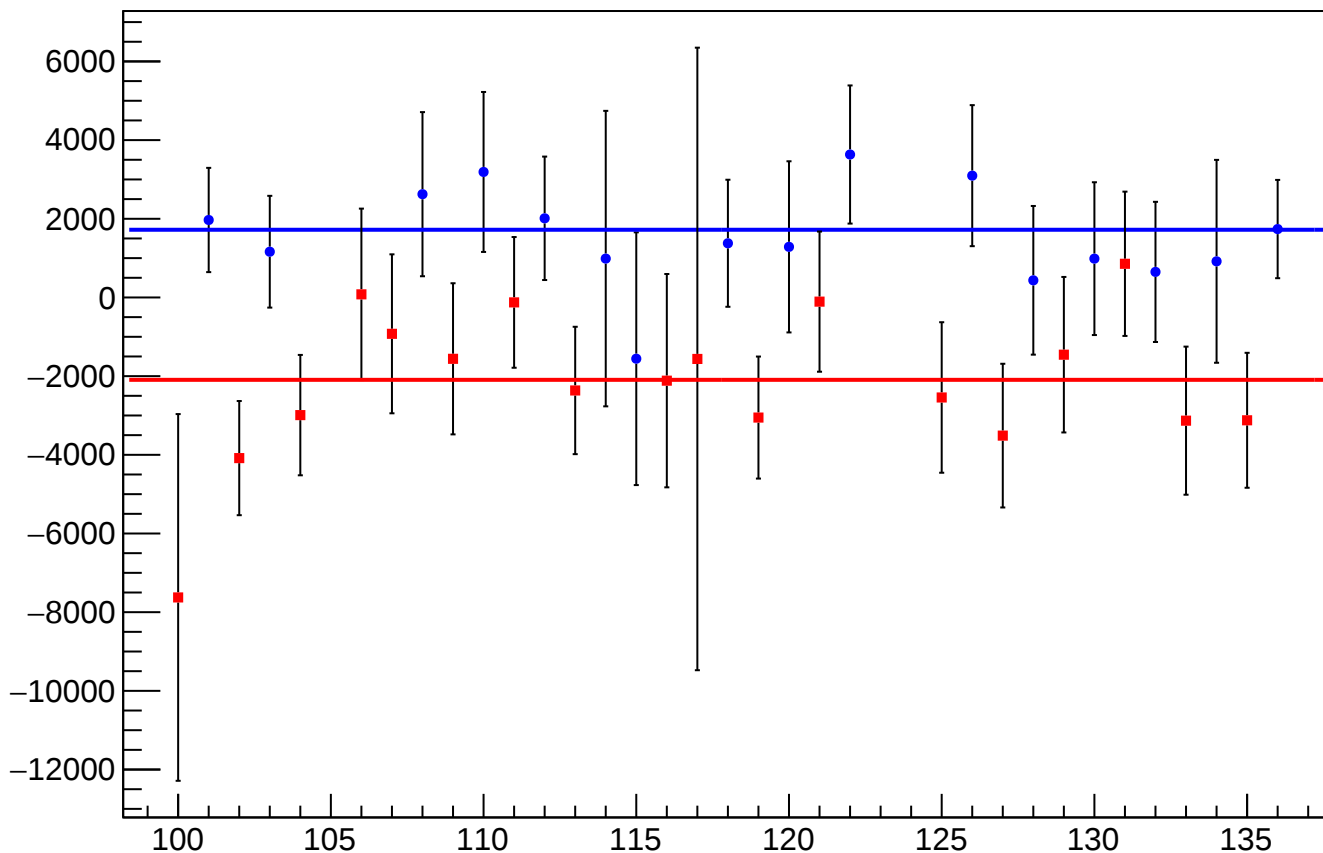
Right Out: 965.790+/-0.269  $\chi^2/\text{NDF}$ : 1073474.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1022.241+/-0.284  $\chi^2/\text{NDF}$ : 331865.9/16

965.790+/-0.269  $\chi^2/\text{NDF}$ : 1073474.7/18

# cor\_usl\_mean vs Slug



Right In: 1721.159+/-447.545  $\chi^2/\text{NDF}$ : 4.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

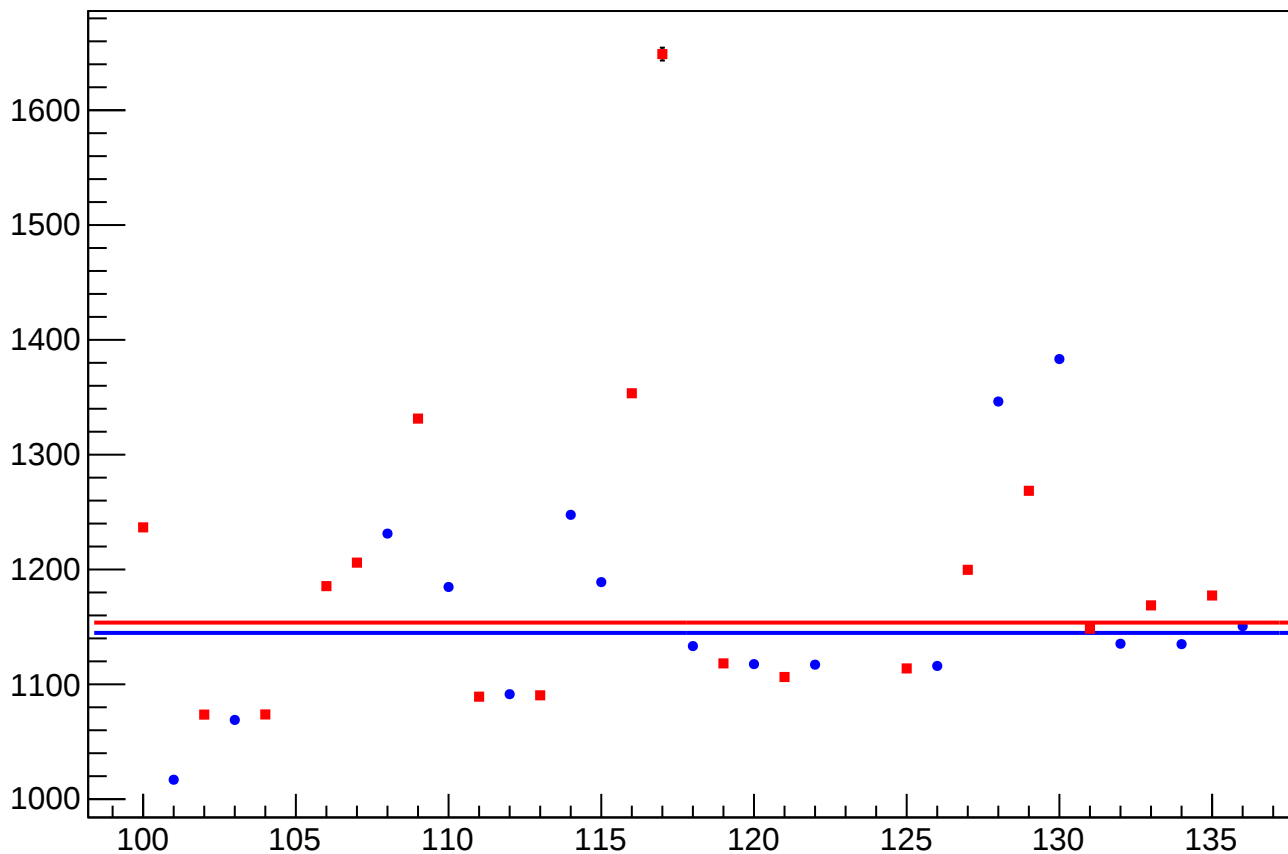
Right Out: -2093.811+/-445.014  $\chi^2/\text{NDF}$ : 12.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1721.159+/-447.545  $\chi^2/\text{NDF}$ : 4.9/15

-2093.811+/-445.014  $\chi^2/\text{NDF}$ : 12.1/17

# cor\_usl\_rms vs Slug



Right In: 1144.785+/-0.316  $\chi^2/\text{NDF}$ : 87182.5/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

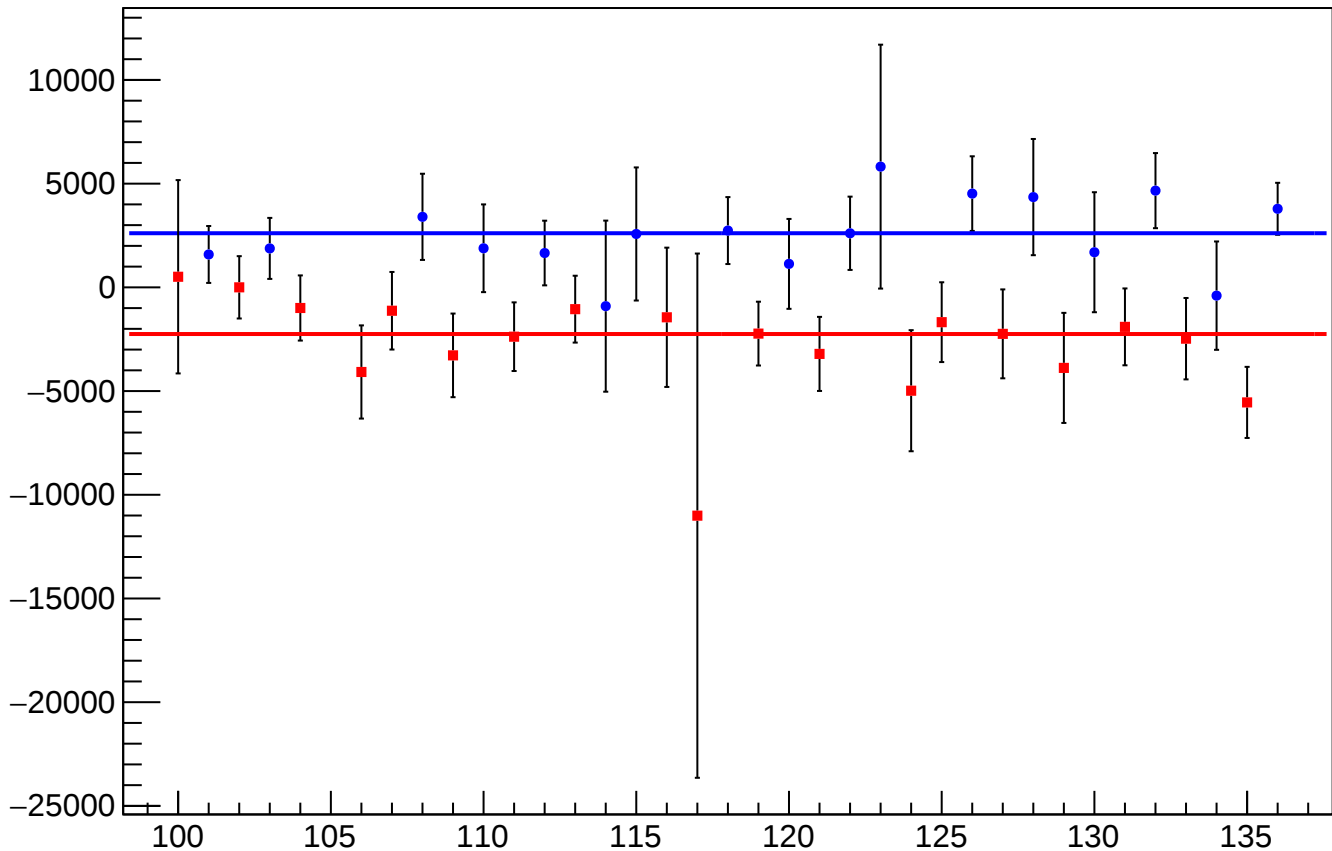
Right Out: 1153.761+/-0.315  $\chi^2/\text{NDF}$ : 67695.5/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1144.785+/-0.316  $\chi^2/\text{NDF}$ : 87182.5/15

1153.761+/-0.315  $\chi^2/\text{NDF}$ : 67695.5/17

# cor\_usr\_mean vs Slug



Right In: 2609.909 $\pm$ 465.873  $\chi^2$ /NDF: 8.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

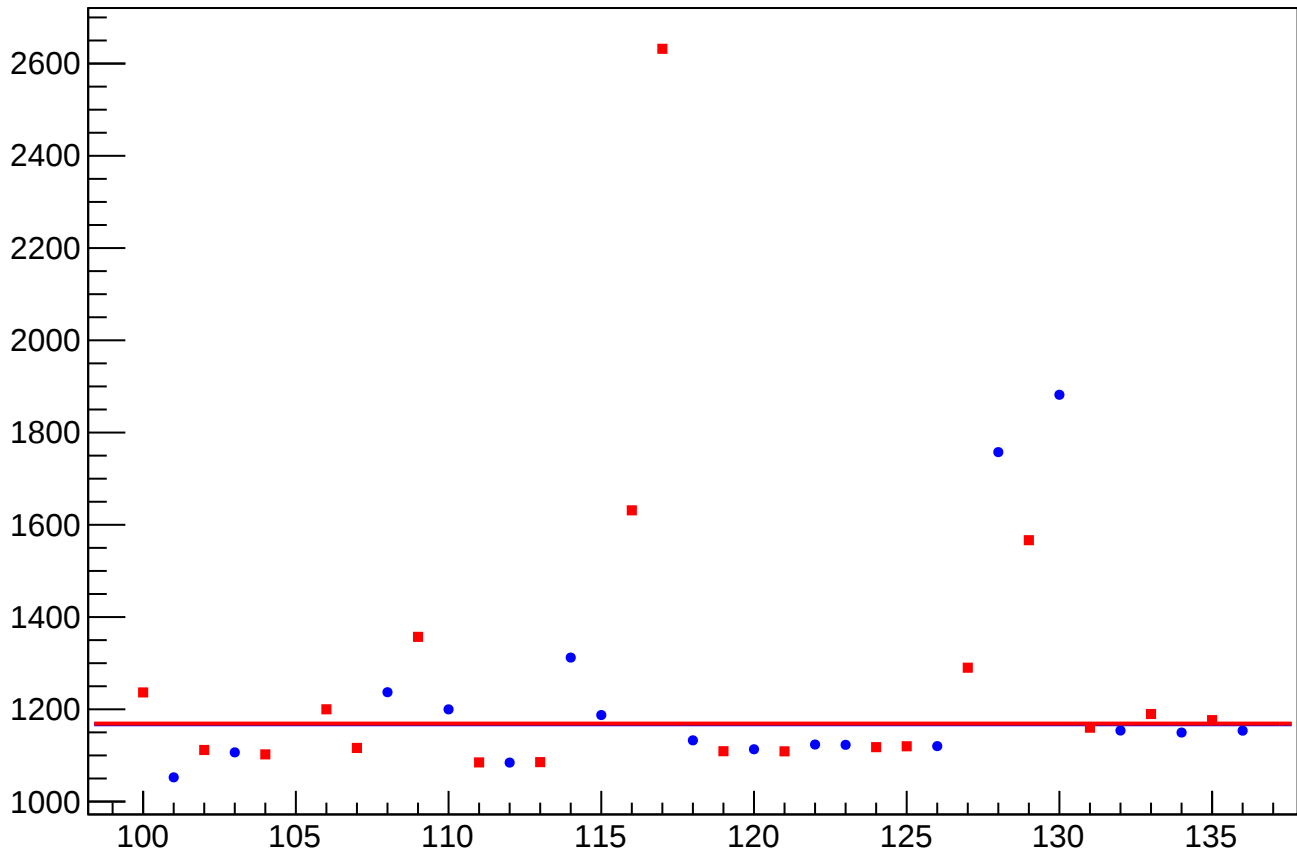
2609.909 $\pm$ 465.873  $\chi^2$ /NDF: 8.1/16

Right Out: -2249.642 $\pm$ 454.344  $\chi^2$ /NDF: 11.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-2249.642 $\pm$ 454.344  $\chi^2$ /NDF: 11.0/18

# cor\_usr\_rms vs Slug



Right In: 1167.625 $\pm$ 0.329  $\chi^2$ /NDF: 244461.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

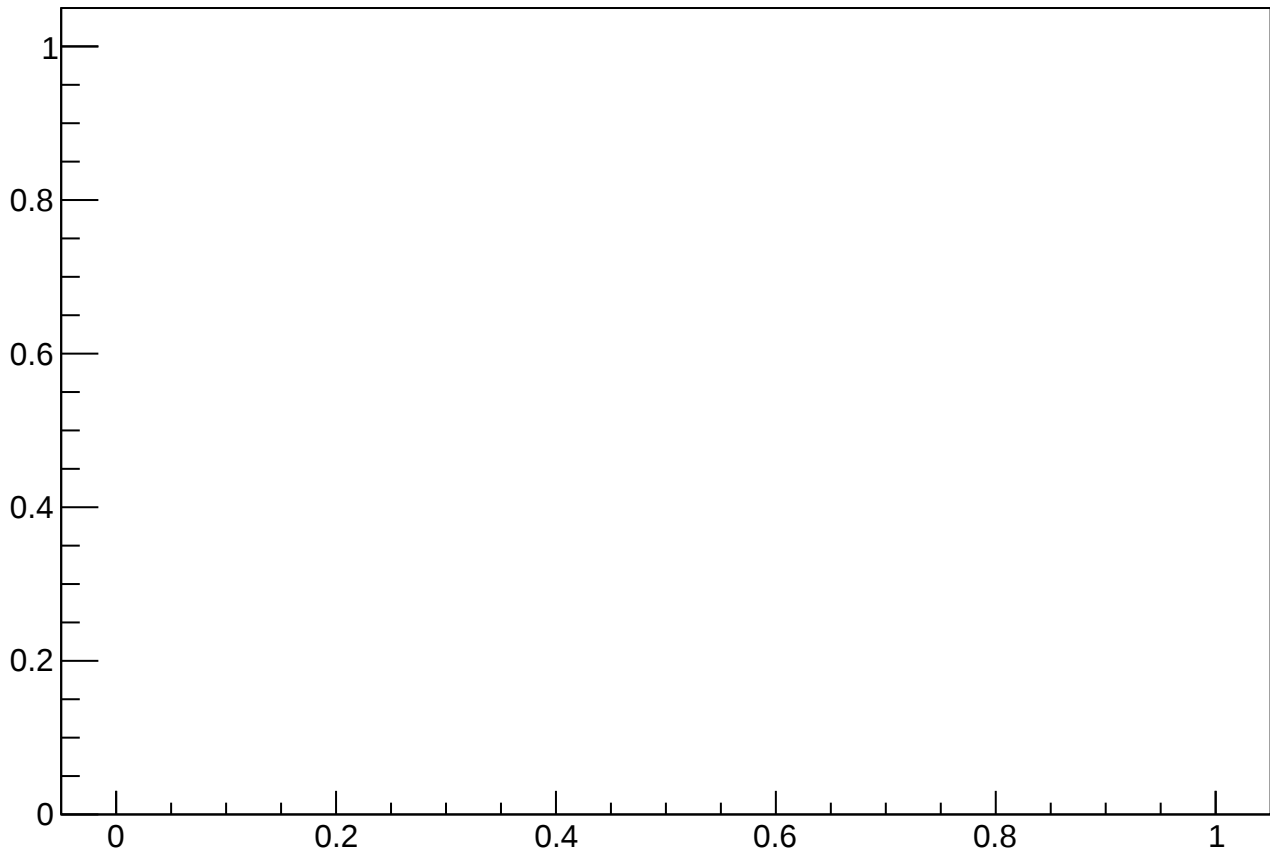
Right Out: 1169.056 $\pm$ 0.321  $\chi^2$ /NDF: 160401.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1167.625 $\pm$ 0.329  $\chi^2$ /NDF: 244461.7/16

1169.056 $\pm$ 0.321  $\chi^2$ /NDF: 160401.0/18

# cor\_dsl\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

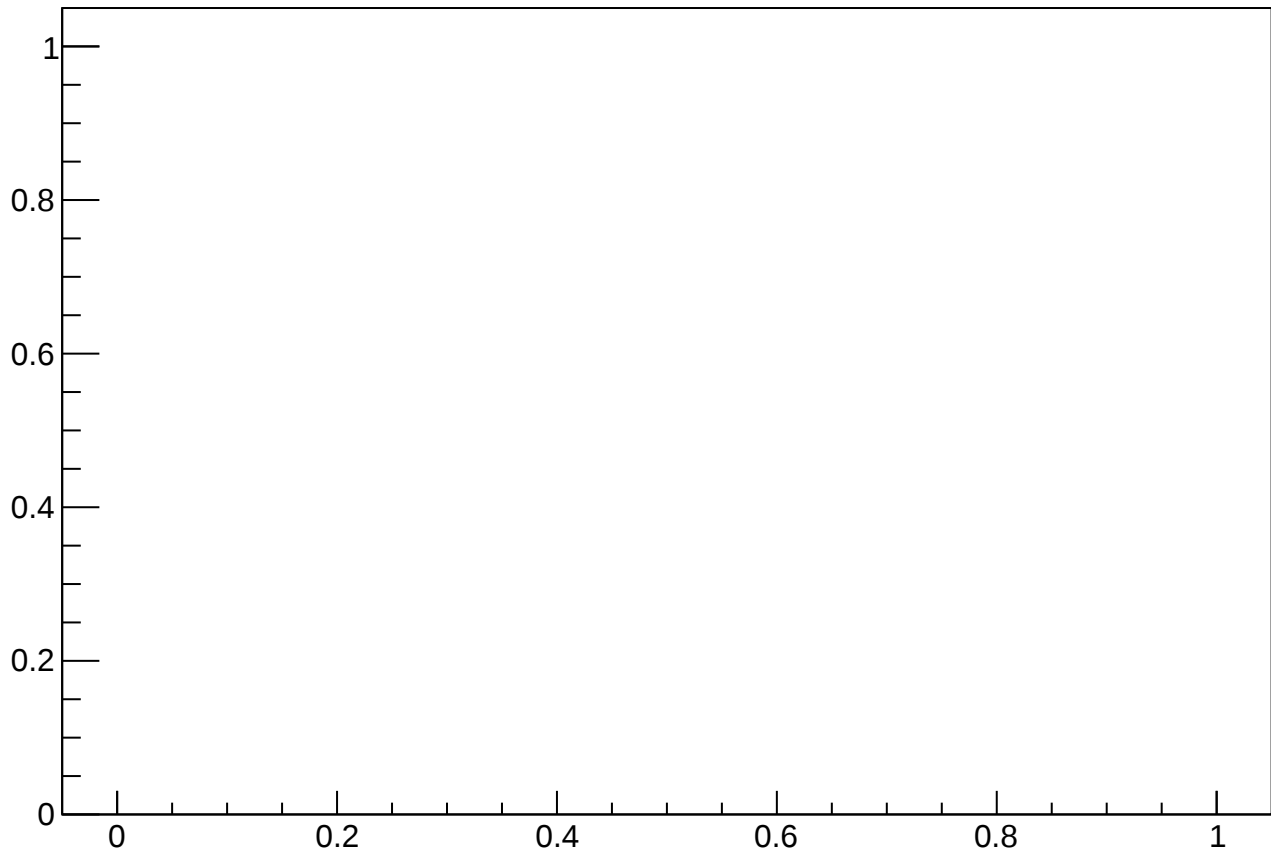
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# cor\_dsl\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

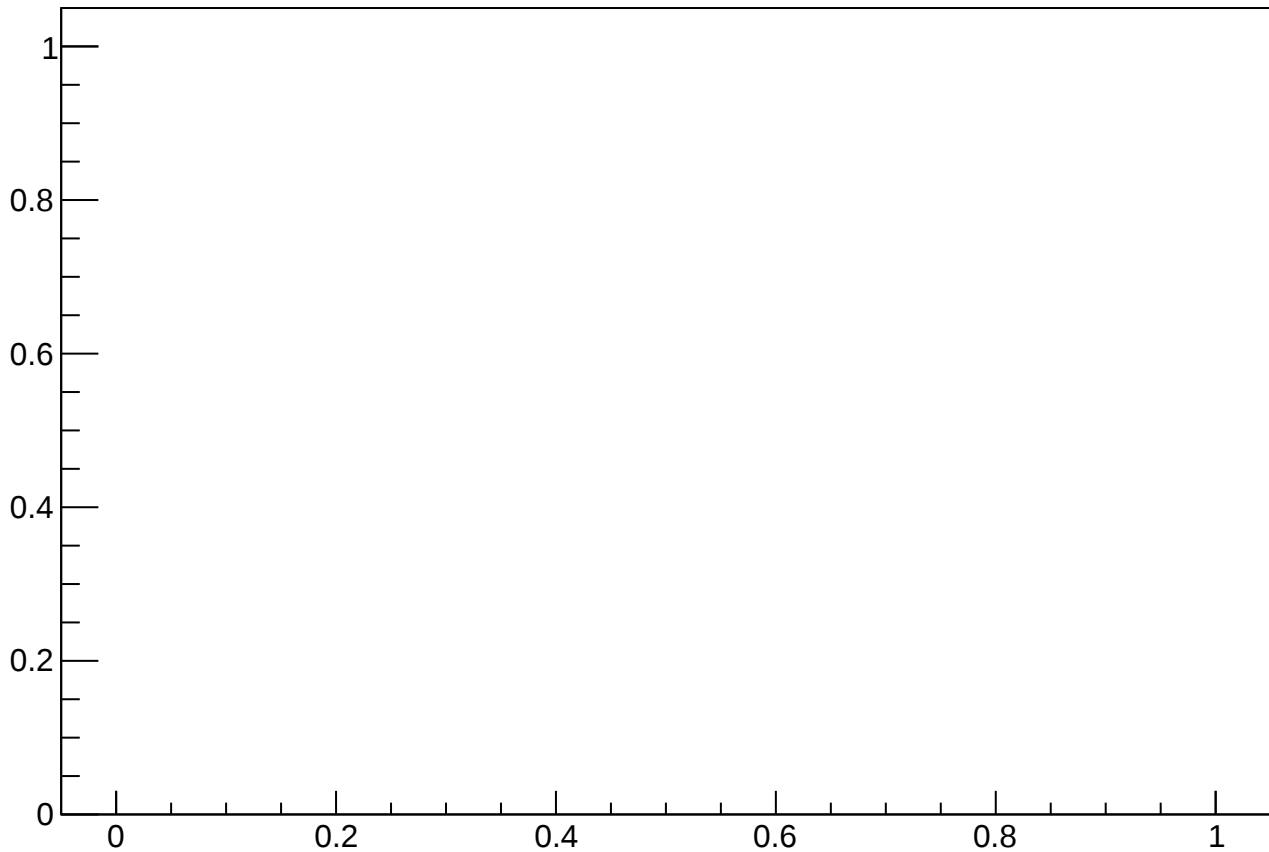
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# cor\_dsr\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

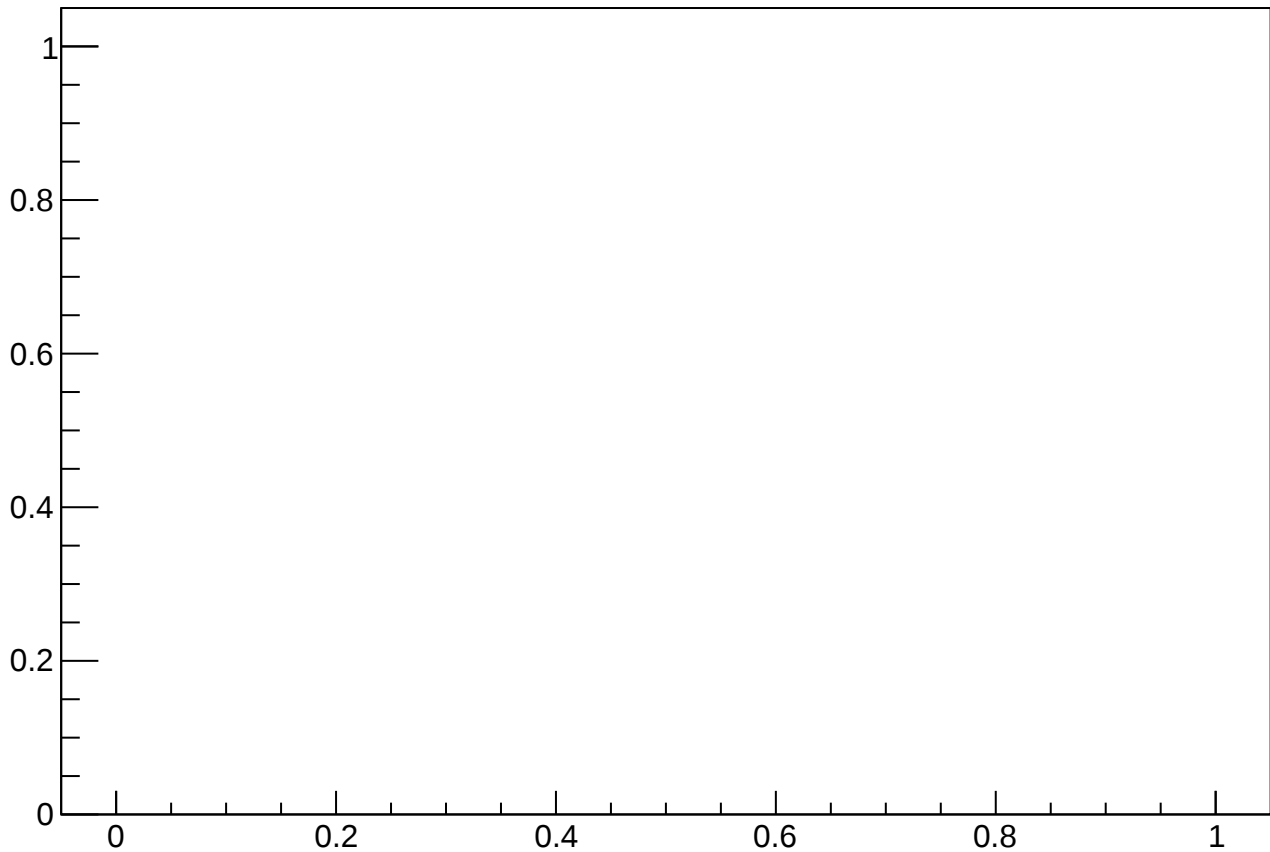
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# cor\_dsr\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

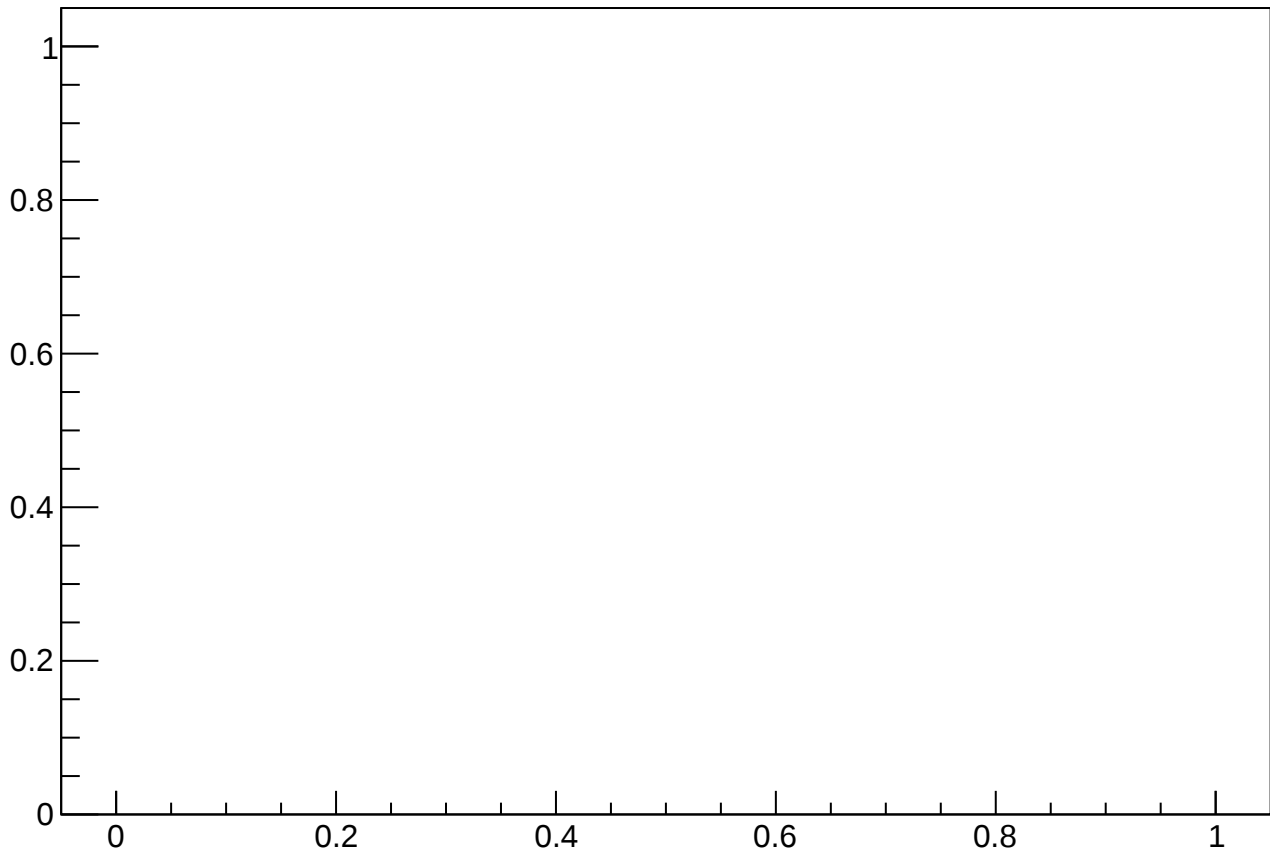
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

cor\_us\_avg\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

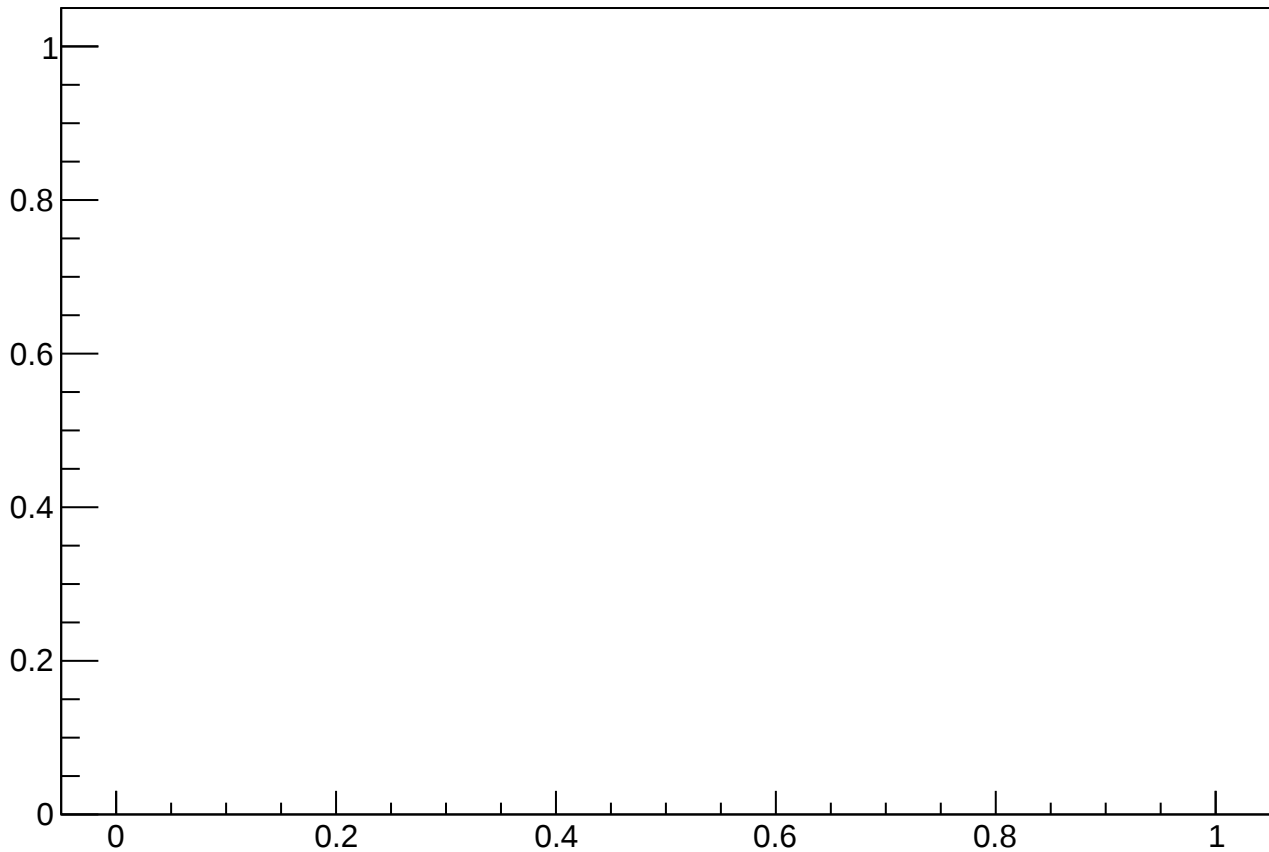
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_us\_avg\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

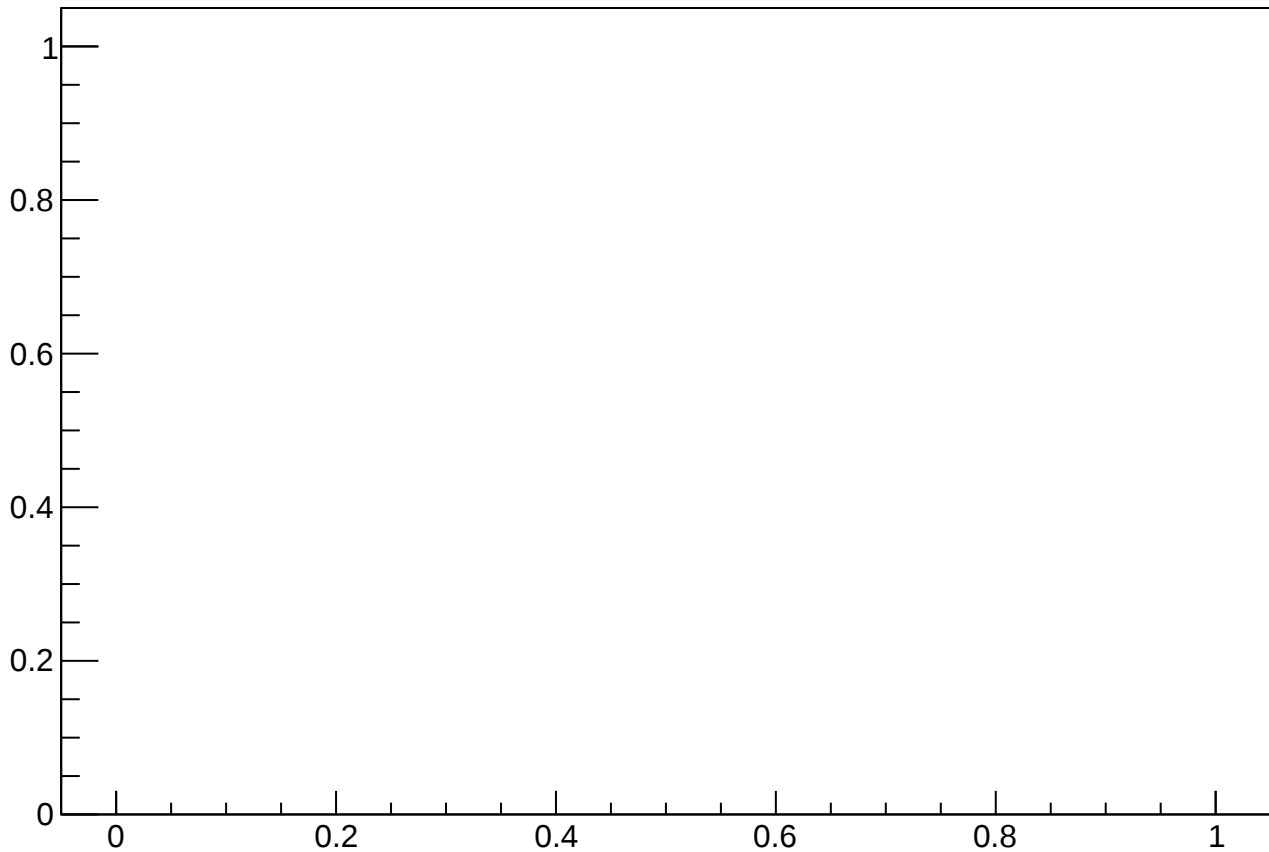
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_us\_dd\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

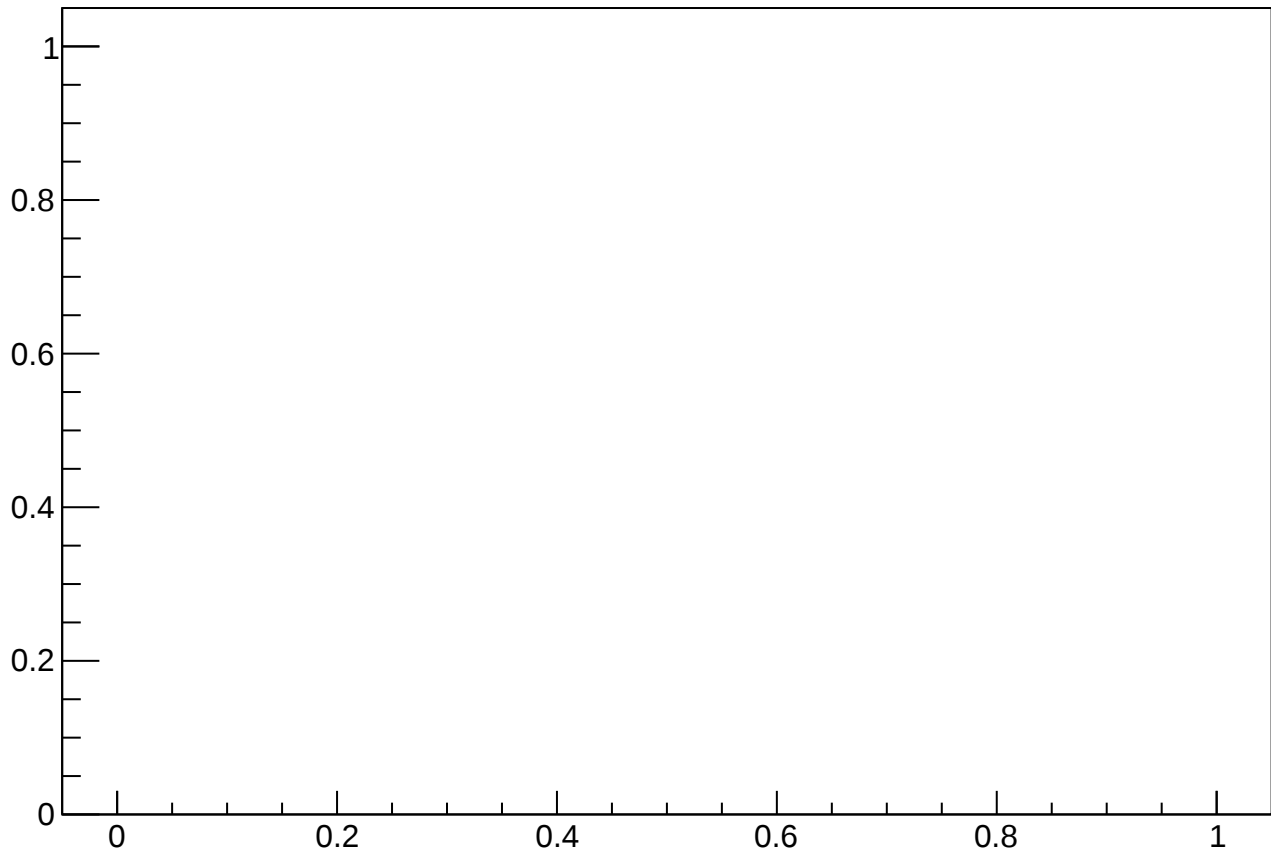
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_us\_dd\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

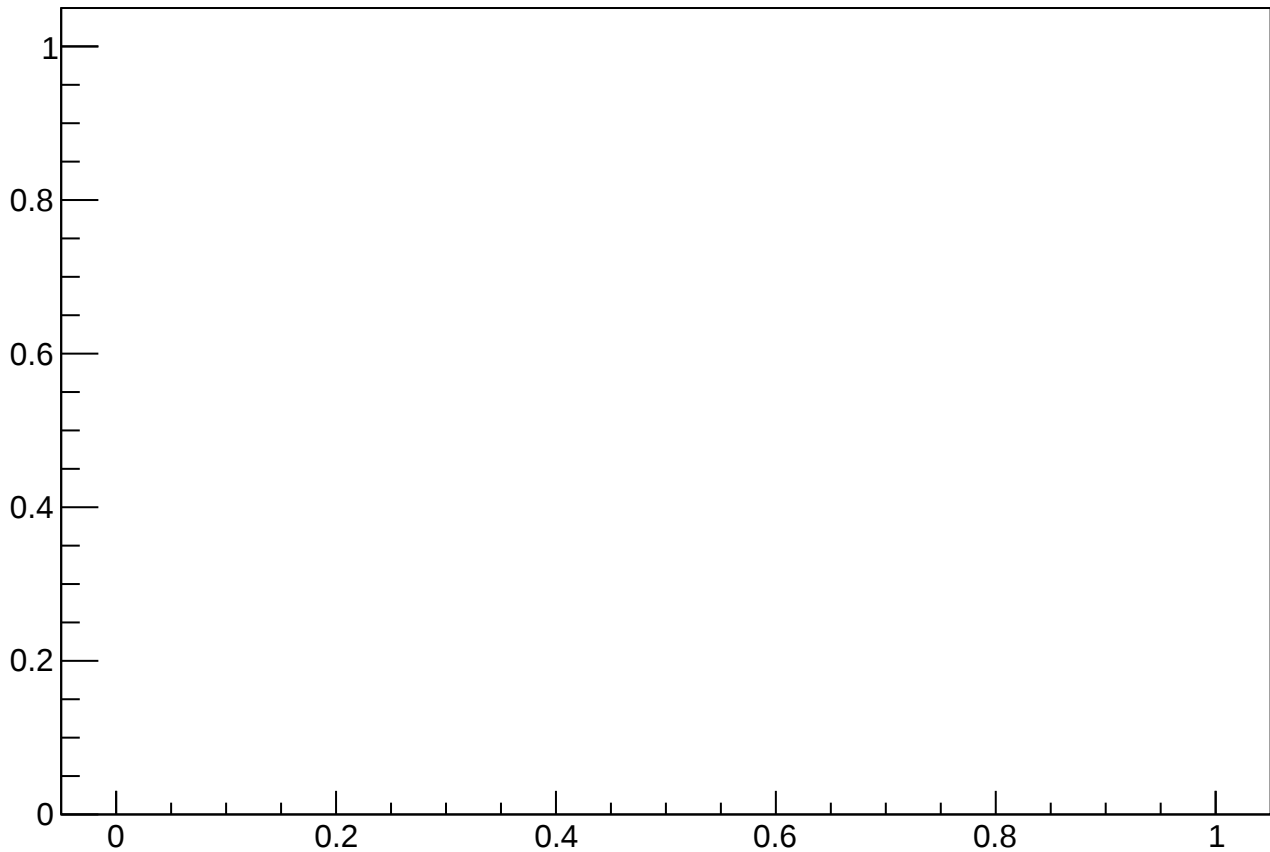
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

cor\_ds\_avg\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

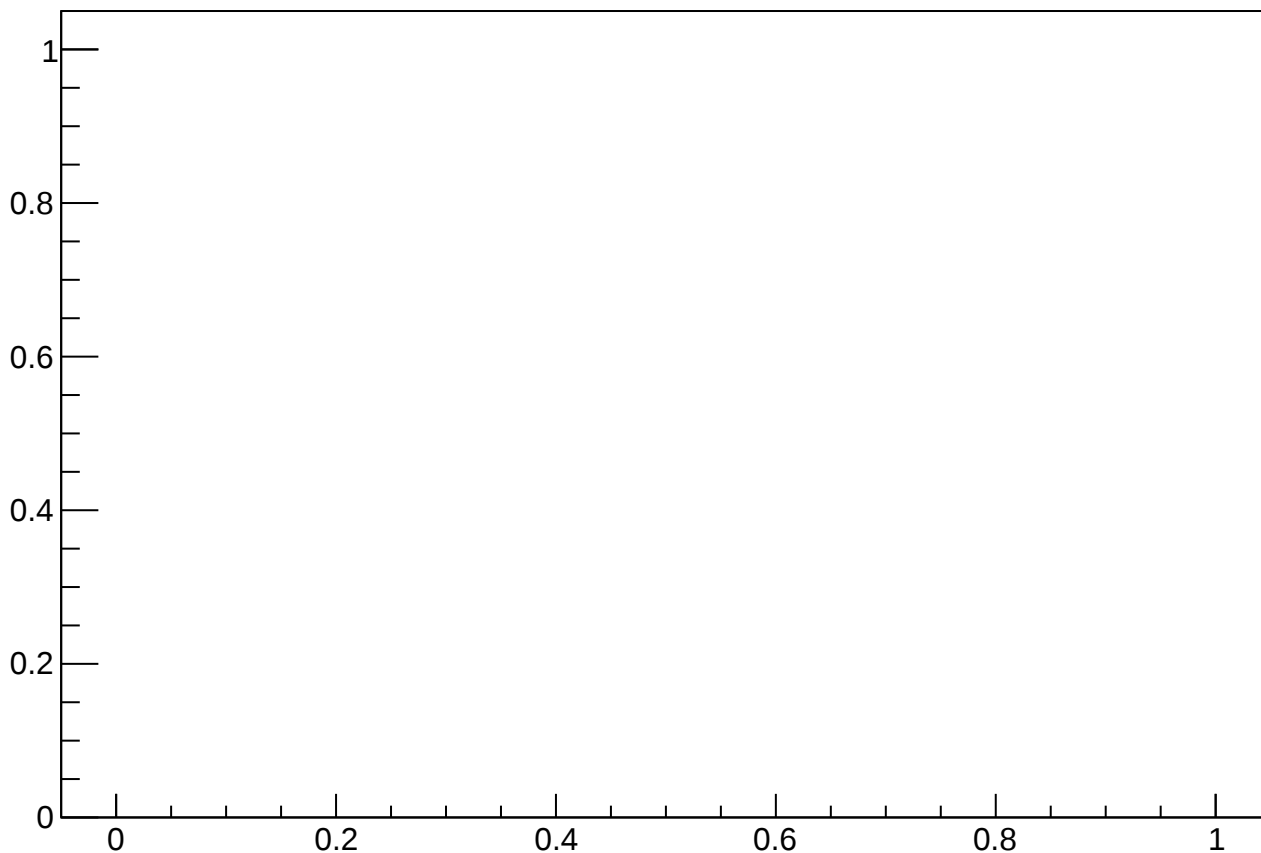
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# cor\_ds\_avg\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

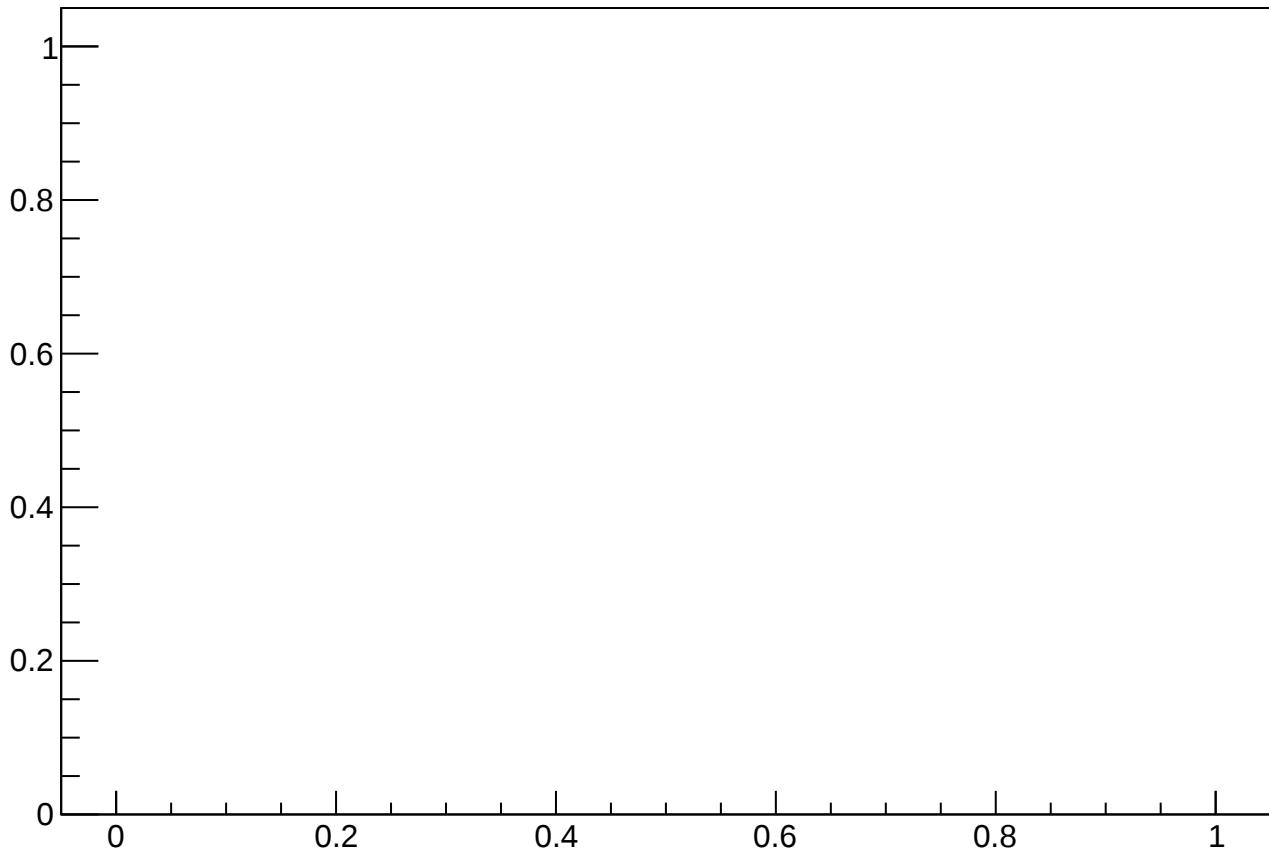
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_ds\_dd\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

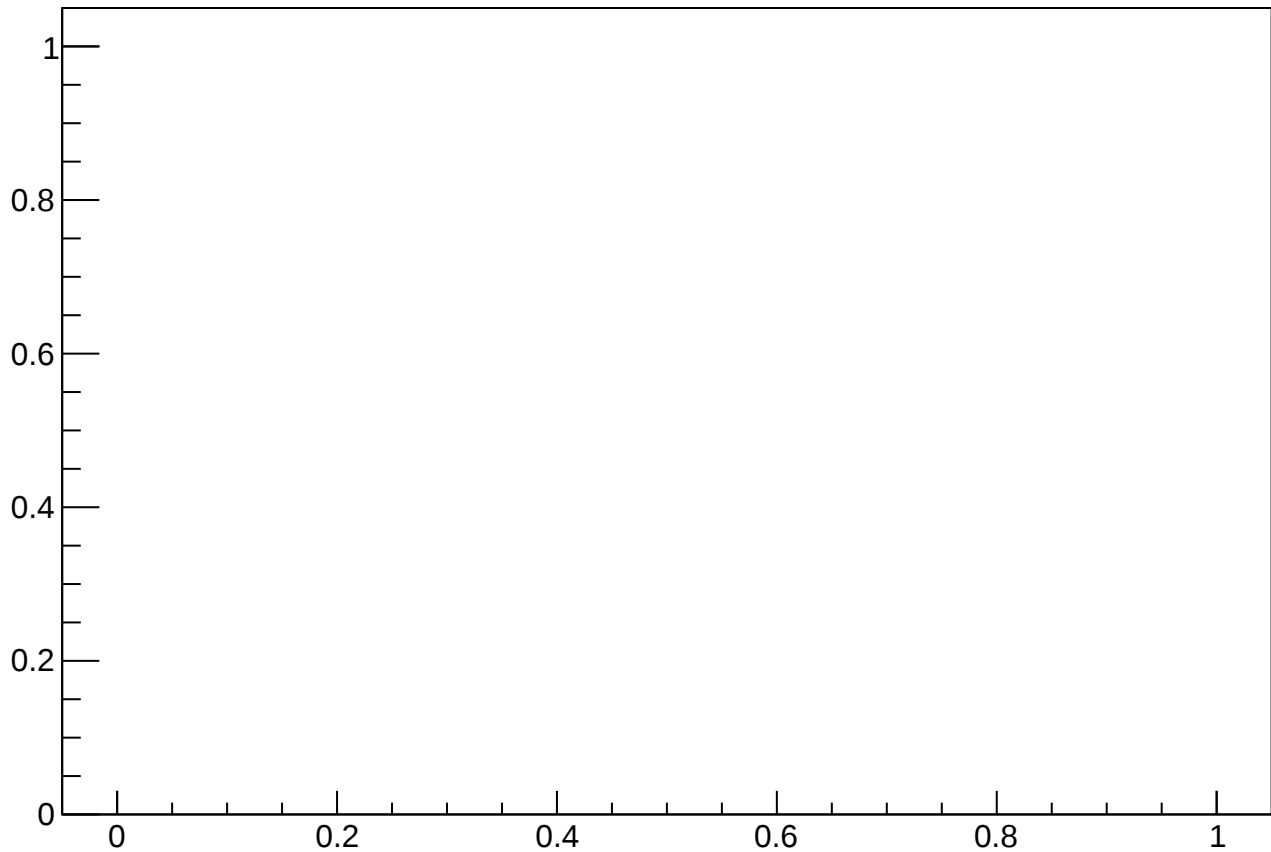
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_ds\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

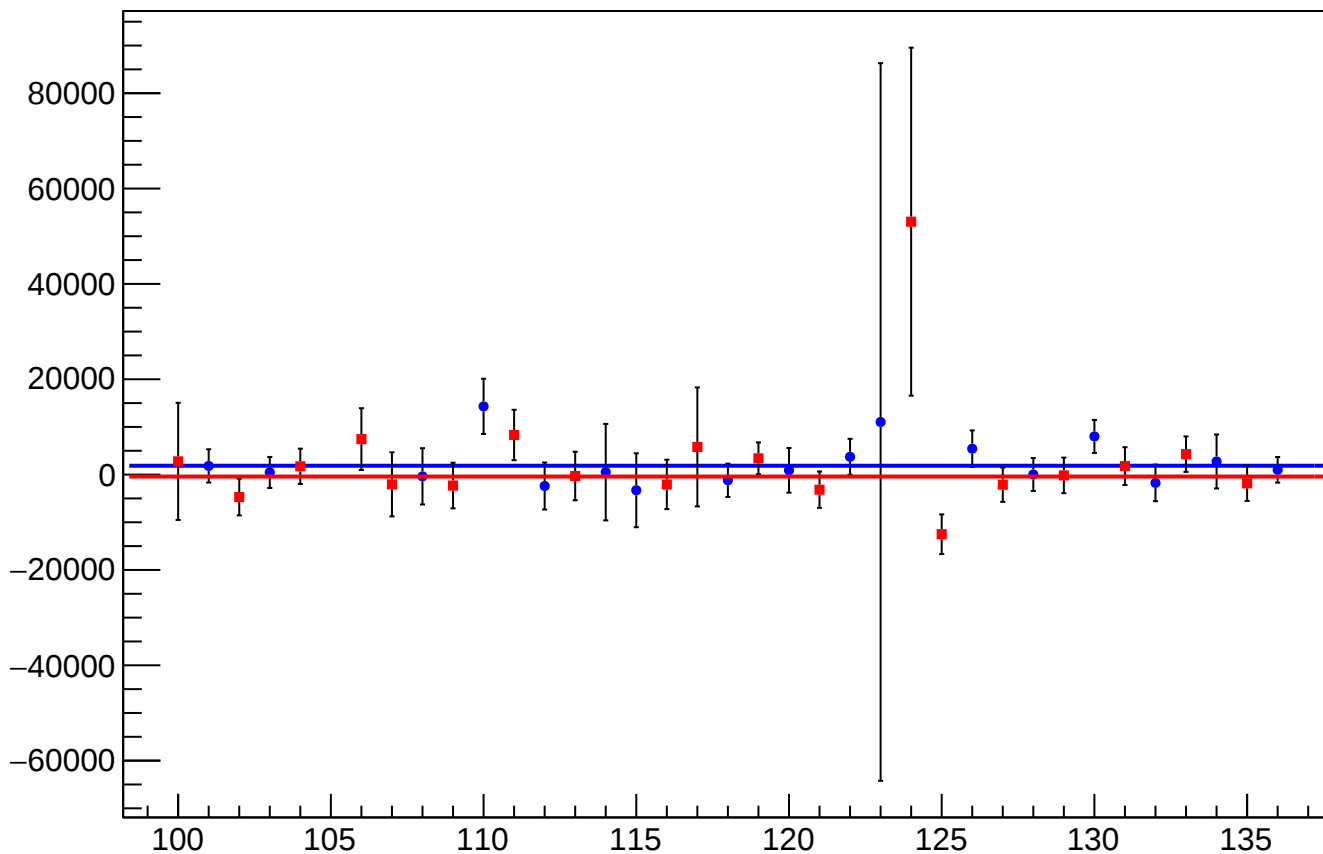
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_mean vs Slug



Right In: 1859.767+/-1013.438  $\chi^2/\text{NDF}$ : 12.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

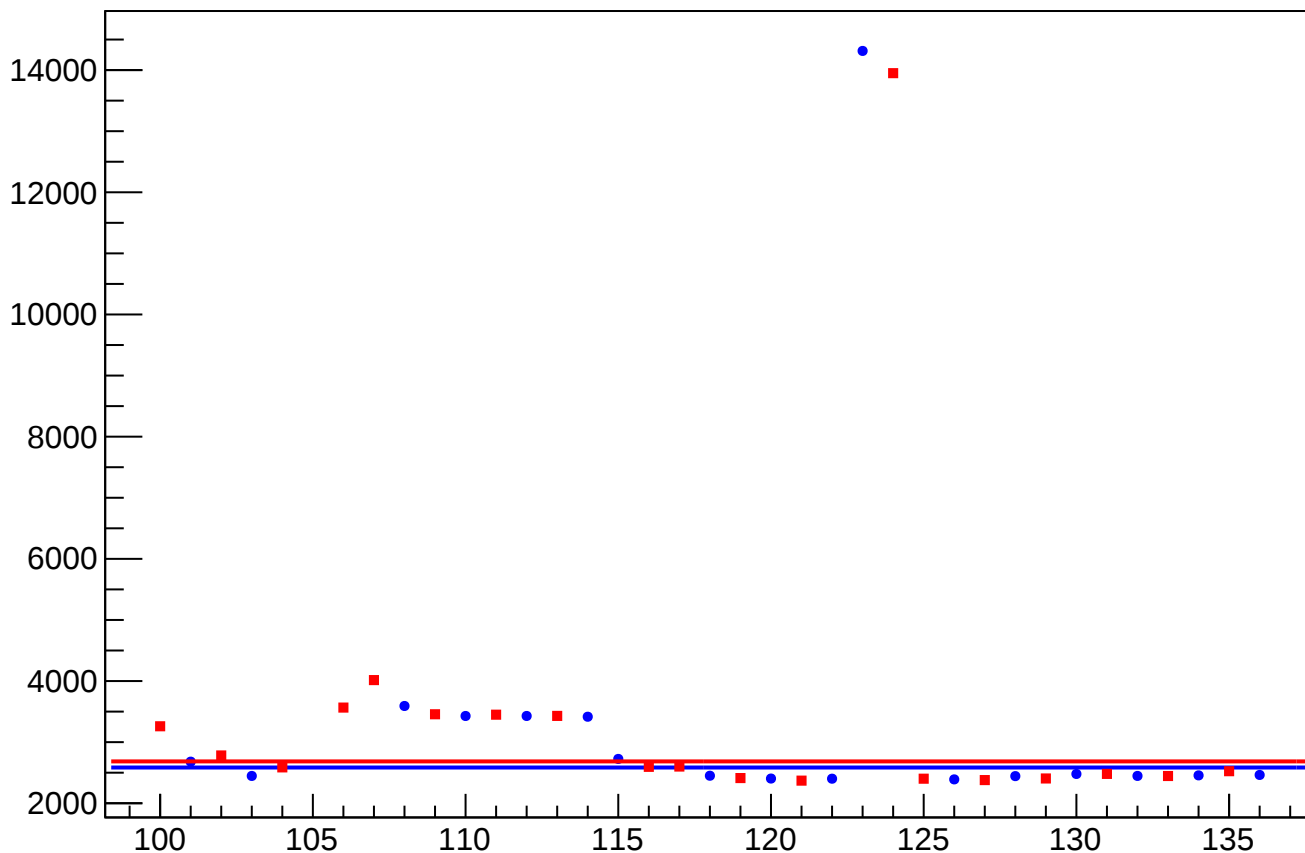
Right Out: -403.694+/-1037.304  $\chi^2/\text{NDF}$ : 21.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1859.767+/-1013.438  $\chi^2/\text{NDF}$ : 12.5/16

-403.694+/-1037.304  $\chi^2/\text{NDF}$ : 21.1/18

# reg\_asym\_atl1\_rms vs Slug



Right In: 2584.819+/-0.717  $\chi^2/\text{NDF}$ : 255710.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

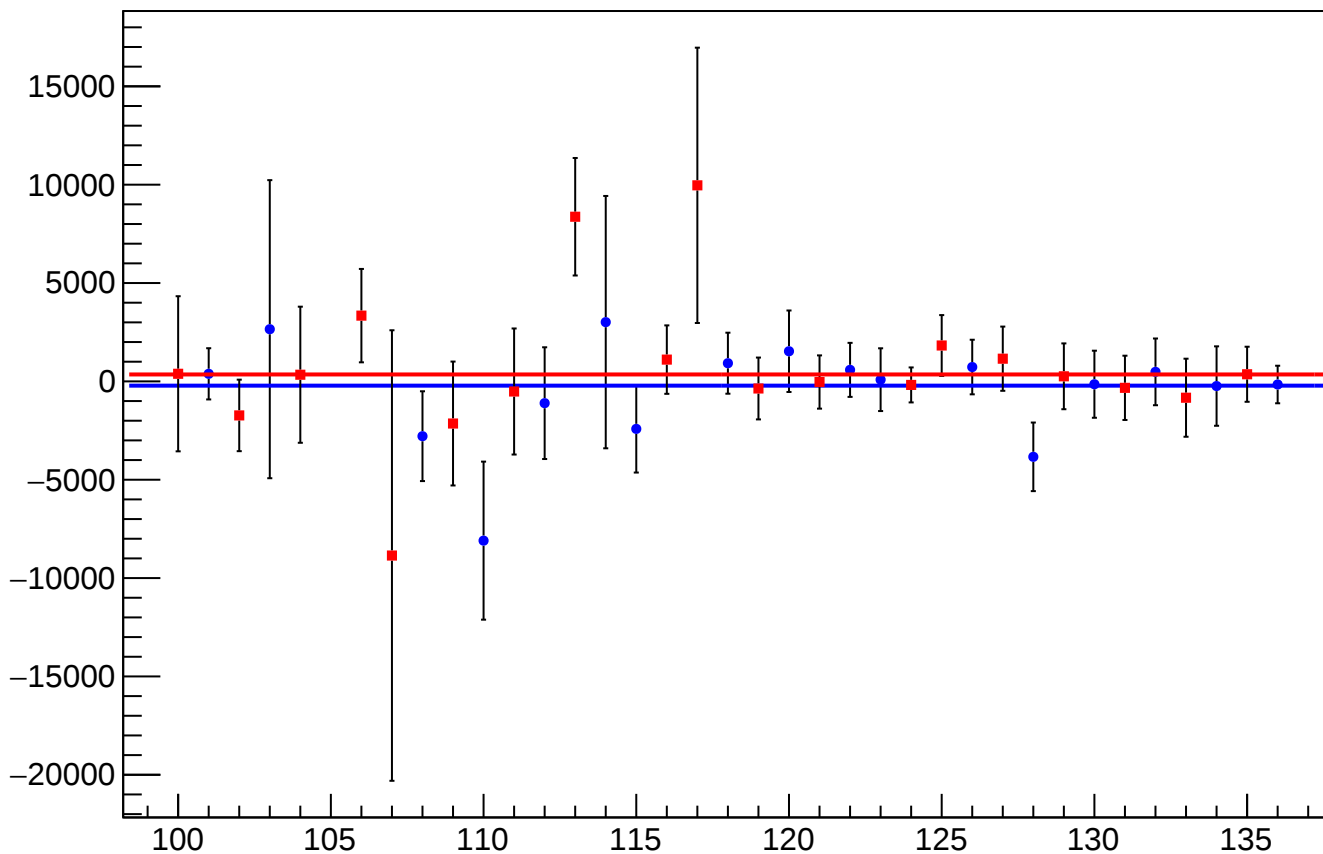
Right Out: 2684.865+/-0.733  $\chi^2/\text{NDF}$ : 529240.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2584.819+/-0.717  $\chi^2/\text{NDF}$ : 255710.5/16

2684.865+/-0.733  $\chi^2/\text{NDF}$ : 529240.1/18

# asym\_atl1\_correction\_mean vs Slug



Right In: -217.017+/-420.077  $\chi^2$ /NDF: 13.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

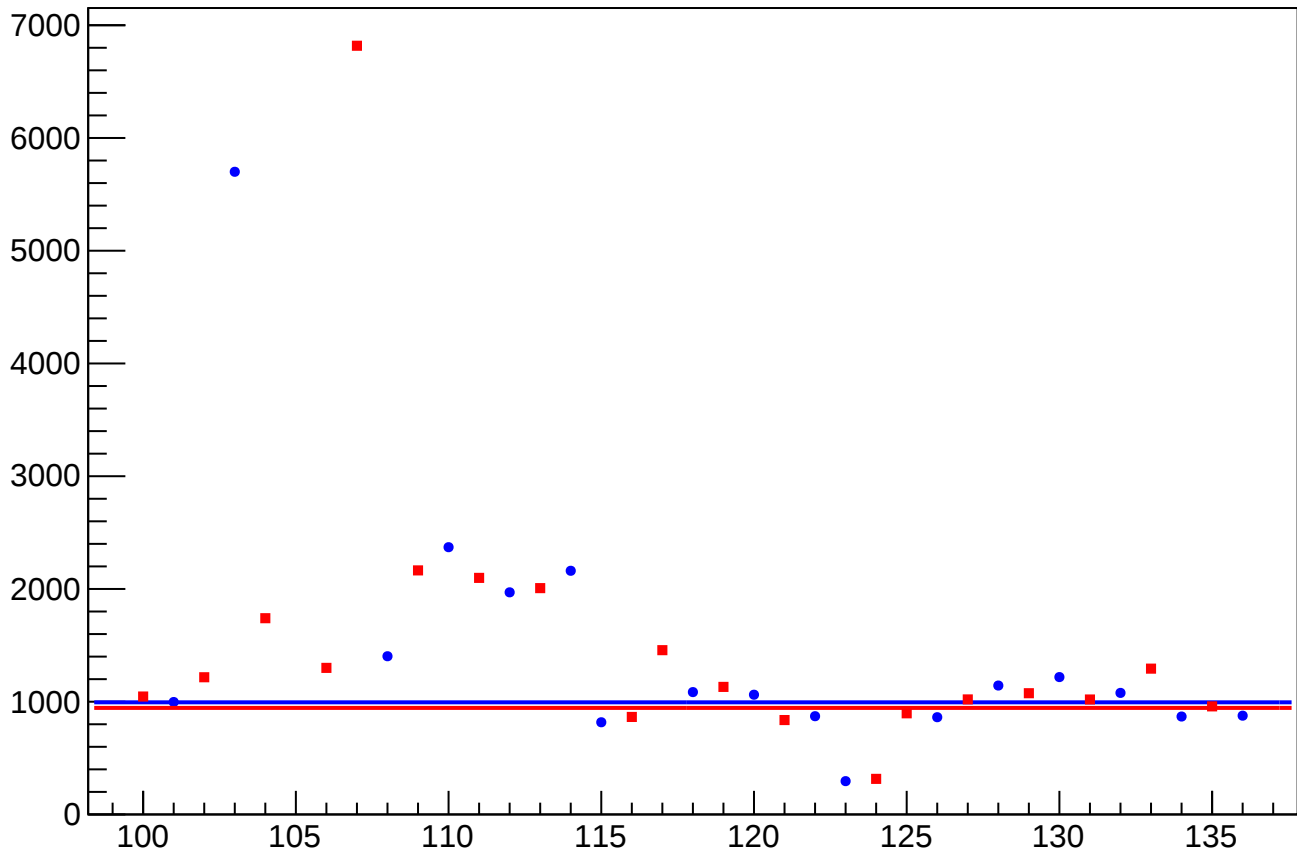
Right Out: 352.165+/-415.172  $\chi^2$ /NDF: 15.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-217.017+/-420.077  $\chi^2$ /NDF: 13.4/16

352.165+/-415.172  $\chi^2$ /NDF: 15.9/18

# asym\_atl1\_correction\_rms vs Slug



Right In: 994.541+/-0.297  $\chi^2/\text{NDF}$ : 1904549.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

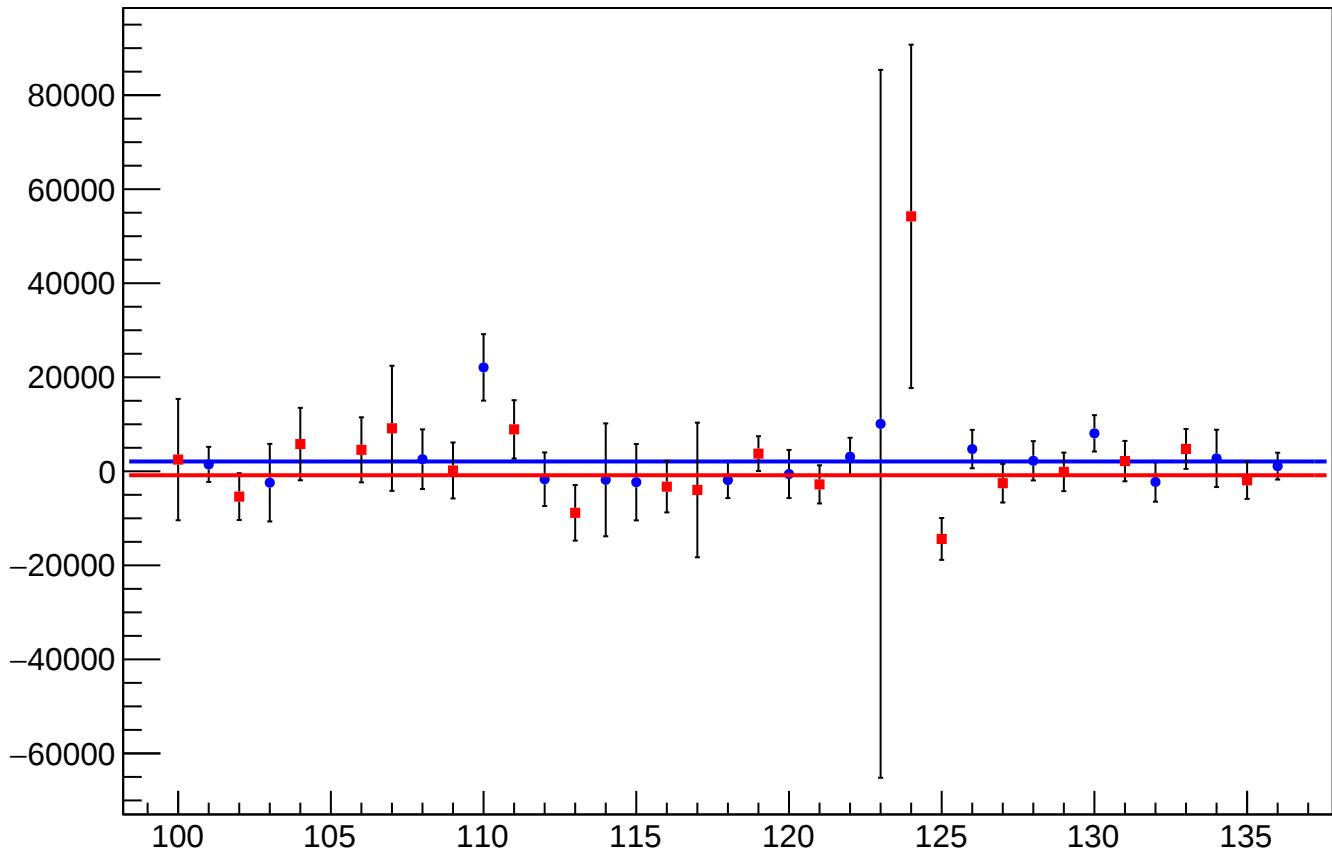
Right Out: 945.061+/-0.294  $\chi^2/\text{NDF}$ : 2676378.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

994.541+/-0.297  $\chi^2/\text{NDF}$ : 1904549.2/16

945.061+/-0.294  $\chi^2/\text{NDF}$ : 2676378.3/18

# asym\_atl1\_mean vs Slug



Right In: 2094.050+/-1160.426  $\chi^2$ /NDF: 14.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

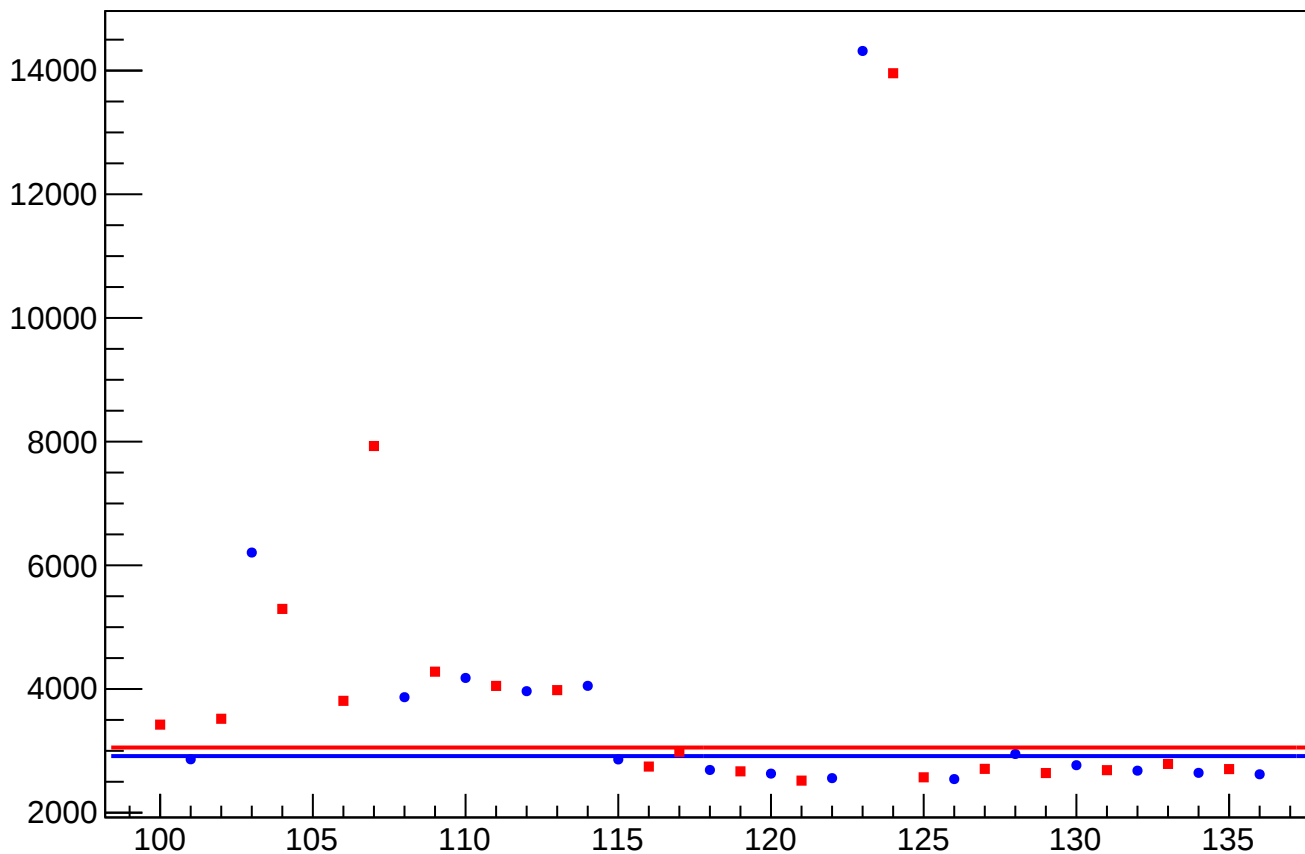
Right Out: -837.997+/-1205.784  $\chi^2$ /NDF: 23.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2094.050+/-1160.426  $\chi^2$ /NDF: 14.6/16

-837.997+/-1205.784  $\chi^2$ /NDF: 23.2/18

# asym\_atl1\_rms vs Slug



Right In: 2915.201+/-0.821  $\chi^2$ /NDF: 639136.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

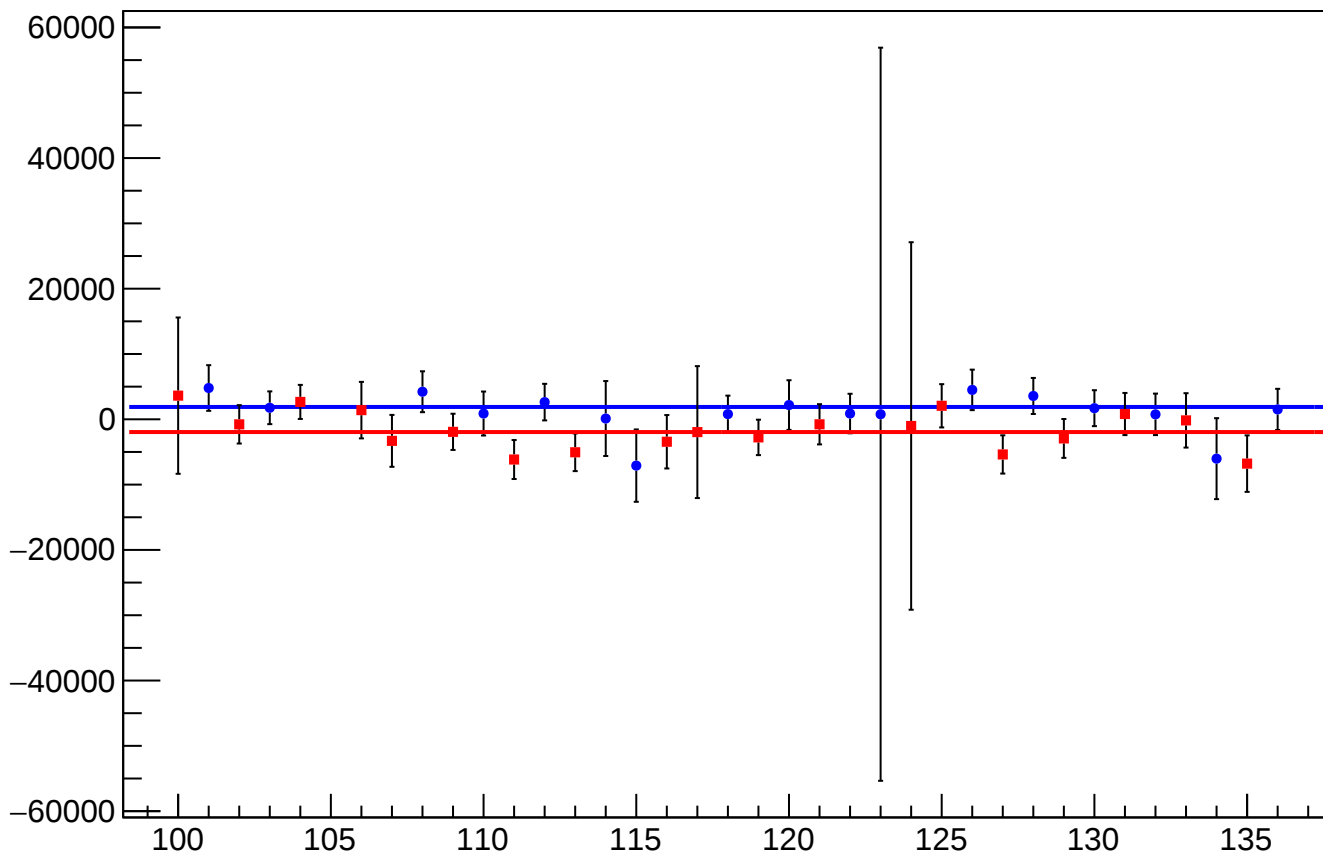
Right Out: 3053.678+/-0.853  $\chi^2$ /NDF: 1003255.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2915.201+/-0.821  $\chi^2$ /NDF: 639136.4/16

3053.678+/-0.853  $\chi^2$ /NDF: 1003255.4/18

# reg\_asym\_atl2\_mean vs Slug



Right In: 1889.943+/-811.431  $\chi^2$ /NDF: 7.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

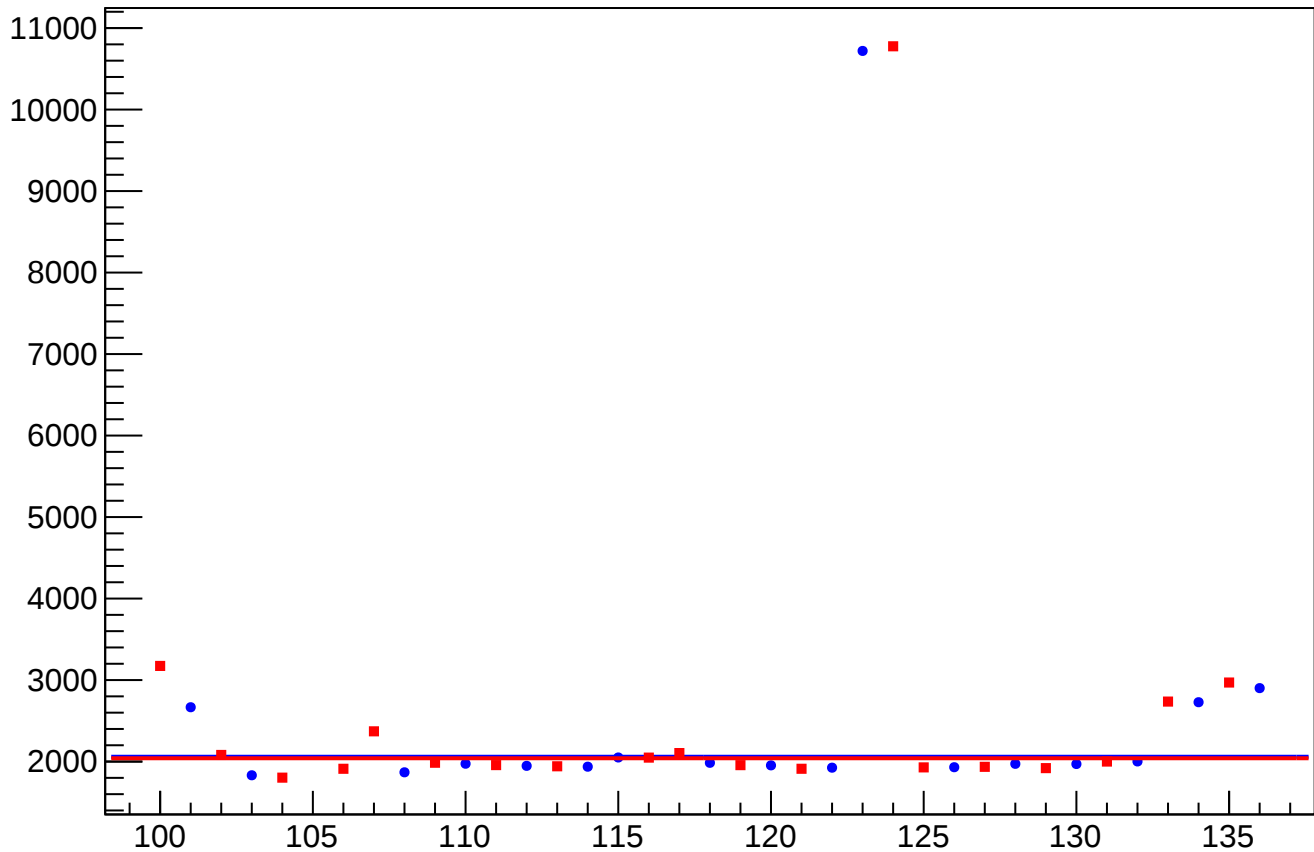
Right Out: -1951.701+/-793.229  $\chi^2$ /NDF: 12.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1889.943+/-811.431  $\chi^2$ /NDF: 7.3/16

-1951.701+/-793.229  $\chi^2$ /NDF: 12.9/18

# reg\_asym\_atl2\_rms vs Slug



Right In: 2058.963+/-0.574  $\chi^2/\text{NDF}$ : 318561.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

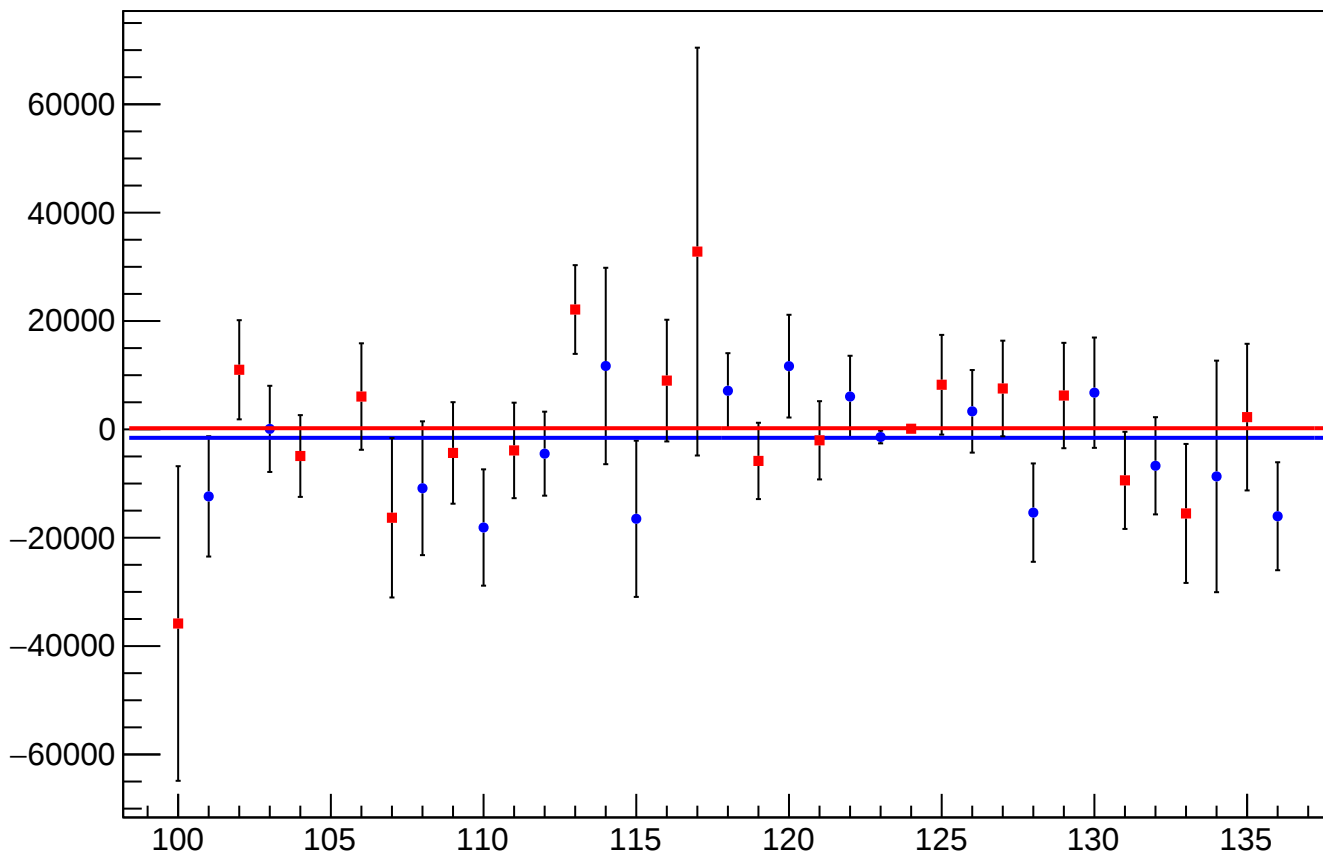
Right Out: 2040.536+/-0.561  $\chi^2/\text{NDF}$ : 410183.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2058.963+/-0.574  $\chi^2/\text{NDF}$ : 318561.5/16

2040.536+/-0.561  $\chi^2/\text{NDF}$ : 410183.0/18

# asym\_atl2\_correction\_mean vs Slug



Right In: -1563.218+/-1053.946  $\chi^2$ /NDF: 16.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

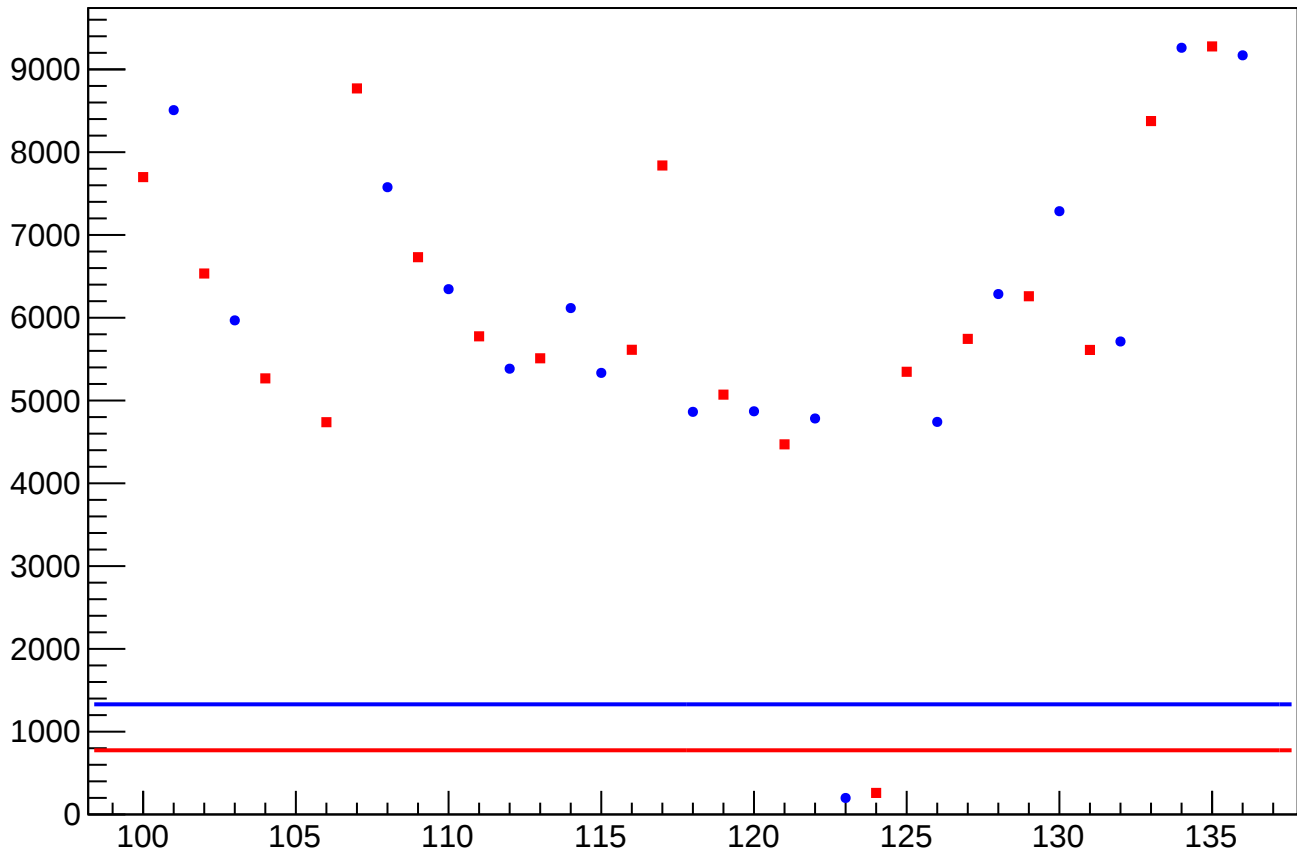
Right Out: 213.200+/-695.427  $\chi^2$ /NDF: 19.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1563.218+/-1053.946  $\chi^2$ /NDF: 16.2/16

213.200+/-695.427  $\chi^2$ /NDF: 19.3/18

# asym\_atl2\_correction\_rms vs Slug



Right In: 1330.250+/-0.745  $\chi^2/\text{NDF}$ : 10046828.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

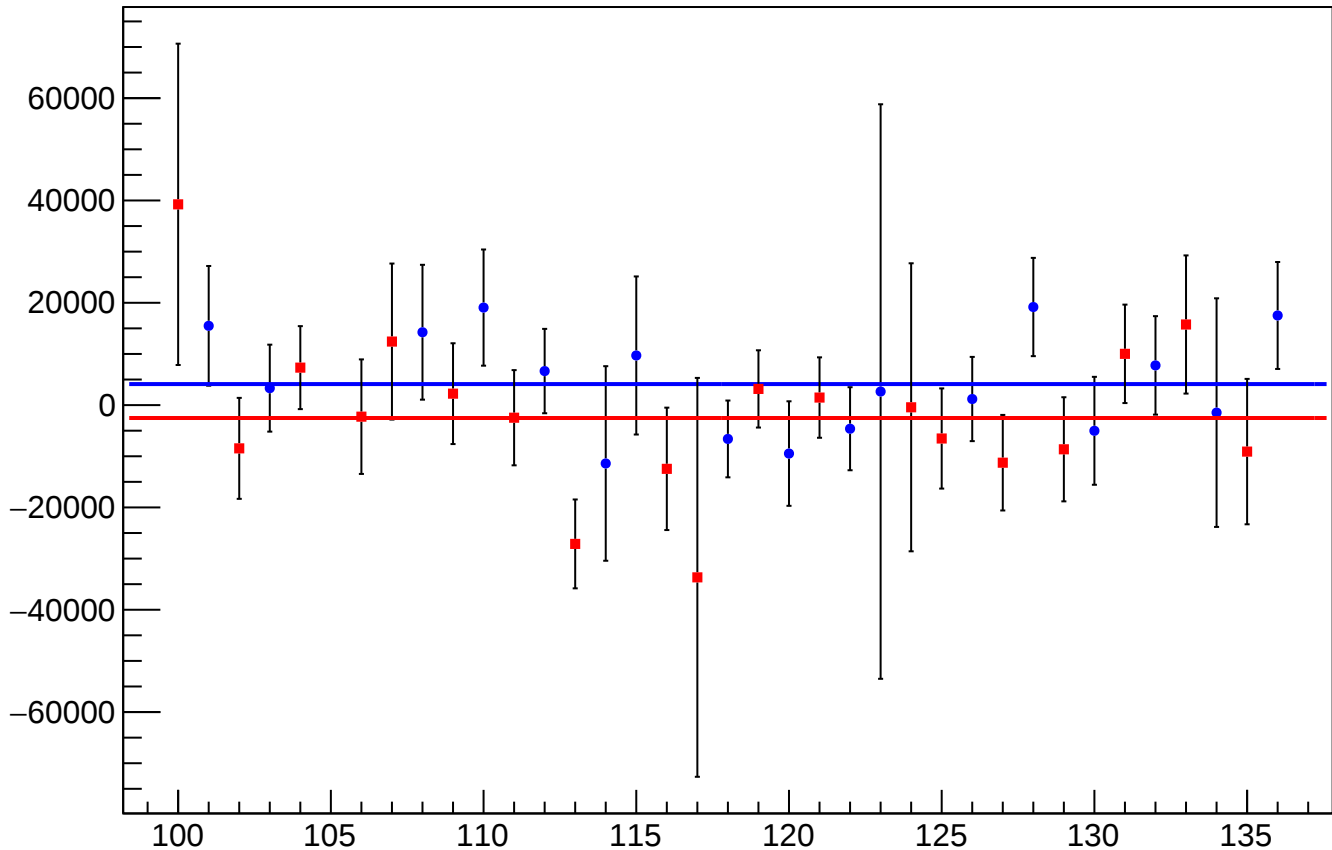
1330.250+/-0.745  $\chi^2/\text{NDF}$ : 10046828.9/16

Right Out: 775.129+/-0.492  $\chi^2/\text{NDF}$ : 11193670.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

775.129+/-0.492  $\chi^2/\text{NDF}$ : 11193670.6/18

# asym\_atl2\_mean vs Slug



Right In: 4111.784+/-2534.444  $\chi^2/\text{NDF}$ : 14.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

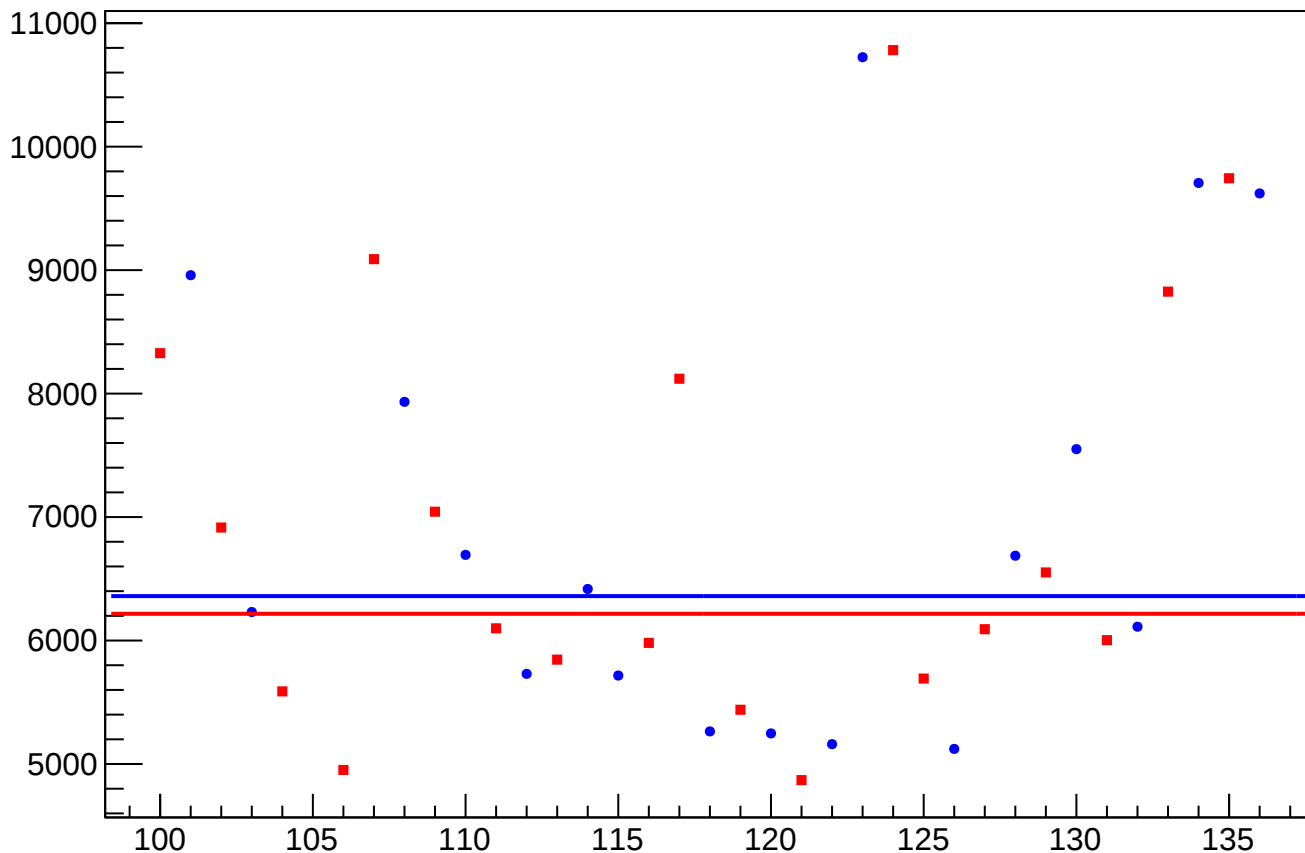
4111.784+/-2534.444  $\chi^2/\text{NDF}$ : 14.3/16

Right Out: -2519.384+/-2430.380  $\chi^2/\text{NDF}$ : 20.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2519.384+/-2430.380  $\chi^2/\text{NDF}$ : 20.1/18

# asym\_atl2\_rms vs Slug



Right In: 6359.928+/-1.792  $\chi^2/\text{NDF}$ : 580471.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

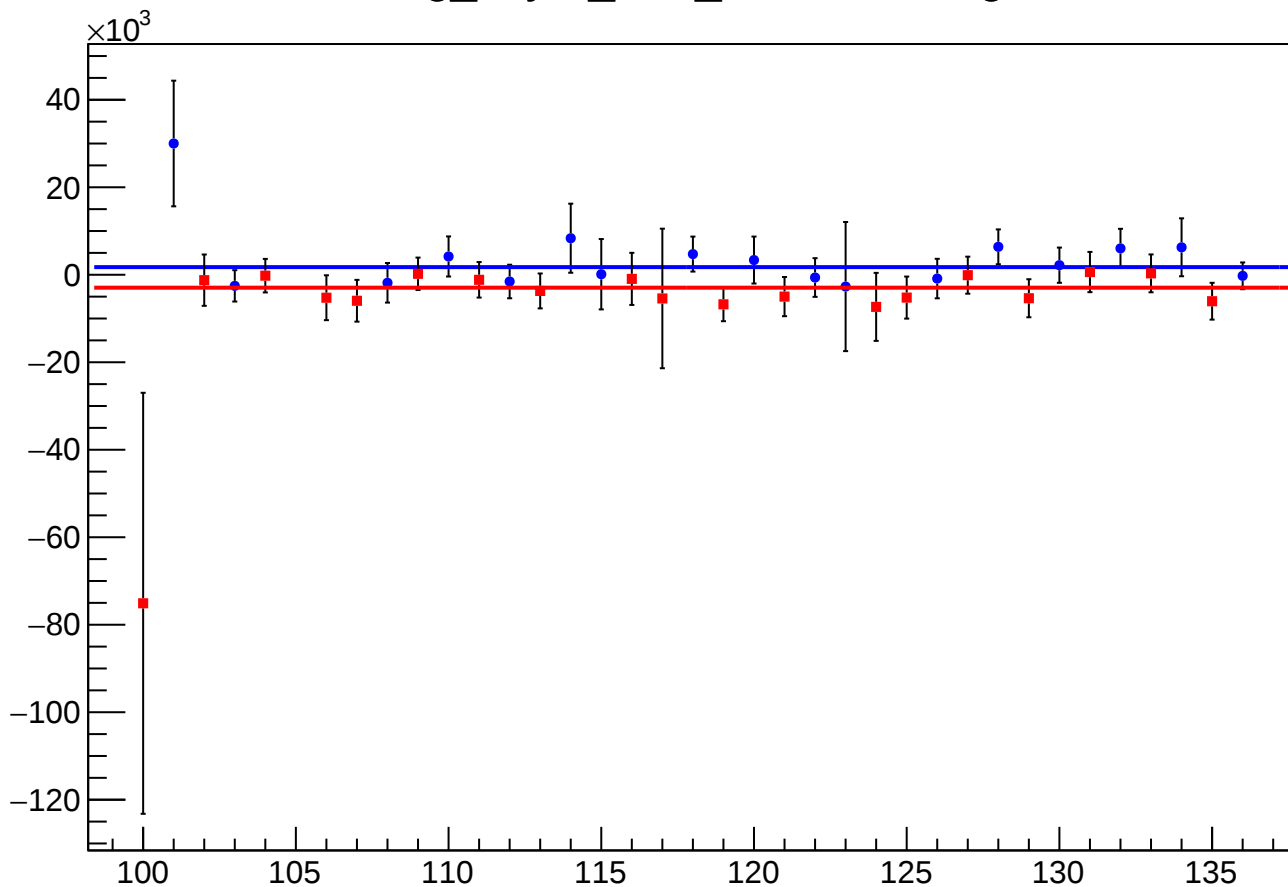
Right Out: 6216.672+/-1.718  $\chi^2/\text{NDF}$ : 490888.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6359.928+/-1.792  $\chi^2/\text{NDF}$ : 580471.0/16

6216.672+/-1.718  $\chi^2/\text{NDF}$ : 490888.4/18

# reg\_asym\_atr1\_mean vs Slug



Right In: 1746.001+/-1128.522  $\chi^2$ /NDF: 12.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

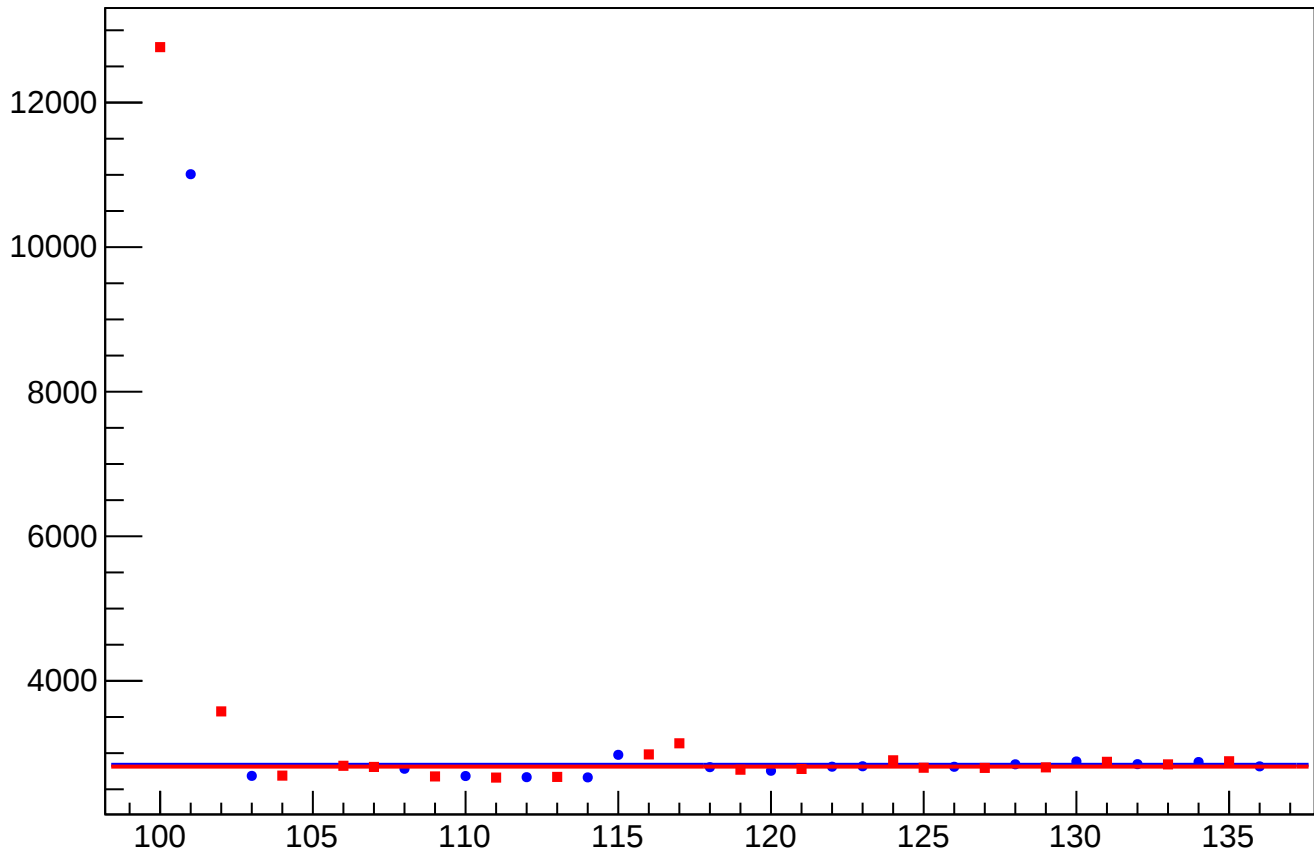
Right Out: -2951.809+/-1084.314  $\chi^2$ /NDF: 8.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1746.001+/-1128.522  $\chi^2$ /NDF: 12.2/16

-2951.809+/-1084.314  $\chi^2$ /NDF: 8.7/18

# reg\_asym\_atr1\_rms vs Slug



Right In: 2838.737+/-0.798  $\chi^2/\text{NDF}$ : 660209.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

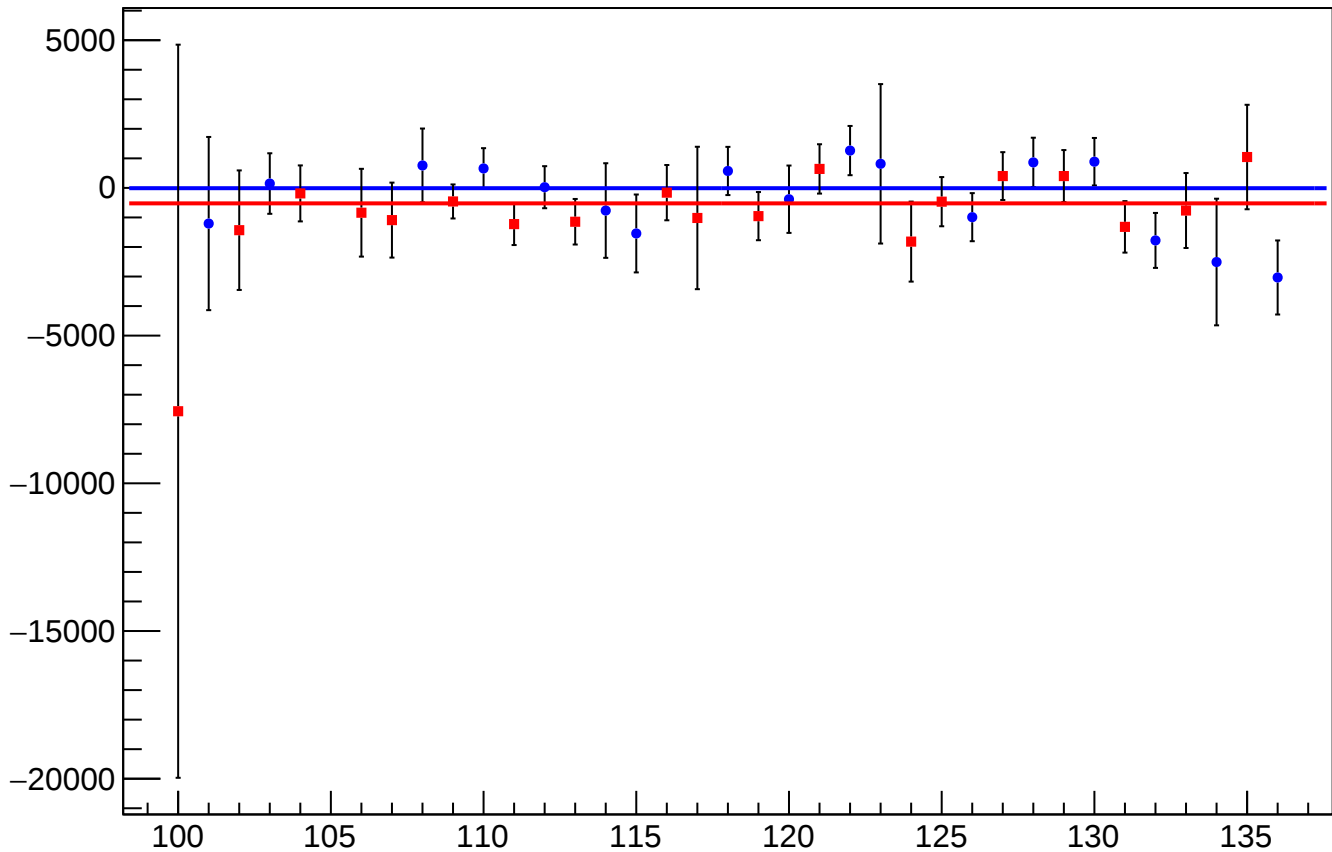
Right Out: 2813.722+/-0.767  $\chi^2/\text{NDF}$ : 133875.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2838.737+/-0.798  $\chi^2/\text{NDF}$ : 660209.3/16

2813.722+/-0.767  $\chi^2/\text{NDF}$ : 133875.5/18

# asym\_atr1\_correction\_mean vs Slug



Right In: -9.845+/-241.678  $\chi^2$ /NDF: 20.7/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

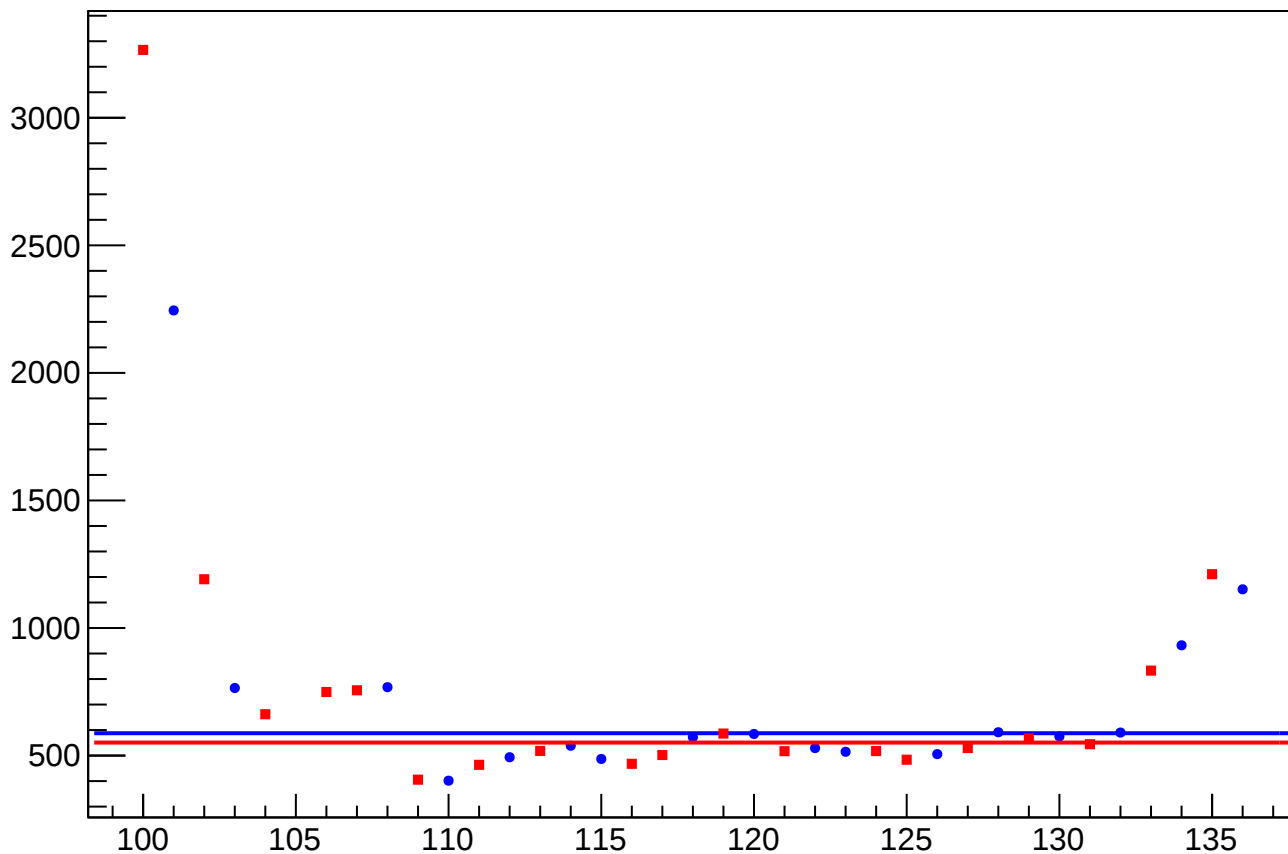
Right Out: -523.343+/-221.203  $\chi^2$ /NDF: 9.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-9.845+/-241.678  $\chi^2$ /NDF: 20.7/16

-523.343+/-221.203  $\chi^2$ /NDF: 9.9/18

# asym\_atr1\_correction\_rms vs Slug



Right In: 587.596+/-0.171  $\chi^2/\text{NDF}$ : 1425769.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

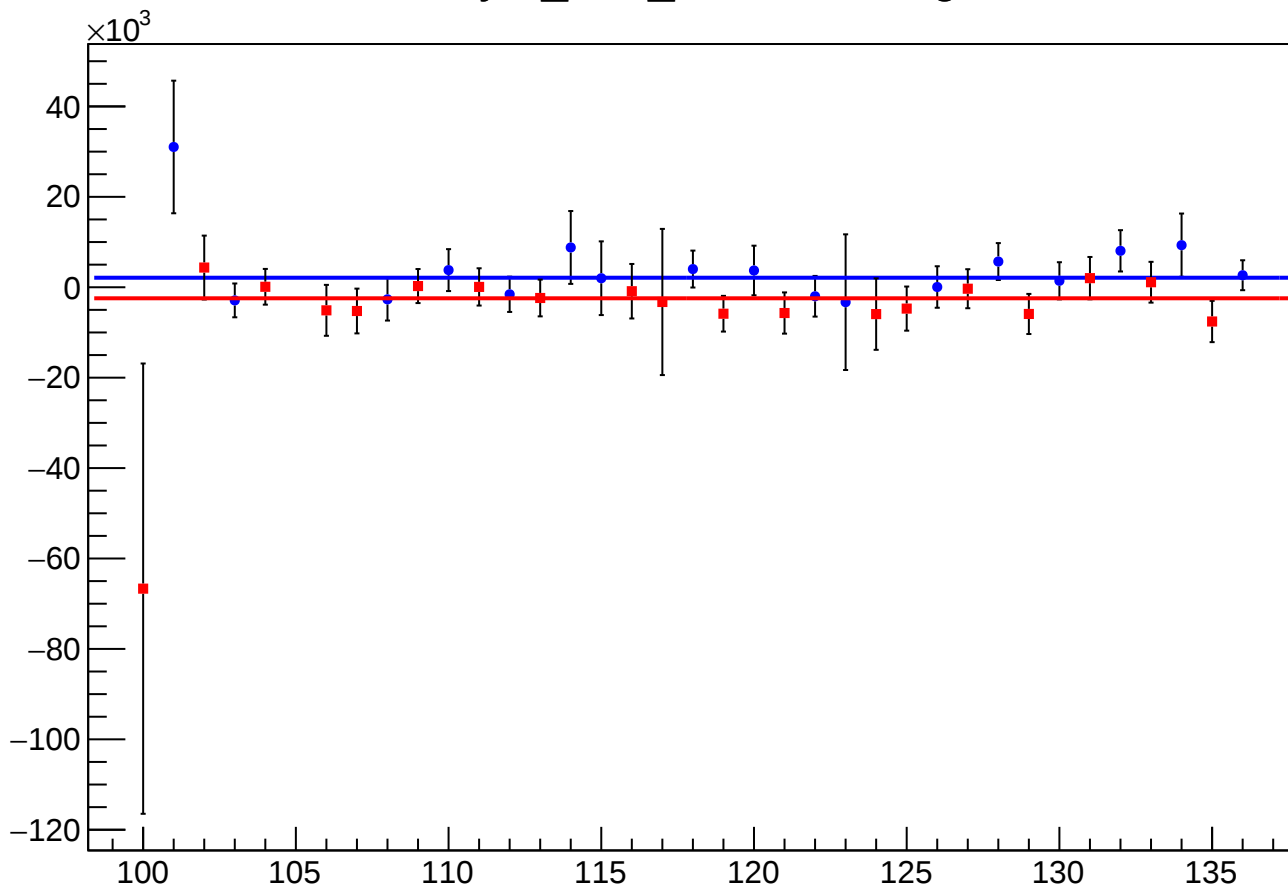
Right Out: 550.997+/-0.156  $\chi^2/\text{NDF}$ : 990301.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

587.596+/-0.171  $\chi^2/\text{NDF}$ : 1425769.6/16

550.997+/-0.156  $\chi^2/\text{NDF}$ : 990301.9/18

# asym\_atr1\_mean vs Slug



Right In: 2108.498 $\pm$ 1164.336  $\chi^2$ /NDF: 13.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

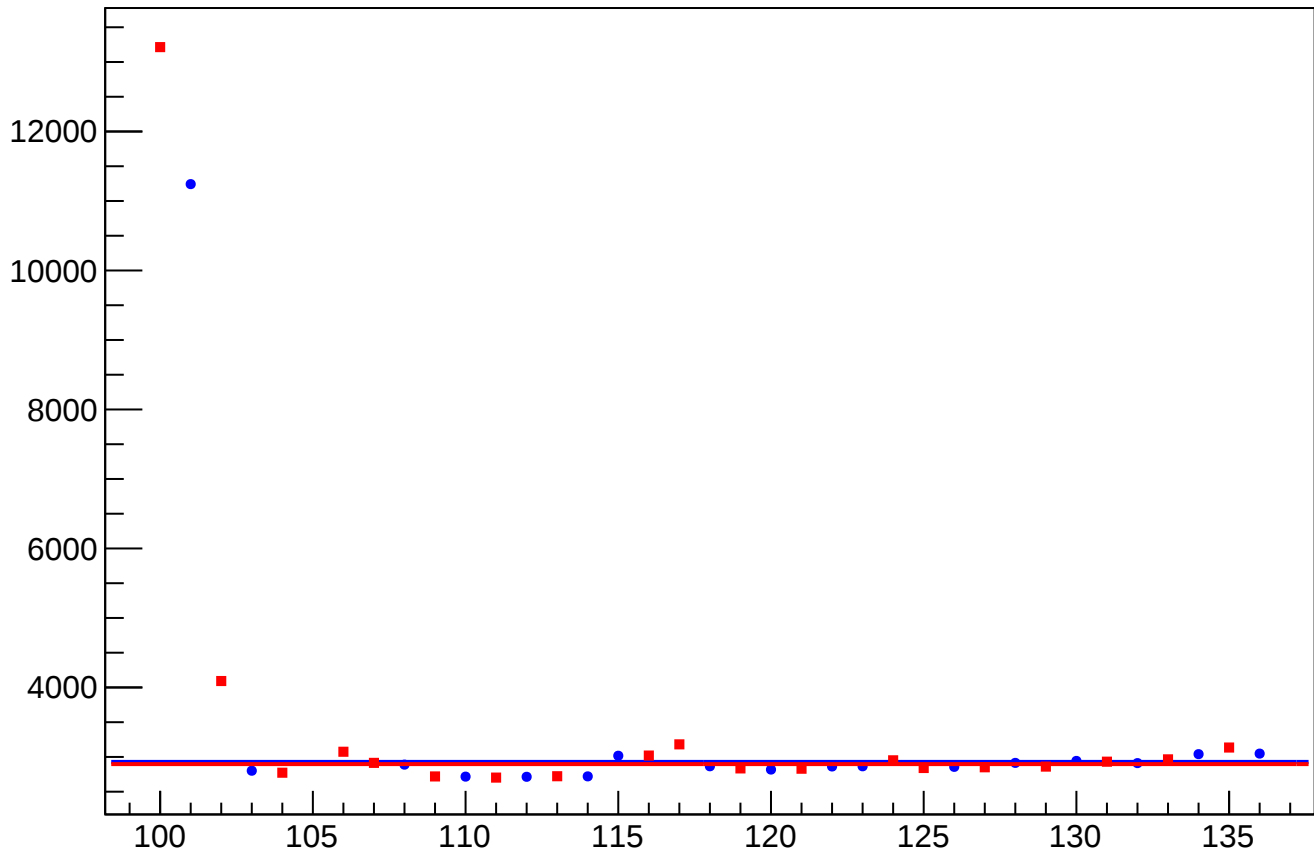
Right Out: -2440.907 $\pm$ 1121.274  $\chi^2$ /NDF: 9.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2108.498 $\pm$ 1164.336  $\chi^2$ /NDF: 13.5/16

-2440.907 $\pm$ 1121.274  $\chi^2$ /NDF: 9.8/18

# asym\_atr1\_rms vs Slug



Right In: 2928.700+/-0.823  $\chi^2/\text{NDF}$ : 662362.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

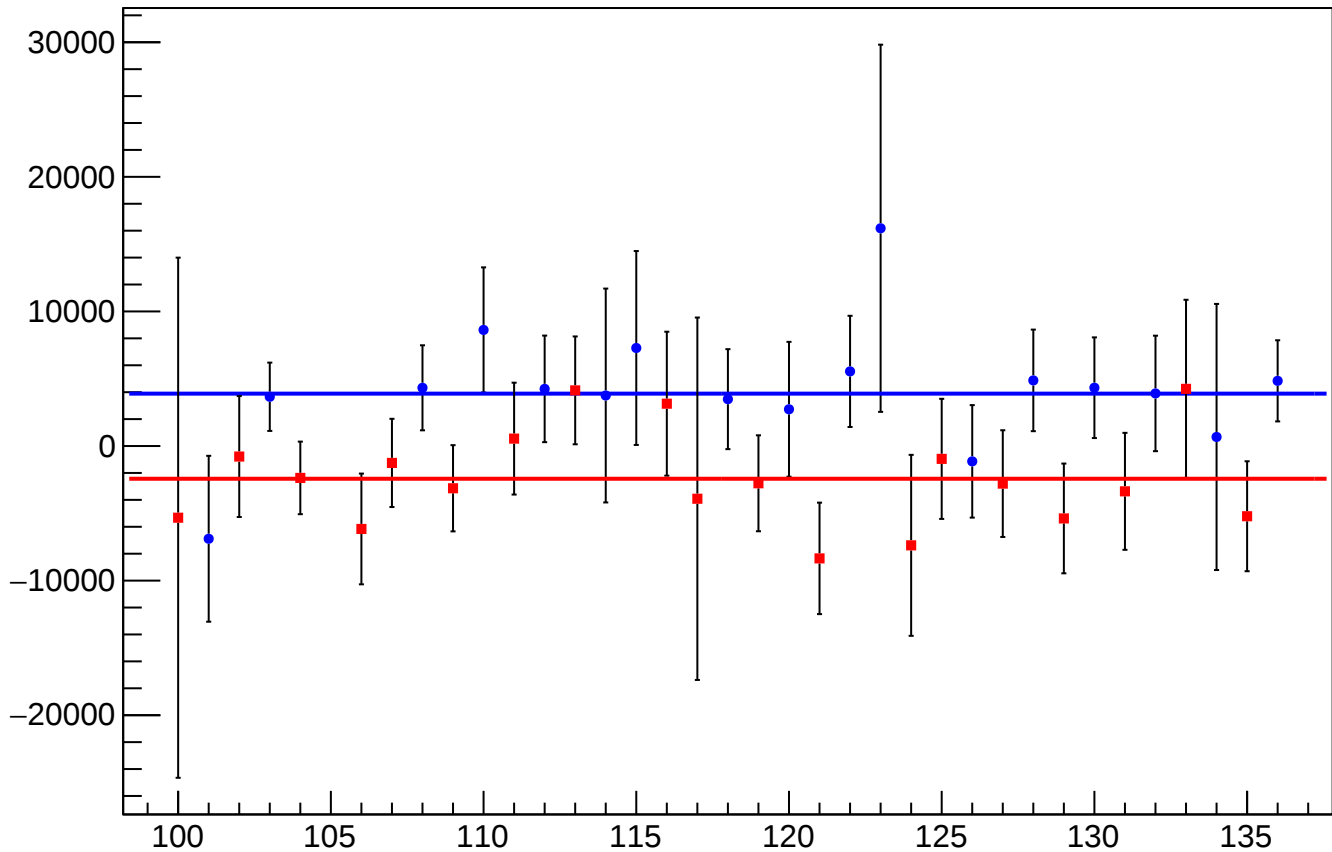
Right Out: 2896.924+/-0.793  $\chi^2/\text{NDF}$ : 168762.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2928.700+/-0.823  $\chi^2/\text{NDF}$ : 662362.9/16

2896.924+/-0.793  $\chi^2/\text{NDF}$ : 168762.5/18

# reg\_asym\_atr2\_mean vs Slug



Right In: 3892.504+/-1011.718  $\chi^2/\text{NDF}$ : 7.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

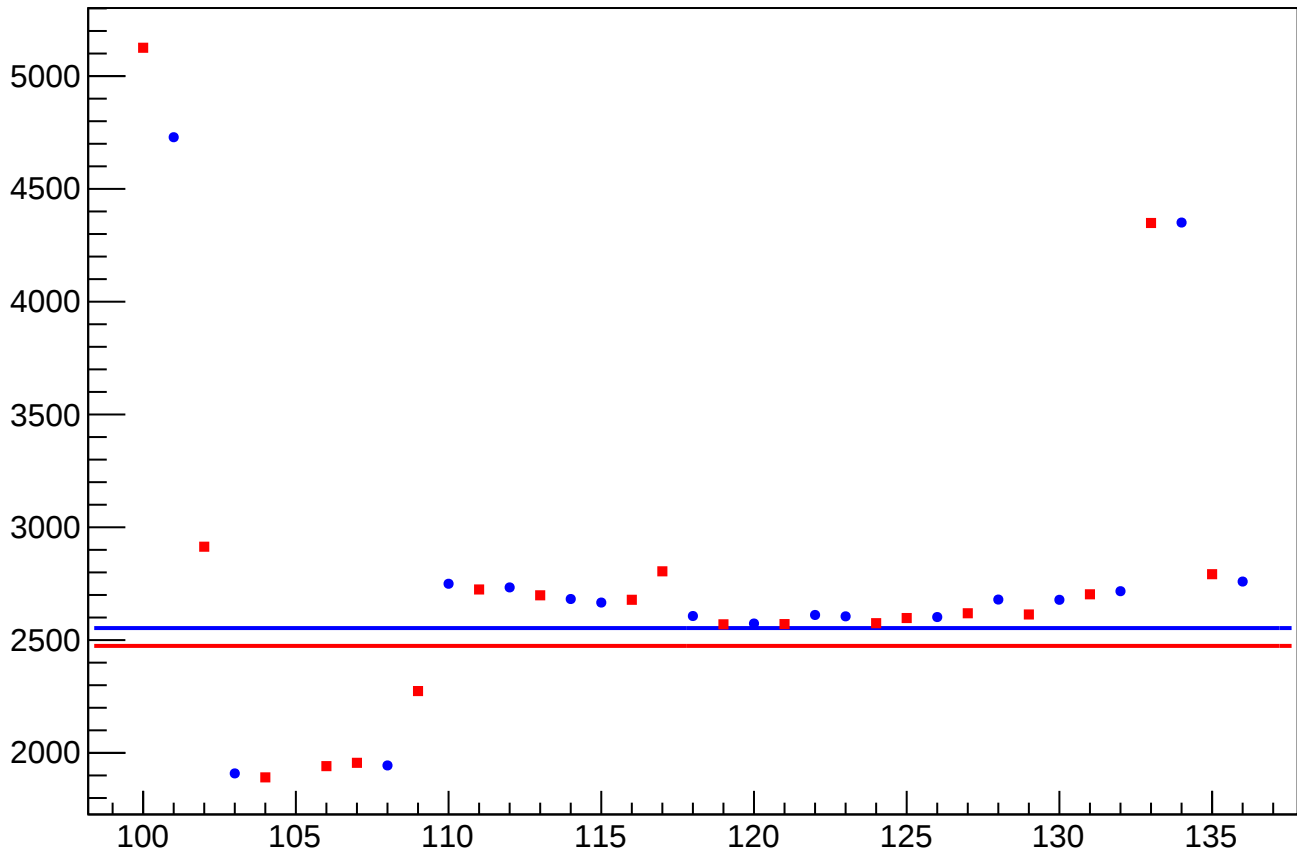
3892.504+/-1011.718  $\chi^2/\text{NDF}$ : 7.1/16

Right Out: -2431.269+/-967.127  $\chi^2/\text{NDF}$ : 10.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2431.269+/-967.127  $\chi^2/\text{NDF}$ : 10.2/18

# reg\_asym\_atr2\_rms vs Slug



Right In: 2553.280+/-0.715  $\chi^2/\text{NDF}$ : 545226.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

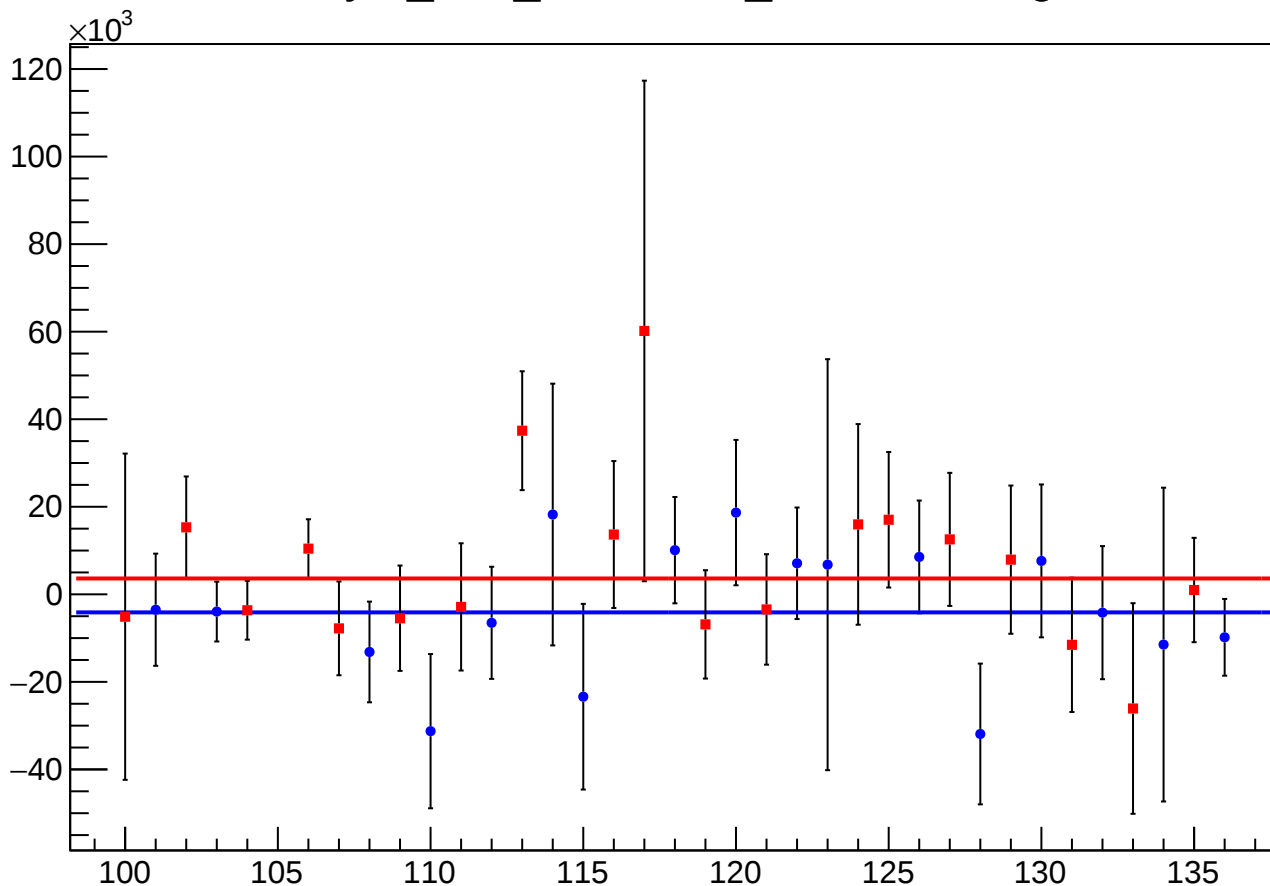
2553.280+/-0.715  $\chi^2/\text{NDF}$ : 545226.9/16

Right Out: 2474.219+/-0.684  $\chi^2/\text{NDF}$ : 446978.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2474.219+/-0.684  $\chi^2/\text{NDF}$ : 446978.2/18

# asym\_atr2\_correction\_mean vs Slug



Right In: -4126.319 $\pm$ 3227.044  $\chi^2$ /NDF: 13.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

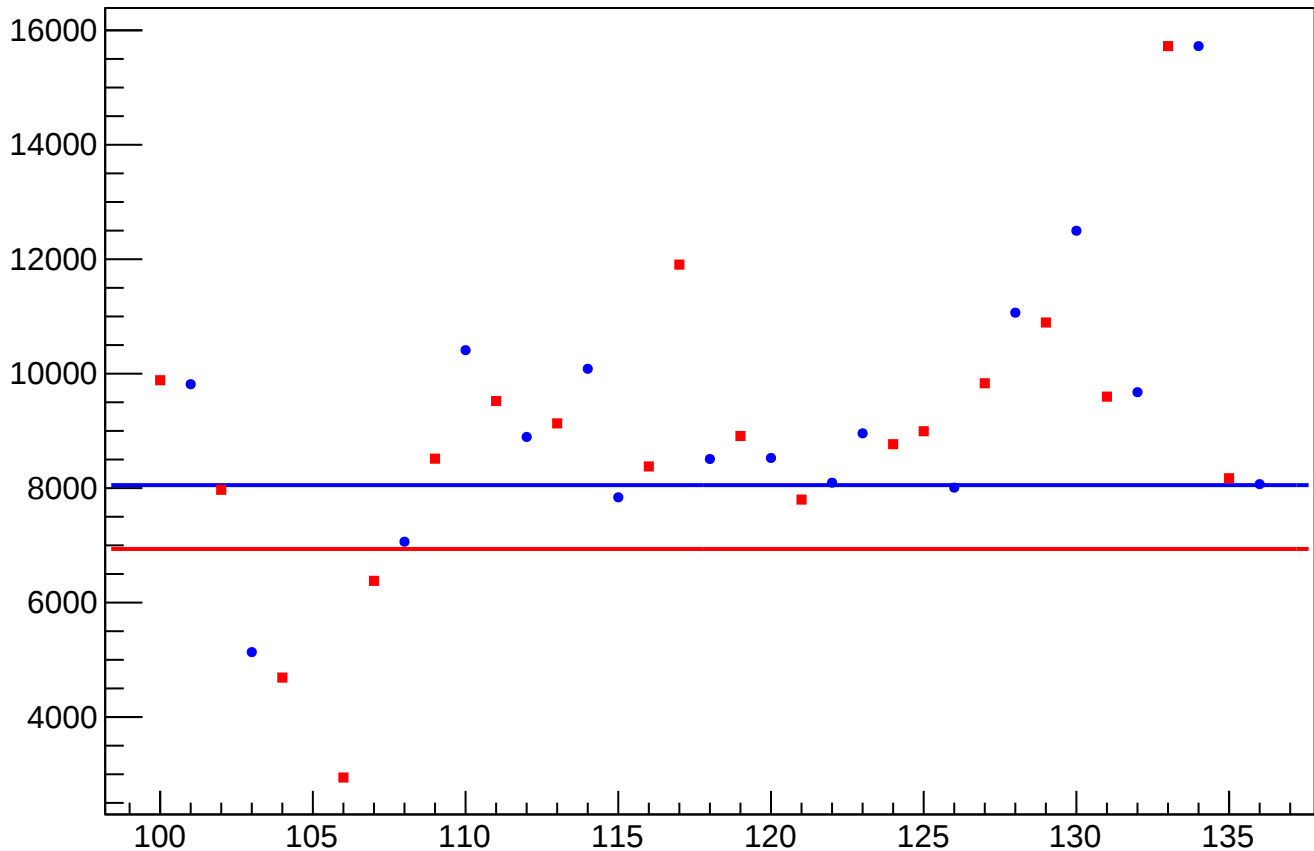
Right Out: 3618.598 $\pm$ 2864.558  $\chi^2$ /NDF: 17.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-4126.319 $\pm$ 3227.044  $\chi^2$ /NDF: 13.4/16

3618.598 $\pm$ 2864.558  $\chi^2$ /NDF: 17.7/18

# asym\_atr2\_correction\_rms vs Slug



Right In: 8052.552 $\pm$ 2.282  $\chi^2$ /NDF: 790724.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

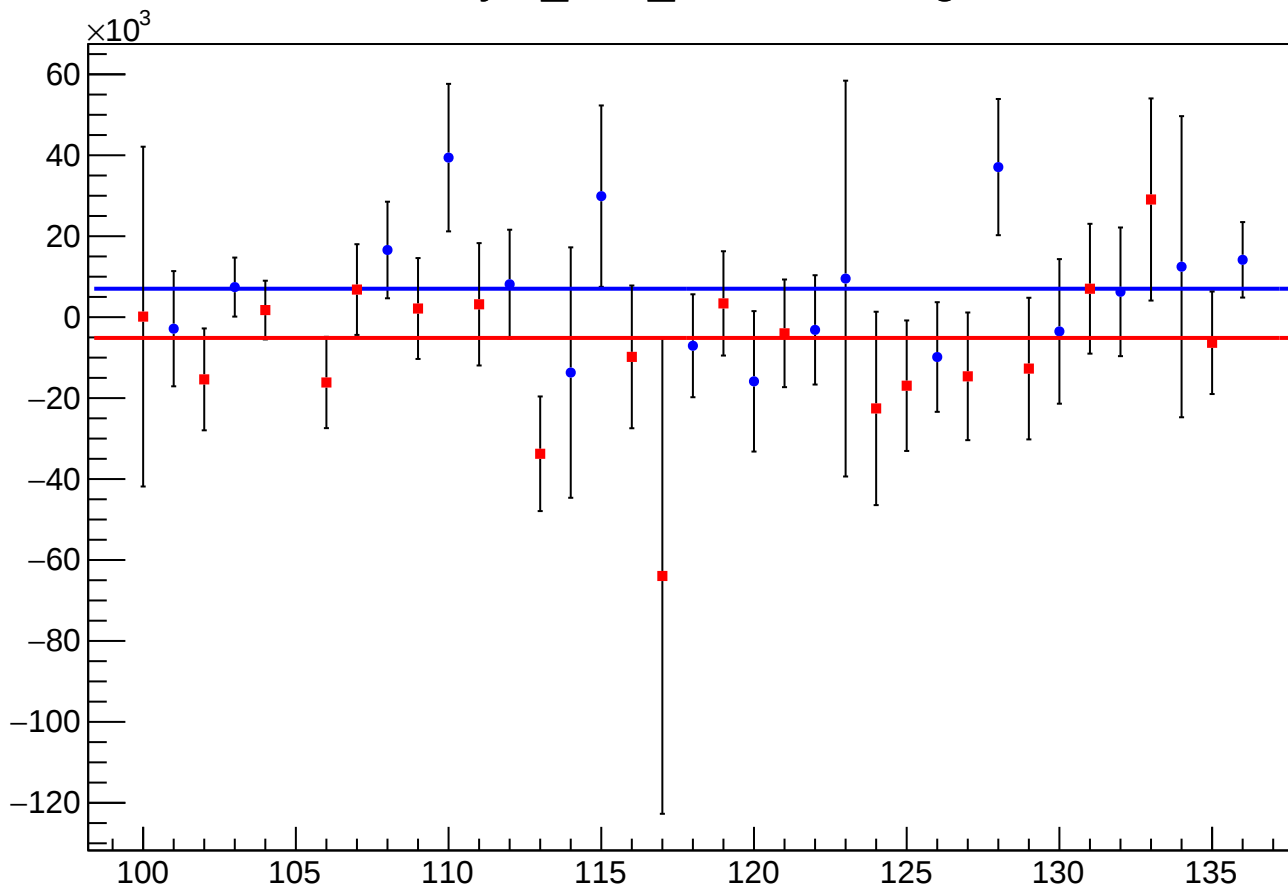
8052.552 $\pm$ 2.282  $\chi^2$ /NDF: 790724.2/16

Right Out: 6937.119 $\pm$ 2.026  $\chi^2$ /NDF: 1784536.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

6937.119 $\pm$ 2.026  $\chi^2$ /NDF: 1784536.8/18

# asym\_atr2\_mean vs Slug



Right In: 7025.400+/-3409.490  $\chi^2/\text{NDF}$ : 15.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

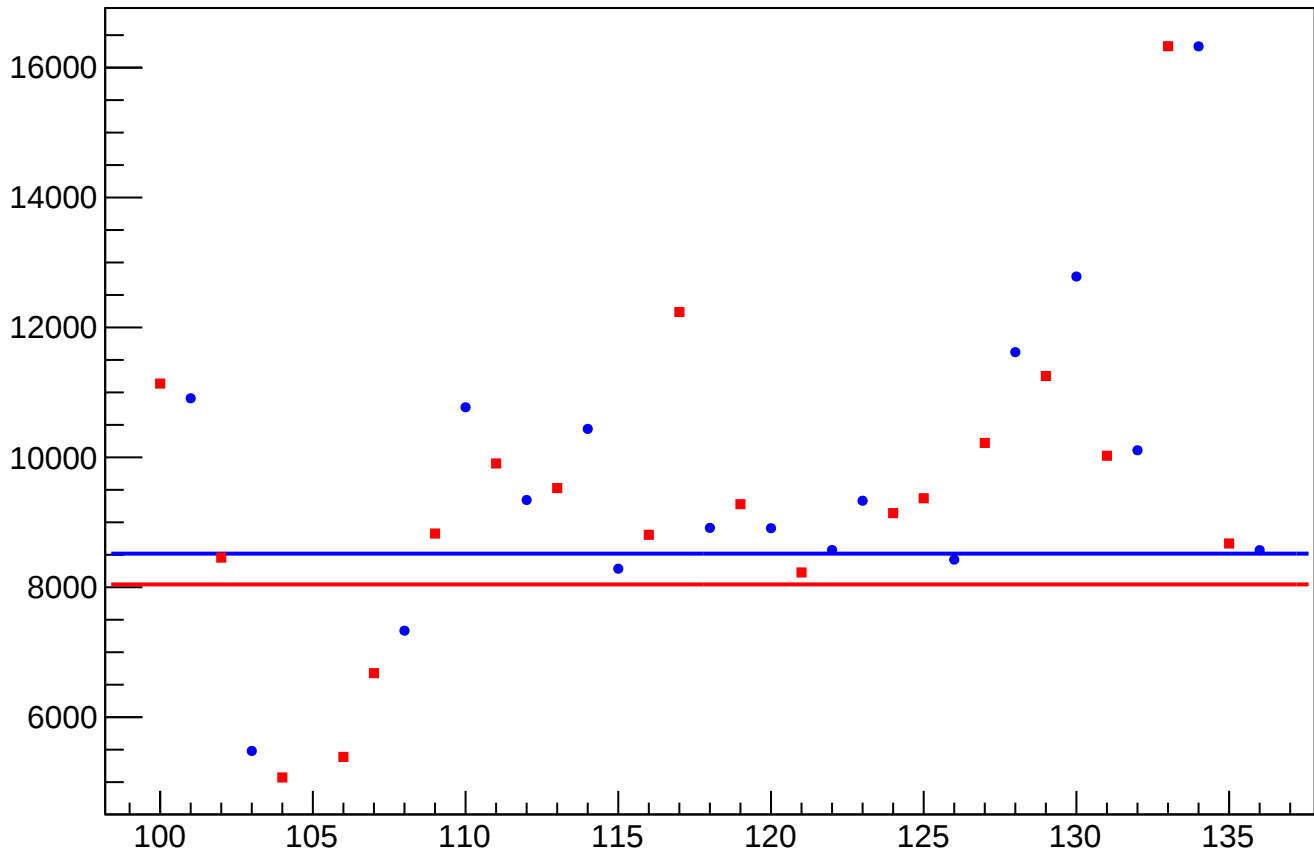
Right Out: -5133.486+/-3205.811  $\chi^2/\text{NDF}$ : 14.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7025.400+/-3409.490  $\chi^2/\text{NDF}$ : 15.0/16

-5133.486+/-3205.811  $\chi^2/\text{NDF}$ : 14.0/18

# asym\_atr2\_rms vs Slug



Right In: 8517.886+/-2.411  $\chi^2/\text{NDF}$ : 763281.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

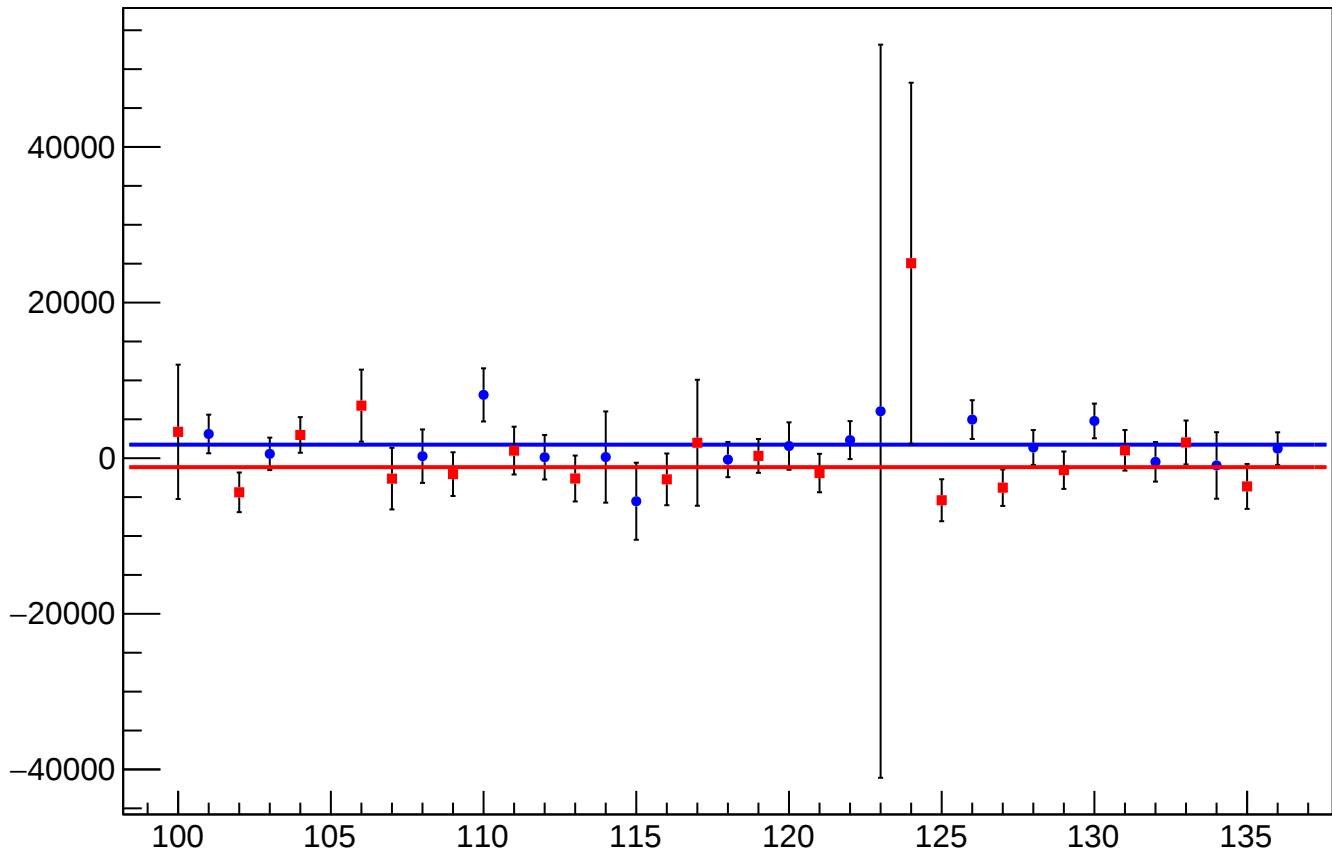
8517.886+/-2.411  $\chi^2/\text{NDF}$ : 763281.4/16

Right Out: 8044.089+/-2.267  $\chi^2/\text{NDF}$ : 961199.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

8044.089+/-2.267  $\chi^2/\text{NDF}$ : 961199.8/18

# reg\_asym\_atl\_avg\_mean vs Slug



Right In: 1739.640+/-670.395  $\chi^2/\text{NDF}$ : 12.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

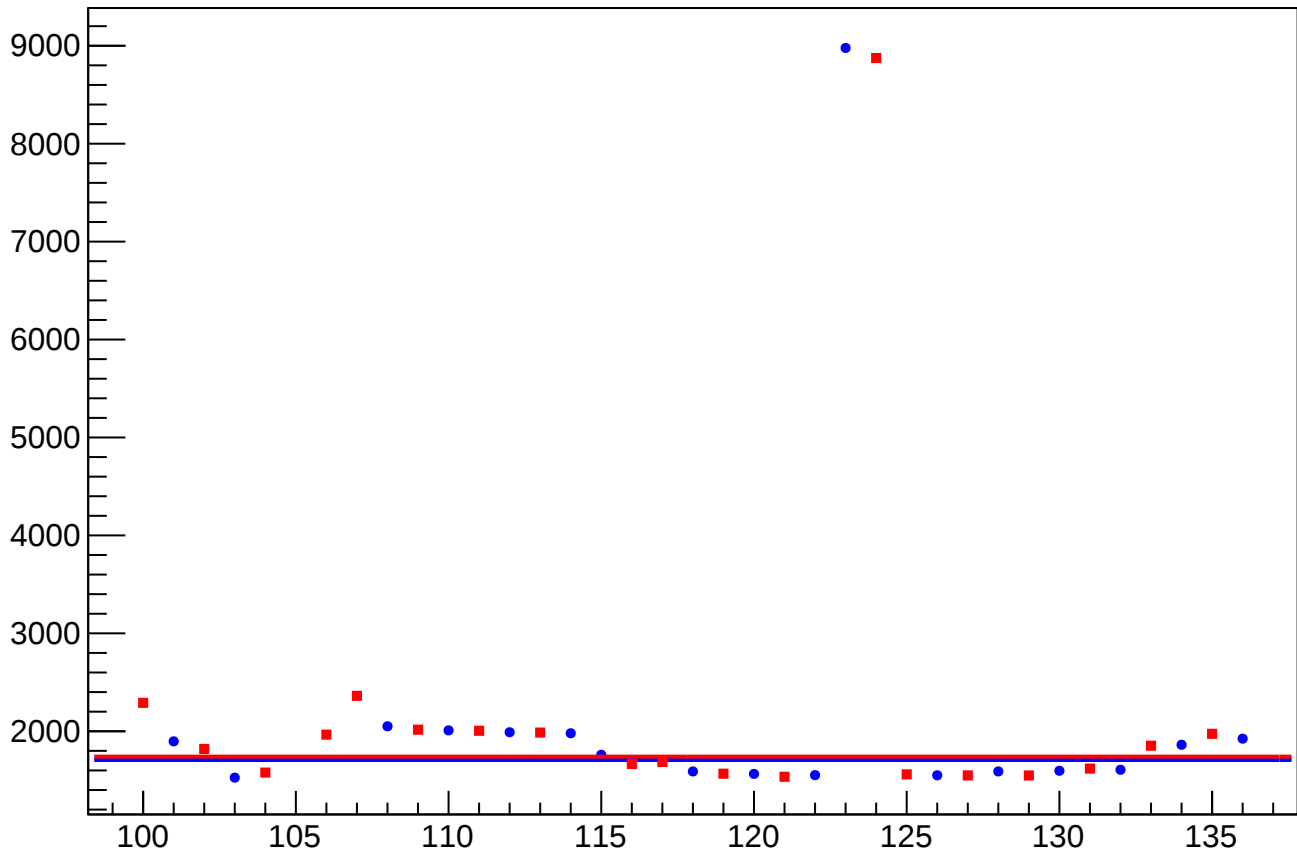
Right Out: -1151.846+/-676.487  $\chi^2/\text{NDF}$ : 17.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1739.640+/-670.395  $\chi^2/\text{NDF}$ : 12.4/16

-1151.846+/-676.487  $\chi^2/\text{NDF}$ : 17.7/18

# reg\_asym\_atl\_avg\_rms vs Slug



Right In: 1706.867+/-0.474  $\chi^2/\text{NDF}$ : 197555.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

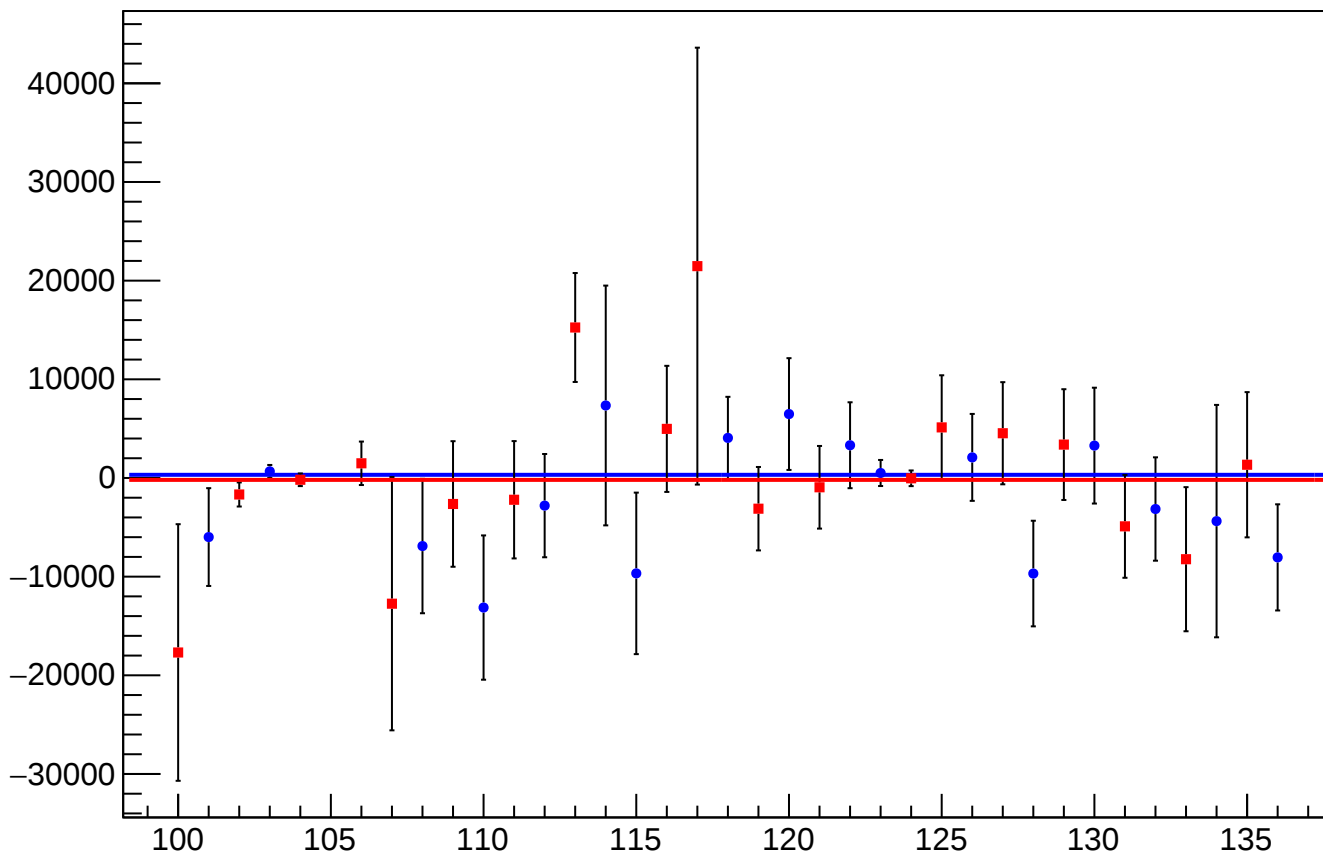
1706.867+/-0.474  $\chi^2/\text{NDF}$ : 197555.1/16

Right Out: 1740.940+/-0.476  $\chi^2/\text{NDF}$ : 396656.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1740.940+/-0.476  $\chi^2/\text{NDF}$ : 396656.2/18

# asym\_atl\_avg\_correction\_mean vs Slug



Right In: 320.899+/-540.384  $\chi^2/\text{NDF}$ : 18.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

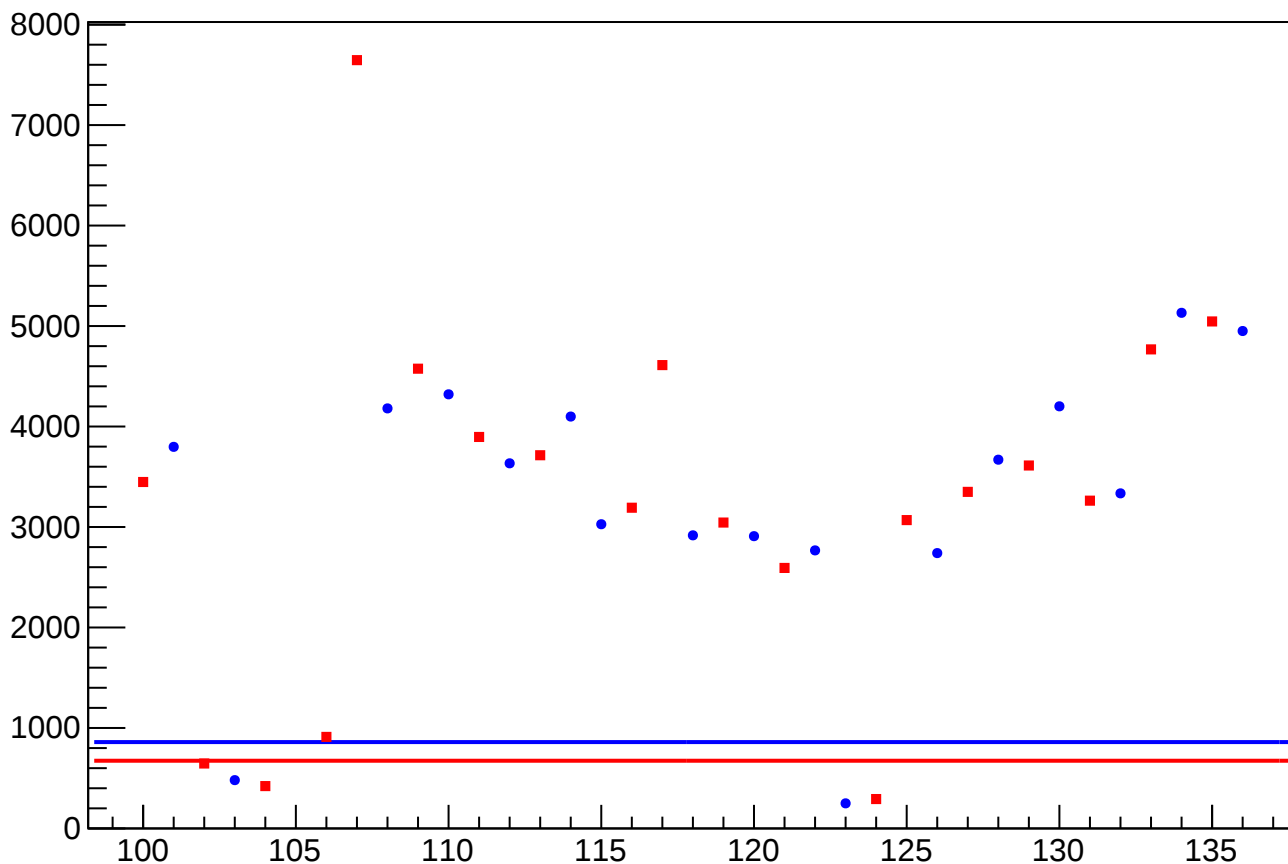
Right Out: -193.298+/-433.778  $\chi^2/\text{NDF}$ : 19.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

320.899+/-540.384  $\chi^2/\text{NDF}$ : 18.0/16

-193.298+/-433.778  $\chi^2/\text{NDF}$ : 19.4/18

# asym\_atl\_avg\_correction\_rms vs Slug



Right In: 859.557+/-0.382  $\chi^2/\text{NDF}$ : 8143264.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

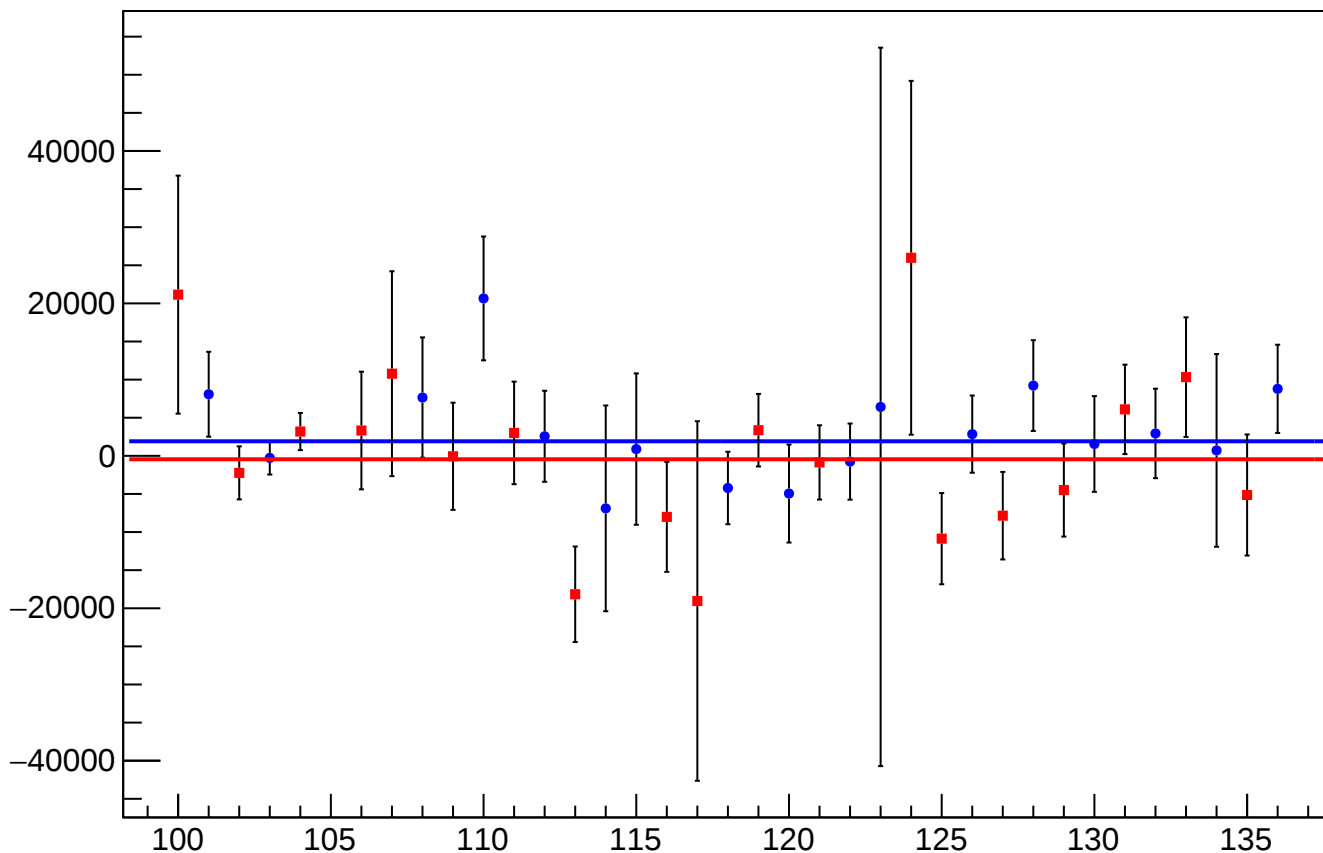
Right Out: 673.955+/-0.307  $\chi^2/\text{NDF}$ : 8165359.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

859.557+/-0.382  $\chi^2/\text{NDF}$ : 8143264.5/16

673.955+/-0.307  $\chi^2/\text{NDF}$ : 8165359.5/18

# asym\_atl\_avg\_mean vs Slug



Right In: 1909.348+/-1310.219  $\chi^2/\text{NDF}$ : 14.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

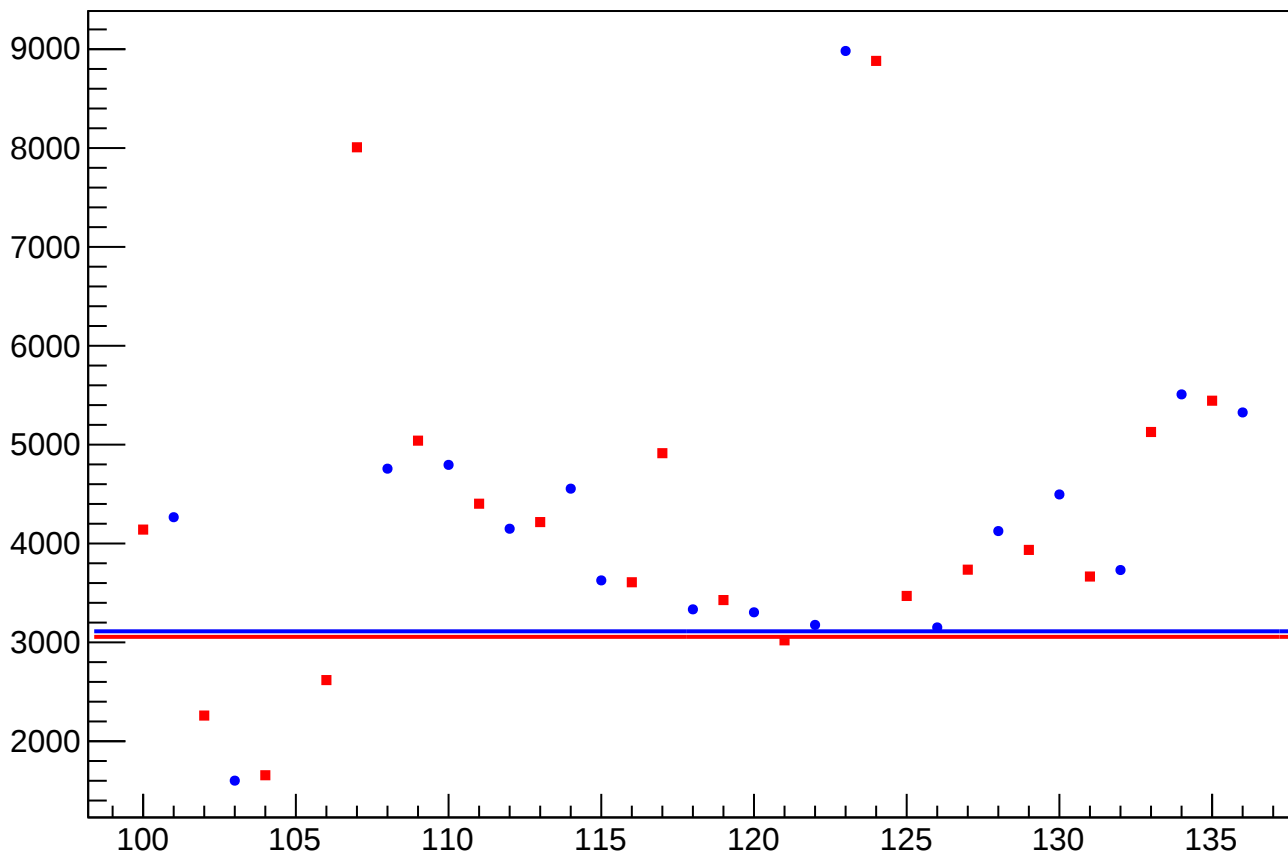
Right Out: -451.398+/-1290.958  $\chi^2/\text{NDF}$ : 25.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1909.348+/-1310.219  $\chi^2/\text{NDF}$ : 14.6/16

-451.398+/-1290.958  $\chi^2/\text{NDF}$ : 25.9/18

# asym\_atl\_avg\_rms vs Slug



Right In: 3111.825+/-0.926  $\chi^2/\text{NDF}$ : 1879558.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

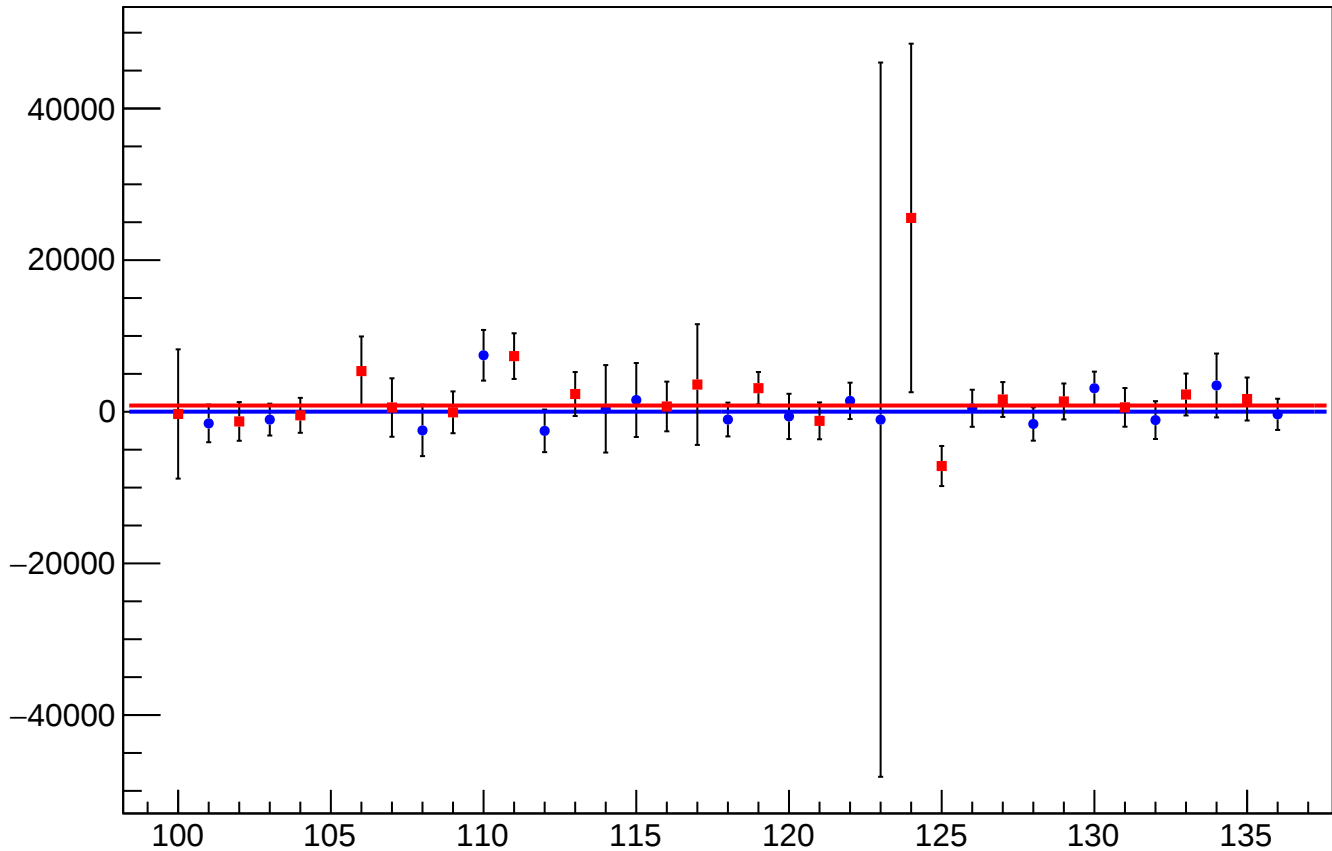
Right Out: 3055.793+/-0.900  $\chi^2/\text{NDF}$ : 1948917.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3111.825+/-0.926  $\chi^2/\text{NDF}$ : 1879558.6/16

3055.793+/-0.900  $\chi^2/\text{NDF}$ : 1948917.3/18

# reg\_asym\_atl\_dd\_mean vs Slug



Right In: 14.118+/-661.101  $\chi^2/\text{NDF}$ : 11.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

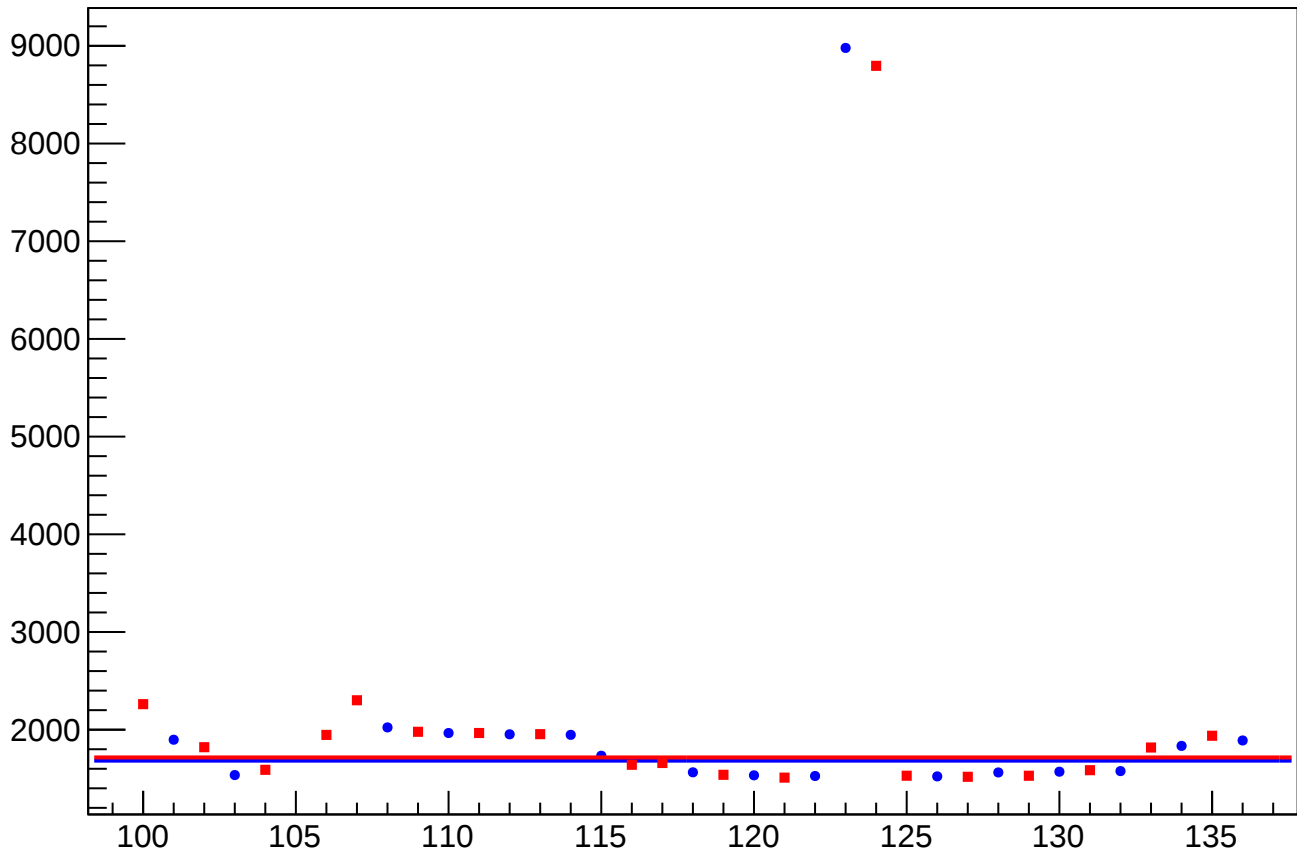
Right Out: 825.424+/-666.581  $\chi^2/\text{NDF}$ : 19.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14.118+/-661.101  $\chi^2/\text{NDF}$ : 11.1/16

825.424+/-666.581  $\chi^2/\text{NDF}$ : 19.8/18

# reg\_asym\_atl\_dd\_rms vs Slug



Right In: 1683.259 $\pm$ 0.467  $\chi^2$ /NDF: 195893.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

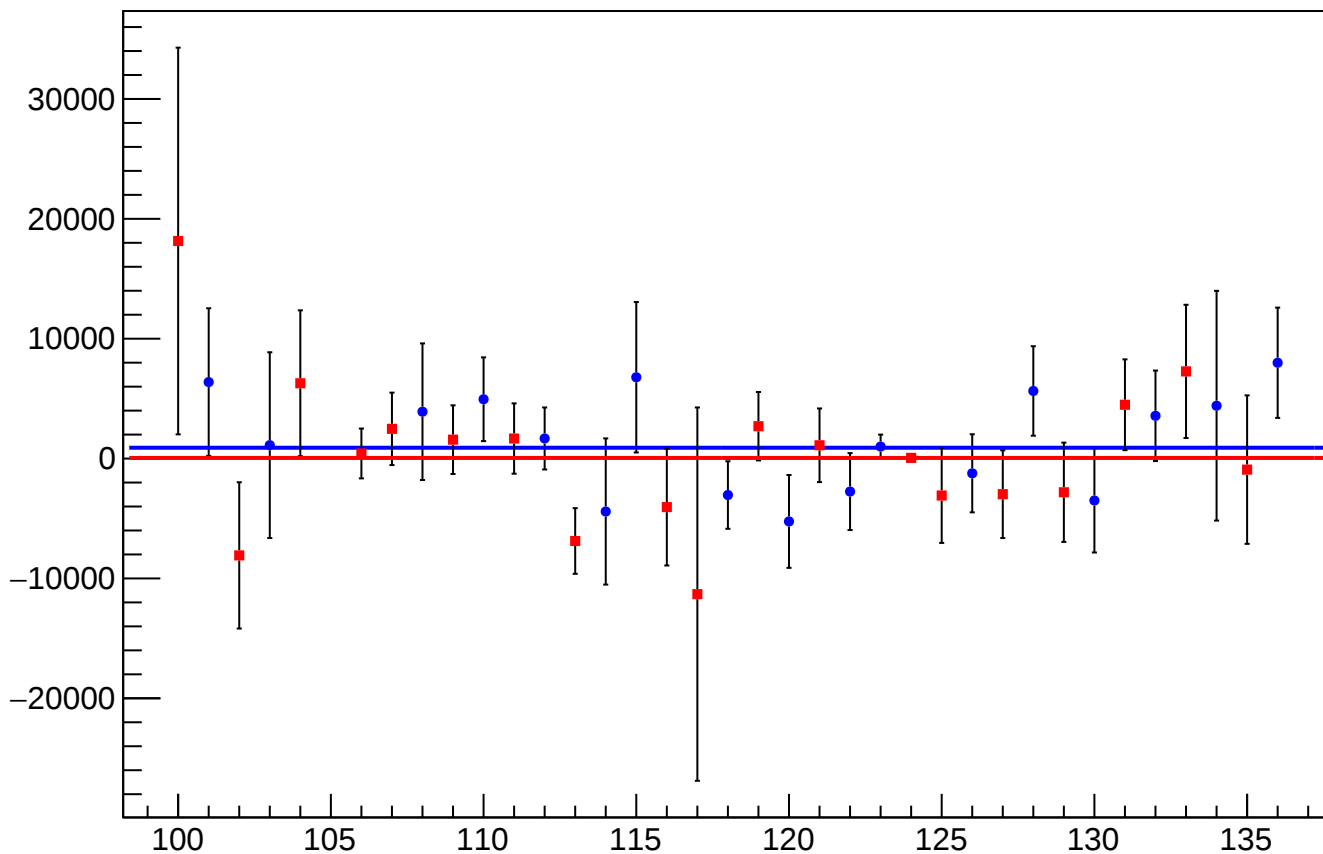
1683.259 $\pm$ 0.467  $\chi^2$ /NDF: 195893.7/16

Right Out: 1715.994 $\pm$ 0.469  $\chi^2$ /NDF: 393078.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1715.994 $\pm$ 0.469  $\chi^2$ /NDF: 393078.5/18

# asym\_atl\_dd\_correction\_mean vs Slug



Right In: 903.344+/-705.564  $\chi^2/\text{NDF}$ : 16.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

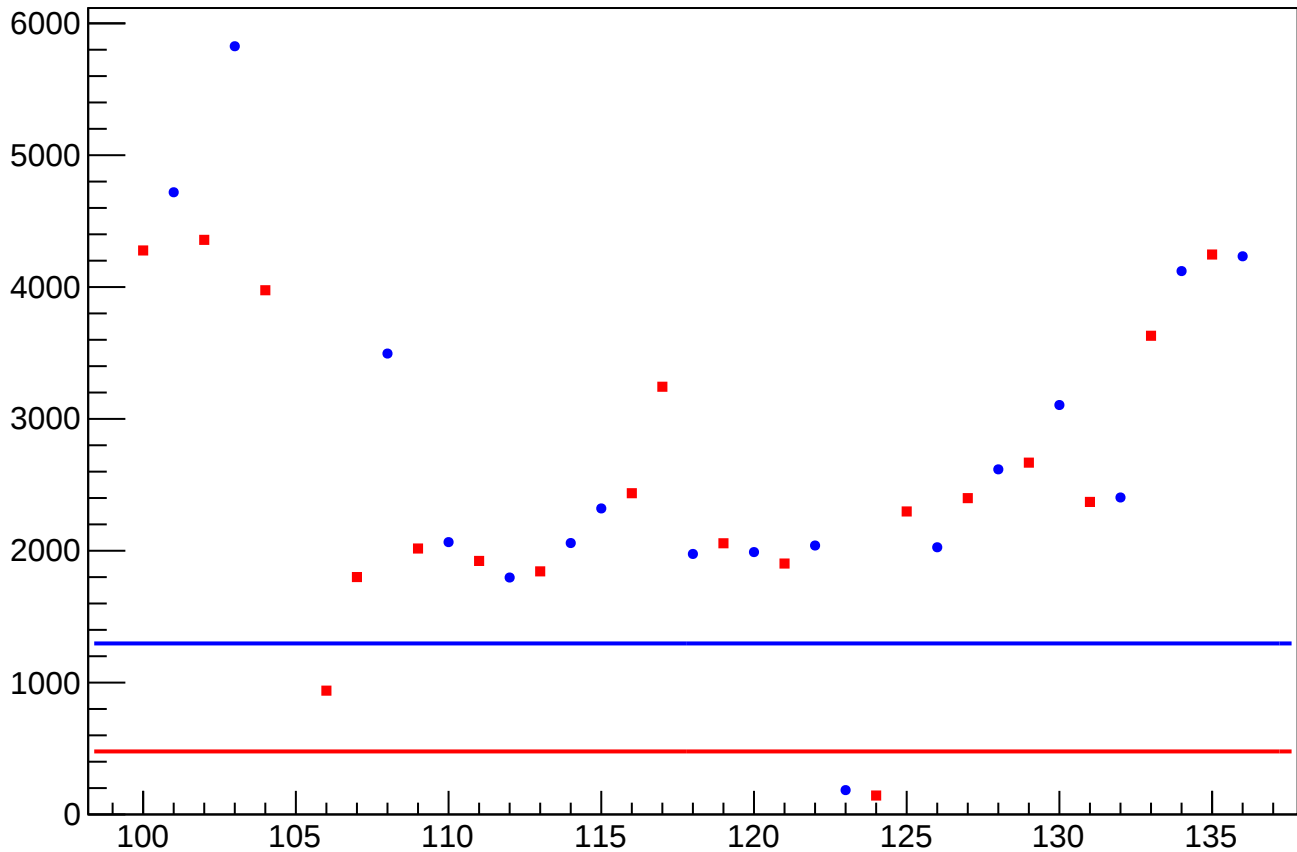
Right Out: 51.873+/-357.328  $\chi^2/\text{NDF}$ : 18.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

903.344+/-705.564  $\chi^2/\text{NDF}$ : 16.0/16

51.873+/-357.328  $\chi^2/\text{NDF}$ : 18.8/18

# asym\_atl\_dd\_correction\_rms vs Slug



Right In: 1297.005+/-0.499  $\chi^2/\text{NDF}$ : 6509608.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

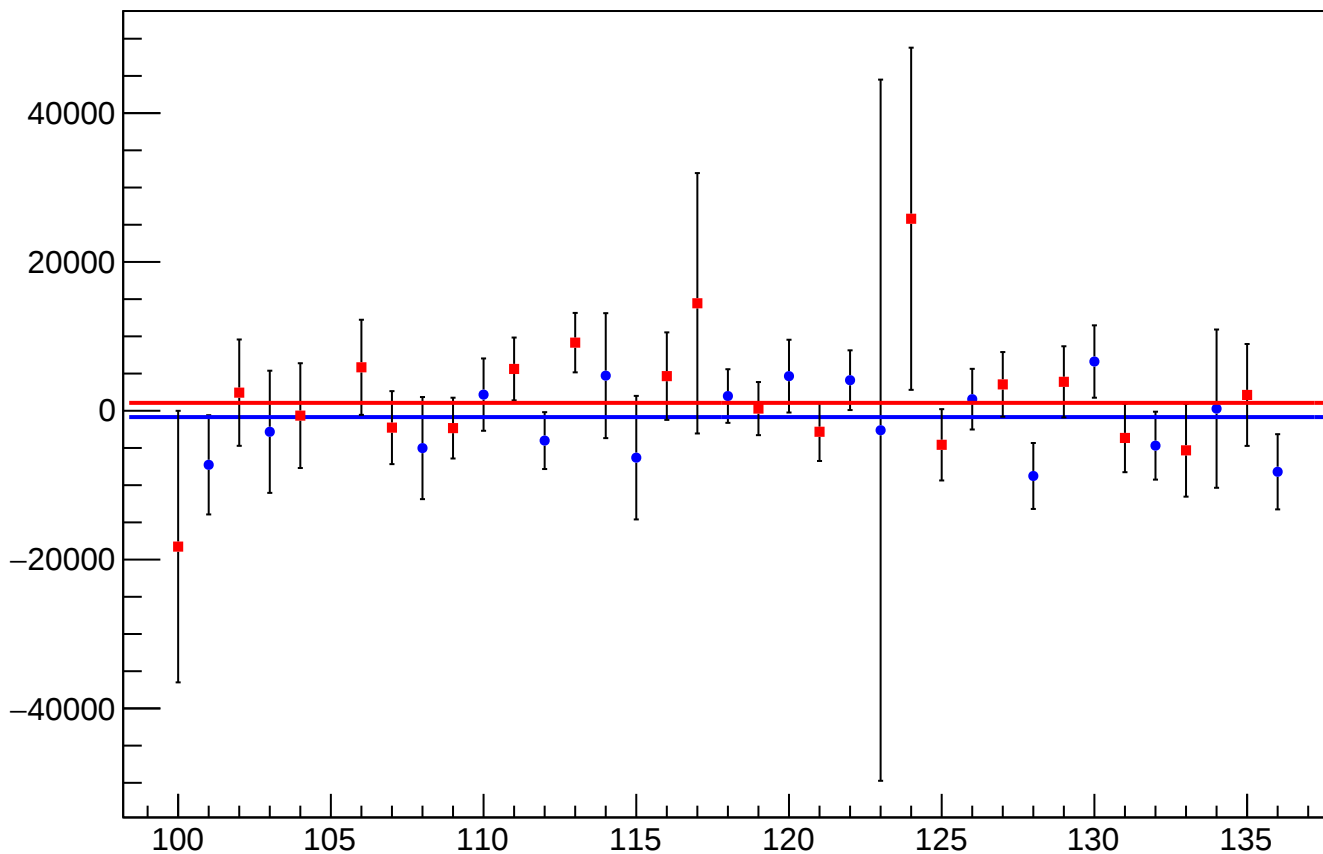
1297.005+/-0.499  $\chi^2/\text{NDF}$ : 6509608.5/16

Right Out: 477.929+/-0.253  $\chi^2/\text{NDF}$ : 9910797.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

477.929+/-0.253  $\chi^2/\text{NDF}$ : 9910797.6/18

# asym\_atl\_dd\_mean vs Slug



Right In: -849.372+/-1261.026  $\chi^2/\text{NDF}$ : 15.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

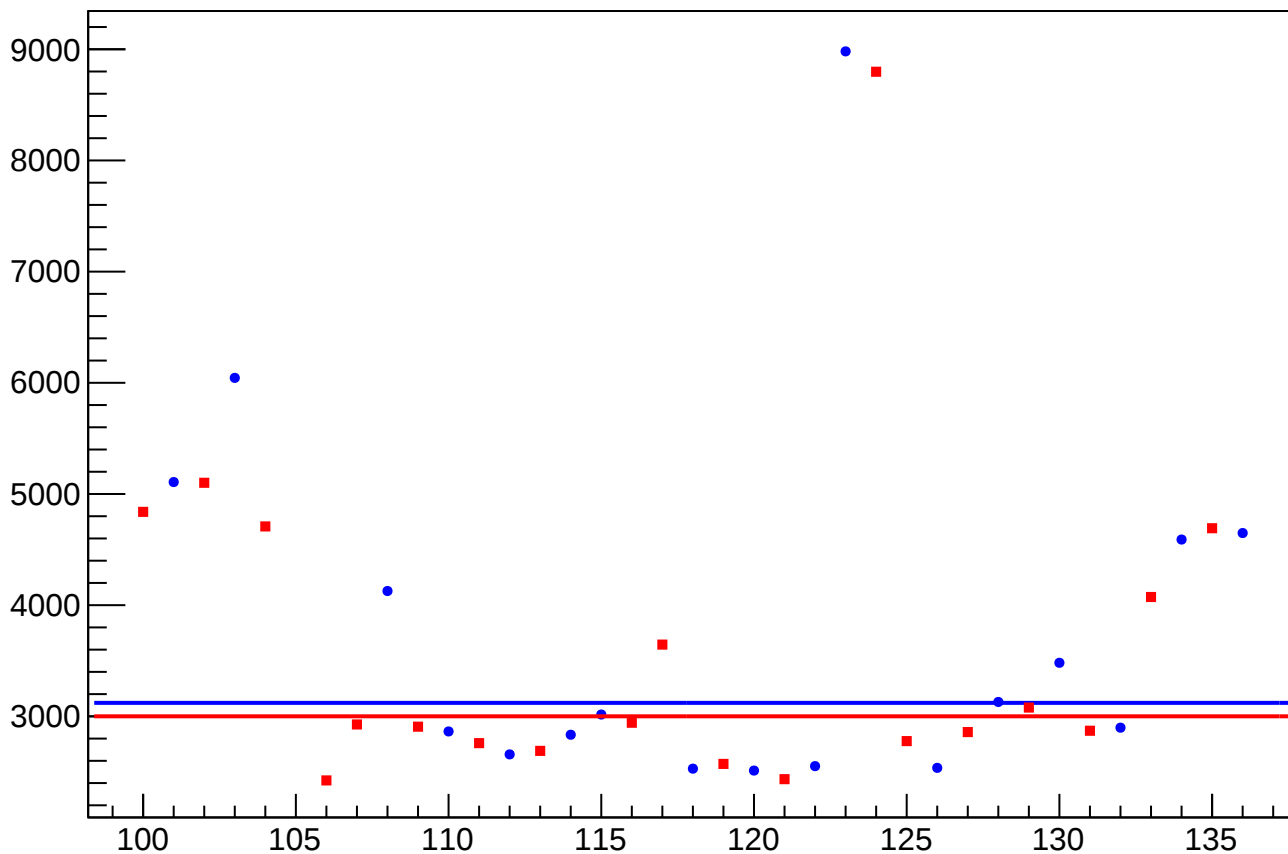
Right Out: 1061.890+/-1195.545  $\chi^2/\text{NDF}$ : 15.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-849.372+/-1261.026  $\chi^2/\text{NDF}$ : 15.4/16

1061.890+/-1195.545  $\chi^2/\text{NDF}$ : 15.5/18

# asym\_atl\_dd\_rms vs Slug



Right In: 3121.417+/-0.892  $\chi^2/\text{NDF}$ : 945708.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

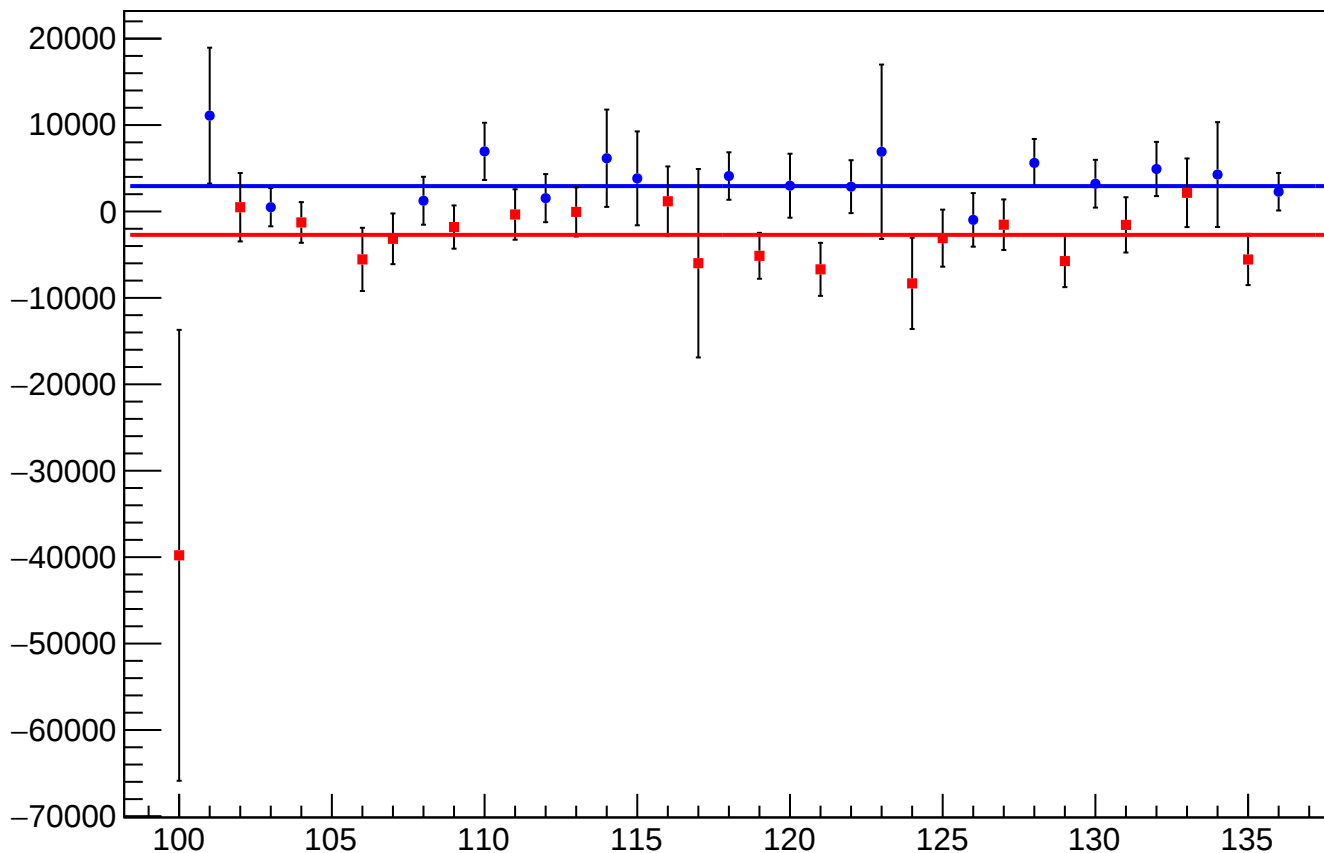
Right Out: 3000.383+/-0.835  $\chi^2/\text{NDF}$ : 749587.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3121.417+/-0.892  $\chi^2/\text{NDF}$ : 945708.1/16

3000.383+/-0.835  $\chi^2/\text{NDF}$ : 749587.6/18

# reg\_asym\_atr\_avg\_mean vs Slug



Right In: 2935.827+/-775.365  $\chi^2/\text{NDF}$ : 8.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

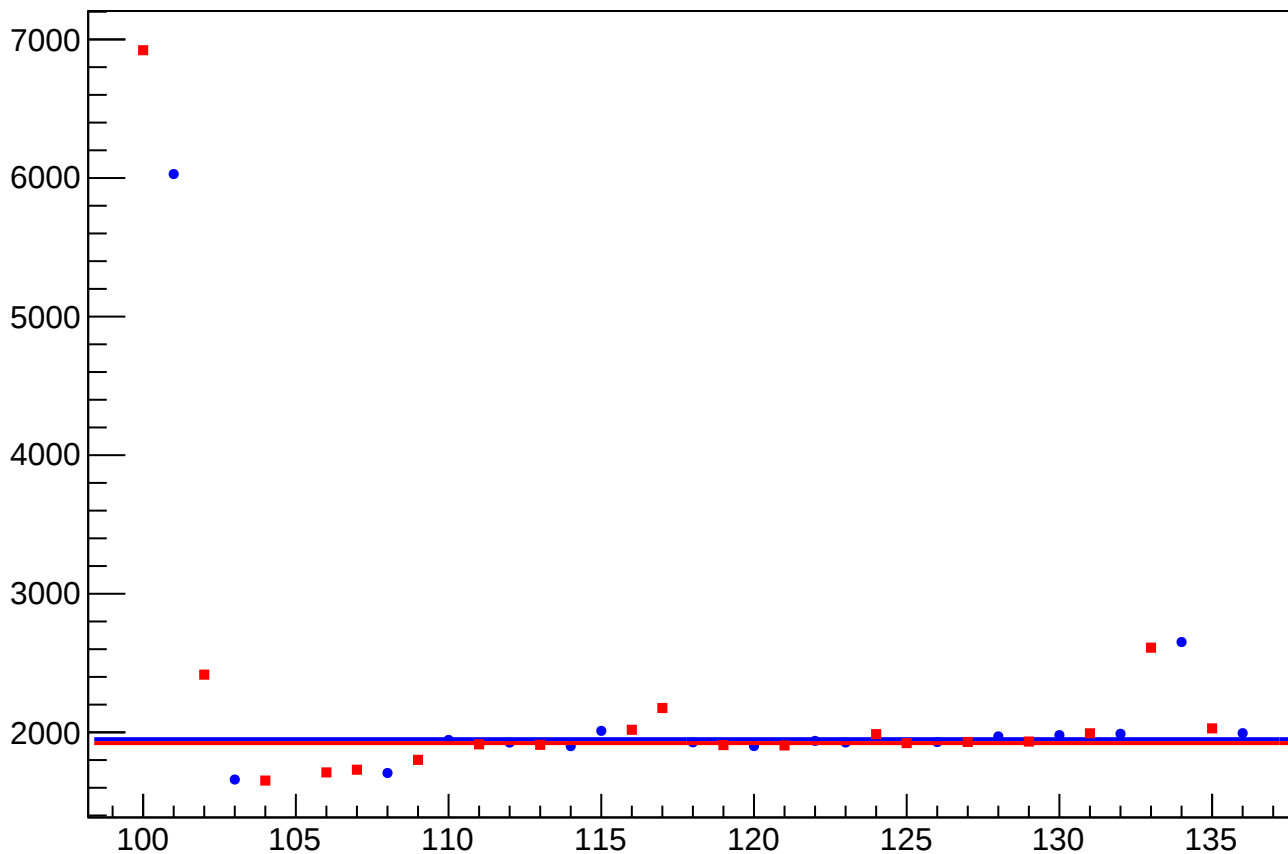
Right Out: -2706.106+/-748.541  $\chi^2/\text{NDF}$ : 13.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2935.827+/-775.365  $\chi^2/\text{NDF}$ : 8.2/16

-2706.106+/-748.541  $\chi^2/\text{NDF}$ : 13.8/18

reg\_asym\_atr\_avg\_rms vs Slug



Right In: 1950.615+/-0.548  $\chi^2/\text{NDF}$ : 617332.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

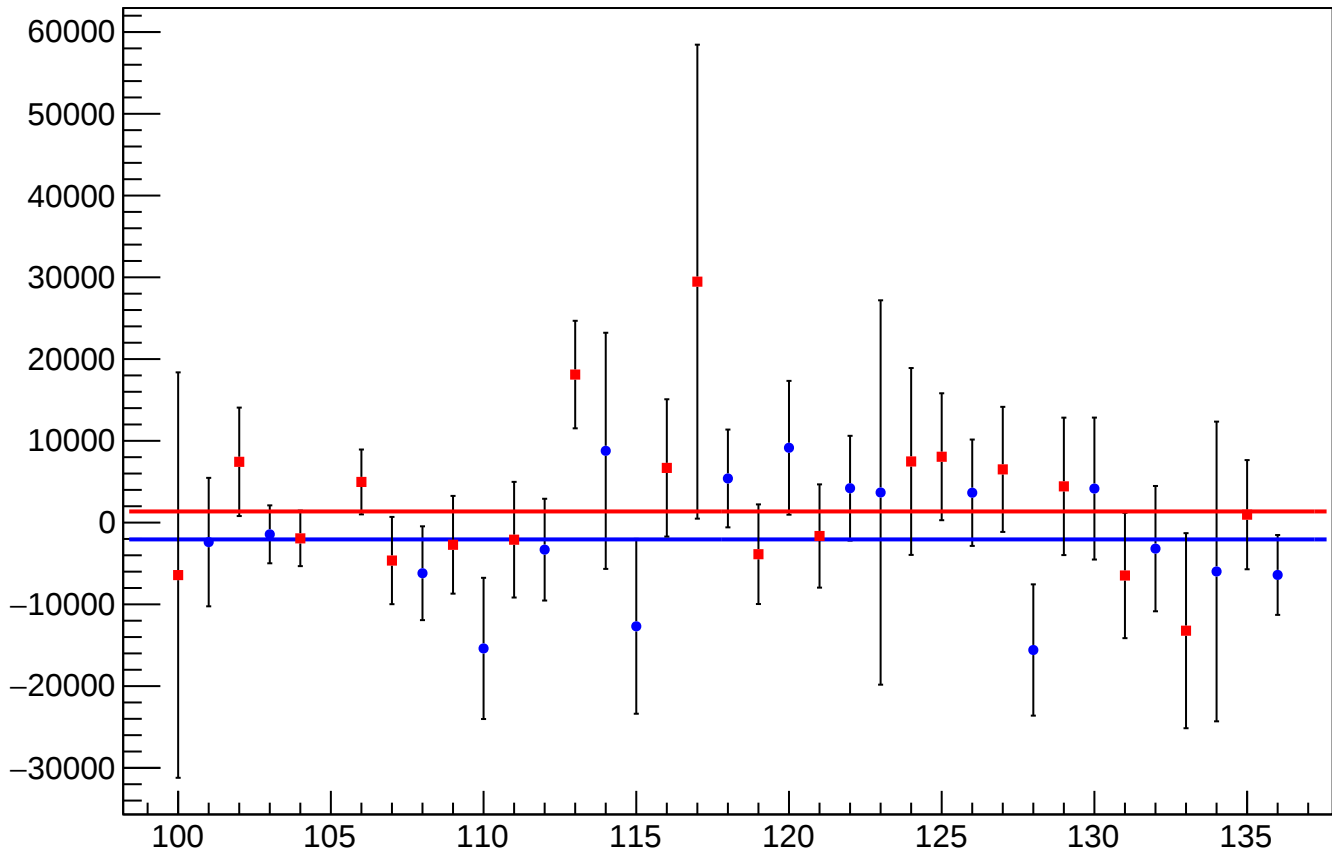
Right Out: 1922.161+/-0.528  $\chi^2/\text{NDF}$ : 218049.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1950.615+/-0.548  $\chi^2/\text{NDF}$ : 617332.2/16

1922.161+/-0.528  $\chi^2/\text{NDF}$ : 218049.6/18

# asym\_atr\_avg\_correction\_mean vs Slug



Right In: -2056.876+/-1661.079  $\chi^2/\text{NDF}$ : 14.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

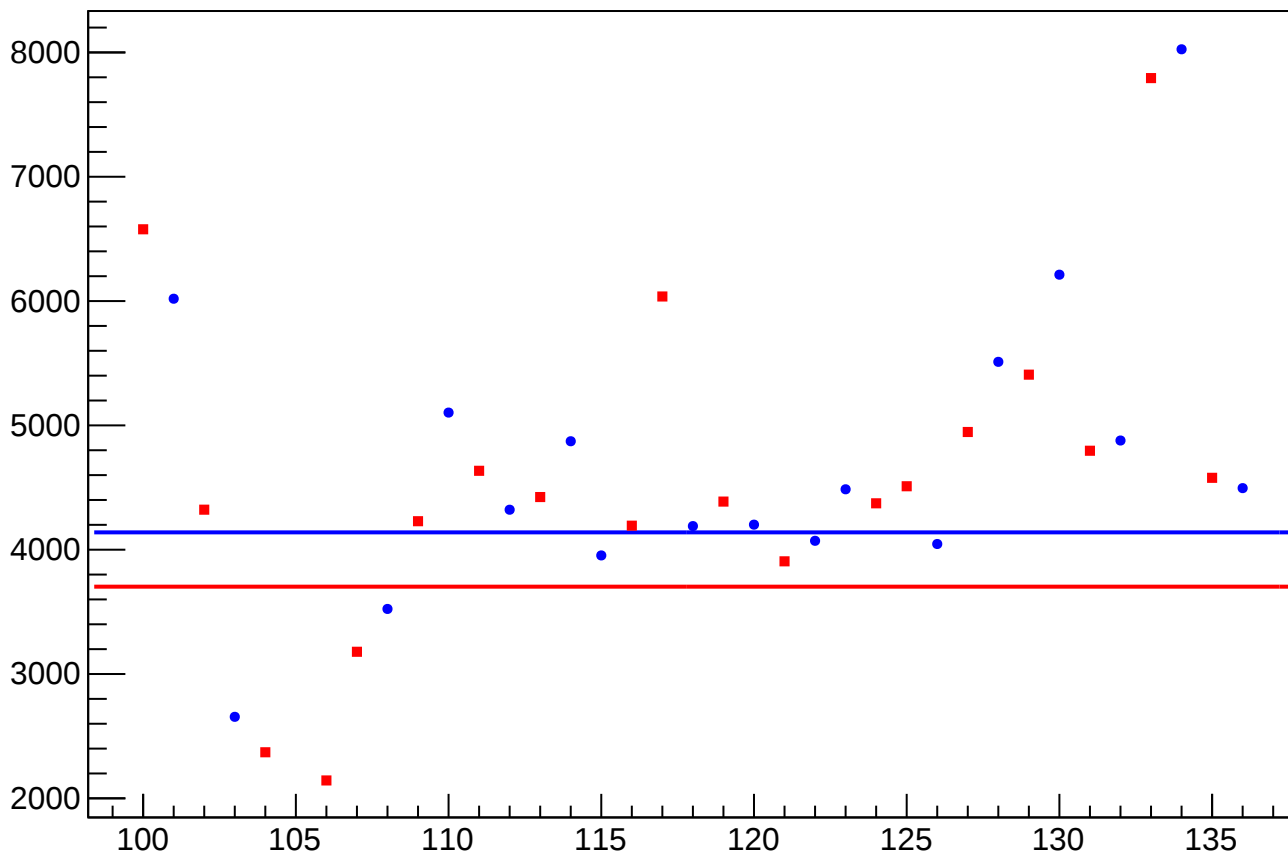
Right Out: 1363.050+/-1490.360  $\chi^2/\text{NDF}$ : 17.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2056.876+/-1661.079  $\chi^2/\text{NDF}$ : 14.0/16

1363.050+/-1490.360  $\chi^2/\text{NDF}$ : 17.6/18

# asym\_atr\_avg\_correction\_rms vs Slug



Right In: 4139.394+/-1.175  $\chi^2/\text{NDF}$ : 813550.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

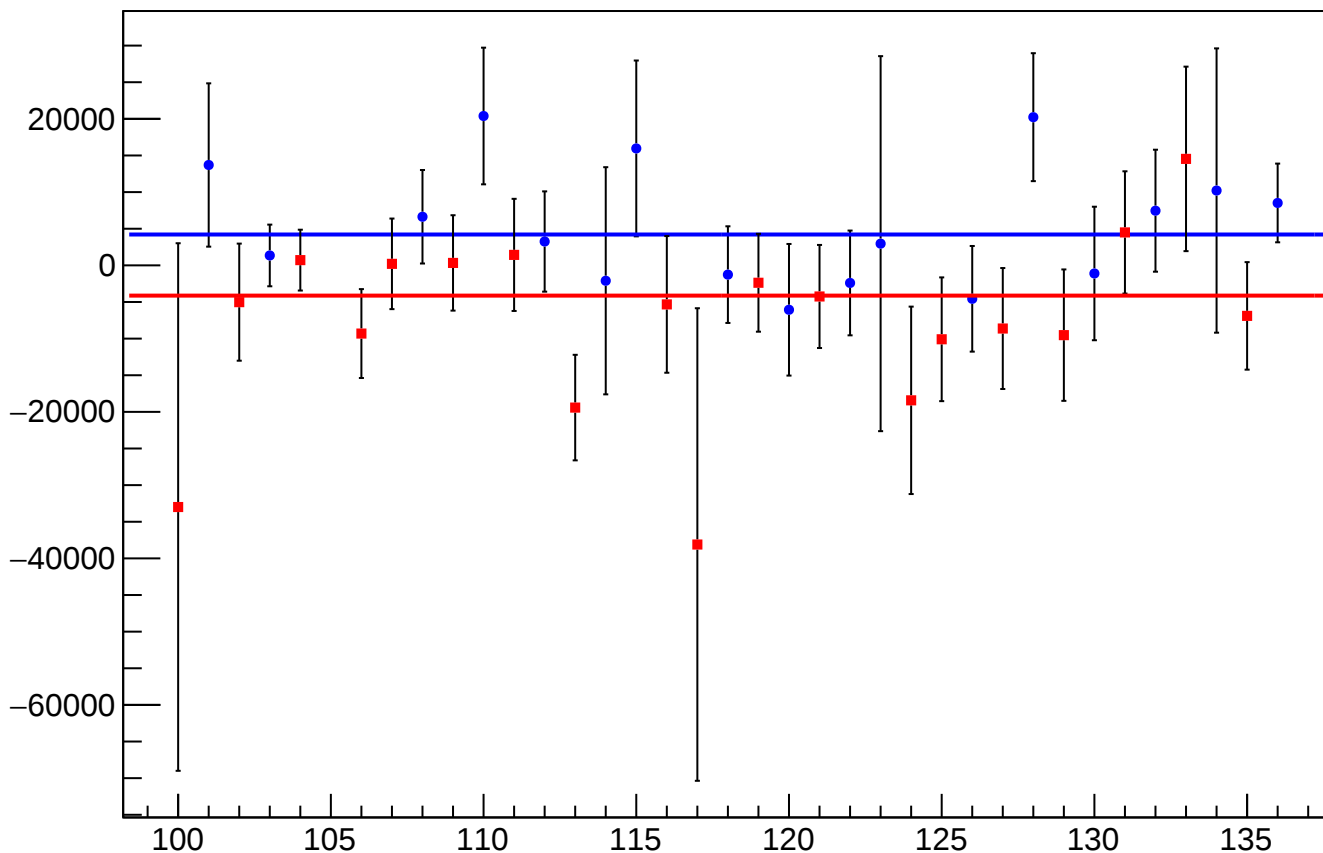
Right Out: 3702.668+/-1.054  $\chi^2/\text{NDF}$ : 1275726.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4139.394+/-1.175  $\chi^2/\text{NDF}$ : 813550.8/16

3702.668+/-1.054  $\chi^2/\text{NDF}$ : 1275726.5/18

# asym\_atr\_avg\_mean vs Slug



Right In: 4211.844+/-1871.304  $\chi^2/\text{NDF}$ : 14.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

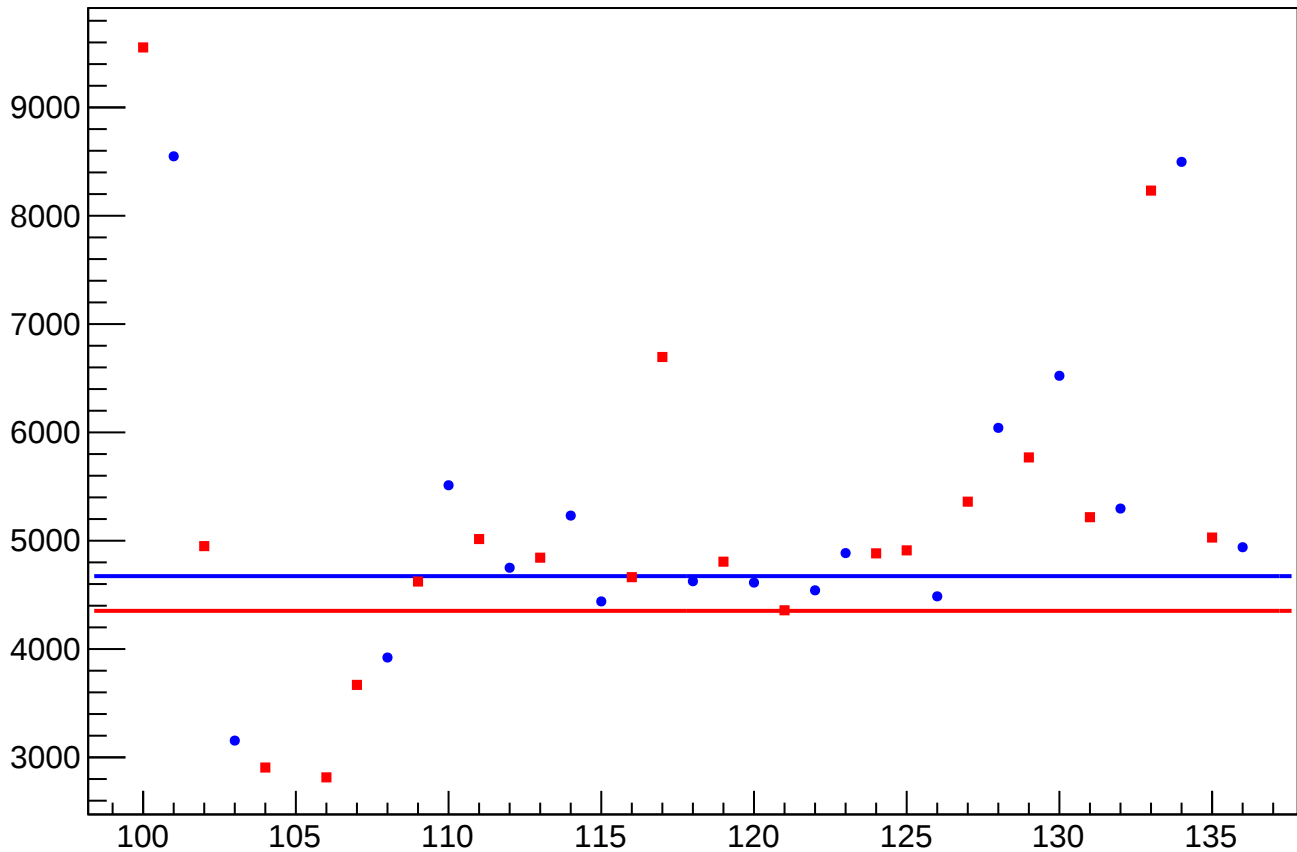
Right Out: -4129.459+/-1742.792  $\chi^2/\text{NDF}$ : 15.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4211.844+/-1871.304  $\chi^2/\text{NDF}$ : 14.4/16

-4129.459+/-1742.792  $\chi^2/\text{NDF}$ : 15.7/18

# asym\_atr\_avg\_rms vs Slug



Right In: 4673.046 $\pm$ 1.323  $\chi^2$ /NDF: 777321.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

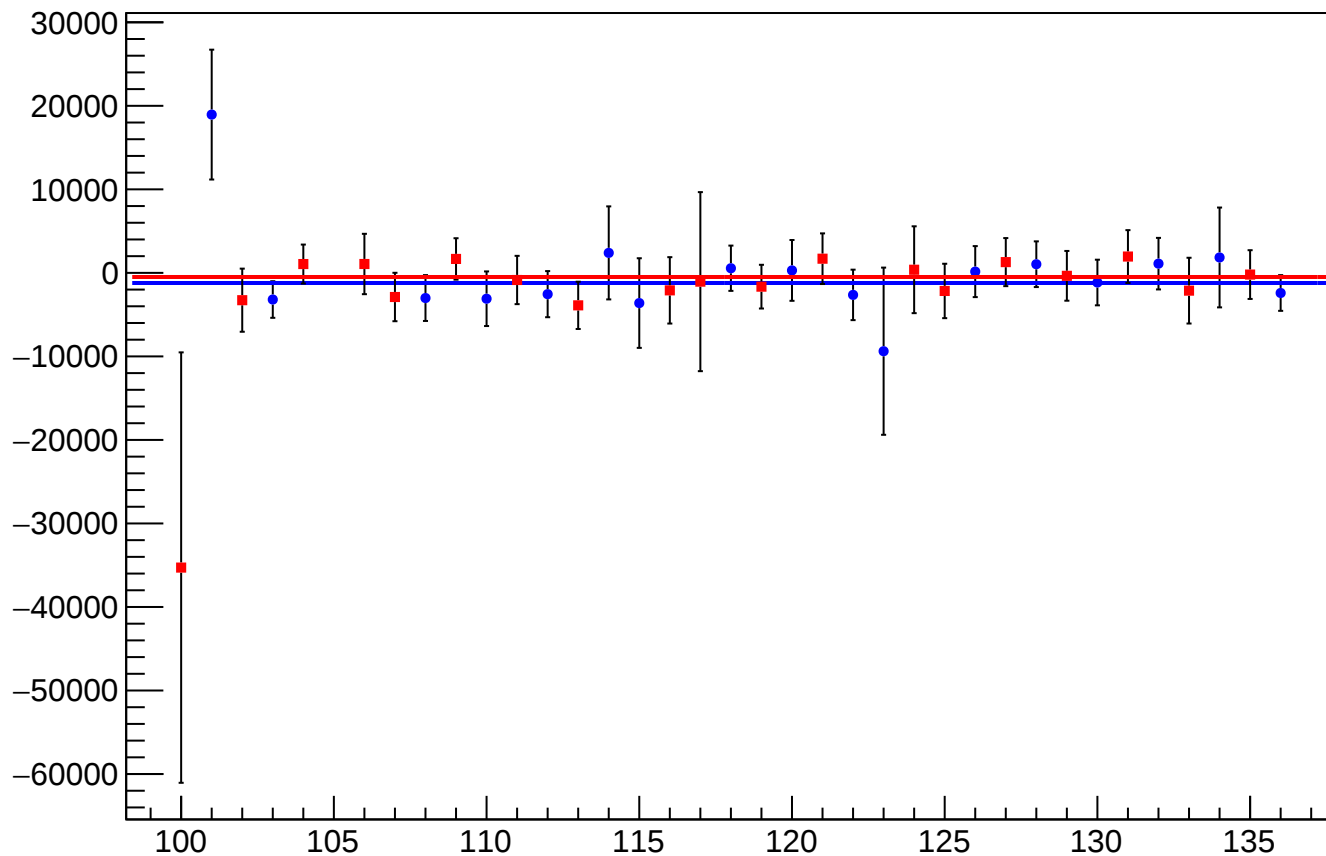
4673.046 $\pm$ 1.323  $\chi^2$ /NDF: 777321.1/16

Right Out: 4352.556 $\pm$ 1.225  $\chi^2$ /NDF: 836950.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

4352.556 $\pm$ 1.225  $\chi^2$ /NDF: 836950.8/18

# reg\_asym\_atr\_dd\_mean vs Slug



Right In: -1211.176+/-765.294  $\chi^2/\text{NDF}$ : 12.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

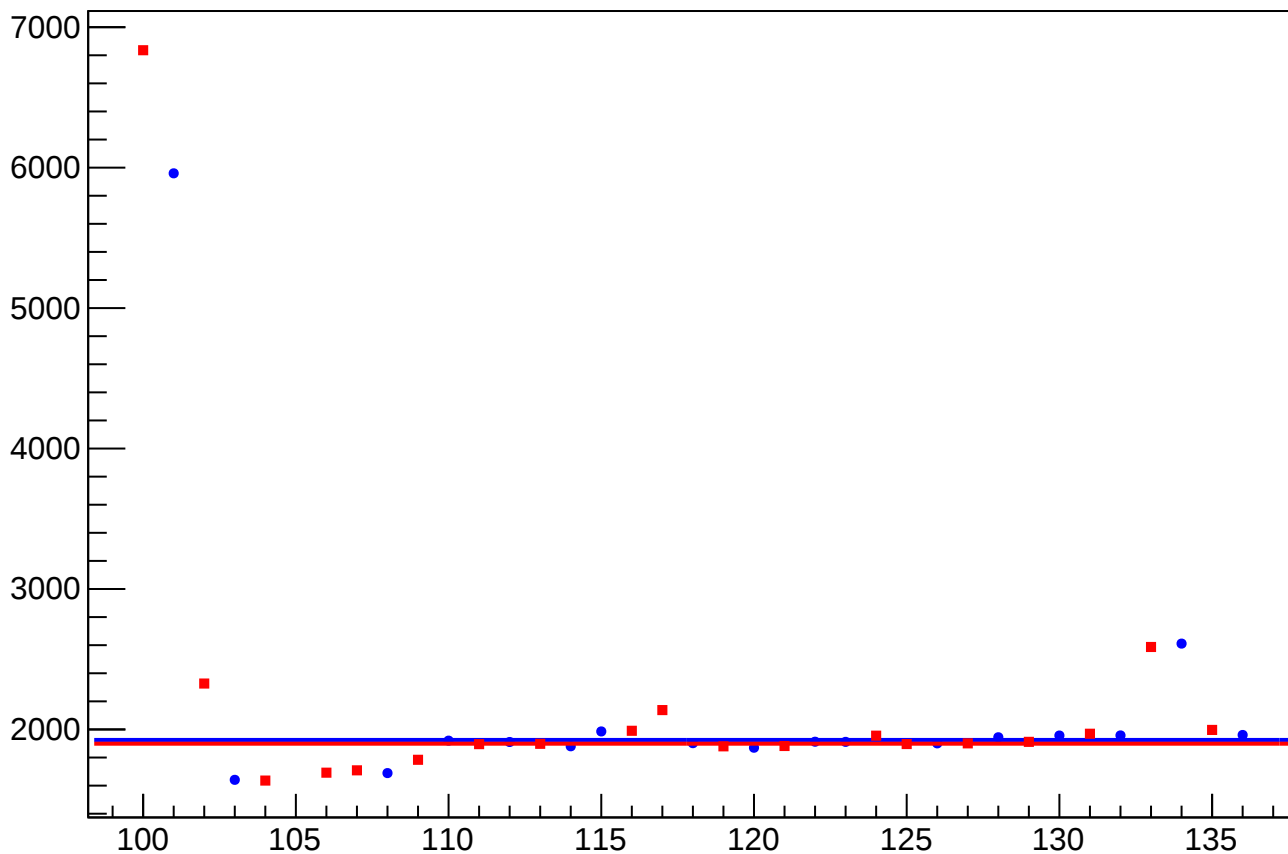
Right Out: -493.357+/-738.768  $\chi^2/\text{NDF}$ : 8.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1211.176+/-765.294  $\chi^2/\text{NDF}$ : 12.7/16

-493.357+/-738.768  $\chi^2/\text{NDF}$ : 8.2/18

# reg\_asym\_atr\_dd\_rms vs Slug



Right In: 1925.320+/-0.541  $\chi^2$ /NDF: 615863.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

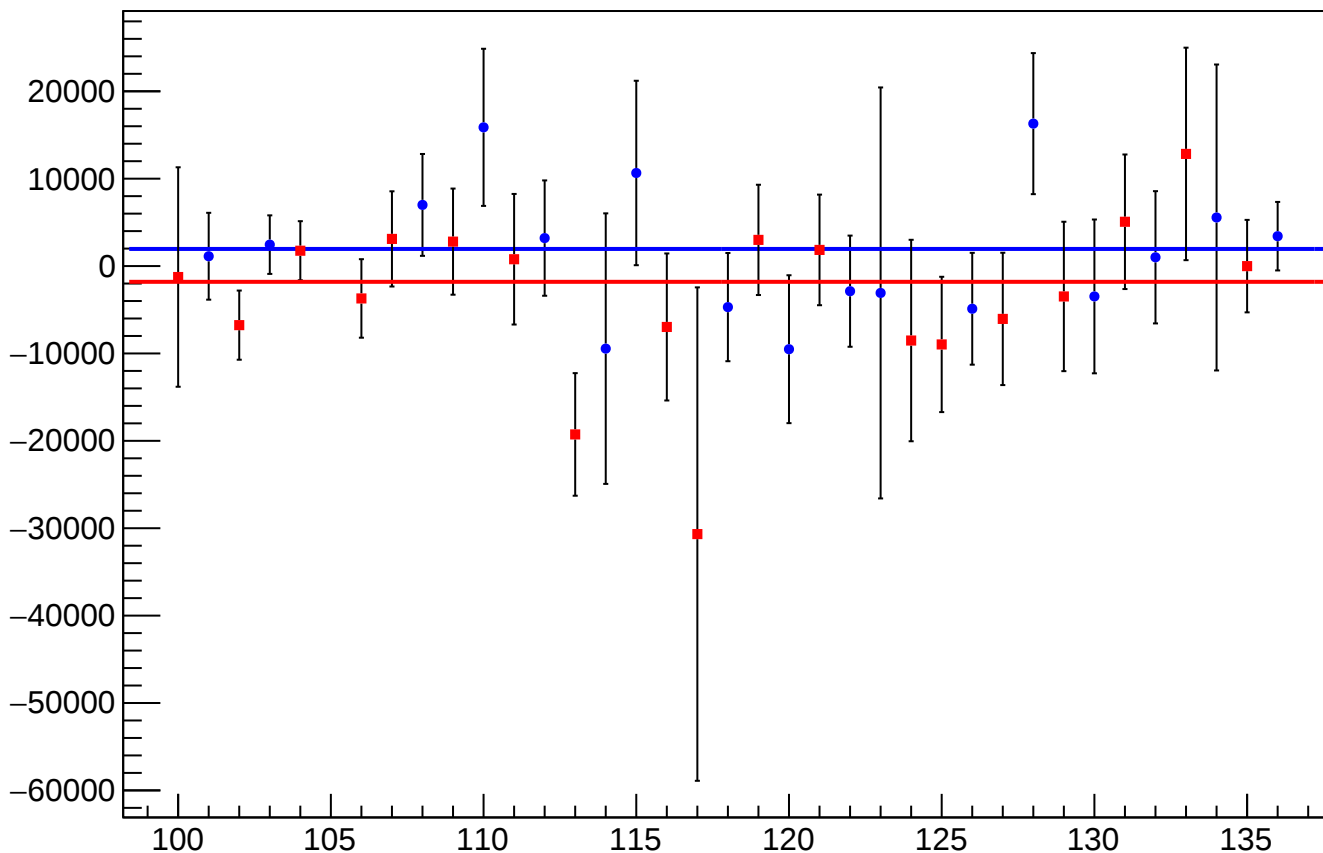
Right Out: 1898.504+/-0.521  $\chi^2$ /NDF: 211569.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1925.320+/-0.541  $\chi^2$ /NDF: 615863.6/16

1898.504+/-0.521  $\chi^2$ /NDF: 211569.7/18

# asym\_atr\_dd\_correction\_mean vs Slug



Right In: 1959.060 $\pm$ 1556.840  $\chi^2$ /NDF: 12.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

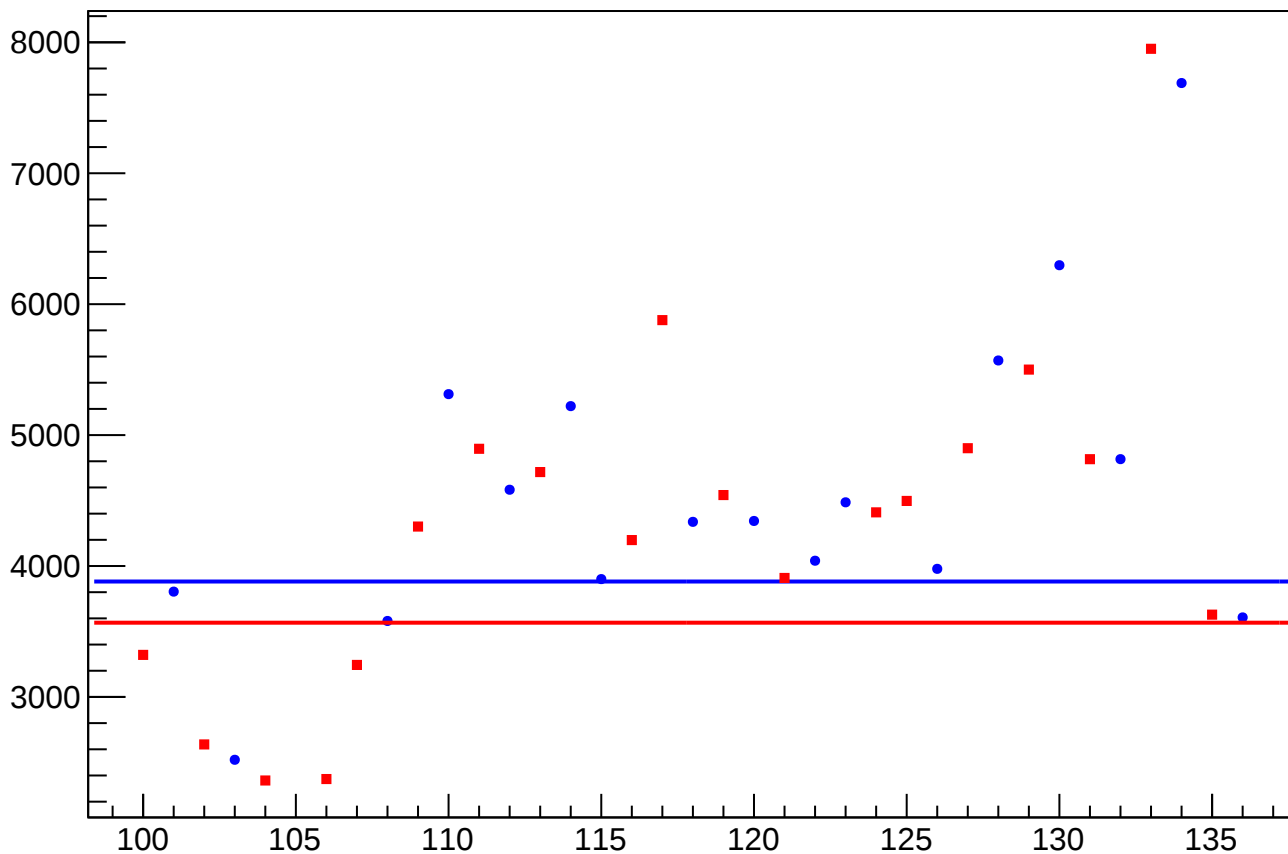
1959.060 $\pm$ 1556.840  $\chi^2$ /NDF: 12.9/16

Right Out: -1803.013 $\pm$ 1433.754  $\chi^2$ /NDF: 16.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-1803.013 $\pm$ 1433.754  $\chi^2$ /NDF: 16.8/18

# asym\_atr\_dd\_correction\_rms vs Slug



Right In: 3881.577+/-1.101  $\chi^2$ /NDF: 817466.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

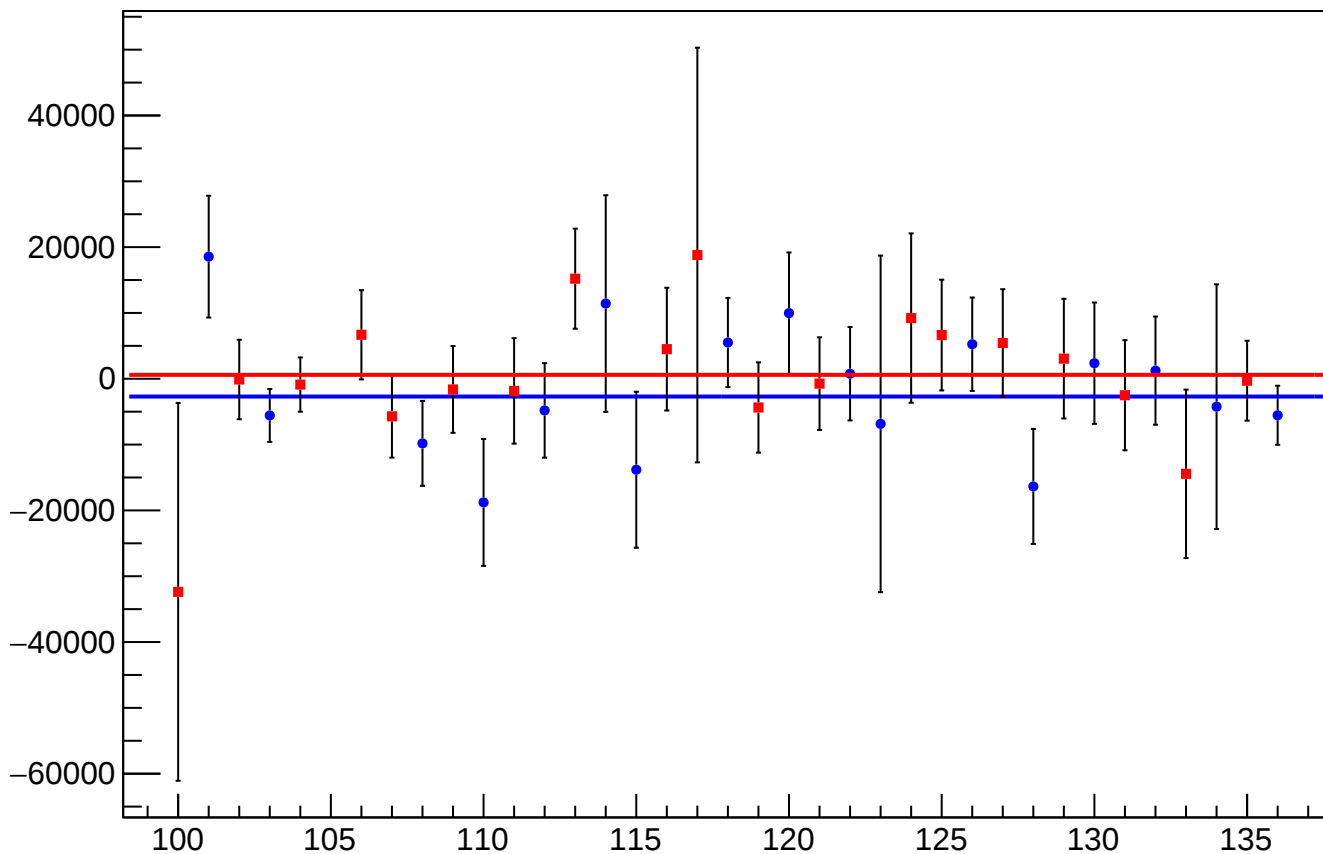
Right Out: 3567.056+/-1.014  $\chi^2$ /NDF: 1254927.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3881.577+/-1.101  $\chi^2$ /NDF: 817466.6/16

3567.056+/-1.014  $\chi^2$ /NDF: 1254927.1/18

# asym\_atr\_dd\_mean vs Slug



Right In: -2700.702+/-1809.055  $\chi^2$ /NDF: 19.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

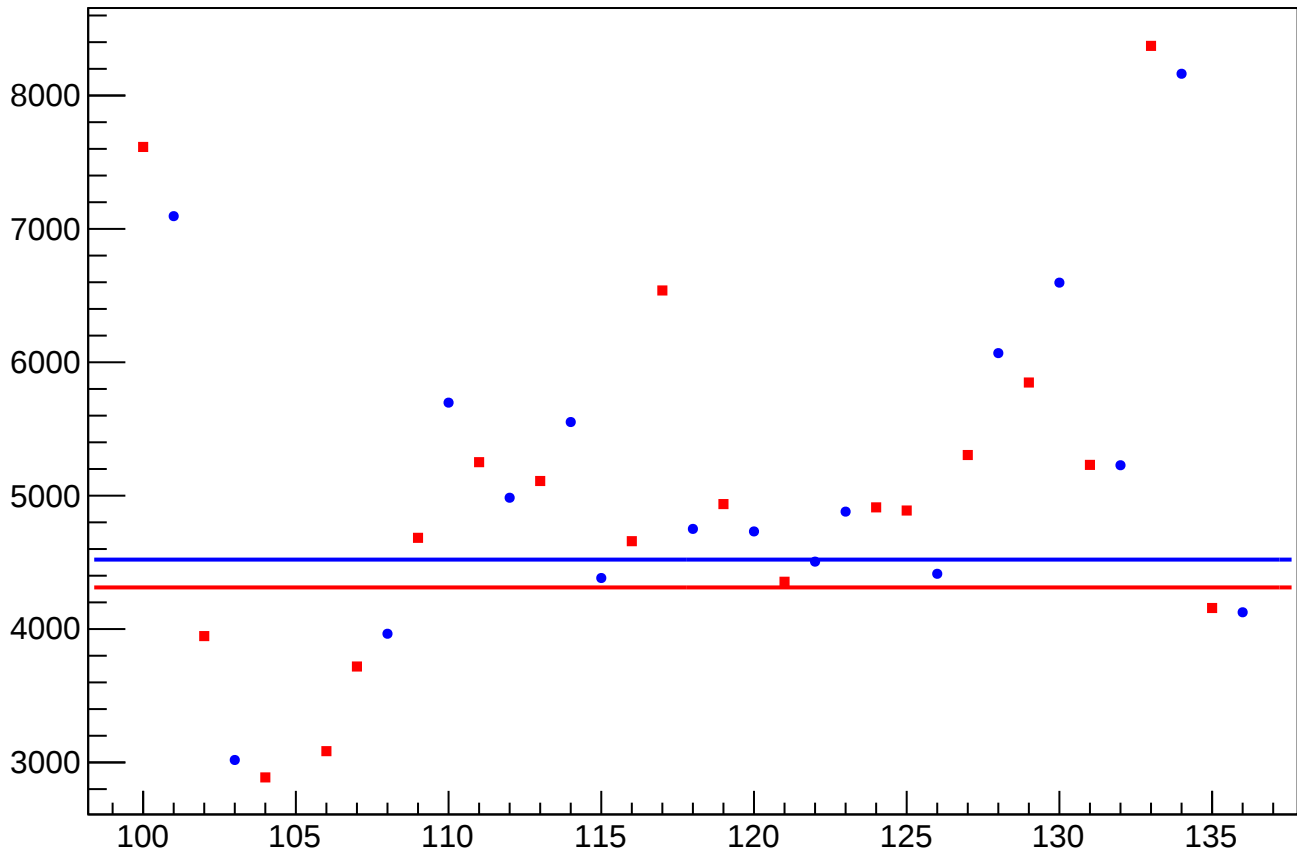
Right Out: 595.032+/-1716.591  $\chi^2$ /NDF: 11.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2700.702+/-1809.055  $\chi^2$ /NDF: 19.8/16

595.032+/-1716.591  $\chi^2$ /NDF: 11.2/18

# asym\_atr\_dd\_rms vs Slug



Right In: 4520.685 $\pm$ 1.279  $\chi^2$ /NDF: 770887.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

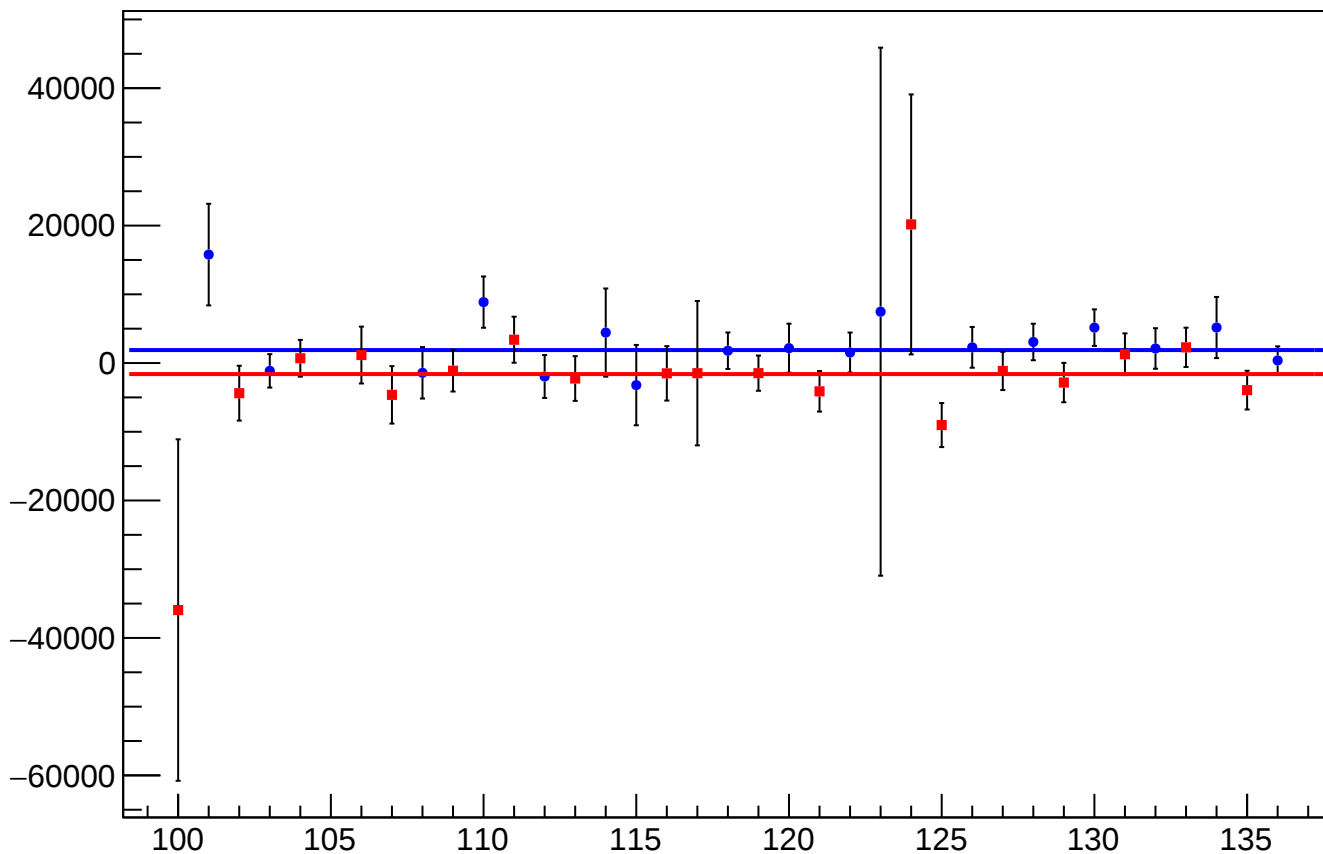
4520.685 $\pm$ 1.279  $\chi^2$ /NDF: 770887.4/16

Right Out: 4312.020 $\pm$ 1.207  $\chi^2$ /NDF: 780139.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

4312.020 $\pm$ 1.207  $\chi^2$ /NDF: 780139.6/18

# reg\_asym\_at1\_avg\_mean vs Slug



Right In: 1887.915+/-783.827  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

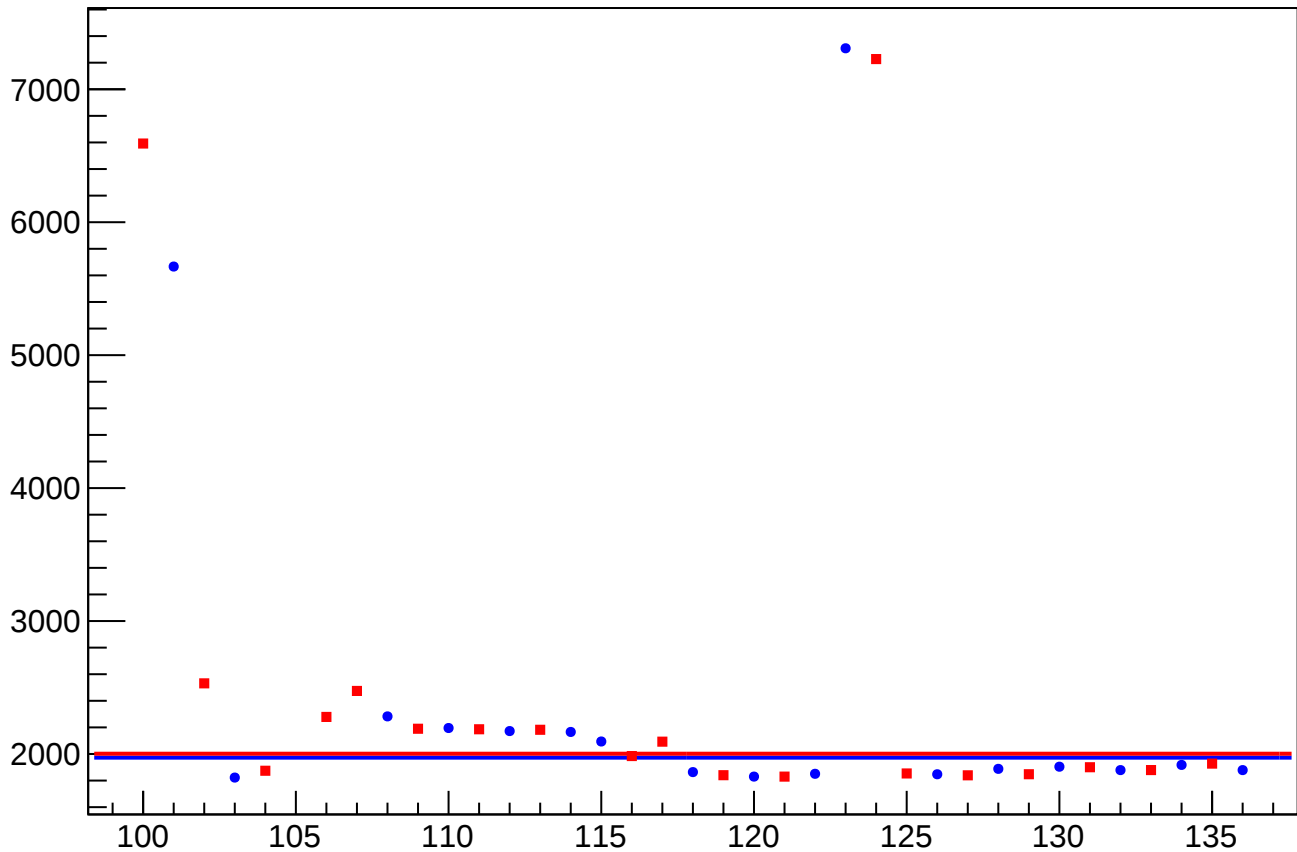
Right Out: -1605.935+/-776.035  $\chi^2/\text{NDF}$ : 17.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1887.915+/-783.827  $\chi^2/\text{NDF}$ : 14.7/16

-1605.935+/-776.035  $\chi^2/\text{NDF}$ : 17.5/18

# reg\_asym\_at1\_avg\_rms vs Slug



Right In: 1972.484+/-0.554     $\chi^2/\text{NDF}$ : 600869.6/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

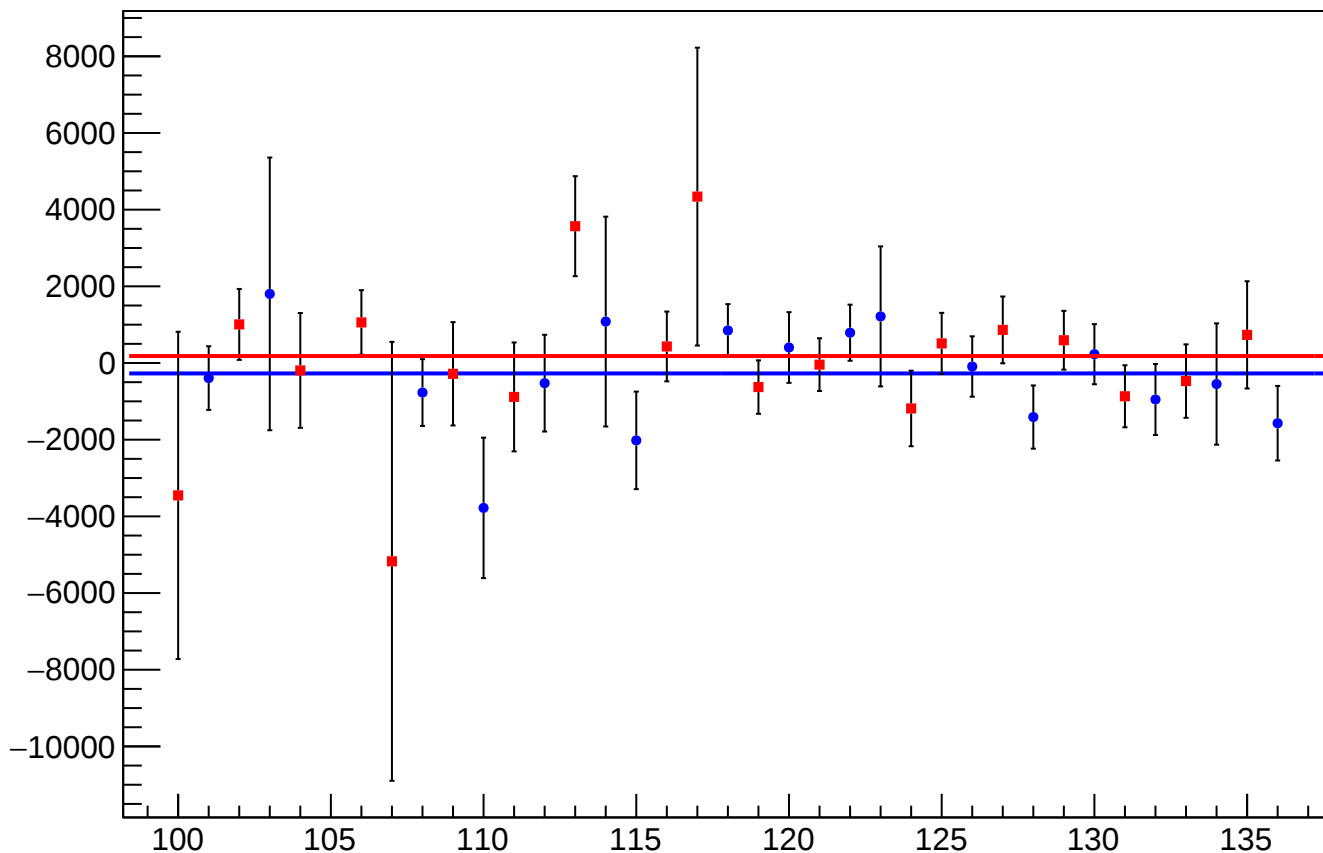
1972.484+/-0.554     $\chi^2/\text{NDF}$ : 600869.6/16

Right Out: 2001.981+/-0.549     $\chi^2/\text{NDF}$ : 354175.2/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

2001.981+/-0.549     $\chi^2/\text{NDF}$ : 354175.2/18

# asym\_at1\_avg\_correction\_mean vs Slug



Right In: -271.773+/-240.214  $\chi^2$ /NDF: 17.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

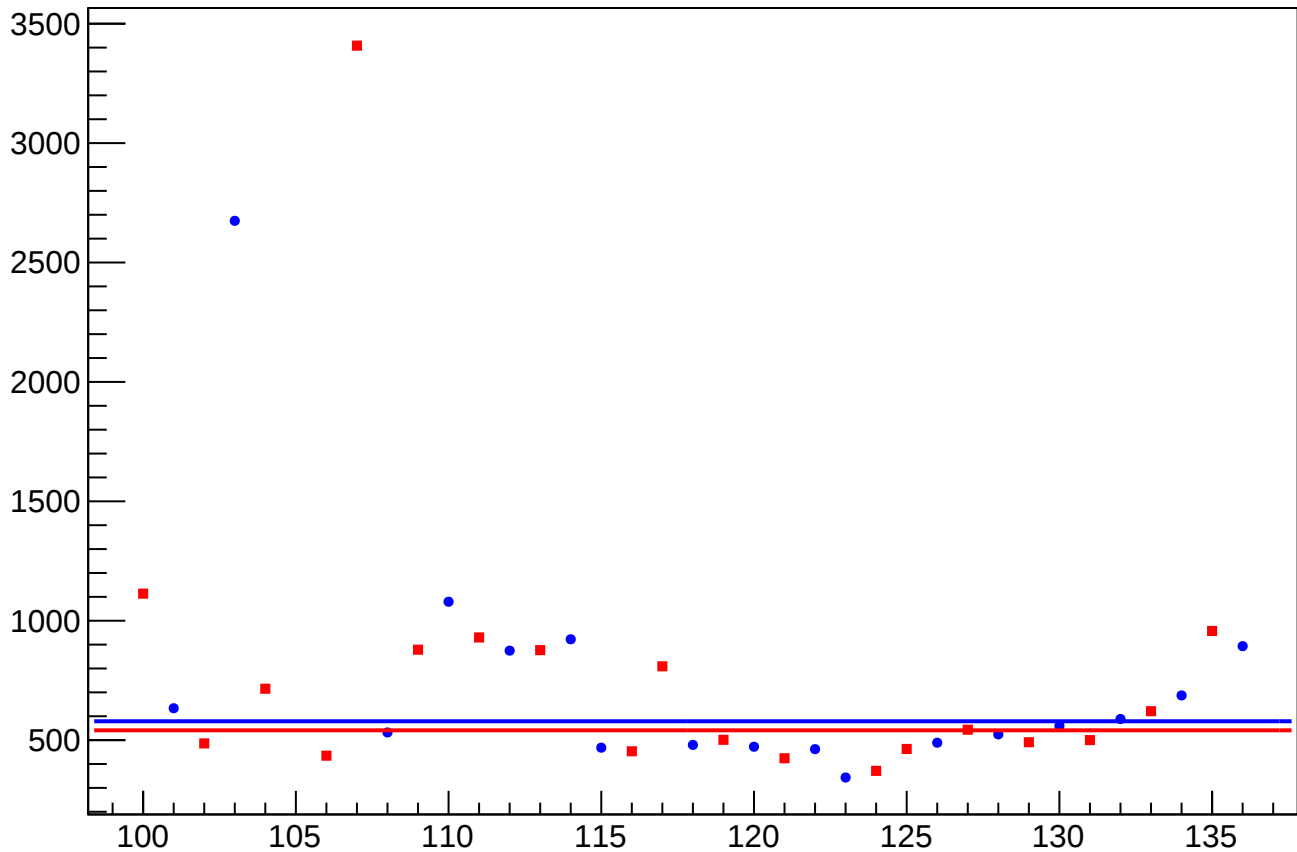
Right Out: 181.741+/-229.744  $\chi^2$ /NDF: 18.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-271.773+/-240.214  $\chi^2$ /NDF: 17.2/16

181.741+/-229.744  $\chi^2$ /NDF: 18.9/18

# asym\_at1\_avg\_correction\_rms vs Slug



Right In: 579.010 $\pm$ 0.170  $\chi^2$ /NDF: 1422148.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

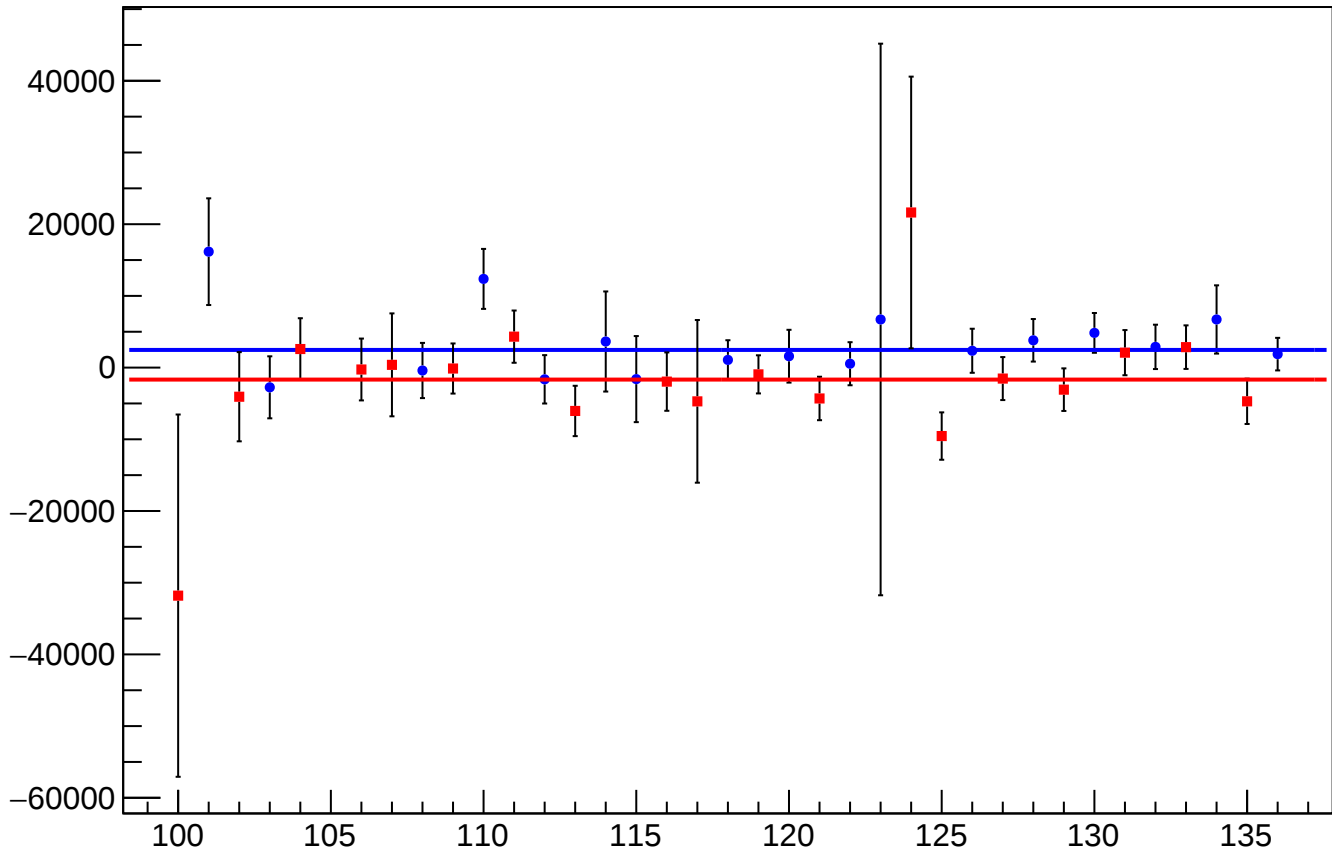
Right Out: 541.083 $\pm$ 0.162  $\chi^2$ /NDF: 1386889.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

579.010 $\pm$ 0.170  $\chi^2$ /NDF: 1422148.6/16

541.083 $\pm$ 0.162  $\chi^2$ /NDF: 1386889.5/18

# asym\_at1\_avg\_mean vs Slug



Right In: 2464.076+/-863.197  $\chi^2/\text{NDF}$ : 15.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

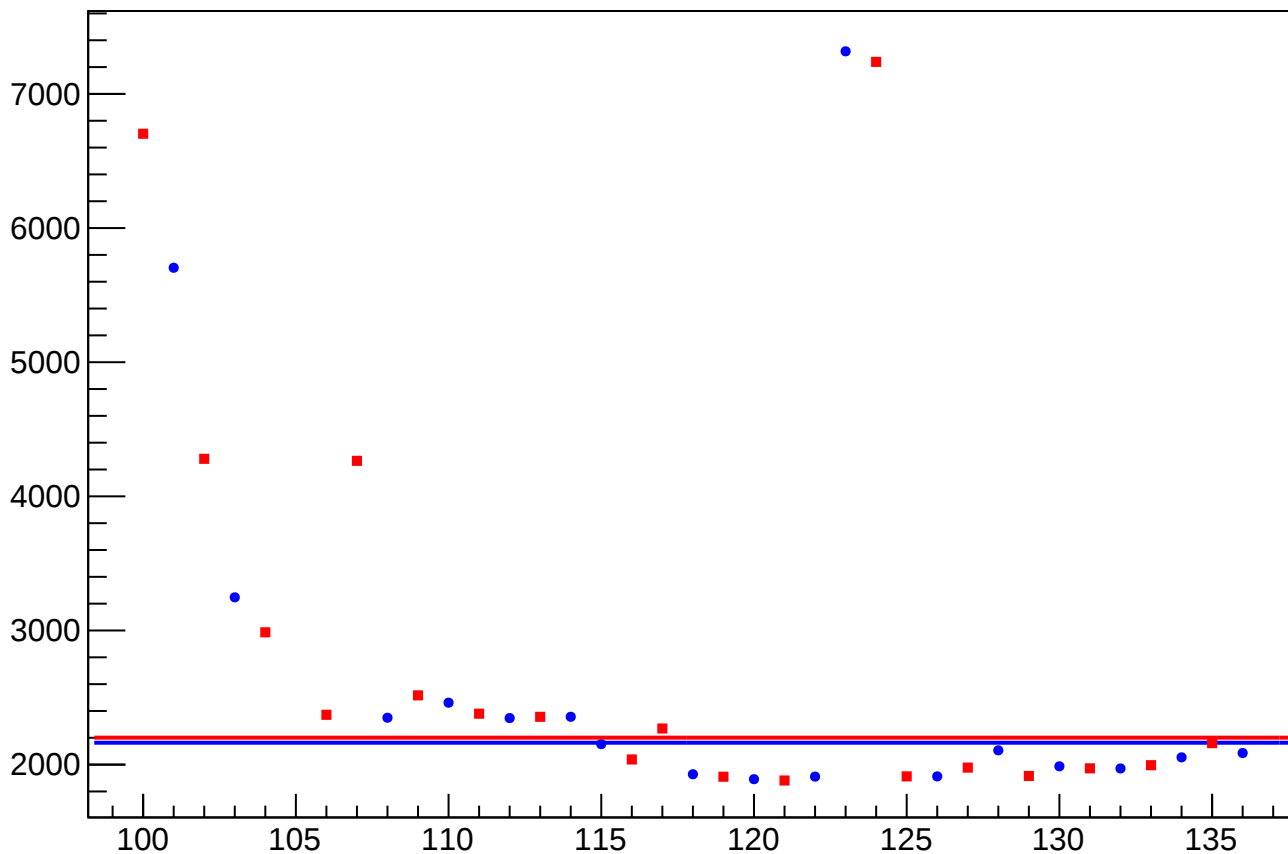
2464.076+/-863.197  $\chi^2/\text{NDF}$ : 15.5/16

Right Out: -1671.705+/-863.879  $\chi^2/\text{NDF}$ : 20.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1671.705+/-863.879  $\chi^2/\text{NDF}$ : 20.1/18

# asym\_at1\_avg\_rms vs Slug



Right In: 2163.303 $\pm$ 0.610  $\chi^2$ /NDF: 709584.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

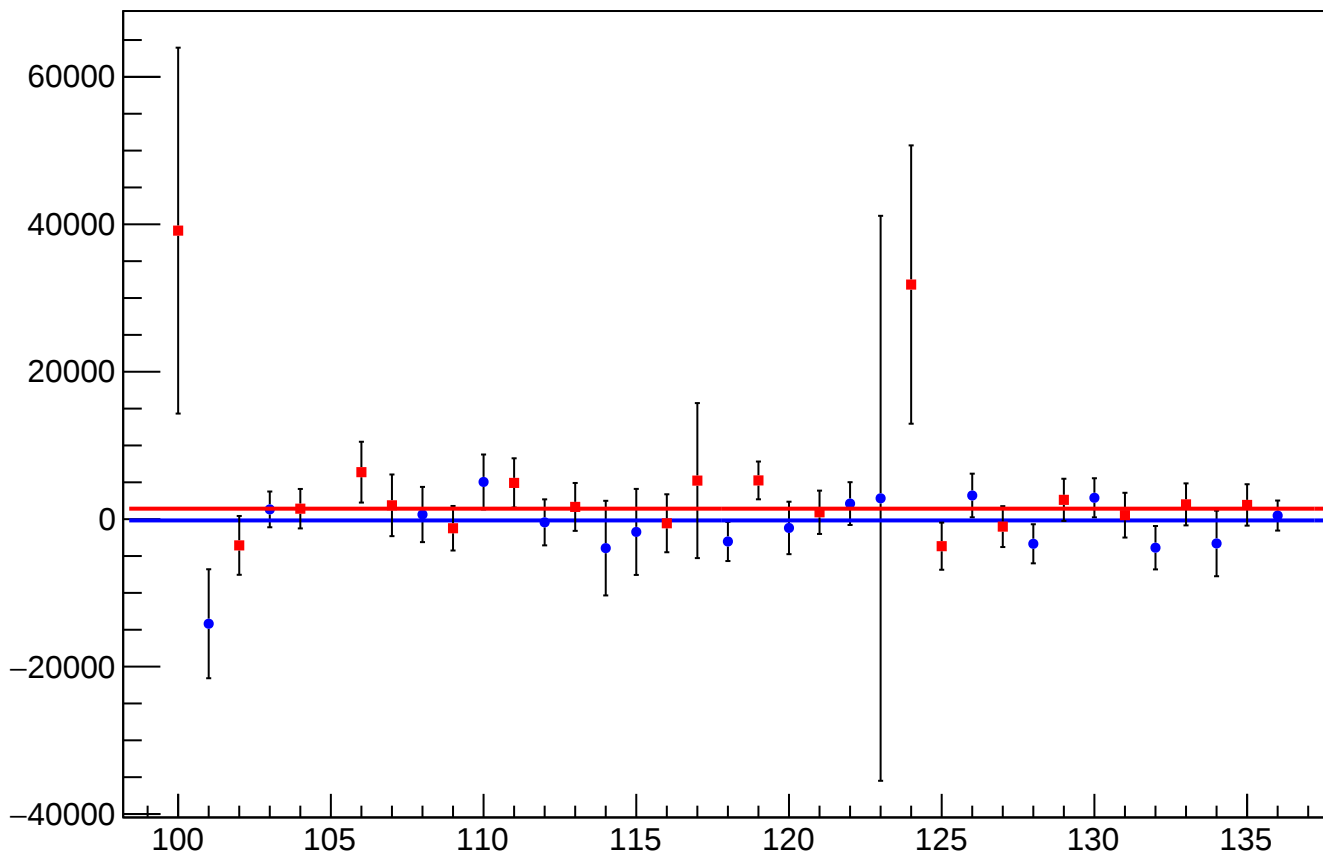
Right Out: 2201.178 $\pm$ 0.611  $\chi^2$ /NDF: 803088.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2163.303 $\pm$ 0.610  $\chi^2$ /NDF: 709584.4/16

2201.178 $\pm$ 0.611  $\chi^2$ /NDF: 803088.8/18

# reg\_asym\_at1\_dd\_mean vs Slug



Right In: -170.351+/-782.384  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

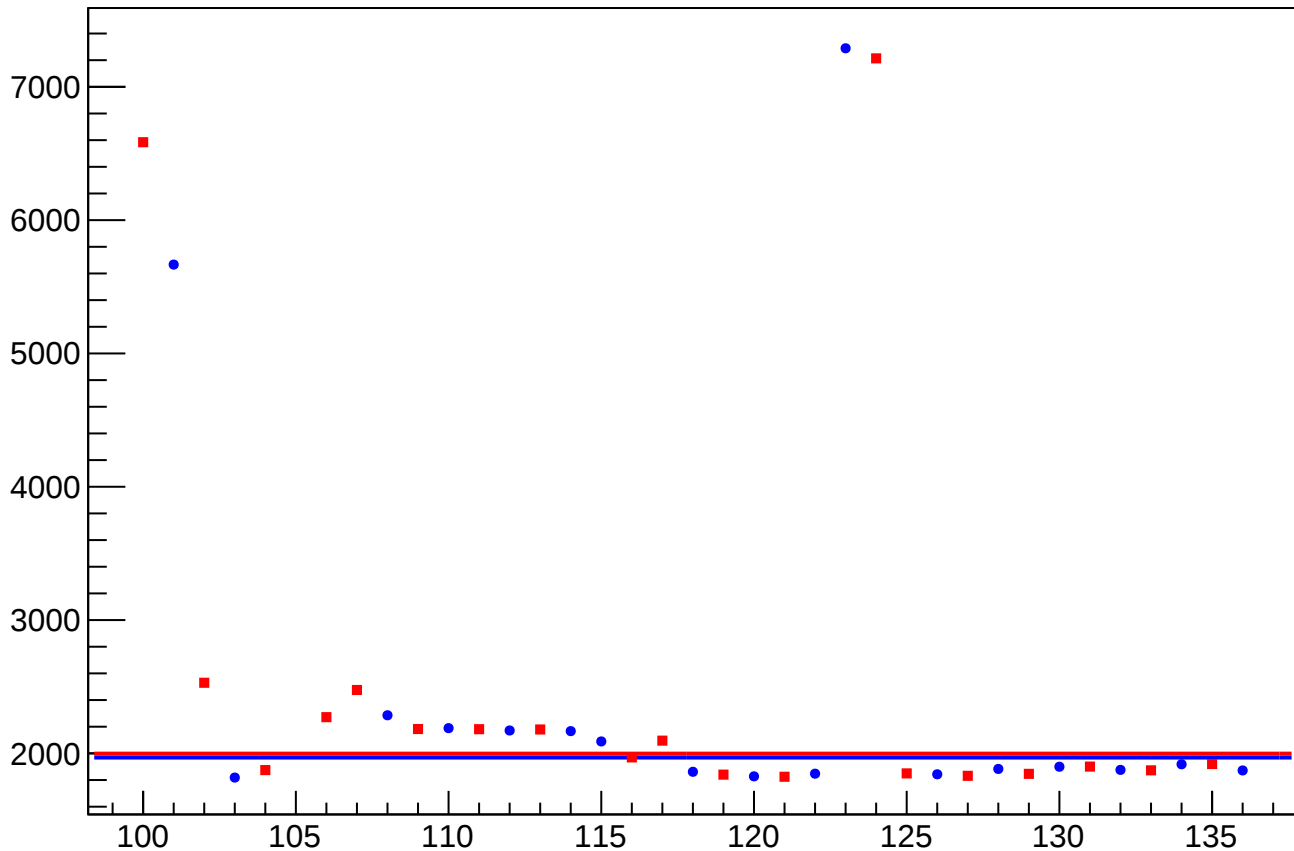
Right Out: 1424.420+/-774.500  $\chi^2/\text{NDF}$ : 16.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-170.351+/-782.384  $\chi^2/\text{NDF}$ : 14.5/16

1424.420+/-774.500  $\chi^2/\text{NDF}$ : 16.1/18

# reg\_asym\_at1\_dd\_rms vs Slug



Right In: 1968.632 $\pm$ 0.553  $\chi^2$ /NDF: 602972.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

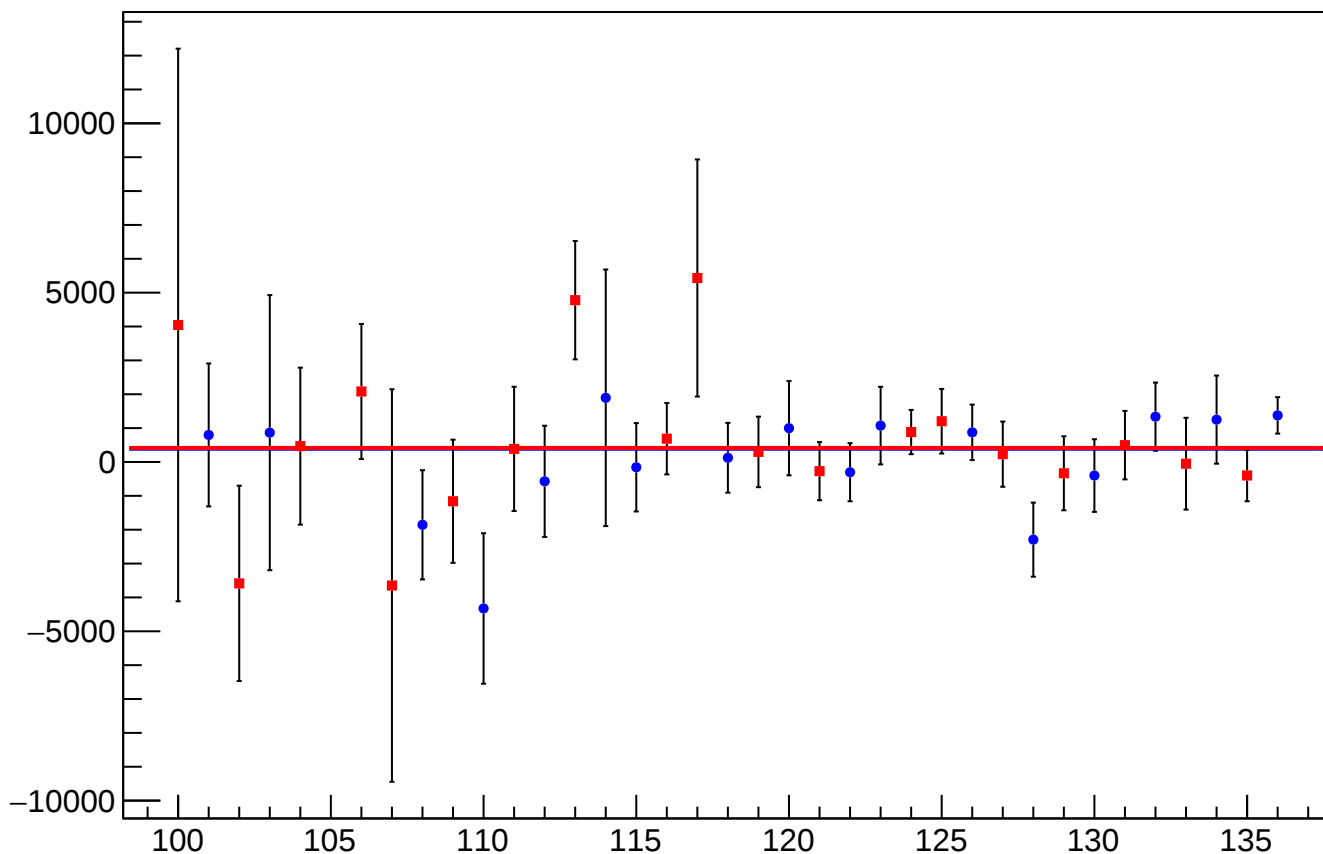
1968.632 $\pm$ 0.553  $\chi^2$ /NDF: 602972.8/16

Right Out: 1997.947 $\pm$ 0.548  $\chi^2$ /NDF: 354669.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1997.947 $\pm$ 0.548  $\chi^2$ /NDF: 354669.8/18

# asym\_at1\_dd\_correction\_mean vs Slug



Right In: 390.923+/-270.128  $\chi^2/\text{NDF}$ : 20.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

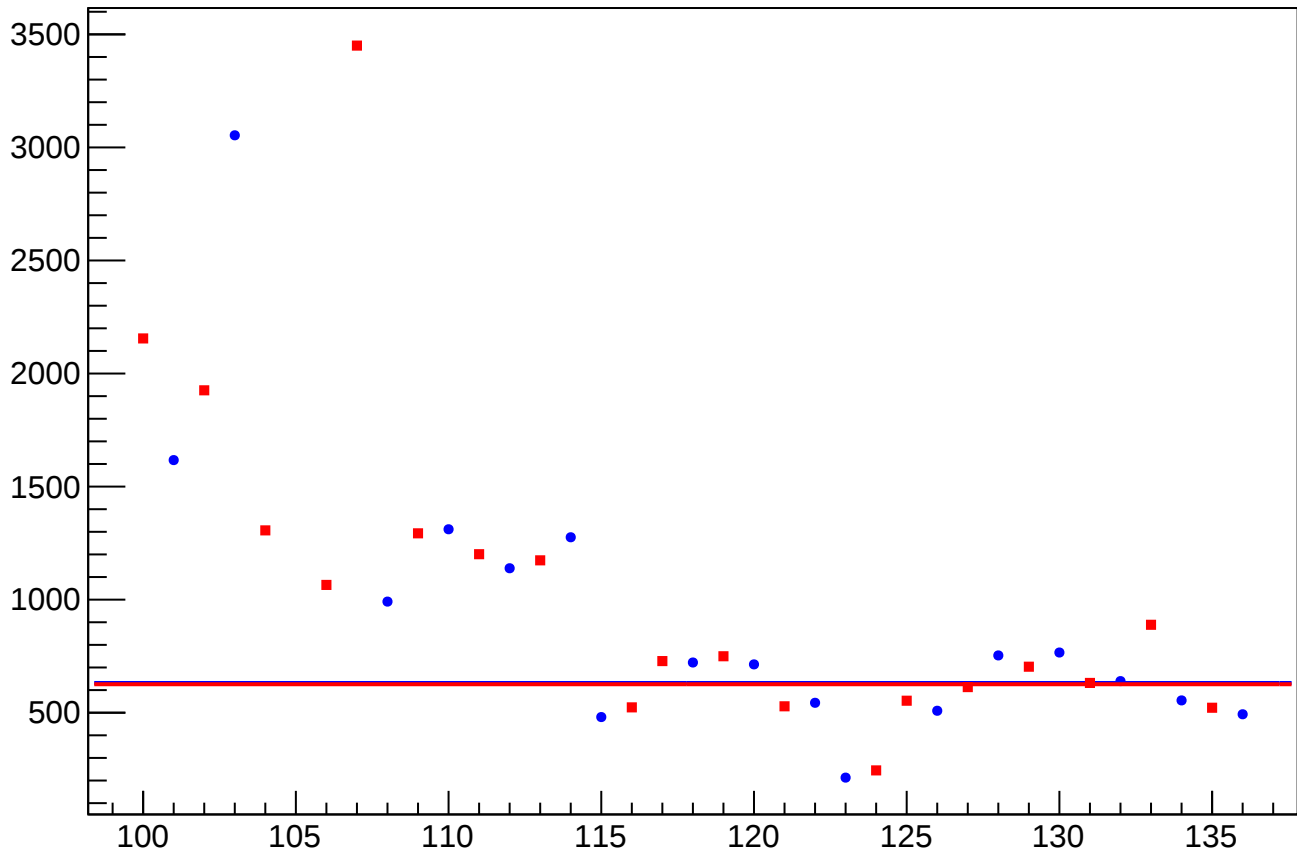
Right Out: 415.183+/-273.238  $\chi^2/\text{NDF}$ : 16.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

390.923+/-270.128  $\chi^2/\text{NDF}$ : 20.0/16

415.183+/-273.238  $\chi^2/\text{NDF}$ : 16.0/18

# asym\_at1\_dd\_correction\_rms vs Slug



Right In: 631.430+/-0.191  $\chi^2/\text{NDF}$ : 2260692.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

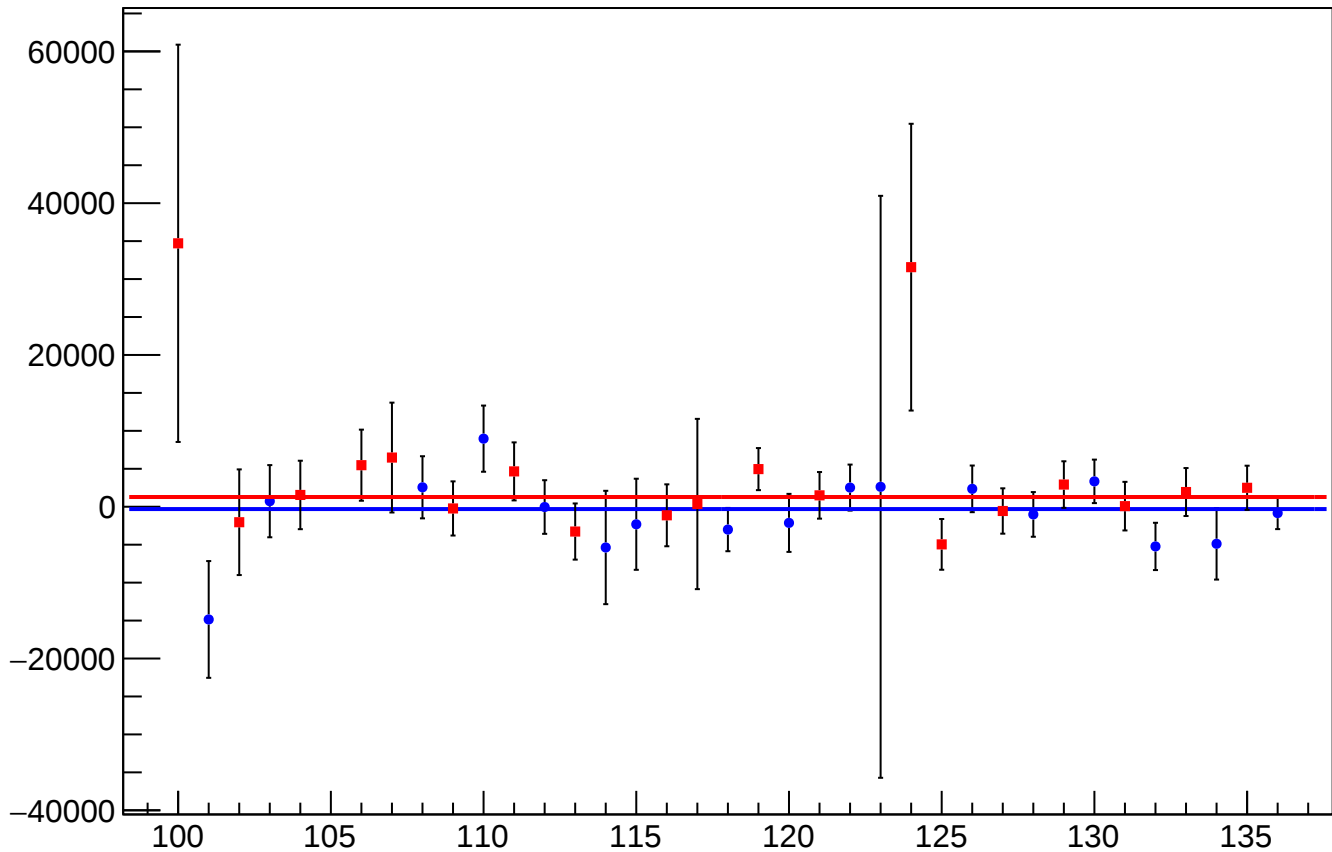
Right Out: 625.862+/-0.193  $\chi^2/\text{NDF}$ : 2772672.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

631.430+/-0.191  $\chi^2/\text{NDF}$ : 2260692.7/16

625.862+/-0.193  $\chi^2/\text{NDF}$ : 2772672.8/18

# asym\_at1\_dd\_mean vs Slug



Right In: -305.713+/-871.922  $\chi^2/\text{NDF}$ : 17.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

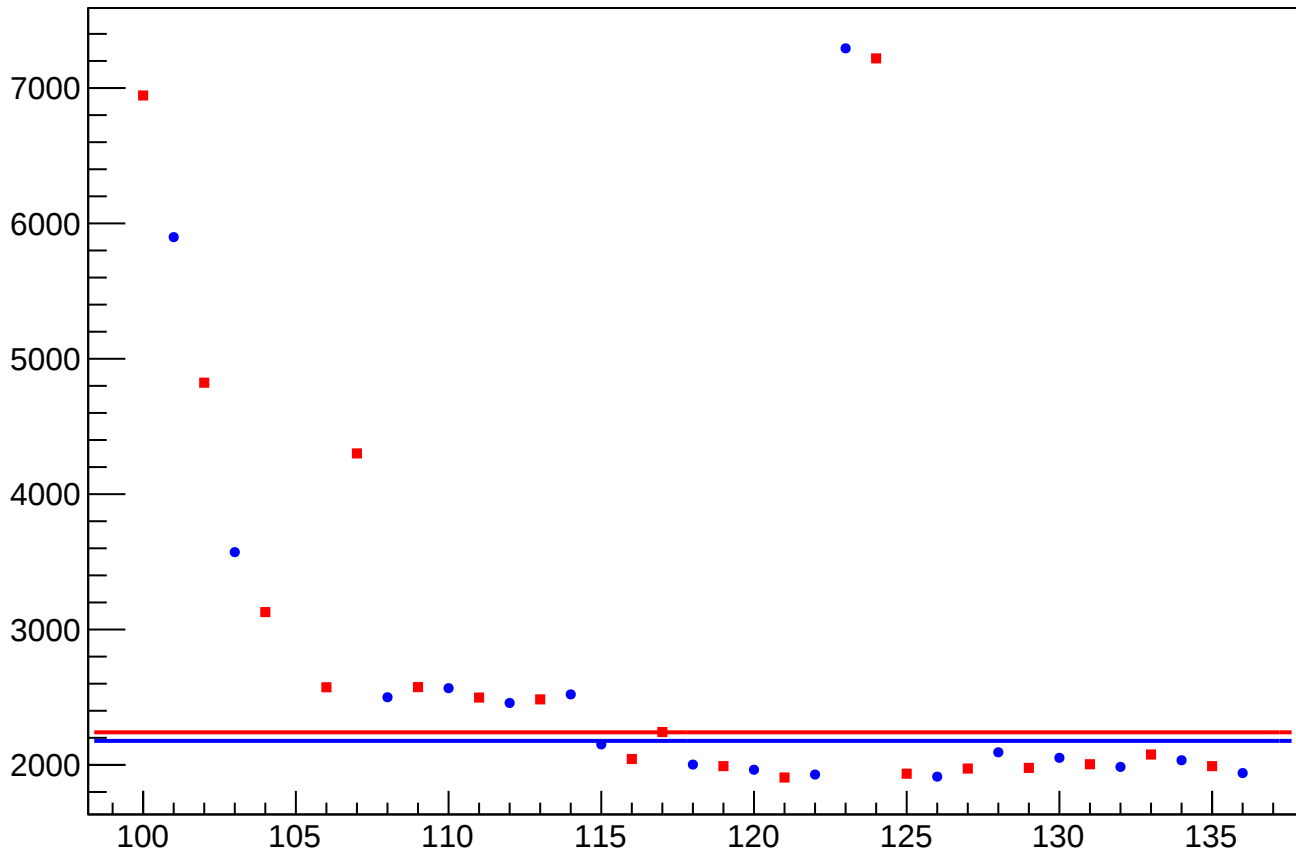
Right Out: 1282.195+/-881.716  $\chi^2/\text{NDF}$ : 14.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-305.713+/-871.922  $\chi^2/\text{NDF}$ : 17.2/16

1282.195+/-881.716  $\chi^2/\text{NDF}$ : 14.9/18

# asym\_at1\_dd\_rms vs Slug



Right In: 2177.446+/-0.617  $\chi^2/\text{NDF}$ : 802836.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

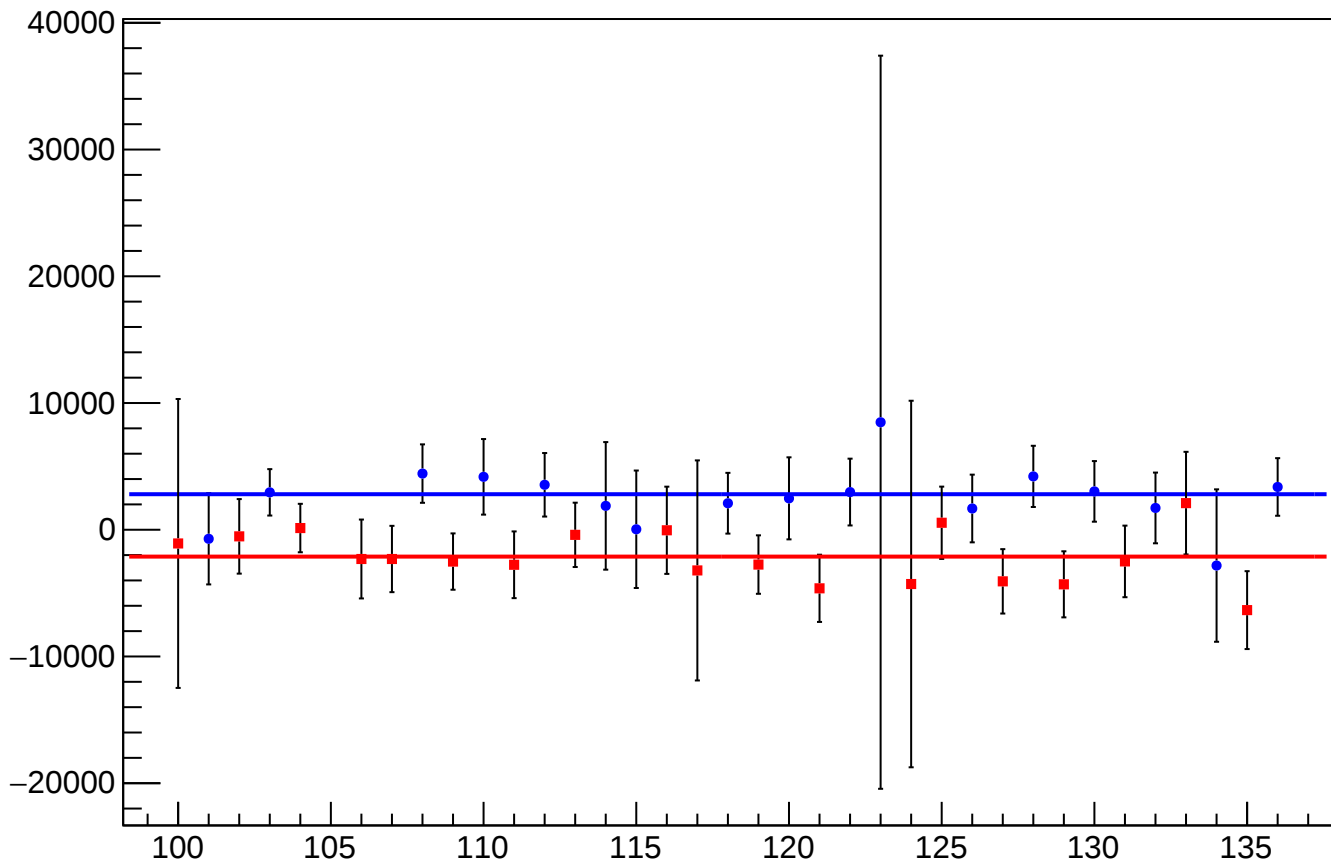
Right Out: 2240.741+/-0.623  $\chi^2/\text{NDF}$ : 886598.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2177.446+/-0.617  $\chi^2/\text{NDF}$ : 802836.7/16

2240.741+/-0.623  $\chi^2/\text{NDF}$ : 886598.9/18

# reg\_asym\_at2\_avg\_mean vs Slug



Right In: 2803.917+/-678.548  $\chi^2/\text{NDF}$ : 3.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

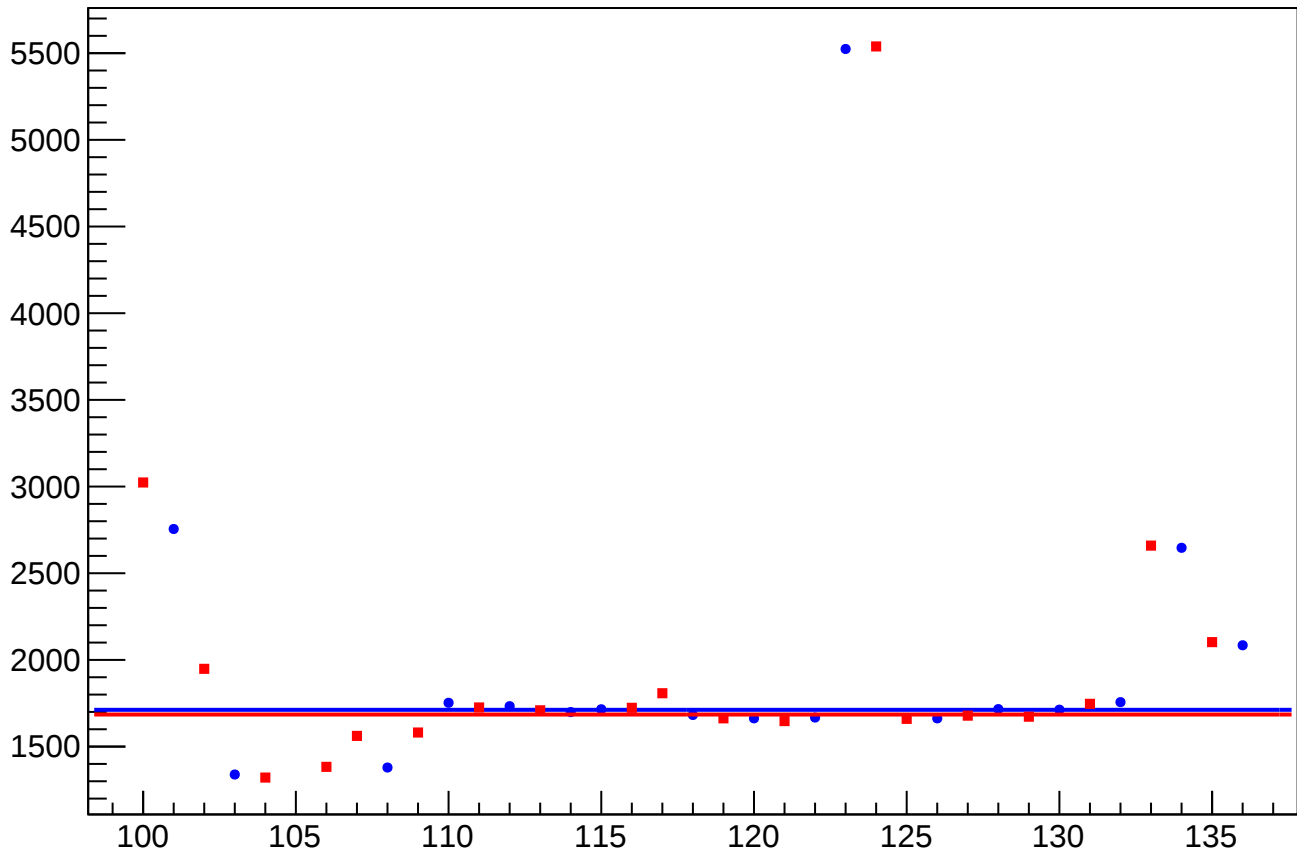
Right Out: -2119.087+/-659.610  $\chi^2/\text{NDF}$ : 8.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2803.917+/-678.548  $\chi^2/\text{NDF}$ : 3.9/16

-2119.087+/-659.610  $\chi^2/\text{NDF}$ : 8.8/18

# reg\_asym\_at2\_avg\_rms vs Slug



Right In: 1712.154 $\pm$ 0.480  $\chi^2/\text{NDF}$ : 432478.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

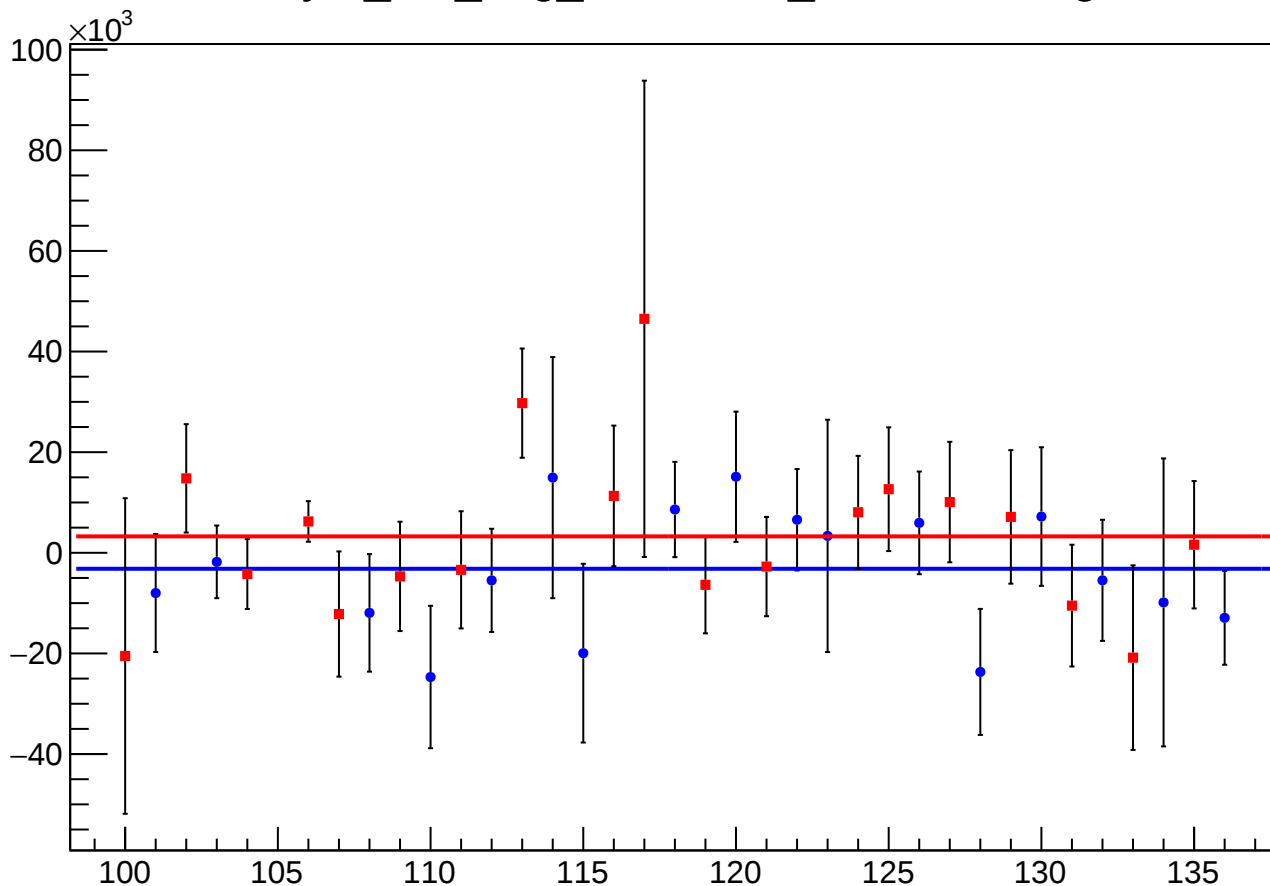
1712.154 $\pm$ 0.480  $\chi^2/\text{NDF}$ : 432478.4/16

Right Out: 1684.982 $\pm$ 0.466  $\chi^2/\text{NDF}$ : 441661.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

1684.982 $\pm$ 0.466  $\chi^2/\text{NDF}$ : 441661.4/18

# asym\_at2\_avg\_correction\_mean vs Slug



Right In: -3173.245 $\pm$ 2851.982  $\chi^2$ /NDF: 14.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

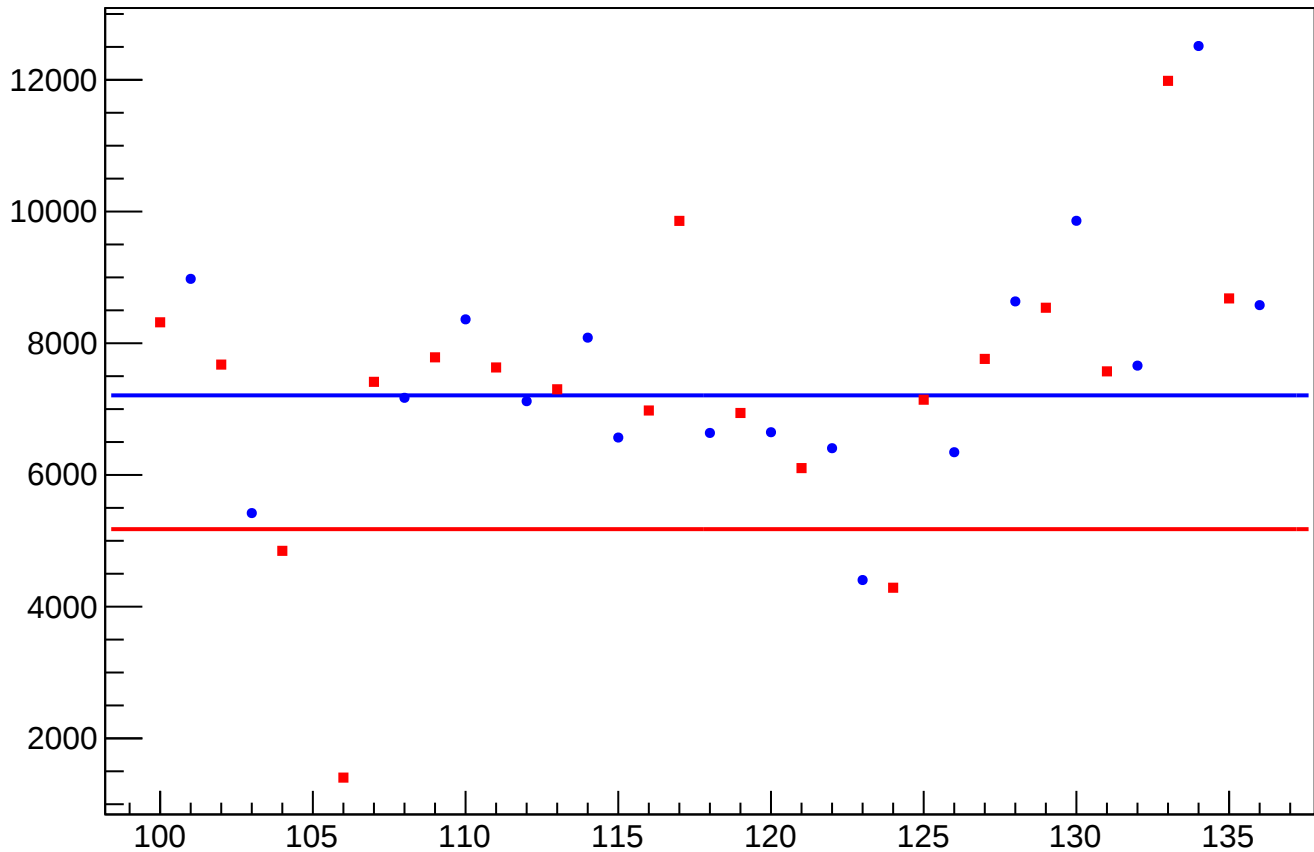
-3173.245 $\pm$ 2851.982  $\chi^2$ /NDF: 14.4/16

Right Out: 3265.988 $\pm$ 2279.035  $\chi^2$ /NDF: 18.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3265.988 $\pm$ 2279.035  $\chi^2$ /NDF: 18.5/18

# asym\_at2\_avg\_correction\_rms vs Slug



Right In: 7208.567 $\pm$ 2.017  $\chi^2$ /NDF: 469302.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

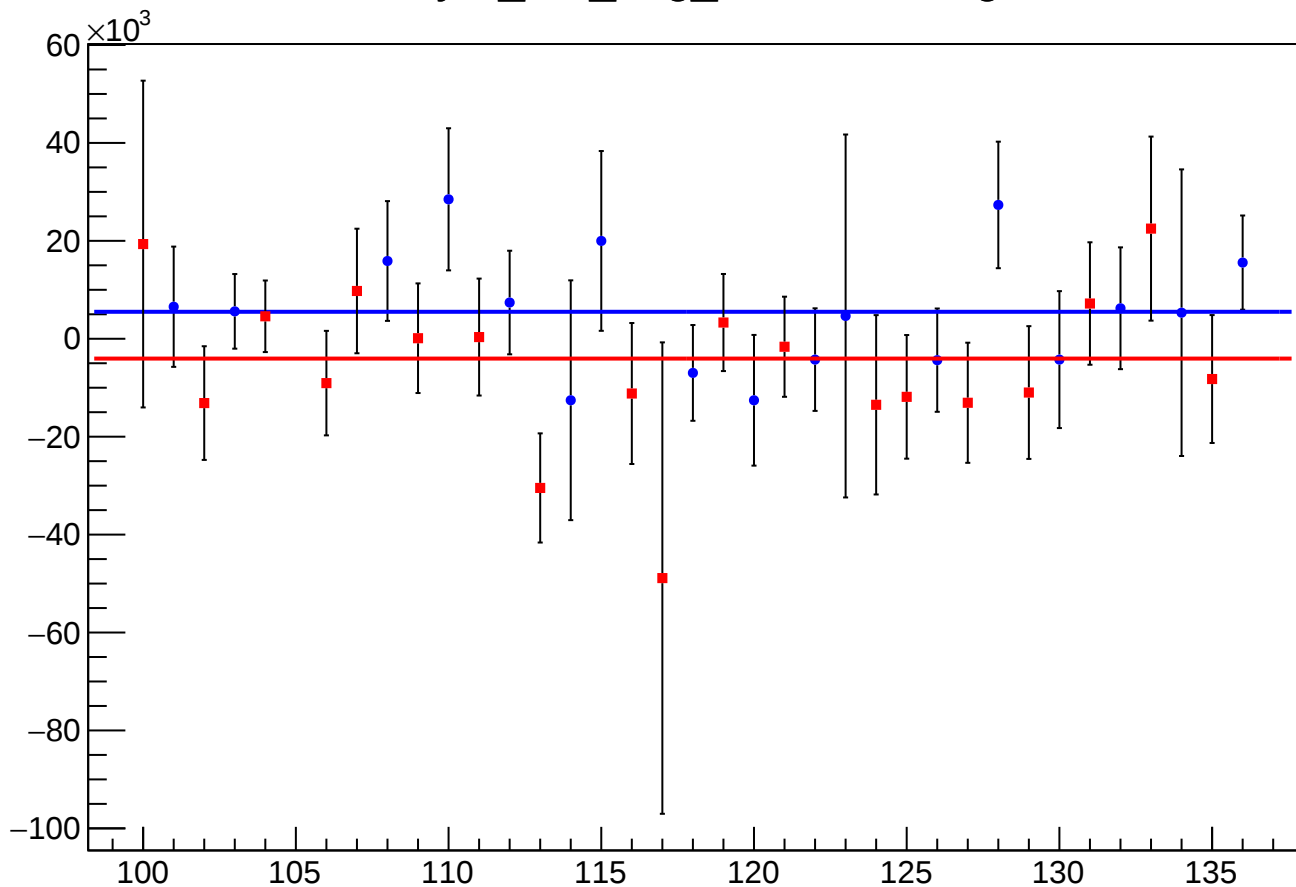
7208.567 $\pm$ 2.017  $\chi^2$ /NDF: 469302.0/16

Right Out: 5177.057 $\pm$ 1.612  $\chi^2$ /NDF: 3157681.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

5177.057 $\pm$ 1.612  $\chi^2$ /NDF: 3157681.0/18

# asym\_at2\_avg\_mean vs Slug



Right In: 5509.395+/-2971.033  $\chi^2$ /NDF: 14.1/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

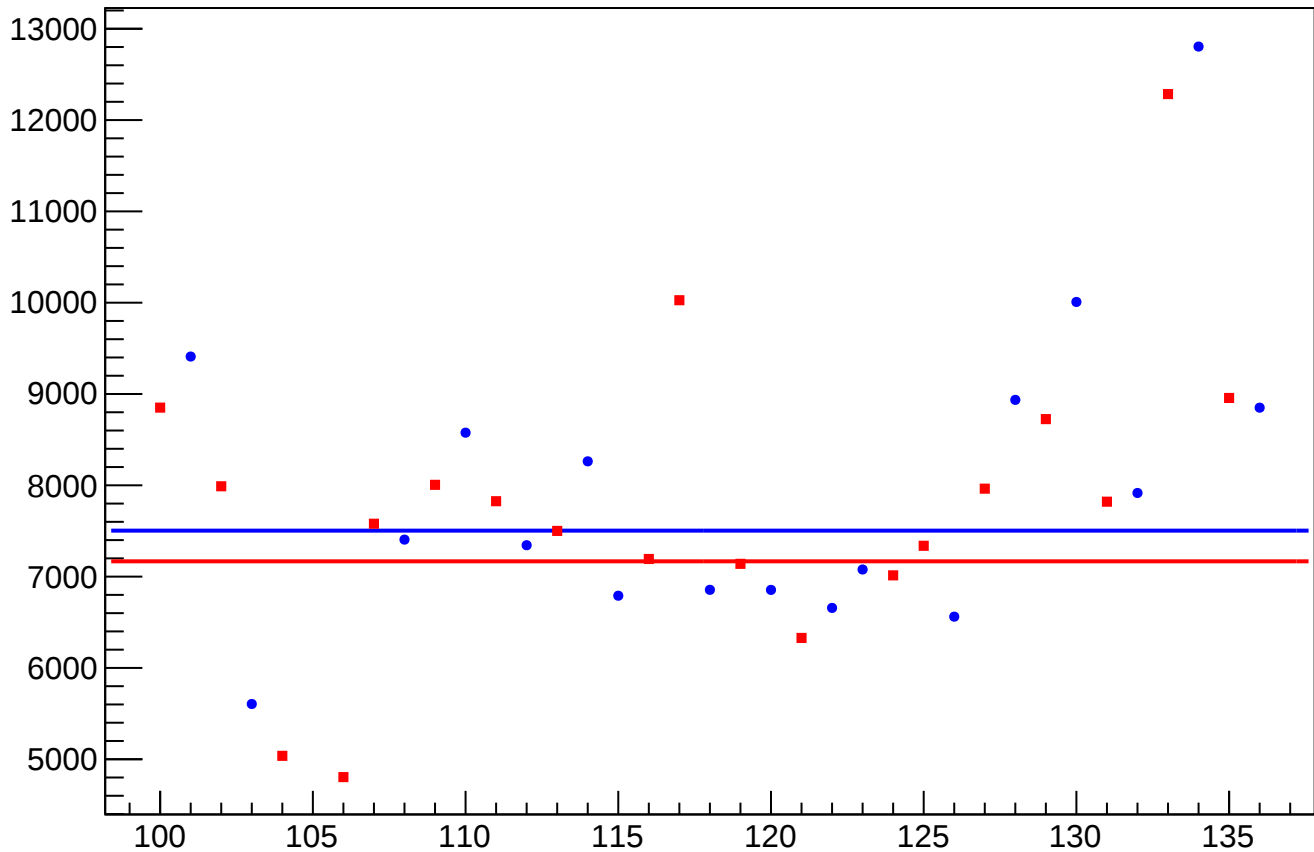
Right Out: -4047.341+/-2812.199  $\chi^2$ /NDF: 15.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

5509.395+/-2971.033  $\chi^2$ /NDF: 14.1/16

-4047.341+/-2812.199  $\chi^2$ /NDF: 15.9/18

# asym\_at2\_avg\_rms vs Slug



Right In: 7503.667 $\pm$ 2.101  $\chi^2$ /NDF: 427313.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

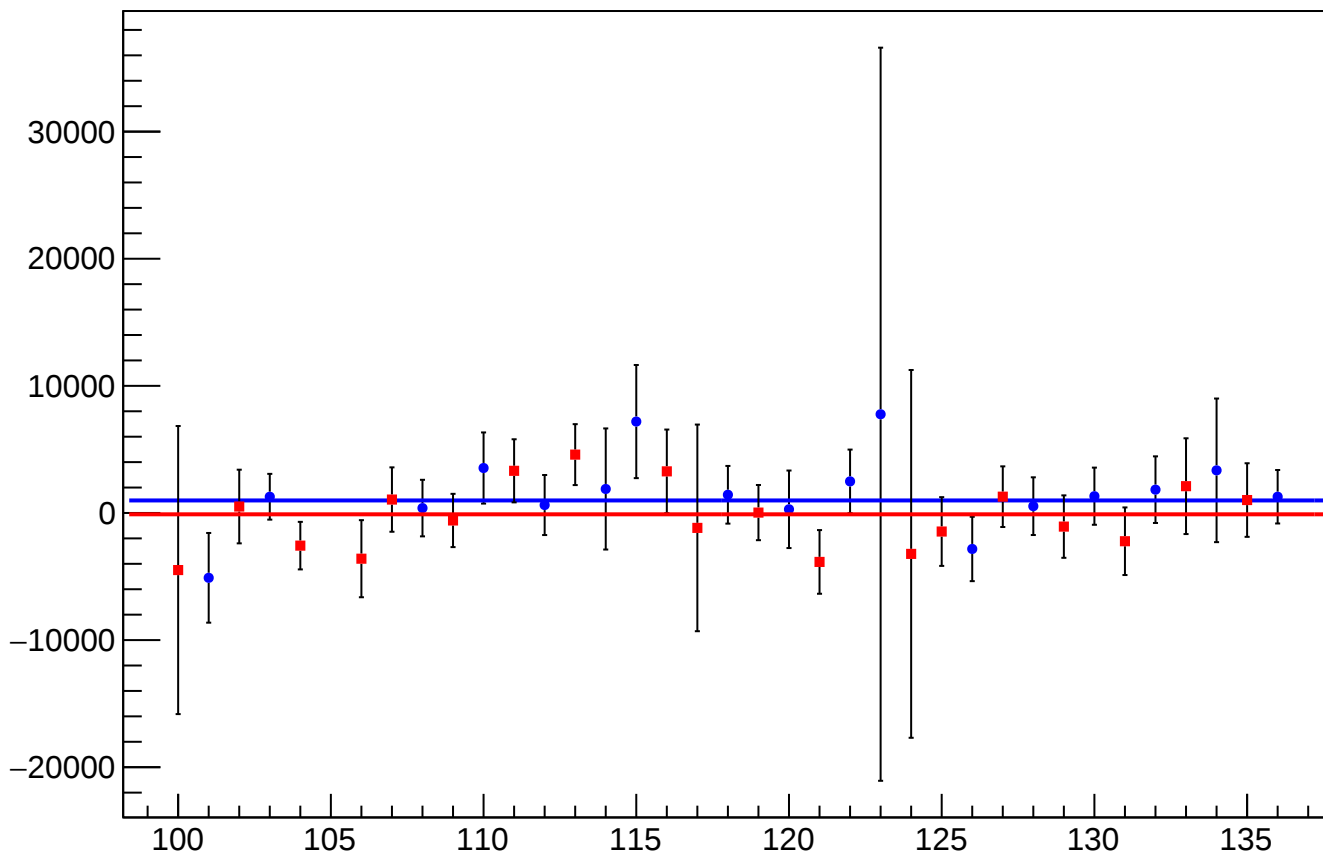
7503.667 $\pm$ 2.101  $\chi^2$ /NDF: 427313.5/16

Right Out: 7167.606 $\pm$ 1.988  $\chi^2$ /NDF: 551641.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7167.606 $\pm$ 1.988  $\chi^2$ /NDF: 551641.6/18

# reg\_asym\_at2\_dd\_mean vs Slug



Right In: 985.452+/-644.630  $\chi^2/\text{NDF}$ : 9.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

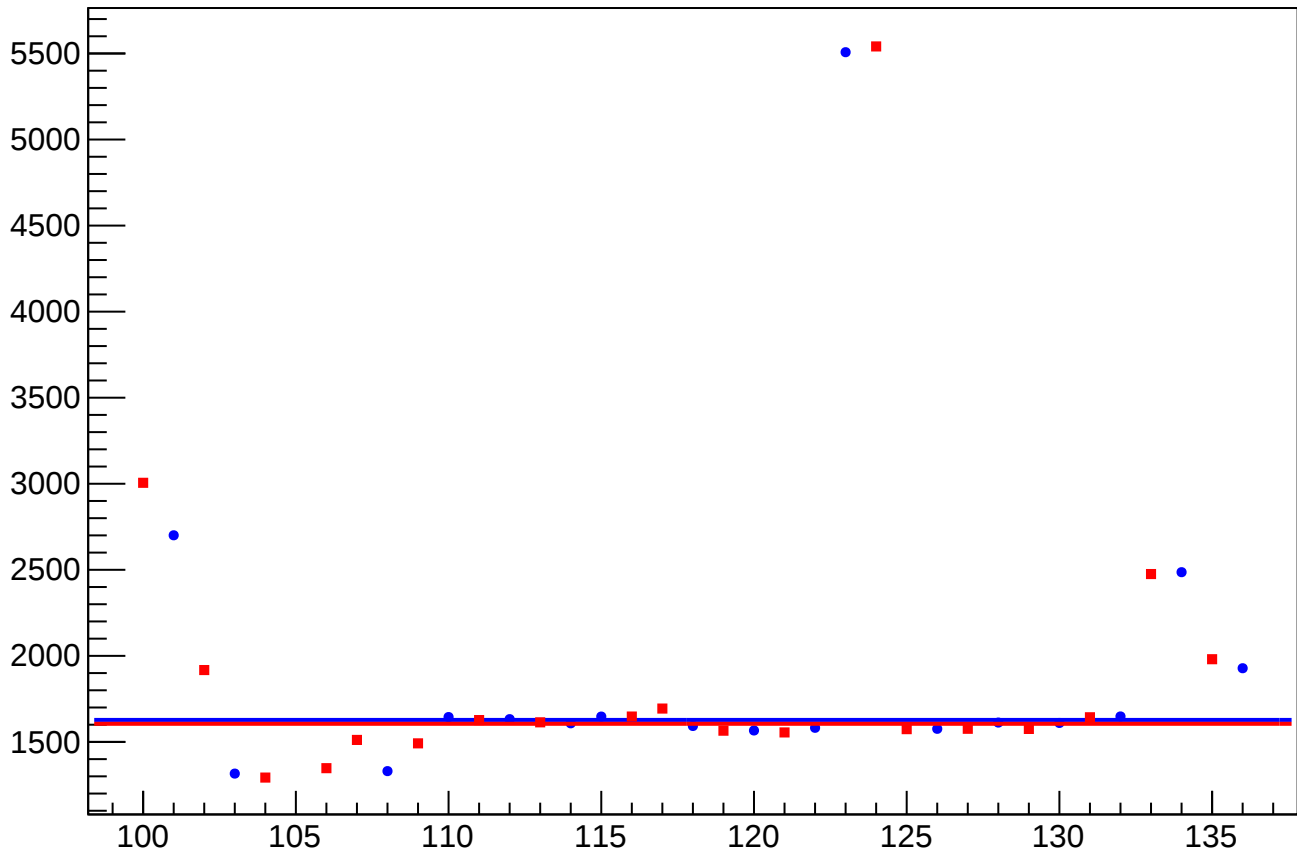
Right Out: -105.523+/-628.029  $\chi^2/\text{NDF}$ : 14.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

985.452+/-644.630  $\chi^2/\text{NDF}$ : 9.1/16

-105.523+/-628.029  $\chi^2/\text{NDF}$ : 14.5/18

# reg\_asym\_at2\_dd\_rms vs Slug



Right In: 1627.836 $\pm$ 0.456  $\chi^2$ /NDF: 407106.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

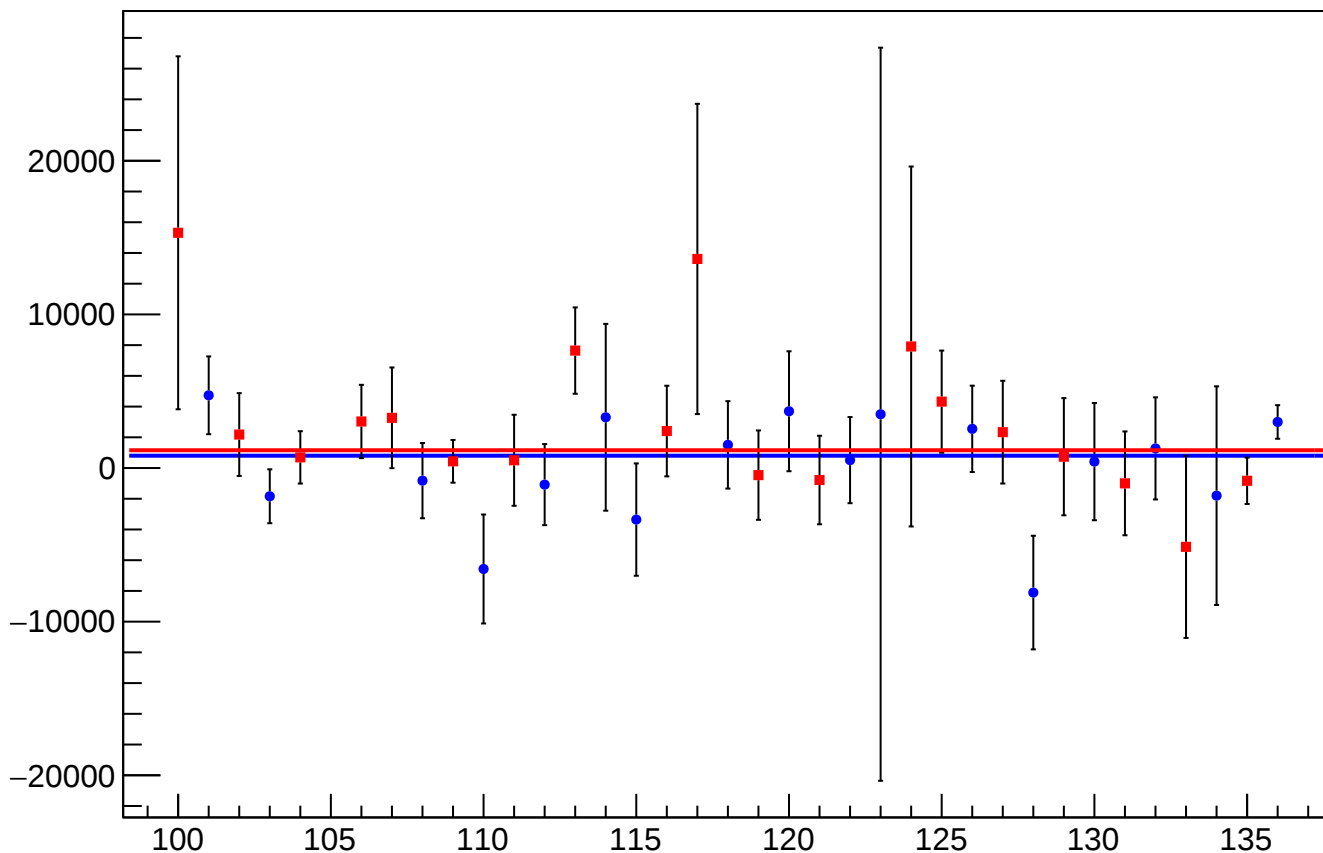
1627.836 $\pm$ 0.456  $\chi^2$ /NDF: 407106.6/16

Right Out: 1605.273 $\pm$ 0.444  $\chi^2$ /NDF: 424527.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1605.273 $\pm$ 0.444  $\chi^2$ /NDF: 424527.9/18

# asym\_at2\_dd\_correction\_mean vs Slug



Right In: 803.048+/-631.676  $\chi^2/\text{NDF}$ : 22.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

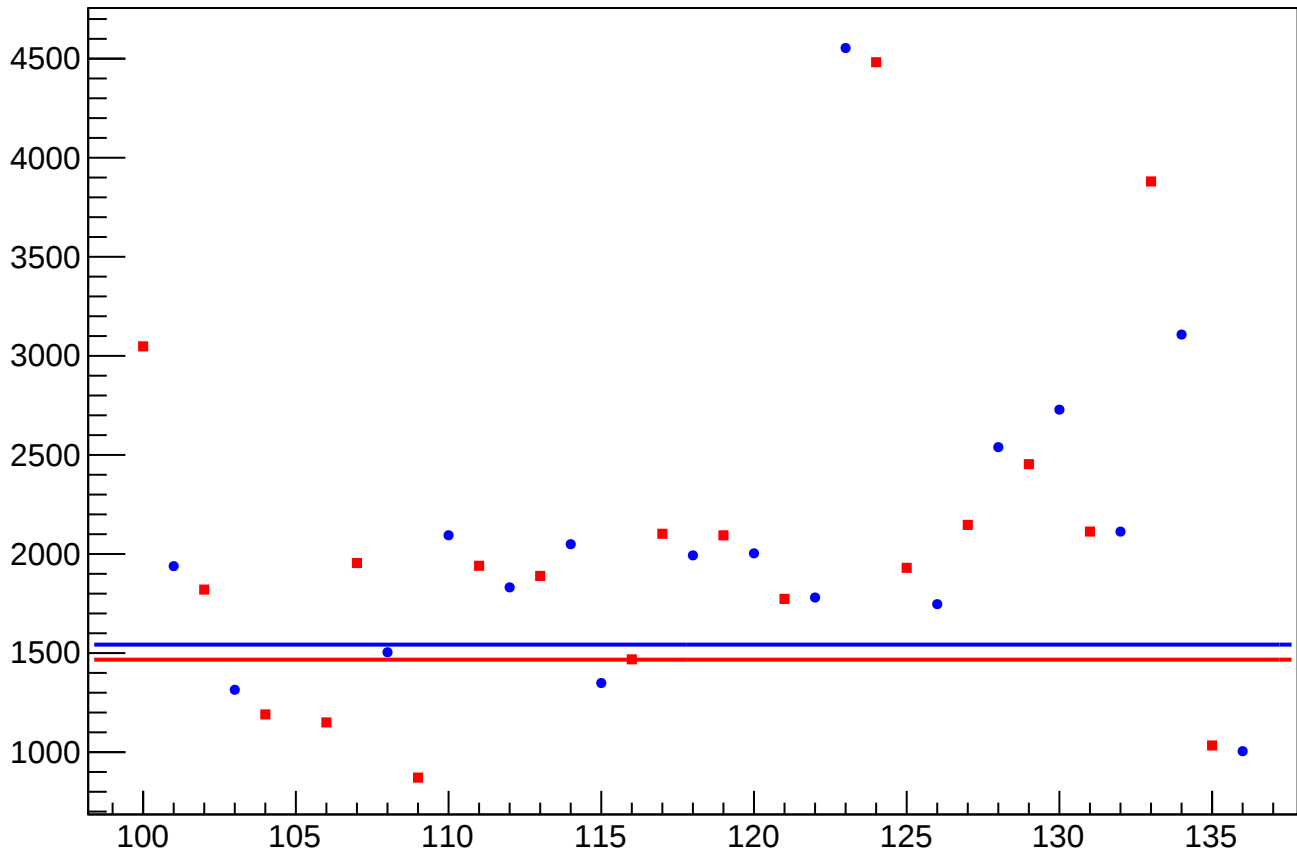
Right Out: 1157.983+/-609.658  $\chi^2/\text{NDF}$ : 15.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

803.048+/-631.676  $\chi^2/\text{NDF}$ : 22.4/16

1157.983+/-609.658  $\chi^2/\text{NDF}$ : 15.5/18

# asym\_at2\_dd\_correction\_rms vs Slug



Right In: 1542.705 $\pm$ 0.447  $\chi^2$ /NDF: 1287946.3/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

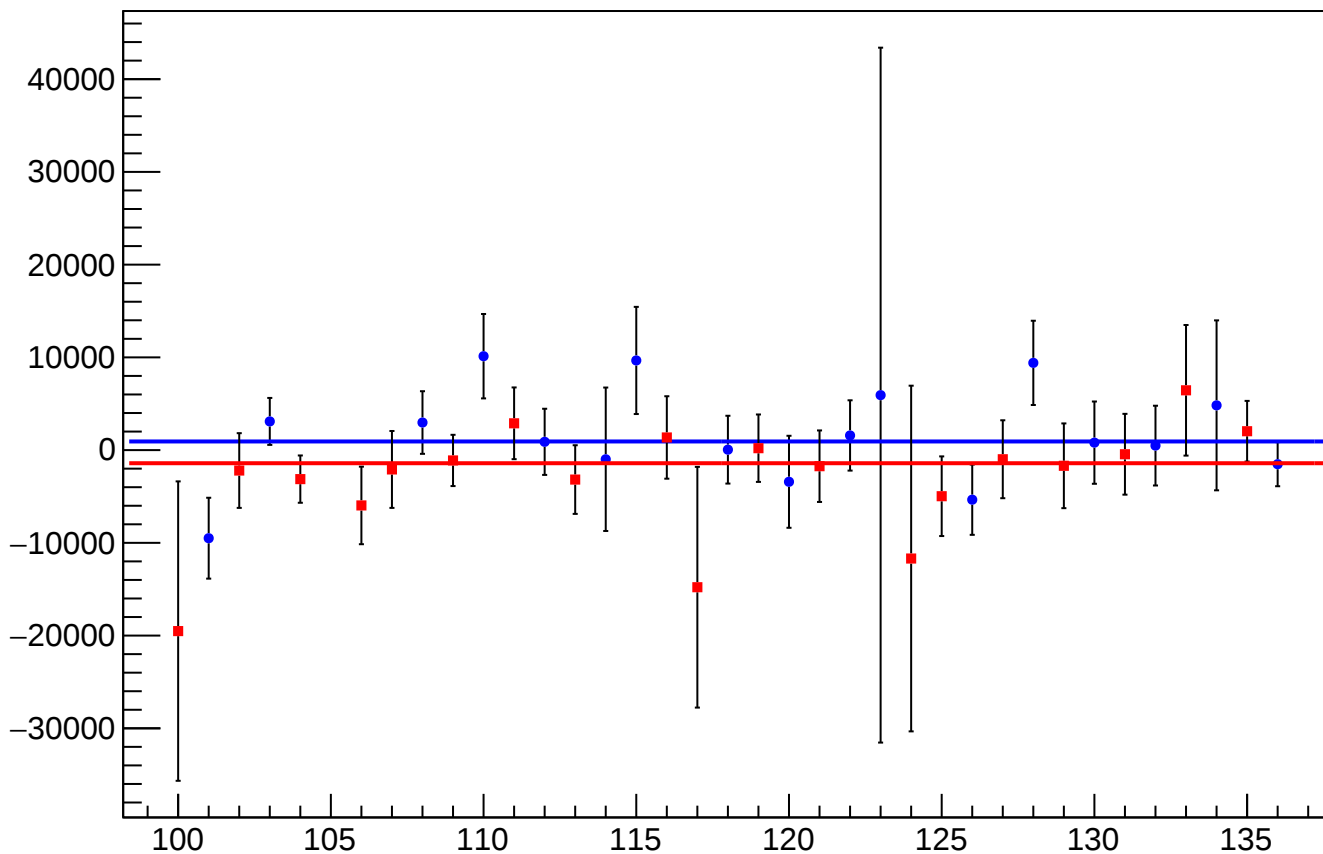
Right Out: 1466.822 $\pm$ 0.431  $\chi^2$ /NDF: 1748216.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1542.705 $\pm$ 0.447  $\chi^2$ /NDF: 1287946.3/16

1466.822 $\pm$ 0.431  $\chi^2$ /NDF: 1748216.7/18

# asym\_at2\_dd\_mean vs Slug



Right In: 932.818+/-967.941  $\chi^2/\text{NDF}$ : 21.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

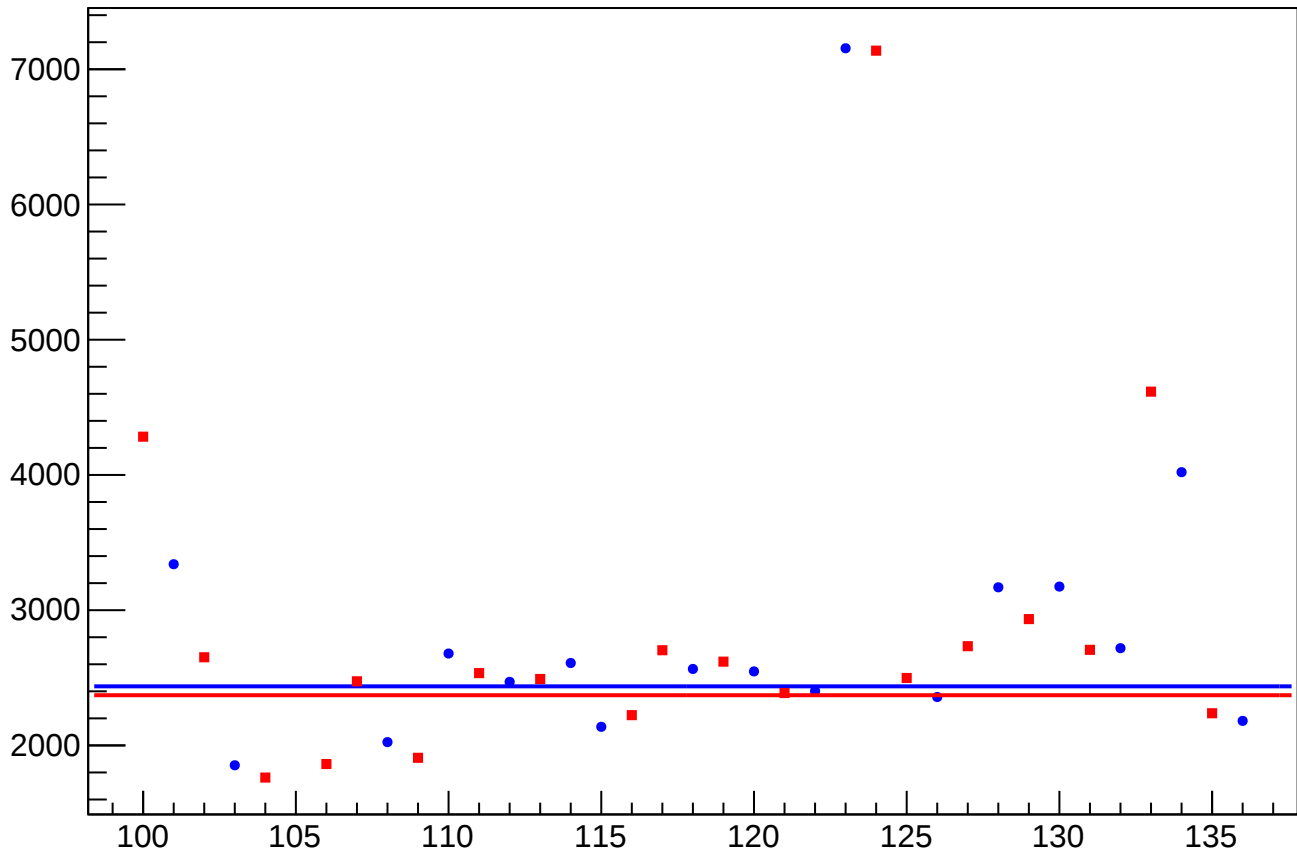
Right Out: -1413.476+/-939.540  $\chi^2/\text{NDF}$ : 9.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

932.818+/-967.941  $\chi^2/\text{NDF}$ : 21.6/16

-1413.476+/-939.540  $\chi^2/\text{NDF}$ : 9.5/18

# asym\_at2\_dd\_rms vs Slug



Right In: 2436.855+/-0.684  $\chi^2/\text{NDF}$ : 469030.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

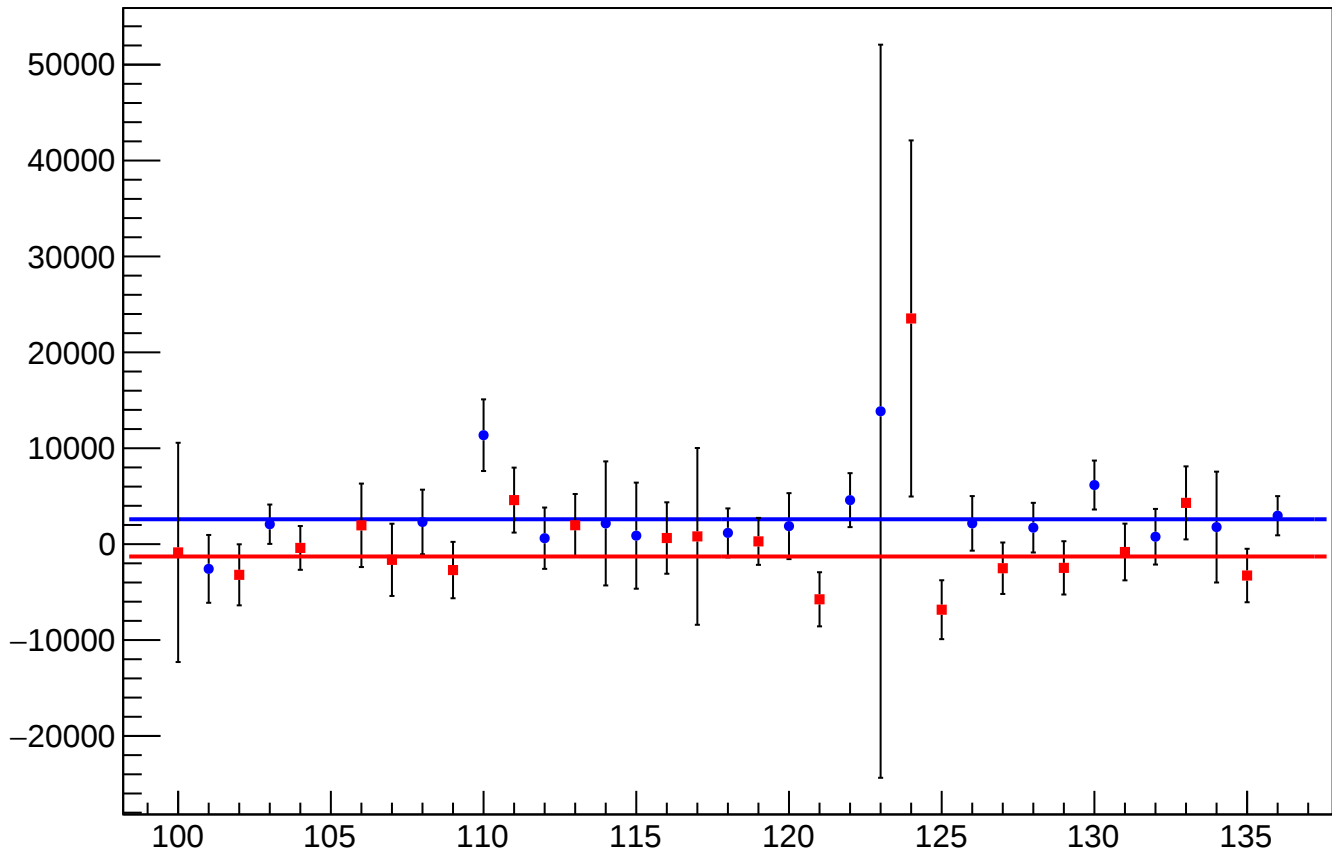
Right Out: 2371.165+/-0.664  $\chi^2/\text{NDF}$ : 653506.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2436.855+/-0.684  $\chi^2/\text{NDF}$ : 469030.2/16

2371.165+/-0.664  $\chi^2/\text{NDF}$ : 653506.0/18

# reg\_asym\_atl1r2\_avg\_mean vs Slug



Right In: 2594.684+/-743.000  $\chi^2/\text{NDF}$ : 11.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

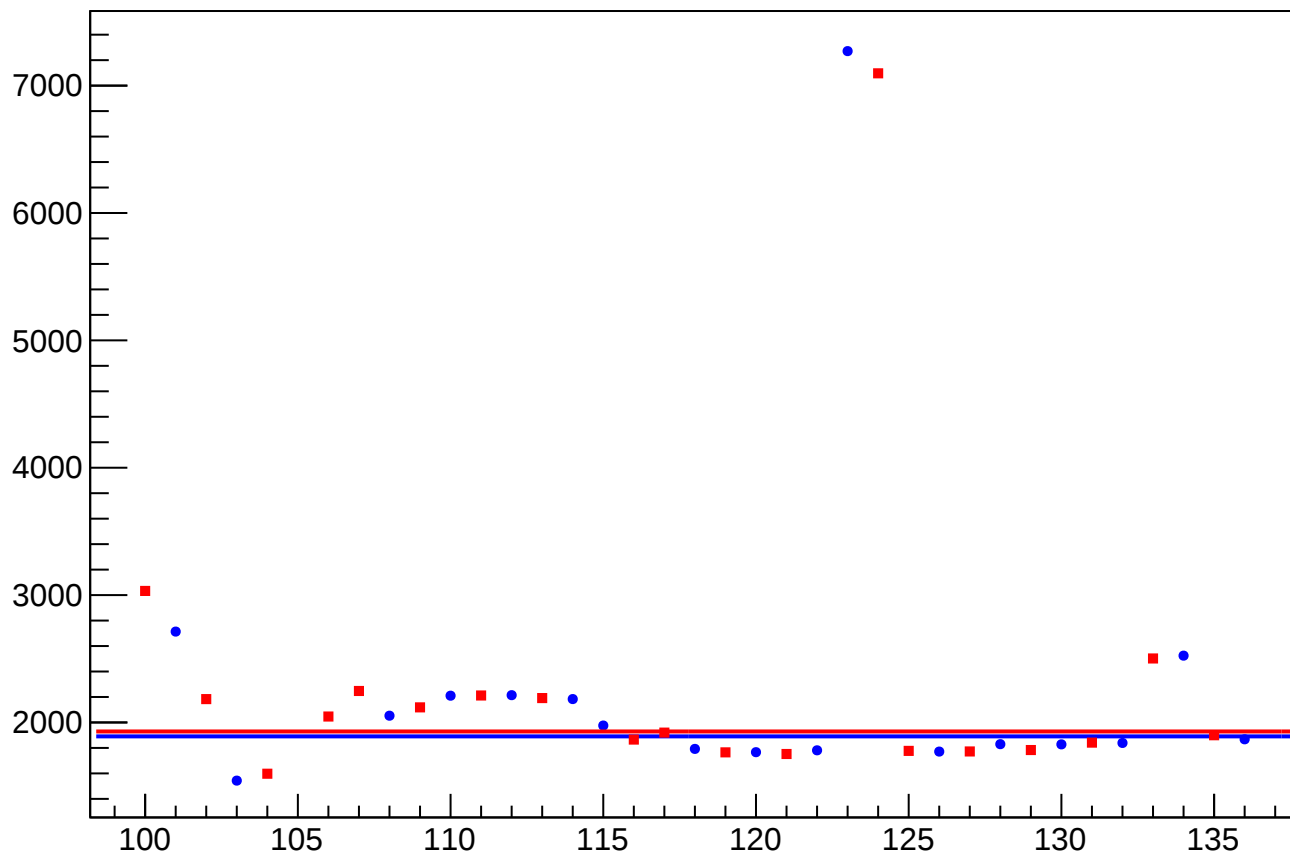
Right Out: -1287.437+/-748.583  $\chi^2/\text{NDF}$ : 16.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2594.684+/-743.000  $\chi^2/\text{NDF}$ : 11.7/16

-1287.437+/-748.583  $\chi^2/\text{NDF}$ : 16.7/18

# reg\_asym\_atl1r2\_avg\_rms vs Slug



Right In: 1890.721+/-0.525  $\chi^2/\text{NDF}$ : 288944.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

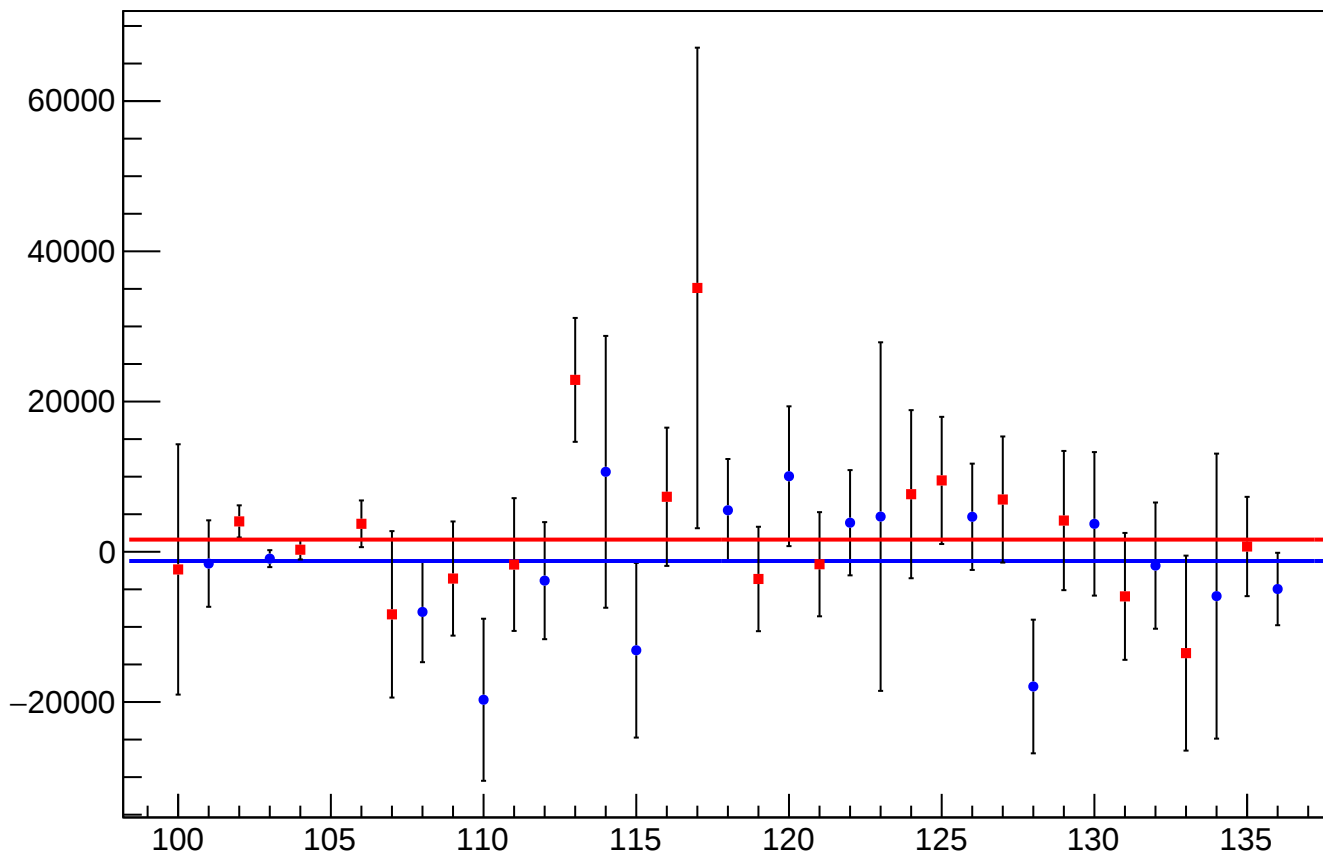
Right Out: 1929.296+/-0.528  $\chi^2/\text{NDF}$ : 361573.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1890.721+/-0.525  $\chi^2/\text{NDF}$ : 288944.9/16

1929.296+/-0.528  $\chi^2/\text{NDF}$ : 361573.4/18

# asym\_atl1r2\_avg\_correction\_mean vs Slug



Right In: -1226.915+/-984.603  $\chi^2/\text{NDF}$ : 13.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

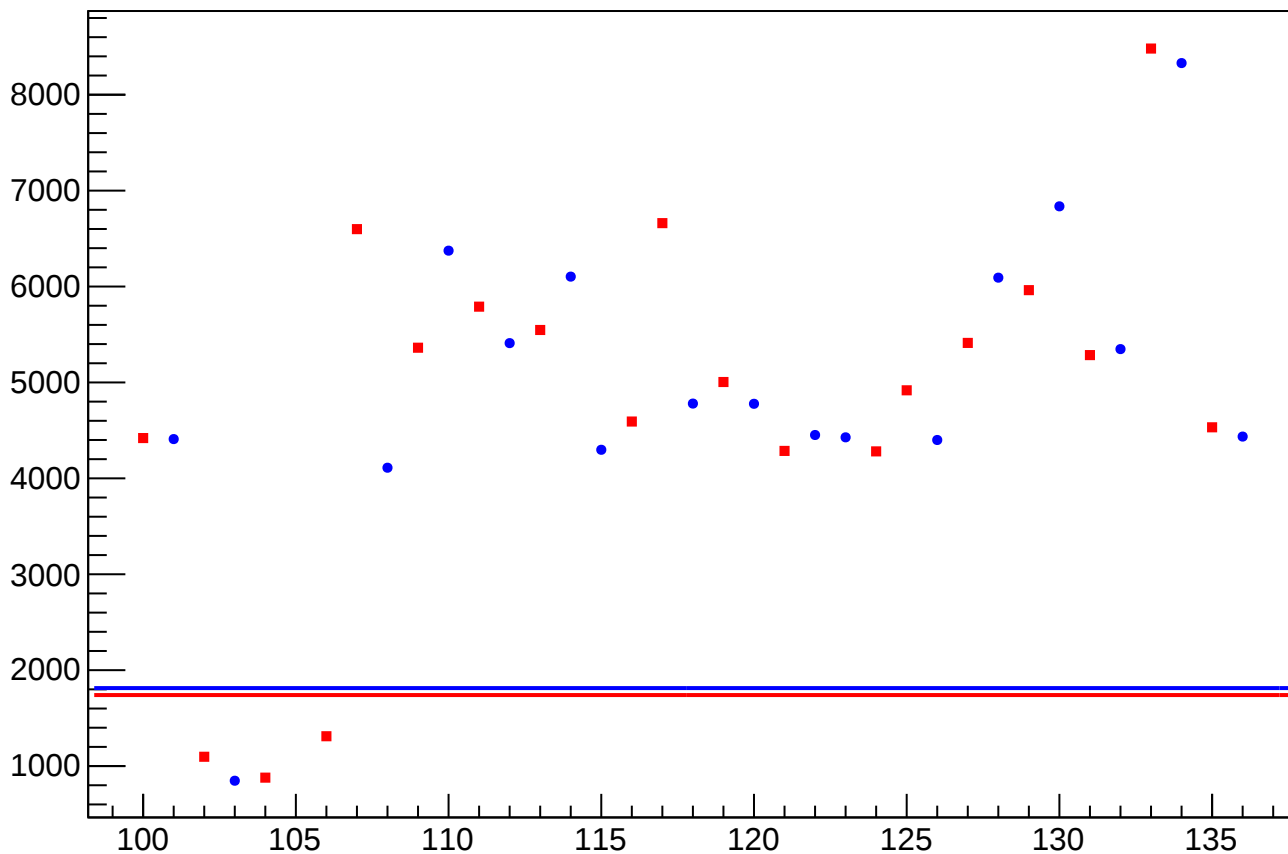
Right Out: 1622.229+/-945.141  $\chi^2/\text{NDF}$ : 17.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1226.915+/-984.603  $\chi^2/\text{NDF}$ : 13.8/16

1622.229+/-945.141  $\chi^2/\text{NDF}$ : 17.0/18

# asym\_atl1r2\_avg\_correction\_rms vs Slug



Right In: 1813.195+/-0.696  $\chi^2/\text{NDF}$ : 6449038.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

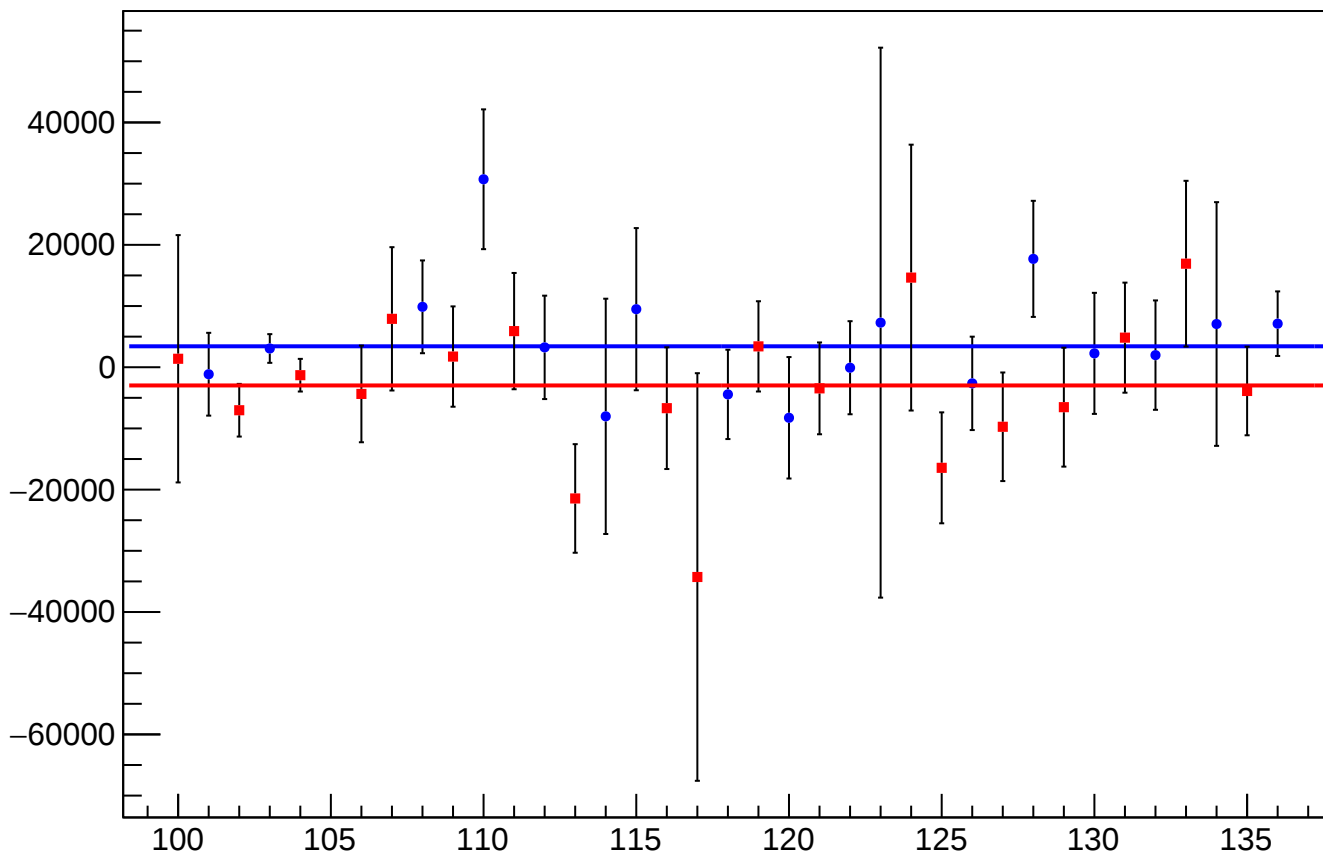
Right Out: 1740.504+/-0.668  $\chi^2/\text{NDF}$ : 6220212.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1813.195+/-0.696  $\chi^2/\text{NDF}$ : 6449038.4/16

1740.504+/-0.668  $\chi^2/\text{NDF}$ : 6220212.5/18

# asym\_atl1r2\_avg\_mean vs Slug



Right In: 3421.264+/-1606.678  $\chi^2/\text{NDF}$ : 13.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

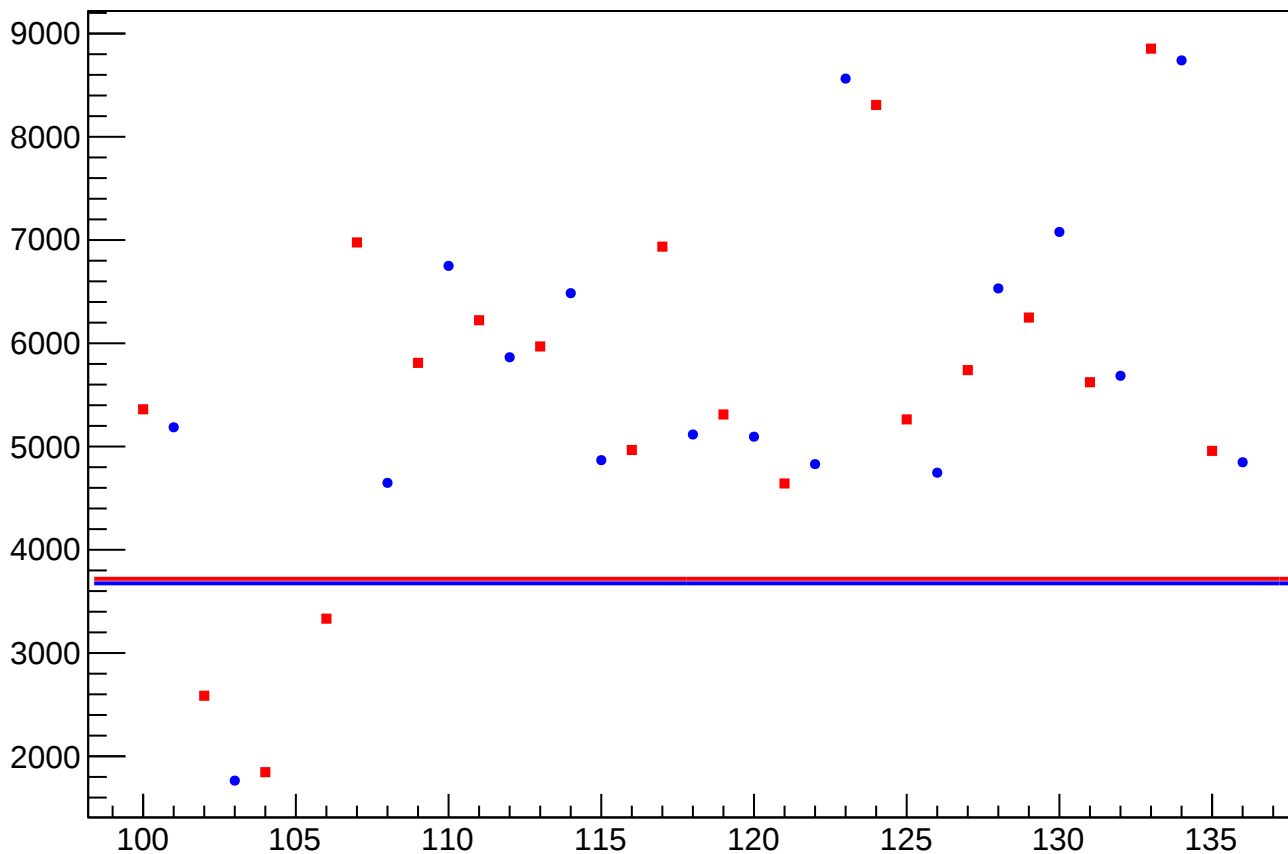
Right Out: -2976.835+/-1620.996  $\chi^2/\text{NDF}$ : 16.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3421.264+/-1606.678  $\chi^2/\text{NDF}$ : 13.7/16

-2976.835+/-1620.996  $\chi^2/\text{NDF}$ : 16.0/18

# asym\_atl1r2\_avg\_rms vs Slug



Right In: 3675.003+/-1.136  $\chi^2/\text{NDF}$ : 2775085.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

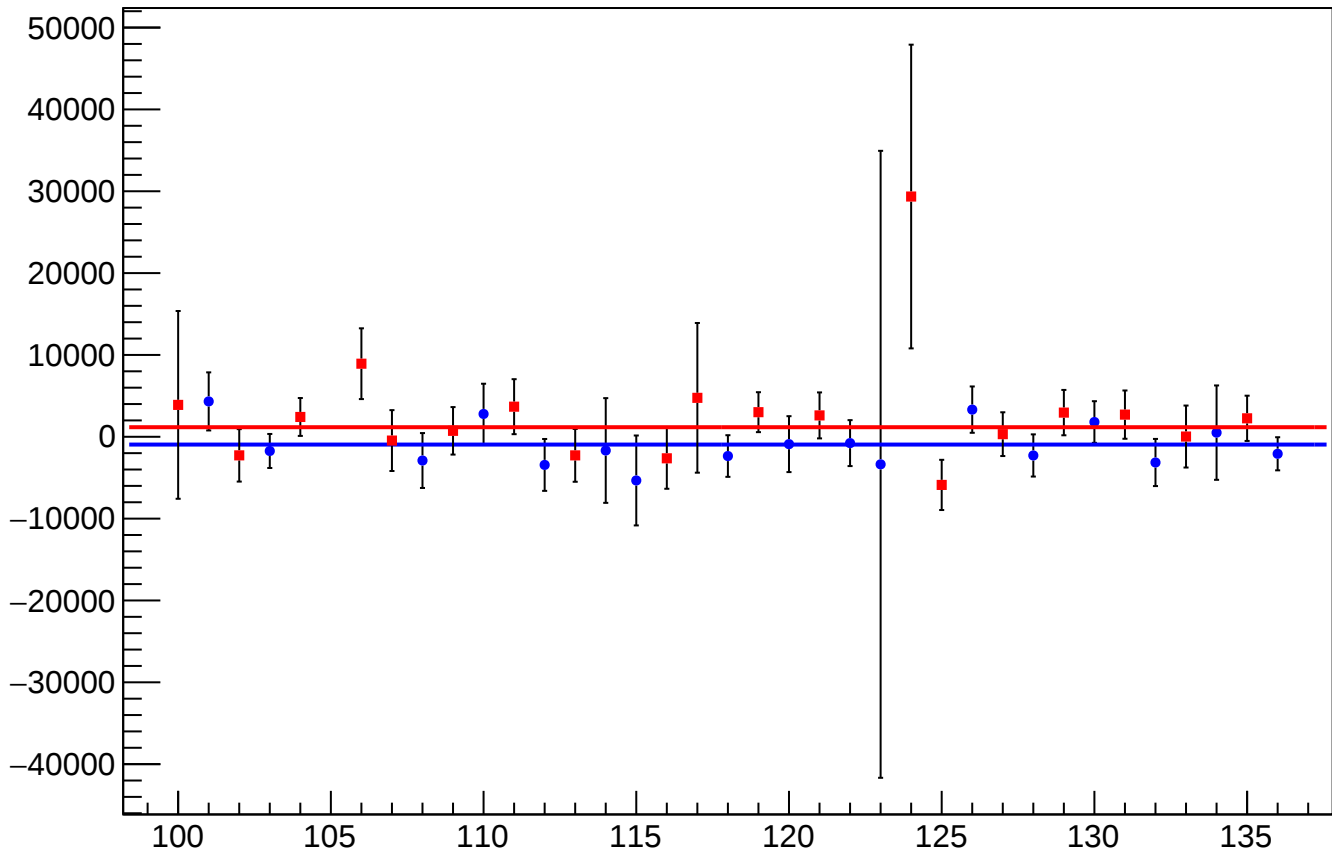
Right Out: 3719.169+/-1.138  $\chi^2/\text{NDF}$ : 2692538.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3675.003+/-1.136  $\chi^2/\text{NDF}$ : 2775085.7/16

3719.169+/-1.138  $\chi^2/\text{NDF}$ : 2692538.1/18

# reg\_asym\_atl1r2\_dd\_mean vs Slug



Right In: -951.377+/-740.668  $\chi^2/\text{NDF}$ : 10.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

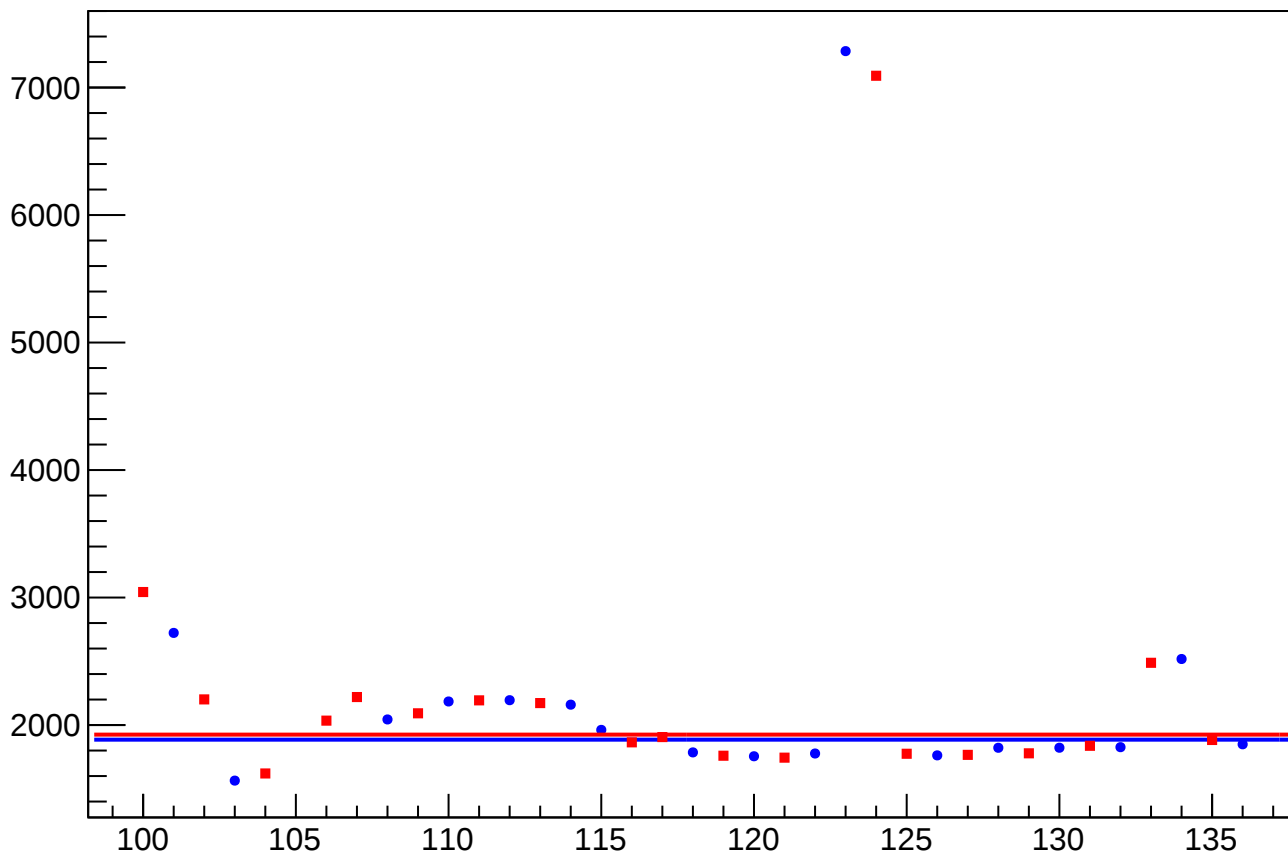
Right Out: 1170.182+/-746.468  $\chi^2/\text{NDF}$ : 17.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-951.377+/-740.668  $\chi^2/\text{NDF}$ : 10.0/16

1170.182+/-746.468  $\chi^2/\text{NDF}$ : 17.3/18

# reg\_asym\_atl1r2\_dd\_rms vs Slug



Right In: 1885.360 $\pm$ 0.524  $\chi^2/\text{NDF}$ : 280429.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

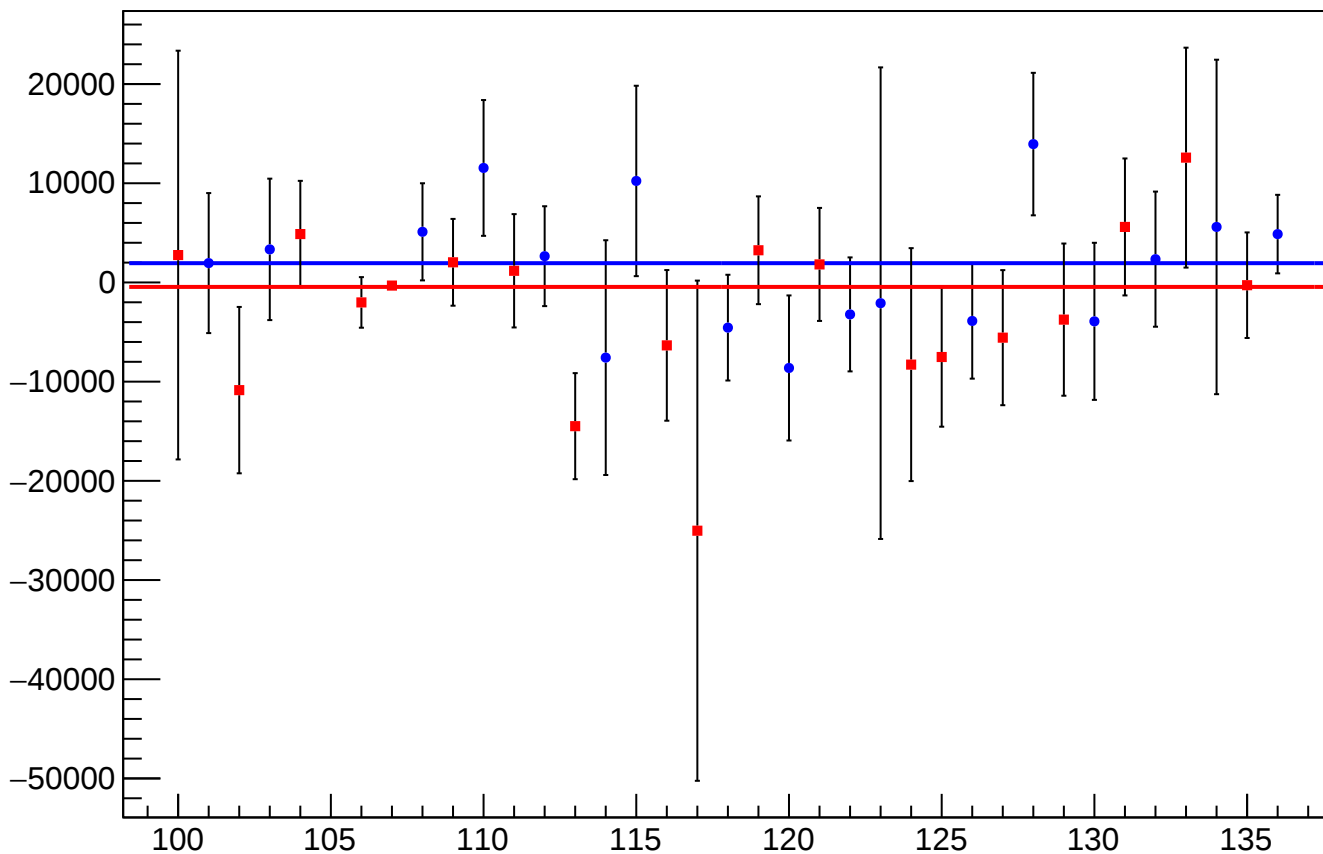
Right Out: 1924.909 $\pm$ 0.527  $\chi^2/\text{NDF}$ : 350781.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

1885.360 $\pm$ 0.524  $\chi^2/\text{NDF}$ : 280429.0/16

1924.909 $\pm$ 0.527  $\chi^2/\text{NDF}$ : 350781.6/18

# asym\_atl1r2\_dd\_correction\_mean vs Slug



Right In: 1943.178+/-1581.060  $\chi^2/\text{NDF}$ : 13.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

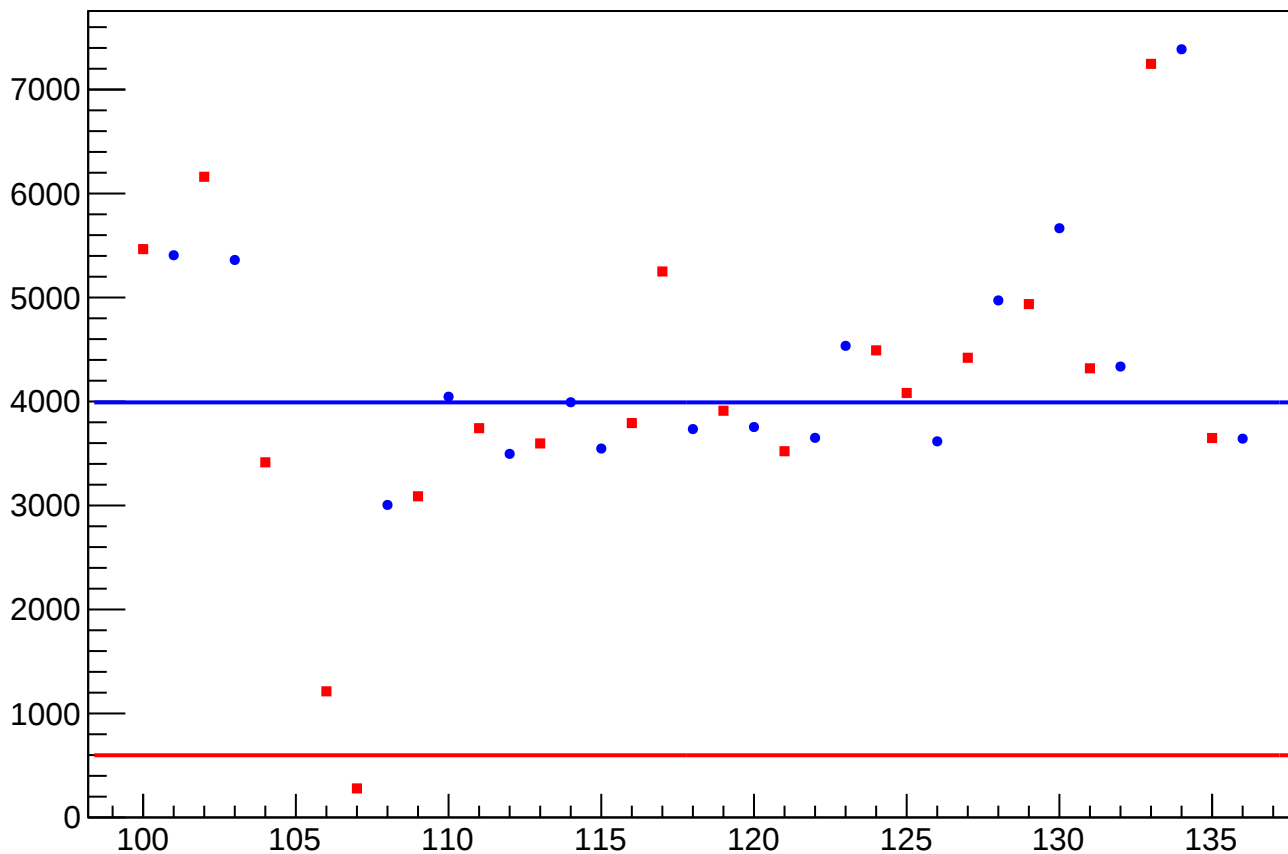
Right Out: -449.913+/-454.298  $\chi^2/\text{NDF}$ : 16.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1943.178+/-1581.060  $\chi^2/\text{NDF}$ : 13.2/16

-449.913+/-454.298  $\chi^2/\text{NDF}$ : 16.8/18

# asym\_atl1r2\_dd\_correction\_rms vs Slug



Right In: 3991.416+/-1.118  $\chi^2/\text{NDF}$ : 510782.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

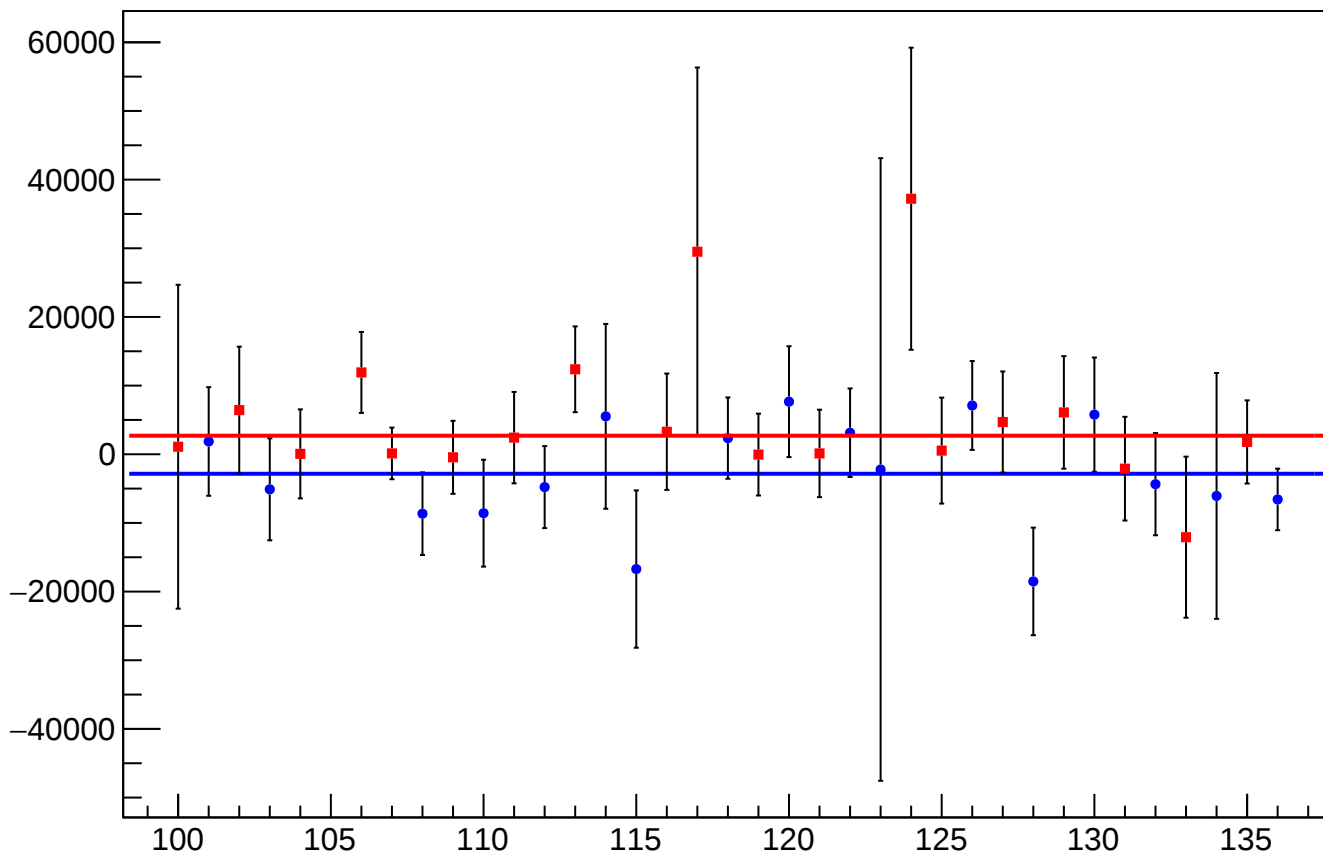
Right Out: 598.200+/-0.321  $\chi^2/\text{NDF}$ : 10052701.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3991.416+/-1.118  $\chi^2/\text{NDF}$ : 510782.7/16

598.200+/-0.321  $\chi^2/\text{NDF}$ : 10052701.3/18

# asym\_atl1r2\_dd\_mean vs Slug



Right In: -2839.599+/-1786.019  $\chi^2$ /NDF: 15.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

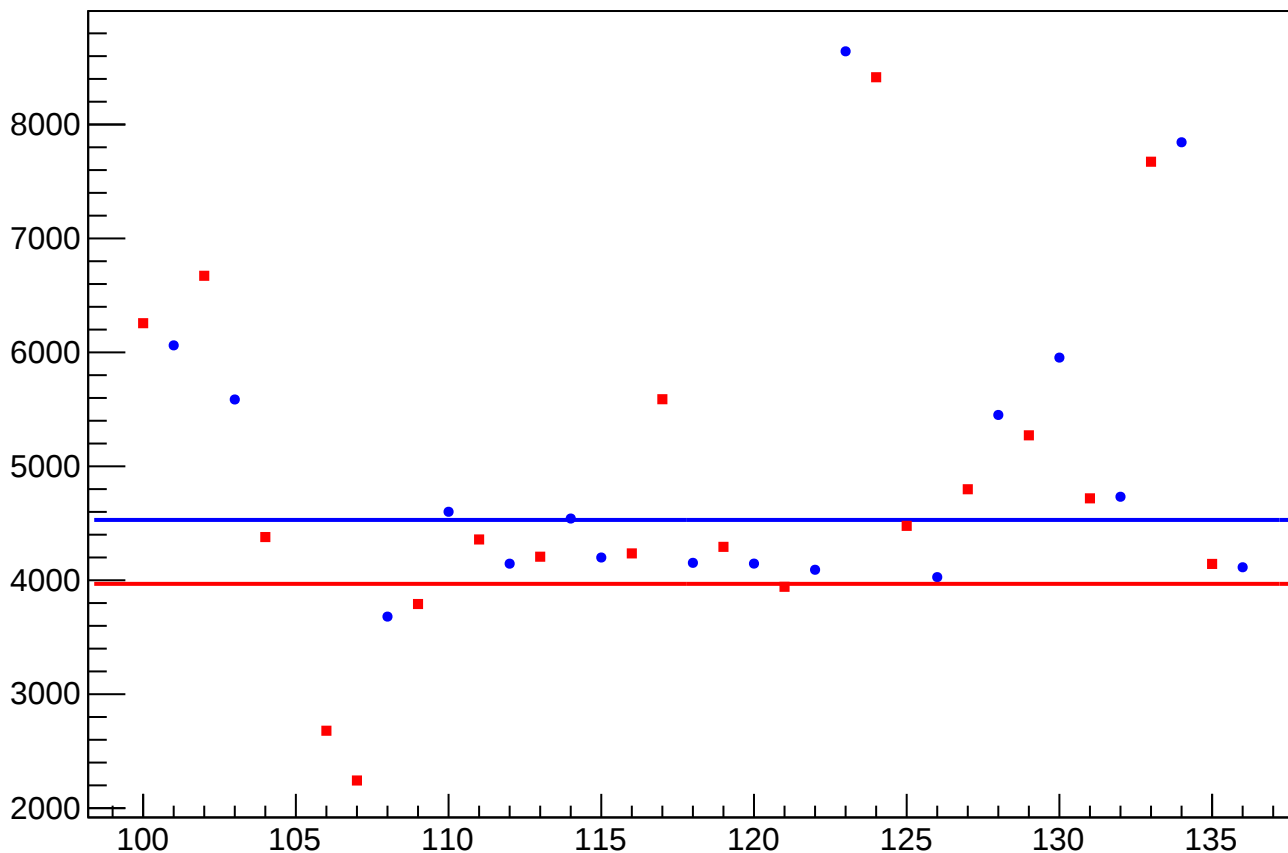
Right Out: 2703.364+/-1595.478  $\chi^2$ /NDF: 12.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2839.599+/-1786.019  $\chi^2$ /NDF: 15.4/16

2703.364+/-1595.478  $\chi^2$ /NDF: 12.2/18

# asym\_atl1r2\_dd\_rms vs Slug



Right In: 4529.462 $\pm$ 1.263  $\chi^2$ /NDF: 389326.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

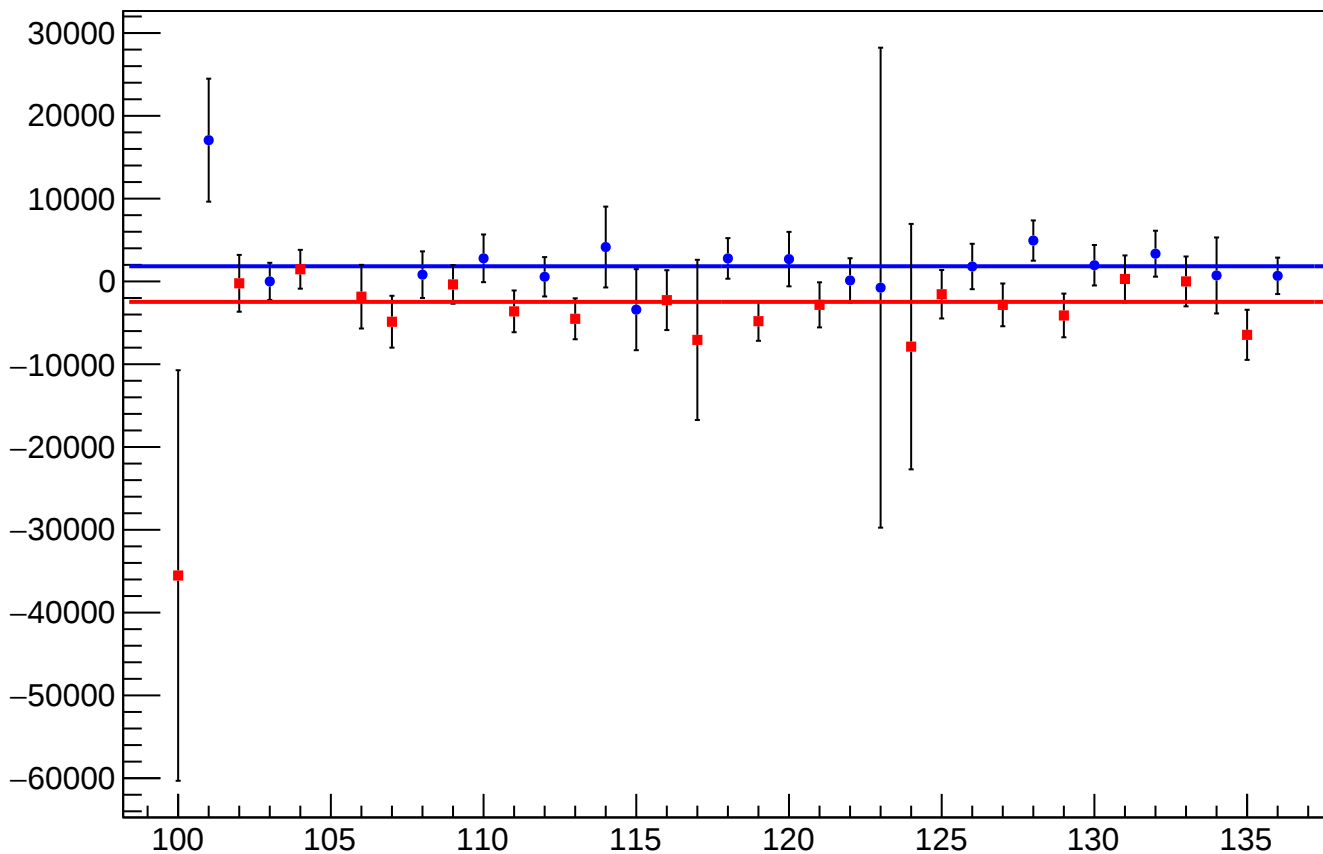
Right Out: 3968.461 $\pm$ 1.121  $\chi^2$ /NDF: 1147613.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

4529.462 $\pm$ 1.263  $\chi^2$ /NDF: 389326.2/16

3968.461 $\pm$ 1.121  $\chi^2$ /NDF: 1147613.3/18

# reg\_asym\_atr1l2\_avg\_mean vs Slug



Right In: 1830.102 $\pm$ 711.335  $\chi^2$ /NDF: 9.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

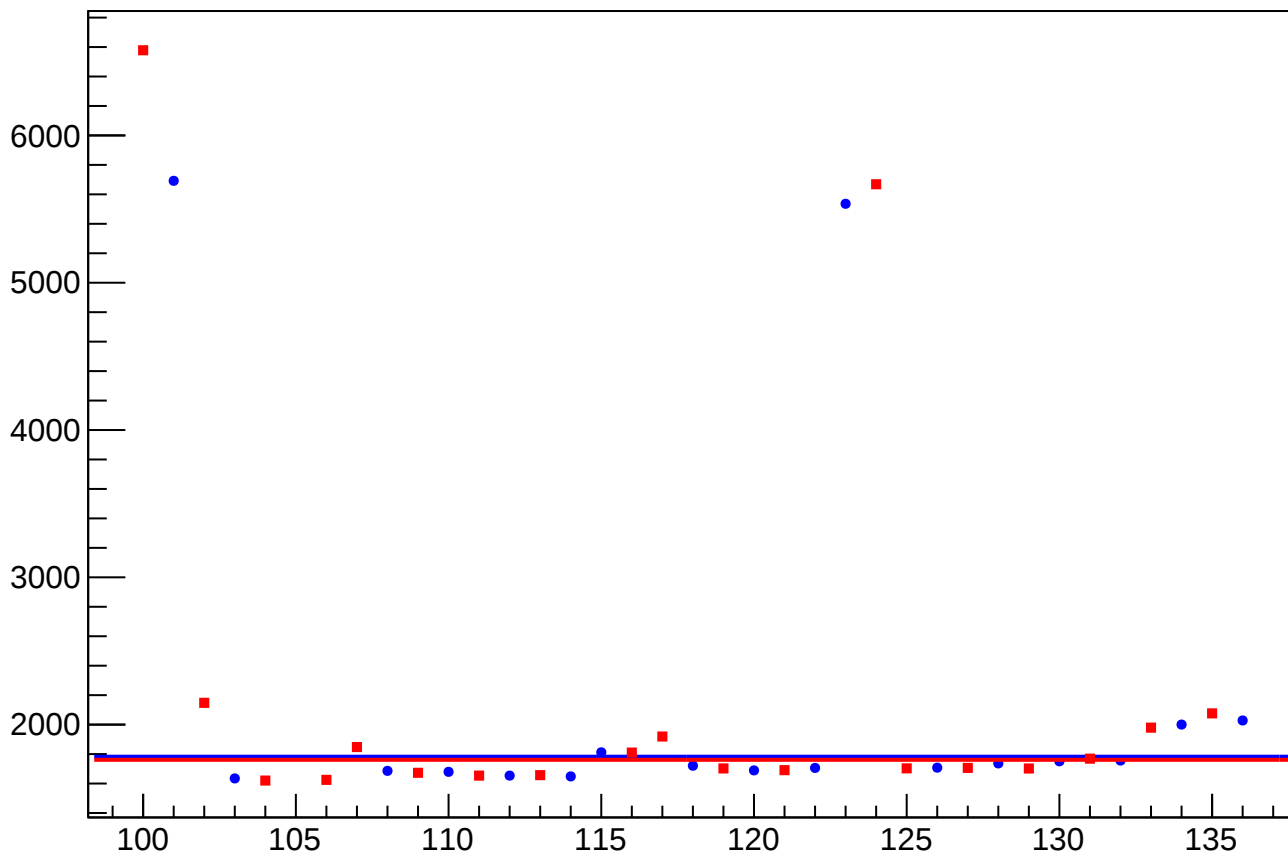
Right Out: -2470.002 $\pm$ 689.892  $\chi^2$ /NDF: 12.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1830.102 $\pm$ 711.335  $\chi^2$ /NDF: 9.7/16

