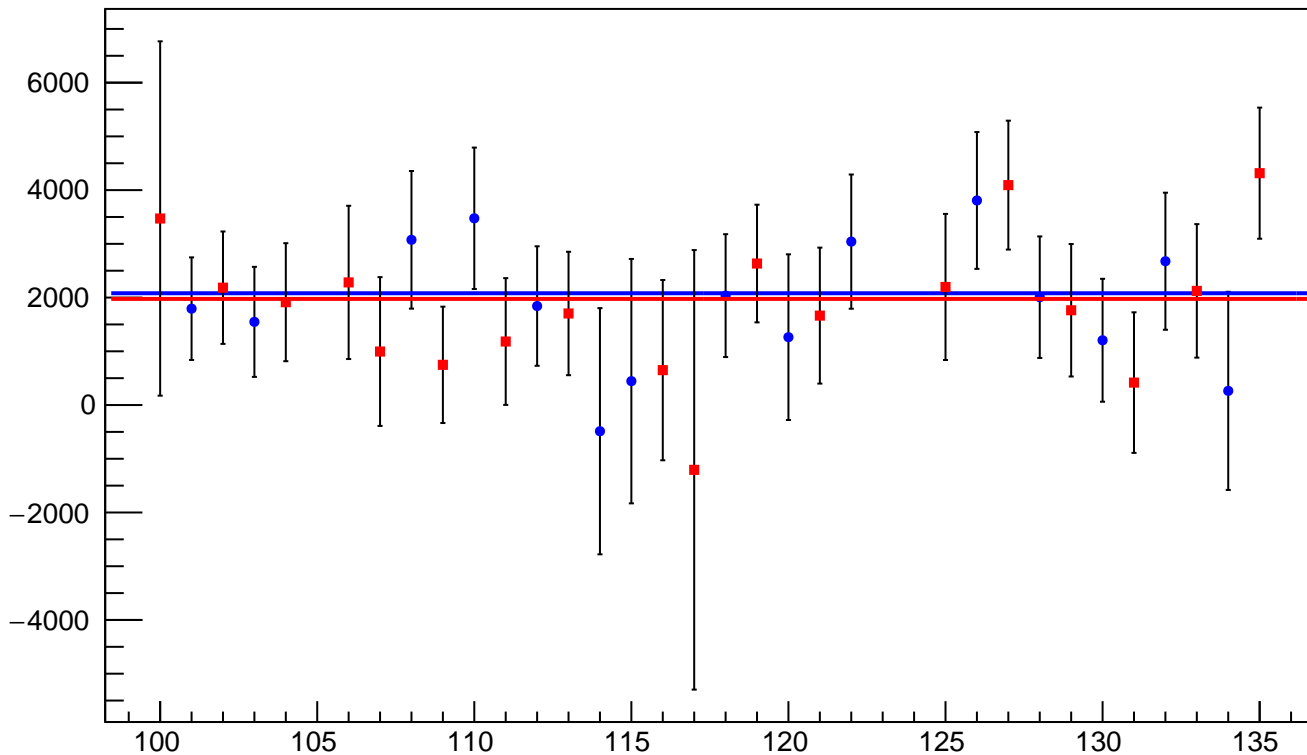


# reg\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2080.597+/-327.408  $\chi^2$ /NDF: 8.4/14

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

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

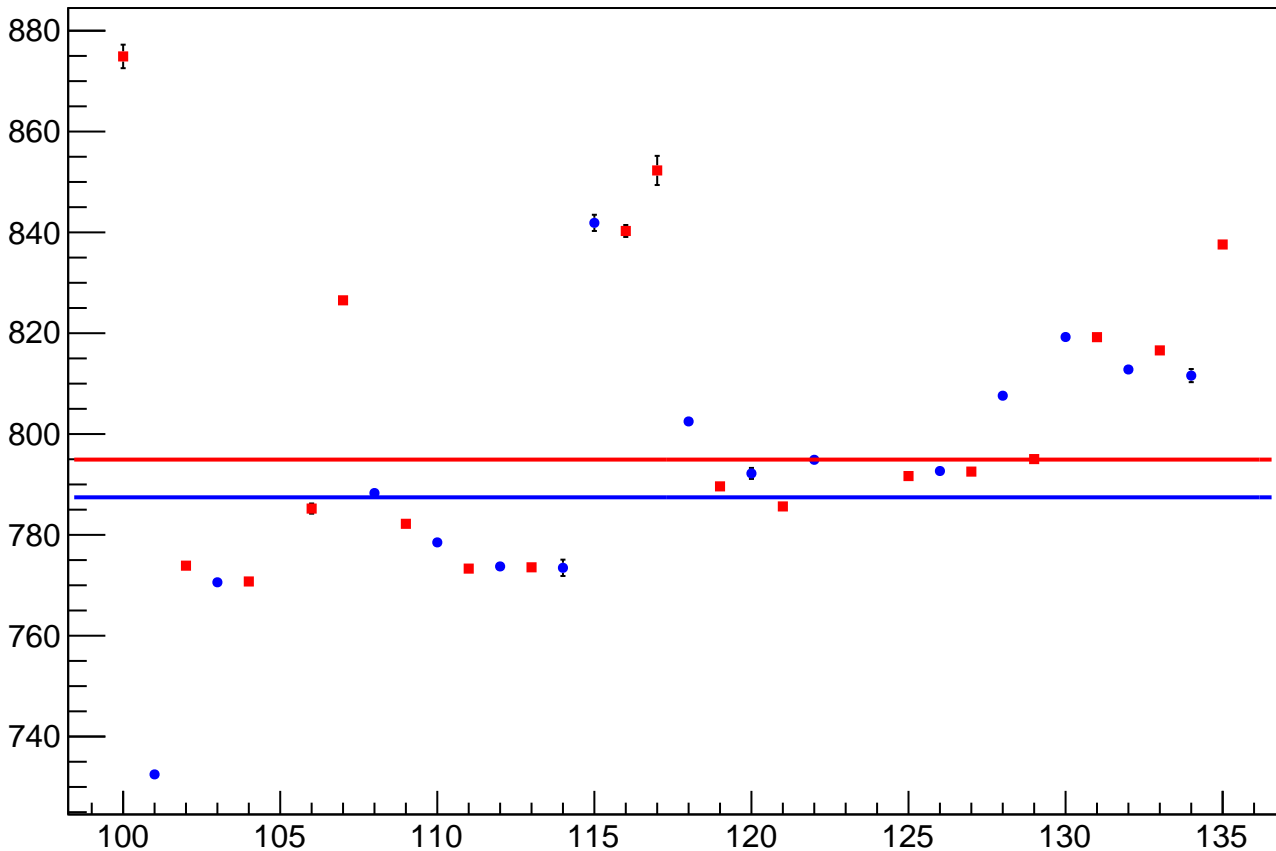
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2080.597+/-327.408  $\chi^2$ /NDF: 8.4/14

2023.968+/-222.620  $\chi^2$ /NDF: 21.0/32

1975.275+/-303.602  $\chi^2$ /NDF: 12.5/17

# reg\_asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 787.449+/-0.232  $\chi^2$ /NDF: 12572.8/14

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

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

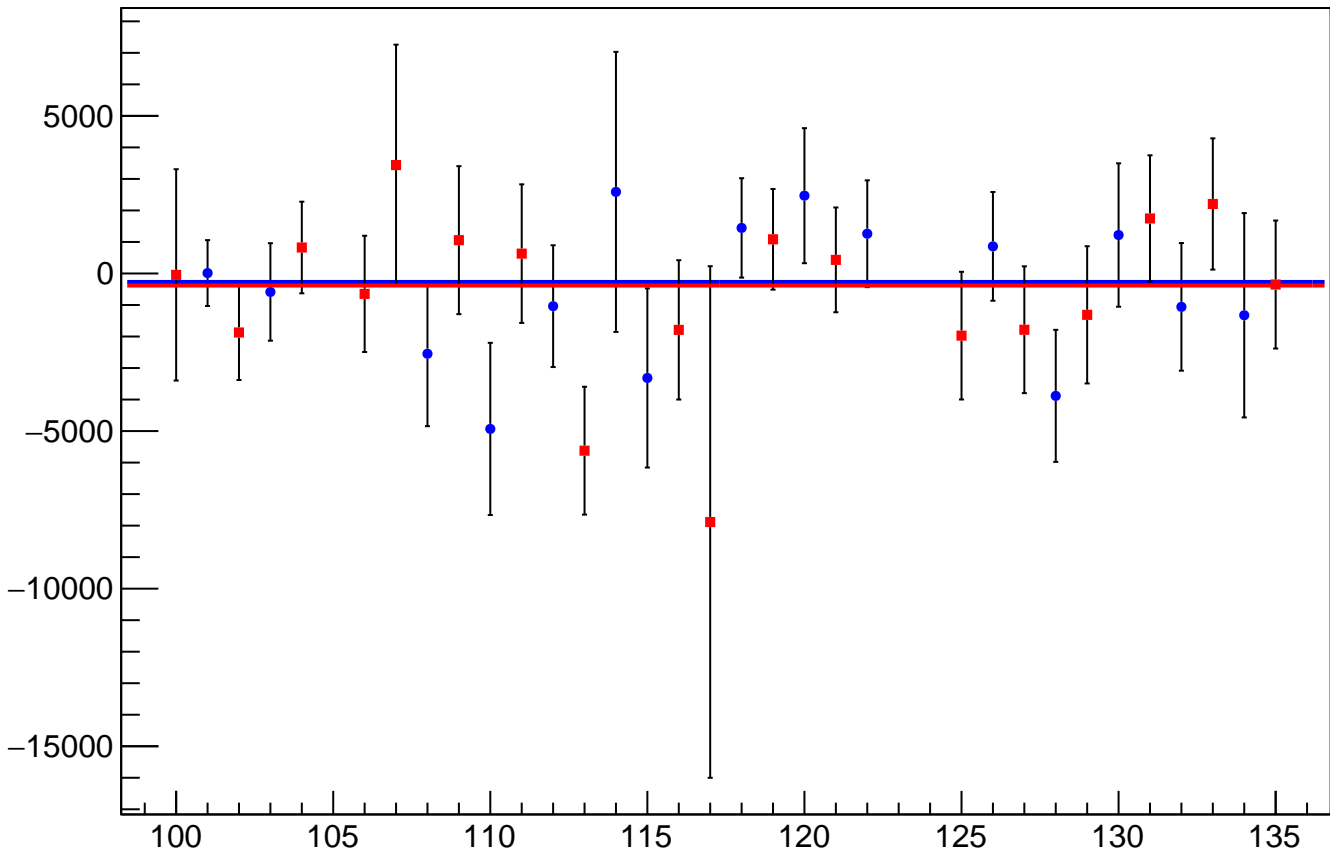
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

787.449+/-0.232  $\chi^2$ /NDF: 12572.8/14

791.473+/-0.157  $\chi^2$ /NDF: 24634.8/32

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

# asym\_us\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -268.724+/-490.089  $\chi^2$ /NDF: 13.5/14

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

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

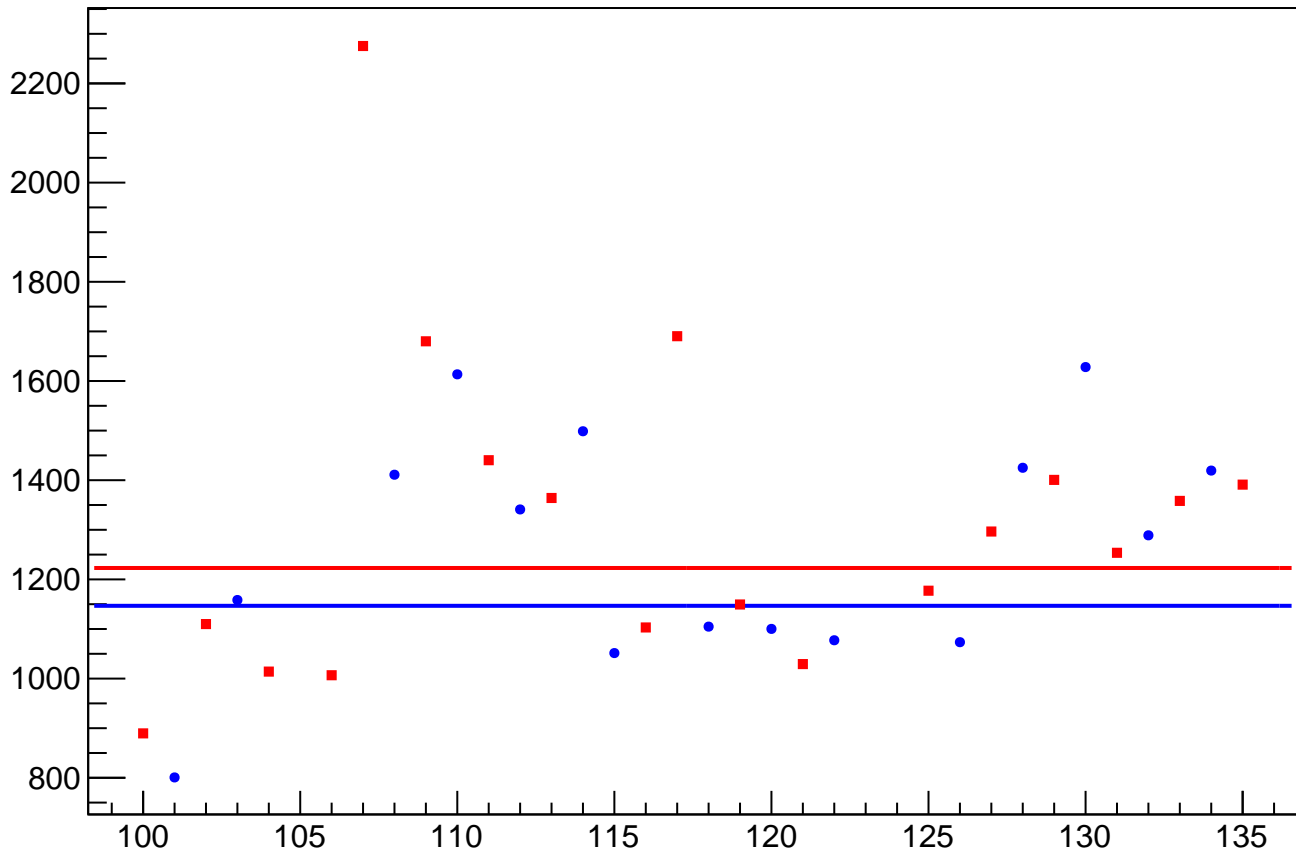
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-268.724+/-490.089  $\chi^2$ /NDF: 13.5/14

-327.194+/-341.825  $\chi^2$ /NDF: 29.7/32

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

# asym\_us\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1146.750+/-0.347  $\chi^2$ /NDF: 497352.1/14

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

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

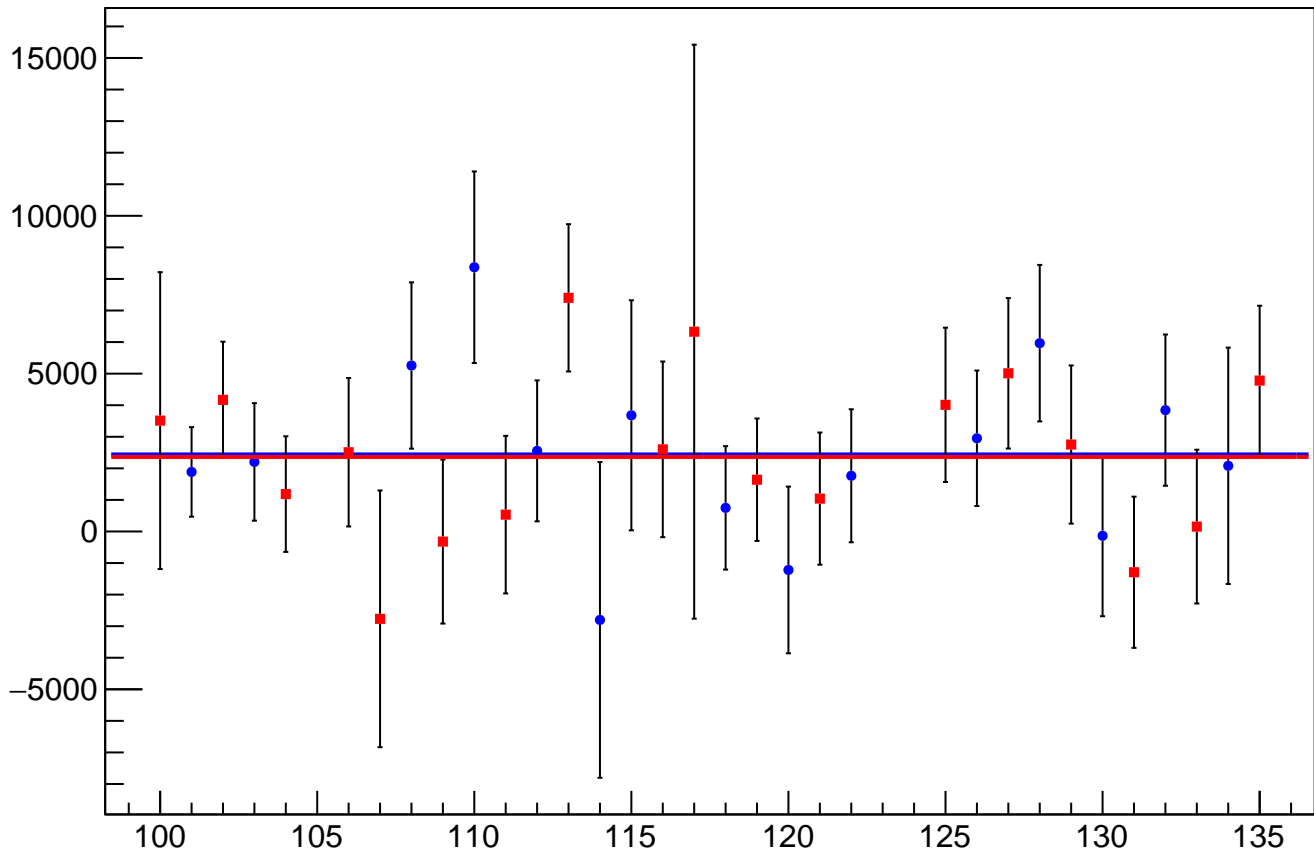
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1146.750+/-0.347  $\chi^2$ /NDF: 497352.1/14

1185.914+/-0.242  $\chi^2$ /NDF: 962473.9/32

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

# asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2440.303+/-601.528  $\chi^2/\text{NDF}$ : 12.6/14

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

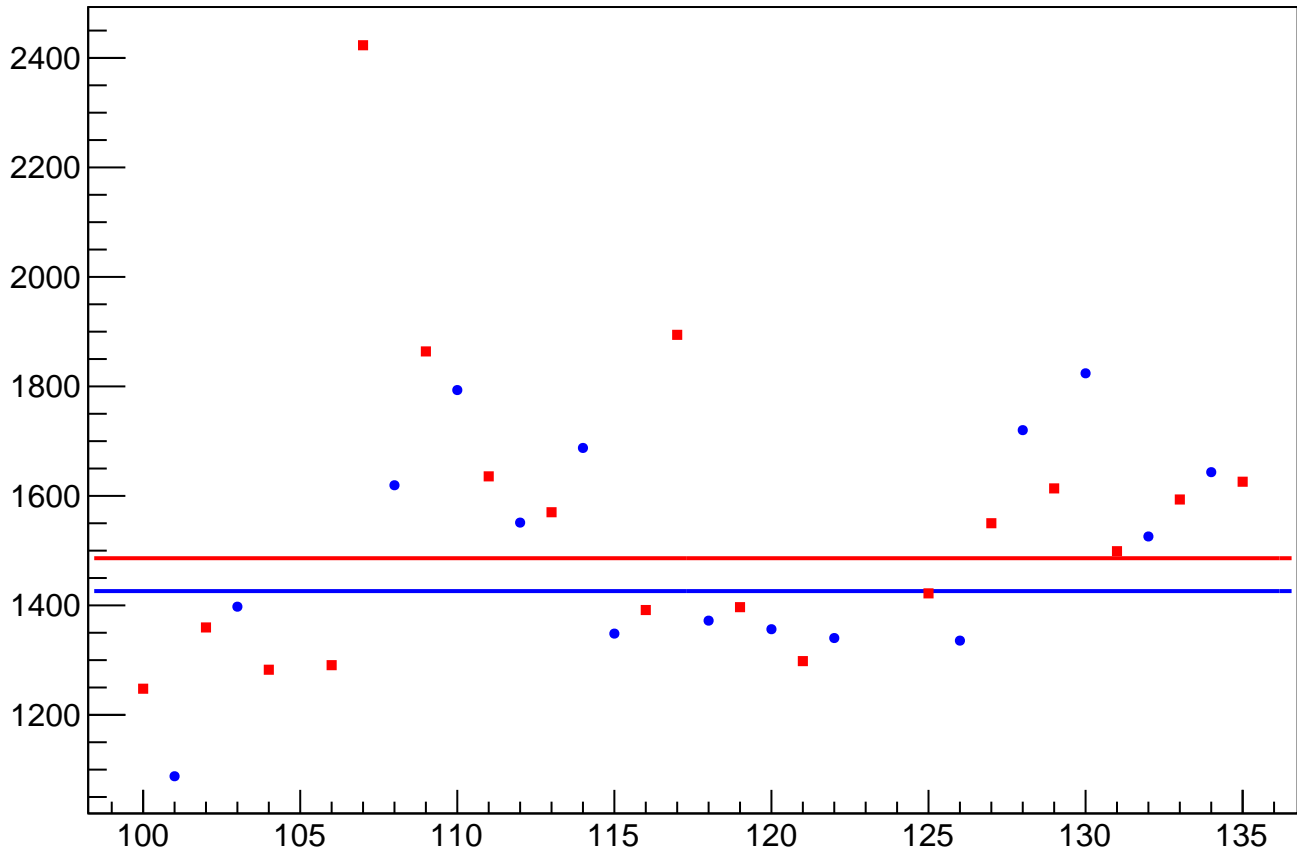
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2440.303+/-601.528  $\chi^2/\text{NDF}$ : 12.6/14

2398.660+/-415.431  $\chi^2/\text{NDF}$ : 28.5/32

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

# asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 1426.116+/-0.425  $\chi^2$ /NDF: 263779.5/14

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

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

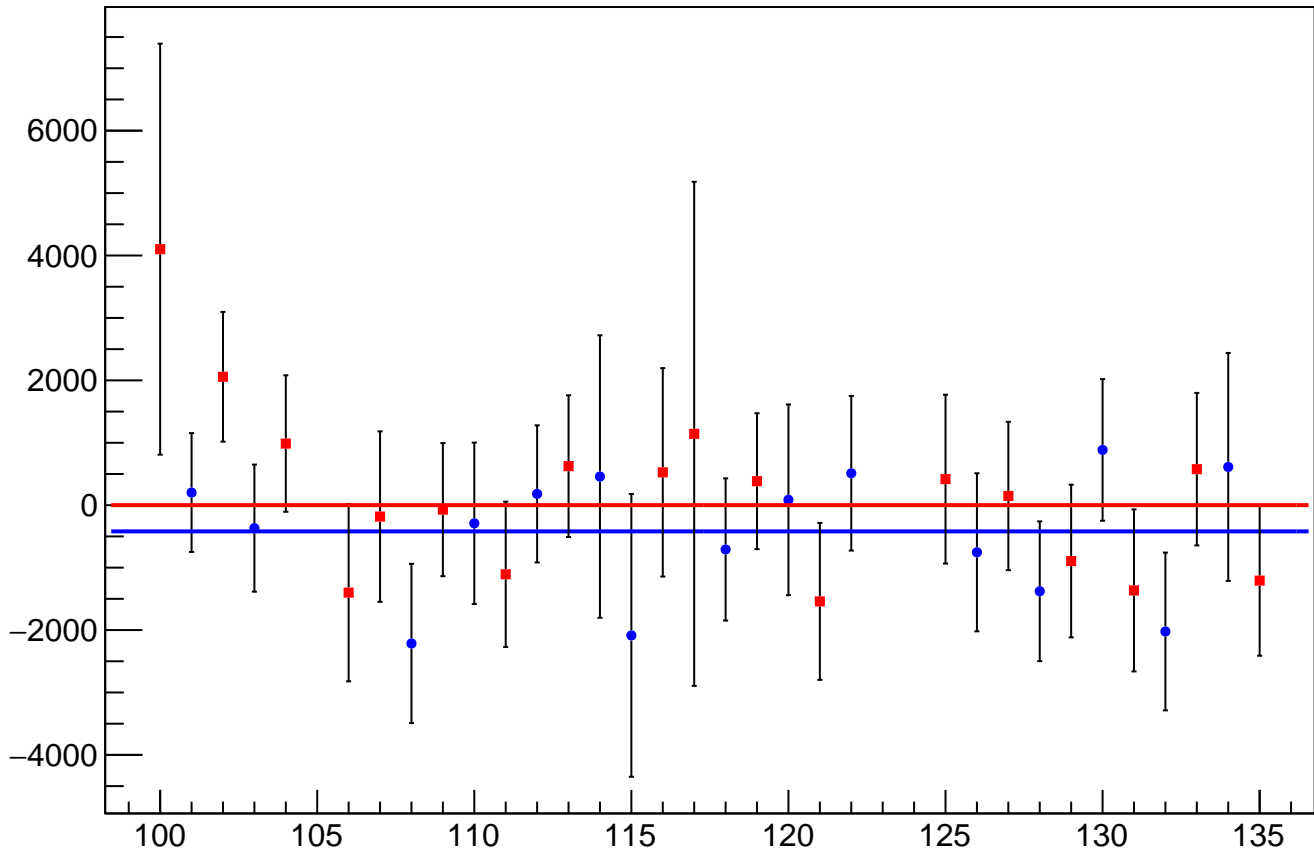
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1426.116+/-0.425  $\chi^2$ /NDF: 263779.5/14

1457.524+/-0.294  $\chi^2$ /NDF: 531157.1/32

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

# reg\_asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In:  $-419.245 \pm 324.850$   $\chi^2/\text{NDF}: 8.2/14$

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

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

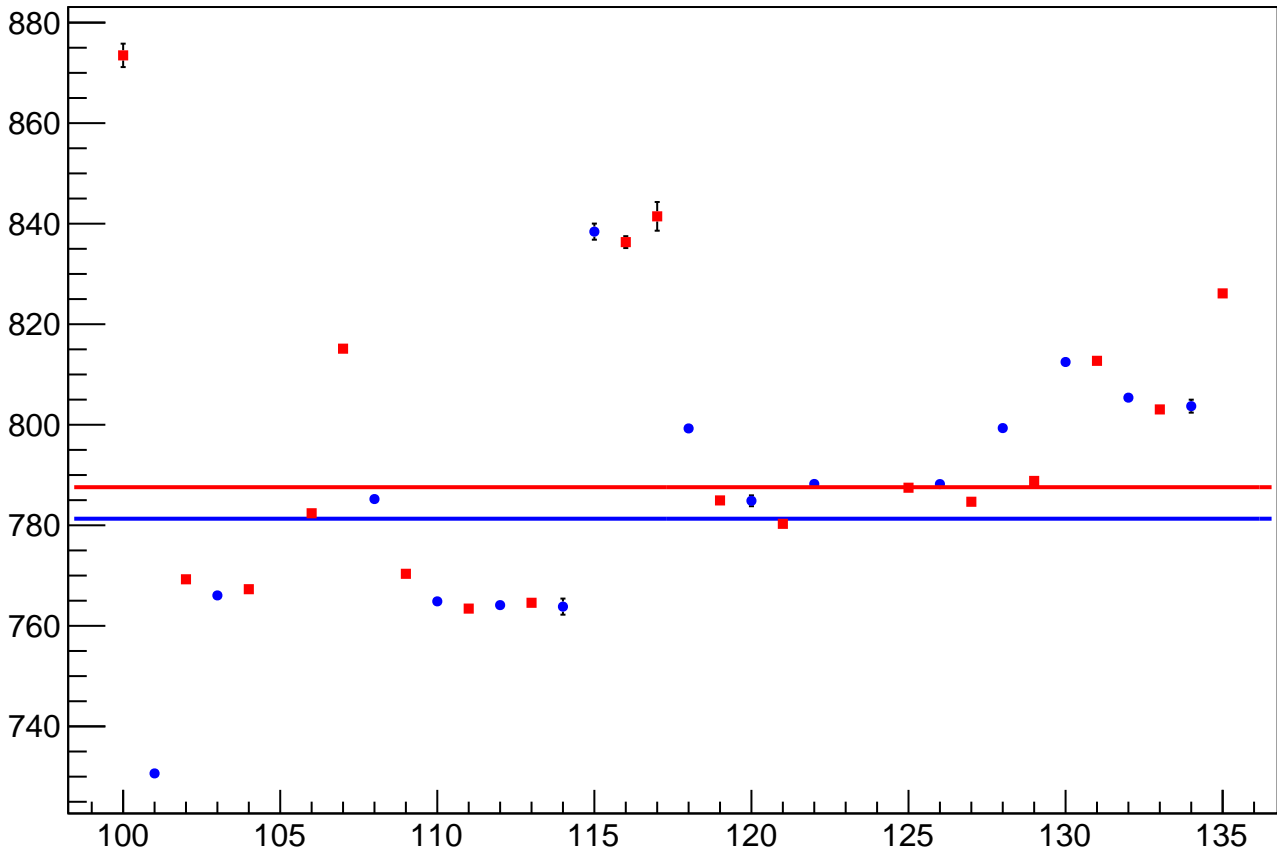
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-419.245 \pm 324.850$   $\chi^2/\text{NDF}: 8.2/14$

$-193.100 \pm 220.705$   $\chi^2/\text{NDF}: 22.4/32$

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

# reg\_asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 781.312 $\pm$ 0.230  $\chi^2$ /NDF: 12021.1/14

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

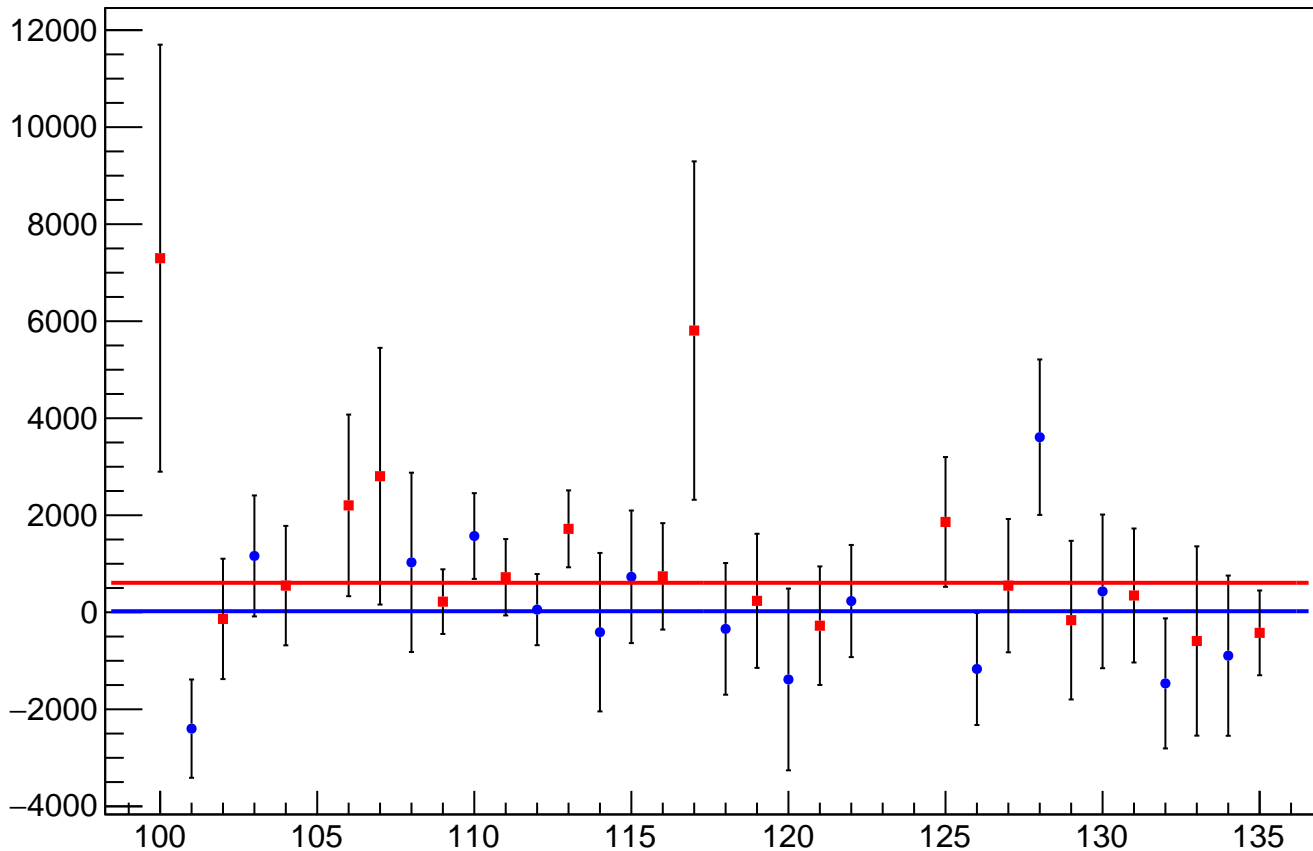
781.312 $\pm$ 0.230  $\chi^2$ /NDF: 12021.1/14

784.686 $\pm$ 0.156  $\chi^2$ /NDF: 23414.6/32

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



# asym\_us\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 21.848+/-316.292  $\chi^2$ /NDF: 18.6/14

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

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

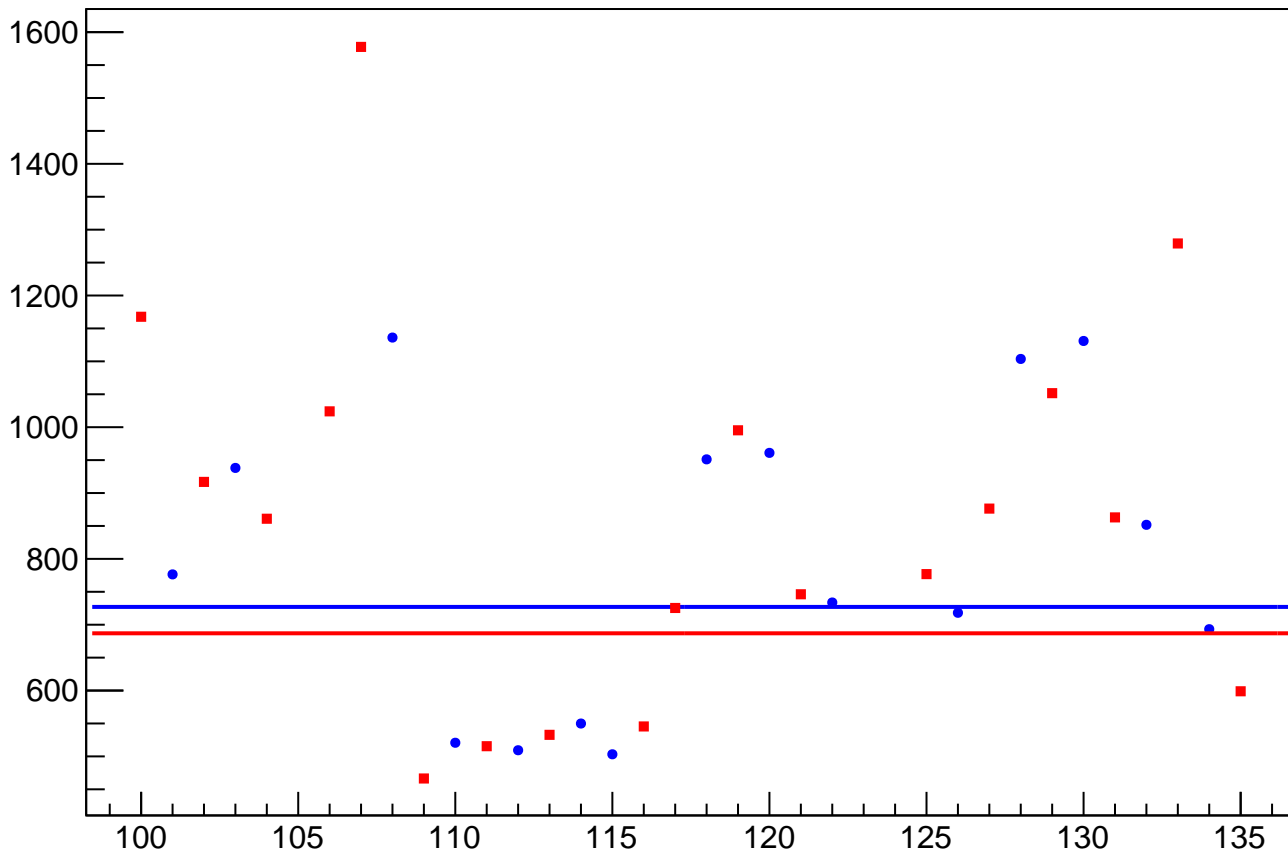
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

21.848+/-316.292  $\chi^2$ /NDF: 18.6/14

352.194+/-208.929  $\chi^2$ /NDF: 32.7/32

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

# asym\_us\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 727.033+/-0.224  $\chi^2$ /NDF: 867108.4/14

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

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

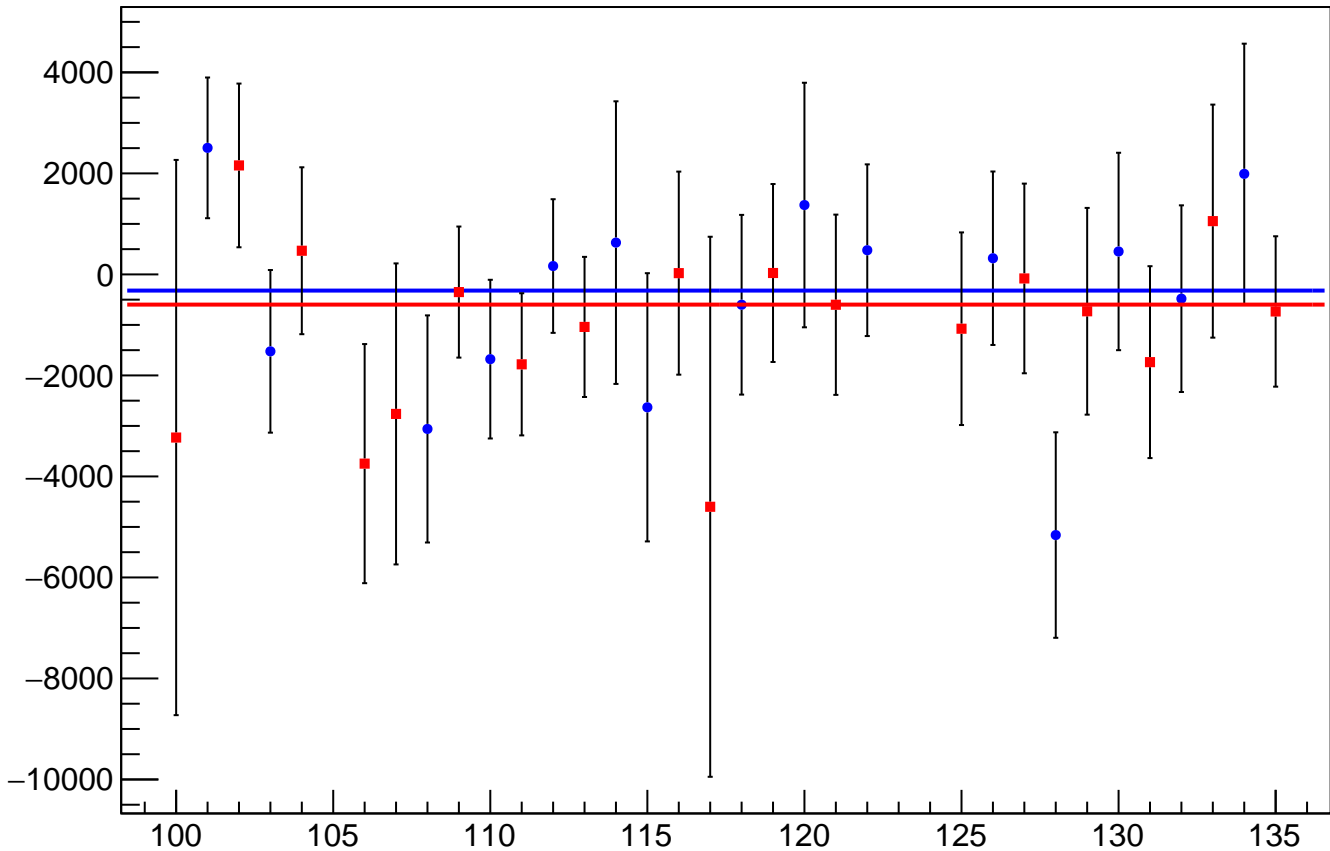
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

727.033+/-0.224  $\chi^2$ /NDF: 867108.4/14

704.441+/-0.148  $\chi^2$ /NDF: 2220081.2/32

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

# asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In:  $-320.300 \pm 473.331$   $\chi^2/\text{NDF}: 15.4/14$

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

Right Out:  $-597.953 \pm 433.473$   $\chi^2/\text{NDF}: 8.5/17$

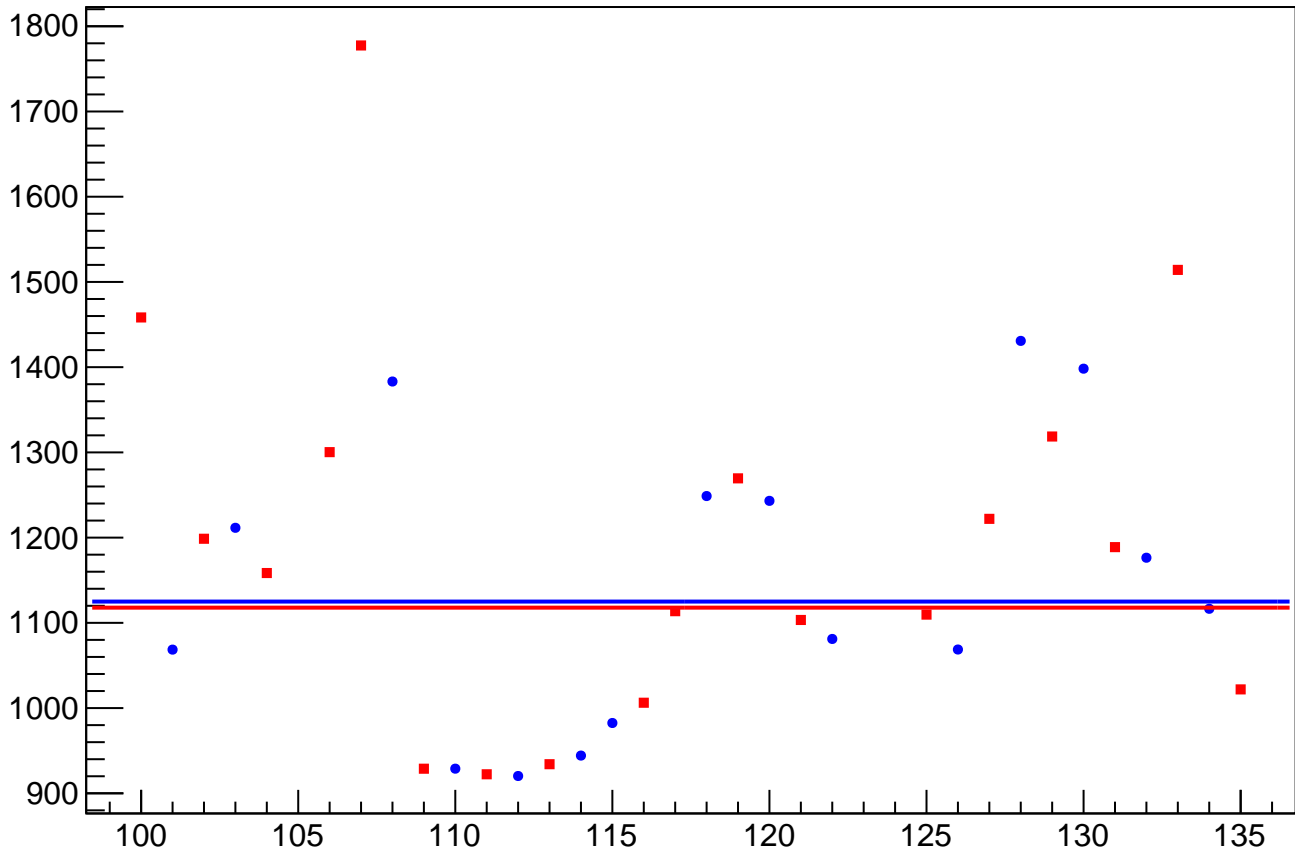
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-320.300 \pm 473.331$   $\chi^2/\text{NDF}: 15.4/14$

$-471.307 \pm 319.675$   $\chi^2/\text{NDF}: 24.1/32$

$-597.953 \pm 433.473$   $\chi^2/\text{NDF}: 8.5/17$

# asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 1124.972+/-0.335  $\chi^2/\text{NDF}$ : 232347.2/14

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

Right Out: 1117.837+/-0.307  $\chi^2/\text{NDF}$ : 356533.1/17

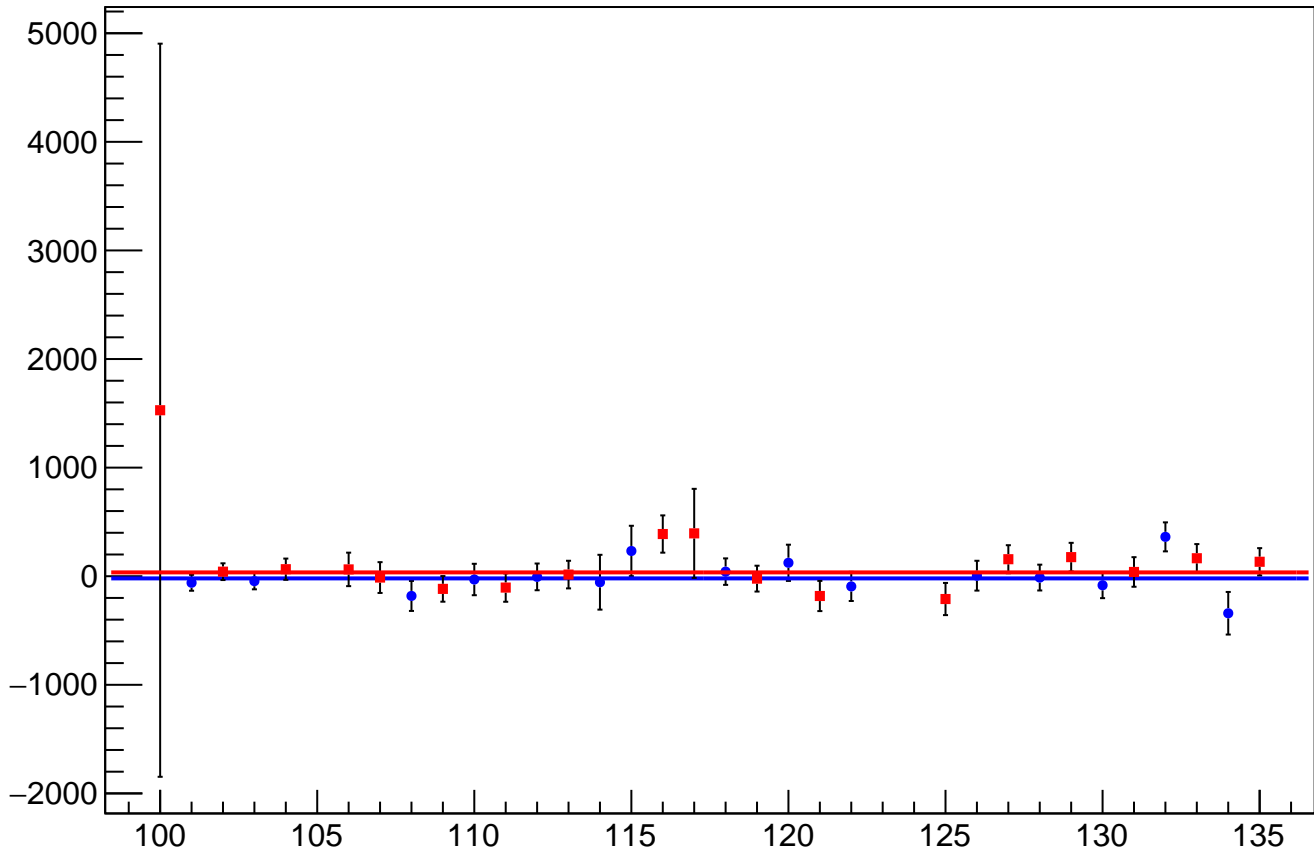
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1124.972+/-0.335  $\chi^2/\text{NDF}$ : 232347.2/14

1121.092+/-0.226  $\chi^2/\text{NDF}$ : 589127.5/32

1117.837+/-0.307  $\chi^2/\text{NDF}$ : 356533.1/17

# reg\_asym\_ds\_avg\_mean vs Slug, Sign Corrected



Right In:  $-20.087 \pm 31.666$   $\chi^2/\text{NDF}: 15.5/14$

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

Right Out:  $35.168 \pm 30.729$   $\chi^2/\text{NDF}: 17.3/17$

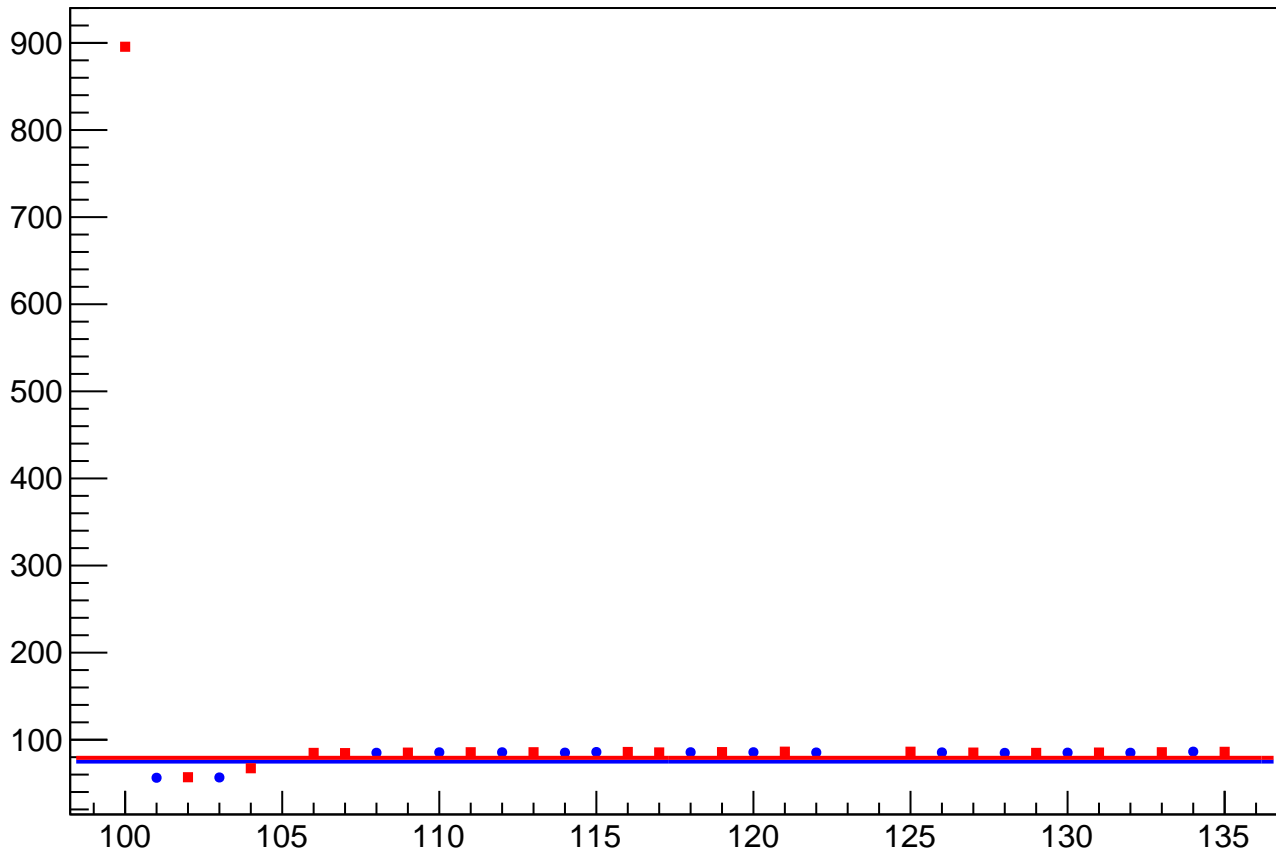
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-20.087 \pm 31.666$   $\chi^2/\text{NDF}: 15.5/14$

$8.370 \pm 22.053$   $\chi^2/\text{NDF}: 34.4/32$

$35.168 \pm 30.729$   $\chi^2/\text{NDF}: 17.3/17$

# reg\_asym\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 74.940+/-0.022  $\chi^2$ /NDF: 384085.3/14

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

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

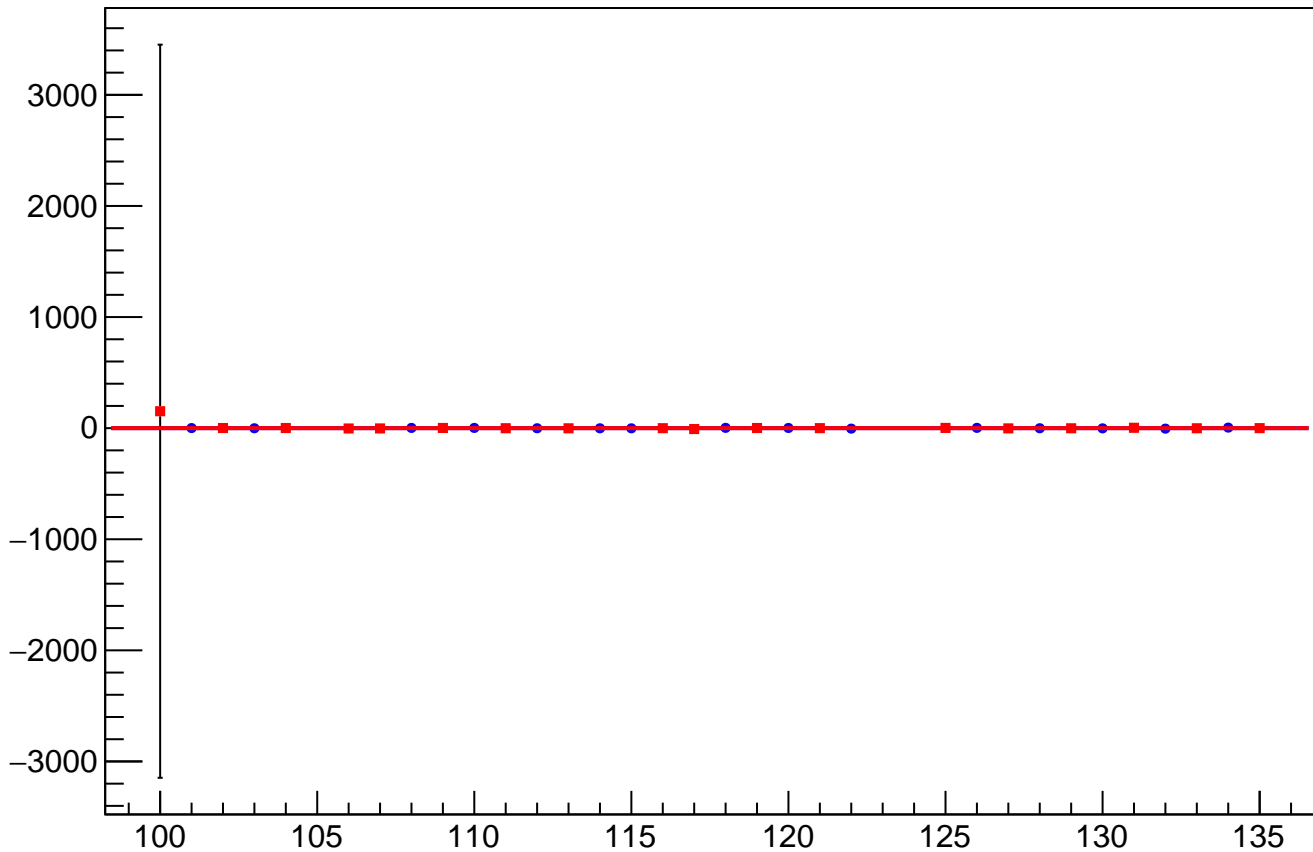
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

74.940+/-0.022  $\chi^2$ /NDF: 384085.3/14

77.170+/-0.016  $\chi^2$ /NDF: 780193.3/32

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

asym\_ds\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.045+/-0.527  $\chi^2$ /NDF: 17.3/14

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

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

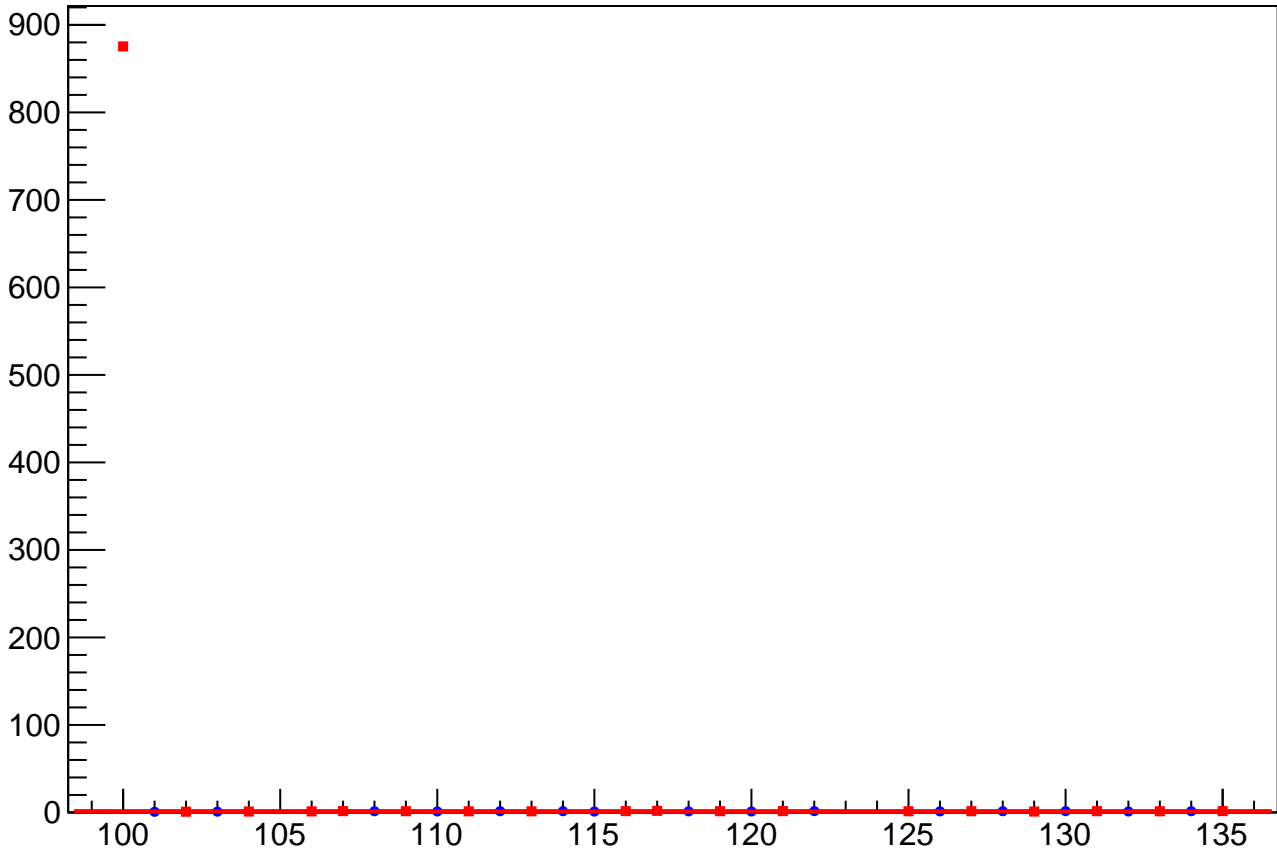
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.045+/-0.527  $\chi^2$ /NDF: 17.3/14

0.044+/-0.374  $\chi^2$ /NDF: 27.0/32

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

# asym\_ds\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1.131+/-0.000  $\chi^2$ /NDF: 481644.8/14

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

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

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

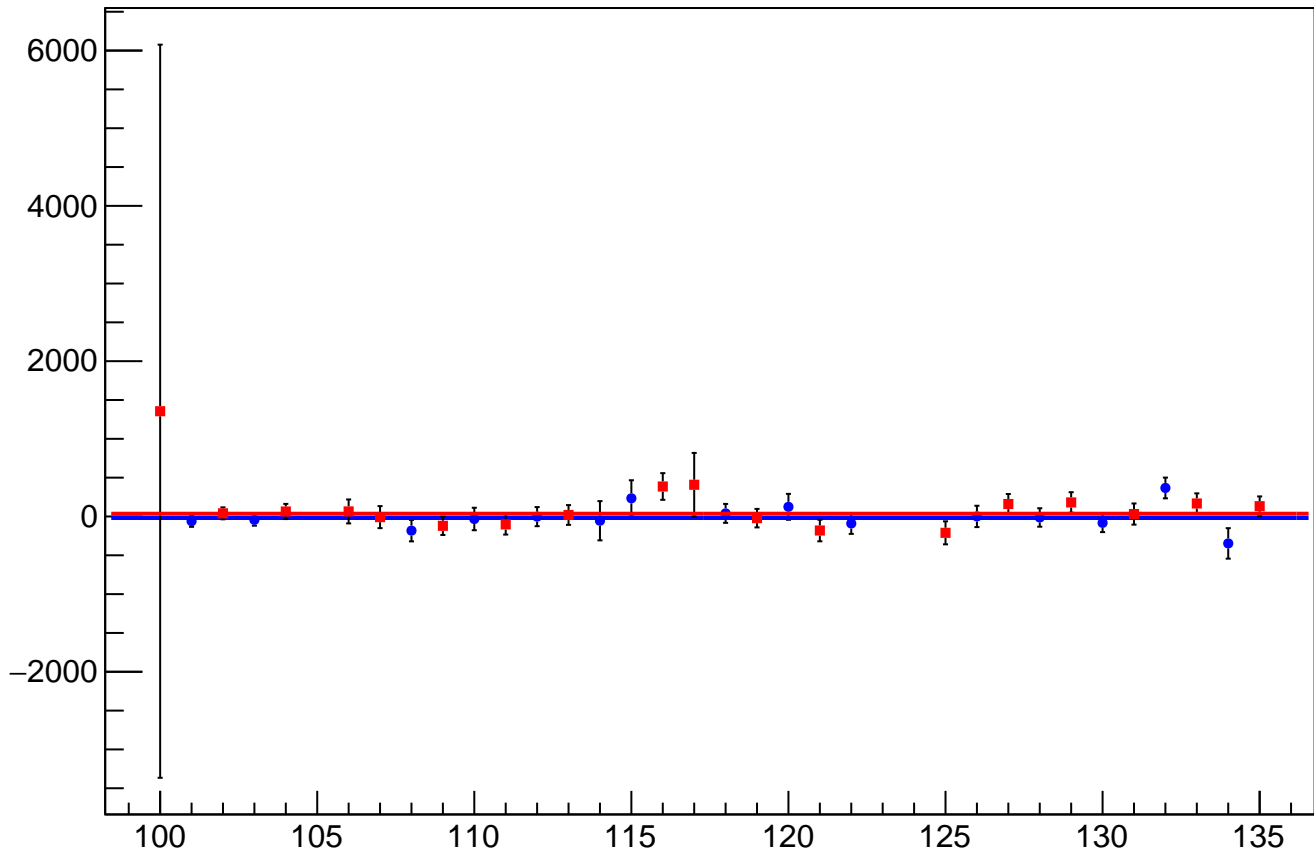
1.131+/-0.000  $\chi^2$ /NDF: 481644.8/14

1.195+/-0.000  $\chi^2$ /NDF: 1048276.7/32

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



# asym\_ds\_avg\_mean vs Slug, Sign Corrected



Right In:  $-19.483 \pm 31.675$   $\chi^2/\text{NDF}: 15.8/14$

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

Right Out:  $35.484 \pm 30.738$   $\chi^2/\text{NDF}: 17.4/17$

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

$-19.483 \pm 31.675$   $\chi^2/\text{NDF}: 15.8/14$

$8.825 \pm 22.059$   $\chi^2/\text{NDF}: 34.7/32$

$35.484 \pm 30.738$   $\chi^2/\text{NDF}: 17.4/17$

# asym\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 74.959+/-0.022  $\chi^2$ /NDF: 384114.8/14

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

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

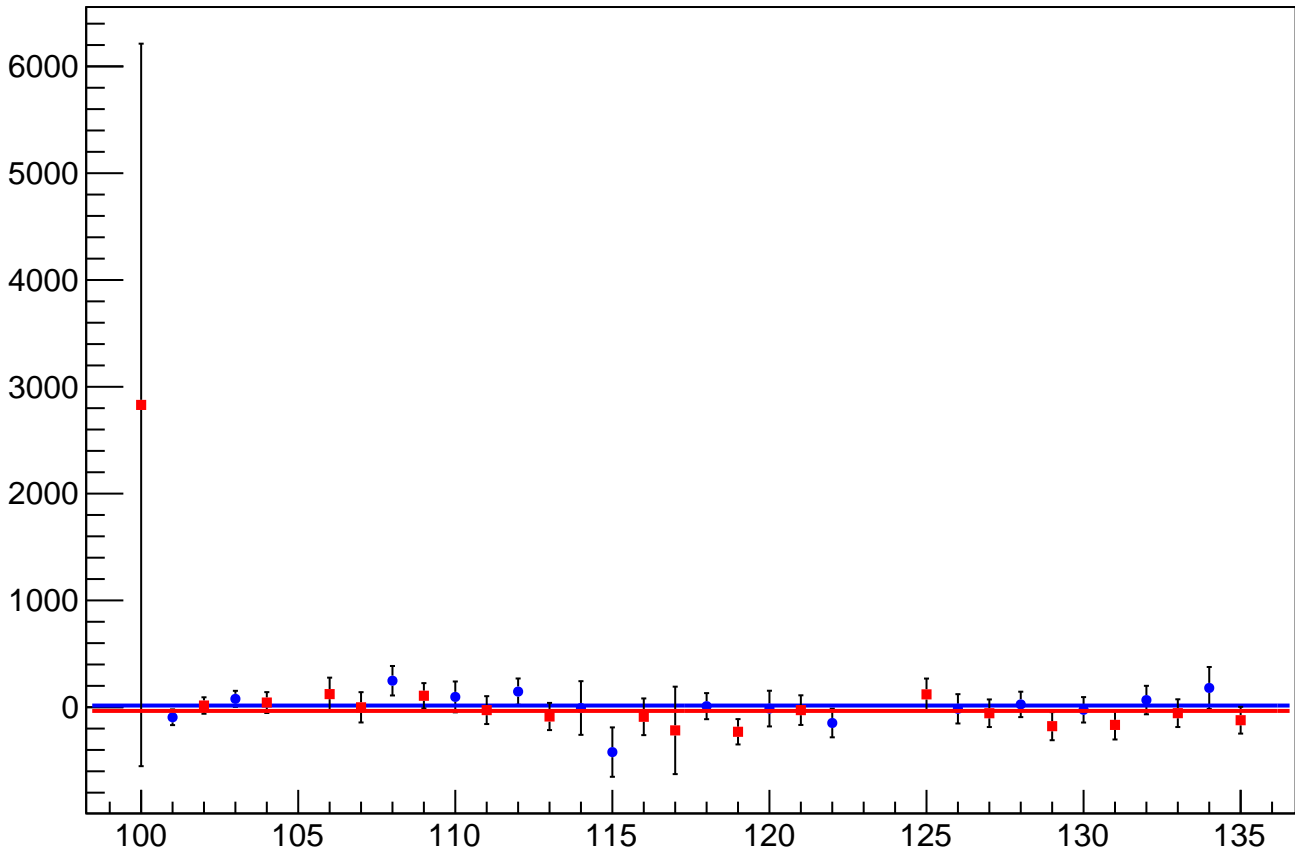
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

74.959+/-0.022  $\chi^2$ /NDF: 384114.8/14

77.181+/-0.016  $\chi^2$ /NDF: 786585.0/32

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

# reg\_asym\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: 15.629+/-31.652  $\chi^2$ /NDF: 13.3/14

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

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

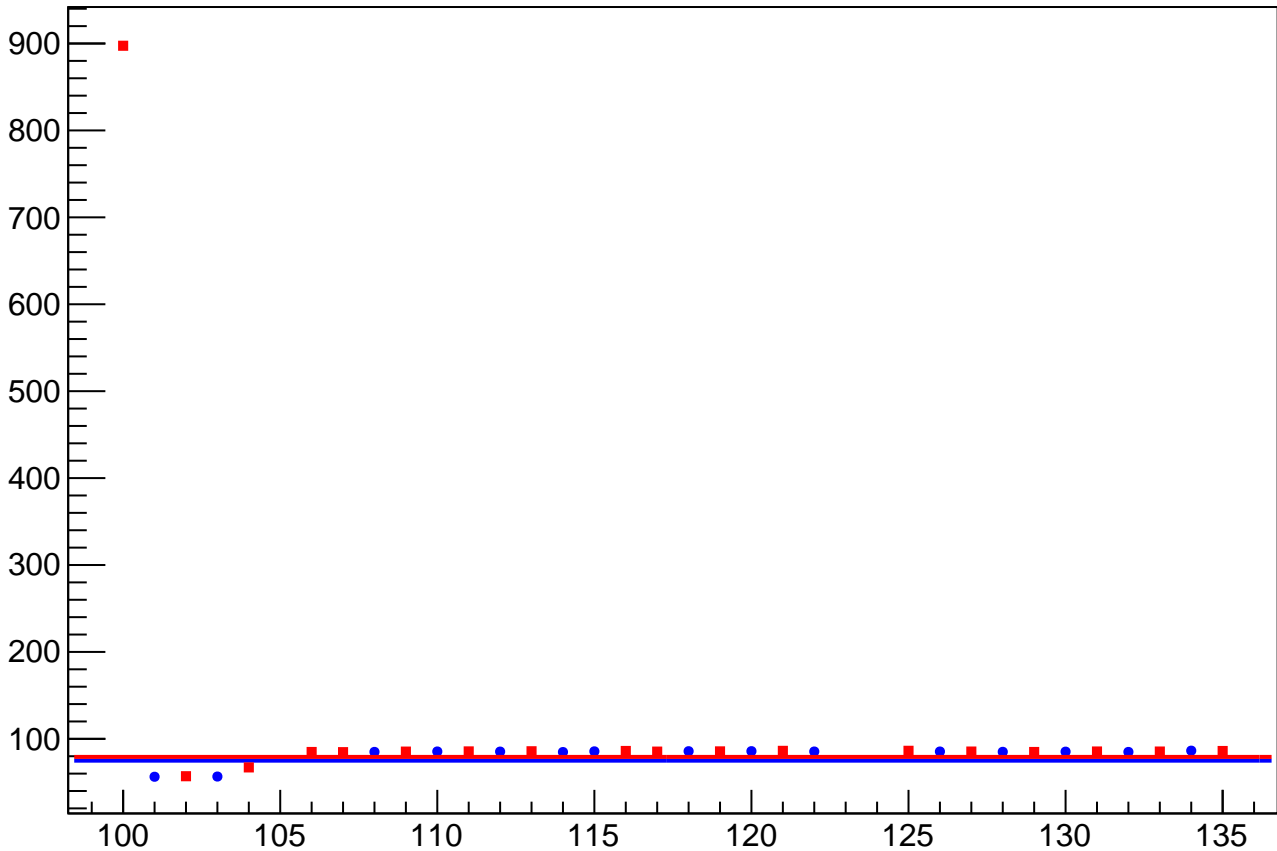
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

15.629+/-31.652  $\chi^2$ /NDF: 13.3/14

-10.281+/-22.041  $\chi^2$ /NDF: 25.9/32

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

# reg\_asym\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 74.905+/-0.022  $\chi^2$ /NDF: 384435.7/14

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

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

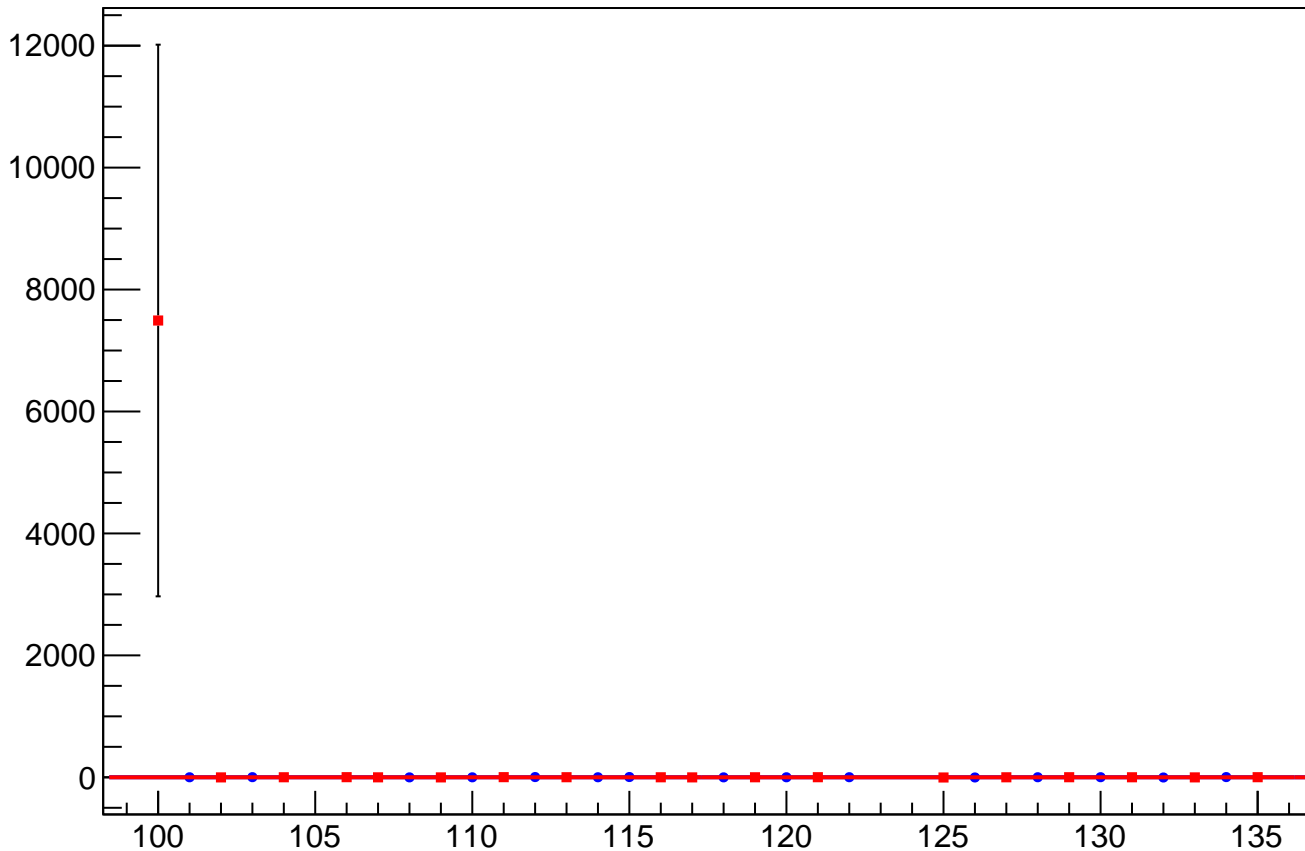
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

74.905+/-0.022  $\chi^2$ /NDF: 384435.7/14

77.129+/-0.016  $\chi^2$ /NDF: 780369.8/32

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

# asym\_ds\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.979 $\pm$ 0.561  $\chi^2$ /NDF: 11.8/14

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

Right Out: 0.179 $\pm$ 0.553  $\chi^2$ /NDF: 10.4/17

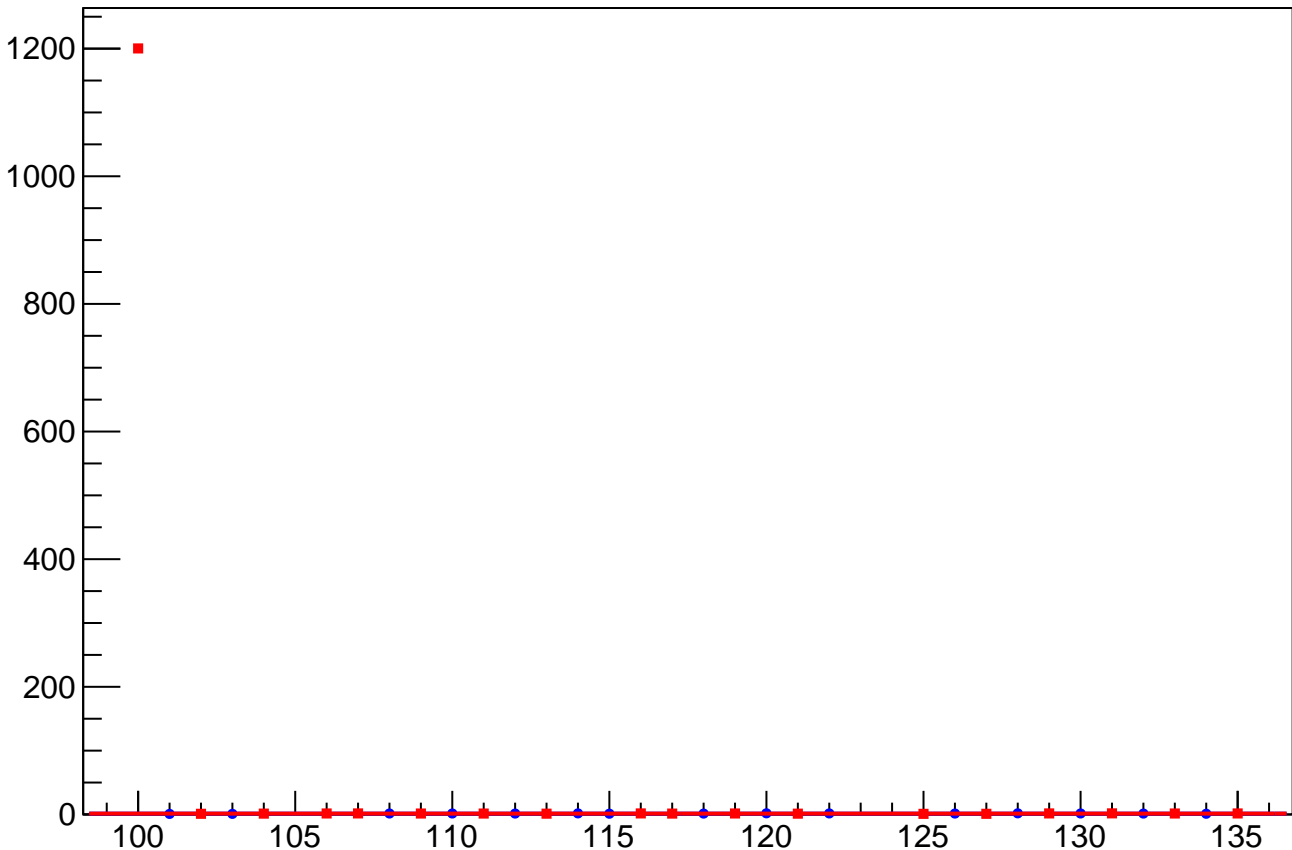
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.979 $\pm$ 0.561  $\chi^2$ /NDF: 11.8/14

0.573 $\pm$ 0.394  $\chi^2$ /NDF: 23.3/32

0.179 $\pm$ 0.553  $\chi^2$ /NDF: 10.4/17

# asym\_ds\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1.216+/-0.000  $\chi^2$ /NDF: 626974.6/14

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

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

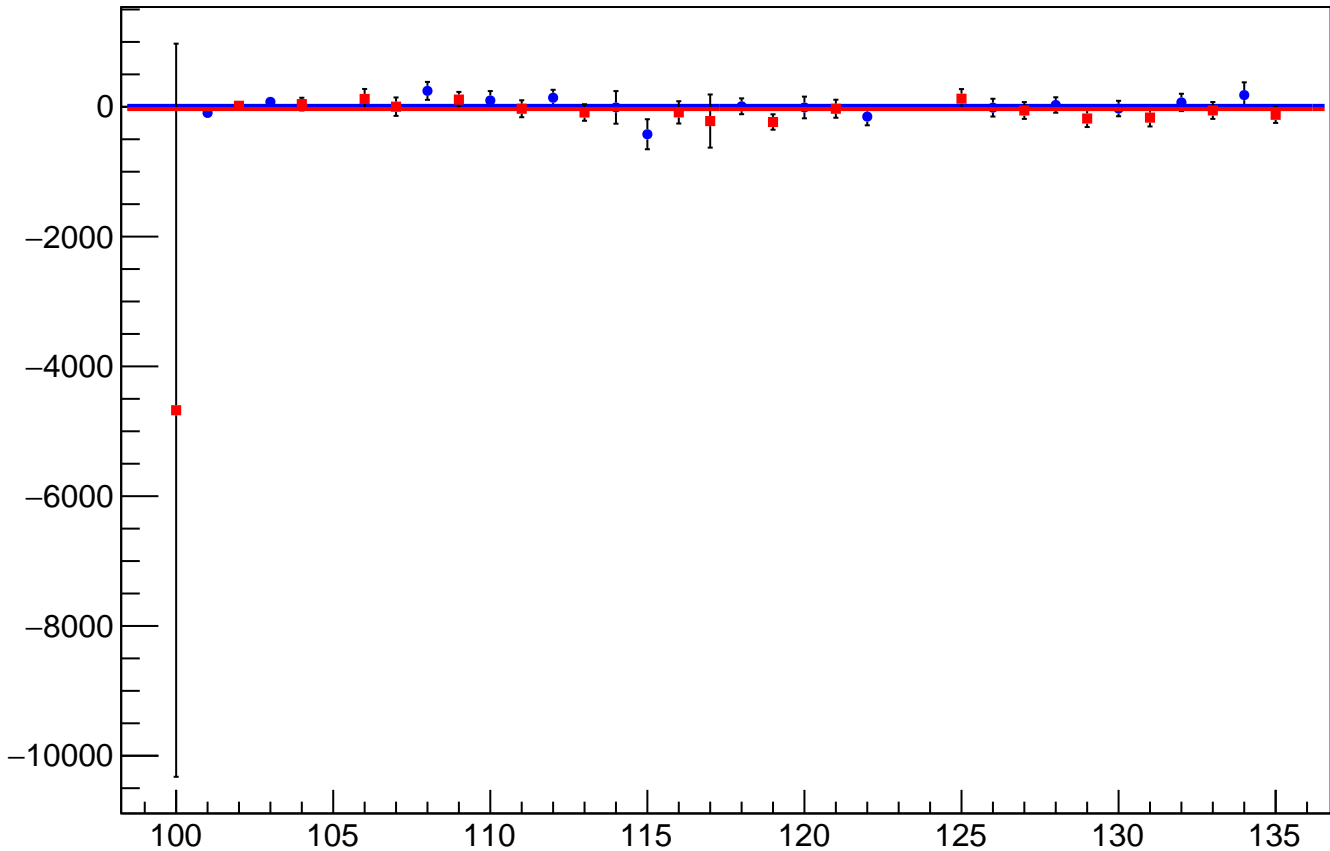
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1.216+/-0.000  $\chi^2$ /NDF: 626974.6/14

1.265+/-0.000  $\chi^2$ /NDF: 1175655.2/32

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

# asym\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: 14.858+/-31.661  $\chi^2$ /NDF: 13.2/14

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

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

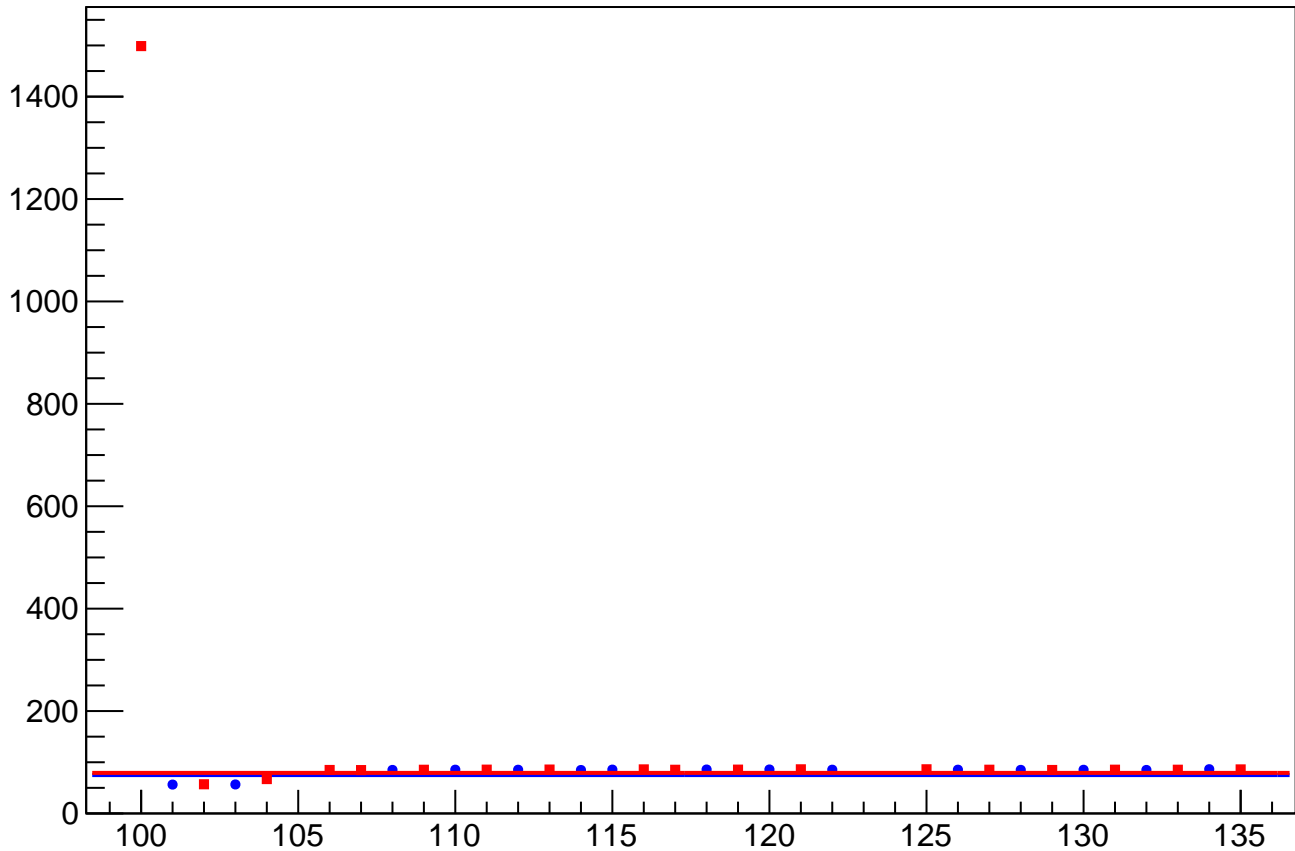
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

14.858+/-31.661  $\chi^2$ /NDF: 13.2/14

-10.906+/-22.048  $\chi^2$ /NDF: 26.0/32

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

# asym\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 74.925+/-0.022  $\chi^2$ /NDF: 384486.3/14

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

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

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

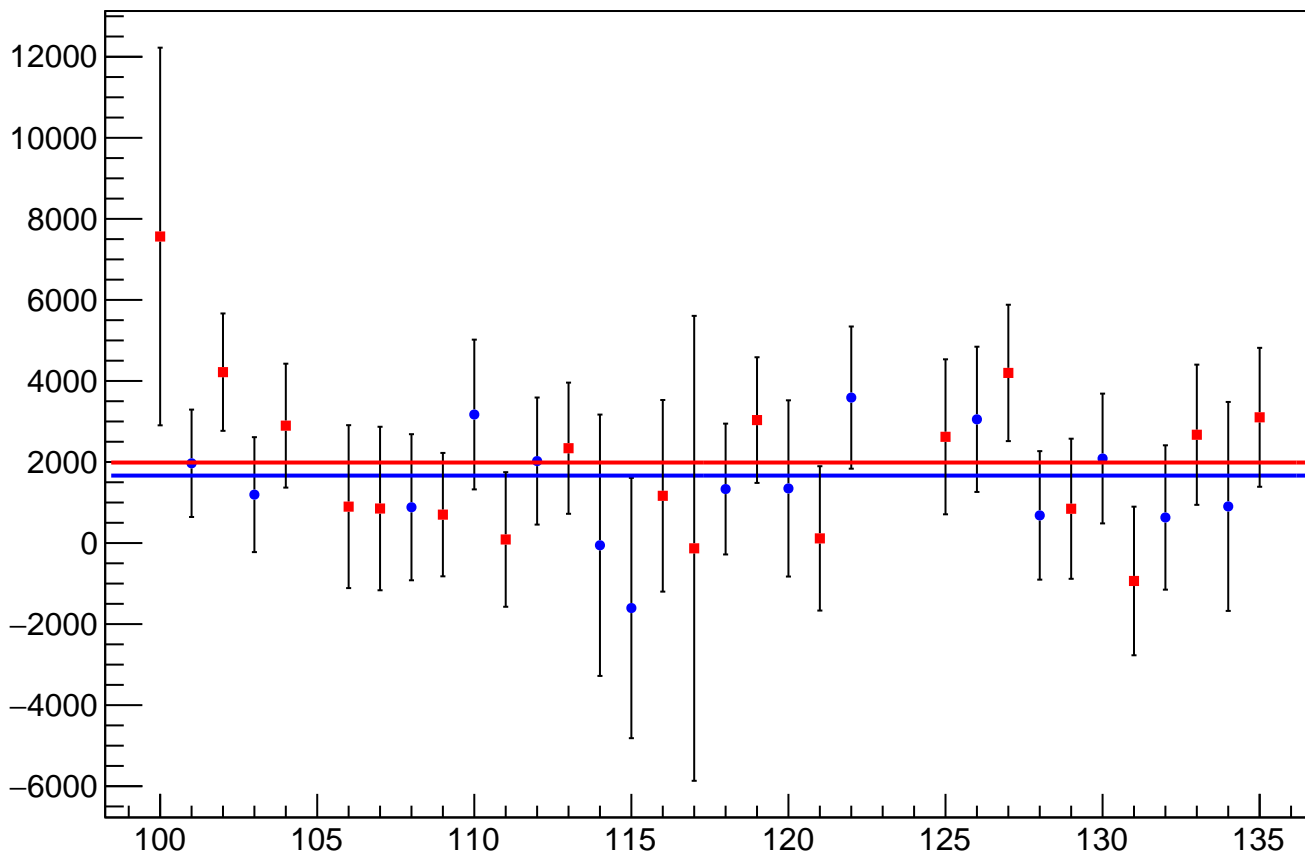
74.925+/-0.022  $\chi^2$ /NDF: 384486.3/14

77.137+/-0.016  $\chi^2$ /NDF: 789443.5/32

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



# reg\_asym\_usl\_mean vs Slug, Sign Corrected



Right In: 1664.844+/-458.730  $\chi^2/\text{NDF}$ : 5.1/14

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

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

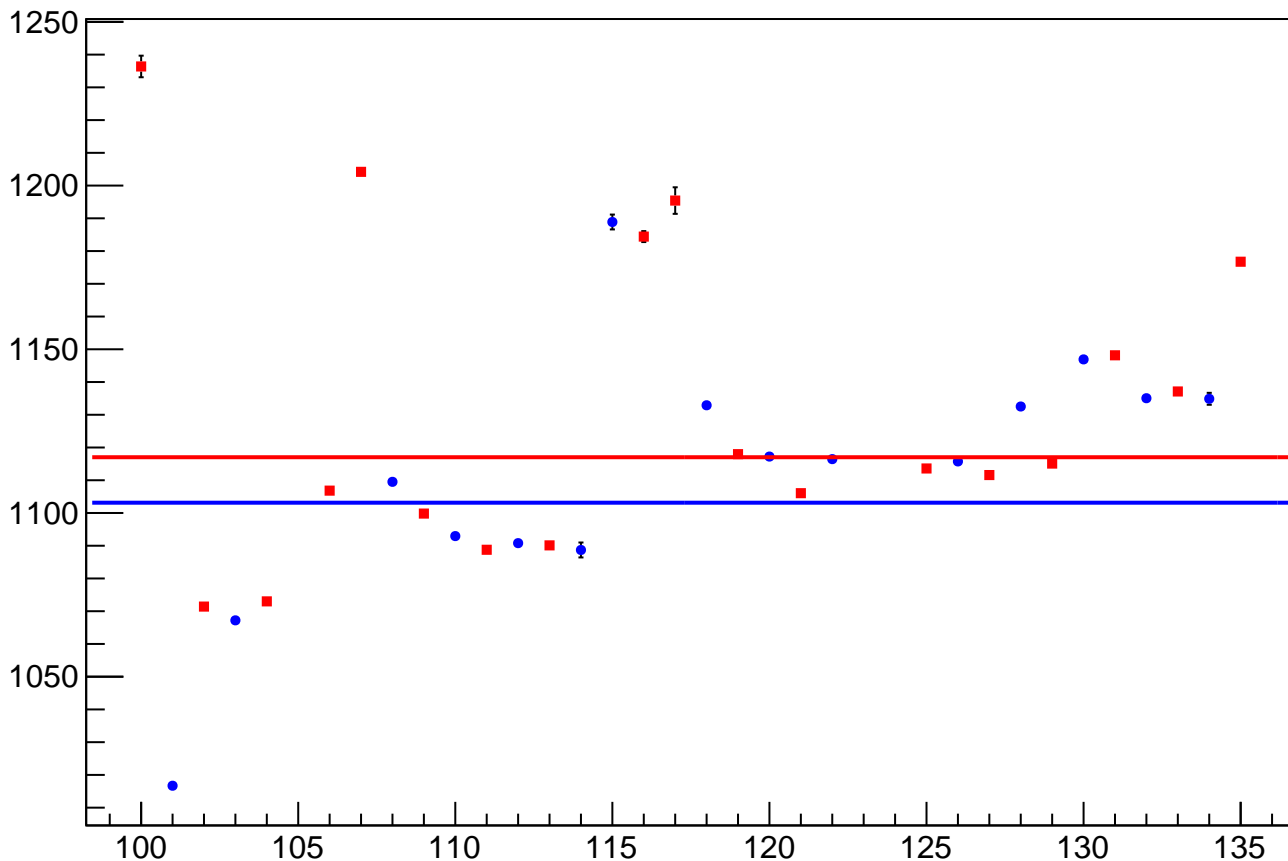
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1664.844+/-458.730  $\chi^2/\text{NDF}$ : 5.1/14

1837.644+/-312.424  $\chi^2/\text{NDF}$ : 19.4/32

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

# reg\_asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1103.142+/-0.324  $\chi^2/\text{NDF}$ : 15575.9/14

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

Right Out: 1117.029+/-0.302  $\chi^2/\text{NDF}$ : 15505.2/17

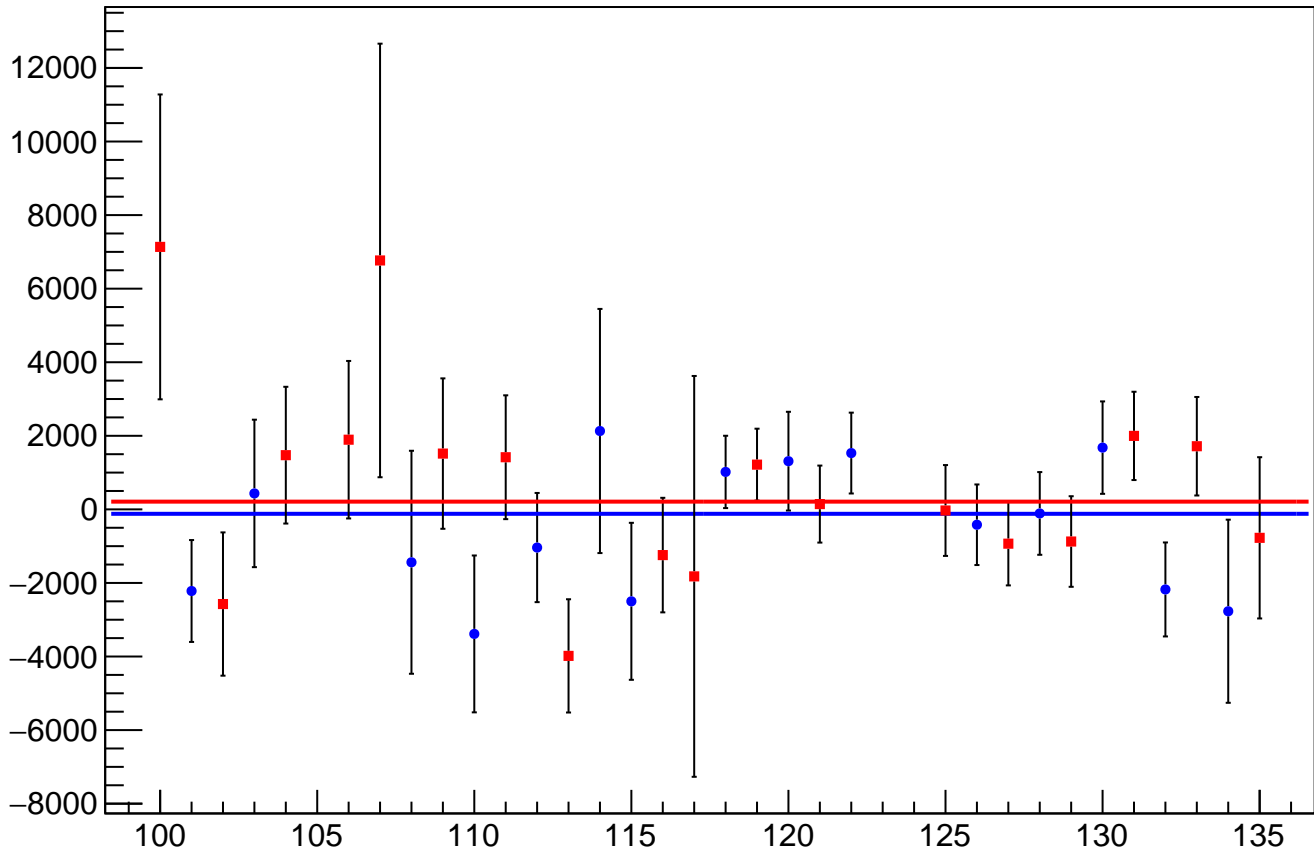
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1103.142+/-0.324  $\chi^2/\text{NDF}$ : 15575.9/14

1110.587+/-0.221  $\chi^2/\text{NDF}$ : 32063.9/32

1117.029+/-0.302  $\chi^2/\text{NDF}$ : 15505.2/17

# asym\_usl\_correction\_mean vs Slug, Sign Corrected



Right In: -120.567+/-369.781  $\chi^2$ /NDF: 17.6/14

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

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

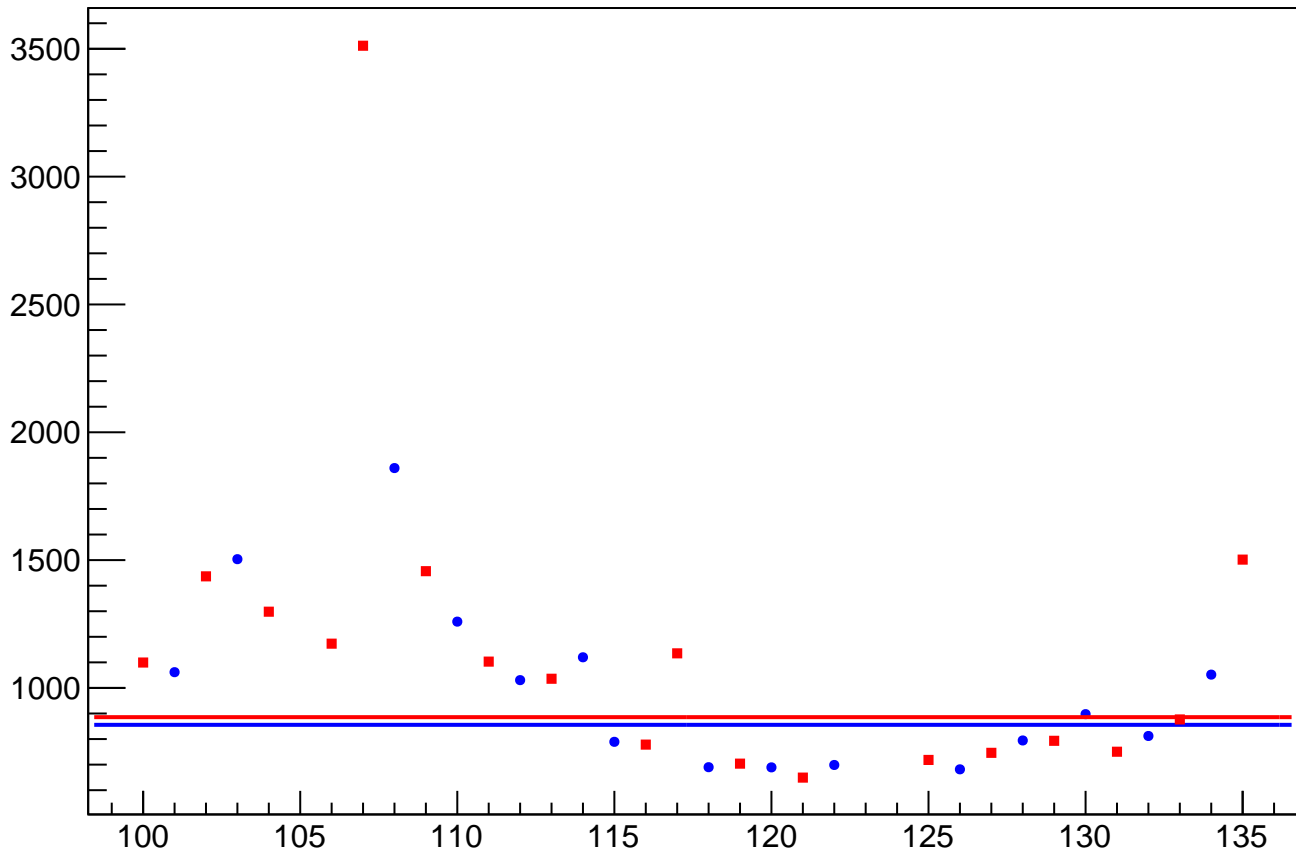
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-120.567+/-369.781  $\chi^2$ /NDF: 17.6/14

50.587+/-256.954  $\chi^2$ /NDF: 41.1/32

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

# asym\_usl\_correction\_rms vs Slug, Sign Corrected



Right In: 855.632 $\pm$ 0.261  $\chi^2$ /NDF: 788711.8/14

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

Right Out: 885.673 $\pm$ 0.253  $\chi^2$ /NDF: 1352396.3/17

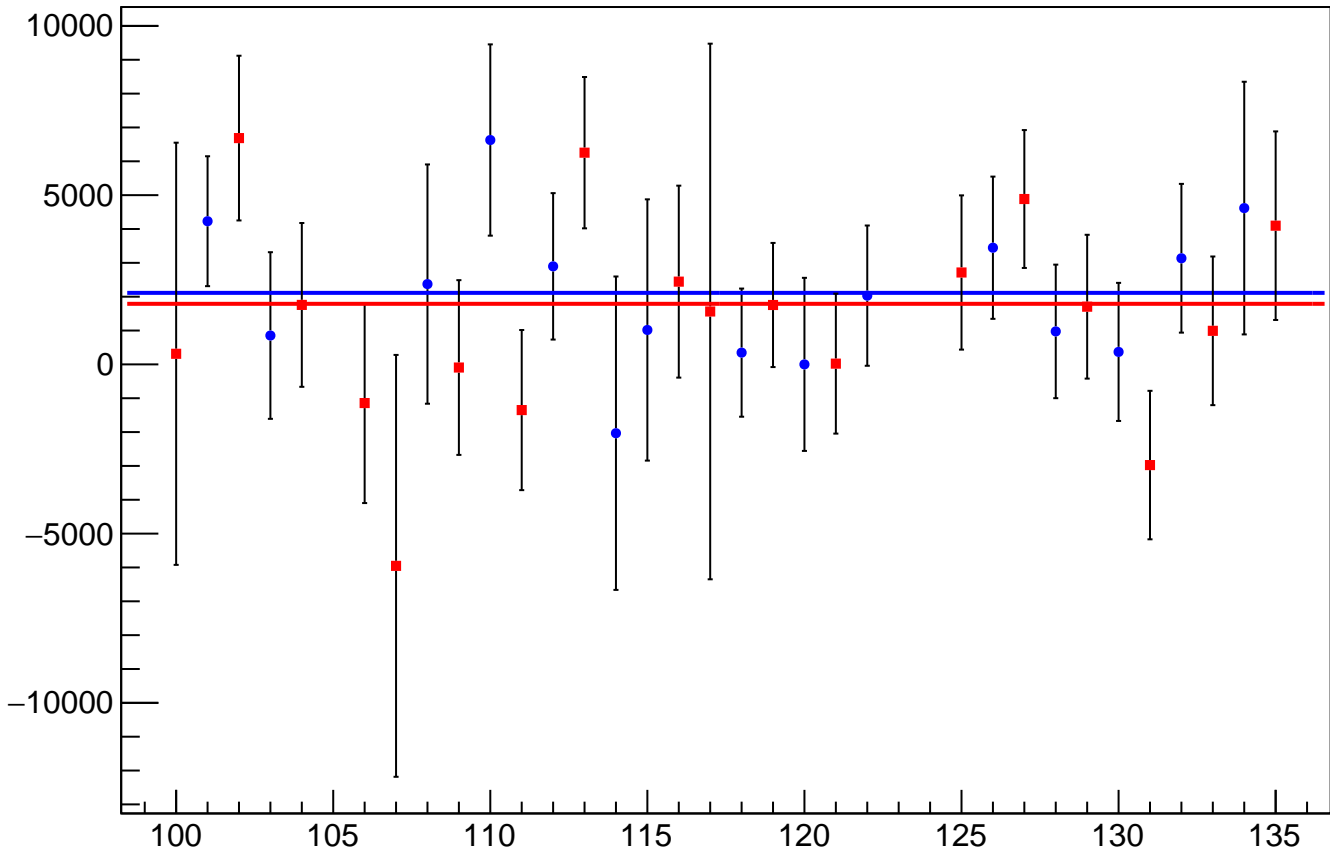
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

855.632 $\pm$ 0.261  $\chi^2$ /NDF: 788711.8/14

871.168 $\pm$ 0.182  $\chi^2$ /NDF: 2147934.4/32

885.673 $\pm$ 0.253  $\chi^2$ /NDF: 1352396.3/17

# asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2113.211+/-615.823  $\chi^2/\text{NDF}$ : 8.7/14

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

Right Out: 1789.342+/-586.681  $\chi^2/\text{NDF}$ : 21.7/17

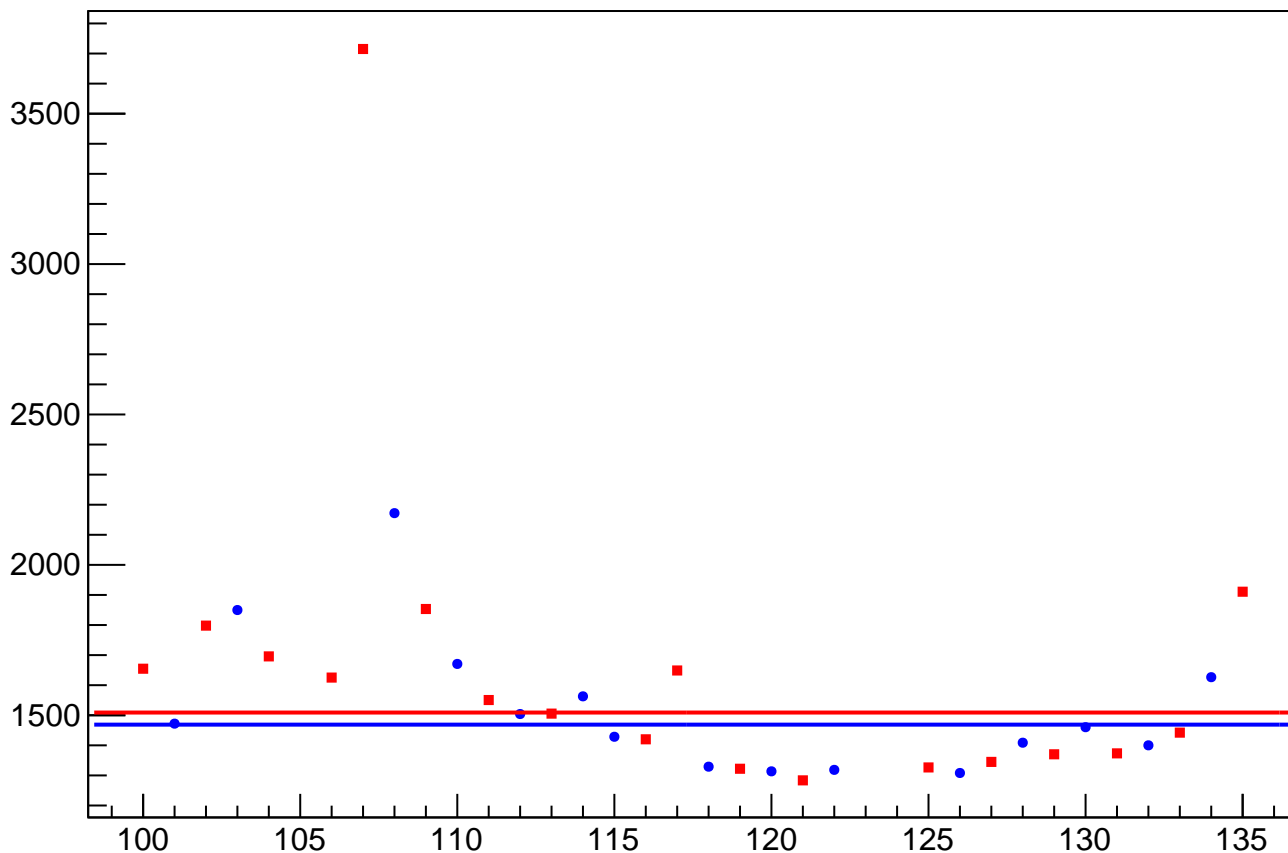
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2113.211+/-615.823  $\chi^2/\text{NDF}$ : 8.7/14

1943.432+/-424.775  $\chi^2/\text{NDF}$ : 30.6/32

1789.342+/-586.681  $\chi^2/\text{NDF}$ : 21.7/17

# asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1468.836 $\pm$ 0.435  $\chi^2$ /NDF: 186765.7/14

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

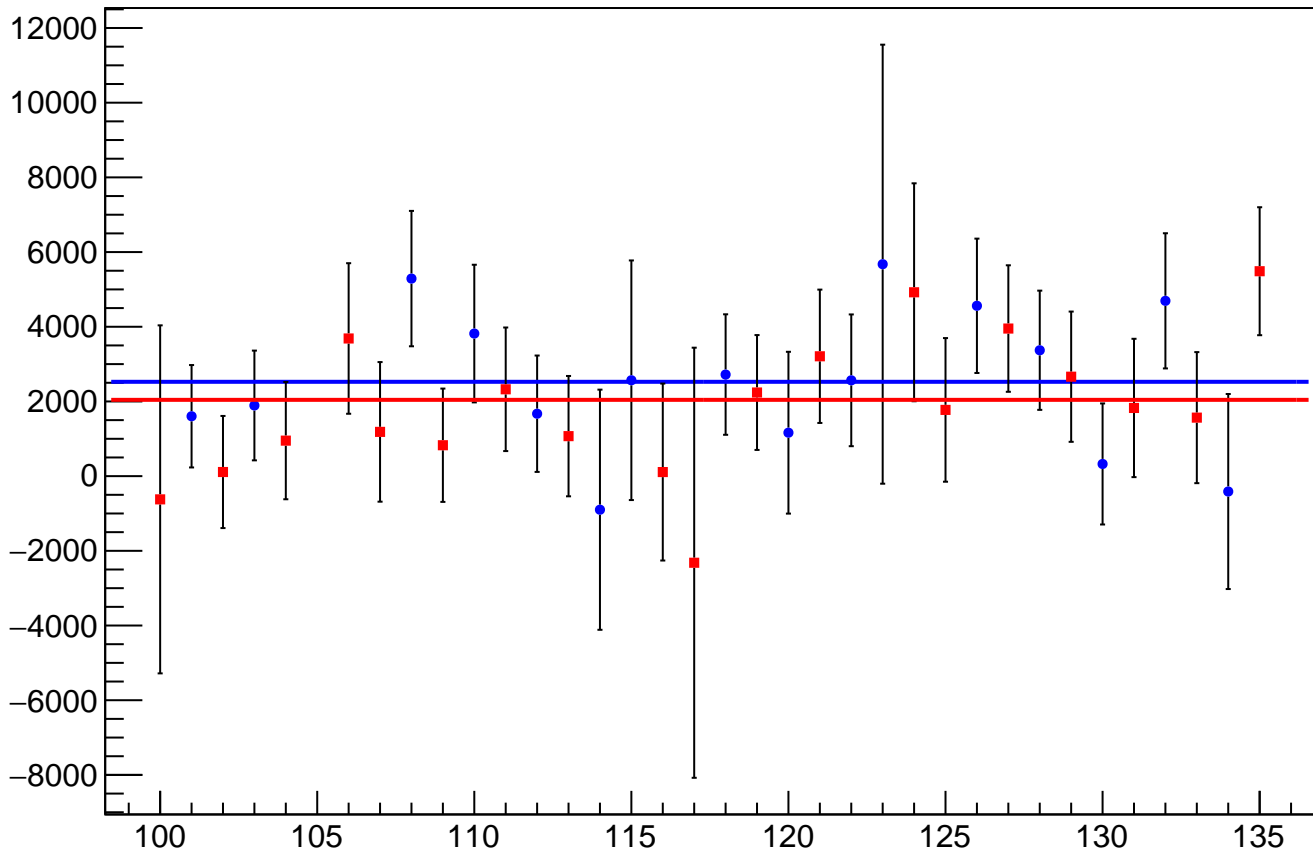
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1468.836 $\pm$ 0.435  $\chi^2$ /NDF: 186765.7/14

1489.918 $\pm$ 0.300  $\chi^2$ /NDF: 654893.1/32

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

# reg\_asym\_usr\_mean vs Slug, Sign Corrected



Right In: 2526.068+/-462.178  $\chi^2$ /NDF: 11.7/15

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

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

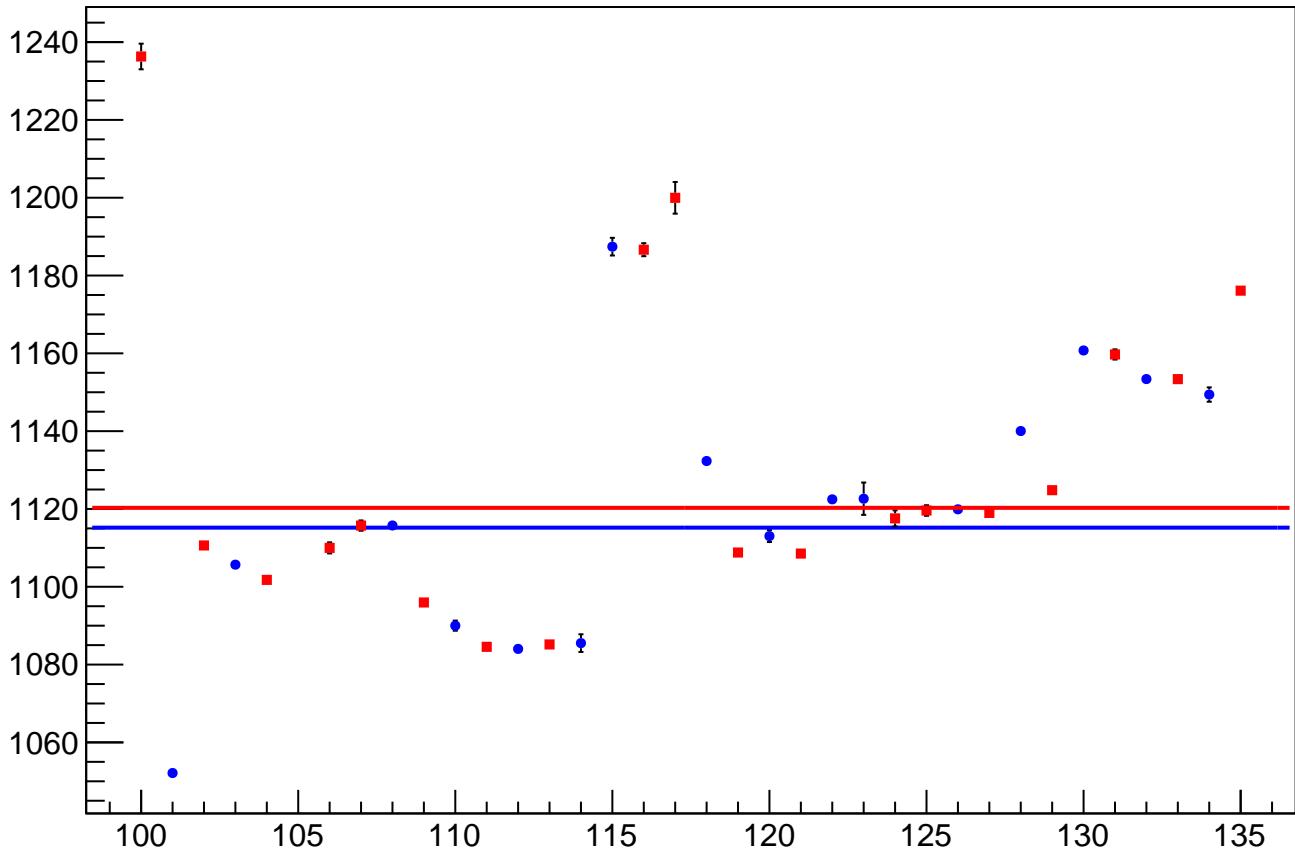
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2526.068+/-462.178  $\chi^2$ /NDF: 11.7/15

2263.331+/-312.173  $\chi^2$ /NDF: 24.9/34

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

# reg\_asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1115.197+/-0.327  $\chi^2$ /NDF: 10249.7/15

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

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

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

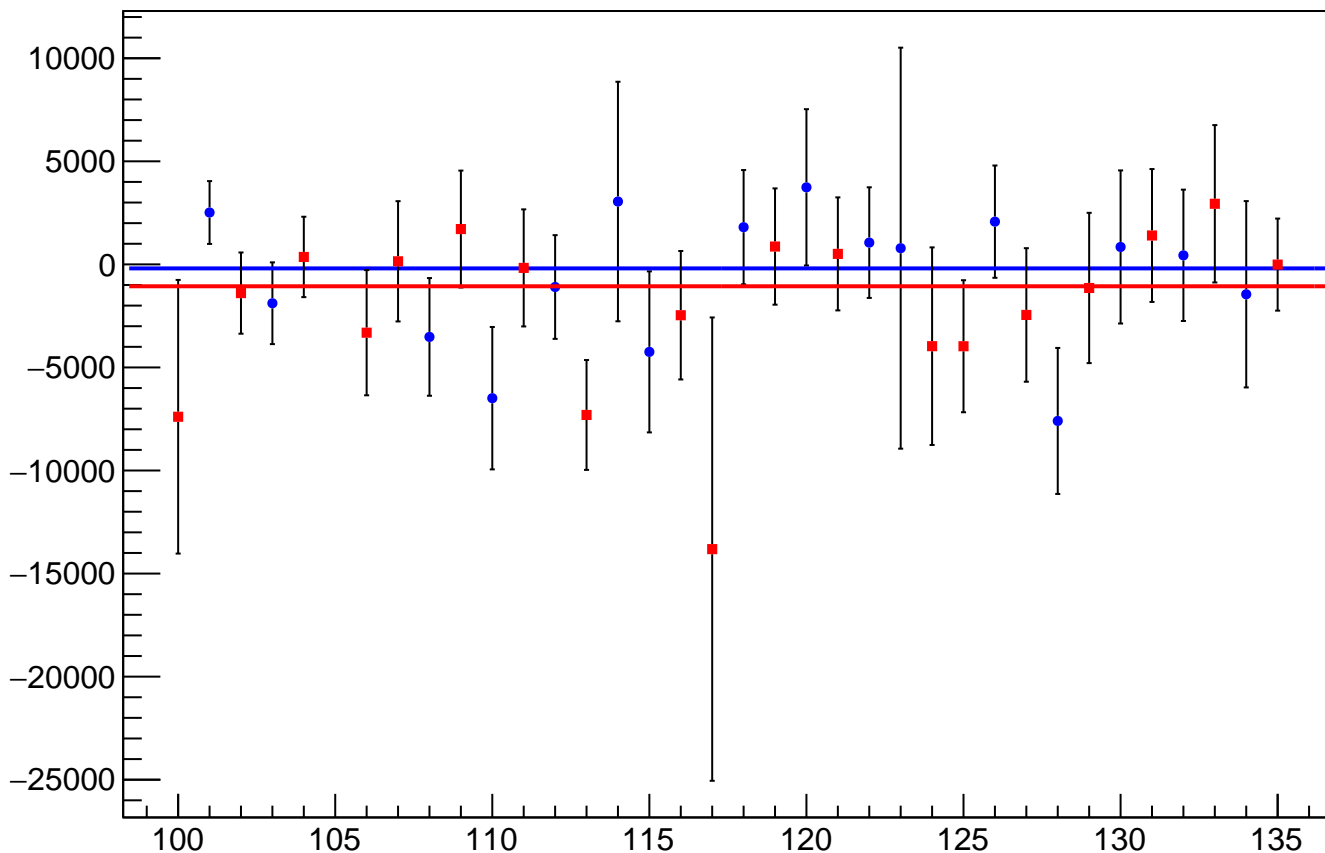
1115.197+/-0.327  $\chi^2$ /NDF: 10249.7/15

1117.968+/-0.221  $\chi^2$ /NDF: 20350.6/34

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



# asym\_usr\_correction\_mean vs Slug, Sign Corrected



Right In:  $-194.828 \pm 720.079$   $\chi^2/\text{NDF}: 17.2/15$

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

Right Out:  $-1062.497 \pm 673.443$   $\chi^2/\text{NDF}: 14.3/18$

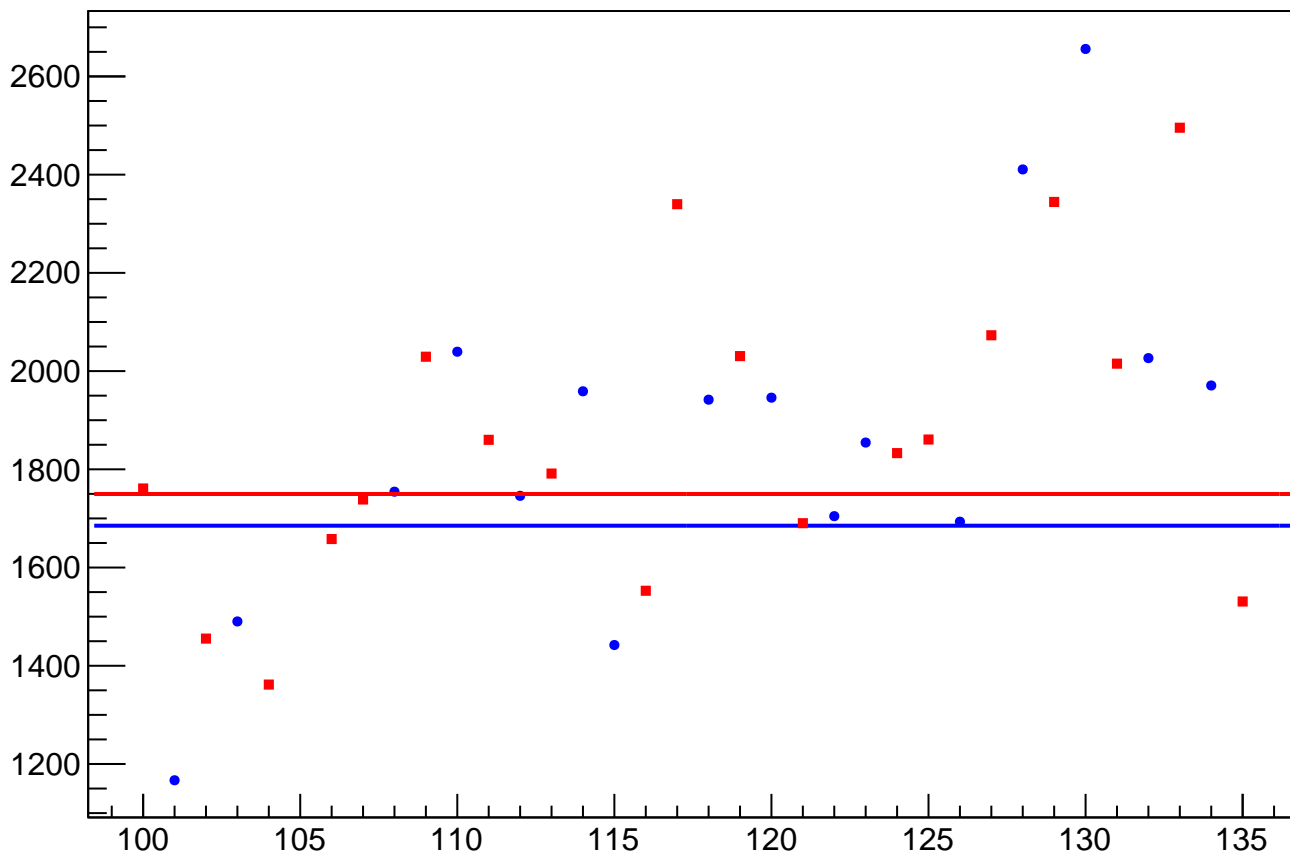
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-194.828 \pm 720.079$   $\chi^2/\text{NDF}: 17.2/15$