-2470.002 $\pm$ 689.892  $\chi^2$ /NDF: 12.5/18

# reg\_asym\_atr1l2\_avg\_rms vs Slug



Right In: 1782.137+/-0.503  $\chi^2/\text{NDF}$ : 645188.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

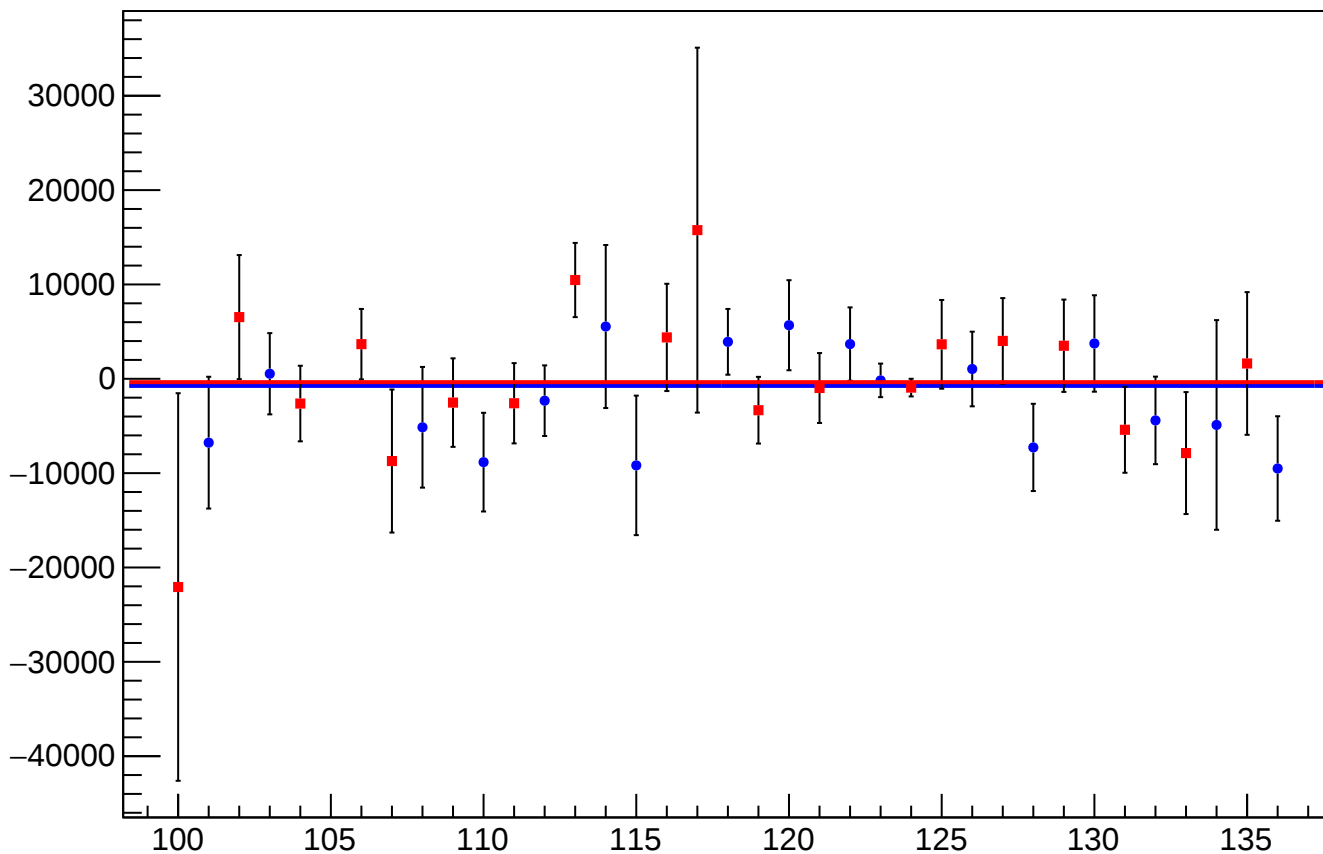
Right Out: 1760.993+/-0.484  $\chi^2/\text{NDF}$ : 300651.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1782.137+/-0.503  $\chi^2/\text{NDF}$ : 645188.8/16

1760.993+/-0.484  $\chi^2/\text{NDF}$ : 300651.2/18

asym\_atr1l2\_avg\_correction\_mean vs Slug



Right In: -753.428+/-1008.523  $\chi^2/\text{NDF}$ : 16.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

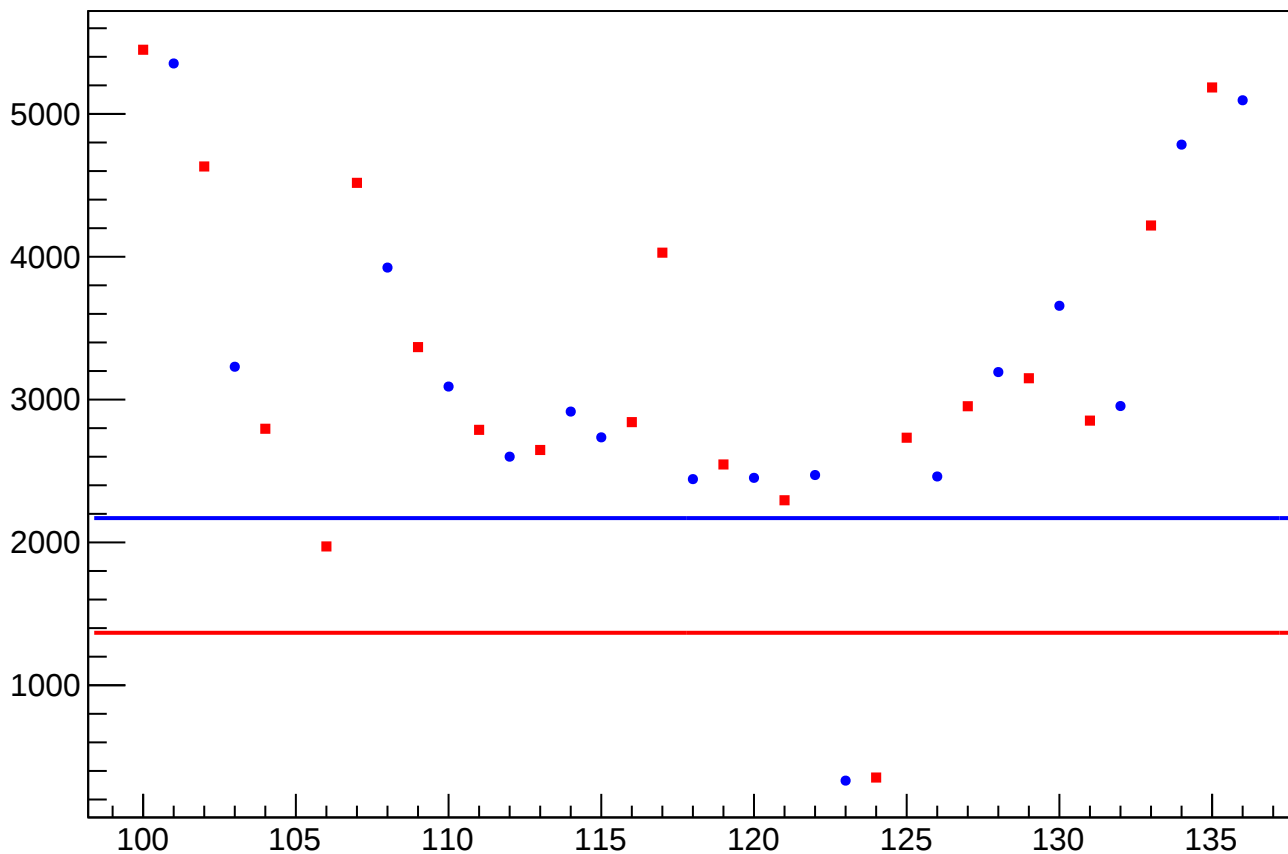
Right Out: -355.757+/-725.980  $\chi^2/\text{NDF}$ : 20.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-753.428+/-1008.523  $\chi^2/\text{NDF}$ : 16.9/16

-355.757+/-725.980  $\chi^2/\text{NDF}$ : 20.4/18

# asym\_atr1l2\_avg\_correction\_rms vs Slug



Right In: 2170.242 $\pm$ 0.713  $\chi^2$ /NDF: 3973725.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

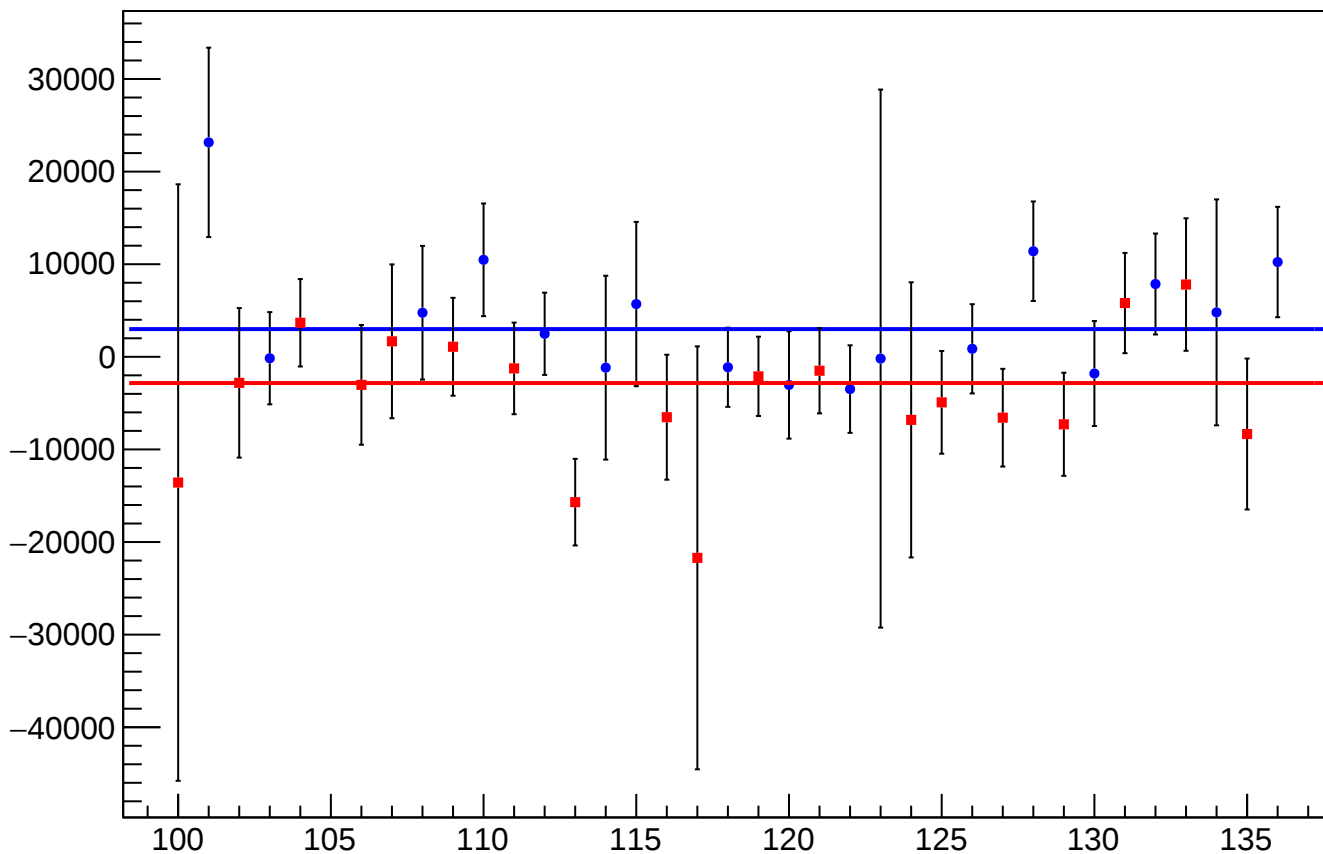
Right Out: 1367.287 $\pm$ 0.513  $\chi^2$ /NDF: 6681458.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2170.242 $\pm$ 0.713  $\chi^2$ /NDF: 3973725.5/16

1367.287 $\pm$ 0.513  $\chi^2$ /NDF: 6681458.5/18

# asym\_atr1l2\_avg\_mean vs Slug



Right In: 2992.806+/-1447.211  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

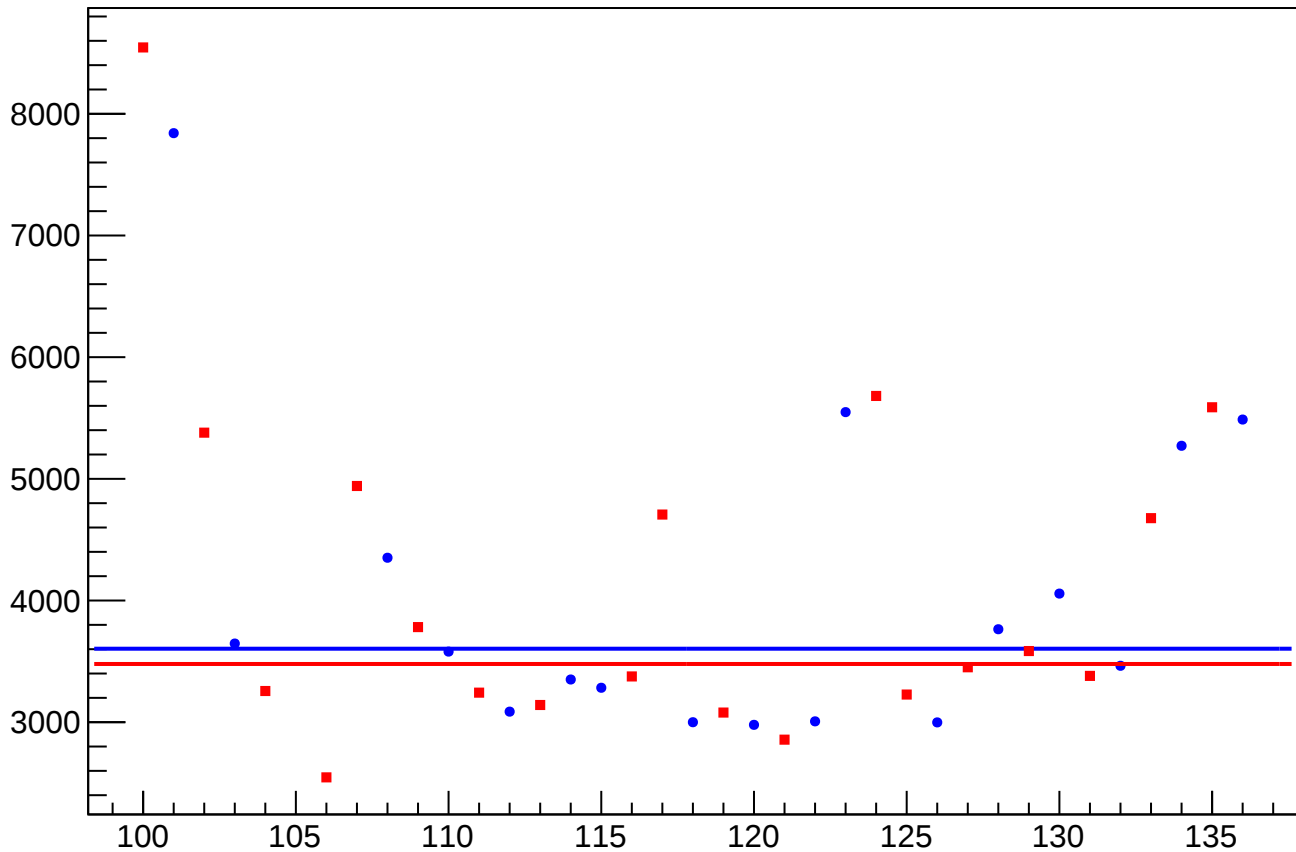
Right Out: -2831.604+/-1384.704  $\chi^2/\text{NDF}$ : 18.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2992.806+/-1447.211  $\chi^2/\text{NDF}$ : 15.7/16

-2831.604+/-1384.704  $\chi^2/\text{NDF}$ : 18.2/18

# asym\_atr1l2\_avg\_rms vs Slug



Right In: 3603.930+/-1.023  $\chi^2/\text{NDF}$ : 784674.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

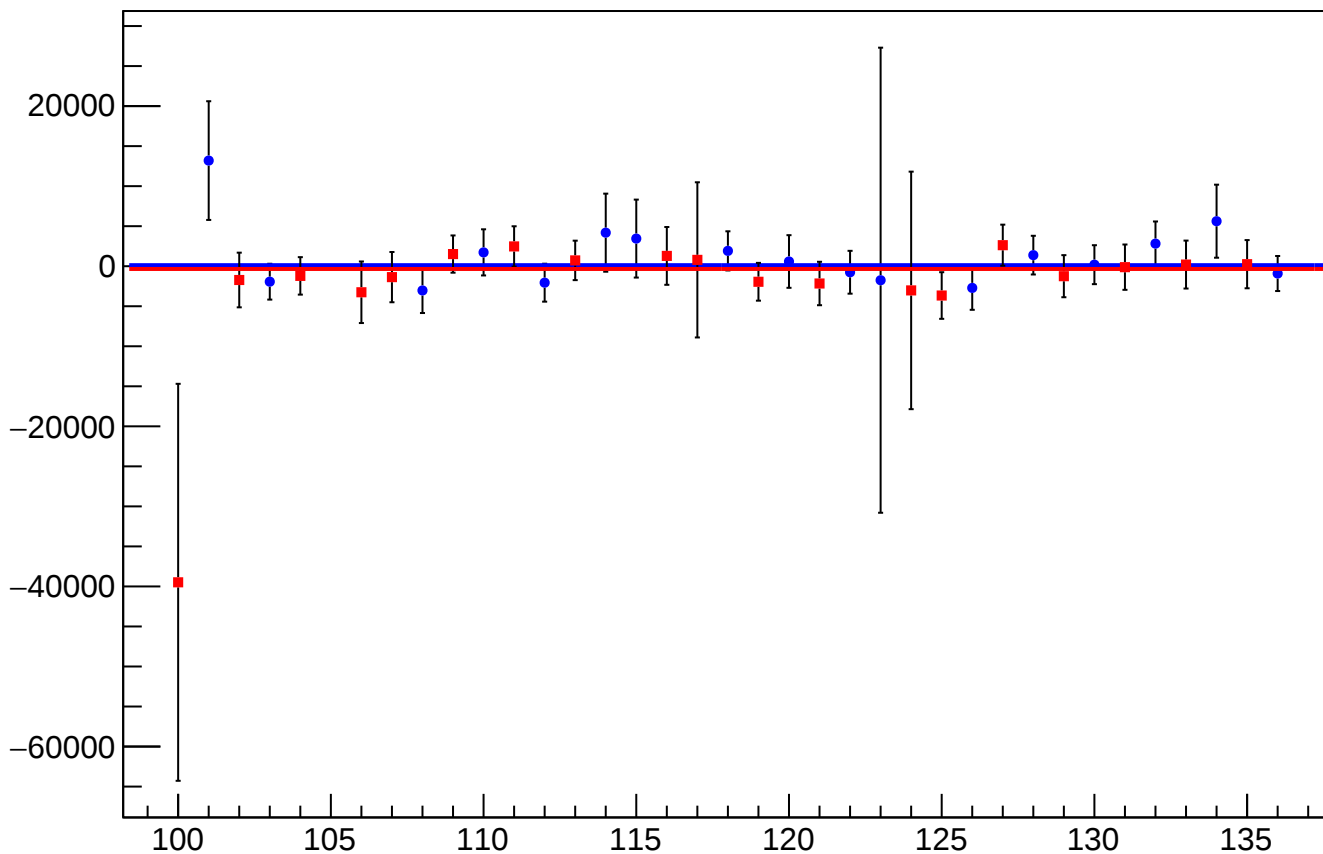
3603.930+/-1.023  $\chi^2/\text{NDF}$ : 784674.5/16

Right Out: 3478.443+/-0.965  $\chi^2/\text{NDF}$ : 615641.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3478.443+/-0.965  $\chi^2/\text{NDF}$ : 615641.1/18

# reg\_asym\_atr1l2\_dd\_mean vs Slug



Right In: 130.913+/-709.207  $\chi^2/\text{NDF}$ : 12.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

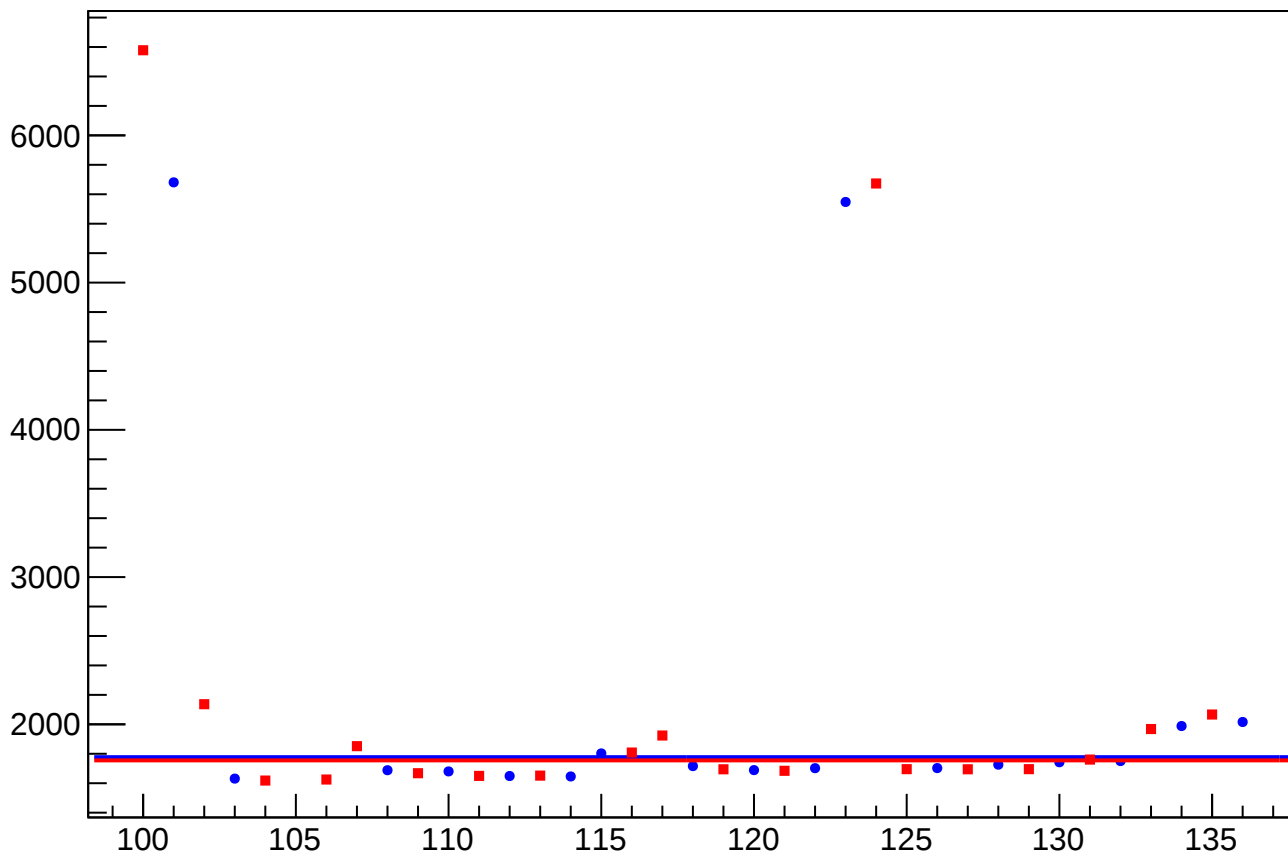
Right Out: -343.206+/-687.557  $\chi^2/\text{NDF}$ : 9.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

130.913+/-709.207  $\chi^2/\text{NDF}$ : 12.2/16

-343.206+/-687.557  $\chi^2/\text{NDF}$ : 9.5/18

# reg\_asym\_atr1l2\_dd\_rms vs Slug



Right In: 1776.879+/-0.501  $\chi^2/\text{NDF}$ : 643576.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

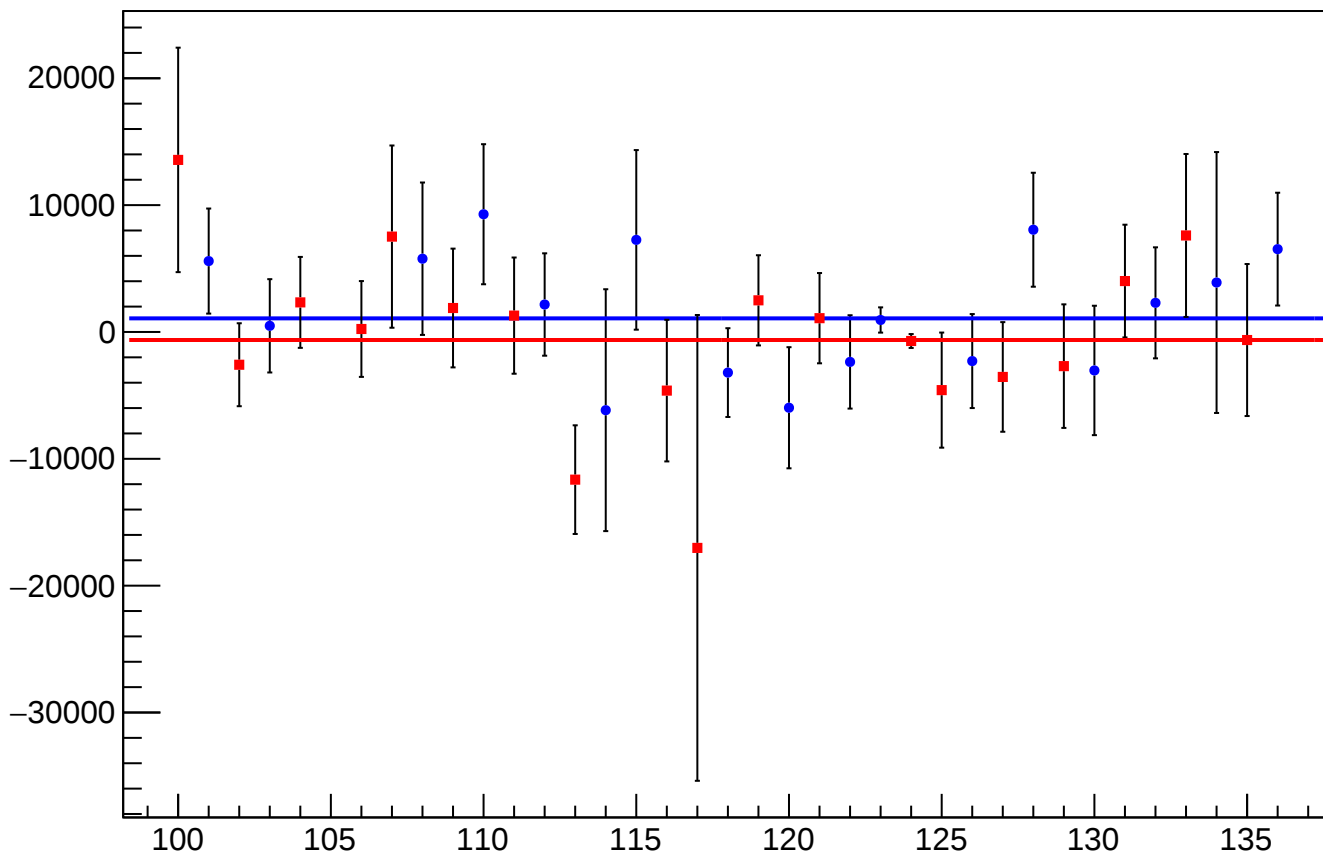
Right Out: 1755.149+/-0.483  $\chi^2/\text{NDF}$ : 300265.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1776.879+/-0.501  $\chi^2/\text{NDF}$ : 643576.8/16

1755.149+/-0.483  $\chi^2/\text{NDF}$ : 300265.1/18

# asym\_atr1l2\_dd\_correction\_mean vs Slug



Right In: 1072.194+/-752.280  $\chi^2/\text{NDF}$ : 15.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

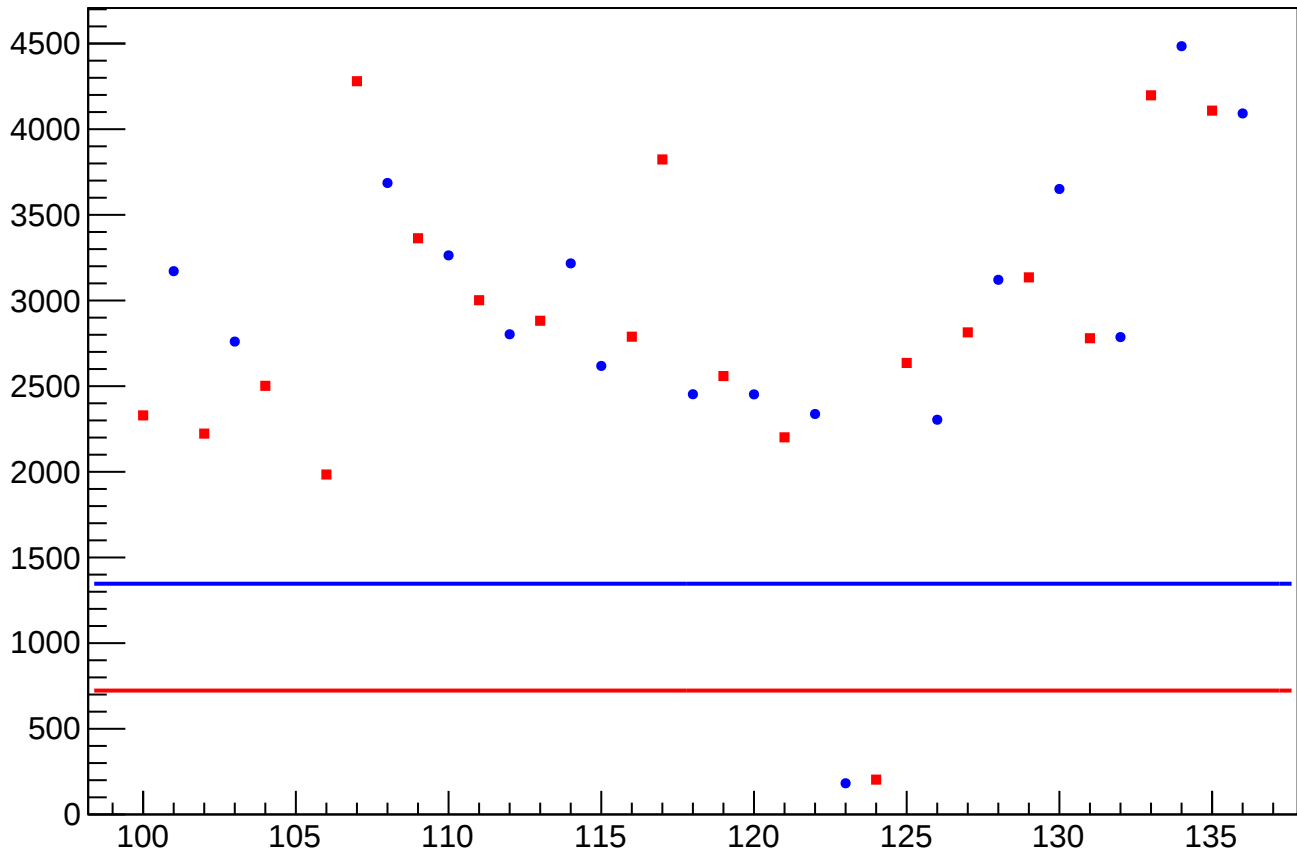
Right Out: -633.159+/-488.540  $\chi^2/\text{NDF}$ : 18.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1072.194+/-752.280  $\chi^2/\text{NDF}$ : 15.6/16

-633.159+/-488.540  $\chi^2/\text{NDF}$ : 18.5/18

# asym\_atr1l2\_dd\_correction\_rms vs Slug



Right In: 1346.836+/-0.532  $\chi^2/\text{NDF}$ : 6839112.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

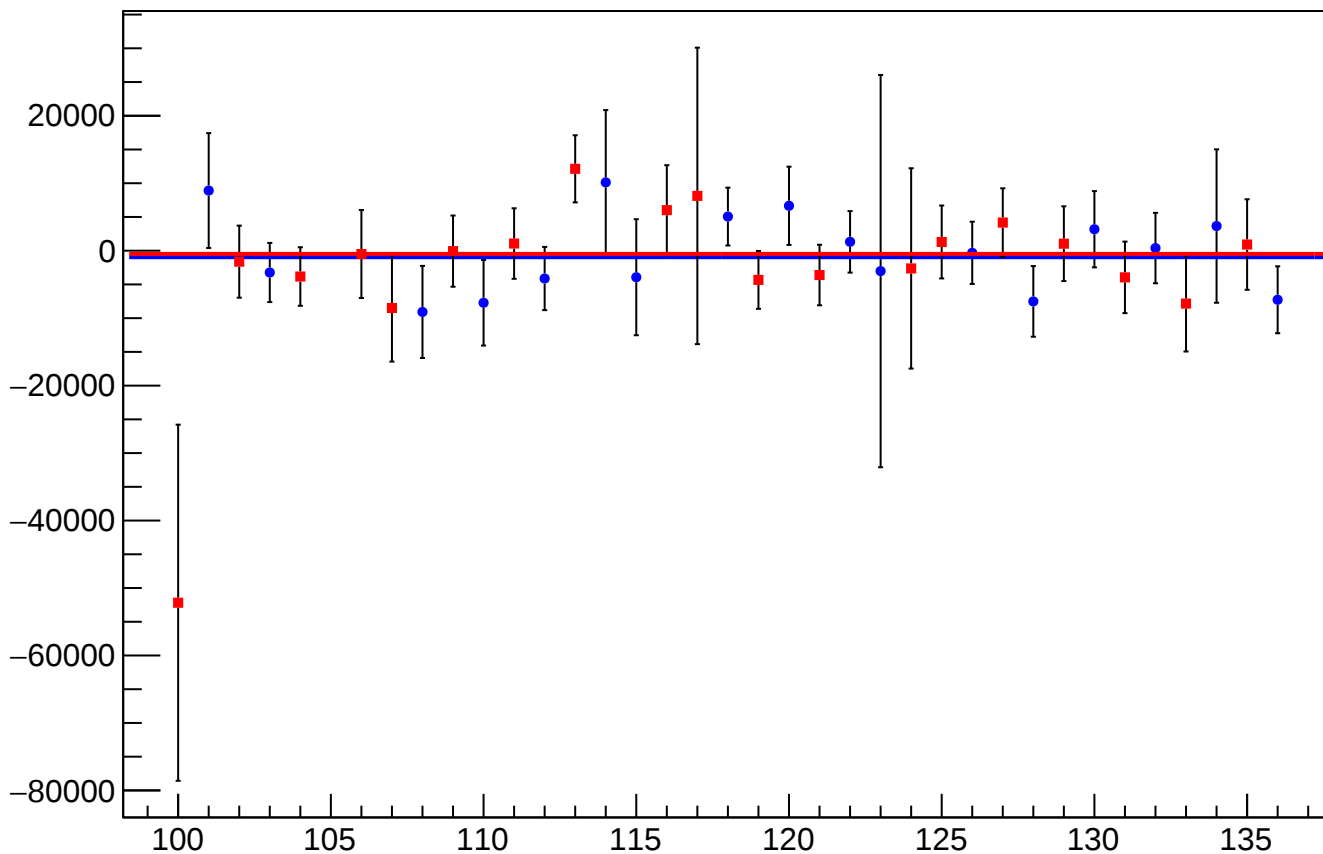
Right Out: 723.133+/-0.345  $\chi^2/\text{NDF}$ : 9306146.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1346.836+/-0.532  $\chi^2/\text{NDF}$ : 6839112.6/16

723.133+/-0.345  $\chi^2/\text{NDF}$ : 9306146.2/18

# asym\_atr1l2\_dd\_mean vs Slug



Right In: -964.151+/-1395.626  $\chi^2/\text{NDF}$ : 13.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

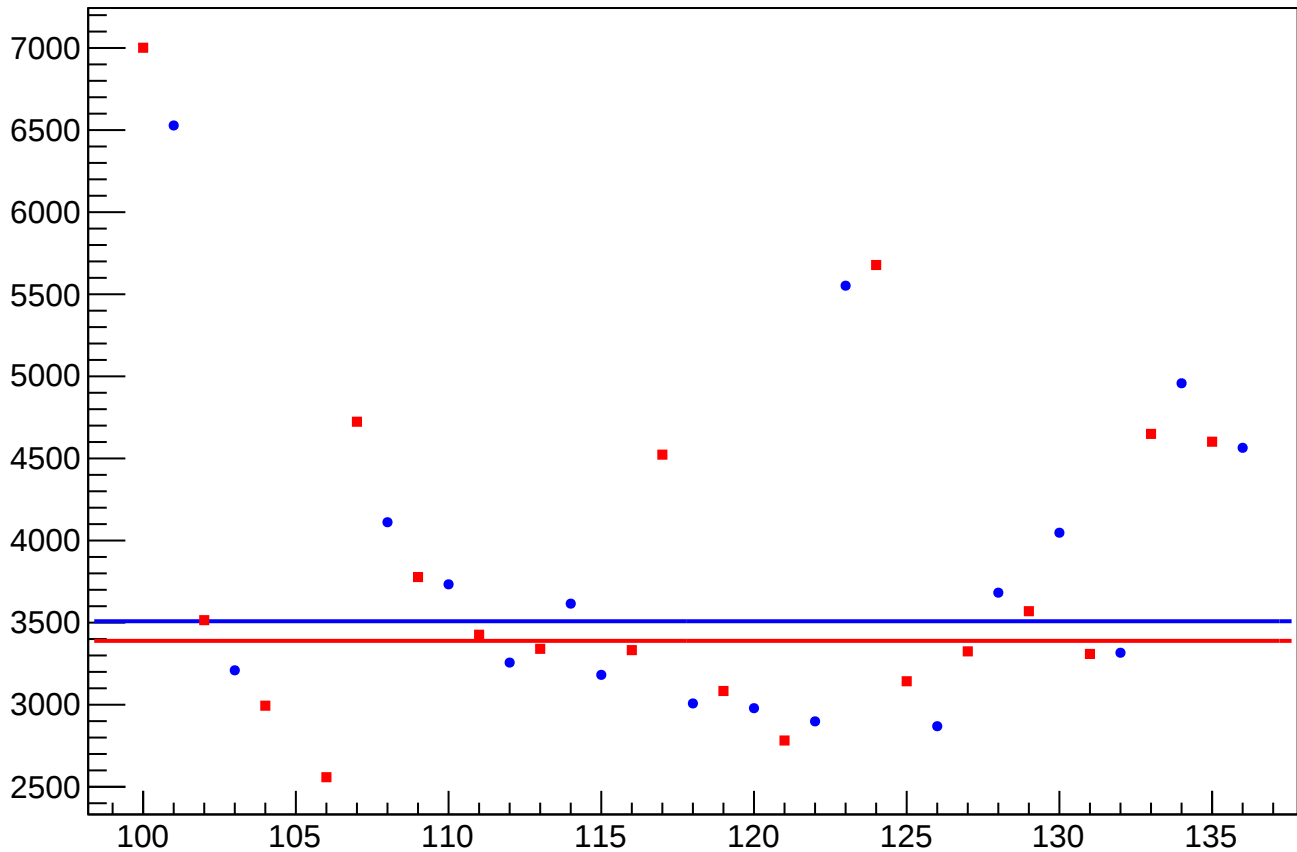
Right Out: -472.948+/-1338.357  $\chi^2/\text{NDF}$ : 17.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-964.151+/-1395.626  $\chi^2/\text{NDF}$ : 13.7/16

-472.948+/-1338.357  $\chi^2/\text{NDF}$ : 17.0/18

# asym\_atr1l2\_dd\_rms vs Slug



Right In: 3508.483+/-0.987  $\chi^2/\text{NDF}$ : 562197.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

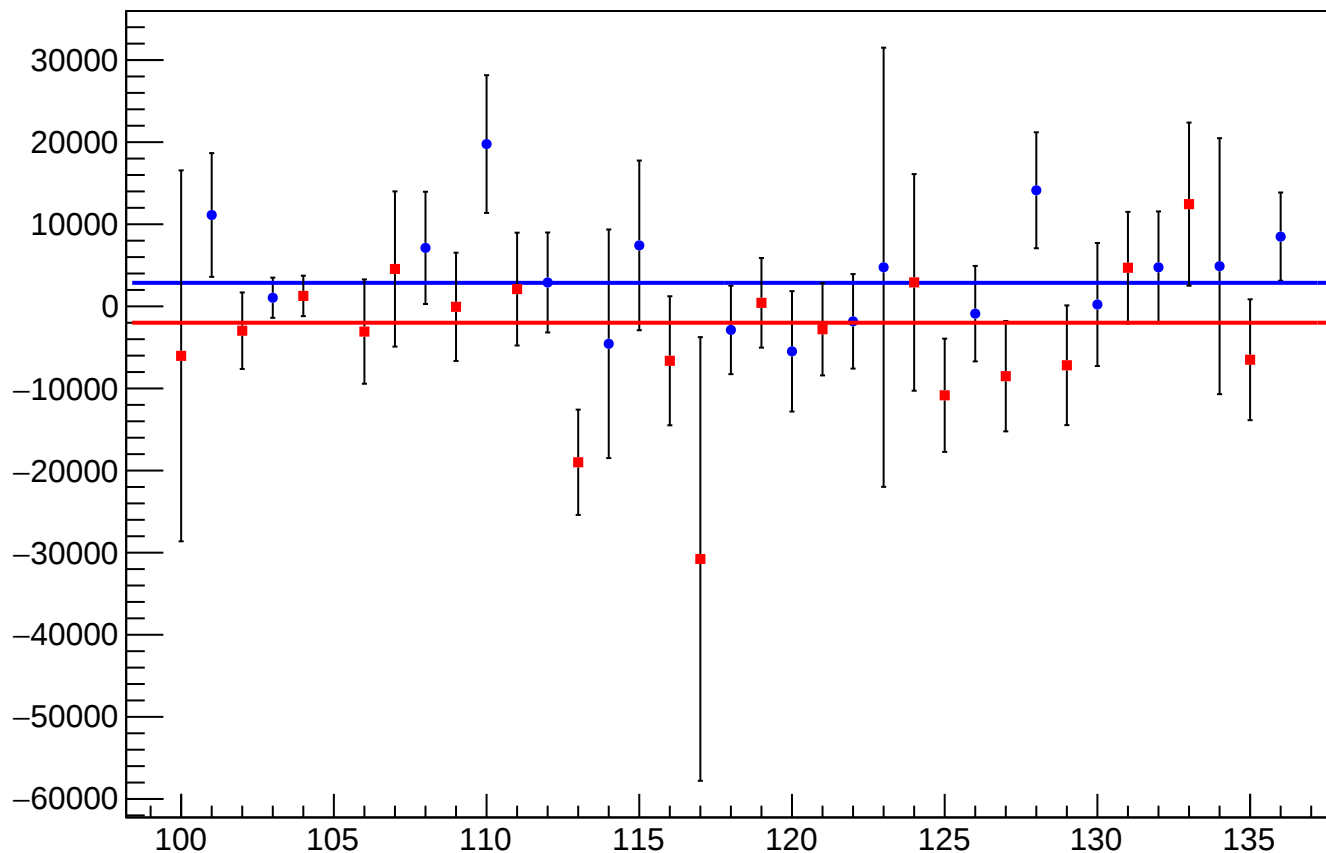
Right Out: 3389.012+/-0.934  $\chi^2/\text{NDF}$ : 410877.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3508.483+/-0.987  $\chi^2/\text{NDF}$ : 562197.7/16

3389.012+/-0.934  $\chi^2/\text{NDF}$ : 410877.1/18

# reg\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2864.770+/-1452.658  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

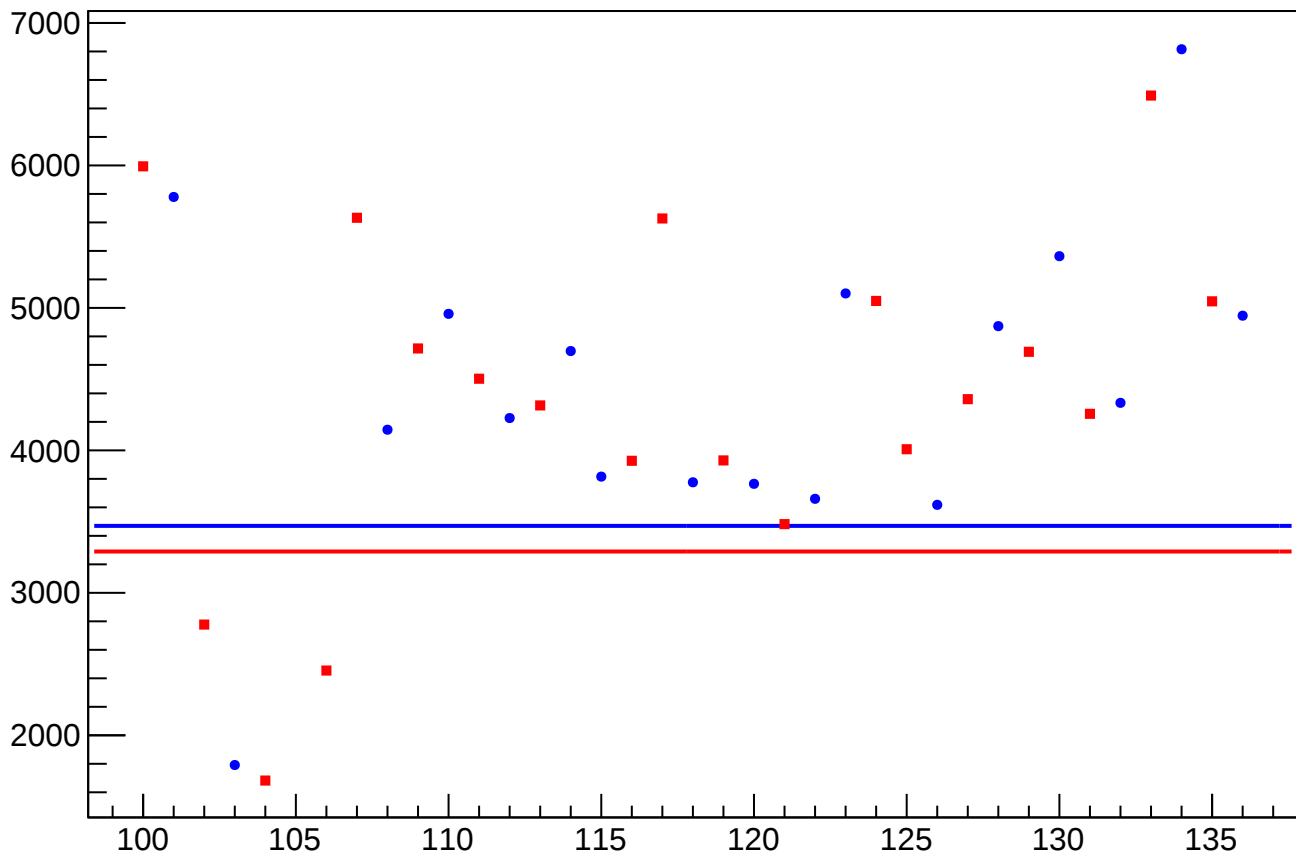
Right Out: -1993.883+/-1389.911  $\chi^2/\text{NDF}$ : 18.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2864.770+/-1452.658  $\chi^2/\text{NDF}$ : 14.1/16

-1993.883+/-1389.911  $\chi^2/\text{NDF}$ : 18.2/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 3470.042+/-1.027  $\chi^2/\text{NDF}$ : 1760860.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

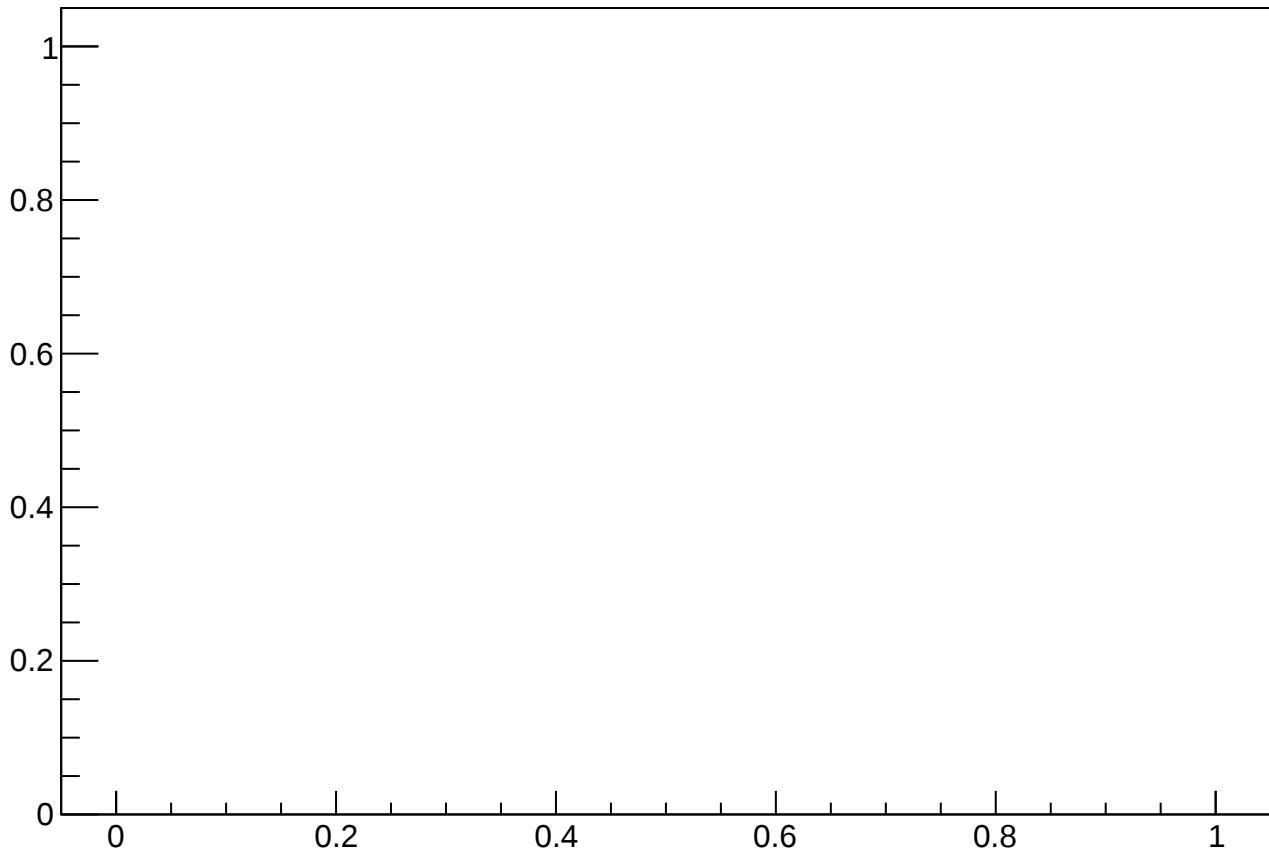
Right Out: 3290.116+/-0.974  $\chi^2/\text{NDF}$ : 1882675.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3470.042+/-1.027  $\chi^2/\text{NDF}$ : 1760860.6/16

3290.116+/-0.974  $\chi^2/\text{NDF}$ : 1882675.4/18

asym\_atl\_avg\_atr\_avg\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

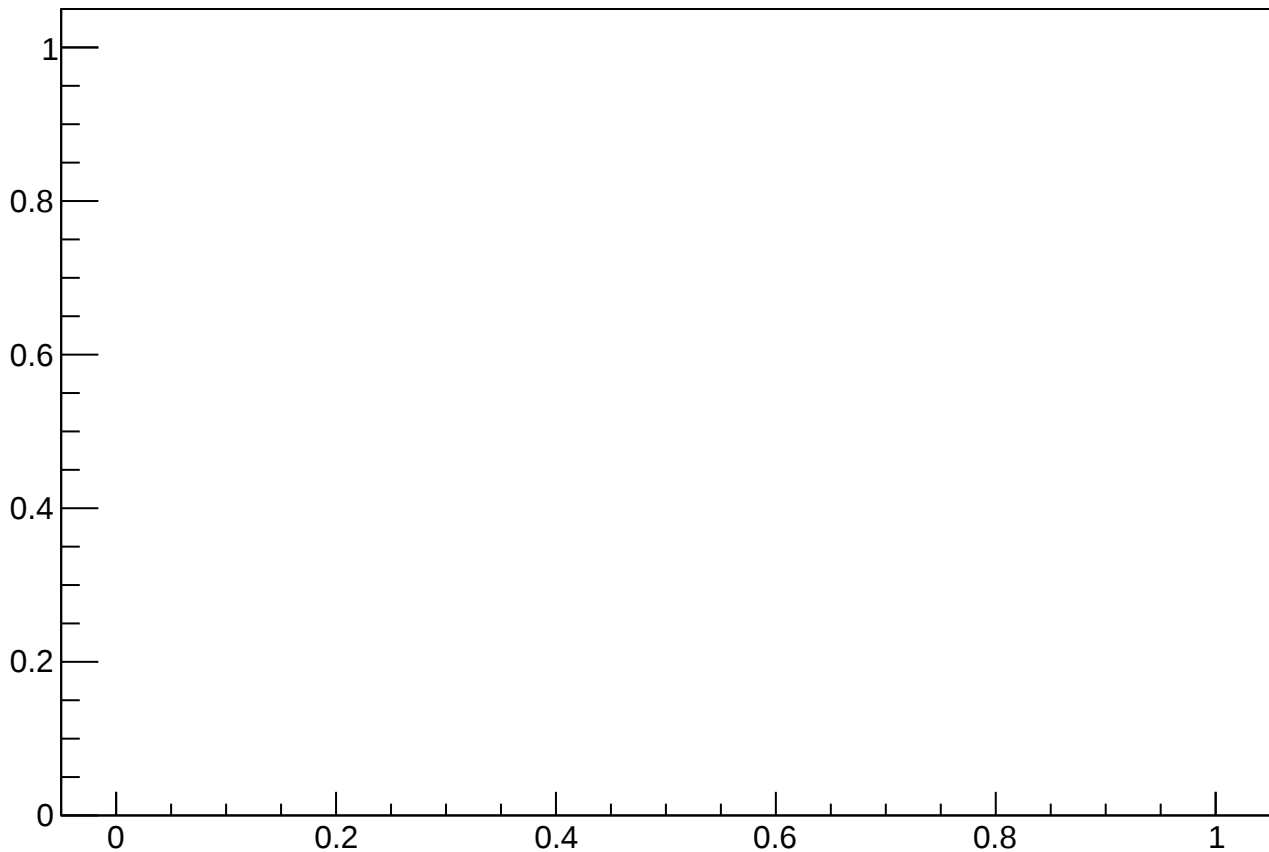
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

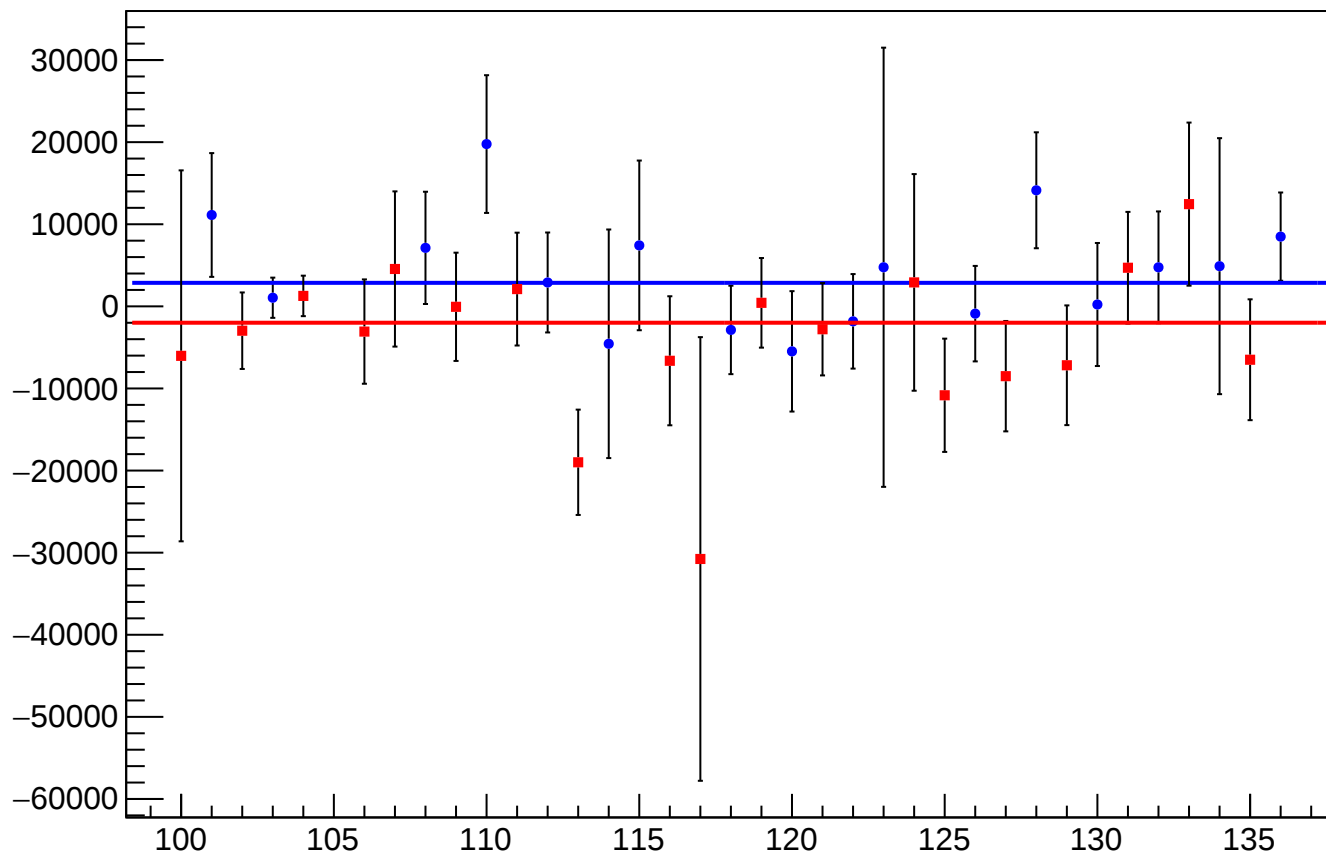
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 2864.770+/-1452.658     $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

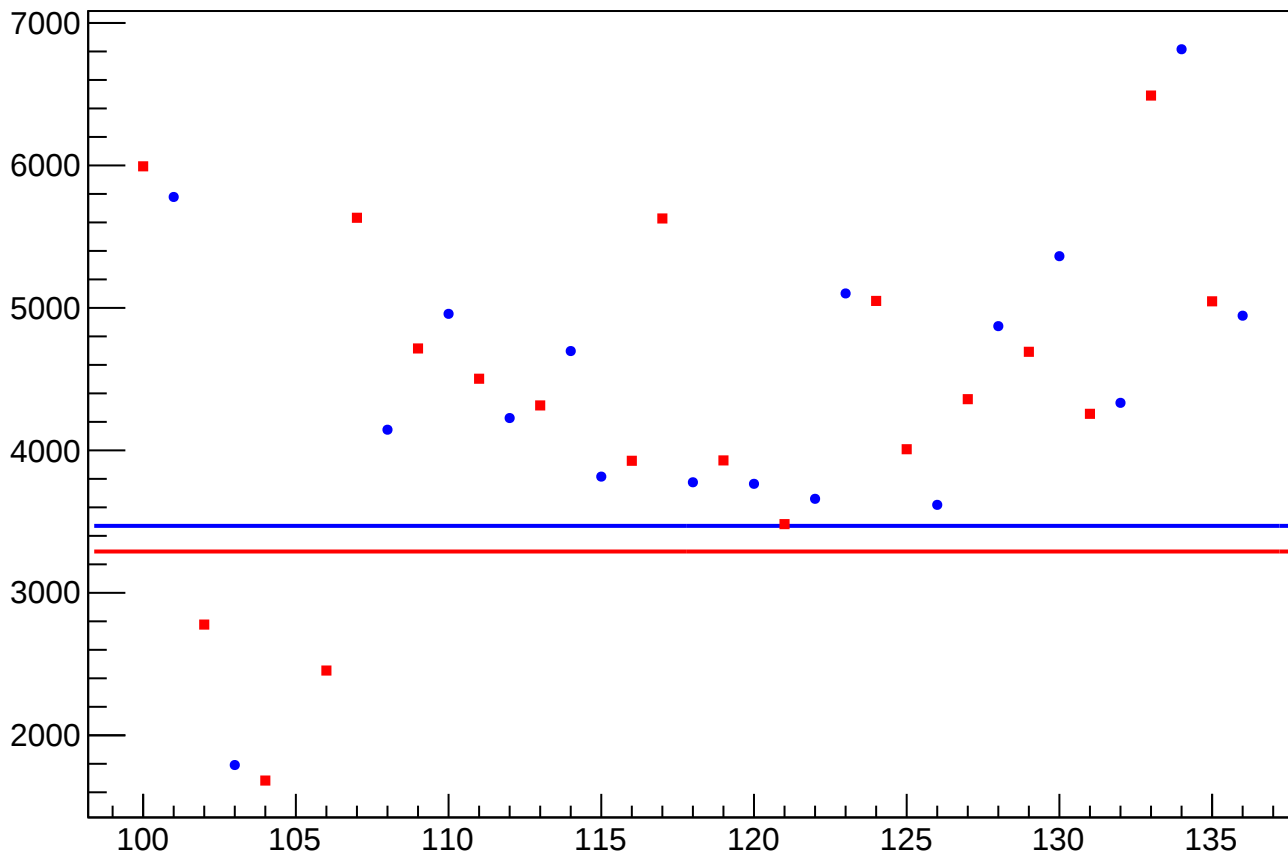
Right Out: -1993.883+/-1389.911     $\chi^2/\text{NDF}$ : 18.2/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

2864.770+/-1452.658     $\chi^2/\text{NDF}$ : 14.1/16

-1993.883+/-1389.911     $\chi^2/\text{NDF}$ : 18.2/18

asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 3470.042+/-1.027  $\chi^2/\text{NDF}$ : 1760860.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

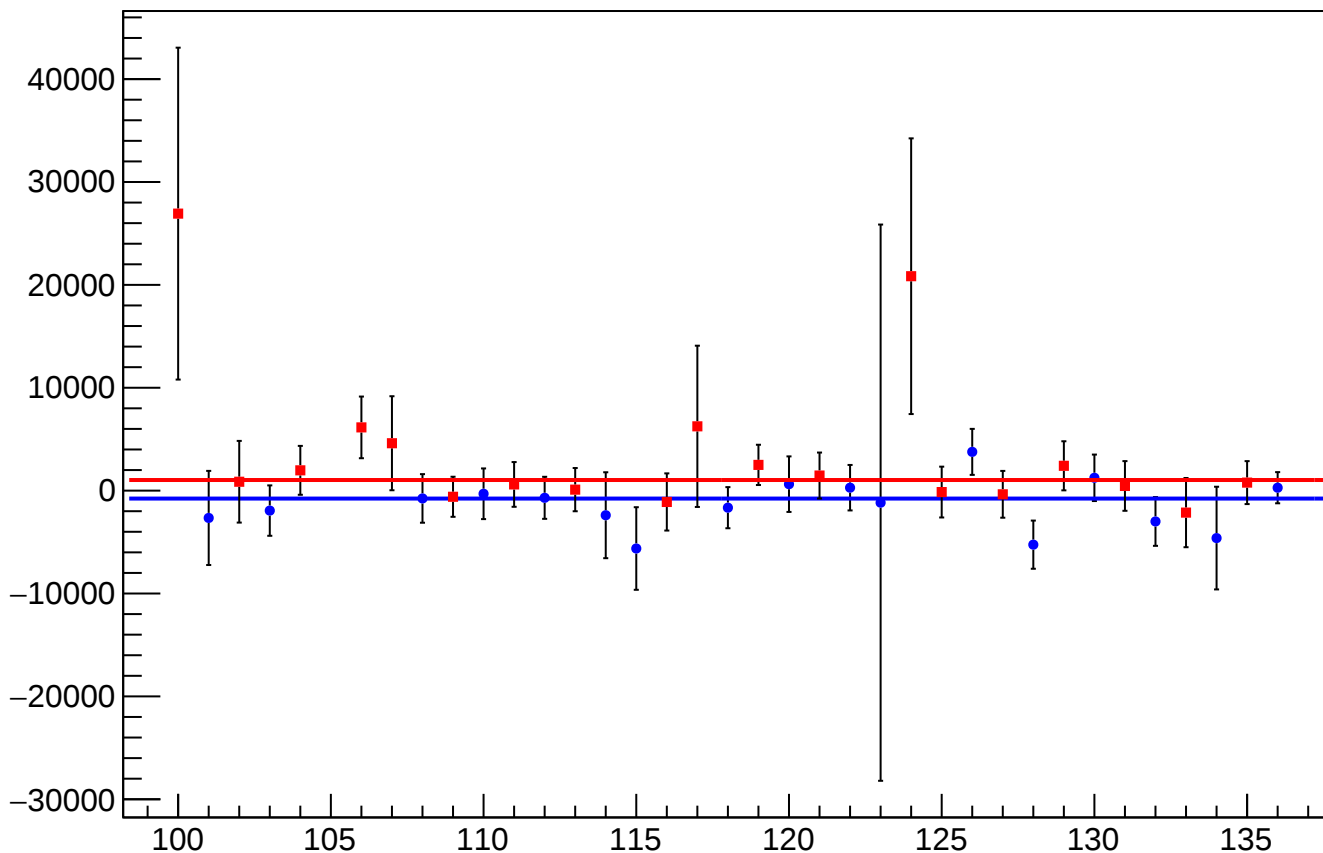
3470.042+/-1.027  $\chi^2/\text{NDF}$ : 1760860.6/16

Right Out: 3290.116+/-0.974  $\chi^2/\text{NDF}$ : 1882675.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3290.116+/-0.974  $\chi^2/\text{NDF}$ : 1882675.4/18

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -771.153+/-603.689  $\chi^2/\text{NDF}$ : 13.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

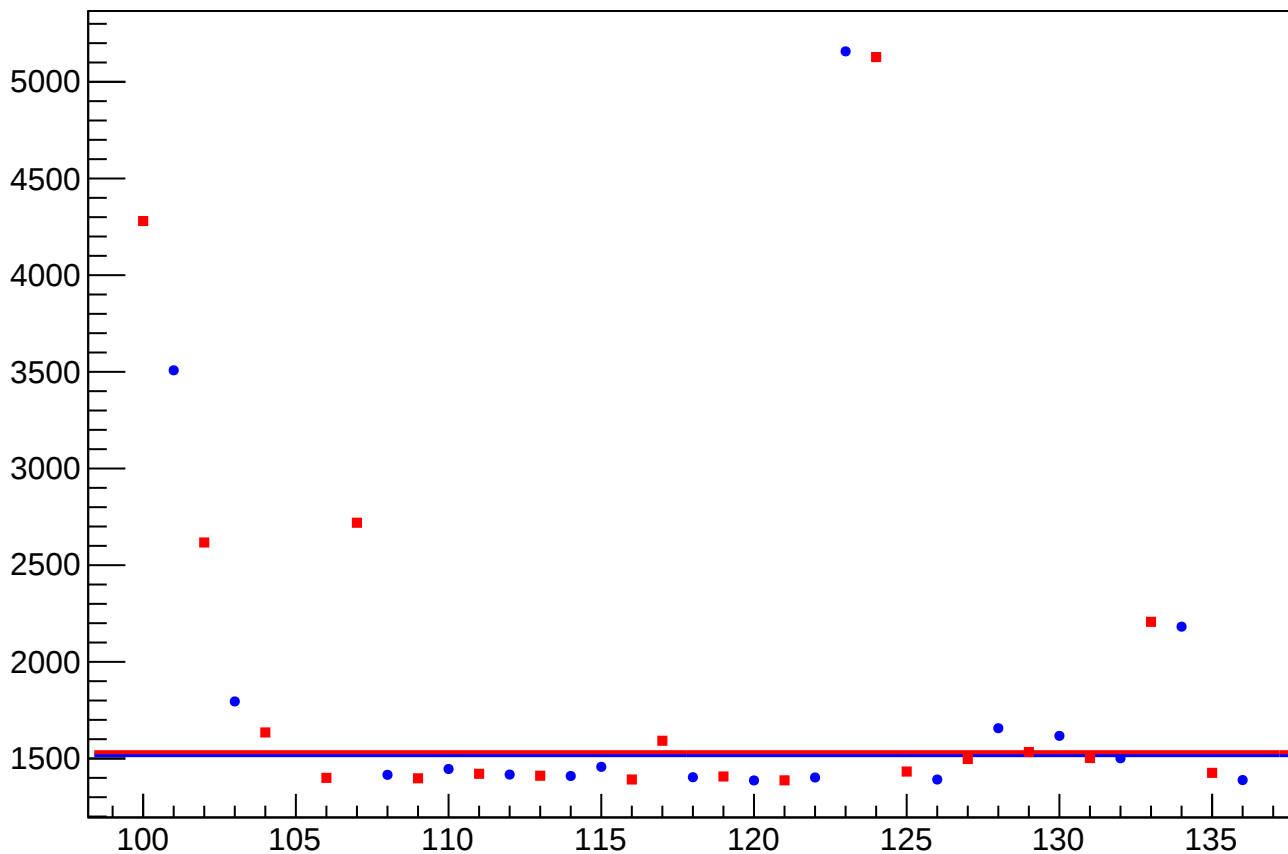
Right Out: 1031.900+/-604.061  $\chi^2/\text{NDF}$ : 12.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-771.153+/-603.689  $\chi^2/\text{NDF}$ : 13.3/16

1031.900+/-604.061  $\chi^2/\text{NDF}$ : 12.9/18

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1517.334+/-0.427  $\chi^2/\text{NDF}$ : 536662.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

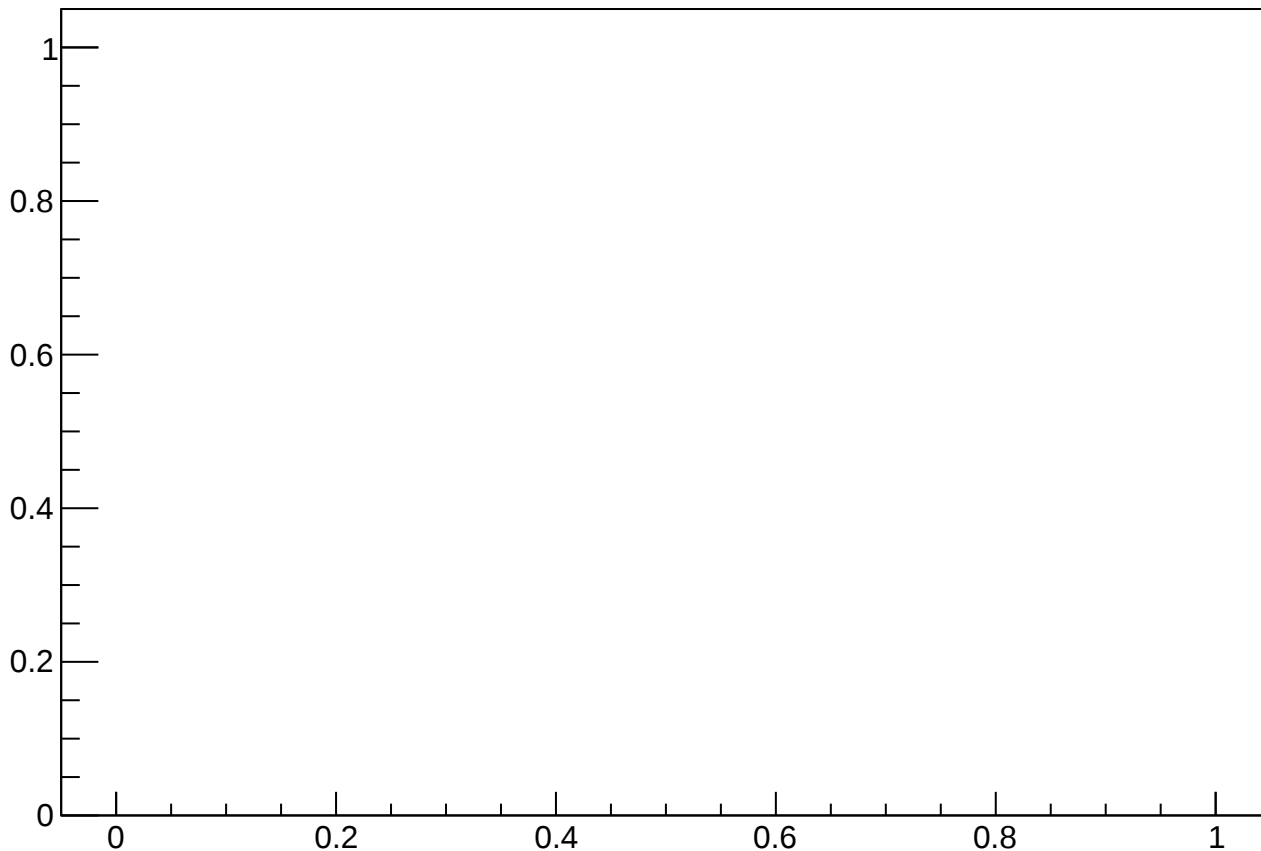
1517.334+/-0.427  $\chi^2/\text{NDF}$ : 536662.7/16

Right Out: 1532.885+/-0.427  $\chi^2/\text{NDF}$ : 627091.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1532.885+/-0.427  $\chi^2/\text{NDF}$ : 627091.9/18

asym\_atl\_avg\_atr\_avg\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

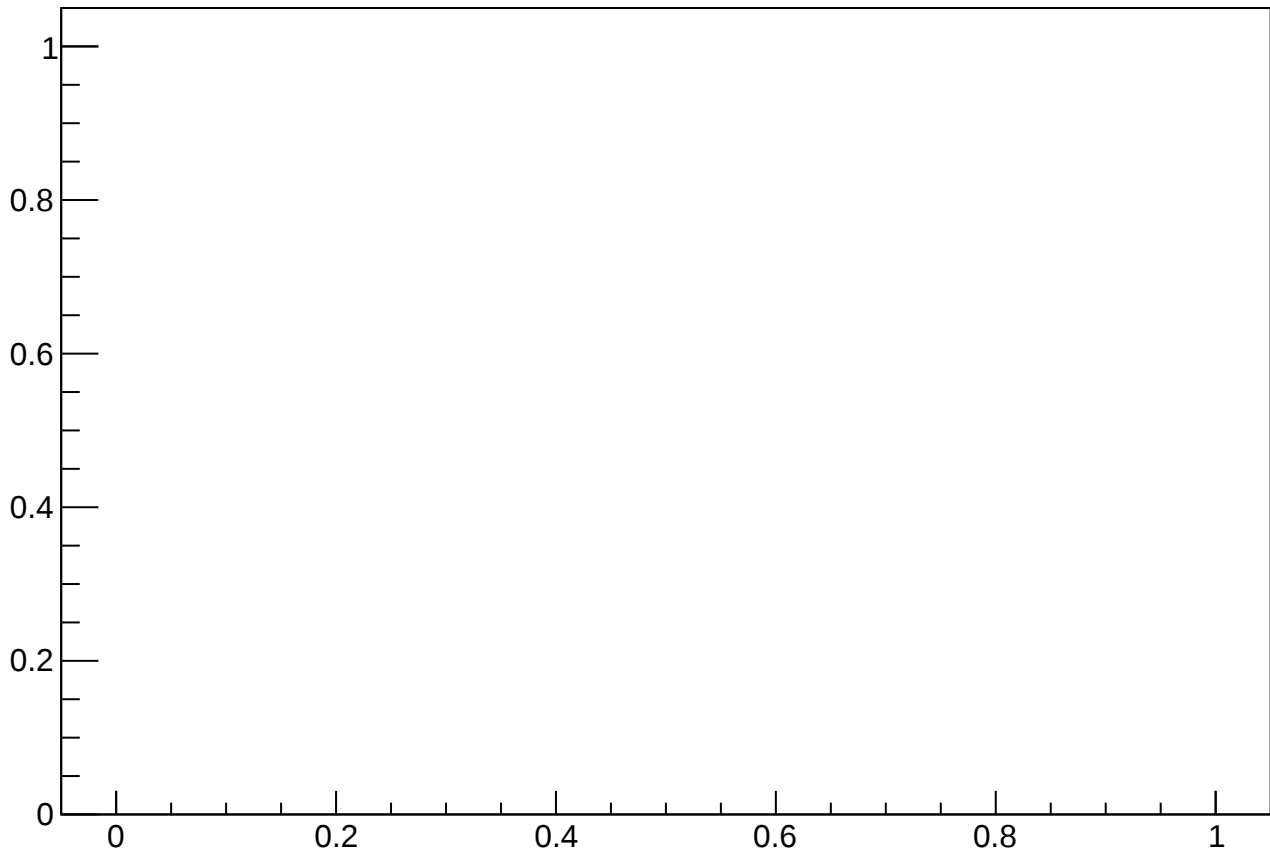
Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

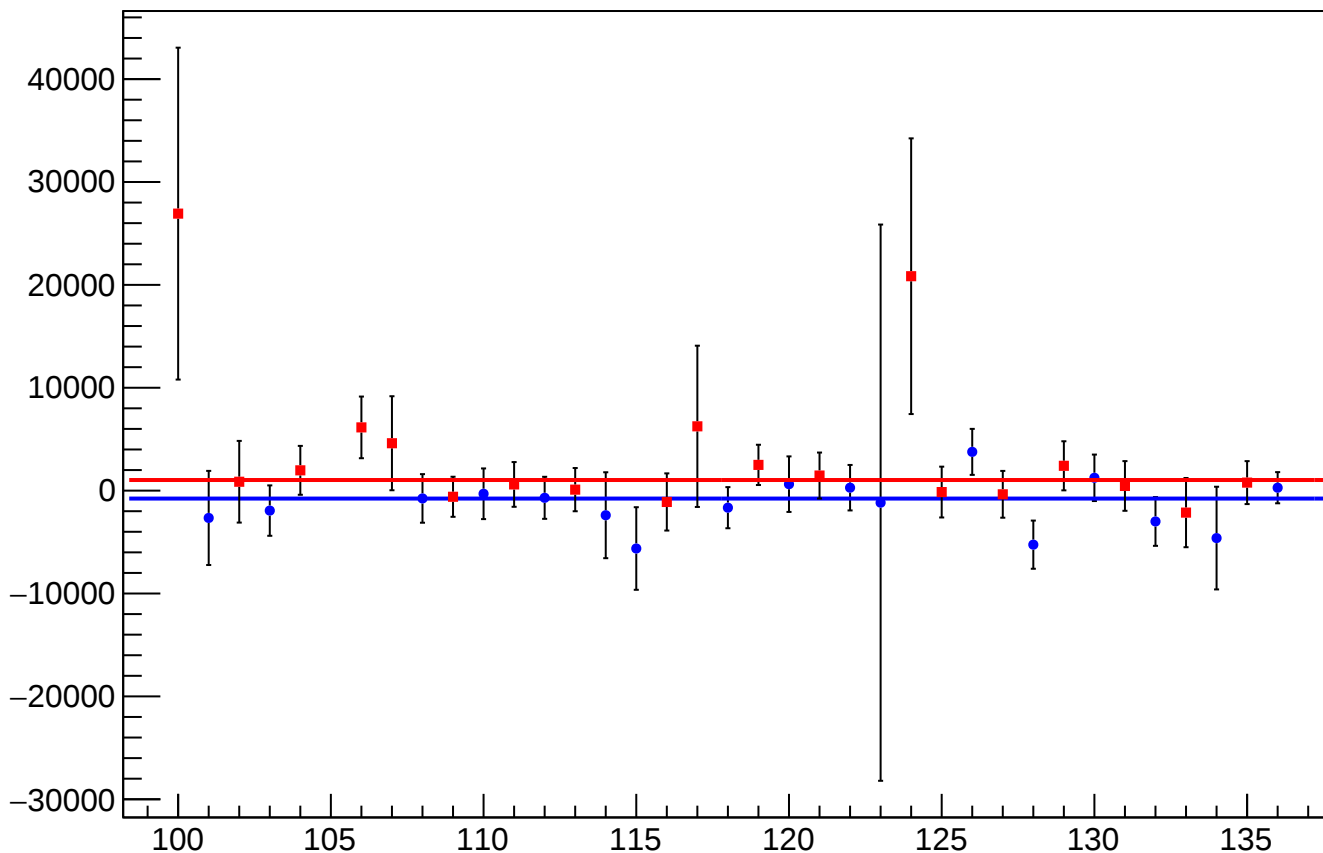
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: -771.153+/-603.689  $\chi^2/\text{NDF}$ : 13.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

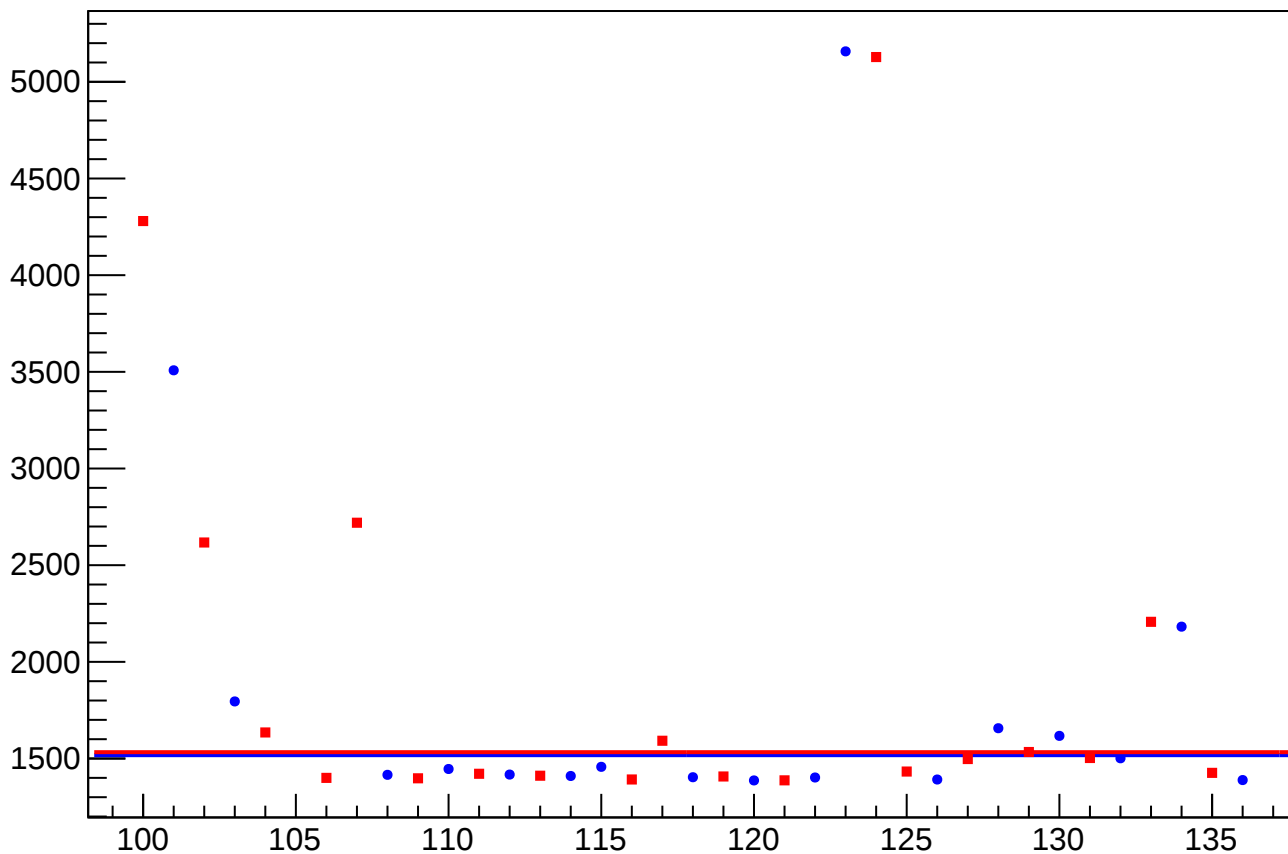
Right Out: 1031.900+/-604.061  $\chi^2/\text{NDF}$ : 12.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-771.153+/-603.689  $\chi^2/\text{NDF}$ : 13.3/16

1031.900+/-604.061  $\chi^2/\text{NDF}$ : 12.9/18

# asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 1517.334+/-0.427  $\chi^2/\text{NDF}$ : 536662.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

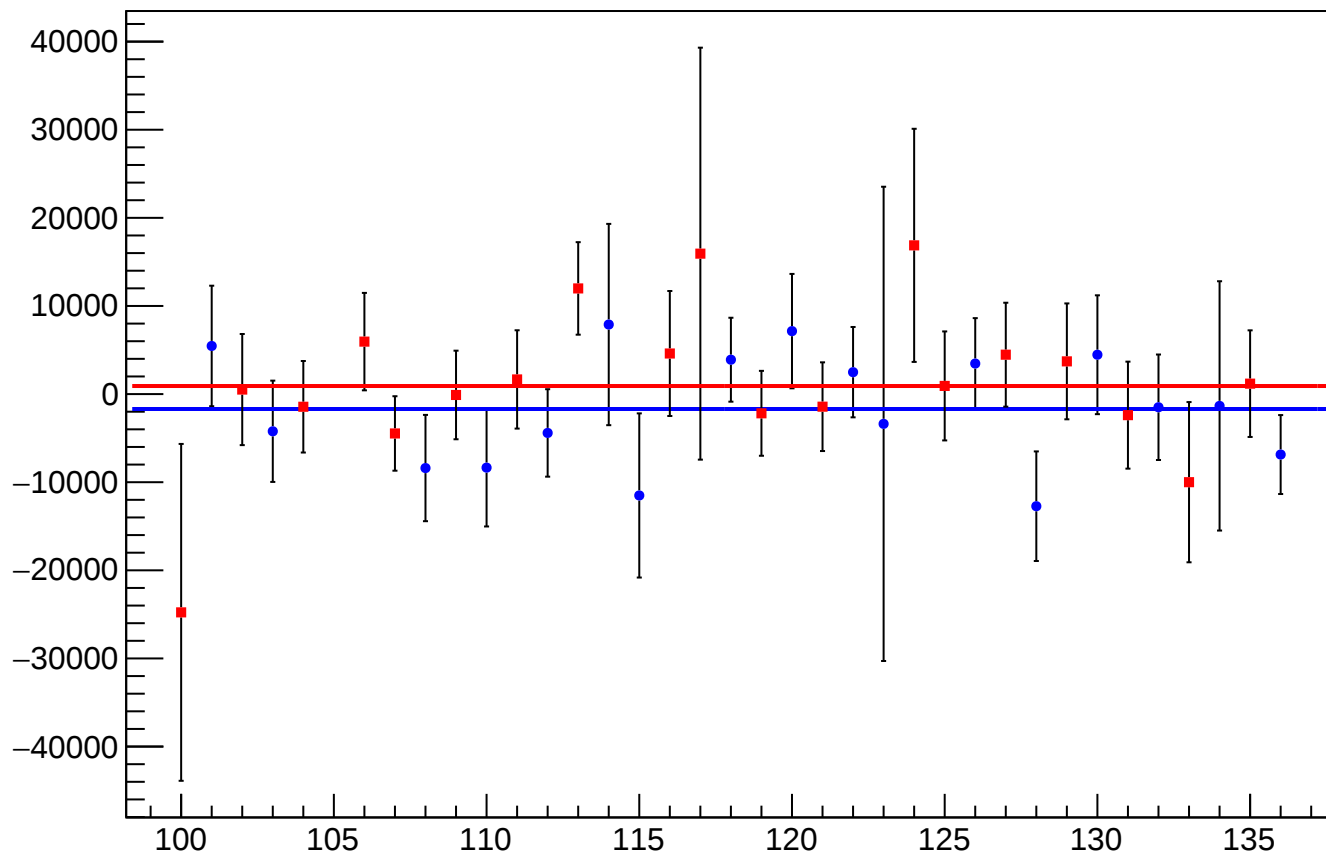
Right Out: 1532.885+/-0.427  $\chi^2/\text{NDF}$ : 627091.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1517.334+/-0.427  $\chi^2/\text{NDF}$ : 536662.7/16

1532.885+/-0.427  $\chi^2/\text{NDF}$ : 627091.9/18

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1692.604+/-1512.935  $\chi^2$ /NDF: 15.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

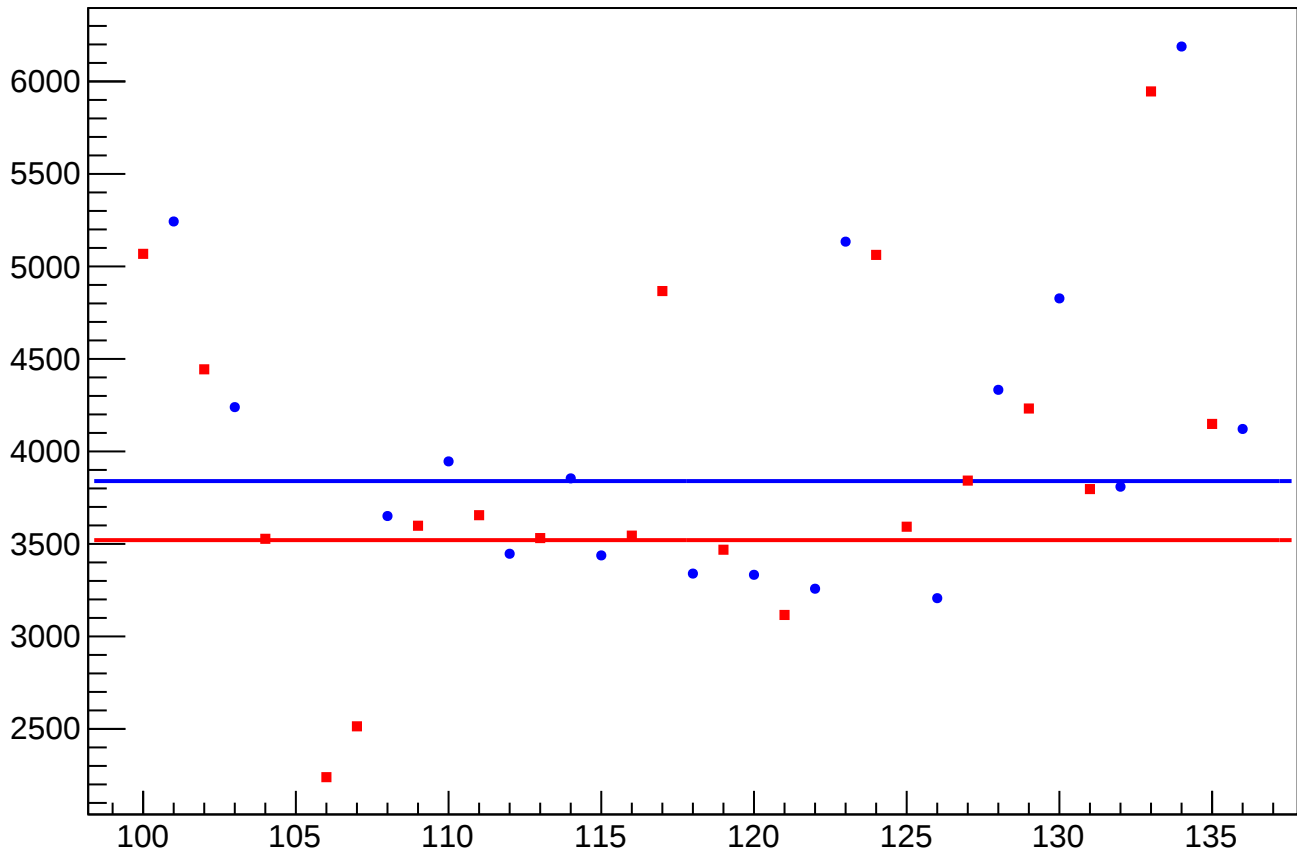
Right Out: 915.907+/-1391.773  $\chi^2$ /NDF: 14.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1692.604+/-1512.935  $\chi^2$ /NDF: 15.8/16

915.907+/-1391.773  $\chi^2$ /NDF: 14.0/18

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 3839.751+/-1.070  $\chi^2/\text{NDF}$ : 325959.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

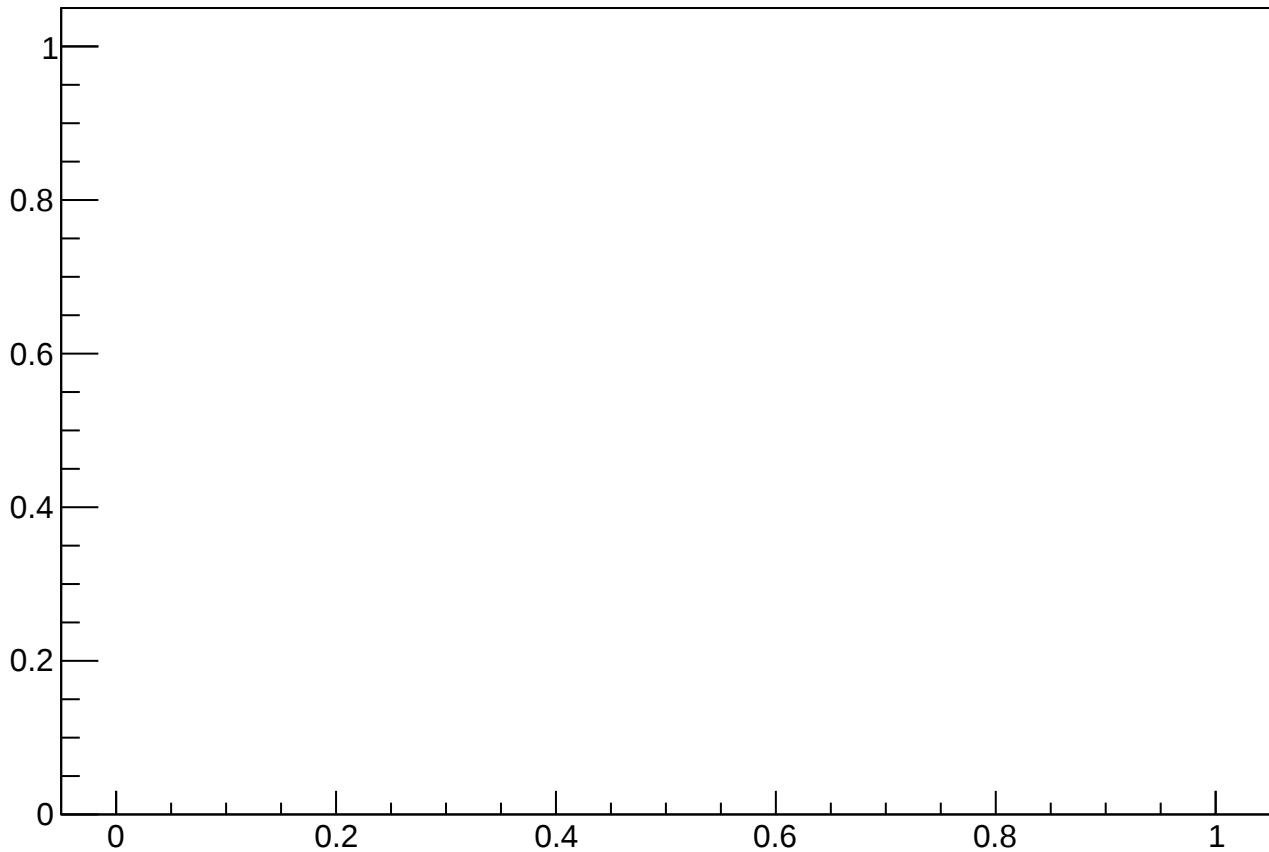
3839.751+/-1.070  $\chi^2/\text{NDF}$ : 325959.2/16

Right Out: 3520.545+/-0.975  $\chi^2/\text{NDF}$ : 555032.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3520.545+/-0.975  $\chi^2/\text{NDF}$ : 555032.6/18

asym\_atl\_dd\_atr\_dd\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

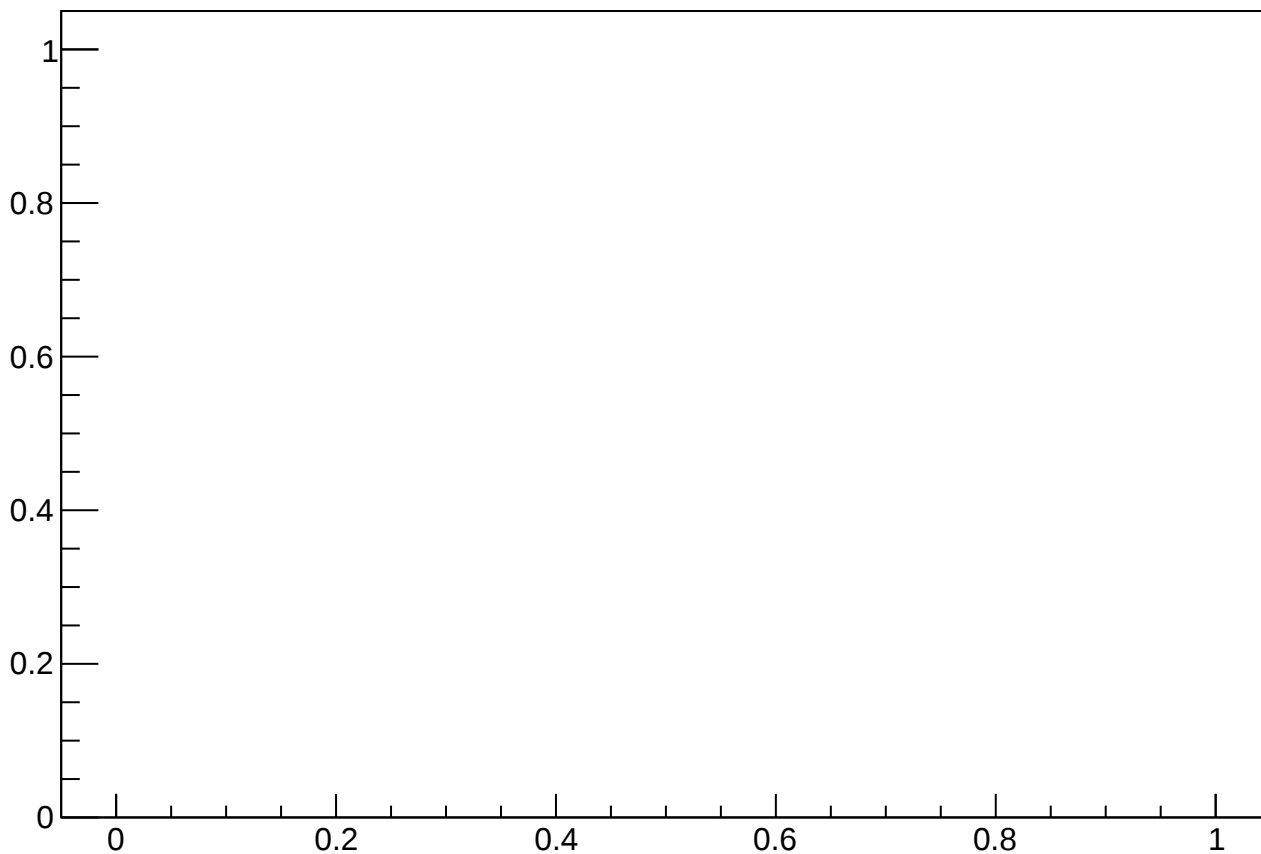
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

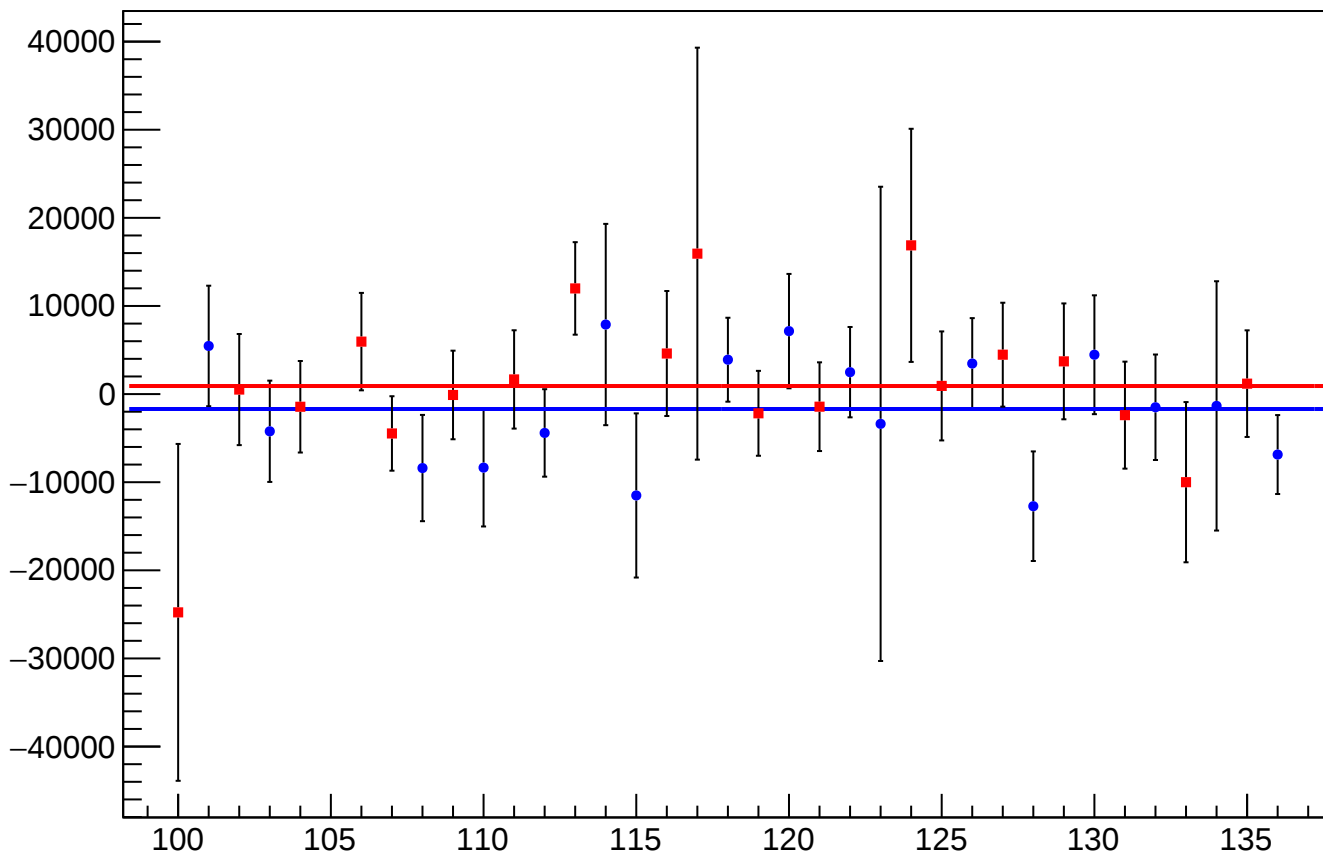
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In: -1692.604+/-1512.935  $\chi^2$ /NDF: 15.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

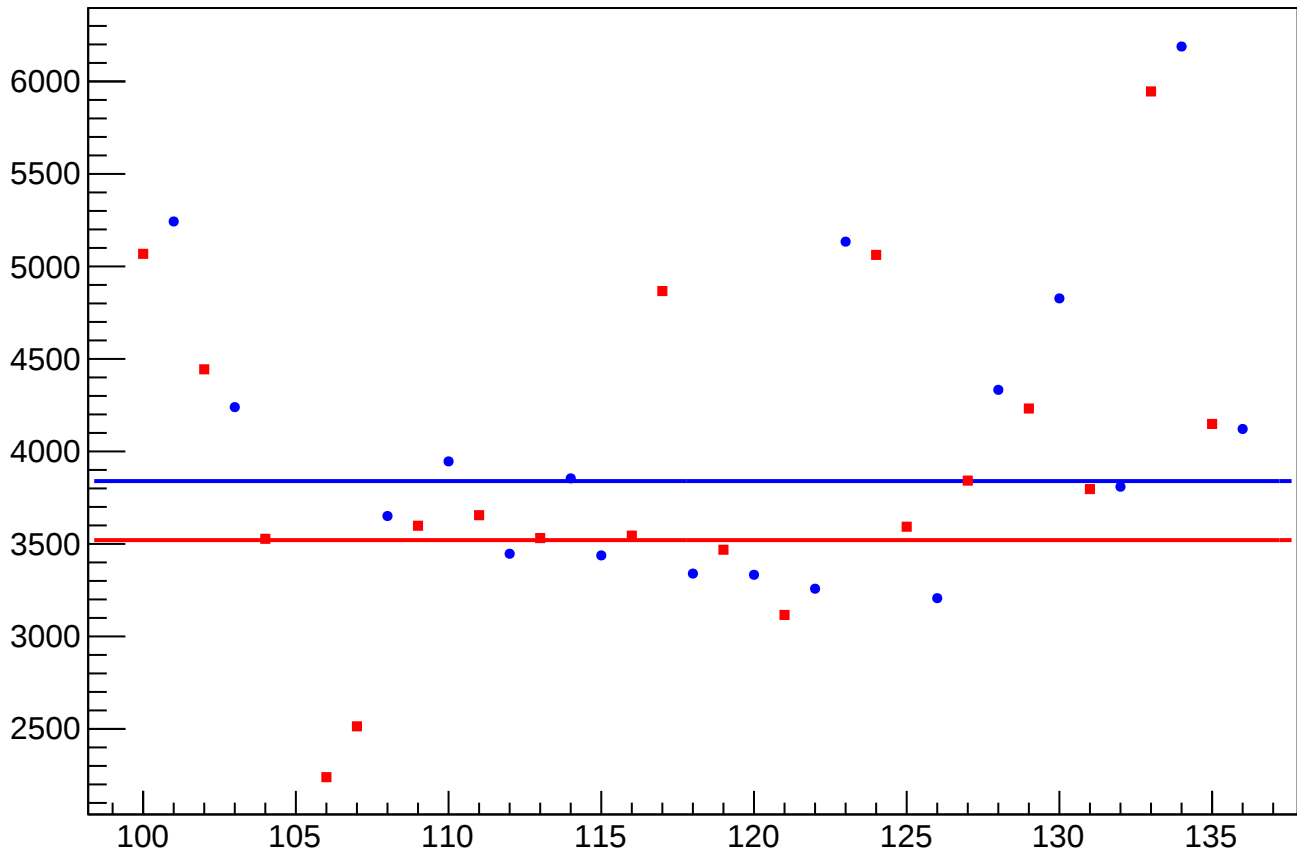
Right Out: 915.907+/-1391.773  $\chi^2$ /NDF: 14.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1692.604+/-1512.935  $\chi^2$ /NDF: 15.8/16

915.907+/-1391.773  $\chi^2$ /NDF: 14.0/18

# asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 3839.751+/-1.070  $\chi^2/\text{NDF}$ : 325959.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

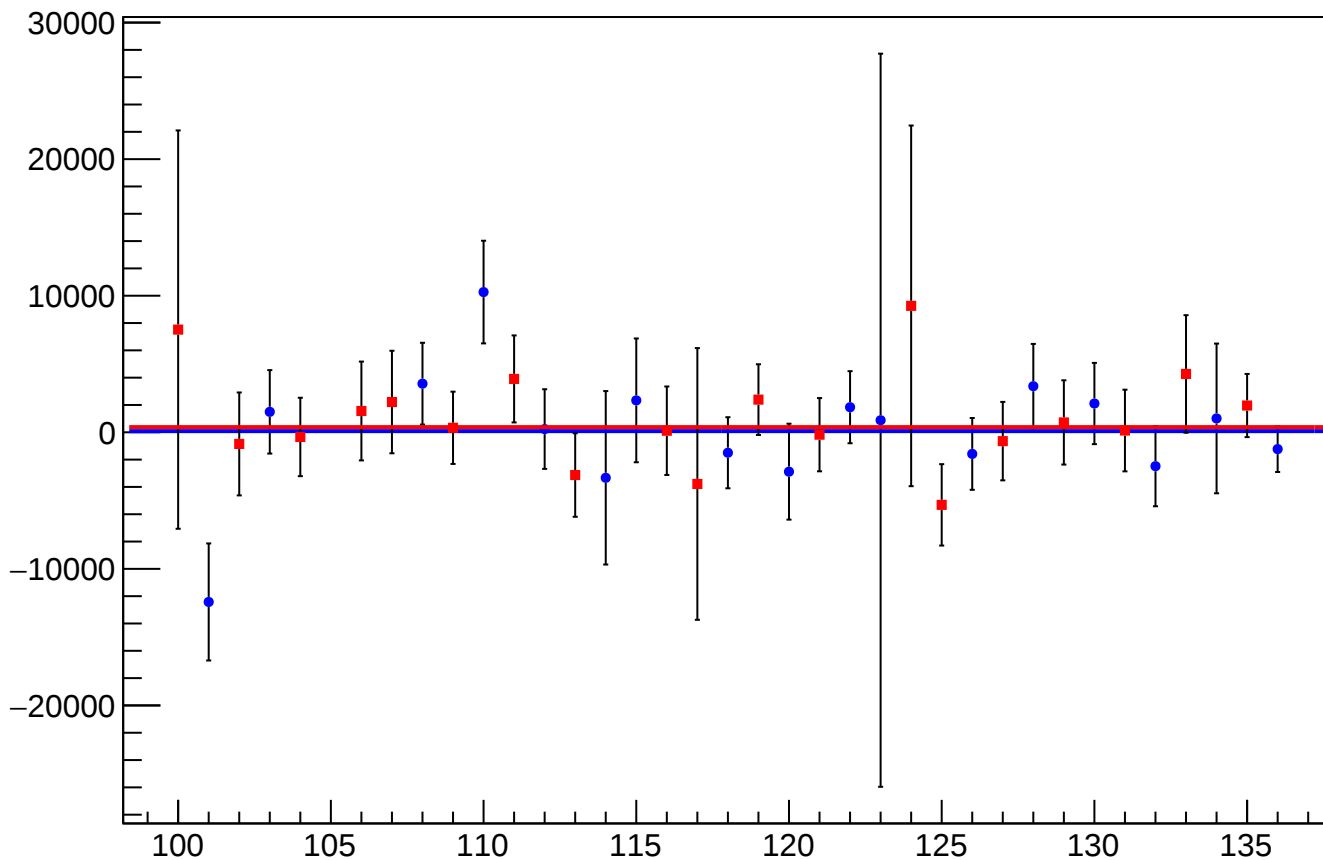
Right Out: 3520.545+/-0.975  $\chi^2/\text{NDF}$ : 555032.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3839.751+/-1.070  $\chi^2/\text{NDF}$ : 325959.2/16

3520.545+/-0.975  $\chi^2/\text{NDF}$ : 555032.6/18

reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 83.860+/-750.549  $\chi^2/\text{NDF}$ : 22.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

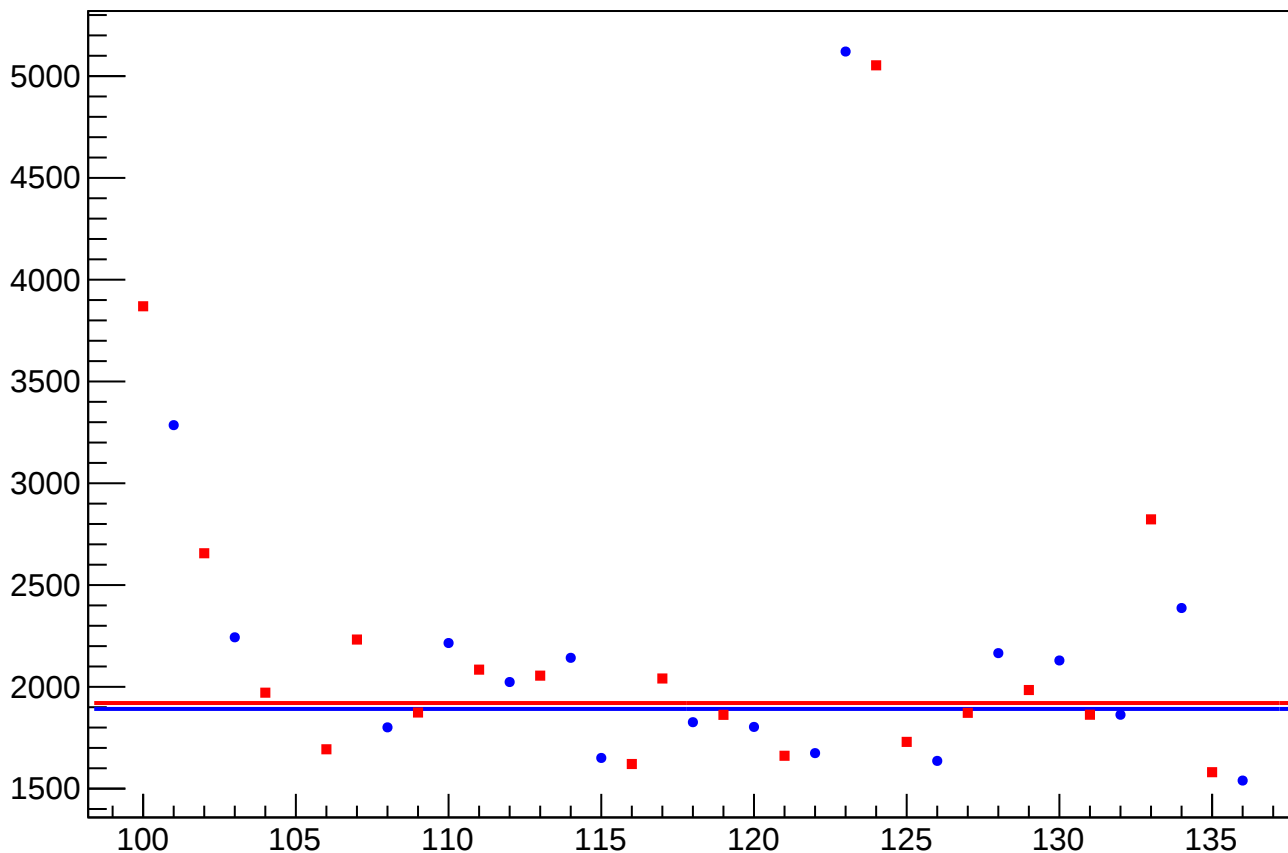
Right Out: 379.519+/-748.857  $\chi^2/\text{NDF}$ : 9.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

83.860+/-750.549  $\chi^2/\text{NDF}$ : 22.9/16

379.519+/-748.857  $\chi^2/\text{NDF}$ : 9.7/18

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1891.492+/-0.531  $\chi^2$ /NDF: 464497.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

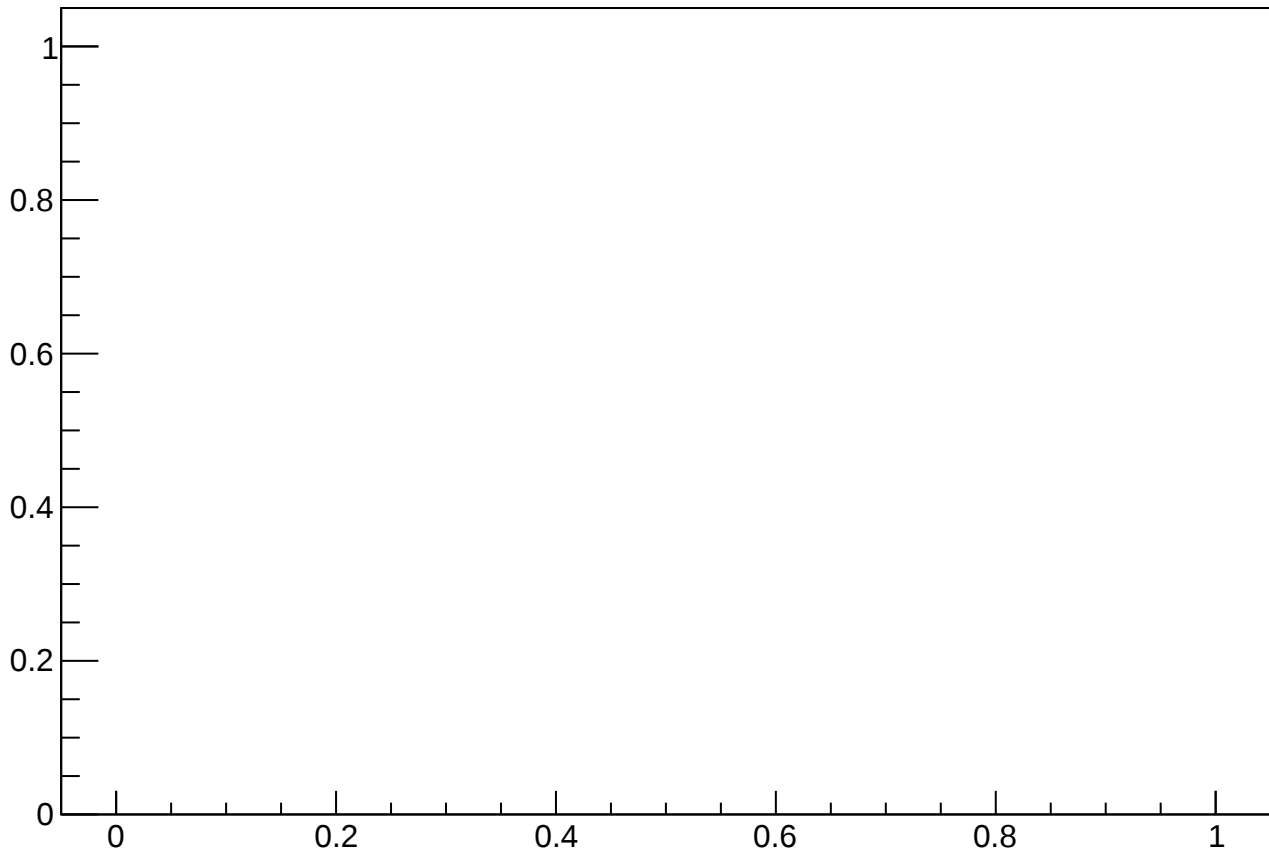
1891.492+/-0.531  $\chi^2$ /NDF: 464497.5/16

Right Out: 1920.481+/-0.530  $\chi^2$ /NDF: 435130.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1920.481+/-0.530  $\chi^2$ /NDF: 435130.1/18

asym\_atl\_dd\_atr\_dd\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

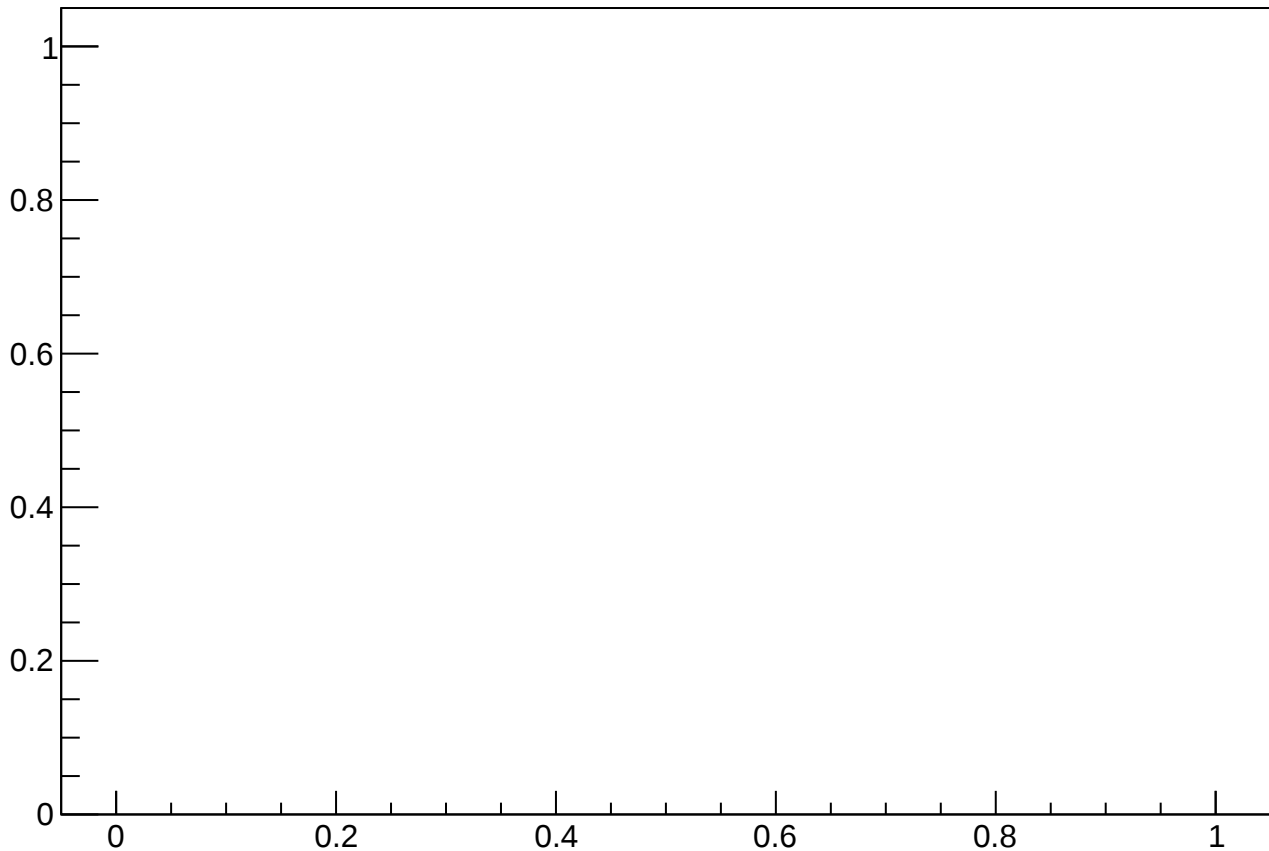
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

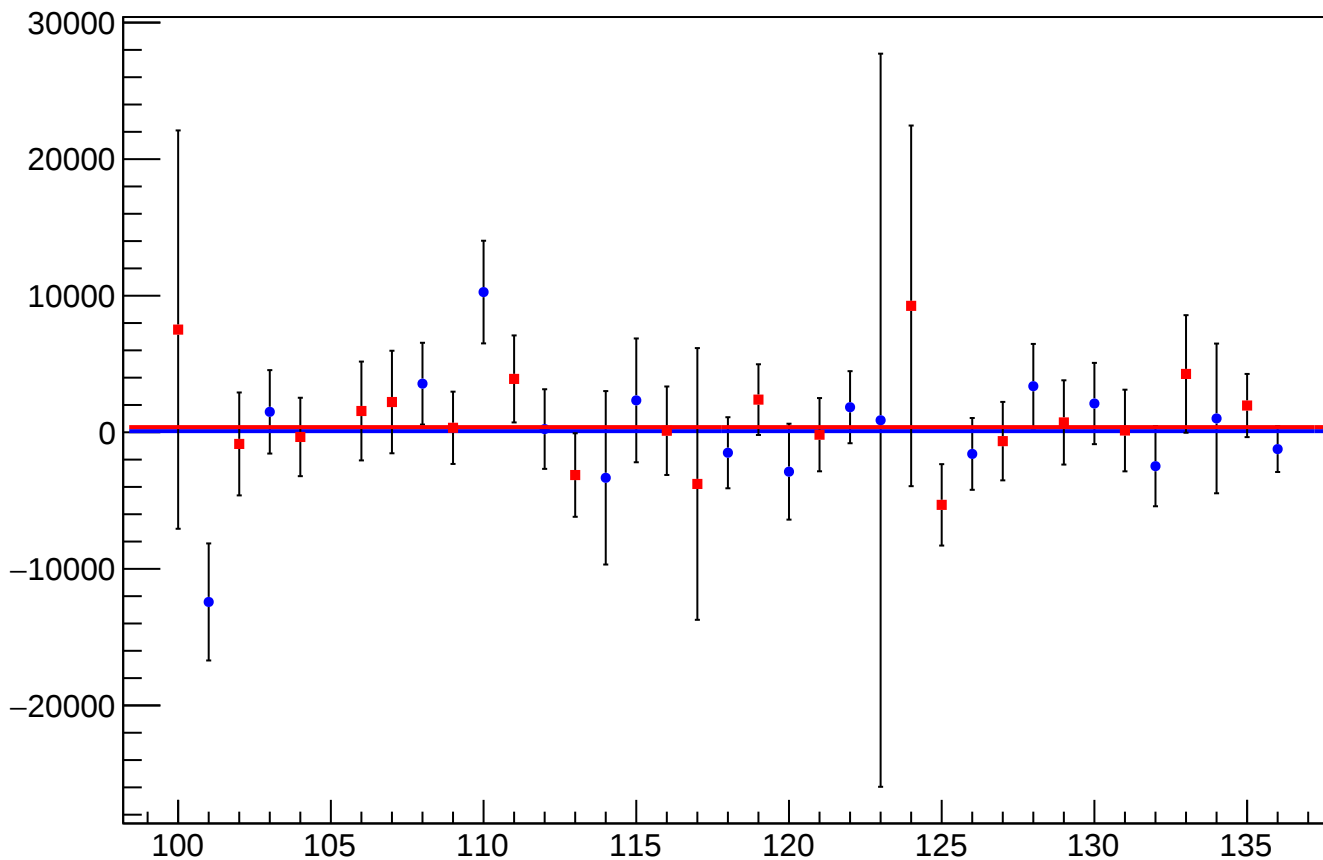
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 83.860+/-750.549  $\chi^2/\text{NDF}$ : 22.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

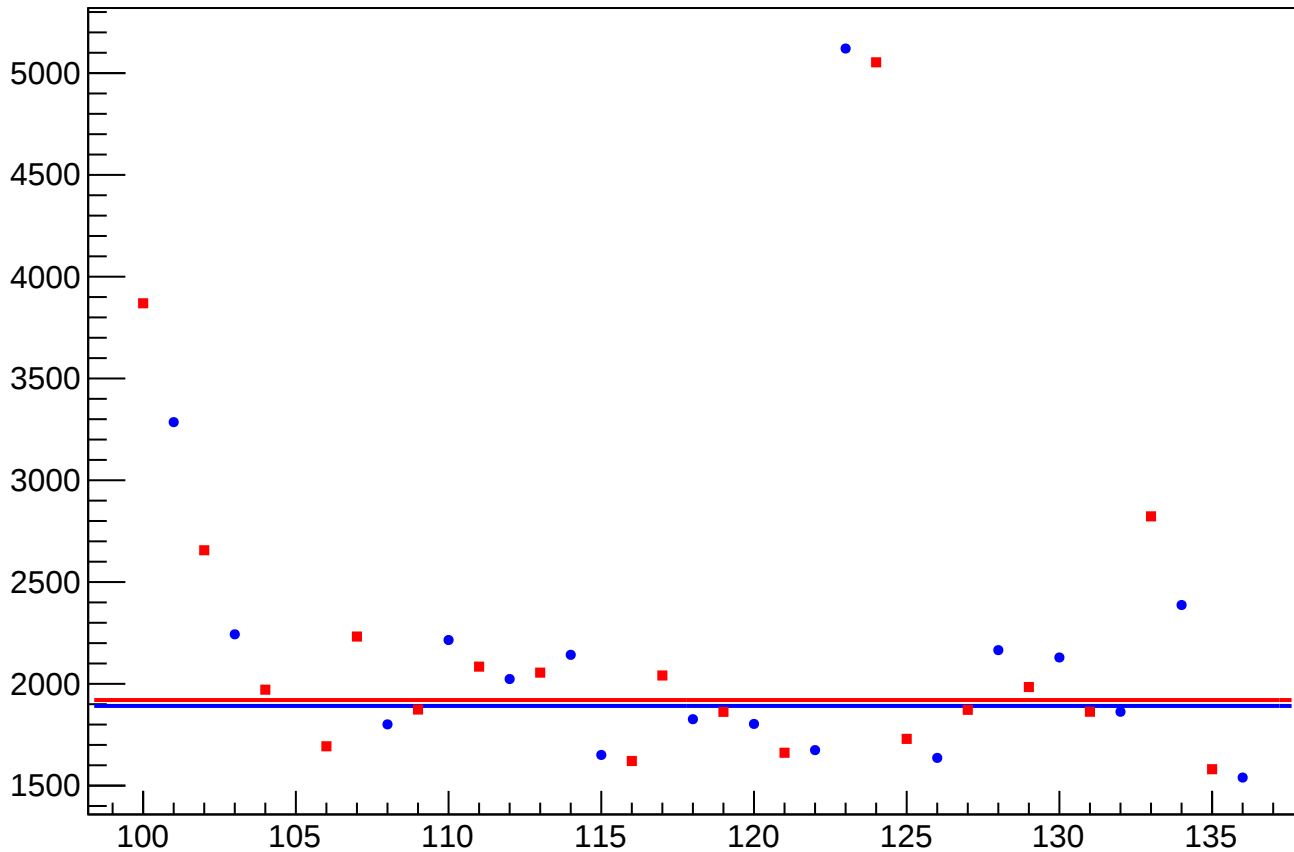
Right Out: 379.519+/-748.857  $\chi^2/\text{NDF}$ : 9.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

83.860+/-750.549  $\chi^2/\text{NDF}$ : 22.9/16

379.519+/-748.857  $\chi^2/\text{NDF}$ : 9.7/18

# asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1891.492+/-0.531  $\chi^2$ /NDF: 464497.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

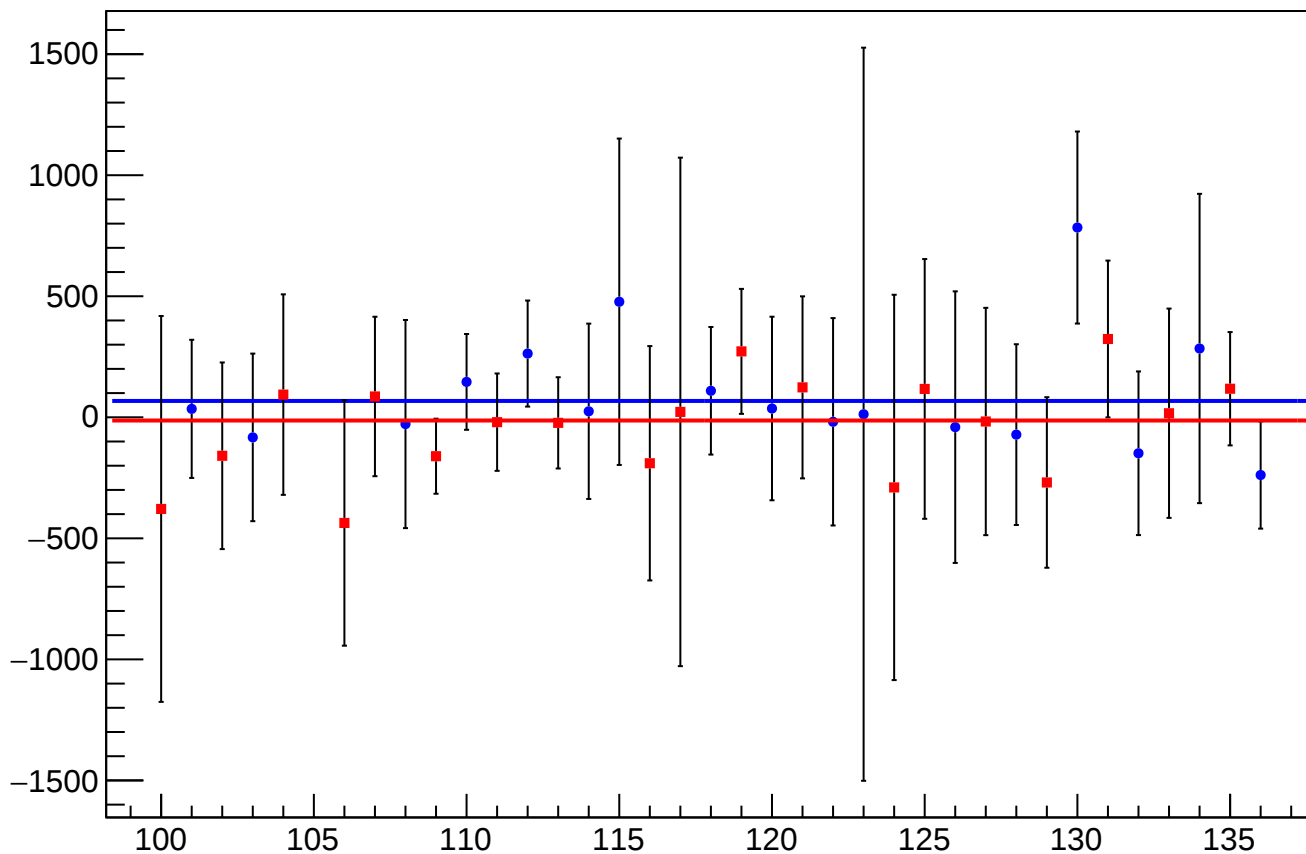
1891.492+/-0.531  $\chi^2$ /NDF: 464497.5/16

Right Out: 1920.481+/-0.530  $\chi^2$ /NDF: 435130.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1920.481+/-0.530  $\chi^2$ /NDF: 435130.1/18

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 67.542+/-79.608  $\chi^2/\text{NDF}$ : 7.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

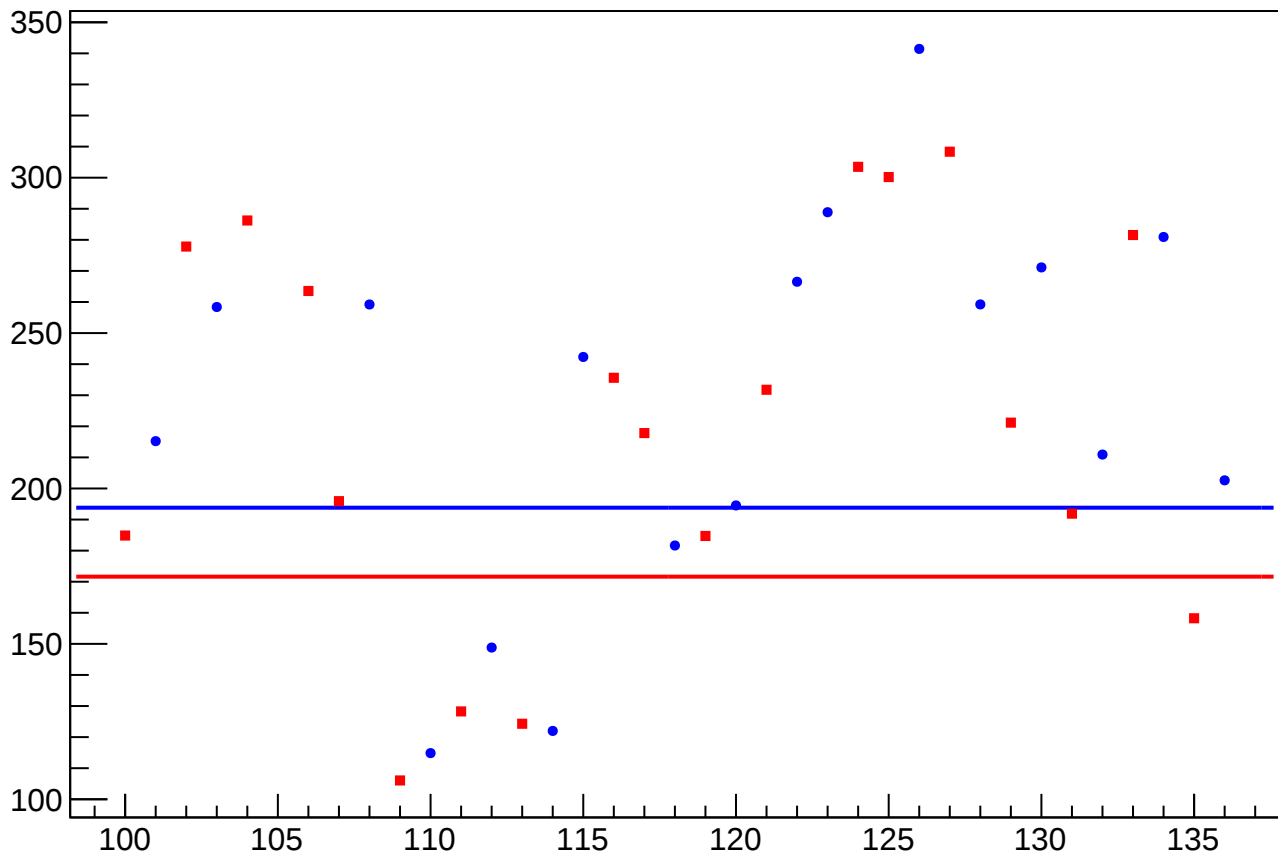
Right Out: -13.291+/-70.747  $\chi^2/\text{NDF}$ : 5.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

67.542+/-79.608  $\chi^2/\text{NDF}$ : 7.5/16

-13.291+/-70.747  $\chi^2/\text{NDF}$ : 5.7/18

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 193.815+/-0.056  $\chi^2/\text{NDF}$ : 1010325.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

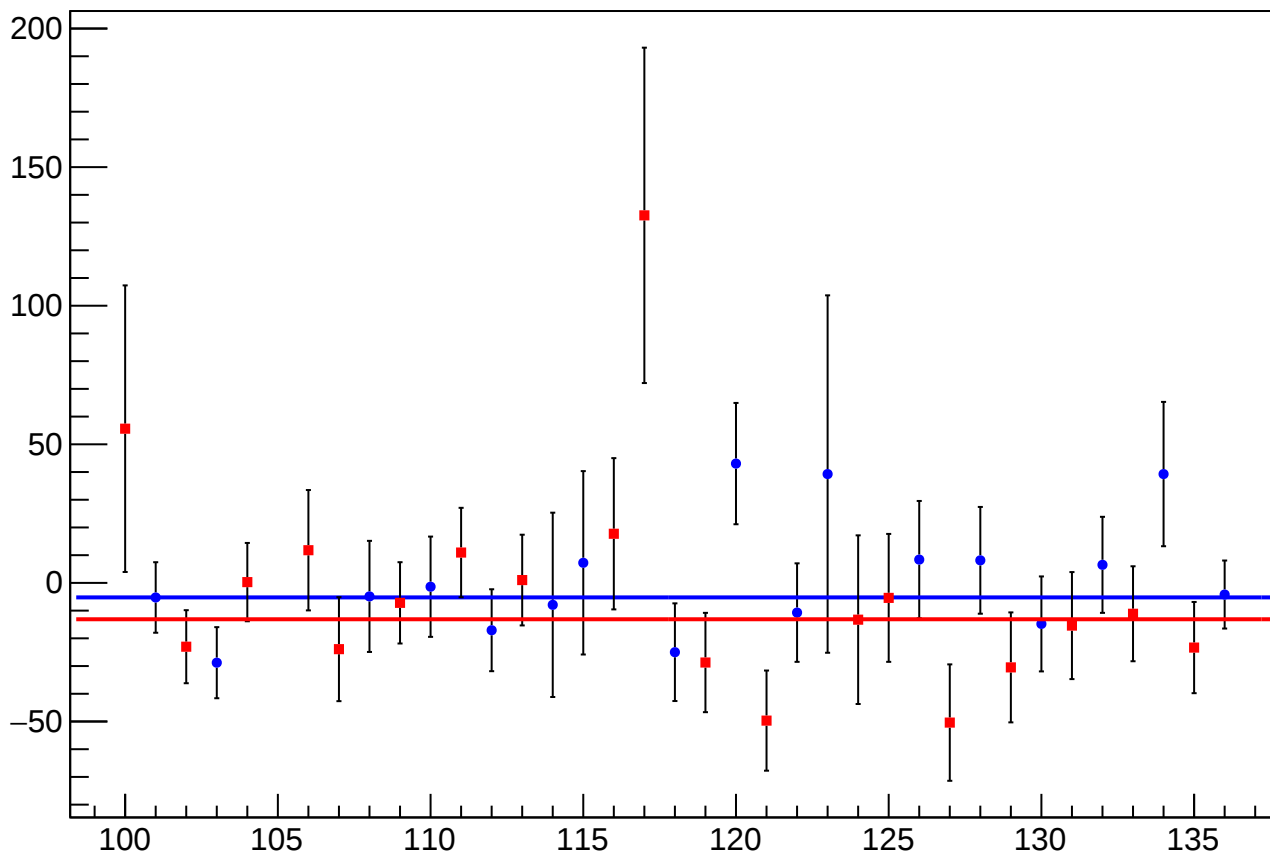
Right Out: 171.629+/-0.050  $\chi^2/\text{NDF}$ : 1576990.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

193.815+/-0.056  $\chi^2/\text{NDF}$ : 1010325.5/16

171.629+/-0.050  $\chi^2/\text{NDF}$ : 1576990.5/18

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -5.231+/-4.356  $\chi^2$ /NDF: 15.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

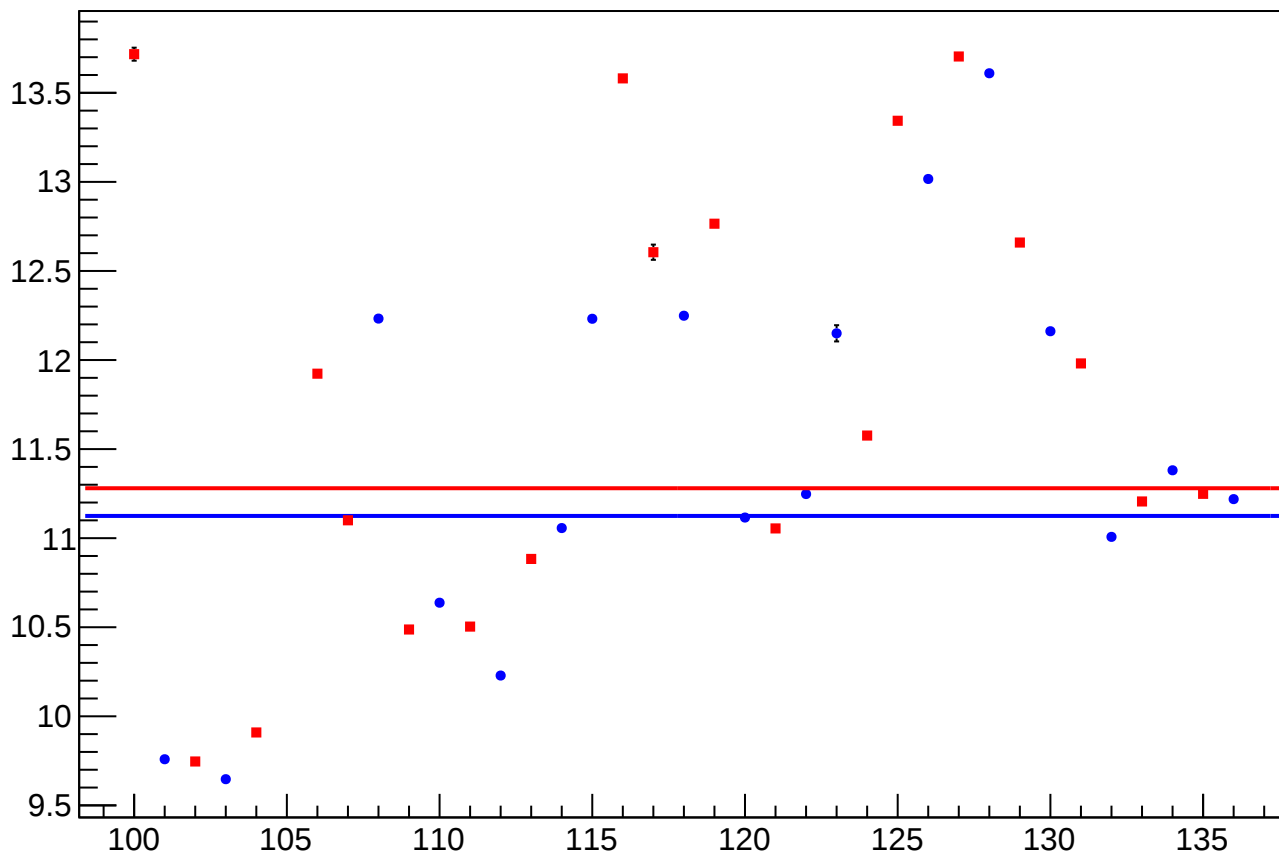
Right Out: -13.118+/-4.316  $\chi^2$ /NDF: 24.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-5.231+/-4.356  $\chi^2$ /NDF: 15.5/16

-13.118+/-4.316  $\chi^2$ /NDF: 24.4/18

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 11.125+/-0.003  $\chi^2/\text{NDF}$ : 132520.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

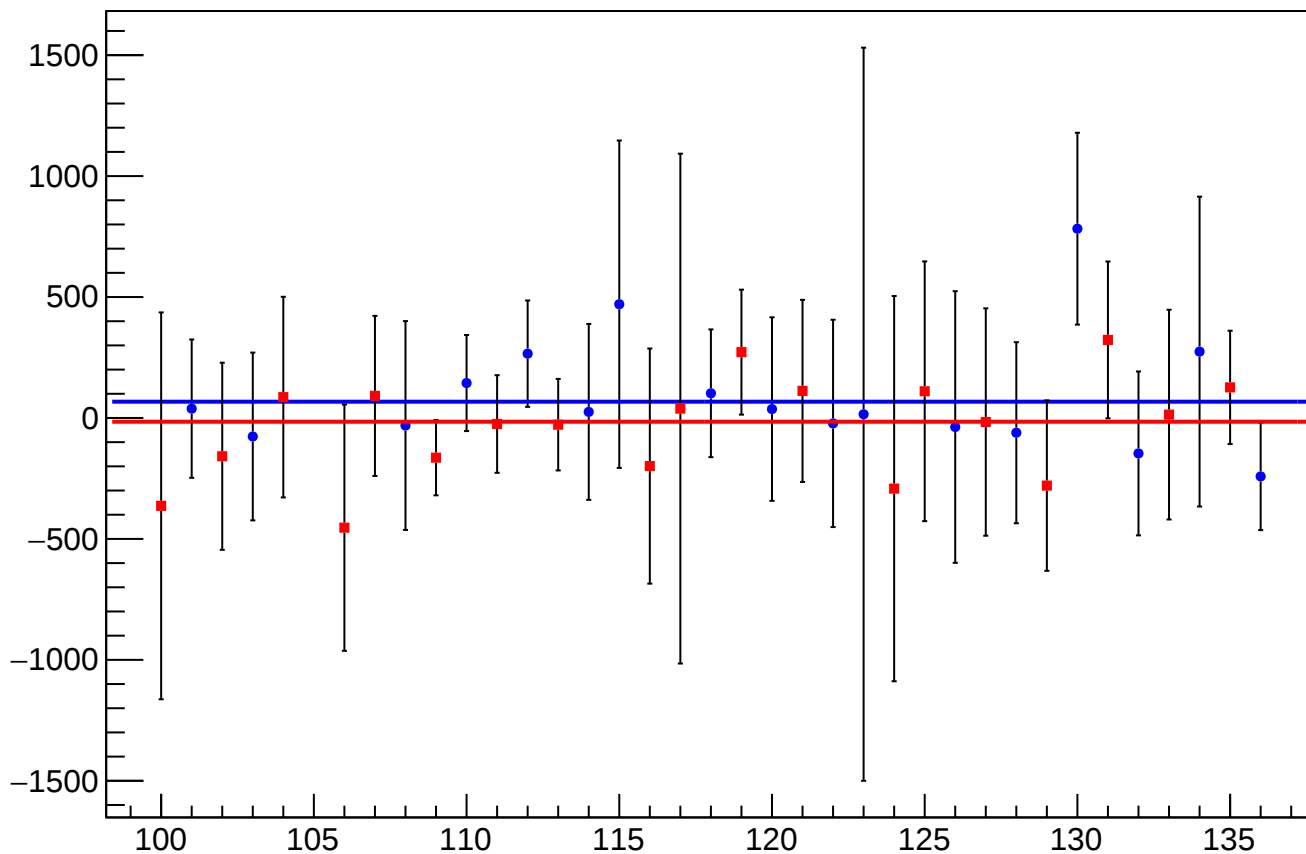
11.125+/-0.003  $\chi^2/\text{NDF}$ : 132520.1/16

Right Out: 11.280+/-0.003  $\chi^2/\text{NDF}$ : 148357.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

11.280+/-0.003  $\chi^2/\text{NDF}$ : 148357.7/18

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs Slug



Right In: 67.305+/-79.817  $\chi^2/\text{NDF}$ : 7.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

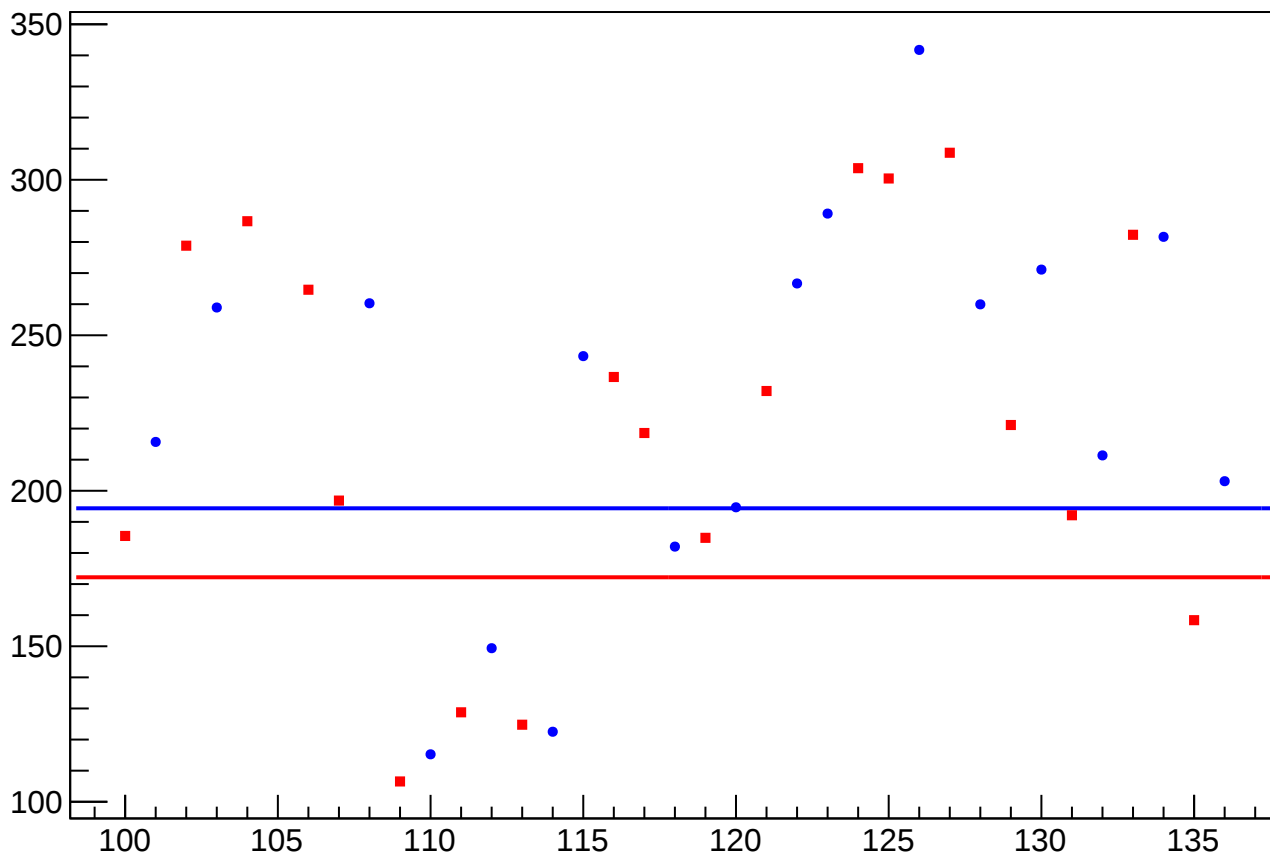
Right Out: -15.555+/-70.953  $\chi^2/\text{NDF}$ : 5.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

67.305+/-79.817  $\chi^2/\text{NDF}$ : 7.5/16

-15.555+/-70.953  $\chi^2/\text{NDF}$ : 5.8/18

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs Slug



Right In: 194.365+/-0.056  $\chi^2/\text{NDF}$ : 1005234.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

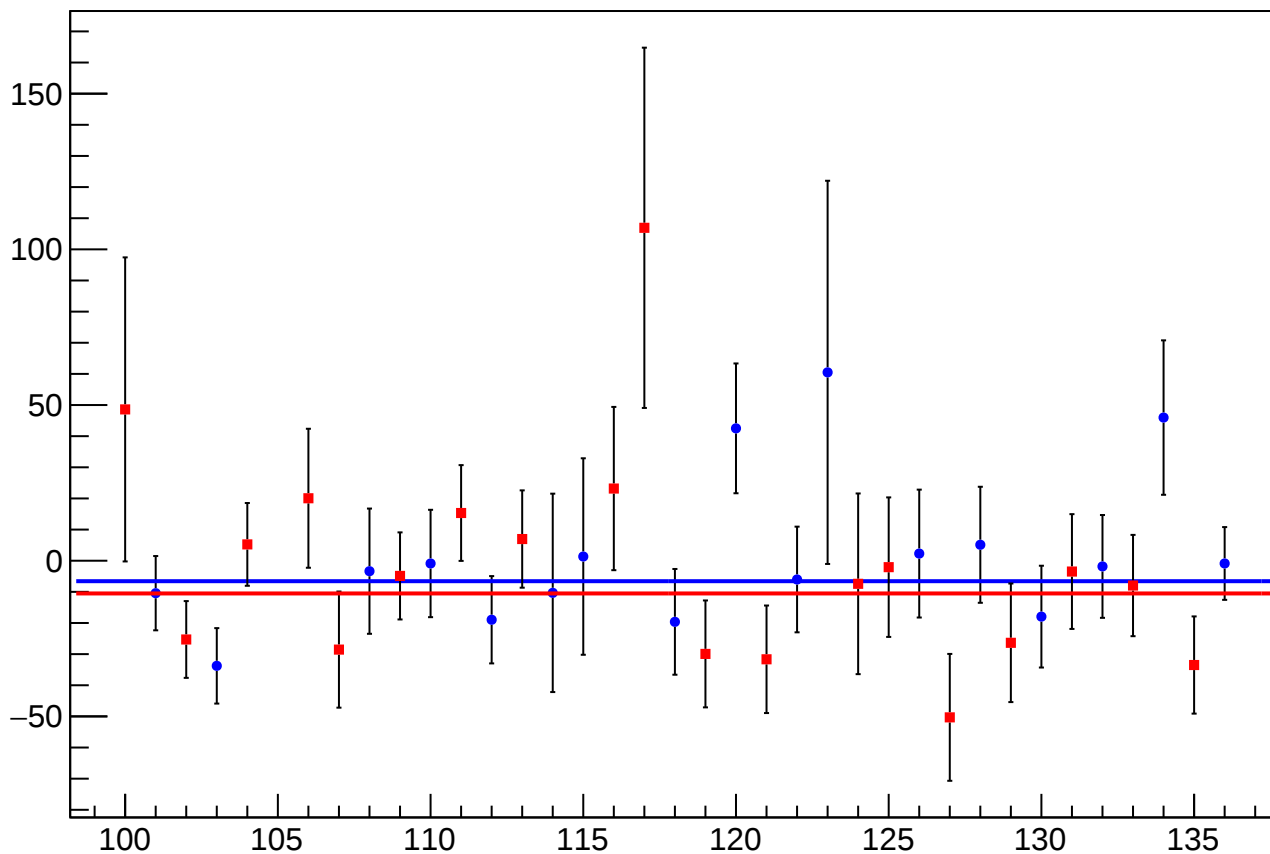
Right Out: 172.183+/-0.050  $\chi^2/\text{NDF}$ : 1569626.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

194.365+/-0.056  $\chi^2/\text{NDF}$ : 1005234.4/16

172.183+/-0.050  $\chi^2/\text{NDF}$ : 1569626.6/18

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs Slug



Right In: -6.575+/-4.157  $\chi^2/\text{NDF}$ : 19.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

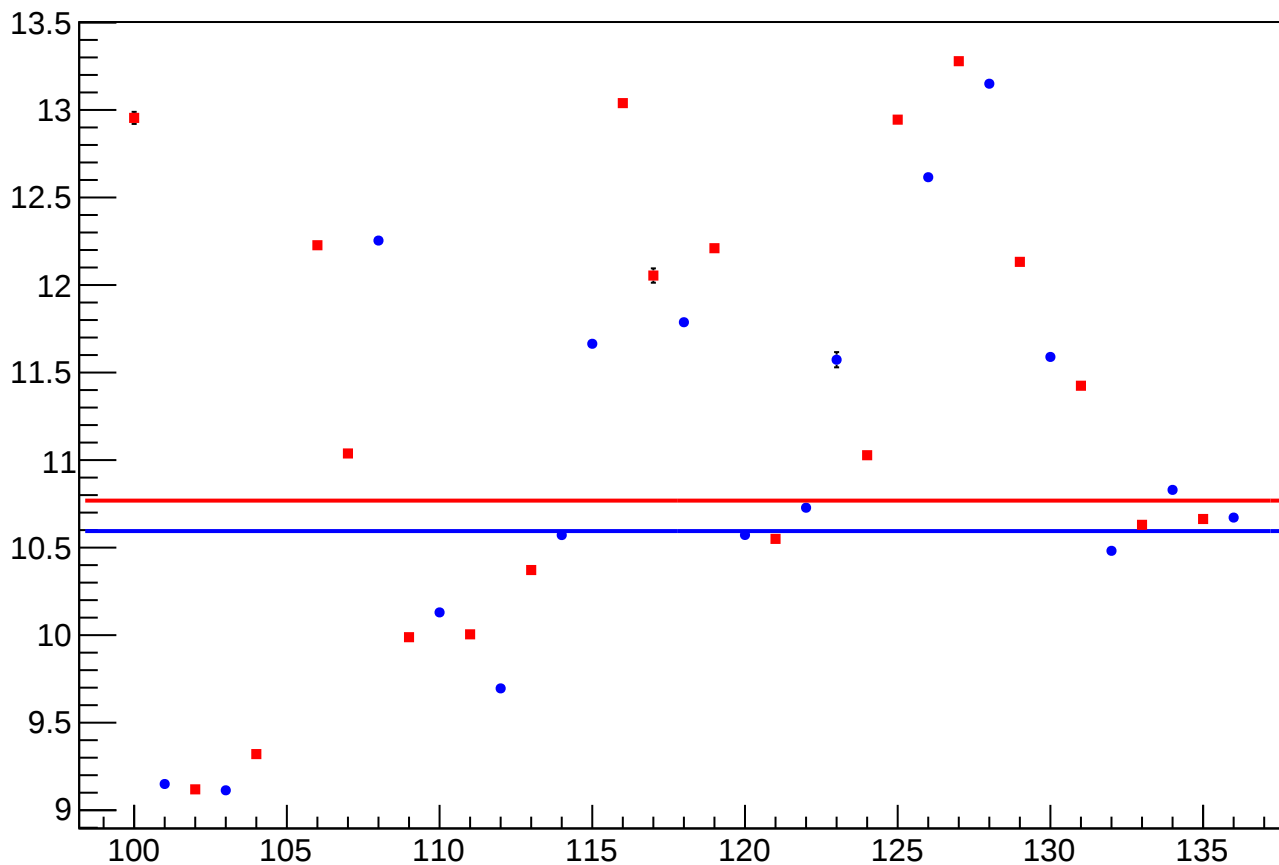
Right Out: -10.513+/-4.129  $\chi^2/\text{NDF}$ : 26.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.575+/-4.157  $\chi^2/\text{NDF}$ : 19.3/16

-10.513+/-4.129  $\chi^2/\text{NDF}$ : 26.9/18

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs Slug



Right In: 10.594+/-0.003  $\chi^2/\text{NDF}$ : 160059.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

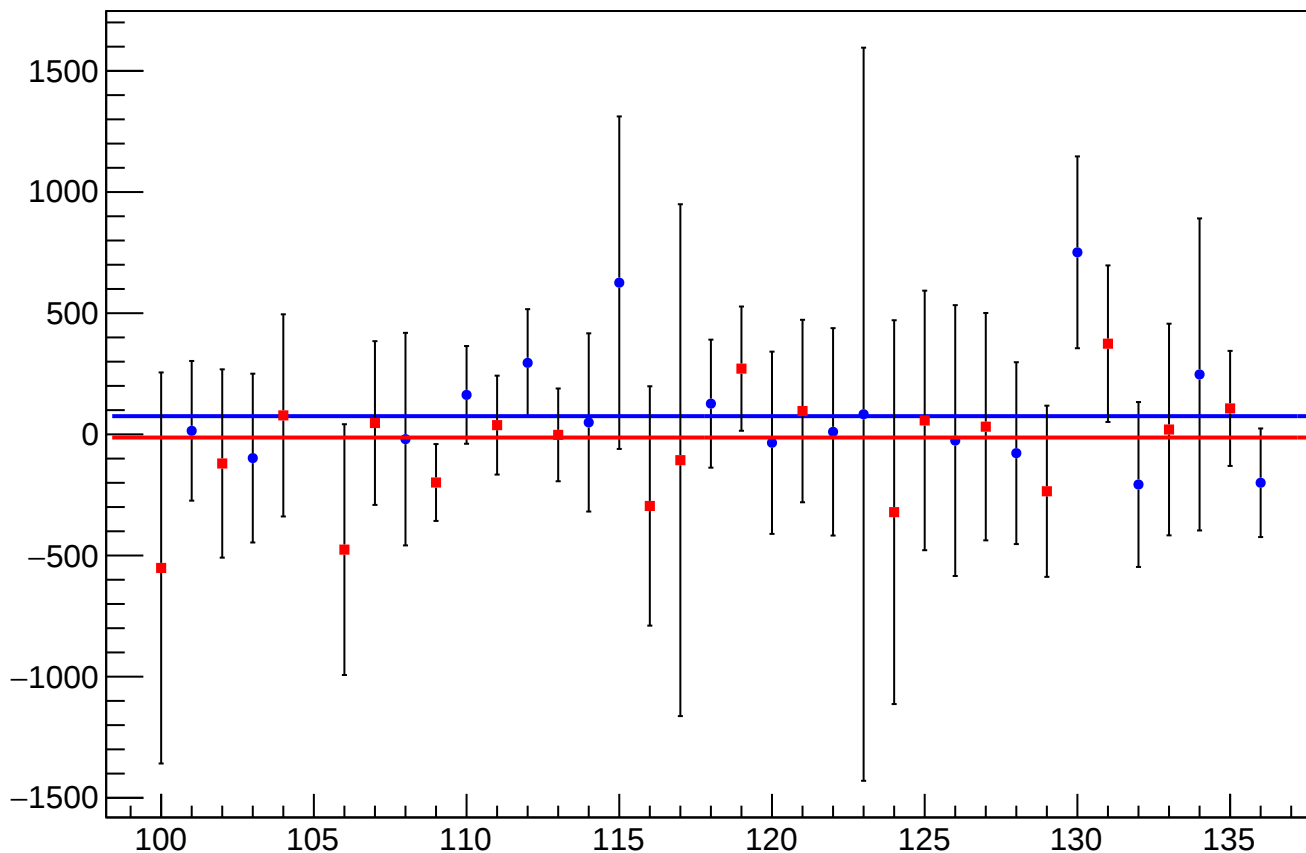
10.594+/-0.003  $\chi^2/\text{NDF}$ : 160059.2/16

Right Out: 10.769+/-0.003  $\chi^2/\text{NDF}$ : 177769.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.769+/-0.003  $\chi^2/\text{NDF}$ : 177769.2/18

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 75.086+/-80.352  $\chi^2/\text{NDF}$ : 7.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

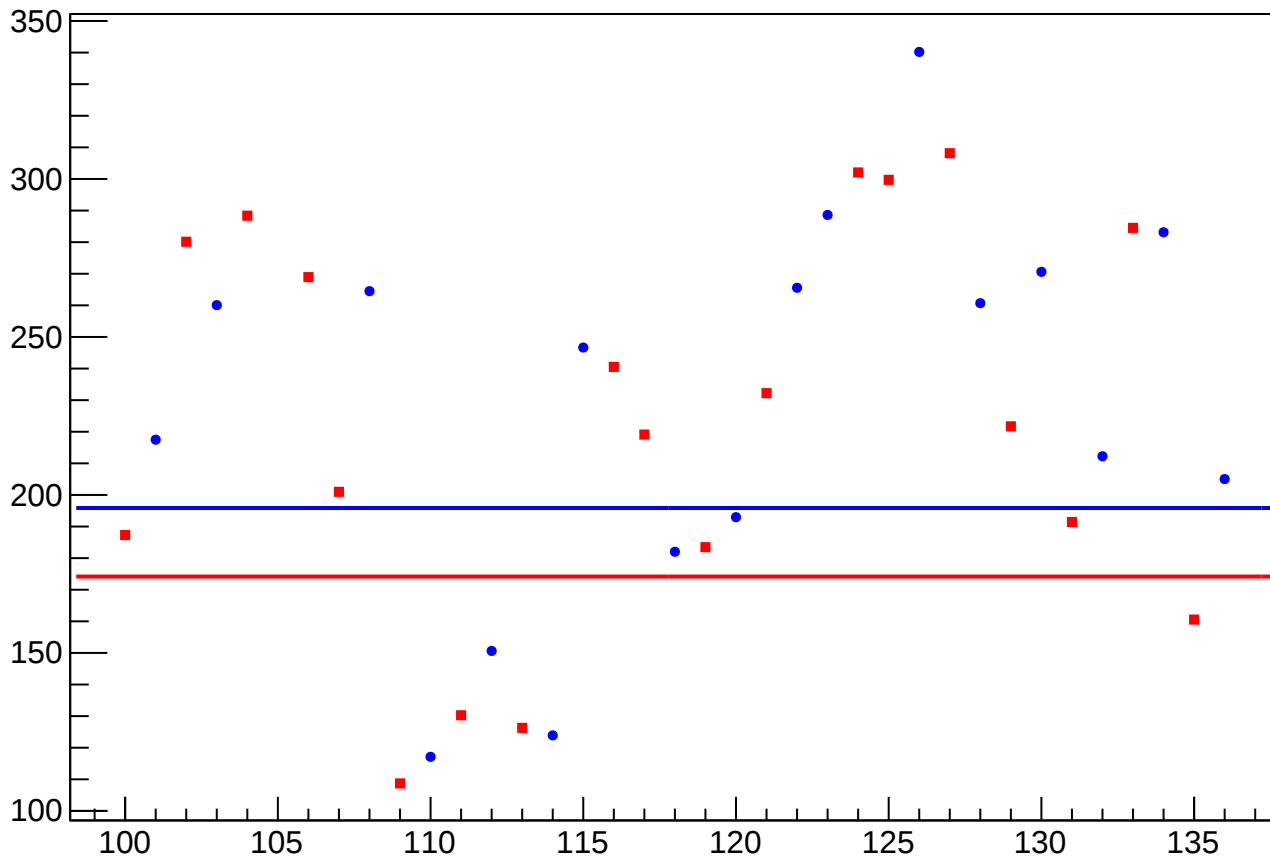
Right Out: -13.142+/-71.627  $\chi^2/\text{NDF}$ : 6.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

75.086+/-80.352  $\chi^2/\text{NDF}$ : 7.7/16

-13.142+/-71.627  $\chi^2/\text{NDF}$ : 6.8/18

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 195.869+/-0.057  $\chi^2/\text{NDF}$ : 979247.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

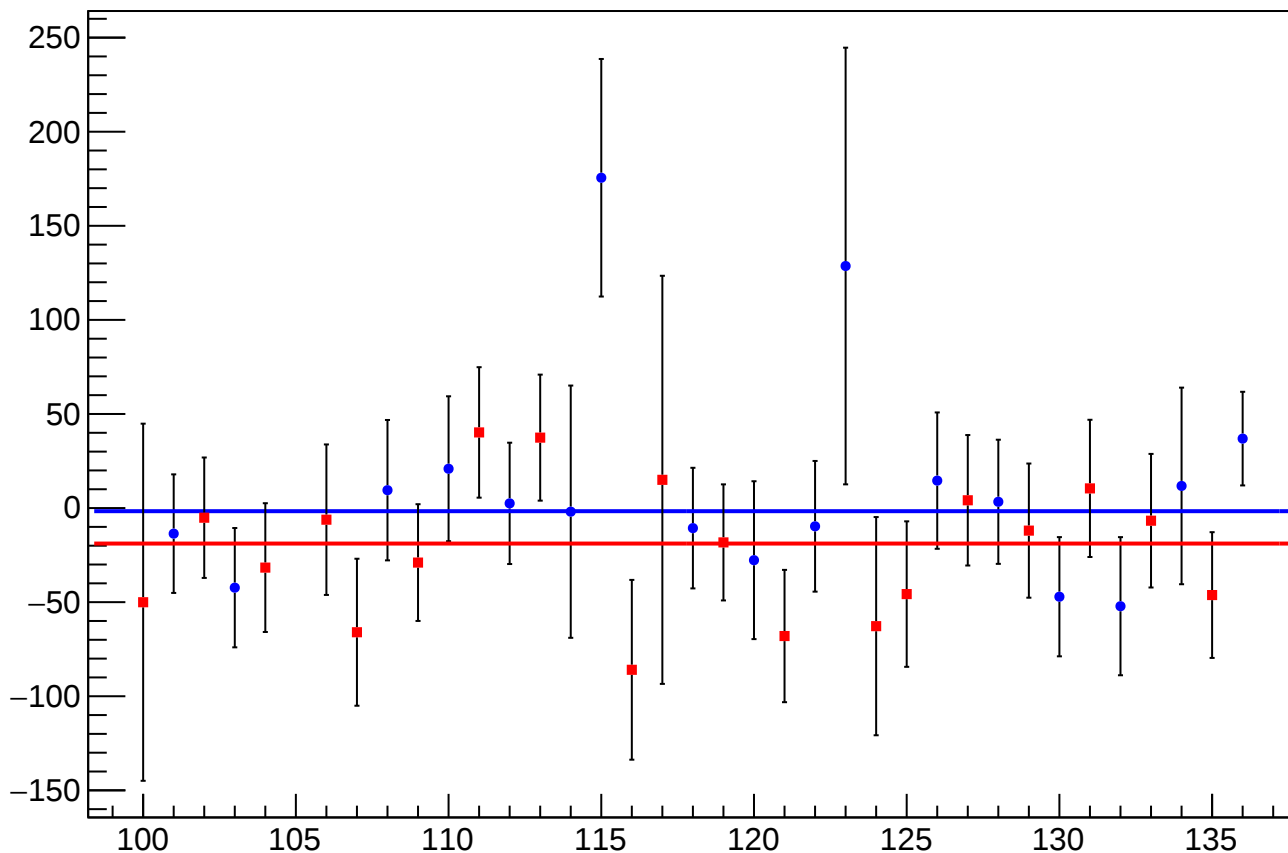
Right Out: 174.175+/-0.051  $\chi^2/\text{NDF}$ : 1528586.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

195.869+/-0.057  $\chi^2/\text{NDF}$ : 979247.4/16

174.175+/-0.051  $\chi^2/\text{NDF}$ : 1528586.3/18

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -1.654+/-8.881  $\chi^2/\text{NDF}$ : 18.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

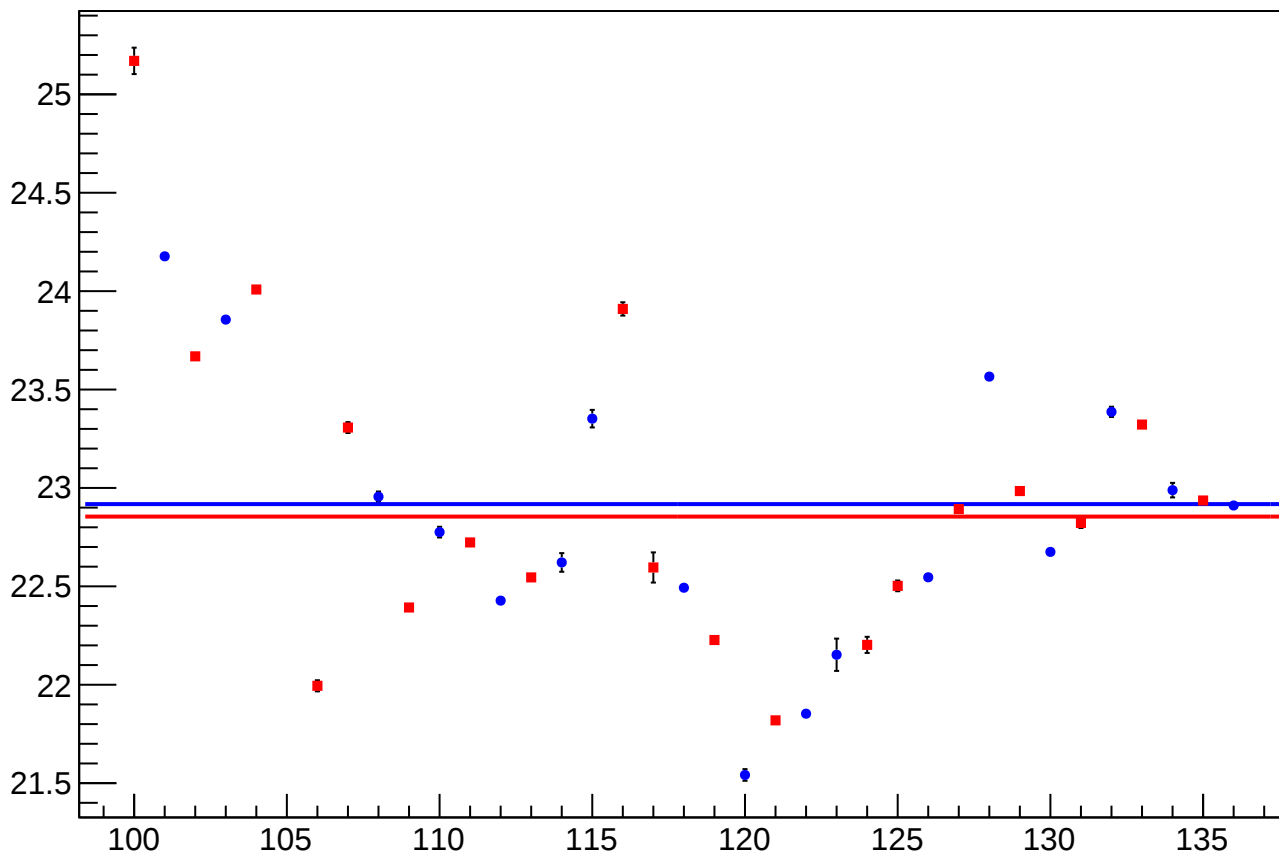
Right Out: -18.861+/-8.640  $\chi^2/\text{NDF}$ : 14.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.654+/-8.881  $\chi^2/\text{NDF}$ : 18.5/16

-18.861+/-8.640  $\chi^2/\text{NDF}$ : 14.8/18

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 22.918+/-0.006  $\chi^2/\text{NDF}$ : 11472.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

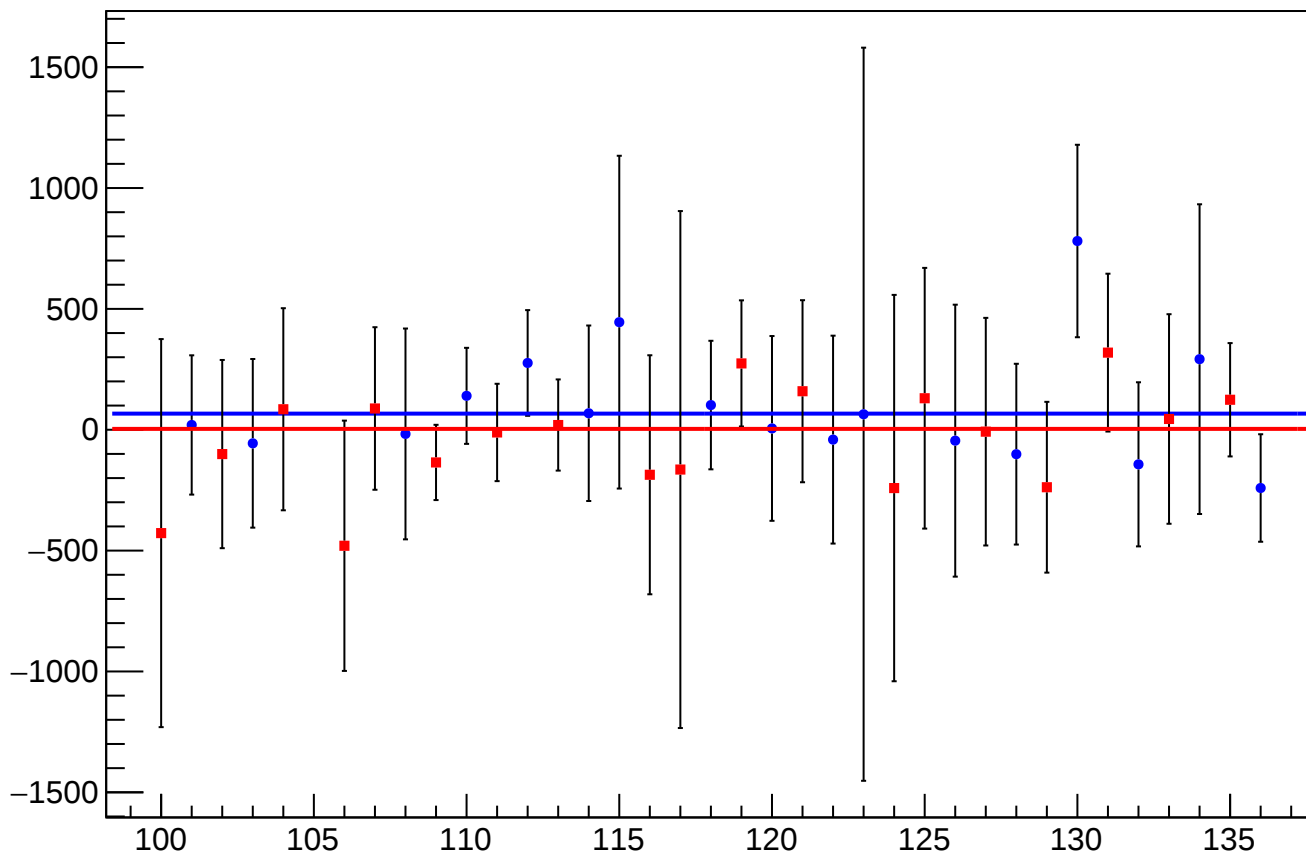
Right Out: 22.854+/-0.006  $\chi^2/\text{NDF}$ : 10953.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

22.918+/-0.006  $\chi^2/\text{NDF}$ : 11472.2/16

22.854+/-0.006  $\chi^2/\text{NDF}$ : 10953.9/18

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 66.701+/-79.995  $\chi^2/\text{NDF}$ : 7.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

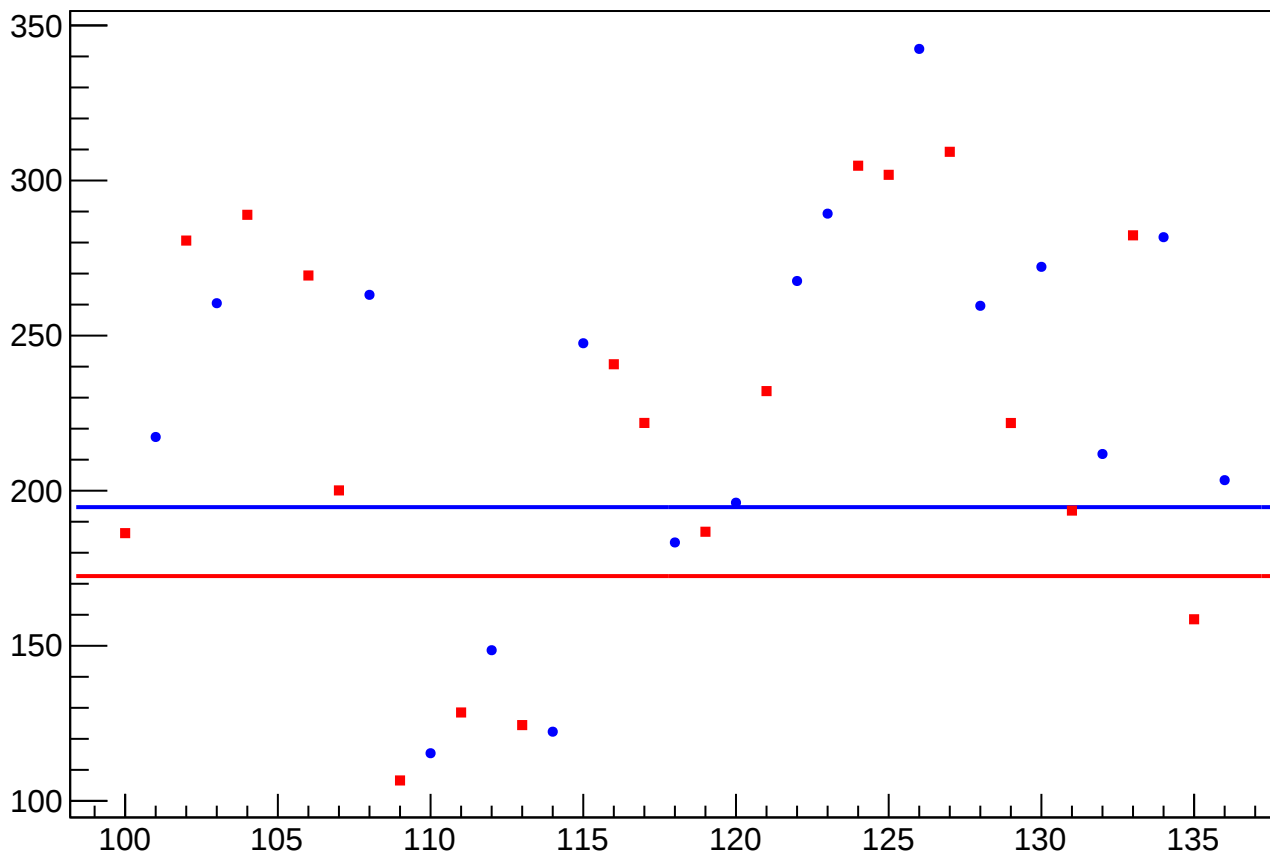
Right Out: 3.543+/-71.136  $\chi^2/\text{NDF}$ : 5.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

66.701+/-79.995  $\chi^2/\text{NDF}$ : 7.5/16

3.543+/-71.136  $\chi^2/\text{NDF}$ : 5.4/18

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 194.703+/-0.057  $\chi^2/\text{NDF}$ : 1019872.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

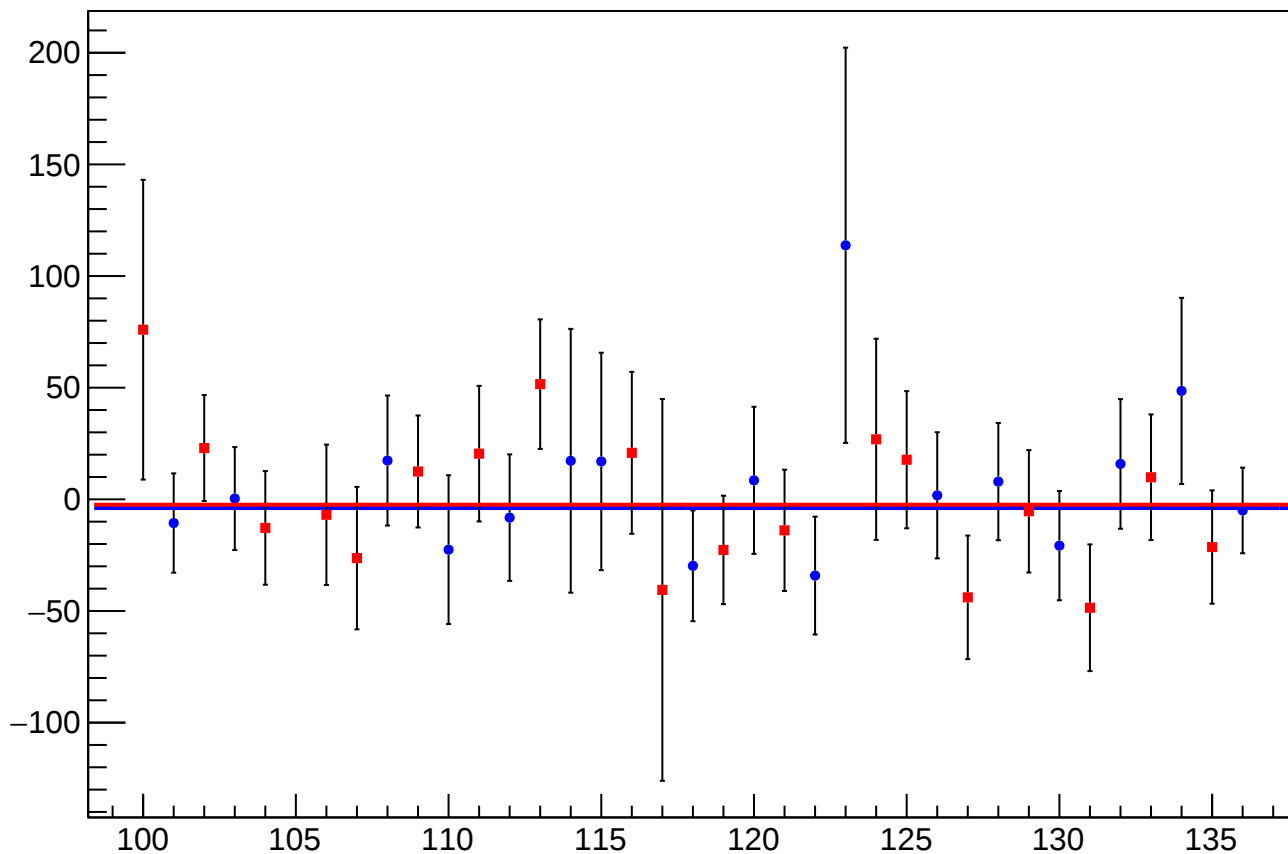
Right Out: 172.475+/-0.050  $\chi^2/\text{NDF}$ : 1597373.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

194.703+/-0.057  $\chi^2/\text{NDF}$ : 1019872.4/16

172.475+/-0.050  $\chi^2/\text{NDF}$ : 1597373.9/18

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -3.894+/-6.915  $\chi^2/\text{NDF}$ : 8.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

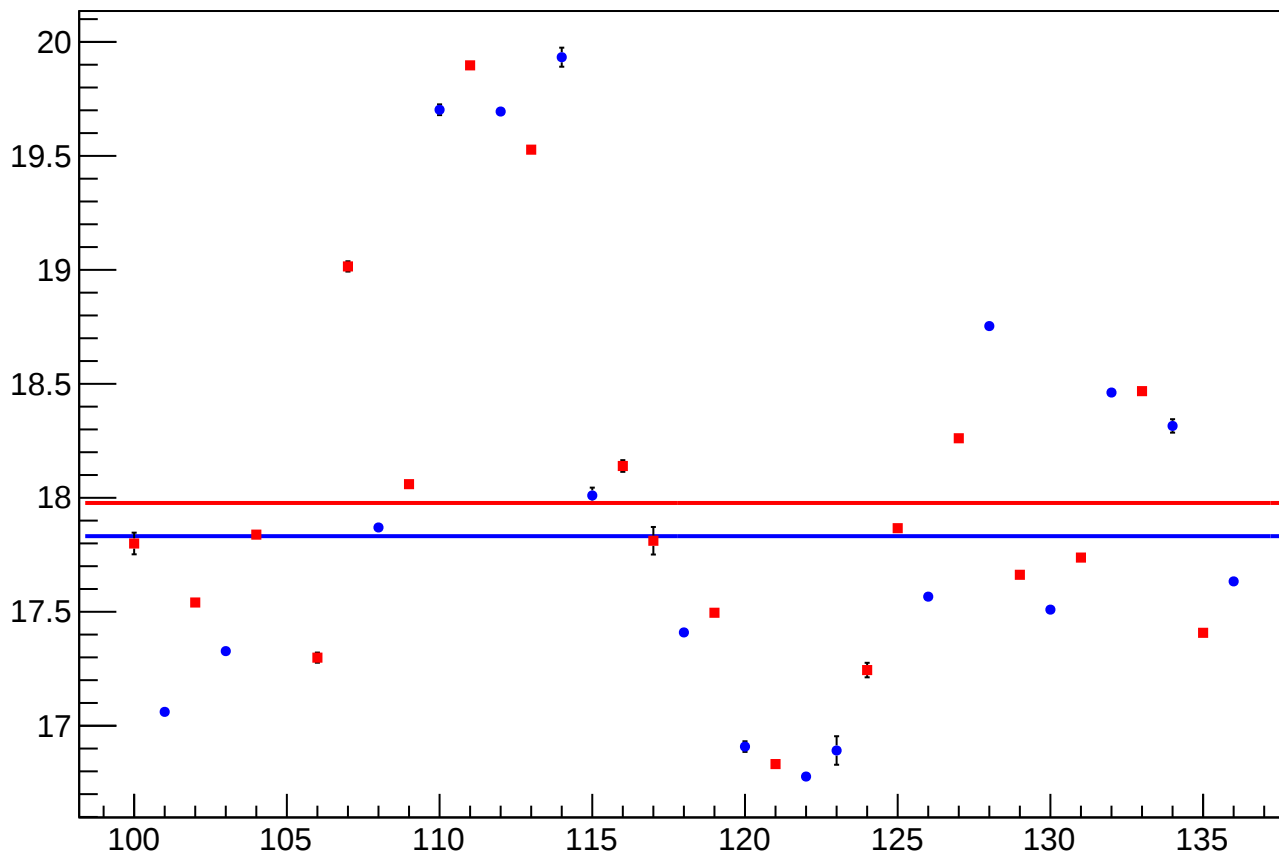
Right Out: -2.408+/-6.804  $\chi^2/\text{NDF}$ : 15.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.894+/-6.915  $\chi^2/\text{NDF}$ : 8.4/16

-2.408+/-6.804  $\chi^2/\text{NDF}$ : 15.6/18

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 17.832+/-0.005  $\chi^2/\text{NDF}$ : 30863.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

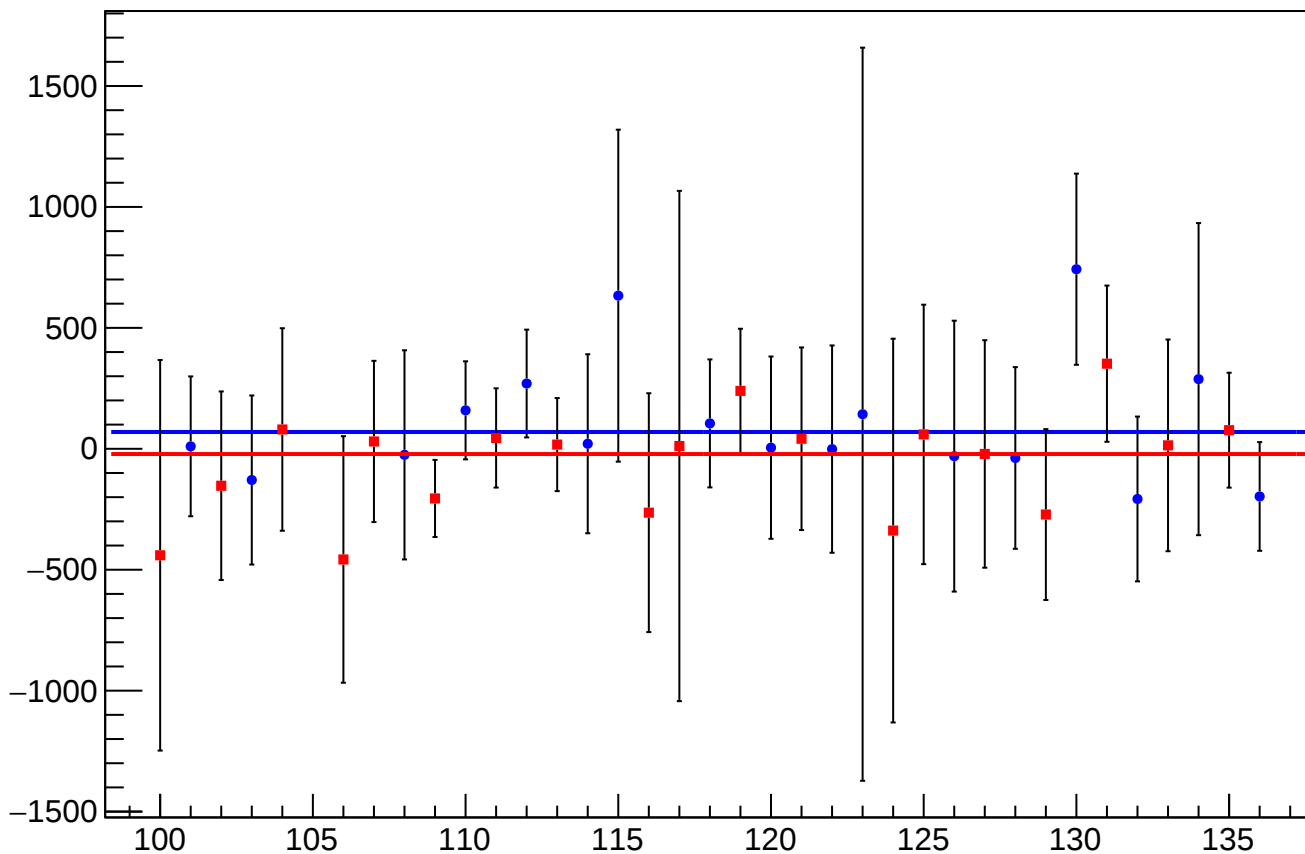
Right Out: 17.977+/-0.005  $\chi^2/\text{NDF}$ : 24705.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

17.832+/-0.005  $\chi^2/\text{NDF}$ : 30863.4/16

17.977+/-0.005  $\chi^2/\text{NDF}$ : 24705.6/18

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: 69.511+/-80.550  $\chi^2/\text{NDF}$ : 7.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

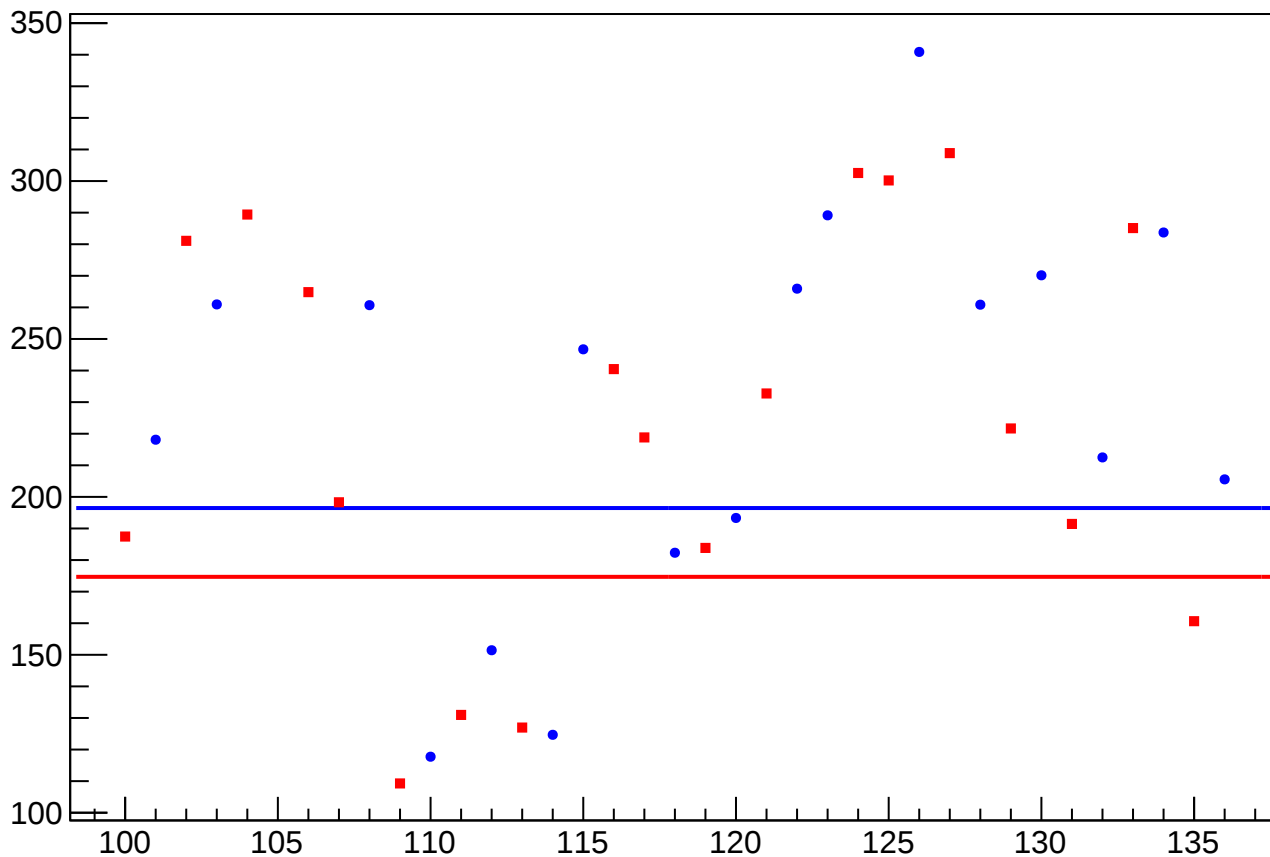
Right Out: -21.632+/-71.785  $\chi^2/\text{NDF}$ : 6.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

69.511+/-80.550  $\chi^2/\text{NDF}$ : 7.4/16

-21.632+/-71.785  $\chi^2/\text{NDF}$ : 6.2/18

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs Slug



Right In: 196.470+/-0.057  $\chi^2/\text{NDF}$ : 964281.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

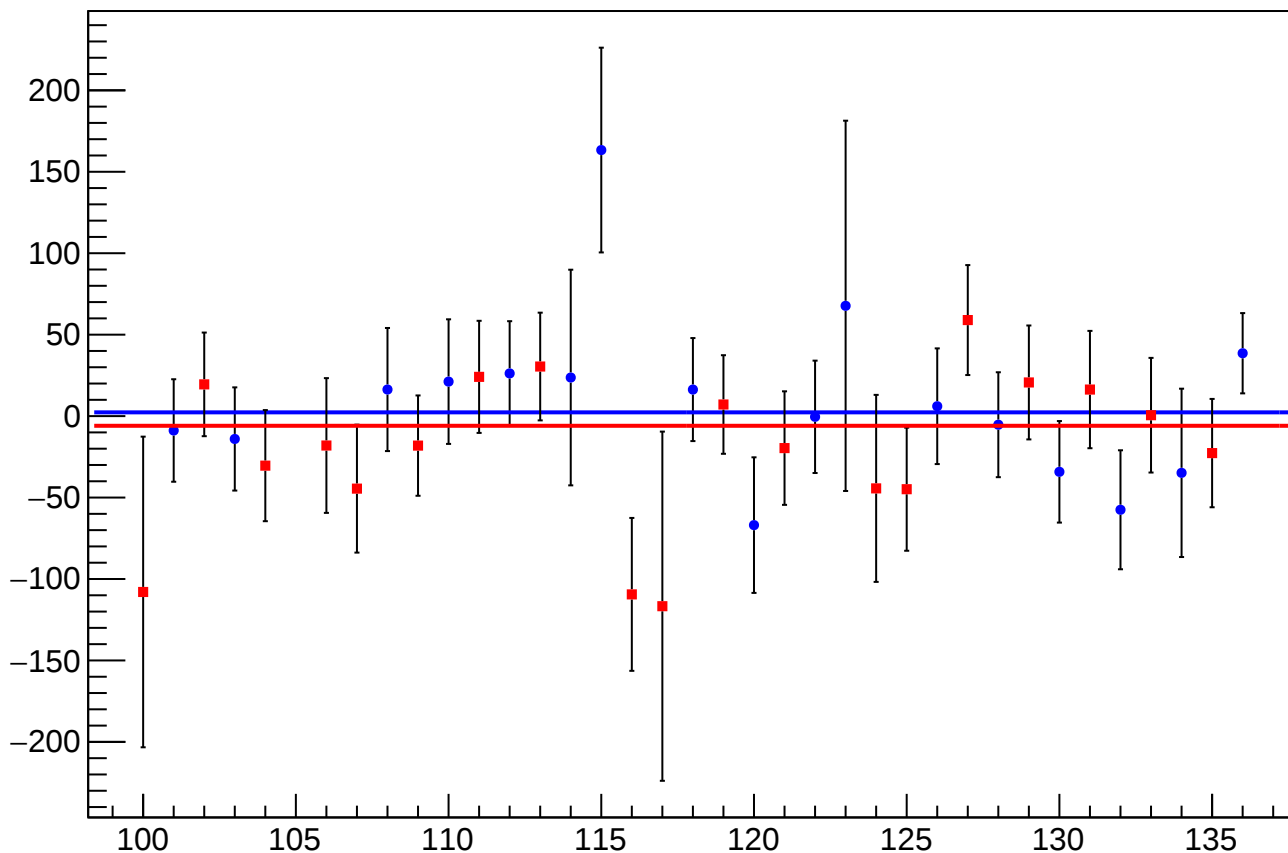
196.470+/-0.057  $\chi^2/\text{NDF}$ : 964281.5/16

Right Out: 174.688+/-0.051  $\chi^2/\text{NDF}$ : 1510797.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

174.688+/-0.051  $\chi^2/\text{NDF}$ : 1510797.0/18

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: 2.307+/-8.805  $\chi^2/\text{NDF}$ : 18.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

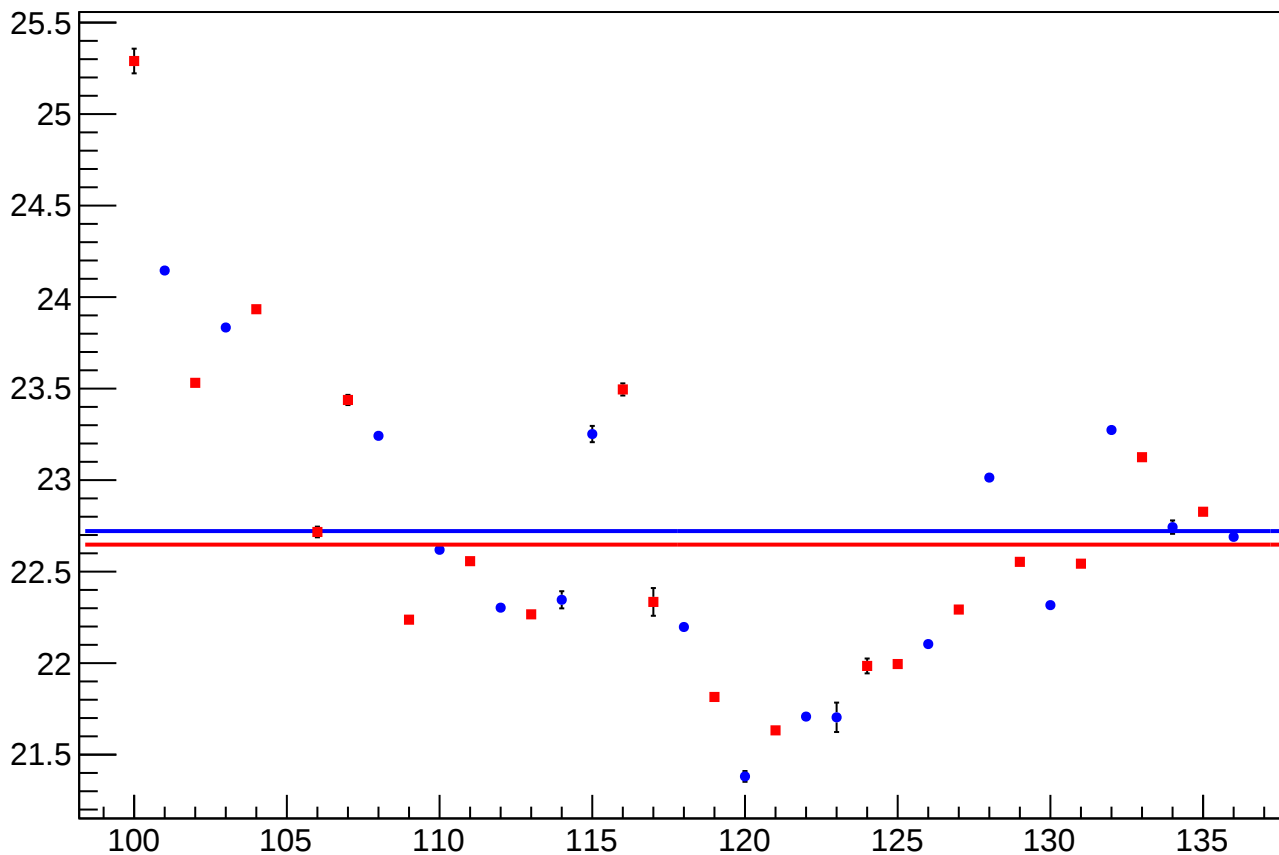
Right Out: -5.938+/-8.561  $\chi^2/\text{NDF}$ : 18.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.307+/-8.805  $\chi^2/\text{NDF}$ : 18.1/16

-5.938+/-8.561  $\chi^2/\text{NDF}$ : 18.2/18

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 22.722+/-0.006  $\chi^2$ /NDF: 13580.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

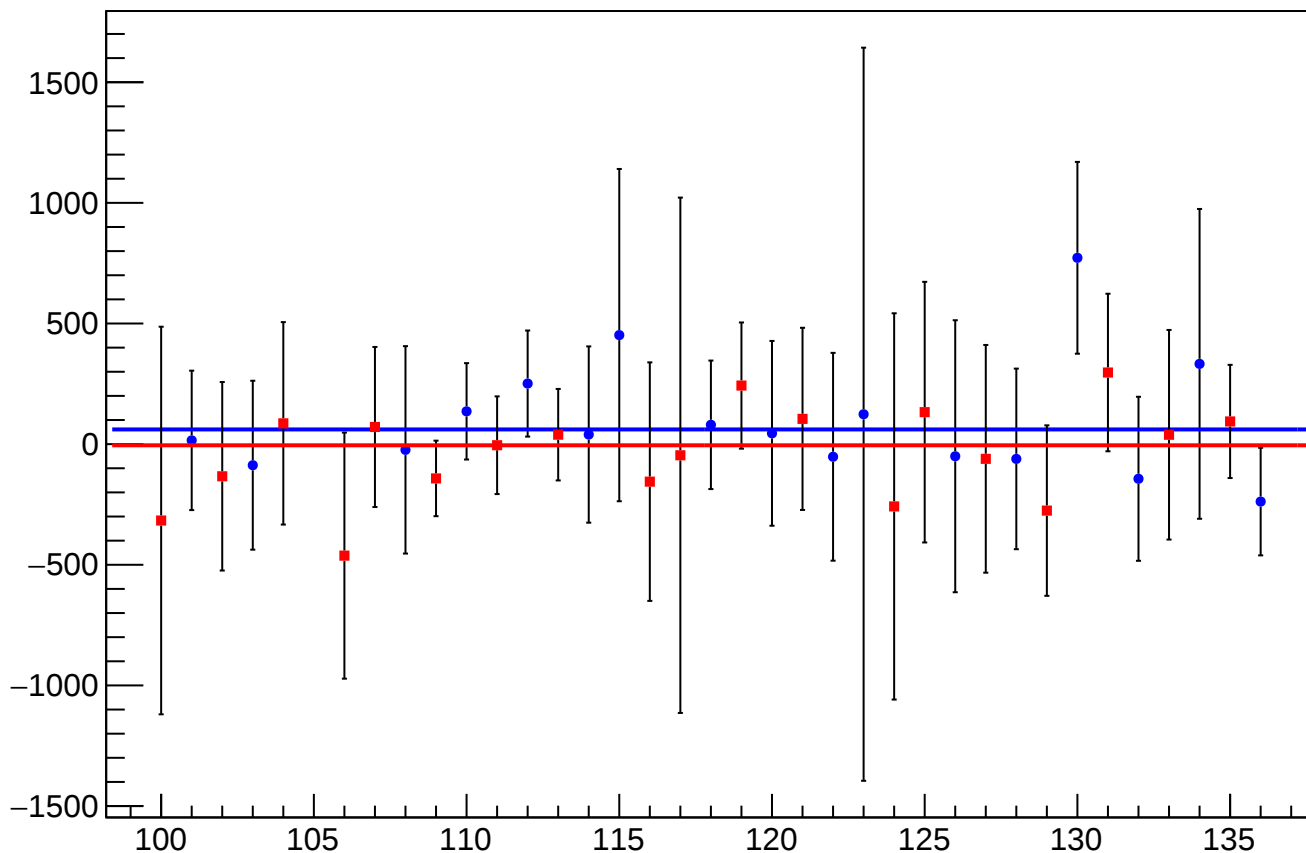
Right Out: 22.648+/-0.006  $\chi^2$ /NDF: 12794.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

22.722+/-0.006  $\chi^2$ /NDF: 13580.6/16

22.648+/-0.006  $\chi^2$ /NDF: 12794.7/18

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: 60.960 $\pm$ 80.197  $\chi^2$ /NDF: 7.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

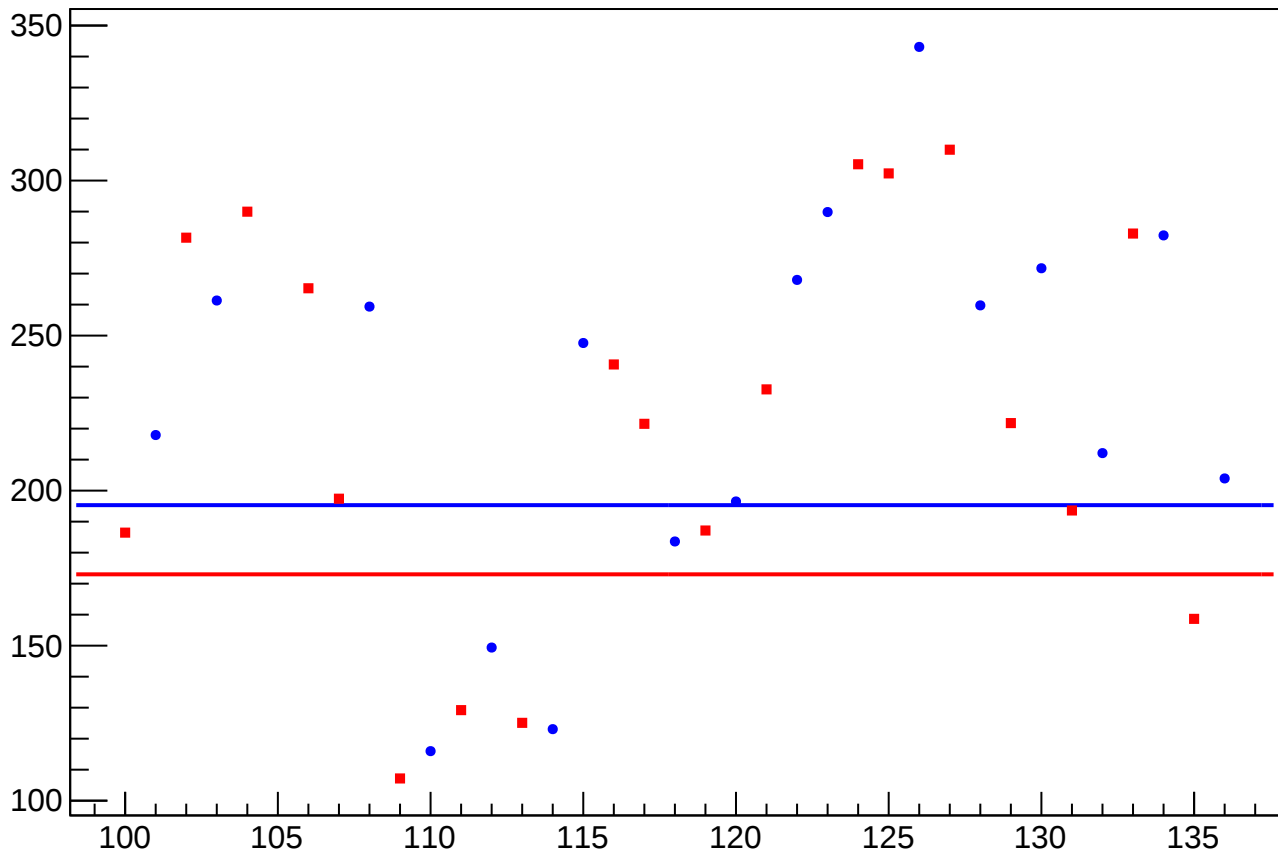
Right Out: -4.779 $\pm$ 71.298  $\chi^2$ /NDF: 4.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

60.960 $\pm$ 80.197  $\chi^2$ /NDF: 7.2/16

-4.779 $\pm$ 71.298  $\chi^2$ /NDF: 4.9/18

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs Slug



Right In: 195.316+/-0.057  $\chi^2/\text{NDF}$ : 1004211.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

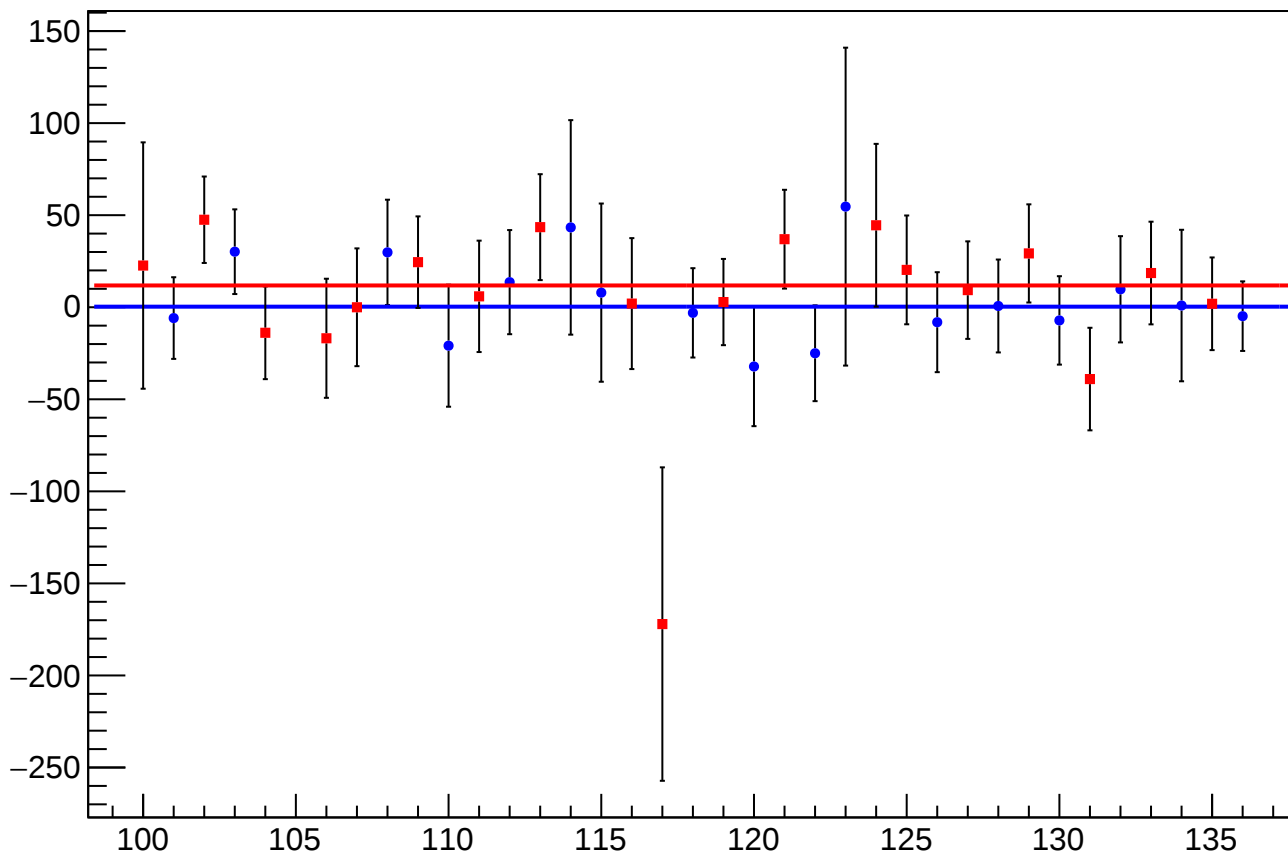
Right Out: 173.005+/-0.050  $\chi^2/\text{NDF}$ : 1578690.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

195.316+/-0.057  $\chi^2/\text{NDF}$ : 1004211.5/16

173.005+/-0.050  $\chi^2/\text{NDF}$ : 1578690.8/18

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: 0.305+/-6.812  $\chi^2/\text{NDF}$ : 6.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

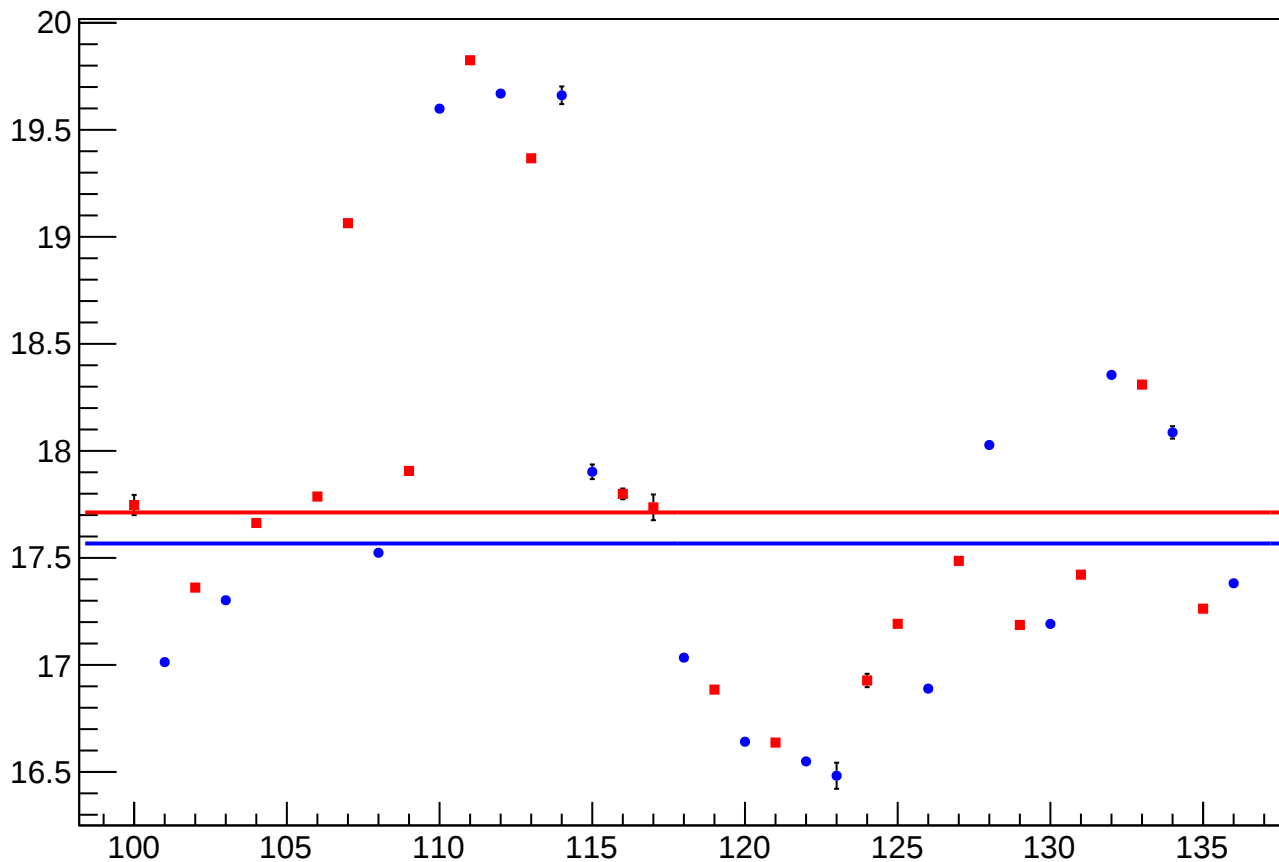
Right Out: 11.828+/-6.704  $\chi^2/\text{NDF}$ : 16.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.305+/-6.812  $\chi^2/\text{NDF}$ : 6.8/16

11.828+/-6.704  $\chi^2/\text{NDF}$ : 16.2/18

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 17.567+/-0.005  $\chi^2/\text{NDF}$ : 33145.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

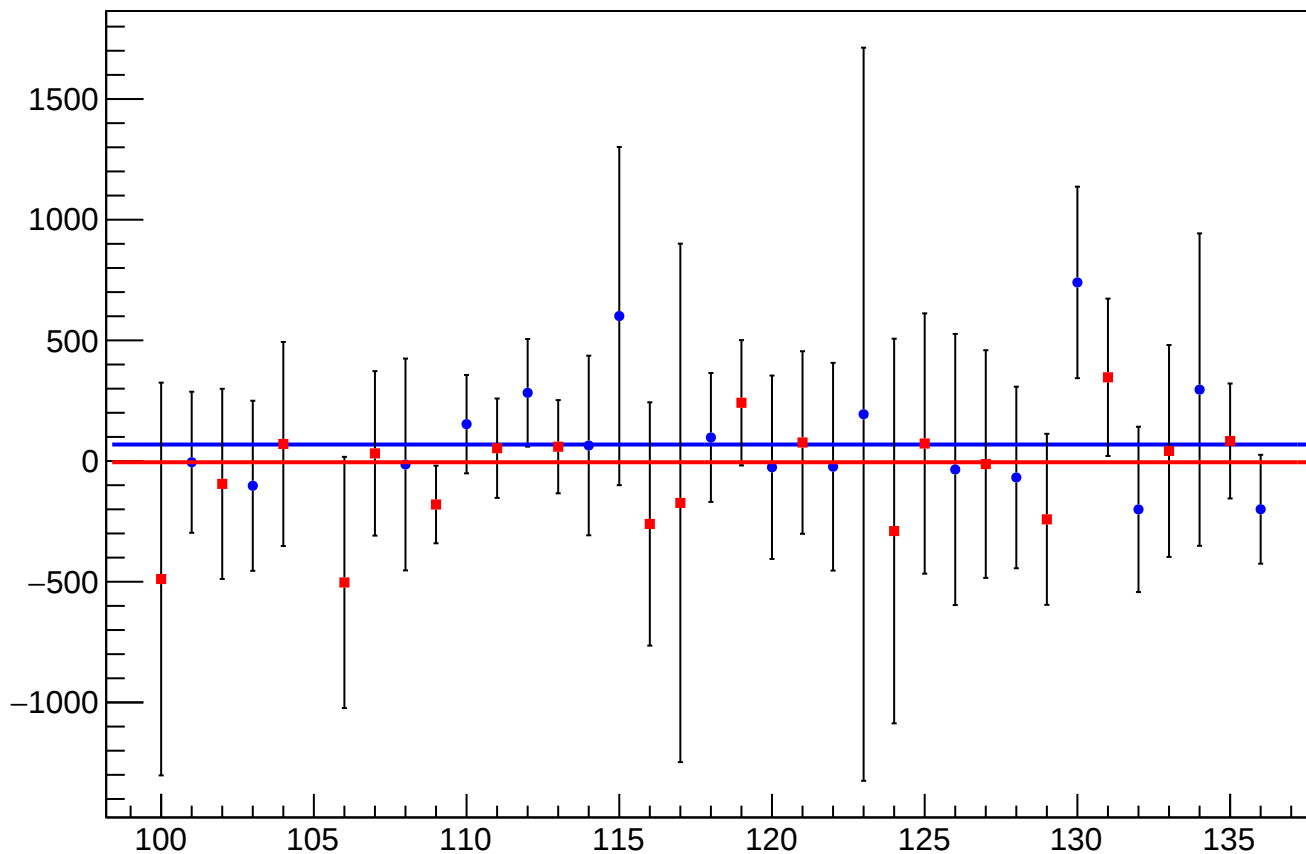
Right Out: 17.712+/-0.005  $\chi^2/\text{NDF}$ : 30203.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

17.567+/-0.005  $\chi^2/\text{NDF}$ : 33145.0/16

17.712+/-0.005  $\chi^2/\text{NDF}$ : 30203.4/18

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug



Right In: 68.553+/-81.018  $\chi^2/\text{NDF}$ : 7.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

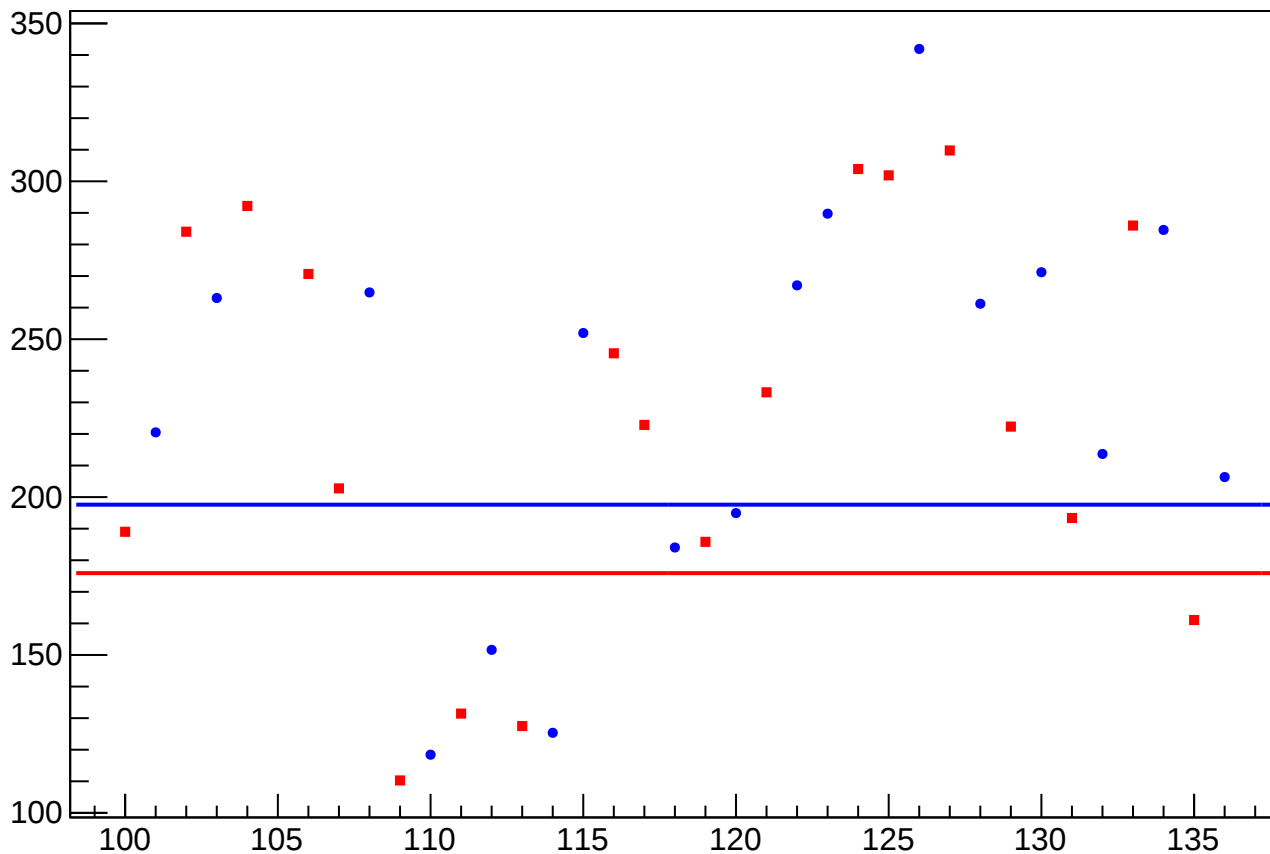
Right Out: -4.890+/-72.297  $\chi^2/\text{NDF}$ : 5.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

68.553+/-81.018  $\chi^2/\text{NDF}$ : 7.3/16

-4.890+/-72.297  $\chi^2/\text{NDF}$ : 5.9/18

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug



Right In: 197.603 $\pm$ 0.057  $\chi^2$ /NDF: 968827.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

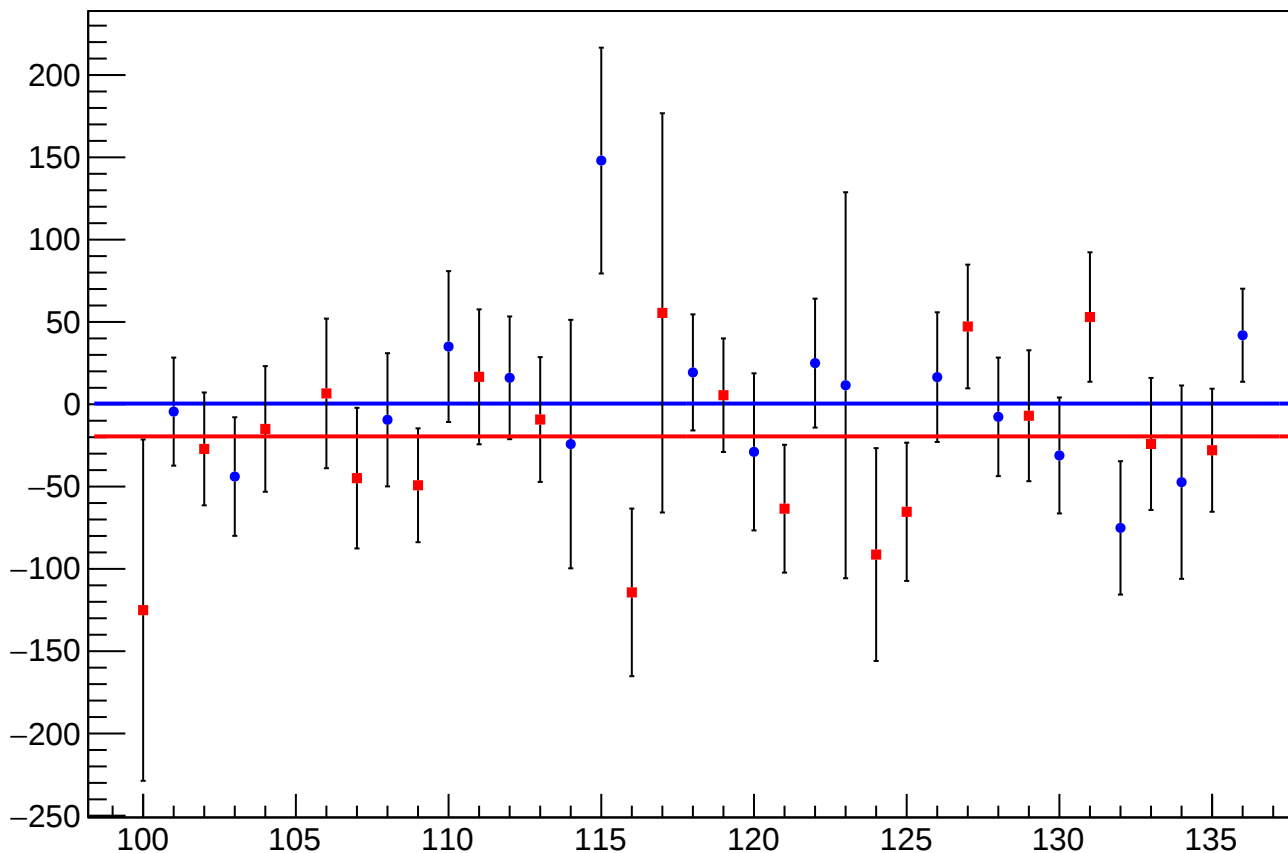
197.603 $\pm$ 0.057  $\chi^2$ /NDF: 968827.8/16

Right Out: 175.928 $\pm$ 0.051  $\chi^2$ /NDF: 1520108.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

175.928 $\pm$ 0.051  $\chi^2$ /NDF: 1520108.1/18

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: 0.427+/-9.884  $\chi^2/\text{NDF}$ : 15.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

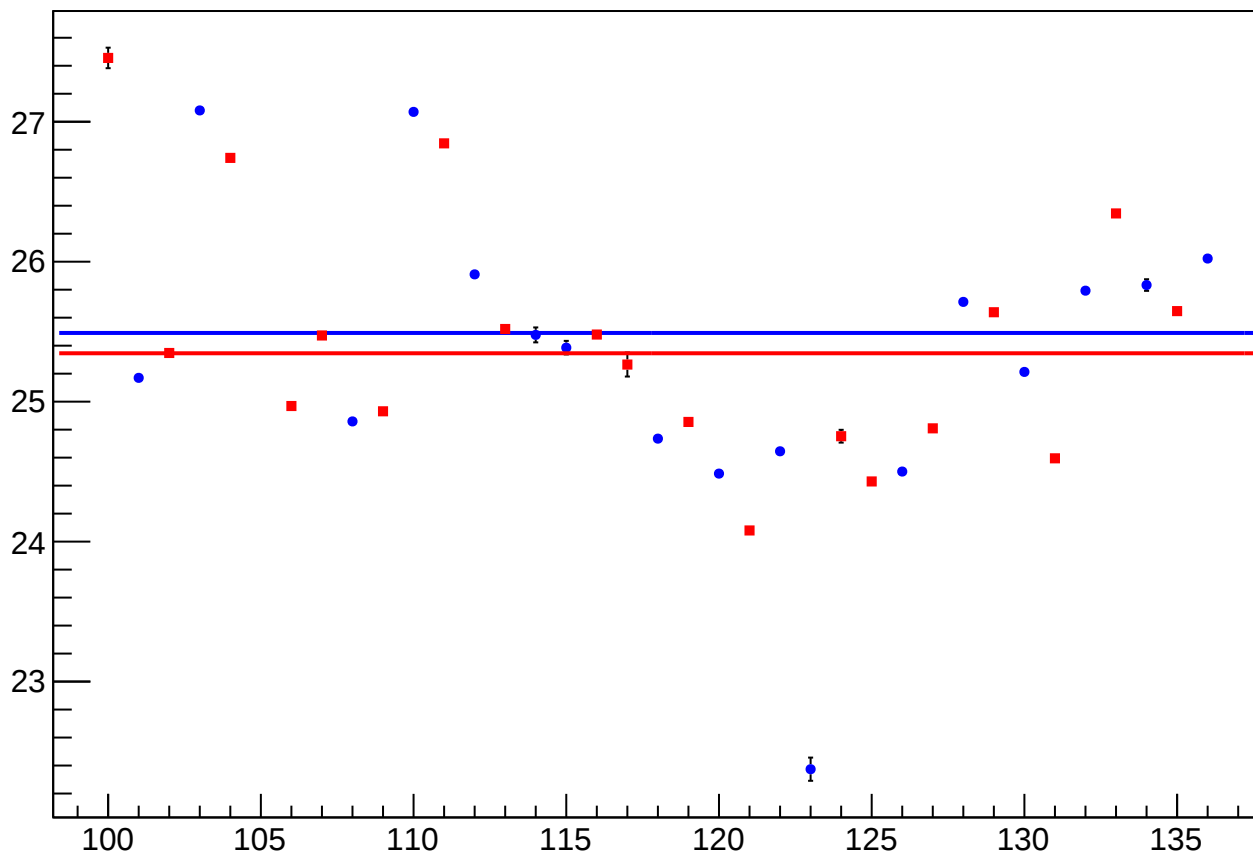
Right Out: -19.523+/-9.587  $\chi^2/\text{NDF}$ : 18.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.427+/-9.884  $\chi^2/\text{NDF}$ : 15.5/16

-19.523+/-9.587  $\chi^2/\text{NDF}$ : 18.2/18

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 25.491+/-0.007  $\chi^2/\text{NDF}$ : 13713.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

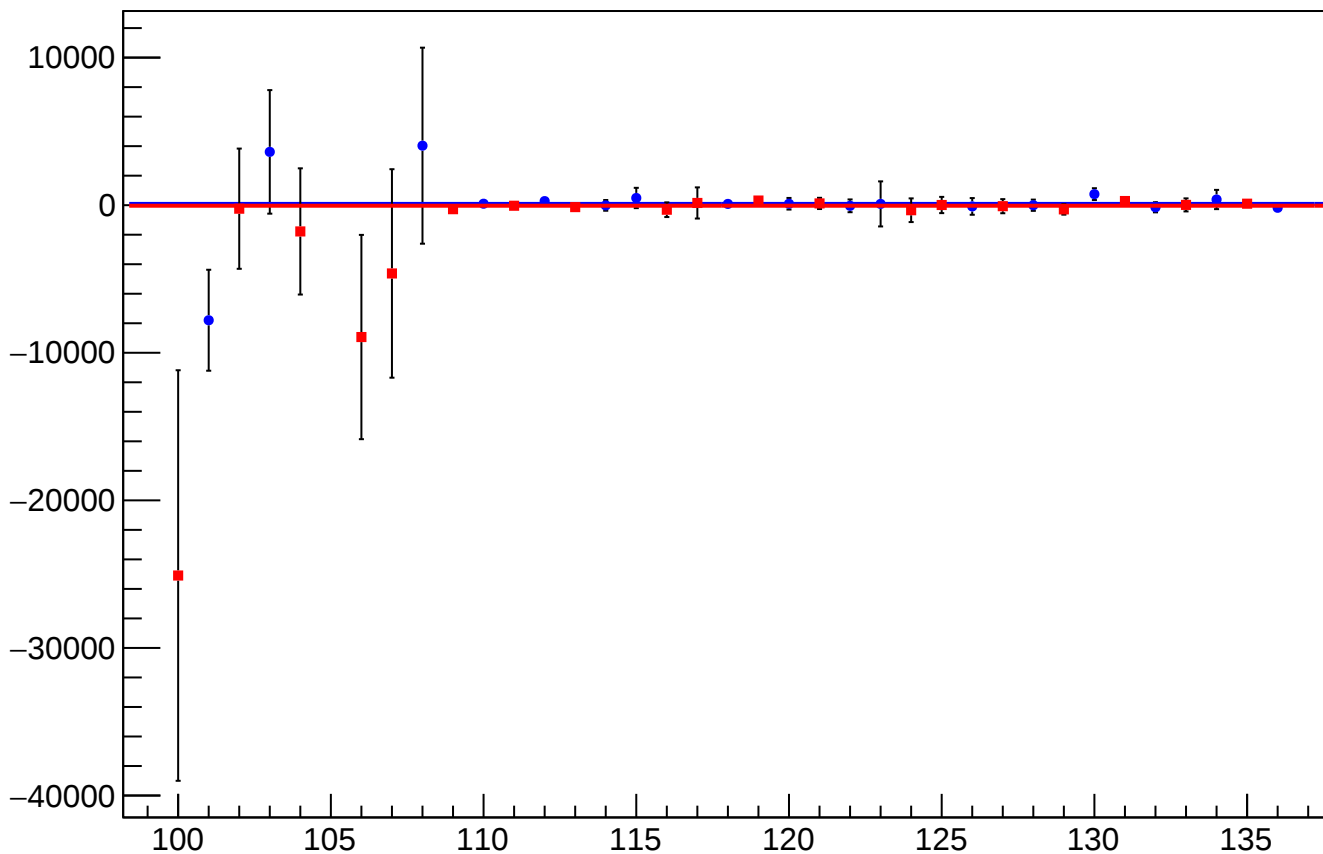
Right Out: 25.346+/-0.007  $\chi^2/\text{NDF}$ : 12950.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

25.491+/-0.007  $\chi^2/\text{NDF}$ : 13713.0/16

25.346+/-0.007  $\chi^2/\text{NDF}$ : 12950.9/18

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs Slug



Right In: 86.558+/-88.423  $\chi^2/\text{NDF}$ : 12.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

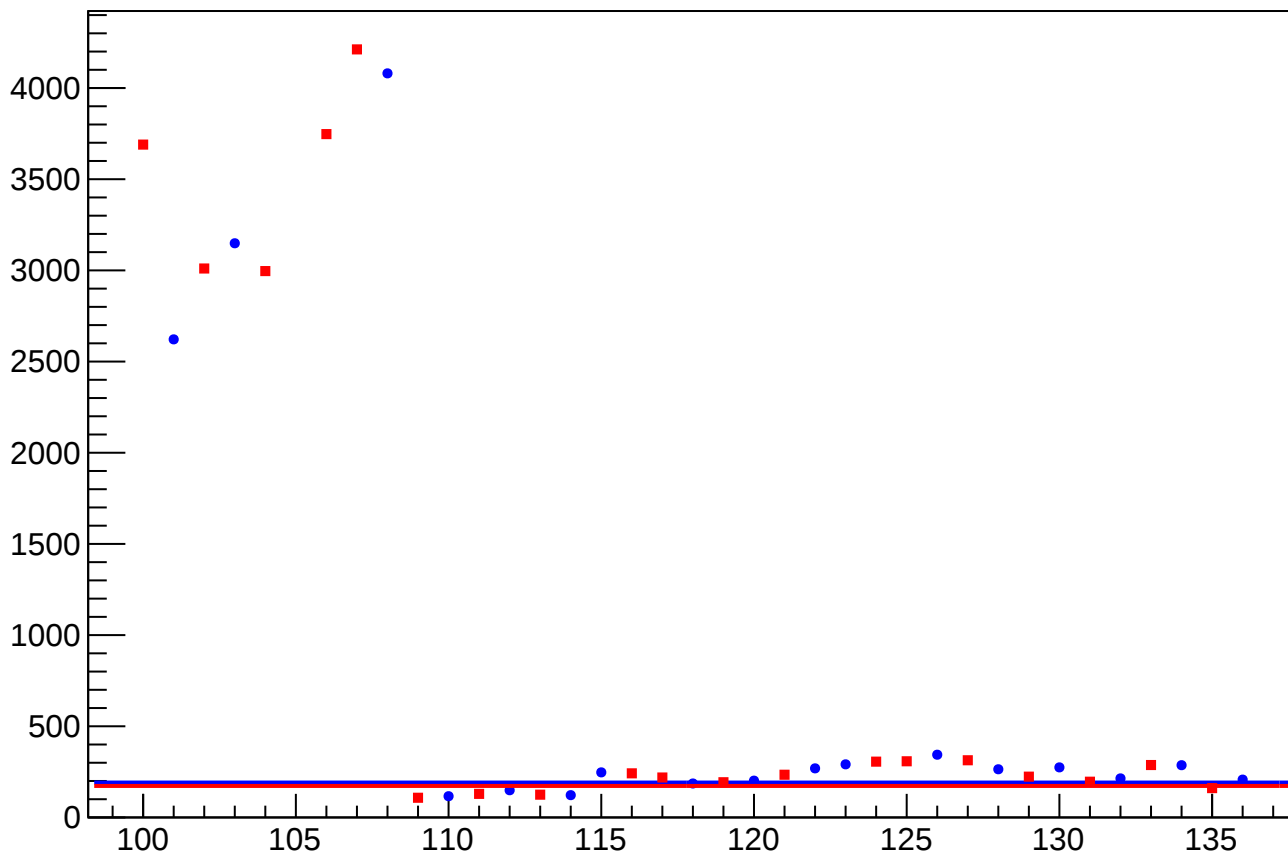
Right Out: -36.191+/-82.016  $\chi^2/\text{NDF}$ : 11.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

86.558+/-88.423  $\chi^2/\text{NDF}$ : 12.5/16

-36.191+/-82.016  $\chi^2/\text{NDF}$ : 11.0/18

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs Slug



Right In: 191.478+/-0.063  $\chi^2/\text{NDF}$ : 3573154.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

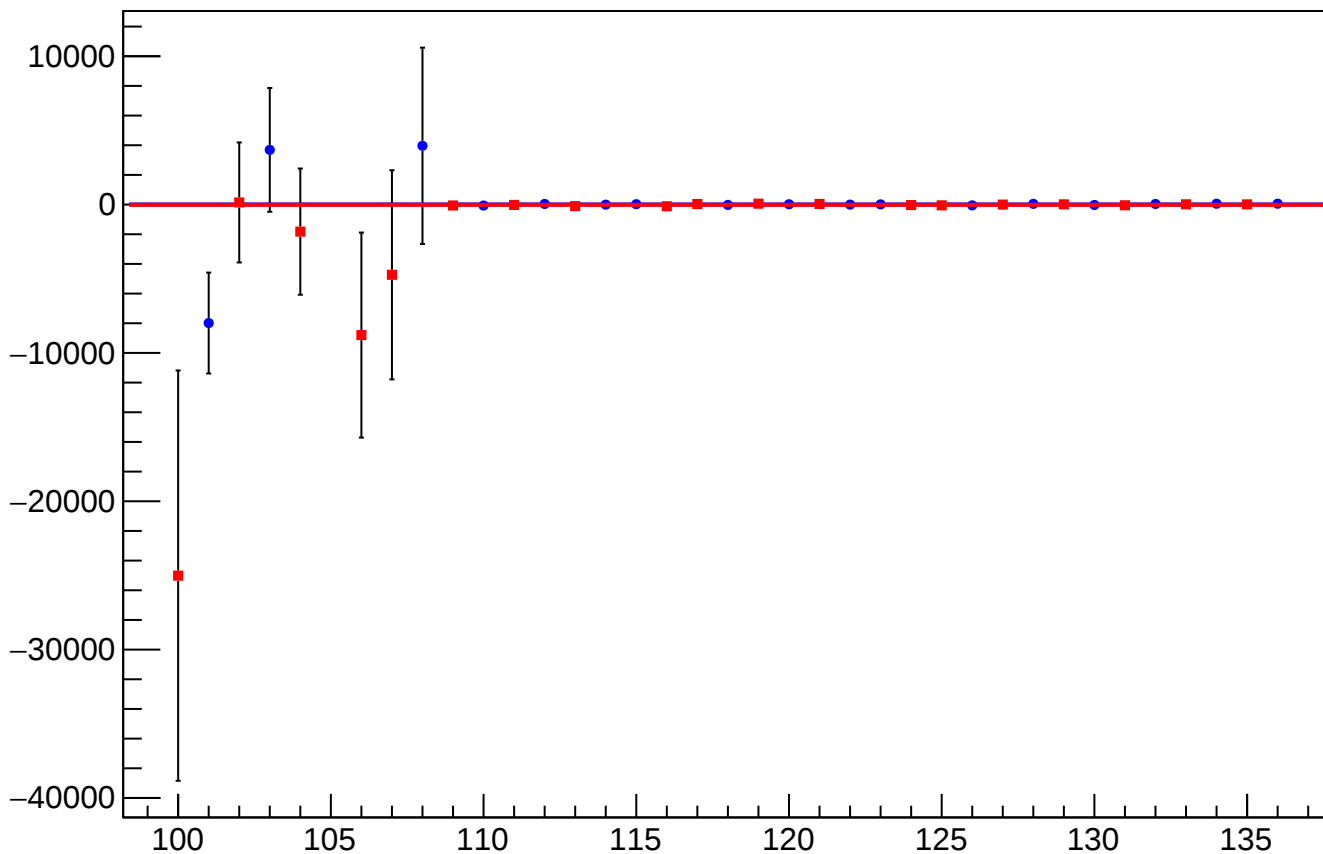
Right Out: 172.803+/-0.058  $\chi^2/\text{NDF}$ : 4205689.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

191.478+/-0.063  $\chi^2/\text{NDF}$ : 3573154.3/16

172.803+/-0.058  $\chi^2/\text{NDF}$ : 4205689.1/18

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs Slug



Right In: 10.286+/-12.282  $\chi^2/\text{NDF}$ : 18.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

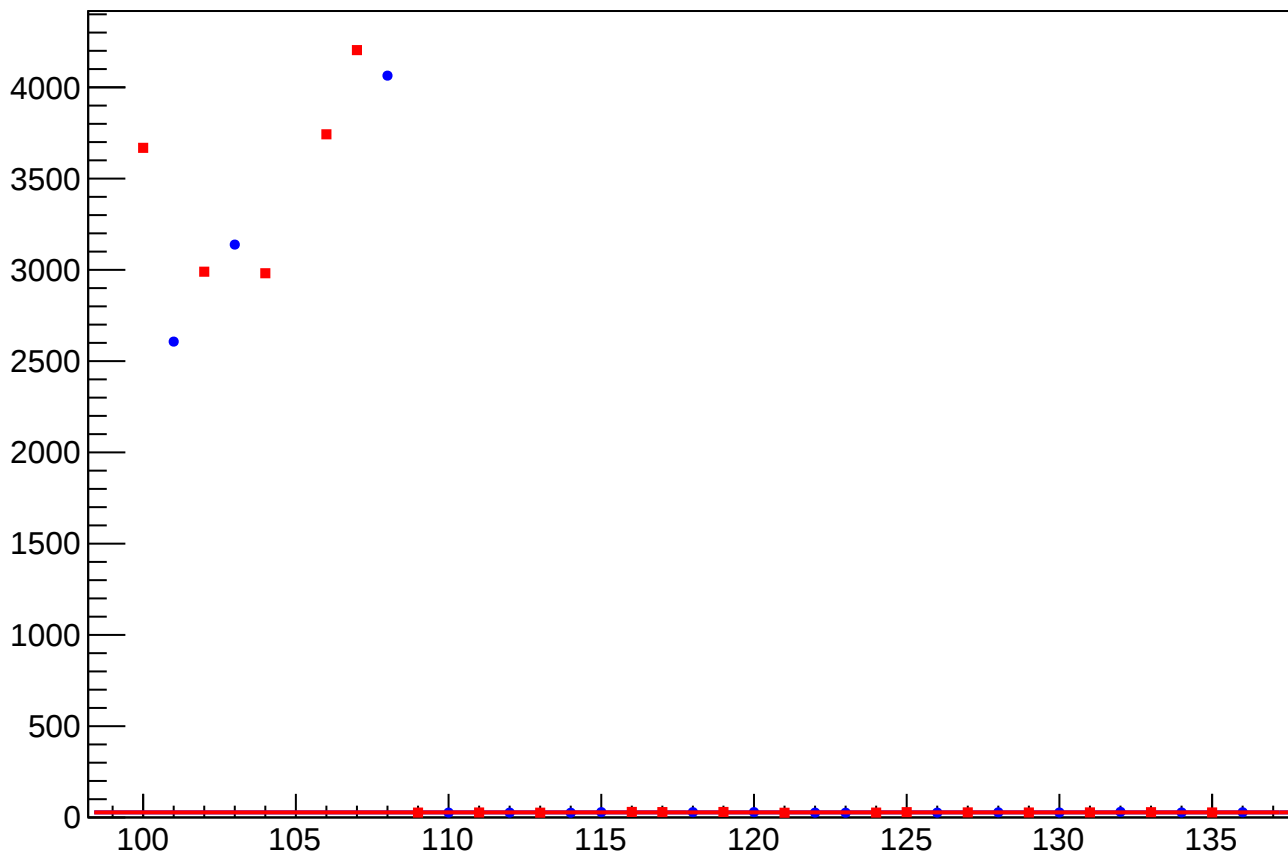
Right Out: -15.863+/-12.411  $\chi^2/\text{NDF}$ : 22.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.286+/-12.282  $\chi^2/\text{NDF}$ : 18.4/16

-15.863+/-12.411  $\chi^2/\text{NDF}$ : 22.6/18

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs Slug



Right In: 27.855+/-0.009  $\chi^2/\text{NDF}$ : 3027666.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

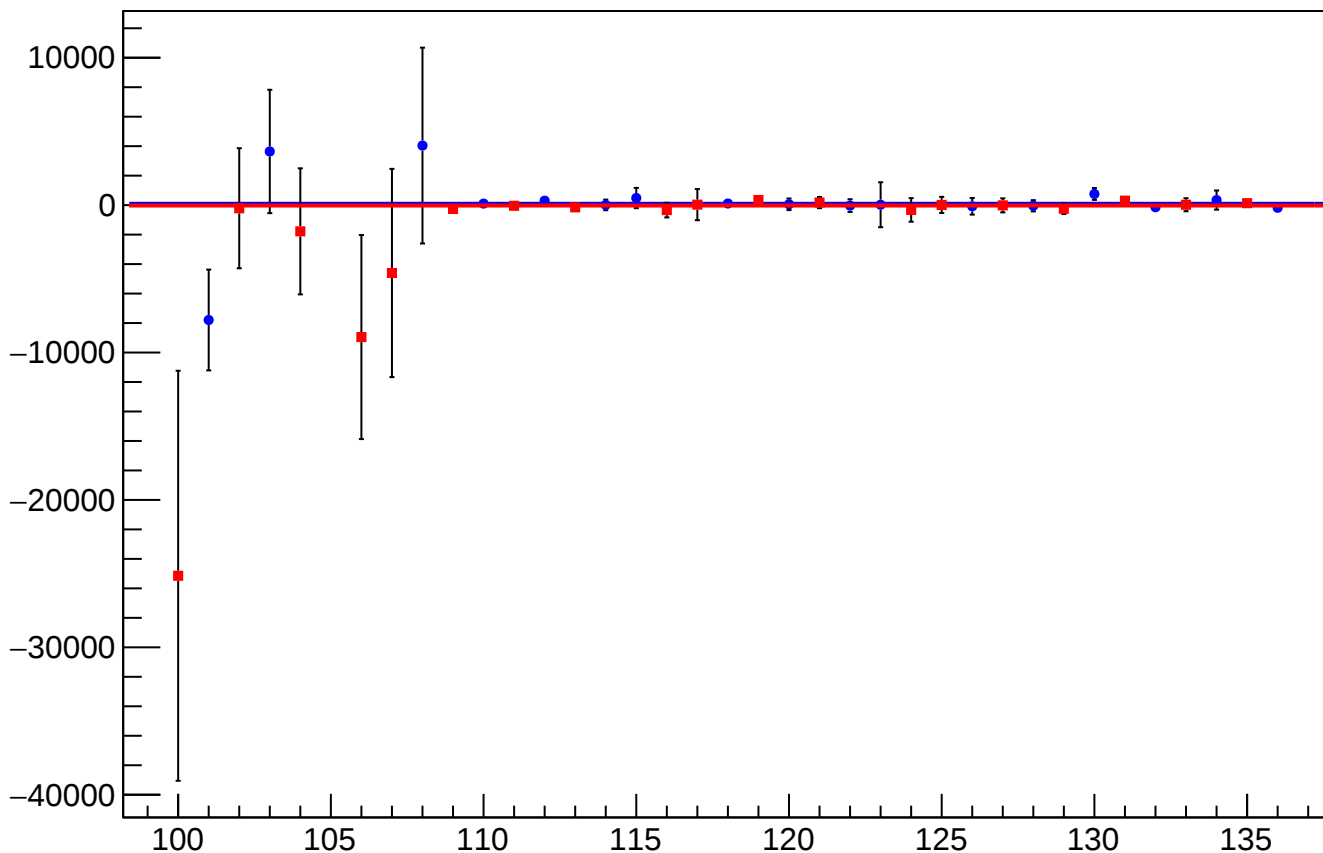
Right Out: 27.699+/-0.009  $\chi^2/\text{NDF}$ : 3477108.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

27.855+/-0.009  $\chi^2/\text{NDF}$ : 3027666.8/16

27.699+/-0.009  $\chi^2/\text{NDF}$ : 3477108.4/18

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs Slug



Right In: 90.773 $\pm$ 88.149  $\chi^2/\text{NDF}$ : 12.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

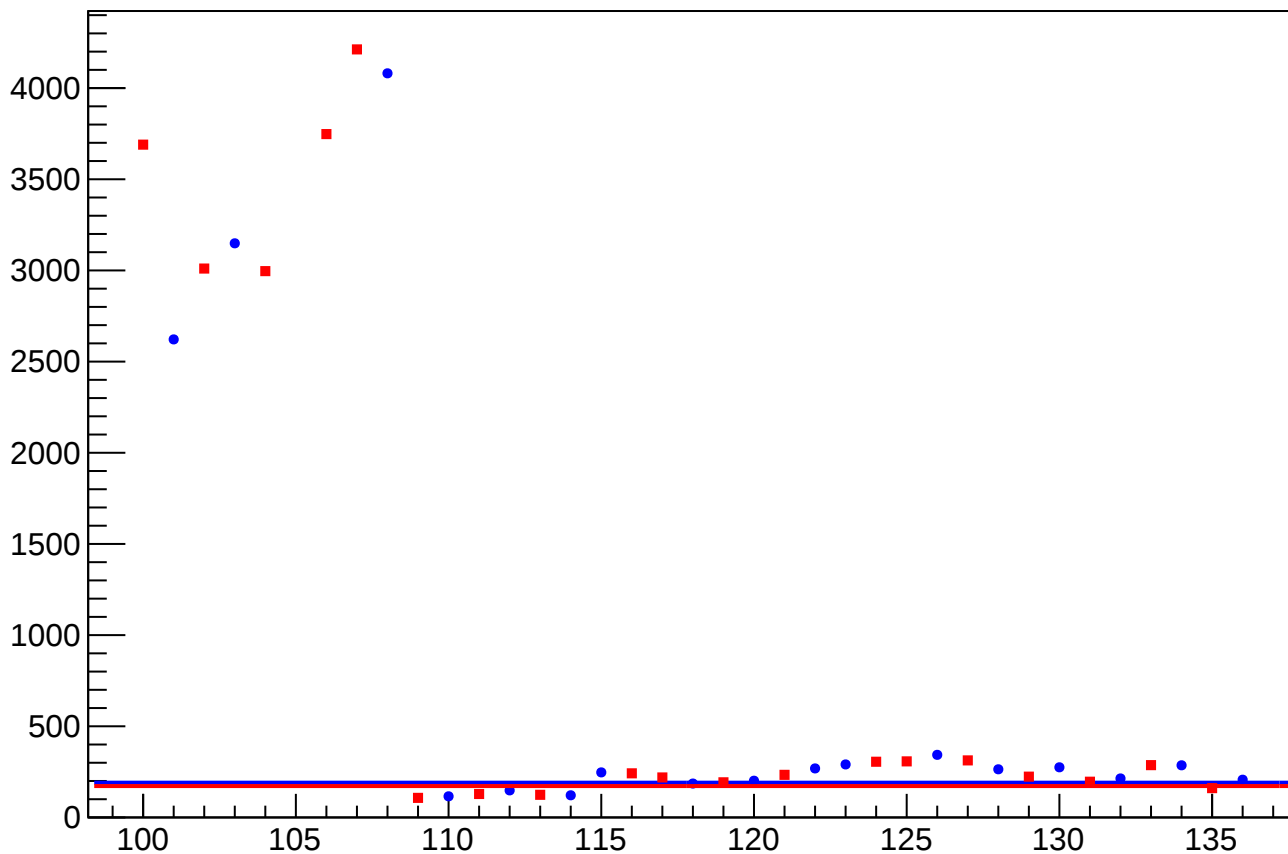
Right Out: -27.313 $\pm$ 81.752  $\chi^2/\text{NDF}$ : 11.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

90.773 $\pm$ 88.149  $\chi^2/\text{NDF}$ : 12.8/16

-27.313 $\pm$ 81.752  $\chi^2/\text{NDF}$ : 11.7/18

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 190.770+/-0.062  $\chi^2/\text{NDF}$ : 3585034.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

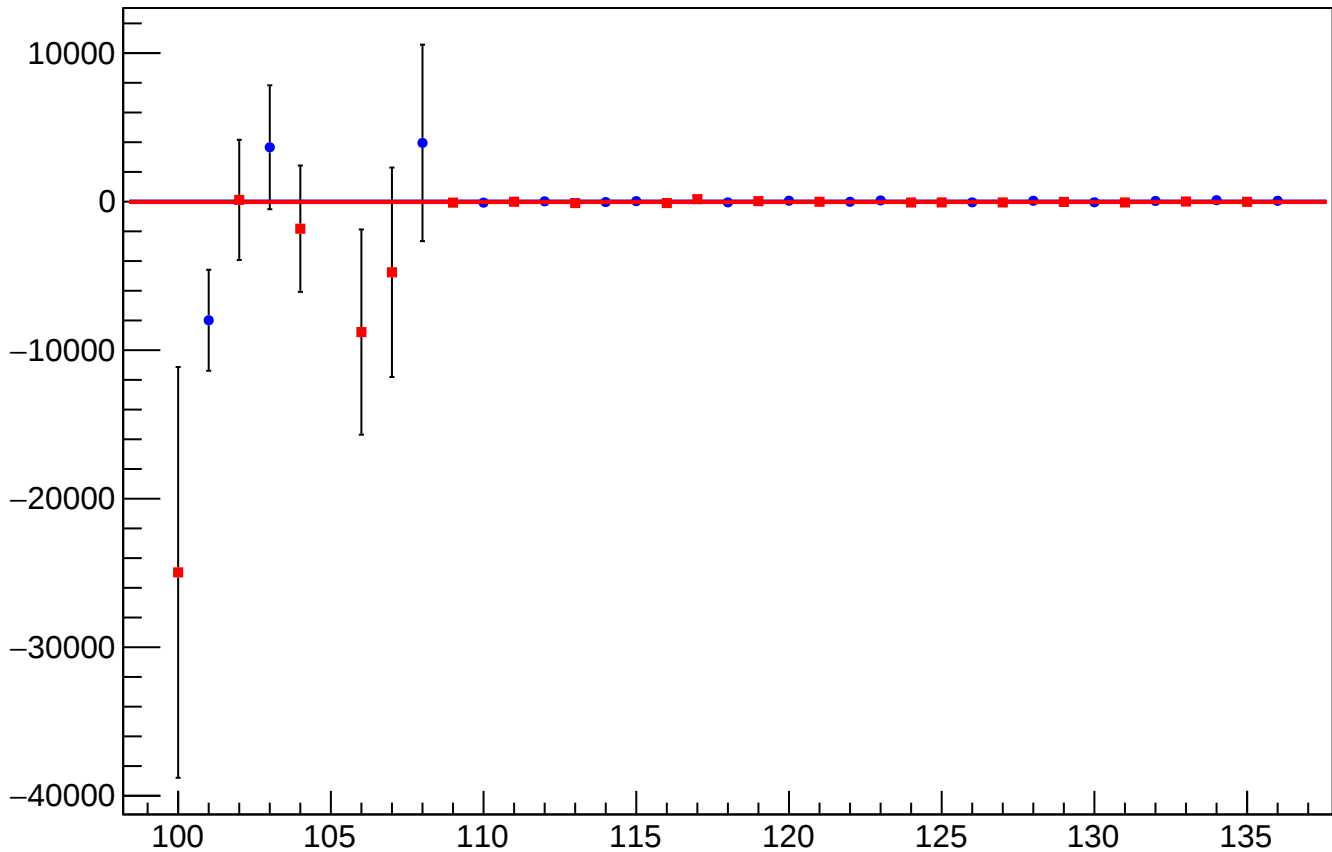
Right Out: 172.135+/-0.058  $\chi^2/\text{NDF}$ : 4216958.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

190.770+/-0.062  $\chi^2/\text{NDF}$ : 3585034.0/16

172.135+/-0.058  $\chi^2/\text{NDF}$ : 4216958.2/18

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: 8.600 $\pm$ 12.368  $\chi^2$ /NDF: 23.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

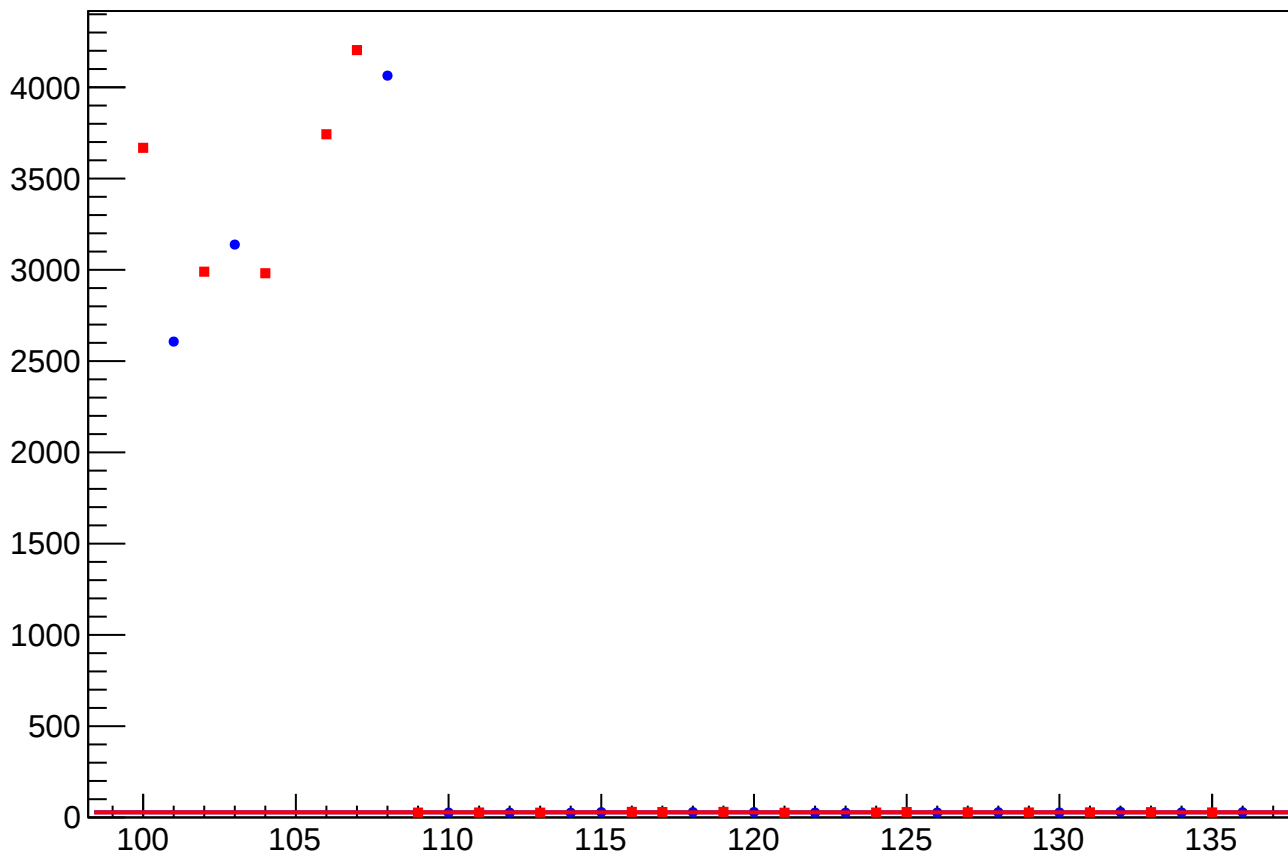
Right Out: -31.092 $\pm$ 12.515  $\chi^2$ /NDF: 17.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

8.600 $\pm$ 12.368  $\chi^2$ /NDF: 23.2/16

-31.092 $\pm$ 12.515  $\chi^2$ /NDF: 17.0/18

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 28.044+/-0.009  $\chi^2$ /NDF: 3027898.7/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

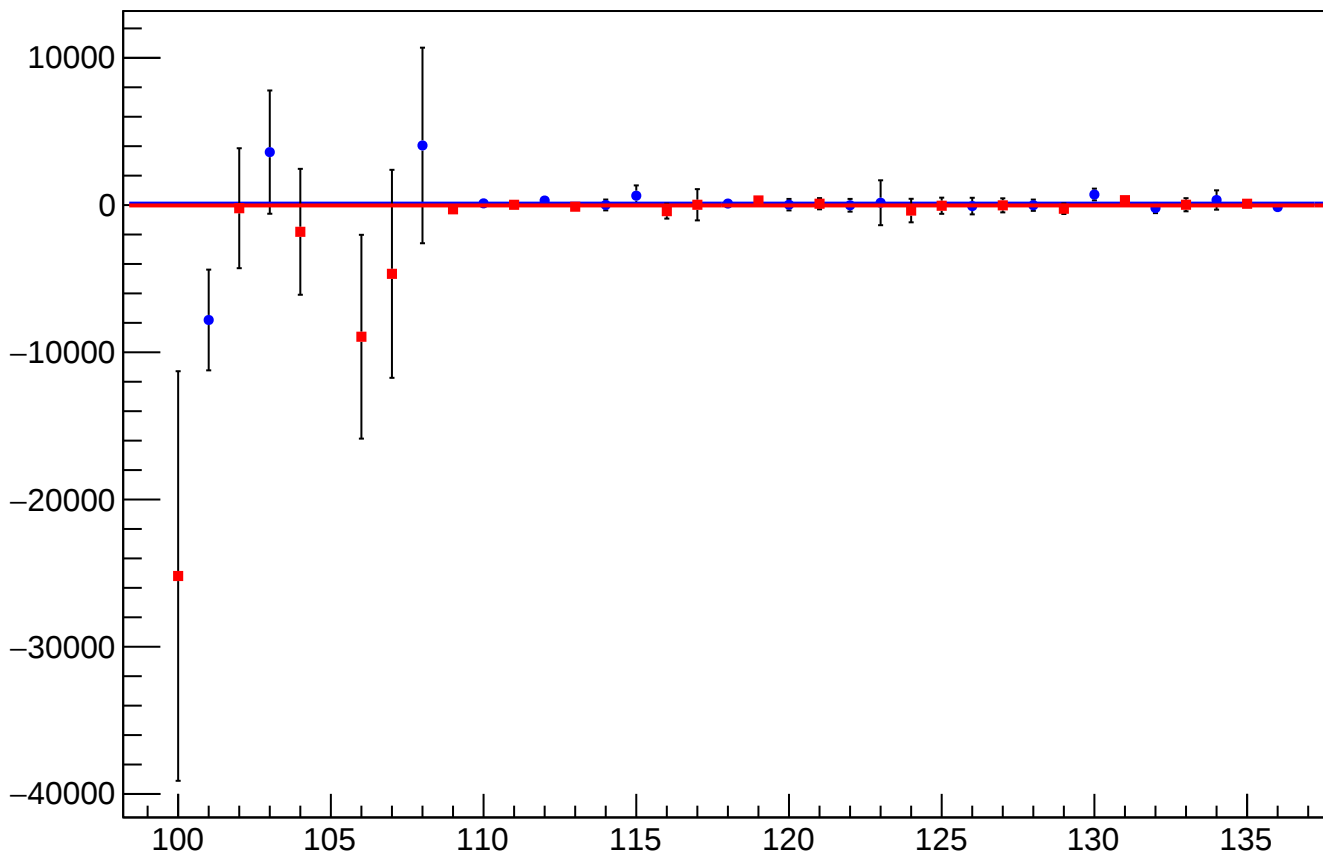
Right Out: 27.924+/-0.009  $\chi^2$ /NDF: 3479936.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

28.044+/-0.009  $\chi^2$ /NDF: 3027898.7/16

27.924+/-0.009  $\chi^2$ /NDF: 3479936.0/18

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs Slug



Right In: 98.142+/-89.203  $\chi^2/\text{NDF}$ : 12.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

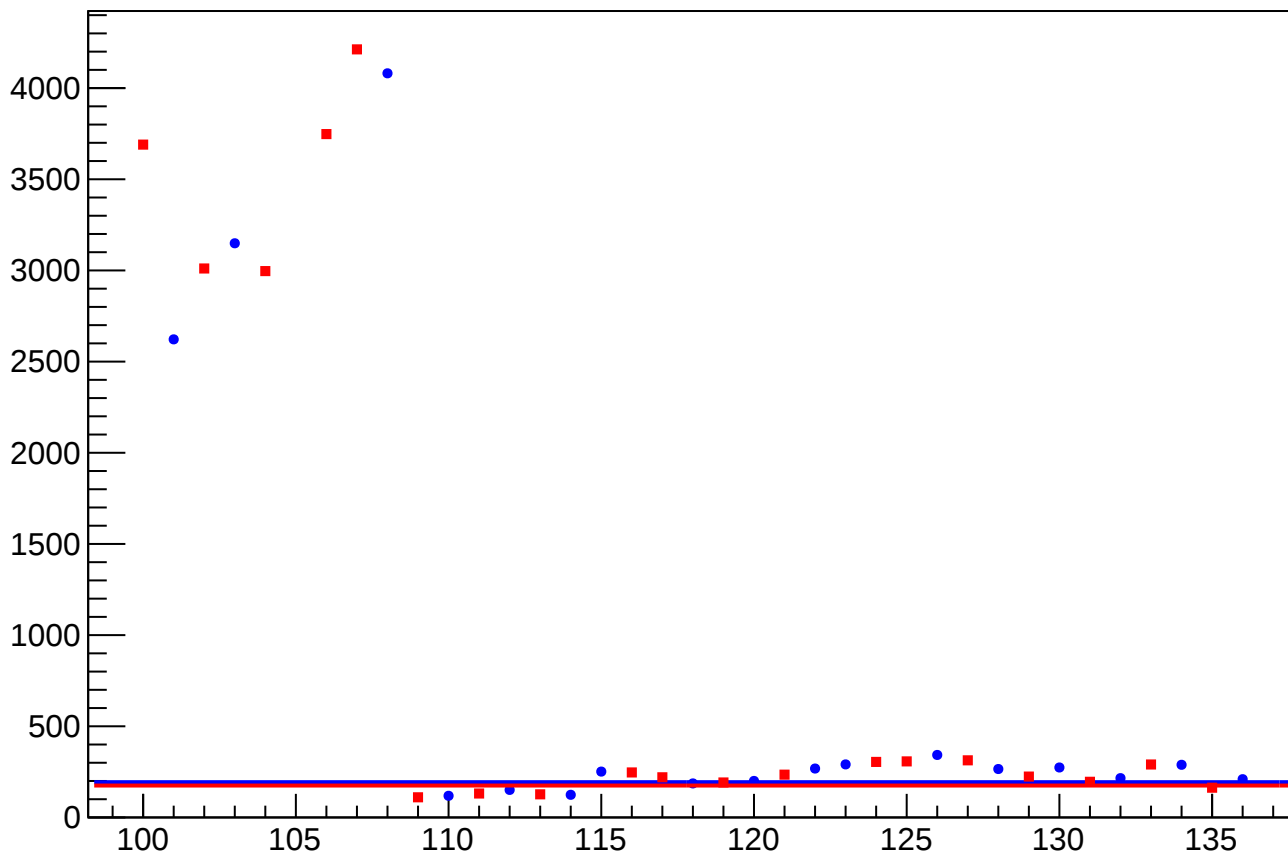
Right Out: -24.538+/-82.843  $\chi^2/\text{NDF}$ : 11.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

98.142+/-89.203  $\chi^2/\text{NDF}$ : 12.5/16

-24.538+/-82.843  $\chi^2/\text{NDF}$ : 11.5/18

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs Slug



Right In: 193.516+/-0.063  $\chi^2/\text{NDF}$ : 3536947.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

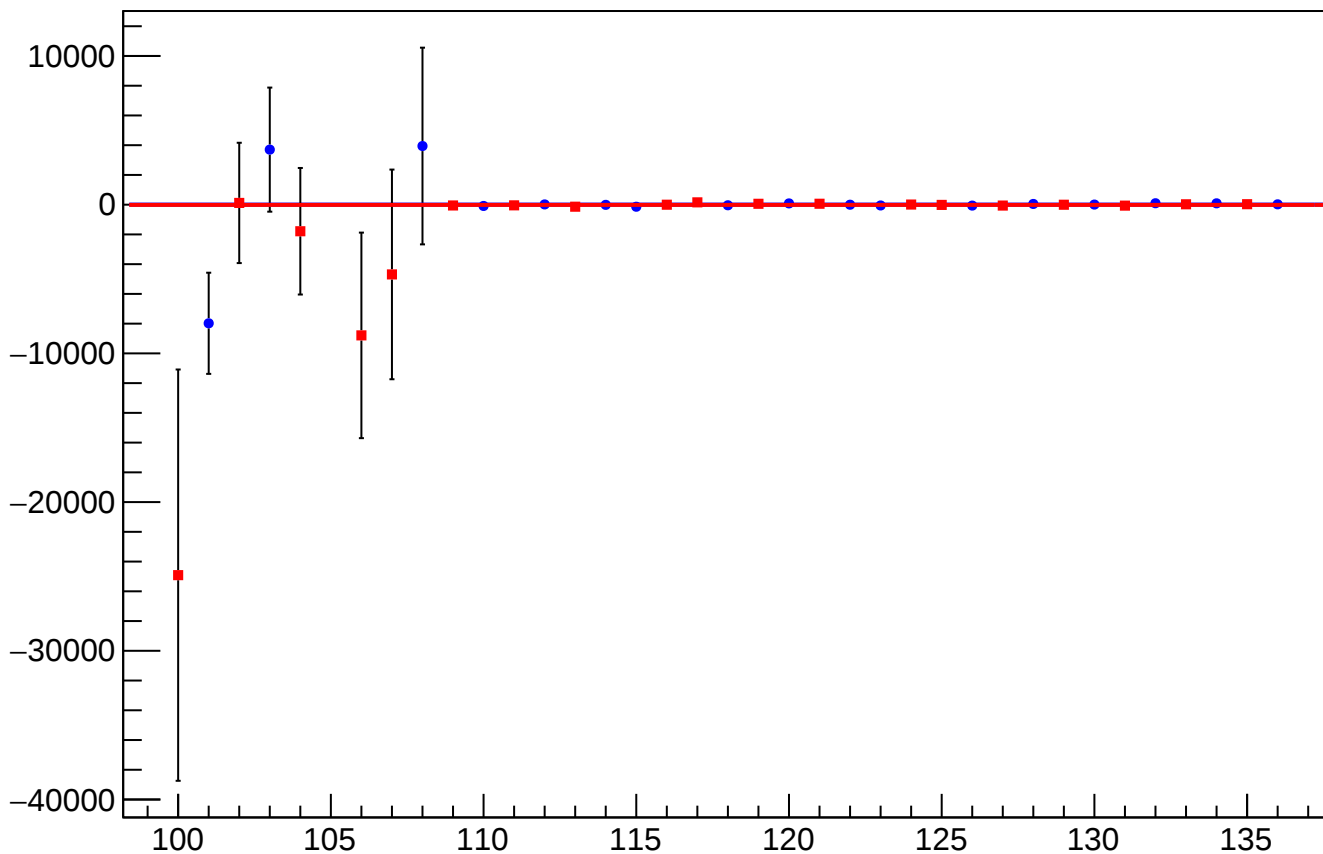
Right Out: 175.010+/-0.059  $\chi^2/\text{NDF}$ : 4163709.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

193.516+/-0.063  $\chi^2/\text{NDF}$ : 3536947.8/16

175.010+/-0.059  $\chi^2/\text{NDF}$ : 4163709.3/18

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: 5.565+/-15.052  $\chi^2$ /NDF: 20.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

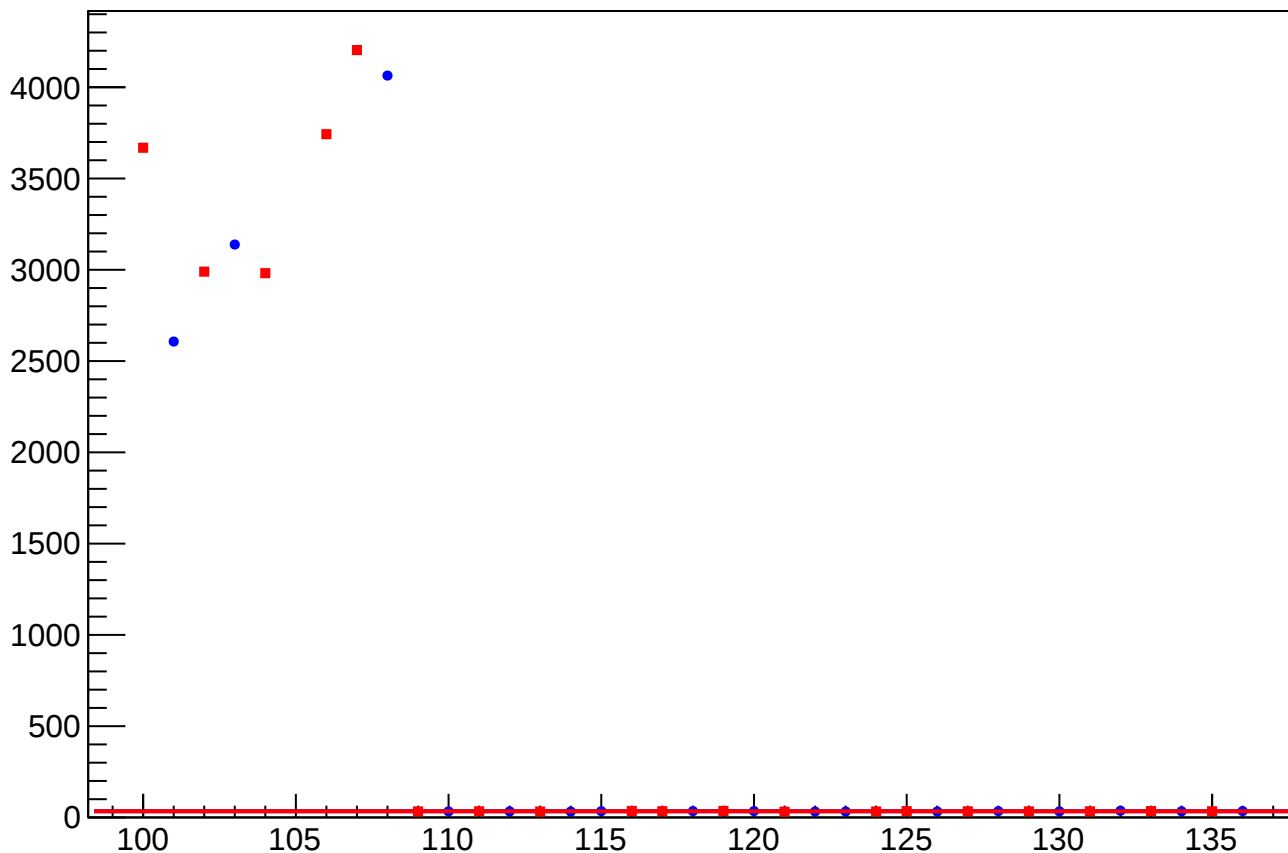
Right Out: -14.320+/-15.158  $\chi^2$ /NDF: 21.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

5.565+/-15.052  $\chi^2$ /NDF: 20.4/16

-14.320+/-15.158  $\chi^2$ /NDF: 21.4/18

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 34.168+/-0.011  $\chi^2$ /NDF: 3006512.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

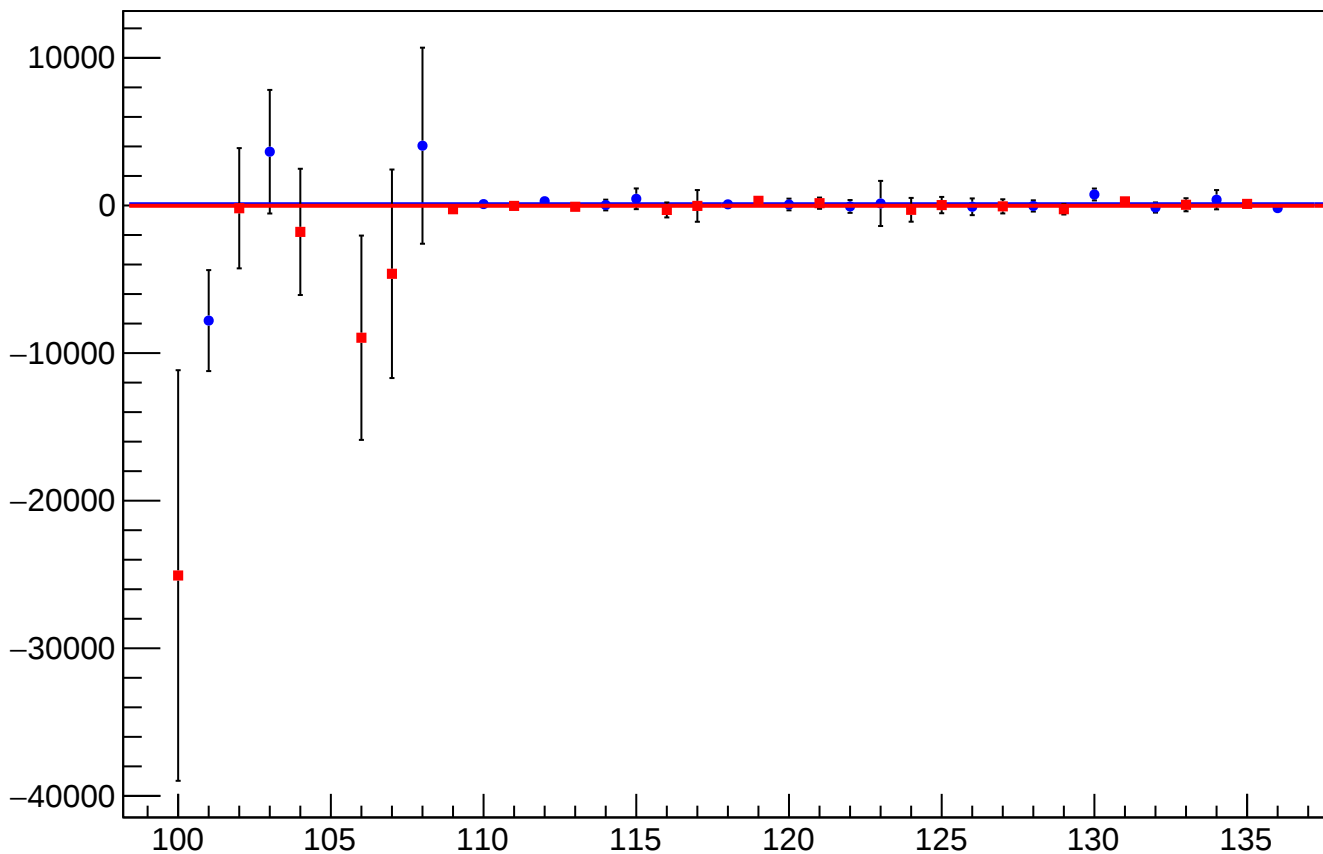
Right Out: 33.890+/-0.011  $\chi^2$ /NDF: 3451752.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

34.168+/-0.011  $\chi^2$ /NDF: 3006512.8/16

33.890+/-0.011  $\chi^2$ /NDF: 3451752.1/18

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug



Right In: 84.504+/-88.746  $\chi^2/\text{NDF}$ : 12.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

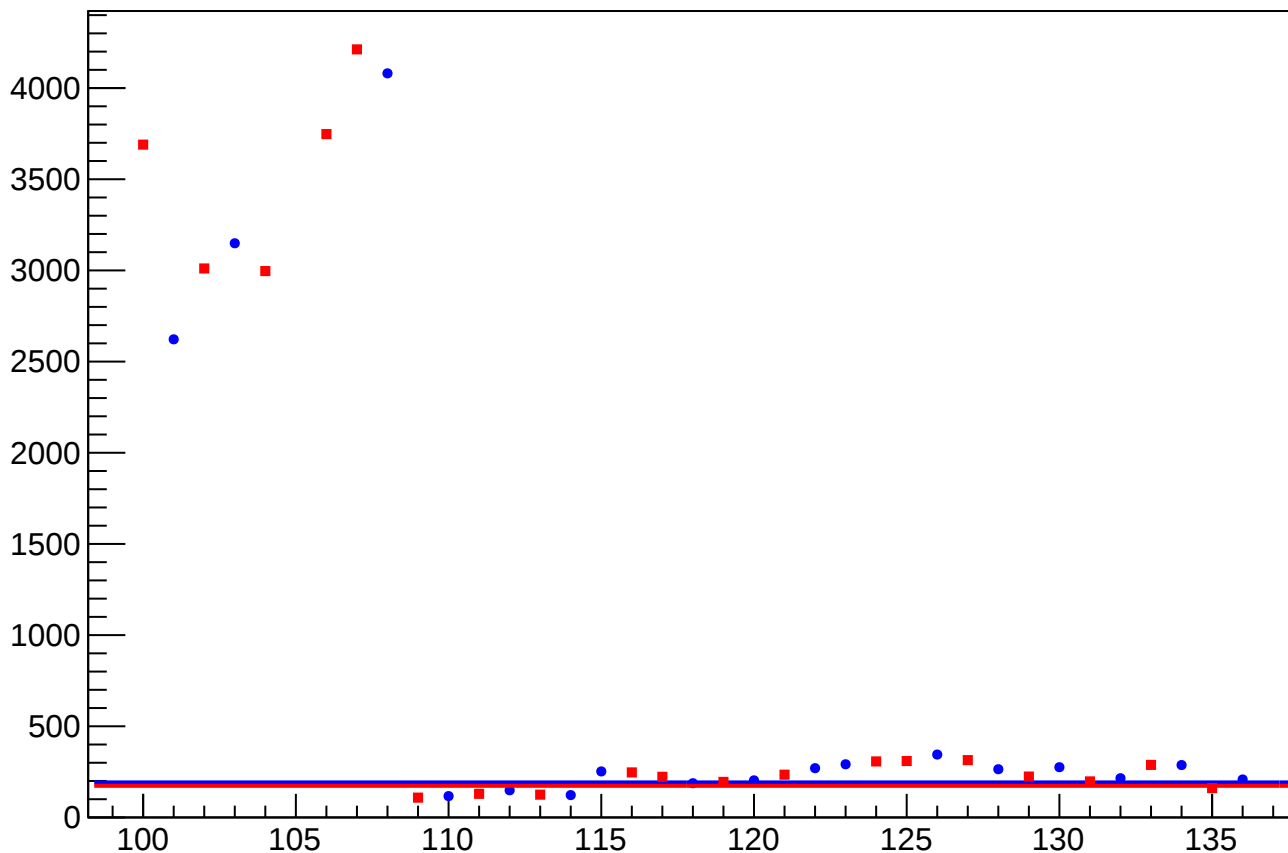
Right Out: -19.478+/-82.338  $\chi^2/\text{NDF}$ : 10.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

84.504+/-88.746  $\chi^2/\text{NDF}$ : 12.5/16

-19.478+/-82.338  $\chi^2/\text{NDF}$ : 10.5/18

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug



Right In: 192.177+/-0.063  $\chi^2/\text{NDF}$ : 3574617.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

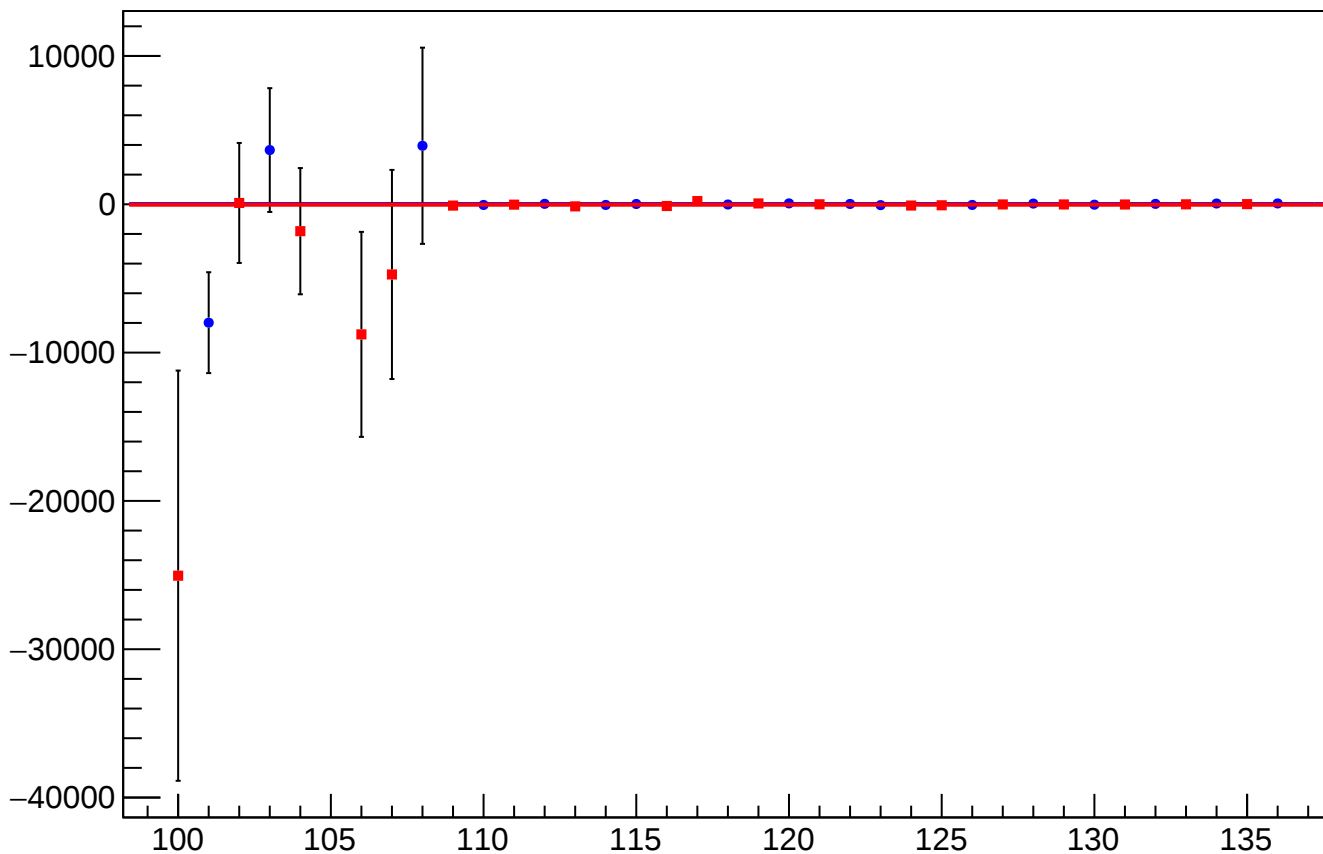
Right Out: 173.480+/-0.058  $\chi^2/\text{NDF}$ : 4210378.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

192.177+/-0.063  $\chi^2/\text{NDF}$ : 3574617.3/16

173.480+/-0.058  $\chi^2/\text{NDF}$ : 4210378.3/18

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: 12.751+/-13.723  $\chi^2$ /NDF: 14.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

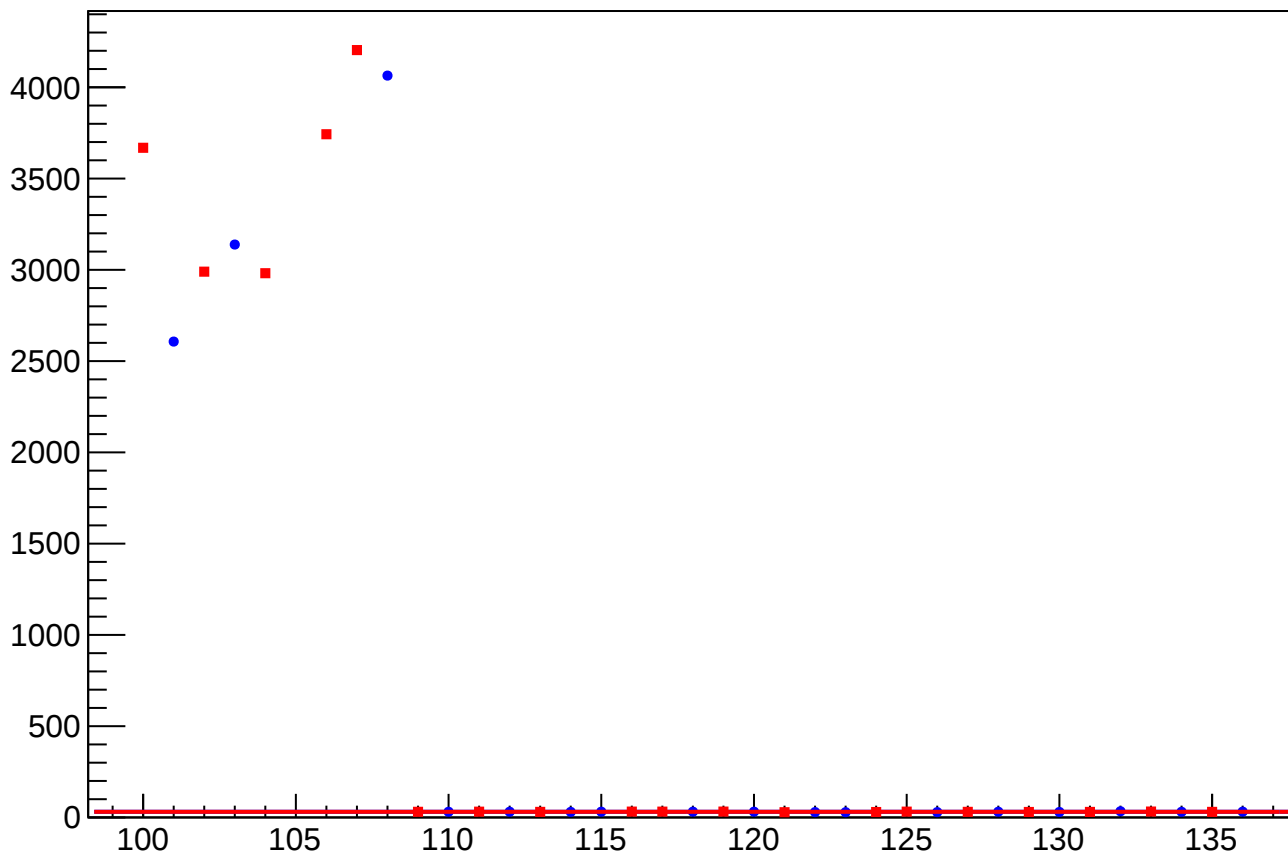
Right Out: -27.649+/-13.860  $\chi^2$ /NDF: 23.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

12.751+/-13.723  $\chi^2$ /NDF: 14.6/16

-27.649+/-13.860  $\chi^2$ /NDF: 23.6/18

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 31.153+/-0.010  $\chi^2/\text{NDF}$ : 3014515.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

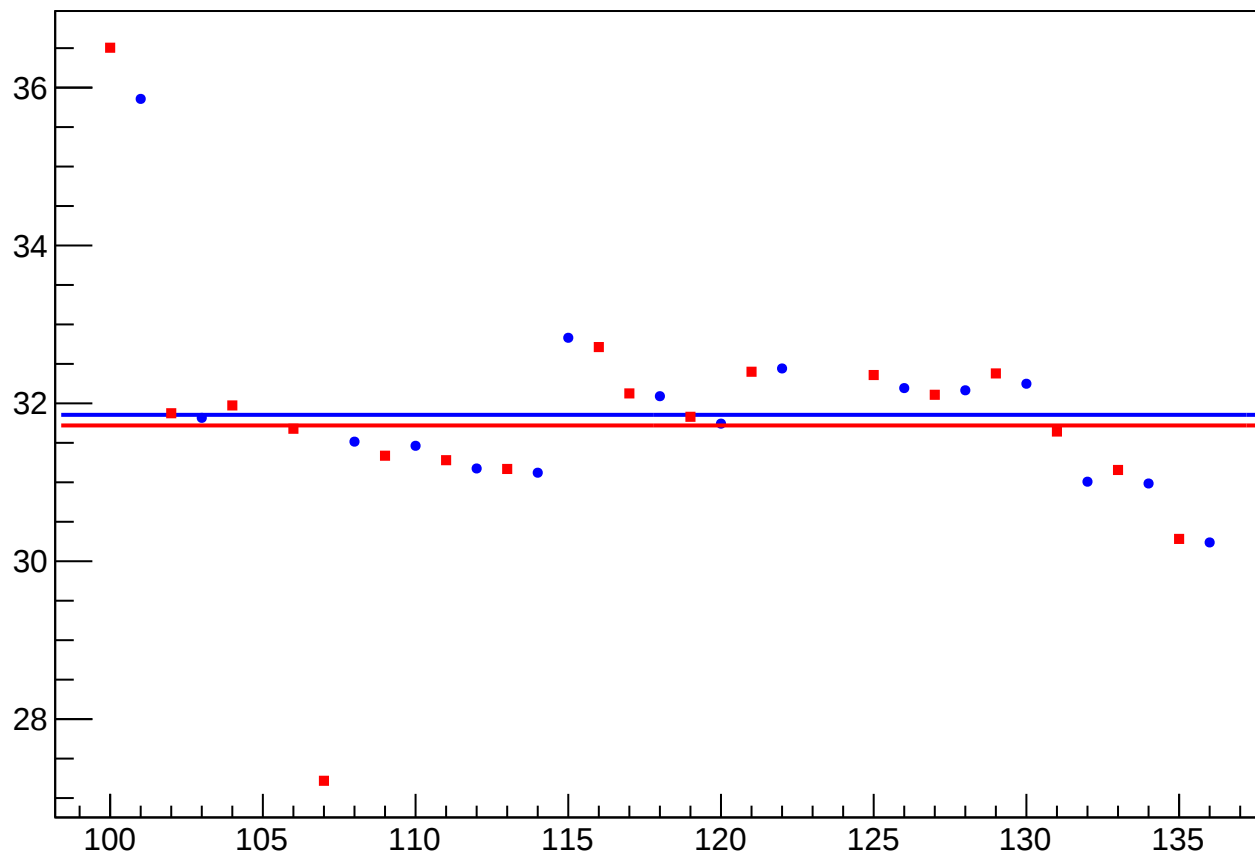
Right Out: 30.969+/-0.010  $\chi^2/\text{NDF}$ : 3458997.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

31.153+/-0.010  $\chi^2/\text{NDF}$ : 3014515.0/16

30.969+/-0.010  $\chi^2/\text{NDF}$ : 3458997.9/18

# yield\_usl\_mean vs Slug



Right In: 31.855+/-0.000  $\chi^2/\text{NDF}$ : 1570522165.5/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

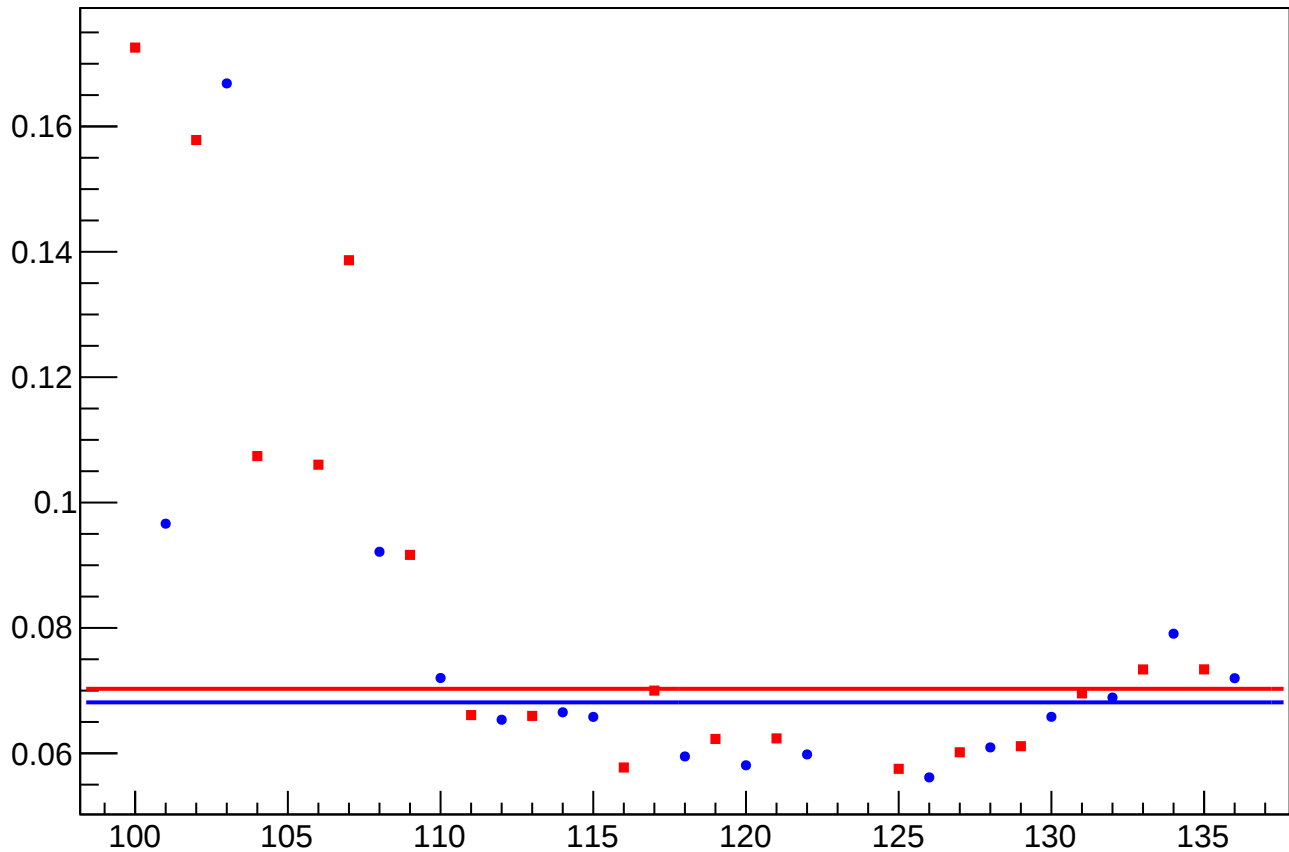
Right Out: 31.720+/-0.000  $\chi^2/\text{NDF}$ : 835767951.2/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

31.855+/-0.000  $\chi^2/\text{NDF}$ : 1570522165.5/15

31.720+/-0.000  $\chi^2/\text{NDF}$ : 835767951.2/17

# yield\_usl\_rms vs Slug



Right In: 0.068+/-0.000  $\chi^2/\text{NDF}$ : 629767.4/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

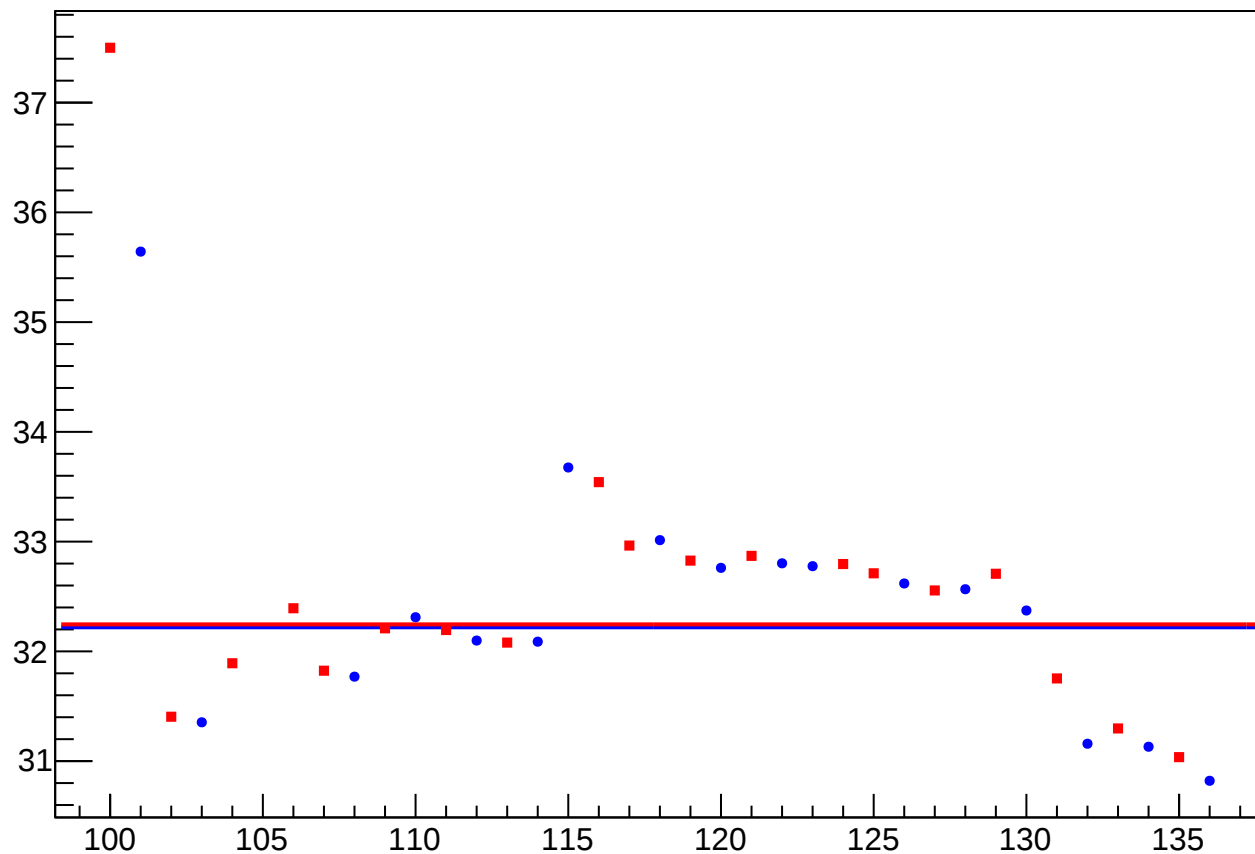
Right Out: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 840558.7/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.068+/-0.000  $\chi^2/\text{NDF}$ : 629767.4/15

0.070+/-0.000  $\chi^2/\text{NDF}$ : 840558.7/17

# yield\_usr\_mean vs Slug



Right In: 32.220+/-0.000  $\chi^2/\text{NDF}$ : 1013864543.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

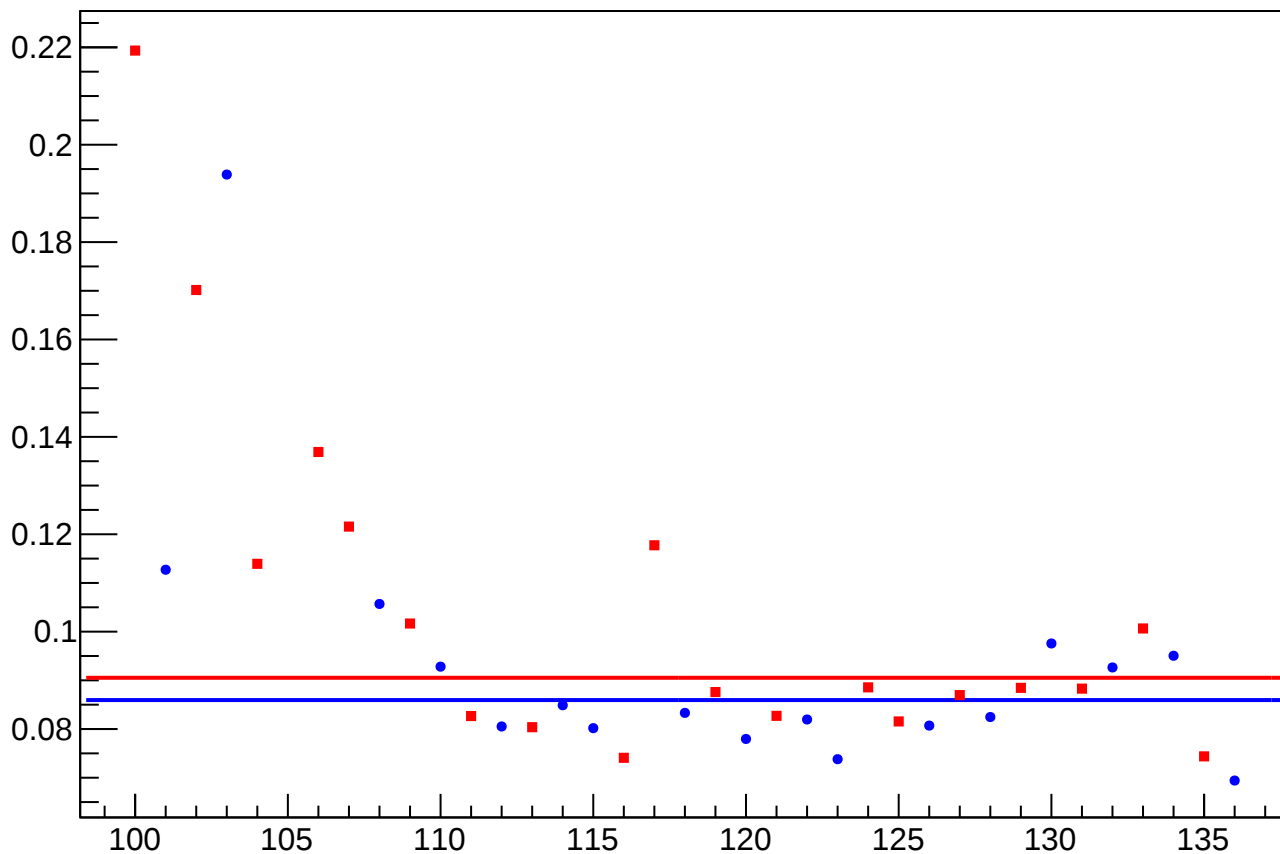
Right Out: 32.246+/-0.000  $\chi^2/\text{NDF}$ : 359023315.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

32.220+/-0.000  $\chi^2/\text{NDF}$ : 1013864543.3/16

32.246+/-0.000  $\chi^2/\text{NDF}$ : 359023315.8/18

# yield\_usr\_rms vs Slug



Right In: 0.086+/-0.000  $\chi^2/\text{NDF}$ : 553280.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

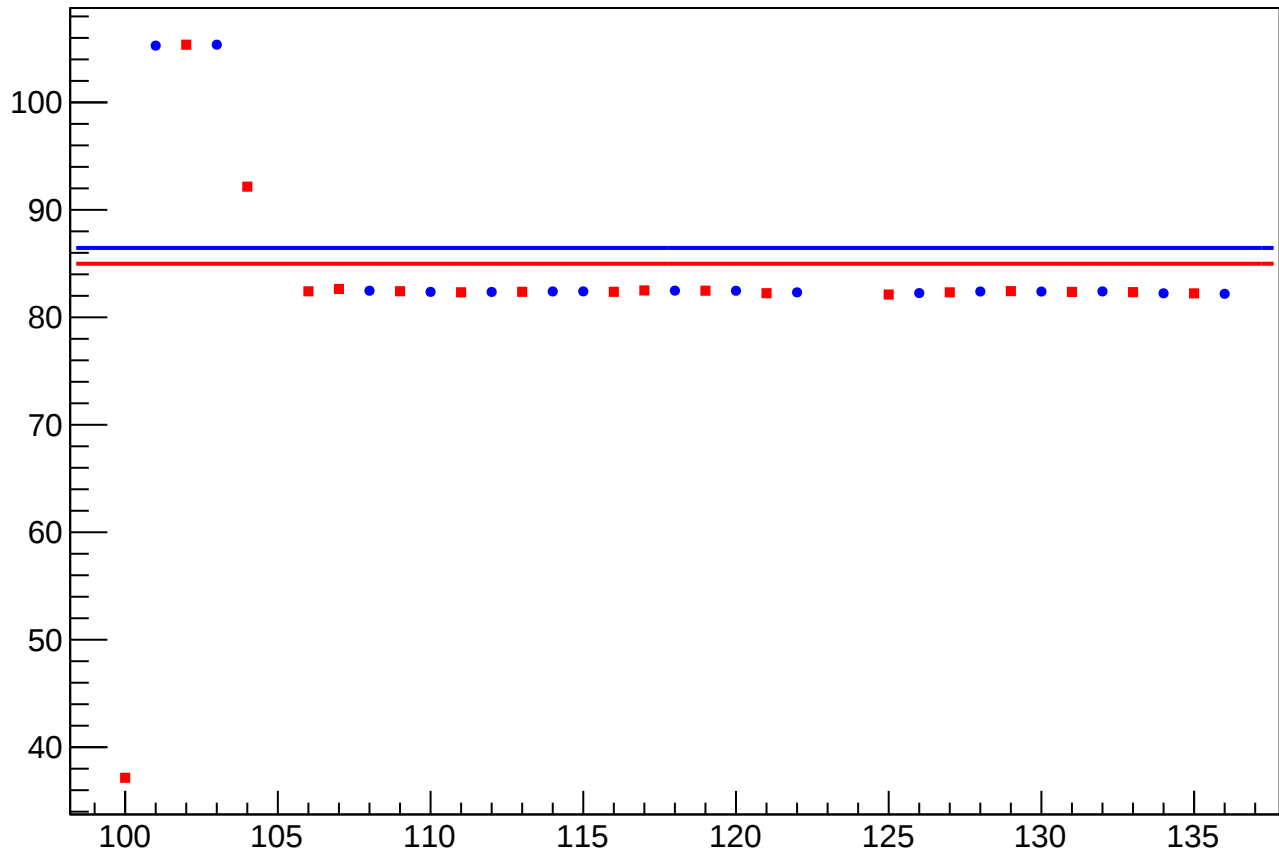
Right Out: 0.091+/-0.000  $\chi^2/\text{NDF}$ : 516445.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.086+/-0.000  $\chi^2/\text{NDF}$ : 553280.3/16

0.091+/-0.000  $\chi^2/\text{NDF}$ : 516445.6/18

yield\_dsl\_mean vs Slug



Right In: 86.457+/-0.000  $\chi^2/\text{NDF}$ : 291421048436.2/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

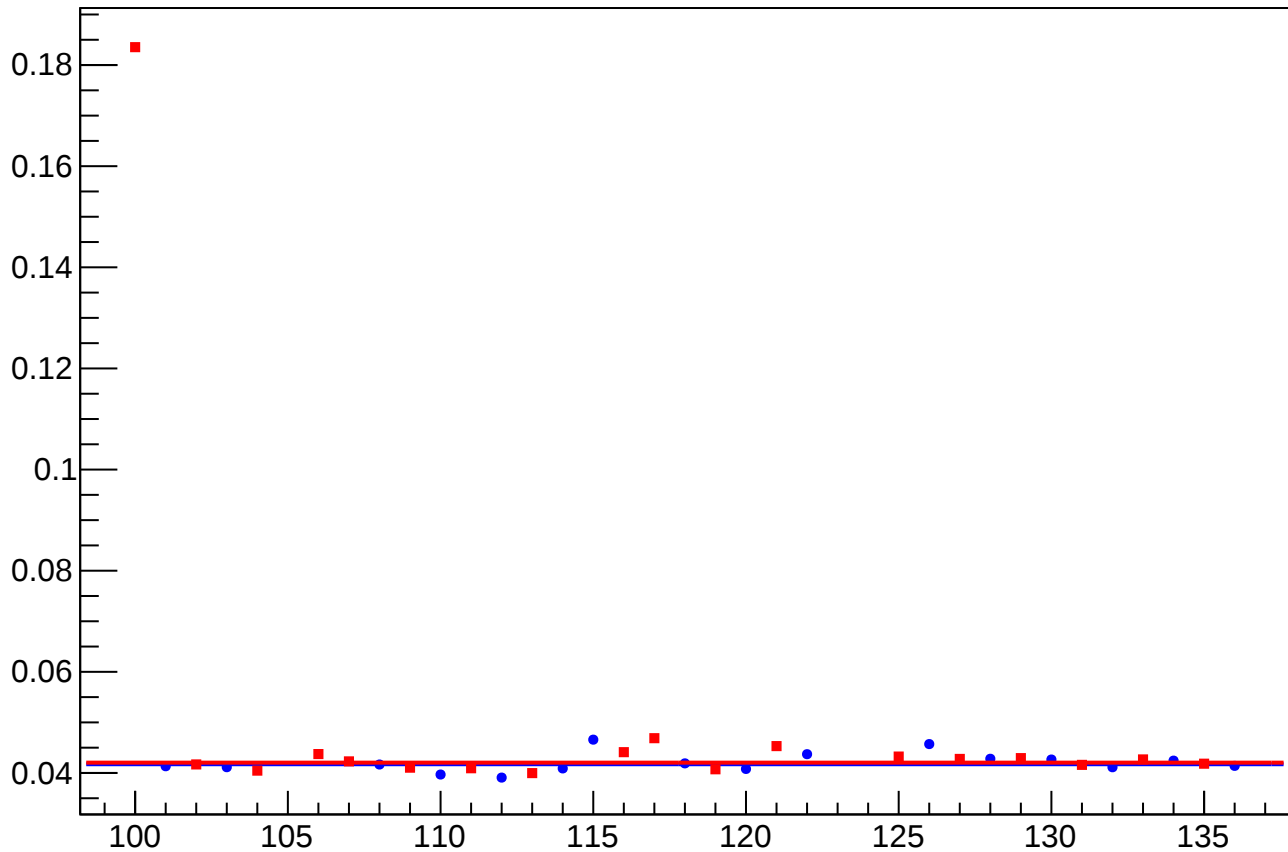
Right Out: 84.988+/-0.000  $\chi^2/\text{NDF}$ : 171451579902.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

86.457+/-0.000  $\chi^2/\text{NDF}$ : 291421048436.2/15

84.988+/-0.000  $\chi^2/\text{NDF}$ : 171451579902.1/17

# yield\_dsl\_rms vs Slug



Right In: 0.042+/-0.000  $\chi^2/\text{NDF}$ : 18887.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

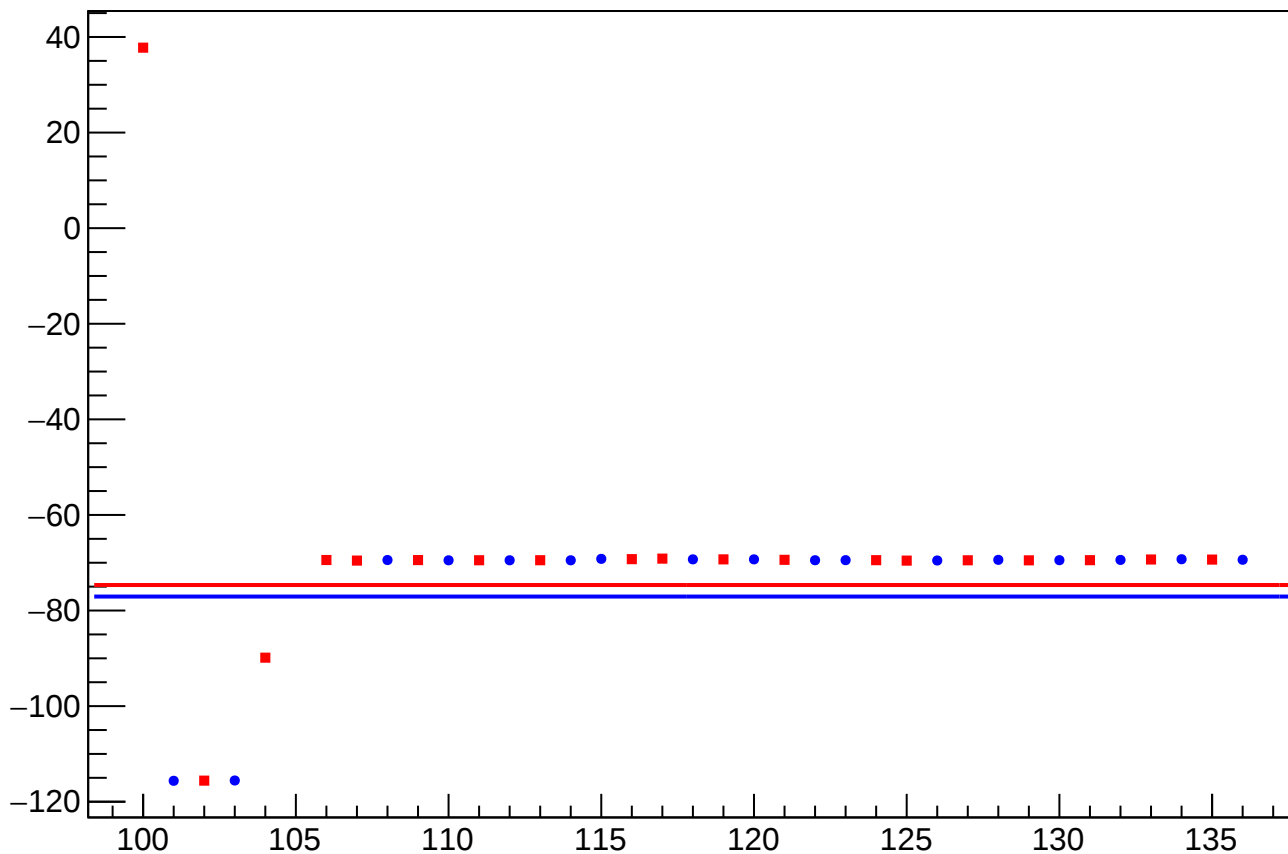
Right Out: 0.042+/-0.000  $\chi^2/\text{NDF}$ : 97435.9/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.042+/-0.000  $\chi^2/\text{NDF}$ : 18887.0/15

0.042+/-0.000  $\chi^2/\text{NDF}$ : 97435.9/17

yield\_dsr\_mean vs Slug



Right In: -77.074 $\pm$ 0.000  $\chi^2$ /NDF: 565391865606.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

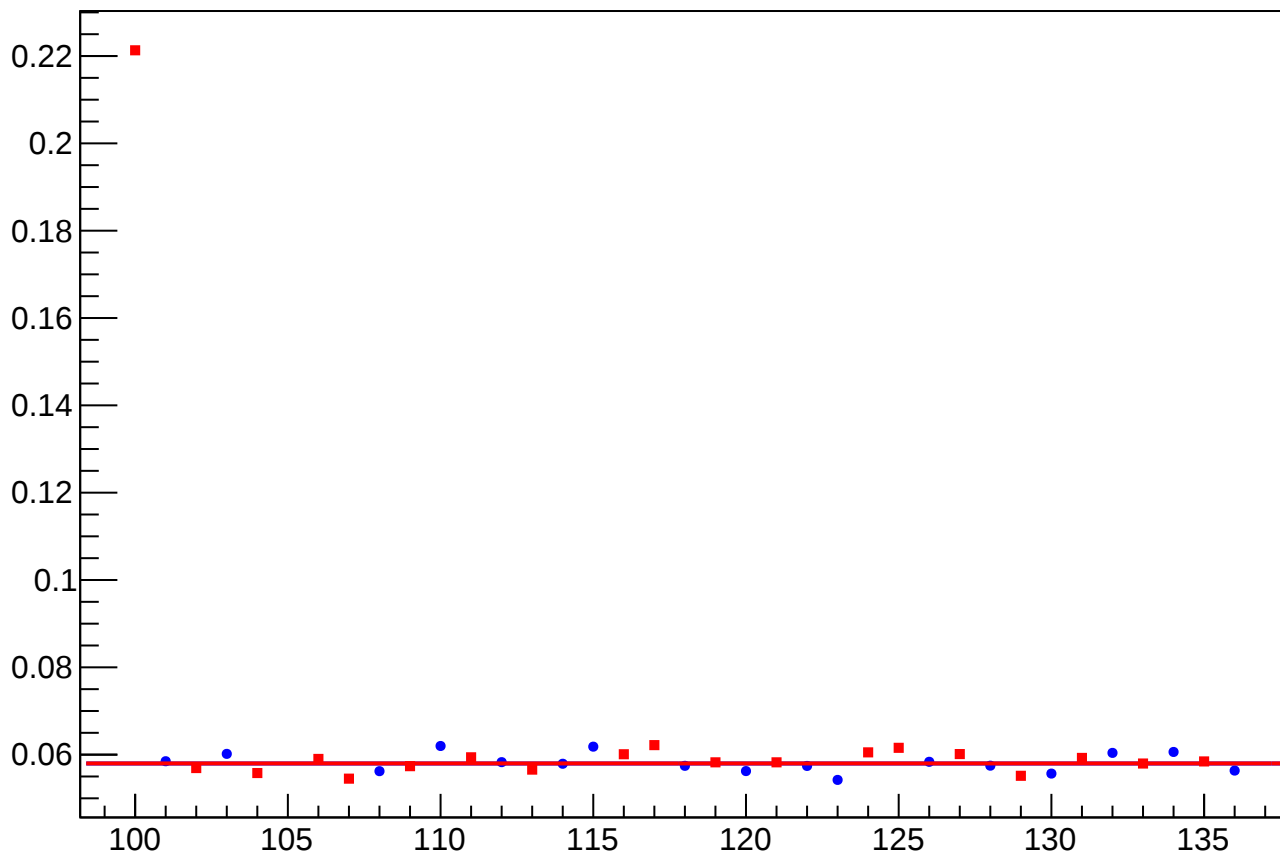
Right Out: -74.662 $\pm$ 0.000  $\chi^2$ /NDF: 370695938663.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-77.074 $\pm$ 0.000  $\chi^2$ /NDF: 565391865606.1/16

-74.662 $\pm$ 0.000  $\chi^2$ /NDF: 370695938663.3/18

# yield\_dsr\_rms vs Slug



Right In: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 12275.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

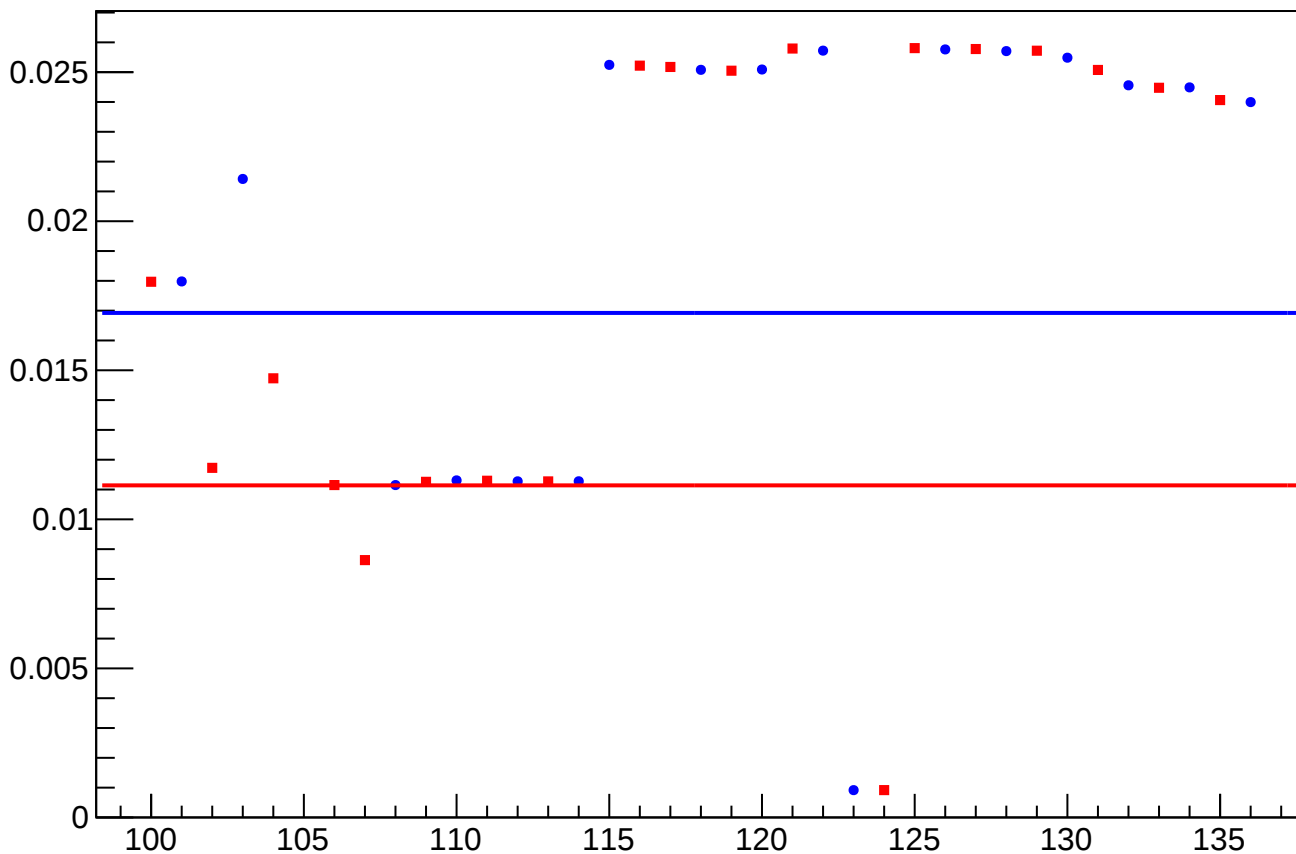
Right Out: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 86751.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.058+/-0.000  $\chi^2/\text{NDF}$ : 12275.6/16

0.058+/-0.000  $\chi^2/\text{NDF}$ : 86751.1/18

# yield\_atl1\_mean vs Slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 126447785006.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

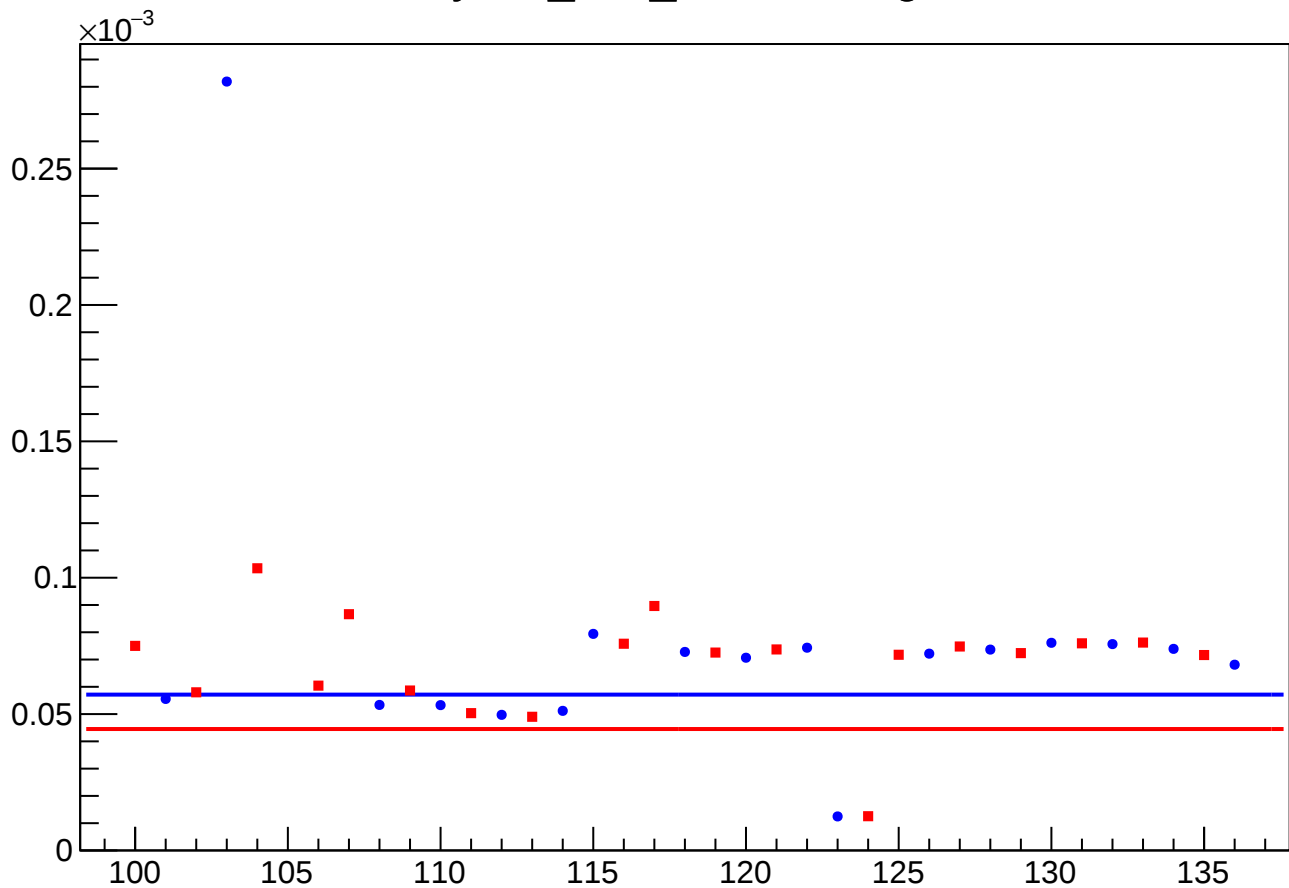
Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 229249761141.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.017+/-0.000  $\chi^2/\text{NDF}$ : 126447785006.7/16

0.011+/-0.000  $\chi^2/\text{NDF}$ : 229249761141.9/18

# yield\_atl1\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2000446.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

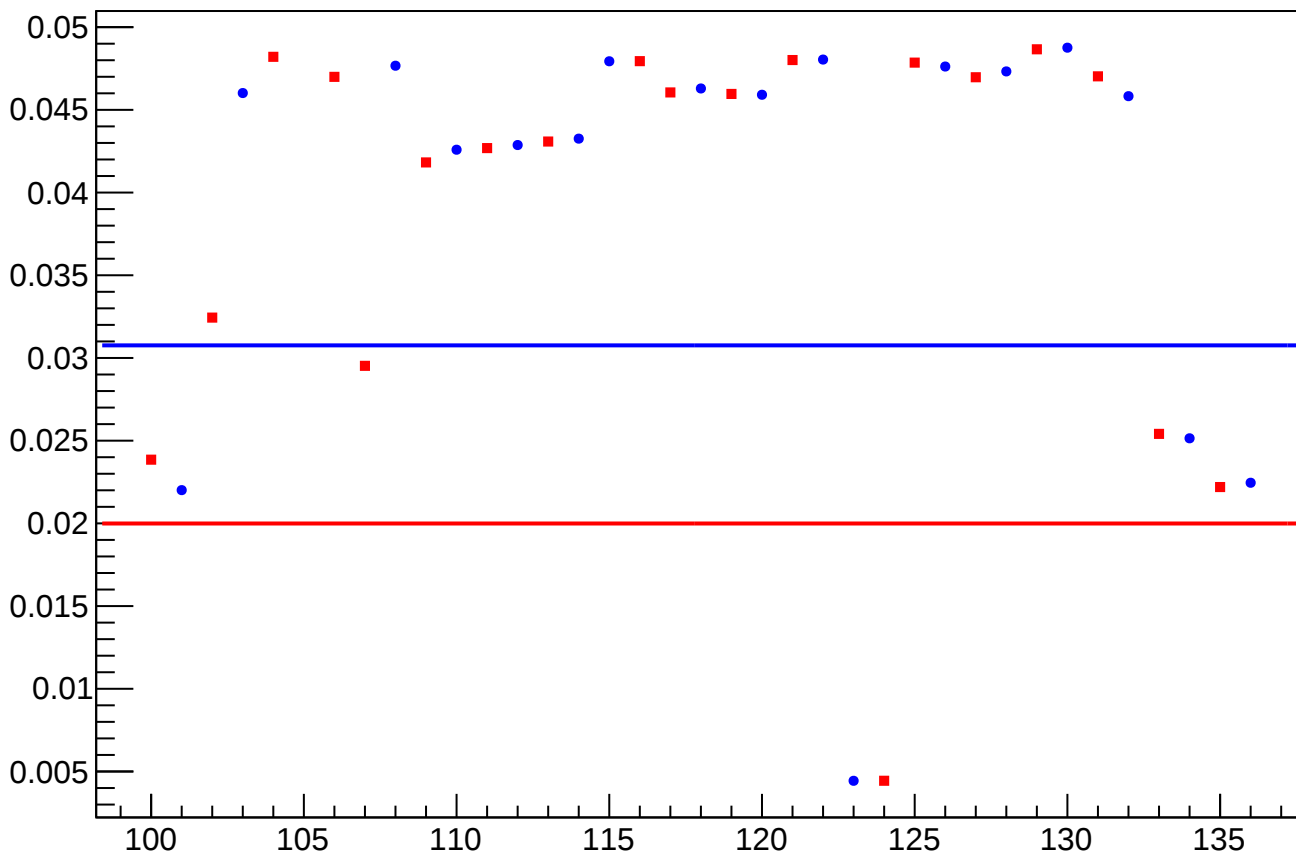
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3568522.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2000446.9/16

0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3568522.2/18

# yield\_atl2\_mean vs Slug



Right In: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 21174738549.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

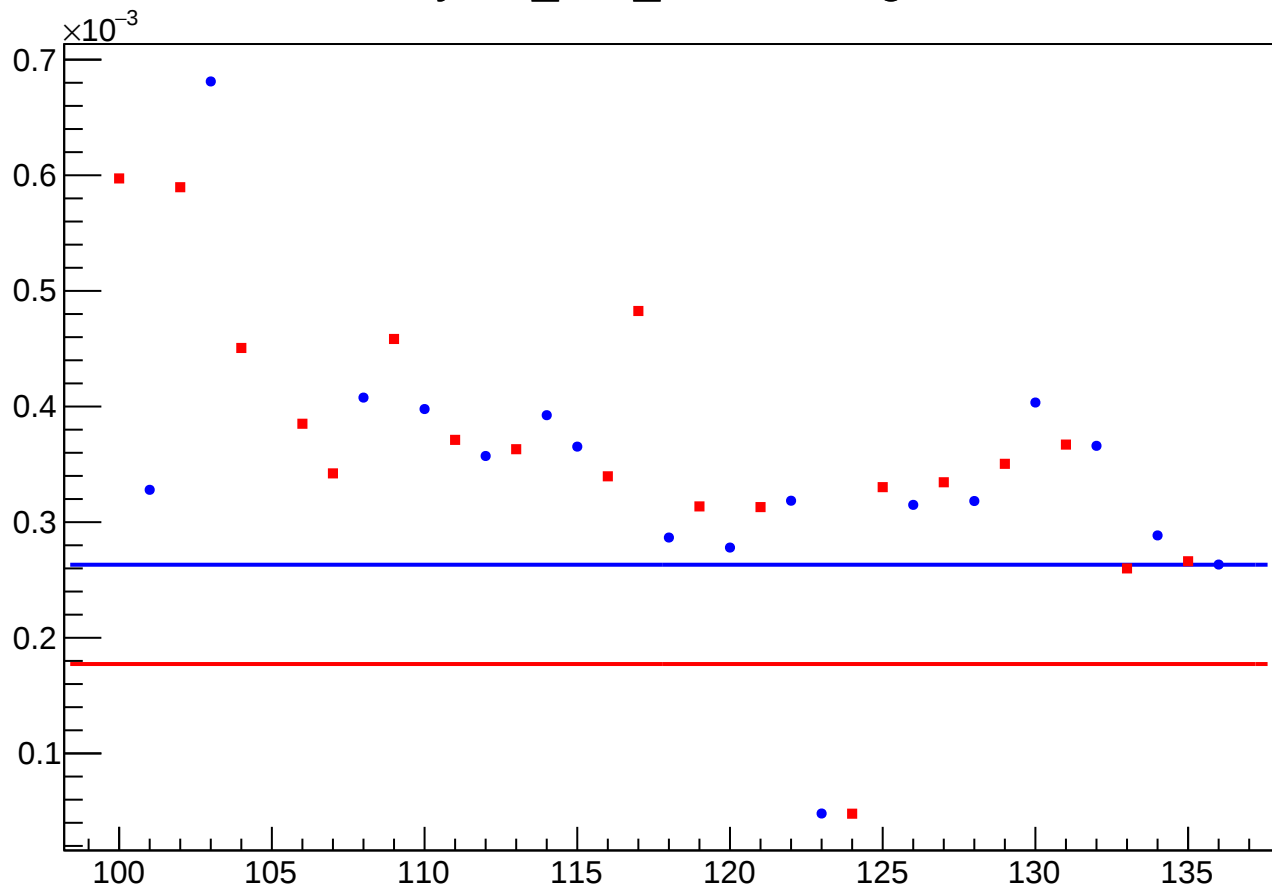
Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 40116304757.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.031+/-0.000  $\chi^2/\text{NDF}$ : 21174738549.0/16

0.020+/-0.000  $\chi^2/\text{NDF}$ : 40116304757.1/18

# yield\_atl2\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2401048.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

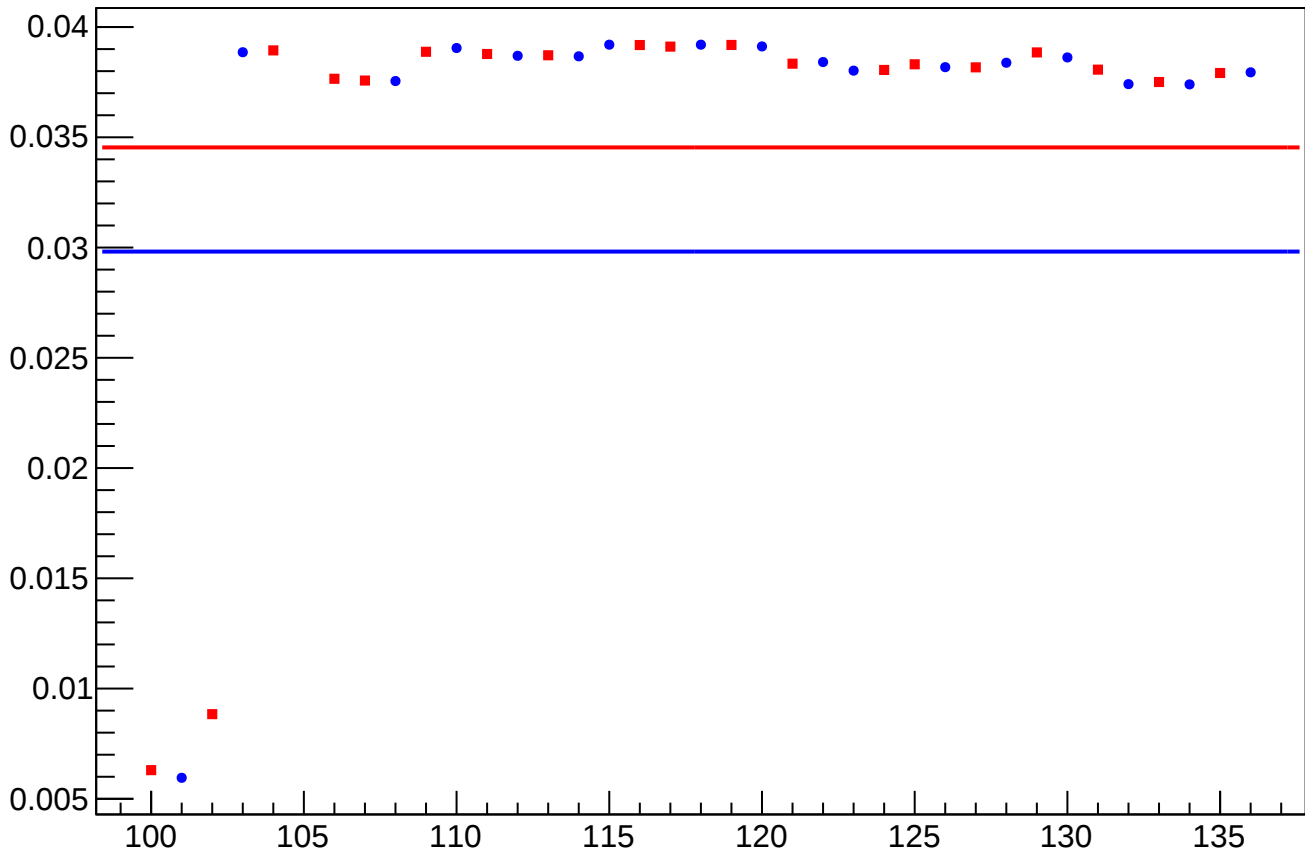
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5341583.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2401048.9/16

0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5341583.4/18

yield\_atr1\_mean vs Slug



Right In: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 97152184939.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

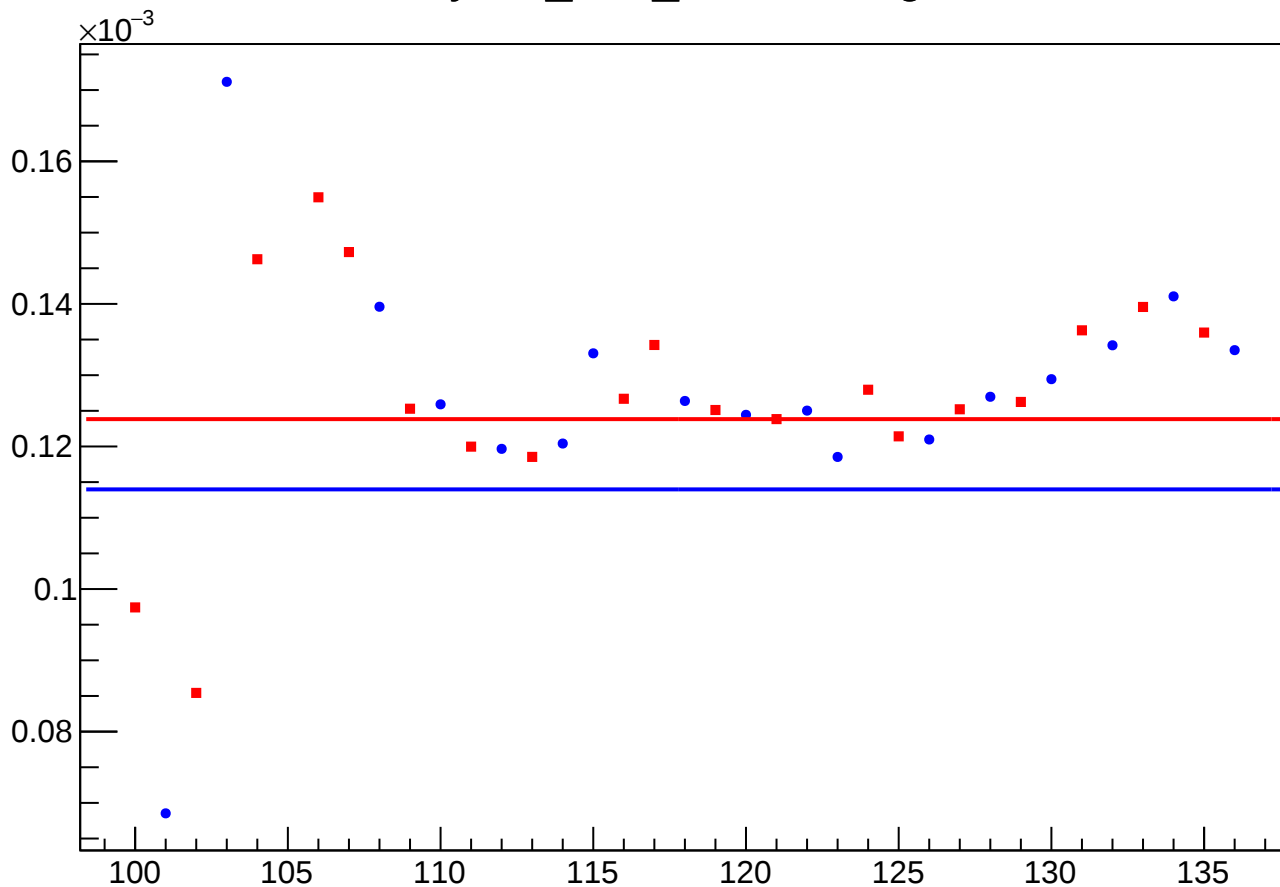
0.030+/-0.000  $\chi^2/\text{NDF}$ : 97152184939.3/16

Right Out: 0.035+/-0.000  $\chi^2/\text{NDF}$ : 43611378248.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.035+/-0.000  $\chi^2/\text{NDF}$ : 43611378248.8/18

# yield\_atr1\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 794542.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

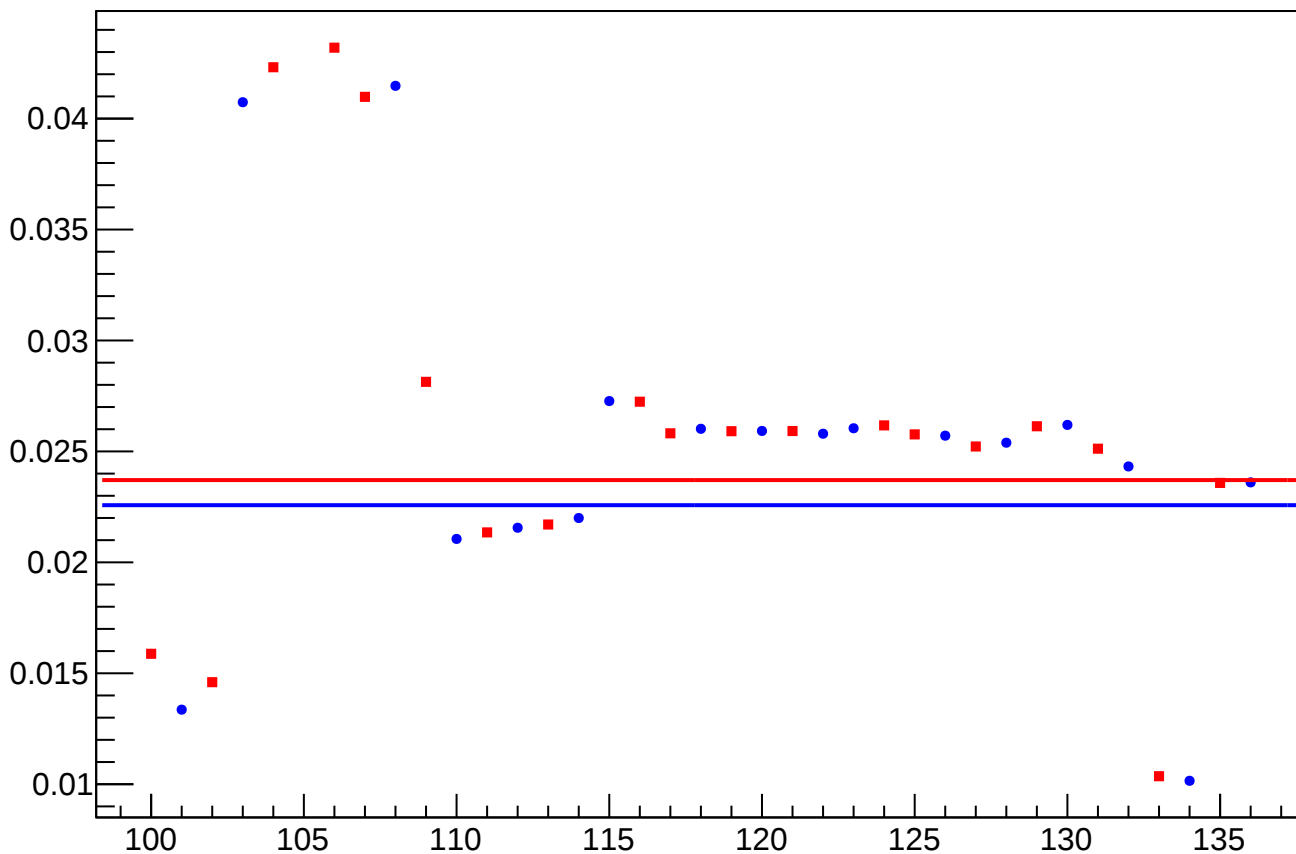
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 243848.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 794542.9/16

0.000+/-0.000  $\chi^2/\text{NDF}$ : 243848.7/18

# yield\_atr2\_mean vs Slug



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 4247774712.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

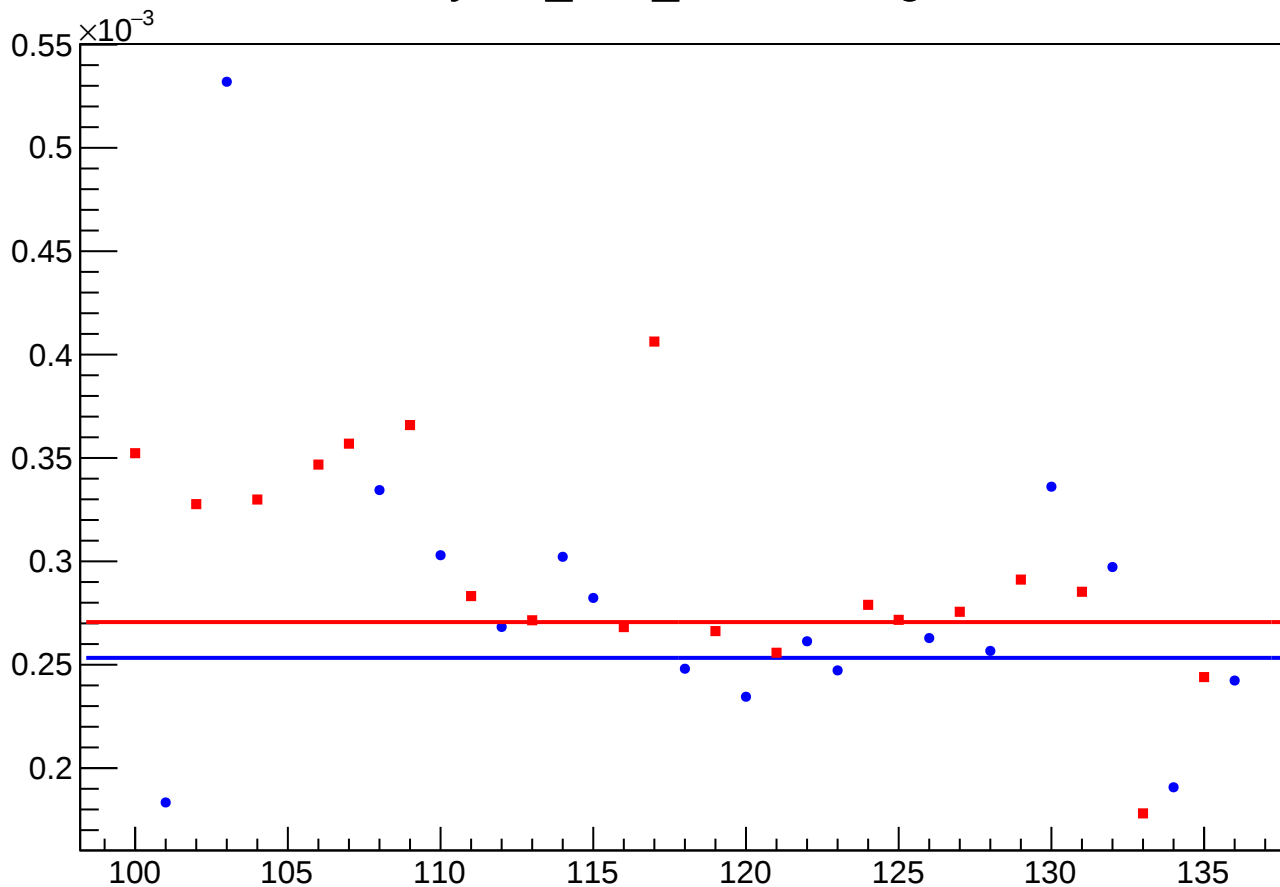
Right Out: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 5652503274.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.023+/-0.000  $\chi^2/\text{NDF}$ : 4247774712.9/16

0.024+/-0.000  $\chi^2/\text{NDF}$ : 5652503274.6/18

# yield\_atr2\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 629159.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

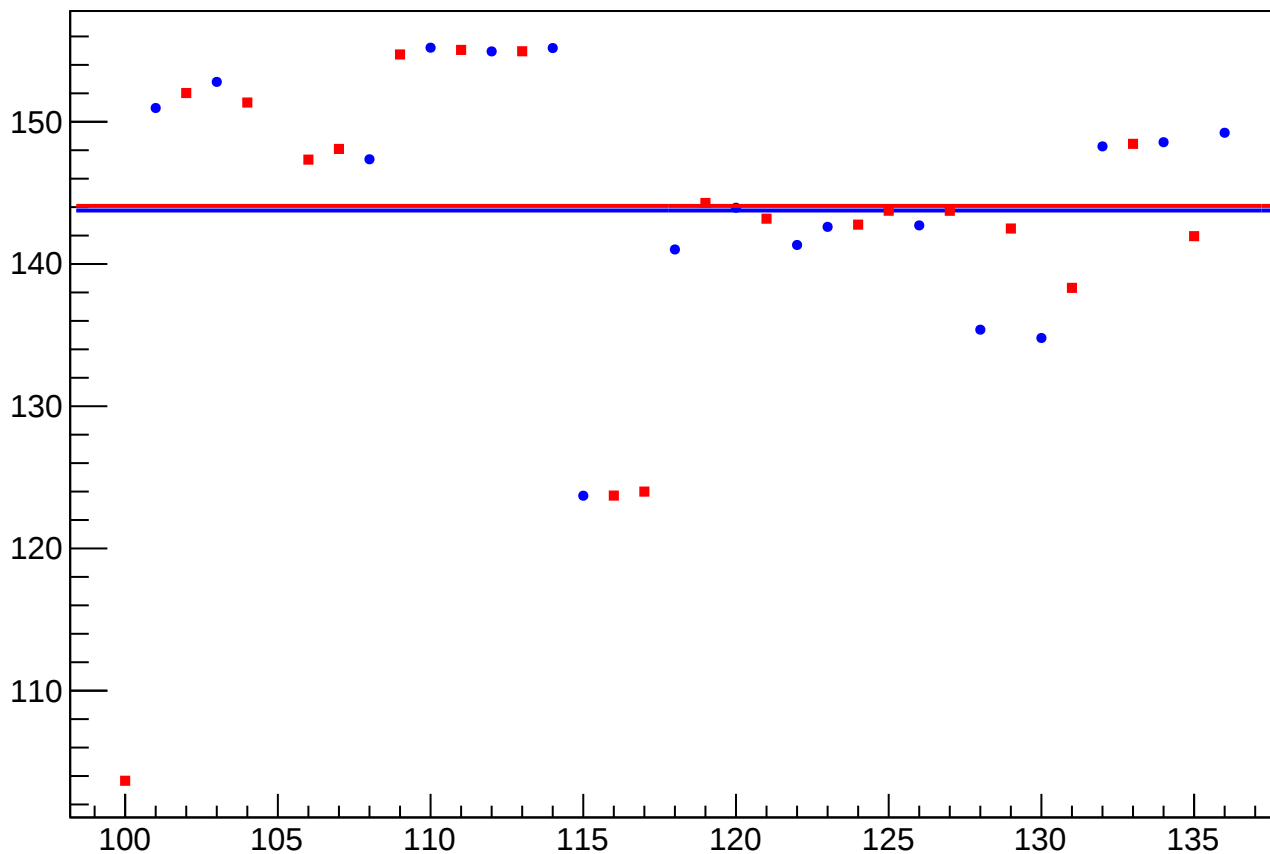
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 427877.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 629159.2/16

0.000+/-0.000  $\chi^2/\text{NDF}$ : 427877.7/18

yield\_bcm\_an\_ds\_mean vs Slug



Right In: 143.763 $\pm$ 0.000  $\chi^2$ /NDF: 3534699505.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

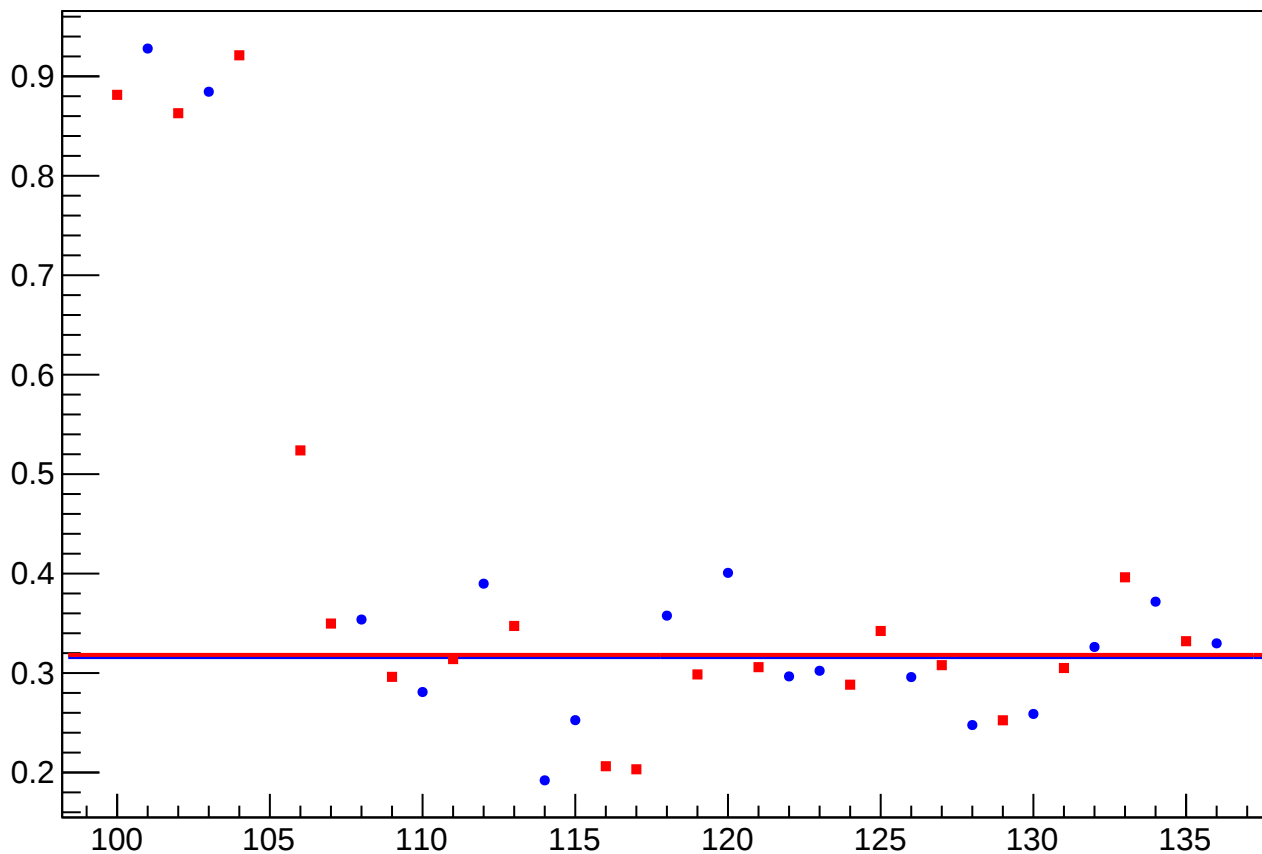
Right Out: 144.085 $\pm$ 0.000  $\chi^2$ /NDF: 4489805731.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

143.763 $\pm$ 0.000  $\chi^2$ /NDF: 3534699505.1/16

144.085 $\pm$ 0.000  $\chi^2$ /NDF: 4489805731.9/18

# yield\_bcm\_an\_ds\_rms vs Slug



Right In: 0.316+/-0.000  $\chi^2/\text{NDF}$ : 1265921.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

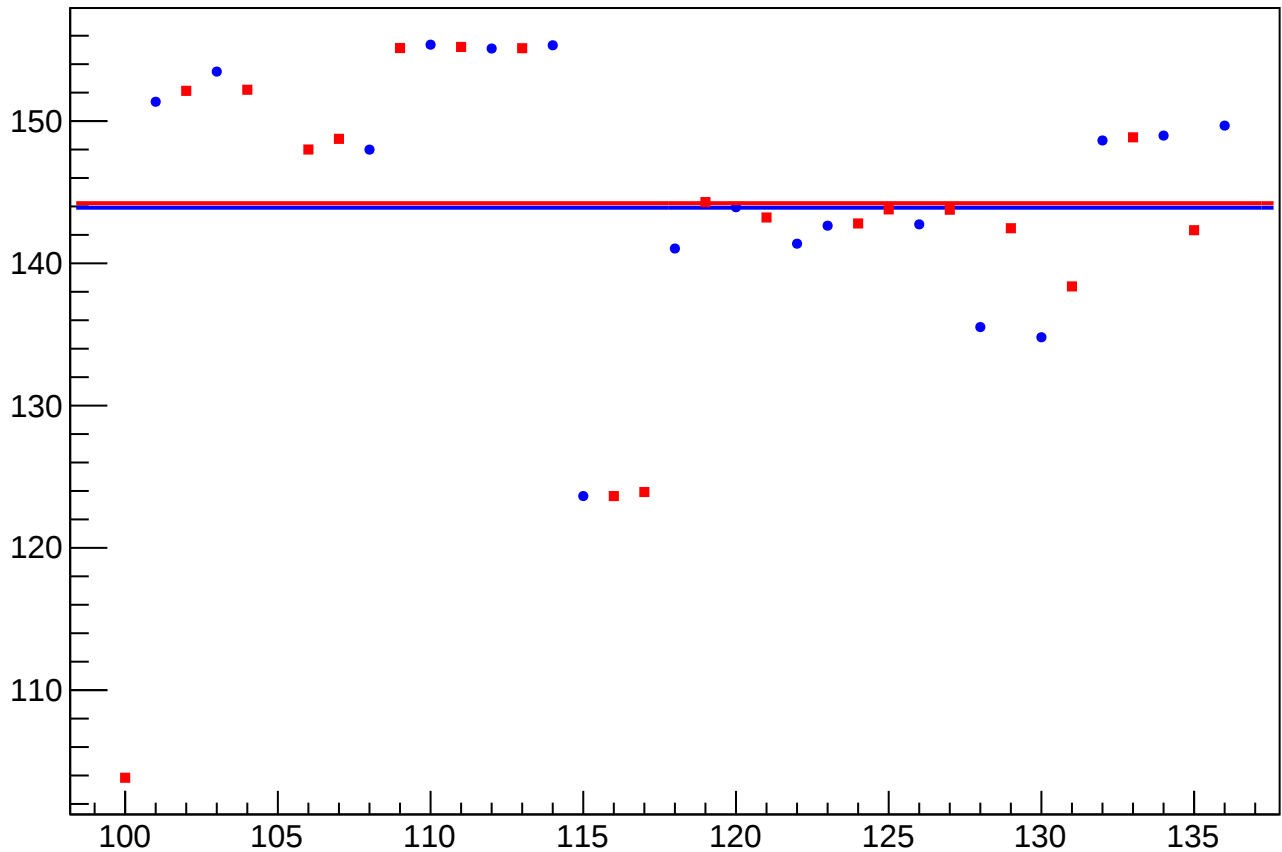
Right Out: 0.318+/-0.000  $\chi^2/\text{NDF}$ : 1229536.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.316+/-0.000  $\chi^2/\text{NDF}$ : 1265921.5/16

0.318+/-0.000  $\chi^2/\text{NDF}$ : 1229536.3/18

yield\_bcm\_an\_ds3\_mean vs Slug



Right In: 143.912 $\pm$ 0.000  $\chi^2$ /NDF: 3587769790.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

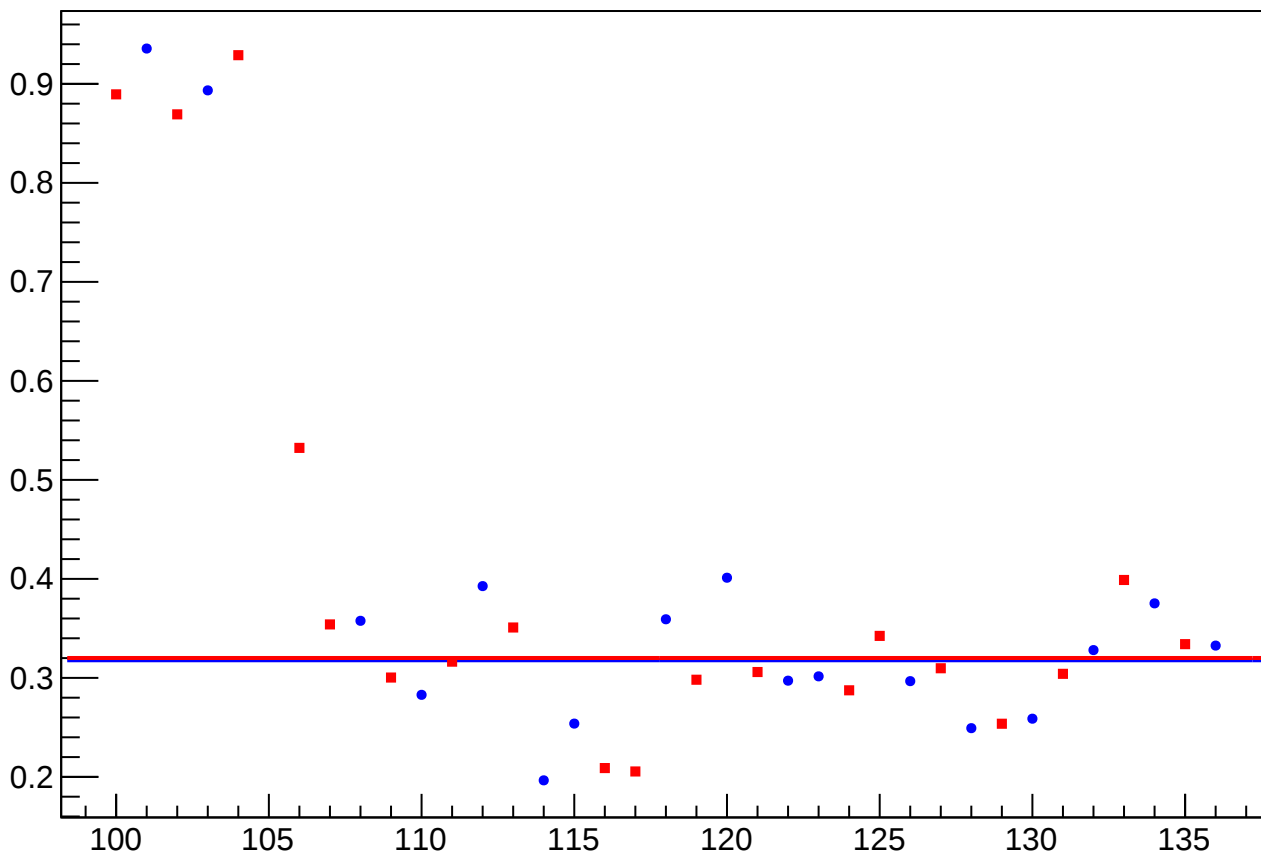
143.912 $\pm$ 0.000  $\chi^2$ /NDF: 3587769790.2/16

Right Out: 144.229 $\pm$ 0.000  $\chi^2$ /NDF: 4514245035.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

144.229 $\pm$ 0.000  $\chi^2$ /NDF: 4514245035.8/18

# yield\_bcm\_an\_ds3\_rms vs Slug



Right In: 0.318+/-0.000  $\chi^2/\text{NDF}$ : 1268257.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

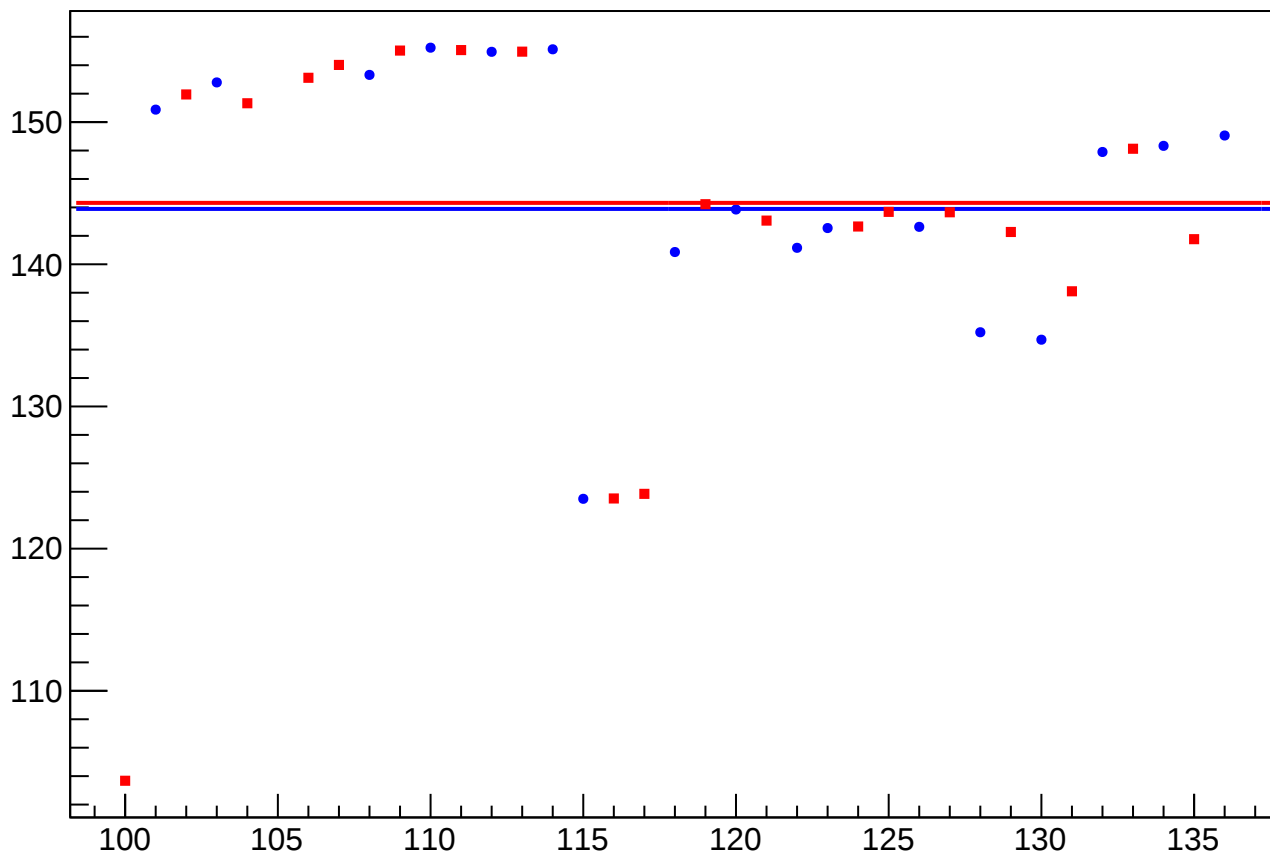
Right Out: 0.320+/-0.000  $\chi^2/\text{NDF}$ : 1231958.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.318+/-0.000  $\chi^2/\text{NDF}$ : 1268257.9/16

0.320+/-0.000  $\chi^2/\text{NDF}$ : 1231958.8/18

# yield\_bcm\_an\_us\_mean vs Slug



Right In: 143.893 $\pm$ 0.000  $\chi^2$ /NDF: 3752655677.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

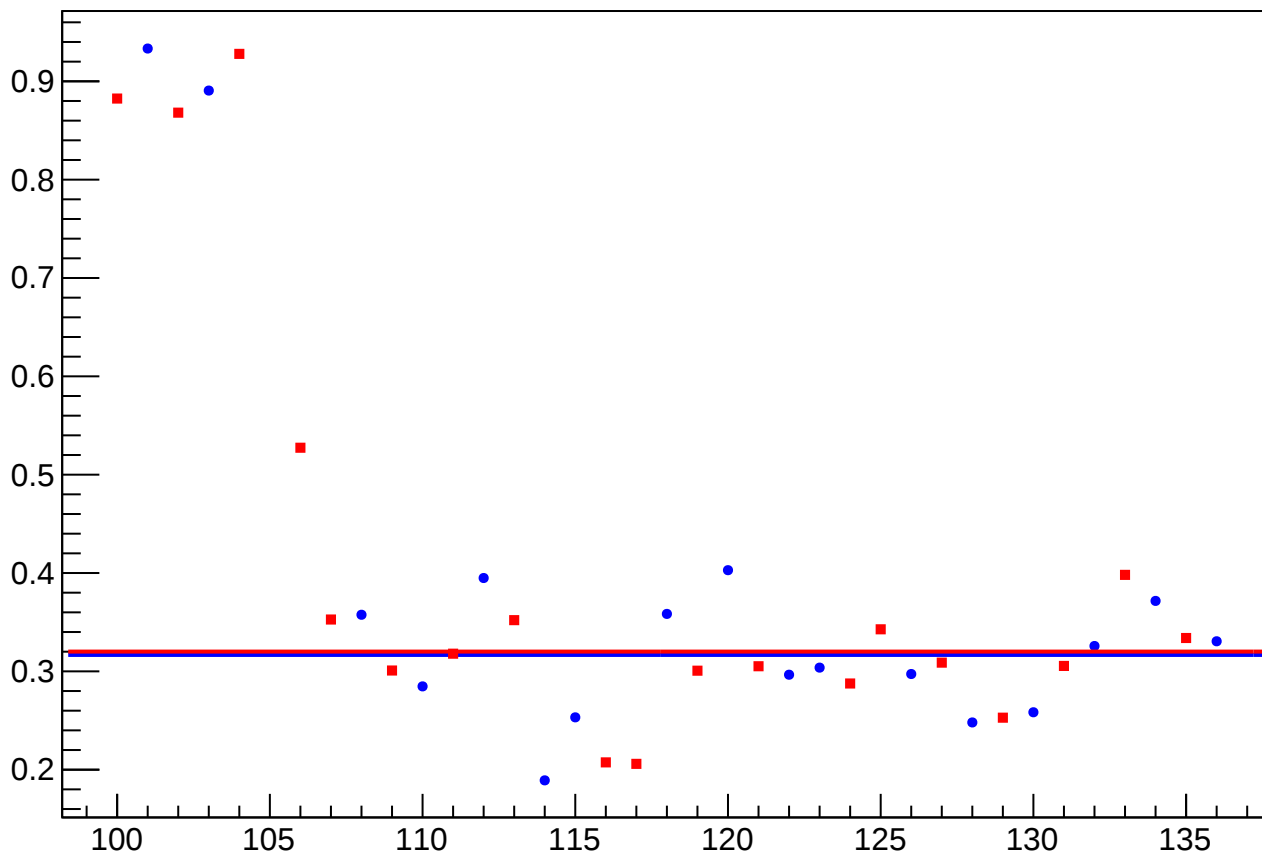
Right Out: 144.319 $\pm$ 0.000  $\chi^2$ /NDF: 4790744717.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

143.893 $\pm$ 0.000  $\chi^2$ /NDF: 3752655677.2/16

144.319 $\pm$ 0.000  $\chi^2$ /NDF: 4790744717.5/18

# yield\_bcm\_an\_us\_rms vs Slug



Right In: 0.317+/-0.000  $\chi^2/\text{NDF}$ : 1280358.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

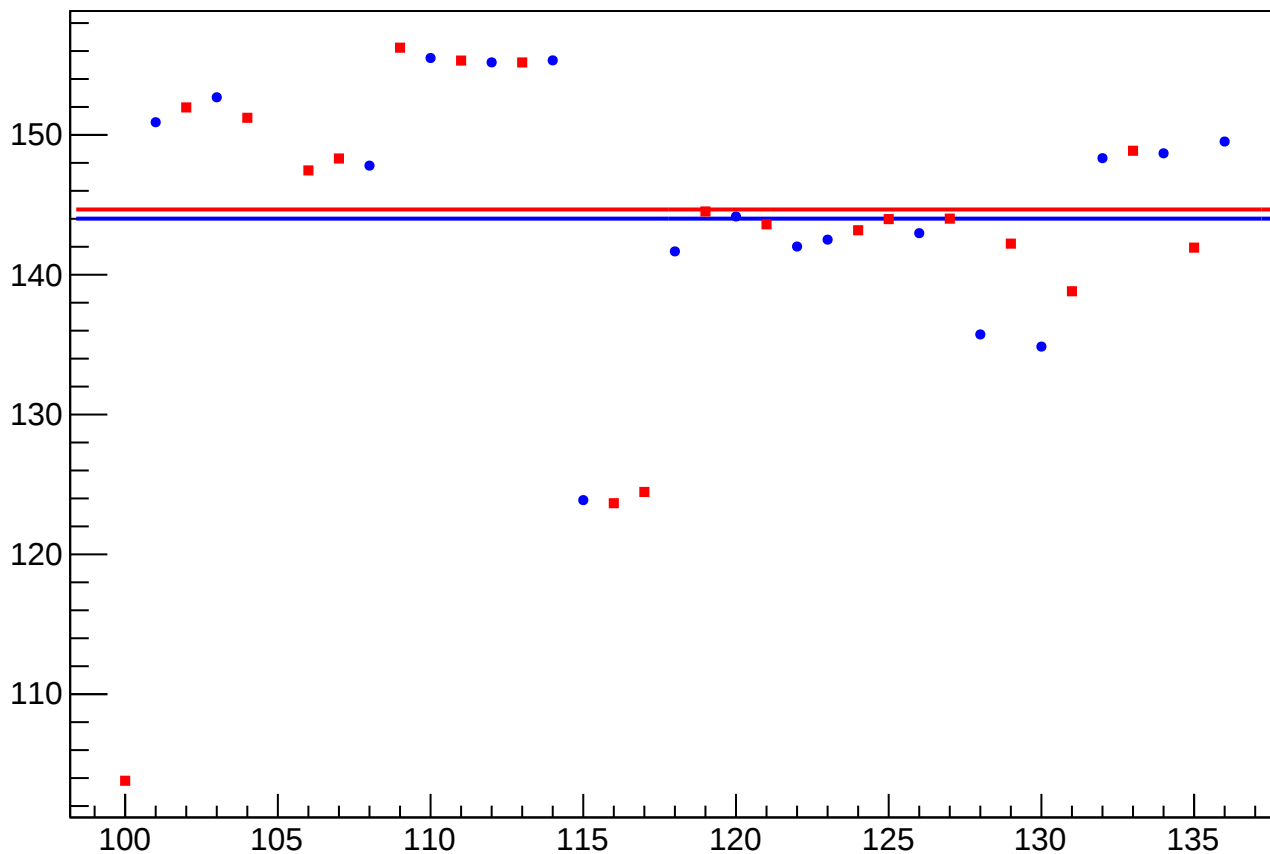
Right Out: 0.320+/-0.000  $\chi^2/\text{NDF}$ : 1232667.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.317+/-0.000  $\chi^2/\text{NDF}$ : 1280358.6/16

0.320+/-0.000  $\chi^2/\text{NDF}$ : 1232667.6/18

yield\_bcm\_dg\_us\_mean vs Slug



Right In: 144.012 $\pm$ 0.000  $\chi^2$ /NDF: 3241696920.3/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

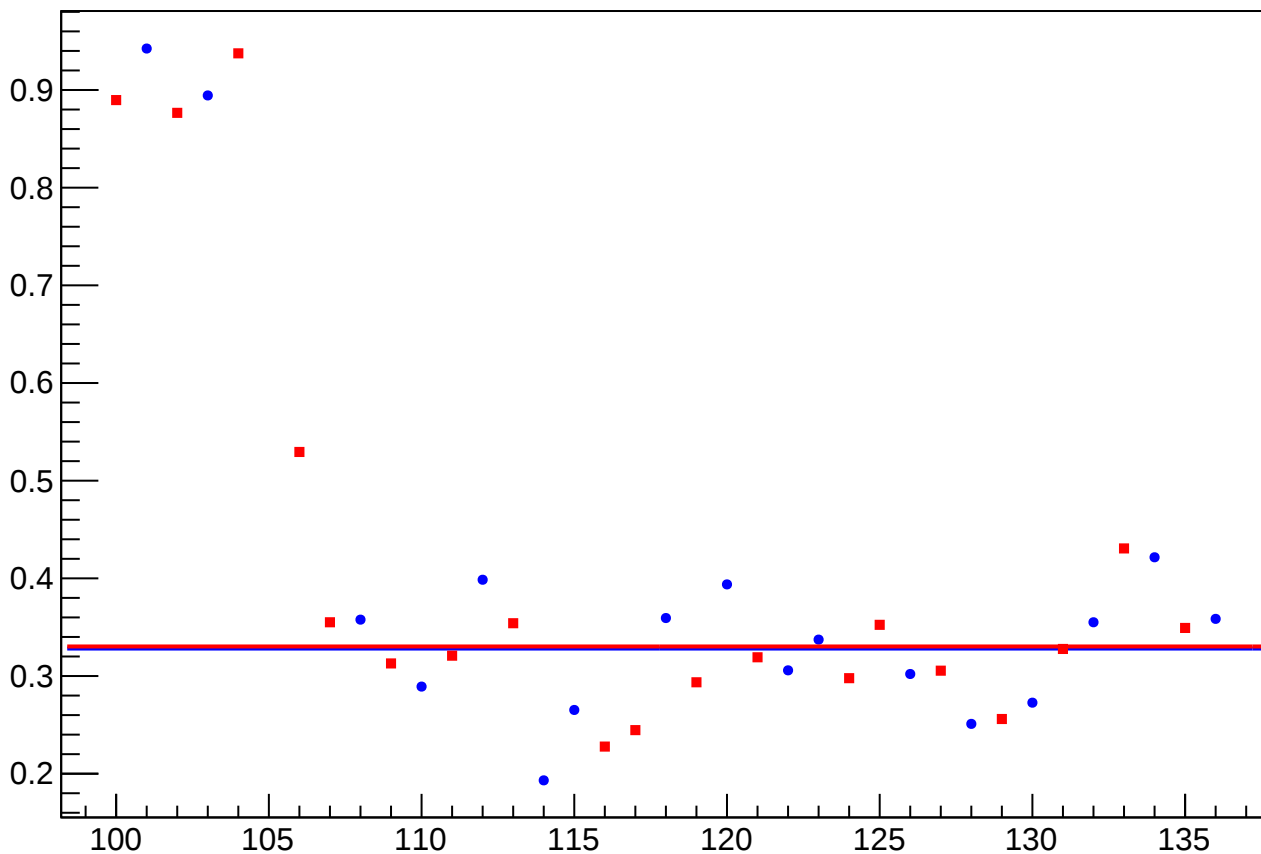
Right Out: 144.668 $\pm$ 0.000  $\chi^2$ /NDF: 4071319579.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

144.012 $\pm$ 0.000  $\chi^2$ /NDF: 3241696920.3/16

144.668 $\pm$ 0.000  $\chi^2$ /NDF: 4071319579.8/18

# yield\_bcm\_dg\_us\_rms vs Slug



Right In: 0.328 $\pm$ 0.000  $\chi^2$ /NDF: 1265892.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

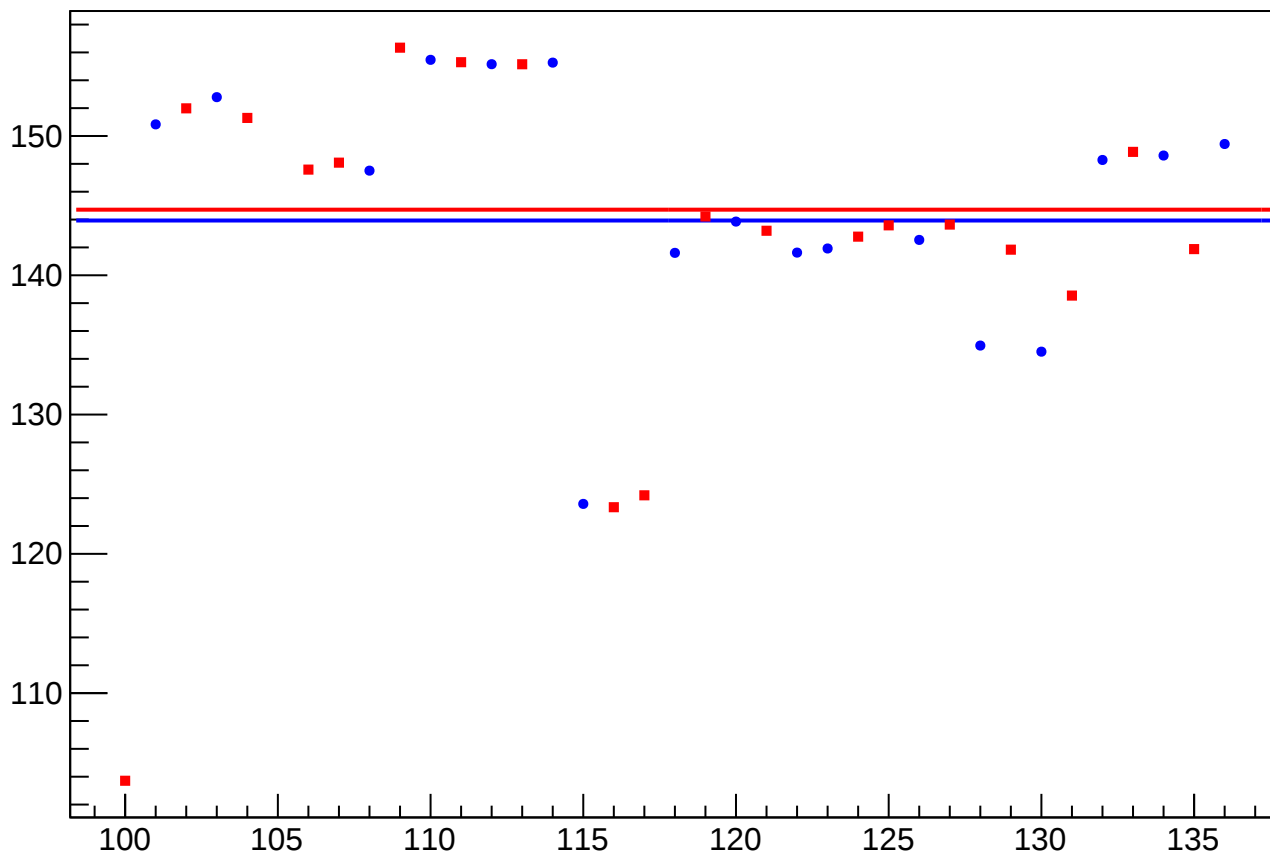
Right Out: 0.330 $\pm$ 0.000  $\chi^2$ /NDF: 1181779.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.328 $\pm$ 0.000  $\chi^2$ /NDF: 1265892.9/16

0.330 $\pm$ 0.000  $\chi^2$ /NDF: 1181779.8/18

# yield\_bcm\_dg\_ds\_mean vs Slug



Right In: 143.932+/-0.000  $\chi^2/\text{NDF}$ : 3383012861.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