$-657.668 \pm 491.857$   $\chi^2/\text{NDF}: 32.2/34$

$-1062.497 \pm 673.443$   $\chi^2/\text{NDF}: 14.3/18$

# asym\_usr\_correction\_rms vs Slug, Sign Corrected



Right In: 1685.195+/-0.509  $\chi^2/\text{NDF}$ : 565211.6/15

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

Right Out: 1749.765+/-0.476  $\chi^2/\text{NDF}$ : 368204.6/18

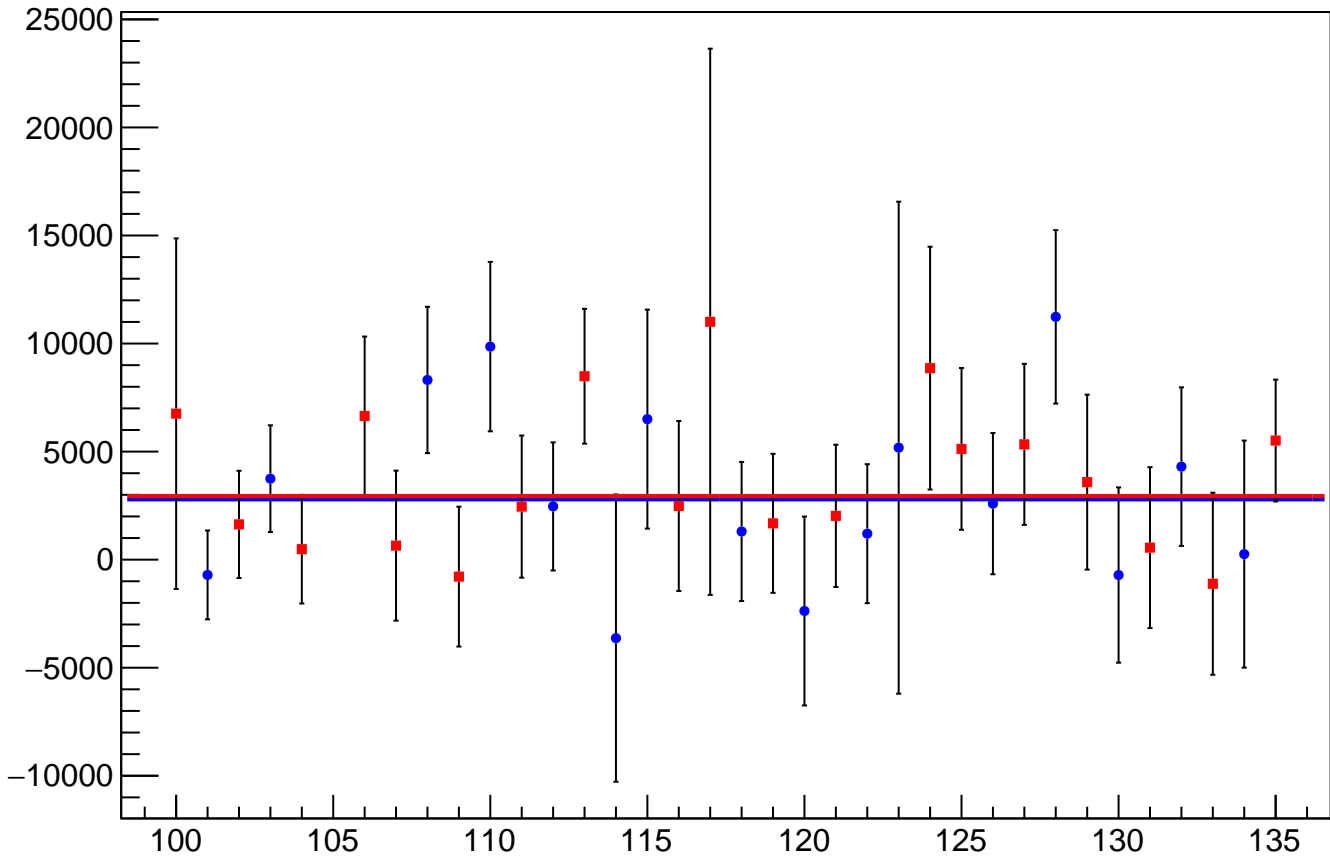
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1685.195+/-0.509  $\chi^2/\text{NDF}$ : 565211.6/15

1719.639+/-0.348  $\chi^2/\text{NDF}$ : 941994.7/34

1749.765+/-0.476  $\chi^2/\text{NDF}$ : 368204.6/18

# asym\_usr\_mean vs Slug, Sign Corrected



Right In: 2787.997 $\pm$ 874.140  $\chi^2$ /NDF: 17.9/15

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

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

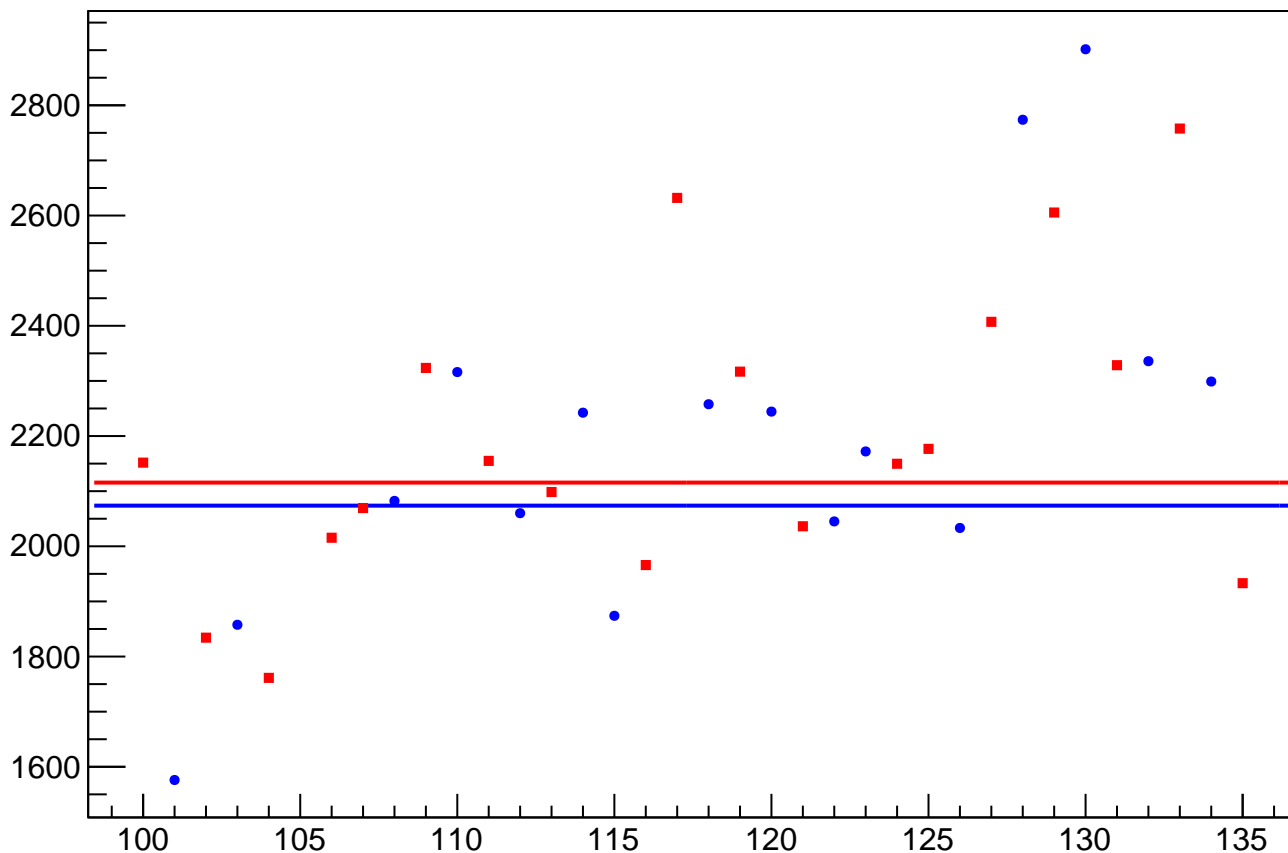
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2787.997 $\pm$ 874.140  $\chi^2$ /NDF: 17.9/15

2871.972 $\pm$ 593.087  $\chi^2$ /NDF: 30.1/34

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

# asym\_usr\_rms vs Slug, Sign Corrected



Right In: 2073.750+/-0.618  $\chi^2$ /NDF: 313015.4/15

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

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

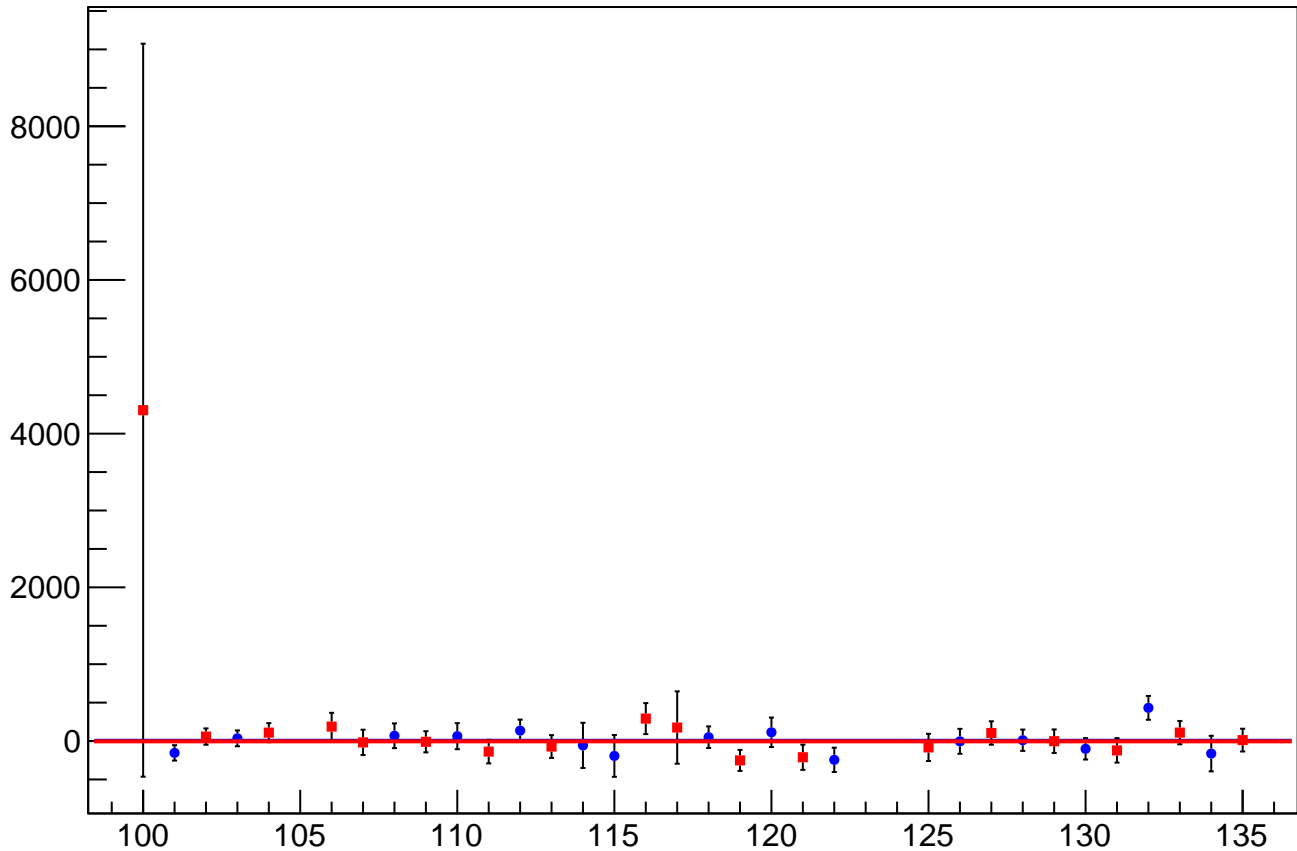
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2073.750+/-0.618  $\chi^2$ /NDF: 313015.4/15

2096.317+/-0.419  $\chi^2$ /NDF: 510200.6/34

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

# reg\_asym\_dsl\_mean vs Slug, Sign Corrected



Right In: 3.093+/-38.901  $\chi^2$ /NDF: 15.9/14

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

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

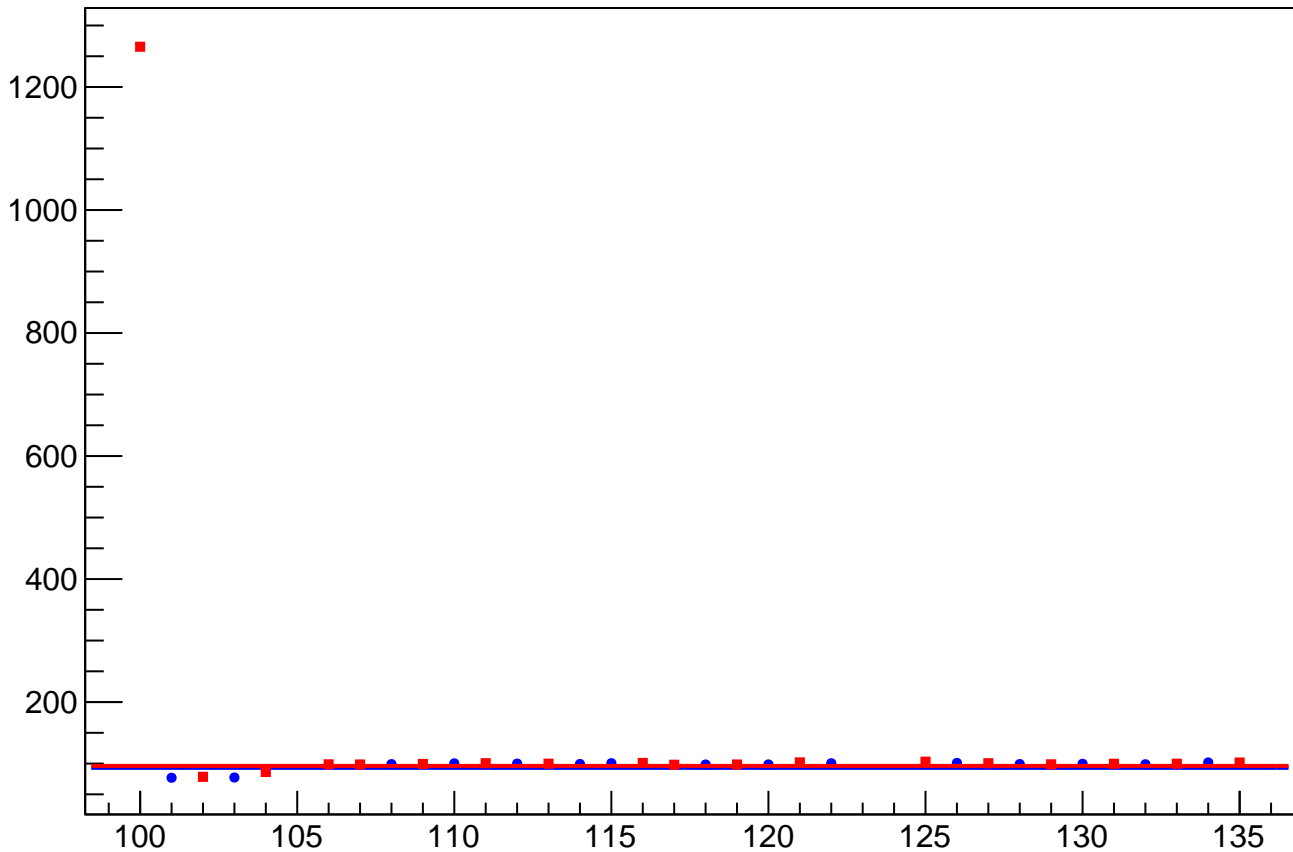
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3.093+/-38.901  $\chi^2$ /NDF: 15.9/14

-0.708+/-26.825  $\chi^2$ /NDF: 29.0/32

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

# reg\_asym\_dsl\_rms vs Slug, Sign Corrected



Right In: 93.060+/-0.028  $\chi^2$ /NDF: 139983.6/14

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

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

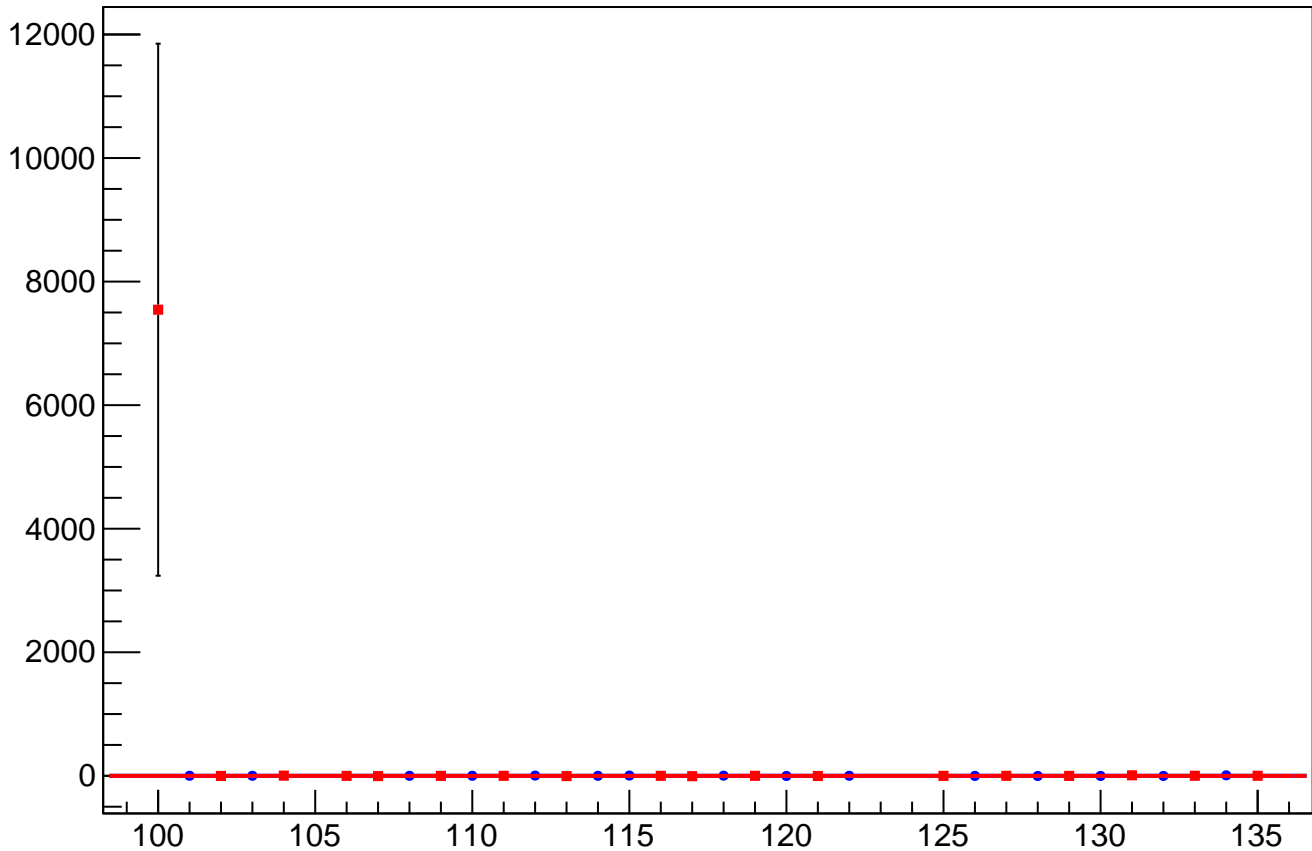
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

93.060+/-0.028  $\chi^2$ /NDF: 139983.6/14

94.728+/-0.019  $\chi^2$ /NDF: 355049.4/32

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

# asym\_dsl\_correction\_mean vs Slug, Sign Corrected



Right In: 0.520+/-0.646  $\chi^2$ /NDF: 9.5/14

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

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

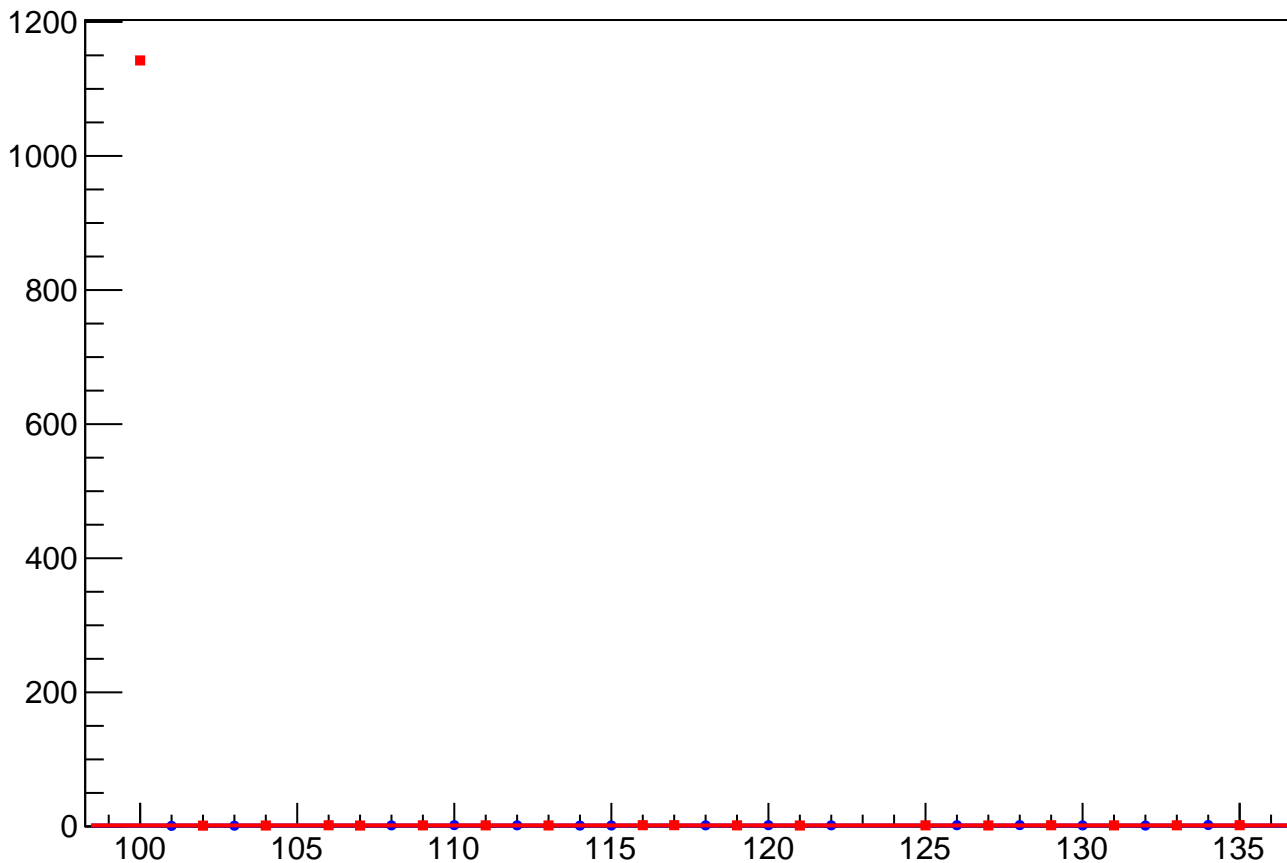
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.520+/-0.646  $\chi^2$ /NDF: 9.5/14

0.046+/-0.458  $\chi^2$ /NDF: 32.8/32

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

# asym\_dsl\_correction\_rms vs Slug, Sign Corrected



Right In: 1.383+/-0.000  $\chi^2/\text{NDF}$ : 659535.2/14

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

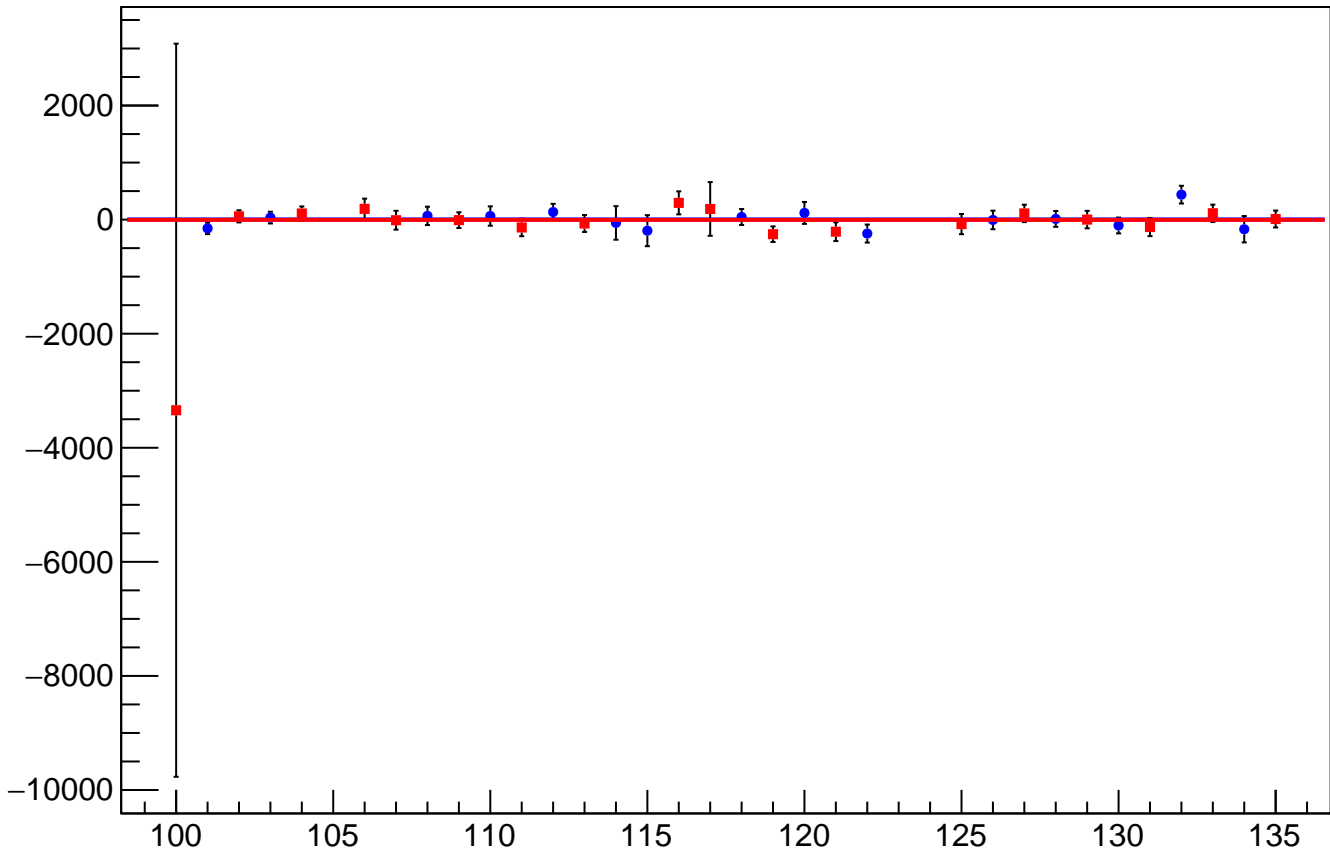
1.383+/-0.000  $\chi^2/\text{NDF}$ : 659535.2/14

1.468+/-0.000  $\chi^2/\text{NDF}$ : 1048351.9/32

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



# asym\_dsl\_mean vs Slug, Sign Corrected



Right In:  $2.827 \pm 38.911$   $\chi^2/\text{NDF}: 16.1/14$

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

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

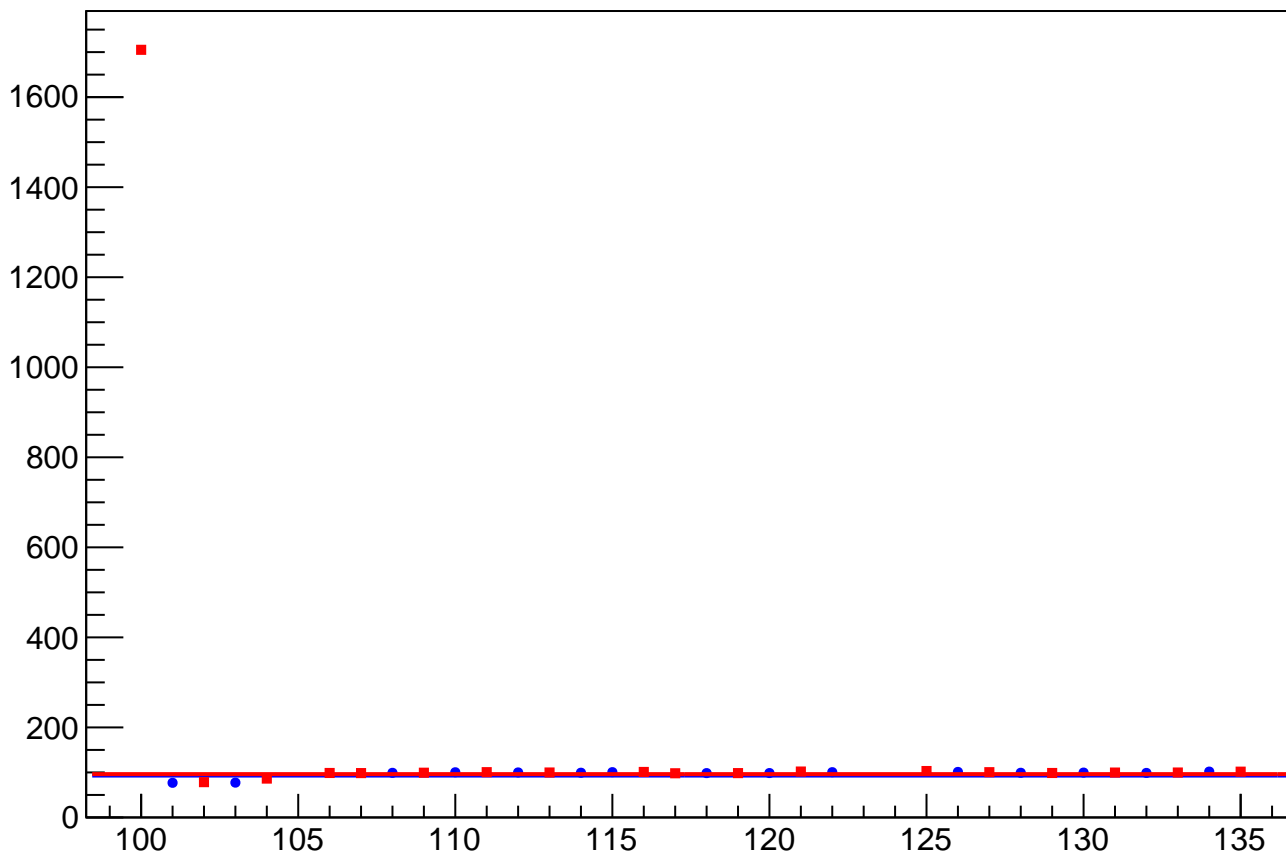
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$2.827 \pm 38.911$   $\chi^2/\text{NDF}: 16.1/14$

$-0.874 \pm 26.833$   $\chi^2/\text{NDF}: 28.9/32$

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

# asym\_dsl\_rms vs Slug, Sign Corrected



Right In: 93.084+/-0.028  $\chi^2$ /NDF: 140008.6/14

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

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

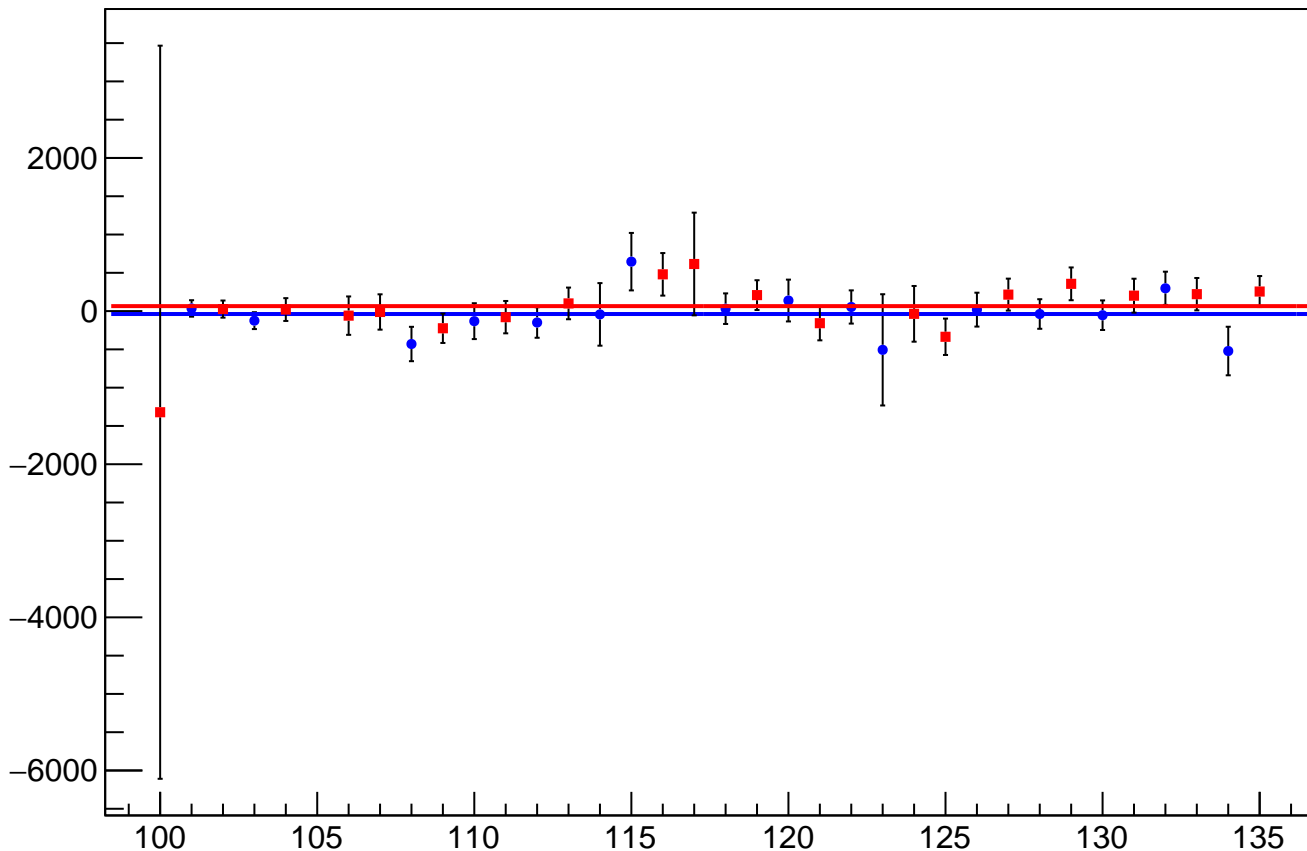
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

93.084+/-0.028  $\chi^2$ /NDF: 140008.6/14

94.744+/-0.019  $\chi^2$ /NDF: 360132.4/32

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

# reg\_asym\_dsr\_mean vs Slug, Sign Corrected



Right In:  $-38.186 \pm 49.239$   $\chi^2/\text{NDF}: 13.8/15$

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

Right Out:  $64.918 \pm 48.136$   $\chi^2/\text{NDF}: 15.0/18$

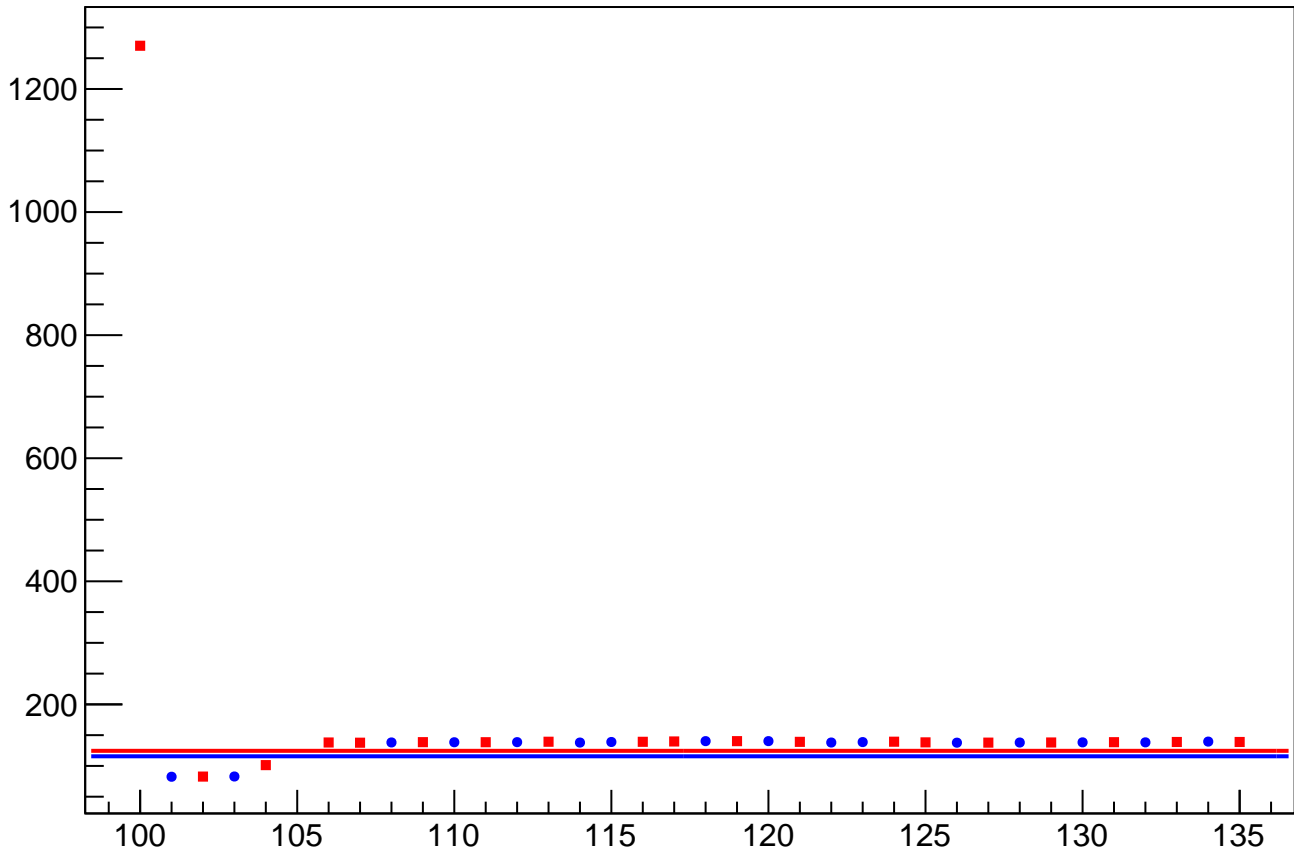
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-38.186 \pm 49.239$   $\chi^2/\text{NDF}: 13.8/15$

$14.534 \pm 34.420$   $\chi^2/\text{NDF}: 31.0/34$

$64.918 \pm 48.136$   $\chi^2/\text{NDF}: 15.0/18$

# reg\_asym\_dsr\_rms vs Slug, Sign Corrected



Right In: 115.637 $\pm$ 0.035  $\chi^2$ /NDF: 626447.5/15

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

Right Out: 124.544 $\pm$ 0.034  $\chi^2$ /NDF: 567447.4/18

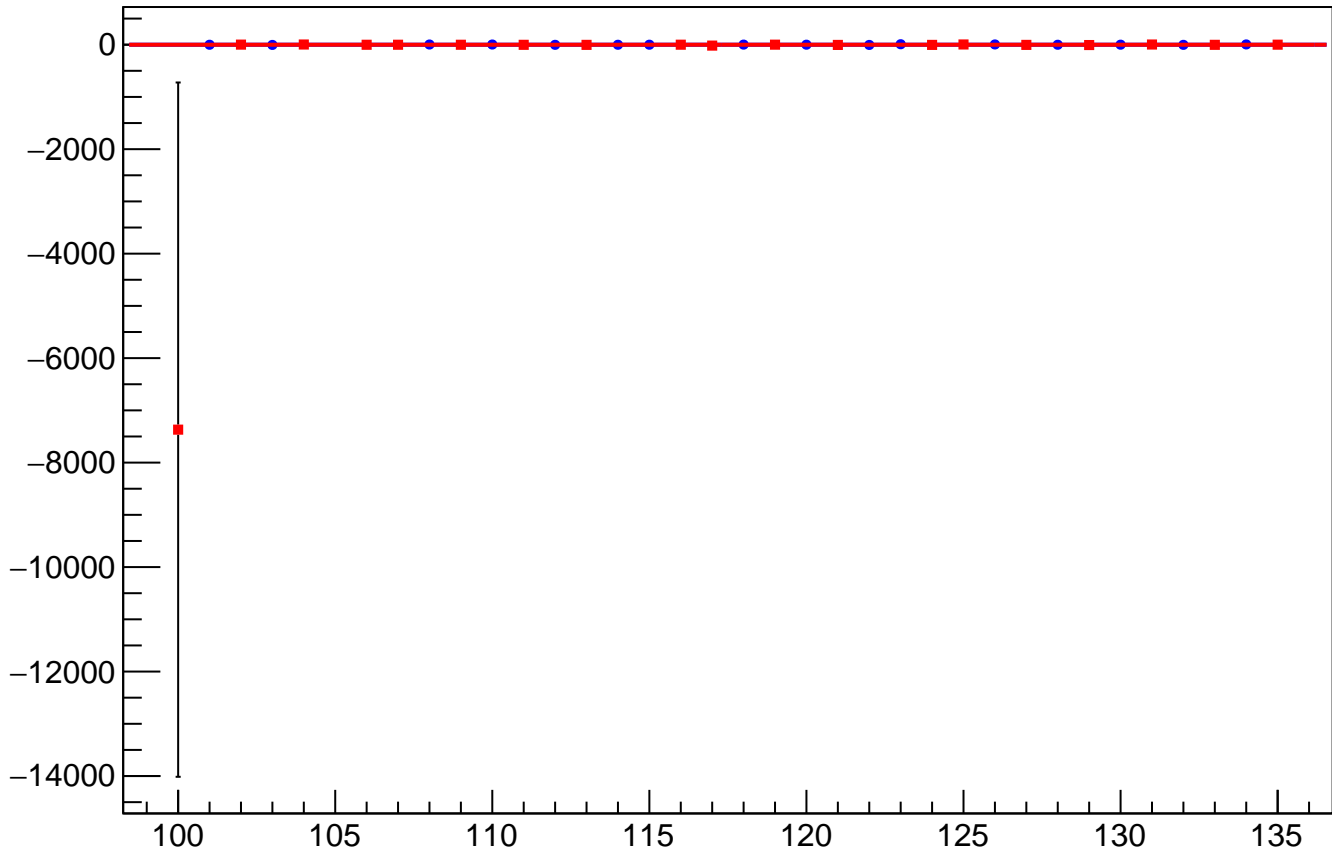
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

115.637 $\pm$ 0.035  $\chi^2$ /NDF: 626447.5/15

120.191 $\pm$ 0.024  $\chi^2$ /NDF: 1227359.4/34

124.544 $\pm$ 0.034  $\chi^2$ /NDF: 567447.4/18

# asym\_dsr\_correction\_mean vs Slug, Sign Corrected



Right In: -0.637+/-0.852  $\chi^2$ /NDF: 12.6/15

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

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

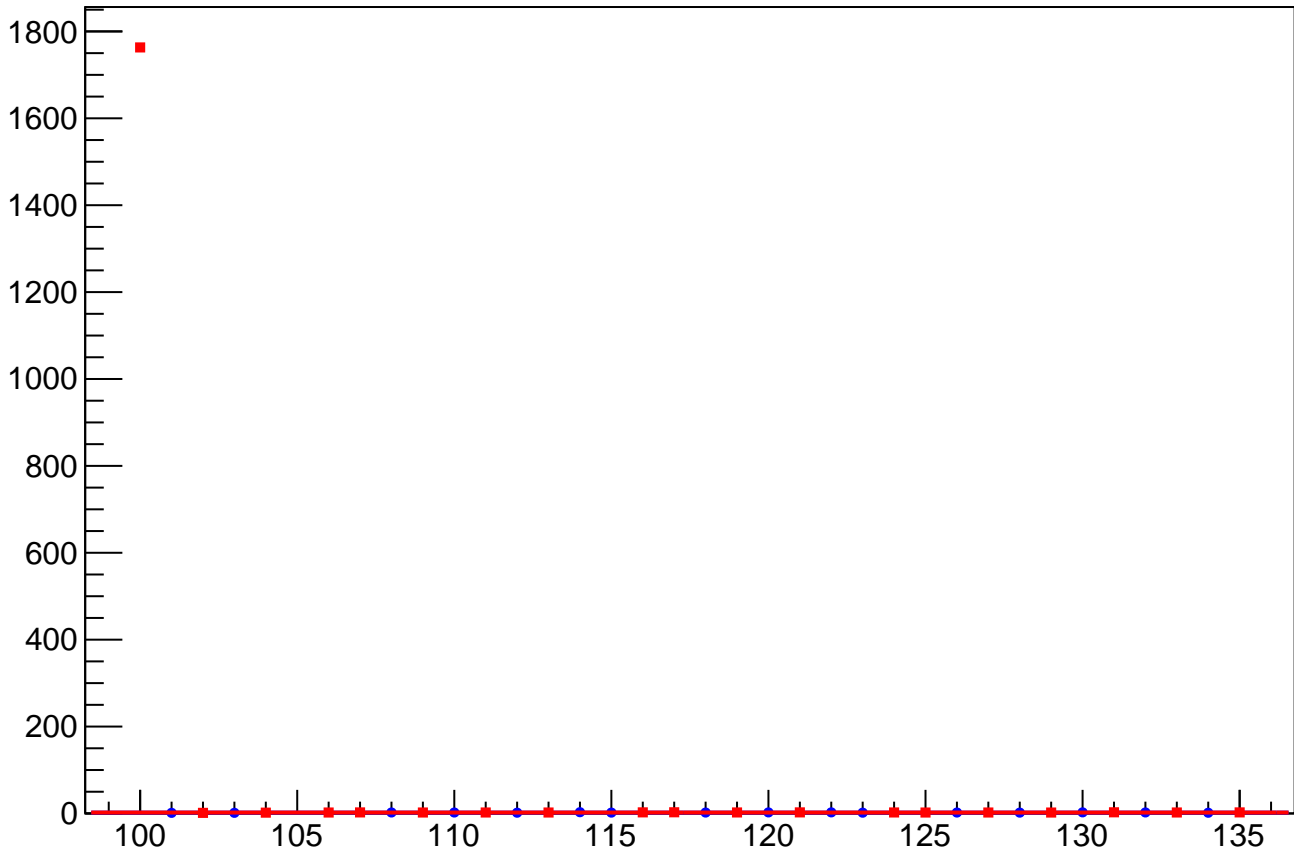
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.637+/-0.852  $\chi^2$ /NDF: 12.6/15

-0.600+/-0.606  $\chi^2$ /NDF: 26.8/34

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

# asym\_dsr\_correction\_rms vs Slug, Sign Corrected



Right In: 1.834+/-0.001  $\chi^2/\text{NDF}$ : 456663.2/15

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

Right Out: 2.071+/-0.001  $\chi^2/\text{NDF}$ : 529527.4/18

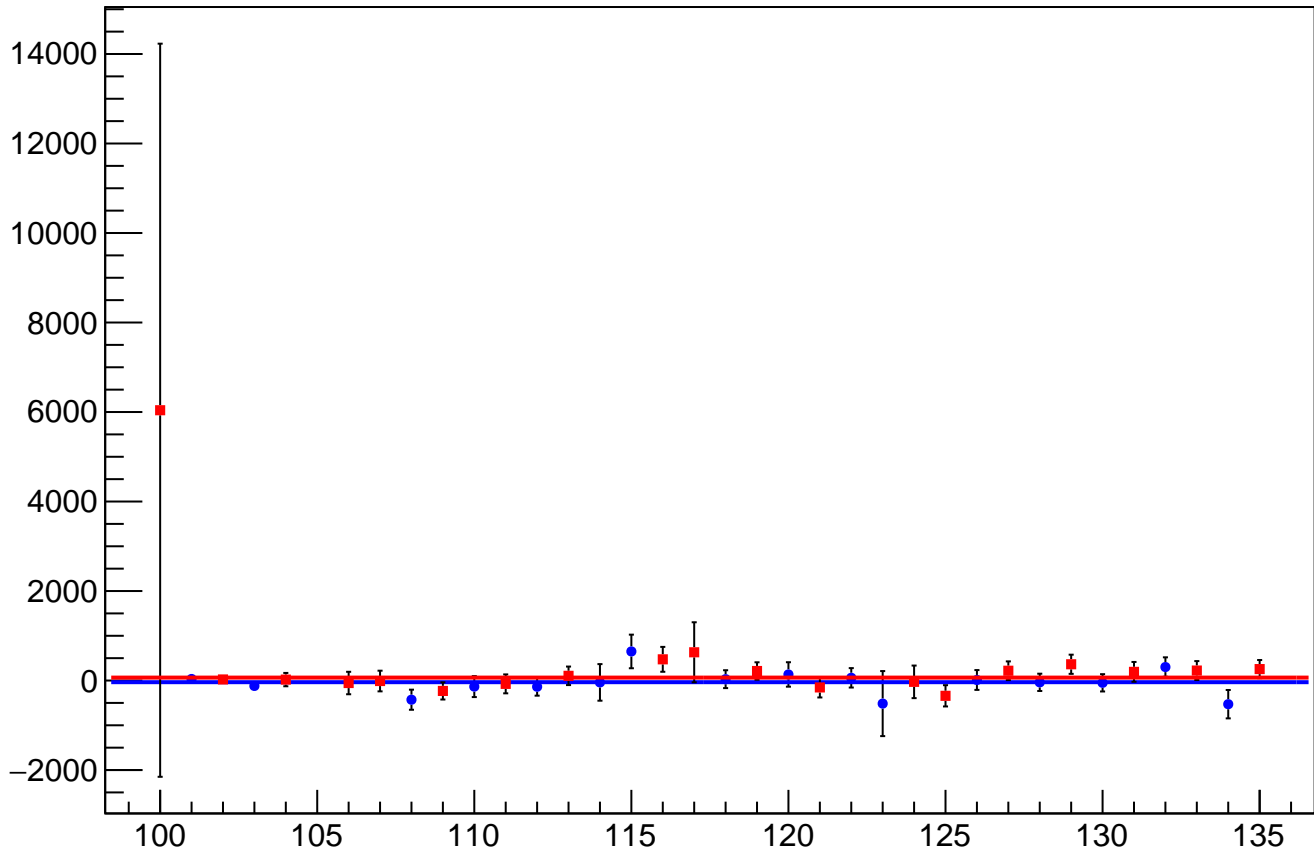
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.834+/-0.001  $\chi^2/\text{NDF}$ : 456663.2/15

1.951+/-0.000  $\chi^2/\text{NDF}$ : 1062757.5/34

2.071+/-0.001  $\chi^2/\text{NDF}$ : 529527.4/18

# asym\_dsr\_mean vs Slug, Sign Corrected



Right In:  $-36.814 \pm 49.252$   $\chi^2/\text{NDF}: 13.9/15$

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

Right Out:  $65.742 \pm 48.150$   $\chi^2/\text{NDF}: 15.6/18$

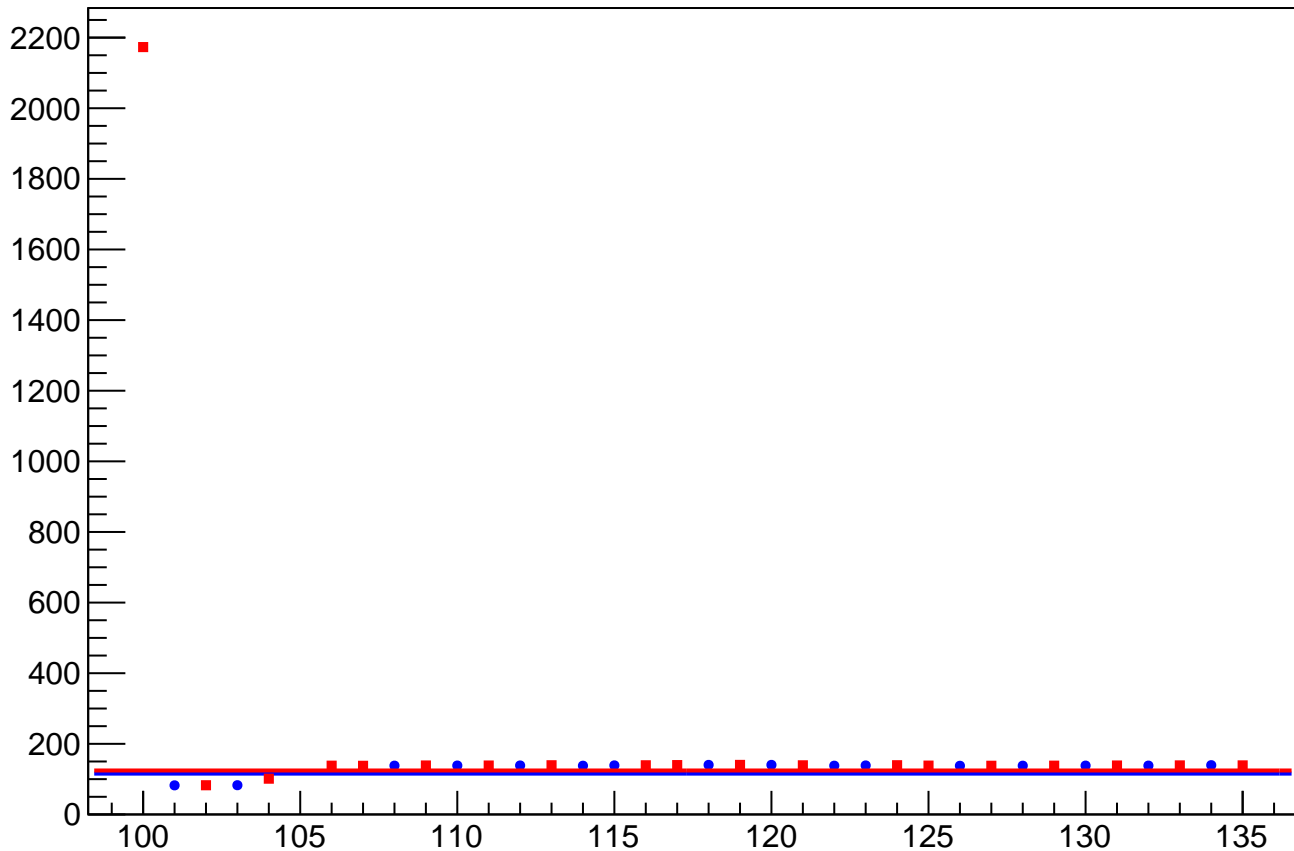
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-36.814 \pm 49.252$   $\chi^2/\text{NDF}: 13.9/15$

$15.624 \pm 34.430$   $\chi^2/\text{NDF}: 31.8/34$

$65.742 \pm 48.150$   $\chi^2/\text{NDF}: 15.6/18$

# asym\_dsr\_rms vs Slug, Sign Corrected



Right In: 115.668+/-0.035  $\chi^2$ /NDF: 626489.4/15

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

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

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

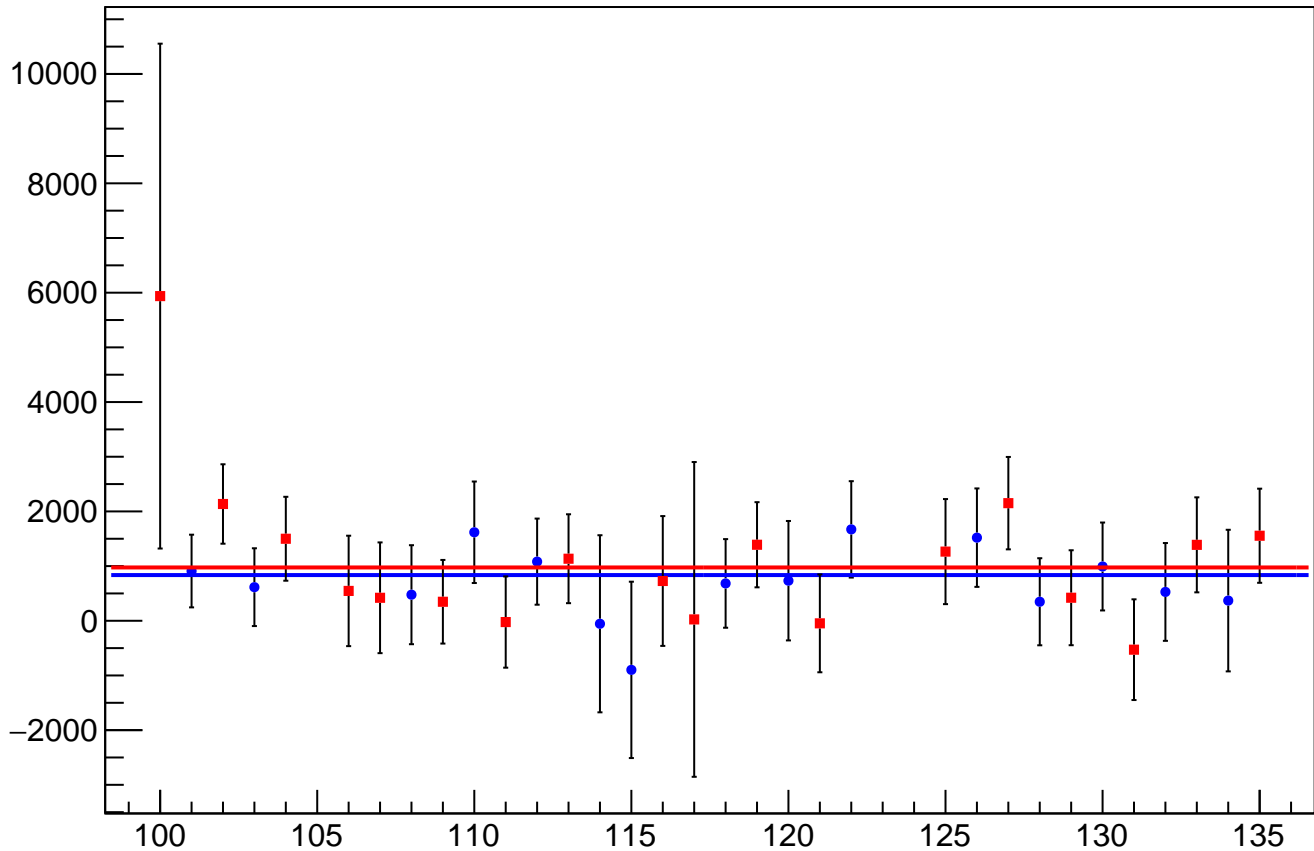
115.668+/-0.035  $\chi^2$ /NDF: 626489.4/15