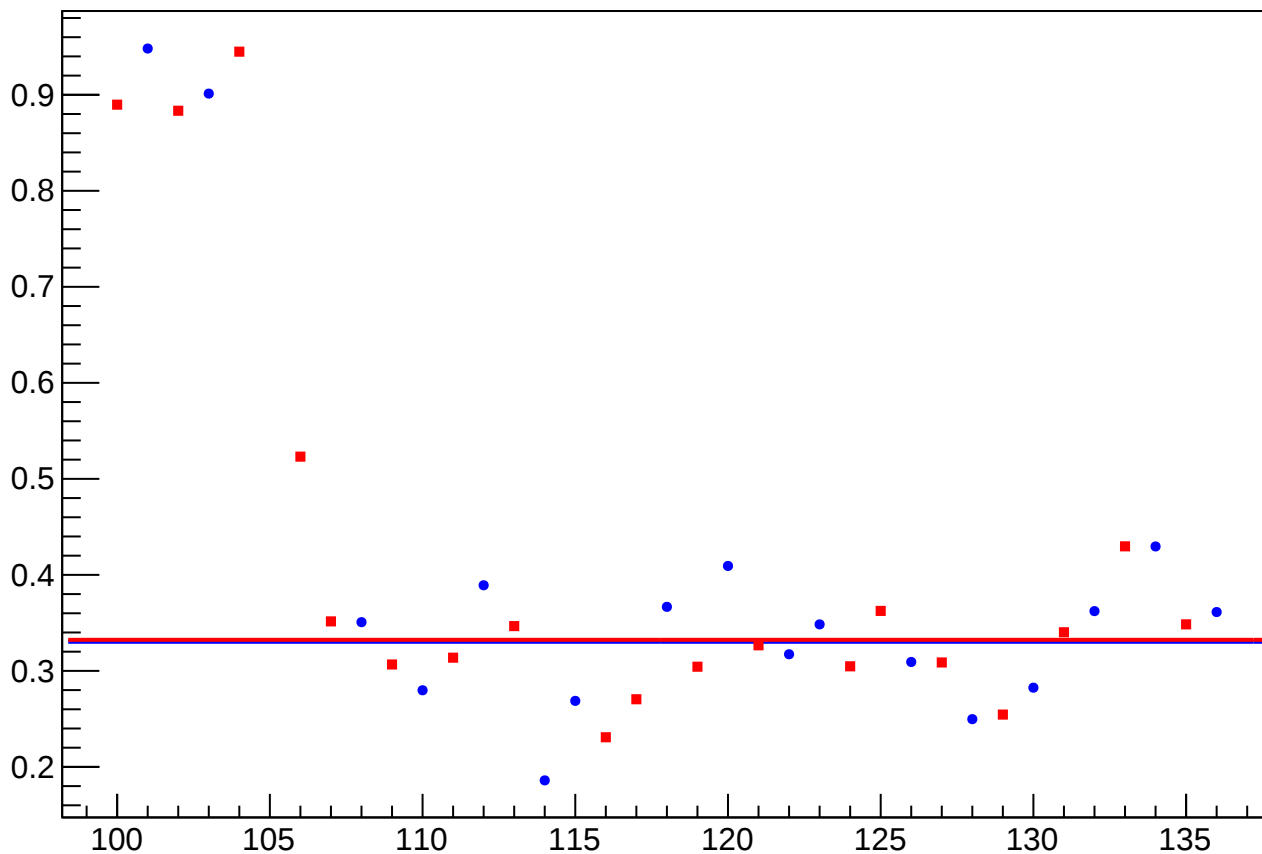
Right Out: 144.710+/-0.000  $\chi^2/\text{NDF}$ : 4113333684.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

143.932+/-0.000  $\chi^2/\text{NDF}$ : 3383012861.2/16

144.710+/-0.000  $\chi^2/\text{NDF}$ : 4113333684.5/18

# yield\_bcm\_dg\_ds\_rms vs Slug



Right In: 0.330+/-0.000  $\chi^2/\text{NDF}$ : 1283955.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

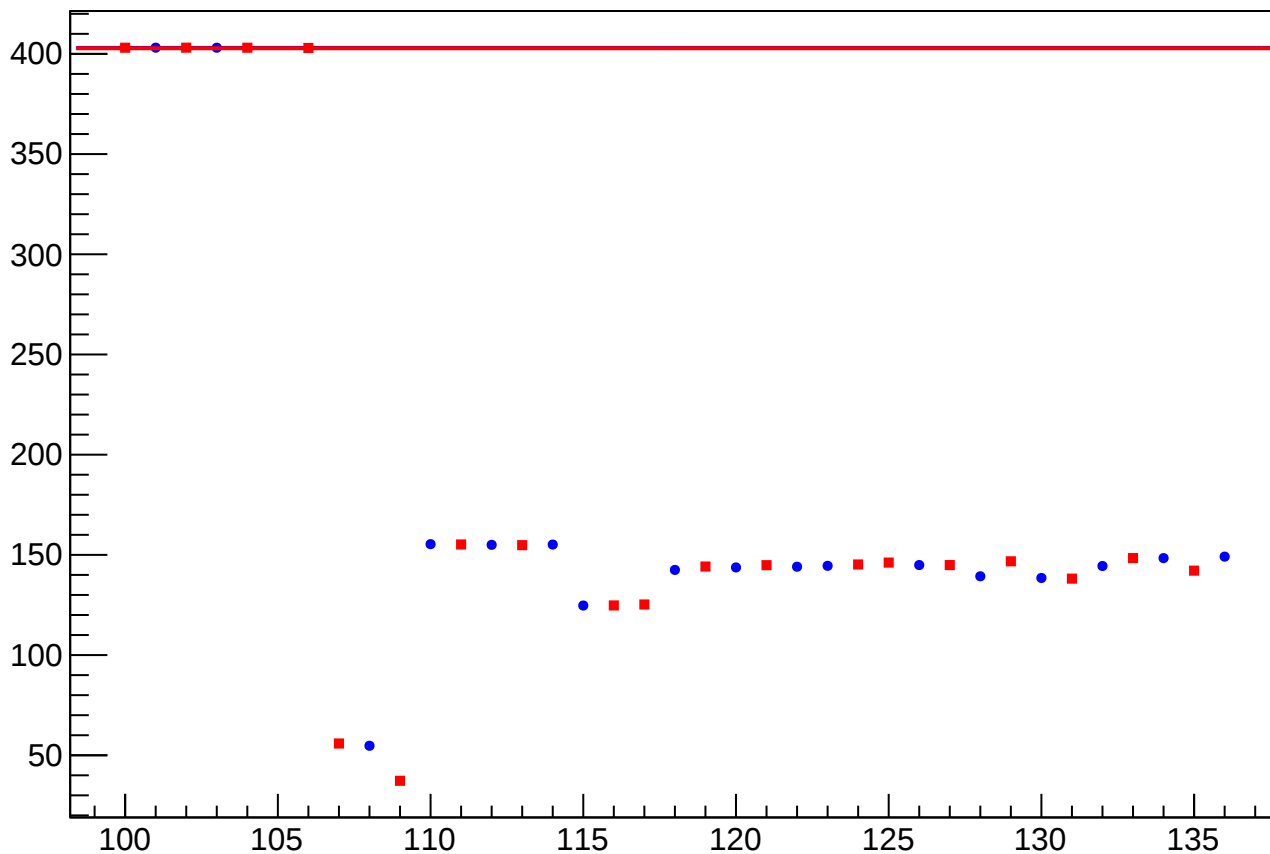
Right Out: 0.332+/-0.000  $\chi^2/\text{NDF}$ : 1167296.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.330+/-0.000  $\chi^2/\text{NDF}$ : 1283955.7/16

0.332+/-0.000  $\chi^2/\text{NDF}$ : 1167296.5/18

yield\_cav4bQ\_mean vs Slug



Right In: 402.958+/-0.000  $\chi^2/\text{NDF}$ : 1094364588383.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

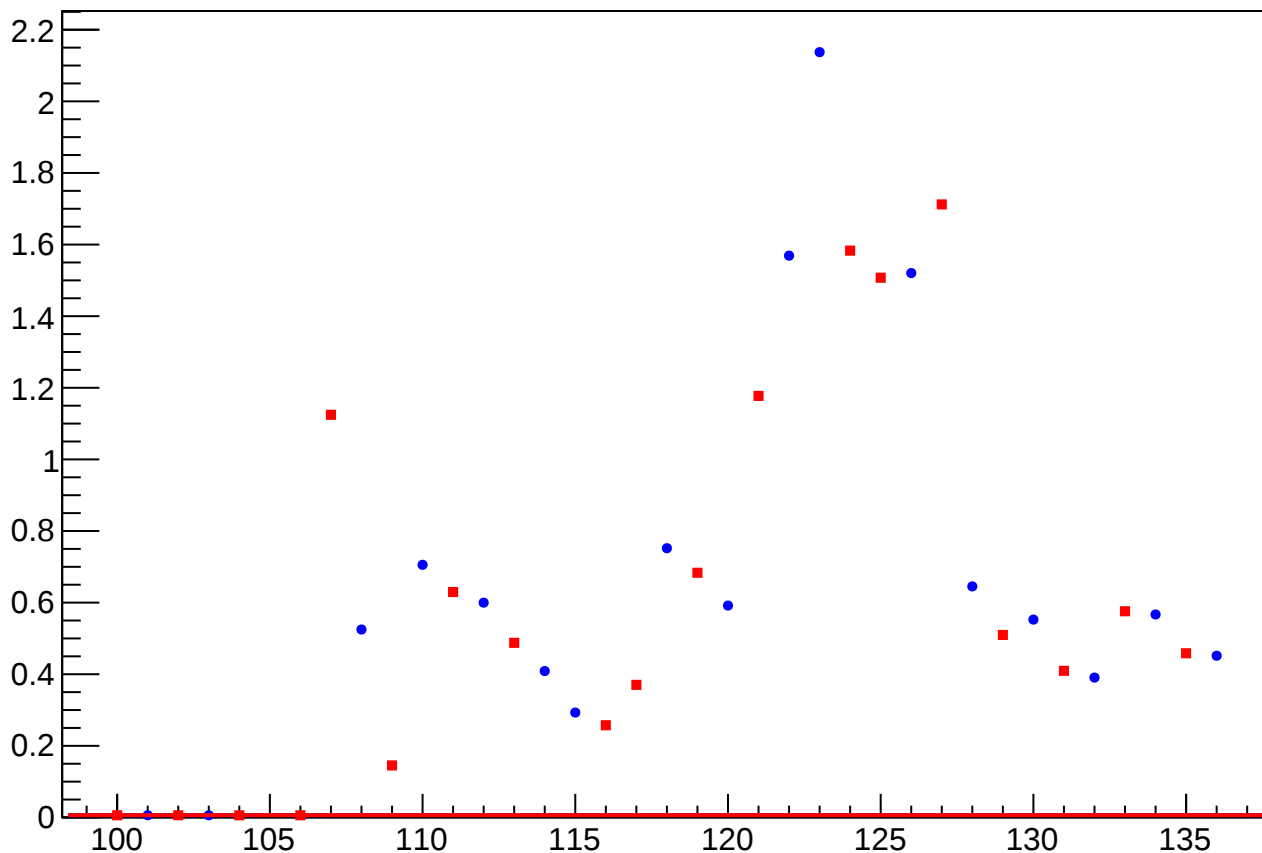
Right Out: 402.803+/-0.000  $\chi^2/\text{NDF}$ : 3063598495875.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

402.958+/-0.000  $\chi^2/\text{NDF}$ : 1094364588383.4/16

402.803+/-0.000  $\chi^2/\text{NDF}$ : 3063598495875.4/18

# yield\_cav4bQ\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 9079322.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

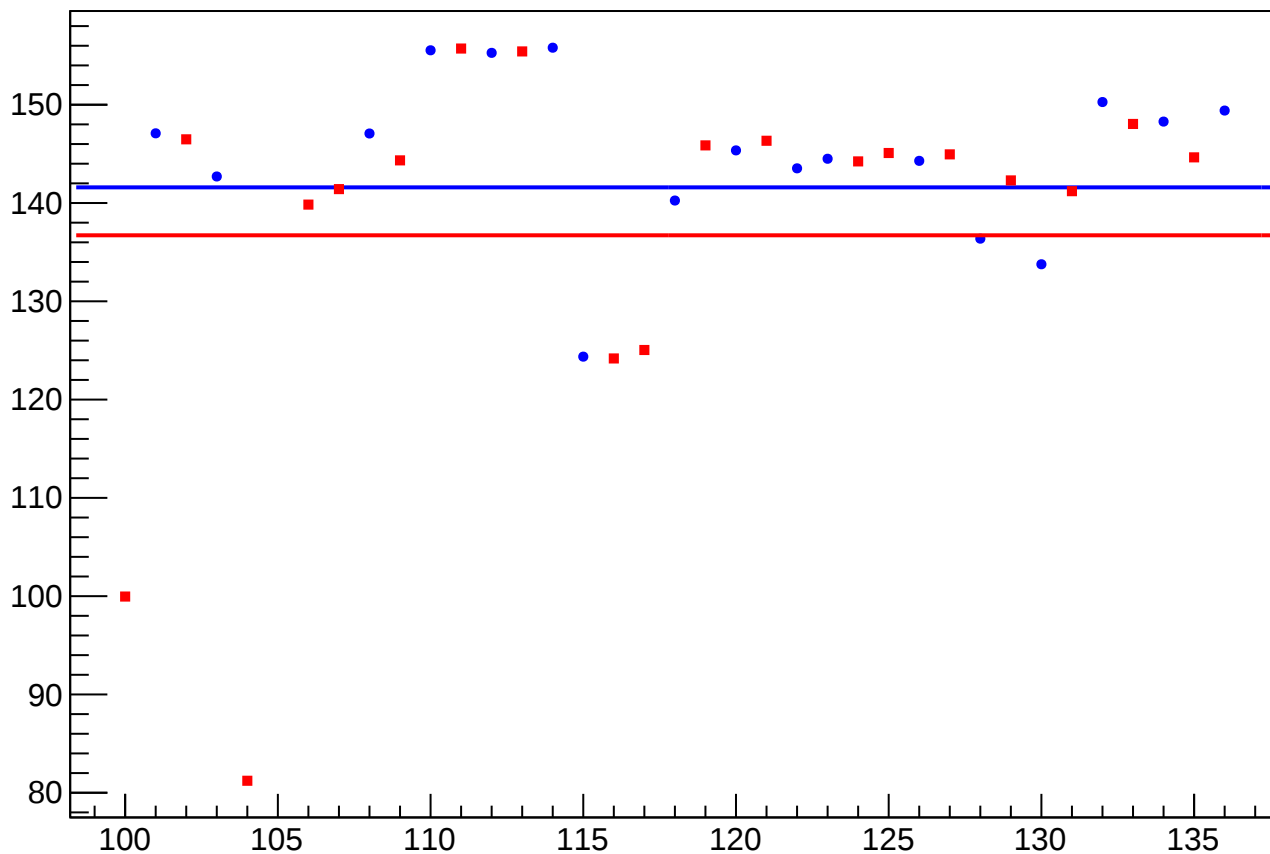
Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 8899378.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.006+/-0.000  $\chi^2/\text{NDF}$ : 9079322.7/16

0.006+/-0.000  $\chi^2/\text{NDF}$ : 8899378.1/18

yield\_cav4cQ\_mean vs Slug



Right In: 141.593 $\pm$ 0.000  $\chi^2$ /NDF: 980101868.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

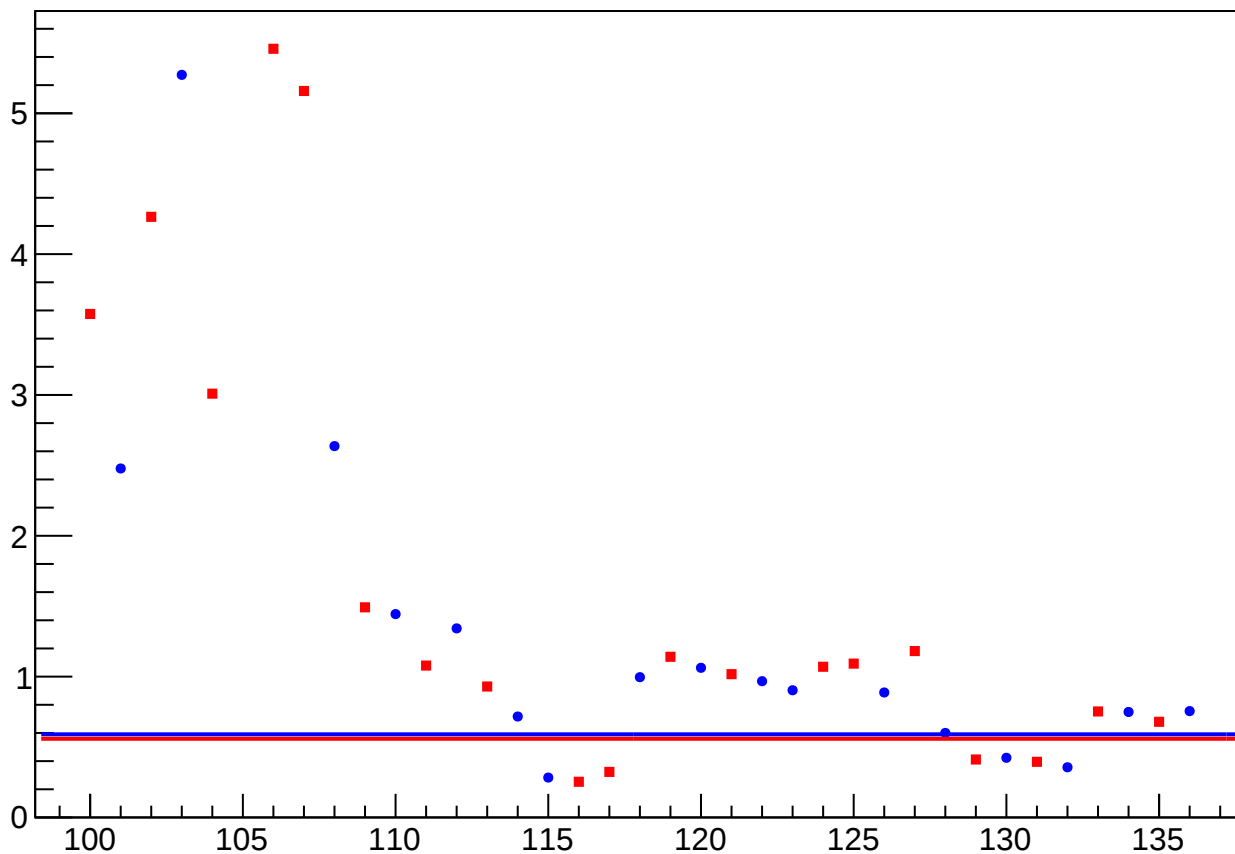
Right Out: 136.715 $\pm$ 0.000  $\chi^2$ /NDF: 1303682159.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

141.593 $\pm$ 0.000  $\chi^2$ /NDF: 980101868.2/16

136.715 $\pm$ 0.000  $\chi^2$ /NDF: 1303682159.8/18

# yield\_cav4cQ\_rms vs Slug



Right In: 0.590+/-0.000  $\chi^2/\text{NDF}$ : 3491995.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

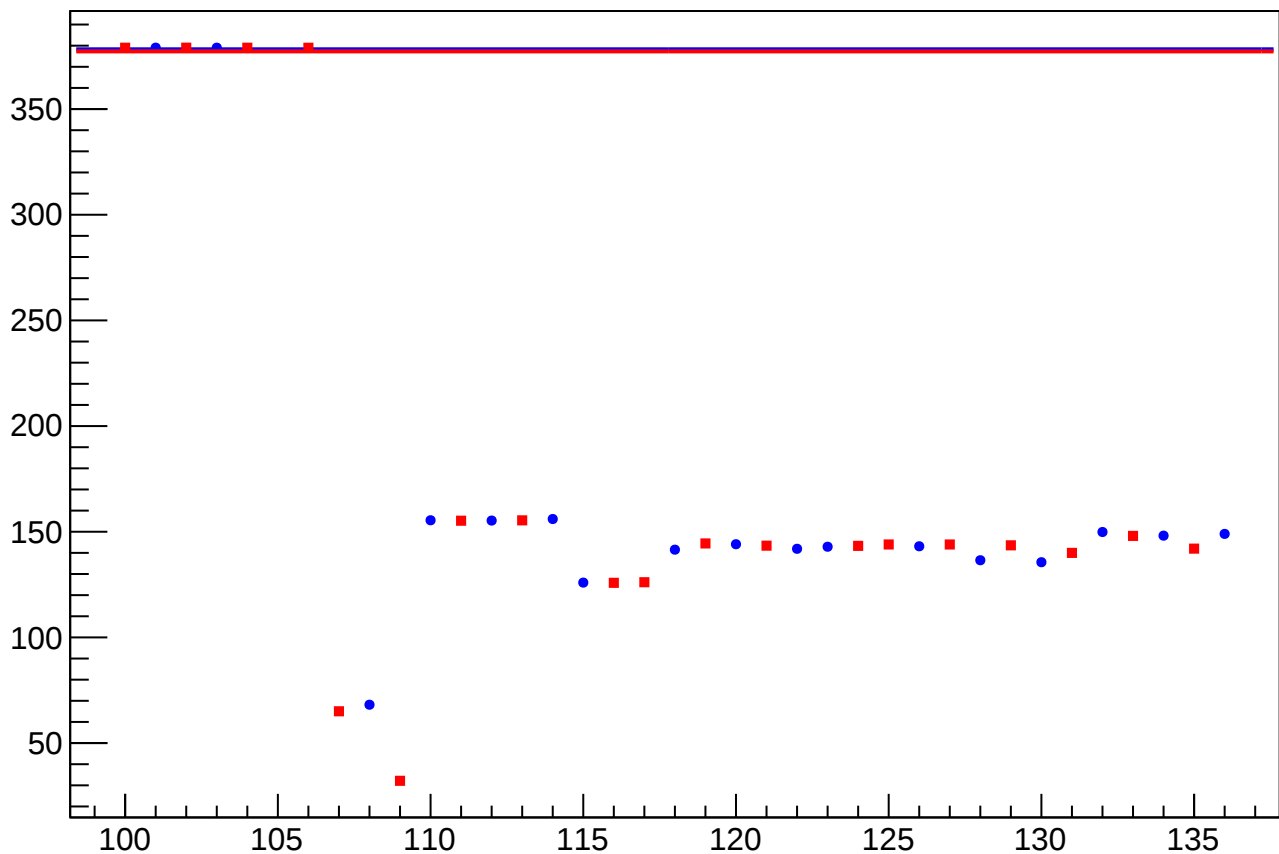
Right Out: 0.559+/-0.000  $\chi^2/\text{NDF}$ : 4721290.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.590+/-0.000  $\chi^2/\text{NDF}$ : 3491995.1/16

0.559+/-0.000  $\chi^2/\text{NDF}$ : 4721290.6/18

yield\_cav4dQ\_mean vs Slug



Right In: 378.283+/-0.000  $\chi^2/\text{NDF}$ : 2508313421453.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

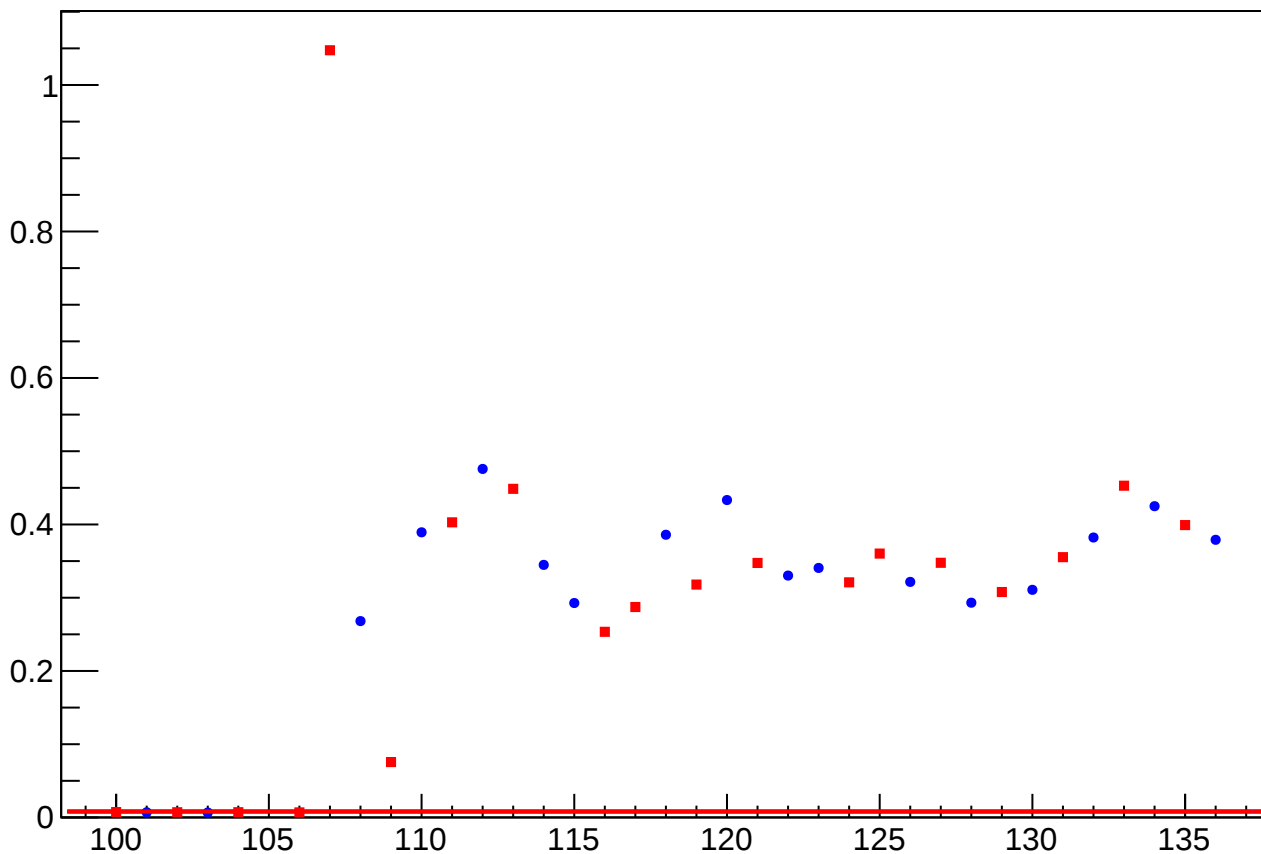
Right Out: 377.294+/-0.000  $\chi^2/\text{NDF}$ : 8265014406671.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

378.283+/-0.000  $\chi^2/\text{NDF}$ : 2508313421453.8/16

377.294+/-0.000  $\chi^2/\text{NDF}$ : 8265014406671.5/18

yield\_cav4dQ\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 9806719.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

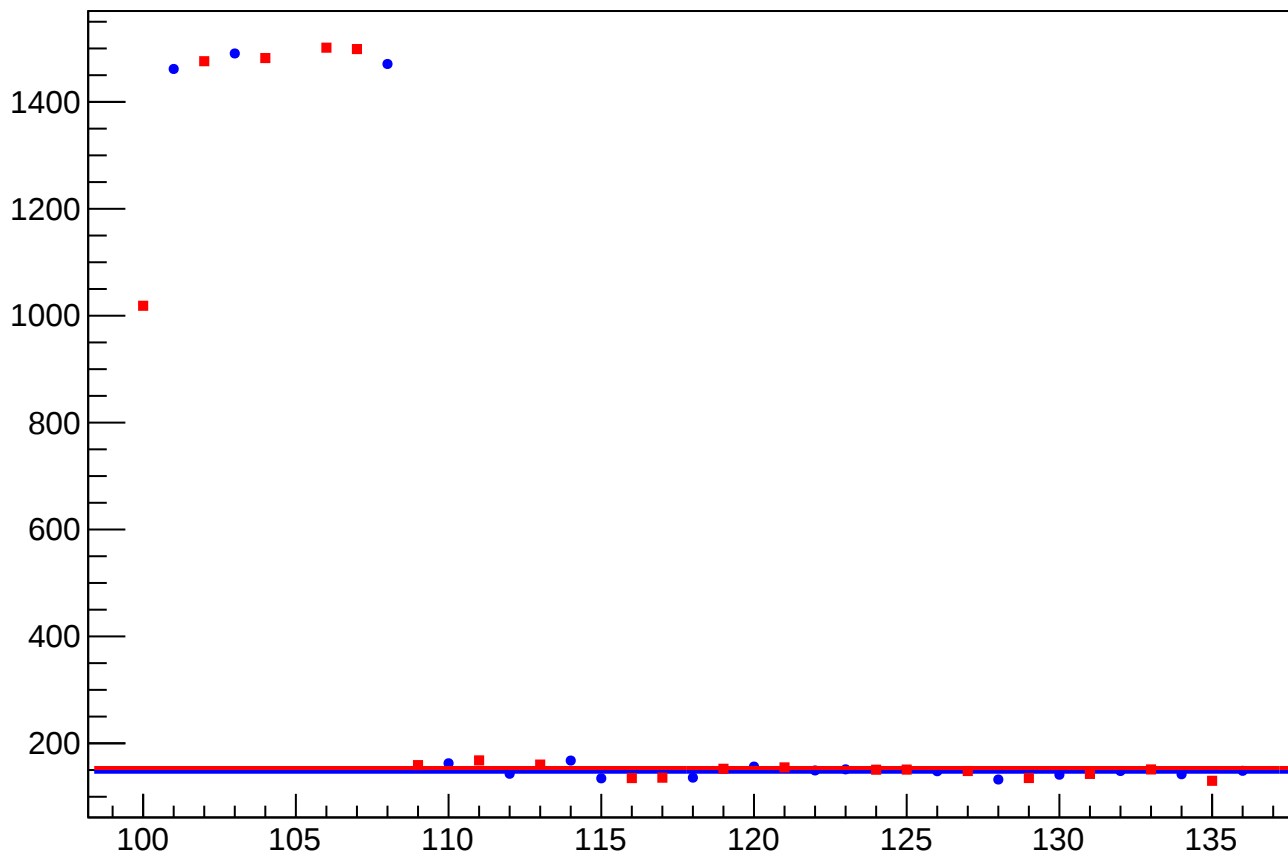
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 9230606.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.008+/-0.000  $\chi^2/\text{NDF}$ : 9806719.4/16

0.008+/-0.000  $\chi^2/\text{NDF}$ : 9230606.7/18

yield\_bcm0l02\_mean vs Slug



Right In: 146.819+/-0.000  $\chi^2/\text{NDF}$ : 24360774977.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

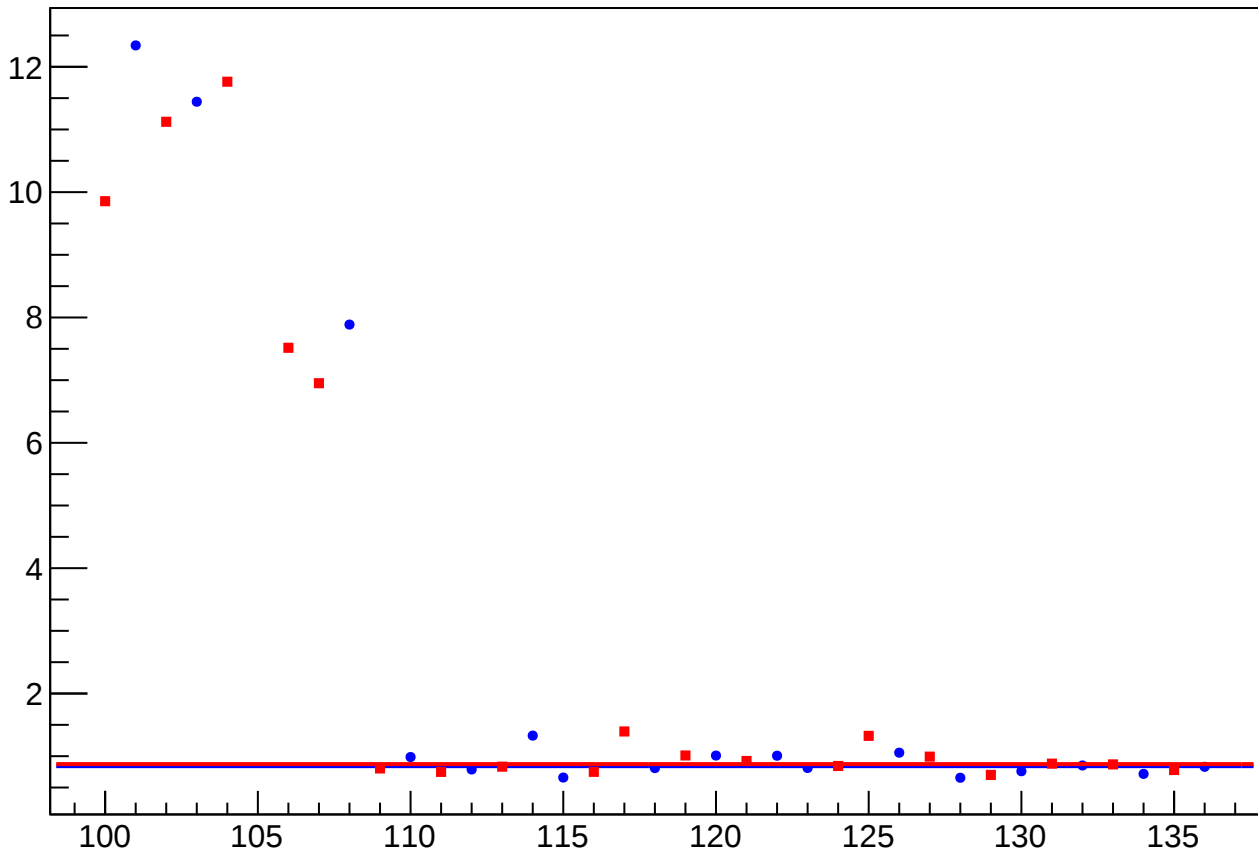
Right Out: 153.822+/-0.000  $\chi^2/\text{NDF}$ : 33744203897.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

146.819+/-0.000  $\chi^2/\text{NDF}$ : 24360774977.7/16

153.822+/-0.000  $\chi^2/\text{NDF}$ : 33744203897.9/18

# yield\_bcm0l02\_rms vs Slug



Right In: 0.841+/-0.000  $\chi^2/\text{NDF}$ : 2662395.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

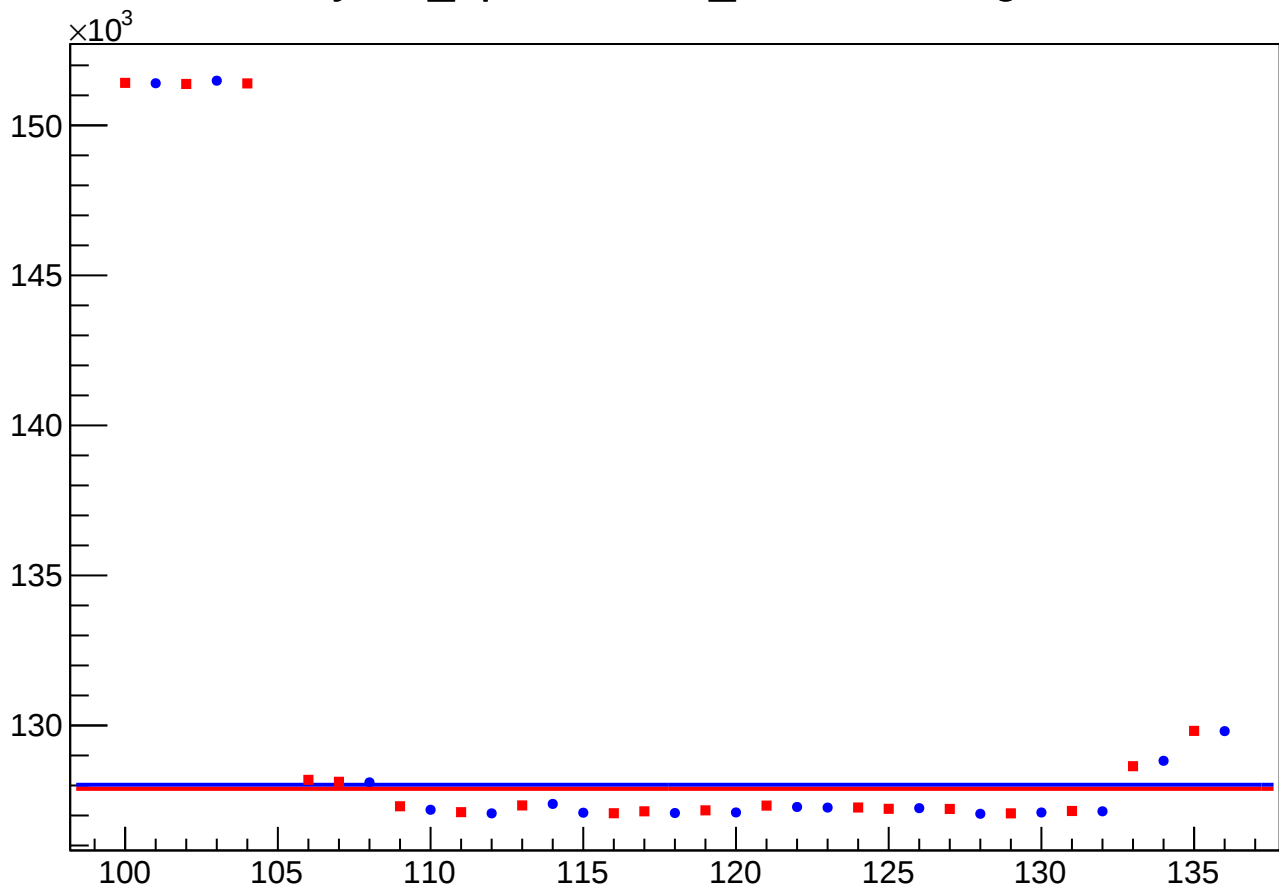
Right Out: 0.874+/-0.000  $\chi^2/\text{NDF}$ : 2799352.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.841+/-0.000  $\chi^2/\text{NDF}$ : 2662395.1/16

0.874+/-0.000  $\chi^2/\text{NDF}$ : 2799352.2/18

# yield\_bpm2i01WS\_mean vs Slug



Right In: 128023.527 $\pm$ 0.055  $\chi^2$ /NDF: 4316540586.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

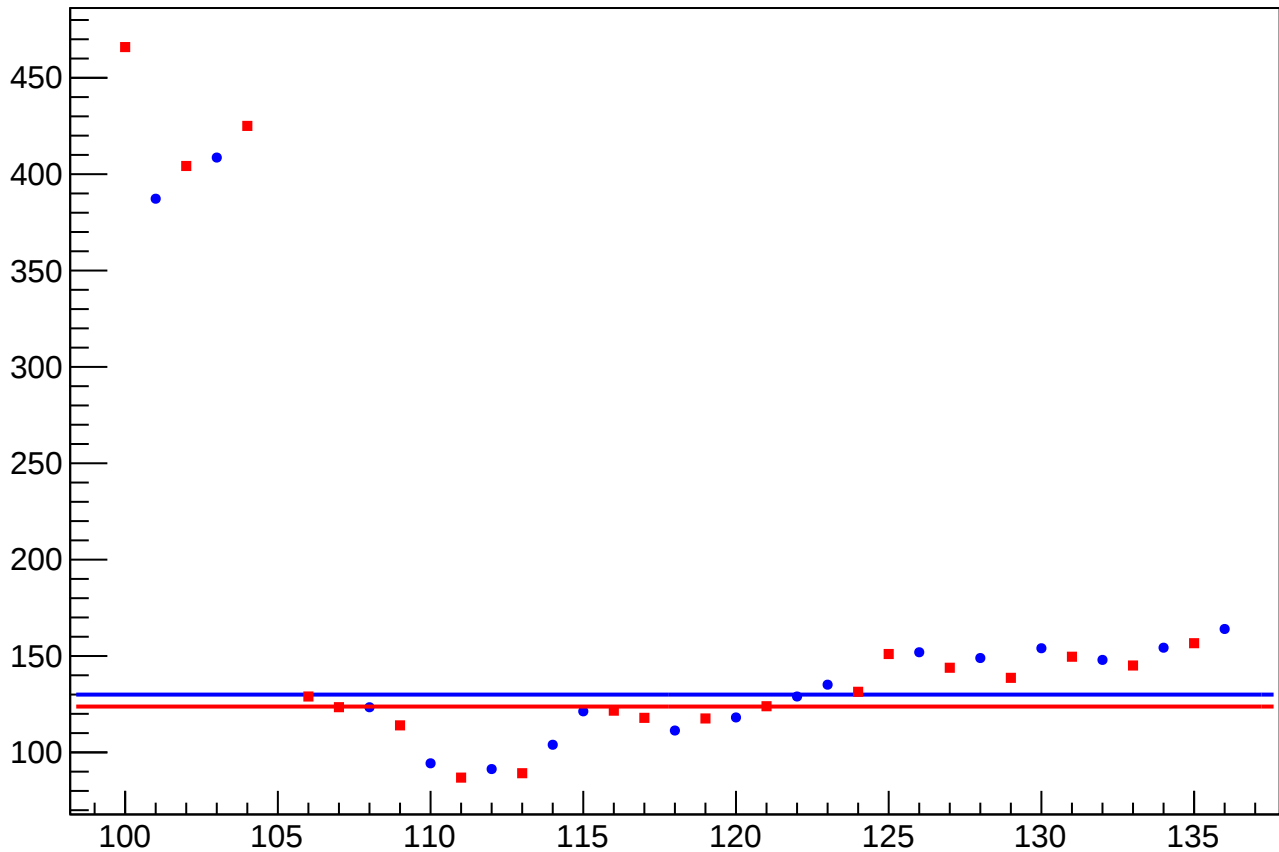
Right Out: 127887.555 $\pm$ 0.051  $\chi^2$ /NDF: 3742755058.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

128023.527 $\pm$ 0.055  $\chi^2$ /NDF: 4316540586.9/16

127887.555 $\pm$ 0.051  $\chi^2$ /NDF: 3742755058.3/18

# yield\_bpm2i01WS\_rms vs Slug



Right In: 129.980 $\pm$ 0.039  $\chi^2$ /NDF: 1485519.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

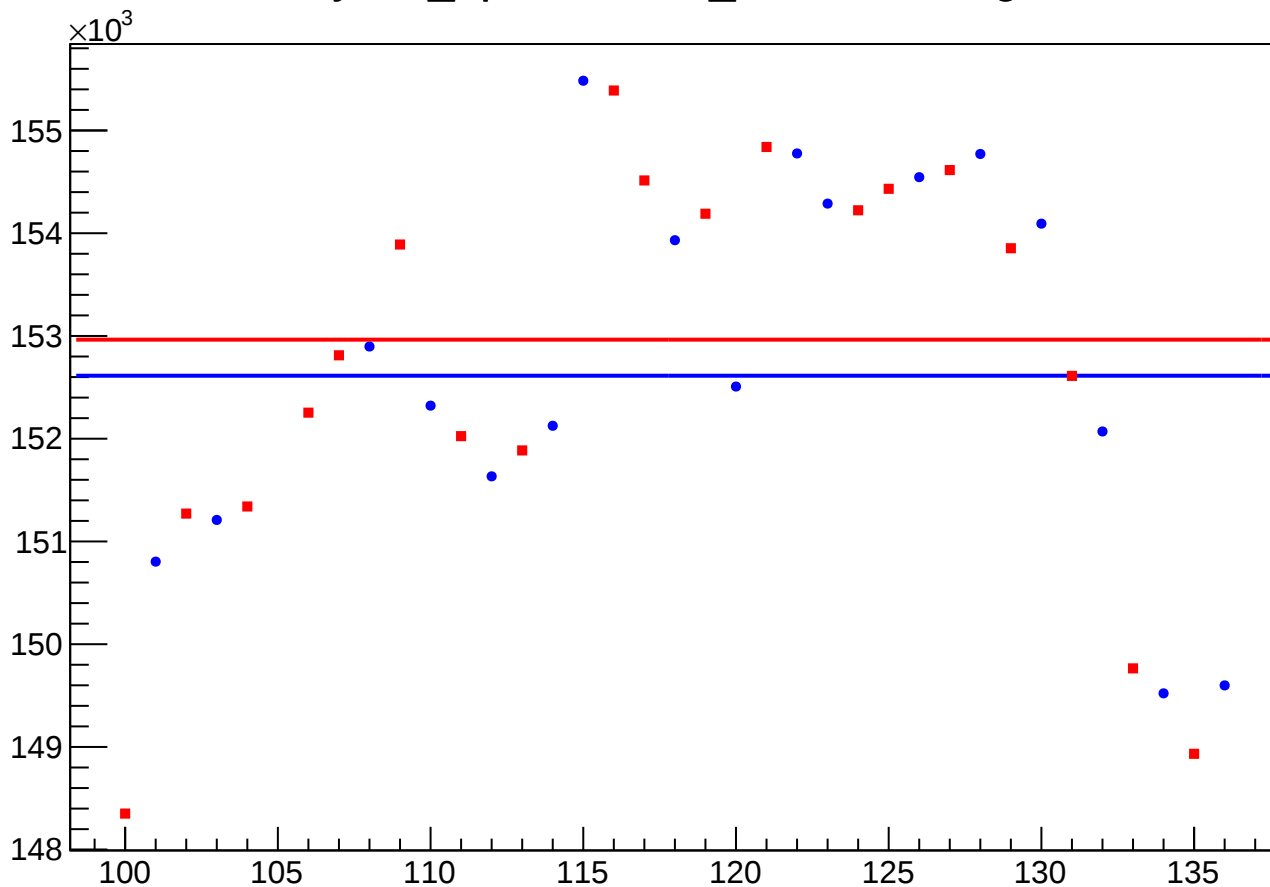
129.980 $\pm$ 0.039  $\chi^2$ /NDF: 1485519.5/16

Right Out: 123.776 $\pm$ 0.036  $\chi^2$ /NDF: 1506479.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

123.776 $\pm$ 0.036  $\chi^2$ /NDF: 1506479.6/18

# yield\_bpm0i07WS\_mean vs Slug



Right In: 152613.122 $\pm$ 0.072  $\chi^2$ /NDF: 623356098.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

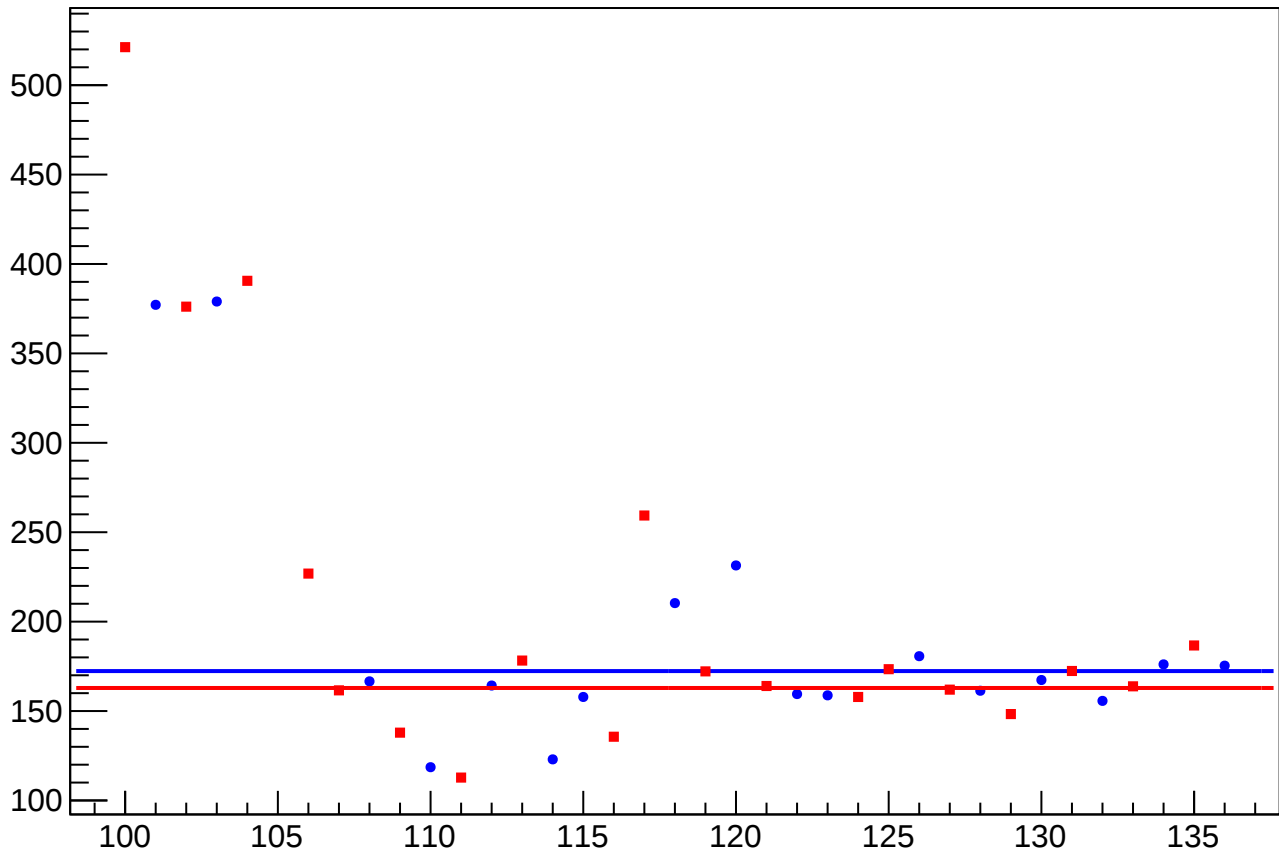
Right Out: 152964.092 $\pm$ 0.067  $\chi^2$ /NDF: 656567186.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

152613.122 $\pm$ 0.072  $\chi^2$ /NDF: 623356098.4/16

152964.092 $\pm$ 0.067  $\chi^2$ /NDF: 656567186.3/18

# yield\_bpm0i07WS\_rms vs Slug



Right In:  $172.351 \pm 0.051$   $\chi^2/\text{NDF}: 921911.1/16$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

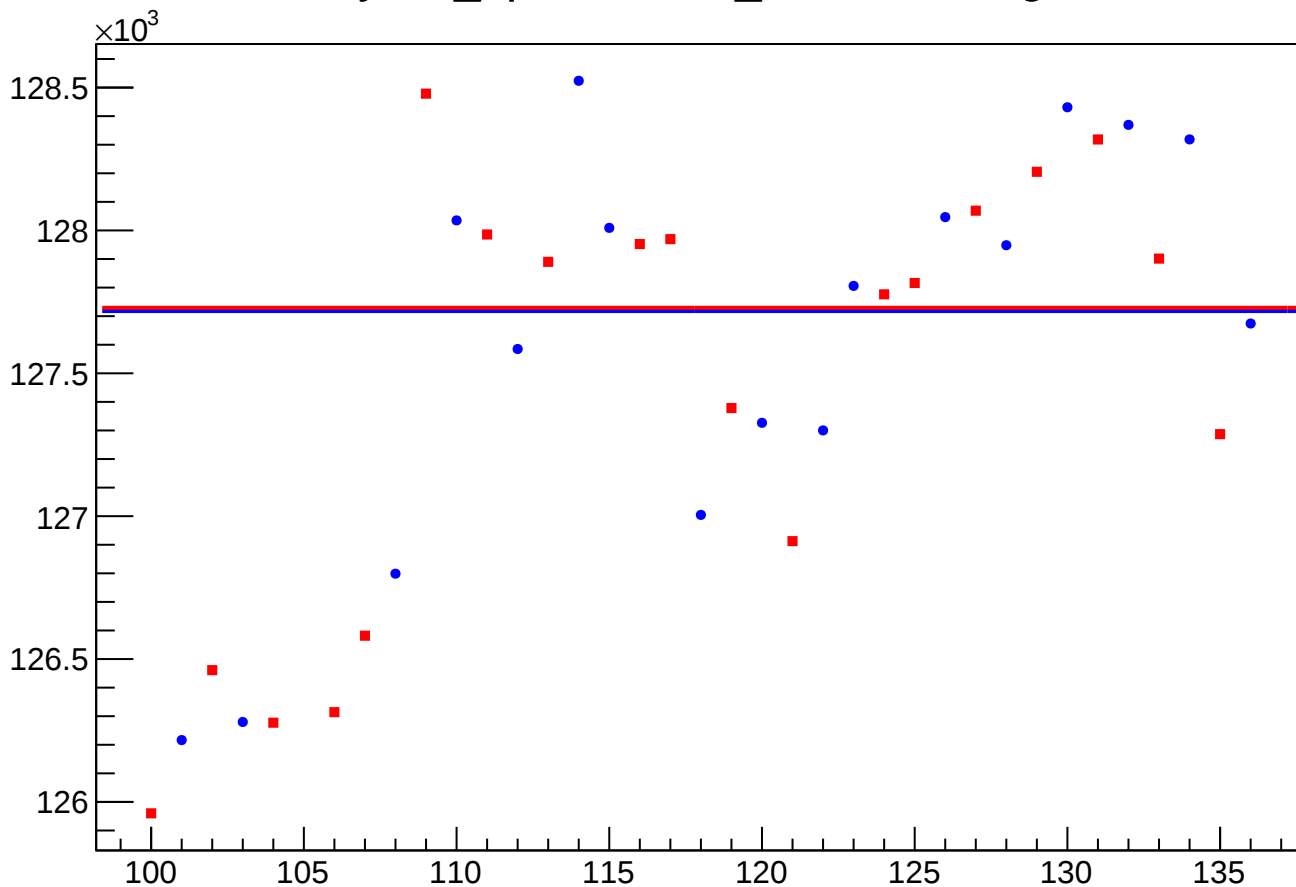
Right Out:  $162.898 \pm 0.047$   $\chi^2/\text{NDF}: 1041026.4/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$172.351 \pm 0.051$   $\chi^2/\text{NDF}: 921911.1/16$

$162.898 \pm 0.047$   $\chi^2/\text{NDF}: 1041026.4/18$

# yield\_bpm0l01WS\_mean vs Slug



Right In: 127717.888 $\pm$ 0.058  $\chi^2$ /NDF: 95177660.2/16

127717.888 $\pm$ 0.058  $\chi^2$ /NDF: 95177660.2/16

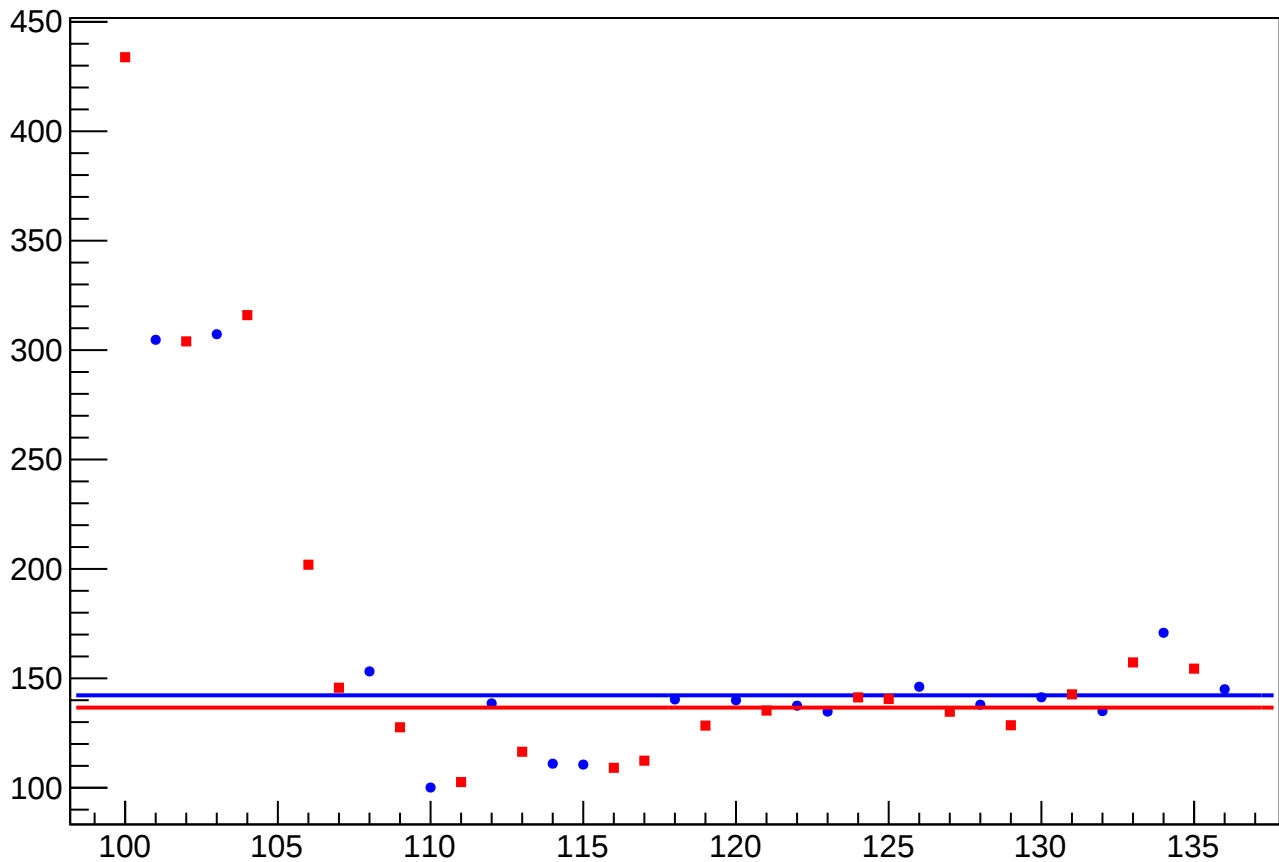
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127729.378 $\pm$ 0.055  $\chi^2$ /NDF: 112676369.6/18

127729.378 $\pm$ 0.055  $\chi^2$ /NDF: 112676369.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l01WS\_rms vs Slug



Right In: 142.240 $\pm$ 0.041  $\chi^2$ /NDF: 836415.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

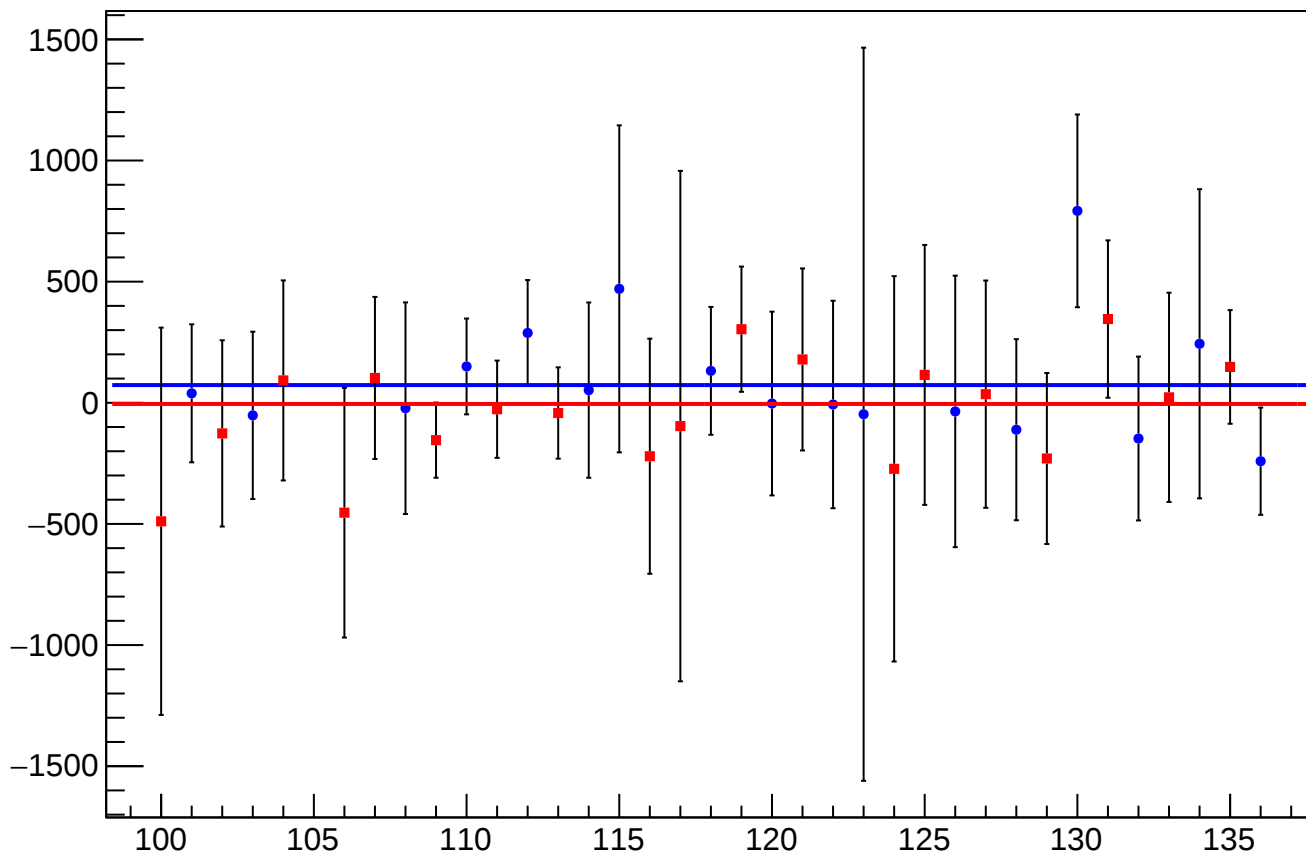
Right Out: 136.633 $\pm$ 0.039  $\chi^2$ /NDF: 959934.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

142.240 $\pm$ 0.041  $\chi^2$ /NDF: 836415.1/16

136.633 $\pm$ 0.039  $\chi^2$ /NDF: 959934.9/18

# asym\_bcm\_an\_ds\_mean vs Slug



Right In: 73.109+/-79.604  $\chi^2/\text{NDF}$ : 7.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

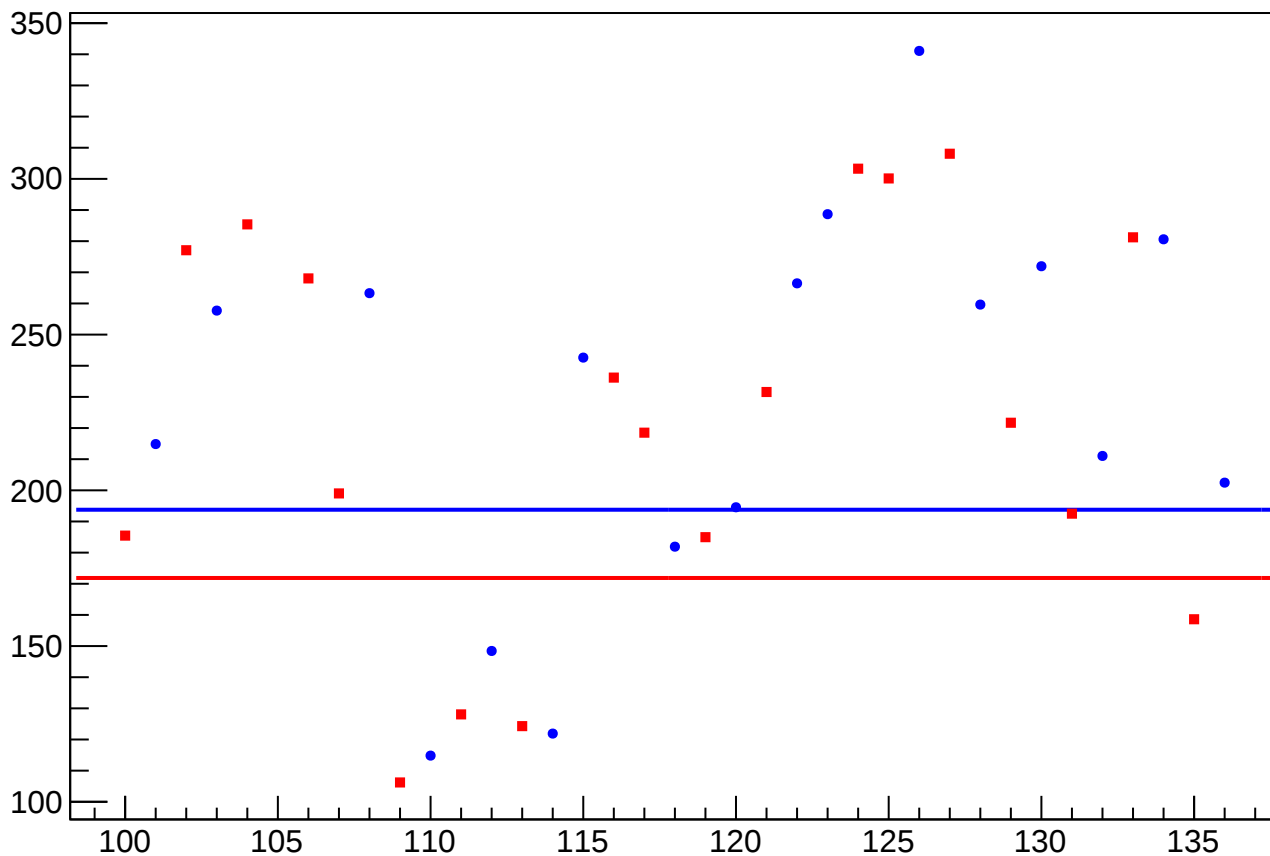
Right Out: -4.795+/-70.842  $\chi^2/\text{NDF}$ : 6.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

73.109+/-79.604  $\chi^2/\text{NDF}$ : 7.9/16

-4.795+/-70.842  $\chi^2/\text{NDF}$ : 6.4/18

# asym\_bcm\_an\_ds\_rms vs Slug



Right In: 193.773+/-0.056  $\chi^2/\text{NDF}$ : 1017081.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

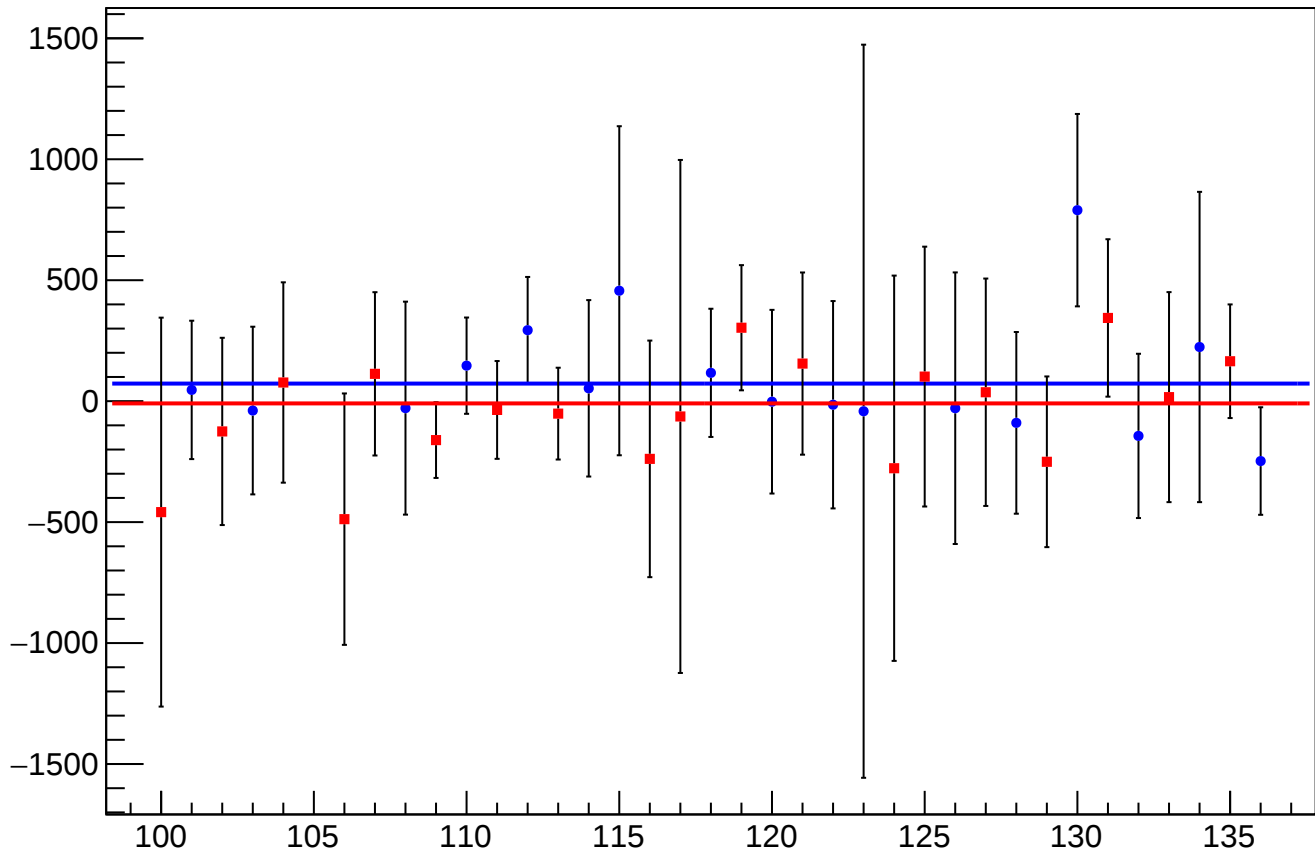
Right Out: 171.861+/-0.050  $\chi^2/\text{NDF}$ : 1580166.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

193.773+/-0.056  $\chi^2/\text{NDF}$ : 1017081.7/16

171.861+/-0.050  $\chi^2/\text{NDF}$ : 1580166.7/18

# asym\_bcm\_an\_ds3\_mean vs Slug



Right In: 72.675+/-79.992  $\chi^2/\text{NDF}$ : 7.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

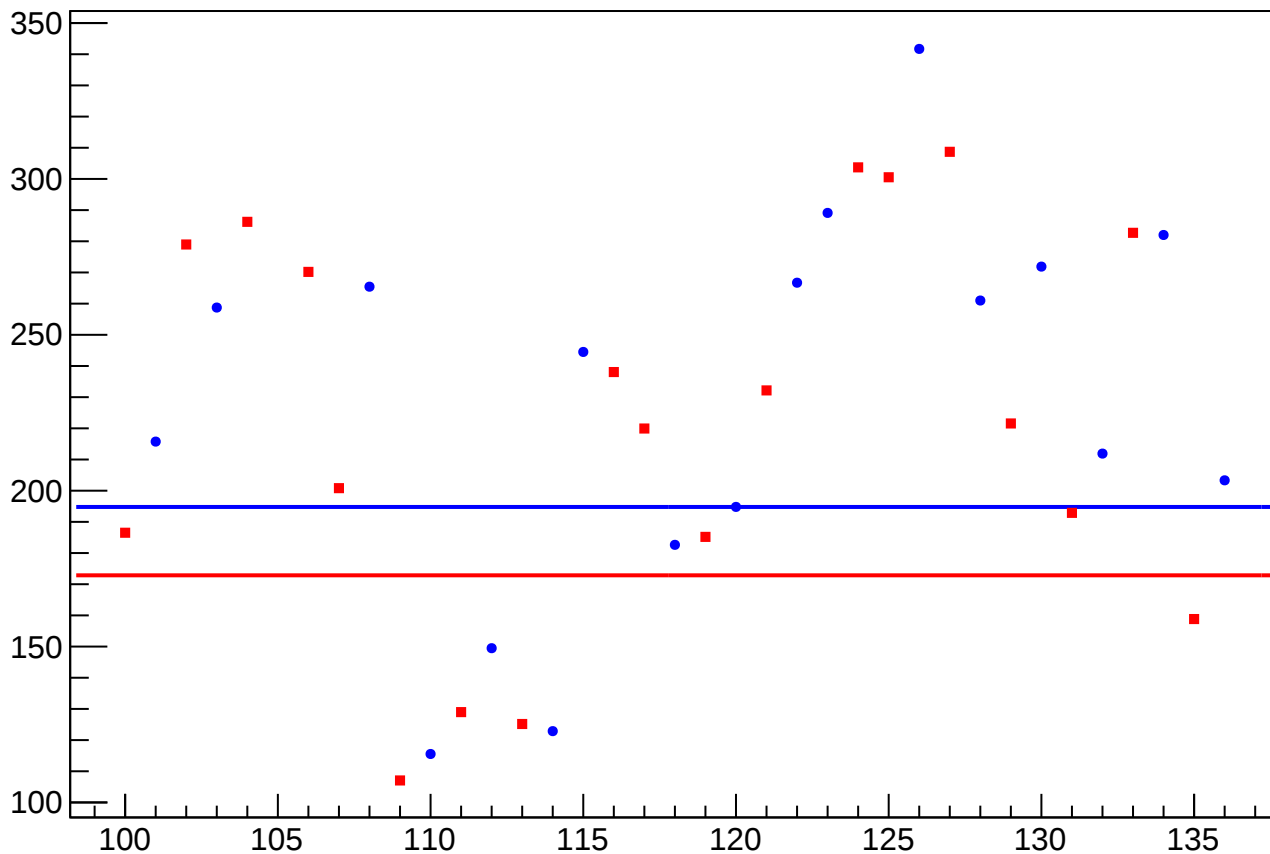
Right Out: -9.284+/-71.216  $\chi^2/\text{NDF}$ : 6.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

72.675+/-79.992  $\chi^2/\text{NDF}$ : 7.8/16

-9.284+/-71.216  $\chi^2/\text{NDF}$ : 6.7/18

# asym\_bcm\_an\_ds3\_rms vs Slug



Right In: 194.782 $\pm$ 0.057  $\chi^2$ /NDF: 1008292.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

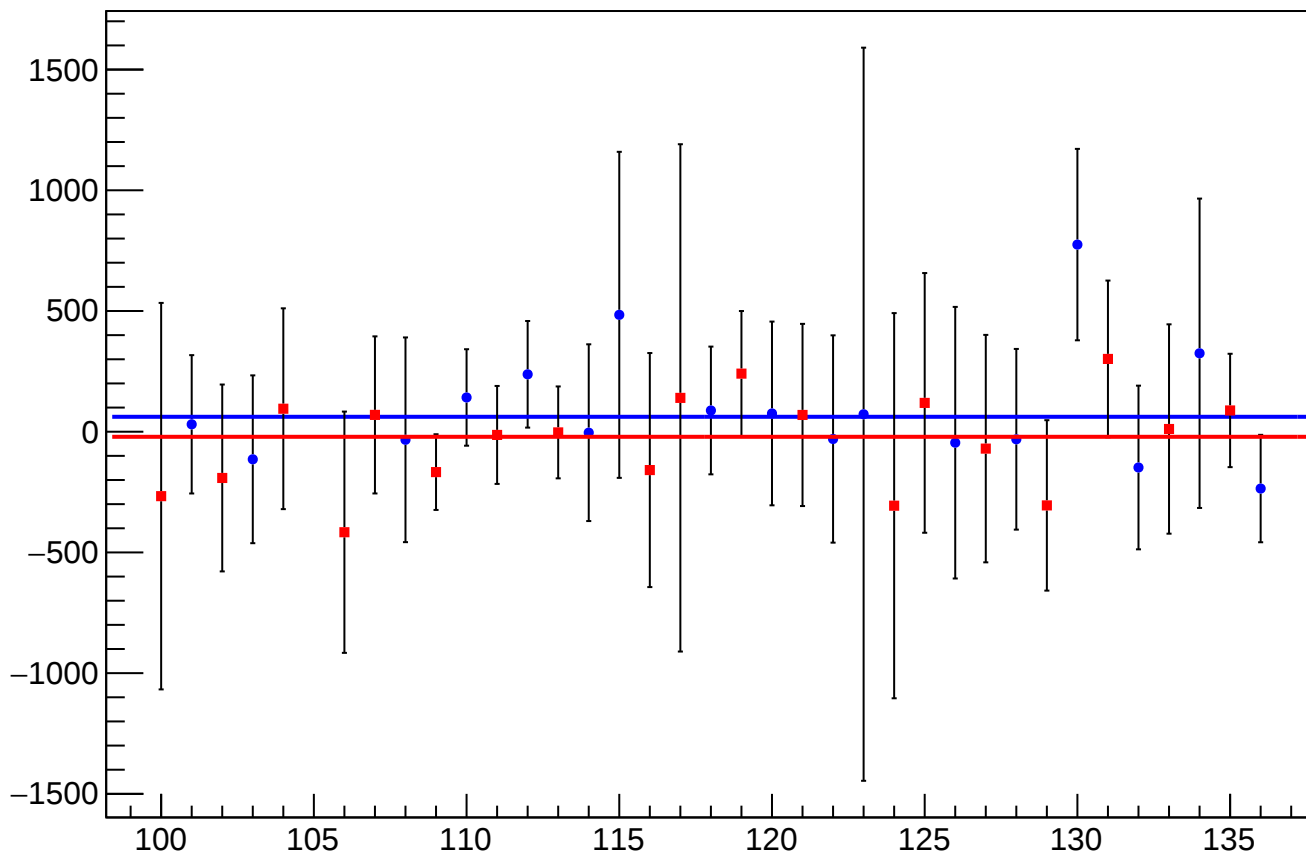
Right Out: 172.855 $\pm$ 0.050  $\chi^2$ /NDF: 1567796.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

194.782 $\pm$ 0.057  $\chi^2$ /NDF: 1008292.8/16

172.855 $\pm$ 0.050  $\chi^2$ /NDF: 1567796.9/18

# asym\_bcm\_an\_us\_mean vs Slug



Right In: 61.814+/-79.986  $\chi^2/\text{NDF}$ : 7.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

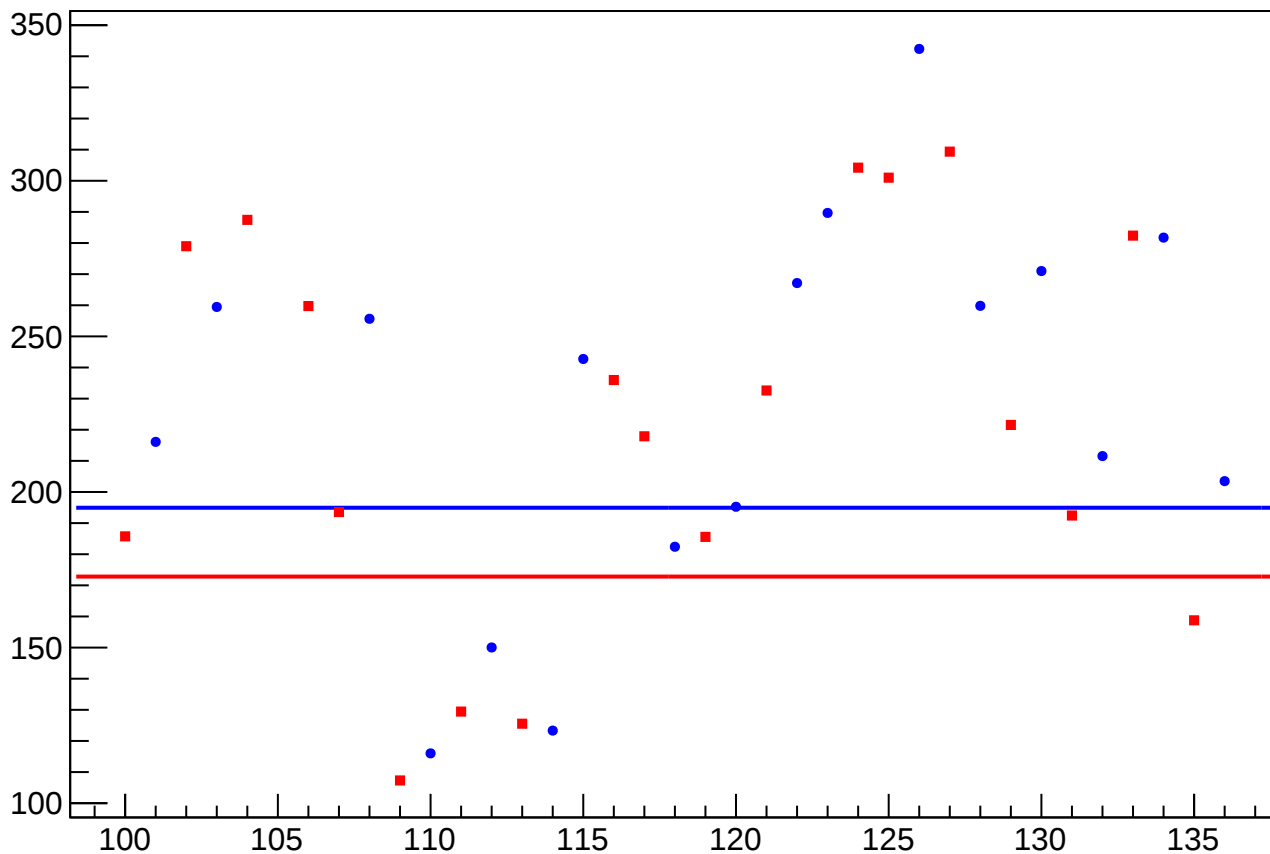
Right Out: -21.059+/-71.132  $\chi^2/\text{NDF}$ : 5.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

61.814+/-79.986  $\chi^2/\text{NDF}$ : 7.3/16

-21.059+/-71.132  $\chi^2/\text{NDF}$ : 5.2/18

# asym\_bcm\_an\_us\_rms vs Slug



Right In: 194.939 $\pm$ 0.057  $\chi^2$ /NDF: 986629.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

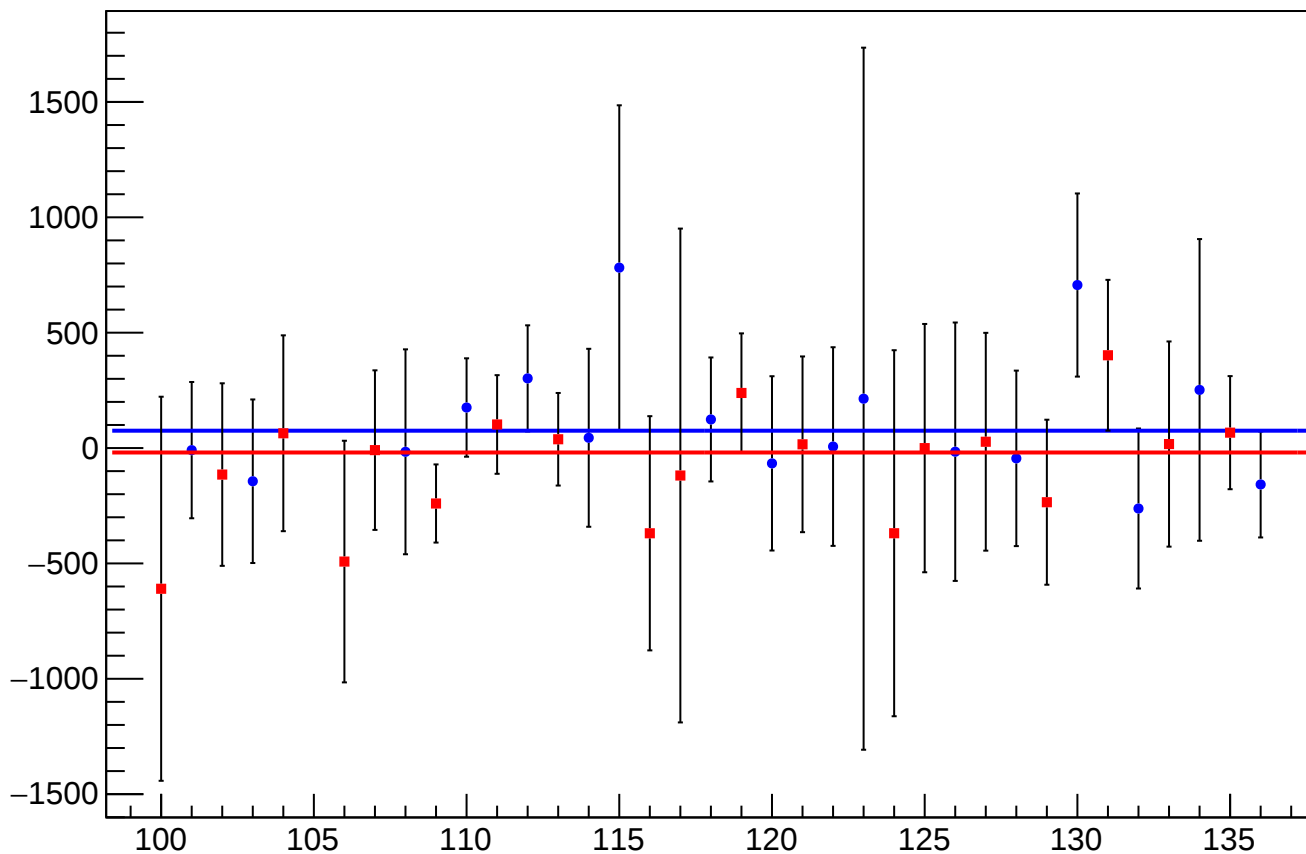
Right Out: 172.822 $\pm$ 0.050  $\chi^2$ /NDF: 1544607.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

194.939 $\pm$ 0.057  $\chi^2$ /NDF: 986629.1/16

172.822 $\pm$ 0.050  $\chi^2$ /NDF: 1544607.2/18

# asym\_bcm\_dg\_us\_mean vs Slug



Right In: 75.207 $\pm$ 82.504  $\chi^2$ /NDF: 7.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

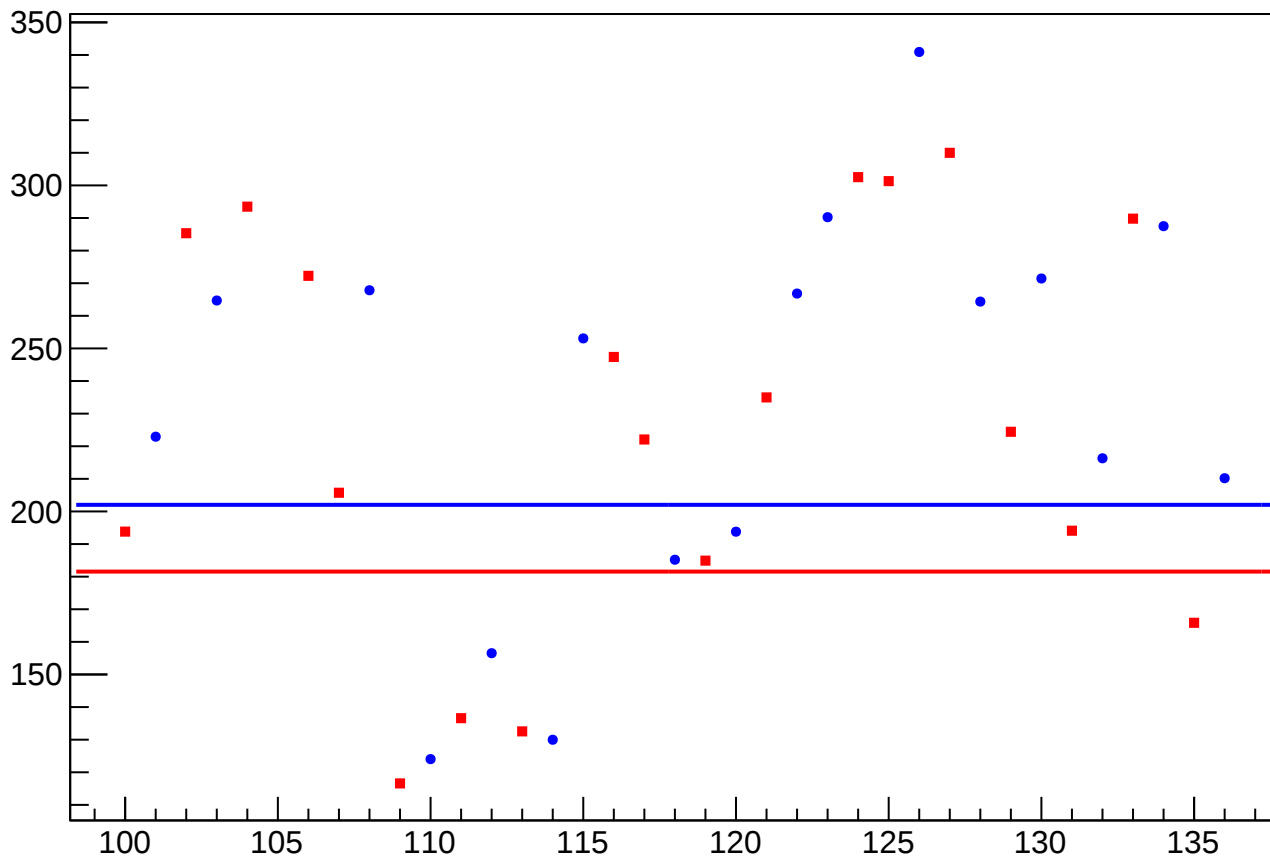
Right Out: -19.257 $\pm$ 74.113  $\chi^2$ /NDF: 7.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

75.207 $\pm$ 82.504  $\chi^2$ /NDF: 7.6/16

-19.257 $\pm$ 74.113  $\chi^2$ /NDF: 7.4/18

# asym\_bcm\_dg\_us\_rms vs Slug



Right In: 202.029 $\pm$ 0.058  $\chi^2$ /NDF: 881608.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

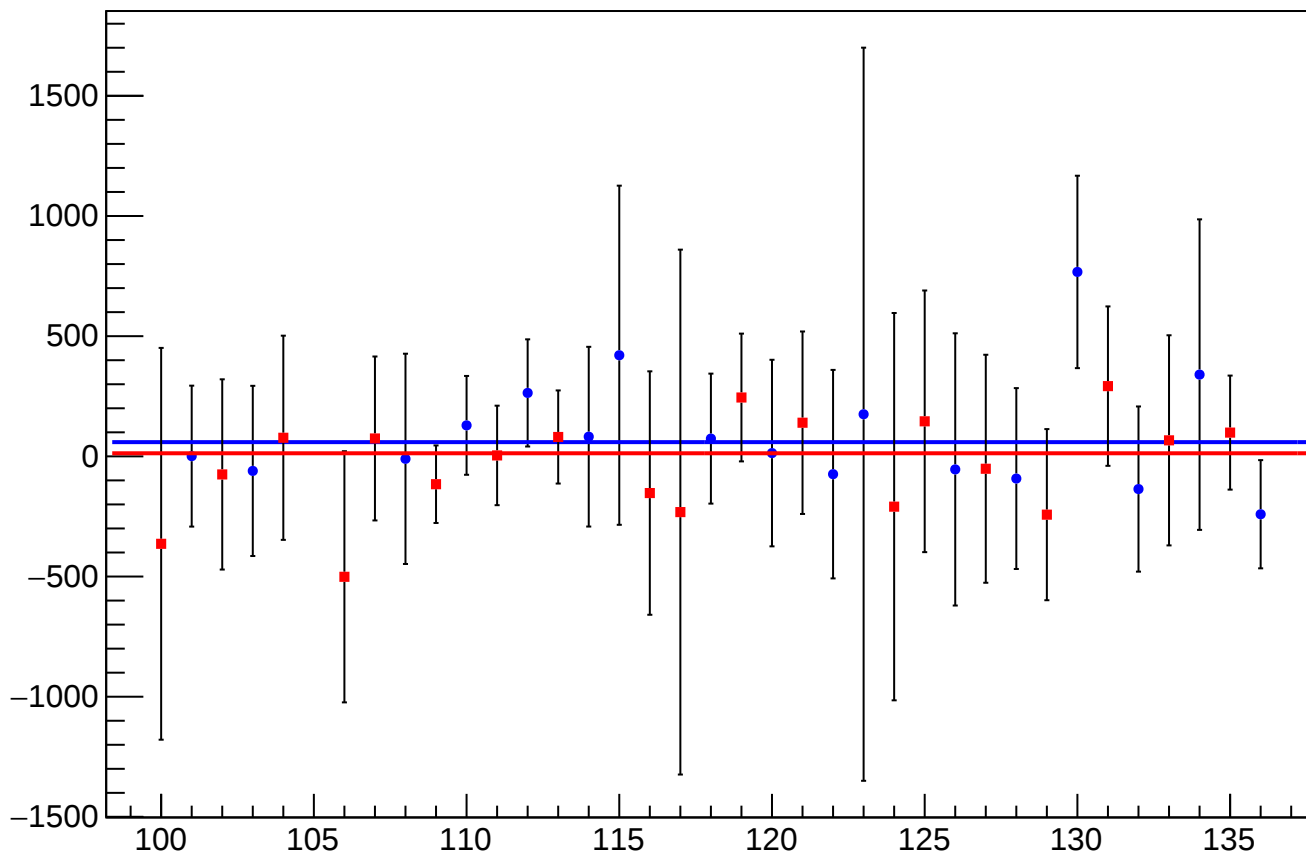
Right Out: 181.552 $\pm$ 0.052  $\chi^2$ /NDF: 1377483.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

202.029 $\pm$ 0.058  $\chi^2$ /NDF: 881608.7/16

181.552 $\pm$ 0.052  $\chi^2$ /NDF: 1377483.2/18

# asym\_bcm\_dg\_ds\_mean vs Slug



Right In: 59.175+/-81.417  $\chi^2/\text{NDF}$ : 7.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

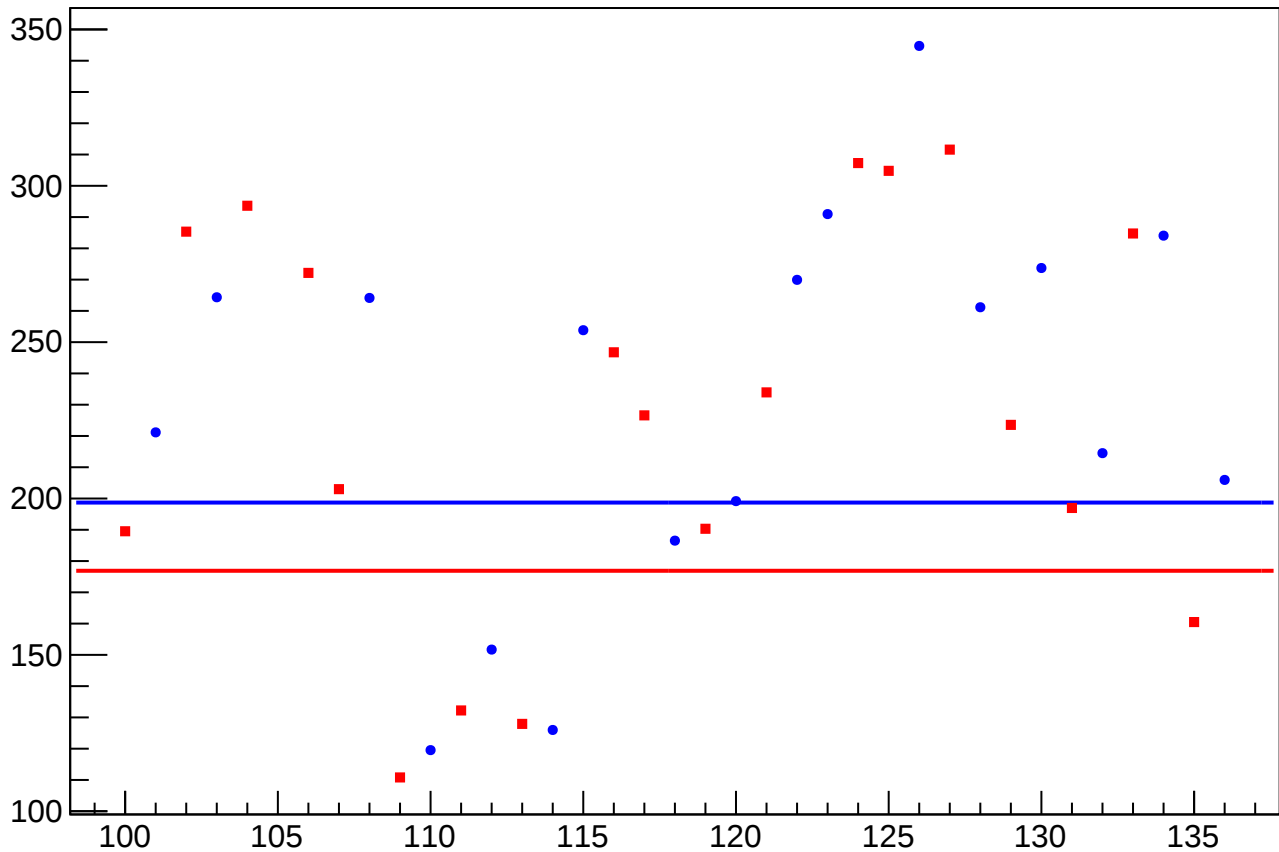
Right Out: 12.828+/-72.683  $\chi^2/\text{NDF}$ : 4.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

59.175+/-81.417  $\chi^2/\text{NDF}$ : 7.1/16

12.828+/-72.683  $\chi^2/\text{NDF}$ : 4.6/18

# asym\_bcm\_dg\_ds\_rms vs Slug



Right In: 198.704 $\pm$ 0.058  $\chi^2$ /NDF: 963394.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

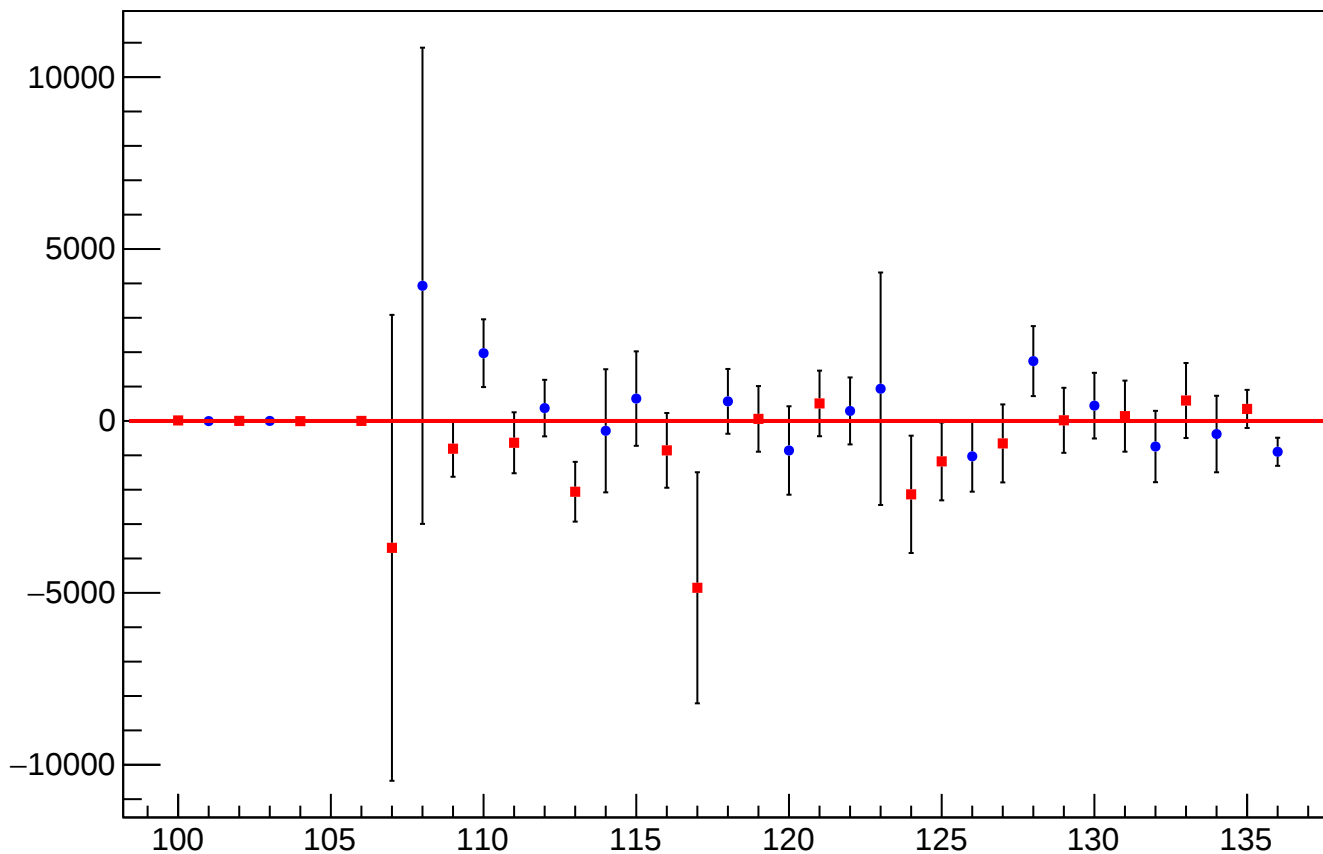
198.704 $\pm$ 0.058  $\chi^2$ /NDF: 963394.4/16

Right Out: 176.892 $\pm$ 0.051  $\chi^2$ /NDF: 1526031.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

176.892 $\pm$ 0.051  $\chi^2$ /NDF: 1526031.9/18

# asym\_cav4bQ\_mean vs Slug



Right In: -1.529+/-2.251  $\chi^2/\text{NDF}$ : 16.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

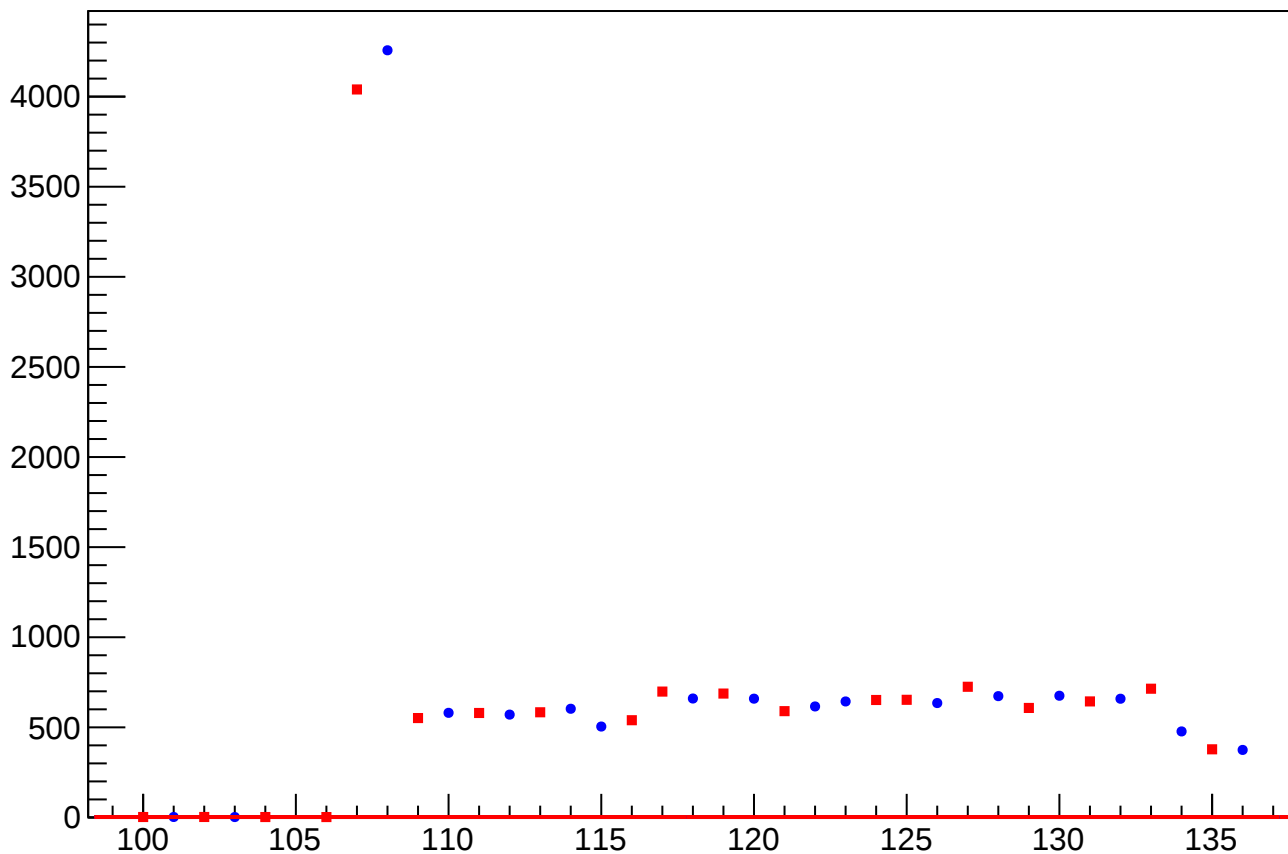
Right Out: -0.737+/-2.111  $\chi^2/\text{NDF}$ : 20.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.529+/-2.251  $\chi^2/\text{NDF}$ : 16.6/16

-0.737+/-2.111  $\chi^2/\text{NDF}$ : 20.0/18

# asym\_cav4bQ\_rms vs Slug



Right In: 2.456+/-0.002     $\chi^2/\text{NDF}$ : 10706347.4/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

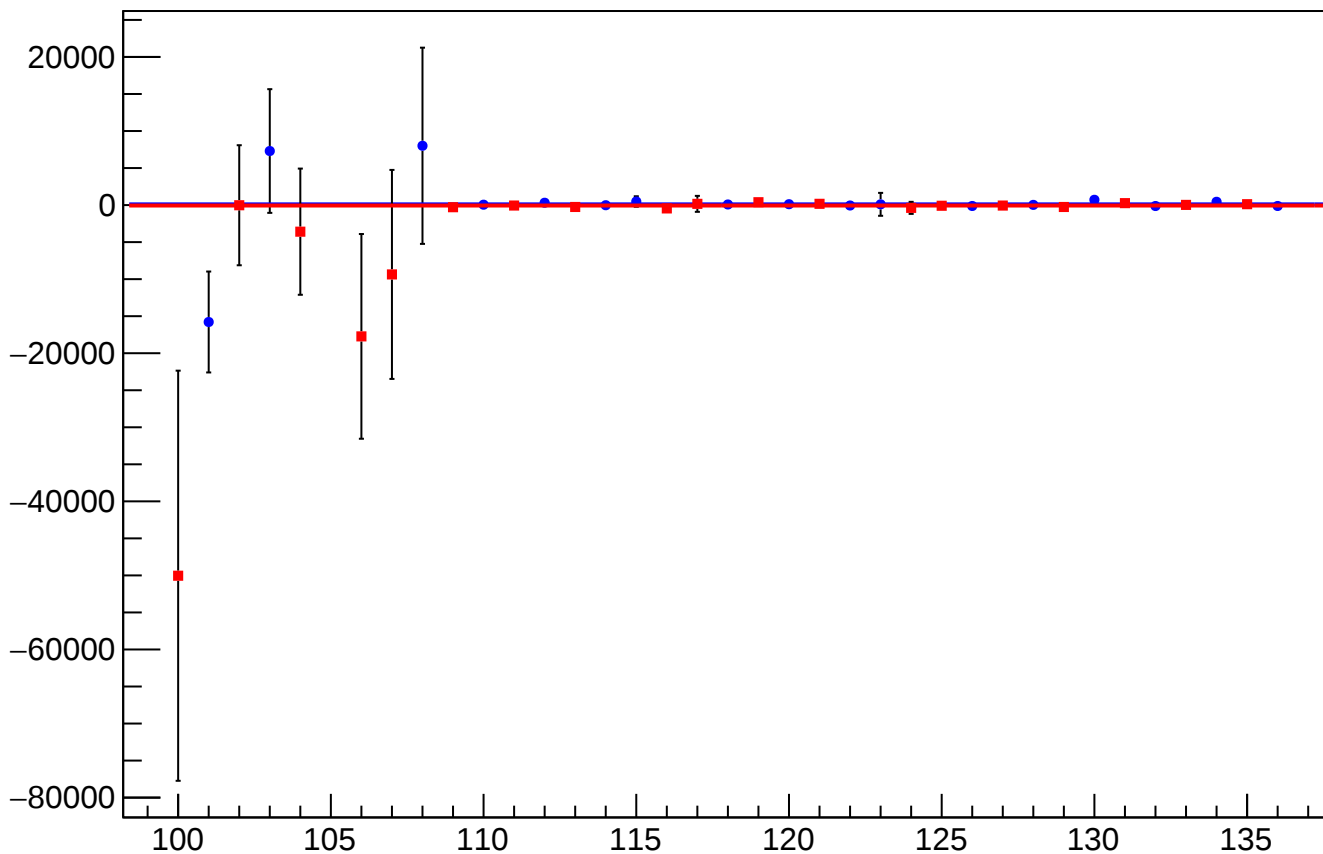
Right Out: 2.435+/-0.001     $\chi^2/\text{NDF}$ : 10854937.0/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

2.456+/-0.002     $\chi^2/\text{NDF}$ : 10706347.4/16

2.435+/-0.001     $\chi^2/\text{NDF}$ : 10854937.0/18

asym\_cav4cQ\_mean vs Slug



Right In: 95.353+/-91.708  $\chi^2/\text{NDF}$ : 12.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

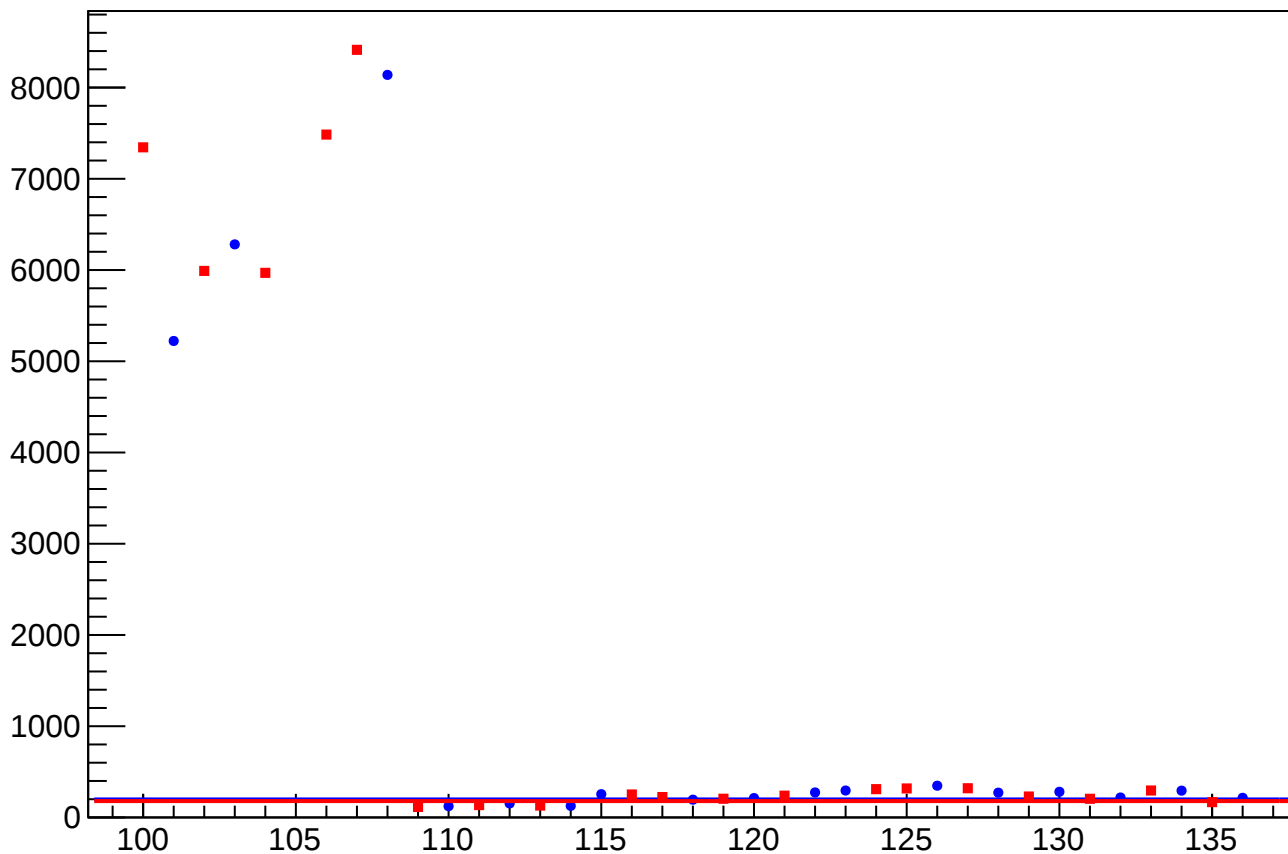
Right Out: -58.534+/-85.655  $\chi^2/\text{NDF}$ : 12.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

95.353+/-91.708  $\chi^2/\text{NDF}$ : 12.0/16

-58.534+/-85.655  $\chi^2/\text{NDF}$ : 12.8/18

# asym\_cav4cQ\_rms vs Slug



Right In: 197.422+/-0.065  $\chi^2/\text{NDF}$ : 3695848.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

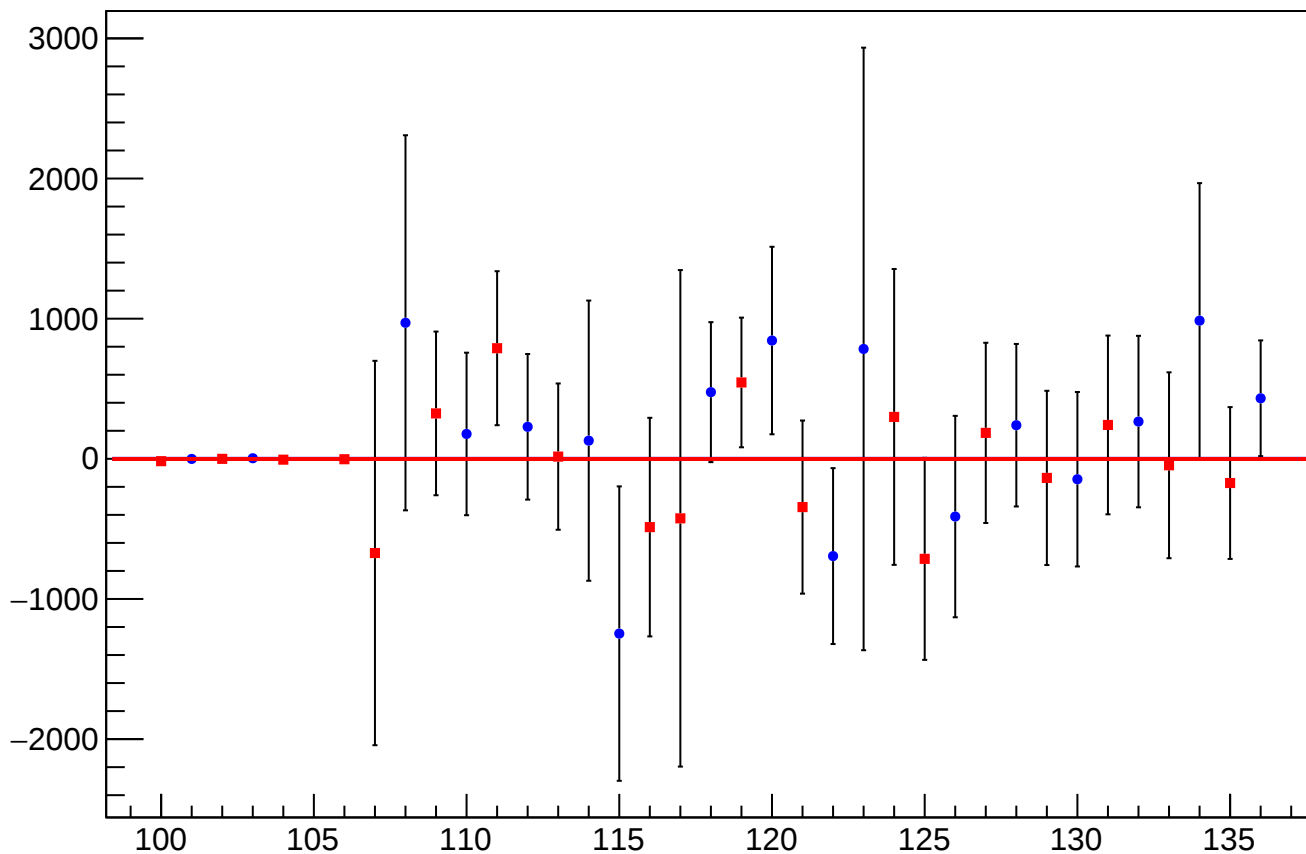
Right Out: 179.436+/-0.061  $\chi^2/\text{NDF}$ : 4318974.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

197.422+/-0.065  $\chi^2/\text{NDF}$ : 3695848.3/16

179.436+/-0.061  $\chi^2/\text{NDF}$ : 4318974.7/18

# asym\_cav4dQ\_mean vs Slug



Right In: -0.139+/-1.737  $\chi^2/\text{NDF}$ : 9.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

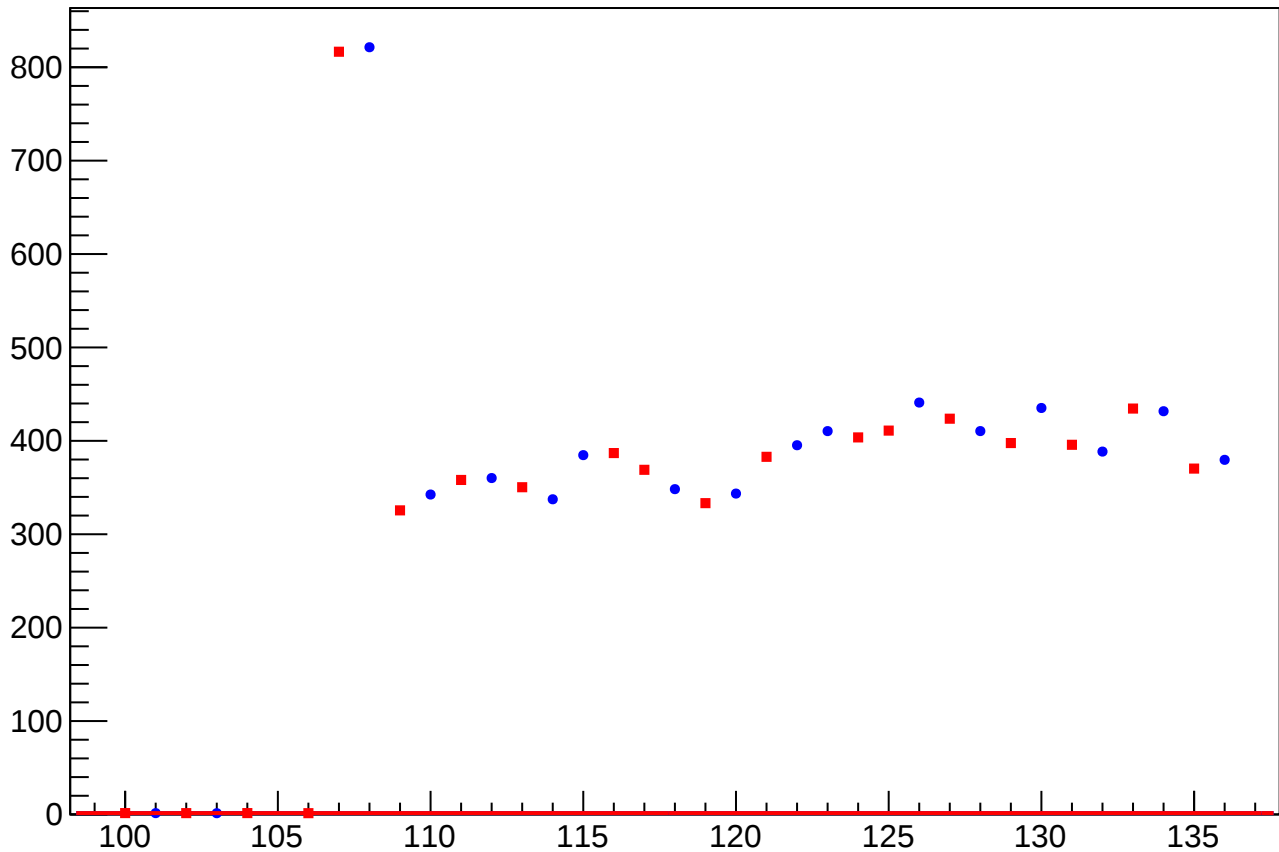
Right Out: -1.326+/-1.623  $\chi^2/\text{NDF}$ : 8.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.139+/-1.737  $\chi^2/\text{NDF}$ : 9.8/16

-1.326+/-1.623  $\chi^2/\text{NDF}$ : 8.9/18

# asym\_cav4dQ\_rms vs Slug



Right In: 1.452+/-0.001  $\chi^2/\text{NDF}$ : 10815892.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

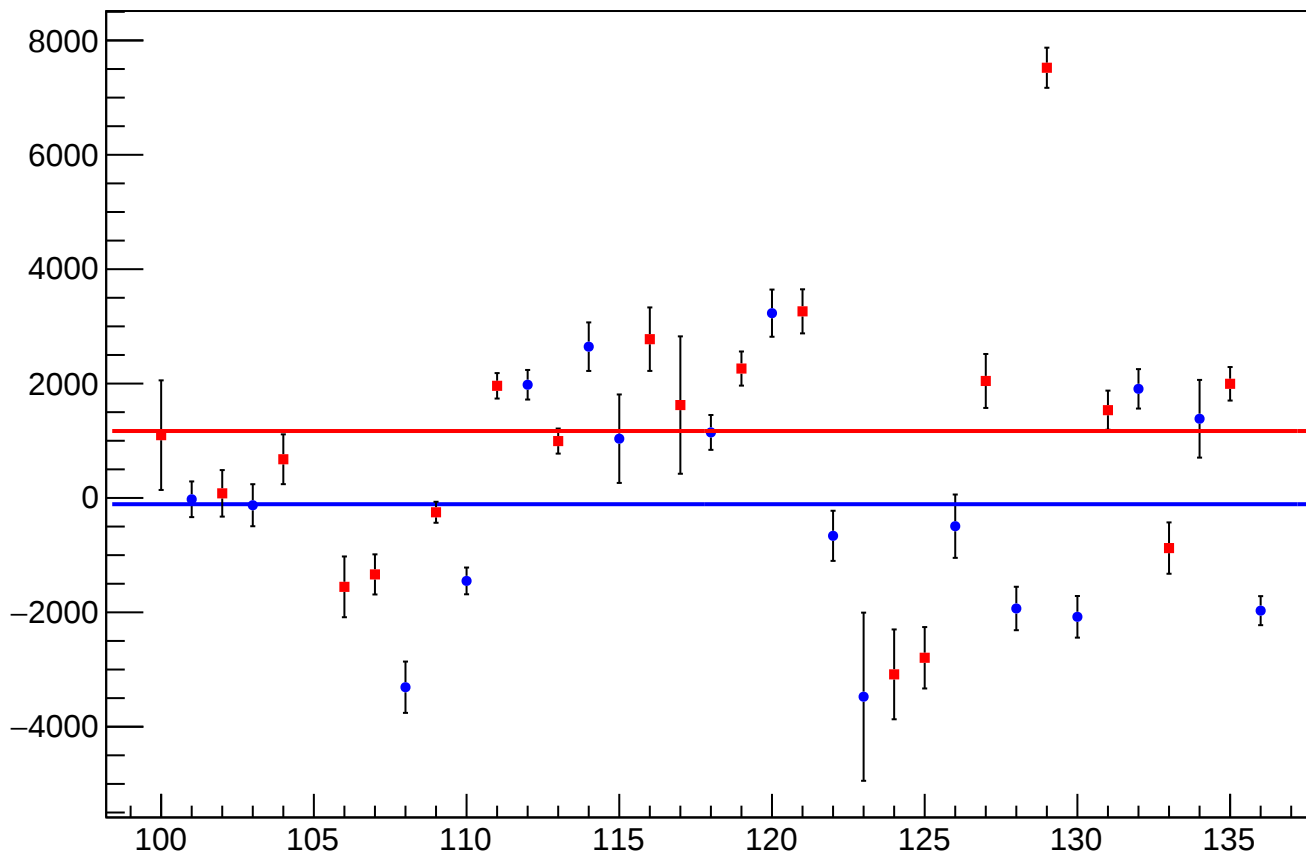
Right Out: 1.450+/-0.001  $\chi^2/\text{NDF}$ : 10584712.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.452+/-0.001  $\chi^2/\text{NDF}$ : 10815892.9/16

1.450+/-0.001  $\chi^2/\text{NDF}$ : 10584712.5/18

# asym\_bcm0l02\_mean vs Slug



Right In: -109.225+/-87.961  $\chi^2/\text{NDF}$ : 428.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

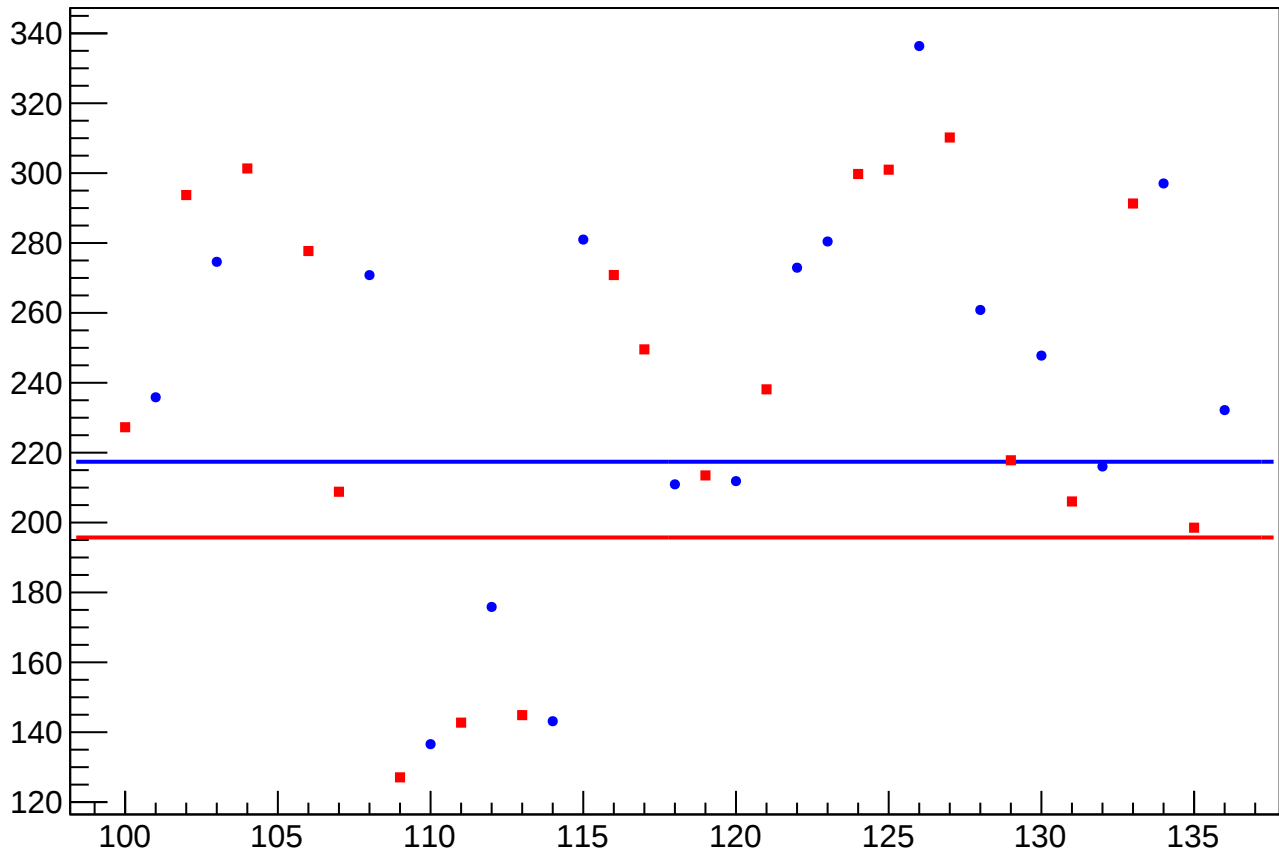
Right Out: 1170.527+/-79.163  $\chi^2/\text{NDF}$ : 655.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-109.225+/-87.961  $\chi^2/\text{NDF}$ : 428.3/16

1170.527+/-79.163  $\chi^2/\text{NDF}$ : 655.1/18

# asym\_bcm0l02\_rms vs Slug



Right In: 217.403 $\pm$ 0.062  $\chi^2$ /NDF: 652632.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

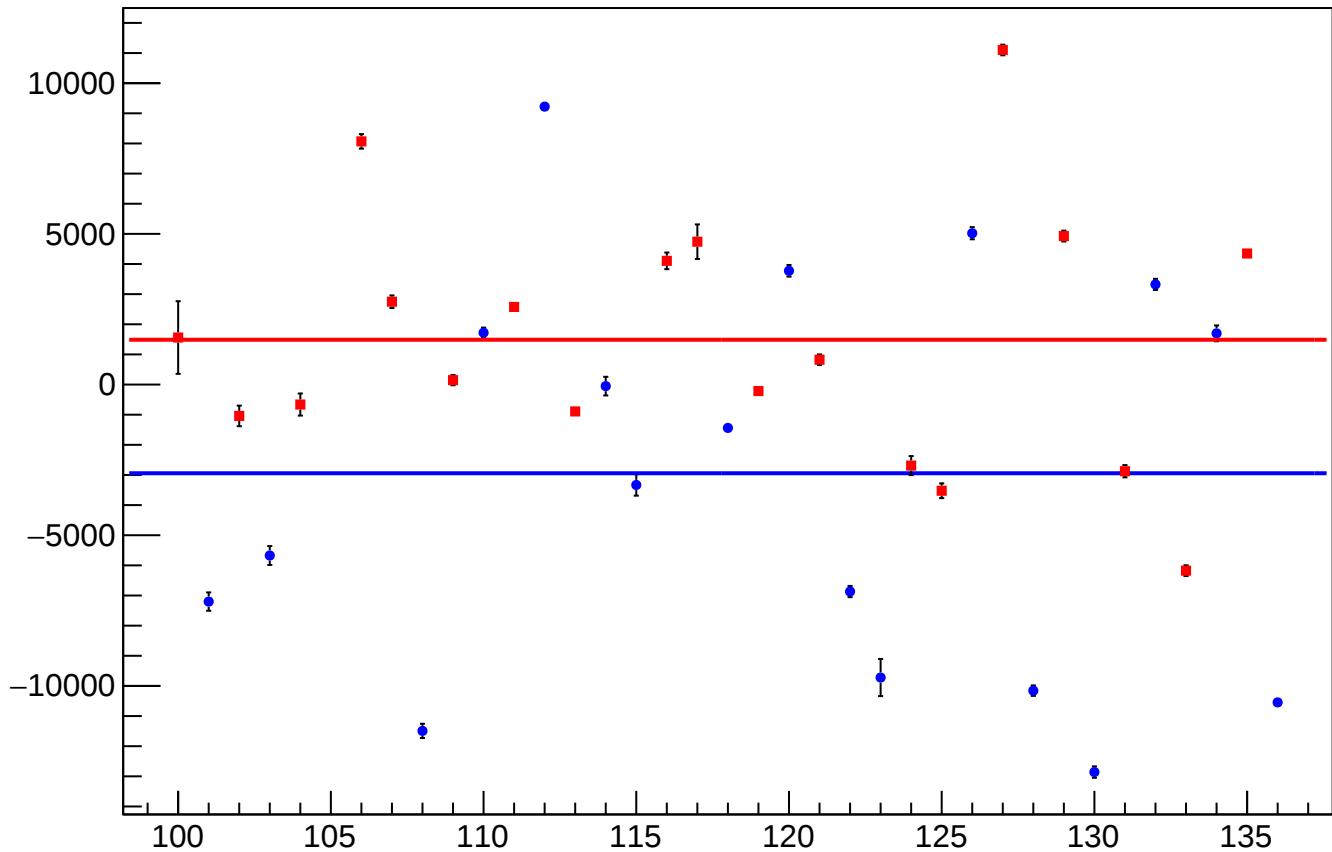
217.403 $\pm$ 0.062  $\chi^2$ /NDF: 652632.9/16

Right Out: 195.727 $\pm$ 0.056  $\chi^2$ /NDF: 1189715.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

195.727 $\pm$ 0.056  $\chi^2$ /NDF: 1189715.9/18

# asym\_bpm2i01WS\_mean vs Slug



Right In:  $-2943.123 \pm 48.612$   $\chi^2/\text{NDF}$ : 20909.8/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

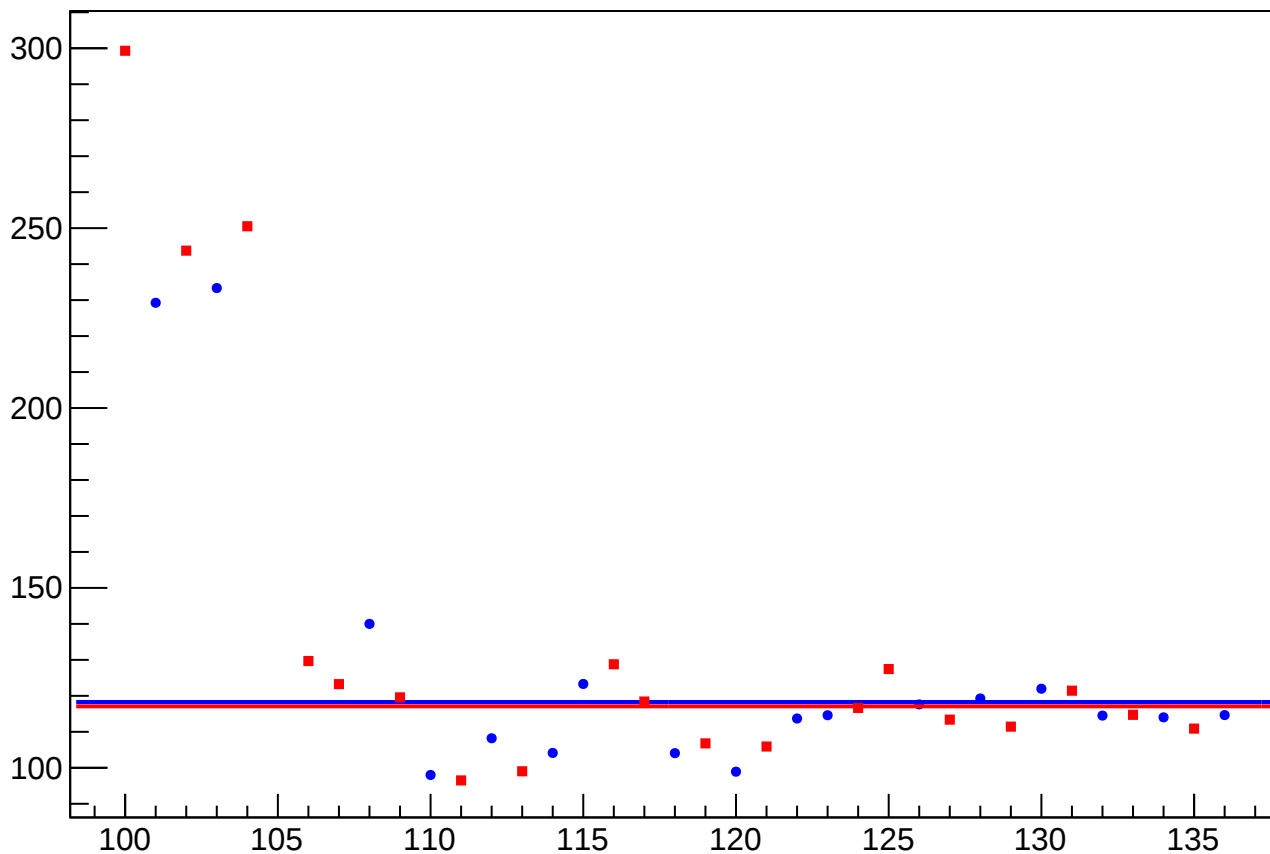
Right Out:  $1486.399 \pm 46.961$   $\chi^2/\text{NDF}$ : 8026.5/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-2943.123 \pm 48.612$   $\chi^2/\text{NDF}$ : 20909.8/16

$1486.399 \pm 46.961$   $\chi^2/\text{NDF}$ : 8026.5/18

# asym\_bpm2i01WS\_rms vs Slug



Right In: 118.286+/-0.034  $\chi^2/\text{NDF}$ : 636918.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

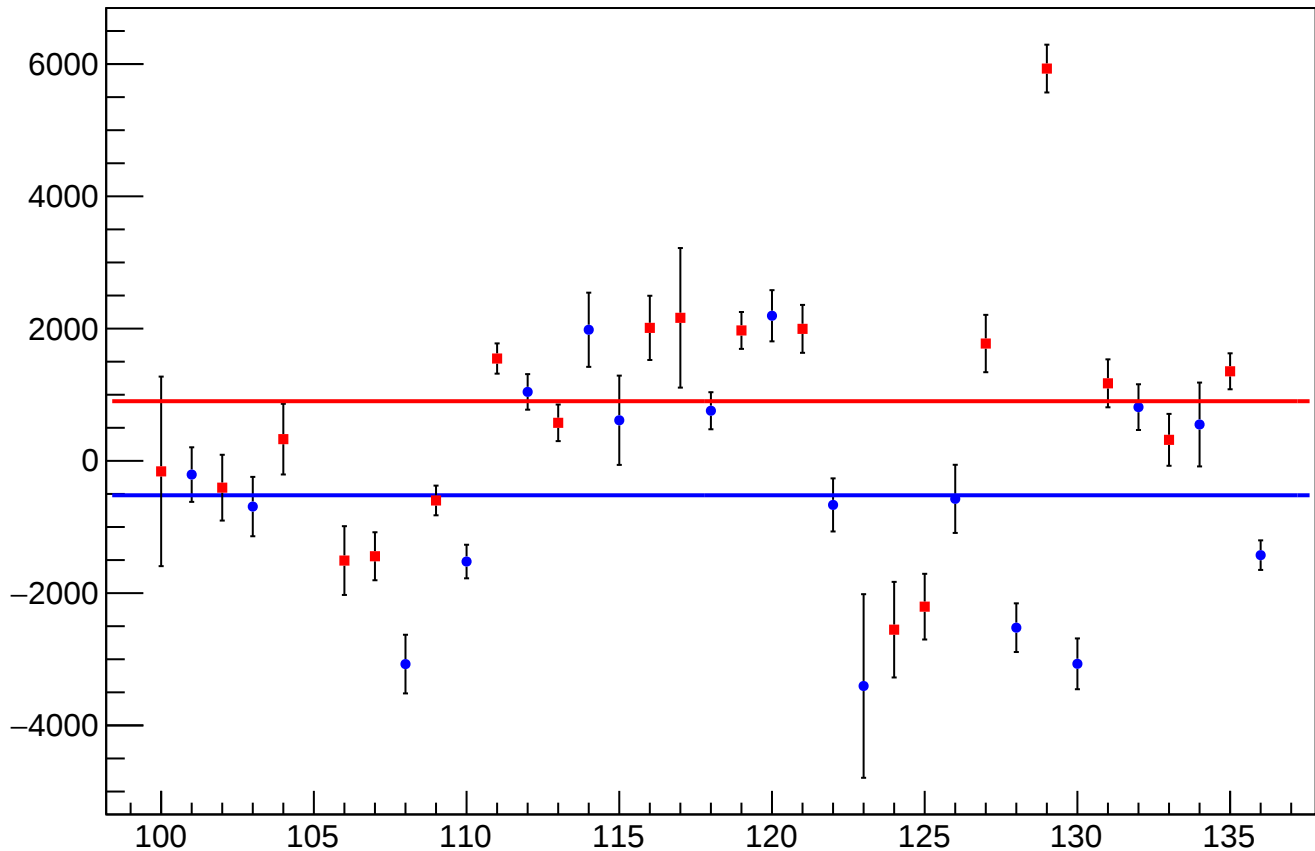
Right Out: 117.088+/-0.033  $\chi^2/\text{NDF}$ : 690805.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

118.286+/-0.034  $\chi^2/\text{NDF}$ : 636918.0/16

117.088+/-0.033  $\chi^2/\text{NDF}$ : 690805.3/18

# asym\_bpm0i07WS\_mean vs Slug



Right In: -520.267+/-89.241  $\chi^2/\text{NDF}$ : 288.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

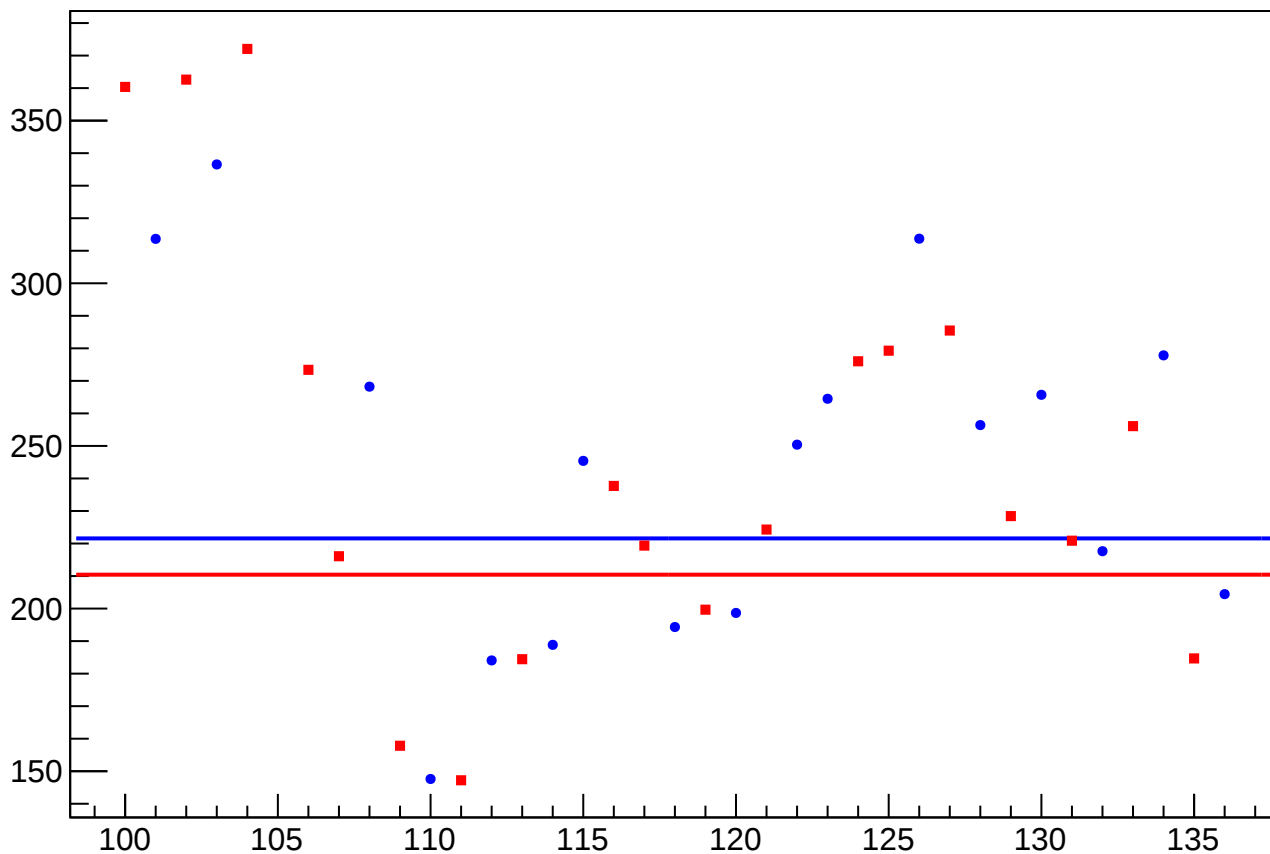
Right Out: 902.195+/-83.471  $\chi^2/\text{NDF}$ : 421.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-520.267+/-89.241  $\chi^2/\text{NDF}$ : 288.1/16

902.195+/-83.471  $\chi^2/\text{NDF}$ : 421.6/18

# asym\_bpm0i07WS\_rms vs Slug



Right In: 221.570 $\pm$ 0.063  $\chi^2$ /NDF: 644941.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

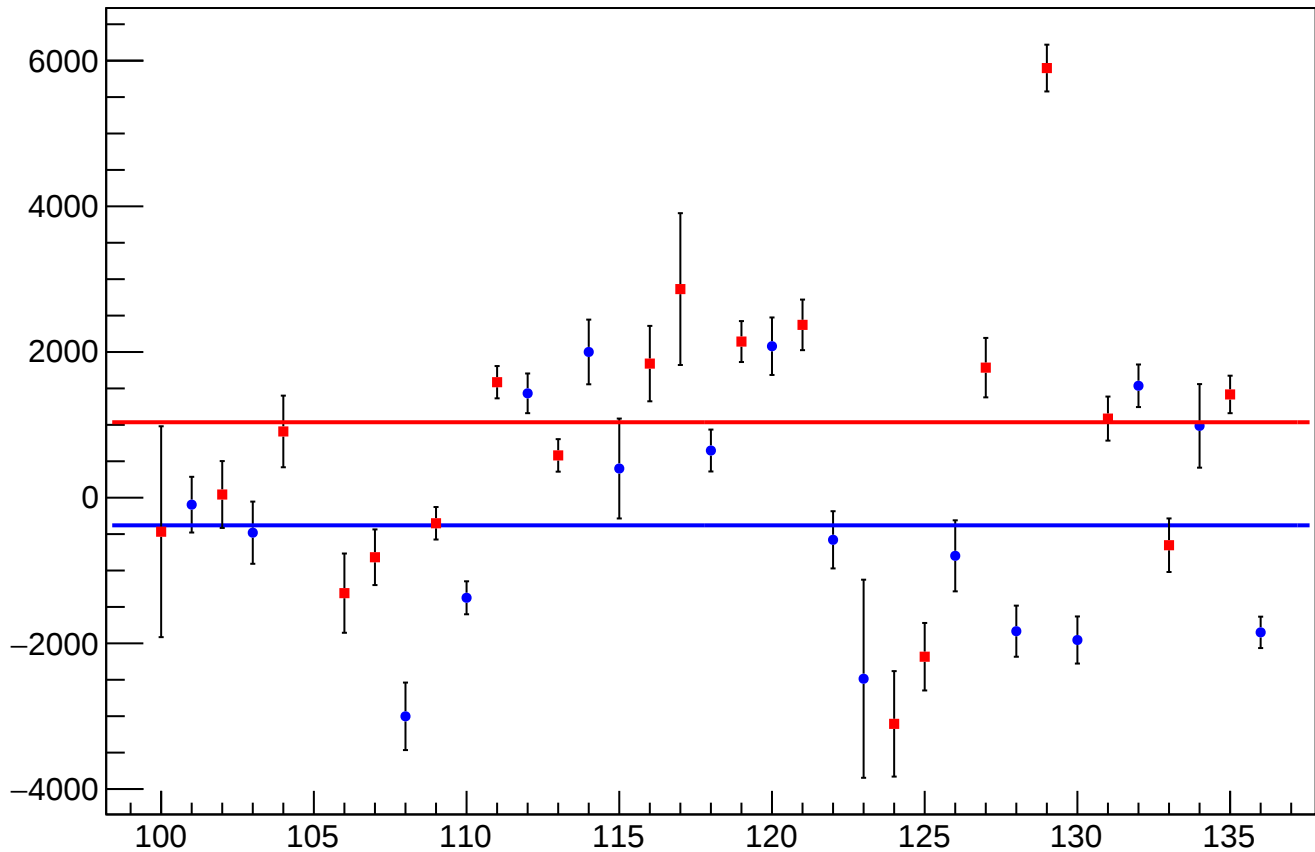
Right Out: 210.417 $\pm$ 0.059  $\chi^2$ /NDF: 880840.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

221.570 $\pm$ 0.063  $\chi^2$ /NDF: 644941.4/16

210.417 $\pm$ 0.059  $\chi^2$ /NDF: 880840.2/18

# asym\_bpm0l01WS\_mean vs Slug



Right In: -379.647+/-84.260  $\chi^2/\text{NDF}$ : 317.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

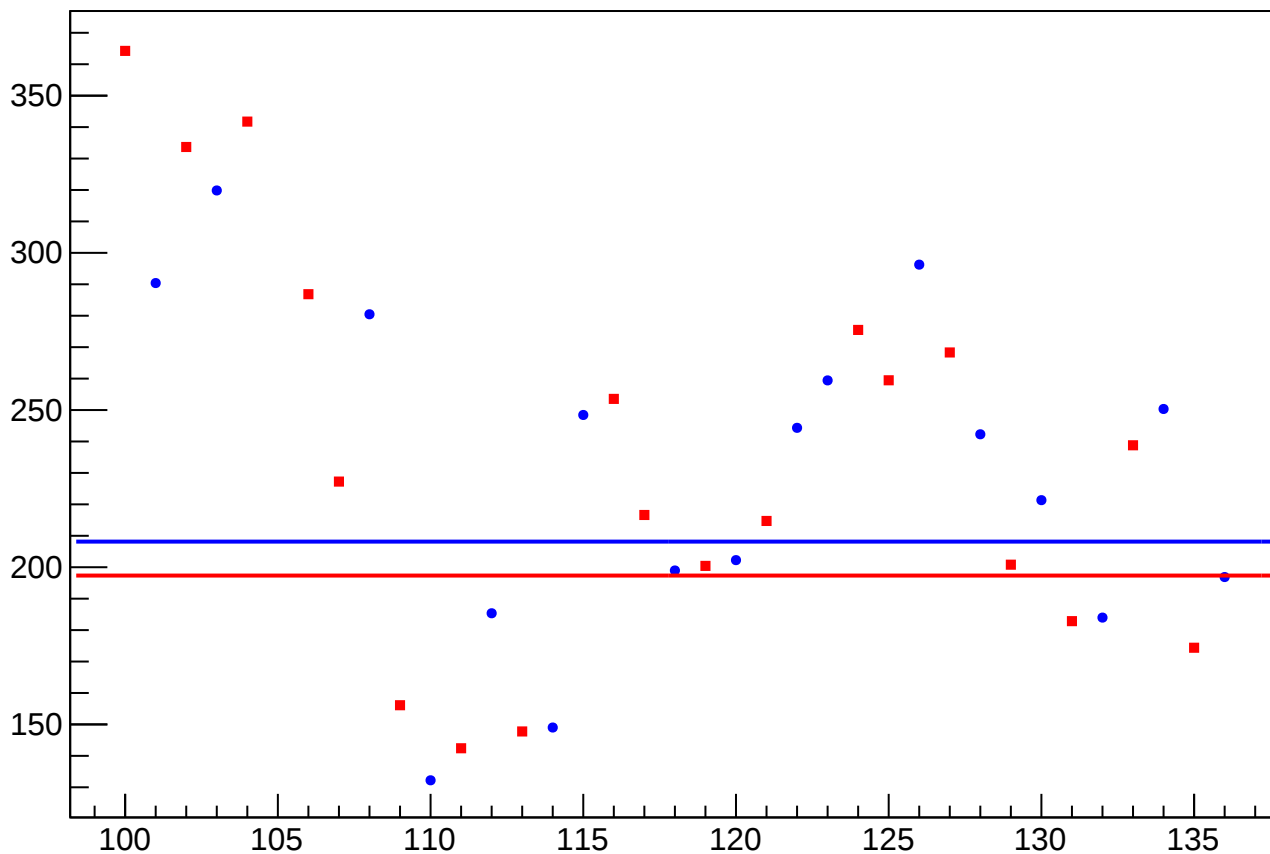
Right Out: 1035.830+/-78.716  $\chi^2/\text{NDF}$ : 469.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-379.647+/-84.260  $\chi^2/\text{NDF}$ : 317.2/16

1035.830+/-78.716  $\chi^2/\text{NDF}$ : 469.7/18

# asym\_bpm0l01WS\_rms vs Slug



Right In: 208.151+/-0.060  $\chi^2/\text{NDF}$ : 699084.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

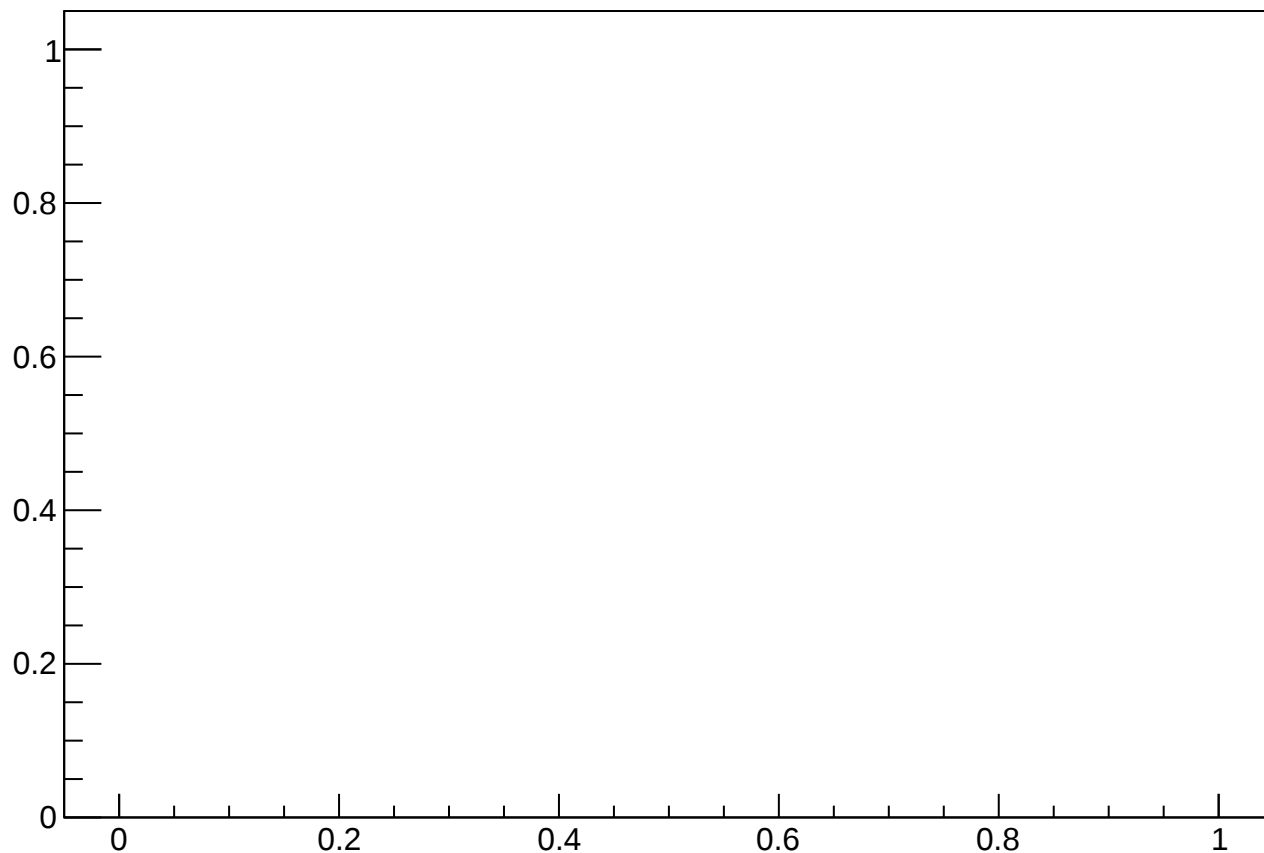
Right Out: 197.349+/-0.056  $\chi^2/\text{NDF}$ : 926961.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

208.151+/-0.060  $\chi^2/\text{NDF}$ : 699084.2/16

197.349+/-0.056  $\chi^2/\text{NDF}$ : 926961.2/18

bcm\_an\_us\_ds\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

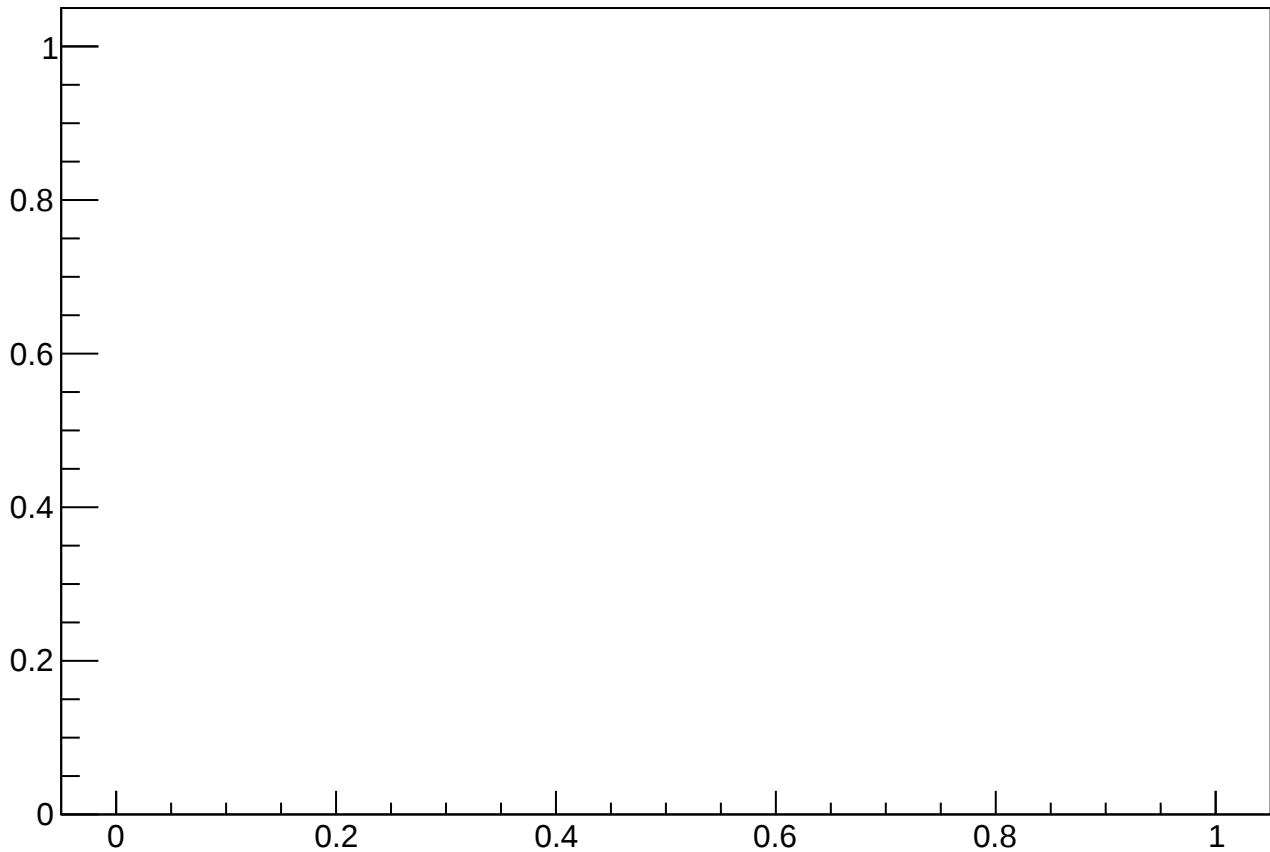
Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# bcm\_an\_us\_ds\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

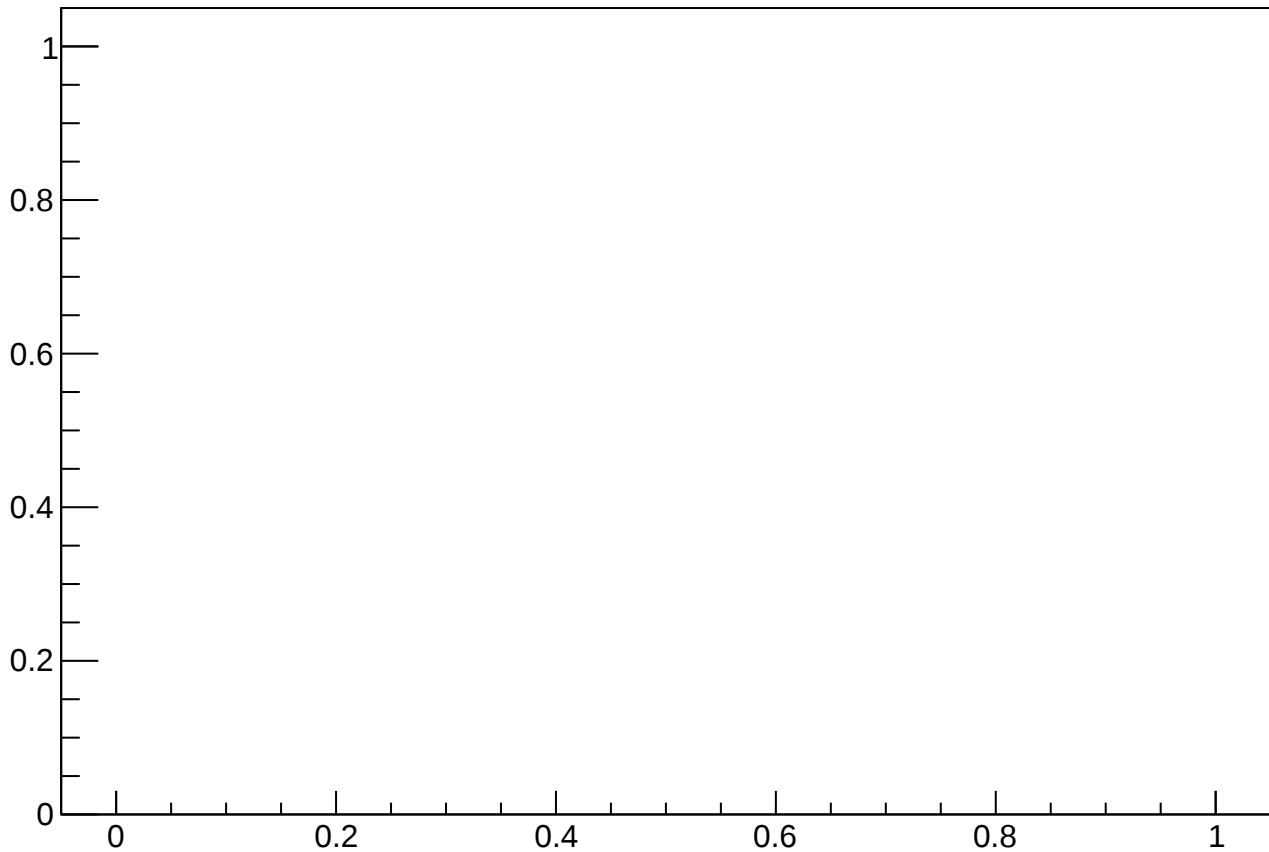
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_us\_dg\_ds\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

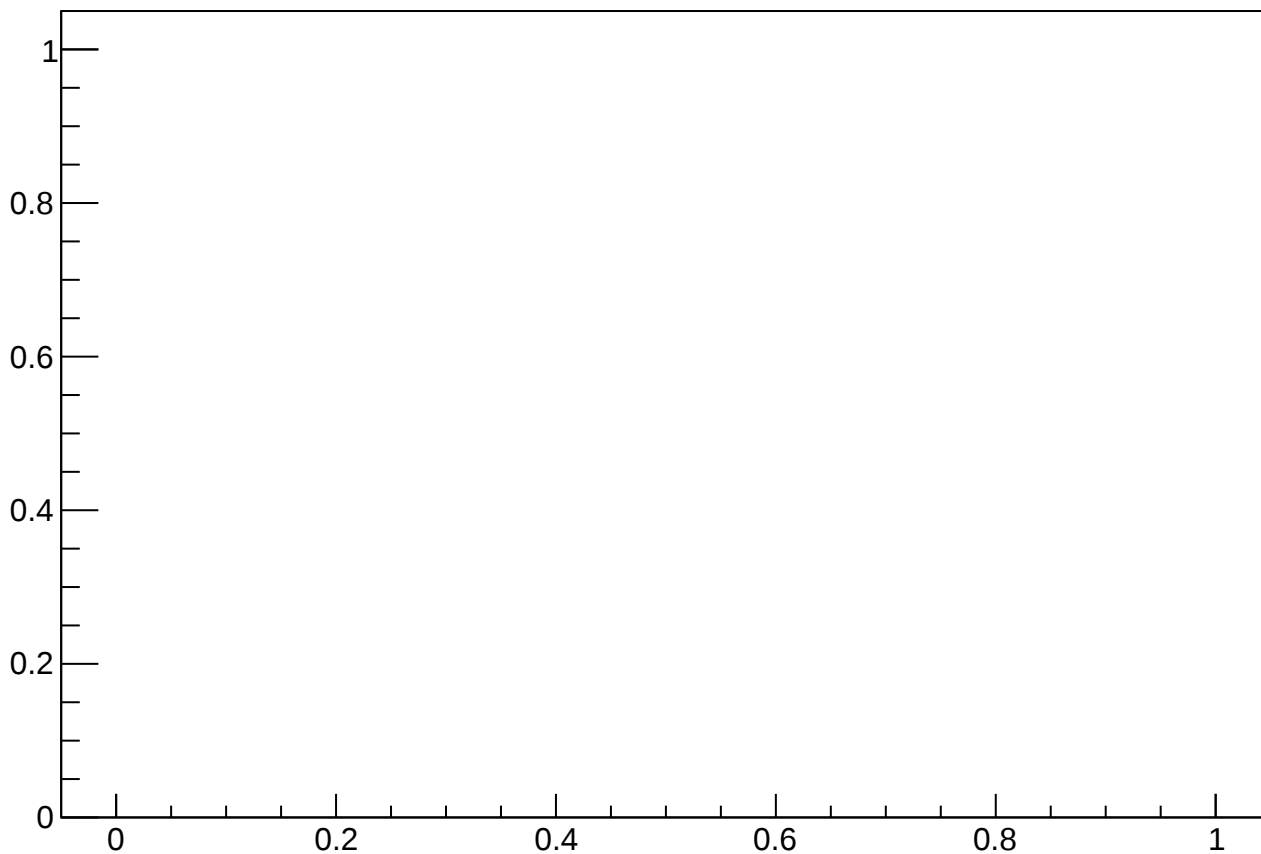
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_us\_dg\_ds\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

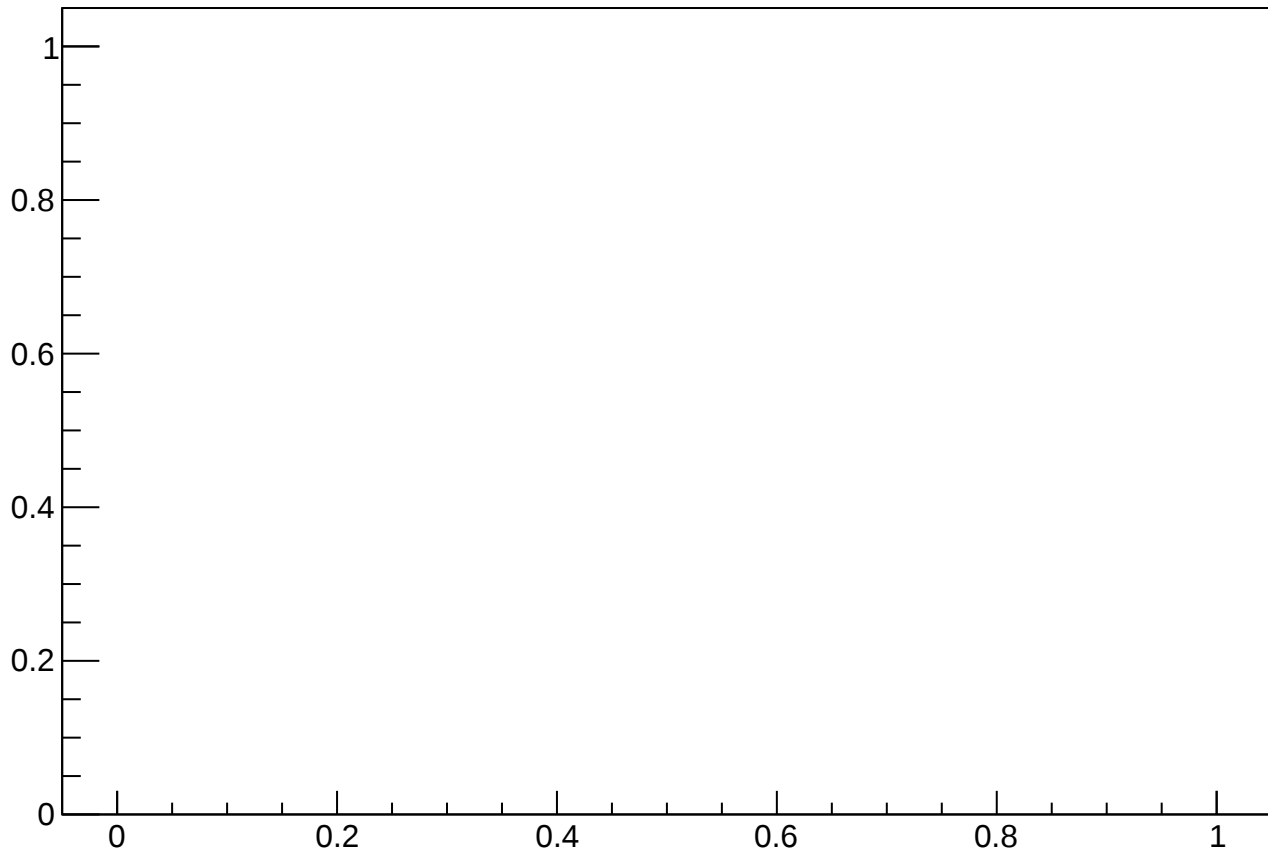
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

bcm\_dg\_us\_ds\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

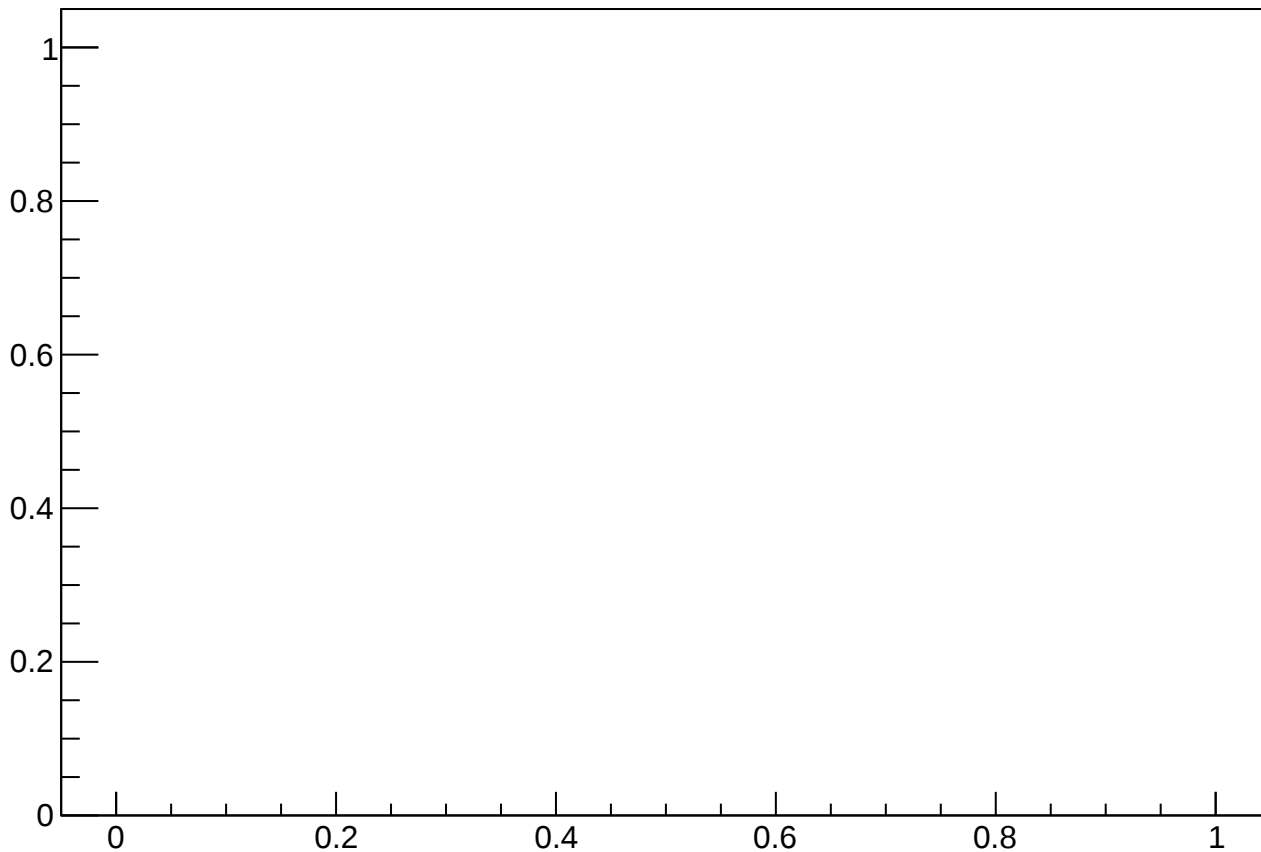
Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# bcm\_dg\_us\_ds\_dd\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

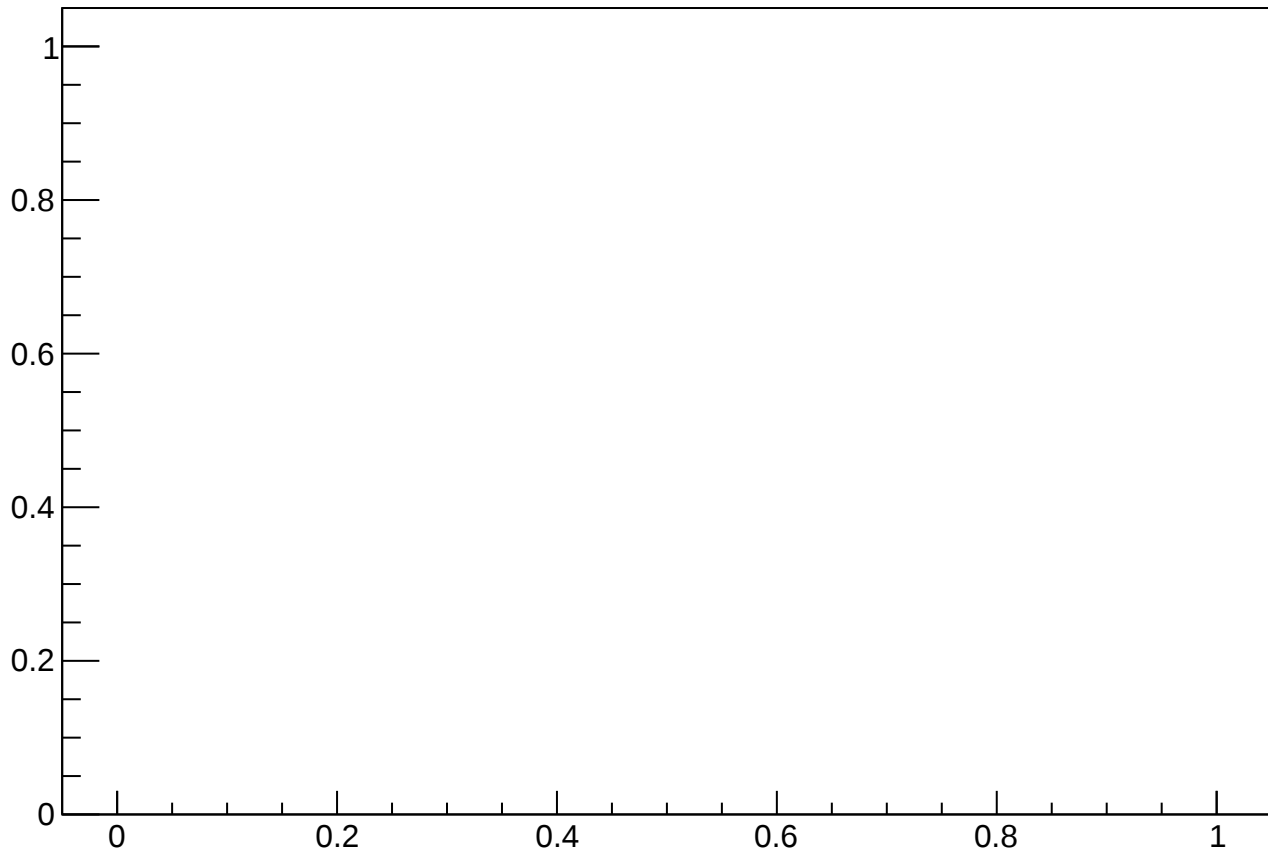
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

bcm\_dg\_ds\_ds\_dd\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

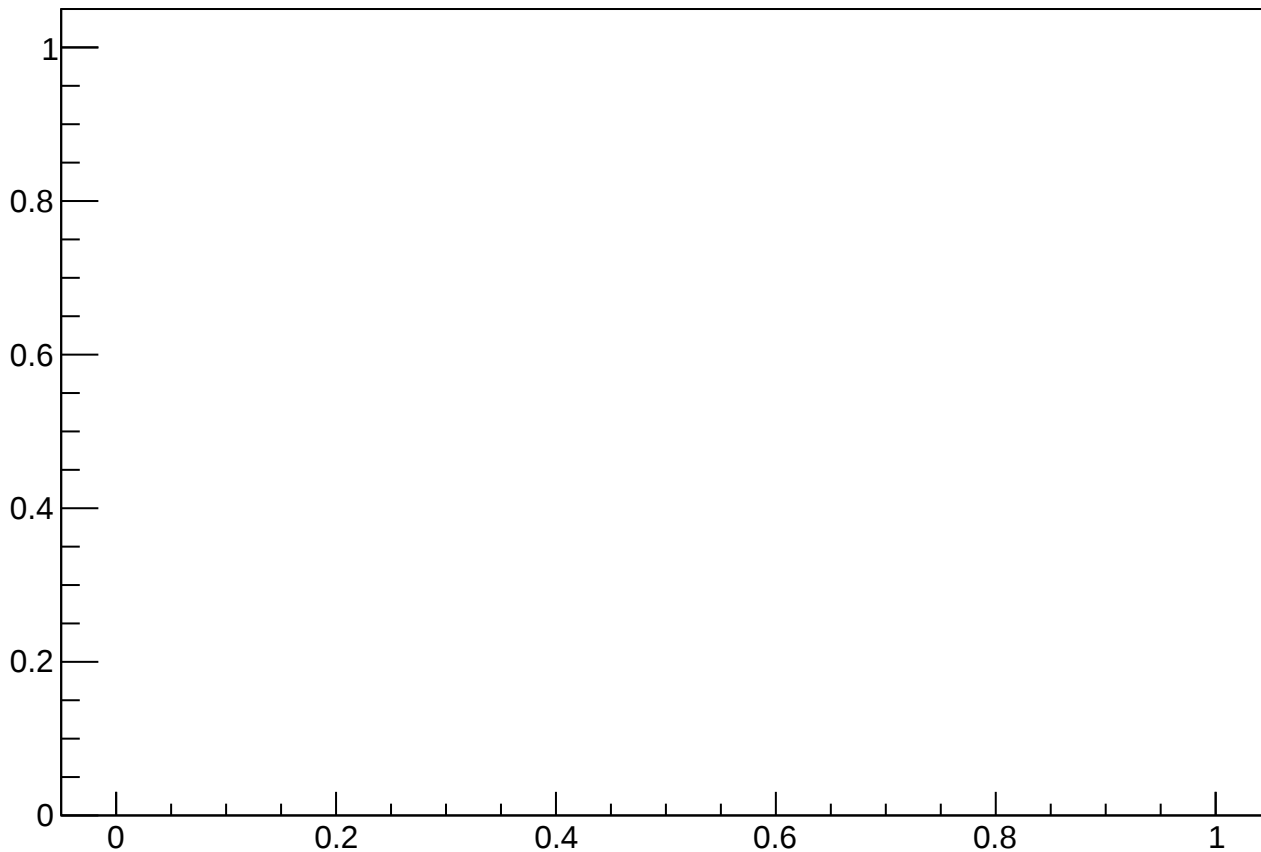
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# bcm\_dg\_ds\_ds\_dd\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

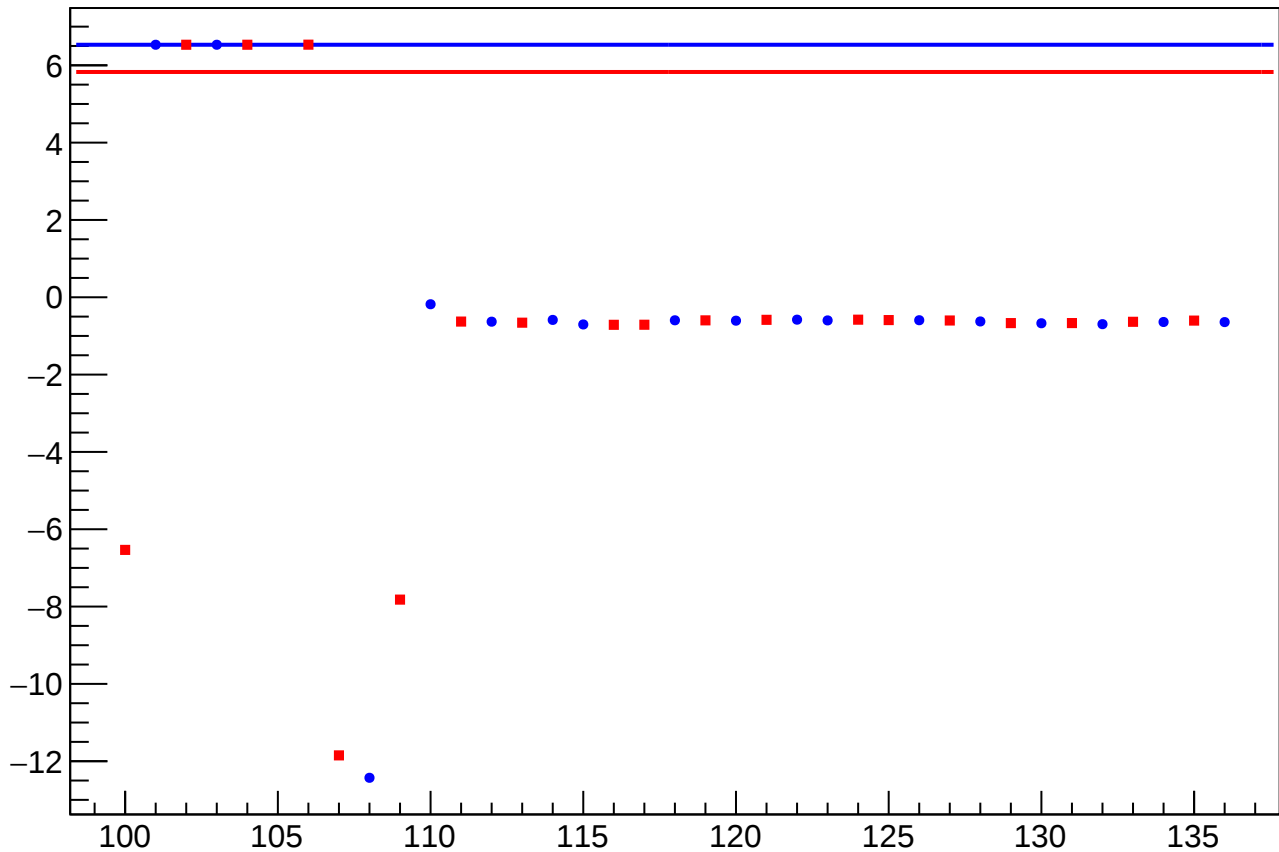
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bX\_mean vs Slug



Right In: 6.532 $\pm$ 0.000  $\chi^2$ /NDF: 127219747629.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

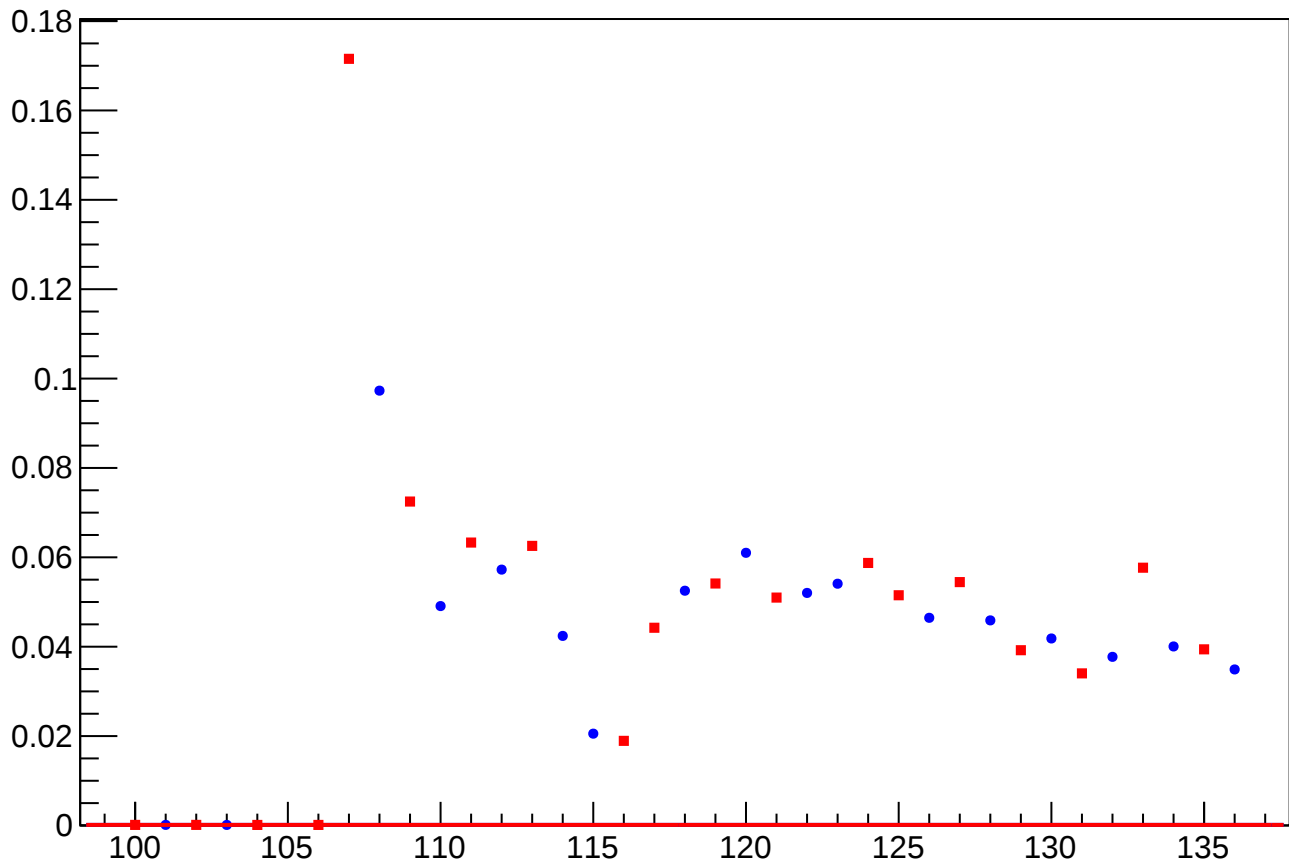
6.532 $\pm$ 0.000  $\chi^2$ /NDF: 127219747629.7/16

Right Out: 5.827 $\pm$ 0.000  $\chi^2$ /NDF: 755957571252689.9/18

5.827 $\pm$ 0.000  $\chi^2$ /NDF: 755957571252689.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bX\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8888070.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

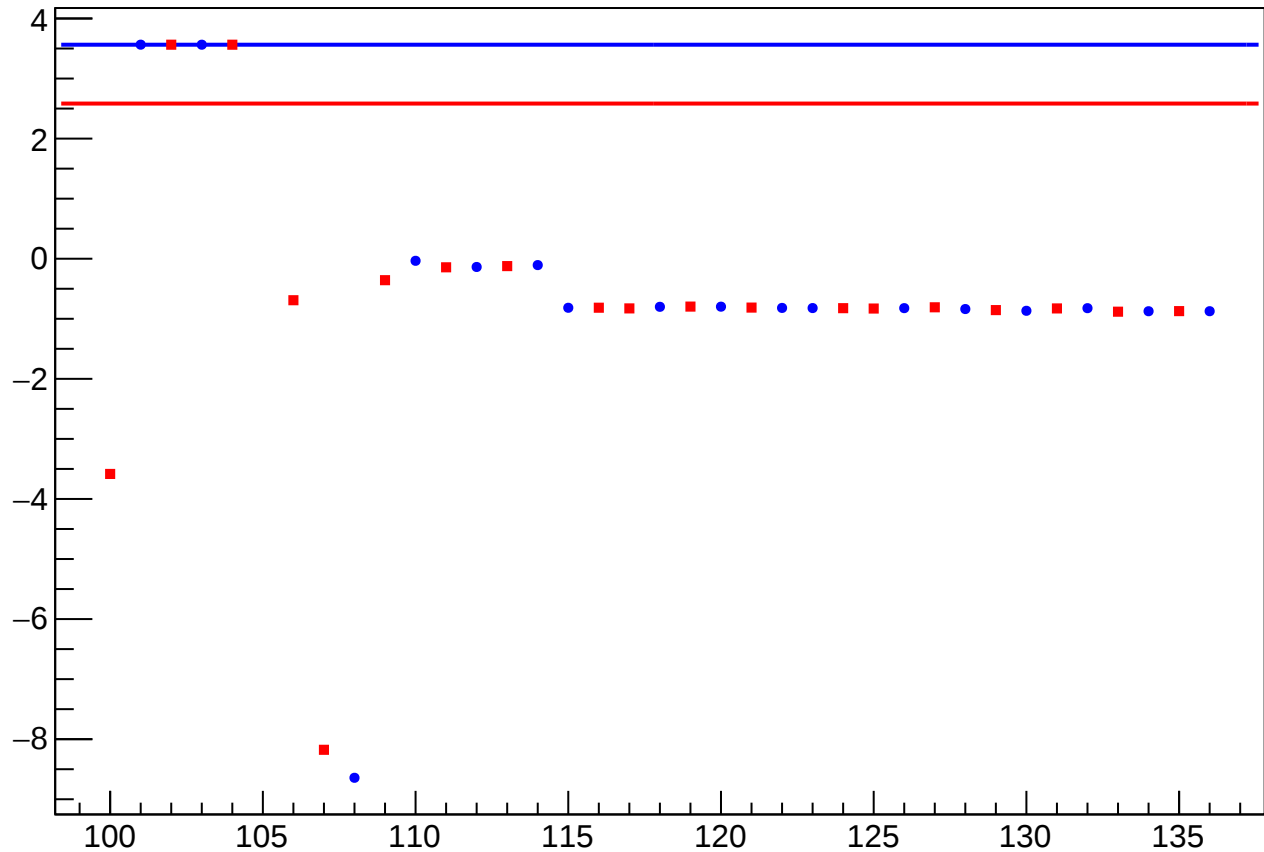
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9151864.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 8888070.2/16

0.000+/-0.000  $\chi^2/\text{NDF}$ : 9151864.7/18

# yield\_cav4bY\_mean vs Slug



Right In: 3.563+/-0.000  $\chi^2/\text{NDF}$ : 481634392464.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

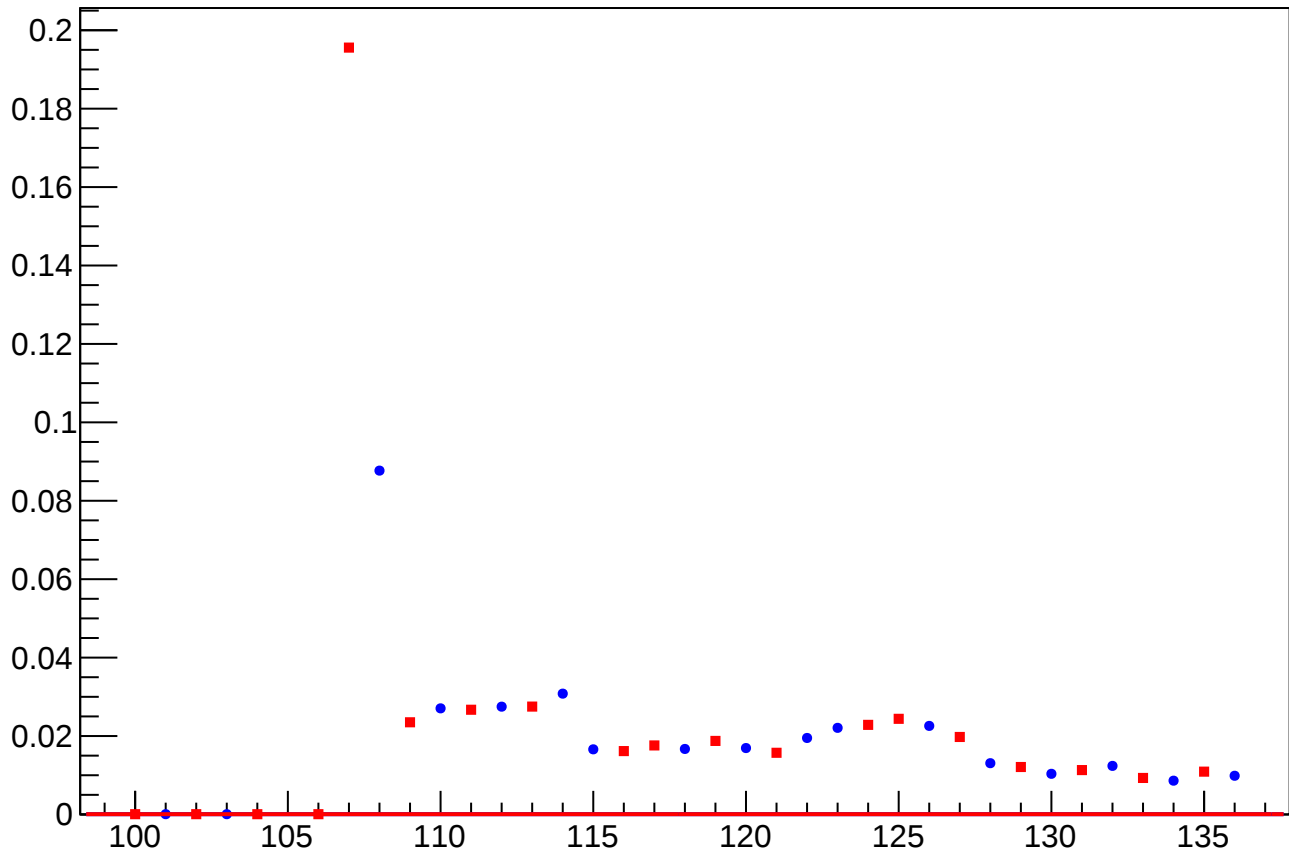
Right Out: 2.583+/-0.000  $\chi^2/\text{NDF}$ : 1253473200442888.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.563+/-0.000  $\chi^2/\text{NDF}$ : 481634392464.0/16

2.583+/-0.000  $\chi^2/\text{NDF}$ : 1253473200442888.2/18

# yield\_cav4bY\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9724059.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

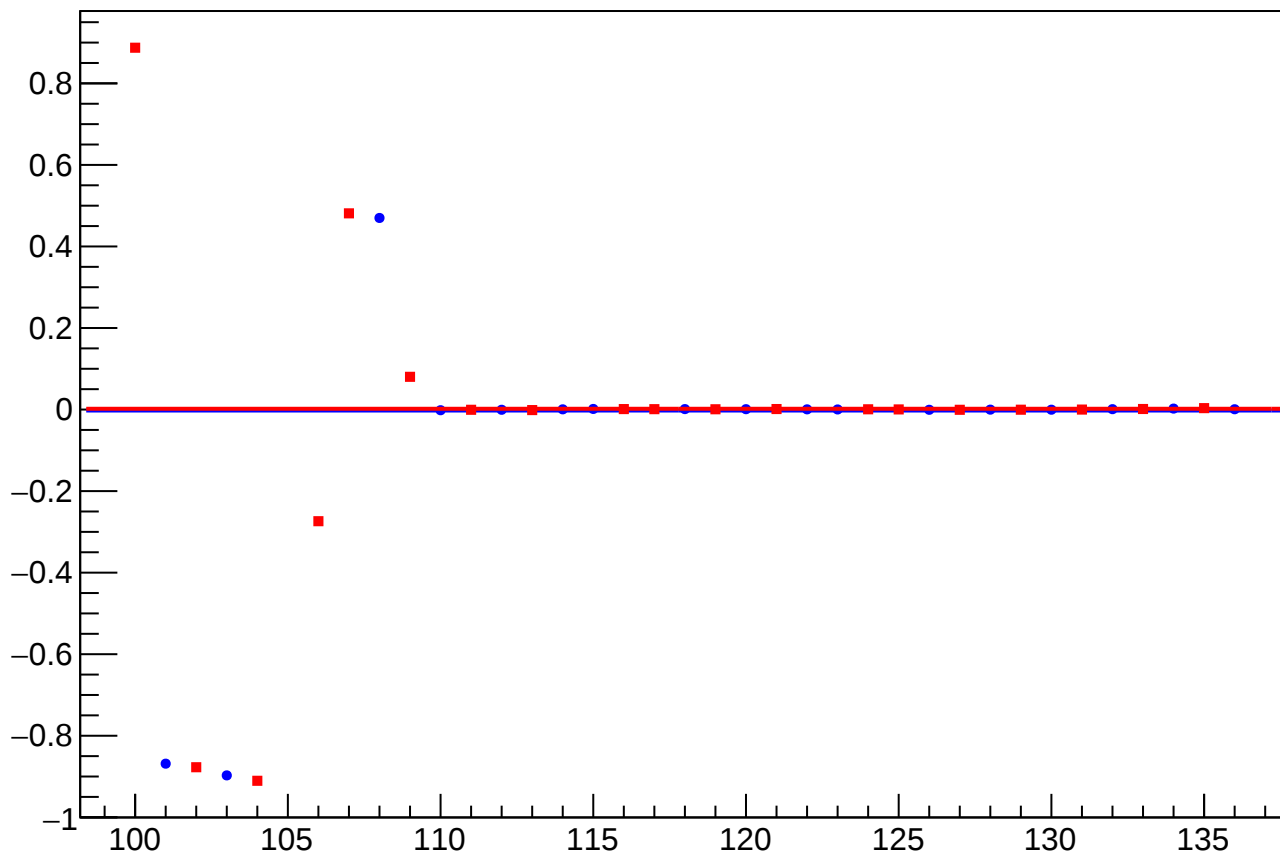
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9621945.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 9724059.3/16

0.000+/-0.000  $\chi^2/\text{NDF}$ : 9621945.0/18

yield\_cav4cX\_mean vs Slug



Right In: -0.002+/-0.000  $\chi^2/\text{NDF}$ : 9794863405.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

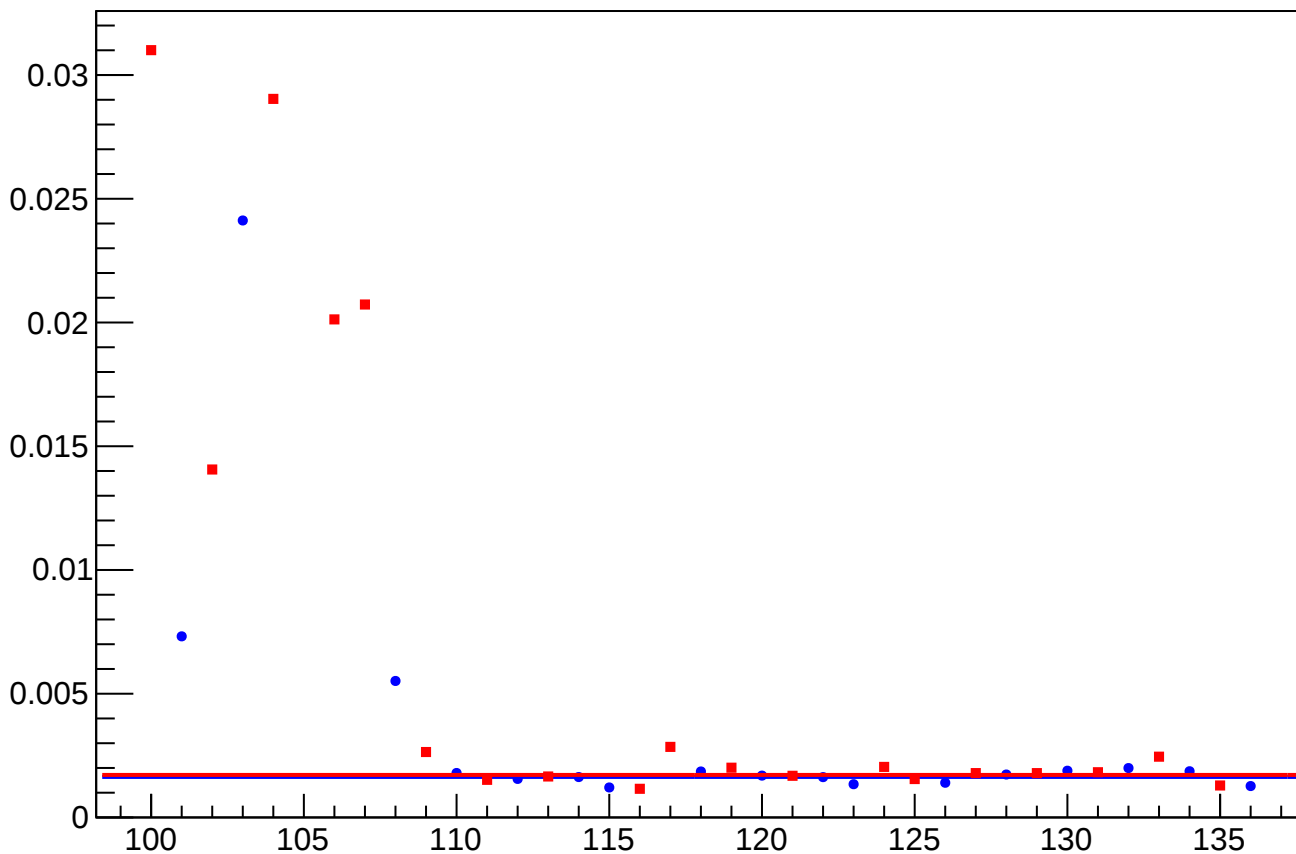
Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3041193224.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.002+/-0.000  $\chi^2/\text{NDF}$ : 9794863405.3/16

0.002+/-0.000  $\chi^2/\text{NDF}$ : 3041193224.3/18

# yield\_cav4cX\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1916349.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

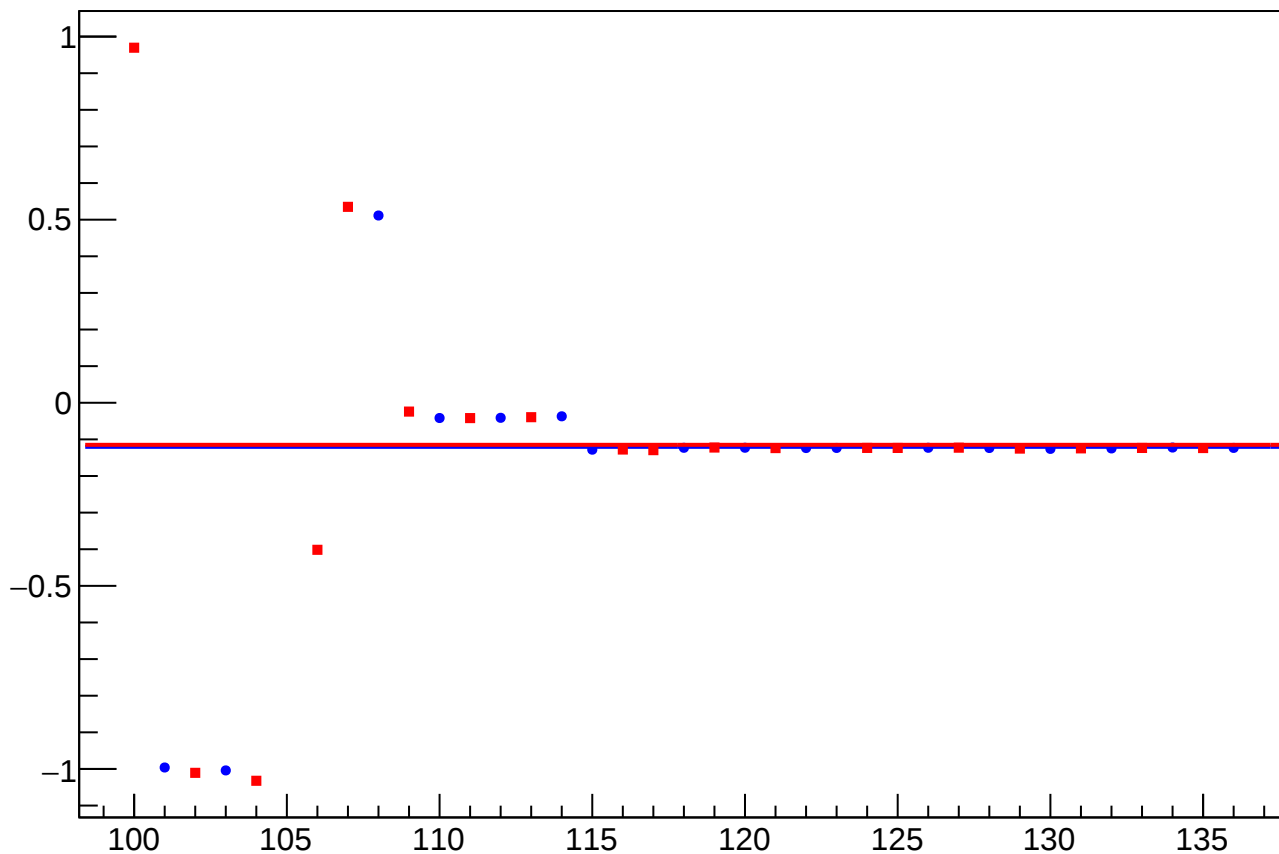
Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3020885.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.002+/-0.000  $\chi^2/\text{NDF}$ : 1916349.1/16

0.002+/-0.000  $\chi^2/\text{NDF}$ : 3020885.3/18

# yield\_cav4cY\_mean vs Slug



Right In: -0.120+/-0.000  $\chi^2/\text{NDF}$ : 3932144335.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

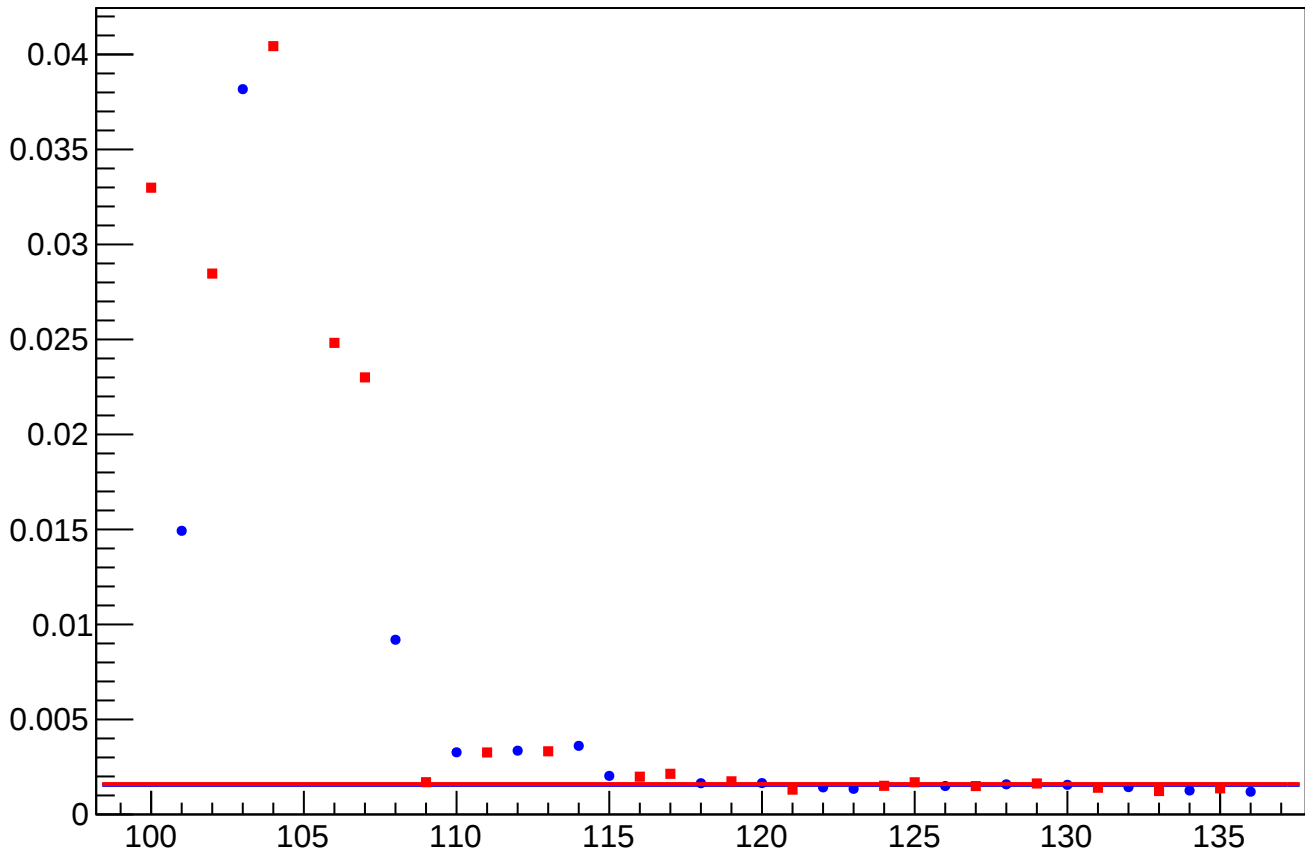
Right Out: -0.115+/-0.000  $\chi^2/\text{NDF}$ : 2448936459.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.120+/-0.000  $\chi^2/\text{NDF}$ : 3932144335.2/16

-0.115+/-0.000  $\chi^2/\text{NDF}$ : 2448936459.7/18

# yield\_cav4cY\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2901093.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

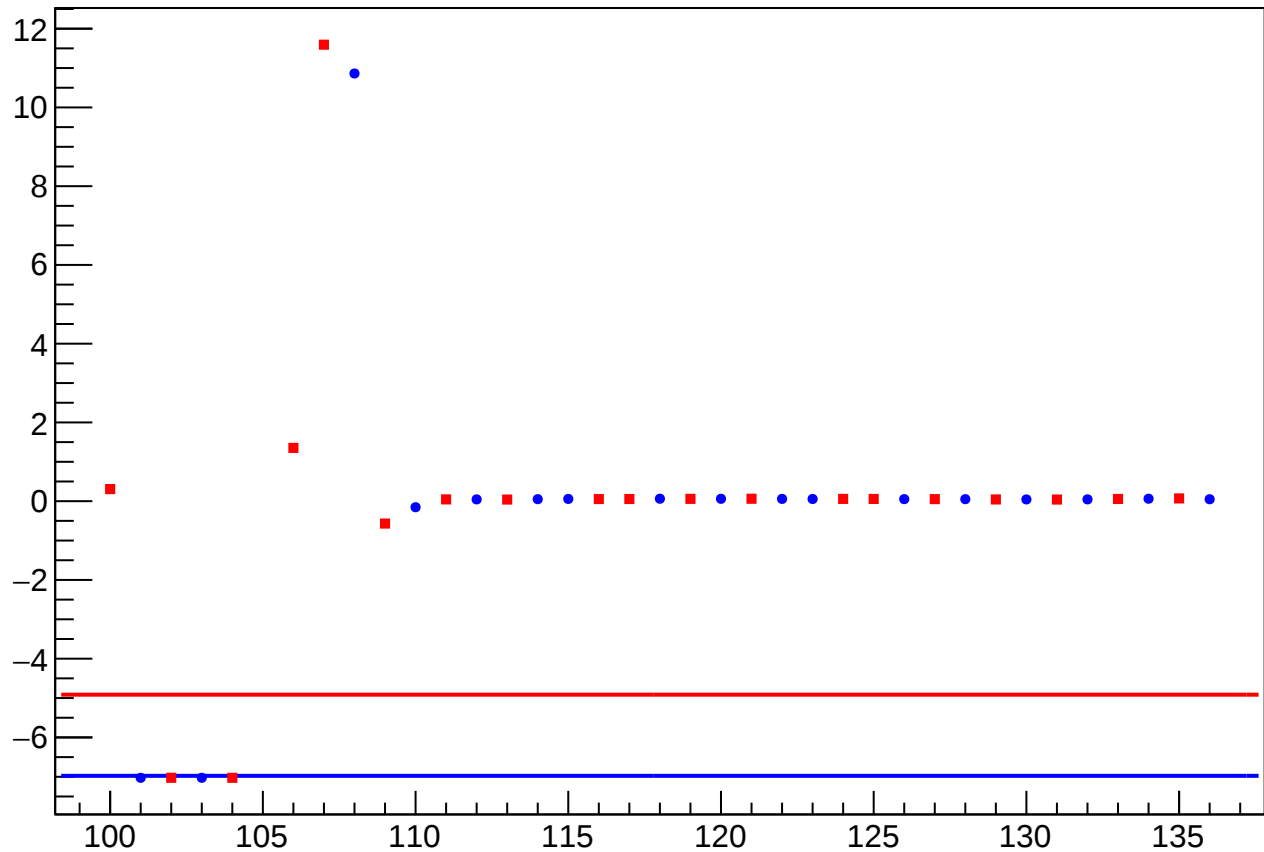
Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3453913.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.002+/-0.000  $\chi^2/\text{NDF}$ : 2901093.3/16

0.002+/-0.000  $\chi^2/\text{NDF}$ : 3453913.1/18

yield\_cav4dX\_mean vs Slug



Right In: -6.975+/-0.000  $\chi^2/\text{NDF}$ : 8749579700722.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

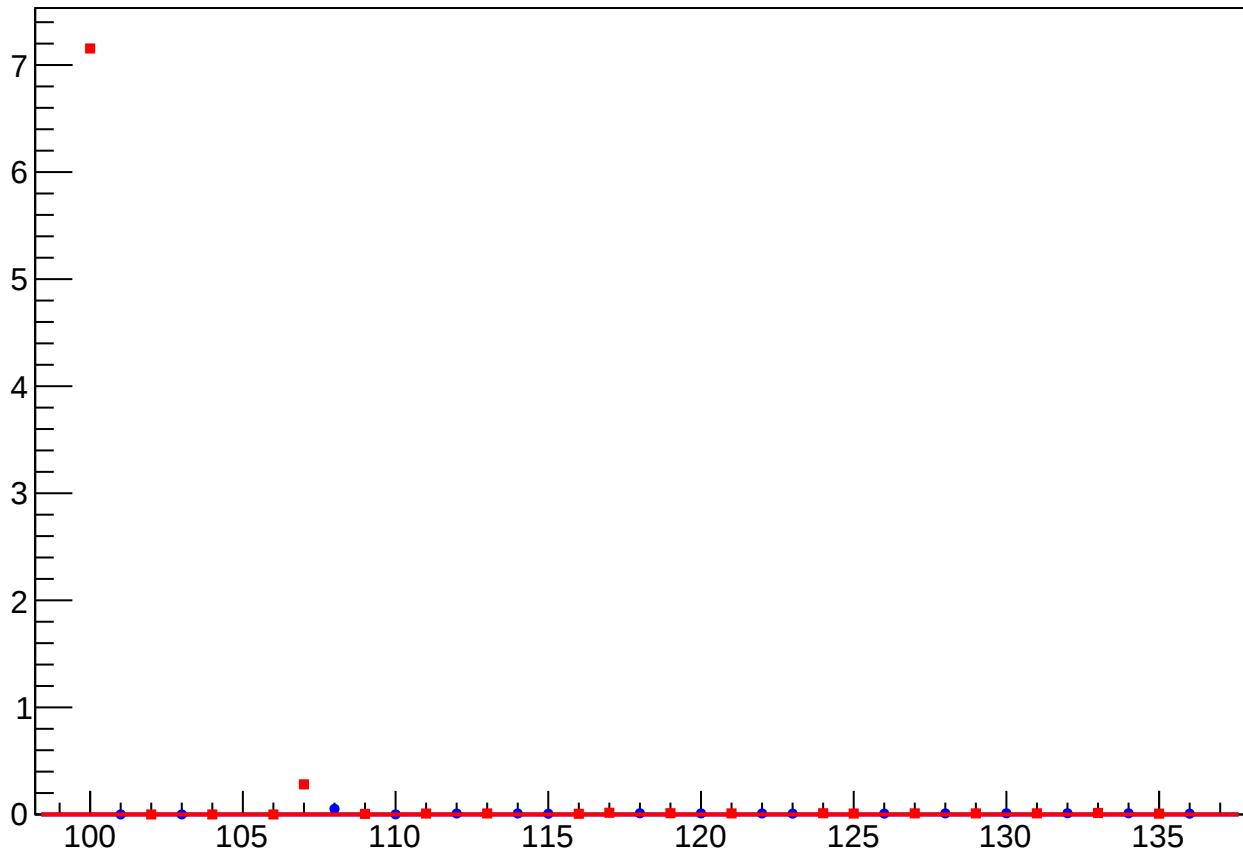
Right Out: -4.914+/-0.000  $\chi^2/\text{NDF}$ : 365298596598109.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.975+/-0.000  $\chi^2/\text{NDF}$ : 8749579700722.8/16

-4.914+/-0.000  $\chi^2/\text{NDF}$ : 365298596598109.3/18

# yield\_cav4dX\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8242728.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

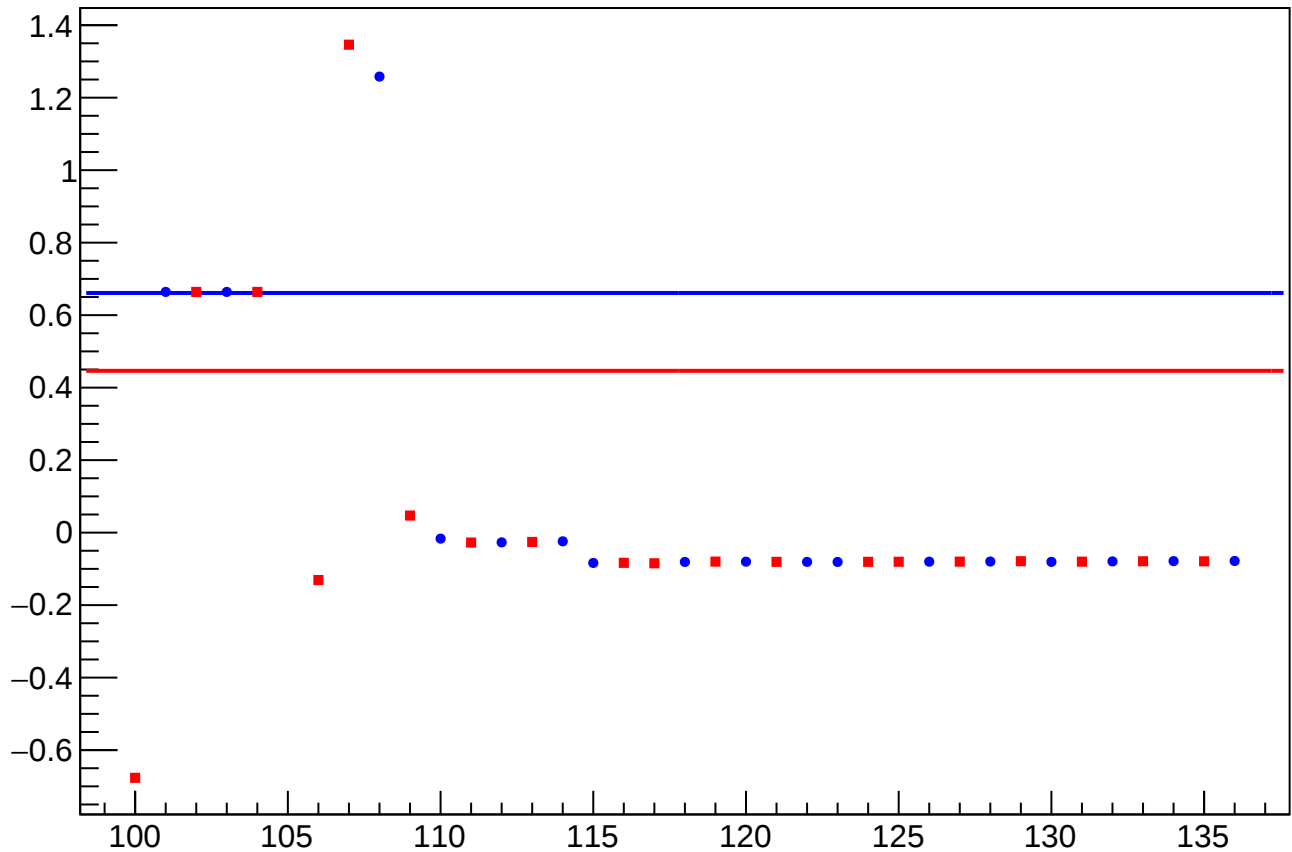
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8560814.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 8242728.7/16

0.000+/-0.000  $\chi^2/\text{NDF}$ : 8560814.7/18

yield\_cav4dY\_mean vs Slug



Right In: 0.661+/-0.000  $\chi^2/\text{NDF}$ : 5607525081216.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

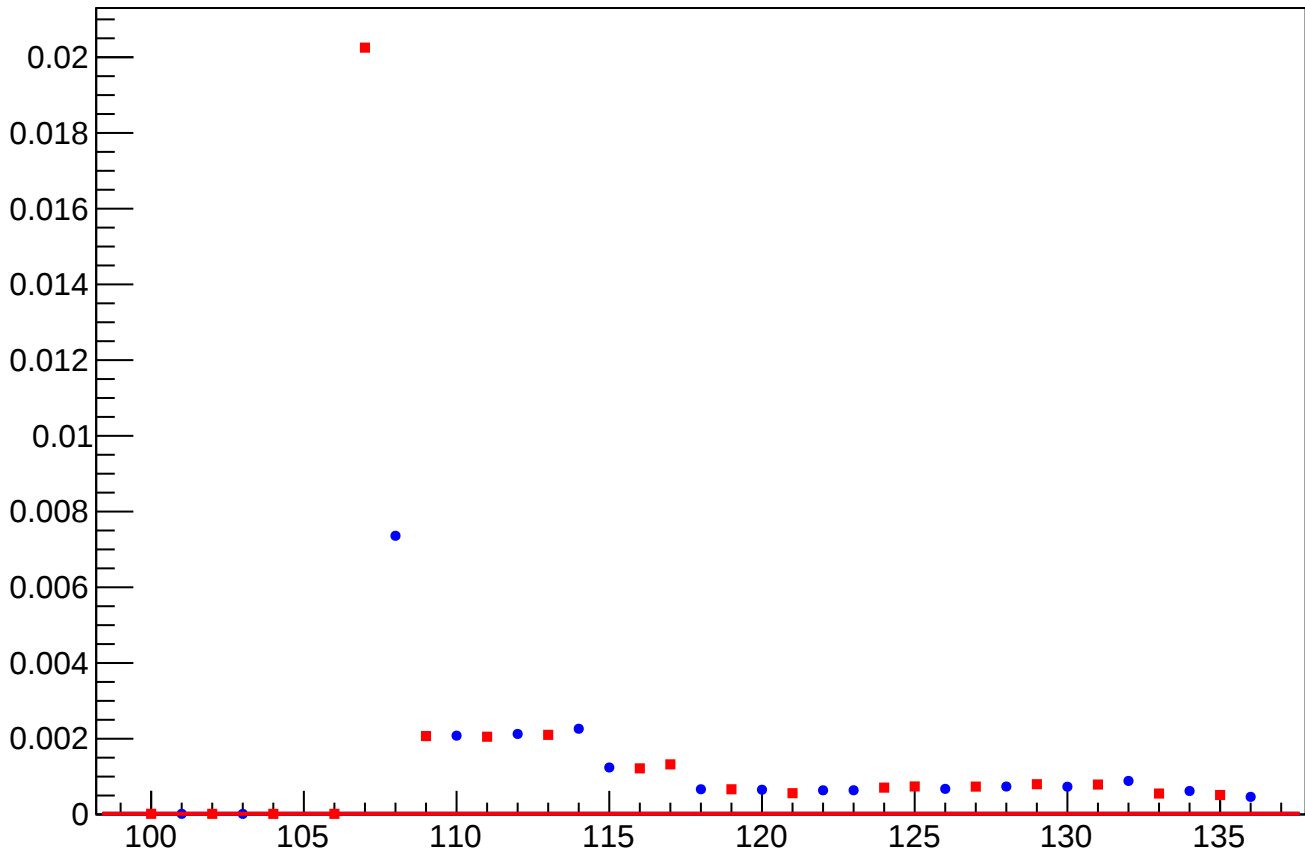
Right Out: 0.446+/-0.000  $\chi^2/\text{NDF}$ : 405210853741328.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.661+/-0.000  $\chi^2/\text{NDF}$ : 5607525081216.0/16

0.446+/-0.000  $\chi^2/\text{NDF}$ : 405210853741328.0/18

# yield\_cav4dY\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9874012.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

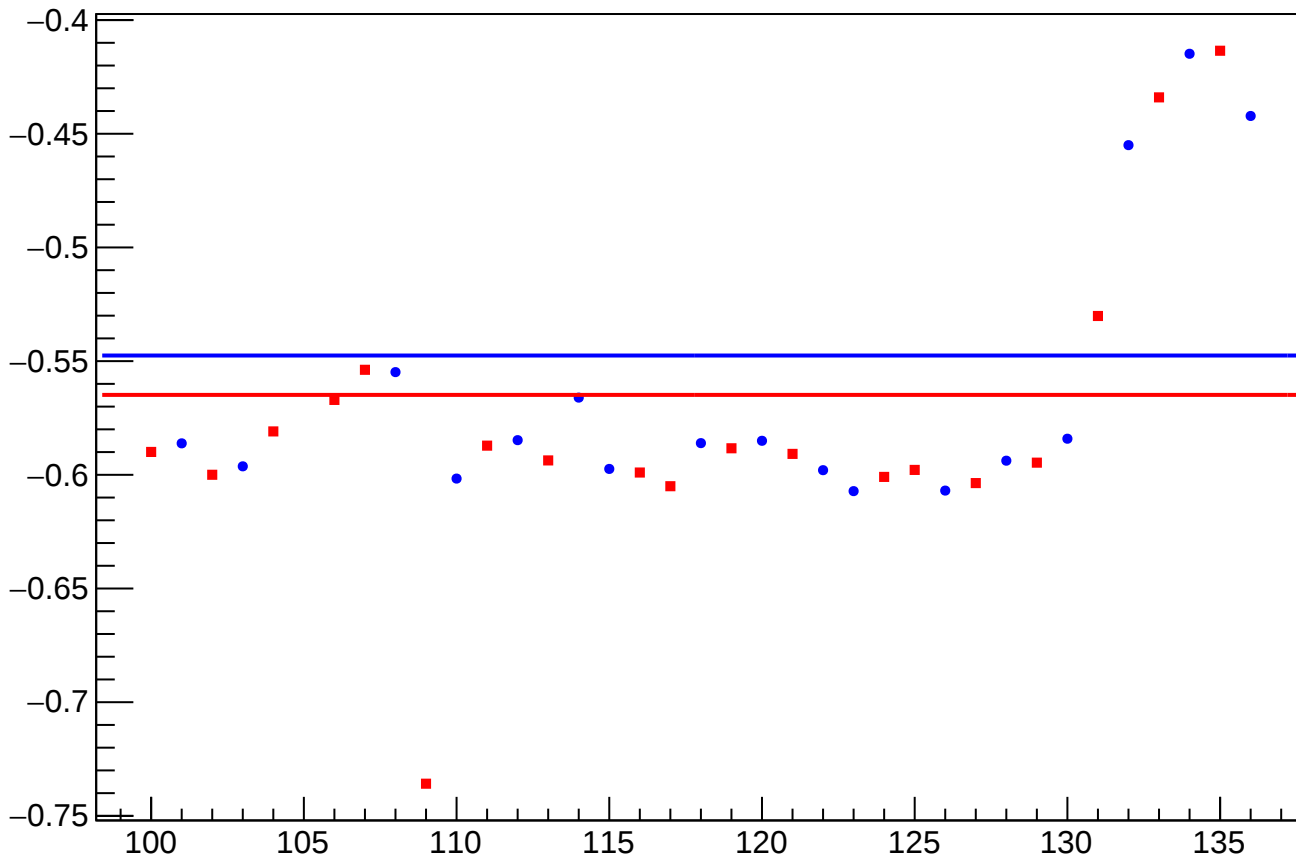
0.000+/-0.000  $\chi^2/\text{NDF}$ : 9874012.7/16

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9224066.5/18

0.000+/-0.000  $\chi^2/\text{NDF}$ : 9224066.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_mean vs Slug



Right In: -0.548+/-0.000  $\chi^2/\text{NDF}$ : 48545285.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

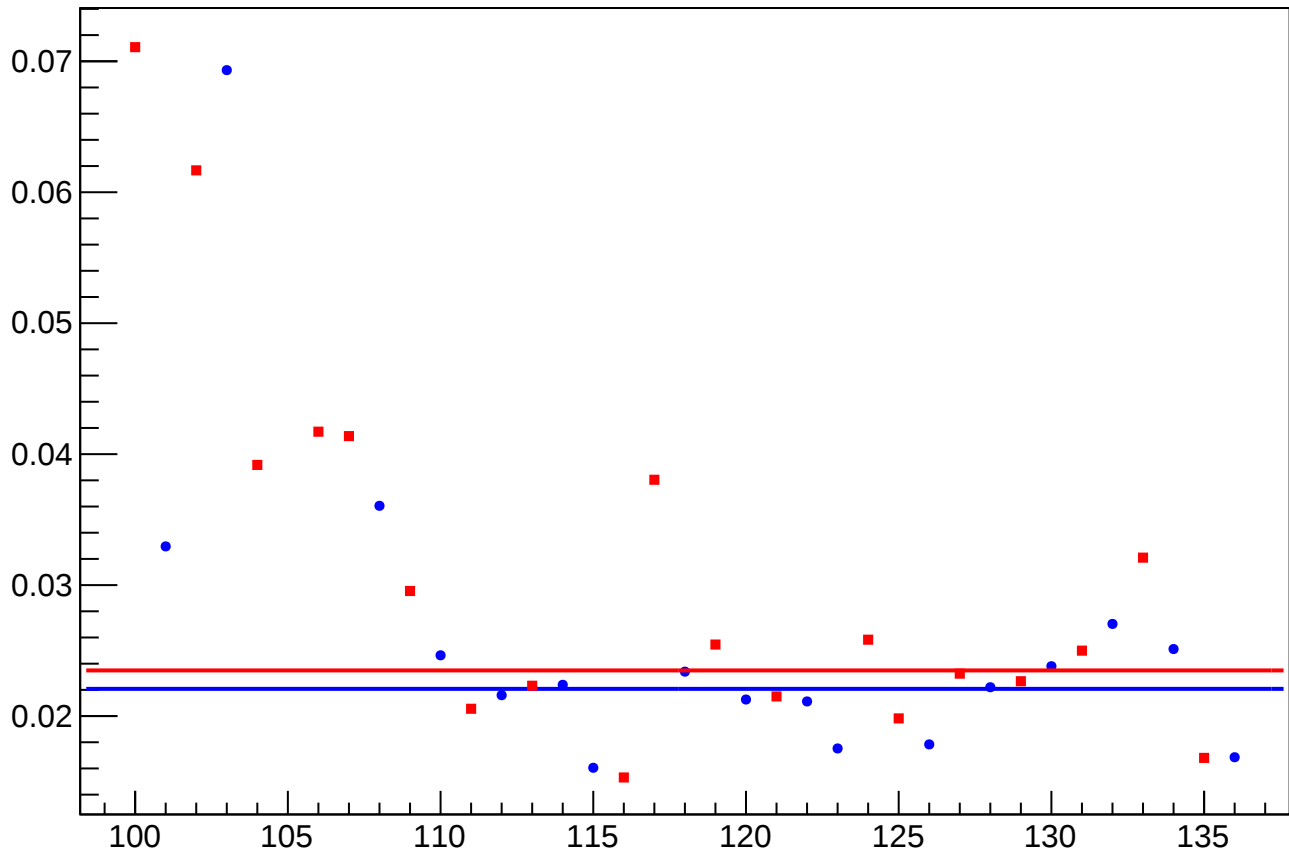
Right Out: -0.565+/-0.000  $\chi^2/\text{NDF}$ : 58847196.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.548+/-0.000  $\chi^2/\text{NDF}$ : 48545285.9/16

-0.565+/-0.000  $\chi^2/\text{NDF}$ : 58847196.7/18

# yield\_bpm4aX\_rms vs Slug



Right In: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 954779.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

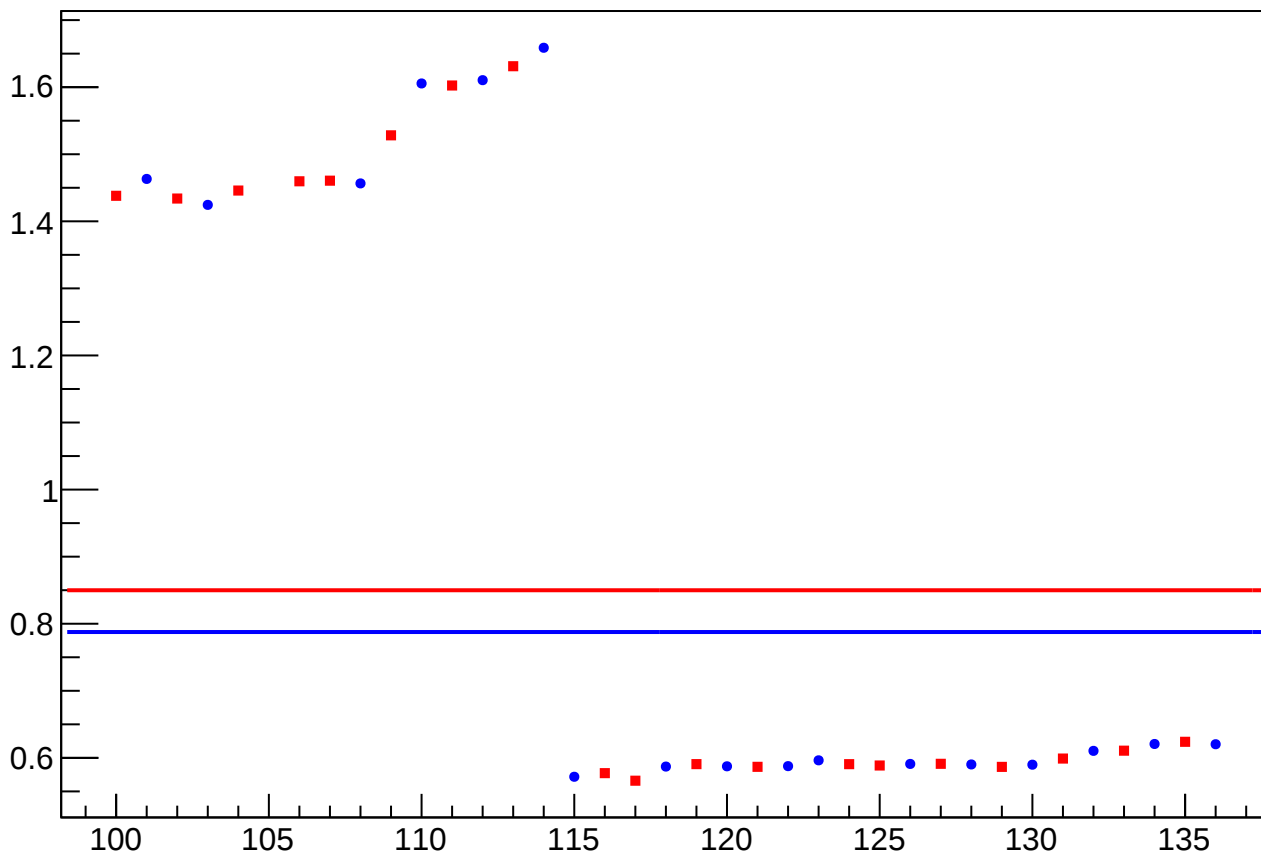
Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 1139703.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.022+/-0.000  $\chi^2/\text{NDF}$ : 954779.5/16

0.023+/-0.000  $\chi^2/\text{NDF}$ : 1139703.6/18

# yield\_bpm4aY\_mean vs Slug



Right In: 0.788+/-0.000  $\chi^2/\text{NDF}$ : 3581400502.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

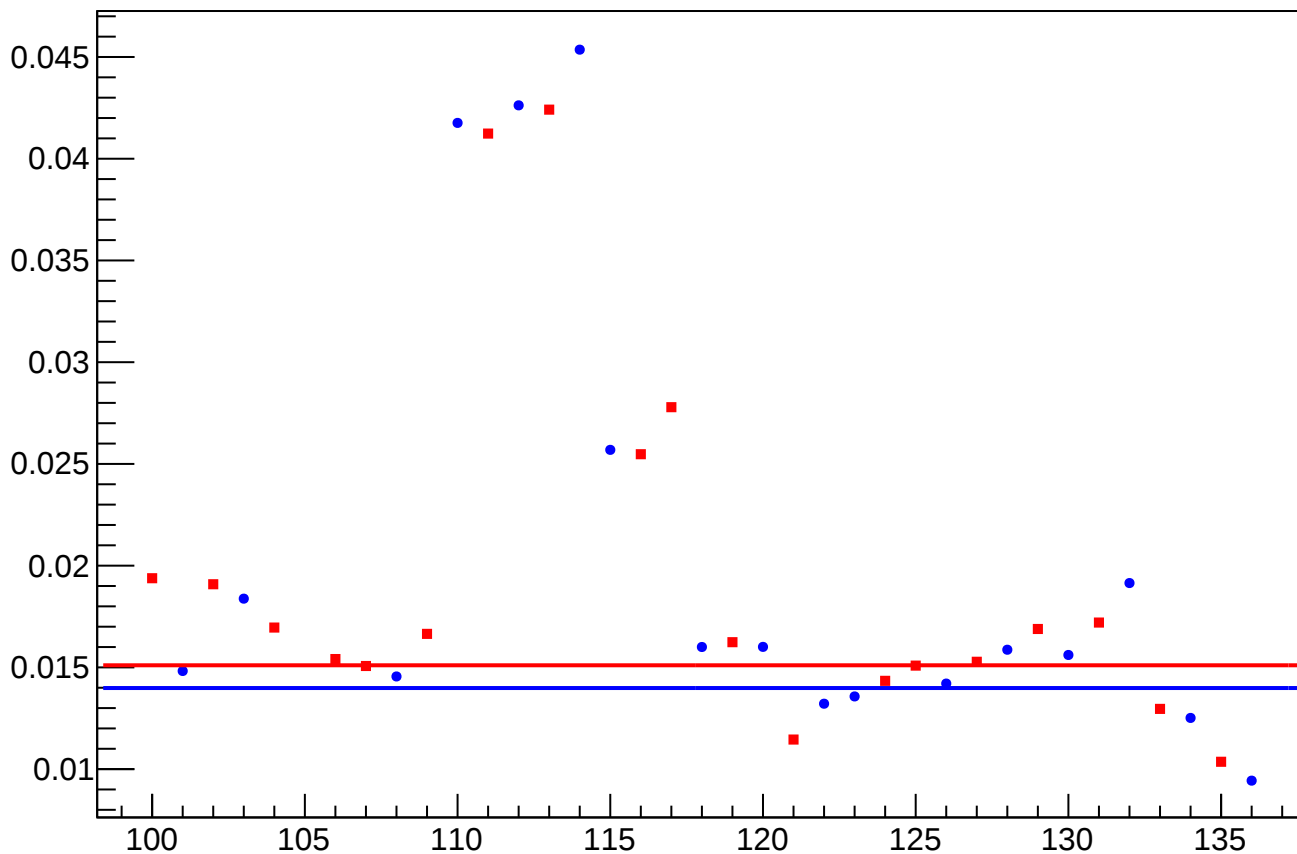
Right Out: 0.850+/-0.000  $\chi^2/\text{NDF}$ : 4058931977.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.788+/-0.000  $\chi^2/\text{NDF}$ : 3581400502.4/16

0.850+/-0.000  $\chi^2/\text{NDF}$ : 4058931977.8/18

# yield\_bpm4aY\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1398505.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

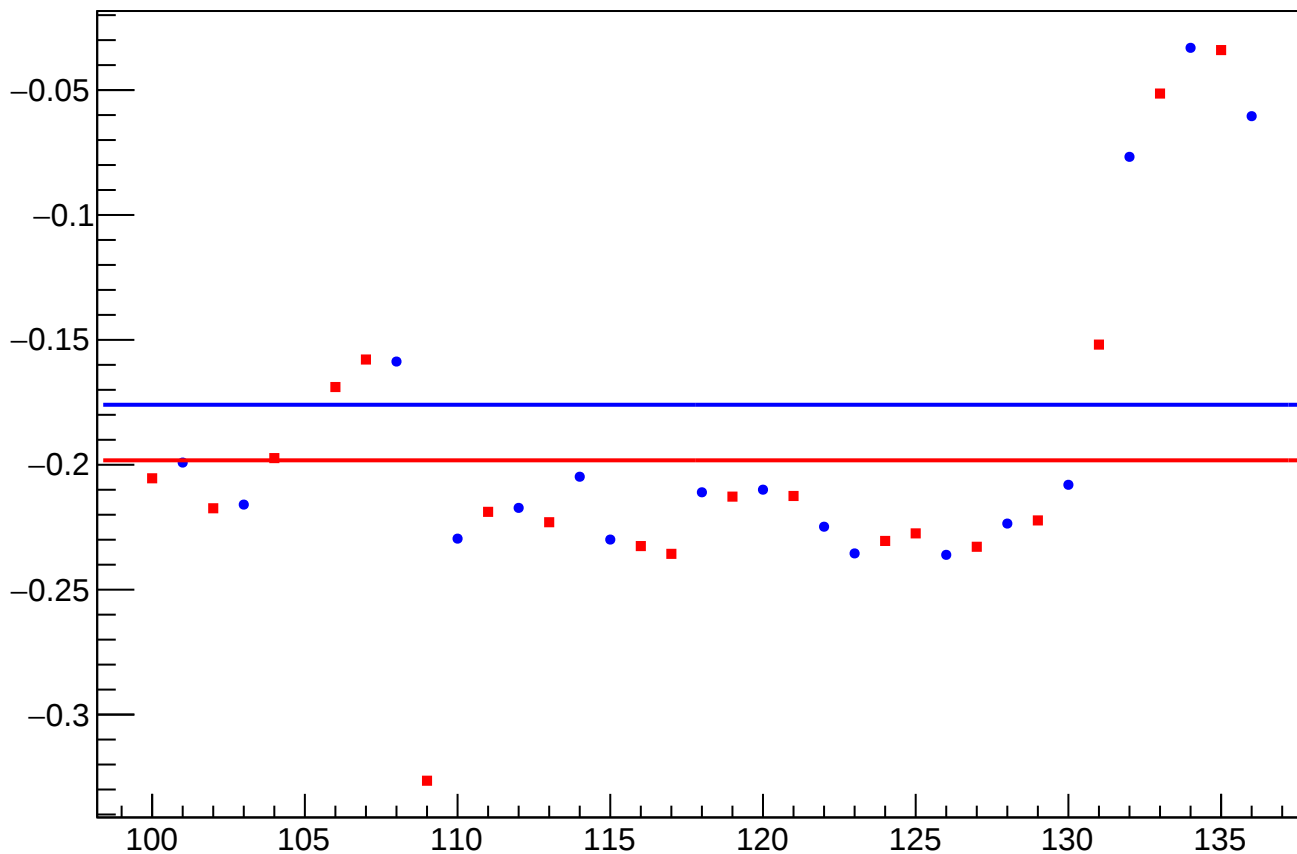
Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1164038.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 1398505.7/16

0.015+/-0.000  $\chi^2/\text{NDF}$ : 1164038.6/18

# yield\_bpm4eX\_mean vs Slug



Right In: -0.176+/-0.000  $\chi^2/\text{NDF}$ : 70121069.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

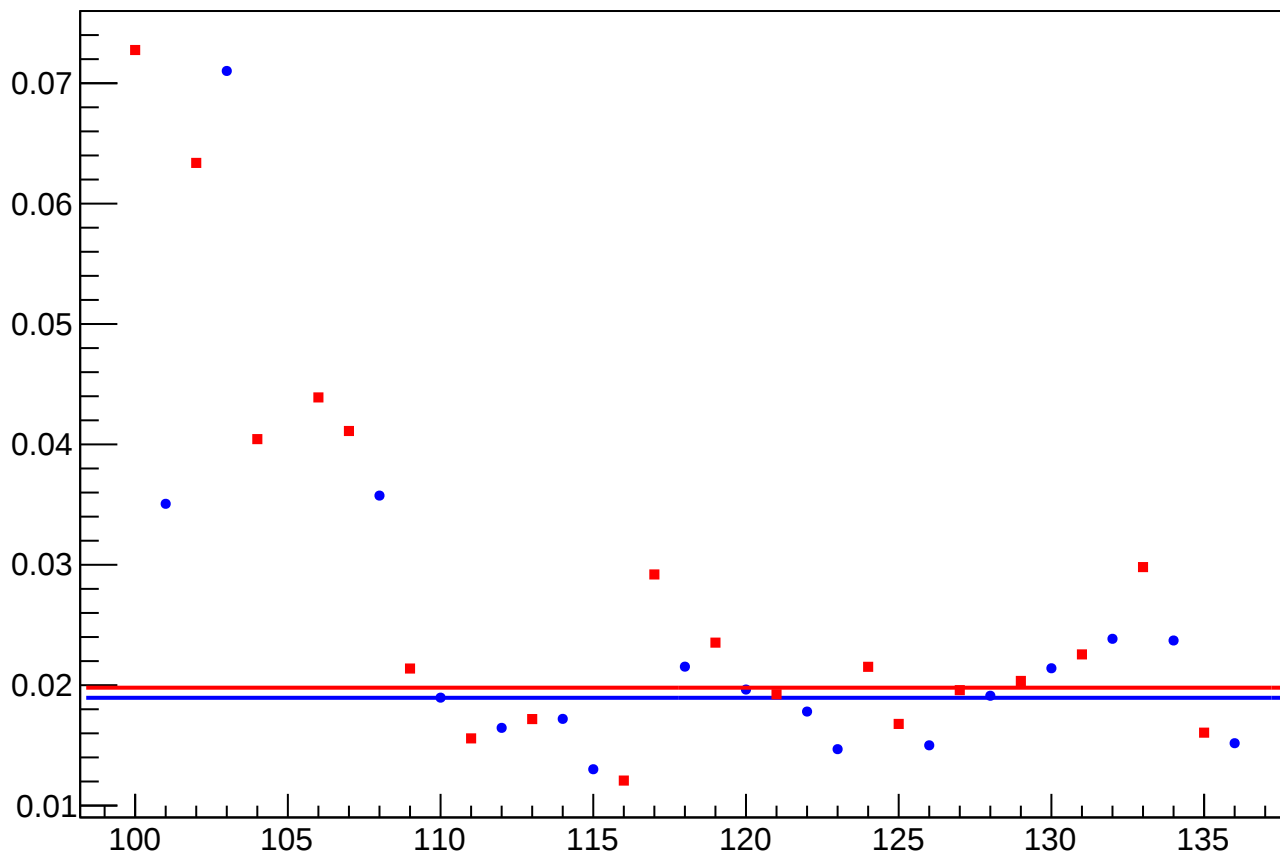
Right Out: -0.198+/-0.000  $\chi^2/\text{NDF}$ : 72858806.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.176+/-0.000  $\chi^2/\text{NDF}$ : 70121069.1/16

-0.198+/-0.000  $\chi^2/\text{NDF}$ : 72858806.1/18

# yield\_bpm4eX\_rms vs Slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 1203275.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

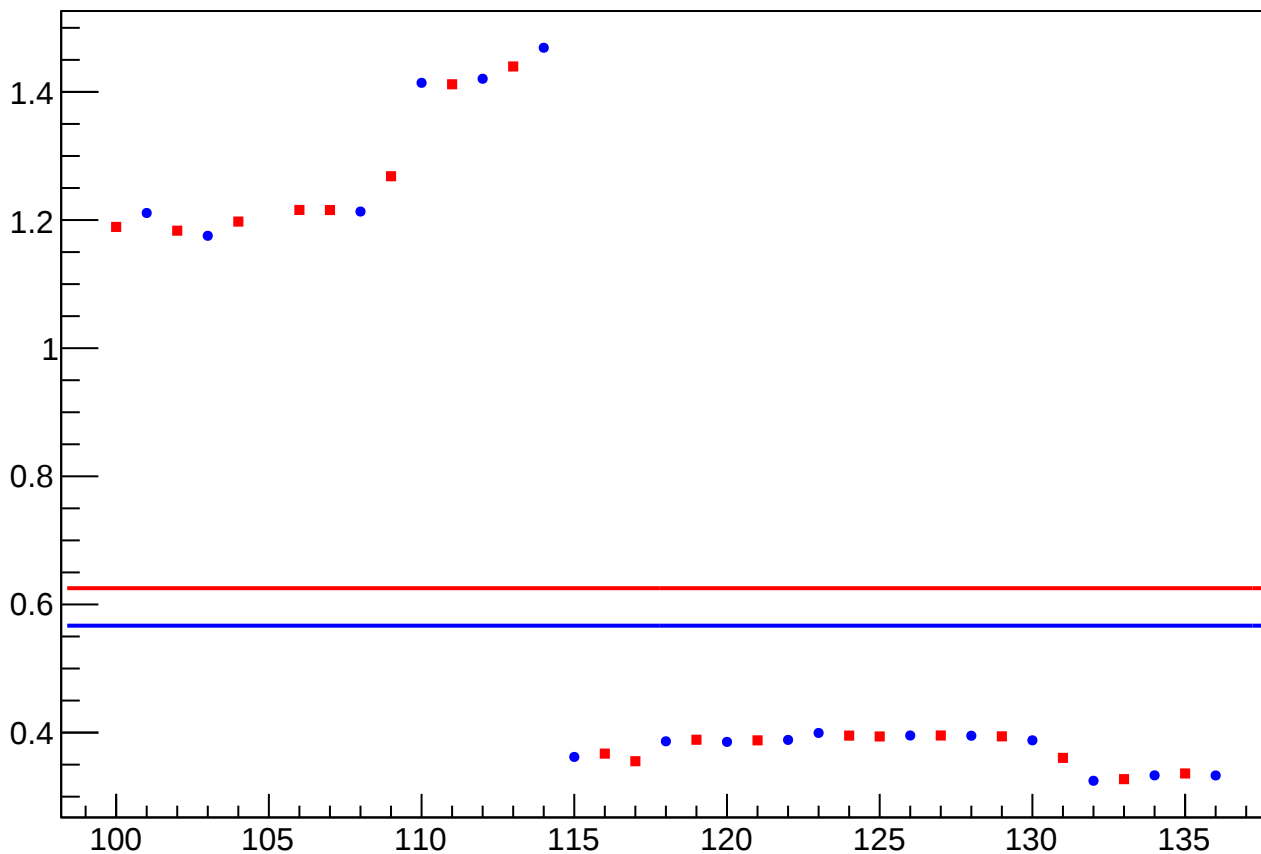
Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1447723.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.019+/-0.000  $\chi^2/\text{NDF}$ : 1203275.7/16

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1447723.6/18

# yield\_bpm4eY\_mean vs Slug



Right In: 0.567+/-0.000  $\chi^2/\text{NDF}$ : 5016913731.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

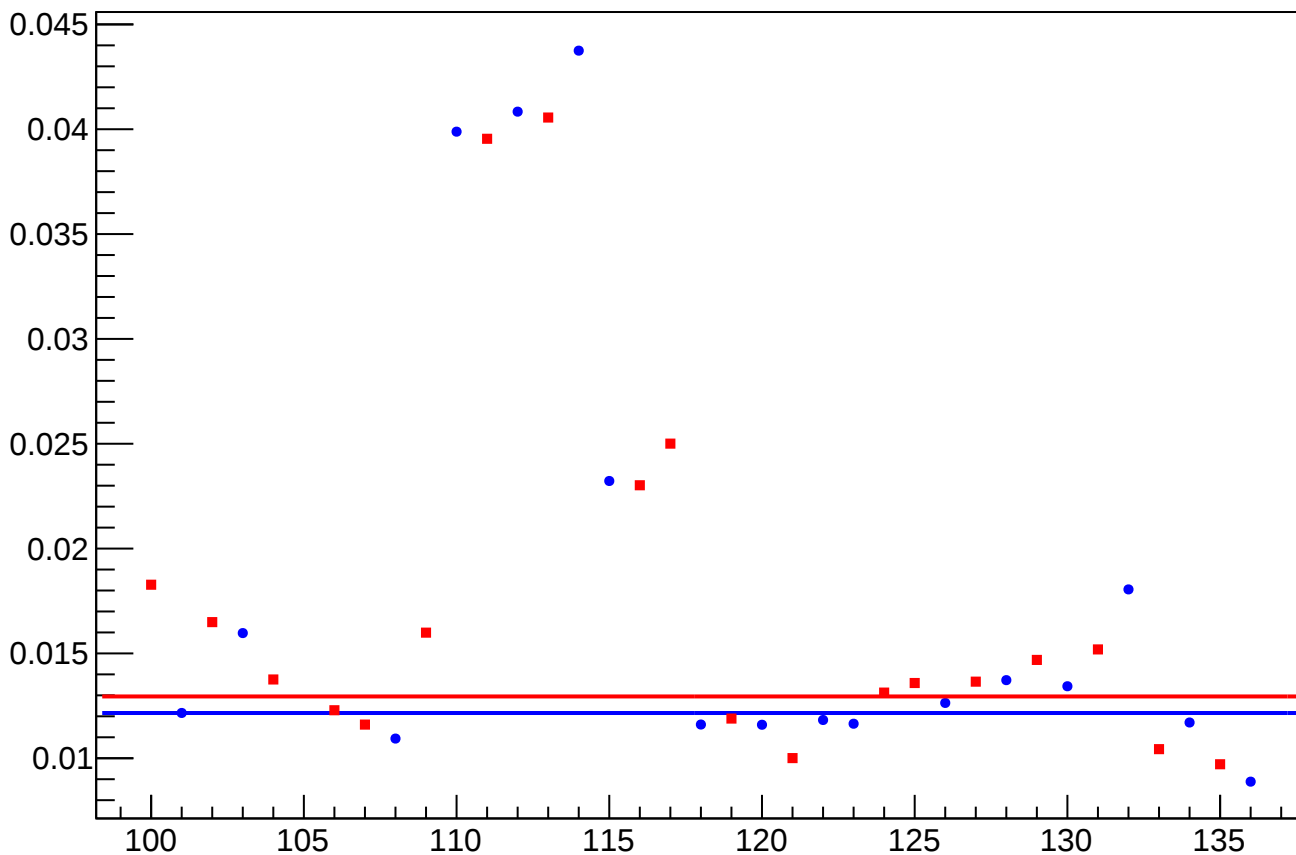
Right Out: 0.625+/-0.000  $\chi^2/\text{NDF}$ : 5324530703.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.567+/-0.000  $\chi^2/\text{NDF}$ : 5016913731.3/16

0.625+/-0.000  $\chi^2/\text{NDF}$ : 5324530703.5/18

# yield\_bpm4eY\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1307948.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

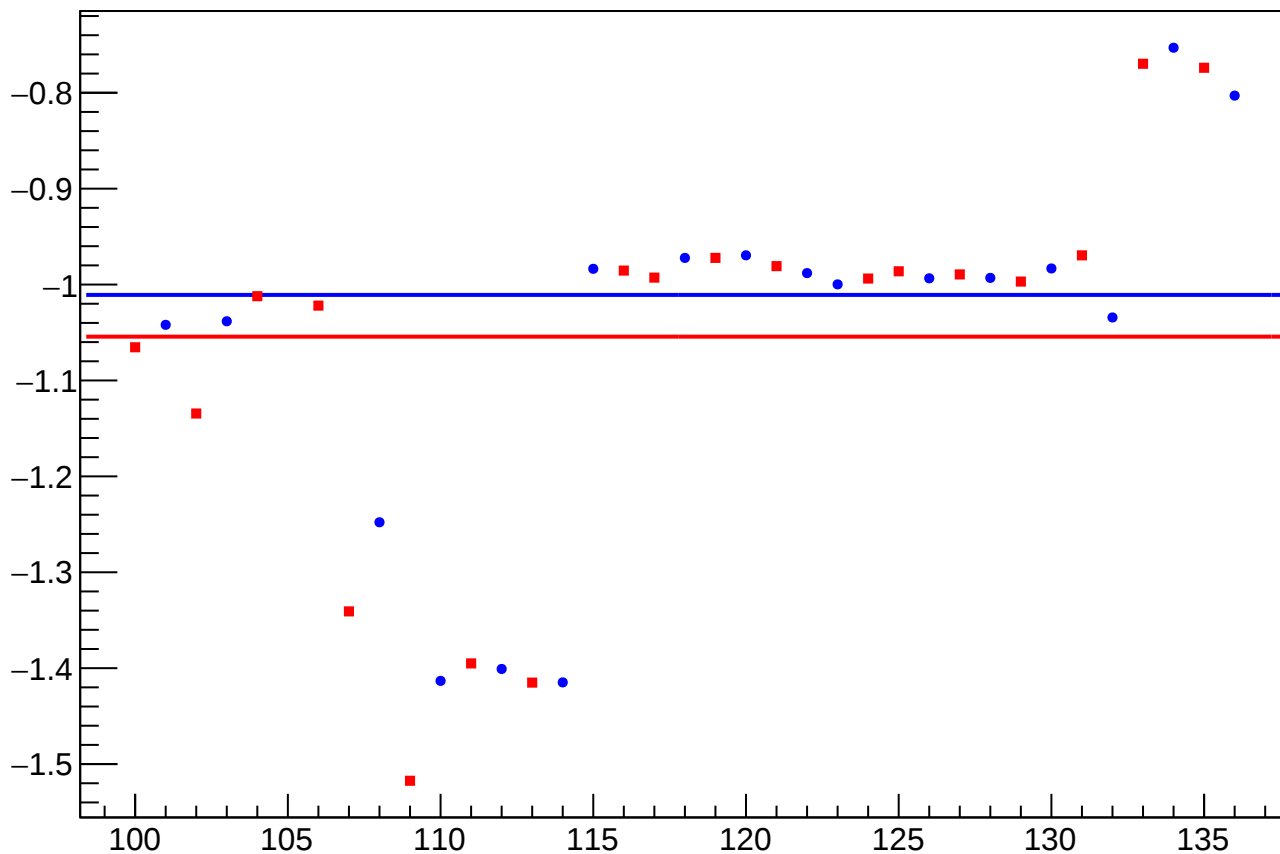
Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1213076.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.012+/-0.000  $\chi^2/\text{NDF}$ : 1307948.2/16

0.013+/-0.000  $\chi^2/\text{NDF}$ : 1213076.6/18

# yield\_bpm4acX\_mean vs Slug



Right In: -1.011+/-0.000  $\chi^2/\text{NDF}$ : 387140230.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

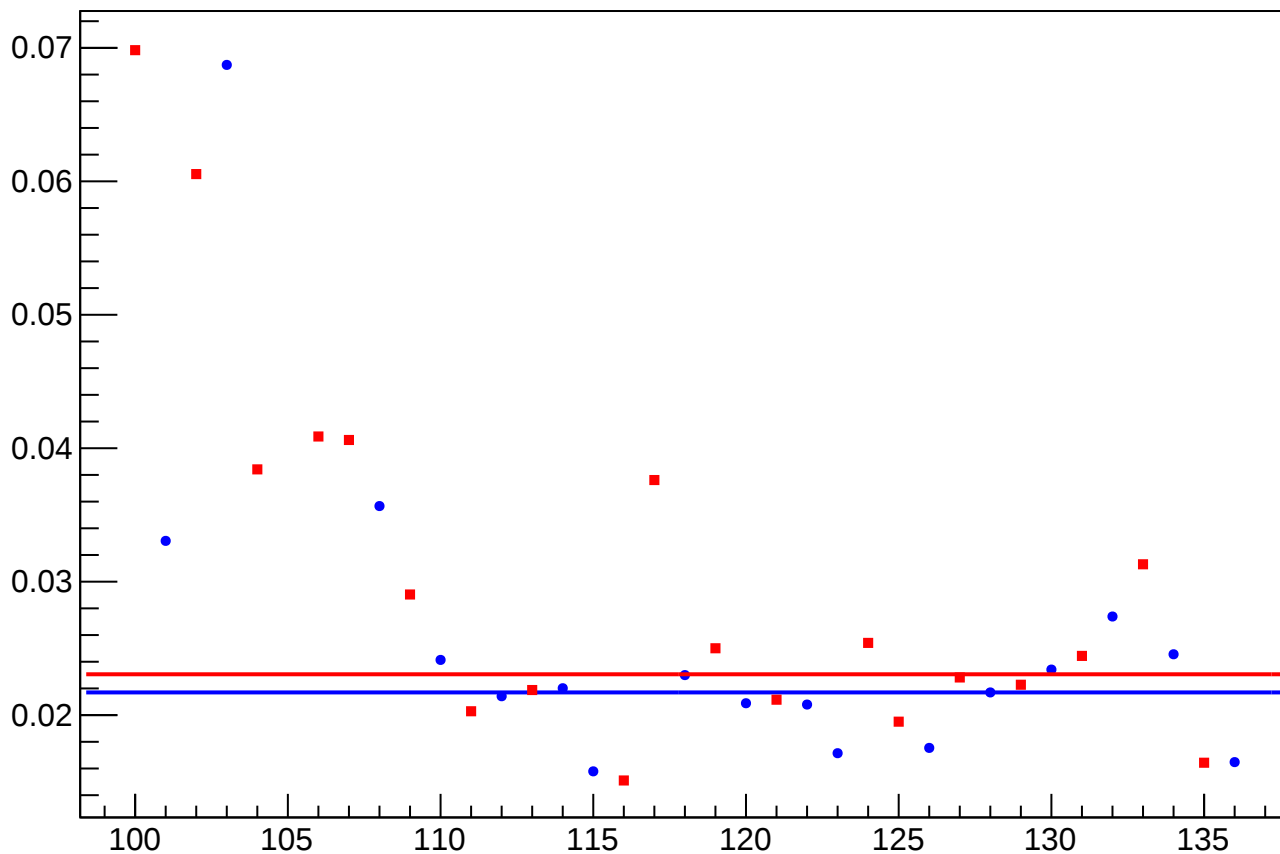
Right Out: -1.054+/-0.000  $\chi^2/\text{NDF}$ : 500141207.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.011+/-0.000  $\chi^2/\text{NDF}$ : 387140230.3/16

-1.054+/-0.000  $\chi^2/\text{NDF}$ : 500141207.6/18

# yield\_bpm4acX\_rms vs Slug



Right In: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 979293.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

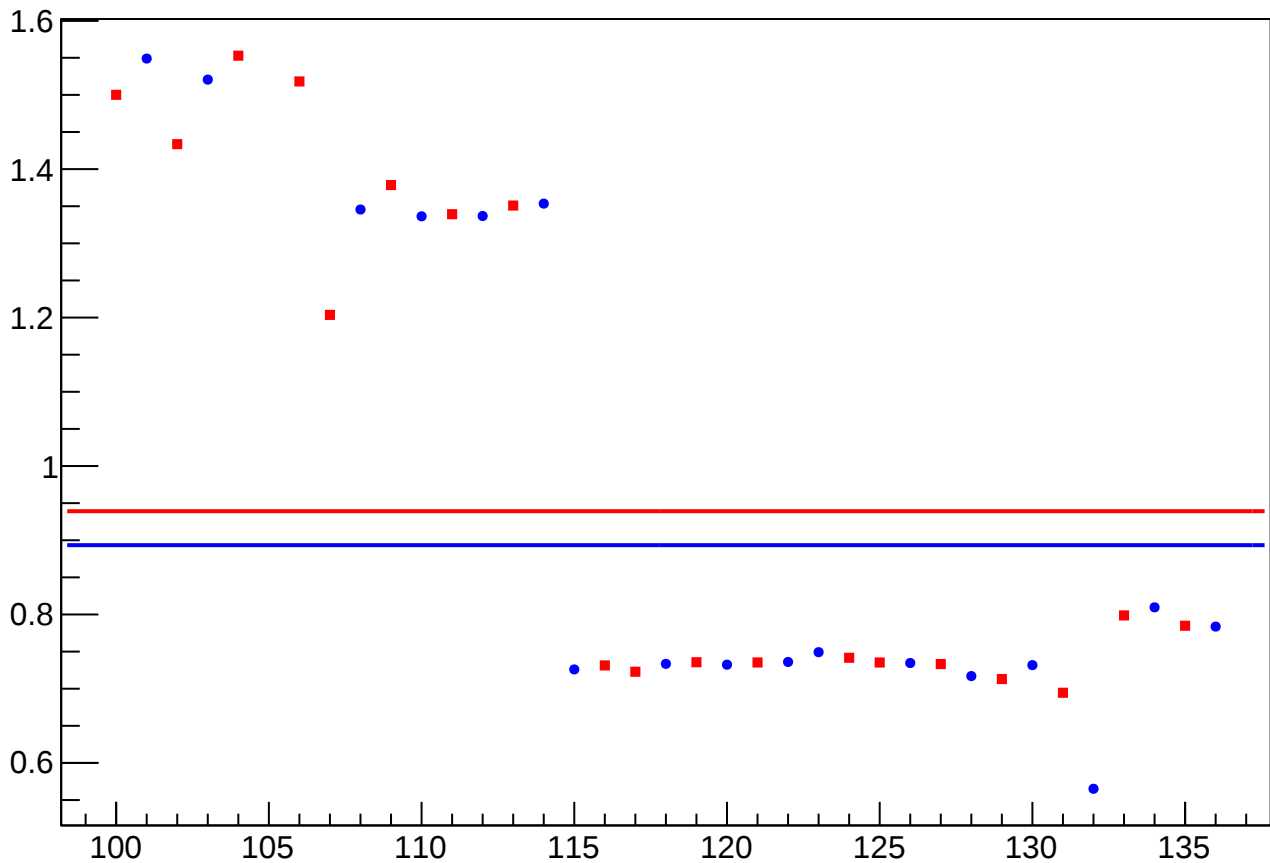
Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 1135246.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.022+/-0.000  $\chi^2/\text{NDF}$ : 979293.5/16

0.023+/-0.000  $\chi^2/\text{NDF}$ : 1135246.9/18

# yield\_bpm4acY\_mean vs Slug



Right In: 0.893+/-0.000  $\chi^2/\text{NDF}$ : 2408017556.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

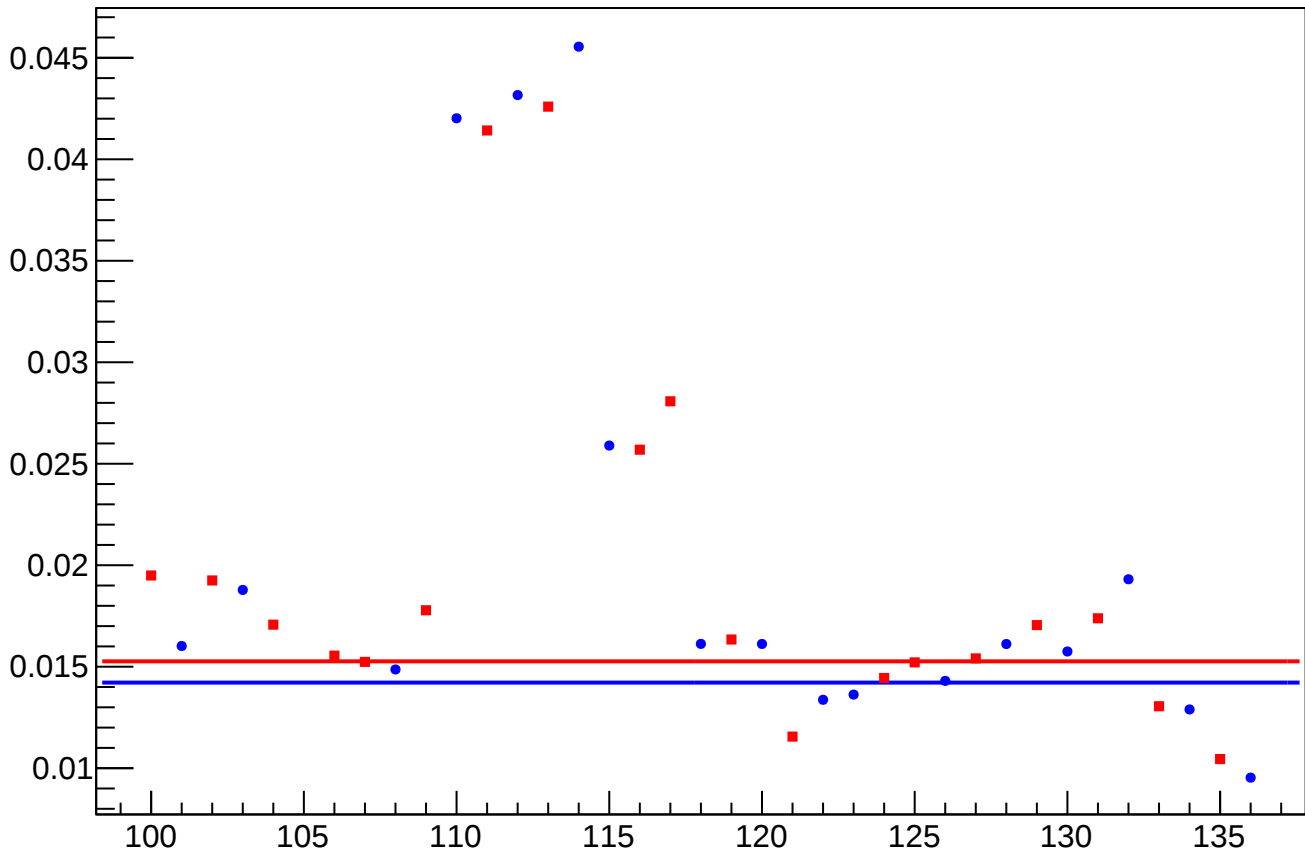
0.893+/-0.000  $\chi^2/\text{NDF}$ : 2408017556.1/16

Right Out: 0.939+/-0.000  $\chi^2/\text{NDF}$ : 2394931153.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.939+/-0.000  $\chi^2/\text{NDF}$ : 2394931153.5/18

# yield\_bpm4acY\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1409594.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

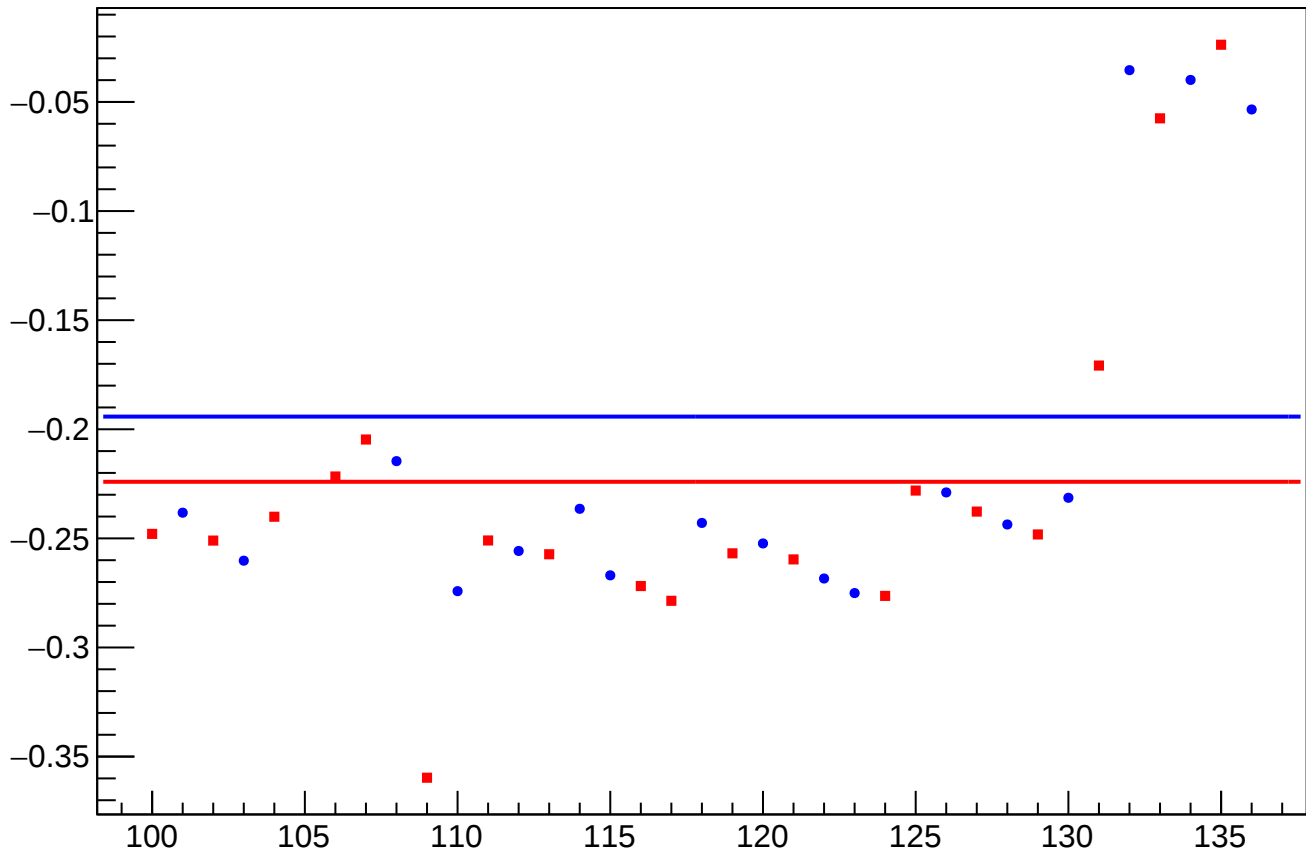
Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1168835.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 1409594.2/16

0.015+/-0.000  $\chi^2/\text{NDF}$ : 1168835.8/18

# yield\_bpm4ecX\_mean vs Slug



Right In: -0.194+/-0.000  $\chi^2/\text{NDF}$ : 108425823.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

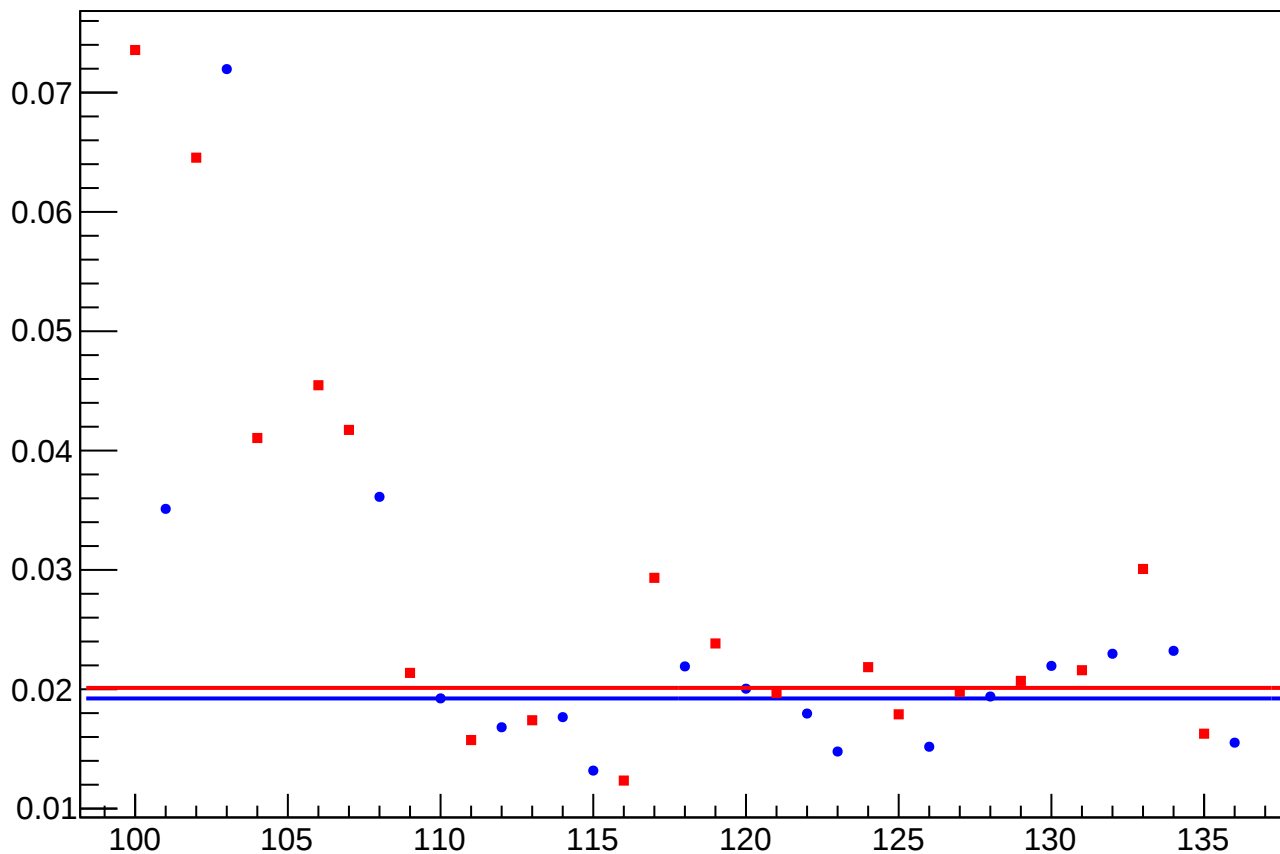
-0.194+/-0.000  $\chi^2/\text{NDF}$ : 108425823.4/16

Right Out: -0.224+/-0.000  $\chi^2/\text{NDF}$ : 95193136.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.224+/-0.000  $\chi^2/\text{NDF}$ : 95193136.5/18

# yield\_bpm4ecX\_rms vs Slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 1174577.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

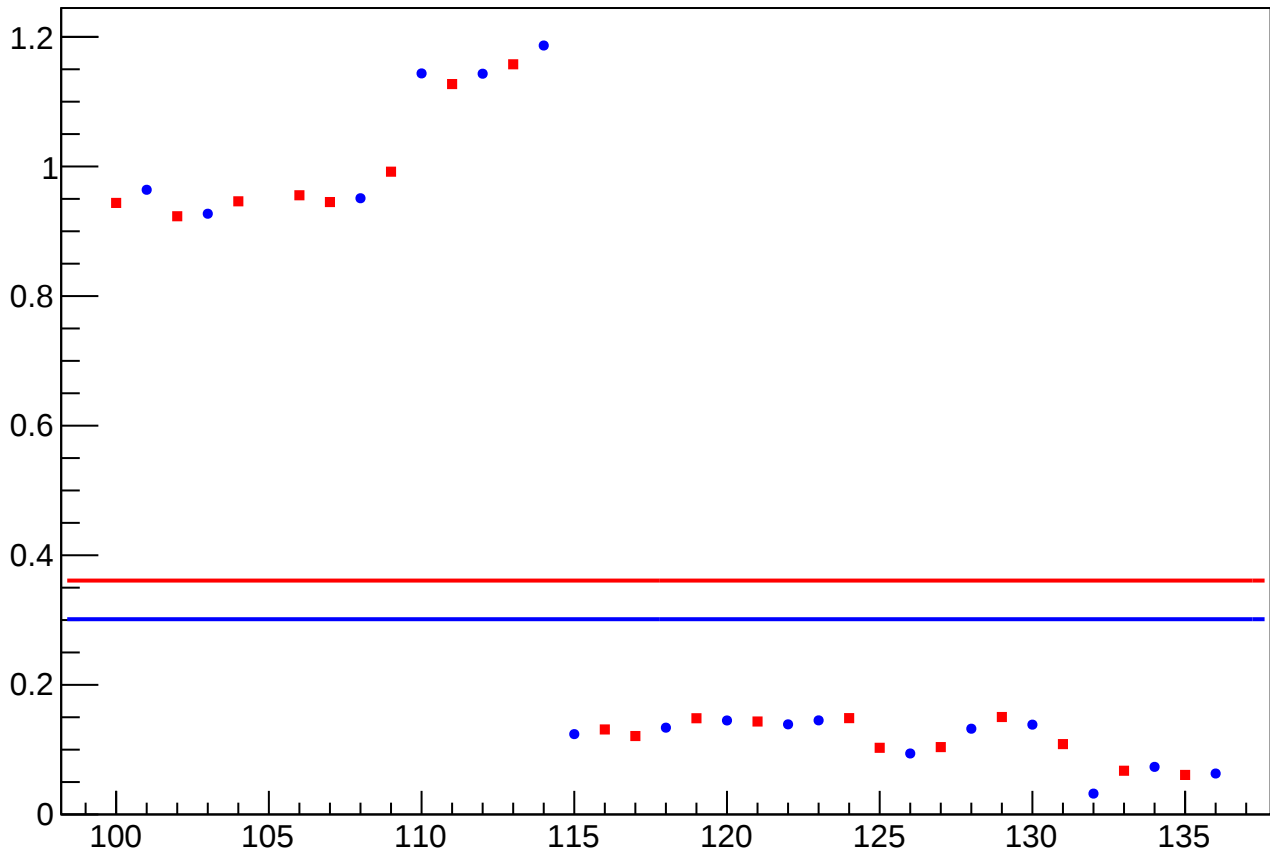
Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1433829.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.019+/-0.000  $\chi^2/\text{NDF}$ : 1174577.3/16

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1433829.3/18

# yield\_bpm4ecY\_mean vs Slug



Right In: 0.301+/-0.000  $\chi^2/\text{NDF}$ : 5154791073.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

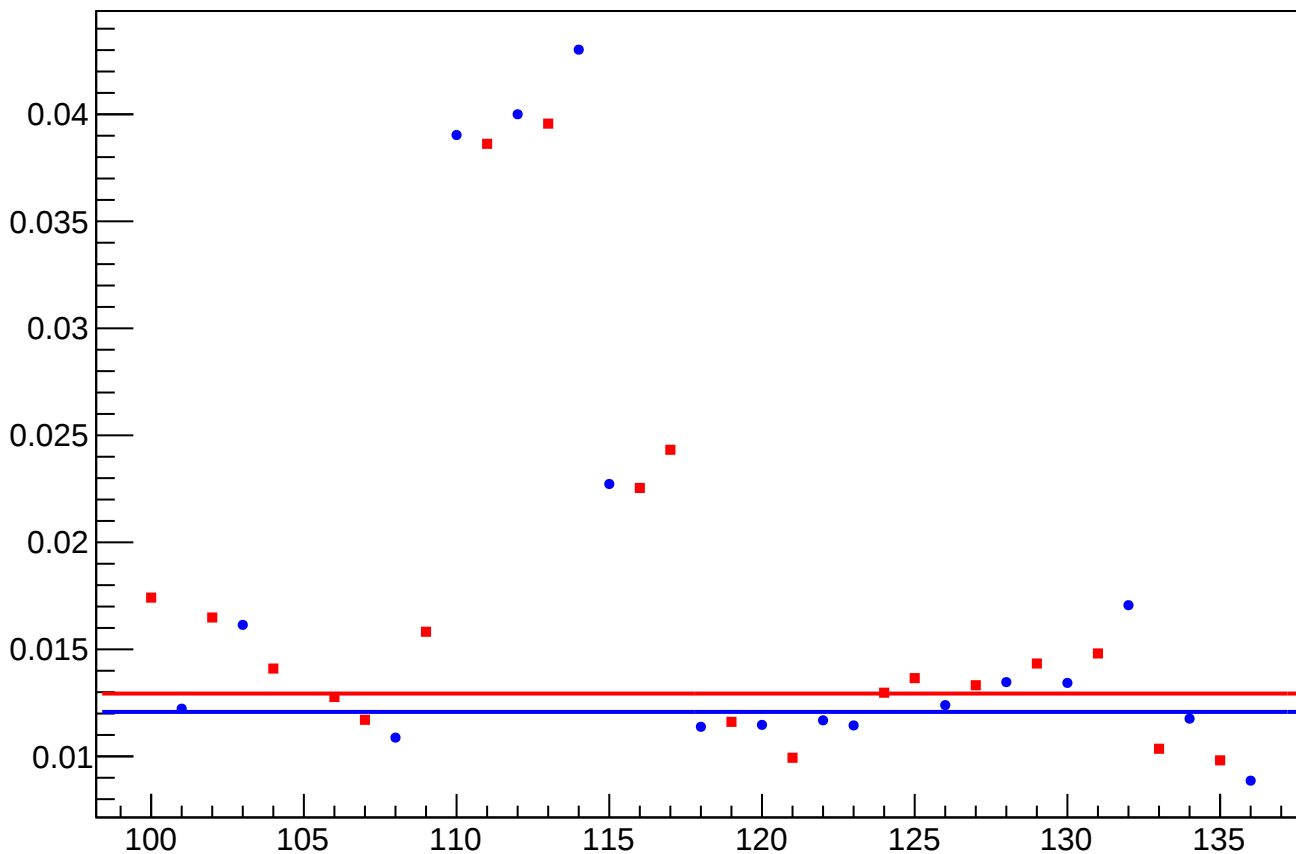
0.301+/-0.000  $\chi^2/\text{NDF}$ : 5154791073.8/16

Right Out: 0.361+/-0.000  $\chi^2/\text{NDF}$ : 5246228414.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.361+/-0.000  $\chi^2/\text{NDF}$ : 5246228414.4/18

# yield\_bpm4ecY\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1280342.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

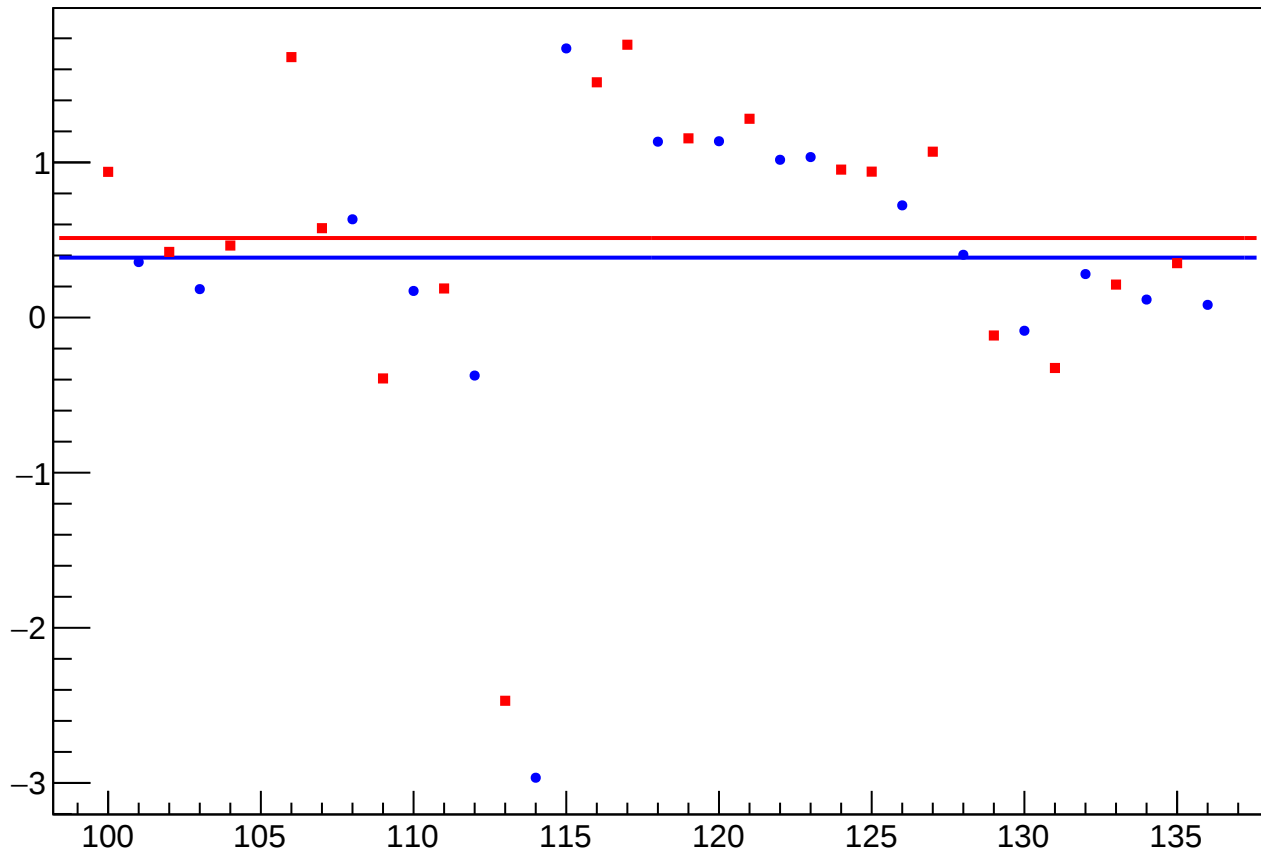
Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1175904.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.012+/-0.000  $\chi^2/\text{NDF}$ : 1280342.2/16

0.013+/-0.000  $\chi^2/\text{NDF}$ : 1175904.9/18

yield\_bpm1X\_mean vs Slug



Right In: 0.386+/-0.000  $\chi^2/\text{NDF}$ : 246380221.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

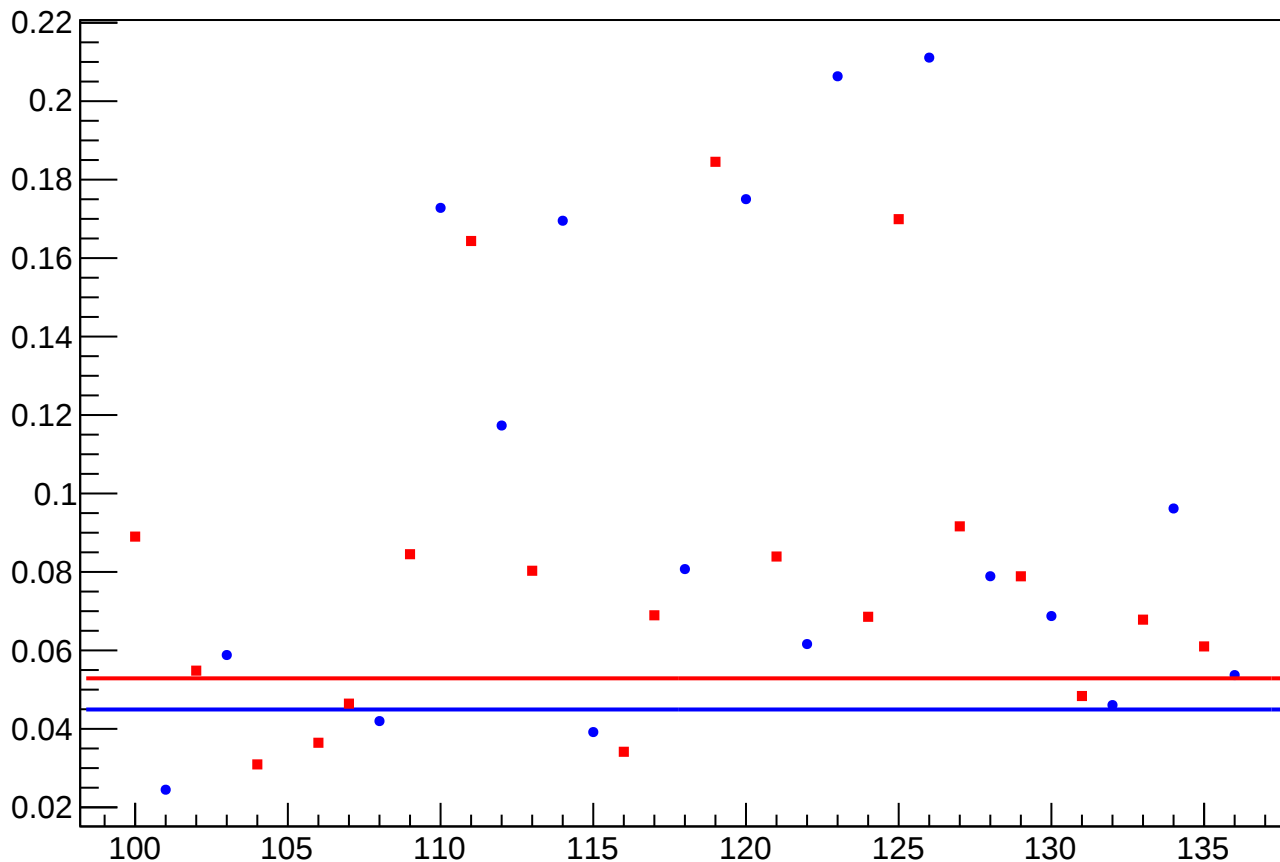
0.386+/-0.000  $\chi^2/\text{NDF}$ : 246380221.7/16

Right Out: 0.513+/-0.000  $\chi^2/\text{NDF}$ : 993423203.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.513+/-0.000  $\chi^2/\text{NDF}$ : 993423203.7/18

# yield\_bpm1X\_rms vs Slug



Right In: 0.045+/-0.000  $\chi^2/\text{NDF}$ : 2788348.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

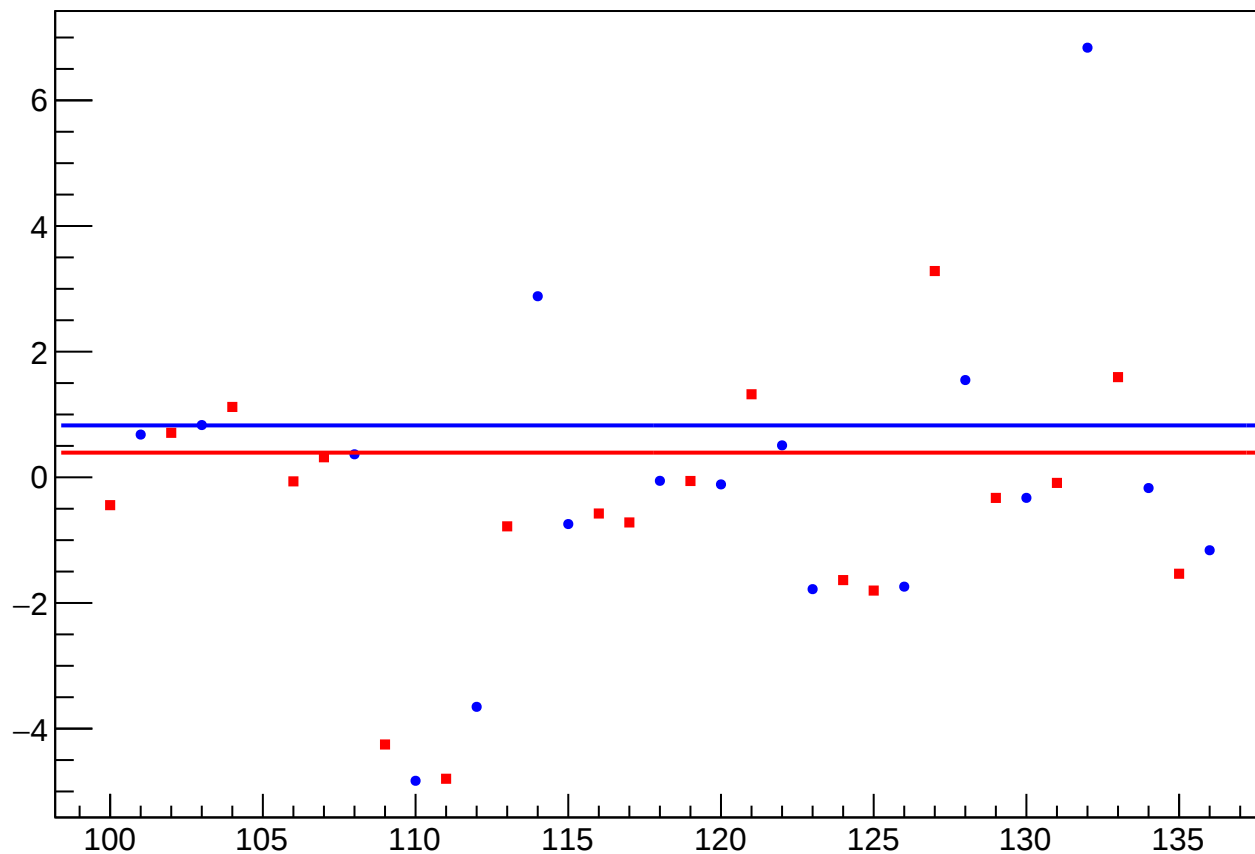
Right Out: 0.053+/-0.000  $\chi^2/\text{NDF}$ : 2192914.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.045+/-0.000  $\chi^2/\text{NDF}$ : 2788348.6/16

0.053+/-0.000  $\chi^2/\text{NDF}$ : 2192914.8/18

# yield\_bpm1Y\_mean vs Slug



Right In: 0.826+/-0.000  $\chi^2/\text{NDF}$ : 10945455664.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

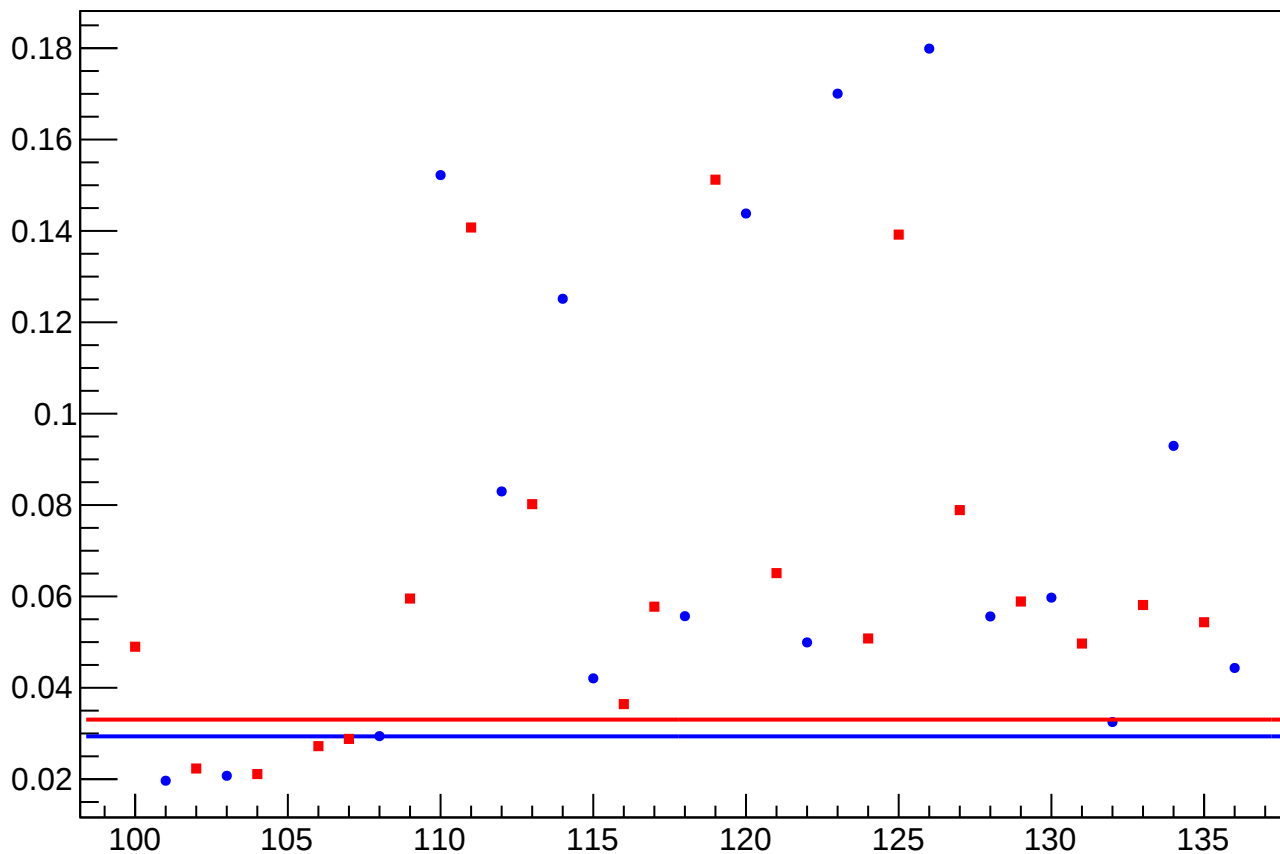
Right Out: 0.393+/-0.000  $\chi^2/\text{NDF}$ : 4834226418.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.826+/-0.000  $\chi^2/\text{NDF}$ : 10945455664.9/16

0.393+/-0.000  $\chi^2/\text{NDF}$ : 4834226418.1/18

# yield\_bpm1Y\_rms vs Slug



Right In: 0.029+/-0.000  $\chi^2/\text{NDF}$ : 2987169.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

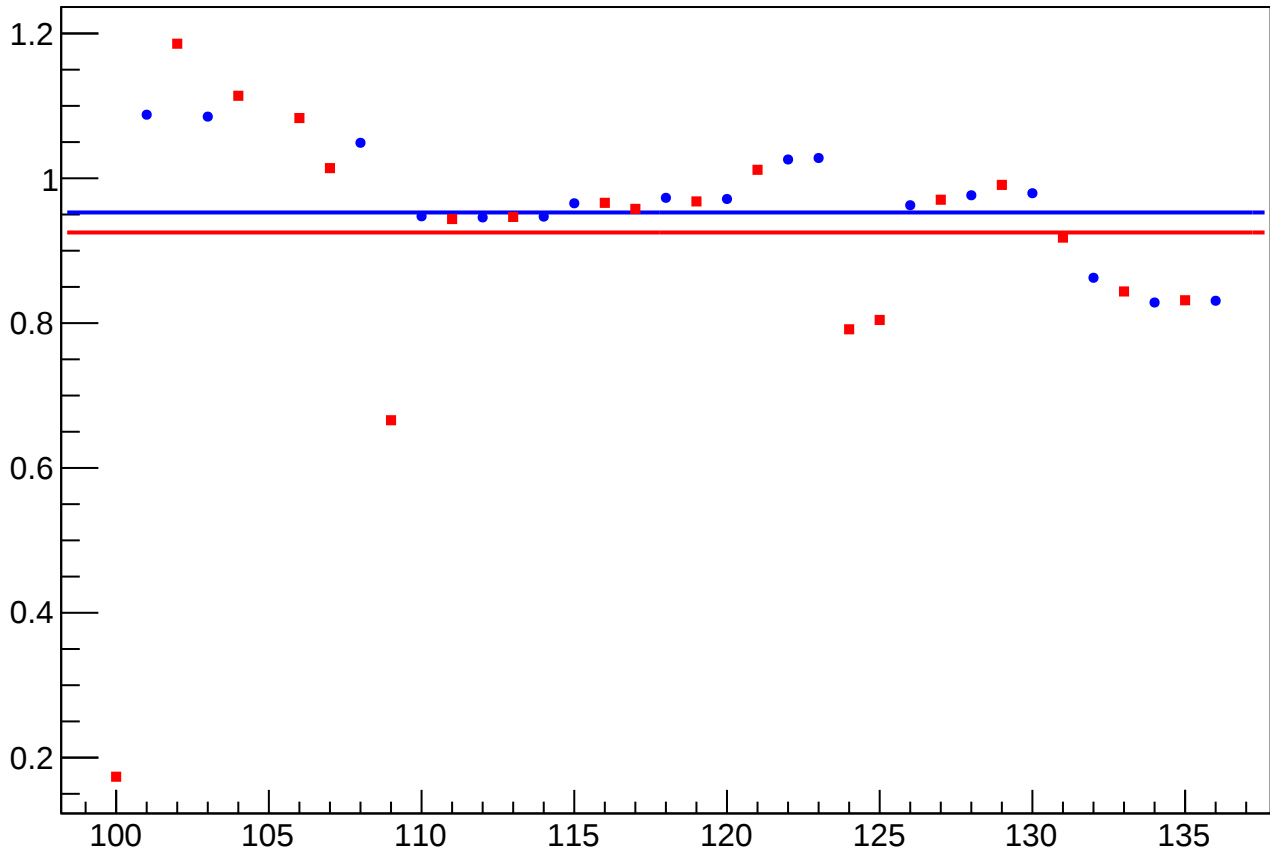
Right Out: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 3091638.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.029+/-0.000  $\chi^2/\text{NDF}$ : 2987169.5/16

0.033+/-0.000  $\chi^2/\text{NDF}$ : 3091638.2/18

# yield\_bpm11X\_mean vs Slug



Right In: 0.953+/-0.000  $\chi^2/\text{NDF}$ : 175750243.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

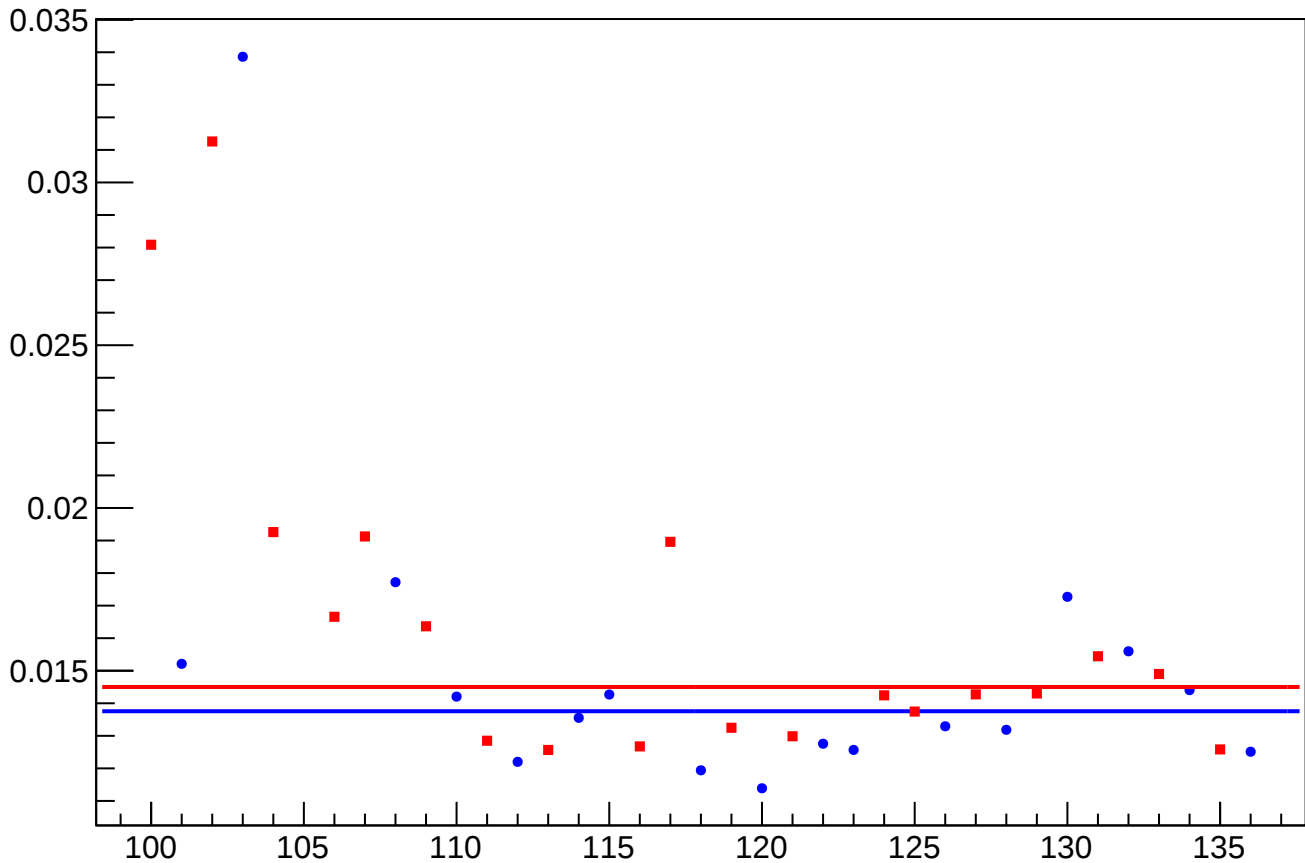
0.953+/-0.000  $\chi^2/\text{NDF}$ : 175750243.6/16

Right Out: 0.925+/-0.000  $\chi^2/\text{NDF}$ : 363954057.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.925+/-0.000  $\chi^2/\text{NDF}$ : 363954057.6/18

# yield\_bpm11X\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 538469.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

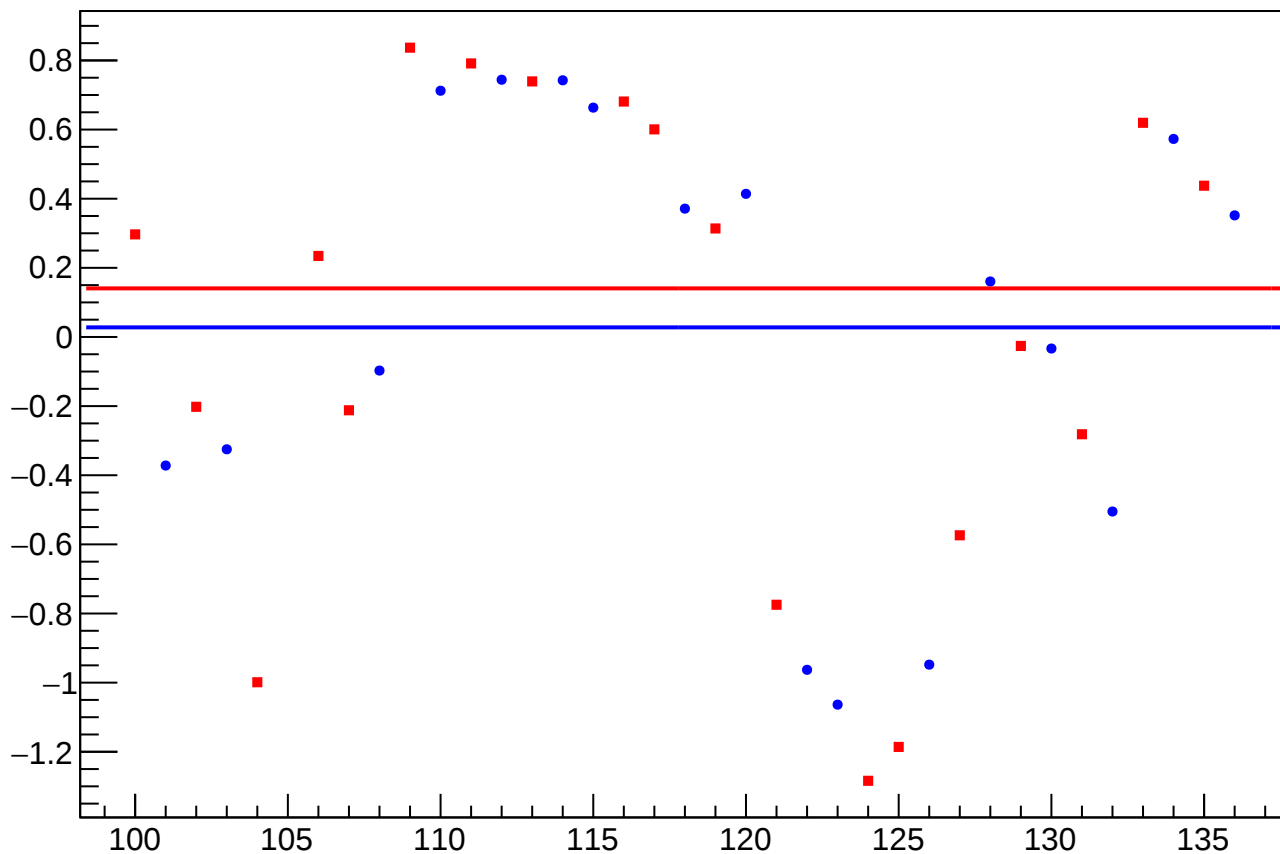
Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 496957.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 538469.4/16

0.014+/-0.000  $\chi^2/\text{NDF}$ : 496957.5/18

# yield\_bpm11Y\_mean vs Slug



Right In: 0.028+/-0.000  $\chi^2/\text{NDF}$ : 6276955529.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

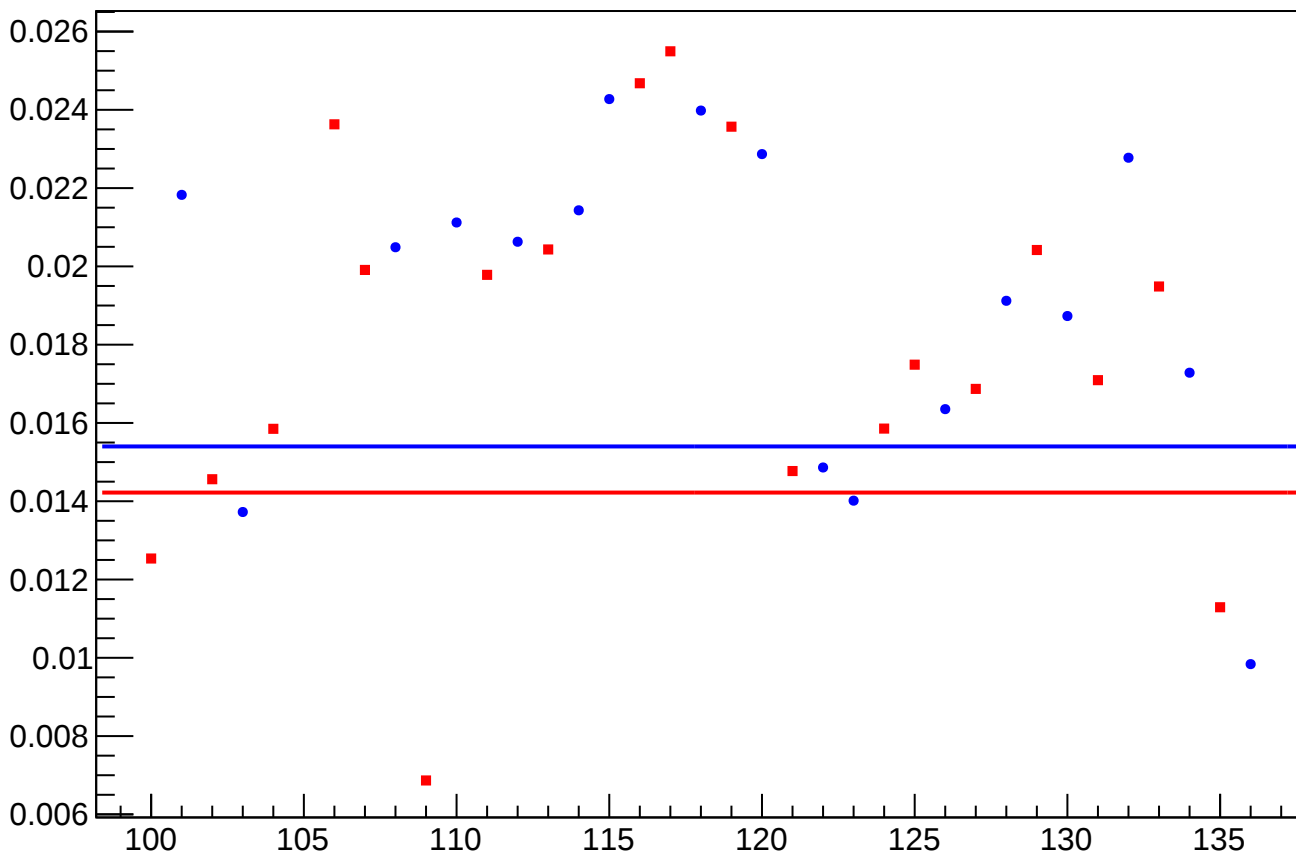
Right Out: 0.141+/-0.000  $\chi^2/\text{NDF}$ : 12606965284.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

0.028+/-0.000  $\chi^2/\text{NDF}$ : 6276955529.7/16

0.141+/-0.000  $\chi^2/\text{NDF}$ : 12606965284.5/18

# yield\_bpm11Y\_rms vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1141655.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

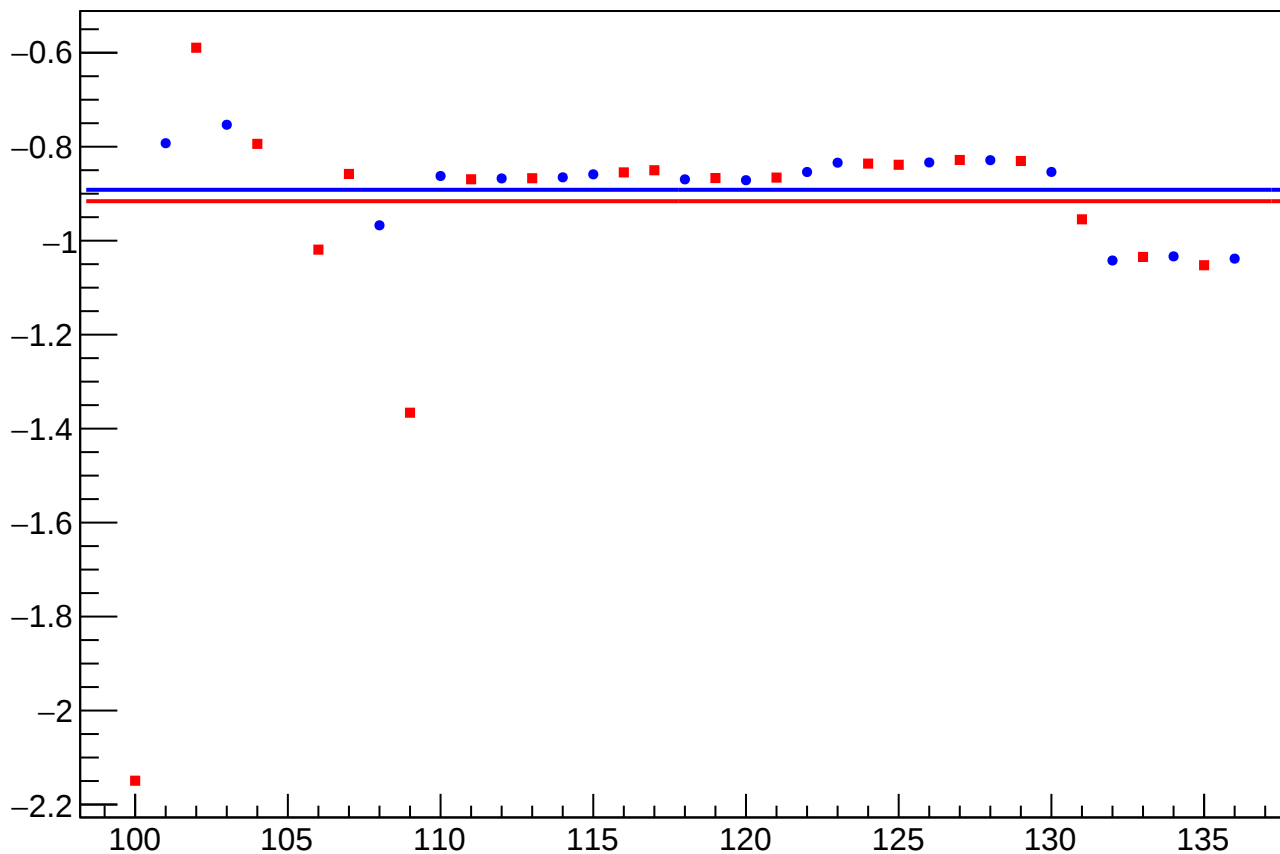
Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1536418.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.015+/-0.000  $\chi^2/\text{NDF}$ : 1141655.8/16

0.014+/-0.000  $\chi^2/\text{NDF}$ : 1536418.3/18

# yield\_bpm12X\_mean vs Slug



Right In: -0.892+/-0.000  $\chi^2/\text{NDF}$ : 39793337.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

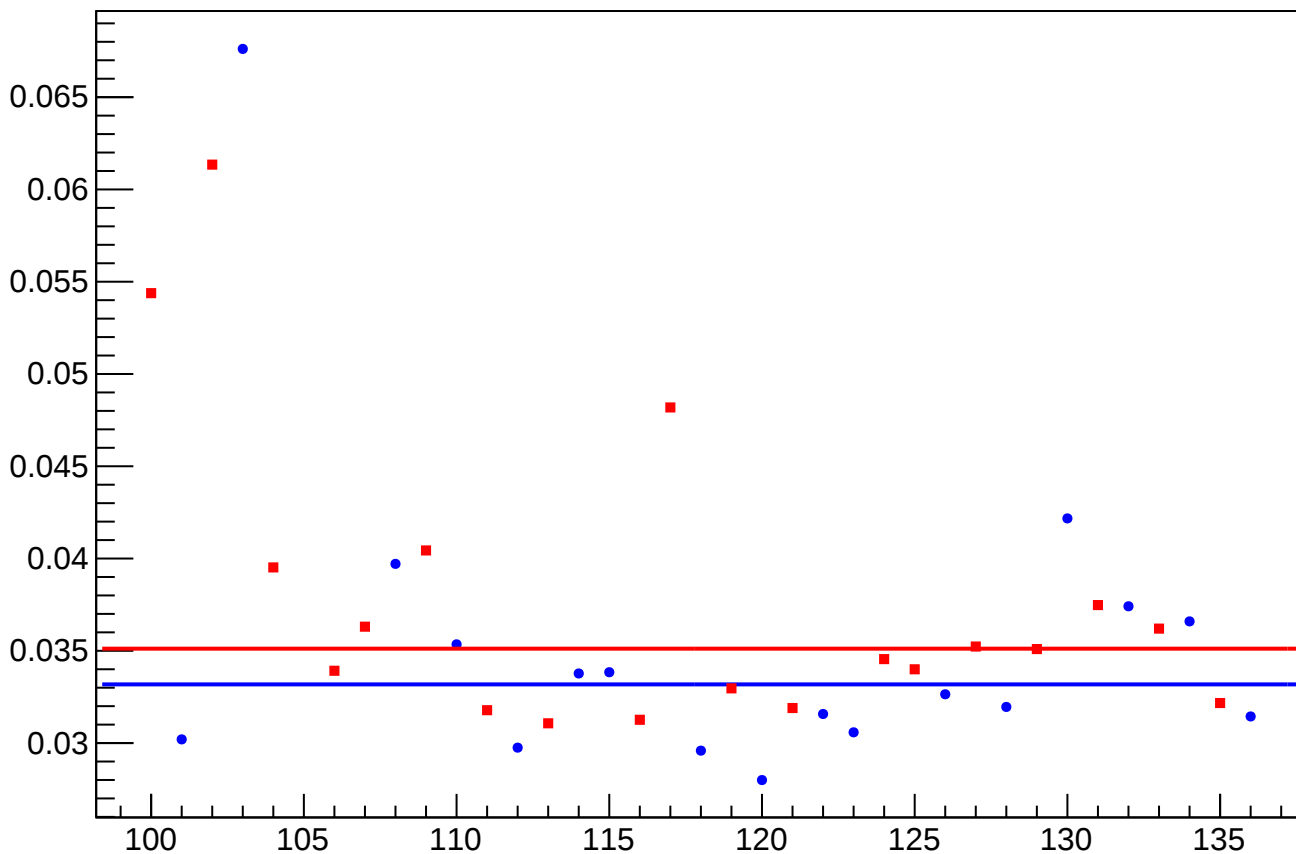
Right Out: -0.916+/-0.000  $\chi^2/\text{NDF}$ : 128336159.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.892+/-0.000  $\chi^2/\text{NDF}$ : 39793337.2/16

-0.916+/-0.000  $\chi^2/\text{NDF}$ : 128336159.1/18

# yield\_bpm12X\_rms vs Slug



Right In: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 400106.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

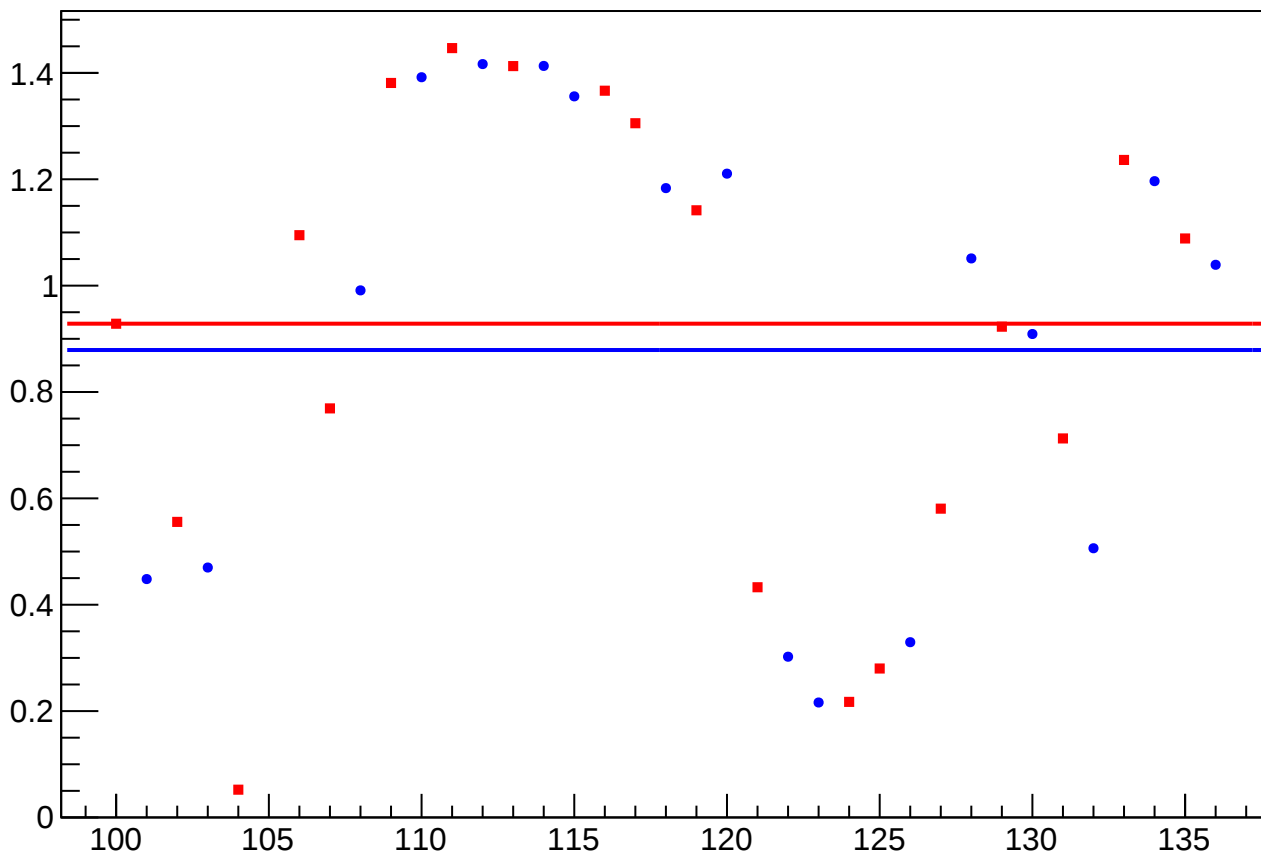
Right Out: 0.035+/-0.000  $\chi^2/\text{NDF}$ : 273069.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.033+/-0.000  $\chi^2/\text{NDF}$ : 400106.0/16

0.035+/-0.000  $\chi^2/\text{NDF}$ : 273069.6/18

yield\_bpm12Y\_mean vs Slug



Right In: 0.879+/-0.000  $\chi^2/\text{NDF}$ : 6371602566.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

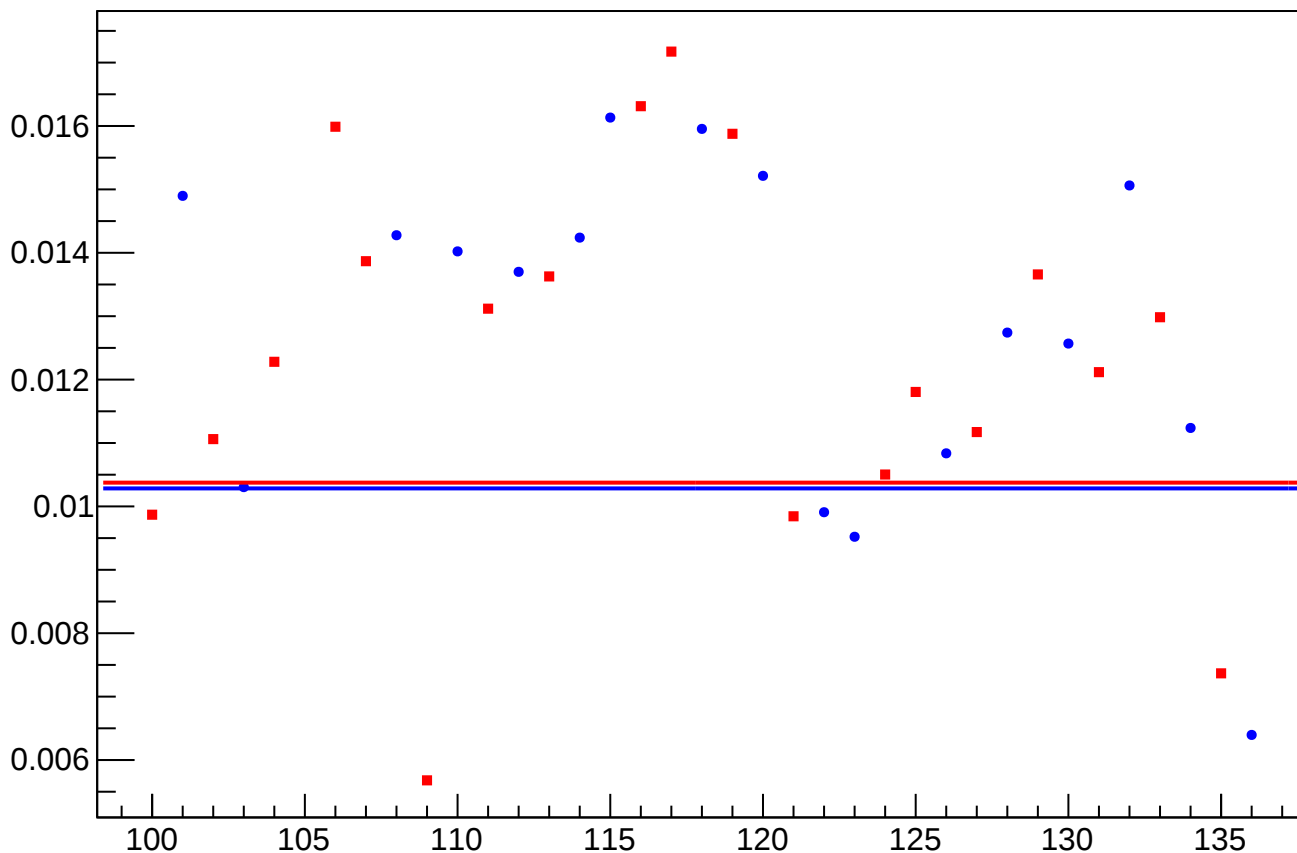
Right Out: 0.928+/-0.000  $\chi^2/\text{NDF}$ : 9808474606.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.879+/-0.000  $\chi^2/\text{NDF}$ : 6371602566.2/16

0.928+/-0.000  $\chi^2/\text{NDF}$ : 9808474606.7/18

# yield\_bpm12Y\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1207460.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

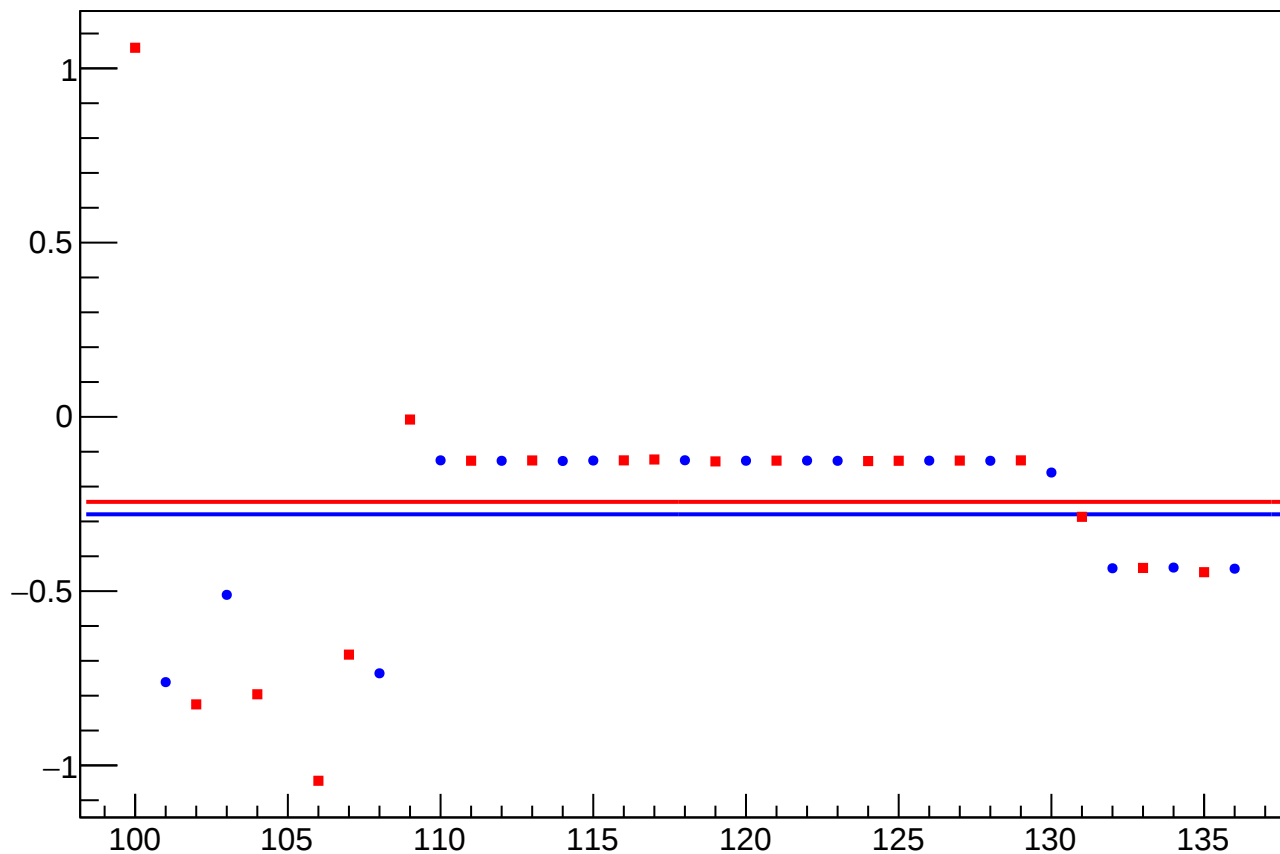
Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1099734.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.010+/-0.000  $\chi^2/\text{NDF}$ : 1207460.1/16

0.010+/-0.000  $\chi^2/\text{NDF}$ : 1099734.0/18

yield\_bpm16X\_mean vs Slug



Right In: -0.280+/-0.000  $\chi^2/\text{NDF}$ : 929210245.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

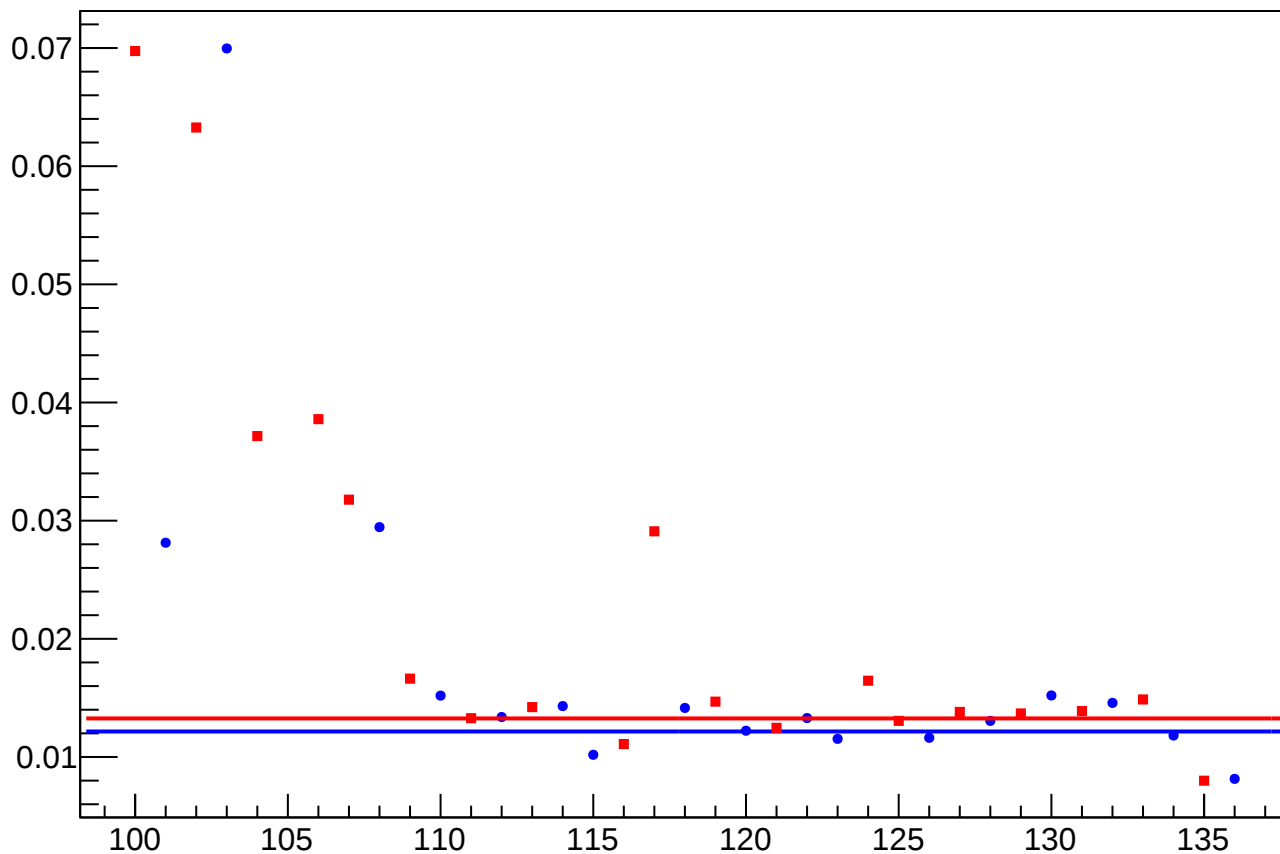
Right Out: -0.244+/-0.000  $\chi^2/\text{NDF}$ : 912161667.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

-0.280+/-0.000  $\chi^2/\text{NDF}$ : 929210245.5/16

-0.244+/-0.000  $\chi^2/\text{NDF}$ : 912161667.9/18

# yield\_bpm16X\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1722777.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

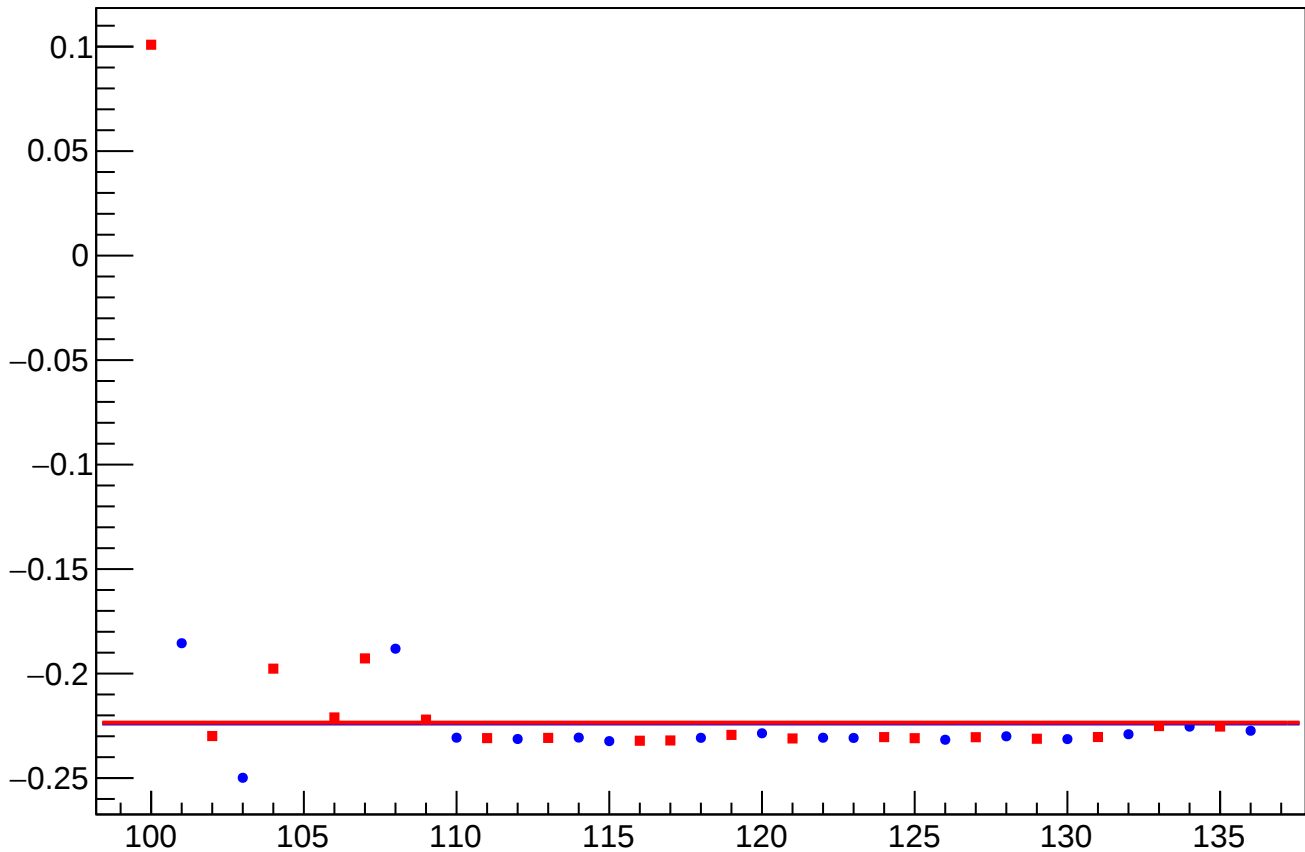
Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1840970.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.012+/-0.000  $\chi^2/\text{NDF}$ : 1722777.4/16

0.013+/-0.000  $\chi^2/\text{NDF}$ : 1840970.6/18

yield\_bpm16Y\_mean vs Slug



Right In: -0.224+/-0.000  $\chi^2/\text{NDF}$ : 74600073.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

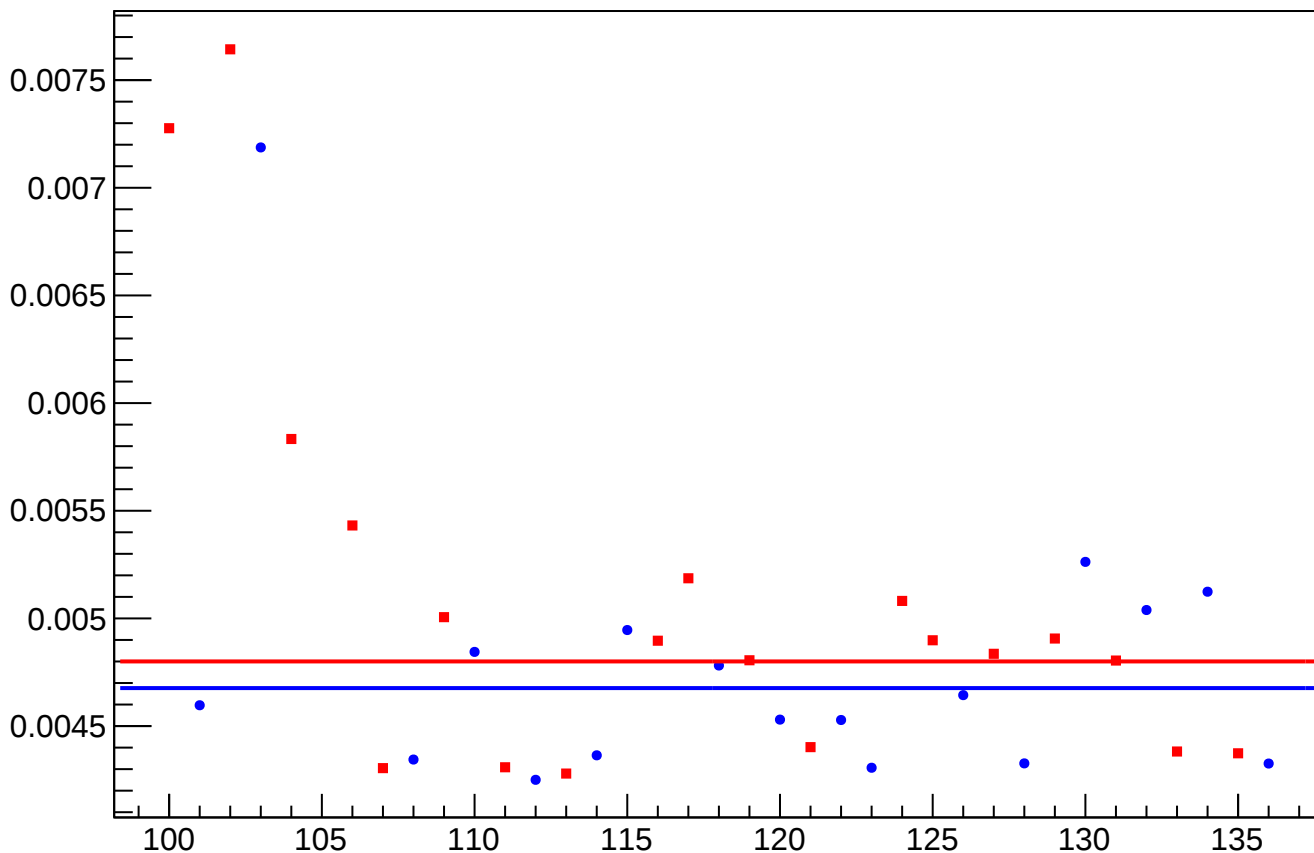
-0.224+/-0.000  $\chi^2/\text{NDF}$ : 74600073.9/16

Right Out: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 168121408.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.223+/-0.000  $\chi^2/\text{NDF}$ : 168121408.2/18

# yield\_bpm16Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 180780.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

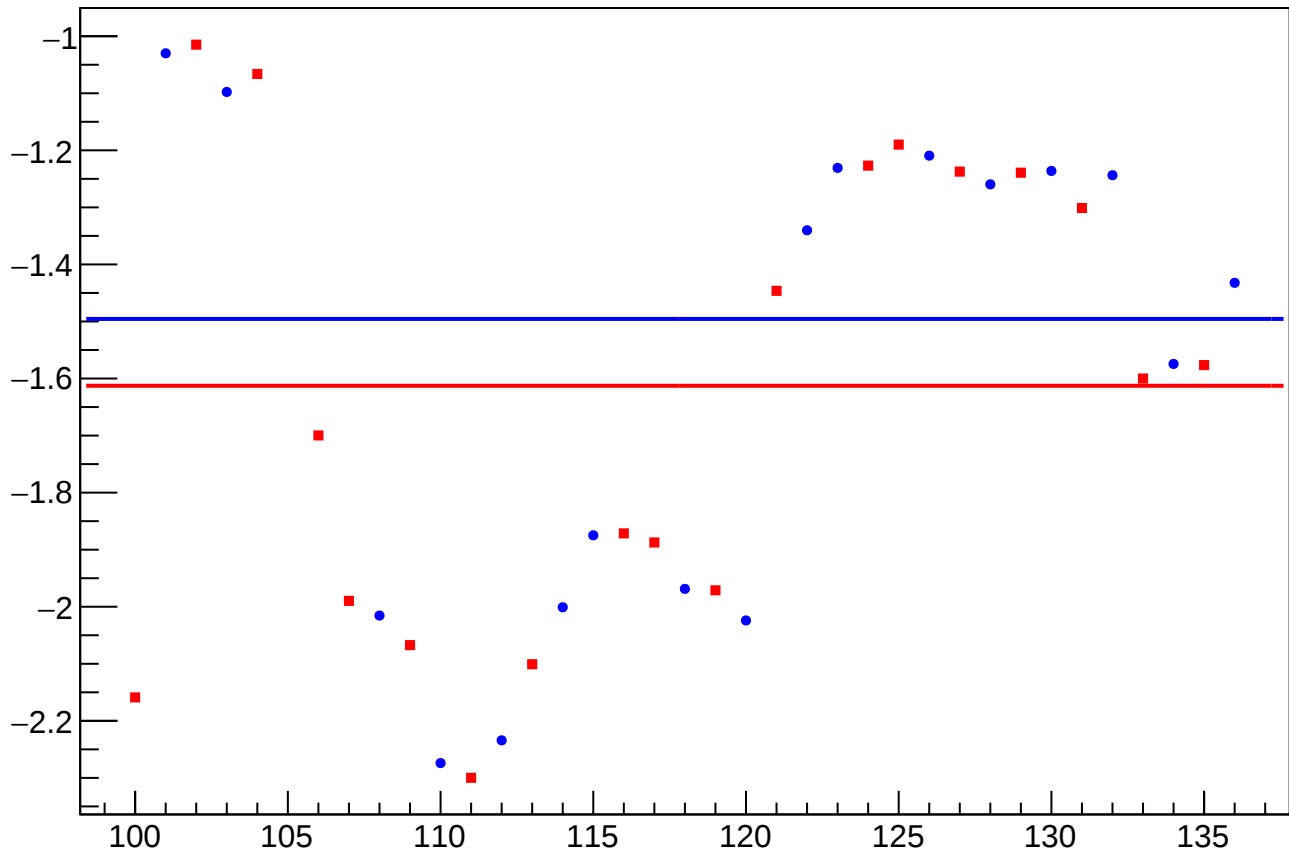
Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 245514.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.005+/-0.000  $\chi^2/\text{NDF}$ : 180780.8/16

0.005+/-0.000  $\chi^2/\text{NDF}$ : 245514.9/18

# yield\_bpm0l01X\_mean vs Slug



Right In: -1.496+/-0.000  $\chi^2/\text{NDF}$ : 22506050663.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

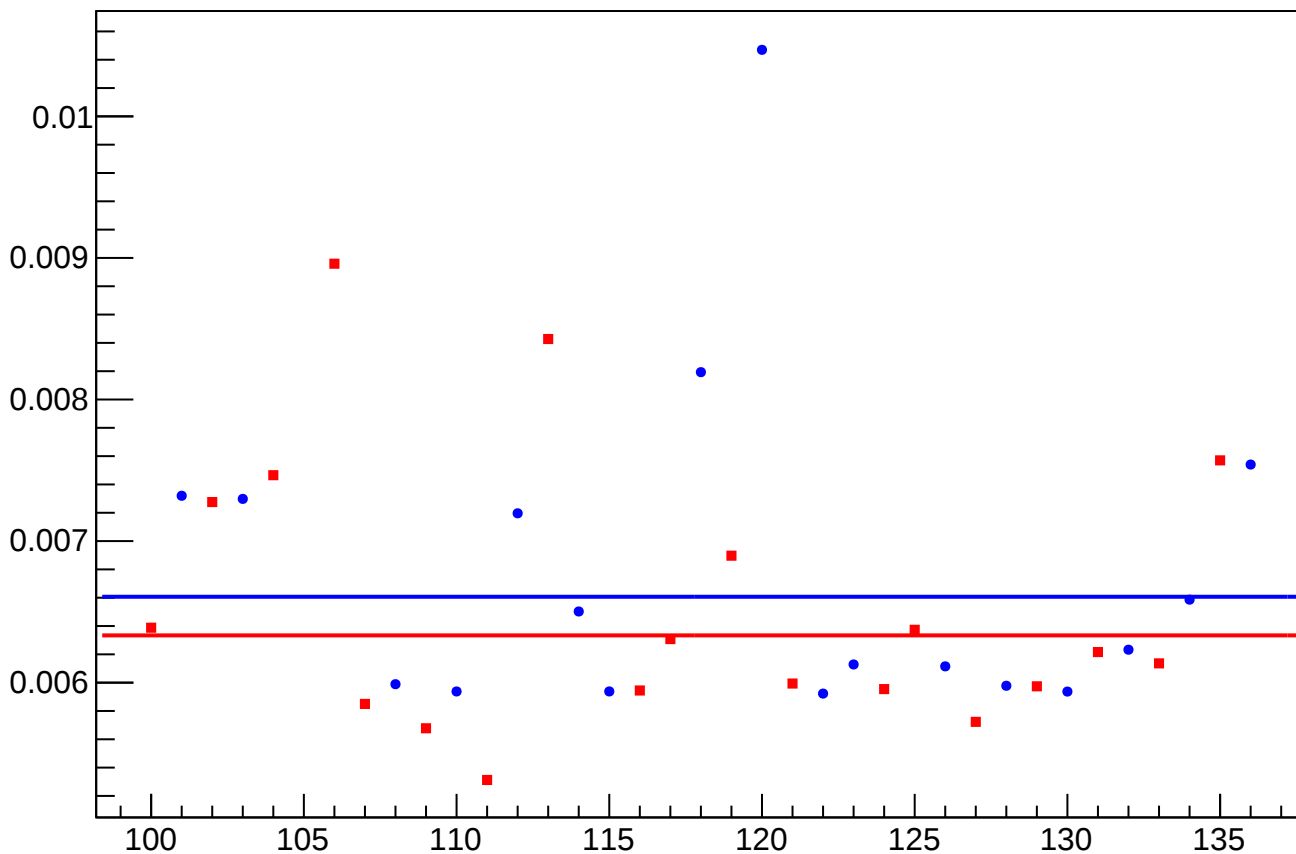
Right Out: -1.613+/-0.000  $\chi^2/\text{NDF}$ : 27876780075.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.496+/-0.000  $\chi^2/\text{NDF}$ : 22506050663.3/16

-1.613+/-0.000  $\chi^2/\text{NDF}$ : 27876780075.1/18

# yield\_bpm0l01X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 201323.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

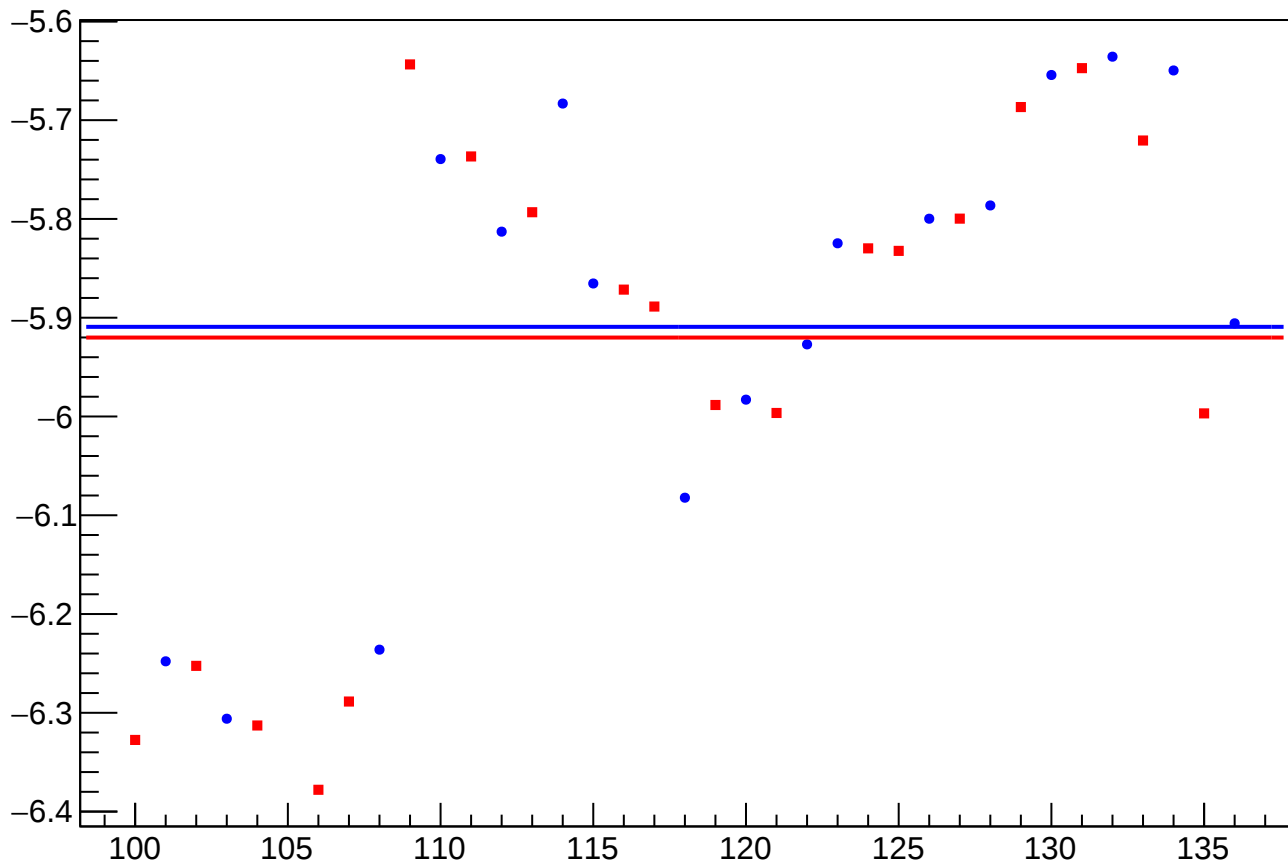
Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 221405.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.007+/-0.000  $\chi^2/\text{NDF}$ : 201323.2/16

0.006+/-0.000  $\chi^2/\text{NDF}$ : 221405.1/18

# yield\_bpm0l01Y\_mean vs Slug



Right In: -5.909+/-0.000  $\chi^2/\text{NDF}$ : 11125163629.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

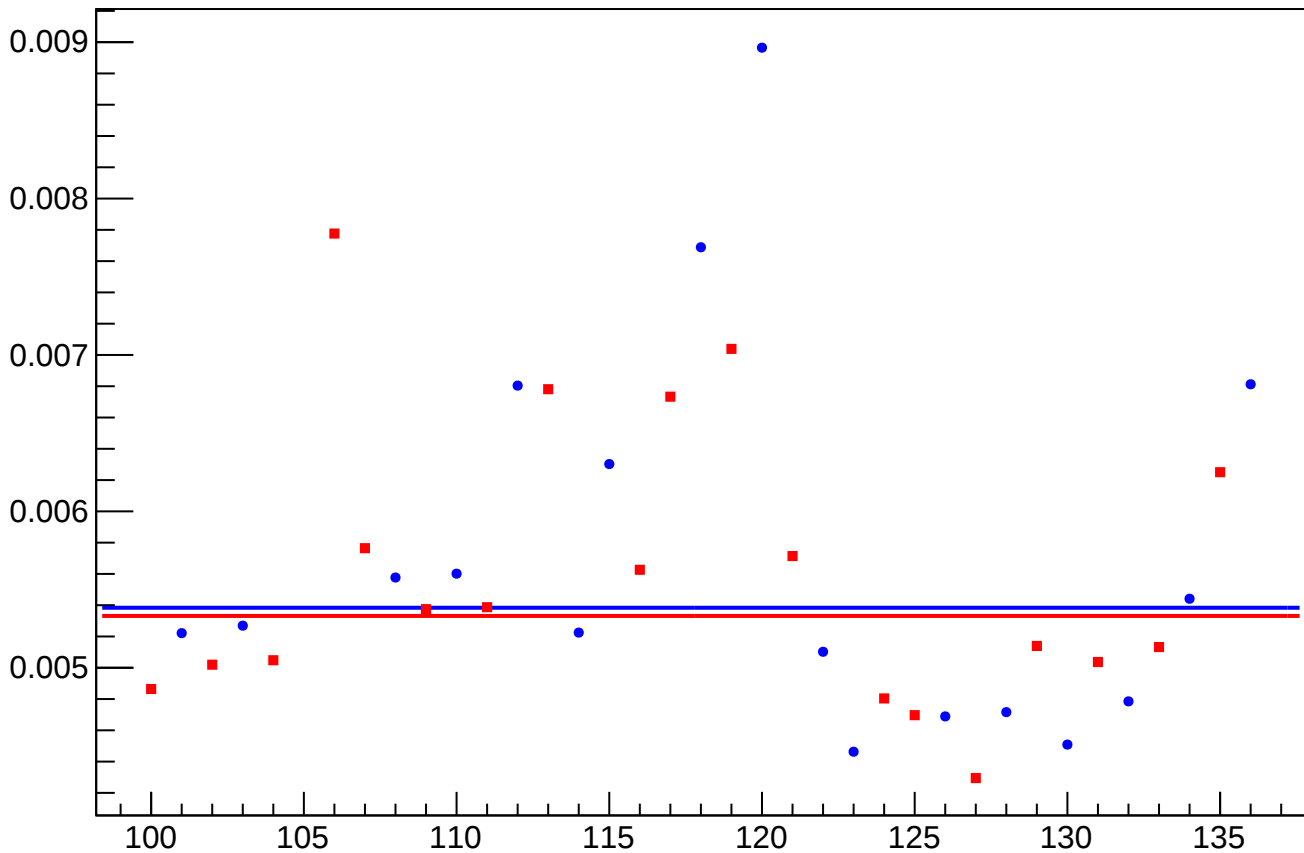
Right Out: -5.920+/-0.000  $\chi^2/\text{NDF}$ : 12784935112.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-5.909+/-0.000  $\chi^2/\text{NDF}$ : 11125163629.1/16

-5.920+/-0.000  $\chi^2/\text{NDF}$ : 12784935112.1/18

# yield\_bpm0l01Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 347627.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

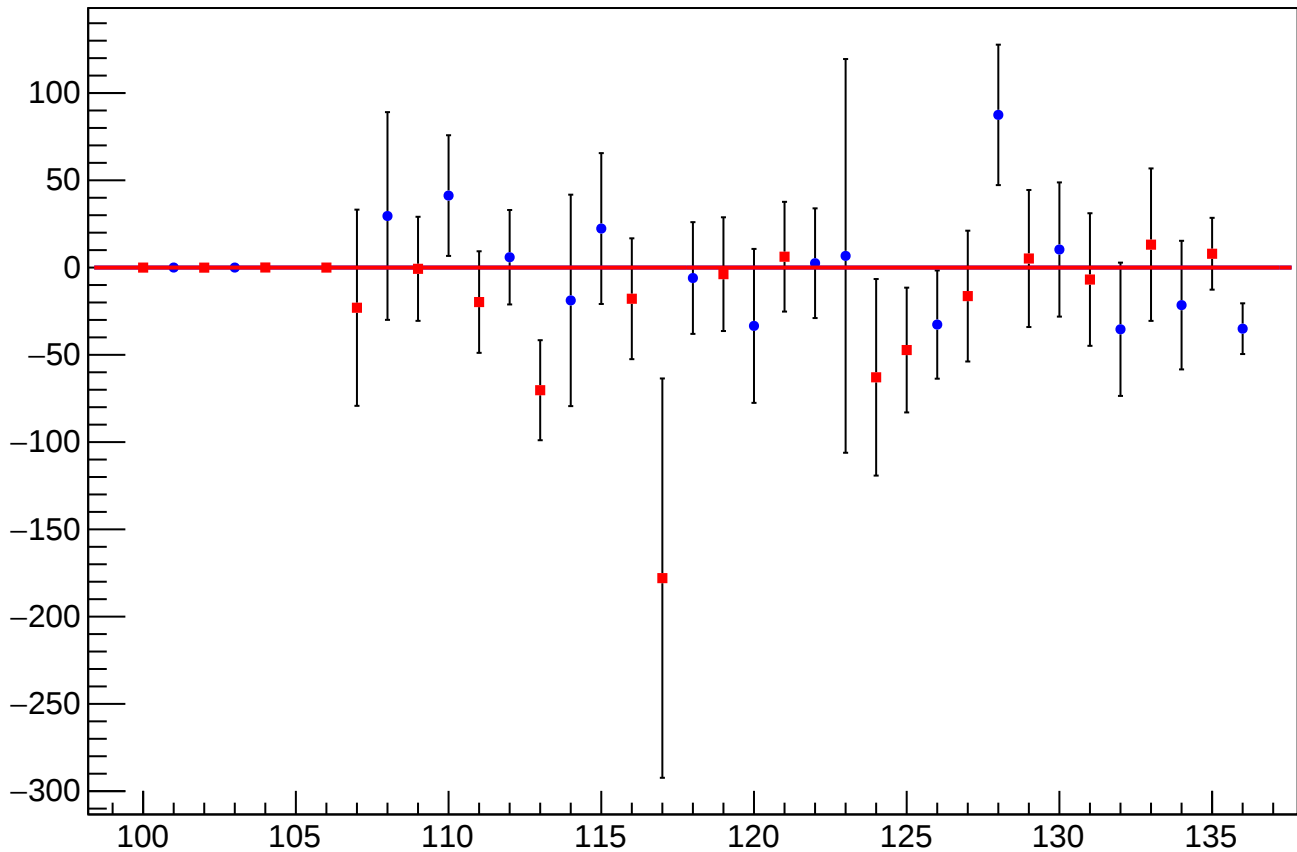
Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 240026.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.005+/-0.000  $\chi^2/\text{NDF}$ : 347627.8/16

0.005+/-0.000  $\chi^2/\text{NDF}$ : 240026.3/18

# diff\_cav4bX\_mean vs Slug



Right In: 0.013+/-0.017  $\chi^2/\text{NDF}$ : 15.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

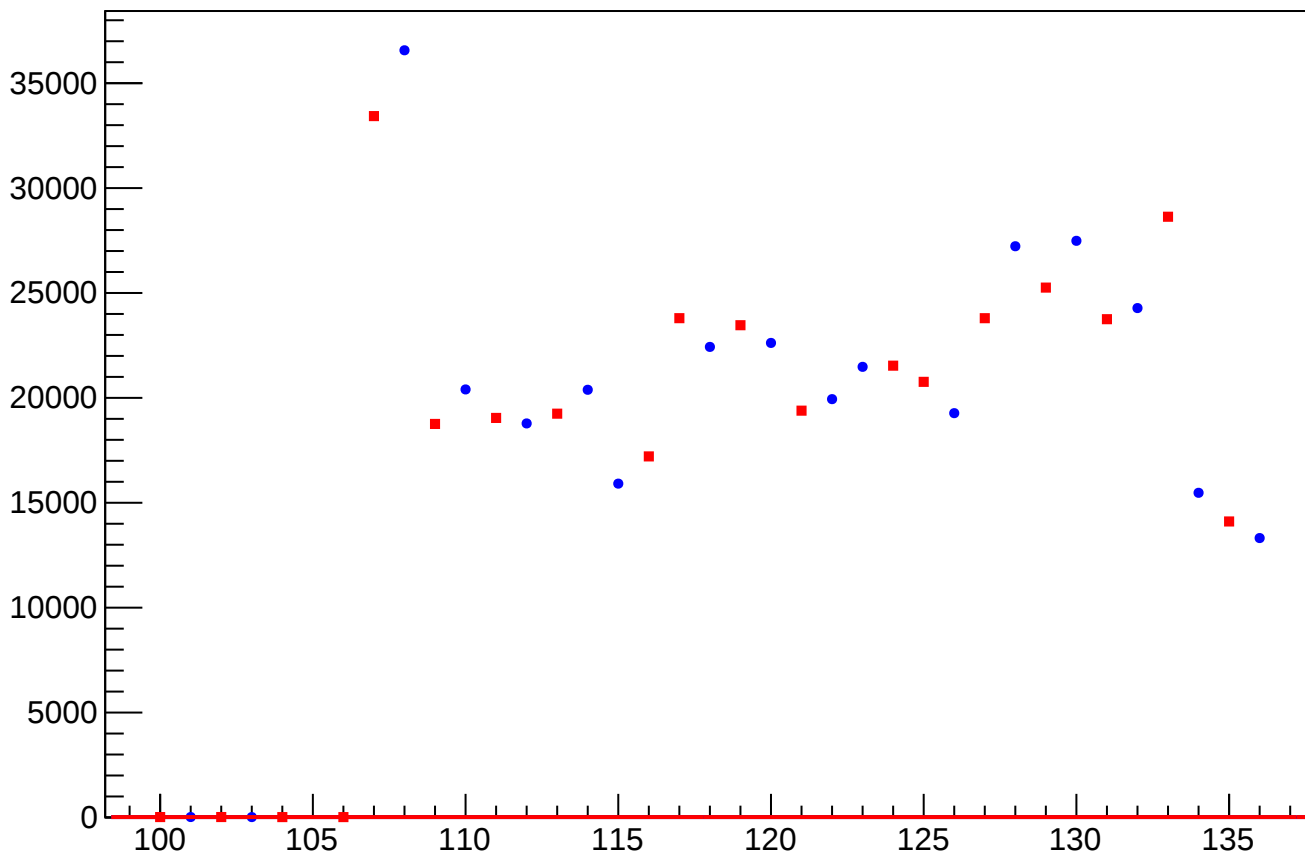
Right Out: 0.003+/-0.016  $\chi^2/\text{NDF}$ : 17.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.013+/-0.017  $\chi^2/\text{NDF}$ : 15.8/16

0.003+/-0.016  $\chi^2/\text{NDF}$ : 17.7/18

# diff\_cav4bX\_rms vs Slug



Right In: 18.641+/-0.012  $\chi^2/\text{NDF}$ : 10841561.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

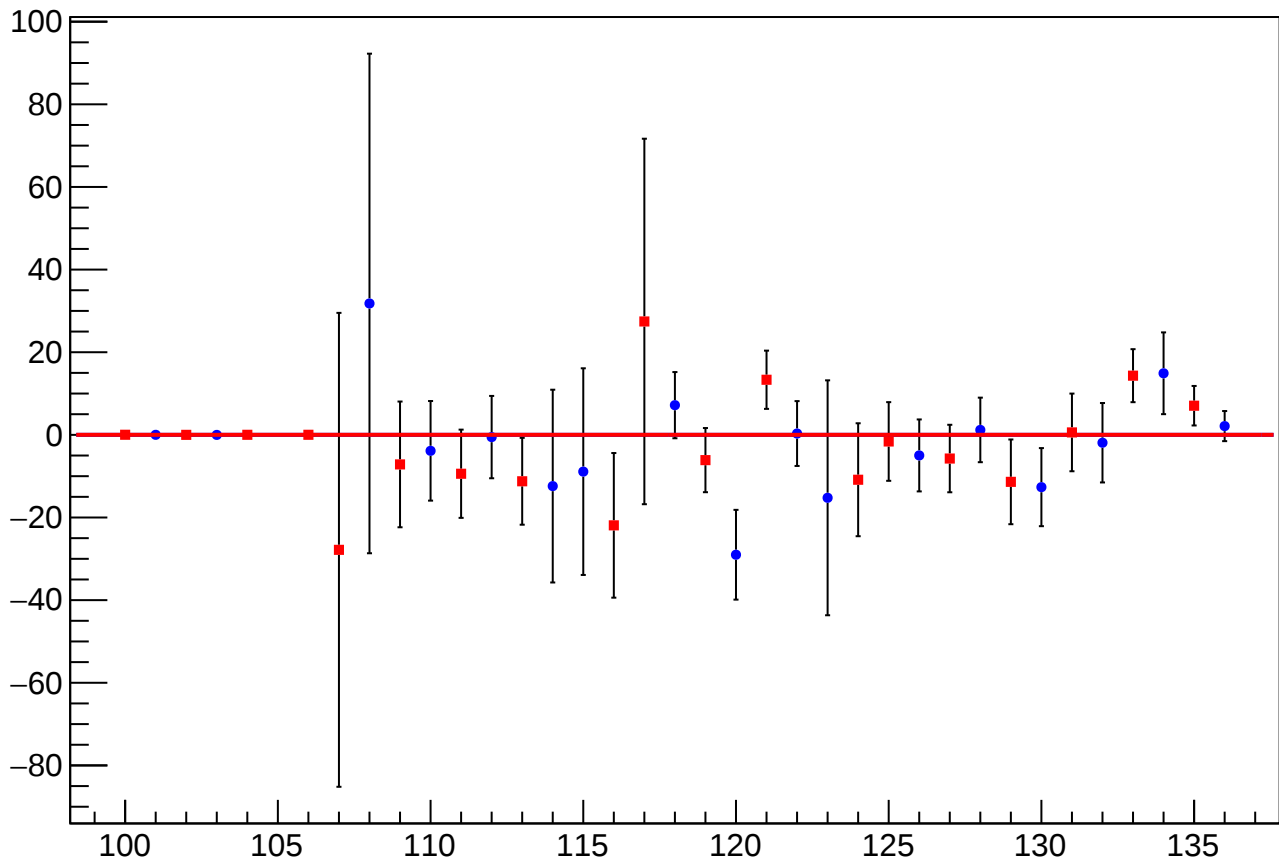
Right Out: 18.308+/-0.011  $\chi^2/\text{NDF}$ : 10813357.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

18.641+/-0.012  $\chi^2/\text{NDF}$ : 10841561.4/16

18.308+/-0.011  $\chi^2/\text{NDF}$ : 10813357.8/18

# diff\_cav4bY\_mean vs Slug



Right In: 0.001+/-0.009  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

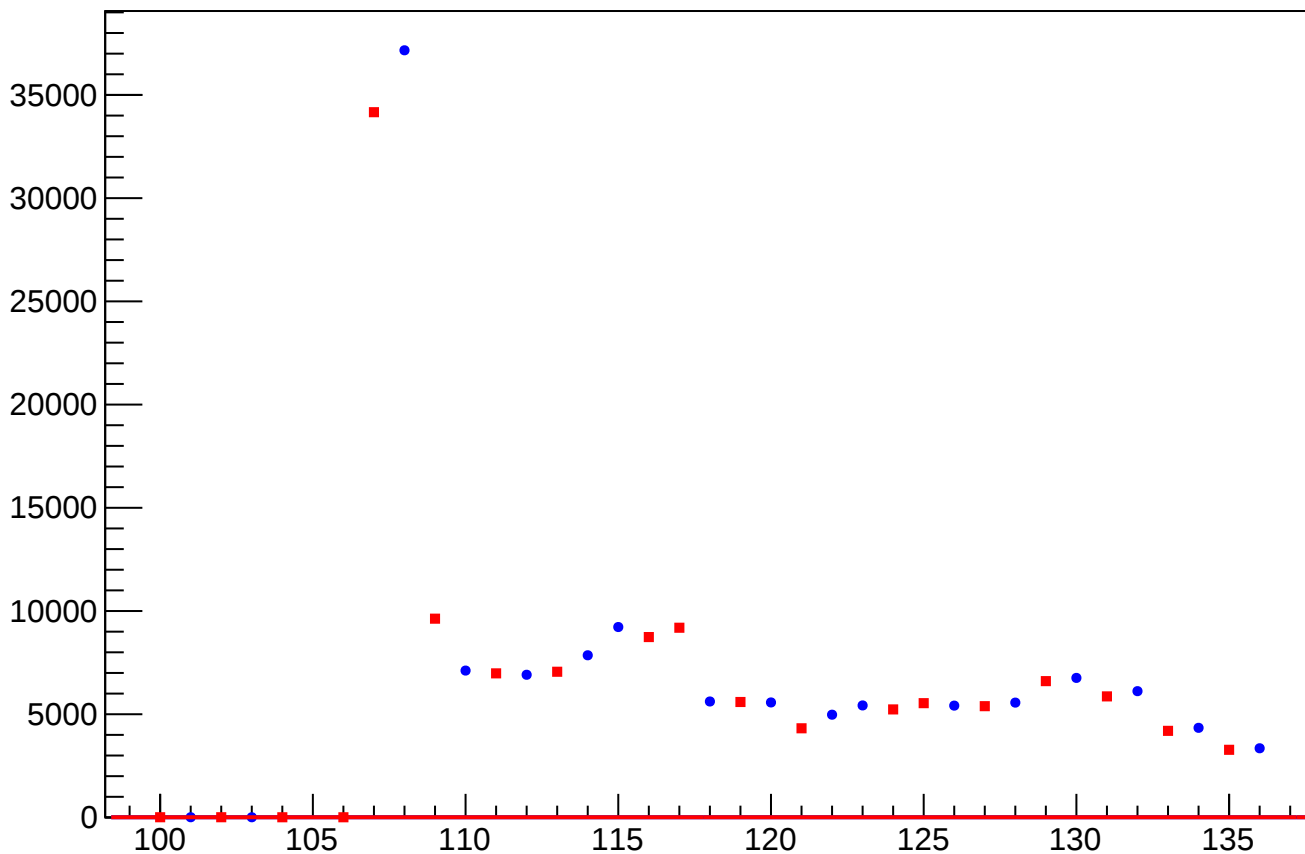
Right Out: 0.014+/-0.009  $\chi^2/\text{NDF}$ : 18.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.001+/-0.009  $\chi^2/\text{NDF}$ : 14.9/16

0.014+/-0.009  $\chi^2/\text{NDF}$ : 18.8/18

diff\_cav4bY\_rms vs Slug



Right In: 9.938+/-0.007  $\chi^2/\text{NDF}$ : 10973577.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

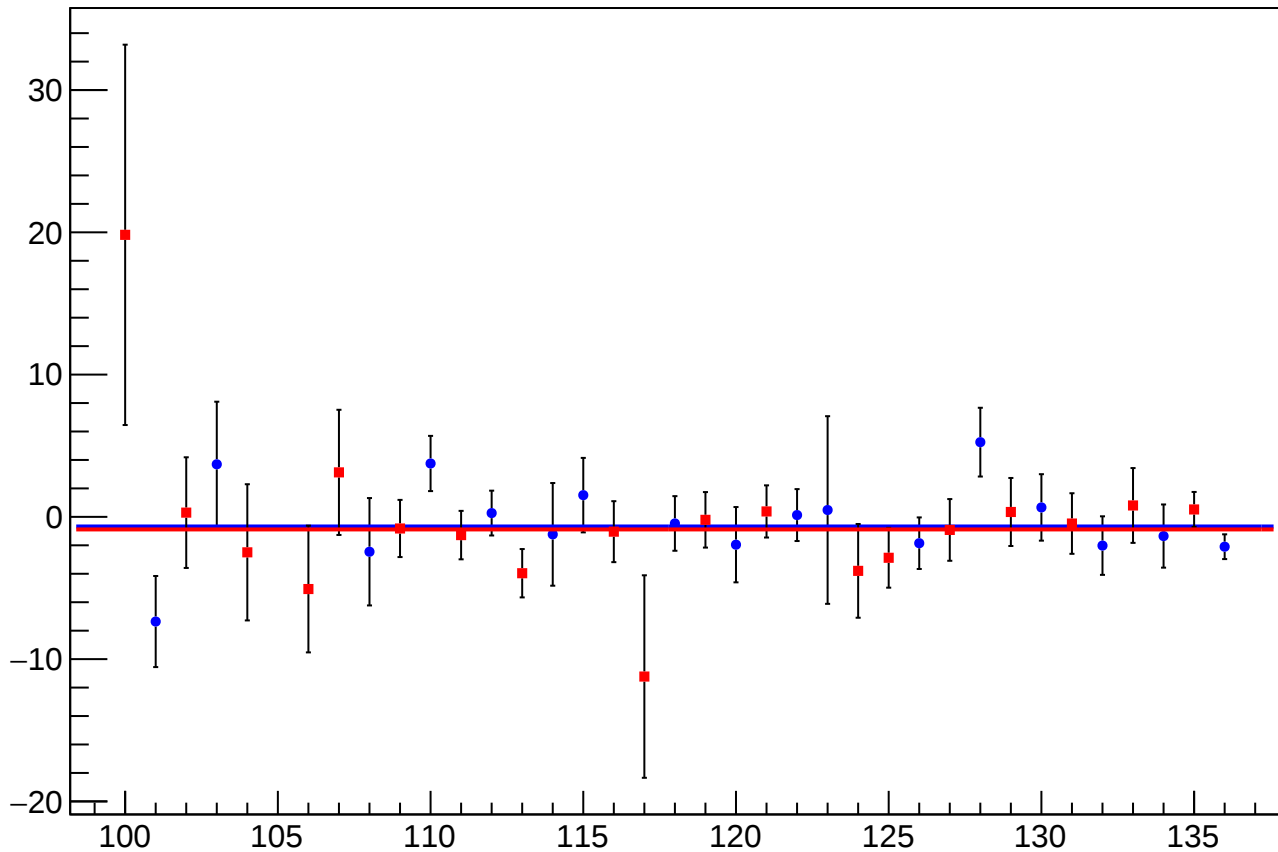
Right Out: 9.850+/-0.006  $\chi^2/\text{NDF}$ : 10863388.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.938+/-0.007  $\chi^2/\text{NDF}$ : 10973577.1/16

9.850+/-0.006  $\chi^2/\text{NDF}$ : 10863388.2/18

# diff\_cav4cX\_mean vs Slug



Right In:  $-0.677 \pm 0.484$   $\chi^2/\text{NDF}$ : 22.3/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

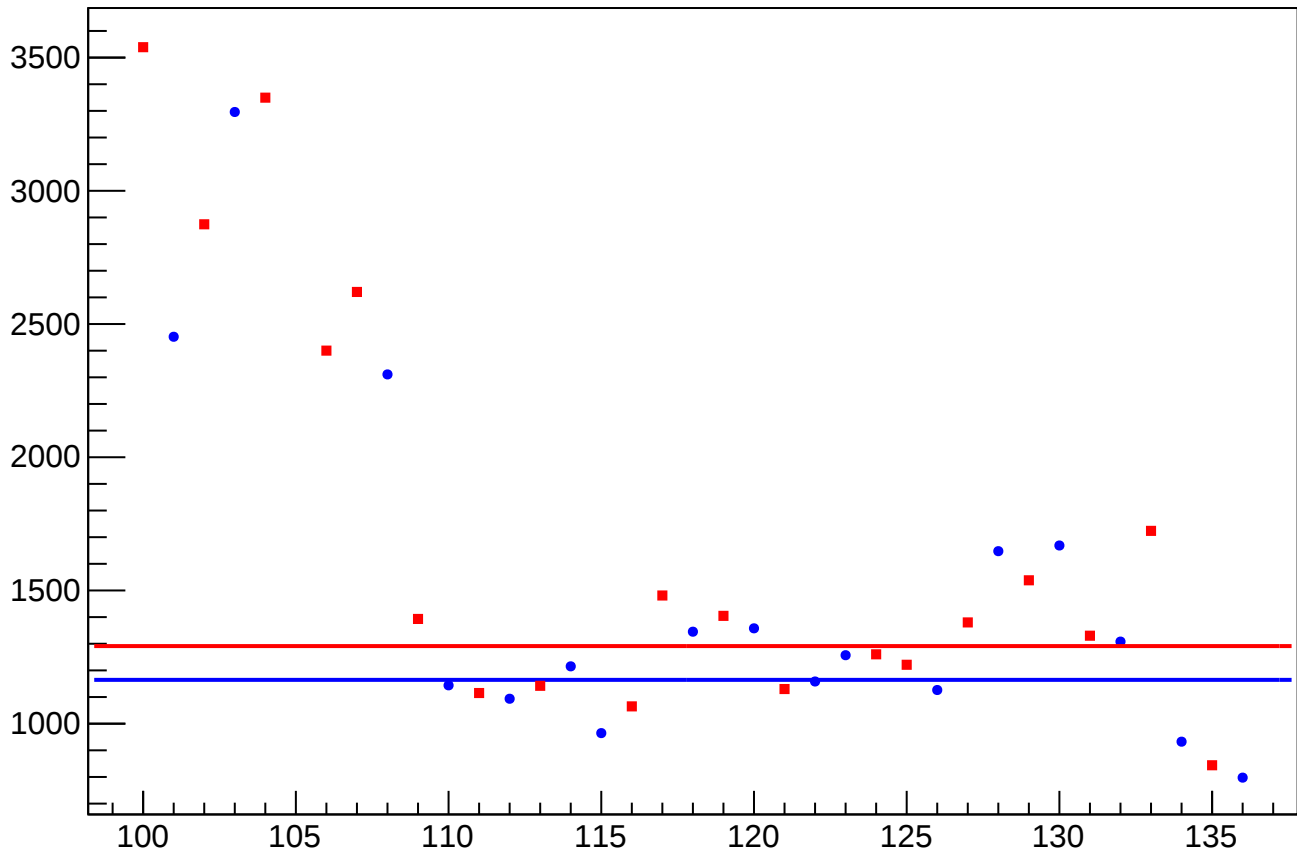
Right Out:  $-0.884 \pm 0.521$   $\chi^2/\text{NDF}$ : 14.1/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.677 \pm 0.484$   $\chi^2/\text{NDF}$ : 22.3/16

$-0.884 \pm 0.521$   $\chi^2/\text{NDF}$ : 14.1/18

# diff\_cav4cX\_rms vs Slug



Right In: 1164.459 $\pm$ 0.342  $\chi^2$ /NDF: 1584212.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

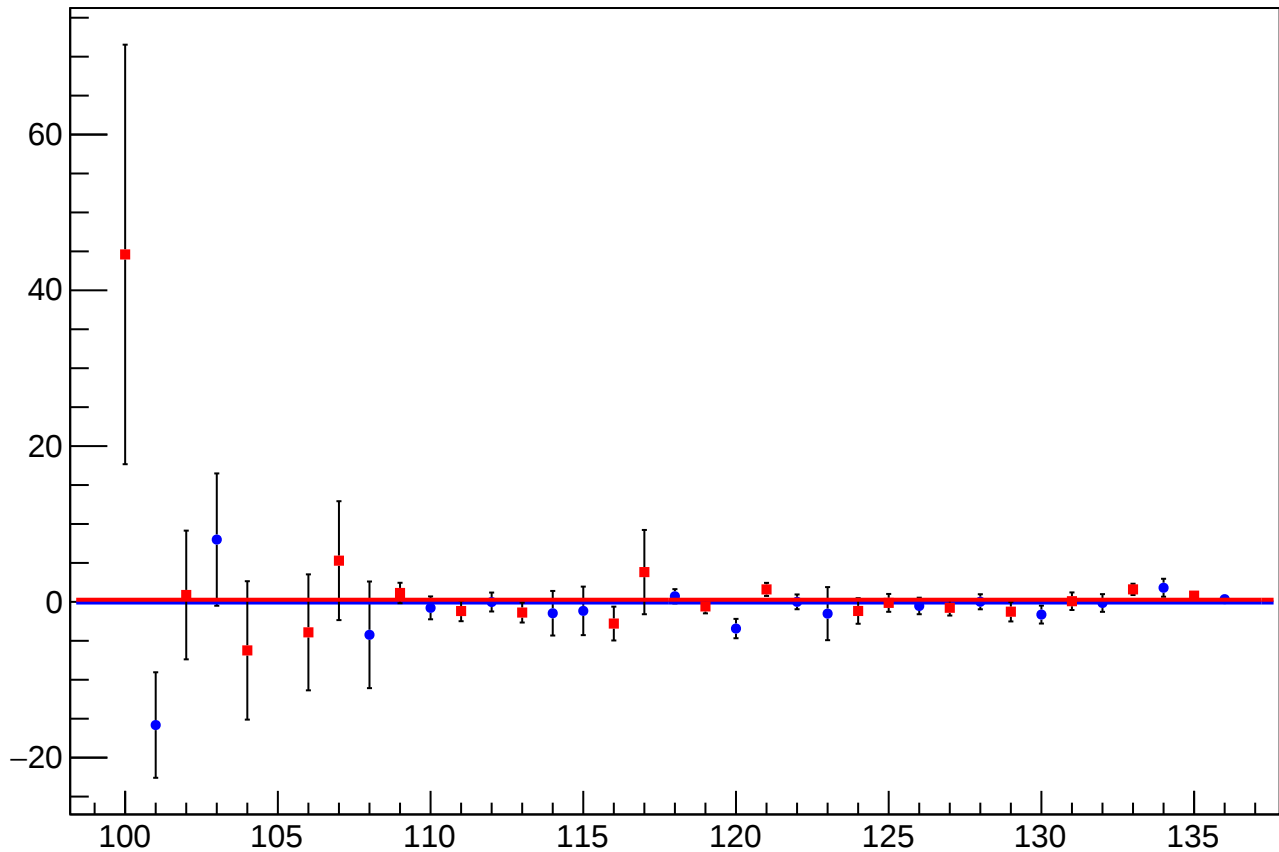
Right Out: 1291.253 $\pm$ 0.368  $\chi^2$ /NDF: 1498166.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1164.459 $\pm$ 0.342  $\chi^2$ /NDF: 1584212.9/16

1291.253 $\pm$ 0.368  $\chi^2$ /NDF: 1498166.0/18

# diff\_cav4cY\_mean vs Slug



Right In: -0.086+/-0.270  $\chi^2$ /NDF: 21.1/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

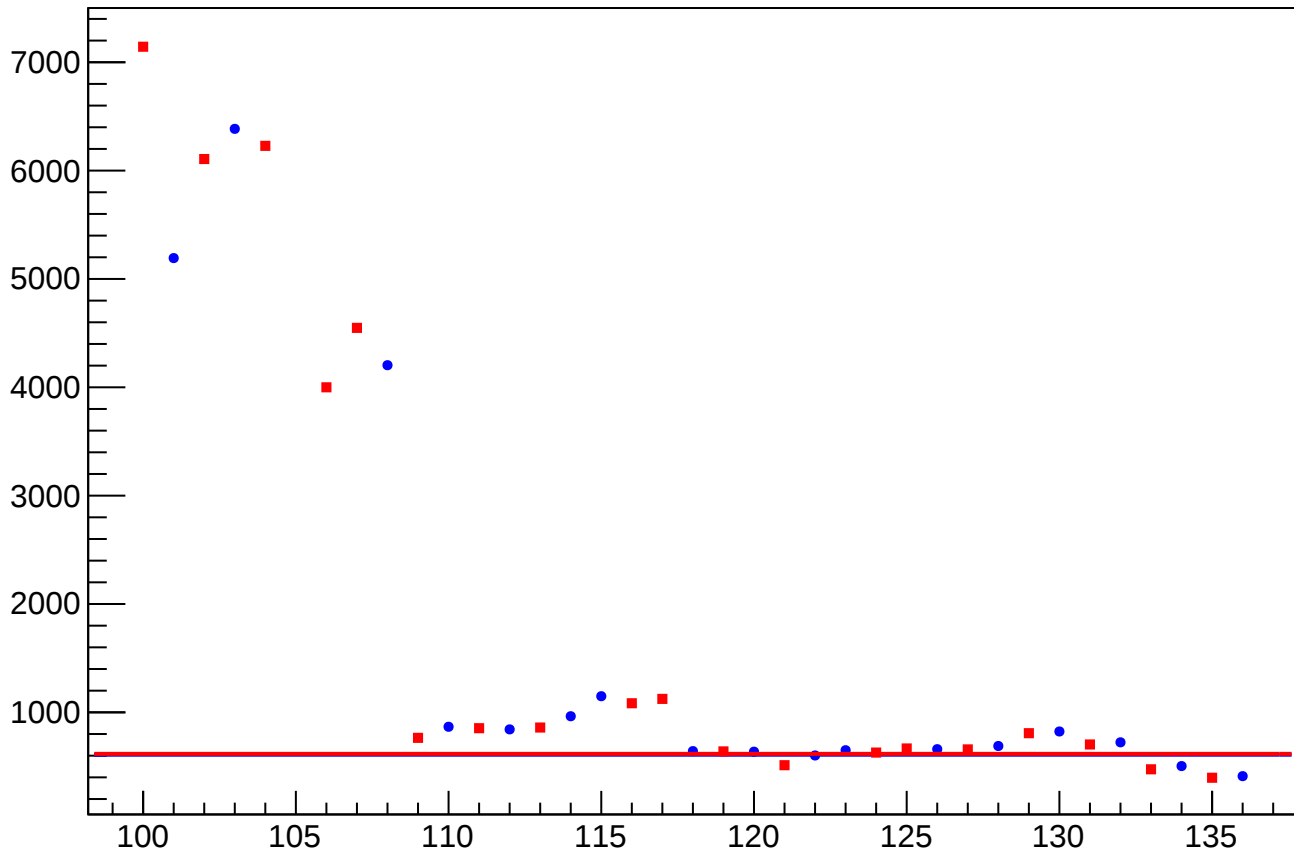
Right Out: 0.275+/-0.275  $\chi^2$ /NDF: 20.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.086+/-0.270  $\chi^2$ /NDF: 21.1/16

0.275+/-0.275  $\chi^2$ /NDF: 20.9/18

# diff\_cav4cY\_rms vs Slug



Right In: 609.016+/-0.191  $\chi^2/\text{NDF}$ : 3139231.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

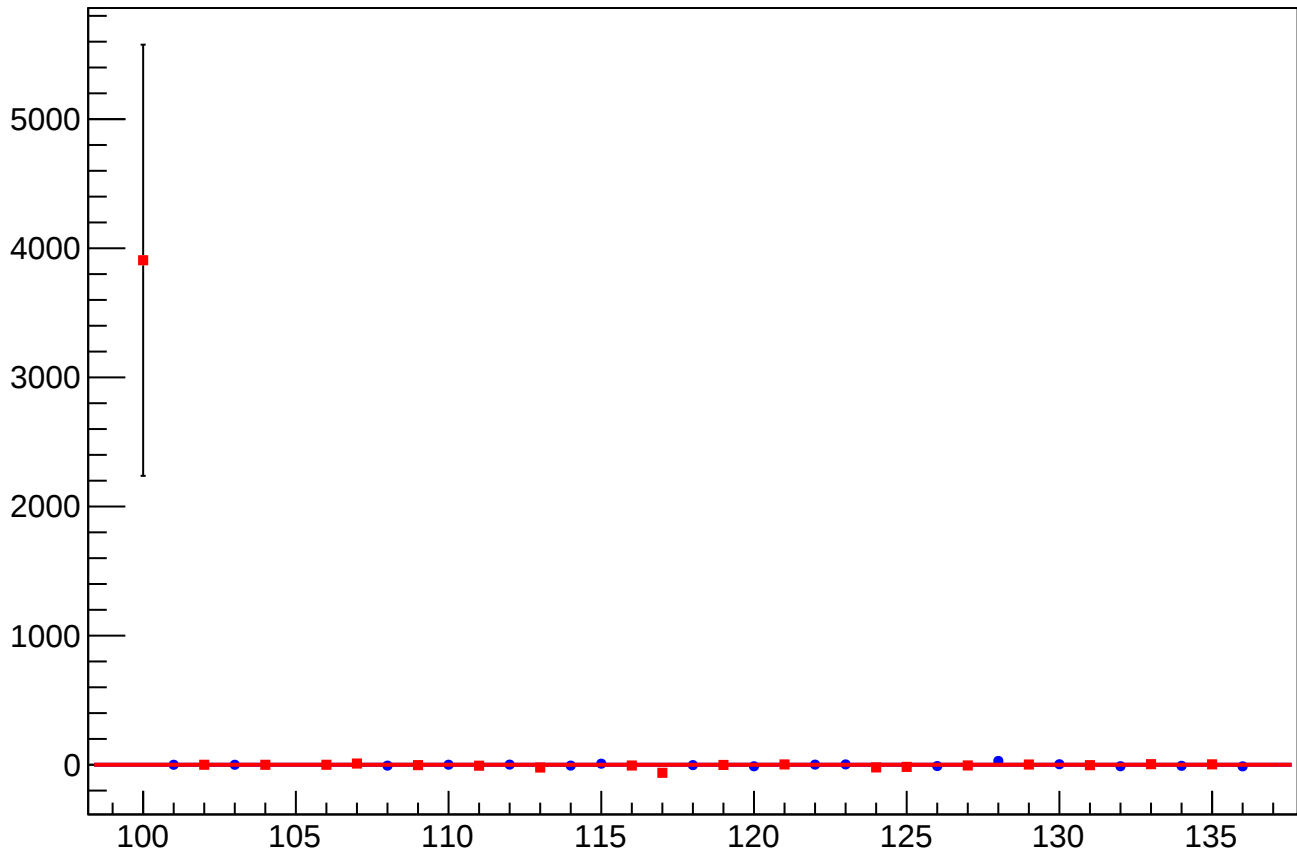
Right Out: 616.904+/-0.194  $\chi^2/\text{NDF}$ : 3481284.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

609.016+/-0.191  $\chi^2/\text{NDF}$ : 3139231.5/16

616.904+/-0.194  $\chi^2/\text{NDF}$ : 3481284.7/18

# diff\_cav4dX\_mean vs Slug



Right In: -0.022+/-0.021  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

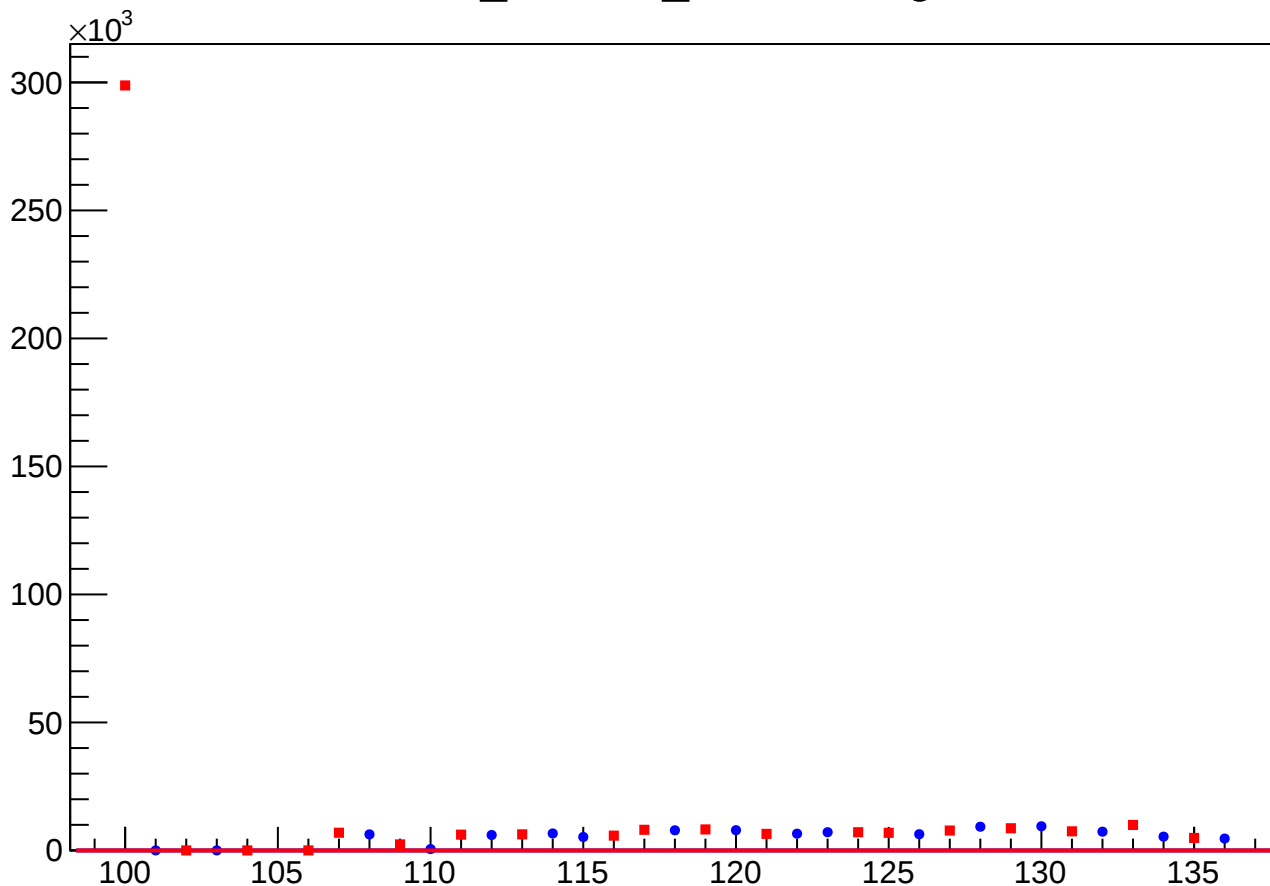
Right Out: -0.027+/-0.020  $\chi^2/\text{NDF}$ : 19.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.022+/-0.021  $\chi^2/\text{NDF}$ : 15.3/16

-0.027+/-0.020  $\chi^2/\text{NDF}$ : 19.8/18

# diff\_cav4dX\_rms vs Slug



Right In: 17.337 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 10359409.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

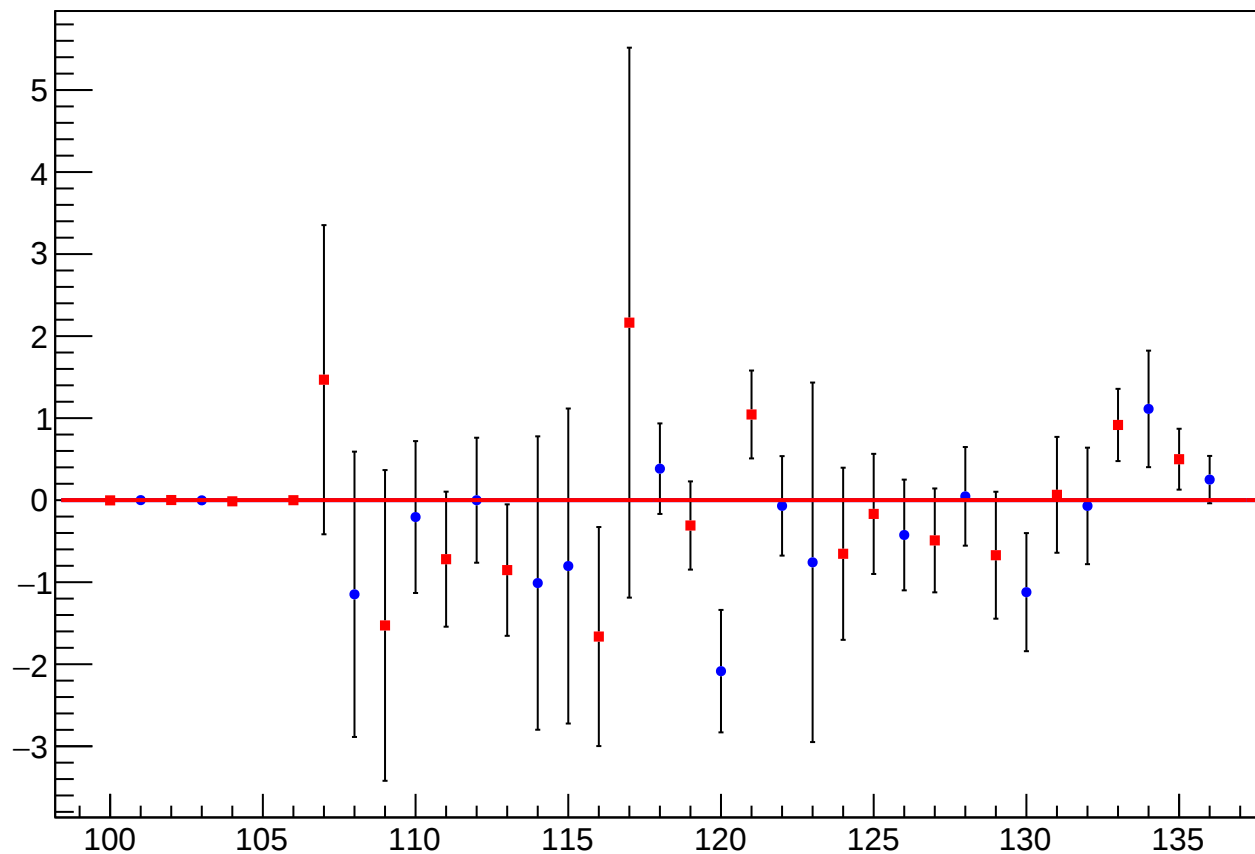
Right Out: 17.254 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 10524989.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

17.337 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 10359409.4/16

17.254 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 10524989.7/18

# diff\_cav4dY\_mean vs Slug



Right In: 0.000+/-0.002  $\chi^2/\text{NDF}$ : 15.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

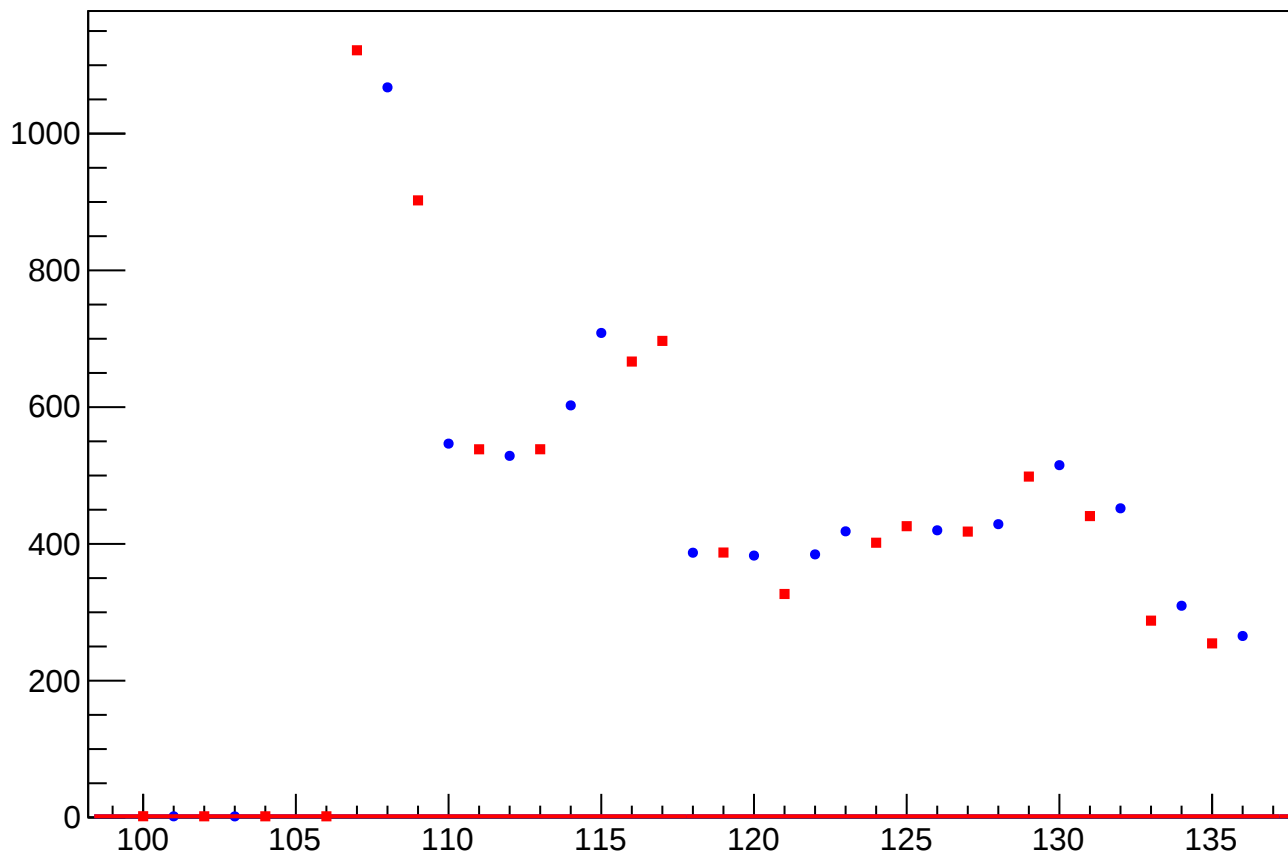
Right Out: 0.001+/-0.002  $\chi^2/\text{NDF}$ : 18.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.002  $\chi^2/\text{NDF}$ : 15.6/16

0.001+/-0.002  $\chi^2/\text{NDF}$ : 18.2/18

# diff\_cav4dY\_rms vs Slug



Right In: 1.698+/-0.001  $\chi^2/\text{NDF}$ : 10911617.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

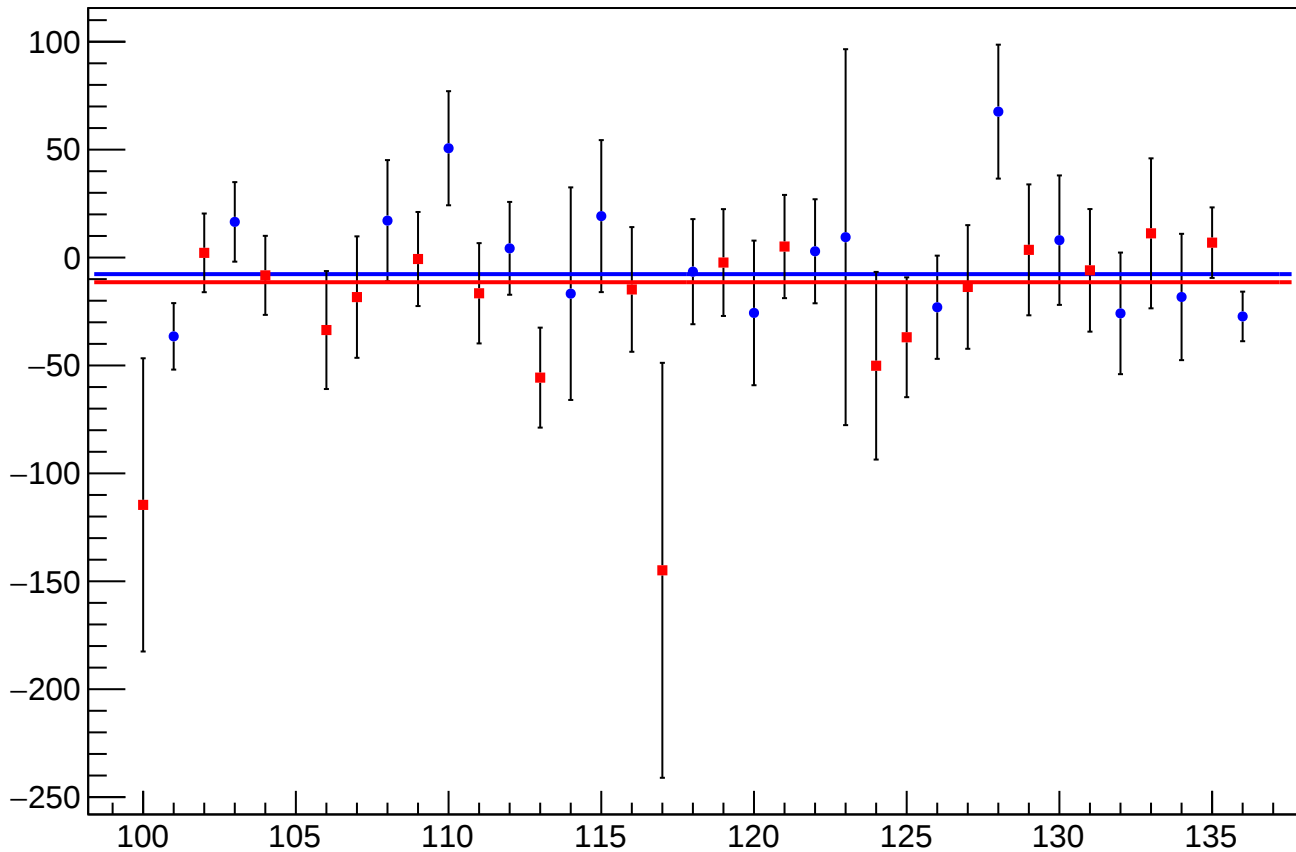
Right Out: 1.726+/-0.001  $\chi^2/\text{NDF}$ : 10450122.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.698+/-0.001  $\chi^2/\text{NDF}$ : 10911617.0/16

1.726+/-0.001  $\chi^2/\text{NDF}$ : 10450122.8/18

# diff\_bpm4aX\_mean vs Slug



Right In:  $-7.683 \pm 5.627$   $\chi^2/\text{NDF}$ : 22.4/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

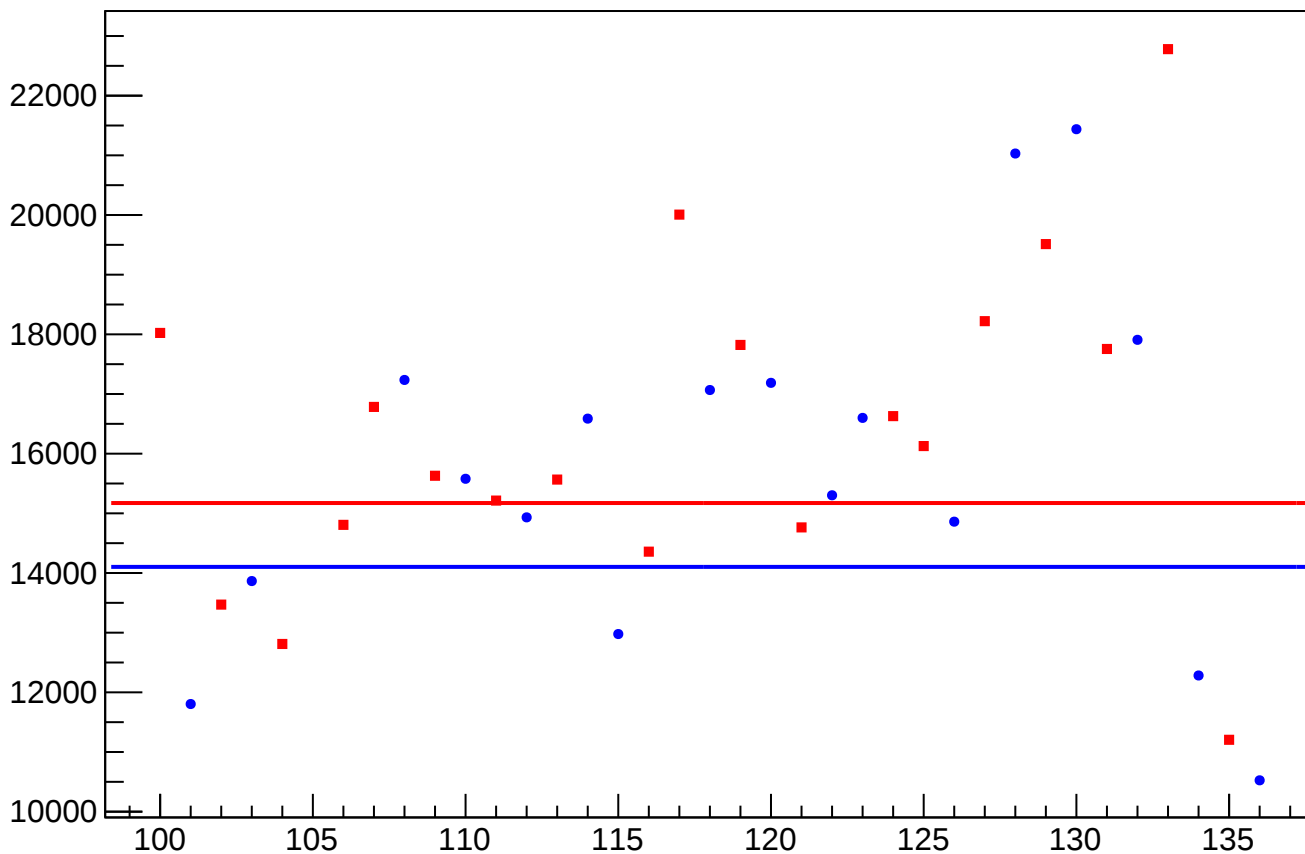
Right Out:  $-11.427 \pm 5.846$   $\chi^2/\text{NDF}$ : 13.7/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-7.683 \pm 5.627$   $\chi^2/\text{NDF}$ : 22.4/16

$-11.427 \pm 5.846$   $\chi^2/\text{NDF}$ : 13.7/18

# diff\_bpm4aX\_rms vs Slug



Right In: 14102.522+/-3.979  $\chi^2/\text{NDF}$ : 598934.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

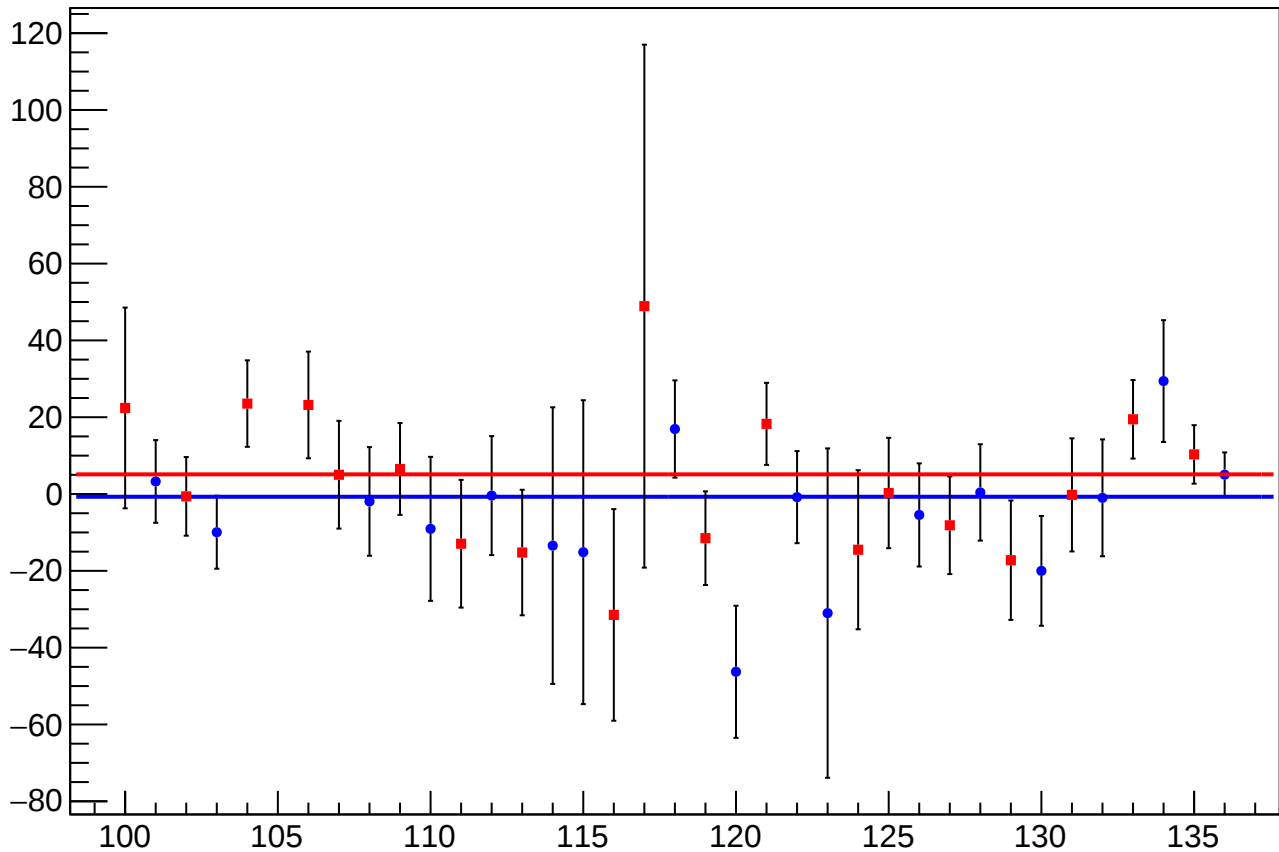
Right Out: 15172.814+/-4.134  $\chi^2/\text{NDF}$ : 391294.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14102.522+/-3.979  $\chi^2/\text{NDF}$ : 598934.8/16

15172.814+/-4.134  $\chi^2/\text{NDF}$ : 391294.7/18

# diff\_bpm4aY\_mean vs Slug



Right In:  $-0.708 \pm 3.084$   $\chi^2/\text{NDF}$ : 17.6/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

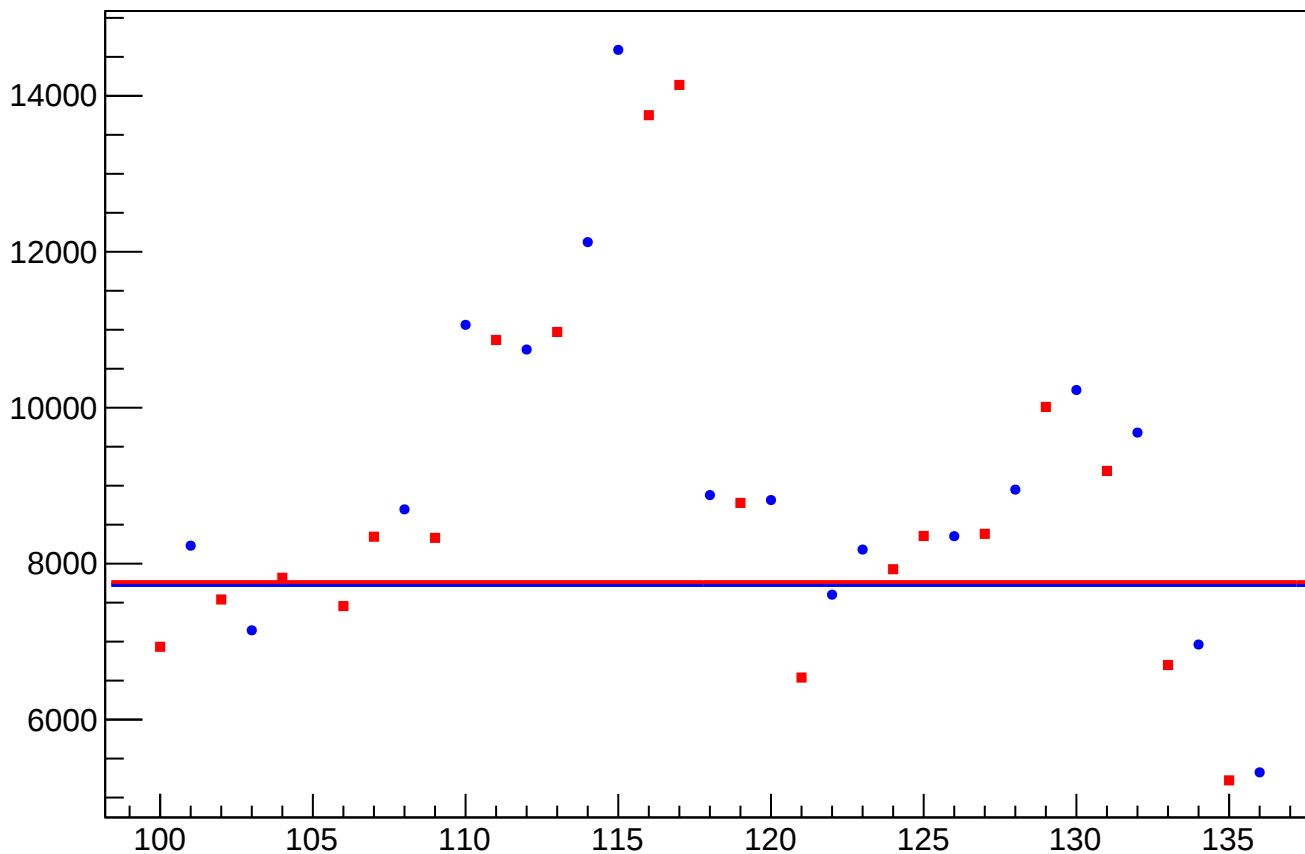
Right Out:  $5.125 \pm 3.023$   $\chi^2/\text{NDF}$ : 20.1/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.708 \pm 3.084$   $\chi^2/\text{NDF}$ : 17.6/16

$5.125 \pm 3.023$   $\chi^2/\text{NDF}$ : 20.1/18

# diff\_bpm4aY\_rms vs Slug



Right In: 7726.745 $\pm$ 2.180  $\chi^2$ /NDF: 742512.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

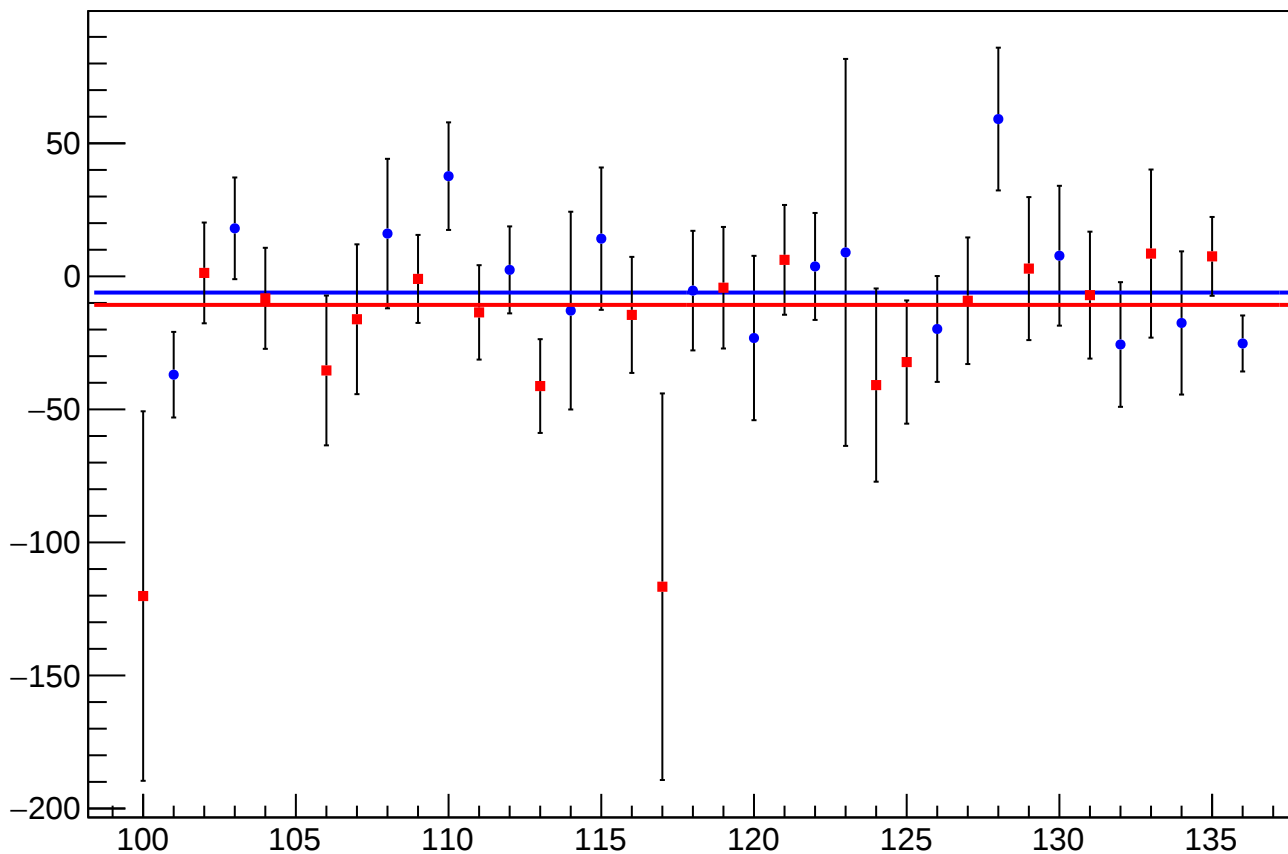
Right Out: 7763.393 $\pm$ 2.137  $\chi^2$ /NDF: 624322.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7726.745 $\pm$ 2.180  $\chi^2$ /NDF: 742512.8/16

7763.393 $\pm$ 2.137  $\chi^2$ /NDF: 624322.0/18

# diff\_bpm4eX\_mean vs Slug



Right In: -6.092+/-5.034  $\chi^2$ /NDF: 22.9/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

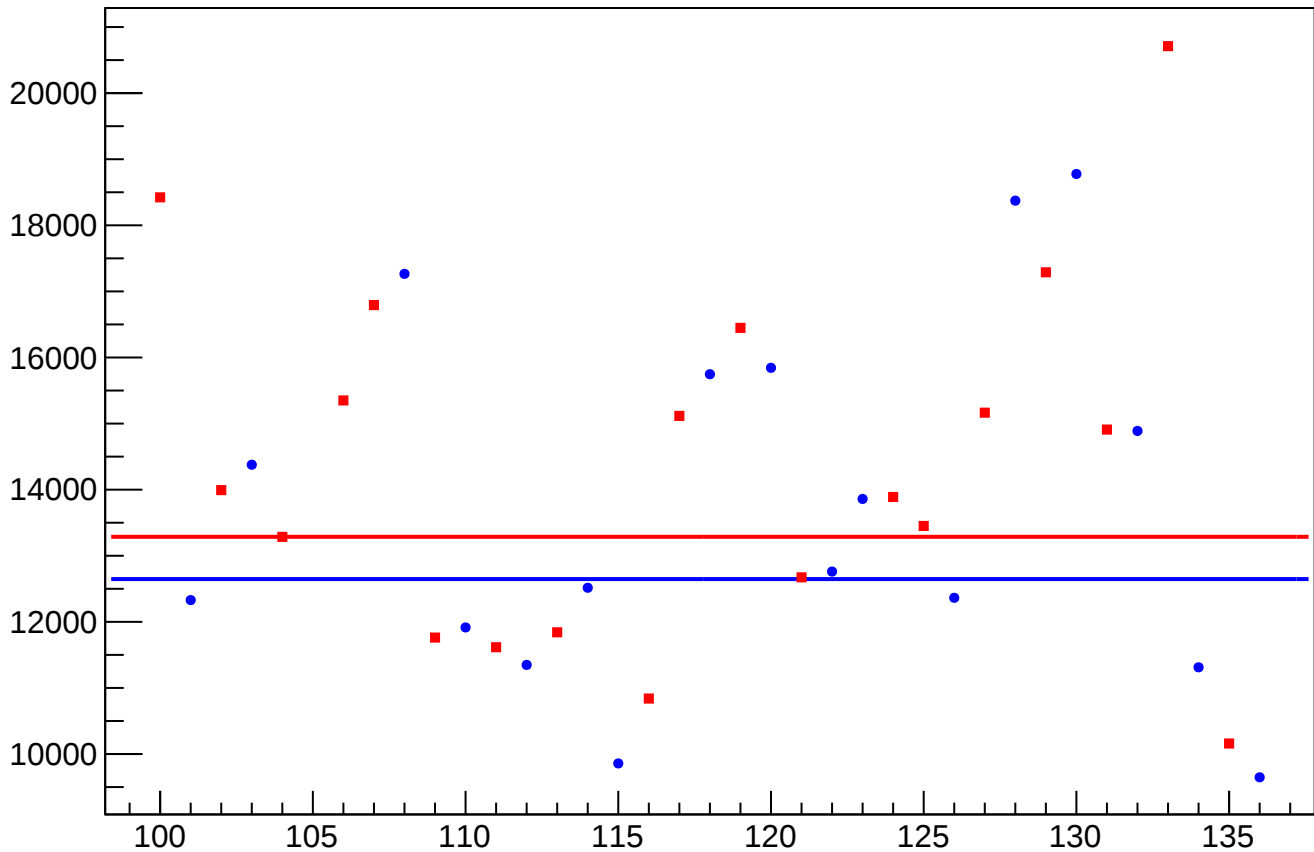
Right Out: -10.727+/-5.130  $\chi^2$ /NDF: 13.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-6.092+/-5.034  $\chi^2$ /NDF: 22.9/16

-10.727+/-5.130  $\chi^2$ /NDF: 13.7/18

# diff\_bpm4eX\_rms vs Slug



Right In: 12647.257+/-3.559  $\chi^2/\text{NDF}$ : 554320.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

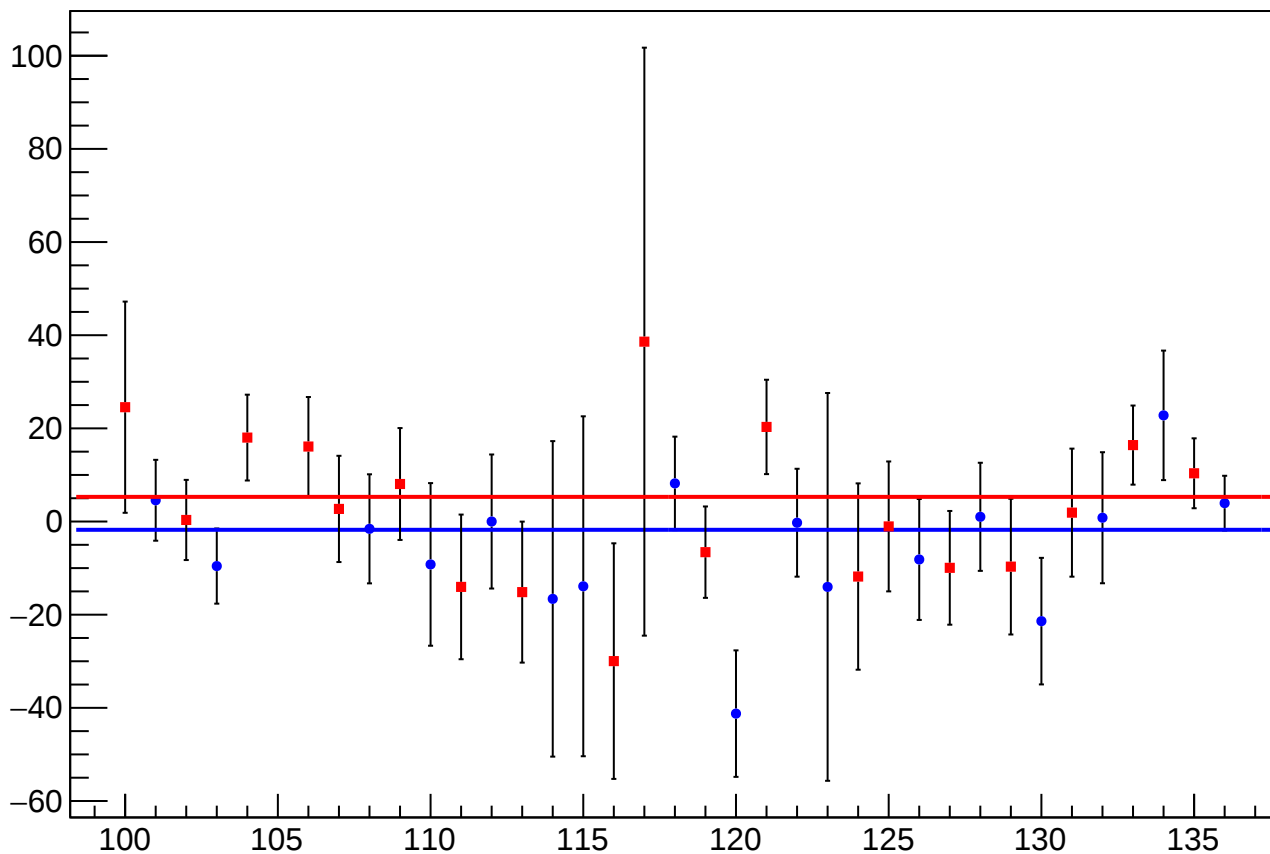
12647.257+/-3.559  $\chi^2/\text{NDF}$ : 554320.4/16

Right Out: 13286.946+/-3.628  $\chi^2/\text{NDF}$ : 436525.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13286.946+/-3.628  $\chi^2/\text{NDF}$ : 436525.2/18

# diff\_bpm4eY\_mean vs Slug



Right In: -1.777+/-2.806  $\chi^2/\text{NDF}$ : 18.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

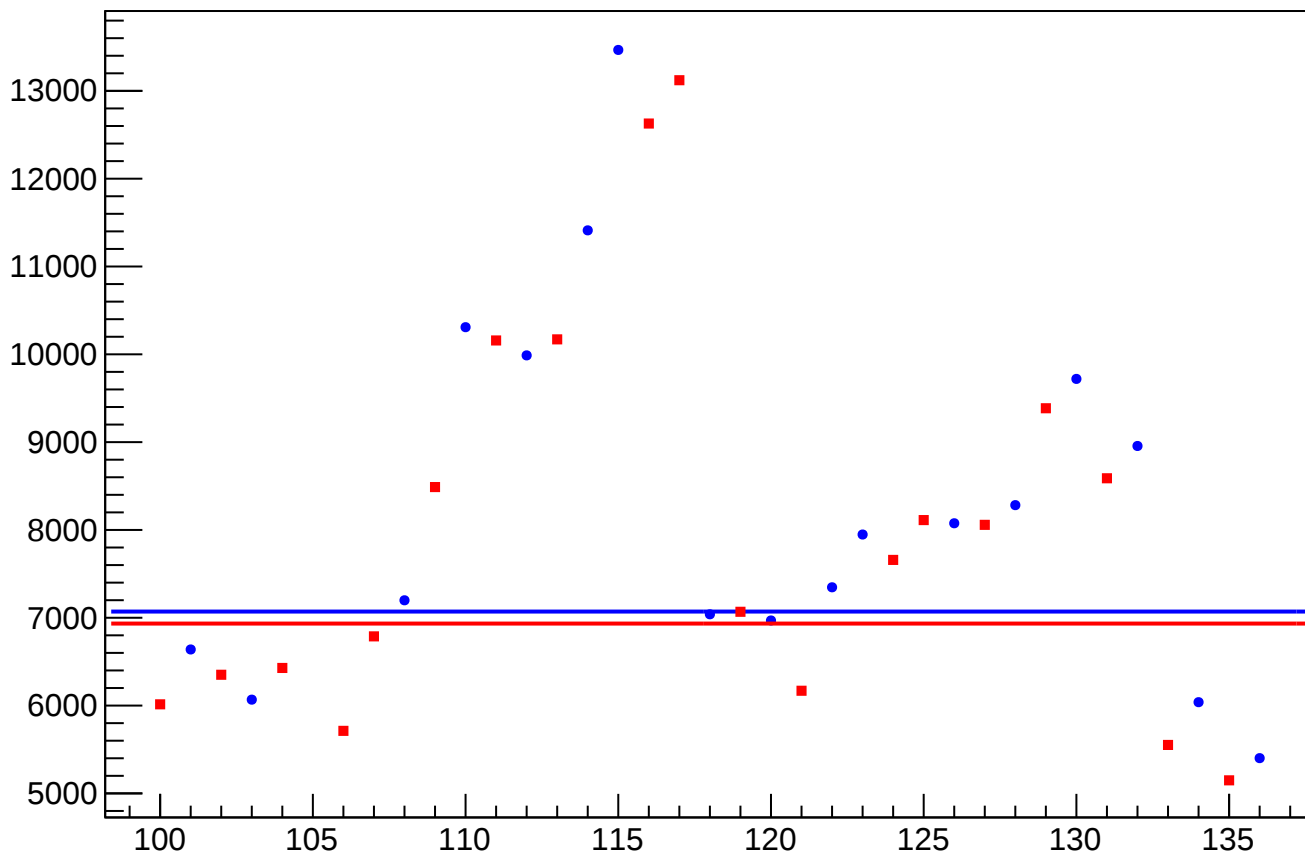
Right Out: 5.294+/-2.700  $\chi^2/\text{NDF}$ : 19.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.777+/-2.806  $\chi^2/\text{NDF}$ : 18.0/16

5.294+/-2.700  $\chi^2/\text{NDF}$ : 19.1/18

# diff\_bpm4eY\_rms vs Slug



Right In: 7070.672 $\pm$ 1.984  $\chi^2$ /NDF: 601692.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

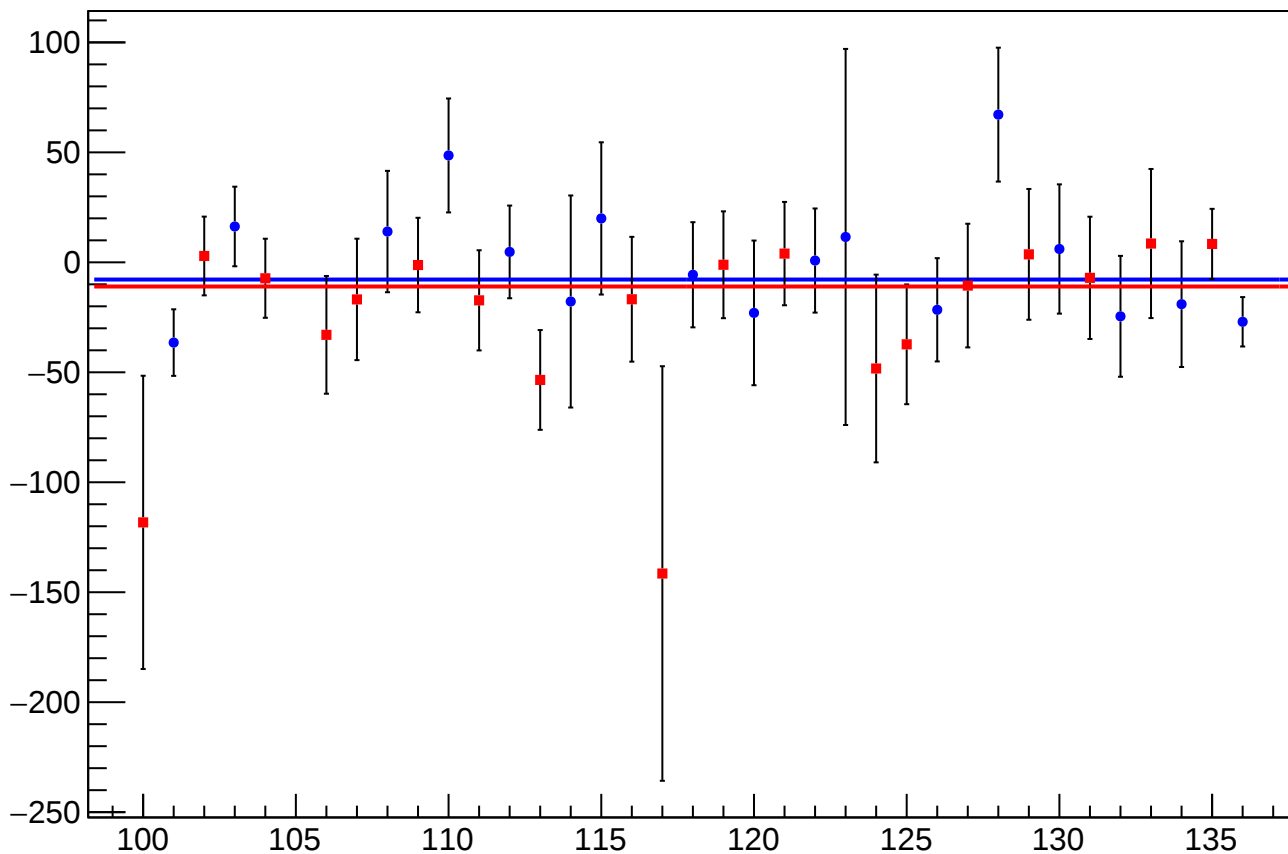
Right Out: 6933.910 $\pm$ 1.909  $\chi^2$ /NDF: 674395.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7070.672 $\pm$ 1.984  $\chi^2$ /NDF: 601692.5/16

6933.910 $\pm$ 1.909  $\chi^2$ /NDF: 674395.7/18

# diff\_bpm4acX\_mean vs Slug



Right In: -7.825+/-5.516  $\chi^2$ /NDF: 22.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

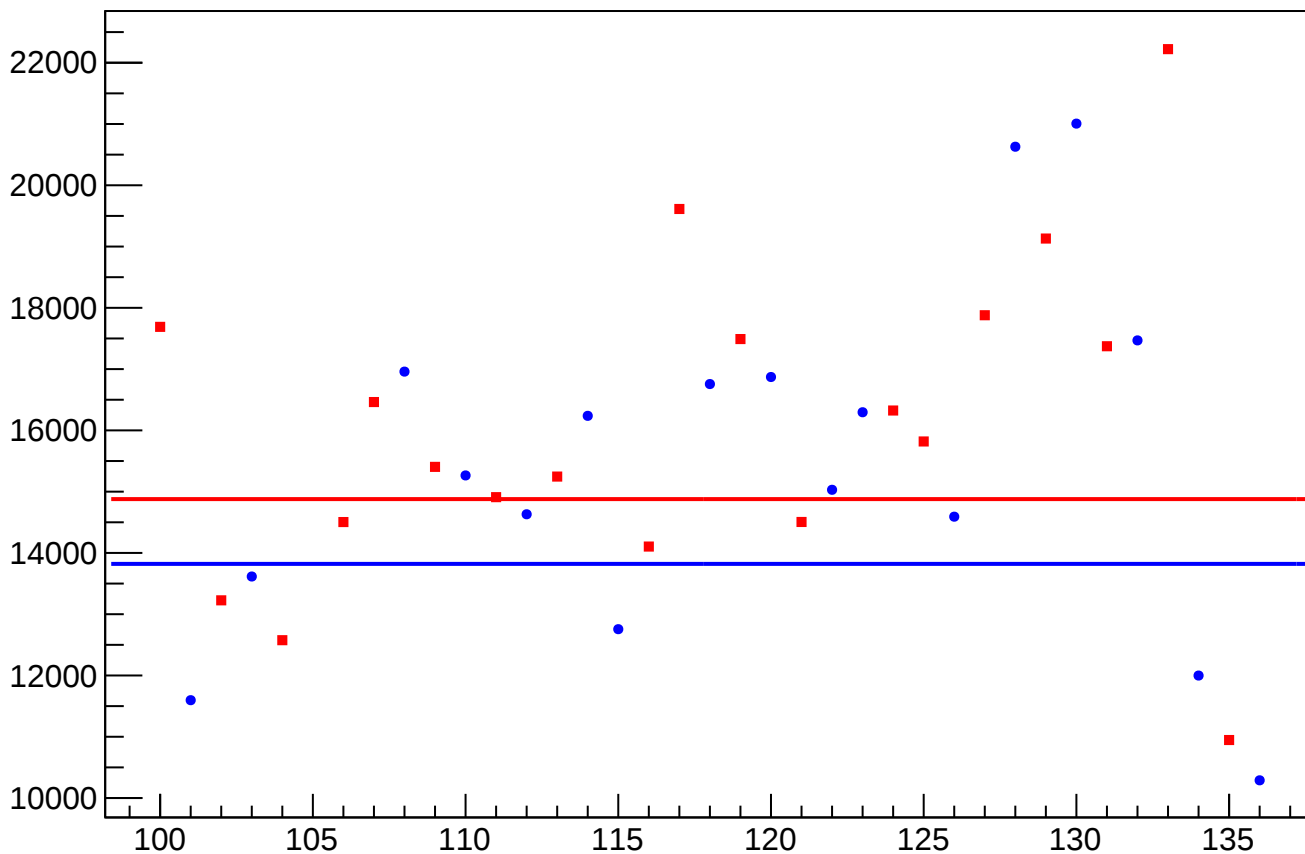
Right Out: -10.993+/-5.732  $\chi^2$ /NDF: 14.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-7.825+/-5.516  $\chi^2$ /NDF: 22.3/16

-10.993+/-5.732  $\chi^2$ /NDF: 14.0/18

# diff\_bpm4acX\_rms vs Slug



Right In: 13821.195+/-3.900  $\chi^2/\text{NDF}$ : 602672.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

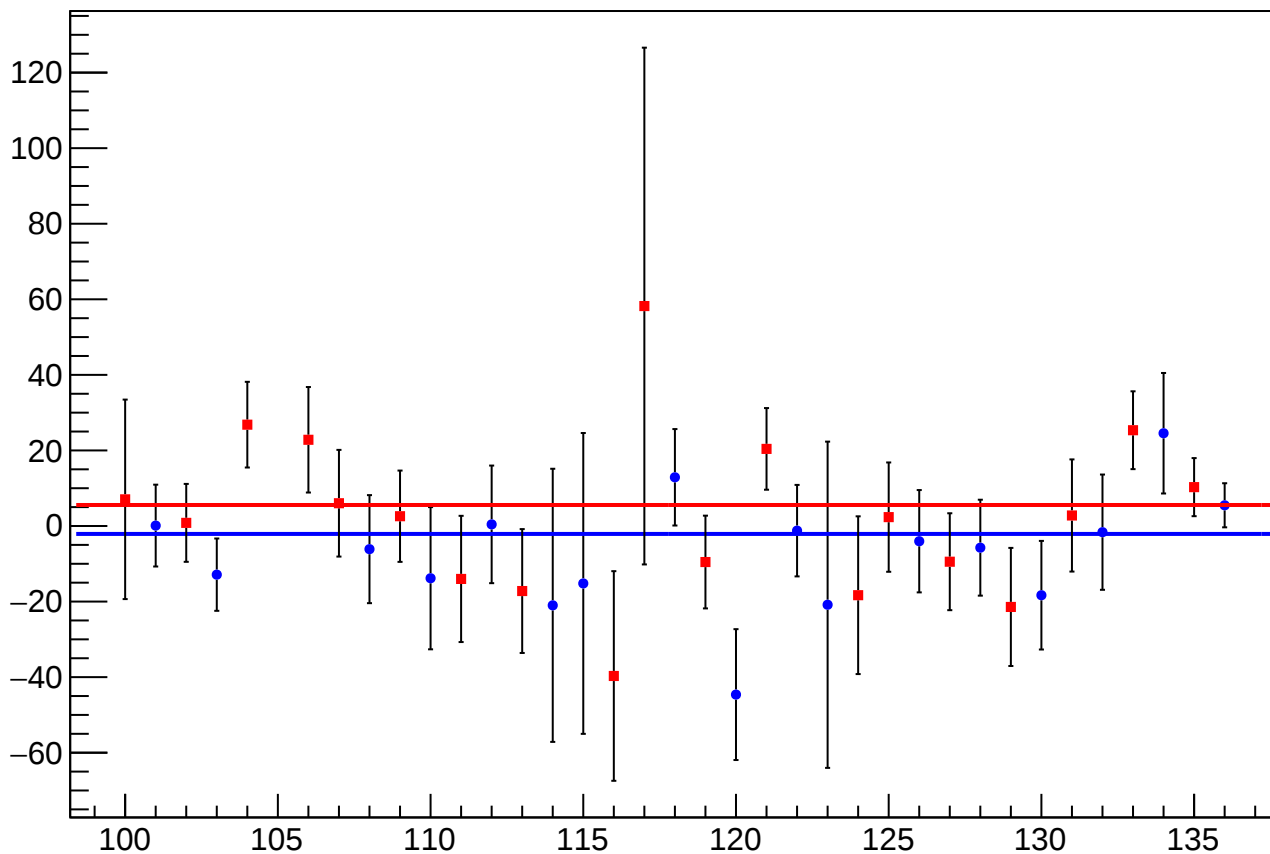
13821.195+/-3.900  $\chi^2/\text{NDF}$ : 602672.4/16

Right Out: 14878.518+/-4.053  $\chi^2/\text{NDF}$ : 391940.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14878.518+/-4.053  $\chi^2/\text{NDF}$ : 391940.1/18

# diff\_bpm4acY\_mean vs Slug



Right In: -2.098+/-3.106  $\chi^2/\text{NDF}$ : 15.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

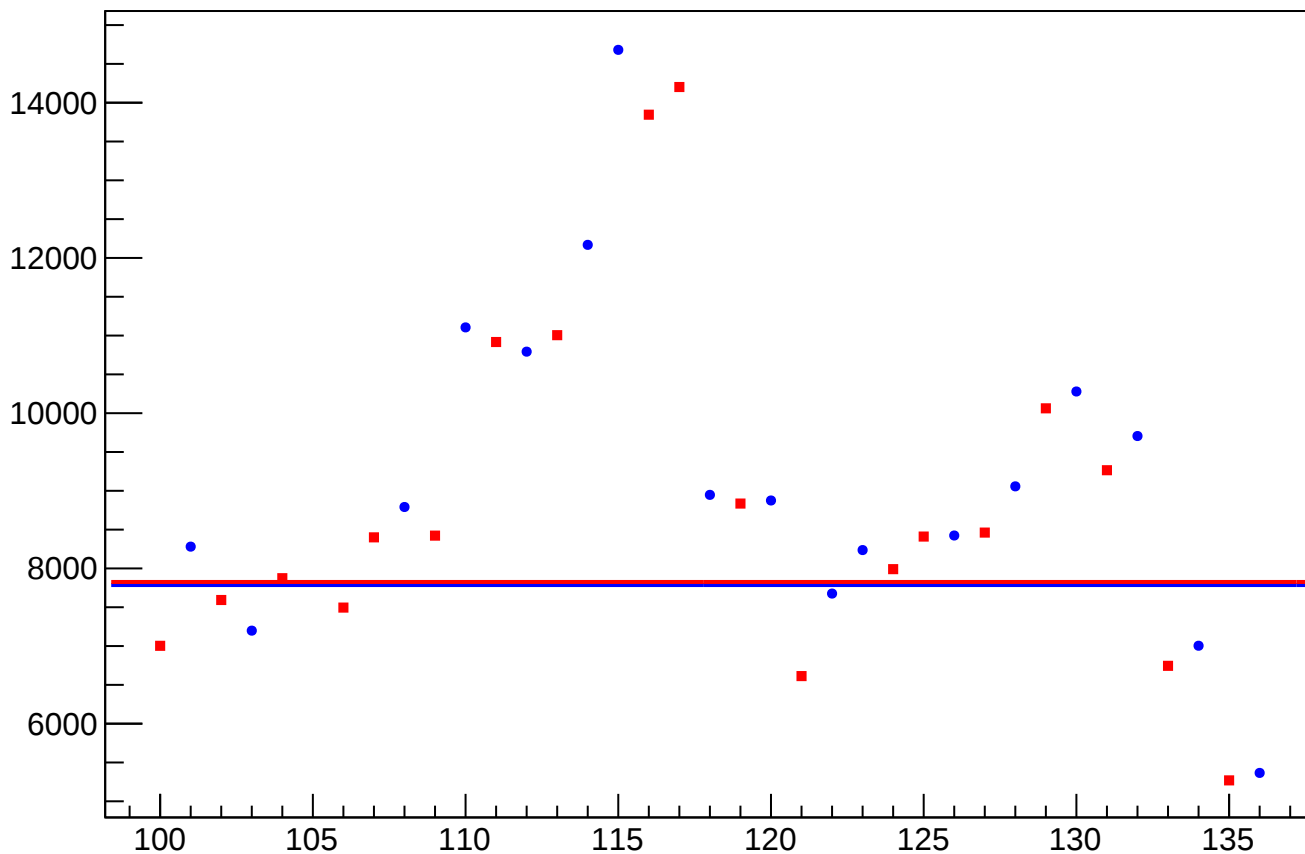
Right Out: 5.561+/-3.046  $\chi^2/\text{NDF}$ : 25.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.098+/-3.106  $\chi^2/\text{NDF}$ : 15.6/16

5.561+/-3.046  $\chi^2/\text{NDF}$ : 25.1/18

# diff\_bpm4acY\_rms vs Slug



Right In: 7785.931+/-2.197  $\chi^2/\text{NDF}$ : 738101.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

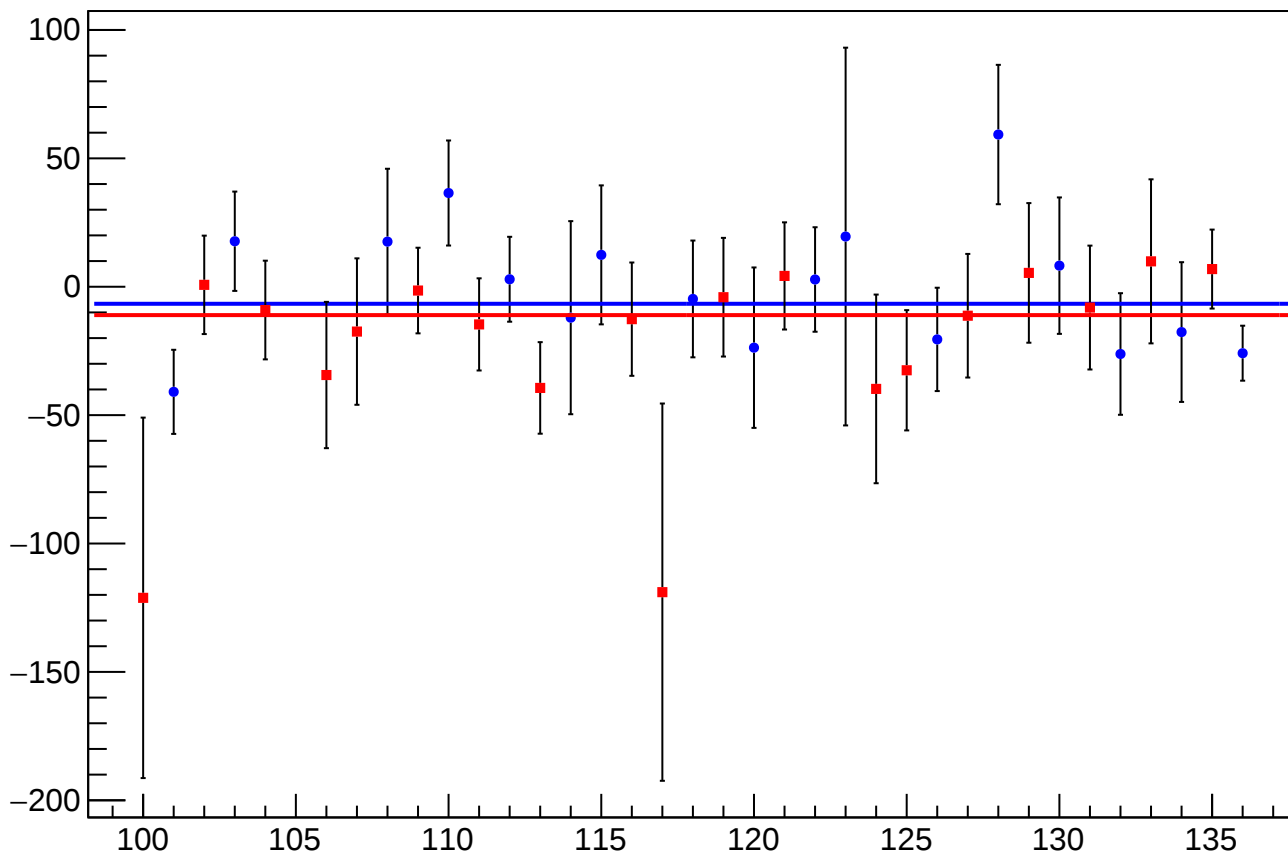
Right Out: 7825.705+/-2.154  $\chi^2/\text{NDF}$ : 617564.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7785.931+/-2.197  $\chi^2/\text{NDF}$ : 738101.9/16

7825.705+/-2.154  $\chi^2/\text{NDF}$ : 617564.7/18

# diff\_bpm4ecX\_mean vs Slug



Right In: -6.634+/-5.101  $\chi^2$ /NDF: 23.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

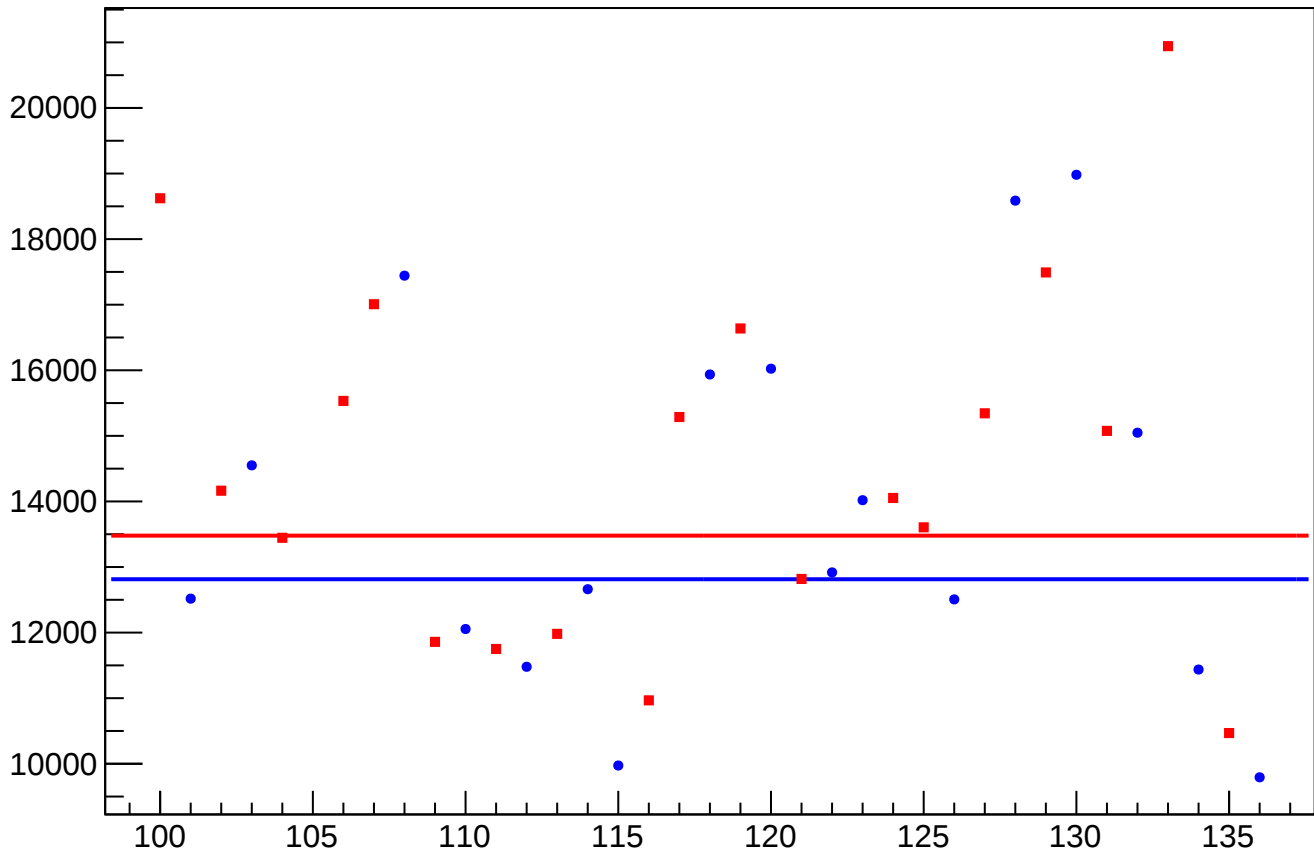
Right Out: -11.045+/-5.204  $\chi^2$ /NDF: 12.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-6.634+/-5.101  $\chi^2$ /NDF: 23.4/16

-11.045+/-5.204  $\chi^2$ /NDF: 12.9/18

# diff\_bpm4ecX\_rms vs Slug



Right In: 12813.726+/-3.607  $\chi^2/\text{NDF}$ : 548127.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

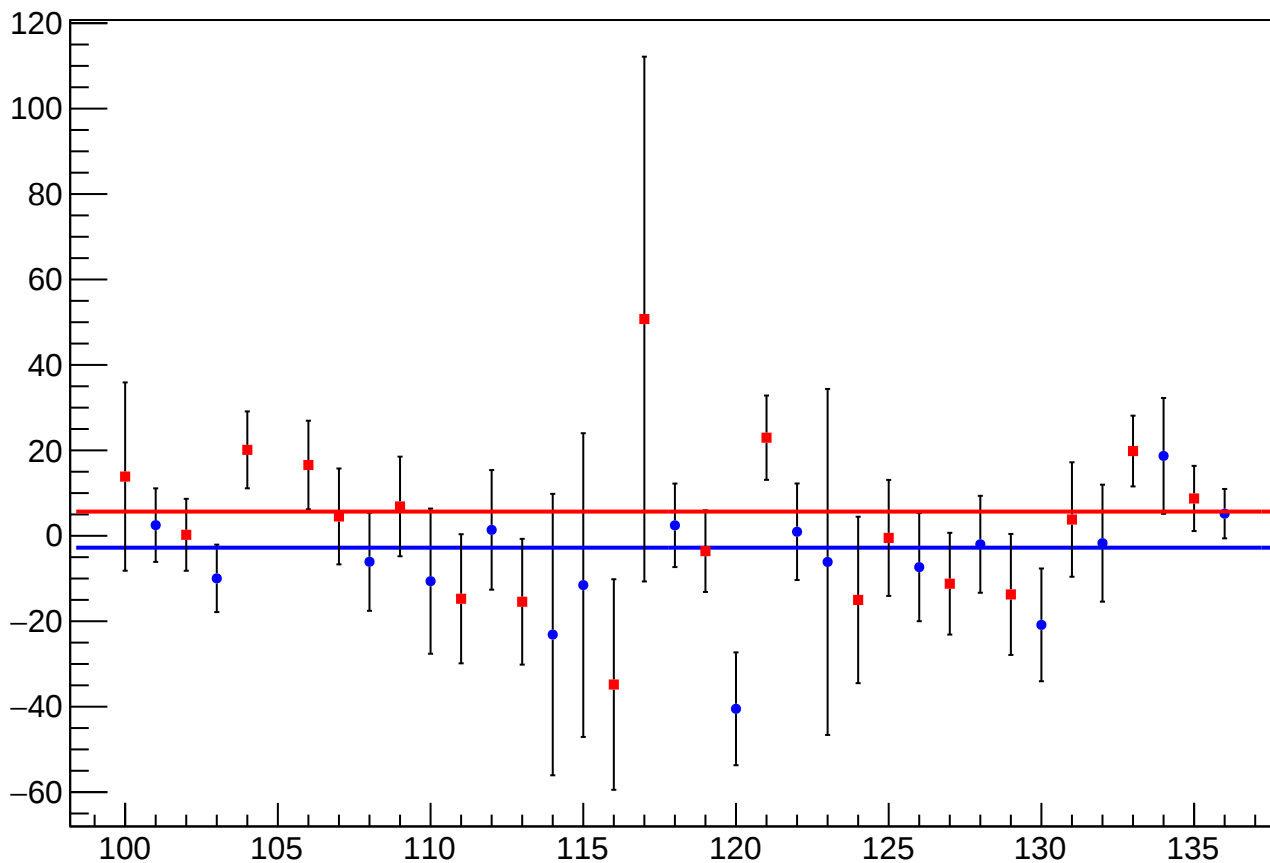
12813.726+/-3.607  $\chi^2/\text{NDF}$ : 548127.6/16

Right Out: 13478.461+/-3.680  $\chi^2/\text{NDF}$ : 423143.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13478.461+/-3.680  $\chi^2/\text{NDF}$ : 423143.3/18

diff\_bpm4ecY\_mean vs Slug



Right In: -2.778+/-2.747  $\chi^2$ /NDF: 17.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

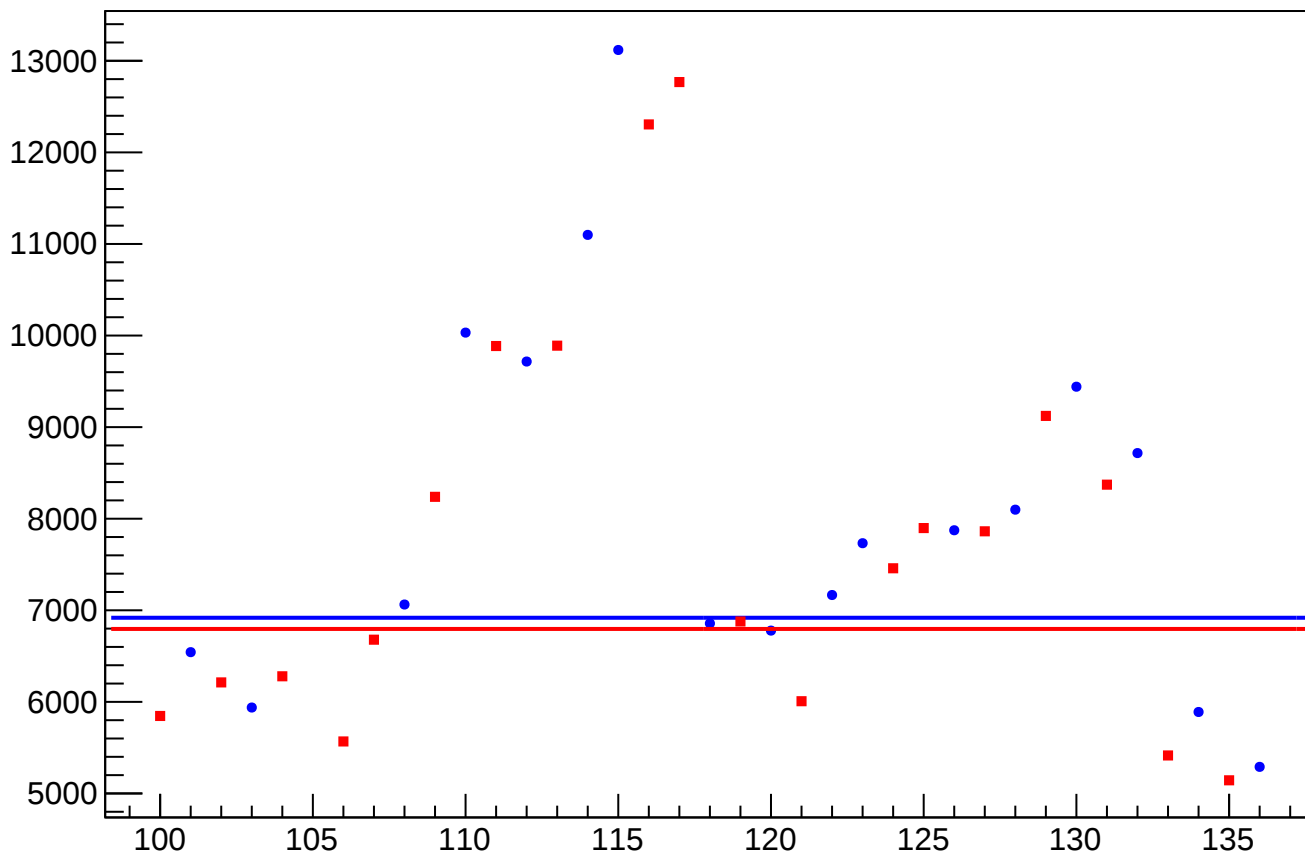
Right Out: 5.669+/-2.647  $\chi^2$ /NDF: 23.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2.778+/-2.747  $\chi^2$ /NDF: 17.0/16

5.669+/-2.647  $\chi^2$ /NDF: 23.7/18

# diff\_bpm4ecY\_rms vs Slug



Right In: 6918.554 $\pm$ 1.943  $\chi^2$ /NDF: 587976.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

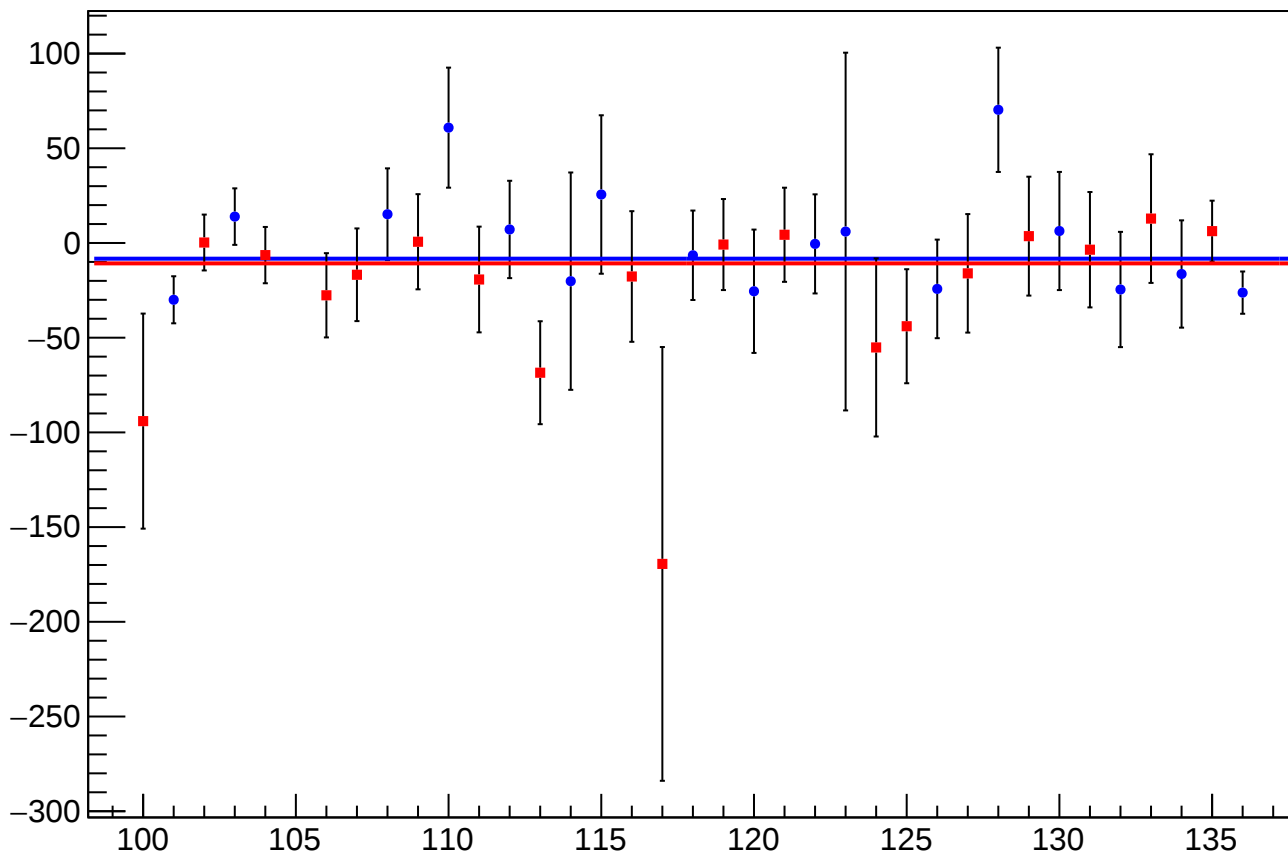
Right Out: 6796.376 $\pm$ 1.872  $\chi^2$ /NDF: 645188.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

6918.554 $\pm$ 1.943  $\chi^2$ /NDF: 587976.6/16

6796.376 $\pm$ 1.872  $\chi^2$ /NDF: 645188.7/18

# diff\_bpm1X\_mean vs Slug



Right In: -8.286+/-5.410  $\chi^2$ /NDF: 21.7/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

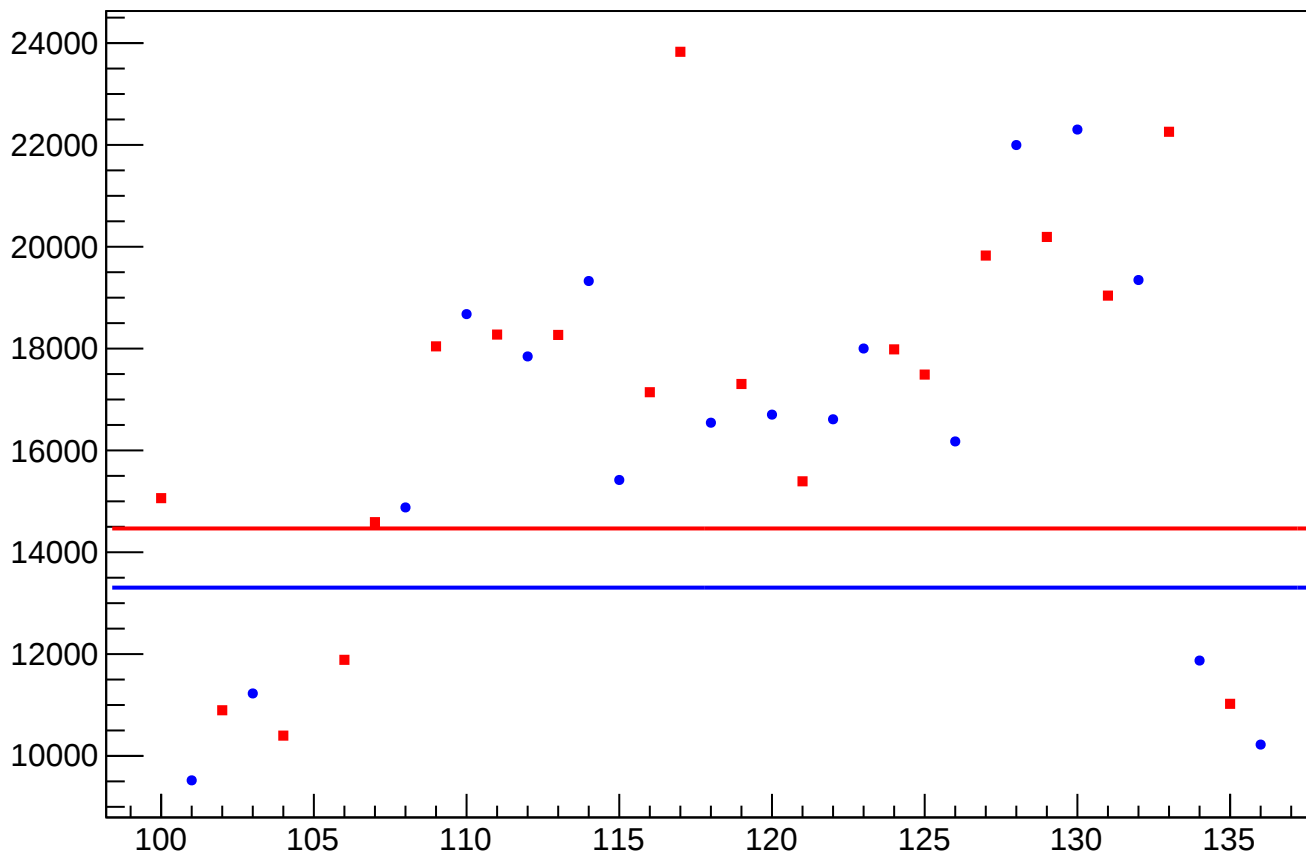
Right Out: -10.770+/-5.677  $\chi^2$ /NDF: 14.8/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-8.286+/-5.410  $\chi^2$ /NDF: 21.7/16

-10.770+/-5.677  $\chi^2$ /NDF: 14.8/18

# diff\_bpm1X\_rms vs Slug



Right In: 13305.410+/-3.826  $\chi^2/\text{NDF}$ : 1044091.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

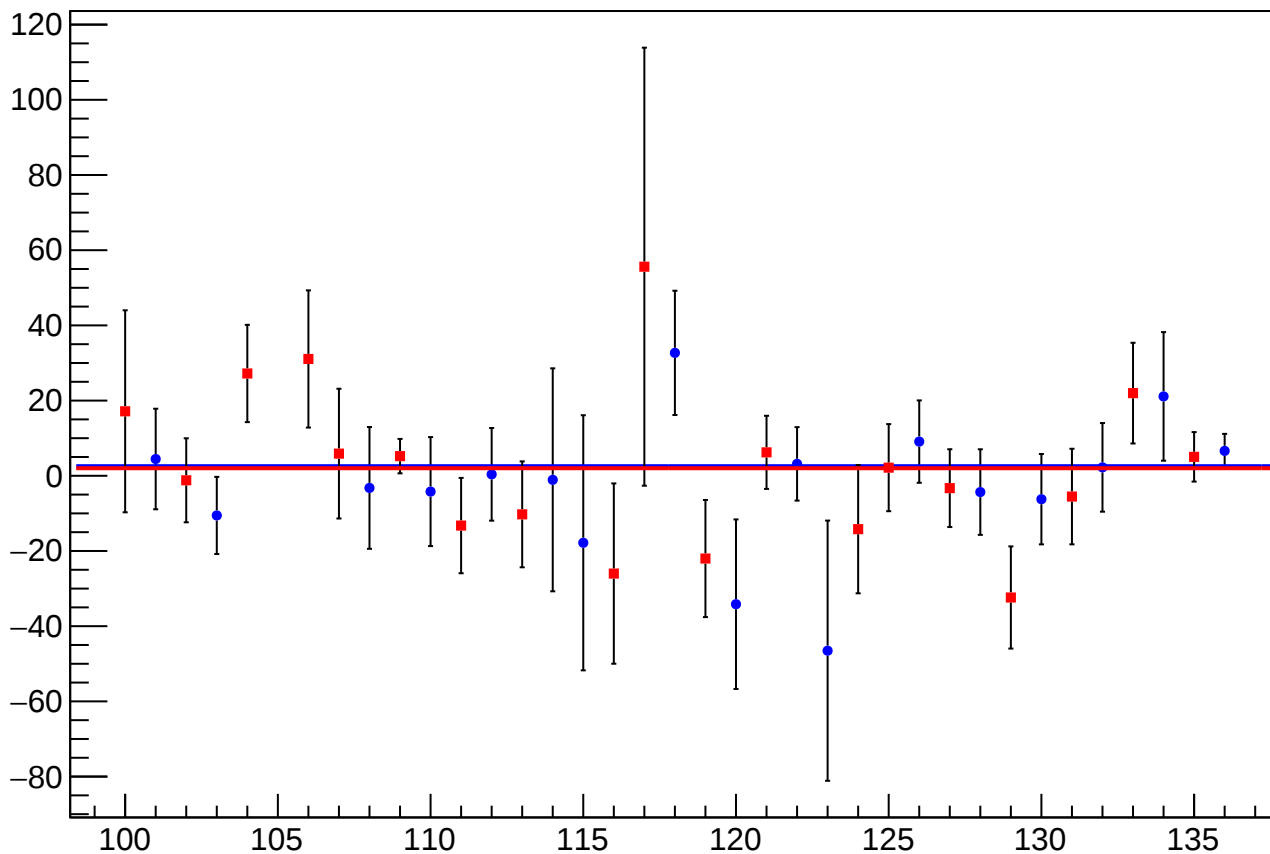
Right Out: 14467.190+/-4.014  $\chi^2/\text{NDF}$ : 866003.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13305.410+/-3.826  $\chi^2/\text{NDF}$ : 1044091.1/16

14467.190+/-4.014  $\chi^2/\text{NDF}$ : 866003.4/18

# diff\_bpm1Y\_mean vs Slug



Right In: 2.551+/-2.757     $\chi^2/\text{NDF}$ : 13.6/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

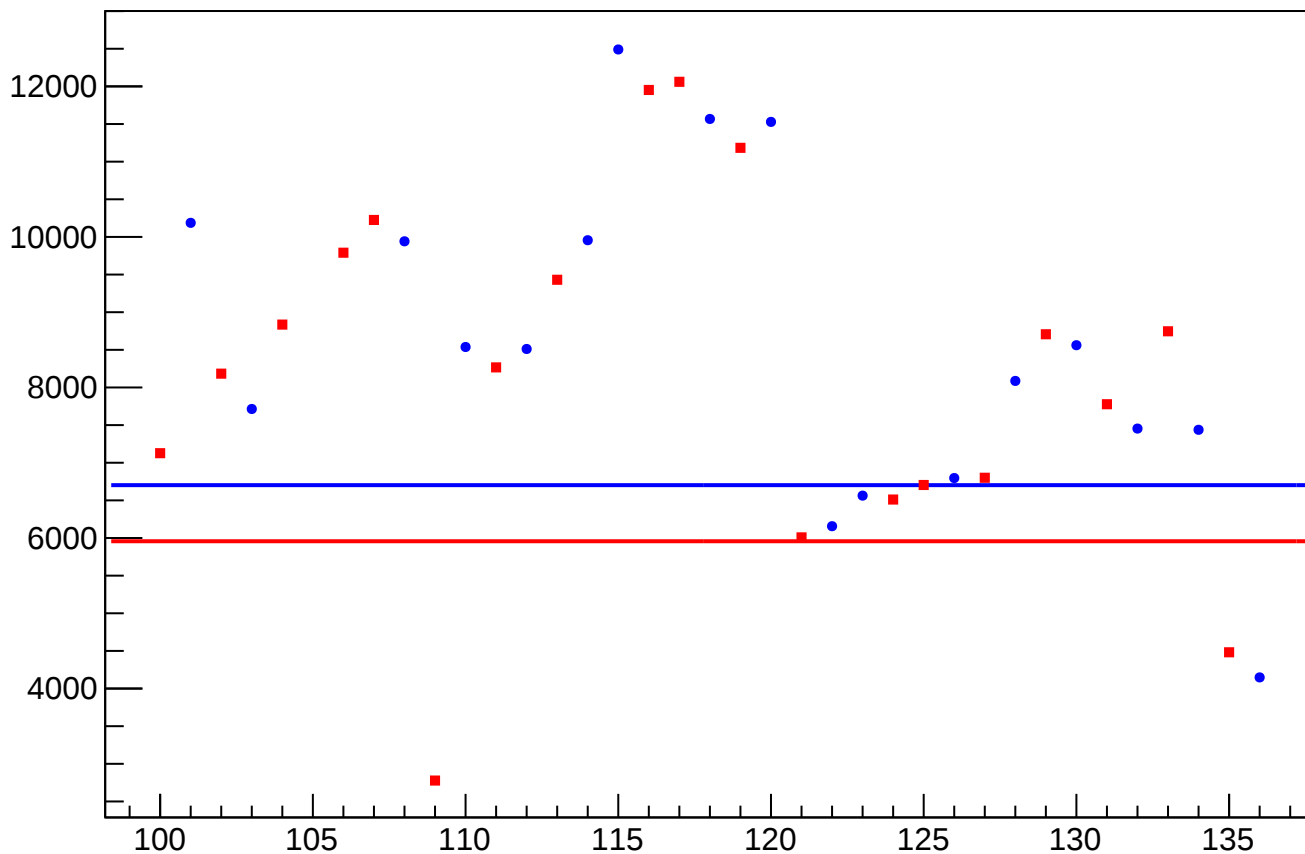
Right Out: 2.011+/-2.516     $\chi^2/\text{NDF}$ : 24.6/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

2.551+/-2.757     $\chi^2/\text{NDF}$ : 13.6/16

2.011+/-2.516     $\chi^2/\text{NDF}$ : 24.6/18

# diff\_bpm1Y\_rms vs Slug



Right In: 6702.245 $\pm$ 1.949  $\chi^2$ /NDF: 1389956.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

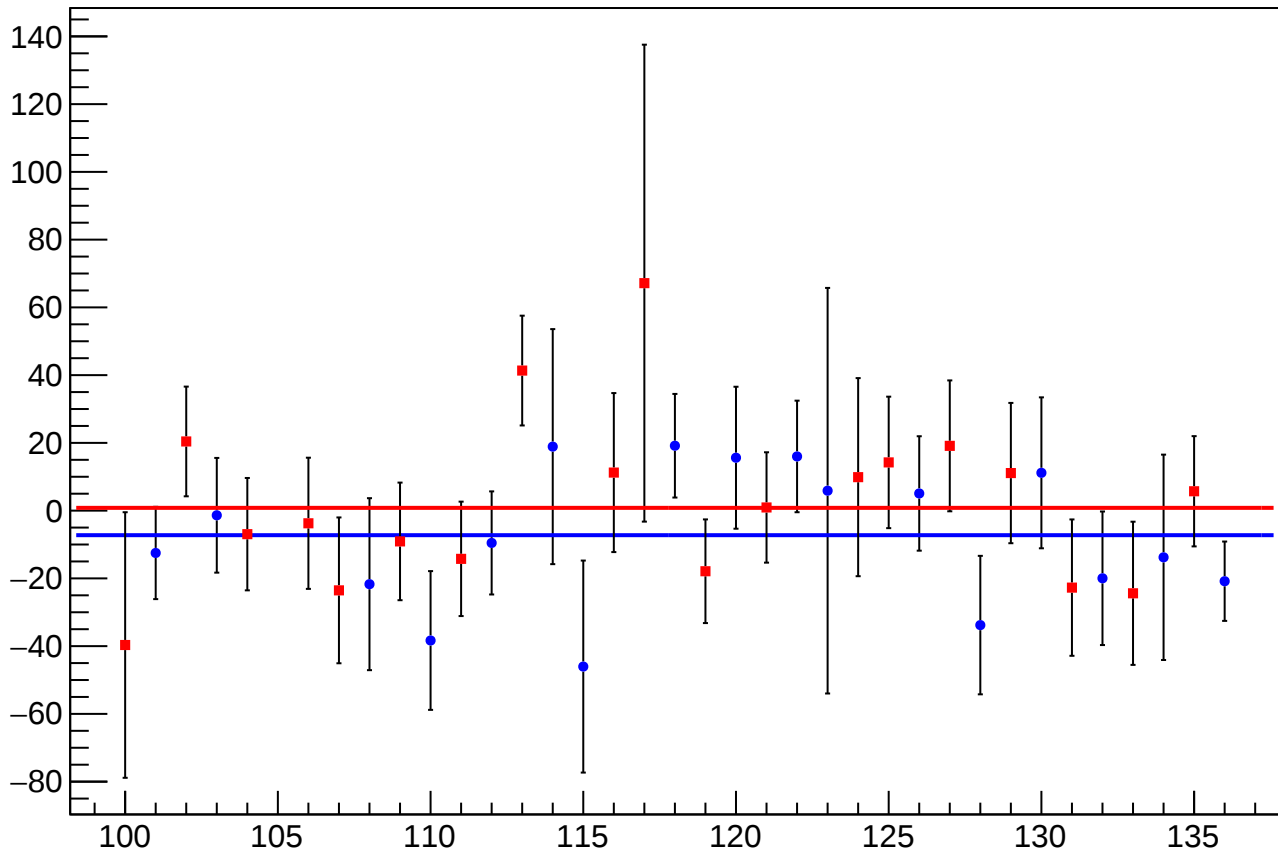
Right Out: 5957.055 $\pm$ 1.779  $\chi^2$ /NDF: 2251792.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

6702.245 $\pm$ 1.949  $\chi^2$ /NDF: 1389956.8/16

5957.055 $\pm$ 1.779  $\chi^2$ /NDF: 2251792.1/18

# diff\_bpm11X\_mean vs Slug



Right In: -7.245+/-4.547  $\chi^2/\text{NDF}$ : 15.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

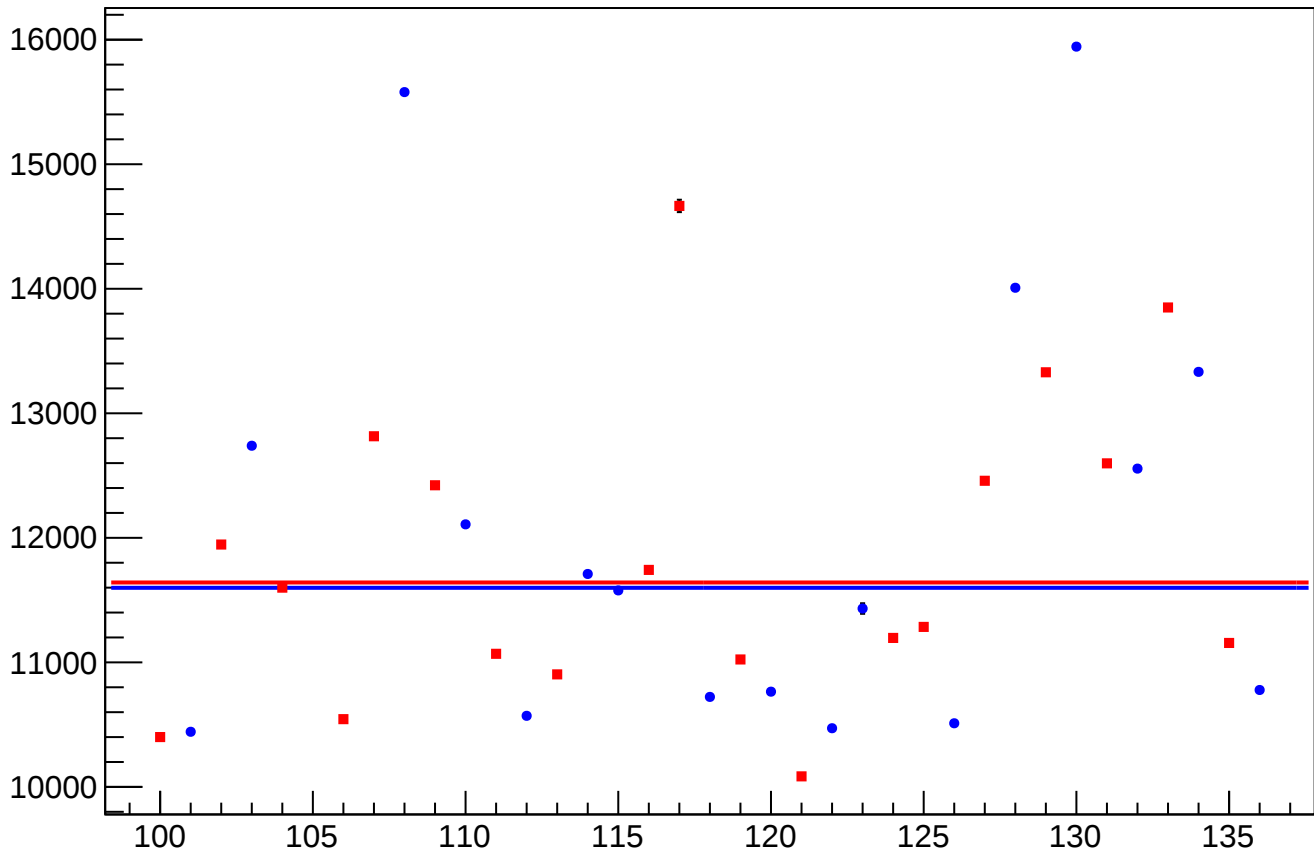
Right Out: 0.823+/-4.431  $\chi^2/\text{NDF}$ : 18.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-7.245+/-4.547  $\chi^2/\text{NDF}$ : 15.9/16

0.823+/-4.431  $\chi^2/\text{NDF}$ : 18.6/18

# diff\_bpm11X\_rms vs Slug



Right In: 11598.751+/-3.215  $\chi^2/\text{NDF}$ : 235423.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

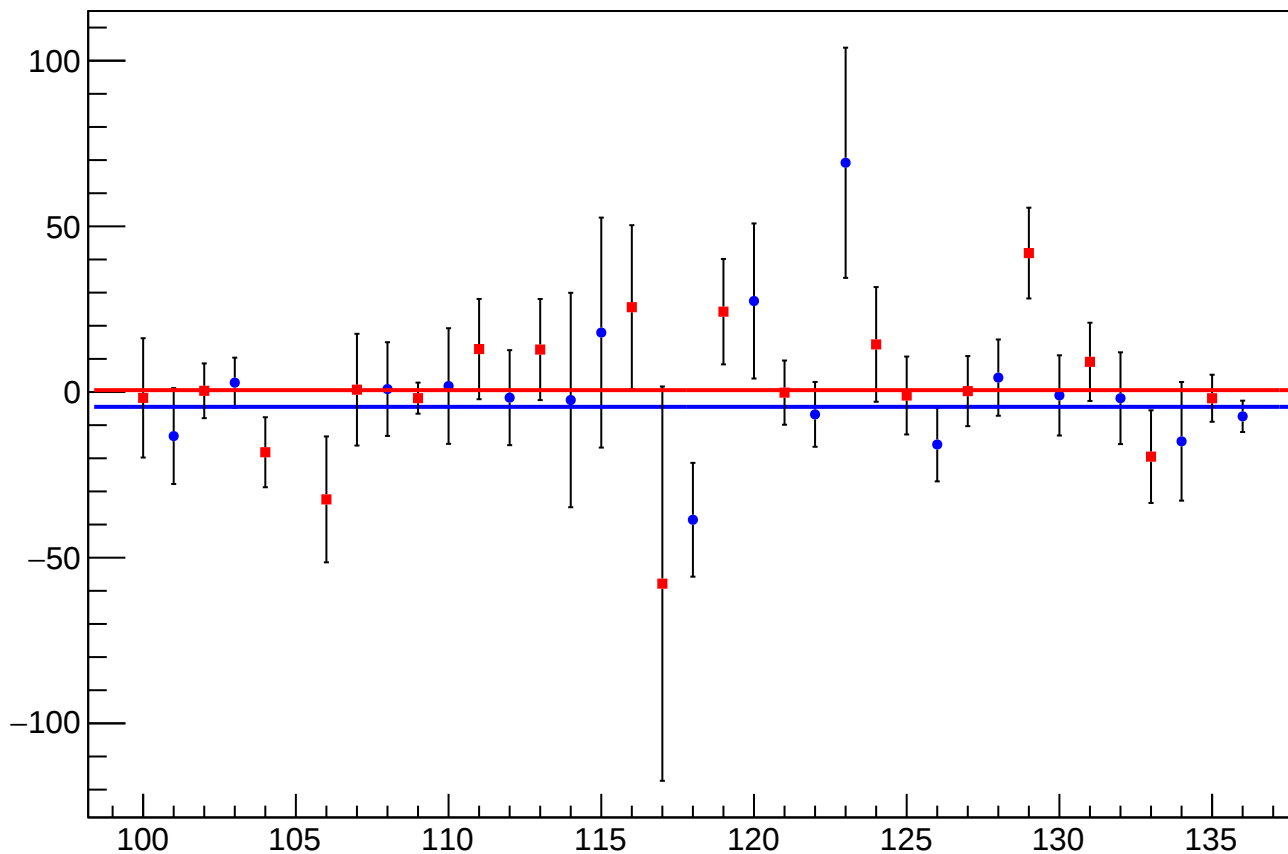
Right Out: 11641.453+/-3.133  $\chi^2/\text{NDF}$ : 96988.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

11598.751+/-3.215  $\chi^2/\text{NDF}$ : 235423.8/16

11641.453+/-3.133  $\chi^2/\text{NDF}$ : 96988.7/18

# diff\_bpm11Y\_mean vs Slug



Right In: -4.476+/-2.782  $\chi^2$ /NDF: 14.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

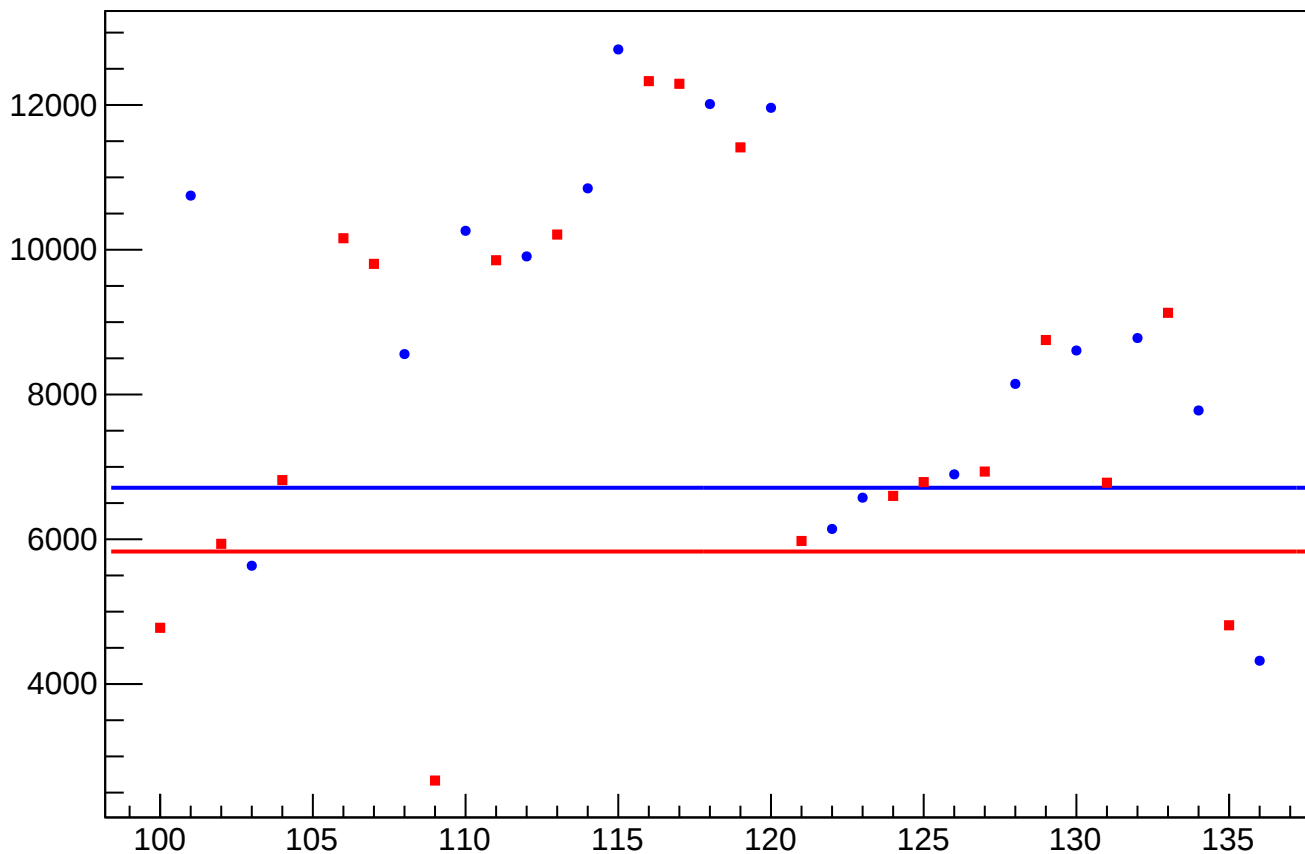
Right Out: 0.569+/-2.495  $\chi^2$ /NDF: 24.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-4.476+/-2.782  $\chi^2$ /NDF: 14.8/16

0.569+/-2.495  $\chi^2$ /NDF: 24.4/18

# diff\_bpm11Y\_rms vs Slug



Right In: 6711.550+/-1.967  $\chi^2/\text{NDF}$ : 1446972.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

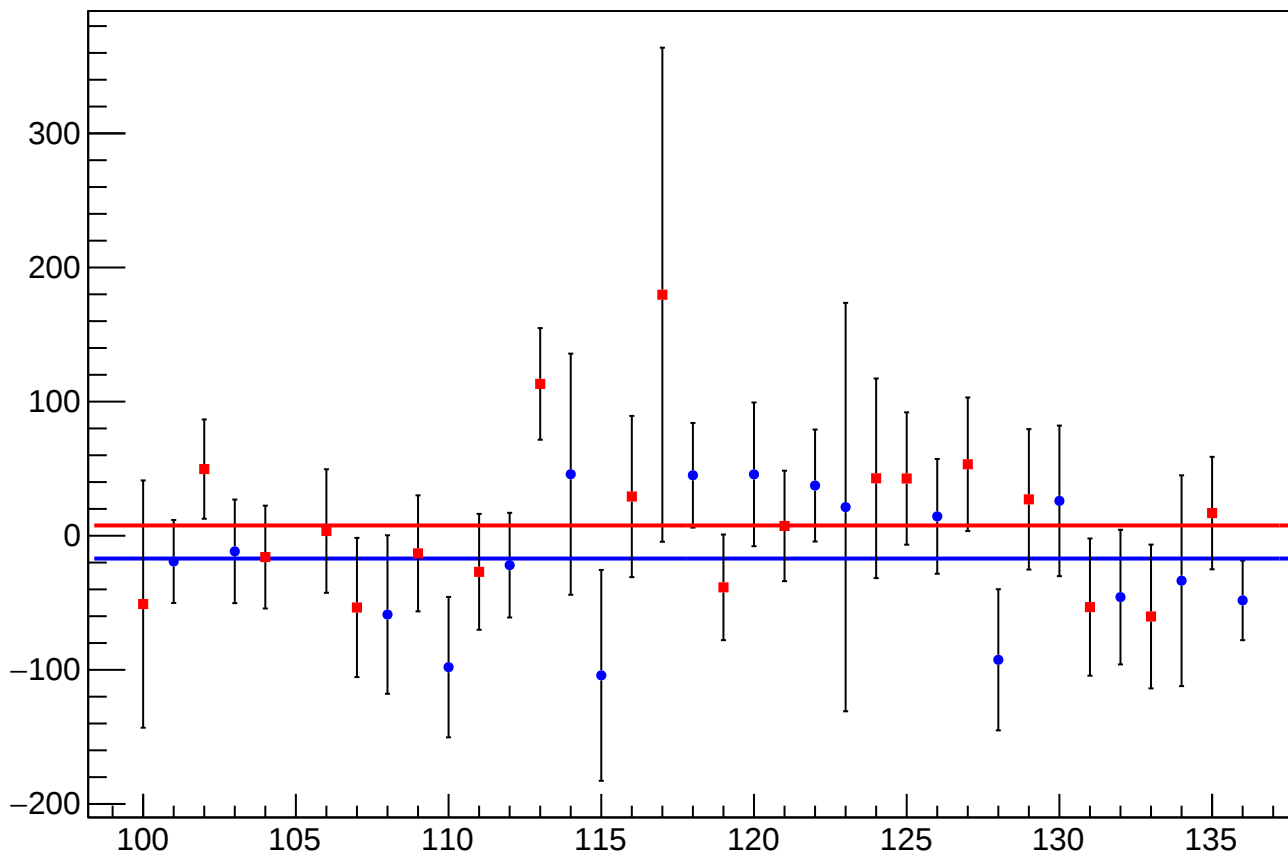
Right Out: 5830.749+/-1.764  $\chi^2/\text{NDF}$ : 2161169.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6711.550+/-1.967  $\chi^2/\text{NDF}$ : 1446972.0/16

5830.749+/-1.764  $\chi^2/\text{NDF}$ : 2161169.7/18

# diff\_bpm12X\_mean vs Slug



Right In:  $-17.010 \pm 11.287$   $\chi^2/\text{NDF}$ : 15.0/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

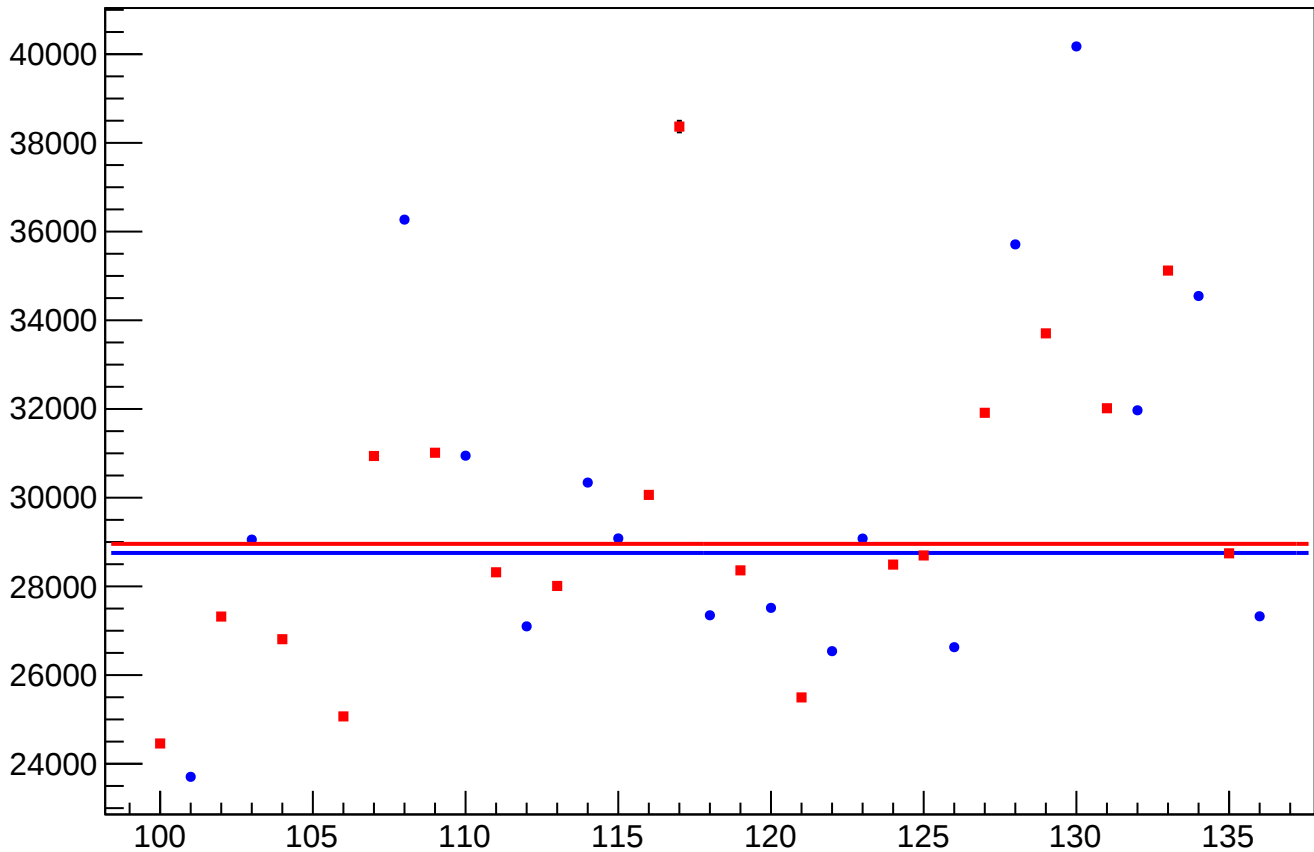
Right Out:  $7.657 \pm 11.032$   $\chi^2/\text{NDF}$ : 17.9/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-17.010 \pm 11.287$   $\chi^2/\text{NDF}$ : 15.0/16

$7.657 \pm 11.032$   $\chi^2/\text{NDF}$ : 17.9/18

# diff\_bpm12X\_rms vs Slug



Right In: 28753.787 $\pm$ 7.981  $\chi^2$ /NDF: 249215.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

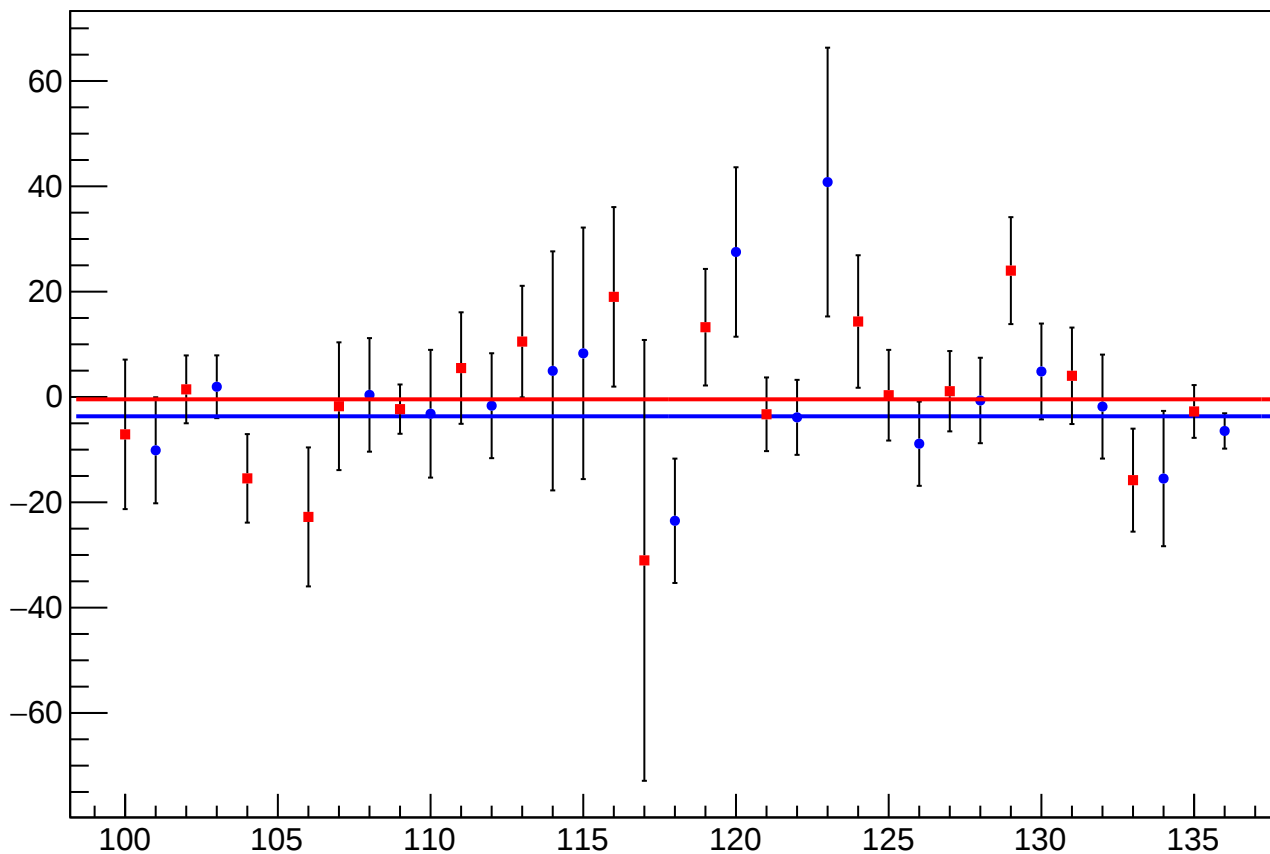
Right Out: 28958.680 $\pm$ 7.801  $\chi^2$ /NDF: 115876.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

28753.787 $\pm$ 7.981  $\chi^2$ /NDF: 249215.1/16

28958.680 $\pm$ 7.801  $\chi^2$ /NDF: 115876.1/18

# diff\_bpm12Y\_mean vs Slug



Right In: -3.668+/-2.010  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

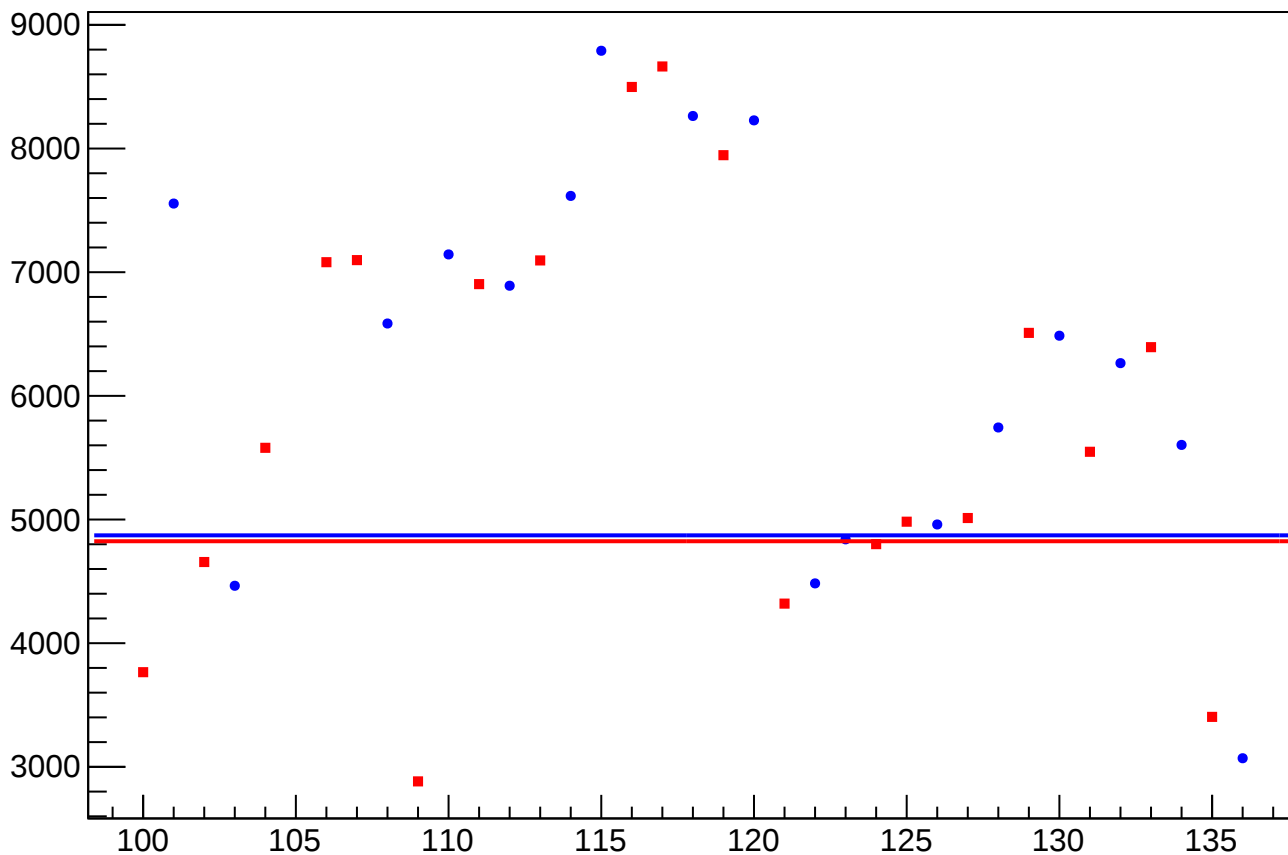
Right Out: -0.443+/-1.958  $\chi^2/\text{NDF}$ : 21.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.668+/-2.010  $\chi^2/\text{NDF}$ : 14.5/16

-0.443+/-1.958  $\chi^2/\text{NDF}$ : 21.6/18

# diff\_bpm12Y\_rms vs Slug



Right In: 4872.105+/-1.421  $\chi^2$ /NDF: 1405253.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

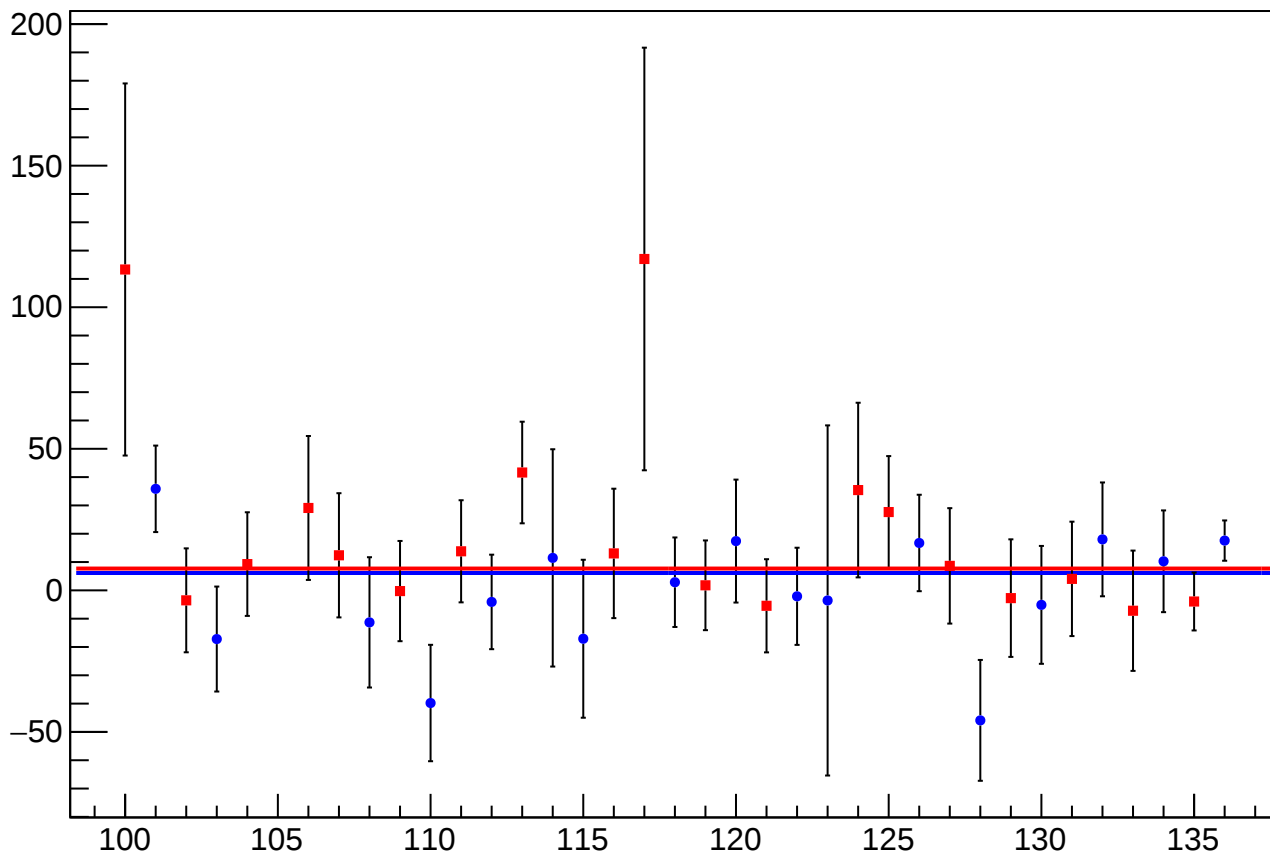
Right Out: 4824.417+/-1.385  $\chi^2$ /NDF: 1231750.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4872.105+/-1.421  $\chi^2$ /NDF: 1405253.2/16

4824.417+/-1.385  $\chi^2$ /NDF: 1231750.7/18

# diff\_bpm16X\_mean vs Slug



Right In: 6.133+/-4.080  $\chi^2/\text{NDF}$ : 22.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

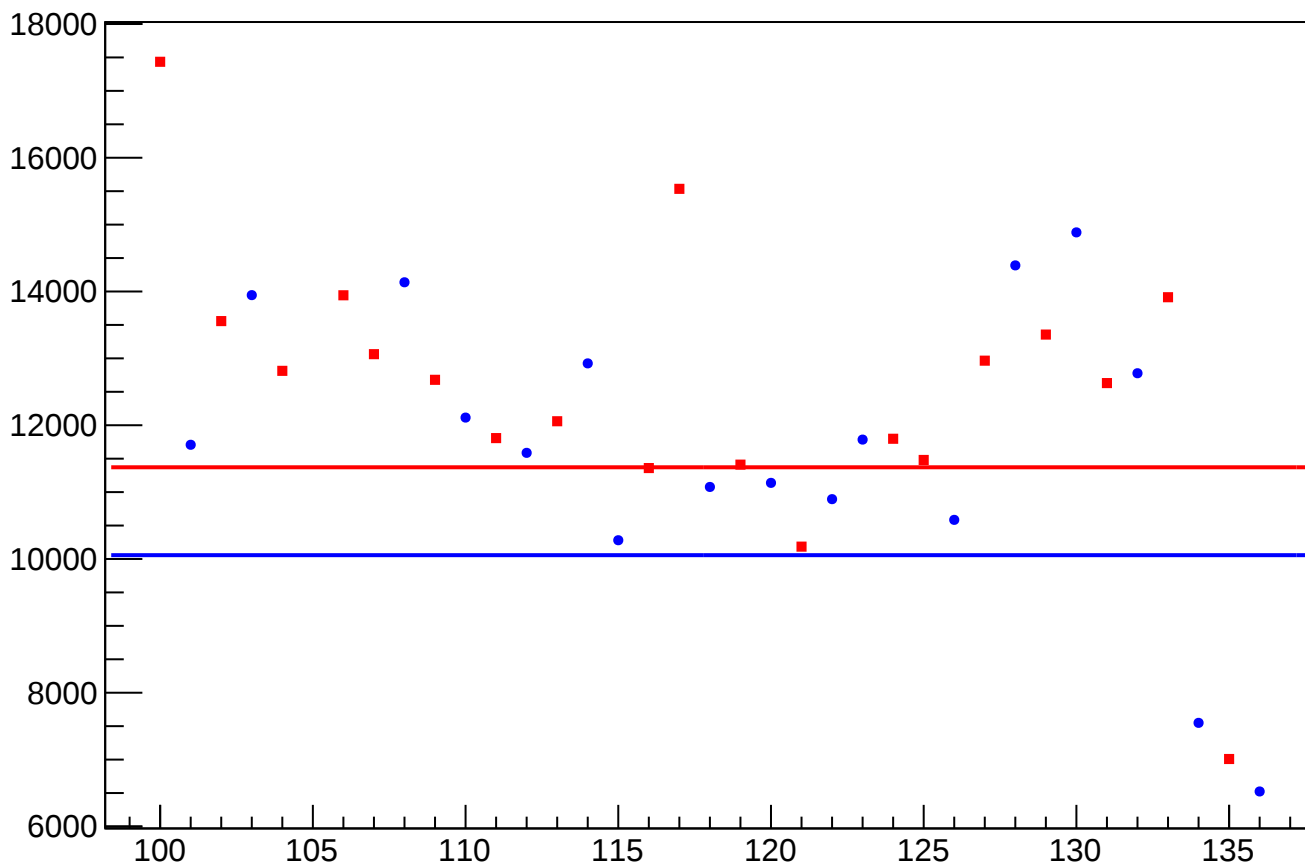
Right Out: 7.704+/-4.405  $\chi^2/\text{NDF}$ : 14.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6.133+/-4.080  $\chi^2/\text{NDF}$ : 22.2/16

7.704+/-4.405  $\chi^2/\text{NDF}$ : 14.5/18

# diff\_bpm16X\_rms vs Slug



Right In: 10056.991+/-2.885  $\chi^2/\text{NDF}$ : 1002872.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

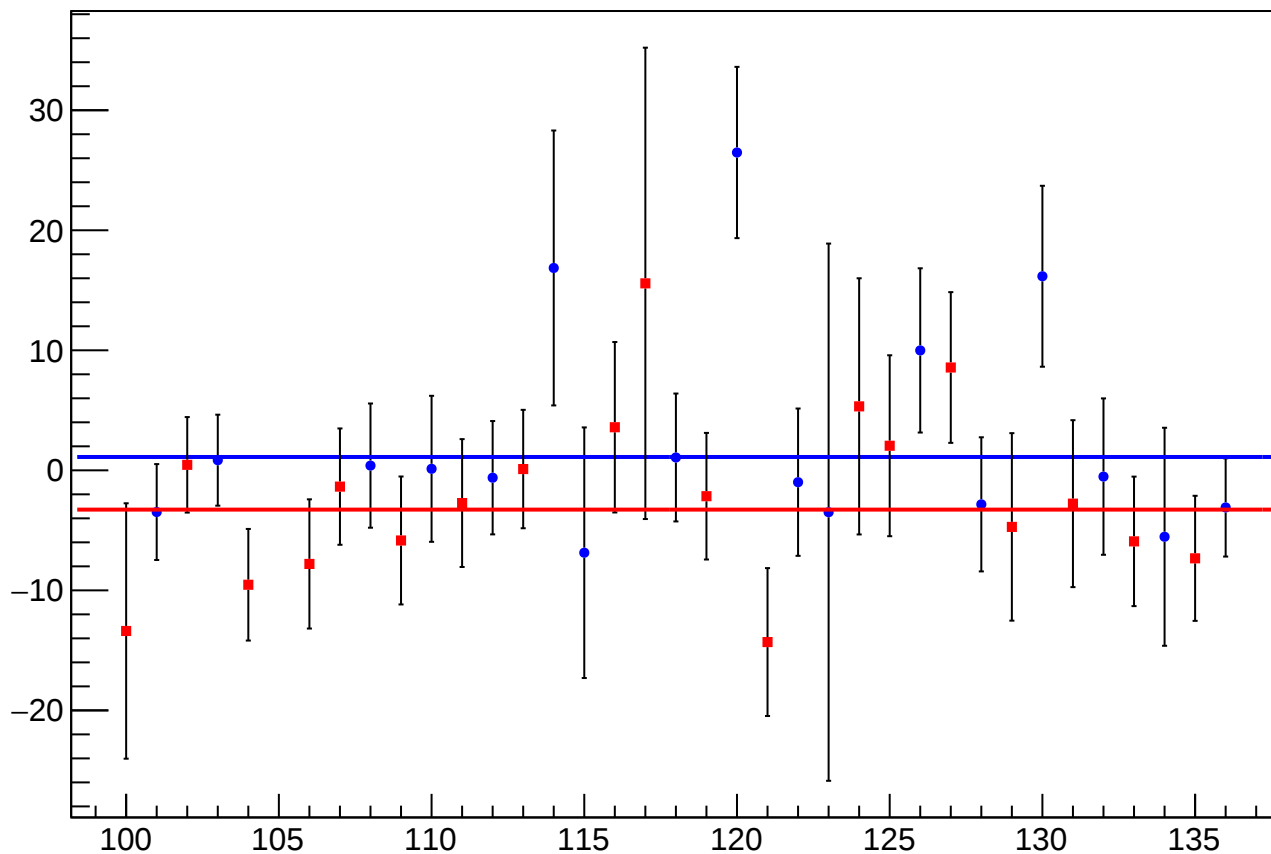
Right Out: 11371.276+/-3.115  $\chi^2/\text{NDF}$ : 553454.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10056.991+/-2.885  $\chi^2/\text{NDF}$ : 1002872.6/16

11371.276+/-3.115  $\chi^2/\text{NDF}$ : 553454.9/18

# diff\_bpm16Y\_mean vs Slug



Right In: 1.112+/-1.403  $\chi^2/\text{NDF}$ : 24.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

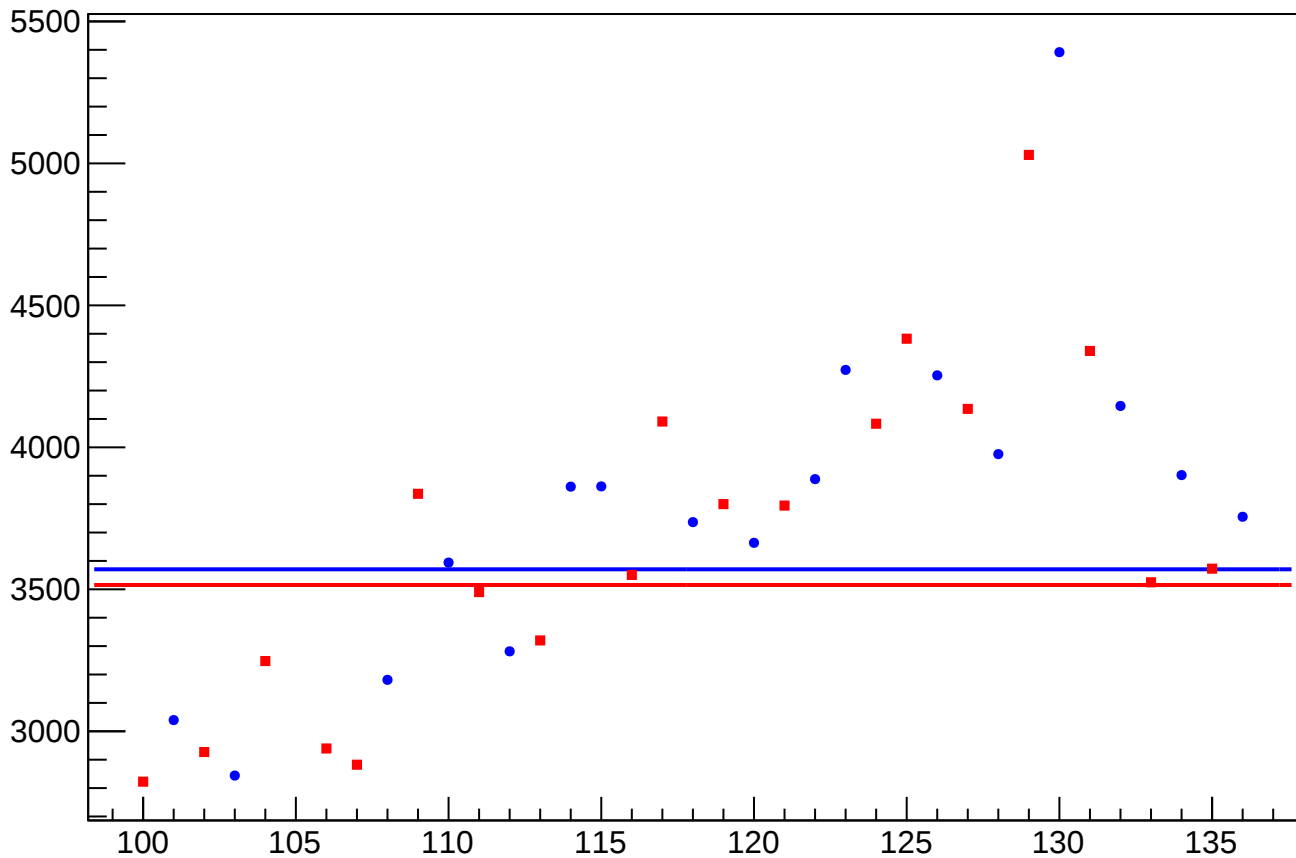
Right Out: -3.272+/-1.346  $\chi^2/\text{NDF}$ : 15.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.112+/-1.403  $\chi^2/\text{NDF}$ : 24.6/16

-3.272+/-1.346  $\chi^2/\text{NDF}$ : 15.9/18

# diff\_bpm16Y\_rms vs Slug



Right In: 3570.481+/-0.992  $\chi^2/\text{NDF}$ : 309699.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

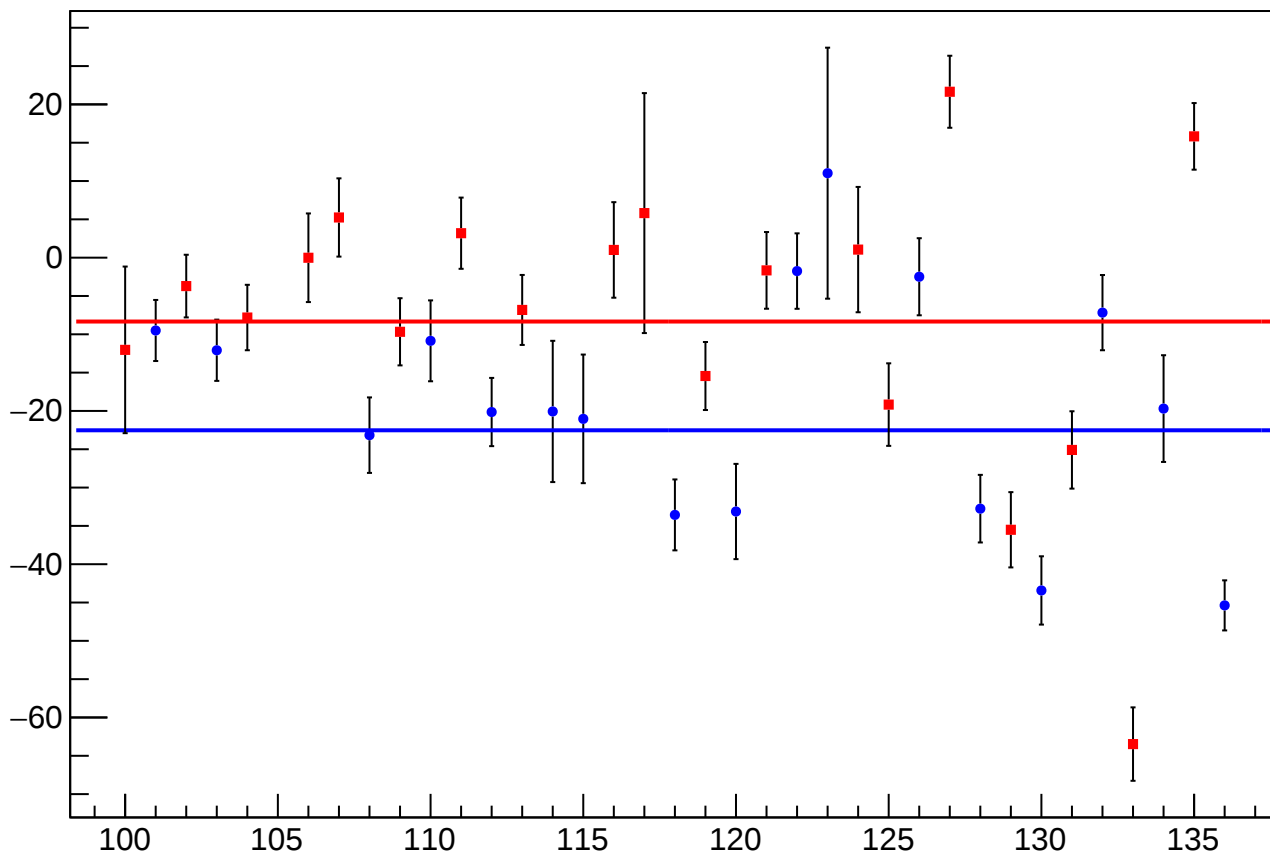
Right Out: 3515.279+/-0.952  $\chi^2/\text{NDF}$ : 293243.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3570.481+/-0.992  $\chi^2/\text{NDF}$ : 309699.2/16

3515.279+/-0.952  $\chi^2/\text{NDF}$ : 293243.5/18

# diff\_bpm0l01X\_mean vs Slug



Right In: -22.526+/-1.201  $\chi^2/\text{NDF}$ : 155.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

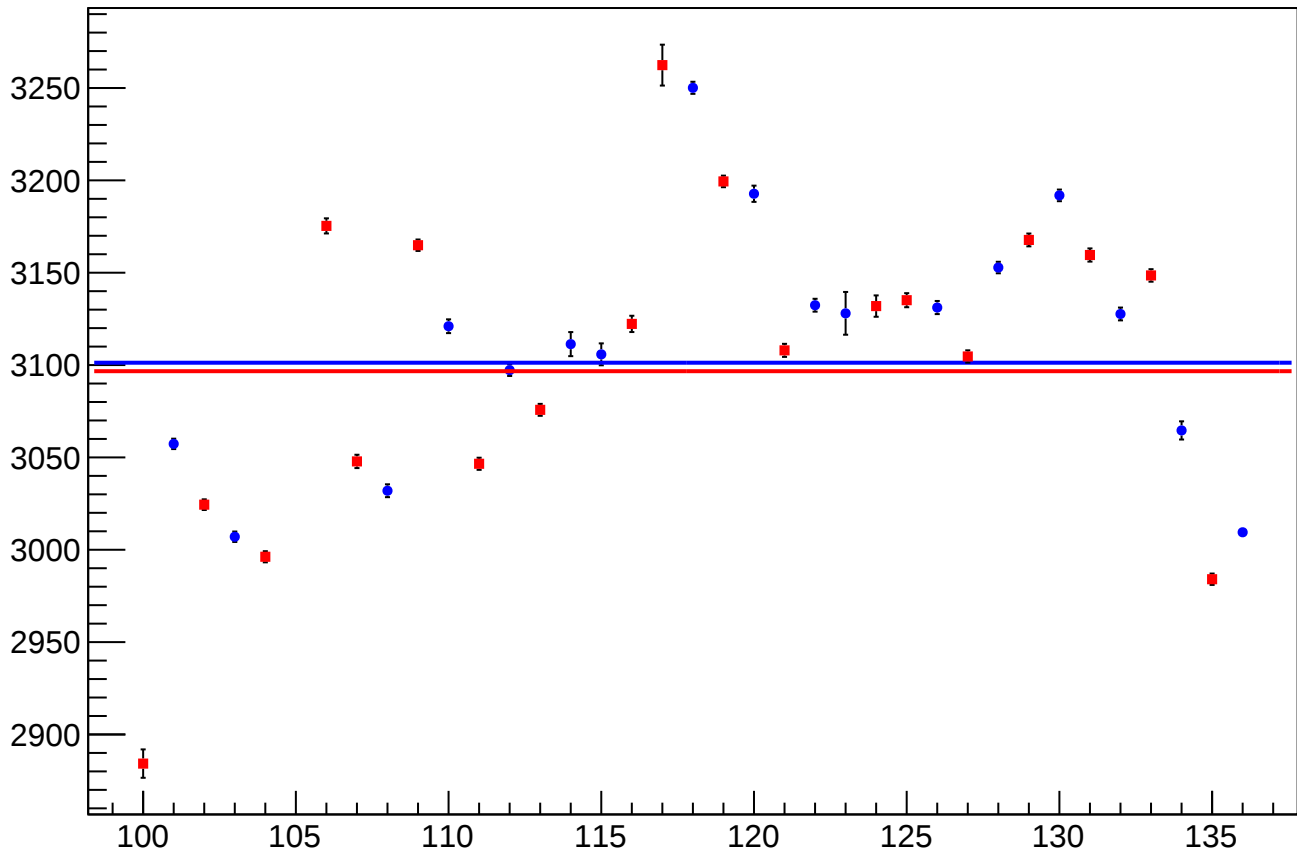
Right Out: -8.334+/-1.170  $\chi^2/\text{NDF}$ : 275.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-22.526+/-1.201  $\chi^2/\text{NDF}$ : 155.5/16

-8.334+/-1.170  $\chi^2/\text{NDF}$ : 275.4/18

# diff\_bpm0l01X\_rms vs Slug



Right In: 3101.270+/-0.849  $\chi^2/\text{NDF}$ : 7233.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

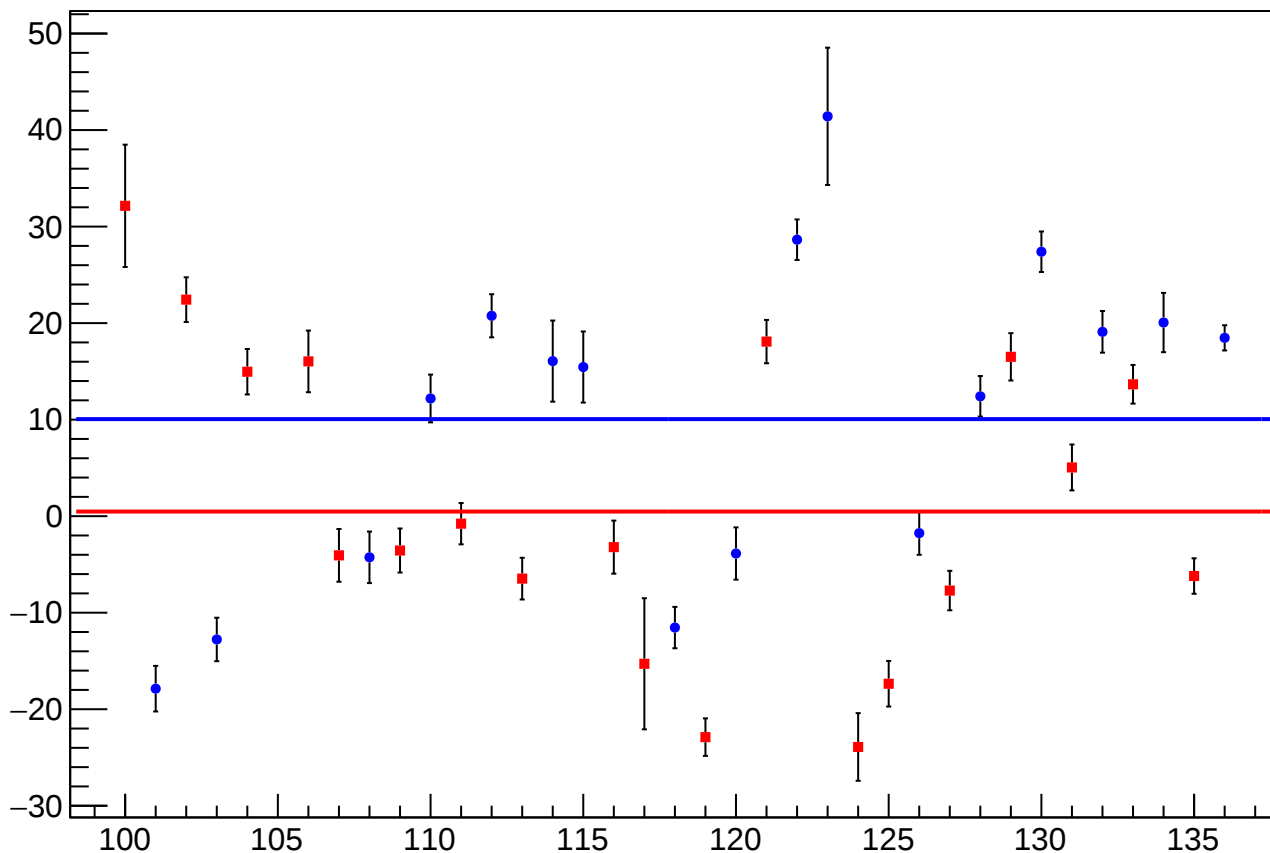
Right Out: 3096.678+/-0.827  $\chi^2/\text{NDF}$ : 7600.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3101.270+/-0.849  $\chi^2/\text{NDF}$ : 7233.8/16

3096.678+/-0.827  $\chi^2/\text{NDF}$ : 7600.4/18

# diff\_bpm0l01Y\_mean vs Slug



Right In: 10.055+/-0.562  $\chi^2/\text{NDF}$ : 692.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

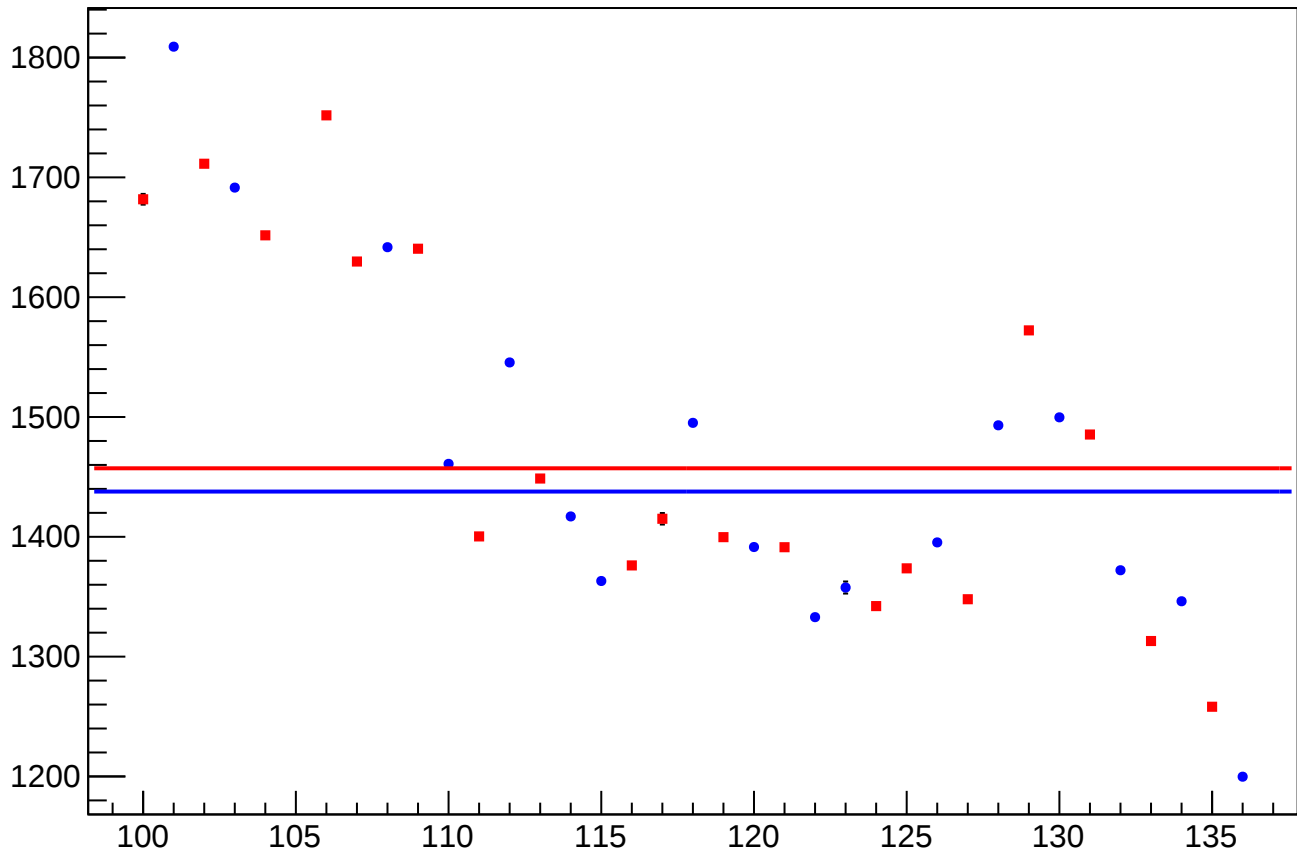
Right Out: 0.479+/-0.554  $\chi^2/\text{NDF}$ : 630.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.055+/-0.562  $\chi^2/\text{NDF}$ : 692.2/16

0.479+/-0.554  $\chi^2/\text{NDF}$ : 630.6/18

# diff\_bpm0l01Y\_rms vs Slug



Right In: 1437.776 $\pm$ 0.397  $\chi^2$ /NDF: 173216.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

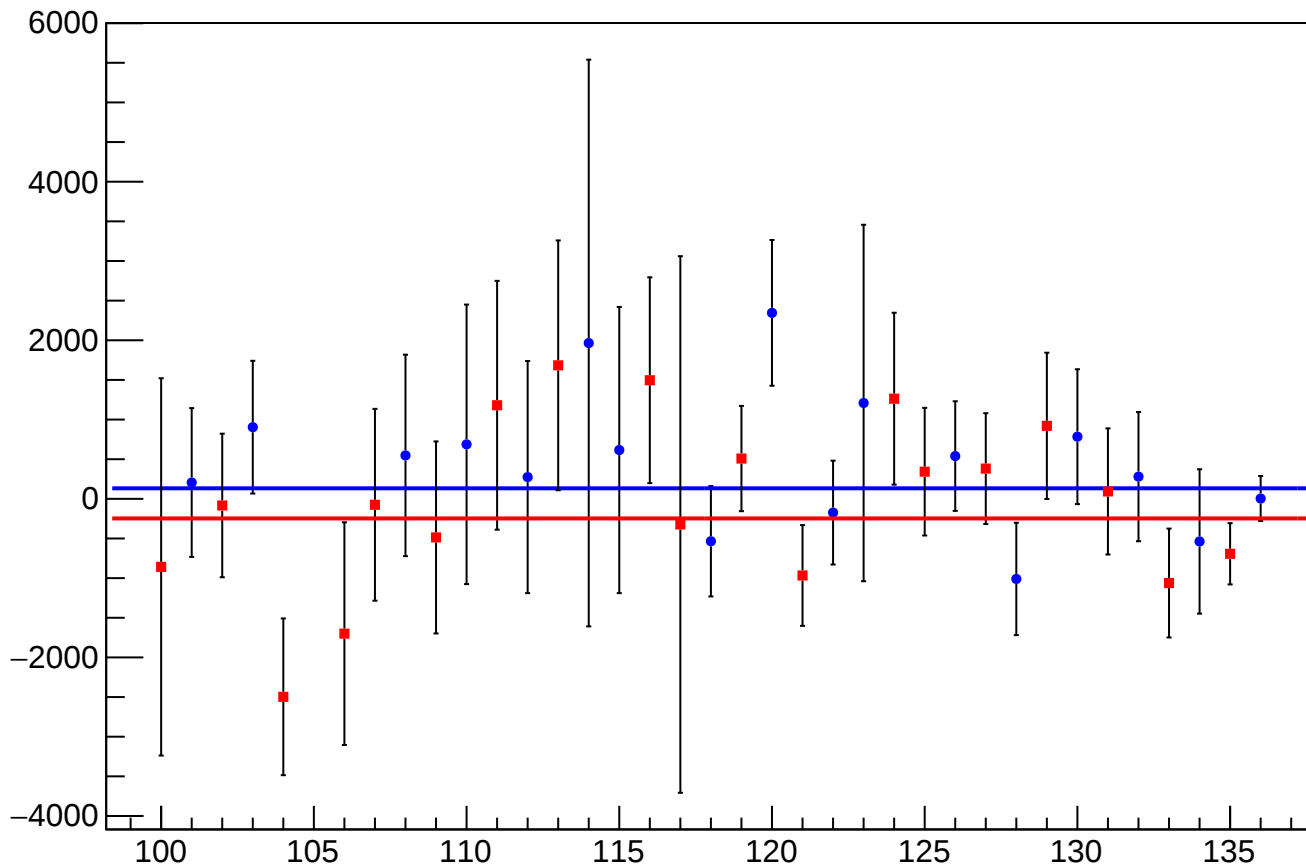
1437.776 $\pm$ 0.397  $\chi^2$ /NDF: 173216.2/16

Right Out: 1457.189 $\pm$ 0.392  $\chi^2$ /NDF: 133739.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1457.189 $\pm$ 0.392  $\chi^2$ /NDF: 133739.8/18

# asym\_sam1\_mean vs Slug



Right In: 132.921+/-180.271  $\chi^2/\text{NDF}$ : 12.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

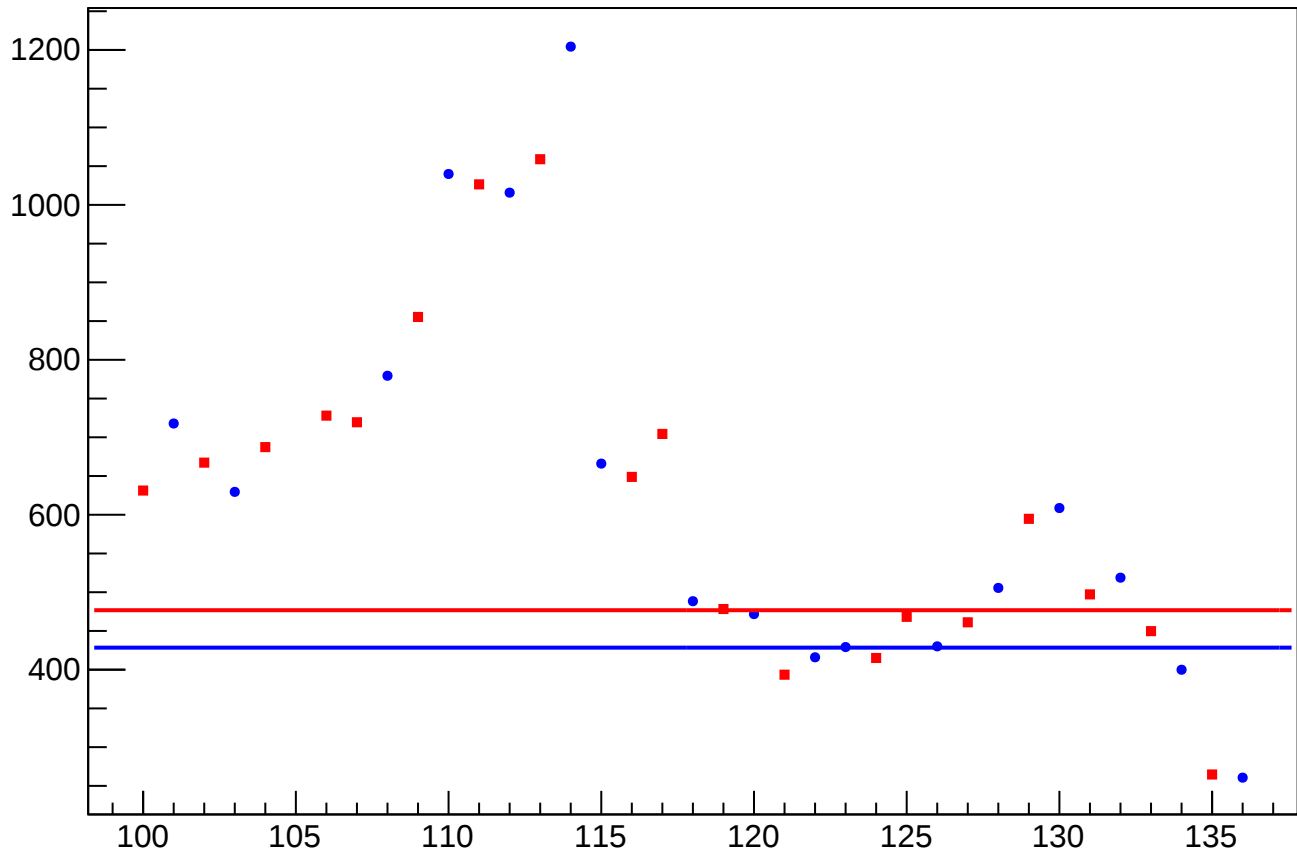
Right Out: -246.900+/-194.104  $\chi^2/\text{NDF}$ : 20.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

132.921+/-180.271  $\chi^2/\text{NDF}$ : 12.9/16

-246.900+/-194.104  $\chi^2/\text{NDF}$ : 20.9/18

# asym\_sam1\_rms vs Slug



Right In: 428.460+/-0.127  $\chi^2/\text{NDF}$ : 2011453.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

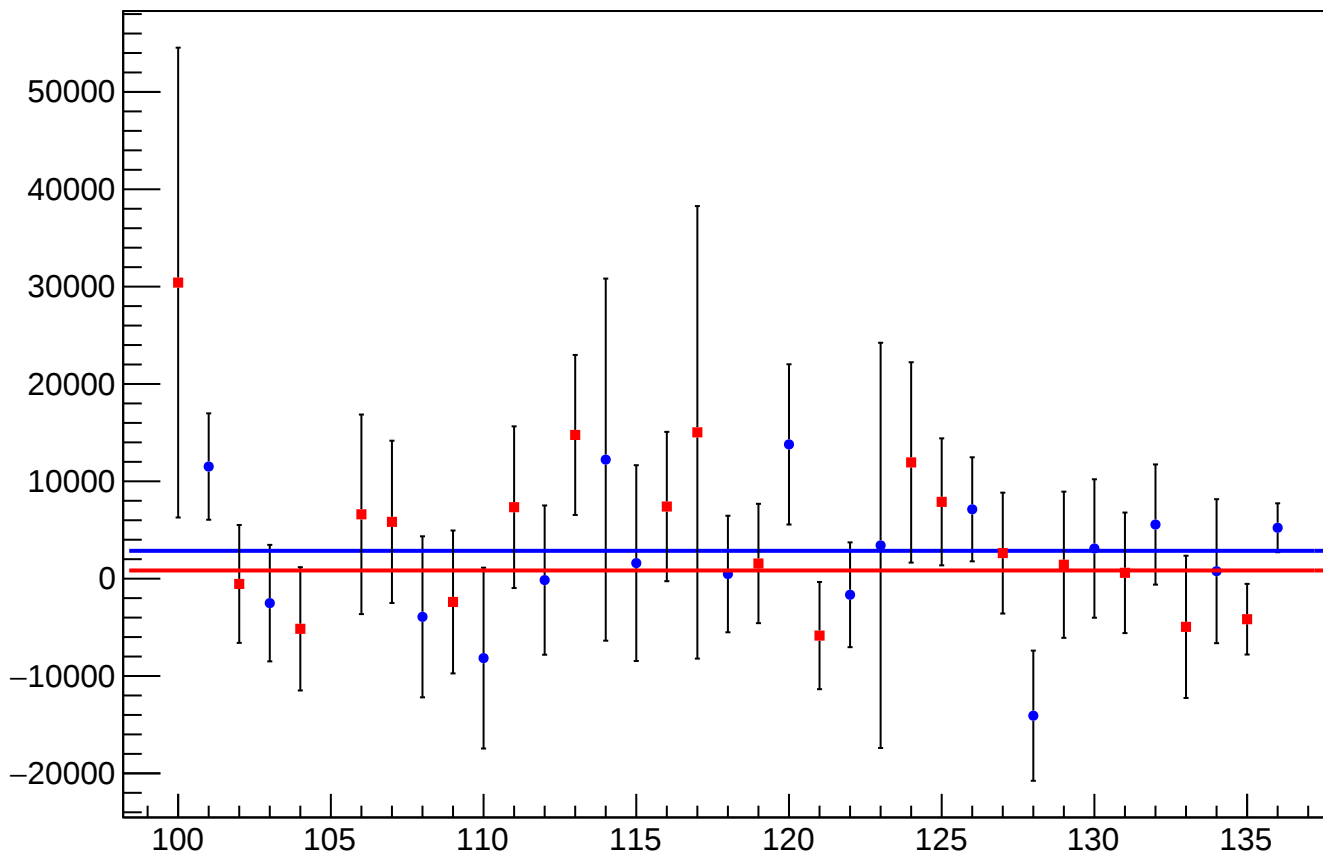
Right Out: 476.761+/-0.137  $\chi^2/\text{NDF}$ : 1771721.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

428.460+/-0.127  $\chi^2/\text{NDF}$ : 2011453.8/16

476.761+/-0.137  $\chi^2/\text{NDF}$ : 1771721.5/18

# asym\_sam2\_mean vs Slug



Right In: 2859.622 $\pm$ 1447.884  $\chi^2$ /NDF: 16.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

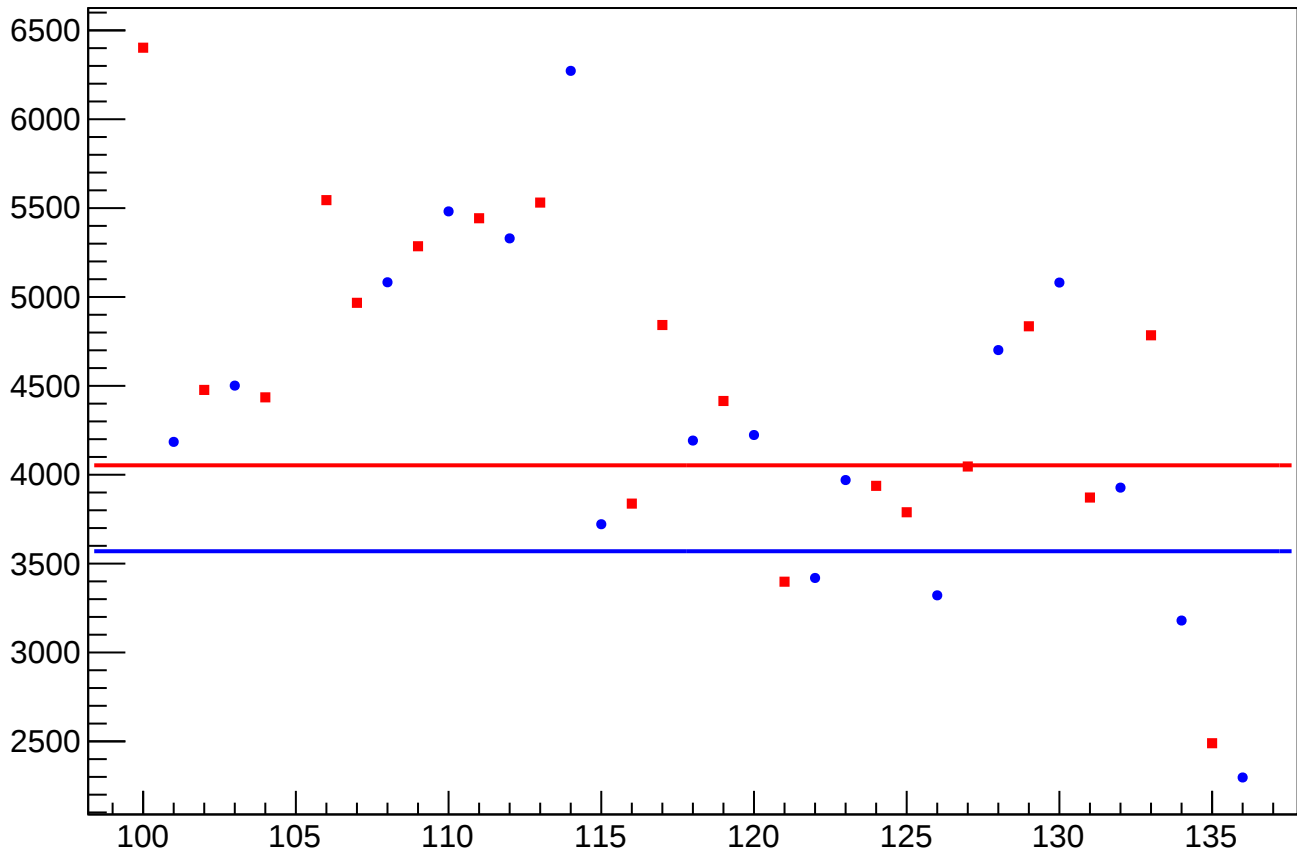
Right Out: 840.871 $\pm$ 1578.277  $\chi^2$ /NDF: 14.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2859.622 $\pm$ 1447.884  $\chi^2$ /NDF: 16.7/16

840.871 $\pm$ 1578.277  $\chi^2$ /NDF: 14.3/18

# asym\_sam2\_rms vs Slug



Right In: 3569.631+/-1.024  $\chi^2/\text{NDF}$ : 1087935.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

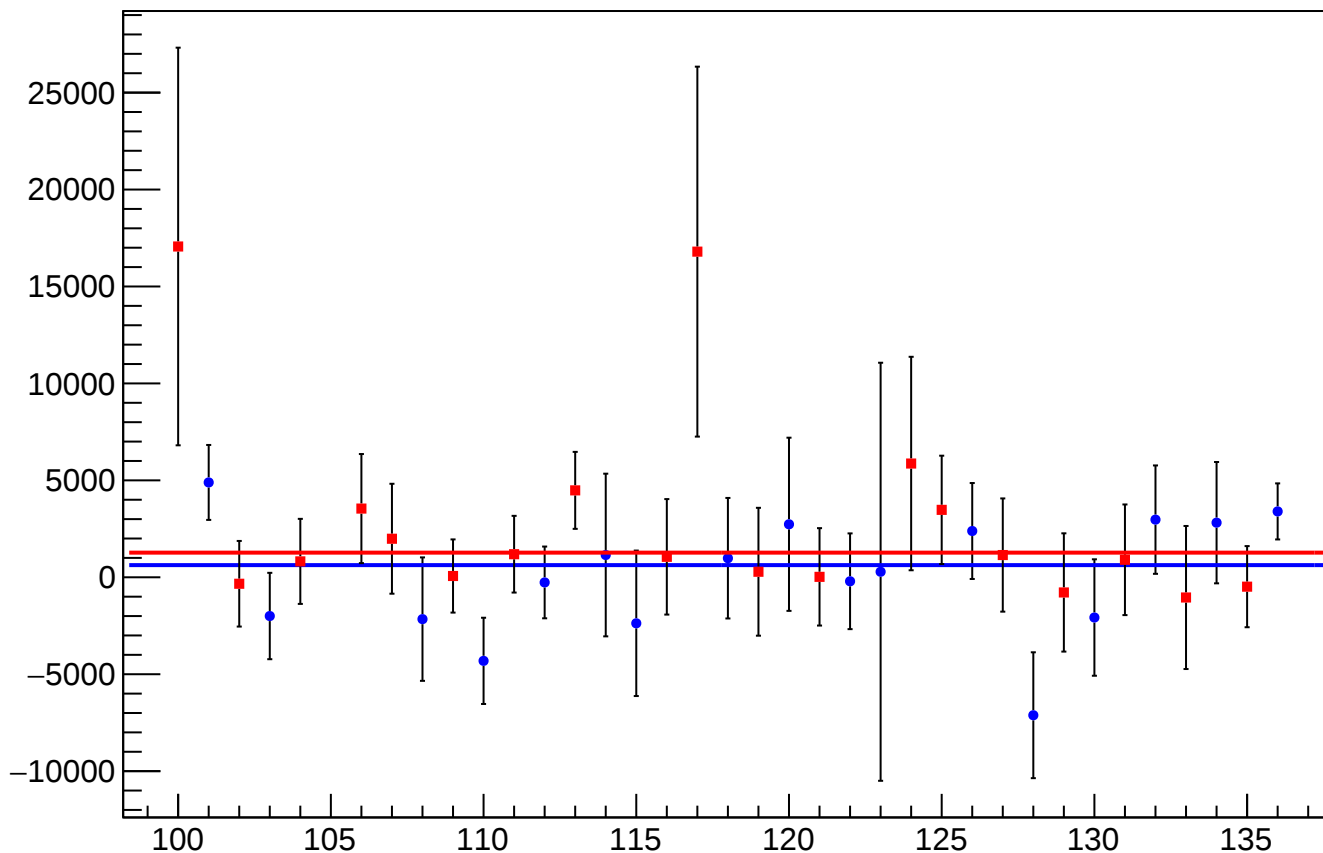
3569.631+/-1.024  $\chi^2/\text{NDF}$ : 1087935.4/16

Right Out: 4052.973+/-1.116  $\chi^2/\text{NDF}$ : 736770.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4052.973+/-1.116  $\chi^2/\text{NDF}$ : 736770.1/18

# asym\_sam3\_mean vs Slug



Right In: 627.655+/-620.929  $\chi^2/\text{NDF}$ : 25.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

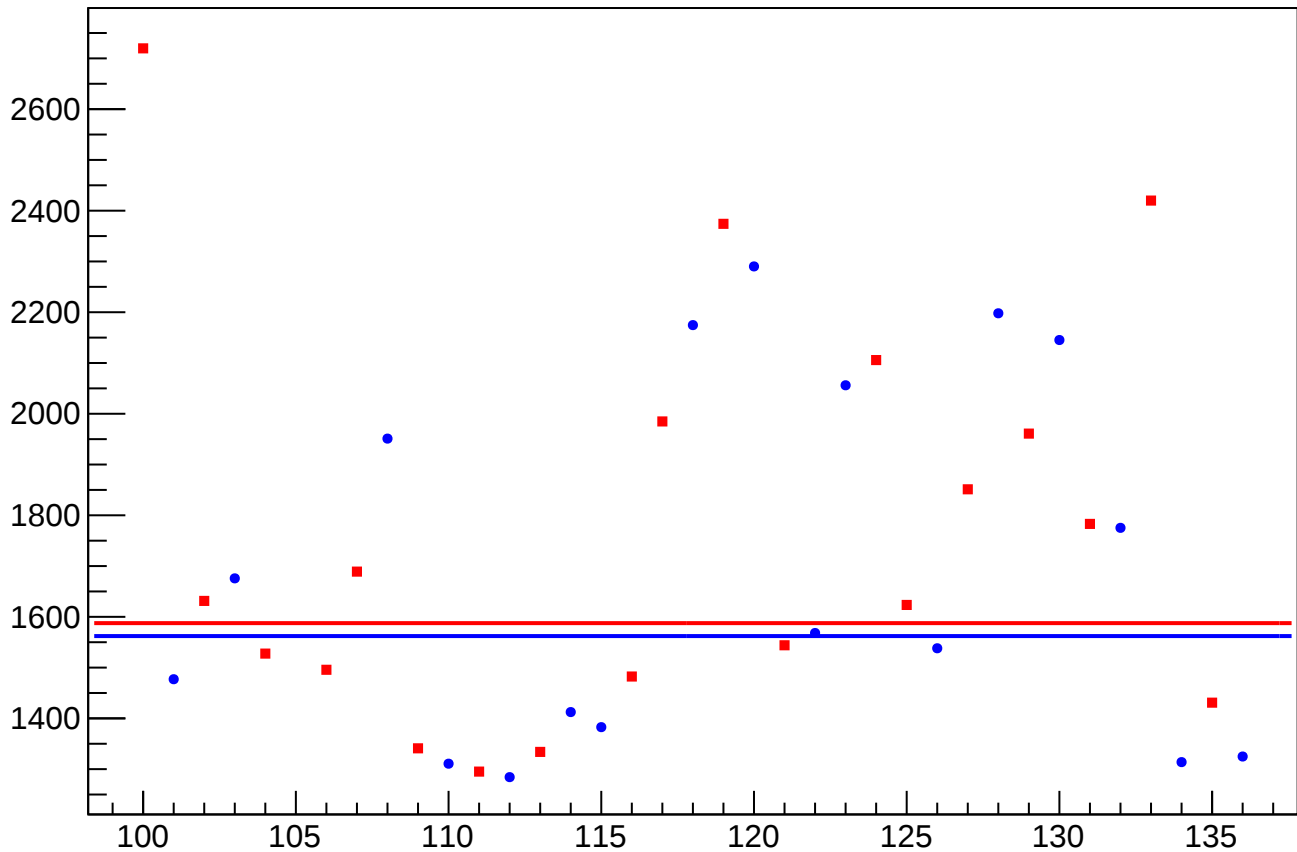
Right Out: 1271.640+/-614.552  $\chi^2/\text{NDF}$ : 12.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

627.655+/-620.929  $\chi^2/\text{NDF}$ : 25.1/16

1271.640+/-614.552  $\chi^2/\text{NDF}$ : 12.6/18

# asym\_sam3\_rms vs Slug



Right In: 1562.101+/-0.439  $\chi^2/\text{NDF}$ : 482088.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

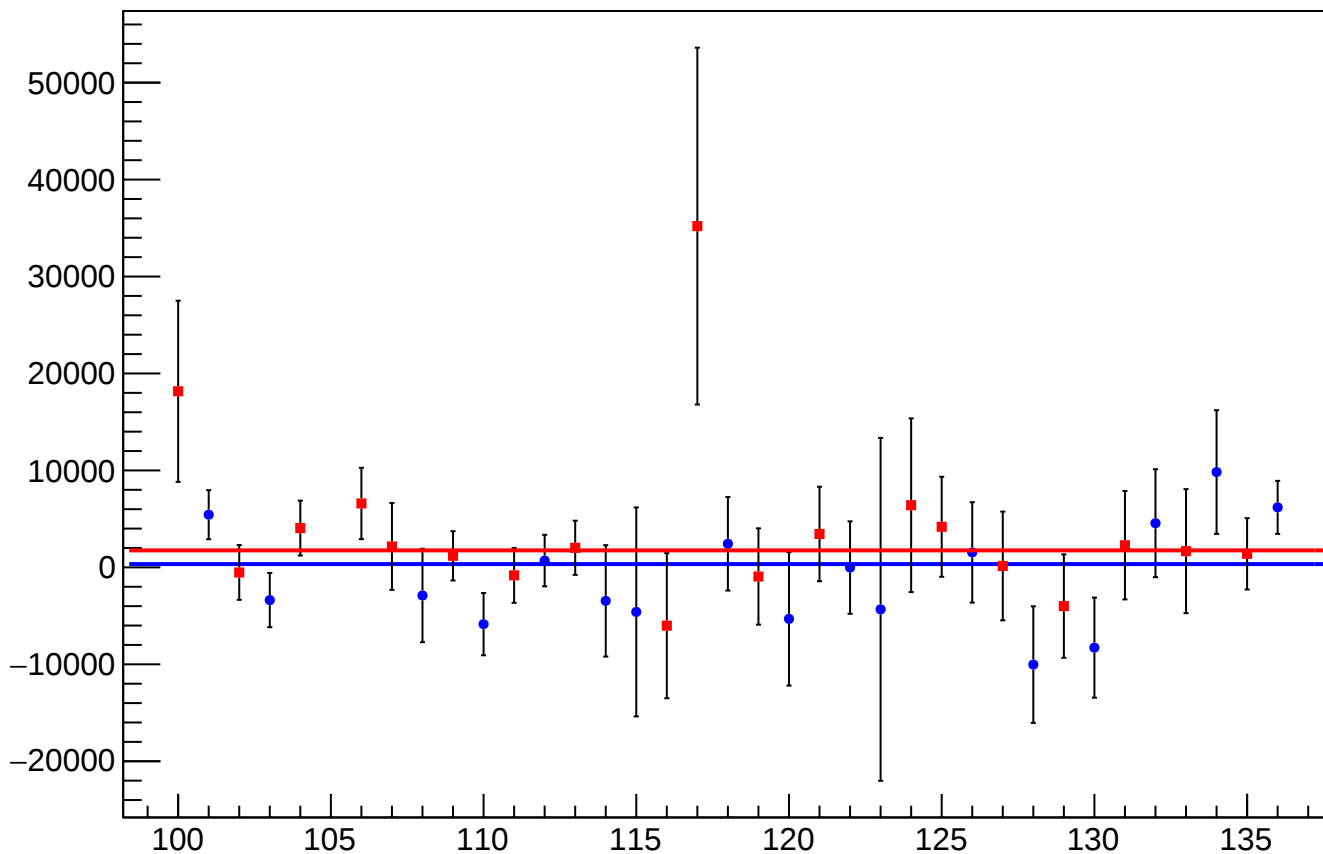
1562.101+/-0.439  $\chi^2/\text{NDF}$ : 482088.3/16

Right Out: 1587.599+/-0.435  $\chi^2/\text{NDF}$ : 448859.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1587.599+/-0.435  $\chi^2/\text{NDF}$ : 448859.3/18

# asym\_sam4\_mean vs Slug



Right In: 338.117+/-995.842  $\chi^2/\text{NDF}$ : 24.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

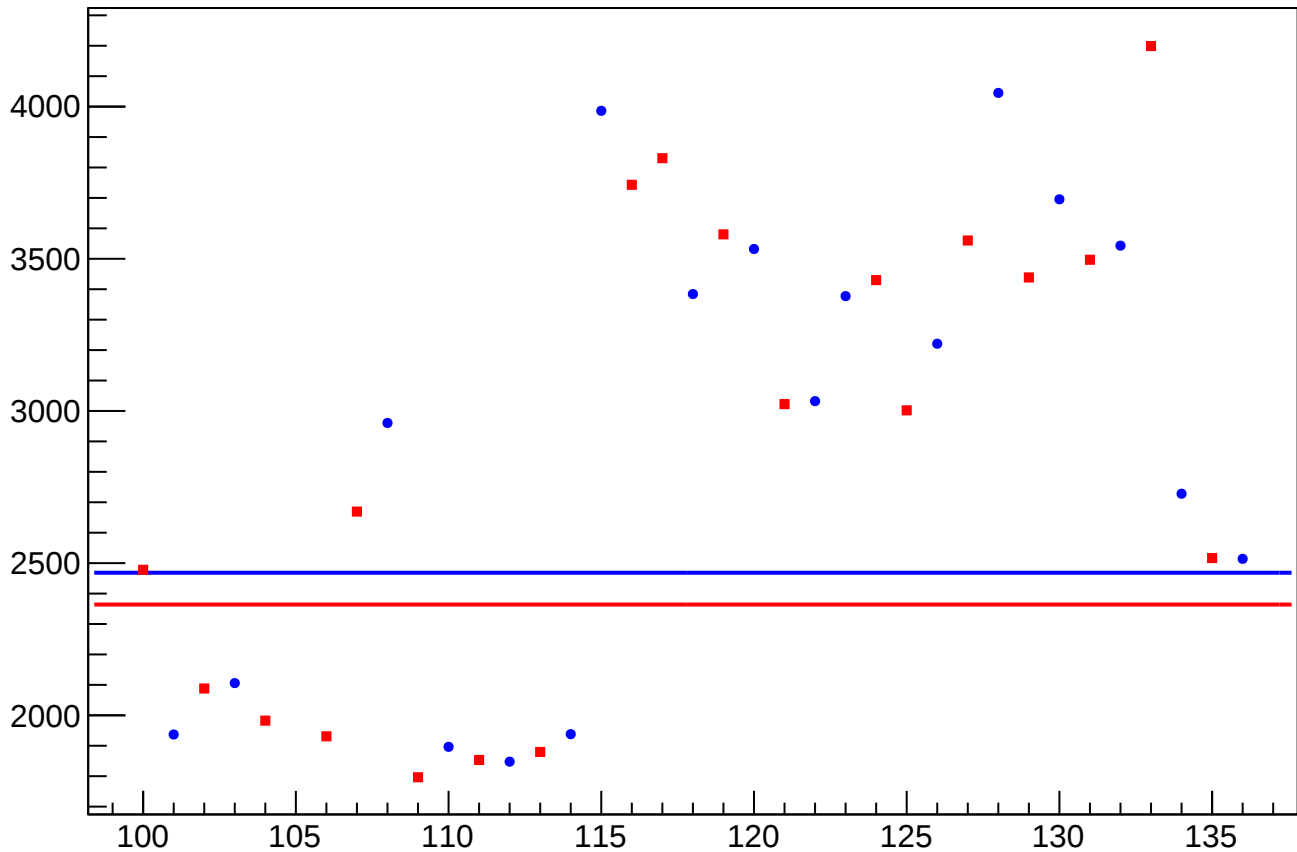
Right Out: 1752.748+/-934.949  $\chi^2/\text{NDF}$ : 13.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

338.117+/-995.842  $\chi^2/\text{NDF}$ : 24.8/16

1752.748+/-934.949  $\chi^2/\text{NDF}$ : 13.6/18

# asym\_sam4\_rms vs Slug



Right In: 2468.489 $\pm$ 0.704  $\chi^2$ /NDF: 896153.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

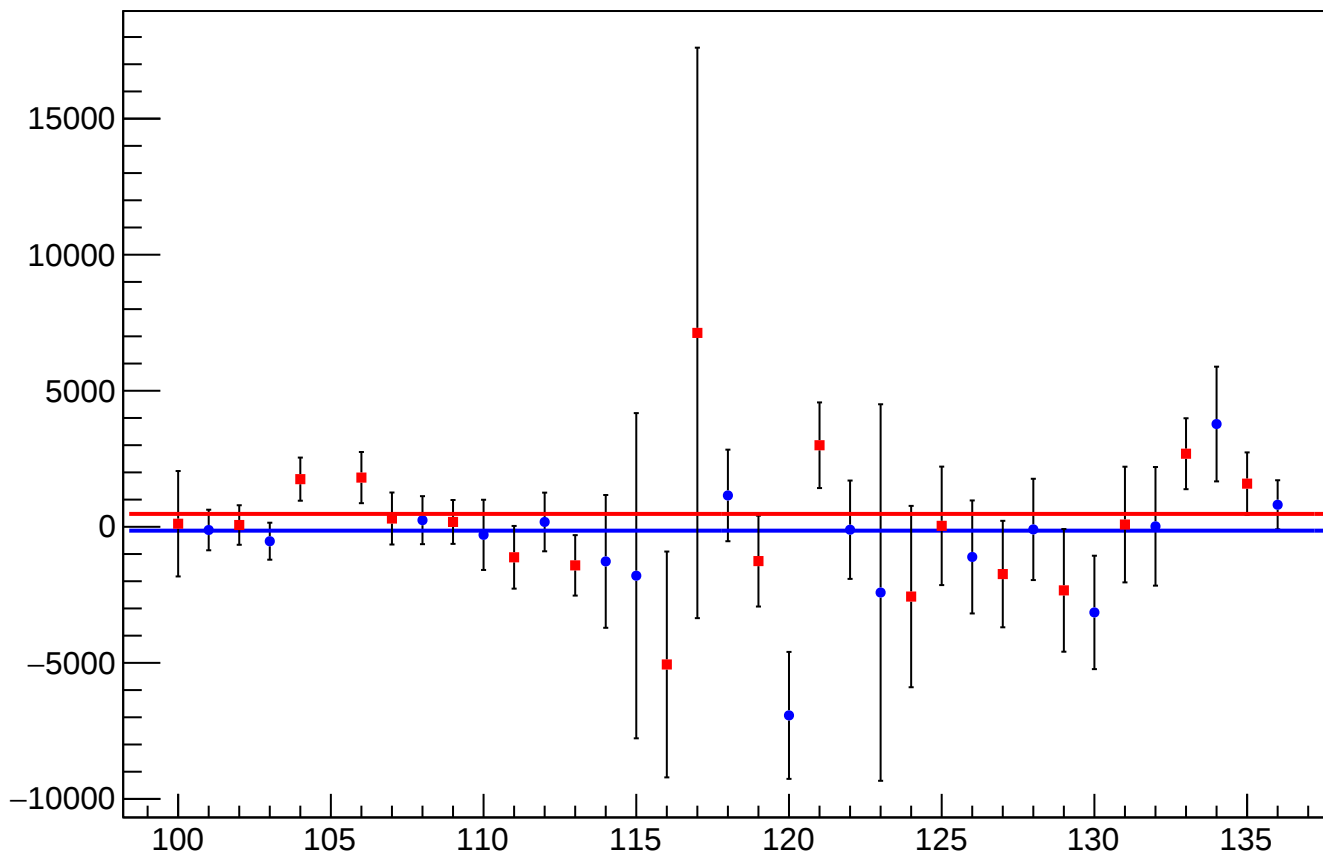
Right Out: 2363.944 $\pm$ 0.661  $\chi^2$ /NDF: 1035878.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2468.489 $\pm$ 0.704  $\chi^2$ /NDF: 896153.6/16

2363.944 $\pm$ 0.661  $\chi^2$ /NDF: 1035878.0/18

# asym\_sam5\_mean vs Slug



Right In: -141.213+/-313.319  $\chi^2/\text{NDF}$ : 16.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

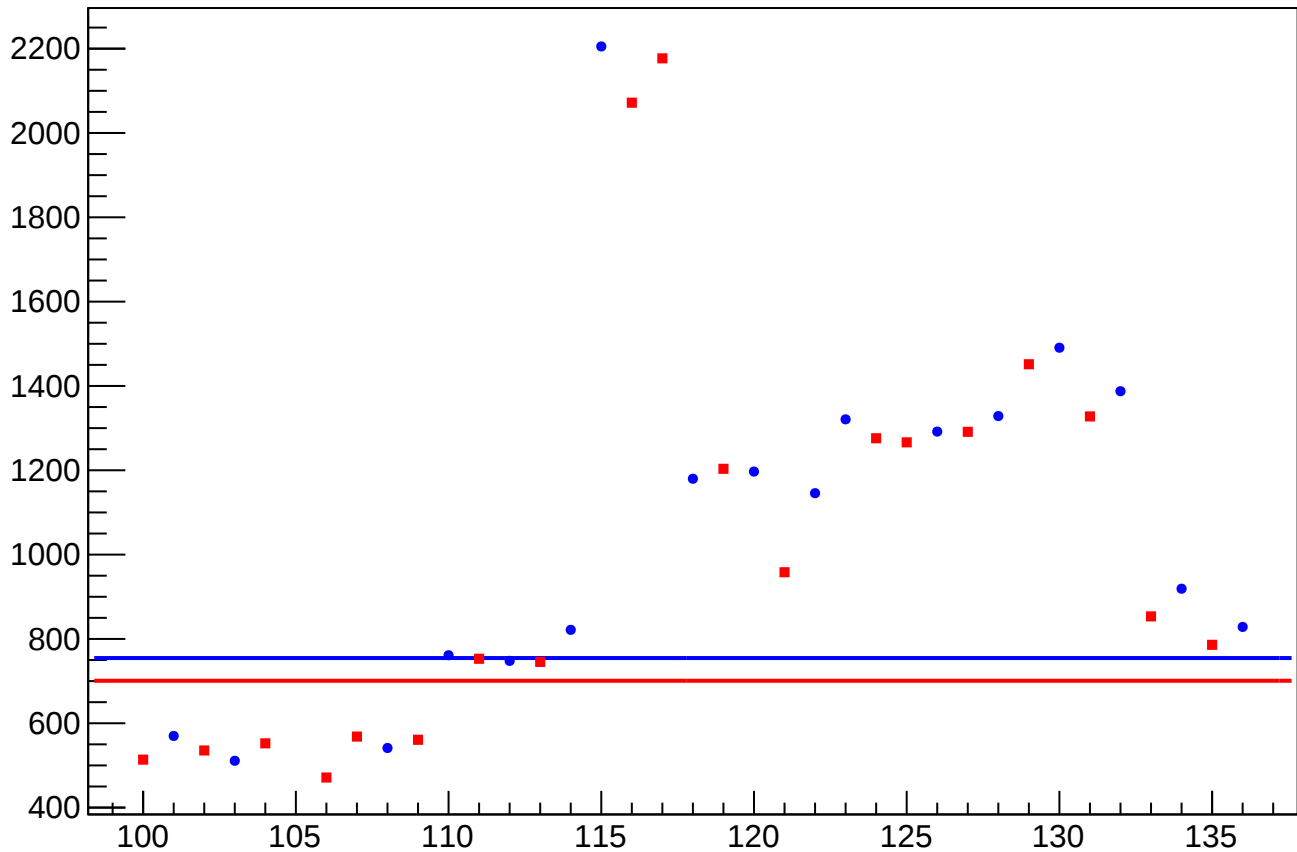
Right Out: 474.245+/-285.855  $\chi^2/\text{NDF}$ : 23.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-141.213+/-313.319  $\chi^2/\text{NDF}$ : 16.9/16

474.245+/-285.855  $\chi^2/\text{NDF}$ : 23.3/18

# asym\_sam5\_rms vs Slug



Right In: 754.684 $\pm$ 0.222  $\chi^2$ /NDF: 1690621.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

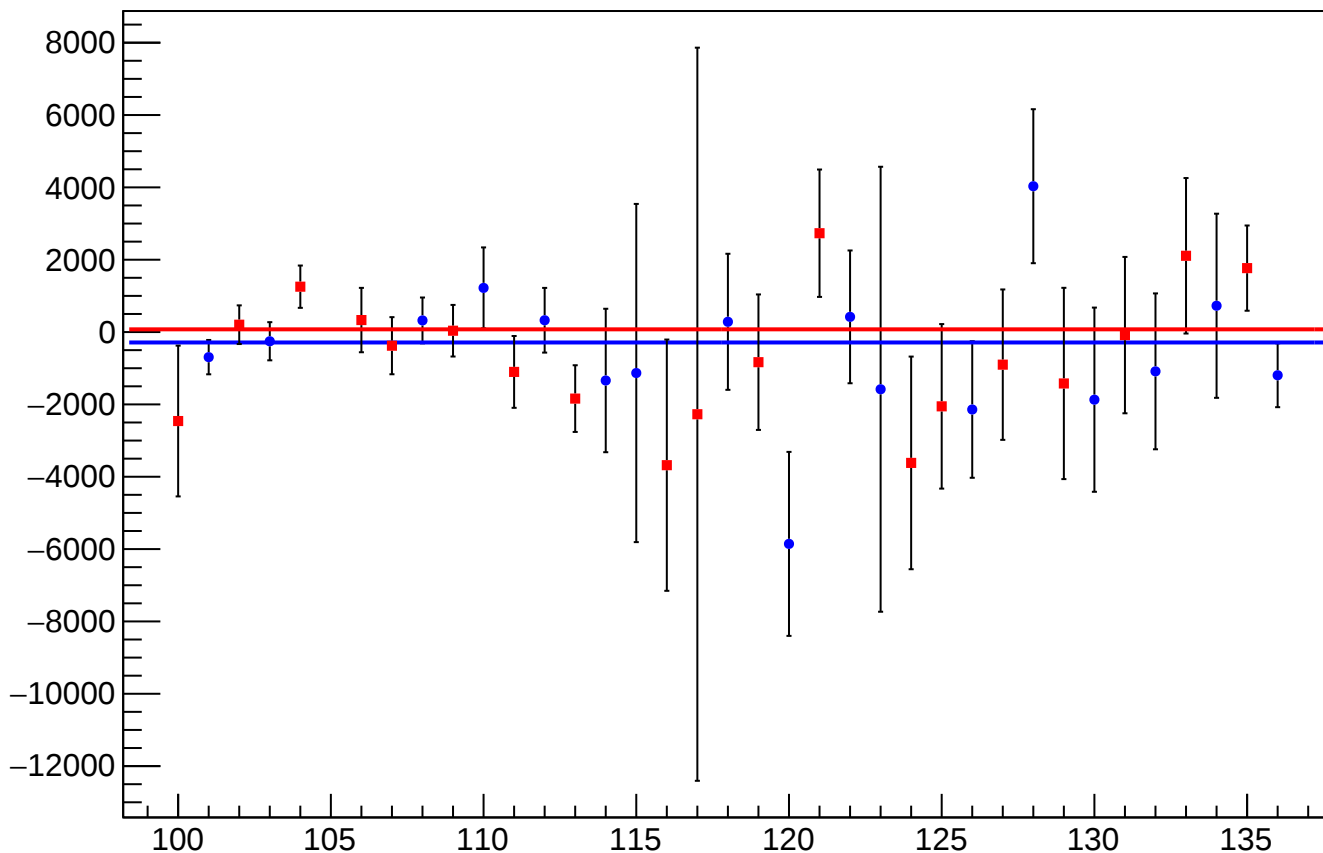
754.684 $\pm$ 0.222  $\chi^2$ /NDF: 1690621.2/16

Right Out: 700.803 $\pm$ 0.202  $\chi^2$ /NDF: 1720866.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

700.803 $\pm$ 0.202  $\chi^2$ /NDF: 1720866.5/18

# asym\_sam6\_mean vs Slug



Right In: -288.037+/-250.436  $\chi^2$ /NDF: 16.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

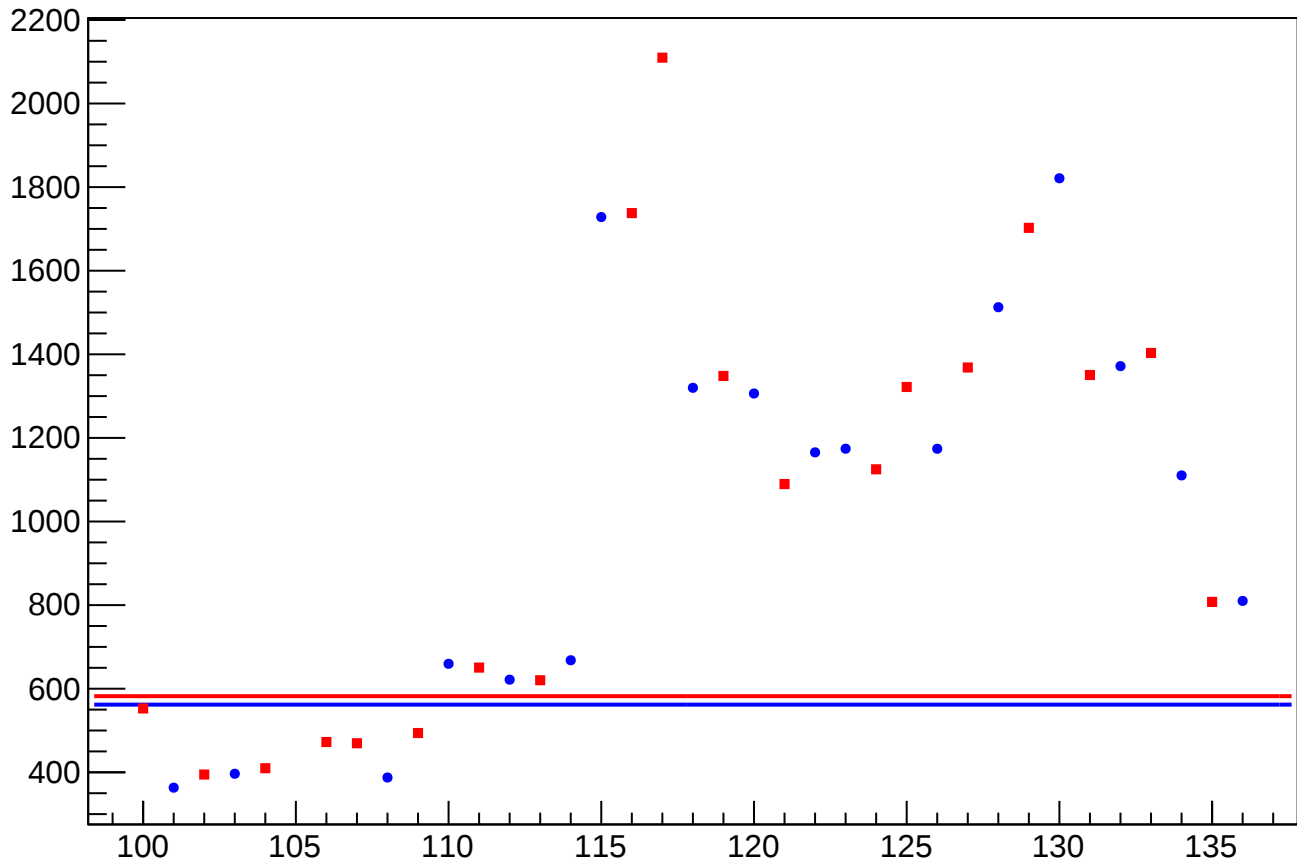
Right Out: 75.260+/-248.338  $\chi^2$ /NDF: 21.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-288.037+/-250.436  $\chi^2$ /NDF: 16.2/16

75.260+/-248.338  $\chi^2$ /NDF: 21.4/18

# asym\_sam6\_rms vs Slug



Right In: 561.894+/-0.177  $\chi^2/\text{NDF}$ : 3216651.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

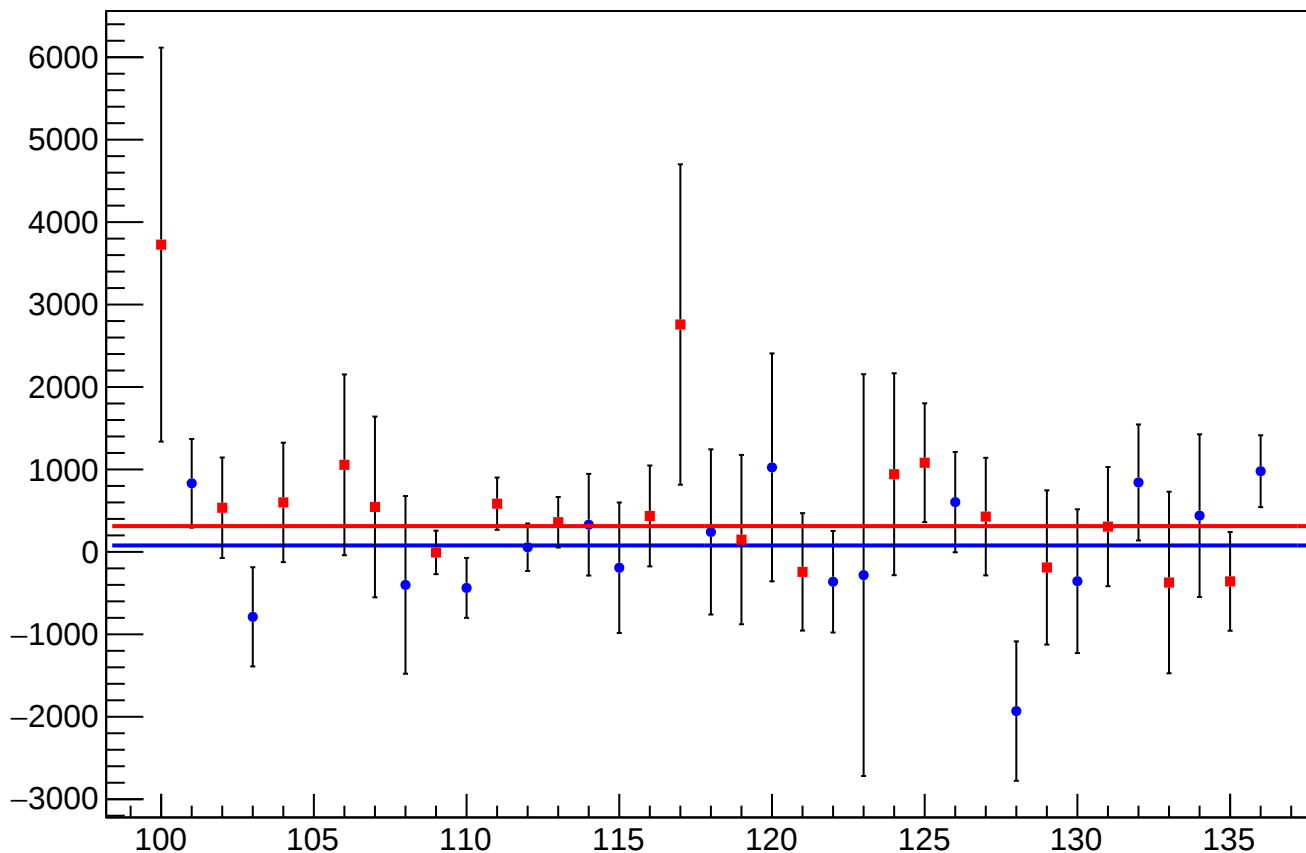
561.894+/-0.177  $\chi^2/\text{NDF}$ : 3216651.3/16

Right Out: 582.144+/-0.176  $\chi^2/\text{NDF}$ : 2845283.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

582.144+/-0.176  $\chi^2/\text{NDF}$ : 2845283.6/18

# asym\_sam7\_mean vs Slug



Right In: 78.184+/-142.869  $\chi^2$ /NDF: 19.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

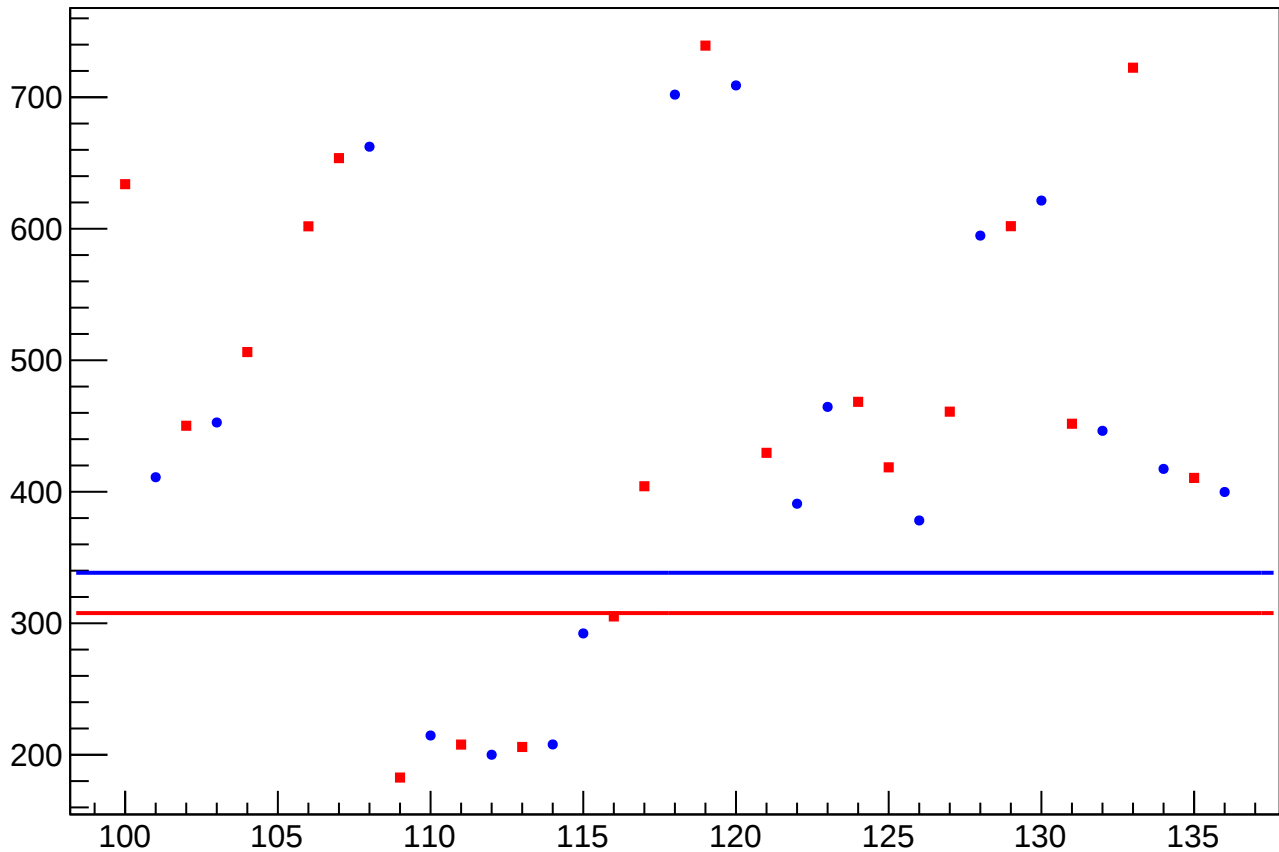
Right Out: 312.823+/-130.703  $\chi^2$ /NDF: 10.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

78.184+/-142.869  $\chi^2$ /NDF: 19.8/16

312.823+/-130.703  $\chi^2$ /NDF: 10.7/18

# asym\_sam7\_rms vs Slug



Right In: 338.408 $\pm$ 0.101  $\chi^2$ /NDF: 2009287.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

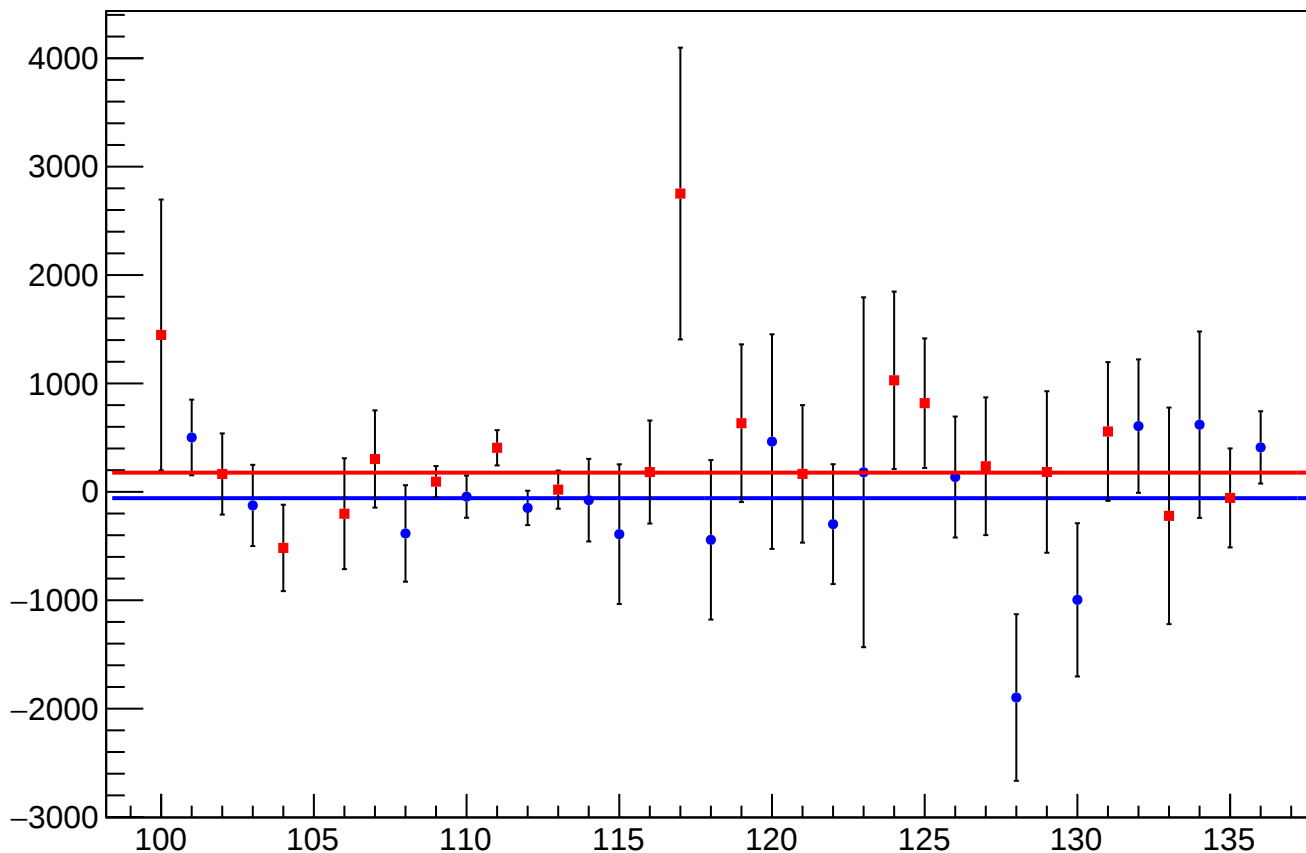
338.408 $\pm$ 0.101  $\chi^2$ /NDF: 2009287.1/16

Right Out: 307.758 $\pm$ 0.092  $\chi^2$ /NDF: 2720788.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

307.758 $\pm$ 0.092  $\chi^2$ /NDF: 2720788.5/18

# asym\_sam8\_mean vs Slug



Right In: -58.299+/-90.484  $\chi^2$ /NDF: 15.9/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

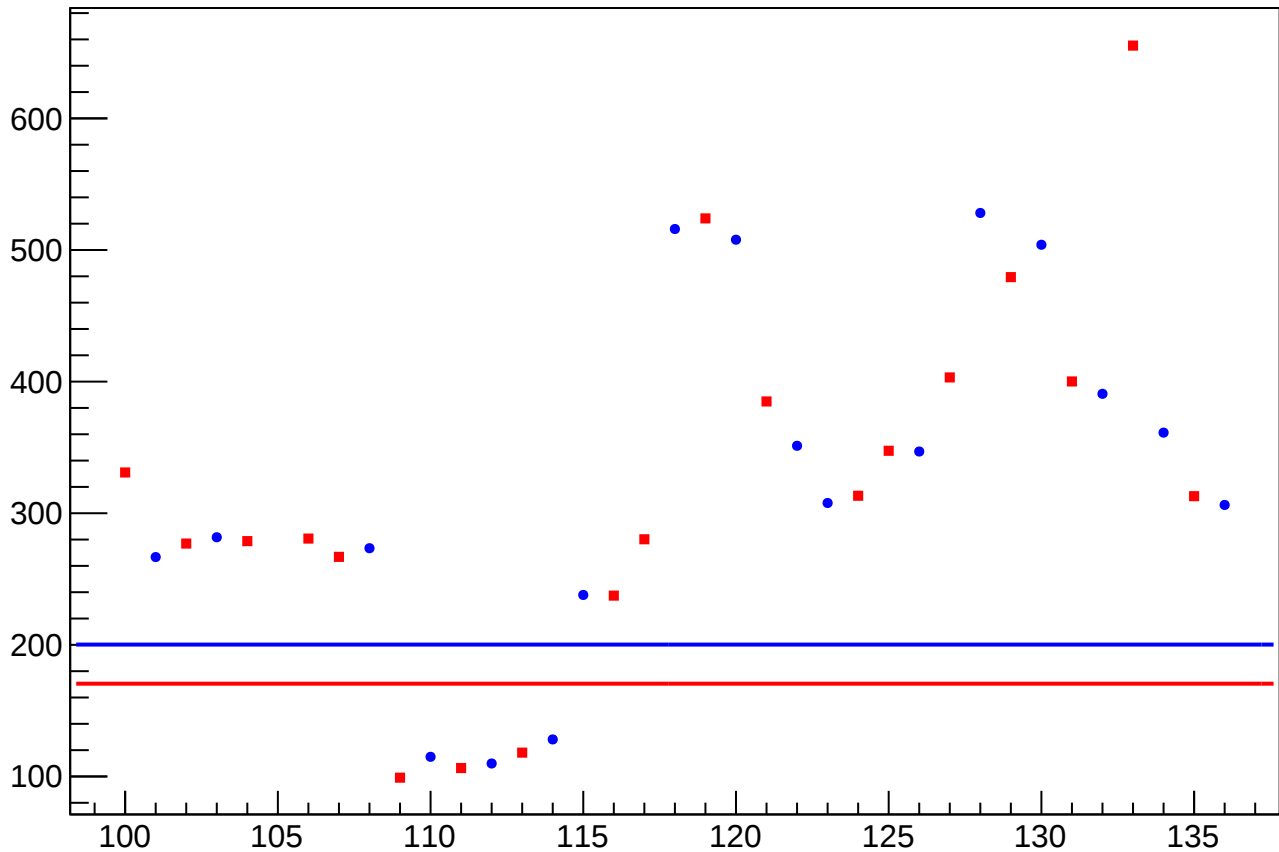
Right Out: 177.263+/-77.257  $\chi^2$ /NDF: 14.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-58.299+/-90.484  $\chi^2$ /NDF: 15.9/16

177.263+/-77.257  $\chi^2$ /NDF: 14.9/18

# asym\_sam8\_rms vs Slug



Right In: 200.209+/-0.064  $\chi^2/\text{NDF}$ : 3387197.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

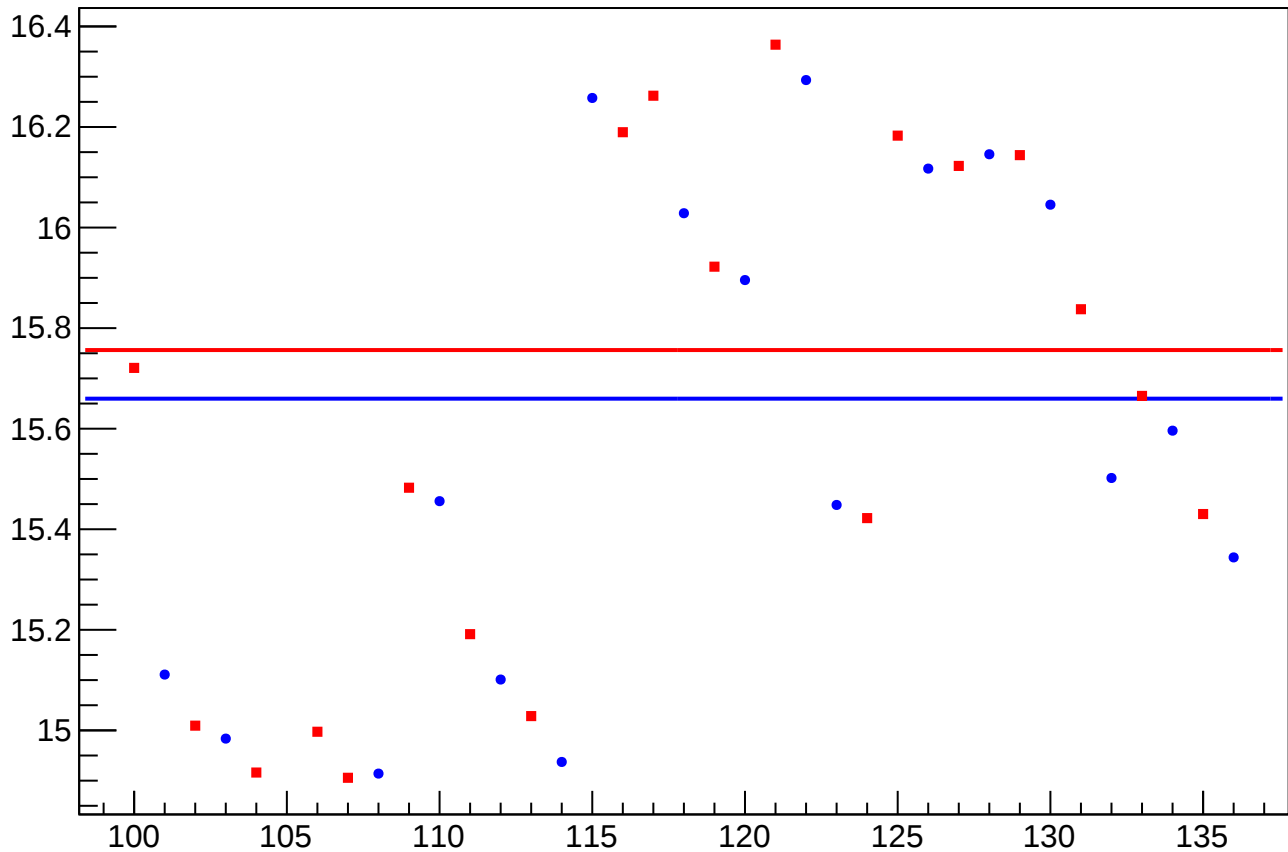
200.209+/-0.064  $\chi^2/\text{NDF}$ : 3387197.7/16

Right Out: 170.501+/-0.055  $\chi^2/\text{NDF}$ : 4034203.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

170.501+/-0.055  $\chi^2/\text{NDF}$ : 4034203.9/18

# yield\_sam1\_mean vs Slug



Right In: 15.660+/-0.000  $\chi^2/\text{NDF}$ : 5782644553.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

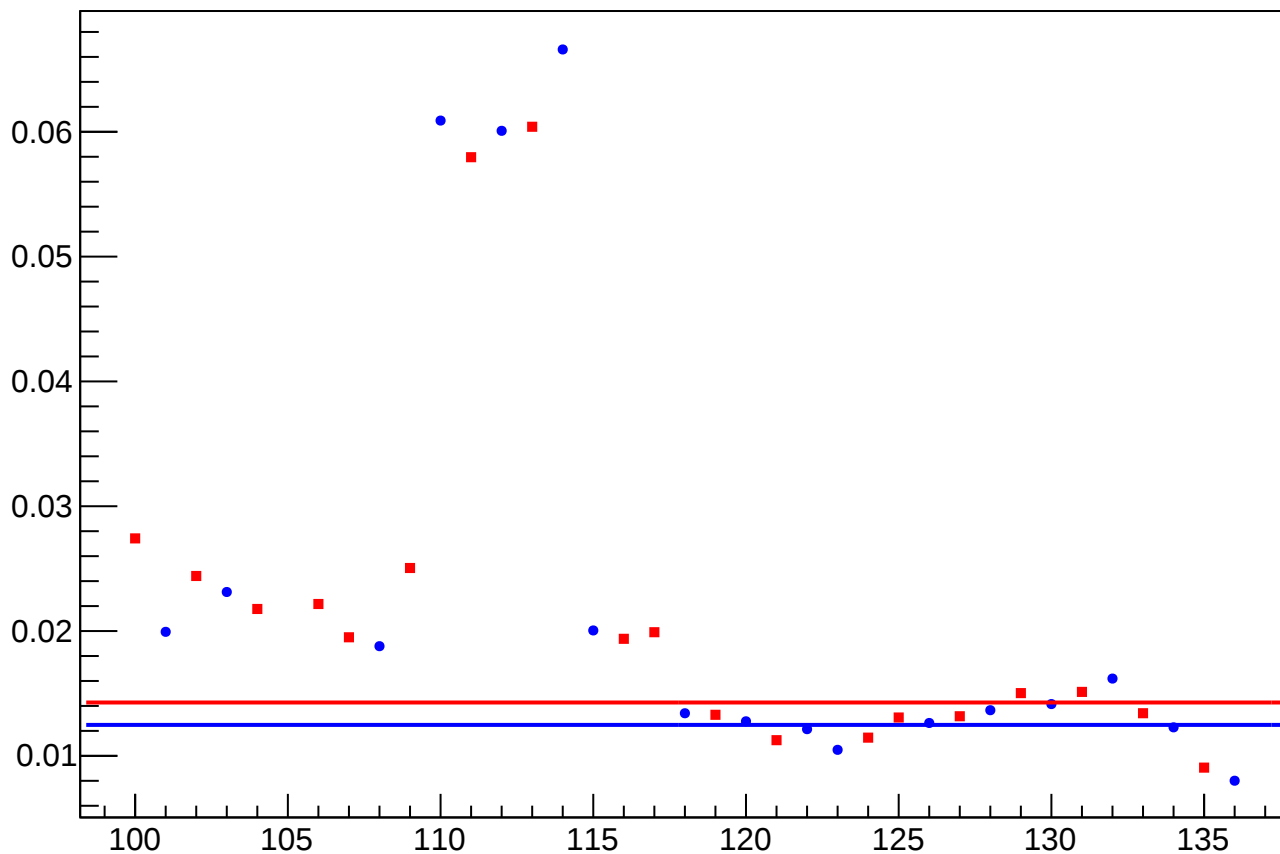
Right Out: 15.756+/-0.000  $\chi^2/\text{NDF}$ : 5049355849.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

15.660+/-0.000  $\chi^2/\text{NDF}$ : 5782644553.5/16

15.756+/-0.000  $\chi^2/\text{NDF}$ : 5049355849.6/18

# yield\_sam1\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 2152911.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

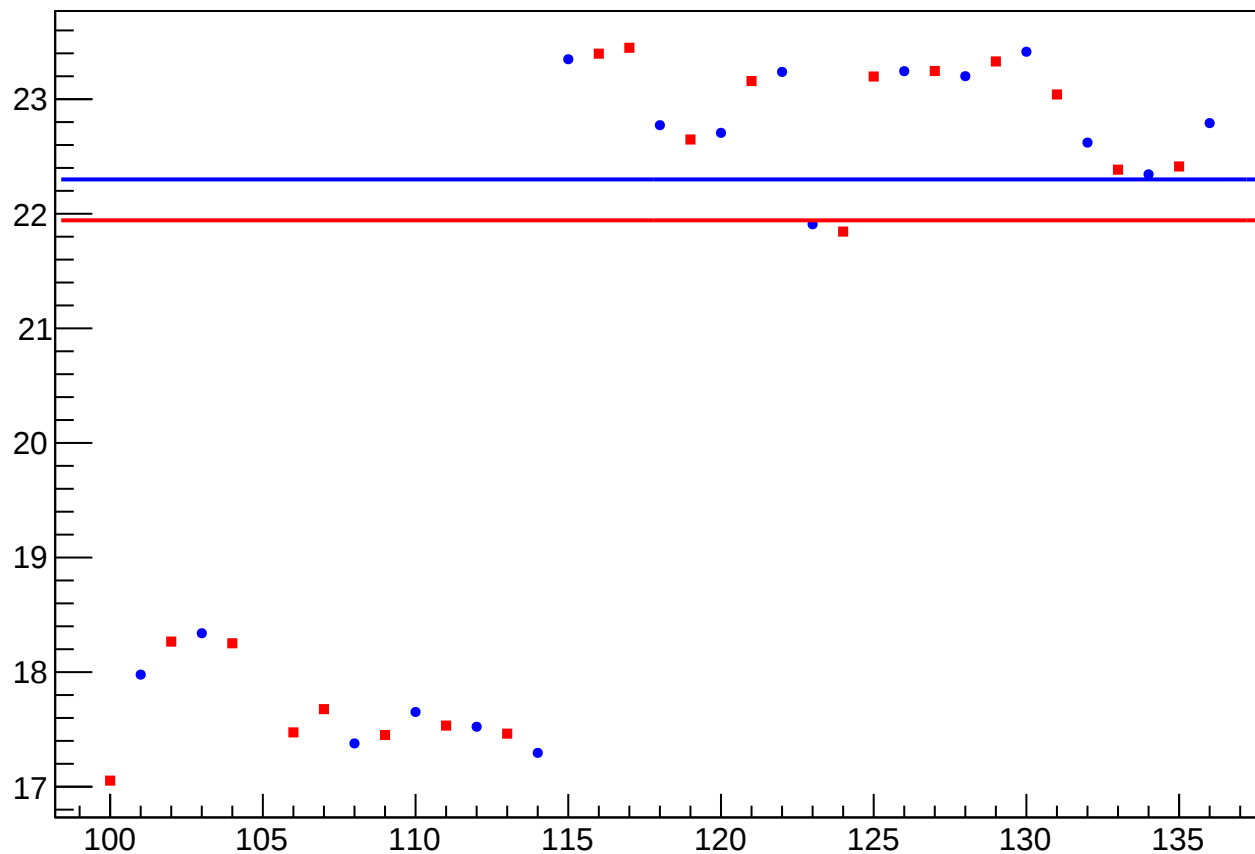
Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1920026.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.012+/-0.000  $\chi^2/\text{NDF}$ : 2152911.4/16

0.014+/-0.000  $\chi^2/\text{NDF}$ : 1920026.4/18

# yield\_sam2\_mean vs Slug



Right In: 22.300+/-0.000  $\chi^2/\text{NDF}$ : 938398636.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

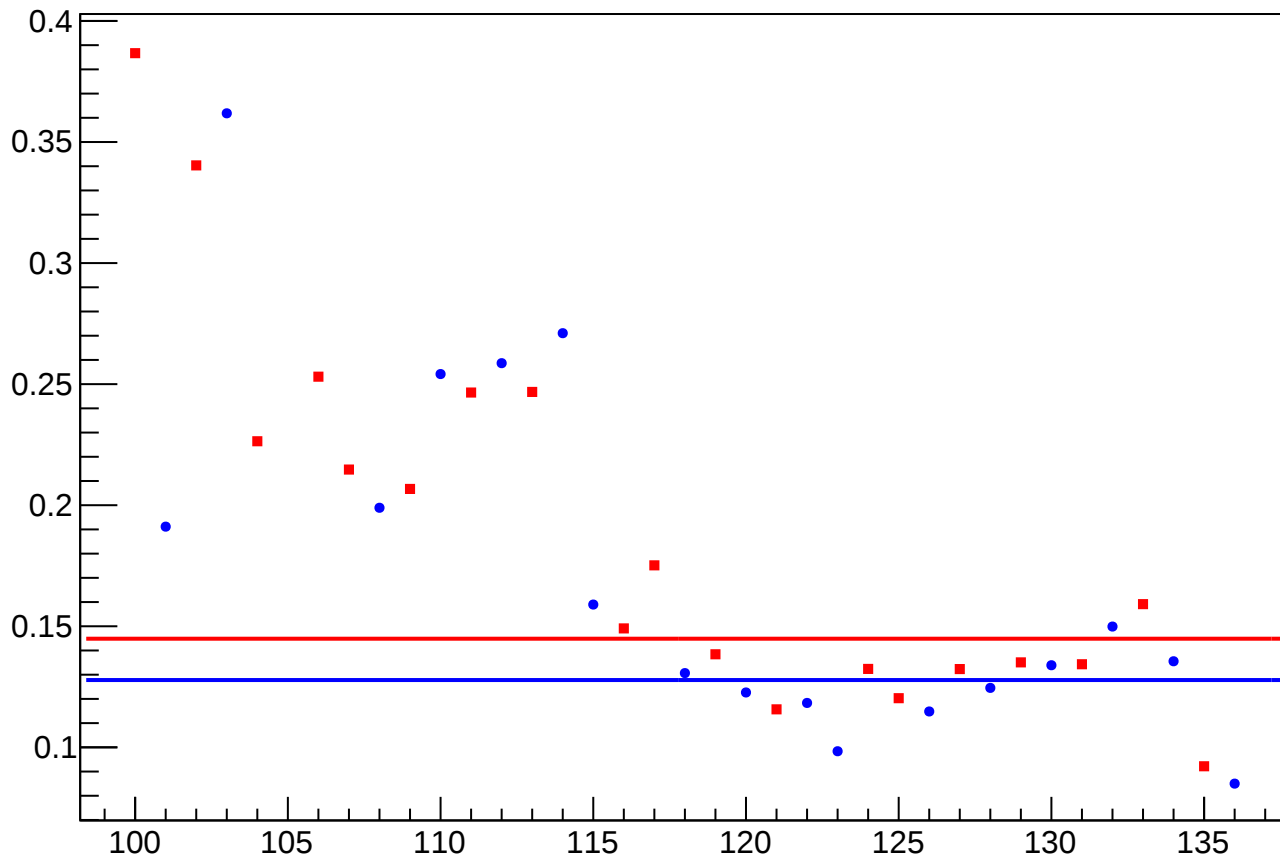
Right Out: 21.943+/-0.000  $\chi^2/\text{NDF}$ : 1052683781.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

22.300+/-0.000  $\chi^2/\text{NDF}$ : 938398636.8/16

21.943+/-0.000  $\chi^2/\text{NDF}$ : 1052683781.5/18

# yield\_sam2\_rms vs Slug



Right In: 0.128+/-0.000  $\chi^2/\text{NDF}$ : 1492109.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

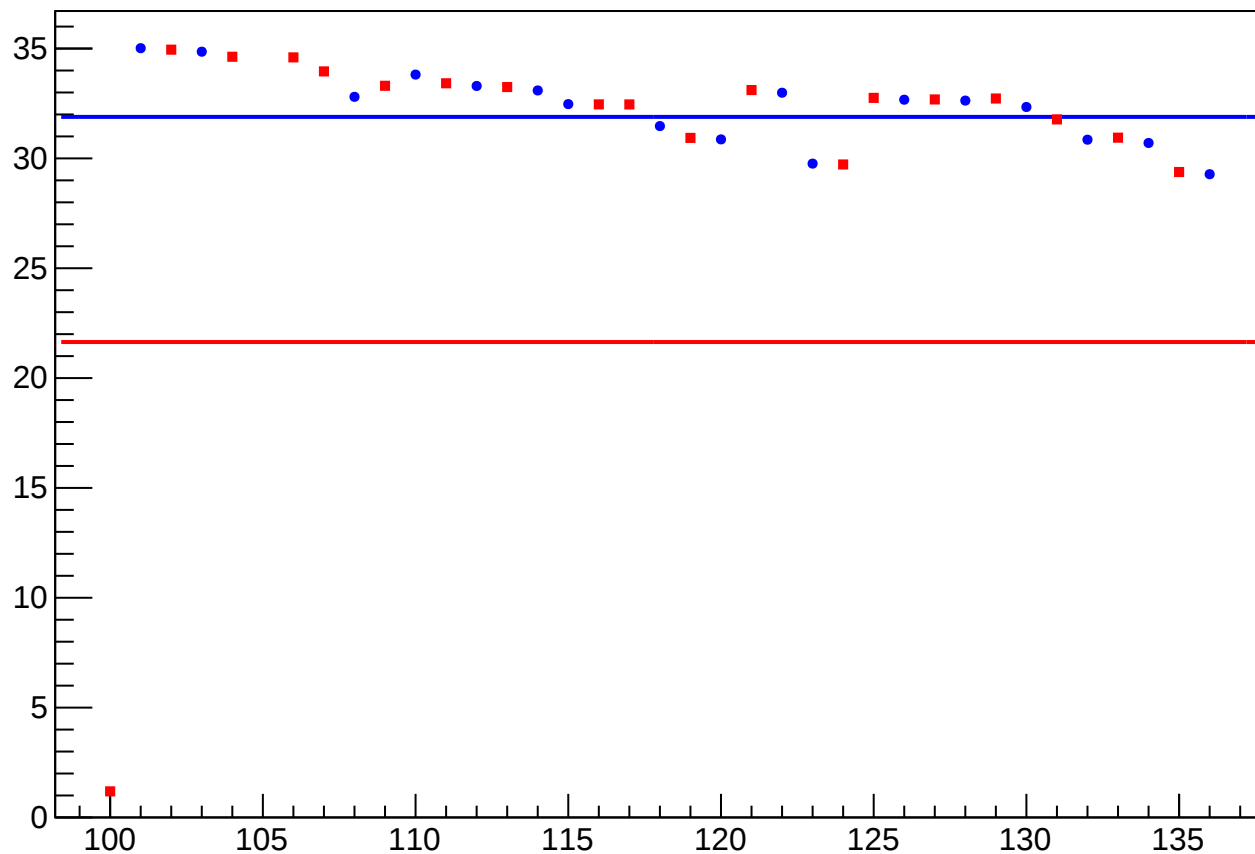
Right Out: 0.145+/-0.000  $\chi^2/\text{NDF}$ : 1364010.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.128+/-0.000  $\chi^2/\text{NDF}$ : 1492109.7/16

0.145+/-0.000  $\chi^2/\text{NDF}$ : 1364010.9/18

# yield\_sam3\_mean vs Slug



Right In: 31.889+/-0.000  $\chi^2/\text{NDF}$ : 1930403776.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

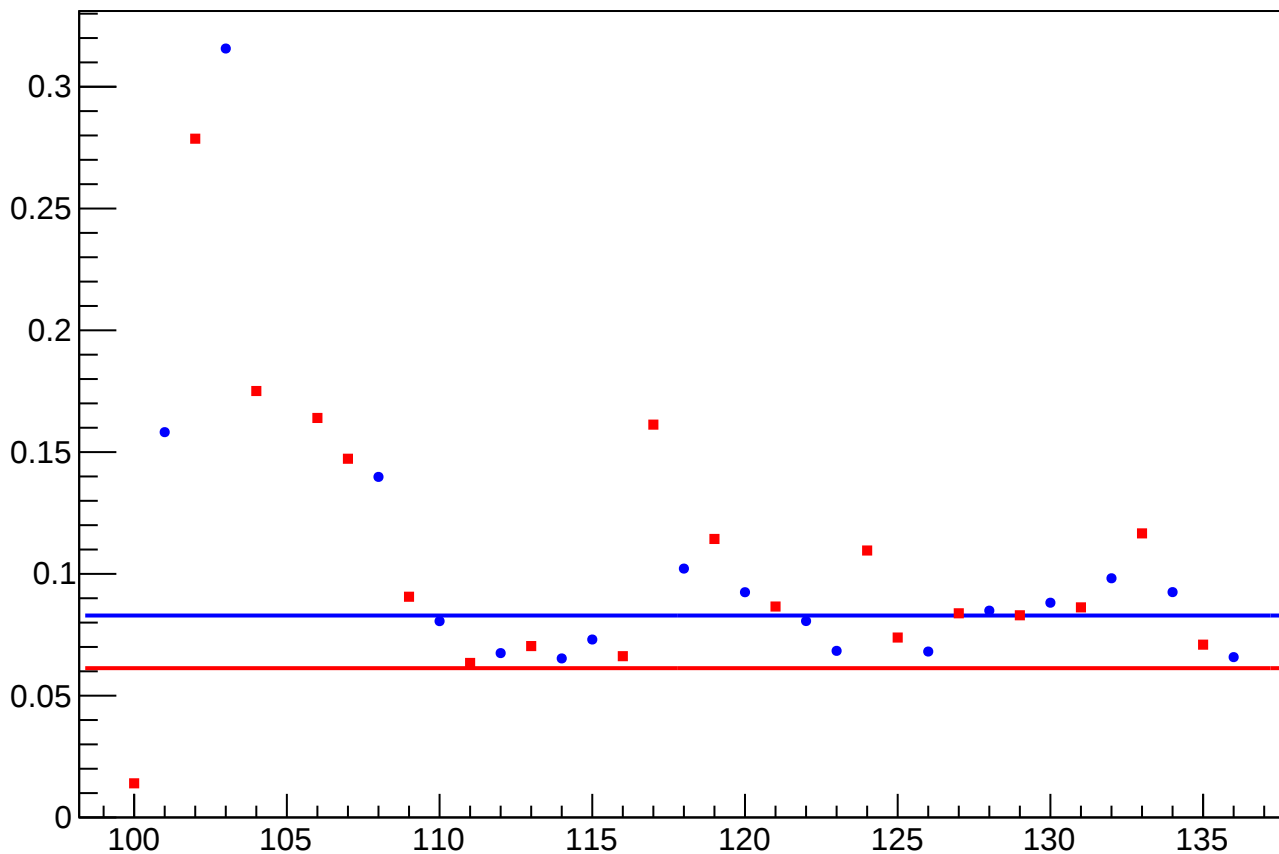
Right Out: 21.641+/-0.000  $\chi^2/\text{NDF}$ : 228358979725.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

31.889+/-0.000  $\chi^2/\text{NDF}$ : 1930403776.3/16

21.641+/-0.000  $\chi^2/\text{NDF}$ : 228358979725.5/18

# yield\_sam3\_rms vs Slug



Right In: 0.083+/-0.000  $\chi^2/\text{NDF}$ : 1164452.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

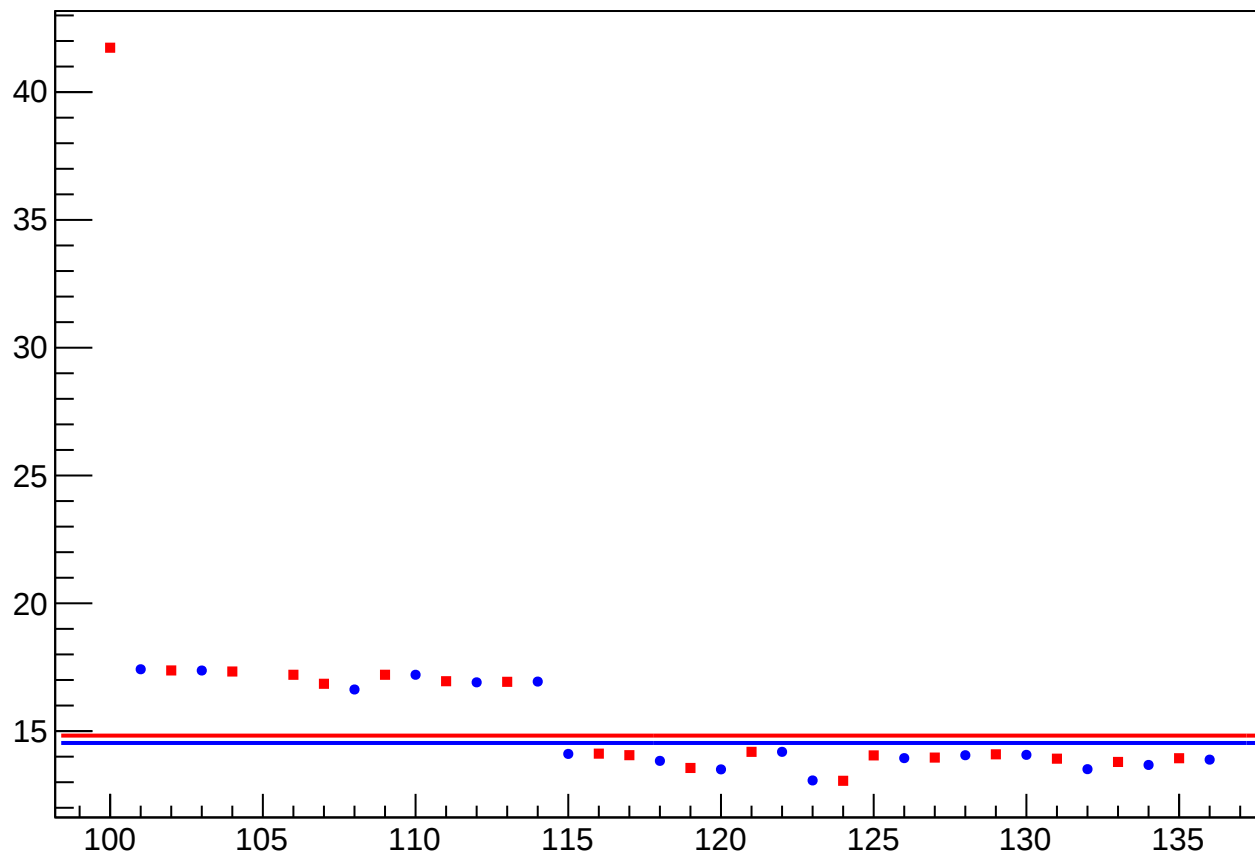
Right Out: 0.061+/-0.000  $\chi^2/\text{NDF}$ : 3634226.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.083+/-0.000  $\chi^2/\text{NDF}$ : 1164452.3/16

0.061+/-0.000  $\chi^2/\text{NDF}$ : 3634226.0/18

yield\_sam4\_mean vs Slug



Right In: 14.536+/-0.000  $\chi^2/\text{NDF}$ : 1470499792.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

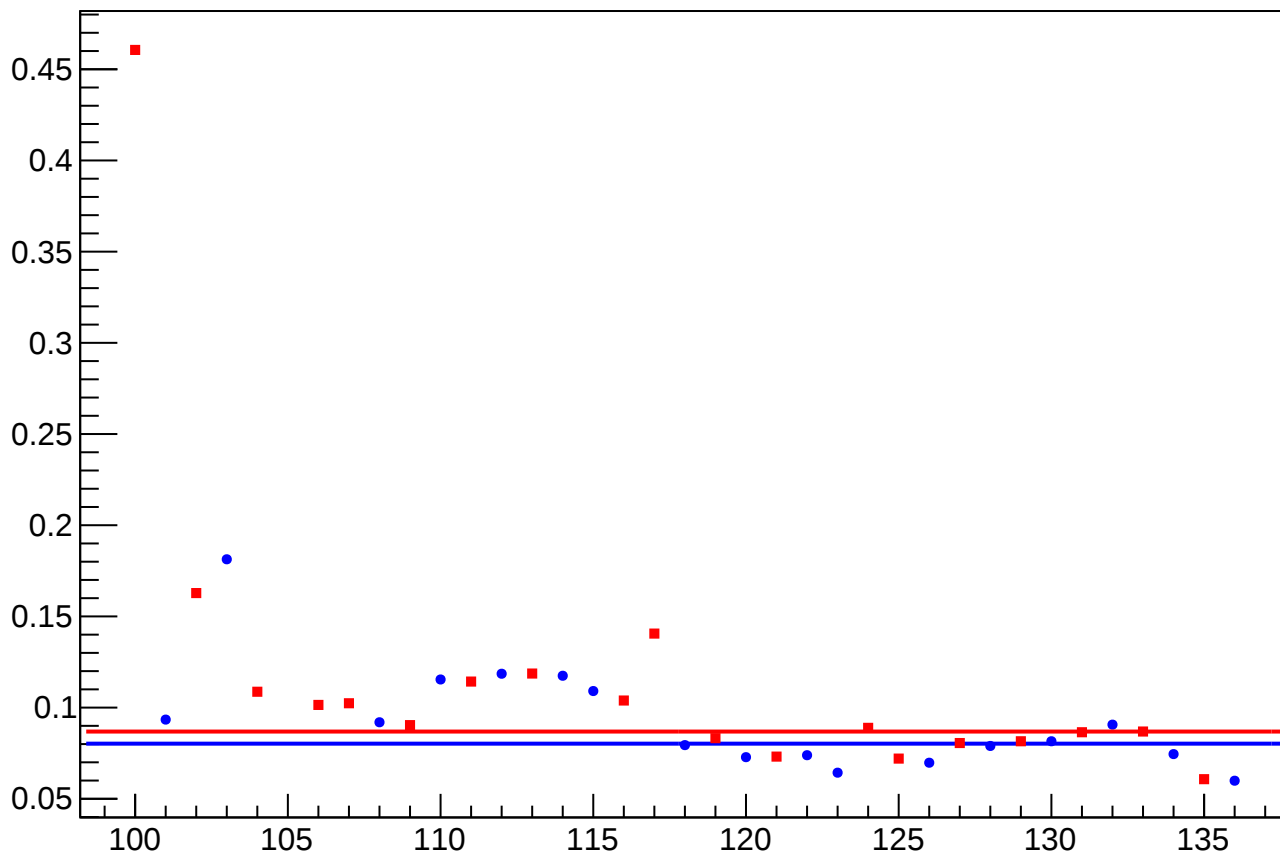
Right Out: 14.824+/-0.000  $\chi^2/\text{NDF}$ : 1848462325.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14.536+/-0.000  $\chi^2/\text{NDF}$ : 1470499792.7/16

14.824+/-0.000  $\chi^2/\text{NDF}$ : 1848462325.7/18

# yield\_sam4\_rms vs Slug



Right In: 0.080+/-0.000  $\chi^2/\text{NDF}$ : 778734.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

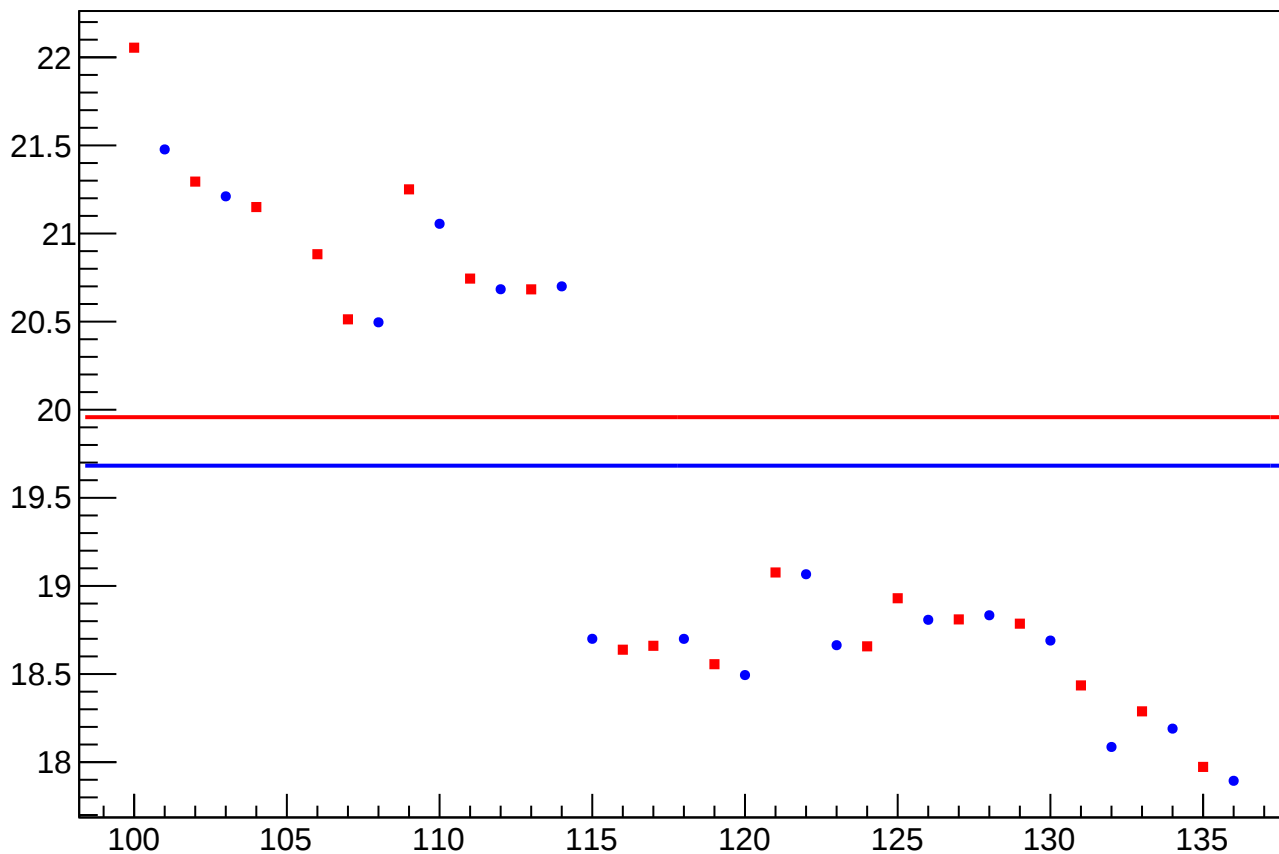
Right Out: 0.087+/-0.000  $\chi^2/\text{NDF}$ : 705491.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.080+/-0.000  $\chi^2/\text{NDF}$ : 778734.5/16

0.087+/-0.000  $\chi^2/\text{NDF}$ : 705491.7/18

# yield\_sam5\_mean vs Slug



Right In: 19.683+/-0.000  $\chi^2/\text{NDF}$ : 12276801857.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

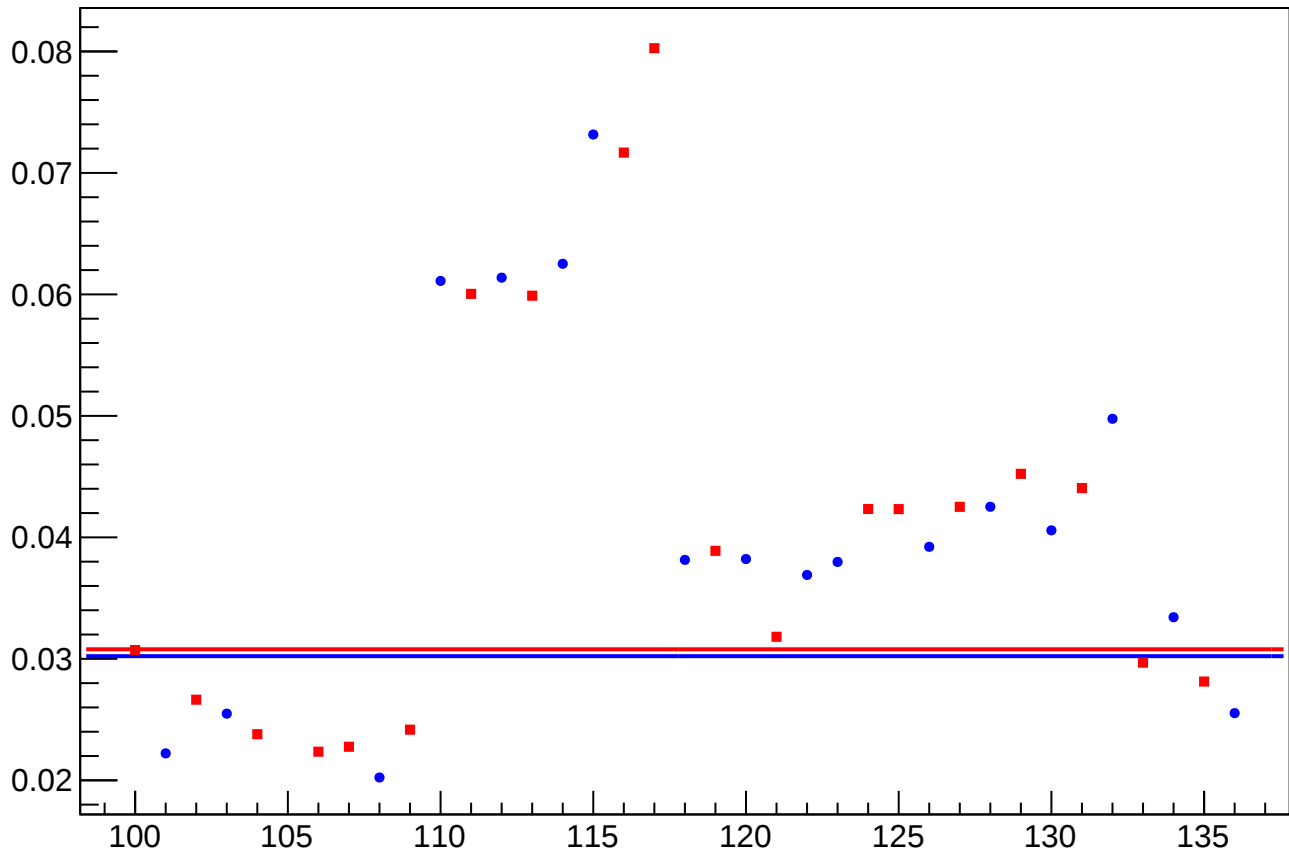
Right Out: 19.958+/-0.000  $\chi^2/\text{NDF}$ : 10206280613.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

19.683+/-0.000  $\chi^2/\text{NDF}$ : 12276801857.2/16

19.958+/-0.000  $\chi^2/\text{NDF}$ : 10206280613.1/18

# yield\_sam5\_rms vs Slug



Right In: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 1324518.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

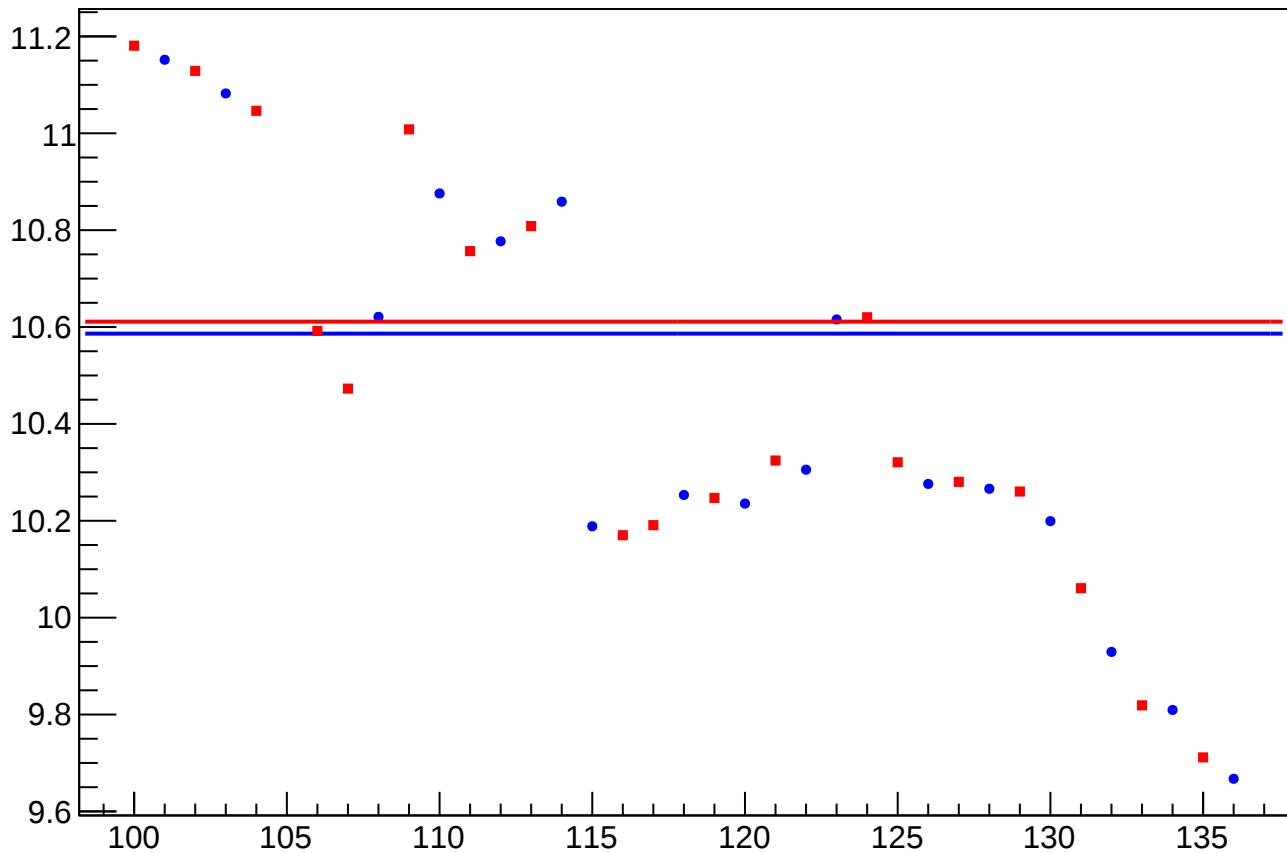
Right Out: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 1208073.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.030+/-0.000  $\chi^2/\text{NDF}$ : 1324518.2/16

0.031+/-0.000  $\chi^2/\text{NDF}$ : 1208073.1/18

# yield\_sam6\_mean vs Slug



Right In: 10.586+/-0.000  $\chi^2/\text{NDF}$ : 7420104563.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

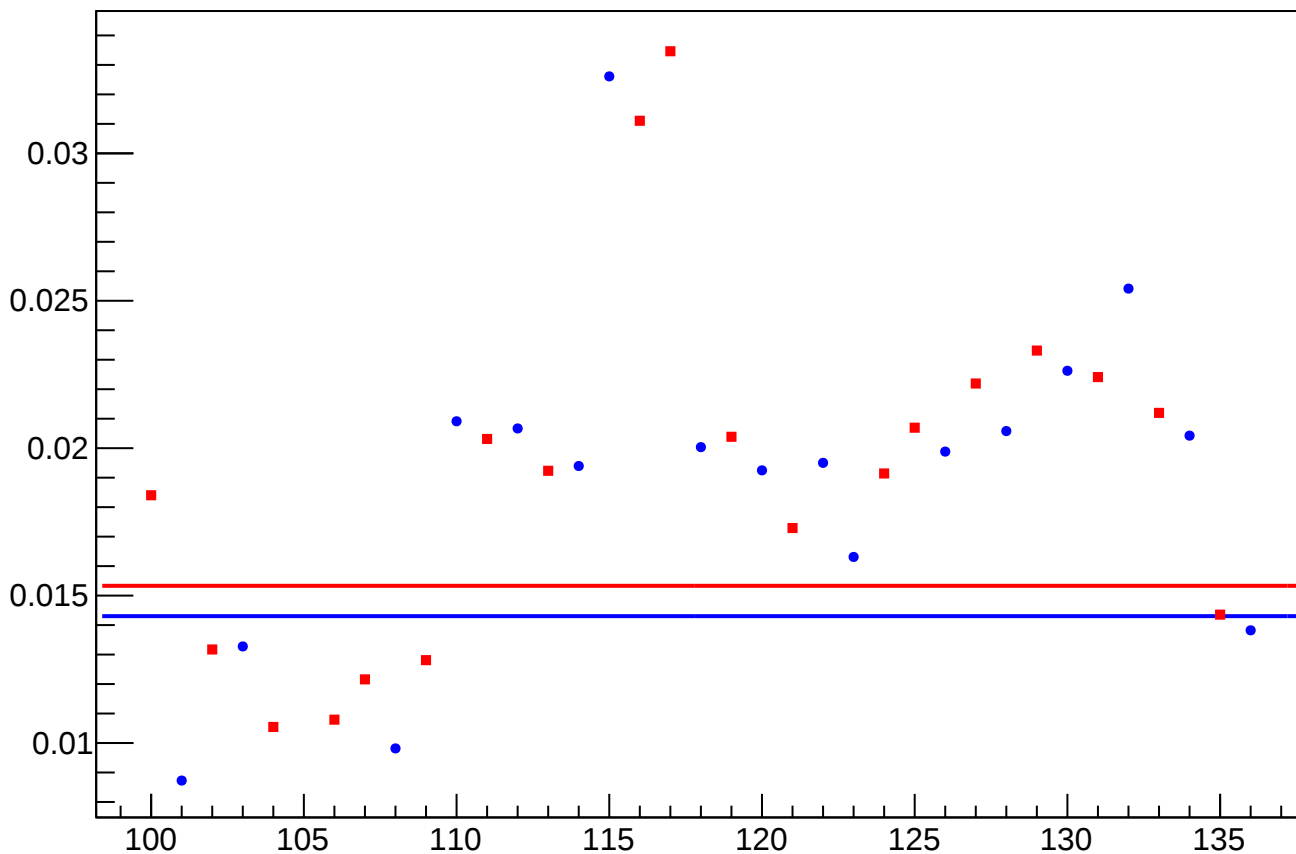
Right Out: 10.611+/-0.000  $\chi^2/\text{NDF}$ : 5029690417.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.586+/-0.000  $\chi^2/\text{NDF}$ : 7420104563.4/16

10.611+/-0.000  $\chi^2/\text{NDF}$ : 5029690417.8/18

# yield\_sam6\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1408012.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

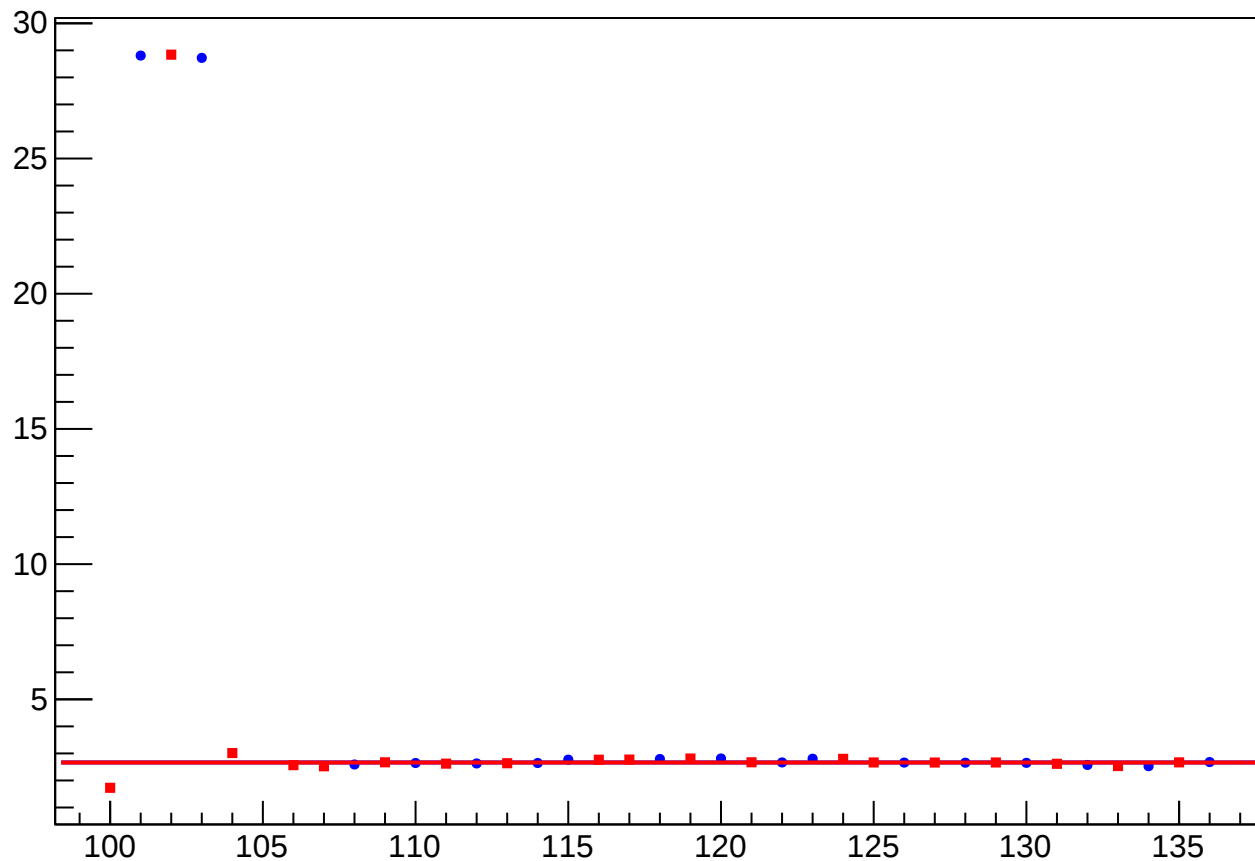
Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1010792.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 1408012.0/16

0.015+/-0.000  $\chi^2/\text{NDF}$ : 1010792.8/18

# yield\_sam7\_mean vs Slug



Right In: 2.666+/-0.000  $\chi^2/\text{NDF}$ : 163167327359.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

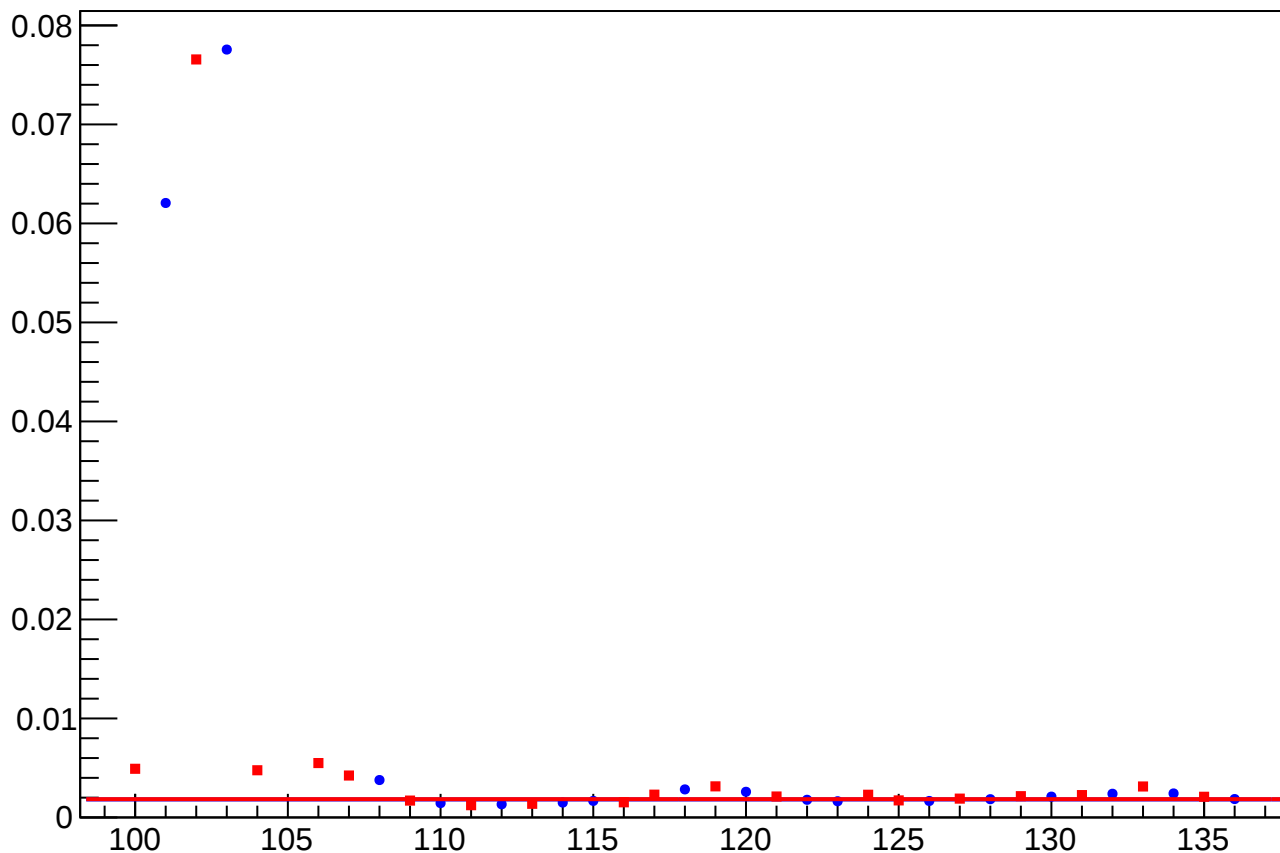
Right Out: 2.663+/-0.000  $\chi^2/\text{NDF}$ : 70465922629.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.666+/-0.000  $\chi^2/\text{NDF}$ : 163167327359.4/16

2.663+/-0.000  $\chi^2/\text{NDF}$ : 70465922629.9/18

# yield\_sam7\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2661372.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

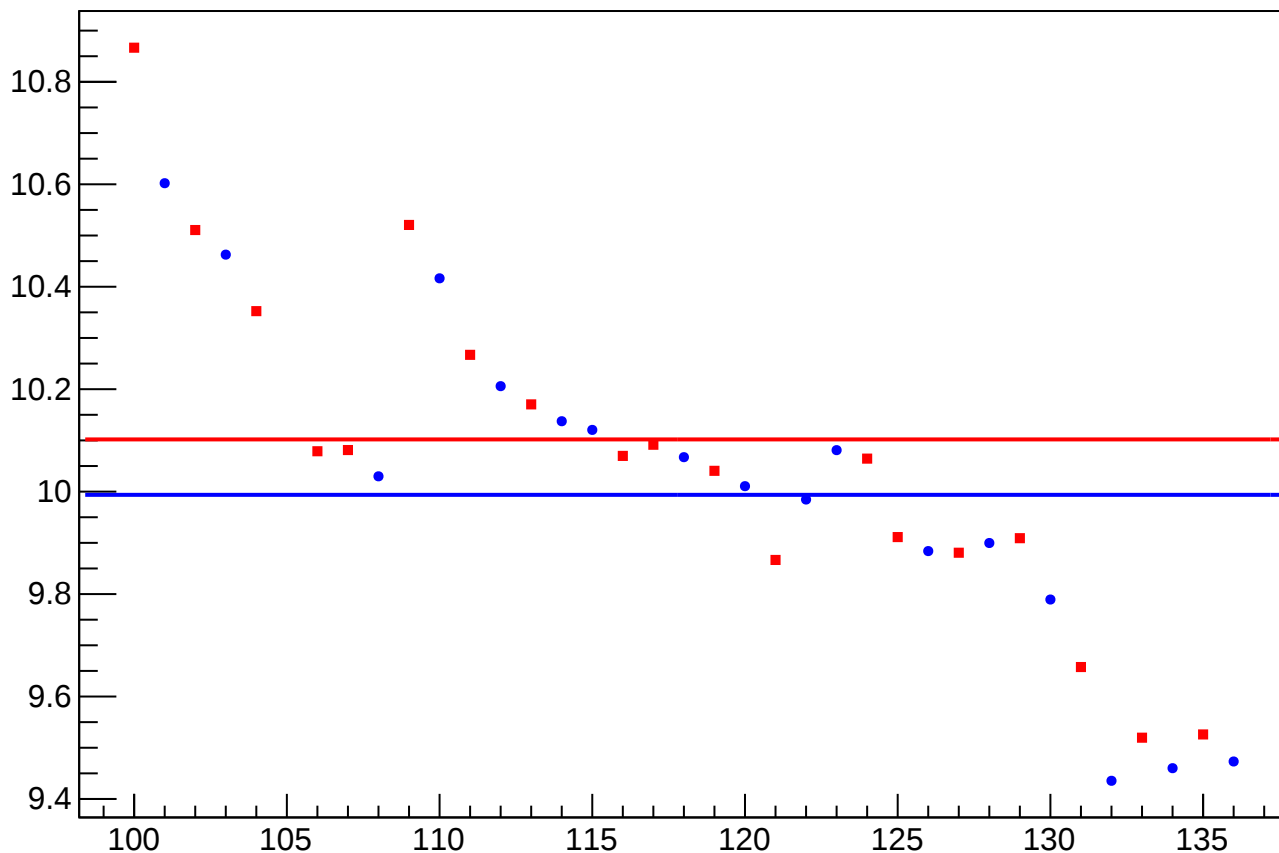
Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2334151.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.002+/-0.000  $\chi^2/\text{NDF}$ : 2661372.0/16

0.002+/-0.000  $\chi^2/\text{NDF}$ : 2334151.2/18

# yield\_sam8\_mean vs Slug



Right In: 9.994 $\pm$ 0.000  $\chi^2$ /NDF: 18815741664.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

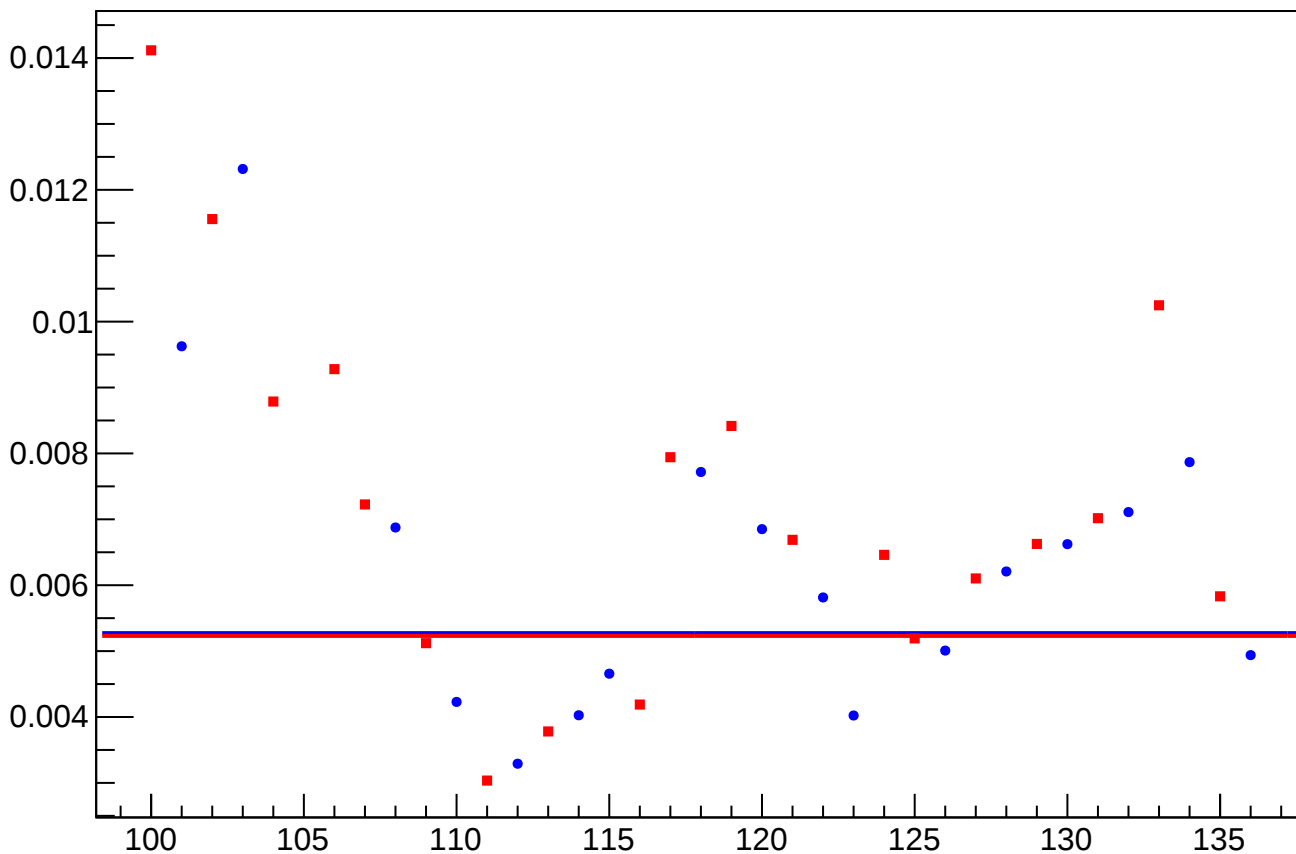
Right Out: 10.102 $\pm$ 0.000  $\chi^2$ /NDF: 13033934880.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

9.994 $\pm$ 0.000  $\chi^2$ /NDF: 18815741664.6/16

10.102 $\pm$ 0.000  $\chi^2$ /NDF: 13033934880.0/18

# yield\_sam8\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1245563.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

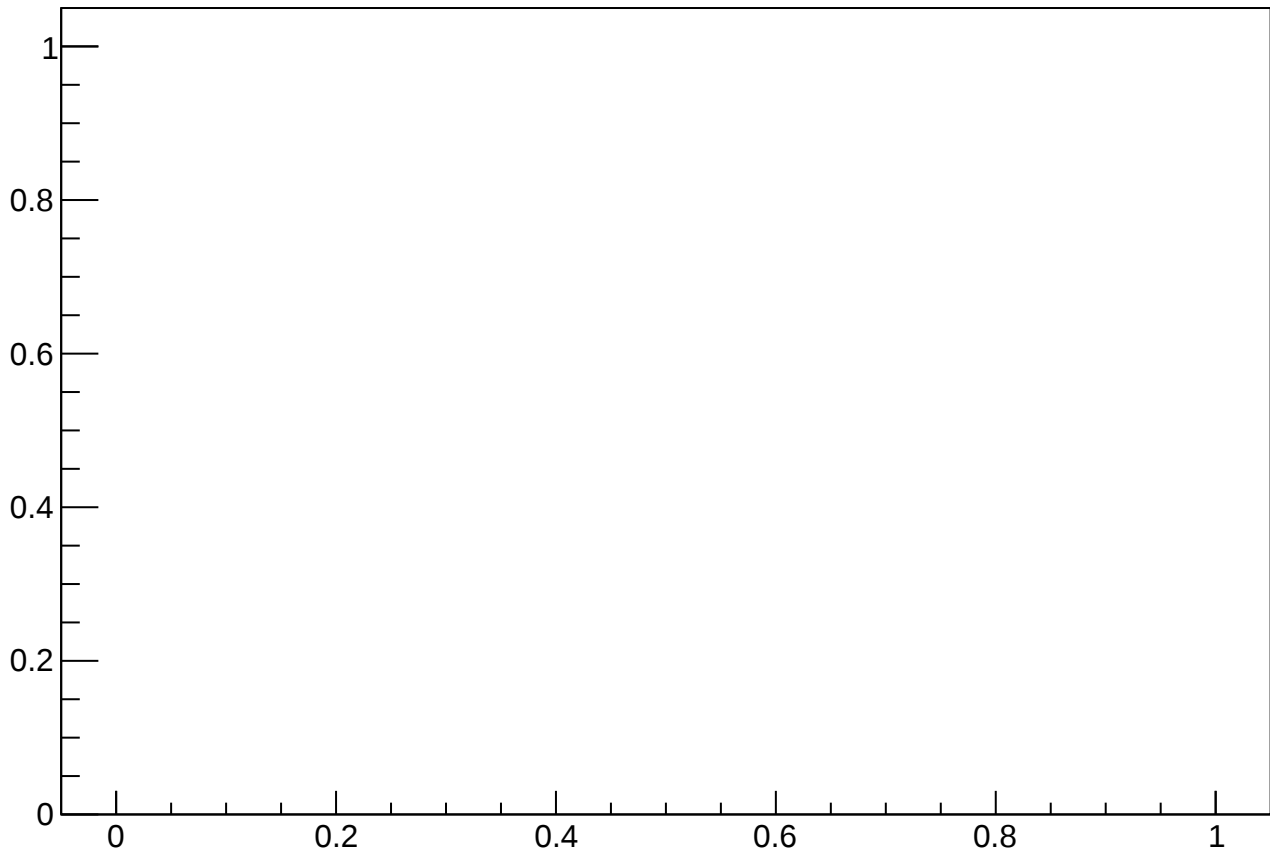
Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1666969.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.005+/-0.000  $\chi^2/\text{NDF}$ : 1245563.1/16

0.005+/-0.000  $\chi^2/\text{NDF}$ : 1666969.5/18

# cor\_sam1\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

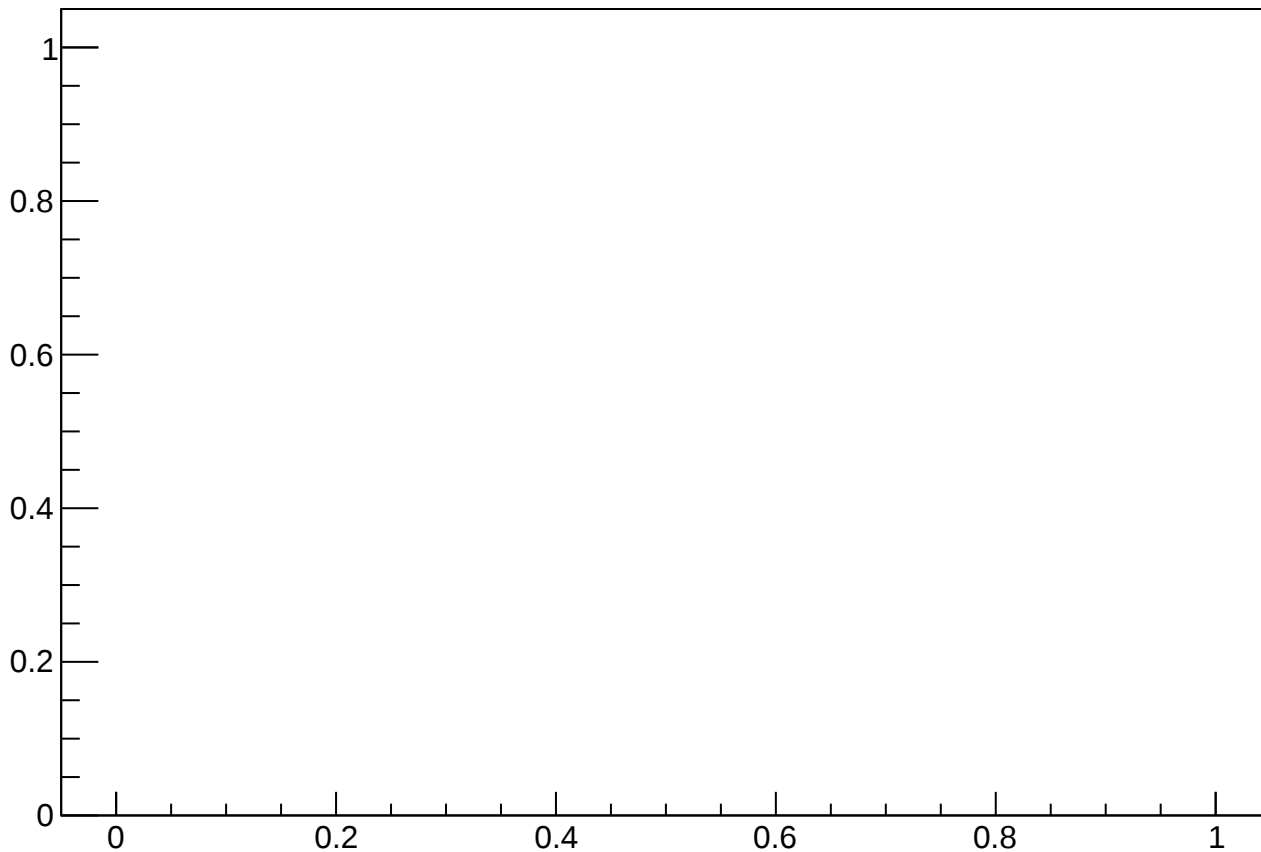
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam1\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

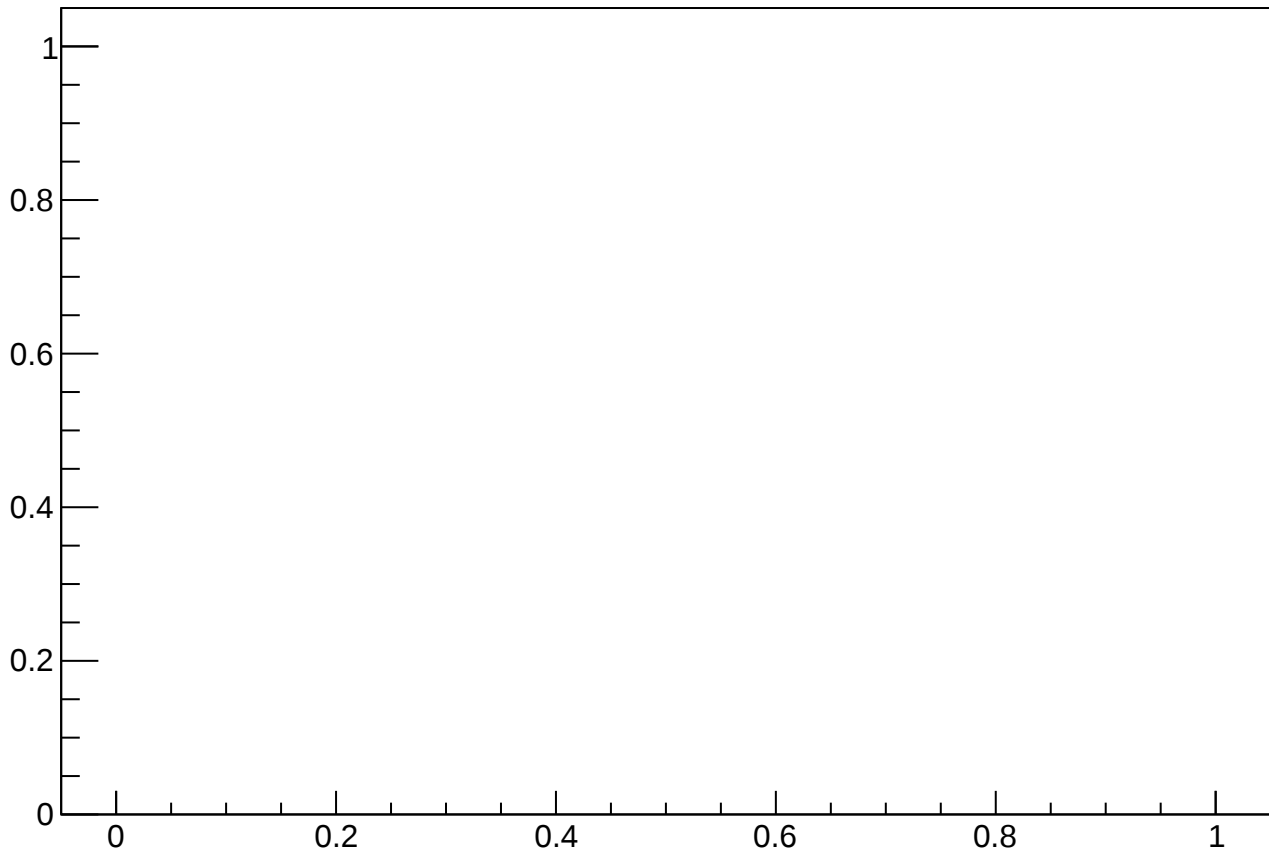
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# cor\_sam2\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

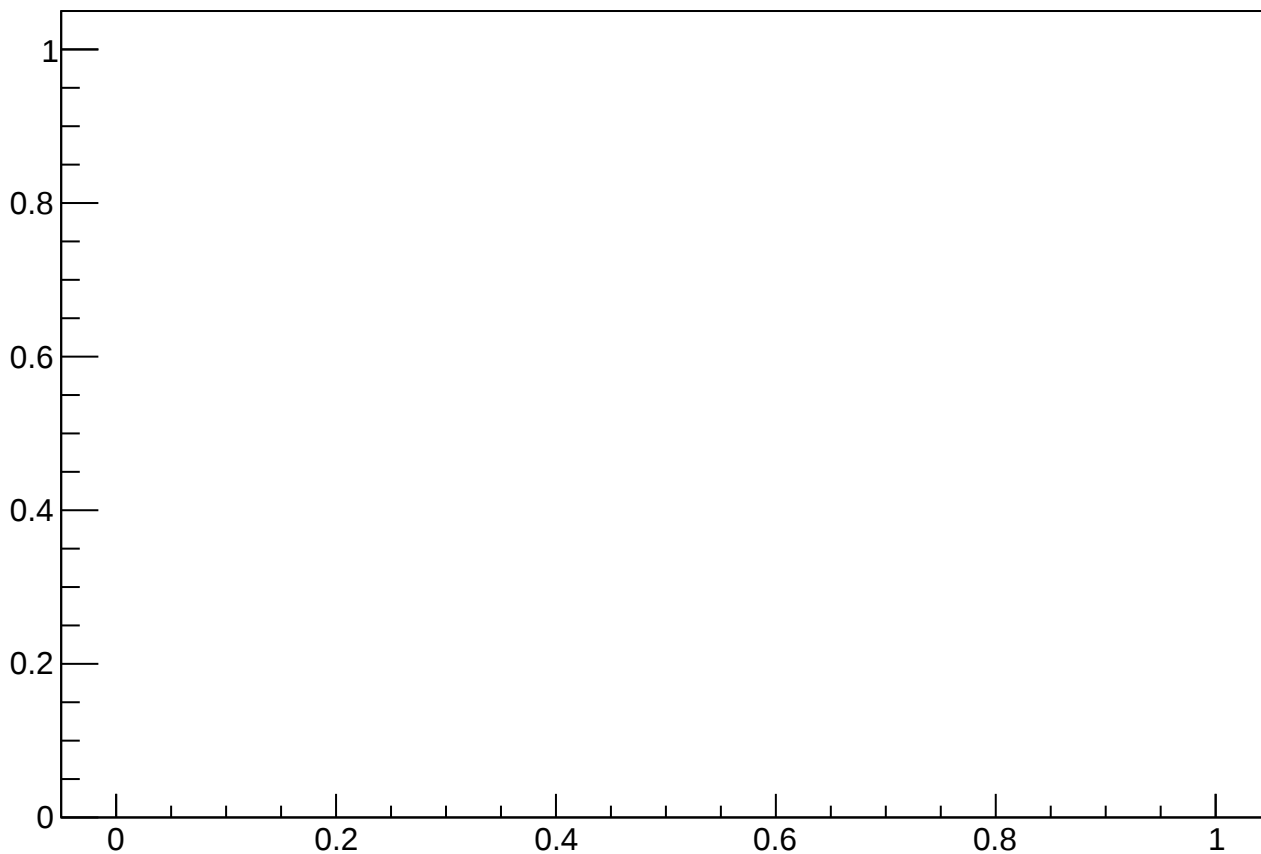
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam2\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

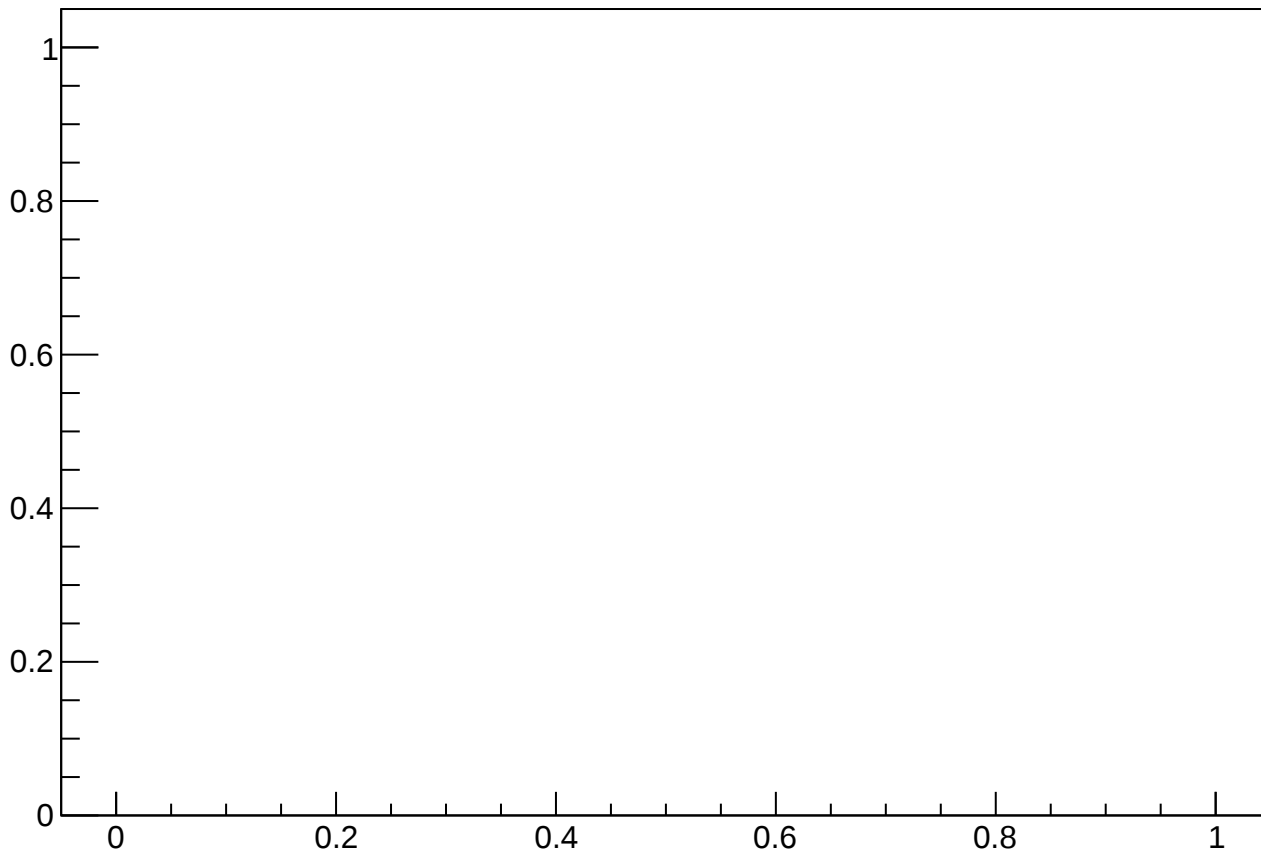
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam3\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

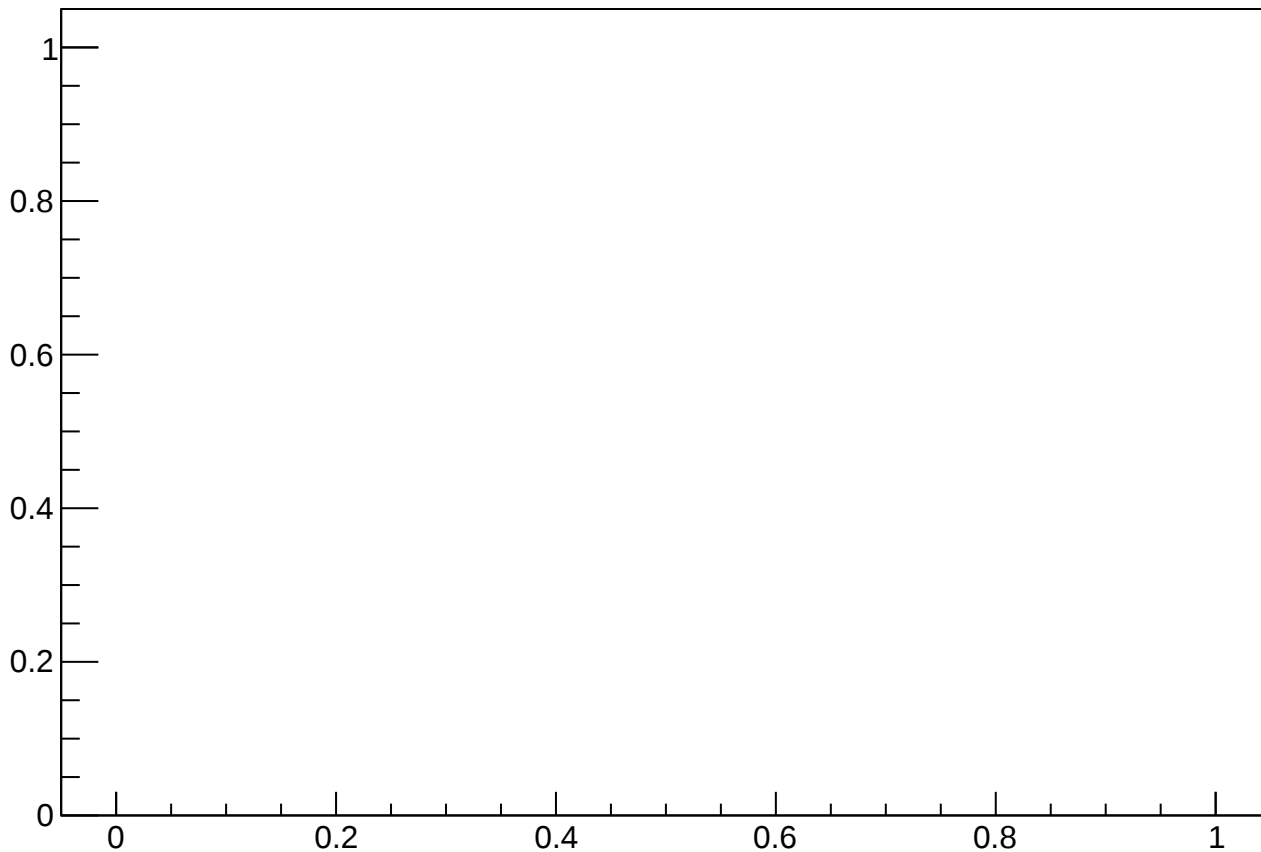
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam3\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

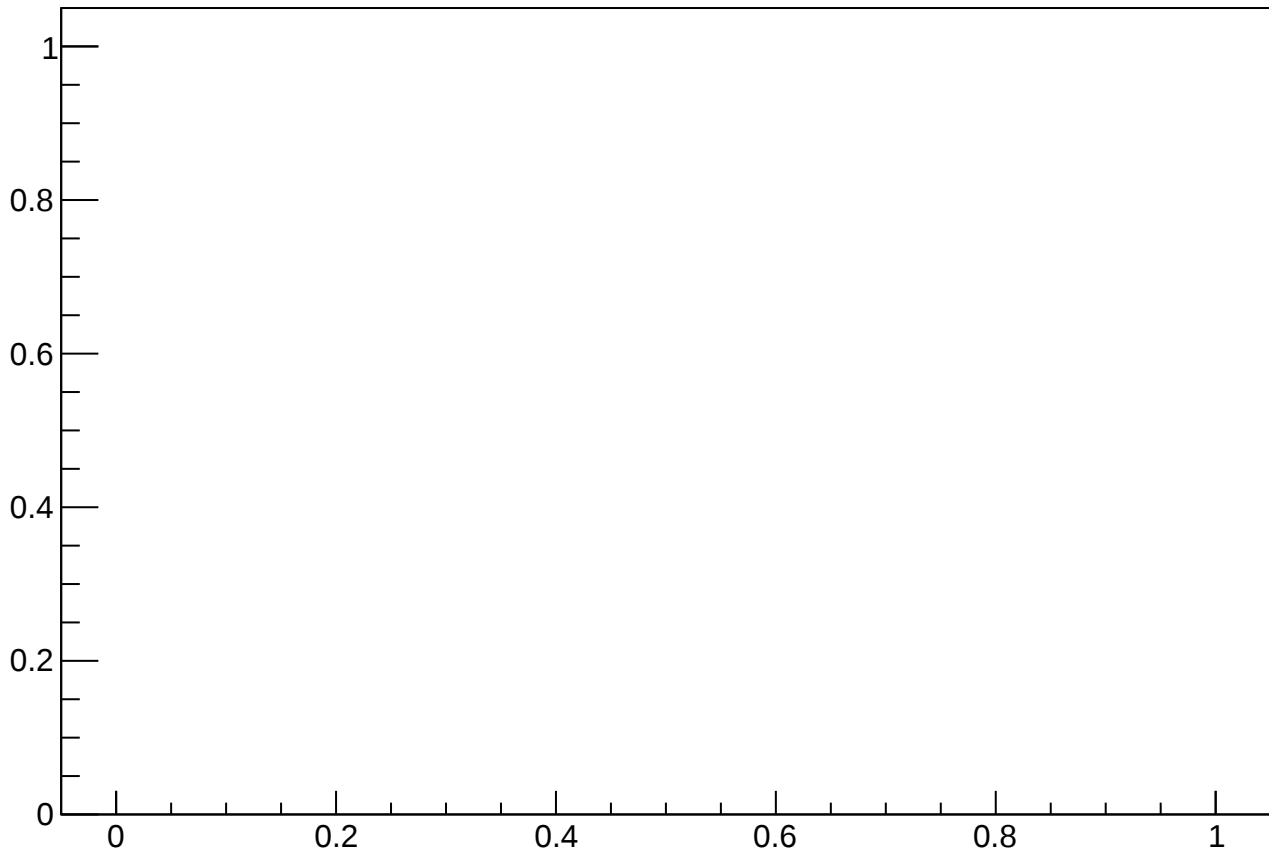
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam4\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

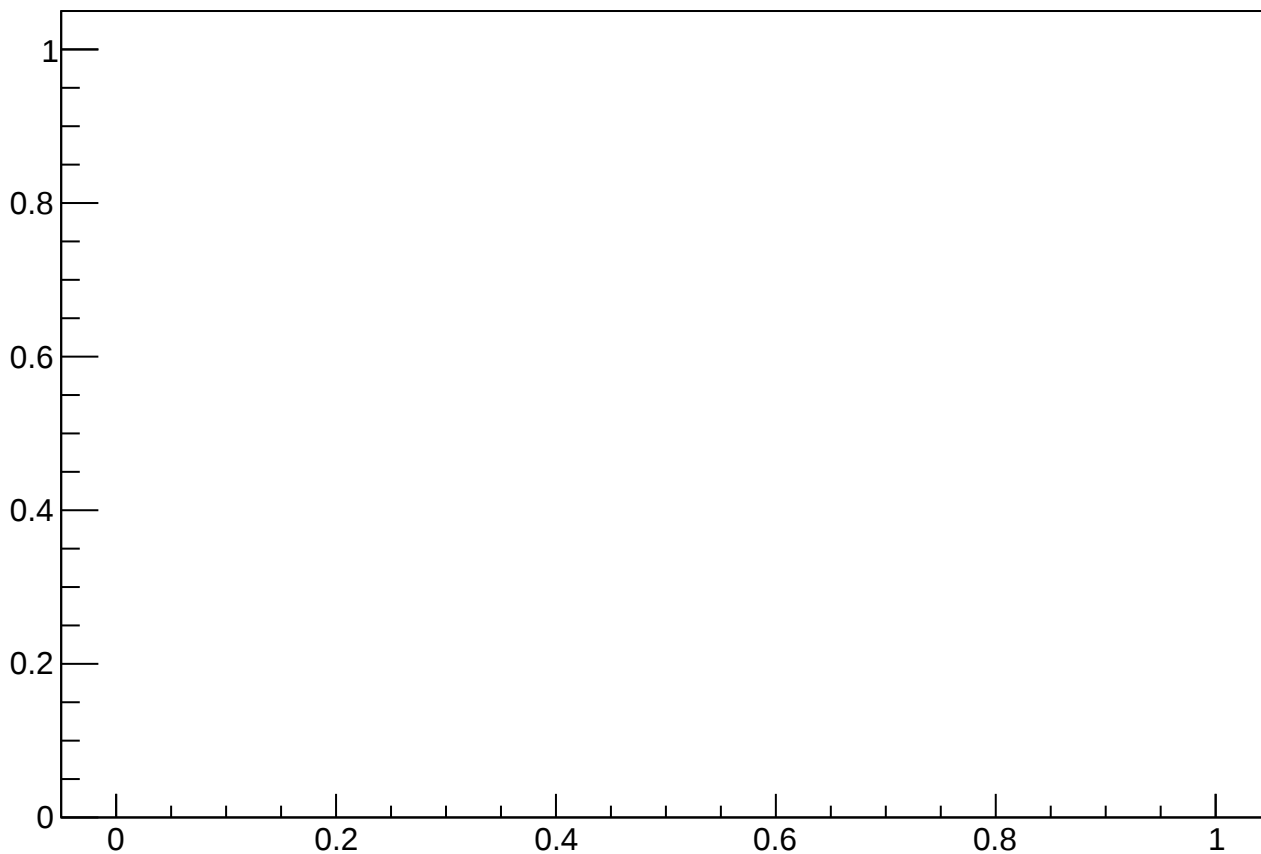
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam4\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

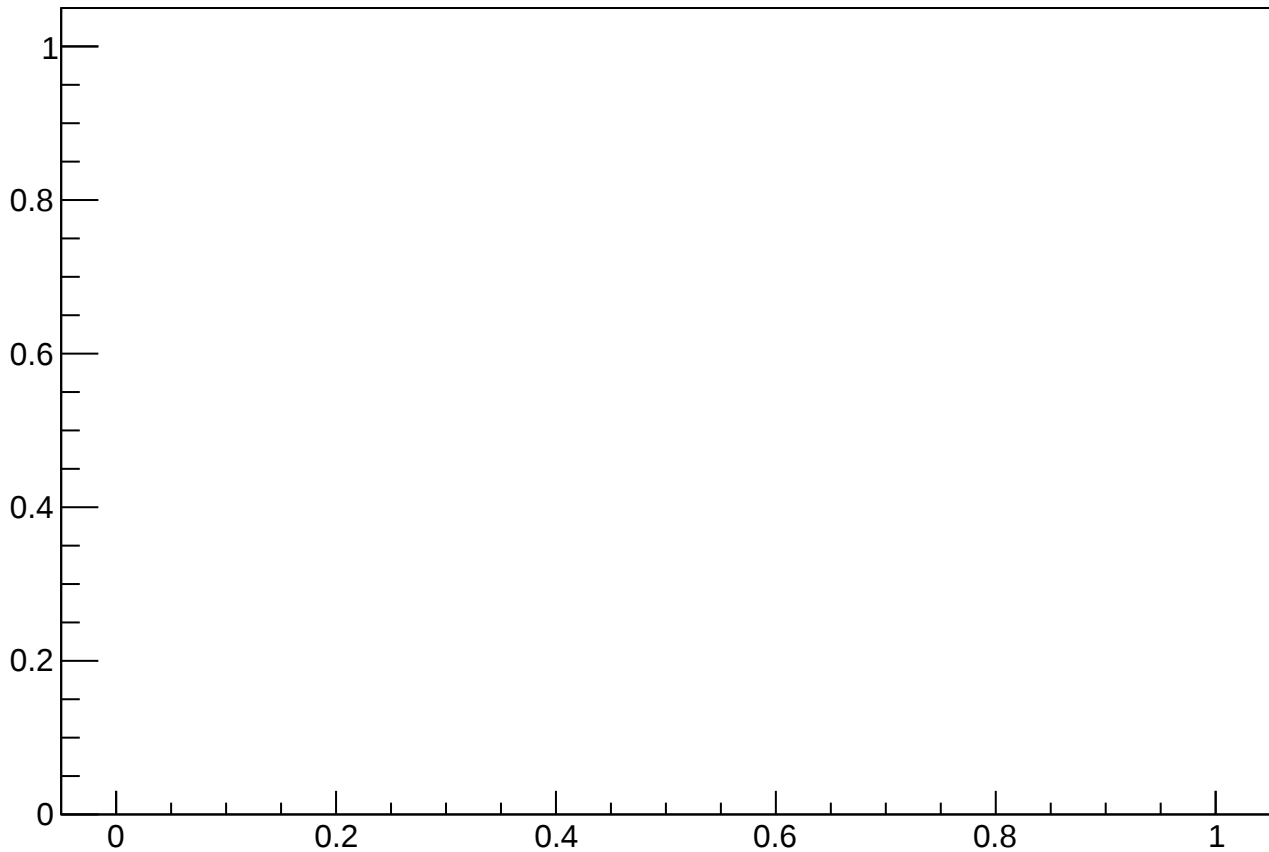
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam5\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

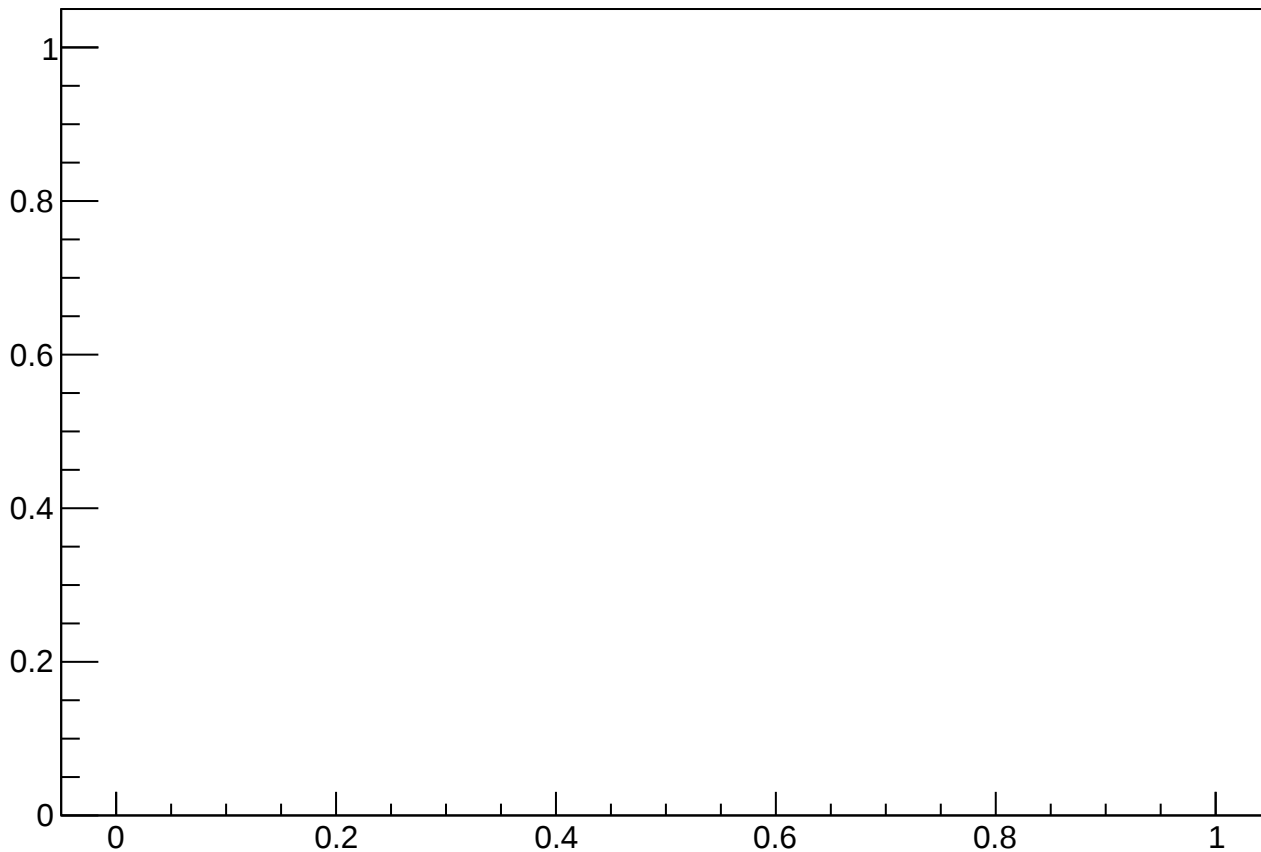
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam5\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

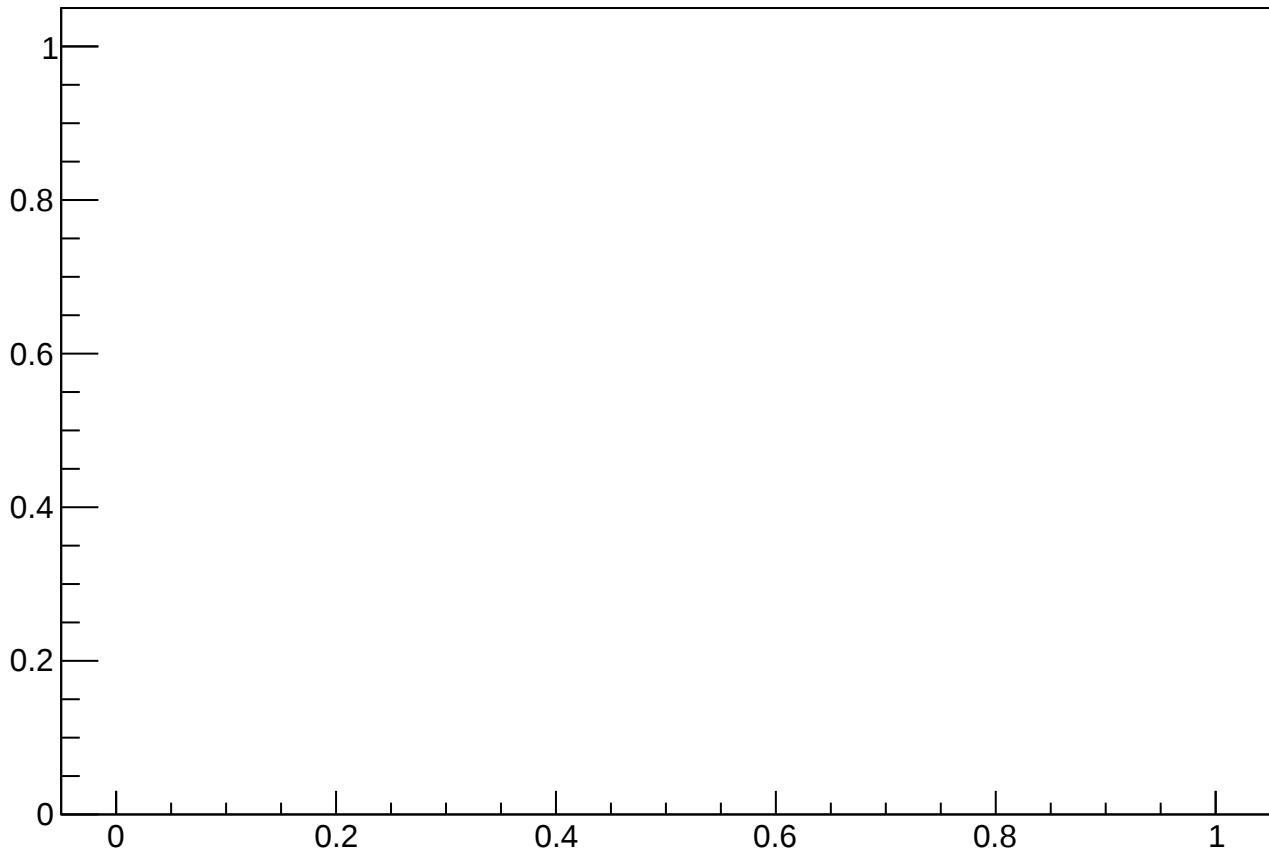
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# cor\_sam6\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

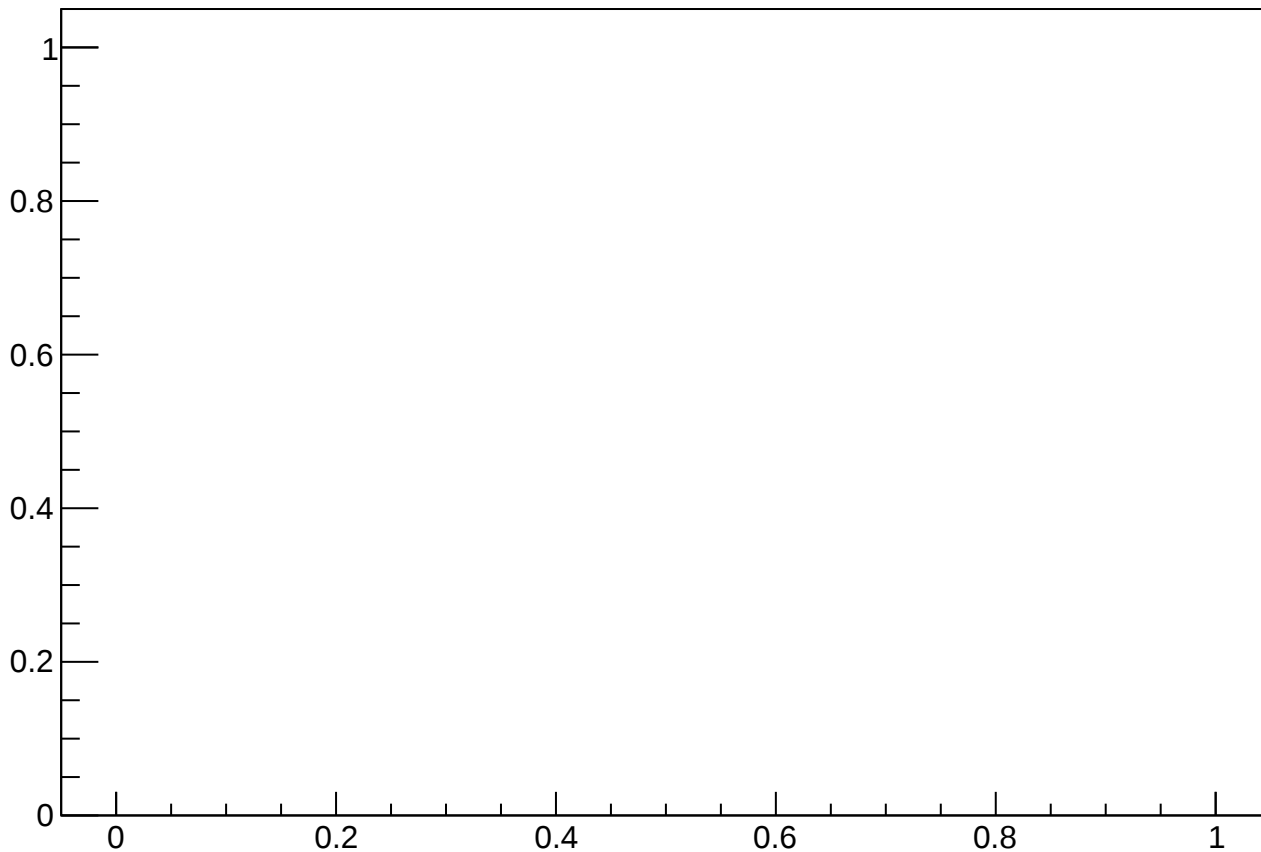
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam6\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

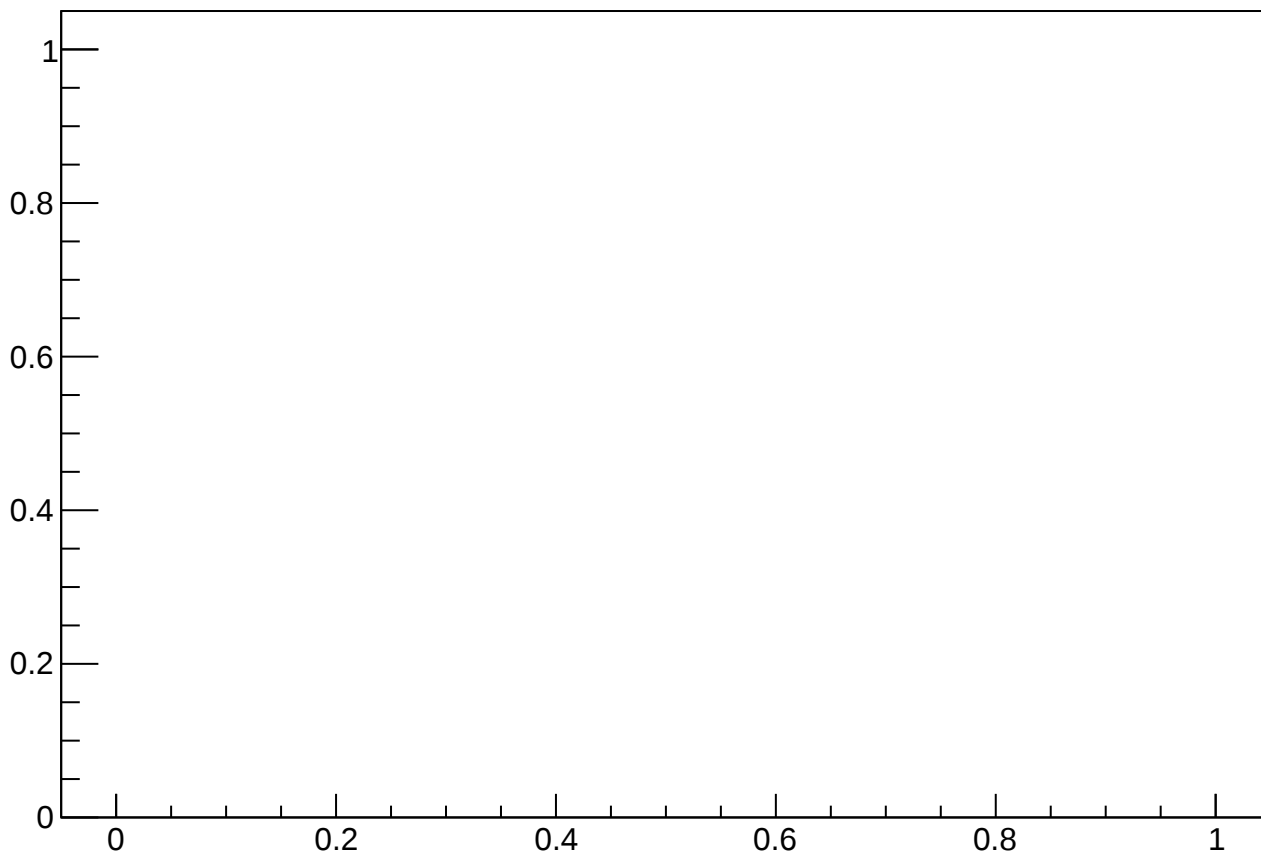
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam7\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

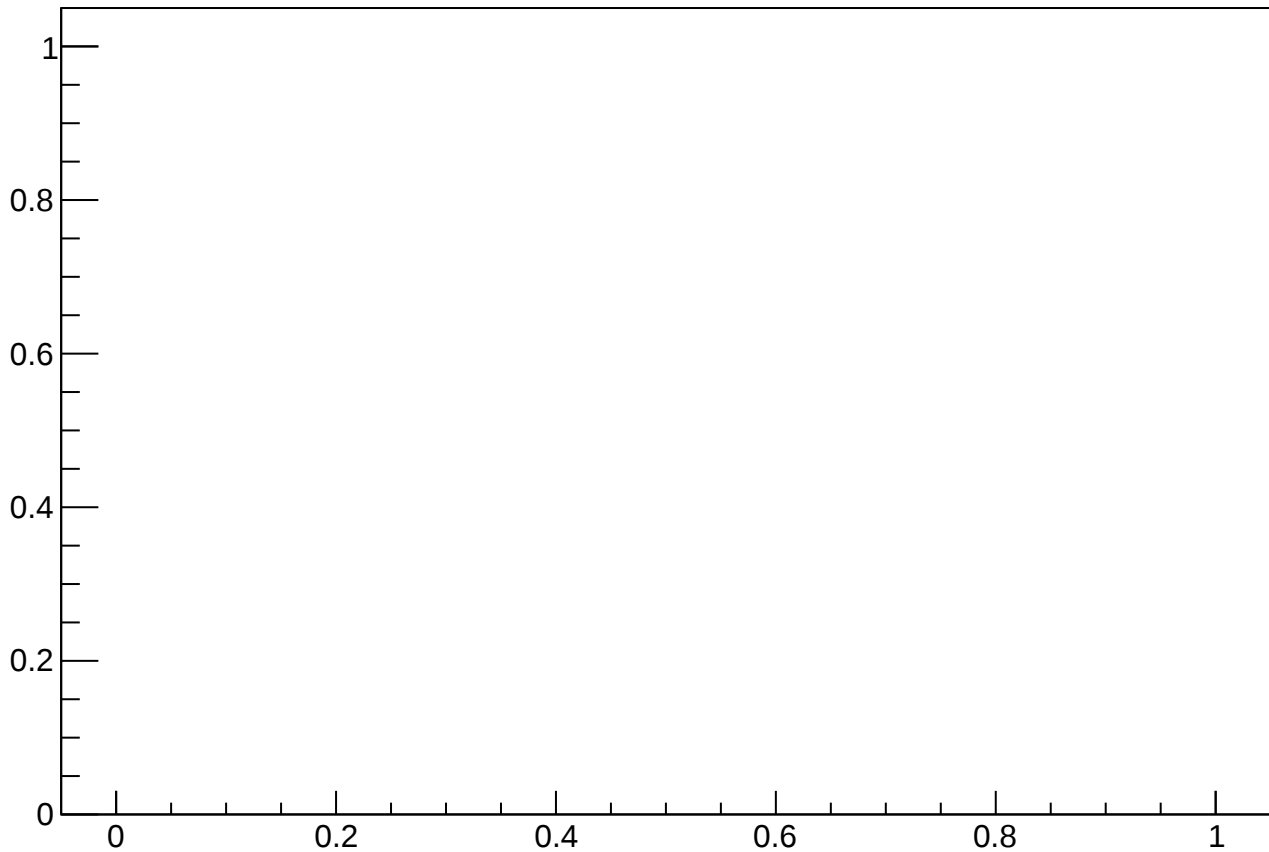
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam7\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

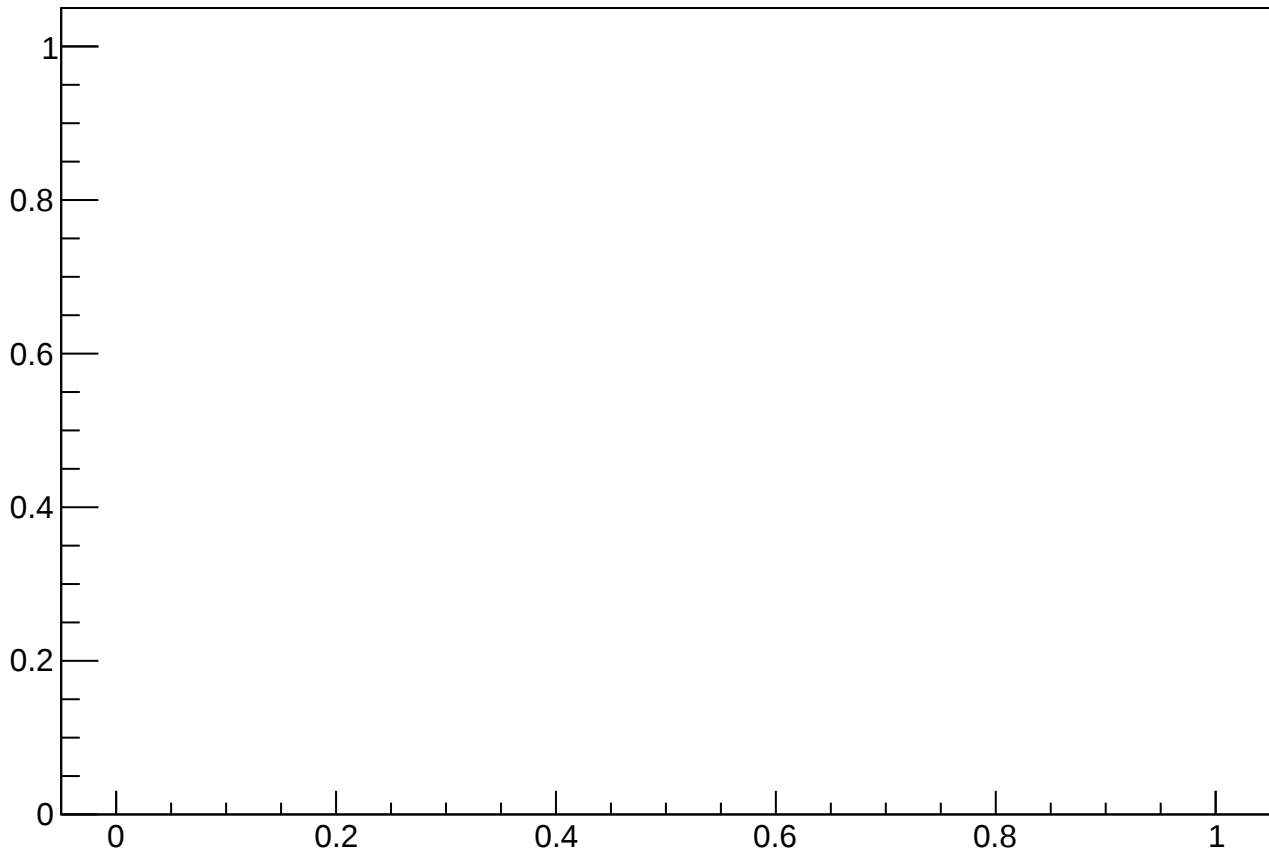
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam8\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

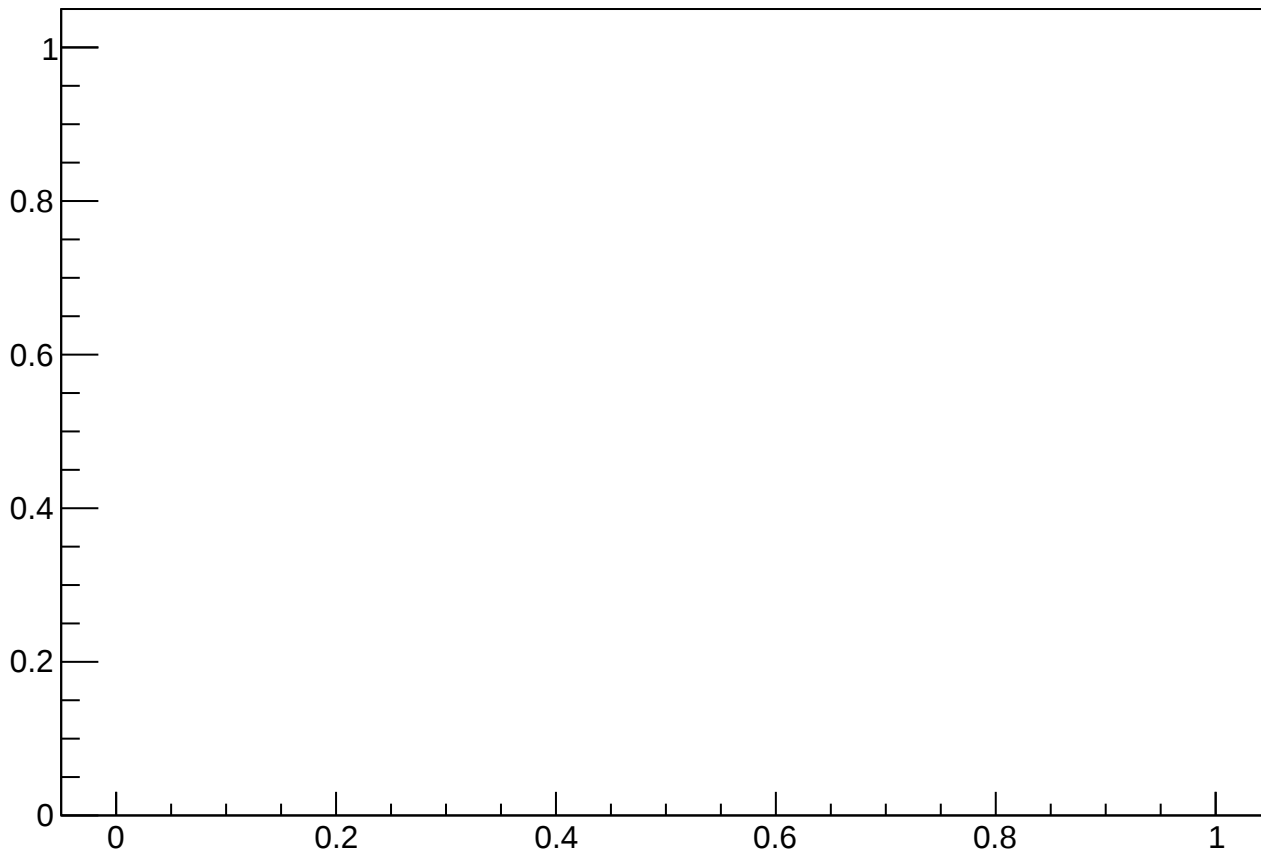
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam8\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

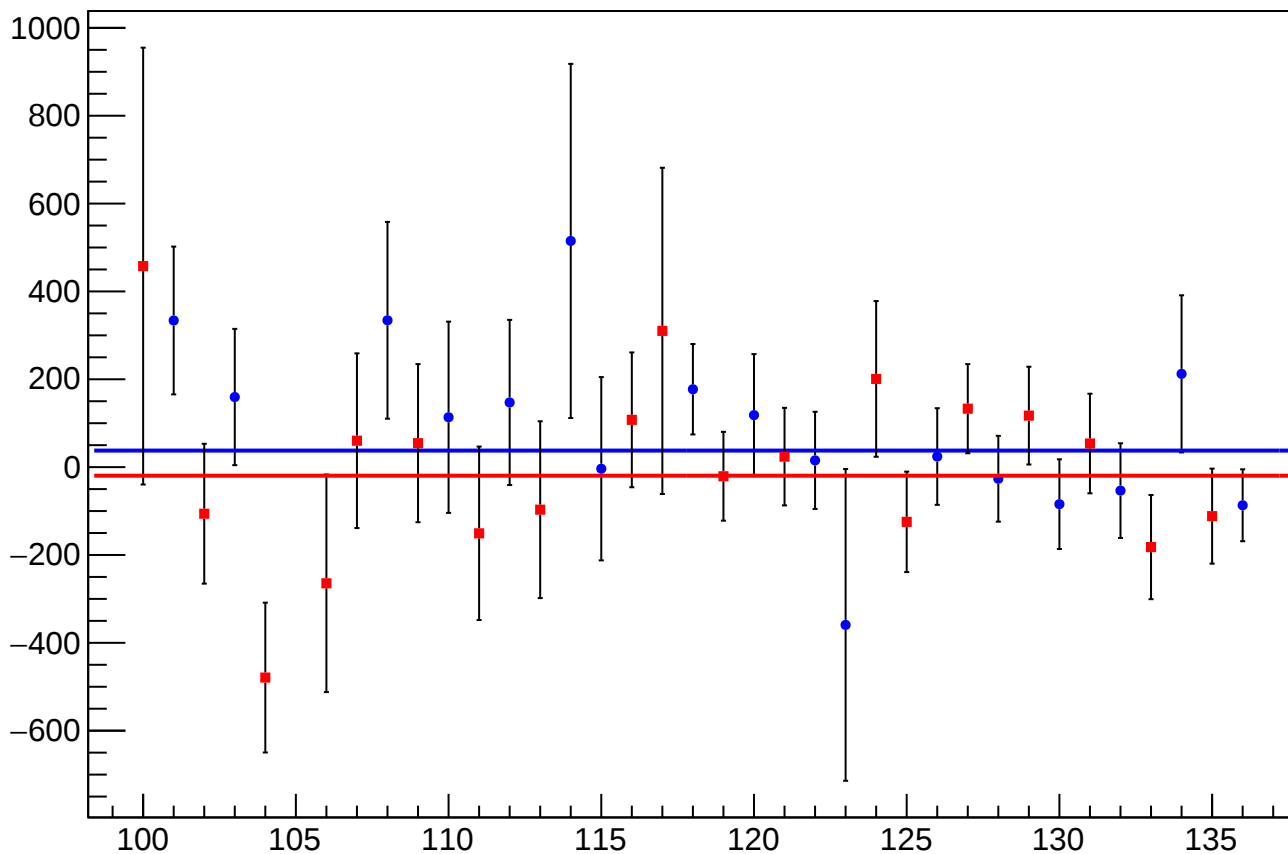
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_mean vs Slug



Right In: 37.694+/-32.253  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

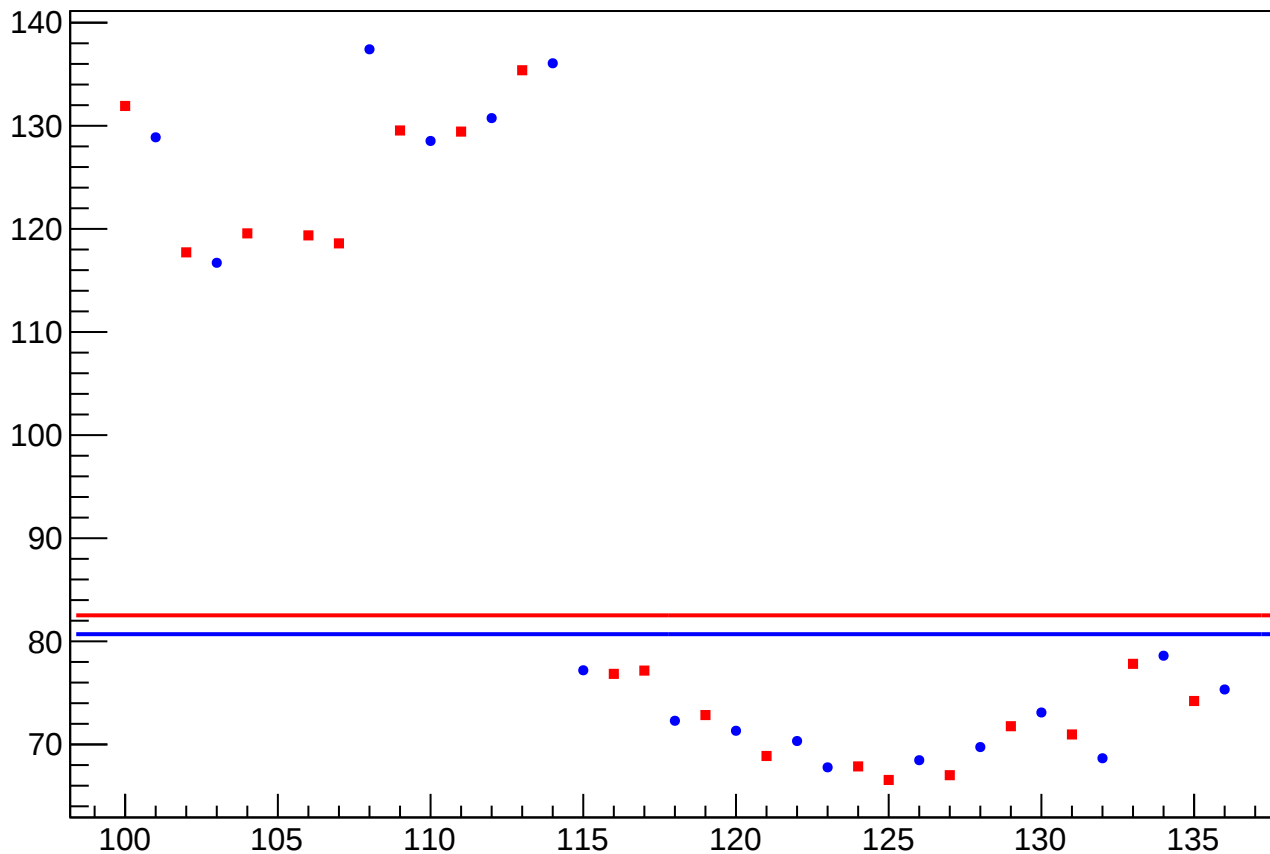
Right Out: -19.488+/-32.448  $\chi^2/\text{NDF}$ : 21.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

37.694+/-32.253  $\chi^2/\text{NDF}$ : 16.7/16

-19.488+/-32.448  $\chi^2/\text{NDF}$ : 21.2/18

# reg\_asym\_sam1\_rms vs Slug



Right In: 80.694 $\pm$ 0.023  $\chi^2$ /NDF: 814026.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

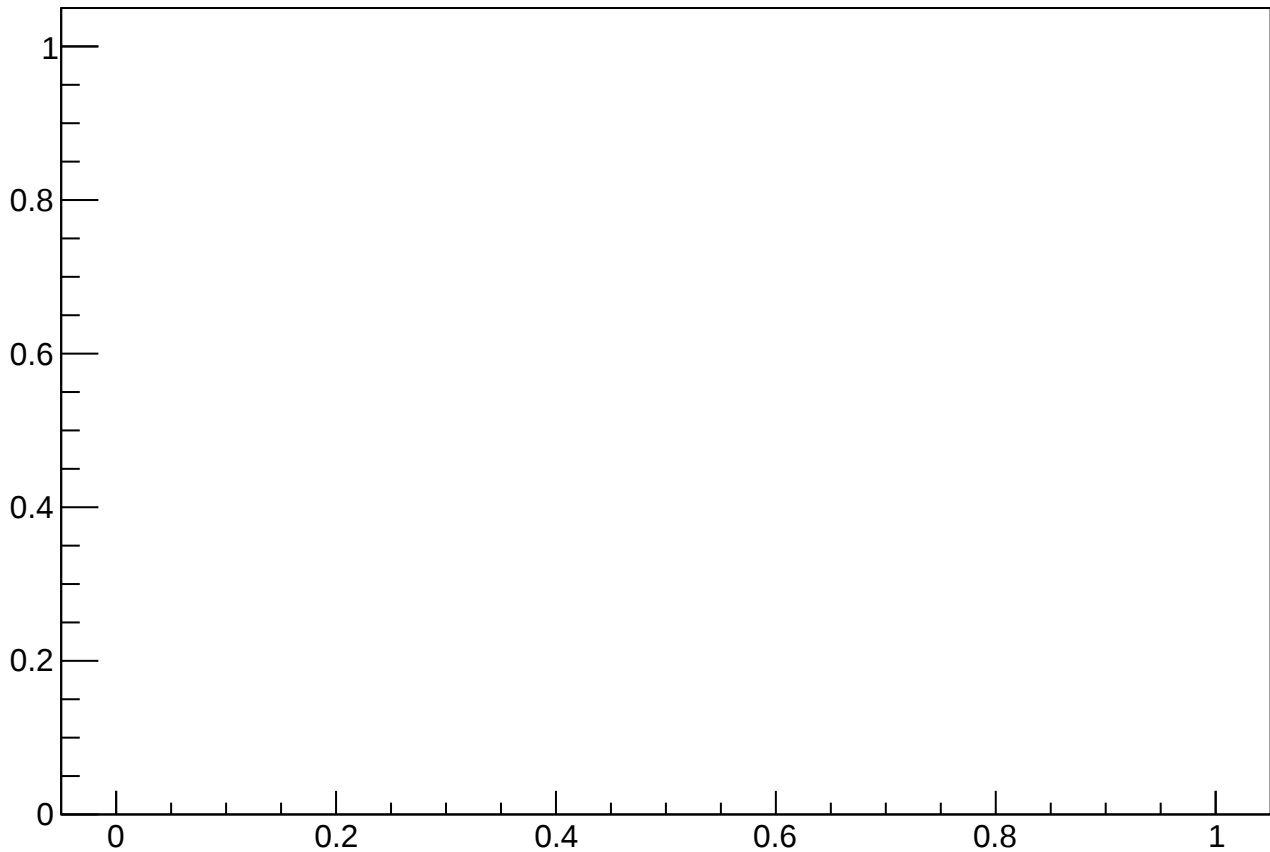
Right Out: 82.522 $\pm$ 0.023  $\chi^2$ /NDF: 914695.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

80.694 $\pm$ 0.023  $\chi^2$ /NDF: 814026.4/16

82.522 $\pm$ 0.023  $\chi^2$ /NDF: 914695.3/18

# asym\_sam1\_correction\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

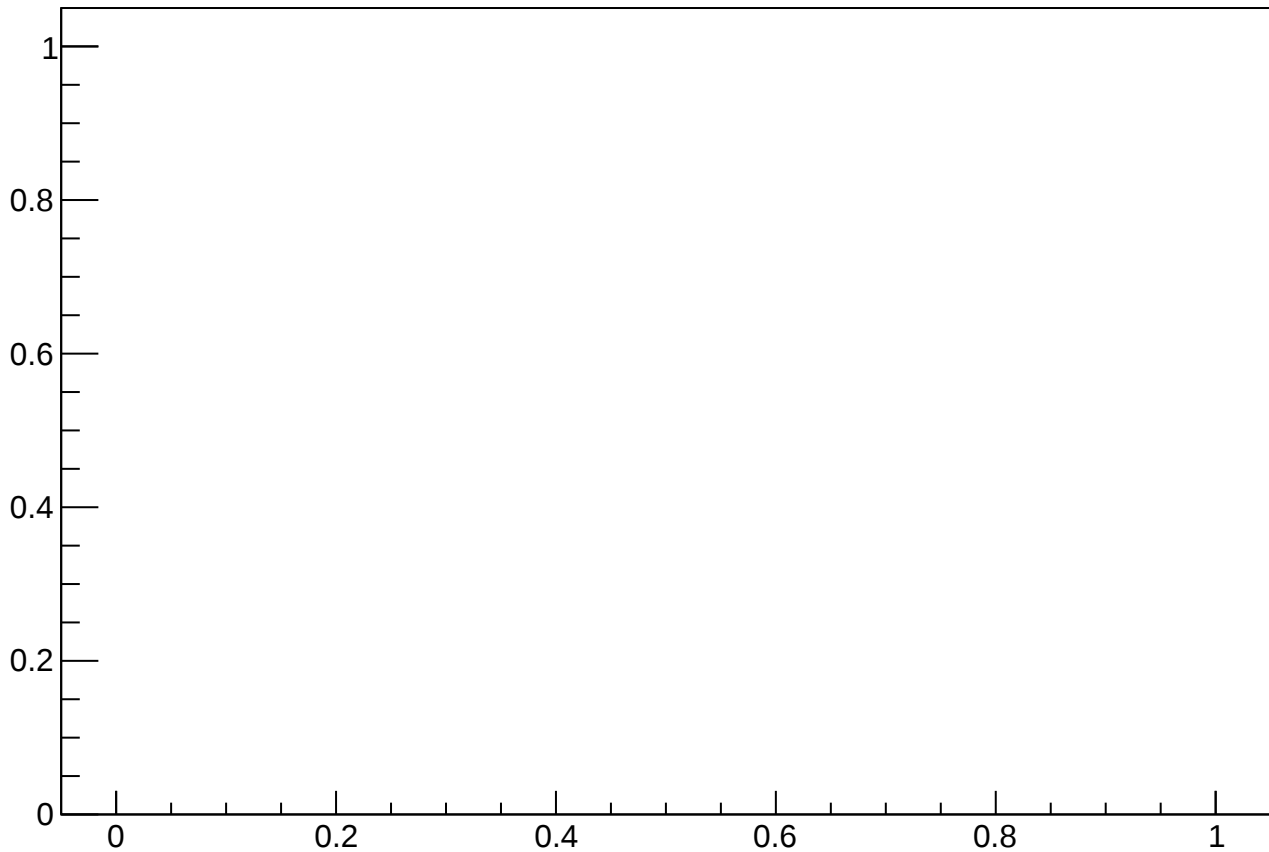
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

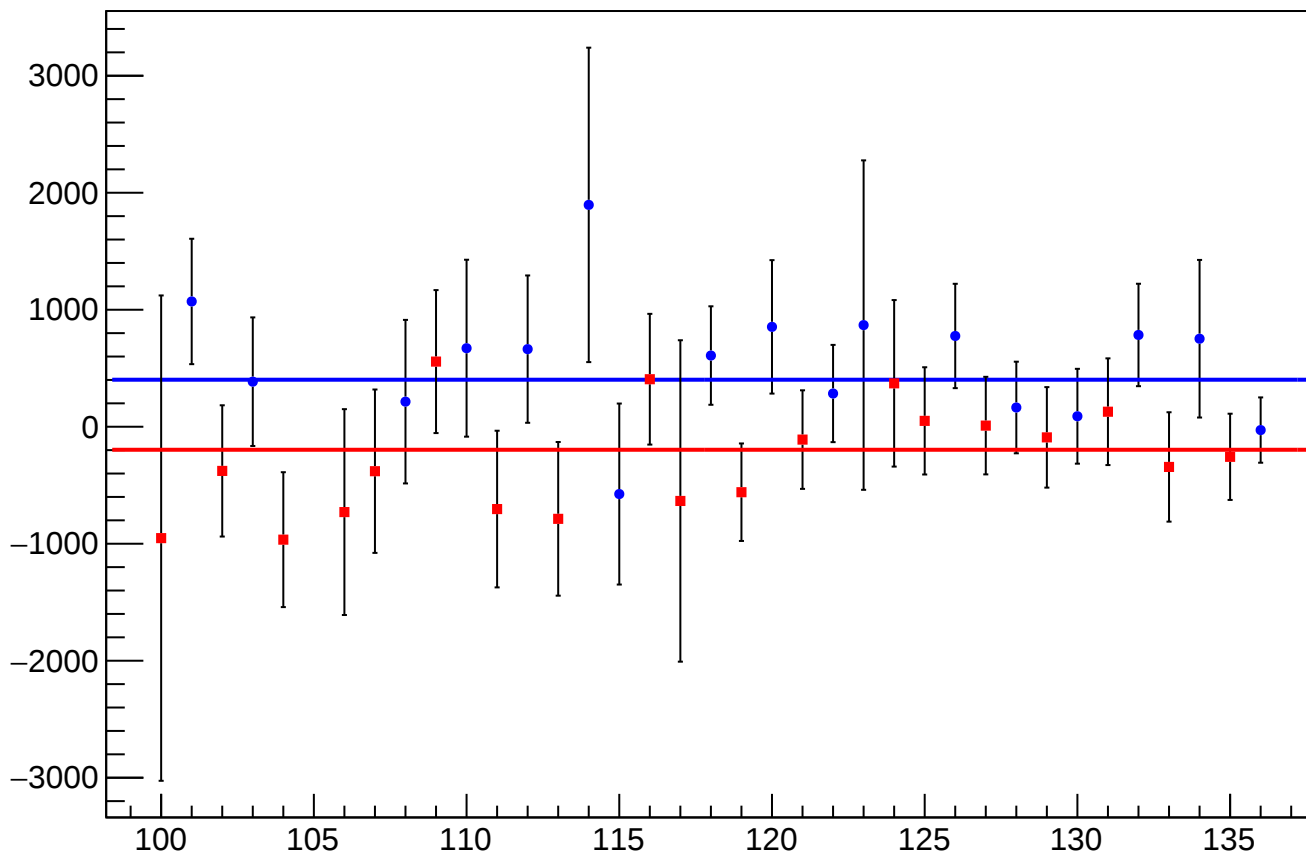
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_mean vs Slug



Right In: 401.871+/-121.048  $\chi^2/\text{NDF}$ : 10.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

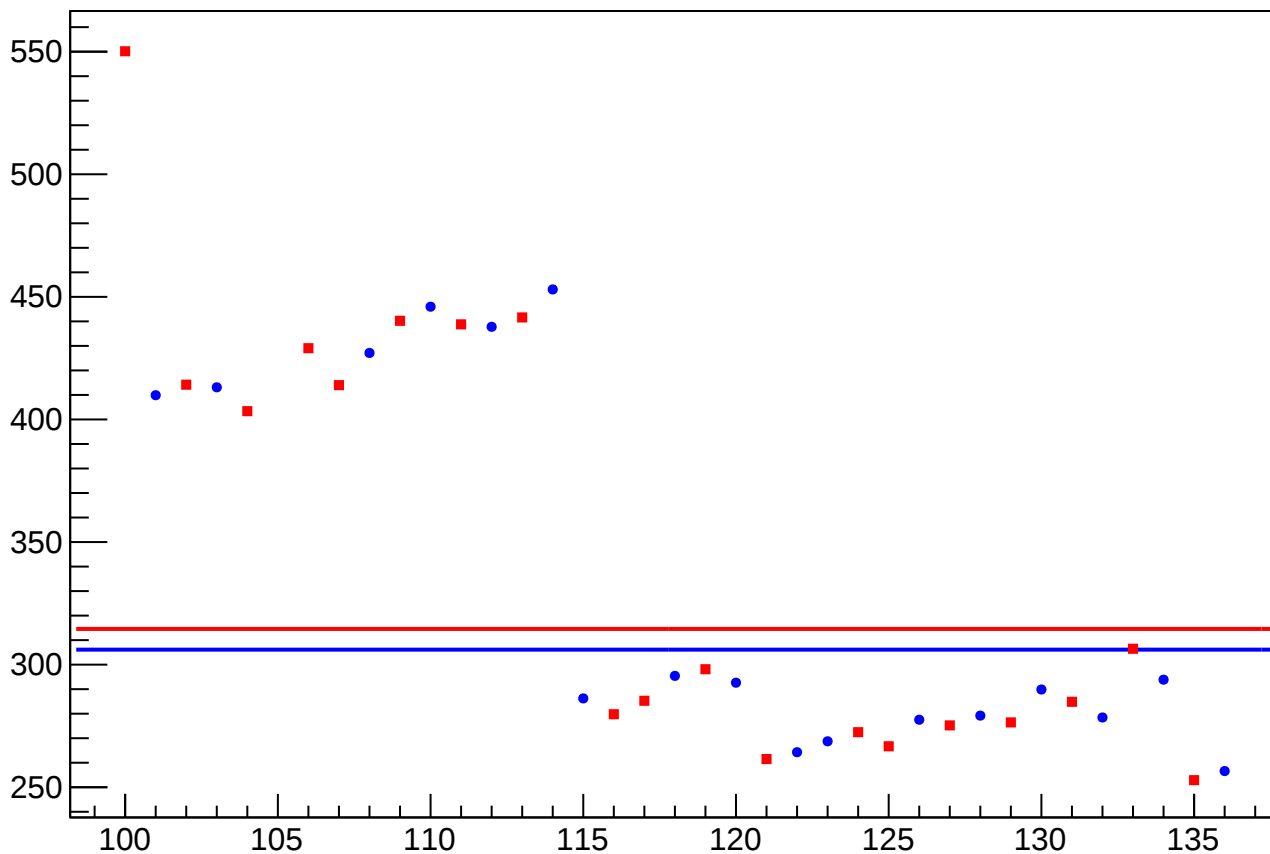
Right Out: -196.856+/-122.376  $\chi^2/\text{NDF}$ : 9.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

401.871+/-121.048  $\chi^2/\text{NDF}$ : 10.9/16

-196.856+/-122.376  $\chi^2/\text{NDF}$ : 9.3/18

# reg\_asym\_sam2\_rms vs Slug



Right In: 306.123+/-0.086  $\chi^2/\text{NDF}$ : 508435.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

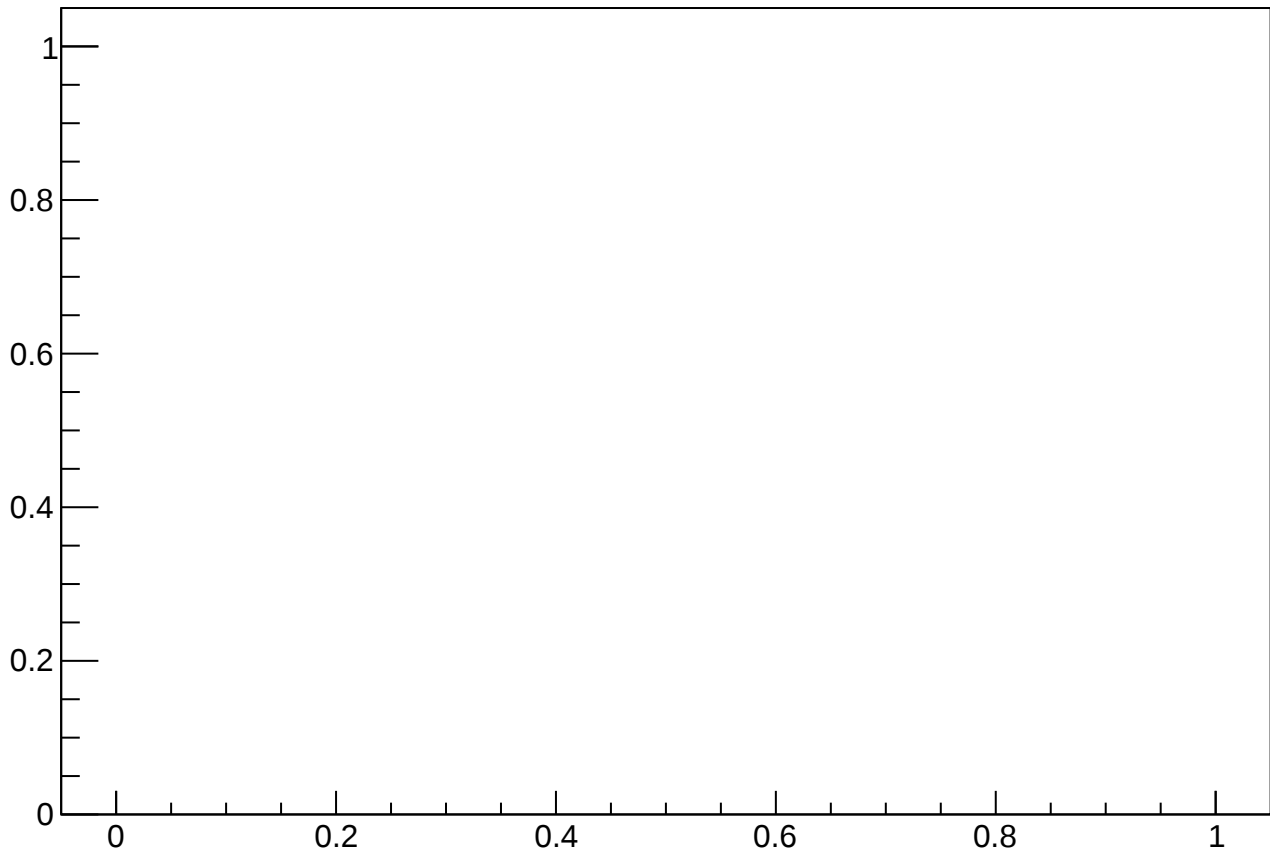
Right Out: 314.568+/-0.087  $\chi^2/\text{NDF}$ : 610060.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

306.123+/-0.086  $\chi^2/\text{NDF}$ : 508435.8/16

314.568+/-0.087  $\chi^2/\text{NDF}$ : 610060.9/18

# asym\_sam2\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

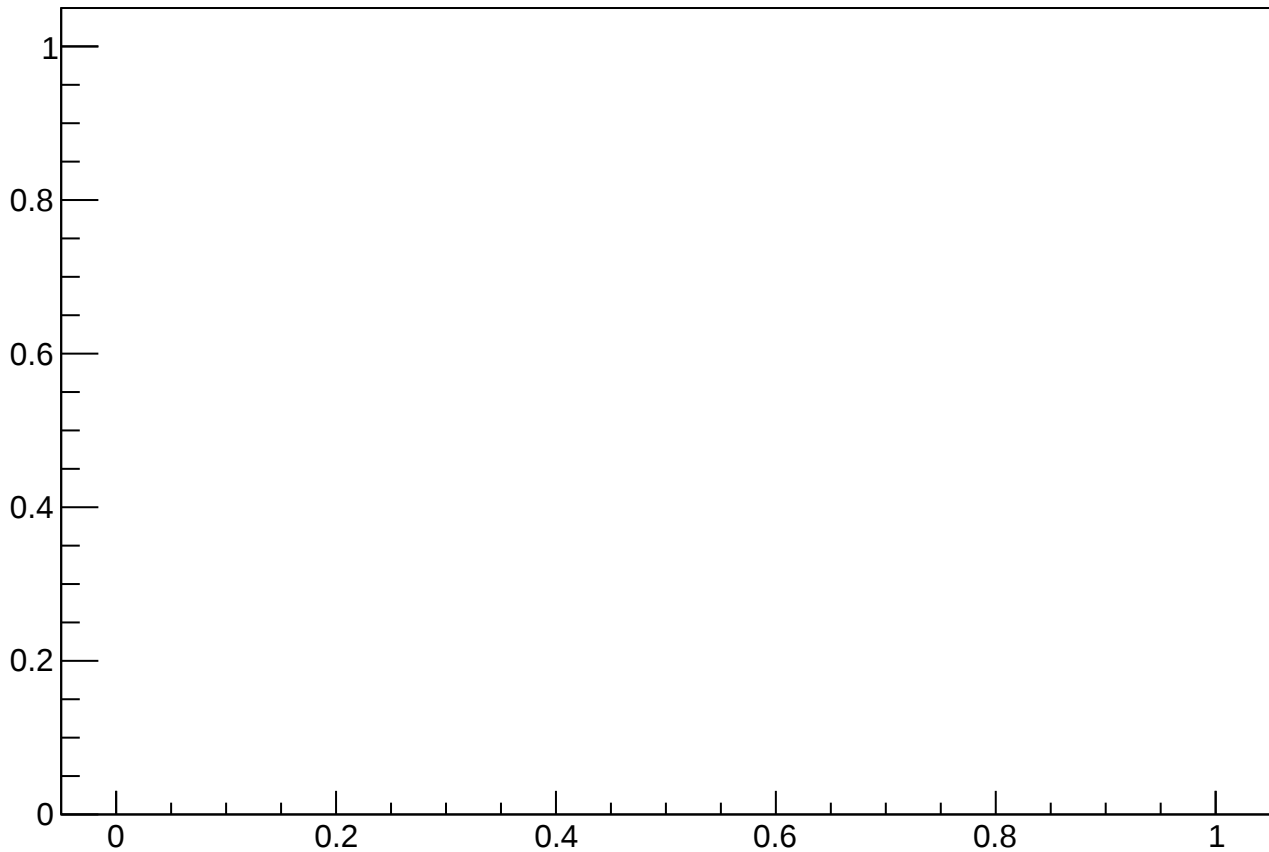
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_correction\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

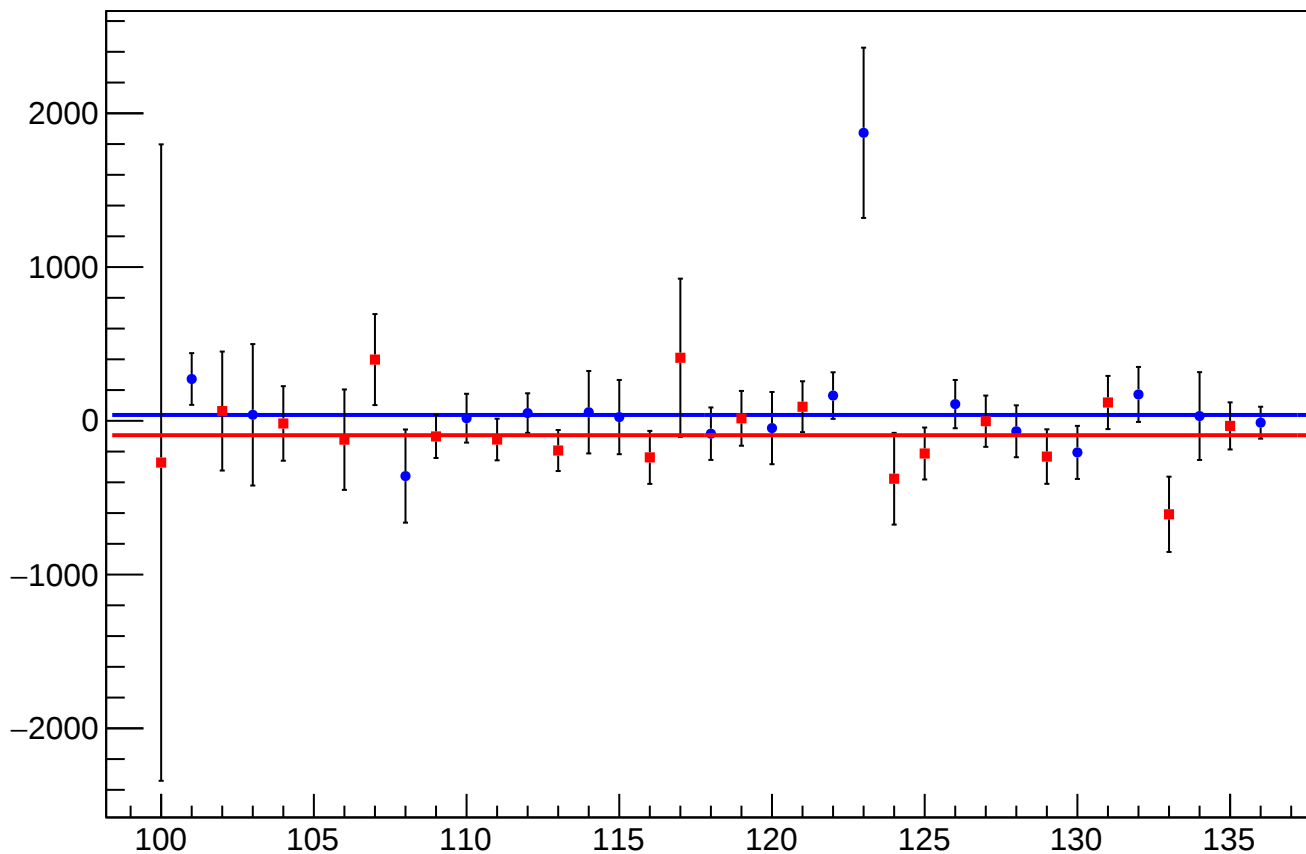
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_mean vs Slug



Right In: 38.126+/-43.548  $\chi^2/\text{NDF}$ : 19.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

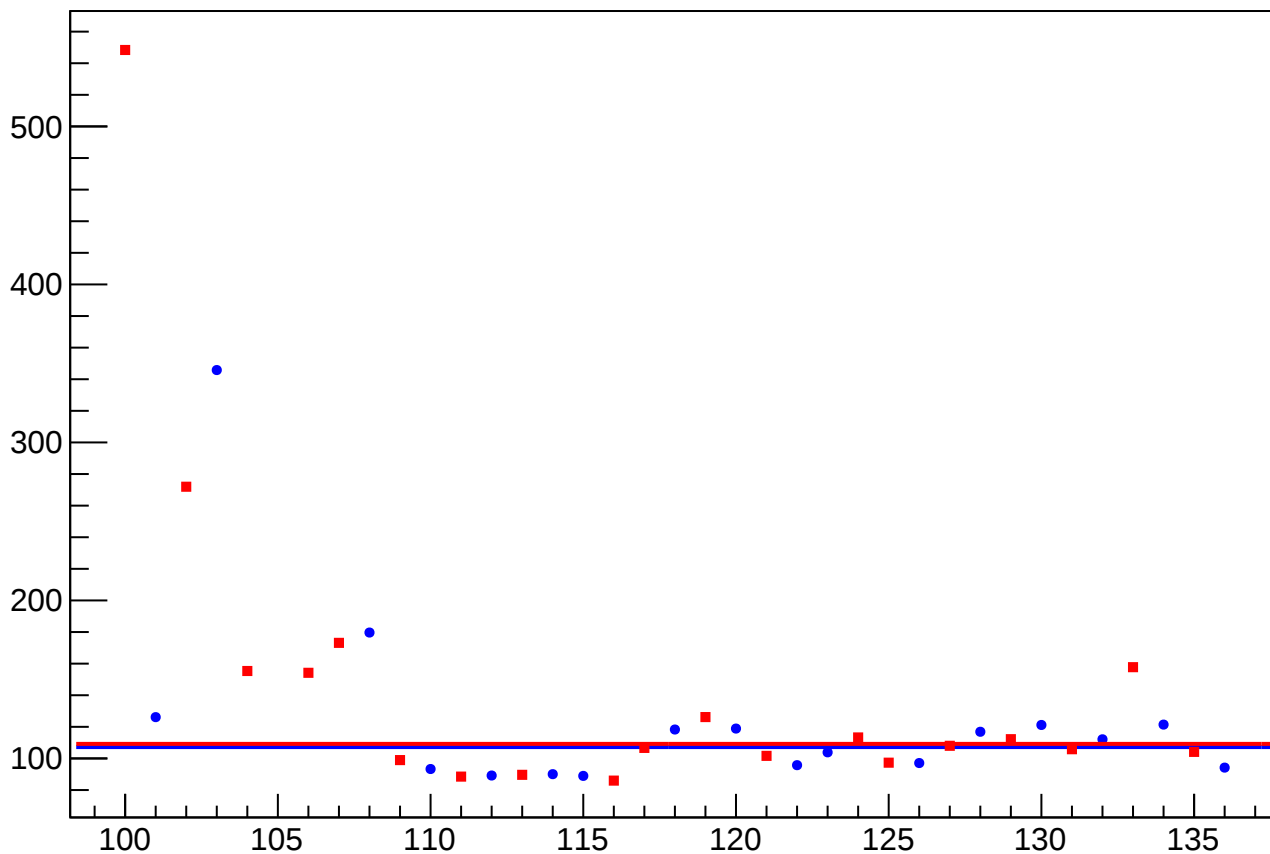
Right Out: -93.622+/-43.913  $\chi^2/\text{NDF}$ : 15.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

38.126+/-43.548  $\chi^2/\text{NDF}$ : 19.4/16

-93.622+/-43.913  $\chi^2/\text{NDF}$ : 15.3/18

# reg\_asym\_sam3\_rms vs Slug



Right In: 107.189+/-0.031  $\chi^2/\text{NDF}$ : 843115.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

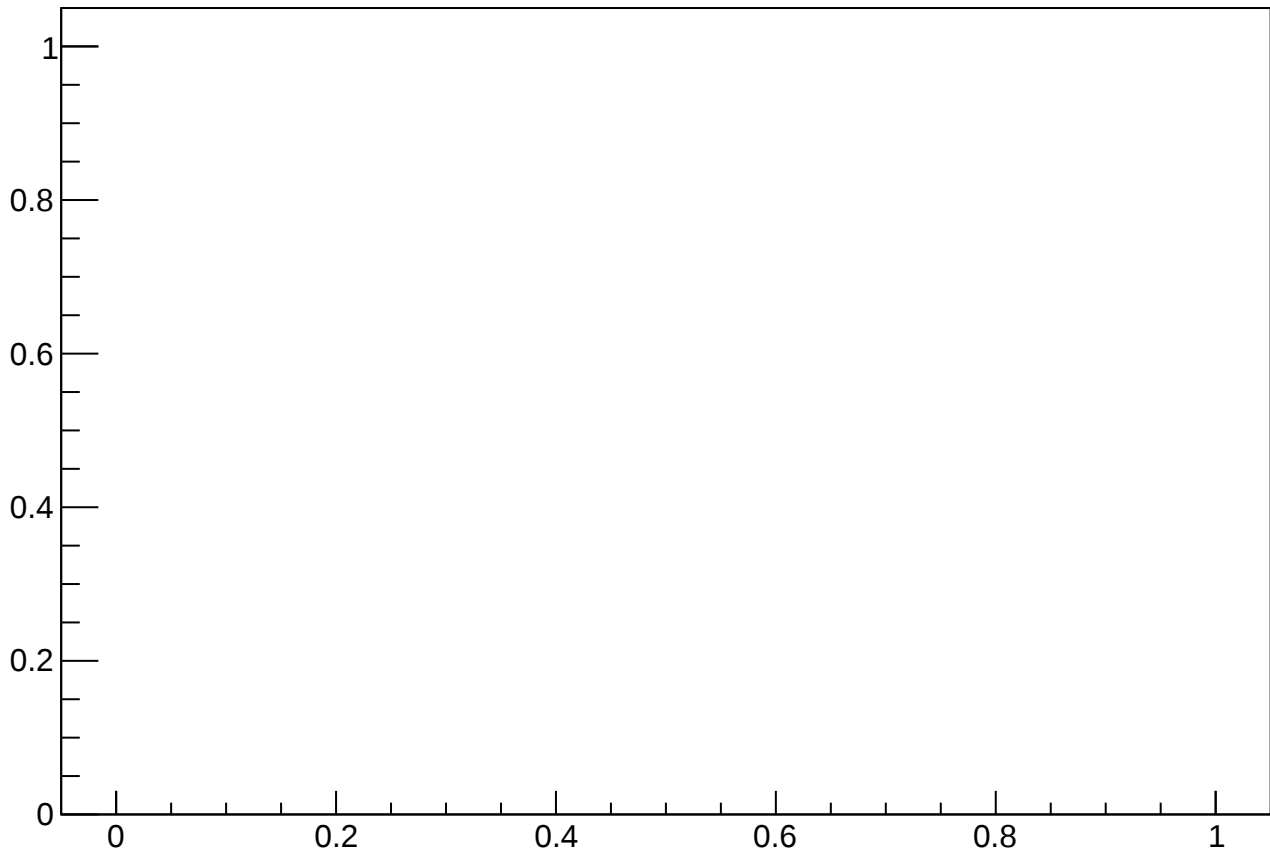
Right Out: 109.210+/-0.031  $\chi^2/\text{NDF}$ : 899556.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

107.189+/-0.031  $\chi^2/\text{NDF}$ : 843115.1/16

109.210+/-0.031  $\chi^2/\text{NDF}$ : 899556.8/18

# asym\_sam3\_correction\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

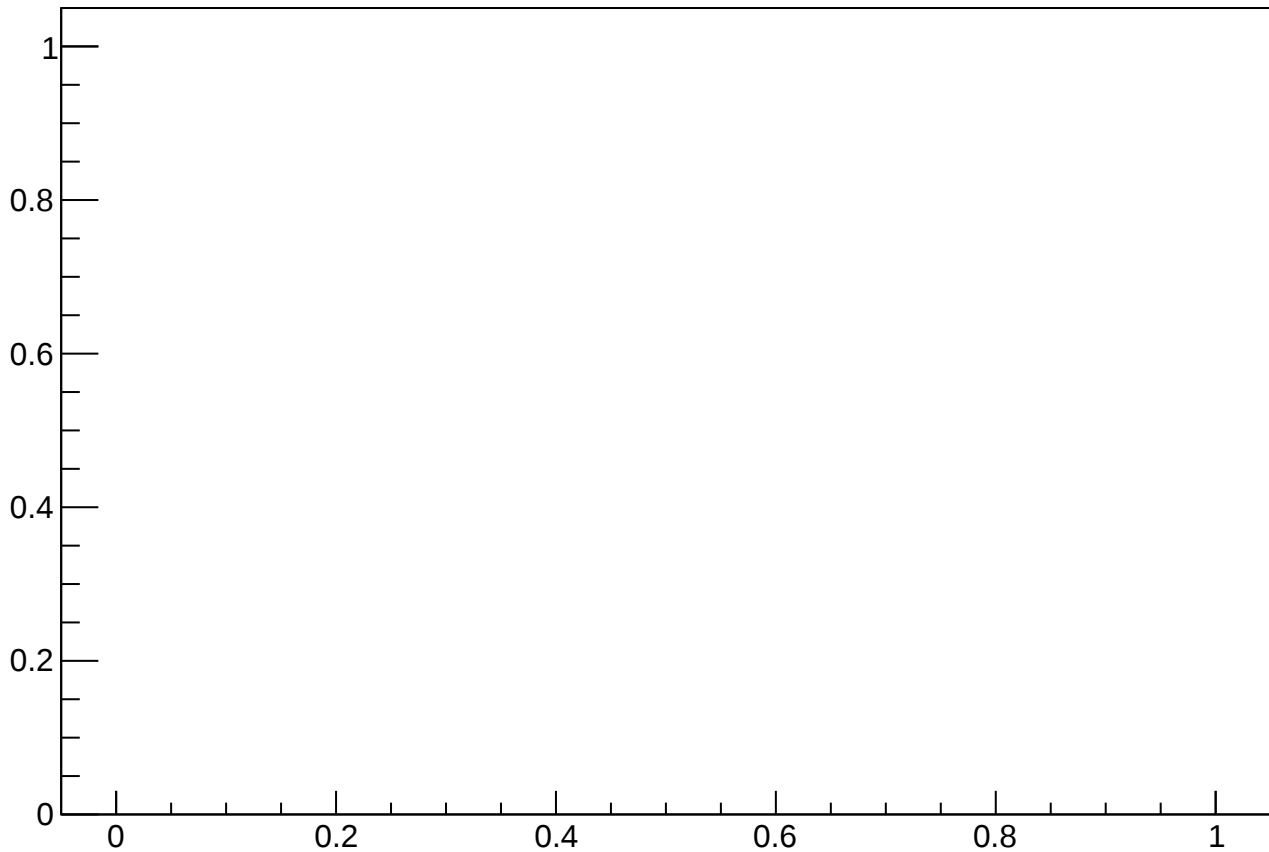
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

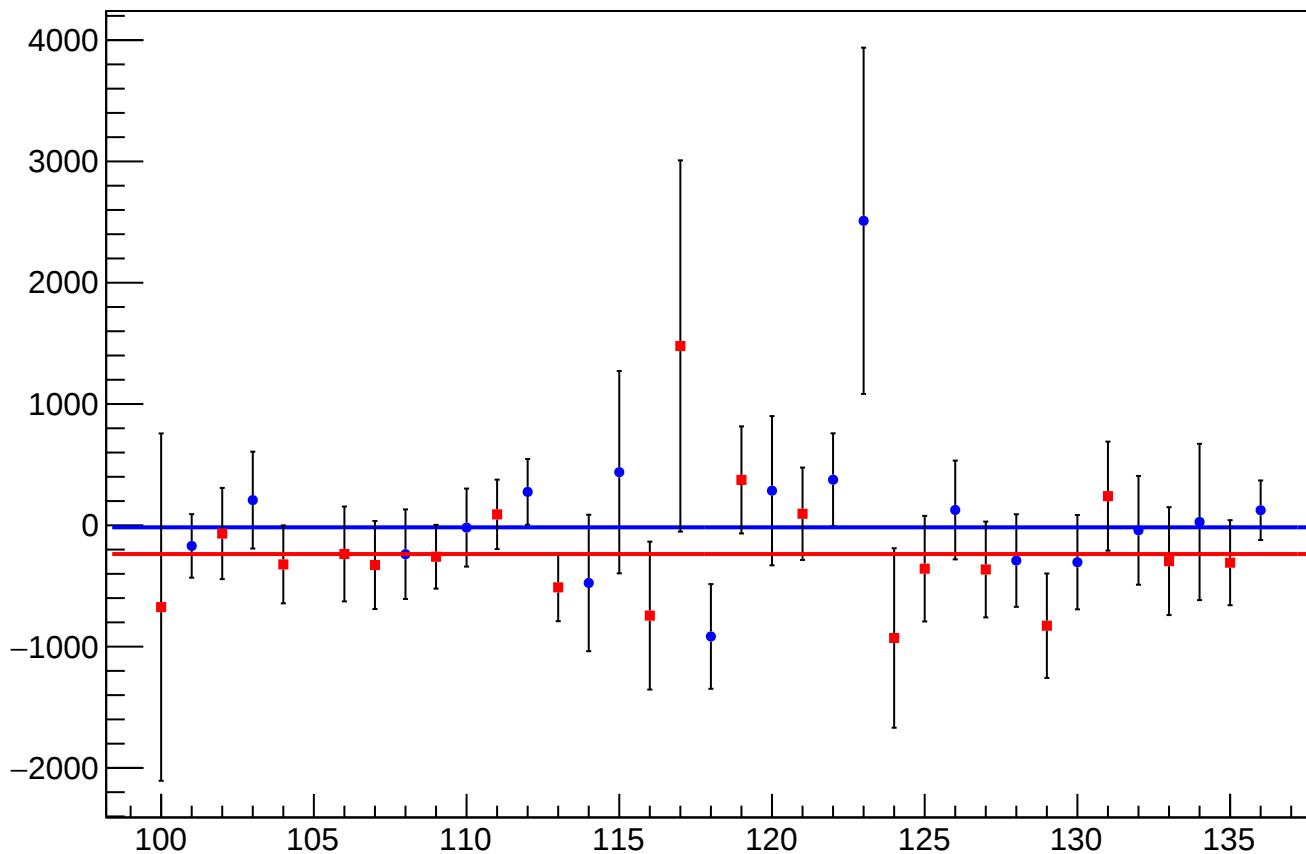
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_mean vs Slug



Right In: -16.459 $\pm$ 93.285  $\chi^2$ /NDF: 13.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

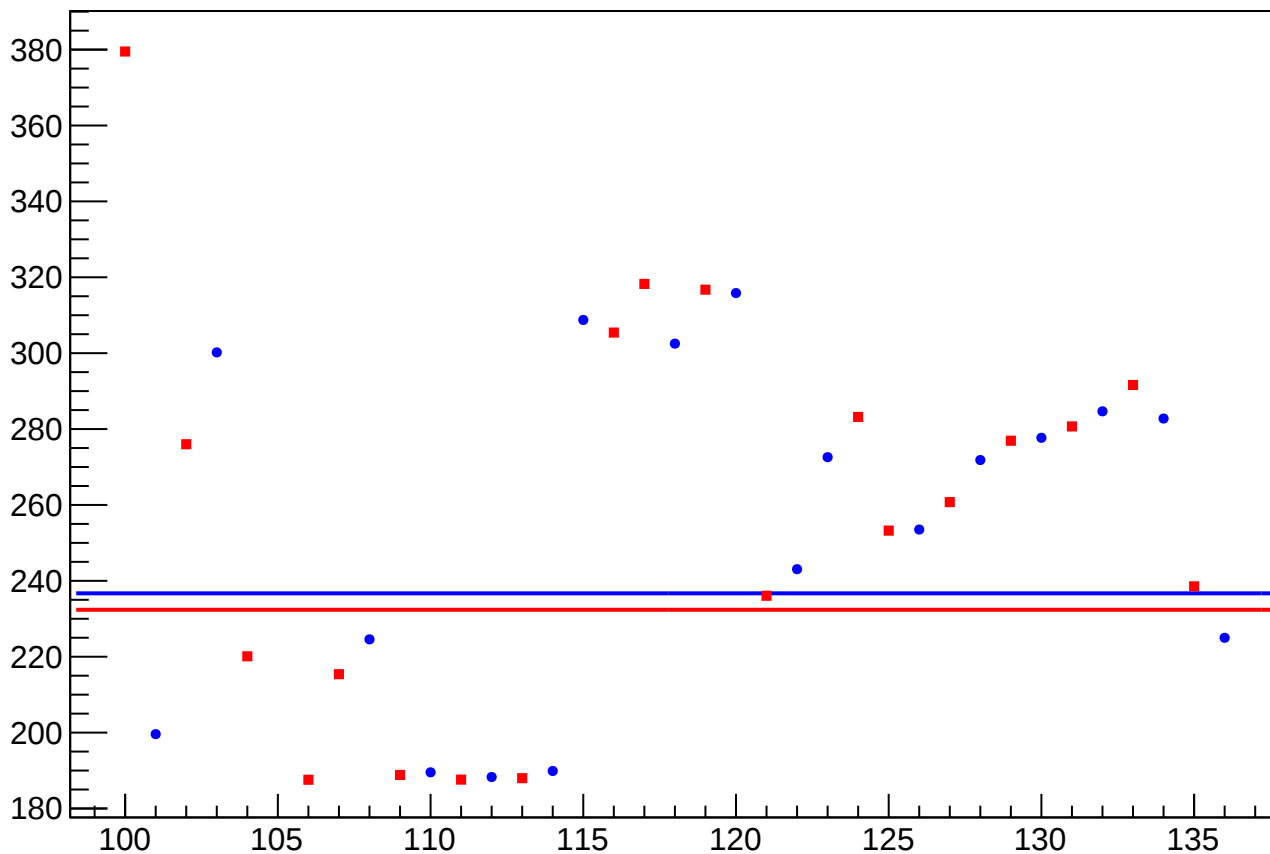
Right Out: -236.737 $\pm$ 90.137  $\chi^2$ /NDF: 11.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-16.459 $\pm$ 93.285  $\chi^2$ /NDF: 13.4/16

-236.737 $\pm$ 90.137  $\chi^2$ /NDF: 11.5/18

# reg\_asym\_sam4\_rms vs Slug



Right In: 236.706+/-0.066  $\chi^2/\text{NDF}$ : 390344.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

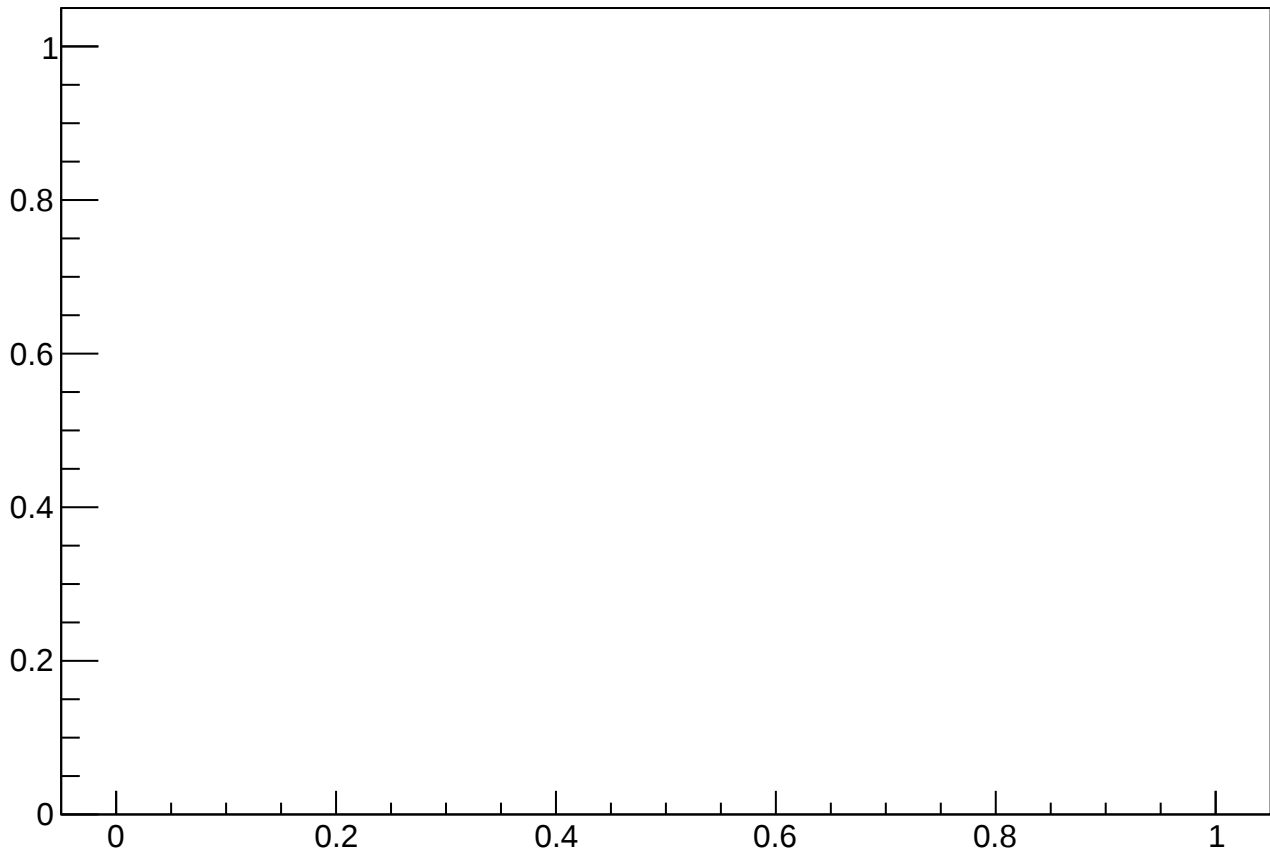
Right Out: 232.372+/-0.064  $\chi^2/\text{NDF}$ : 449103.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

236.706+/-0.066  $\chi^2/\text{NDF}$ : 390344.9/16

232.372+/-0.064  $\chi^2/\text{NDF}$ : 449103.0/18

# asym\_sam4\_correction\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

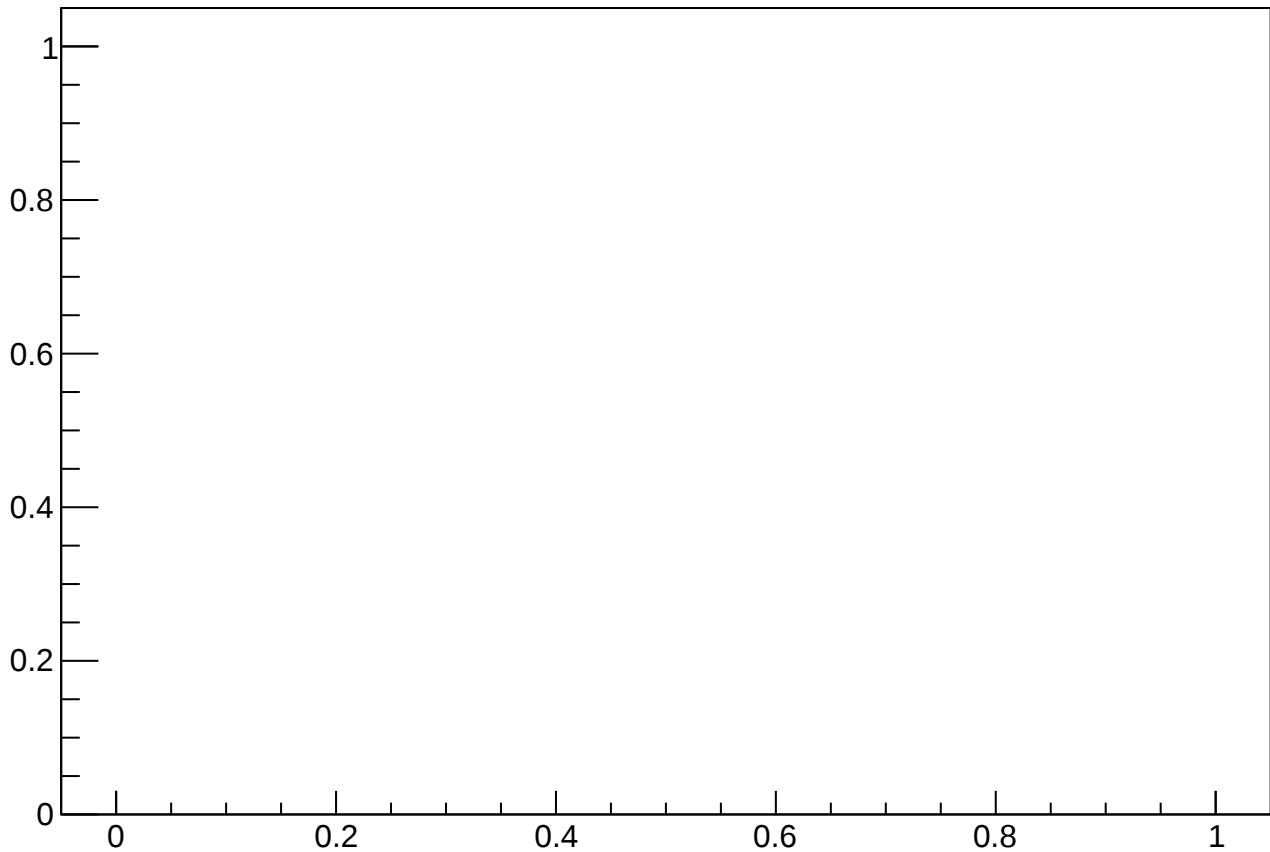
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_correction\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

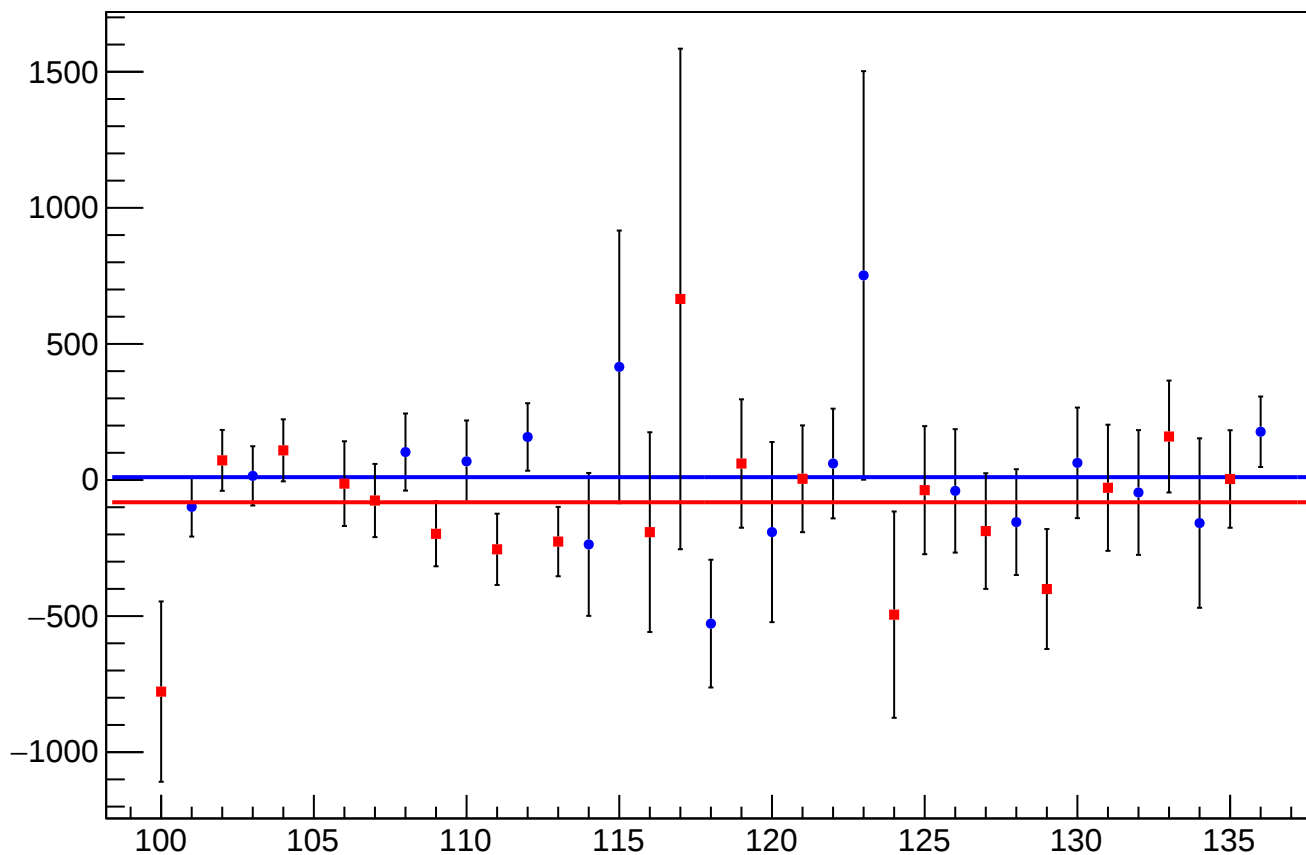
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_mean vs Slug