120.200+/-0.024  $\chi^2$ /NDF: 1237623.2/34

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



# reg\_asym\_left\_avg\_mean vs Slug, Sign Corrected



Right In: 835.879+/-230.298  $\chi^2$ /NDF: 4.7/14

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

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

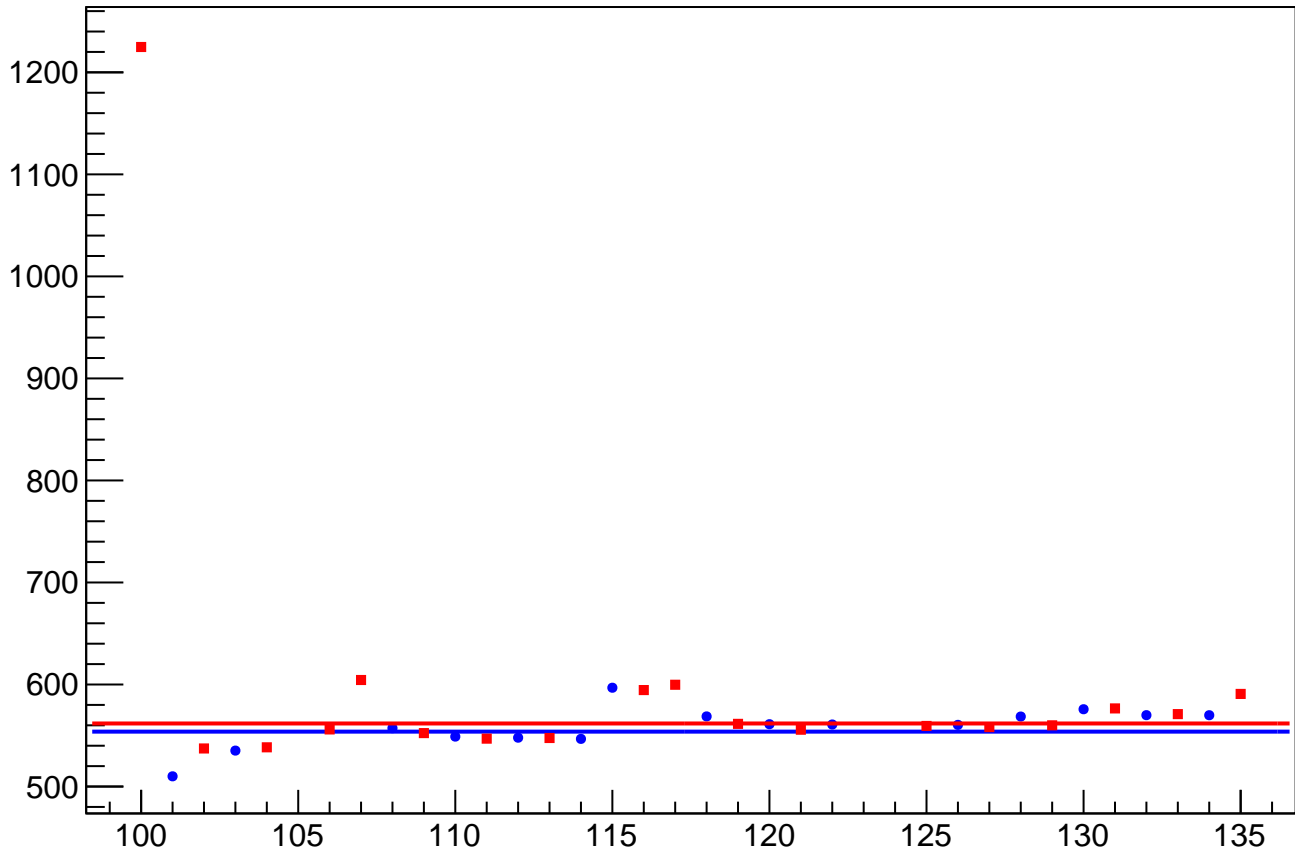
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

835.879+/-230.298  $\chi^2$ /NDF: 4.7/14

910.296+/-157.123  $\chi^2$ /NDF: 19.2/32

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

# reg\_asym\_left\_avg\_rms vs Slug, Sign Corrected



Right In: 553.809+/-0.163  $\chi^2/\text{NDF}$ : 15853.2/14

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

Right Out: 561.804+/-0.152  $\chi^2/\text{NDF}$ : 55571.9/17

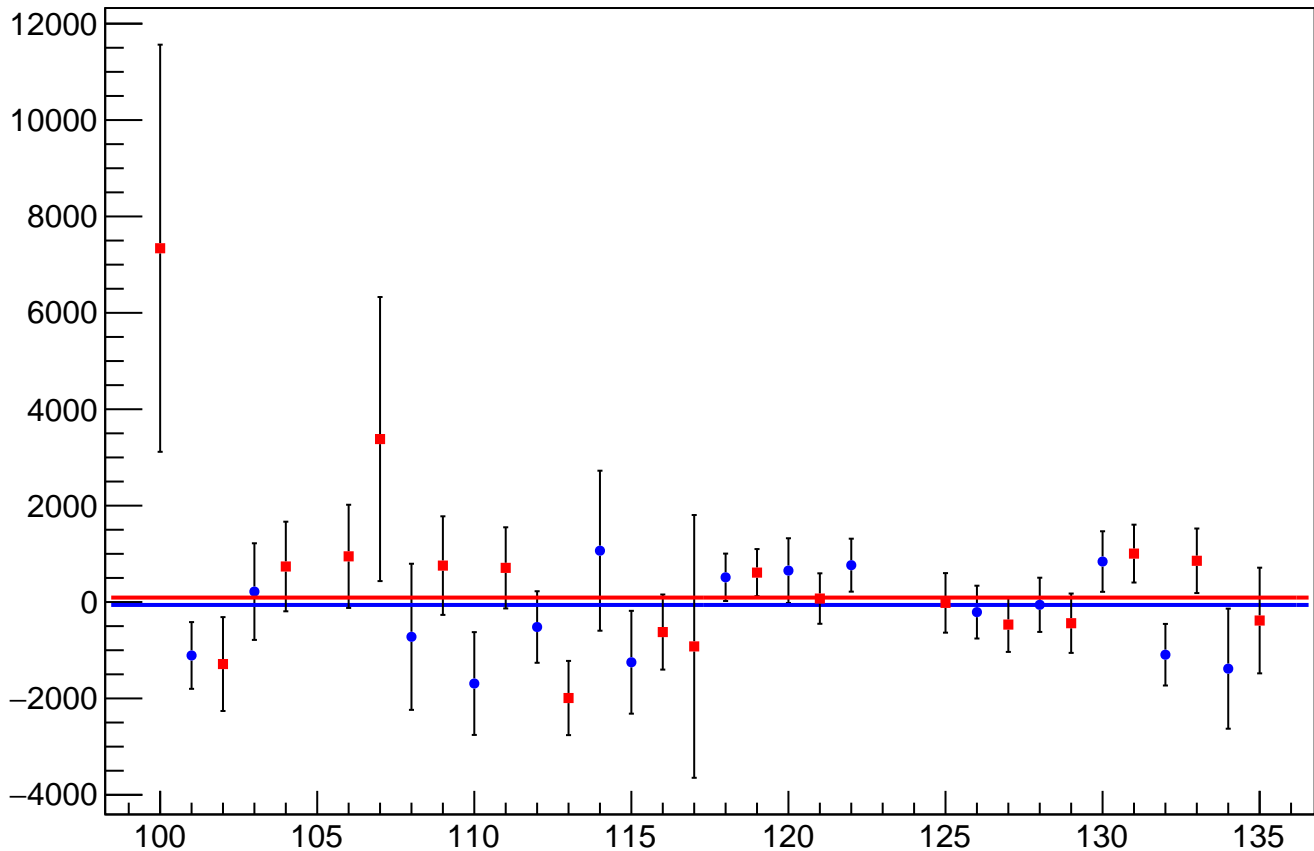
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

553.809+/-0.163  $\chi^2/\text{NDF}$ : 15853.2/14

558.082+/-0.111  $\chi^2/\text{NDF}$ : 72713.4/32

561.804+/-0.152  $\chi^2/\text{NDF}$ : 55571.9/17

# asym\_left\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-60.394 \pm 184.936$   $\chi^2/\text{NDF}: 17.6/14$

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

Right Out:  $92.525 \pm 179.210$   $\chi^2/\text{NDF}: 23.3/17$

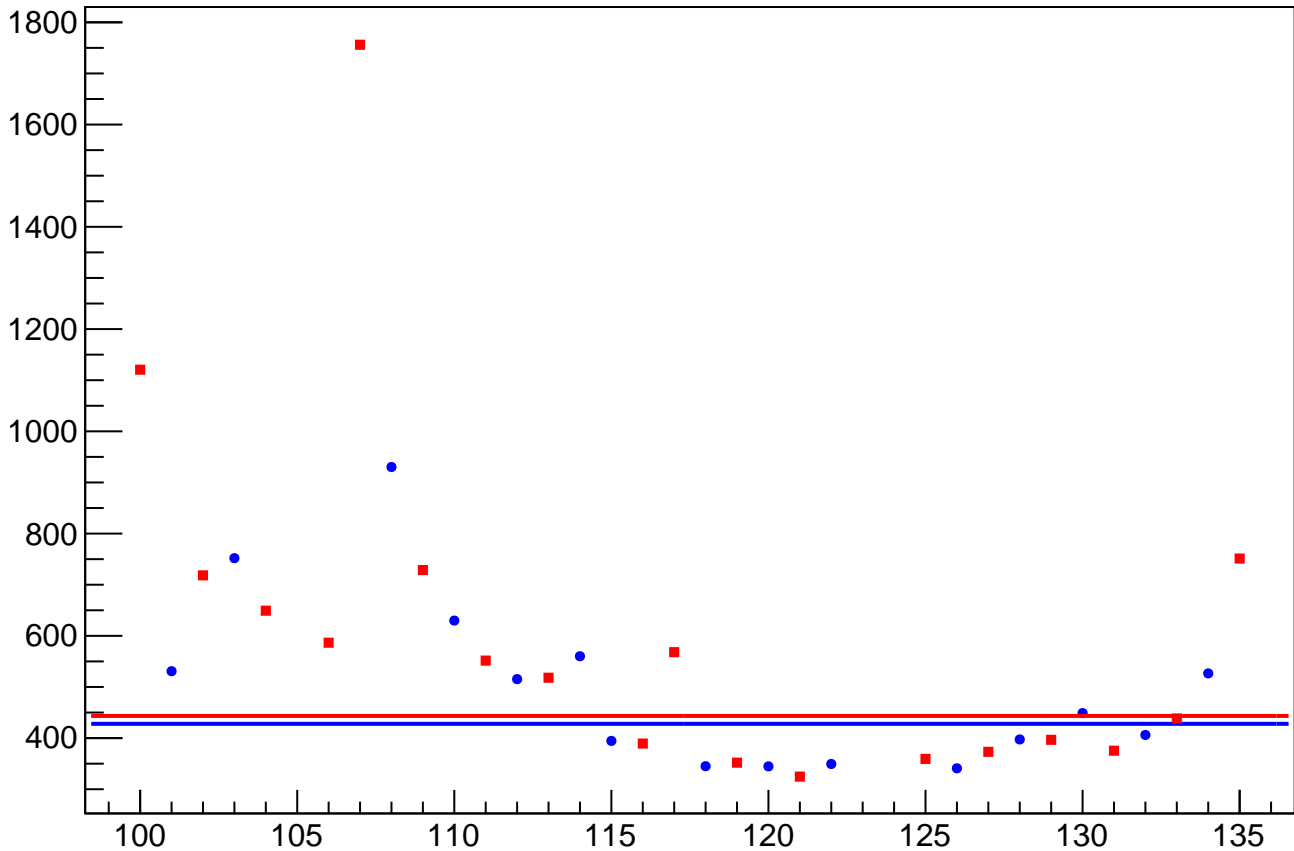
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-60.394 \pm 184.936$   $\chi^2/\text{NDF}: 17.6/14$

$18.469 \pm 128.697$   $\chi^2/\text{NDF}: 41.2/32$

$92.525 \pm 179.210$   $\chi^2/\text{NDF}: 23.3/17$

# asym\_left\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 427.918+/-0.131  $\chi^2/\text{NDF}$ : 788794.5/14

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

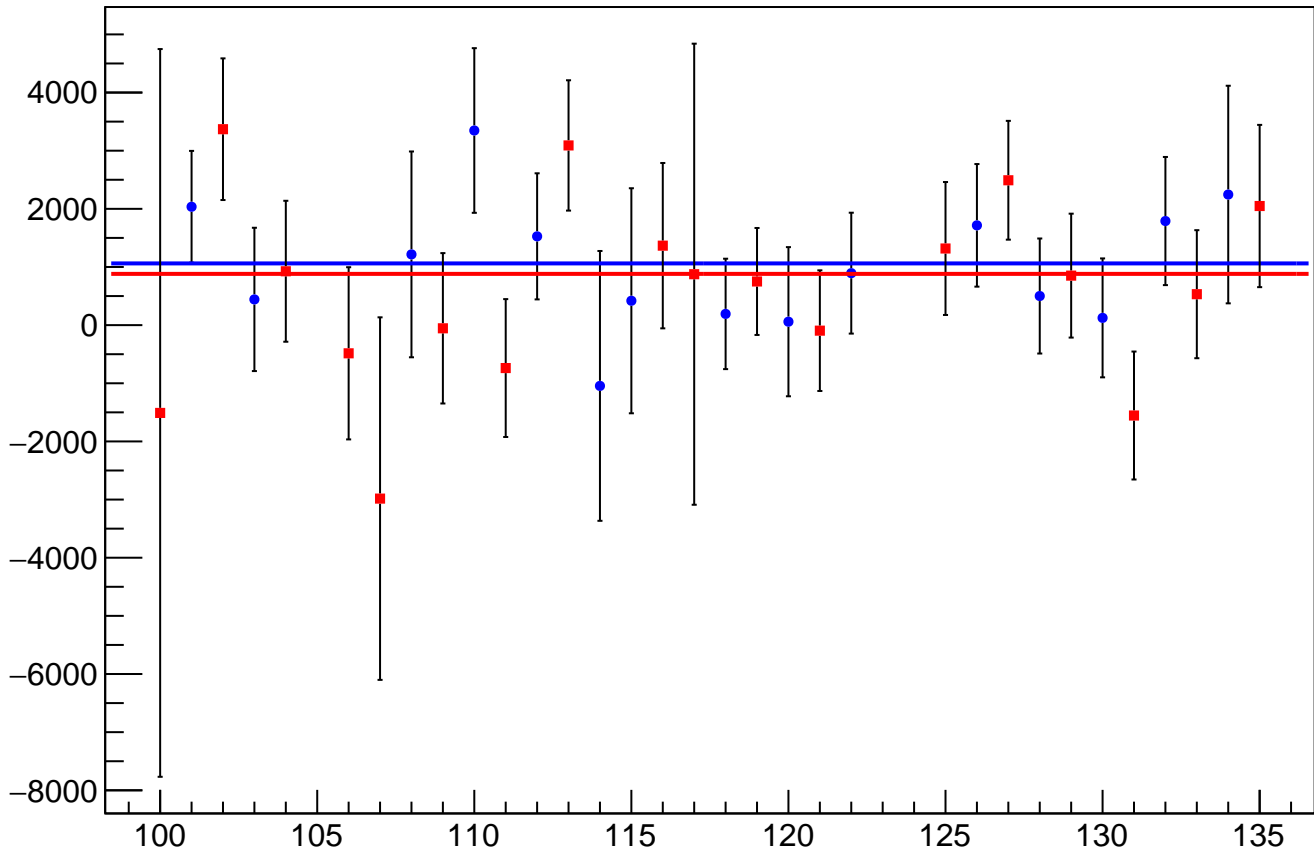
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

427.918+/-0.131  $\chi^2/\text{NDF}$ : 788794.5/14

435.888+/-0.091  $\chi^2/\text{NDF}$ : 2194419.0/32

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

# asym\_left\_avg\_mean vs Slug, Sign Corrected



Right In: 1061.474+/-308.713  $\chi^2$ /NDF: 8.9/14

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

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

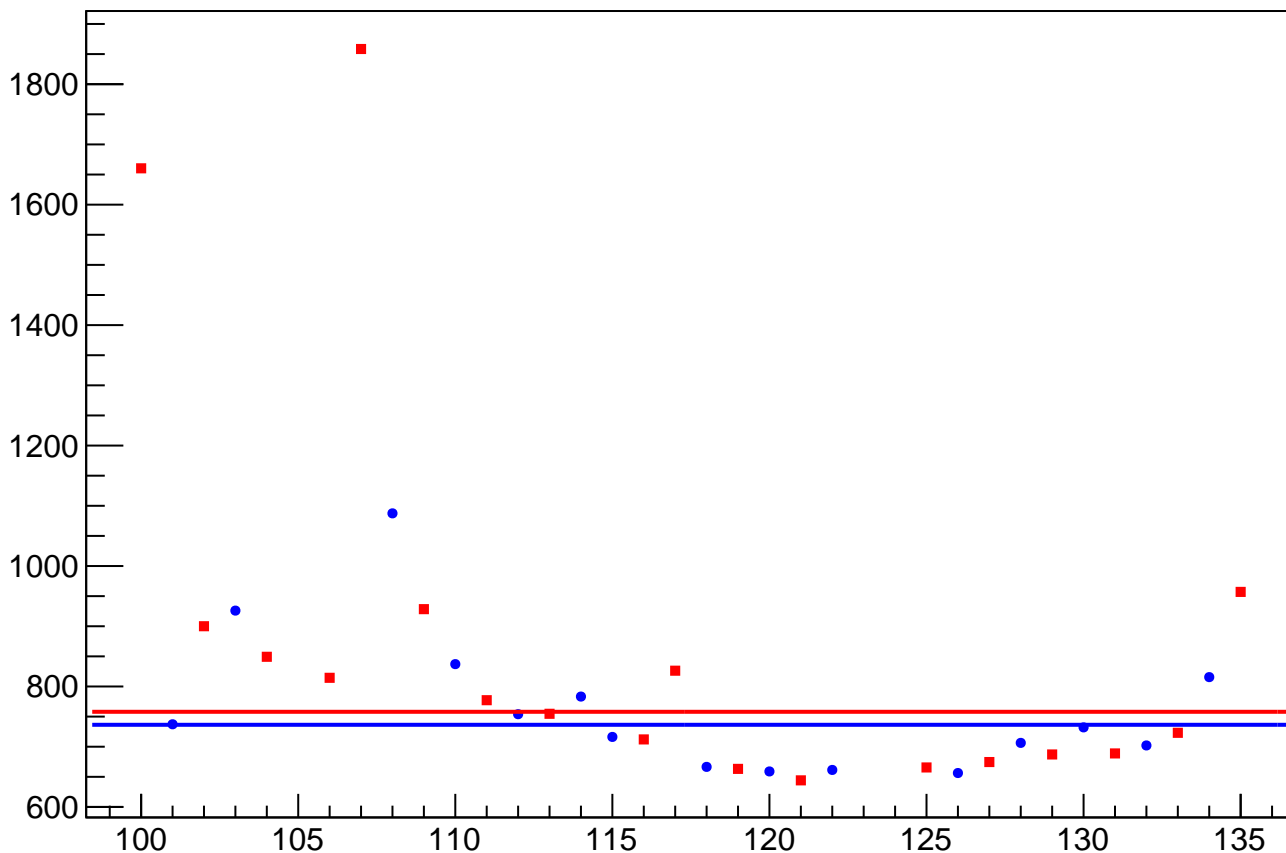
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1061.474+/-308.713  $\chi^2$ /NDF: 8.9/14

967.392+/-213.319  $\chi^2$ /NDF: 31.4/32

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

# asym\_left\_avg\_rms vs Slug, Sign Corrected



Right In: 736.387+/-0.218  $\chi^2$ /NDF: 185185.4/14

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

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

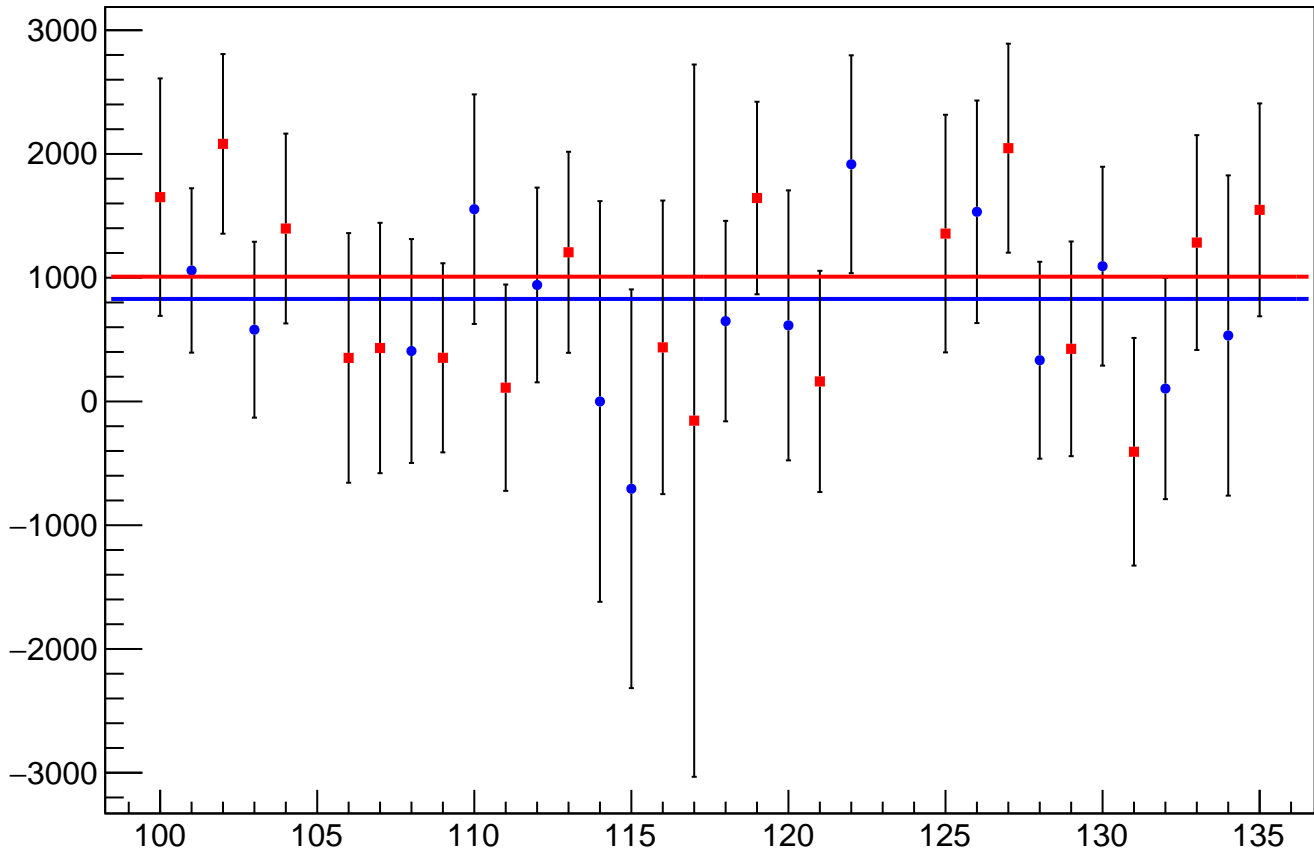
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

736.387+/-0.218  $\chi^2$ /NDF: 185185.4/14

747.670+/-0.151  $\chi^2$ /NDF: 691673.1/32

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

# reg\_asym\_left\_dd\_mean vs Slug, Sign Corrected



Right In: 828.529+/-230.122  $\chi^2/\text{NDF}$ : 5.7/14

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

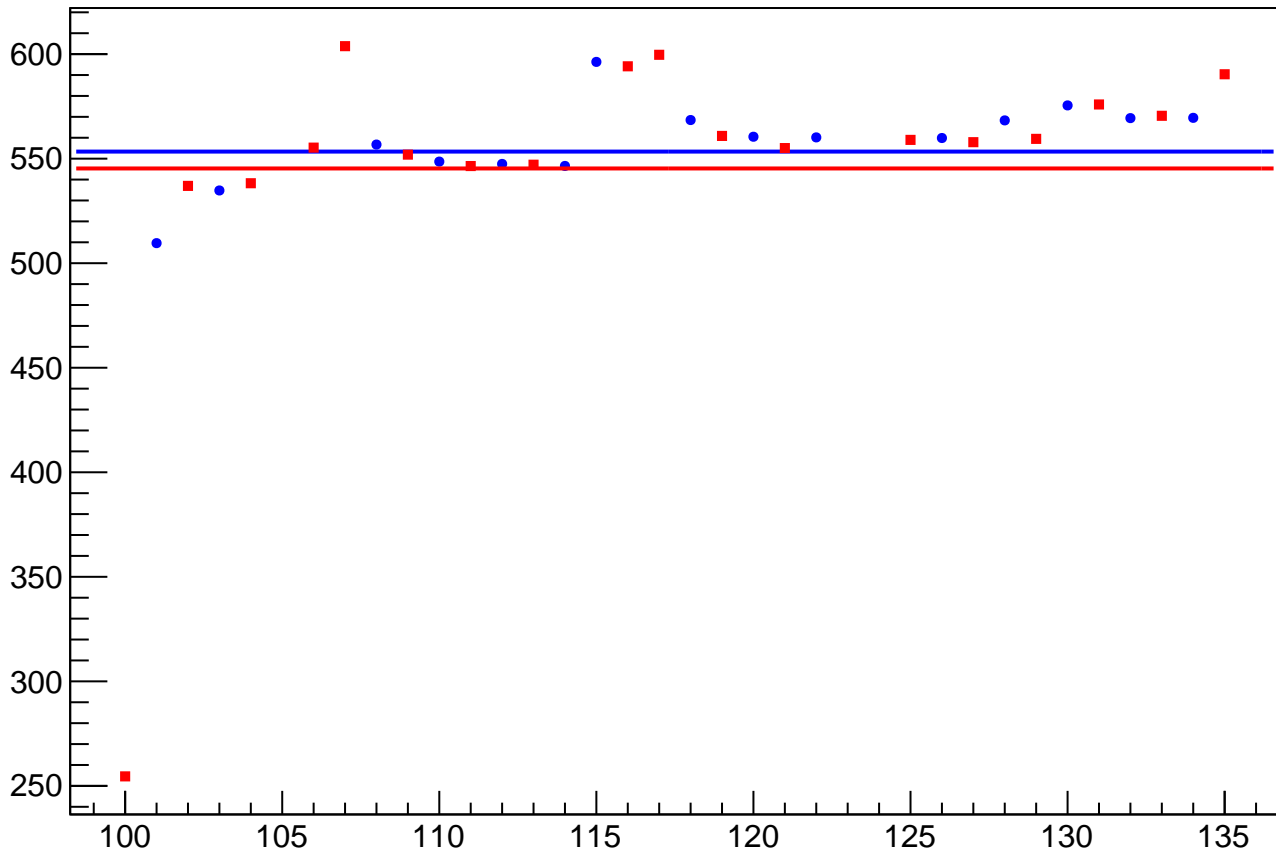
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

828.529+/-230.122  $\chi^2/\text{NDF}$ : 5.7/14

926.765+/-155.025  $\chi^2/\text{NDF}$ : 18.5/32

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

# reg\_asym\_left\_dd\_rms vs Slug, Sign Corrected



Right In: 553.386+/-0.163  $\chi^2$ /NDF: 15881.9/14

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

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

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

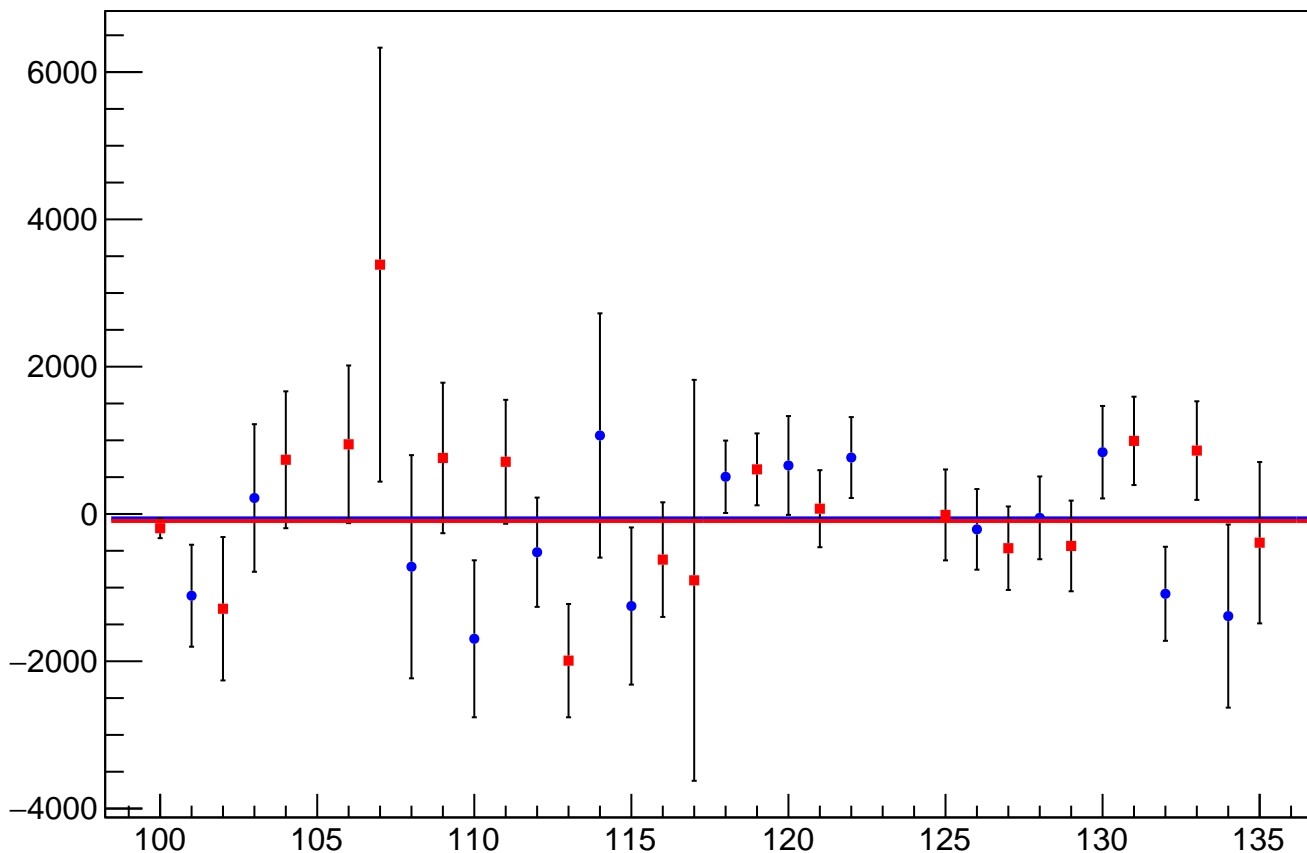
553.386+/-0.163  $\chi^2$ /NDF: 15881.9/14

548.975+/-0.110  $\chi^2$ /NDF: 224322.1/32

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



# asym\_left\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -60.174+/-184.846  $\chi^2/\text{NDF}$ : 17.6/14

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

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

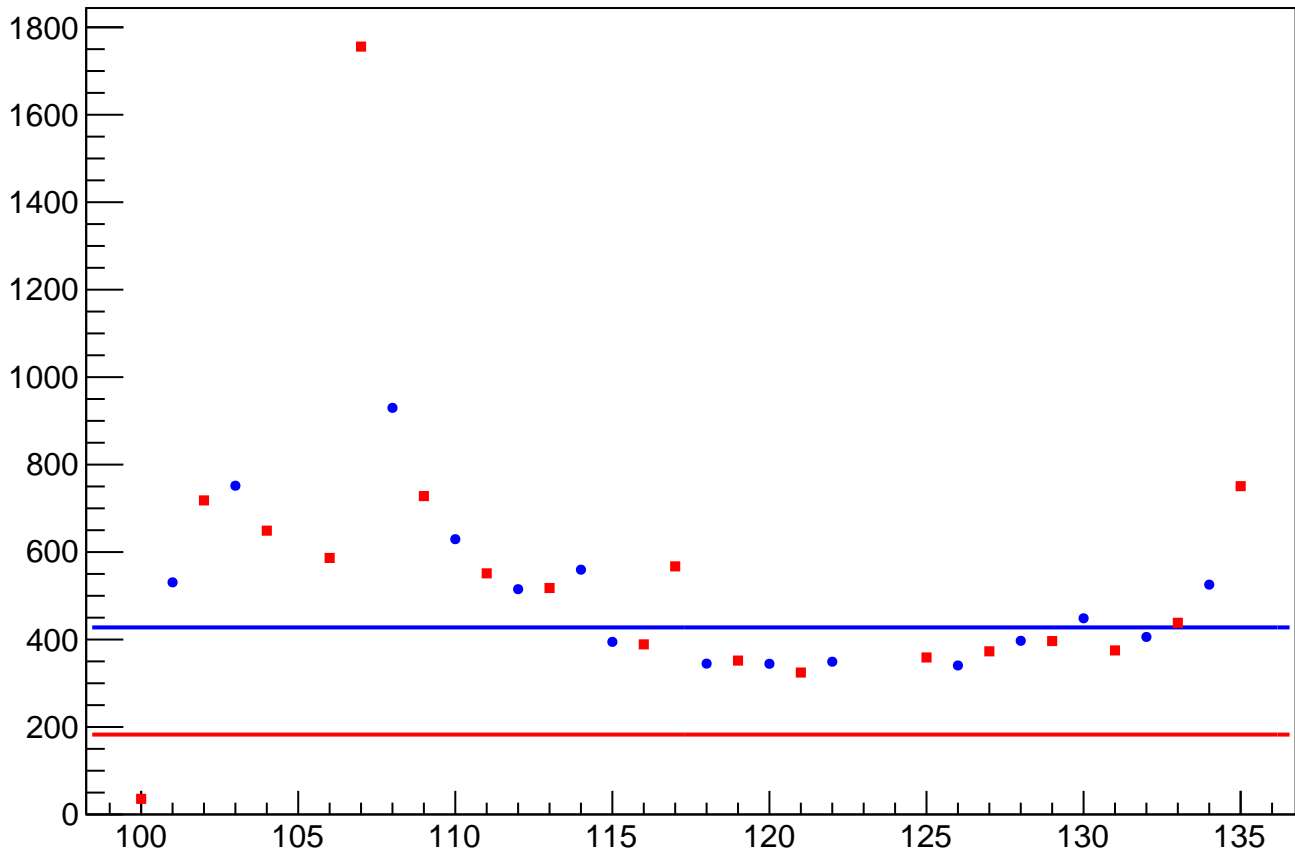
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-60.174+/-184.846  $\chi^2/\text{NDF}$ : 17.6/14

-86.085+/-93.138  $\chi^2/\text{NDF}$ : 39.3/32

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

# asym\_left\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 427.715+/-0.131  $\chi^2/\text{NDF}$ : 788627.2/14

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

Right Out: 182.633+/-0.076  $\chi^2/\text{NDF}$ : 7901589.6/17

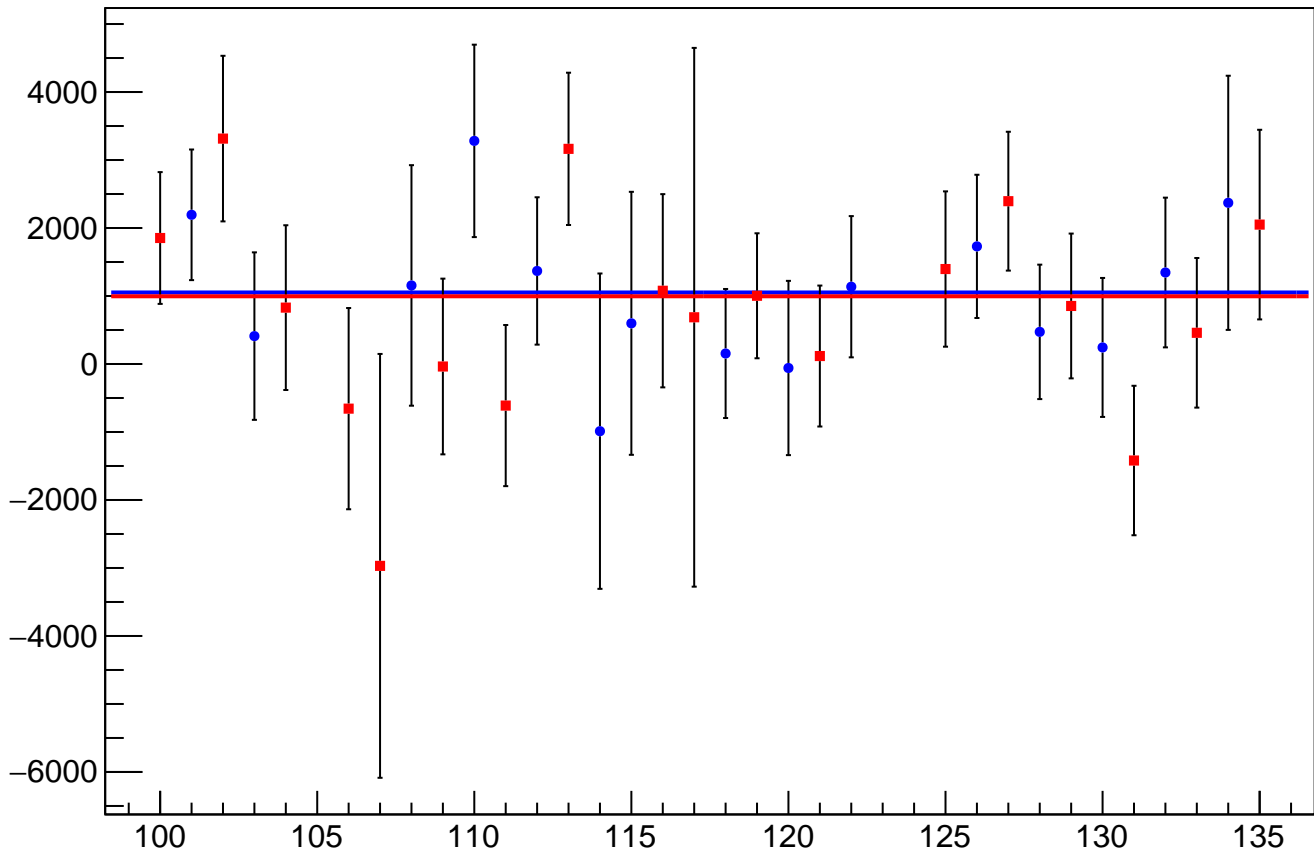
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

427.715+/-0.131  $\chi^2/\text{NDF}$ : 788627.2/14

244.855+/-0.066  $\chi^2/\text{NDF}$ : 11313466.2/32

182.633+/-0.076  $\chi^2/\text{NDF}$ : 7901589.6/17

# asym\_left\_dd\_mean vs Slug, Sign Corrected



Right In: 1051.839 $\pm$ 308.506  $\chi^2$ /NDF: 8.7/14

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

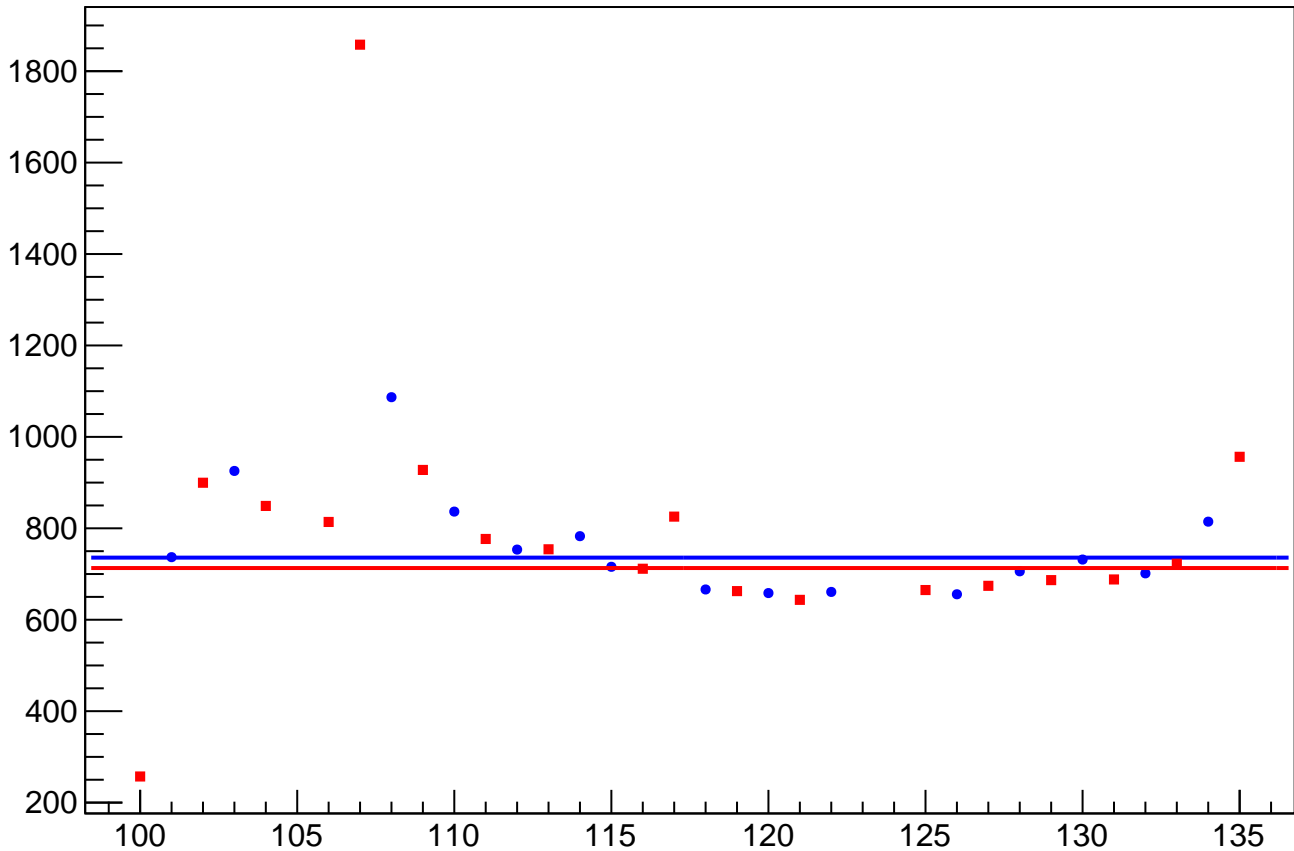
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

1051.839 $\pm$ 308.506  $\chi^2$ /NDF: 8.7/14

1021.338 $\pm$ 208.309  $\chi^2$ /NDF: 30.6/32

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

# asym\_left\_dd\_rms vs Slug, Sign Corrected



Right In: 735.885 $\pm$ 0.218  $\chi^2$ /NDF: 185327.7/14

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

Right Out: 713.105 $\pm$ 0.200  $\chi^2$ /NDF: 944054.3/17

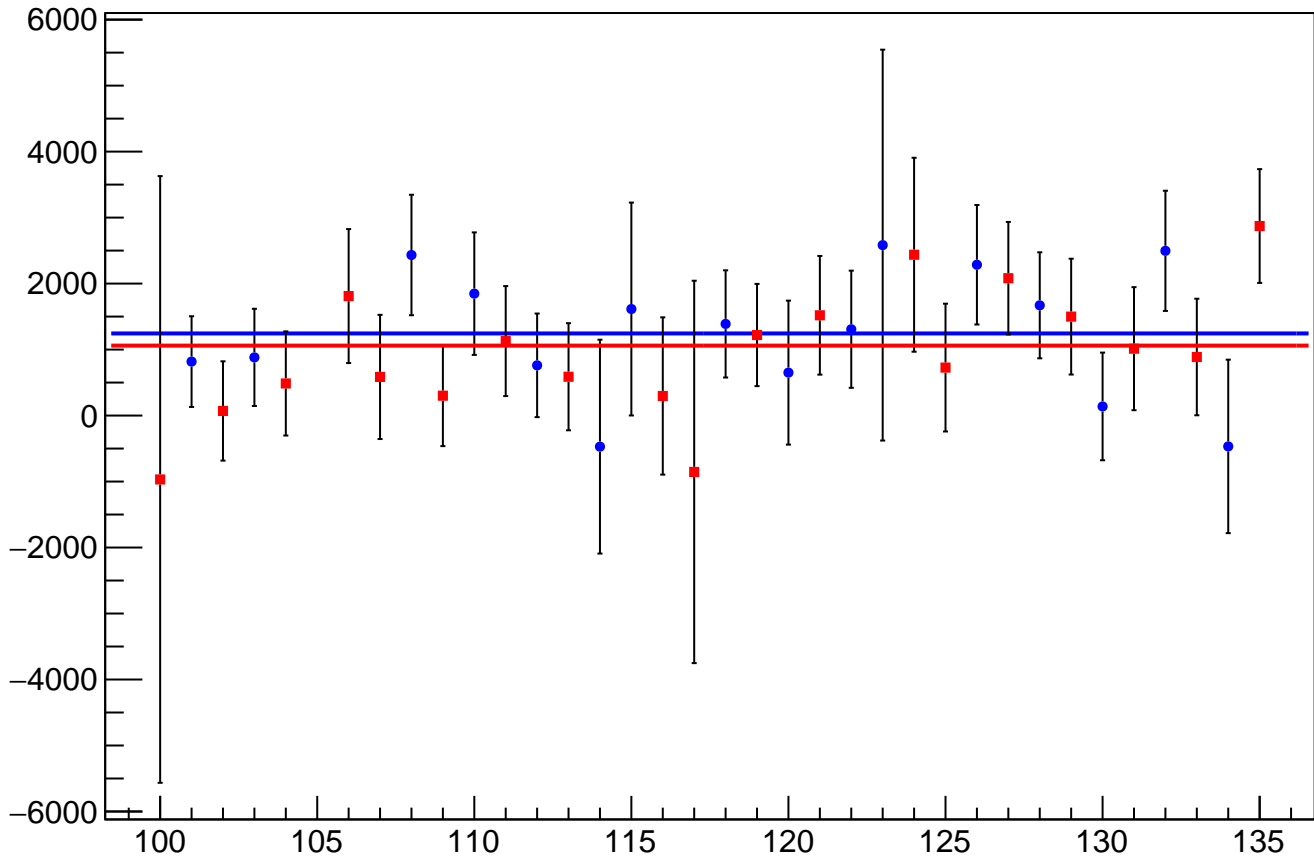
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

735.885 $\pm$ 0.218  $\chi^2$ /NDF: 185327.7/14

723.491 $\pm$ 0.147  $\chi^2$ /NDF: 1135315.3/32

713.105 $\pm$ 0.200  $\chi^2$ /NDF: 944054.3/17

# reg\_asym\_right\_avg\_mean vs Slug, Sign Corrected



Right In: 1244.390+/-232.470  $\chi^2$ /NDF: 11.9/15

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

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

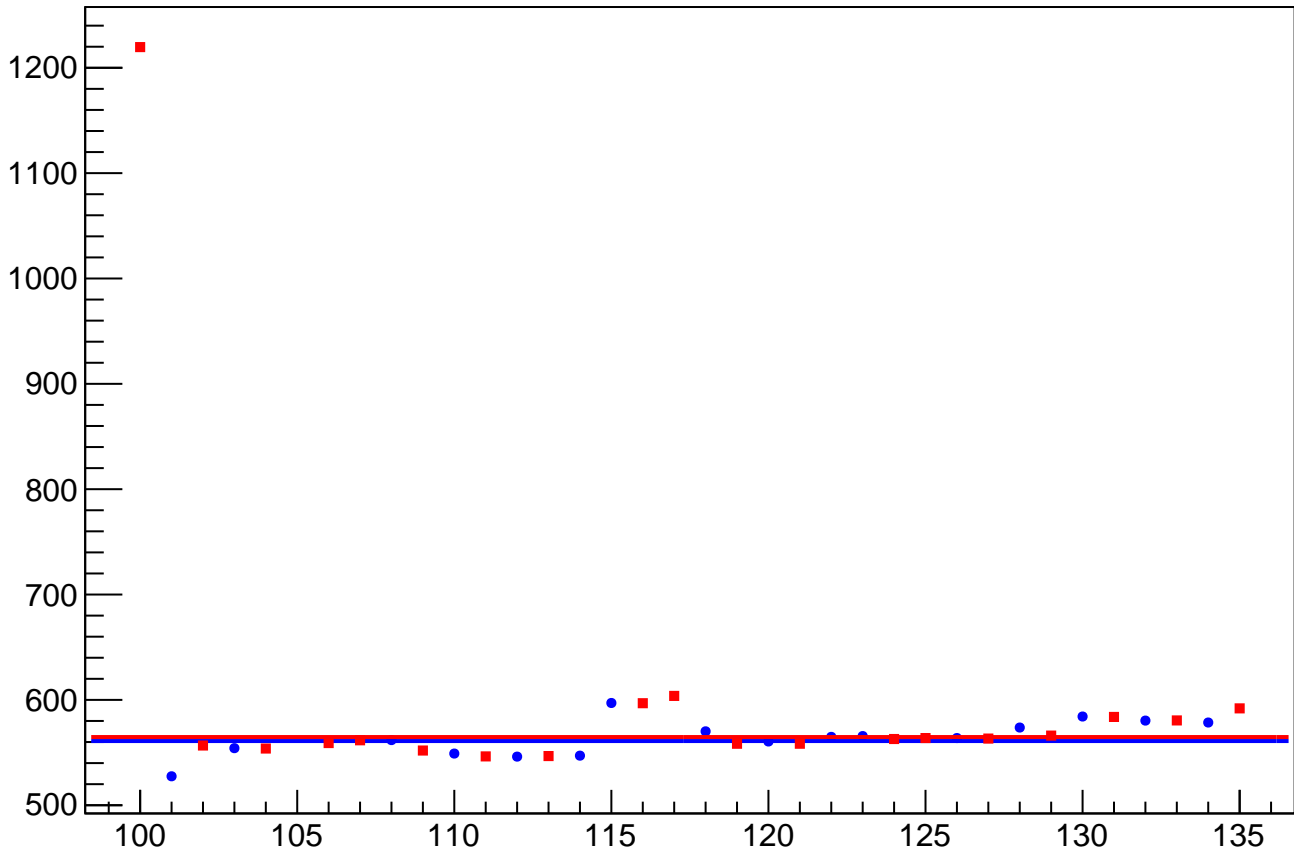
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1244.390+/-232.470  $\chi^2$ /NDF: 11.9/15

1144.456+/-157.327  $\chi^2$ /NDF: 25.1/34

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

# reg\_asym\_right\_avg\_rms vs Slug, Sign Corrected



Right In: 560.921+/-0.164  $\chi^2$ /NDF: 10821.5/15

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

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

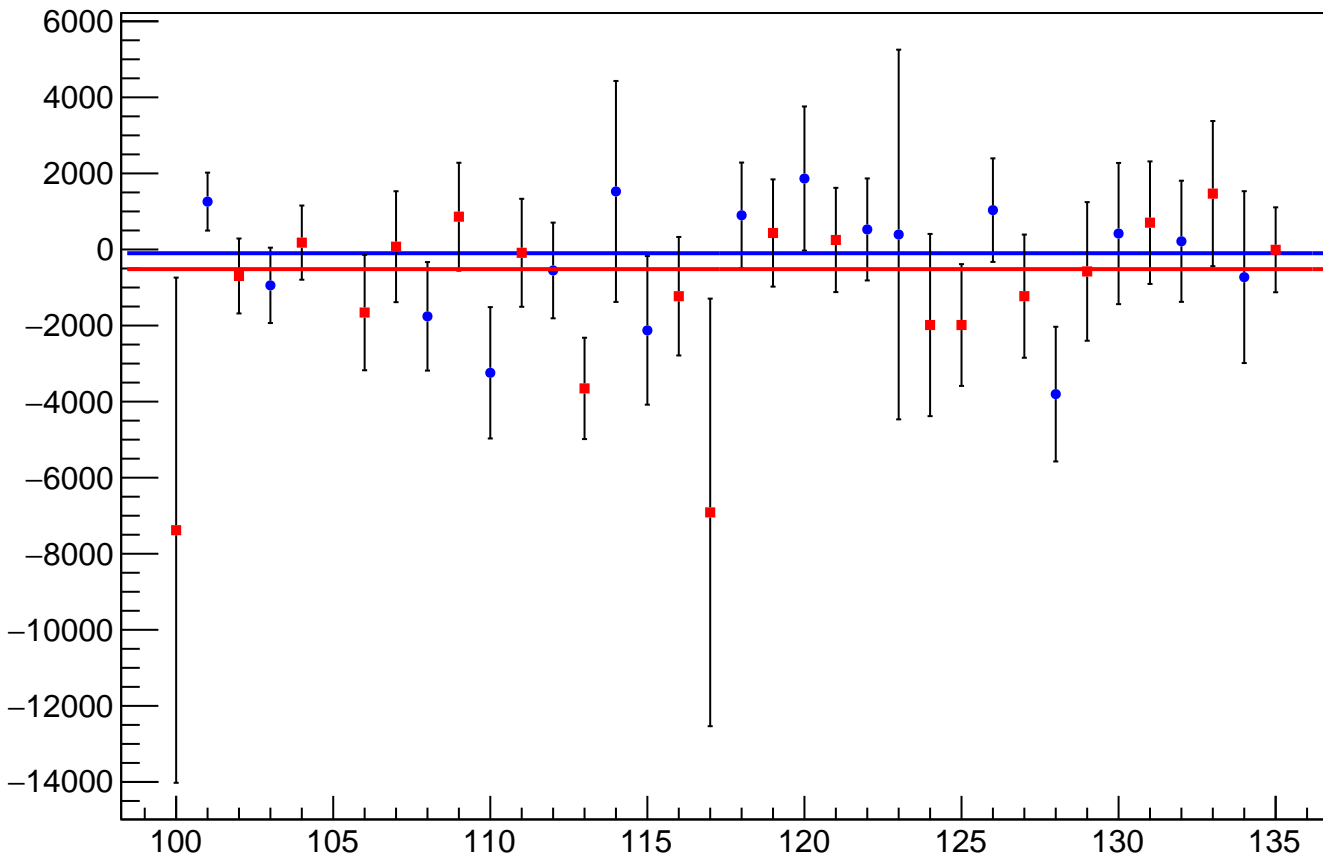
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

560.921+/-0.164  $\chi^2$ /NDF: 10821.5/15

562.986+/-0.111  $\chi^2$ /NDF: 60458.6/34

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

# asym\_right\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-98.470 \pm 359.988$   $\chi^2/\text{NDF}: 17.2/15$

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

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

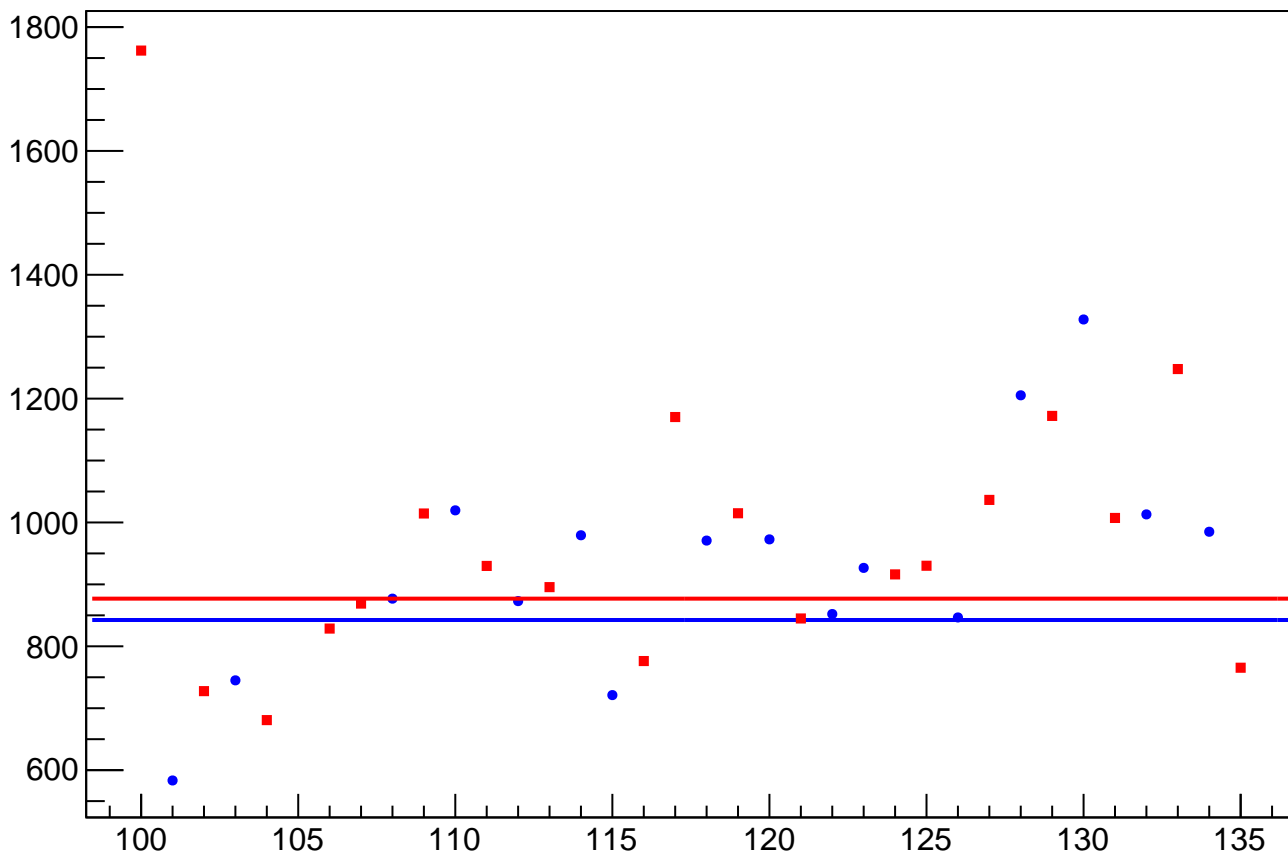
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-98.470 \pm 359.988$   $\chi^2/\text{NDF}: 17.2/15$

$-320.629 \pm 246.398$   $\chi^2/\text{NDF}: 32.4/34$

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

# asym\_right\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 842.477+/-0.255  $\chi^2$ /NDF: 565222.4/15

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

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

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

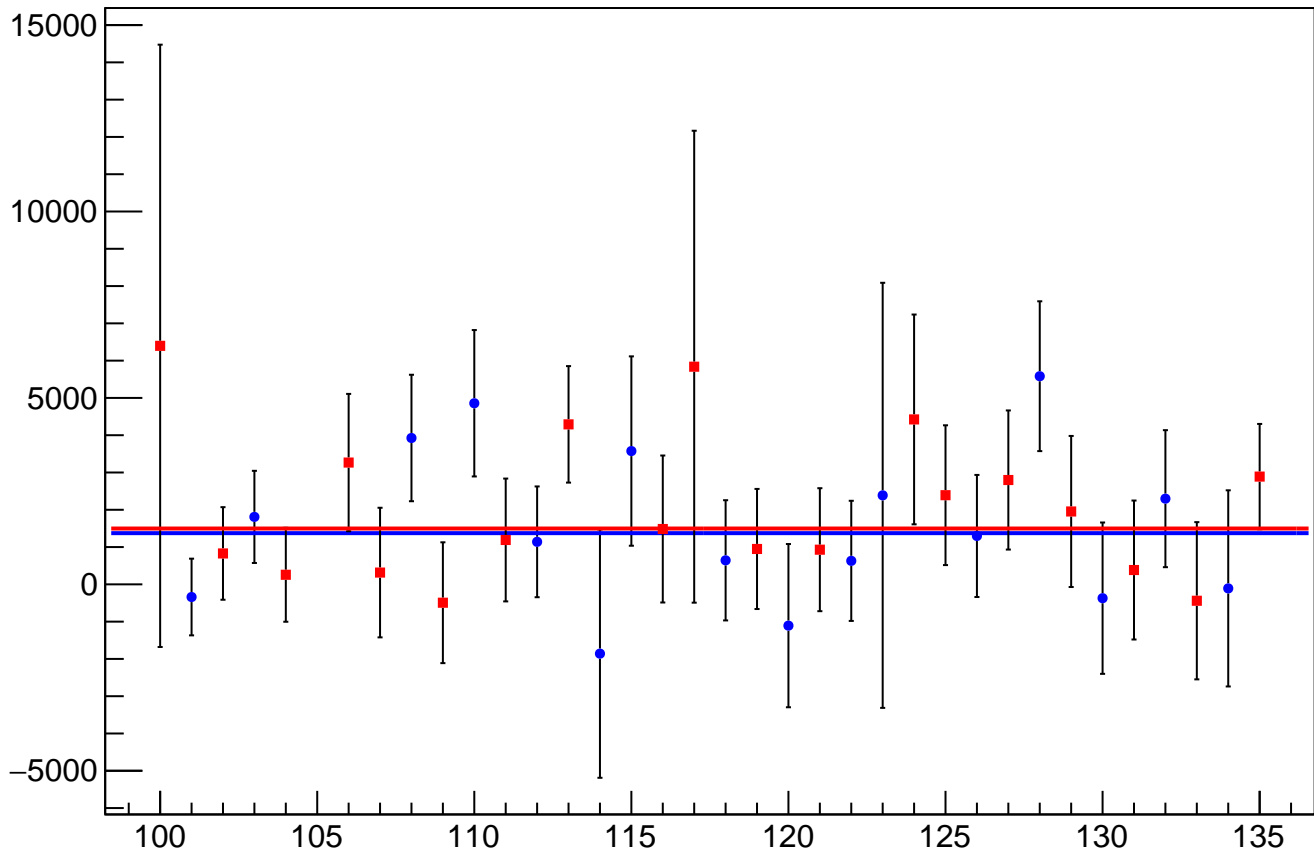
842.477+/-0.255  $\chi^2$ /NDF: 565222.4/15