Right In: 10.530+/-42.294  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

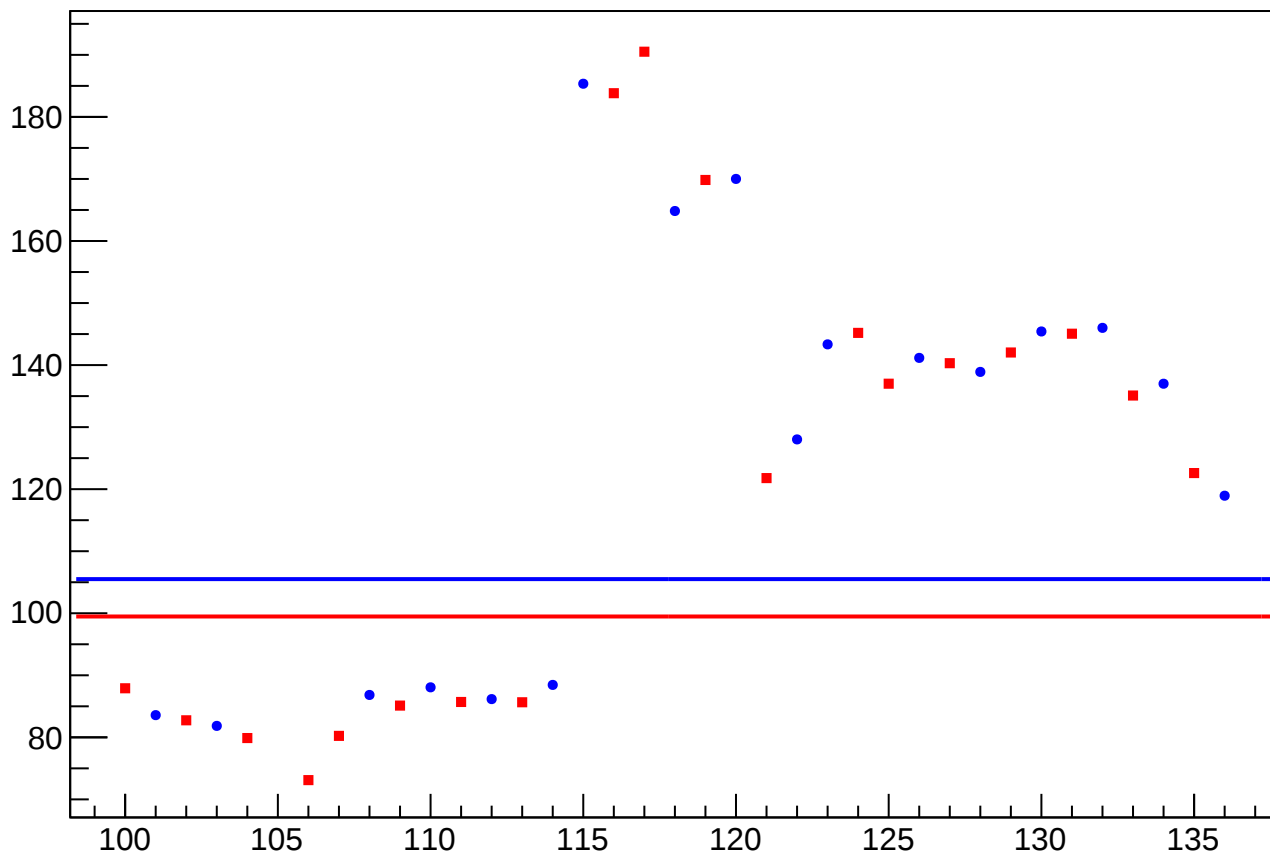
Right Out: -81.797+/-39.333  $\chi^2/\text{NDF}$ : 19.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.530+/-42.294  $\chi^2/\text{NDF}$ : 14.1/16

-81.797+/-39.333  $\chi^2/\text{NDF}$ : 19.8/18

# reg\_asym\_sam5\_rms vs Slug



Right In: 105.503+/-0.030  $\chi^2/\text{NDF}$ : 869022.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

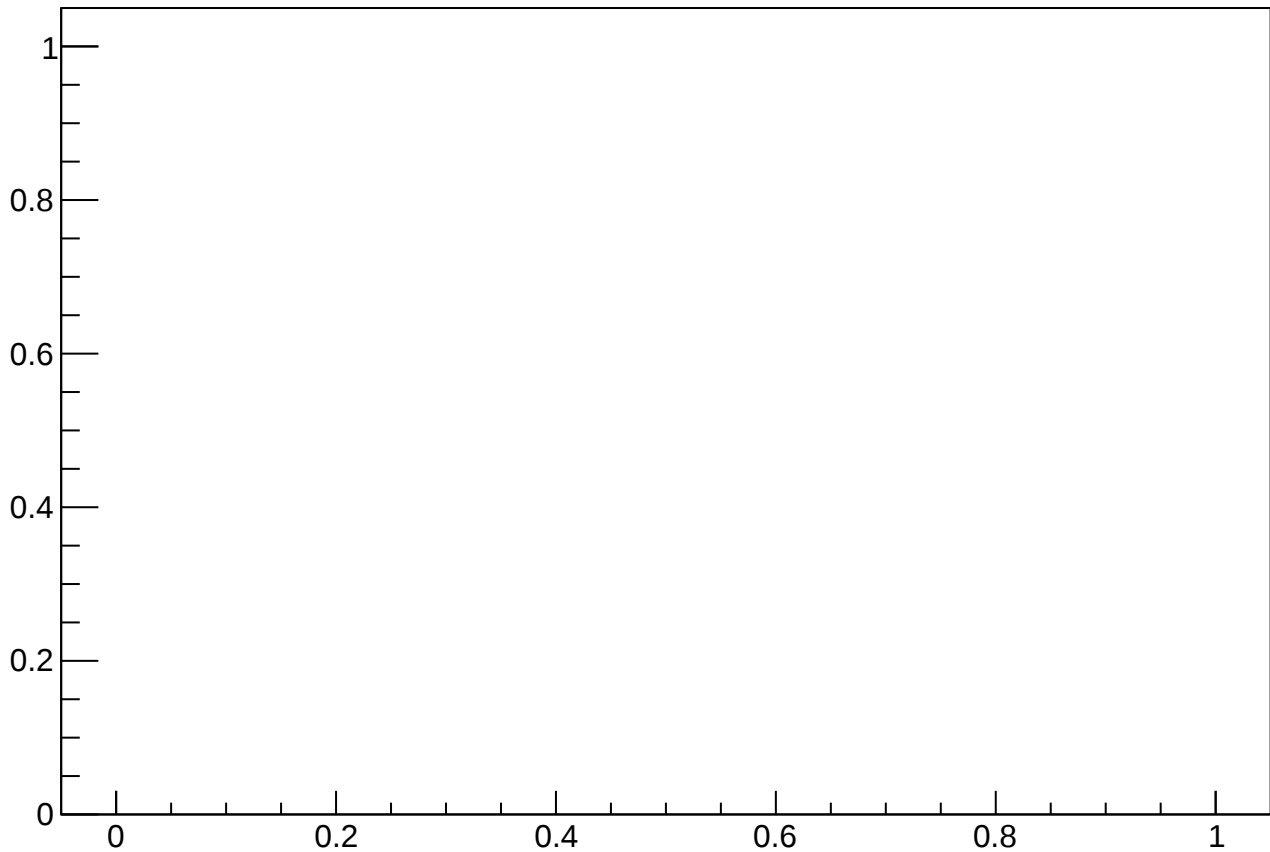
Right Out: 99.477+/-0.028  $\chi^2/\text{NDF}$ : 1007255.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

105.503+/-0.030  $\chi^2/\text{NDF}$ : 869022.6/16

99.477+/-0.028  $\chi^2/\text{NDF}$ : 1007255.5/18

# asym\_sam5\_correction\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

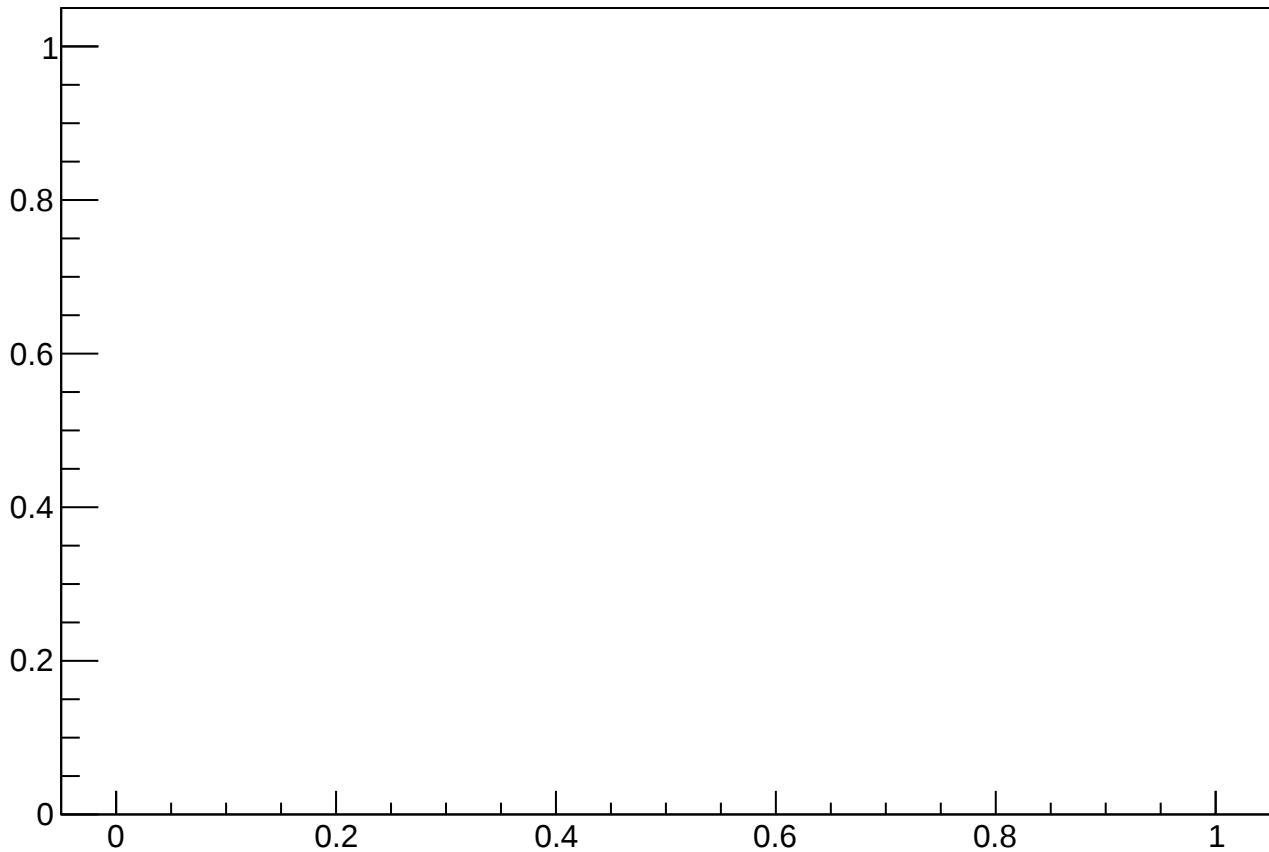
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

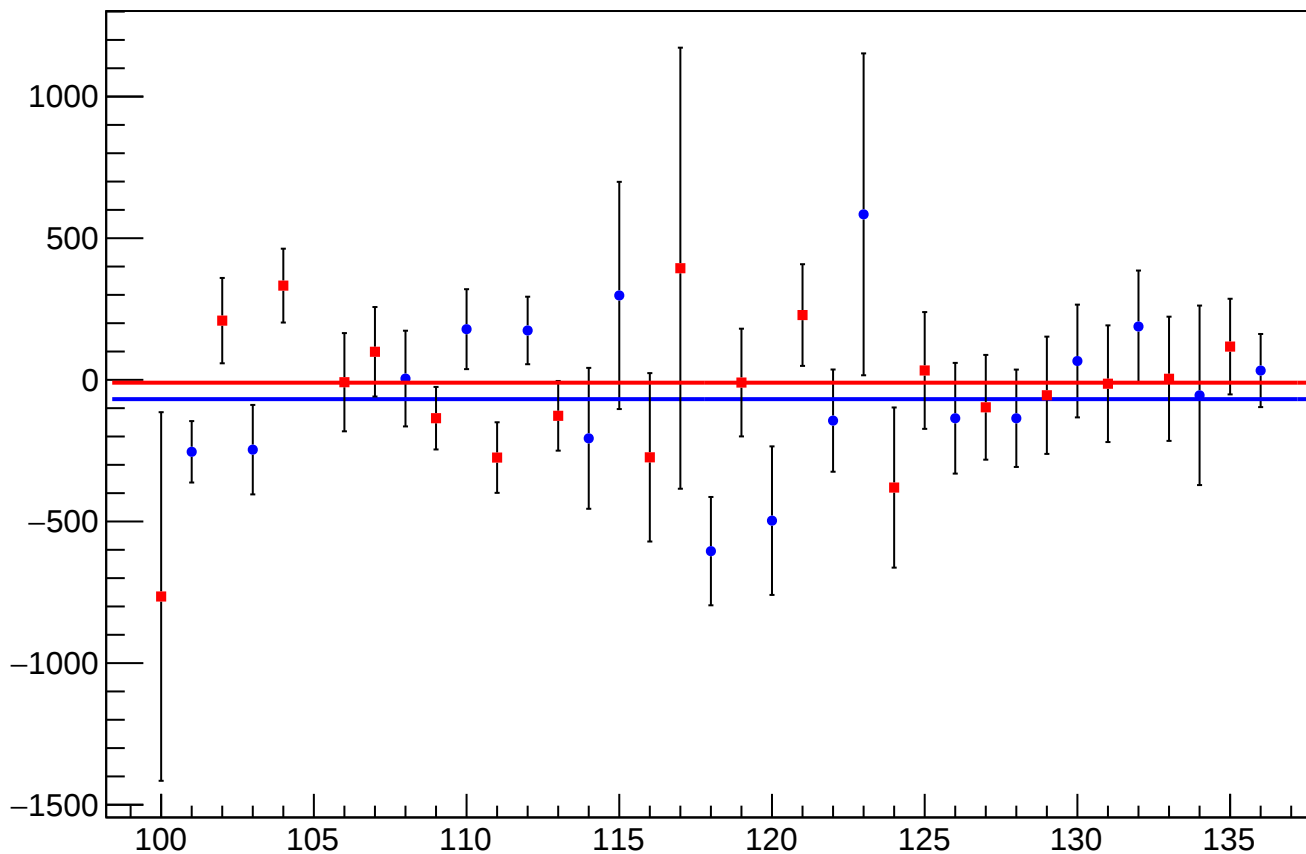
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_mean vs Slug



Right In:  $-68.111 \pm 42.265$   $\chi^2/\text{NDF}$ : 27.8/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

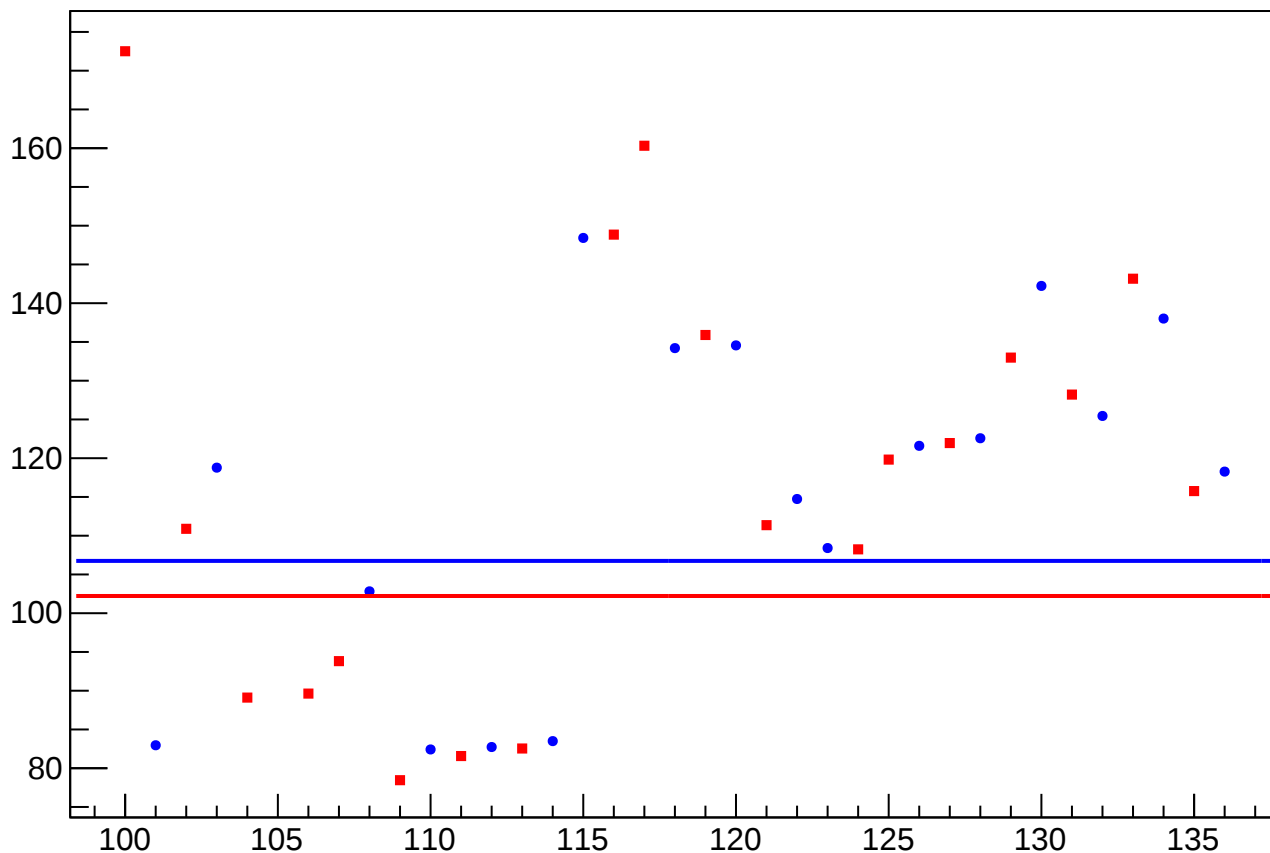
Right Out:  $-10.021 \pm 39.809$   $\chi^2/\text{NDF}$ : 23.0/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-68.111 \pm 42.265$   $\chi^2/\text{NDF}$ : 27.8/16

$-10.021 \pm 39.809$   $\chi^2/\text{NDF}$ : 23.0/18

# reg\_asym\_sam6\_rms vs Slug



Right In: 106.749+/-0.030  $\chi^2/\text{NDF}$ : 501742.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

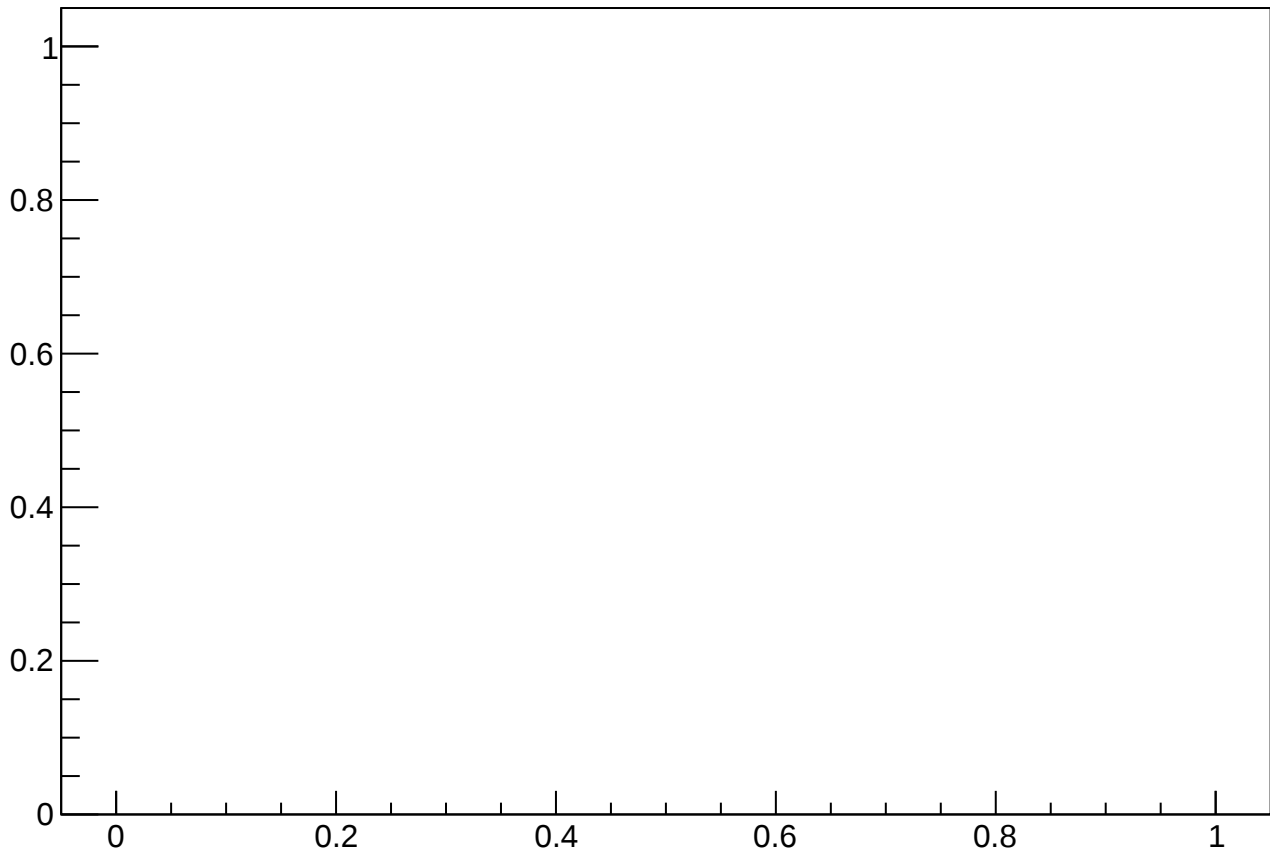
Right Out: 102.222+/-0.028  $\chi^2/\text{NDF}$ : 590412.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

106.749+/-0.030  $\chi^2/\text{NDF}$ : 501742.8/16

102.222+/-0.028  $\chi^2/\text{NDF}$ : 590412.1/18

# asym\_sam6\_correction\_mean vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

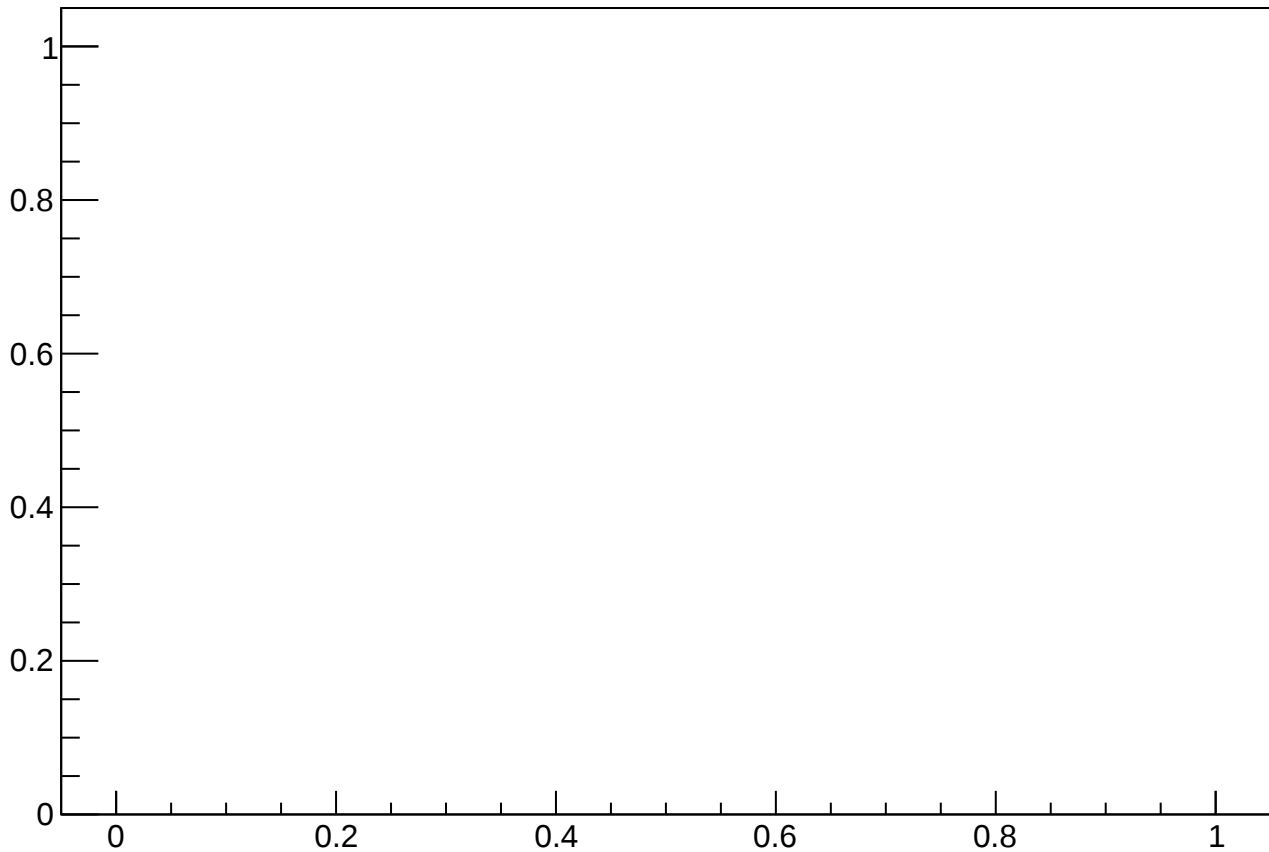
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_correction\_rms vs Slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

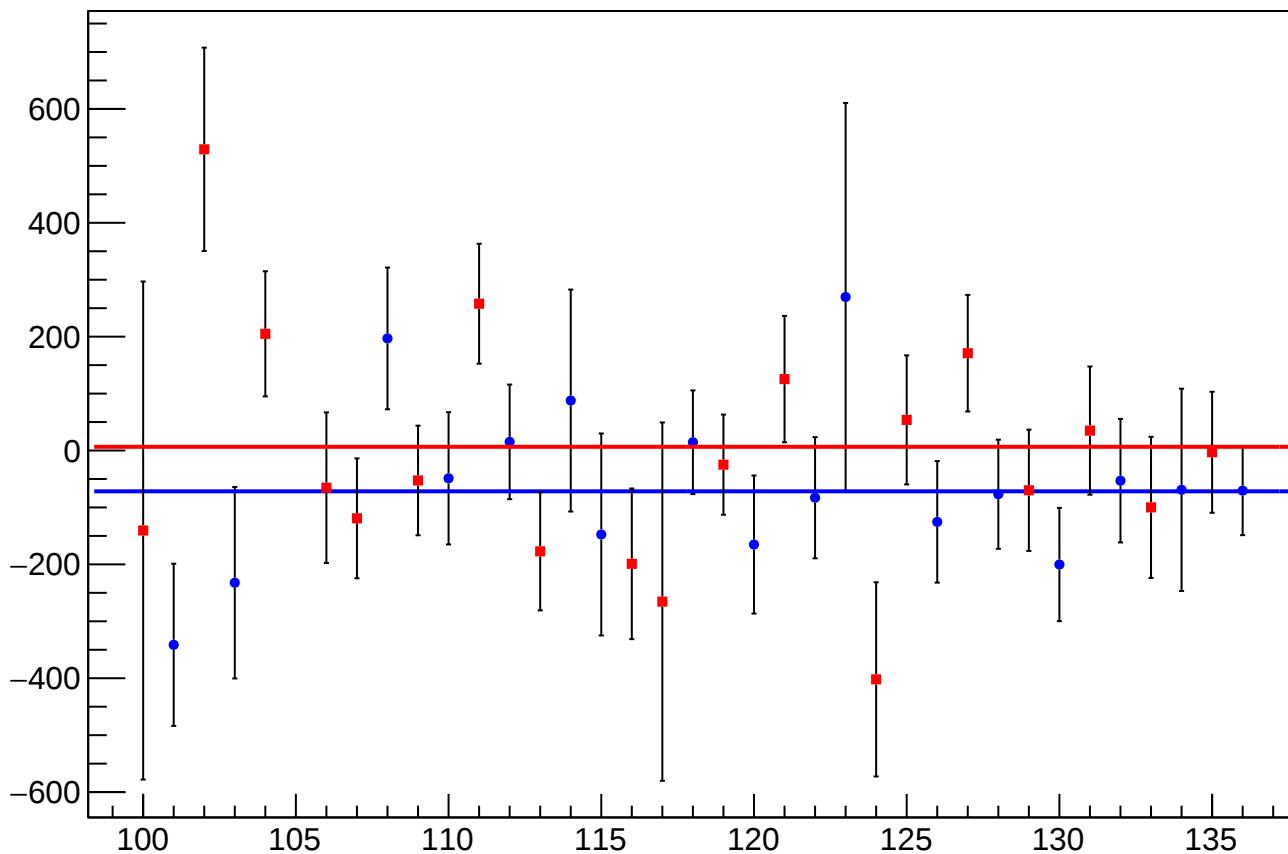
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_mean vs Slug



Right In:  $-71.669 \pm 28.358$   $\chi^2/\text{NDF}: 15.2/16$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

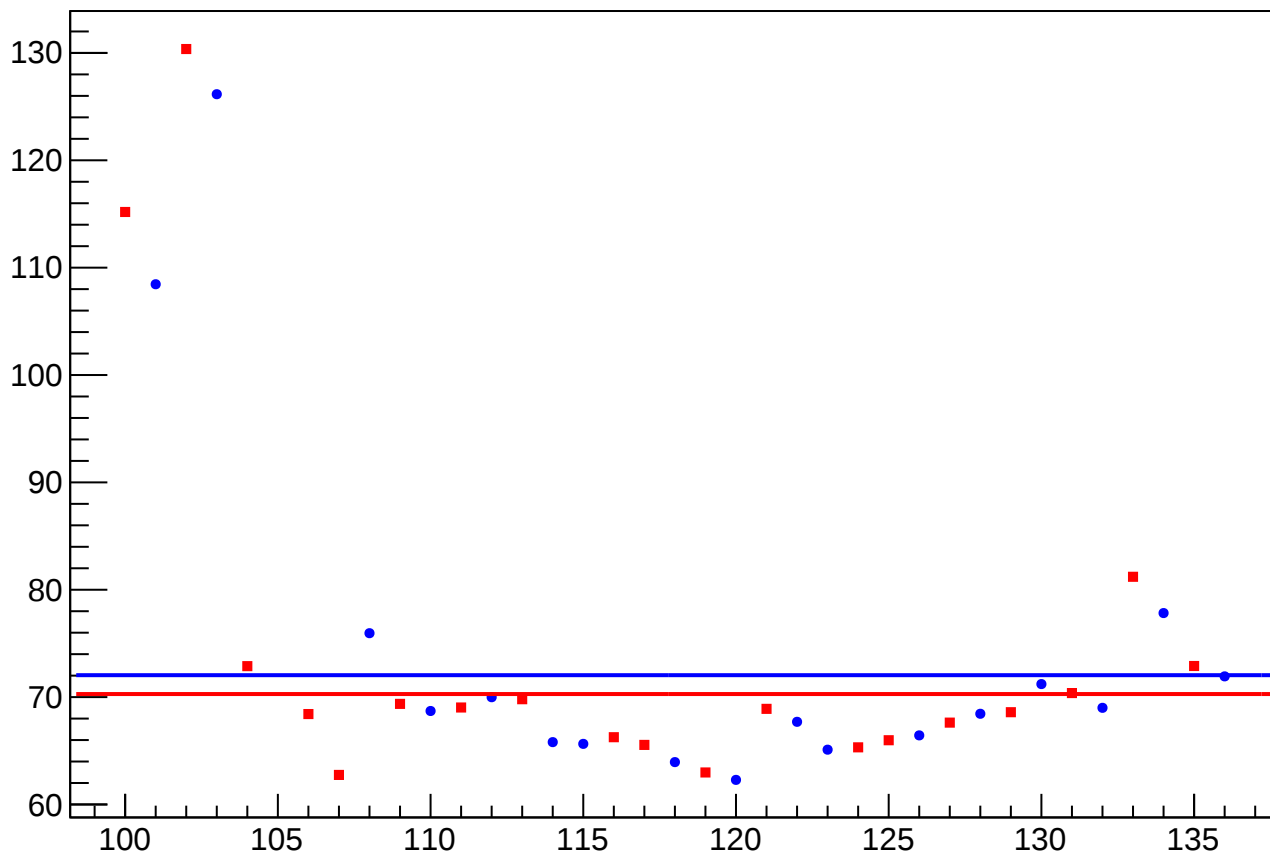
Right Out:  $6.523 \pm 27.079$   $\chi^2/\text{NDF}: 37.1/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-71.669 \pm 28.358$   $\chi^2/\text{NDF}: 15.2/16$

$6.523 \pm 27.079$   $\chi^2/\text{NDF}: 37.1/18$

# reg\_asym\_sam7\_rms vs Slug



Right In: 72.042+/-0.020  $\chi^2/\text{NDF}$ : 391971.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

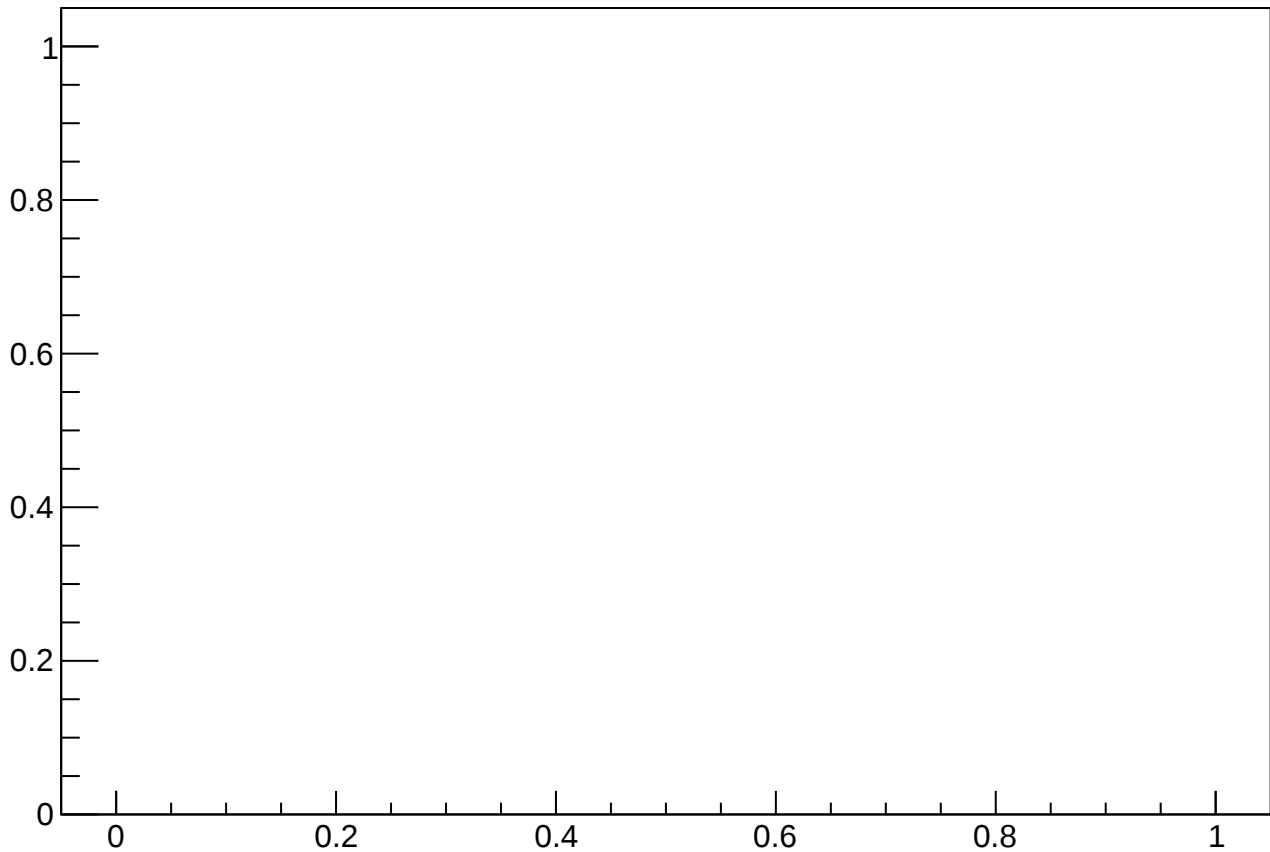
Right Out: 70.285+/-0.019  $\chi^2/\text{NDF}$ : 299367.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

72.042+/-0.020  $\chi^2/\text{NDF}$ : 391971.7/16

70.285+/-0.019  $\chi^2/\text{NDF}$ : 299367.0/18

# asym\_sam7\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

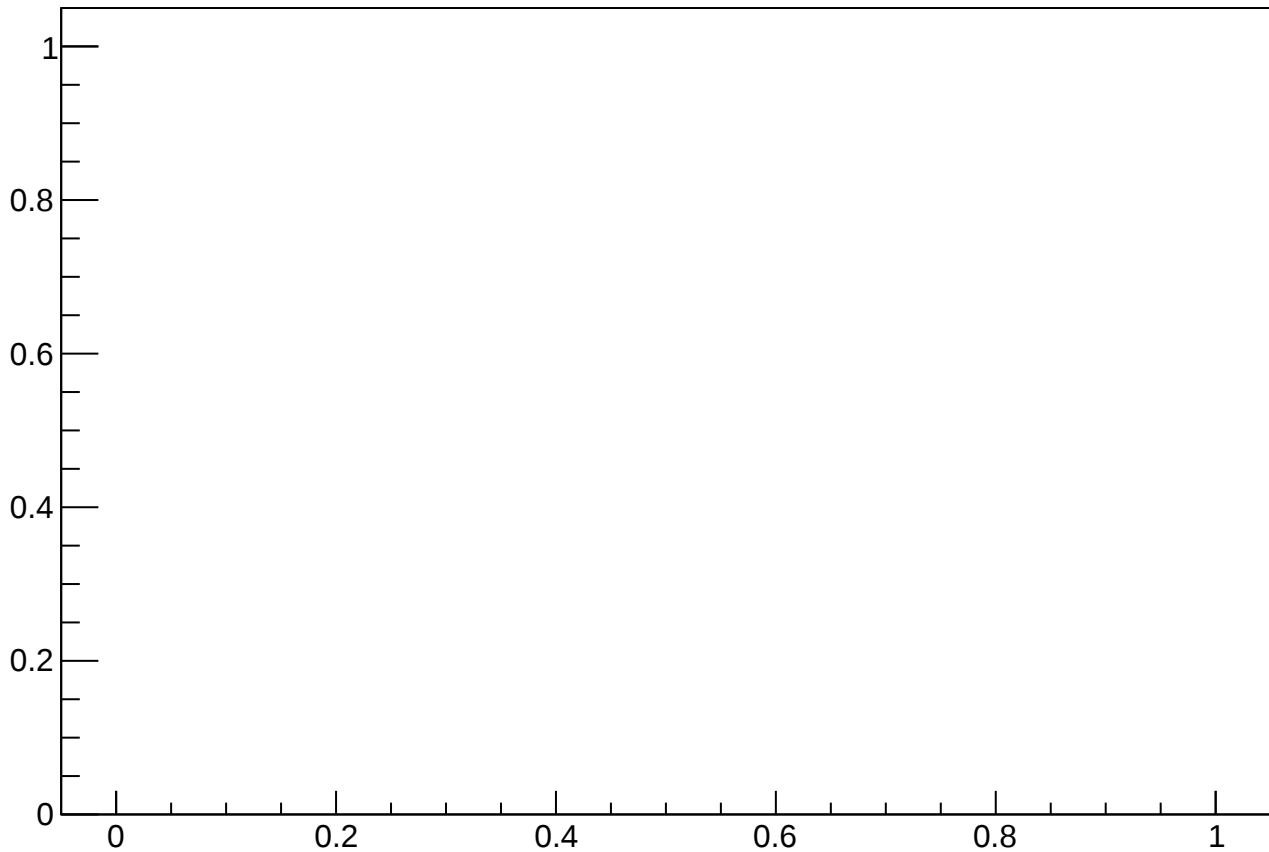
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

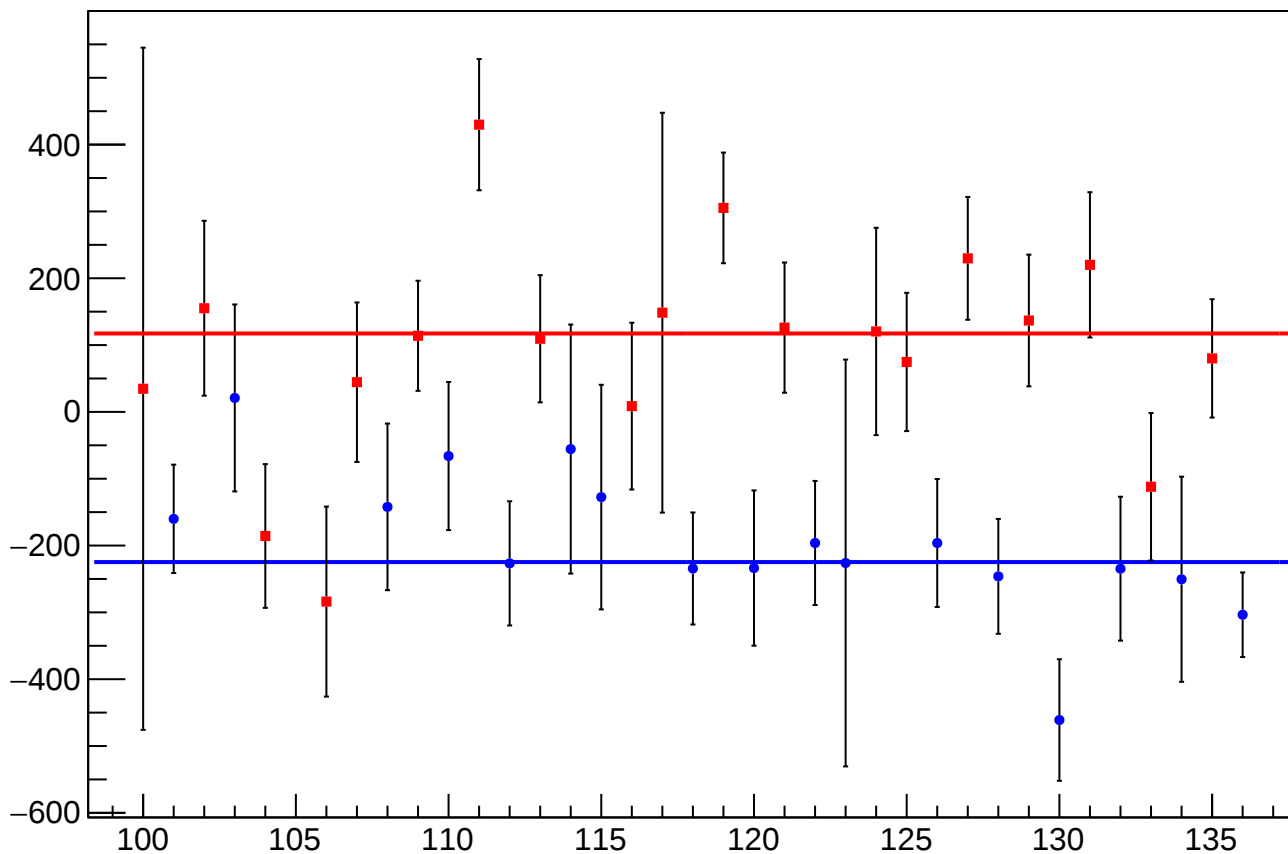
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam8\_mean vs Slug



Right In: -224.727+/-24.880  $\chi^2/\text{NDF}$ : 16.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

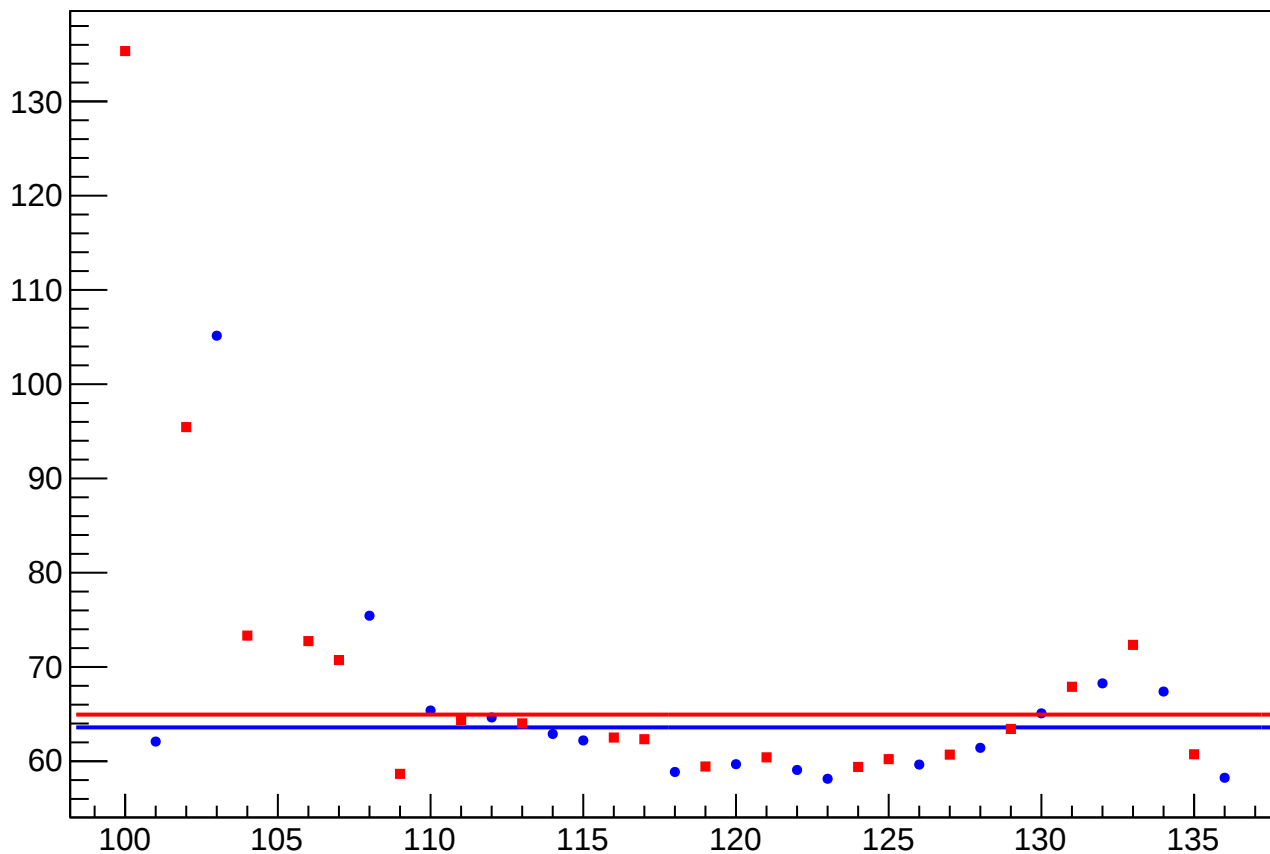
Right Out: 117.338+/-24.945  $\chi^2/\text{NDF}$ : 39.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-224.727+/-24.880  $\chi^2/\text{NDF}$ : 16.0/16

117.338+/-24.945  $\chi^2/\text{NDF}$ : 39.5/18

# reg\_asym\_sam8\_rms vs Slug



Right In: 63.589+/-0.018     $\chi^2/\text{NDF}$ : 234601.0/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

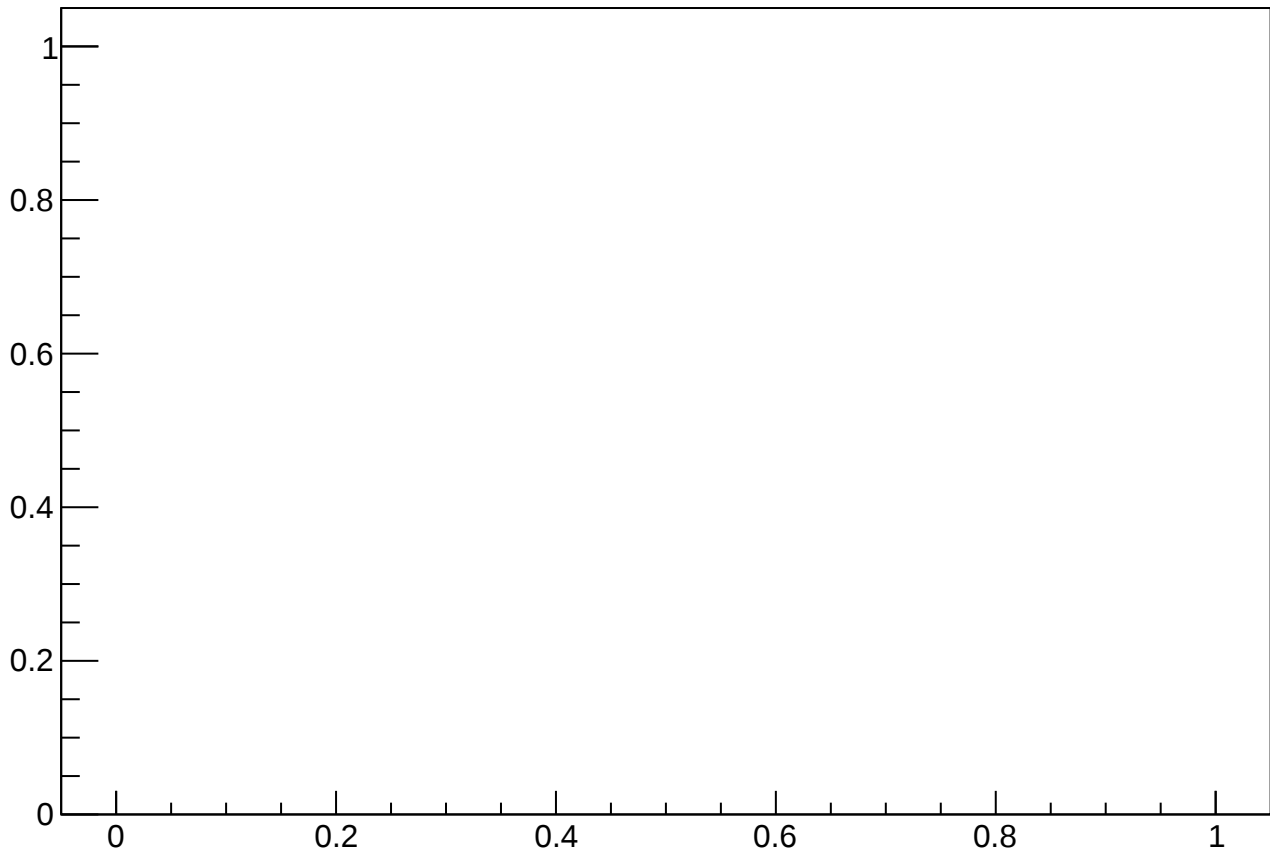
Right Out: 64.948+/-0.018     $\chi^2/\text{NDF}$ : 222011.6/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

63.589+/-0.018     $\chi^2/\text{NDF}$ : 234601.0/16

64.948+/-0.018     $\chi^2/\text{NDF}$ : 222011.6/18

# asym\_sam8\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

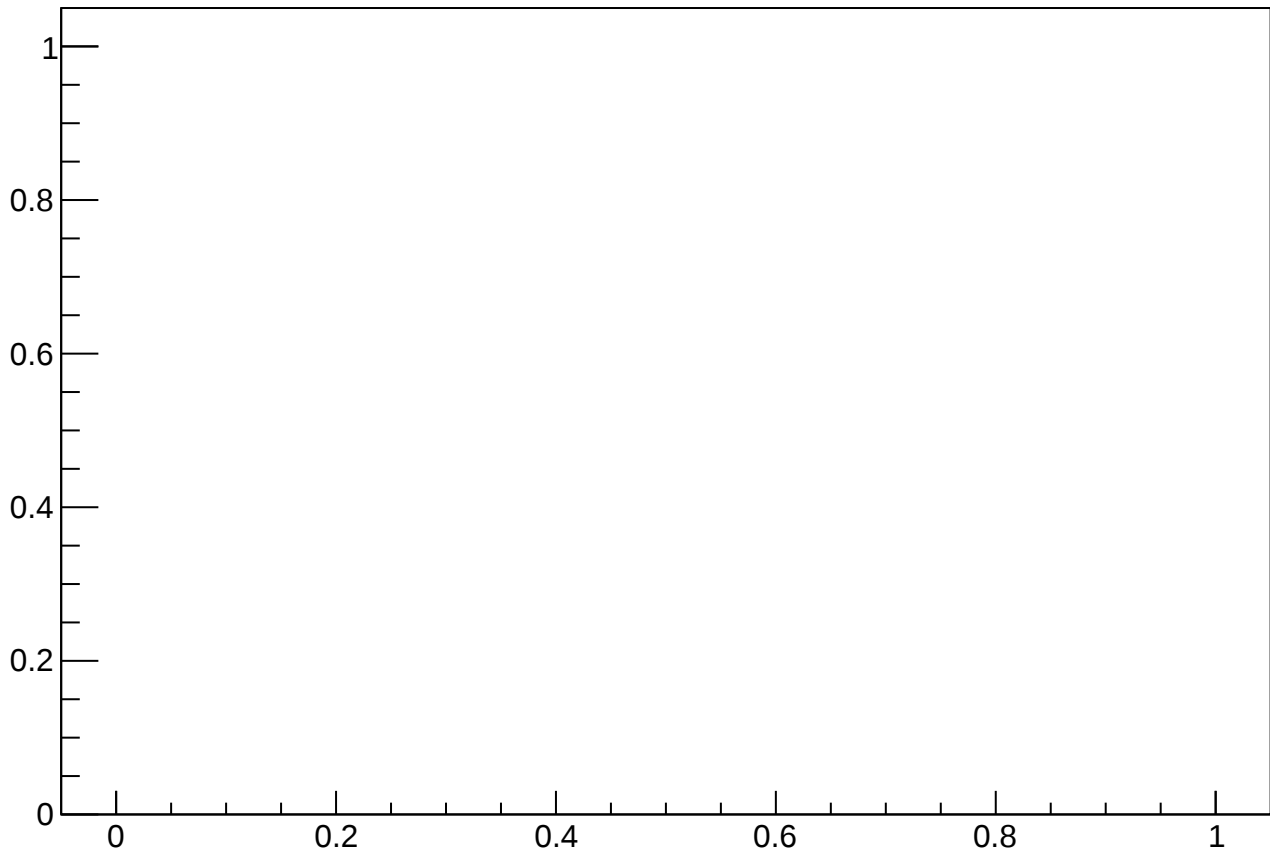
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

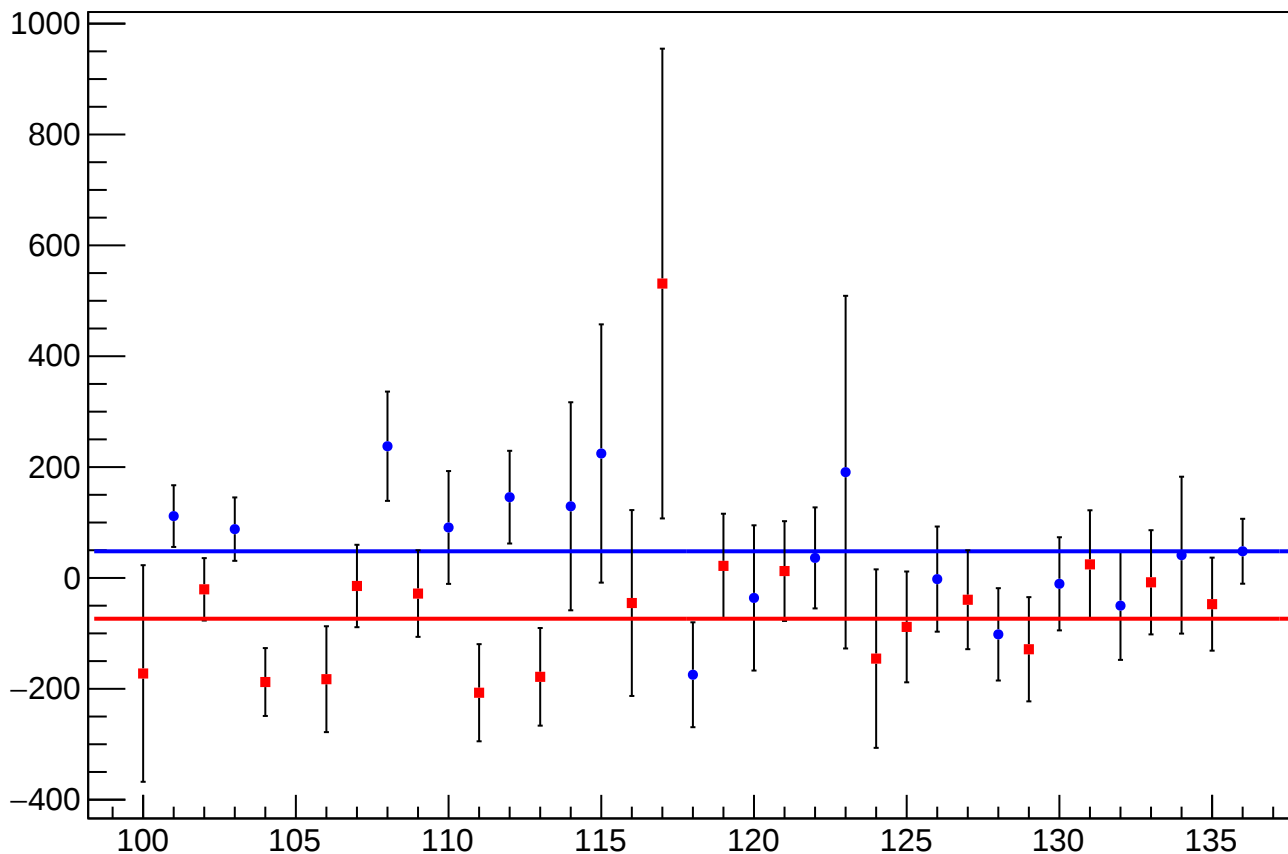
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 48.109+/-21.510  $\chi^2/\text{NDF}$ : 19.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

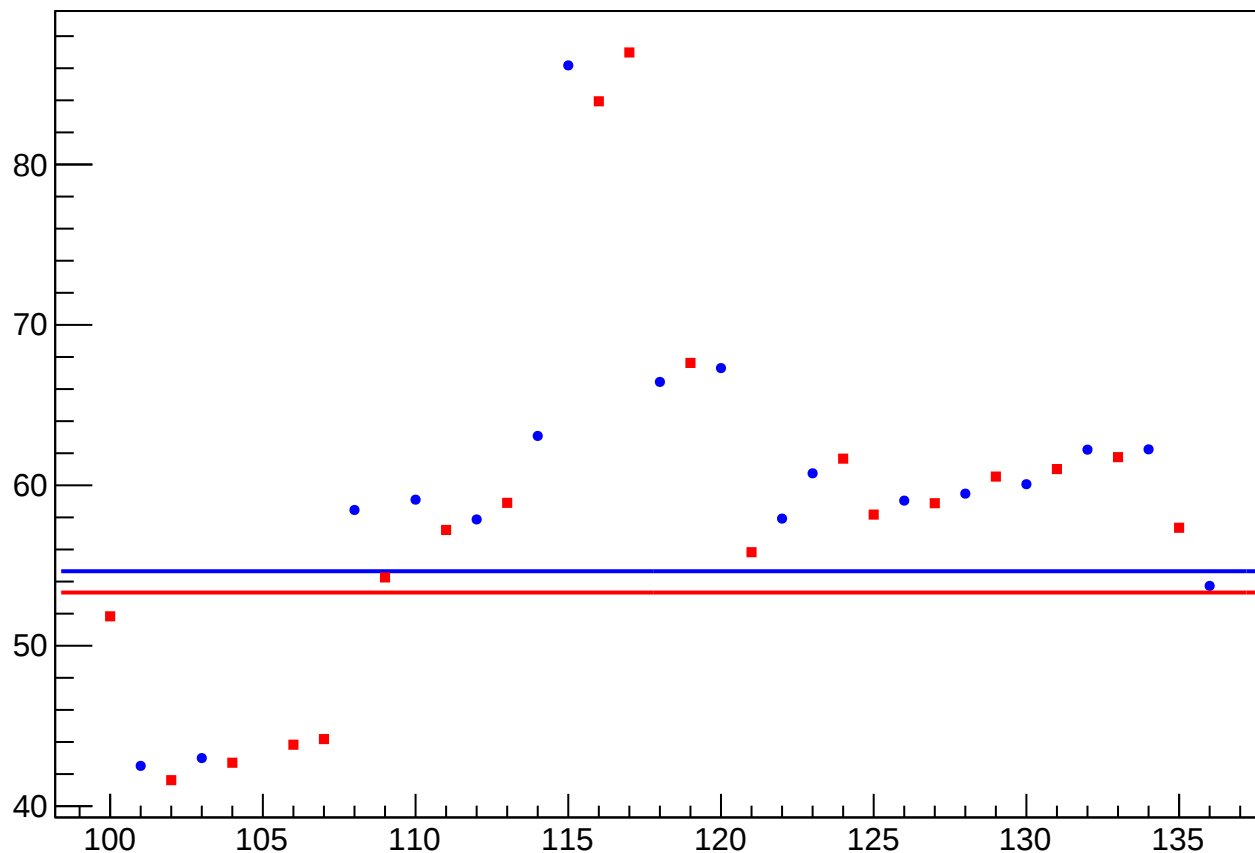
Right Out: -73.542+/-20.683  $\chi^2/\text{NDF}$ : 16.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

48.109+/-21.510  $\chi^2/\text{NDF}$ : 19.0/16

-73.542+/-20.683  $\chi^2/\text{NDF}$ : 16.9/18

# reg\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 54.645 $\pm$ 0.015  $\chi^2$ /NDF: 319300.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

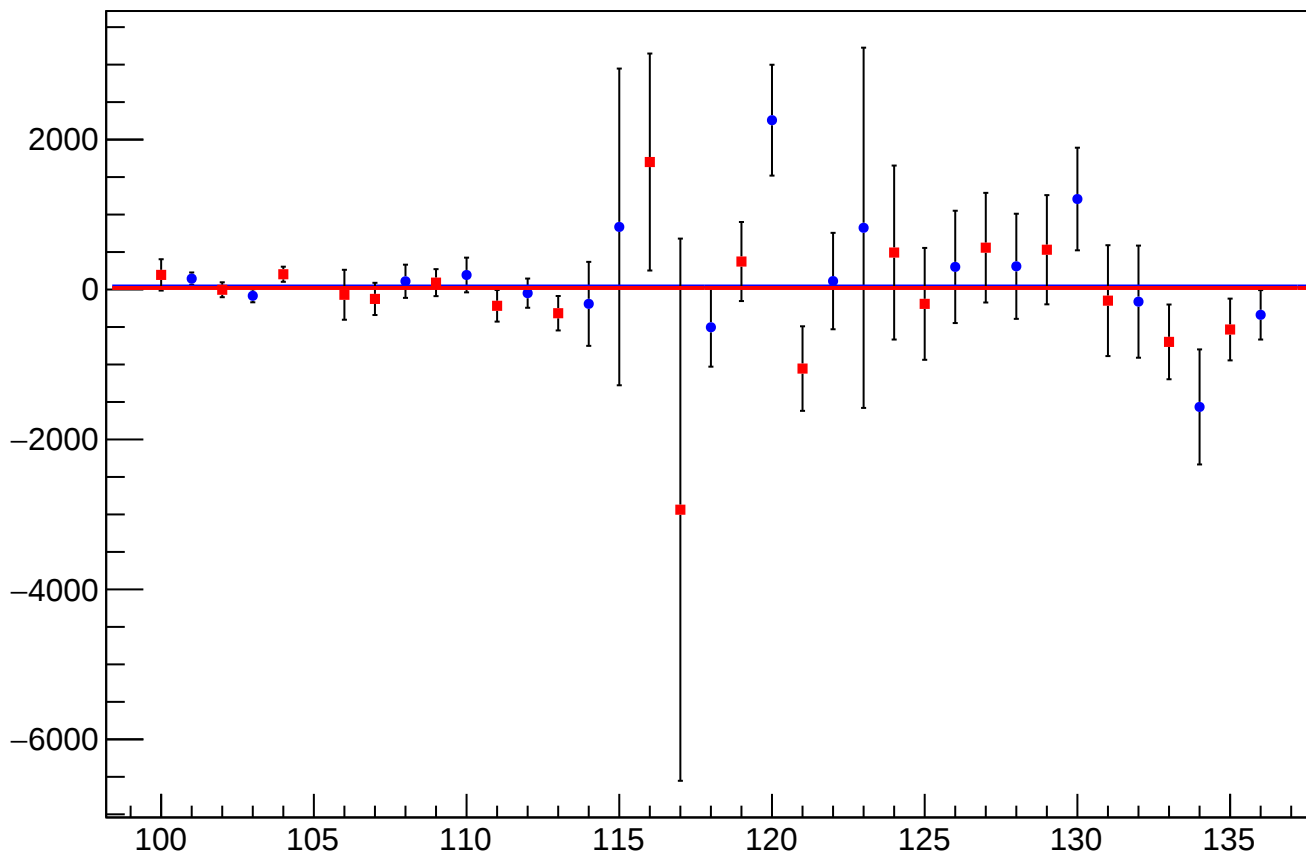
Right Out: 53.316 $\pm$ 0.015  $\chi^2$ /NDF: 398814.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

54.645 $\pm$ 0.015  $\chi^2$ /NDF: 319300.2/16

53.316 $\pm$ 0.015  $\chi^2$ /NDF: 398814.7/18

# asym\_sam\_15\_avg\_correction\_mean vs Slug



Right In: 40.207+/-51.542  $\chi^2/\text{NDF}$ : 23.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

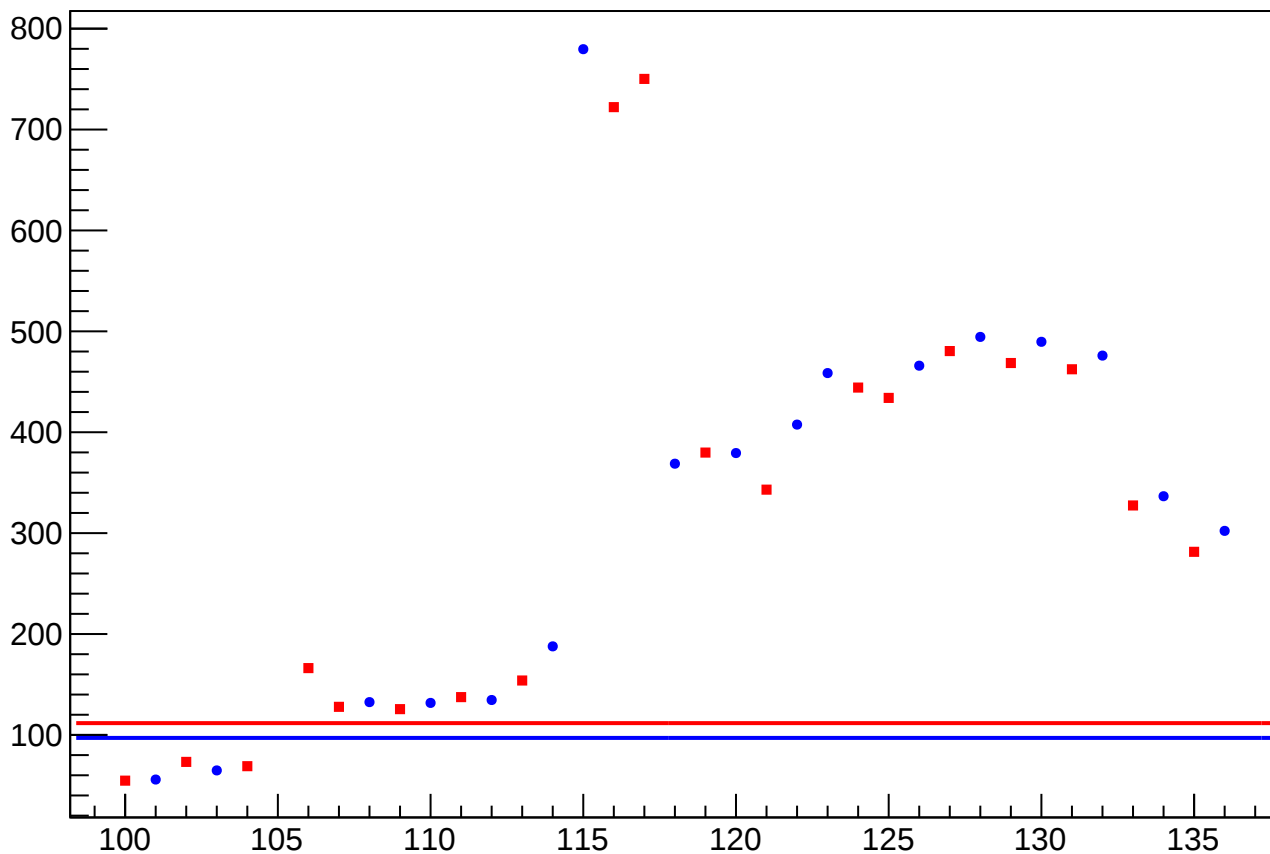
Right Out: 20.788+/-53.413  $\chi^2/\text{NDF}$ : 19.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

40.207+/-51.542  $\chi^2/\text{NDF}$ : 23.9/16

20.788+/-53.413  $\chi^2/\text{NDF}$ : 19.5/18

# asym\_sam\_15\_avg\_correction\_rms vs Slug



Right In: 97.039+/-0.036  $\chi^2$ /NDF: 5819709.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

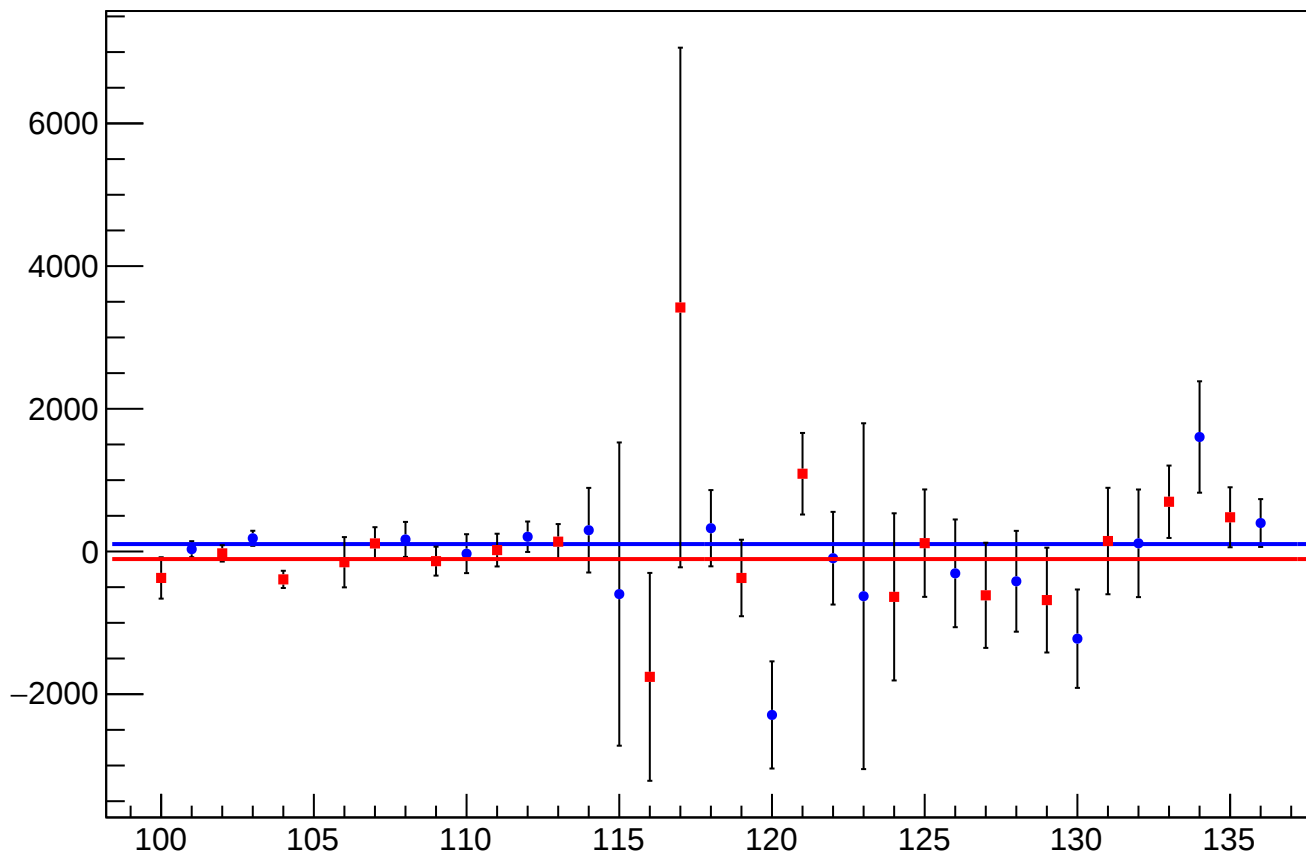
Right Out: 111.694+/-0.038  $\chi^2$ /NDF: 4942647.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

97.039+/-0.036  $\chi^2$ /NDF: 5819709.2/16

111.694+/-0.038  $\chi^2$ /NDF: 4942647.4/18

# asym\_sam\_15\_avg\_mean vs Slug



Right In: 104.001+/-63.156  $\chi^2/\text{NDF}$ : 21.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

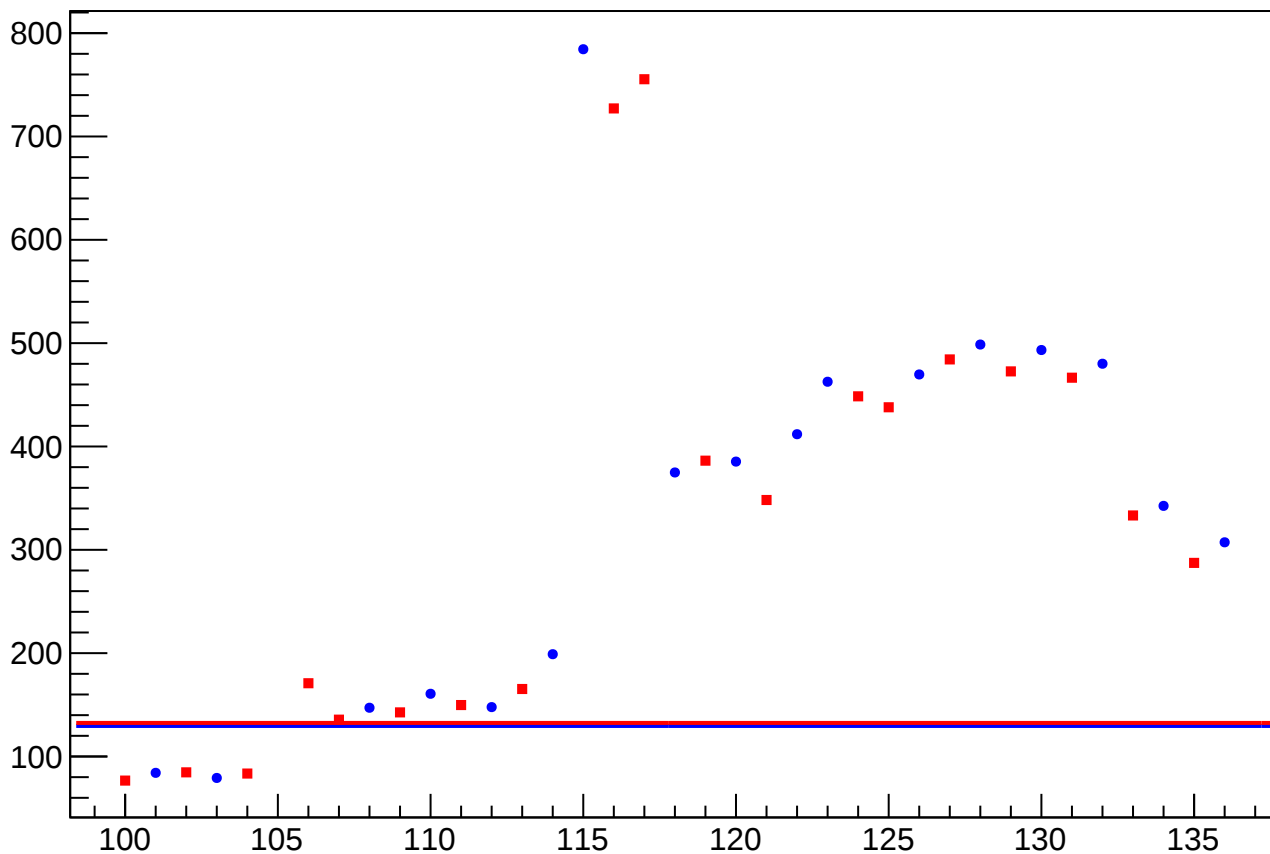
Right Out: -106.164+/-61.059  $\chi^2/\text{NDF}$ : 21.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

104.001+/-63.156  $\chi^2/\text{NDF}$ : 21.3/16

-106.164+/-61.059  $\chi^2/\text{NDF}$ : 21.9/18

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 129.552+/-0.045  $\chi^2/\text{NDF}$ : 4772450.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

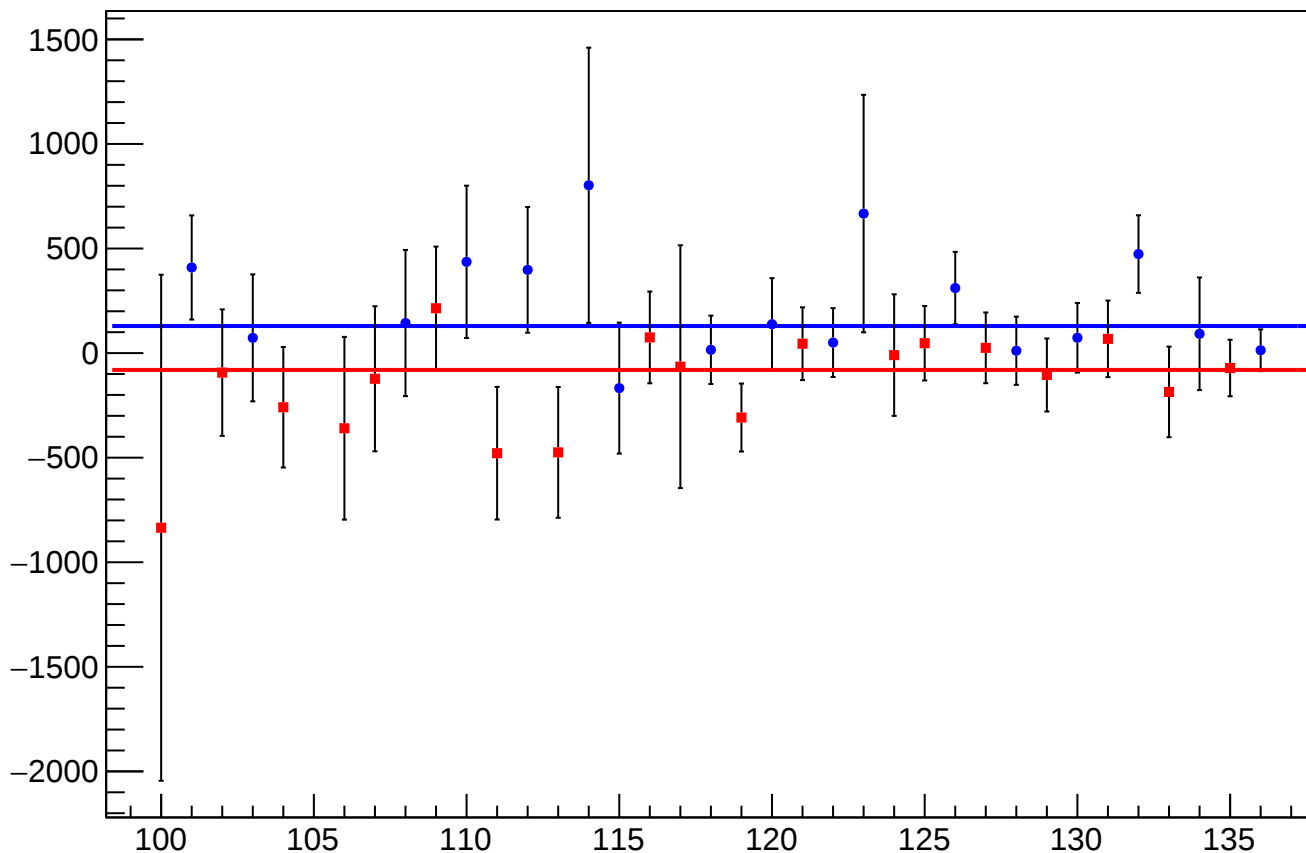
Right Out: 132.486+/-0.043  $\chi^2/\text{NDF}$ : 4296711.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

129.552+/-0.045  $\chi^2/\text{NDF}$ : 4772450.4/16

132.486+/-0.043  $\chi^2/\text{NDF}$ : 4296711.8/18

# reg\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 129.398+/-49.122  $\chi^2/\text{NDF}$ : 12.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

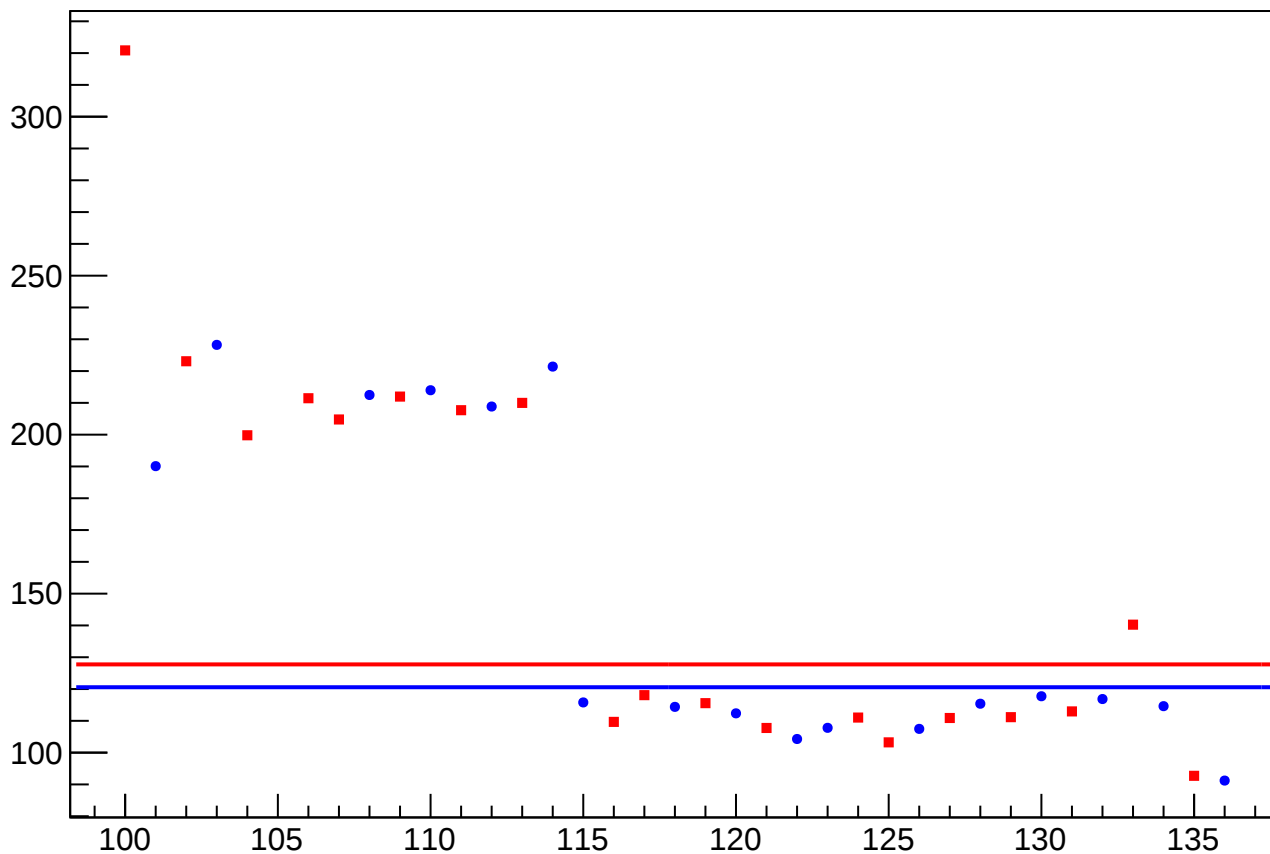
Right Out: -80.413+/-51.254  $\chi^2/\text{NDF}$ : 10.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

129.398+/-49.122  $\chi^2/\text{NDF}$ : 12.9/16

-80.413+/-51.254  $\chi^2/\text{NDF}$ : 10.2/18

# reg\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 120.565 $\pm$ 0.035  $\chi^2$ /NDF: 1112076.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

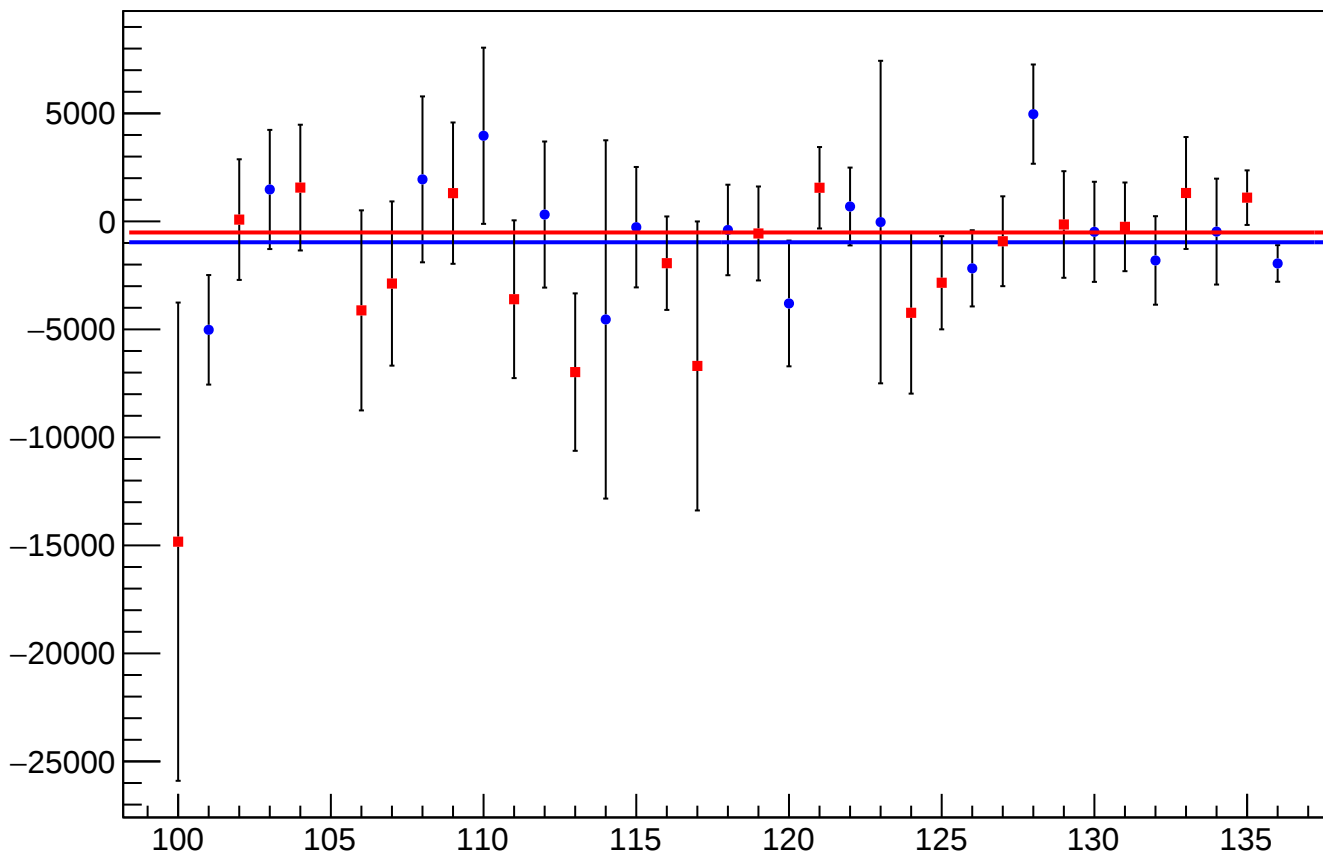
Right Out: 127.747 $\pm$ 0.036  $\chi^2$ /NDF: 1263998.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

120.565 $\pm$ 0.035  $\chi^2$ /NDF: 1112076.4/16

127.747 $\pm$ 0.036  $\chi^2$ /NDF: 1263998.3/18

# asym\_sam\_26\_avg\_correction\_mean vs Slug



Right In: -966.587+/-512.340  $\chi^2/\text{NDF}$ : 16.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

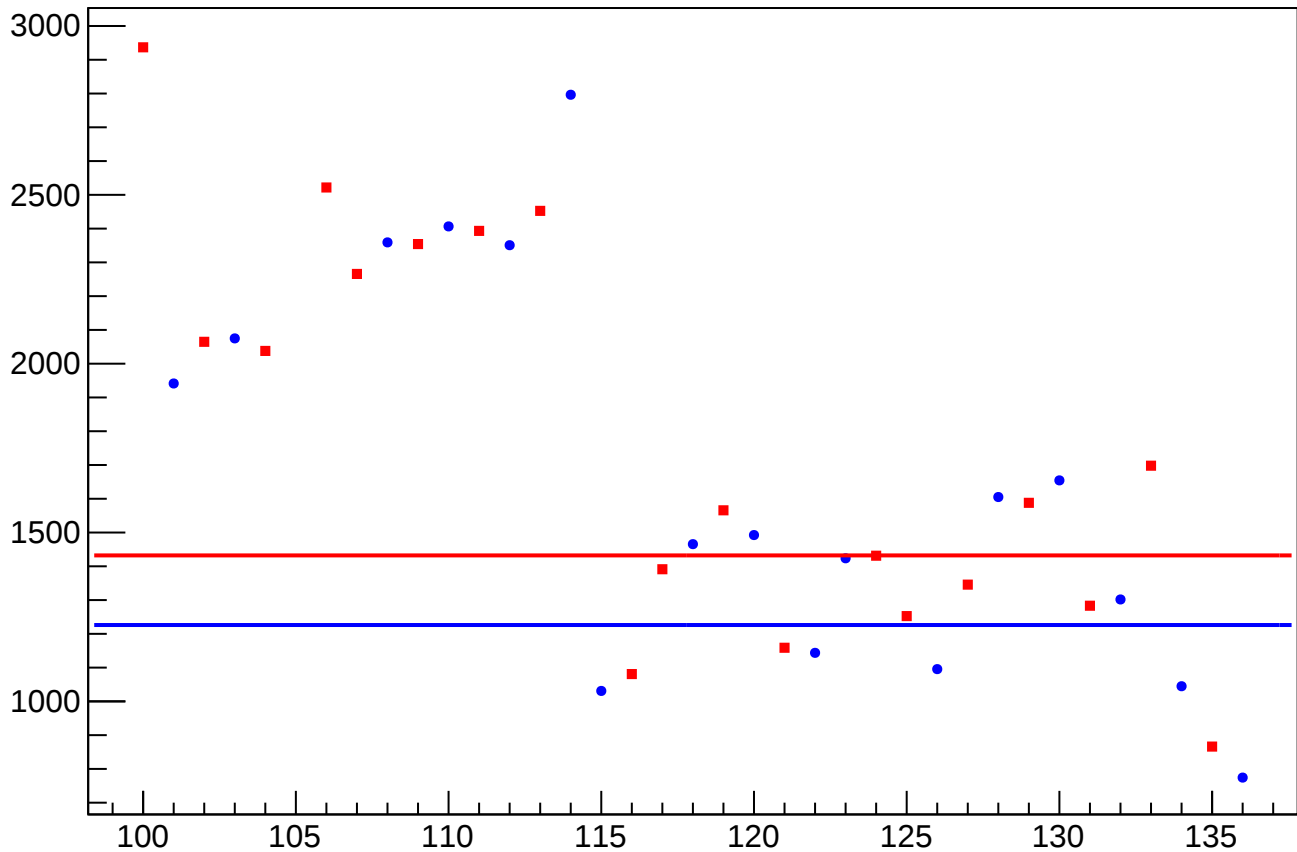
Right Out: -513.135+/-573.783  $\chi^2/\text{NDF}$ : 14.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-966.587+/-512.340  $\chi^2/\text{NDF}$ : 16.4/16

-513.135+/-573.783  $\chi^2/\text{NDF}$ : 14.2/18

# asym\_sam\_26\_avg\_correction\_rms vs Slug



Right In: 1226.135+/-0.362  $\chi^2/\text{NDF}$ : 1756323.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

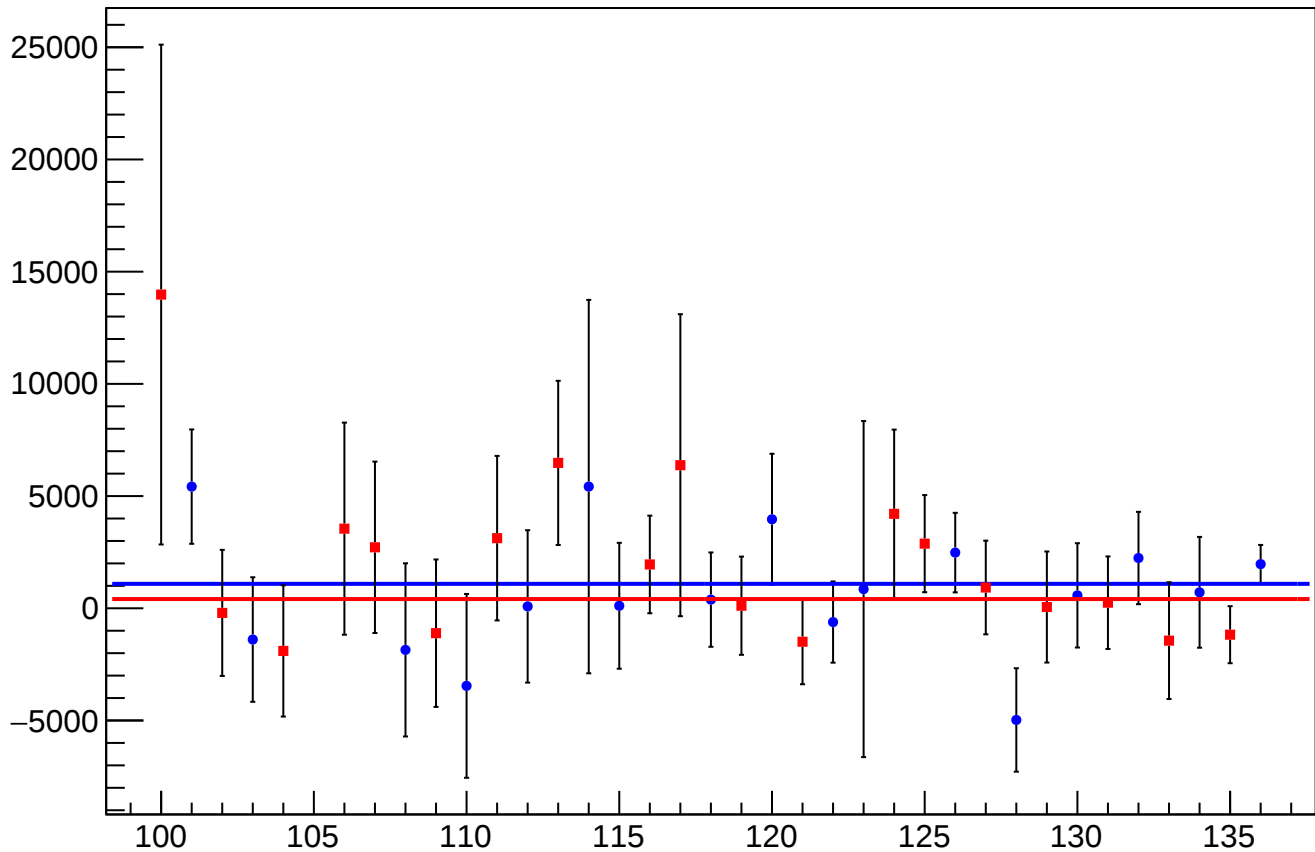
Right Out: 1432.262+/-0.406  $\chi^2/\text{NDF}$ : 1448051.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1226.135+/-0.362  $\chi^2/\text{NDF}$ : 1756323.1/16

1432.262+/-0.406  $\chi^2/\text{NDF}$ : 1448051.4/18

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 1089.066 $\pm$ 515.272  $\chi^2$ /NDF: 16.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

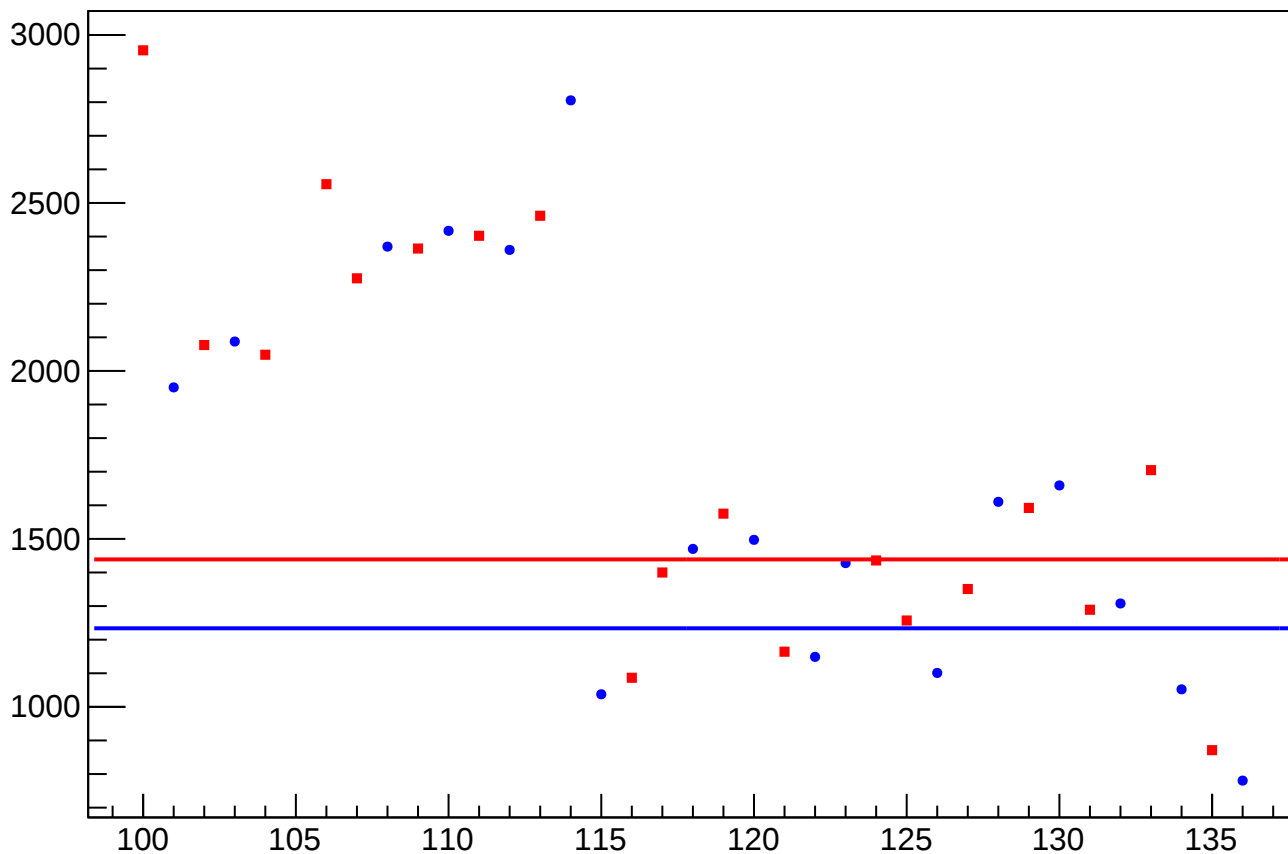
Right Out: 411.333 $\pm$ 576.622  $\chi^2$ /NDF: 13.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1089.066 $\pm$ 515.272  $\chi^2$ /NDF: 16.9/16

411.333 $\pm$ 576.622  $\chi^2$ /NDF: 13.3/18

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 1233.863+/-0.364     $\chi^2/\text{NDF}$ : 1744048.5/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

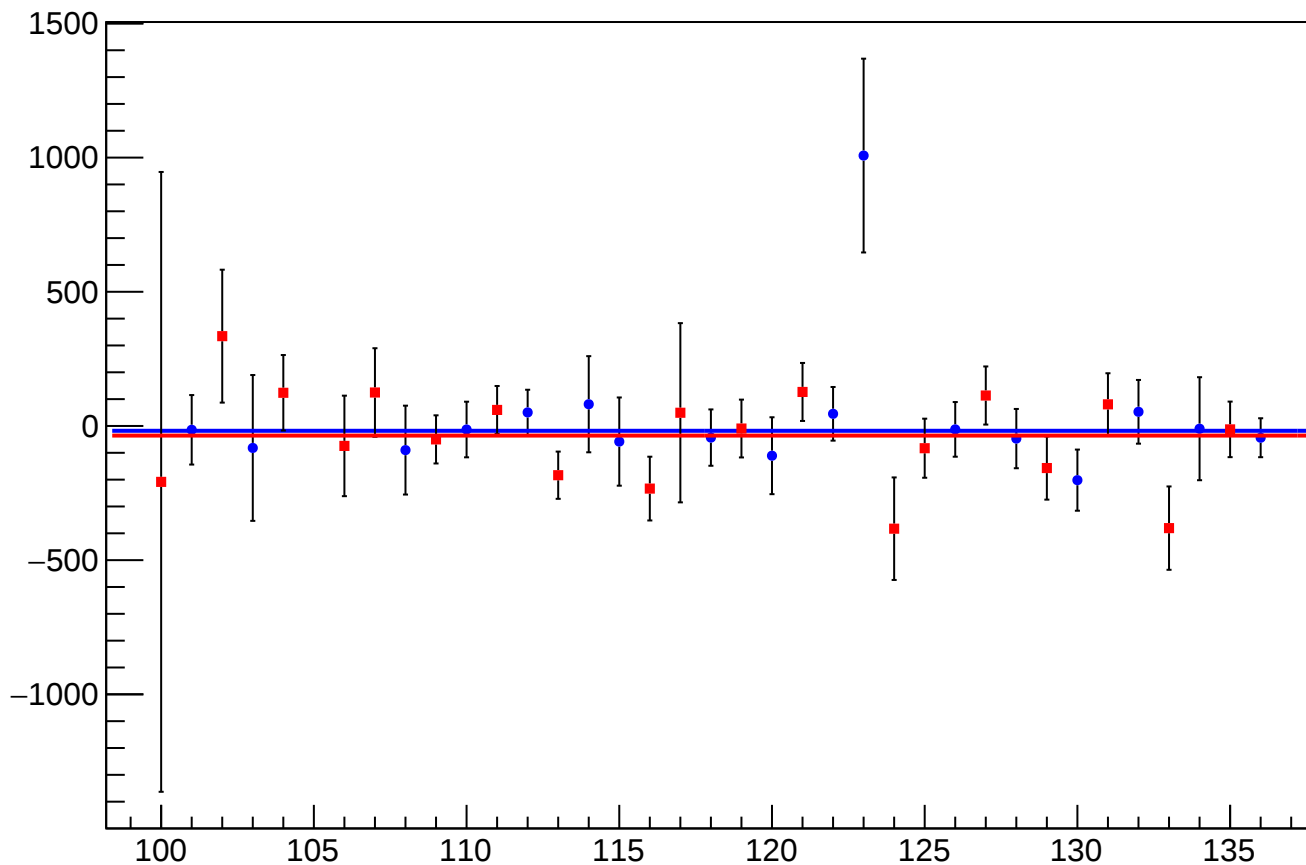
Right Out: 1438.966+/-0.408     $\chi^2/\text{NDF}$ : 1446559.4/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

1233.863+/-0.364     $\chi^2/\text{NDF}$ : 1744048.5/16

1438.966+/-0.408     $\chi^2/\text{NDF}$ : 1446559.4/18

# reg\_asym\_sam\_37\_avg\_mean vs Slug



Right In: -17.972 $\pm$ 28.848  $\chi^2$ /NDF: 13.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

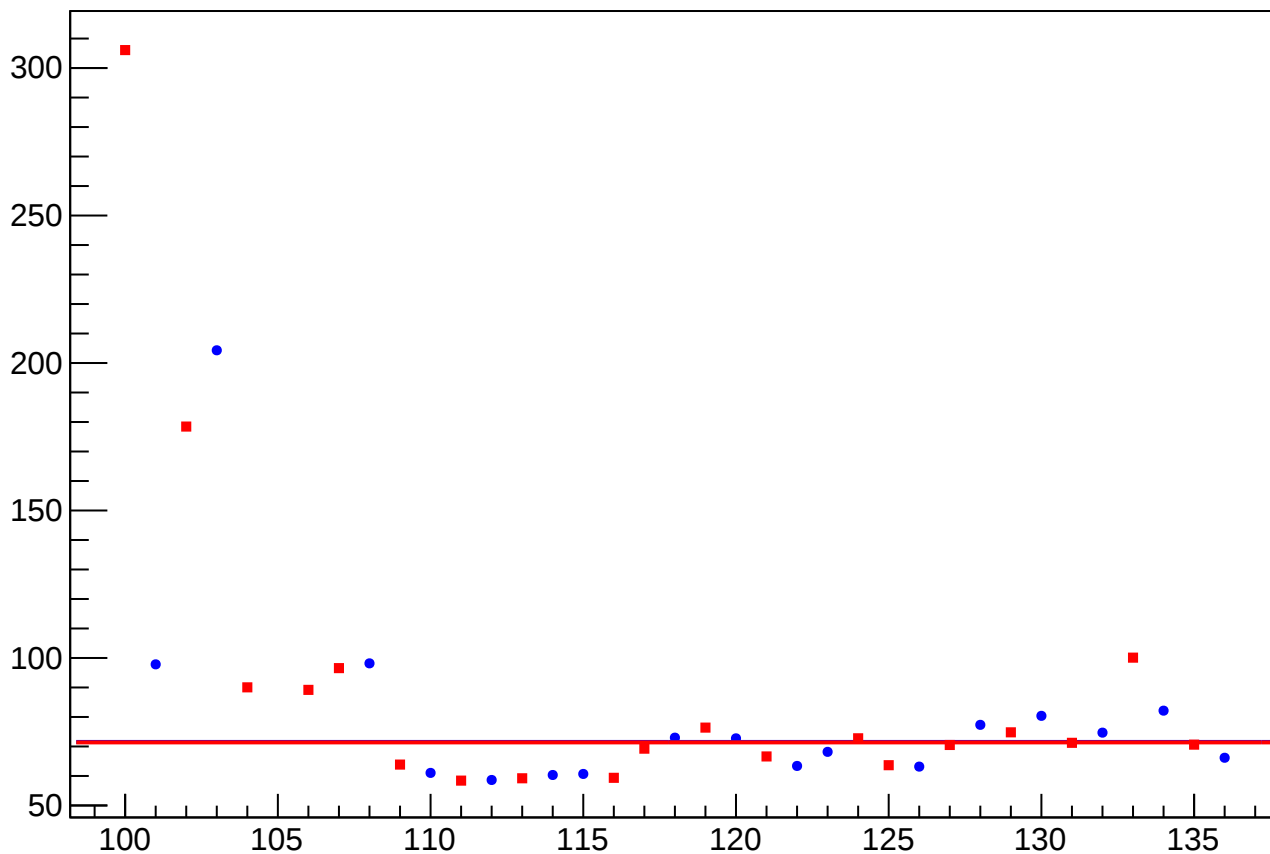
Right Out: -35.796 $\pm$ 28.397  $\chi^2$ /NDF: 26.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-17.972 $\pm$ 28.848  $\chi^2$ /NDF: 13.4/16

-35.796 $\pm$ 28.397  $\chi^2$ /NDF: 26.1/18

# reg\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 71.536+/-0.020  $\chi^2$ /NDF: 758961.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

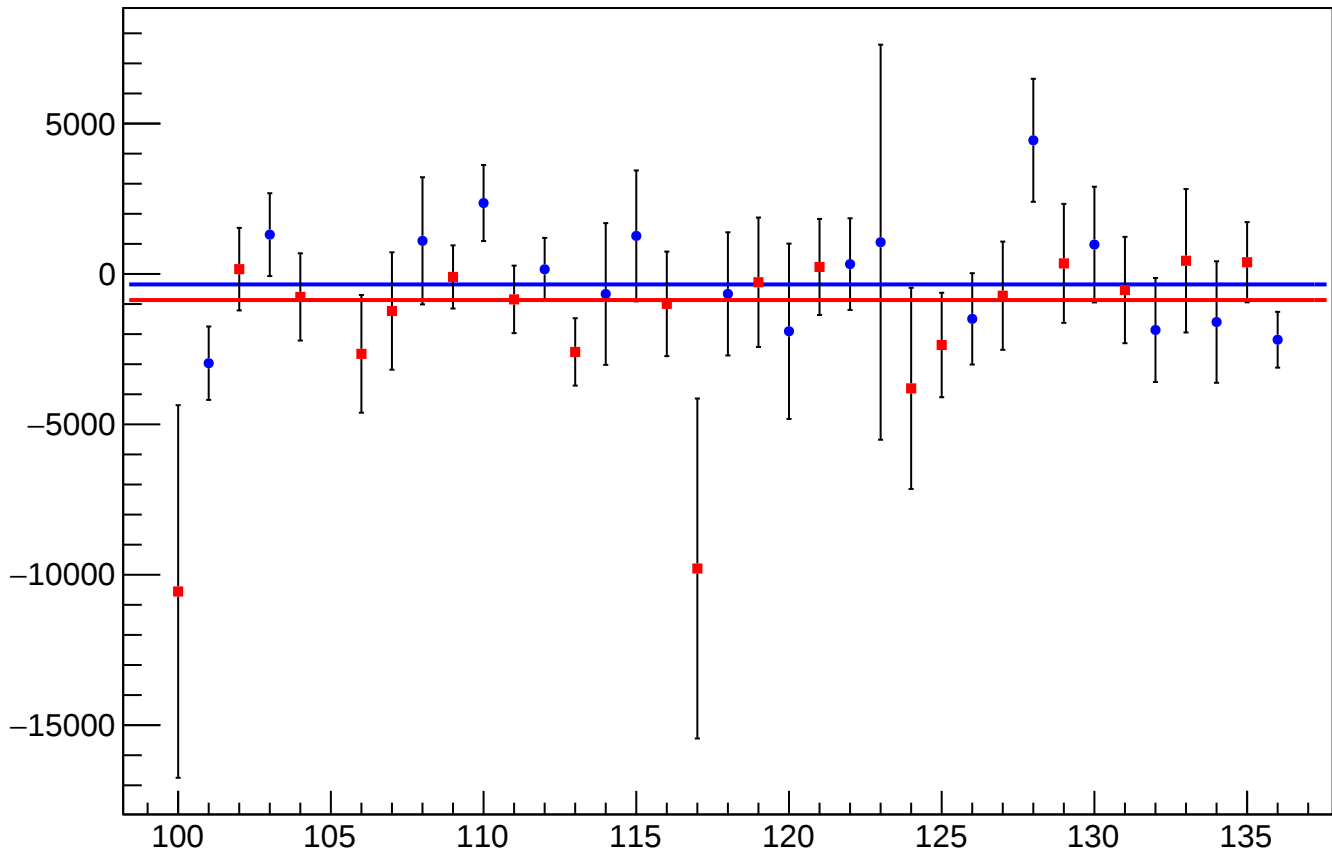
Right Out: 71.381+/-0.020  $\chi^2$ /NDF: 759888.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

71.536+/-0.020  $\chi^2$ /NDF: 758961.6/16

71.381+/-0.020  $\chi^2$ /NDF: 759888.7/18

# asym\_sam\_37\_avg\_correction\_mean vs Slug



Right In: -347.939+/-381.994  $\chi^2/\text{NDF}$ : 24.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

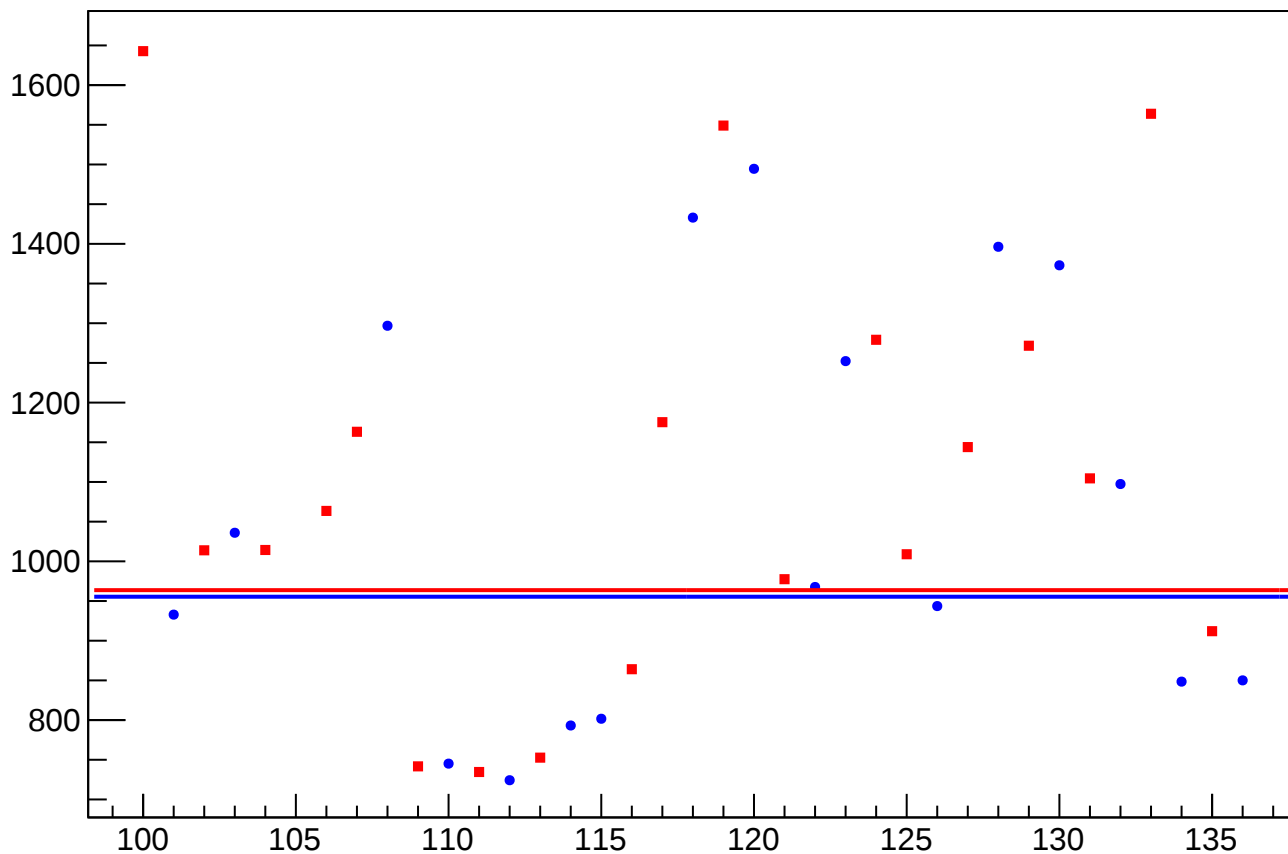
Right Out: -867.352+/-376.074  $\chi^2/\text{NDF}$ : 13.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-347.939+/-381.994  $\chi^2/\text{NDF}$ : 24.1/16

-867.352+/-376.074  $\chi^2/\text{NDF}$ : 13.0/18

# asym\_sam\_37\_avg\_correction\_rms vs Slug



Right In: 955.425+/-0.270  $\chi^2/\text{NDF}$ : 646512.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

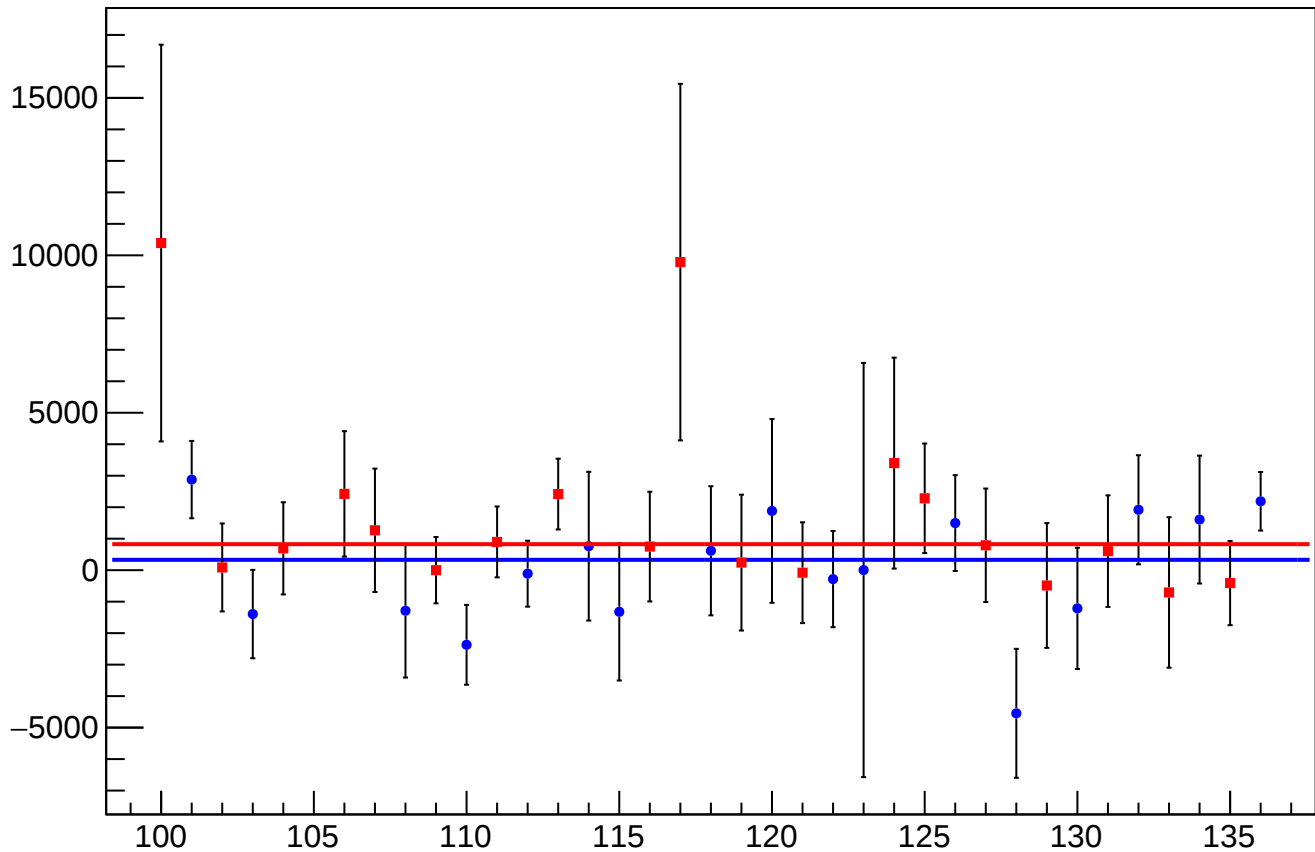
Right Out: 963.700+/-0.266  $\chi^2/\text{NDF}$ : 686808.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

955.425+/-0.270  $\chi^2/\text{NDF}$ : 646512.4/16

963.700+/-0.266  $\chi^2/\text{NDF}$ : 686808.9/18

# asym\_sam\_37\_avg\_mean vs Slug



Right In: 329.164+/-383.728  $\chi^2/\text{NDF}$ : 24.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

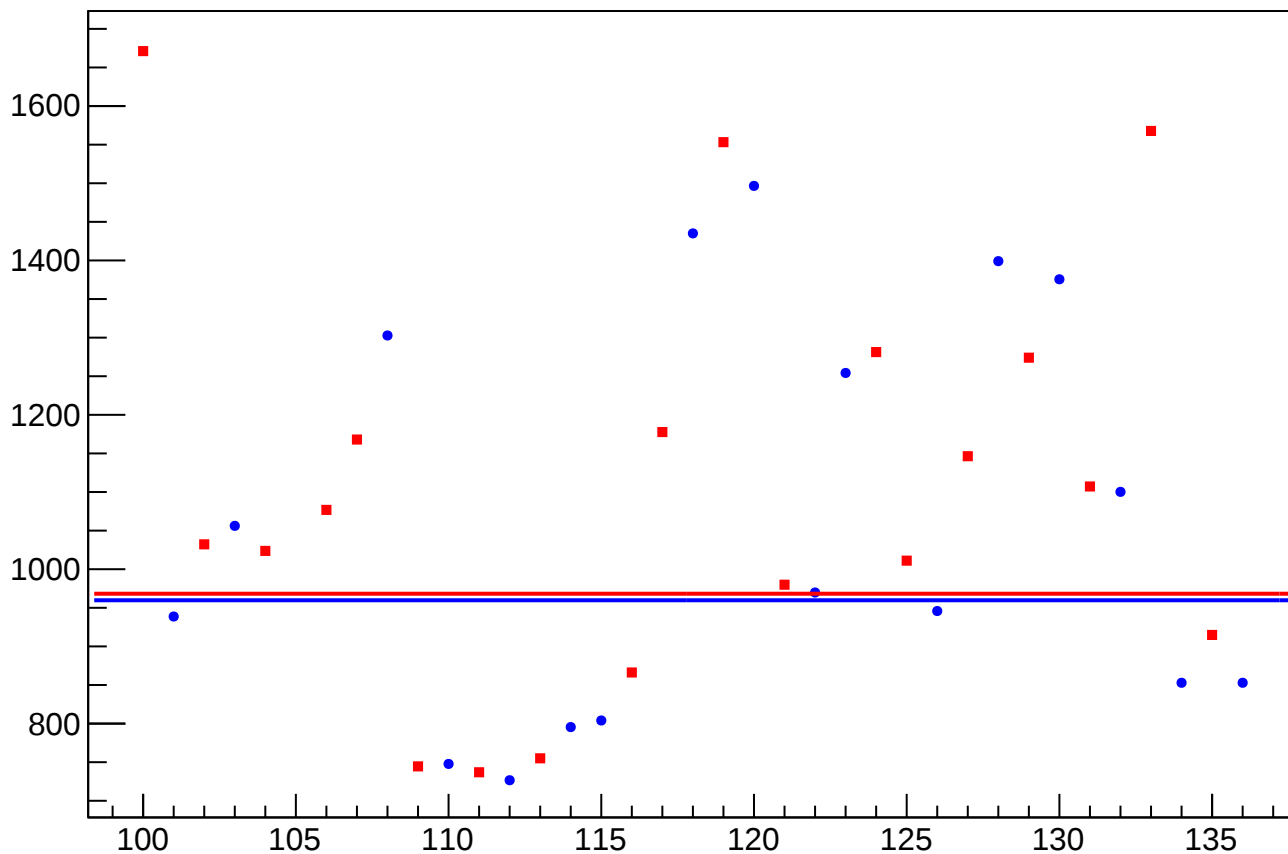
Right Out: 826.122+/-377.996  $\chi^2/\text{NDF}$ : 11.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

329.164+/-383.728  $\chi^2/\text{NDF}$ : 24.3/16

826.122+/-377.996  $\chi^2/\text{NDF}$ : 11.8/18

asym\_sam\_37\_avg\_rms vs Slug



Right In: 959.770+/-0.271  $\chi^2/\text{NDF}$ : 646727.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

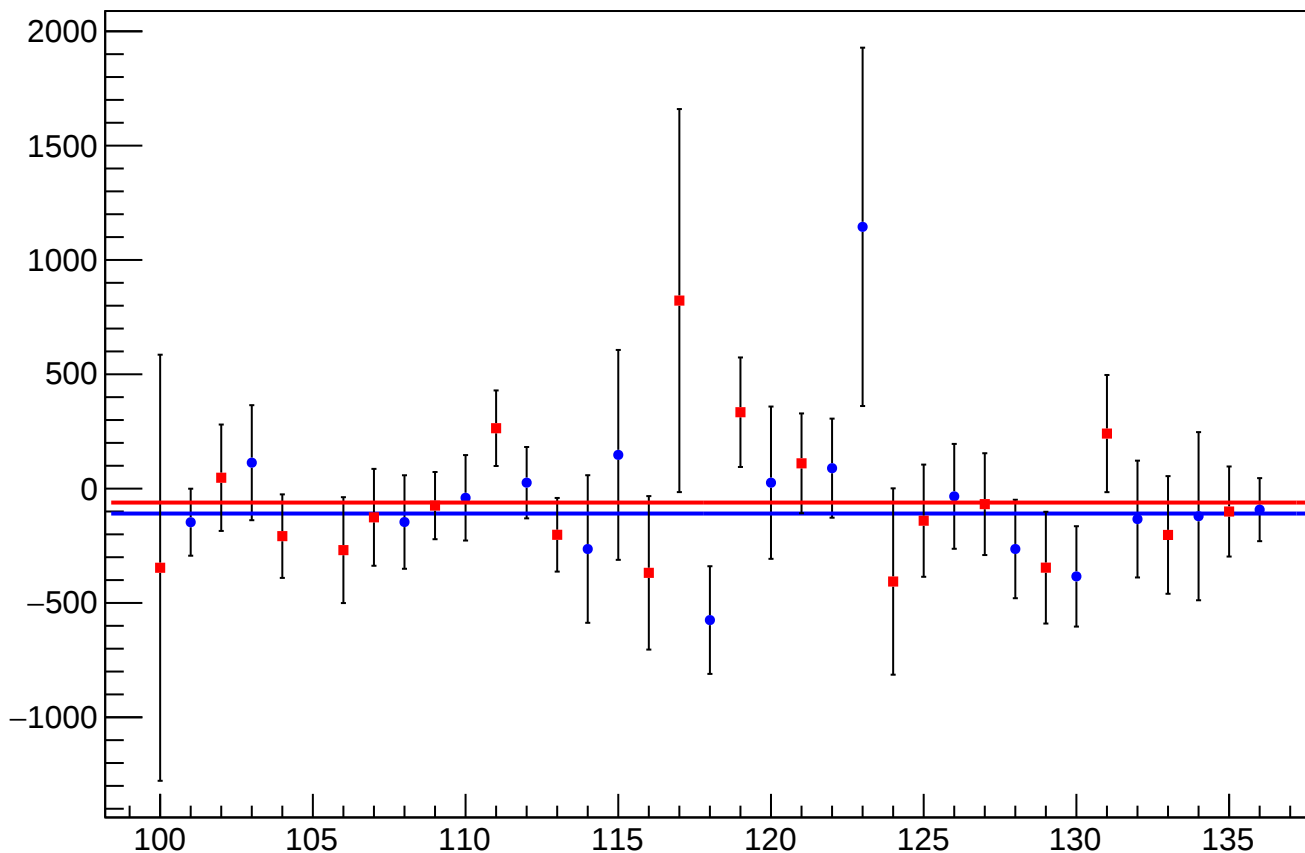
Right Out: 968.260+/-0.267  $\chi^2/\text{NDF}$ : 689178.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

959.770+/-0.271  $\chi^2/\text{NDF}$ : 646727.9/16

968.260+/-0.267  $\chi^2/\text{NDF}$ : 689178.3/18

# reg\_asym\_sam\_48\_avg\_mean vs Slug



Right In:  $-108.977 \pm 52.923$   $\chi^2/\text{NDF}$ : 12.0/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

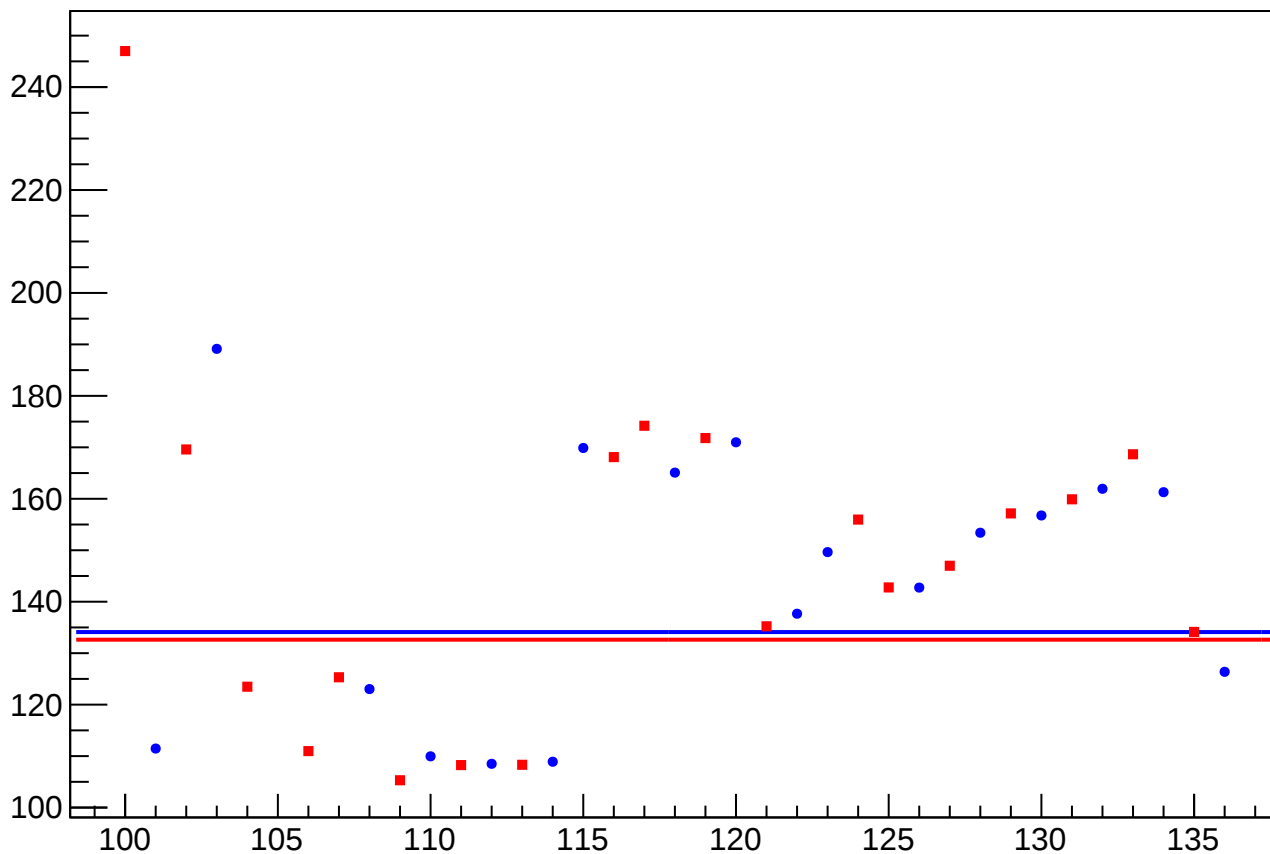
Right Out:  $-61.001 \pm 51.542$   $\chi^2/\text{NDF}$ : 15.7/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-108.977 \pm 52.923$   $\chi^2/\text{NDF}$ : 12.0/16

$-61.001 \pm 51.542$   $\chi^2/\text{NDF}$ : 15.7/18

# reg\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 134.103+/-0.037  $\chi^2/\text{NDF}$ : 402581.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

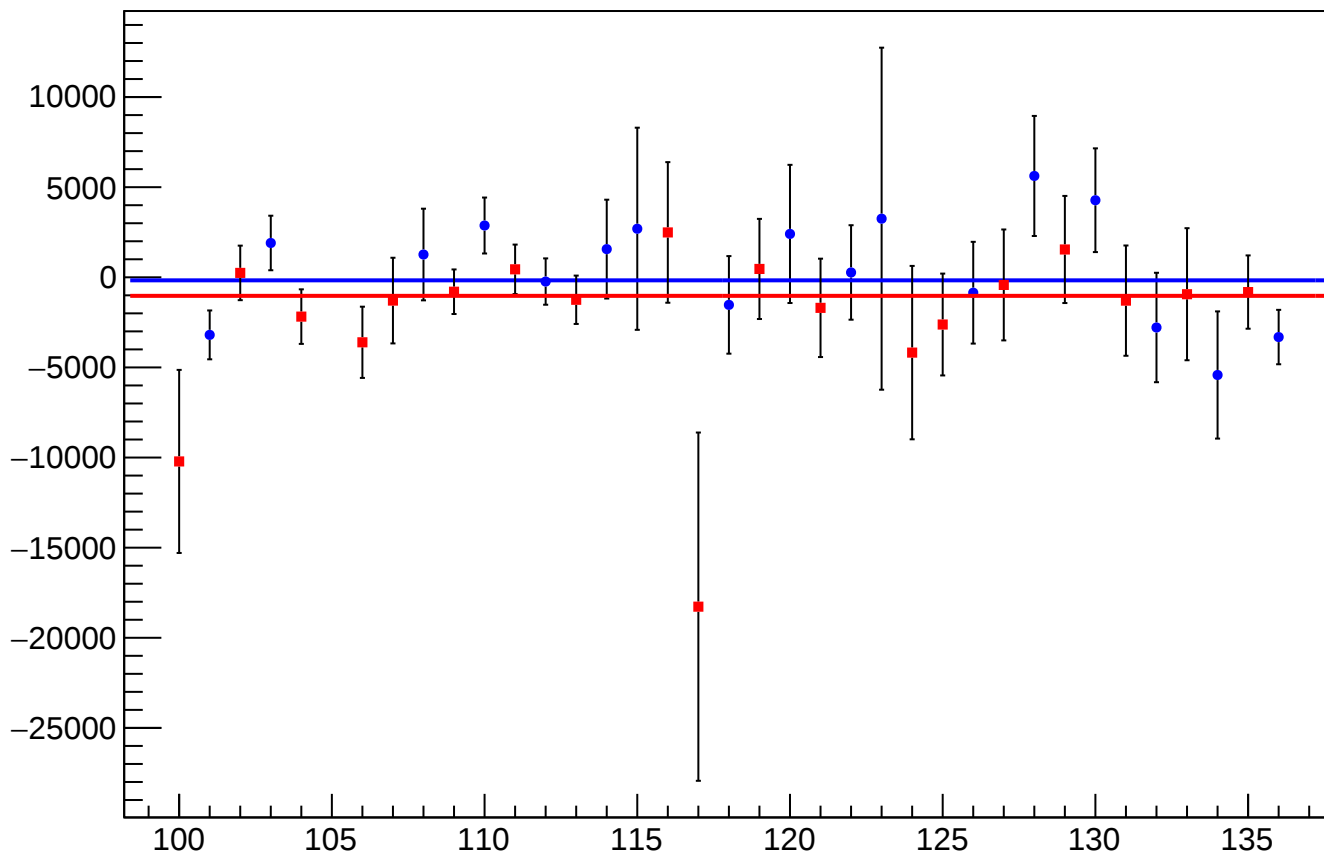
Right Out: 132.623+/-0.036  $\chi^2/\text{NDF}$ : 445240.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

134.103+/-0.037  $\chi^2/\text{NDF}$ : 402581.2/16

132.623+/-0.036  $\chi^2/\text{NDF}$ : 445240.2/18

# asym\_sam\_48\_avg\_correction\_mean vs Slug



Right In: -168.237+/-523.672  $\chi^2$ /NDF: 25.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

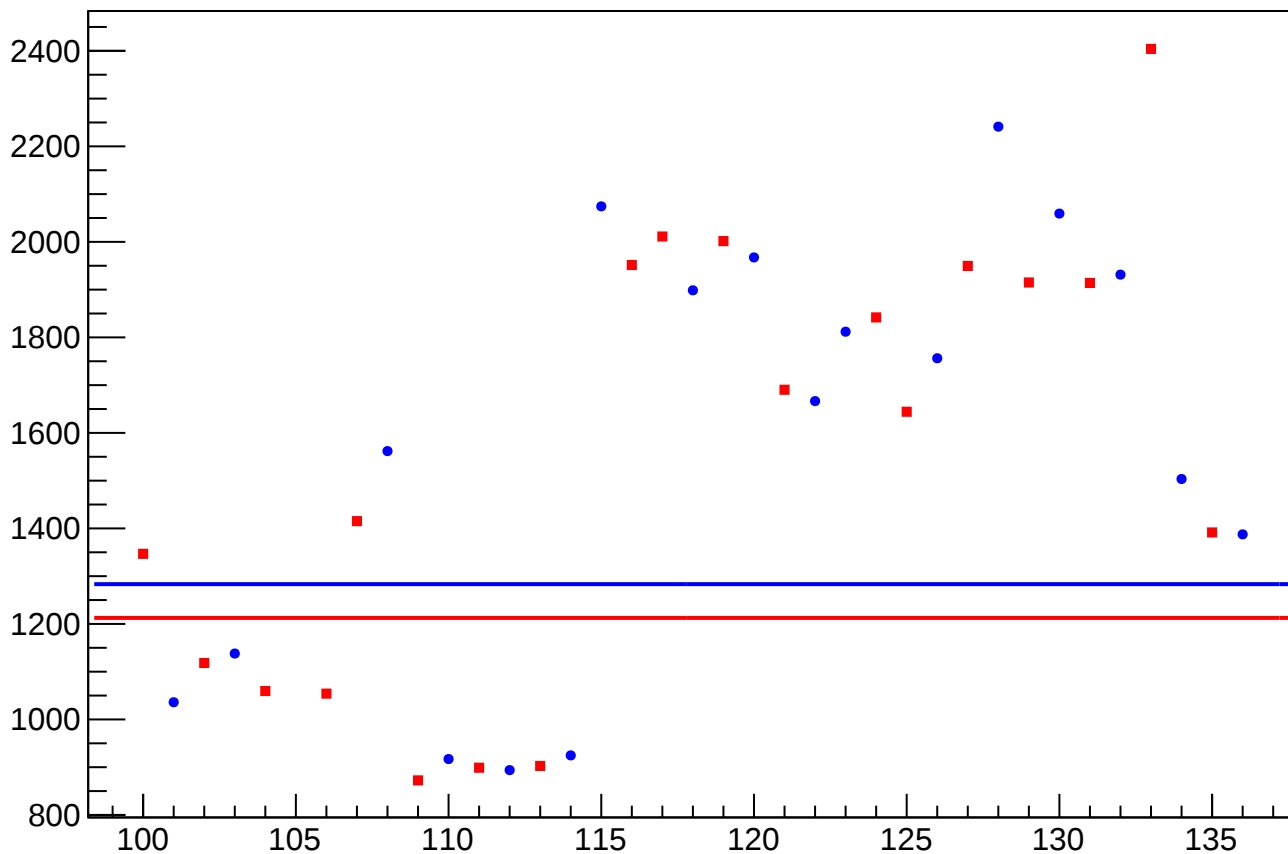
Right Out: -1028.587+/-485.774  $\chi^2$ /NDF: 13.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-168.237+/-523.672  $\chi^2$ /NDF: 25.3/16

-1028.587+/-485.774  $\chi^2$ /NDF: 13.4/18

# asym\_sam\_48\_avg\_correction\_rms vs Slug



Right In: 1283.318 $\pm$ 0.370  $\chi^2$ /NDF: 1169431.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

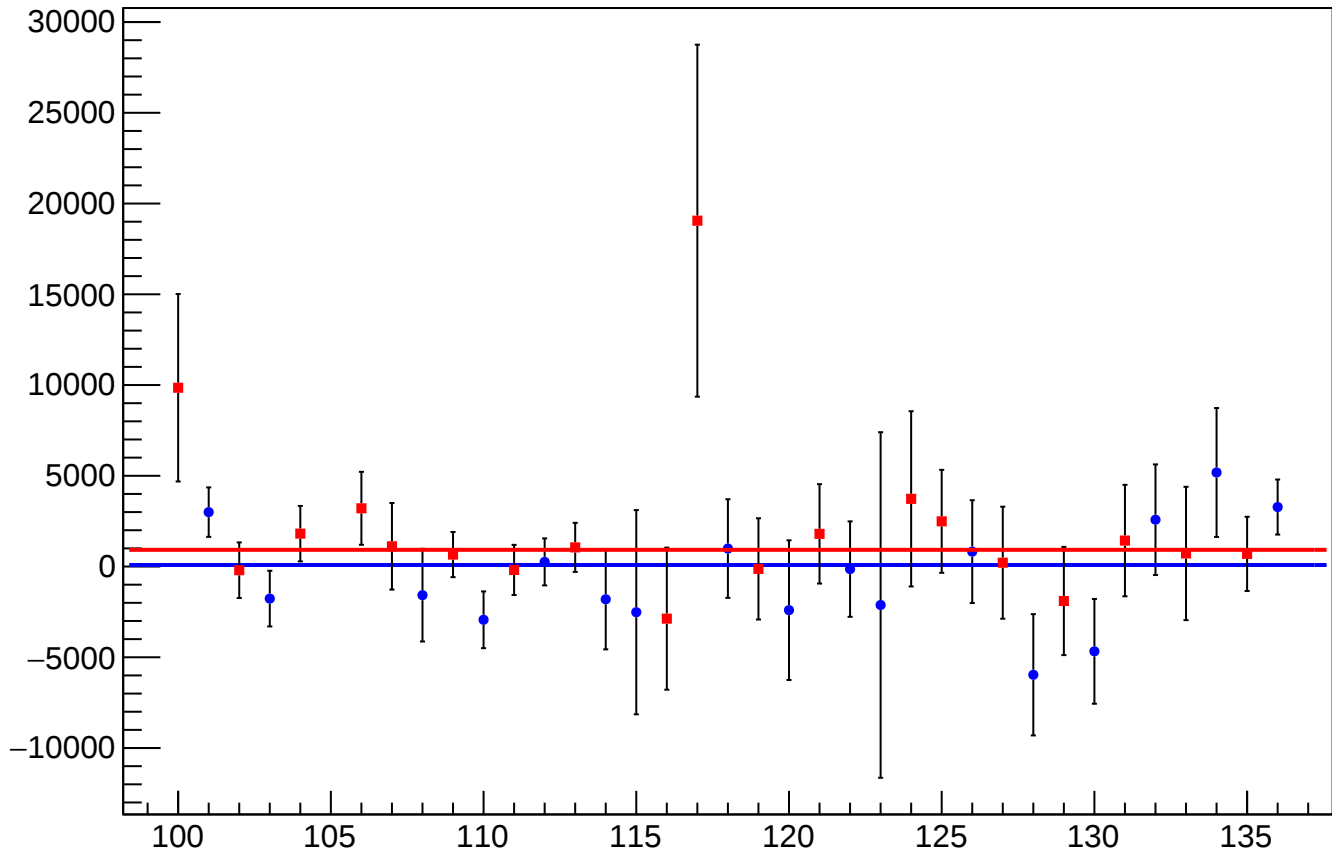
1283.318 $\pm$ 0.370  $\chi^2$ /NDF: 1169431.5/16

Right Out: 1212.623 $\pm$ 0.343  $\chi^2$ /NDF: 1367560.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1212.623 $\pm$ 0.343  $\chi^2$ /NDF: 1367560.5/18

# asym\_sam\_48\_avg\_mean vs Slug



Right In: 85.077+/-527.082  $\chi^2$ /NDF: 24.7/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

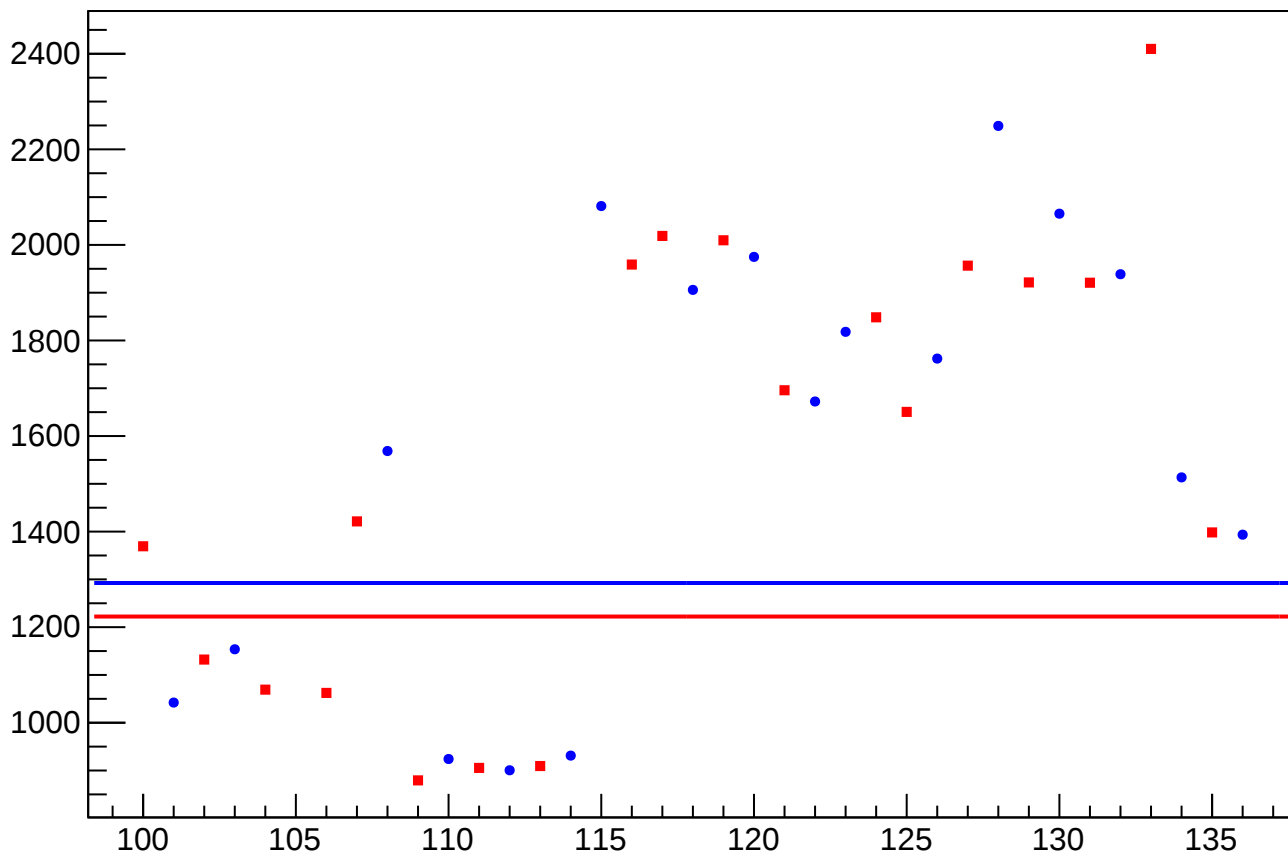
Right Out: 920.724+/-489.525  $\chi^2$ /NDF: 12.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

85.077+/-527.082  $\chi^2$ /NDF: 24.7/16

920.724+/-489.525  $\chi^2$ /NDF: 12.2/18

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 1292.426 $\pm$ 0.373  $\chi^2$ /NDF: 1156576.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

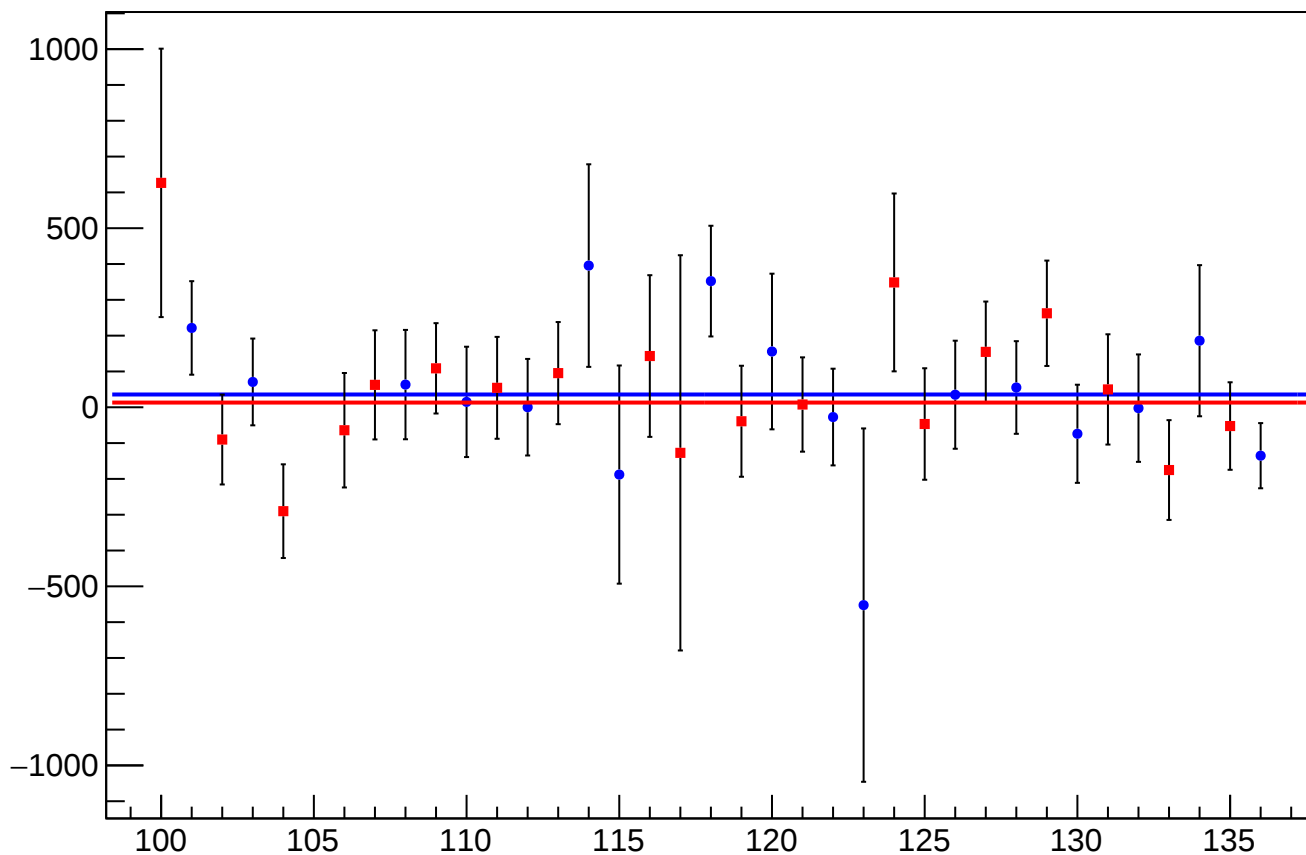
Right Out: 1222.239 $\pm$ 0.346  $\chi^2$ /NDF: 1352620.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1292.426 $\pm$ 0.373  $\chi^2$ /NDF: 1156576.0/16

1222.239 $\pm$ 0.346  $\chi^2$ /NDF: 1352620.3/18

# reg\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 35.679+/-36.350  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

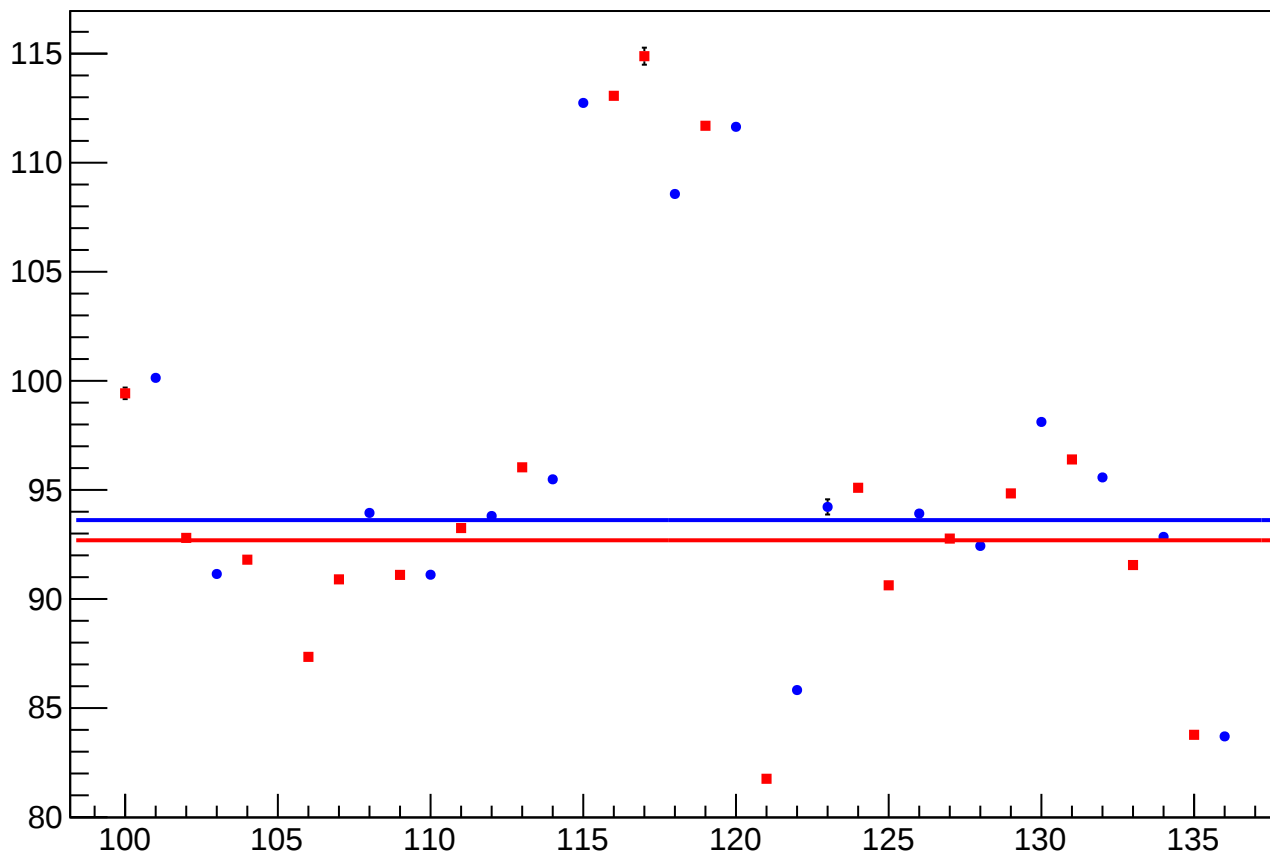
Right Out: 13.133+/-35.136  $\chi^2/\text{NDF}$ : 18.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

35.679+/-36.350  $\chi^2/\text{NDF}$ : 15.3/16

13.133+/-35.136  $\chi^2/\text{NDF}$ : 18.6/18

# reg\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 93.616+/-0.026  $\chi^2/\text{NDF}$ : 79928.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

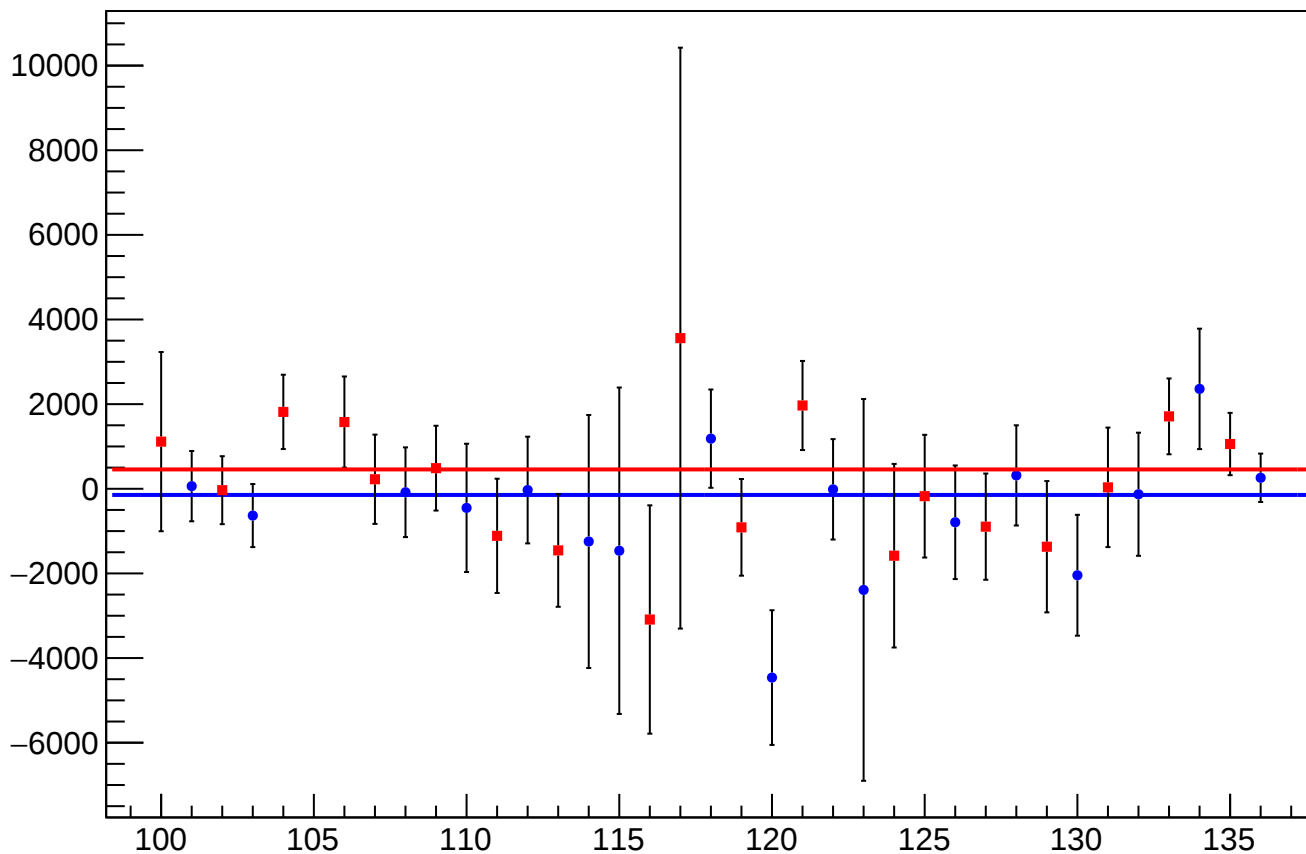
Right Out: 92.691+/-0.025  $\chi^2/\text{NDF}$ : 80993.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

93.616+/-0.026  $\chi^2/\text{NDF}$ : 79928.5/16

92.691+/-0.025  $\chi^2/\text{NDF}$ : 80993.9/18

# asym\_sam\_15\_dd\_correction\_mean vs Slug



Right In: -145.464+/-276.629  $\chi^2$ /NDF: 15.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

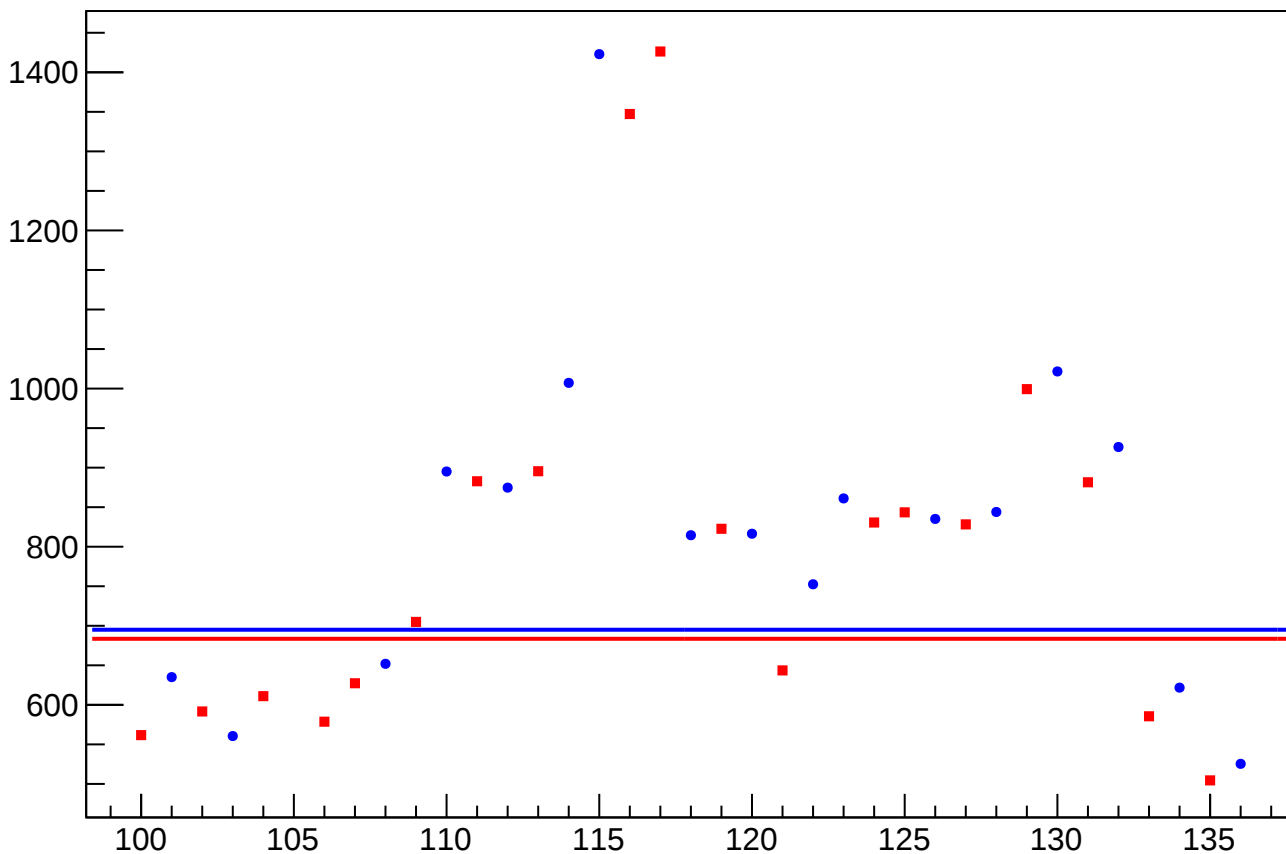
Right Out: 457.039+/-266.318  $\chi^2$ /NDF: 19.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-145.464+/-276.629  $\chi^2$ /NDF: 15.5/16

457.039+/-266.318  $\chi^2$ /NDF: 19.2/18

# asym\_sam\_15\_dd\_correction\_rms vs Slug



Right In: 695.014+/-0.196  $\chi^2/\text{NDF}$ : 677713.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

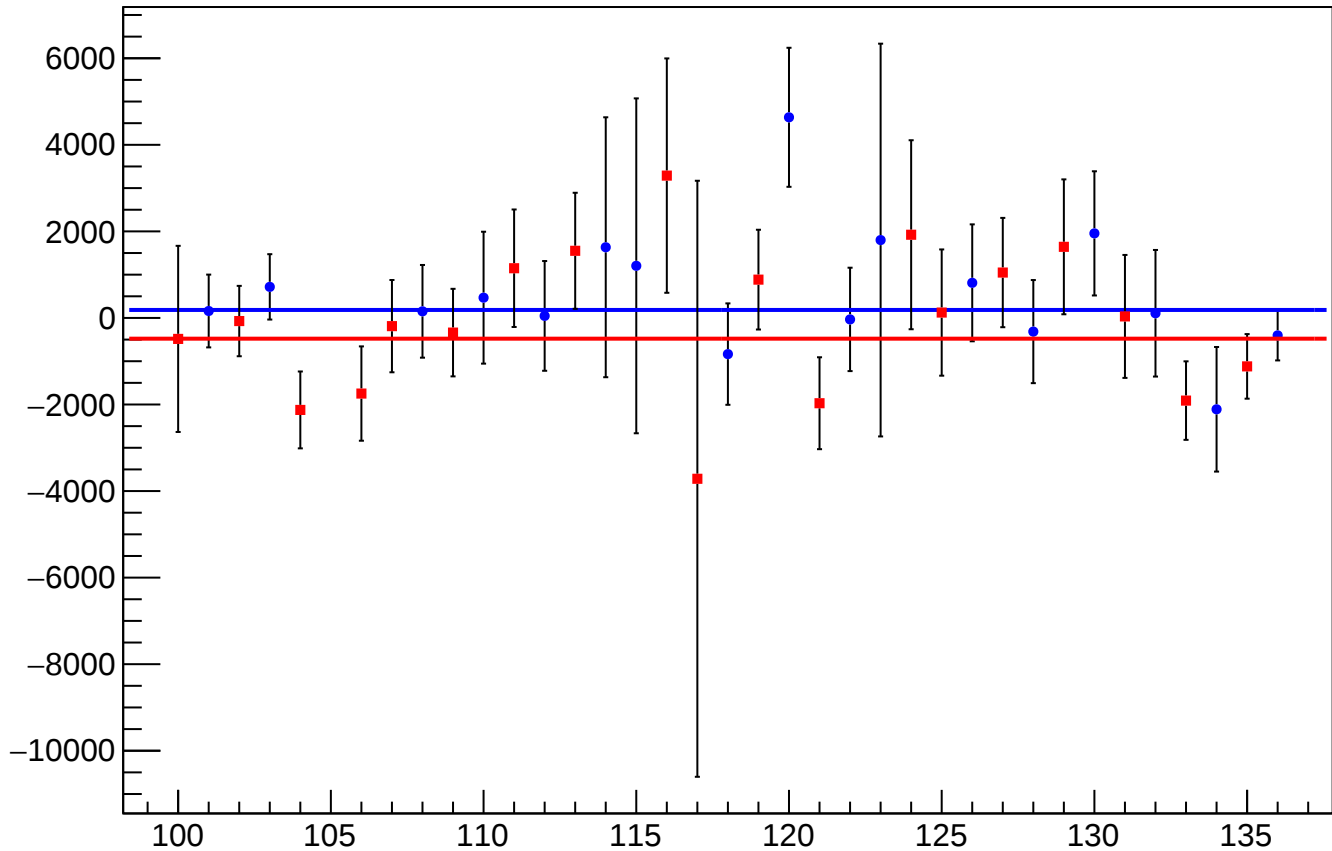
Right Out: 683.534+/-0.188  $\chi^2/\text{NDF}$ : 667768.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

695.014+/-0.196  $\chi^2/\text{NDF}$ : 677713.0/16

683.534+/-0.188  $\chi^2/\text{NDF}$ : 667768.1/18

# asym\_sam\_15\_dd\_mean vs Slug



Right In: 184.518+/-279.390  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

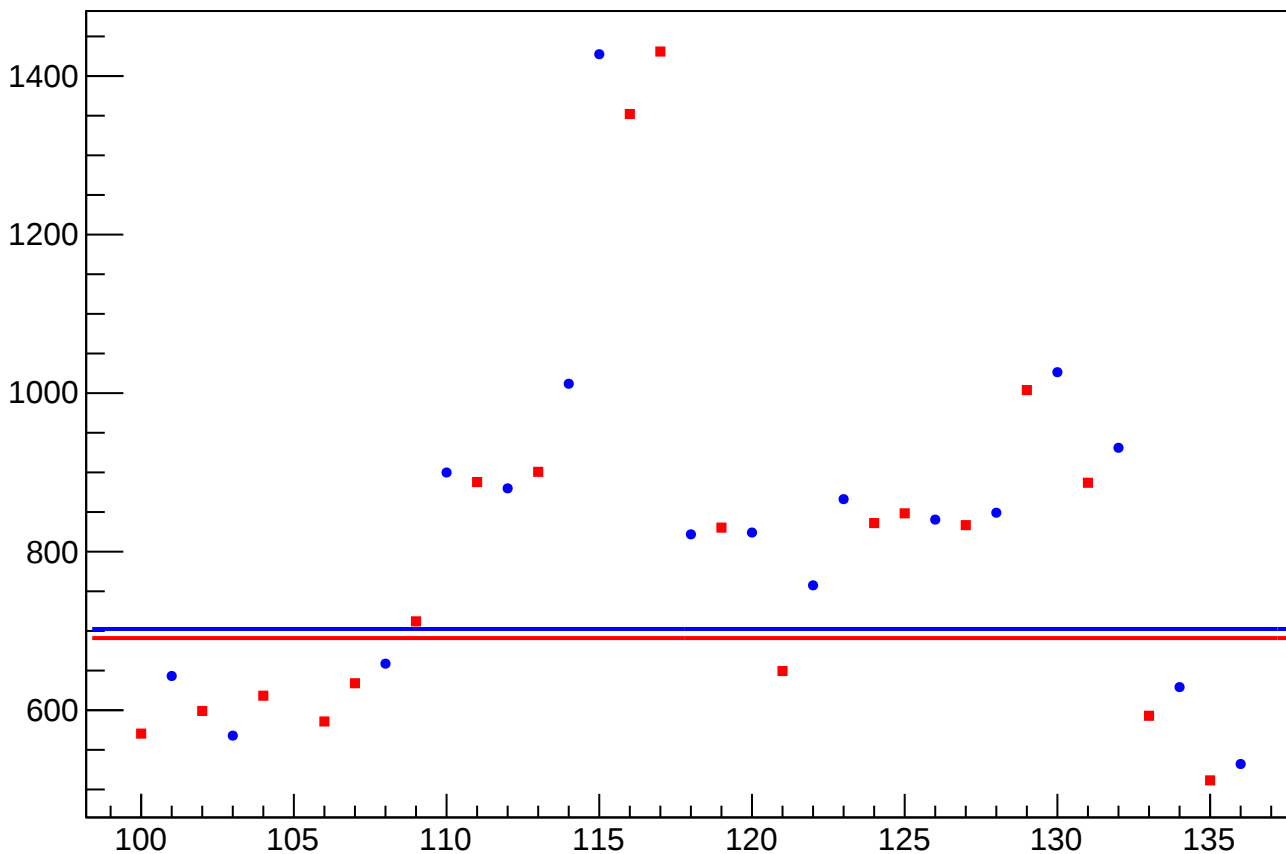
Right Out: -479.077+/-269.012  $\chi^2/\text{NDF}$ : 22.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

184.518+/-279.390  $\chi^2/\text{NDF}$ : 14.9/16

-479.077+/-269.012  $\chi^2/\text{NDF}$ : 22.5/18

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 702.469+/-0.198  $\chi^2/\text{NDF}$ : 660525.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

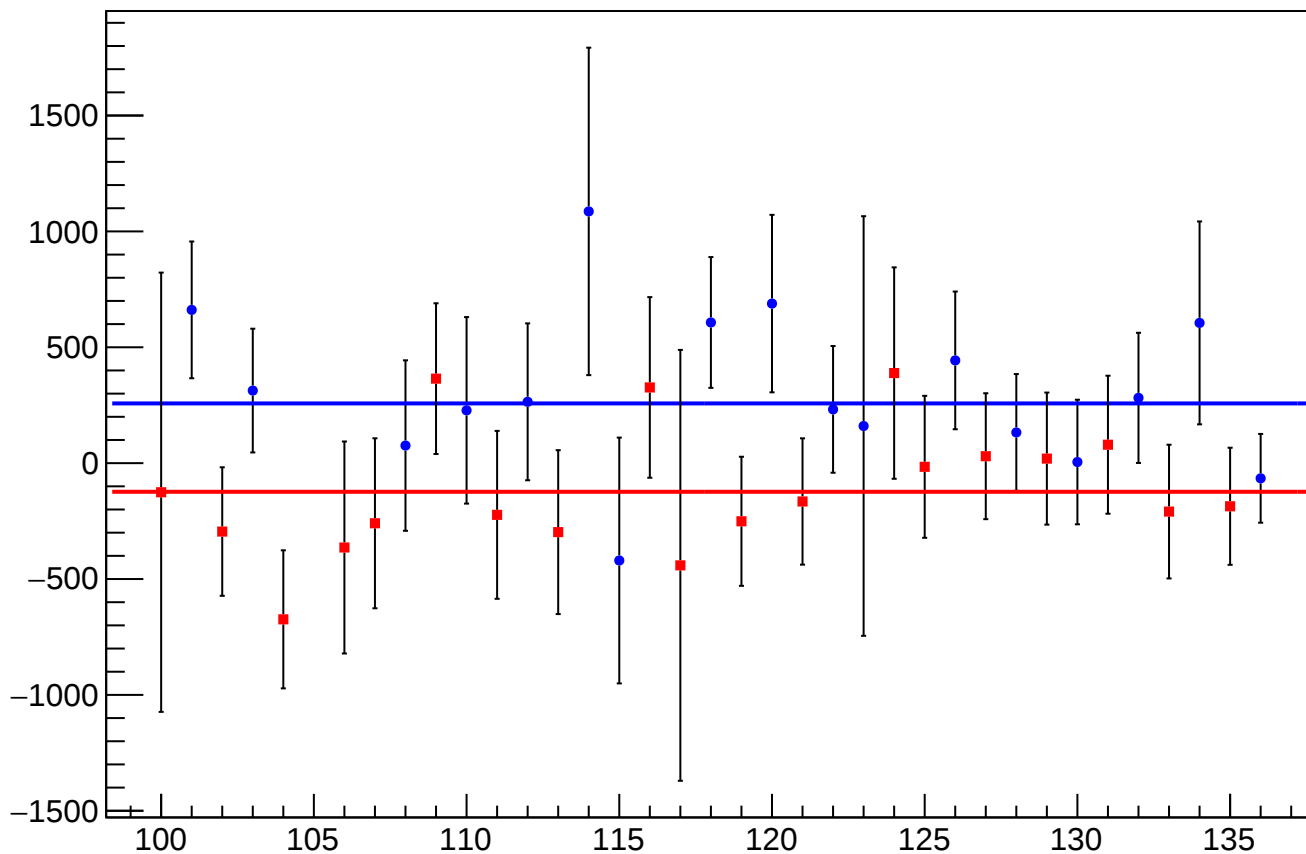
Right Out: 691.001+/-0.190  $\chi^2/\text{NDF}$ : 651447.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

702.469+/-0.198  $\chi^2/\text{NDF}$ : 660525.4/16

691.001+/-0.190  $\chi^2/\text{NDF}$ : 651447.1/18

# reg\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 257.721+/-75.931  $\chi^2$ /NDF: 13.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

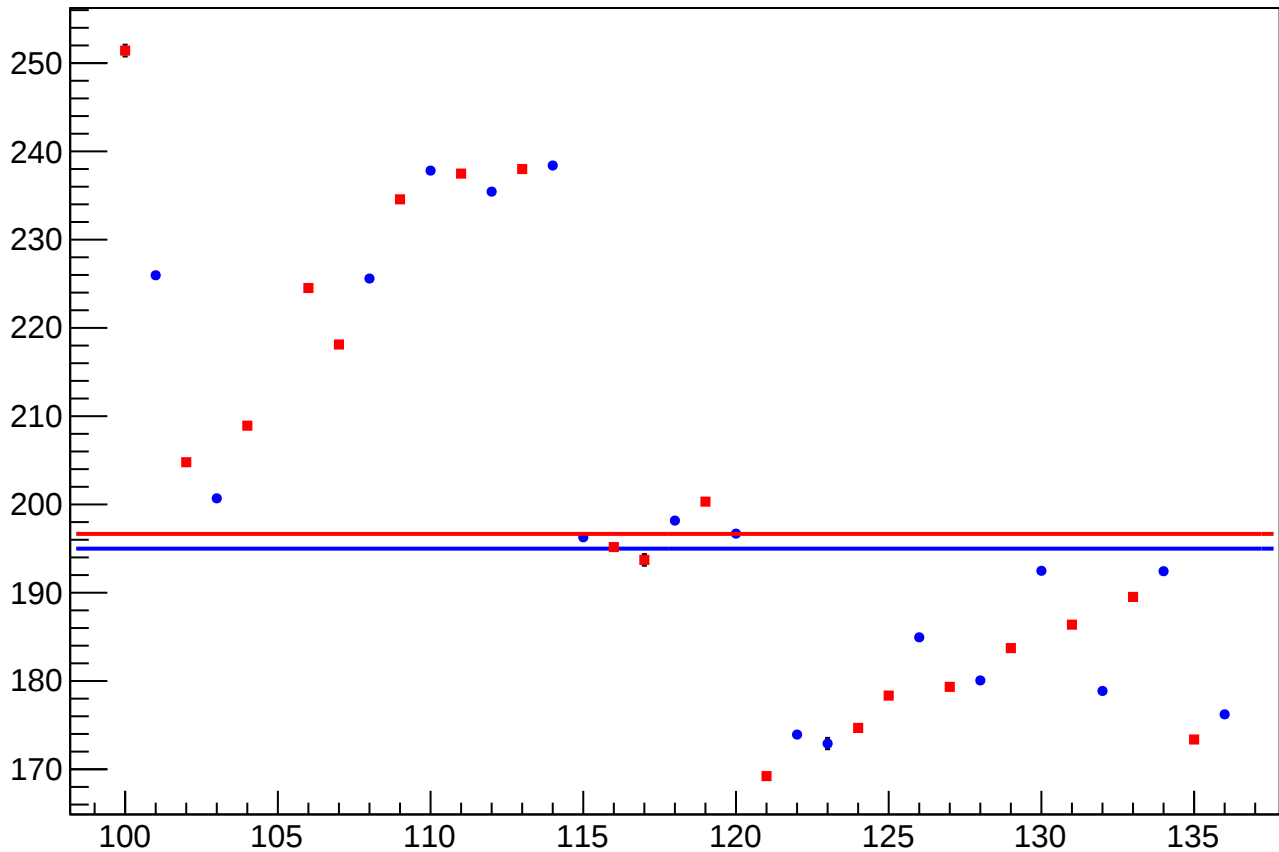
Right Out: -123.526+/-75.154  $\chi^2$ /NDF: 11.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

257.721+/-75.931  $\chi^2$ /NDF: 13.0/16

-123.526+/-75.154  $\chi^2$ /NDF: 11.0/18

# reg\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 194.994 $\pm$ 0.054  $\chi^2$ /NDF: 144271.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

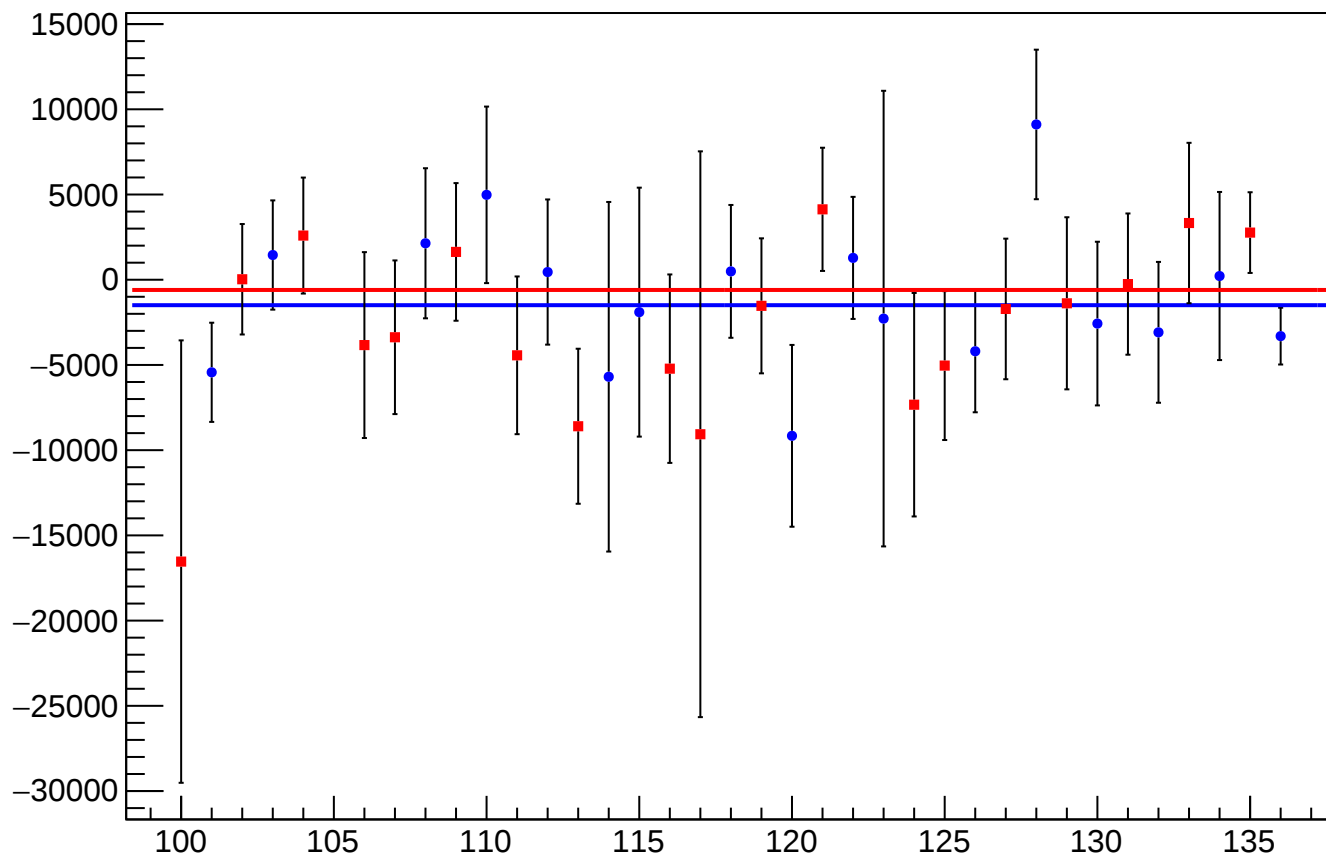
Right Out: 196.665 $\pm$ 0.053  $\chi^2$ /NDF: 171241.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

194.994 $\pm$ 0.054  $\chi^2$ /NDF: 144271.1/16

196.665 $\pm$ 0.053  $\chi^2$ /NDF: 171241.8/18

# asym\_sam\_26\_dd\_correction\_mean vs Slug



Right In: -1493.280+/-910.834  $\chi^2/\text{NDF}$ : 16.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

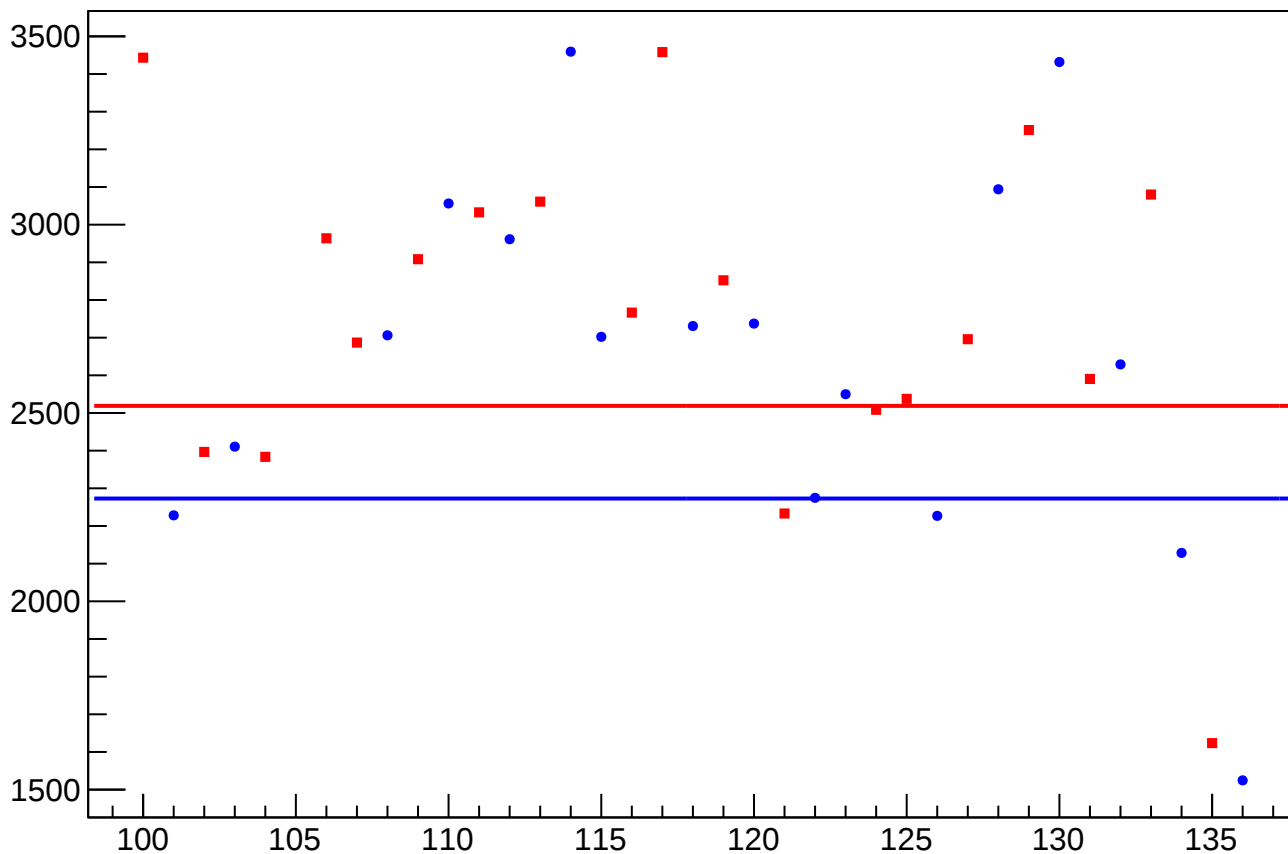
Right Out: -599.929+/-971.765  $\chi^2/\text{NDF}$ : 14.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1493.280+/-910.834  $\chi^2/\text{NDF}$ : 16.1/16

-599.929+/-971.765  $\chi^2/\text{NDF}$ : 14.9/18

# asym\_sam\_26\_dd\_correction\_rms vs Slug



Right In: 2272.883+/-0.644  $\chi^2/\text{NDF}$ : 805650.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

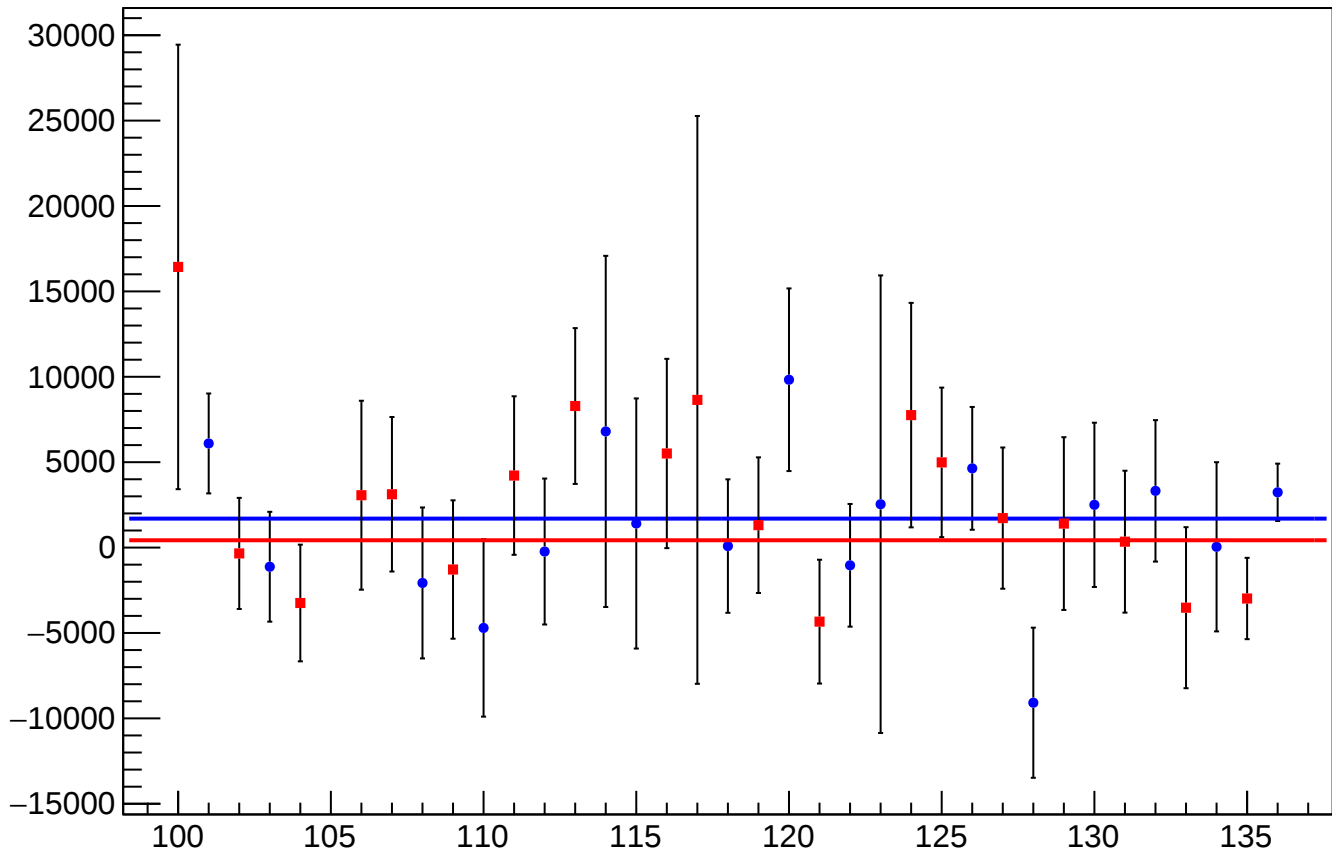
Right Out: 2518.895+/-0.687  $\chi^2/\text{NDF}$ : 501995.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2272.883+/-0.644  $\chi^2/\text{NDF}$ : 805650.3/16

2518.895+/-0.687  $\chi^2/\text{NDF}$ : 501995.7/18

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 1695.956 $\pm$ 914.855  $\chi^2$ /NDF: 16.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

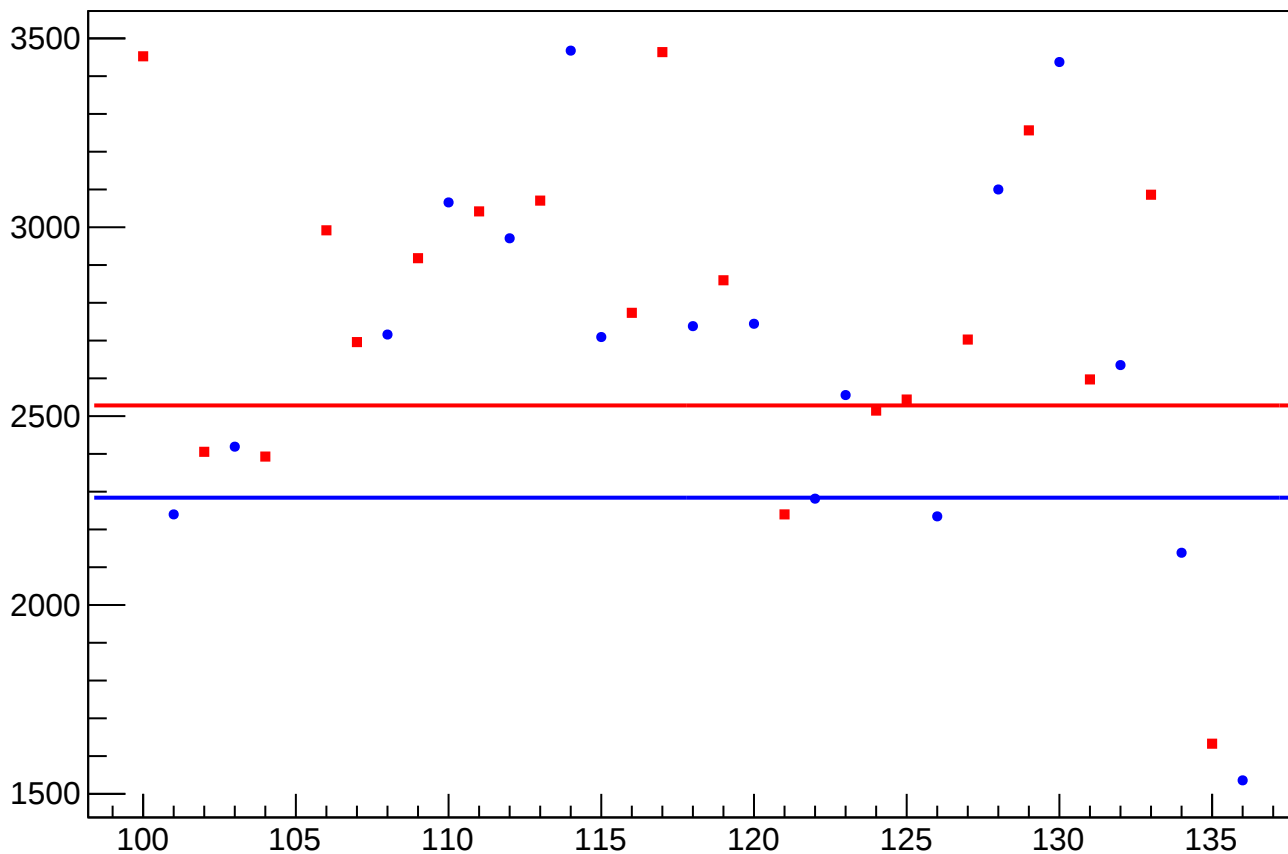
Right Out: 428.595 $\pm$ 975.409  $\chi^2$ /NDF: 15.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1695.956 $\pm$ 914.855  $\chi^2$ /NDF: 16.6/16

428.595 $\pm$ 975.409  $\chi^2$ /NDF: 15.2/18

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 2284.104 $\pm$ 0.647  $\chi^2$ /NDF: 793993.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

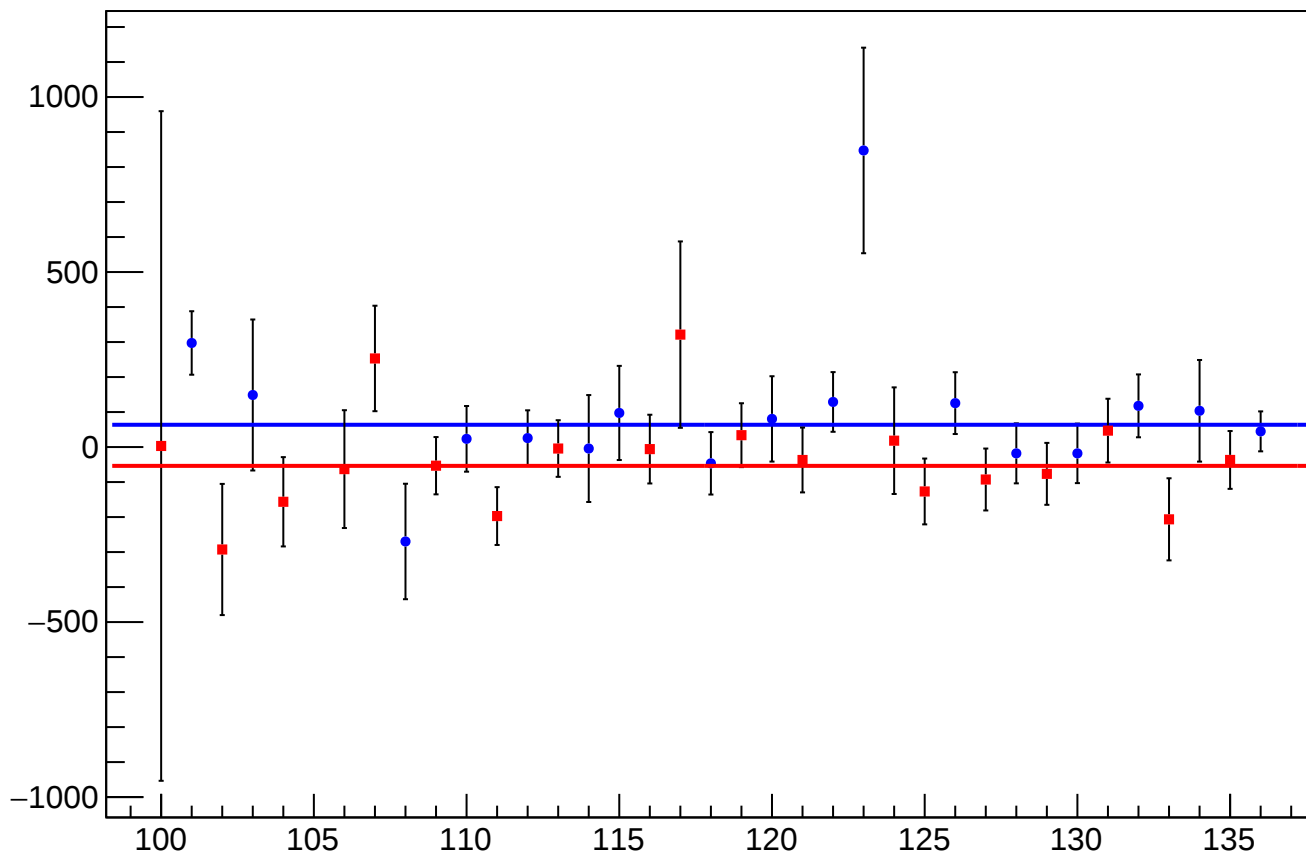
Right Out: 2528.289 $\pm$ 0.690  $\chi^2$ /NDF: 497511.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2284.104 $\pm$ 0.647  $\chi^2$ /NDF: 793993.4/16

2528.289 $\pm$ 0.690  $\chi^2$ /NDF: 497511.9/18

# reg\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 63.666+/-23.743  $\chi^2/\text{NDF}$ : 23.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

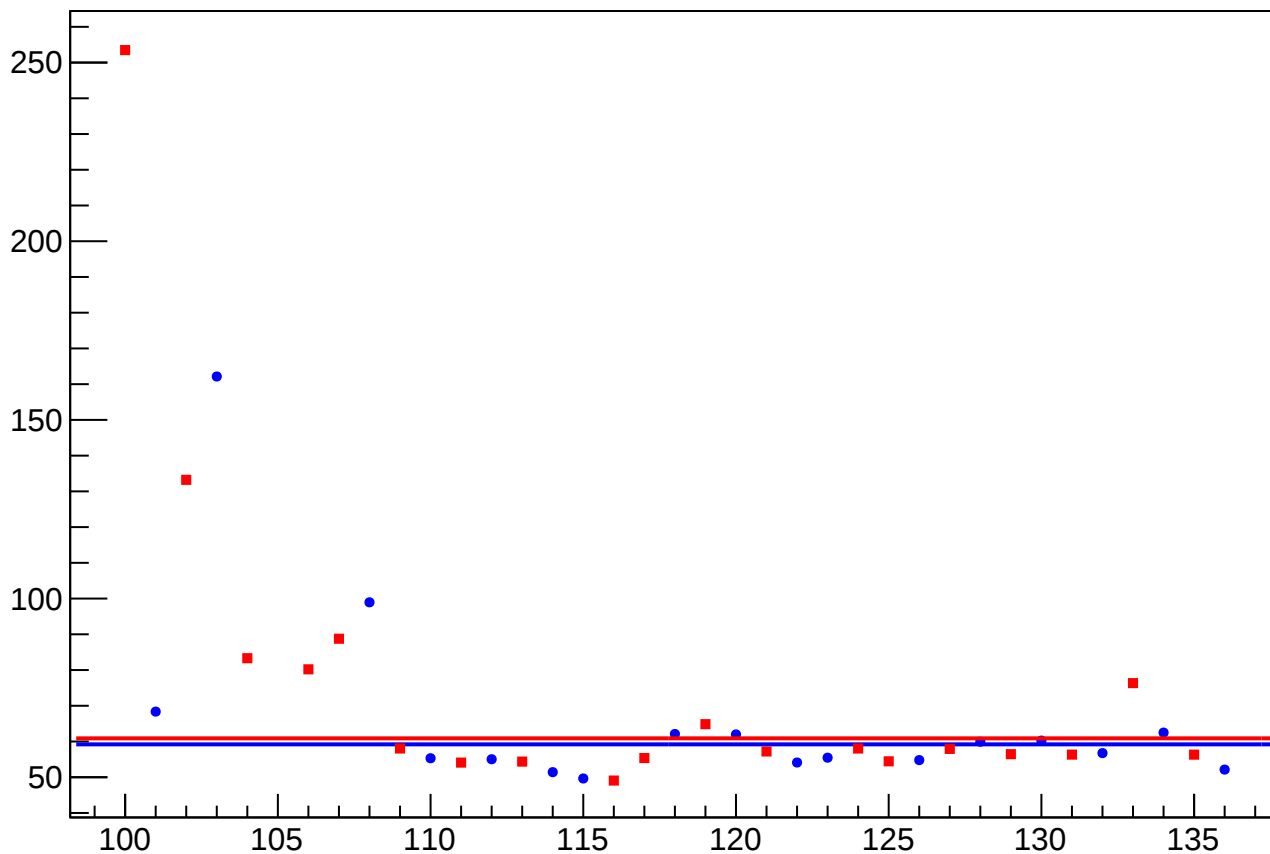
Right Out: -53.748+/-24.073  $\chi^2/\text{NDF}$ : 17.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

63.666+/-23.743  $\chi^2/\text{NDF}$ : 23.7/16

-53.748+/-24.073  $\chi^2/\text{NDF}$ : 17.0/18

# reg\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 59.200+/-0.017  $\chi^2/\text{NDF}$ : 665472.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

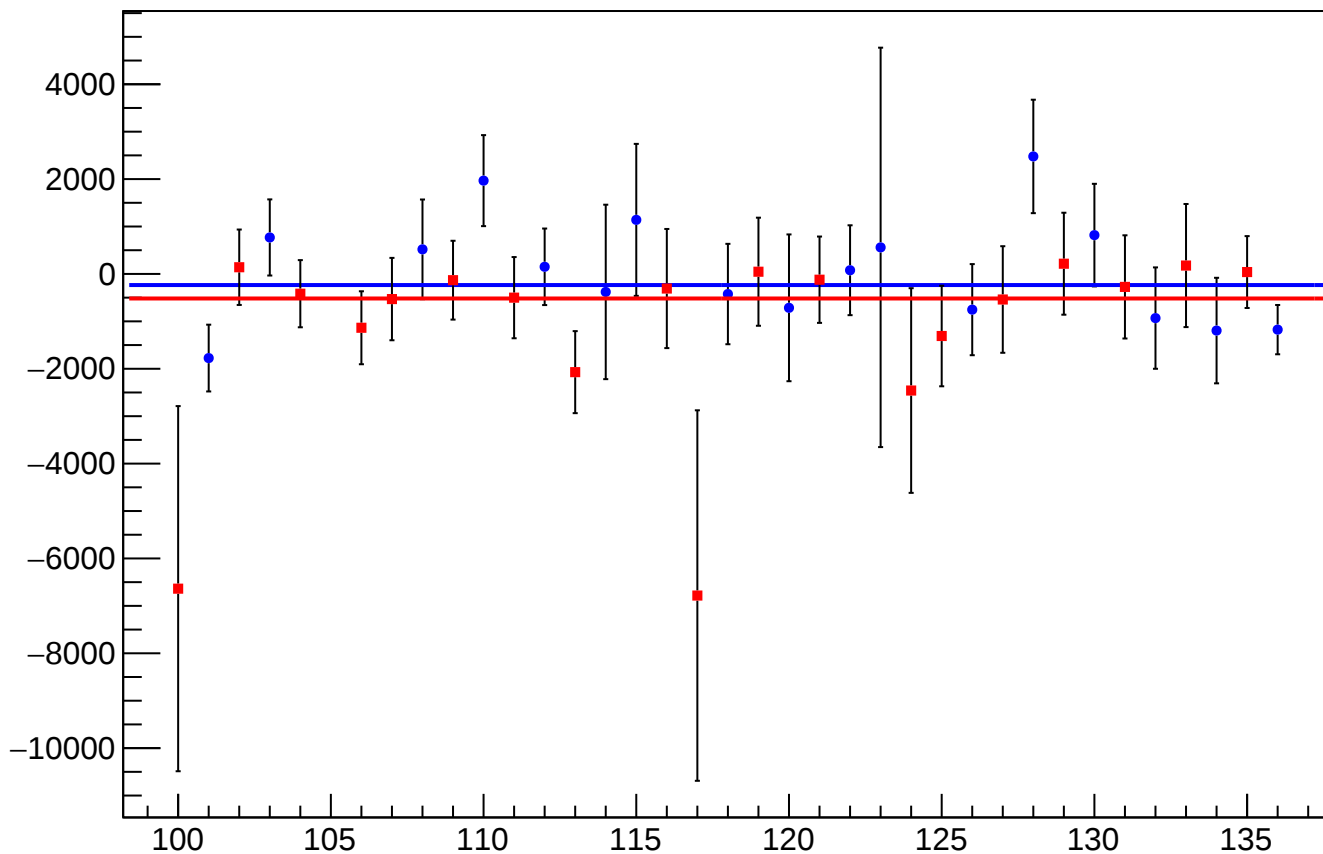
Right Out: 60.885+/-0.017  $\chi^2/\text{NDF}$ : 664537.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

59.200+/-0.017  $\chi^2/\text{NDF}$ : 665472.4/16

60.885+/-0.017  $\chi^2/\text{NDF}$ : 664537.1/18

# asym\_sam\_37\_dd\_correction\_mean vs Slug



Right In: -234.492+/-233.880  $\chi^2$ /NDF: 24.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

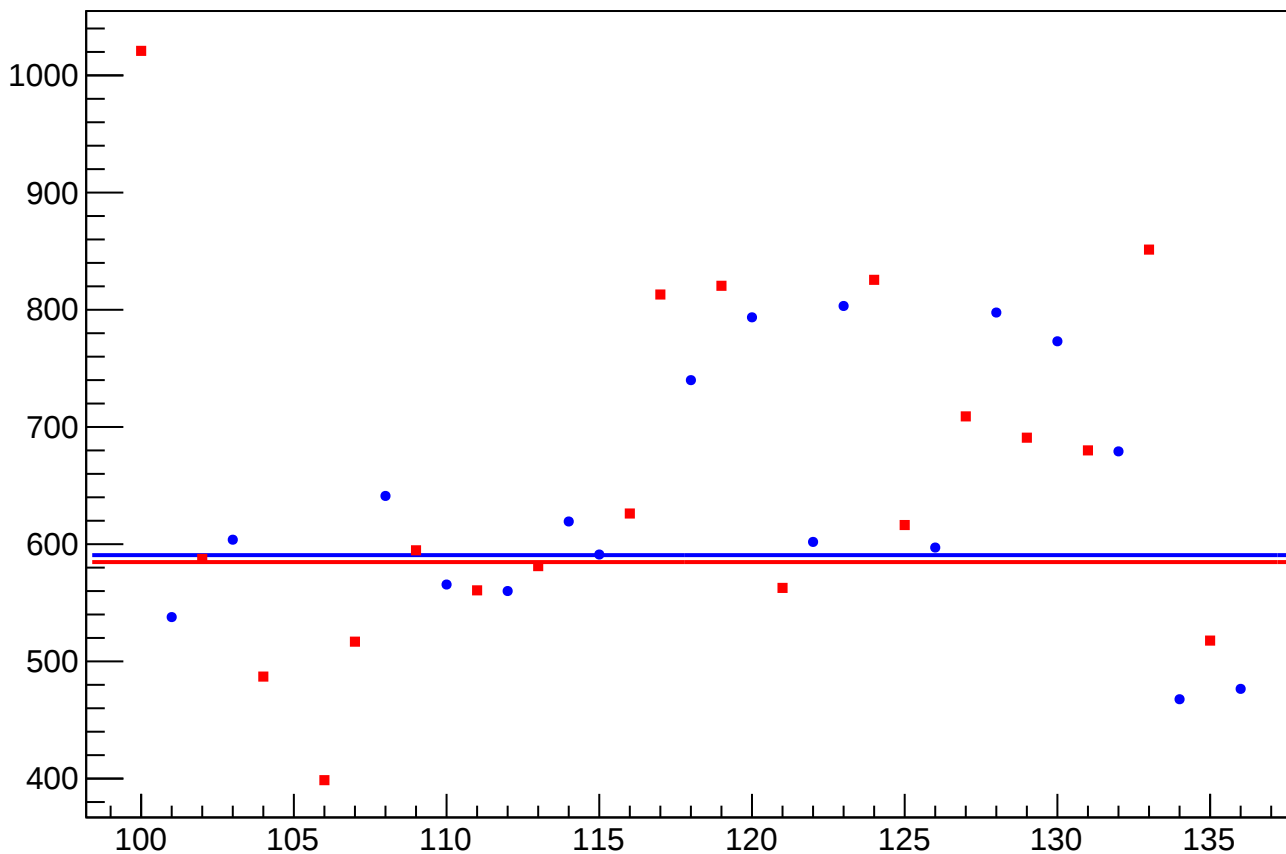
Right Out: -517.894+/-226.910  $\chi^2$ /NDF: 13.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-234.492+/-233.880  $\chi^2$ /NDF: 24.2/16

-517.894+/-226.910  $\chi^2$ /NDF: 13.1/18

# asym\_sam\_37\_dd\_correction\_rms vs Slug



Right In: 590.659+/-0.165  $\chi^2/\text{NDF}$ : 352080.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

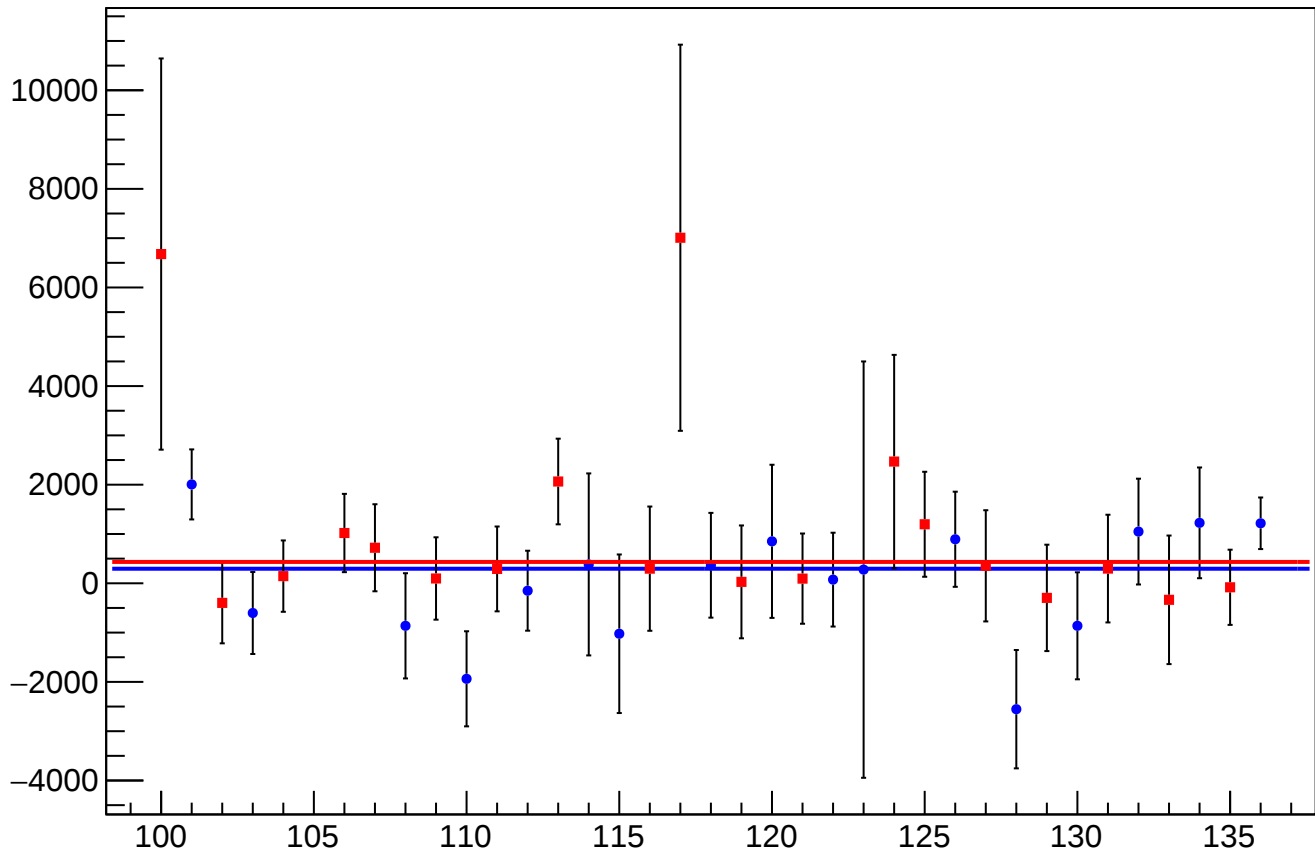
Right Out: 584.731+/-0.160  $\chi^2/\text{NDF}$ : 476615.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

590.659+/-0.165  $\chi^2/\text{NDF}$ : 352080.1/16

584.731+/-0.160  $\chi^2/\text{NDF}$ : 476615.4/18

# asym\_sam\_37\_dd\_mean vs Slug



Right In: 295.401+/-235.860  $\chi^2/\text{NDF}$ : 26.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

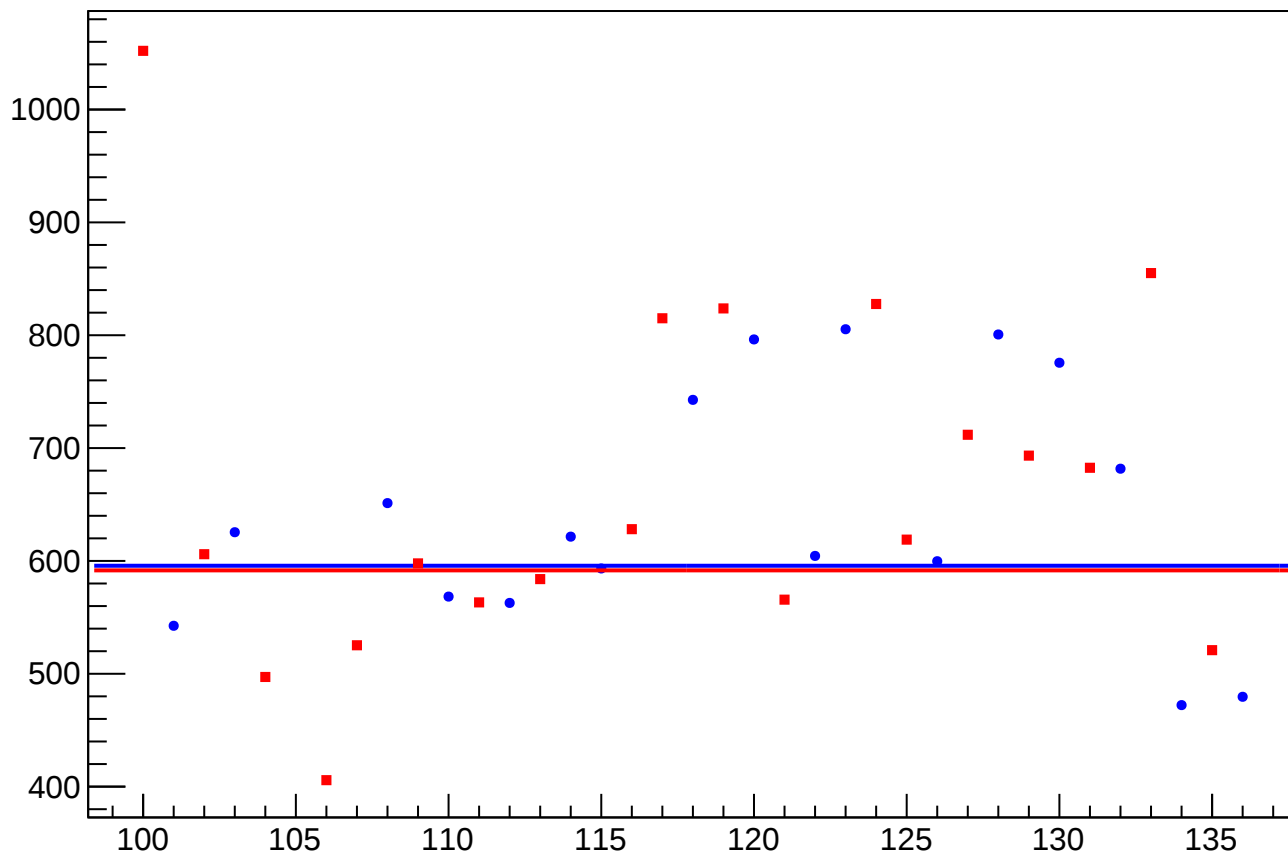
Right Out: 433.303+/-229.554  $\chi^2/\text{NDF}$ : 13.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

295.401+/-235.860  $\chi^2/\text{NDF}$ : 26.1/16

433.303+/-229.554  $\chi^2/\text{NDF}$ : 13.8/18

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 595.734+/-0.167  $\chi^2/\text{NDF}$ : 350058.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

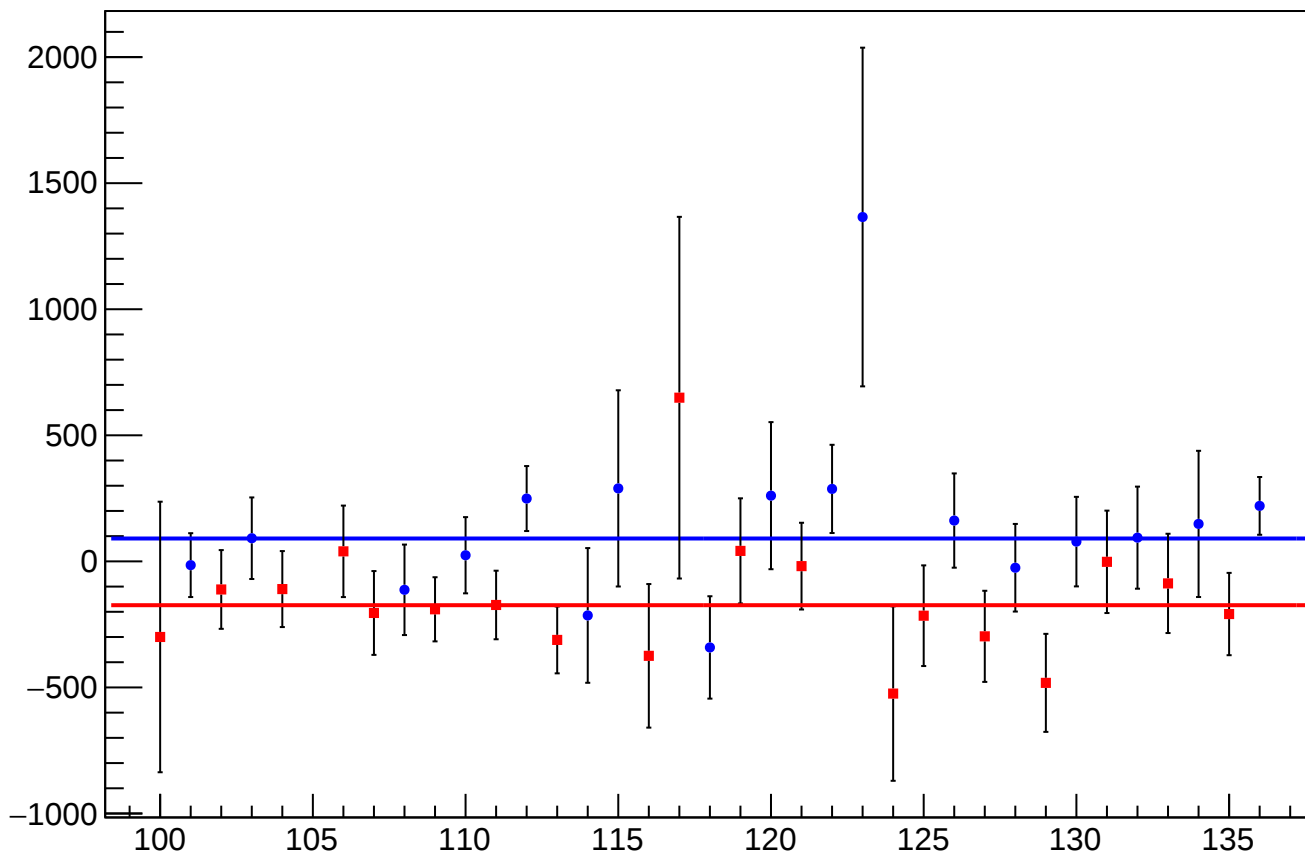
Right Out: 591.636+/-0.162  $\chi^2/\text{NDF}$ : 455412.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

595.734+/-0.167  $\chi^2/\text{NDF}$ : 350058.2/16

591.636+/-0.162  $\chi^2/\text{NDF}$ : 455412.7/18

# reg\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 90.711+/-43.312  $\chi^2/\text{NDF}$ : 16.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

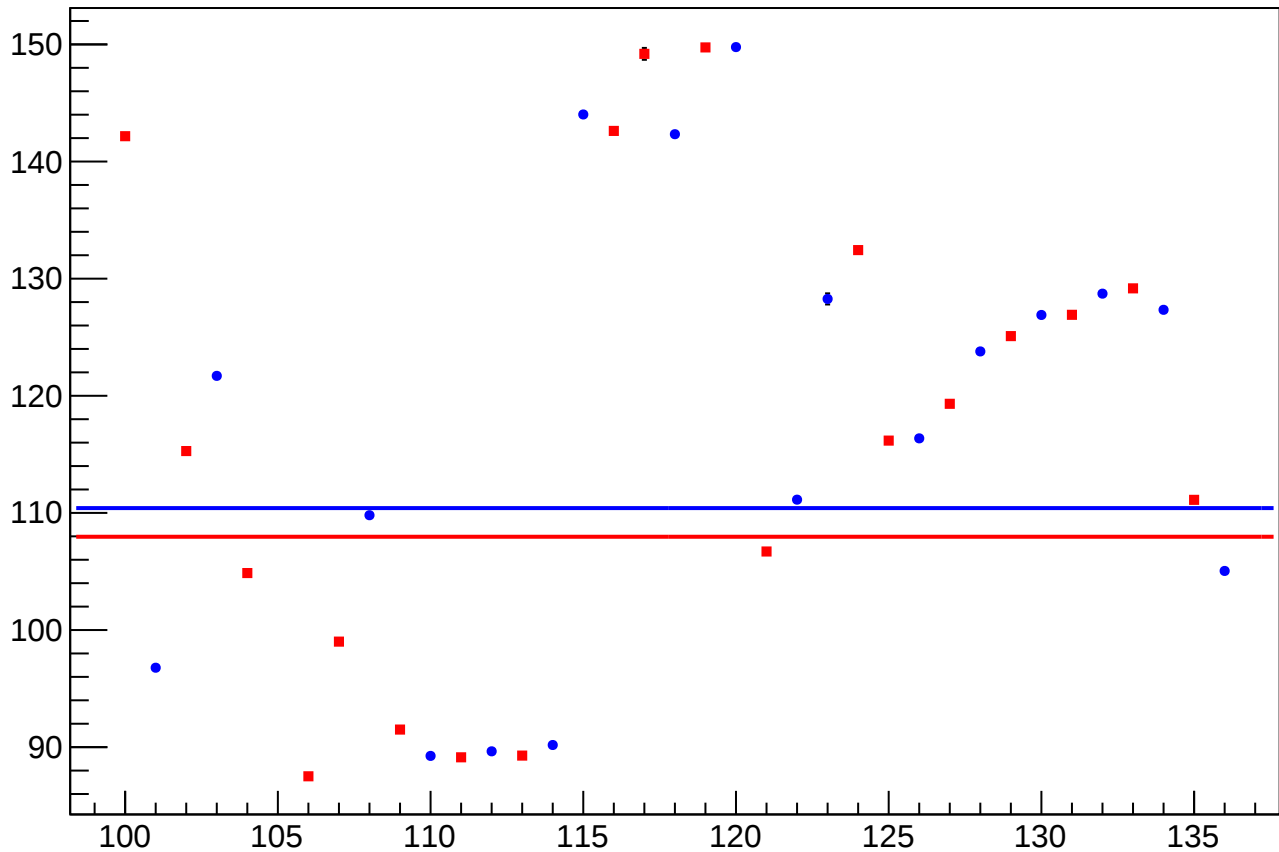
Right Out: -173.829+/-41.629  $\chi^2/\text{NDF}$ : 11.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

90.711+/-43.312  $\chi^2/\text{NDF}$ : 16.9/16

-173.829+/-41.629  $\chi^2/\text{NDF}$ : 11.6/18

# reg\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 110.411+/-0.031  $\chi^2/\text{NDF}$ : 296425.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

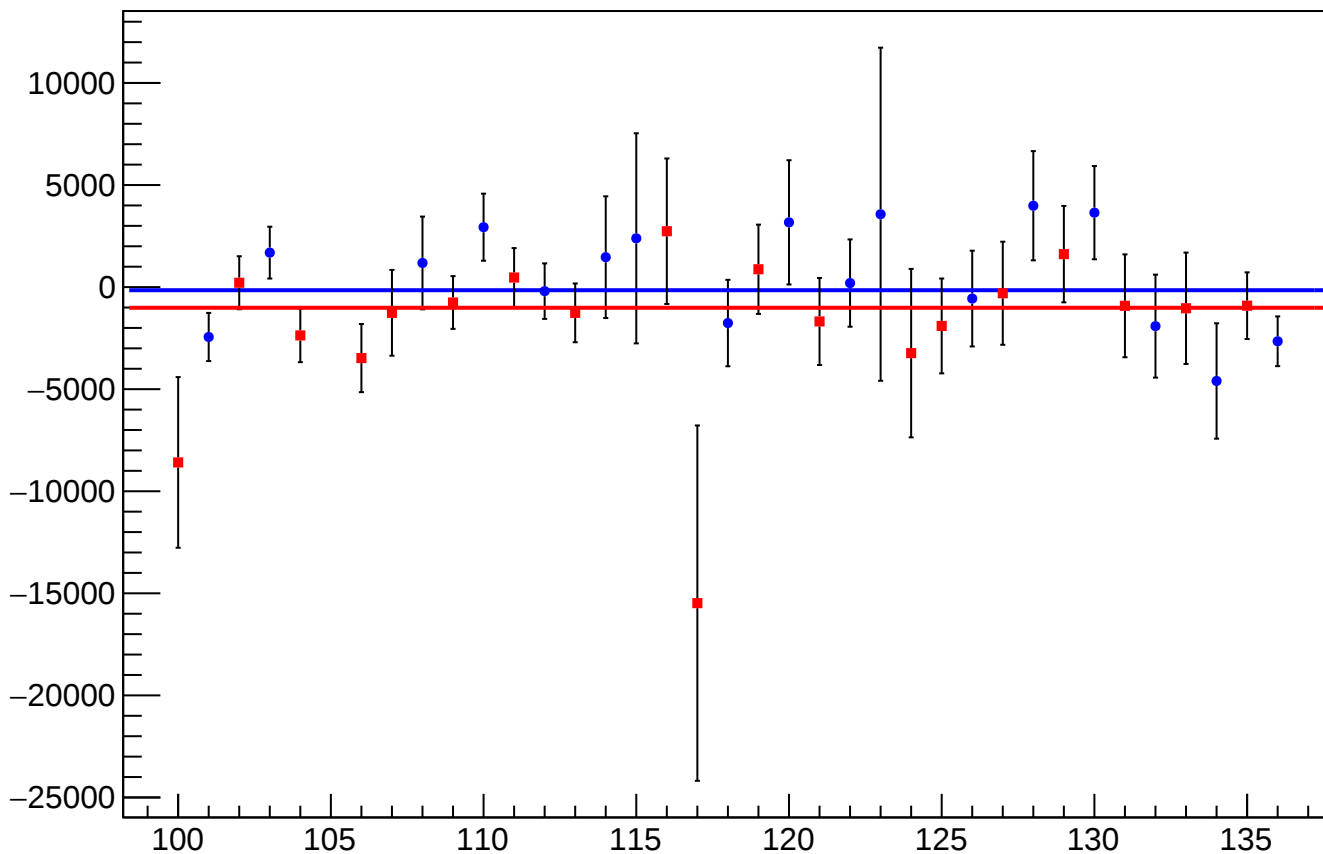
Right Out: 107.965+/-0.029  $\chi^2/\text{NDF}$ : 350938.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

110.411+/-0.031  $\chi^2/\text{NDF}$ : 296425.4/16

107.965+/-0.029  $\chi^2/\text{NDF}$ : 350938.6/18

# asym\_sam\_48\_dd\_correction\_mean vs Slug



Right In: -152.403+/-464.753  $\chi^2$ /NDF: 24.7/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

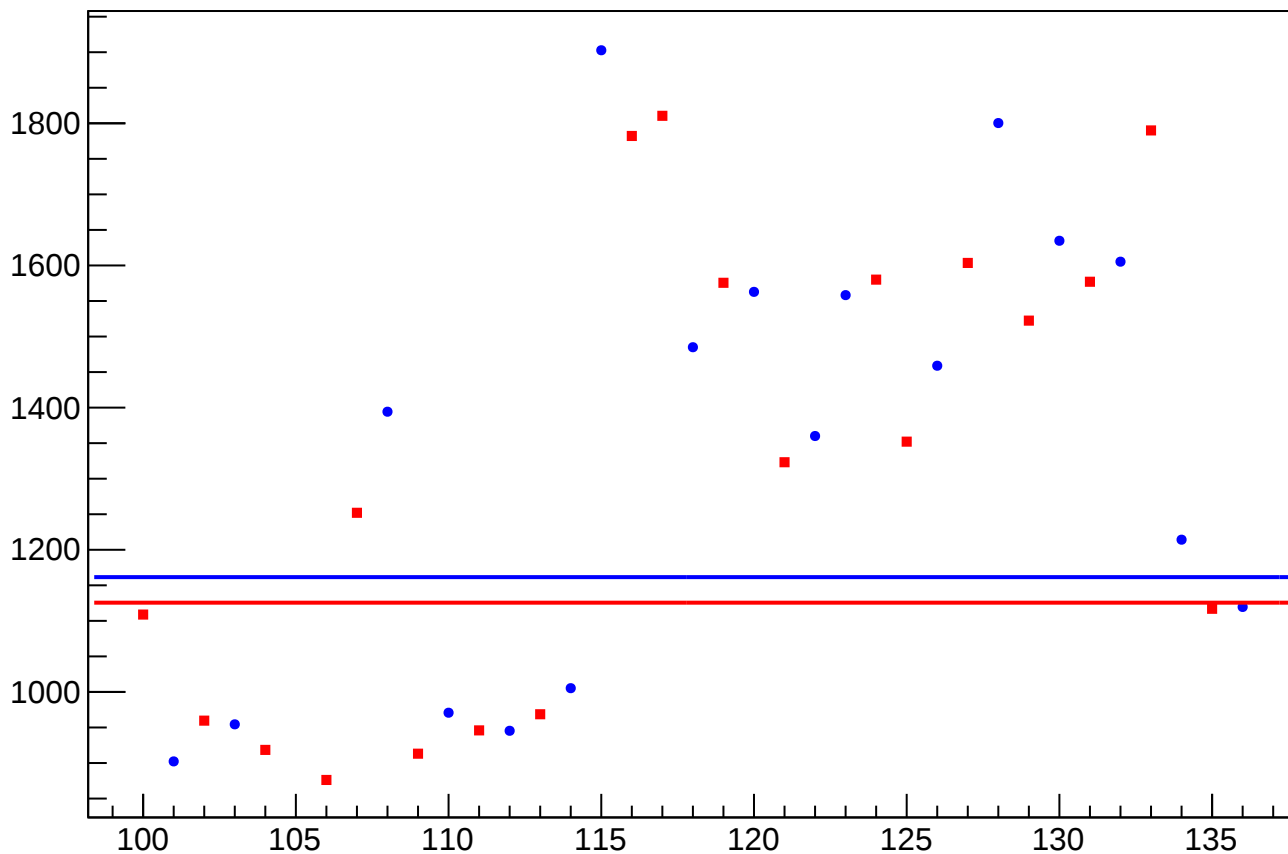
Right Out: -1012.689+/-440.672  $\chi^2$ /NDF: 15.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-152.403+/-464.753  $\chi^2$ /NDF: 24.7/16

-1012.689+/-440.672  $\chi^2$ /NDF: 15.0/18

# asym\_sam\_48\_dd\_correction\_rms vs Slug



Right In: 1161.530 $\pm$ 0.329  $\chi^2$ /NDF: 695906.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

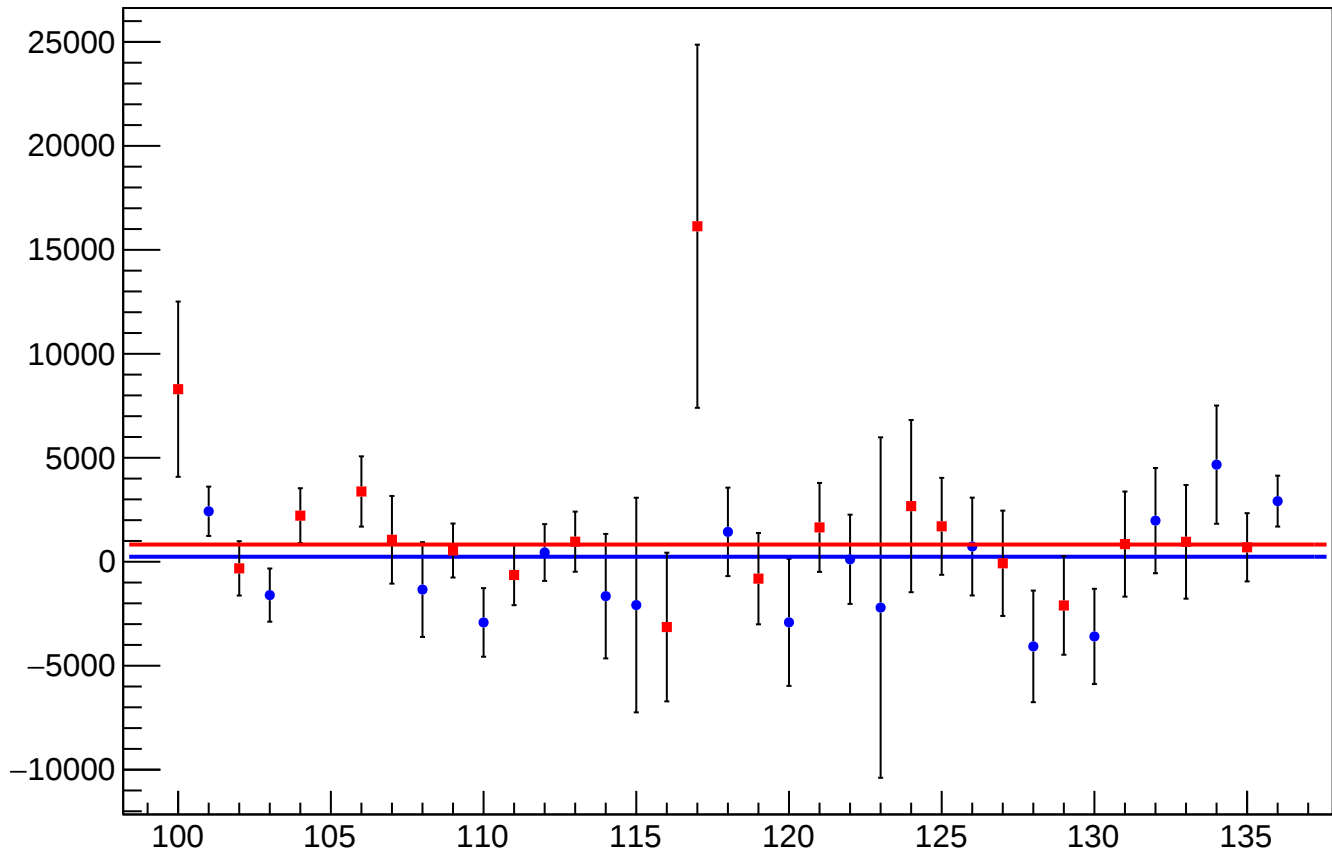
Right Out: 1125.588 $\pm$ 0.312  $\chi^2$ /NDF: 780147.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1161.530 $\pm$ 0.329  $\chi^2$ /NDF: 695906.9/16

1125.588 $\pm$ 0.312  $\chi^2$ /NDF: 780147.4/18

# asym\_sam\_48\_dd\_mean vs Slug



Right In: 240.732 $\pm$ 467.036  $\chi^2$ /NDF: 24.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

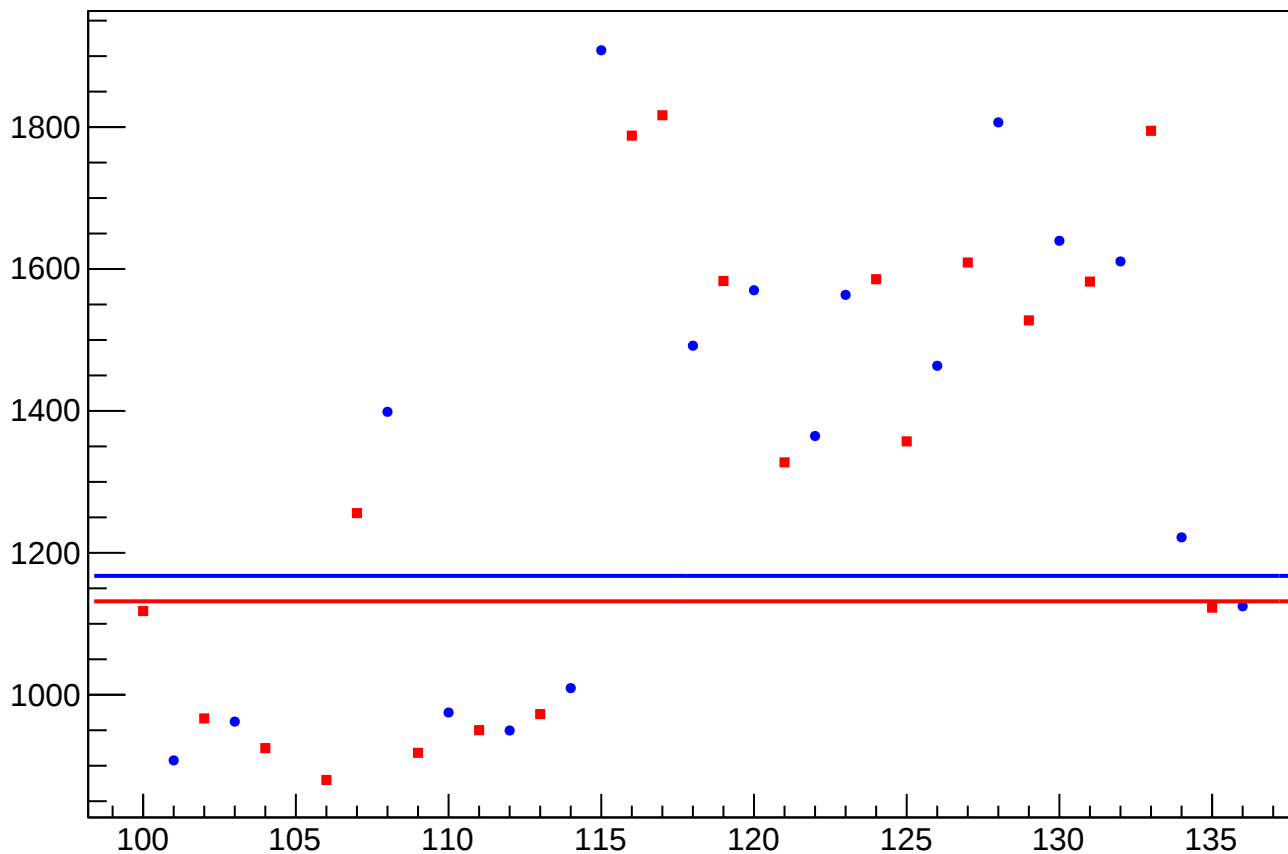
Right Out: 827.871 $\pm$ 443.090  $\chi^2$ /NDF: 15.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

240.732 $\pm$ 467.036  $\chi^2$ /NDF: 24.8/16

827.871 $\pm$ 443.090  $\chi^2$ /NDF: 15.4/18

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 1167.539 $\pm$ 0.330  $\chi^2$ /NDF: 690485.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

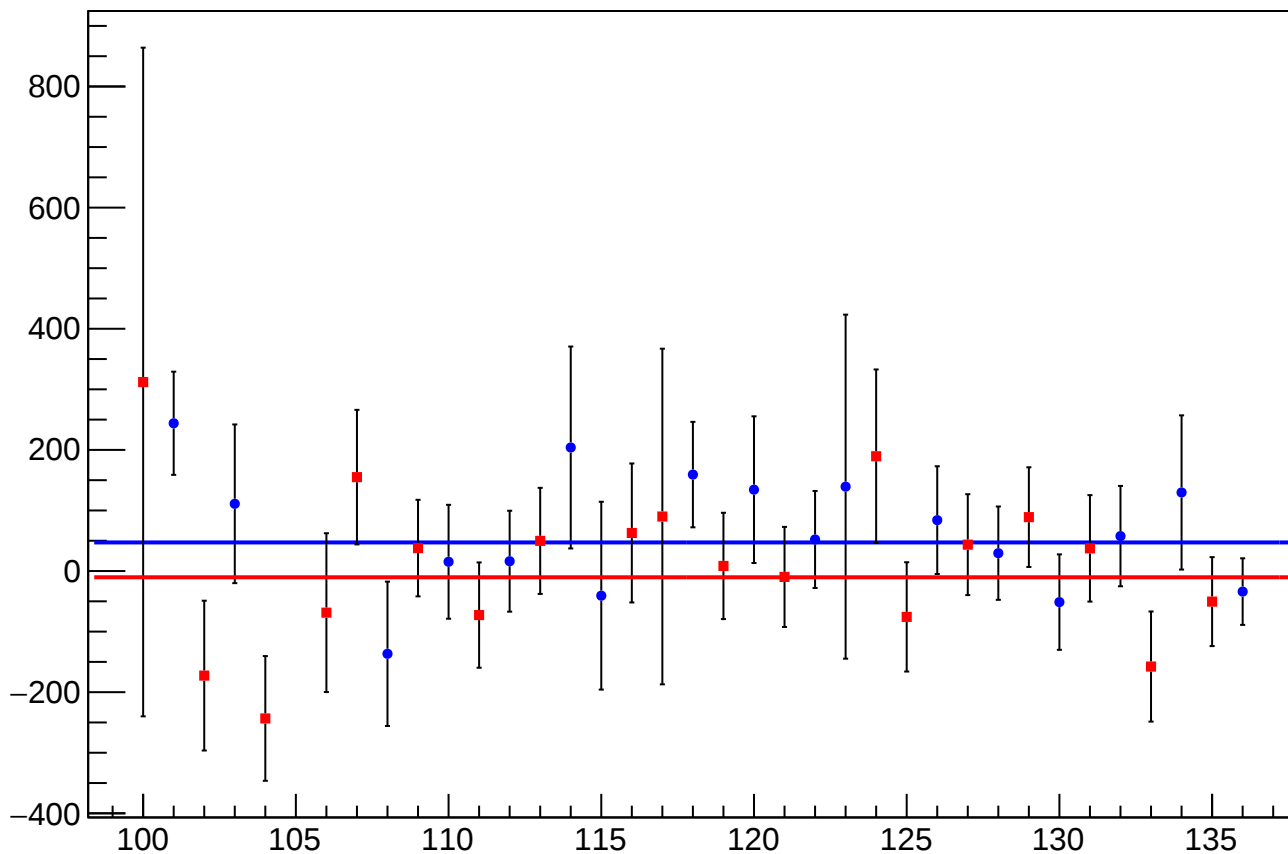
Right Out: 1131.693 $\pm$ 0.313  $\chi^2$ /NDF: 773788.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1167.539 $\pm$ 0.330  $\chi^2$ /NDF: 690485.6/16

1131.693 $\pm$ 0.313  $\chi^2$ /NDF: 773788.5/18

# reg\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 47.220+/-22.565  $\chi^2/\text{NDF}$ : 16.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

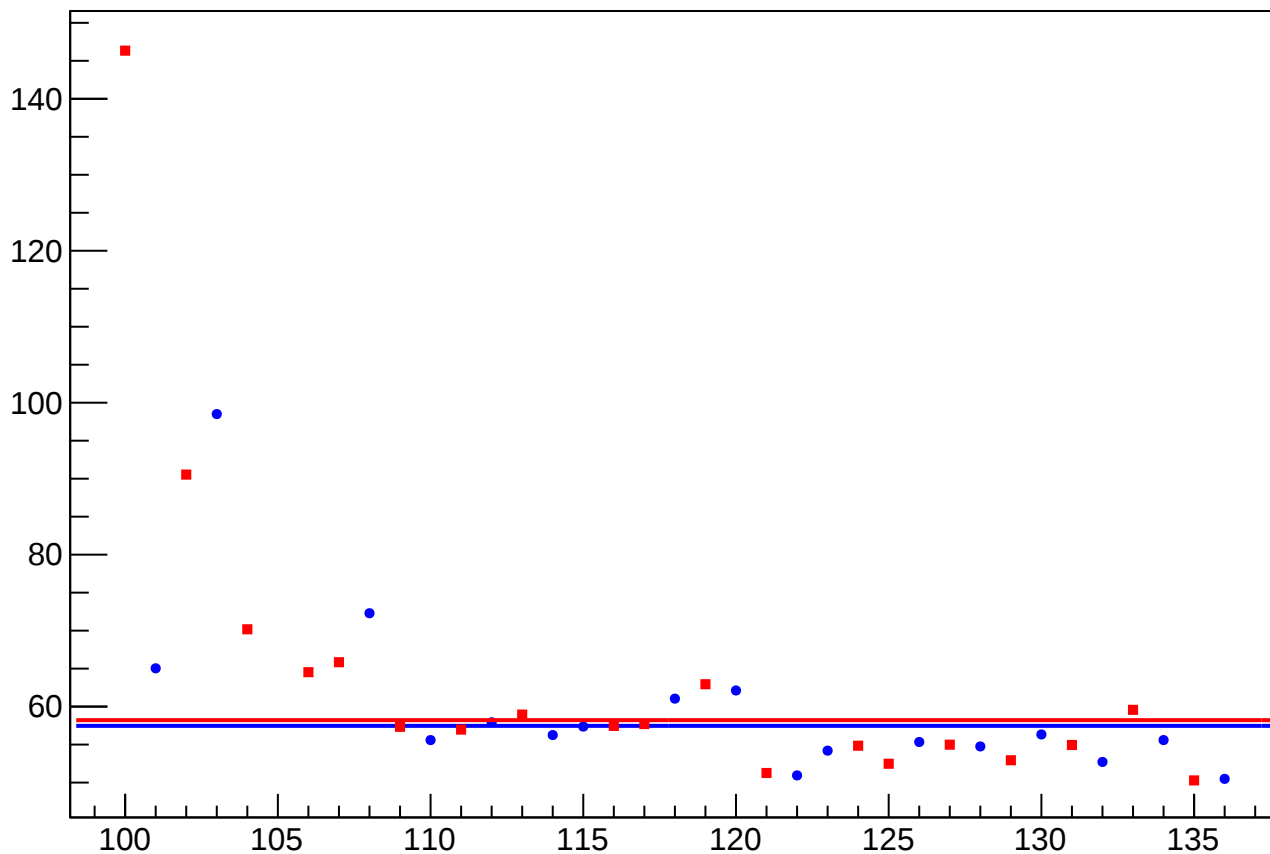
Right Out: -10.290+/-22.434  $\chi^2/\text{NDF}$ : 19.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

47.220+/-22.565  $\chi^2/\text{NDF}$ : 16.1/16

-10.290+/-22.434  $\chi^2/\text{NDF}$ : 19.1/18

# reg\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 57.465+/-0.016  $\chi^2/\text{NDF}$ : 307156.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

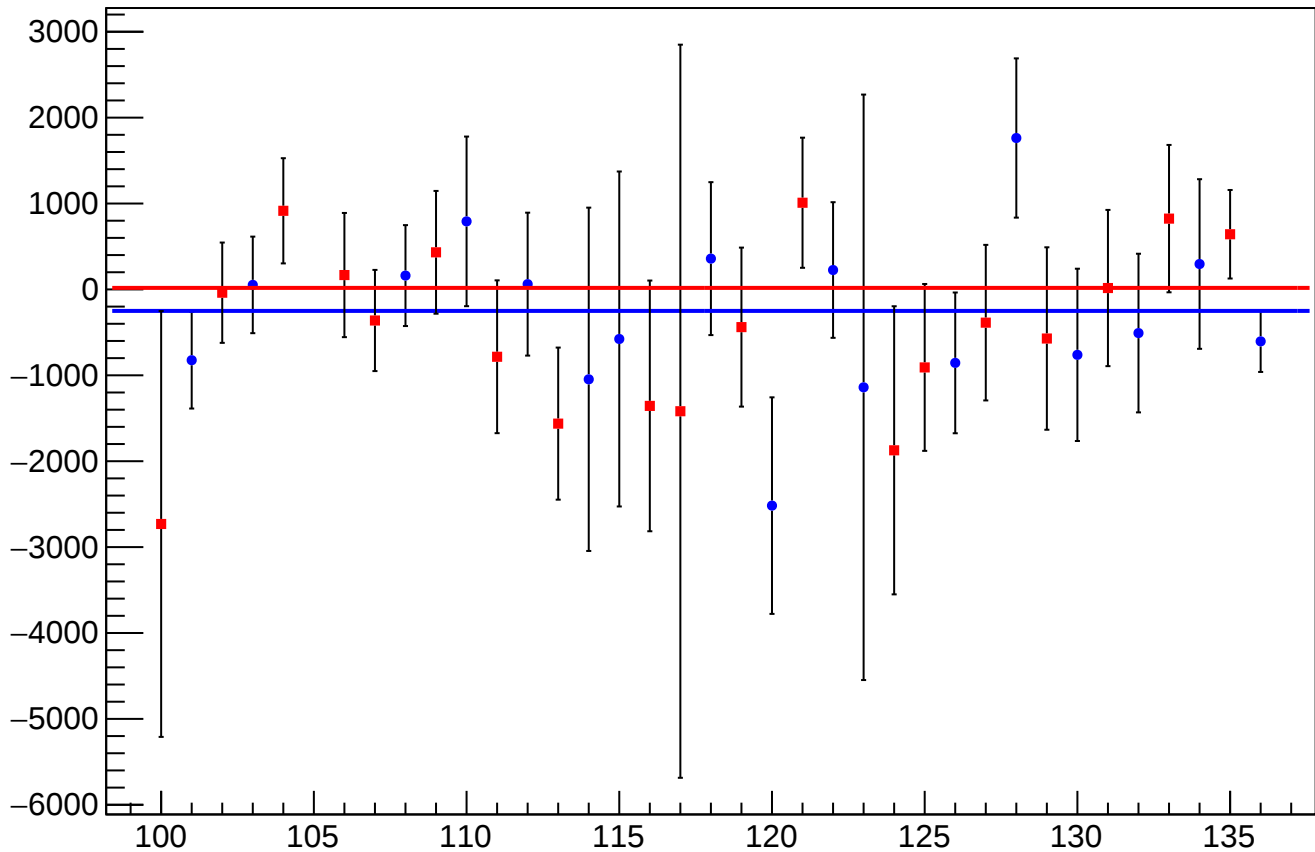
Right Out: 58.215+/-0.016  $\chi^2/\text{NDF}$ : 296491.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

57.465+/-0.016  $\chi^2/\text{NDF}$ : 307156.4/16

58.215+/-0.016  $\chi^2/\text{NDF}$ : 296491.1/18

# asym\_sam\_13\_57\_dd\_correction\_mean vs Slug



Right In: -250.140 $\pm$ 184.092  $\chi^2$ /NDF: 14.3/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

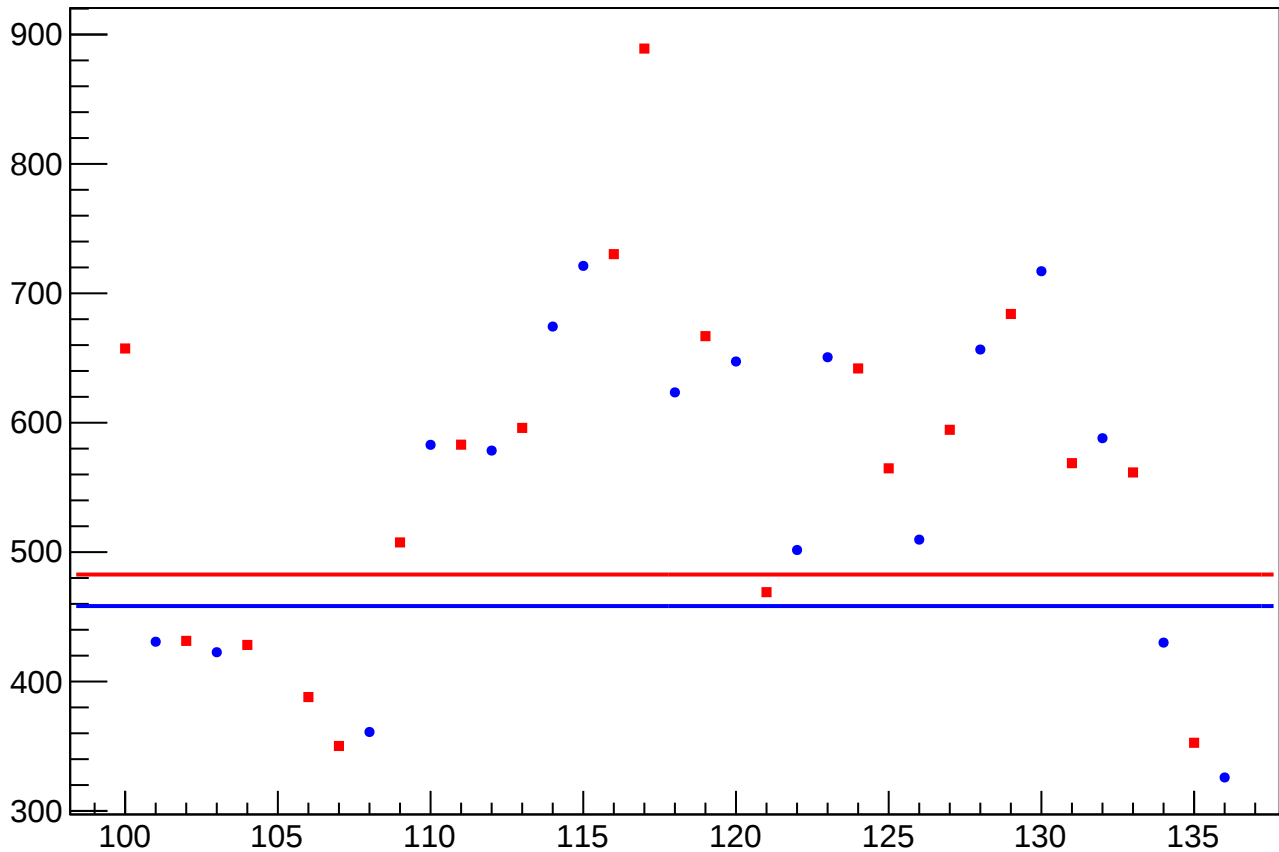
Right Out: 17.827 $\pm$ 187.834  $\chi^2$ /NDF: 16.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-250.140 $\pm$ 184.092  $\chi^2$ /NDF: 14.3/16

17.827 $\pm$ 187.834  $\chi^2$ /NDF: 16.2/18

# asym\_sam\_13\_57\_dd\_correction\_rms vs Slug



Right In: 458.324+/-0.130  $\chi^2/\text{NDF}$ : 877201.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

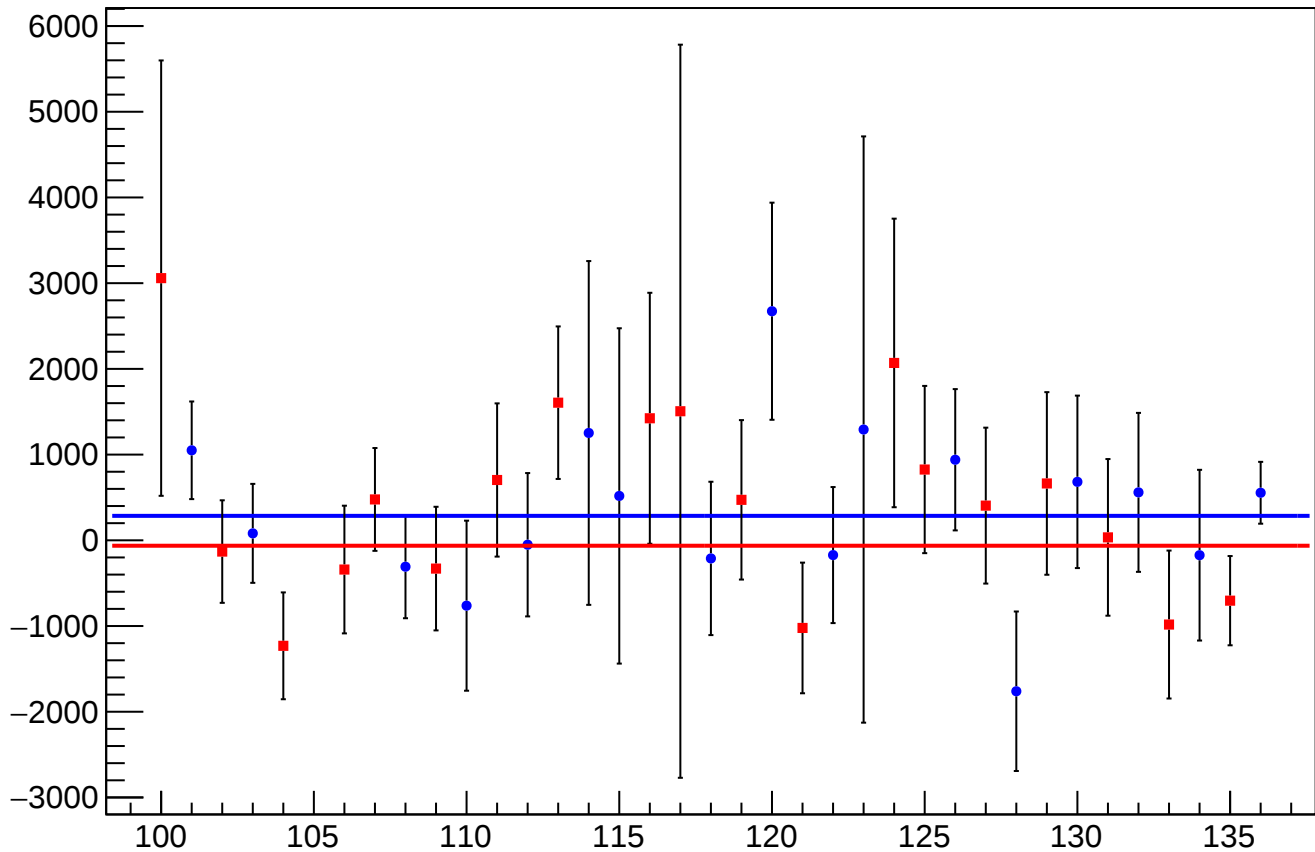
458.324+/-0.130  $\chi^2/\text{NDF}$ : 877201.7/16

Right Out: 482.682+/-0.133  $\chi^2/\text{NDF}$ : 689691.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

482.682+/-0.133  $\chi^2/\text{NDF}$ : 689691.6/18

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 285.349+/-186.262  $\chi^2/\text{NDF}$ : 15.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

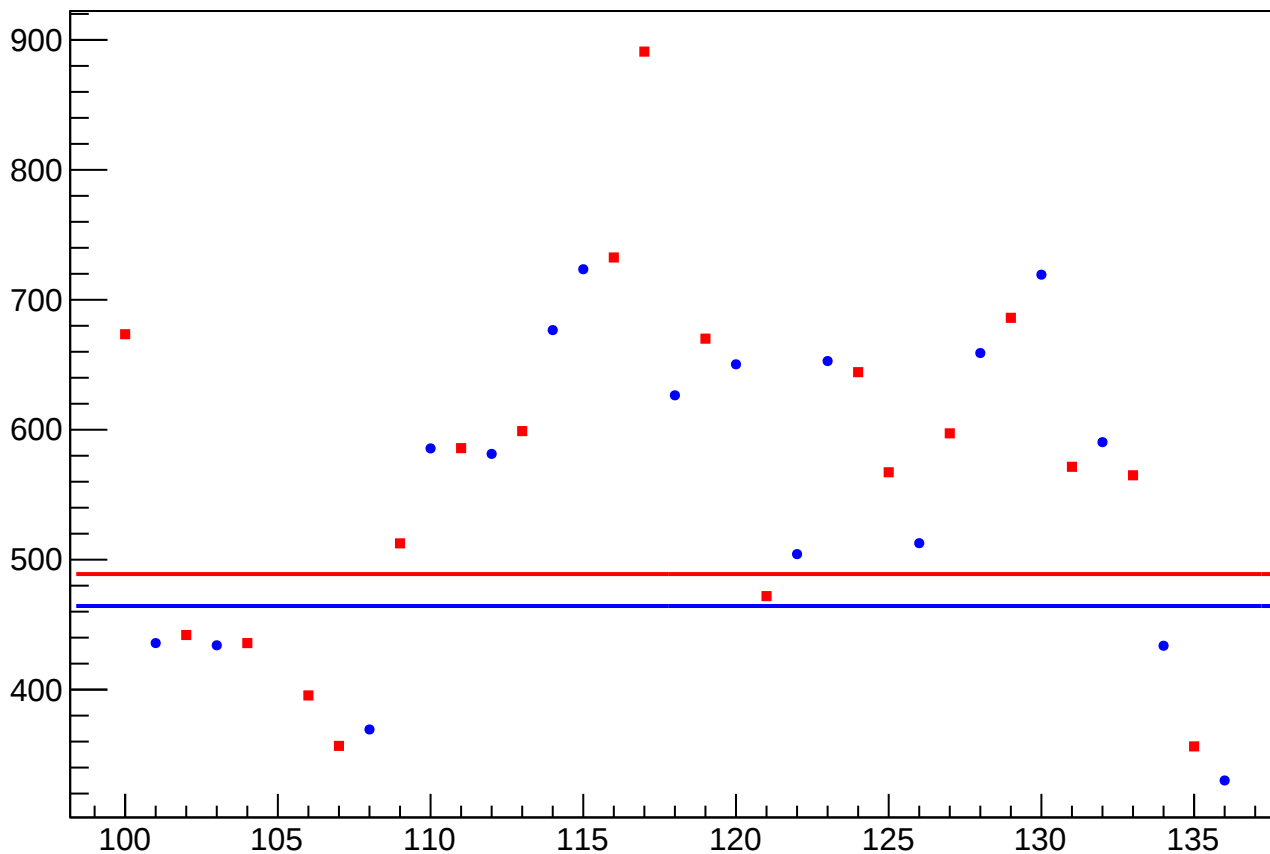
Right Out: -63.244+/-190.118  $\chi^2/\text{NDF}$ : 19.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

285.349+/-186.262  $\chi^2/\text{NDF}$ : 15.2/16

-63.244+/-190.118  $\chi^2/\text{NDF}$ : 19.3/18

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 464.341+/-0.132     $\chi^2/\text{NDF}$ : 845900.9/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

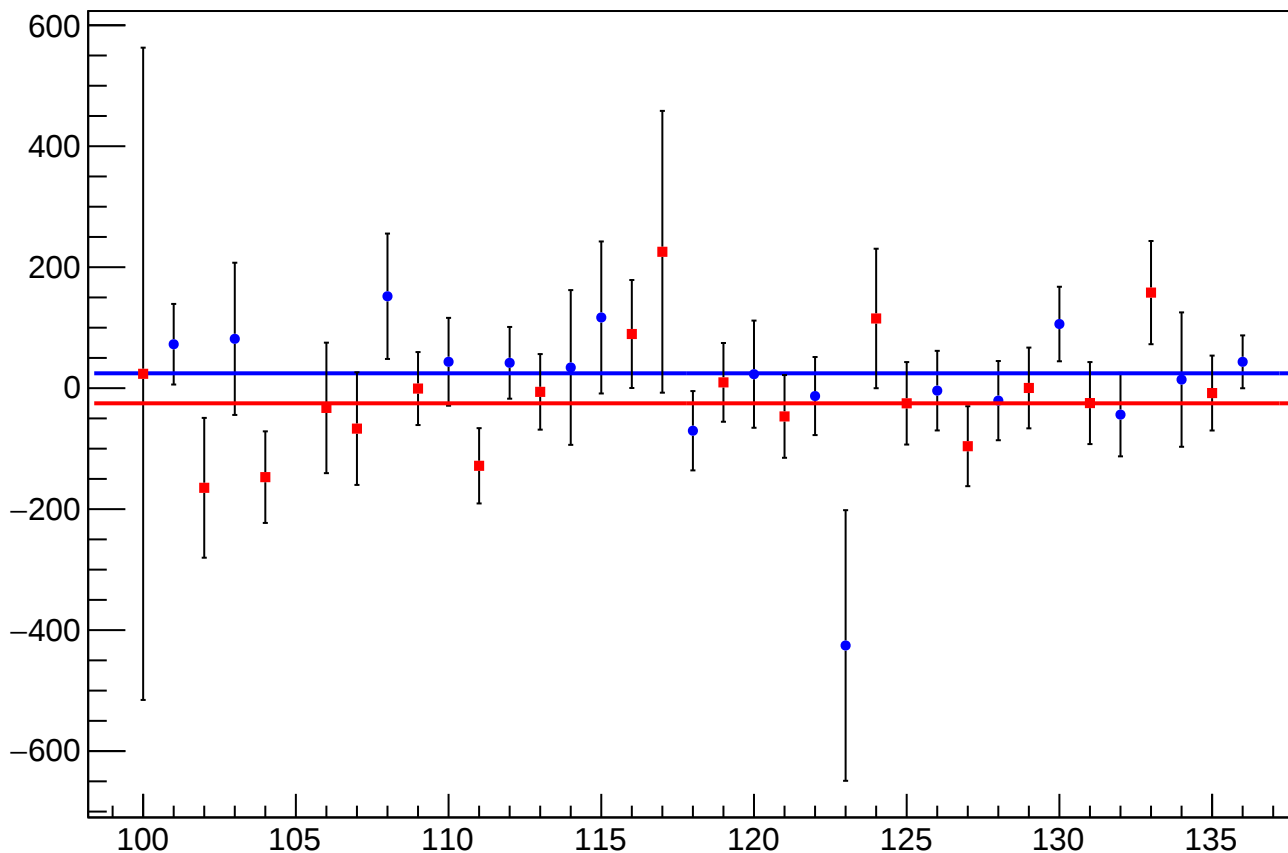
Right Out: 488.925+/-0.134     $\chi^2/\text{NDF}$ : 660678.9/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

464.341+/-0.132     $\chi^2/\text{NDF}$ : 845900.9/16

488.925+/-0.134     $\chi^2/\text{NDF}$ : 660678.9/18

# reg\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 24.584+/-17.839  $\chi^2/\text{NDF}$ : 13.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

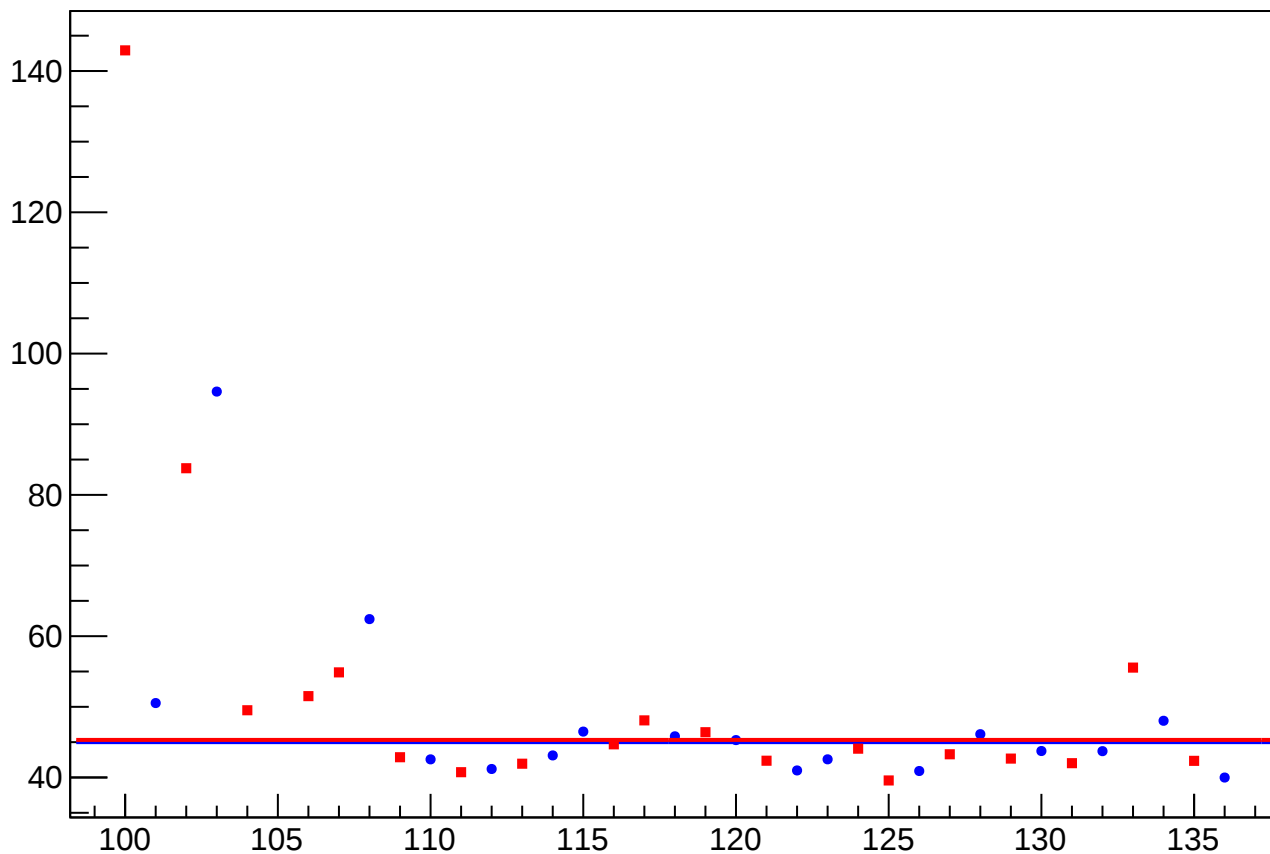
Right Out: -25.029+/-17.687  $\chi^2/\text{NDF}$ : 17.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

24.584+/-17.839  $\chi^2/\text{NDF}$ : 13.0/16

-25.029+/-17.687  $\chi^2/\text{NDF}$ : 17.9/18

# reg\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 45.001+/-0.013  $\chi^2/\text{NDF}$ : 438352.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

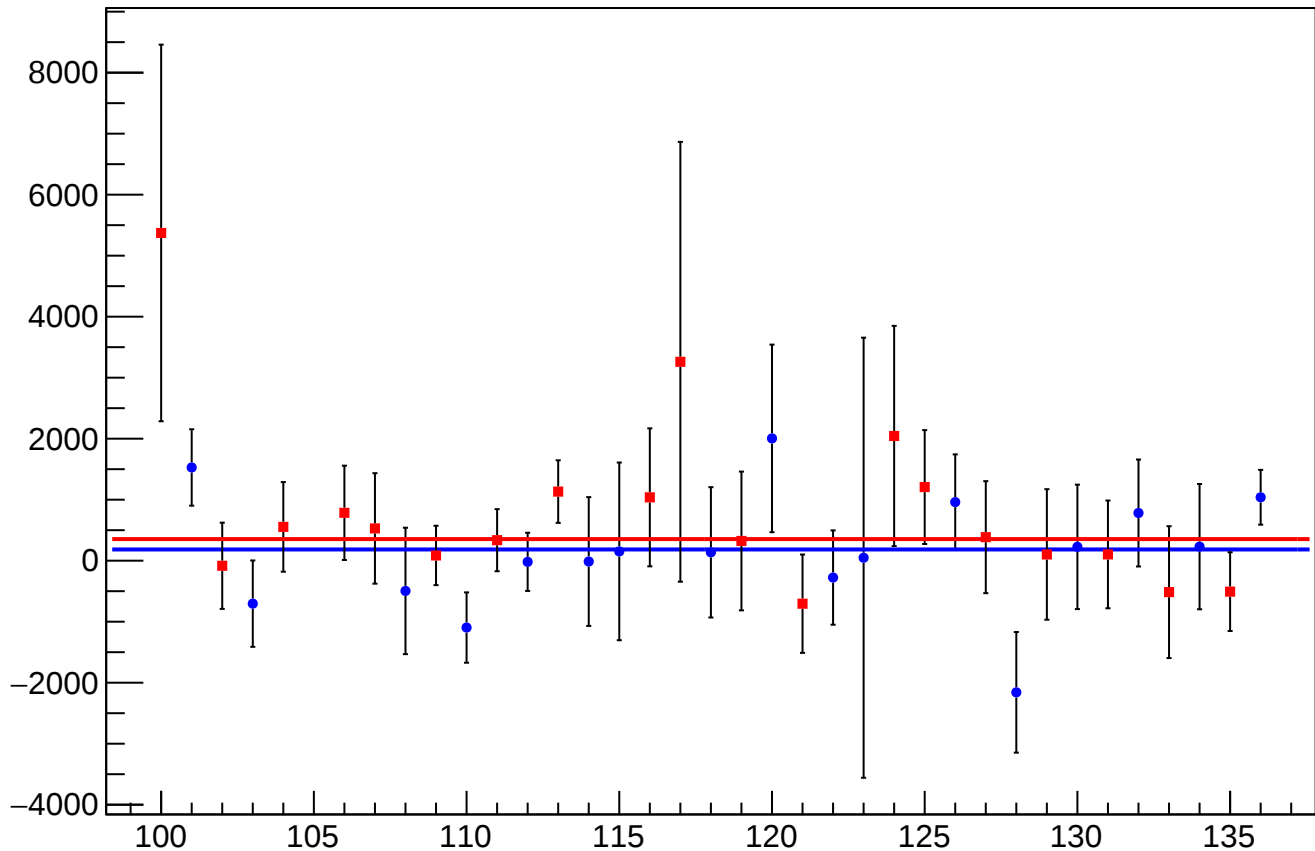
Right Out: 45.316+/-0.013  $\chi^2/\text{NDF}$ : 402885.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

45.001+/-0.013  $\chi^2/\text{NDF}$ : 438352.8/16

45.316+/-0.013  $\chi^2/\text{NDF}$ : 402885.0/18

# asym\_sam\_15\_37\_dd\_correction\_mean vs Slug



Right In: 184.184 $\pm$ 188.558  $\chi^2$ /NDF: 24.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

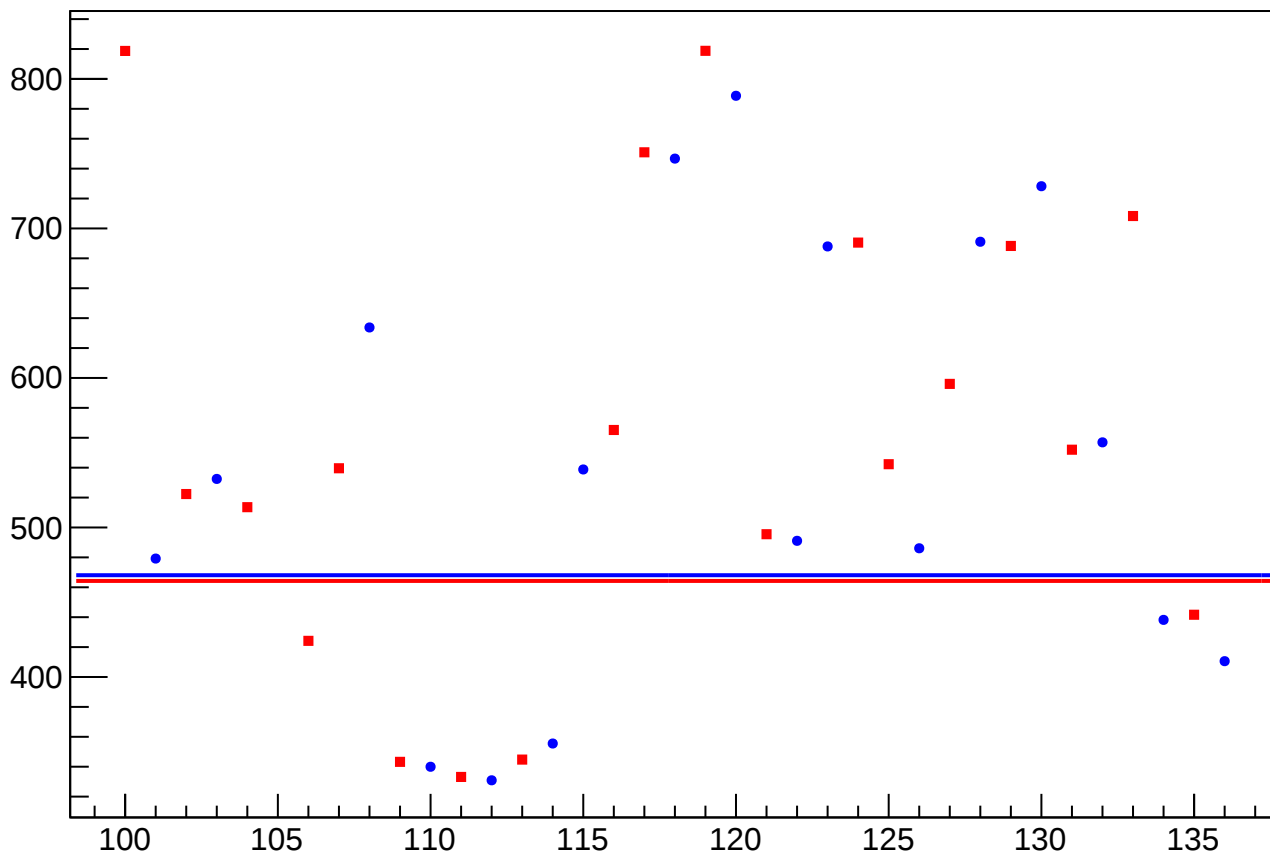
Right Out: 354.136 $\pm$ 182.709  $\chi^2$ /NDF: 13.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

184.184 $\pm$ 188.558  $\chi^2$ /NDF: 24.2/16

354.136 $\pm$ 182.709  $\chi^2$ /NDF: 13.1/18

# asym\_sam\_15\_37\_dd\_correction\_rms vs Slug



Right In: 468.071+/-0.133  $\chi^2/\text{NDF}$ : 880319.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

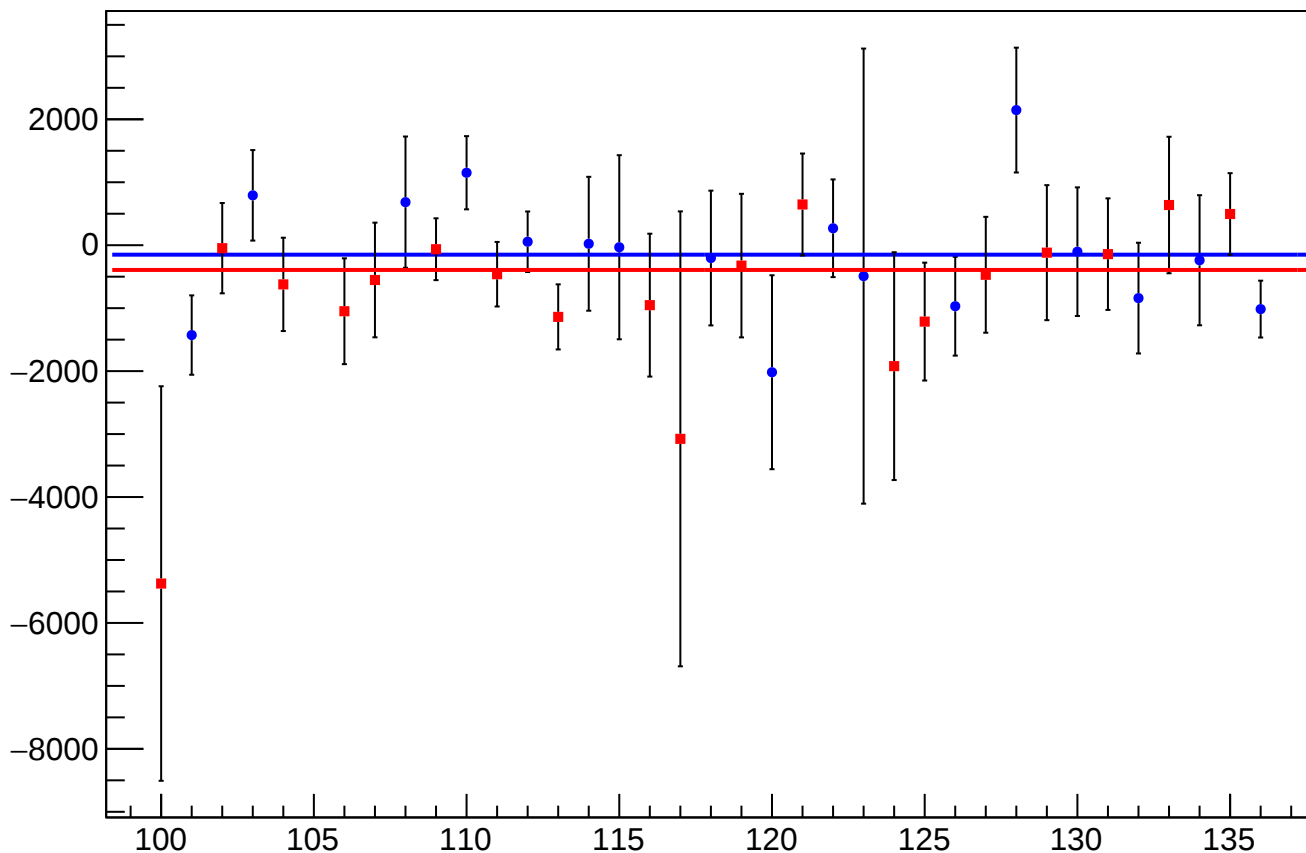
468.071+/-0.133  $\chi^2/\text{NDF}$ : 880319.3/16

Right Out: 464.256+/-0.129  $\chi^2/\text{NDF}$ : 957413.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

464.256+/-0.129  $\chi^2/\text{NDF}$ : 957413.2/18

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: -150.305+/-189.729  $\chi^2$ /NDF: 24.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

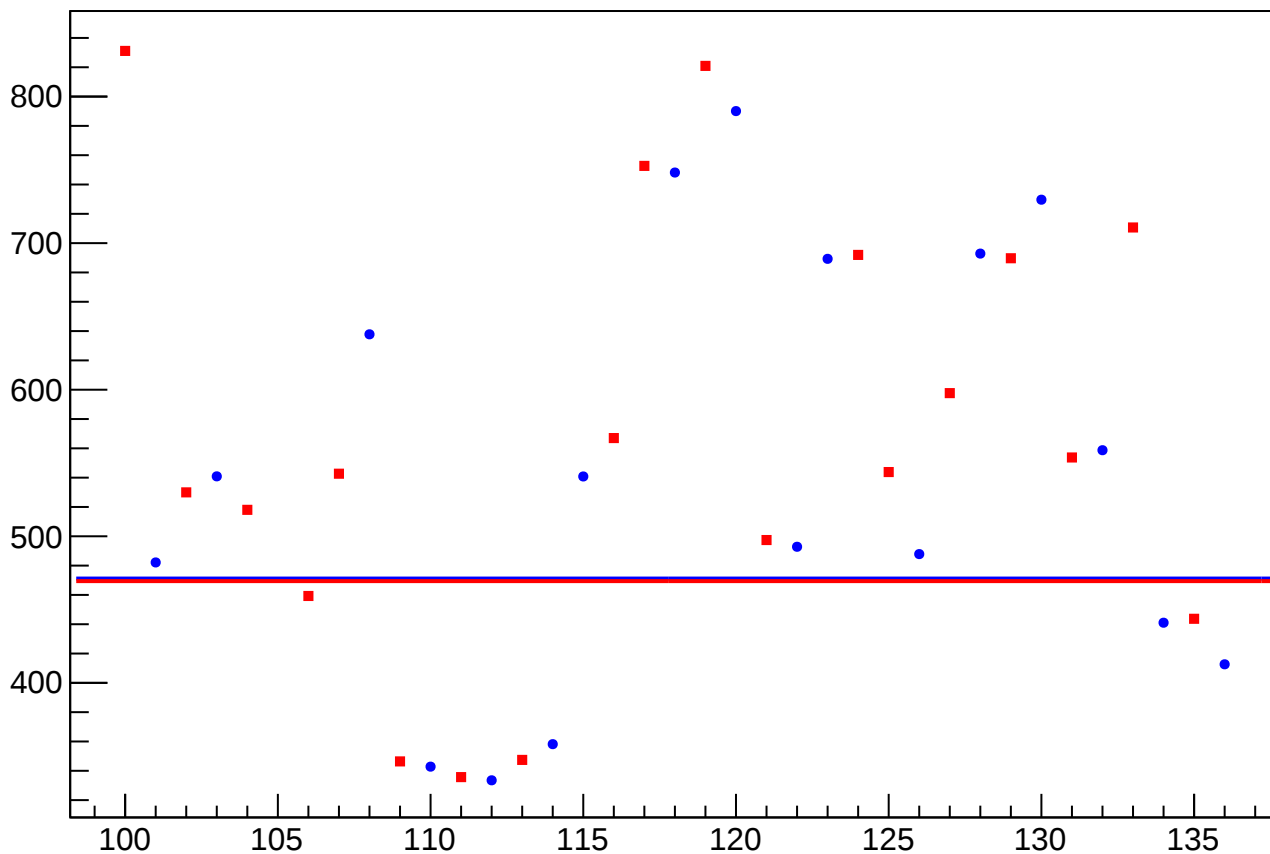
Right Out: -393.005+/-184.659  $\chi^2$ /NDF: 12.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-150.305+/-189.729  $\chi^2$ /NDF: 24.2/16

-393.005+/-184.659  $\chi^2$ /NDF: 12.9/18

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 471.156+/-0.134  $\chi^2/\text{NDF}$ : 871832.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

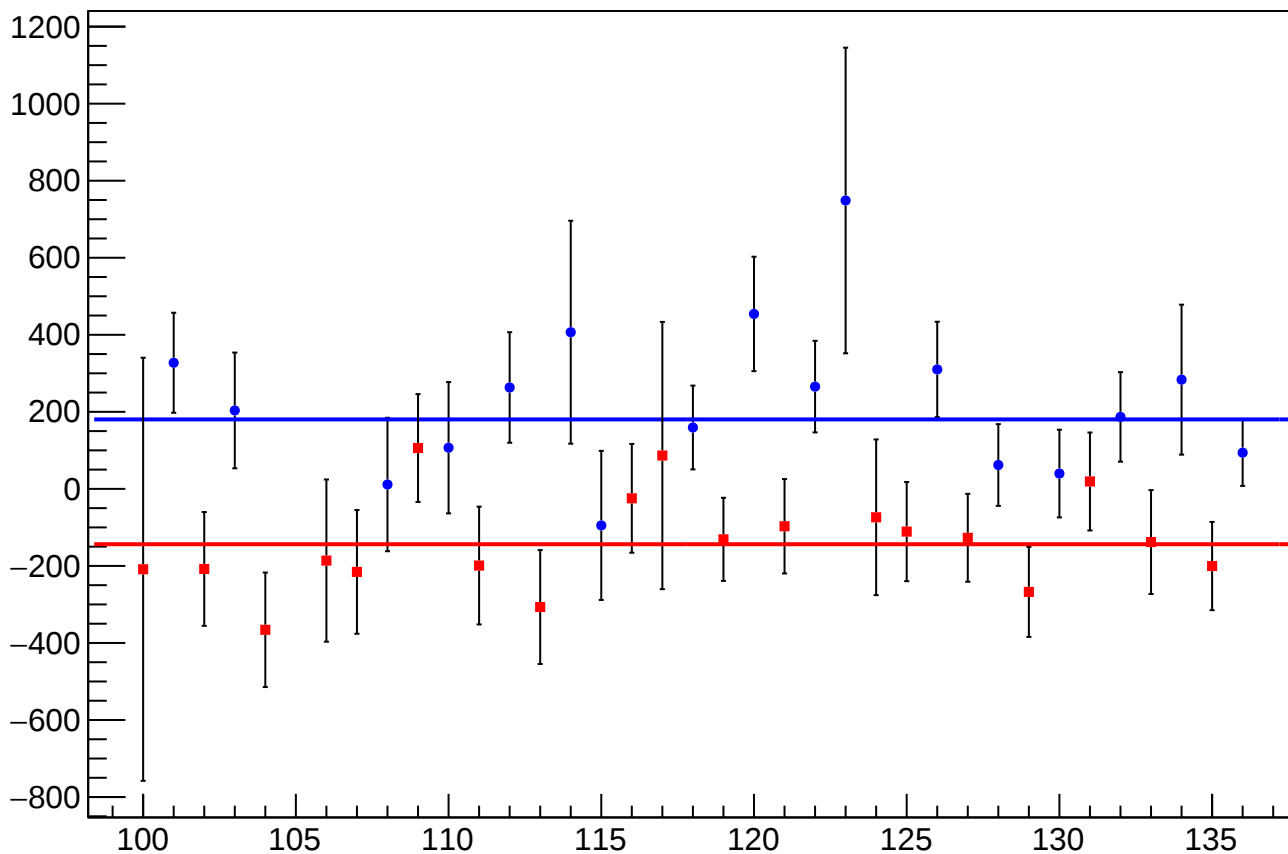
Right Out: 469.414+/-0.131  $\chi^2/\text{NDF}$ : 941618.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

471.156+/-0.134  $\chi^2/\text{NDF}$ : 871832.5/16

469.414+/-0.131  $\chi^2/\text{NDF}$ : 941618.2/18

# reg\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 180.326+/-32.769  $\chi^2/\text{NDF}$ : 16.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

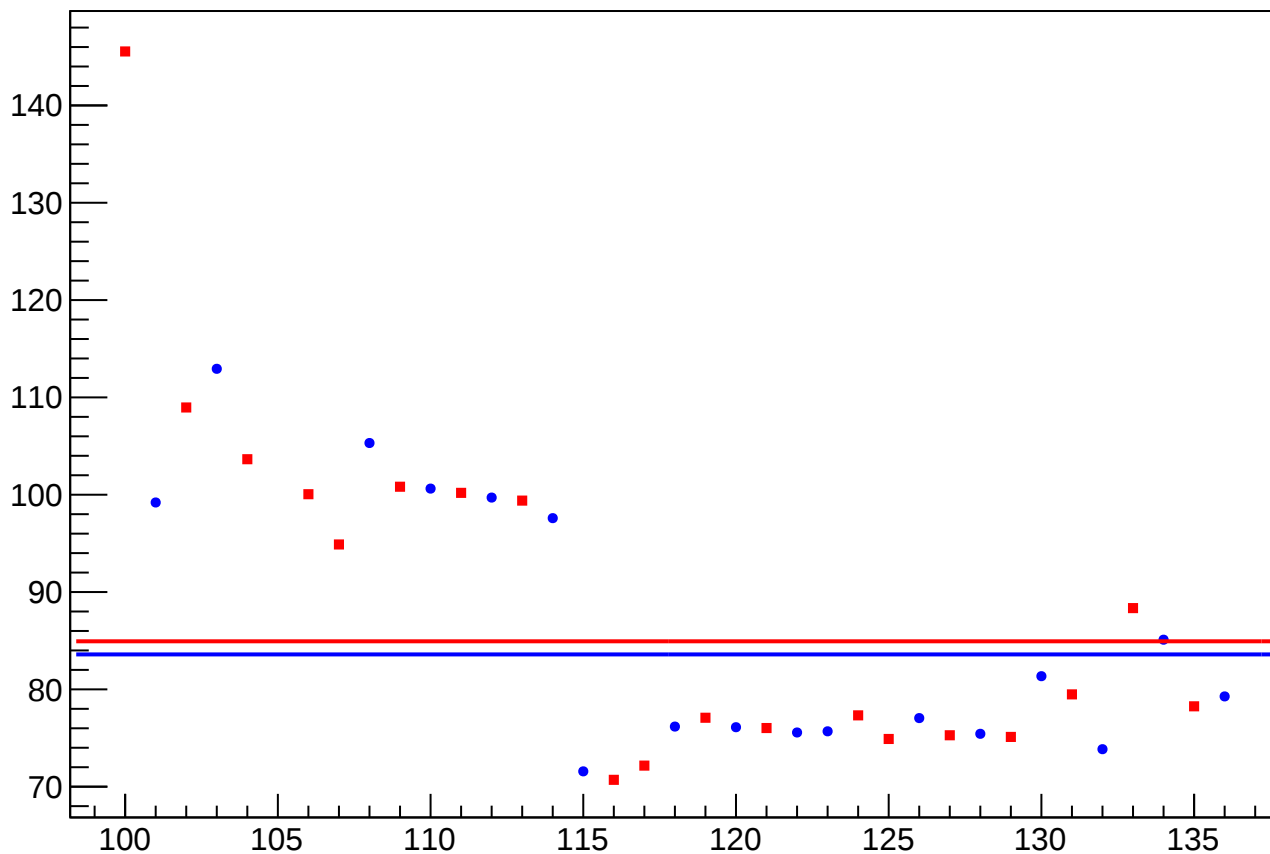
180.326+/-32.769  $\chi^2/\text{NDF}$ : 16.6/16

Right Out: -143.653+/-32.716  $\chi^2/\text{NDF}$ : 11.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-143.653+/-32.716  $\chi^2/\text{NDF}$ : 11.7/18

# reg\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 83.591+/-0.023  $\chi^2/\text{NDF}$ : 255921.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

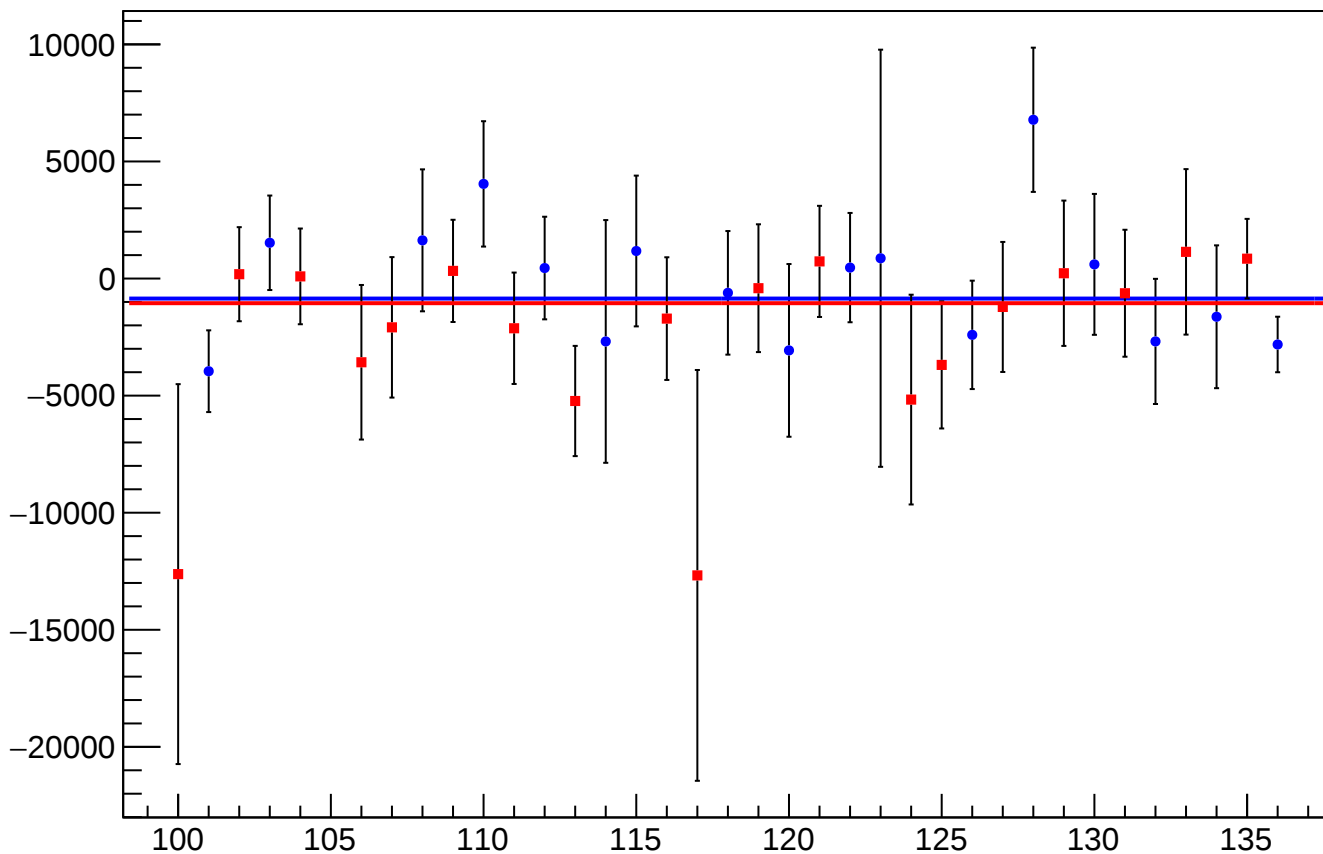
83.591+/-0.023  $\chi^2/\text{NDF}$ : 255921.7/16

Right Out: 84.938+/-0.023  $\chi^2/\text{NDF}$ : 291190.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

84.938+/-0.023  $\chi^2/\text{NDF}$ : 291190.0/18

# asym\_sam\_24\_68\_dd\_correction\_mean vs Slug



Right In: -855.308+/-583.290  $\chi^2/\text{NDF}$ : 20.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

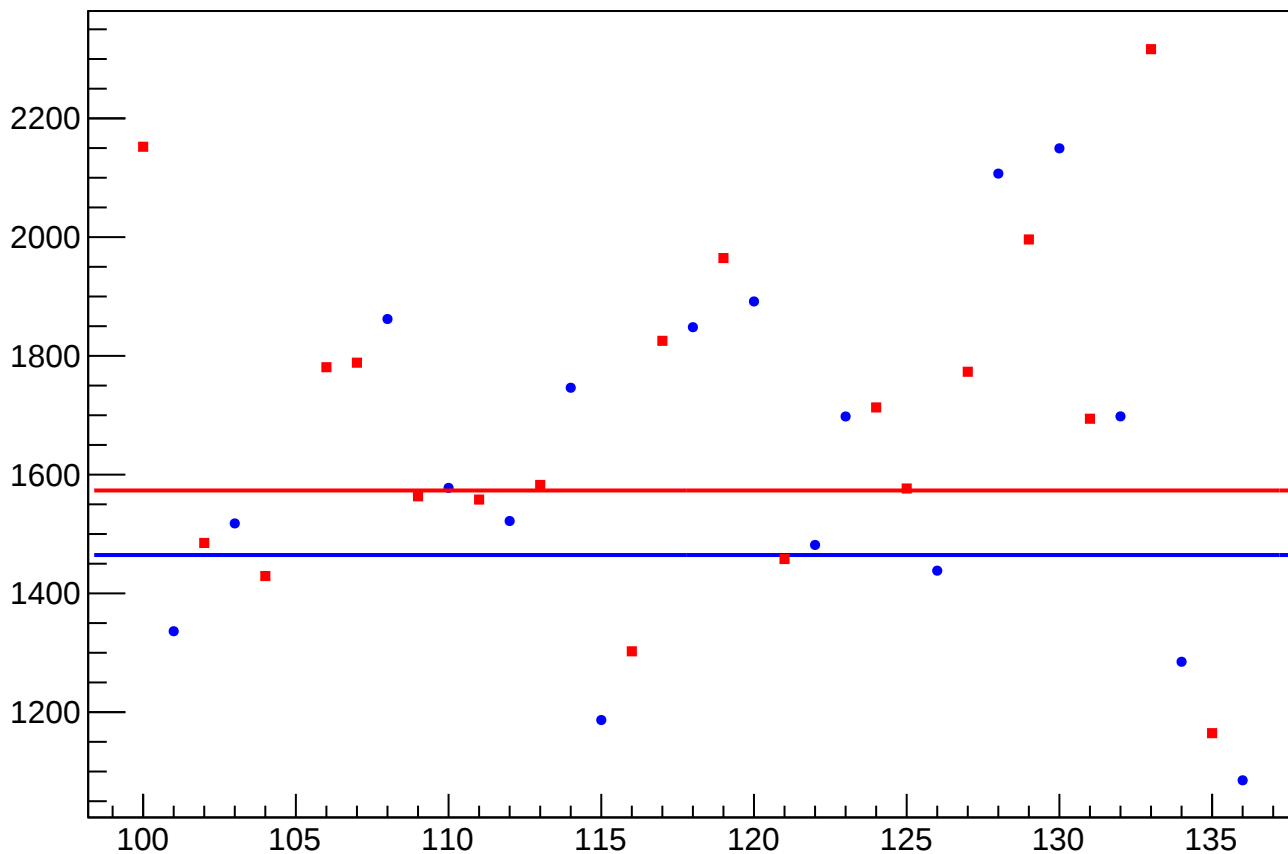
Right Out: -1052.298+/-605.845  $\chi^2/\text{NDF}$ : 13.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-855.308+/-583.290  $\chi^2/\text{NDF}$ : 20.3/16

-1052.298+/-605.845  $\chi^2/\text{NDF}$ : 13.2/18

# asym\_sam\_24\_68\_dd\_correction\_rms vs Slug



Right In: 1464.636 $\pm$ 0.412  $\chi^2$ /NDF: 560863.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

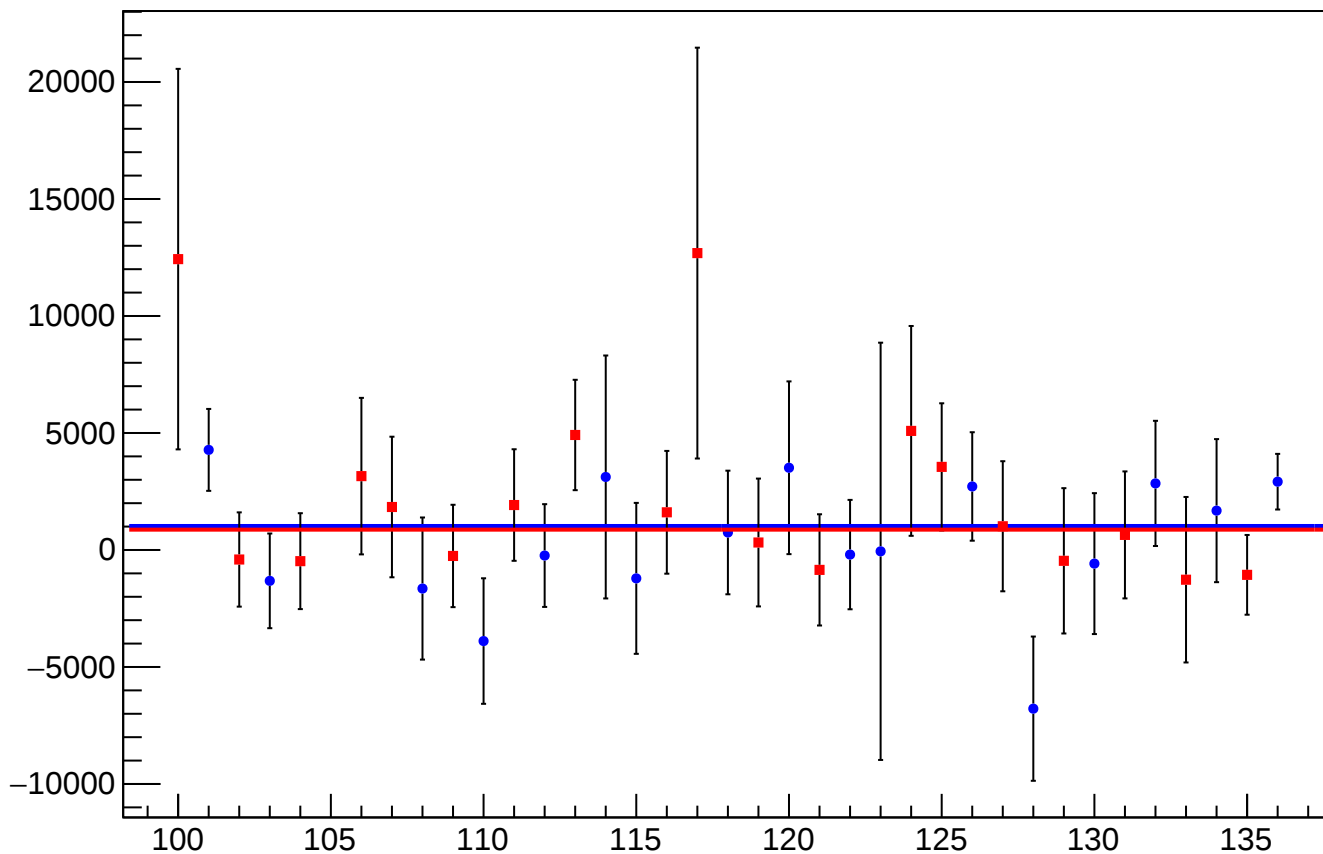
1464.636 $\pm$ 0.412  $\chi^2$ /NDF: 560863.4/16

Right Out: 1573.325 $\pm$ 0.428  $\chi^2$ /NDF: 368749.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

1573.325 $\pm$ 0.428  $\chi^2$ /NDF: 368749.3/18

# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 1025.527+/-584.500  $\chi^2/\text{NDF}$ : 20.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

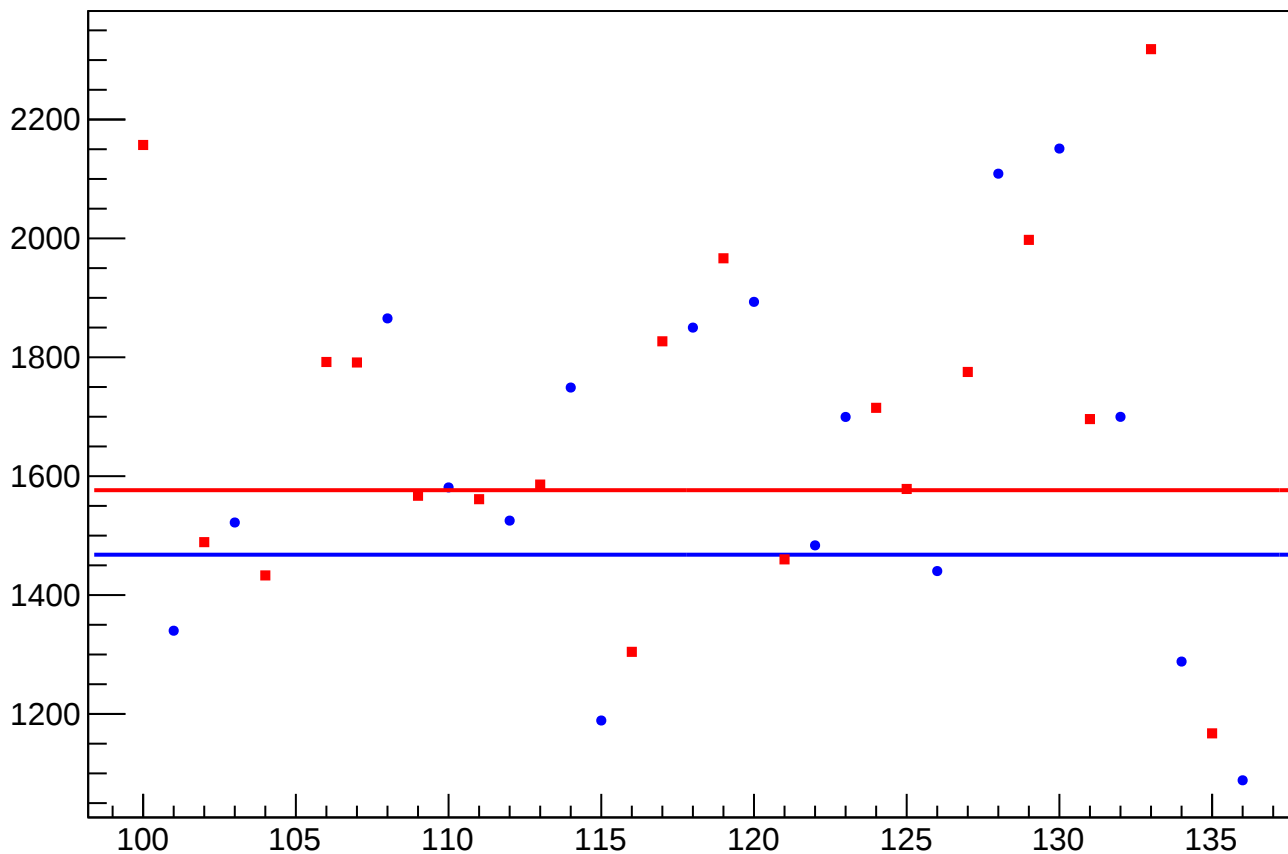
Right Out: 868.744+/-607.172  $\chi^2/\text{NDF}$ : 13.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1025.527+/-584.500  $\chi^2/\text{NDF}$ : 20.9/16

868.744+/-607.172  $\chi^2/\text{NDF}$ : 13.0/18

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 1467.905 $\pm$ 0.413  $\chi^2$ /NDF: 557458.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

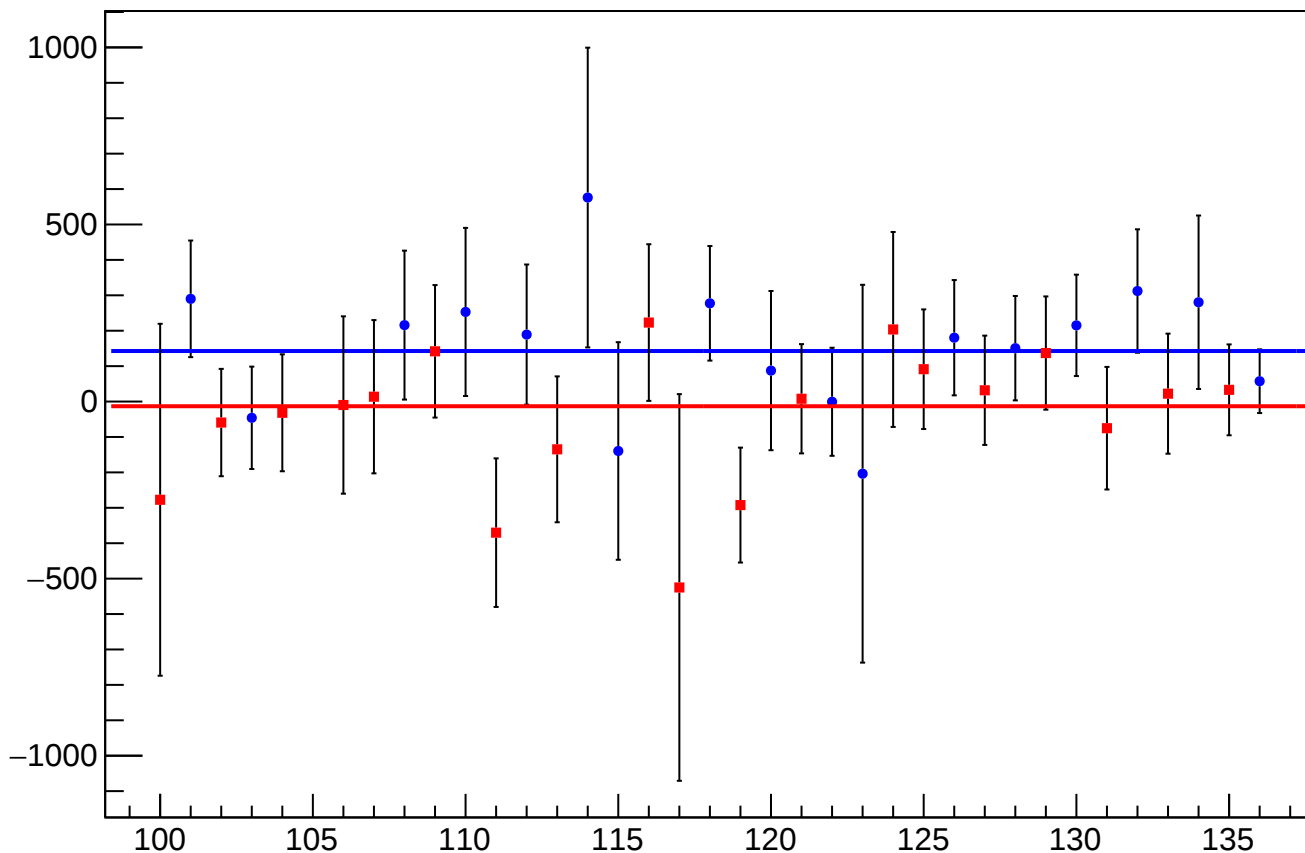
Right Out: 1576.417 $\pm$ 0.429  $\chi^2$ /NDF: 367264.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1467.905 $\pm$ 0.413  $\chi^2$ /NDF: 557458.9/16

1576.417 $\pm$ 0.429  $\chi^2$ /NDF: 367264.1/18

# reg\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 142.683+/-41.625  $\chi^2/\text{NDF}$ : 9.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

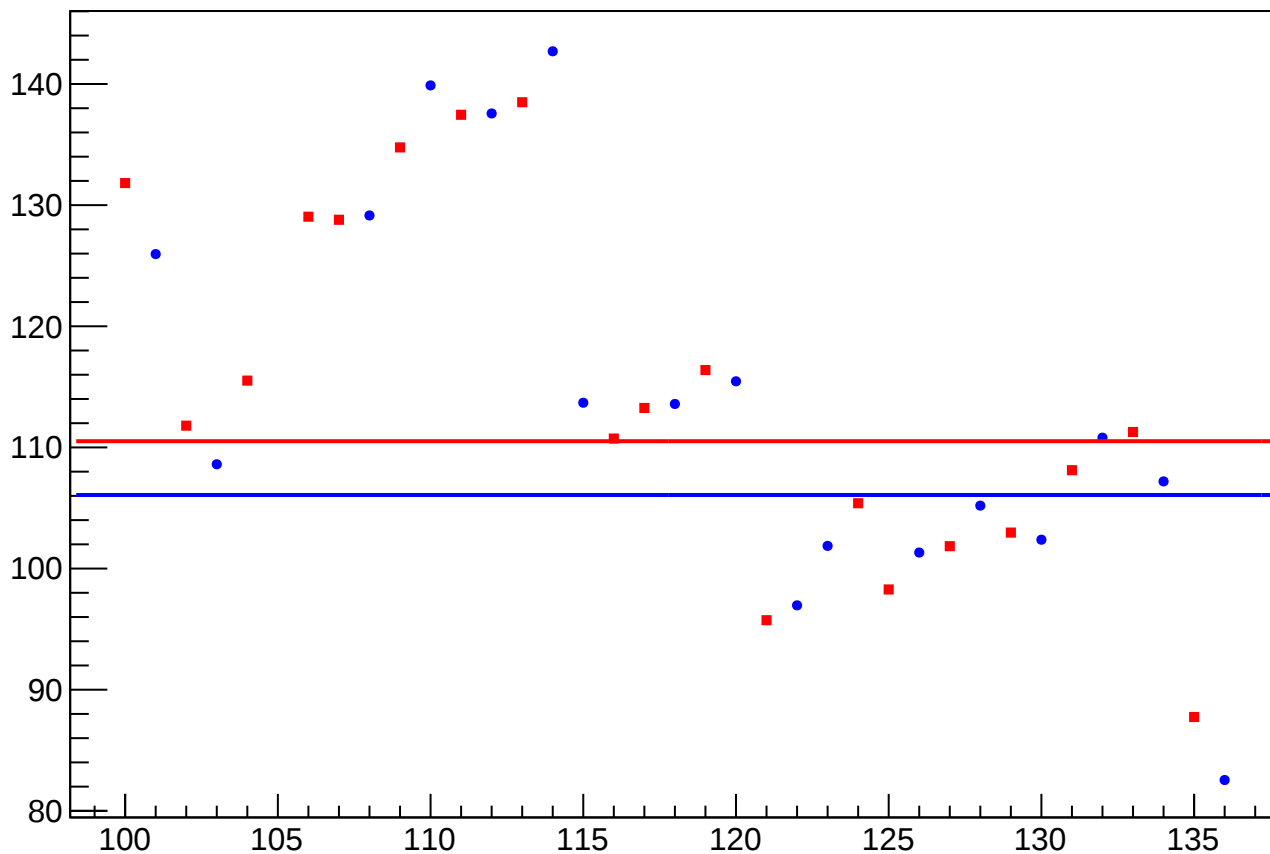
Right Out: -13.214+/-42.311  $\chi^2/\text{NDF}$ : 11.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

142.683+/-41.625  $\chi^2/\text{NDF}$ : 9.3/16

-13.214+/-42.311  $\chi^2/\text{NDF}$ : 11.6/18

# reg\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 106.074+/-0.029  $\chi^2/\text{NDF}$ : 317907.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

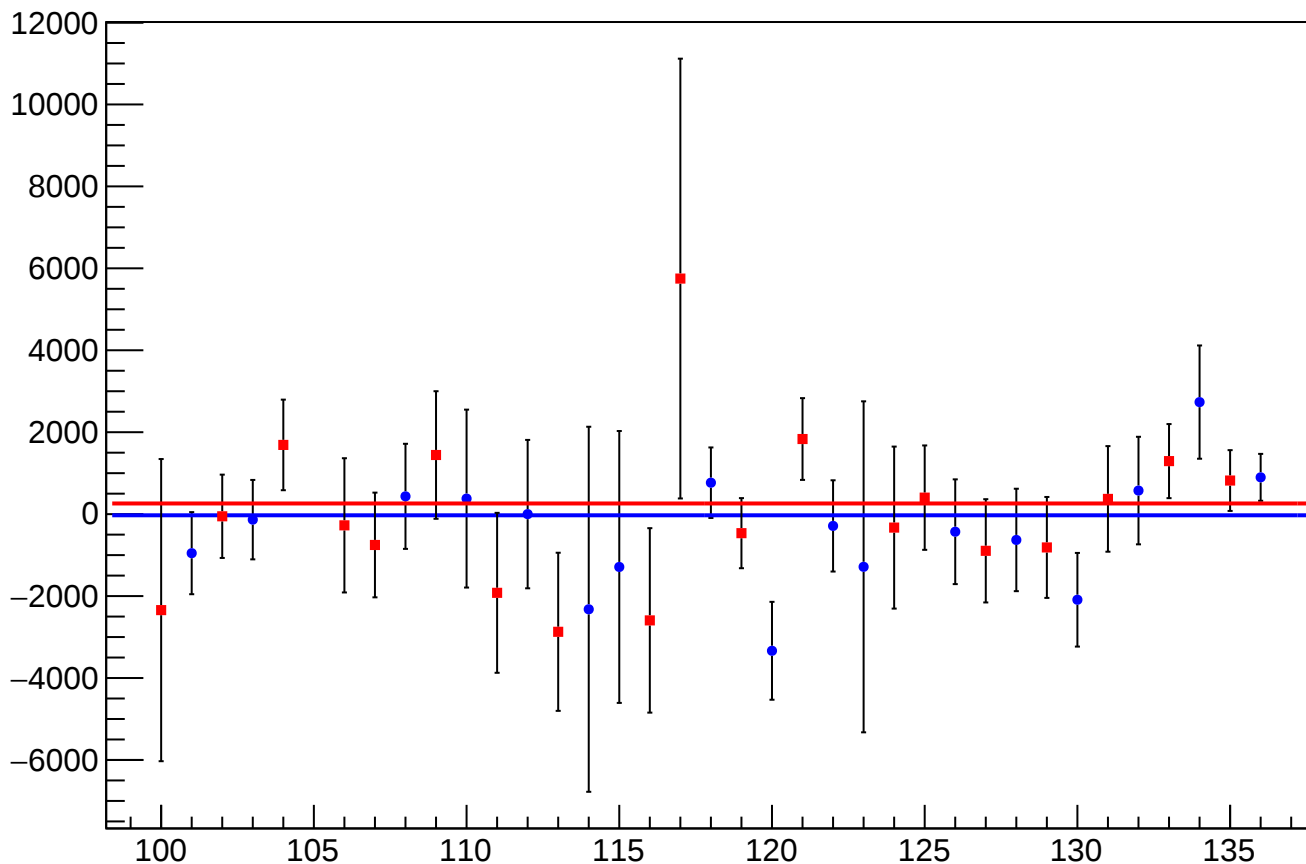
Right Out: 110.514+/-0.030  $\chi^2/\text{NDF}$ : 240799.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

106.074+/-0.029  $\chi^2/\text{NDF}$ : 317907.9/16

110.514+/-0.030  $\chi^2/\text{NDF}$ : 240799.3/18

# asym\_sam\_26\_48\_dd\_correction\_mean vs Slug



Right In: -27.969 $\pm$ 283.741  $\chi^2$ /NDF: 20.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

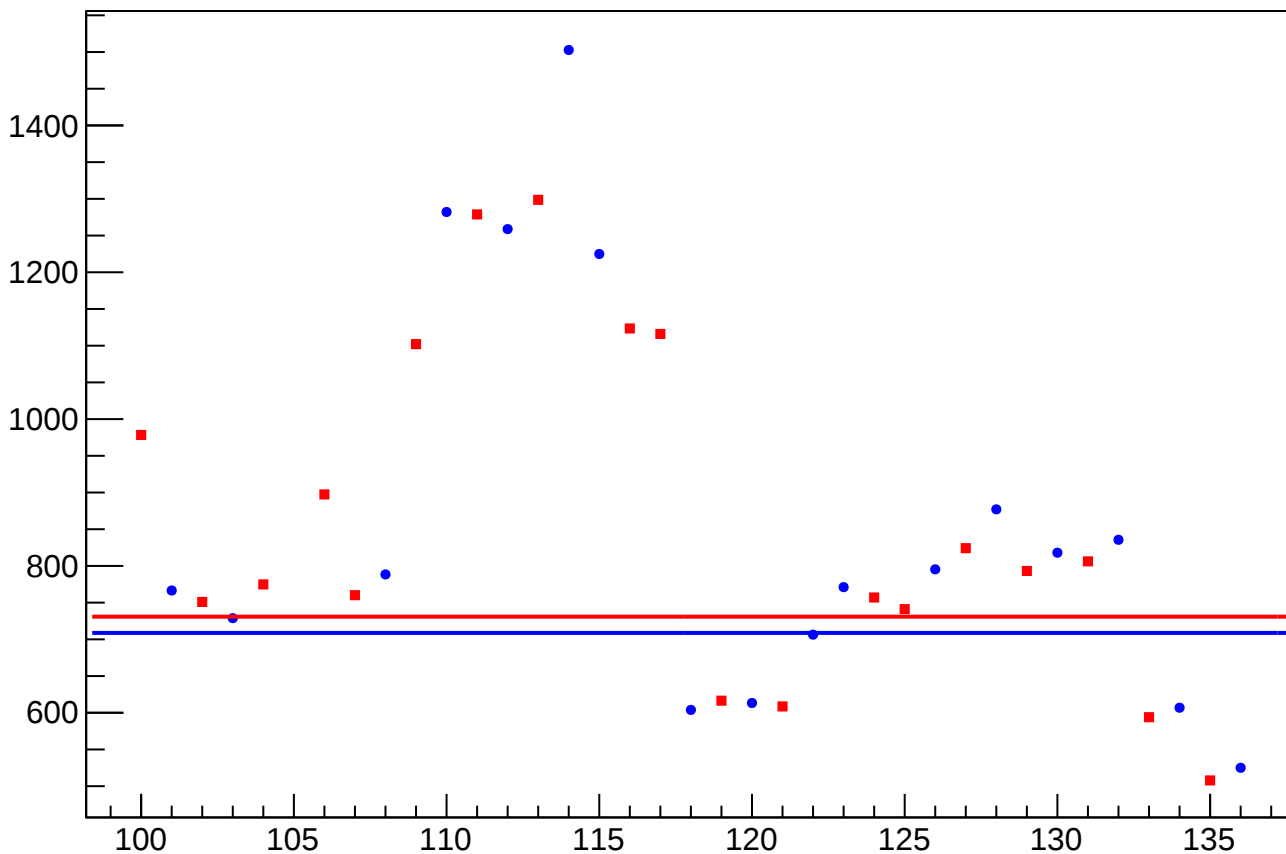
Right Out: 260.426 $\pm$ 286.375  $\chi^2$ /NDF: 16.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-27.969 $\pm$ 283.741  $\chi^2$ /NDF: 20.5/16

260.426 $\pm$ 286.375  $\chi^2$ /NDF: 16.9/18

# asym\_sam\_26\_48\_dd\_correction\_rms vs Slug



Right In: 708.784+/-0.201  $\chi^2/\text{NDF}$ : 793538.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

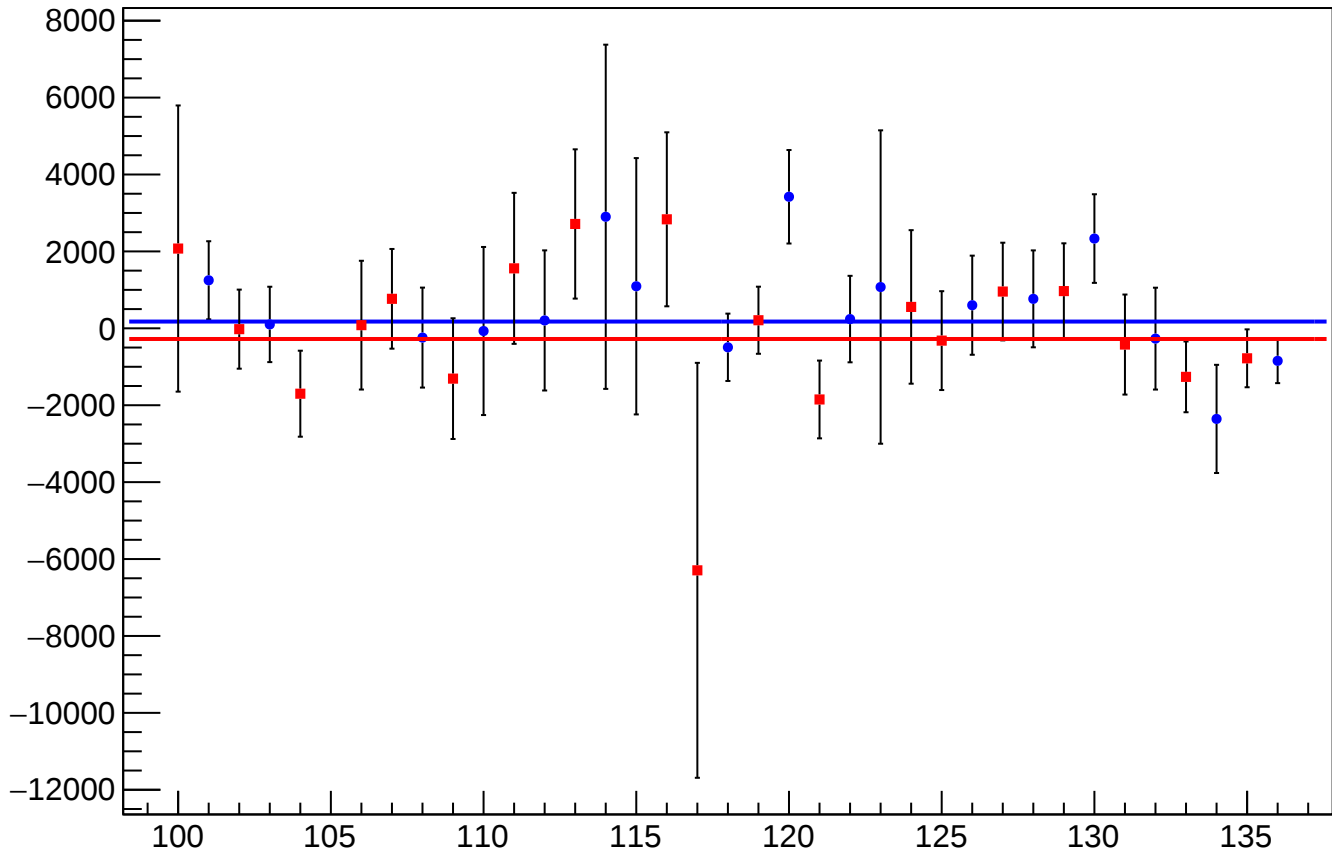
Right Out: 730.876+/-0.202  $\chi^2/\text{NDF}$ : 866096.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

708.784+/-0.201  $\chi^2/\text{NDF}$ : 793538.1/16

730.876+/-0.202  $\chi^2/\text{NDF}$ : 866096.3/18

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 175.854+/-287.218  $\chi^2/\text{NDF}$ : 19.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

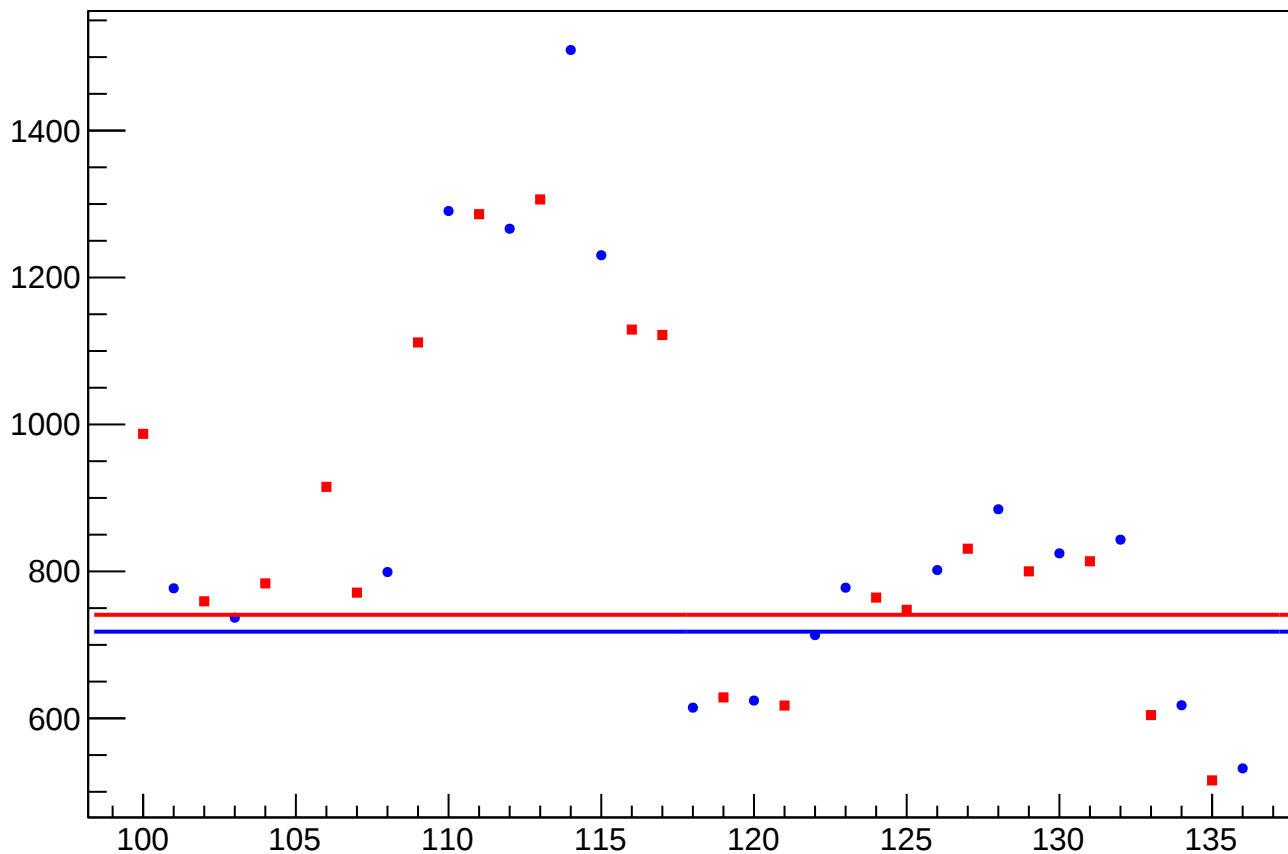
Right Out: -277.457+/-290.105  $\chi^2/\text{NDF}$ : 16.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

175.854+/-287.218  $\chi^2/\text{NDF}$ : 19.7/16

-277.457+/-290.105  $\chi^2/\text{NDF}$ : 16.1/18

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 717.973+/-0.203  $\chi^2/\text{NDF}$ : 778580.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

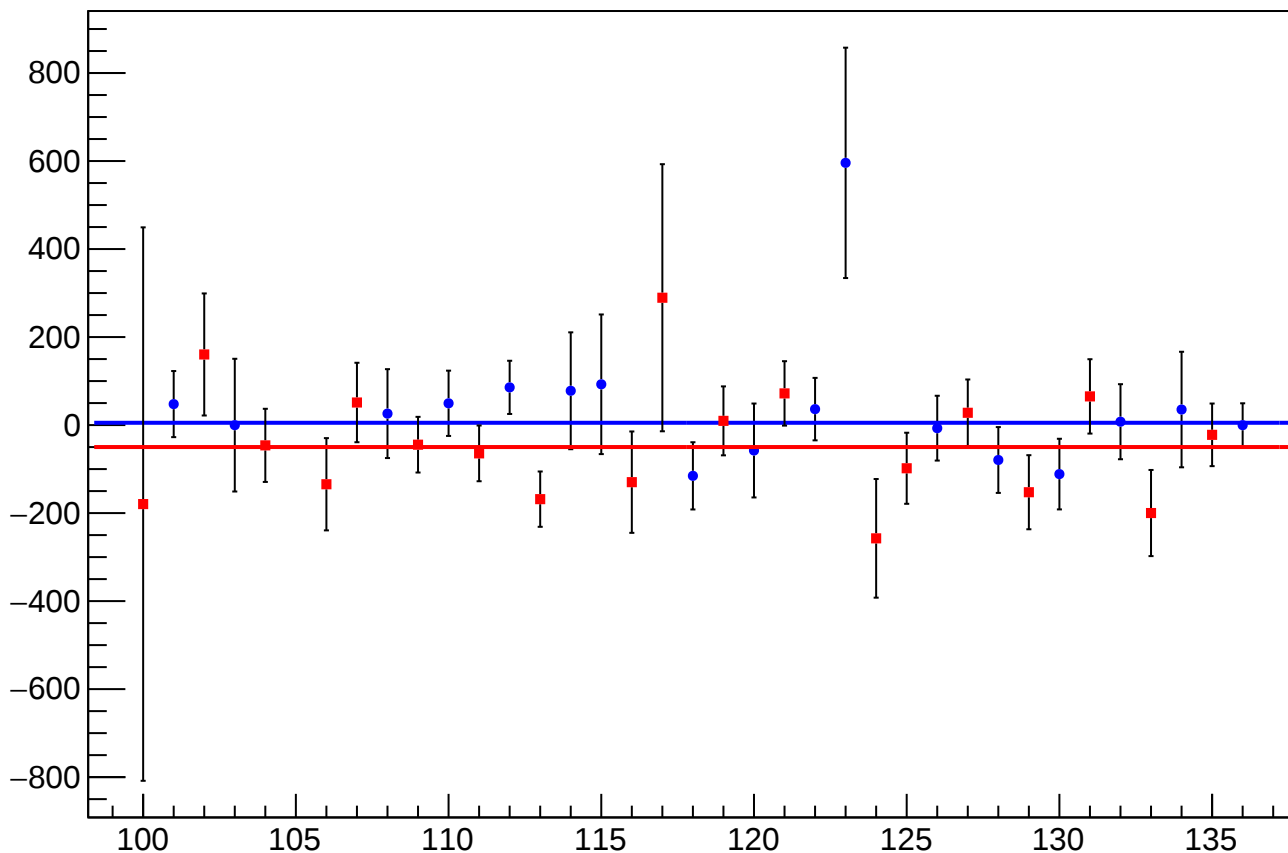
Right Out: 740.944+/-0.205  $\chi^2/\text{NDF}$ : 846897.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

717.973+/-0.203  $\chi^2/\text{NDF}$ : 778580.1/16

740.944+/-0.205  $\chi^2/\text{NDF}$ : 846897.9/18

# reg\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 5.220+/-20.150  $\chi^2$ /NDF: 14.7/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

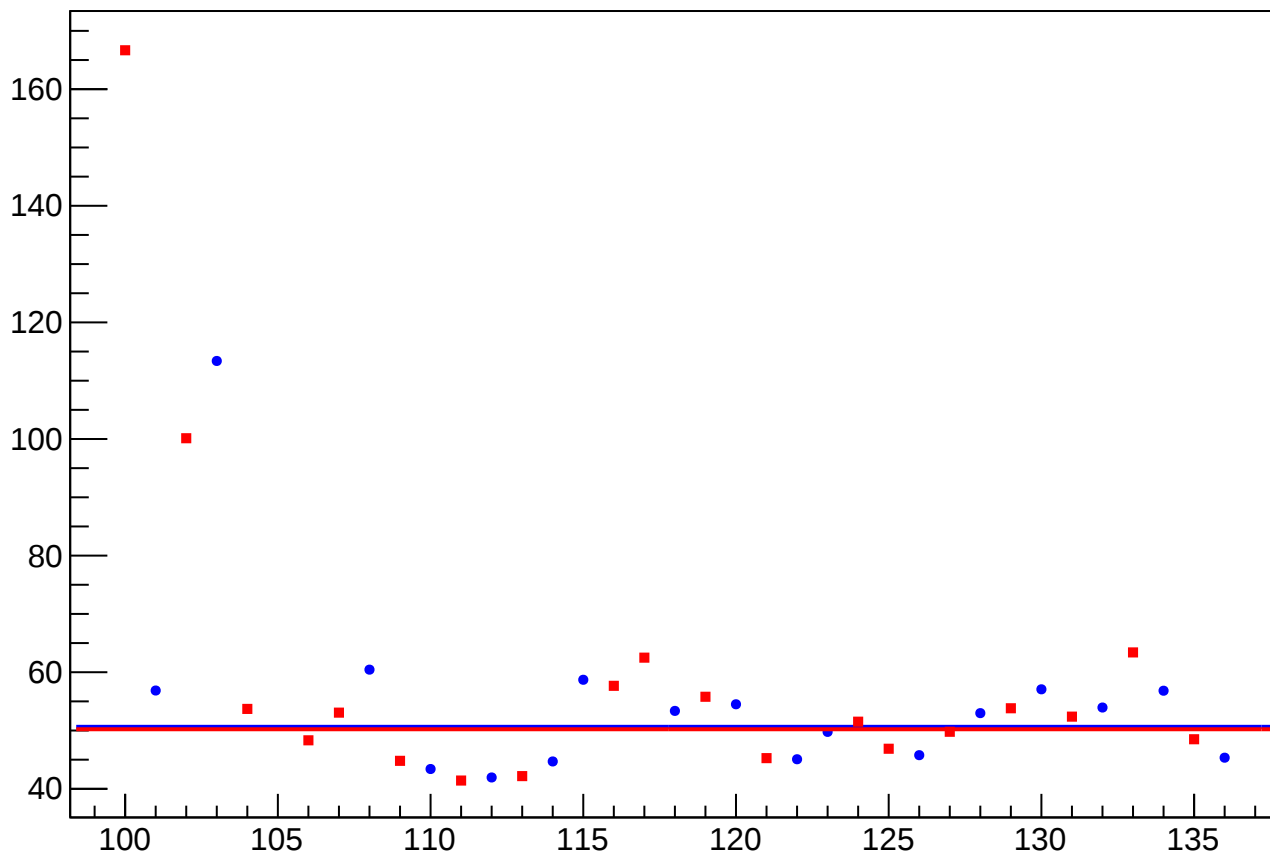
Right Out: -49.910+/-19.734  $\chi^2$ /NDF: 22.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

5.220+/-20.150  $\chi^2$ /NDF: 14.7/16

-49.910+/-19.734  $\chi^2$ /NDF: 22.6/18

# reg\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 50.635+/-0.014     $\chi^2/\text{NDF}$ : 519687.1/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

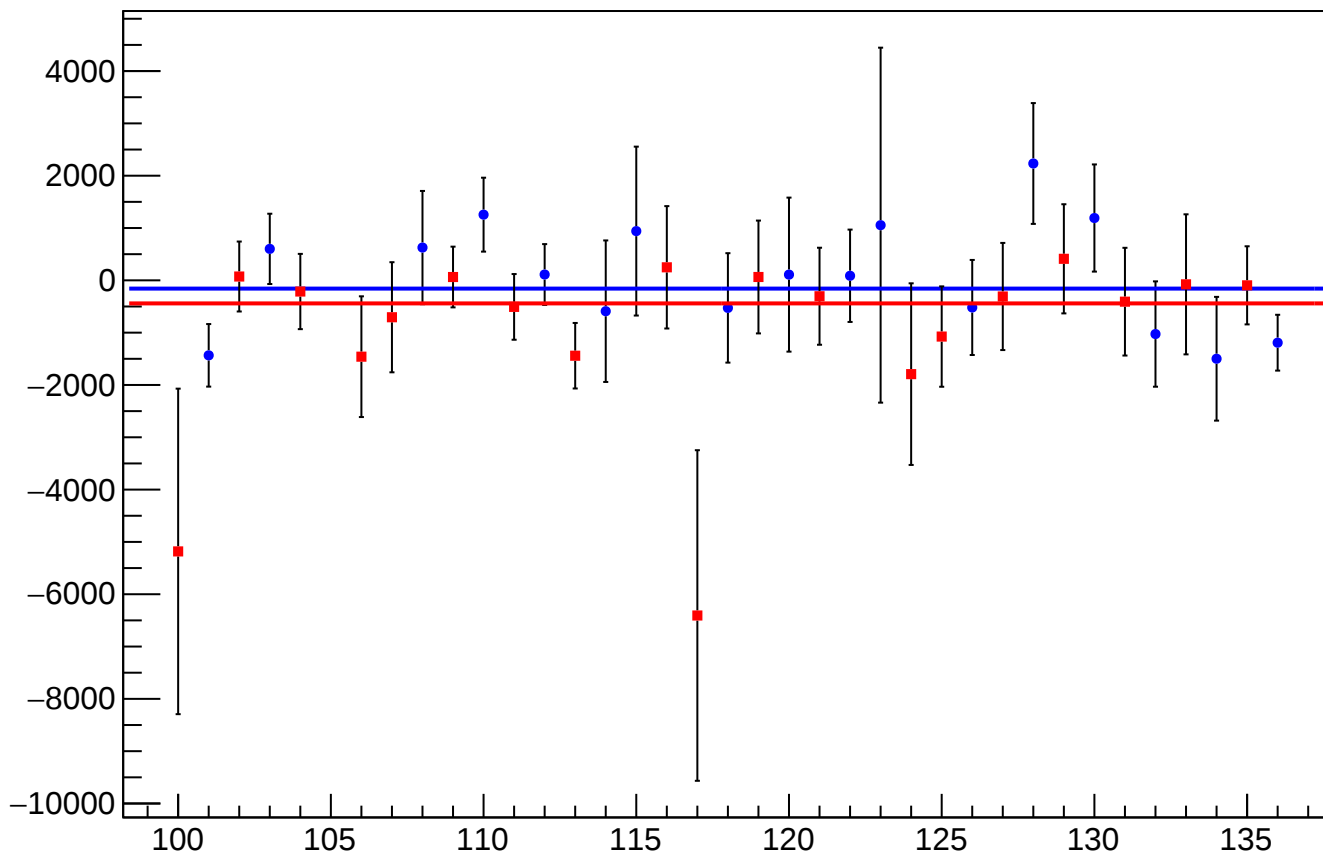
Right Out: 50.218+/-0.014     $\chi^2/\text{NDF}$ : 496813.4/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

50.635+/-0.014     $\chi^2/\text{NDF}$ : 519687.1/16

50.218+/-0.014     $\chi^2/\text{NDF}$ : 496813.4/18

# asym\_sam\_1357\_avg\_correction\_mean vs Slug



Right In: -158.001 $\pm$ 210.181  $\chi^2$ /NDF: 23.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

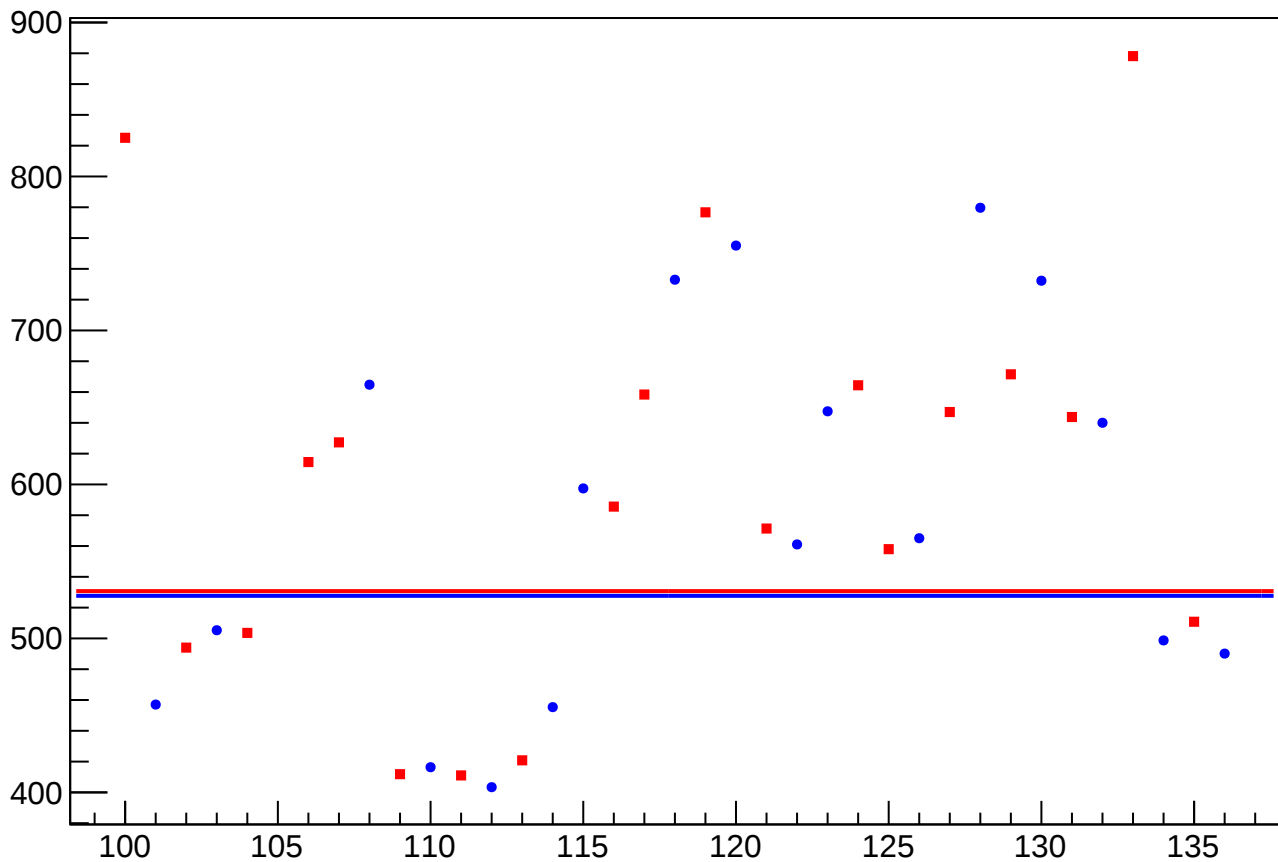
Right Out: -440.986 $\pm$ 206.615  $\chi^2$ /NDF: 13.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-158.001 $\pm$ 210.181  $\chi^2$ /NDF: 23.5/16

-440.986 $\pm$ 206.615  $\chi^2$ /NDF: 13.3/18

# asym\_sam\_1357\_avg\_correction\_rms vs Slug



Right In: 527.663+/-0.149  $\chi^2/\text{NDF}$ : 557423.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

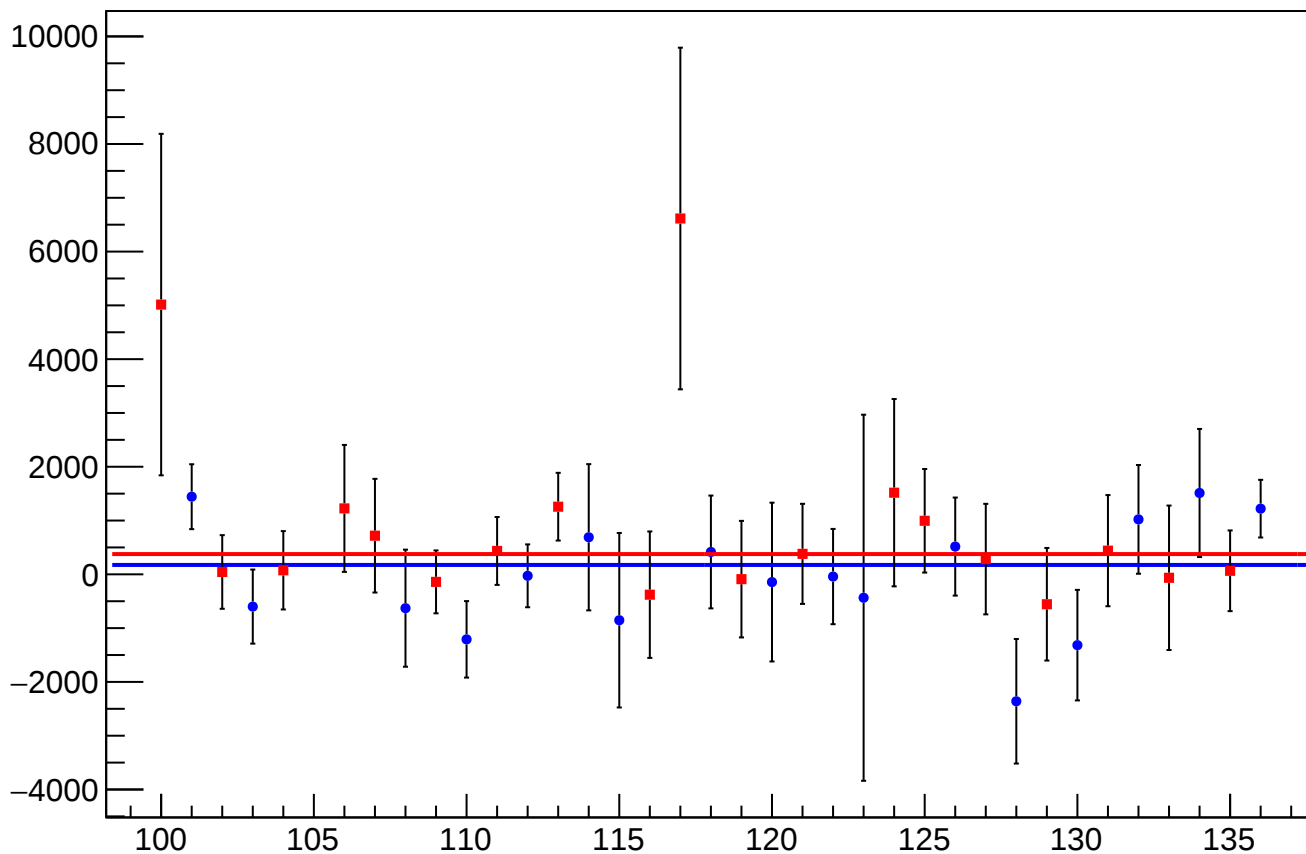
Right Out: 530.722+/-0.146  $\chi^2/\text{NDF}$ : 623983.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

527.663+/-0.149  $\chi^2/\text{NDF}$ : 557423.6/16

530.722+/-0.146  $\chi^2/\text{NDF}$ : 623983.7/18

# asym\_sam\_1357\_avg\_mean vs Slug



Right In: 174.605+/-211.662  $\chi^2/\text{NDF}$ : 23.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

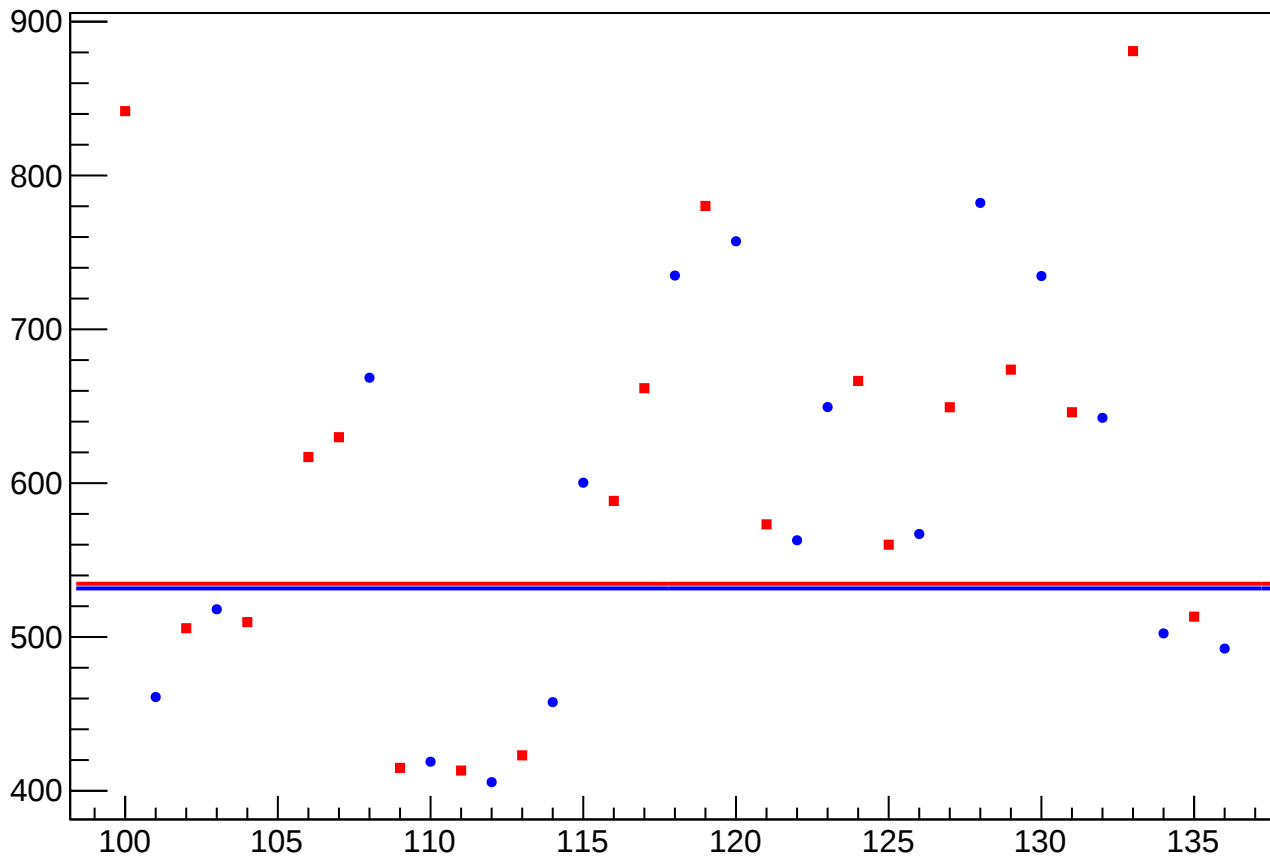
Right Out: 376.575+/-208.232  $\chi^2/\text{NDF}$ : 12.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

174.605+/-211.662  $\chi^2/\text{NDF}$ : 23.7/16

376.575+/-208.232  $\chi^2/\text{NDF}$ : 12.3/18

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 531.554+/-0.150  $\chi^2/\text{NDF}$ : 550087.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

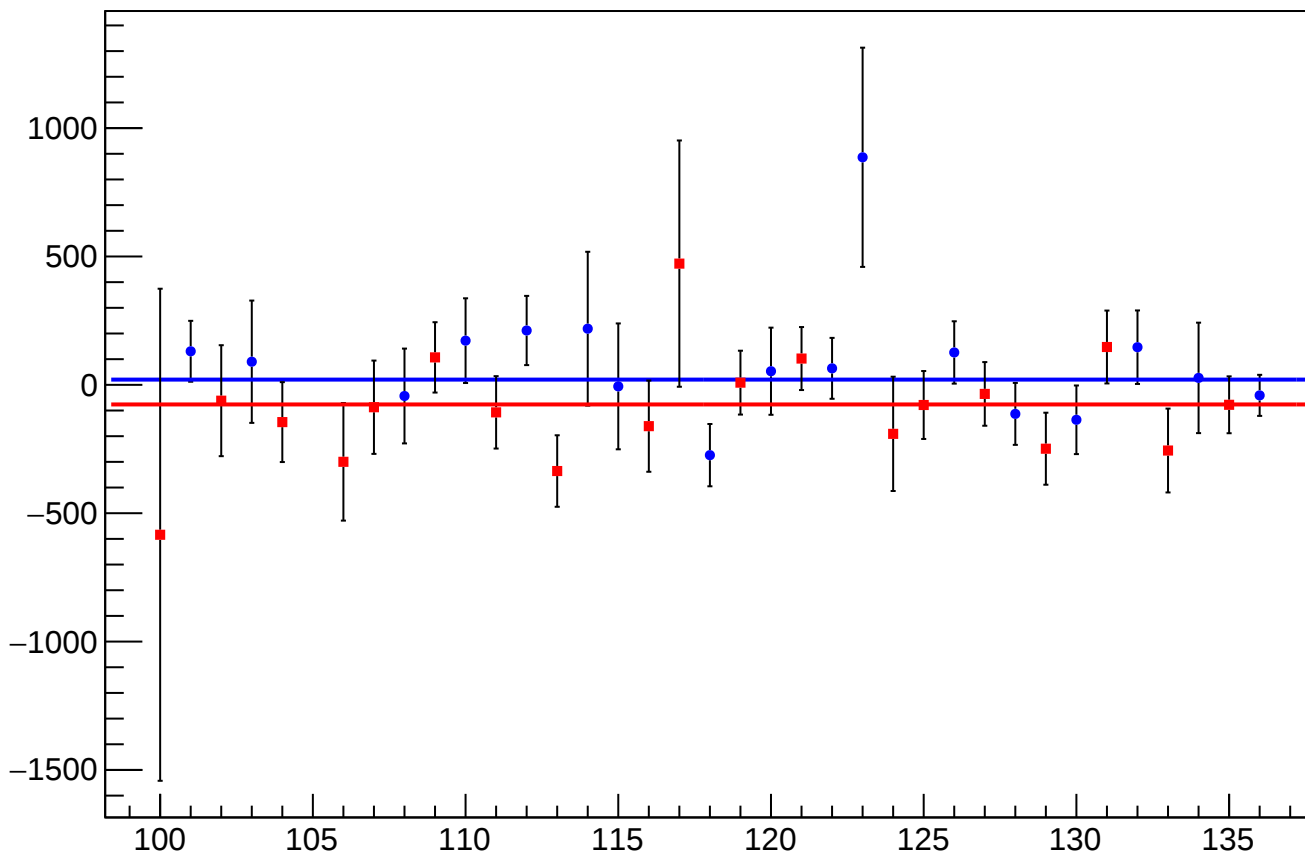
Right Out: 534.609+/-0.147  $\chi^2/\text{NDF}$ : 616082.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

531.554+/-0.150  $\chi^2/\text{NDF}$ : 550087.6/16

534.609+/-0.147  $\chi^2/\text{NDF}$ : 616082.8/18

# reg\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 20.441+/-34.583  $\chi^2/\text{NDF}$ : 19.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

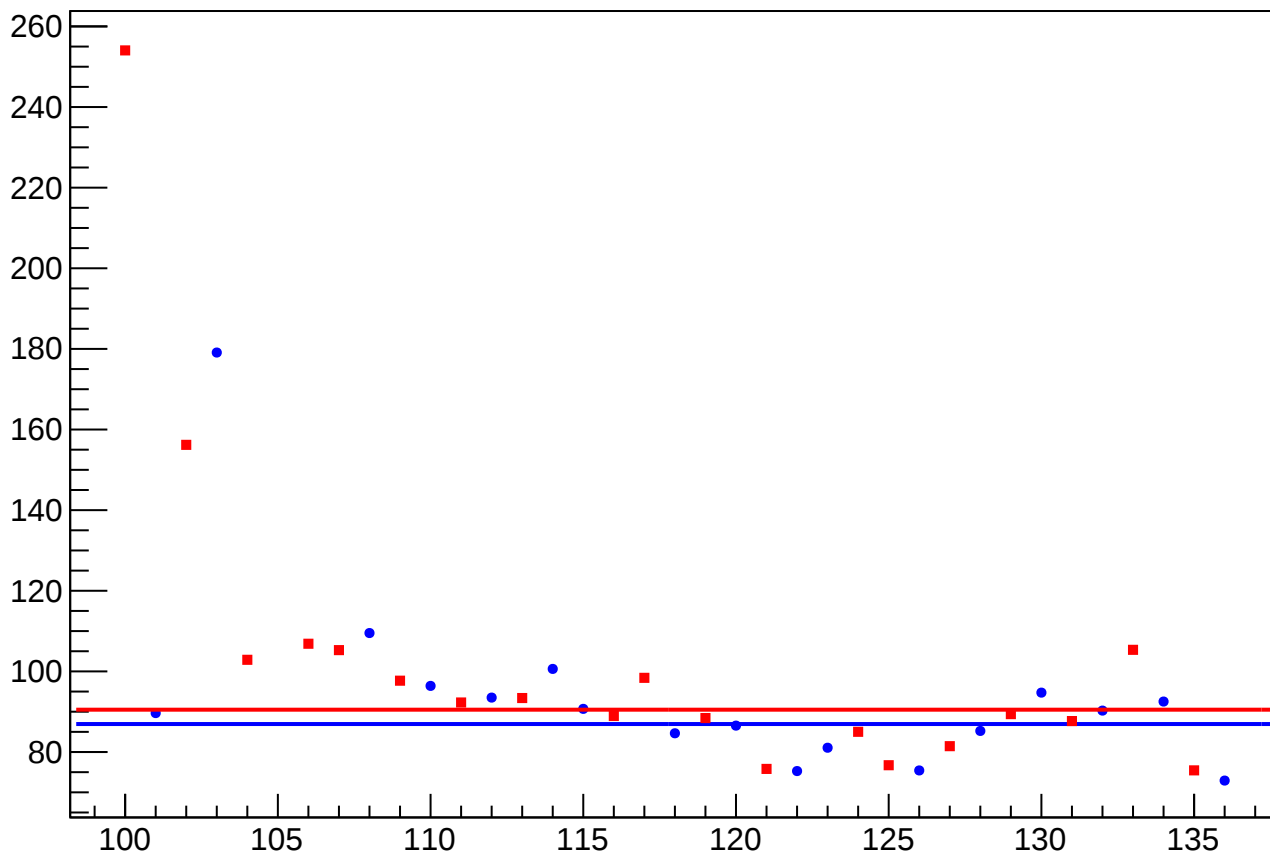
Right Out: -76.339+/-35.418  $\chi^2/\text{NDF}$ : 16.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

20.441+/-34.583  $\chi^2/\text{NDF}$ : 19.3/16

-76.339+/-35.418  $\chi^2/\text{NDF}$ : 16.4/18

# reg\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 86.943+/-0.024  $\chi^2/\text{NDF}$ : 455809.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

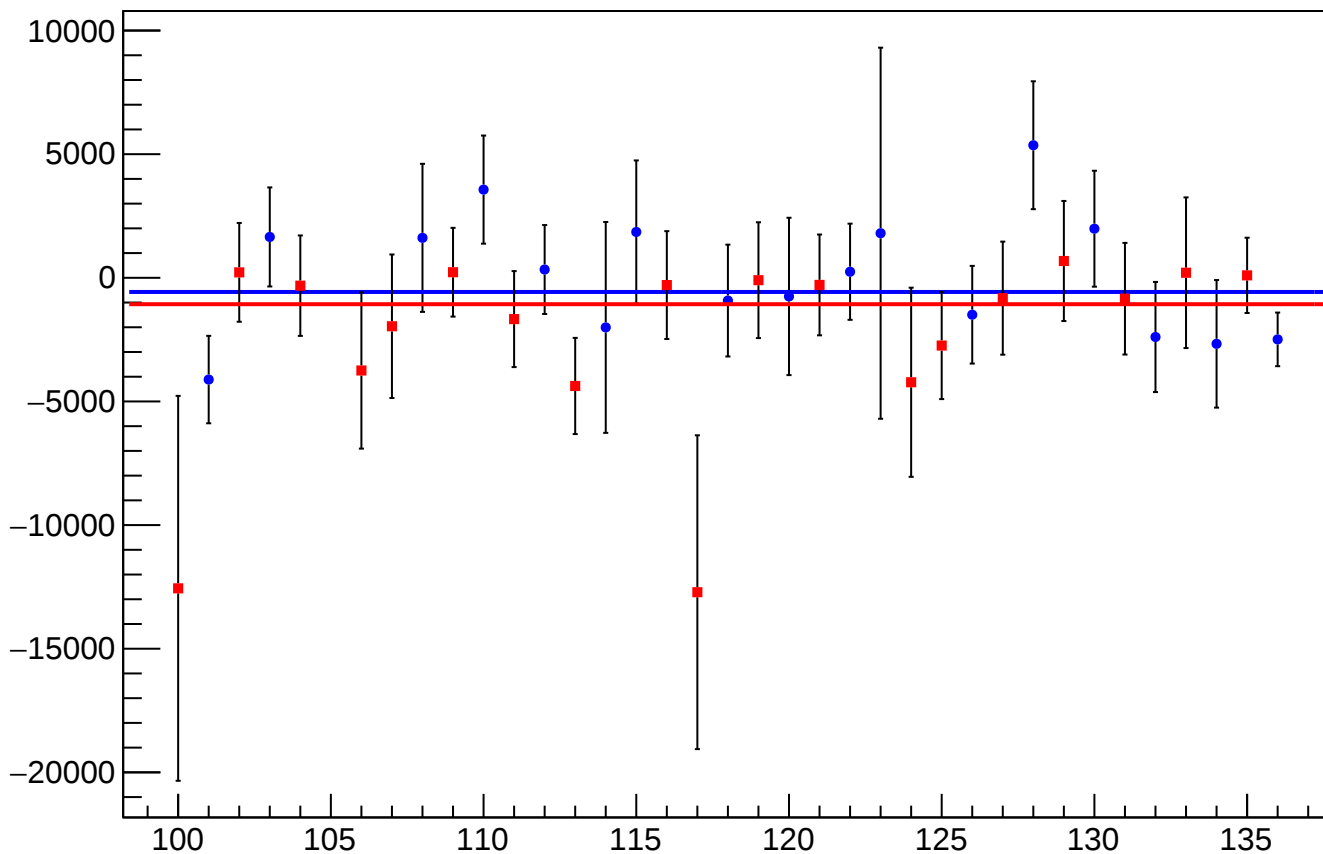
Right Out: 90.501+/-0.025  $\chi^2/\text{NDF}$ : 403720.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

86.943+/-0.024  $\chi^2/\text{NDF}$ : 455809.4/16

90.501+/-0.025  $\chi^2/\text{NDF}$ : 403720.0/18

# asym\_sam\_2468\_avg\_correction\_mean vs Slug



Right In: -572.342+/-517.020  $\chi^2$ /NDF: 21.9/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

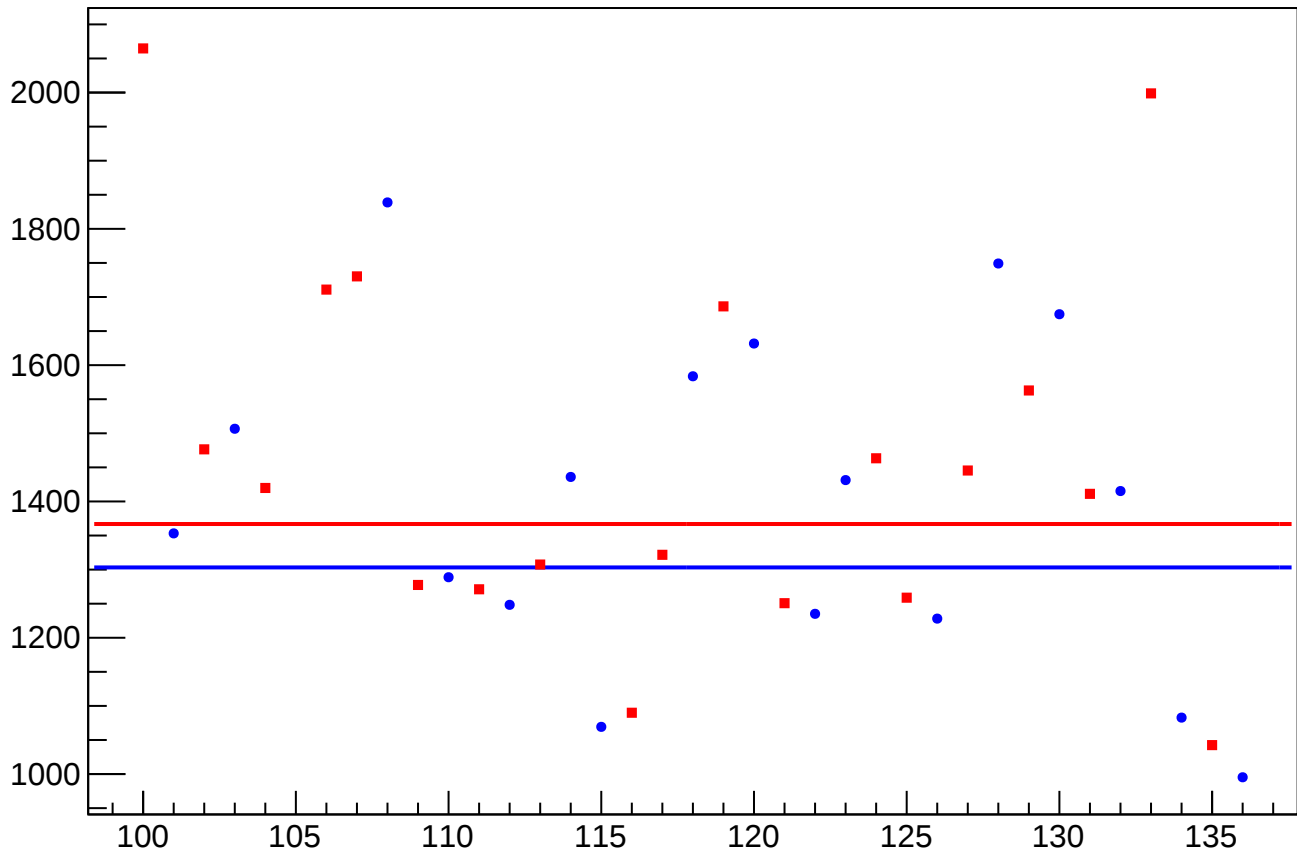
Right Out: -1067.033+/-526.701  $\chi^2$ /NDF: 13.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-572.342+/-517.020  $\chi^2$ /NDF: 21.9/16

-1067.033+/-526.701  $\chi^2$ /NDF: 13.4/18

# asym\_sam\_2468\_avg\_correction\_rms vs Slug



Right In: 1303.201+/-0.366  $\chi^2/\text{NDF}$ : 451961.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

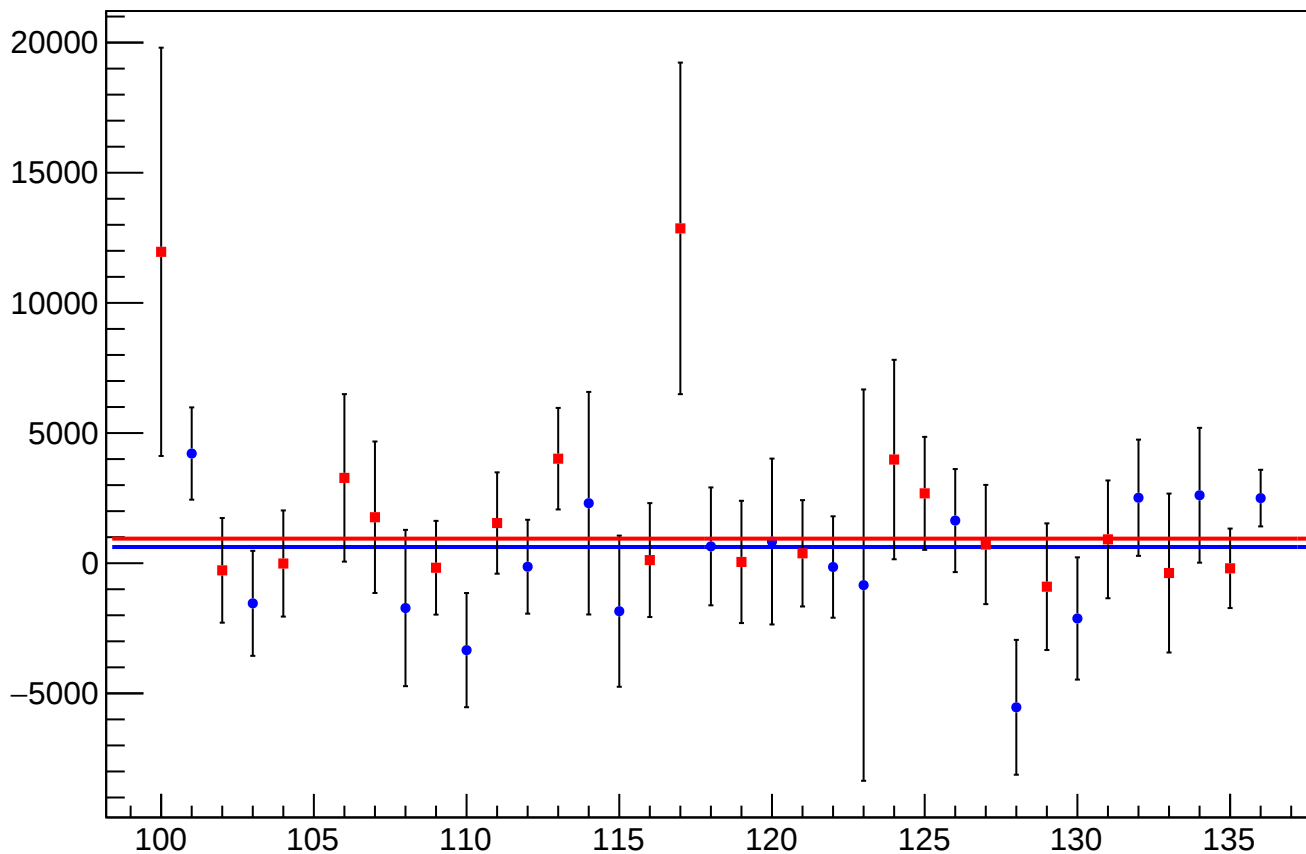
1303.201+/-0.366  $\chi^2/\text{NDF}$ : 451961.9/16

Right Out: 1366.905+/-0.372  $\chi^2/\text{NDF}$ : 365488.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1366.905+/-0.372  $\chi^2/\text{NDF}$ : 365488.5/18

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: 622.411+/-518.496  $\chi^2/\text{NDF}$ : 22.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

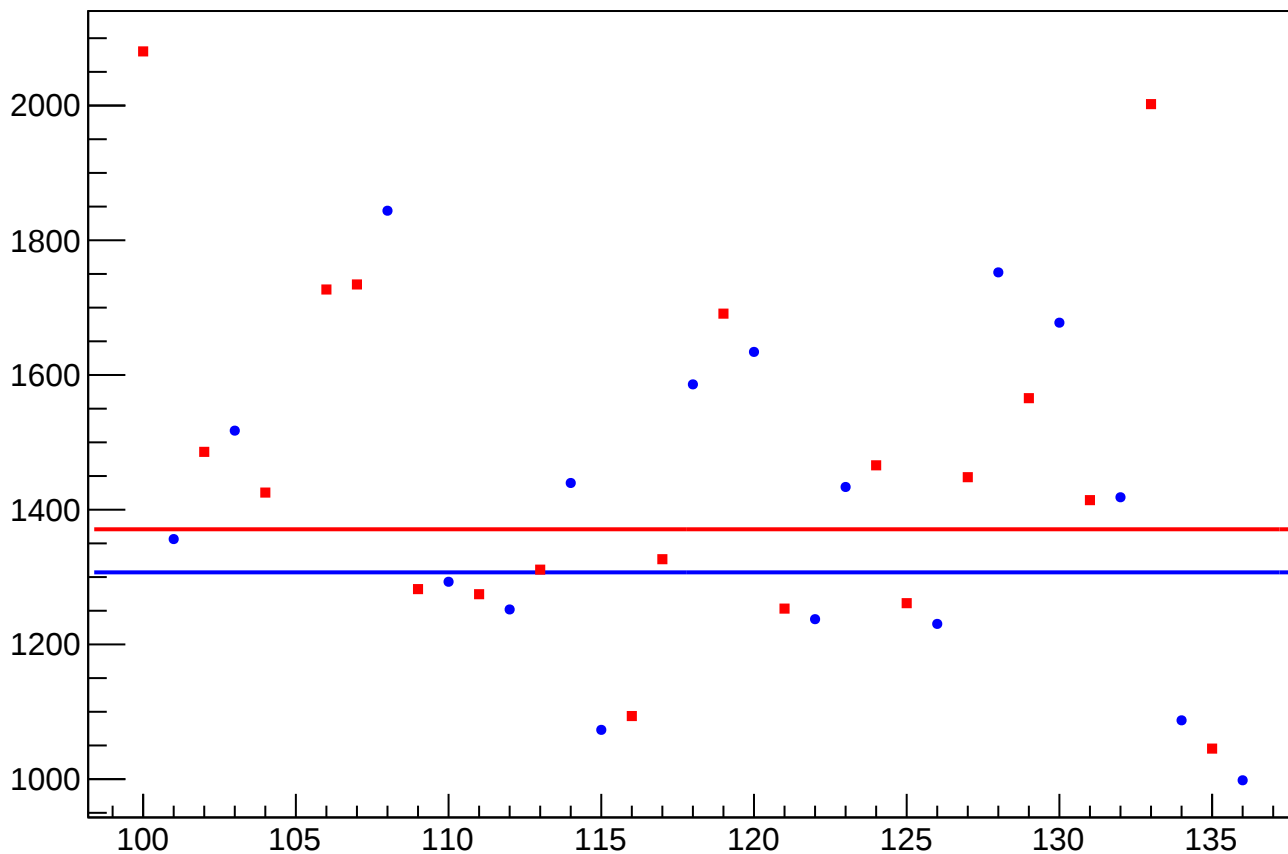
Right Out: 944.364+/-528.466  $\chi^2/\text{NDF}$ : 12.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

622.411+/-518.496  $\chi^2/\text{NDF}$ : 22.0/16

944.364+/-528.466  $\chi^2/\text{NDF}$ : 12.6/18

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 1306.980 $\pm$ 0.367  $\chi^2$ /NDF: 451191.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

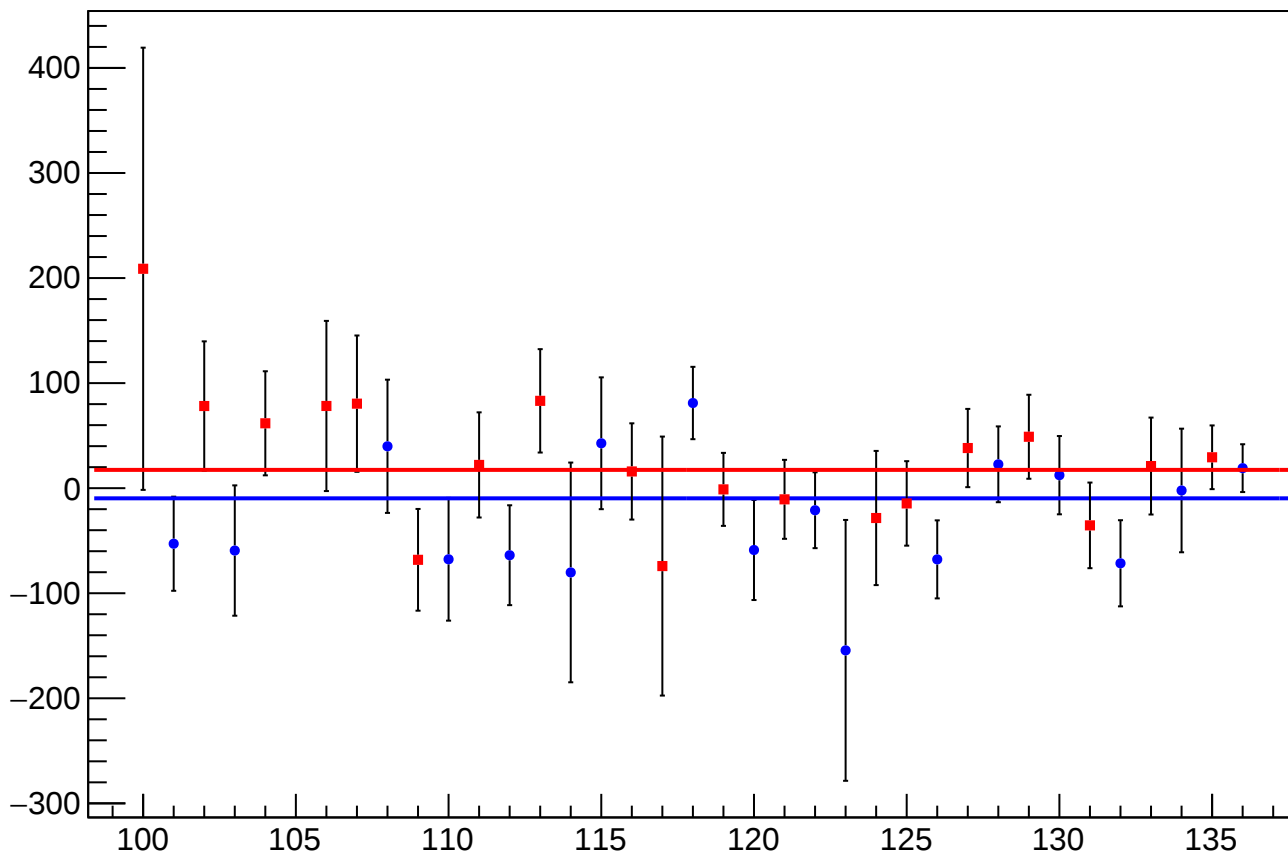
Right Out: 1370.934 $\pm$ 0.374  $\chi^2$ /NDF: 366388.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1306.980 $\pm$ 0.367  $\chi^2$ /NDF: 451191.7/16

1370.934 $\pm$ 0.374  $\chi^2$ /NDF: 366388.9/18

# reg\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -9.669+/-10.408  $\chi^2/\text{NDF}$ : 22.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

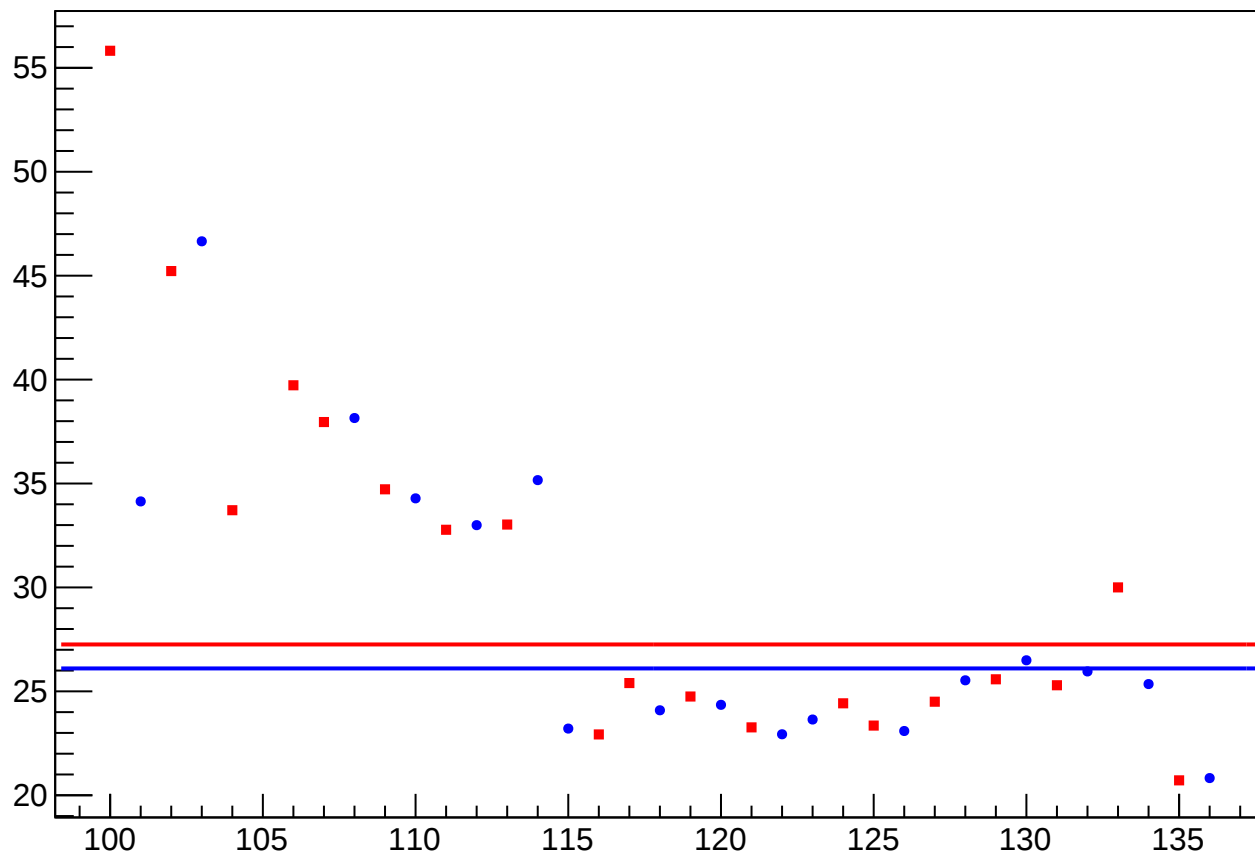
Right Out: 17.404+/-10.677  $\chi^2/\text{NDF}$ : 14.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-9.669+/-10.408  $\chi^2/\text{NDF}$ : 22.6/16

17.404+/-10.677  $\chi^2/\text{NDF}$ : 14.3/18

# reg\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 26.103+/-0.007  $\chi^2/\text{NDF}$ : 604038.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

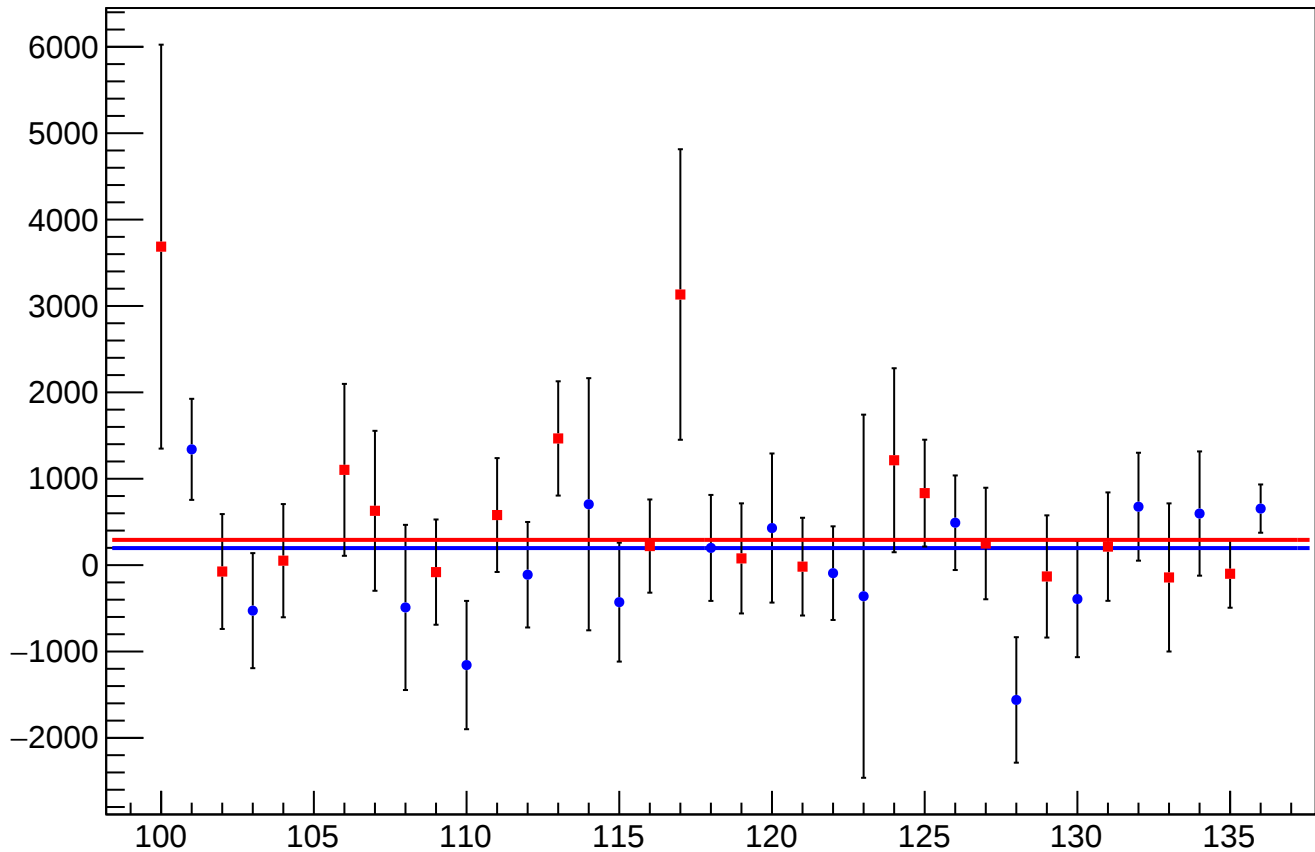
Right Out: 27.256+/-0.008  $\chi^2/\text{NDF}$ : 635585.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

26.103+/-0.007  $\chi^2/\text{NDF}$ : 604038.5/16

27.256+/-0.008  $\chi^2/\text{NDF}$ : 635585.4/18

# asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug



Right In: 197.327+/-147.883  $\chi^2/\text{NDF}$ : 21.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

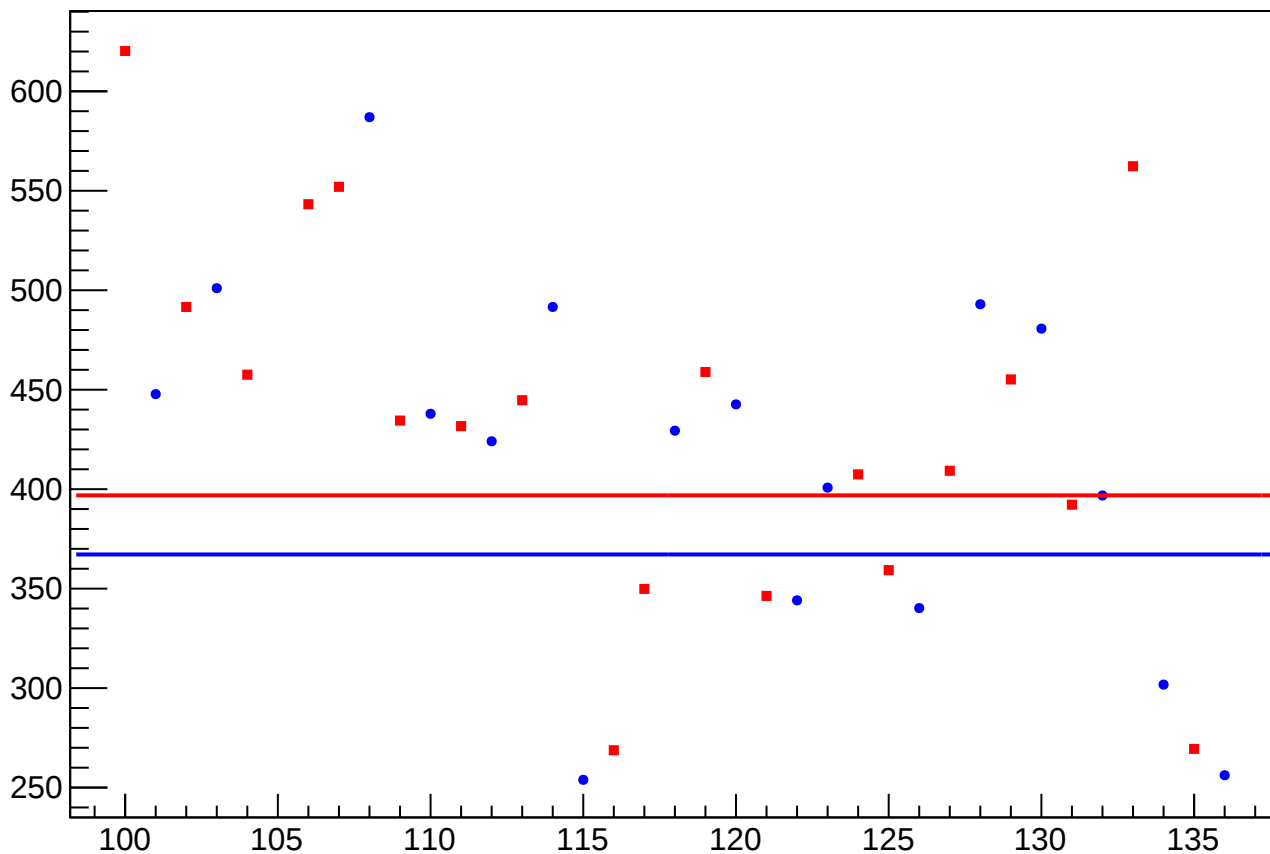
197.327+/-147.883  $\chi^2/\text{NDF}$ : 21.0/16

Right Out: 292.374+/-154.552  $\chi^2/\text{NDF}$ : 13.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

292.374+/-154.552  $\chi^2/\text{NDF}$ : 13.5/18

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug



Right In: 367.180 $\pm$ 0.105  $\chi^2$ /NDF: 827148.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

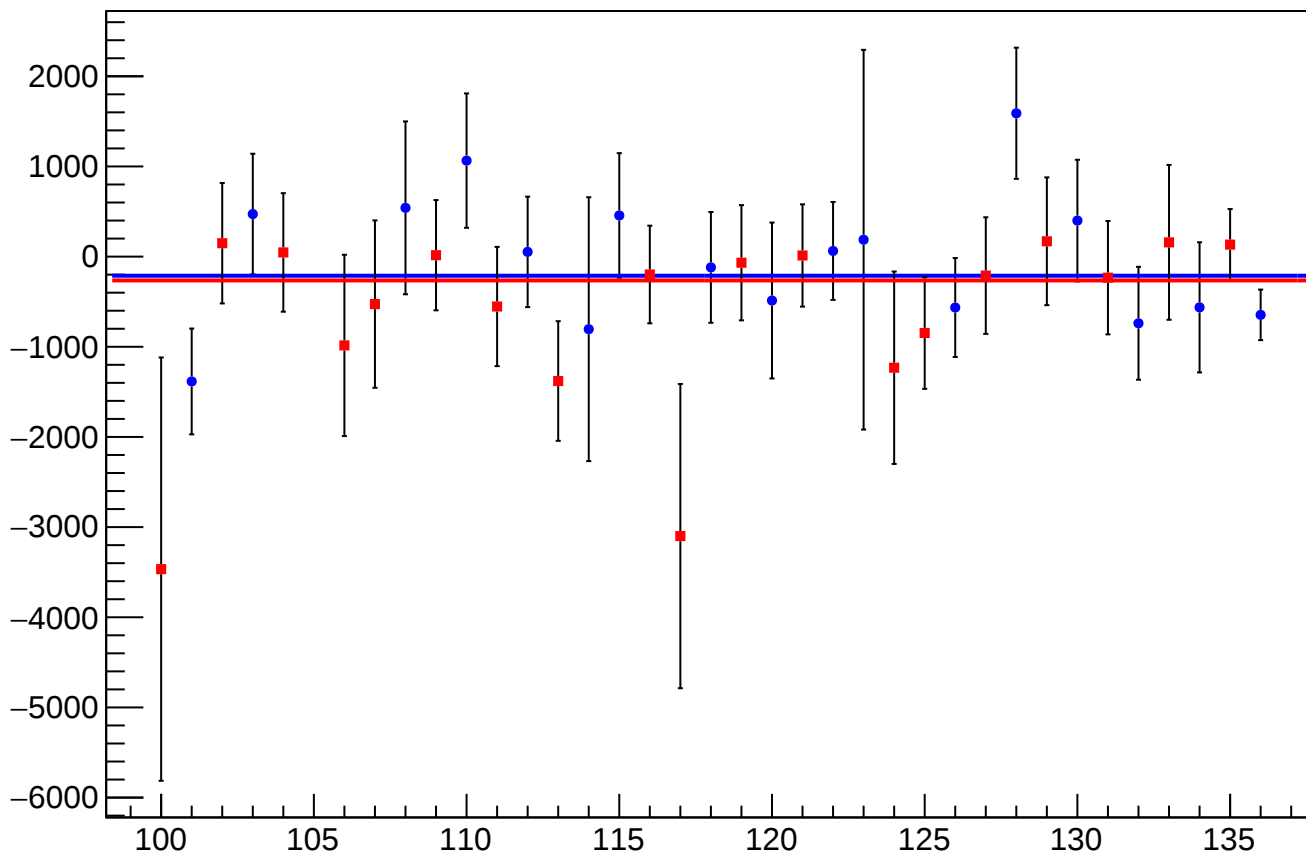
Right Out: 396.888 $\pm$ 0.109  $\chi^2$ /NDF: 654763.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