860.814+/-0.174  $\chi^2$ /NDF: 978667.6/34

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



# asym\_right\_avg\_mean vs Slug, Sign Corrected



Right In: 1373.177+/-437.720  $\chi^2$ /NDF: 17.5/15

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

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

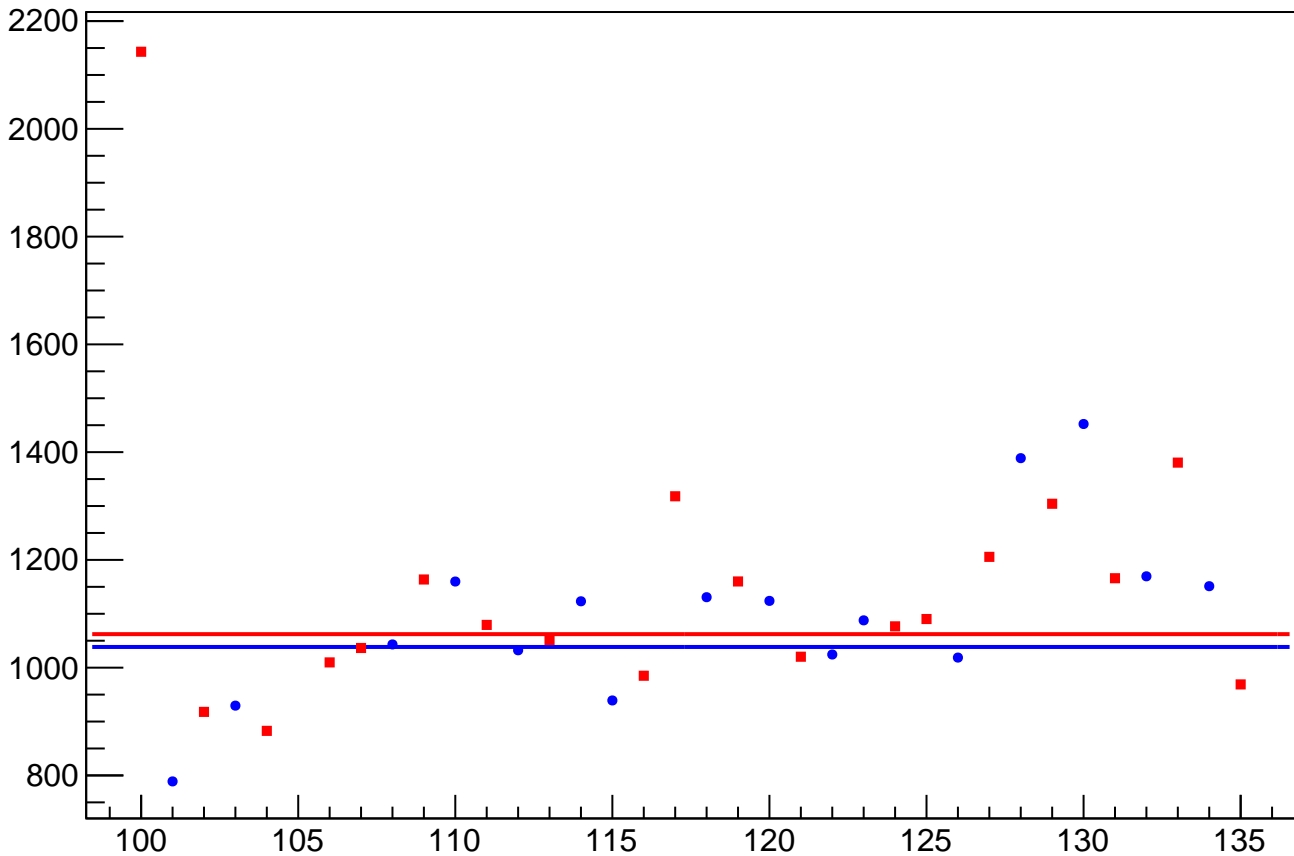
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1373.177+/-437.720  $\chi^2$ /NDF: 17.5/15

1439.958+/-297.616  $\chi^2$ /NDF: 30.0/34

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

# asym\_right\_avg\_rms vs Slug, Sign Corrected



Right In: 1038.420+/-0.310  $\chi^2$ /NDF: 313337.3/15

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

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

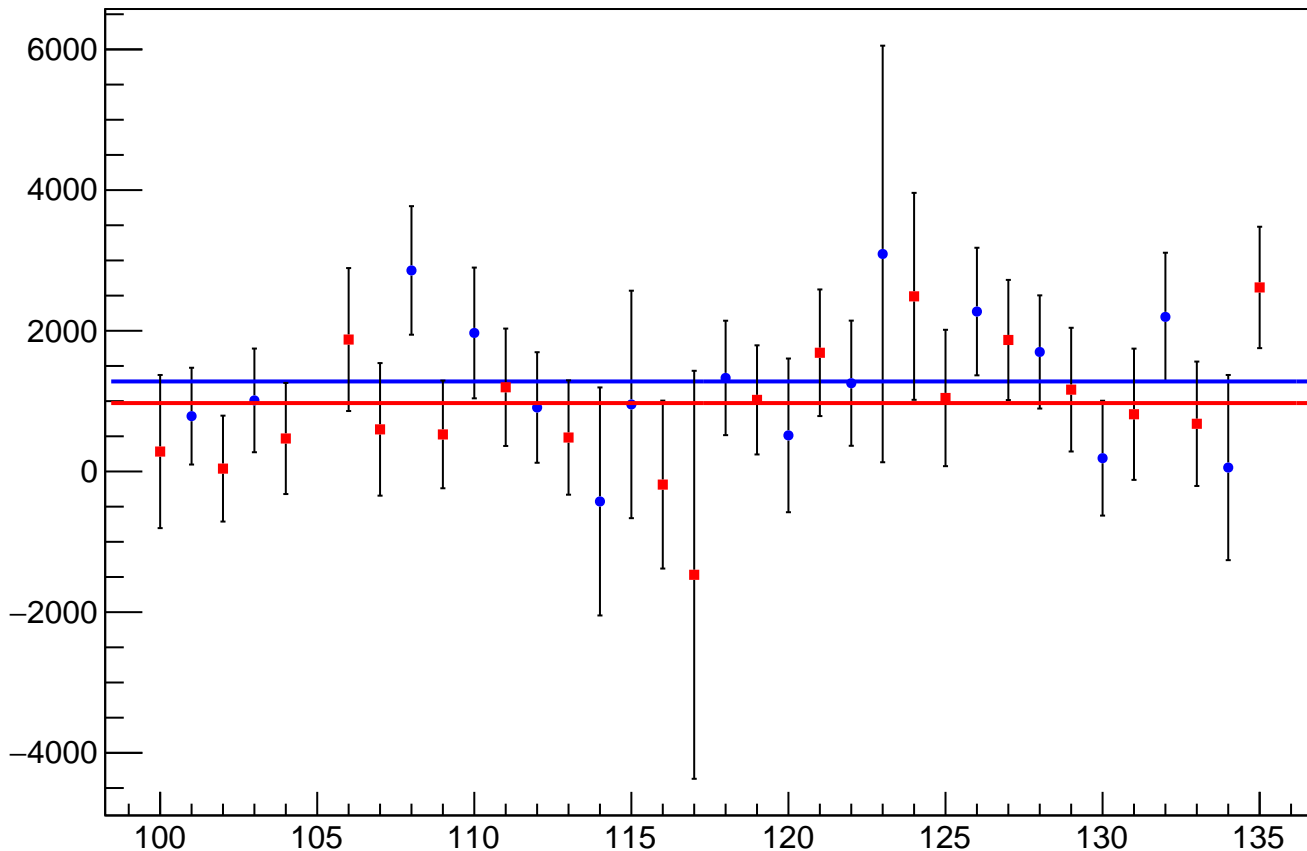
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1038.420+/-0.310  $\chi^2$ /NDF: 313337.3/15

1051.207+/-0.210  $\chi^2$ /NDF: 546502.1/34

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

# reg\_asym\_right\_dd\_mean vs Slug, Sign Corrected



Right In: 1279.854+/-232.753  $\chi^2$ /NDF: 11.6/15

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

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

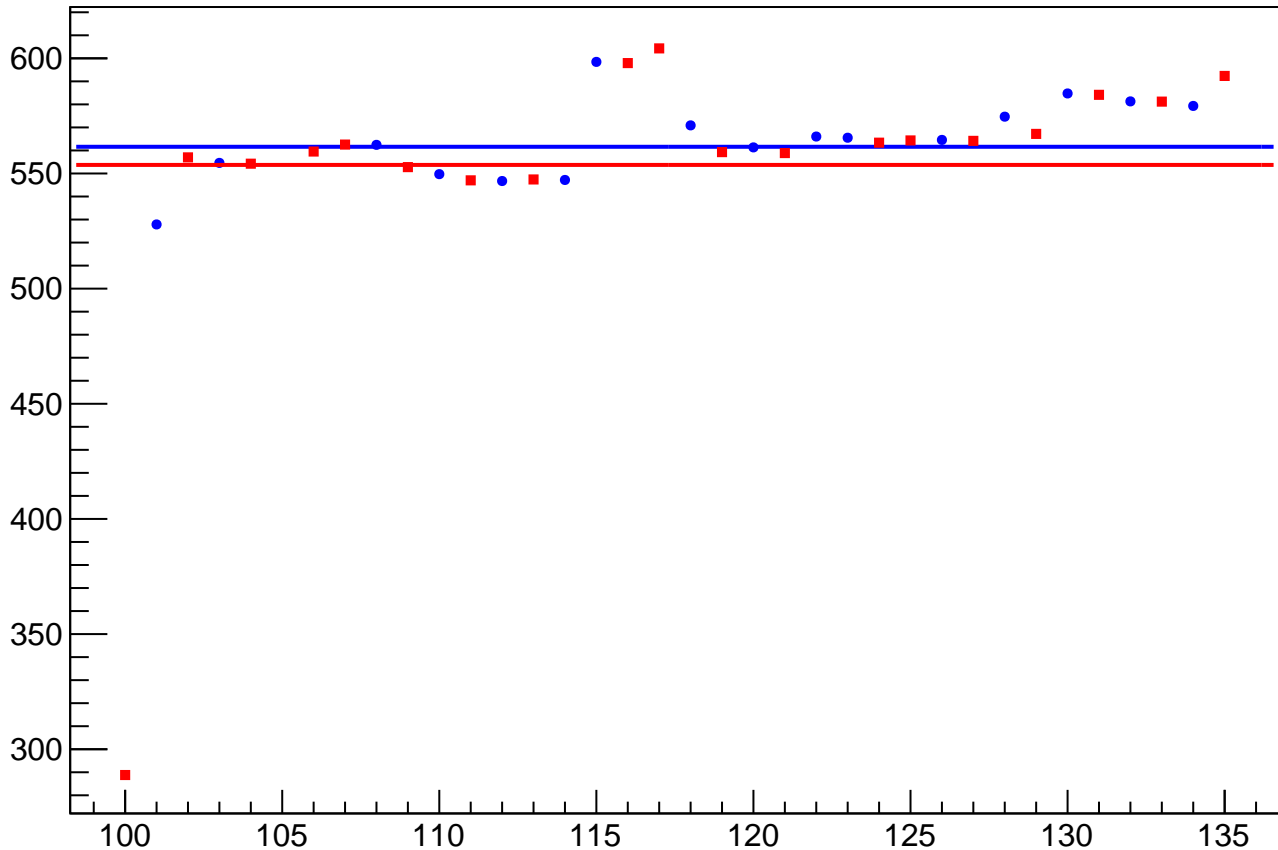
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1279.854+/-232.753  $\chi^2$ /NDF: 11.6/15

1110.462+/-155.980  $\chi^2$ /NDF: 24.9/34

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

# reg\_asym\_right\_dd\_rms vs Slug, Sign Corrected



Right In: 561.598+/-0.165  $\chi^2$ /NDF: 10998.2/15

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

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

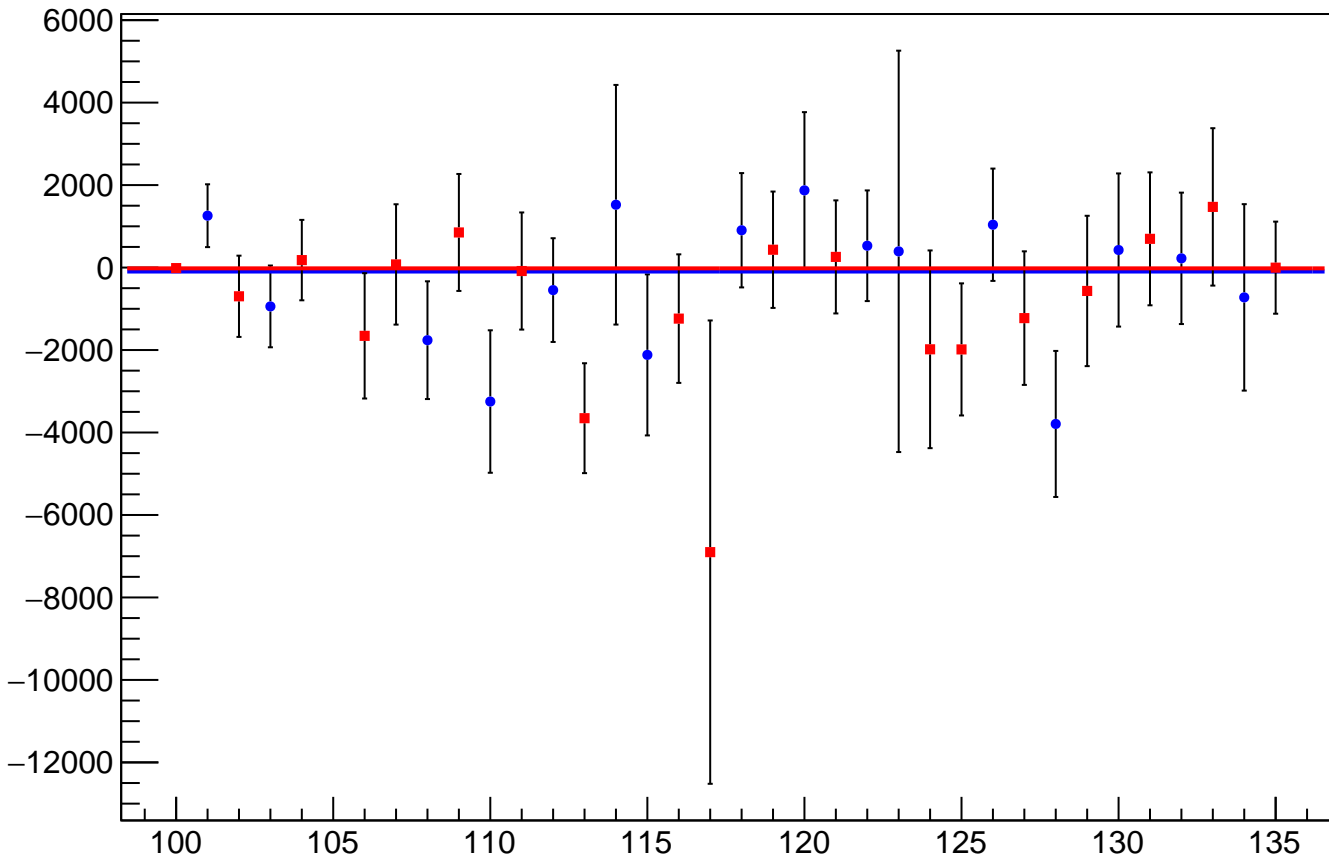
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

561.598+/-0.165  $\chi^2$ /NDF: 10998.2/15

557.257+/-0.110  $\chi^2$ /NDF: 143942.5/34

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

# asym\_right\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -96.359+/-360.091  $\chi^2$ /NDF: 17.2/15

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

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

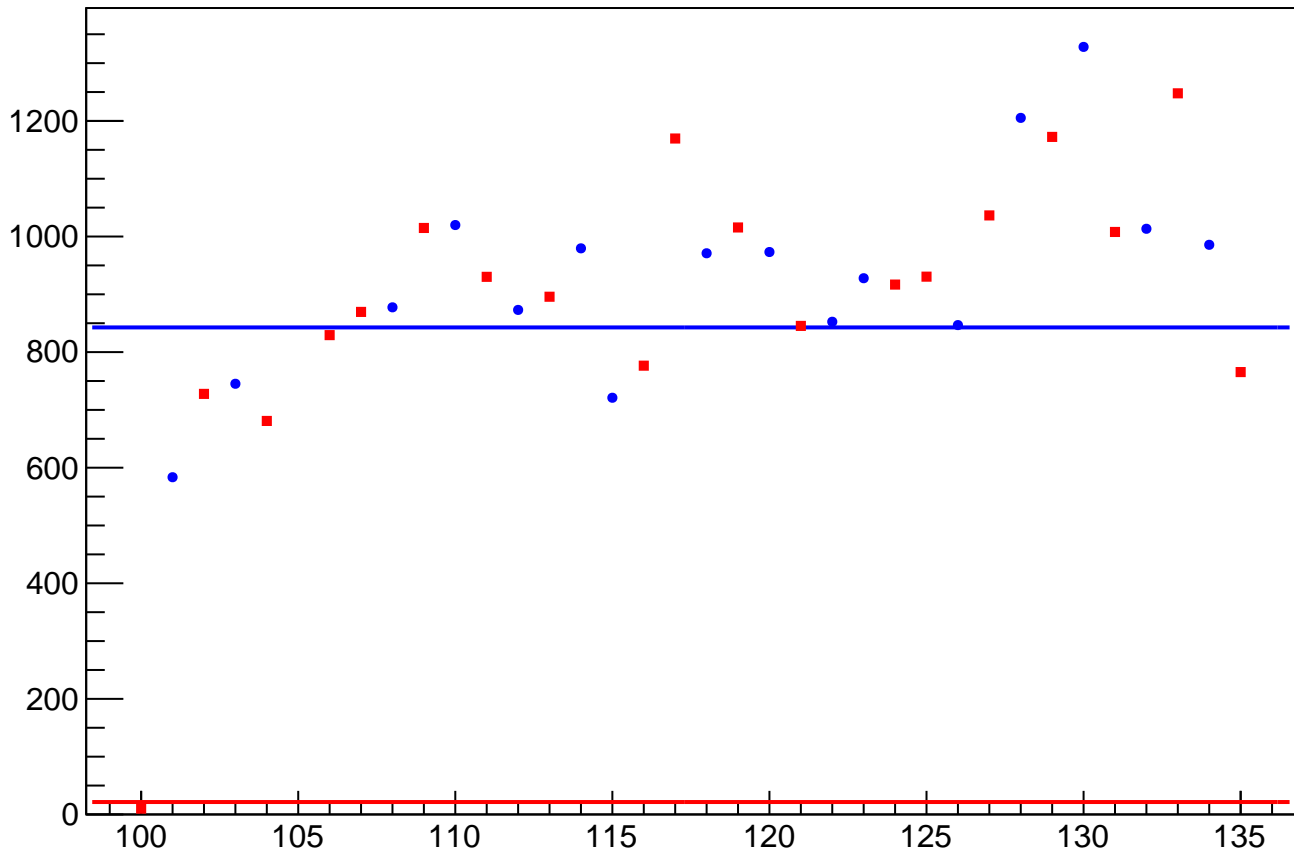
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-96.359+/-360.091  $\chi^2$ /NDF: 17.2/15

-20.317+/-38.737  $\chi^2$ /NDF: 32.6/34

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

# asym\_right\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 842.717+/-0.255  $\chi^2$ /NDF: 565200.3/15

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

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

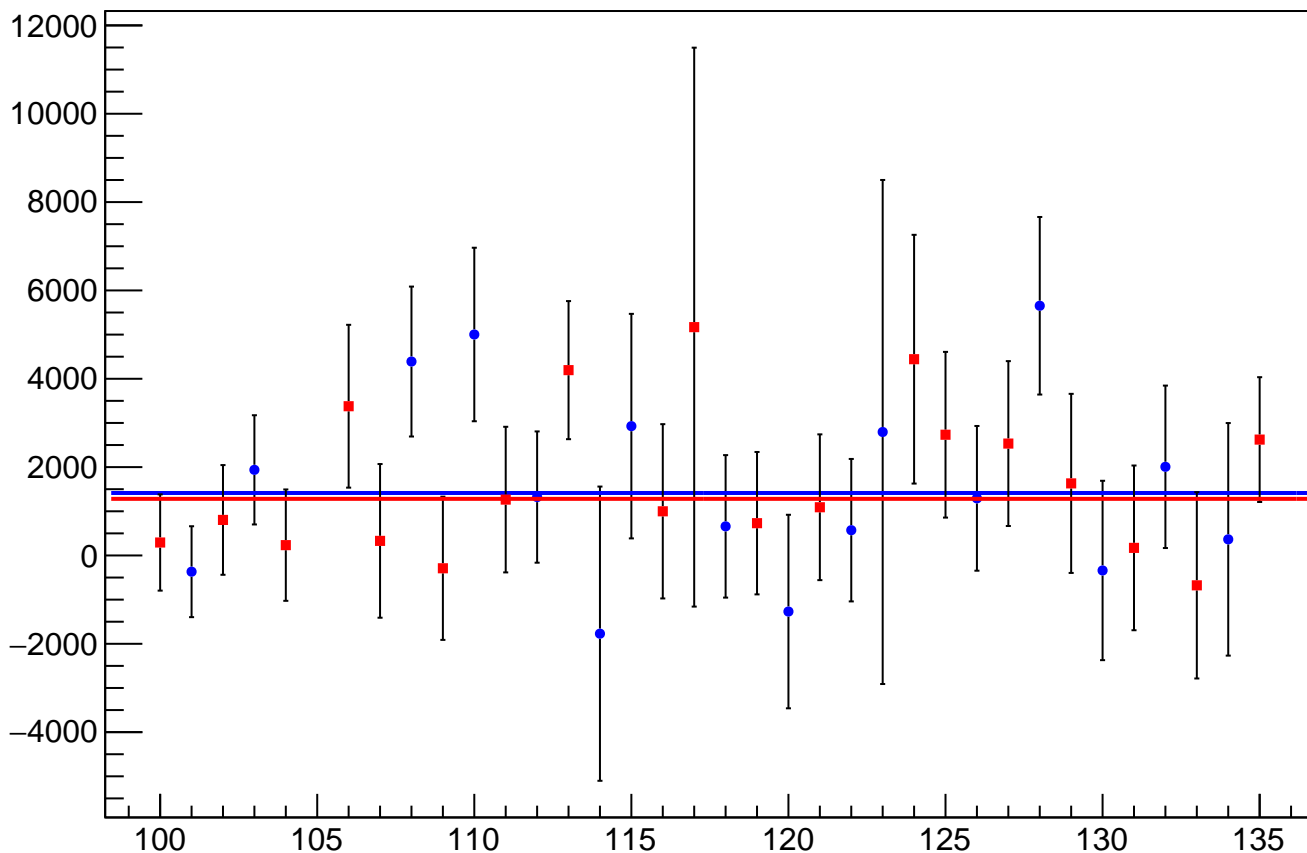
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

842.717+/-0.255  $\chi^2$ /NDF: 565200.3/15

31.005+/-0.027  $\chi^2$ /NDF: 24098169.6/34

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

# asym\_right\_dd\_mean vs Slug, Sign Corrected



Right In: 1414.304+/-437.964  $\chi^2$ /NDF: 18.4/15

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

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

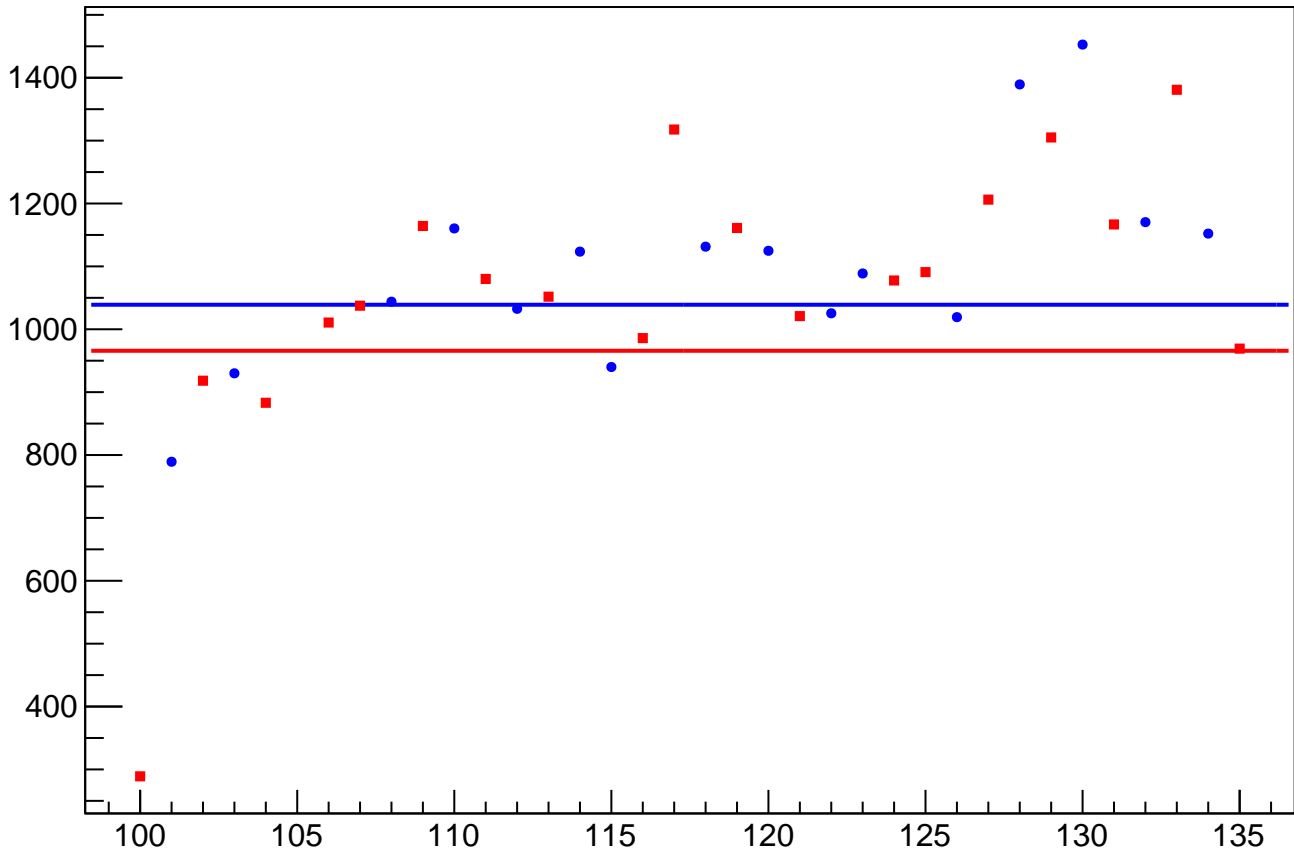
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1414.304+/-437.964  $\chi^2$ /NDF: 18.4/15

1338.833+/-287.428  $\chi^2$ /NDF: 31.1/34

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

# asym\_right\_dd\_rms vs Slug, Sign Corrected



Right In: 1039.006+/-0.310  $\chi^2$ /NDF: 313254.5/15

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

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

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

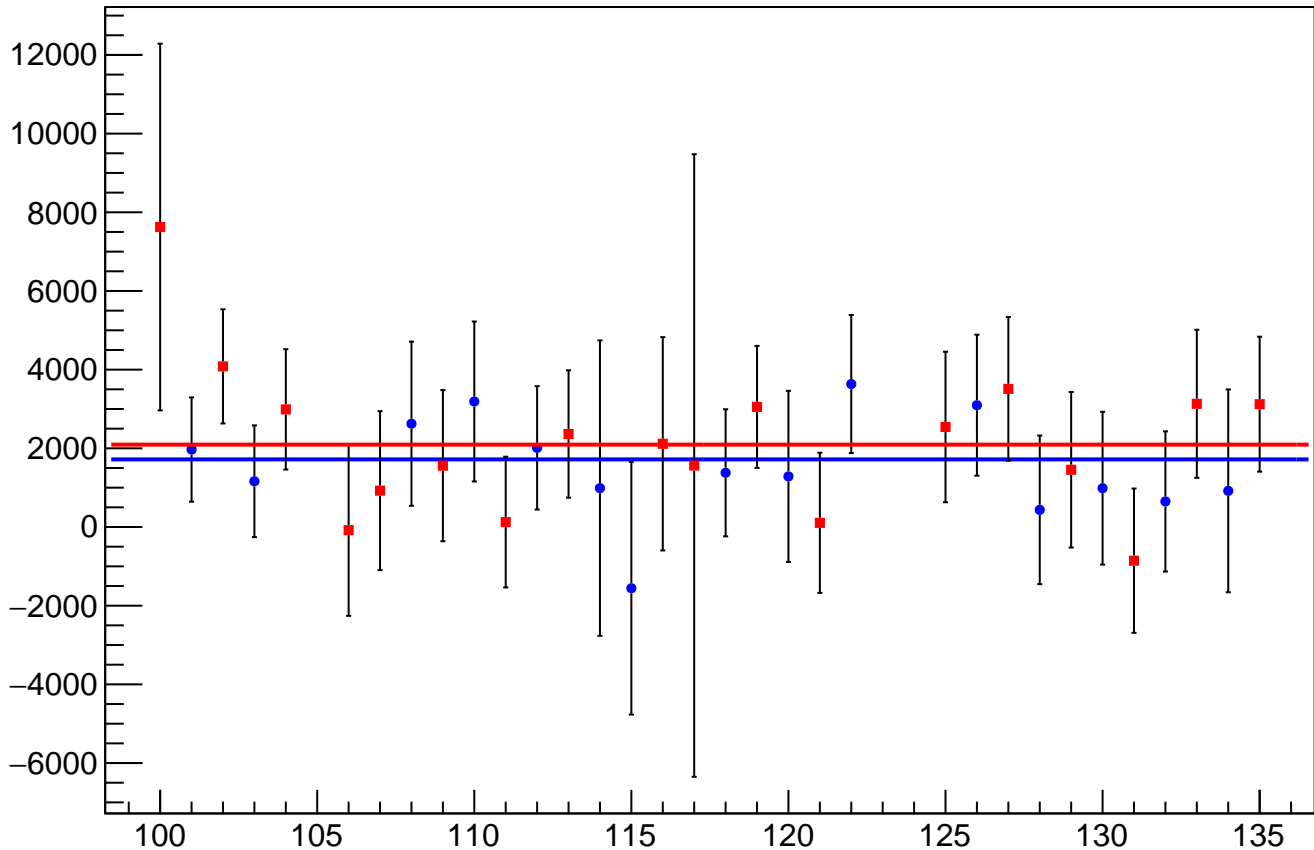
1039.006+/-0.310  $\chi^2$ /NDF: 313254.5/15

997.325+/-0.203  $\chi^2$ /NDF: 1418548.9/34

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



# cor\_usl\_mean vs Slug, Sign Corrected



Right In: 1718.534+/-479.364  $\chi^2$ /NDF: 4.9/14

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

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

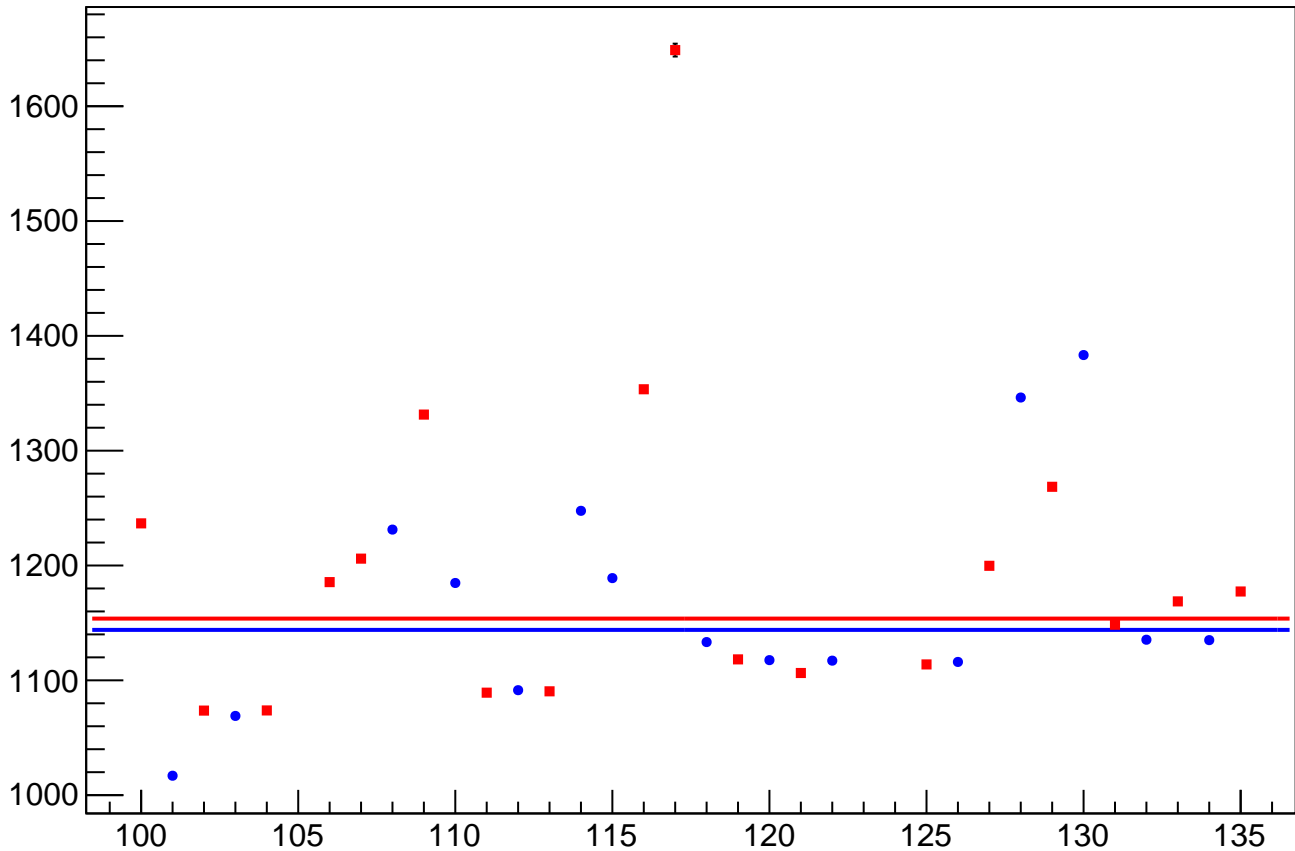
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1718.534+/-479.364  $\chi^2$ /NDF: 4.9/14

1920.098+/-326.141  $\chi^2$ /NDF: 17.4/32

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

# cor\_usl\_rms vs Slug, Sign Corrected



Right In: 1143.924+/-0.339  $\chi^2/\text{NDF}$ : 87132.2/14

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

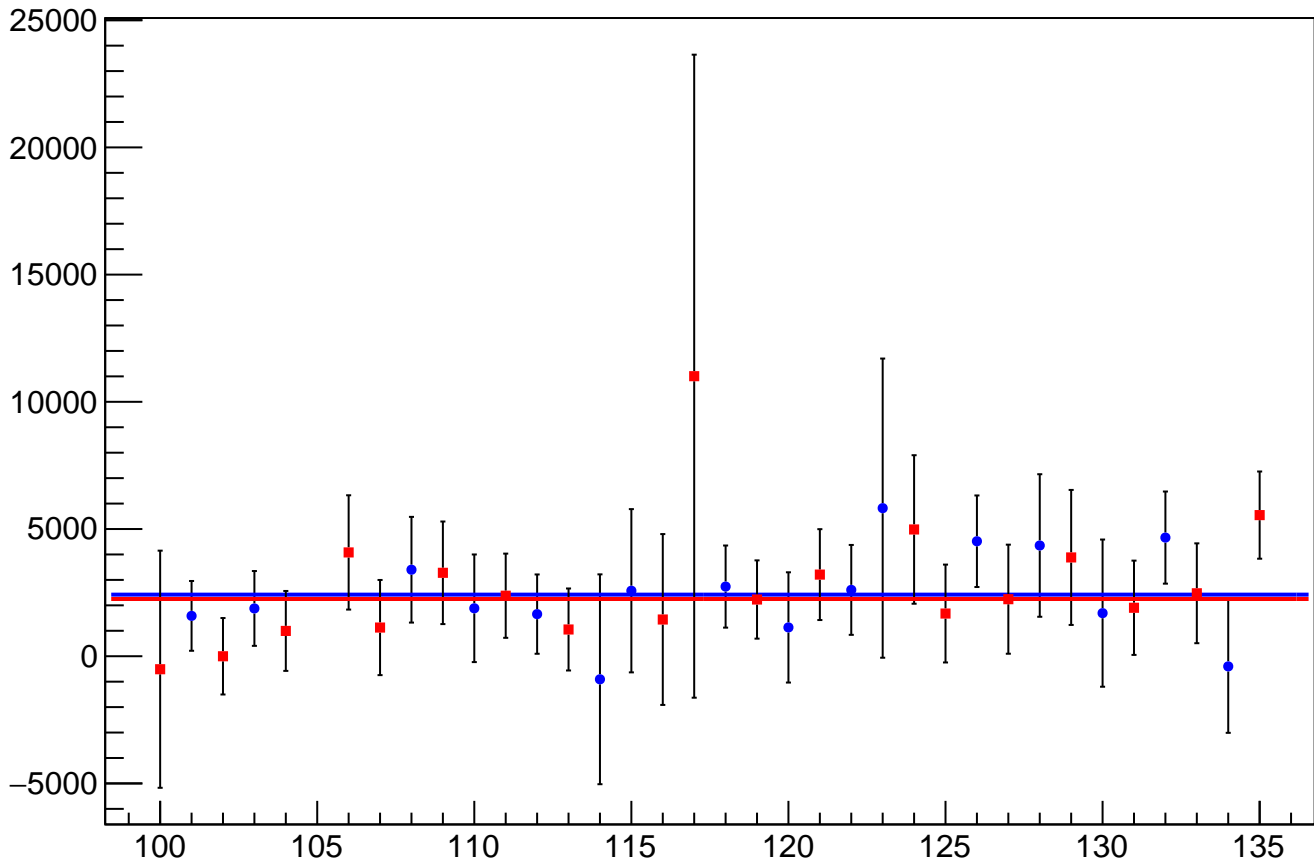
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1143.924+/-0.339  $\chi^2/\text{NDF}$ : 87132.2/14

1149.207+/-0.231  $\chi^2/\text{NDF}$ : 155280.1/32

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

# cor\_usr\_mean vs Slug, Sign Corrected



Right In: 2420.830+/-501.878  $\chi^2$ /NDF: 7.0/15

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

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

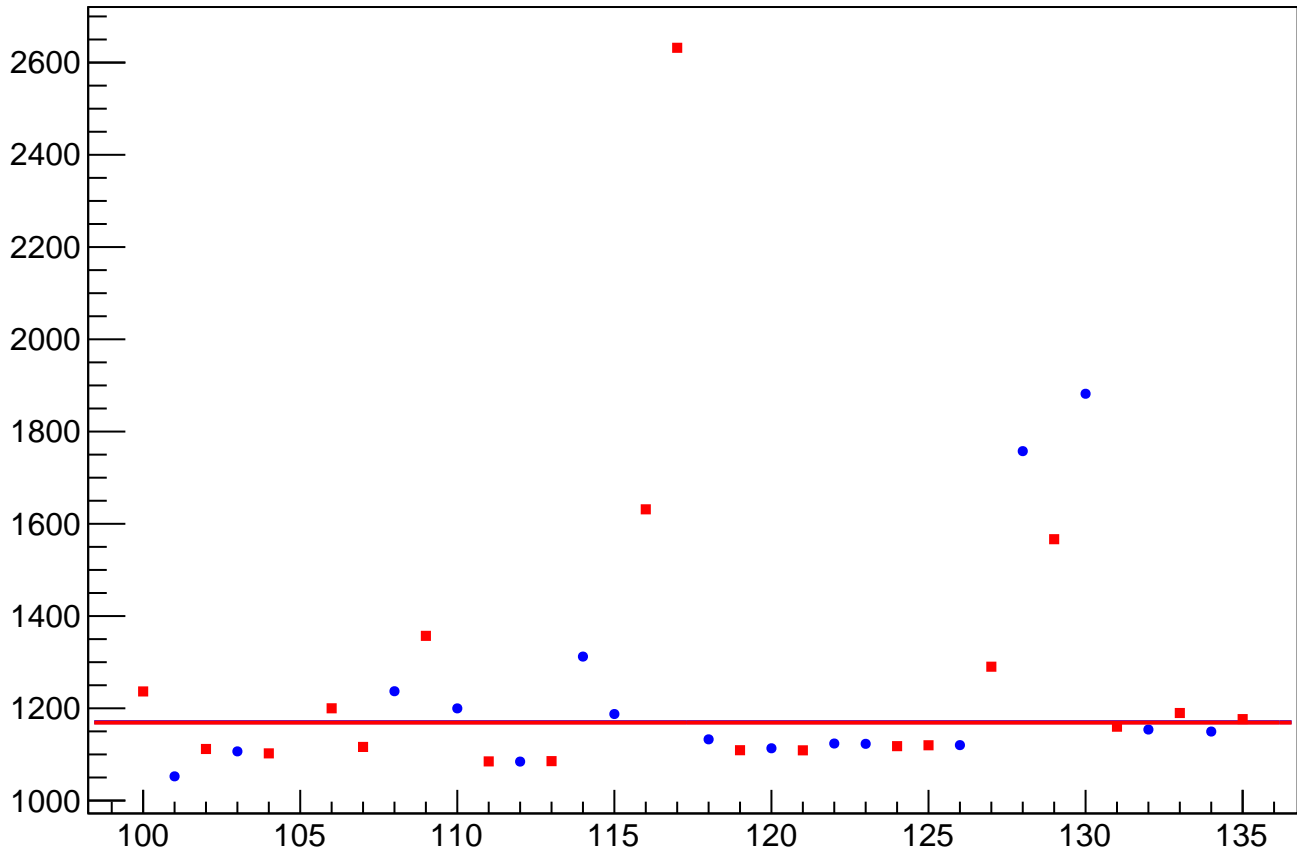
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2420.830+/-501.878  $\chi^2$ /NDF: 7.0/15

2326.747+/-336.824  $\chi^2$ /NDF: 18.1/34

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

# cor\_usr\_rms vs Slug, Sign Corrected



Right In: 1169.857+/-0.355  $\chi^2/\text{NDF}$ : 244175.7/15

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

Right Out: 1169.056+/-0.321  $\chi^2/\text{NDF}$ : 160401.0/18

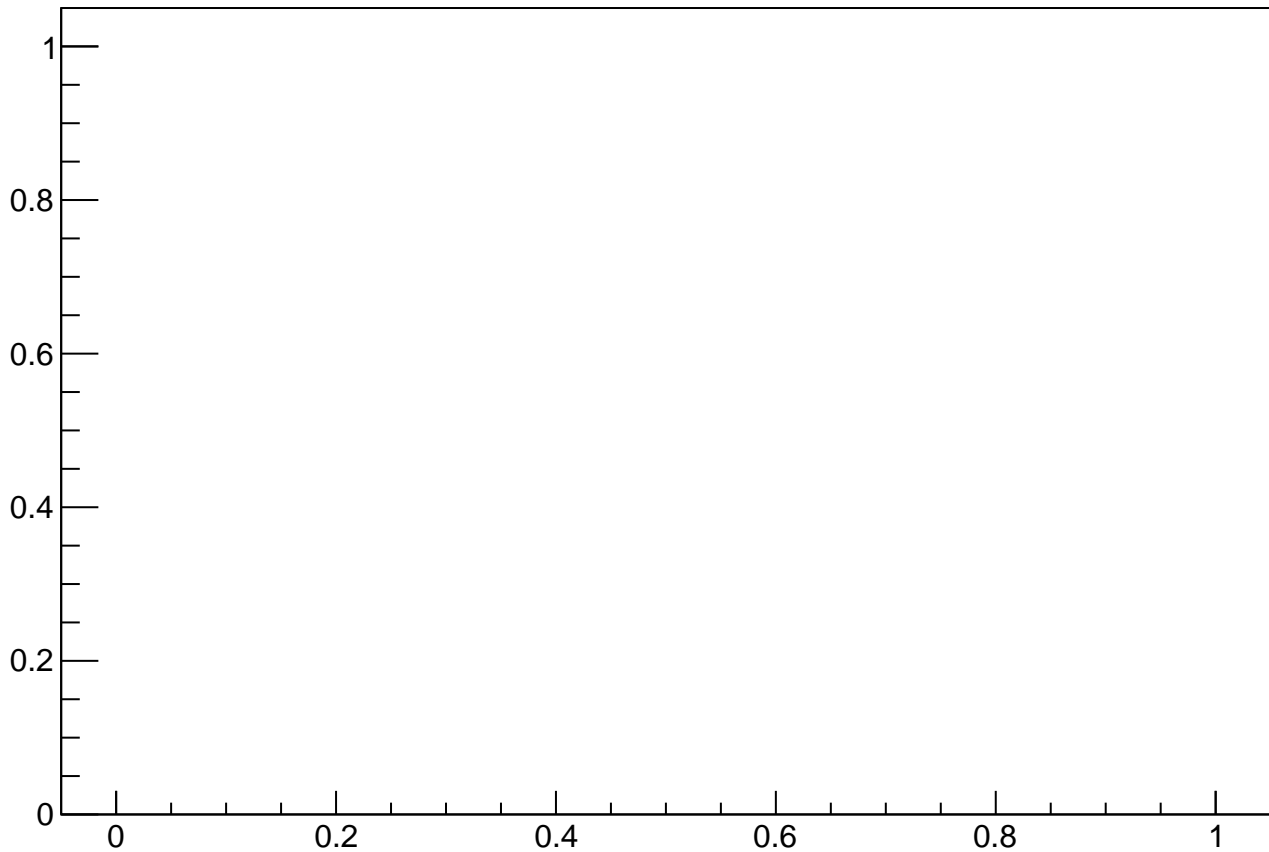
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1169.857+/-0.355  $\chi^2/\text{NDF}$ : 244175.7/15

1169.417+/-0.238  $\chi^2/\text{NDF}$ : 404579.4/34

1169.056+/-0.321  $\chi^2/\text{NDF}$ : 160401.0/18

# cor\_dsl\_mean vs Slug, Sign Corrected



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

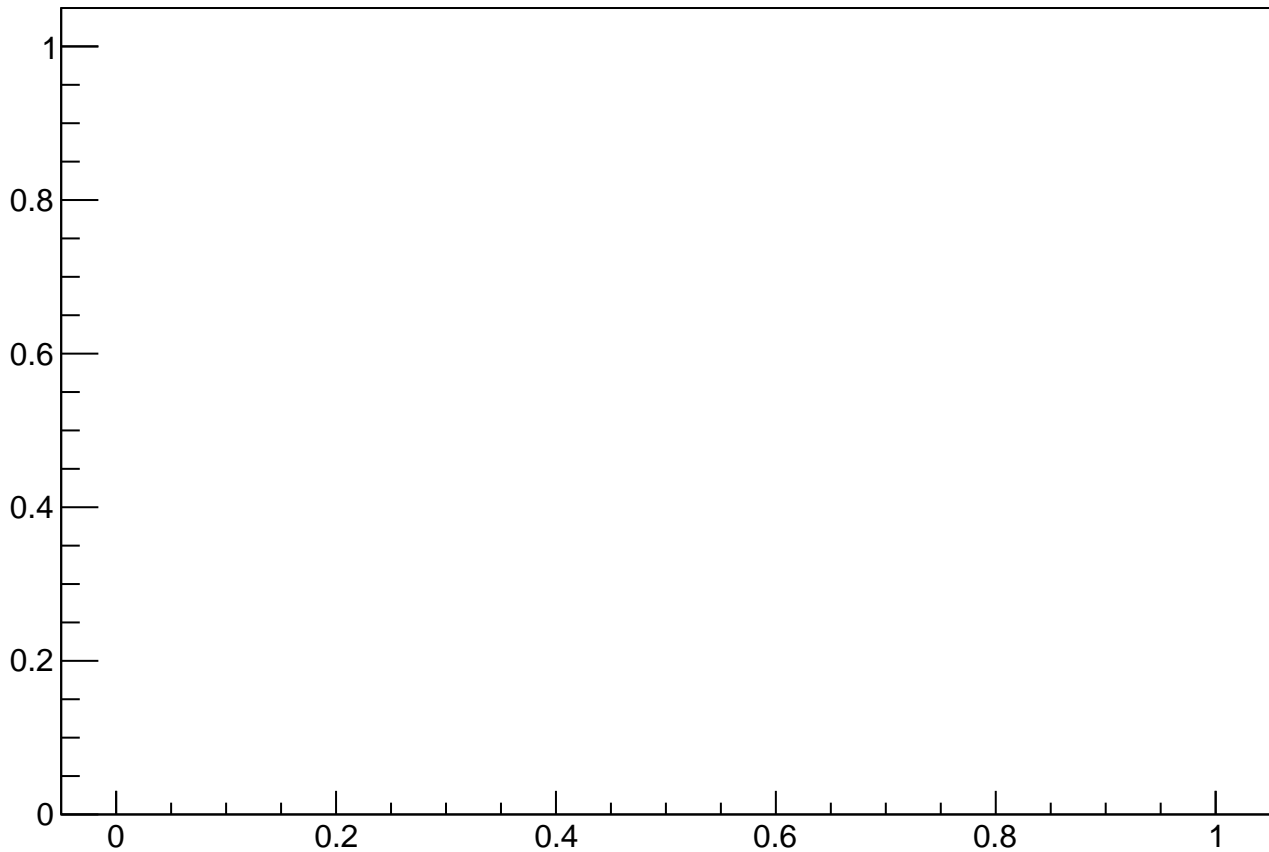
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# cor\_dsl\_rms vs Slug, Sign Corrected



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

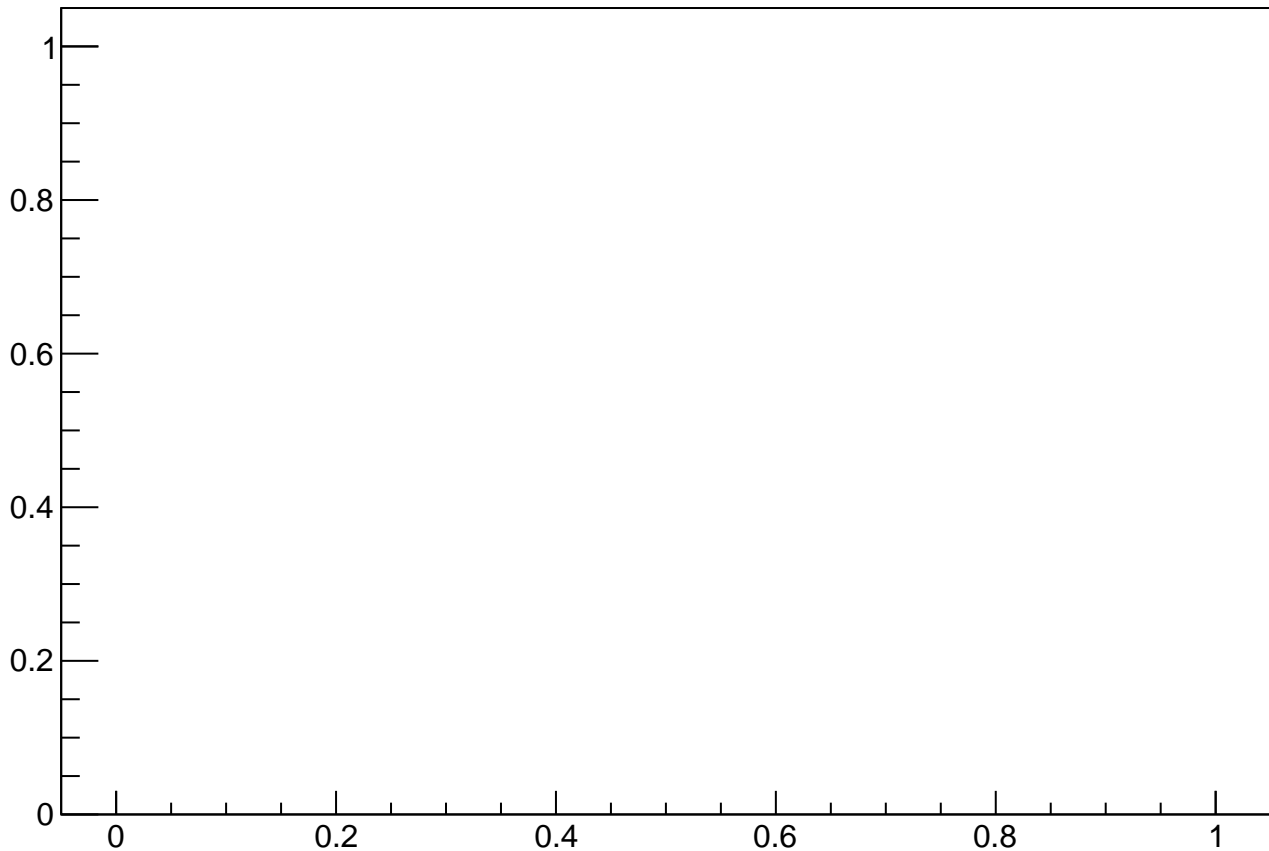
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# cor\_dsr\_mean vs Slug, Sign Corrected



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

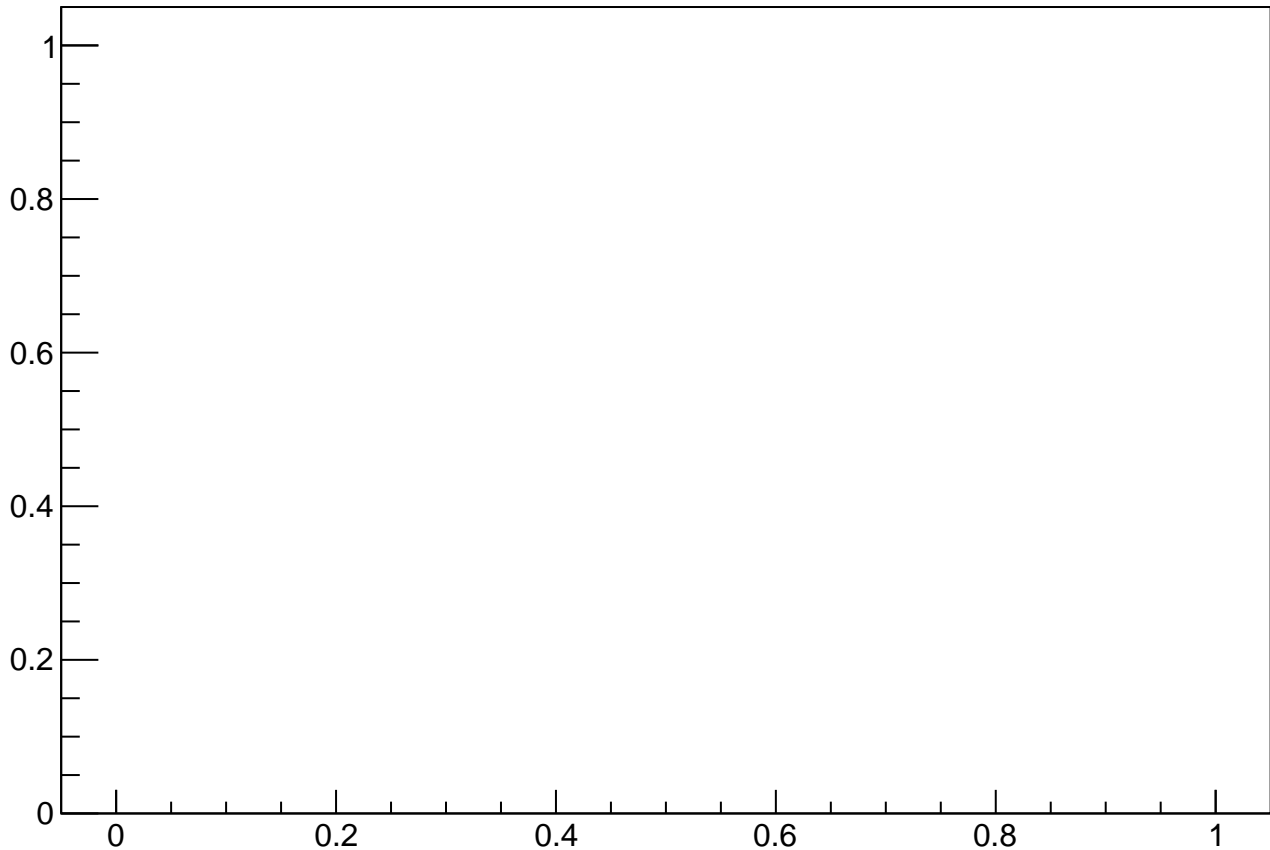
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# cor\_dsr\_rms vs Slug, Sign Corrected



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

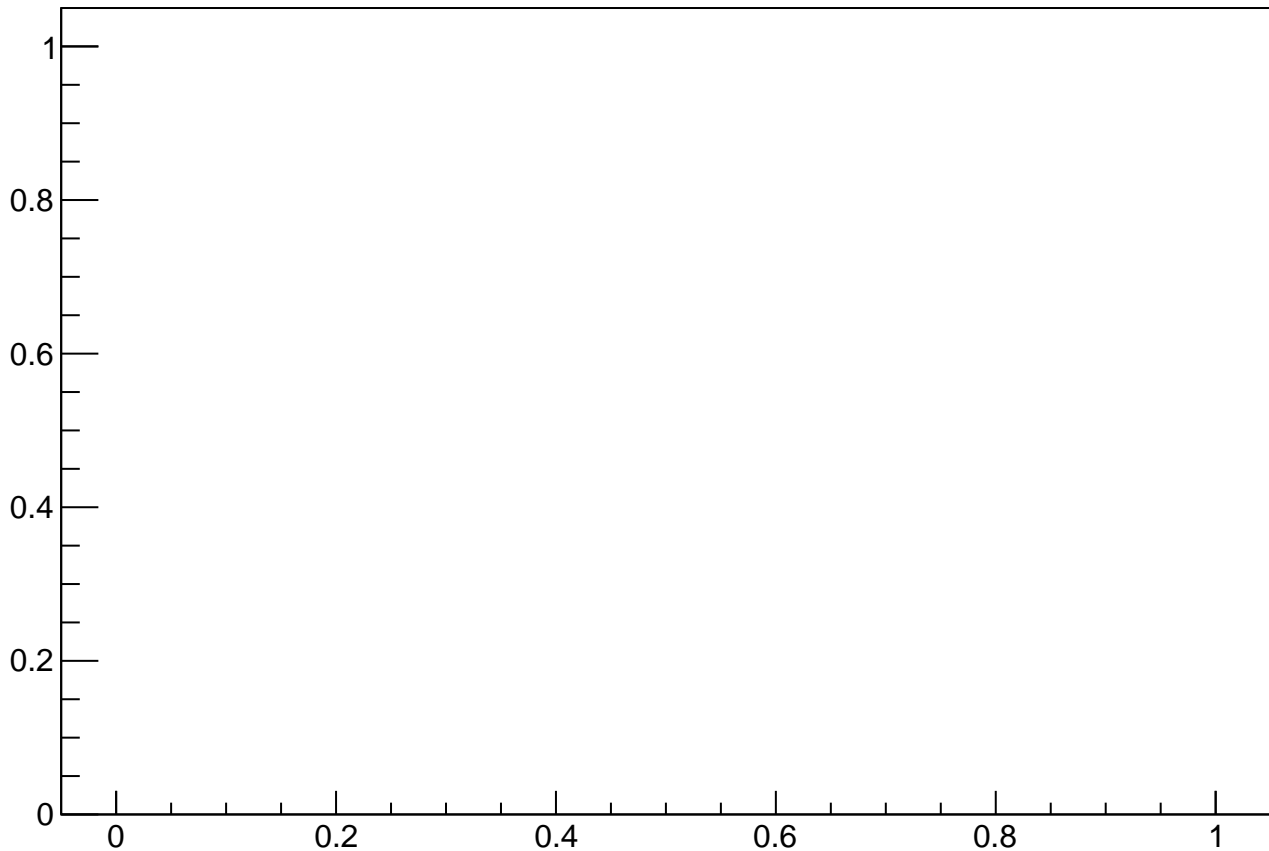
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

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



# cor\_us\_avg\_mean vs Slug, Sign Corrected



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

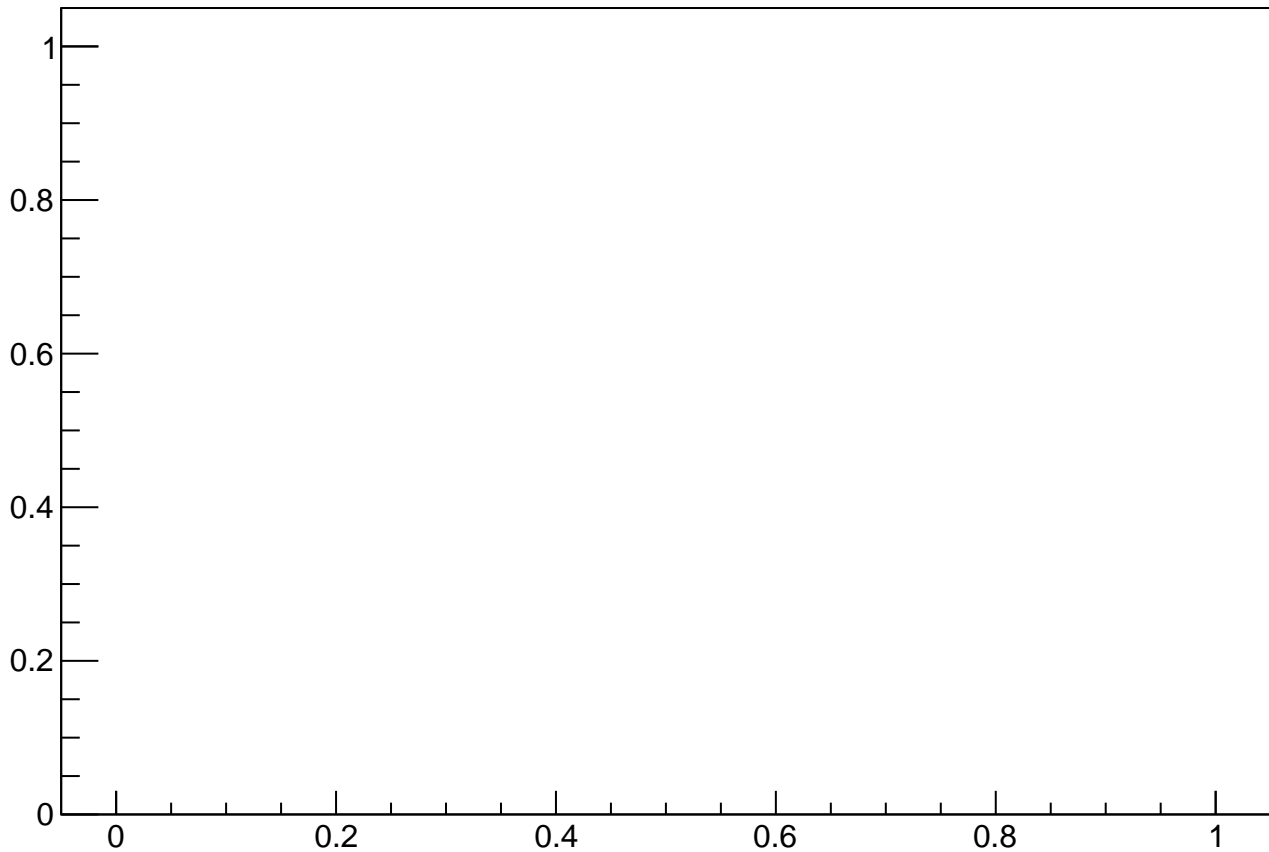
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# cor\_us\_avg\_rms vs Slug, Sign Corrected