367.180 $\pm$ 0.105  $\chi^2$ /NDF: 827148.2/16

396.888 $\pm$ 0.109  $\chi^2$ /NDF: 654763.1/18

# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: -211.859+/-148.316  $\chi^2$ /NDF: 21.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

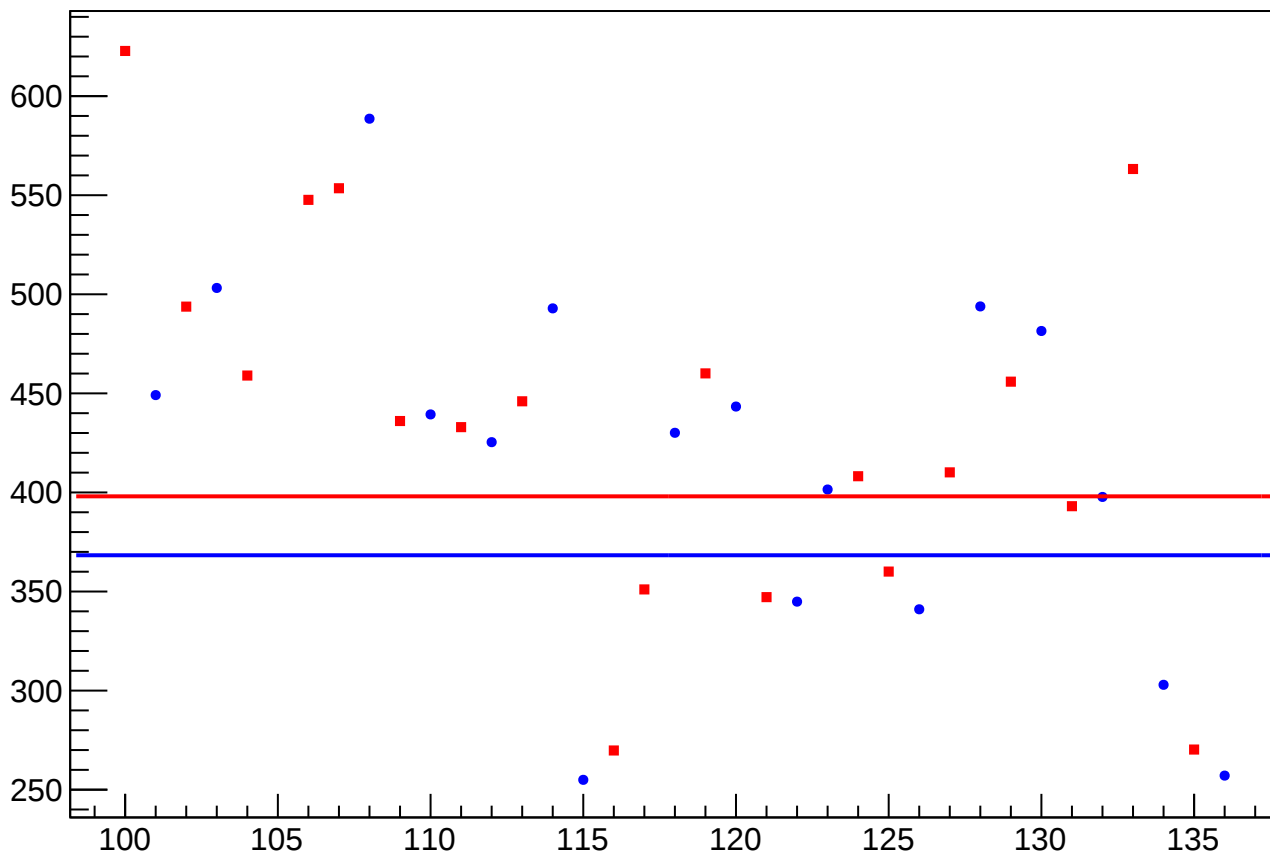
Right Out: -264.255+/-155.014  $\chi^2$ /NDF: 12.8/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-211.859+/-148.316  $\chi^2$ /NDF: 21.0/16

-264.255+/-155.014  $\chi^2$ /NDF: 12.8/18

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 368.302 $\pm$ 0.105  $\chi^2$ /NDF: 824619.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

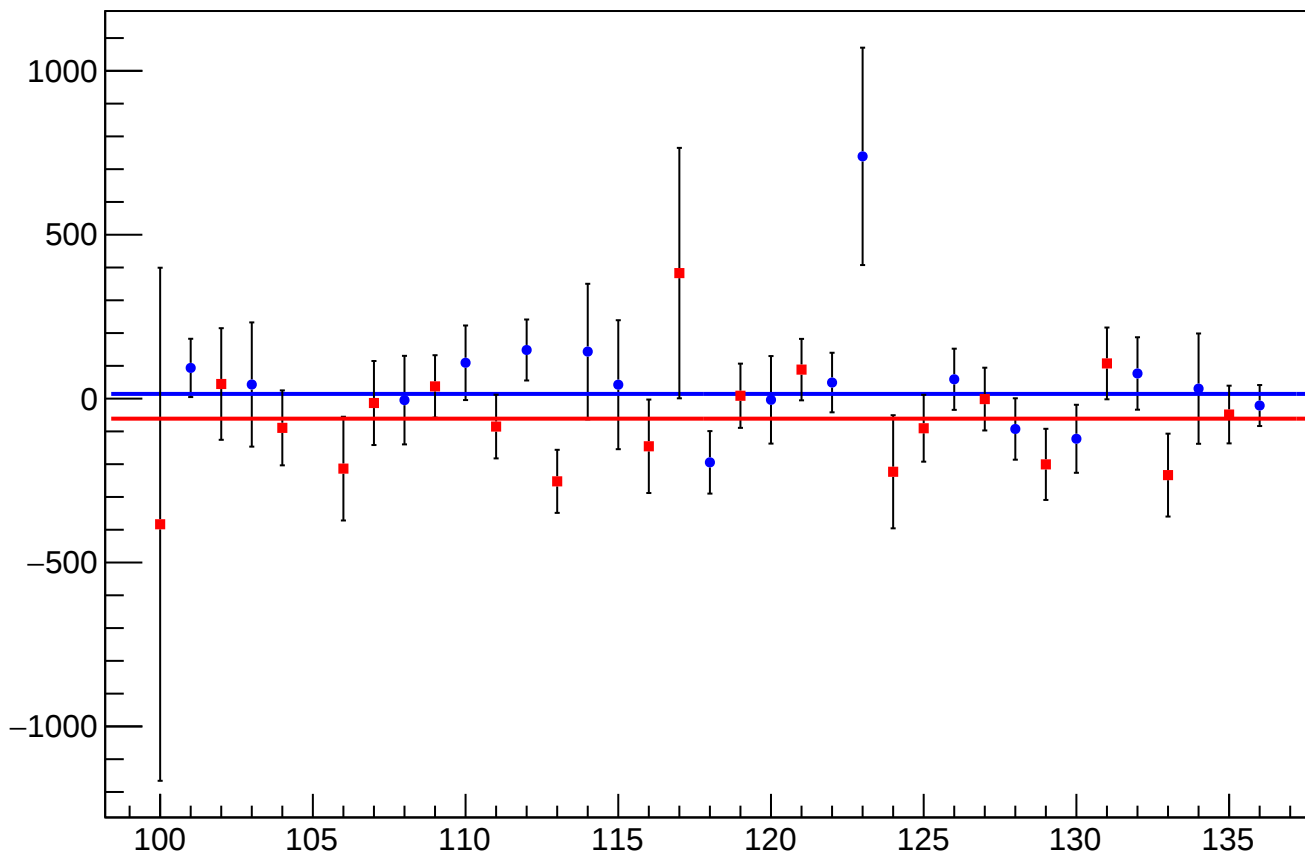
Right Out: 398.035 $\pm$ 0.110  $\chi^2$ /NDF: 655151.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

368.302 $\pm$ 0.105  $\chi^2$ /NDF: 824619.2/16

398.035 $\pm$ 0.110  $\chi^2$ /NDF: 655151.6/18

# reg\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 14.385+/-26.334  $\chi^2/\text{NDF}$ : 17.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

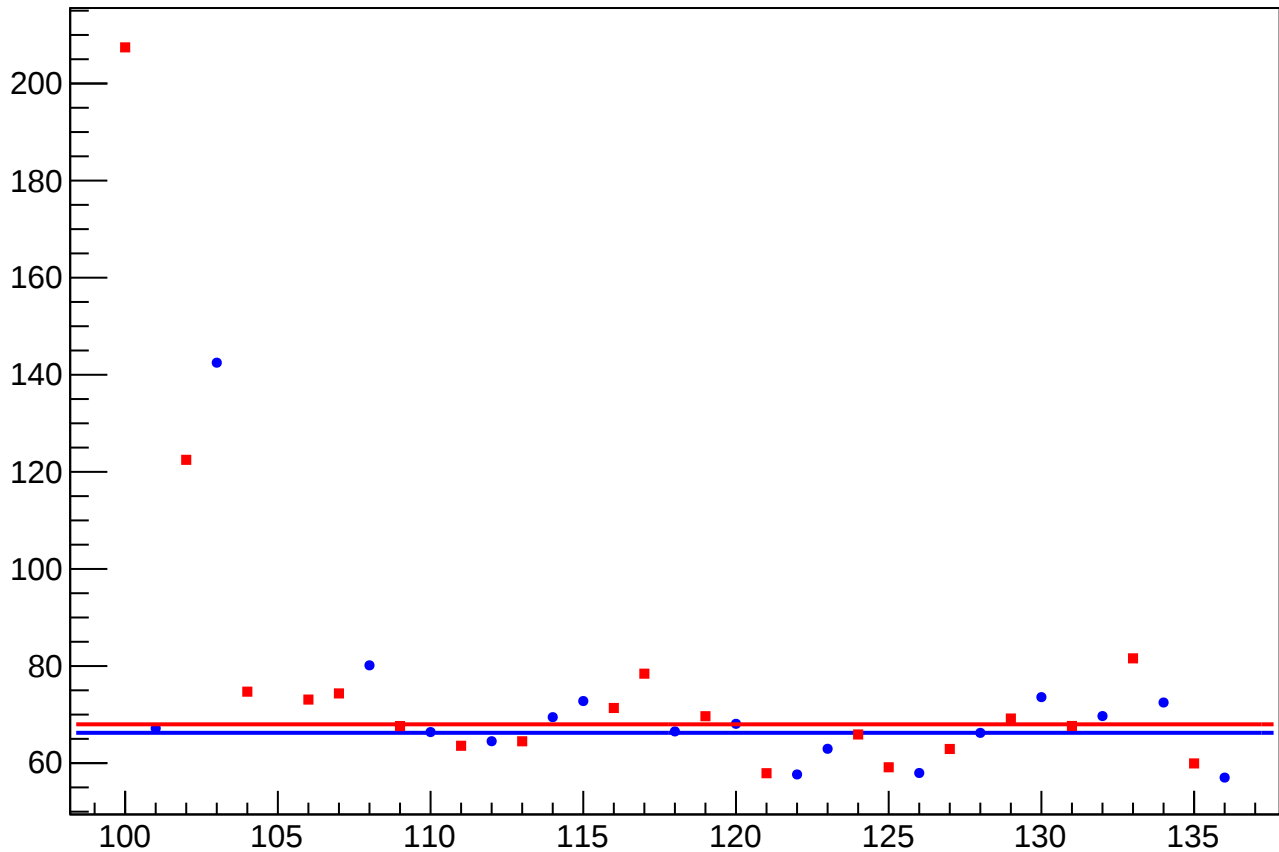
Right Out: -61.117+/-26.623  $\chi^2/\text{NDF}$ : 18.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14.385+/-26.334  $\chi^2/\text{NDF}$ : 17.7/16

-61.117+/-26.623  $\chi^2/\text{NDF}$ : 18.8/18

# reg\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 66.247+/-0.019  $\chi^2/\text{NDF}$ : 440944.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

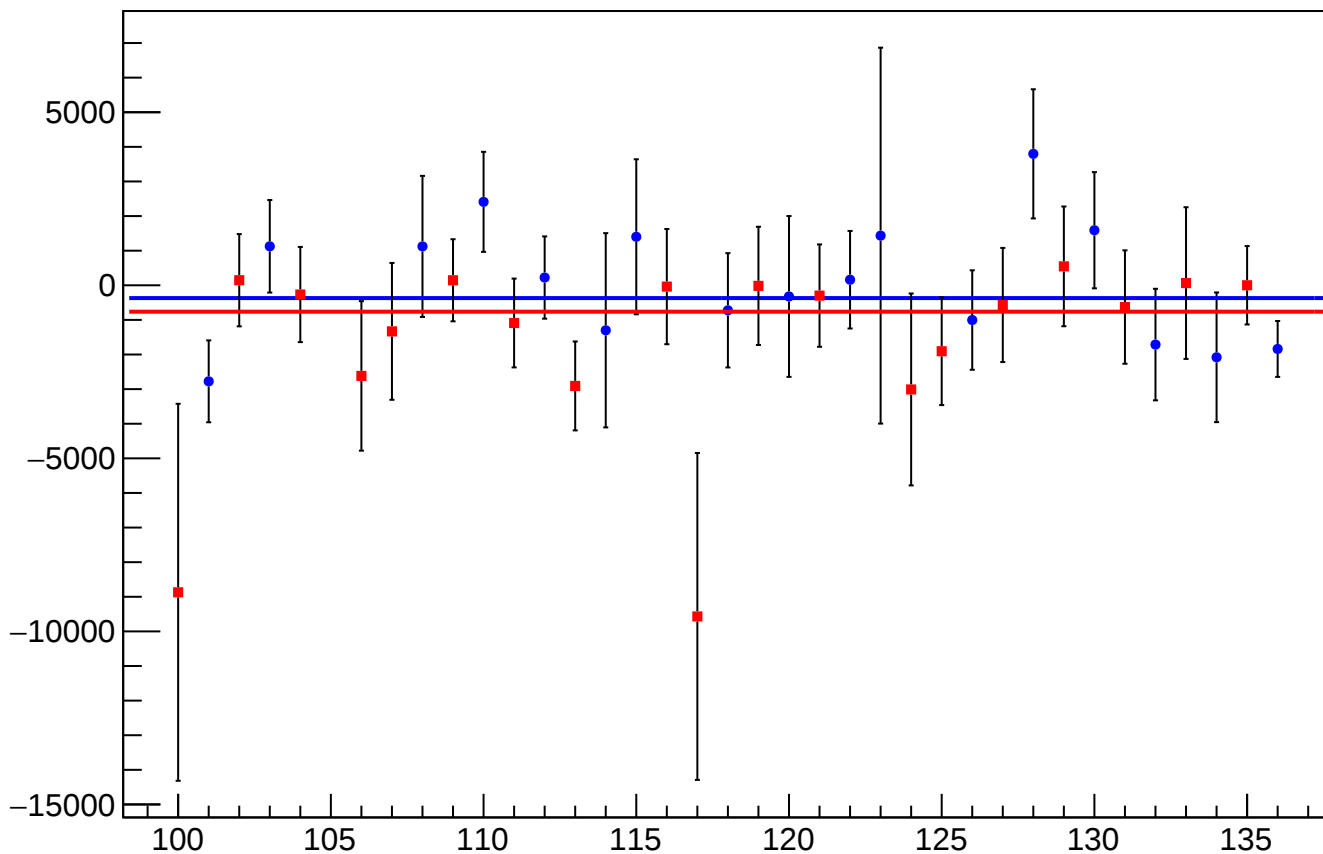
Right Out: 67.996+/-0.019  $\chi^2/\text{NDF}$ : 376377.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

66.247+/-0.019  $\chi^2/\text{NDF}$ : 440944.2/16

67.996+/-0.019  $\chi^2/\text{NDF}$ : 376377.7/18

asym\_sam\_12345678\_avg\_correction\_mean vs Slug



Right In: -369.546+/-366.432  $\chi^2$ /NDF: 22.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

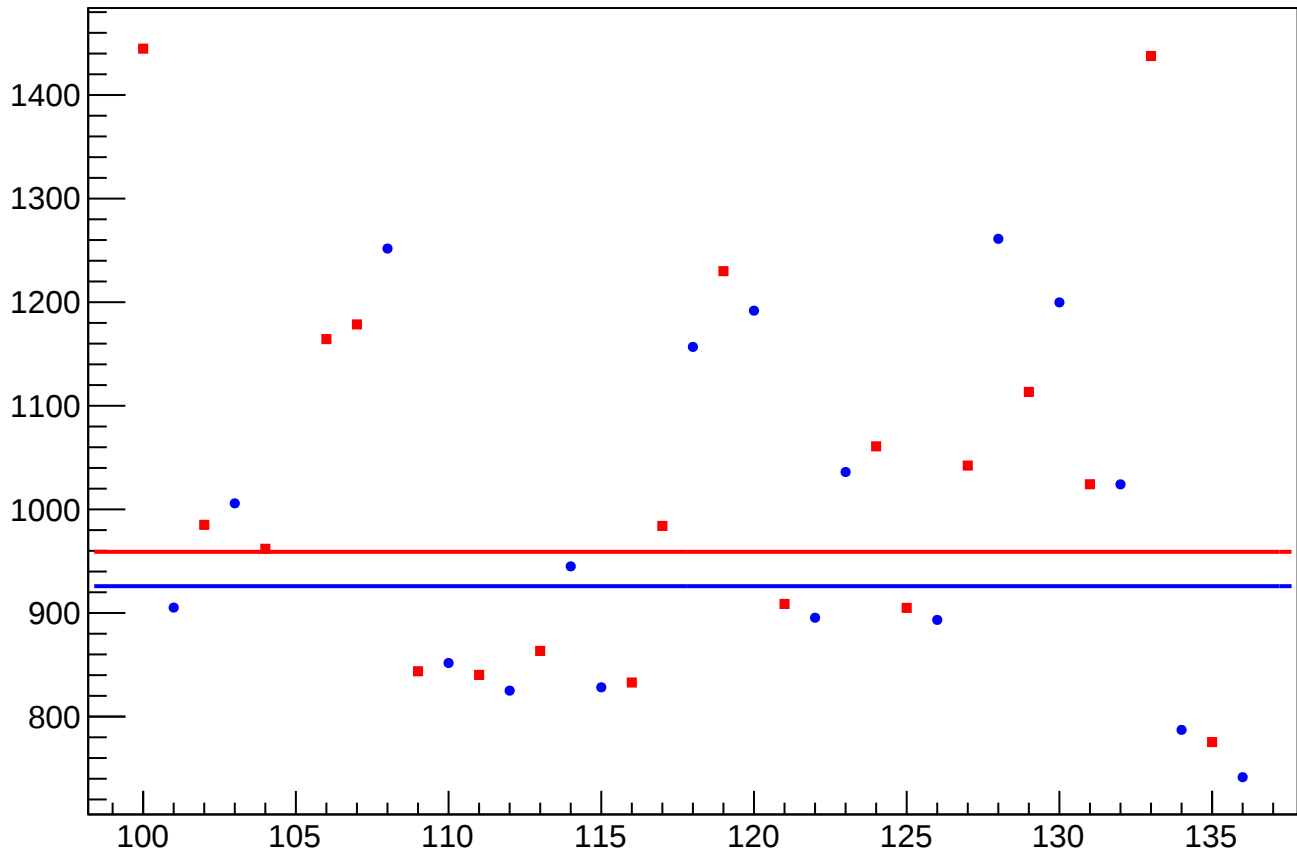
Right Out: -762.475+/-369.364  $\chi^2$ /NDF: 13.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-369.546+/-366.432  $\chi^2$ /NDF: 22.3/16

-762.475+/-369.364  $\chi^2$ /NDF: 13.4/18

# asym\_sam\_12345678\_avg\_correction\_rms vs Slug



Right In: 925.885+/-0.259  $\chi^2/\text{NDF}$ : 391084.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

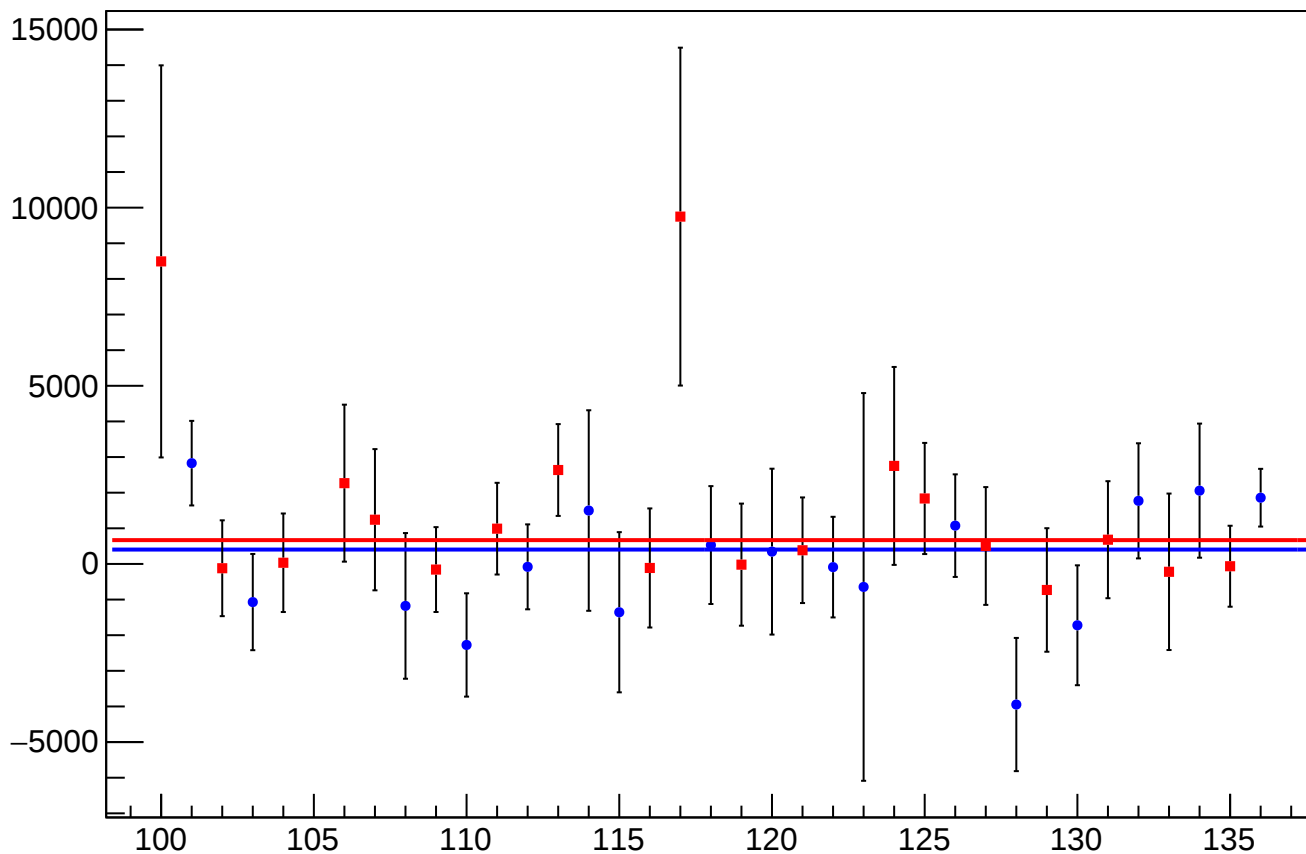
Right Out: 959.061+/-0.261  $\chi^2/\text{NDF}$ : 347984.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

925.885+/-0.259  $\chi^2/\text{NDF}$ : 391084.5/16

959.061+/-0.261  $\chi^2/\text{NDF}$ : 347984.9/18

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 403.591+/-367.686  $\chi^2/\text{NDF}$ : 22.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

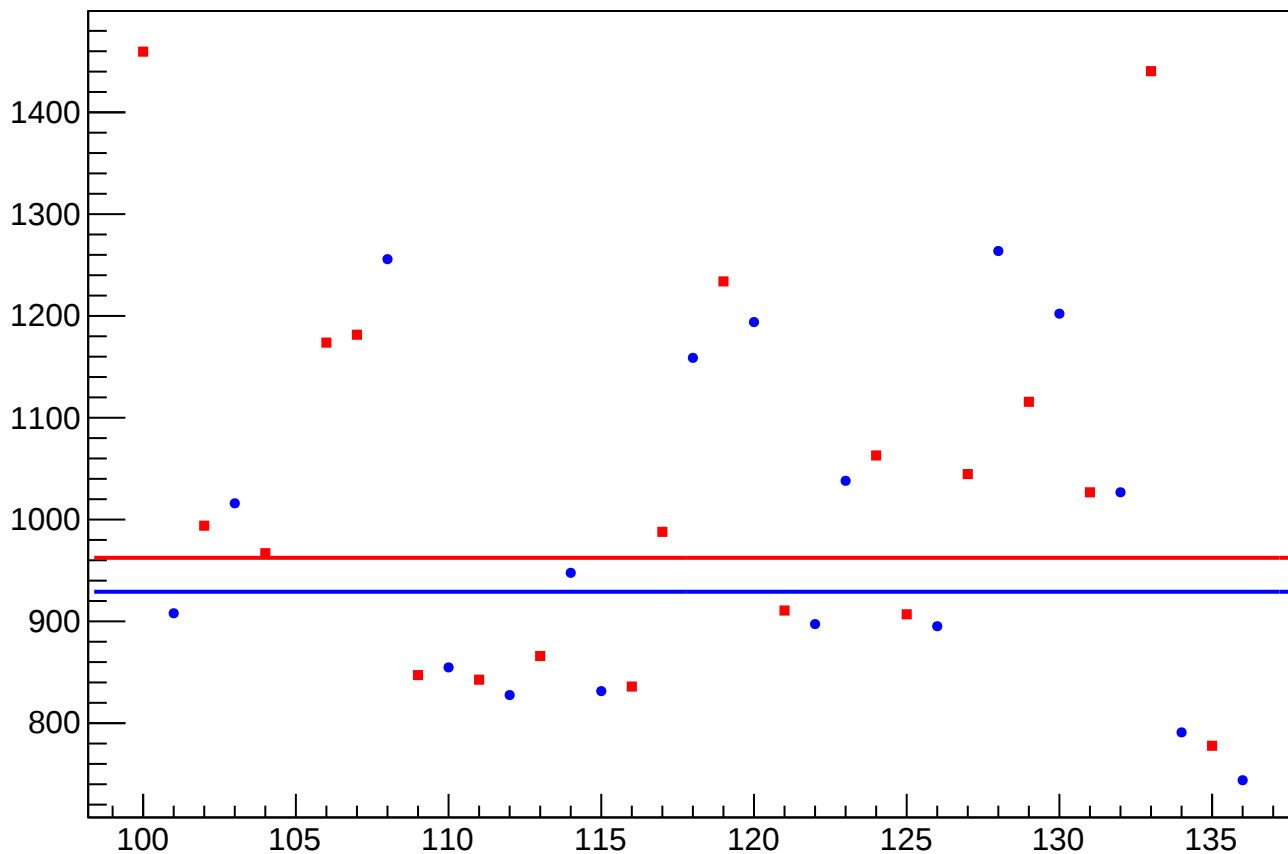
Right Out: 668.356+/-370.853  $\chi^2/\text{NDF}$ : 12.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

403.591+/-367.686  $\chi^2/\text{NDF}$ : 22.4/16

668.356+/-370.853  $\chi^2/\text{NDF}$ : 12.5/18

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 929.096+/-0.260  $\chi^2/\text{NDF}$ : 390292.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

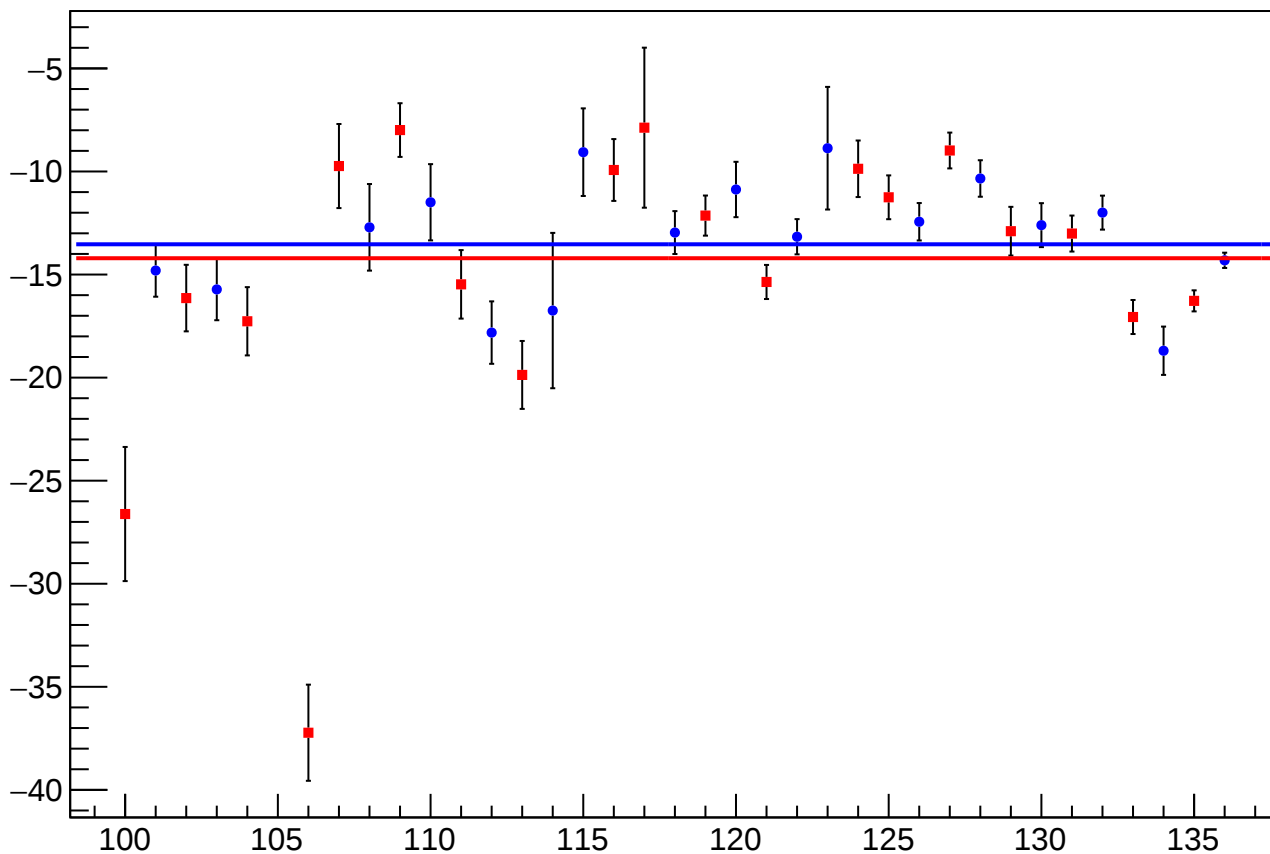
Right Out: 962.440+/-0.262  $\chi^2/\text{NDF}$ : 348087.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

929.096+/-0.260  $\chi^2/\text{NDF}$ : 390292.1/16

962.440+/-0.262  $\chi^2/\text{NDF}$ : 348087.4/18

# reg\_asym\_sam1\_diff\_bpm4aX\_slope vs Slug



Right In: -13.532 $\pm$ 0.235  $\chi^2$ /NDF: 67.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

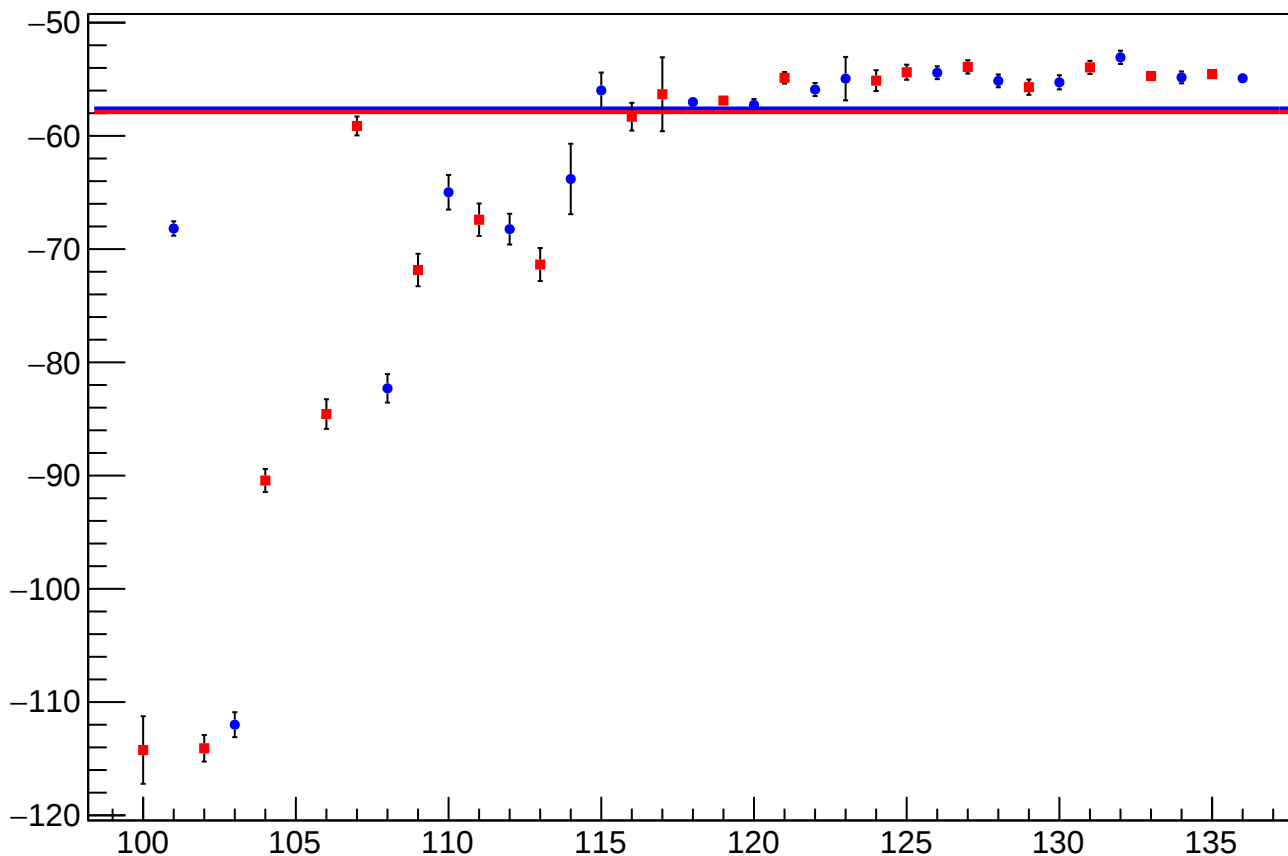
Right Out: -14.208 $\pm$ 0.252  $\chi^2$ /NDF: 259.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-13.532 $\pm$ 0.235  $\chi^2$ /NDF: 67.0/16

-14.208 $\pm$ 0.252  $\chi^2$ /NDF: 259.4/18

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



Right In: -57.581+/-0.143  $\chi^2/\text{NDF}$ : 3455.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

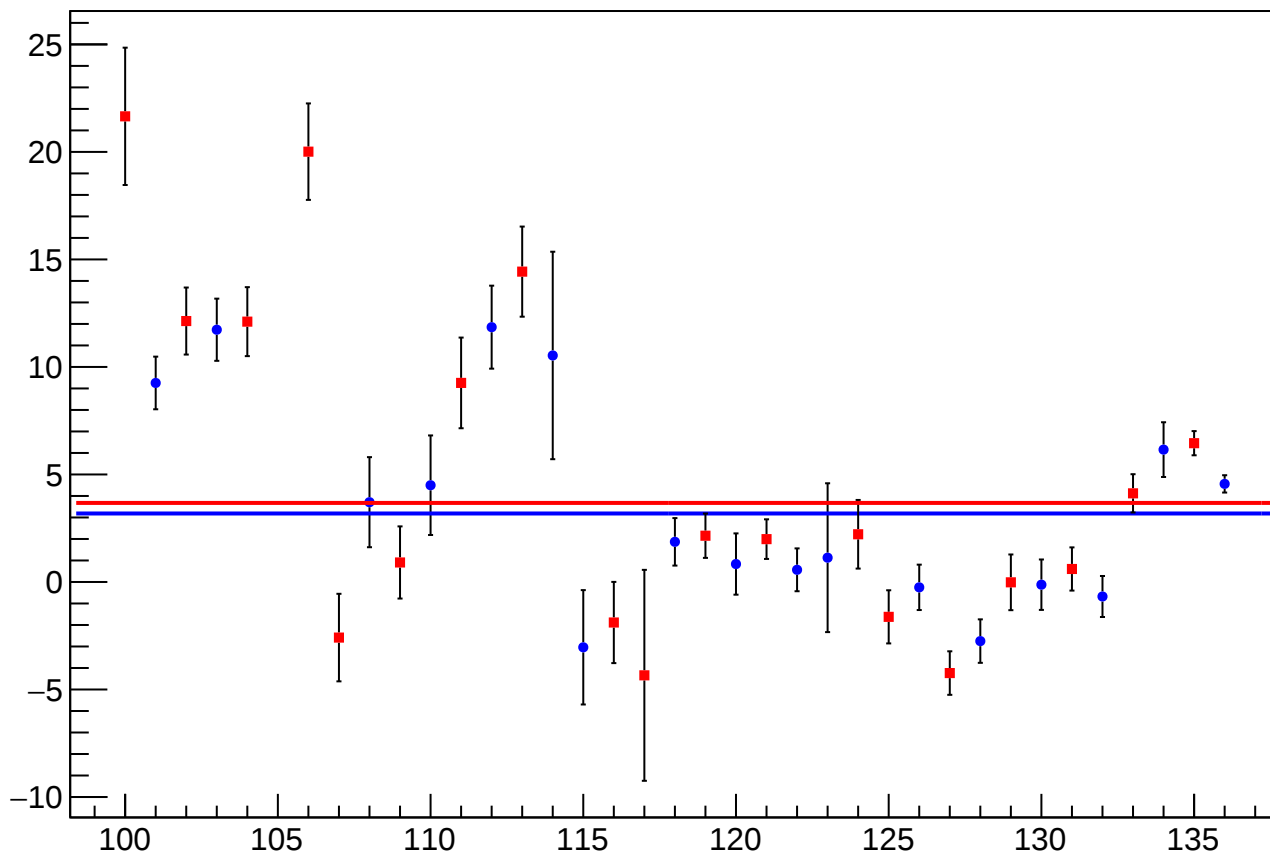
-57.581+/-0.143  $\chi^2/\text{NDF}$ : 3455.5/16

Right Out: -57.904+/-0.148  $\chi^2/\text{NDF}$ : 4679.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-57.904+/-0.148  $\chi^2/\text{NDF}$ : 4679.2/18

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In: 3.185+/-0.259  $\chi^2/\text{NDF}$ : 185.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

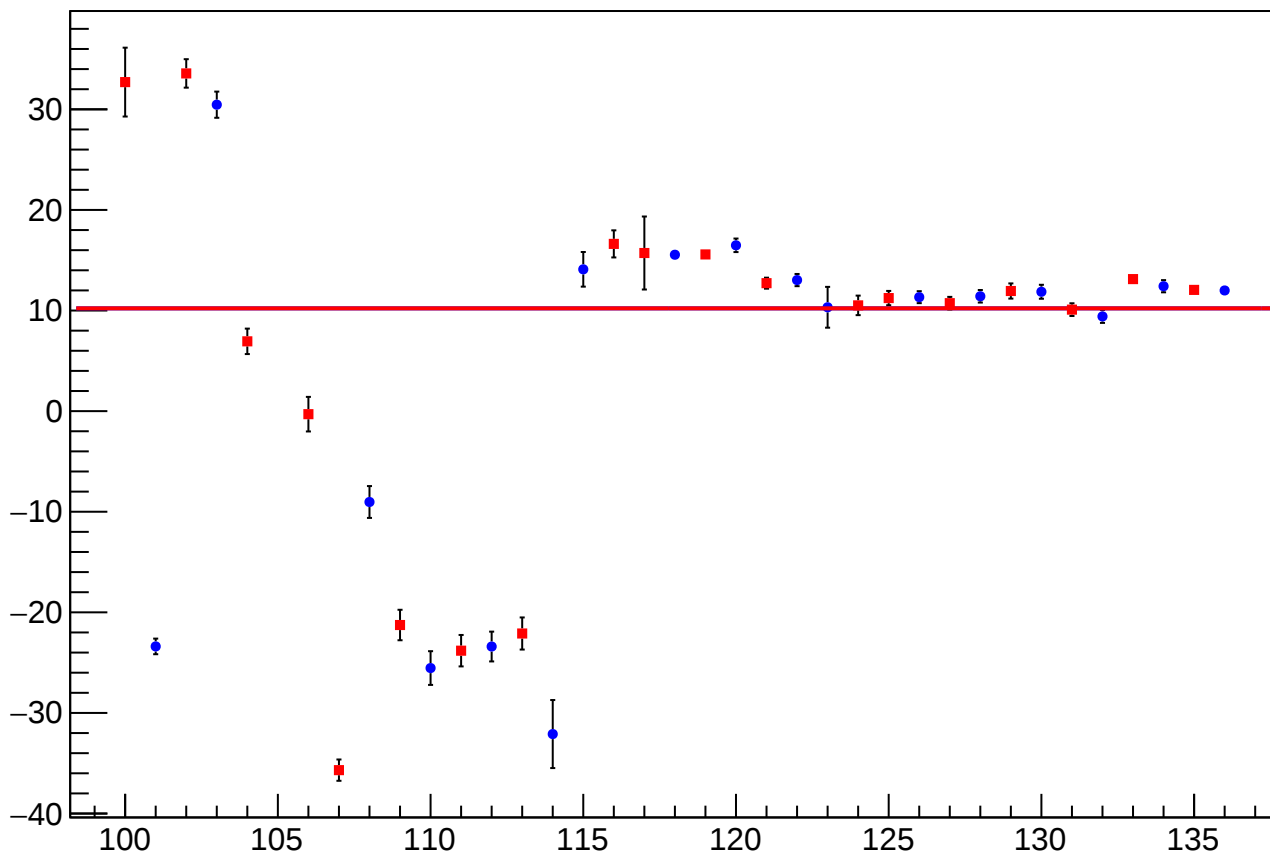
Right Out: 3.677+/-0.281  $\chi^2/\text{NDF}$ : 326.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.185+/-0.259  $\chi^2/\text{NDF}$ : 185.8/16

3.677+/-0.281  $\chi^2/\text{NDF}$ : 326.7/18

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In: 10.215+/-0.158  $\chi^2$ /NDF: 3692.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

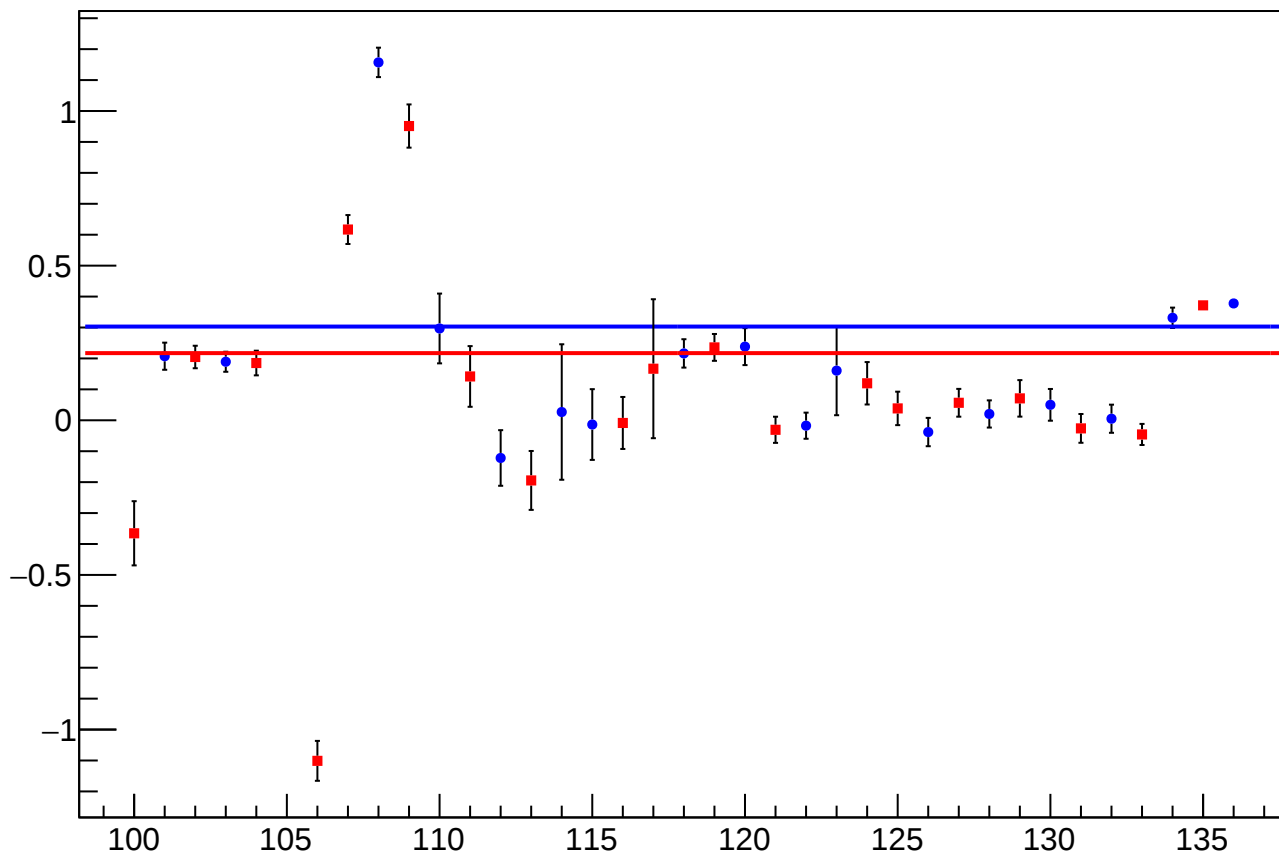
Right Out: 10.217+/-0.167  $\chi^2$ /NDF: 3808.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

10.215+/-0.158  $\chi^2$ /NDF: 3692.6/16

10.217+/-0.167  $\chi^2$ /NDF: 3808.6/18

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In: 0.303+/-0.008  $\chi^2/\text{NDF}$ : 646.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

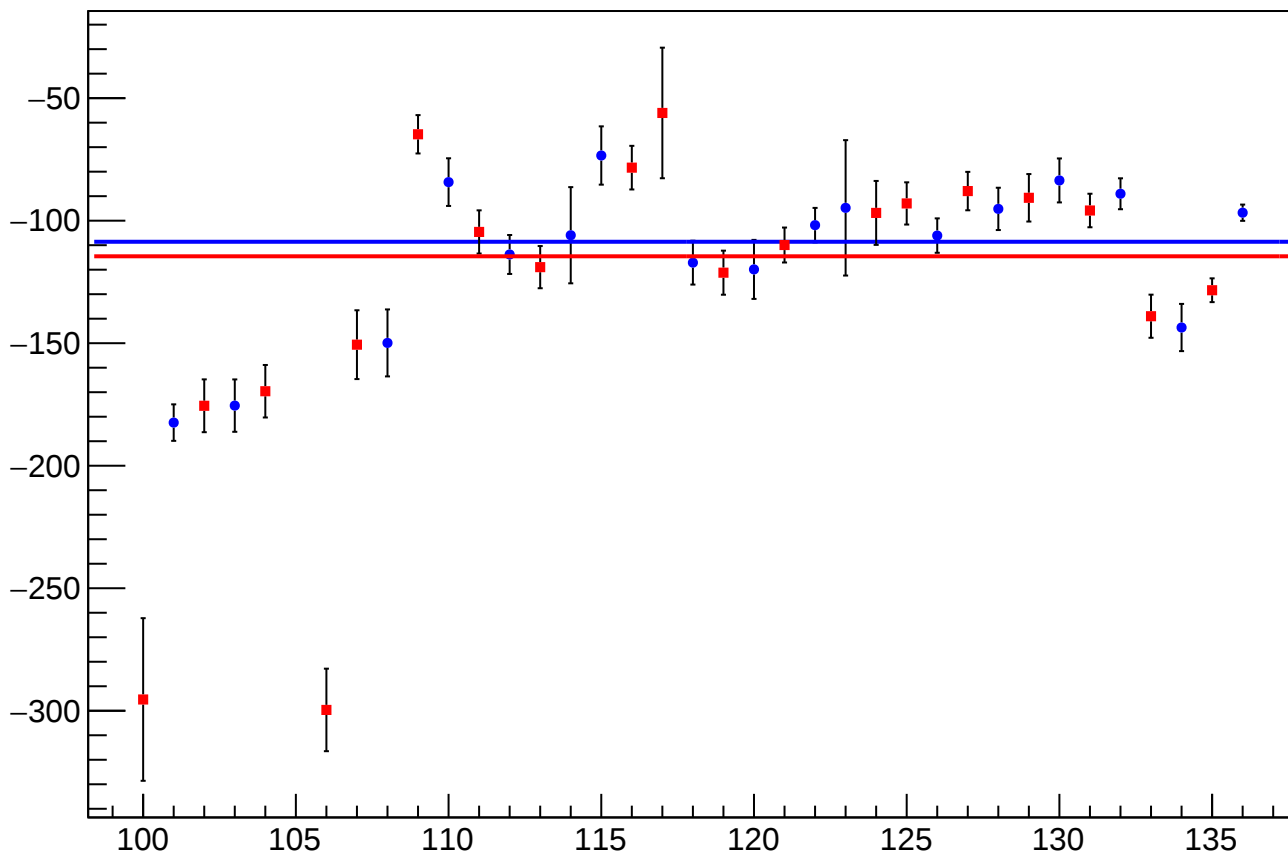
Right Out: 0.217+/-0.009  $\chi^2/\text{NDF}$ : 940.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.303+/-0.008  $\chi^2/\text{NDF}$ : 646.3/16

0.217+/-0.009  $\chi^2/\text{NDF}$ : 940.5/18

# reg\_asym\_sam2\_diff\_bpm4aX\_slope vs Slug



Right In:  $-108.603 \pm 1.883$   $\chi^2/\text{NDF}$ : 210.8/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

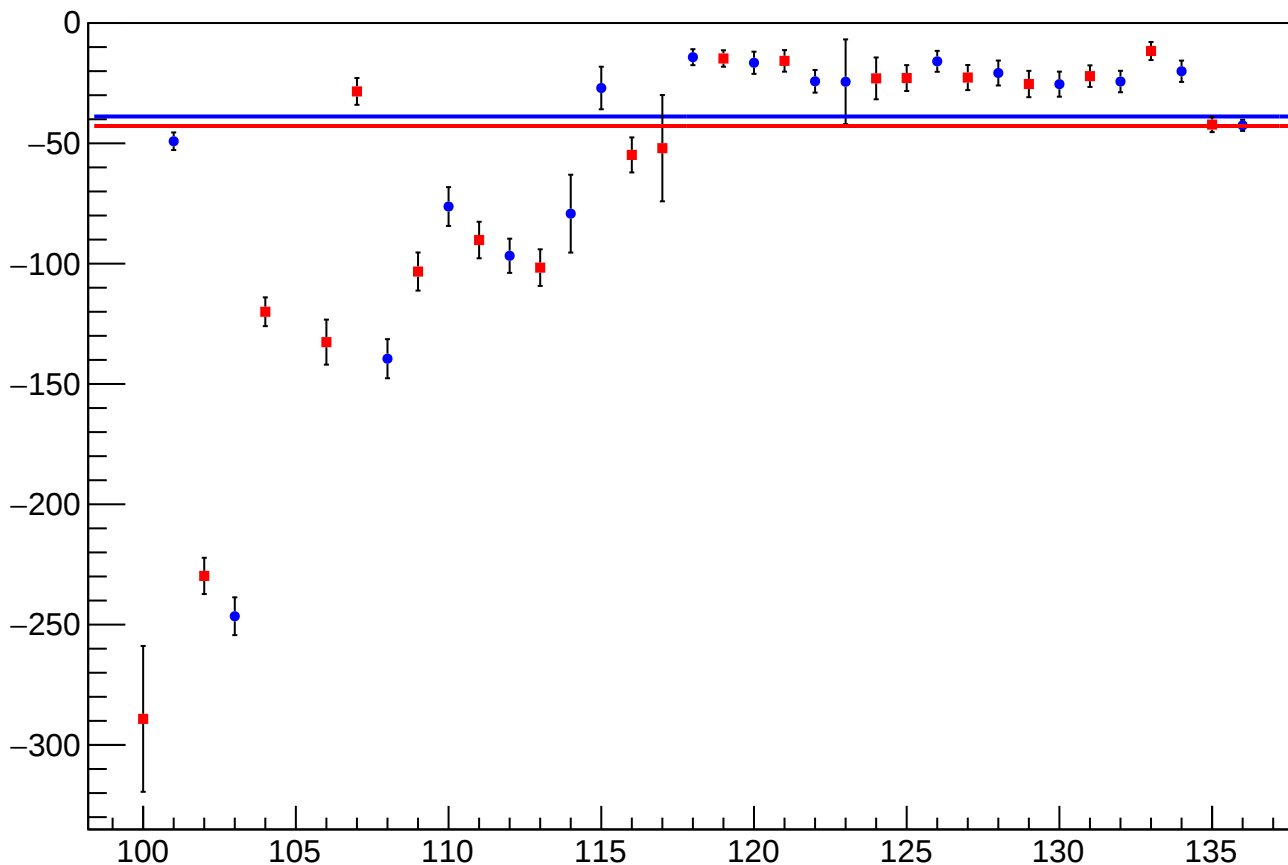
Right Out:  $-114.533 \pm 2.047$   $\chi^2/\text{NDF}$ : 329.0/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-108.603 \pm 1.883$   $\chi^2/\text{NDF}$ : 210.8/16

$-114.533 \pm 2.047$   $\chi^2/\text{NDF}$ : 329.0/18

# reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-38.844 \pm 1.148$   $\chi^2/\text{NDF}: 1121.9/16$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

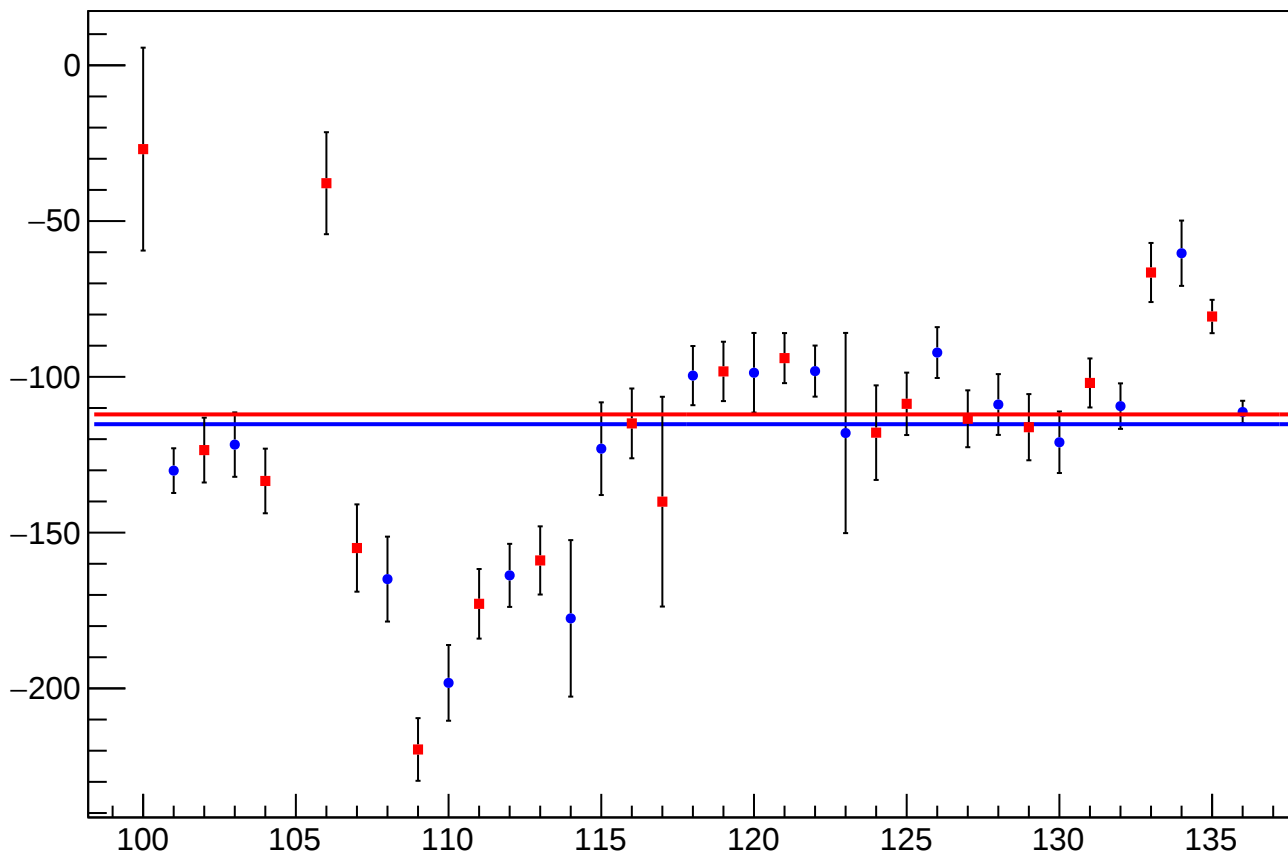
Right Out:  $-42.797 \pm 1.252$   $\chi^2/\text{NDF}: 1345.5/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-38.844 \pm 1.148$   $\chi^2/\text{NDF}: 1121.9/16$

$-42.797 \pm 1.252$   $\chi^2/\text{NDF}: 1345.5/18$

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In: -115.199+/-2.081  $\chi^2$ /NDF: 140.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

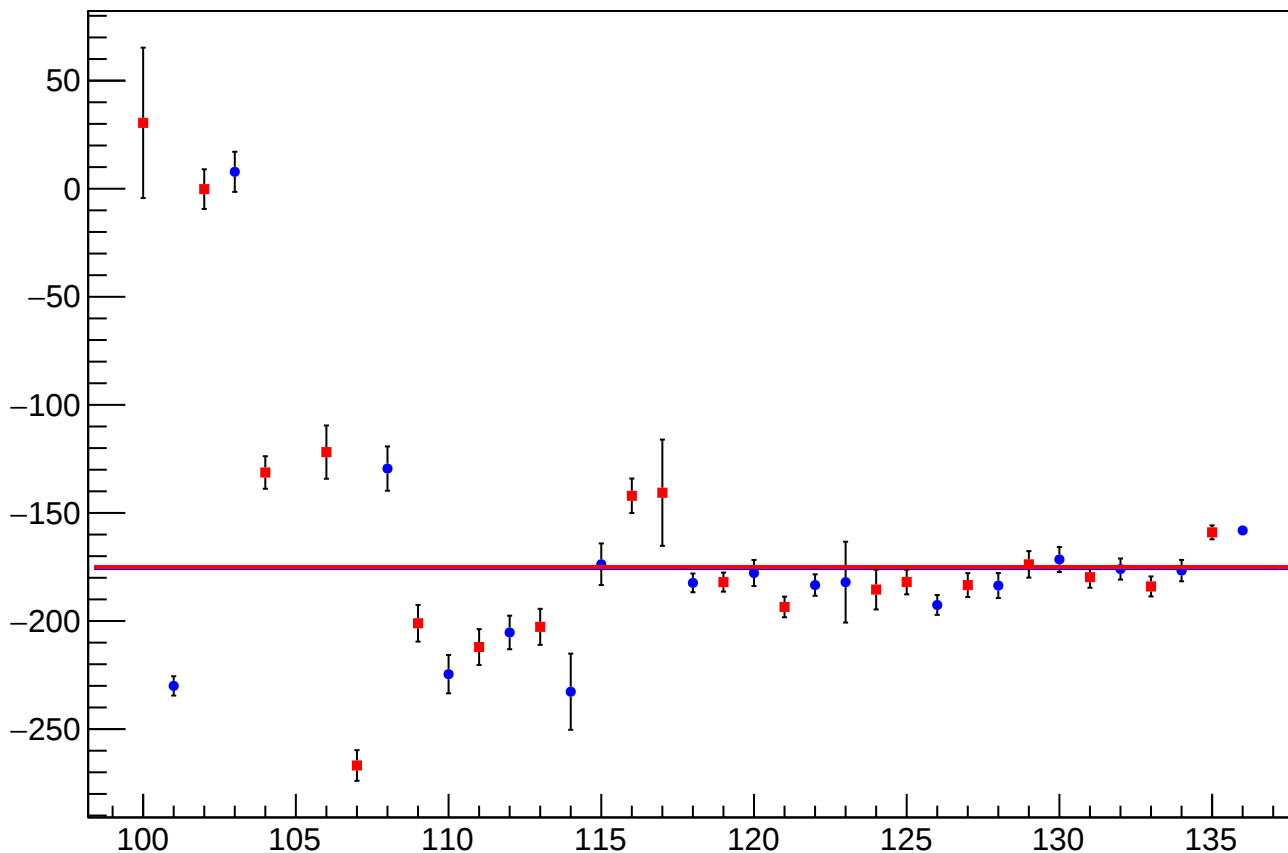
Right Out: -112.055+/-2.311  $\chi^2$ /NDF: 272.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-115.199+/-2.081  $\chi^2$ /NDF: 140.8/16

-112.055+/-2.311  $\chi^2$ /NDF: 272.1/18

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In:  $-175.521 \pm 1.277$   $\chi^2/\text{NDF}$ : 692.3/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

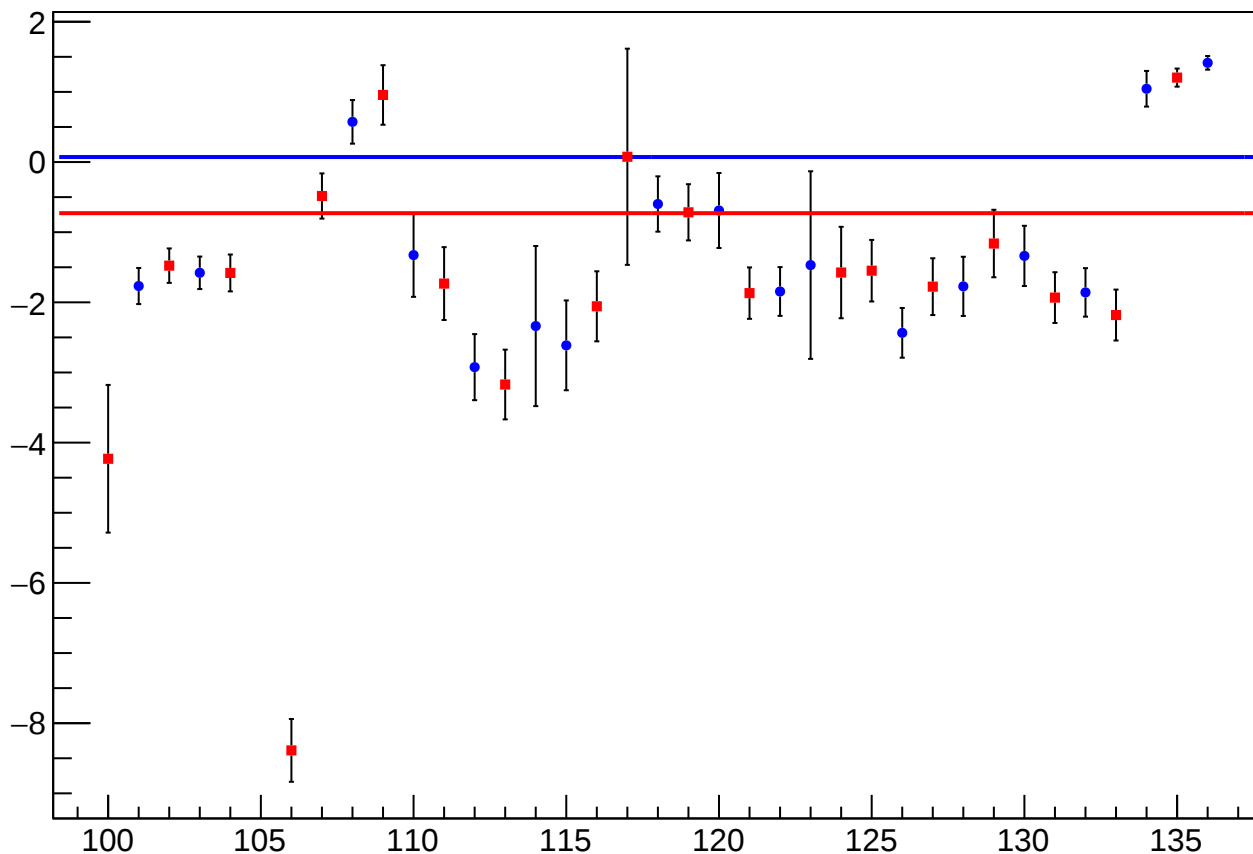
Right Out:  $-175.008 \pm 1.415$   $\chi^2/\text{NDF}$ : 729.9/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-175.521 \pm 1.277$   $\chi^2/\text{NDF}$ : 692.3/16

$-175.008 \pm 1.415$   $\chi^2/\text{NDF}$ : 729.9/18

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In: 0.072 $\pm$ 0.067  $\chi^2$ /NDF: 525.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

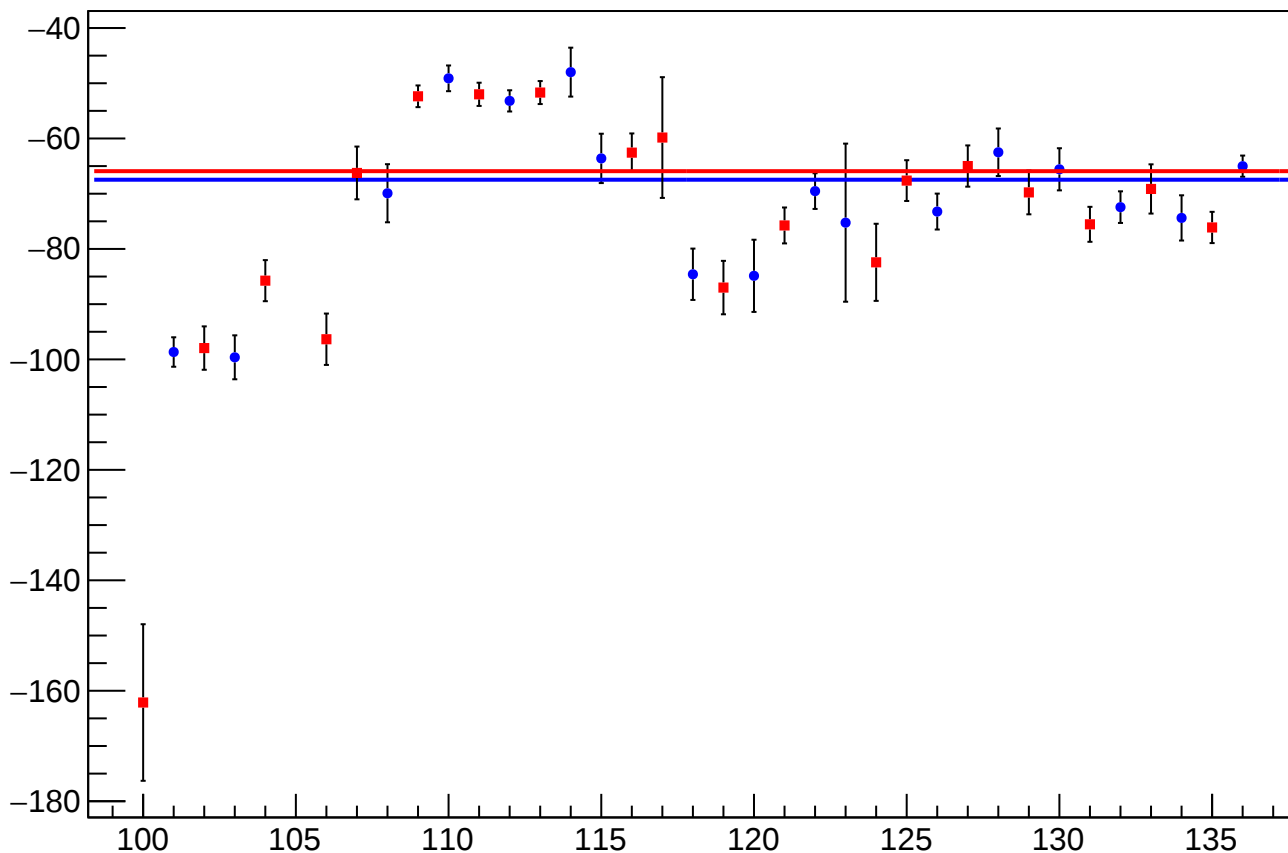
Right Out: -0.729 $\pm$ 0.076  $\chi^2$ /NDF: 649.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.072 $\pm$ 0.067  $\chi^2$ /NDF: 525.2/16

-0.729 $\pm$ 0.076  $\chi^2$ /NDF: 649.2/18

# reg\_asym\_sam3\_diff\_bpm4aX\_slope vs Slug



Right In: -67.467+/-0.782  $\chi^2/\text{NDF}$ : 373.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

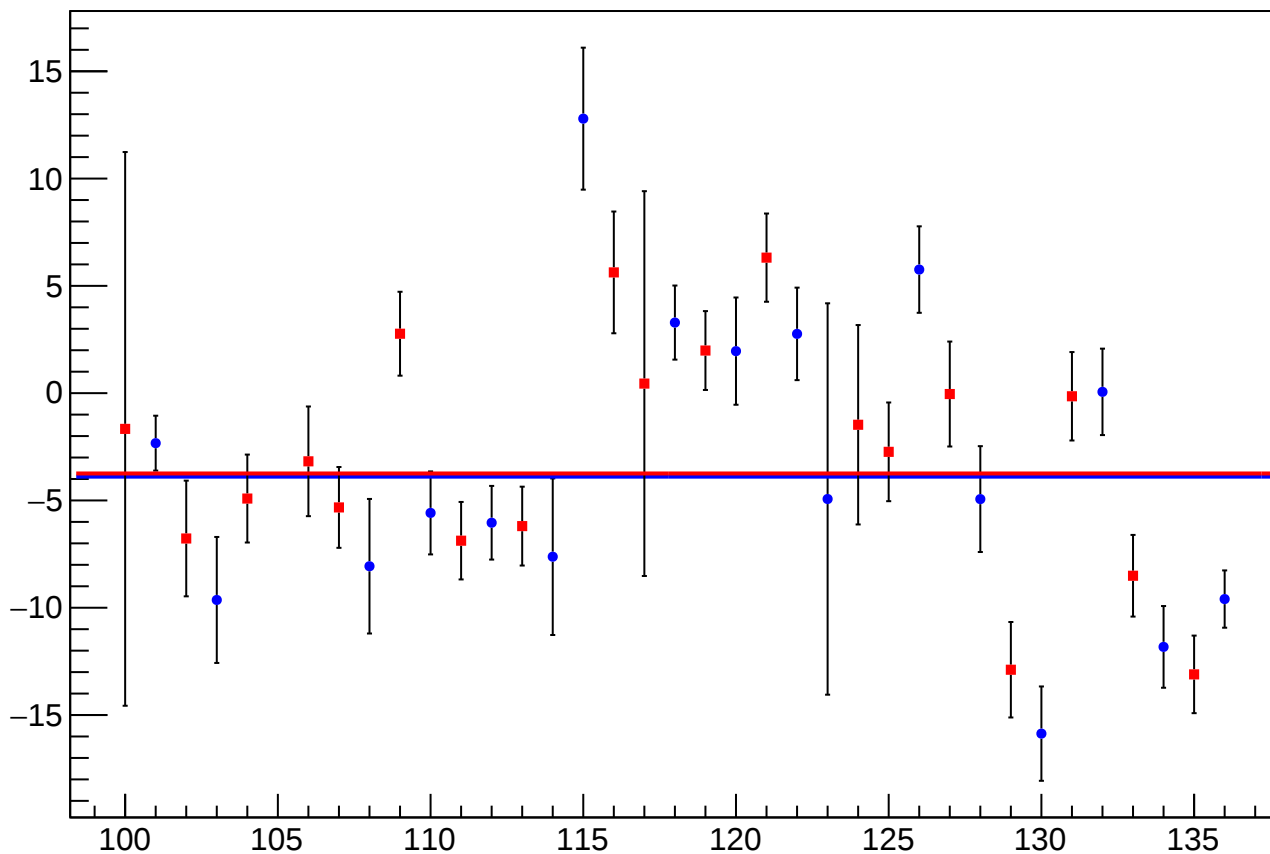
Right Out: -65.919+/-0.771  $\chi^2/\text{NDF}$ : 380.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-67.467+/-0.782  $\chi^2/\text{NDF}$ : 373.3/16

-65.919+/-0.771  $\chi^2/\text{NDF}$ : 380.9/18

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug



Right In: -3.890+/-0.498  $\chi^2/\text{NDF}$ : 160.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

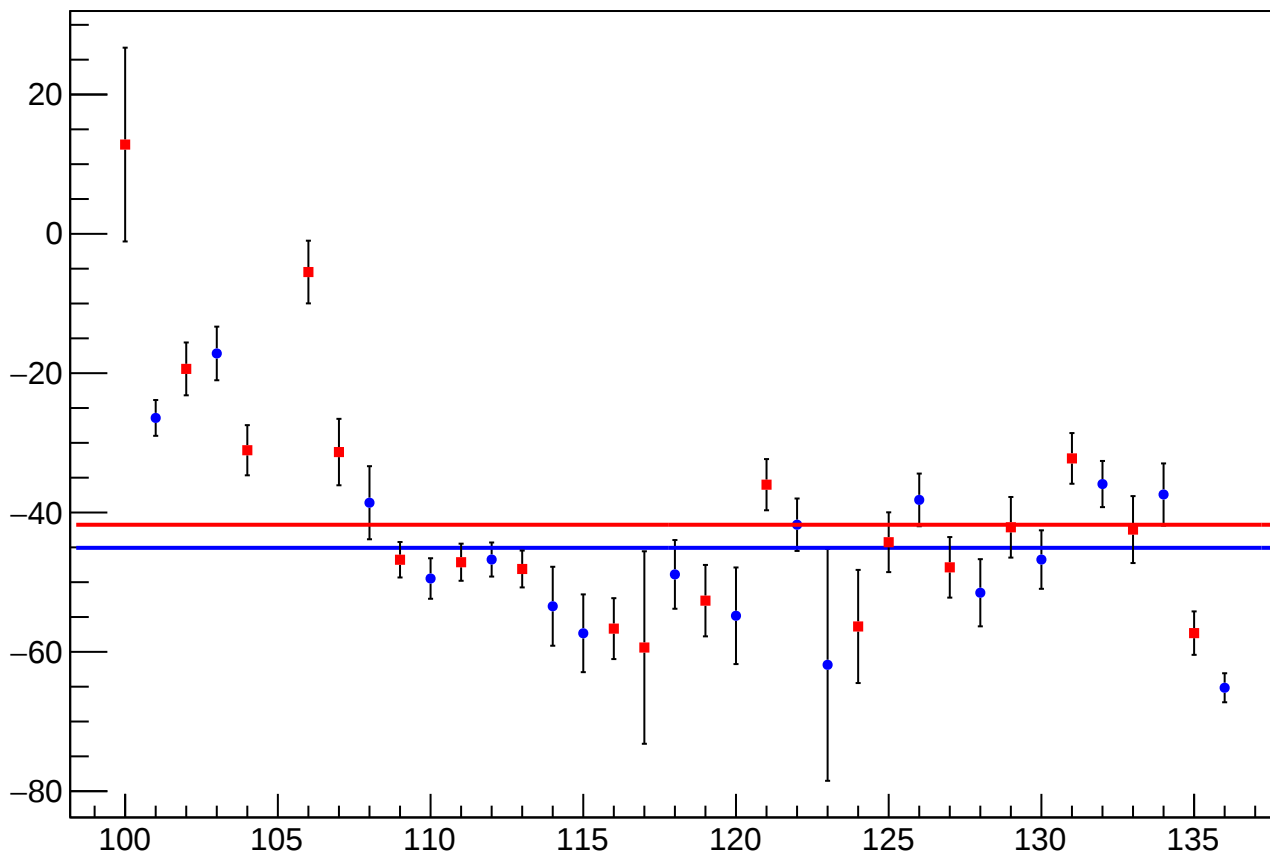
Right Out: -3.743+/-0.515  $\chi^2/\text{NDF}$ : 118.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.890+/-0.498  $\chi^2/\text{NDF}$ : 160.5/16

-3.743+/-0.515  $\chi^2/\text{NDF}$ : 118.8/18

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In: -45.070 $\pm$ 0.883  $\chi^2$ /NDF: 229.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

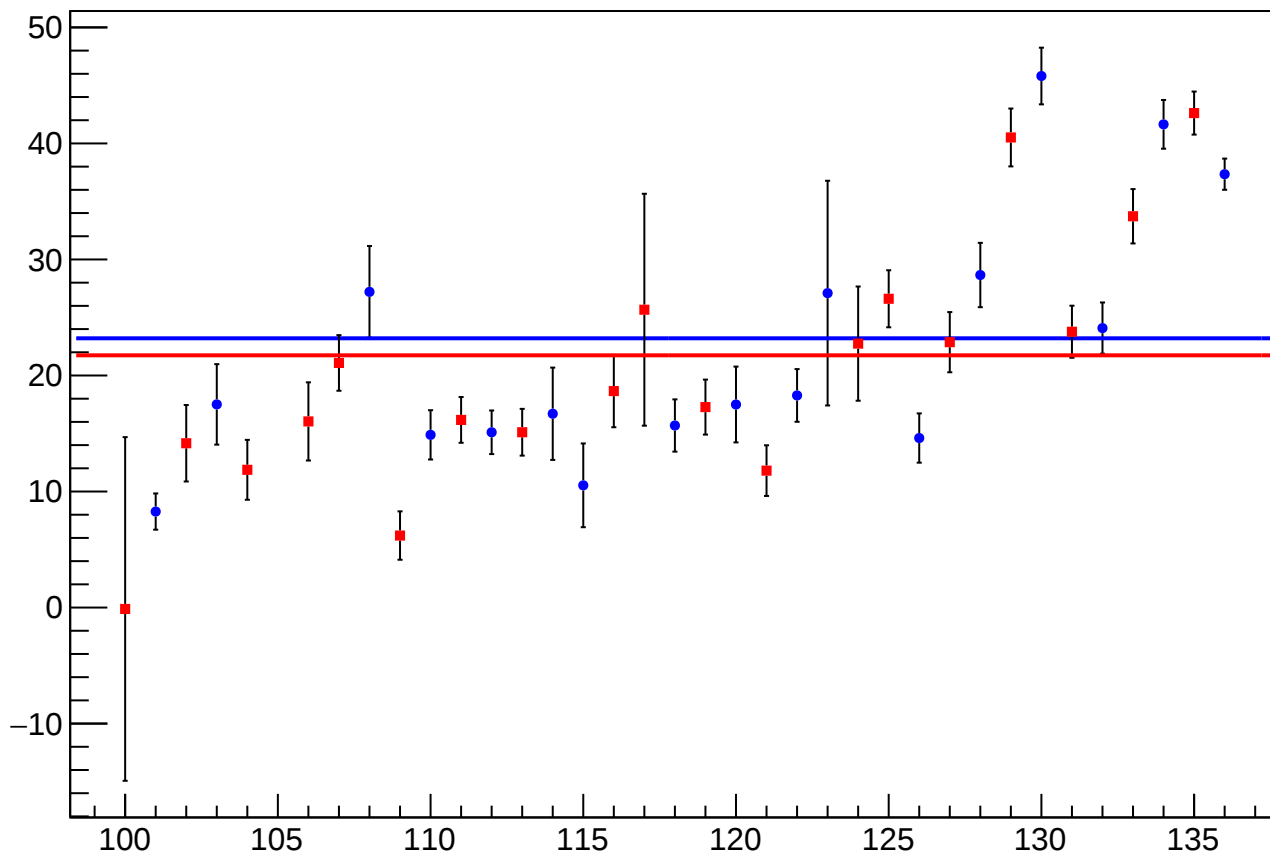
Right Out: -41.756 $\pm$ 0.894  $\chi^2$ /NDF: 200.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-45.070 $\pm$ 0.883  $\chi^2$ /NDF: 229.7/16

-41.756 $\pm$ 0.894  $\chi^2$ /NDF: 200.1/18

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 23.205+/-0.559  $\chi^2$ /NDF: 457.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

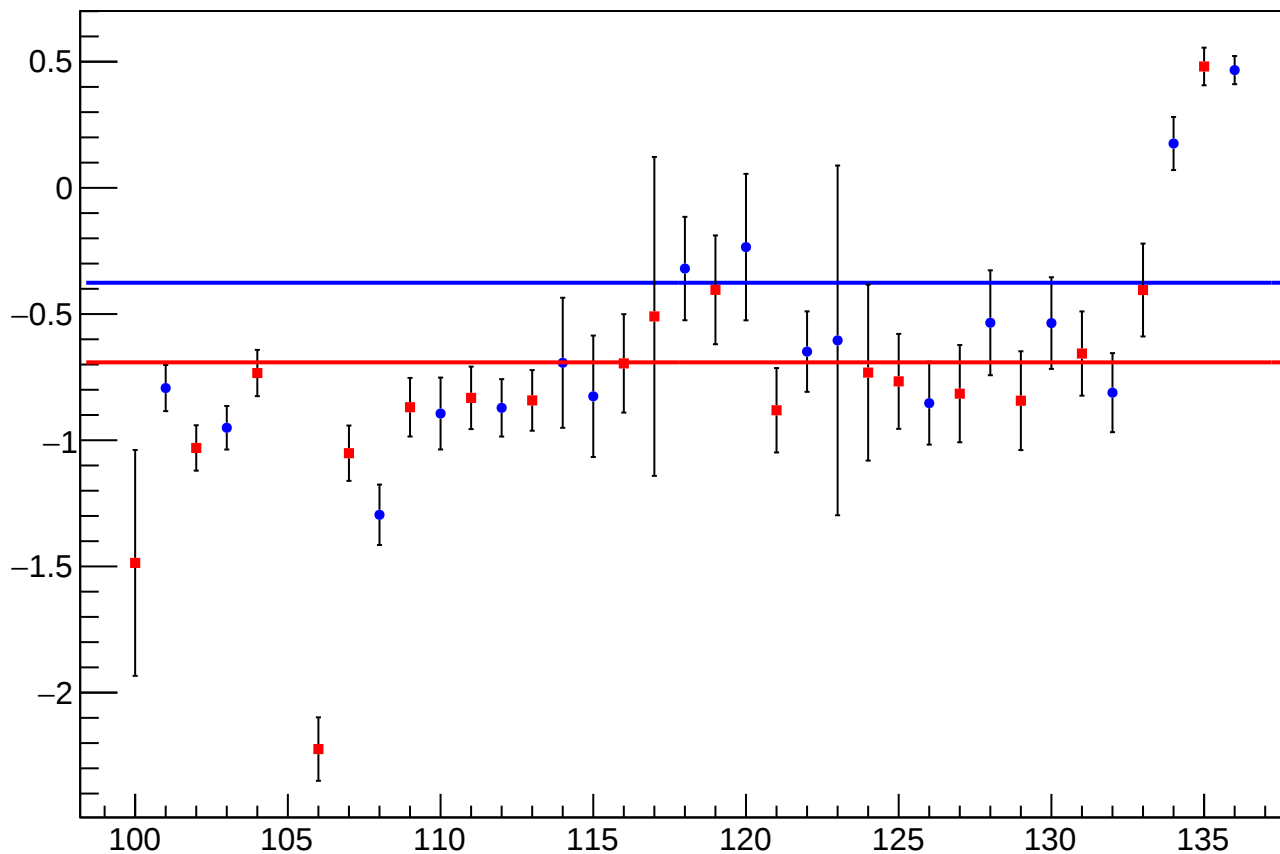
Right Out: 21.739+/-0.584  $\chi^2$ /NDF: 339.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

23.205+/-0.559  $\chi^2$ /NDF: 457.3/16

21.739+/-0.584  $\chi^2$ /NDF: 339.2/18

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.376 \pm 0.030$   $\chi^2/\text{NDF}: 437.3/16$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

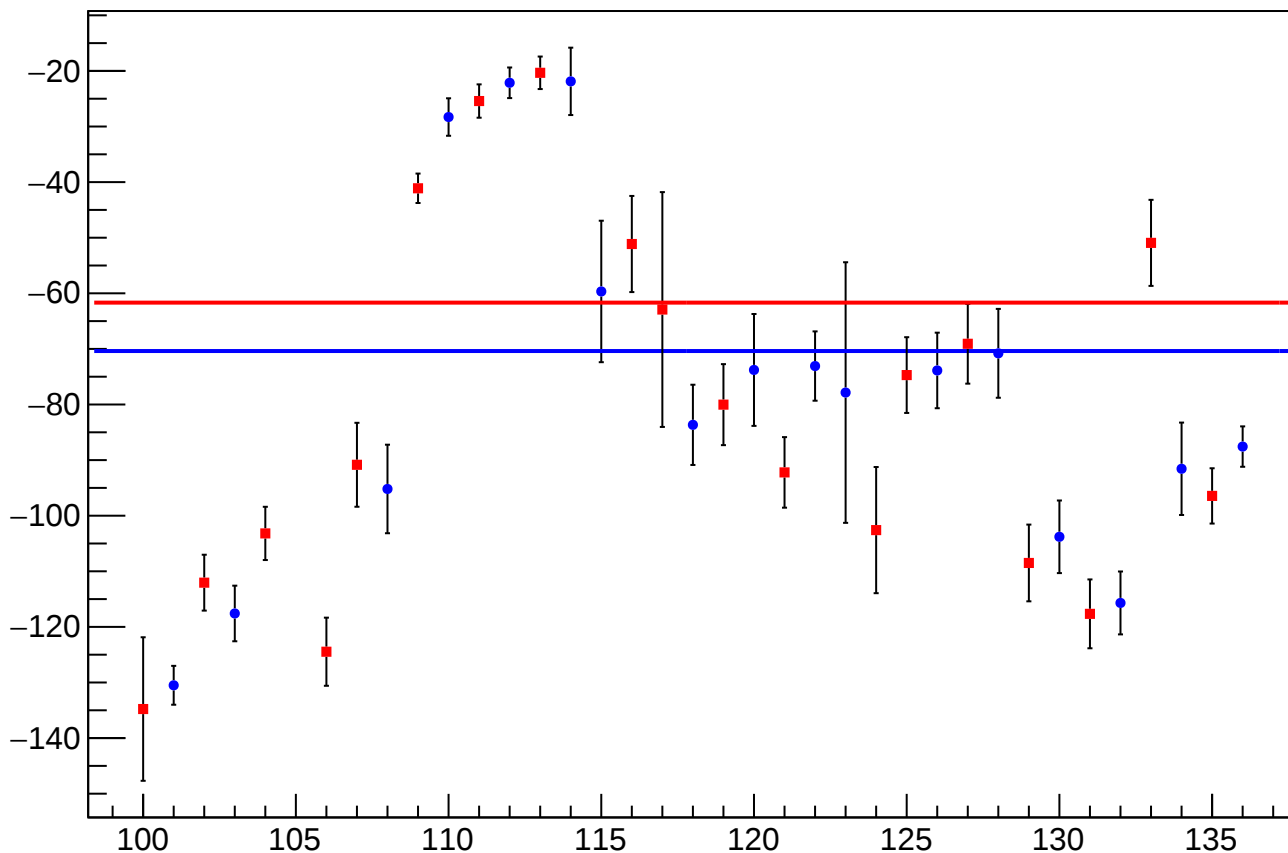
Right Out:  $-0.691 \pm 0.031$   $\chi^2/\text{NDF}: 436.3/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.376 \pm 0.030$   $\chi^2/\text{NDF}: 437.3/16$

$-0.691 \pm 0.031$   $\chi^2/\text{NDF}: 436.3/18$

# reg\_asym\_sam4\_diff\_bpm4aX\_slope vs Slug



Right In:  $-70.382 \pm 1.260$   $\chi^2/\text{NDF}$ : 1045.7/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

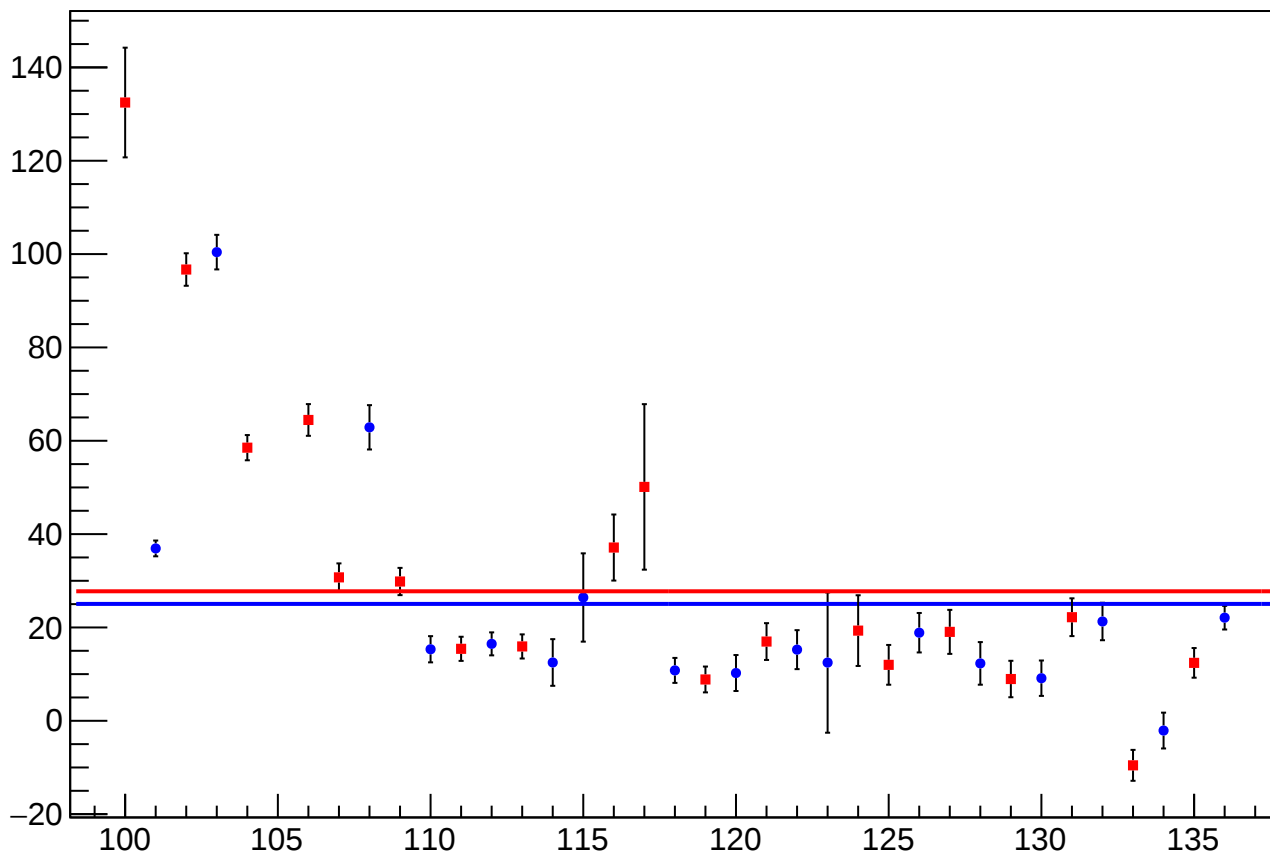
Right Out:  $-61.676 \pm 1.181$   $\chi^2/\text{NDF}$ : 961.4/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-70.382 \pm 1.260$   $\chi^2/\text{NDF}$ : 1045.7/16

$-61.676 \pm 1.181$   $\chi^2/\text{NDF}$ : 961.4/18

# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug



Right In: 25.045+/-0.806  $\chi^2$ /NDF: 686.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

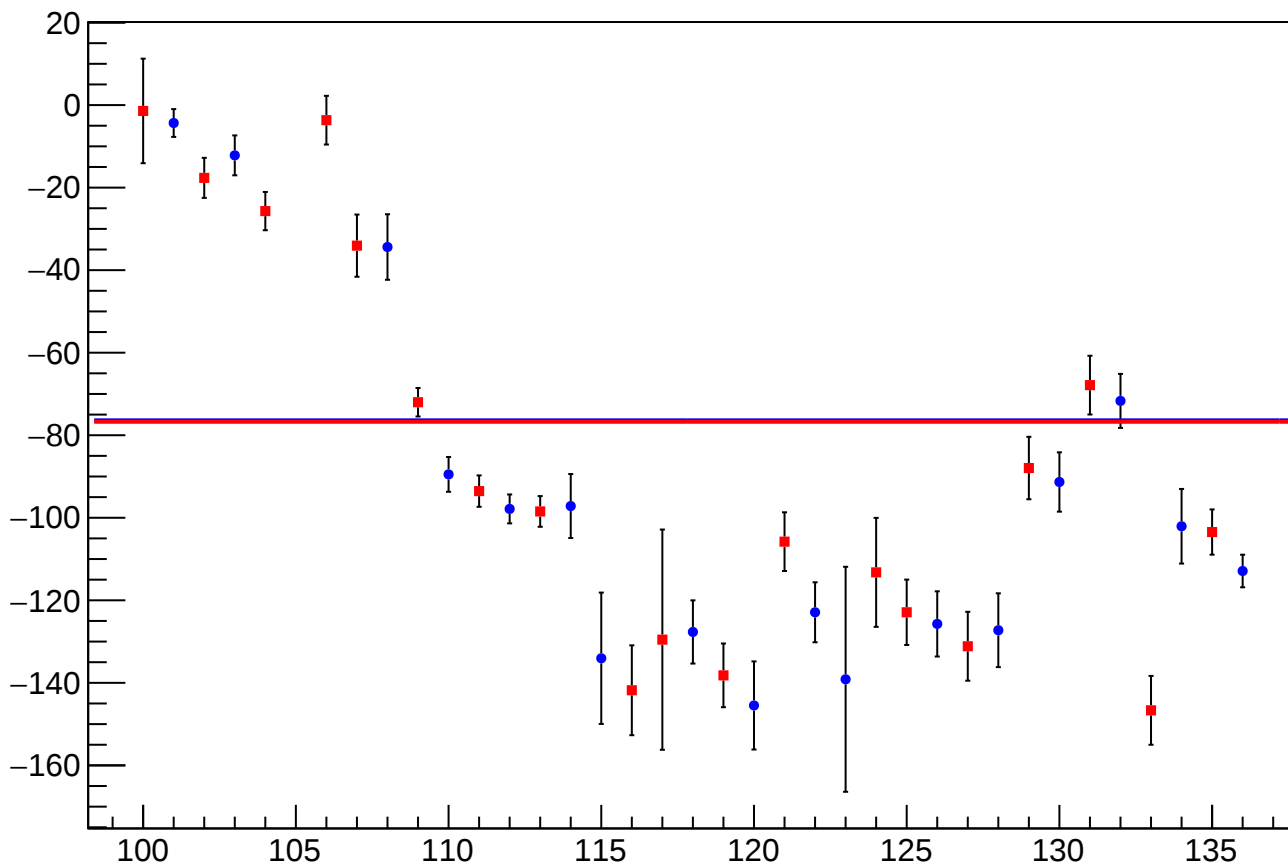
Right Out: 27.751+/-0.818  $\chi^2$ /NDF: 1013.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

25.045+/-0.806  $\chi^2$ /NDF: 686.4/16

27.751+/-0.818  $\chi^2$ /NDF: 1013.3/18

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In: -76.392+/-1.416  $\chi^2/\text{NDF}$ : 1031.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

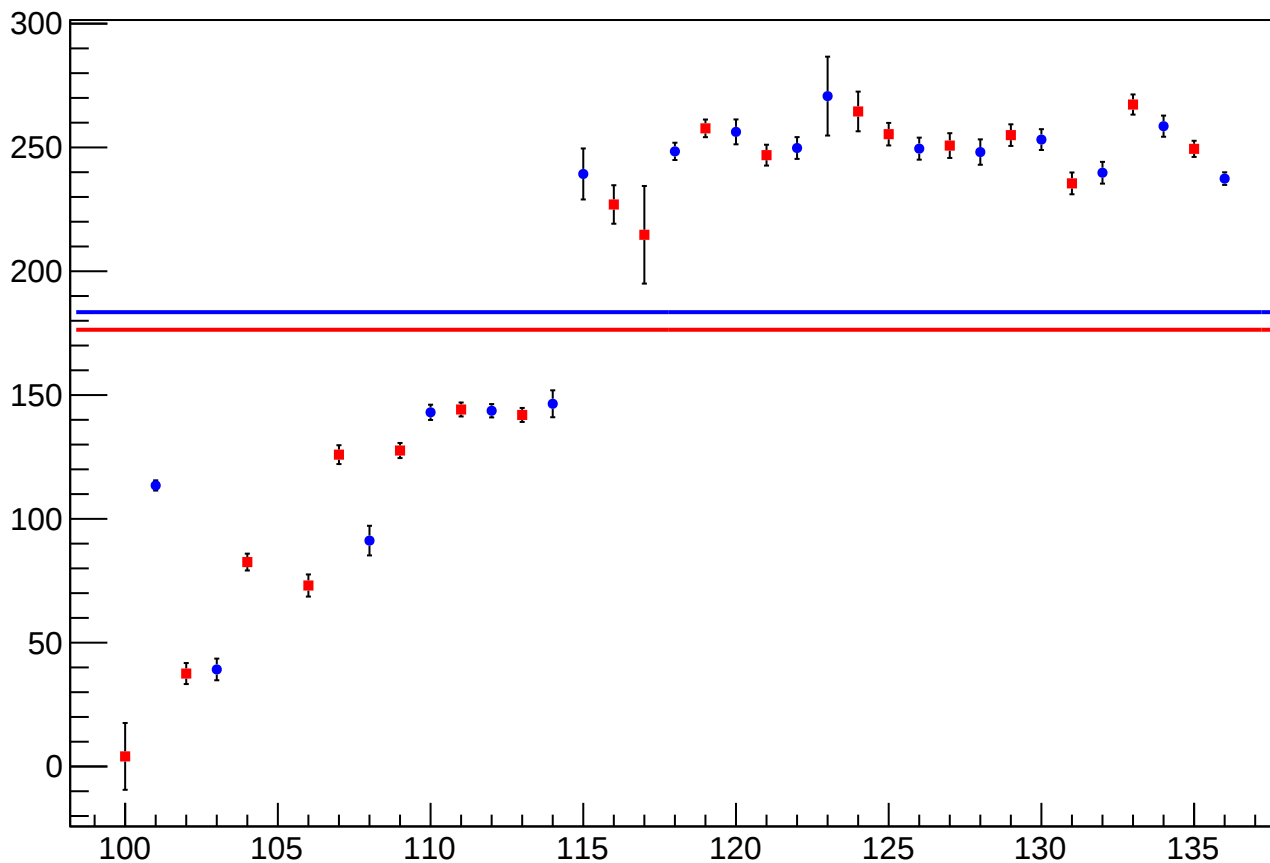
Right Out: -76.736+/-1.368  $\chi^2/\text{NDF}$ : 847.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-76.392+/-1.416  $\chi^2/\text{NDF}$ : 1031.9/16

-76.736+/-1.368  $\chi^2/\text{NDF}$ : 847.6/18

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 183.478+/-0.919  $\chi^2/\text{NDF}$ : 5331.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

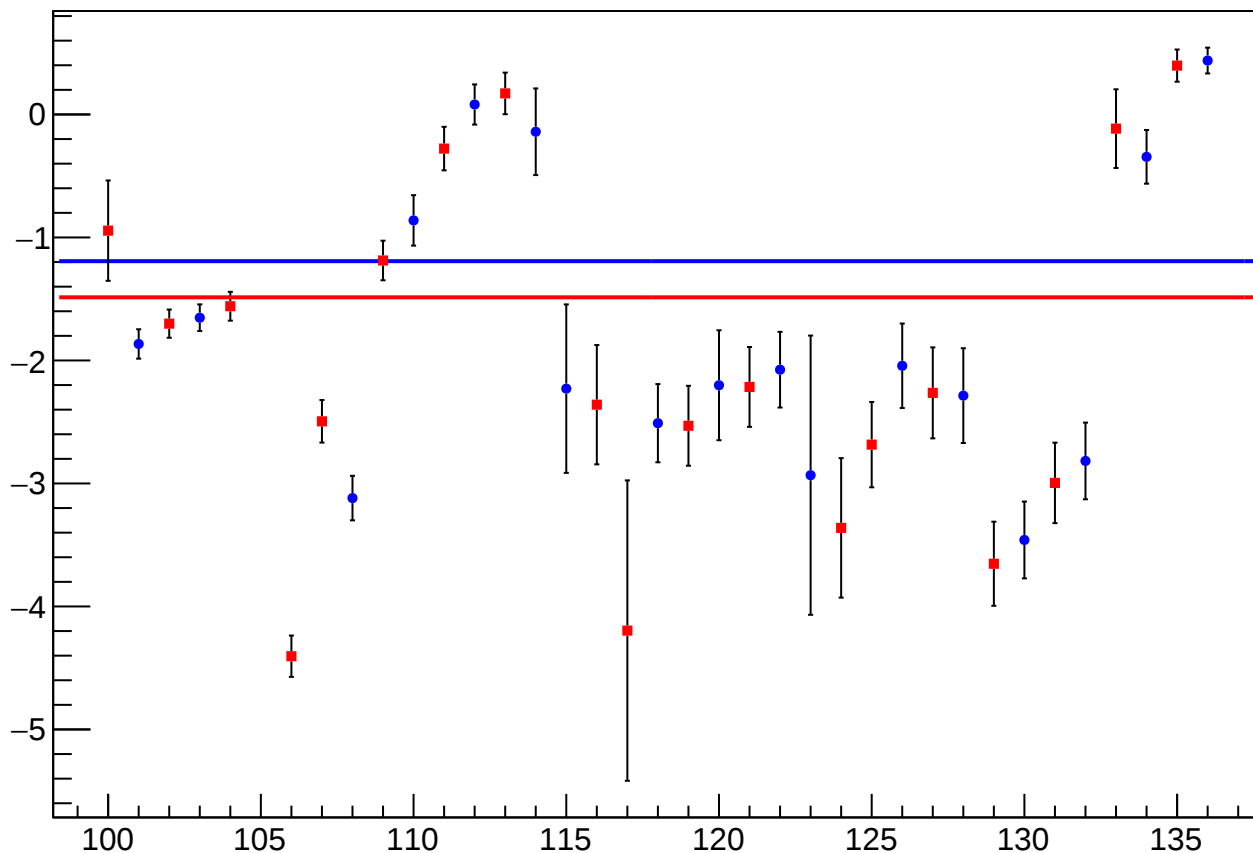
Right Out: 176.370+/-0.936  $\chi^2/\text{NDF}$ : 6230.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

183.478+/-0.919  $\chi^2/\text{NDF}$ : 5331.4/16

176.370+/-0.936  $\chi^2/\text{NDF}$ : 6230.1/18

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In: -1.193+/-0.048  $\chi^2/\text{NDF}$ : 621.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

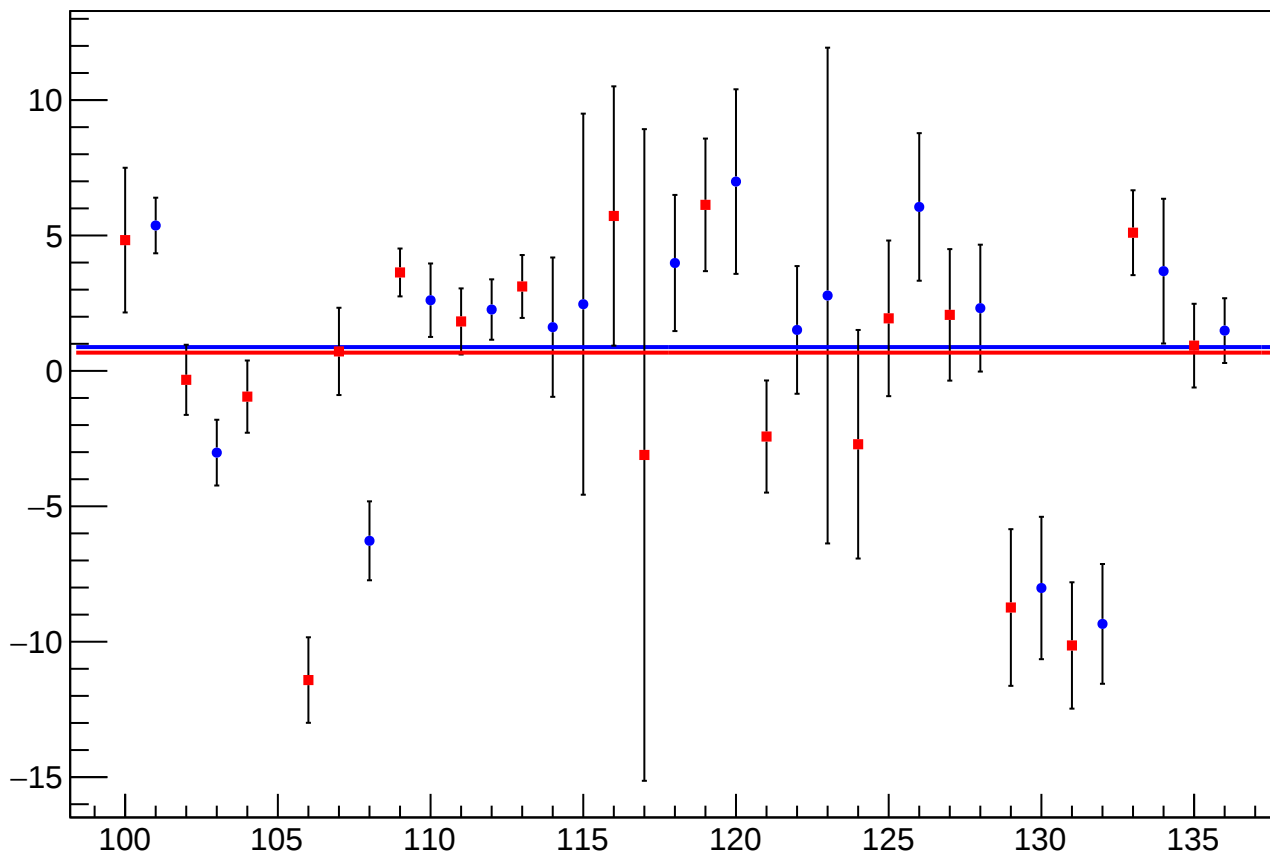
Right Out: -1.487+/-0.047  $\chi^2/\text{NDF}$ : 825.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.193+/-0.048  $\chi^2/\text{NDF}$ : 621.7/16

-1.487+/-0.047  $\chi^2/\text{NDF}$ : 825.5/18

# reg\_asym\_sam5\_diff\_bpm4aX\_slope vs Slug



Right In: 0.879+/-0.424  $\chi^2/\text{NDF}$ : 99.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

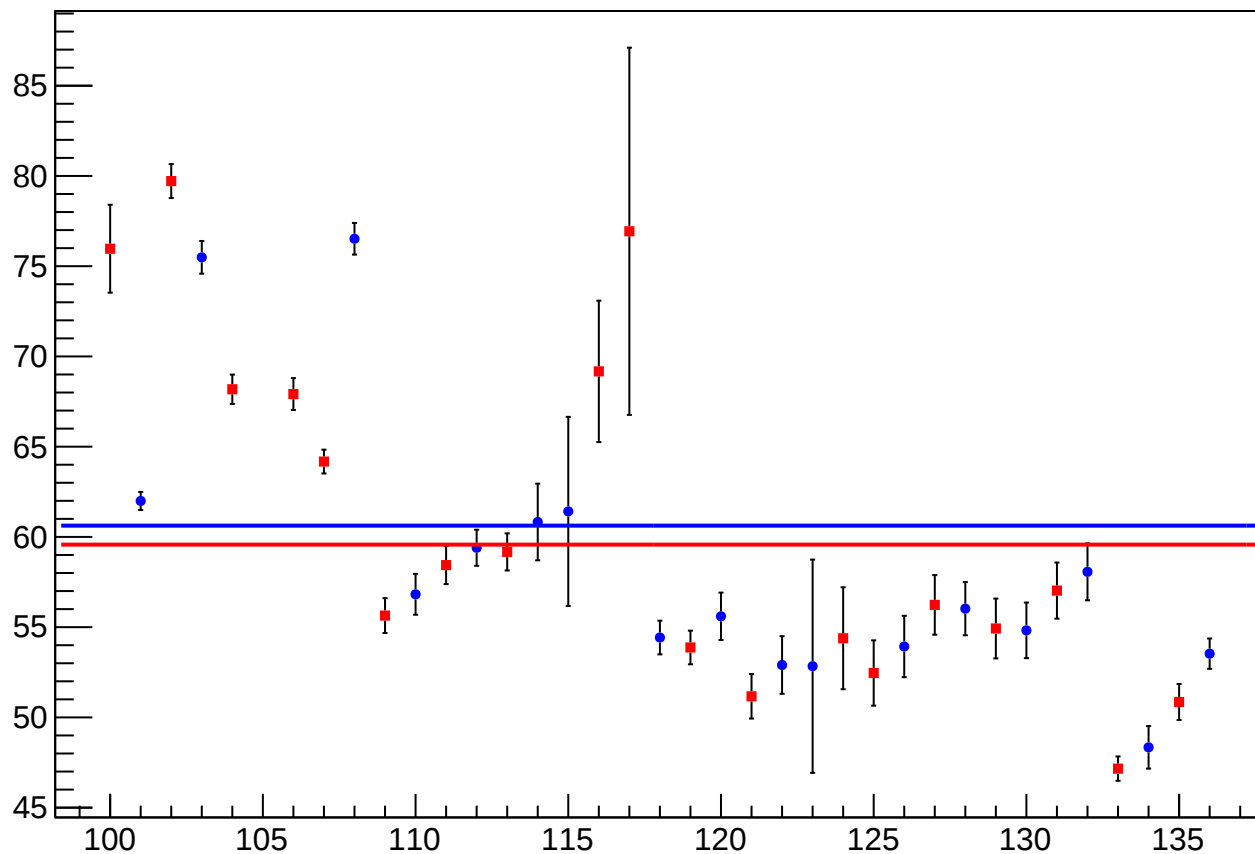
Right Out: 0.674+/-0.386  $\chi^2/\text{NDF}$ : 129.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.879+/-0.424  $\chi^2/\text{NDF}$ : 99.8/16

0.674+/-0.386  $\chi^2/\text{NDF}$ : 129.3/18

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



Right In: 60.625+/-0.263  $\chi^2$ /NDF: 924.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

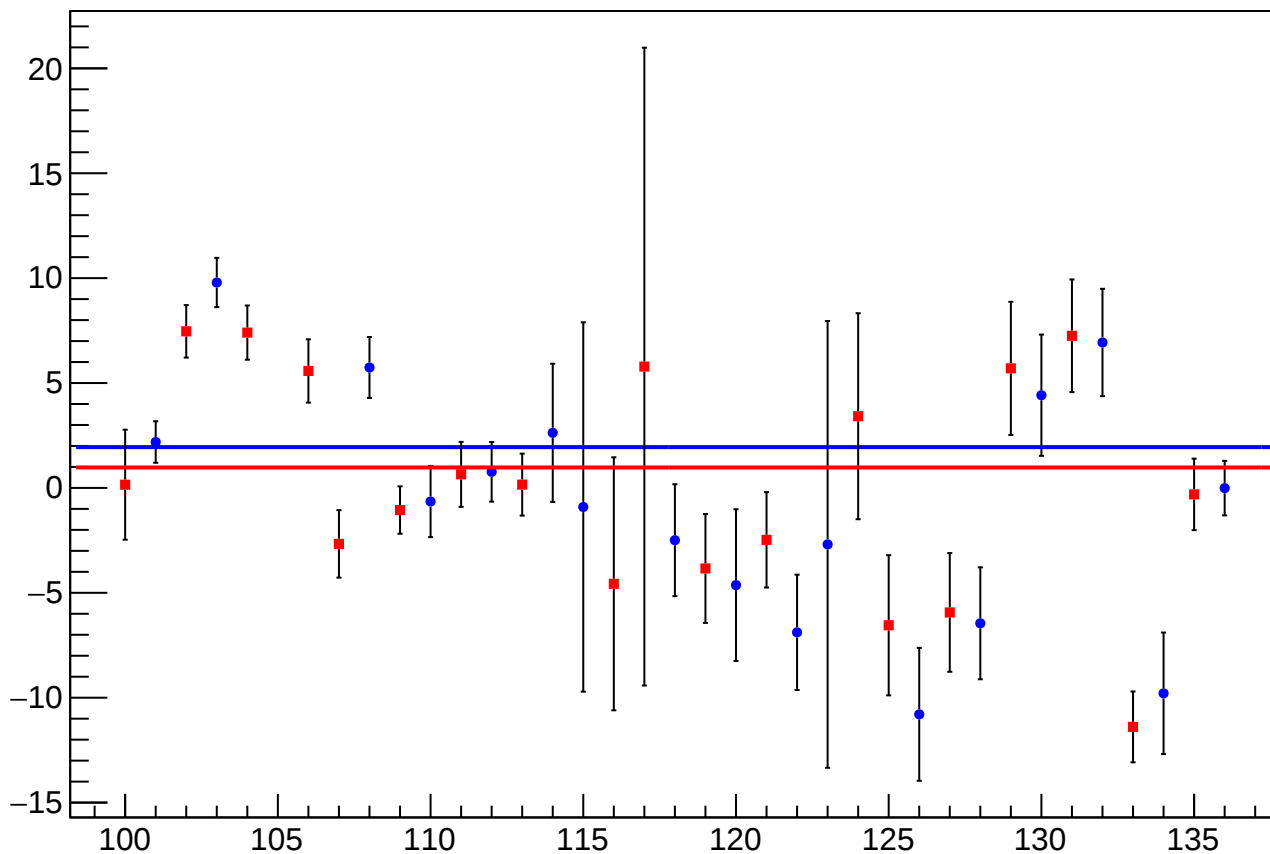
Right Out: 59.573+/-0.250  $\chi^2$ /NDF: 1313.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

60.625+/-0.263  $\chi^2$ /NDF: 924.6/16

59.573+/-0.250  $\chi^2$ /NDF: 1313.3/18

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In: 1.945+/-0.459  $\chi^2/\text{NDF}$ : 120.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

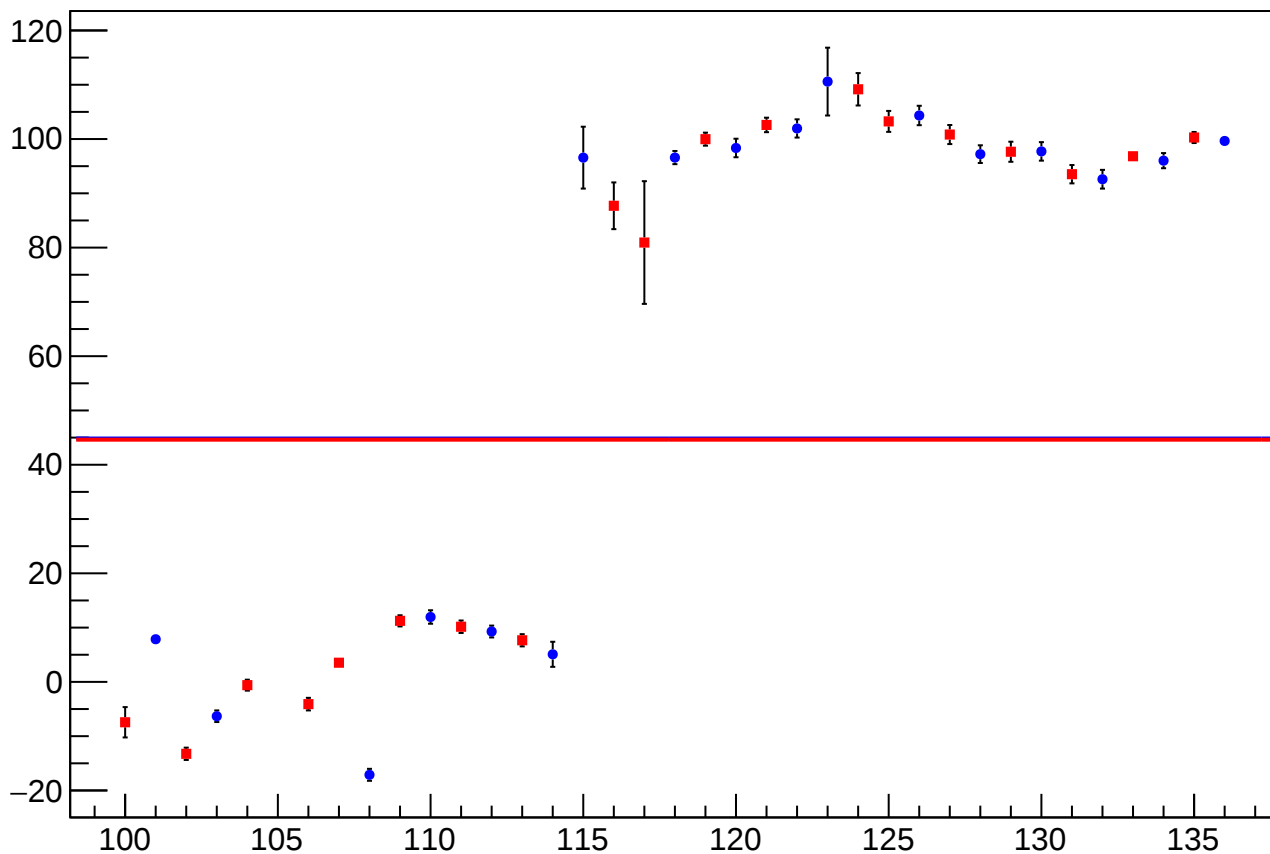
Right Out: 0.975+/-0.429  $\chi^2/\text{NDF}$ : 149.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.945+/-0.459  $\chi^2/\text{NDF}$ : 120.6/16

0.975+/-0.429  $\chi^2/\text{NDF}$ : 149.6/18

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 44.829+/-0.305  $\chi^2$ /NDF: 24763.1/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

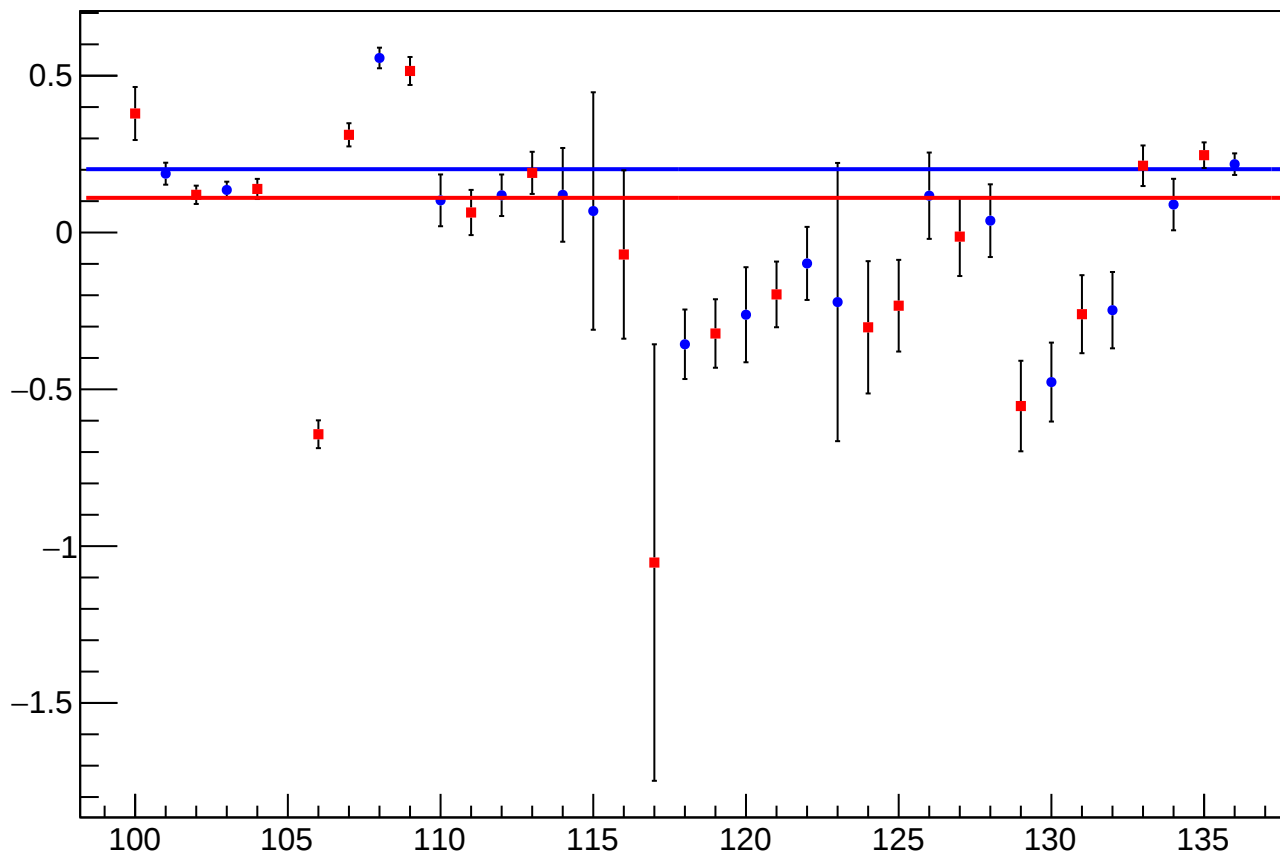
44.829+/-0.305  $\chi^2$ /NDF: 24763.1/16

Right Out: 44.617+/-0.293  $\chi^2$ /NDF: 27319.8/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

44.617+/-0.293  $\chi^2$ /NDF: 27319.8/18

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In: 0.202 $\pm$ 0.014  $\chi^2$ /NDF: 216.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

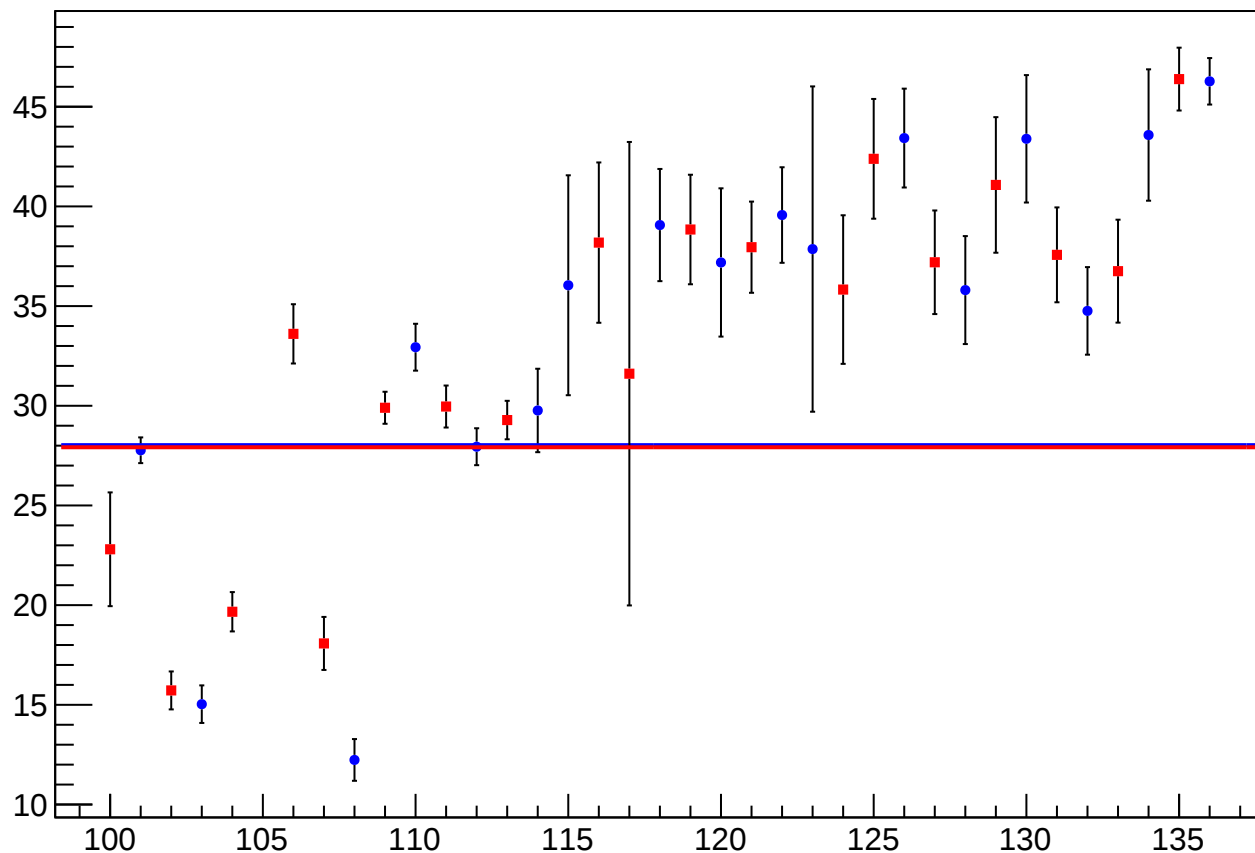
Right Out: 0.111 $\pm$ 0.013  $\chi^2$ /NDF: 495.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.202 $\pm$ 0.014  $\chi^2$ /NDF: 216.0/16

0.111 $\pm$ 0.013  $\chi^2$ /NDF: 495.2/18

# reg\_asym\_sam6\_diff\_bpm4aX\_slope vs Slug



Right In: 28.025+/-0.345  $\chi^2$ /NDF: 831.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

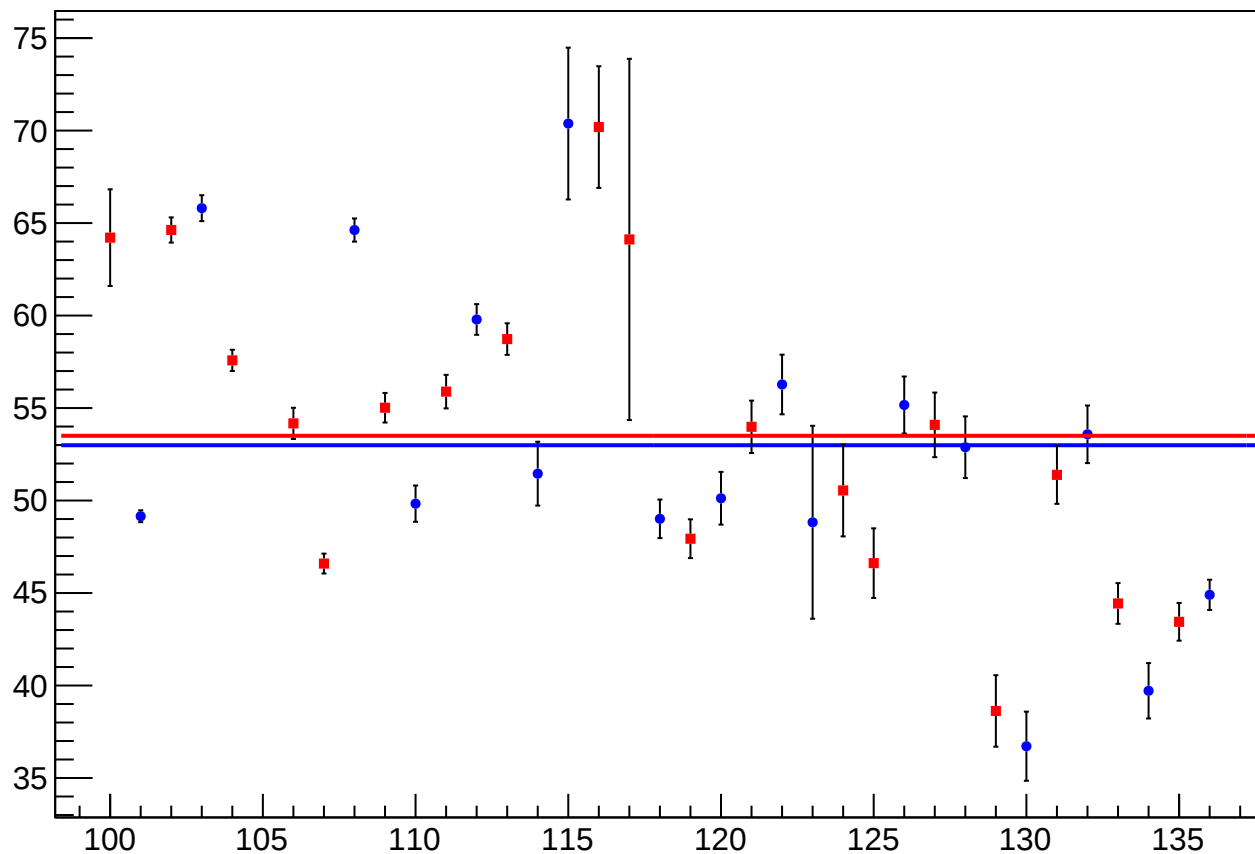
Right Out: 27.919+/-0.346  $\chi^2$ /NDF: 581.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

28.025+/-0.345  $\chi^2$ /NDF: 831.0/16

27.919+/-0.346  $\chi^2$ /NDF: 581.1/18

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In: 52.989+/-0.211  $\chi^2/\text{NDF}$ : 1198.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

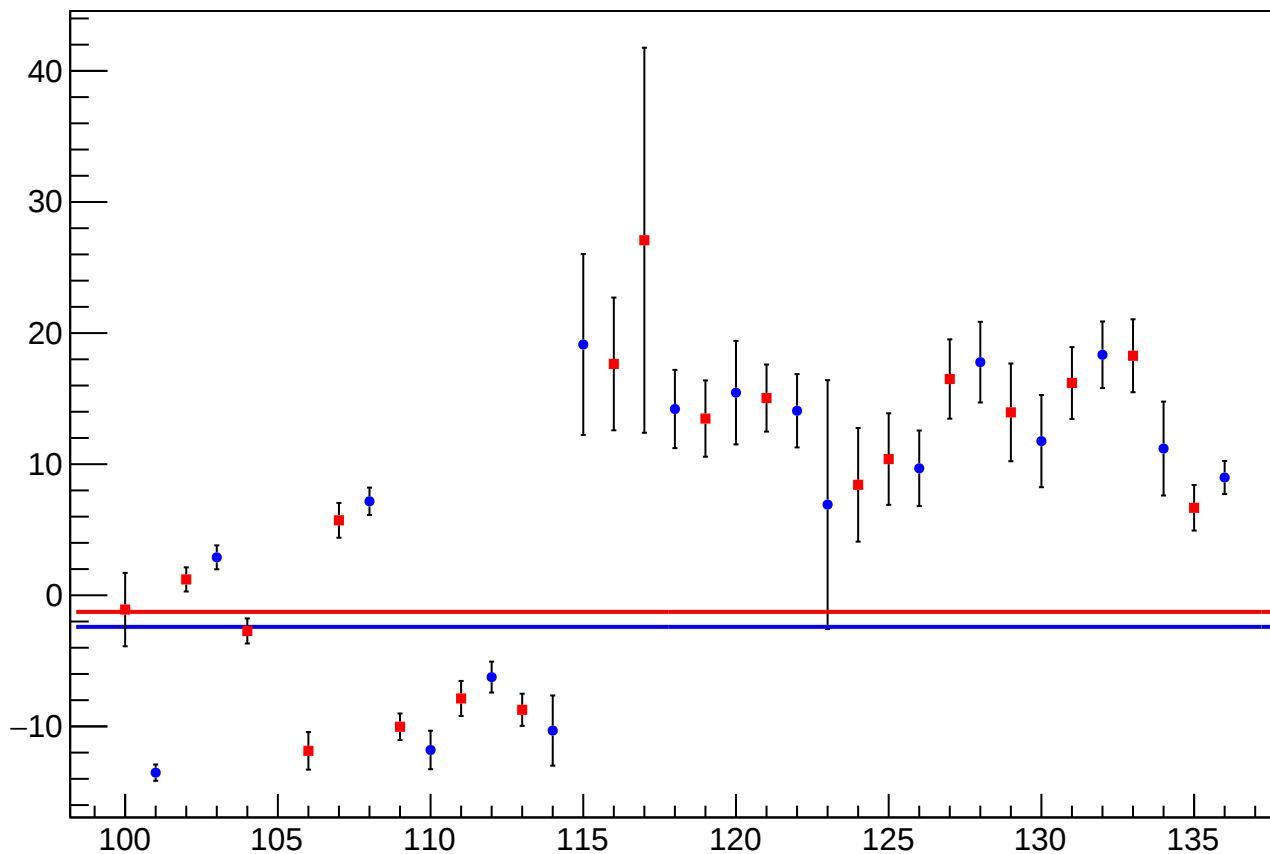
Right Out: 53.500+/-0.229  $\chi^2/\text{NDF}$ : 843.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

52.989+/-0.211  $\chi^2/\text{NDF}$ : 1198.0/16

53.500+/-0.229  $\chi^2/\text{NDF}$ : 843.7/18

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In: -2.409+/-0.364  $\chi^2/\text{NDF}$ : 834.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

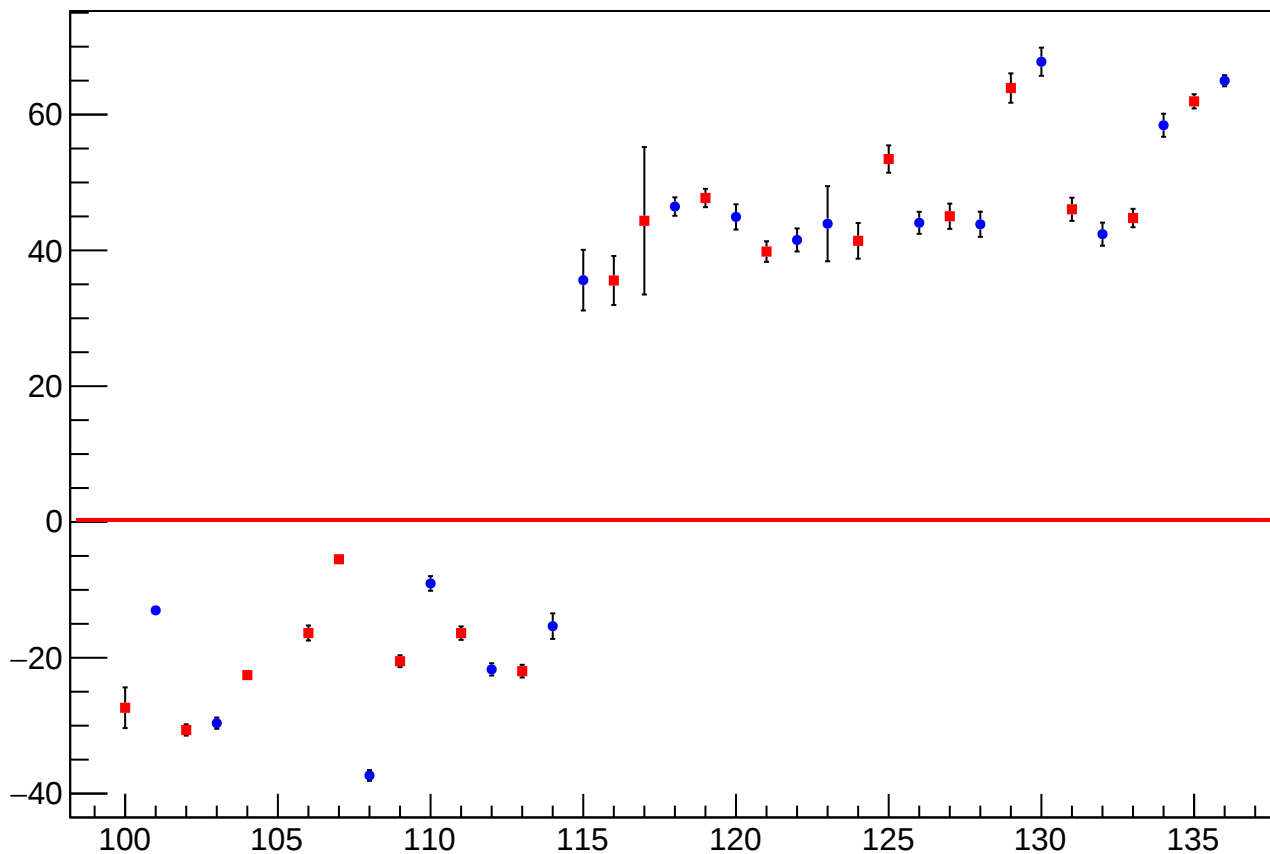
Right Out: -1.266+/-0.381  $\chi^2/\text{NDF}$ : 491.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.409+/-0.364  $\chi^2/\text{NDF}$ : 834.6/16

-1.266+/-0.381  $\chi^2/\text{NDF}$ : 491.0/18

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In: 0.300+/-0.247  $\chi^2/\text{NDF}$ : 18259.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

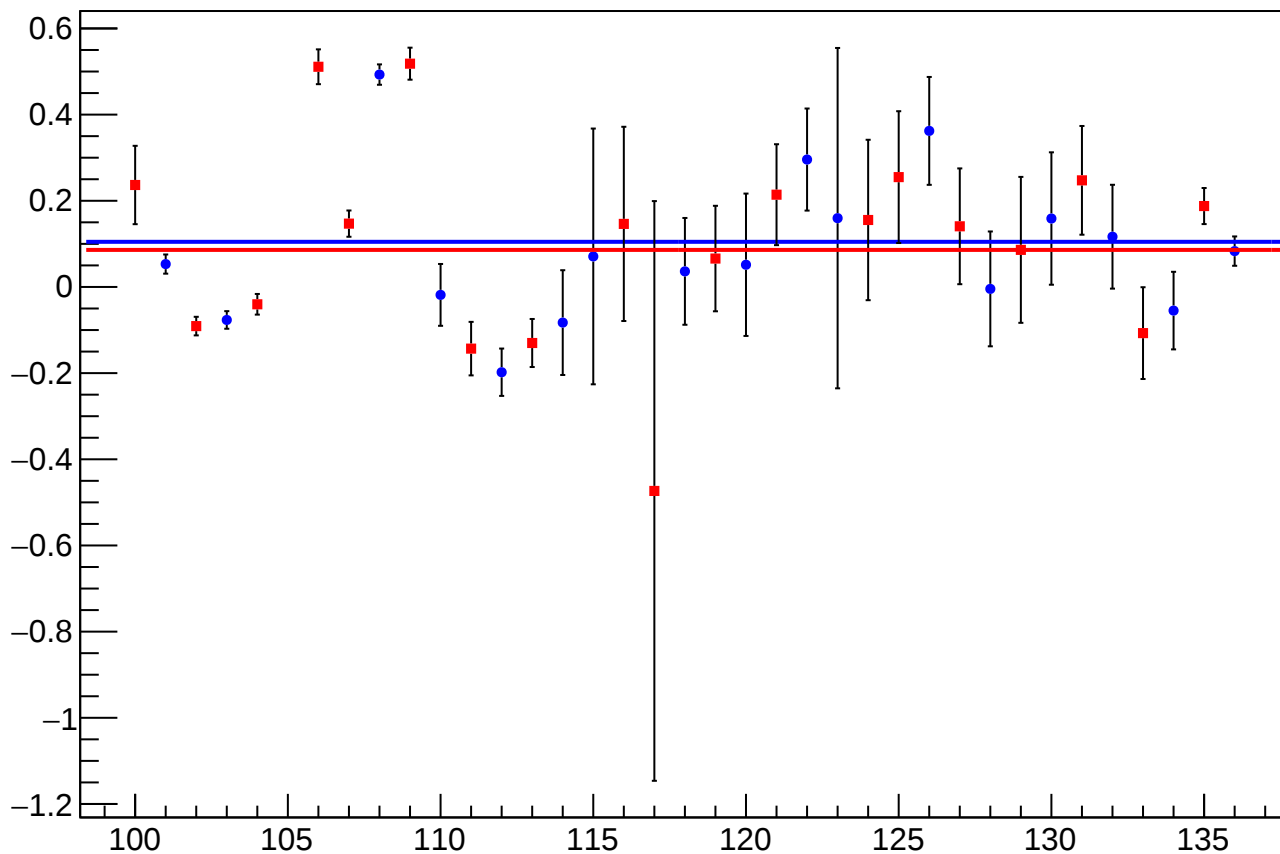
Right Out: 0.292+/-0.270  $\chi^2/\text{NDF}$ : 13911.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.300+/-0.247  $\chi^2/\text{NDF}$ : 18259.2/16

0.292+/-0.270  $\chi^2/\text{NDF}$ : 13911.5/18

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In: 0.105+/-0.011  $\chi^2/\text{NDF}$ : 400.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

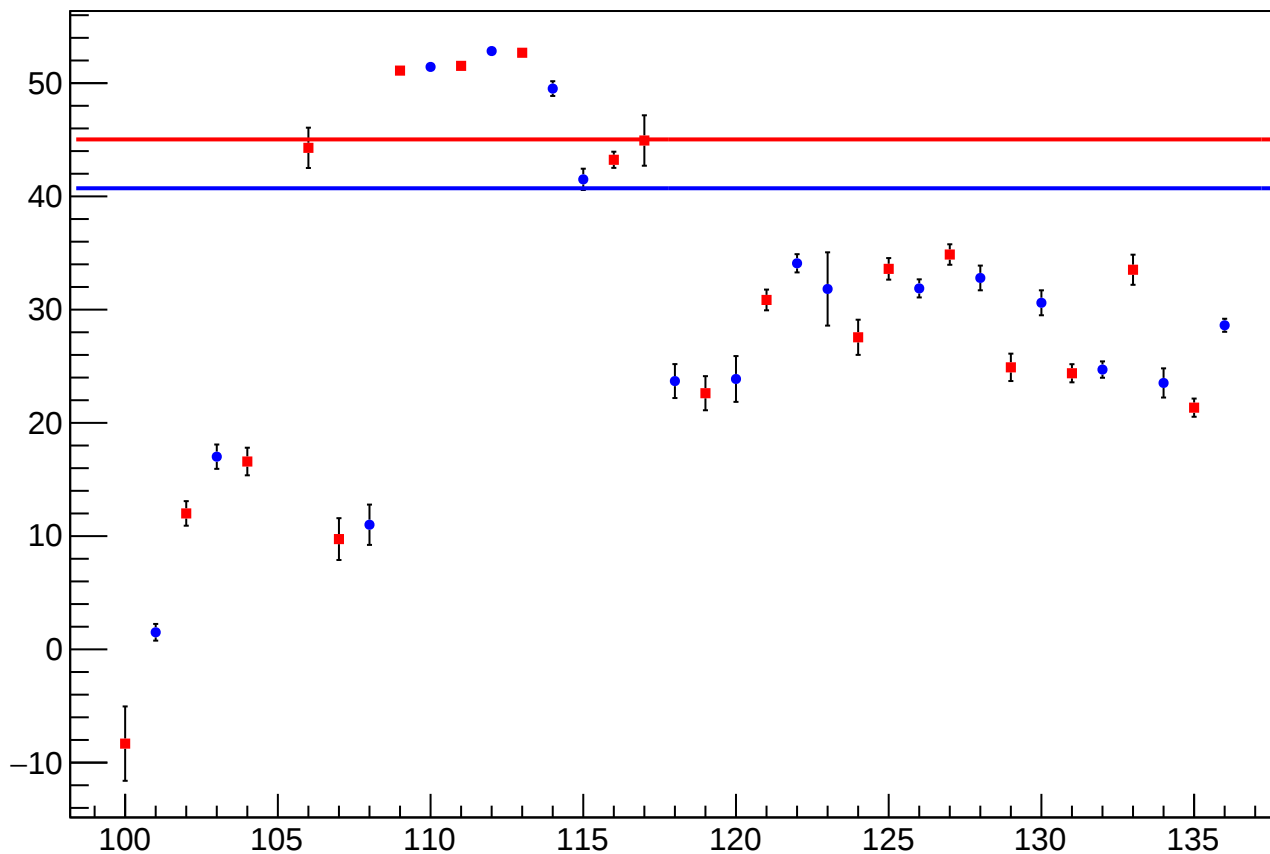
Right Out: 0.086+/-0.011  $\chi^2/\text{NDF}$ : 390.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.105+/-0.011  $\chi^2/\text{NDF}$ : 400.8/16

0.086+/-0.011  $\chi^2/\text{NDF}$ : 390.7/18

# reg\_asym\_sam7\_diff\_bpm4aX\_slope vs Slug



Right In: 40.717+/-0.167  $\chi^2$ /NDF: 7858.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

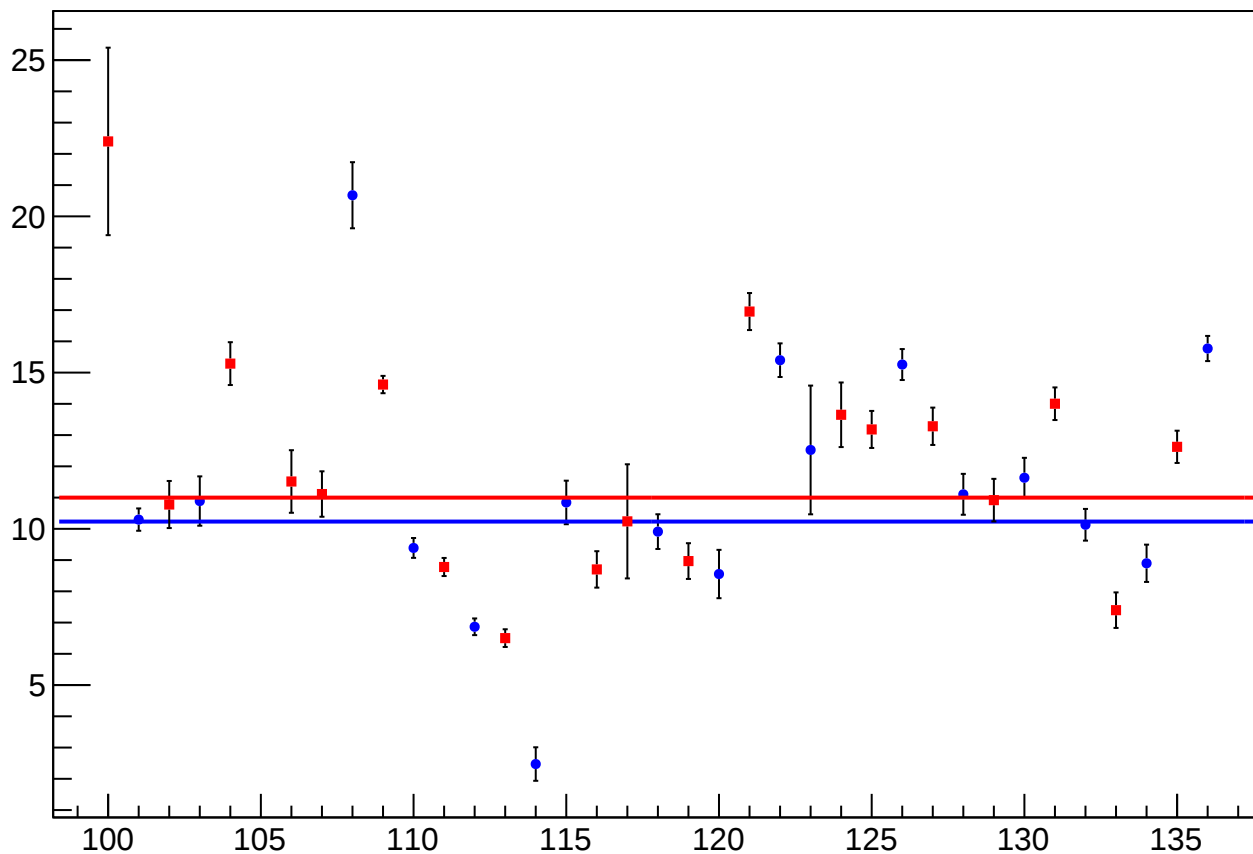
40.717+/-0.167  $\chi^2$ /NDF: 7858.5/16

Right Out: 45.031+/-0.149  $\chi^2$ /NDF: 6298.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

45.031+/-0.149  $\chi^2$ /NDF: 6298.7/18

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug



Right In: 10.232+/-0.119  $\chi^2/\text{NDF}$ : 876.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

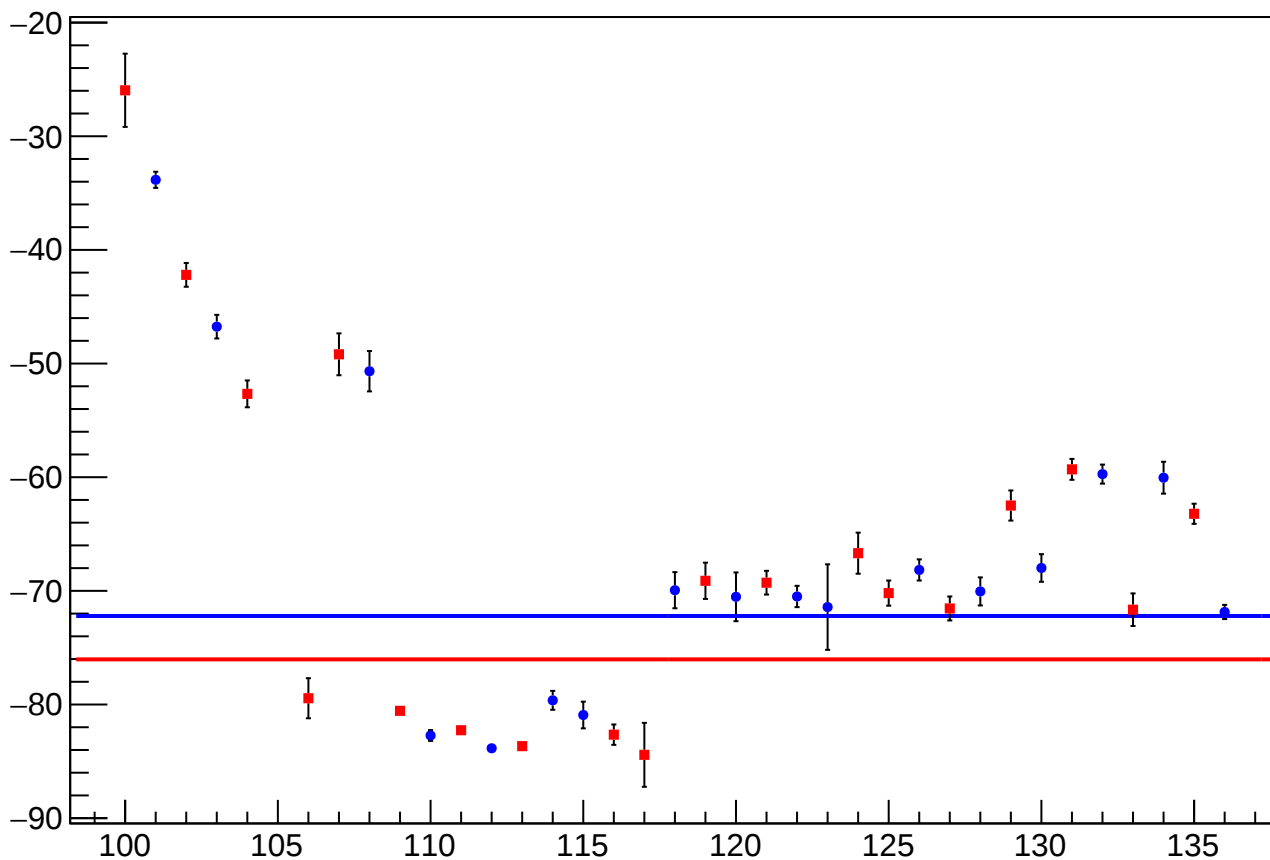
Right Out: 10.999+/-0.117  $\chi^2/\text{NDF}$ : 782.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.232+/-0.119  $\chi^2/\text{NDF}$ : 876.7/16

10.999+/-0.117  $\chi^2/\text{NDF}$ : 782.3/18

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In: -72.211+/-0.198  $\chi^2/\text{NDF}$ : 5566.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

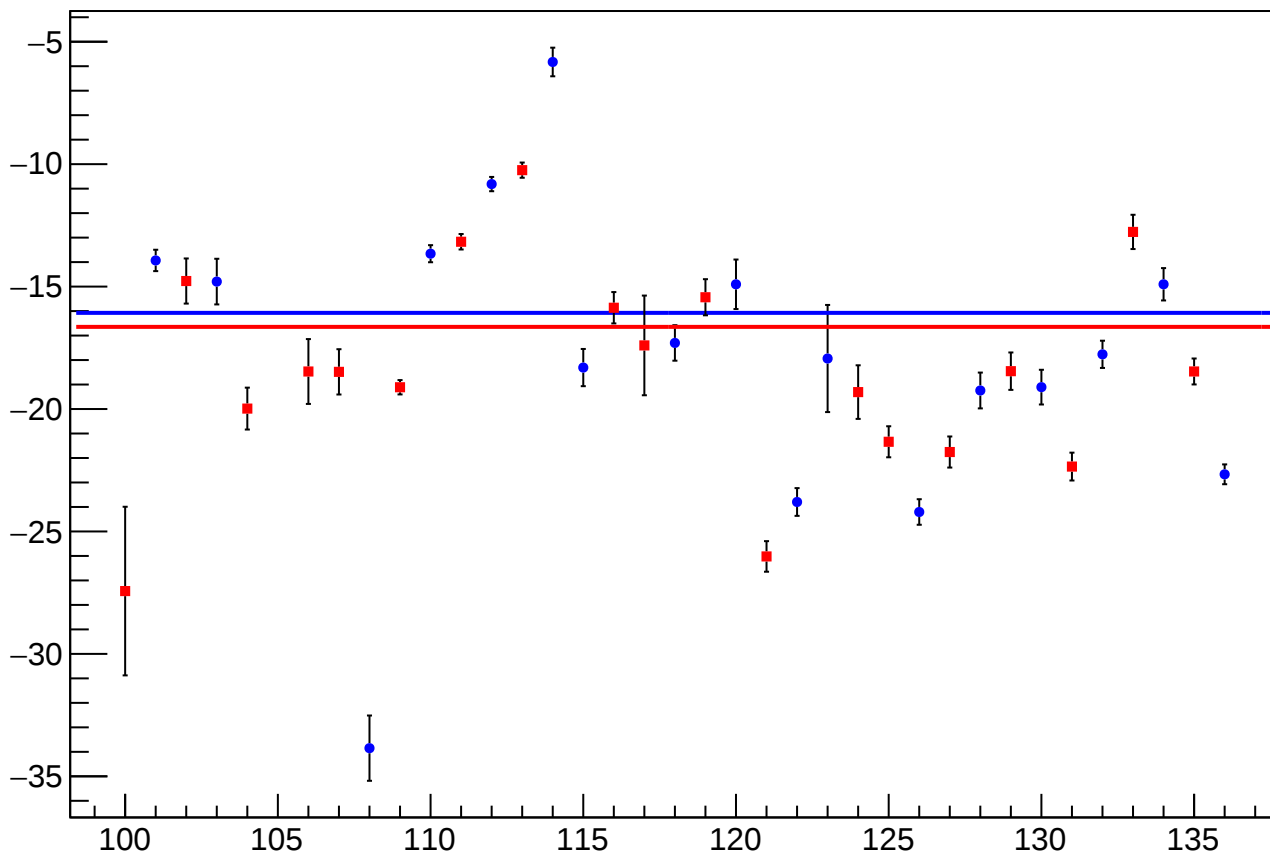
Right Out: -76.028+/-0.182  $\chi^2/\text{NDF}$ : 3471.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-72.211+/-0.198  $\chi^2/\text{NDF}$ : 5566.2/16

-76.028+/-0.182  $\chi^2/\text{NDF}$ : 3471.8/18

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In:  $-16.073 \pm 0.133$   $\chi^2/\text{NDF}: 1640.5/16$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

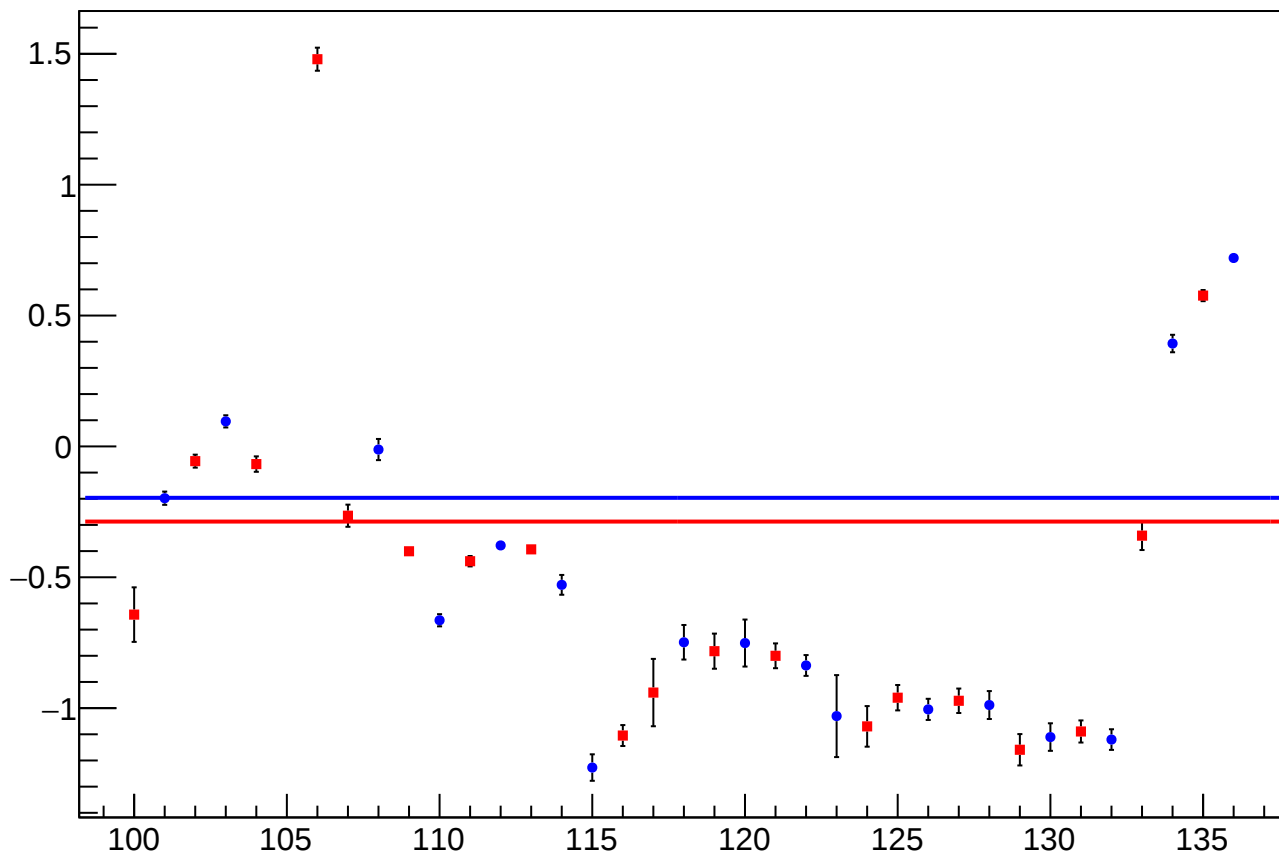
$-16.073 \pm 0.133$   $\chi^2/\text{NDF}: 1640.5/16$

Right Out:  $-16.645 \pm 0.129$   $\chi^2/\text{NDF}: 1155.9/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-16.645 \pm 0.129$   $\chi^2/\text{NDF}: 1155.9/18$

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.196 \pm 0.008$   $\chi^2/\text{NDF}$ : 6323.5/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

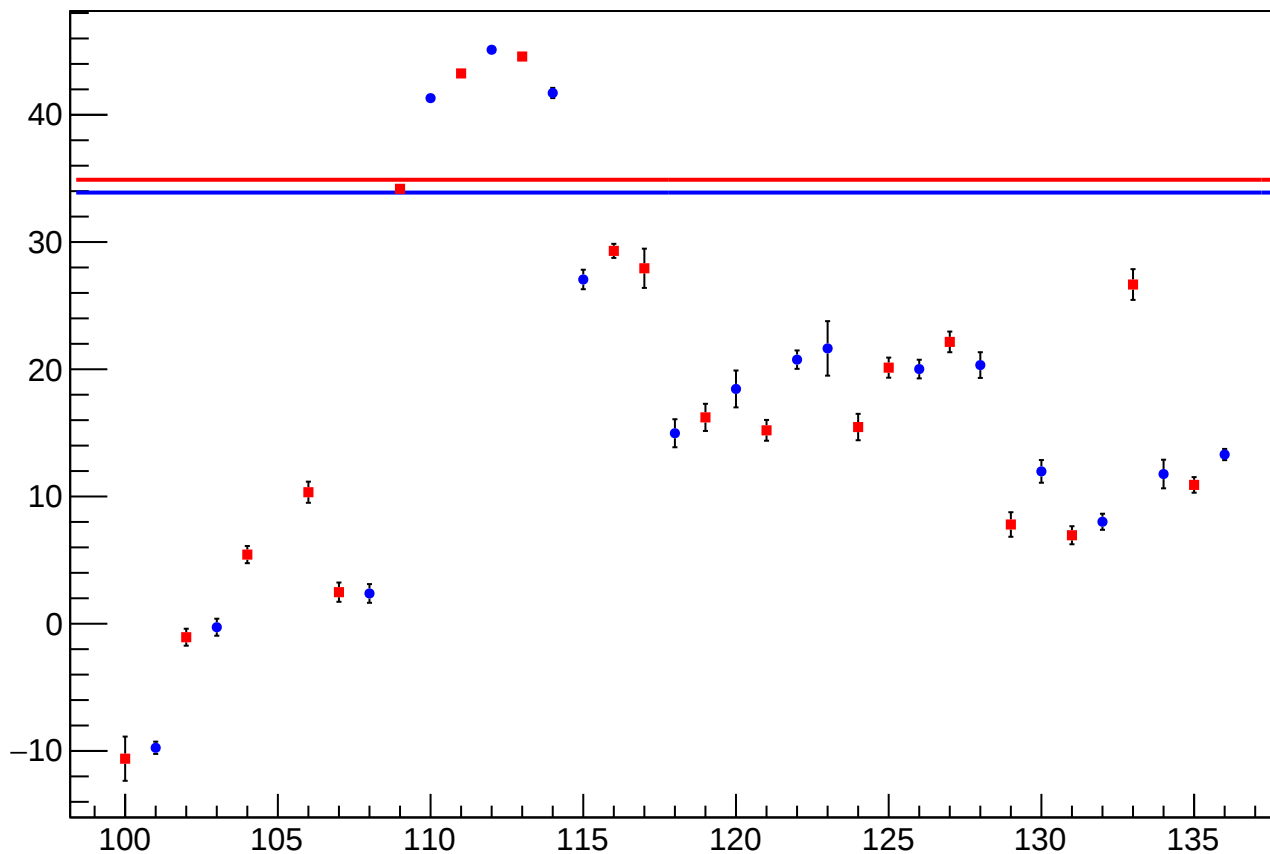
Right Out:  $-0.287 \pm 0.007$   $\chi^2/\text{NDF}$ : 5236.9/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.196 \pm 0.008$   $\chi^2/\text{NDF}$ : 6323.5/16

$-0.287 \pm 0.007$   $\chi^2/\text{NDF}$ : 5236.9/18

# reg\_asym\_sam8\_diff\_bpm4aX\_slope vs Slug



Right In: 33.888 $\pm$ 0.104  $\chi^2$ /NDF: 25227.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

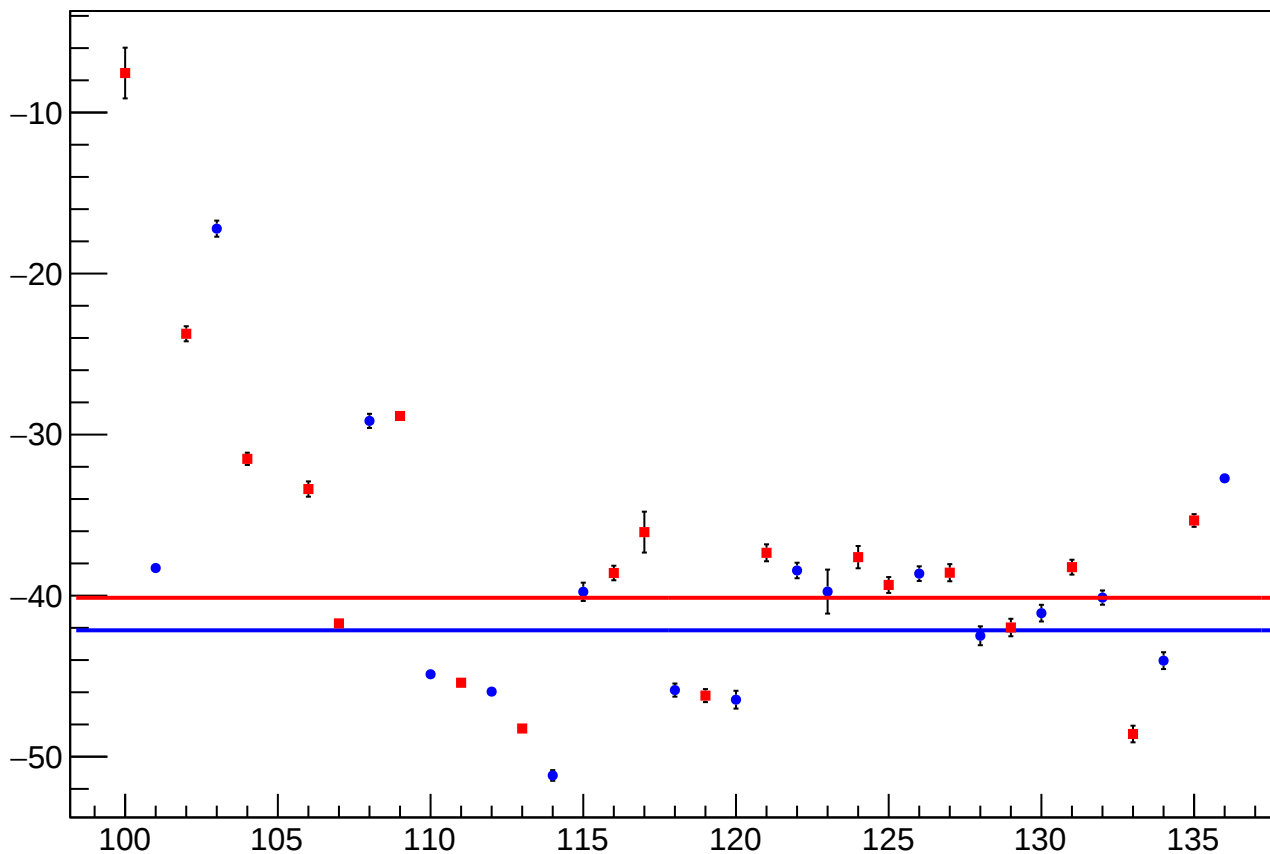
Right Out: 34.895 $\pm$ 0.087  $\chi^2$ /NDF: 19223.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

33.888 $\pm$ 0.104  $\chi^2$ /NDF: 25227.1/16

34.895 $\pm$ 0.087  $\chi^2$ /NDF: 19223.8/18

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug



Right In:  $-42.153 \pm 0.078$   $\chi^2/\text{NDF}$ : 6557.8/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

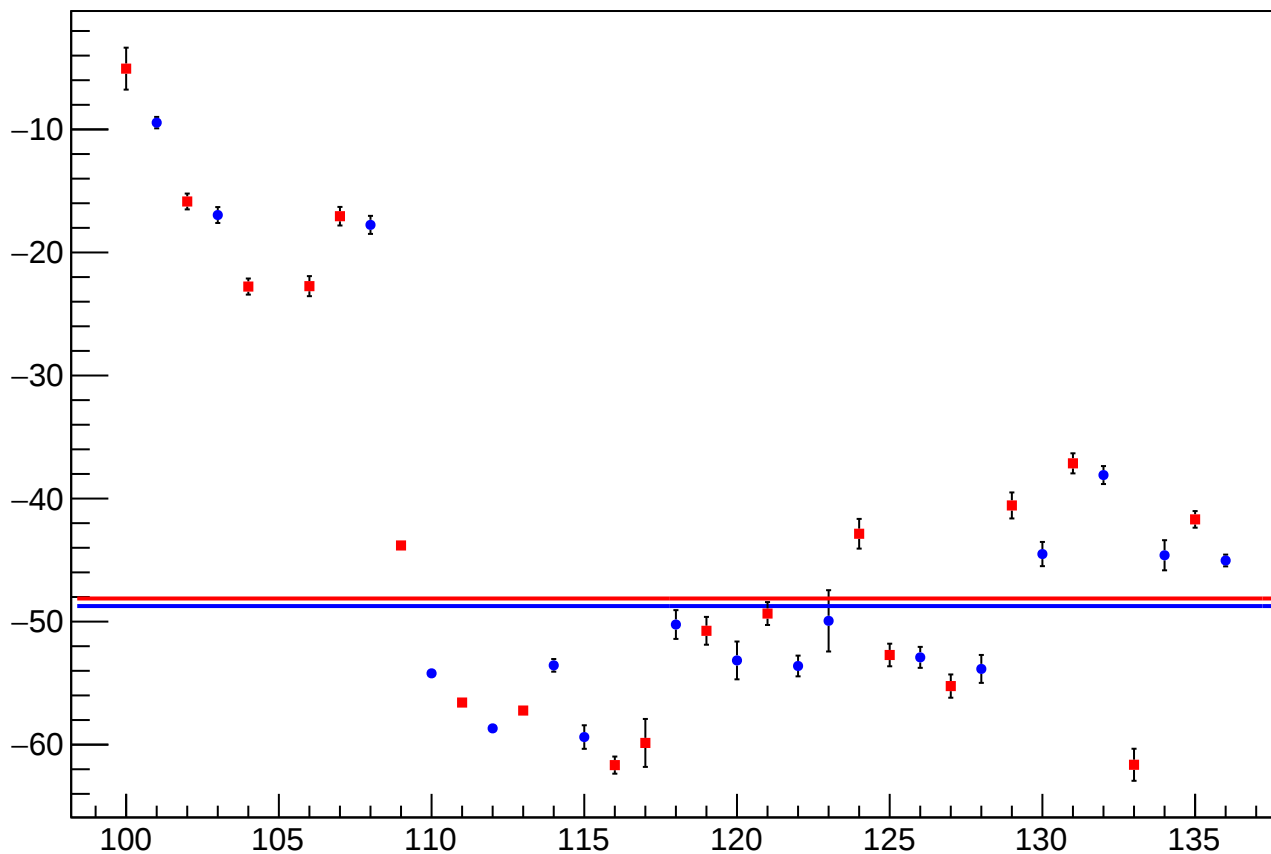
$-42.153 \pm 0.078$   $\chi^2/\text{NDF}$ : 6557.8/16

Right Out:  $-40.134 \pm 0.073$   $\chi^2/\text{NDF}$ : 11226.1/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-40.134 \pm 0.073$   $\chi^2/\text{NDF}$ : 11226.1/18

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In: -48.737 $\pm$ 0.125  $\chi^2$ /NDF: 14658.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

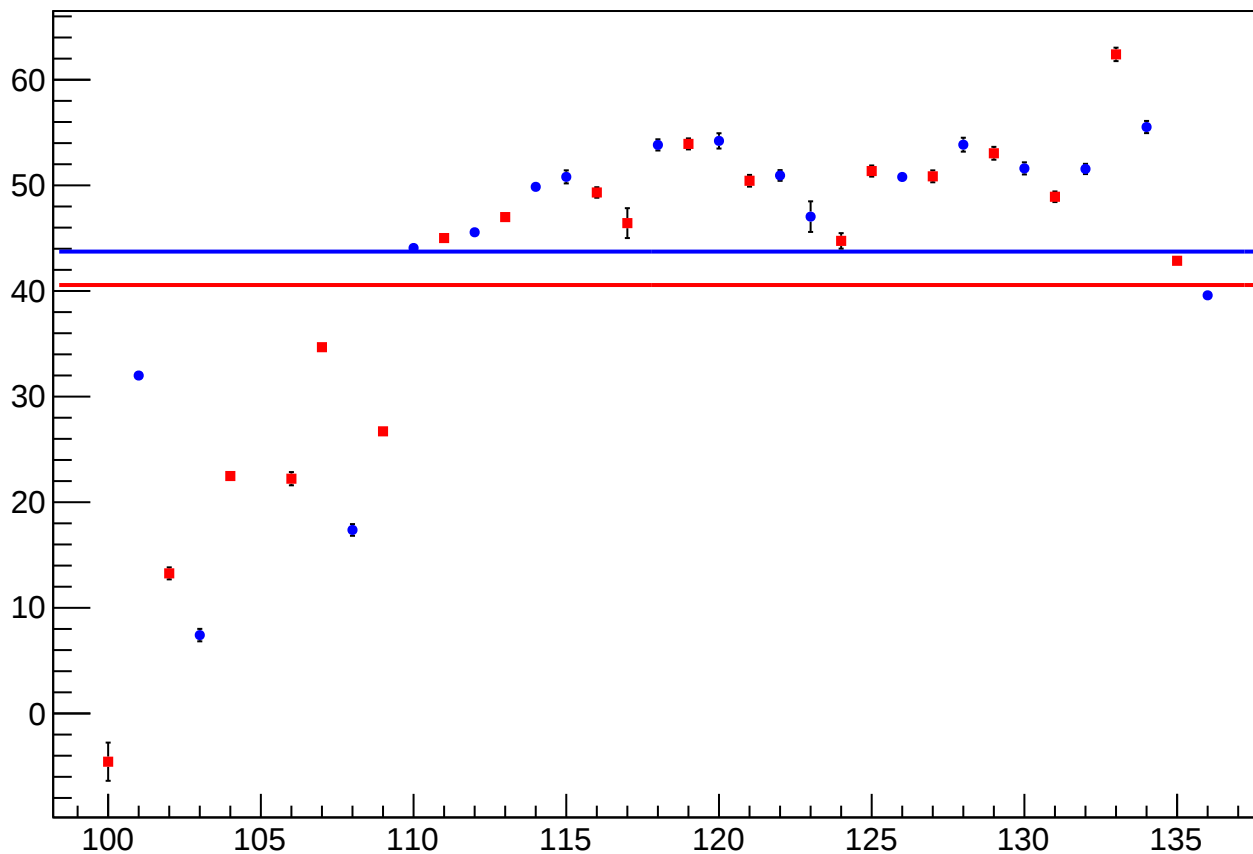
Right Out: -48.122 $\pm$ 0.108  $\chi^2$ /NDF: 11769.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-48.737 $\pm$ 0.125  $\chi^2$ /NDF: 14658.1/16

-48.122 $\pm$ 0.108  $\chi^2$ /NDF: 11769.3/18

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



Right In: 43.731+/-0.087  $\chi^2/\text{NDF}$ : 10567.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

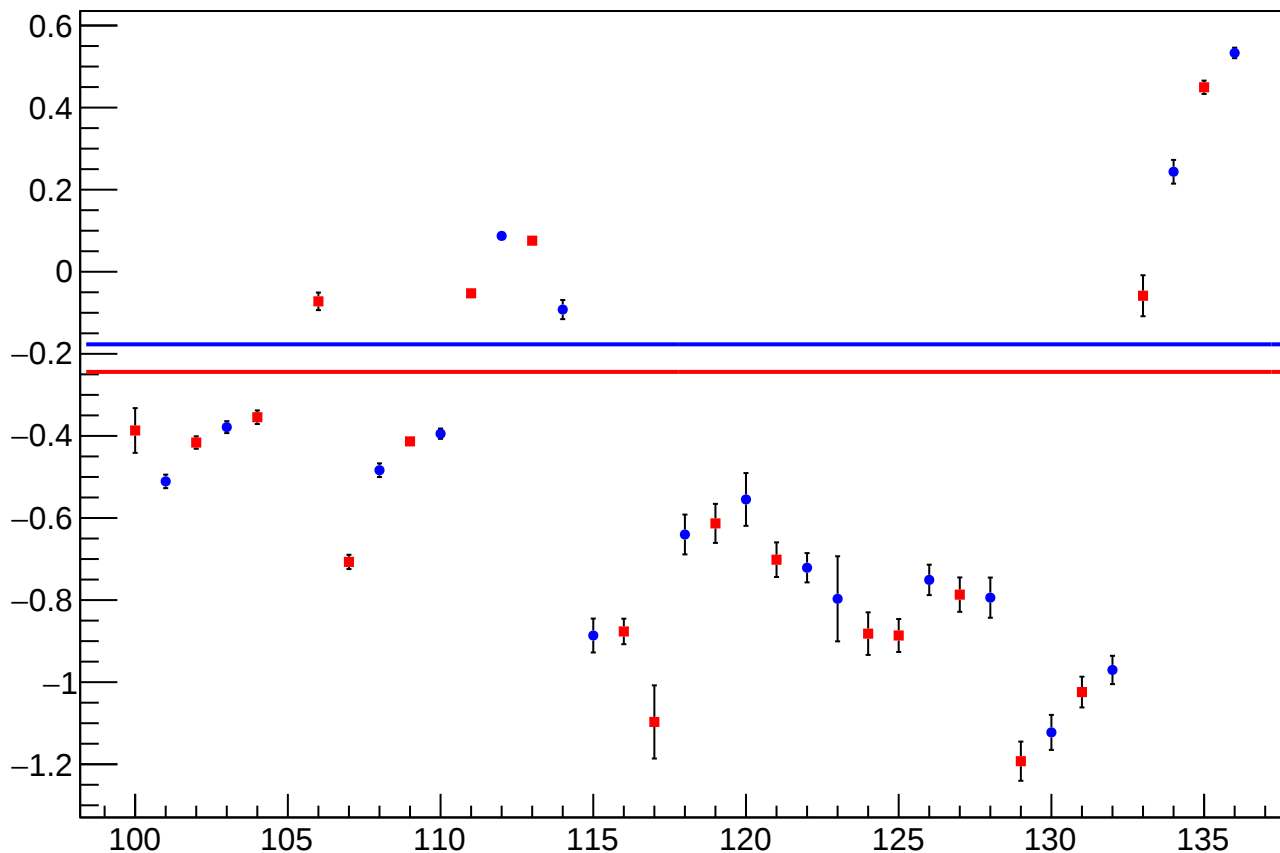
Right Out: 40.565+/-0.081  $\chi^2/\text{NDF}$ : 17617.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

43.731+/-0.087  $\chi^2/\text{NDF}$ : 10567.7/16

40.565+/-0.081  $\chi^2/\text{NDF}$ : 17617.9/18

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In: -0.177+/-0.005  $\chi^2/\text{NDF}$ : 7364.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

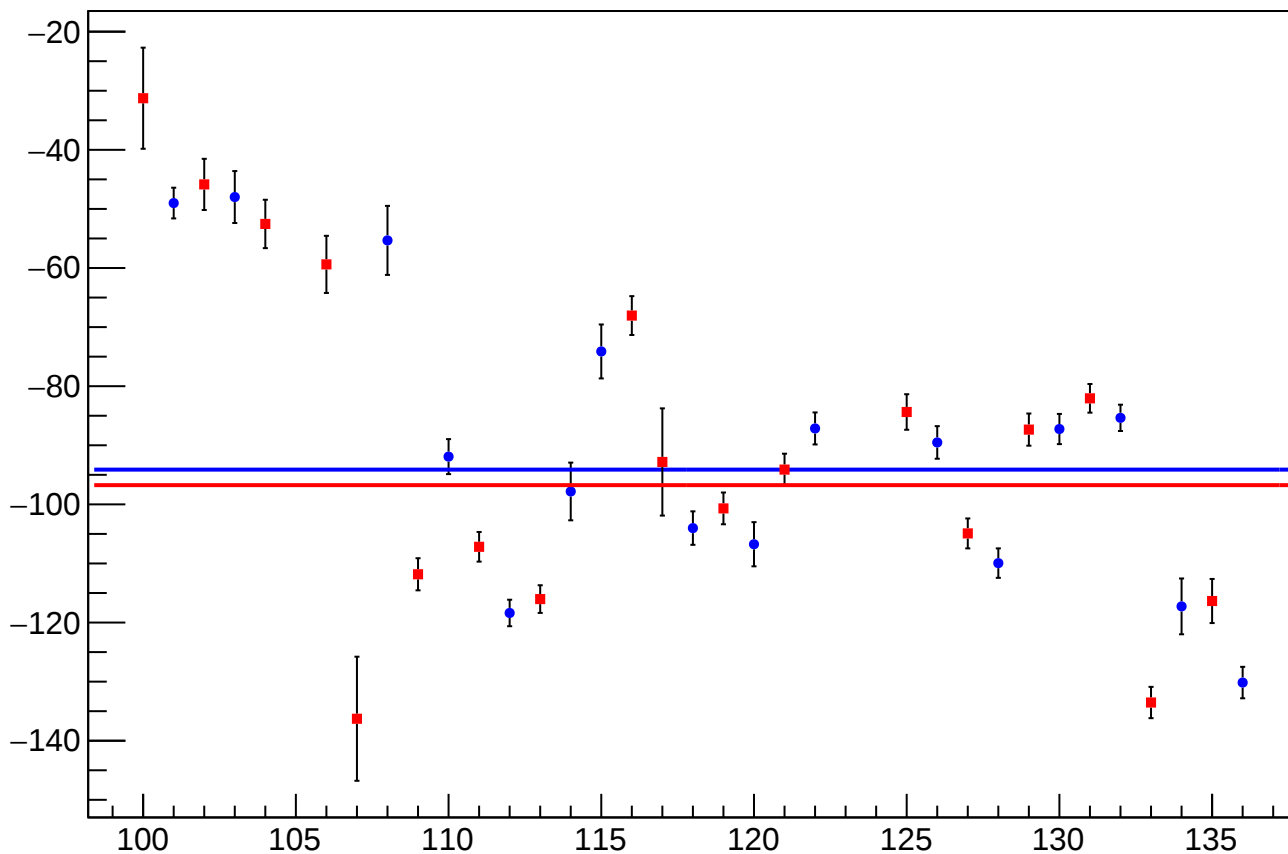
Right Out: -0.244+/-0.004  $\chi^2/\text{NDF}$ : 6462.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.177+/-0.005  $\chi^2/\text{NDF}$ : 7364.7/16

-0.244+/-0.004  $\chi^2/\text{NDF}$ : 6462.3/18

# reg\_asym\_usl\_diff\_bpm4aX\_slope vs Slug



Right In: -94.119+/-0.746  $\chi^2/\text{NDF}$ : 896.3/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

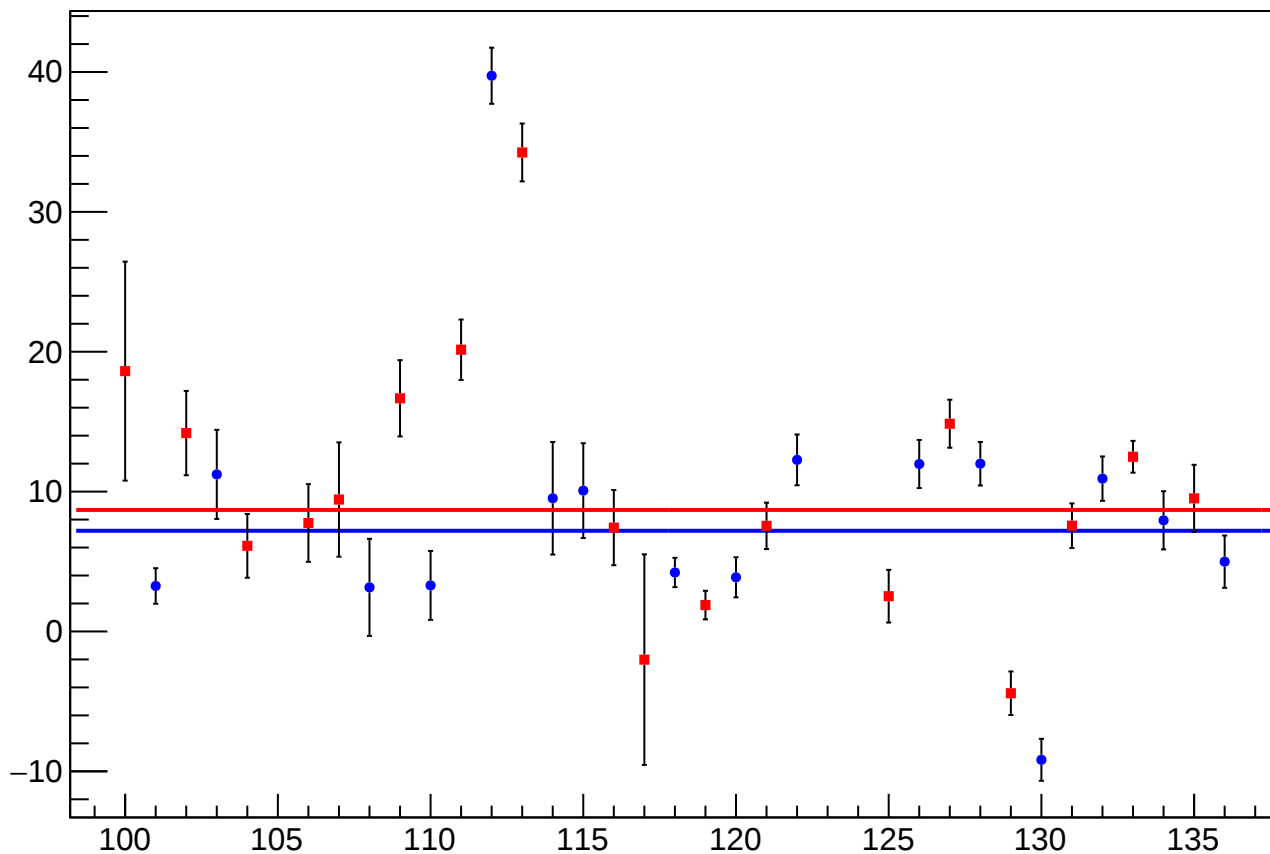
Right Out: -96.745+/-0.741  $\chi^2/\text{NDF}$ : 879.2/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-94.119+/-0.746  $\chi^2/\text{NDF}$ : 896.3/15

-96.745+/-0.741  $\chi^2/\text{NDF}$ : 879.2/17

# reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug



Right In: 7.199+/-0.440  $\chi^2/\text{NDF}$ : 443.8/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

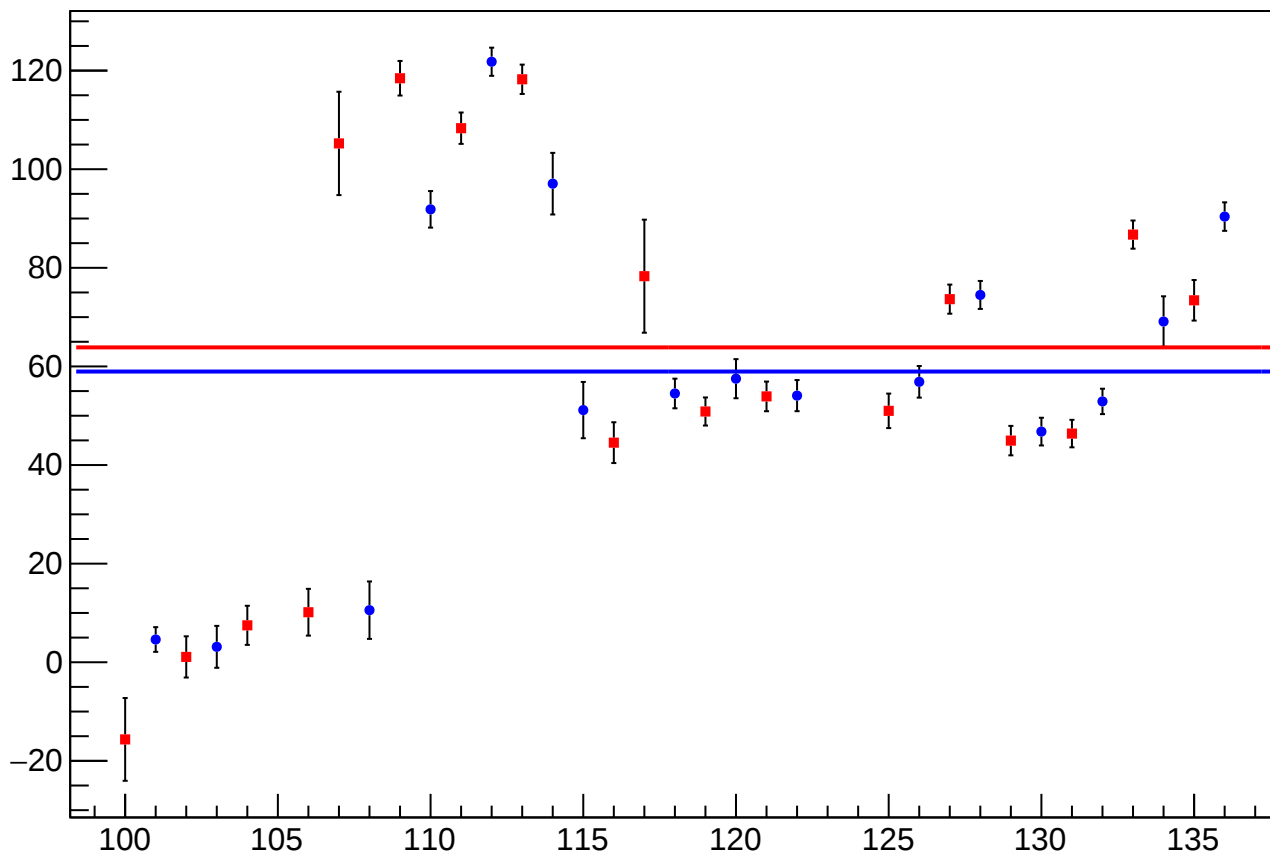
Right Out: 8.690+/-0.450  $\chi^2/\text{NDF}$ : 349.0/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7.199+/-0.440  $\chi^2/\text{NDF}$ : 443.8/15

8.690+/-0.450  $\chi^2/\text{NDF}$ : 349.0/17

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In: 58.962+/-0.837  $\chi^2$ /NDF: 1496.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

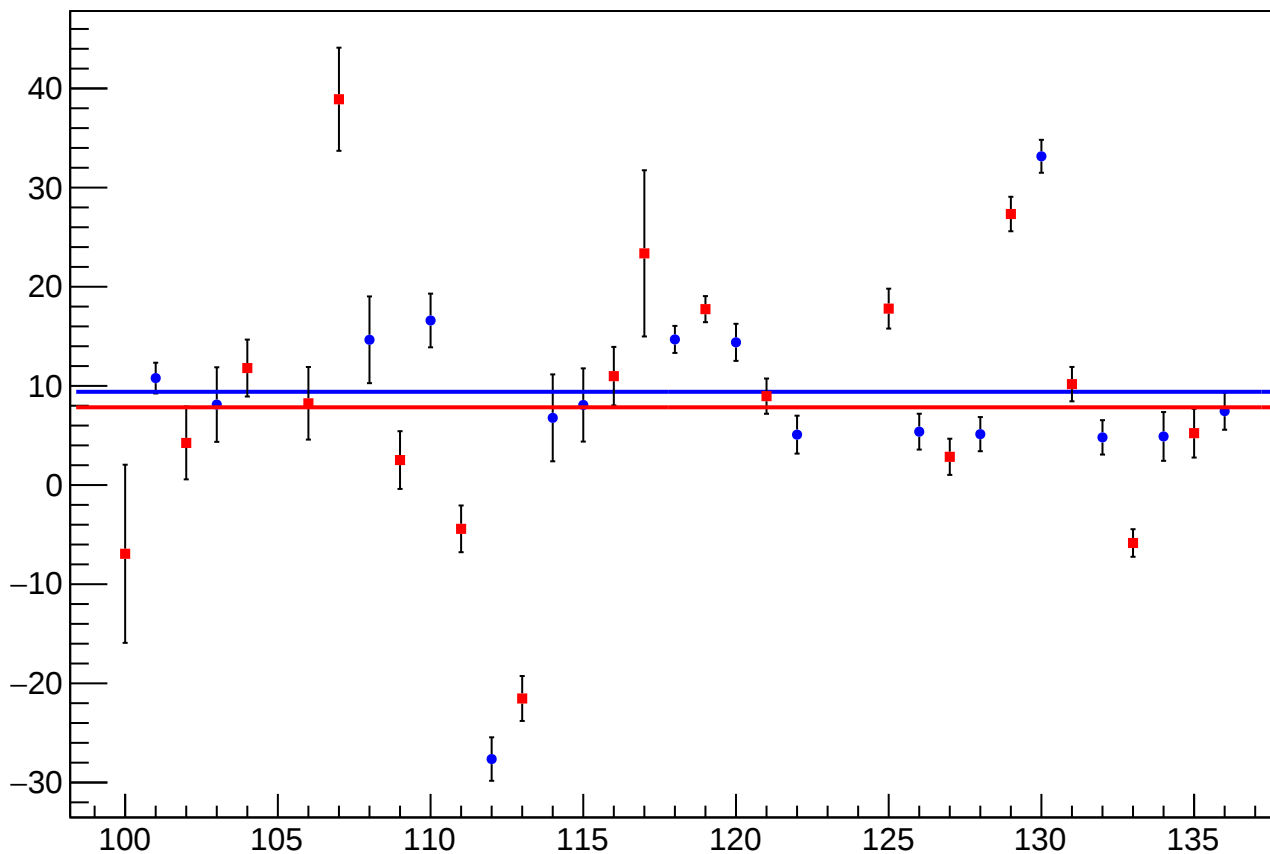
Right Out: 63.862+/-0.845  $\chi^2$ /NDF: 1661.2/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

58.962+/-0.837  $\chi^2$ /NDF: 1496.5/15

63.862+/-0.845  $\chi^2$ /NDF: 1661.2/17

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In: 9.405+/-0.507  $\chi^2/\text{NDF}$ : 549.5/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

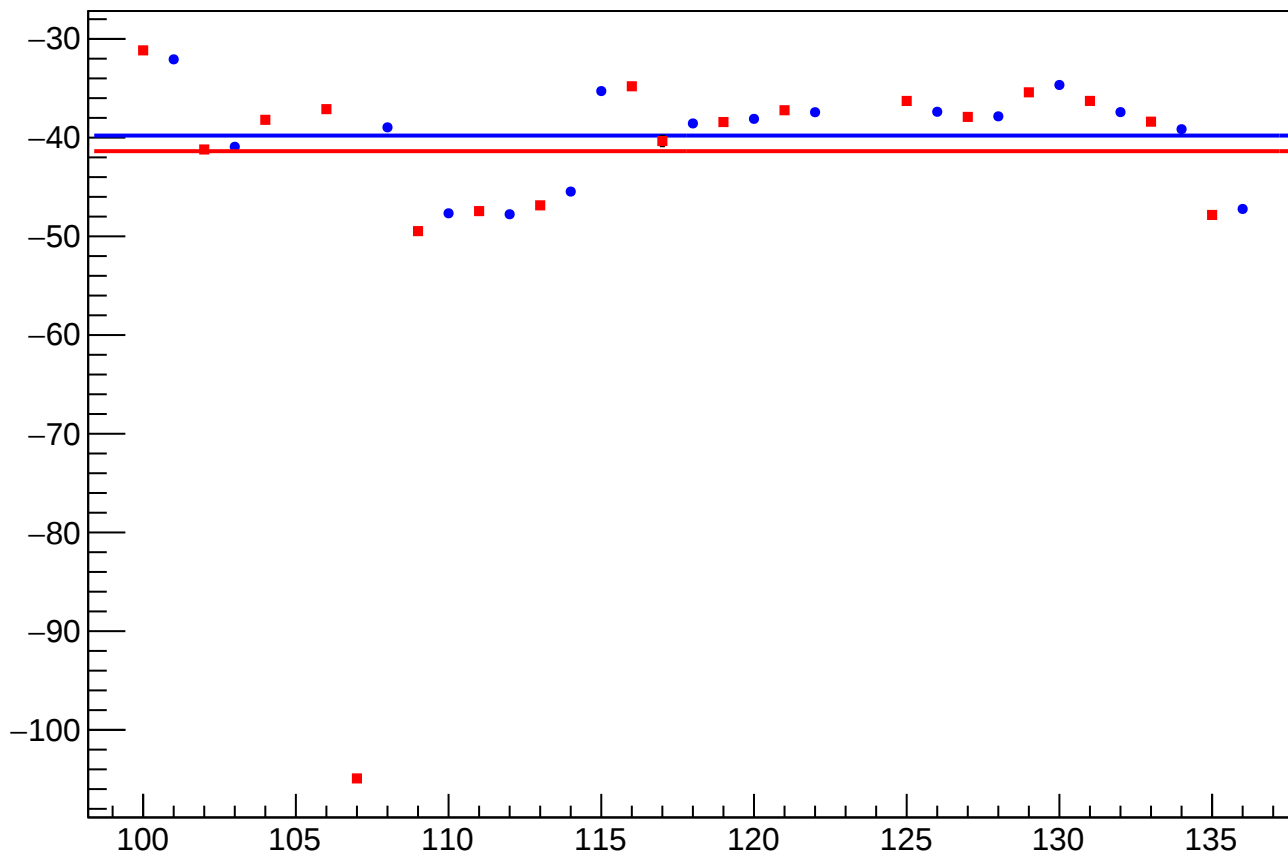
Right Out: 7.842+/-0.518  $\chi^2/\text{NDF}$ : 558.5/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.405+/-0.507  $\chi^2/\text{NDF}$ : 549.5/15

7.842+/-0.518  $\chi^2/\text{NDF}$ : 558.5/17

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In: -39.791 $\pm$ 0.031  $\chi^2$ /NDF: 26138.6/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

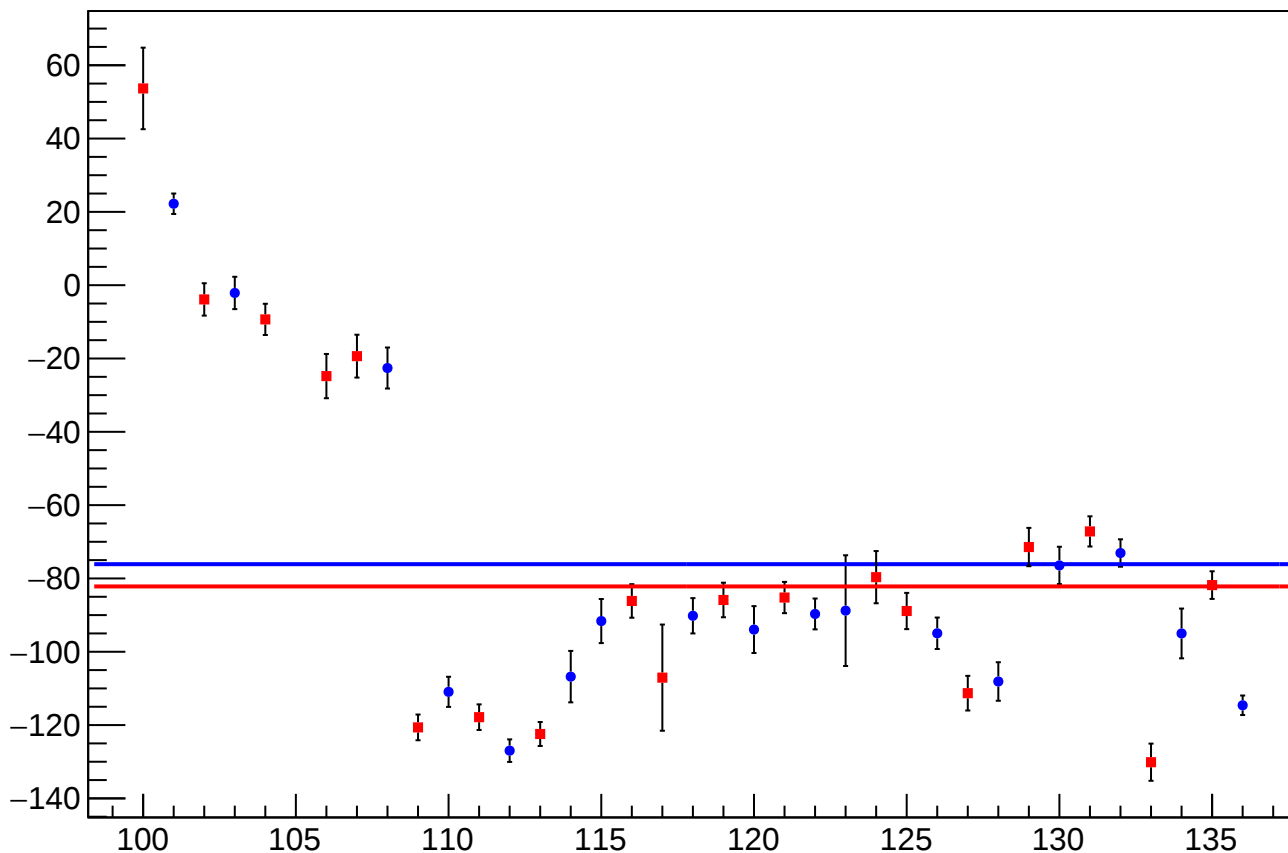
Right Out: -41.373 $\pm$ 0.032  $\chi^2$ /NDF: 92354.7/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-39.791 $\pm$ 0.031  $\chi^2$ /NDF: 26138.6/15

-41.373 $\pm$ 0.032  $\chi^2$ /NDF: 92354.7/17

# reg\_asym\_usr\_diff\_bpm4aX\_slope vs Slug



Right In:  $-76.106 \pm 1.044$   $\chi^2/\text{NDF}$ : 2289.5/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

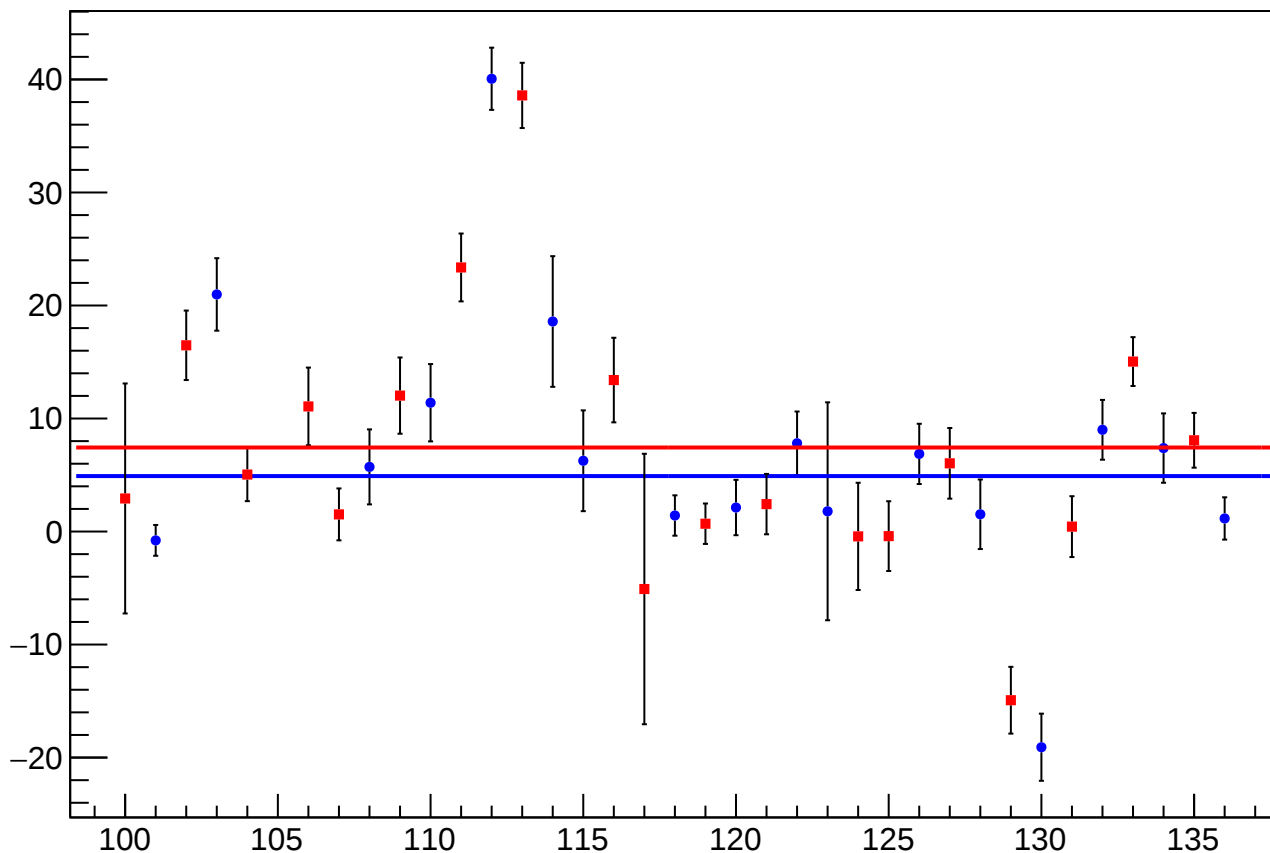
Right Out:  $-82.179 \pm 1.059$   $\chi^2/\text{NDF}$ : 1490.3/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-76.106 \pm 1.044$   $\chi^2/\text{NDF}$ : 2289.5/16

$-82.179 \pm 1.059$   $\chi^2/\text{NDF}$ : 1490.3/18

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug



Right In: 4.907 $\pm$ 0.628  $\chi^2$ /NDF: 295.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

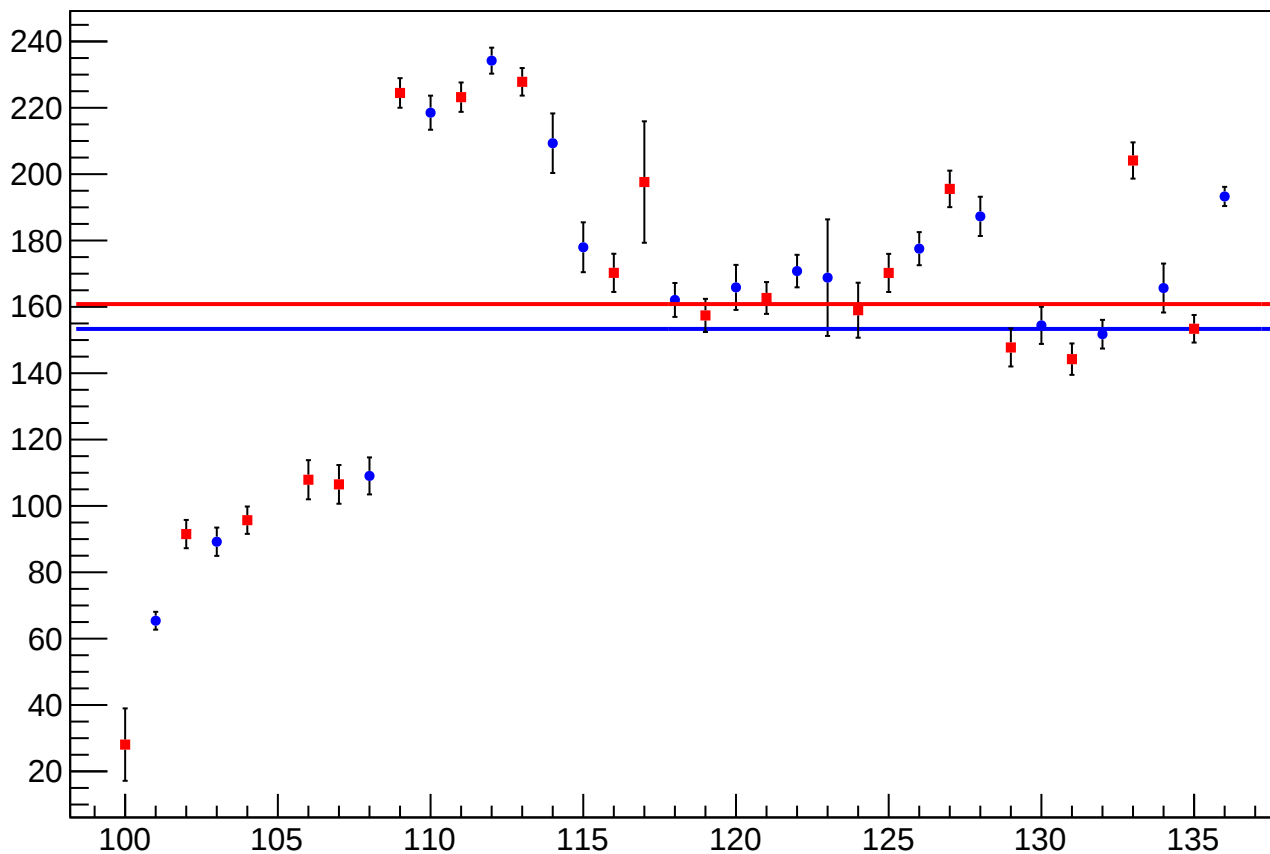
Right Out: 7.434 $\pm$ 0.658  $\chi^2$ /NDF: 271.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

4.907 $\pm$ 0.628  $\chi^2$ /NDF: 295.4/16

7.434 $\pm$ 0.658  $\chi^2$ /NDF: 271.5/18

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 153.350+/-1.150  $\chi^2/\text{NDF}$ : 2268.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

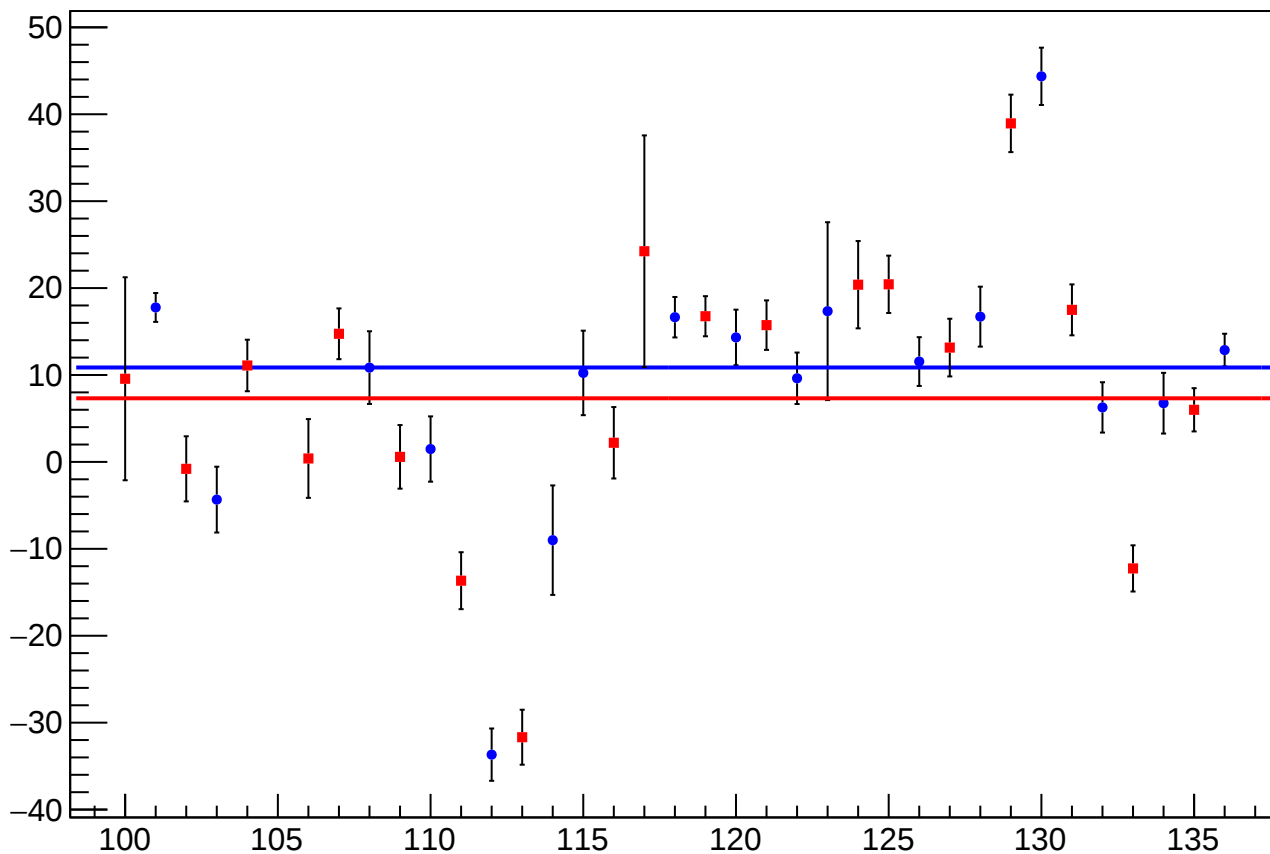
153.350+/-1.150  $\chi^2/\text{NDF}$ : 2268.3/16

Right Out: 160.839+/-1.195  $\chi^2/\text{NDF}$ : 1625.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

160.839+/-1.195  $\chi^2/\text{NDF}$ : 1625.2/18

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In: 10.864 $\pm$ 0.719  $\chi^2$ /NDF: 387.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

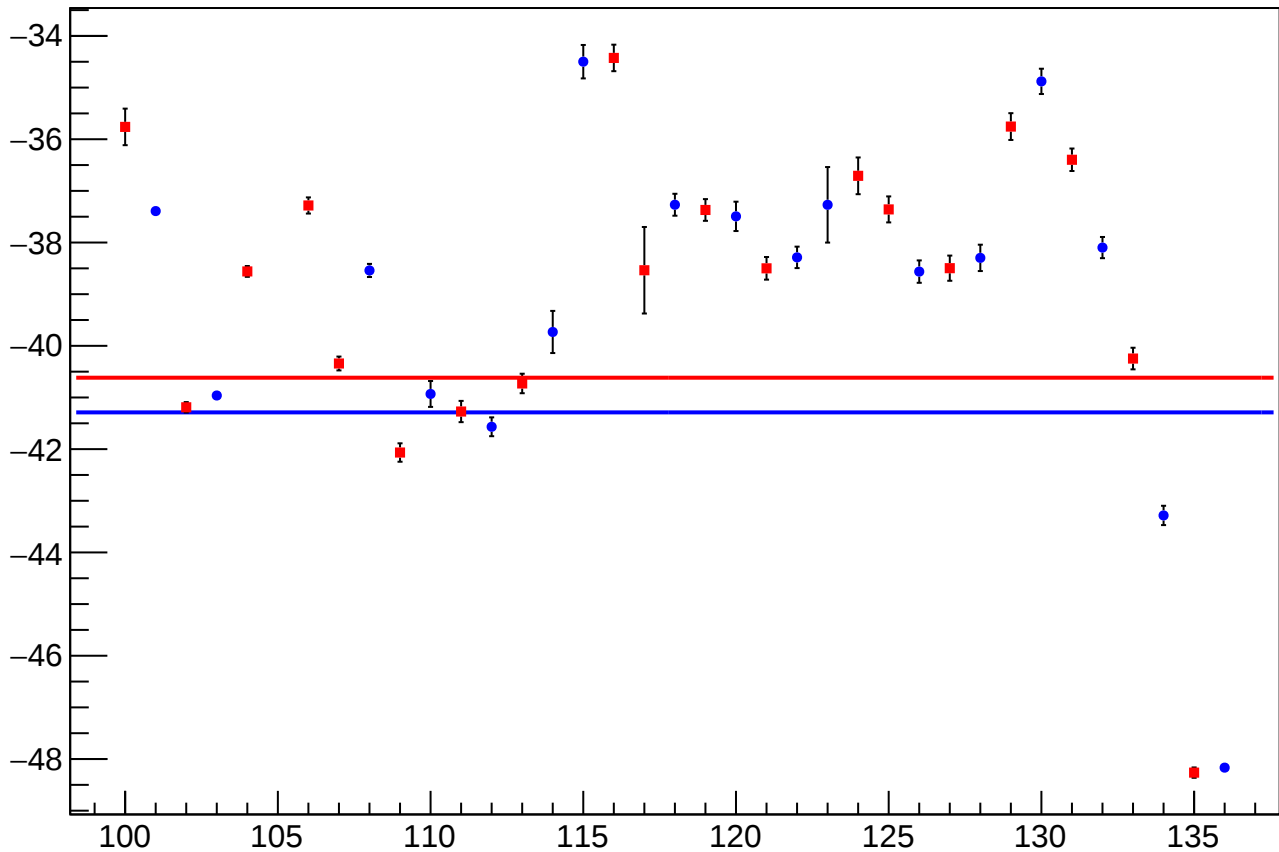
Right Out: 7.318 $\pm$ 0.759  $\chi^2$ /NDF: 424.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

10.864 $\pm$ 0.719  $\chi^2$ /NDF: 387.9/16

7.318 $\pm$ 0.759  $\chi^2$ /NDF: 424.0/18

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In: -41.289+/-0.039  $\chi^2/\text{NDF}$ : 12509.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

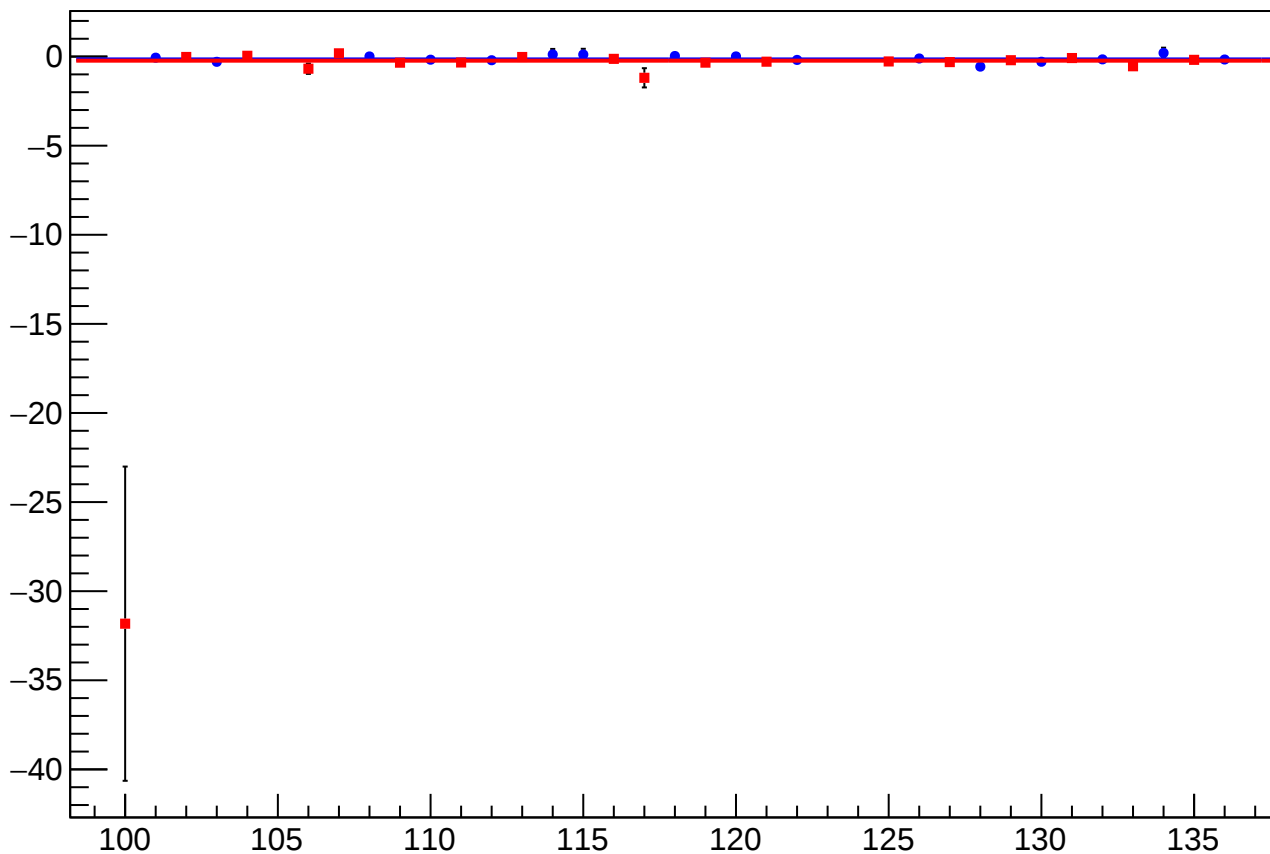
Right Out: -40.617+/-0.040  $\chi^2/\text{NDF}$ : 8975.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-41.289+/-0.039  $\chi^2/\text{NDF}$ : 12509.1/16

-40.617+/-0.040  $\chi^2/\text{NDF}$ : 8975.5/18

# reg\_asym\_dsl\_diff\_bpm4aX\_slope vs Slug



Right In: -0.159+/-0.048  $\chi^2/\text{NDF}$ : 11.8/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

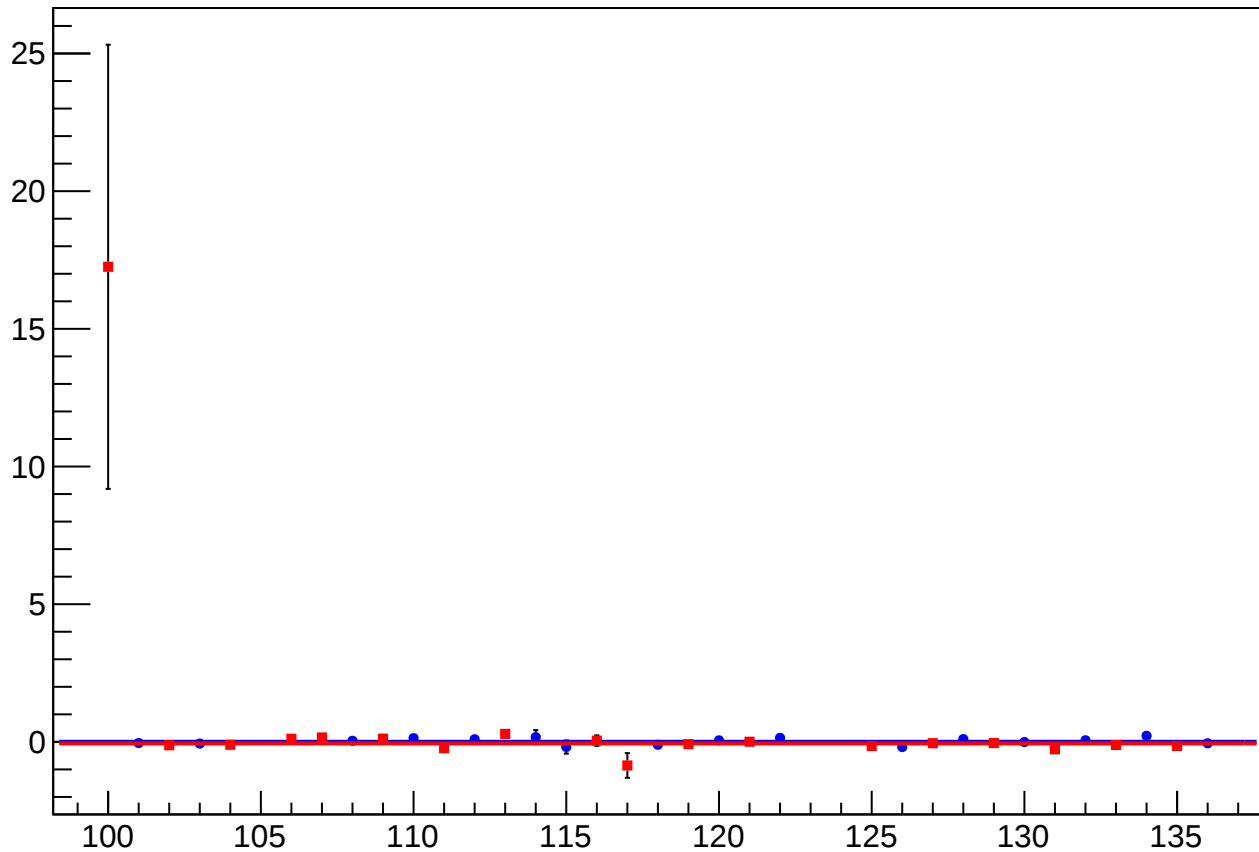
Right Out: -0.230+/-0.048  $\chi^2/\text{NDF}$ : 30.8/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.159+/-0.048  $\chi^2/\text{NDF}$ : 11.8/15

-0.230+/-0.048  $\chi^2/\text{NDF}$ : 30.8/17

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug



Right In: 0.003+/-0.029  $\chi^2/\text{NDF}$ : 12.4/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

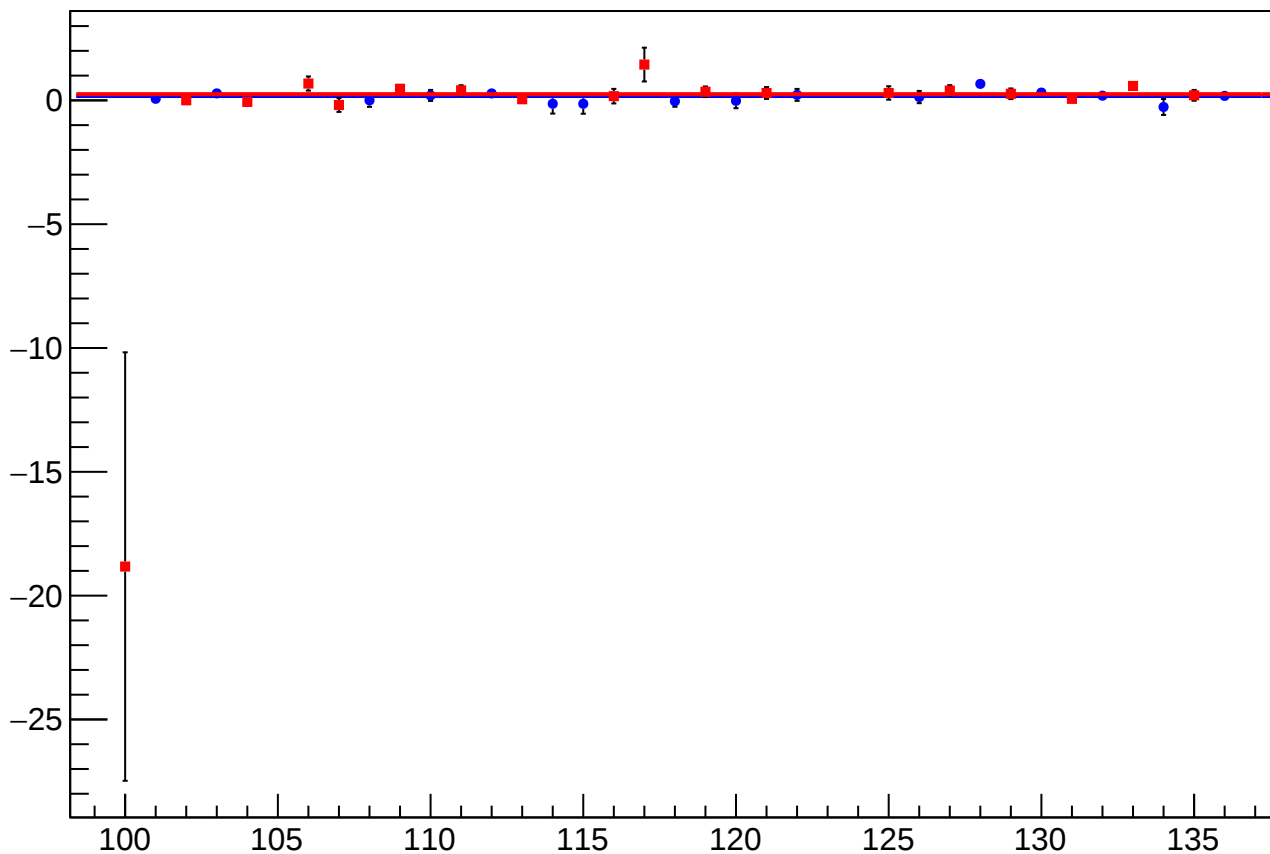
Right Out: -0.057+/-0.030  $\chi^2/\text{NDF}$ : 28.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.003+/-0.029  $\chi^2/\text{NDF}$ : 12.4/15

-0.057+/-0.030  $\chi^2/\text{NDF}$ : 28.1/17

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In: 0.176+/-0.053  $\chi^2/\text{NDF}$ : 13.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

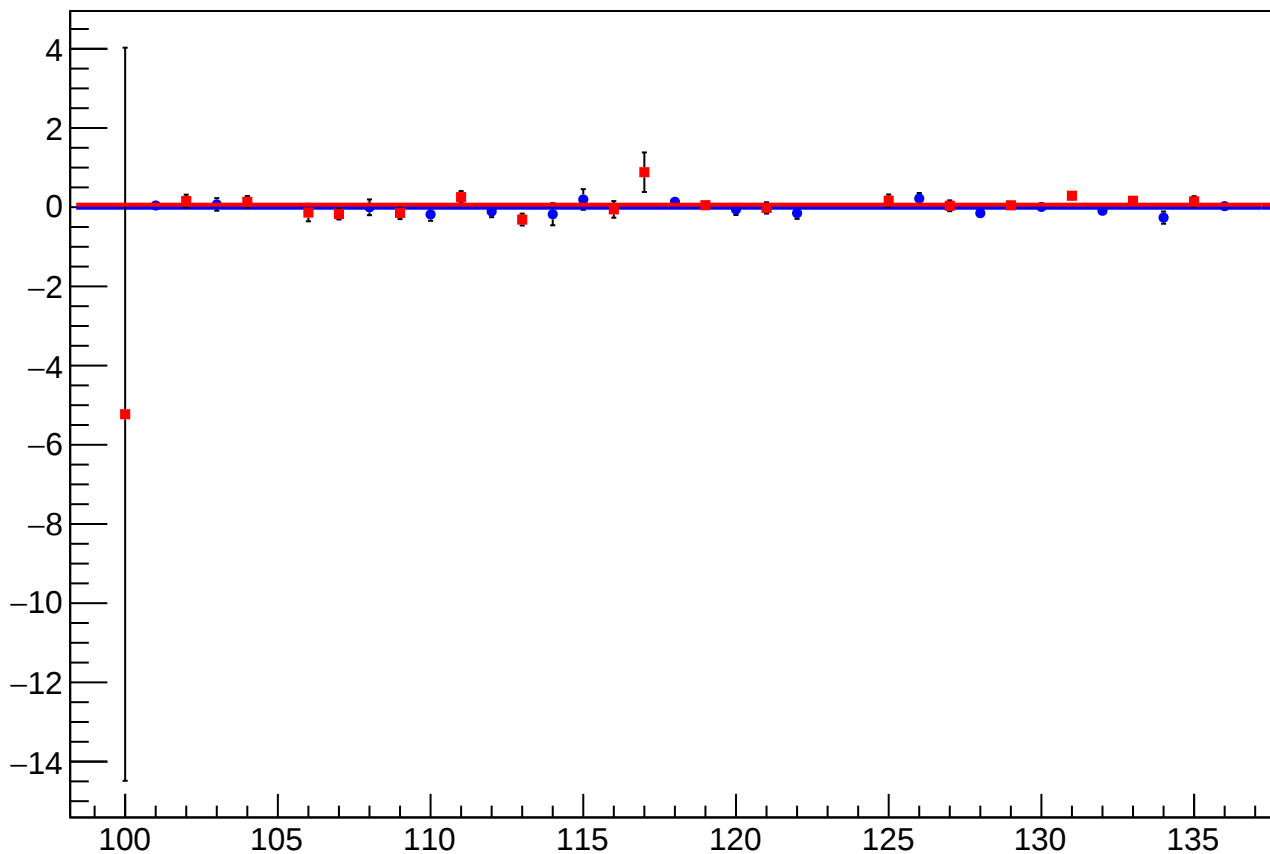
Right Out: 0.251+/-0.054  $\chi^2/\text{NDF}$ : 24.5/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.176+/-0.053  $\chi^2/\text{NDF}$ : 13.0/15

0.251+/-0.054  $\chi^2/\text{NDF}$ : 24.5/17

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In: -0.013 $\pm$ 0.033  $\chi^2$ /NDF: 13.6/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

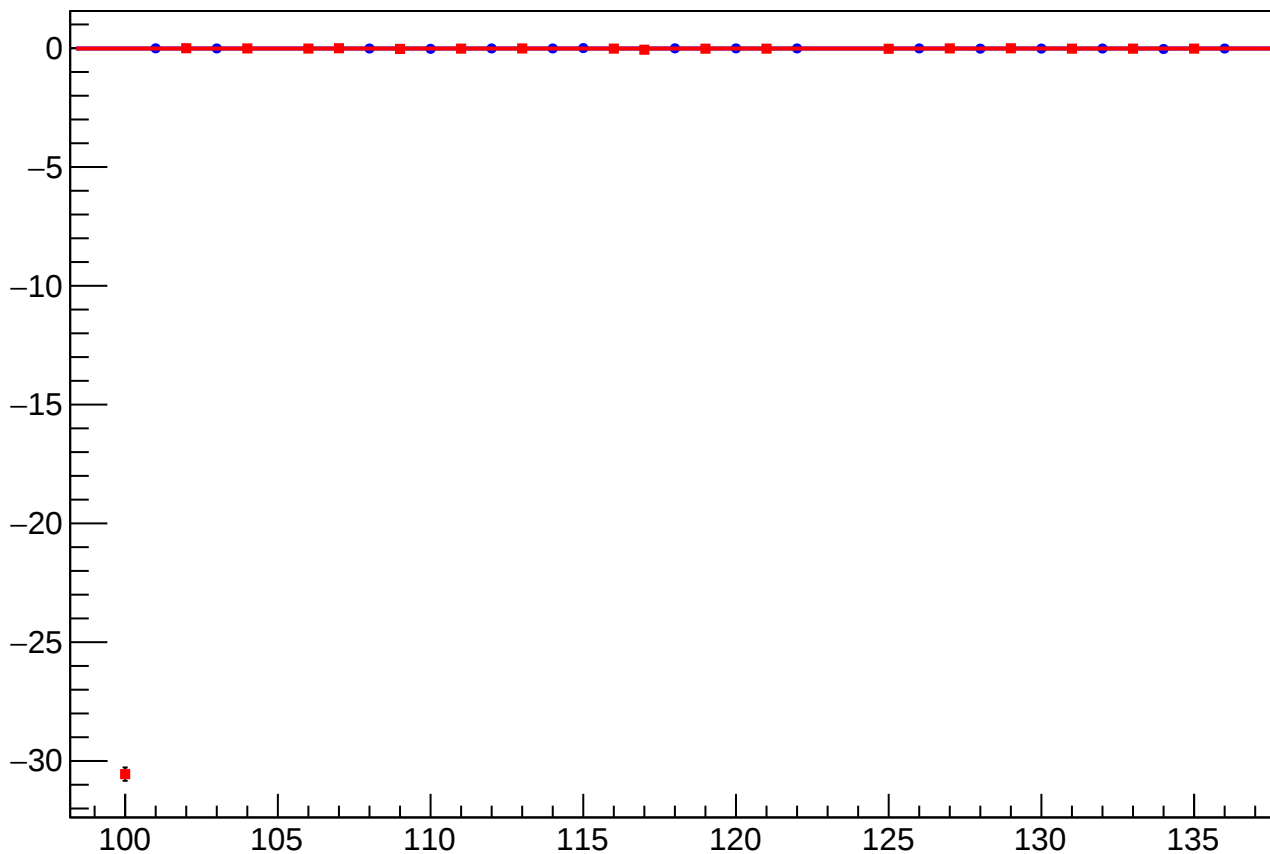
Right Out: 0.064 $\pm$ 0.034  $\chi^2$ /NDF: 22.7/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.013 $\pm$ 0.033  $\chi^2$ /NDF: 13.6/15

0.064 $\pm$ 0.034  $\chi^2$ /NDF: 22.7/17

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In: -0.012 $\pm$ 0.002  $\chi^2$ /NDF: 12.8/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

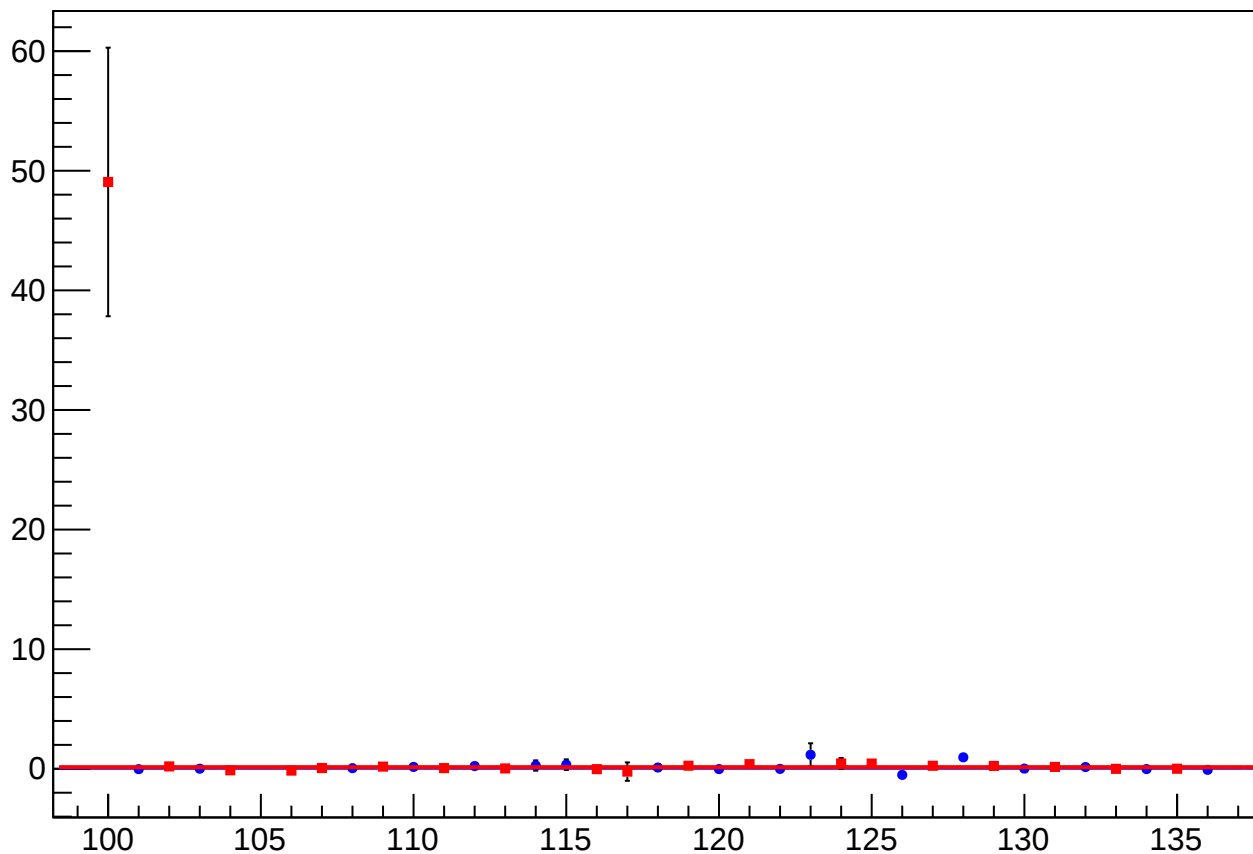
Right Out: -0.013 $\pm$ 0.002  $\chi^2$ /NDF: 11889.7/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.012 $\pm$ 0.002  $\chi^2$ /NDF: 12.8/15

-0.013 $\pm$ 0.002  $\chi^2$ /NDF: 11889.7/17

# reg\_asym\_dsr\_diff\_bpm4aX\_slope vs Slug



Right In: 0.091+/-0.062     $\chi^2/\text{NDF}$ : 21.4/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

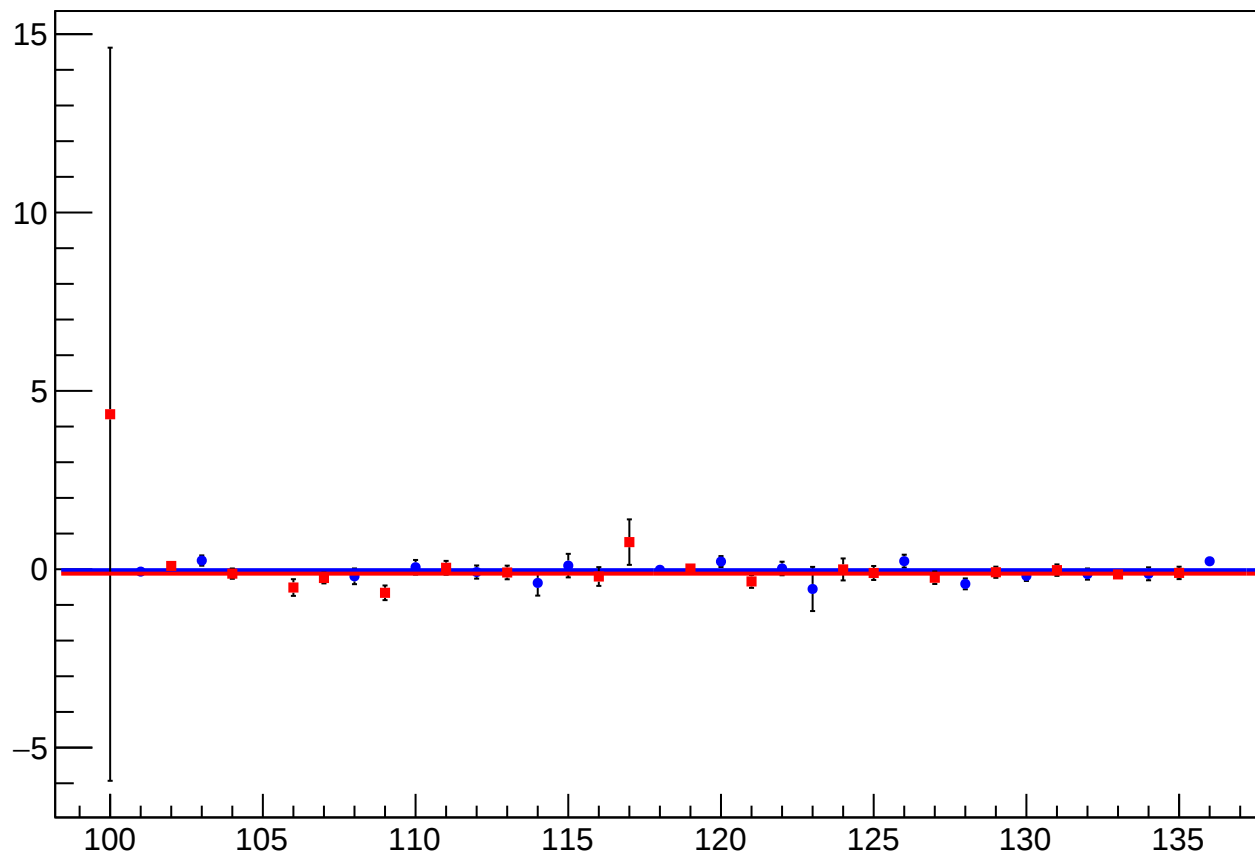
Right Out: 0.133+/-0.064     $\chi^2/\text{NDF}$ : 24.8/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.091+/-0.062     $\chi^2/\text{NDF}$ : 21.4/16

0.133+/-0.064     $\chi^2/\text{NDF}$ : 24.8/18

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug



Right In: -0.026+/-0.037  $\chi^2$ /NDF: 22.7/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

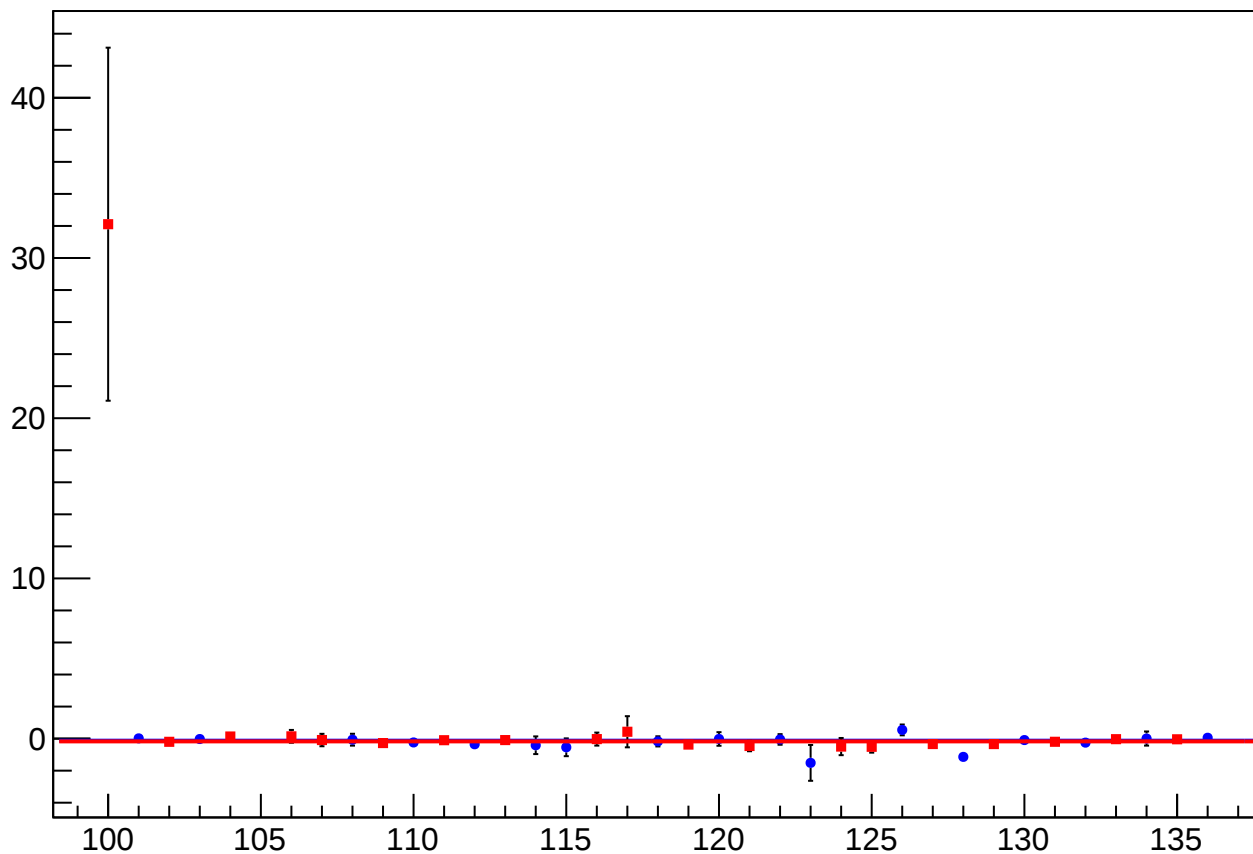
Right Out: -0.123+/-0.040  $\chi^2$ /NDF: 19.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.026+/-0.037  $\chi^2$ /NDF: 22.7/16

-0.123+/-0.040  $\chi^2$ /NDF: 19.9/18

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In: -0.129+/-0.067  $\chi^2$ /NDF: 23.1/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

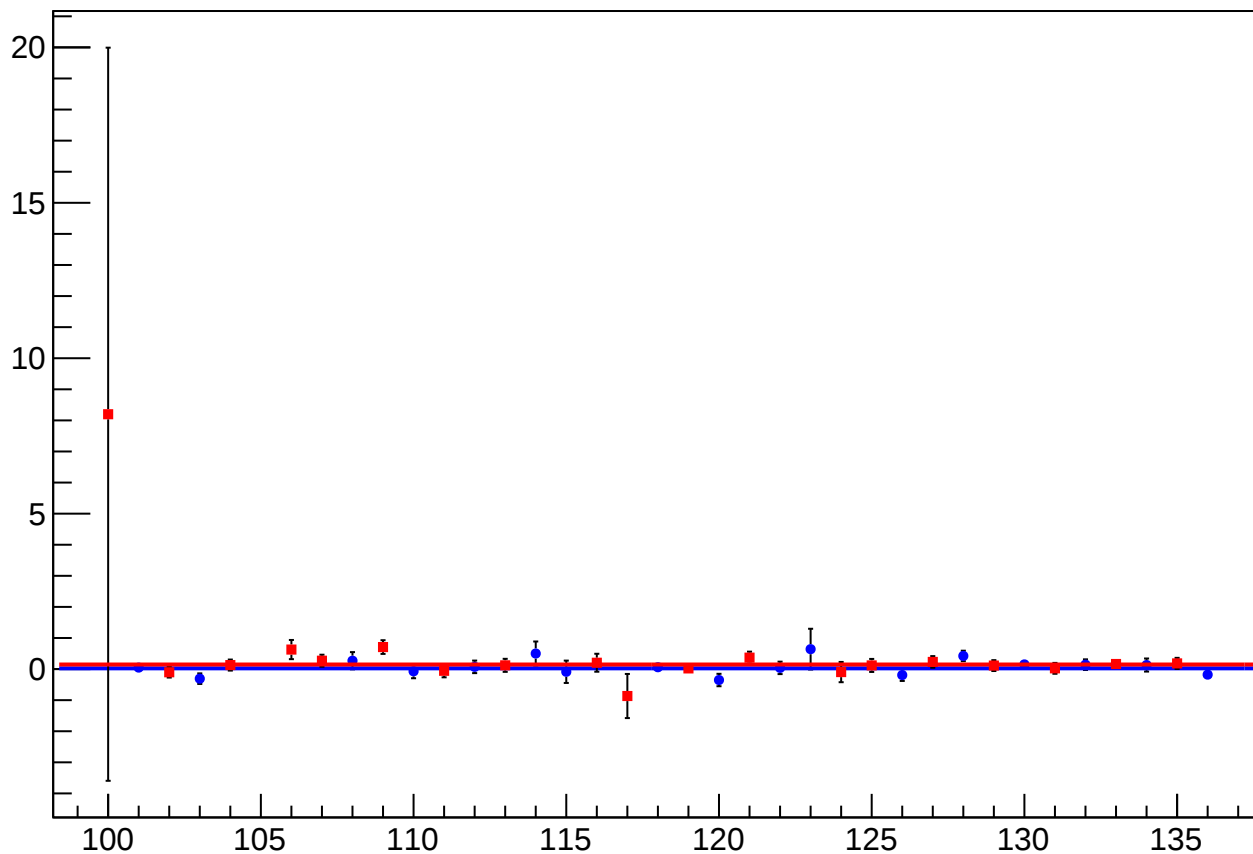
Right Out: -0.172+/-0.072  $\chi^2$ /NDF: 15.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.129+/-0.067  $\chi^2$ /NDF: 23.1/16

-0.172+/-0.072  $\chi^2$ /NDF: 15.2/18

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In: 0.023+/-0.043  $\chi^2/\text{NDF}$ : 21.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

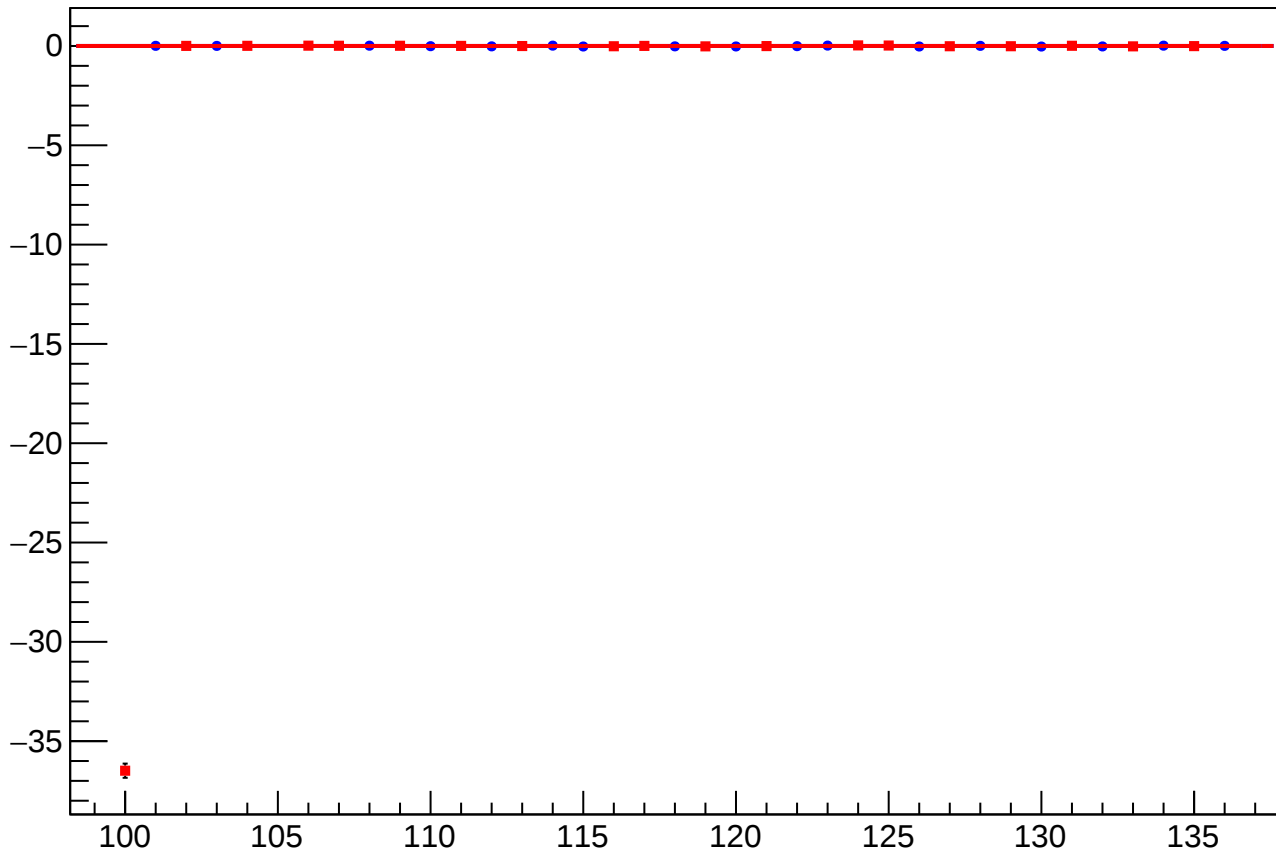
Right Out: 0.147+/-0.046  $\chi^2/\text{NDF}$ : 18.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.023+/-0.043  $\chi^2/\text{NDF}$ : 21.3/16

0.147+/-0.046  $\chi^2/\text{NDF}$ : 18.5/18

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In: 0.001+/-0.002     $\chi^2/\text{NDF}$ : 30.6/16

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

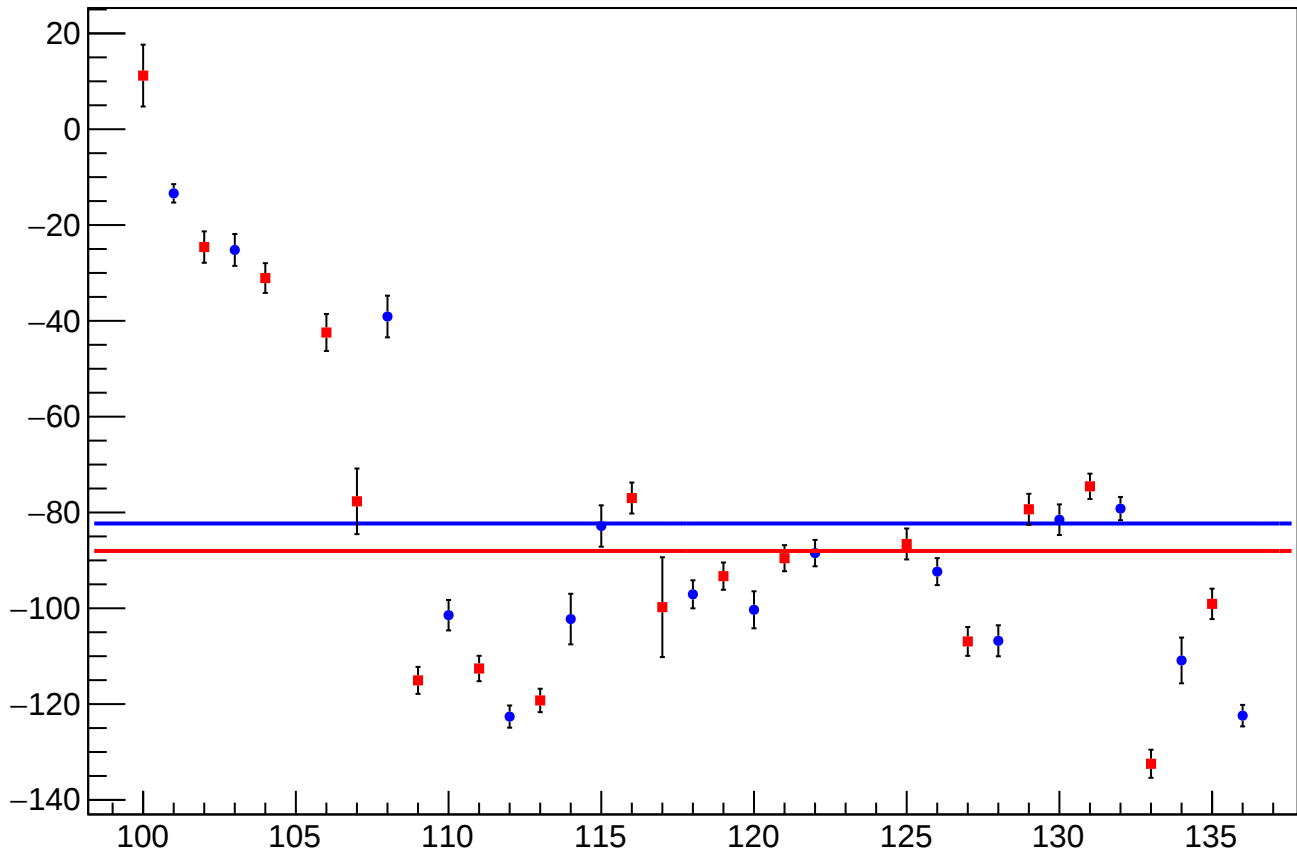
Right Out: 0.001+/-0.002     $\chi^2/\text{NDF}$ : 10448.8/18

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.001+/-0.002     $\chi^2/\text{NDF}$ : 30.6/16

0.001+/-0.002     $\chi^2/\text{NDF}$ : 10448.8/18

# reg\_asym\_us\_avg\_diff\_bpm4aX\_slope vs Slug



Right In:  $-82.301 \pm 0.738$   $\chi^2/\text{NDF}$ : 2510.0/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

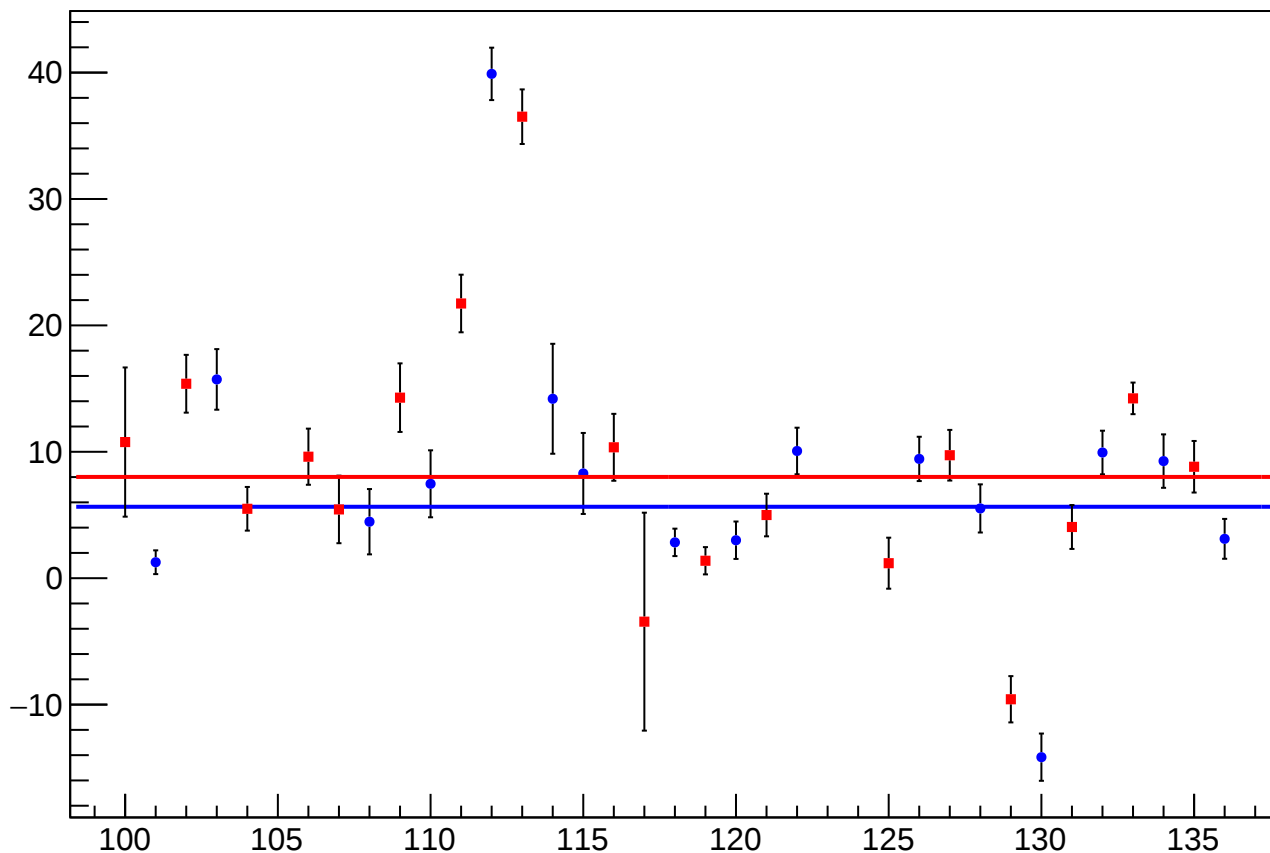
Right Out:  $-88.030 \pm 0.752$   $\chi^2/\text{NDF}$ : 1761.5/17

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-82.301 \pm 0.738$   $\chi^2/\text{NDF}$ : 2510.0/15

$-88.030 \pm 0.752$   $\chi^2/\text{NDF}$ : 1761.5/17

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 5.651+/-0.429  $\chi^2/\text{NDF}$ : 461.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

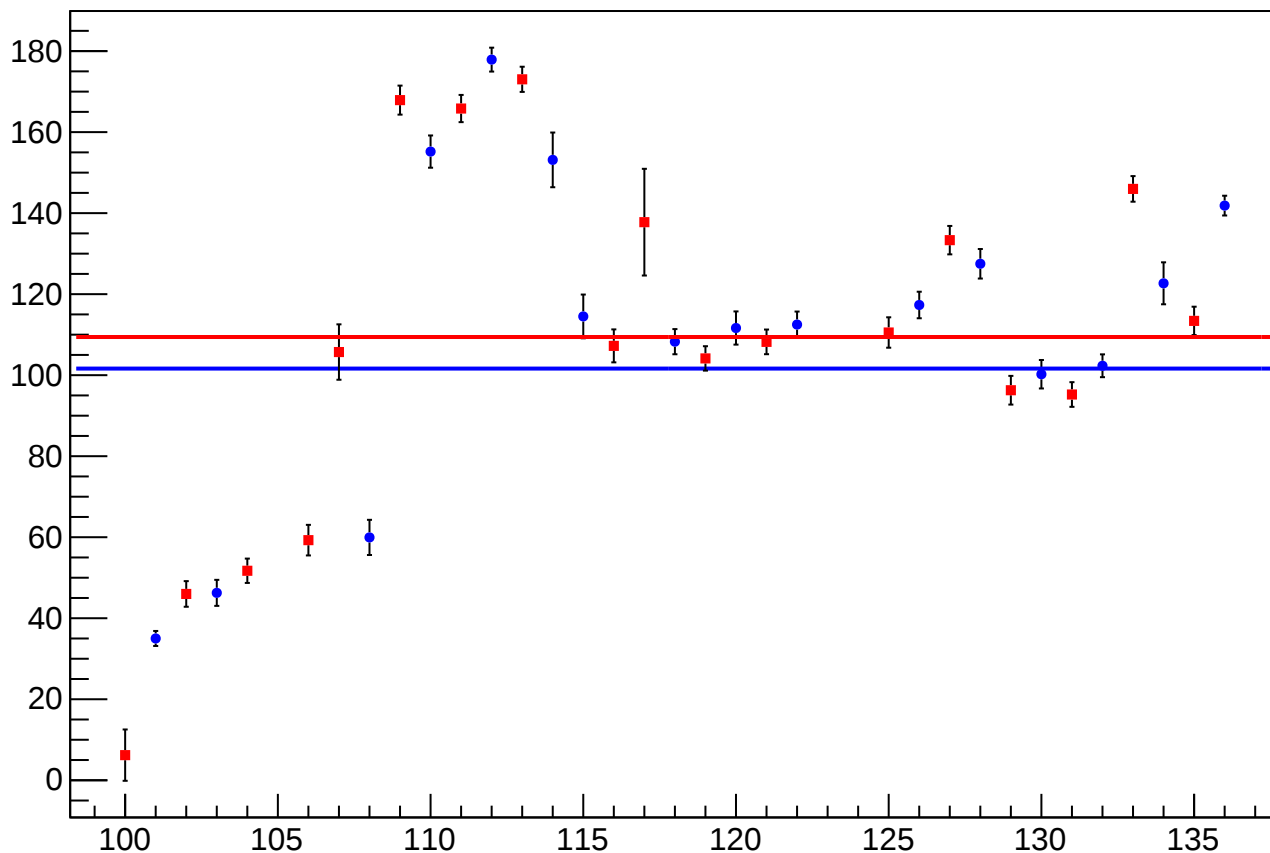
Right Out: 8.012+/-0.456  $\chi^2/\text{NDF}$ : 408.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.651+/-0.429  $\chi^2/\text{NDF}$ : 461.9/15

8.012+/-0.456  $\chi^2/\text{NDF}$ : 408.1/17

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 101.630 $\pm$ 0.812  $\chi^2$ /NDF: 2980.2/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

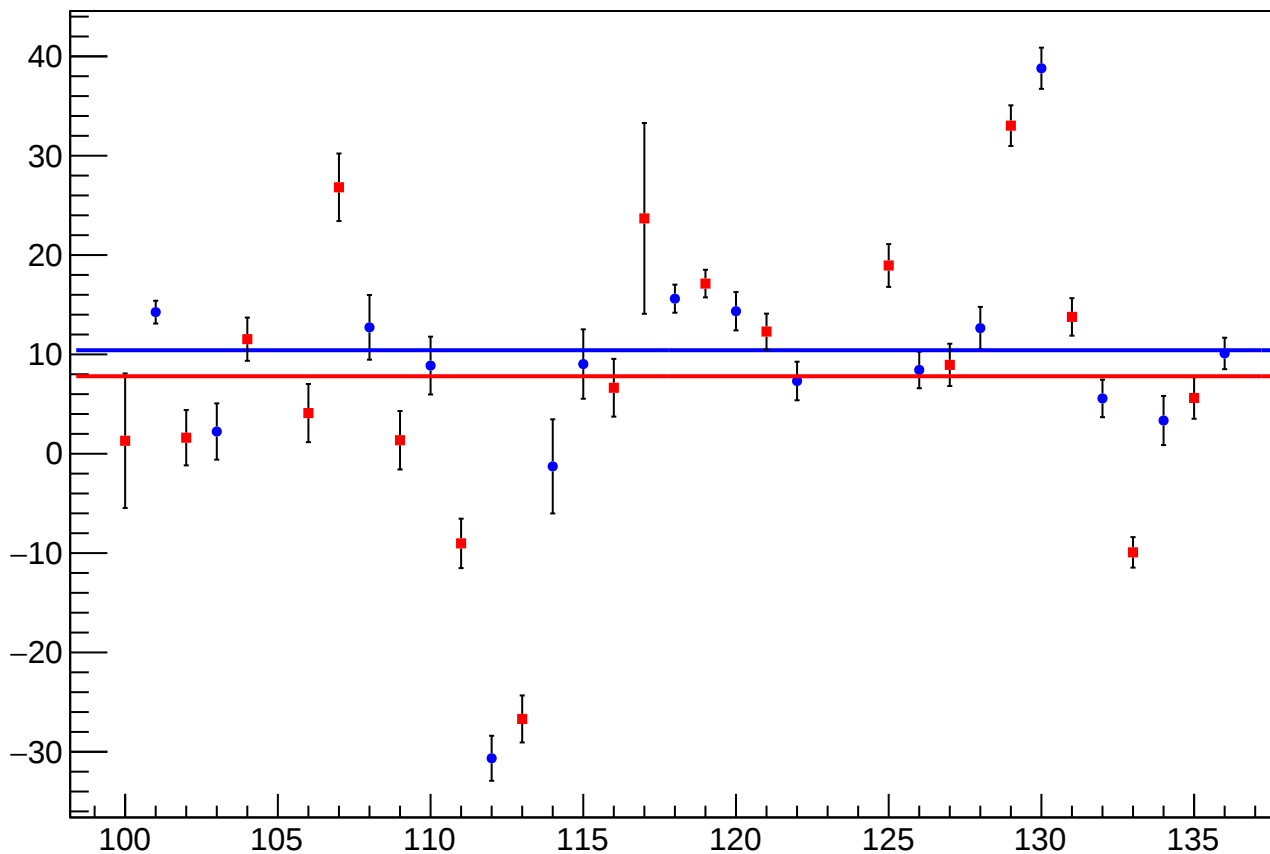
Right Out: 109.423 $\pm$ 0.844  $\chi^2$ /NDF: 2406.1/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

101.630 $\pm$ 0.812  $\chi^2$ /NDF: 2980.2/15

109.423 $\pm$ 0.844  $\chi^2$ /NDF: 2406.1/17

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 10.420+/-0.497  $\chi^2/\text{NDF}$ : 579.7/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

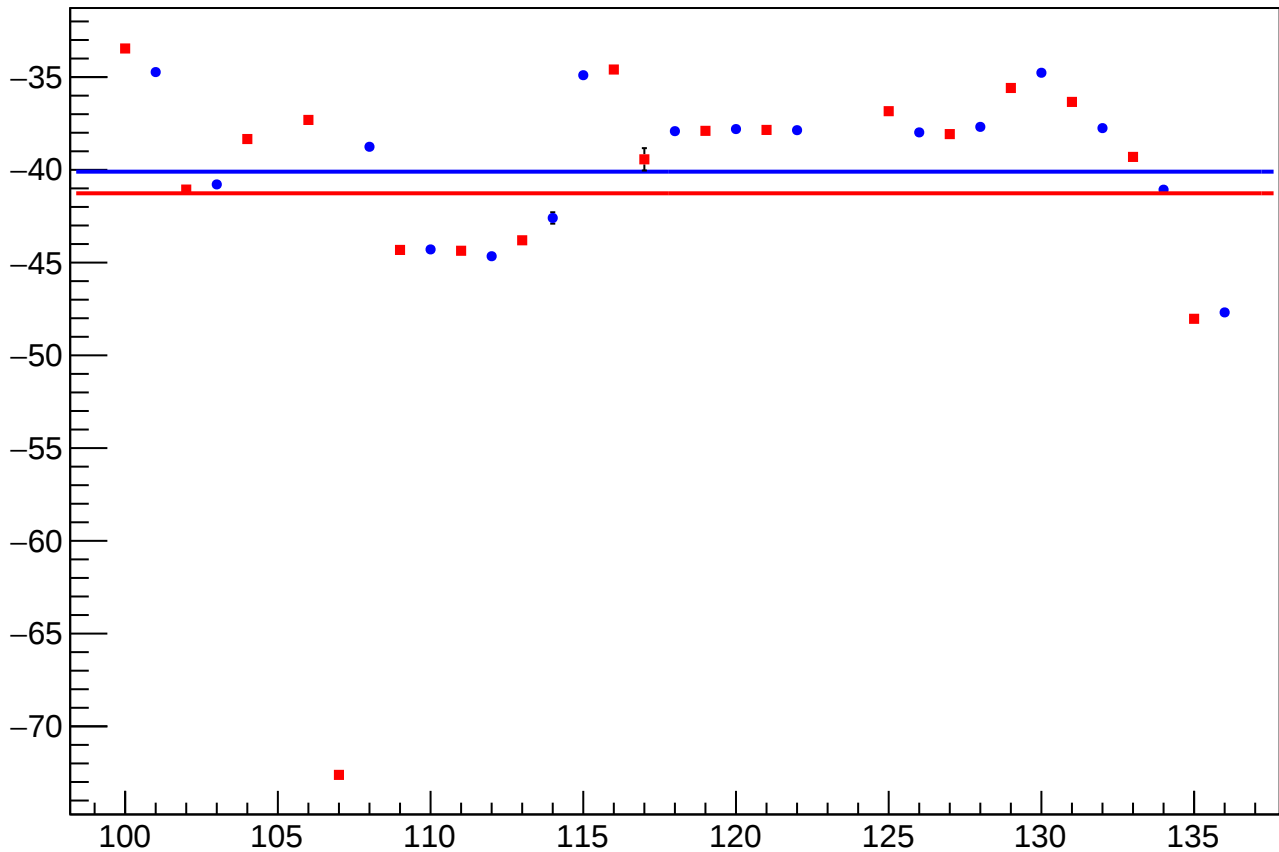
Right Out: 7.801+/-0.528  $\chi^2/\text{NDF}$ : 682.1/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.420+/-0.497  $\chi^2/\text{NDF}$ : 579.7/15

7.801+/-0.528  $\chi^2/\text{NDF}$ : 682.1/17

# reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -40.098 $\pm$ 0.028  $\chi^2$ /NDF: 25073.4/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

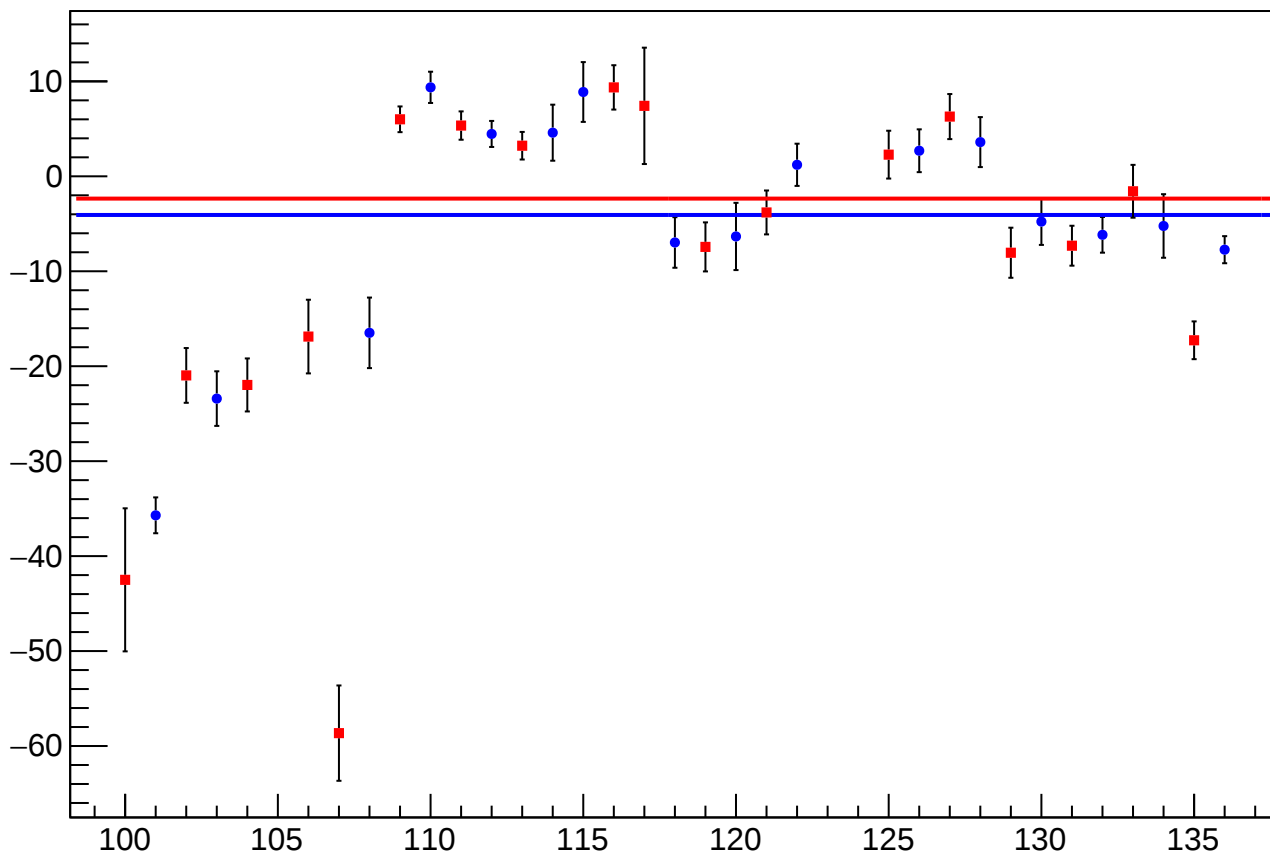
Right Out: -41.265 $\pm$ 0.029  $\chi^2$ /NDF: 58399.2/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-40.098 $\pm$ 0.028  $\chi^2$ /NDF: 25073.4/15

-41.265 $\pm$ 0.029  $\chi^2$ /NDF: 58399.2/17

# reg\_asym\_us\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -4.071+/-0.544  $\chi^2$ /NDF: 500.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

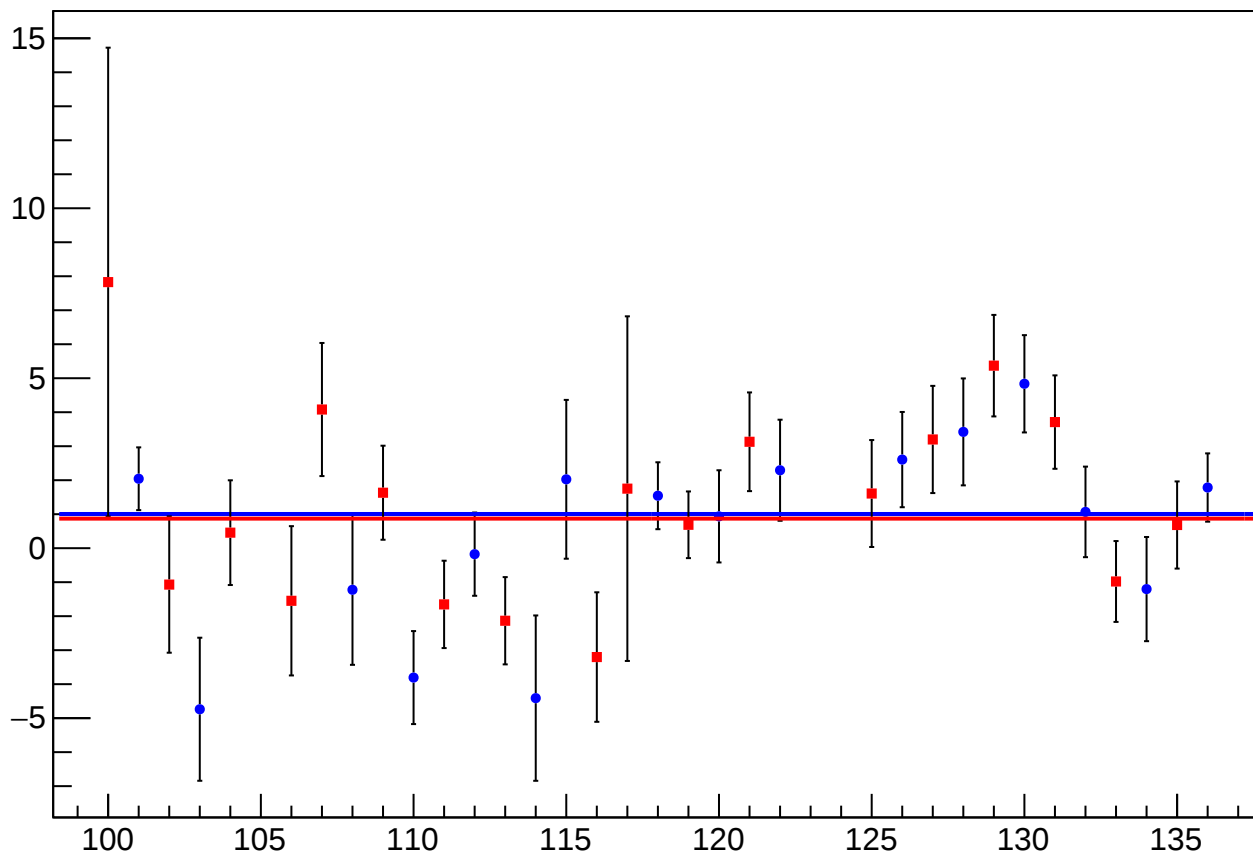
Right Out: -2.347+/-0.537  $\chi^2$ /NDF: 453.8/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-4.071+/-0.544  $\chi^2$ /NDF: 500.7/15

-2.347+/-0.537  $\chi^2$ /NDF: 453.8/17

# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 1.006+/-0.342  $\chi^2/\text{NDF}$ : 42.7/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

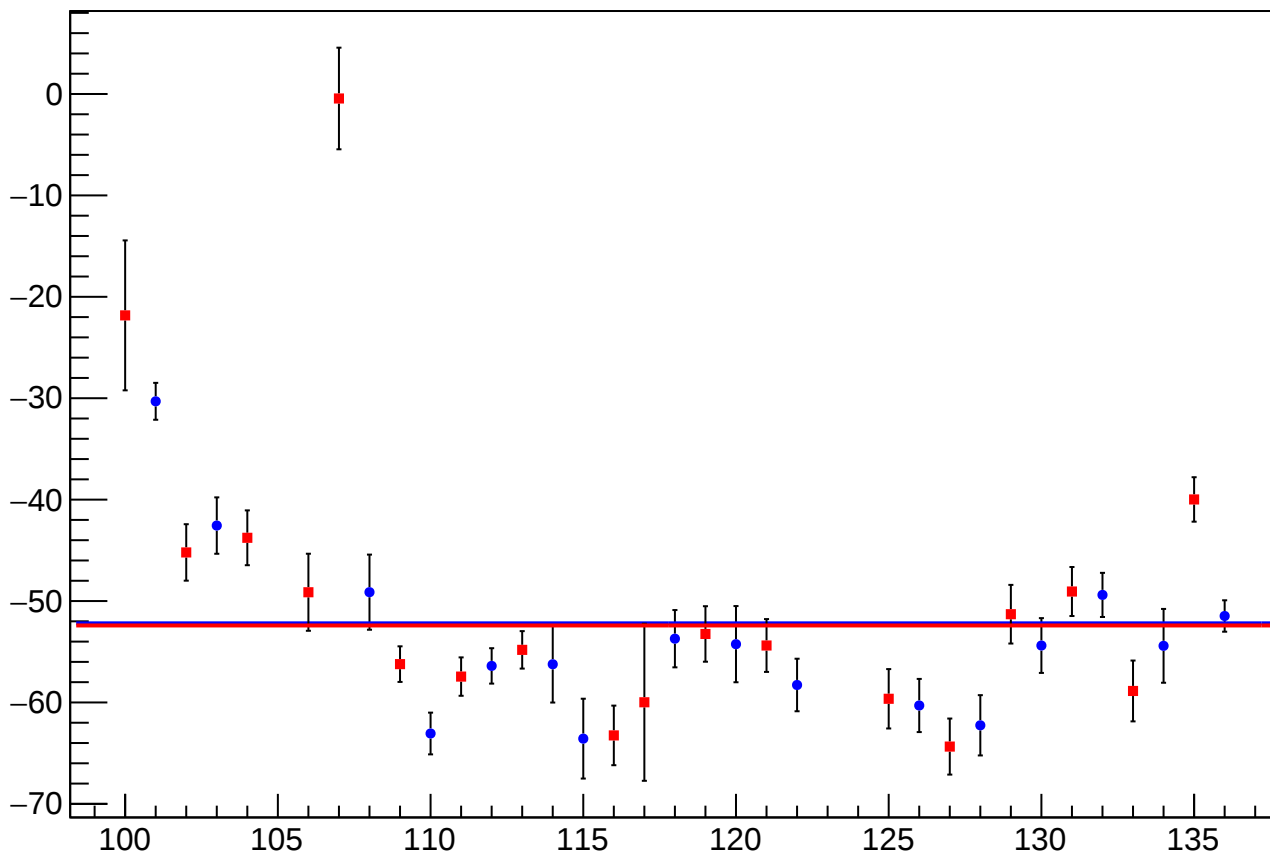
Right Out: 0.870+/-0.358  $\chi^2/\text{NDF}$ : 40.8/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.006+/-0.342  $\chi^2/\text{NDF}$ : 42.7/15

0.870+/-0.358  $\chi^2/\text{NDF}$ : 40.8/17

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -52.200 $\pm$ 0.615  $\chi^2$ /NDF: 230.6/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

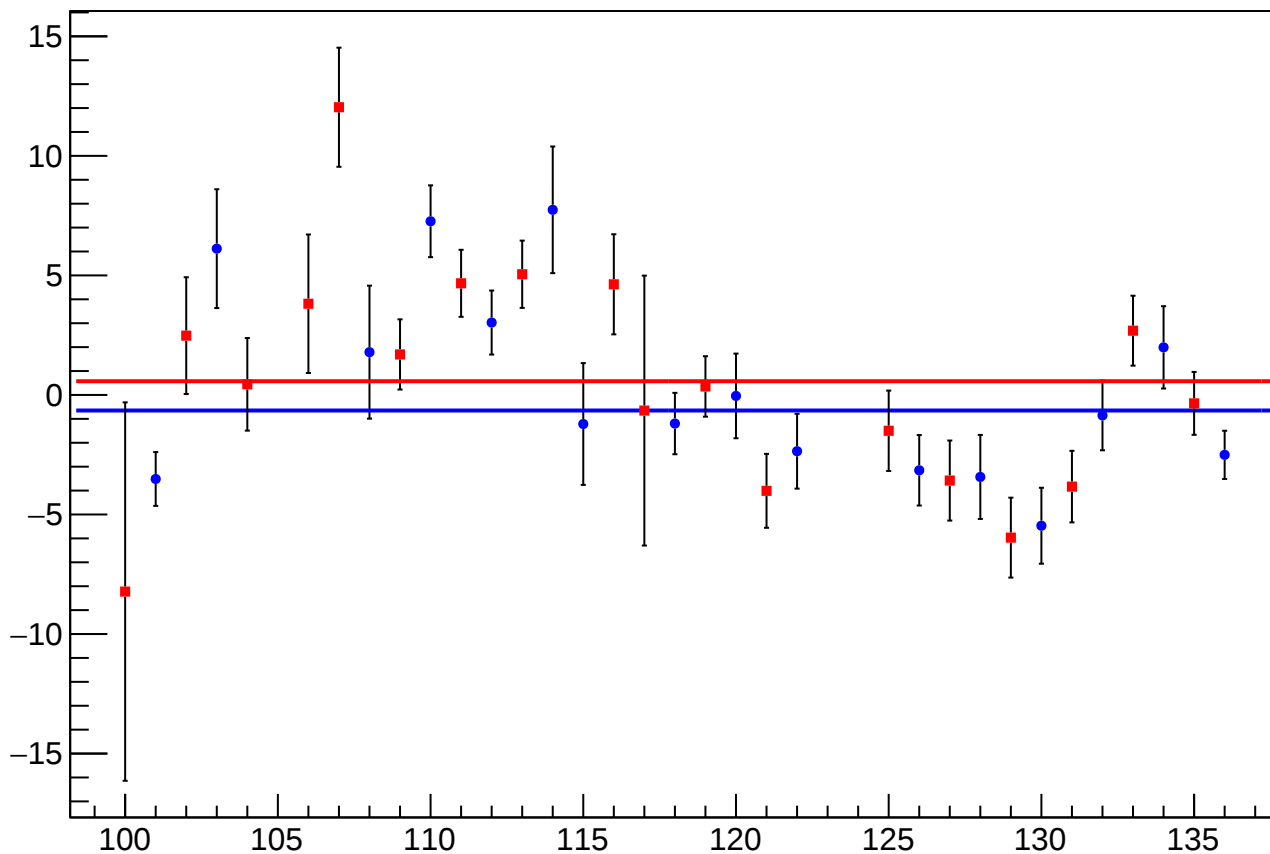
Right Out: -52.408 $\pm$ 0.625  $\chi^2$ /NDF: 234.7/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-52.200 $\pm$ 0.615  $\chi^2$ /NDF: 230.6/15

-52.408 $\pm$ 0.625  $\chi^2$ /NDF: 234.7/17

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -0.651+/-0.387  $\chi^2/\text{NDF}$ : 81.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

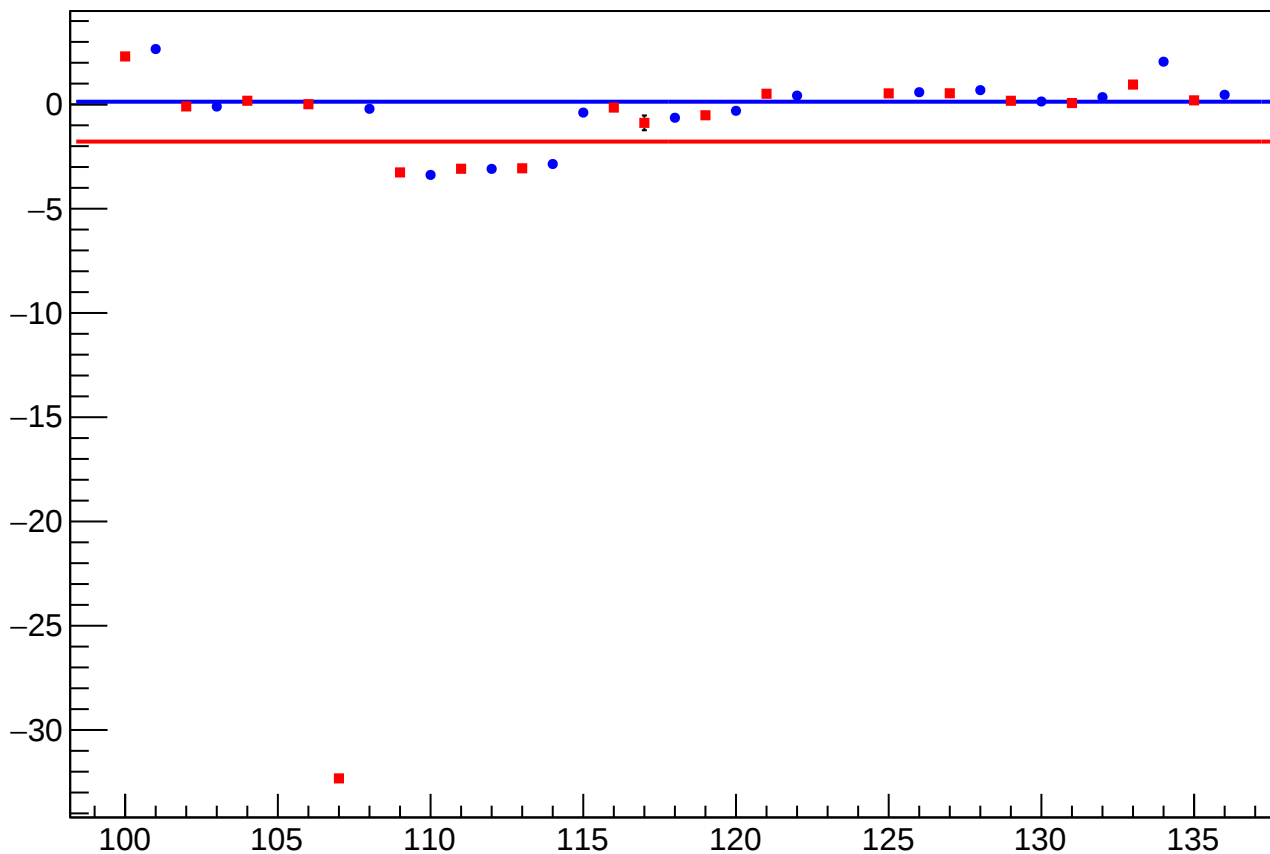
Right Out: 0.574+/-0.406  $\chi^2/\text{NDF}$ : 90.4/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.651+/-0.387  $\chi^2/\text{NDF}$ : 81.9/15

0.574+/-0.406  $\chi^2/\text{NDF}$ : 90.4/17

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.132+/-0.022  $\chi^2/\text{NDF}$ : 5247.5/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

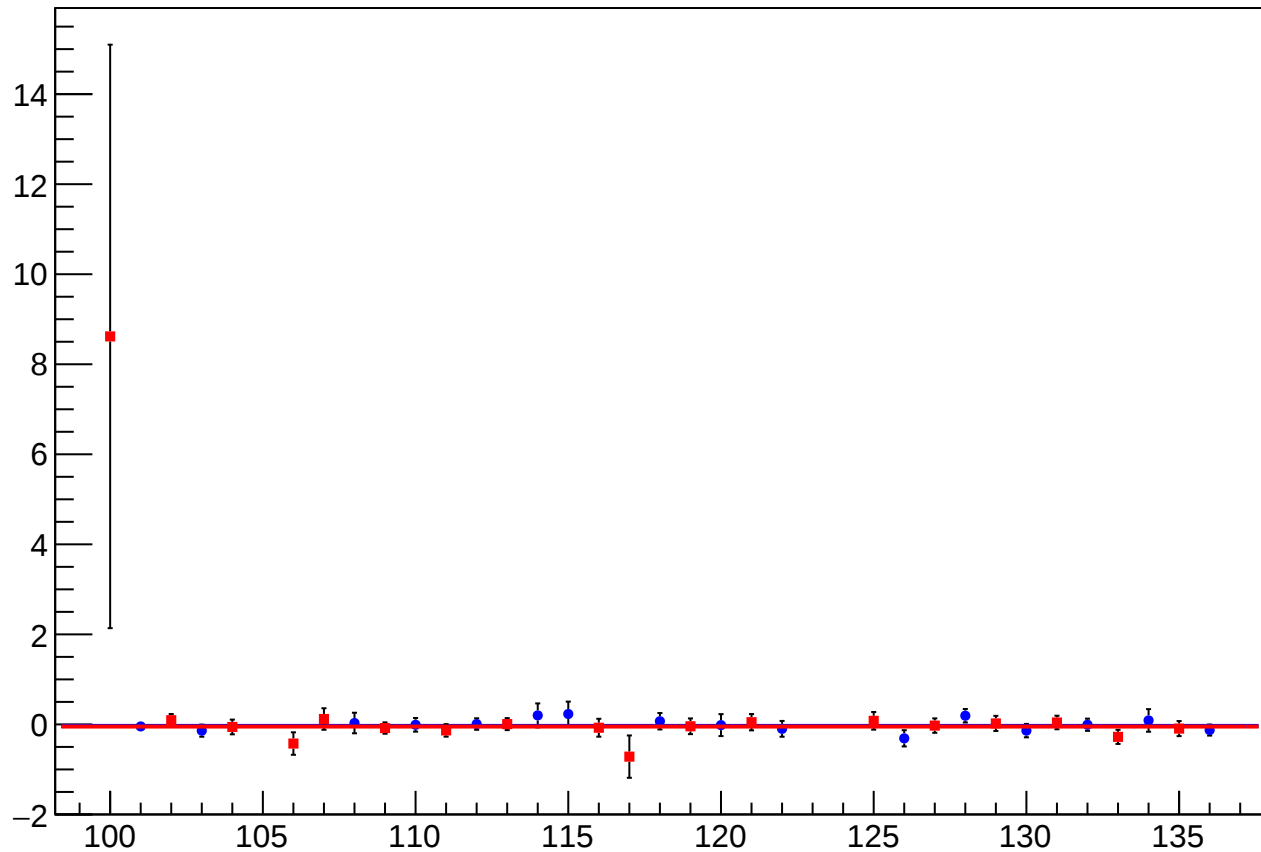
Right Out: -1.780+/-0.022  $\chi^2/\text{NDF}$ : 77160.8/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.132+/-0.022  $\chi^2/\text{NDF}$ : 5247.5/15

-1.780+/-0.022  $\chi^2/\text{NDF}$ : 77160.8/17

# reg\_asym\_ds\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -0.033+/-0.039  $\chi^2/\text{NDF}$ : 9.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

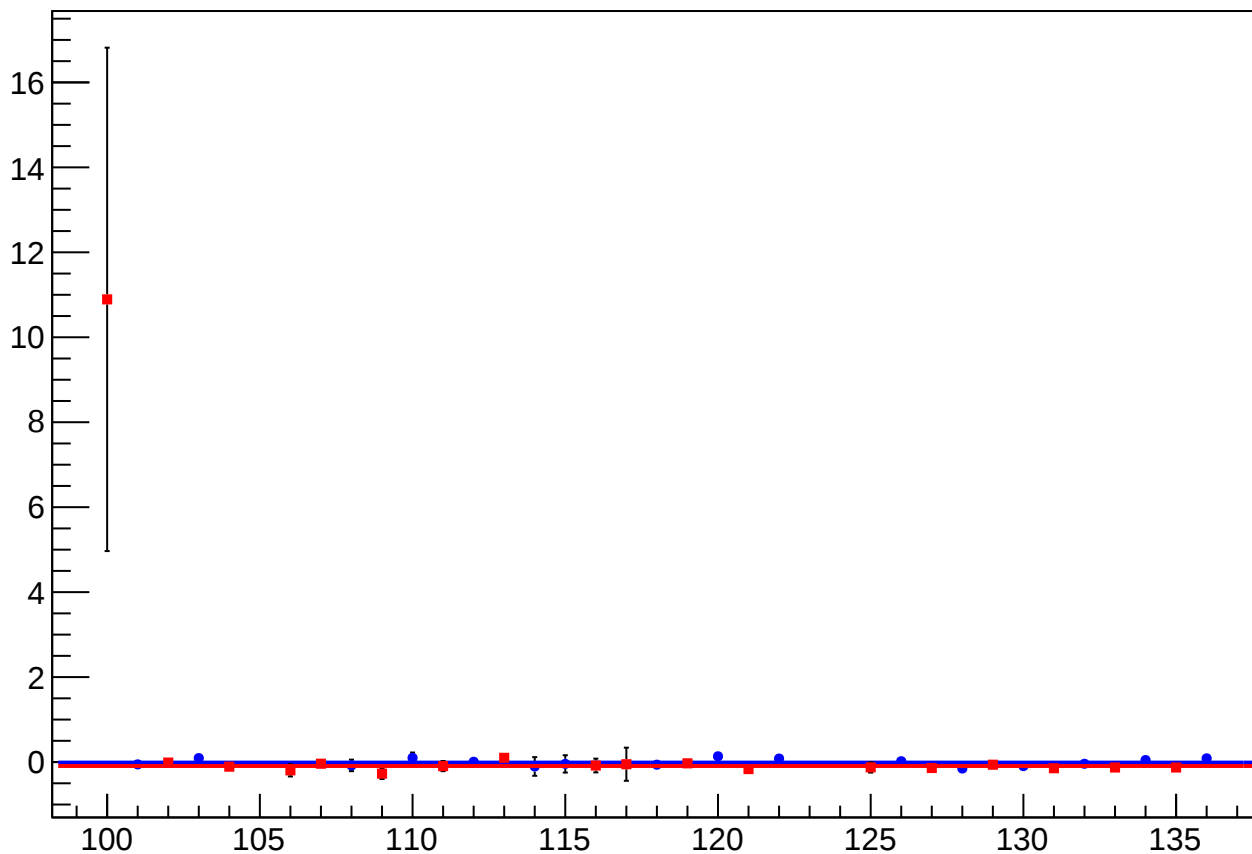
Right Out: -0.048+/-0.041  $\chi^2/\text{NDF}$ : 11.7/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.033+/-0.039  $\chi^2/\text{NDF}$ : 9.0/15

-0.048+/-0.041  $\chi^2/\text{NDF}$ : 11.7/17

# reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -0.013+/-0.023  $\chi^2$ /NDF: 11.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

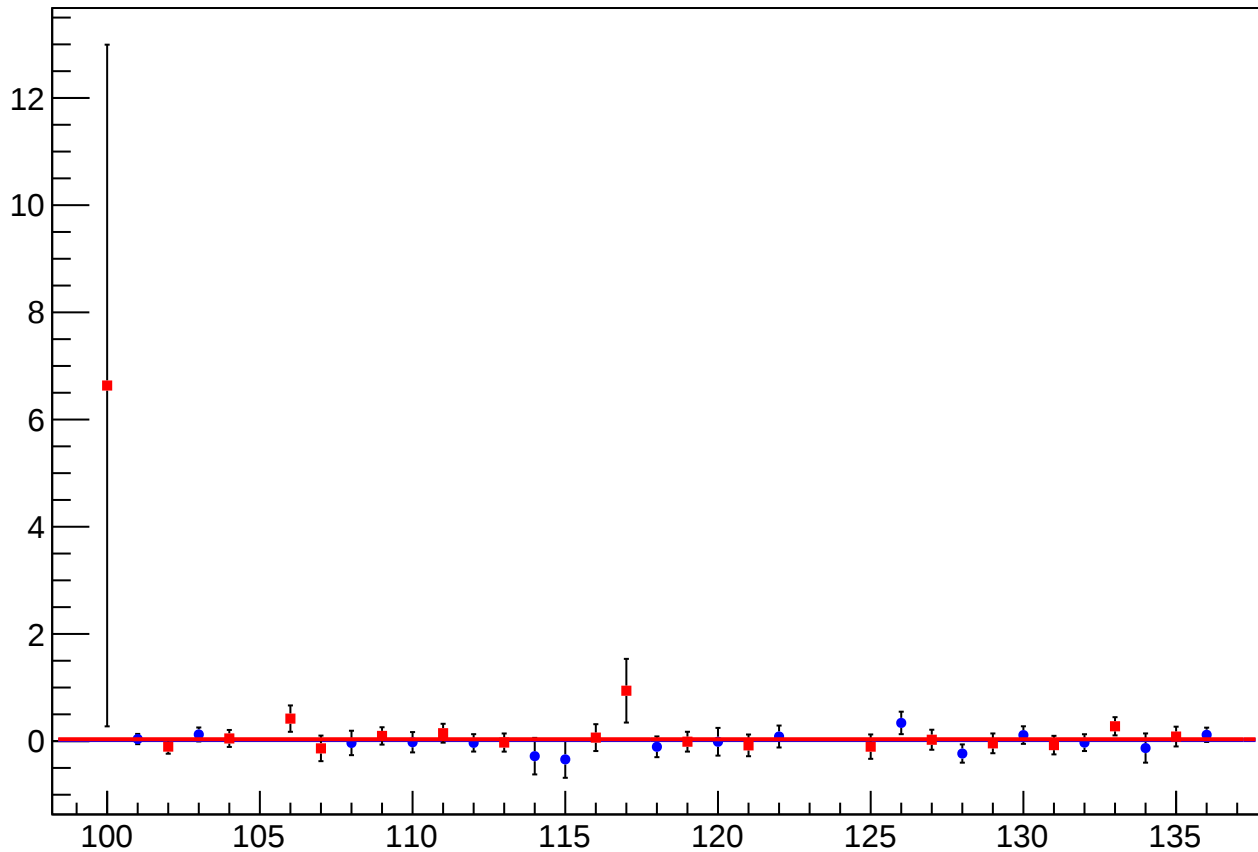
Right Out: -0.092+/-0.025  $\chi^2$ /NDF: 12.1/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.013+/-0.023  $\chi^2$ /NDF: 11.7/15

-0.092+/-0.025  $\chi^2$ /NDF: 12.1/17

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.020+/-0.043  $\chi^2/\text{NDF}$ : 9.1/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

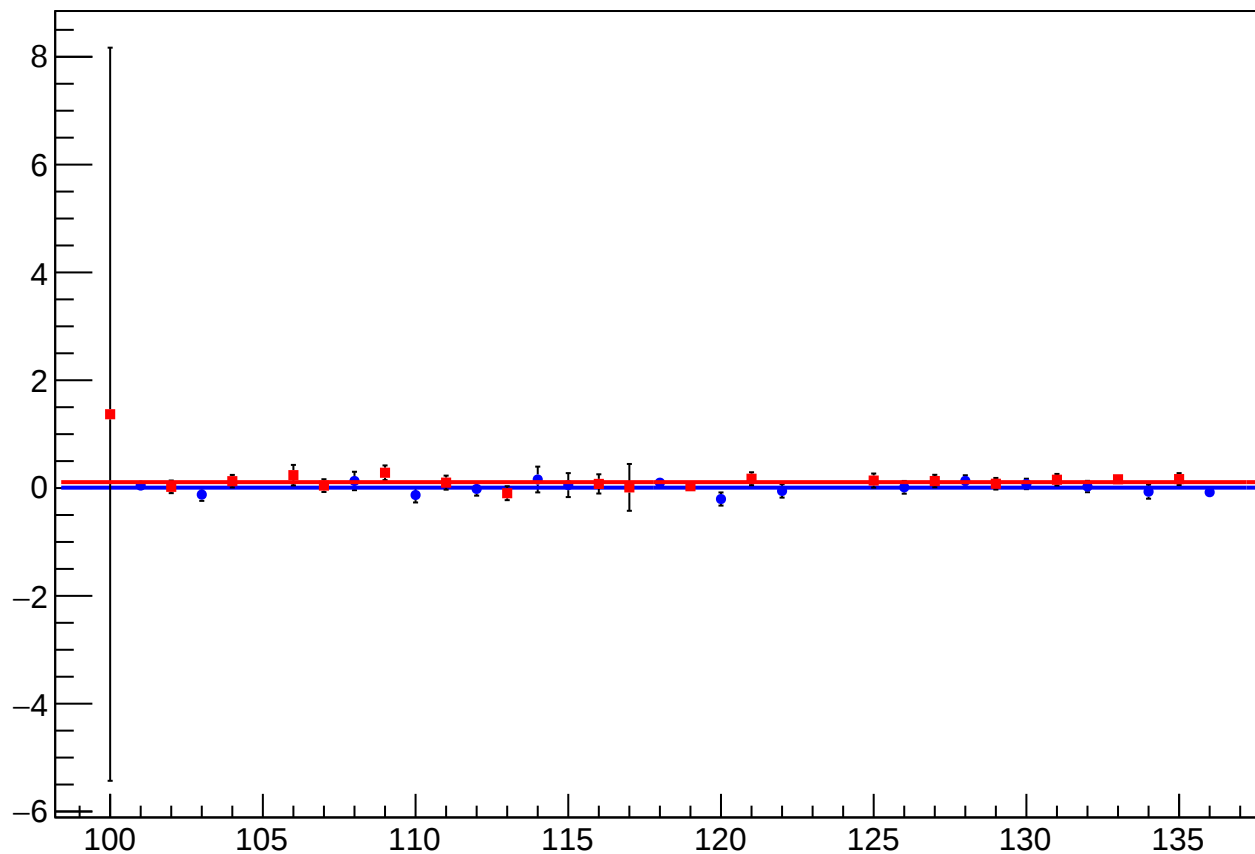
Right Out: 0.035+/-0.045  $\chi^2/\text{NDF}$ : 11.6/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.020+/-0.043  $\chi^2/\text{NDF}$ : 9.1/15

0.035+/-0.045  $\chi^2/\text{NDF}$ : 11.6/17

# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.007 $\pm$ 0.027  $\chi^2$ /NDF: 11.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

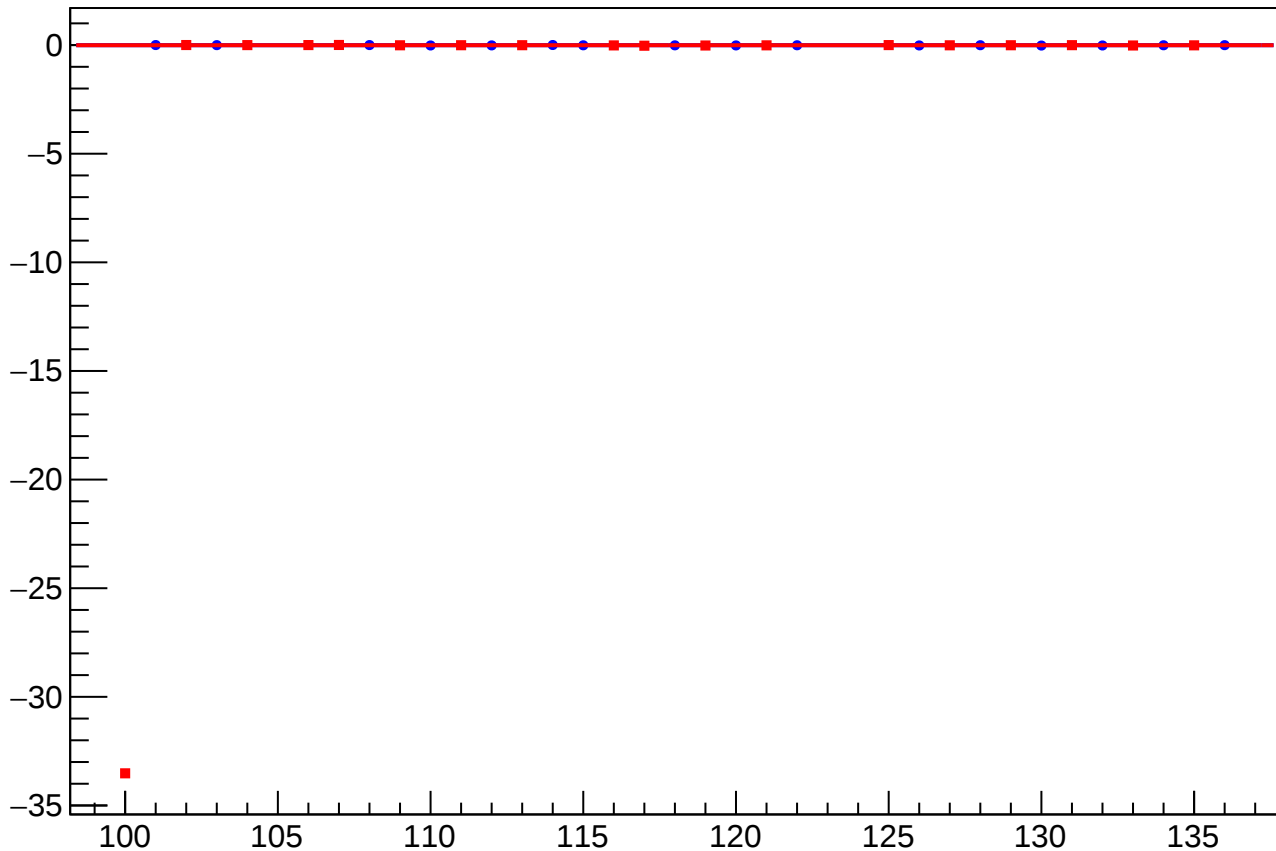
Right Out: 0.110 $\pm$ 0.029  $\chi^2$ /NDF: 7.7/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.007 $\pm$ 0.027  $\chi^2$ /NDF: 11.3/15

0.110 $\pm$ 0.029  $\chi^2$ /NDF: 7.7/17

# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.005+/-0.001  $\chi^2$ /NDF: 21.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

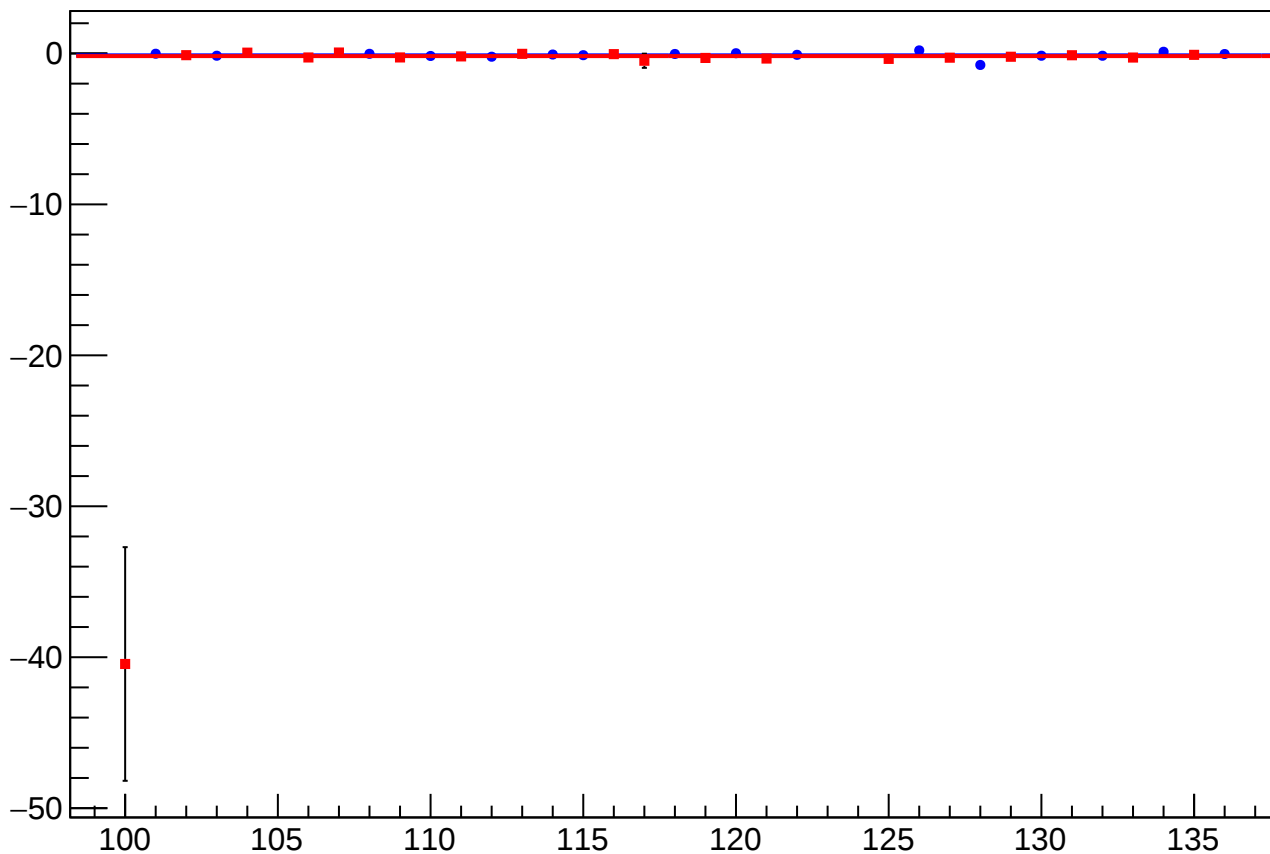
Right Out: -0.006+/-0.001  $\chi^2$ /NDF: 26508.8/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.005+/-0.001  $\chi^2$ /NDF: 21.8/15

-0.006+/-0.001  $\chi^2$ /NDF: 26508.8/17

# reg\_asym\_ds\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -0.127+/-0.039  $\chi^2$ /NDF: 25.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

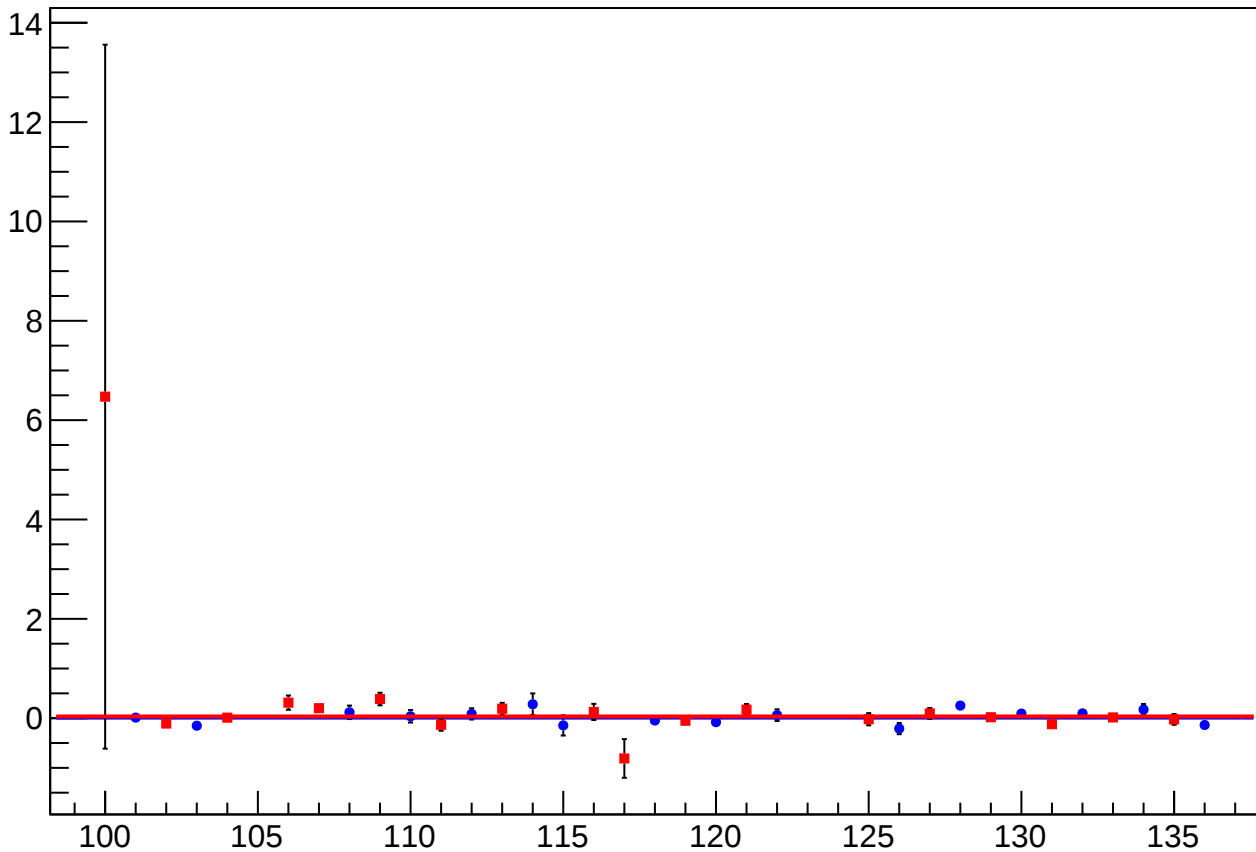
Right Out: -0.176+/-0.041  $\chi^2$ /NDF: 36.4/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.127+/-0.039  $\chi^2$ /NDF: 25.5/15

-0.176+/-0.041  $\chi^2$ /NDF: 36.4/17

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.012 $\pm$ 0.023  $\chi^2$ /NDF: 25.0/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

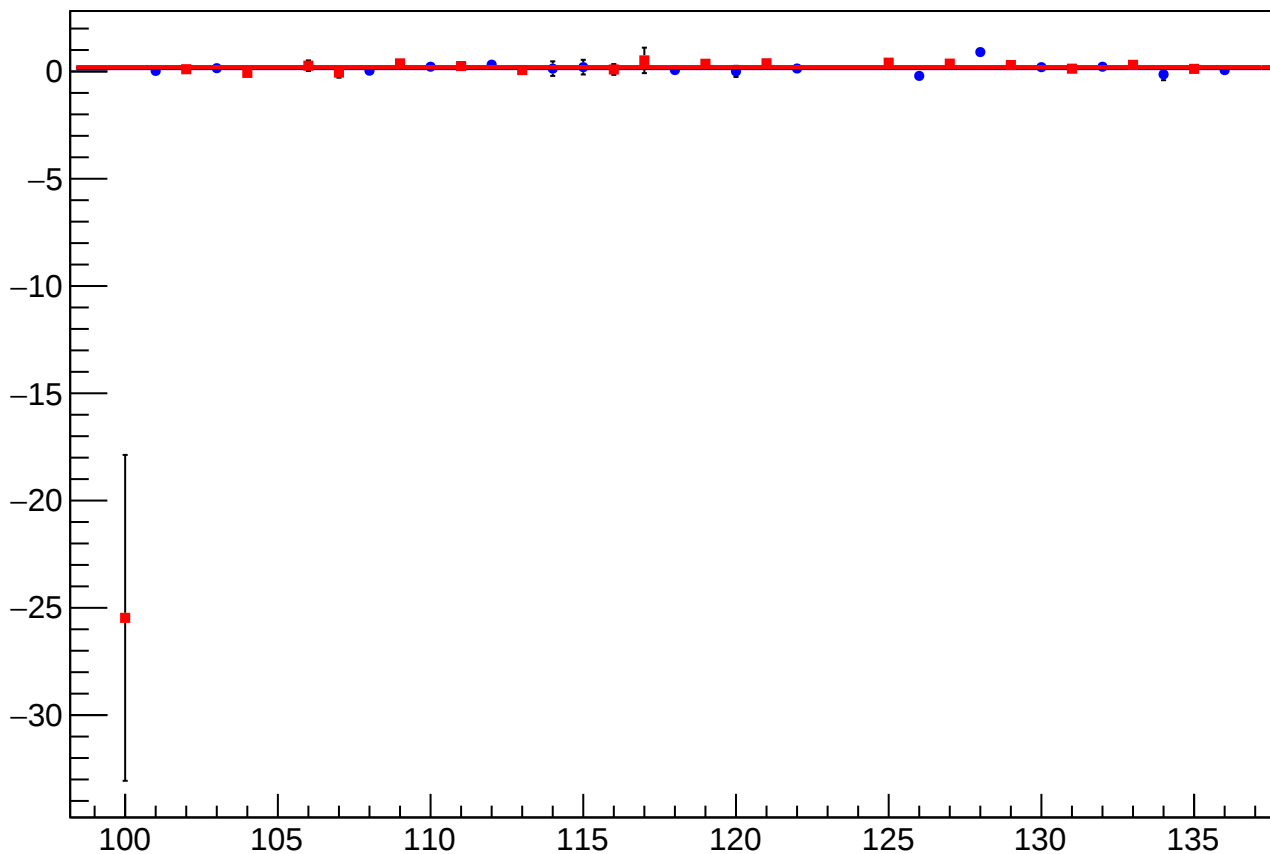
Right Out: 0.035 $\pm$ 0.025  $\chi^2$ /NDF: 33.2/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.012 $\pm$ 0.023  $\chi^2$ /NDF: 25.0/15

0.035 $\pm$ 0.025  $\chi^2$ /NDF: 33.2/17

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.154+/-0.043     $\chi^2/\text{NDF}$ : 27.9/15

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

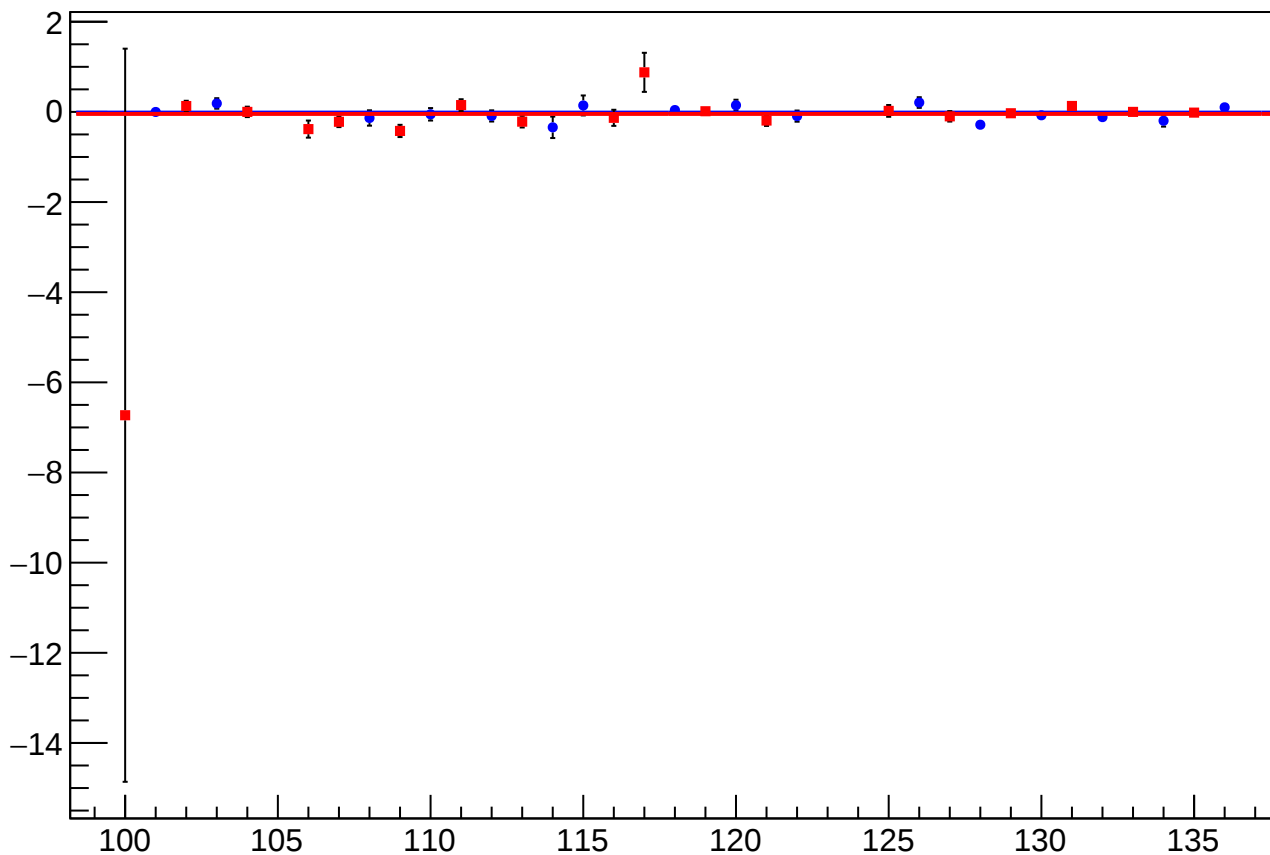
Right Out: 0.207+/-0.045     $\chi^2/\text{NDF}$ : 22.6/17

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.154+/-0.043     $\chi^2/\text{NDF}$ : 27.9/15

0.207+/-0.045     $\chi^2/\text{NDF}$ : 22.6/17

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -0.016+/-0.027  $\chi^2$ /NDF: 24.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

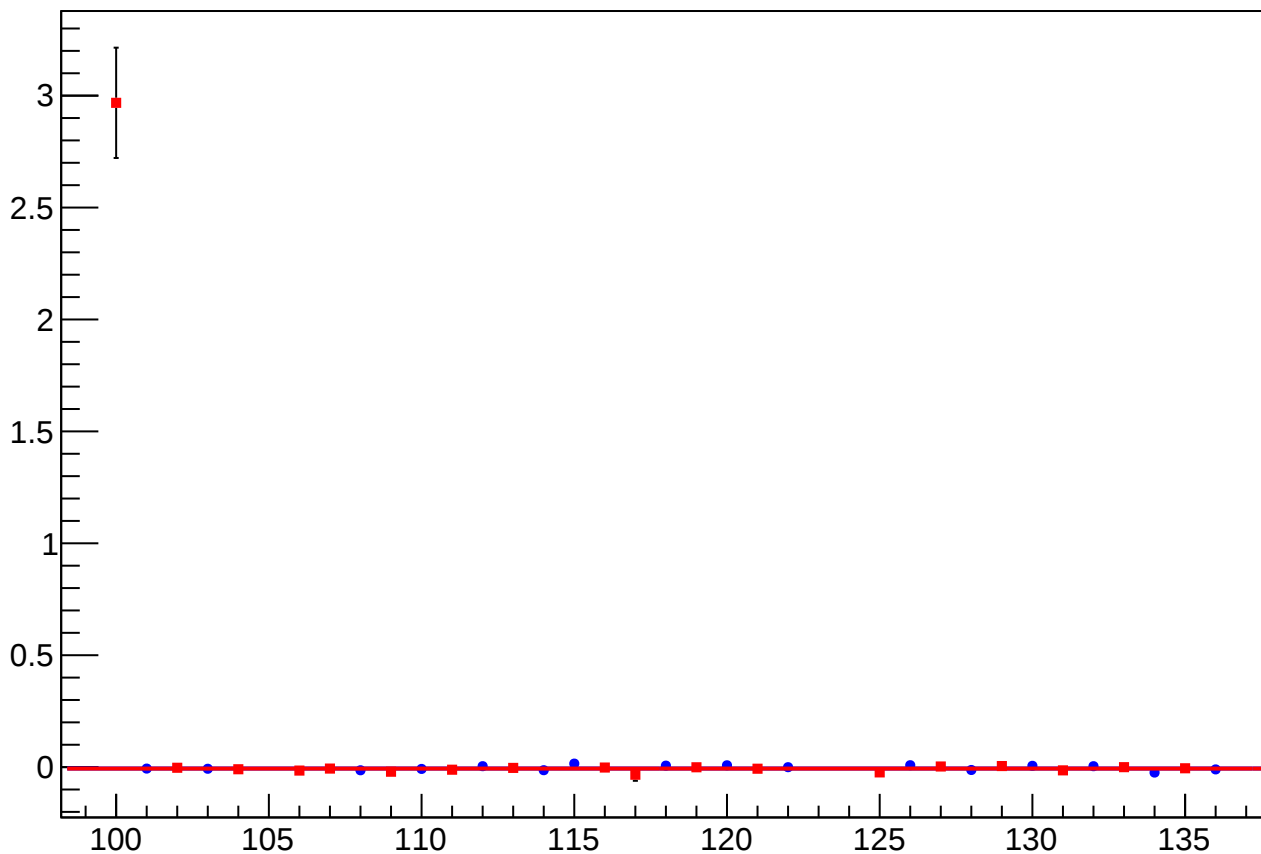
Right Out: -0.044+/-0.029  $\chi^2$ /NDF: 30.5/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.016+/-0.027  $\chi^2$ /NDF: 24.3/15

-0.044+/-0.029  $\chi^2$ /NDF: 30.5/17

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.006 $\pm$ 0.001  $\chi^2$ /NDF: 27.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

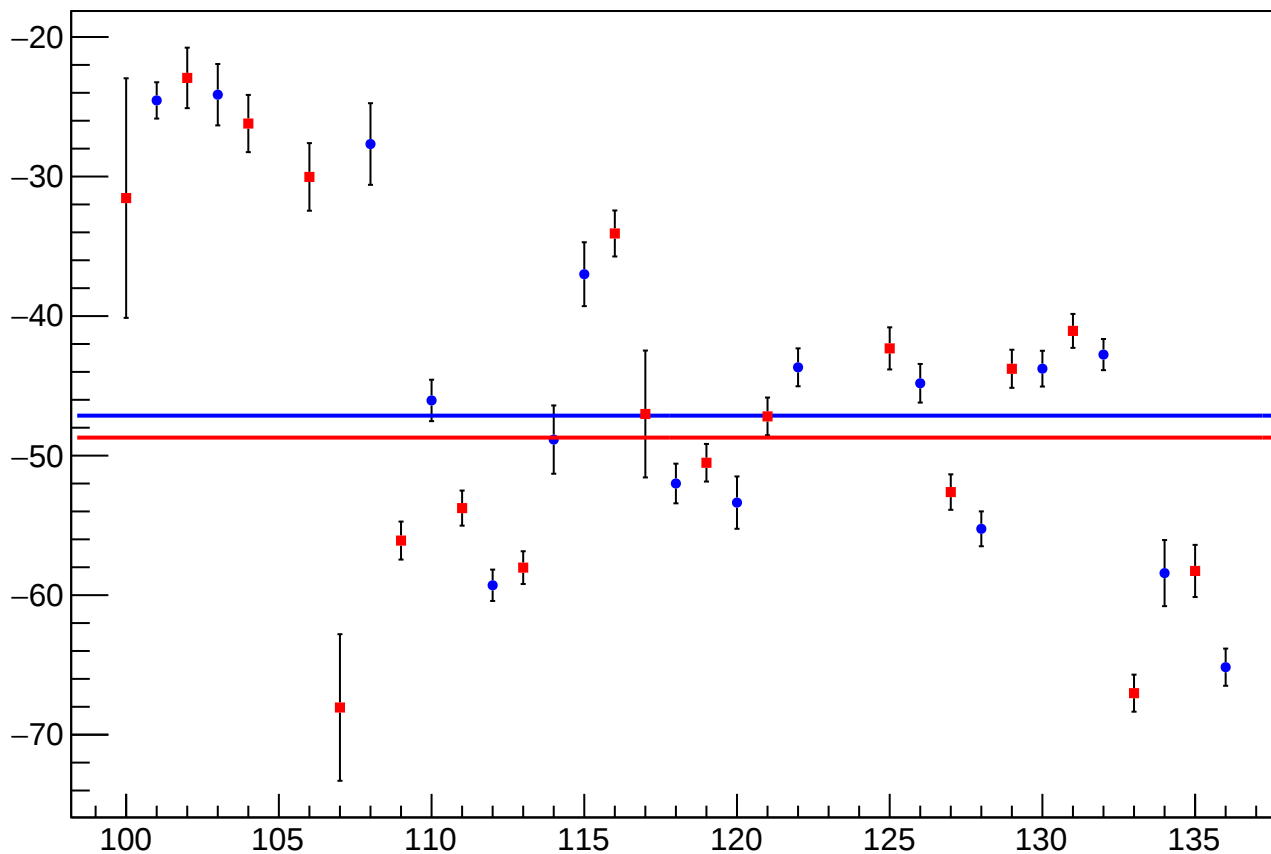
Right Out: -0.007 $\pm$ 0.001  $\chi^2$ /NDF: 164.3/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.006 $\pm$ 0.001  $\chi^2$ /NDF: 27.3/15

-0.007 $\pm$ 0.001  $\chi^2$ /NDF: 164.3/17

# reg\_asym\_left\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -47.135+/-0.374  $\chi^2/\text{NDF}$ : 894.5/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

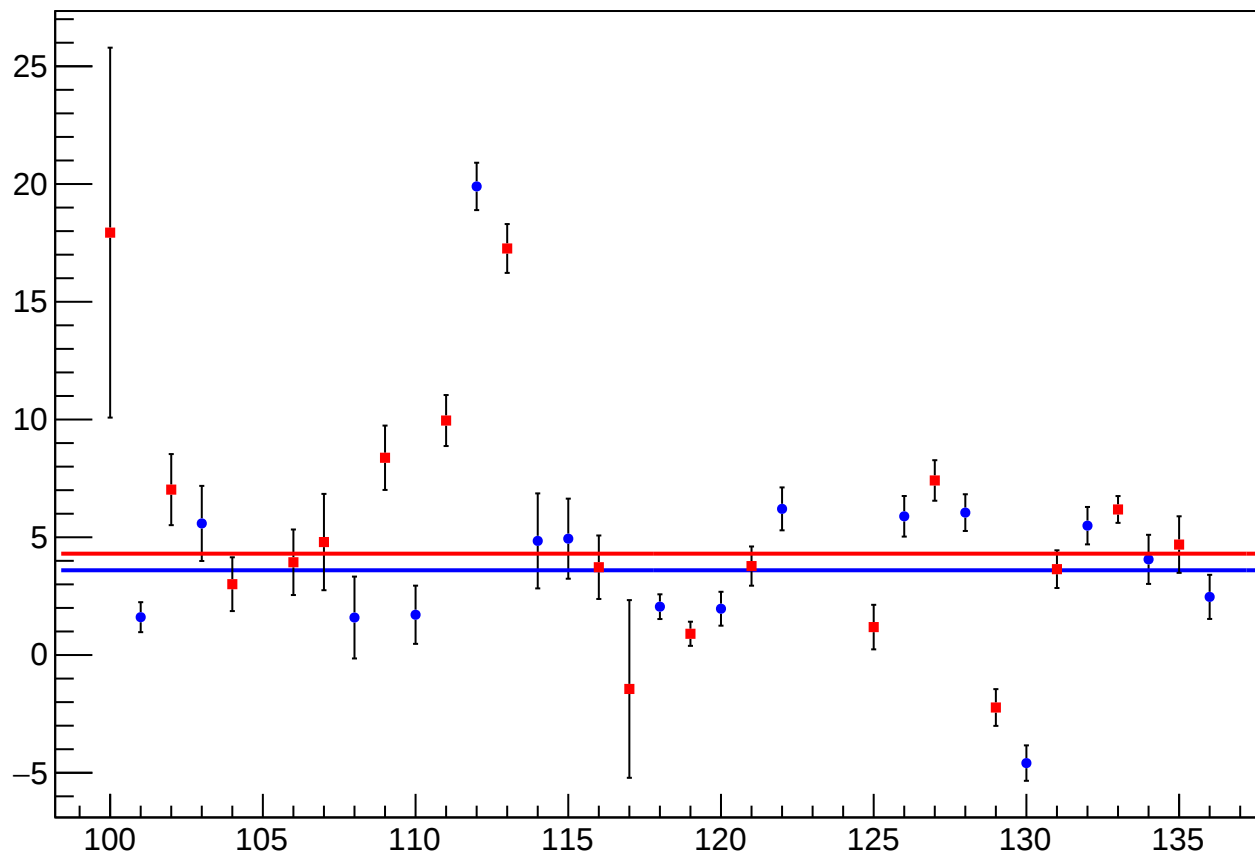
Right Out: -48.708+/-0.373  $\chi^2/\text{NDF}$ : 825.9/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-47.135+/-0.374  $\chi^2/\text{NDF}$ : 894.5/15

-48.708+/-0.373  $\chi^2/\text{NDF}$ : 825.9/17

# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.599+/-0.220  $\chi^2/\text{NDF}$ : 443.4/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

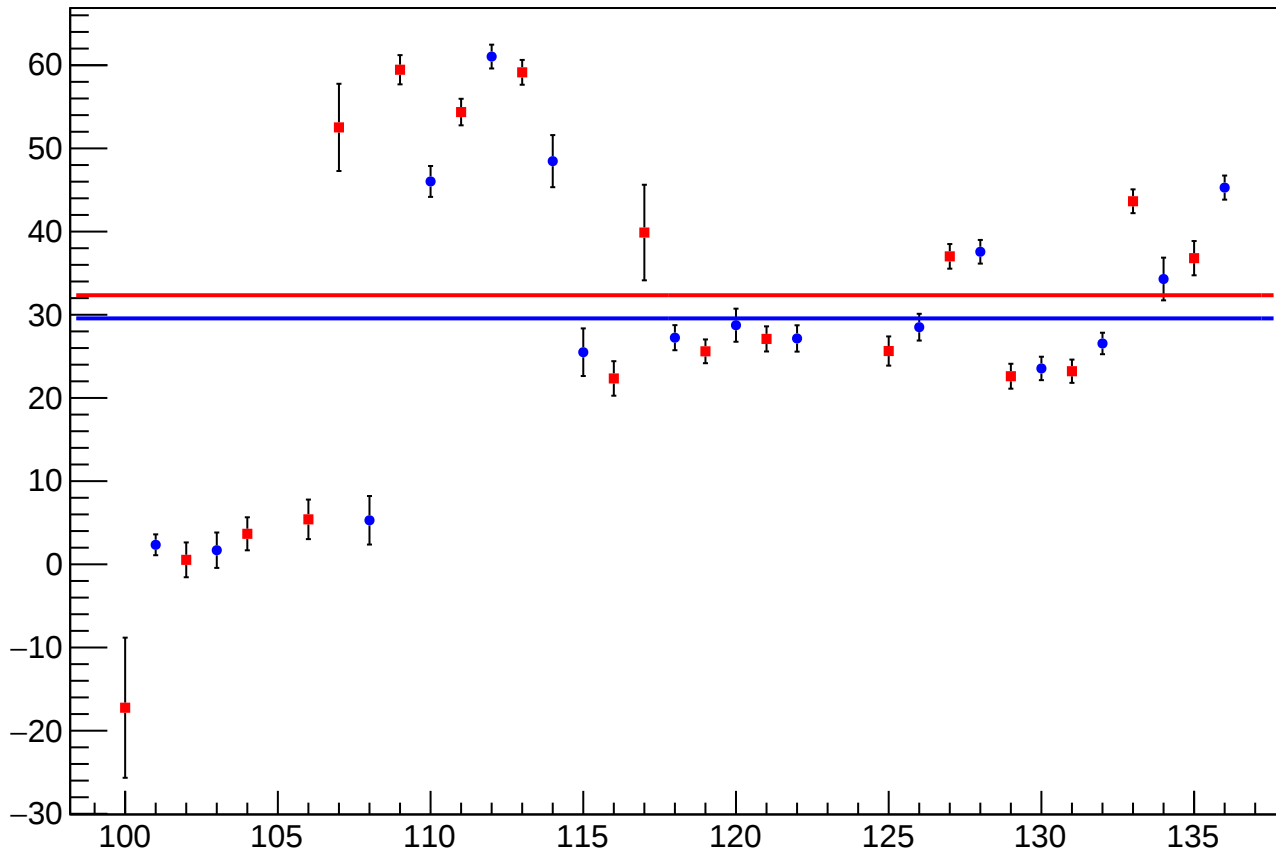
Right Out: 4.304+/-0.226  $\chi^2/\text{NDF}$ : 352.5/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.599+/-0.220  $\chi^2/\text{NDF}$ : 443.4/15

4.304+/-0.226  $\chi^2/\text{NDF}$ : 352.5/17

# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 29.564+/-0.420  $\chi^2$ /NDF: 1494.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

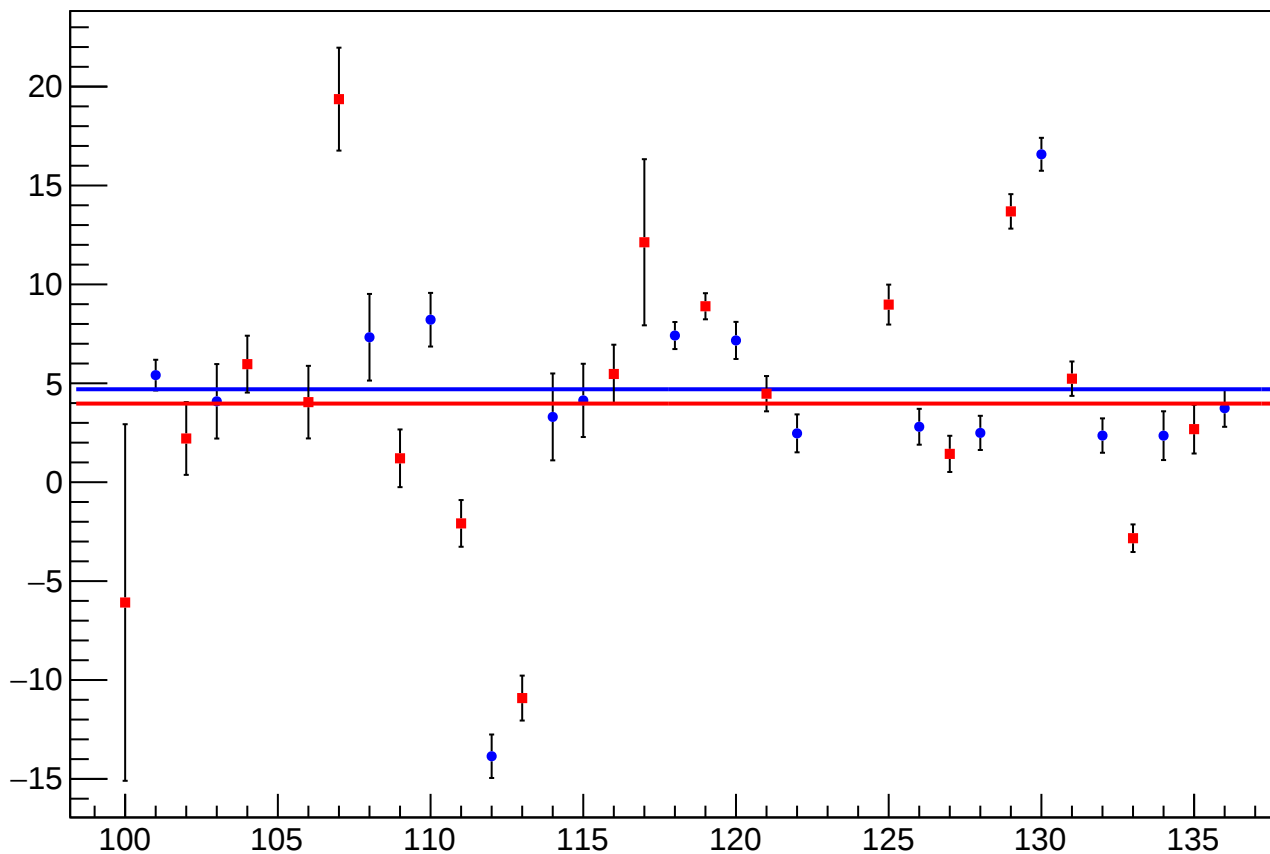
Right Out: 32.349+/-0.425  $\chi^2$ /NDF: 1604.8/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

29.564+/-0.420  $\chi^2$ /NDF: 1494.6/15

32.349+/-0.425  $\chi^2$ /NDF: 1604.8/17

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 4.699+/-0.254  $\chi^2/\text{NDF}$ : 548.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

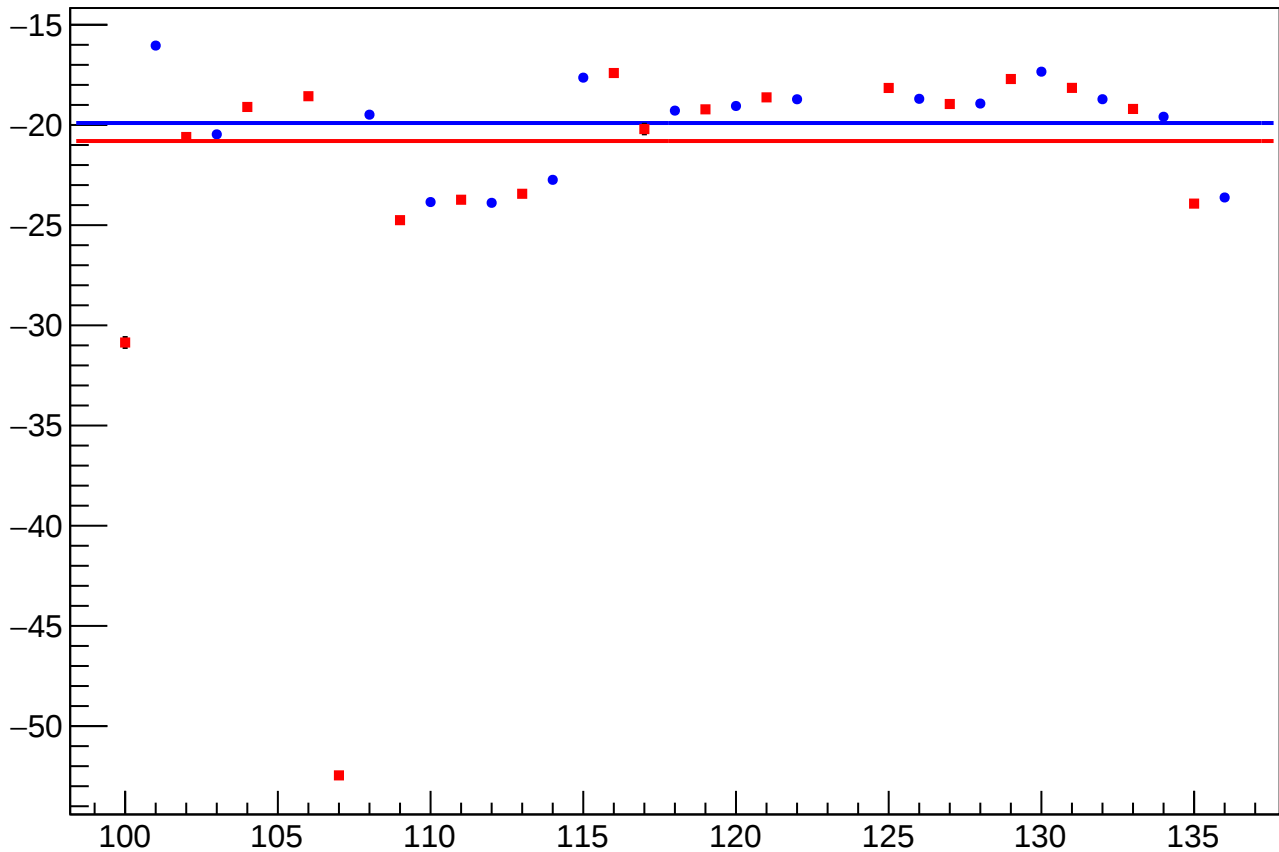
Right Out: 3.975+/-0.260  $\chi^2/\text{NDF}$ : 556.3/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.699+/-0.254  $\chi^2/\text{NDF}$ : 548.9/15

3.975+/-0.260  $\chi^2/\text{NDF}$ : 556.3/17

# reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.902 \pm 0.016$   $\chi^2/\text{NDF}: 26054.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

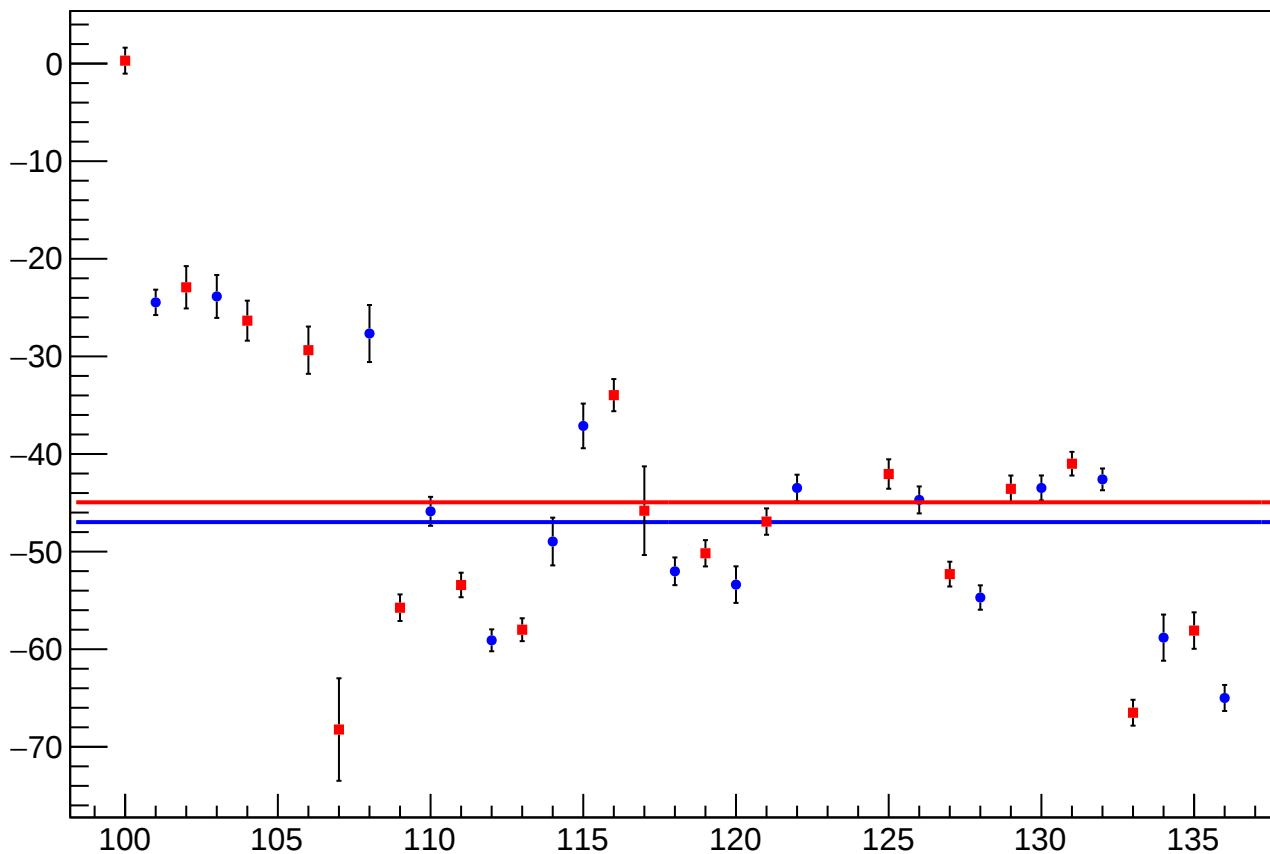
Right Out:  $-20.801 \pm 0.016$   $\chi^2/\text{NDF}: 92098.9/17$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-19.902 \pm 0.016$   $\chi^2/\text{NDF}: 26054.0/15$

$-20.801 \pm 0.016$   $\chi^2/\text{NDF}: 92098.9/17$

# reg\_asym\_left\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -46.978 $\pm$ 0.374  $\chi^2$ /NDF: 892.4/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

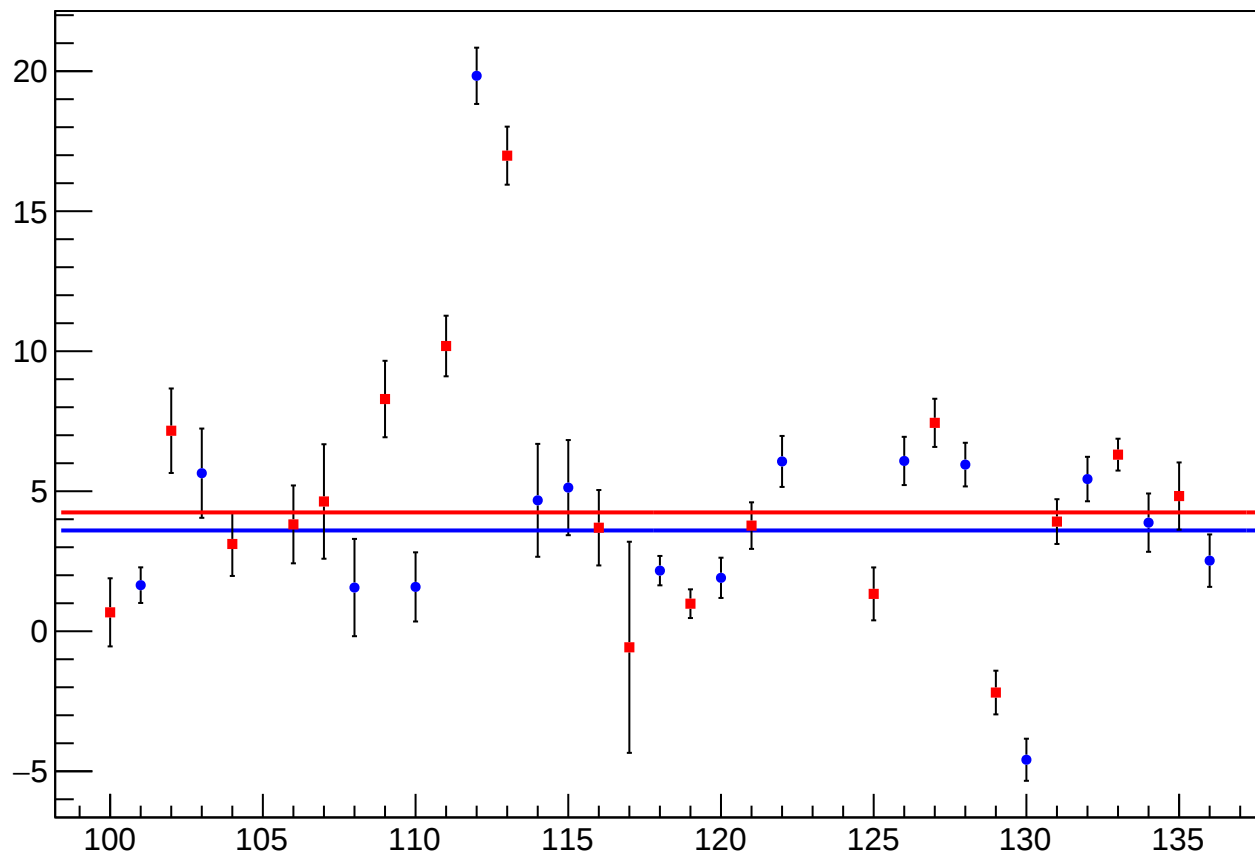
Right Out: -44.947 $\pm$ 0.359  $\chi^2$ /NDF: 2060.7/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-46.978 $\pm$ 0.374  $\chi^2$ /NDF: 892.4/15

-44.947 $\pm$ 0.359  $\chi^2$ /NDF: 2060.7/17

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 3.599 $\pm$ 0.220  $\chi^2$ /NDF: 440.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

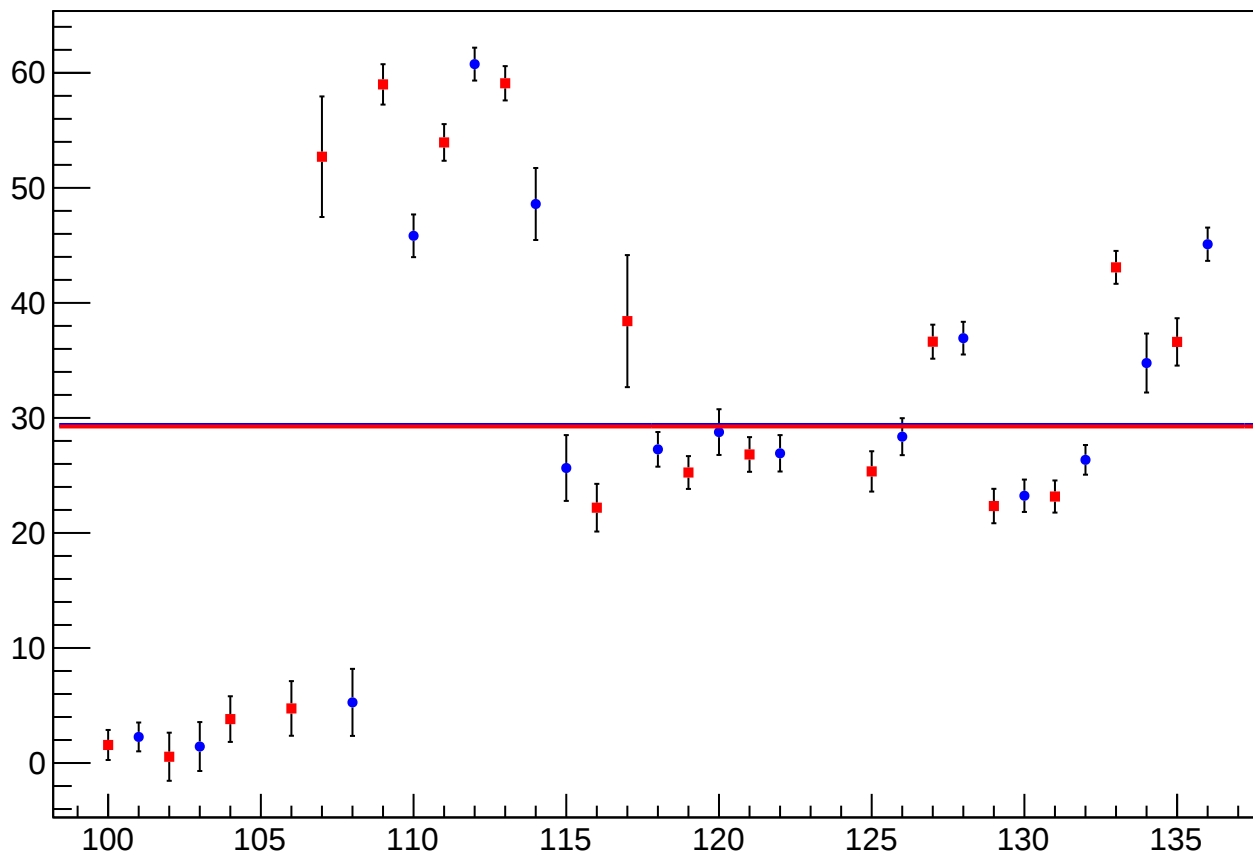
Right Out: 4.244 $\pm$ 0.222  $\chi^2$ /NDF: 351.0/17

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3.599 $\pm$ 0.220  $\chi^2$ /NDF: 440.3/15

4.244 $\pm$ 0.222  $\chi^2$ /NDF: 351.0/17

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.387+/-0.419  $\chi^2/\text{NDF}$ : 1488.6/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

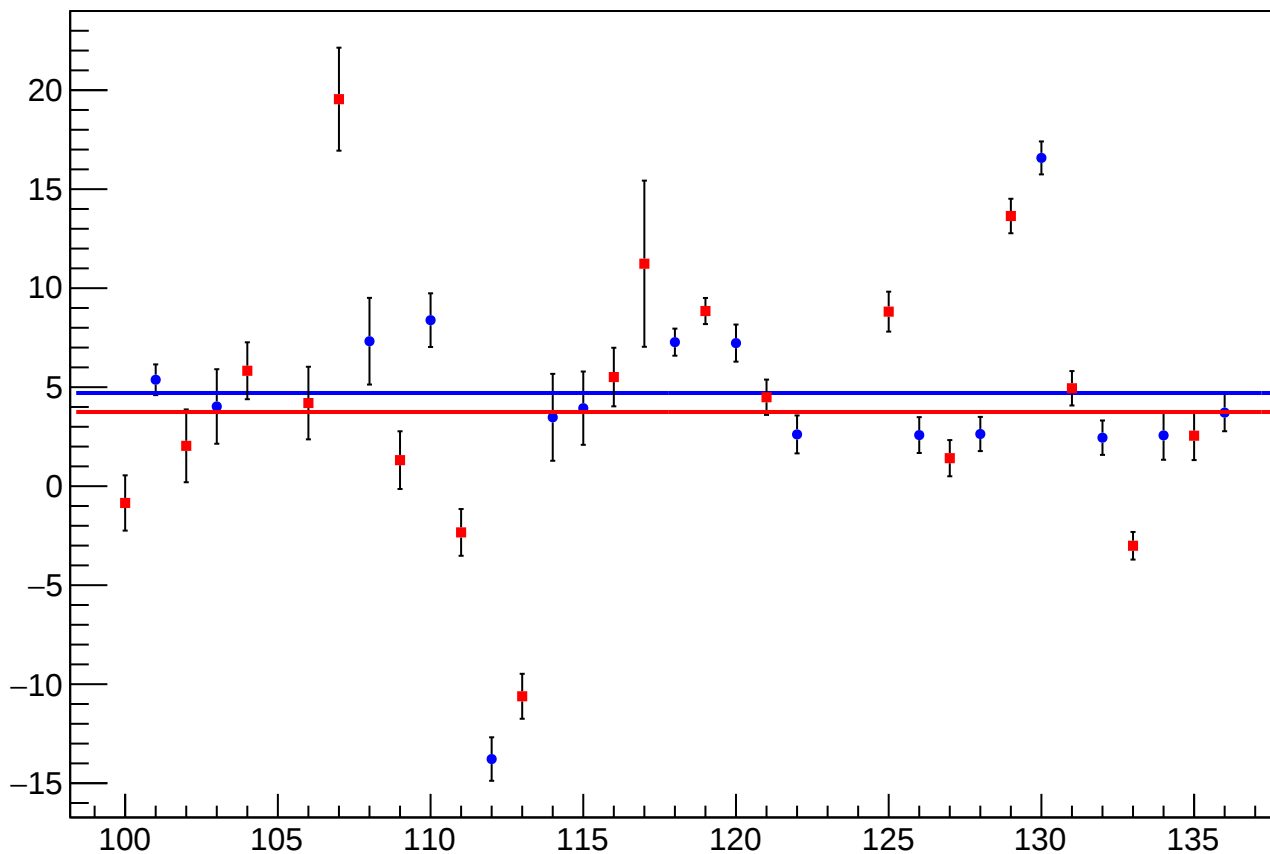
Right Out: 29.258+/-0.405  $\chi^2/\text{NDF}$ : 2058.0/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

29.387+/-0.419  $\chi^2/\text{NDF}$ : 1488.6/15

29.258+/-0.405  $\chi^2/\text{NDF}$ : 2058.0/17

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 4.706+/-0.254  $\chi^2/\text{NDF}$ : 545.2/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

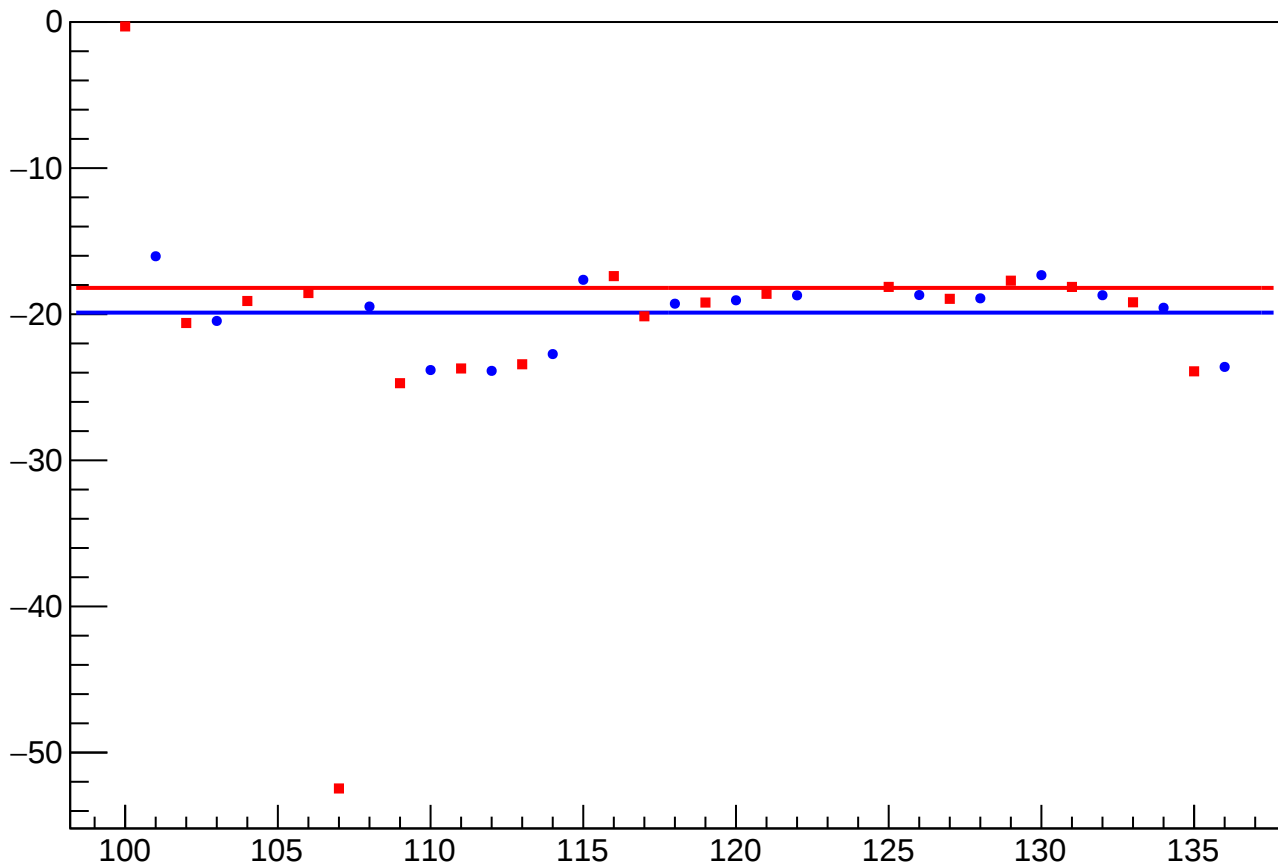
Right Out: 3.747+/-0.256  $\chi^2/\text{NDF}$ : 562.7/17

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.706+/-0.254  $\chi^2/\text{NDF}$ : 545.2/15

3.747+/-0.256  $\chi^2/\text{NDF}$ : 562.7/17

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.890 \pm 0.016$   $\chi^2/\text{NDF}: 26044.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

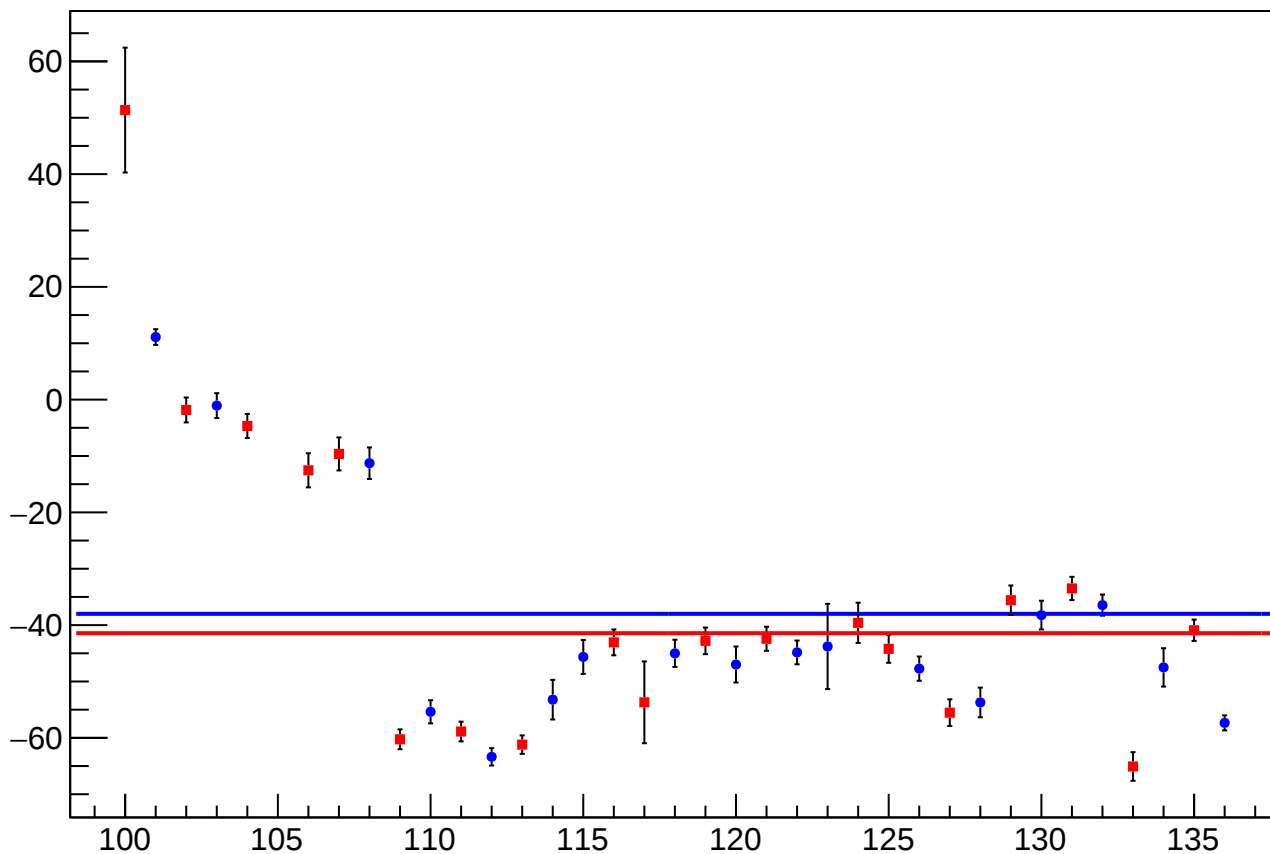
Right Out:  $-18.198 \pm 0.015$   $\chi^2/\text{NDF}: 295620.6/17$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-19.890 \pm 0.016$   $\chi^2/\text{NDF}: 26044.4/15$

$-18.198 \pm 0.015$   $\chi^2/\text{NDF}: 295620.6/17$

# reg\_asym\_right\_avg\_diff\_bpm4aX\_slope vs Slug



Right In:  $-37.999 \pm 0.523$   $\chi^2/\text{NDF}$ : 2279.0/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

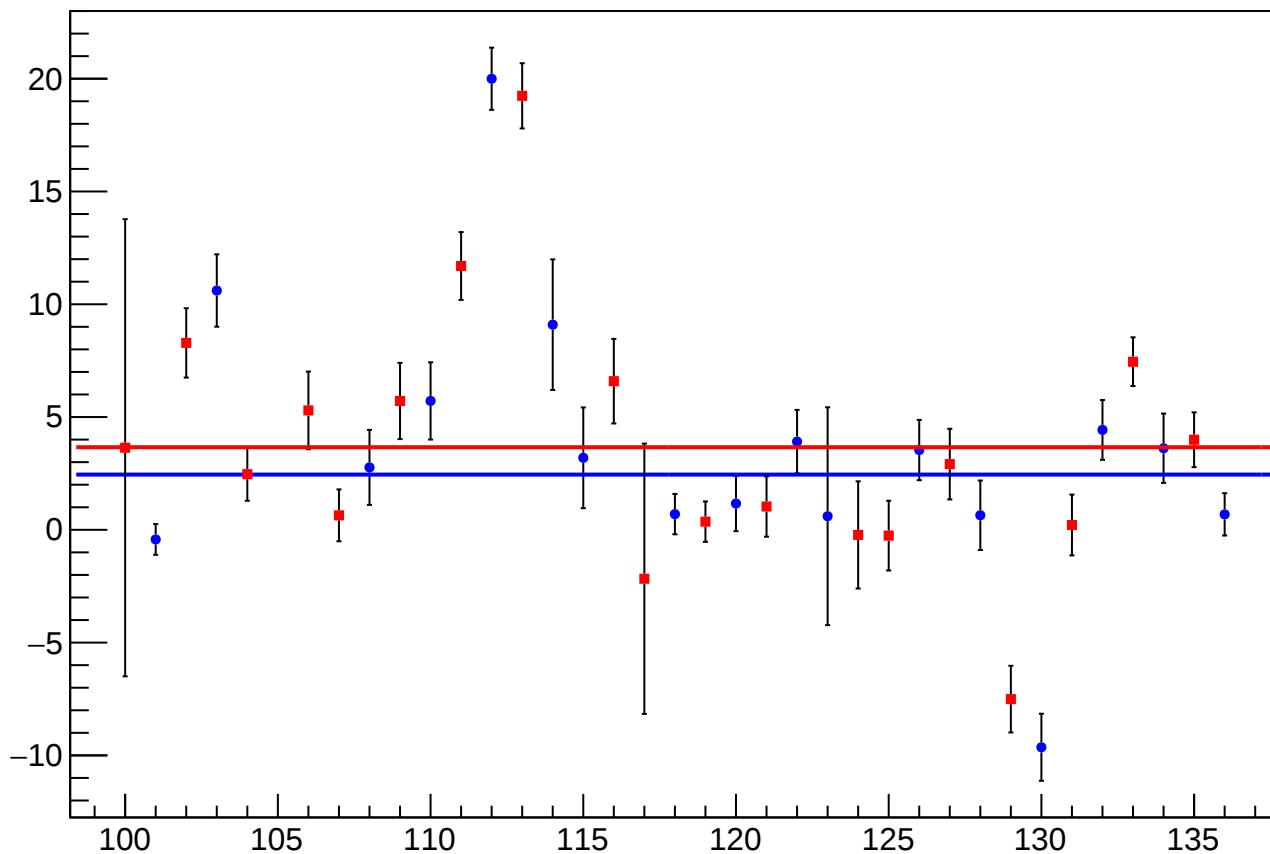
Right Out:  $-41.430 \pm 0.532$   $\chi^2/\text{NDF}$ : 1405.1/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-37.999 \pm 0.523$   $\chi^2/\text{NDF}$ : 2279.0/16

$-41.430 \pm 0.532$   $\chi^2/\text{NDF}$ : 1405.1/18

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 2.449+/-0.314  $\chi^2/\text{NDF}$ : 295.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

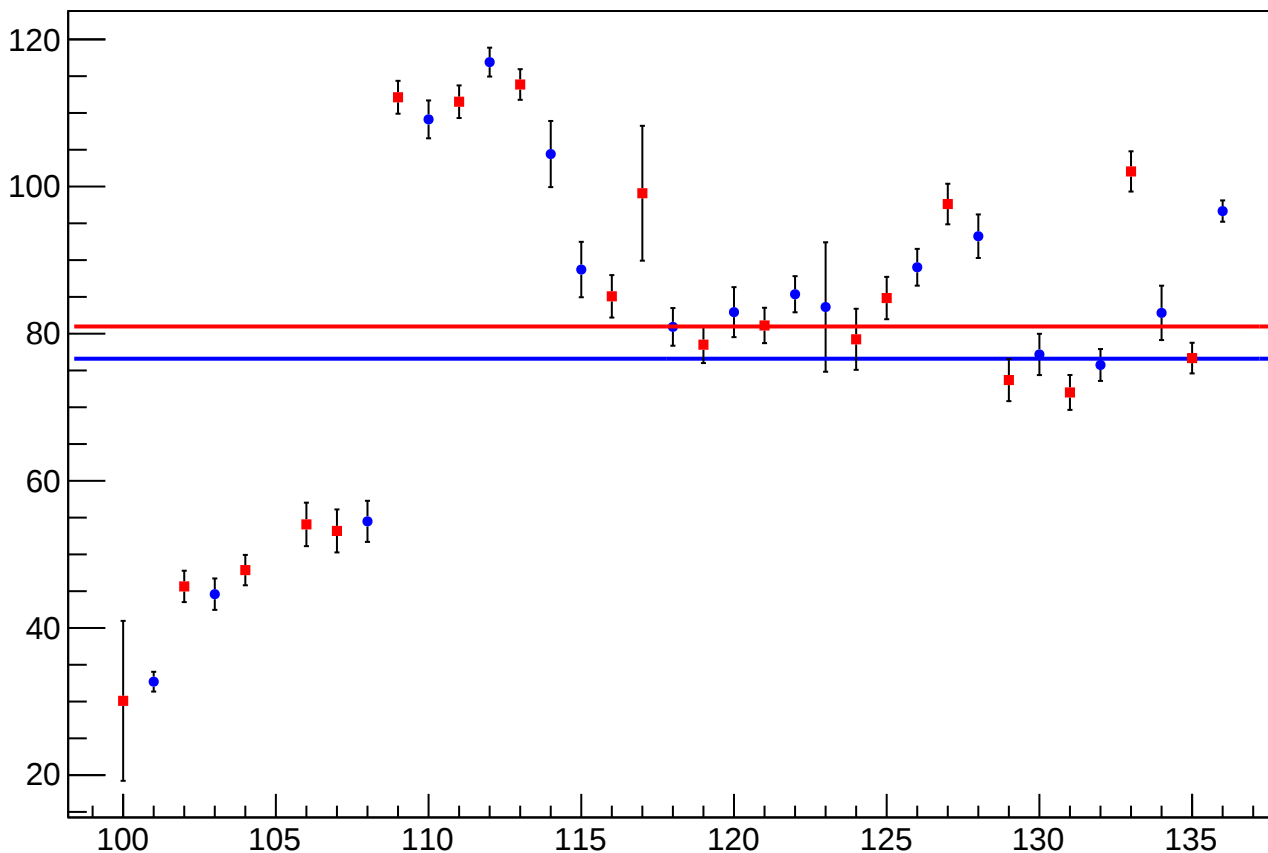
Right Out: 3.662+/-0.330  $\chi^2/\text{NDF}$ : 270.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.449+/-0.314  $\chi^2/\text{NDF}$ : 295.3/16

3.662+/-0.330  $\chi^2/\text{NDF}$ : 270.1/18

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 76.598+/-0.576  $\chi^2$ /NDF: 2255.1/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

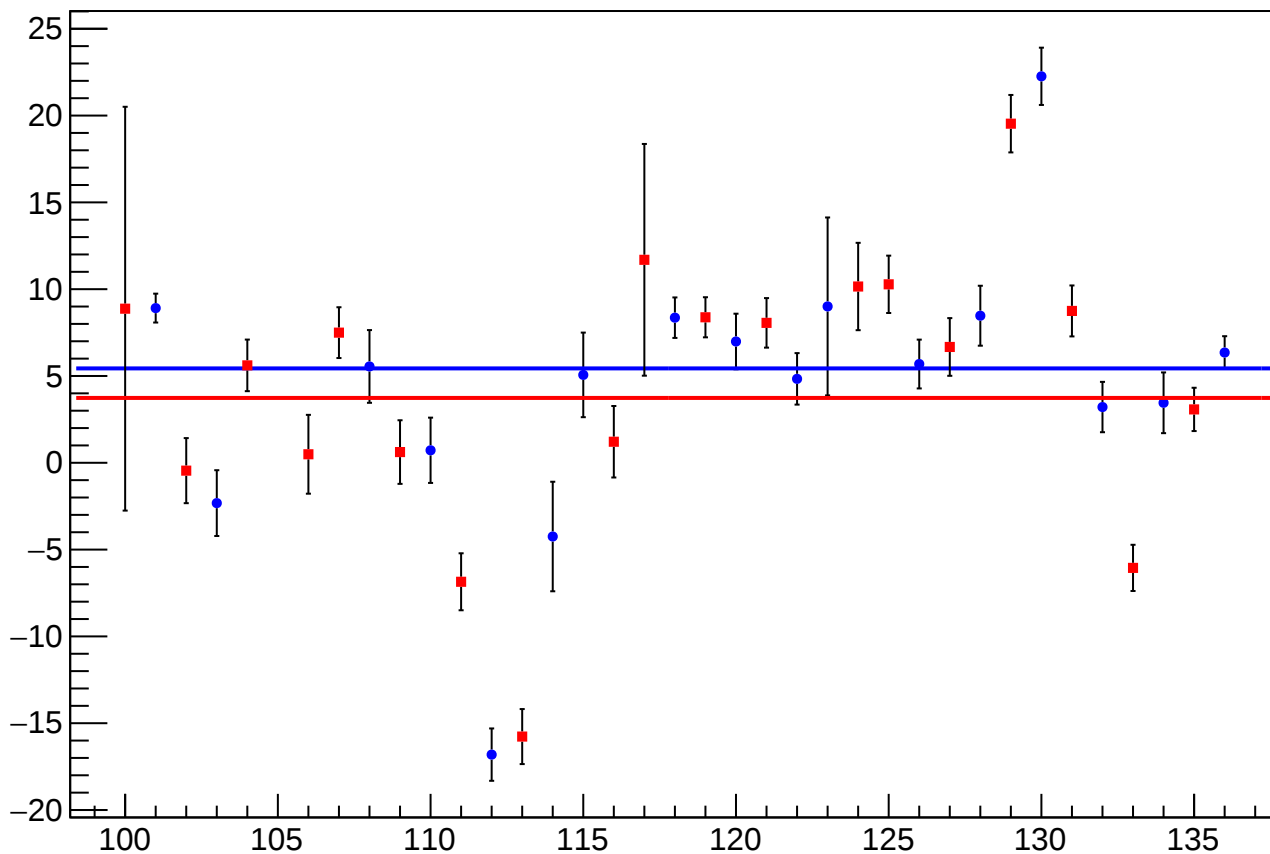
Right Out: 80.978+/-0.601  $\chi^2$ /NDF: 1490.5/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

76.598+/-0.576  $\chi^2$ /NDF: 2255.1/16

80.978+/-0.601  $\chi^2$ /NDF: 1490.5/18

# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 5.436+/-0.360  $\chi^2/\text{NDF}$ : 387.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

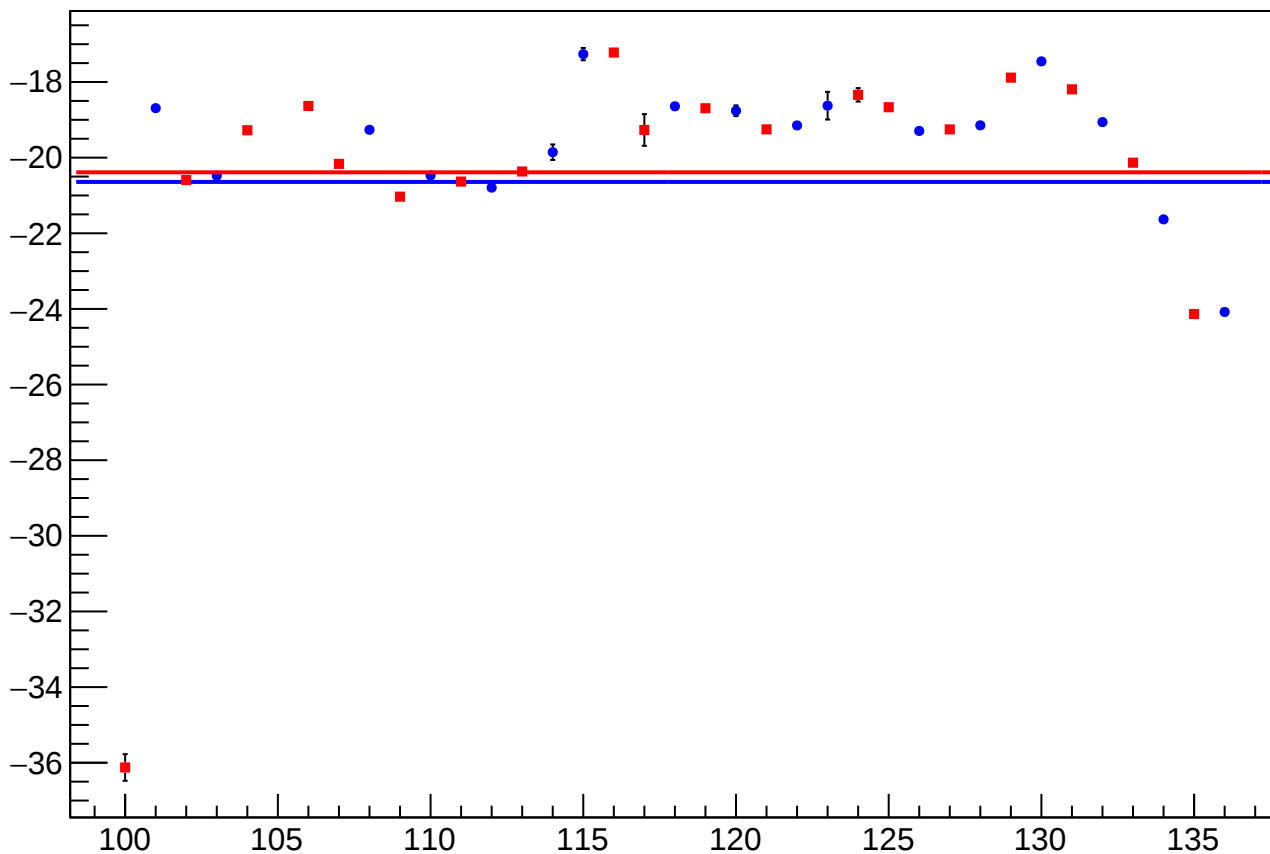
Right Out: 3.736+/-0.381  $\chi^2/\text{NDF}$ : 422.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.436+/-0.360  $\chi^2/\text{NDF}$ : 387.2/16

3.736+/-0.381  $\chi^2/\text{NDF}$ : 422.3/18

# reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -20.642 $\pm$ 0.019  $\chi^2$ /NDF: 12431.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

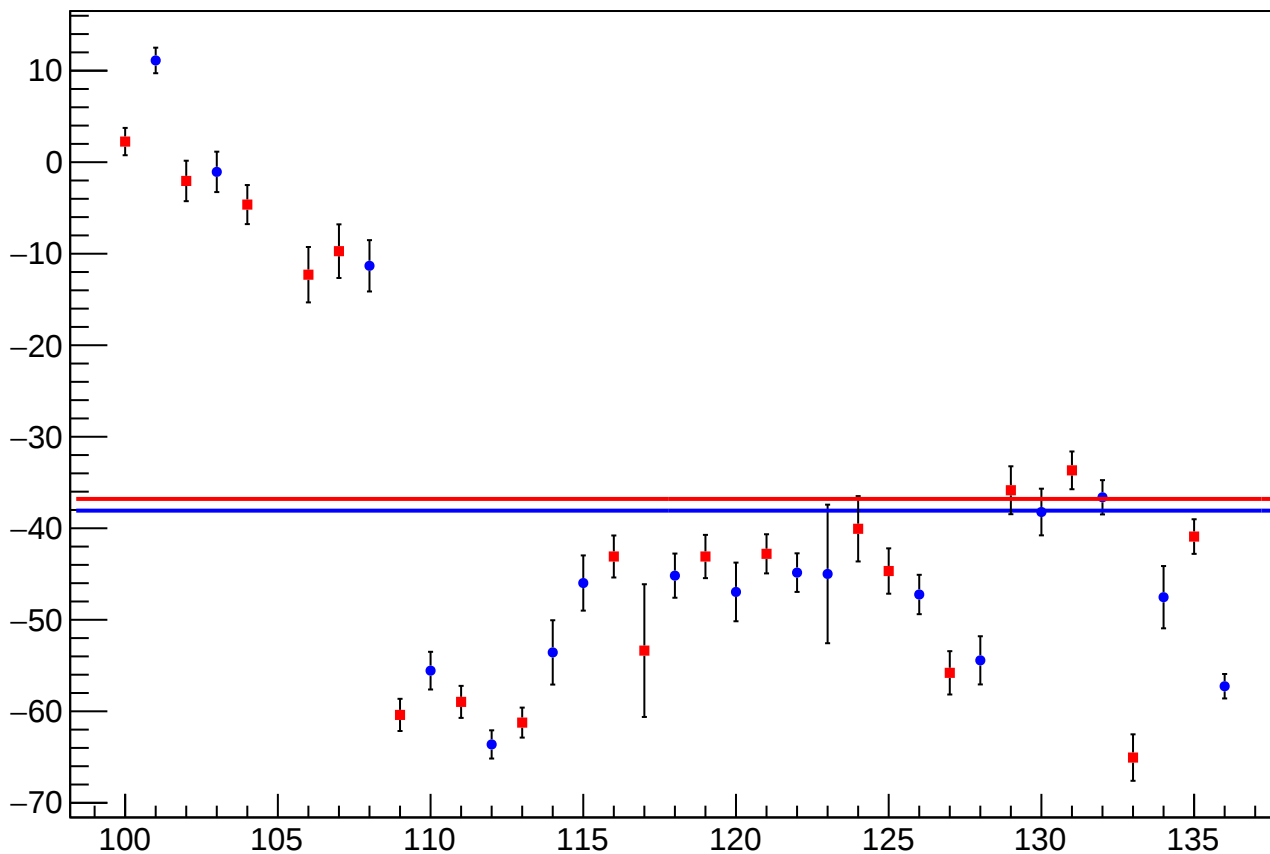
Right Out: -20.388 $\pm$ 0.020  $\chi^2$ /NDF: 10760.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-20.642 $\pm$ 0.019  $\chi^2$ /NDF: 12431.5/16

-20.388 $\pm$ 0.020  $\chi^2$ /NDF: 10760.7/18

# reg\_asym\_right\_dd\_diff\_bpm4aX\_slope vs Slug



Right In:  $-38.073 \pm 0.523$   $\chi^2/\text{NDF}$ : 2285.7/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

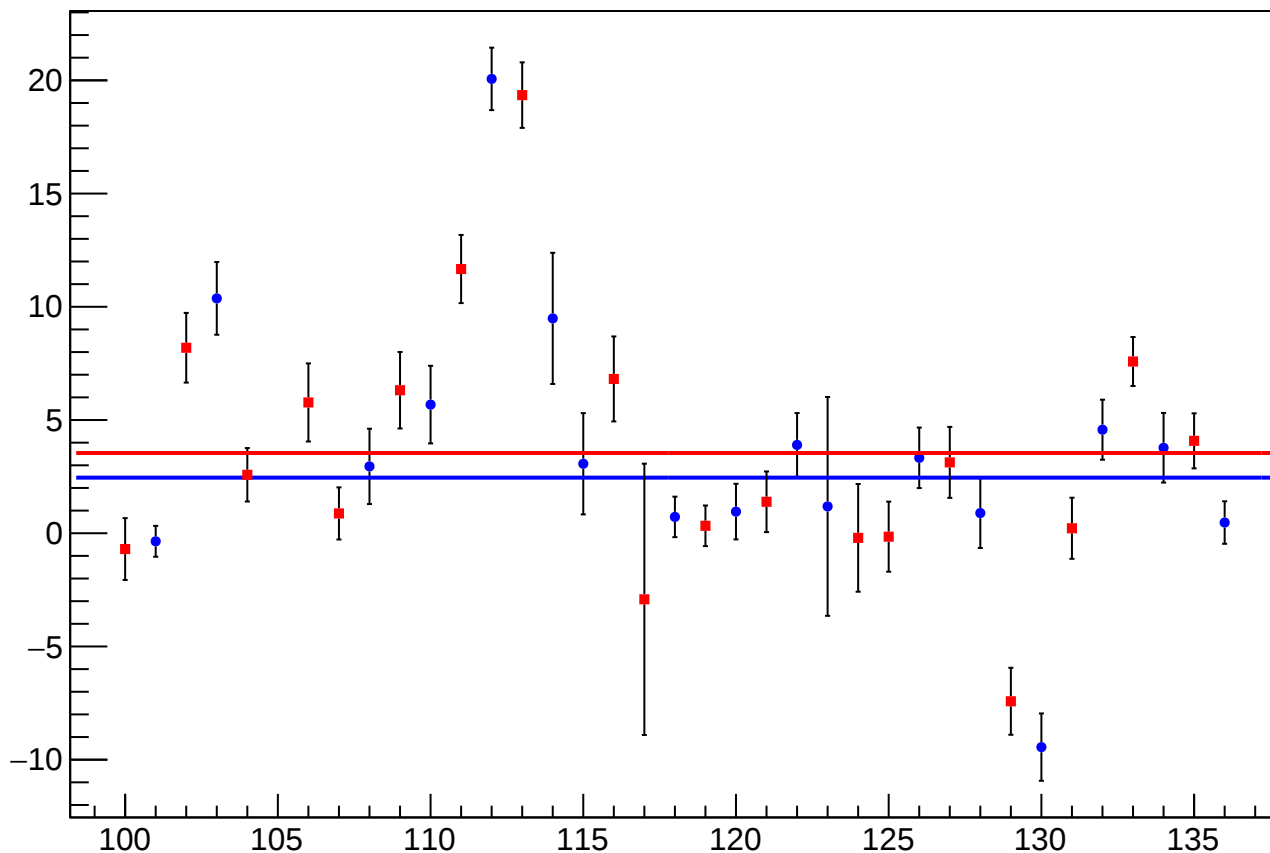
Right Out:  $-36.793 \pm 0.502$   $\chi^2/\text{NDF}$ : 2107.2/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-38.073 \pm 0.523$   $\chi^2/\text{NDF}$ : 2285.7/16