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

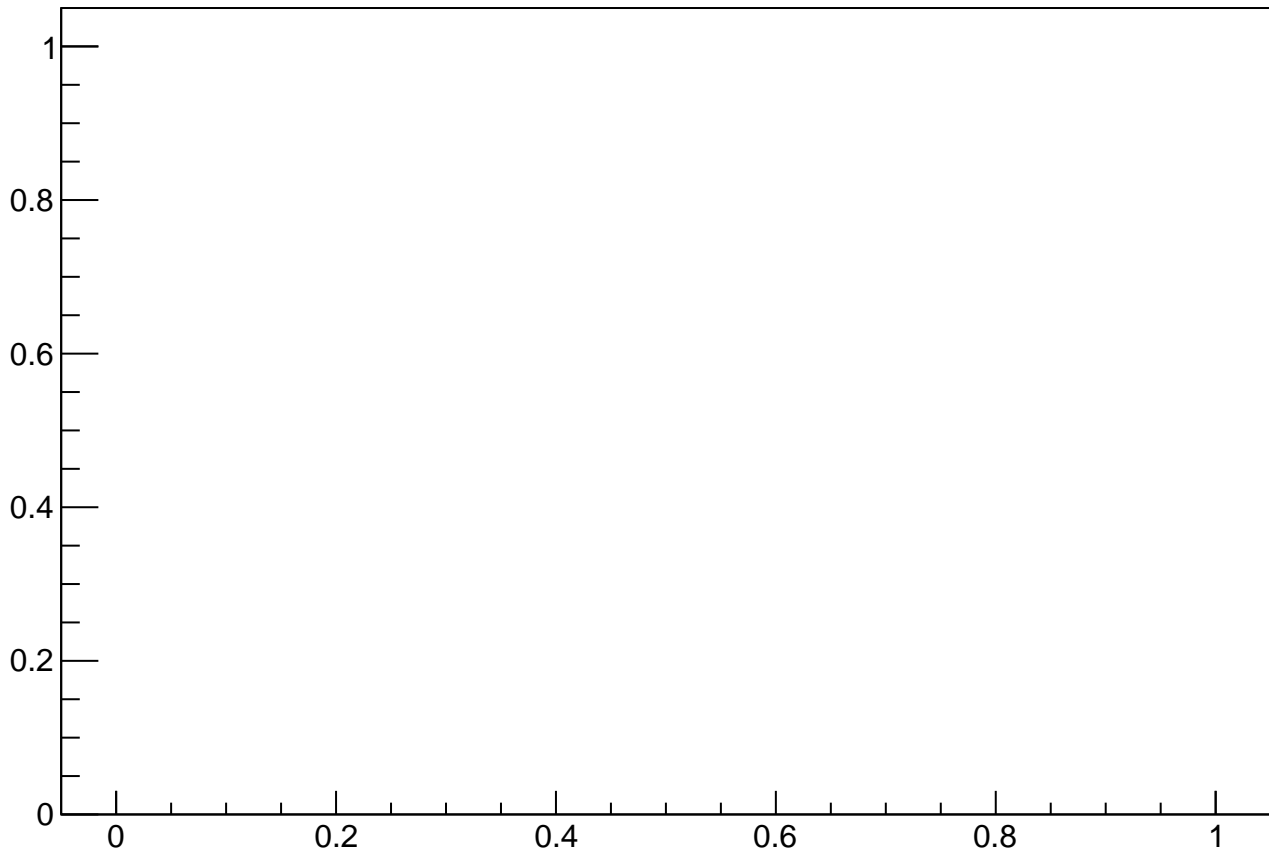
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# cor\_us\_dd\_mean vs Slug, Sign Corrected



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

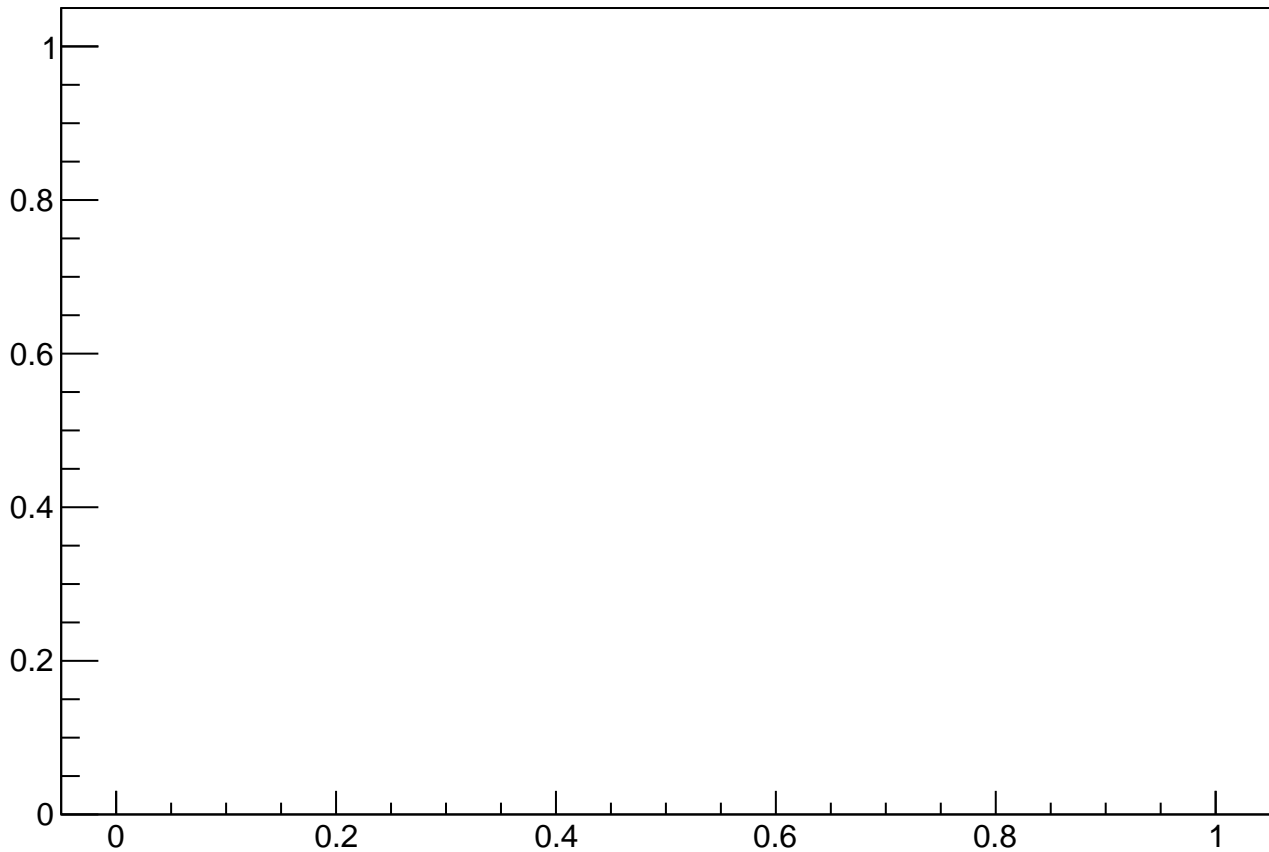
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# cor\_us\_dd\_rms vs Slug, Sign Corrected



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

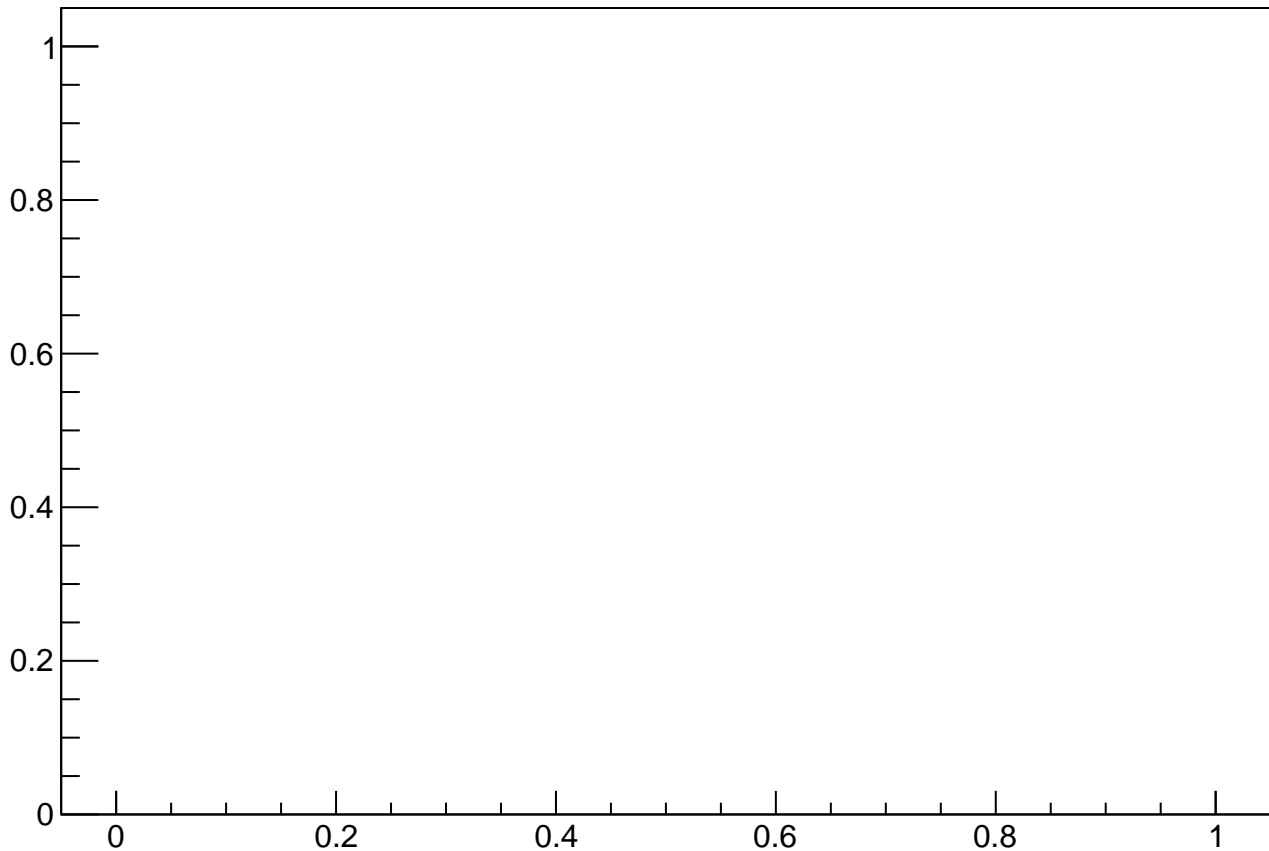
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# cor\_ds\_avg\_mean vs Slug, Sign Corrected



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

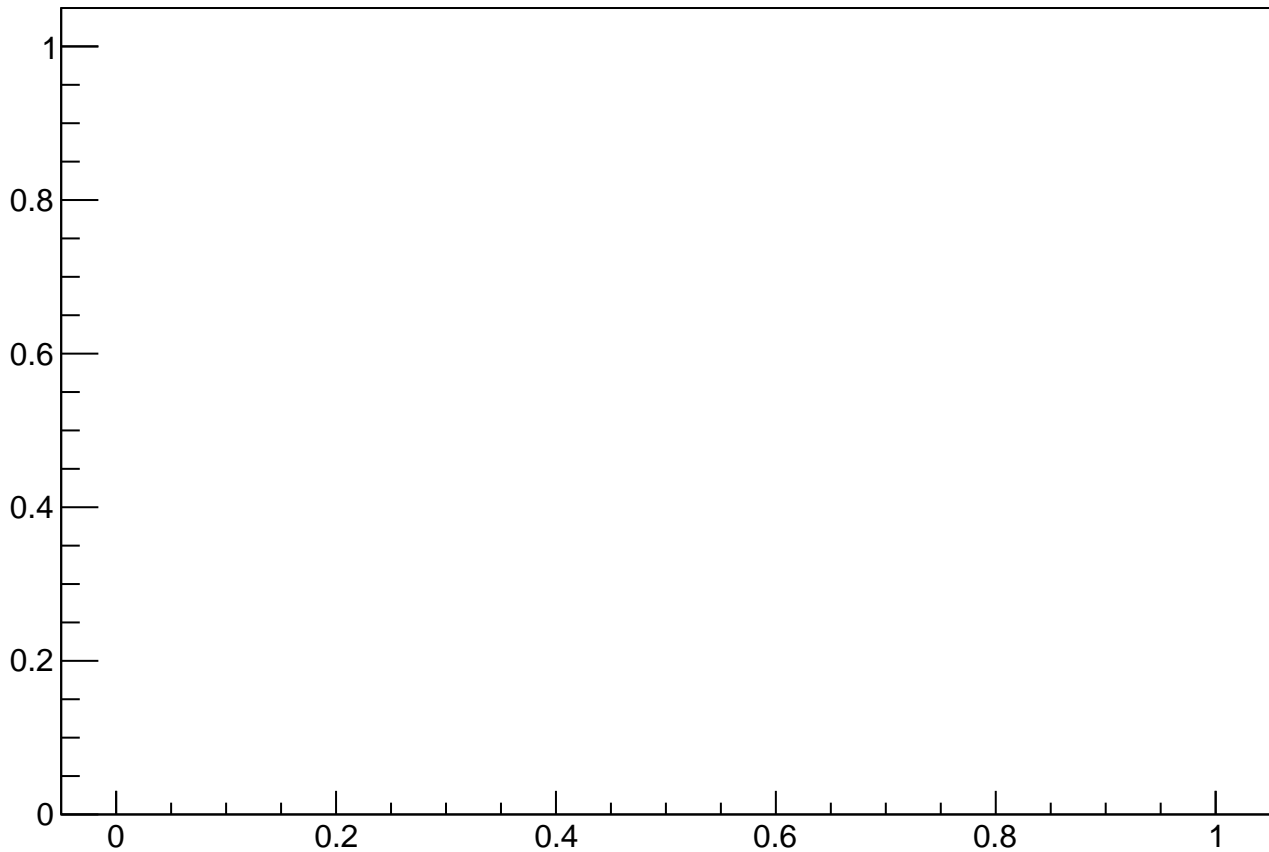
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# cor\_ds\_avg\_rms vs Slug, Sign Corrected



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

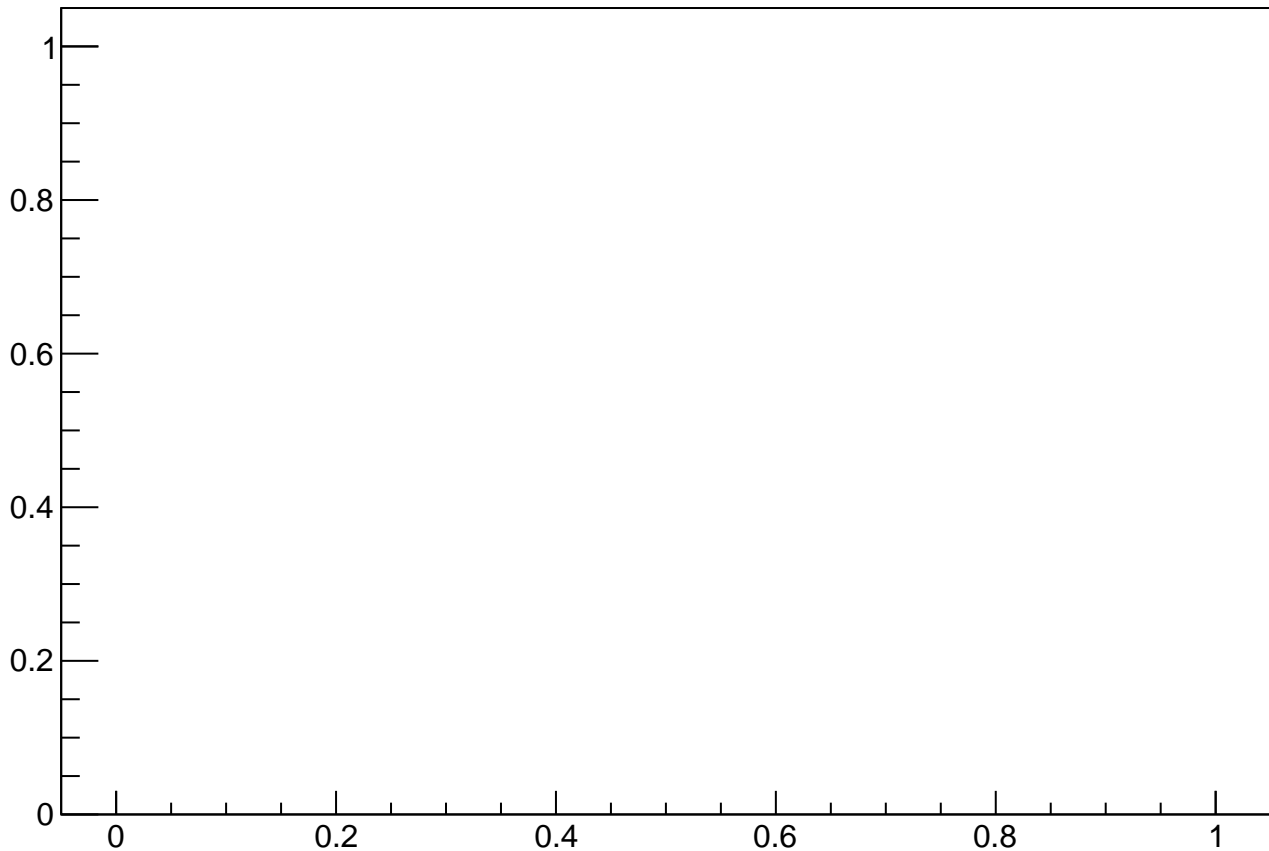
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# cor\_ds\_dd\_mean vs Slug, Sign Corrected



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

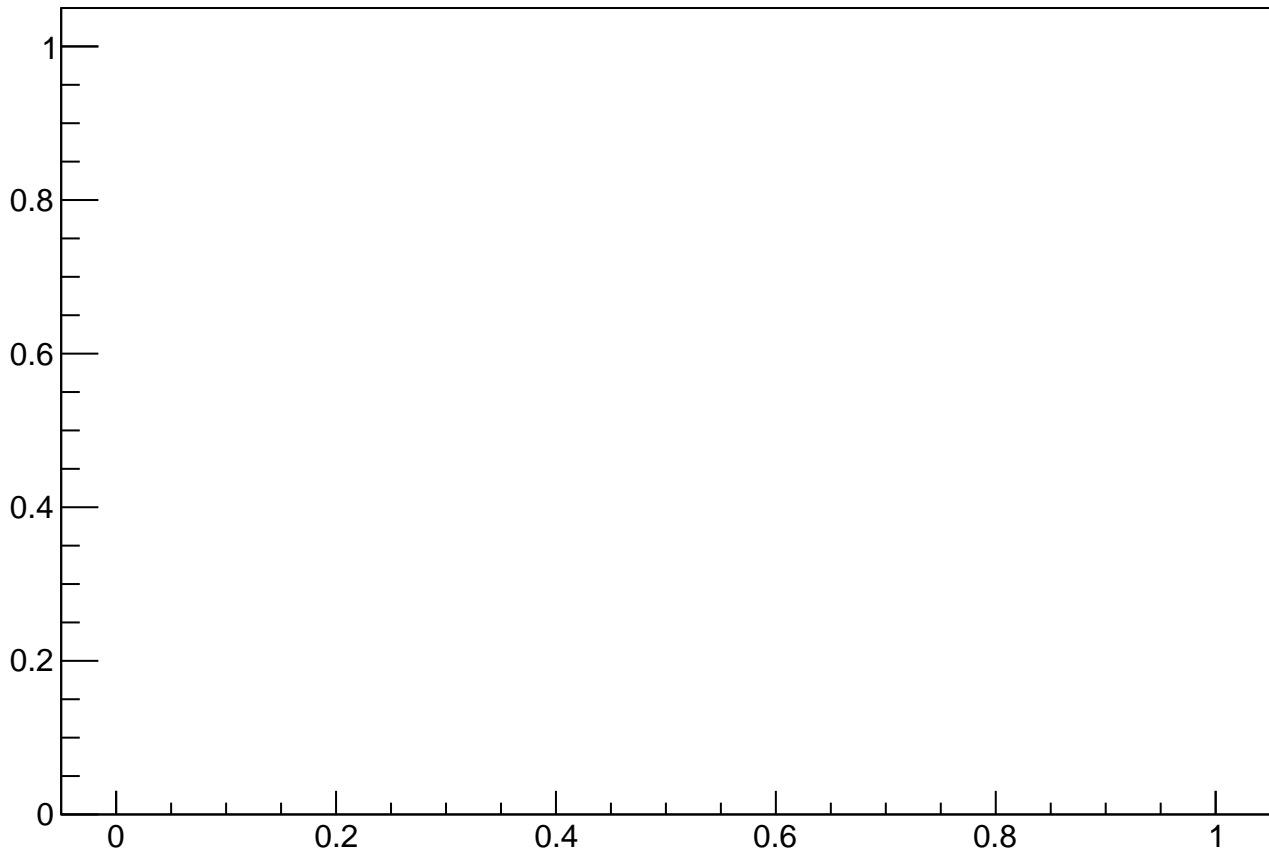
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# cor\_ds\_dd\_rms vs Slug, Sign Corrected



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

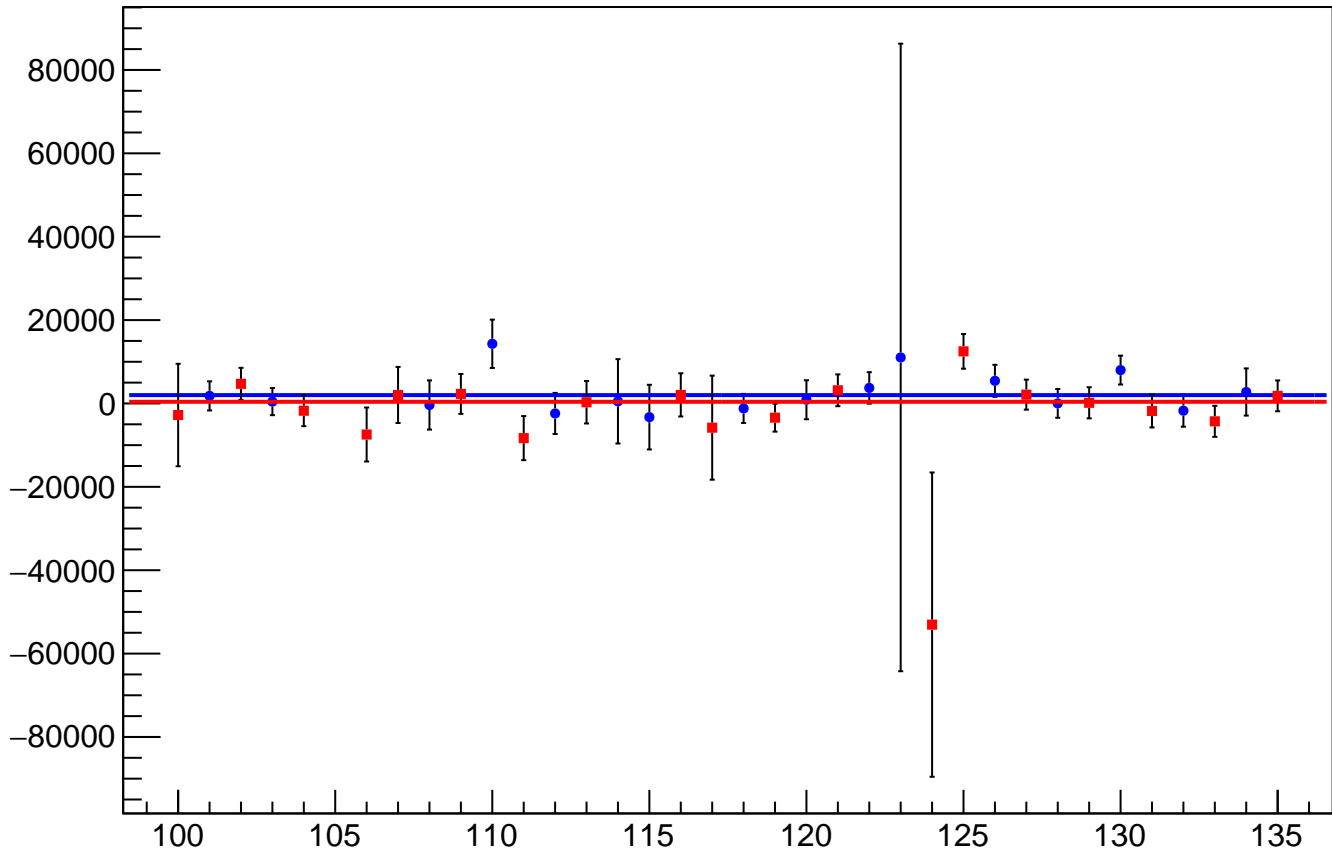
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

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



# reg\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2002.715 $\pm$ 1094.406  $\chi^2$ /NDF: 12.4/15

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

Right Out: 403.694 $\pm$ 1037.304  $\chi^2$ /NDF: 21.1/18

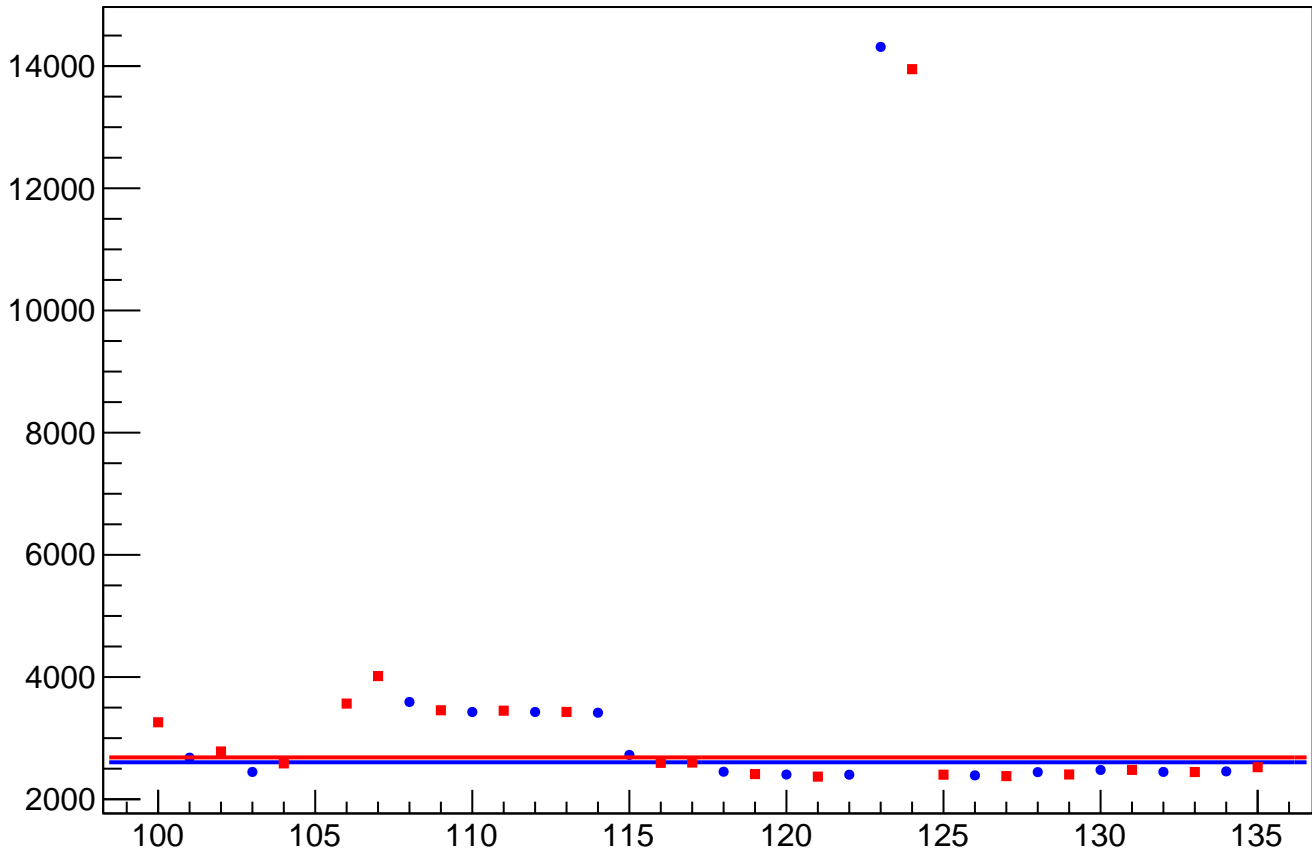
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

2002.715 $\pm$ 1094.406  $\chi^2$ /NDF: 12.4/15

1160.403 $\pm$ 752.863  $\chi^2$ /NDF: 34.6/34

403.694 $\pm$ 1037.304  $\chi^2$ /NDF: 21.1/18

# reg\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2605.010+/-0.774  $\chi^2/\text{NDF}$ : 250932.7/15

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

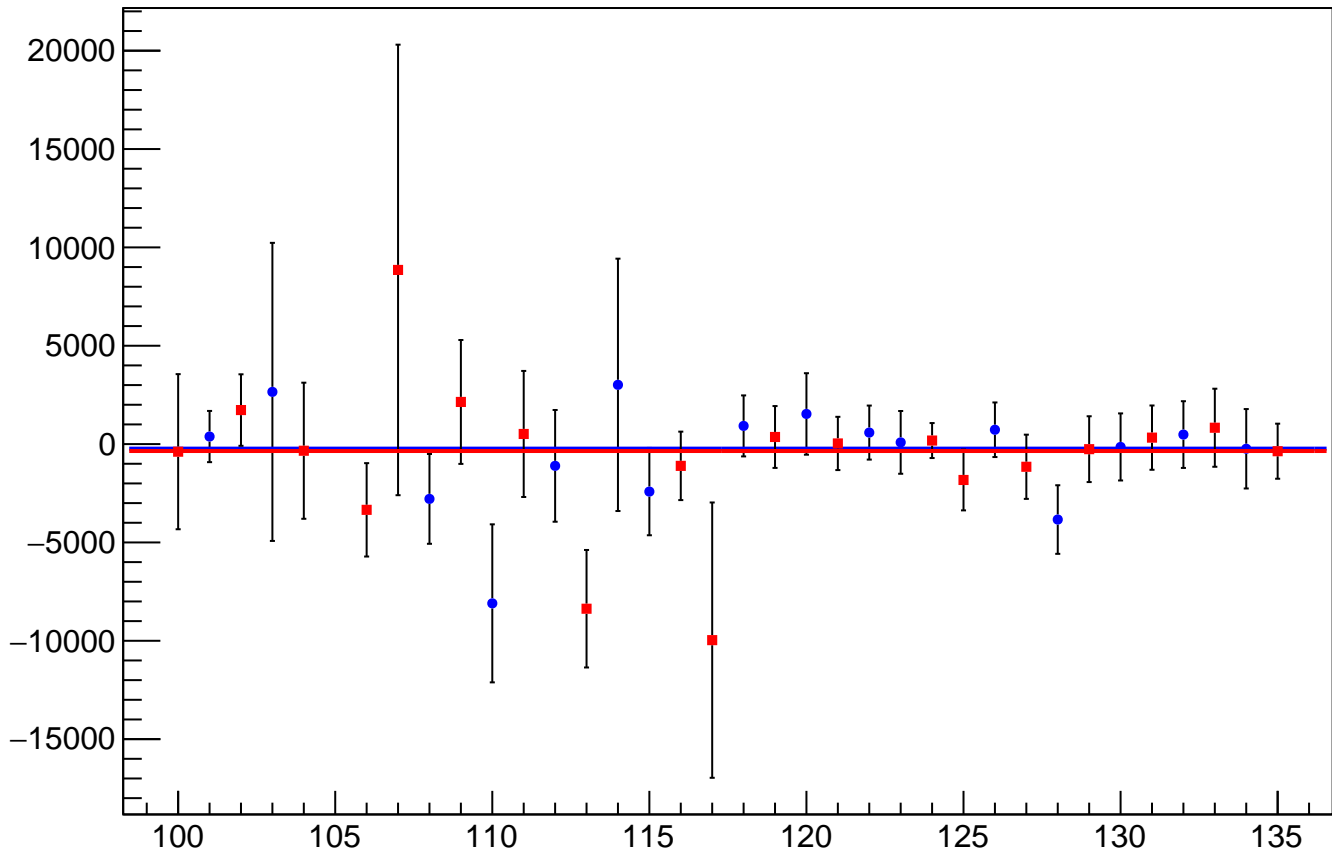
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2605.010+/-0.774  $\chi^2/\text{NDF}$ : 250932.7/15

2647.075+/-0.532  $\chi^2/\text{NDF}$ : 785781.8/34

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

# asym\_atl1\_correction\_mean vs Slug, Sign Corrected



Right In:  $-230.981 \pm 467.804$   $\chi^2/\text{NDF}: 13.4/15$

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

Right Out:  $-352.165 \pm 415.172$   $\chi^2/\text{NDF}: 15.9/18$

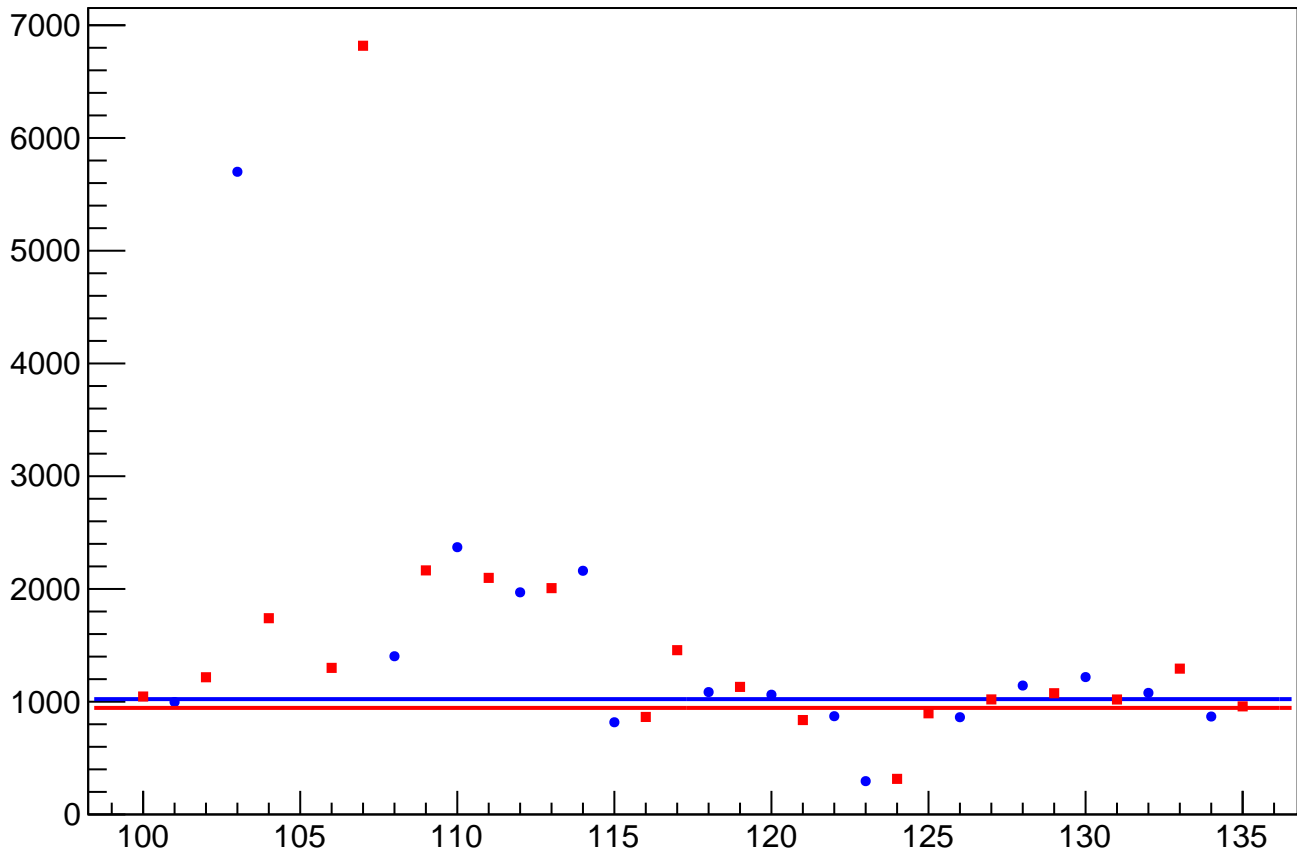
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-230.981 \pm 467.804$   $\chi^2/\text{NDF}: 13.4/15$

$-298.771 \pm 310.519$   $\chi^2/\text{NDF}: 29.3/34$

$-352.165 \pm 415.172$   $\chi^2/\text{NDF}: 15.9/18$

# asym\_atl1\_correction\_rms vs Slug, Sign Corrected



Right In: 1022.973+/-0.331  $\chi^2$ /NDF: 1866394.9/15

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

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

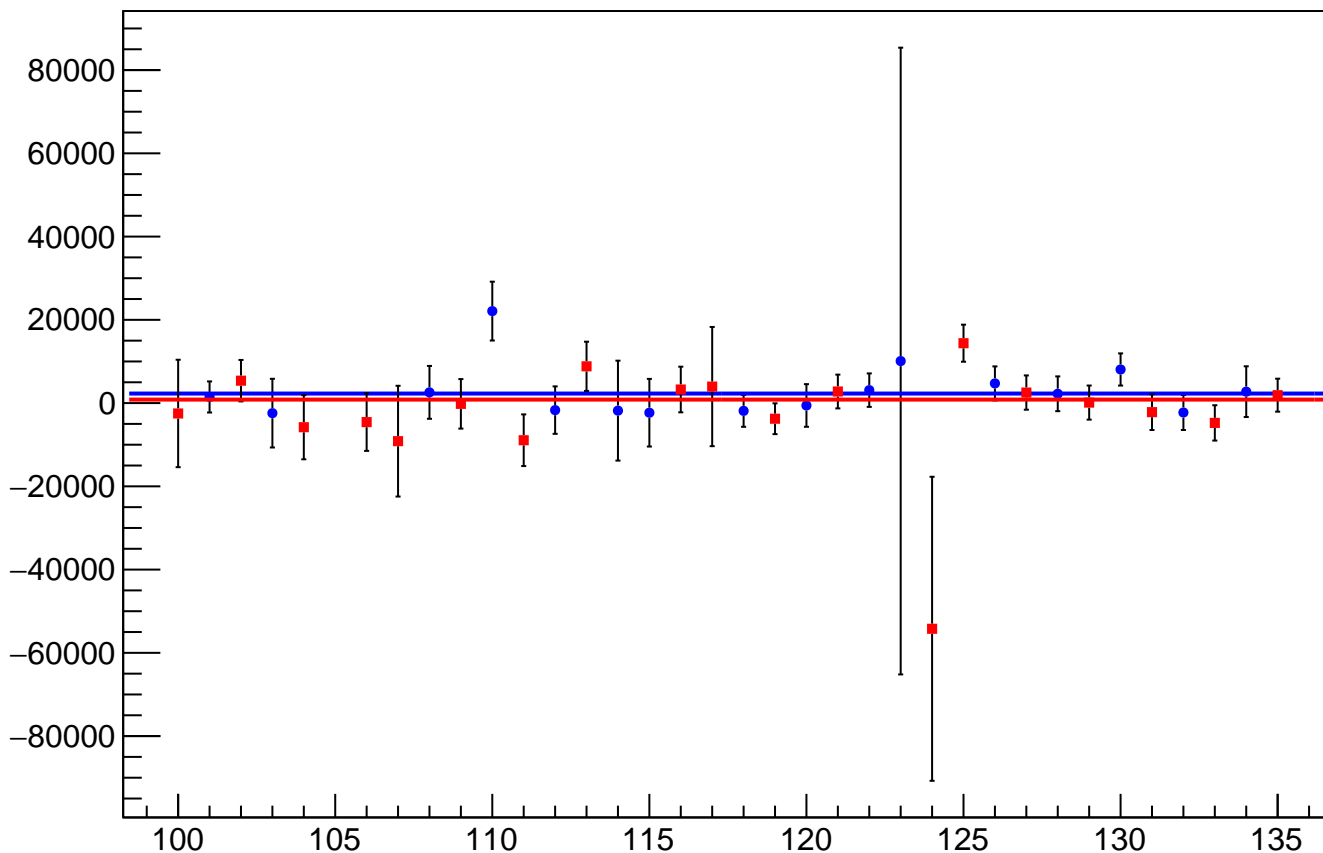
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1022.973+/-0.331  $\chi^2$ /NDF: 1866394.9/15

979.390+/-0.220  $\chi^2$ /NDF: 4573806.8/34

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

# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2290.657+/-1269.945  $\chi^2$ /NDF: 14.5/15

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

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

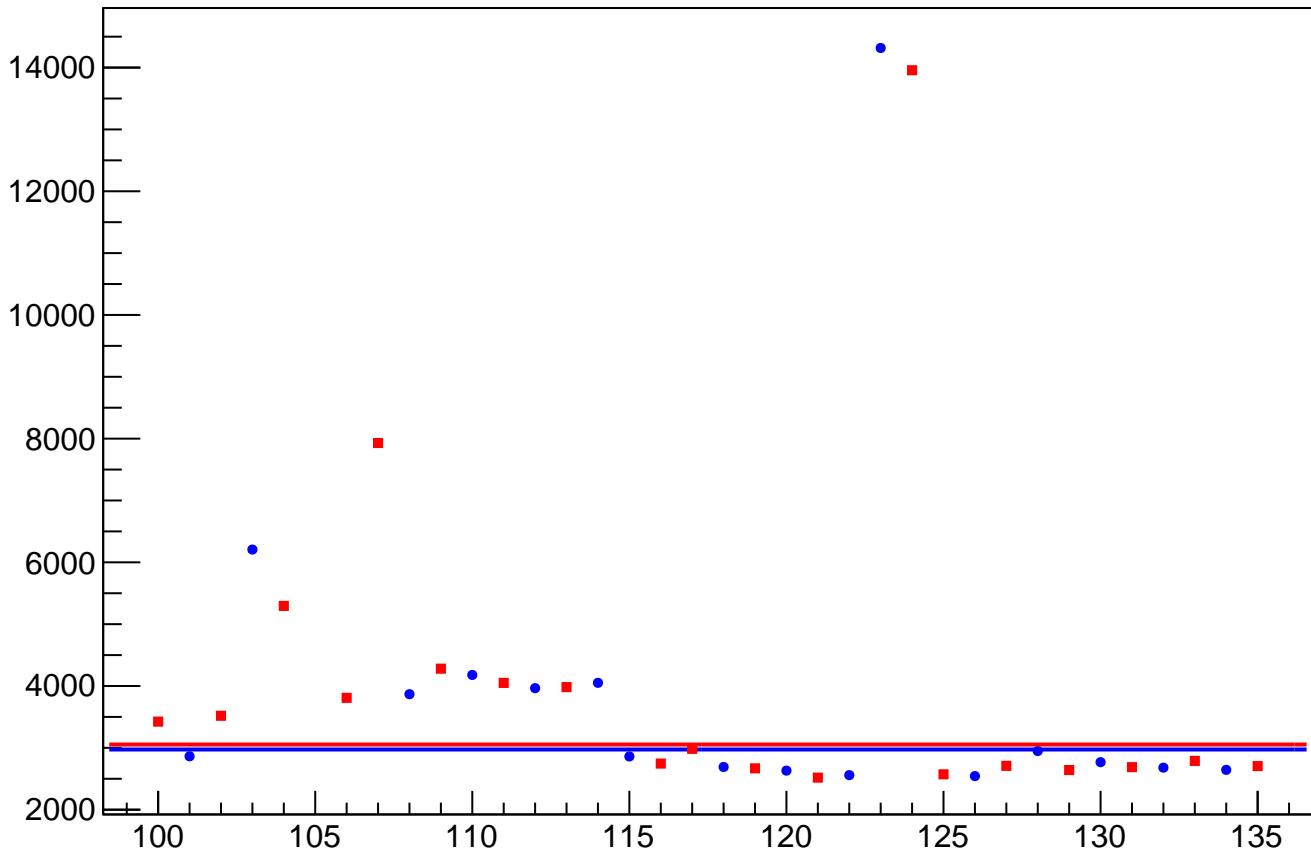
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2290.657+/-1269.945  $\chi^2$ /NDF: 14.5/15

1526.705+/-874.421  $\chi^2$ /NDF: 38.4/34

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

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2973.326+/-0.898  $\chi^2$ /NDF: 613749.7/15

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

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

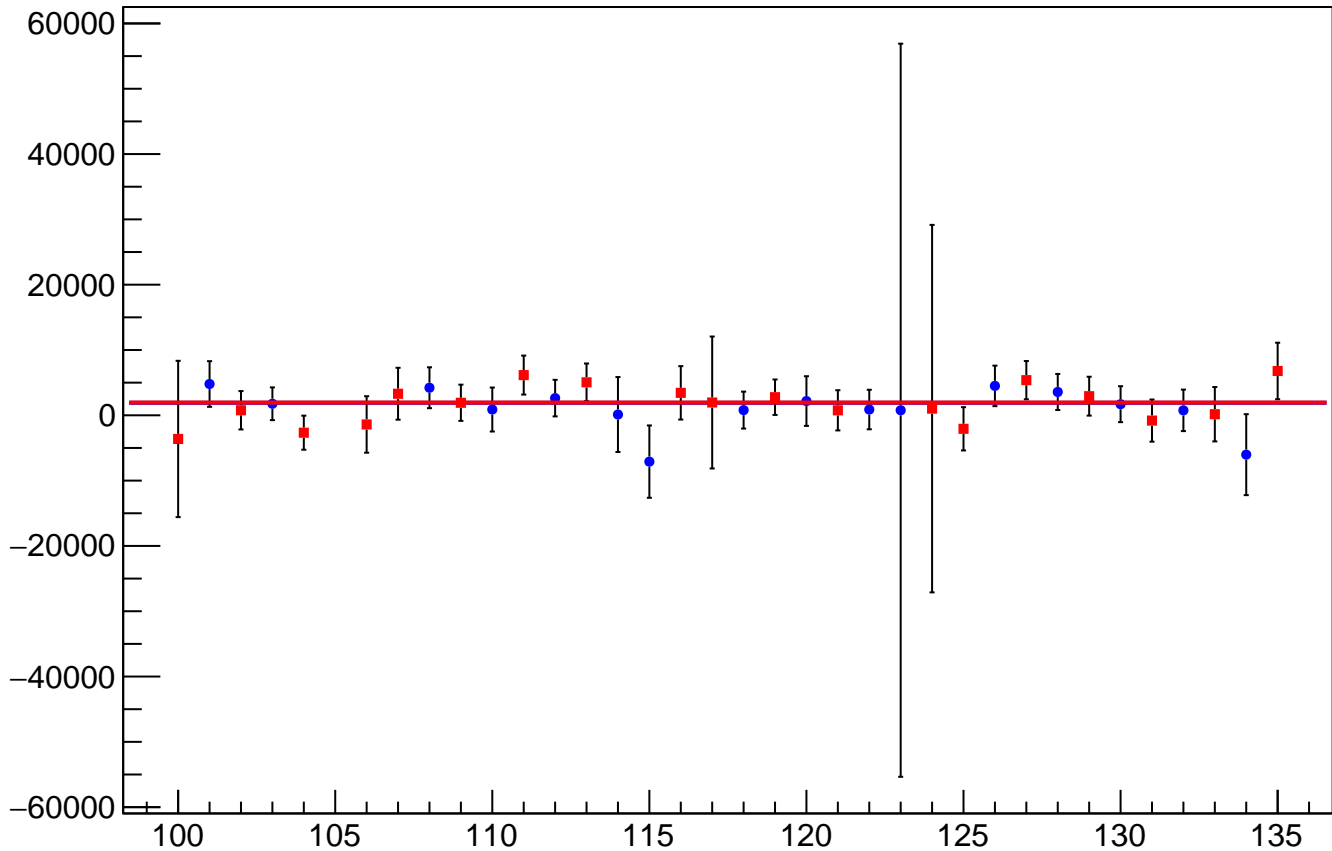
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2973.326+/-0.898  $\chi^2$ /NDF: 613749.7/15

3015.583+/-0.618  $\chi^2$ /NDF: 1621215.7/34

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

# reg\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 1916.469+/-839.775  $\chi^2$ /NDF: 7.2/15

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

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

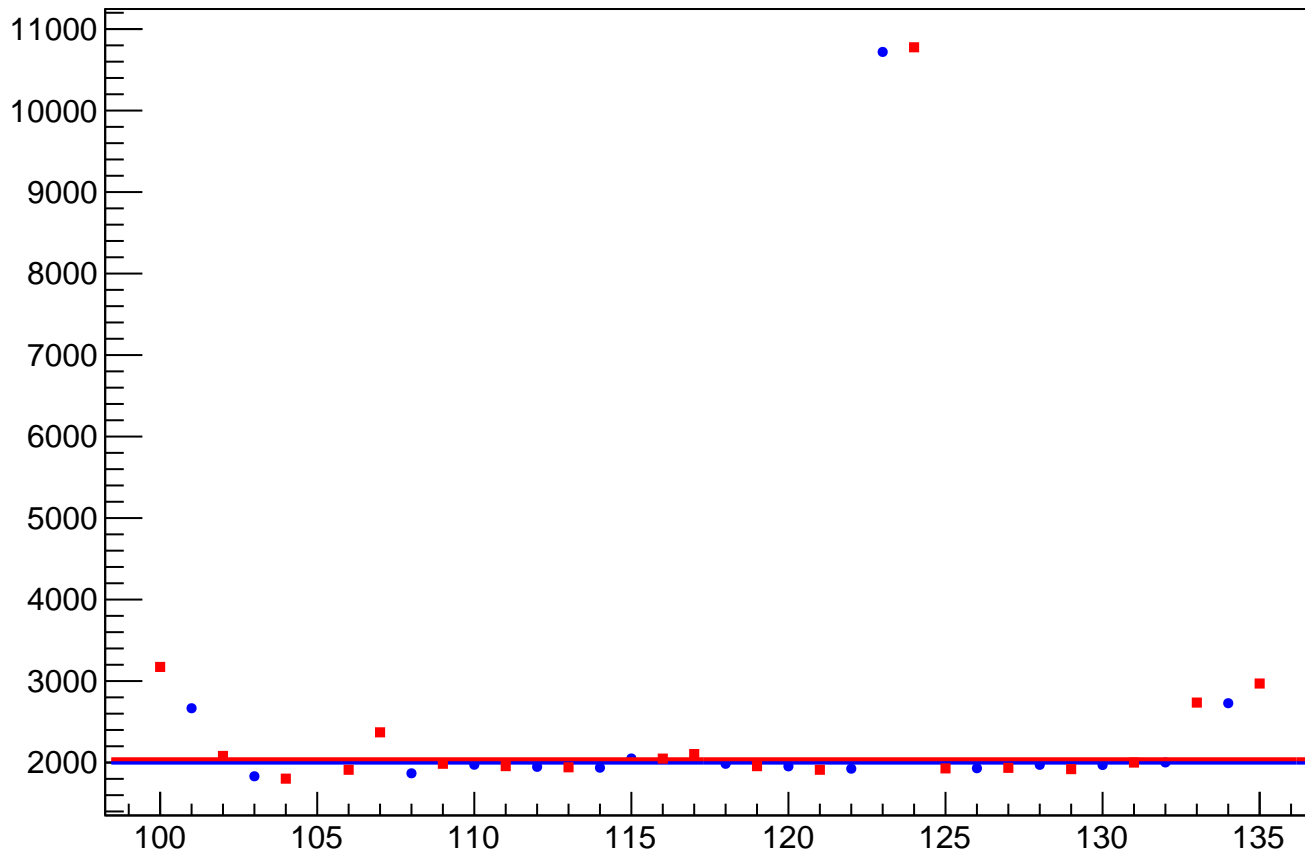
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1916.469+/-839.775  $\chi^2$ /NDF: 7.2/15

1935.089+/-576.651  $\chi^2$ /NDF: 20.1/34

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

# reg\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 1999.098+/-0.594  $\chi^2$ /NDF: 165412.0/15

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

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

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

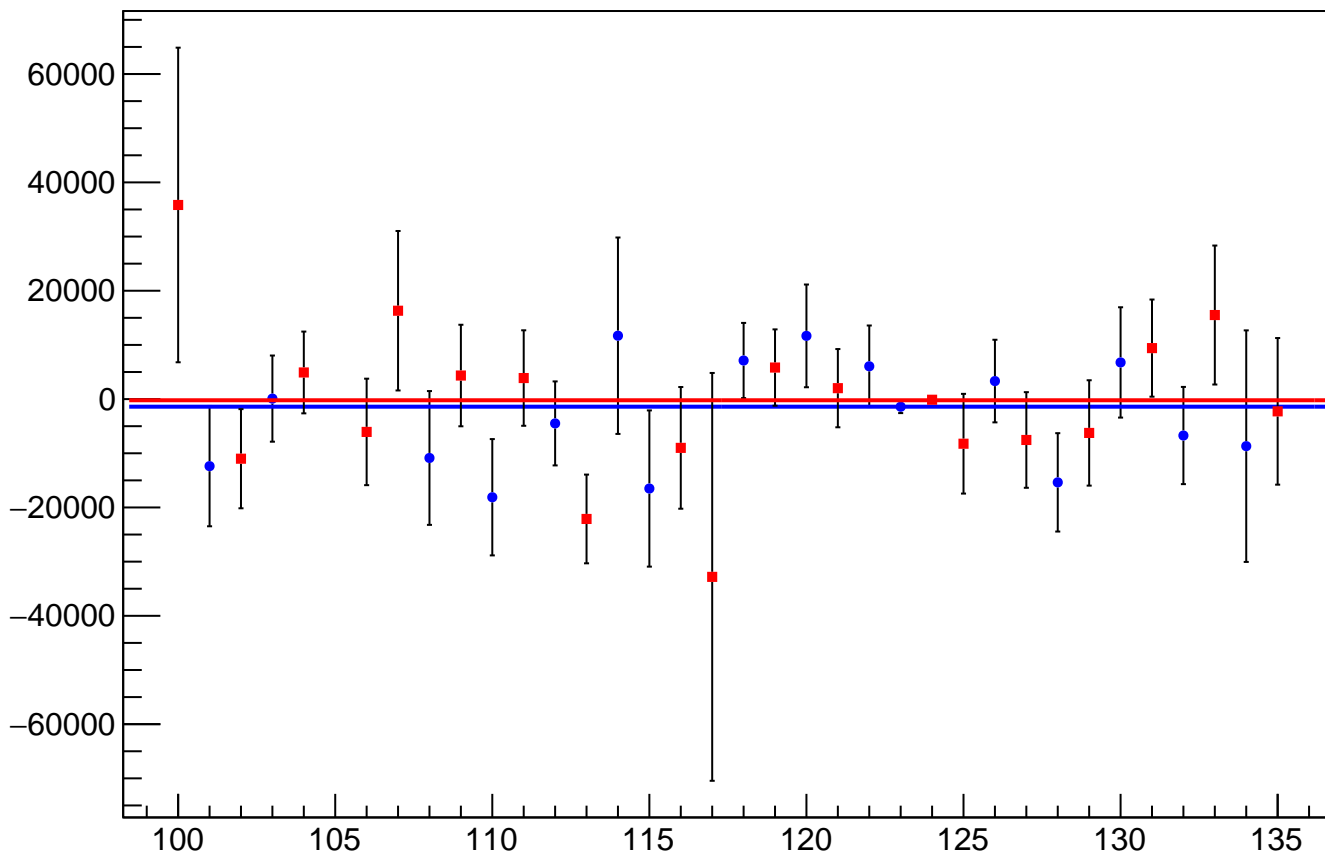
1999.098+/-0.594  $\chi^2$ /NDF: 165412.0/15

2020.997+/-0.408  $\chi^2$ /NDF: 578168.6/34

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



# asym\_atl2\_correction\_mean vs Slug, Sign Corrected



Right In: -1399.499+/-1059.891  $\chi^2$ /NDF: 14.1/15

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

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

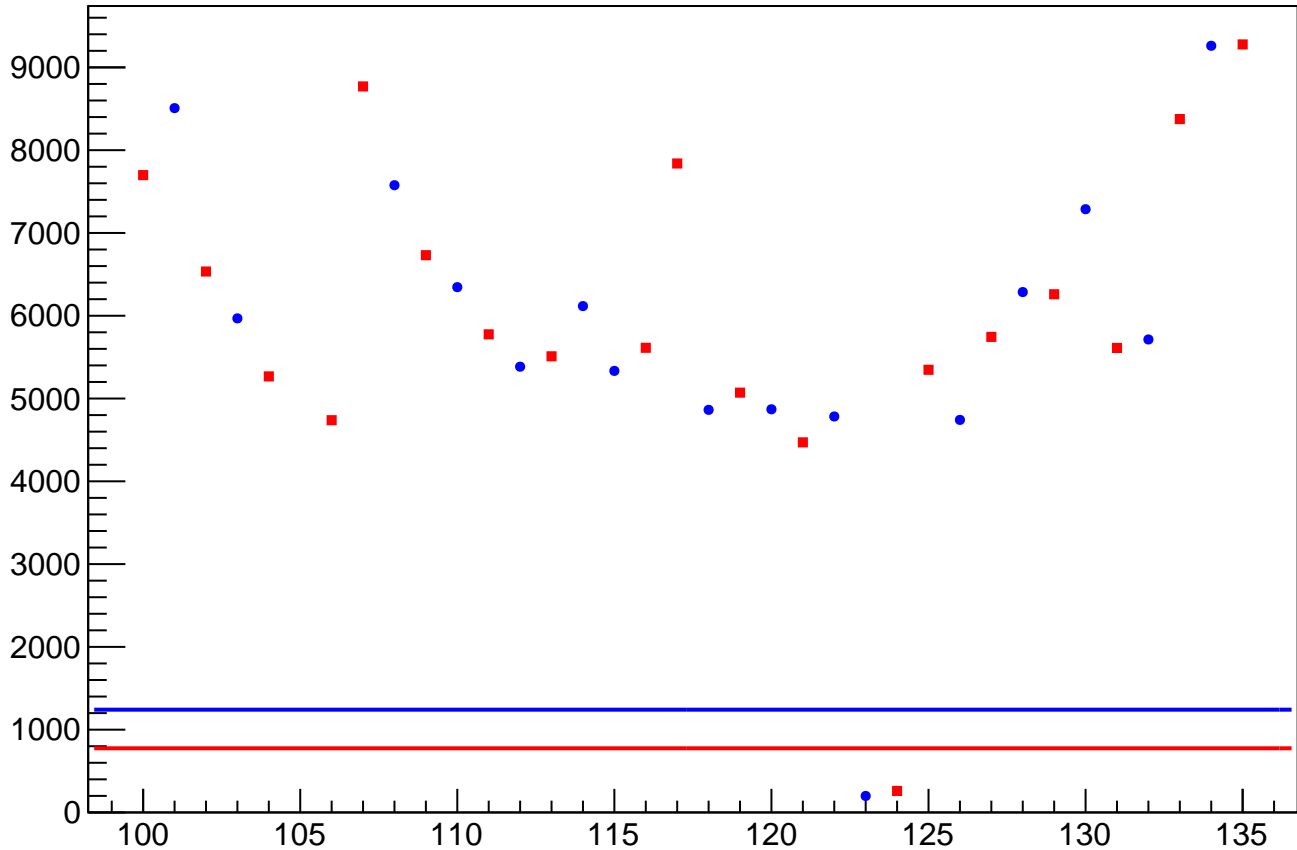
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-1399.499+/-1059.891  $\chi^2$ /NDF: 14.1/15

-570.214+/-581.442  $\chi^2$ /NDF: 34.3/34

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

# asym\_atl2\_correction\_rms vs Slug, Sign Corrected



Right In: 1241.553+/-0.749  $\chi^2$ /NDF: 8794816.1/15

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

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

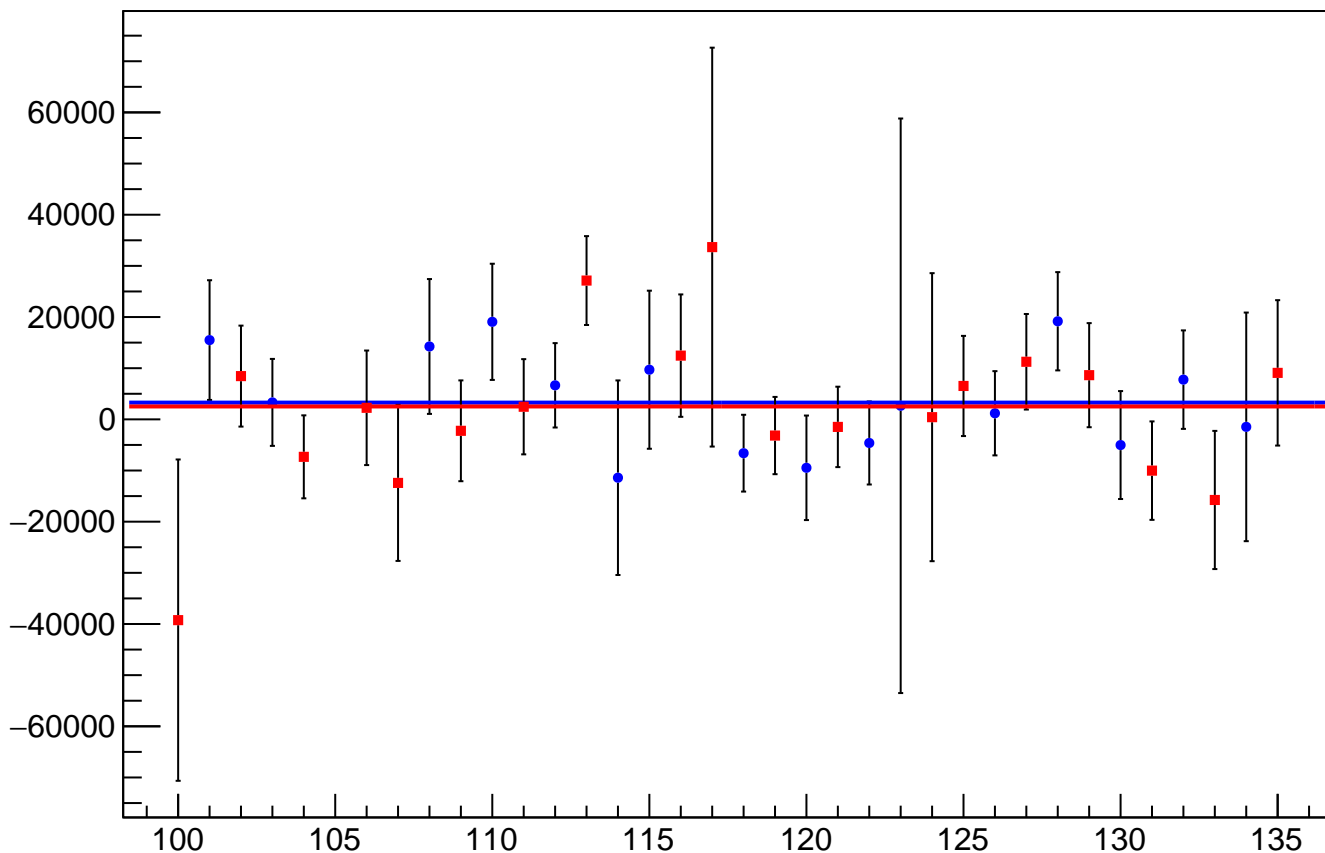
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1241.553+/-0.749  $\chi^2$ /NDF: 8794816.1/15