$-36.793 \pm 0.502$   $\chi^2/\text{NDF}$ : 2107.2/18

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 2.455+/-0.315  $\chi^2/\text{NDF}$ : 293.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

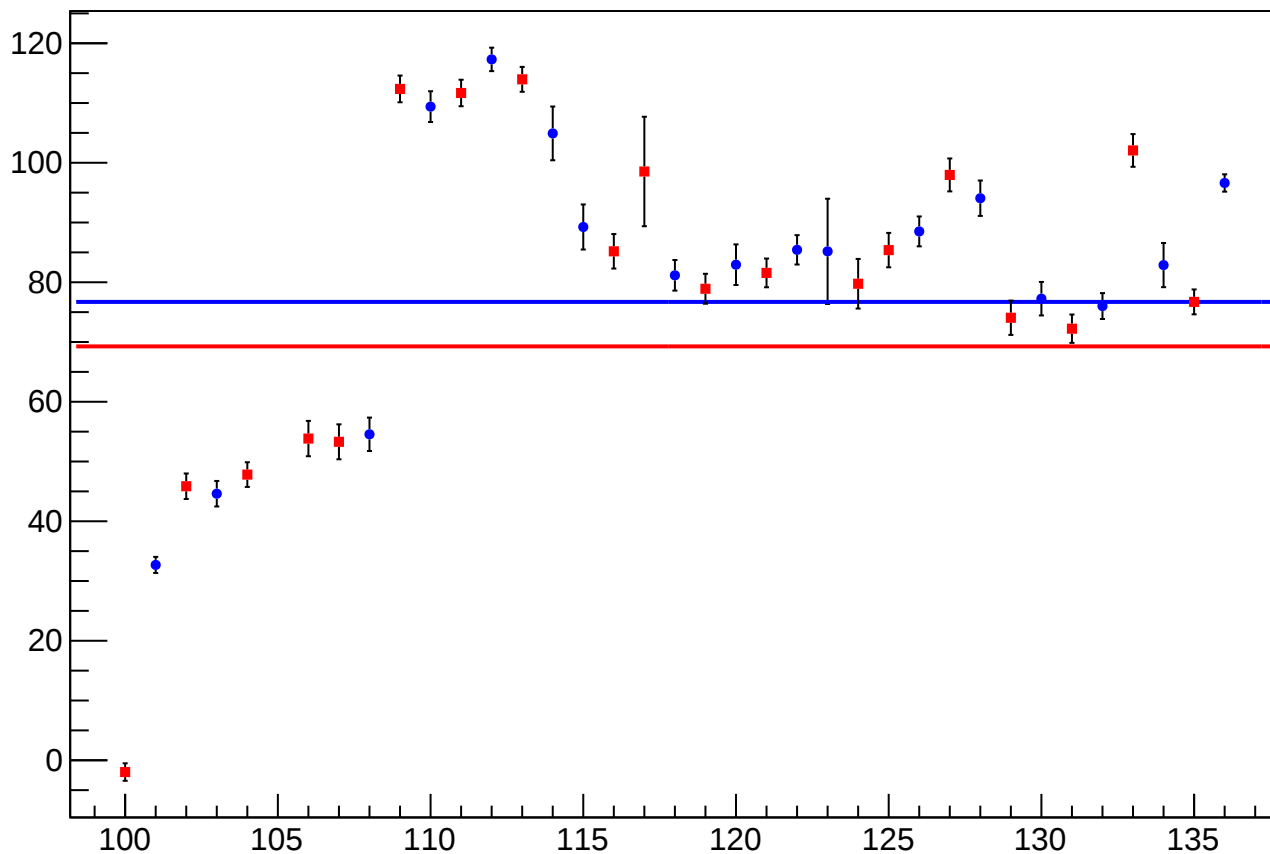
Right Out: 3.543+/-0.321  $\chi^2/\text{NDF}$ : 280.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.455+/-0.315  $\chi^2/\text{NDF}$ : 293.5/16

3.543+/-0.321  $\chi^2/\text{NDF}$ : 280.7/18

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 76.713+/-0.576  $\chi^2/\text{NDF}$ : 2266.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

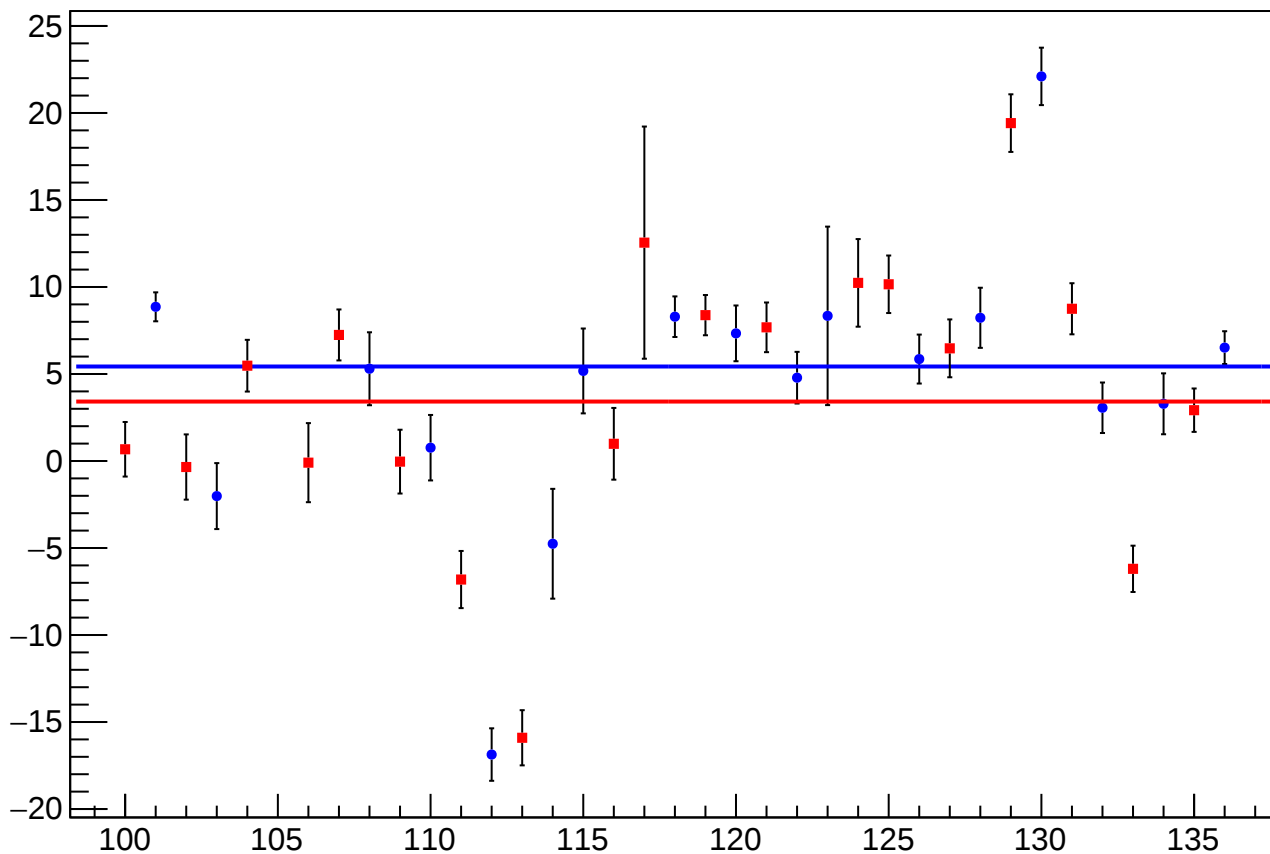
Right Out: 69.268+/-0.557  $\chi^2/\text{NDF}$ : 4237.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

76.713+/-0.576  $\chi^2/\text{NDF}$ : 2266.6/16

69.268+/-0.557  $\chi^2/\text{NDF}$ : 4237.7/18

# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 5.430 $\pm$ 0.361  $\chi^2$ /NDF: 385.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

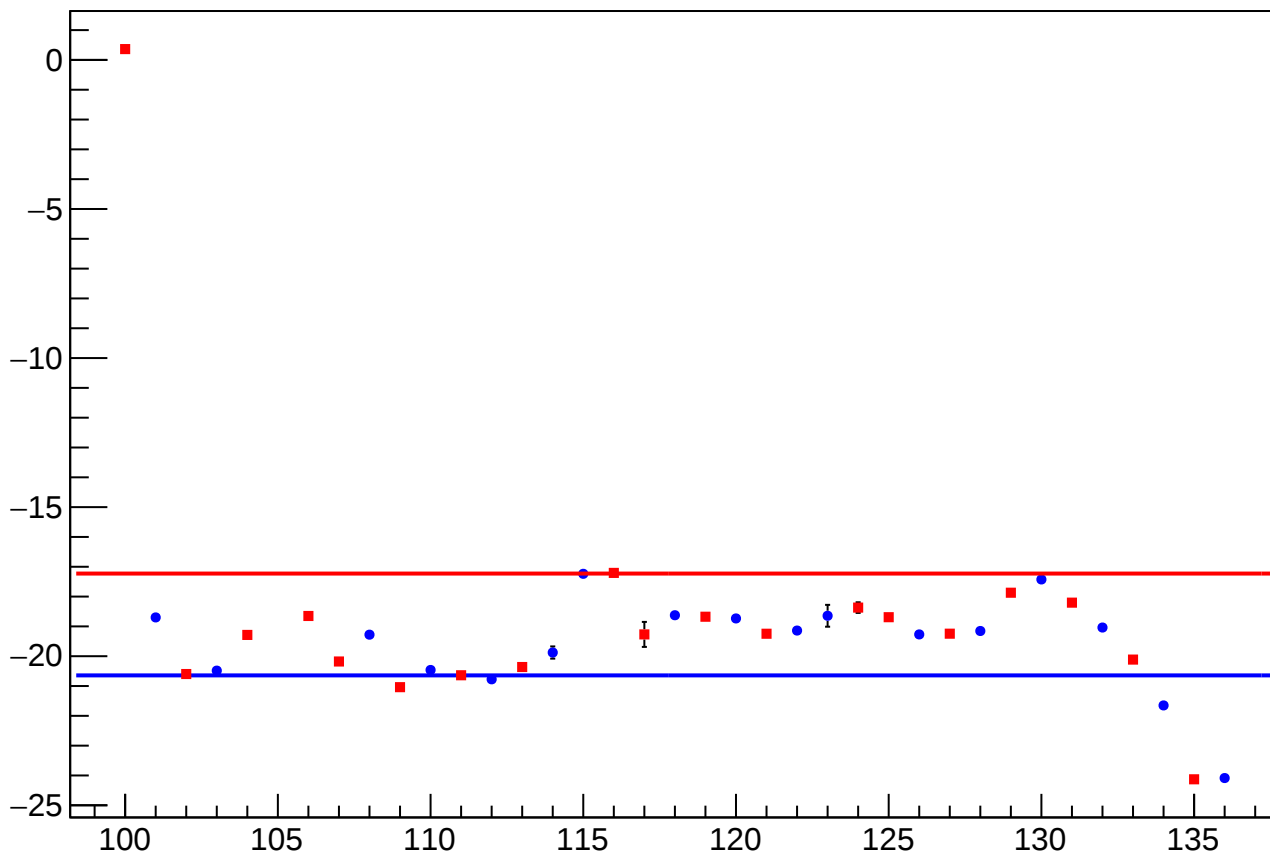
Right Out: 3.416 $\pm$ 0.370  $\chi^2$ /NDF: 426.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

5.430 $\pm$ 0.361  $\chi^2$ /NDF: 385.9/16

3.416 $\pm$ 0.370  $\chi^2$ /NDF: 426.0/18

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -20.643 $\pm$ 0.019  $\chi^2$ /NDF: 12468.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

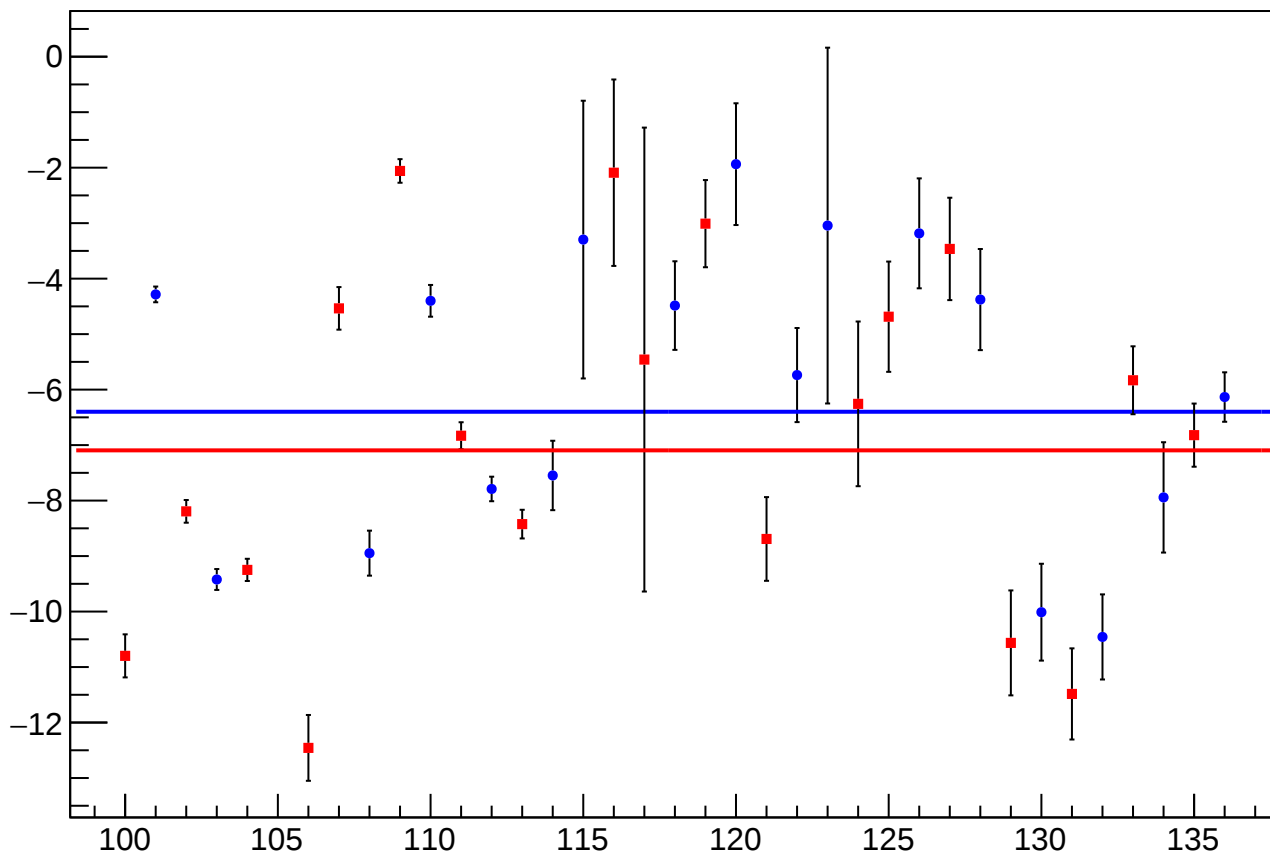
Right Out: -17.228 $\pm$ 0.018  $\chi^2$ /NDF: 170075.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-20.643 $\pm$ 0.019  $\chi^2$ /NDF: 12468.6/16

-17.228 $\pm$ 0.018  $\chi^2$ /NDF: 170075.1/18

reg\_asym\_sam\_15\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -6.399+/-0.086  $\chi^2/\text{NDF}$ : 700.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

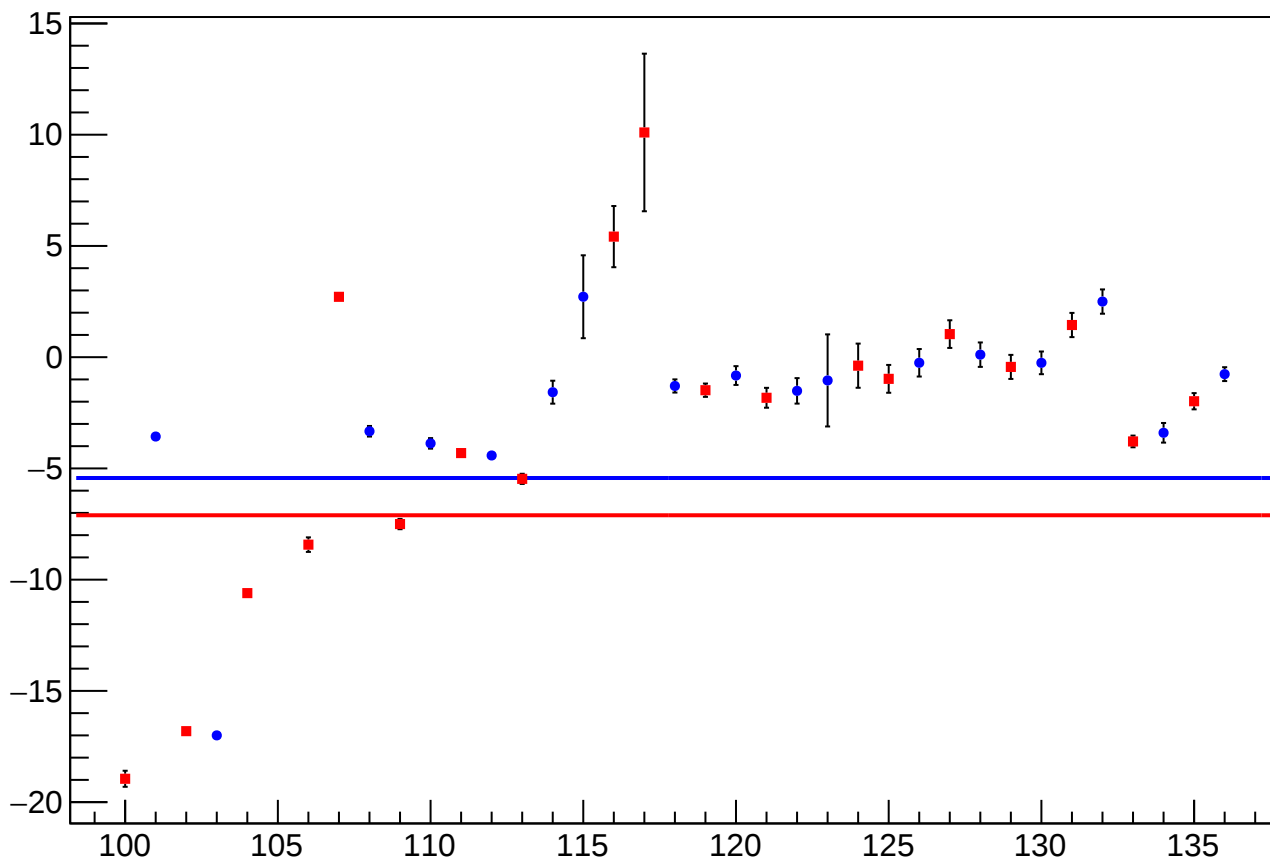
Right Out: -7.095+/-0.086  $\chi^2/\text{NDF}$ : 1059.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.399+/-0.086  $\chi^2/\text{NDF}$ : 700.9/16

-7.095+/-0.086  $\chi^2/\text{NDF}$ : 1059.6/18

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -5.431+/-0.055  $\chi^2$ /NDF: 9233.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

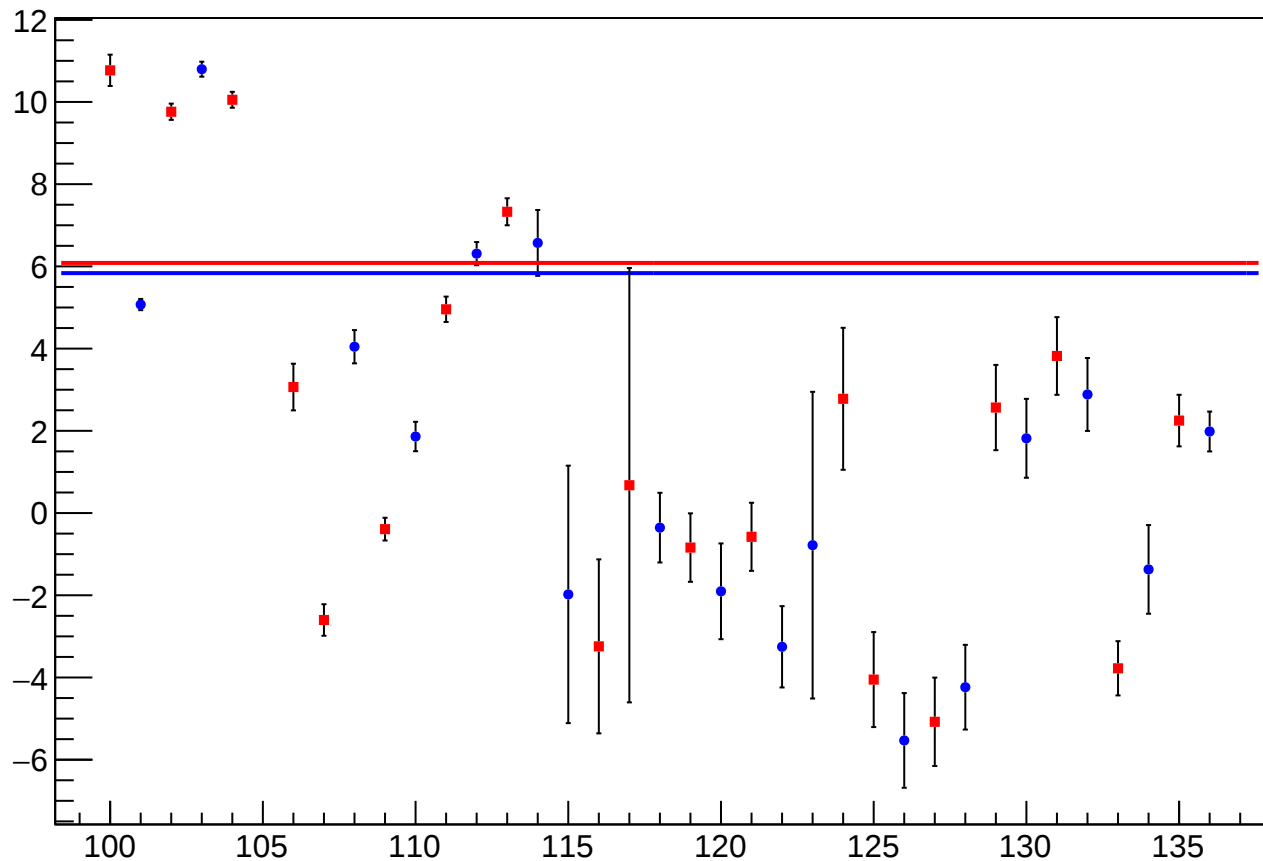
Right Out: -7.106+/-0.059  $\chi^2$ /NDF: 12254.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-5.431+/-0.055  $\chi^2$ /NDF: 9233.8/16

-7.106+/-0.059  $\chi^2$ /NDF: 12254.6/18

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 5.836+/-0.090  $\chi^2/\text{NDF}$ : 1440.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

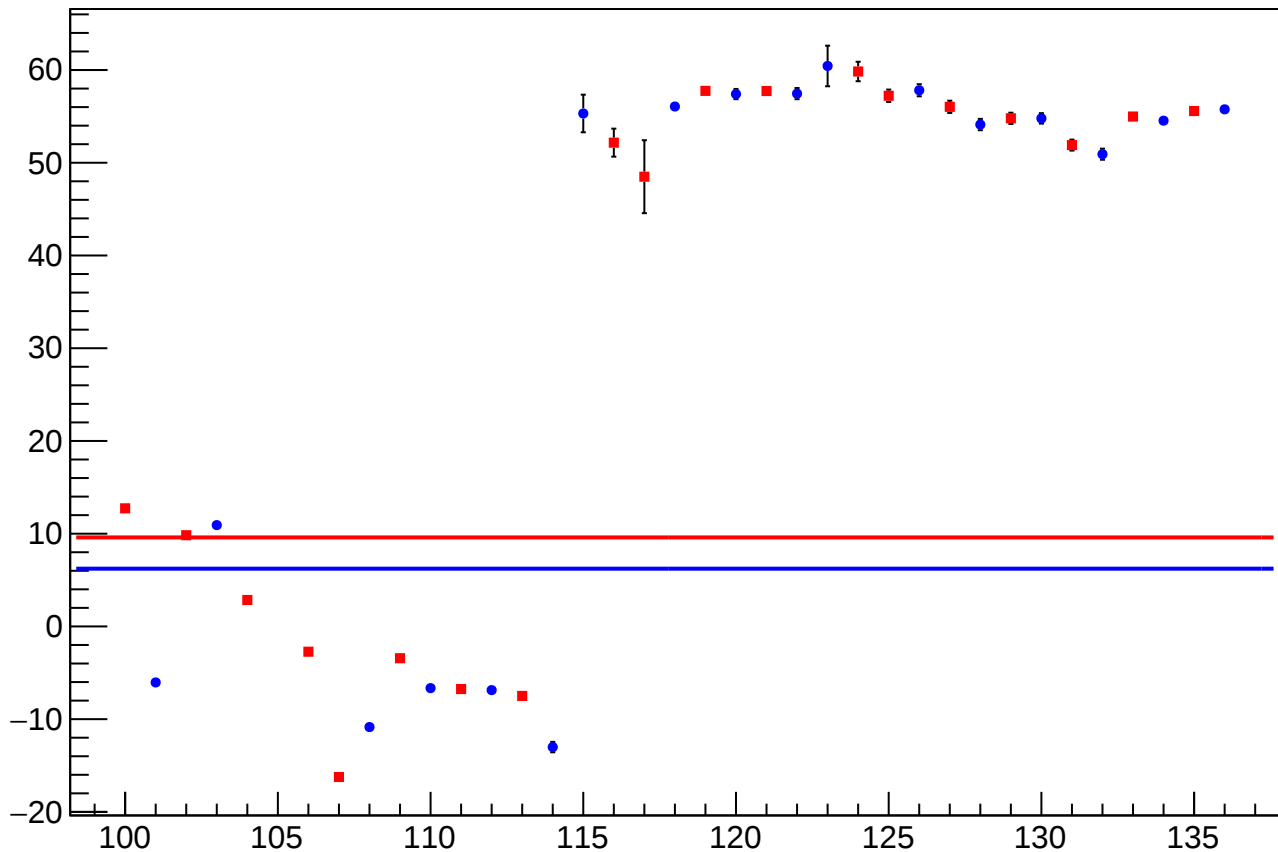
Right Out: 6.085+/-0.094  $\chi^2/\text{NDF}$ : 2657.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.836+/-0.090  $\chi^2/\text{NDF}$ : 1440.9/16

6.085+/-0.094  $\chi^2/\text{NDF}$ : 2657.2/18

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 6.226+/-0.065  $\chi^2/\text{NDF}$ : 120955.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

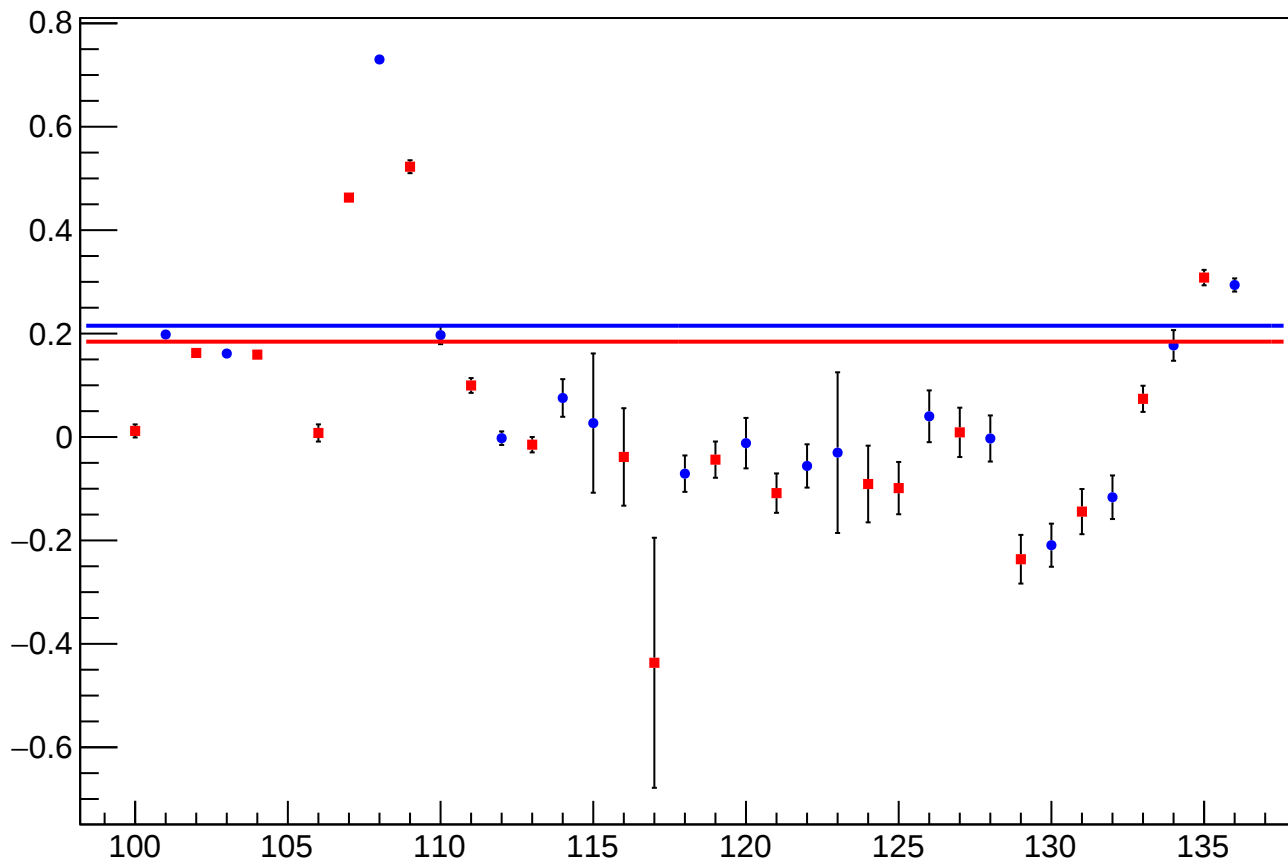
Right Out: 9.598+/-0.070  $\chi^2/\text{NDF}$ : 117420.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6.226+/-0.065  $\chi^2/\text{NDF}$ : 120955.1/16

9.598+/-0.070  $\chi^2/\text{NDF}$ : 117420.9/18

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.215+/-0.003  $\chi^2/\text{NDF}$ : 3925.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

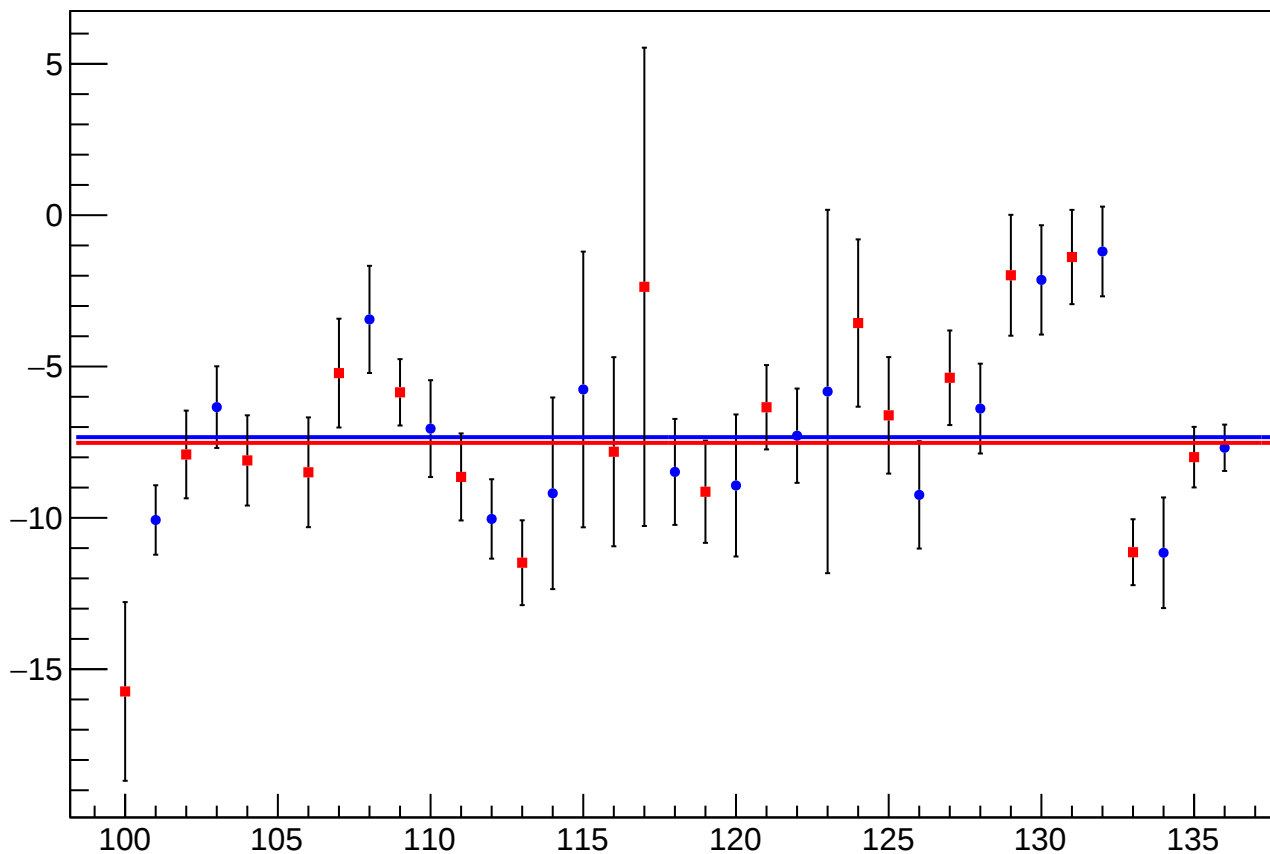
Right Out: 0.184+/-0.003  $\chi^2/\text{NDF}$ : 2692.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.215+/-0.003  $\chi^2/\text{NDF}$ : 3925.9/16

0.184+/-0.003  $\chi^2/\text{NDF}$ : 2692.1/18

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -7.334+/-0.372  $\chi^2/\text{NDF}$ : 48.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

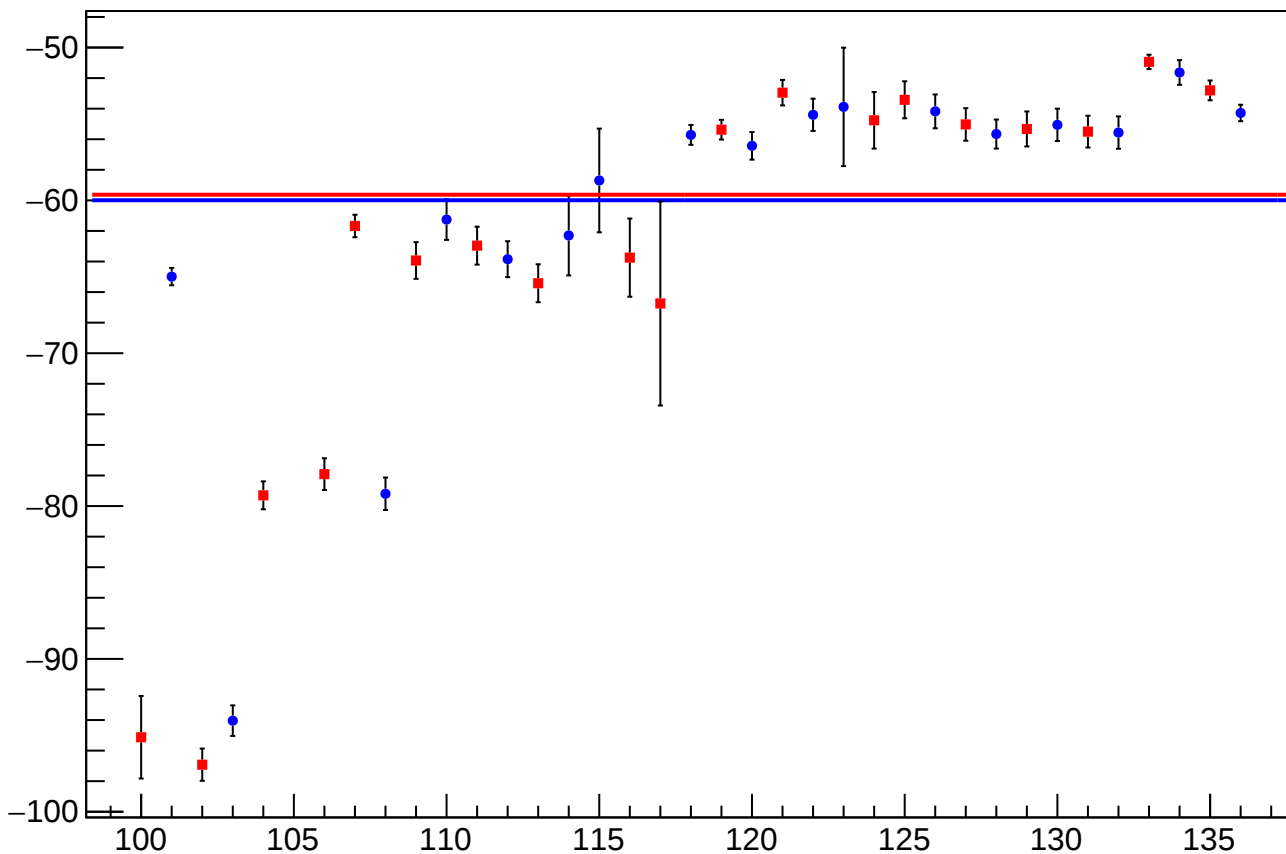
Right Out: -7.522+/-0.359  $\chi^2/\text{NDF}$ : 61.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-7.334+/-0.372  $\chi^2/\text{NDF}$ : 48.3/16

-7.522+/-0.359  $\chi^2/\text{NDF}$ : 61.5/18

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -59.992 $\pm$ 0.225  $\chi^2$ /NDF: 1972.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

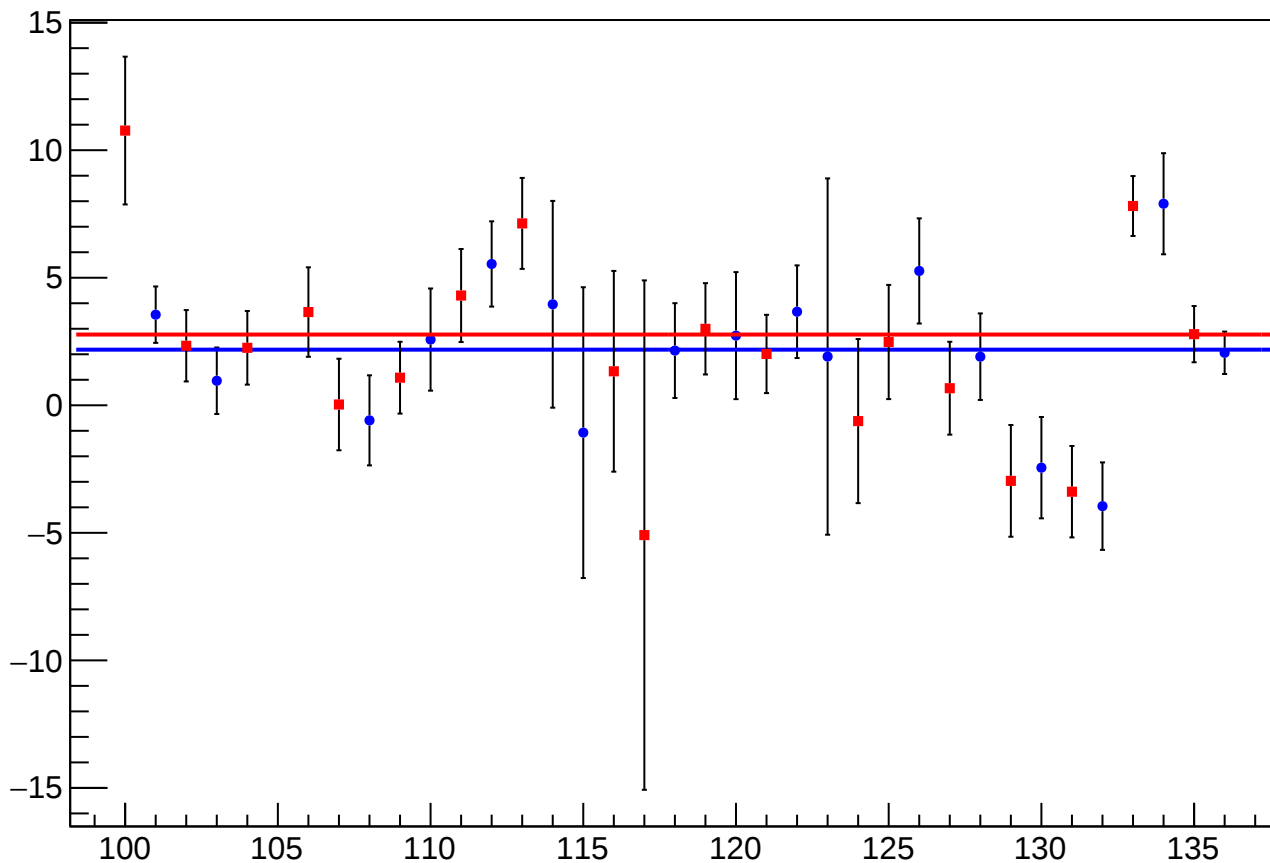
-59.992 $\pm$ 0.225  $\chi^2$ /NDF: 1972.9/16

Right Out: -59.630 $\pm$ 0.216  $\chi^2$ /NDF: 2897.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-59.630 $\pm$ 0.216  $\chi^2$ /NDF: 2897.4/18

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 2.181+/-0.406  $\chi^2/\text{NDF}$ : 39.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

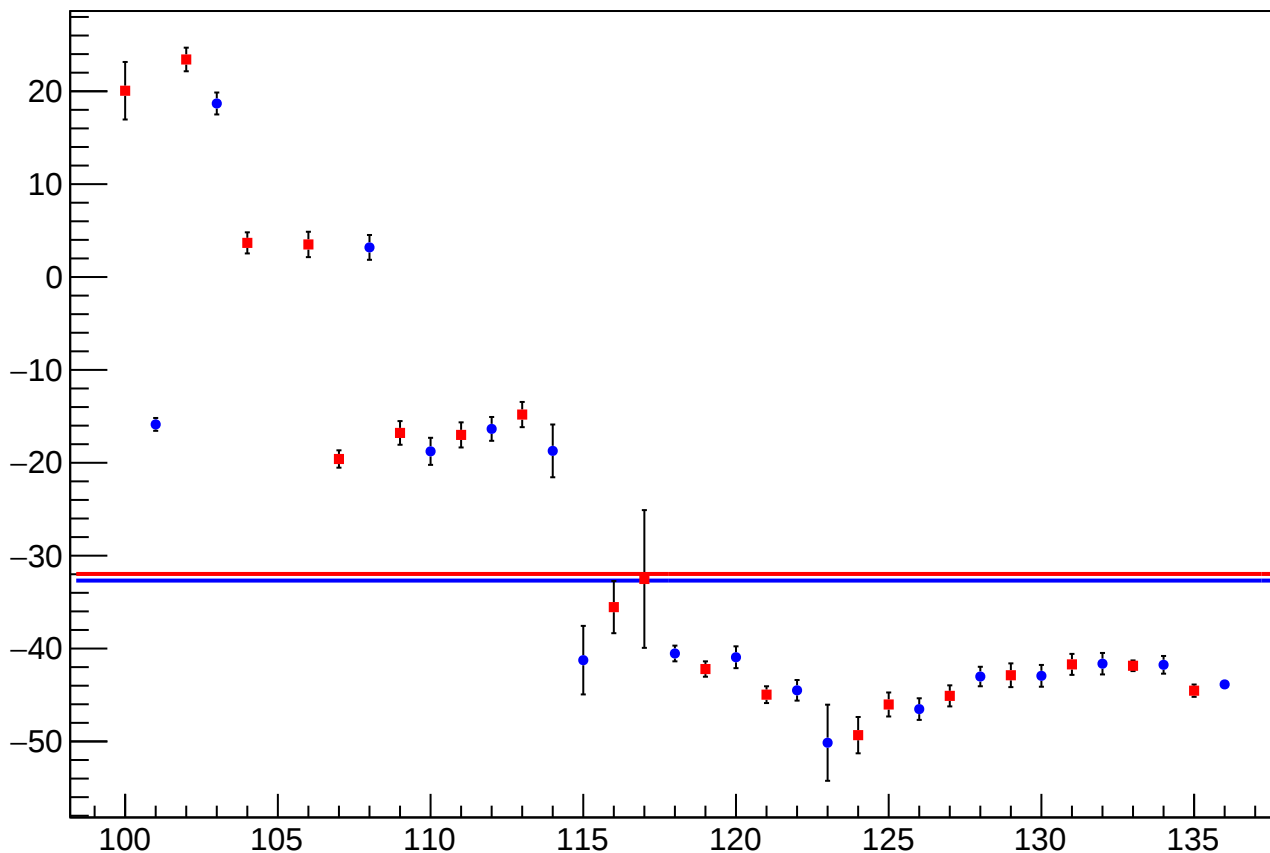
Right Out: 2.773+/-0.397  $\chi^2/\text{NDF}$ : 59.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.181+/-0.406  $\chi^2/\text{NDF}$ : 39.0/16

2.773+/-0.397  $\chi^2/\text{NDF}$ : 59.1/18

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -32.682 $\pm$ 0.256  $\chi^2$ /NDF: 4646.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

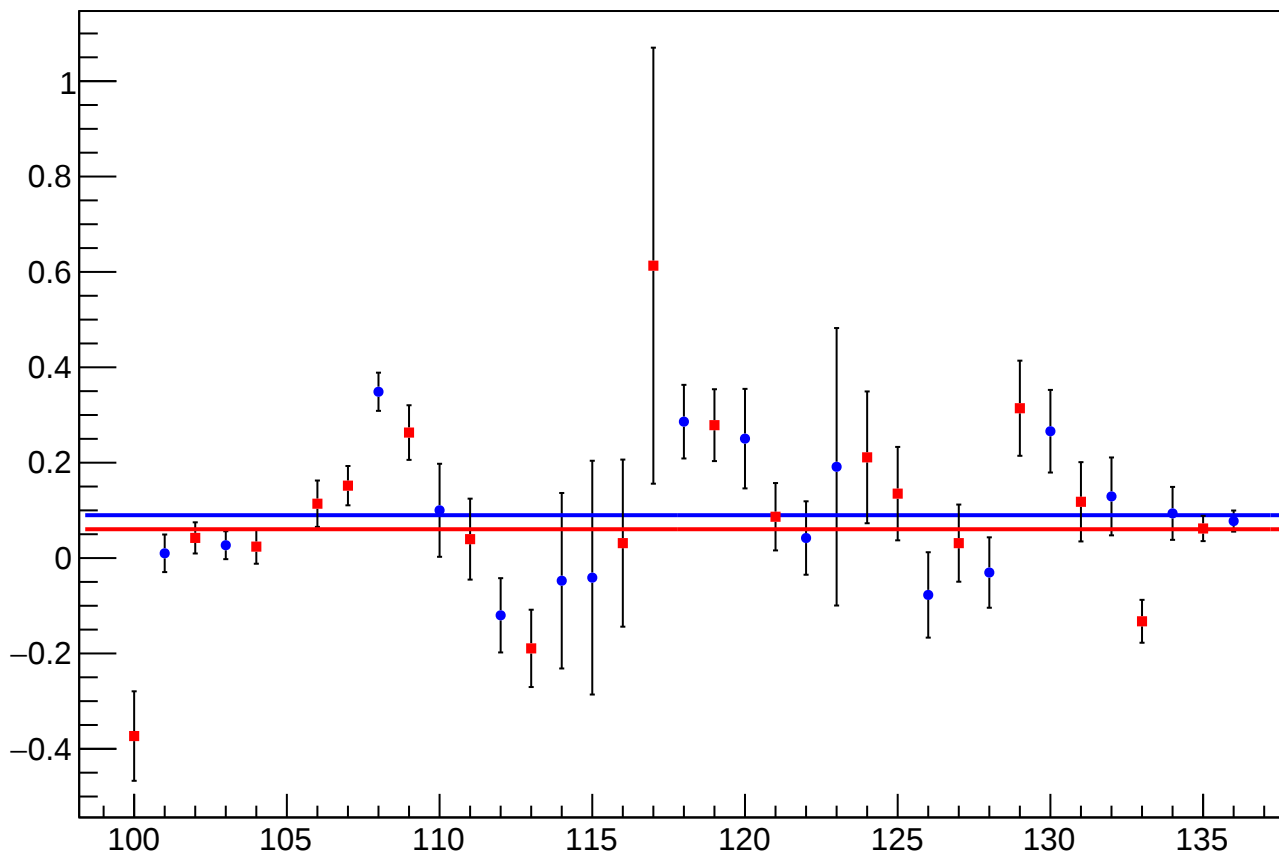
-32.682 $\pm$ 0.256  $\chi^2$ /NDF: 4646.9/16

Right Out: -31.969 $\pm$ 0.250  $\chi^2$ /NDF: 5936.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-31.969 $\pm$ 0.250  $\chi^2$ /NDF: 5936.1/18

reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.090 $\pm$ 0.013  $\chi^2$ /NDF: 78.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

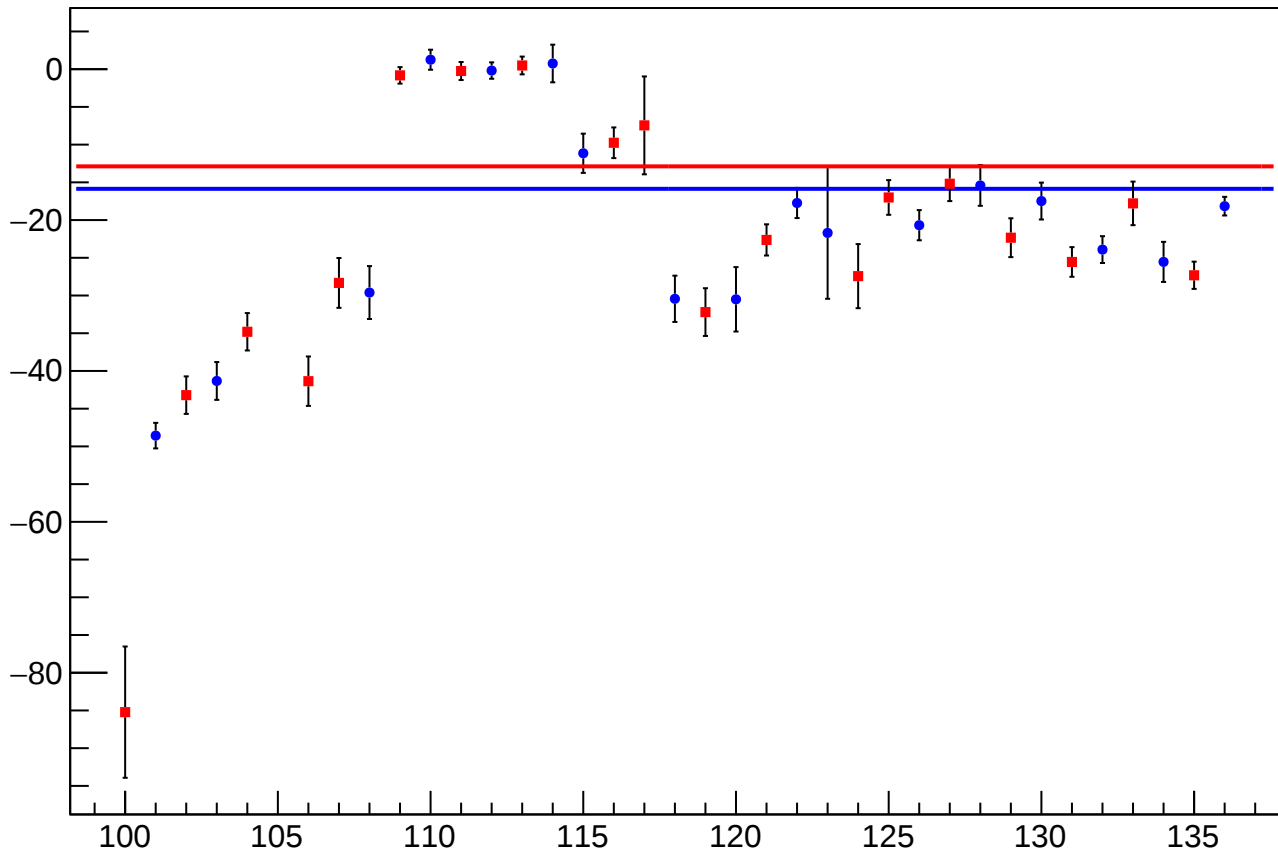
Right Out: 0.060 $\pm$ 0.013  $\chi^2$ /NDF: 88.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.090 $\pm$ 0.013  $\chi^2$ /NDF: 78.8/16

0.060 $\pm$ 0.013  $\chi^2$ /NDF: 88.2/18

reg\_asym\_sam\_37\_avg\_diff\_bpm4aX\_slope vs Slug



Right In:  $-15.858 \pm 0.477$   $\chi^2/\text{NDF}$ : 992.6/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

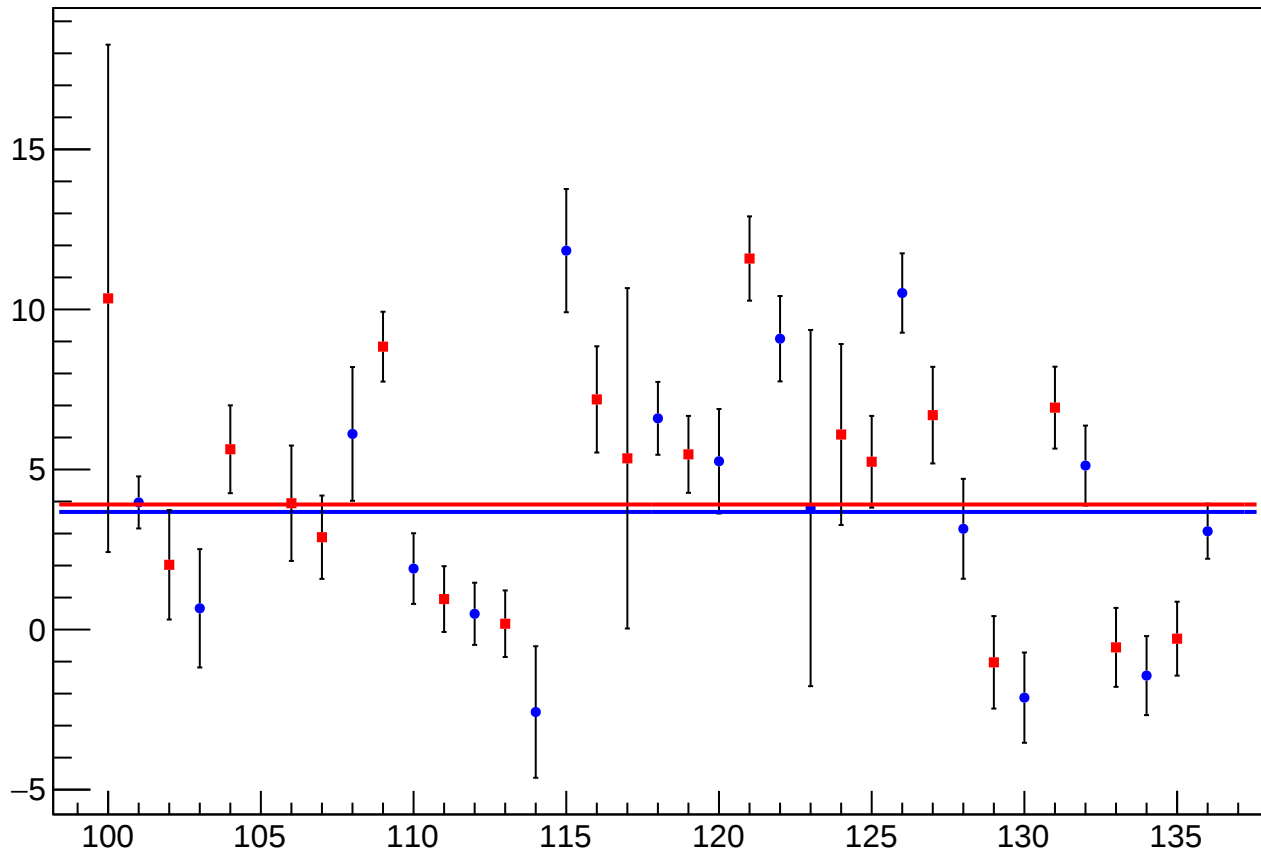
Right Out:  $-12.880 \pm 0.464$   $\chi^2/\text{NDF}$ : 956.6/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-15.858 \pm 0.477$   $\chi^2/\text{NDF}$ : 992.6/16

$-12.880 \pm 0.464$   $\chi^2/\text{NDF}$ : 956.6/18

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.675+/-0.310  $\chi^2/\text{NDF}$ : 135.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

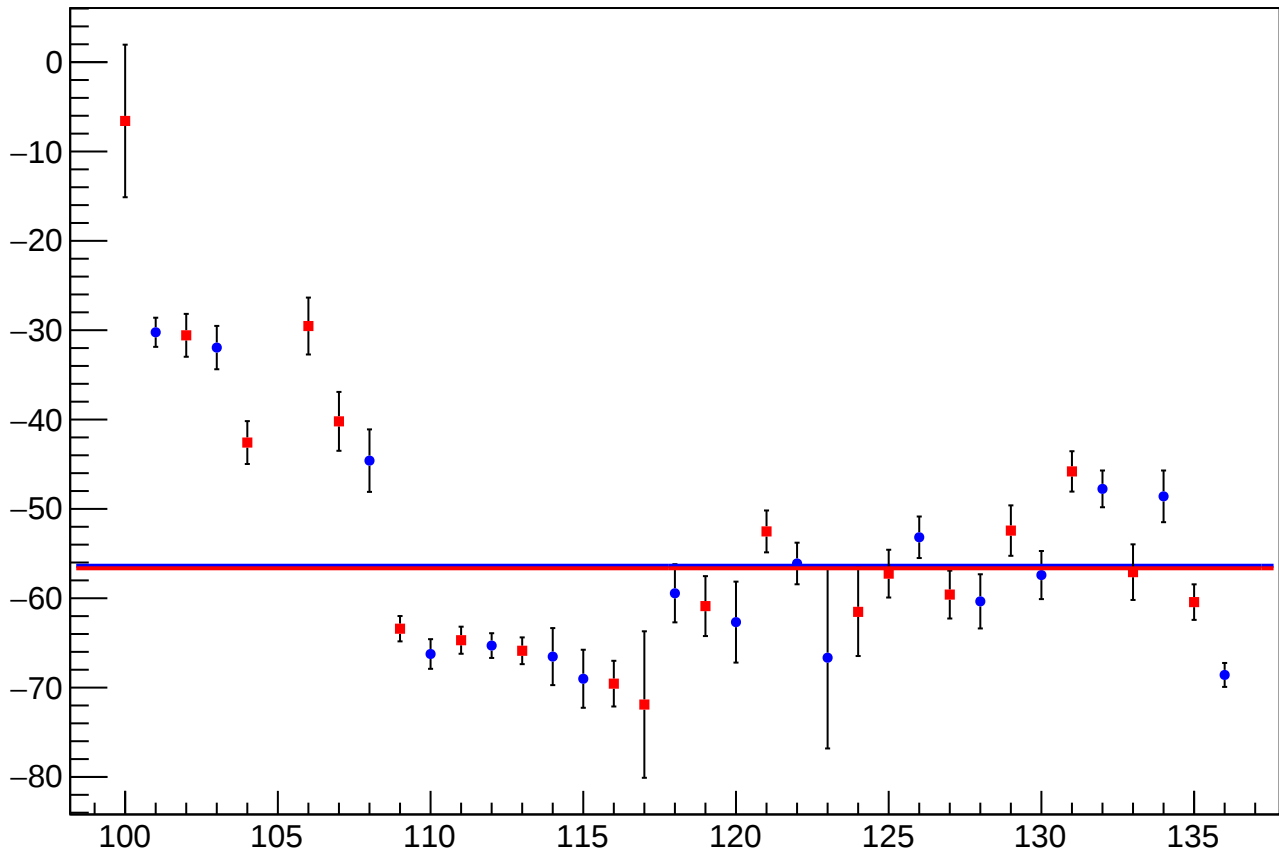
Right Out: 3.907+/-0.321  $\chi^2/\text{NDF}$ : 133.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.675+/-0.310  $\chi^2/\text{NDF}$ : 135.2/16

3.907+/-0.321  $\chi^2/\text{NDF}$ : 133.8/18

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -56.362 $\pm$ 0.543  $\chi^2$ /NDF: 587.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

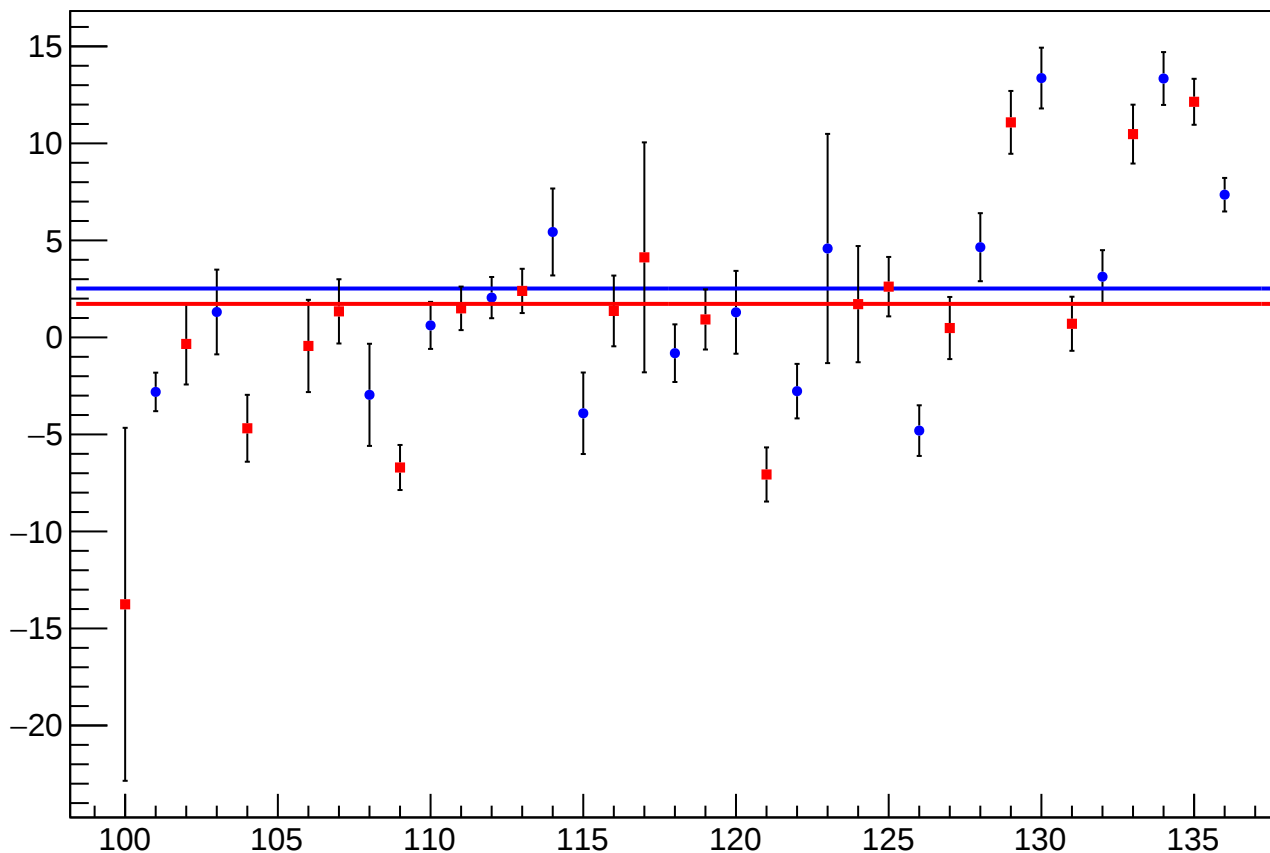
Right Out: -56.648 $\pm$ 0.545  $\chi^2$ /NDF: 438.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-56.362 $\pm$ 0.543  $\chi^2$ /NDF: 587.2/16

-56.648 $\pm$ 0.545  $\chi^2$ /NDF: 438.1/18

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 2.520+/-0.347  $\chi^2/\text{NDF}$ : 242.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

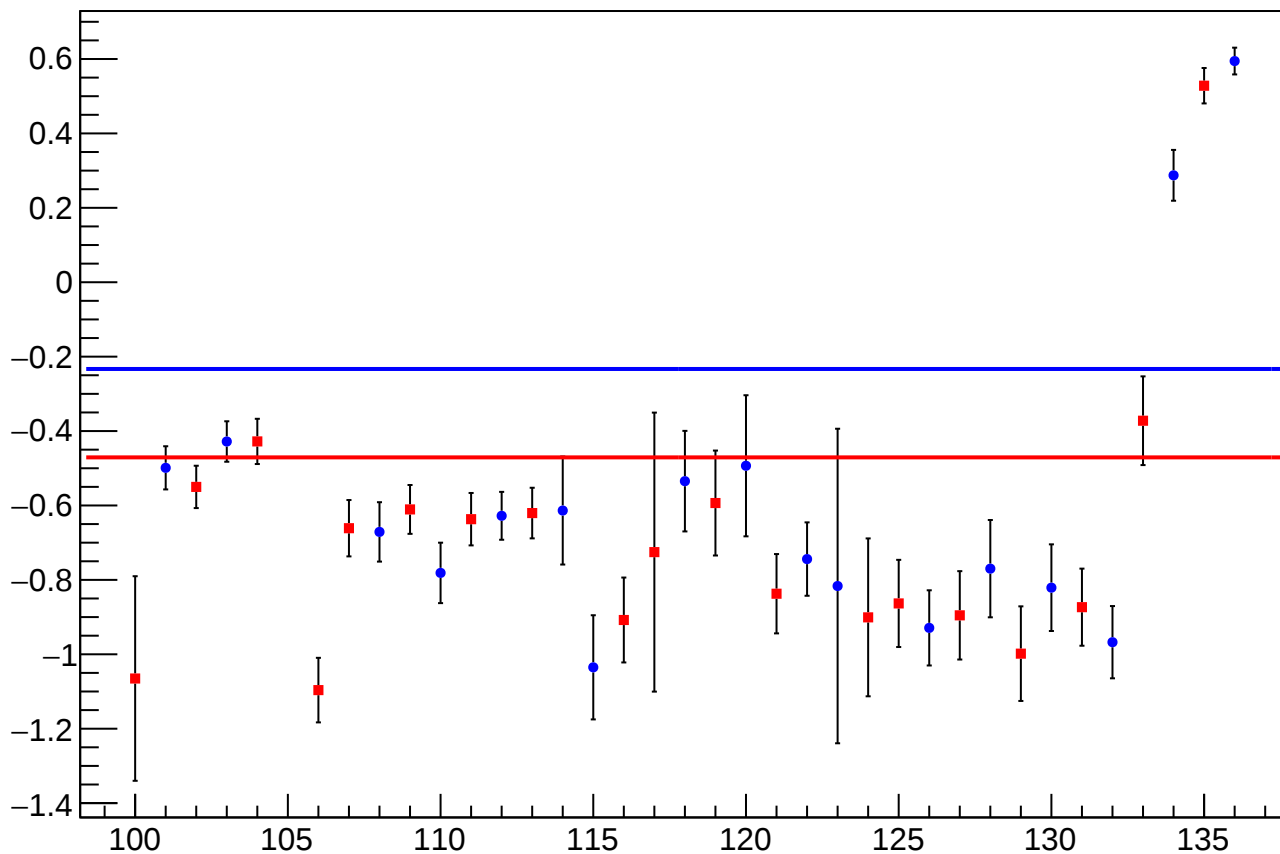
Right Out: 1.727+/-0.361  $\chi^2/\text{NDF}$ : 257.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.520+/-0.347  $\chi^2/\text{NDF}$ : 242.3/16

1.727+/-0.361  $\chi^2/\text{NDF}$ : 257.3/18

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.233+/-0.019  $\chi^2$ /NDF: 956.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

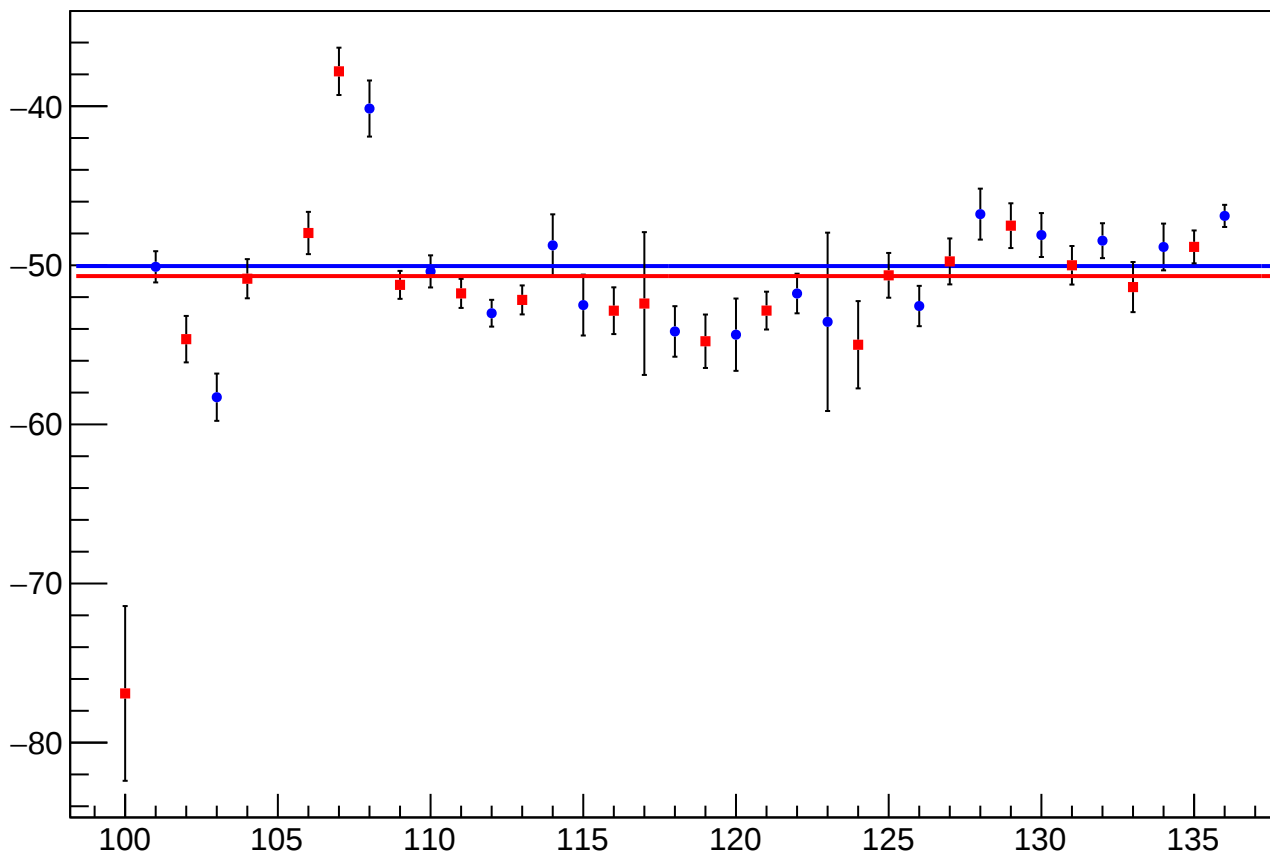
Right Out: -0.471+/-0.020  $\chi^2$ /NDF: 609.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.233+/-0.019  $\chi^2$ /NDF: 956.8/16

-0.471+/-0.020  $\chi^2$ /NDF: 609.3/18

# reg\_asym\_sam\_37\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -50.048+/-0.303  $\chi^2/\text{NDF}$ : 122.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

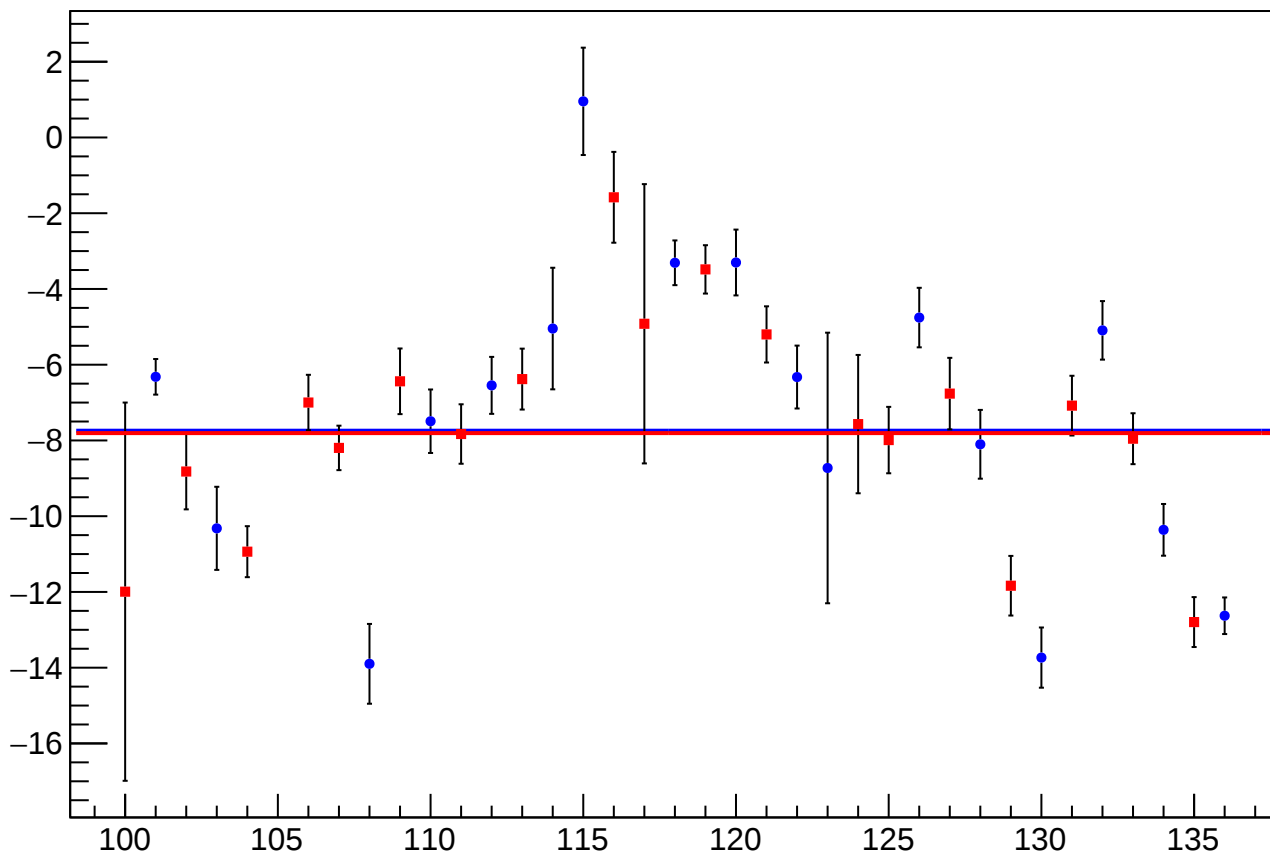
-50.048+/-0.303  $\chi^2/\text{NDF}$ : 122.9/16

Right Out: -50.678+/-0.300  $\chi^2/\text{NDF}$ : 136.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-50.678+/-0.300  $\chi^2/\text{NDF}$ : 136.9/18

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -7.743+/-0.187  $\chi^2/\text{NDF}$ : 377.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

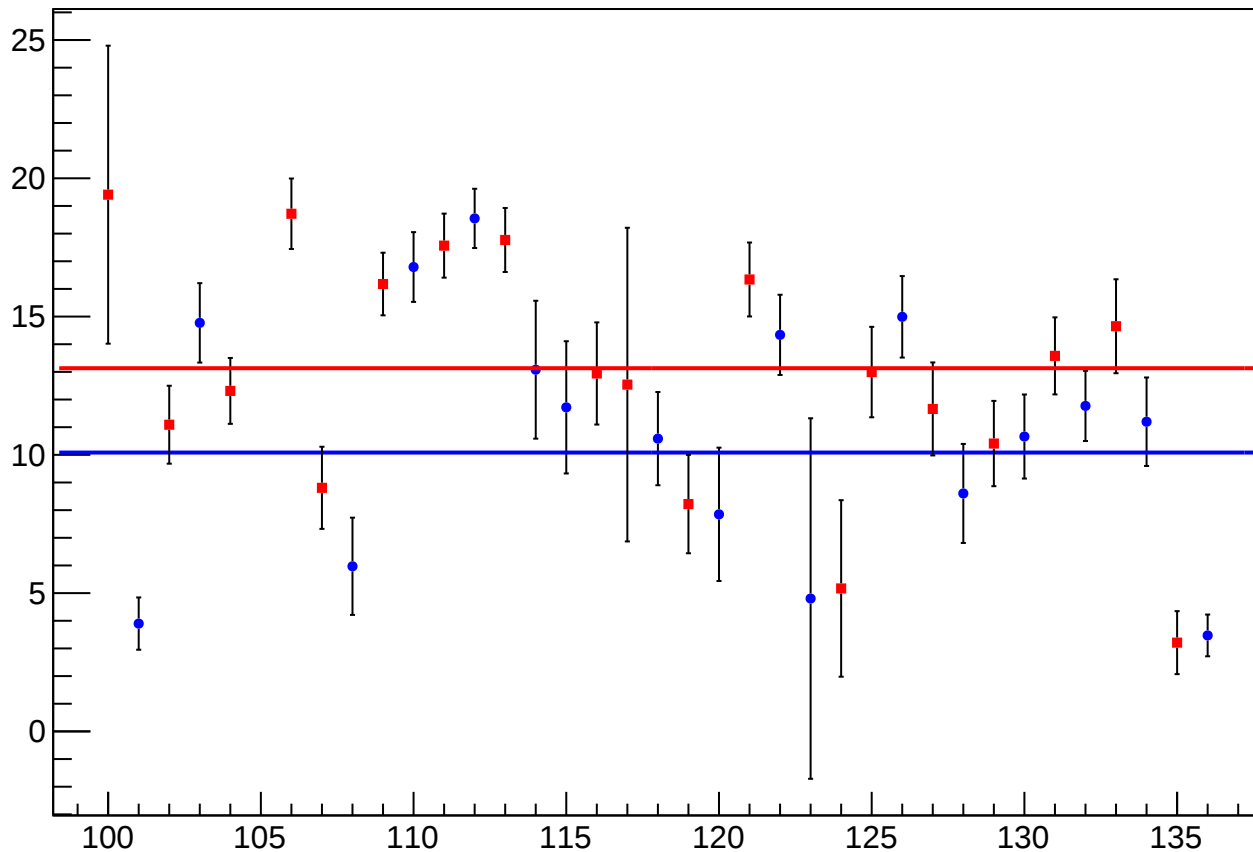
Right Out: -7.806+/-0.189  $\chi^2/\text{NDF}$ : 202.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-7.743+/-0.187  $\chi^2/\text{NDF}$ : 377.5/16

-7.806+/-0.189  $\chi^2/\text{NDF}$ : 202.1/18

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 10.083+/-0.338  $\chi^2/\text{NDF}$ : 252.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

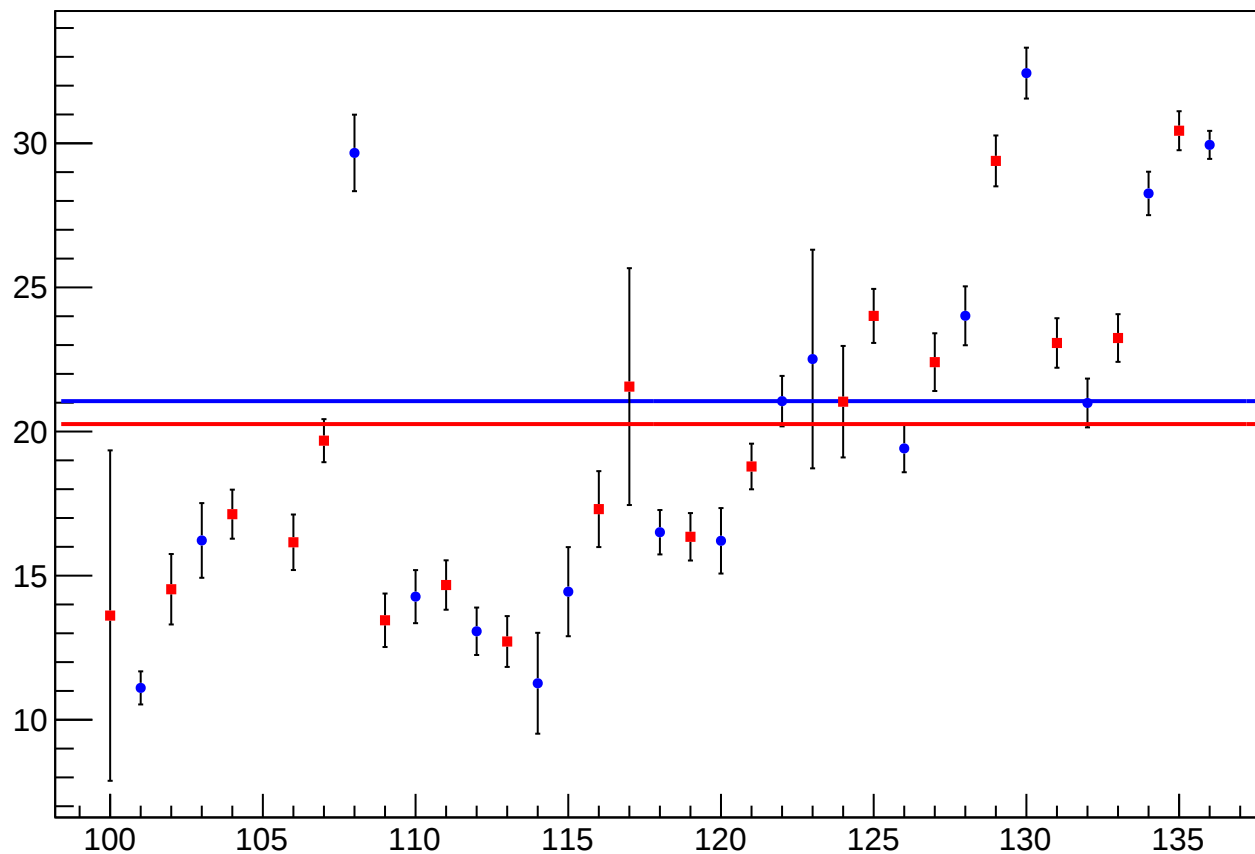
Right Out: 13.133+/-0.340  $\chi^2/\text{NDF}$ : 169.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.083+/-0.338  $\chi^2/\text{NDF}$ : 252.7/16

13.133+/-0.340  $\chi^2/\text{NDF}$ : 169.9/18

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 21.055+/-0.211  $\chi^2/\text{NDF}$ : 1211.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

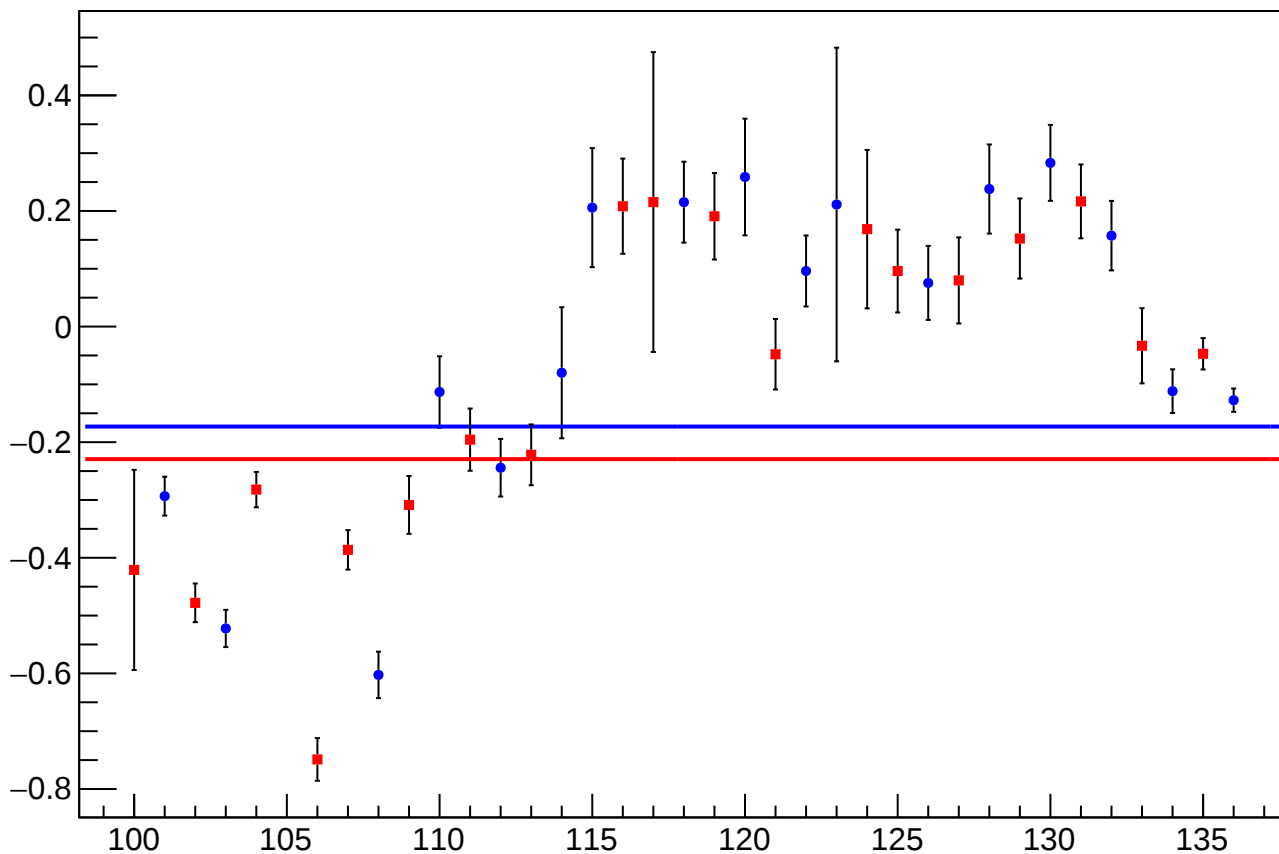
Right Out: 20.259+/-0.217  $\chi^2/\text{NDF}$ : 634.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

21.055+/-0.211  $\chi^2/\text{NDF}$ : 1211.8/16

20.259+/-0.217  $\chi^2/\text{NDF}$ : 634.1/18

# reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.173+/-0.011  $\chi^2$ /NDF: 461.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

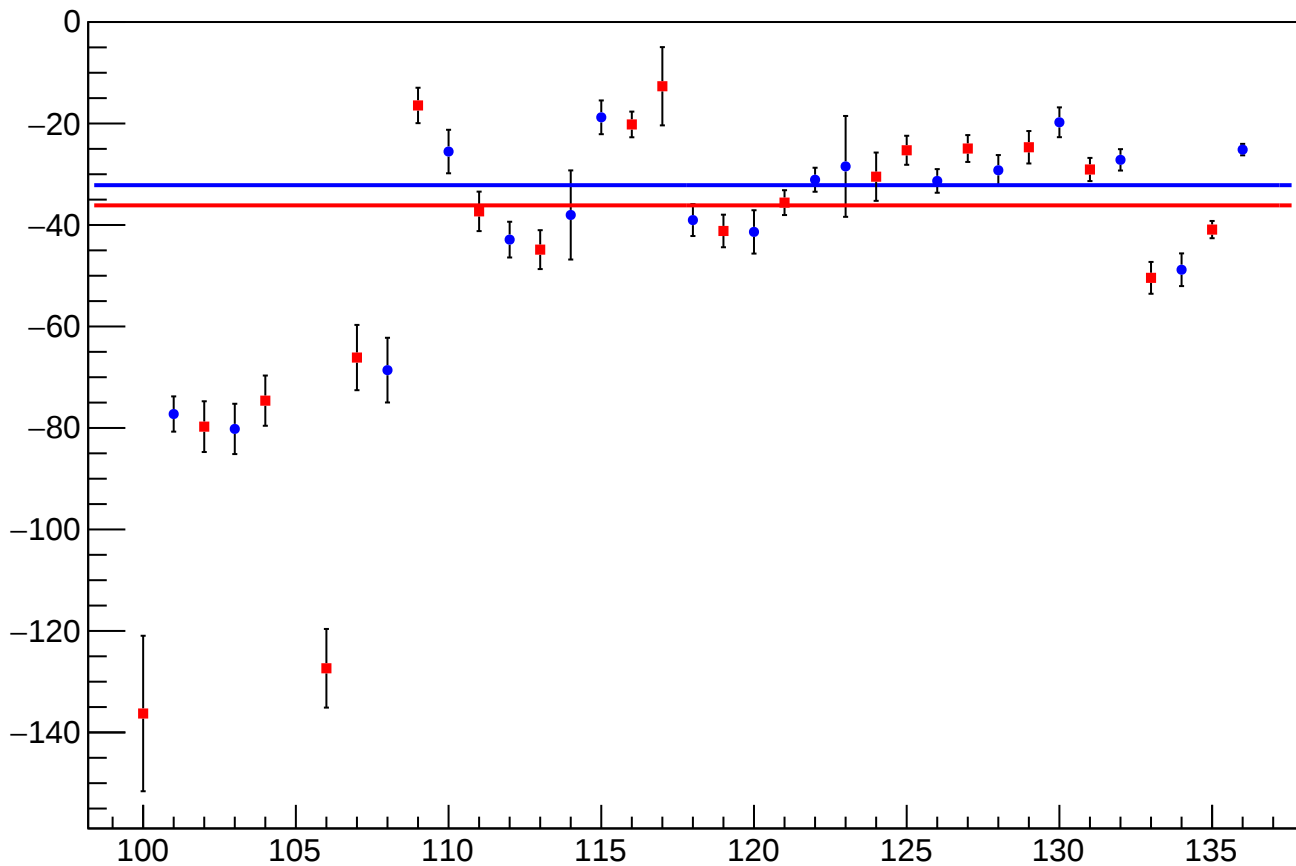
Right Out: -0.229+/-0.011  $\chi^2$ /NDF: 531.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.173+/-0.011  $\chi^2$ /NDF: 461.8/16

-0.229+/-0.011  $\chi^2$ /NDF: 531.9/18

reg\_asym\_sam\_26\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -32.154+/-0.667  $\chi^2/\text{NDF}$ : 423.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

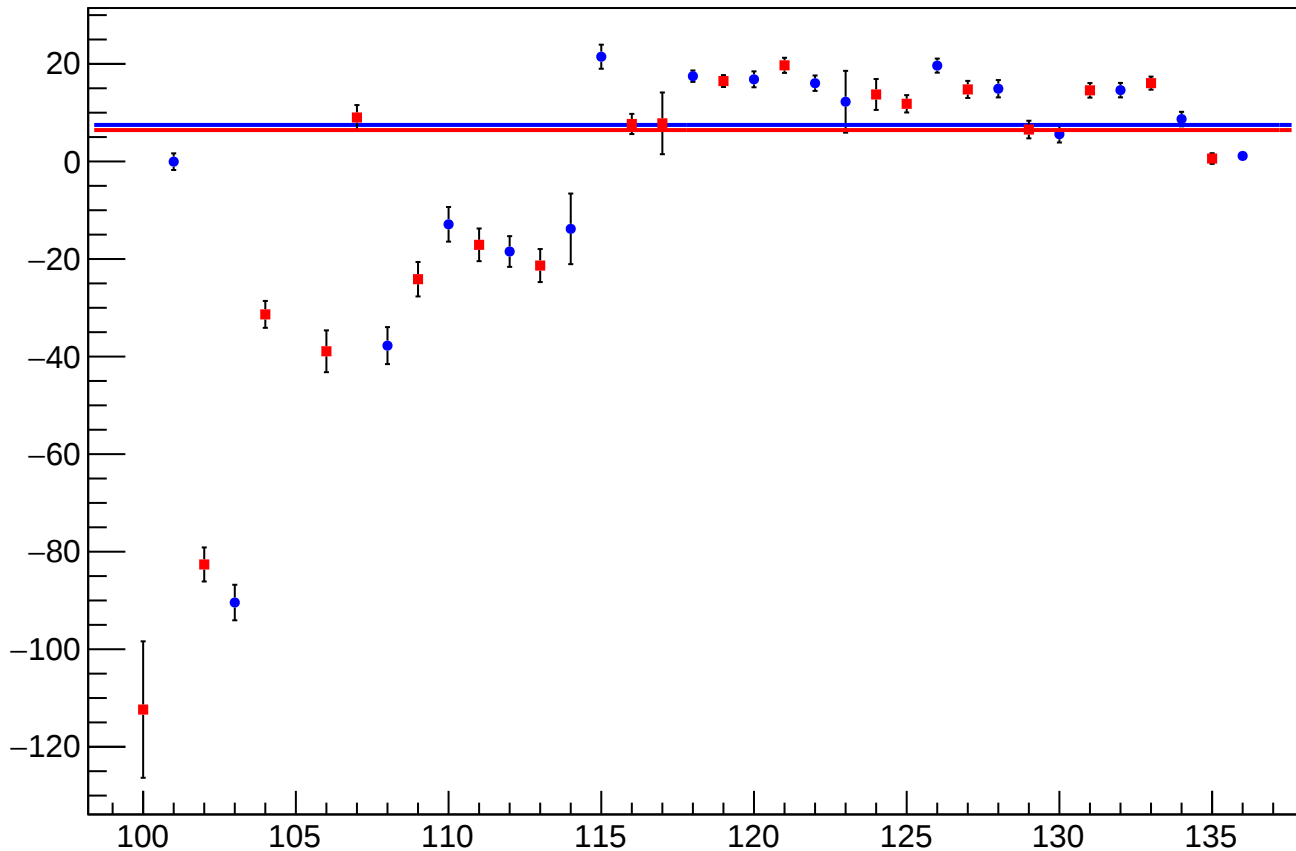
-32.154+/-0.667  $\chi^2/\text{NDF}$ : 423.0/16

Right Out: -36.134+/-0.740  $\chi^2/\text{NDF}$ : 512.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-36.134+/-0.740  $\chi^2/\text{NDF}$ : 512.9/18

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 7.488+/-0.407  $\chi^2/\text{NDF}$ : 1340.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

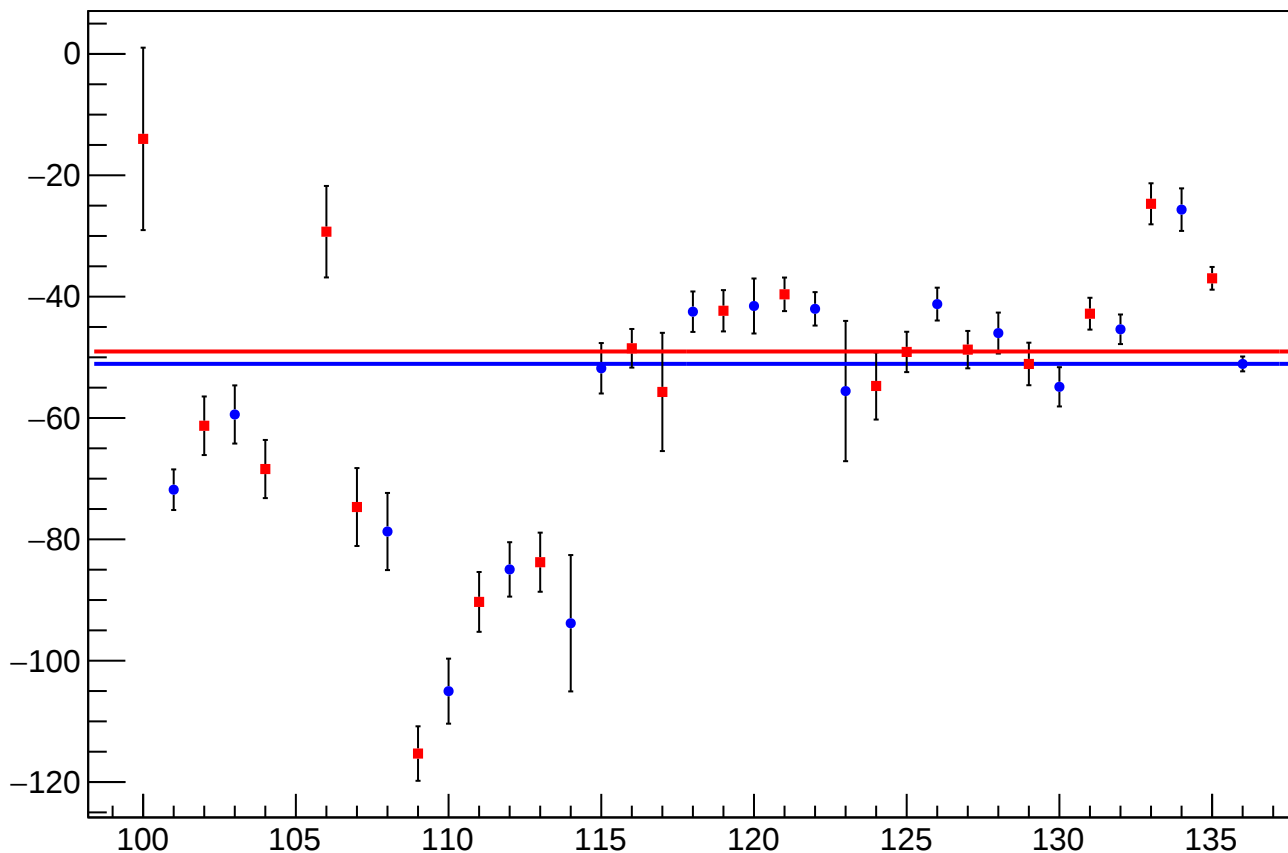
Right Out: 6.435+/-0.451  $\chi^2/\text{NDF}$ : 1504.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7.488+/-0.407  $\chi^2/\text{NDF}$ : 1340.5/16

6.435+/-0.451  $\chi^2/\text{NDF}$ : 1504.3/18

reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -51.077+/-0.741  $\chi^2/\text{NDF}$ : 330.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

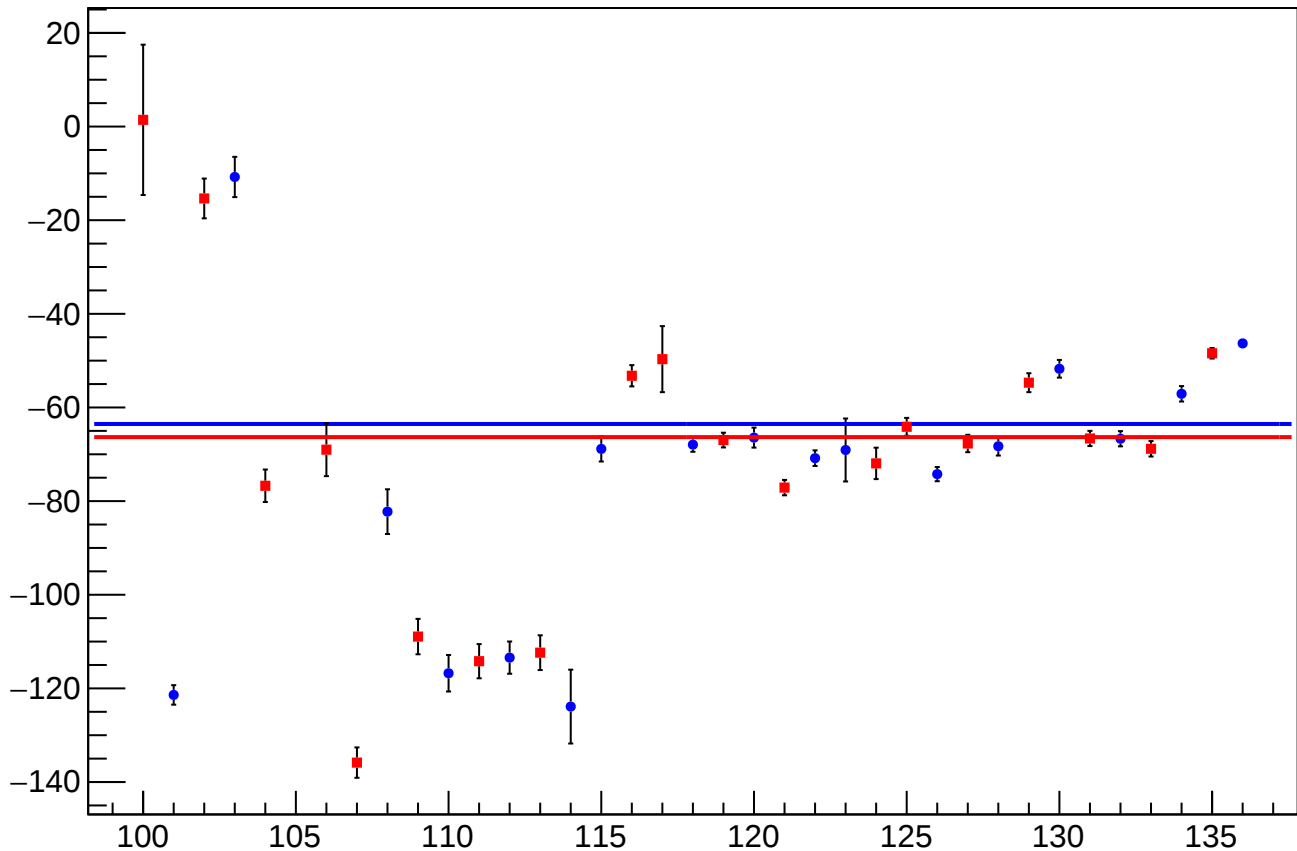
Right Out: -49.039+/-0.839  $\chi^2/\text{NDF}$ : 505.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-51.077+/-0.741  $\chi^2/\text{NDF}$ : 330.2/16

-49.039+/-0.839  $\chi^2/\text{NDF}$ : 505.9/18

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -63.525 $\pm$ 0.449  $\chi^2$ /NDF: 2010.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

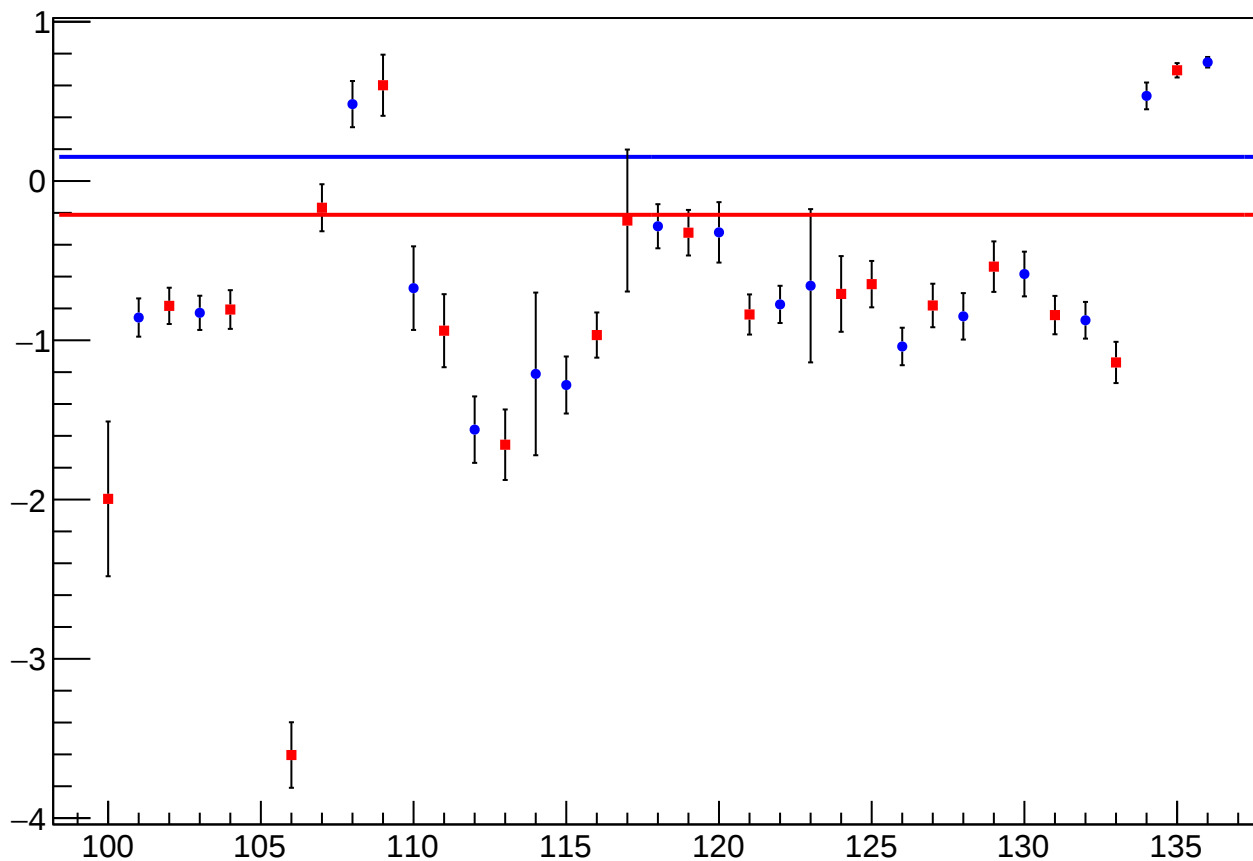
Right Out: -66.330 $\pm$ 0.505  $\chi^2$ /NDF: 1459.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-63.525 $\pm$ 0.449  $\chi^2$ /NDF: 2010.9/16

-66.330 $\pm$ 0.505  $\chi^2$ /NDF: 1459.4/18

reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.152+/-0.024  $\chi^2/\text{NDF}$ : 987.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

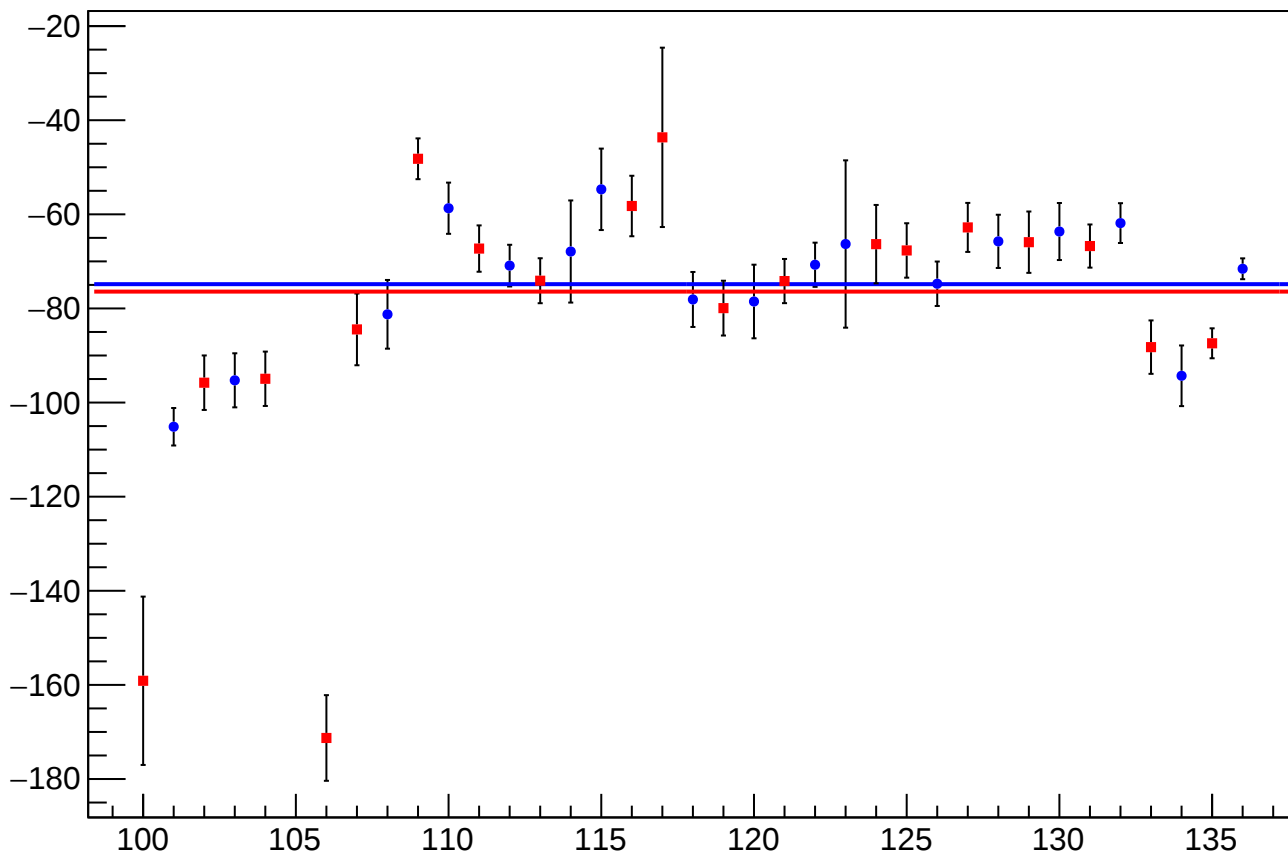
Right Out: -0.212+/-0.029  $\chi^2/\text{NDF}$ : 976.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.152+/-0.024  $\chi^2/\text{NDF}$ : 987.4/16

-0.212+/-0.029  $\chi^2/\text{NDF}$ : 976.2/18

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -74.841 $\pm$ 1.195  $\chi^2$ /NDF: 115.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

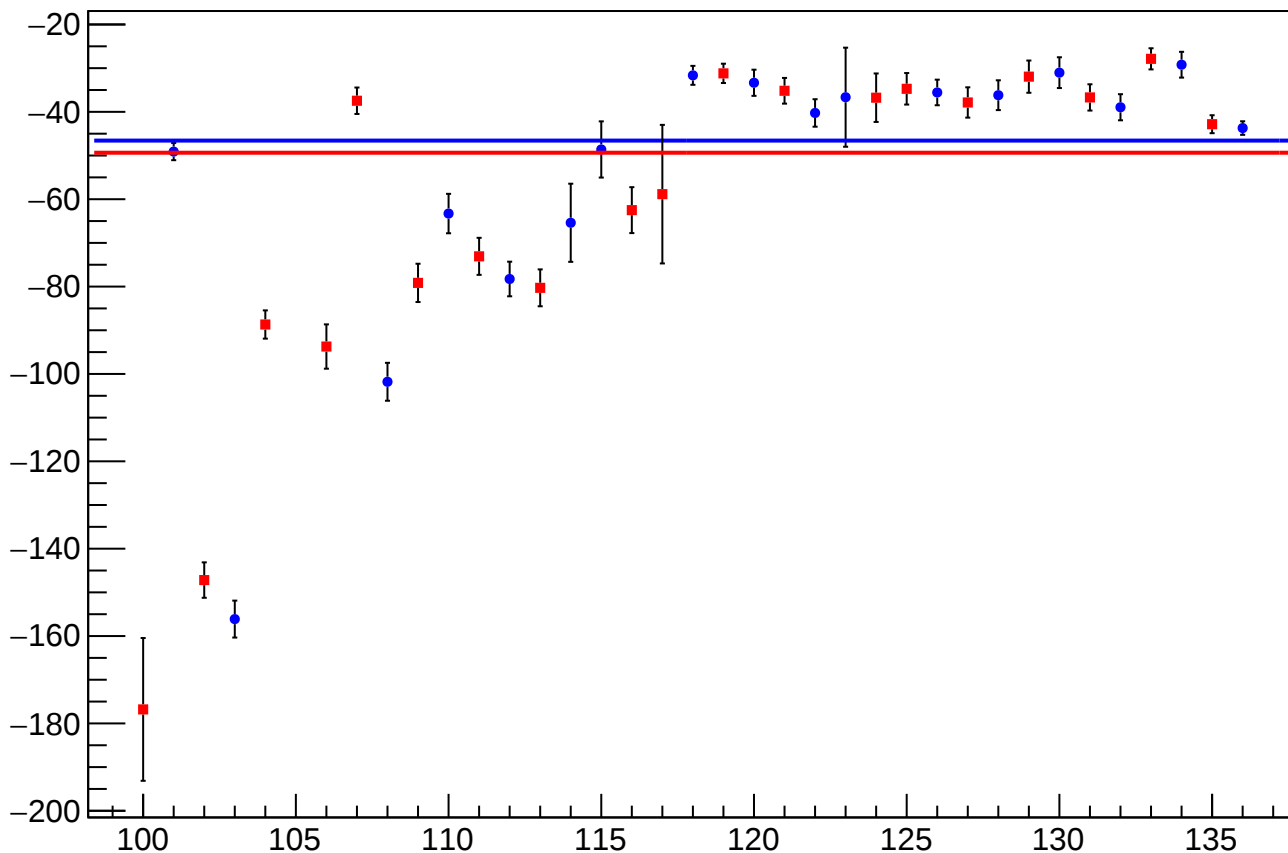
Right Out: -76.420 $\pm$ 1.276  $\chi^2$ /NDF: 244.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-74.841 $\pm$ 1.195  $\chi^2$ /NDF: 115.0/16

-76.420 $\pm$ 1.276  $\chi^2$ /NDF: 244.1/18

reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -46.579+/-0.730  $\chi^2/\text{NDF}$ : 1076.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

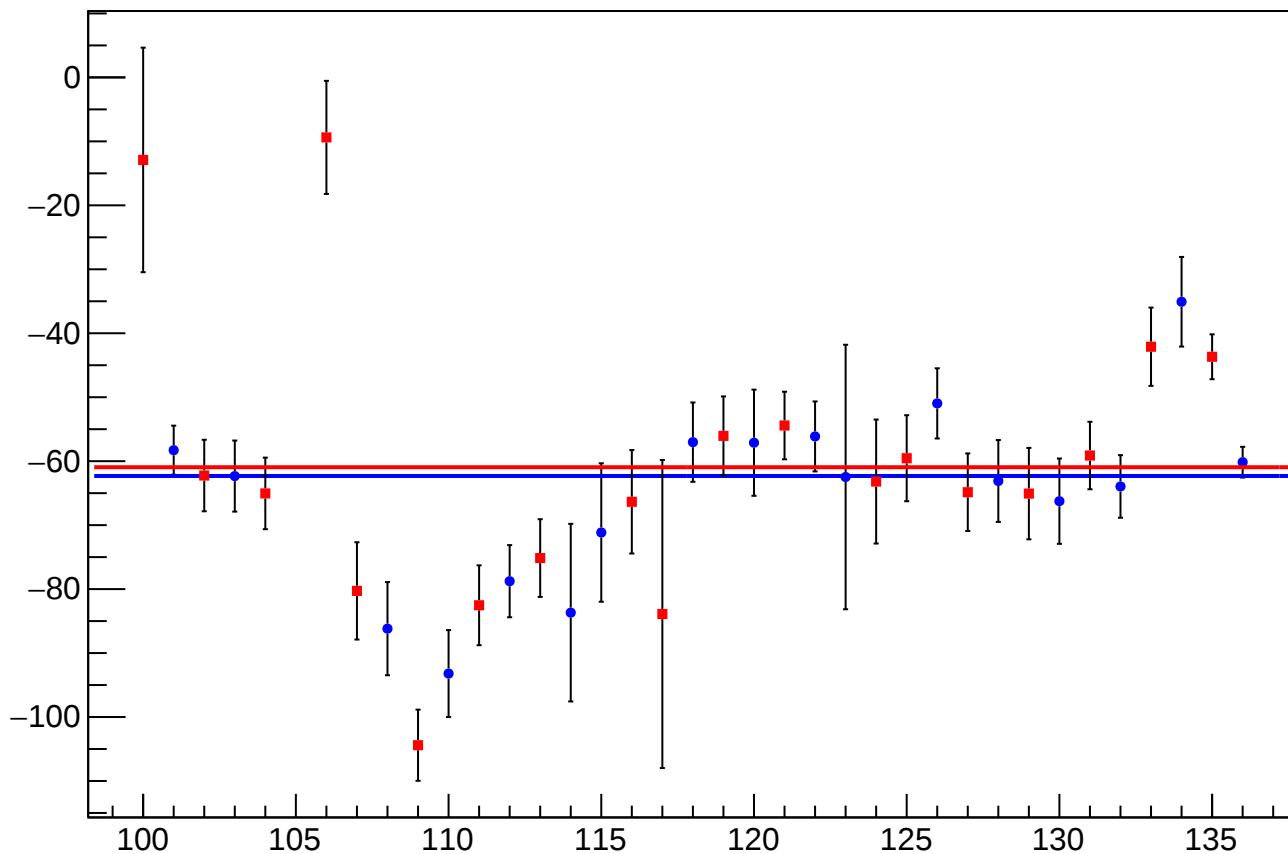
-46.579+/-0.730  $\chi^2/\text{NDF}$ : 1076.4/16

Right Out: -49.356+/-0.787  $\chi^2/\text{NDF}$ : 1272.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-49.356+/-0.787  $\chi^2/\text{NDF}$ : 1272.6/18

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -62.315+/-1.316  $\chi^2/\text{NDF}$ : 67.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

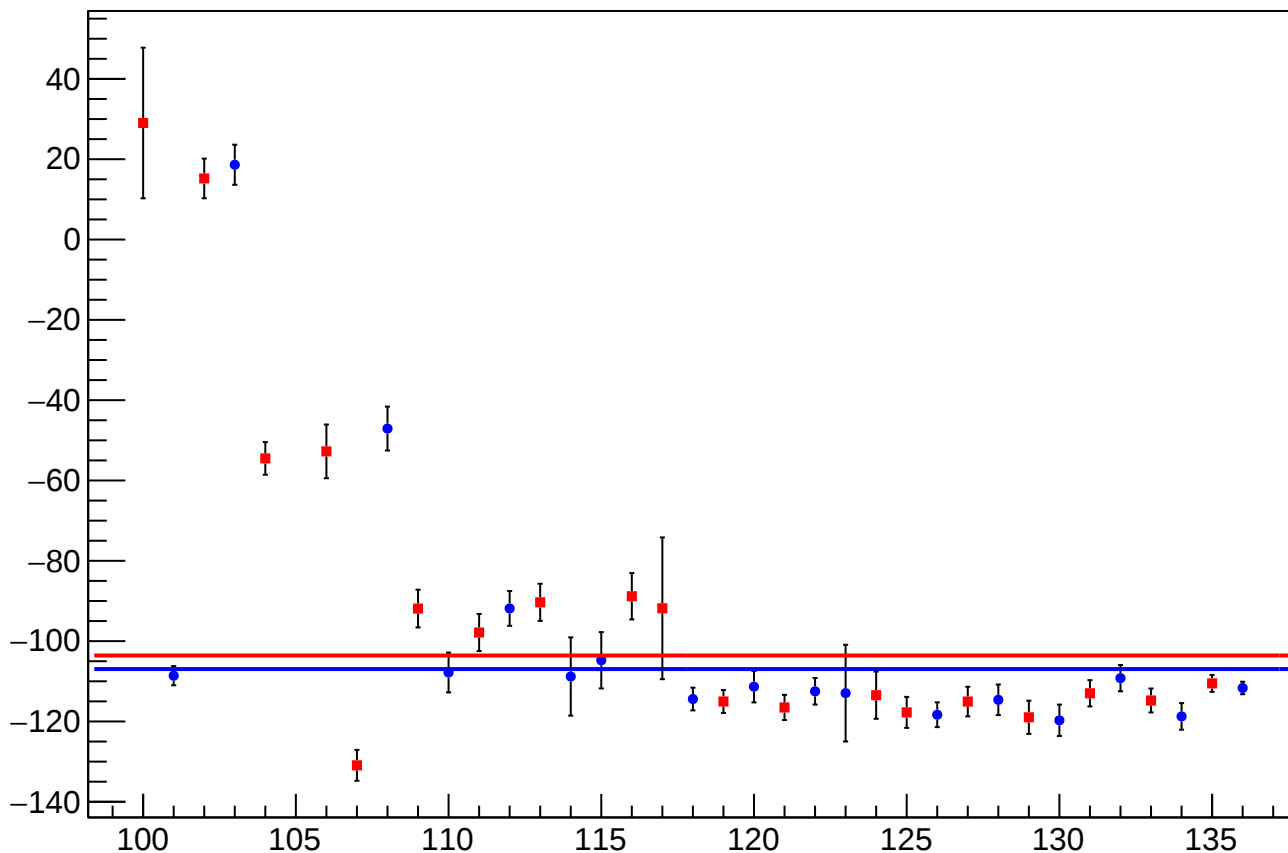
Right Out: -60.947+/-1.436  $\chi^2/\text{NDF}$ : 165.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-62.315+/-1.316  $\chi^2/\text{NDF}$ : 67.1/16

-60.947+/-1.436  $\chi^2/\text{NDF}$ : 165.2/18

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-106.954 \pm 0.817$   $\chi^2/\text{NDF}$ : 827.2/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

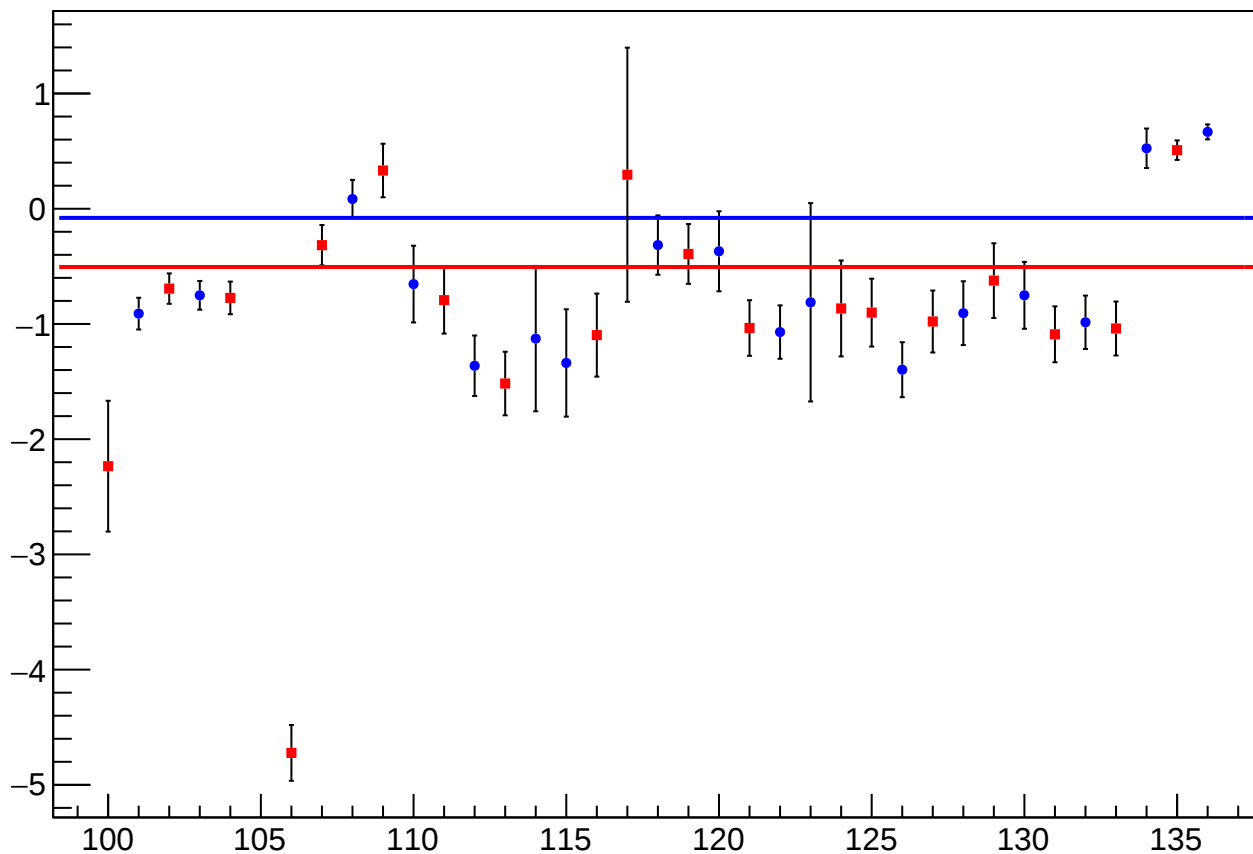
$-106.954 \pm 0.817$   $\chi^2/\text{NDF}$ : 827.2/16

Right Out:  $-103.578 \pm 0.894$   $\chi^2/\text{NDF}$ : 1012.1/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-103.578 \pm 0.894$   $\chi^2/\text{NDF}$ : 1012.1/18

# reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.079+/-0.042  $\chi^2$ /NDF: 328.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

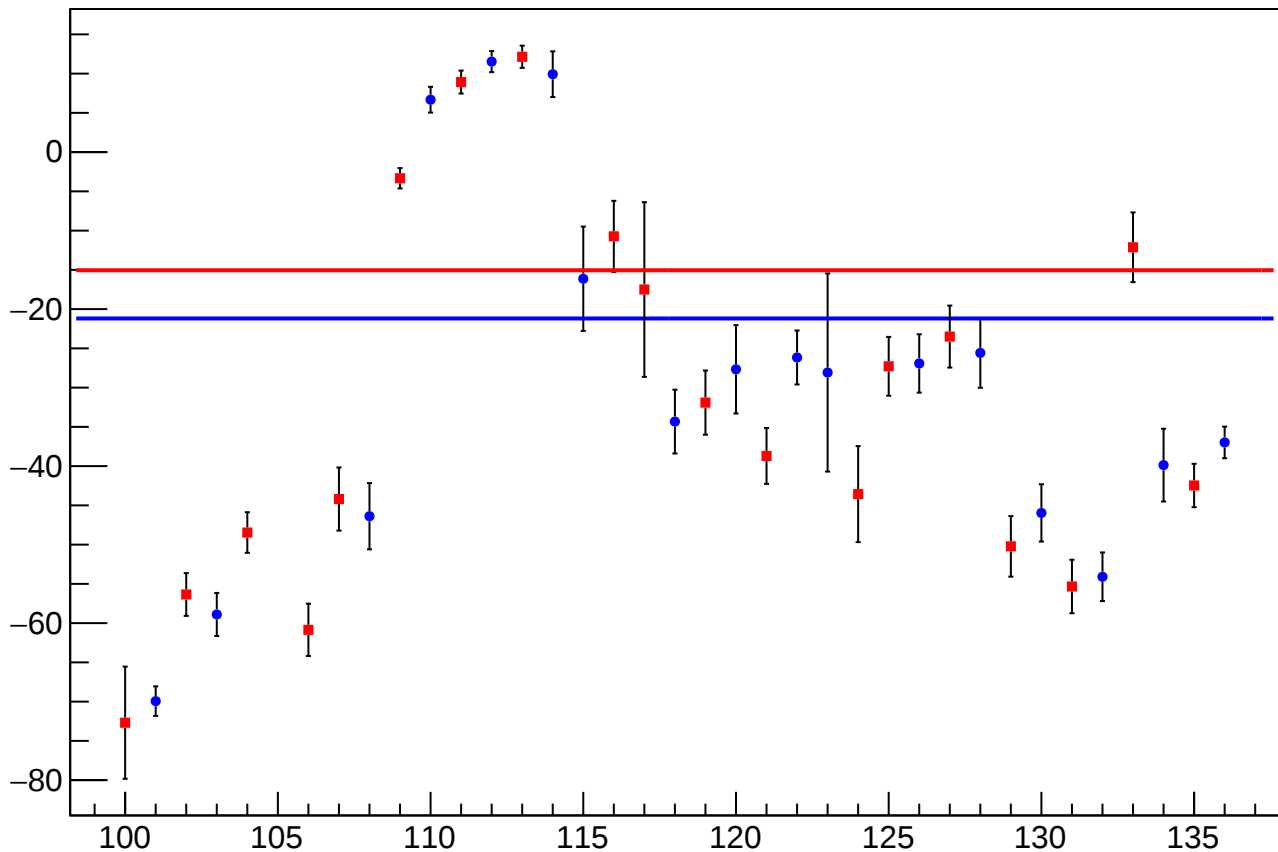
Right Out: -0.506+/-0.047  $\chi^2$ /NDF: 515.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.079+/-0.042  $\chi^2$ /NDF: 328.5/16

-0.506+/-0.047  $\chi^2$ /NDF: 515.3/18

reg\_asym\_sam\_48\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -21.194+/-0.657  $\chi^2/\text{NDF}$ : 2145.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

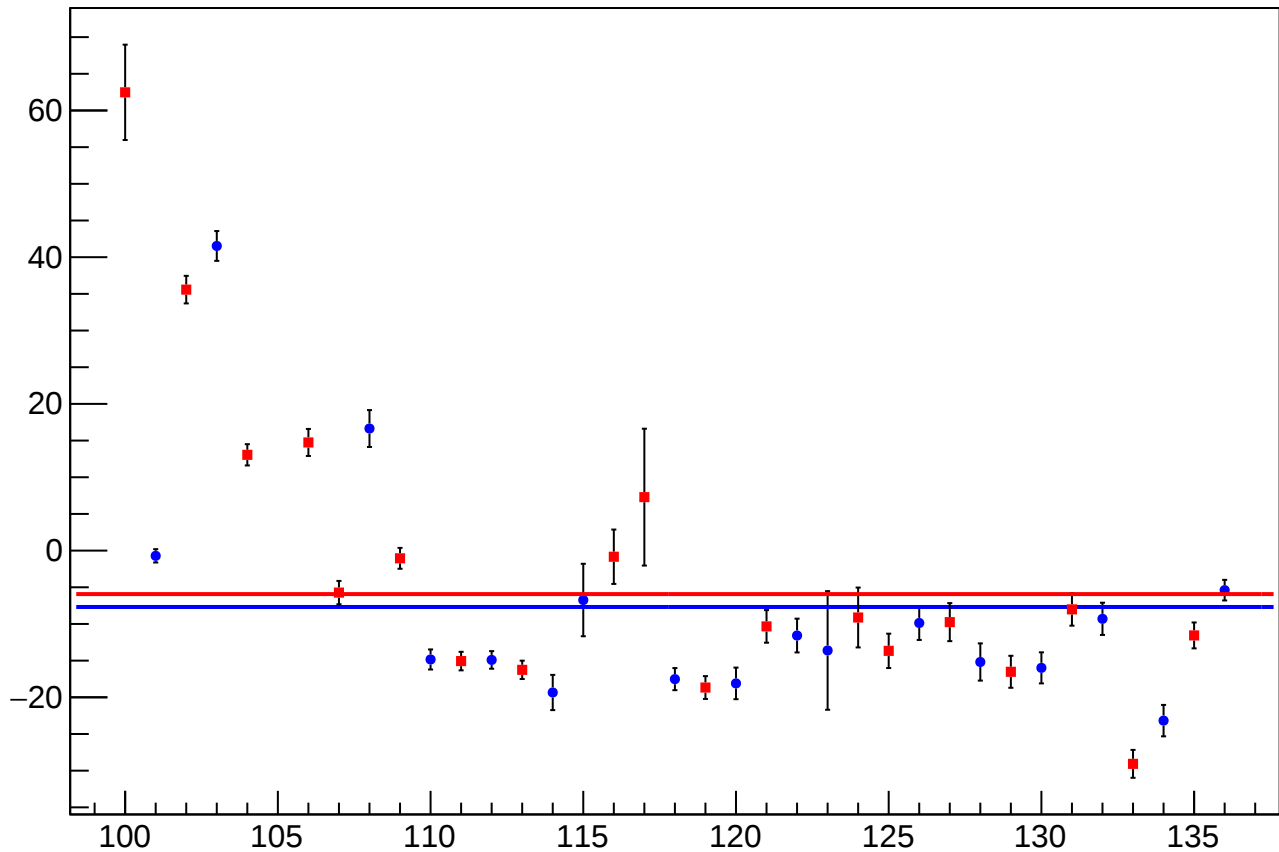
Right Out: -15.049+/-0.607  $\chi^2/\text{NDF}$ : 1843.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-21.194+/-0.657  $\chi^2/\text{NDF}$ : 2145.3/16

-15.049+/-0.607  $\chi^2/\text{NDF}$ : 1843.2/18

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -7.686+/-0.430  $\chi^2/\text{NDF}$ : 975.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

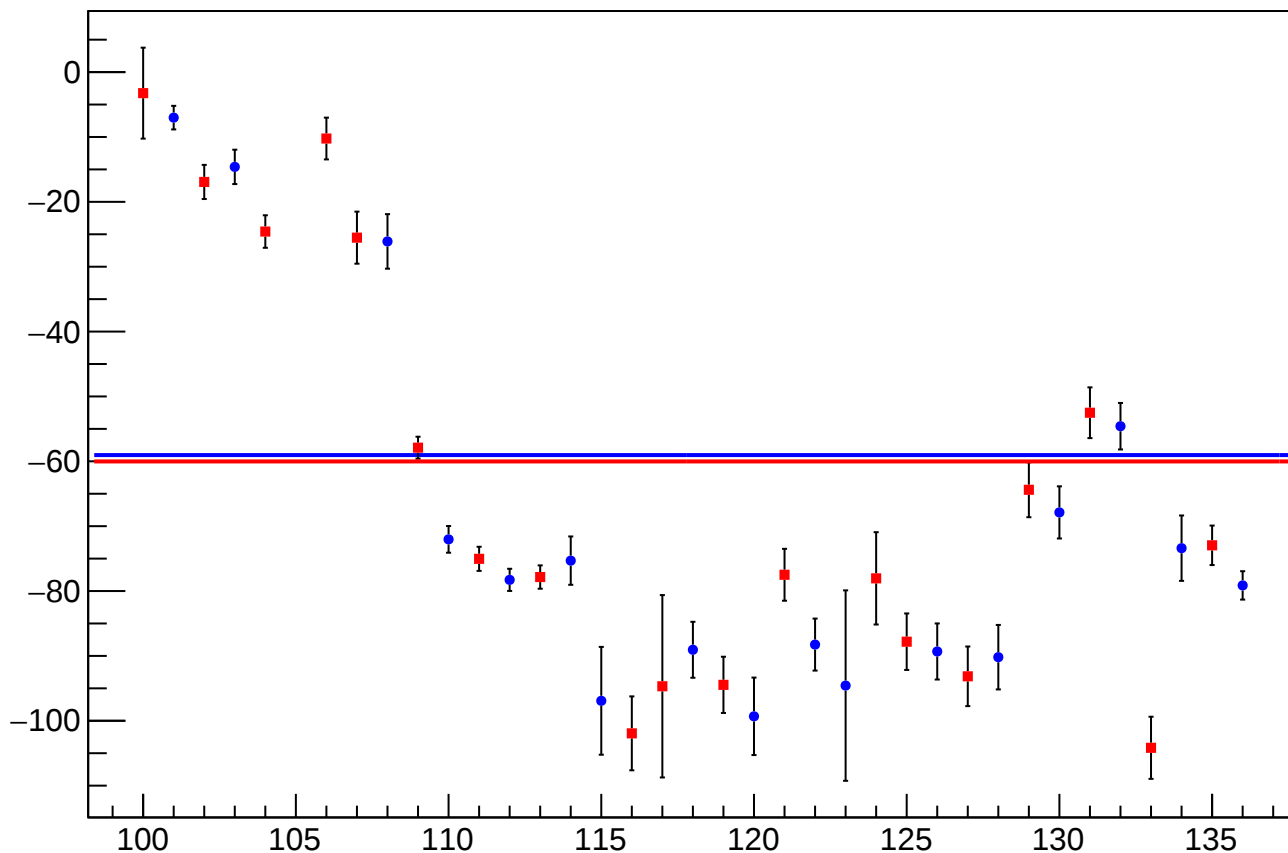
Right Out: -5.929+/-0.433  $\chi^2/\text{NDF}$ : 1300.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-7.686+/-0.430  $\chi^2/\text{NDF}$ : 975.9/16

-5.929+/-0.433  $\chi^2/\text{NDF}$ : 1300.1/18

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -59.039 $\pm$ 0.746  $\chi^2$ /NDF: 1709.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

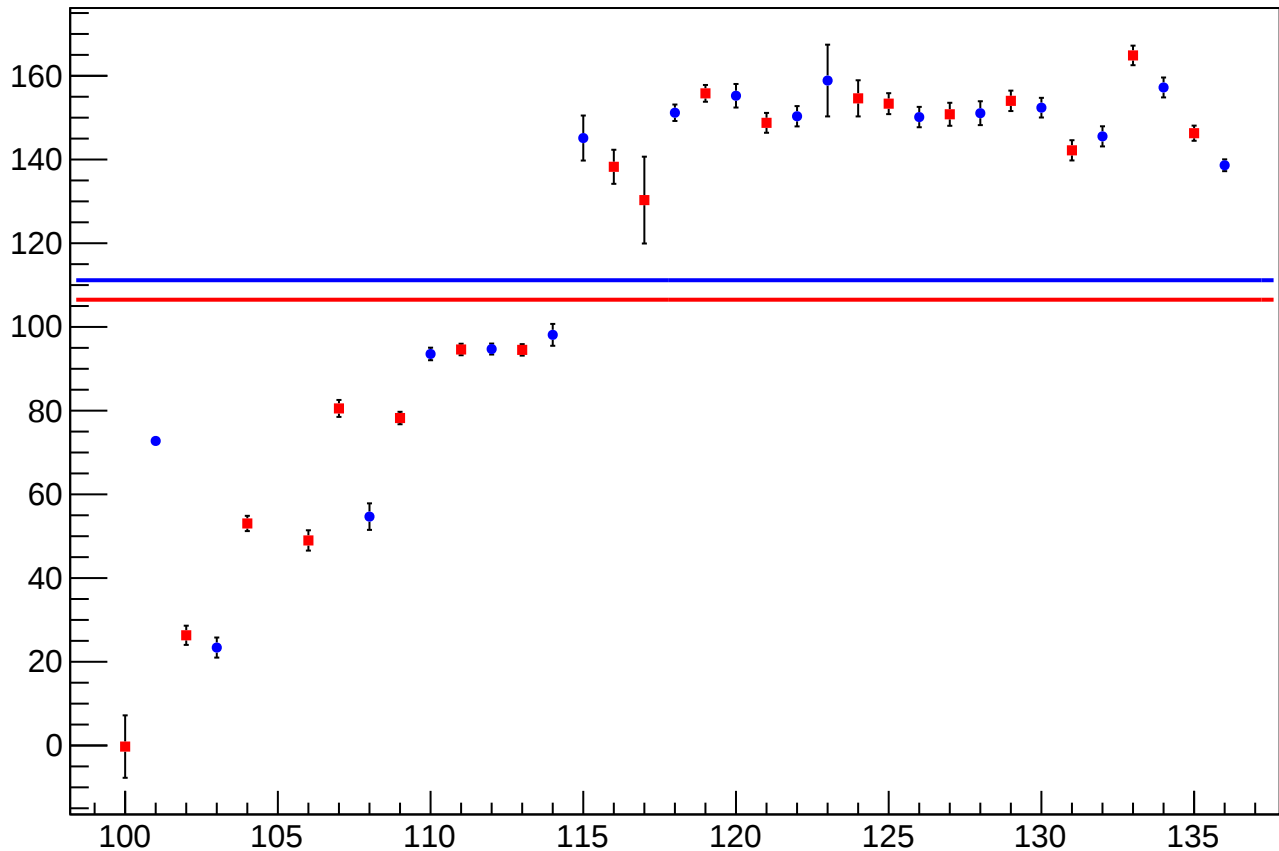
Right Out: -60.020 $\pm$ 0.711  $\chi^2$ /NDF: 1361.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-59.039 $\pm$ 0.746  $\chi^2$ /NDF: 1709.5/16

-60.020 $\pm$ 0.711  $\chi^2$ /NDF: 1361.3/18

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 111.160 $\pm$ 0.489  $\chi^2$ /NDF: 5877.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

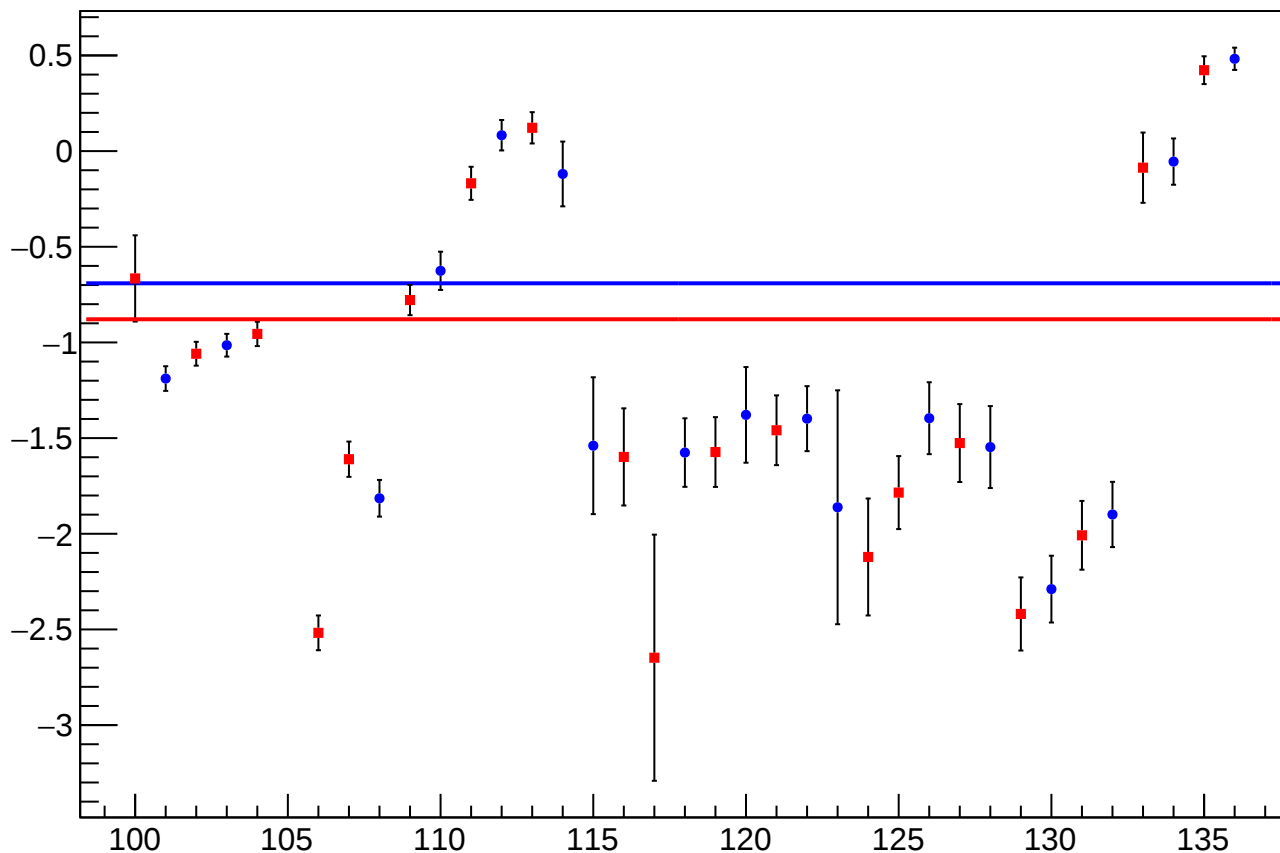
Right Out: 106.506 $\pm$ 0.494  $\chi^2$ /NDF: 6951.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

111.160 $\pm$ 0.489  $\chi^2$ /NDF: 5877.6/16

106.506 $\pm$ 0.494  $\chi^2$ /NDF: 6951.4/18

# reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.691+/-0.026  $\chi^2/\text{NDF}$ : 990.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

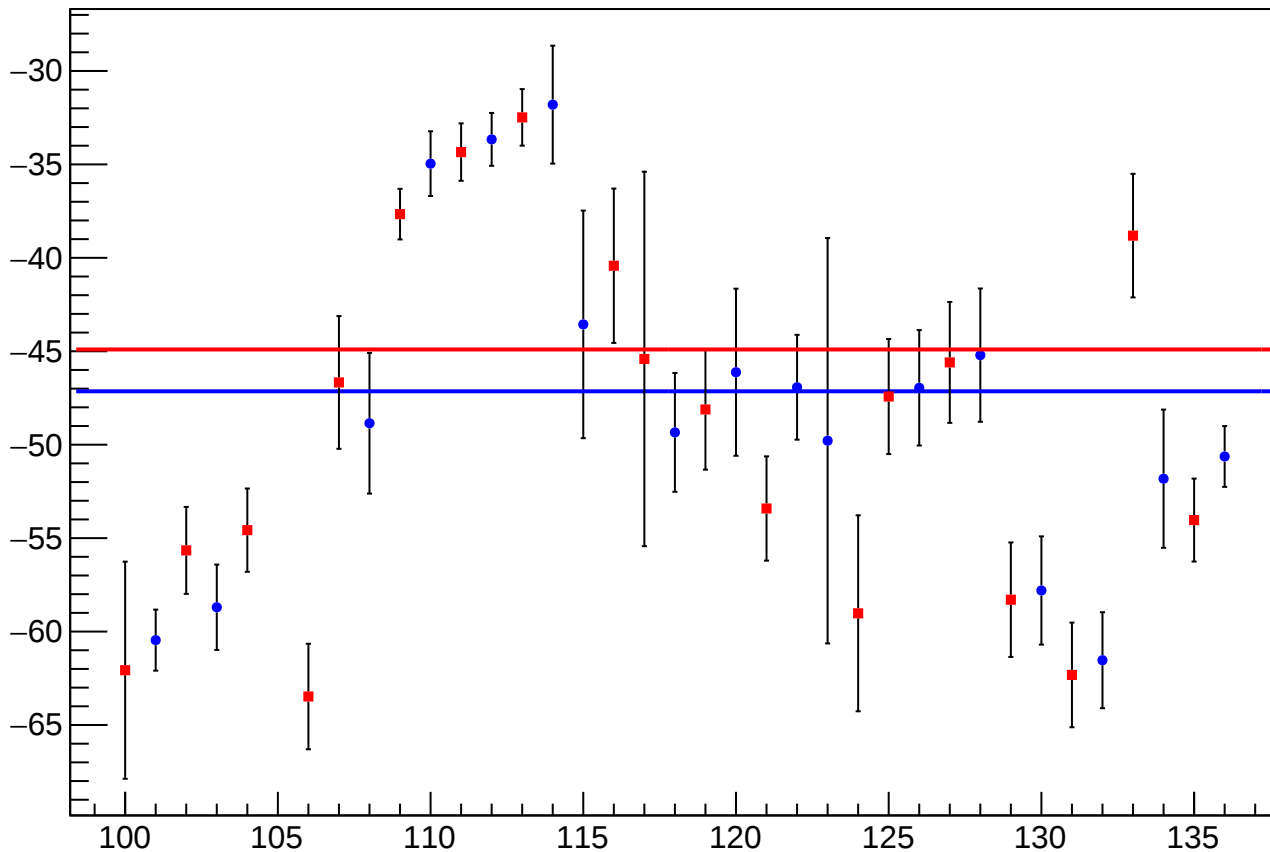
Right Out: -0.879+/-0.025  $\chi^2/\text{NDF}$ : 1151.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.691+/-0.026  $\chi^2/\text{NDF}$ : 990.9/16

-0.879+/-0.025  $\chi^2/\text{NDF}$ : 1151.4/18

reg\_asym\_sam\_48\_dd\_diff\_bpm4aX\_slope vs Slug



Right In:  $-47.143 \pm 0.599$   $\chi^2/\text{NDF}$ : 308.5/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

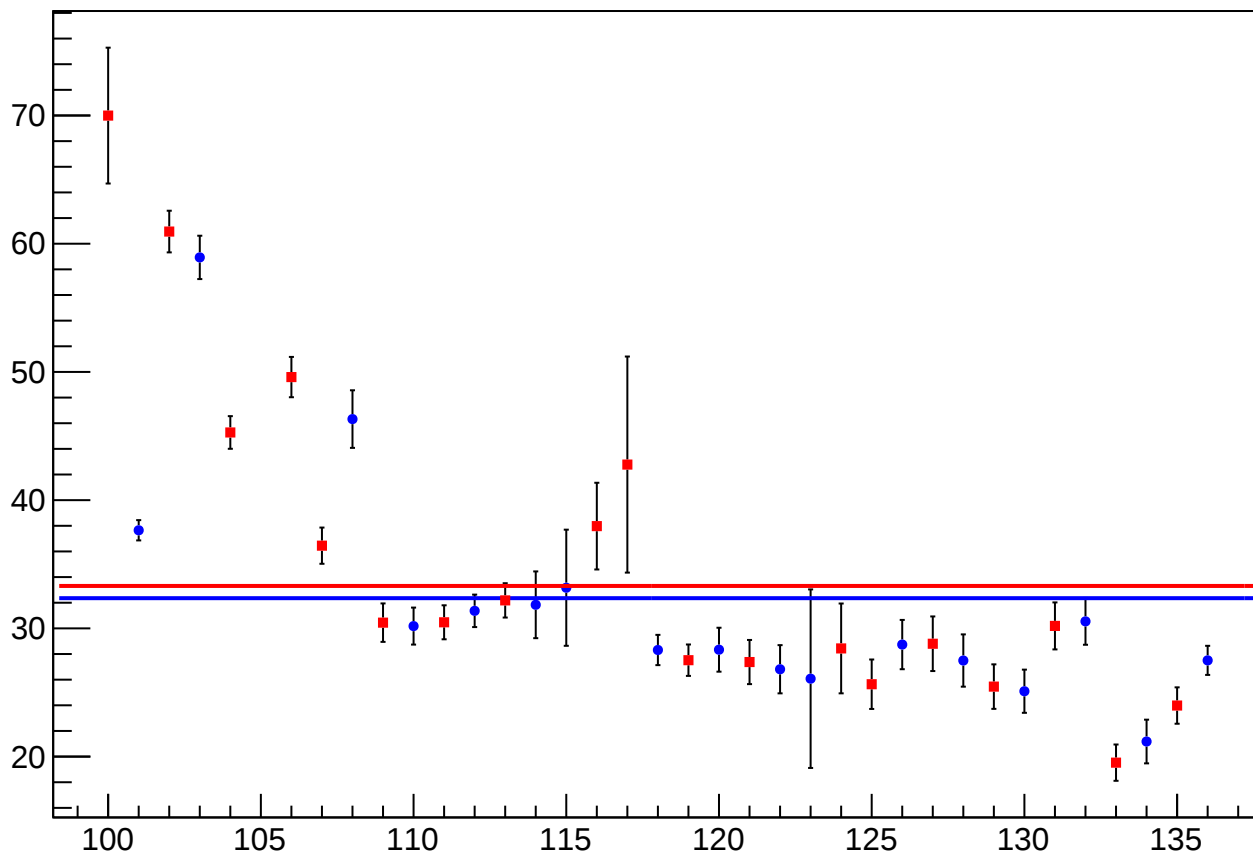
Right Out:  $-44.903 \pm 0.569$   $\chi^2/\text{NDF}$ : 333.2/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-47.143 \pm 0.599$   $\chi^2/\text{NDF}$ : 308.5/16

$-44.903 \pm 0.569$   $\chi^2/\text{NDF}$ : 333.2/18

# reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 32.355+/-0.375  $\chi^2/\text{NDF}$ : 450.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

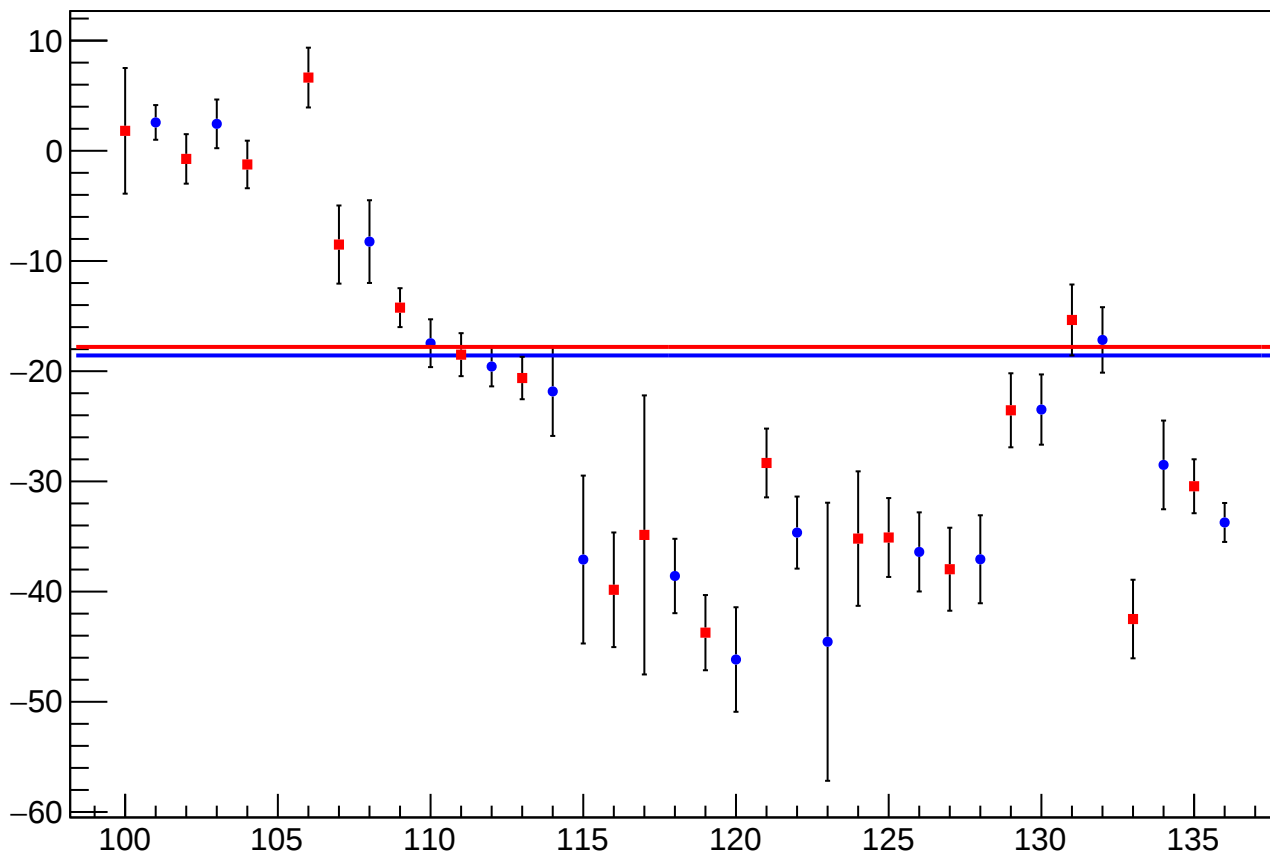
Right Out: 33.309+/-0.383  $\chi^2/\text{NDF}$ : 768.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

32.355+/-0.375  $\chi^2/\text{NDF}$ : 450.5/16

33.309+/-0.383  $\chi^2/\text{NDF}$ : 768.0/18

reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -18.572 $\pm$ 0.667  $\chi^2$ /NDF: 511.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

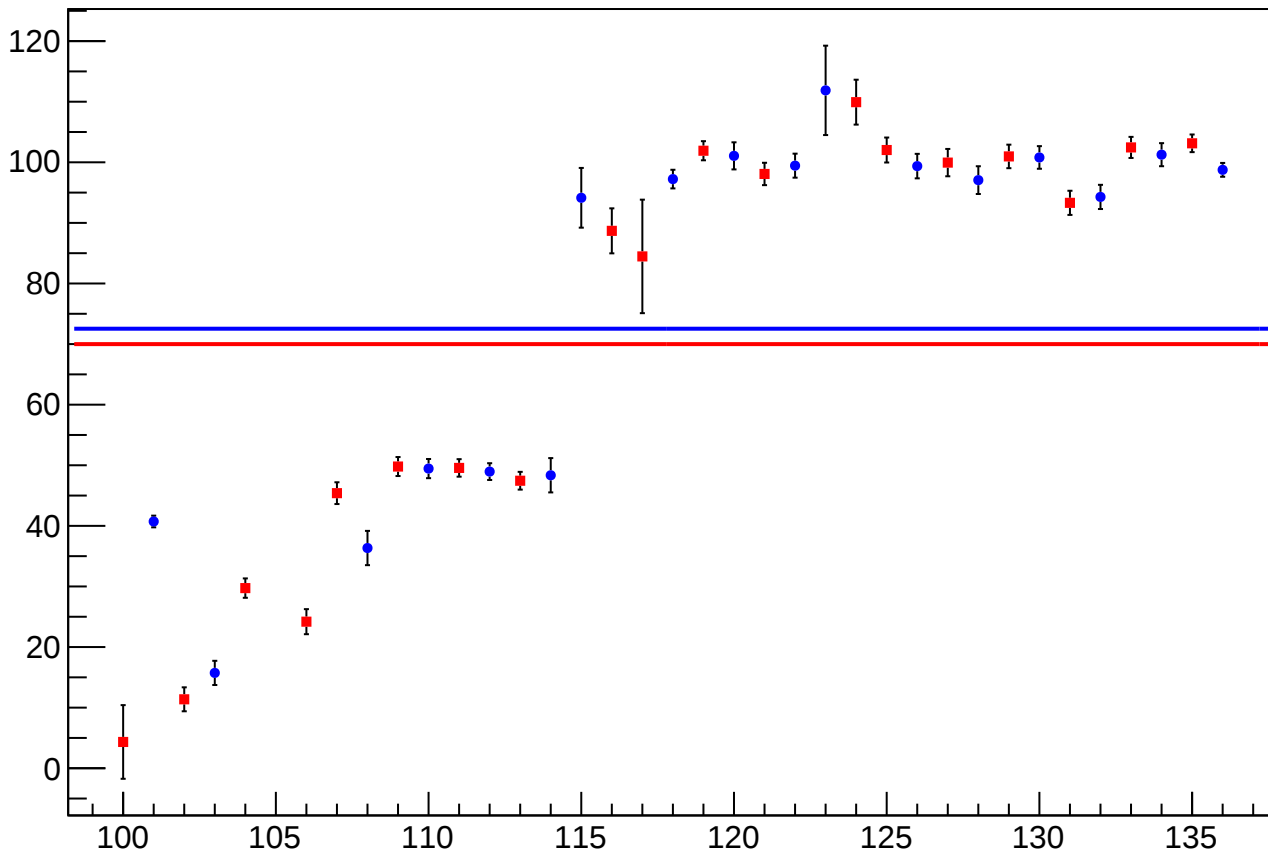
Right Out: -17.797 $\pm$ 0.652  $\chi^2$ /NDF: 450.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-18.572 $\pm$ 0.667  $\chi^2$ /NDF: 511.5/16

-17.797 $\pm$ 0.652  $\chi^2$ /NDF: 450.0/18

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 72.537+/-0.428  $\chi^2/\text{NDF}$ : 4684.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

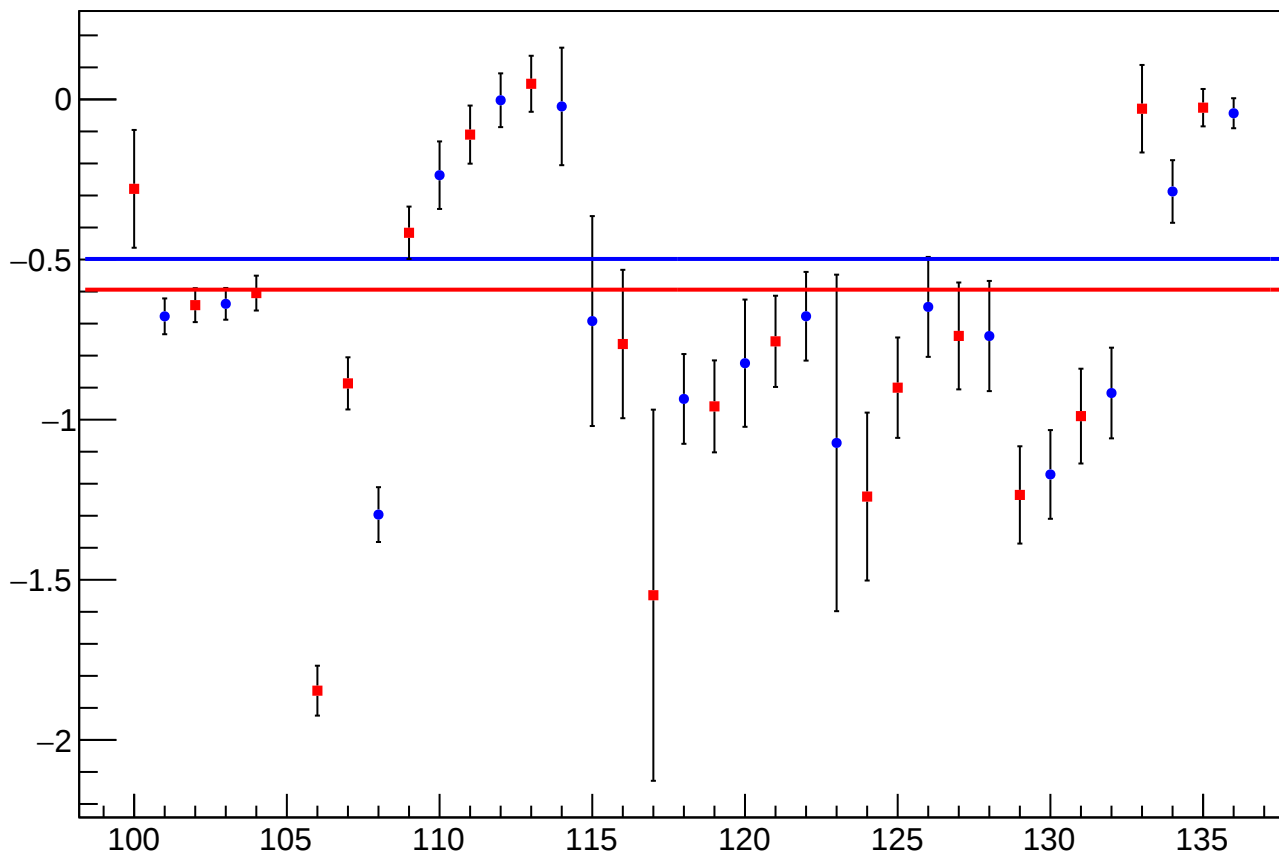
Right Out: 69.994+/-0.440  $\chi^2/\text{NDF}$ : 5372.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

72.537+/-0.428  $\chi^2/\text{NDF}$ : 4684.1/16

69.994+/-0.440  $\chi^2/\text{NDF}$ : 5372.0/18

# reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.498+/-0.022  $\chi^2/\text{NDF}$ : 302.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

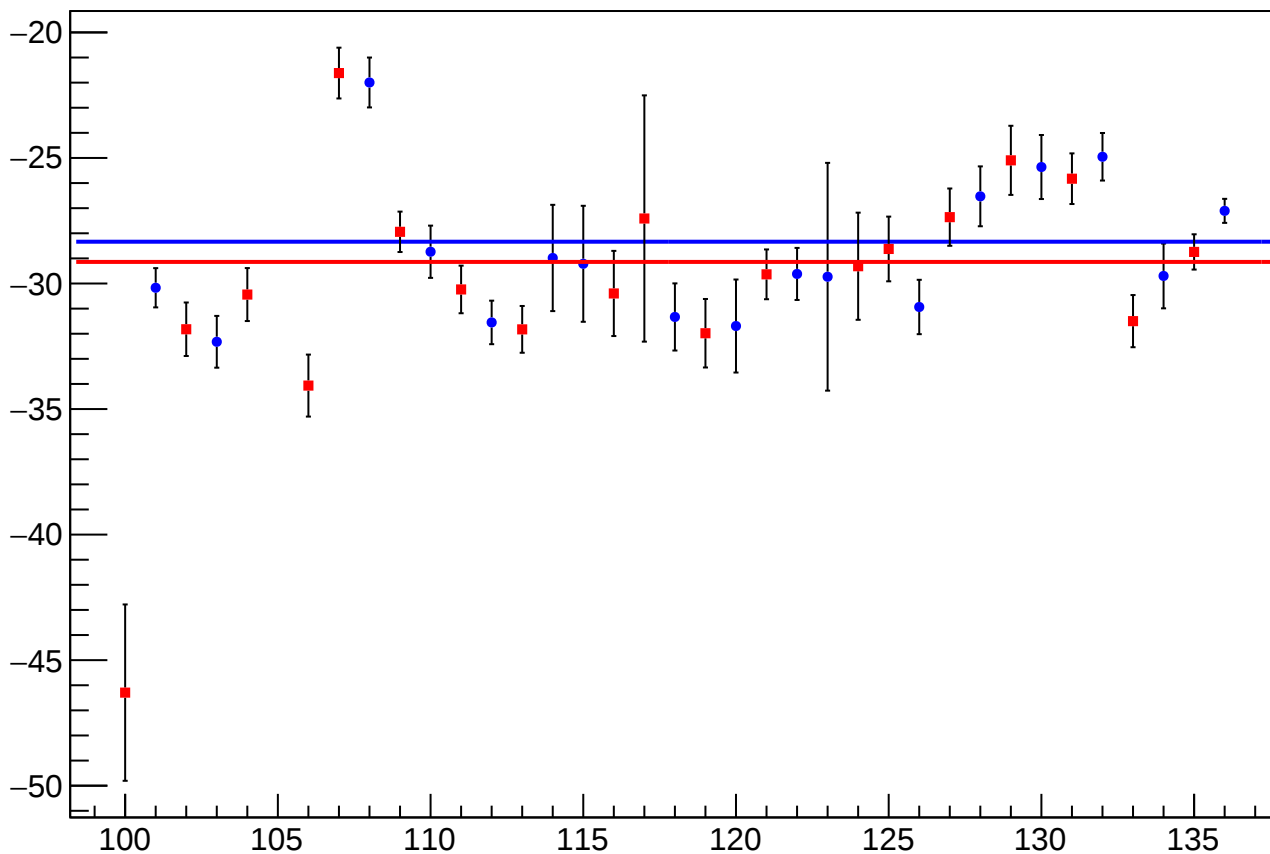
Right Out: -0.594+/-0.022  $\chi^2/\text{NDF}$ : 520.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.498+/-0.022  $\chi^2/\text{NDF}$ : 302.8/16

-0.594+/-0.022  $\chi^2/\text{NDF}$ : 520.6/18

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -28.336 $\pm$ 0.247  $\chi^2$ /NDF: 119.3/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

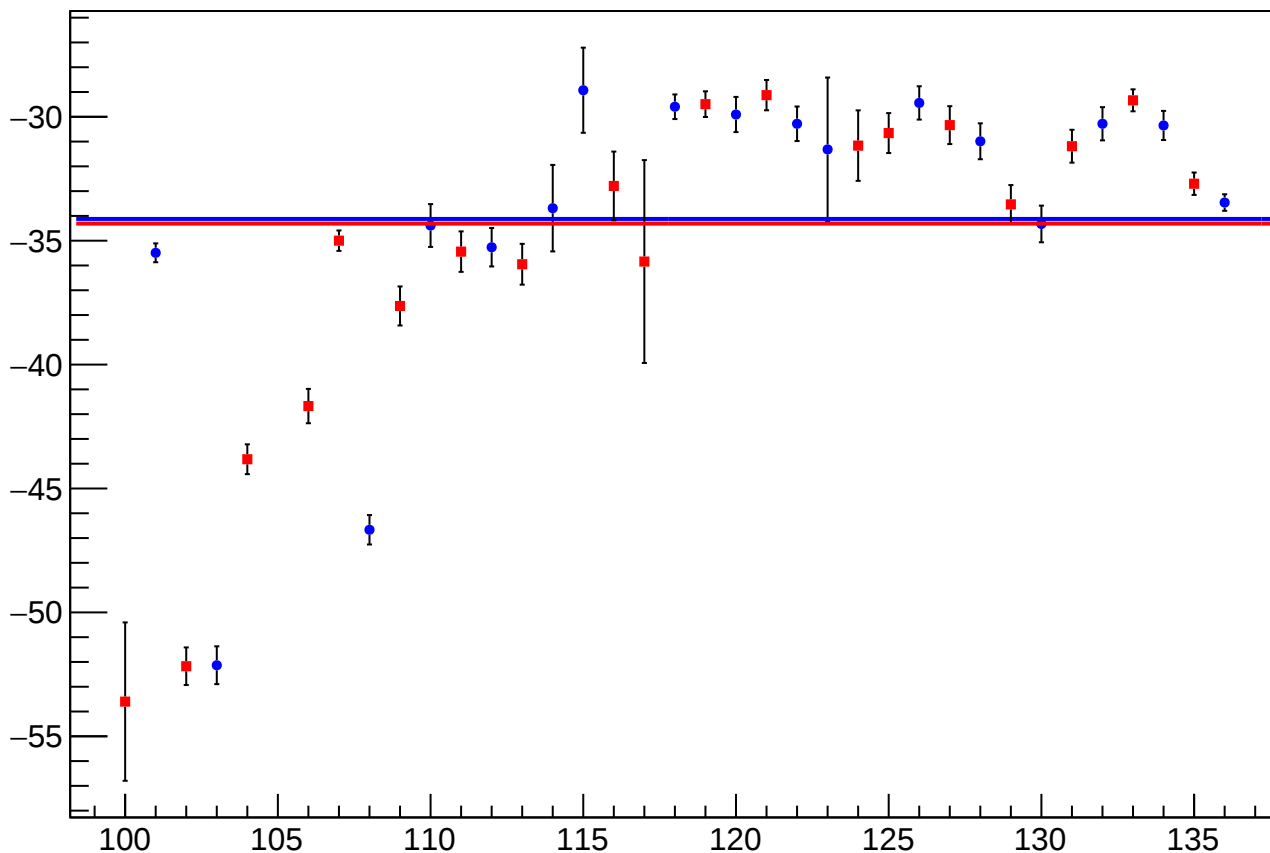
Right Out: -29.140 $\pm$ 0.256  $\chi^2$ /NDF: 147.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-28.336 $\pm$ 0.247  $\chi^2$ /NDF: 119.3/16

-29.140 $\pm$ 0.256  $\chi^2$ /NDF: 147.6/18

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -34.122 $\pm$ 0.152  $\chi^2$ /NDF: 1322.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

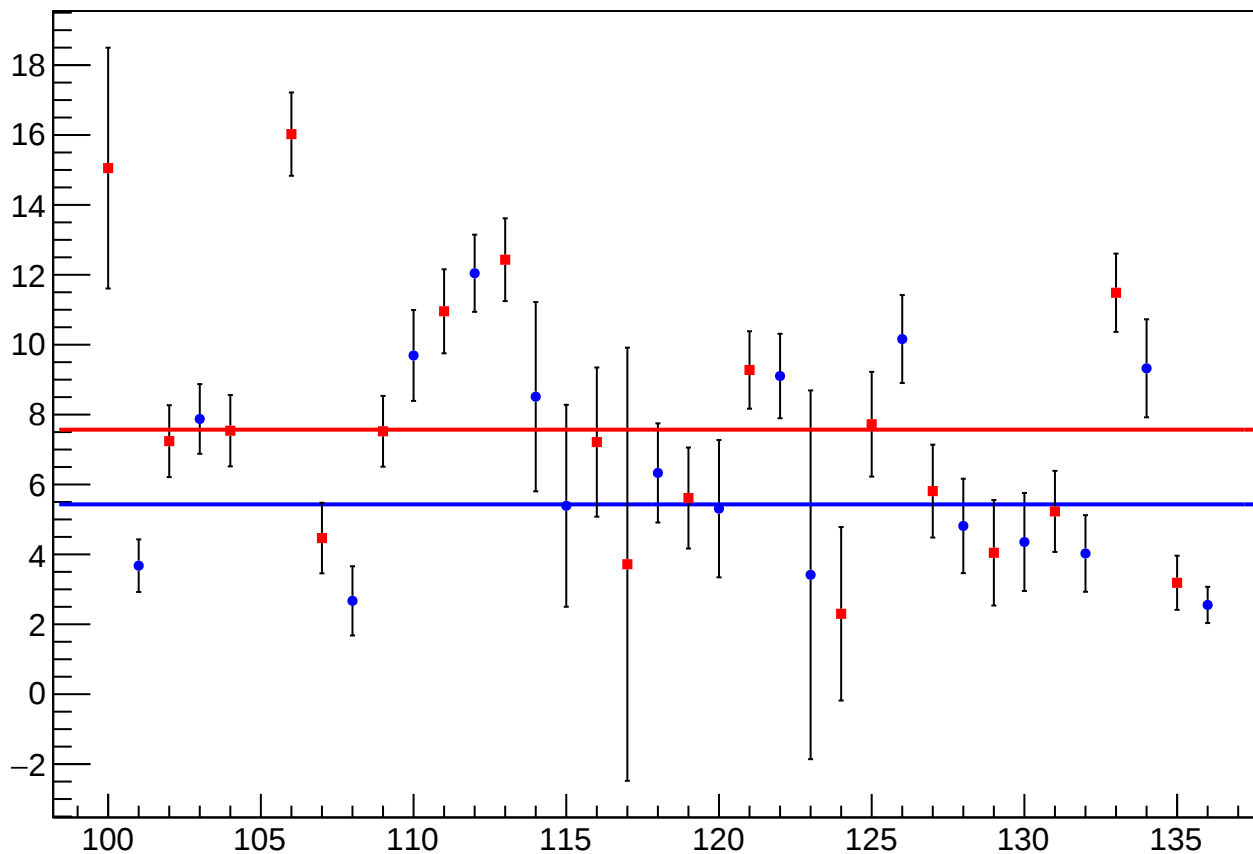
-34.122 $\pm$ 0.152  $\chi^2$ /NDF: 1322.4/16

Right Out: -34.310 $\pm$ 0.155  $\chi^2$ /NDF: 1353.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-34.310 $\pm$ 0.155  $\chi^2$ /NDF: 1353.2/18

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 5.431+/-0.270  $\chi^2/\text{NDF}$ : 132.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

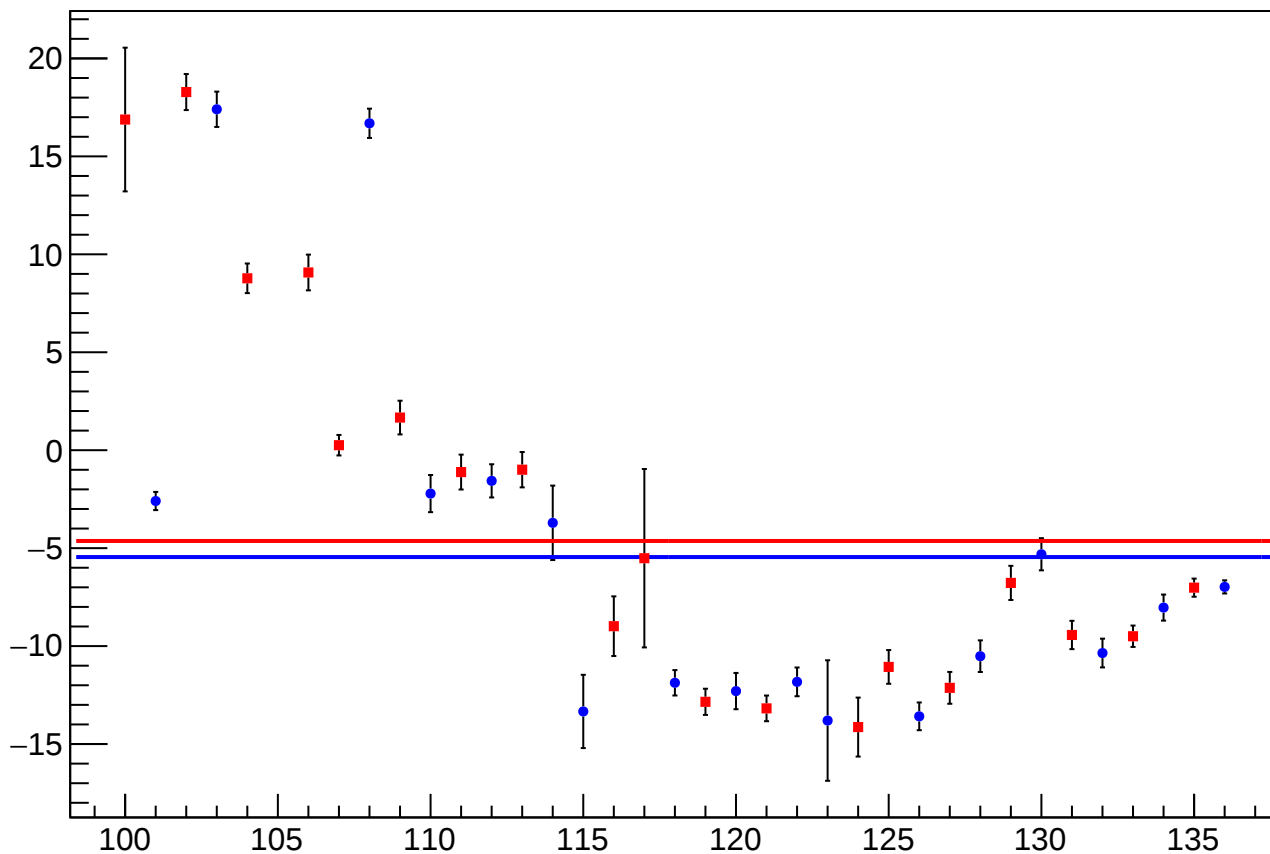
Right Out: 7.569+/-0.284  $\chi^2/\text{NDF}$ : 154.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.431+/-0.270  $\chi^2/\text{NDF}$ : 132.0/16

7.569+/-0.284  $\chi^2/\text{NDF}$ : 154.1/18

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-5.455 \pm 0.171$   $\chi^2/\text{NDF}$ : 2096.5/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

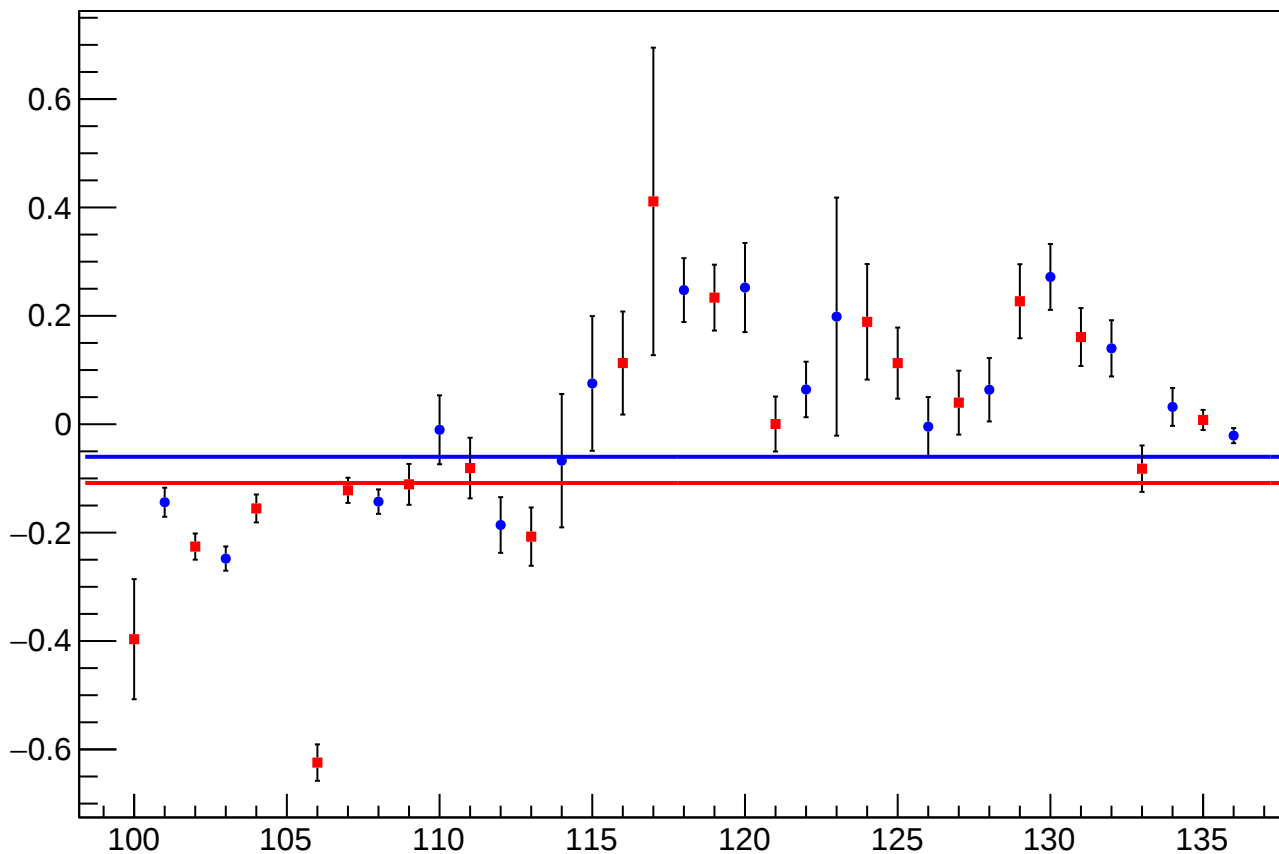
Right Out:  $-4.634 \pm 0.179$   $\chi^2/\text{NDF}$ : 2034.2/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-5.455 \pm 0.171$   $\chi^2/\text{NDF}$ : 2096.5/16

$-4.634 \pm 0.179$   $\chi^2/\text{NDF}$ : 2034.2/18

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.060+/-0.008  $\chi^2$ /NDF: 215.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

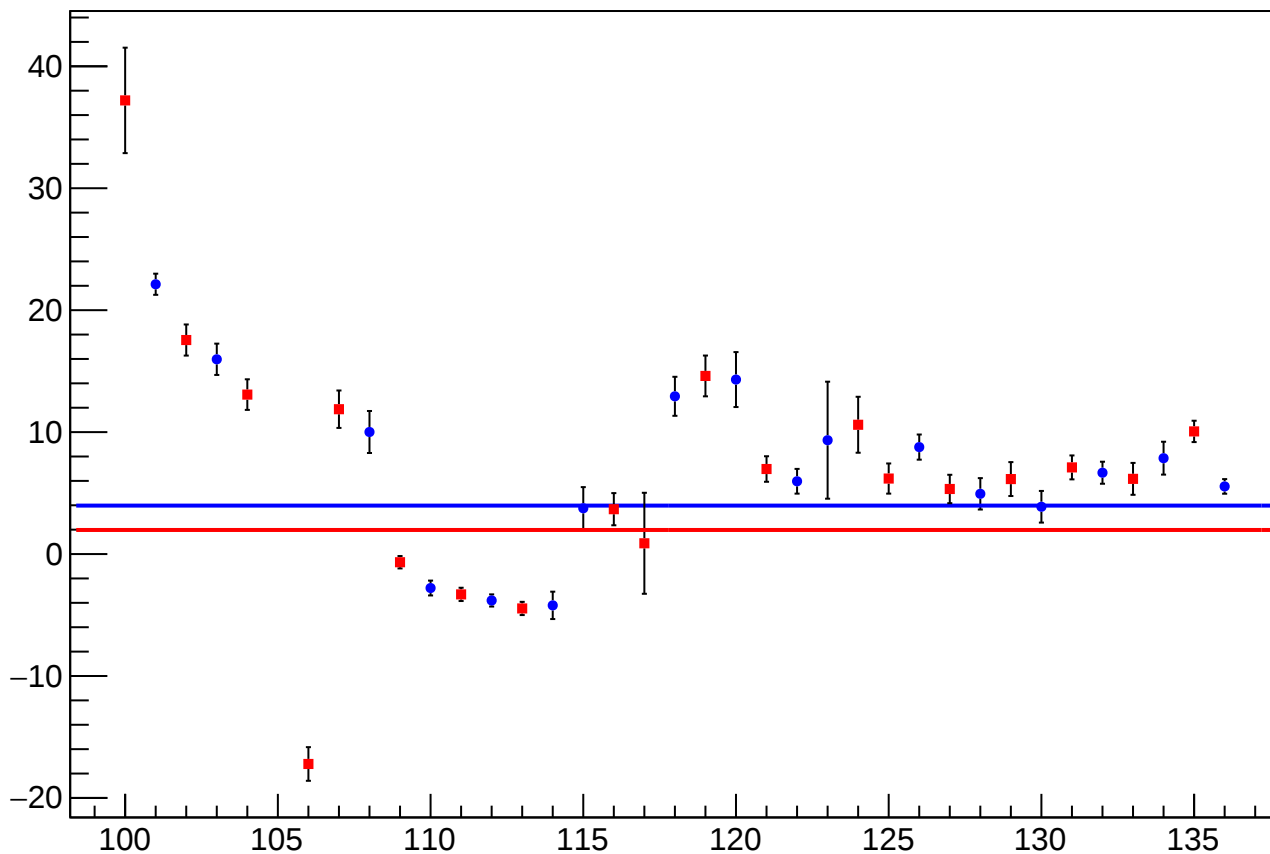
Right Out: -0.108+/-0.009  $\chi^2$ /NDF: 433.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.060+/-0.008  $\chi^2$ /NDF: 215.5/16

-0.108+/-0.009  $\chi^2$ /NDF: 433.1/18

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: 3.974+/-0.233  $\chi^2/\text{NDF}$ : 1061.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

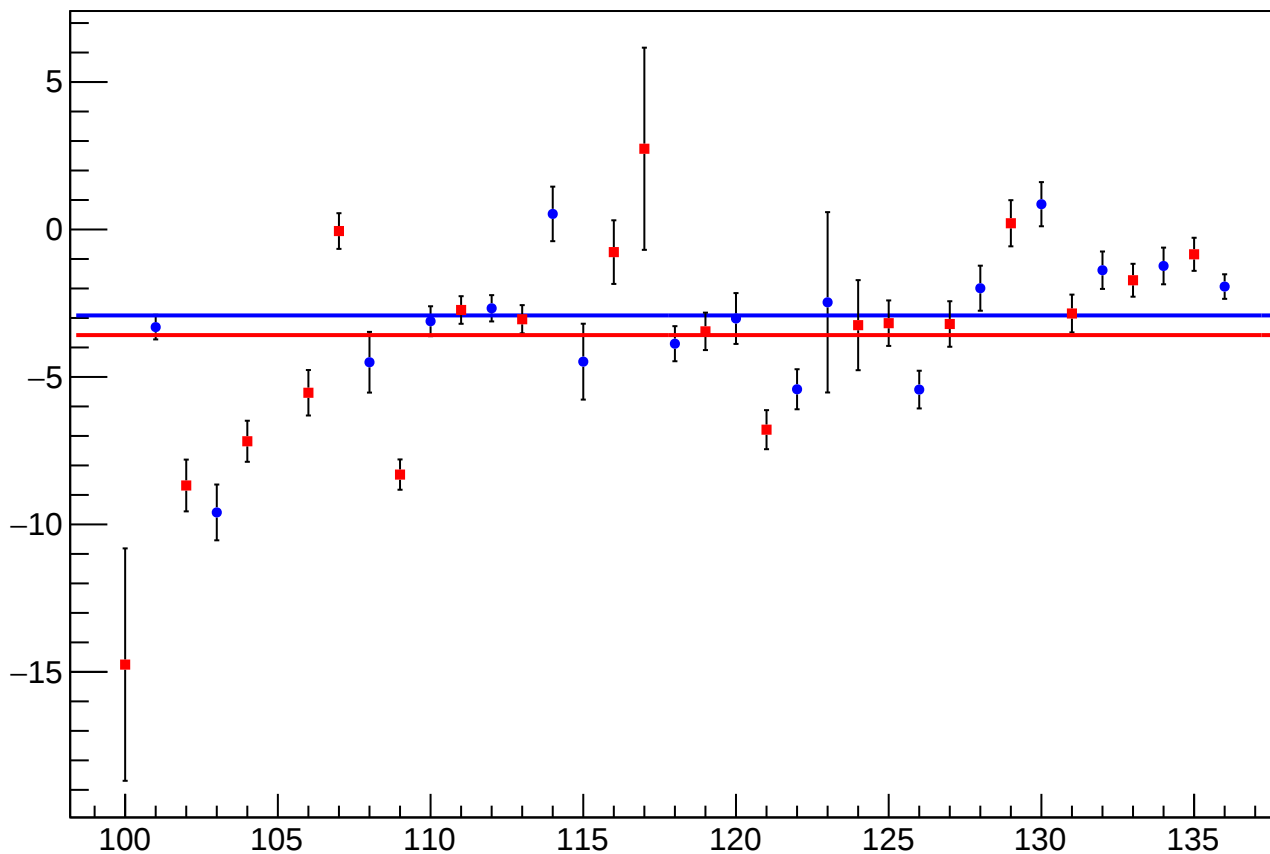
Right Out: 1.975+/-0.225  $\chi^2/\text{NDF}$ : 1038.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.974+/-0.233  $\chi^2/\text{NDF}$ : 1061.1/16

1.975+/-0.225  $\chi^2/\text{NDF}$ : 1038.5/18

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -2.914+/-0.155  $\chi^2/\text{NDF}$ : 146.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

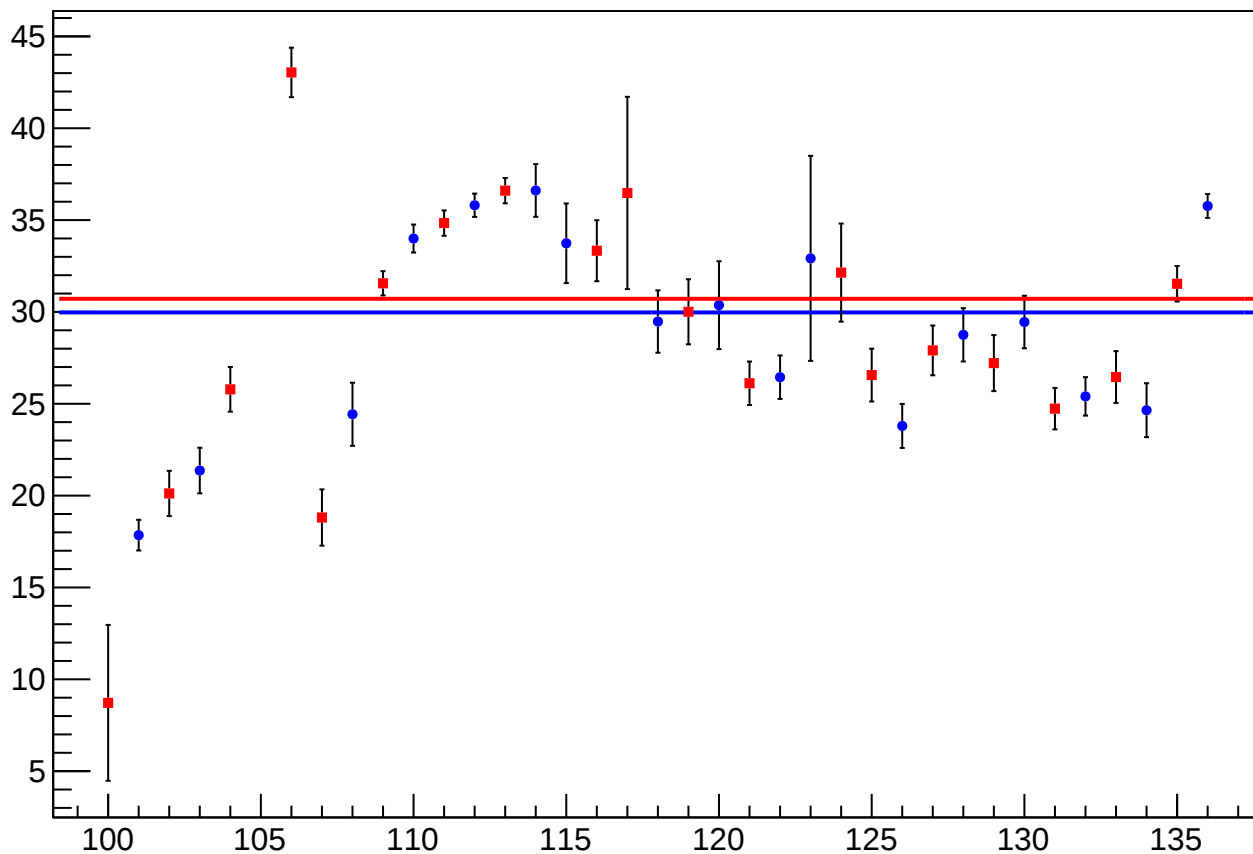
Right Out: -3.581+/-0.157  $\chi^2/\text{NDF}$ : 292.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.914+/-0.155  $\chi^2/\text{NDF}$ : 146.1/16

-3.581+/-0.157  $\chi^2/\text{NDF}$ : 292.2/18

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.972+/-0.267  $\chi^2/\text{NDF}$ : 554.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

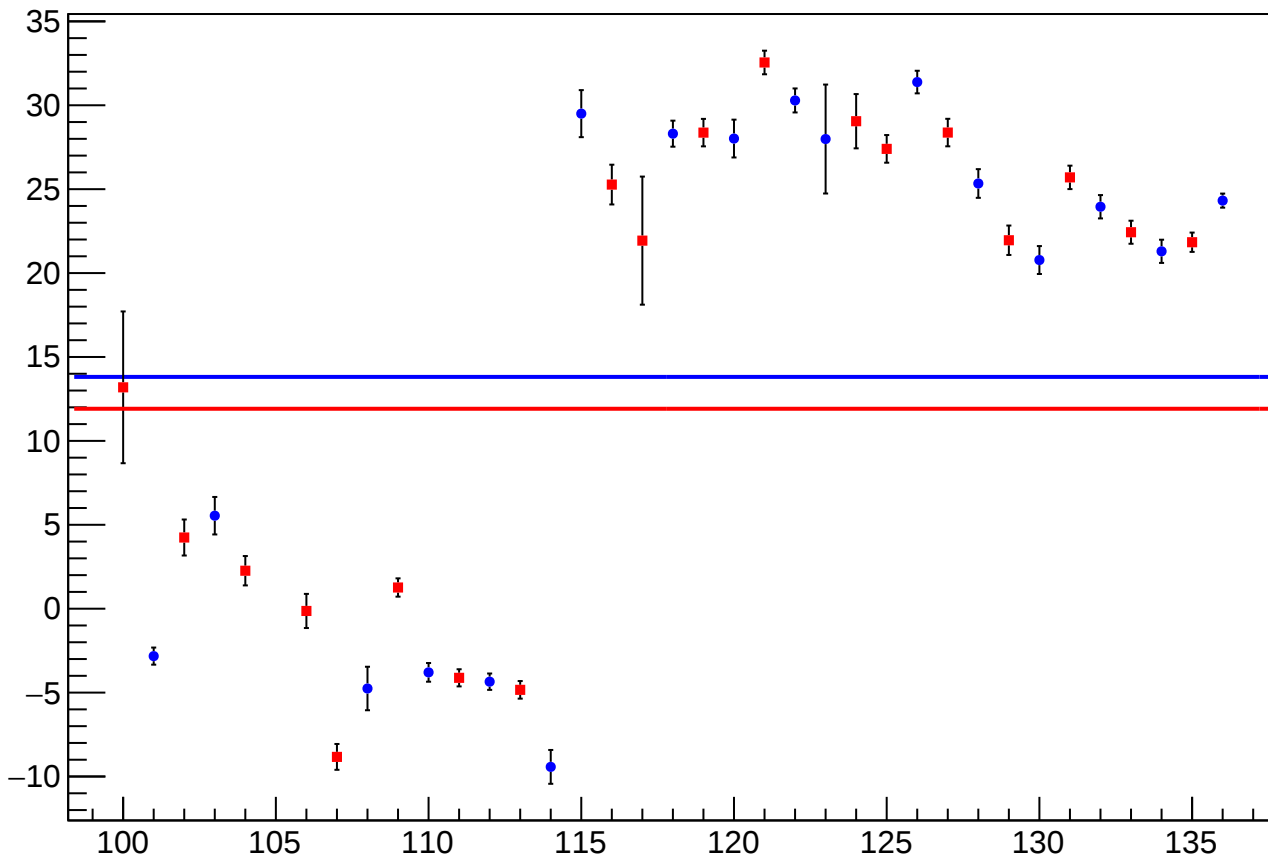
Right Out: 30.715+/-0.265  $\chi^2/\text{NDF}$ : 446.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

29.972+/-0.267  $\chi^2/\text{NDF}$ : 554.3/16

30.715+/-0.265  $\chi^2/\text{NDF}$ : 446.9/18

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 13.813+/-0.173  $\chi^2/\text{NDF}$ : 7318.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

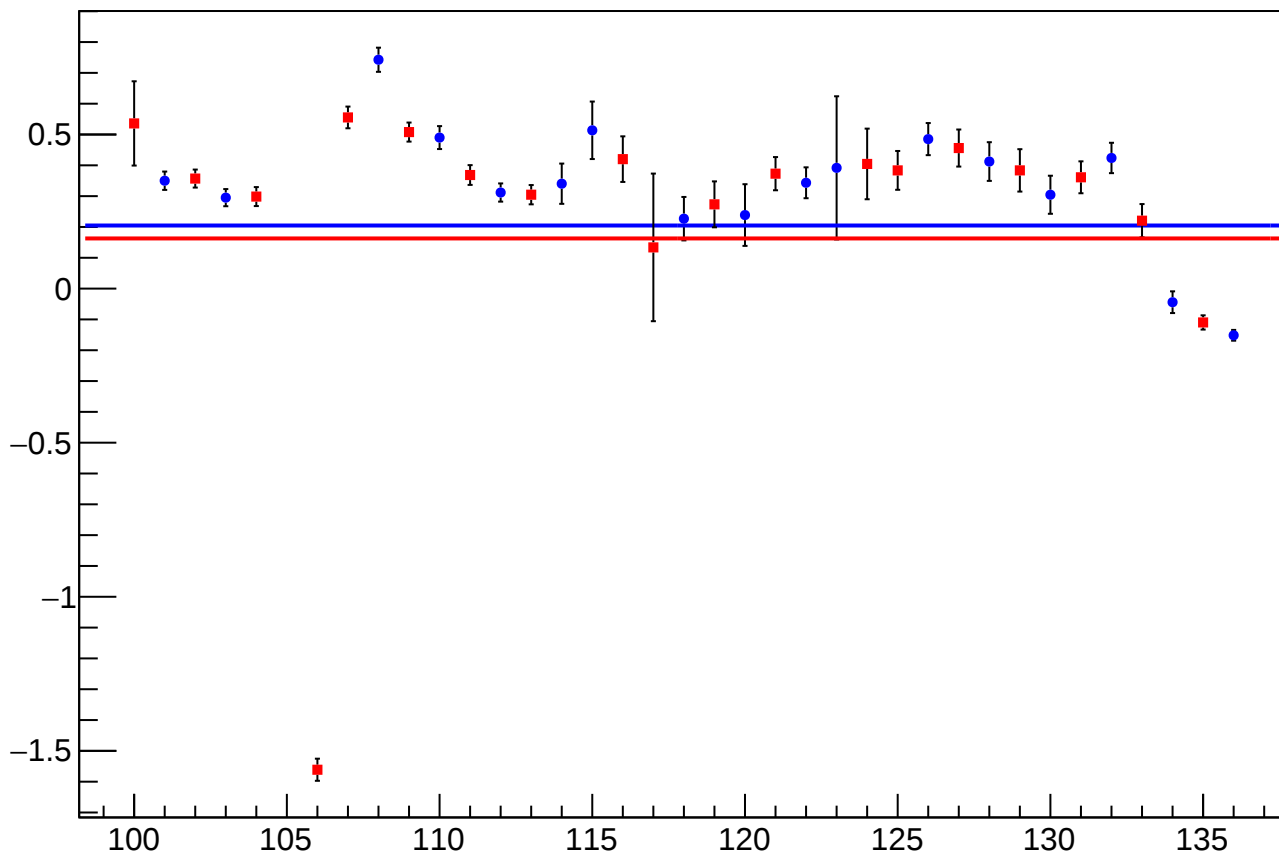
Right Out: 11.914+/-0.177  $\chi^2/\text{NDF}$ : 6746.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13.813+/-0.173  $\chi^2/\text{NDF}$ : 7318.6/16

11.914+/-0.177  $\chi^2/\text{NDF}$ : 6746.0/18

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.205+/-0.009  $\chi^2/\text{NDF}$ : 845.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

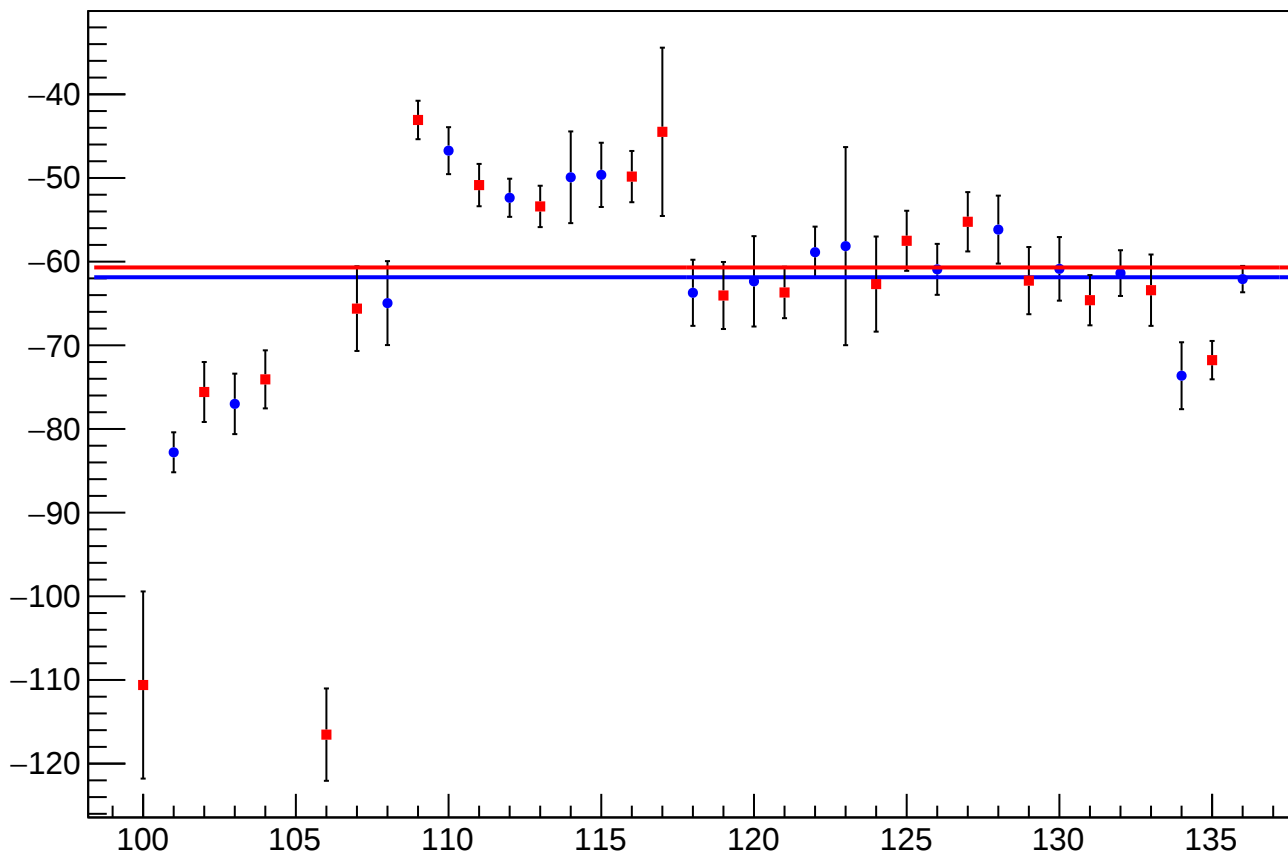
Right Out: 0.163+/-0.010  $\chi^2/\text{NDF}$ : 2924.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.205+/-0.009  $\chi^2/\text{NDF}$ : 845.8/16

0.163+/-0.010  $\chi^2/\text{NDF}$ : 2924.7/18

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -61.865+/-0.753  $\chi^2/\text{NDF}$ : 168.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

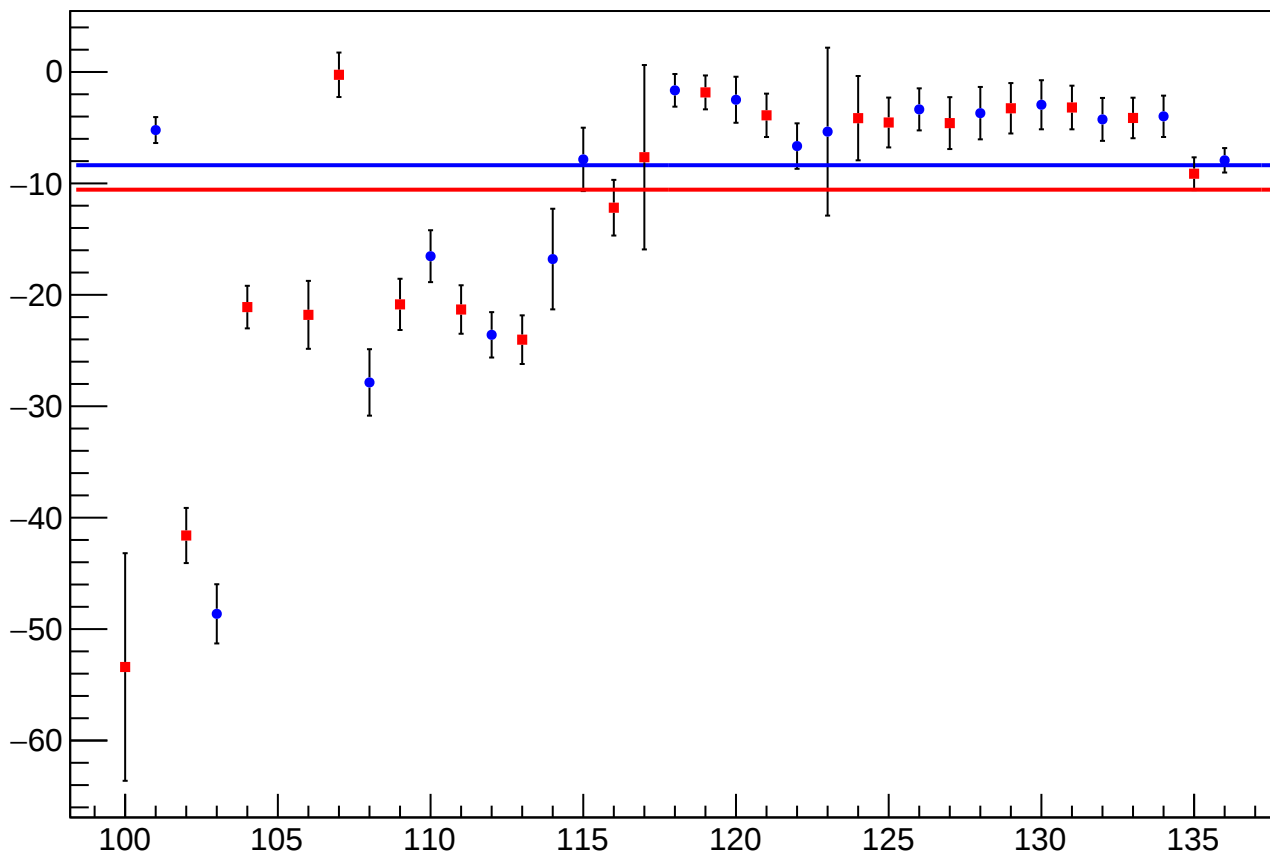
Right Out: -60.693+/-0.781  $\chi^2/\text{NDF}$ : 283.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-61.865+/-0.753  $\chi^2/\text{NDF}$ : 168.1/16

-60.693+/-0.781  $\chi^2/\text{NDF}$ : 283.7/18

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -8.367+/-0.466  $\chi^2/\text{NDF}$ : 408.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

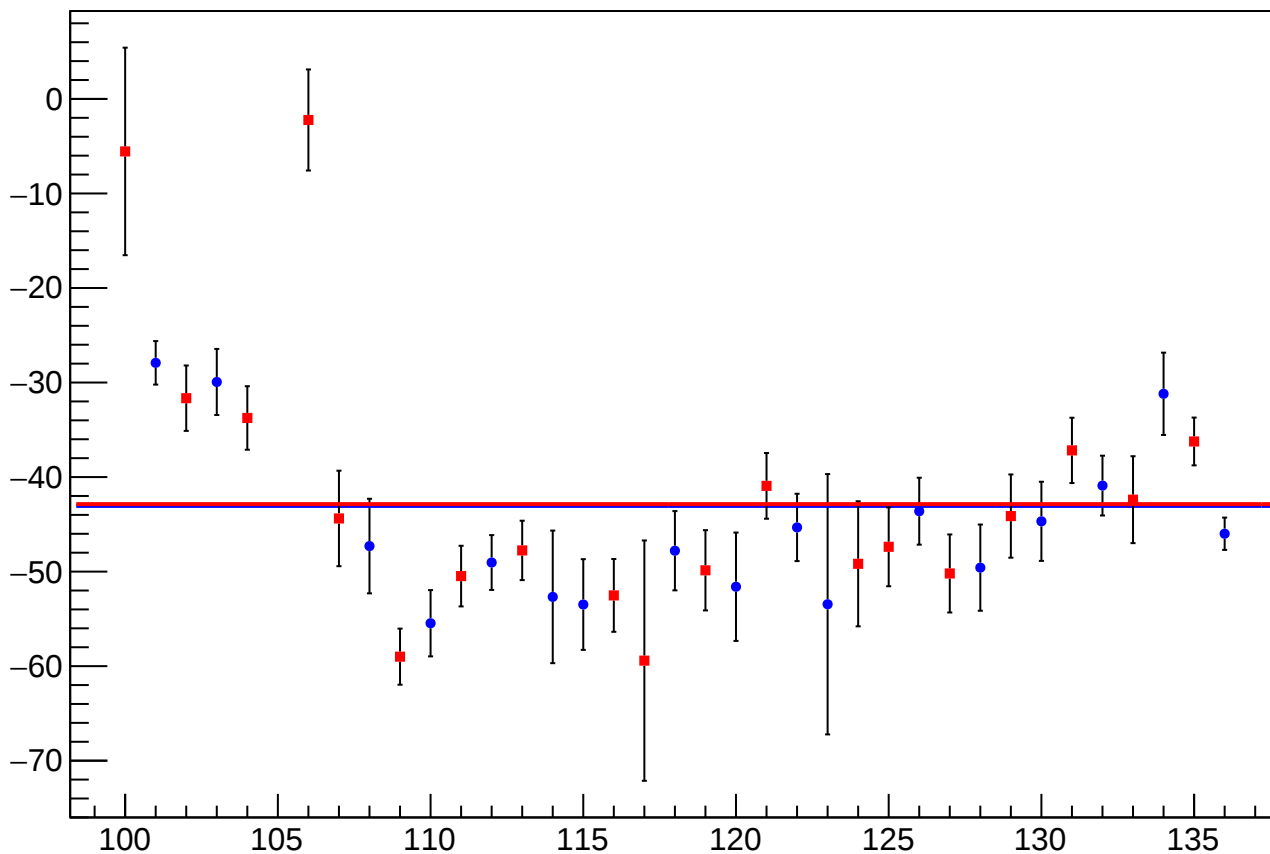
Right Out: -10.562+/-0.502  $\chi^2/\text{NDF}$ : 428.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-8.367+/-0.466  $\chi^2/\text{NDF}$ : 408.8/16

-10.562+/-0.502  $\chi^2/\text{NDF}$ : 428.2/18

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -43.047+/-0.837  $\chi^2/\text{NDF}$ : 99.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

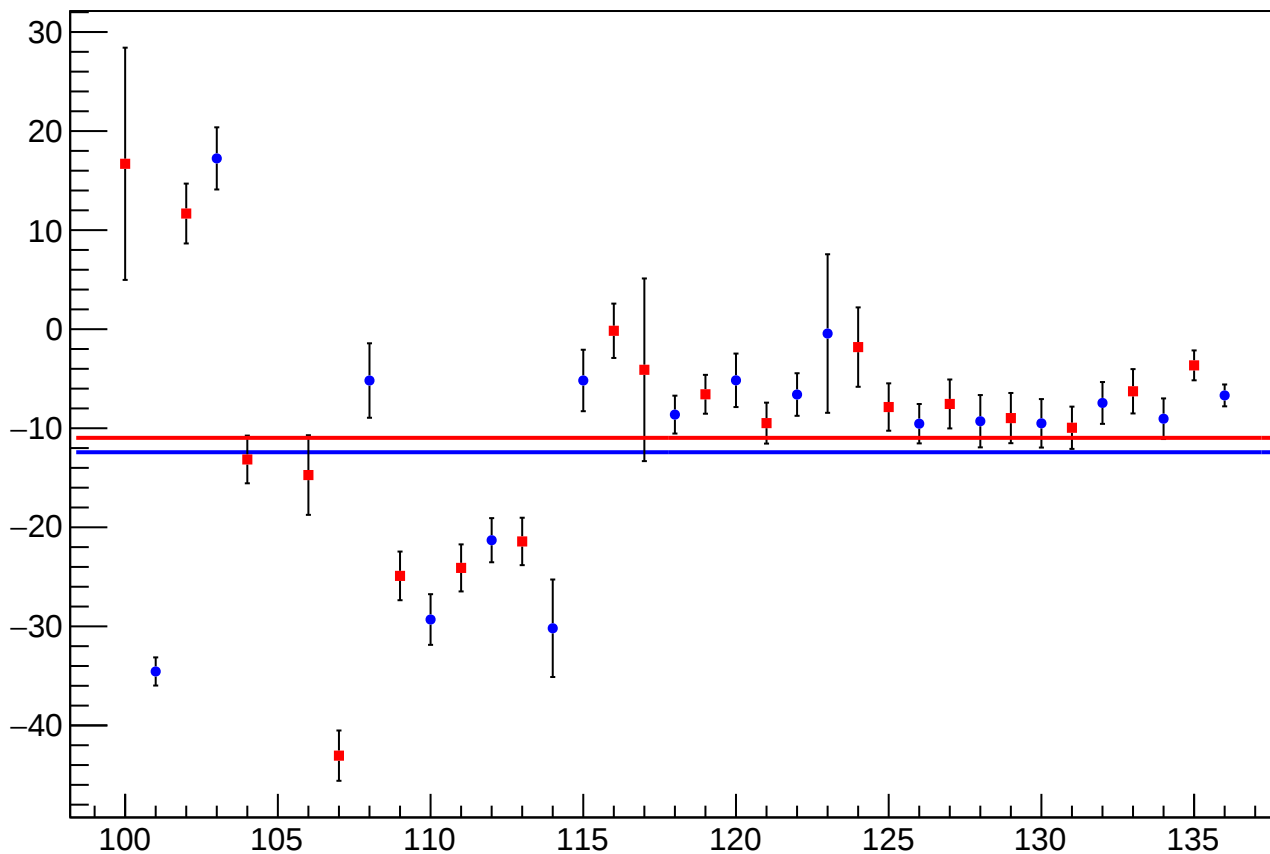
-43.047+/-0.837  $\chi^2/\text{NDF}$ : 99.0/16

Right Out: -42.862+/-0.892  $\chi^2/\text{NDF}$ : 150.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-42.862+/-0.892  $\chi^2/\text{NDF}$ : 150.8/18

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -12.421+/-0.523  $\chi^2/\text{NDF}$ : 474.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

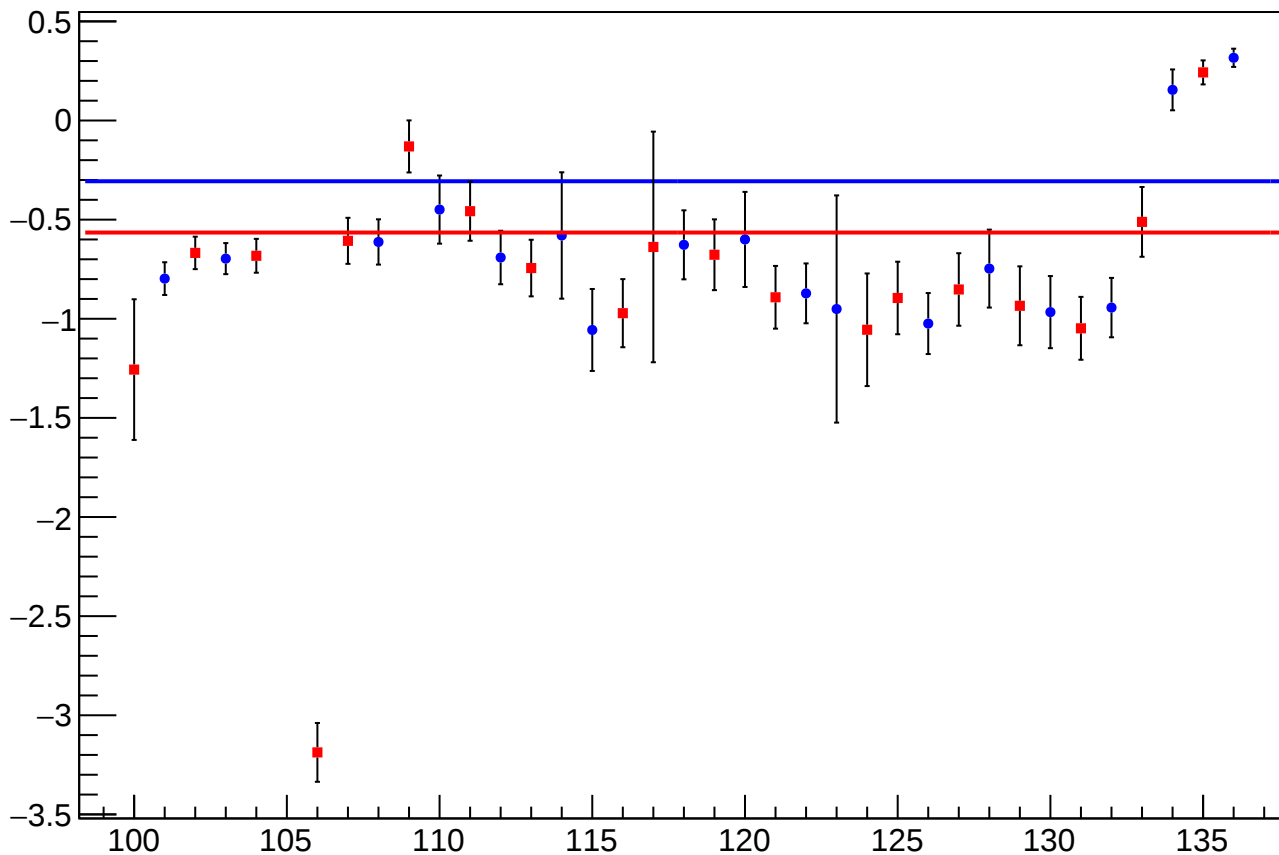
Right Out: -10.969+/-0.570  $\chi^2/\text{NDF}$ : 364.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-12.421+/-0.523  $\chi^2/\text{NDF}$ : 474.4/16

-10.969+/-0.570  $\chi^2/\text{NDF}$ : 364.2/18

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -0.306+/-0.028  $\chi^2/\text{NDF}$ : 371.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

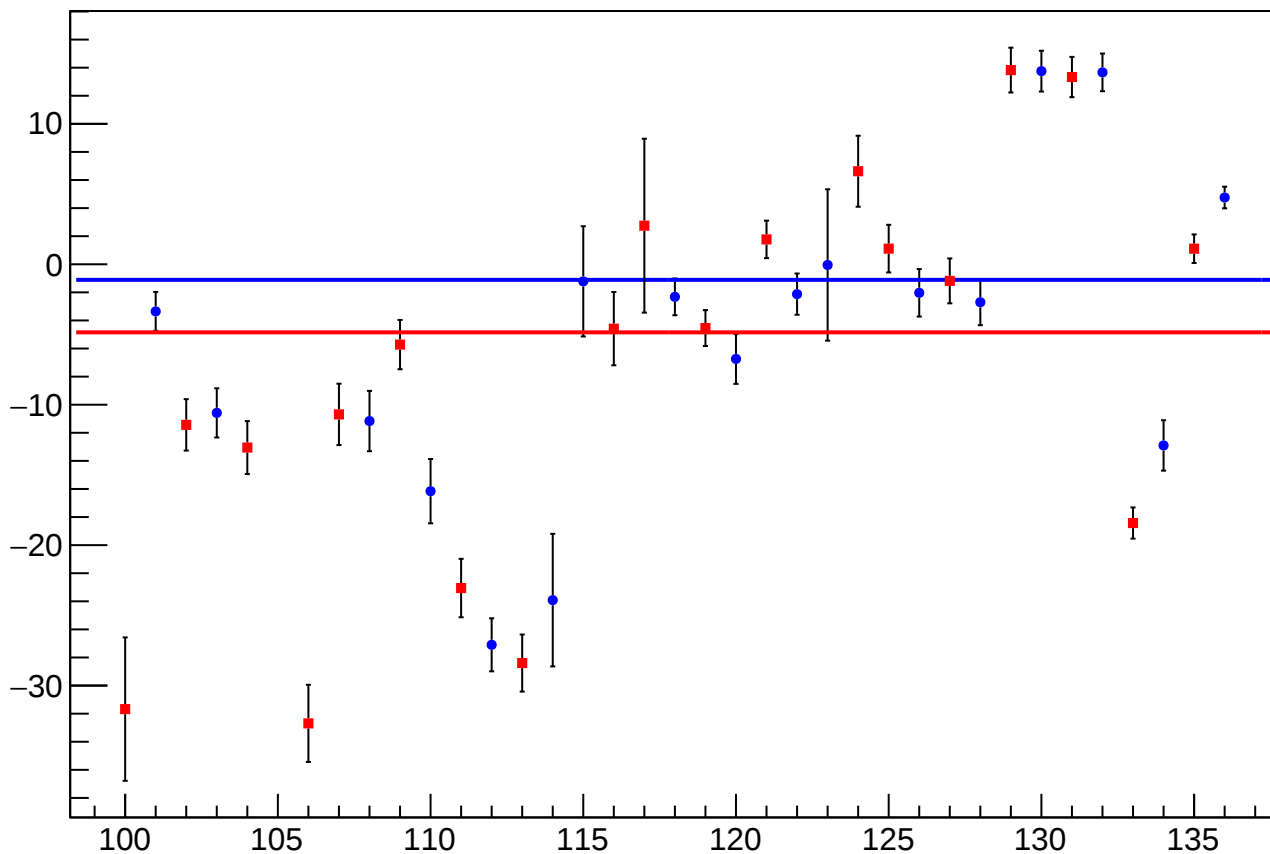
Right Out: -0.565+/-0.030  $\chi^2/\text{NDF}$ : 542.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.306+/-0.028  $\chi^2/\text{NDF}$ : 371.7/16

-0.565+/-0.030  $\chi^2/\text{NDF}$ : 542.3/18

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aX\_slope vs Slug



Right In:  $-1.109 \pm 0.384$   $\chi^2/\text{NDF}$ : 649.8/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

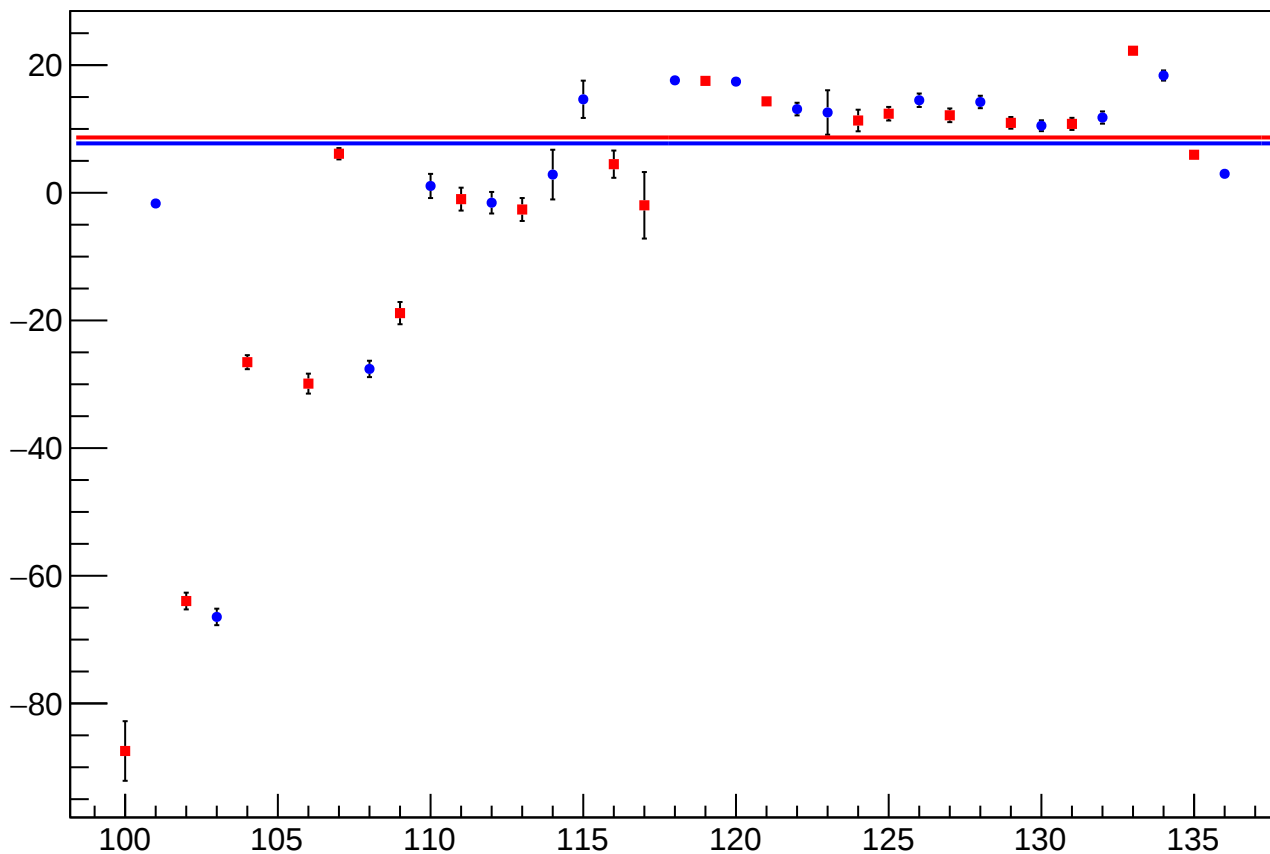
Right Out:  $-4.847 \pm 0.388$   $\chi^2/\text{NDF}$ : 926.1/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-1.109 \pm 0.384$   $\chi^2/\text{NDF}$ : 649.8/16

$-4.847 \pm 0.388$   $\chi^2/\text{NDF}$ : 926.1/18

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 7.737 $\pm$ 0.218  $\chi^2$ /NDF: 5300.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

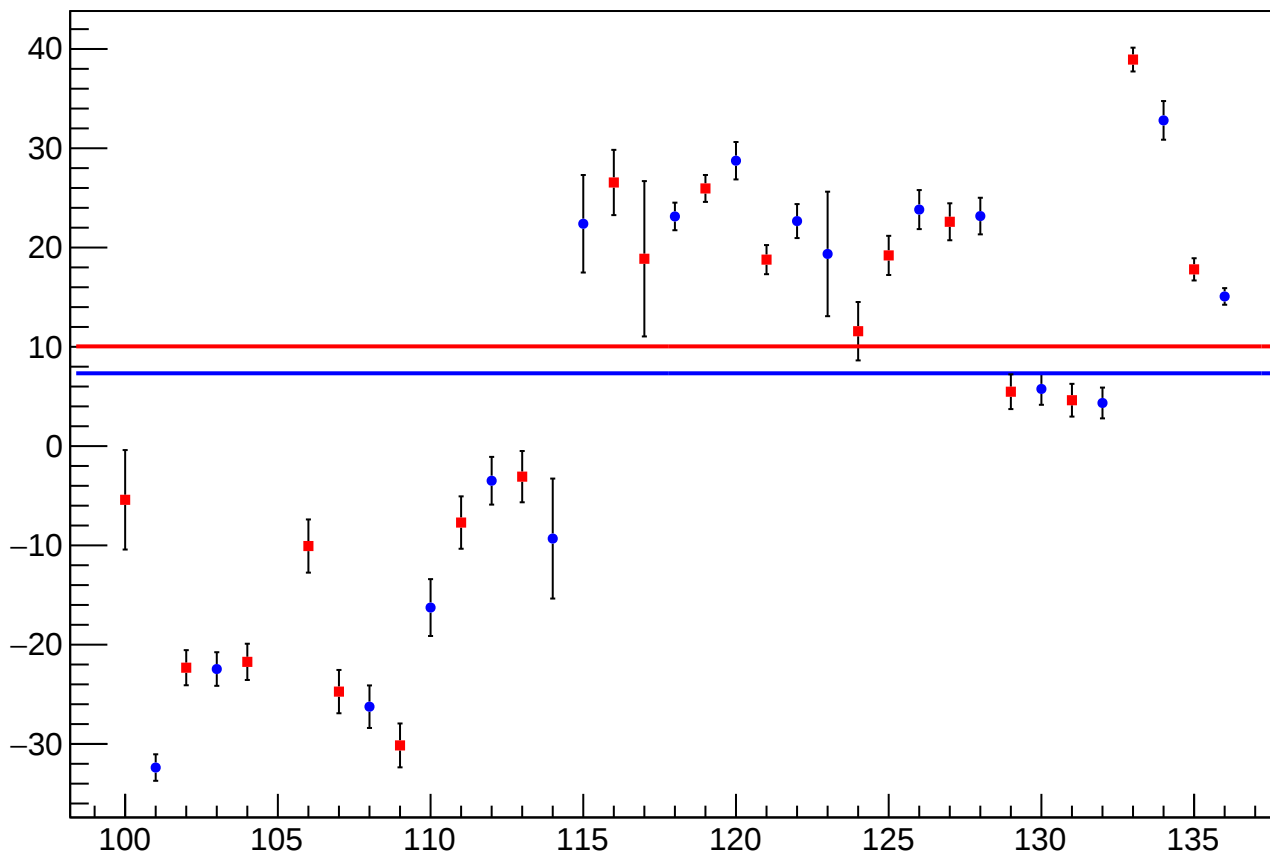
Right Out: 8.666 $\pm$ 0.217  $\chi^2$ /NDF: 6705.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7.737 $\pm$ 0.218  $\chi^2$ /NDF: 5300.6/16

8.666 $\pm$ 0.217  $\chi^2$ /NDF: 6705.2/18

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 7.333+/-0.419  $\chi^2/\text{NDF}$ : 2293.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

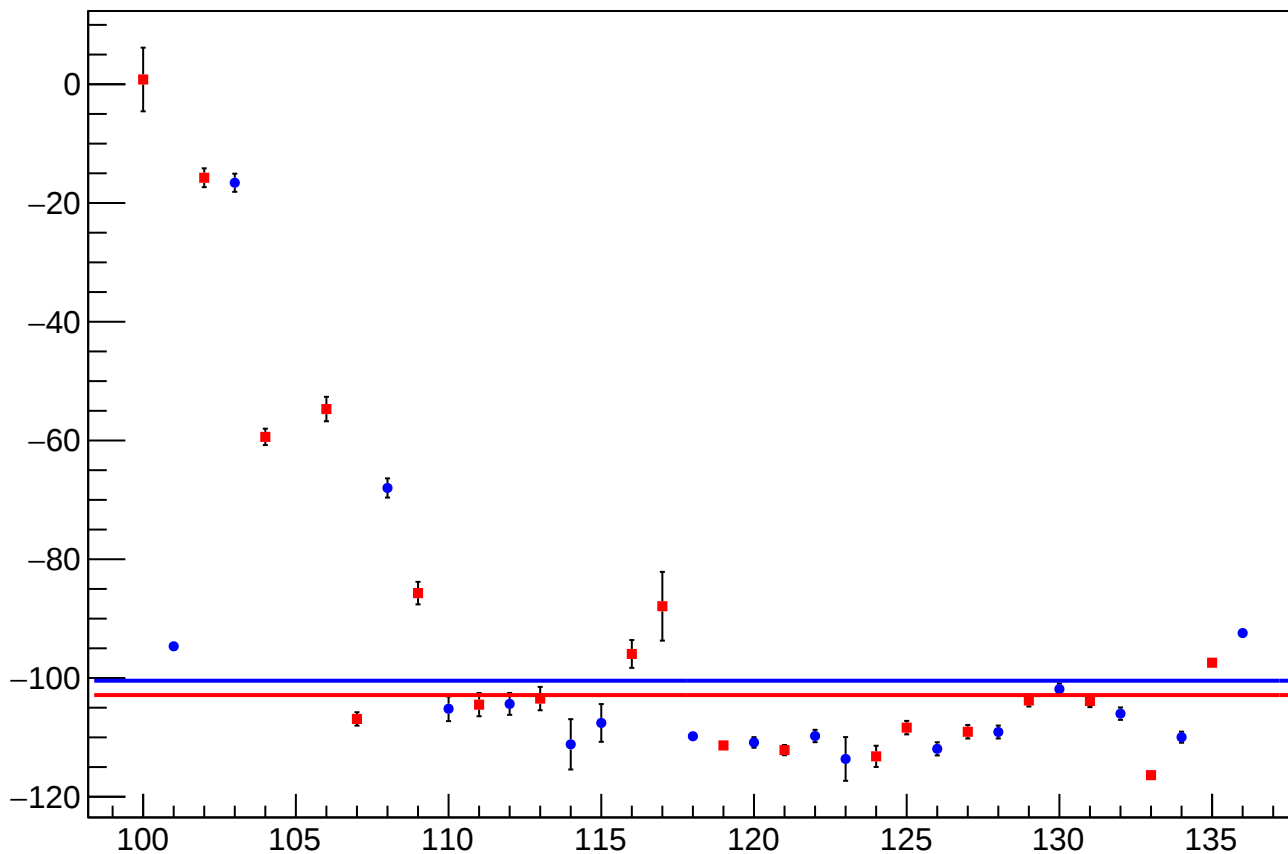
Right Out: 10.044+/-0.427  $\chi^2/\text{NDF}$ : 2273.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7.333+/-0.419  $\chi^2/\text{NDF}$ : 2293.1/16

10.044+/-0.427  $\chi^2/\text{NDF}$ : 2273.3/18

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-100.457 \pm 0.251$   $\chi^2/\text{NDF}$ : 4461.1/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

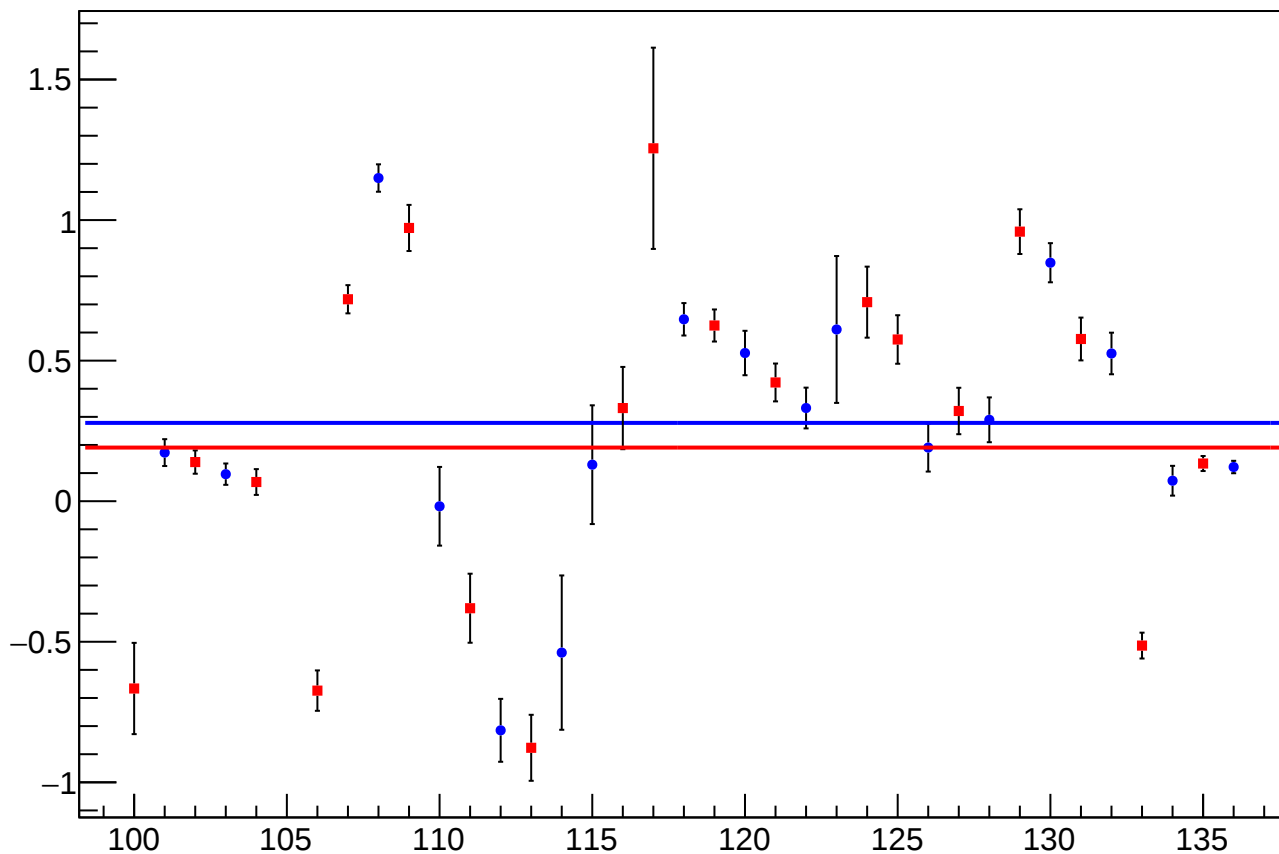
Right Out:  $-102.878 \pm 0.252$   $\chi^2/\text{NDF}$ : 6019.9/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-100.457 \pm 0.251$   $\chi^2/\text{NDF}$ : 4461.1/16

$-102.878 \pm 0.252$   $\chi^2/\text{NDF}$ : 6019.9/18

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.279+/-0.014  $\chi^2/\text{NDF}$ : 653.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

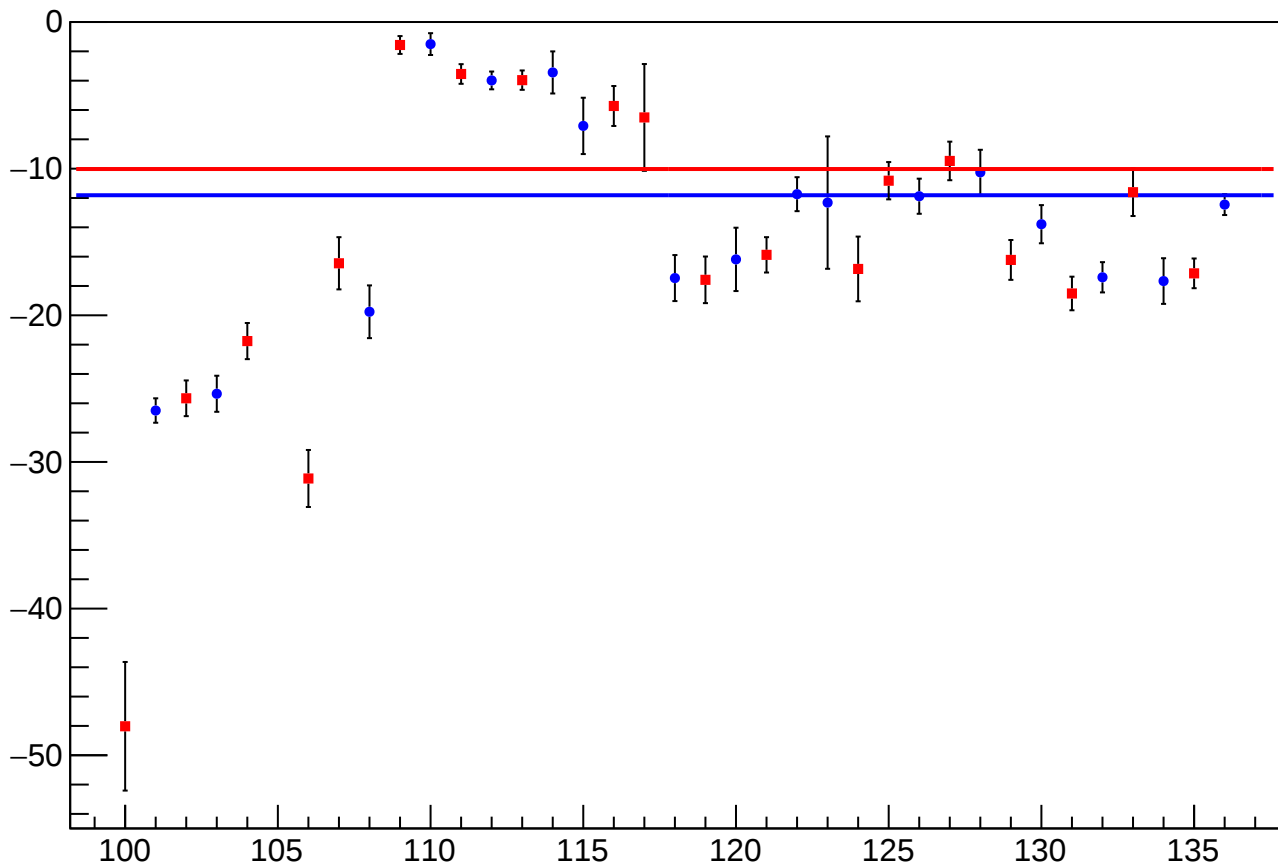
Right Out: 0.191+/-0.014  $\chi^2/\text{NDF}$ : 963.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.279+/-0.014  $\chi^2/\text{NDF}$ : 653.9/16

0.191+/-0.014  $\chi^2/\text{NDF}$ : 963.9/18

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -11.812 $\pm$ 0.266  $\chi^2$ /NDF: 914.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

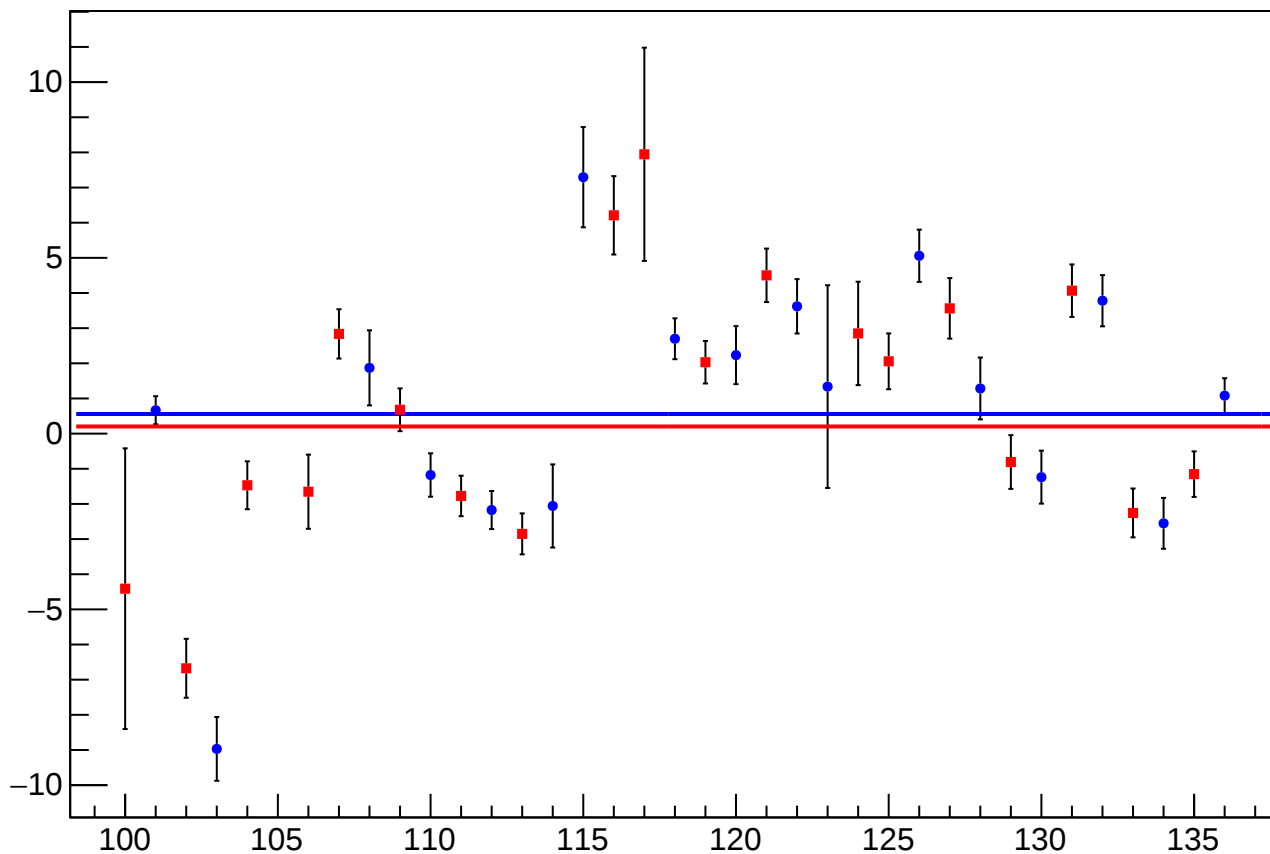
Right Out: -10.025 $\pm$ 0.259  $\chi^2$ /NDF: 1025.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

-11.812 $\pm$ 0.266  $\chi^2$ /NDF: 914.6/16

-10.025 $\pm$ 0.259  $\chi^2$ /NDF: 1025.6/18

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.558+/-0.170  $\chi^2/\text{NDF}$ : 287.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

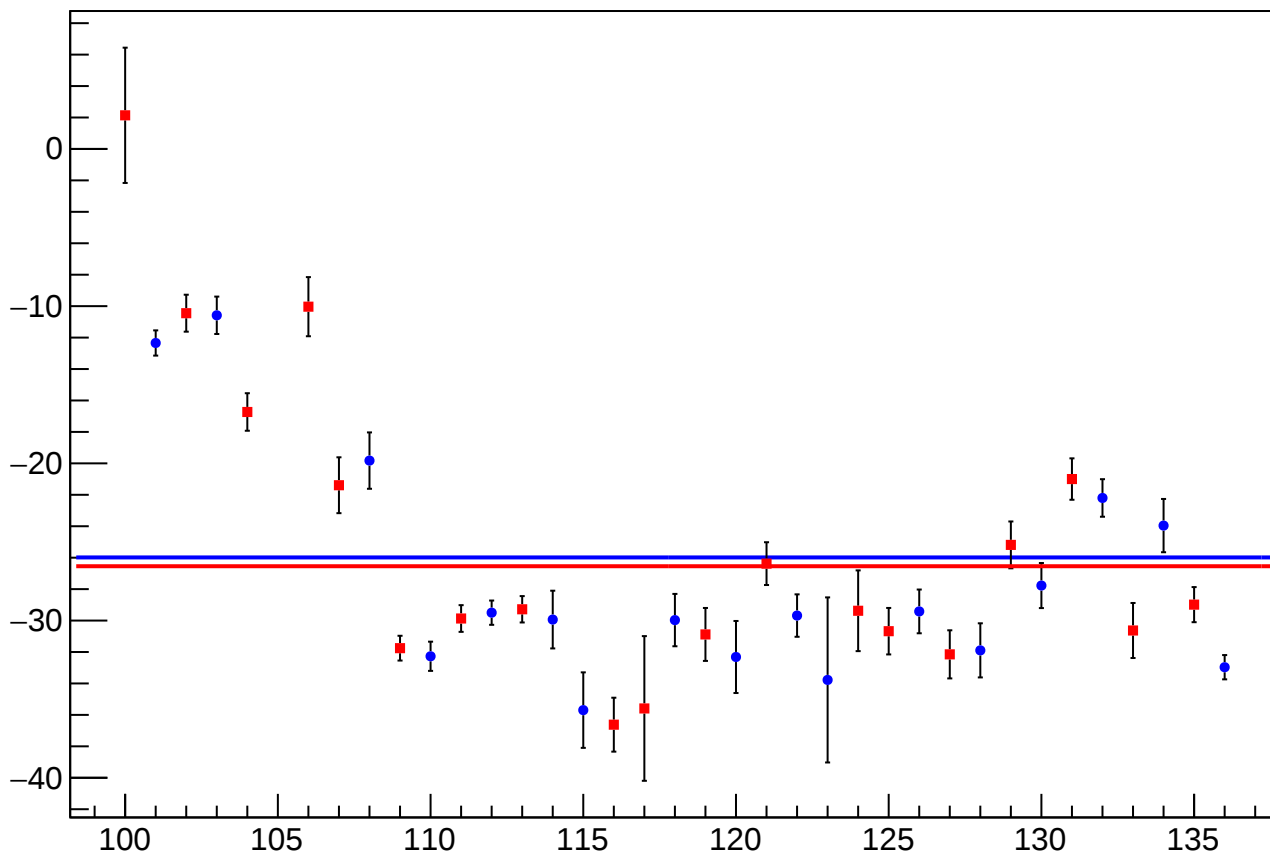
Right Out: 0.203+/-0.177  $\chi^2/\text{NDF}$ : 277.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.558+/-0.170  $\chi^2/\text{NDF}$ : 287.9/16

0.203+/-0.177  $\chi^2/\text{NDF}$ : 277.7/18

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -25.984 $\pm$ 0.300  $\chi^2$ /NDF: 691.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

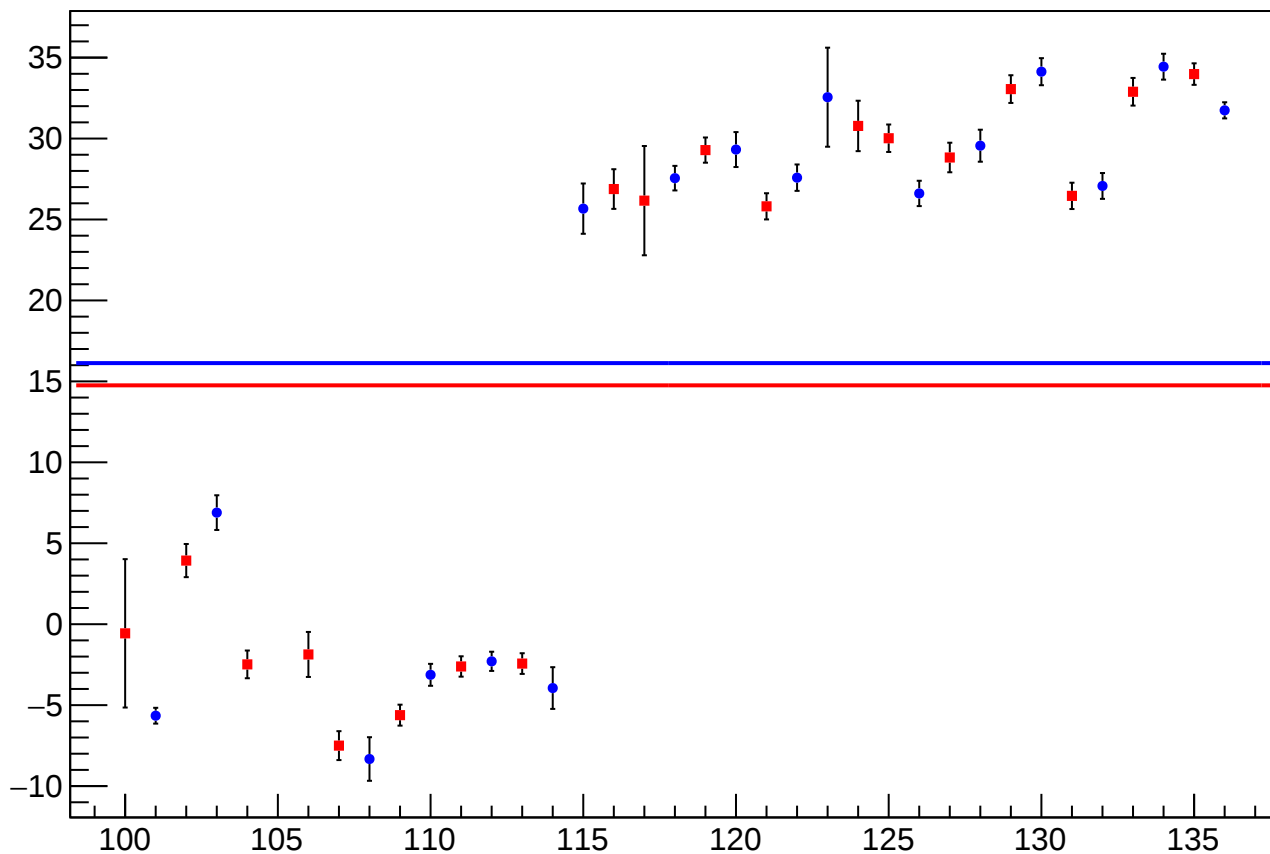
Right Out: -26.544 $\pm$ 0.302  $\chi^2$ /NDF: 551.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-25.984 $\pm$ 0.300  $\chi^2$ /NDF: 691.5/16

-26.544 $\pm$ 0.302  $\chi^2$ /NDF: 551.0/18

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 16.129+/-0.192  $\chi^2/\text{NDF}$ : 7572.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

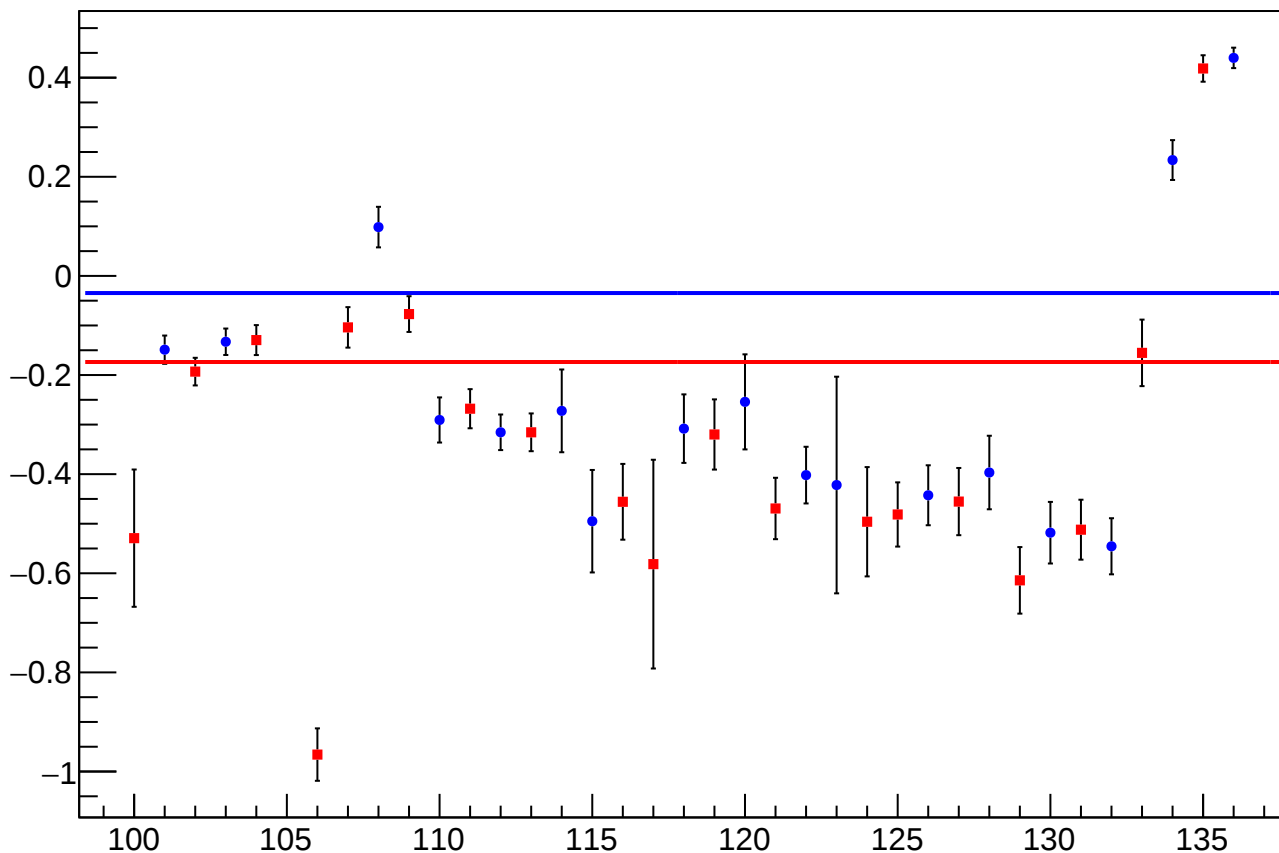
Right Out: 14.755+/-0.200  $\chi^2/\text{NDF}$ : 7033.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

16.129+/-0.192  $\chi^2/\text{NDF}$ : 7572.5/16

14.755+/-0.200  $\chi^2/\text{NDF}$ : 7033.4/18

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.035+/-0.010  $\chi^2$ /NDF: 1011.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

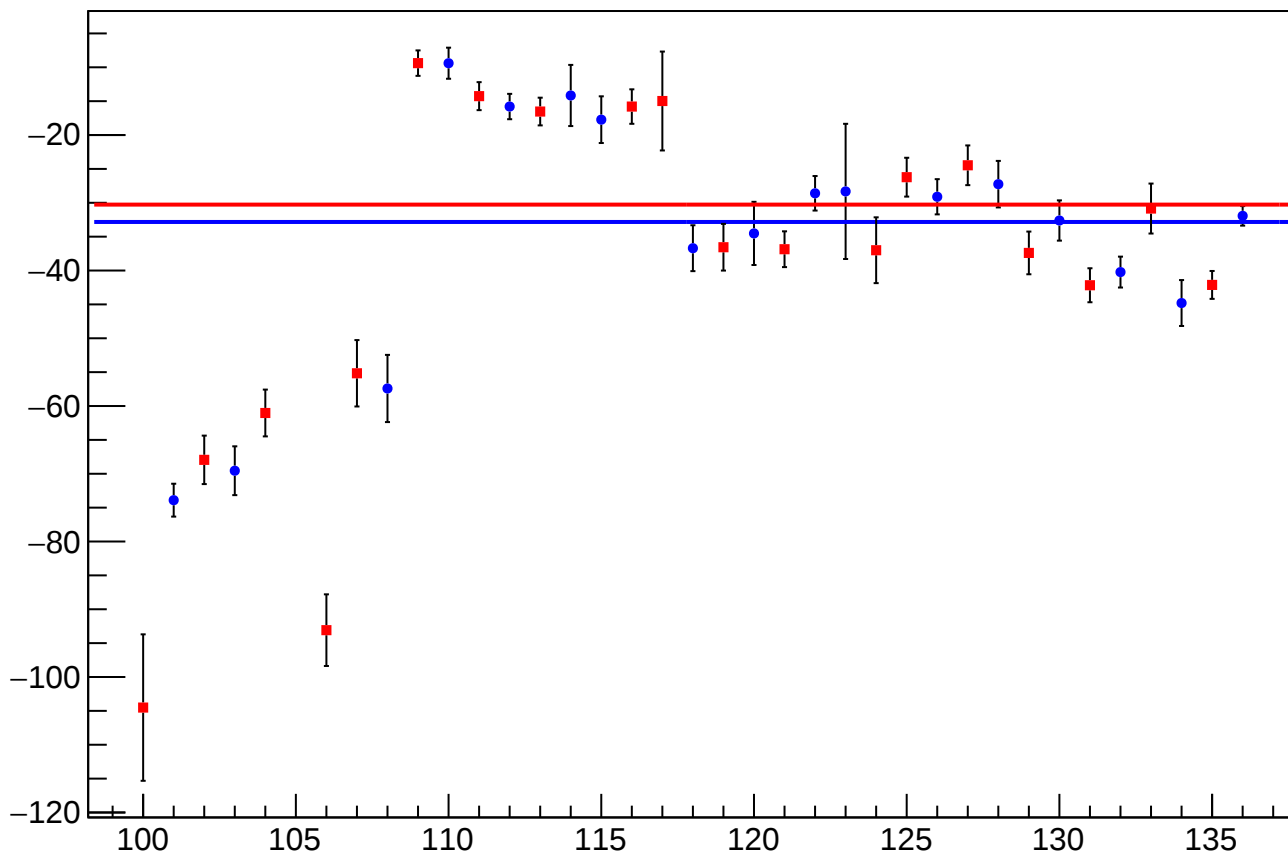
Right Out: -0.174+/-0.011  $\chi^2$ /NDF: 922.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.035+/-0.010  $\chi^2$ /NDF: 1011.6/16

-0.174+/-0.011  $\chi^2$ /NDF: 922.4/18

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -32.831 $\pm$ 0.659  $\chi^2$ /NDF: 670.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

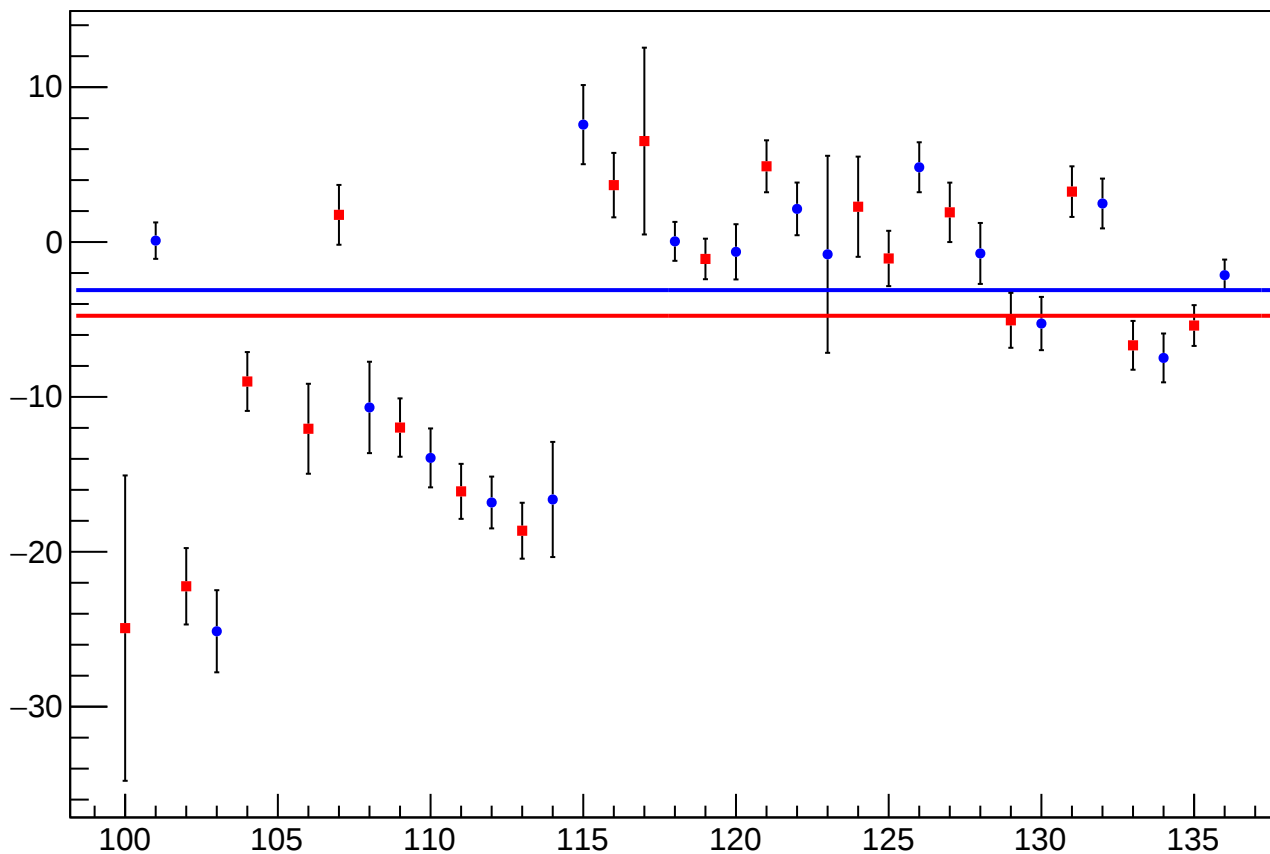
Right Out: -30.269 $\pm$ 0.666  $\chi^2$ /NDF: 748.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-32.831 $\pm$ 0.659  $\chi^2$ /NDF: 670.8/16

-30.269 $\pm$ 0.666  $\chi^2$ /NDF: 748.1/18

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -3.104+/-0.411  $\chi^2/\text{NDF}$ : 279.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

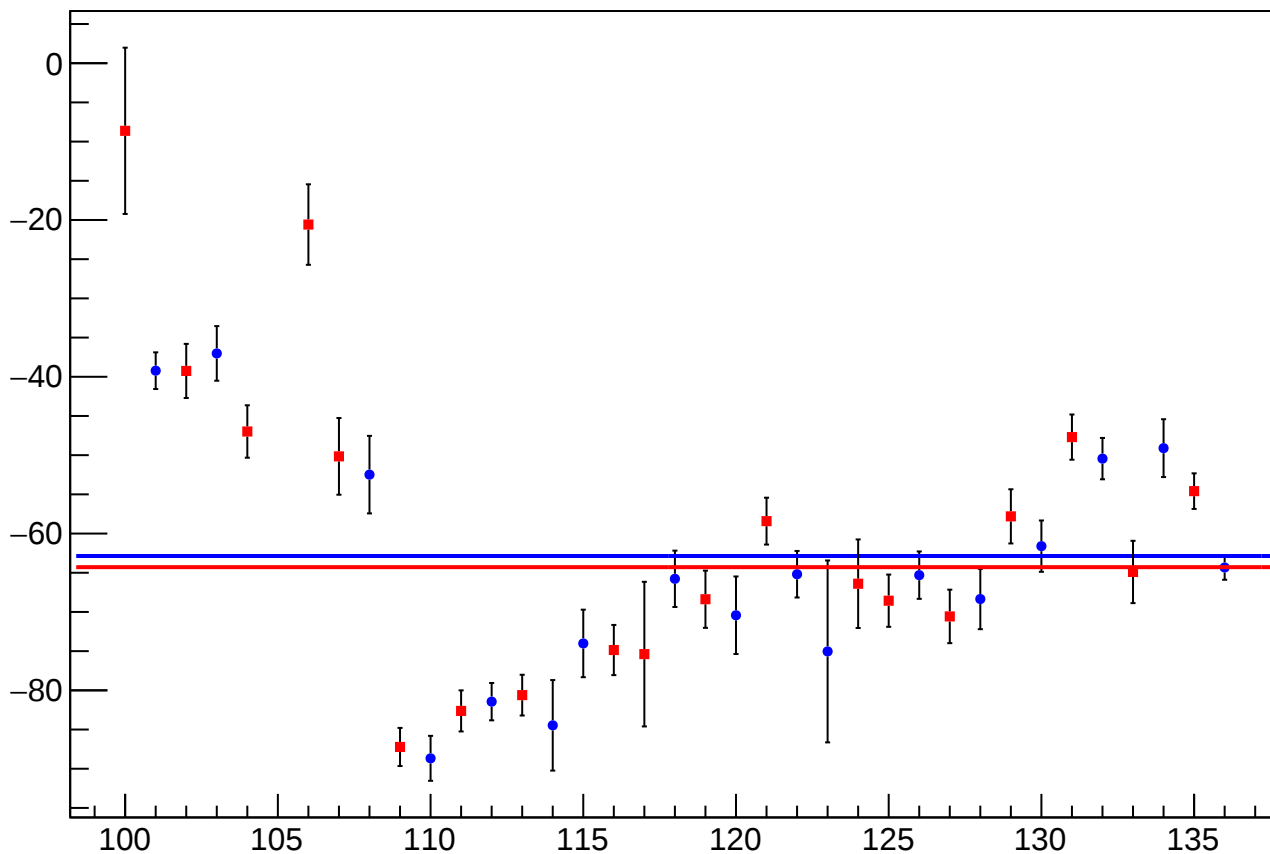
Right Out: -4.761+/-0.435  $\chi^2/\text{NDF}$ : 299.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.104+/-0.411  $\chi^2/\text{NDF}$ : 279.1/16

-4.761+/-0.435  $\chi^2/\text{NDF}$ : 299.4/18

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -62.863+/-0.741  $\chi^2/\text{NDF}$ : 368.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

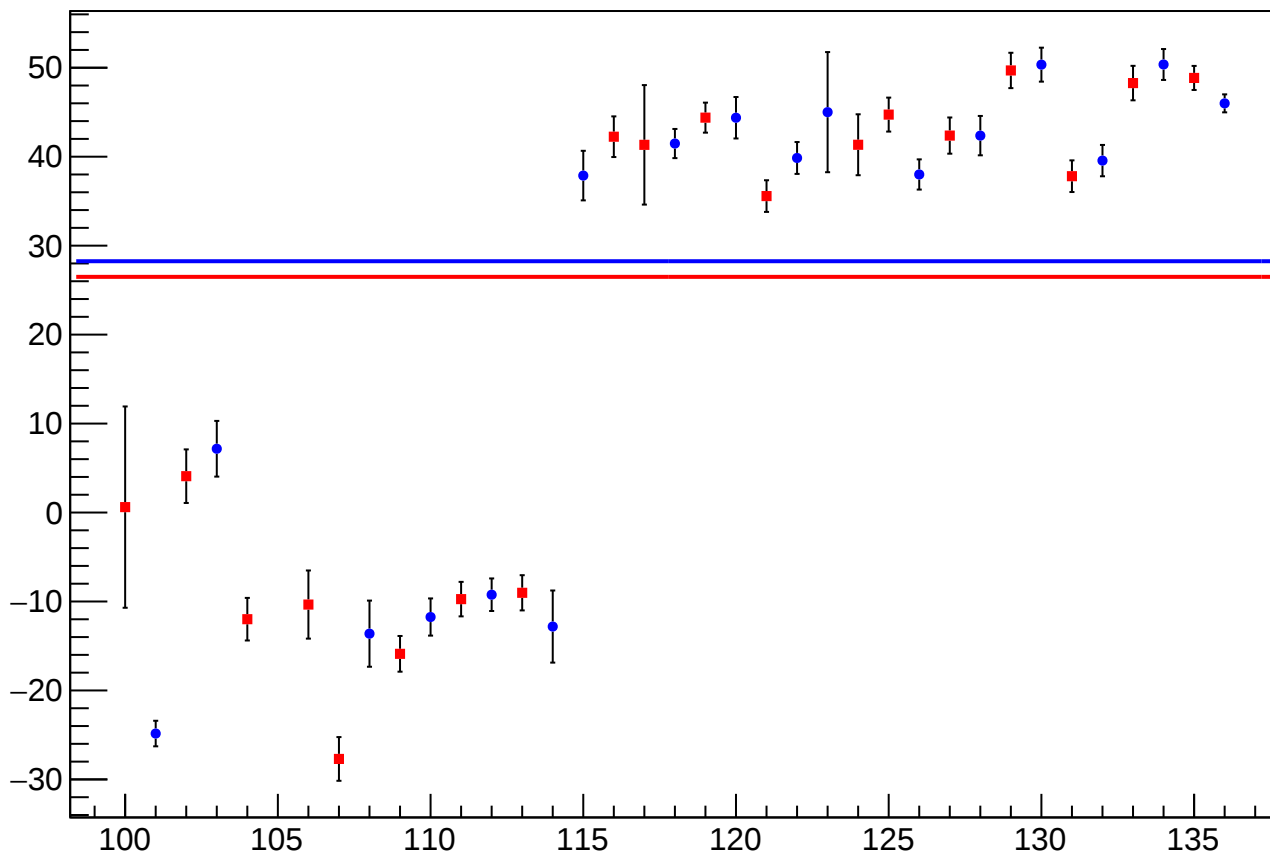
Right Out: -64.287+/-0.769  $\chi^2/\text{NDF}$ : 442.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-62.863+/-0.741  $\chi^2/\text{NDF}$ : 368.7/16

-64.287+/-0.769  $\chi^2/\text{NDF}$ : 442.6/18

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 28.250 $\pm$ 0.460  $\chi^2$ /NDF: 3319.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

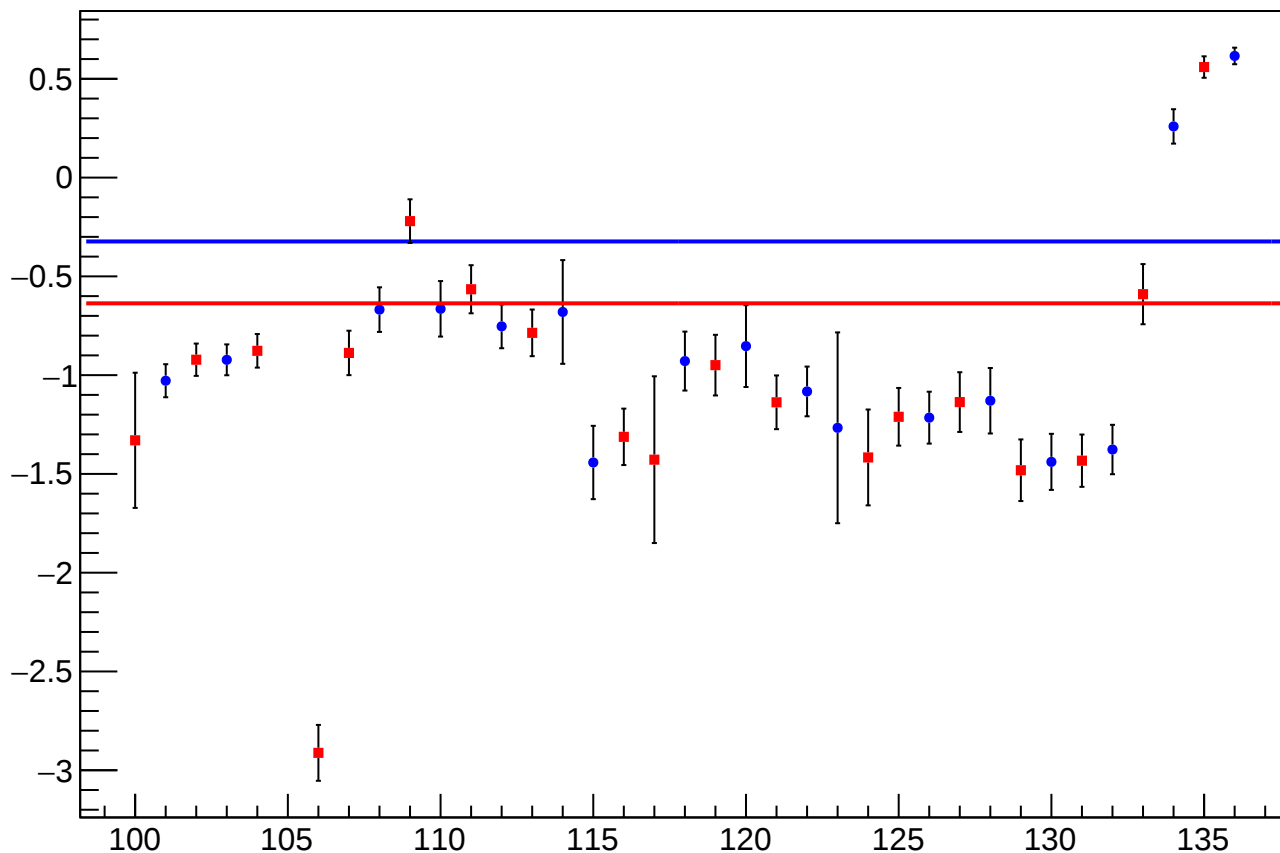
Right Out: 26.493 $\pm$ 0.490  $\chi^2$ /NDF: 2953.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

28.250 $\pm$ 0.460  $\chi^2$ /NDF: 3319.5/16

26.493 $\pm$ 0.490  $\chi^2$ /NDF: 2953.3/18

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.323 \pm 0.025$   $\chi^2/\text{NDF}$ : 1010.8/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

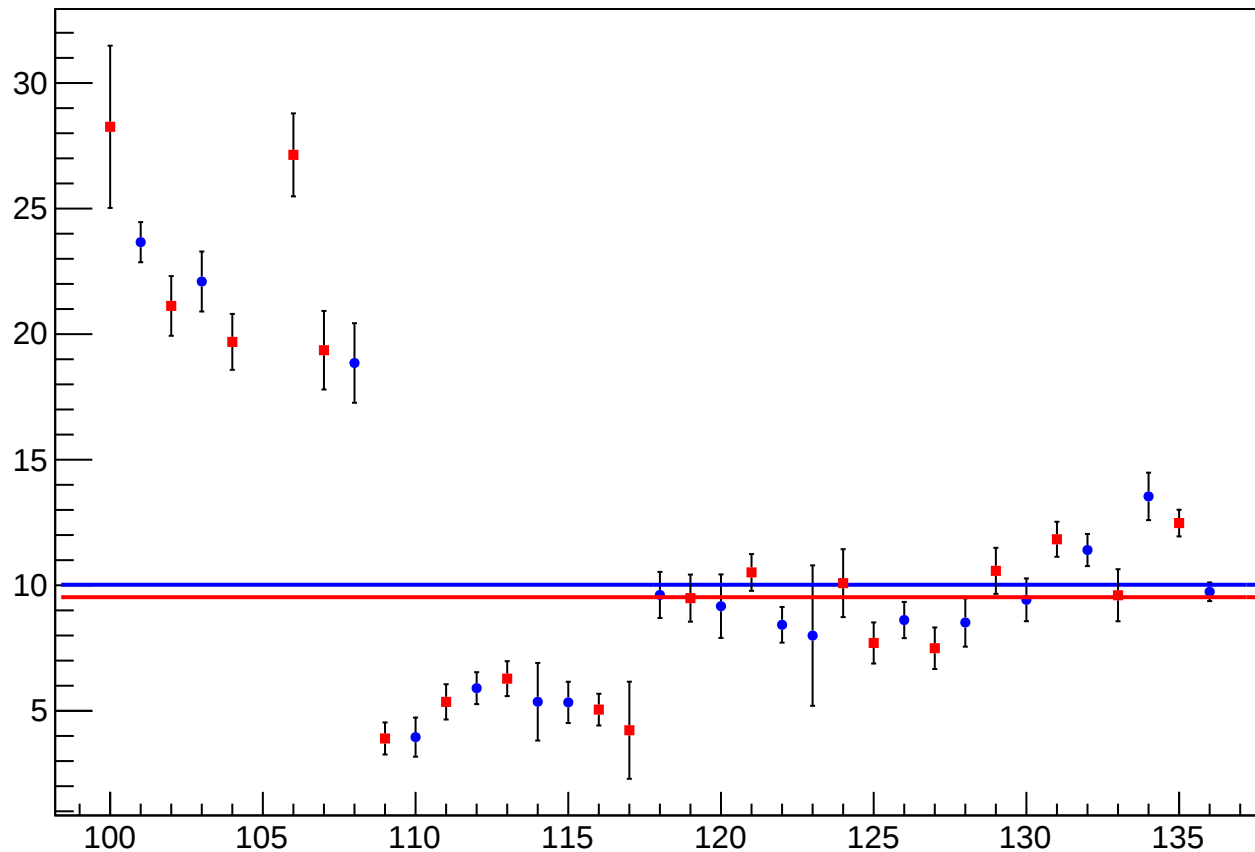
Right Out:  $-0.637 \pm 0.027$   $\chi^2/\text{NDF}$ : 935.1/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.323 \pm 0.025$   $\chi^2/\text{NDF}$ : 1010.8/16

$-0.637 \pm 0.027$   $\chi^2/\text{NDF}$ : 935.1/18

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: 10.021+/-0.190  $\chi^2$ /NDF: 600.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

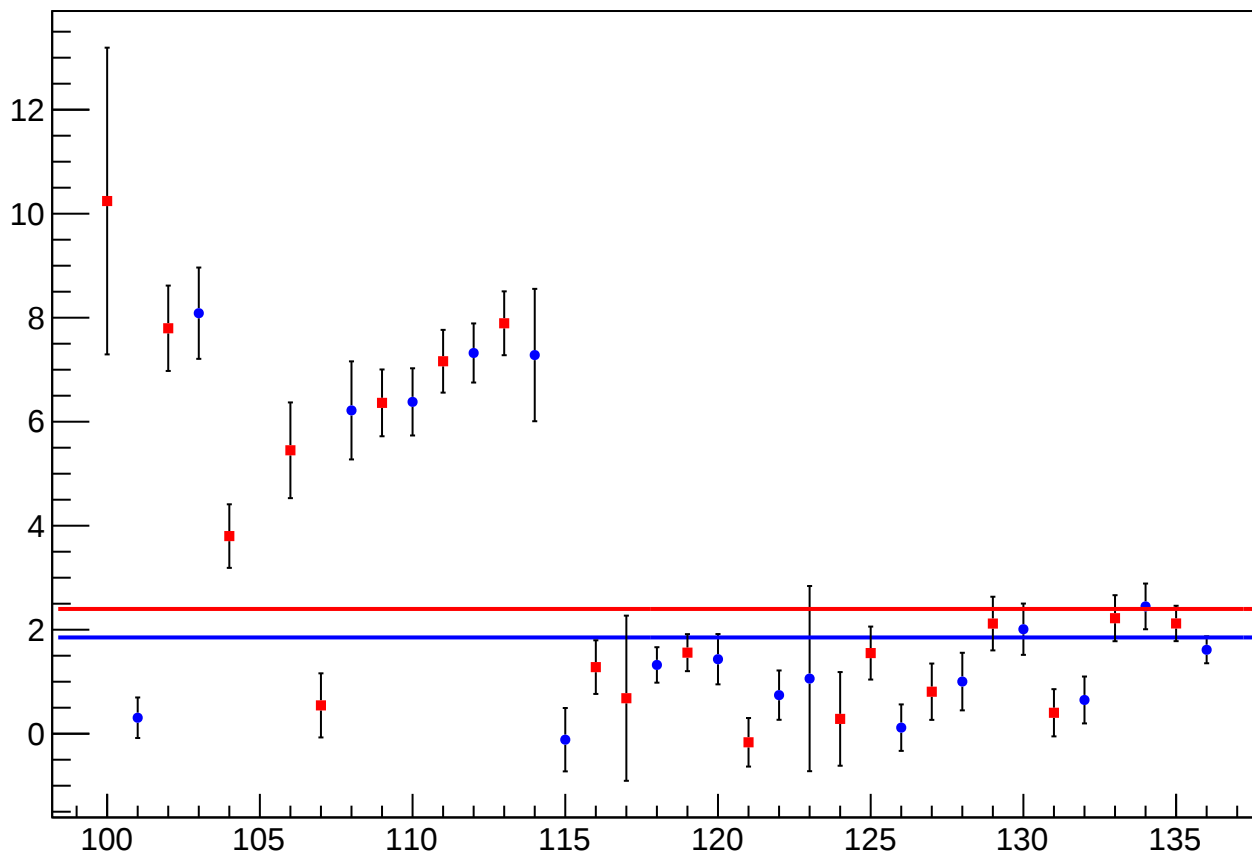
Right Out: 9.526+/-0.196  $\chi^2$ /NDF: 613.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

10.021+/-0.190  $\chi^2$ /NDF: 600.6/16

9.526+/-0.196  $\chi^2$ /NDF: 613.9/18

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 1.851+/-0.117  $\chi^2/\text{NDF}$ : 294.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

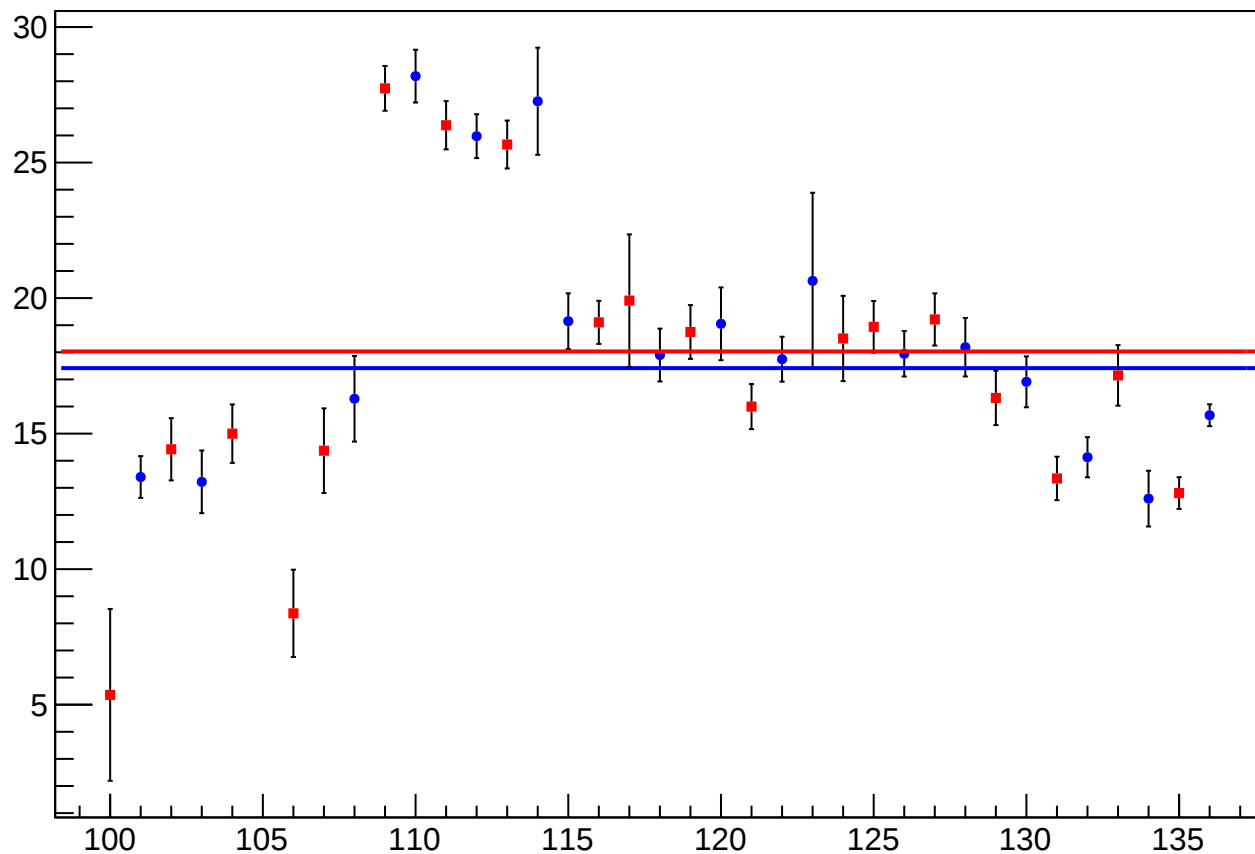
Right Out: 2.399+/-0.126  $\chi^2/\text{NDF}$ : 335.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.851+/-0.117  $\chi^2/\text{NDF}$ : 294.2/16

2.399+/-0.126  $\chi^2/\text{NDF}$ : 335.1/18

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.417+/-0.213  $\chi^2$ /NDF: 367.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

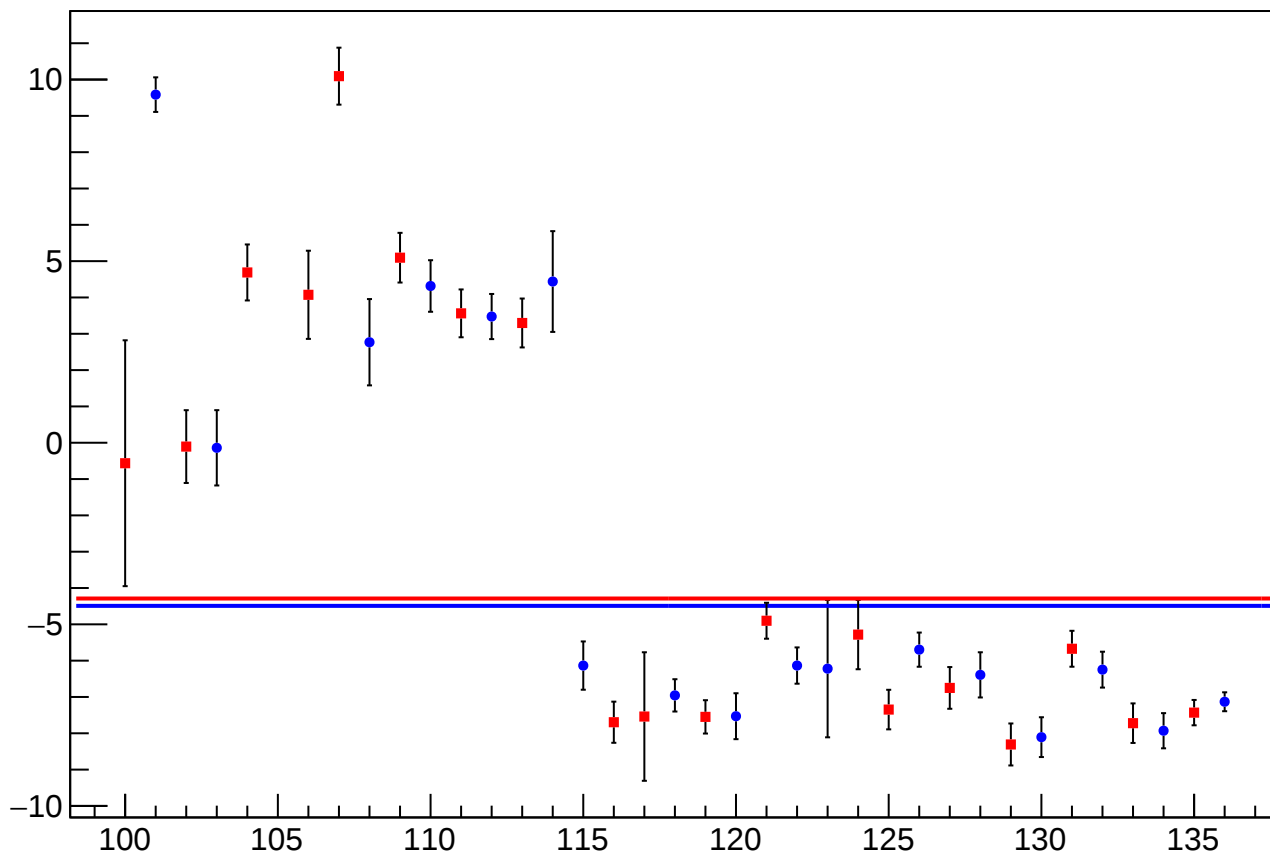
Right Out: 18.031+/-0.226  $\chi^2$ /NDF: 504.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

17.417+/-0.213  $\chi^2$ /NDF: 367.0/16

18.031+/-0.226  $\chi^2$ /NDF: 504.6/18

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -4.491+/-0.130  $\chi^2/\text{NDF}$ : 1585.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

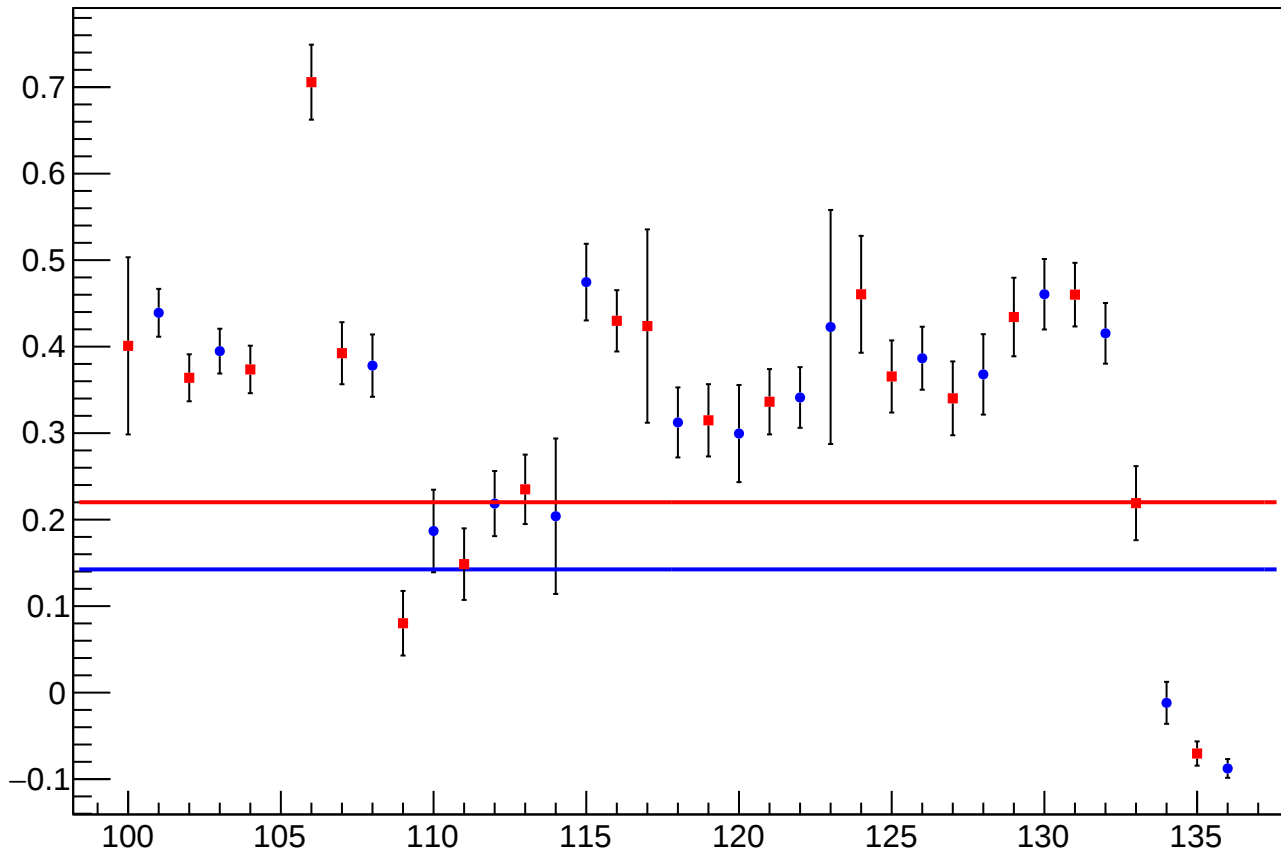
Right Out: -4.289+/-0.141  $\chi^2/\text{NDF}$ : 1314.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.491+/-0.130  $\chi^2/\text{NDF}$ : 1585.4/16

-4.289+/-0.141  $\chi^2/\text{NDF}$ : 1314.5/18

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.142 $\pm$ 0.007  $\chi^2$ /NDF: 1058.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

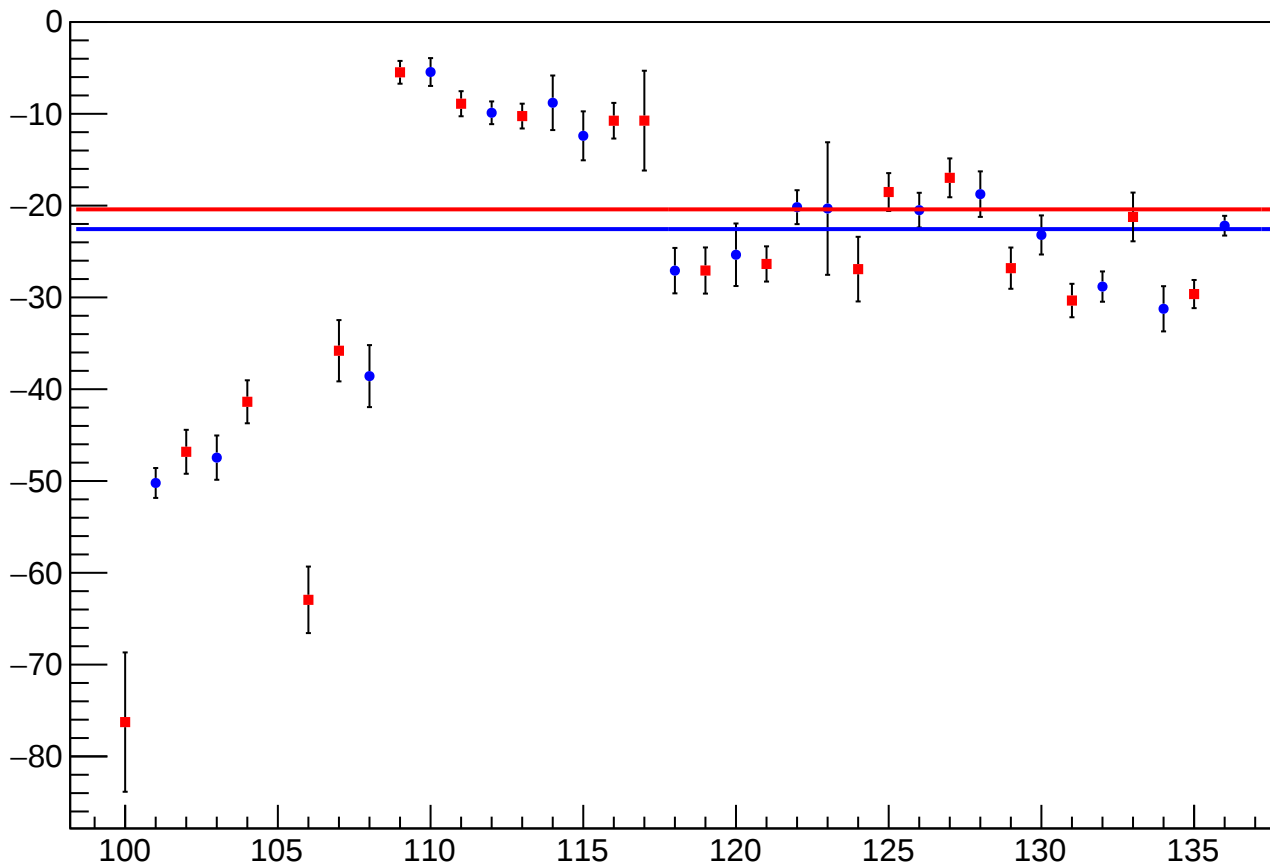
Right Out: 0.220 $\pm$ 0.008  $\chi^2$ /NDF: 807.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.142 $\pm$ 0.007  $\chi^2$ /NDF: 1058.8/16

0.220 $\pm$ 0.008  $\chi^2$ /NDF: 807.7/18

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -22.559+/-0.466  $\chi^2/\text{NDF}$ : 721.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

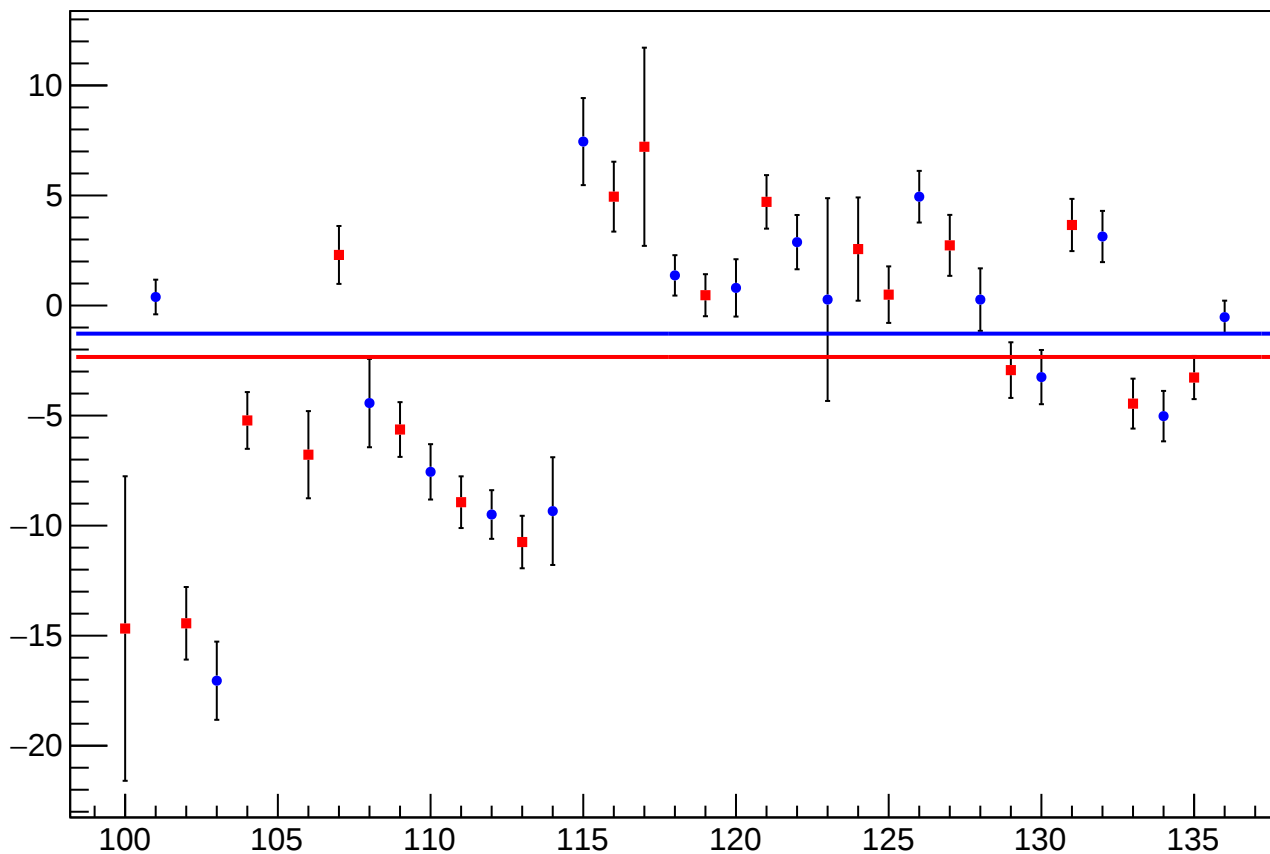
-22.559+/-0.466  $\chi^2/\text{NDF}$ : 721.7/16

Right Out: -20.409+/-0.466  $\chi^2/\text{NDF}$ : 812.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-20.409+/-0.466  $\chi^2/\text{NDF}$ : 812.9/18

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -1.278+/-0.292  $\chi^2/\text{NDF}$ : 276.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

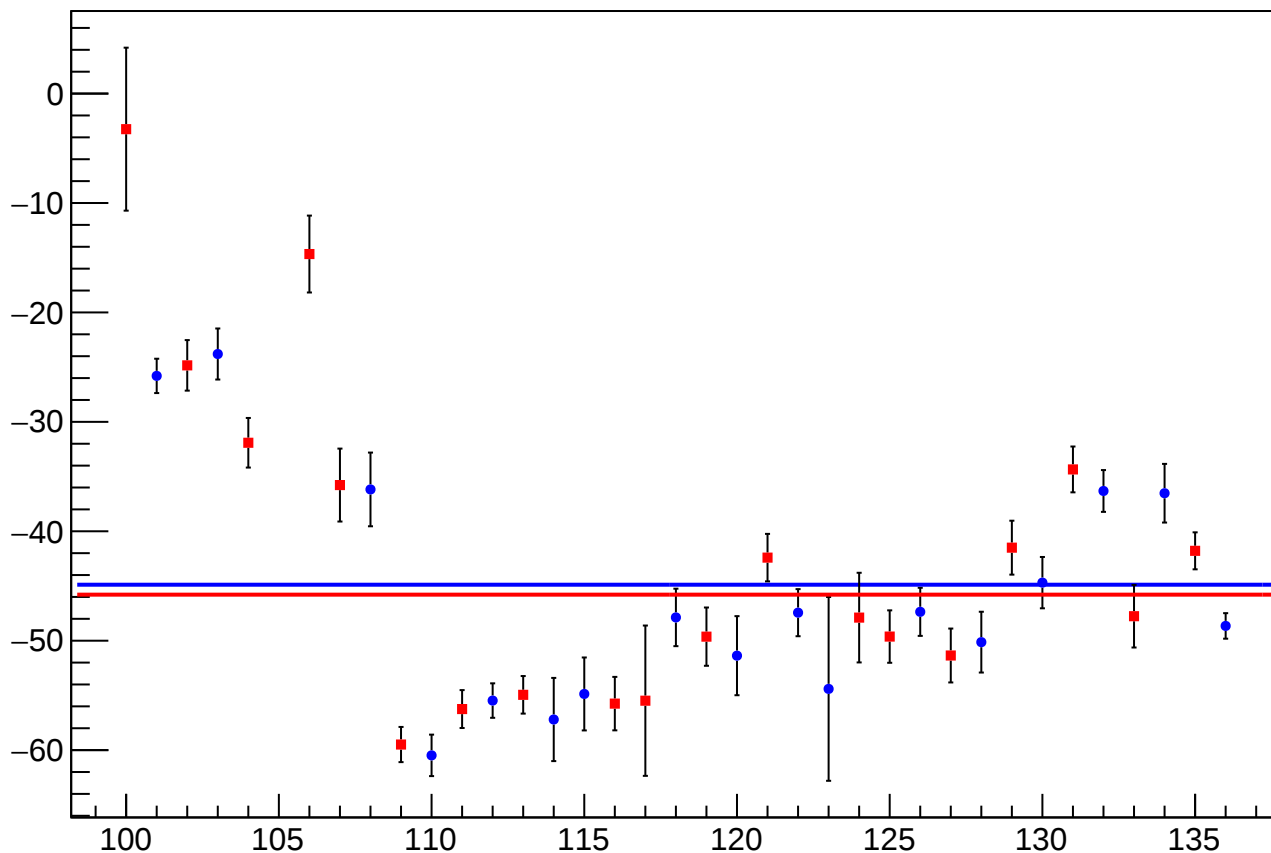
Right Out: -2.337+/-0.307  $\chi^2/\text{NDF}$ : 288.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.278+/-0.292  $\chi^2/\text{NDF}$ : 276.5/16

-2.337+/-0.307  $\chi^2/\text{NDF}$ : 288.3/18

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -44.883 $\pm$ 0.524  $\chi^2$ /NDF: 421.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

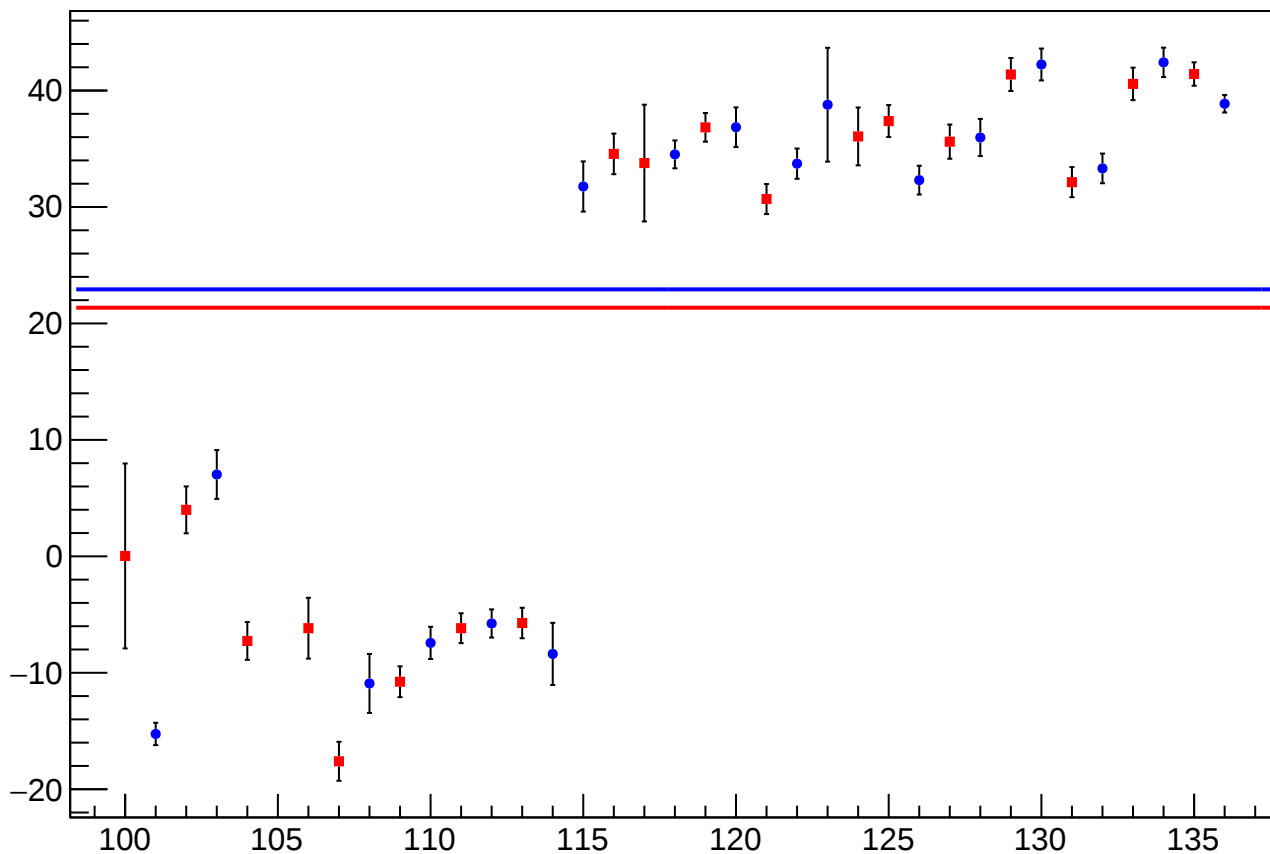
Right Out: -45.792 $\pm$ 0.539  $\chi^2$ /NDF: 447.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-44.883 $\pm$ 0.524  $\chi^2$ /NDF: 421.0/16

-45.792 $\pm$ 0.539  $\chi^2$ /NDF: 447.4/18

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 22.926+/-0.328  $\chi^2$ /NDF: 4330.2/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

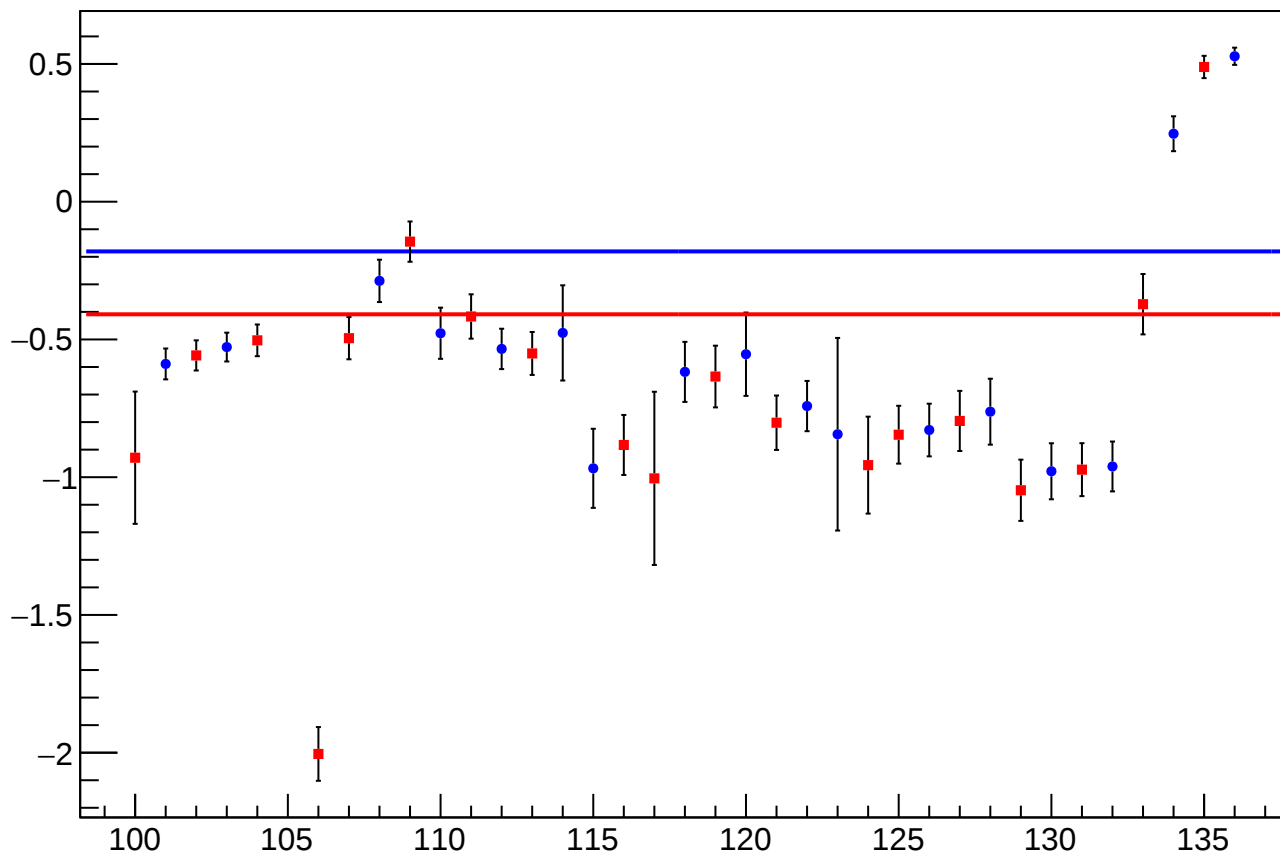
22.926+/-0.328  $\chi^2$ /NDF: 4330.2/16

Right Out: 21.353+/-0.347  $\chi^2$ /NDF: 3918.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

21.353+/-0.347  $\chi^2$ /NDF: 3918.6/18

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.180 \pm 0.018$   $\chi^2/\text{NDF}$ : 995.7/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

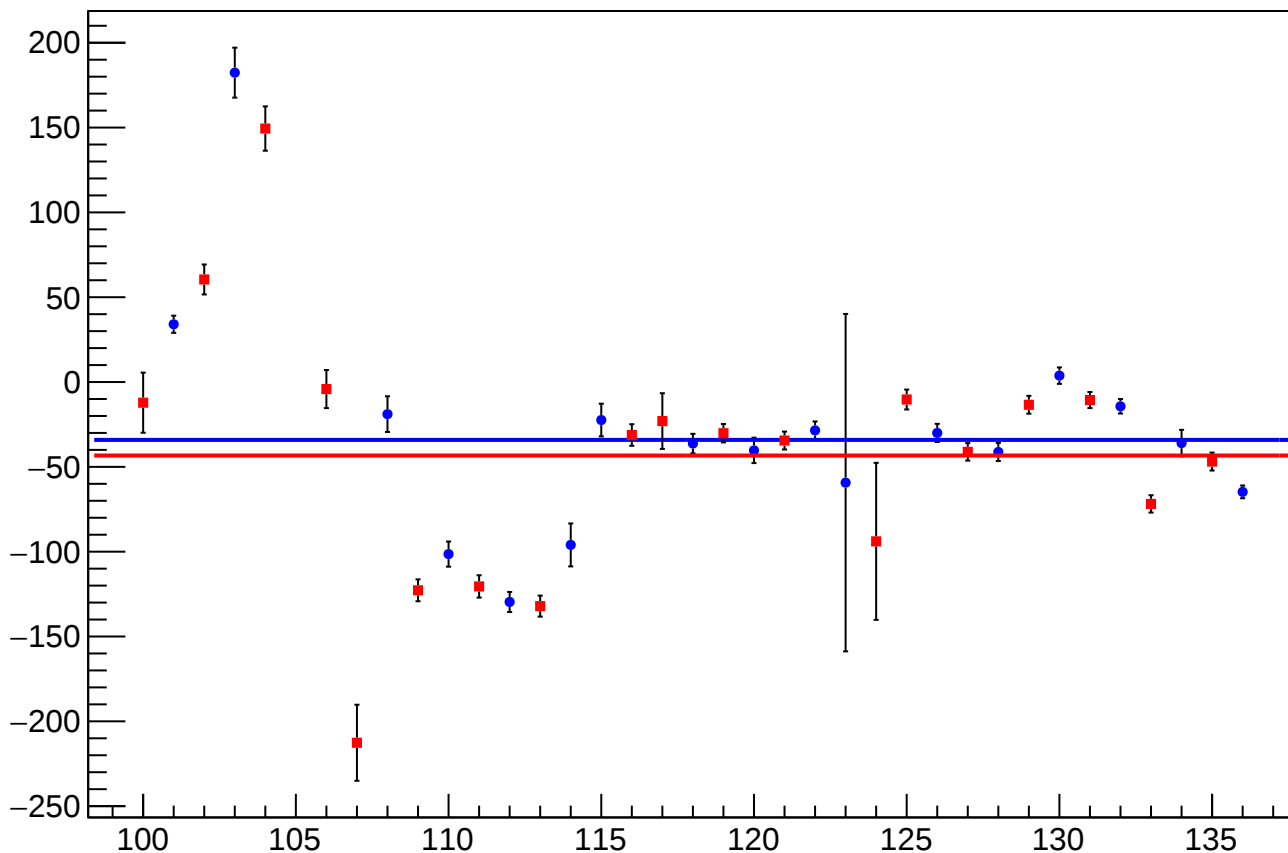
Right Out:  $-0.409 \pm 0.019$   $\chi^2/\text{NDF}$ : 943.0/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.180 \pm 0.018$   $\chi^2/\text{NDF}$ : 995.7/16

$-0.409 \pm 0.019$   $\chi^2/\text{NDF}$ : 943.0/18

# reg\_asym\_atl1\_diff\_bpm4aX\_slope vs Slug



Right In:  $-34.105 \pm 1.482$   $\chi^2/\text{NDF}: 922.9/16$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

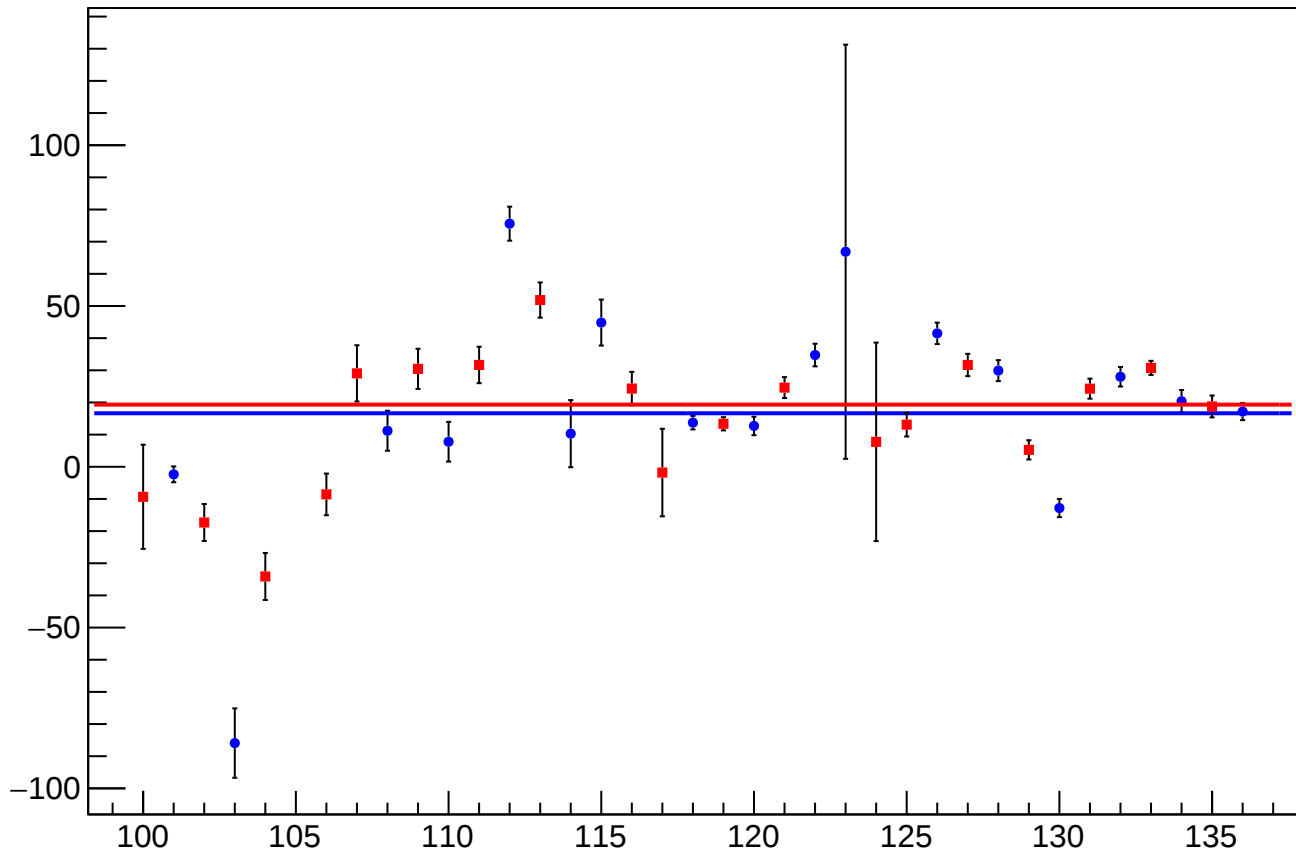
Right Out:  $-43.312 \pm 1.534$   $\chi^2/\text{NDF}: 1080.4/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-34.105 \pm 1.482$   $\chi^2/\text{NDF}: 922.9/16$

$-43.312 \pm 1.534$   $\chi^2/\text{NDF}: 1080.4/18$

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In: 16.641 $\pm$ 0.859  $\chi^2$ /NDF: 518.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

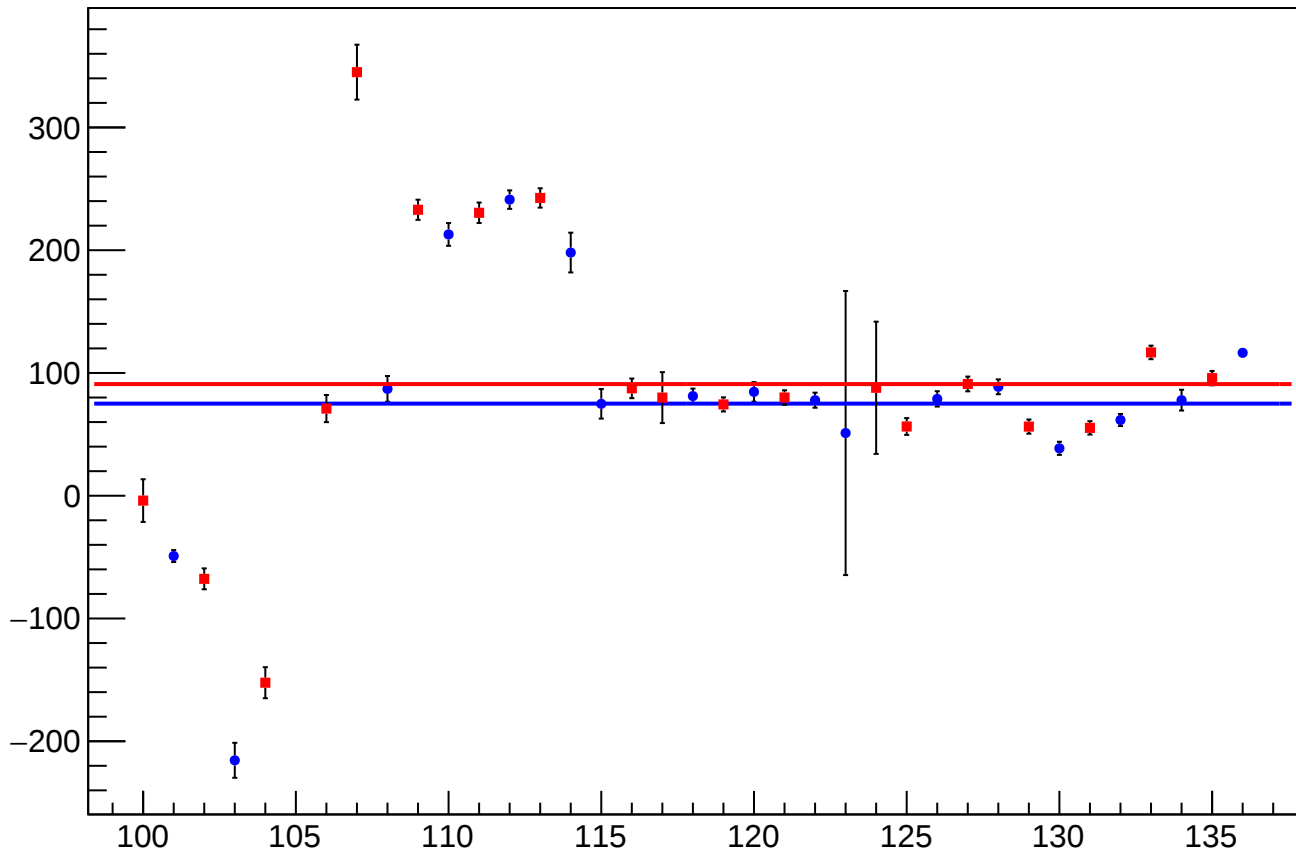
Right Out: 19.326 $\pm$ 0.906  $\chi^2$ /NDF: 241.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

16.641 $\pm$ 0.859  $\chi^2$ /NDF: 518.9/16

19.326 $\pm$ 0.906  $\chi^2$ /NDF: 241.9/18

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In: 75.032+/-1.647  $\chi^2$ /NDF: 1999.7/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

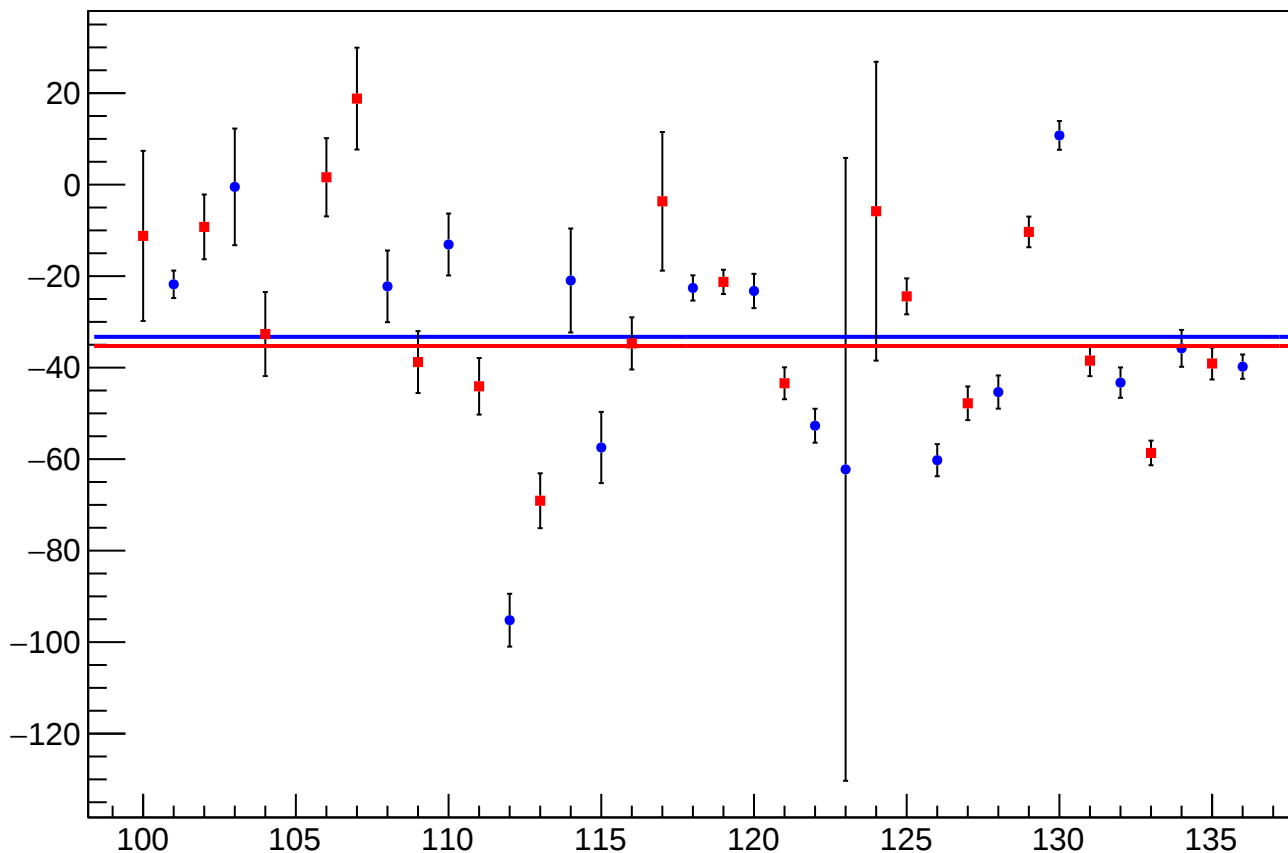
Right Out: 90.935+/-1.738  $\chi^2$ /NDF: 1967.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

75.032+/-1.647  $\chi^2$ /NDF: 1999.7/16

90.935+/-1.738  $\chi^2$ /NDF: 1967.6/18

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In: -33.272+/-0.982  $\chi^2/\text{NDF}$ : 489.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

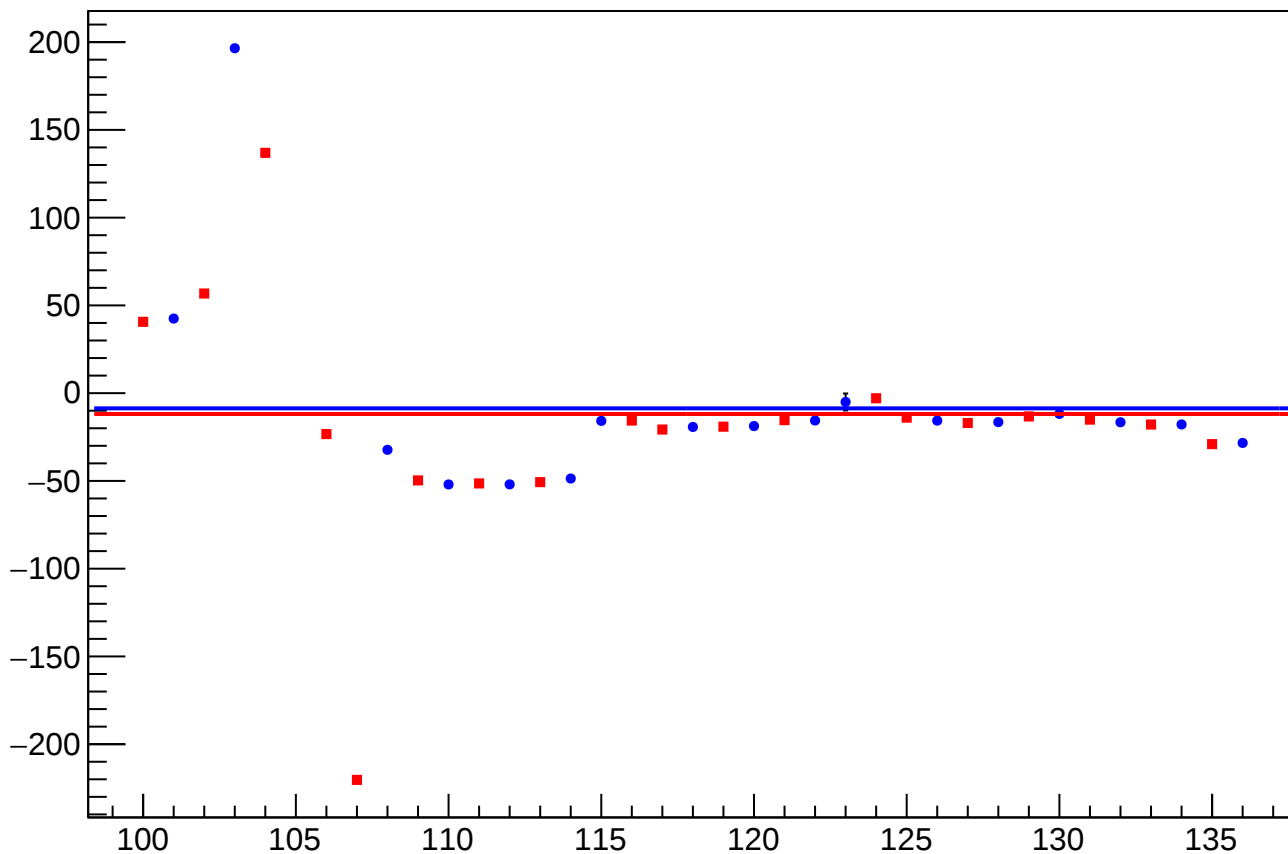
Right Out: -35.274+/-1.038  $\chi^2/\text{NDF}$ : 282.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-33.272+/-0.982  $\chi^2/\text{NDF}$ : 489.4/16

-35.274+/-1.038  $\chi^2/\text{NDF}$ : 282.4/18

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In: -8.657+/-0.059  $\chi^2/\text{NDF}$ : 575742.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

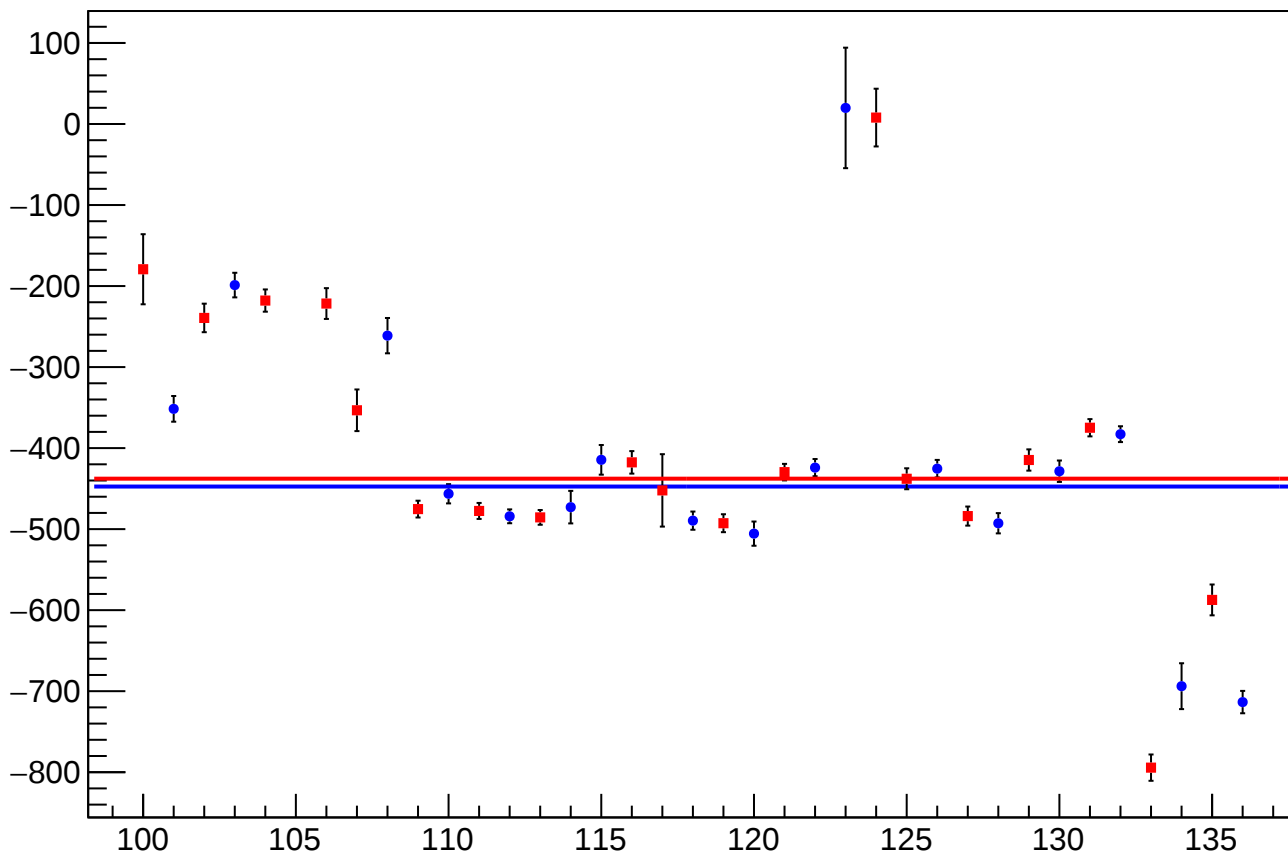
Right Out: -11.869+/-0.064  $\chi^2/\text{NDF}$ : 552704.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-8.657+/-0.059  $\chi^2/\text{NDF}$ : 575742.7/16

-11.869+/-0.064  $\chi^2/\text{NDF}$ : 552704.9/18

# reg\_asym\_atl2\_diff\_bpm4aX\_slope vs Slug



Right In: -447.440+/-3.231  $\chi^2$ /NDF: 985.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

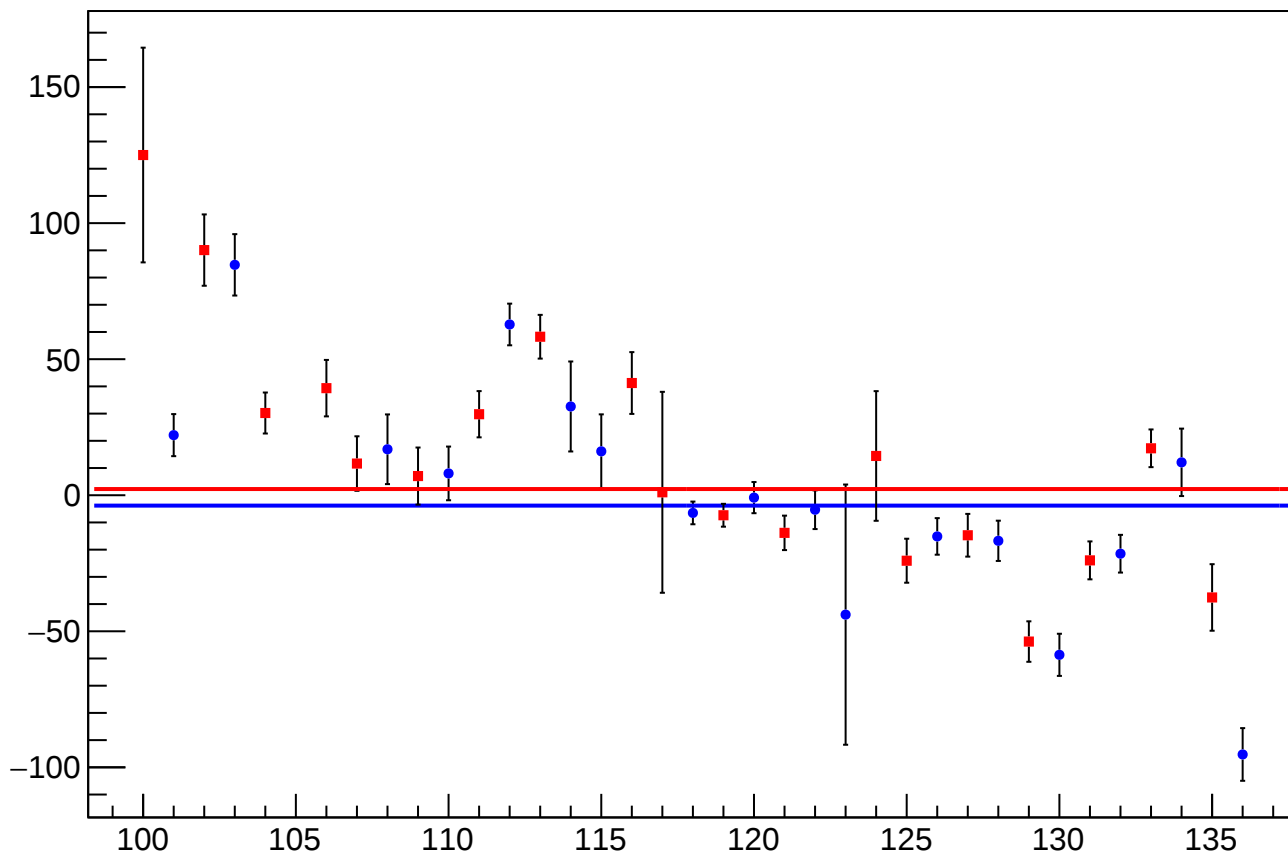
Right Out: -437.731+/-3.107  $\chi^2$ /NDF: 1397.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-447.440+/-3.231  $\chi^2$ /NDF: 985.5/16

-437.731+/-3.107  $\chi^2$ /NDF: 1397.6/18

# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug



Right In: -3.815+/-1.923  $\chi^2/\text{NDF}$ : 314.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

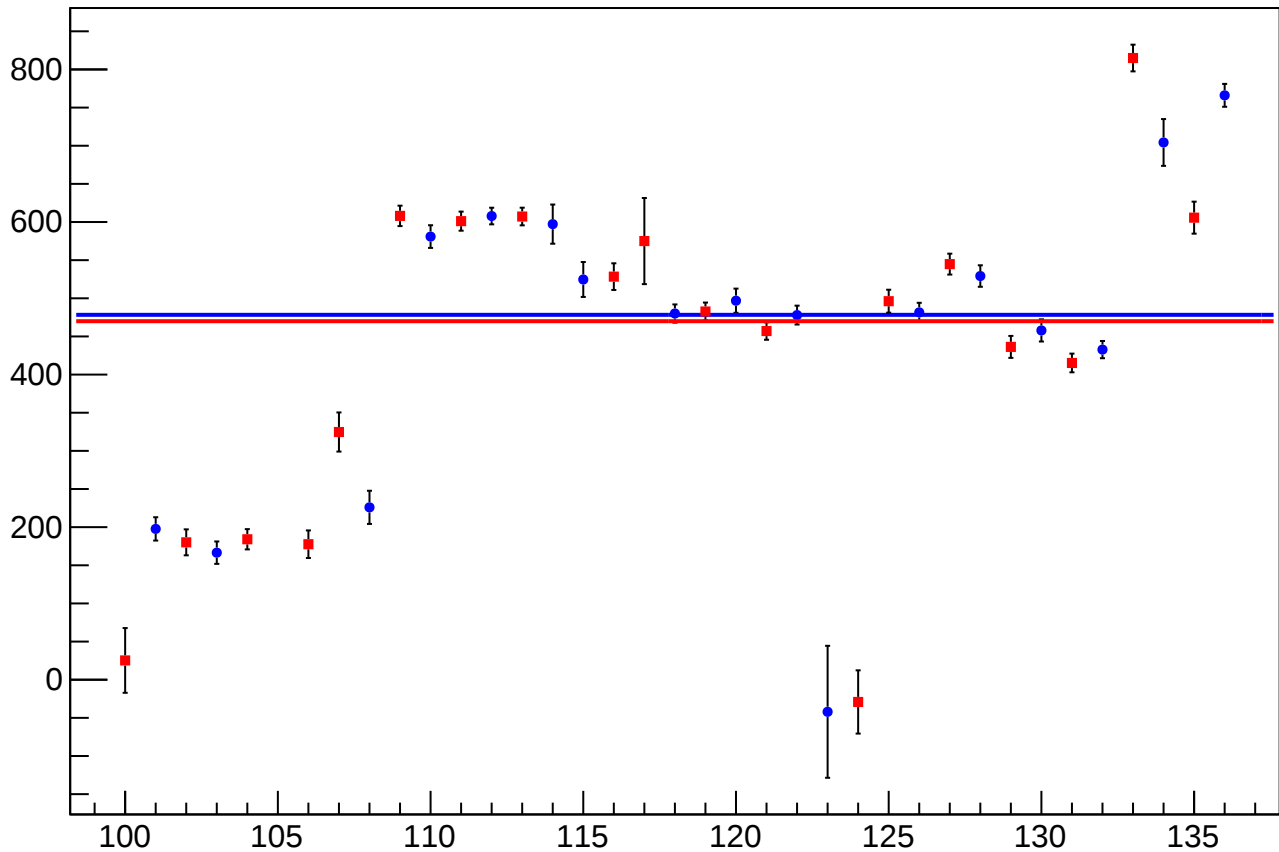
Right Out: 2.277+/-1.920  $\chi^2/\text{NDF}$ : 266.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.815+/-1.923  $\chi^2/\text{NDF}$ : 314.3/16

2.277+/-1.920  $\chi^2/\text{NDF}$ : 266.4/18

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 478.334+/-3.662  $\chi^2/\text{NDF}$ : 1628.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

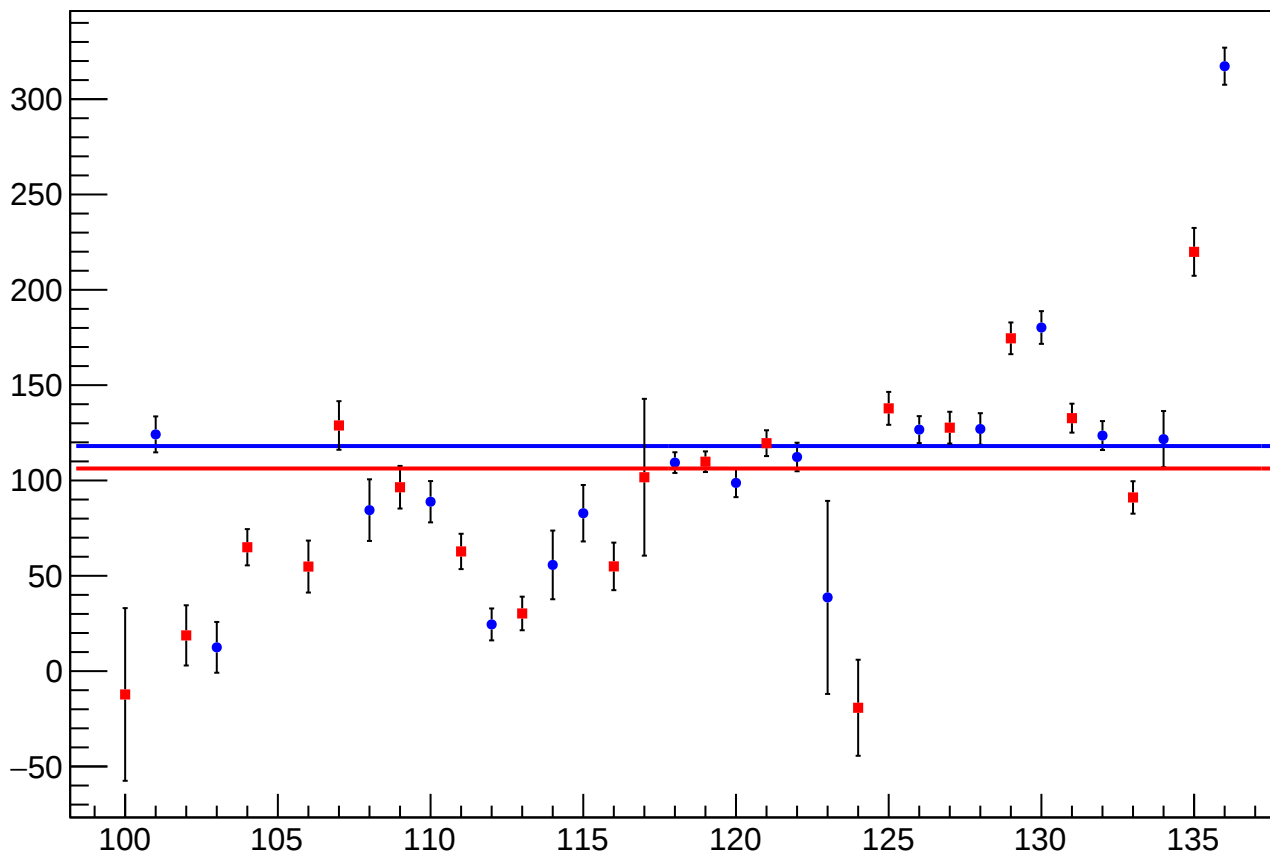
Right Out: 469.987+/-3.545  $\chi^2/\text{NDF}$ : 2164.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

478.334+/-3.662  $\chi^2/\text{NDF}$ : 1628.8/16

469.987+/-3.545  $\chi^2/\text{NDF}$ : 2164.0/18

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In: 118.055+/-2.225  $\chi^2/\text{NDF}$ : 705.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

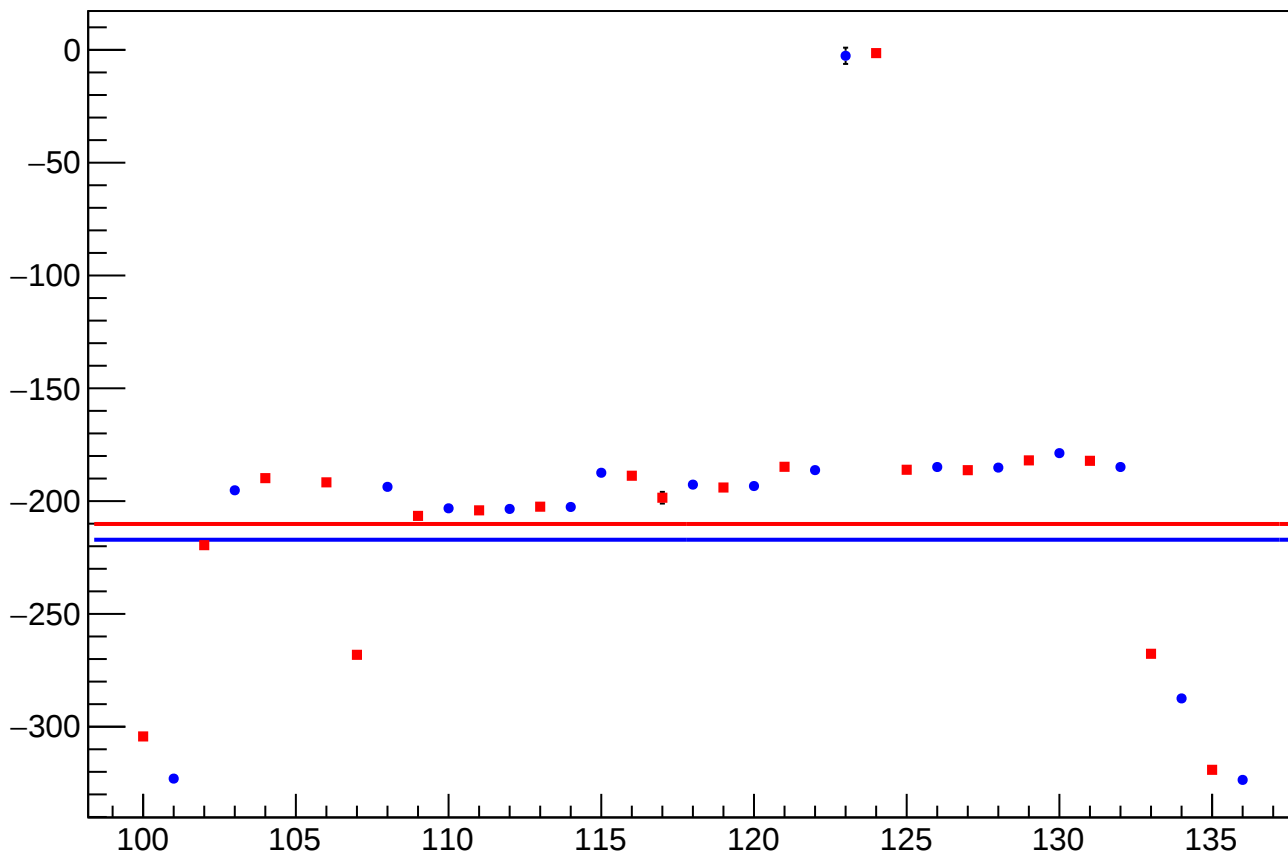
Right Out: 106.283+/-2.214  $\chi^2/\text{NDF}$ : 401.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

118.055+/-2.225  $\chi^2/\text{NDF}$ : 705.3/16

106.283+/-2.214  $\chi^2/\text{NDF}$ : 401.8/18

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In: -217.120+/-0.137  $\chi^2/\text{NDF}$ : 146559.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

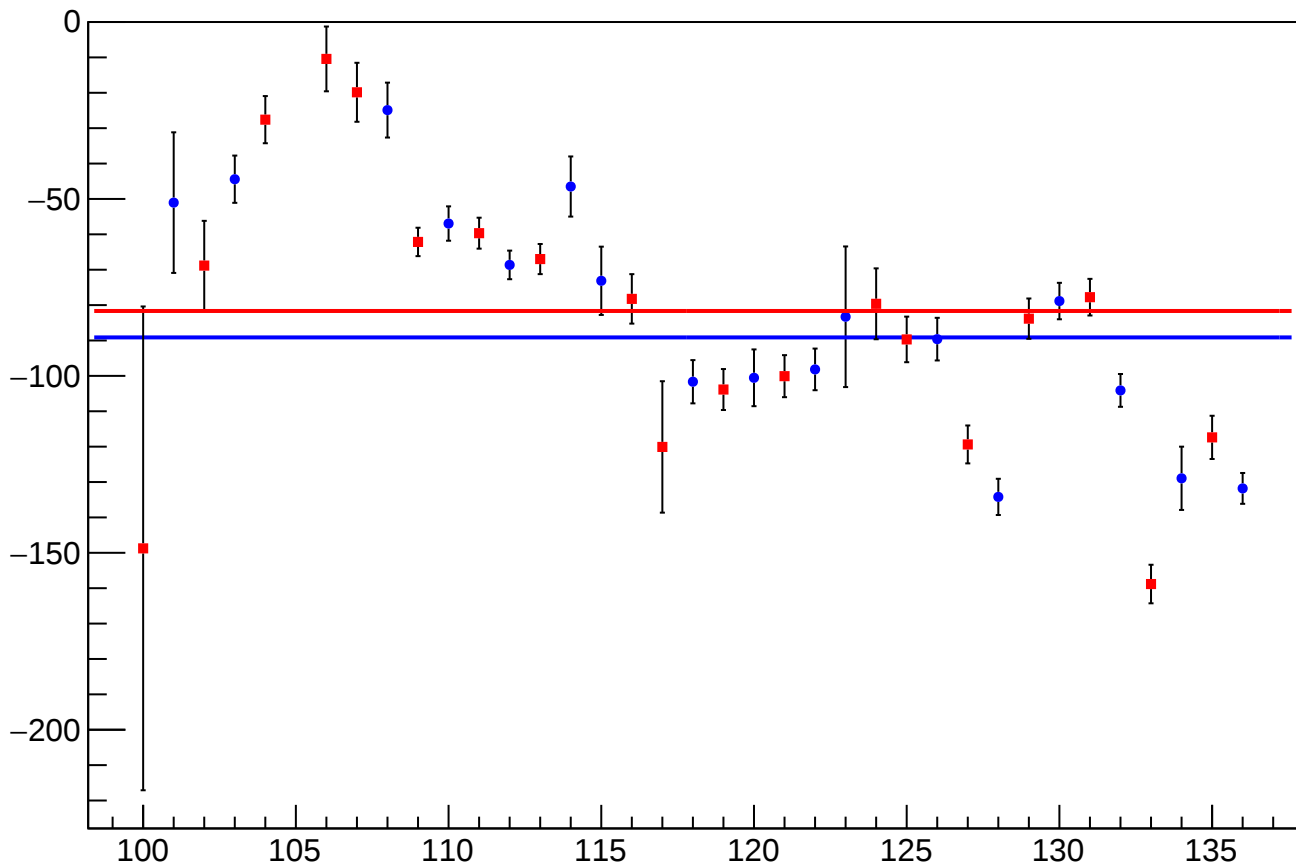
Right Out: -210.134+/-0.131  $\chi^2/\text{NDF}$ : 98942.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-217.120+/-0.137  $\chi^2/\text{NDF}$ : 146559.7/16

-210.134+/-0.131  $\chi^2/\text{NDF}$ : 98942.4/18

# reg\_asym\_atr1\_diff\_bpm4aX\_slope vs Slug



Right In: -89.129+/-1.476  $\chi^2/\text{NDF}$ : 431.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

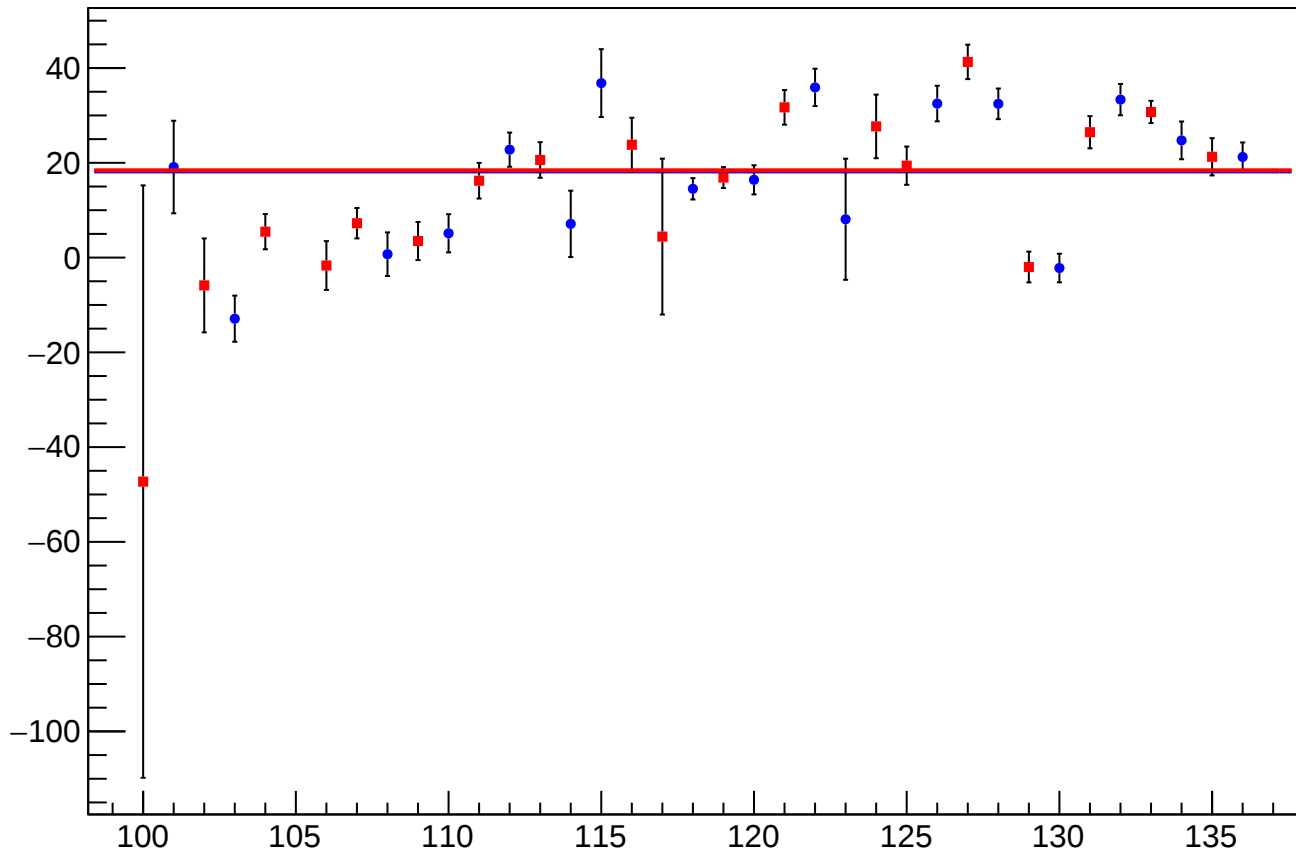
Right Out: -81.660+/-1.409  $\chi^2/\text{NDF}$ : 559.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-89.129+/-1.476  $\chi^2/\text{NDF}$ : 431.0/16

-81.660+/-1.409  $\chi^2/\text{NDF}$ : 559.7/18

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug



Right In: 18.188+/-0.917  $\chi^2$ /NDF: 204.9/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

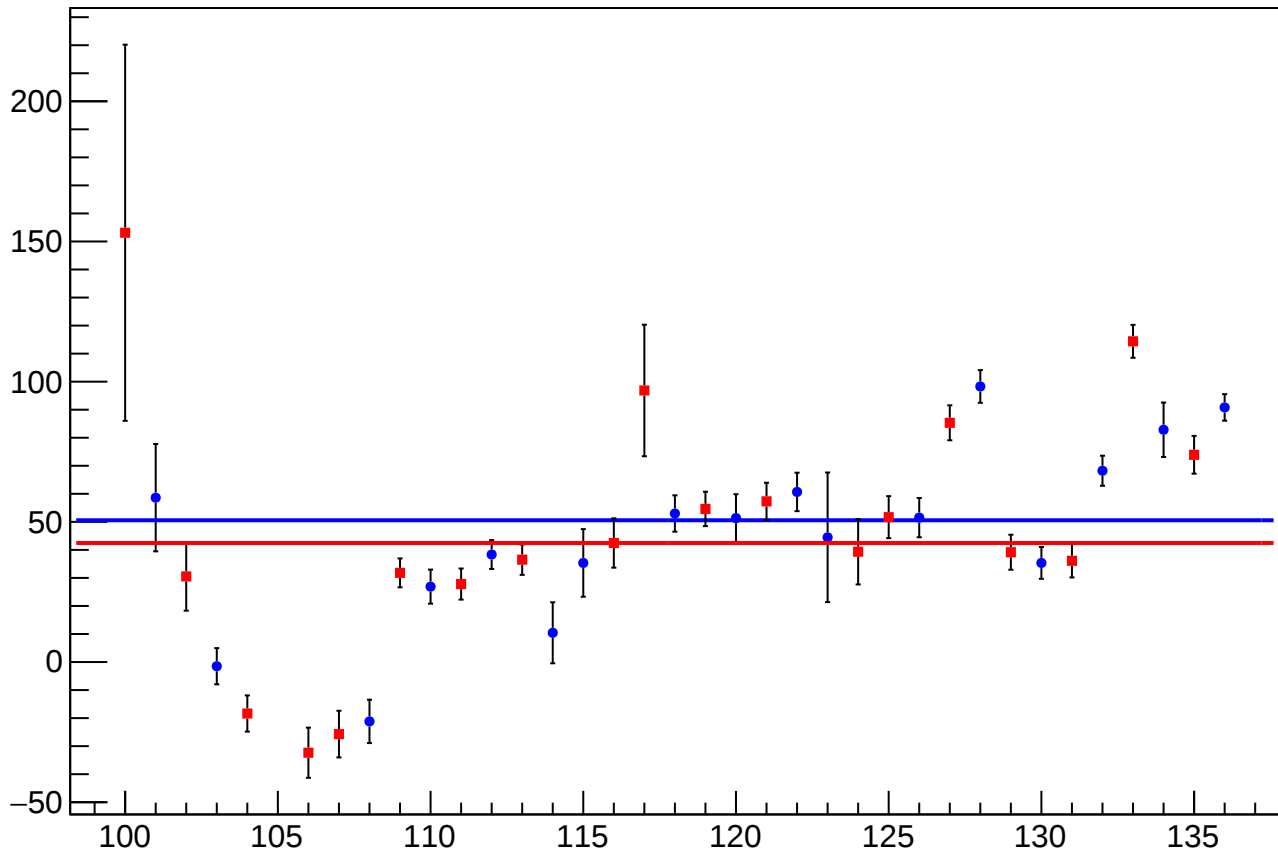
Right Out: 18.424+/-0.869  $\chi^2$ /NDF: 191.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

18.188+/-0.917  $\chi^2$ /NDF: 204.9/16

18.424+/-0.869  $\chi^2$ /NDF: 191.2/18

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In: 50.565 $\pm$ 1.678  $\chi^2$ /NDF: 357.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

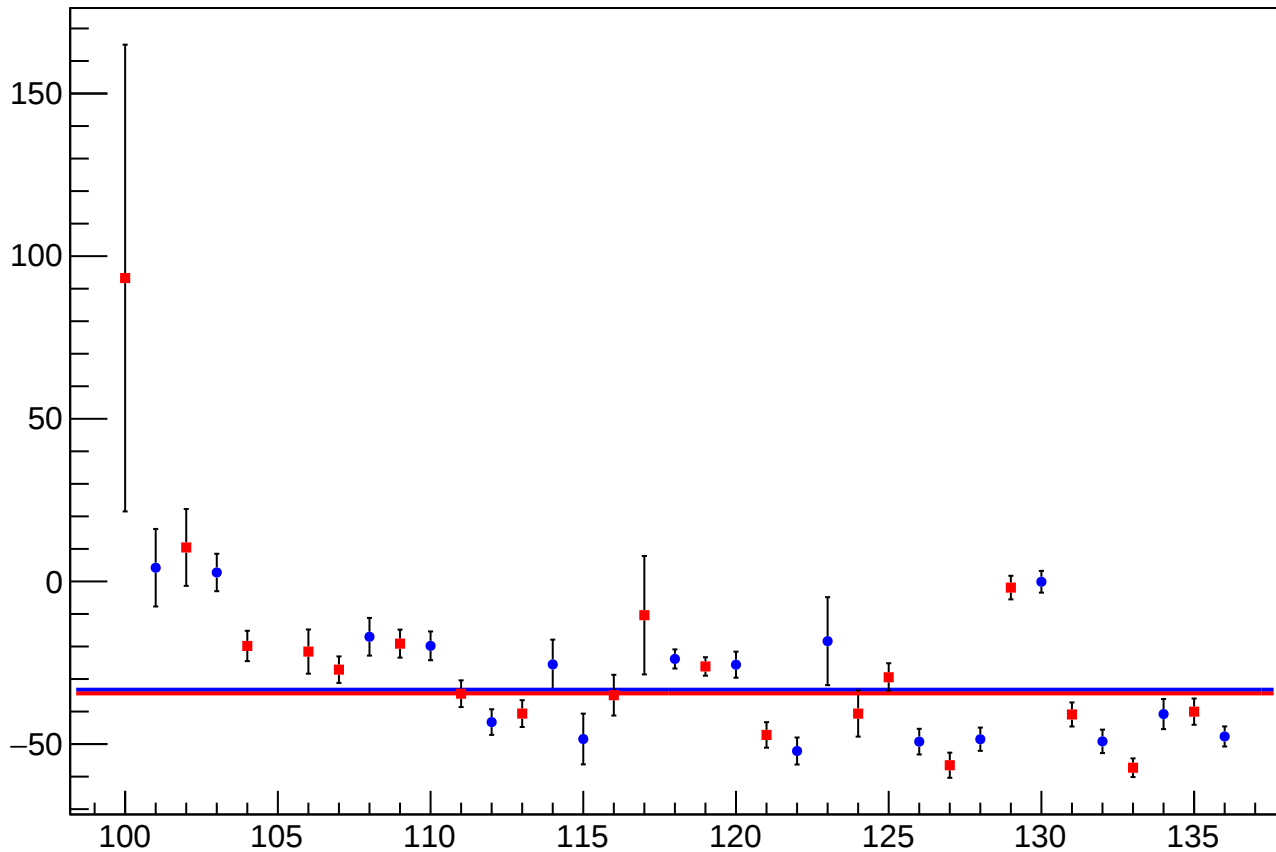
Right Out: 42.464 $\pm$ 1.618  $\chi^2$ /NDF: 478.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

50.565 $\pm$ 1.678  $\chi^2$ /NDF: 357.9/16

42.464 $\pm$ 1.618  $\chi^2$ /NDF: 478.3/18

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In: -33.281+/-1.043  $\chi^2/\text{NDF}$ : 290.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

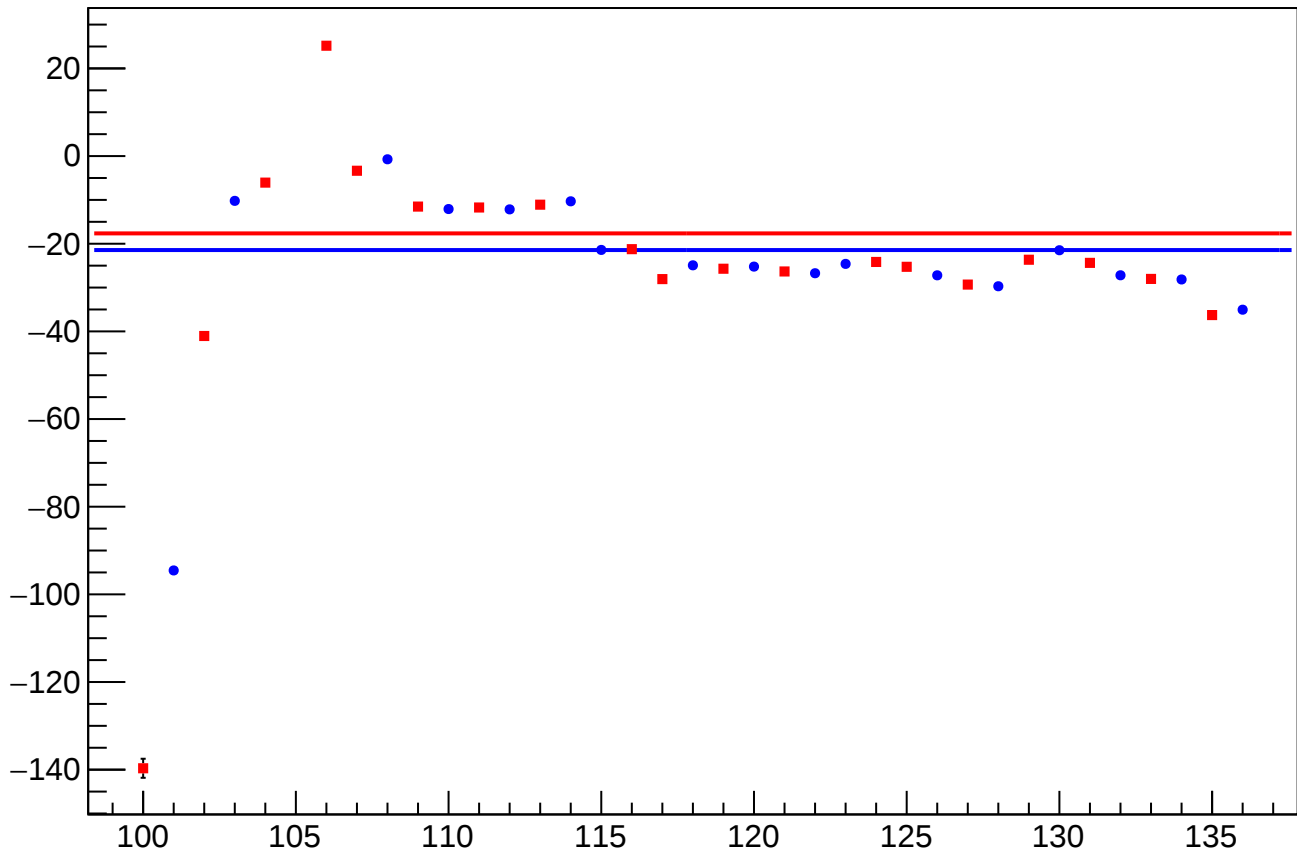
Right Out: -34.423+/-1.001  $\chi^2/\text{NDF}$ : 253.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-33.281+/-1.043  $\chi^2/\text{NDF}$ : 290.1/16

-34.423+/-1.001  $\chi^2/\text{NDF}$ : 253.4/18

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In: -21.442+/-0.059  $\chi^2/\text{NDF}$ : 48968.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

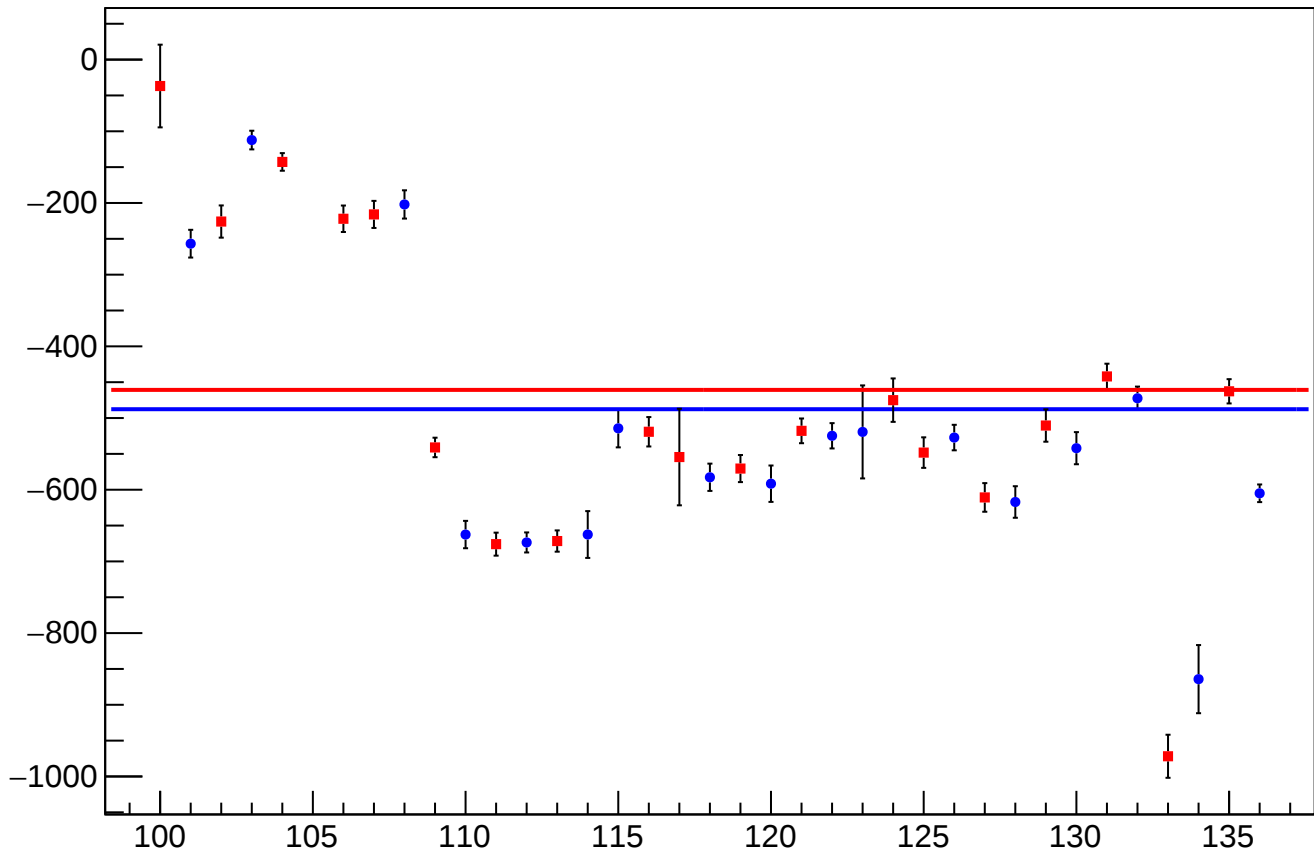
-21.442+/-0.059  $\chi^2/\text{NDF}$ : 48968.5/16

Right Out: -17.640+/-0.059  $\chi^2/\text{NDF}$ : 75556.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-17.640+/-0.059  $\chi^2/\text{NDF}$ : 75556.8/18

# reg\_asym\_atr2\_diff\_bpm4aX\_slope vs Slug



Right In: -487.691+/-4.605  $\chi^2/\text{NDF}$ : 1720.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

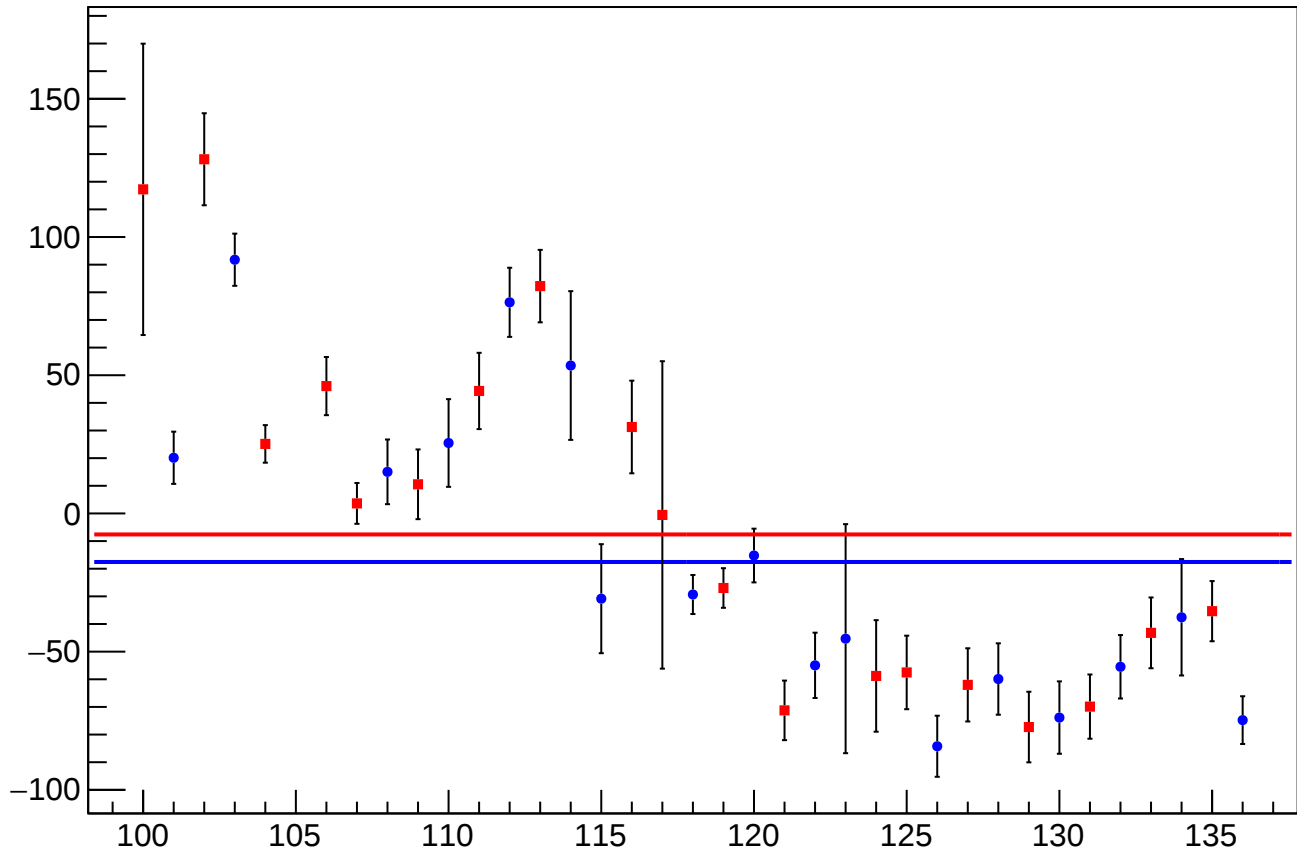
Right Out: -460.739+/-4.354  $\chi^2/\text{NDF}$ : 2007.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-487.691+/-4.605  $\chi^2/\text{NDF}$ : 1720.8/16

-460.739+/-4.354  $\chi^2/\text{NDF}$ : 2007.8/18

# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug



Right In: -17.564 $\pm$ 2.820  $\chi^2$ /NDF: 363.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

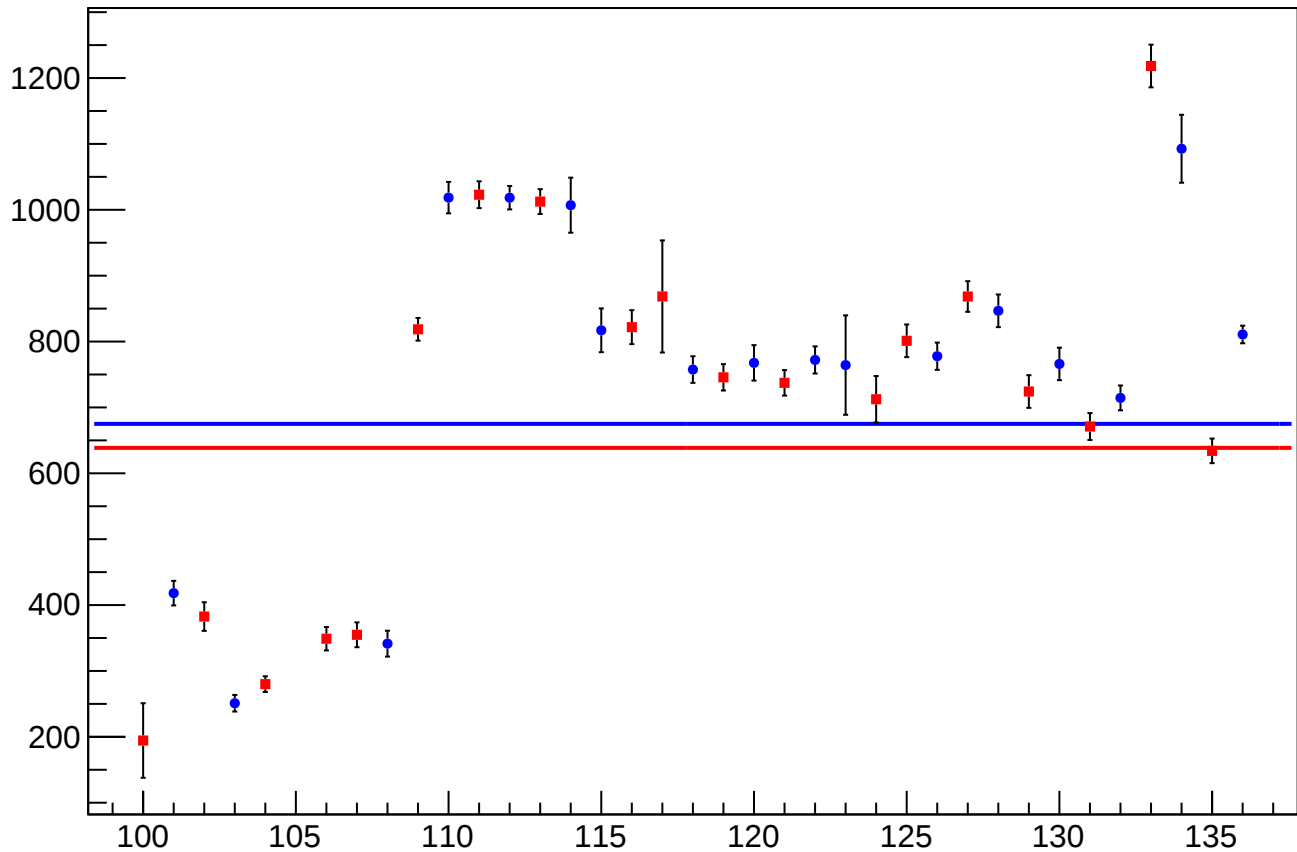
Right Out: -7.598 $\pm$ 2.633  $\chi^2$ /NDF: 344.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-17.564 $\pm$ 2.820  $\chi^2$ /NDF: 363.7/16

-7.598 $\pm$ 2.633  $\chi^2$ /NDF: 344.6/18

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In: 675.045+/-5.067  $\chi^2/\text{NDF}$ : 2584.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

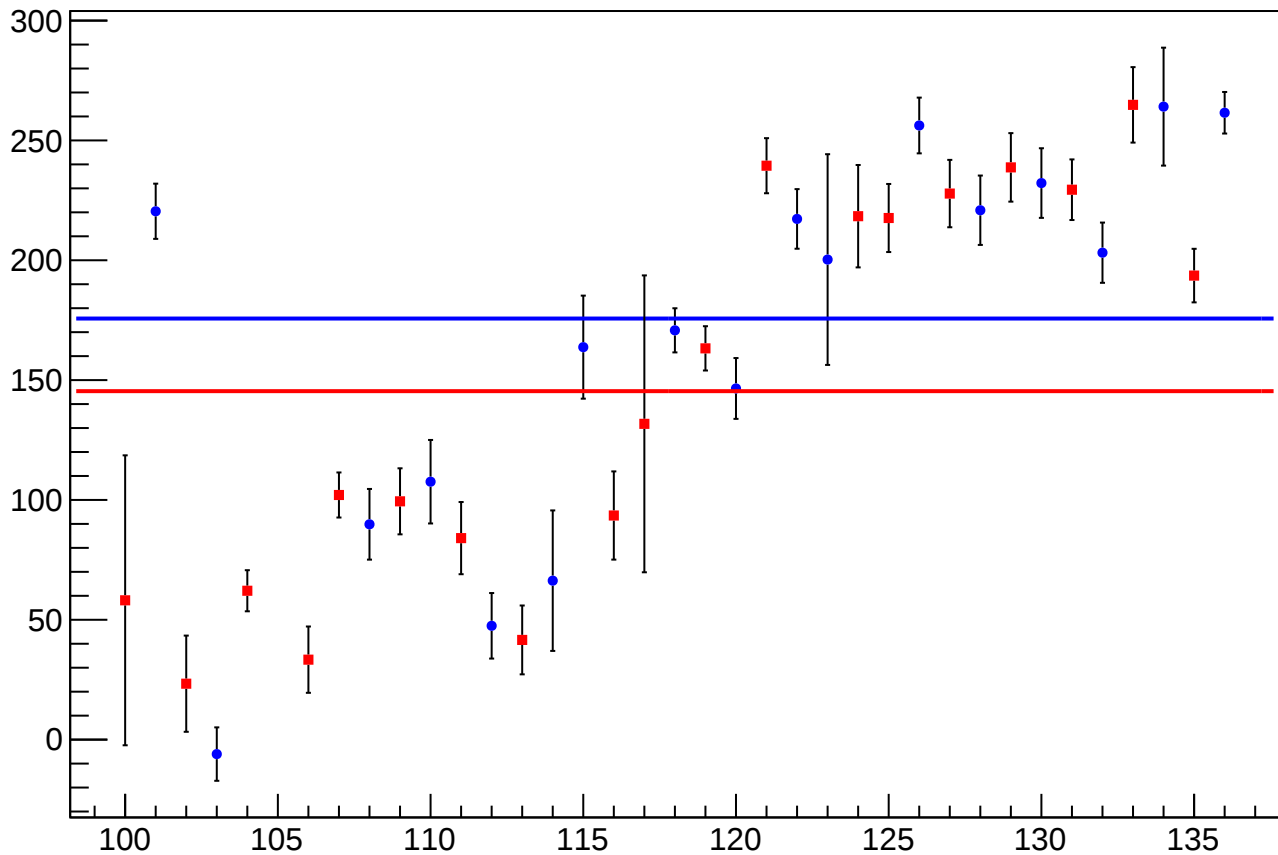
Right Out: 638.623+/-4.821  $\chi^2/\text{NDF}$ : 3053.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

675.045+/-5.067  $\chi^2/\text{NDF}$ : 2584.3/16

638.623+/-4.821  $\chi^2/\text{NDF}$ : 3053.1/18

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In: 175.686 $\pm$ 3.239  $\chi^2$ /NDF: 637.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

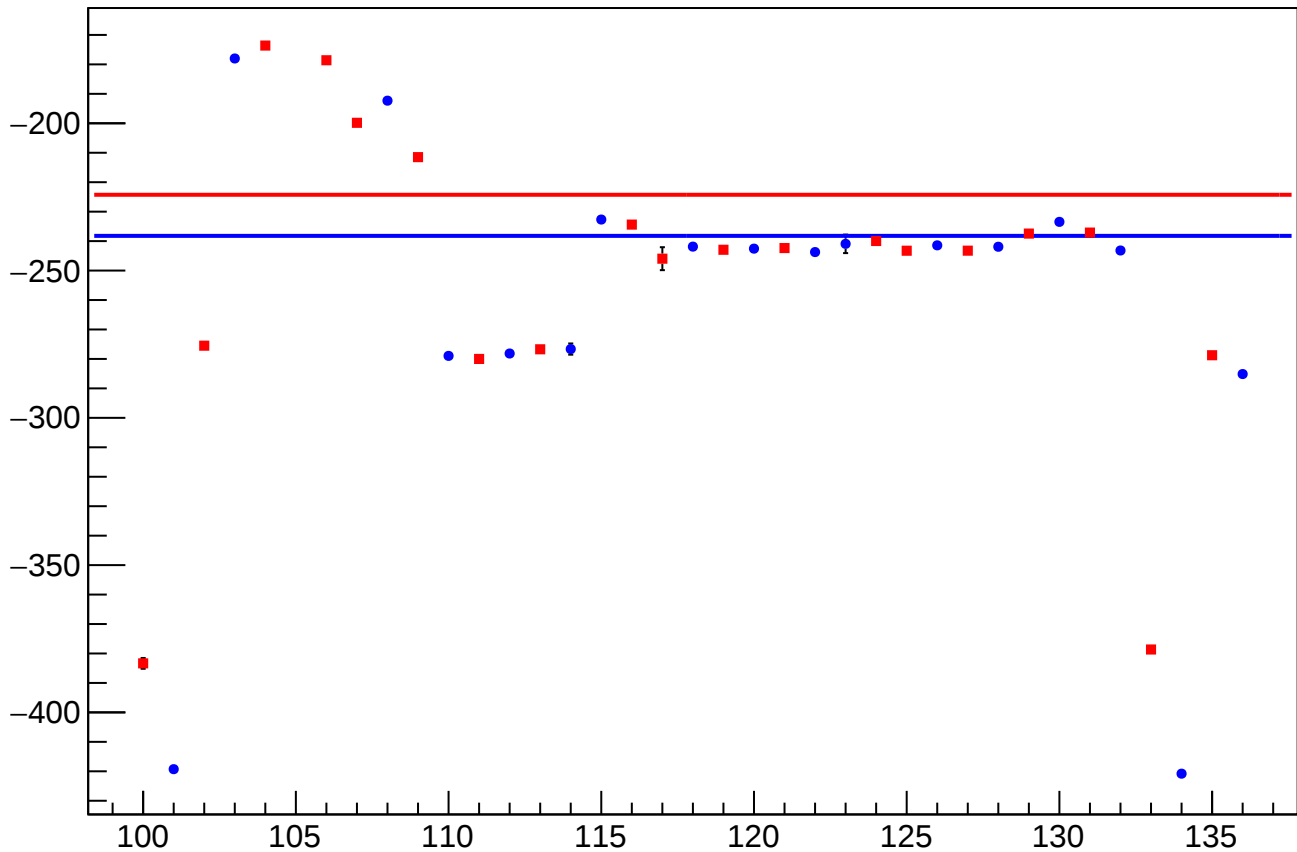
Right Out: 145.388 $\pm$ 3.081  $\chi^2$ /NDF: 613.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

175.686 $\pm$ 3.239  $\chi^2$ /NDF: 637.9/16

145.388 $\pm$ 3.081  $\chi^2$ /NDF: 613.9/18

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In: -238.217+/-0.160  $\chi^2$ /NDF: 167120.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

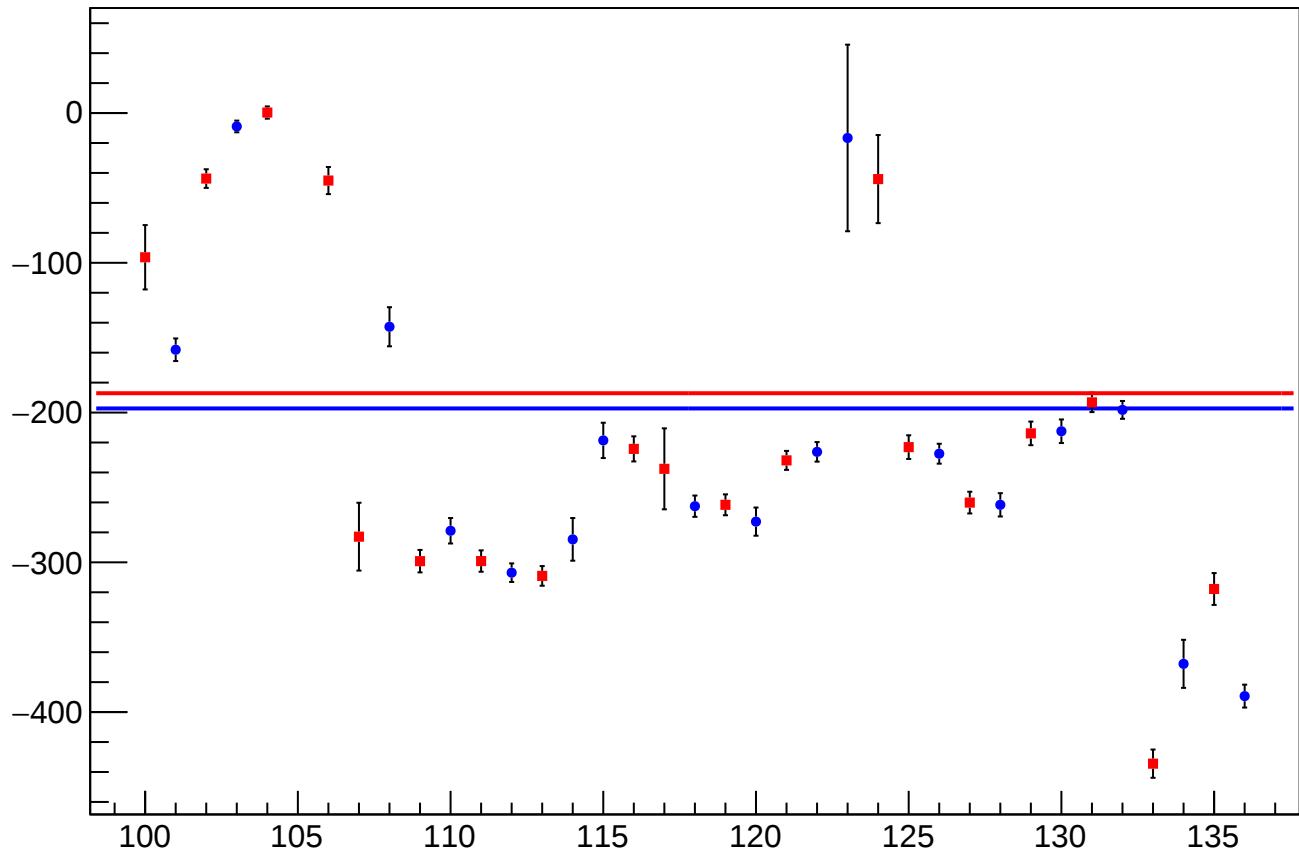
Right Out: -224.266+/-0.154  $\chi^2$ /NDF: 96547.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-238.217+/-0.160  $\chi^2$ /NDF: 167120.0/16

-224.266+/-0.154  $\chi^2$ /NDF: 96547.9/18

# reg\_asym\_atl\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -197.253+/-1.826  $\chi^2/\text{NDF}$ : 3823.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

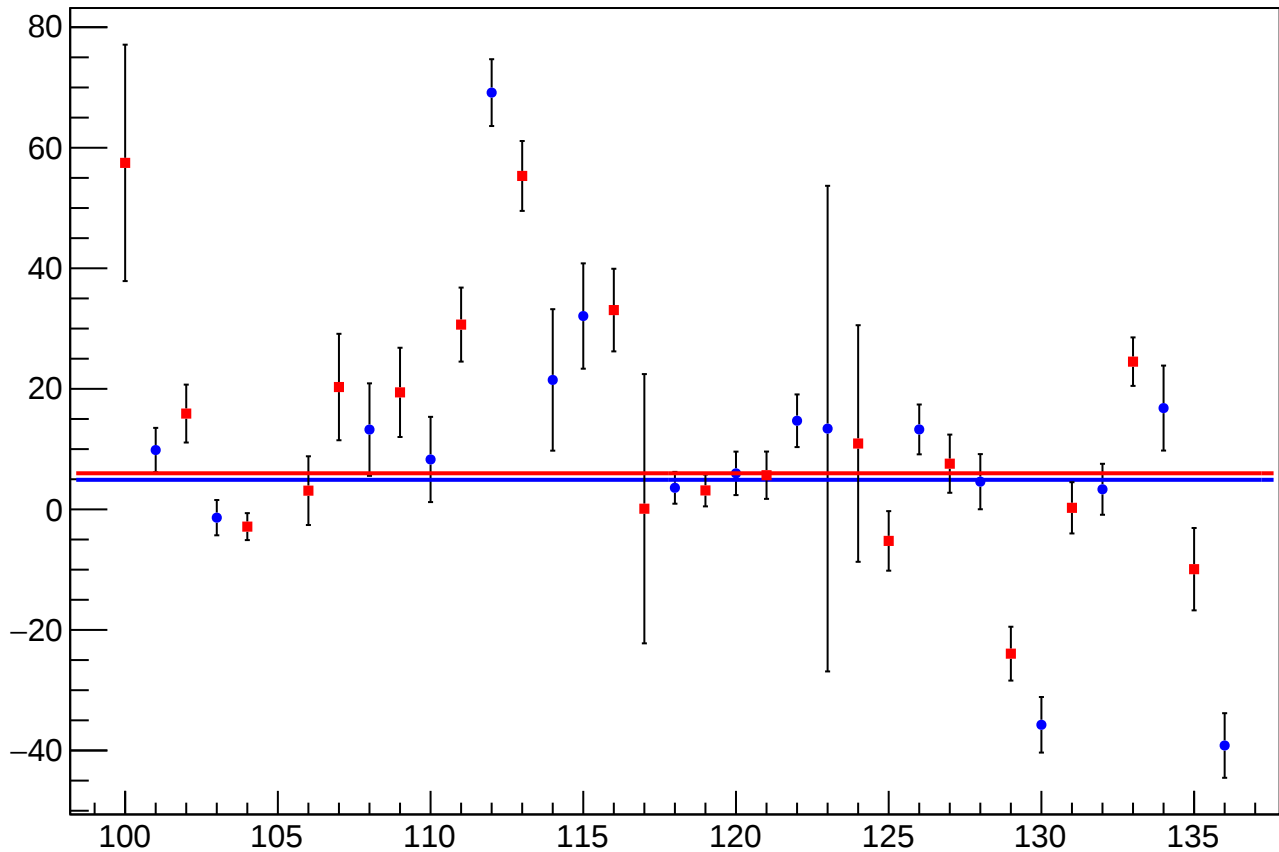
Right Out: -187.080+/-1.770  $\chi^2/\text{NDF}$ : 4900.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-197.253+/-1.826  $\chi^2/\text{NDF}$ : 3823.7/16

-187.080+/-1.770  $\chi^2/\text{NDF}$ : 4900.3/18

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 4.905 $\pm$ 1.105  $\chi^2$ /NDF: 311.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

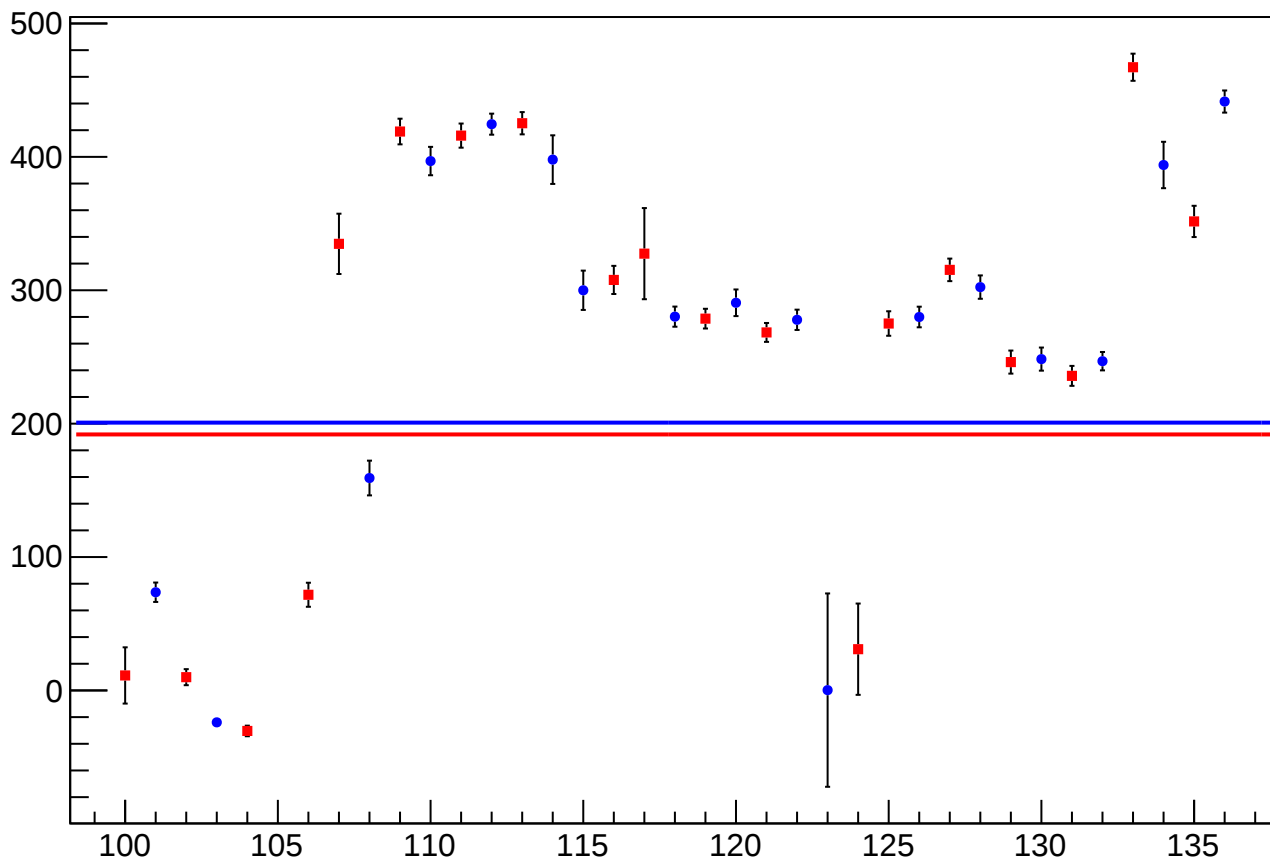
Right Out: 5.990 $\pm$ 1.072  $\chi^2$ /NDF: 217.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

4.905 $\pm$ 1.105  $\chi^2$ /NDF: 311.7/16

5.990 $\pm$ 1.072  $\chi^2$ /NDF: 217.0/18

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 200.773+/-1.983  $\chi^2/\text{NDF}$ : 6733.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

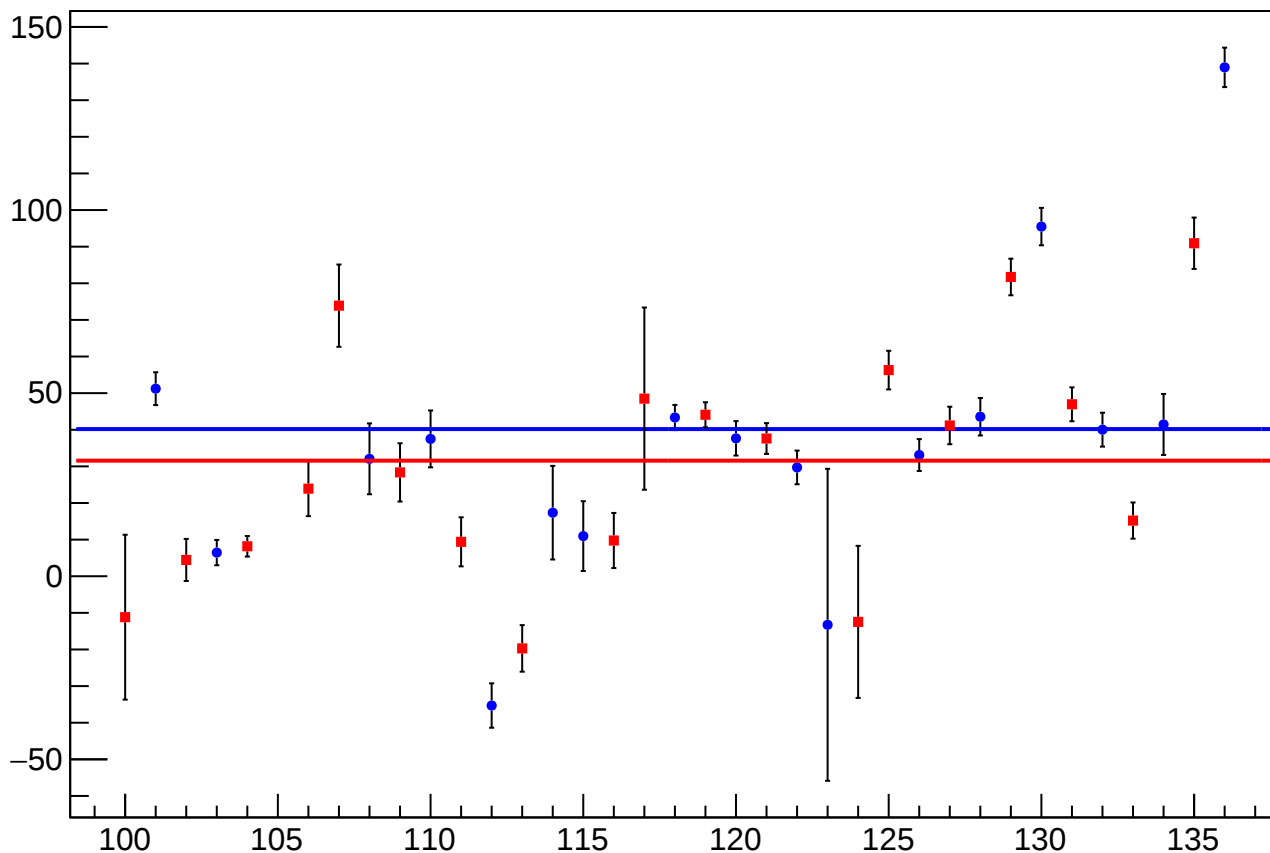
Right Out: 191.918+/-1.932  $\chi^2/\text{NDF}$ : 7991.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

200.773+/-1.983  $\chi^2/\text{NDF}$ : 6733.0/16

191.918+/-1.932  $\chi^2/\text{NDF}$ : 7991.8/18

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 40.185+/-1.283  $\chi^2/\text{NDF}$ : 734.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

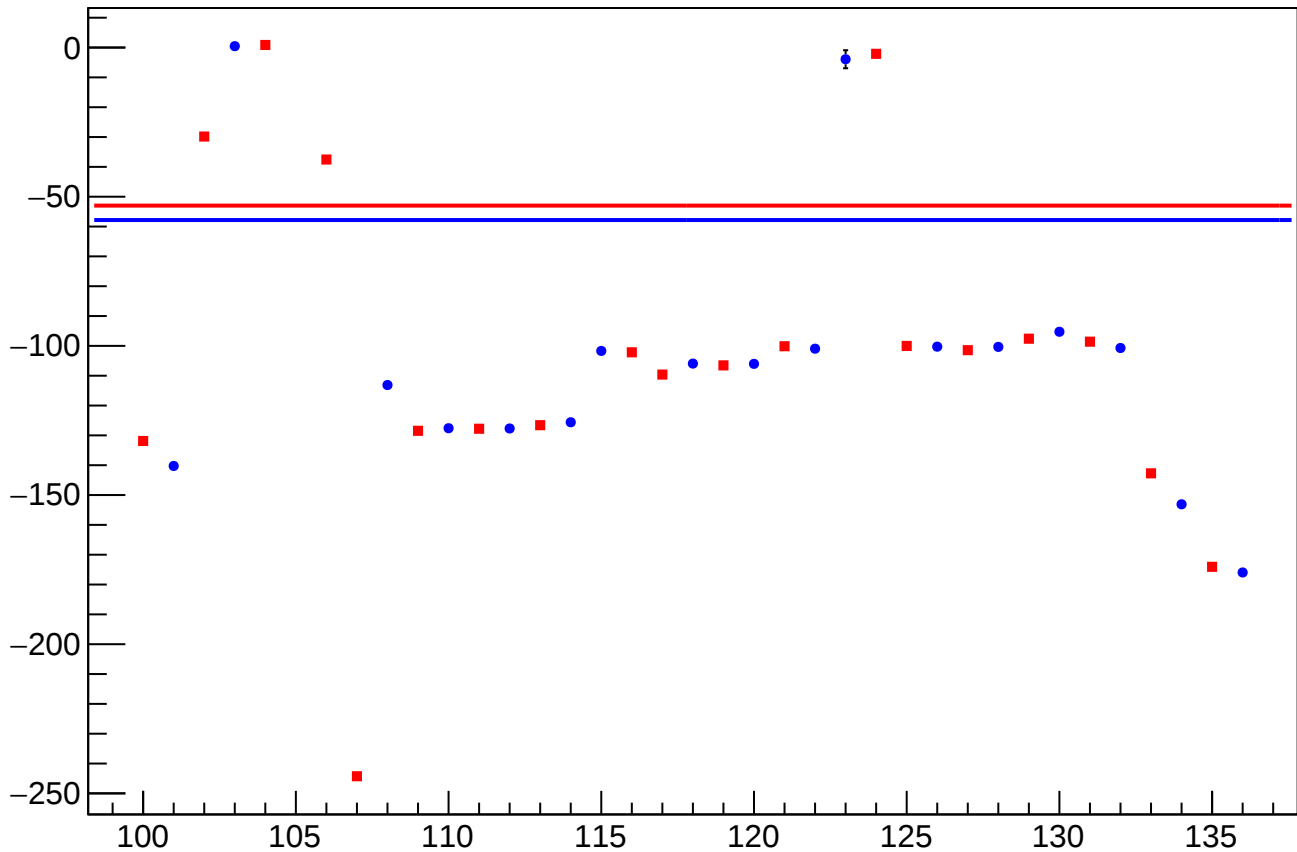
Right Out: 31.564+/-1.256  $\chi^2/\text{NDF}$ : 435.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

40.185+/-1.283  $\chi^2/\text{NDF}$ : 734.6/16

31.564+/-1.256  $\chi^2/\text{NDF}$ : 435.5/18

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -57.821+/-0.062  $\chi^2/\text{NDF}$ : 1101296.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

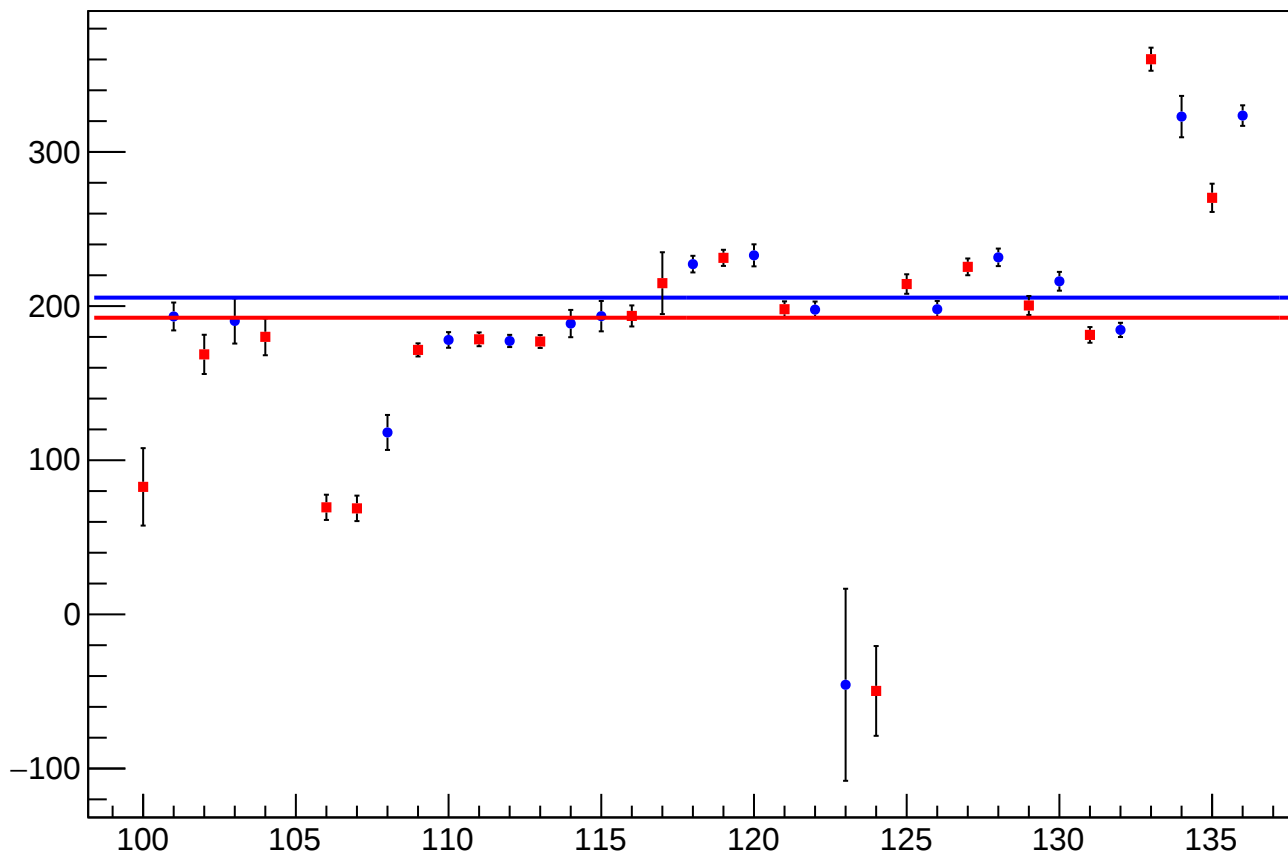
Right Out: -52.986+/-0.061  $\chi^2/\text{NDF}$ : 937001.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-57.821+/-0.062  $\chi^2/\text{NDF}$ : 1101296.2/16

-52.986+/-0.061  $\chi^2/\text{NDF}$ : 937001.9/18

# reg\_asym\_atl\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: 205.494 $\pm$ 1.565  $\chi^2$ /NDF: 633.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

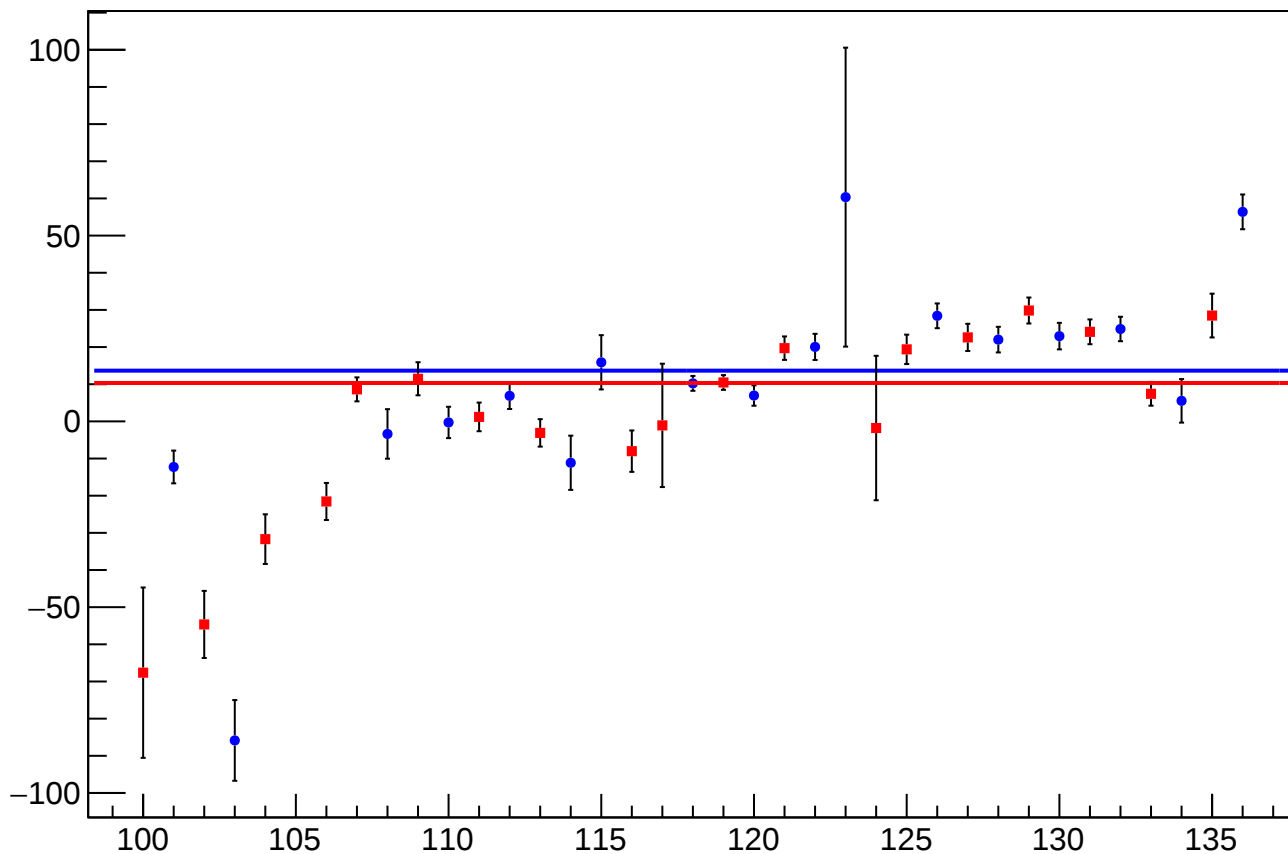
Right Out: 192.454 $\pm$ 1.474  $\chi^2$ /NDF: 1276.5/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

205.494 $\pm$ 1.565  $\chi^2$ /NDF: 633.0/16

192.454 $\pm$ 1.474  $\chi^2$ /NDF: 1276.5/18

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 13.652 $\pm$ 0.936  $\chi^2$ /NDF: 294.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

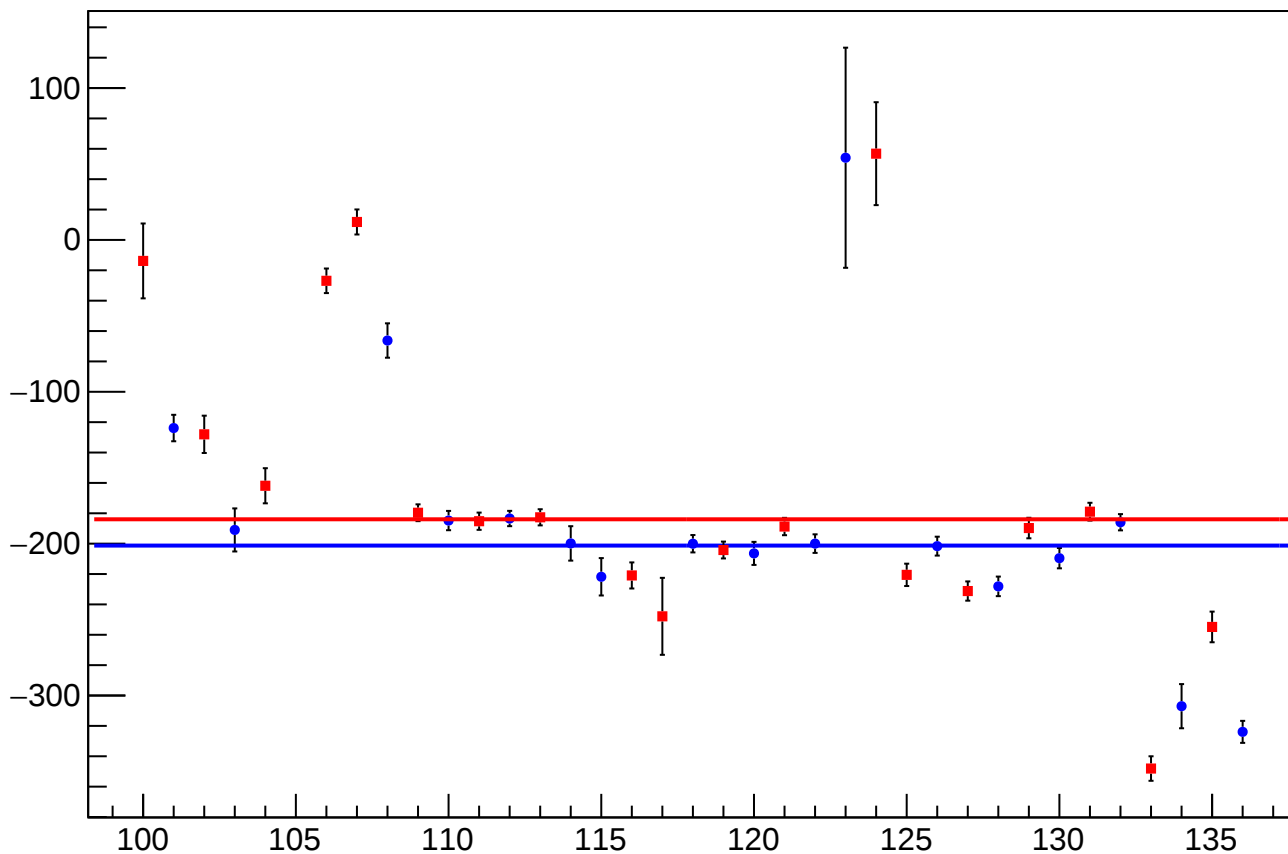
Right Out: 10.334 $\pm$ 0.916  $\chi^2$ /NDF: 258.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

13.652 $\pm$ 0.936  $\chi^2$ /NDF: 294.0/16

10.334 $\pm$ 0.916  $\chi^2$ /NDF: 258.4/18

# reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -201.266+/-1.795  $\chi^2$ /NDF: 623.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

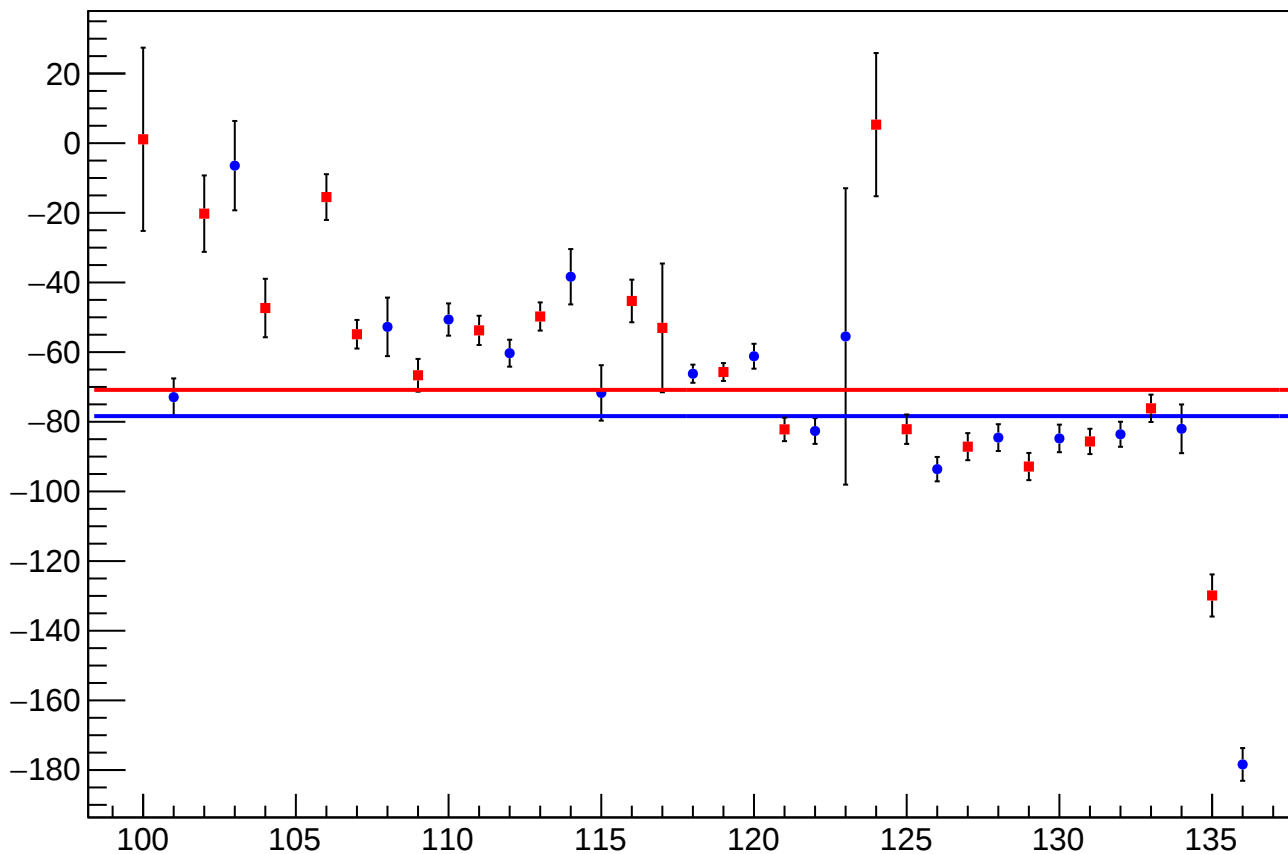
-201.266+/-1.795  $\chi^2$ /NDF: 623.4/16

Right Out: -183.955+/-1.706  $\chi^2$ /NDF: 1647.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-183.955+/-1.706  $\chi^2$ /NDF: 1647.4/18

# reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-78.376 \pm 1.081$   $\chi^2/\text{NDF}$ : 651.4/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

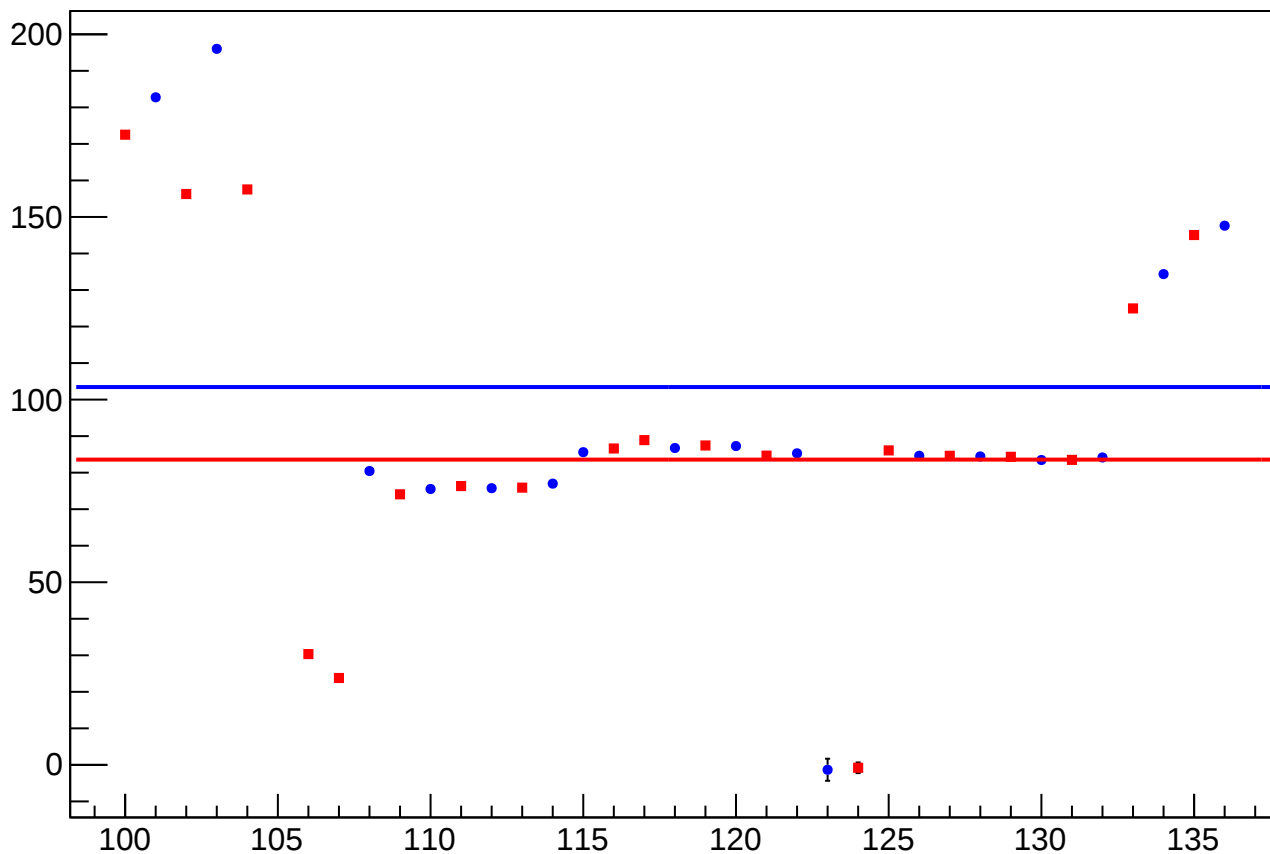
Right Out:  $-70.839 \pm 1.056$   $\chi^2/\text{NDF}$ : 384.7/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-78.376 \pm 1.081$   $\chi^2/\text{NDF}$ : 651.4/16

$-70.839 \pm 1.056$   $\chi^2/\text{NDF}$ : 384.7/18

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 103.436+/-0.071  $\chi^2/\text{NDF}$ : 272785.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

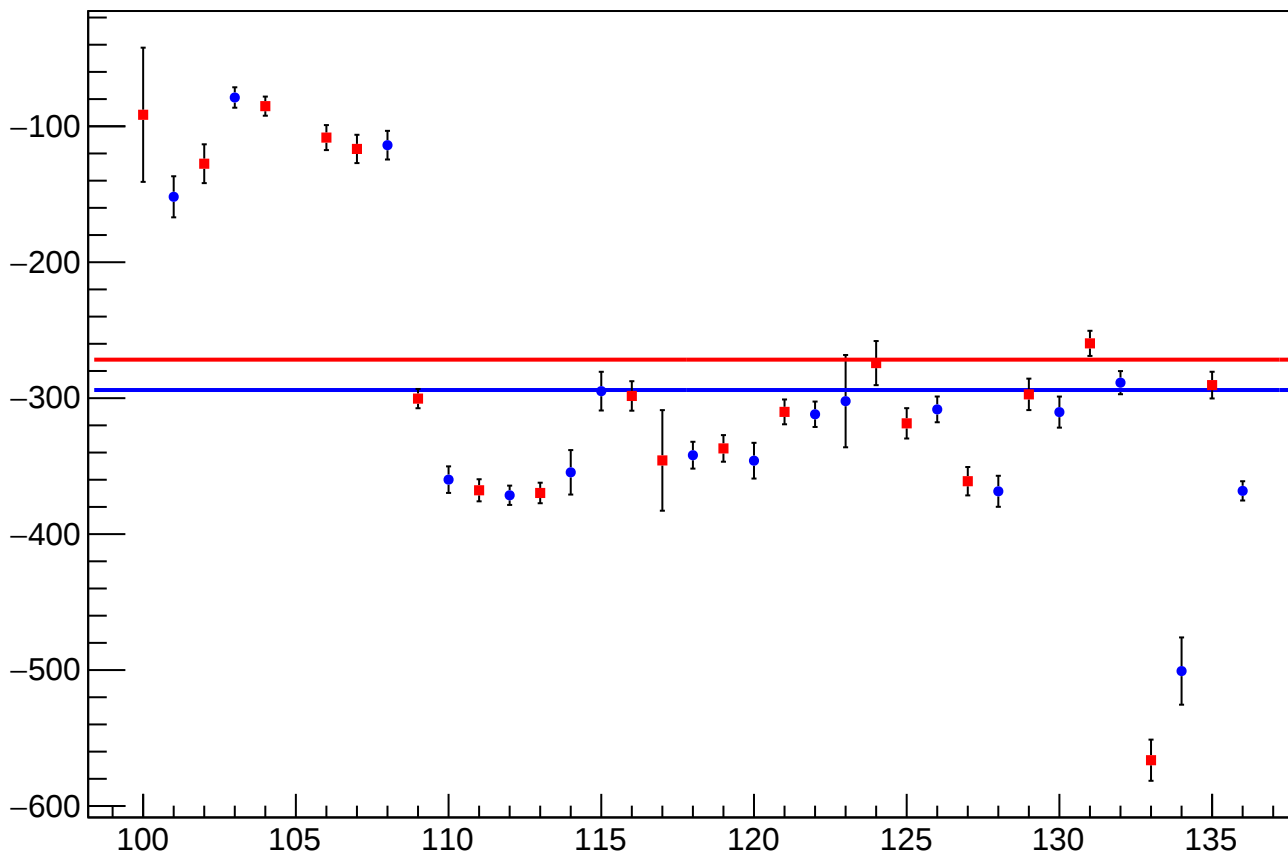
Right Out: 83.574+/-0.064  $\chi^2/\text{NDF}$ : 399952.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

103.436+/-0.071  $\chi^2/\text{NDF}$ : 272785.6/16

83.574+/-0.064  $\chi^2/\text{NDF}$ : 399952.9/18

# reg\_asym\_atr\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -293.996+/-2.498  $\chi^2/\text{NDF}$ : 1648.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

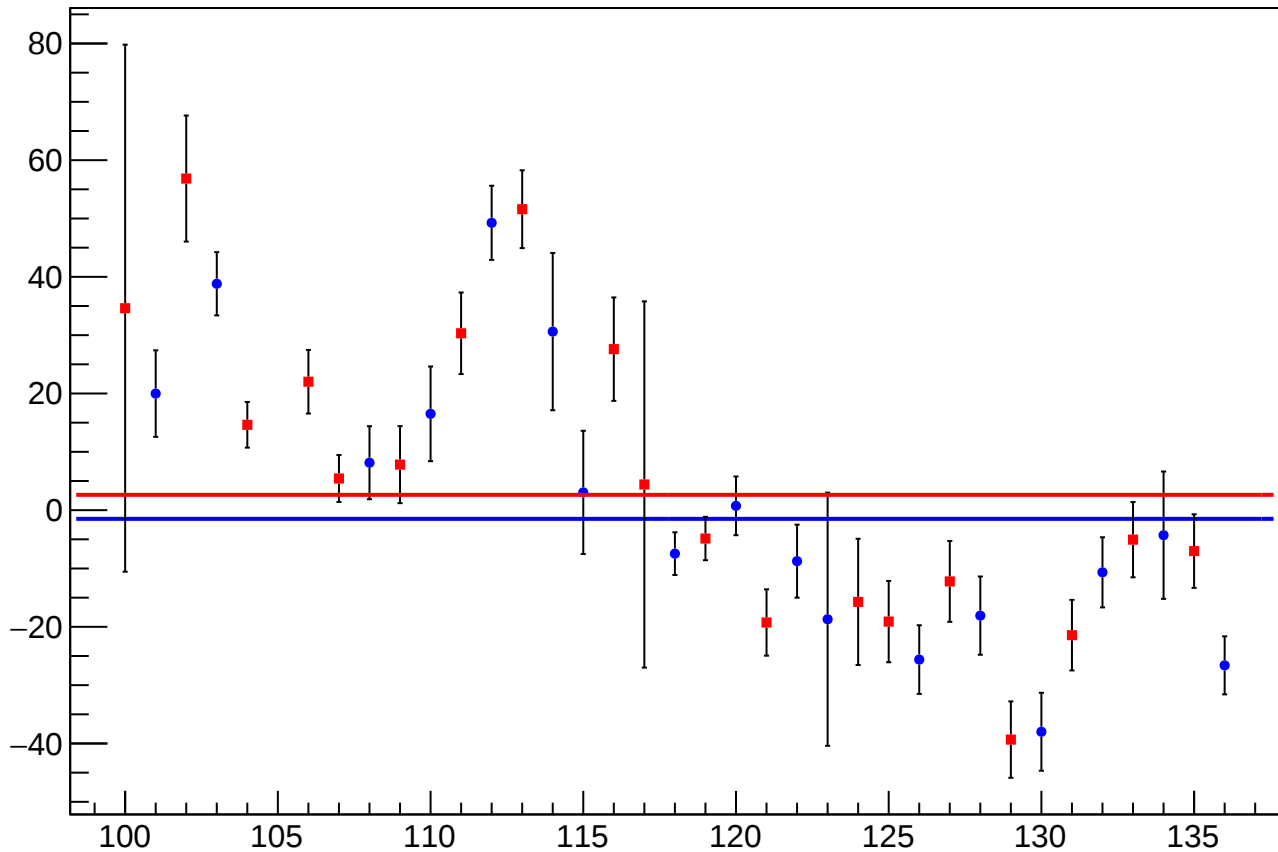
Right Out: -271.664+/-2.320  $\chi^2/\text{NDF}$ : 2231.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-293.996+/-2.498  $\chi^2/\text{NDF}$ : 1648.7/16

-271.664+/-2.320  $\chi^2/\text{NDF}$ : 2231.7/18

# reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -1.490+/-1.536  $\chi^2/\text{NDF}$ : 226.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

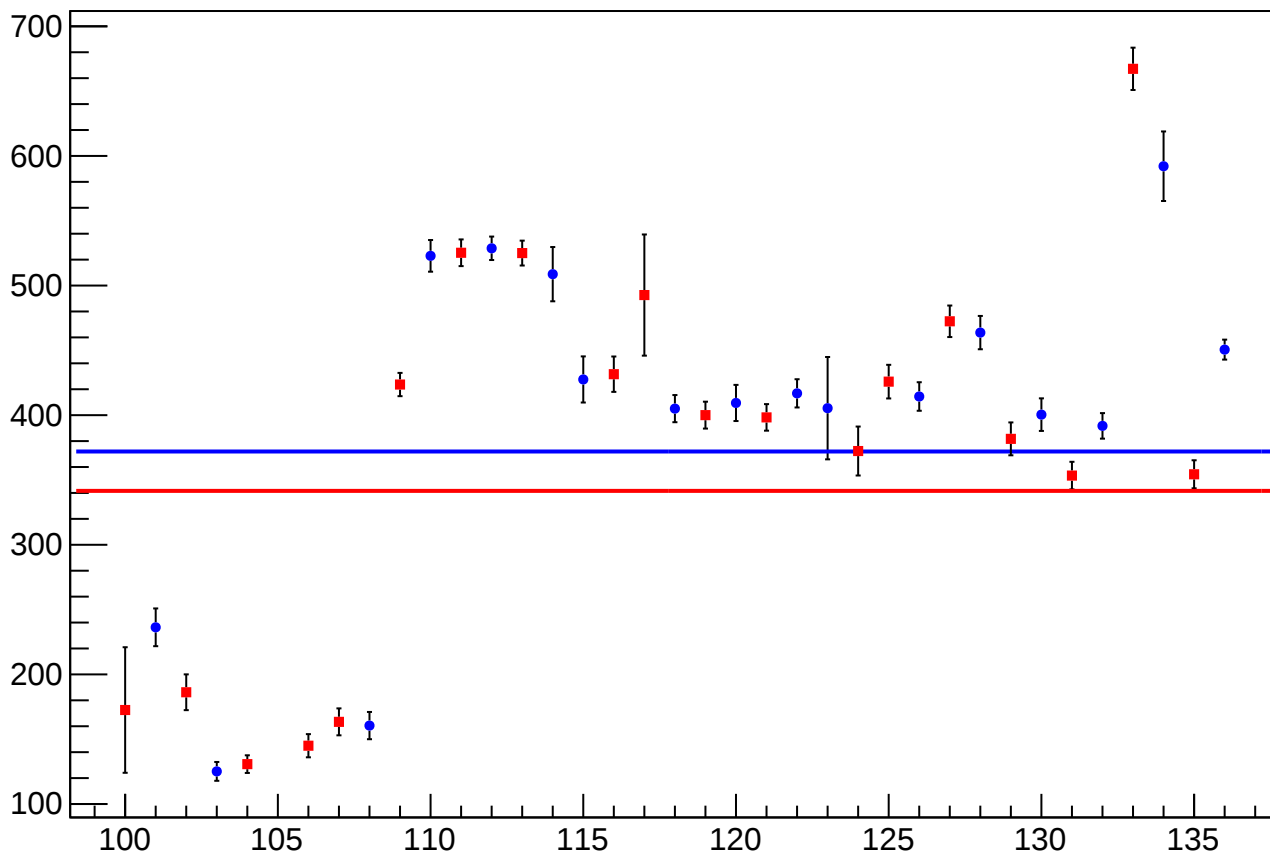
Right Out: 2.630+/-1.411  $\chi^2/\text{NDF}$ : 223.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.490+/-1.536  $\chi^2/\text{NDF}$ : 226.0/16

2.630+/-1.411  $\chi^2/\text{NDF}$ : 223.1/18

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 371.975+/-2.778  $\chi^2/\text{NDF}$ : 2432.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

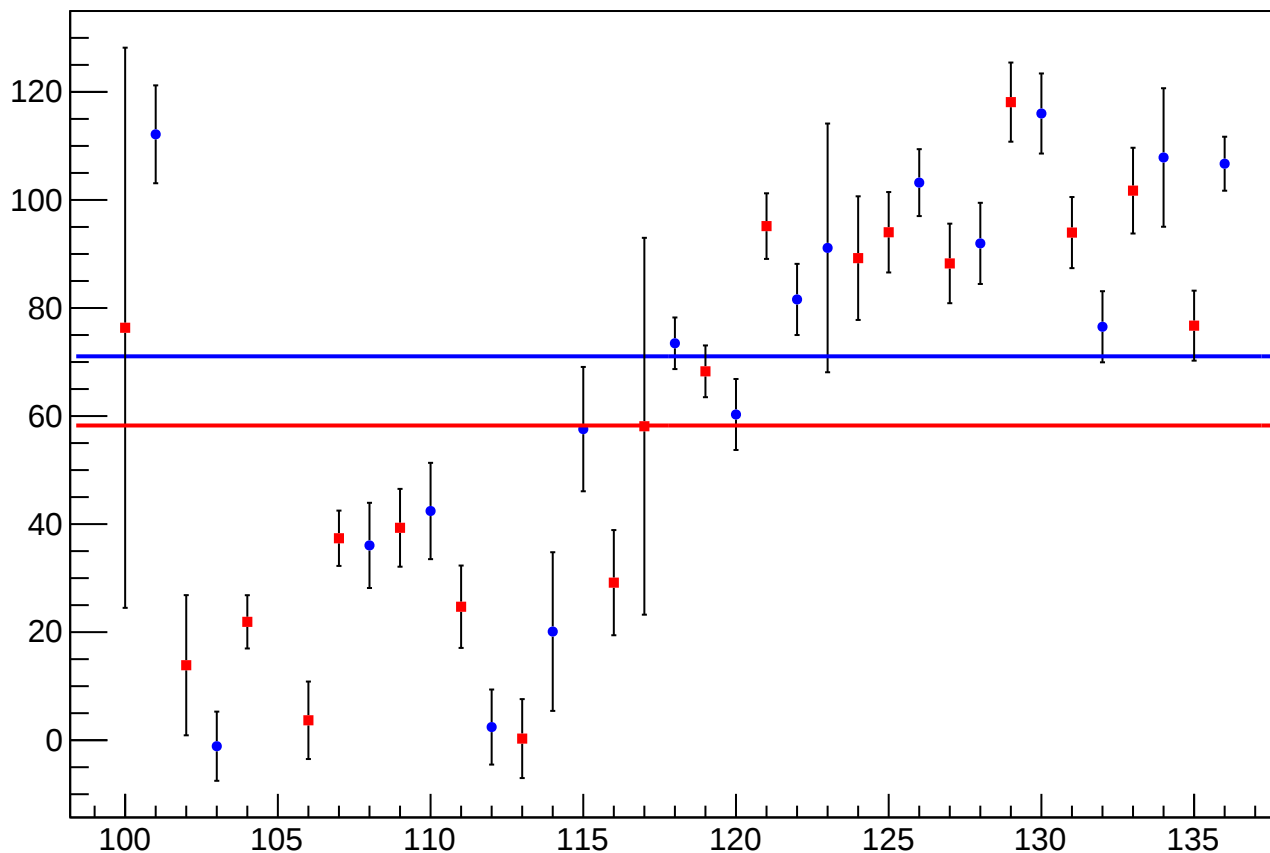
Right Out: 341.590+/-2.589  $\chi^2/\text{NDF}$ : 3328.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

371.975+/-2.778  $\chi^2/\text{NDF}$ : 2432.6/16

341.590+/-2.589  $\chi^2/\text{NDF}$ : 3328.6/18

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 71.056+/-1.764  $\chi^2/\text{NDF}$ : 426.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

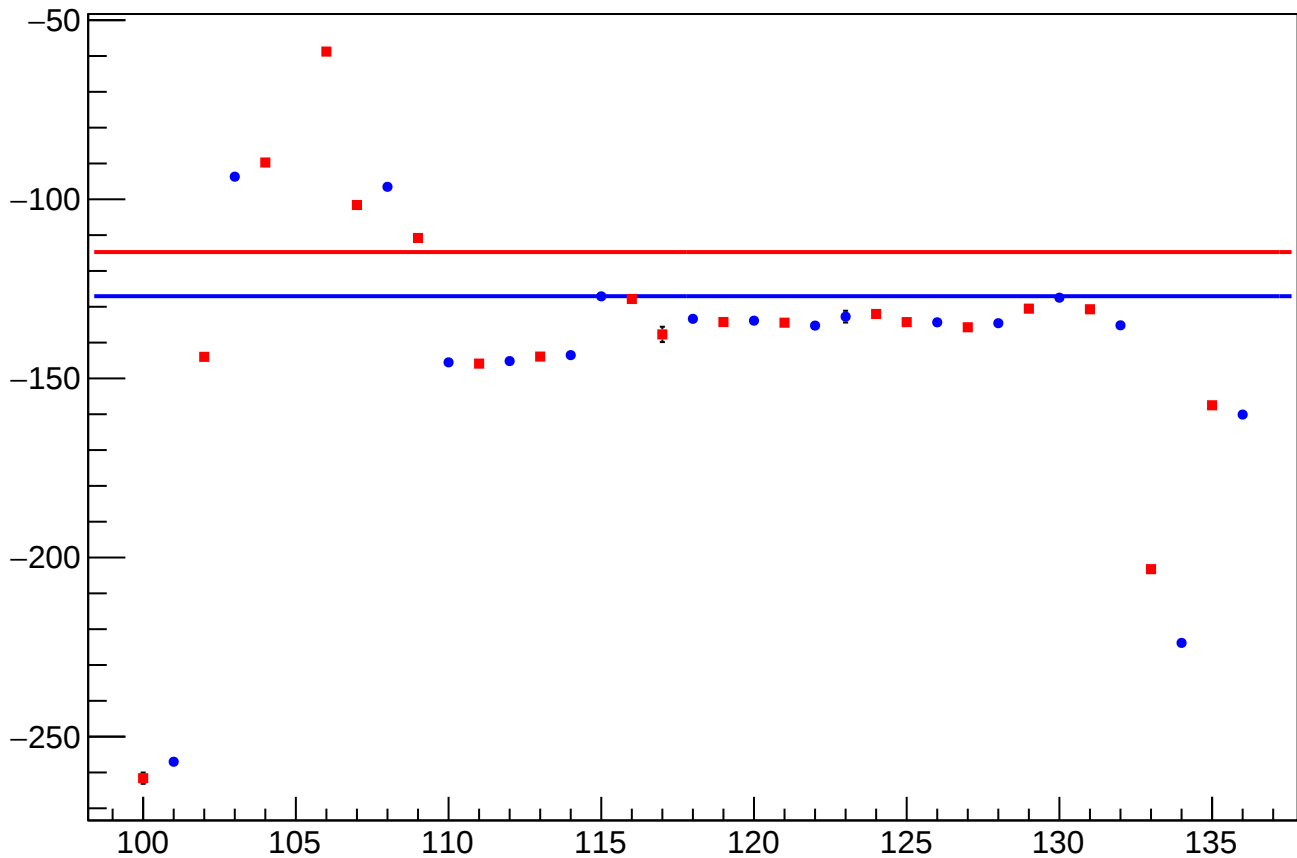
Right Out: 58.252+/-1.649  $\chi^2/\text{NDF}$ : 461.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

71.056+/-1.764  $\chi^2/\text{NDF}$ : 426.2/16

58.252+/-1.649  $\chi^2/\text{NDF}$ : 461.5/18

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -127.049+/-0.090  $\chi^2/\text{NDF}$ : 167014.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

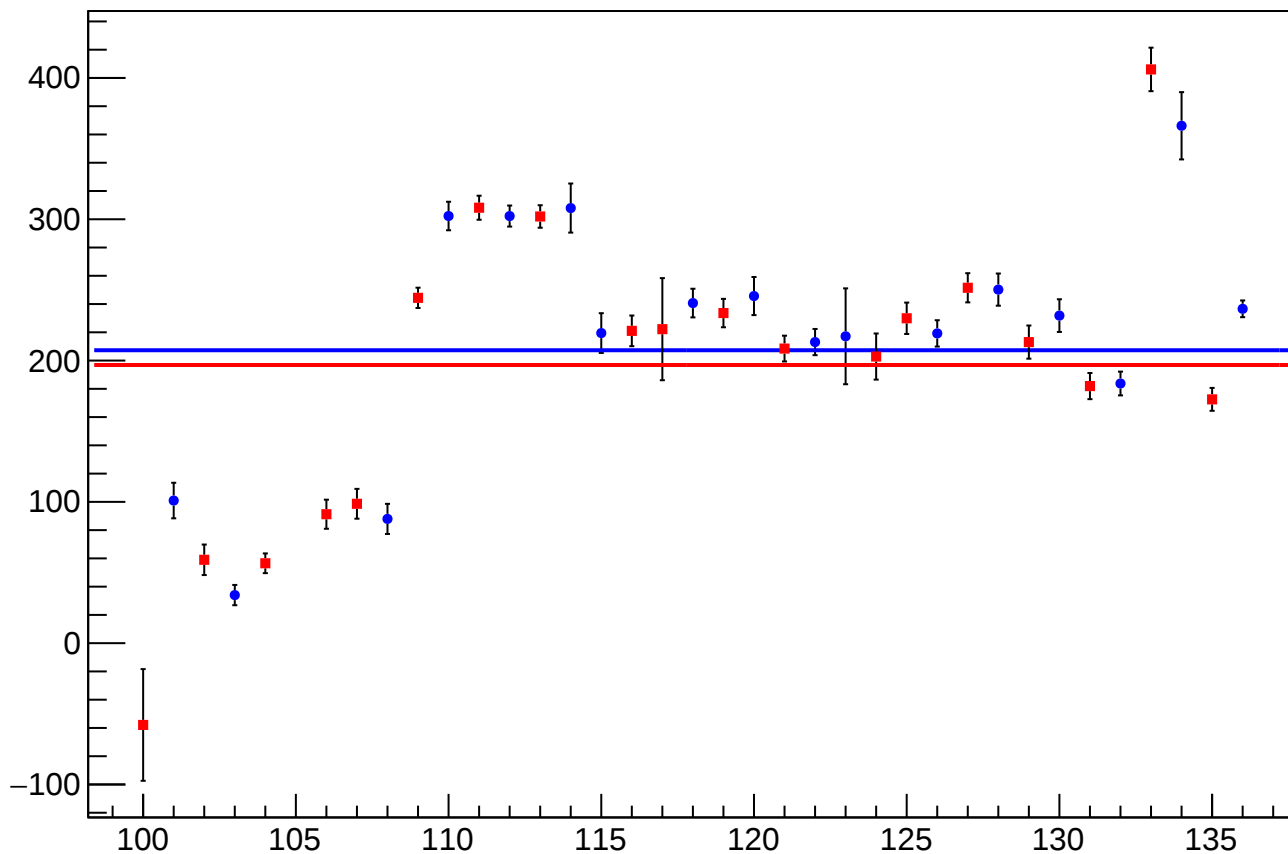
-127.049+/-0.090  $\chi^2/\text{NDF}$ : 167014.4/16

Right Out: -114.729+/-0.084  $\chi^2/\text{NDF}$ : 156718.4/18

-114.729+/-0.084  $\chi^2/\text{NDF}$ : 156718.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: 207.310 $\pm$ 2.428  $\chi^2$ /NDF: 1181.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

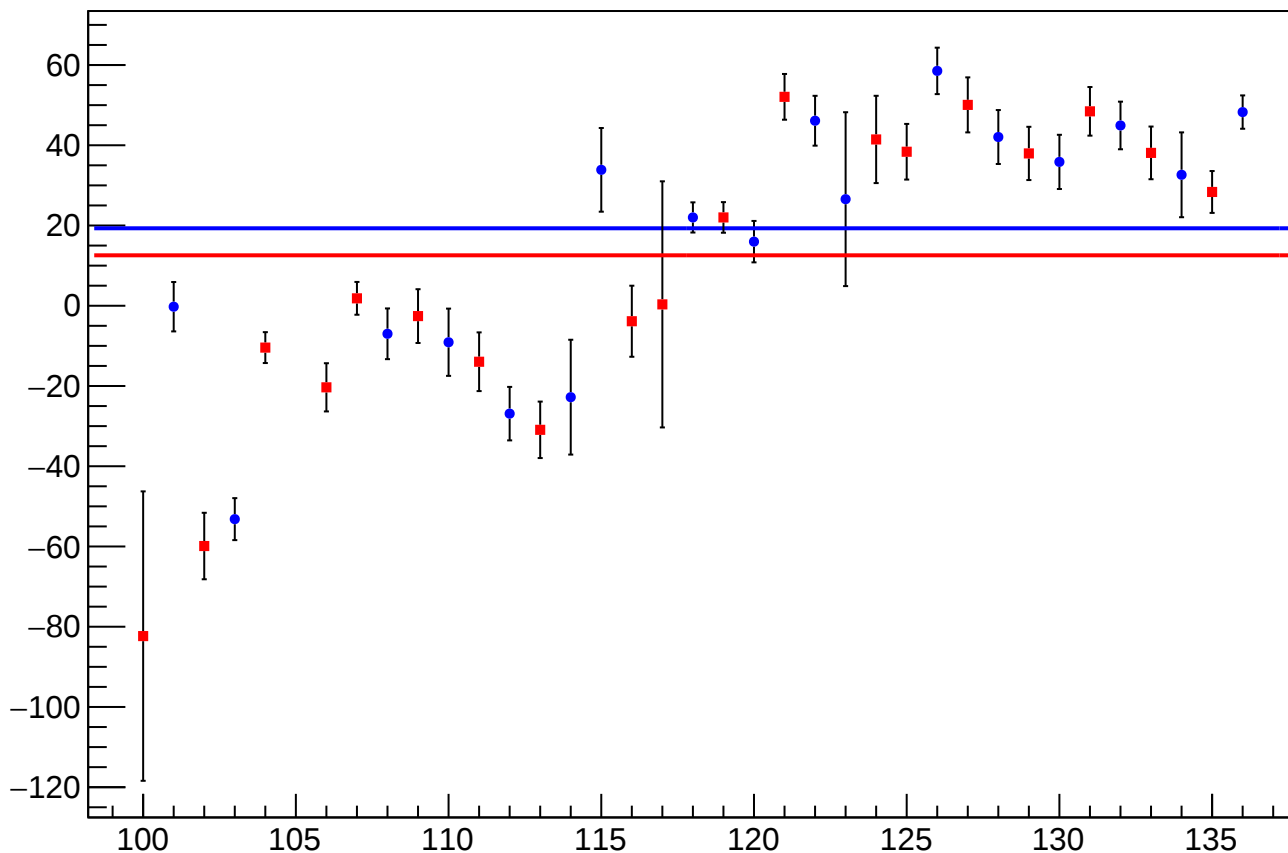
Right Out: 196.864 $\pm$ 2.307  $\chi^2$ /NDF: 1445.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

207.310 $\pm$ 2.428  $\chi^2$ /NDF: 1181.6/16

196.864 $\pm$ 2.307  $\chi^2$ /NDF: 1445.6/18

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 19.308+/-1.500  $\chi^2$ /NDF: 441.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

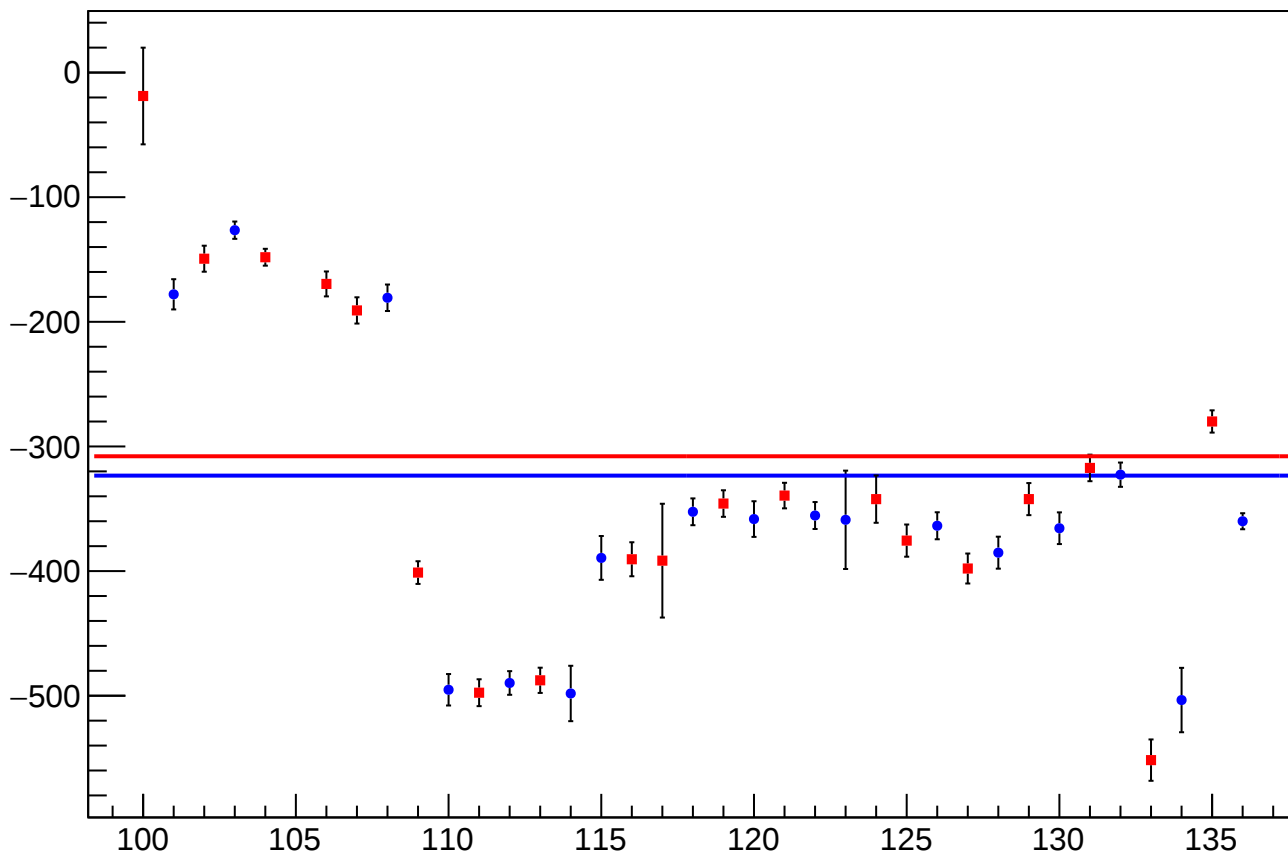
Right Out: 12.572+/-1.407  $\chi^2$ /NDF: 395.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

19.308+/-1.500  $\chi^2$ /NDF: 441.3/16

12.572+/-1.407  $\chi^2$ /NDF: 395.0/18

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -323.402+/-2.684  $\chi^2/\text{NDF}$ : 1849.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

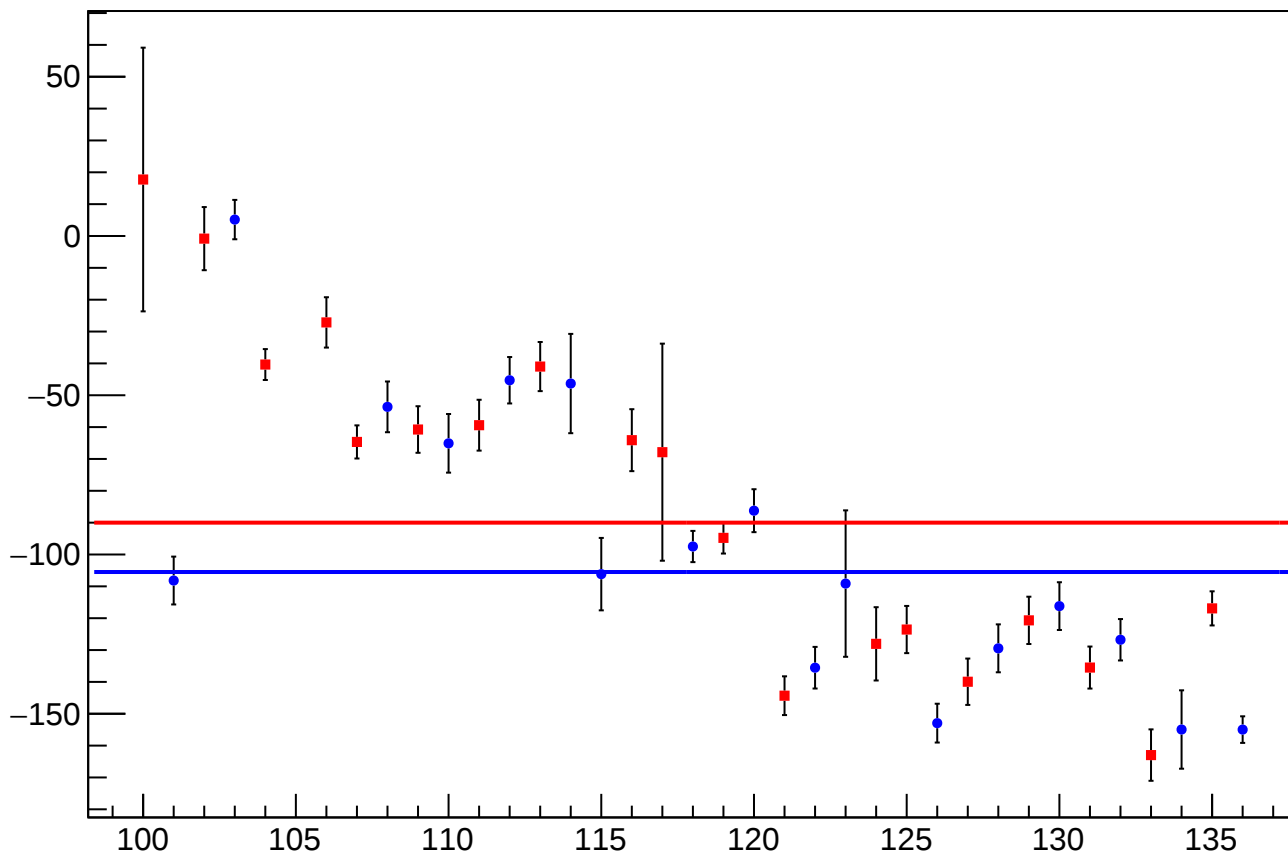
Right Out: -307.876+/-2.564  $\chi^2/\text{NDF}$ : 2272.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-323.402+/-2.684  $\chi^2/\text{NDF}$ : 1849.6/16

-307.876+/-2.564  $\chi^2/\text{NDF}$ : 2272.0/18

# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -105.496+/-1.712  $\chi^2$ /NDF: 737.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

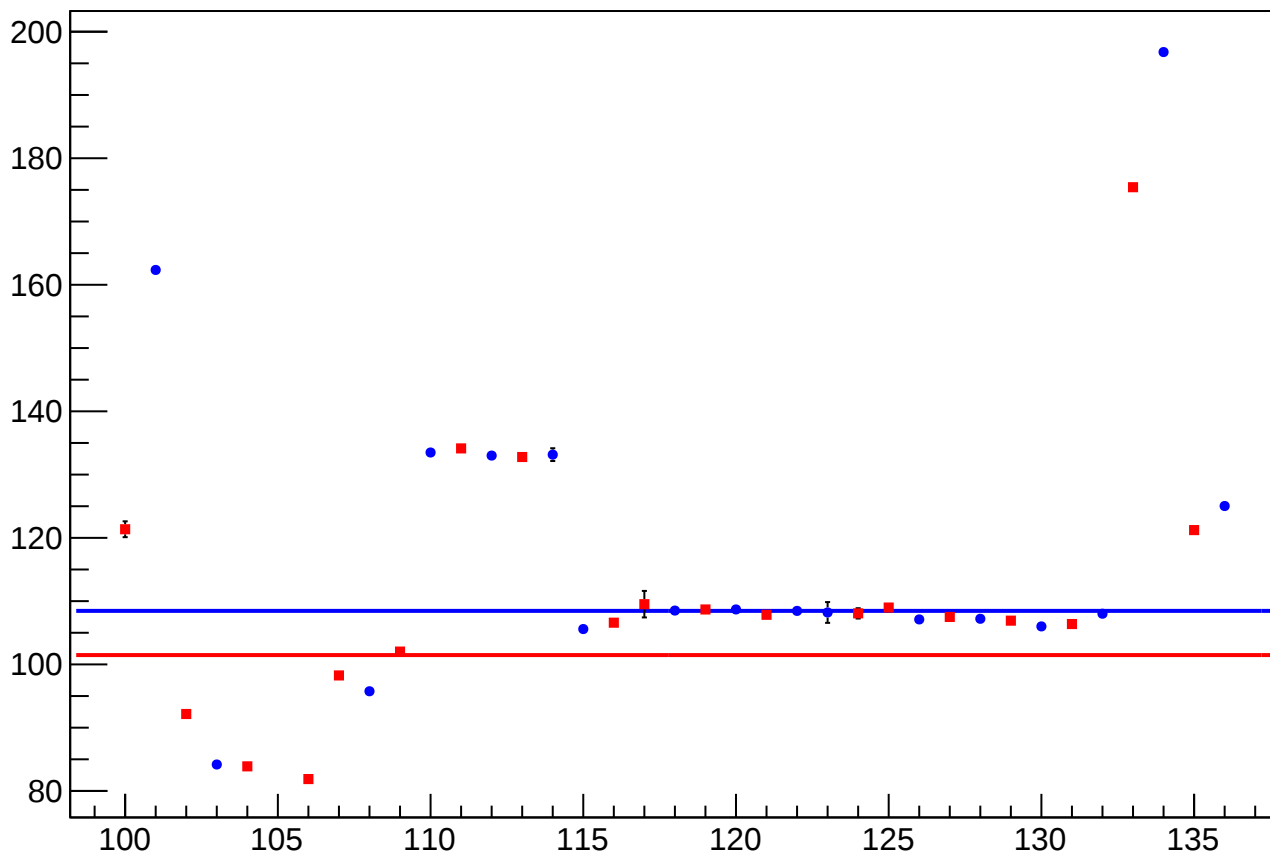
Right Out: -89.999+/-1.637  $\chi^2$ /NDF: 689.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-105.496+/-1.712  $\chi^2$ /NDF: 737.3/16

-89.999+/-1.637  $\chi^2$ /NDF: 689.0/18

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 108.460+/-0.085  $\chi^2/\text{NDF}$ : 73301.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

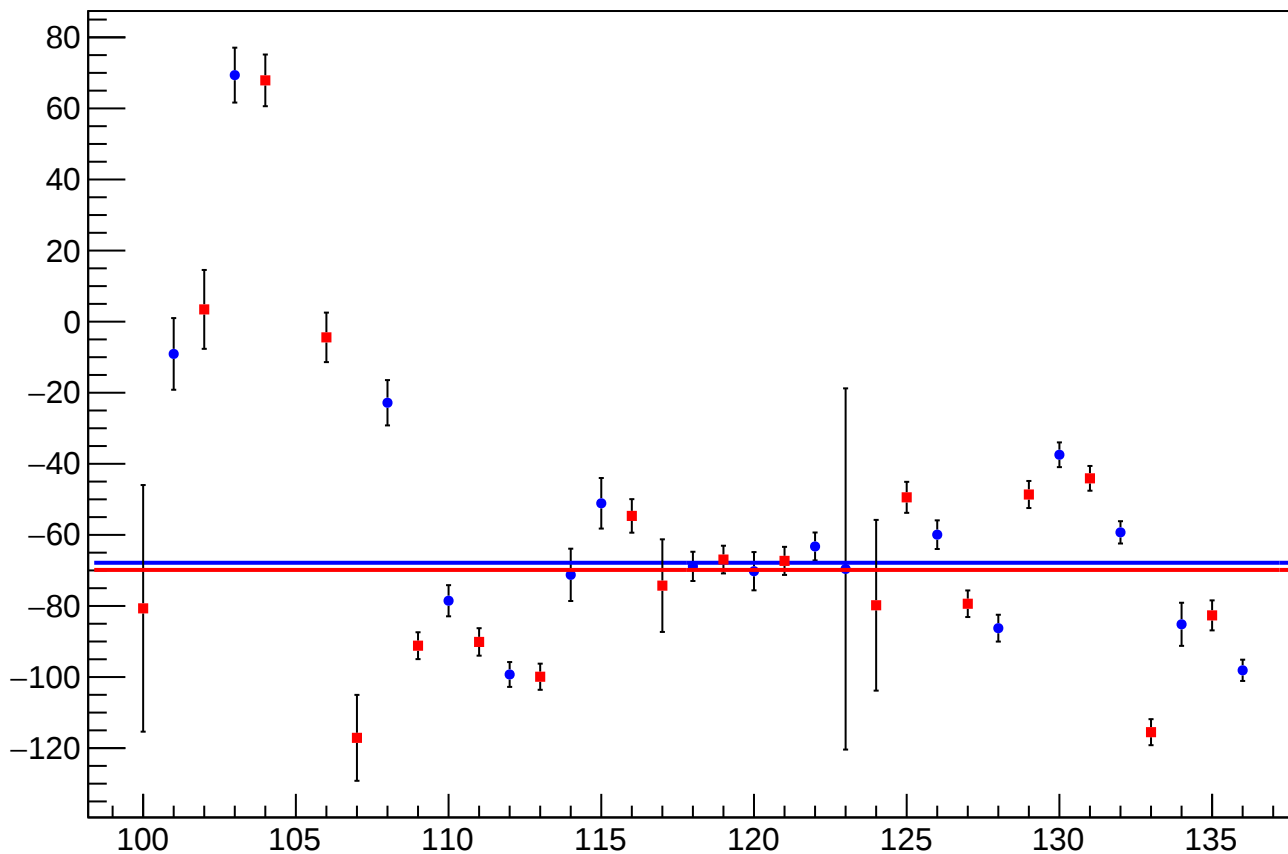
Right Out: 101.475+/-0.081  $\chi^2/\text{NDF}$ : 49479.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

108.460+/-0.085  $\chi^2/\text{NDF}$ : 73301.9/16

101.475+/-0.081  $\chi^2/\text{NDF}$ : 49479.1/18

# reg\_asym\_at1\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -67.844+/-1.093  $\chi^2/\text{NDF}$ : 715.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

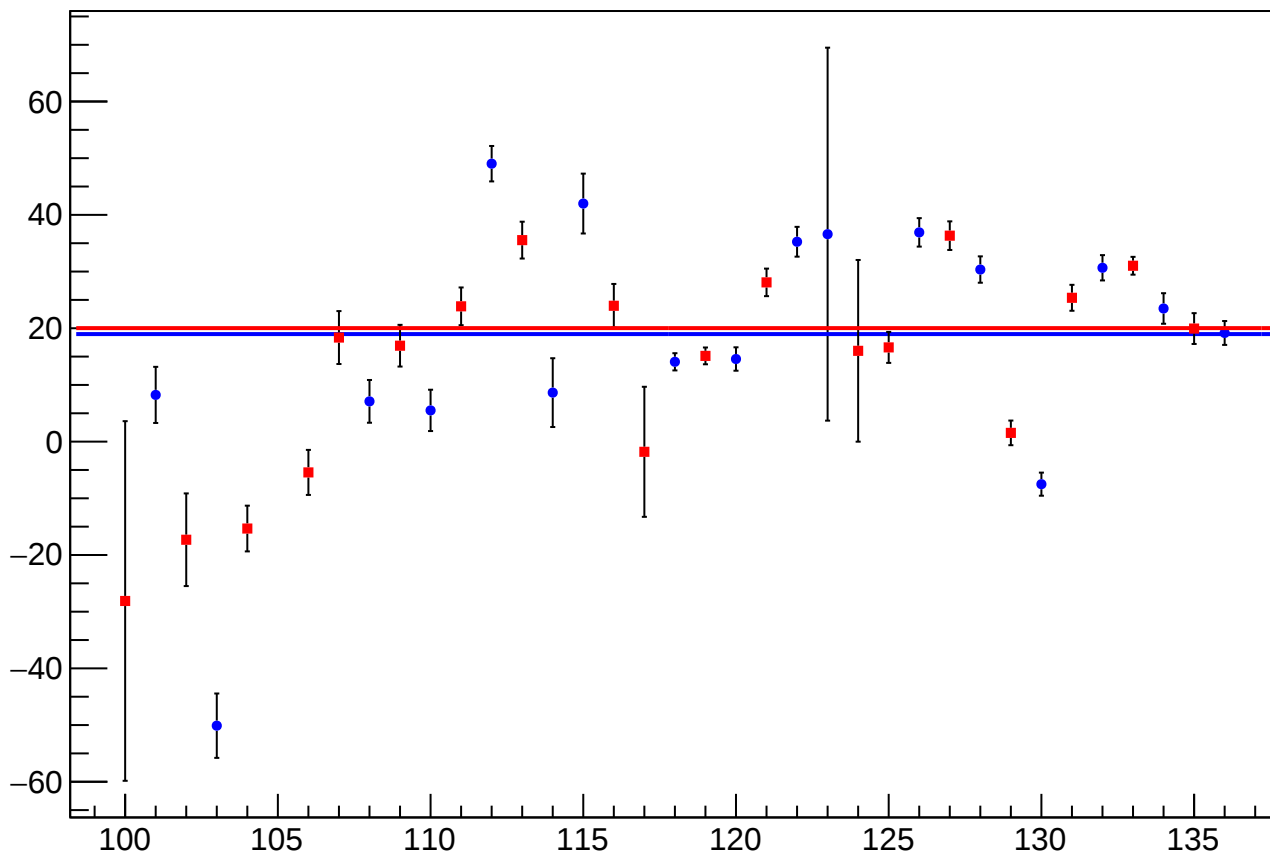
Right Out: -69.860+/-1.082  $\chi^2/\text{NDF}$ : 922.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-67.844+/-1.093  $\chi^2/\text{NDF}$ : 715.4/16

-69.860+/-1.082  $\chi^2/\text{NDF}$ : 922.5/18

# reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 18.970+/-0.653  $\chi^2/\text{NDF}$ : 618.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

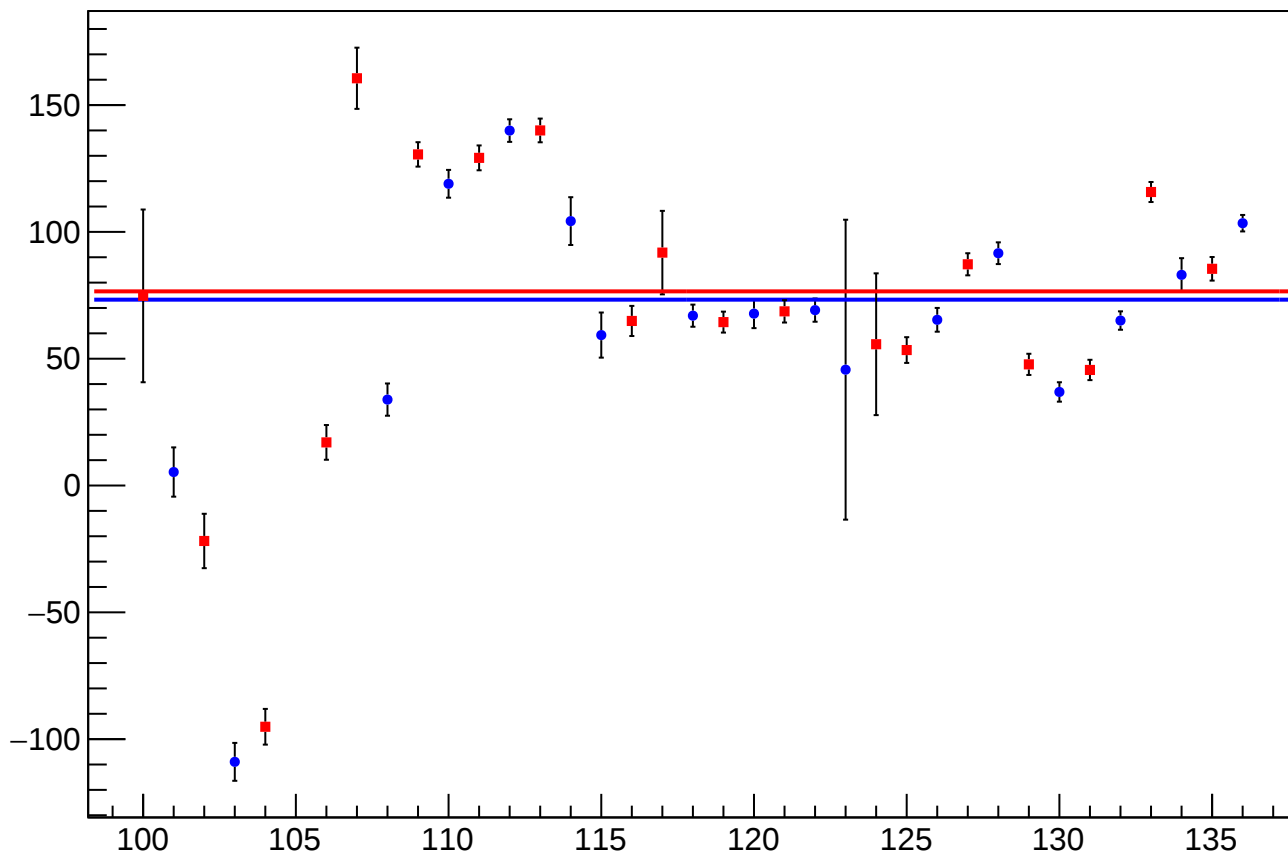
Right Out: 20.022+/-0.648  $\chi^2/\text{NDF}$ : 362.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

18.970+/-0.653  $\chi^2/\text{NDF}$ : 618.4/16

20.022+/-0.648  $\chi^2/\text{NDF}$ : 362.8/18

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 73.278+/-1.236  $\chi^2$ /NDF: 1198.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

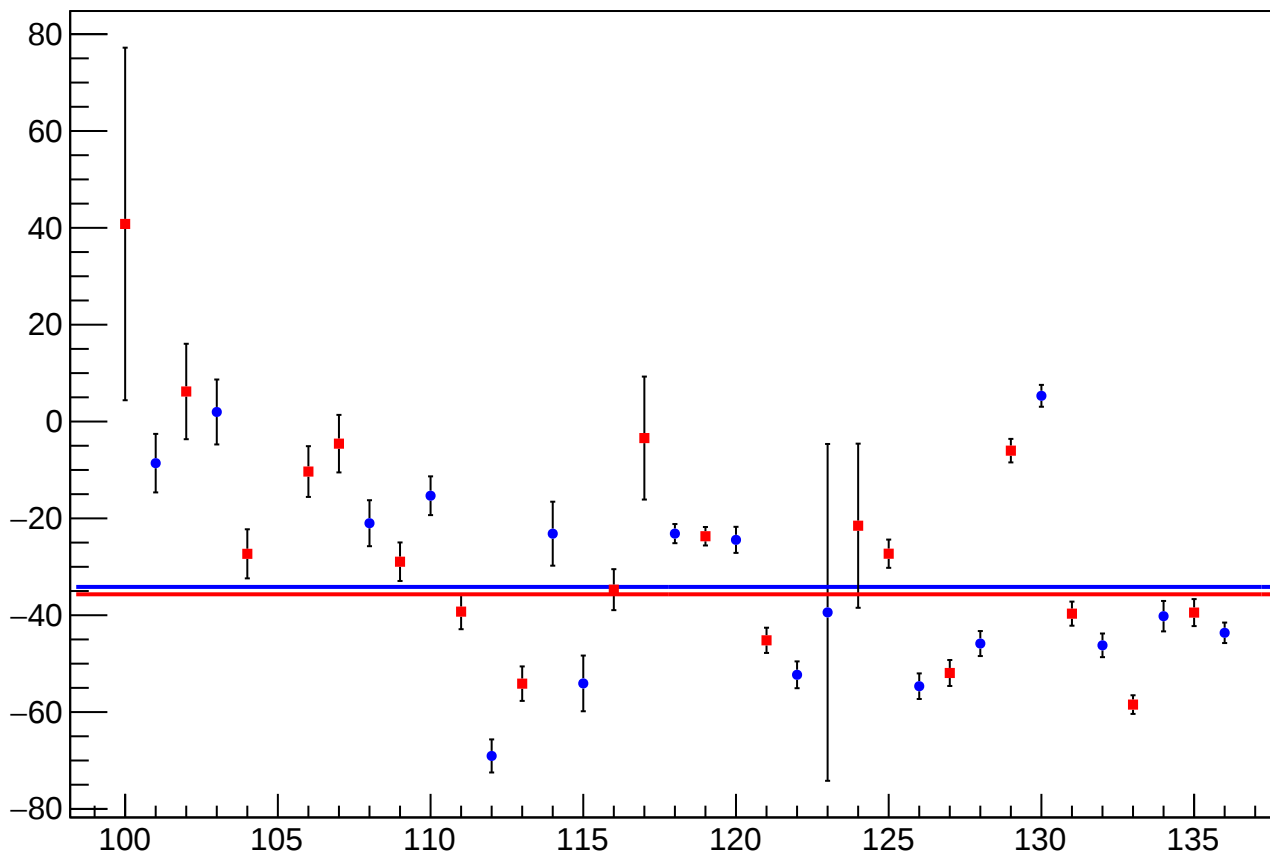
Right Out: 76.551+/-1.237  $\chi^2$ /NDF: 1481.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

73.278+/-1.236  $\chi^2$ /NDF: 1198.6/16

76.551+/-1.237  $\chi^2$ /NDF: 1481.7/18

# reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-34.153 \pm 0.745$   $\chi^2/\text{NDF}$ : 717.5/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

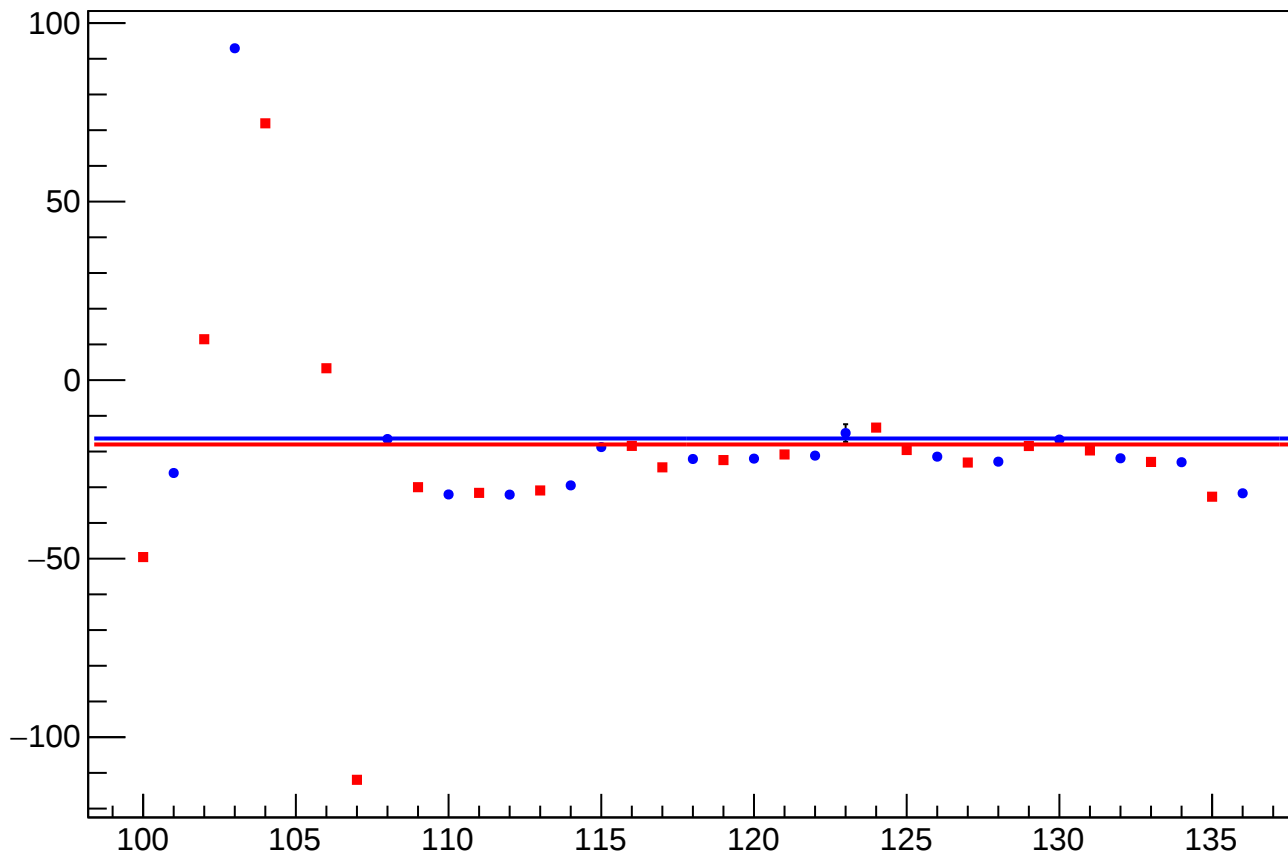
Right Out:  $-35.678 \pm 0.744$   $\chi^2/\text{NDF}$ : 505.1/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-34.153 \pm 0.745$   $\chi^2/\text{NDF}$ : 717.5/16

$-35.678 \pm 0.744$   $\chi^2/\text{NDF}$ : 505.1/18

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-16.349 \pm 0.045$   $\chi^2/\text{NDF}: 474192.3/16$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

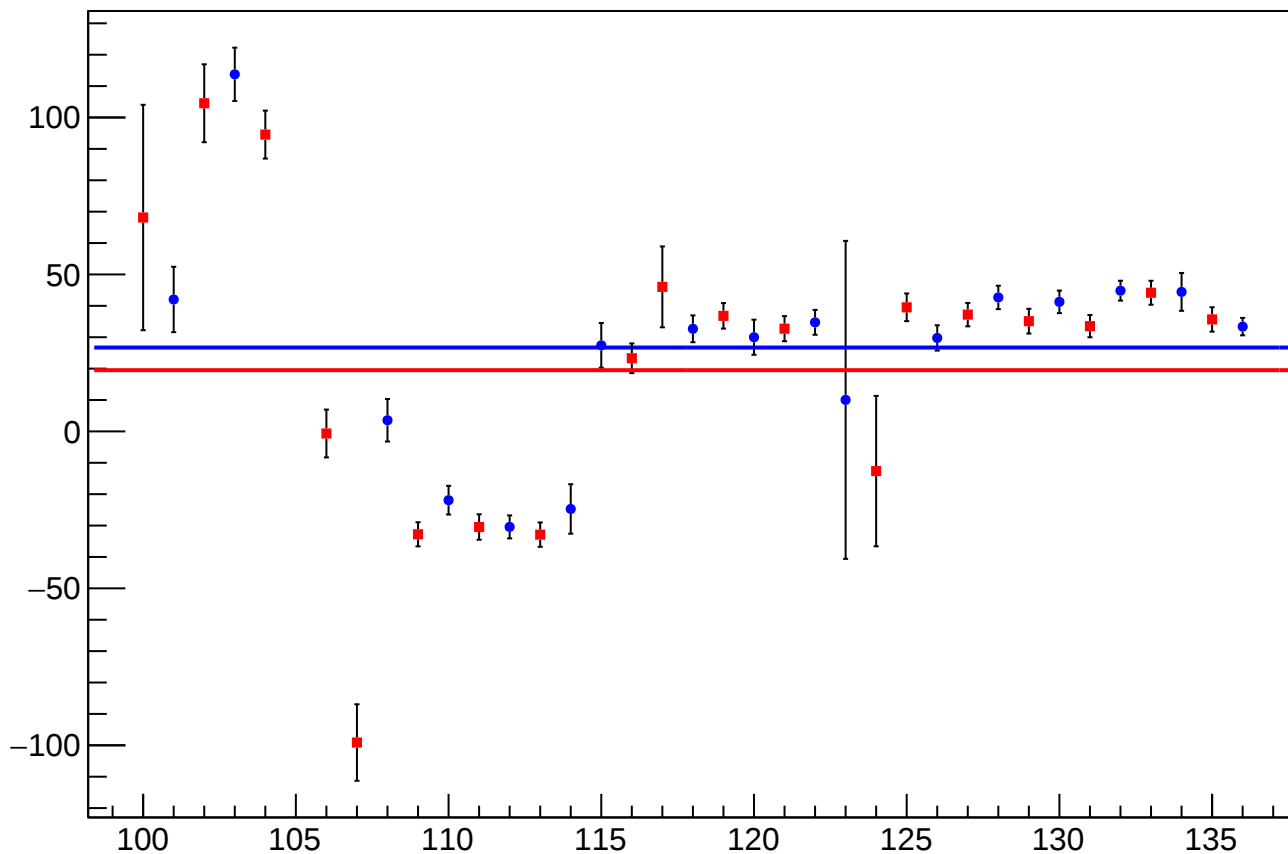
Right Out:  $-18.022 \pm 0.047$   $\chi^2/\text{NDF}: 427253.4/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-16.349 \pm 0.045$   $\chi^2/\text{NDF}: 474192.3/16$

$-18.022 \pm 0.047$   $\chi^2/\text{NDF}: 427253.4/18$

# reg\_asym\_at1\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: 26.715+/-1.103  $\chi^2$ /NDF: 607.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

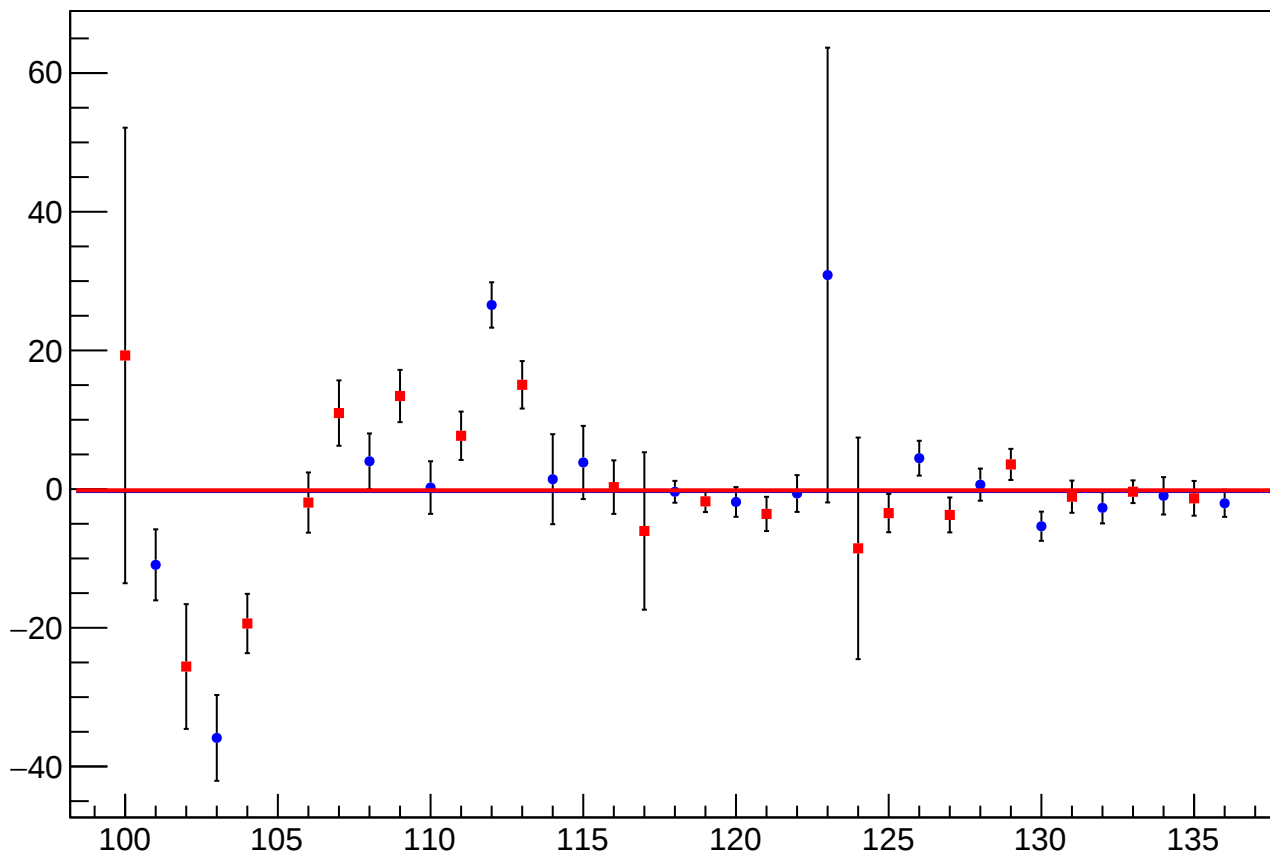
Right Out: 19.505+/-1.103  $\chi^2$ /NDF: 936.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

26.715+/-1.103  $\chi^2$ /NDF: 607.6/16

19.505+/-1.103  $\chi^2$ /NDF: 936.3/18

# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -0.280+/-0.662  $\chi^2/\text{NDF}$ : 119.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

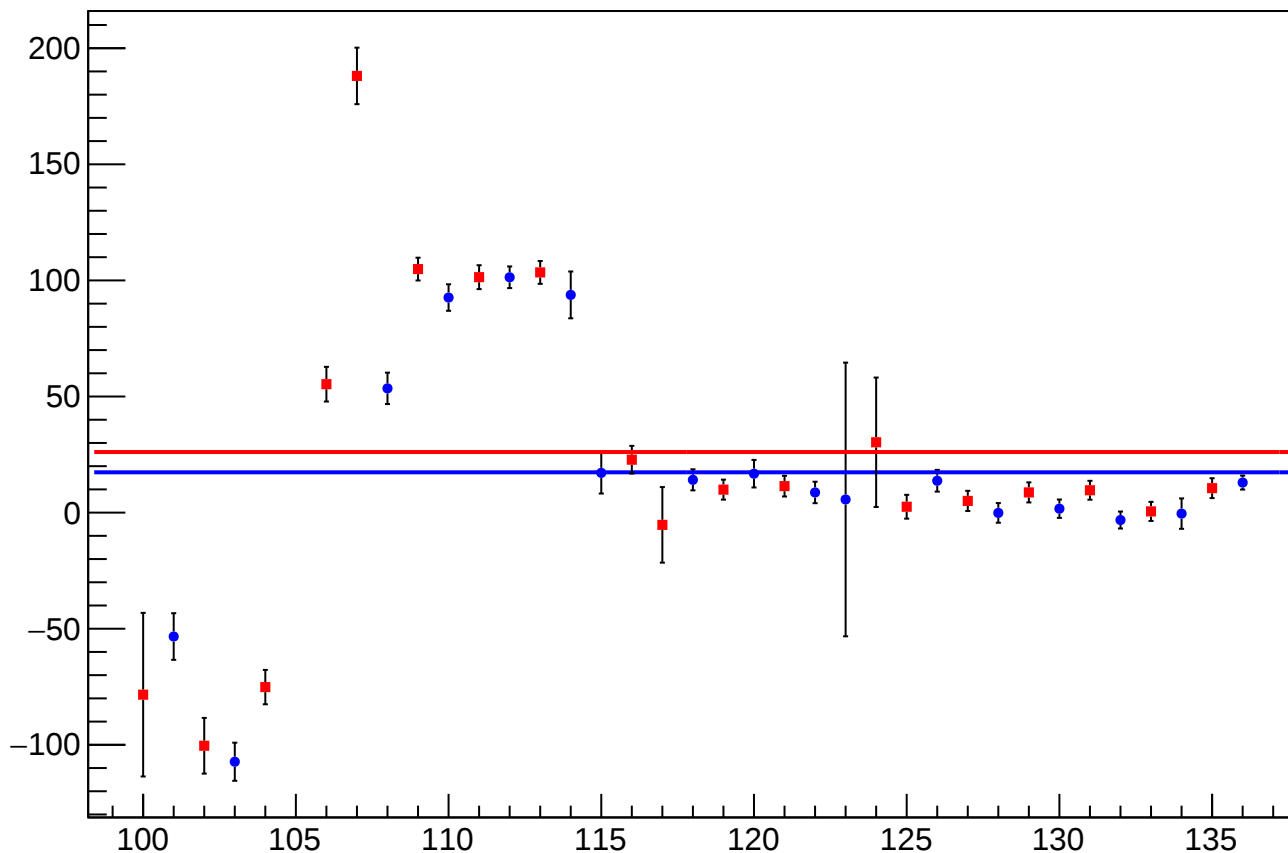
Right Out: -0.171+/-0.664  $\chi^2/\text{NDF}$ : 82.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.280+/-0.662  $\chi^2/\text{NDF}$ : 119.5/16

-0.171+/-0.664  $\chi^2/\text{NDF}$ : 82.2/18

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.361+/-1.247  $\chi^2/\text{NDF}$ : 943.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

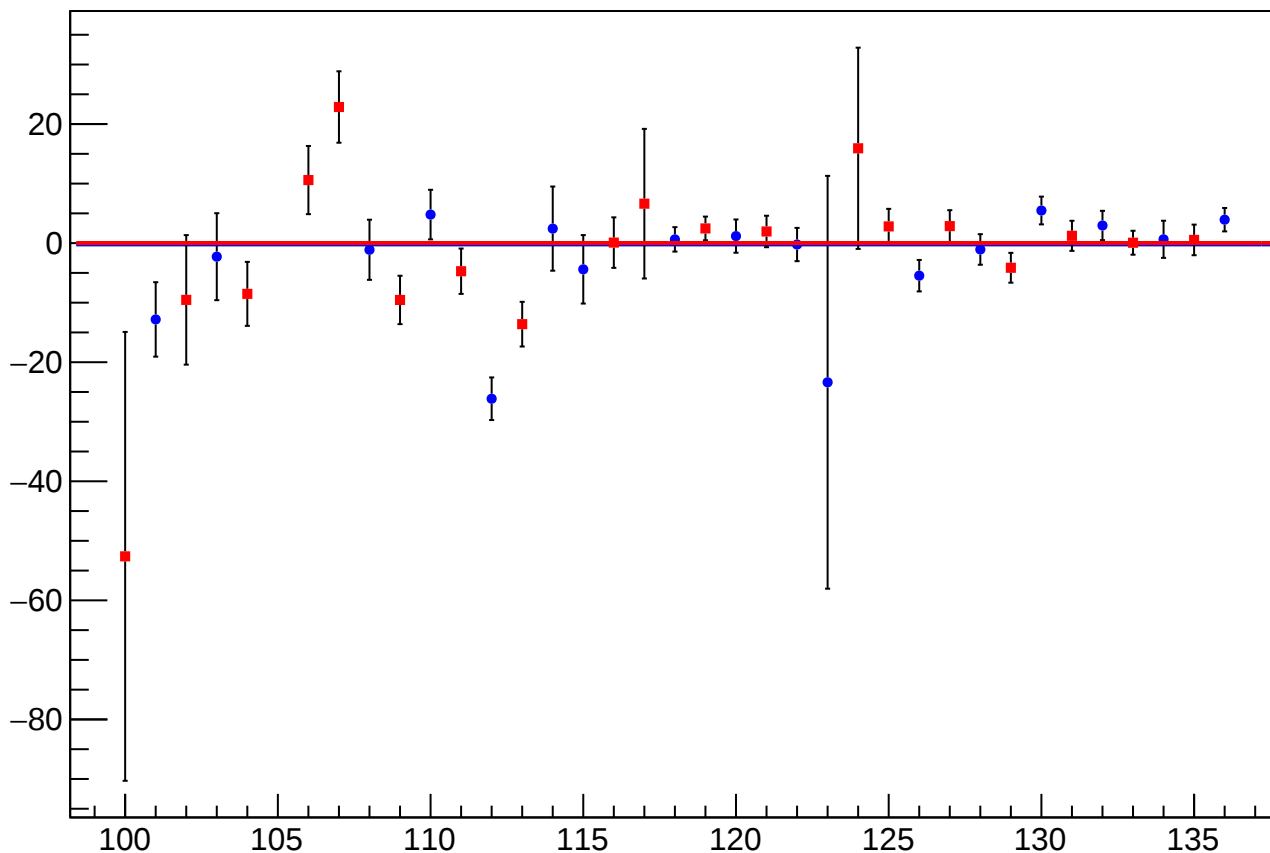
Right Out: 26.092+/-1.263  $\chi^2/\text{NDF}$ : 1377.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

17.361+/-1.247  $\chi^2/\text{NDF}$ : 943.0/16

26.092+/-1.263  $\chi^2/\text{NDF}$ : 1377.1/18

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.211 \pm 0.752$   $\chi^2/\text{NDF}$ : 75.9/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

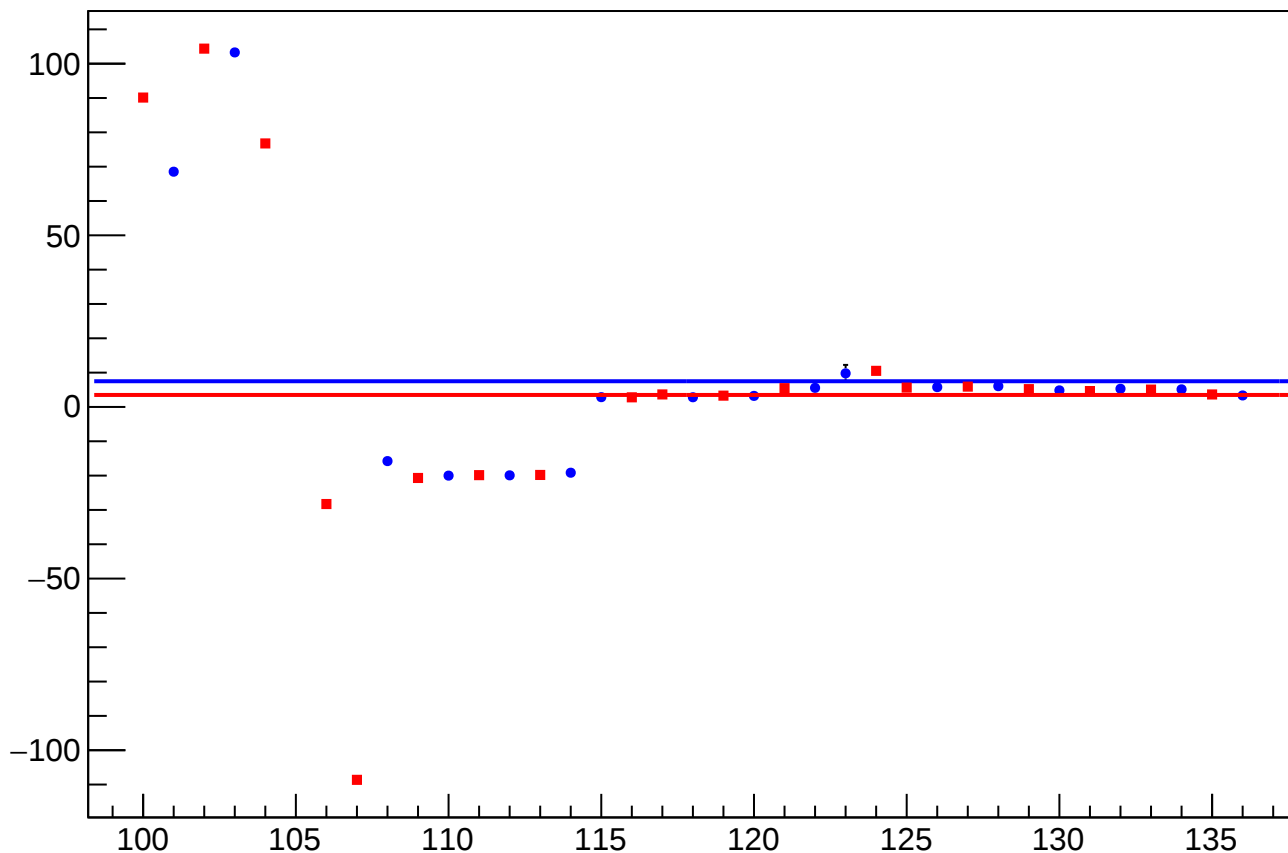
Right Out:  $0.023 \pm 0.760$   $\chi^2/\text{NDF}$ : 51.7/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.211 \pm 0.752$   $\chi^2/\text{NDF}$ : 75.9/16

$0.023 \pm 0.760$   $\chi^2/\text{NDF}$ : 51.7/18

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 7.492 $\pm$ 0.045  $\chi^2$ /NDF: 355979.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

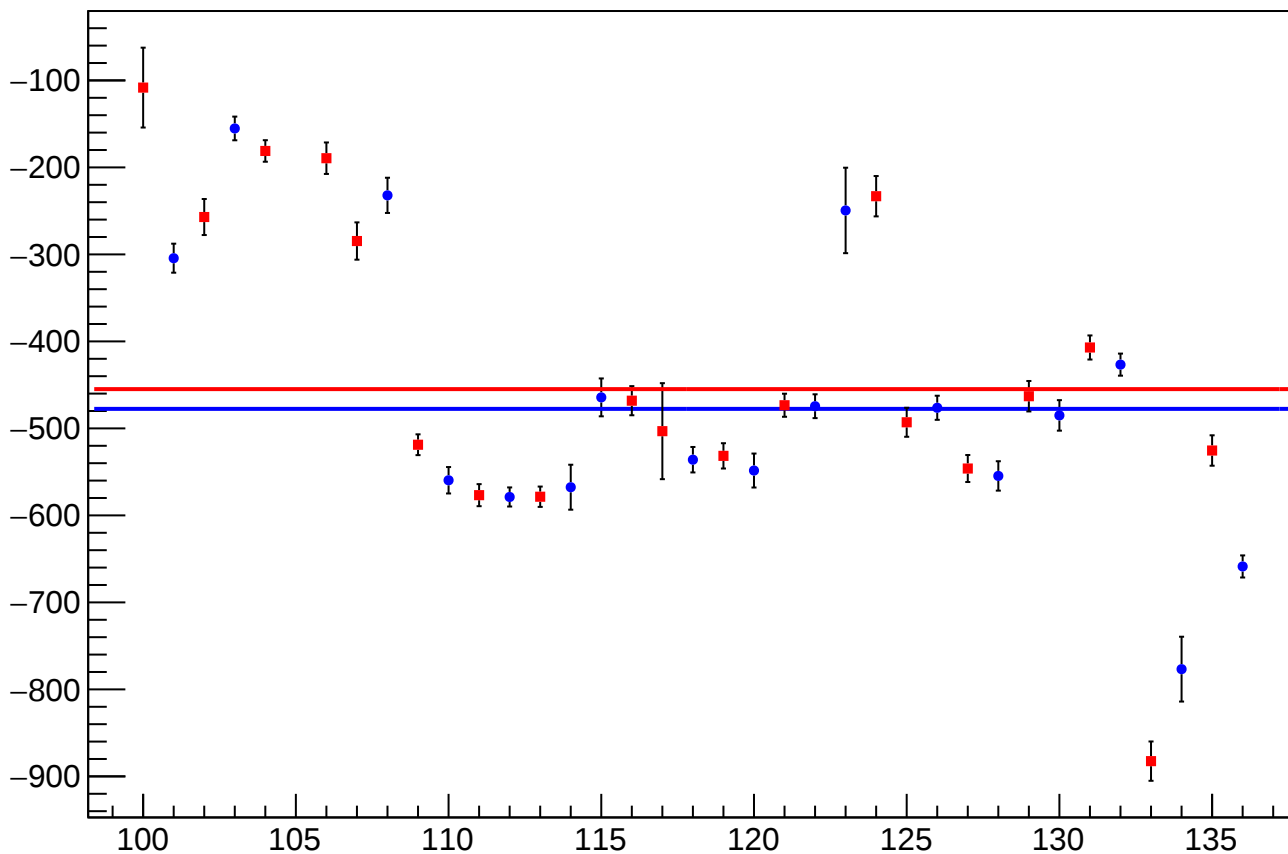
Right Out: 3.495 $\pm$ 0.047  $\chi^2$ /NDF: 510578.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7.492 $\pm$ 0.045  $\chi^2$ /NDF: 355979.0/16

3.495 $\pm$ 0.047  $\chi^2$ /NDF: 510578.9/18

# reg\_asym\_at2\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -477.563+/-3.898  $\chi^2/\text{NDF}$ : 1298.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

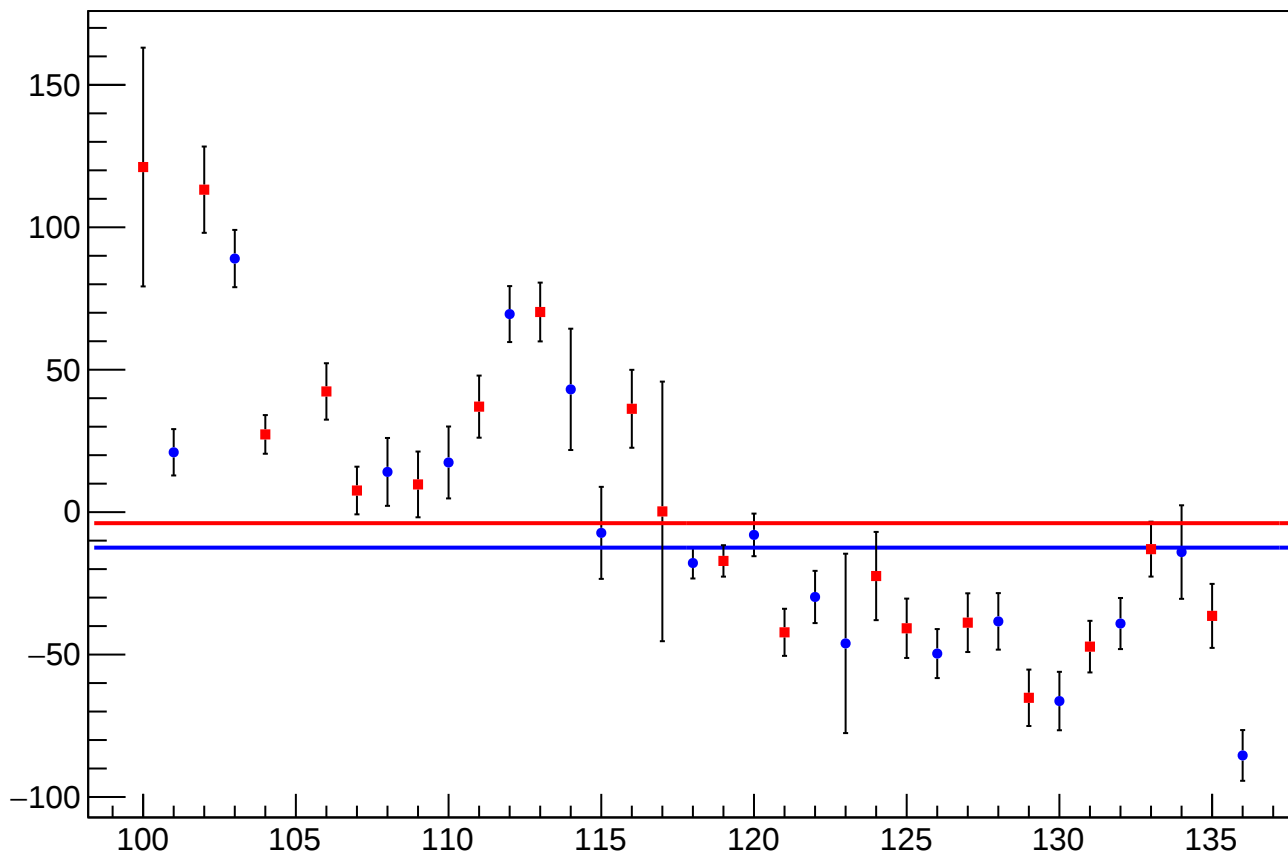
Right Out: -454.852+/-3.707  $\chi^2/\text{NDF}$ : 1697.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-477.563+/-3.898  $\chi^2/\text{NDF}$ : 1298.4/16

-454.852+/-3.707  $\chi^2/\text{NDF}$ : 1697.9/18

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -12.458 $\pm$ 2.349  $\chi^2$ /NDF: 341.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

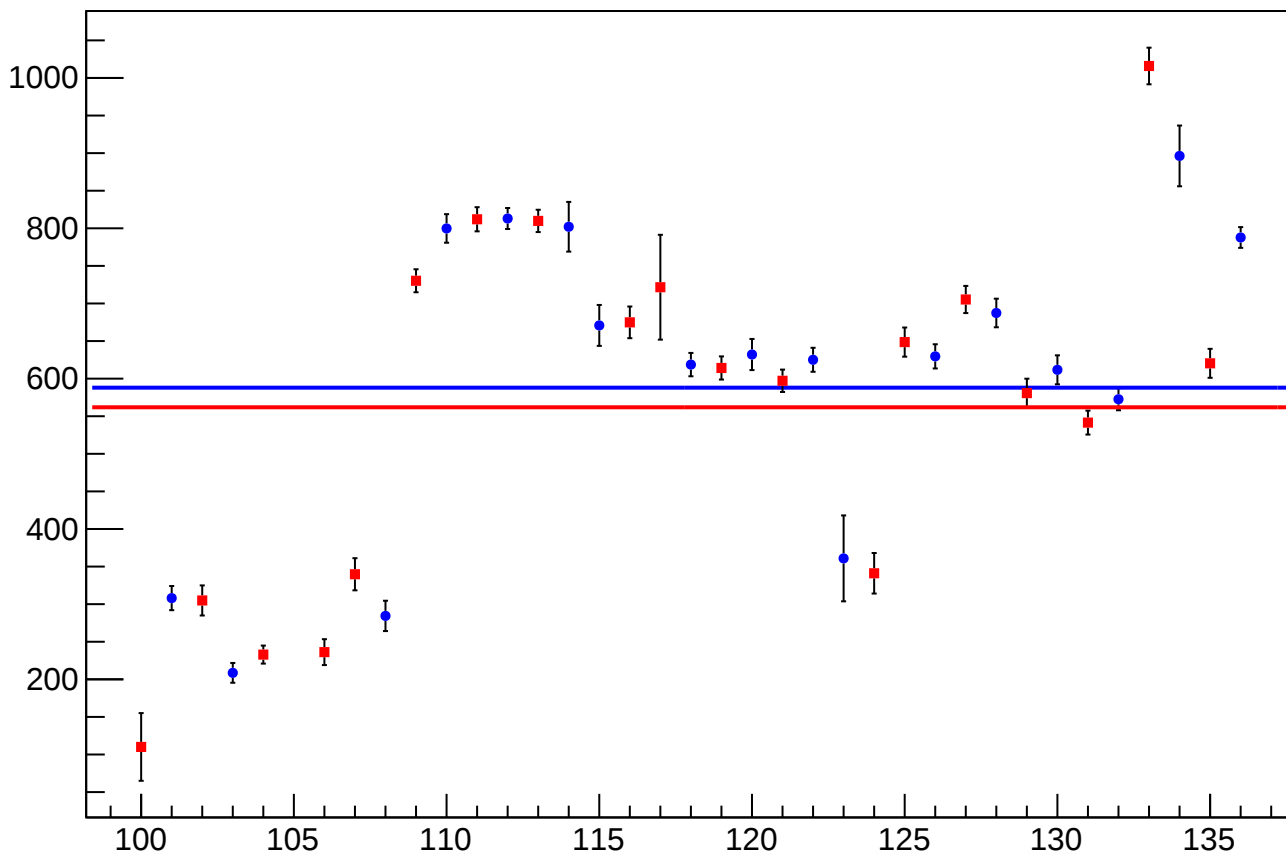
Right Out: -3.872 $\pm$ 2.272  $\chi^2$ /NDF: 312.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-12.458 $\pm$ 2.349  $\chi^2$ /NDF: 341.1/16

-3.872 $\pm$ 2.272  $\chi^2$ /NDF: 312.4/18

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 587.994+/-4.353  $\chi^2/\text{NDF}$ : 2129.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

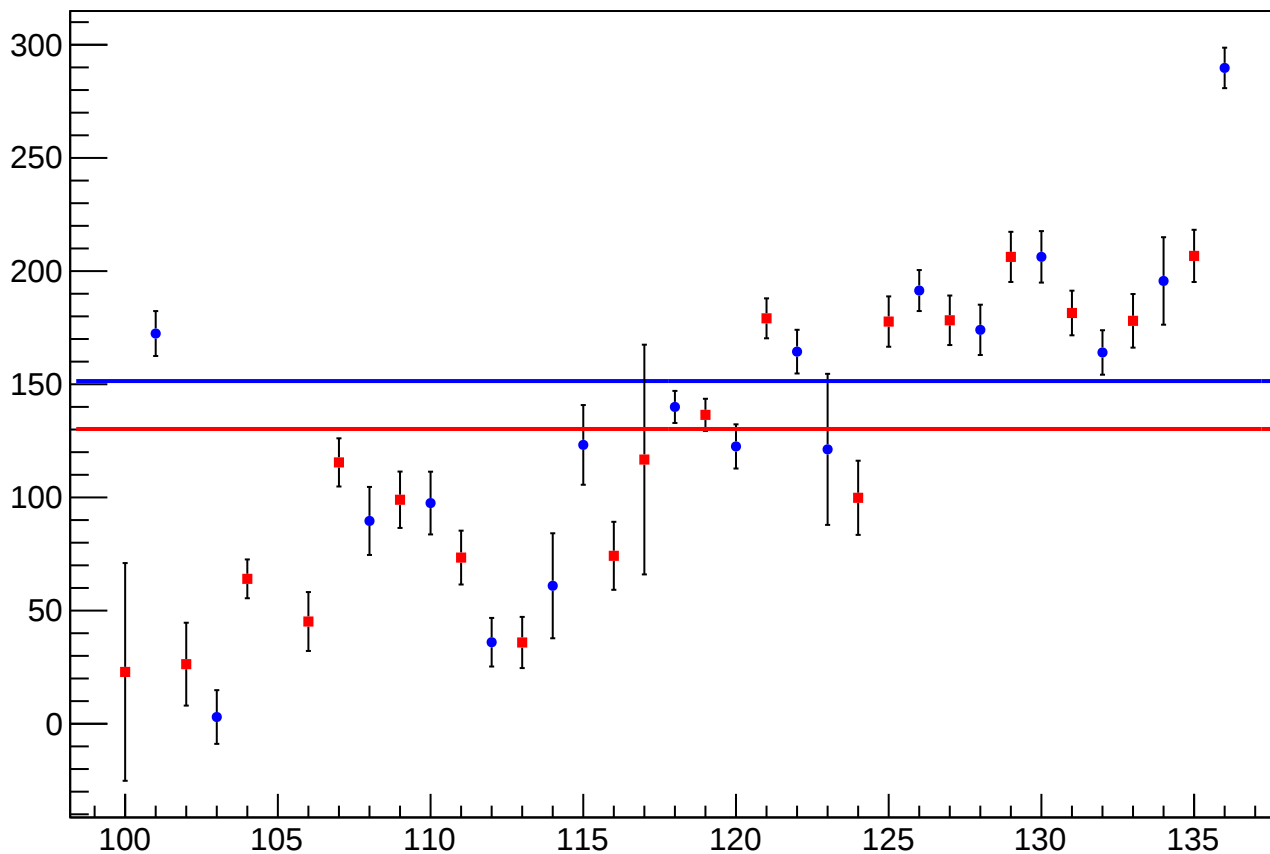
Right Out: 561.896+/-4.169  $\chi^2/\text{NDF}$ : 2687.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

587.994+/-4.353  $\chi^2/\text{NDF}$ : 2129.6/16

561.896+/-4.169  $\chi^2/\text{NDF}$ : 2687.6/18

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 151.421+/-2.709  $\chi^2/\text{NDF}$ : 633.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

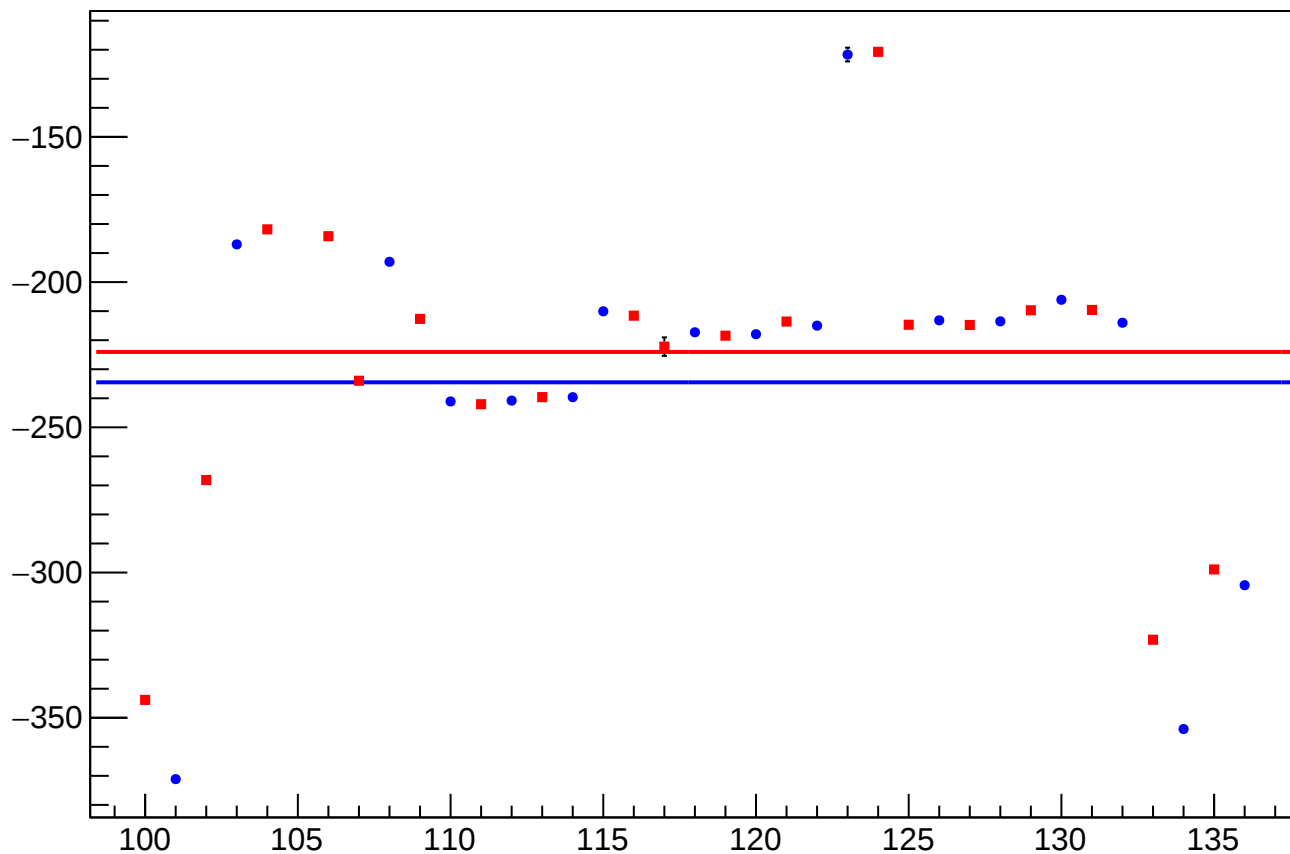
Right Out: 130.246+/-2.637  $\chi^2/\text{NDF}$ : 461.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

151.421+/-2.709  $\chi^2/\text{NDF}$ : 633.3/16

130.246+/-2.637  $\chi^2/\text{NDF}$ : 461.0/18

# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -234.501+/-0.149  $\chi^2$ /NDF: 145046.5/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

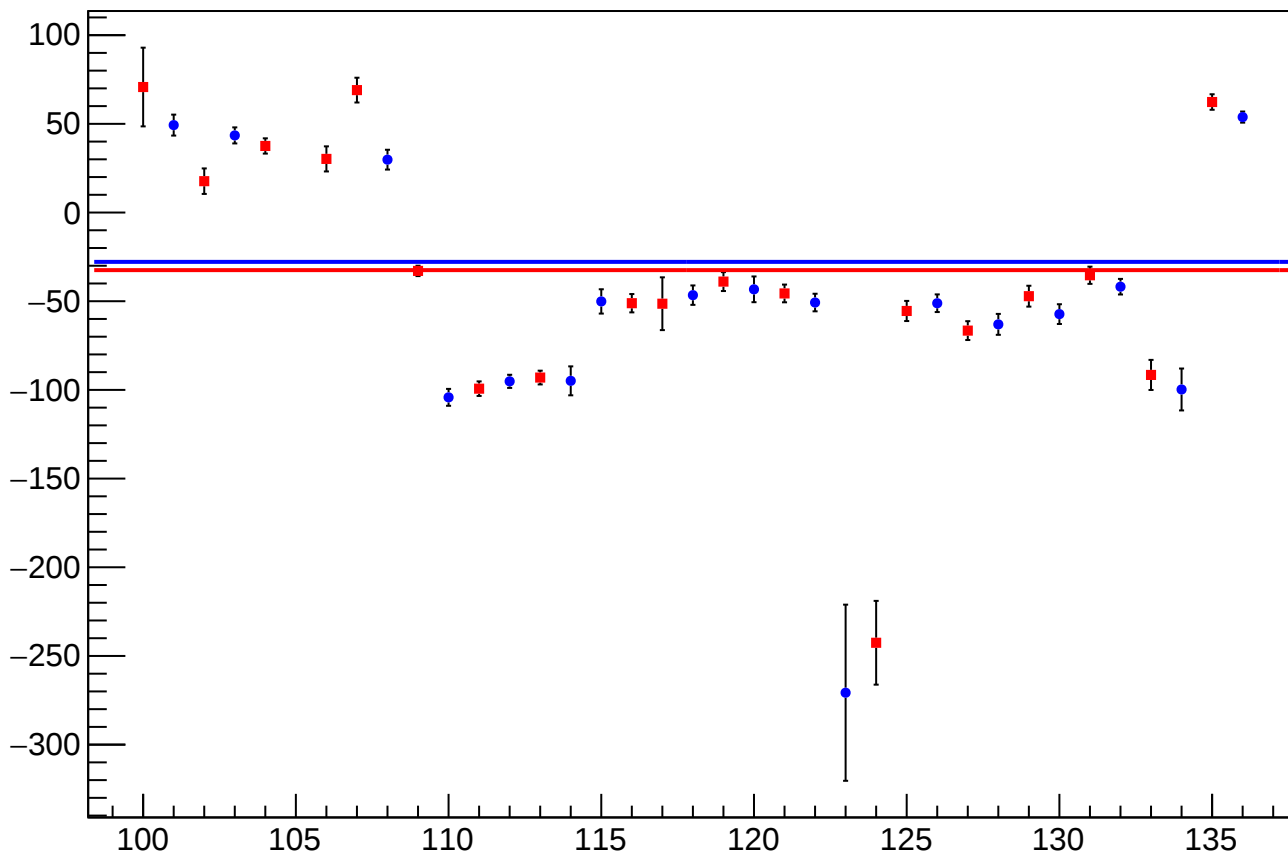
Right Out: -224.043+/-0.144  $\chi^2$ /NDF: 89133.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-234.501+/-0.149  $\chi^2$ /NDF: 145046.5/16

-224.043+/-0.144  $\chi^2$ /NDF: 89133.1/18

# reg\_asym\_at2\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -27.816+/-1.271  $\chi^2$ /NDF: 2066.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

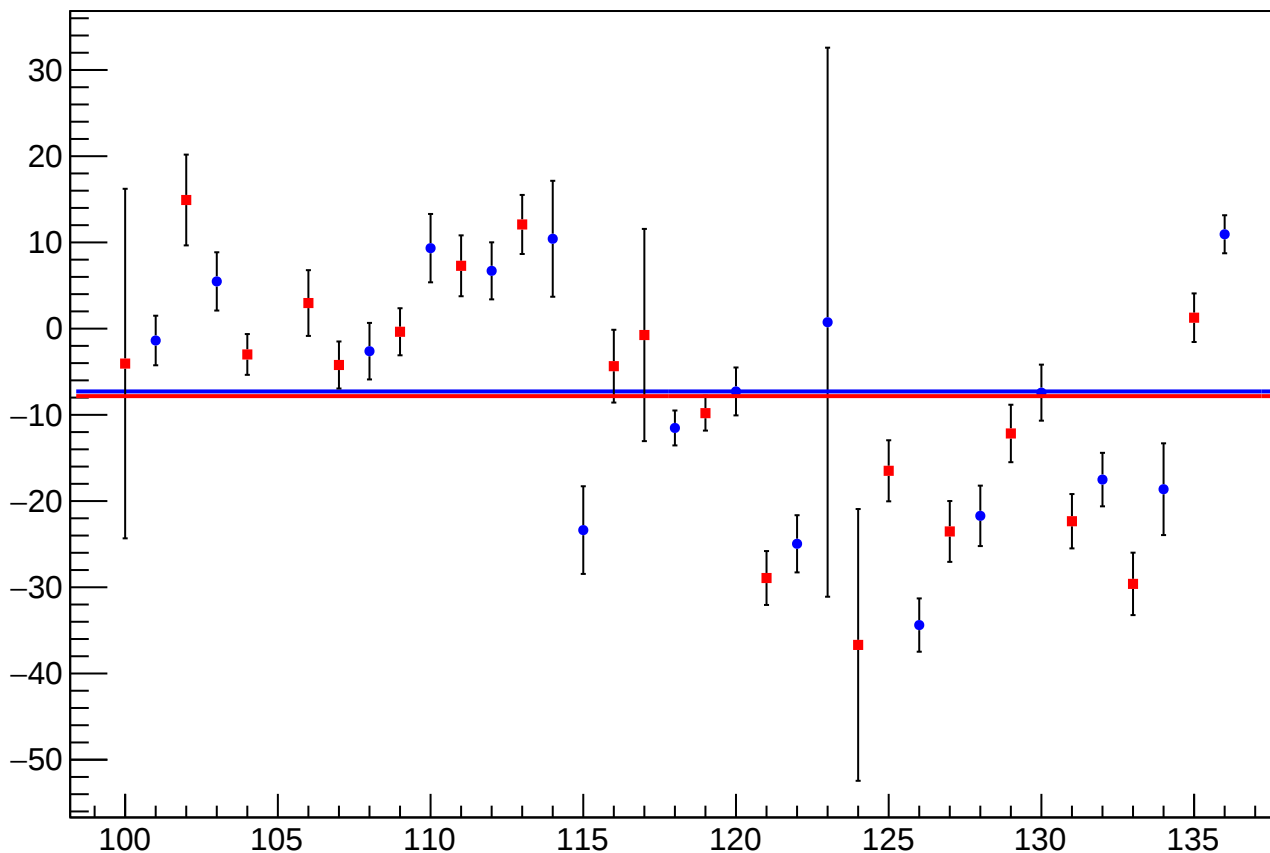
Right Out: -32.471+/-1.211  $\chi^2$ /NDF: 1818.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-27.816+/-1.271  $\chi^2$ /NDF: 2066.3/16

-32.471+/-1.211  $\chi^2$ /NDF: 1818.7/18

# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -7.284+/-0.789  $\chi^2/\text{NDF}$ : 283.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

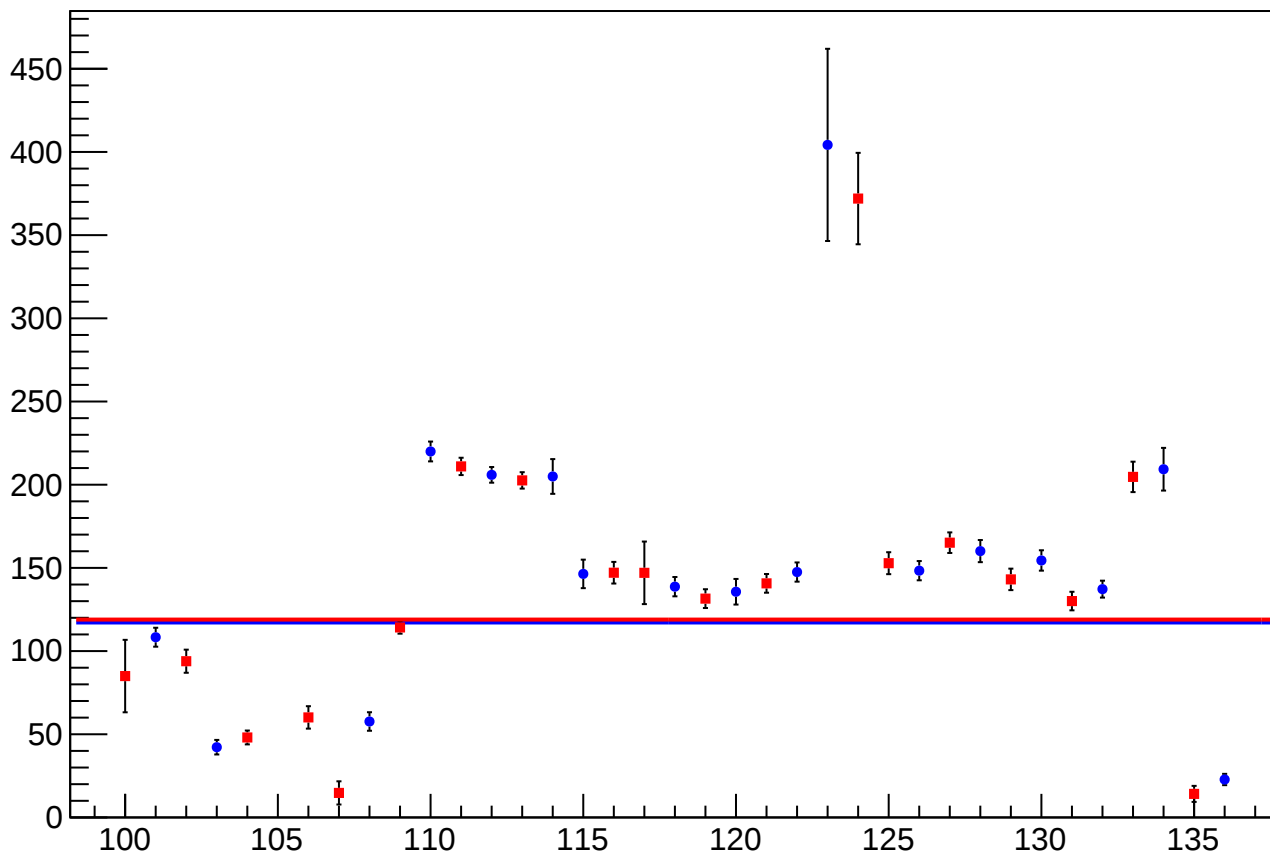
Right Out: -7.829+/-0.770  $\chi^2/\text{NDF}$ : 238.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-7.284+/-0.789  $\chi^2/\text{NDF}$ : 283.2/16

-7.829+/-0.770  $\chi^2/\text{NDF}$ : 238.4/18

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 117.187+/-1.416  $\chi^2/\text{NDF}$ : 2161.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

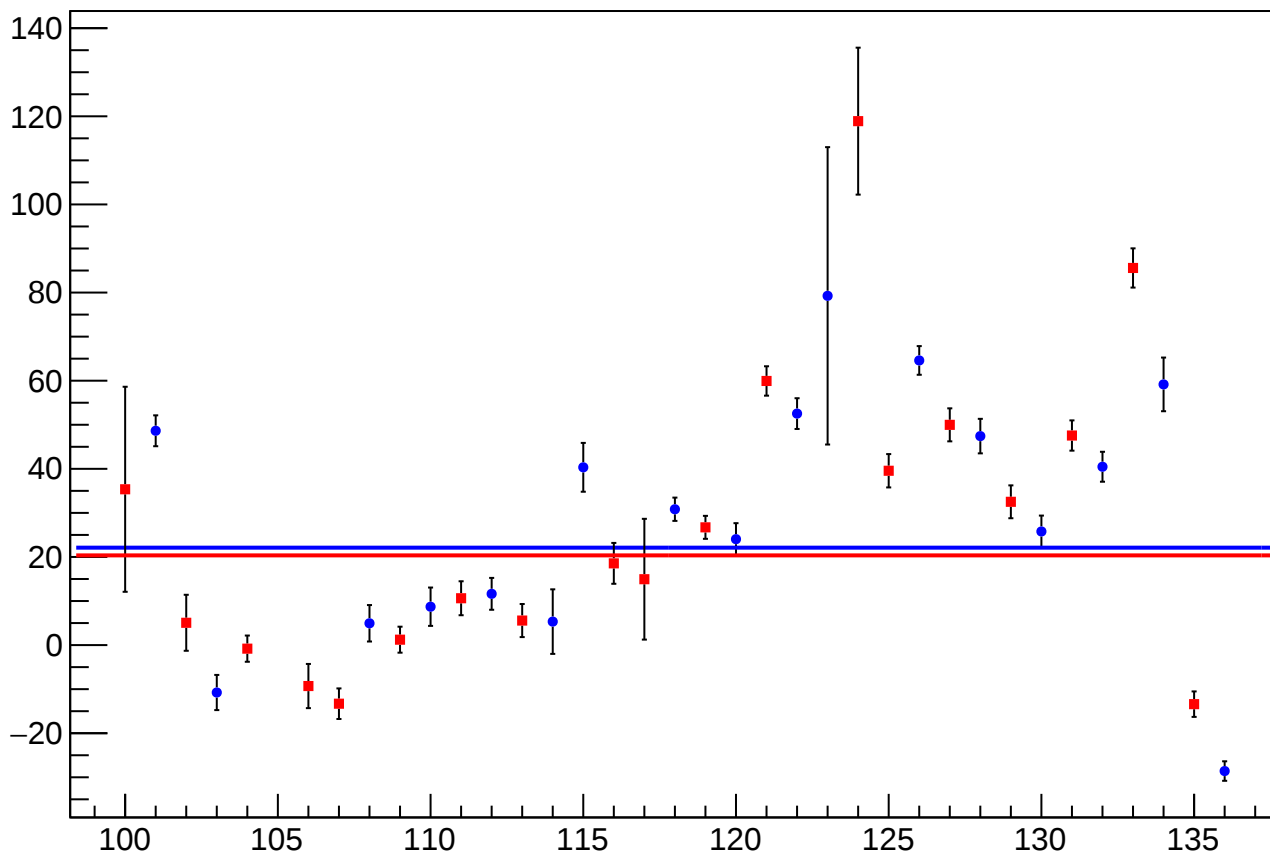
117.187+/-1.416  $\chi^2/\text{NDF}$ : 2161.0/16

Right Out: 118.938+/-1.382  $\chi^2/\text{NDF}$ : 1993.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

118.938+/-1.382  $\chi^2/\text{NDF}$ : 1993.5/18

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 22.110+/-0.898  $\chi^2$ /NDF: 1070.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

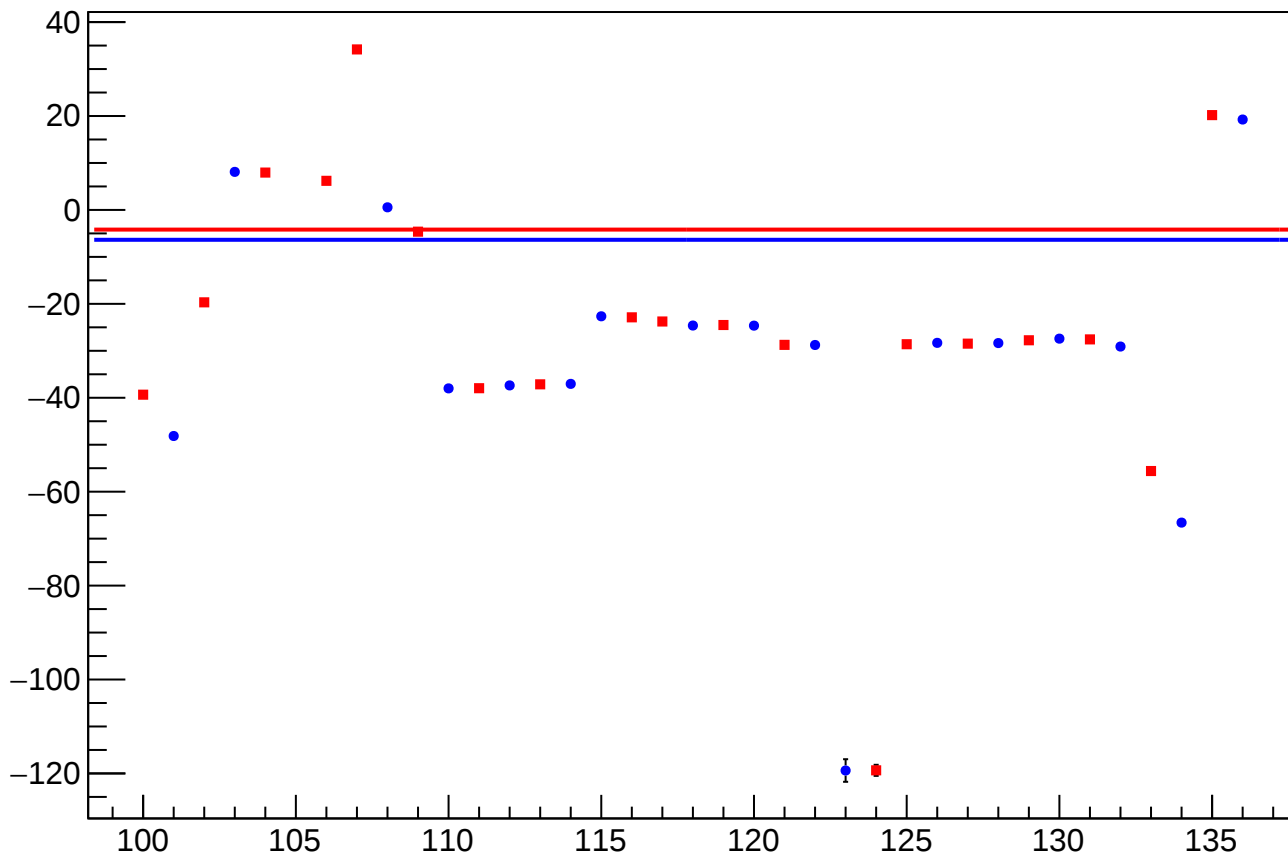
Right Out: 20.357+/-0.885  $\chi^2$ /NDF: 944.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

22.110+/-0.898  $\chi^2$ /NDF: 1070.3/16

20.357+/-0.885  $\chi^2$ /NDF: 944.9/18

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: -6.360+/-0.046  $\chi^2/\text{NDF}$ : 264750.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

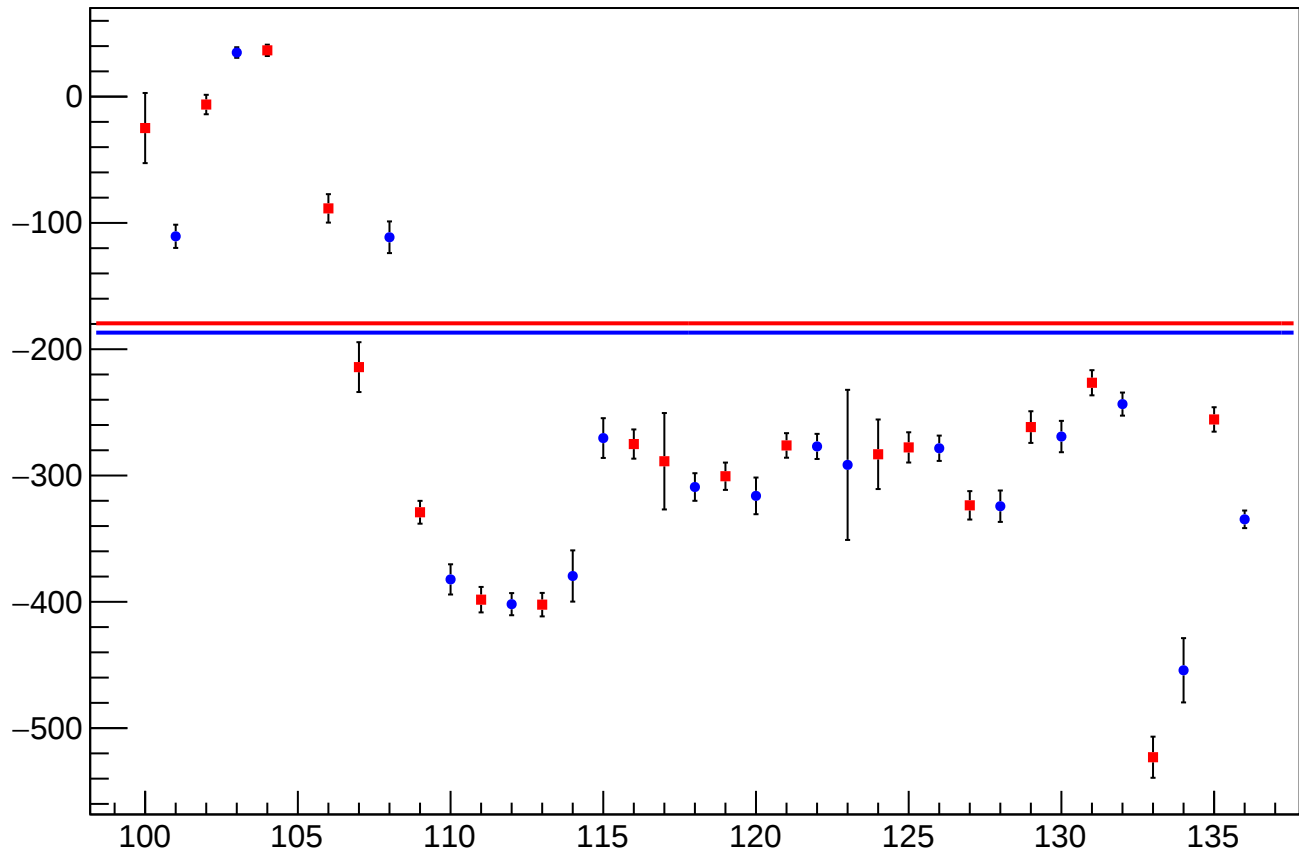
Right Out: -4.187+/-0.047  $\chi^2/\text{NDF}$ : 252539.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.360+/-0.046  $\chi^2/\text{NDF}$ : 264750.9/16

-4.187+/-0.047  $\chi^2/\text{NDF}$ : 252539.0/18

# reg\_asym\_atl1r2\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -186.862 $\pm$ 2.342  $\chi^2$ /NDF: 5033.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

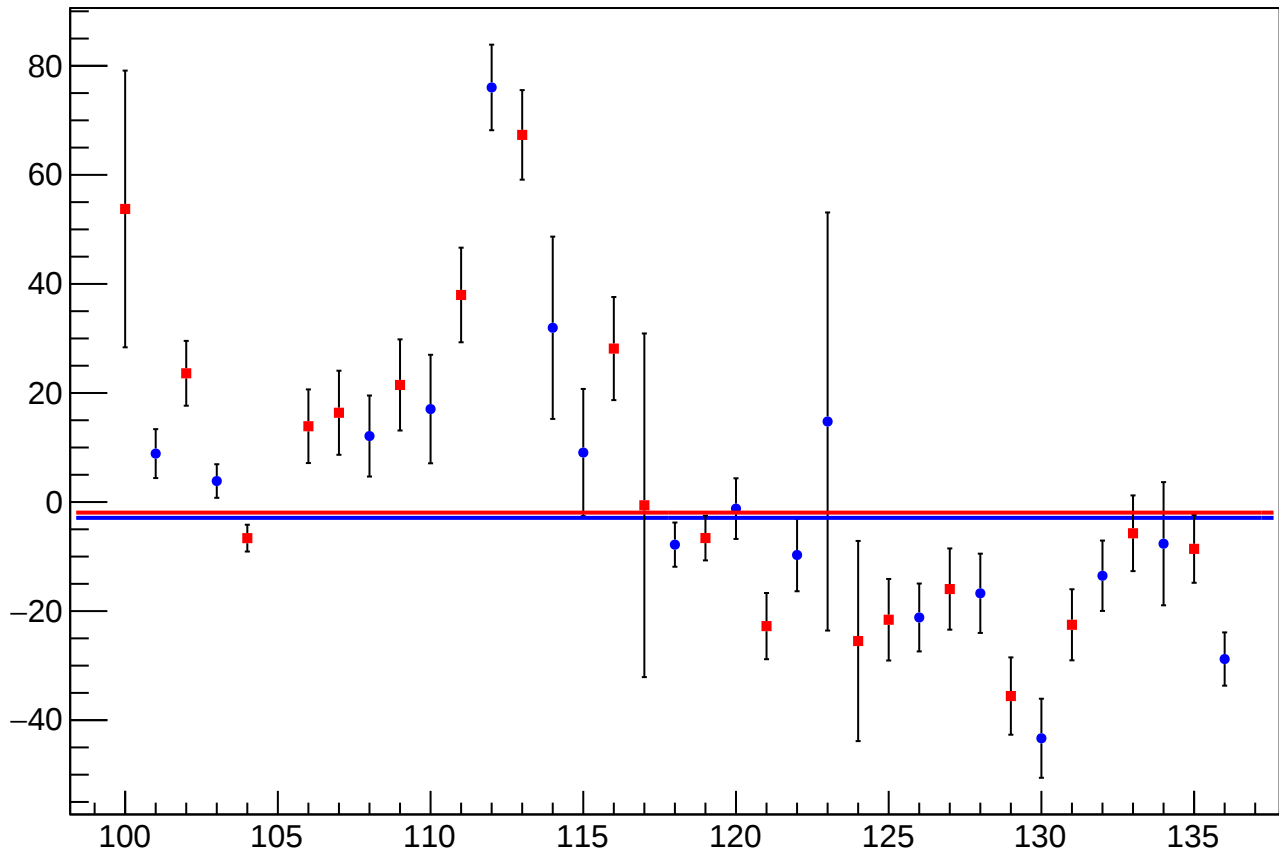
Right Out: -179.492 $\pm$ 2.317  $\chi^2$ /NDF: 5360.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-186.862 $\pm$ 2.342  $\chi^2$ /NDF: 5033.7/16

-179.492 $\pm$ 2.317  $\chi^2$ /NDF: 5360.8/18

# reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -2.901+/-1.467  $\chi^2$ /NDF: 203.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

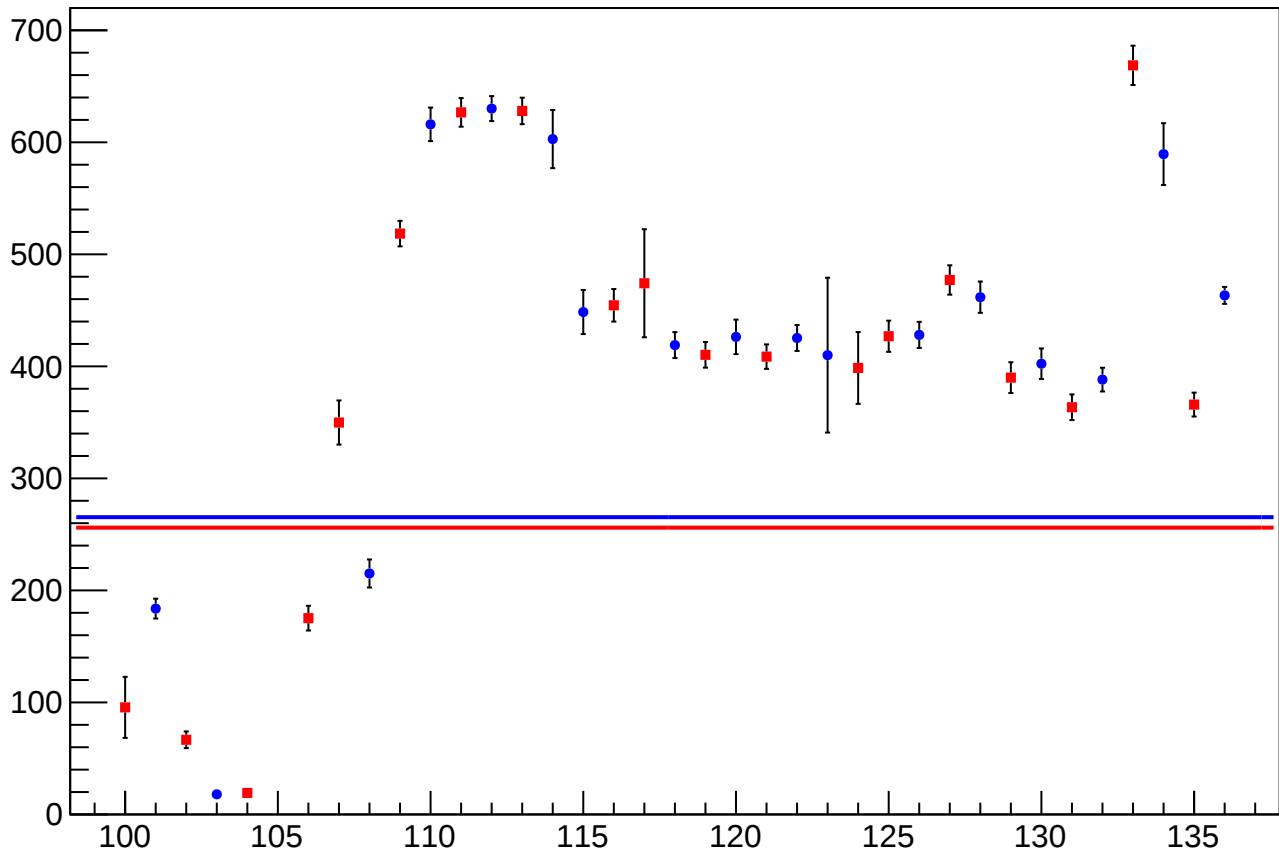
Right Out: -1.937+/-1.408  $\chi^2$ /NDF: 207.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-2.901+/-1.467  $\chi^2$ /NDF: 203.6/16

-1.937+/-1.408  $\chi^2$ /NDF: 207.4/18

reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 265.369+/-2.488  $\chi^2/\text{NDF}$ : 7633.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

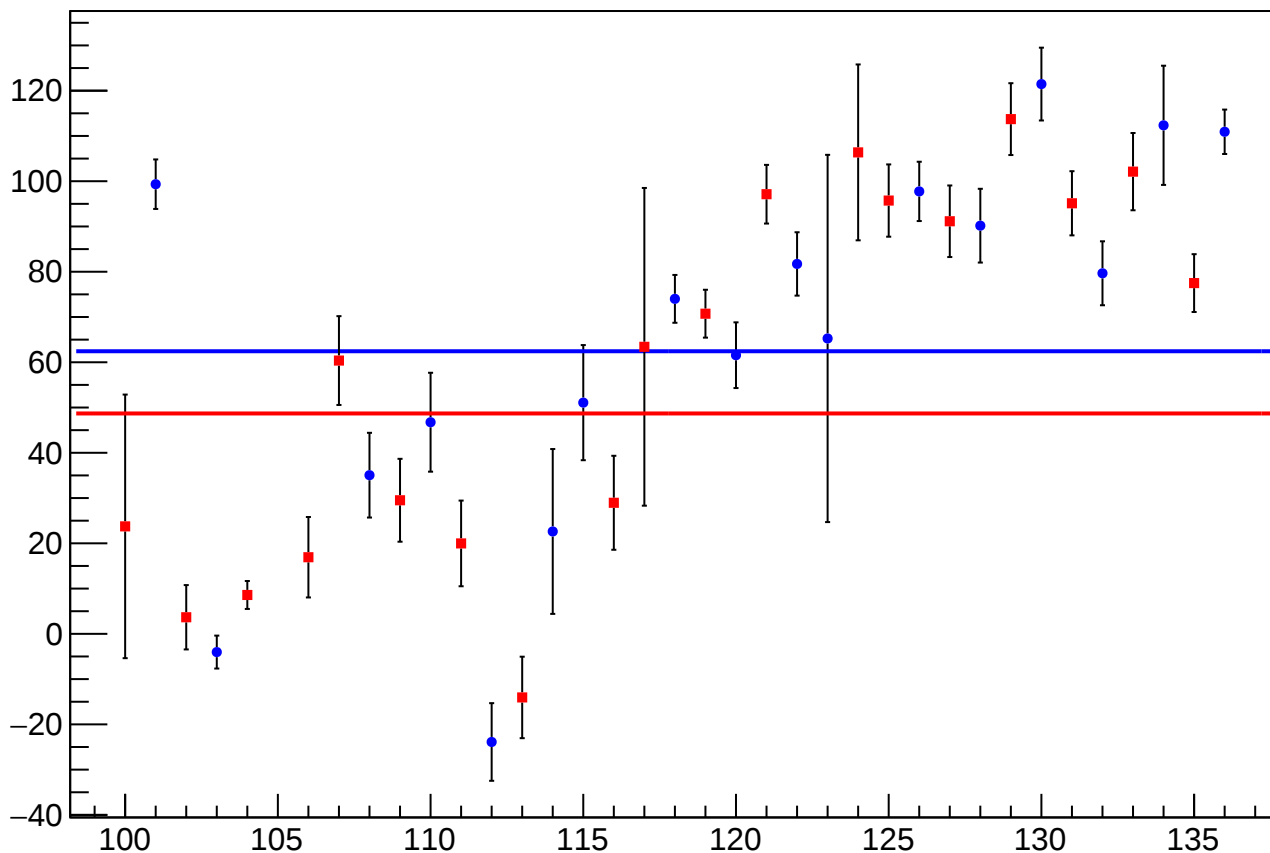
Right Out: 256.035+/-2.483  $\chi^2/\text{NDF}$ : 7969.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

265.369+/-2.488  $\chi^2/\text{NDF}$ : 7633.8/16

256.035+/-2.483  $\chi^2/\text{NDF}$ : 7969.1/18

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 62.434+/-1.694  $\chi^2/\text{NDF}$ : 721.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

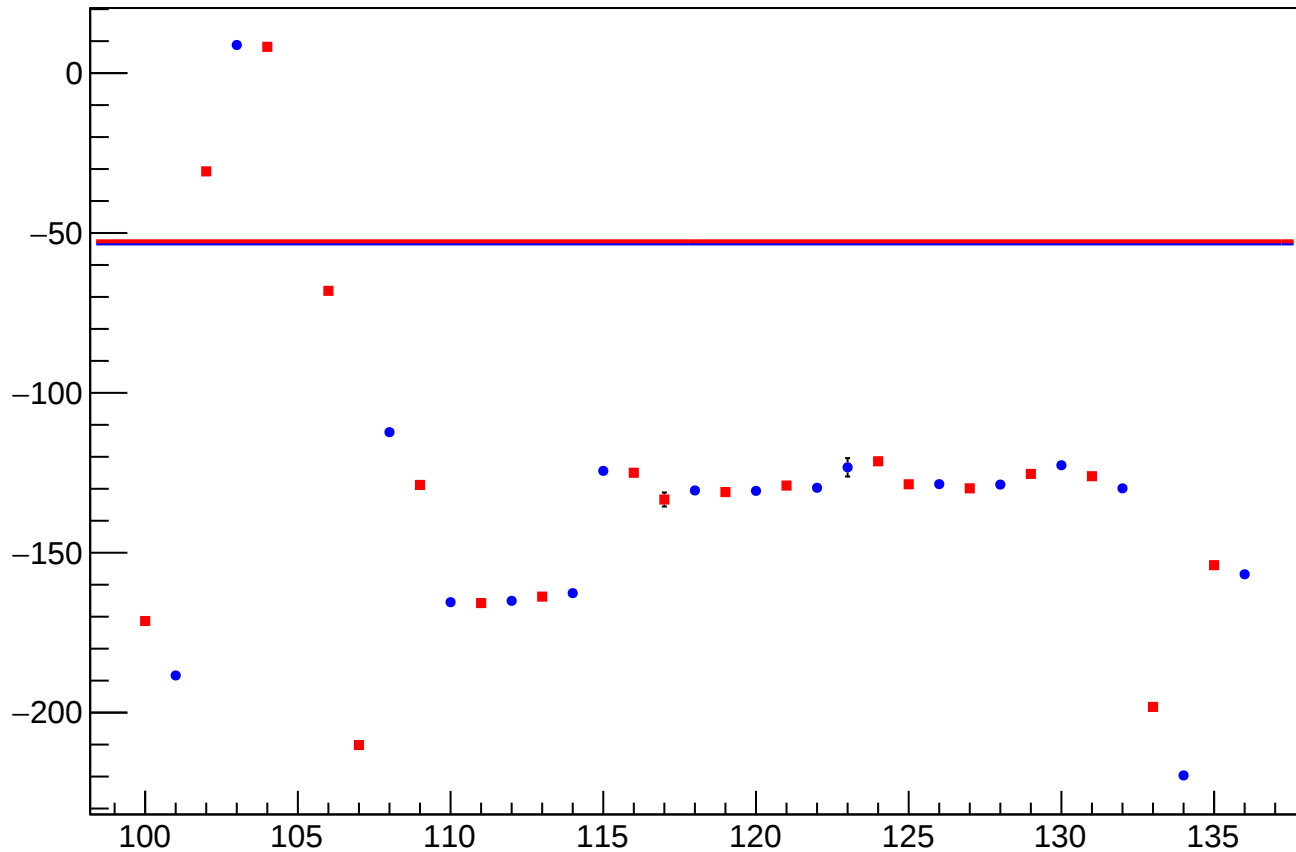
Right Out: 48.690+/-1.661  $\chi^2/\text{NDF}$ : 605.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

62.434+/-1.694  $\chi^2/\text{NDF}$ : 721.8/16

48.690+/-1.661  $\chi^2/\text{NDF}$ : 605.1/18

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -53.264+/-0.070  $\chi^2/\text{NDF}$ : 1225492.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

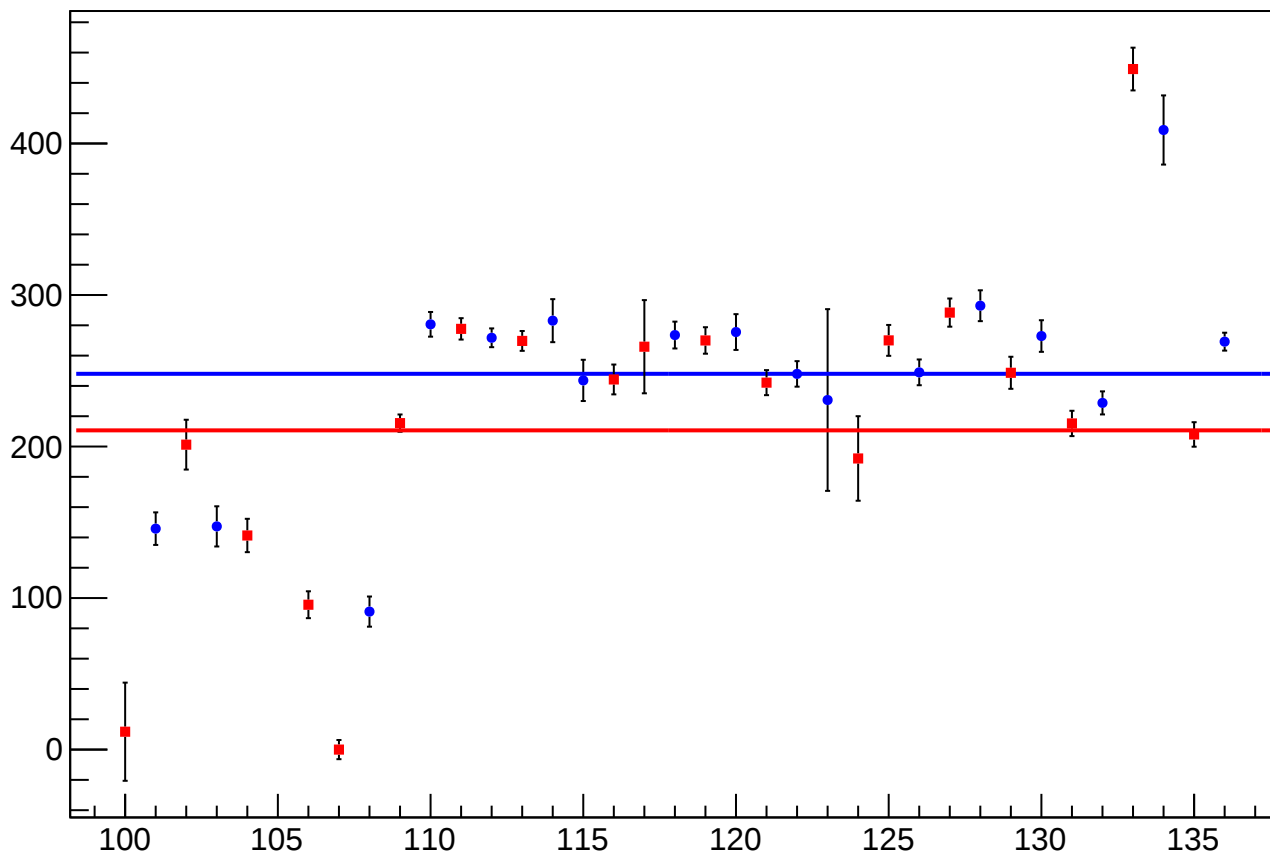
Right Out: -52.599+/-0.073  $\chi^2/\text{NDF}$ : 911724.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-53.264+/-0.070  $\chi^2/\text{NDF}$ : 1225492.9/16

-52.599+/-0.073  $\chi^2/\text{NDF}$ : 911724.5/18

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: 247.995 $\pm$ 2.290  $\chi^2$ /NDF: 541.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

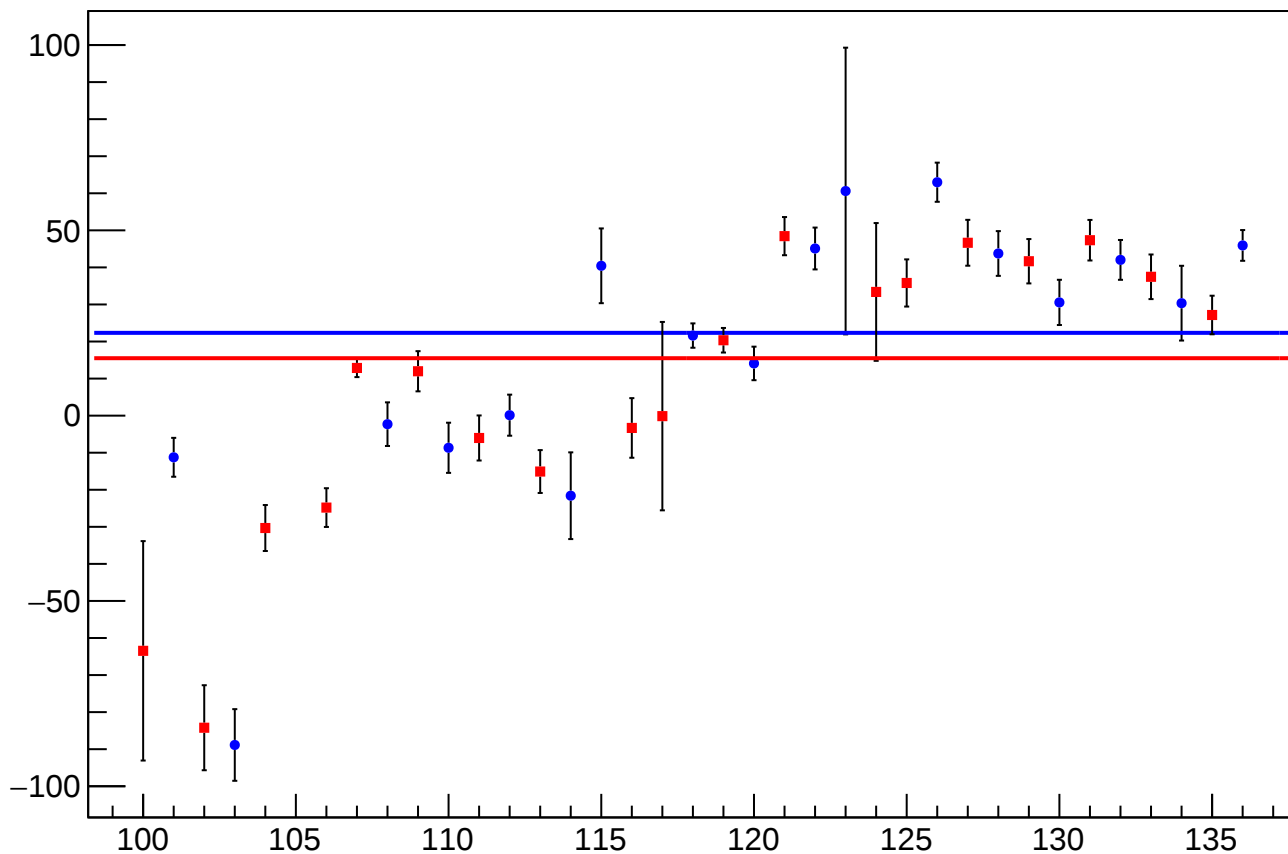
Right Out: 210.671 $\pm$ 2.086  $\chi^2$ /NDF: 2005.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

247.995 $\pm$ 2.290  $\chi^2$ /NDF: 541.7/16

210.671 $\pm$ 2.086  $\chi^2$ /NDF: 2005.1/18

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 22.342 $\pm$ 1.395  $\chi^2$ /NDF: 385.8/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

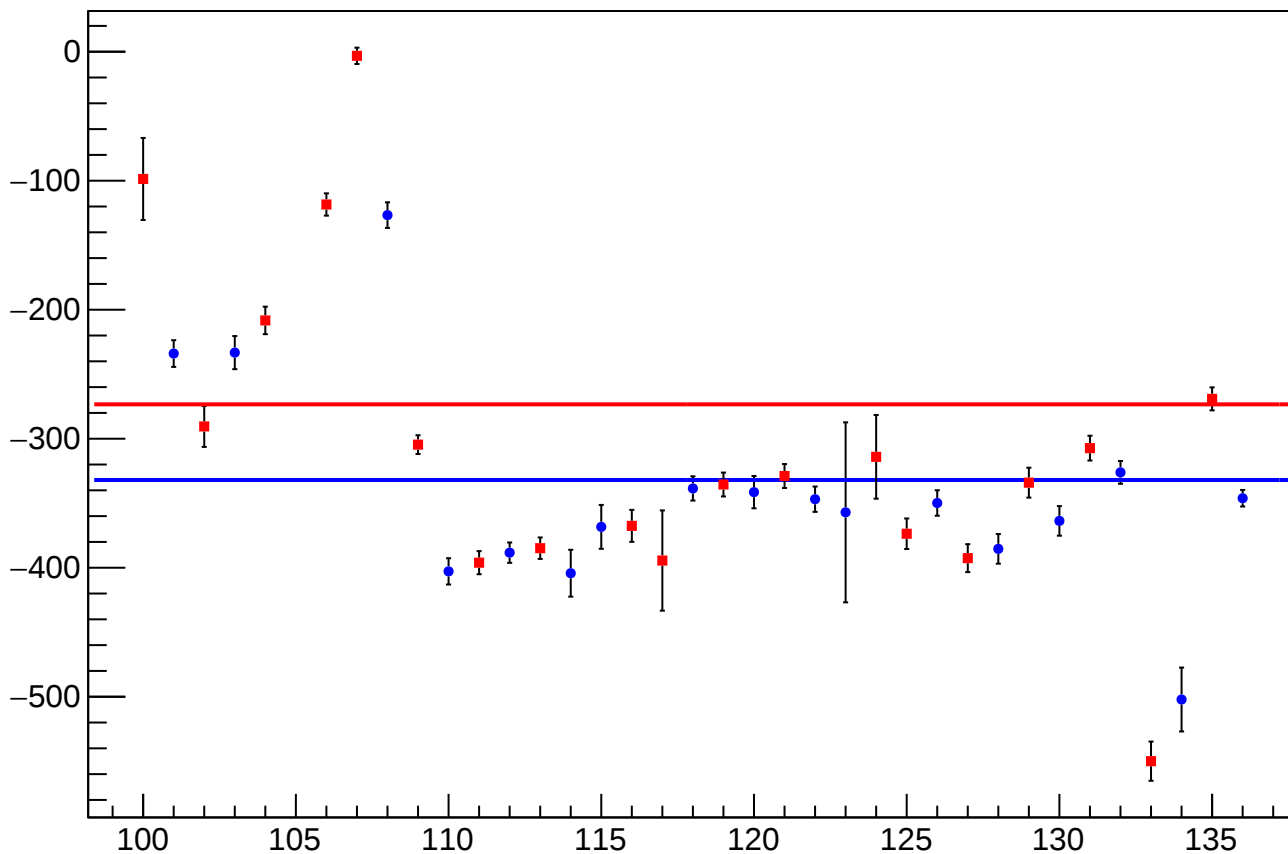
Right Out: 15.500 $\pm$ 1.239  $\chi^2$ /NDF: 395.4/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

22.342 $\pm$ 1.395  $\chi^2$ /NDF: 385.8/16

15.500 $\pm$ 1.239  $\chi^2$ /NDF: 395.4/18

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -331.989+/-2.580  $\chi^2/\text{NDF}$ : 785.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

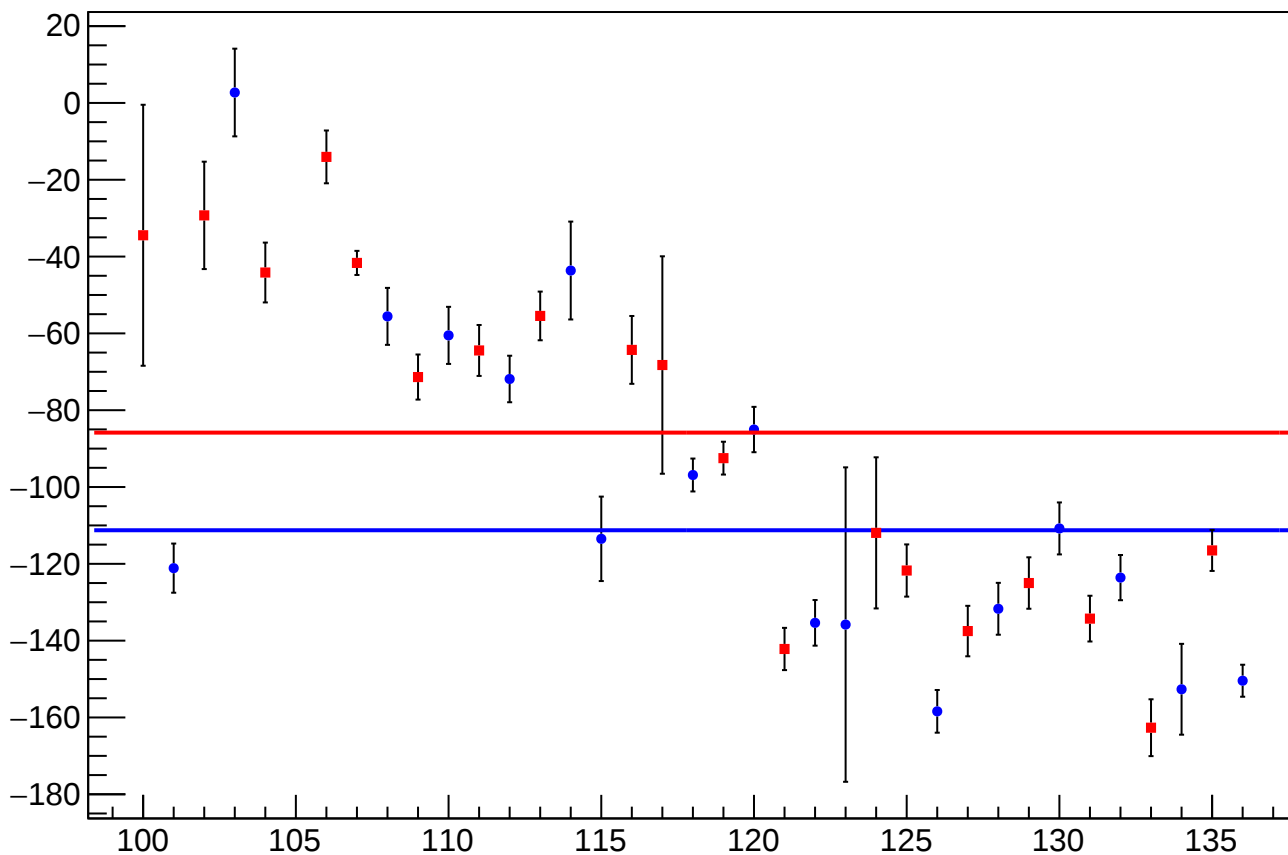
Right Out: -273.355+/-2.355  $\chi^2/\text{NDF}$ : 3319.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-331.989+/-2.580  $\chi^2/\text{NDF}$ : 785.0/16

-273.355+/-2.355  $\chi^2/\text{NDF}$ : 3319.4/18

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -111.257+/-1.597  $\chi^2$ /NDF: 509.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

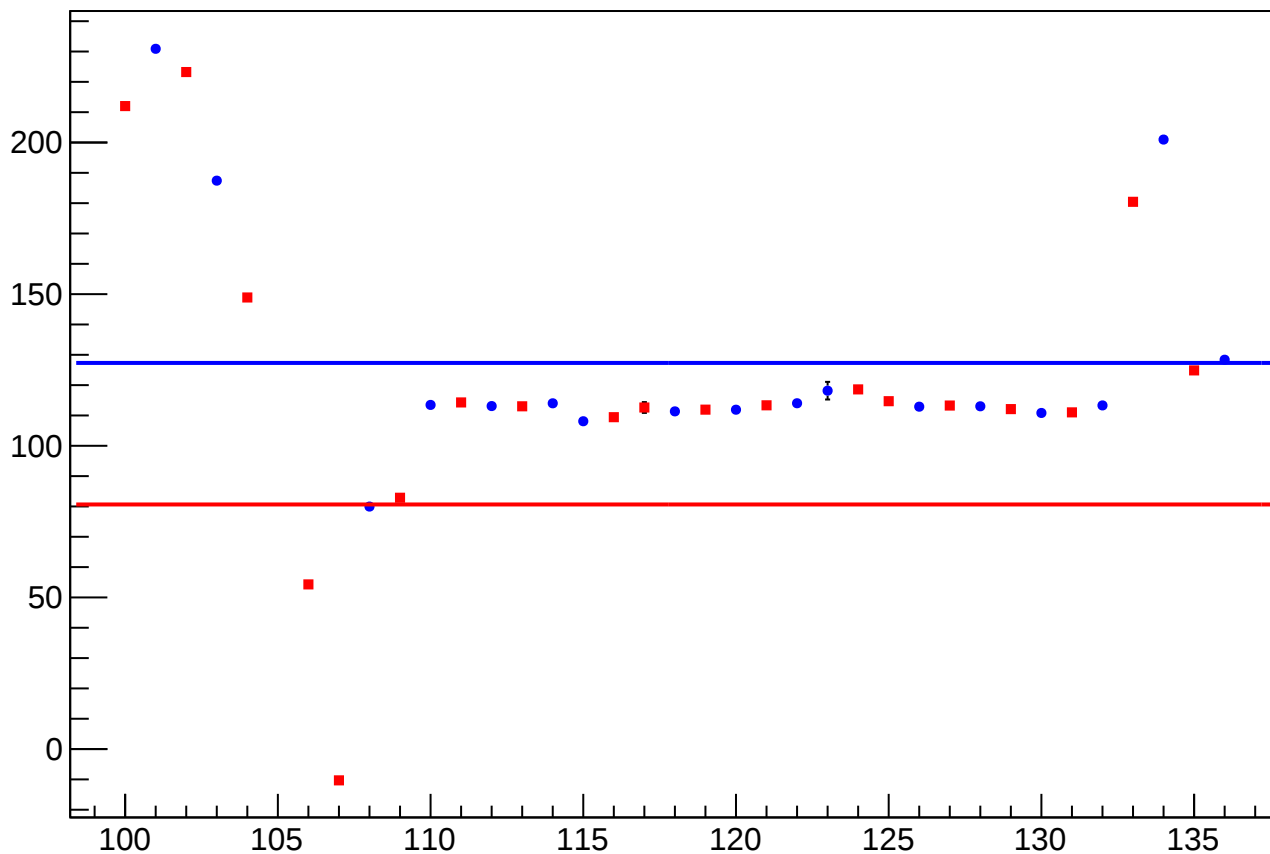
Right Out: -85.835+/-1.451  $\chi^2$ /NDF: 840.3/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-111.257+/-1.597  $\chi^2$ /NDF: 509.6/16

-85.835+/-1.451  $\chi^2$ /NDF: 840.3/18

# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 127.323+/-0.089  $\chi^2/\text{NDF}$ : 187776.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

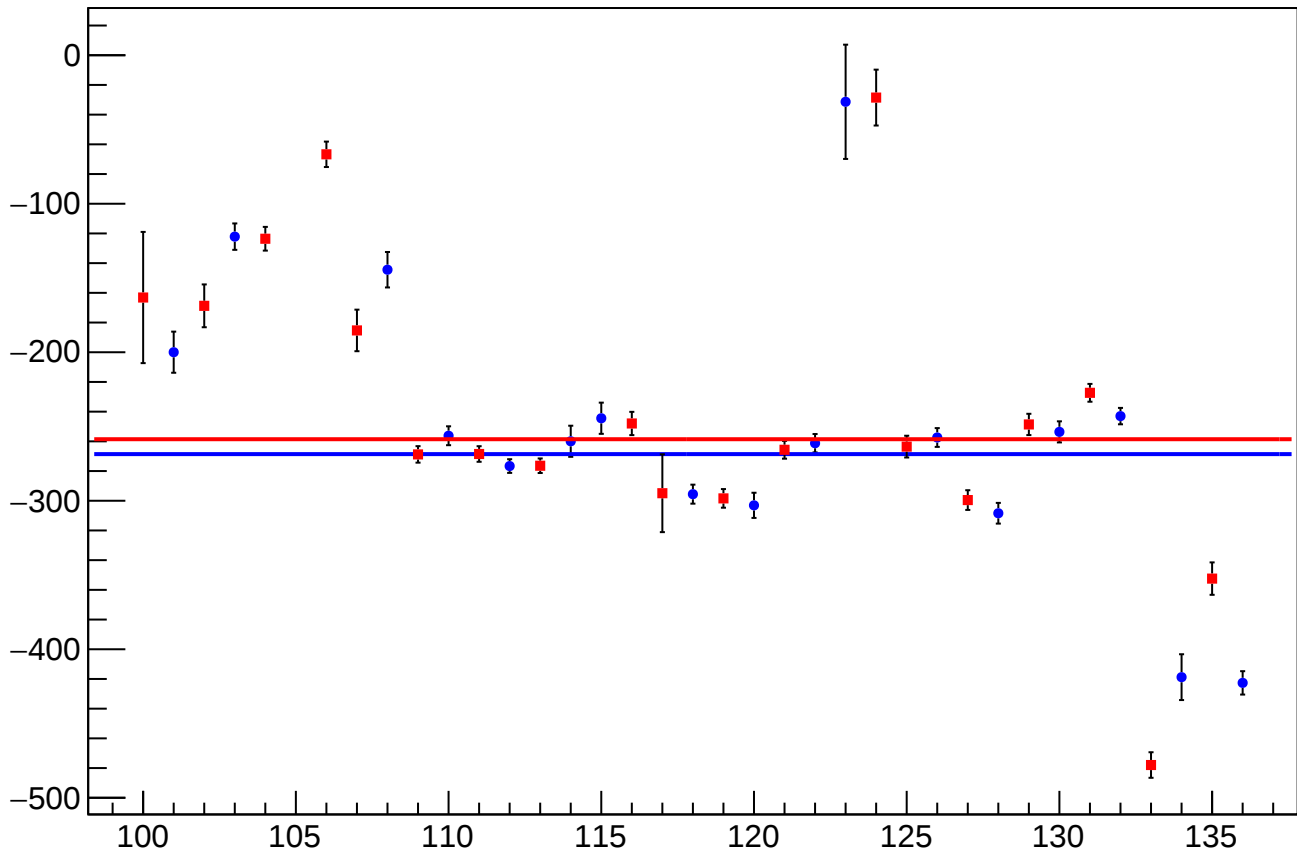
127.323+/-0.089  $\chi^2/\text{NDF}$ : 187776.4/16

Right Out: 80.654+/-0.077  $\chi^2/\text{NDF}$ : 749624.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

80.654+/-0.077  $\chi^2/\text{NDF}$ : 749624.6/18

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: -268.595+/-1.830  $\chi^2/\text{NDF}$ : 1029.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

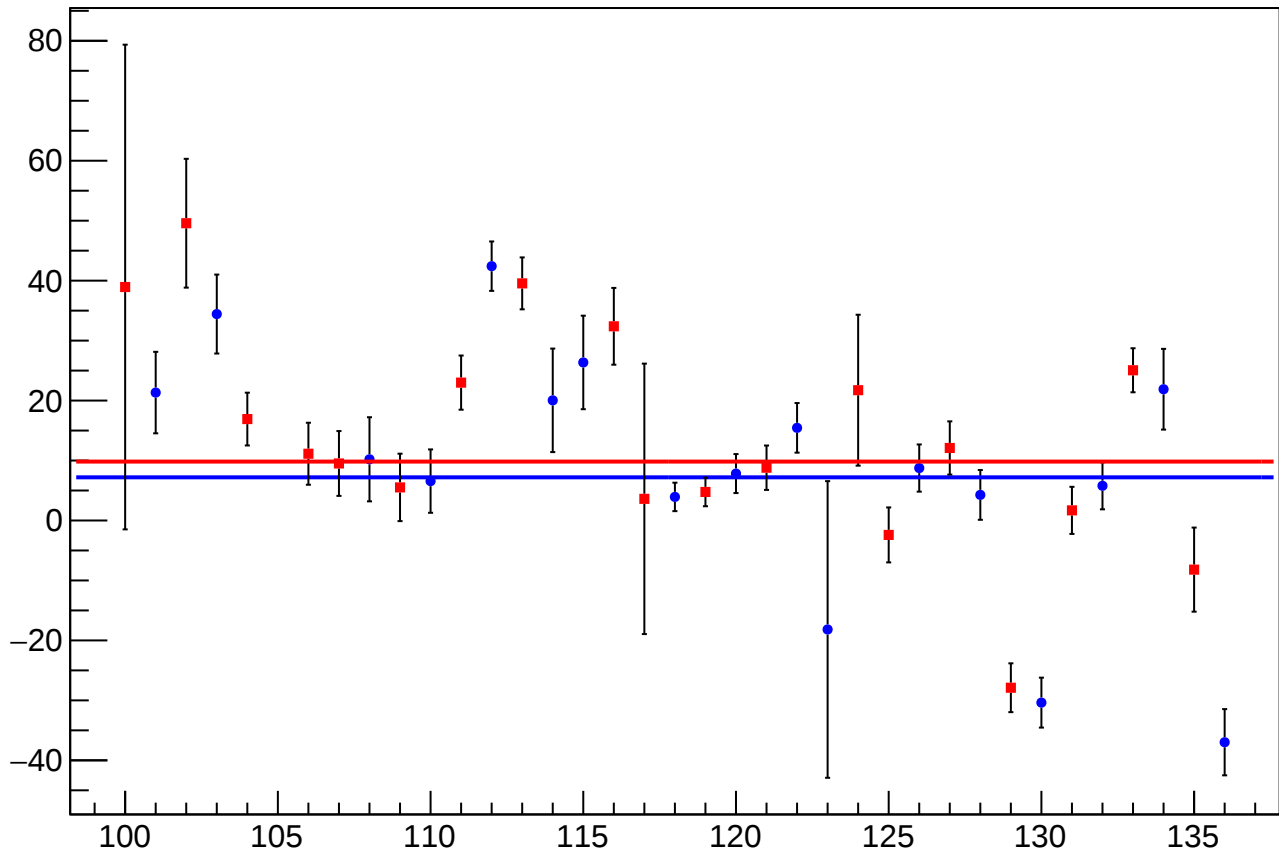
Right Out: -258.563+/-1.729  $\chi^2/\text{NDF}$ : 1865.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-268.595+/-1.830  $\chi^2/\text{NDF}$ : 1029.9/16

-258.563+/-1.729  $\chi^2/\text{NDF}$ : 1865.5/18

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 7.199+/-1.103  $\chi^2/\text{NDF}$ : 260.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

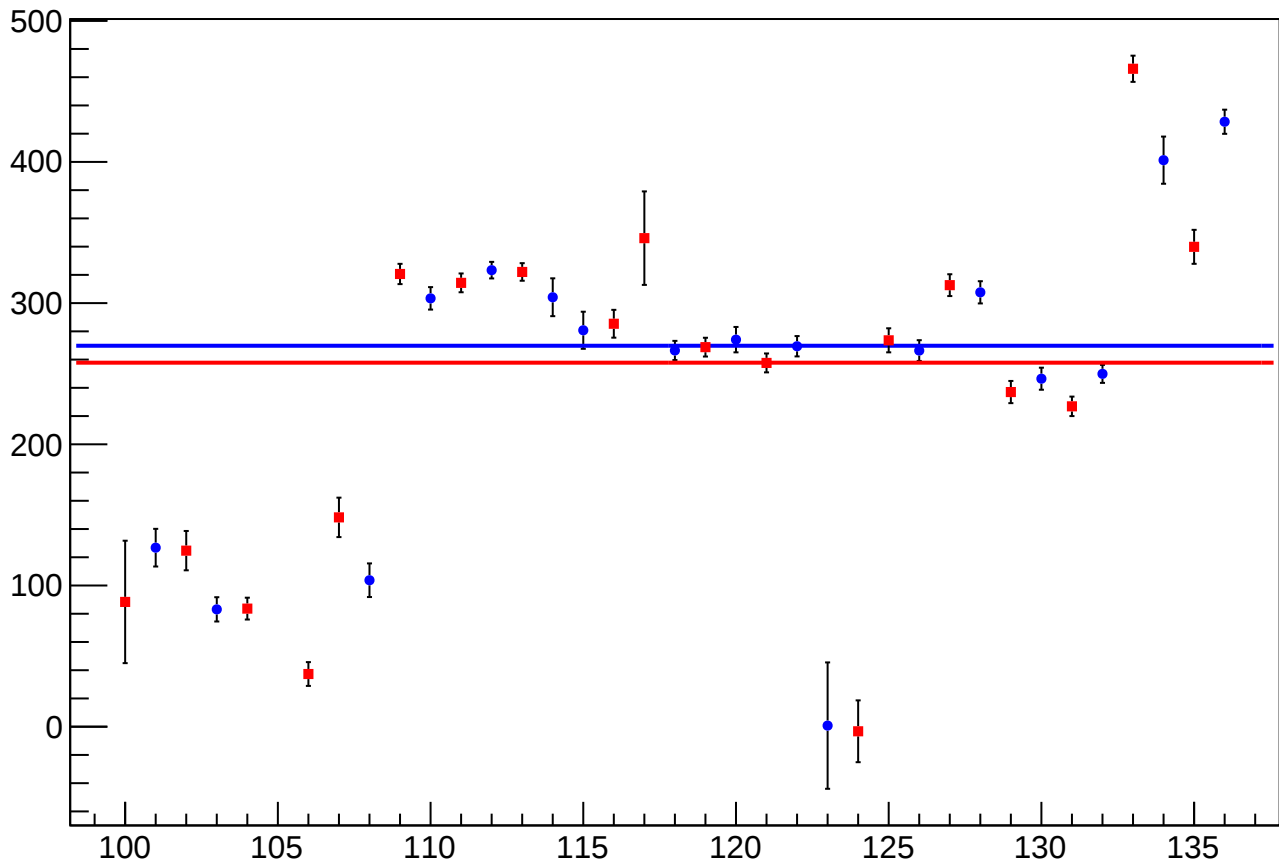
Right Out: 9.825+/-1.074  $\chi^2/\text{NDF}$ : 212.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7.199+/-1.103  $\chi^2/\text{NDF}$ : 260.9/16

9.825+/-1.074  $\chi^2/\text{NDF}$ : 212.4/18

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 269.806 $\pm$ 2.089  $\chi^2$ /NDF: 1374.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

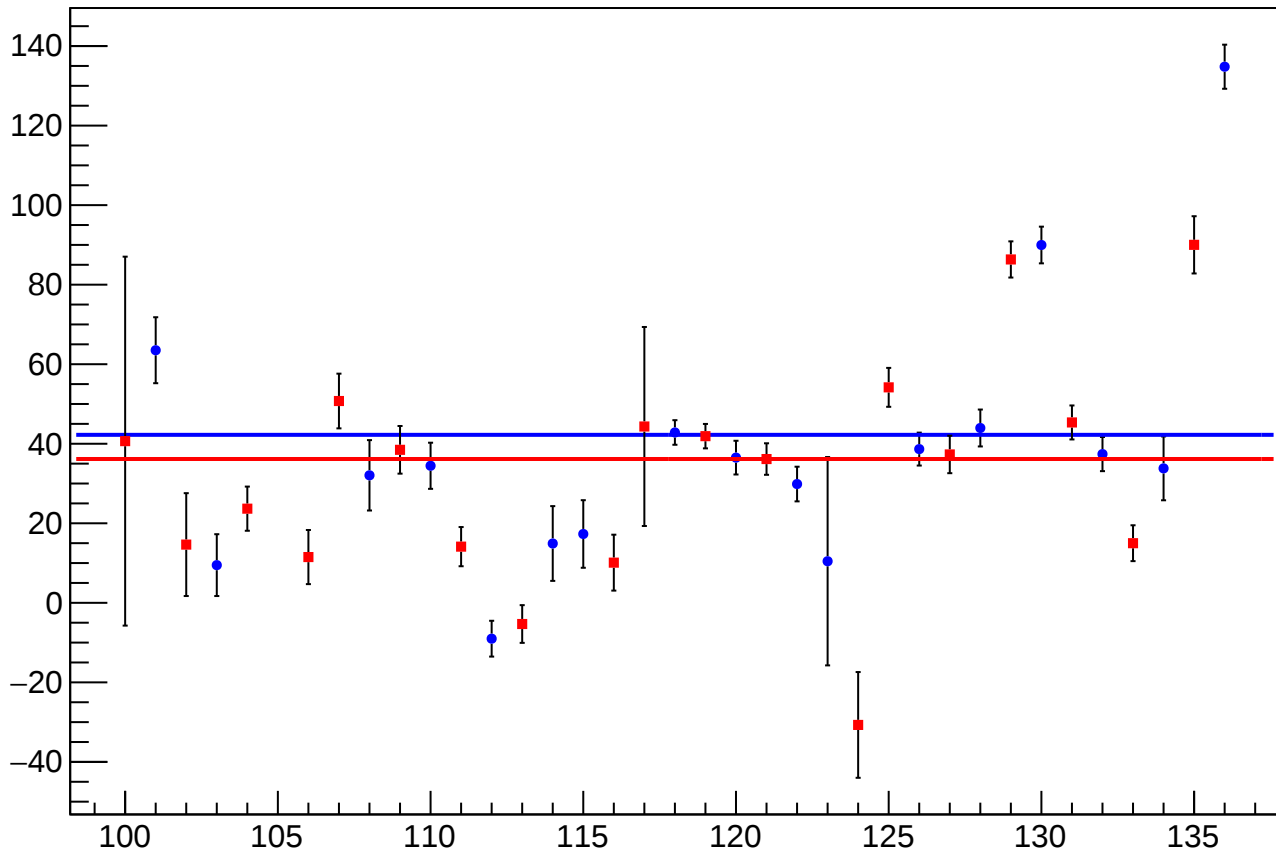
Right Out: 257.810 $\pm$ 1.985  $\chi^2$ /NDF: 2406.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

269.806 $\pm$ 2.089  $\chi^2$ /NDF: 1374.1/16

257.810 $\pm$ 1.985  $\chi^2$ /NDF: 2406.7/18

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 42.242 $\pm$ 1.274  $\chi^2$ /NDF: 574.4/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

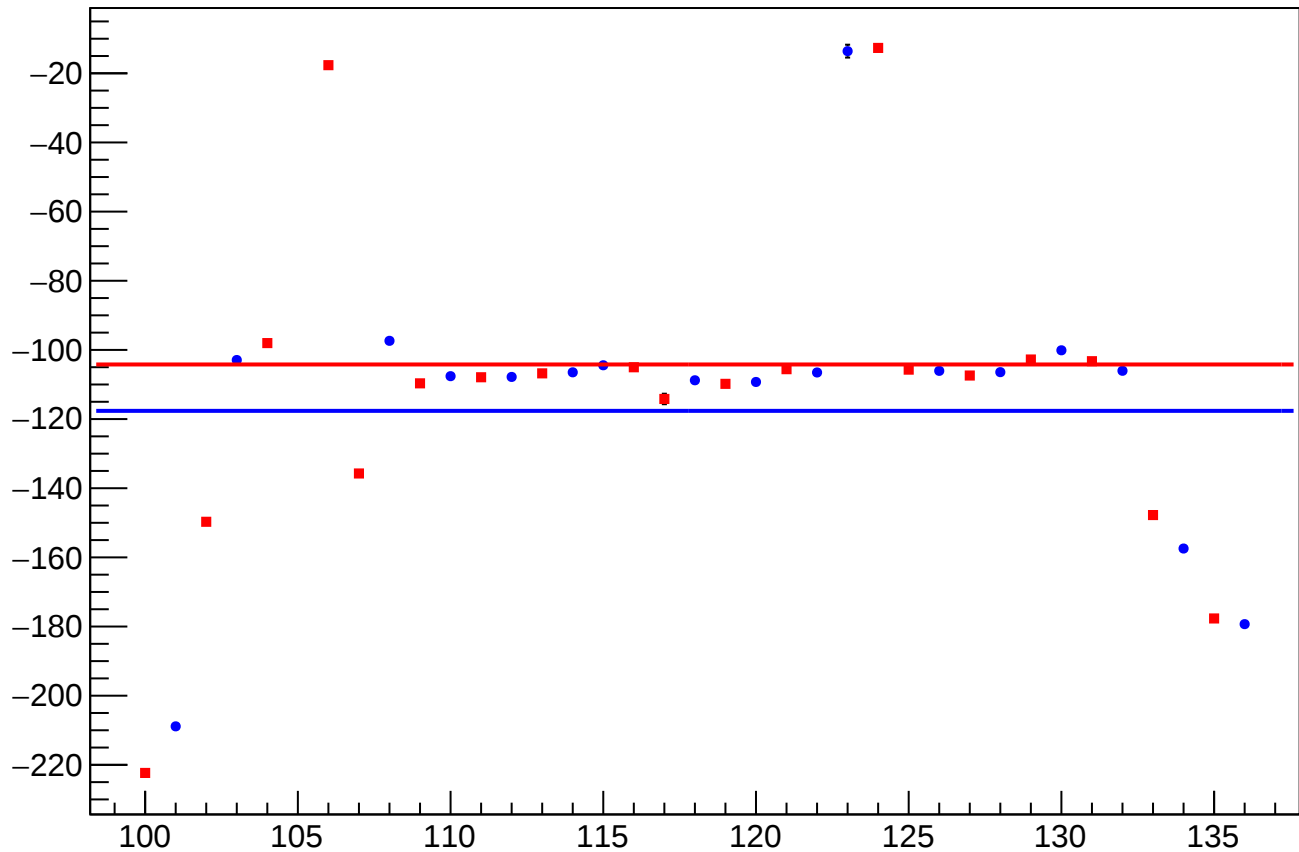
Right Out: 36.167 $\pm$ 1.240  $\chi^2$ /NDF: 382.7/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

42.242 $\pm$ 1.274  $\chi^2$ /NDF: 574.4/16

36.167 $\pm$ 1.240  $\chi^2$ /NDF: 382.7/18

# reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -117.625+/-0.079  $\chi^2/\text{NDF}$ : 141872.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

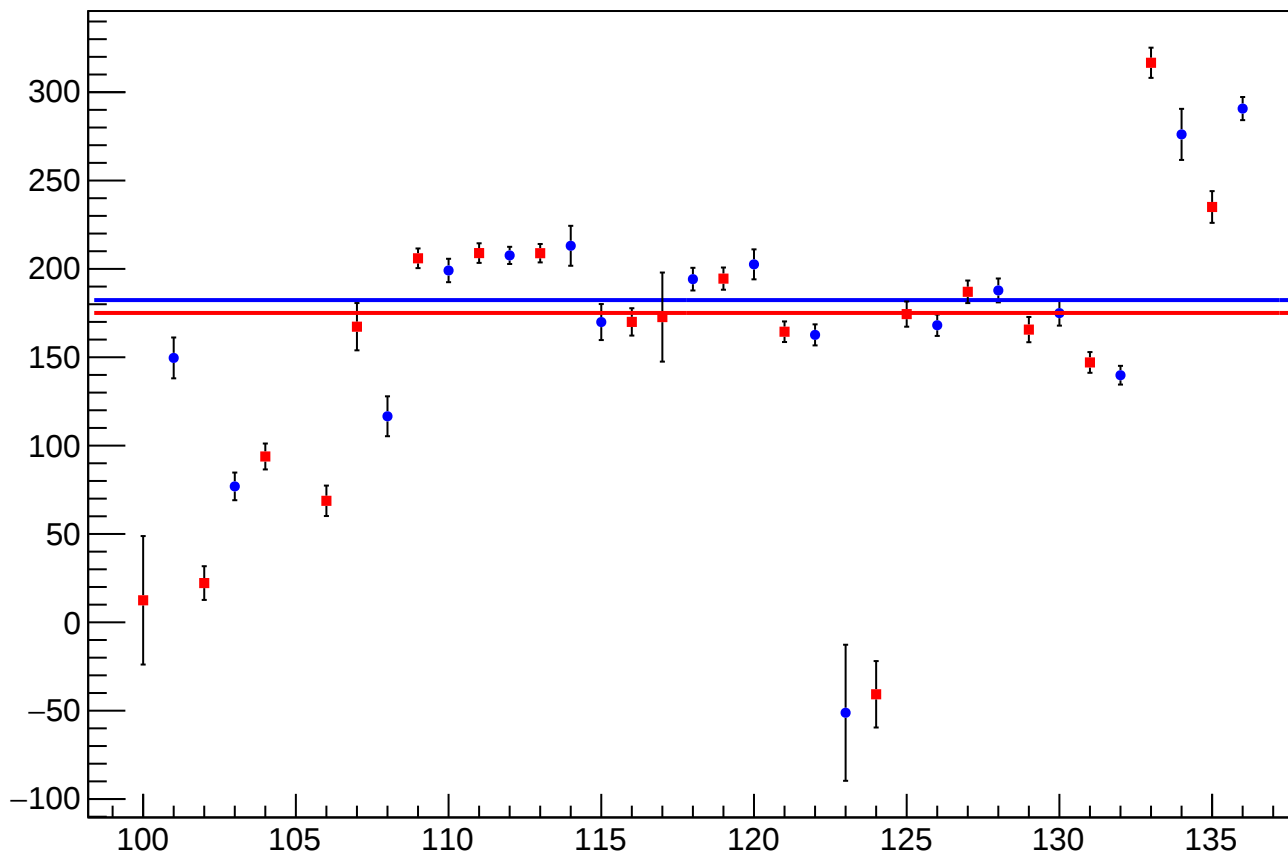
Right Out: -104.209+/-0.074  $\chi^2/\text{NDF}$ : 300284.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-117.625+/-0.079  $\chi^2/\text{NDF}$ : 141872.3/16

-104.209+/-0.074  $\chi^2/\text{NDF}$ : 300284.9/18

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: 182.351+/-1.784  $\chi^2/\text{NDF}$ : 710.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

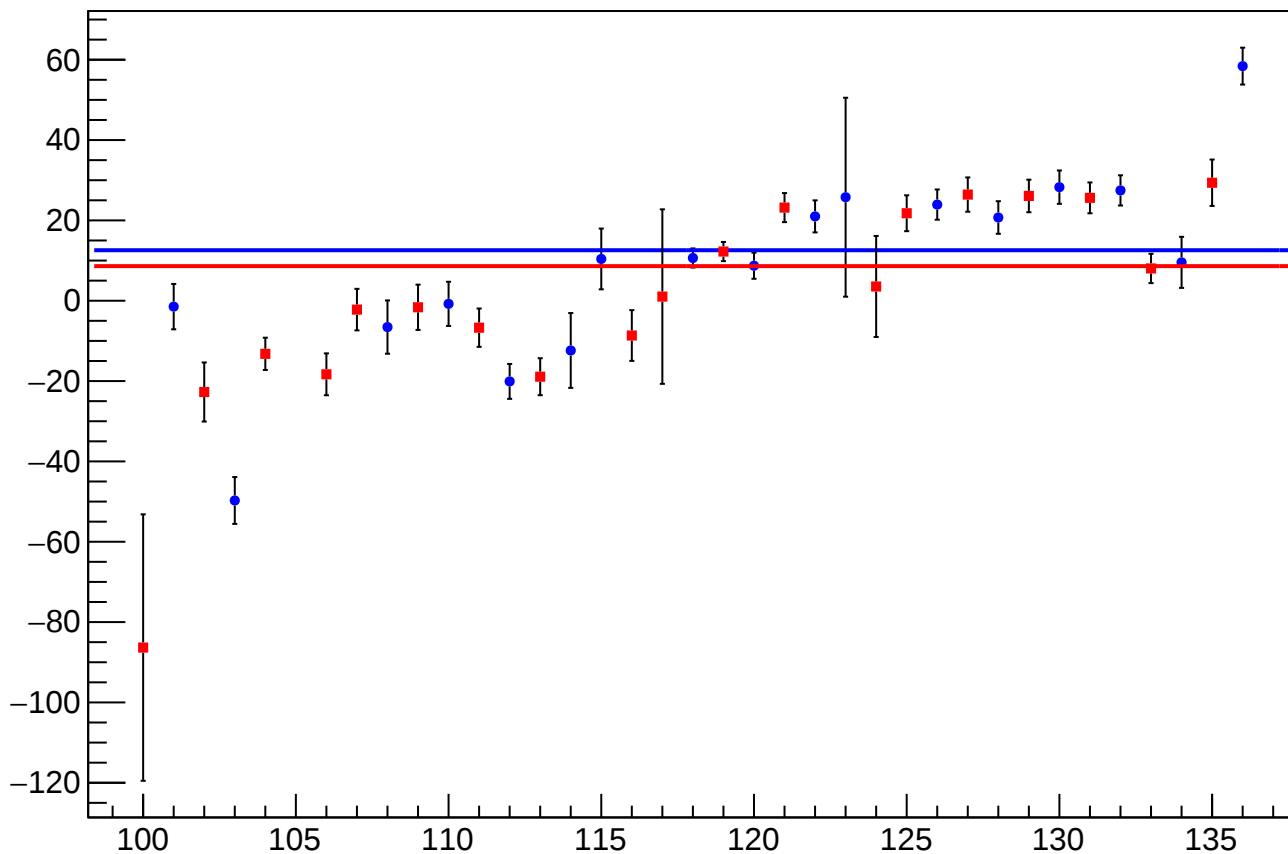
Right Out: 175.073+/-1.700  $\chi^2/\text{NDF}$ : 1154.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

182.351+/-1.784  $\chi^2/\text{NDF}$ : 710.4/16

175.073+/-1.700  $\chi^2/\text{NDF}$ : 1154.8/18

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 12.574+/-1.074  $\chi^2$ /NDF: 348.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

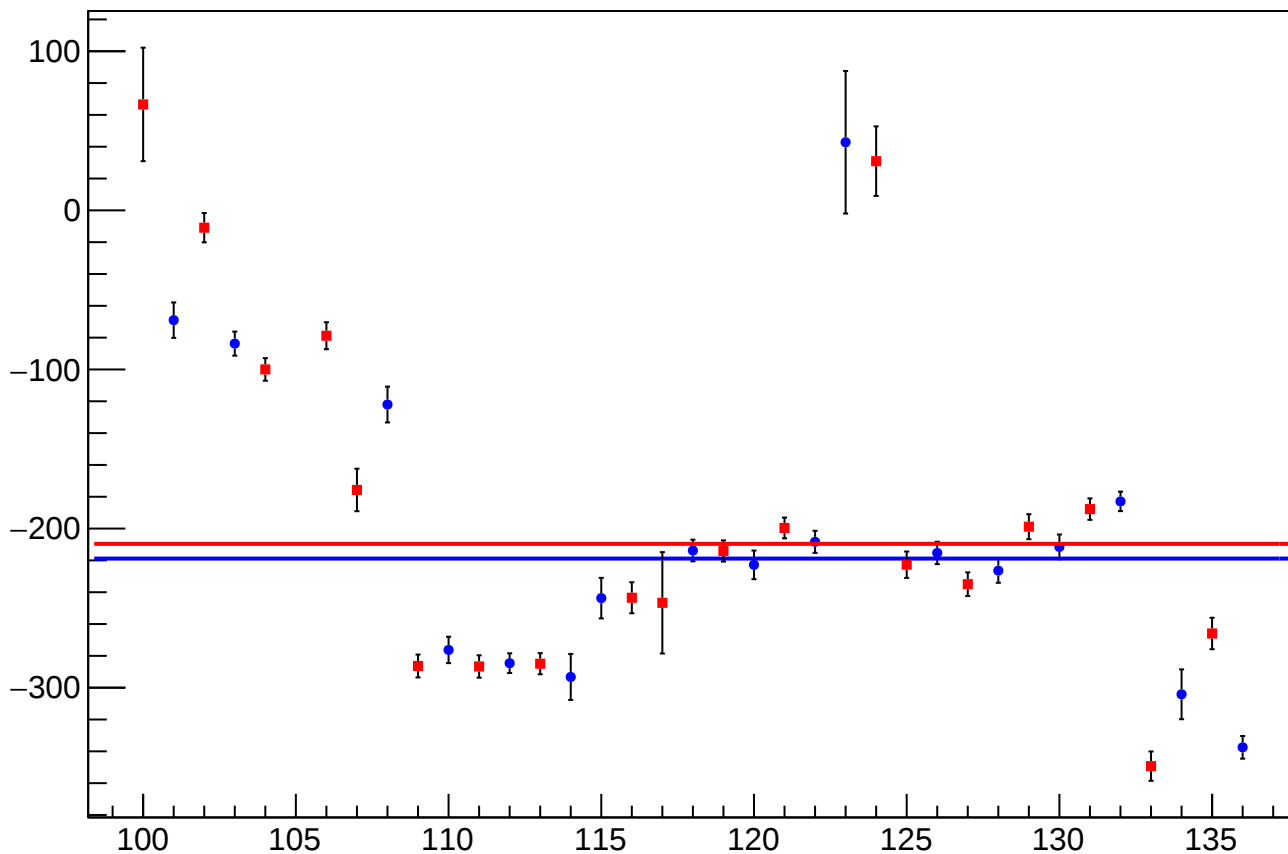
Right Out: 8.611+/-1.053  $\chi^2$ /NDF: 239.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

12.574+/-1.074  $\chi^2$ /NDF: 348.0/16

8.611+/-1.053  $\chi^2$ /NDF: 239.9/18

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -218.855+/-2.023  $\chi^2$ /NDF: 1146.6/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

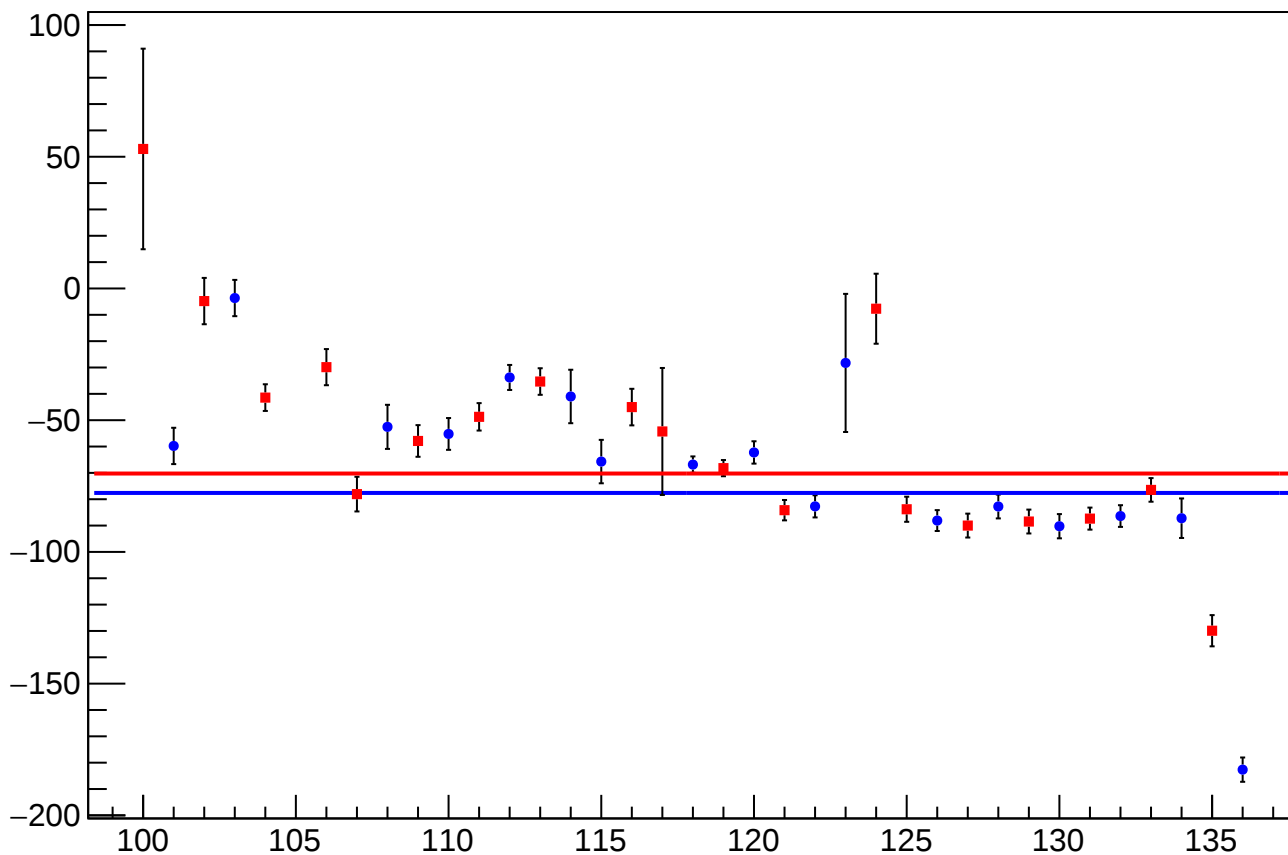
-218.855+/-2.023  $\chi^2$ /NDF: 1146.6/16

Right Out: -209.592+/-1.936  $\chi^2$ /NDF: 1797.5/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-209.592+/-1.936  $\chi^2$ /NDF: 1797.5/18

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: -77.612 $\pm$ 1.236  $\chi^2$ /NDF: 815.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

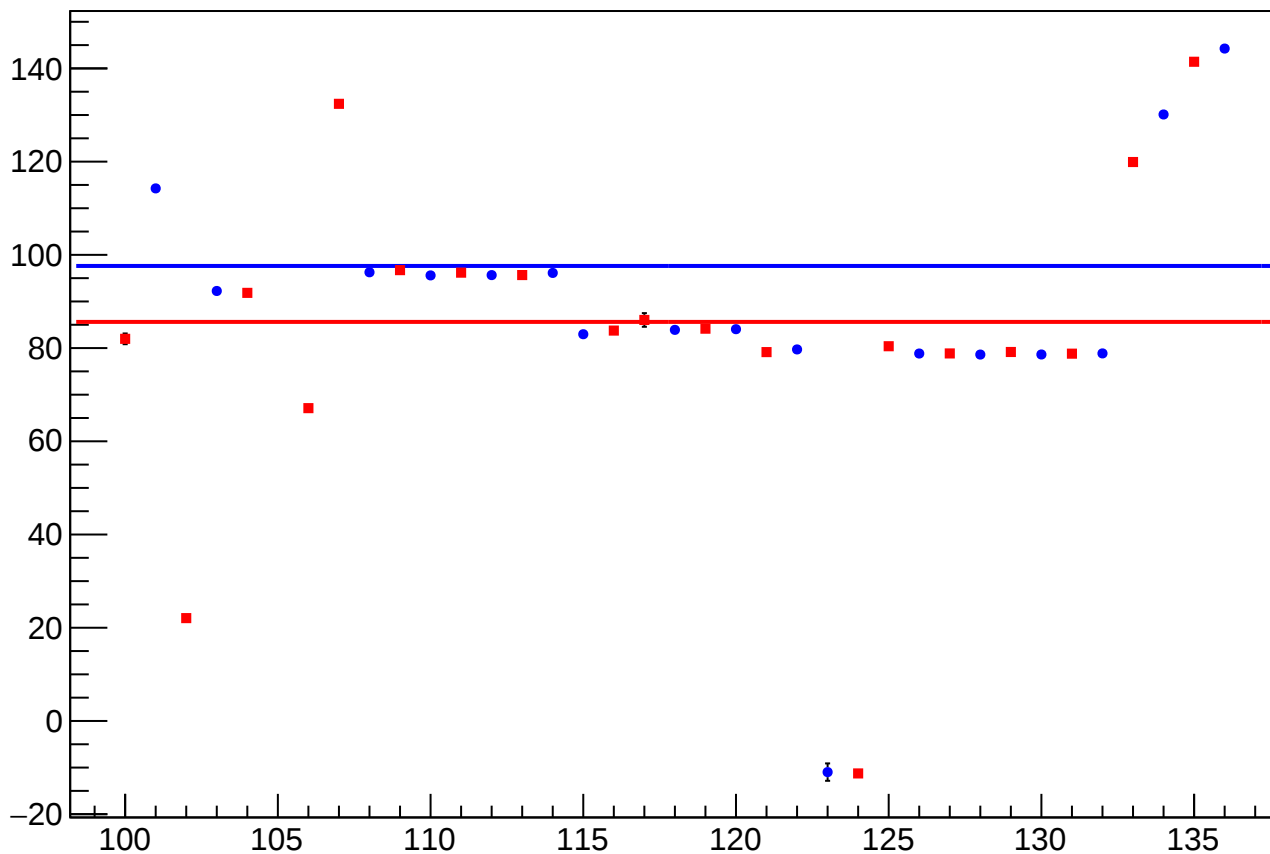
Right Out: -70.246 $\pm$ 1.214  $\chi^2$ /NDF: 416.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-77.612 $\pm$ 1.236  $\chi^2$ /NDF: 815.9/16

-70.246 $\pm$ 1.214  $\chi^2$ /NDF: 416.1/18

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $97.620 \pm 0.074$   $\chi^2/\text{NDF}: 94045.2/16$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

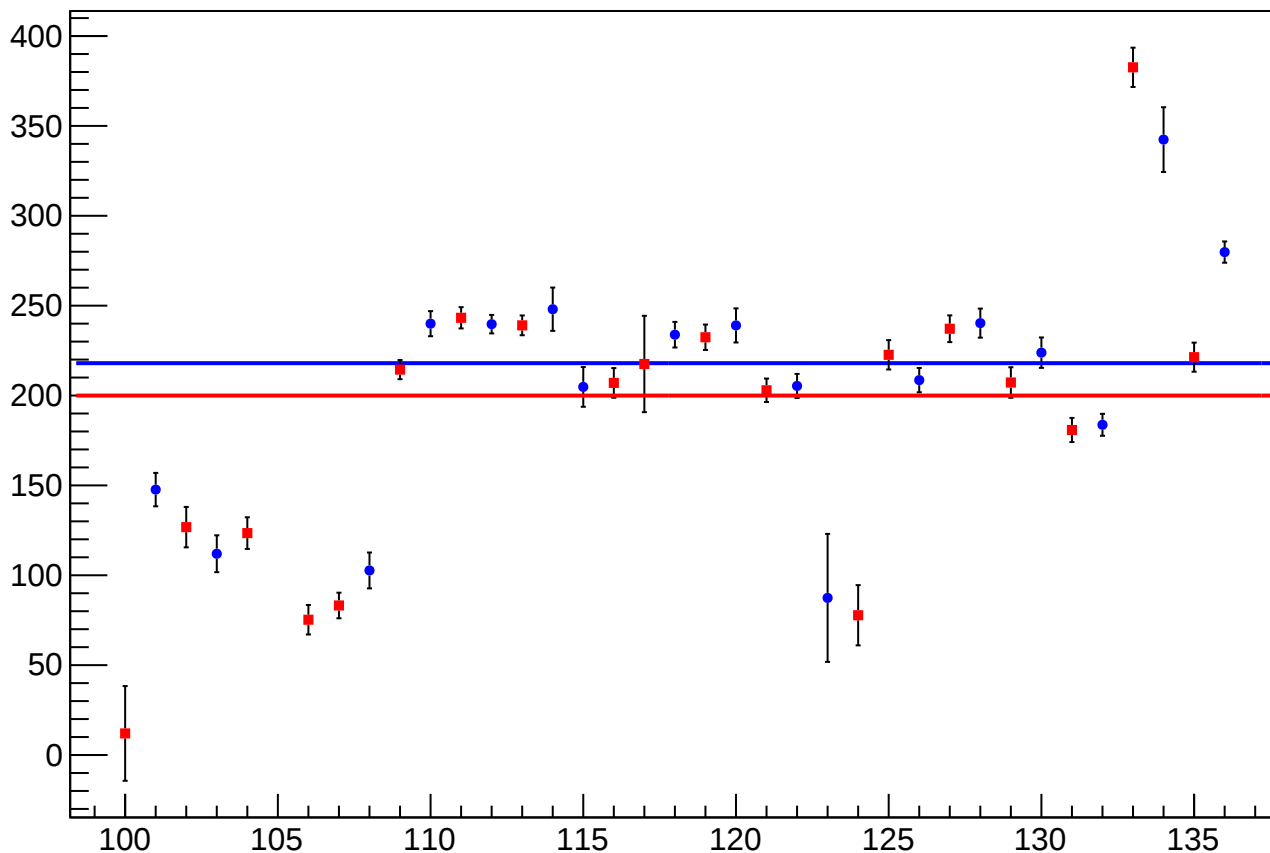
$97.620 \pm 0.074$   $\chi^2/\text{NDF}: 94045.2/16$

Right Out:  $85.615 \pm 0.069$   $\chi^2/\text{NDF}: 201665.5/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$85.615 \pm 0.069$   $\chi^2/\text{NDF}: 201665.5/18$

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aX\_slope vs Slug



Right In: 218.005 $\pm$ 1.932  $\chi^2$ /NDF: 558.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

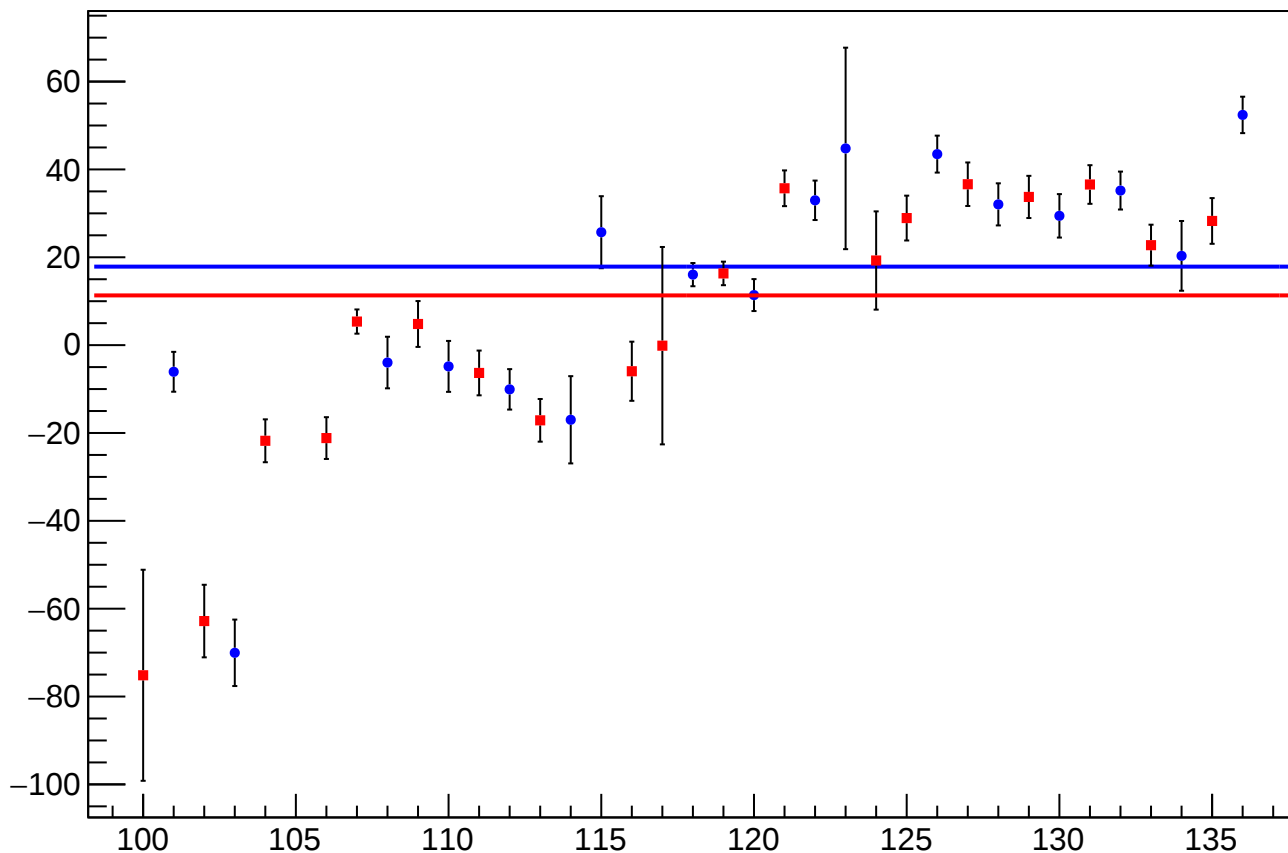
218.005 $\pm$ 1.932  $\chi^2$ /NDF: 558.2/16

Right Out: 199.978 $\pm$ 1.797  $\chi^2$ /NDF: 1182.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

199.978 $\pm$ 1.797  $\chi^2$ /NDF: 1182.8/18

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 17.872+/-1.166  $\chi^2$ /NDF: 395.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

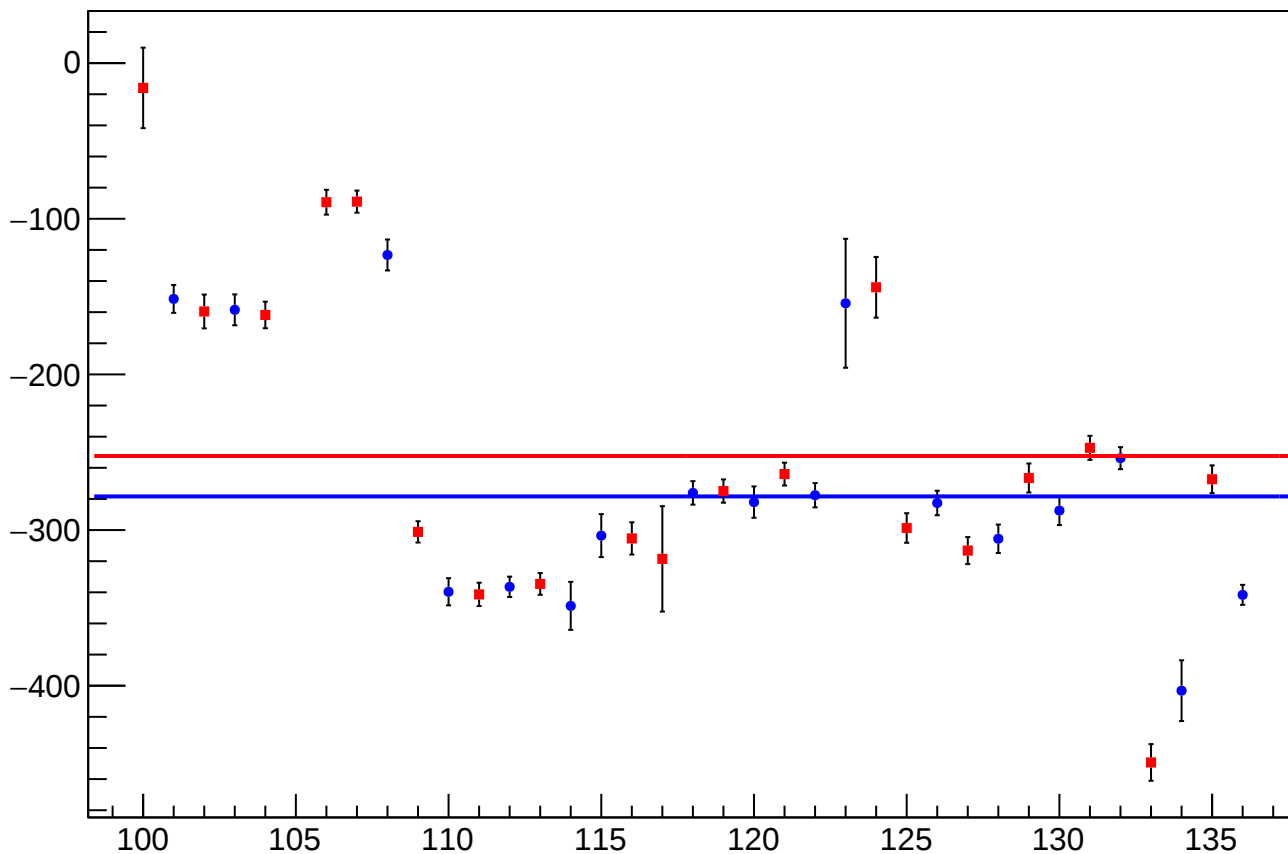
Right Out: 11.319+/-1.091  $\chi^2$ /NDF: 394.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

17.872+/-1.166  $\chi^2$ /NDF: 395.3/16

11.319+/-1.091  $\chi^2$ /NDF: 394.7/18

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -278.380+/-2.185  $\chi^2/\text{NDF}$ : 910.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

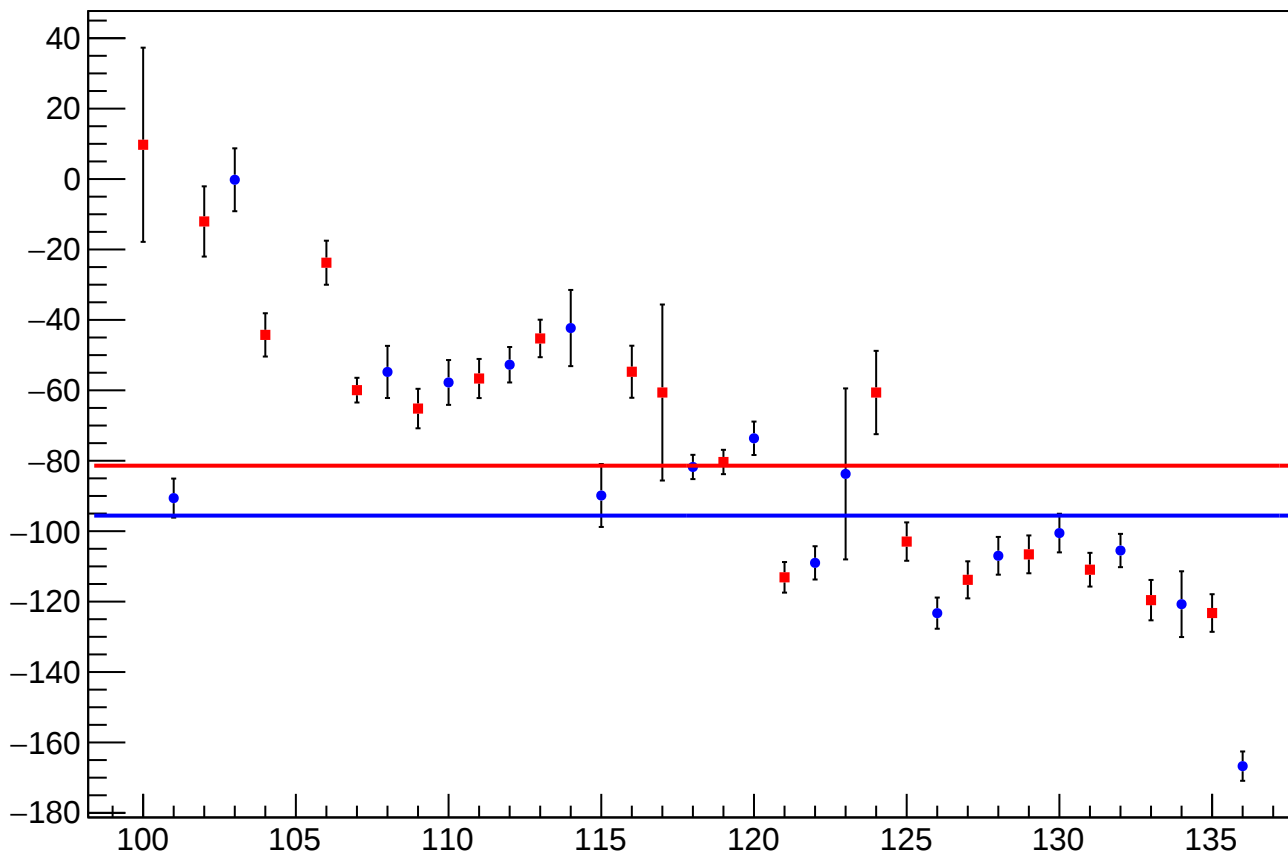
Right Out: -252.400+/-2.039  $\chi^2/\text{NDF}$ : 1976.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-278.380+/-2.185  $\chi^2/\text{NDF}$ : 910.6/16

-252.400+/-2.039  $\chi^2/\text{NDF}$ : 1976.3/18

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -95.576 $\pm$ 1.340  $\chi^2$ /NDF: 671.2/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

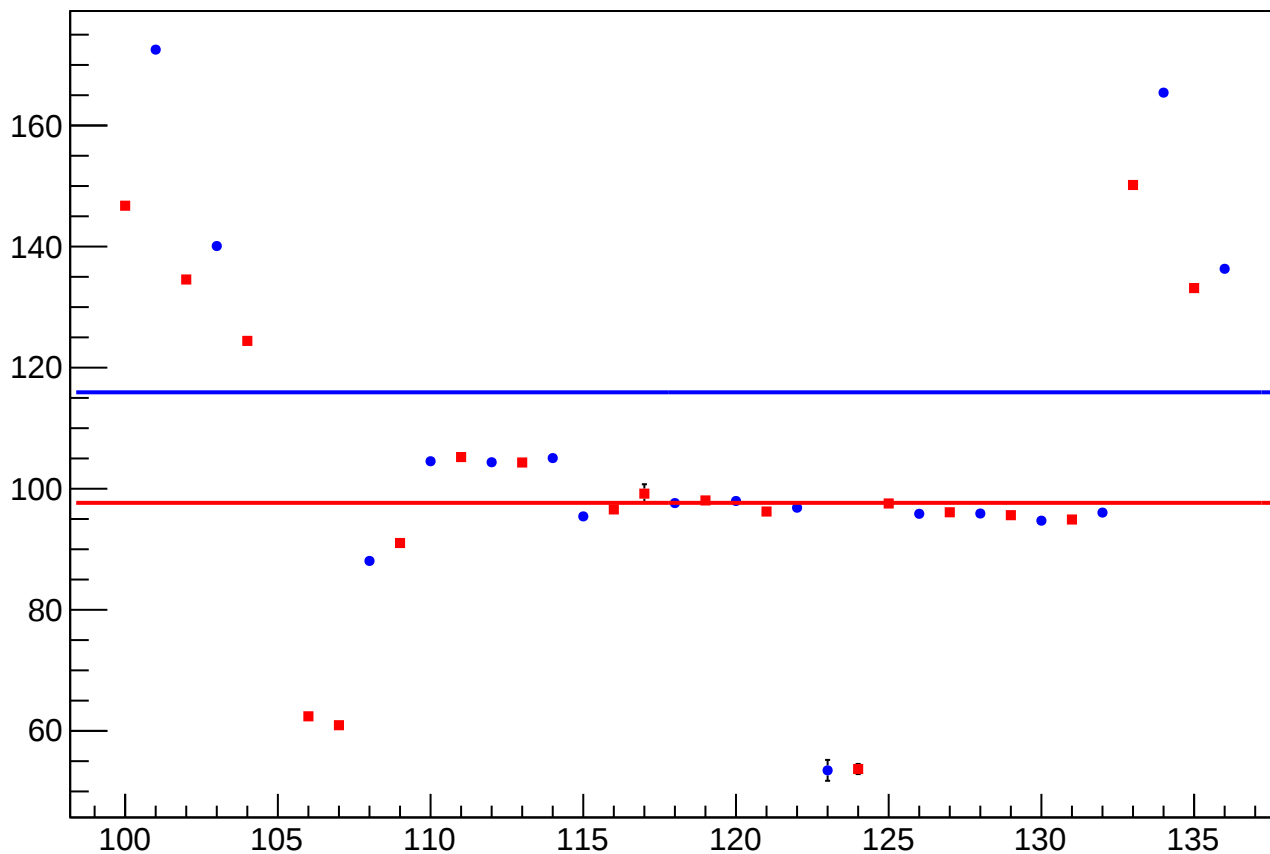
Right Out: -81.400 $\pm$ 1.268  $\chi^2$ /NDF: 581.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-95.576 $\pm$ 1.340  $\chi^2$ /NDF: 671.2/16

-81.400 $\pm$ 1.268  $\chi^2$ /NDF: 581.9/18

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 115.927+/-0.078  $\chi^2/\text{NDF}$ : 105791.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

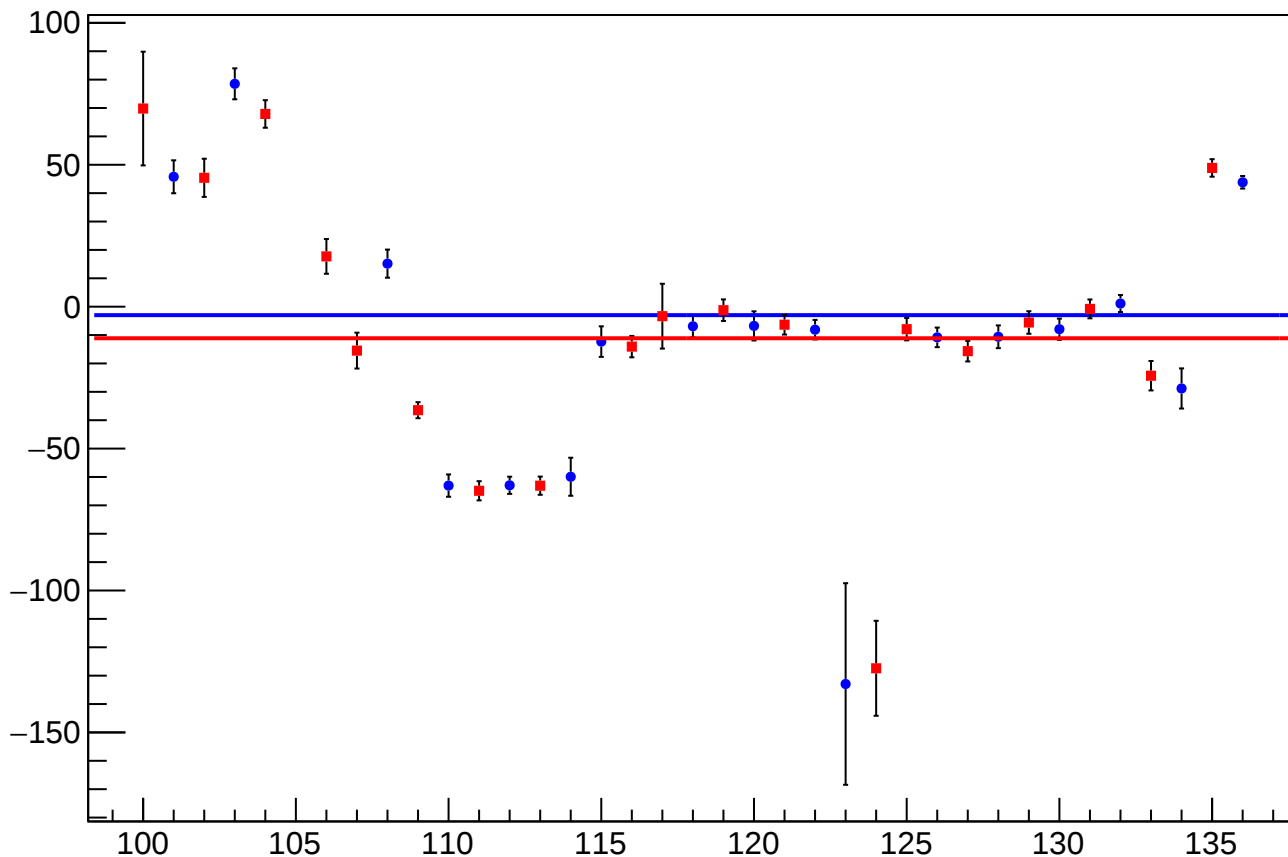
Right Out: 97.670+/-0.070  $\chi^2/\text{NDF}$ : 162908.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

115.927+/-0.078  $\chi^2/\text{NDF}$ : 105791.4/16

97.670+/-0.070  $\chi^2/\text{NDF}$ : 162908.3/18

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: -2.980+/-0.963  $\chi^2$ /NDF: 1500.4/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

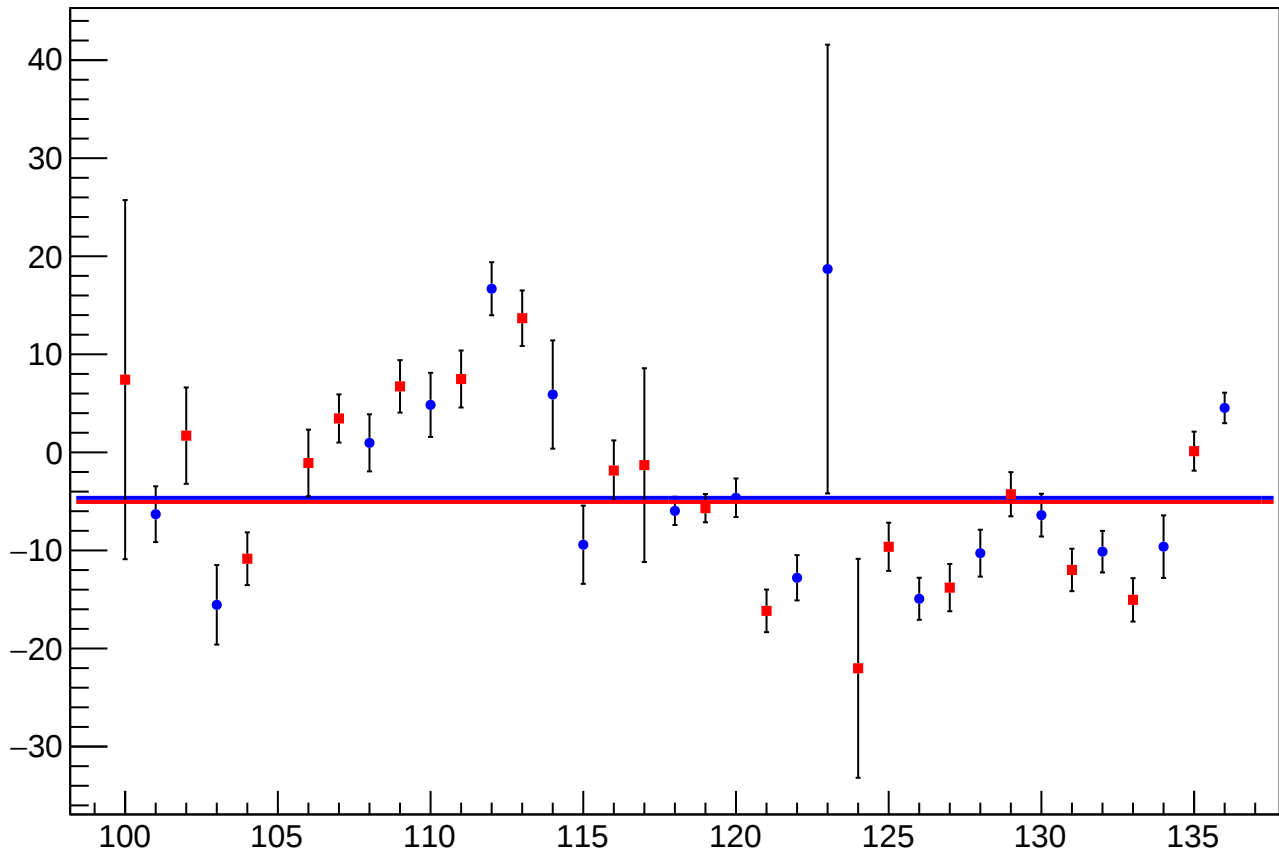
Right Out: -11.125+/-0.954  $\chi^2$ /NDF: 1427.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-2.980+/-0.963  $\chi^2$ /NDF: 1500.4/16

-11.125+/-0.954  $\chi^2$ /NDF: 1427.0/18

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: -4.637+/-0.588  $\chi^2/\text{NDF}$ : 174.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

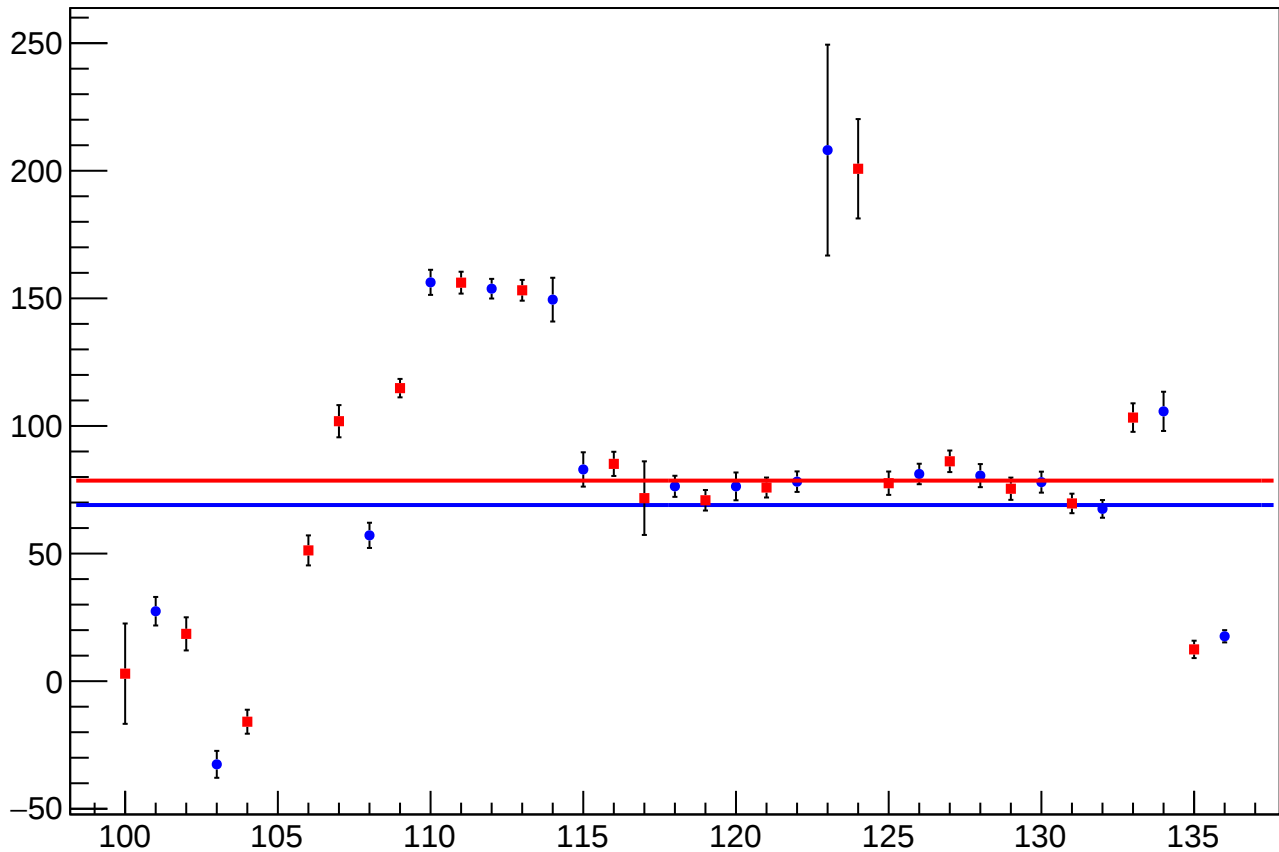
Right Out: -5.054+/-0.593  $\chi^2/\text{NDF}$ : 186.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.637+/-0.588  $\chi^2/\text{NDF}$ : 174.4/16

-5.054+/-0.593  $\chi^2/\text{NDF}$ : 186.1/18

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 69.019+/-1.083  $\chi^2$ /NDF: 1848.0/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

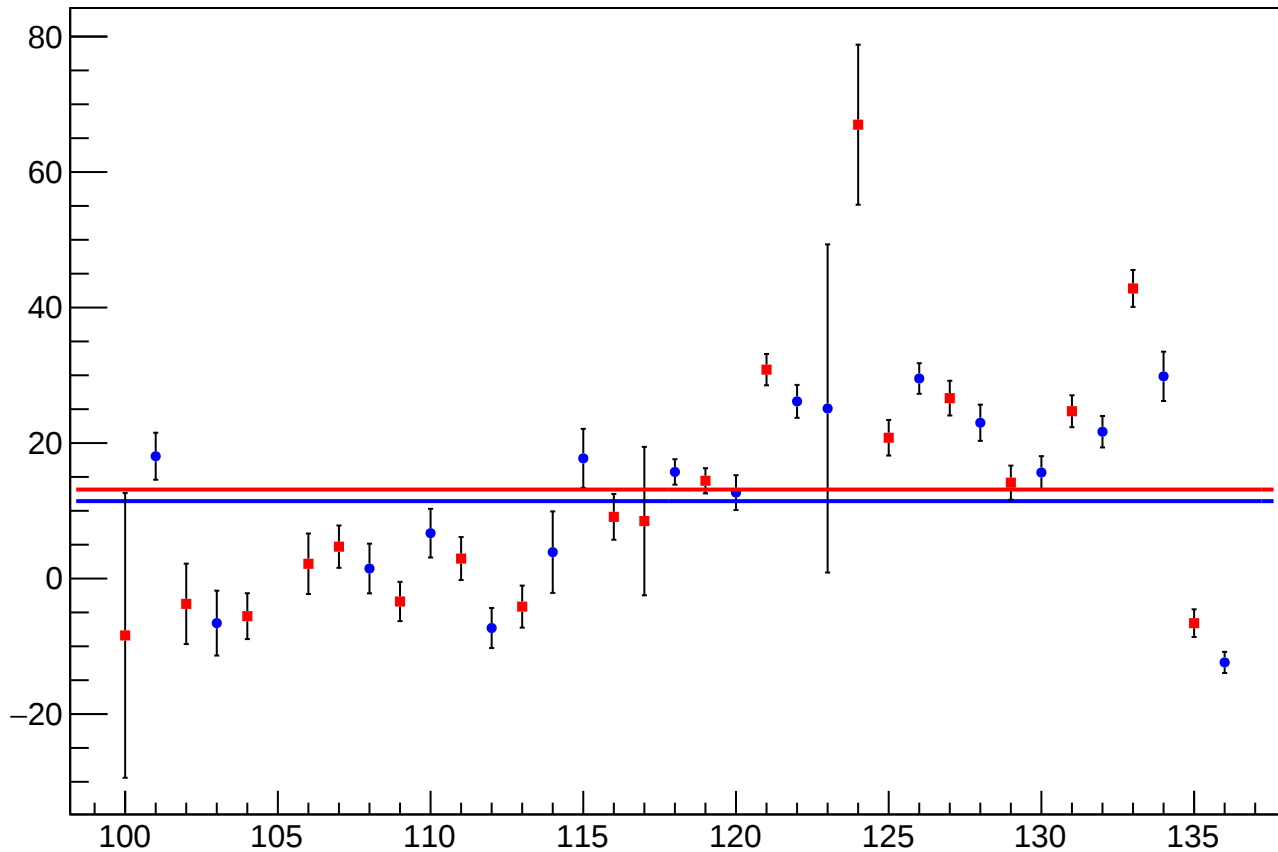
Right Out: 78.588+/-1.091  $\chi^2$ /NDF: 1755.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

69.019+/-1.083  $\chi^2$ /NDF: 1848.0/16

78.588+/-1.091  $\chi^2$ /NDF: 1755.7/18

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 11.428+/-0.665  $\chi^2$ /NDF: 476.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

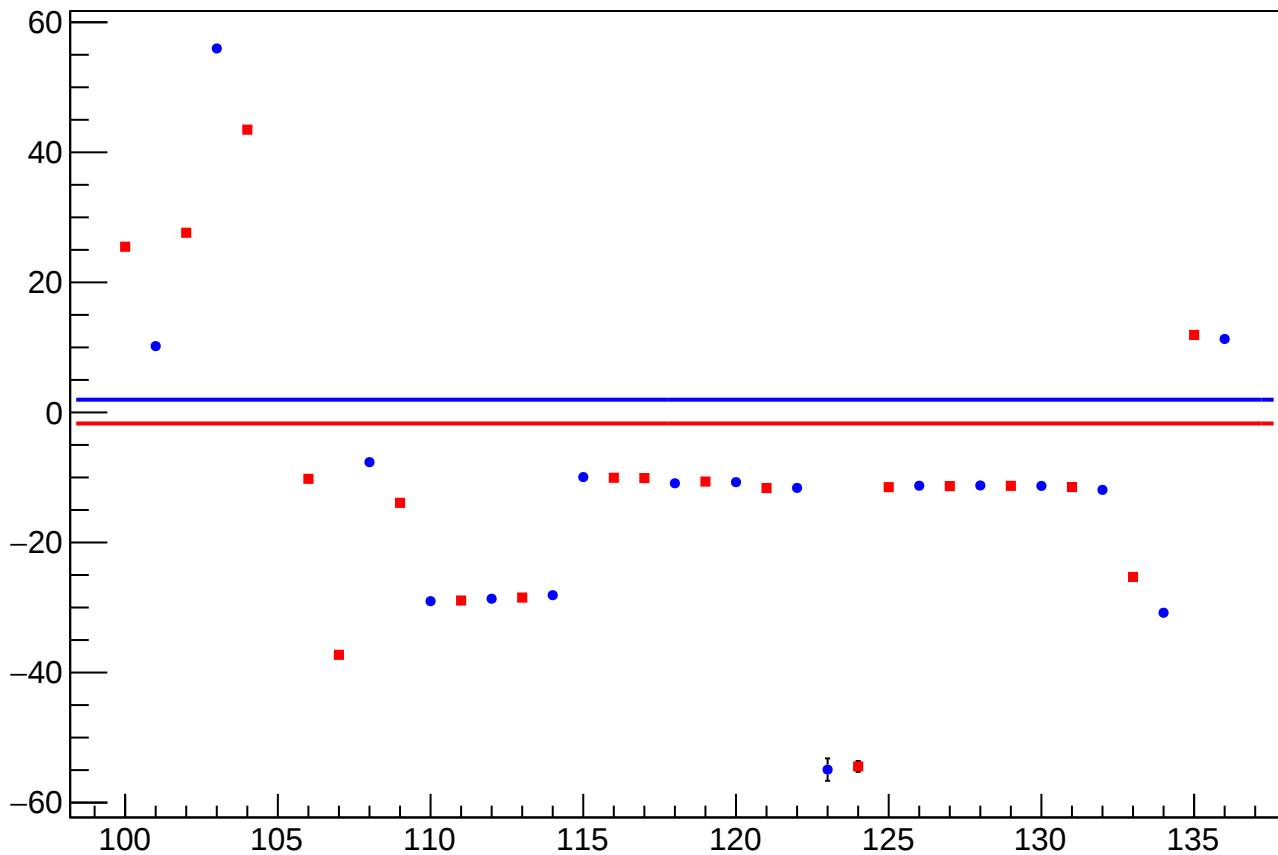
Right Out: 13.138+/-0.677  $\chi^2$ /NDF: 480.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

11.428+/-0.665  $\chi^2$ /NDF: 476.8/16

13.138+/-0.677  $\chi^2$ /NDF: 480.6/18

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 1.960+/-0.037  $\chi^2/\text{NDF}$ : 358457.0/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

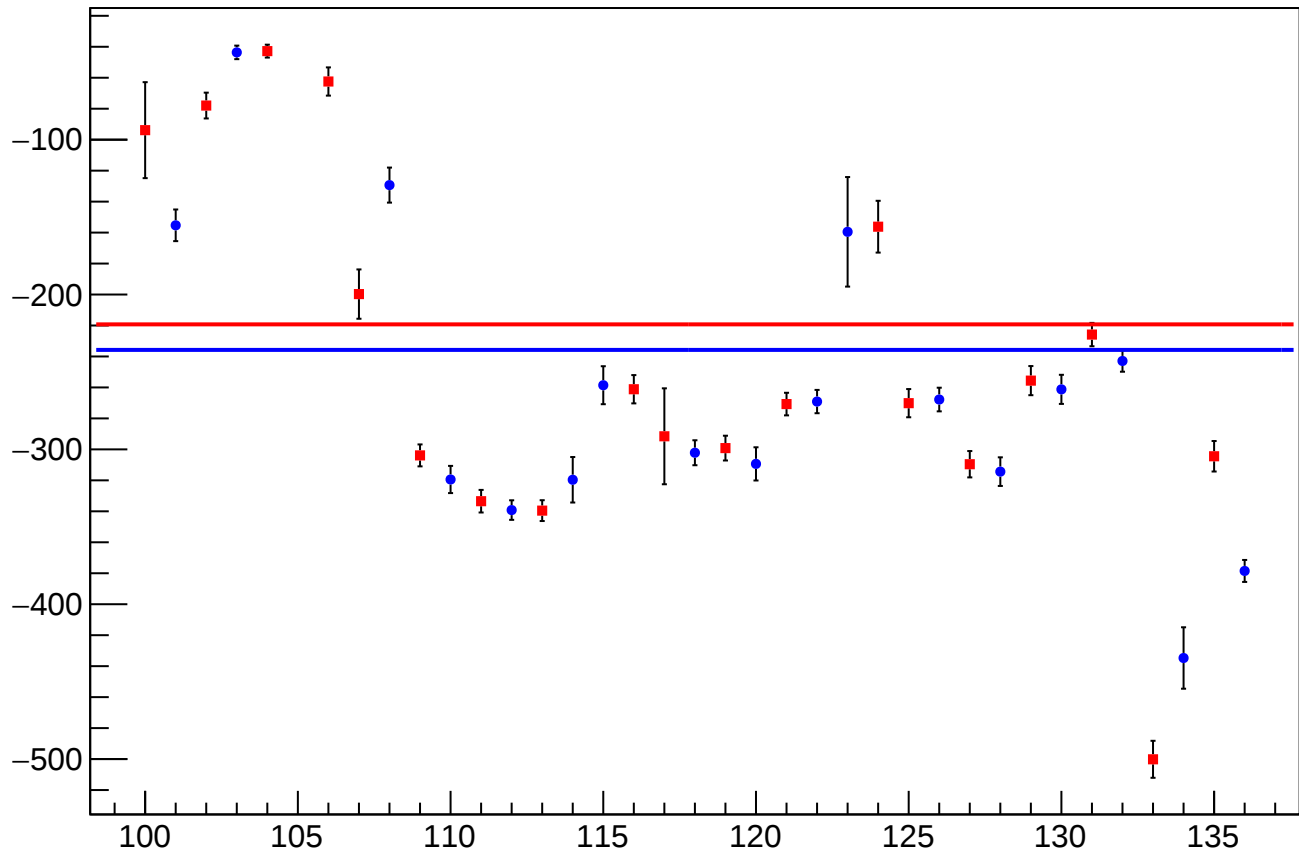
Right Out: -1.697+/-0.039  $\chi^2/\text{NDF}$ : 352869.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.960+/-0.037  $\chi^2/\text{NDF}$ : 358457.0/16

-1.697+/-0.039  $\chi^2/\text{NDF}$ : 352869.1/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aX\_slope vs Slug



Right In:  $-235.761 \pm 2.021$   $\chi^2/\text{NDF}$ : 3220.4/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

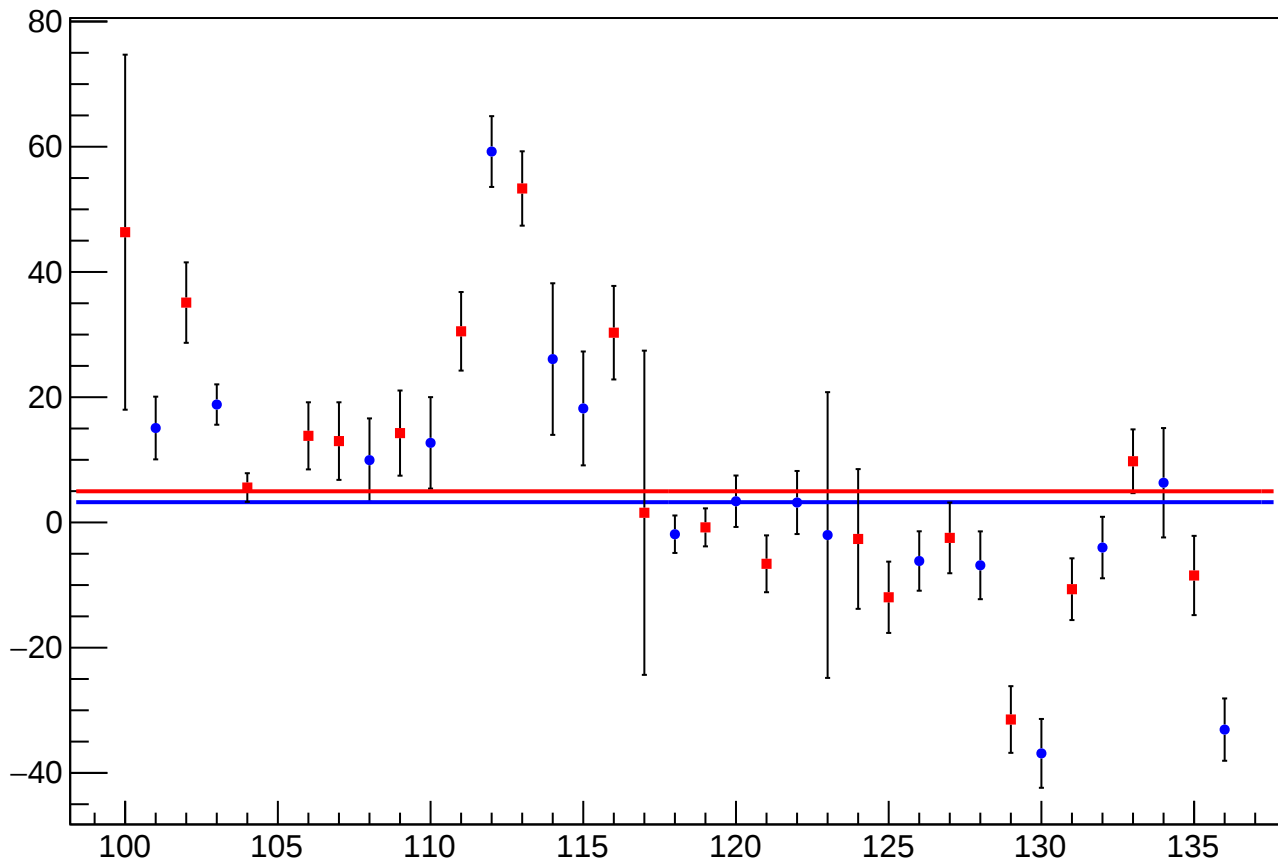
Right Out:  $-219.271 \pm 1.914$   $\chi^2/\text{NDF}$ : 4081.5/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-235.761 \pm 2.021$   $\chi^2/\text{NDF}$ : 3220.4/16

$-219.271 \pm 1.914$   $\chi^2/\text{NDF}$ : 4081.5/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 3.237+/-1.244  $\chi^2/\text{NDF}$ : 255.3/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

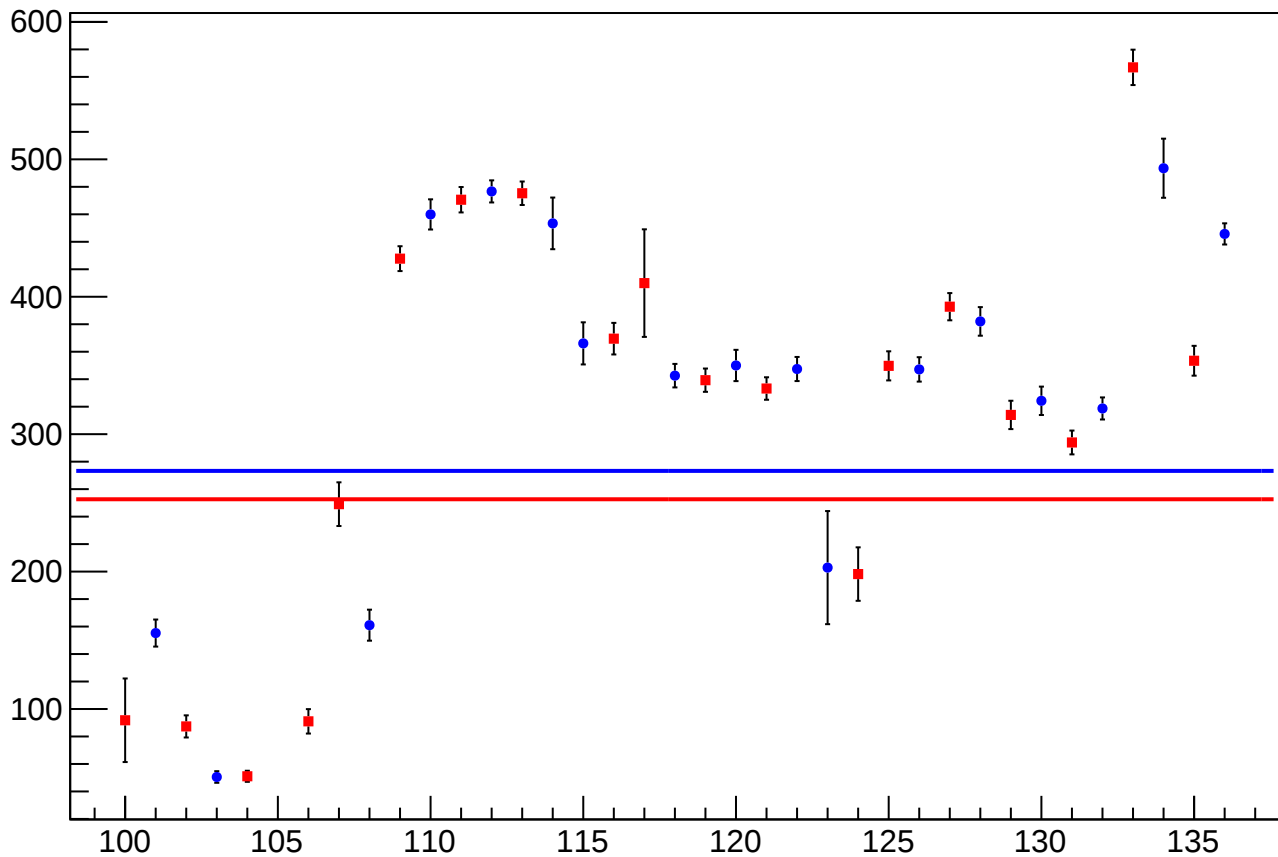
Right Out: 4.976+/-1.163  $\chi^2/\text{NDF}$ : 208.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.237+/-1.244  $\chi^2/\text{NDF}$ : 255.3/16

4.976+/-1.163  $\chi^2/\text{NDF}$ : 208.4/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 273.276+/-2.205  $\chi^2/\text{NDF}$ : 5101.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

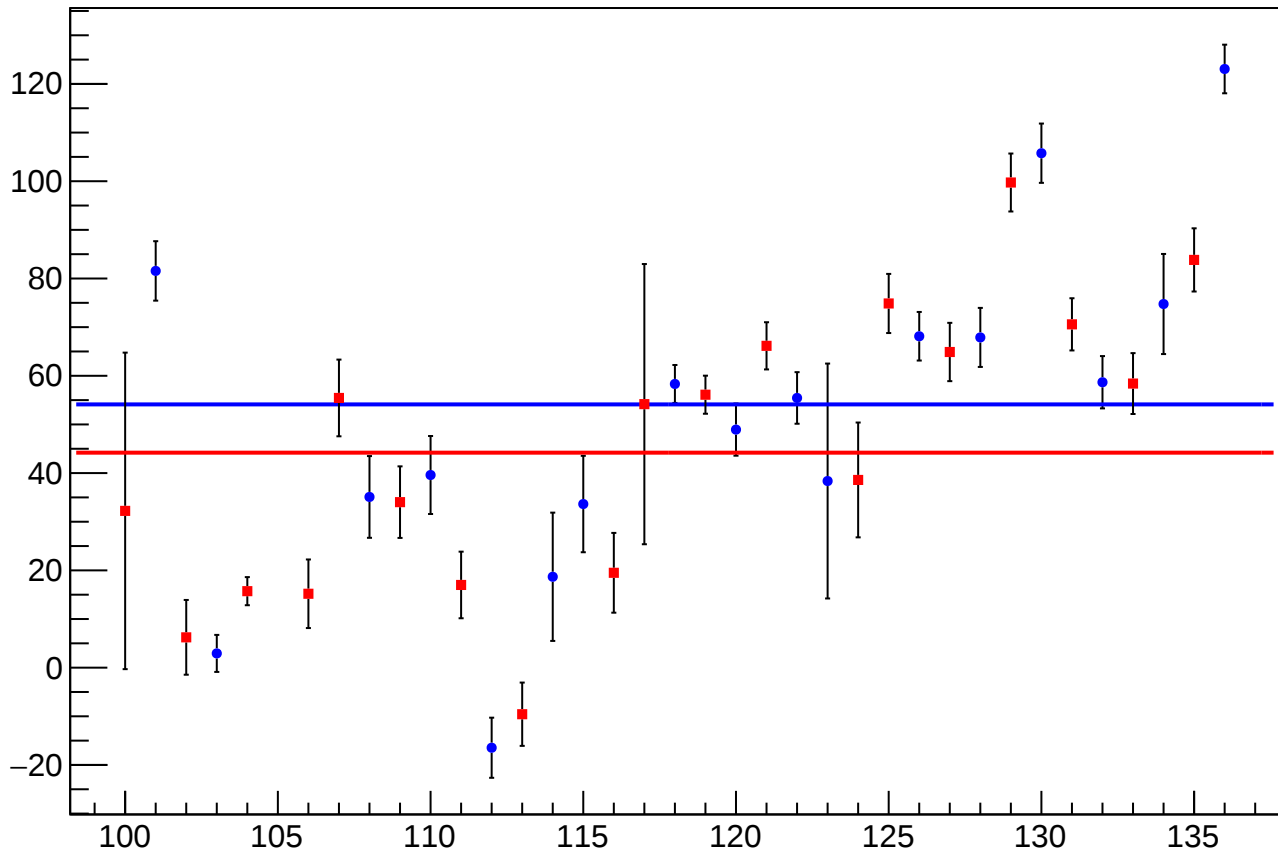
Right Out: 252.628+/-2.093  $\chi^2/\text{NDF}$ : 6241.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

273.276+/-2.205  $\chi^2/\text{NDF}$ : 5101.5/16

252.628+/-2.093  $\chi^2/\text{NDF}$ : 6241.2/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 54.119 $\pm$ 1.438  $\chi^2$ /NDF: 633.9/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

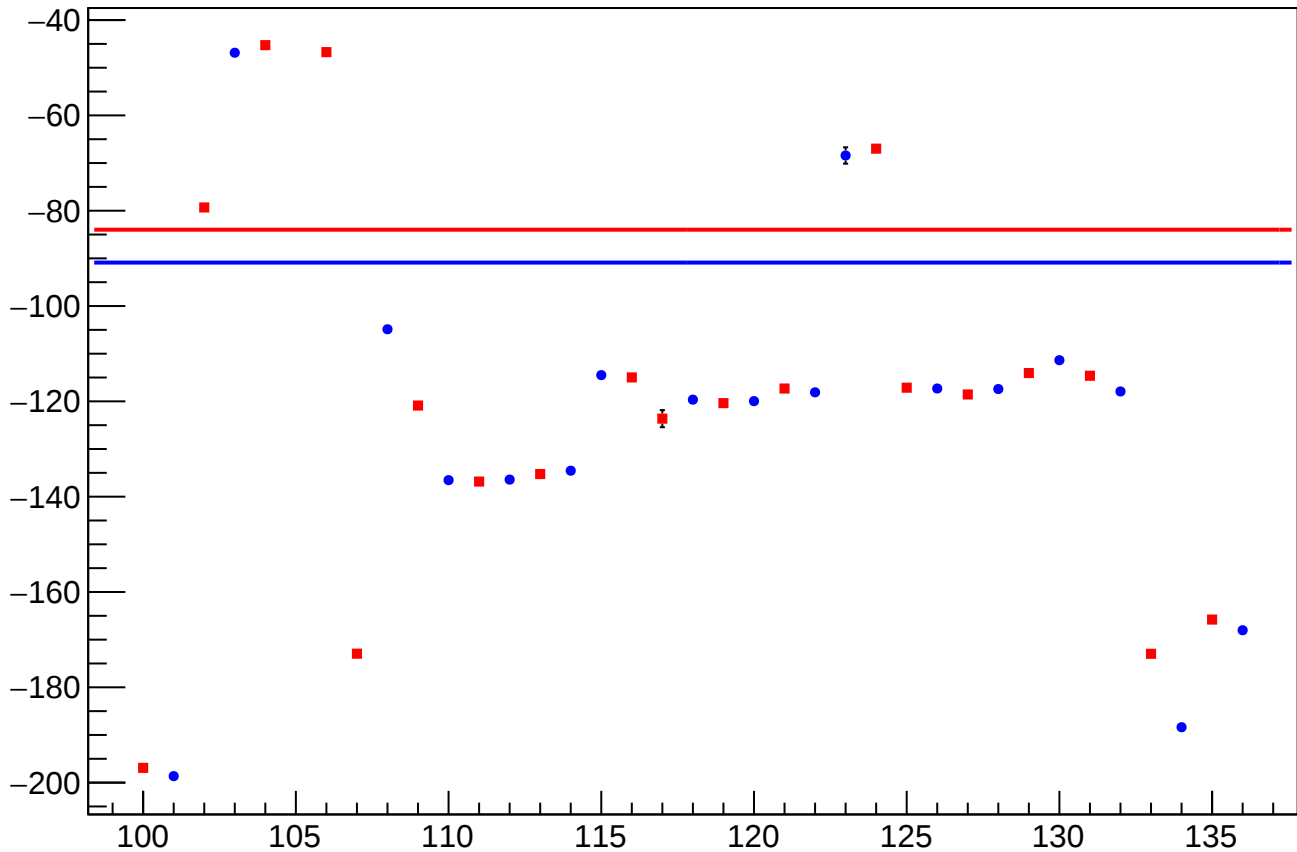
Right Out: 44.197 $\pm$ 1.367  $\chi^2$ /NDF: 456.6/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

54.119 $\pm$ 1.438  $\chi^2$ /NDF: 633.9/16

44.197 $\pm$ 1.367  $\chi^2$ /NDF: 456.6/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -90.881+/-0.068  $\chi^2/\text{NDF}$ : 533423.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

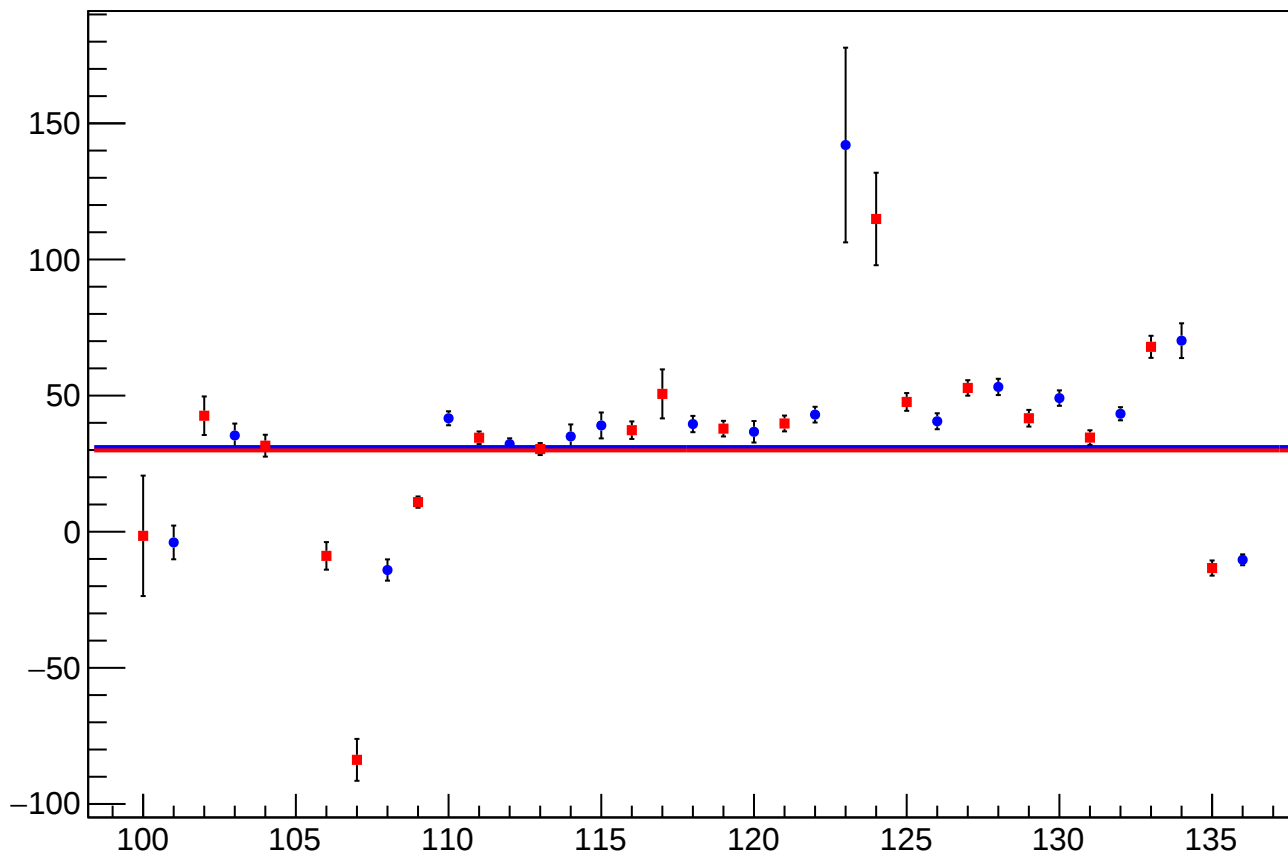
Right Out: -83.984+/-0.066  $\chi^2/\text{NDF}$ : 459343.6/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-90.881+/-0.068  $\chi^2/\text{NDF}$ : 533423.8/16

-83.984+/-0.066  $\chi^2/\text{NDF}$ : 459343.6/18

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aX\_slope vs Slug



Right In: 31.094+/-0.765  $\chi^2/\text{NDF}$ : 824.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

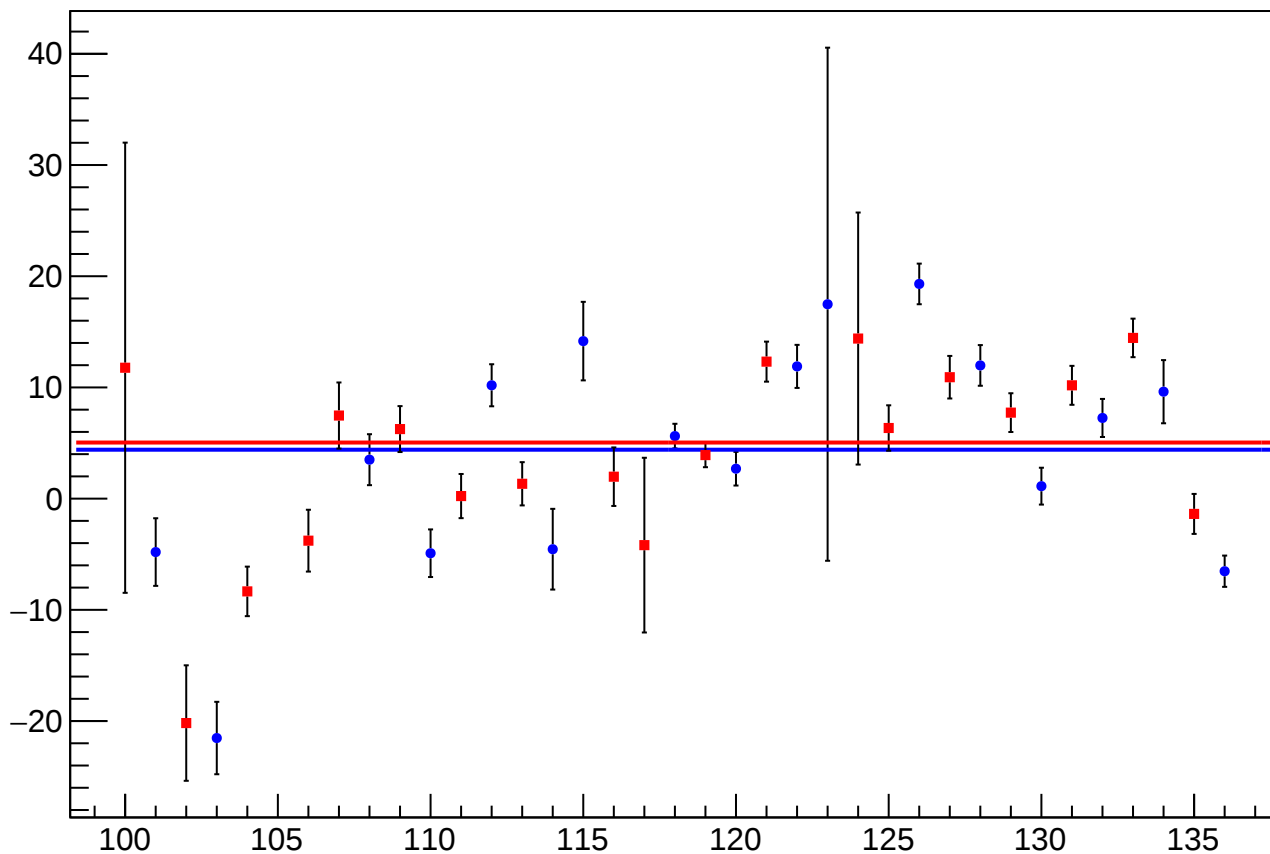
Right Out: 29.871+/-0.751  $\chi^2/\text{NDF}$ : 866.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

31.094+/-0.765  $\chi^2/\text{NDF}$ : 824.2/16

29.871+/-0.751  $\chi^2/\text{NDF}$ : 866.5/18

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 4.399+/-0.471  $\chi^2/\text{NDF}$ : 286.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

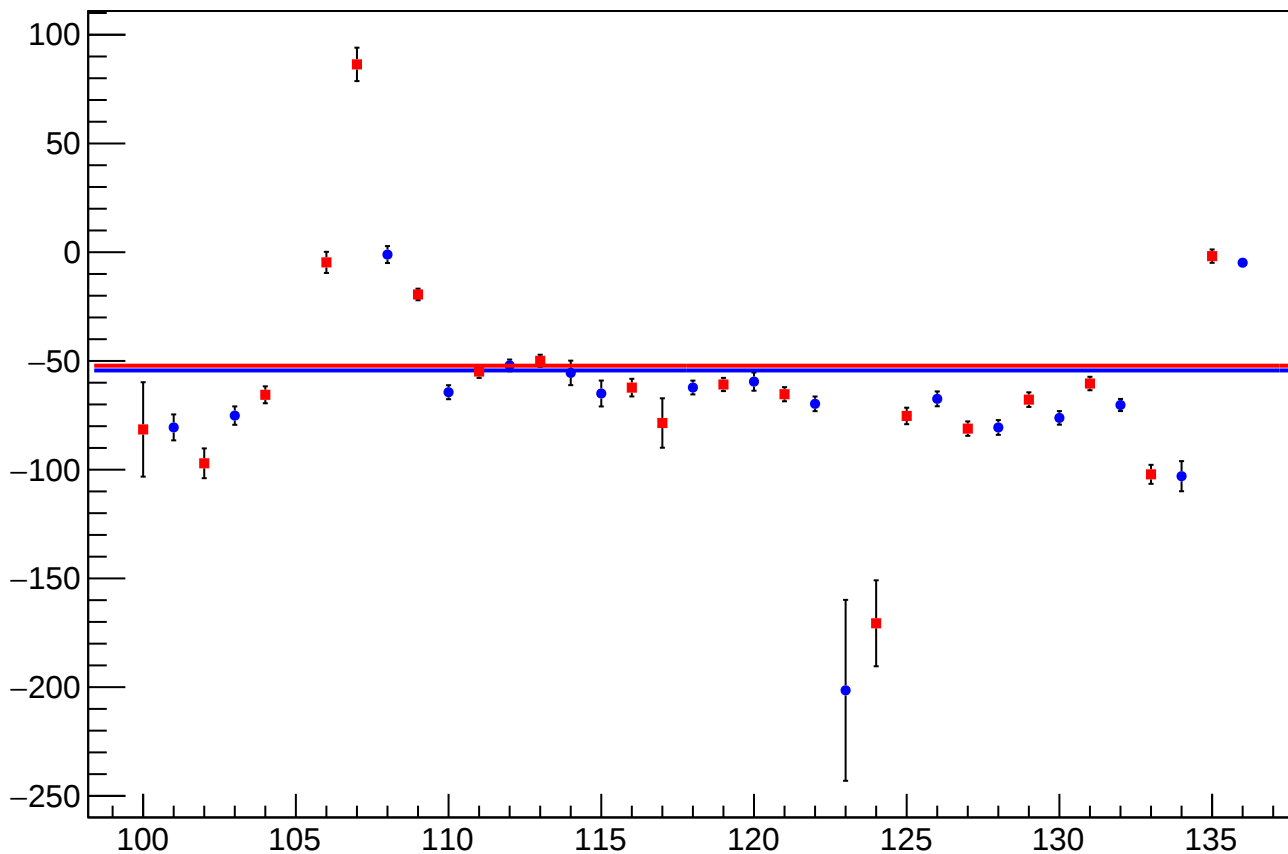
Right Out: 5.044+/-0.479  $\chi^2/\text{NDF}$ : 164.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.399+/-0.471  $\chi^2/\text{NDF}$ : 286.8/16

5.044+/-0.479  $\chi^2/\text{NDF}$ : 164.4/18

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -54.365+/-0.868  $\chi^2/\text{NDF}$ : 1013.5/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

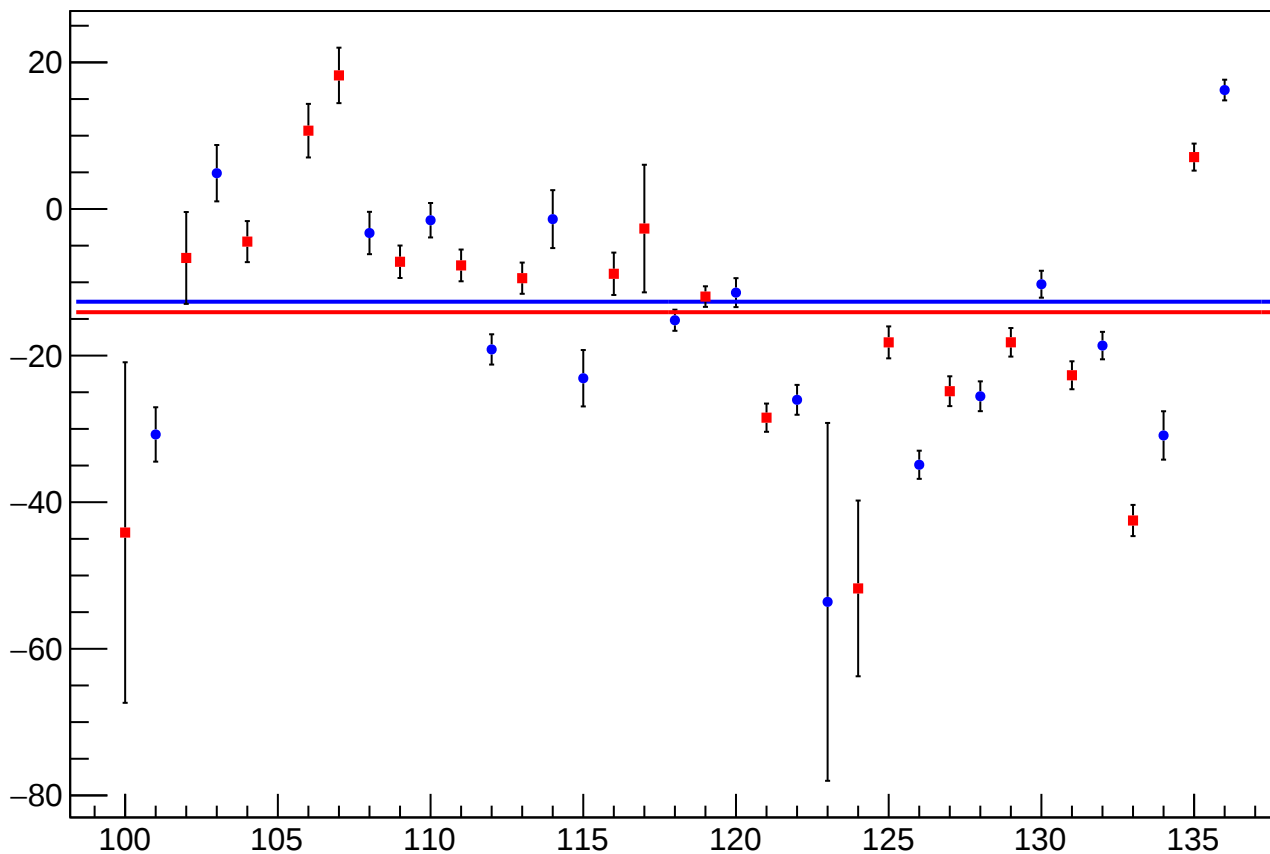
Right Out: -52.178+/-0.870  $\chi^2/\text{NDF}$ : 1244.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-54.365+/-0.868  $\chi^2/\text{NDF}$ : 1013.5/16

-52.178+/-0.870  $\chi^2/\text{NDF}$ : 1244.3/18

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-12.648 \pm 0.536$   $\chi^2/\text{NDF}$ : 788.4/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

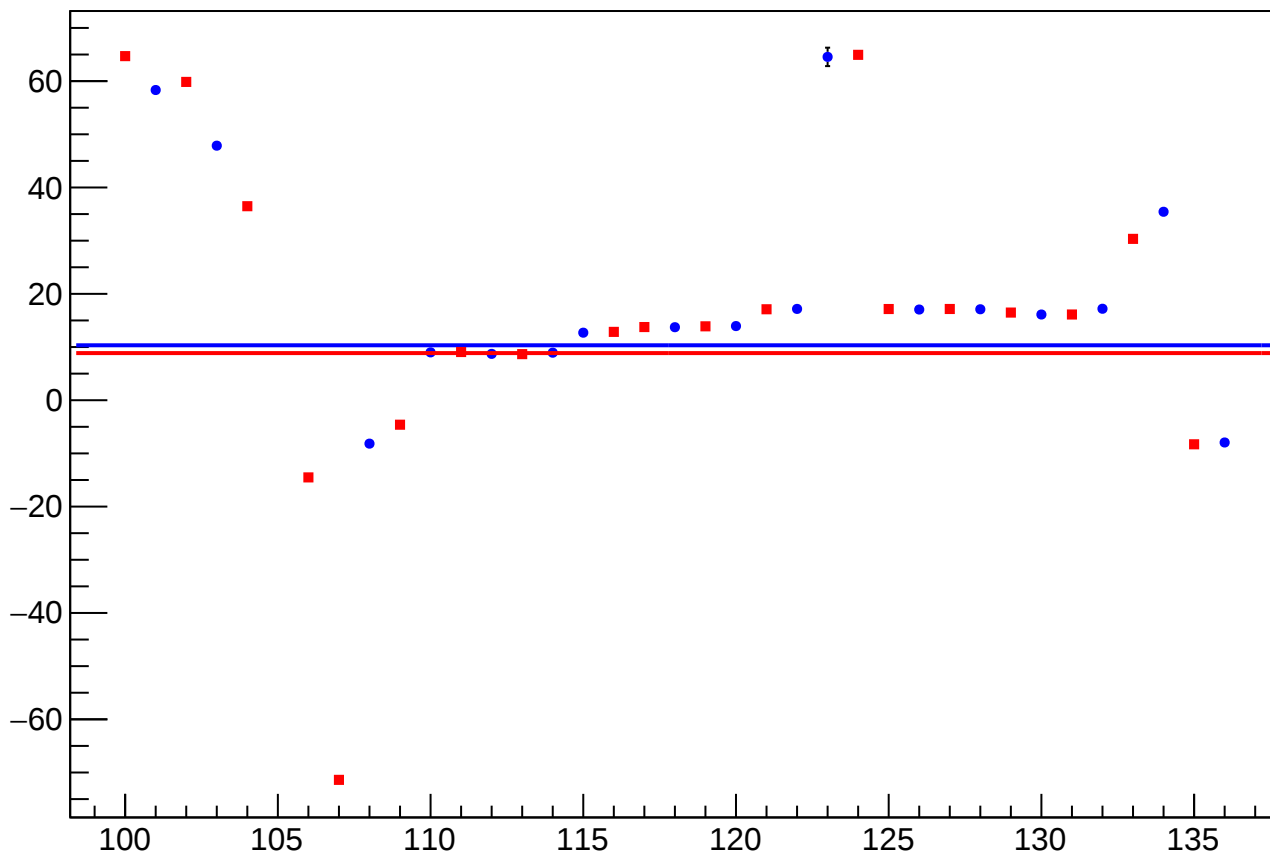
Right Out:  $-14.079 \pm 0.546$   $\chi^2/\text{NDF}$ : 596.3/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-12.648 \pm 0.536$   $\chi^2/\text{NDF}$ : 788.4/16

$-14.079 \pm 0.546$   $\chi^2/\text{NDF}$ : 596.3/18

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $10.330 \pm 0.031$   $\chi^2/\text{NDF}$ : 380857.1/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

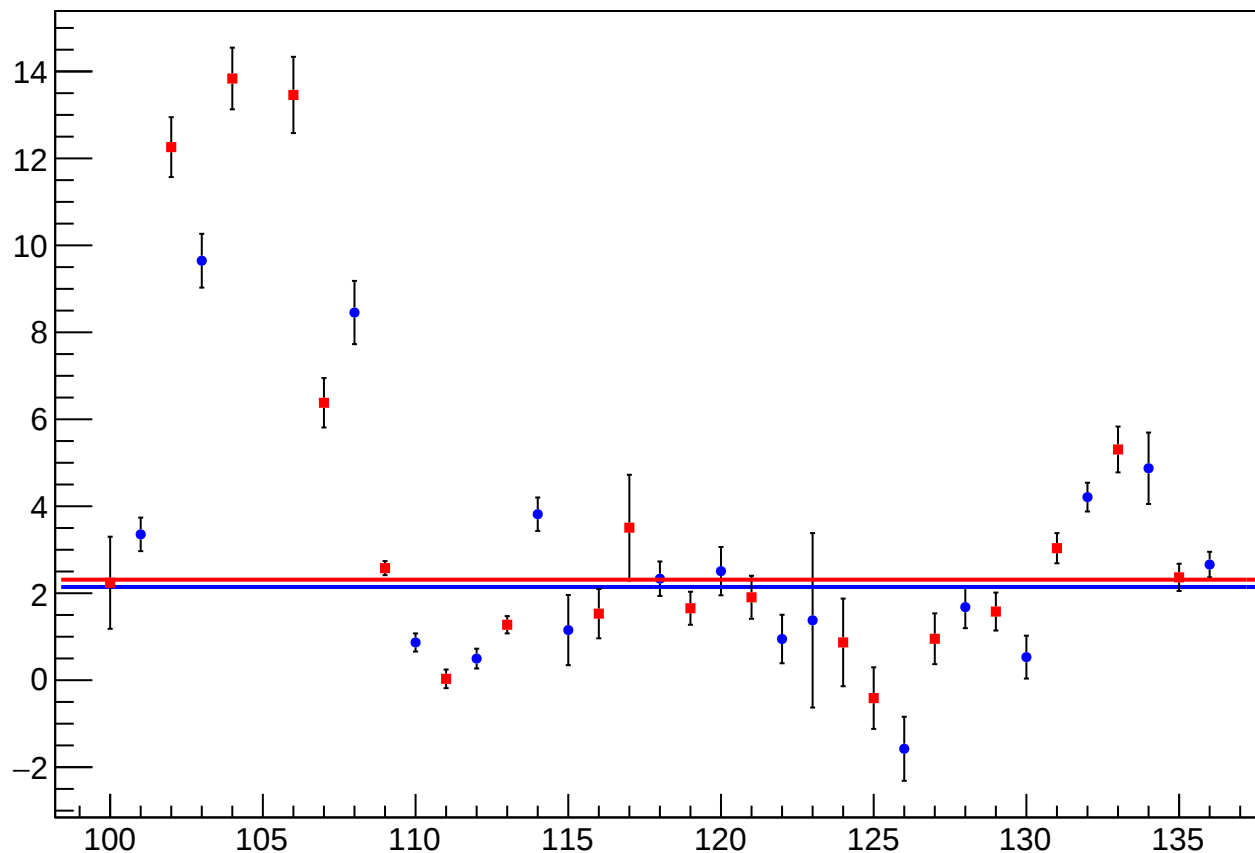
Right Out:  $8.862 \pm 0.032$   $\chi^2/\text{NDF}$ : 527453.9/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$10.330 \pm 0.031$   $\chi^2/\text{NDF}$ : 380857.1/16

$8.862 \pm 0.032$   $\chi^2/\text{NDF}$ : 527453.9/18

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aX\_slope vs Slug



Right In: 2.144+/-0.097  $\chi^2/\text{NDF}$ : 438.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

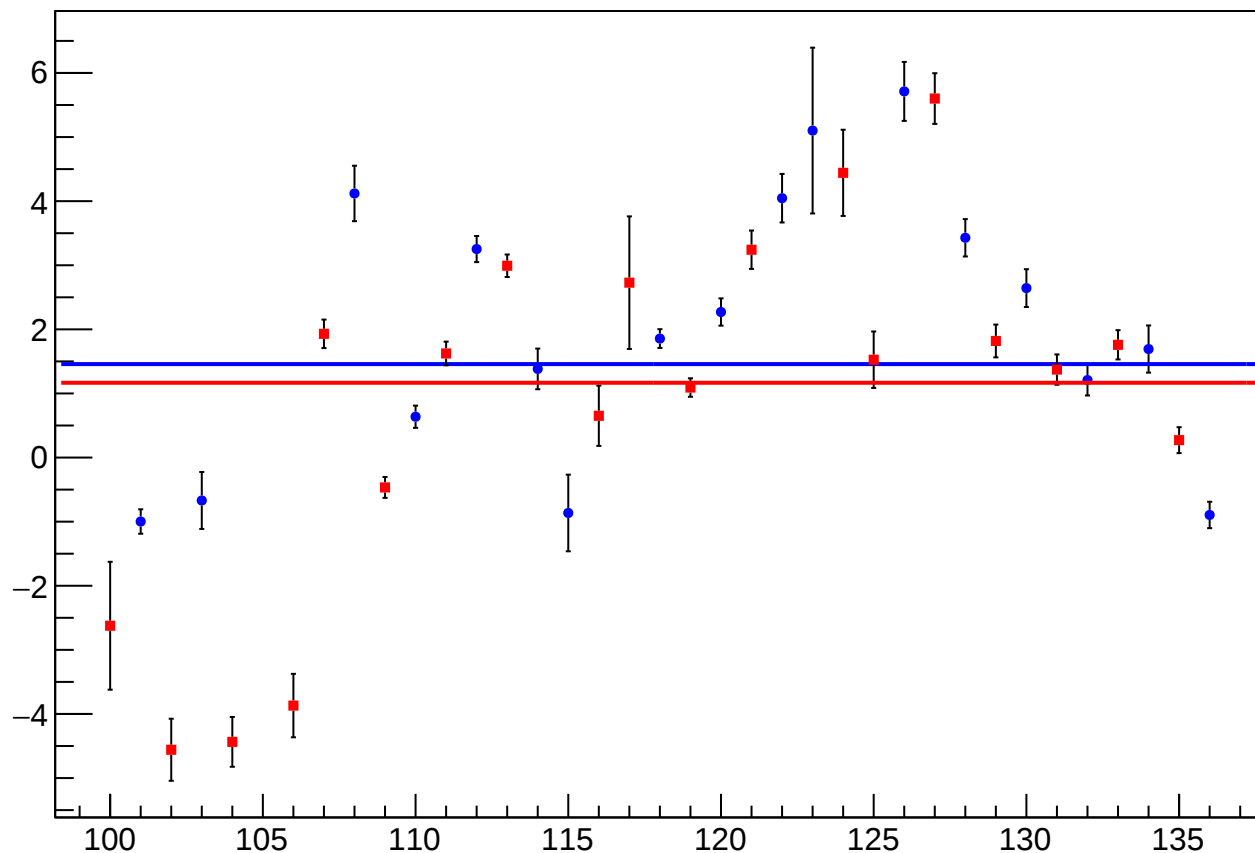
Right Out: 2.312+/-0.084  $\chi^2/\text{NDF}$ : 897.4/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.144+/-0.097  $\chi^2/\text{NDF}$ : 438.1/16

2.312+/-0.084  $\chi^2/\text{NDF}$ : 897.4/18

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug



Right In: 1.458+/-0.062  $\chi^2/\text{NDF}$ : 698.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

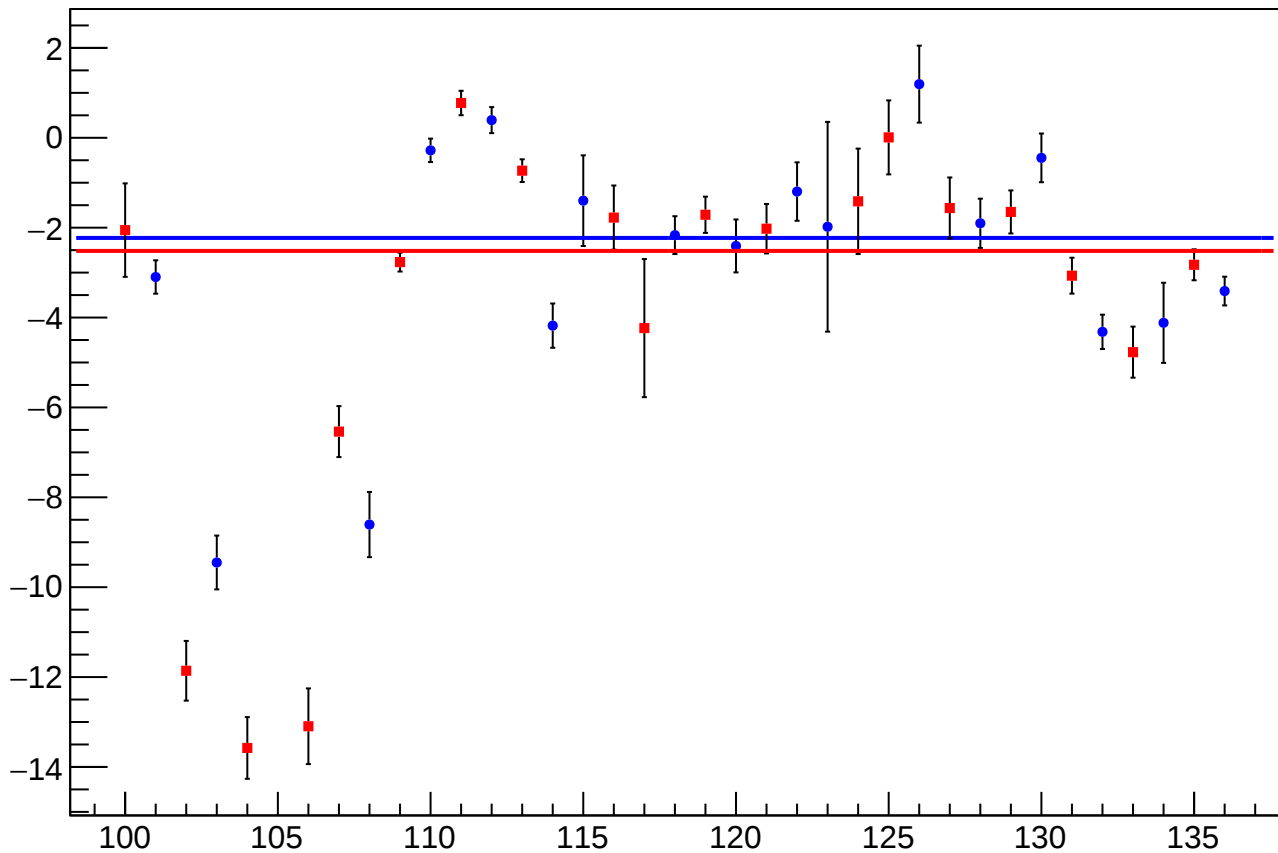
Right Out: 1.167+/-0.059  $\chi^2/\text{NDF}$ : 928.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.458+/-0.062  $\chi^2/\text{NDF}$ : 698.2/16

1.167+/-0.059  $\chi^2/\text{NDF}$ : 928.3/18

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug



Right In: -2.228+/-0.111  $\chi^2/\text{NDF}$ : 460.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

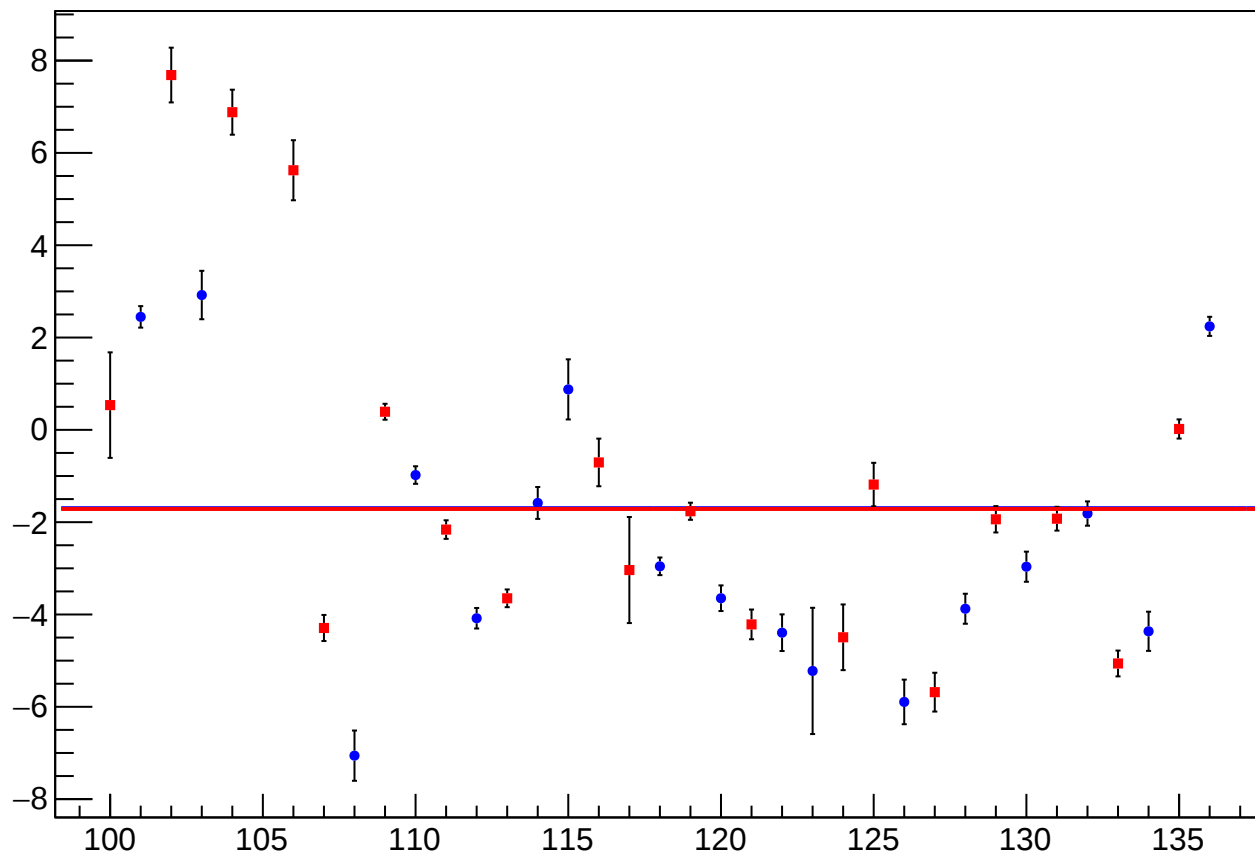
Right Out: -2.517+/-0.100  $\chi^2/\text{NDF}$ : 904.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.228+/-0.111  $\chi^2/\text{NDF}$ : 460.4/16

-2.517+/-0.100  $\chi^2/\text{NDF}$ : 904.8/18

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug



Right In: -1.697+/-0.071  $\chi^2/\text{NDF}$ : 1319.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

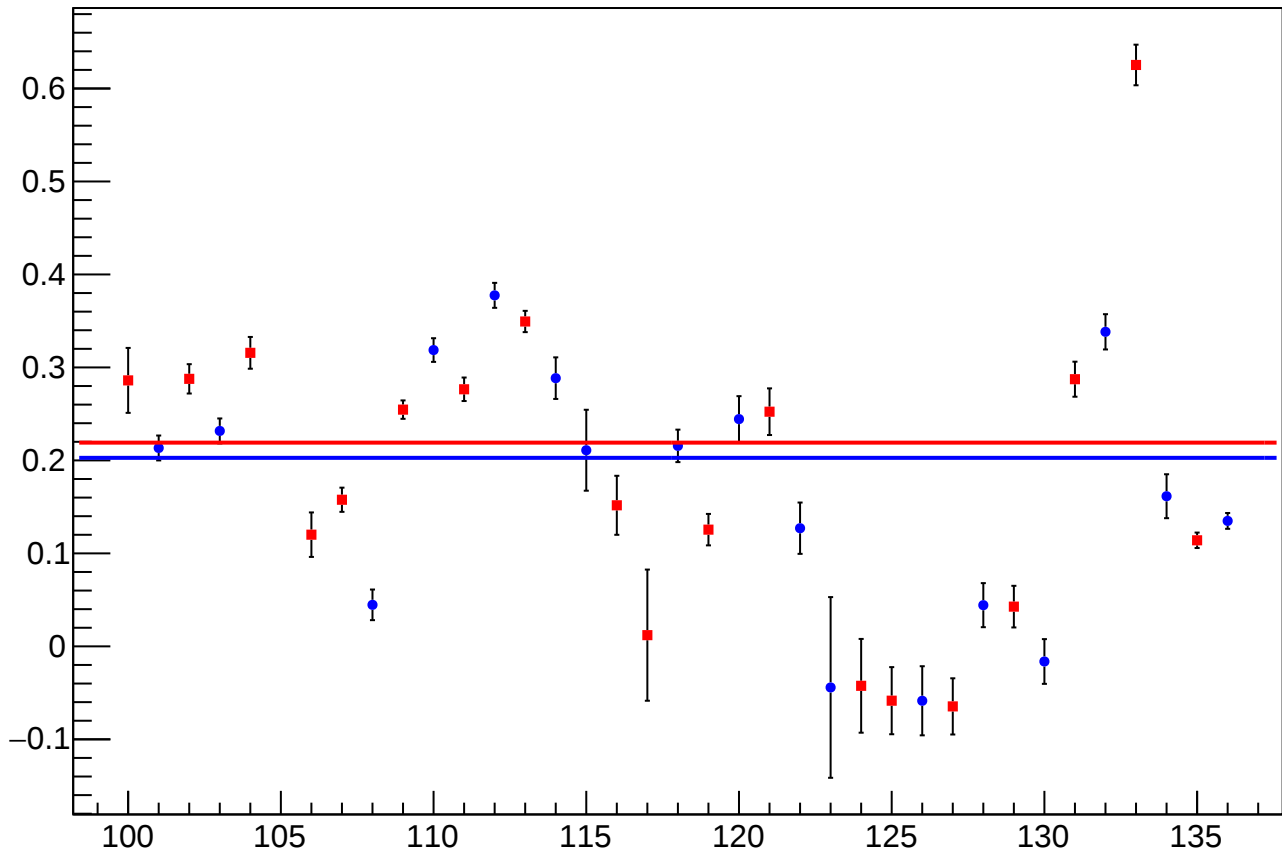
Right Out: -1.713+/-0.066  $\chi^2/\text{NDF}$ : 1417.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.697+/-0.071  $\chi^2/\text{NDF}$ : 1319.4/16

-1.713+/-0.066  $\chi^2/\text{NDF}$ : 1417.2/18

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug



Right In: 0.203 $\pm$ 0.004  $\chi^2$ /NDF: 676.5/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

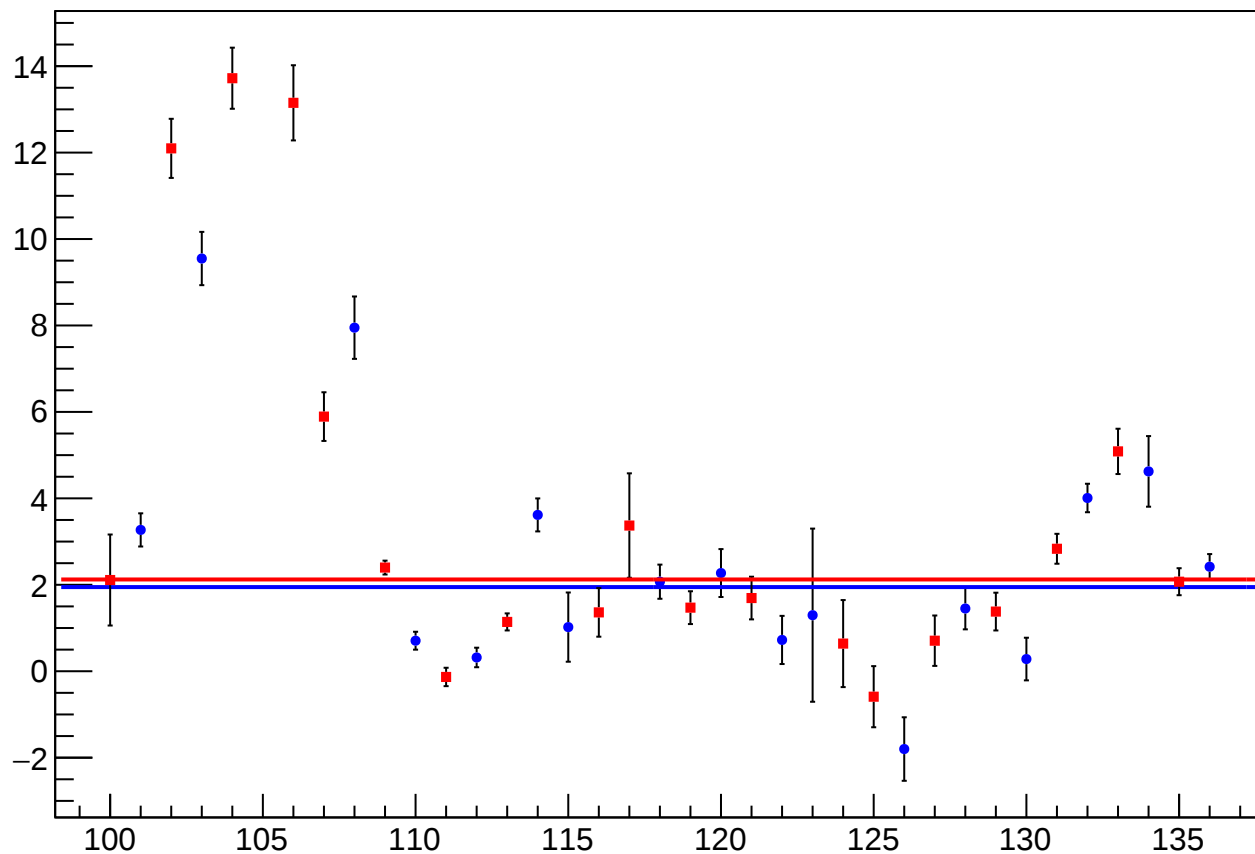
Right Out: 0.219 $\pm$ 0.004  $\chi^2$ /NDF: 1058.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.203 $\pm$ 0.004  $\chi^2$ /NDF: 676.5/16

0.219 $\pm$ 0.004  $\chi^2$ /NDF: 1058.0/18

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aX\_slope vs Slug



Right In: 1.947+/-0.096  $\chi^2/\text{NDF}$ : 437.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

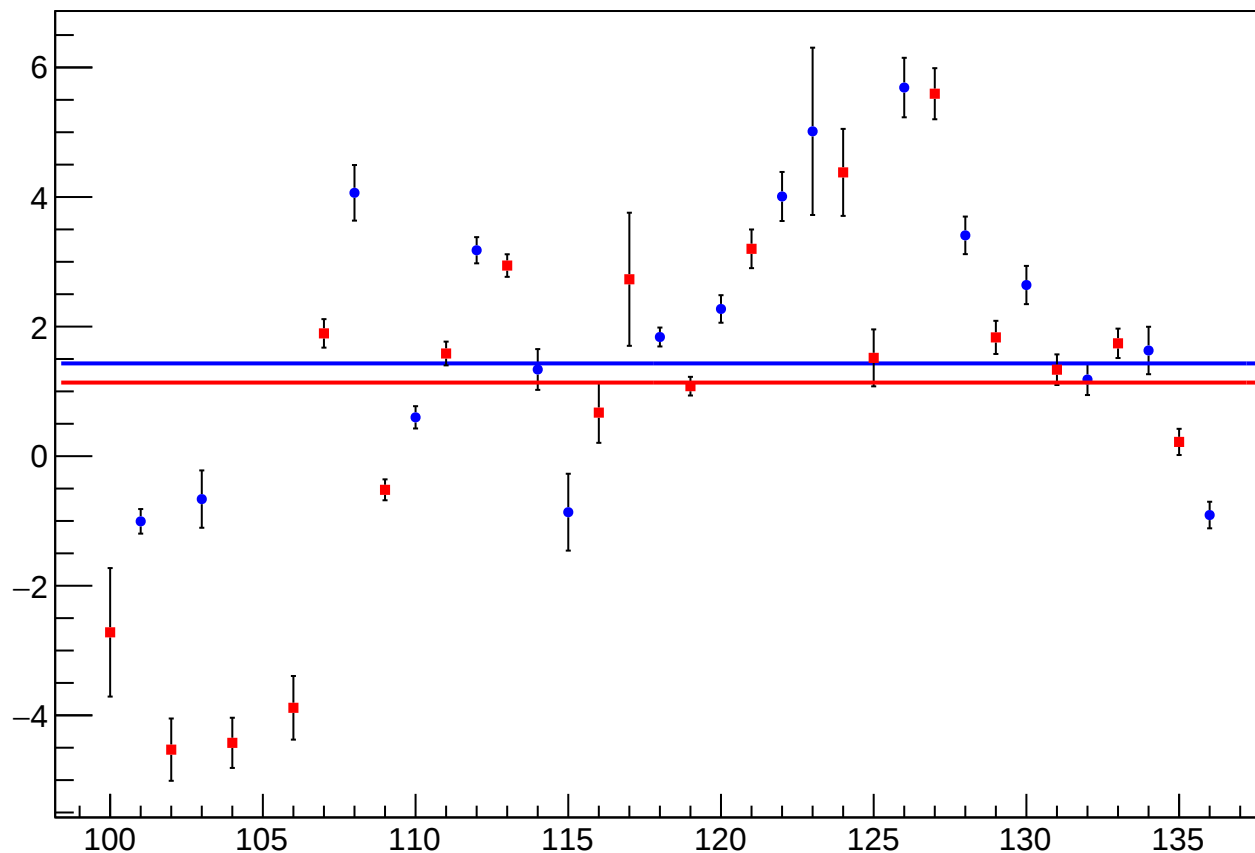
Right Out: 2.123+/-0.083  $\chi^2/\text{NDF}$ : 896.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.947+/-0.096  $\chi^2/\text{NDF}$ : 437.7/16

2.123+/-0.083  $\chi^2/\text{NDF}$ : 896.2/18

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.432+/-0.062  $\chi^2/\text{NDF}$ : 696.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

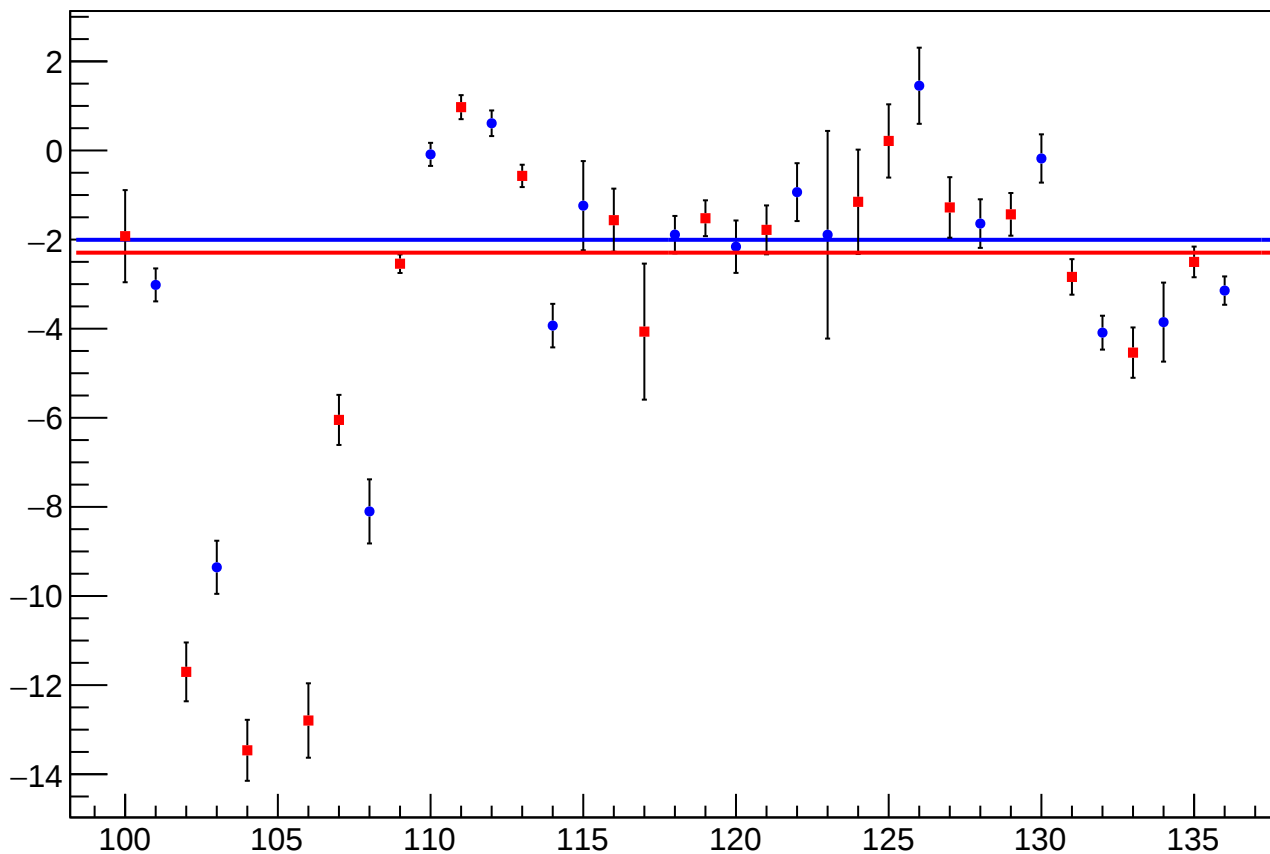
Right Out: 1.136+/-0.058  $\chi^2/\text{NDF}$ : 934.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.432+/-0.062  $\chi^2/\text{NDF}$ : 696.6/16

1.136+/-0.058  $\chi^2/\text{NDF}$ : 934.3/18

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug



Right In: -2.005+/-0.111  $\chi^2/\text{NDF}$ : 463.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

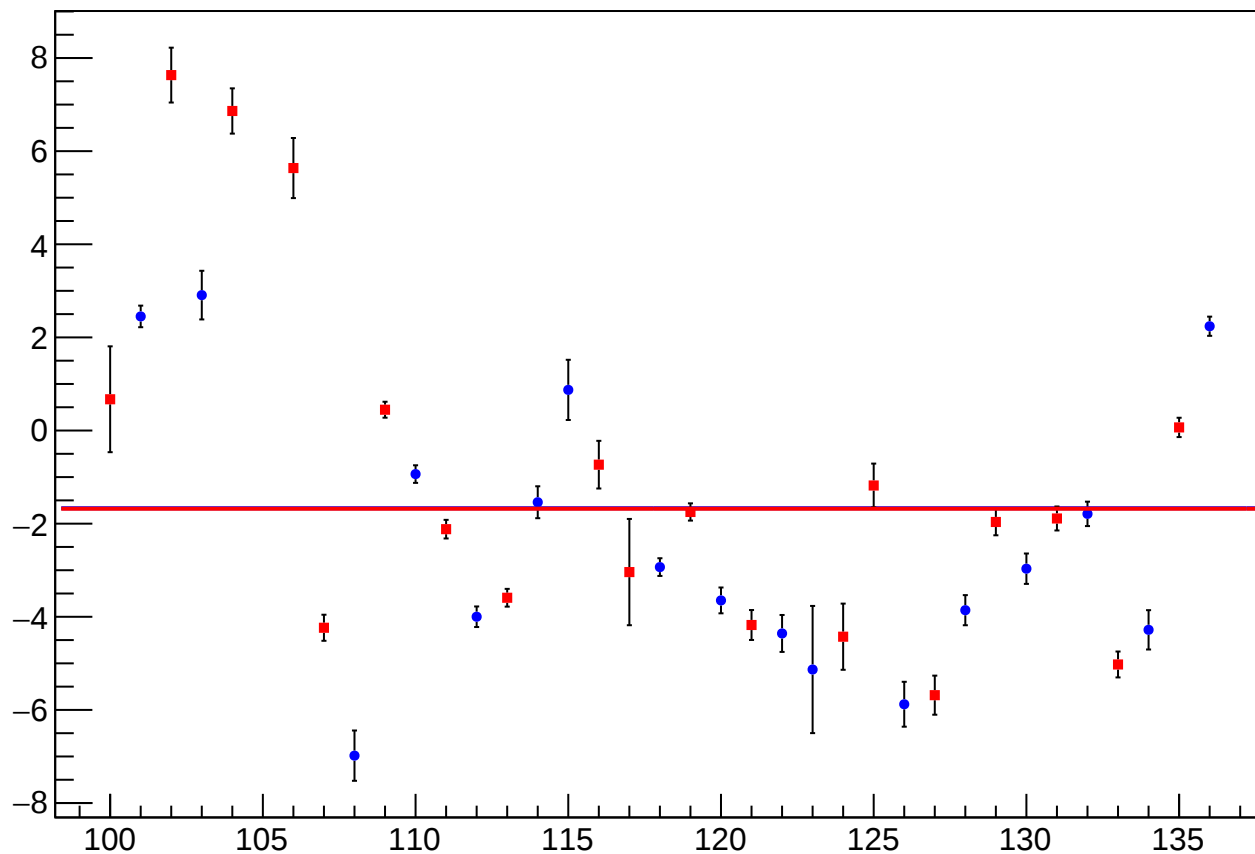
Right Out: -2.294+/-0.099  $\chi^2/\text{NDF}$ : 908.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.005+/-0.111  $\chi^2/\text{NDF}$ : 463.1/16

-2.294+/-0.099  $\chi^2/\text{NDF}$ : 908.3/18

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug



Right In: -1.669+/-0.071  $\chi^2/\text{NDF}$ : 1314.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

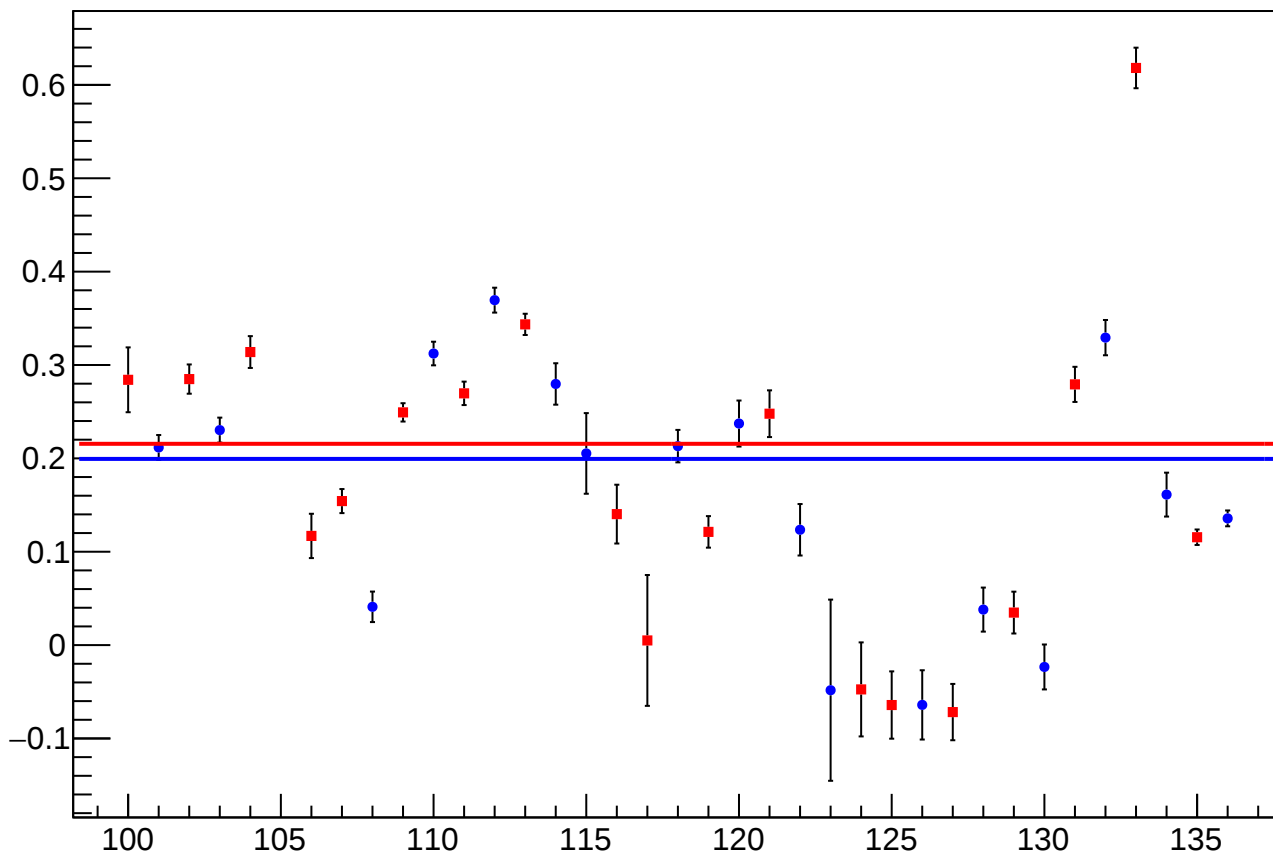
Right Out: -1.679+/-0.066  $\chi^2/\text{NDF}$ : 1424.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.669+/-0.071  $\chi^2/\text{NDF}$ : 1314.9/16

-1.679+/-0.066  $\chi^2/\text{NDF}$ : 1424.2/18

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug



Right In: 0.199 $\pm$ 0.004  $\chi^2$ /NDF: 662.1/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

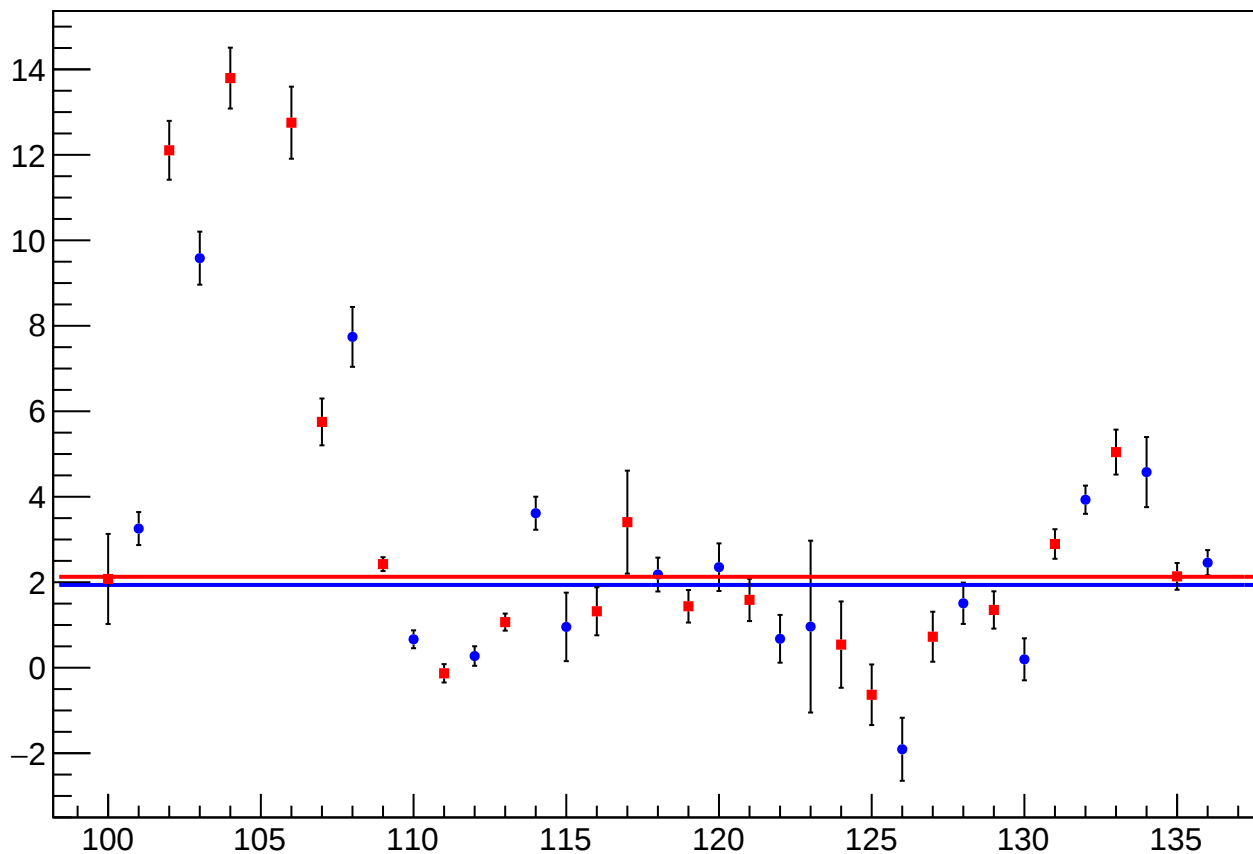
Right Out: 0.216 $\pm$ 0.004  $\chi^2$ /NDF: 1045.3/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.199 $\pm$ 0.004  $\chi^2$ /NDF: 662.1/16

0.216 $\pm$ 0.004  $\chi^2$ /NDF: 1045.3/18

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aX\_slope vs Slug



Right In: 1.937+/-0.097  $\chi^2/\text{NDF}$ : 439.1/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

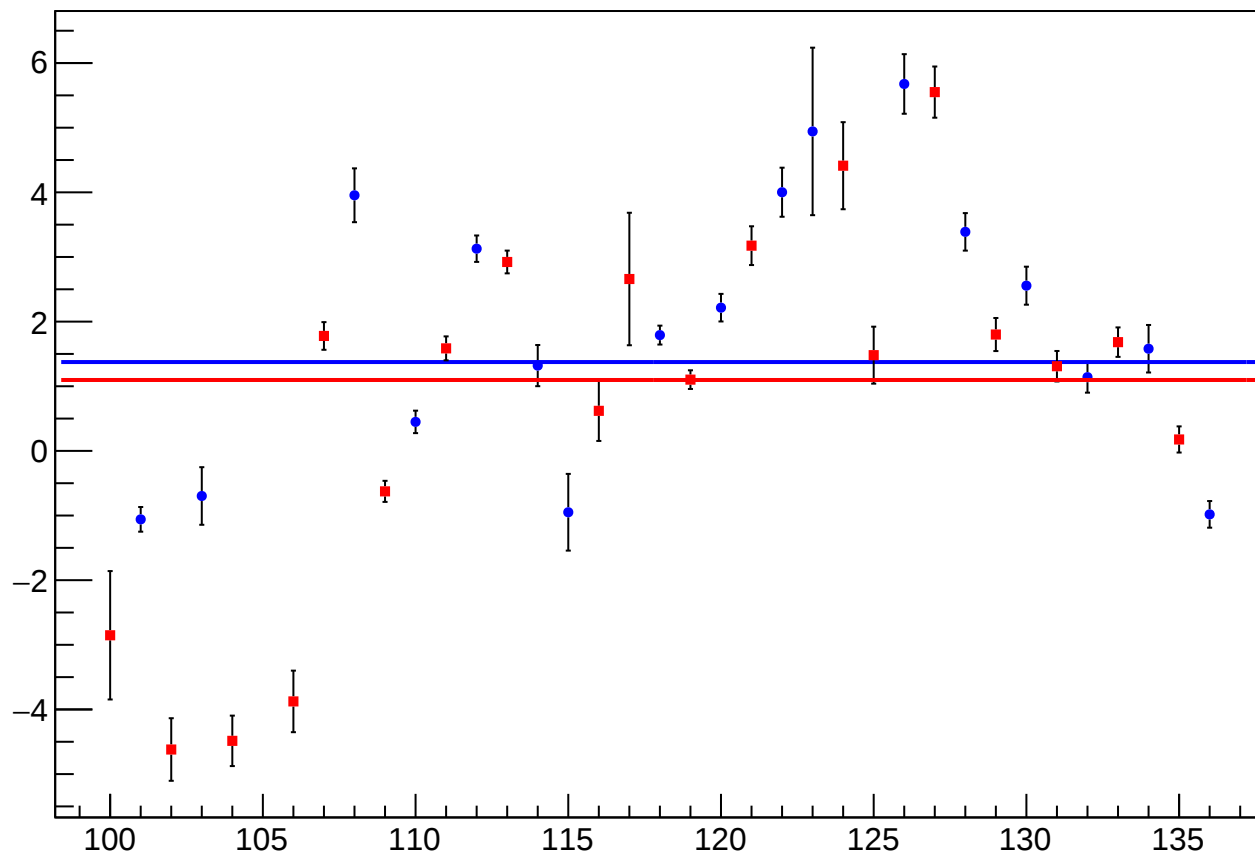
Right Out: 2.127+/-0.084  $\chi^2/\text{NDF}$ : 893.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.937+/-0.097  $\chi^2/\text{NDF}$ : 439.1/16

2.127+/-0.084  $\chi^2/\text{NDF}$ : 893.0/18

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug



Right In: 1.375+/-0.062  $\chi^2/\text{NDF}$ : 702.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

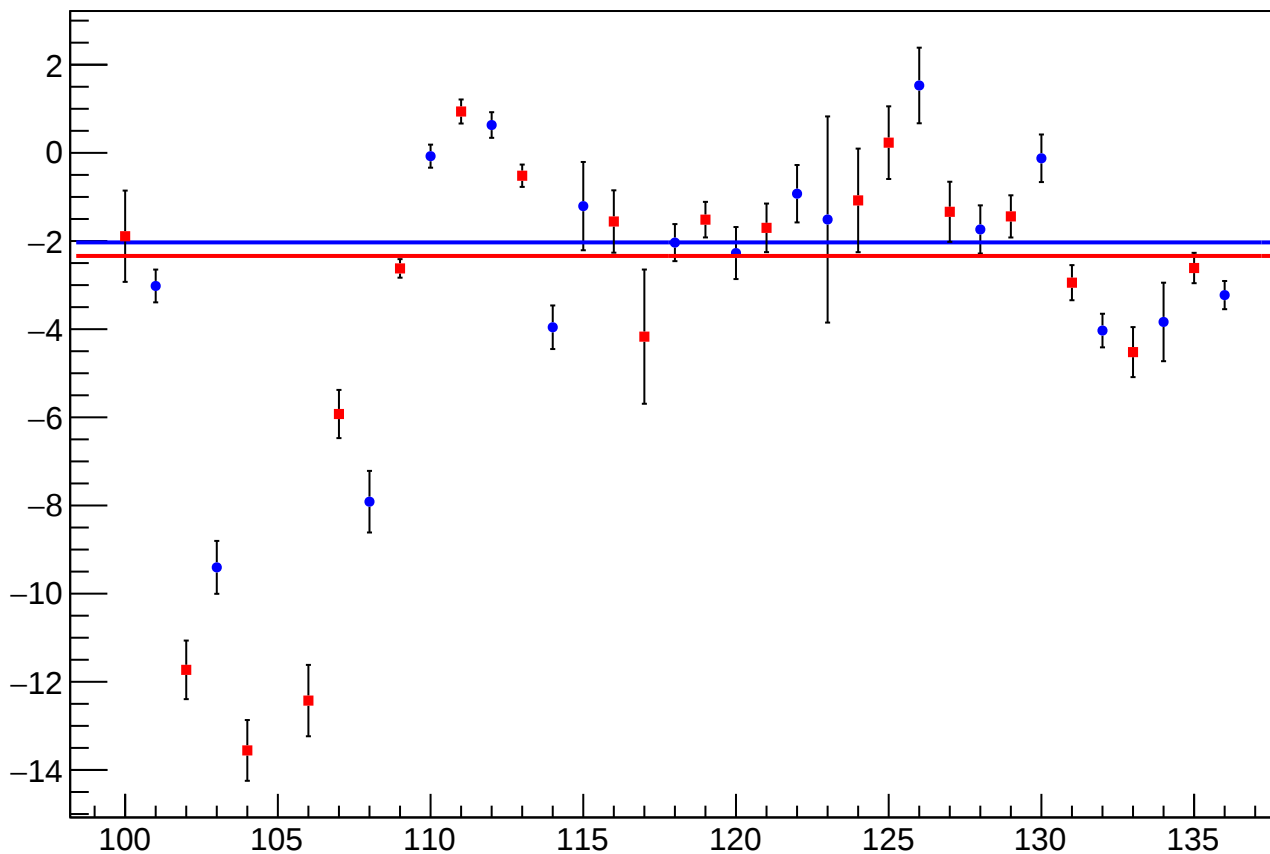
Right Out: 1.097+/-0.058  $\chi^2/\text{NDF}$ : 943.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.375+/-0.062  $\chi^2/\text{NDF}$ : 702.4/16

1.097+/-0.058  $\chi^2/\text{NDF}$ : 943.9/18

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug



Right In: -2.031+/-0.111  $\chi^2/\text{NDF}$ : 463.2/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

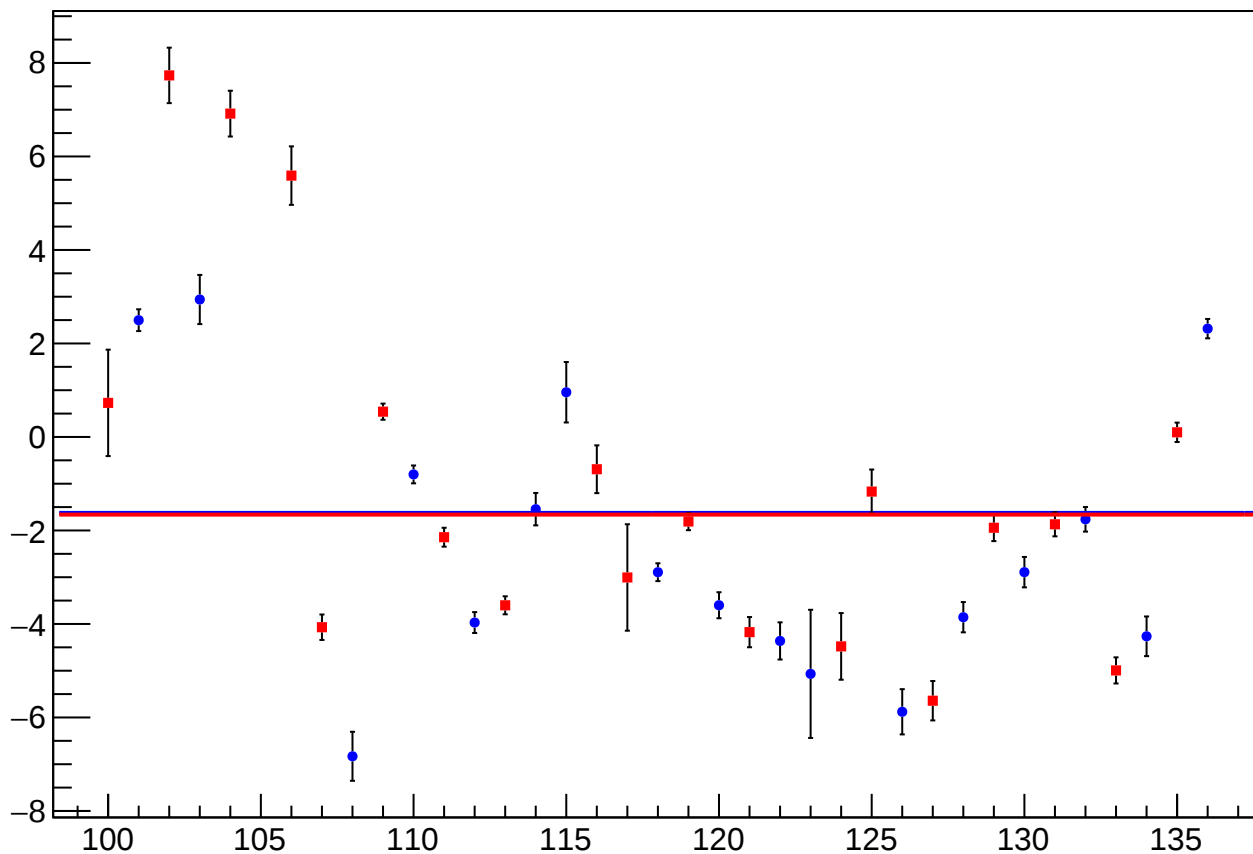
Right Out: -2.339+/-0.100  $\chi^2/\text{NDF}$ : 903.3/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.031+/-0.111  $\chi^2/\text{NDF}$ : 463.2/16

-2.339+/-0.100  $\chi^2/\text{NDF}$ : 903.3/18

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In: -1.625+/-0.071  $\chi^2/\text{NDF}$ : 1320.8/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

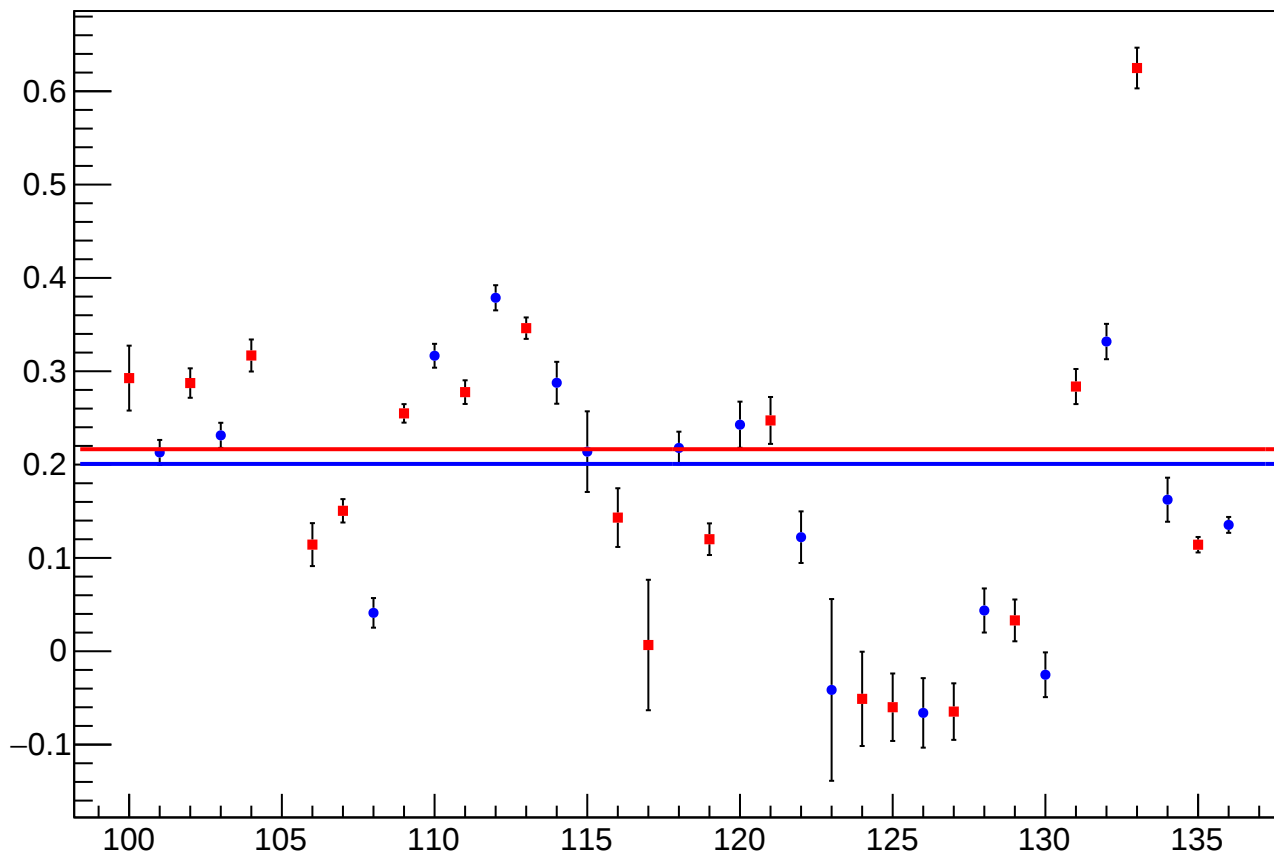
Right Out: -1.661+/-0.066  $\chi^2/\text{NDF}$ : 1432.2/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.625+/-0.071  $\chi^2/\text{NDF}$ : 1320.8/16

-1.661+/-0.066  $\chi^2/\text{NDF}$ : 1432.2/18

# reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug



Right In: 0.201 $\pm$ 0.004  $\chi^2$ /NDF: 690.6/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

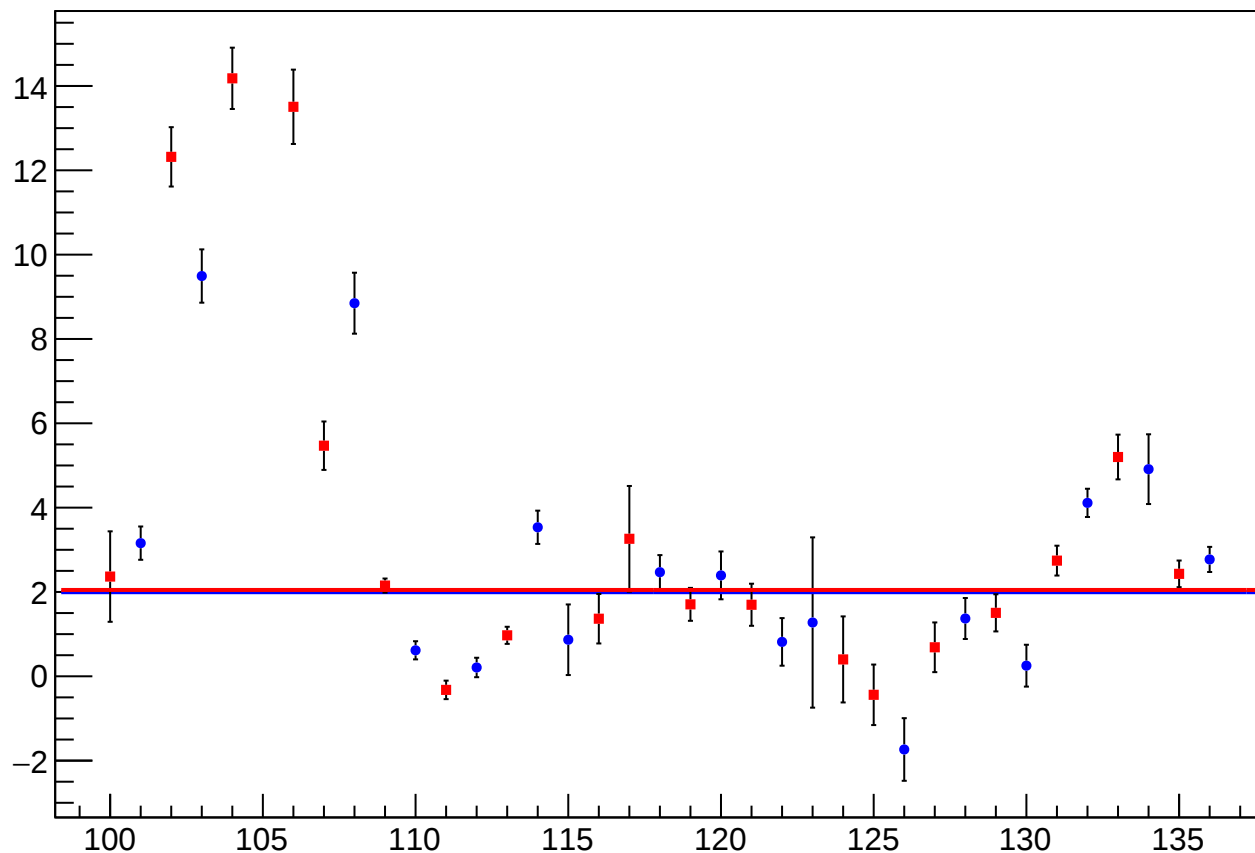
Right Out: 0.216 $\pm$ 0.004  $\chi^2$ /NDF: 1076.2/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.201 $\pm$ 0.004  $\chi^2$ /NDF: 690.6/16

0.216 $\pm$ 0.004  $\chi^2$ /NDF: 1076.2/18

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aX\_slope vs Slug



Right In: 1.994+/-0.098  $\chi^2/\text{NDF}$ : 461.9/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

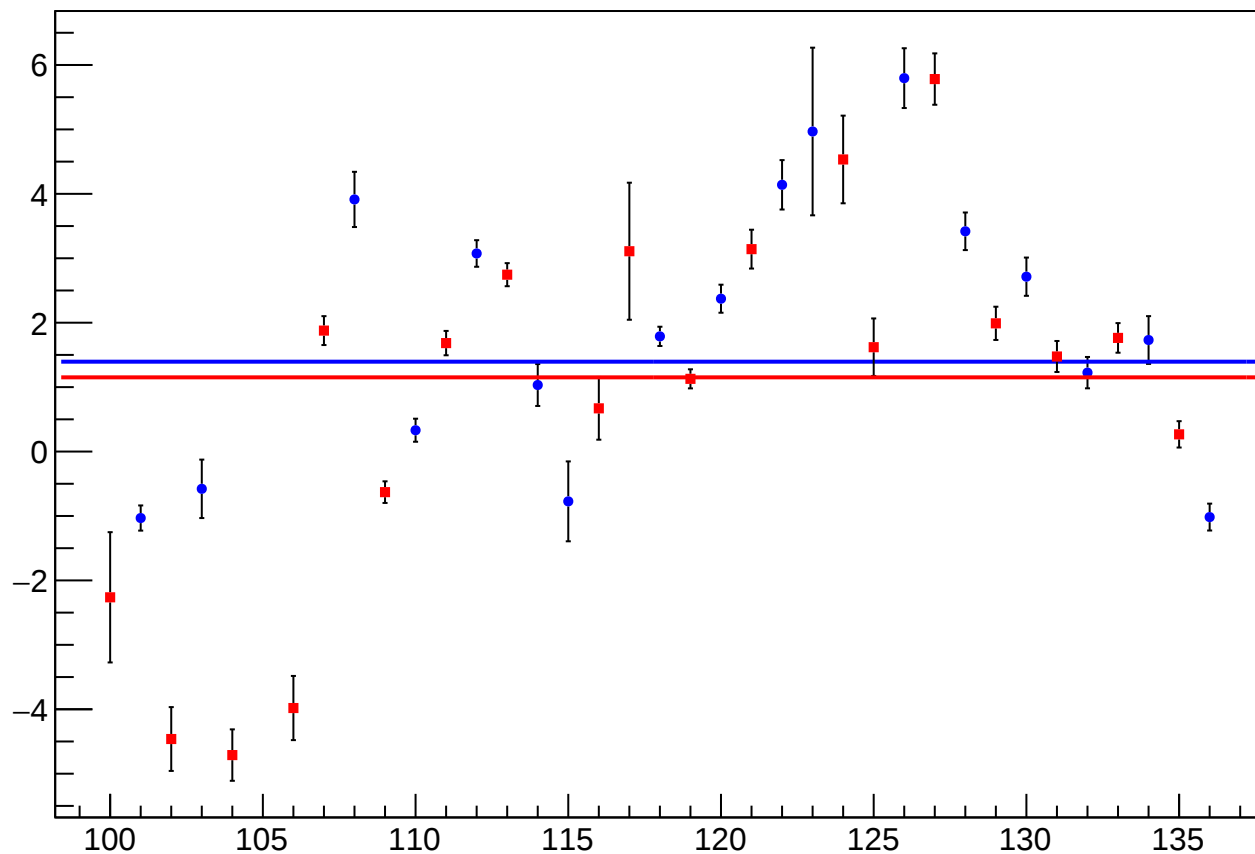
Right Out: 2.048+/-0.086  $\chi^2/\text{NDF}$ : 906.8/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.994+/-0.098  $\chi^2/\text{NDF}$ : 461.9/16

2.048+/-0.086  $\chi^2/\text{NDF}$ : 906.8/18

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.395+/-0.063  $\chi^2/\text{NDF}$ : 701.4/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

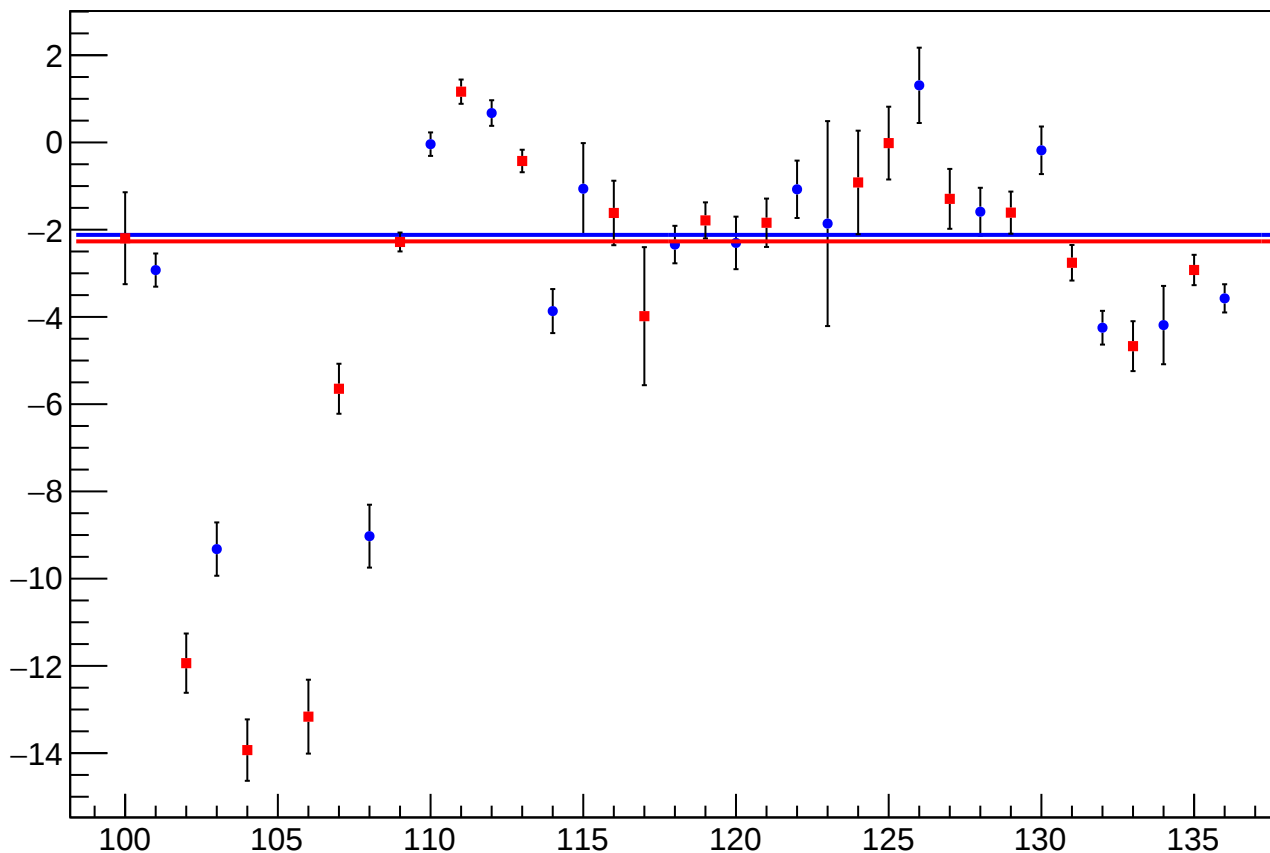
Right Out: 1.152+/-0.060  $\chi^2/\text{NDF}$ : 918.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.395+/-0.063  $\chi^2/\text{NDF}$ : 701.4/16

1.152+/-0.060  $\chi^2/\text{NDF}$ : 918.9/18

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



Right In: -2.119+/-0.113  $\chi^2$ /NDF: 486.3/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

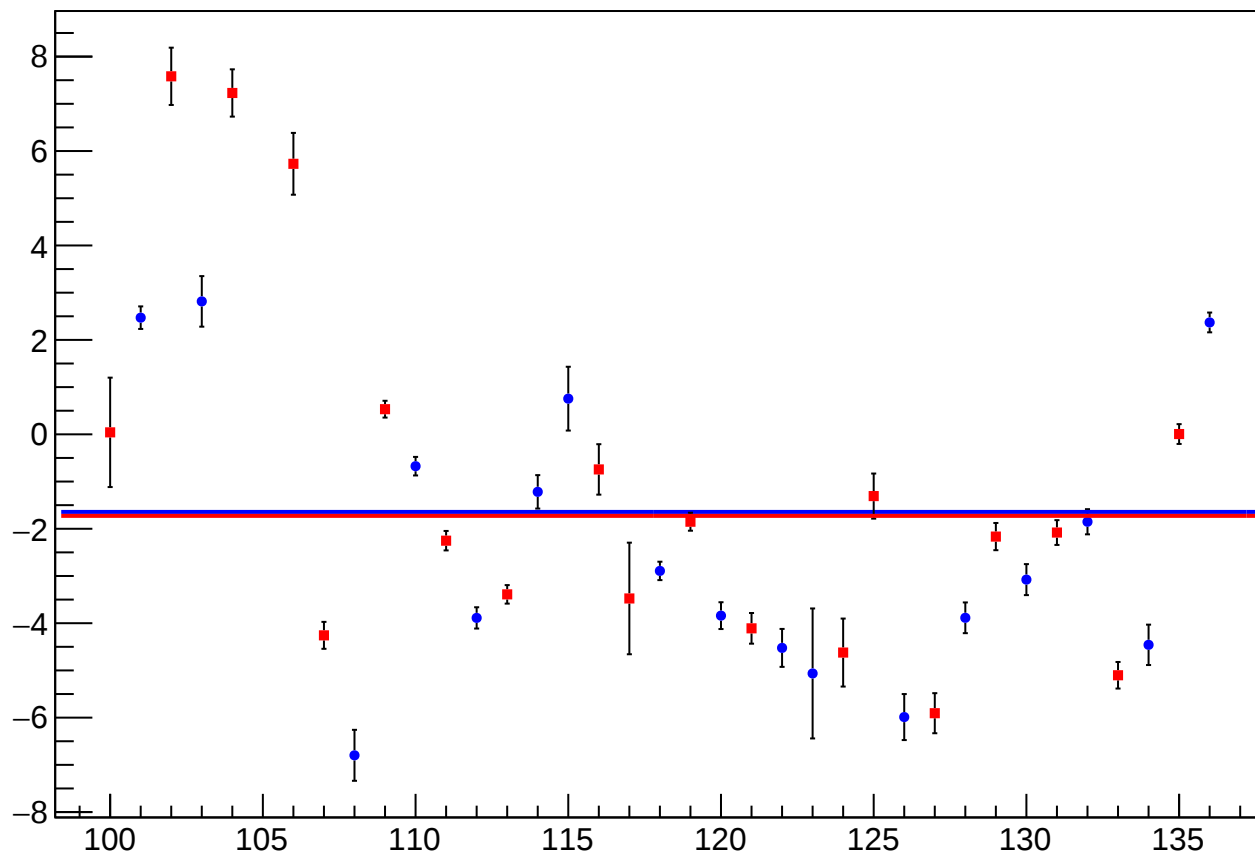
Right Out: -2.268+/-0.102  $\chi^2$ /NDF: 919.5/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-2.119+/-0.113  $\chi^2$ /NDF: 486.3/16

-2.268+/-0.102  $\chi^2$ /NDF: 919.5/18

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.643 \pm 0.072$   $\chi^2/\text{NDF}$ : 1310.1/16

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

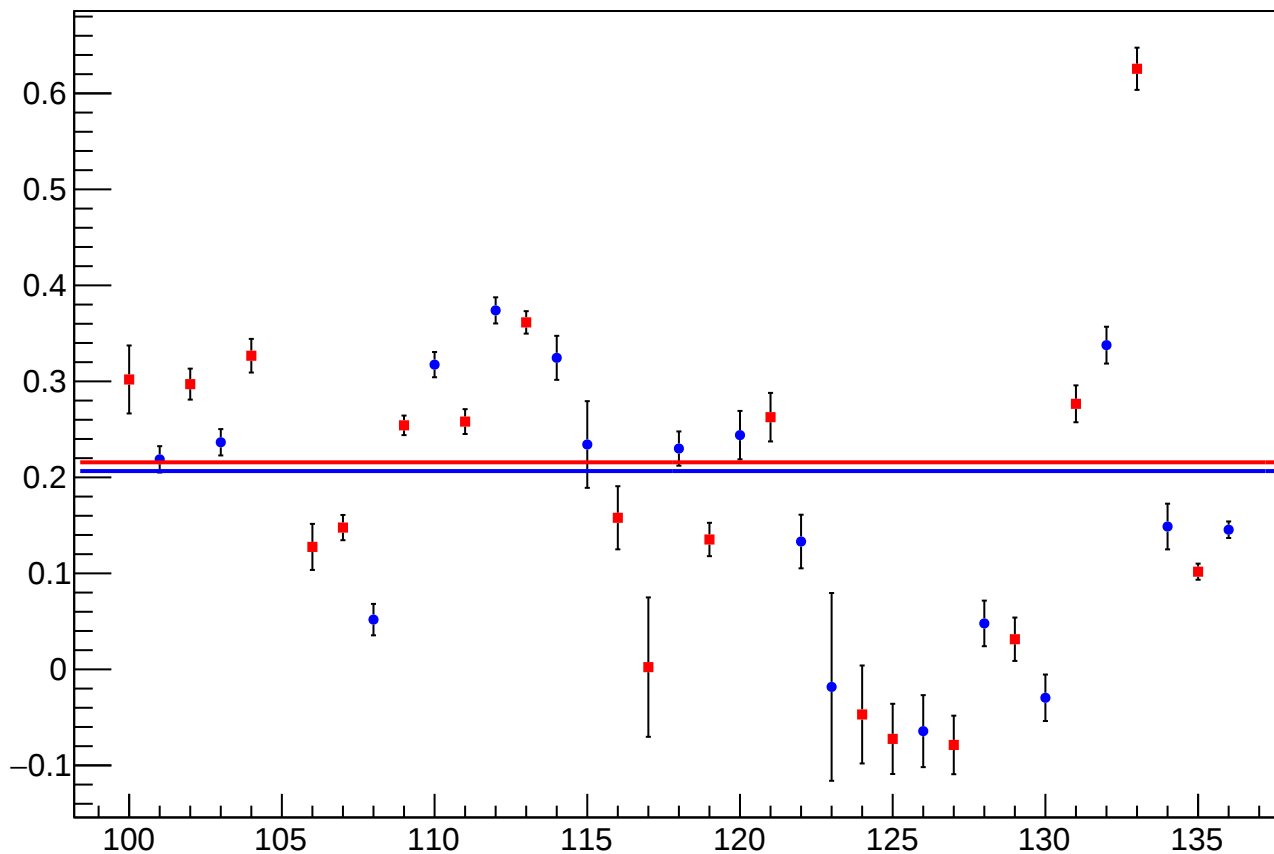
Right Out:  $-1.727 \pm 0.068$   $\chi^2/\text{NDF}$ : 1395.6/18

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-1.643 \pm 0.072$   $\chi^2/\text{NDF}$ : 1310.1/16

$-1.727 \pm 0.068$   $\chi^2/\text{NDF}$ : 1395.6/18

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



Right In: 0.207 $\pm$ 0.004  $\chi^2$ /NDF: 655.0/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

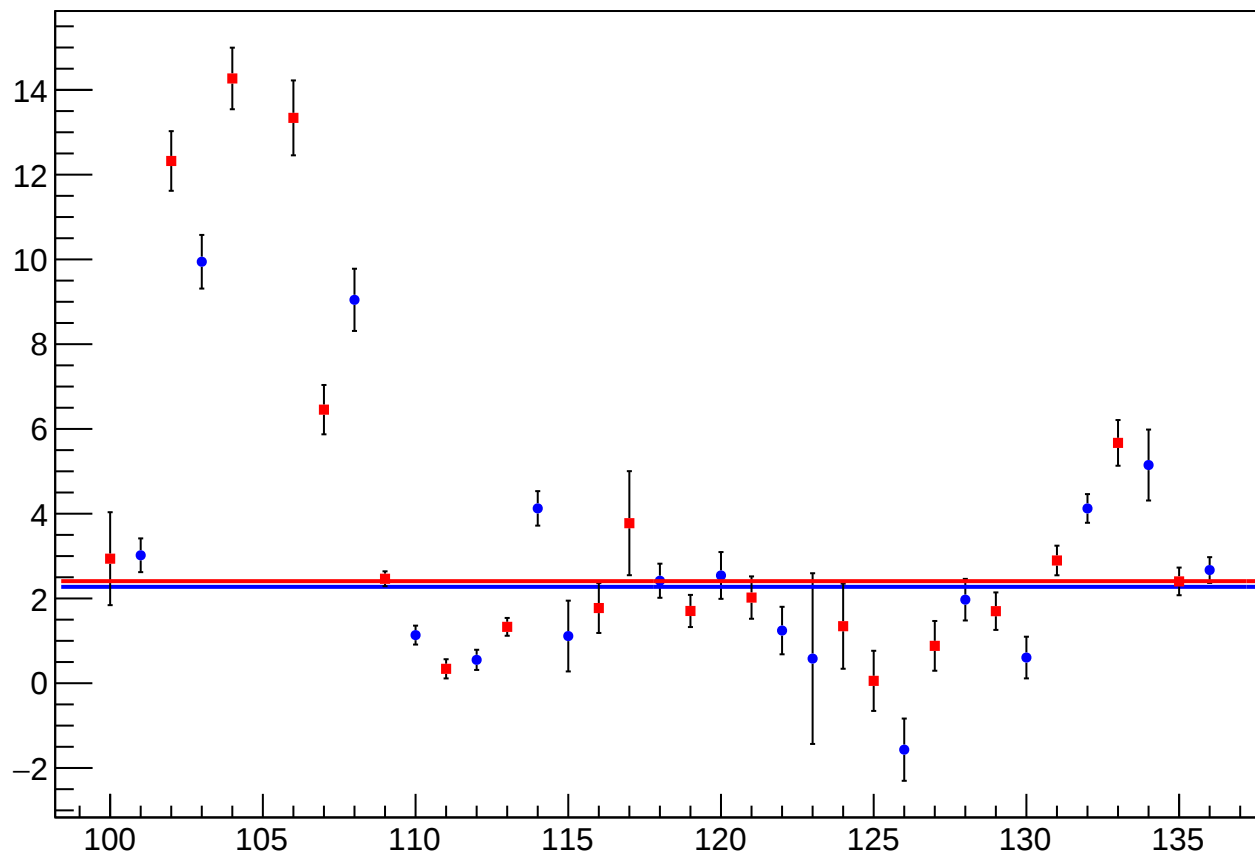
Right Out: 0.216 $\pm$ 0.004  $\chi^2$ /NDF: 1120.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.207 $\pm$ 0.004  $\chi^2$ /NDF: 655.0/16

0.216 $\pm$ 0.004  $\chi^2$ /NDF: 1120.0/18

reg\_asym\_bcm\_dg\_us\_diff\_bpm4aX\_slope vs Slug



Right In: 2.274+/-0.100  $\chi^2/\text{NDF}$ : 423.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

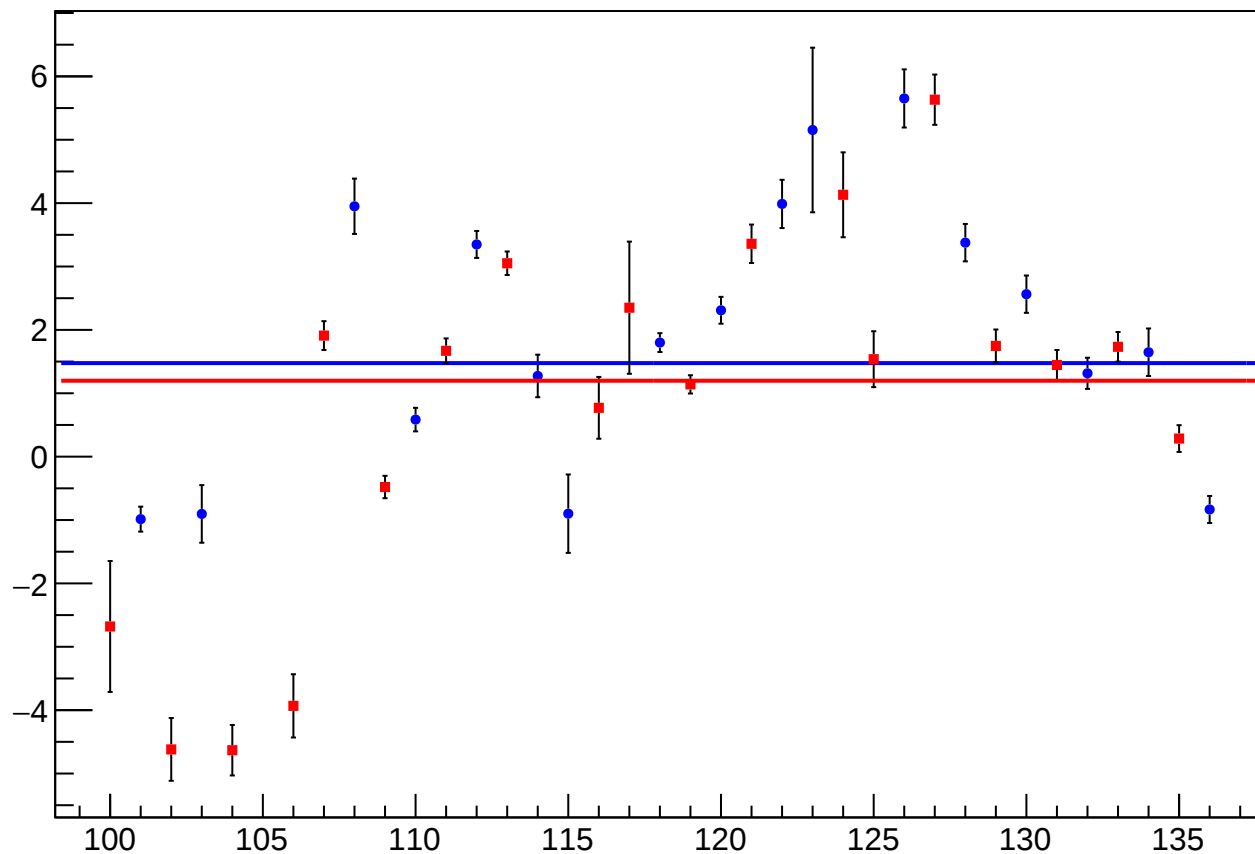
Right Out: 2.408+/-0.088  $\chi^2/\text{NDF}$ : 842.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.274+/-0.100  $\chi^2/\text{NDF}$ : 423.7/16

2.408+/-0.088  $\chi^2/\text{NDF}$ : 842.9/18

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug



Right In: 1.476+/-0.064  $\chi^2/\text{NDF}$ : 659.7/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

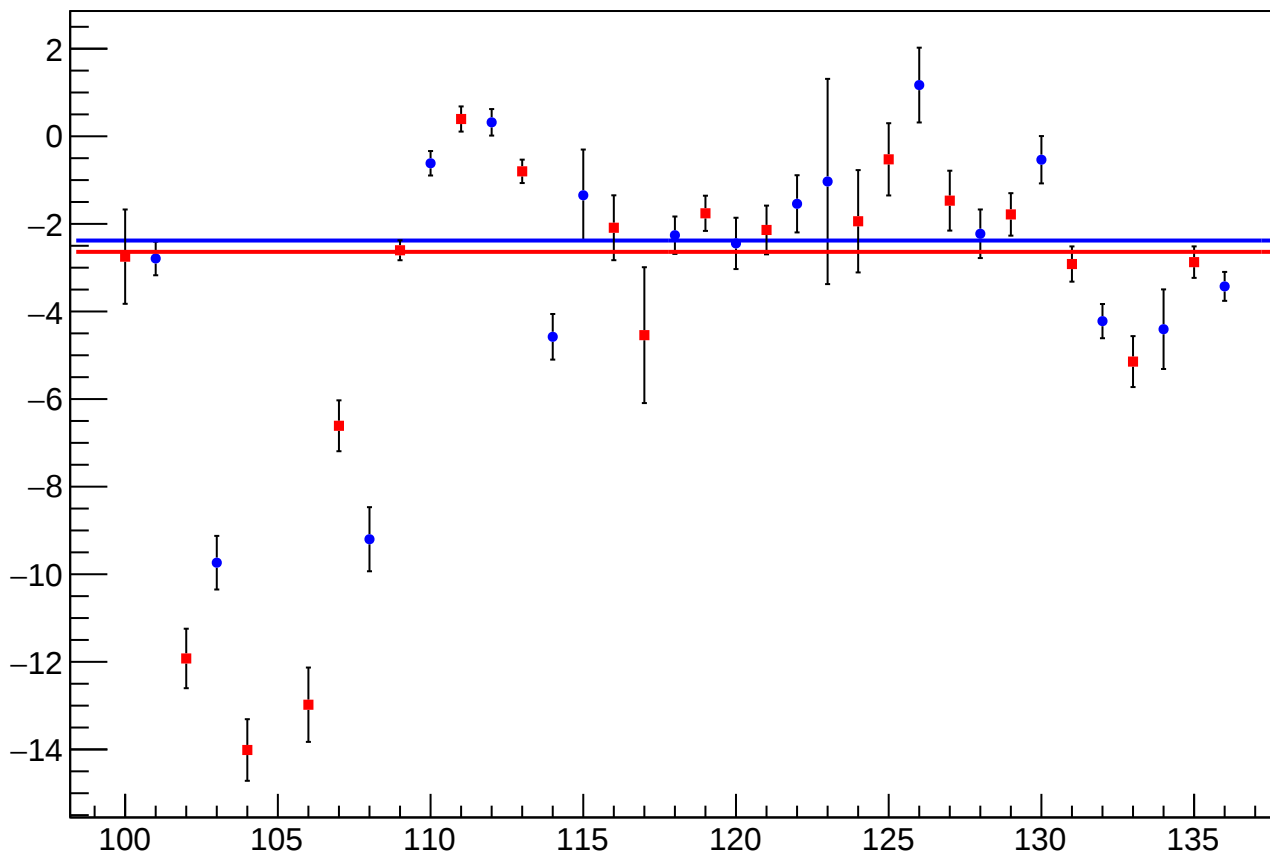
Right Out: 1.198+/-0.060  $\chi^2/\text{NDF}$ : 904.7/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.476+/-0.064  $\chi^2/\text{NDF}$ : 659.7/16

1.198+/-0.060  $\chi^2/\text{NDF}$ : 904.7/18

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug



Right In: -2.380+/-0.115  $\chi^2$ /NDF: 438.8/16

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

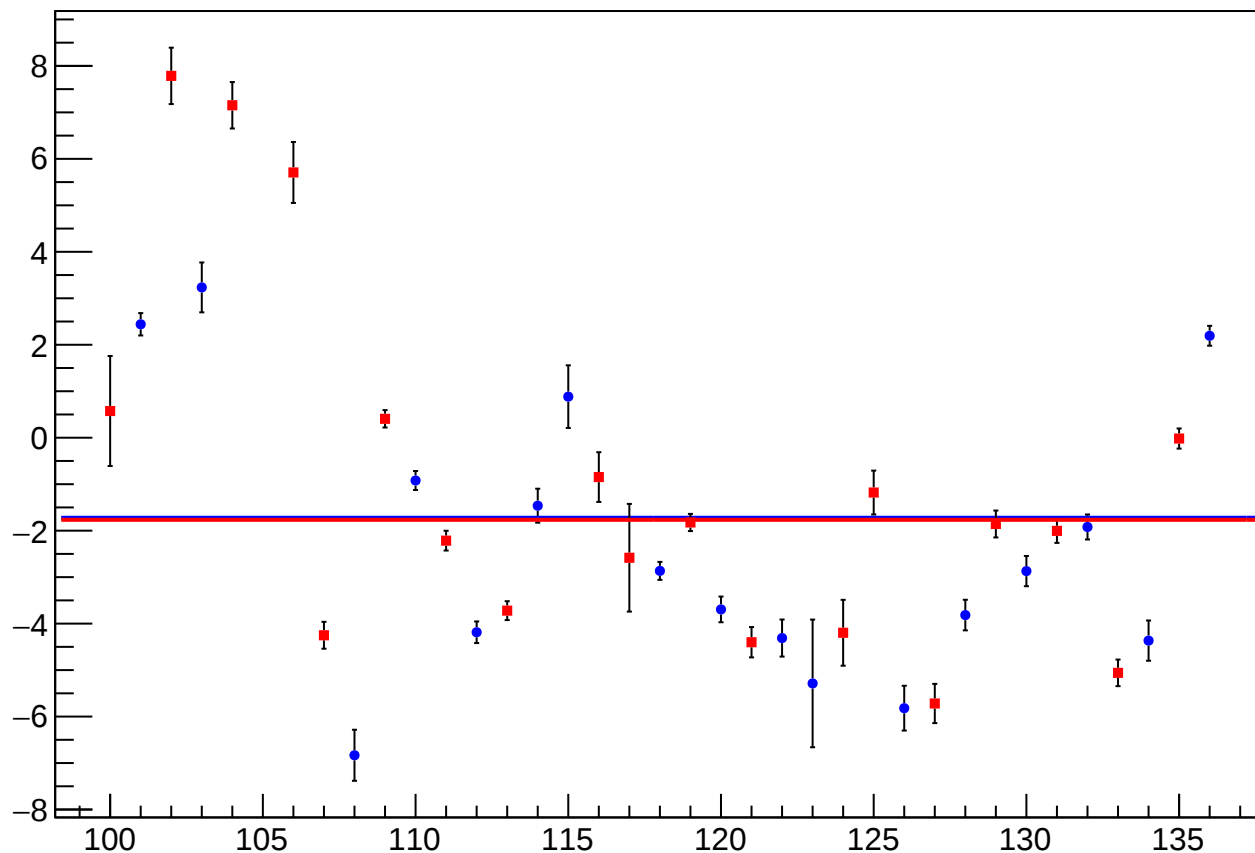
Right Out: -2.639+/-0.104  $\chi^2$ /NDF: 842.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2.380+/-0.115  $\chi^2$ /NDF: 438.8/16

-2.639+/-0.104  $\chi^2$ /NDF: 842.6/18

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In: -1.722+/-0.073  $\chi^2/\text{NDF}$ : 1247.6/16

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

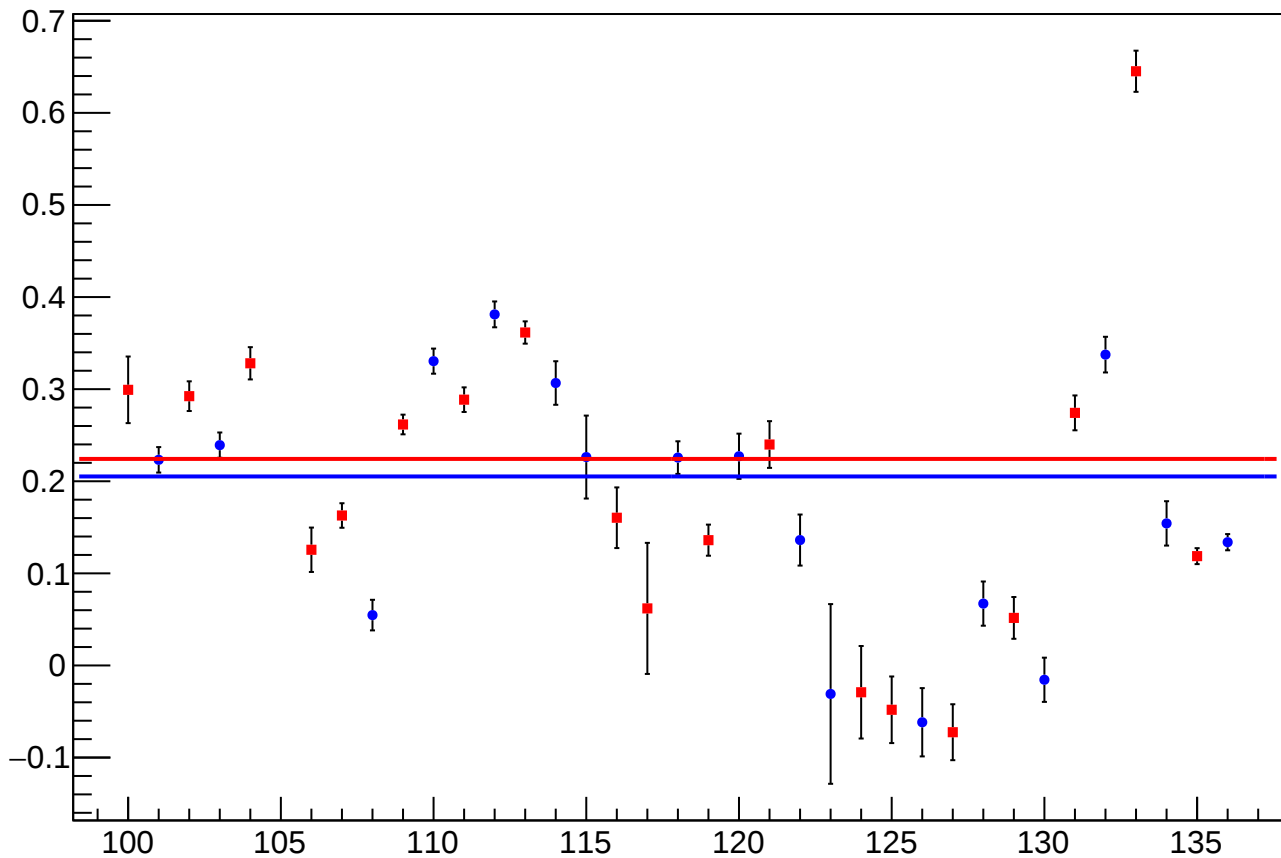
Right Out: -1.766+/-0.069  $\chi^2/\text{NDF}$ : 1373.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.722+/-0.073  $\chi^2/\text{NDF}$ : 1247.6/16

-1.766+/-0.069  $\chi^2/\text{NDF}$ : 1373.9/18

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug



Right In: 0.205 $\pm$ 0.004  $\chi^2$ /NDF: 650.7/16

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.224 $\pm$ 0.004  $\chi^2$ /NDF: 1042.0/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.205 $\pm$ 0.004  $\chi^2$ /NDF: 650.7/16

0.224 $\pm$ 0.004  $\chi^2$ /NDF: 1042.0/18