915.498+/-0.411  $\chi^2$ /NDF: 20259243.2/34

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

# asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 3274.375+/-2612.387  $\chi^2$ /NDF: 12.6/15

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

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

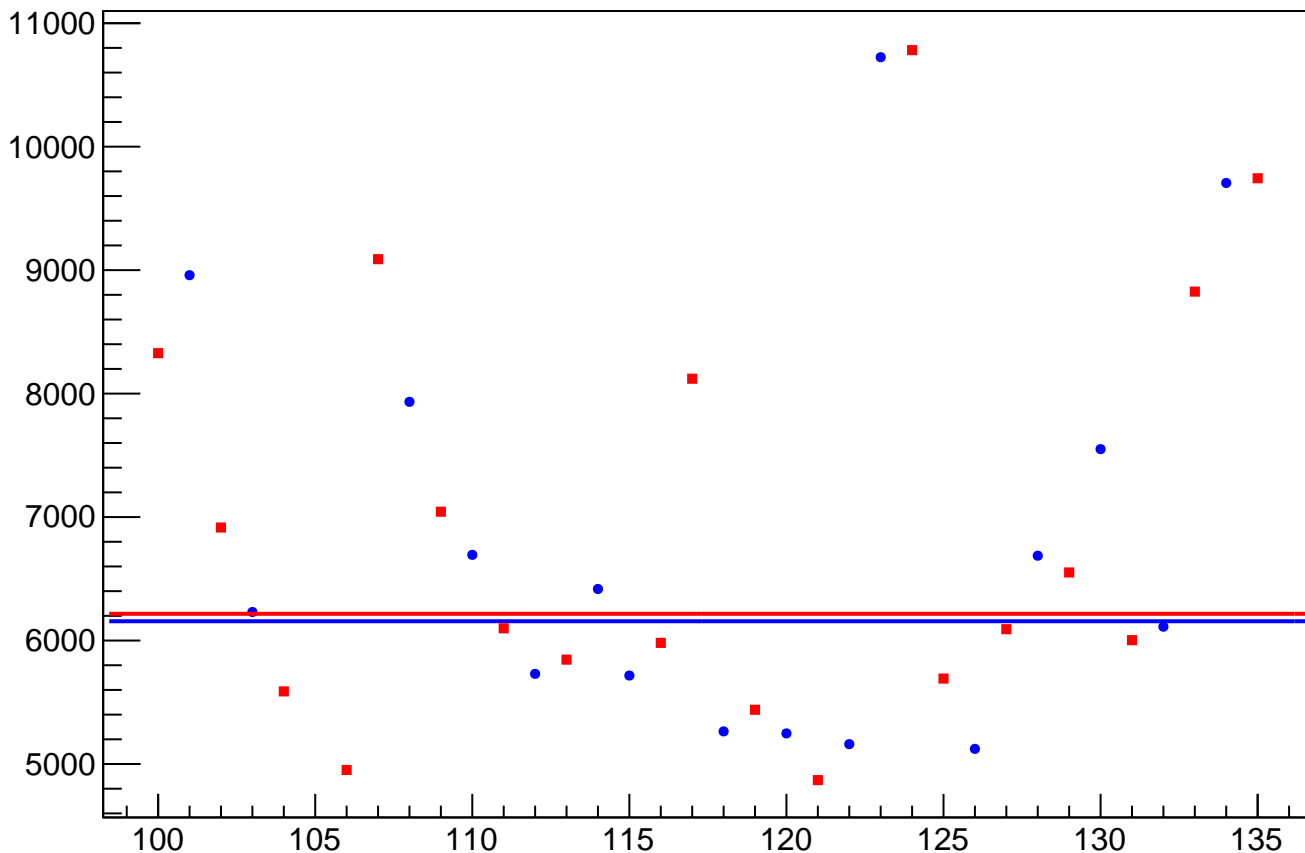
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3274.375+/-2612.387  $\chi^2$ /NDF: 12.6/15

2869.665+/-1779.406  $\chi^2$ /NDF: 32.8/34

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

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 6156.242+/-1.847  $\chi^2$ /NDF: 373626.3/15

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

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

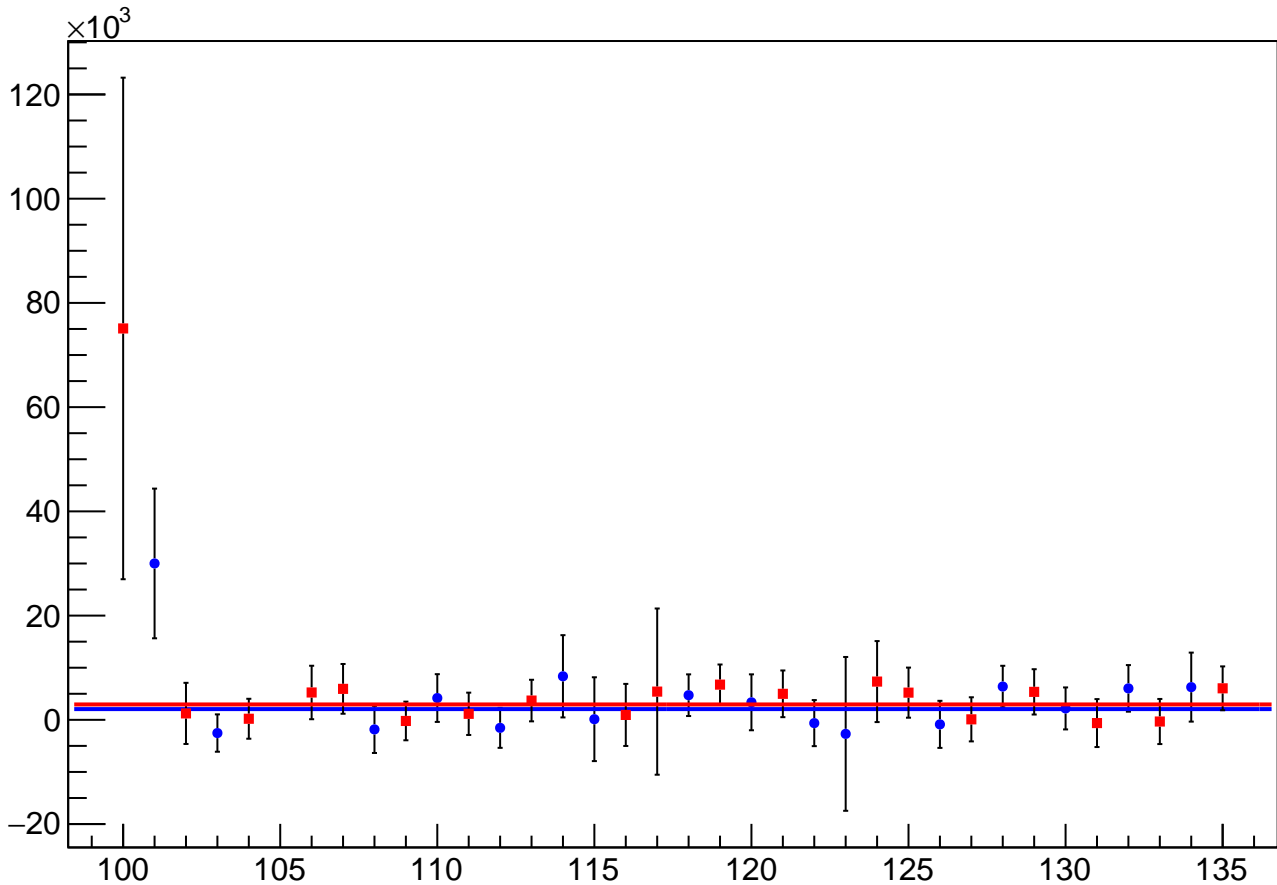
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

6156.242+/-1.847  $\chi^2$ /NDF: 373626.3/15

6188.636+/-1.258  $\chi^2$ /NDF: 865088.5/34

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

# reg\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2059.732+/-1214.192  $\chi^2$ /NDF: 11.7/15

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

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

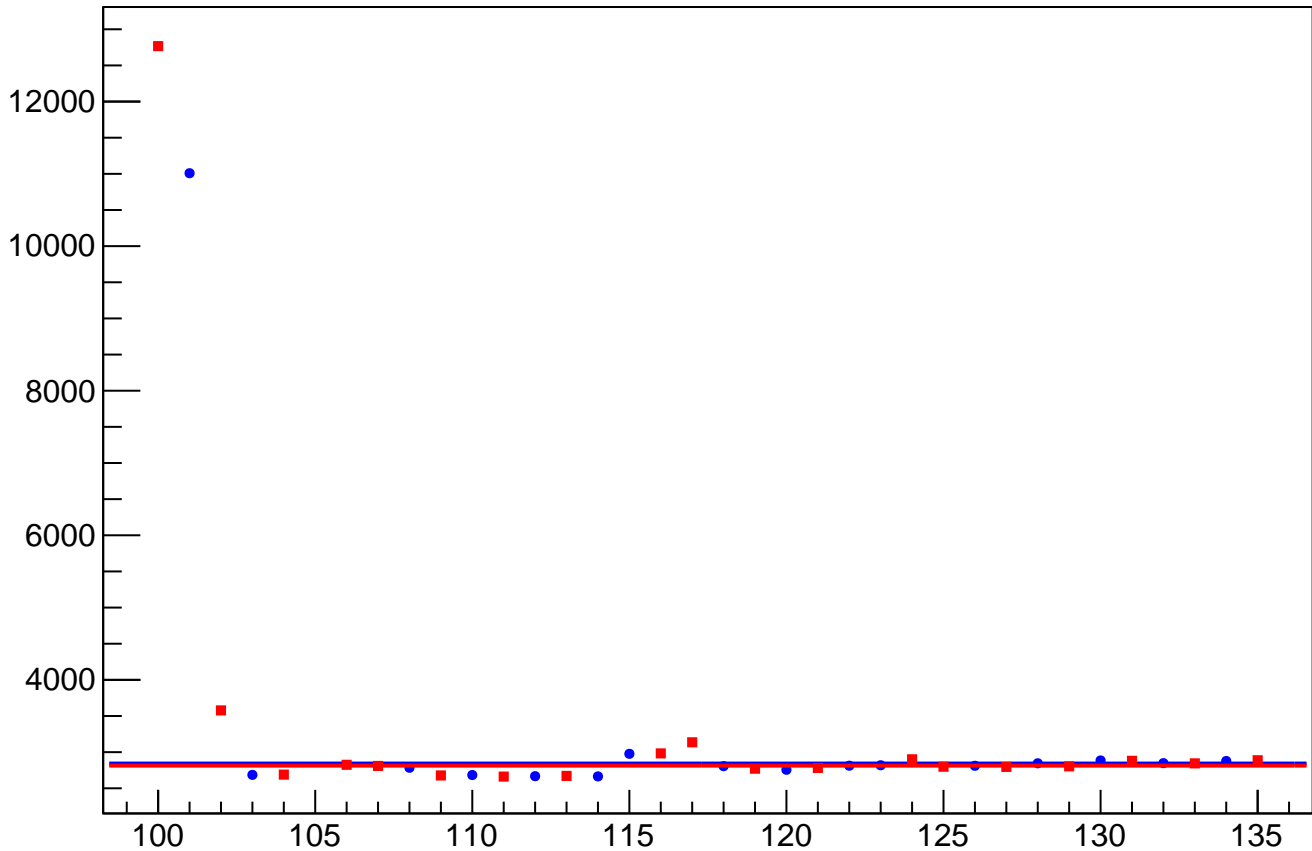
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2059.732+/-1214.192  $\chi^2$ /NDF: 11.7/15

2556.017+/-808.760  $\chi^2$ /NDF: 20.8/34

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

# reg\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2842.127+/-0.859  $\chi^2$ /NDF: 660094.8/15

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

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

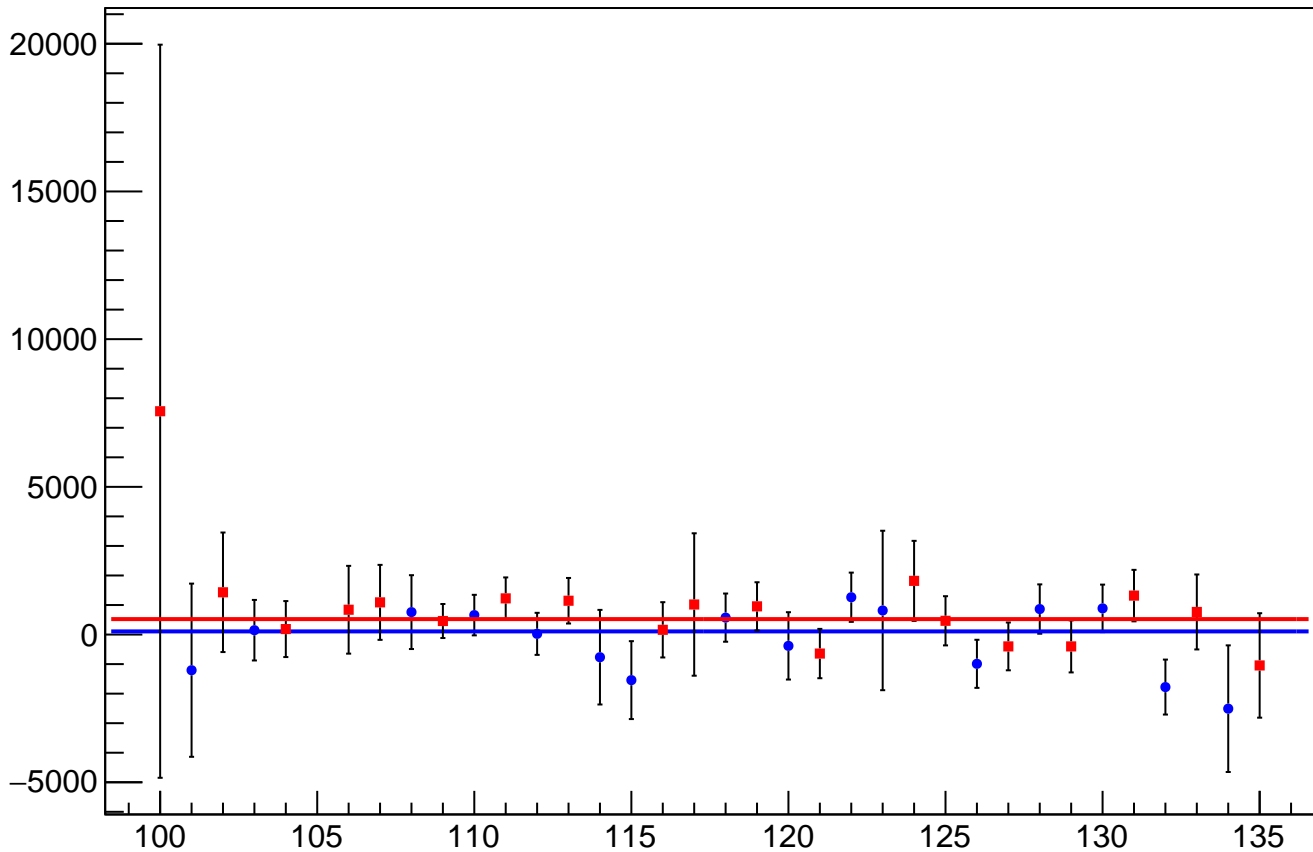
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2842.127+/-0.859  $\chi^2$ /NDF: 660094.8/15

2826.324+/-0.572  $\chi^2$ /NDF: 794579.3/34

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

# asym\_atr1\_correction\_mean vs Slug, Sign Corrected



Right In: 106.870+/-246.300  $\chi^2$ /NDF: 14.7/15

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

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

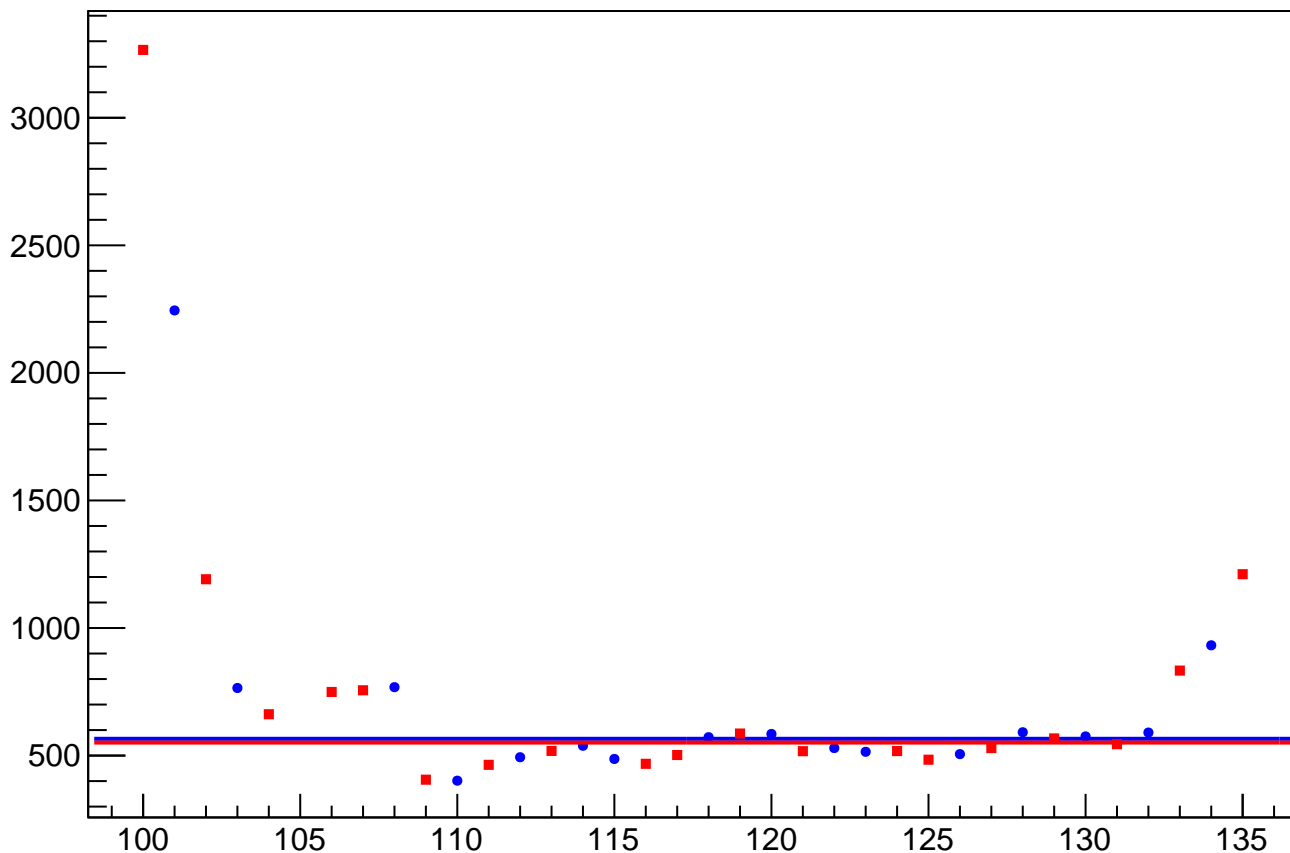
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

106.870+/-246.300  $\chi^2$ /NDF: 14.7/15

337.400+/-164.574  $\chi^2$ /NDF: 26.2/34

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

# asym\_atr1\_correction\_rms vs Slug, Sign Corrected



Right In: 565.812+/-0.174  $\chi^2$ /NDF: 1004973.6/15

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

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

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

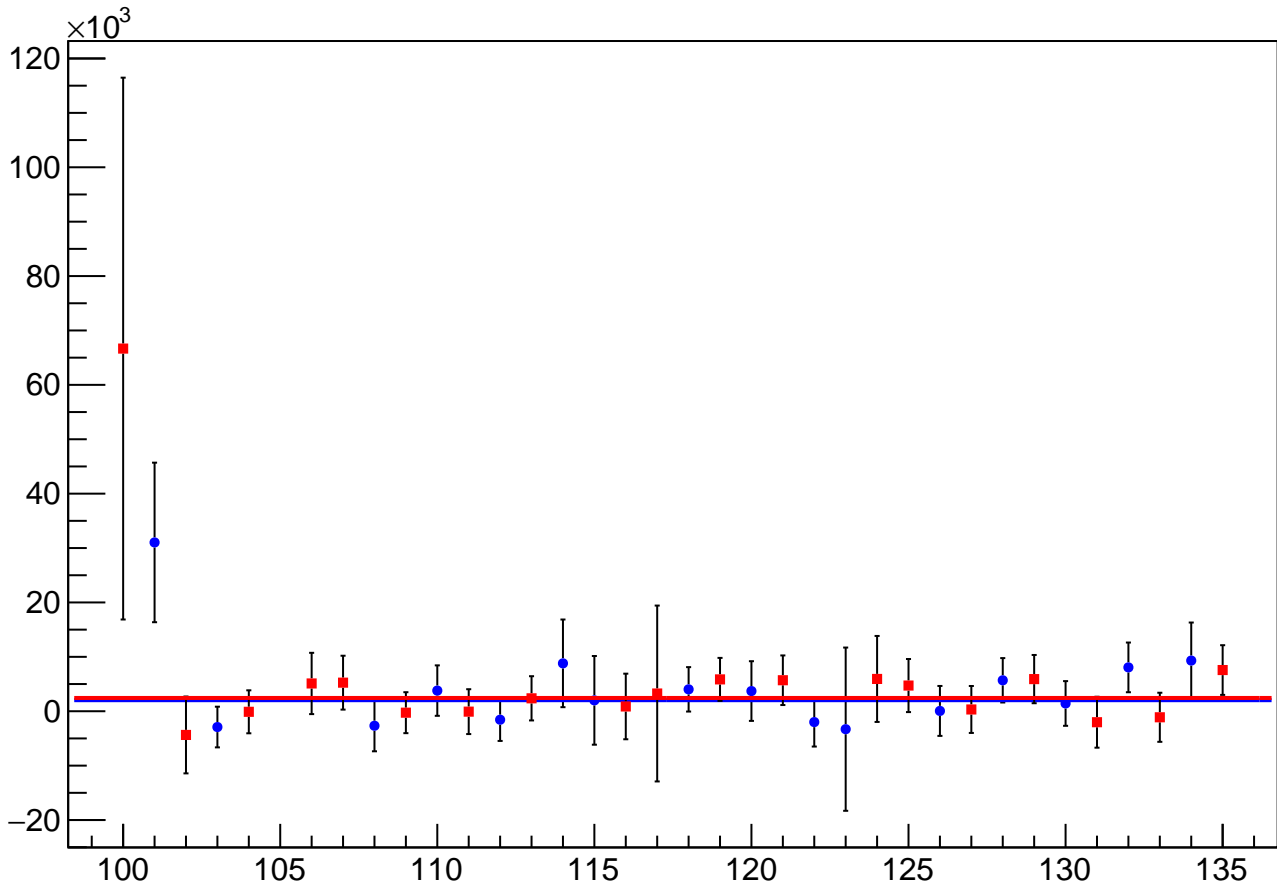
565.812+/-0.174  $\chi^2$ /NDF: 1004973.6/15

557.612+/-0.116  $\chi^2$ /NDF: 1999280.8/34

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



# asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2030.342+/-1243.860  $\chi^2$ /NDF: 13.4/15

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

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

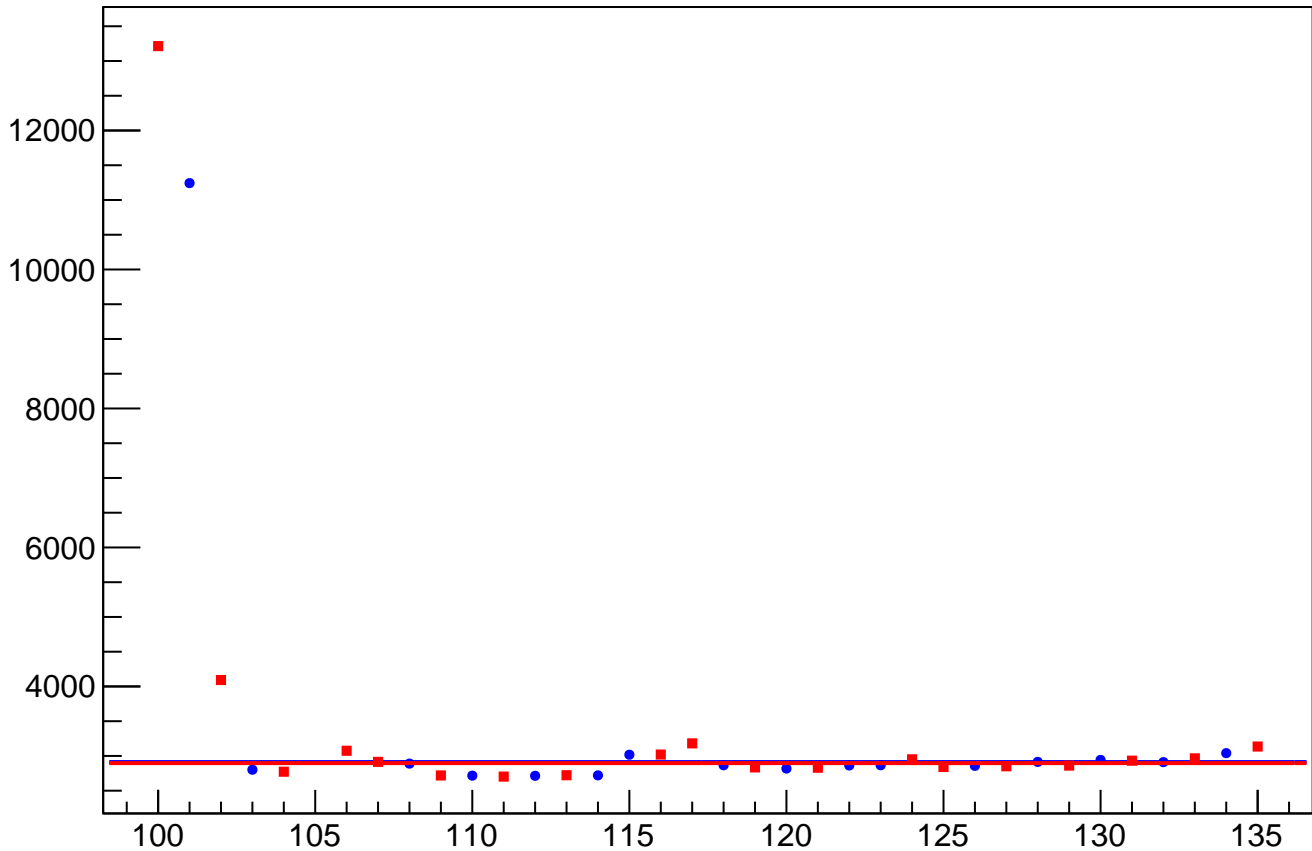
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2030.342+/-1243.860  $\chi^2$ /NDF: 13.4/15

2256.847+/-832.837  $\chi^2$ /NDF: 23.3/34

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

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2911.837+/-0.880  $\chi^2/\text{NDF}$ : 659393.2/15

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

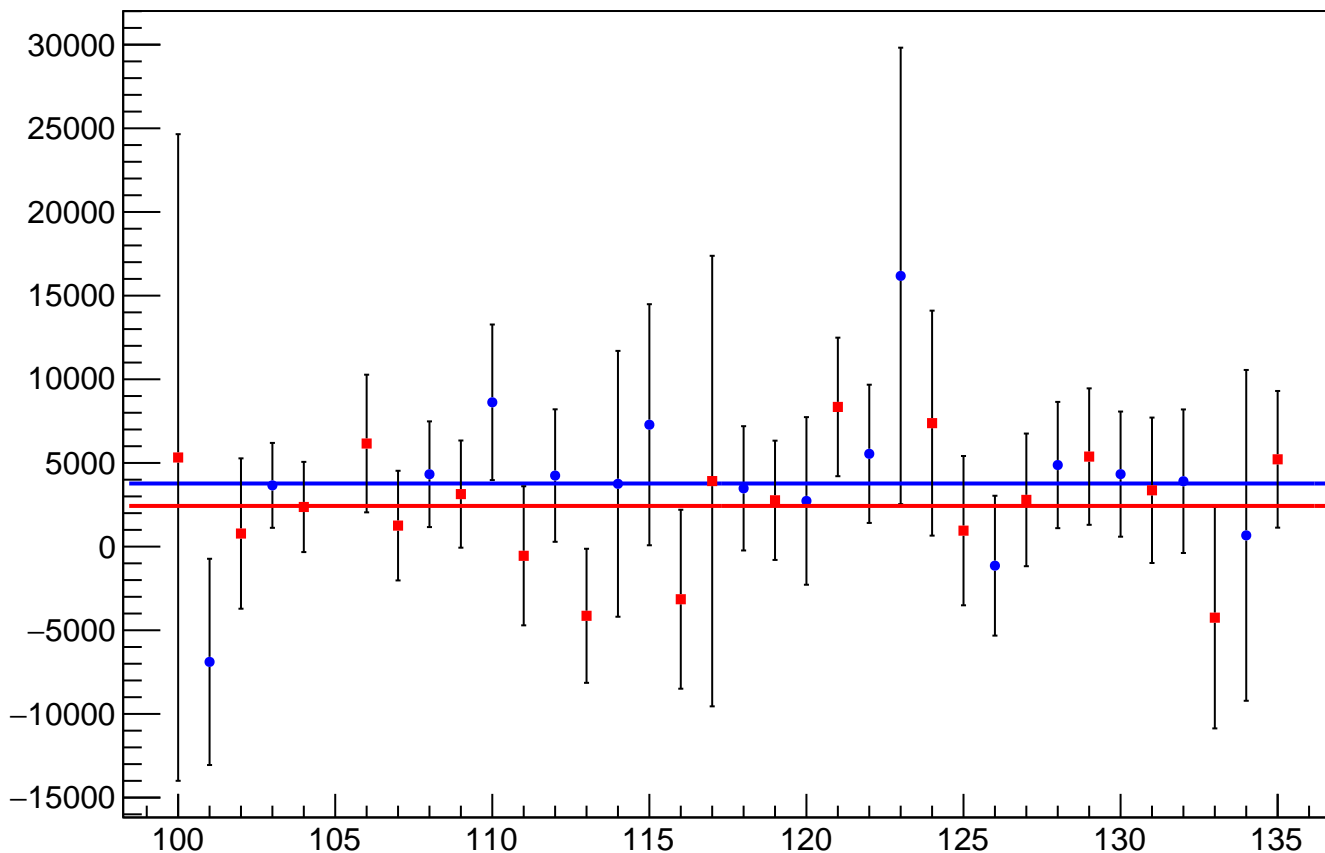
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2911.837+/-0.880  $\chi^2/\text{NDF}$ : 659393.2/15

2903.610+/-0.589  $\chi^2/\text{NDF}$ : 828314.3/34

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

# reg\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 3771.801+/-1074.043  $\chi^2$ /NDF: 7.0/15

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

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

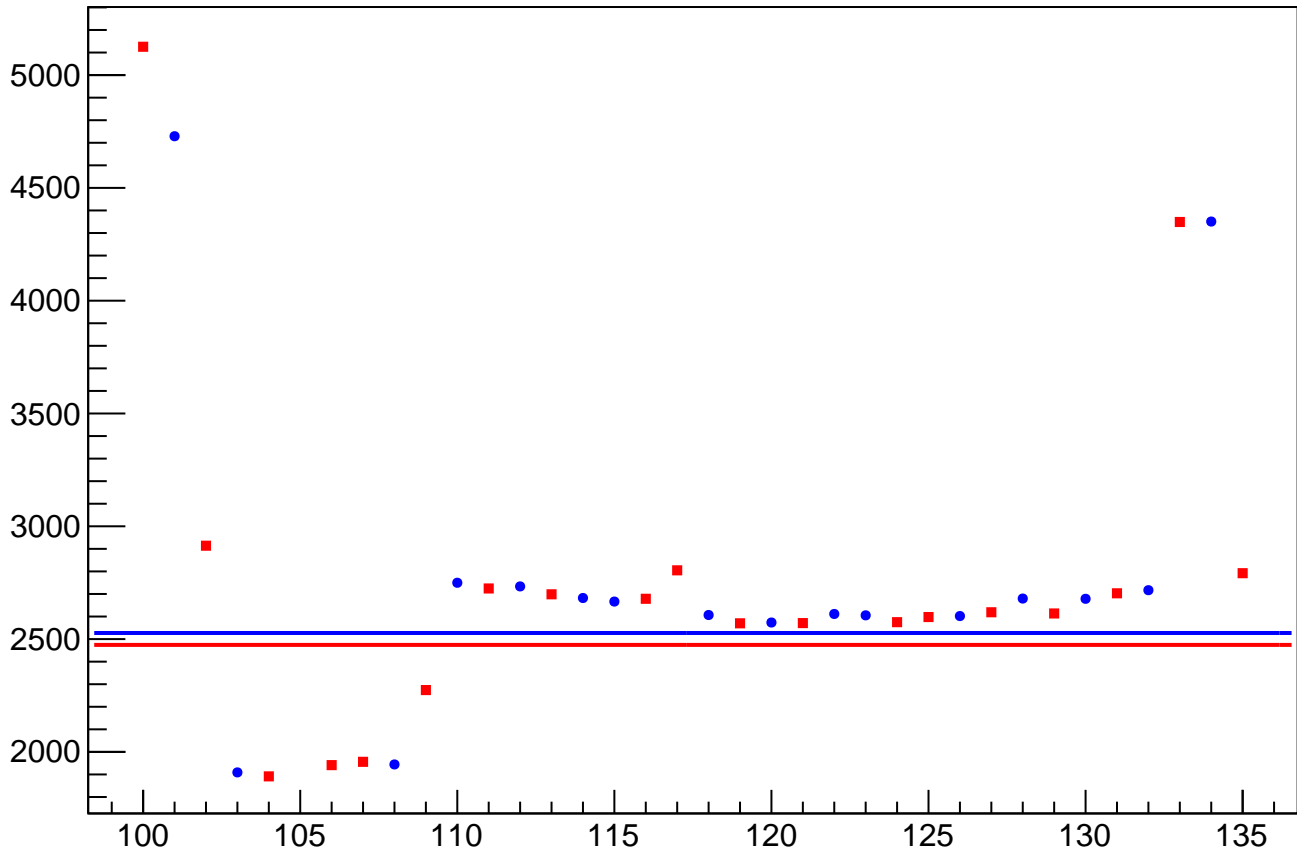
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3771.801+/-1074.043  $\chi^2$ /NDF: 7.0/15

3031.511+/-718.697  $\chi^2$ /NDF: 18.1/34

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

# reg\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 2527.091+/-0.759  $\chi^2$ /NDF: 534674.6/15

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

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

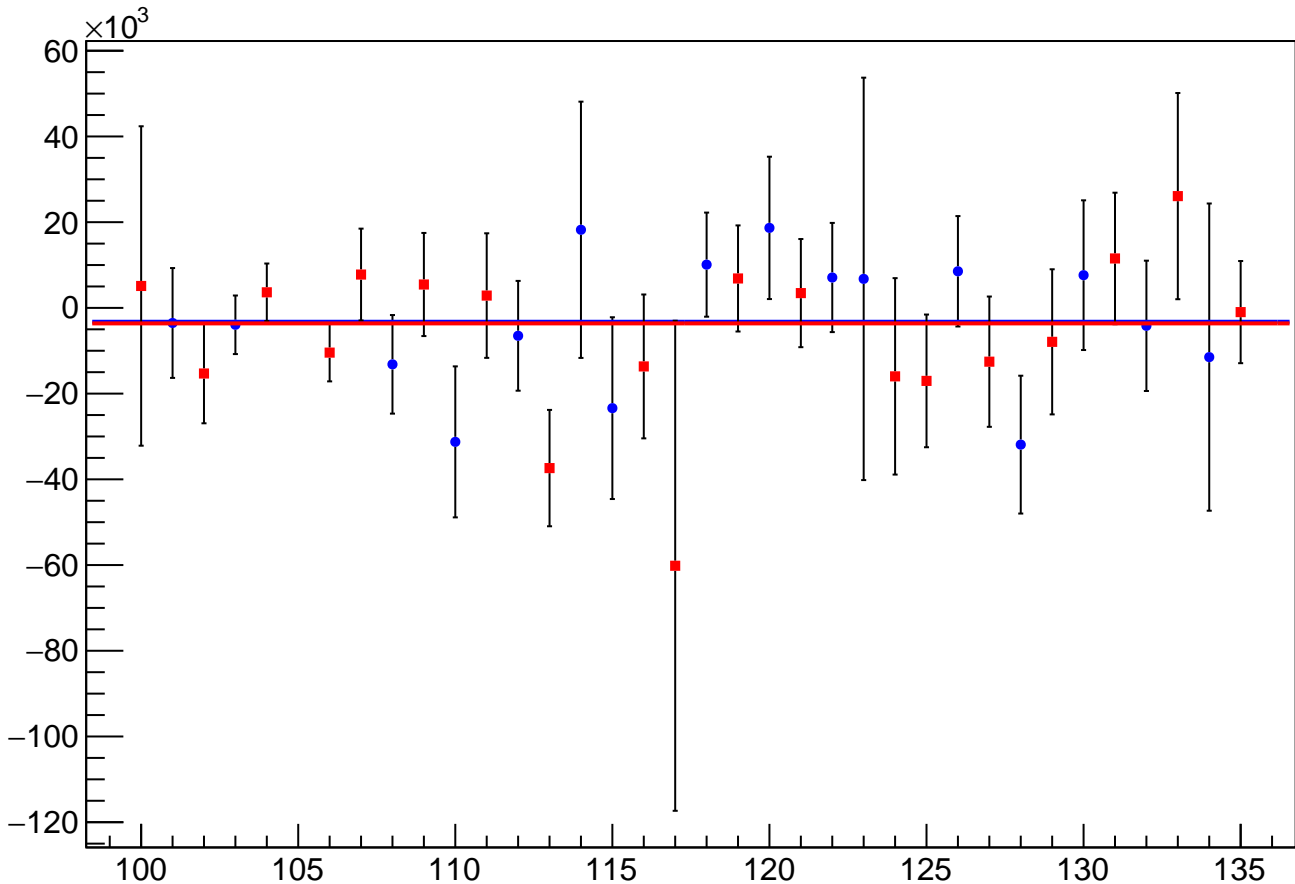
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2527.091+/-0.759  $\chi^2$ /NDF: 534674.6/15

2497.893+/-0.508  $\chi^2$ /NDF: 984329.3/34

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

# asym\_atr2\_correction\_mean vs Slug, Sign Corrected



Right In:  $-3234.247 \pm 3470.596$   $\chi^2/\text{NDF}: 12.9/15$

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

Right Out:  $-3618.598 \pm 2864.558$   $\chi^2/\text{NDF}: 17.7/18$

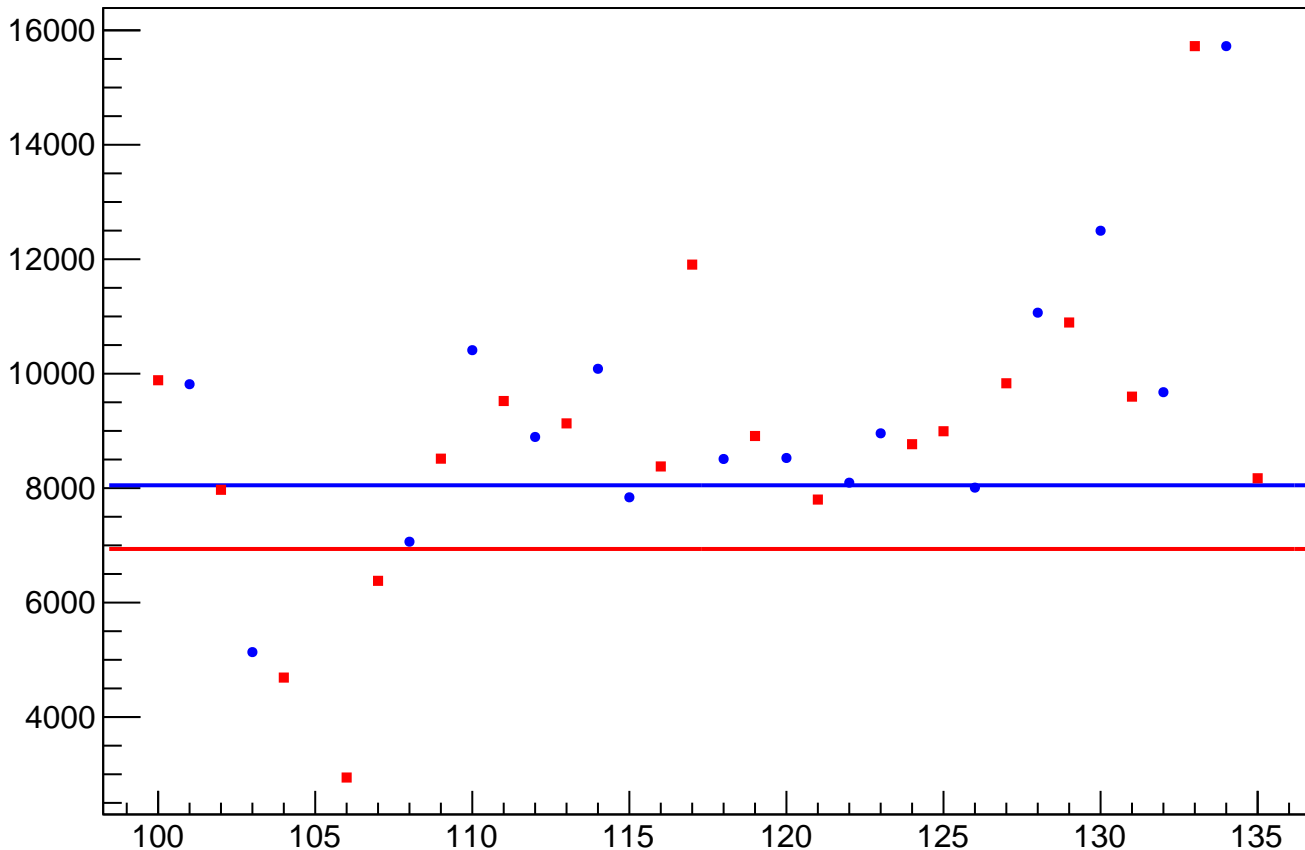
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-3234.247 \pm 3470.596$   $\chi^2/\text{NDF}: 12.9/15$

$-3462.857 \pm 2209.232$   $\chi^2/\text{NDF}: 30.6/34$

$-3618.598 \pm 2864.558$   $\chi^2/\text{NDF}: 17.7/18$

# asym\_atr2\_correction\_rms vs Slug, Sign Corrected



Right In: 8049.849+/-2.454  $\chi^2$ /NDF: 790715.2/15

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

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

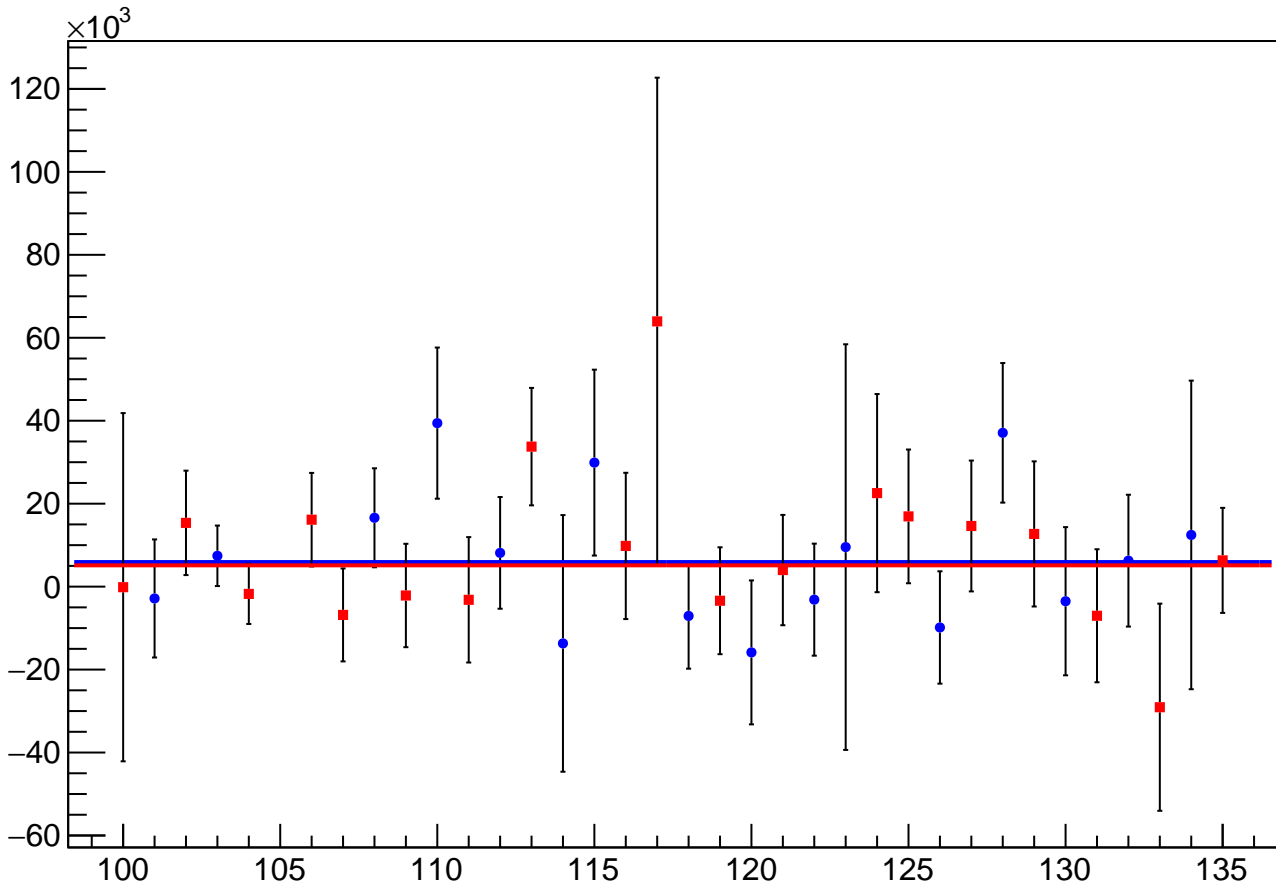
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

8049.849+/-2.454  $\chi^2$ /NDF: 790715.2/15

7388.002+/-1.562  $\chi^2$ /NDF: 2697535.8/34

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

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 5923.643+/-3663.067  $\chi^2$ /NDF: 14.3/15

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

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

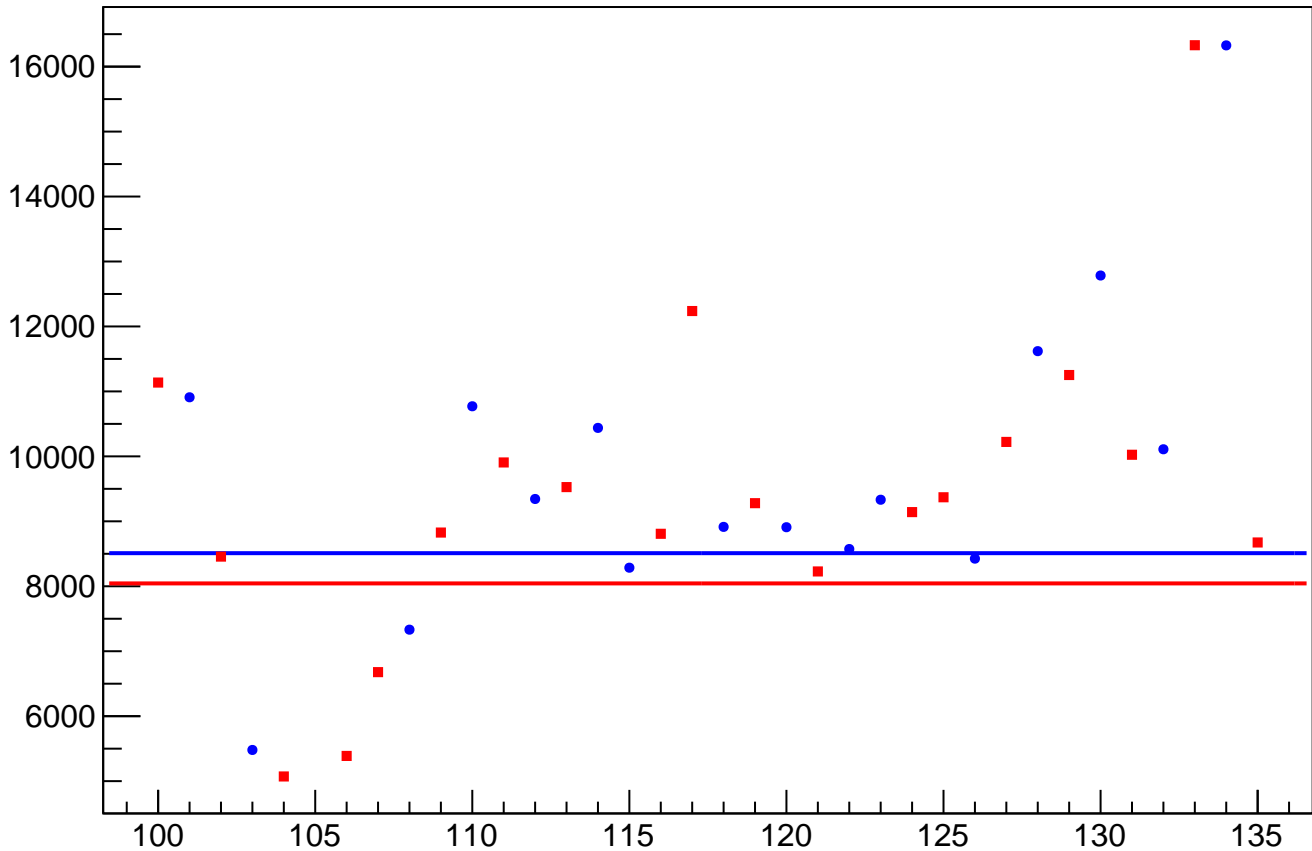
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5923.643+/-3663.067  $\chi^2$ /NDF: 14.3/15

5476.196+/-2412.414  $\chi^2$ /NDF: 28.4/34

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

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 8509.618+/-2.590  $\chi^2/\text{NDF}$ : 763205.2/15

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

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

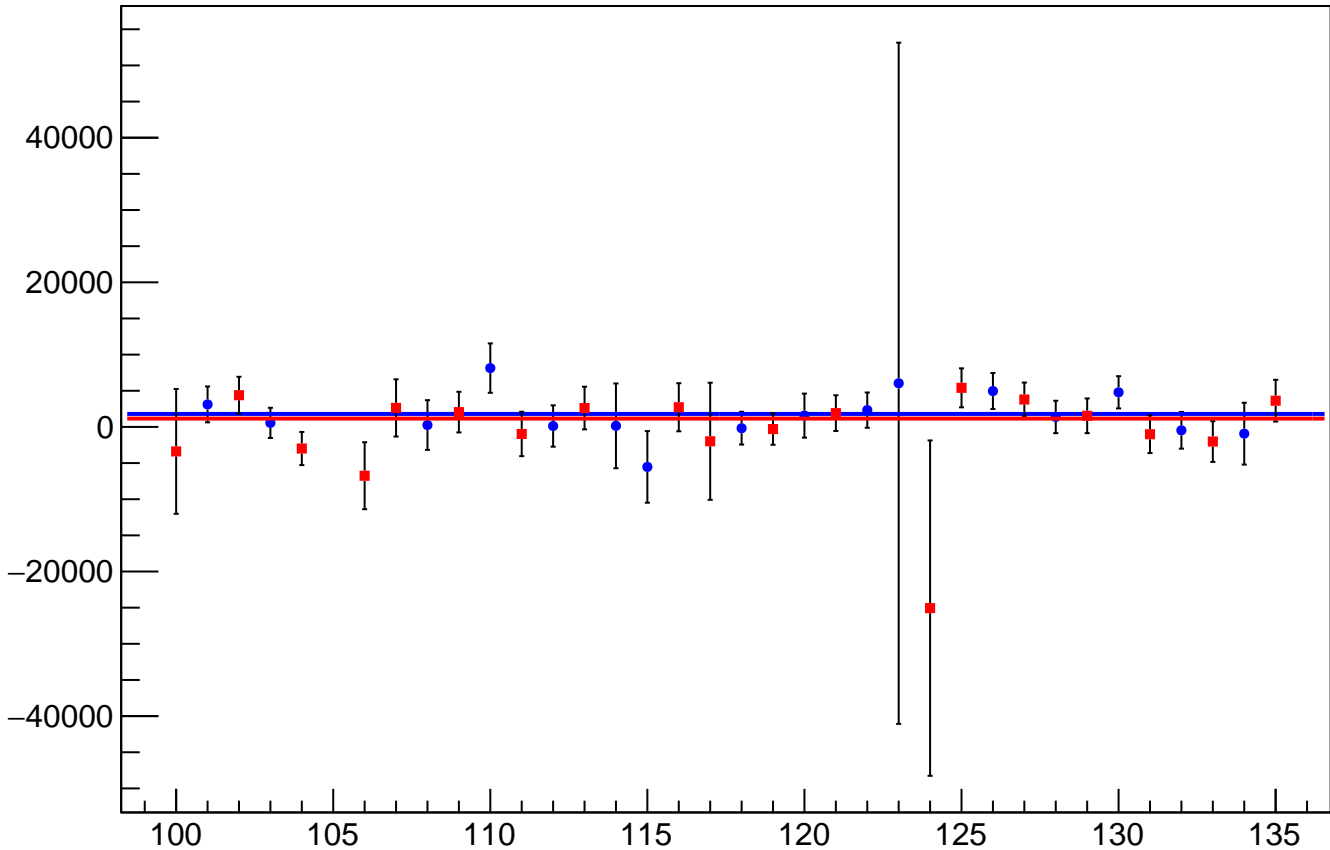
8509.618+/-2.590  $\chi^2/\text{NDF}$ : 763205.2/15

8245.992+/-1.706  $\chi^2/\text{NDF}$ : 1742697.6/34

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



# reg\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 1797.427+/-707.606  $\chi^2$ /NDF: 12.4/15

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

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

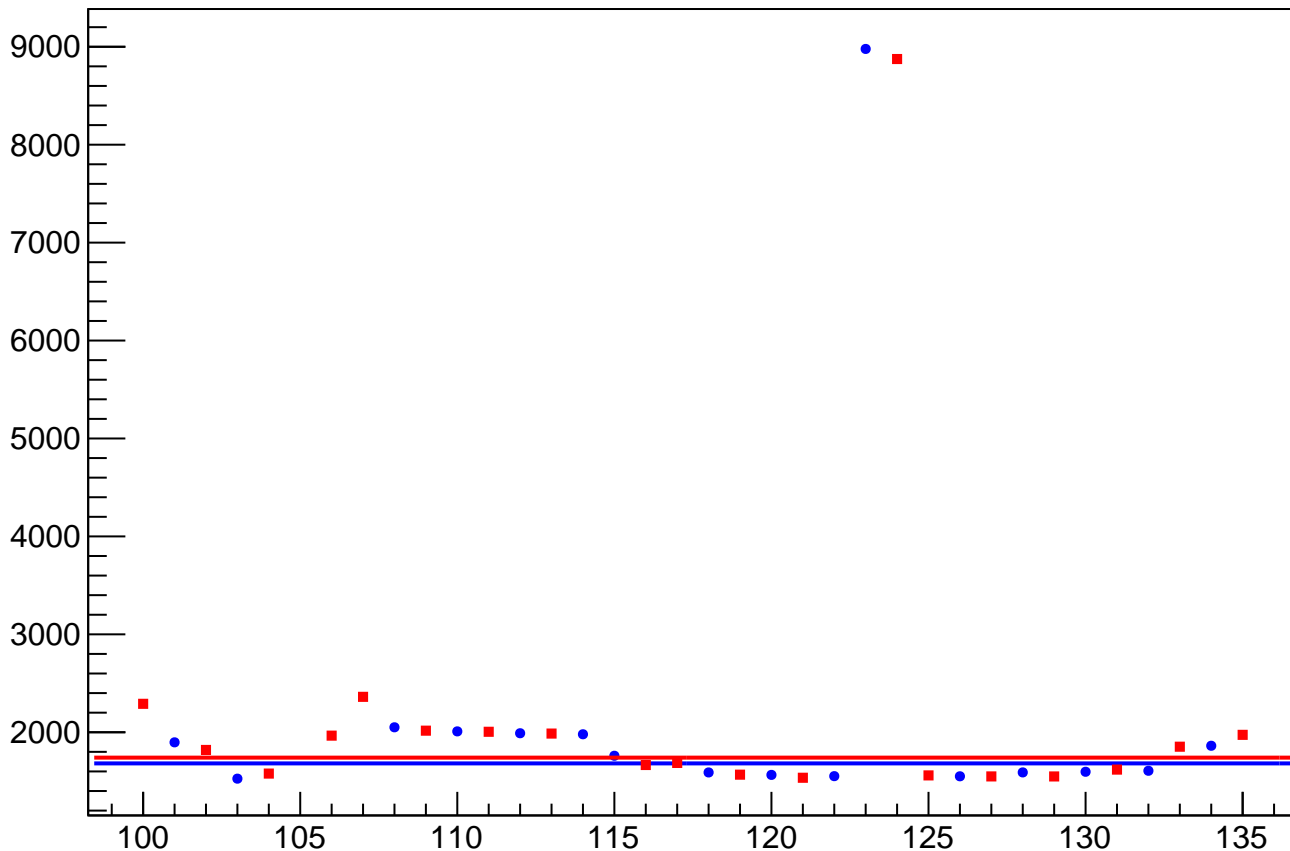
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1797.427+/-707.606  $\chi^2$ /NDF: 12.4/15

1460.129+/-488.980  $\chi^2$ /NDF: 30.5/34

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

# reg\_asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 1682.044+/-0.500  $\chi^2$ /NDF: 173521.4/15

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

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

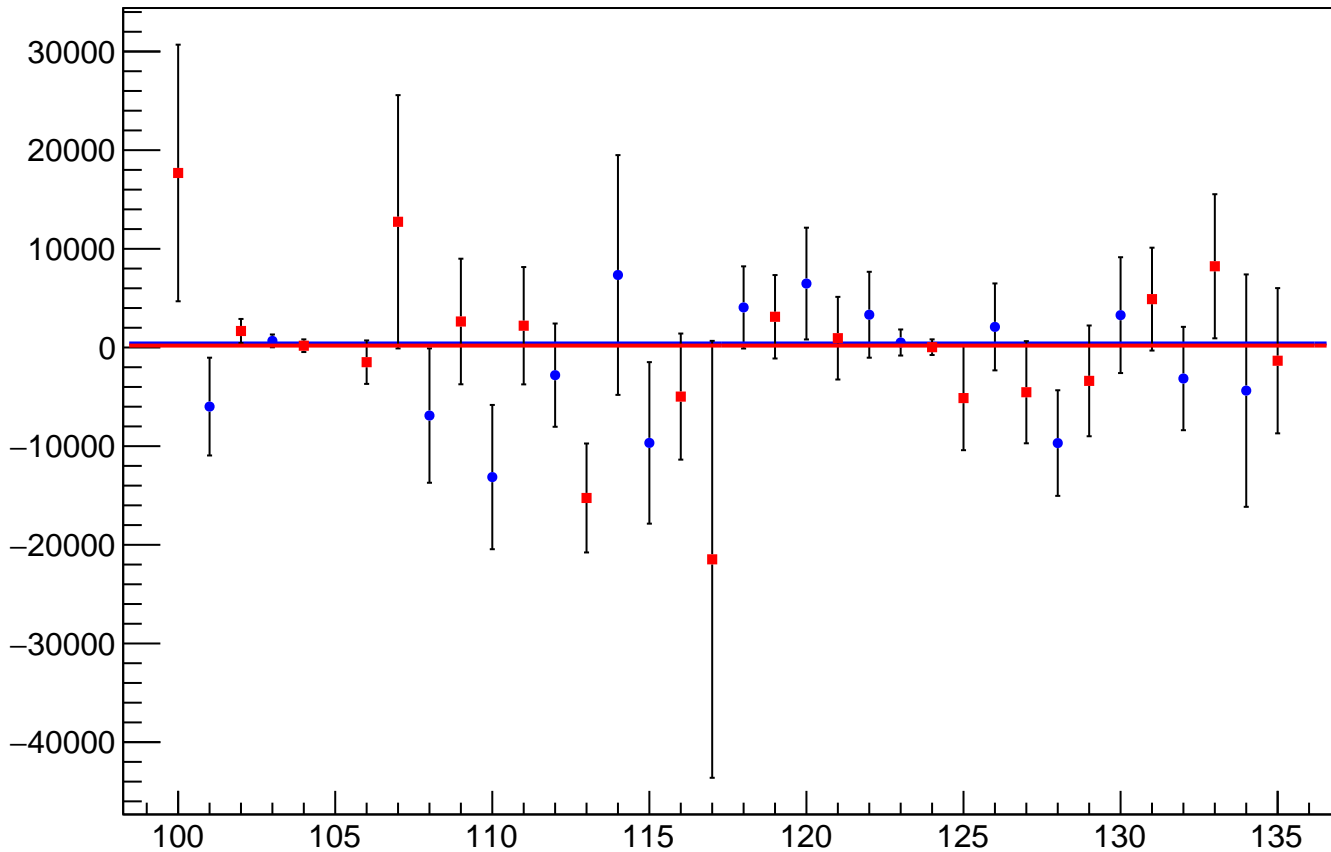
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1682.044+/-0.500  $\chi^2$ /NDF: 173521.4/15

1712.949+/-0.345  $\chi^2$ /NDF: 577448.0/34

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

# asym\_atl\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 406.206+/-543.131  $\chi^2$ /NDF: 15.6/15

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

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

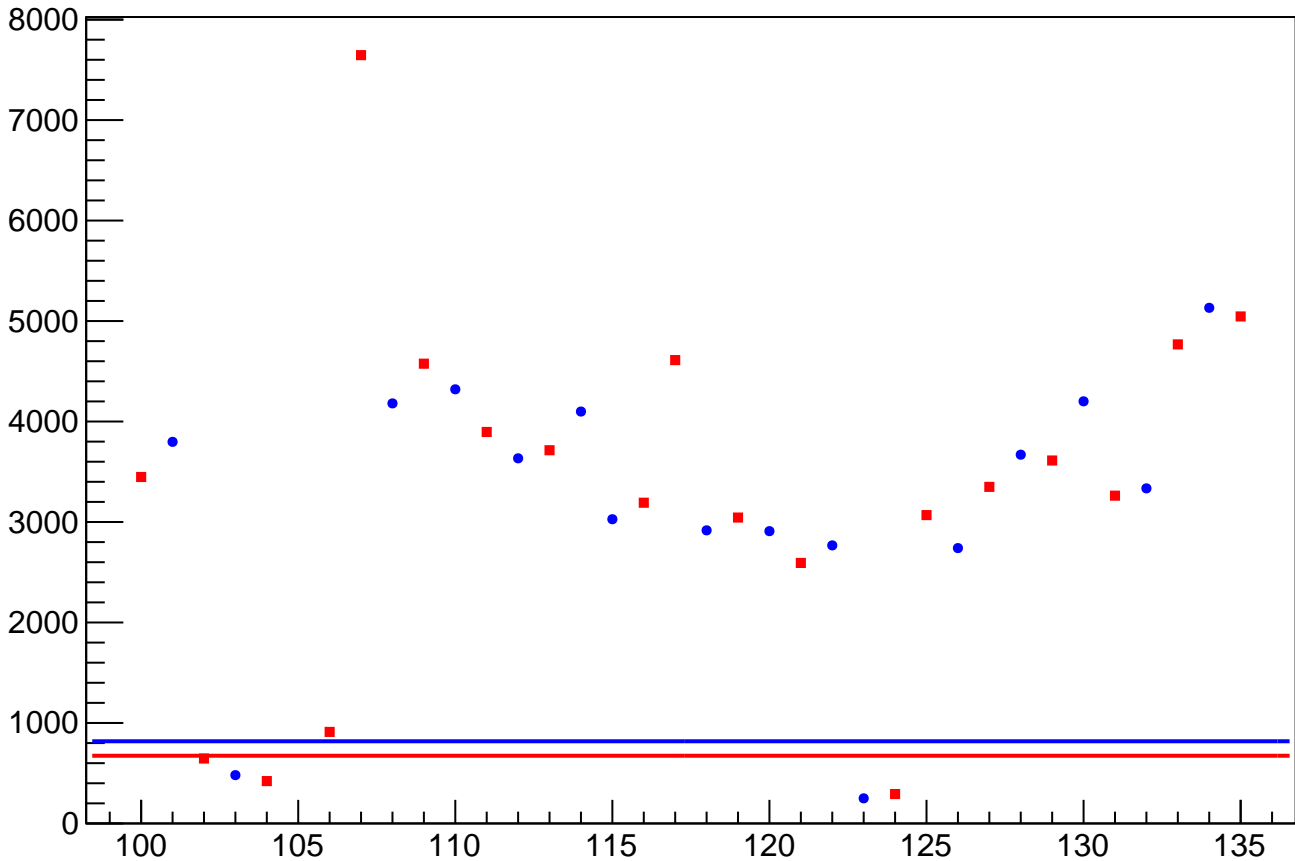
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

406.206+/-543.131  $\chi^2$ /NDF: 15.6/15

276.214+/-338.945  $\chi^2$ /NDF: 35.1/34

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

# asym\_atl\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 817.859+/-0.384  $\chi^2$ /NDF: 6974933.6/15

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

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

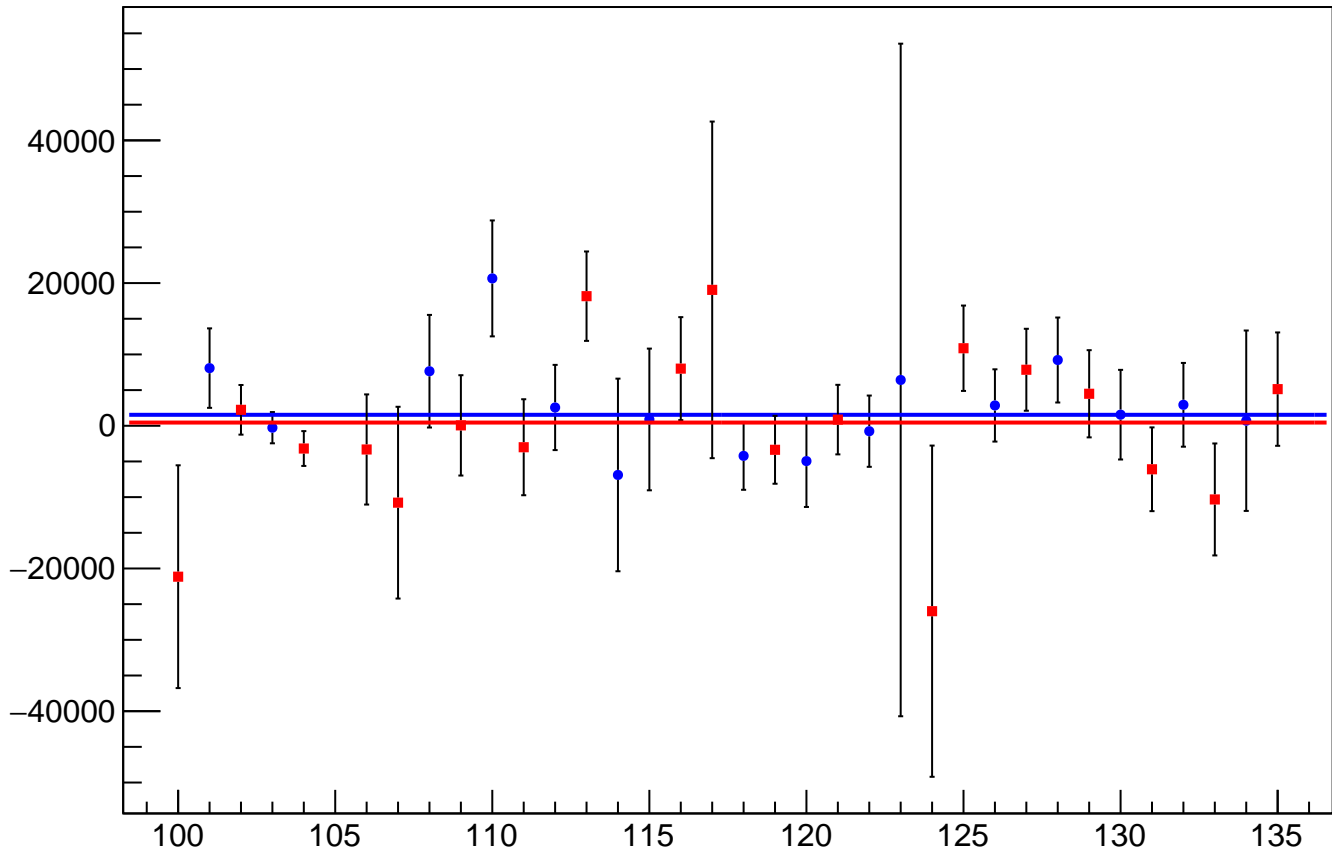
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

817.859+/-0.384  $\chi^2$ /NDF: 6974933.6/15

729.998+/-0.240  $\chi^2$ /NDF: 15226013.9/34

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

# asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 1537.710+/-1345.130  $\chi^2$ /NDF: 13.1/15

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

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

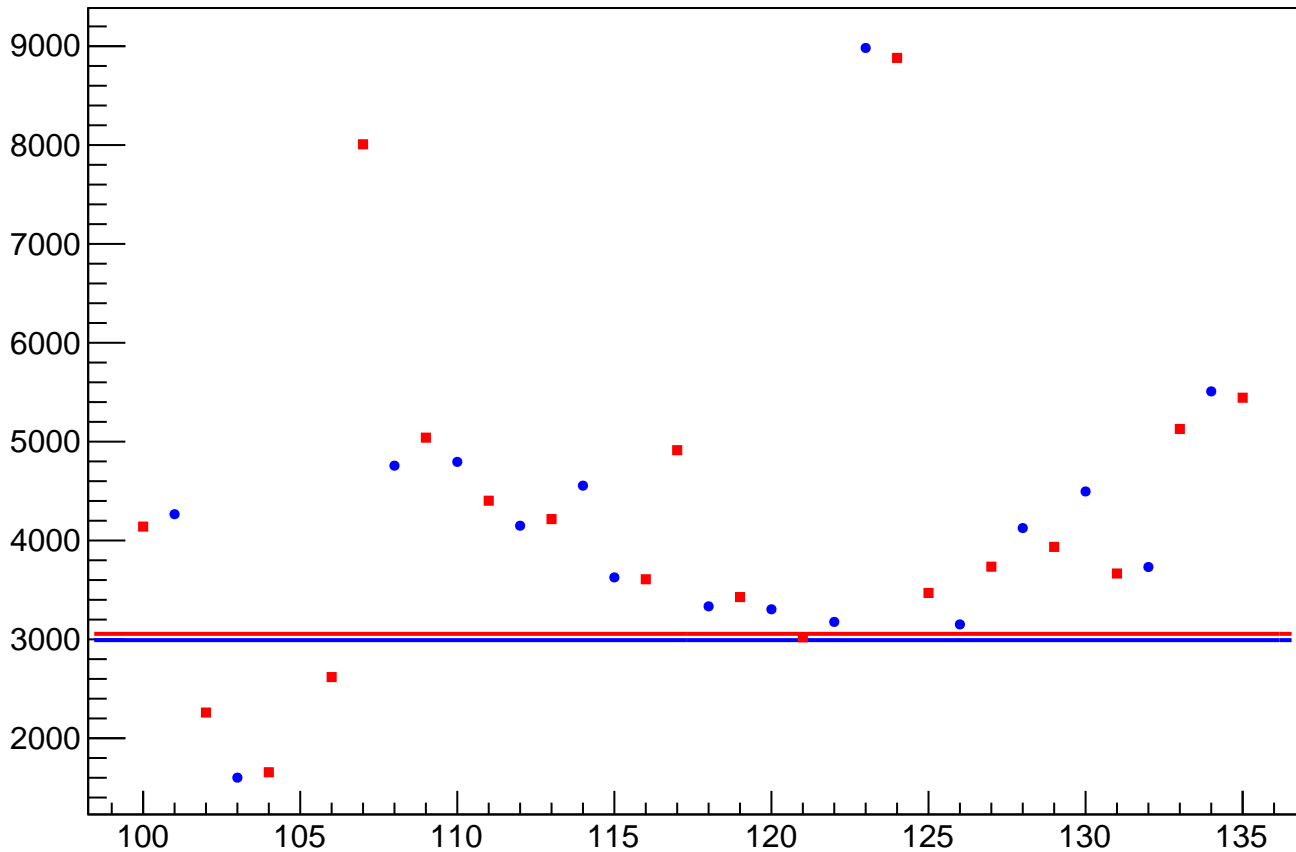
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1537.710+/-1345.130  $\chi^2$ /NDF: 13.1/15

972.240+/-931.408  $\chi^2$ /NDF: 39.3/34

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

# asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 2992.278+/-0.951  $\chi^2$ /NDF: 1571216.9/15

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

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

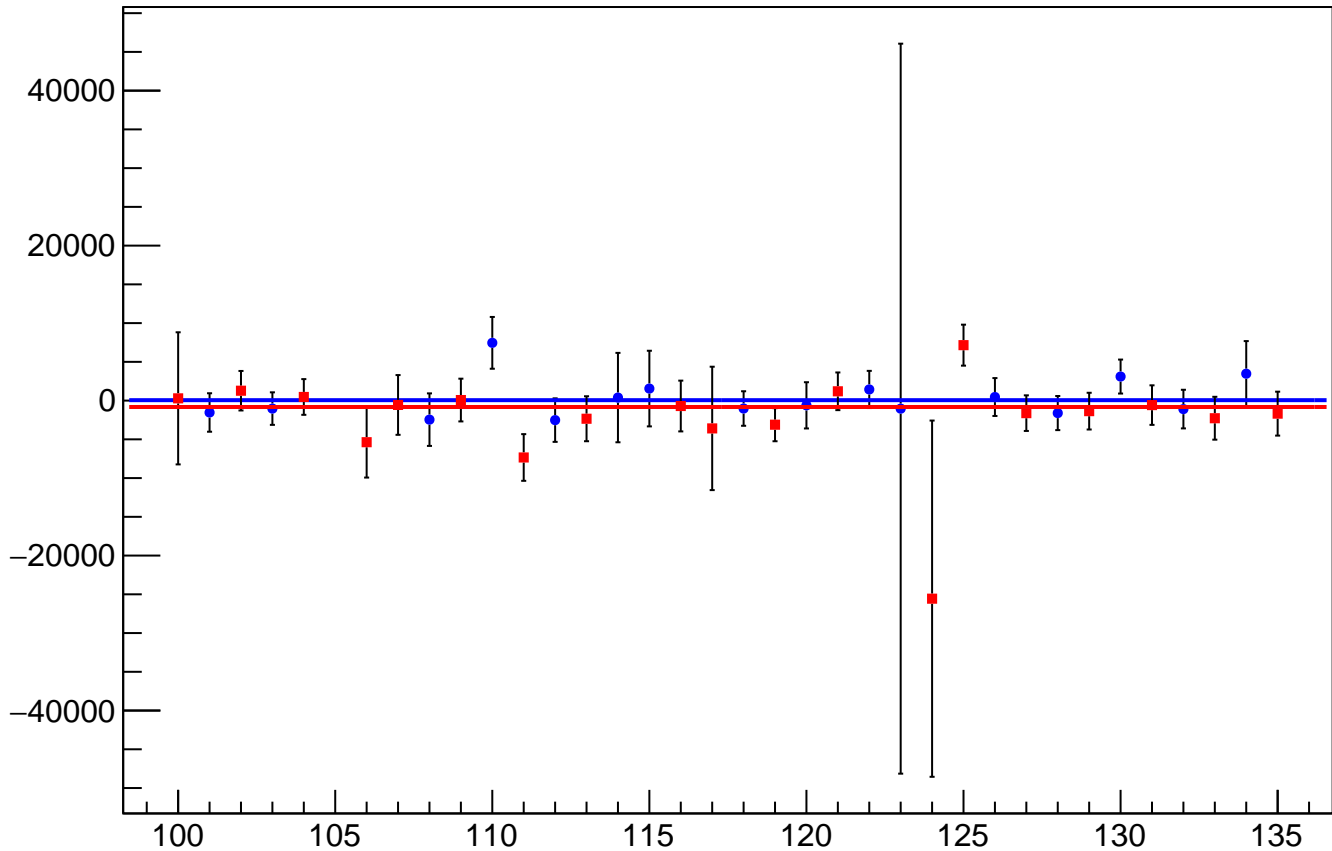
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2992.278+/-0.951  $\chi^2$ /NDF: 1571216.9/15

3025.806+/-0.654  $\chi^2$ /NDF: 3522488.1/34

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

# reg\_asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: 54.697+/-698.130  $\chi^2/\text{NDF}$ : 11.1/15

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

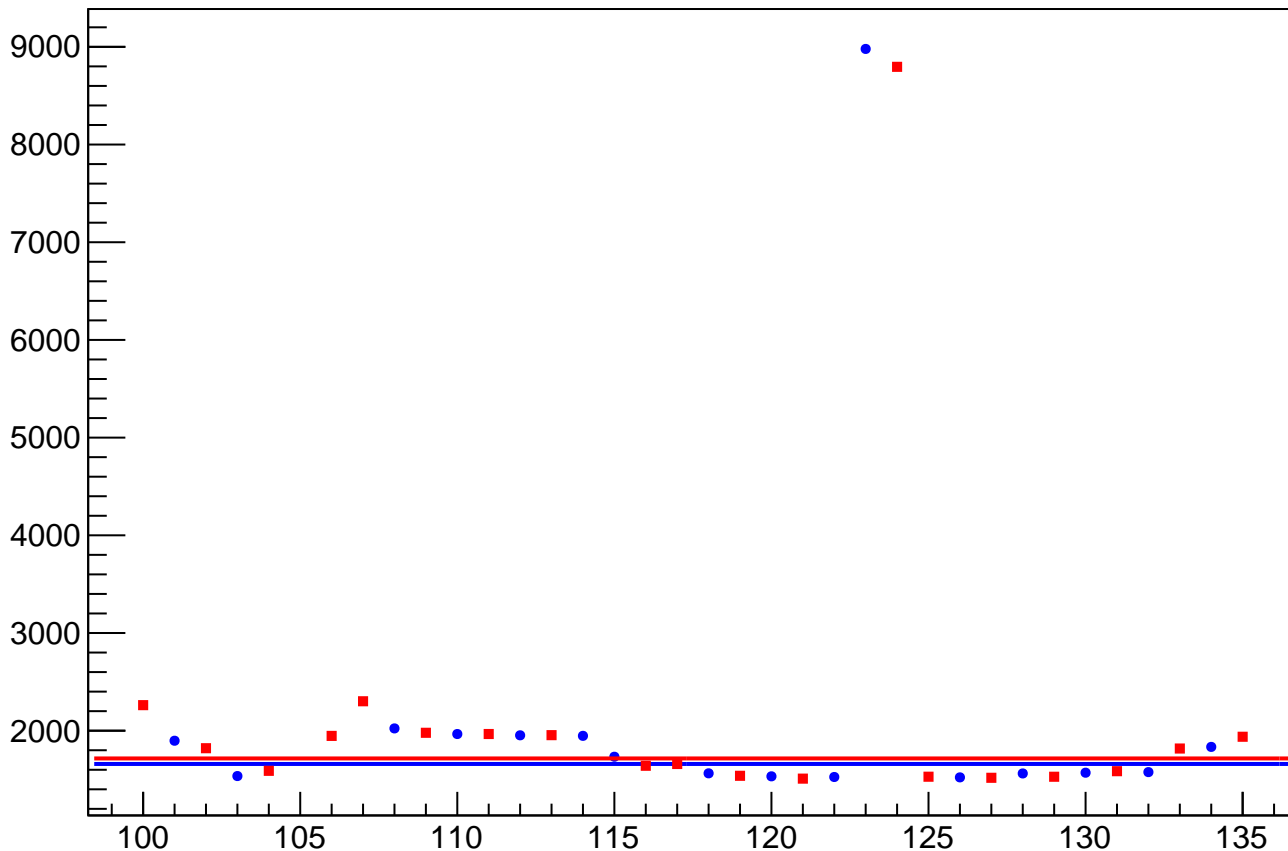
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

54.697+/-698.130  $\chi^2/\text{NDF}$ : 11.1/15

-405.700+/-482.112  $\chi^2/\text{NDF}$ : 31.8/34

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

# reg\_asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 1659.476 $\pm$ 0.494  $\chi^2$ /NDF: 173416.7/15

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

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

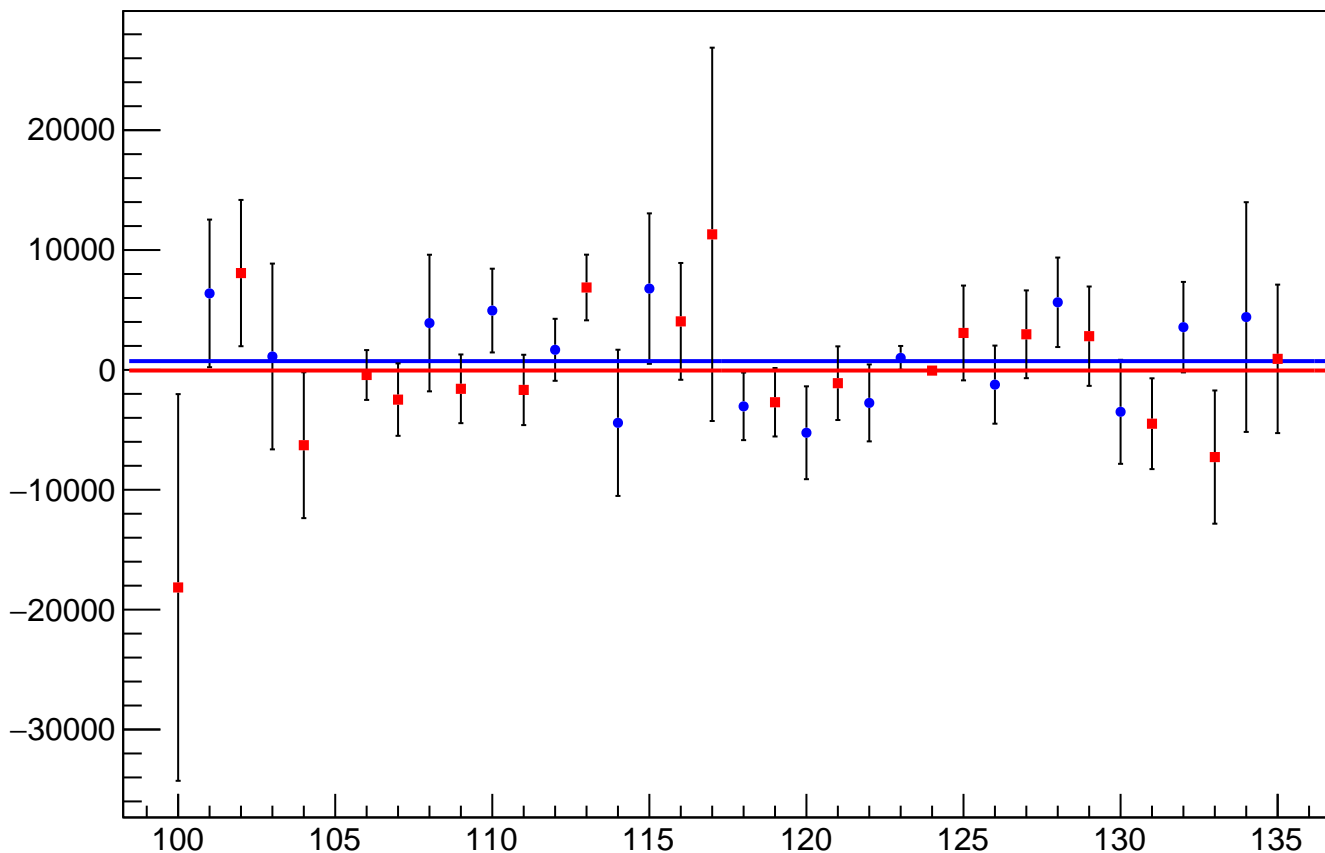
1659.476 $\pm$ 0.494  $\chi^2$ /NDF: 173416.7/15

1689.165 $\pm$ 0.340  $\chi^2$ /NDF: 573380.9/34

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



# asym\_atl\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 732.528+/-714.013  $\chi^2$ /NDF: 13.6/15

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

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

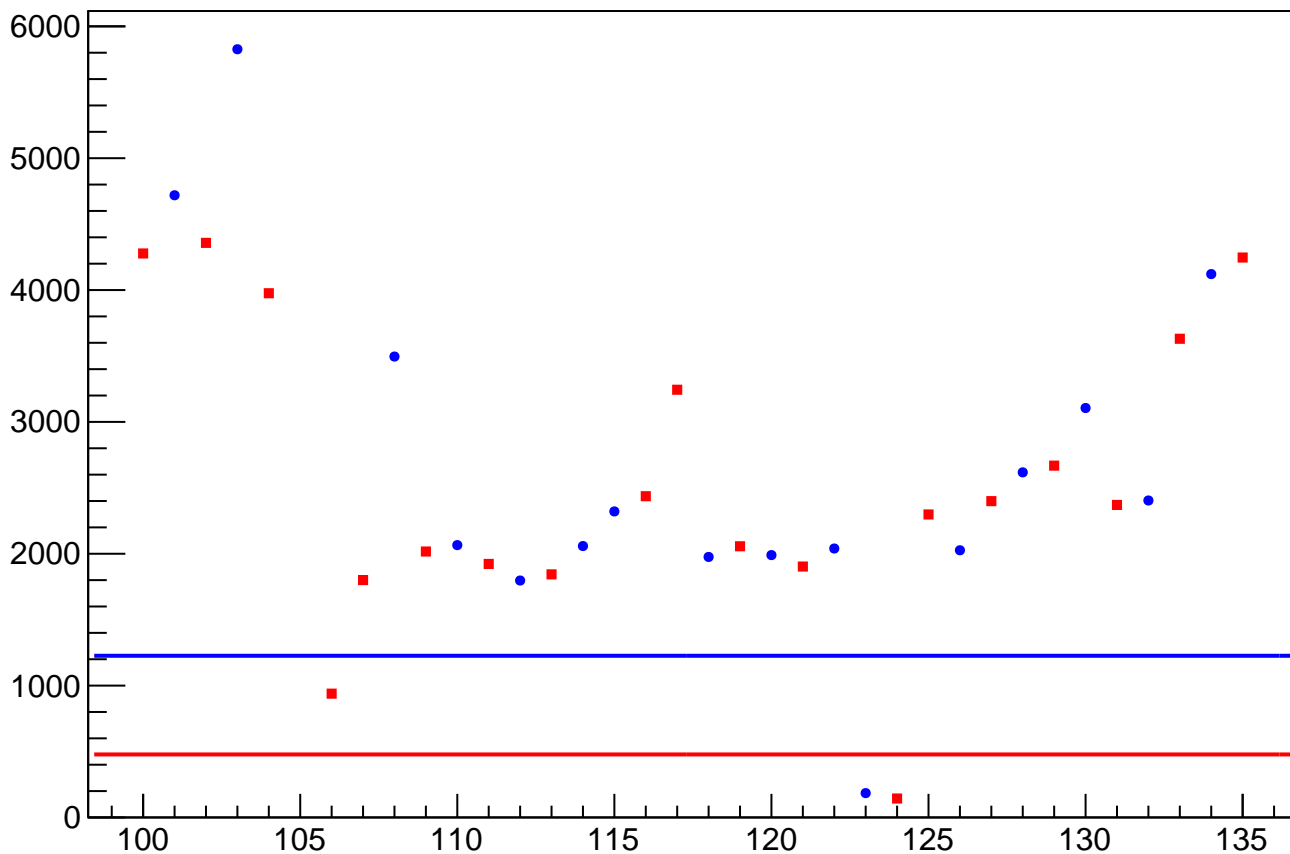
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

732.528+/-714.013  $\chi^2$ /NDF: 13.6/15

105.234+/-319.547  $\chi^2$ /NDF: 33.4/34

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

# asym\_atl\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1226.261+/-0.505  $\chi^2$ /NDF: 5675069.1/15

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

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

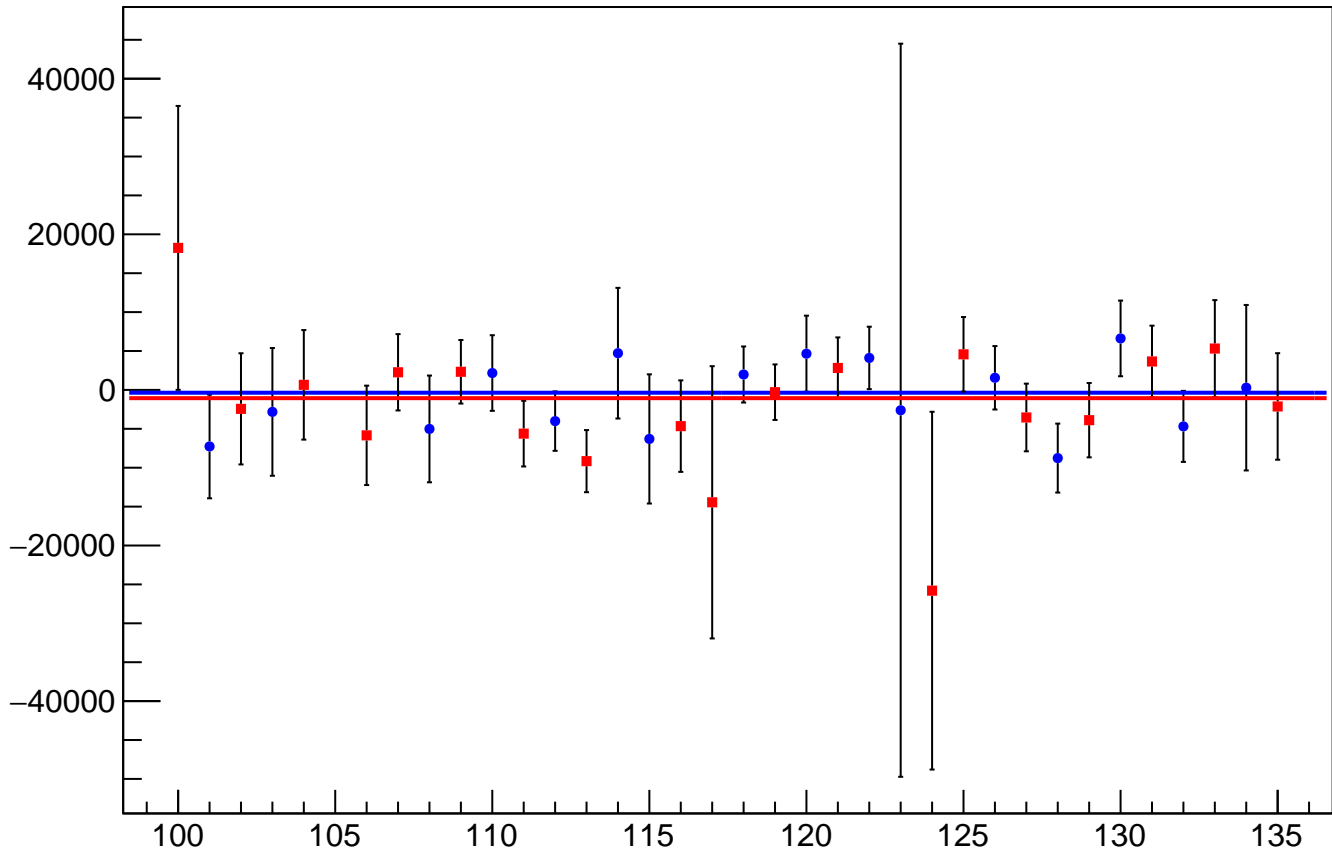
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1226.261+/-0.505  $\chi^2$ /NDF: 5675069.1/15

627.812+/-0.226  $\chi^2$ /NDF: 17342738.1/34

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

# asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In:  $-361.226 \pm 1302.225$   $\chi^2/\text{NDF}: 13.2/15$

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

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

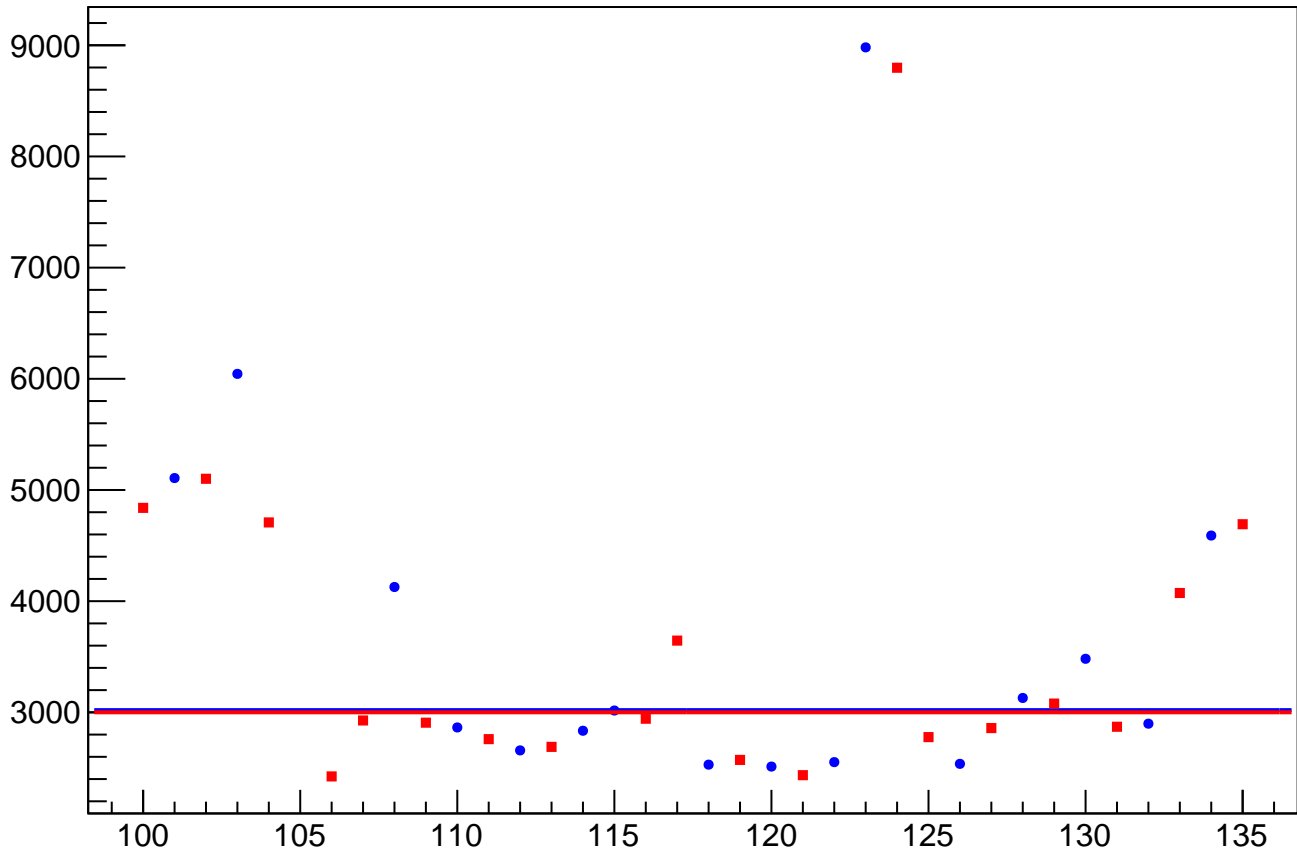
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-361.226 \pm 1302.225$   $\chi^2/\text{NDF}: 13.2/15$

$-741.429 \pm 880.681$   $\chi^2/\text{NDF}: 28.9/34$

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

# asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 3019.986+/-0.921  $\chi^2$ /NDF: 750863.0/15

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

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

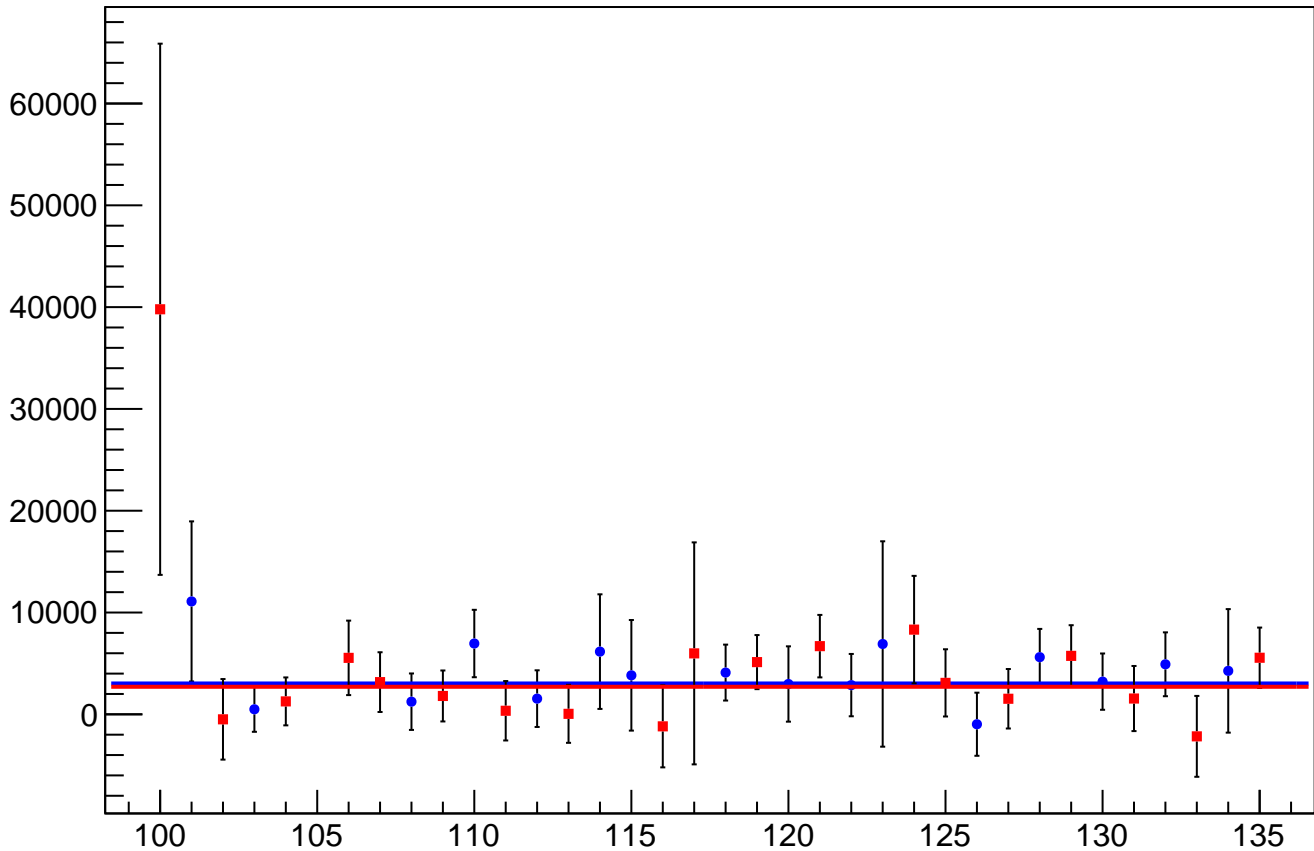
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3019.986+/-0.921  $\chi^2$ /NDF: 750863.0/15

3009.226+/-0.618  $\chi^2$ /NDF: 1500699.3/34

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

# reg\_asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 3030.589+/-829.904  $\chi^2$ /NDF: 8.0/15

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

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

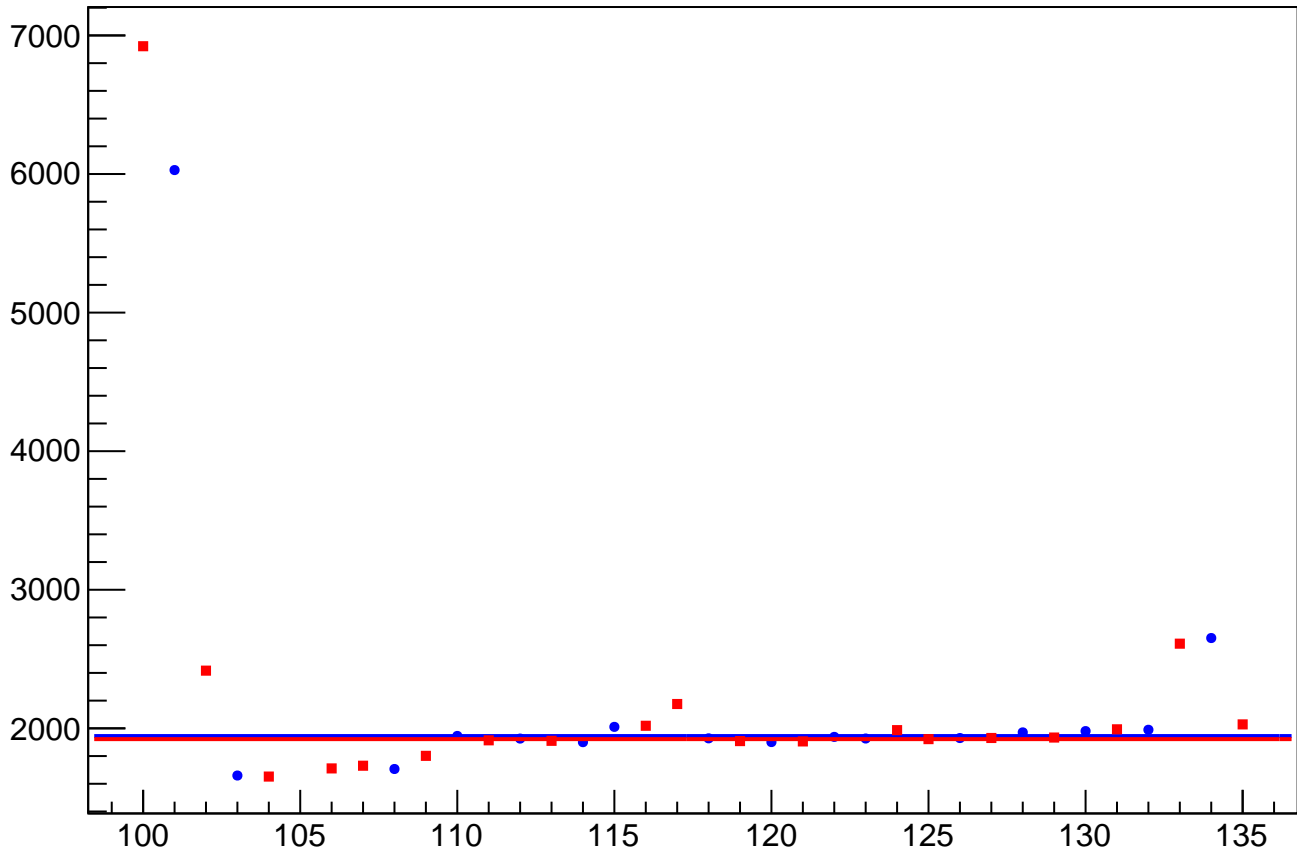
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3030.589+/-829.904  $\chi^2$ /NDF: 8.0/15

2851.666+/-555.844  $\chi^2$ /NDF: 21.9/34

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

# reg\_asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 1944.266+/-0.587  $\chi^2/\text{NDF}$ : 616411.4/15

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

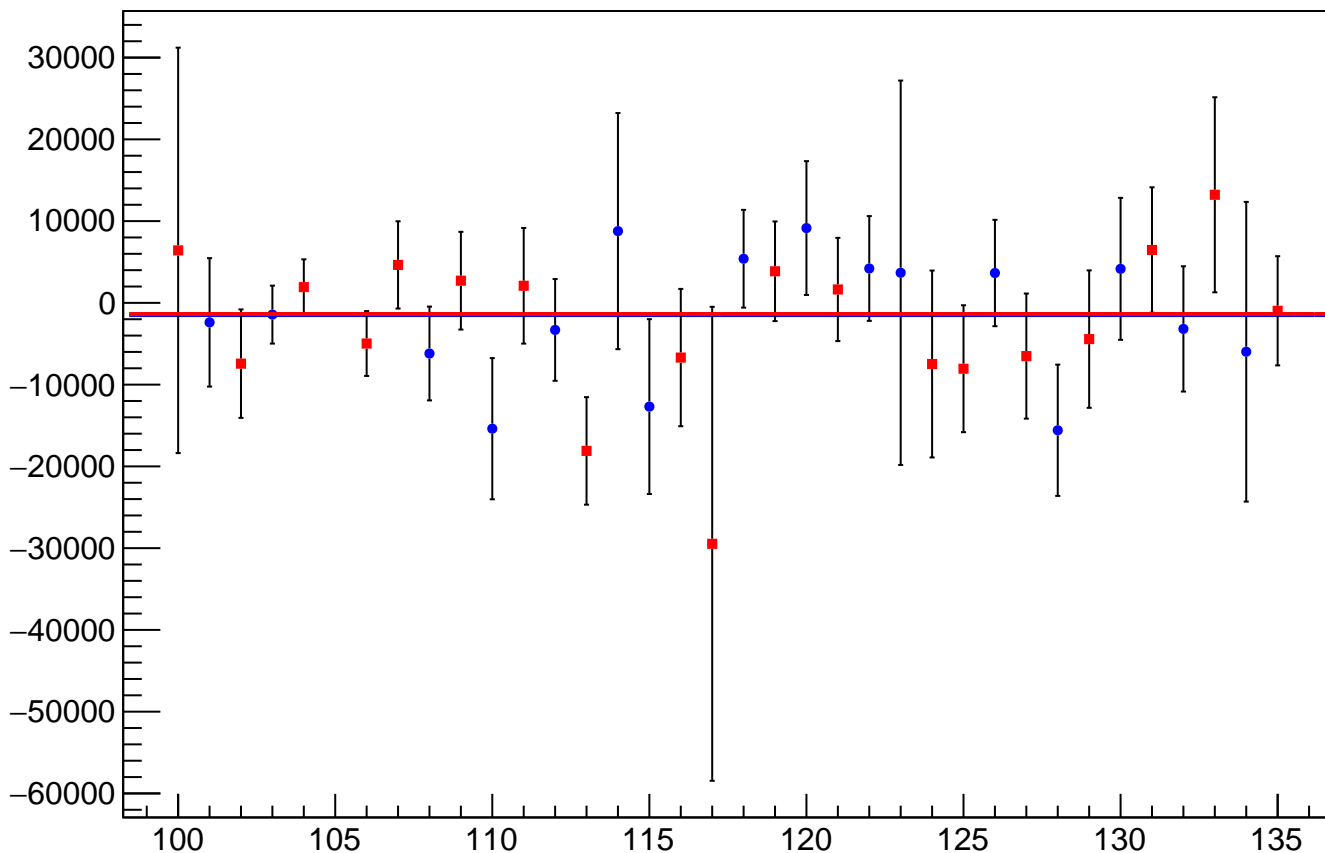
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1944.266+/-0.587  $\chi^2/\text{NDF}$ : 616411.4/15

1932.051+/-0.393  $\chi^2/\text{NDF}$ : 835245.0/34

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

# asym\_atr\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -1488.707 $\pm$ 1766.330  $\chi^2$ /NDF: 13.1/15

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

Right Out: -1363.050 $\pm$ 1490.360  $\chi^2$ /NDF: 17.6/18

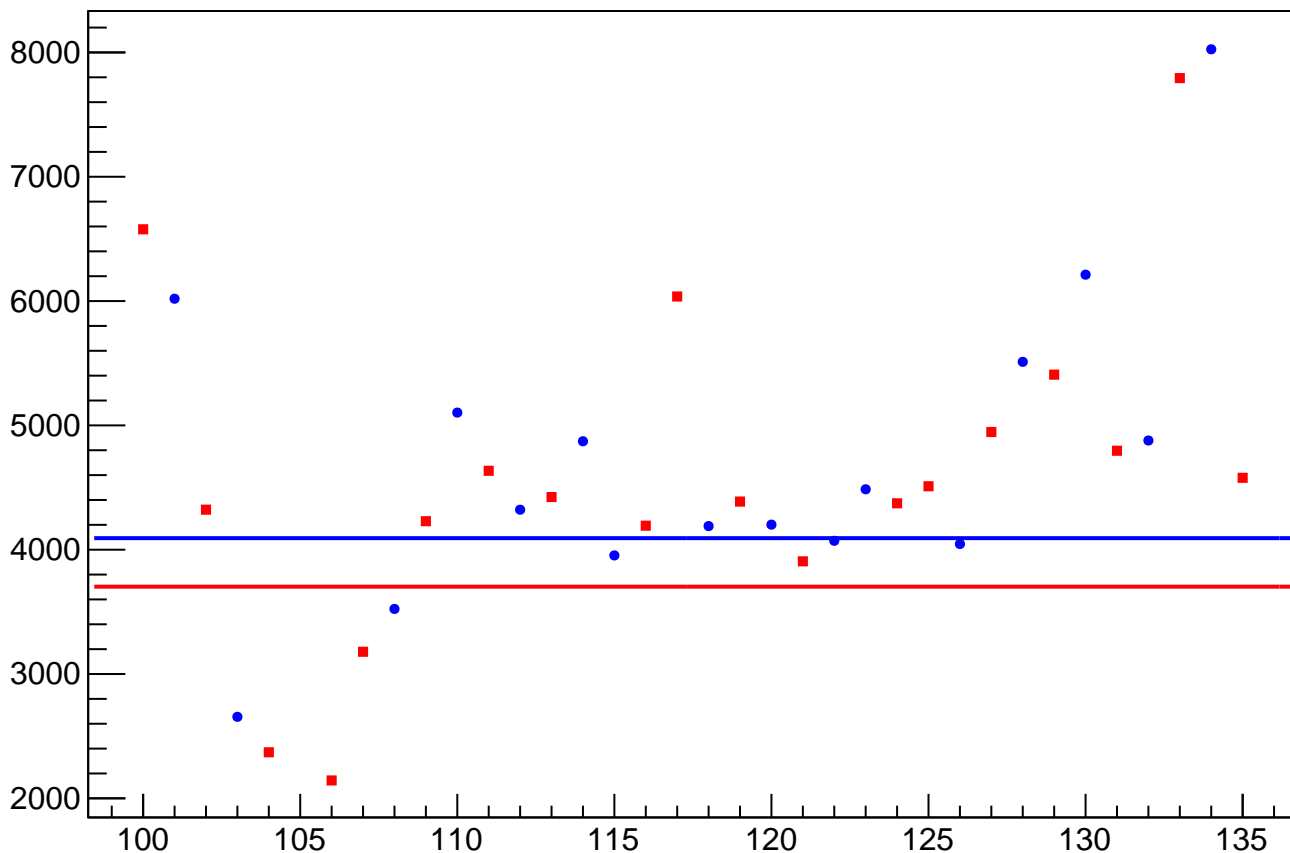
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

-1488.707 $\pm$ 1766.330  $\chi^2$ /NDF: 13.1/15

-1415.306 $\pm$ 1139.063  $\chi^2$ /NDF: 30.7/34

-1363.050 $\pm$ 1490.360  $\chi^2$ /NDF: 17.6/18

# asym\_atr\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 4092.863+/-1.249  $\chi^2$ /NDF: 801546.7/15

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

Right Out: 3702.668+/-1.054  $\chi^2$ /NDF: 1275726.5/18

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

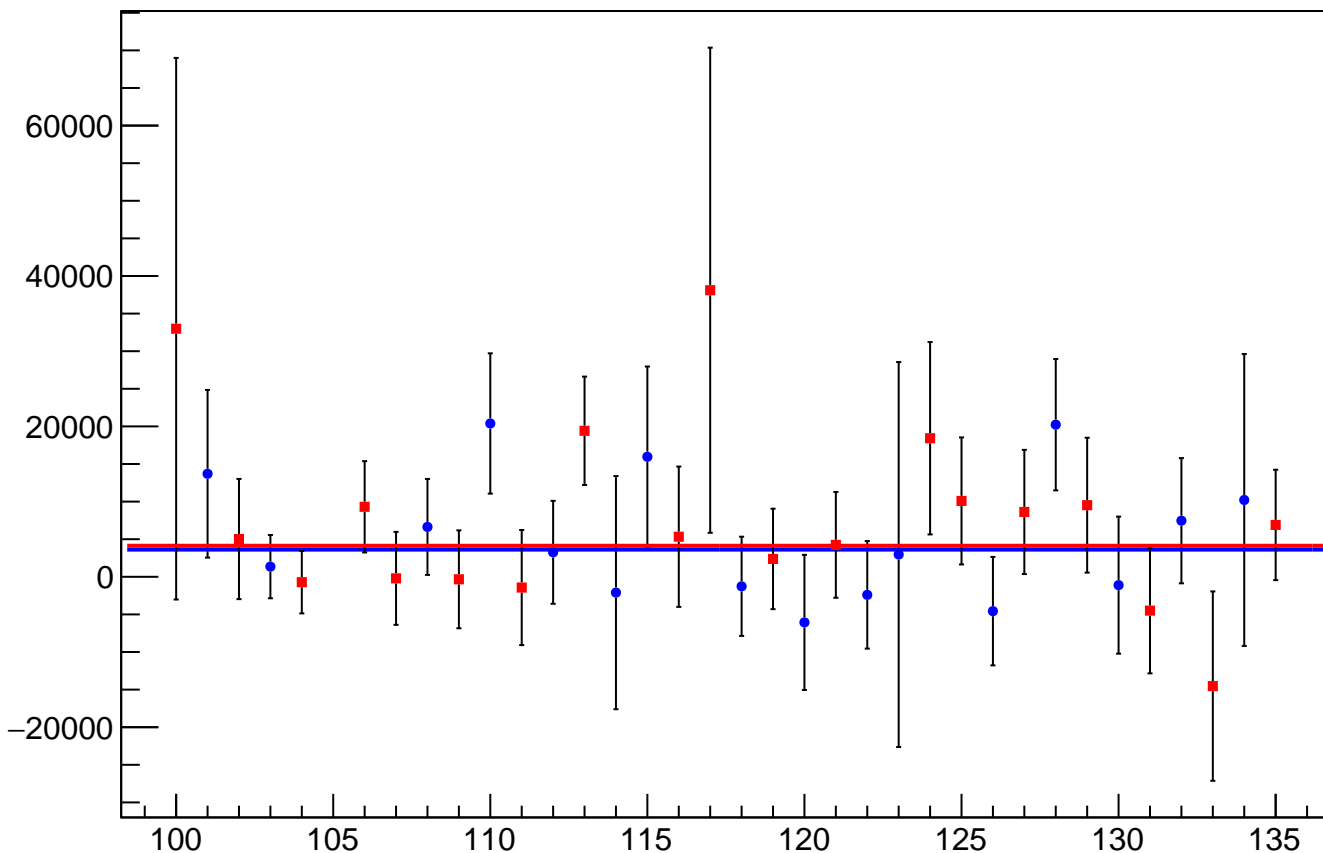
4092.863+/-1.249  $\chi^2$ /NDF: 801546.7/15

3864.936+/-0.805  $\chi^2$ /NDF: 2134284.6/34

3702.668+/-1.054  $\chi^2$ /NDF: 1275726.5/18



# asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 3617.194+/-1996.323  $\chi^2$ /NDF: 13.7/15

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

Right Out: 4129.459+/-1742.792  $\chi^2$ /NDF: 15.7/18

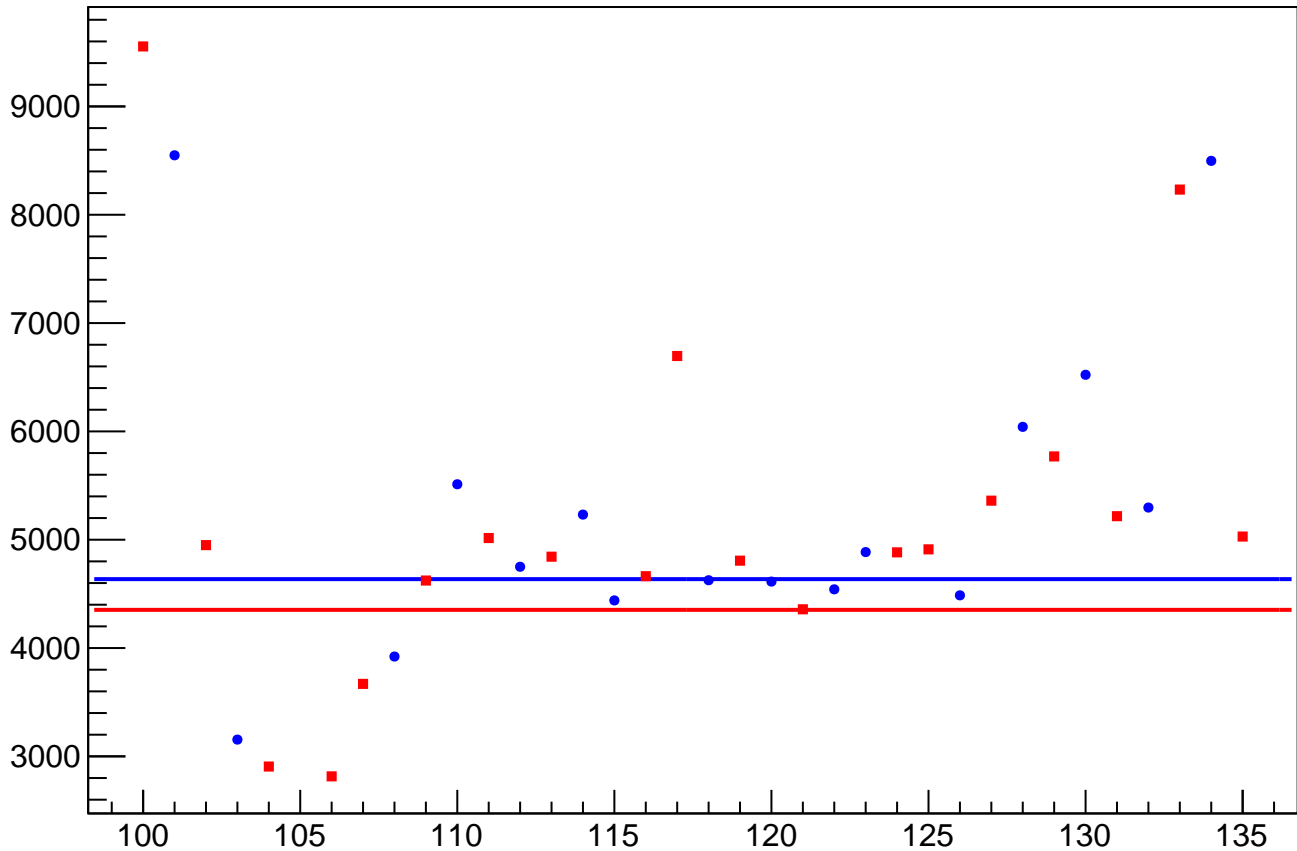
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3617.194+/-1996.323  $\chi^2$ /NDF: 13.7/15

3907.902+/-1312.885  $\chi^2$ /NDF: 29.5/34

4129.459+/-1742.792  $\chi^2$ /NDF: 15.7/18

# asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 4636.191+/-1.412  $\chi^2$ /NDF: 771703.1/15

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

Right Out: 4352.556+/-1.225  $\chi^2$ /NDF: 836950.8/18

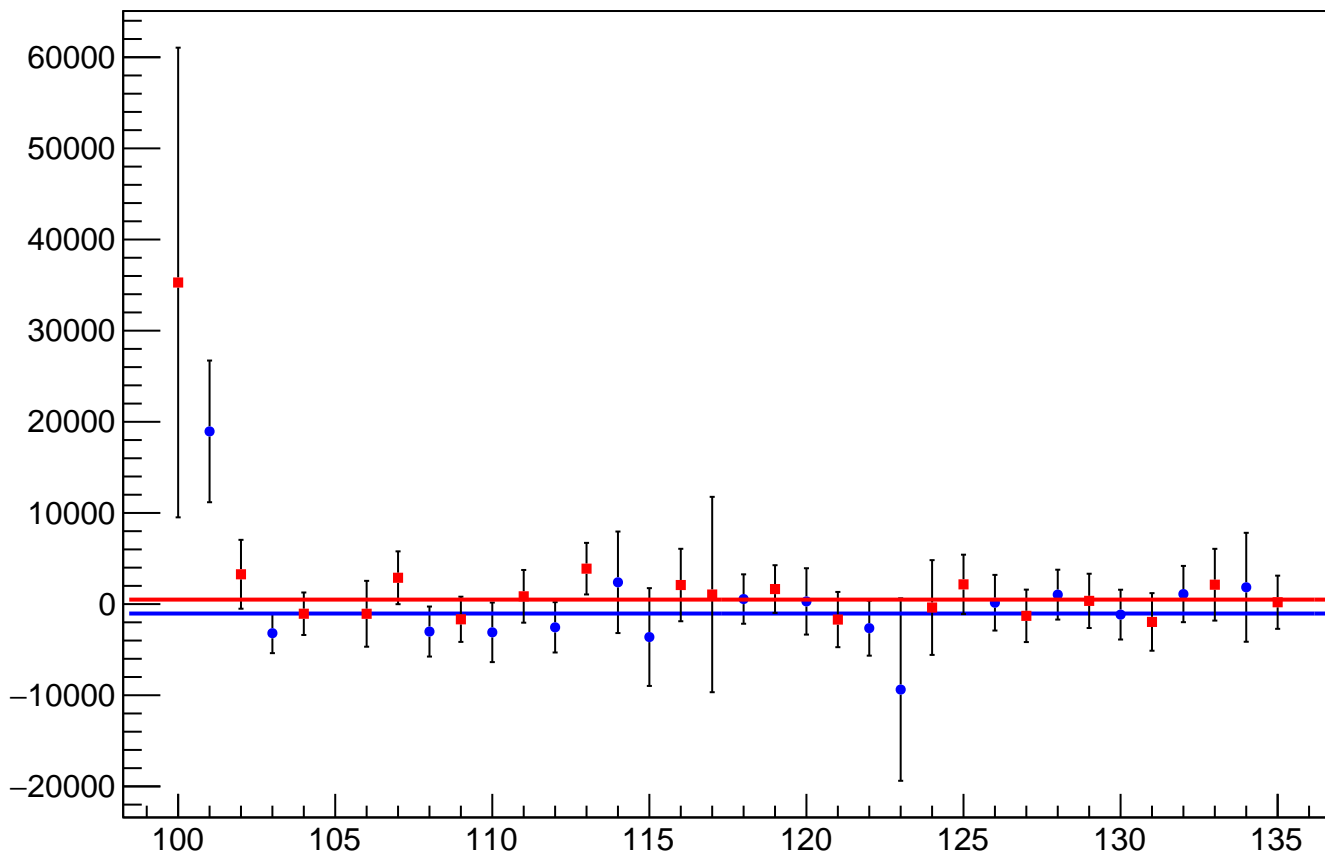
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

4636.191+/-1.412  $\chi^2$ /NDF: 771703.1/15

4474.408+/-0.925  $\chi^2$ /NDF: 1631682.2/34

4352.556+/-1.225  $\chi^2$ /NDF: 836950.8/18

# reg\_asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In:  $-1035.373 \pm 819.585$   $\chi^2/\text{NDF}: 12.3/15$

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

Right Out:  $493.357 \pm 738.768$   $\chi^2/\text{NDF}: 8.2/18$

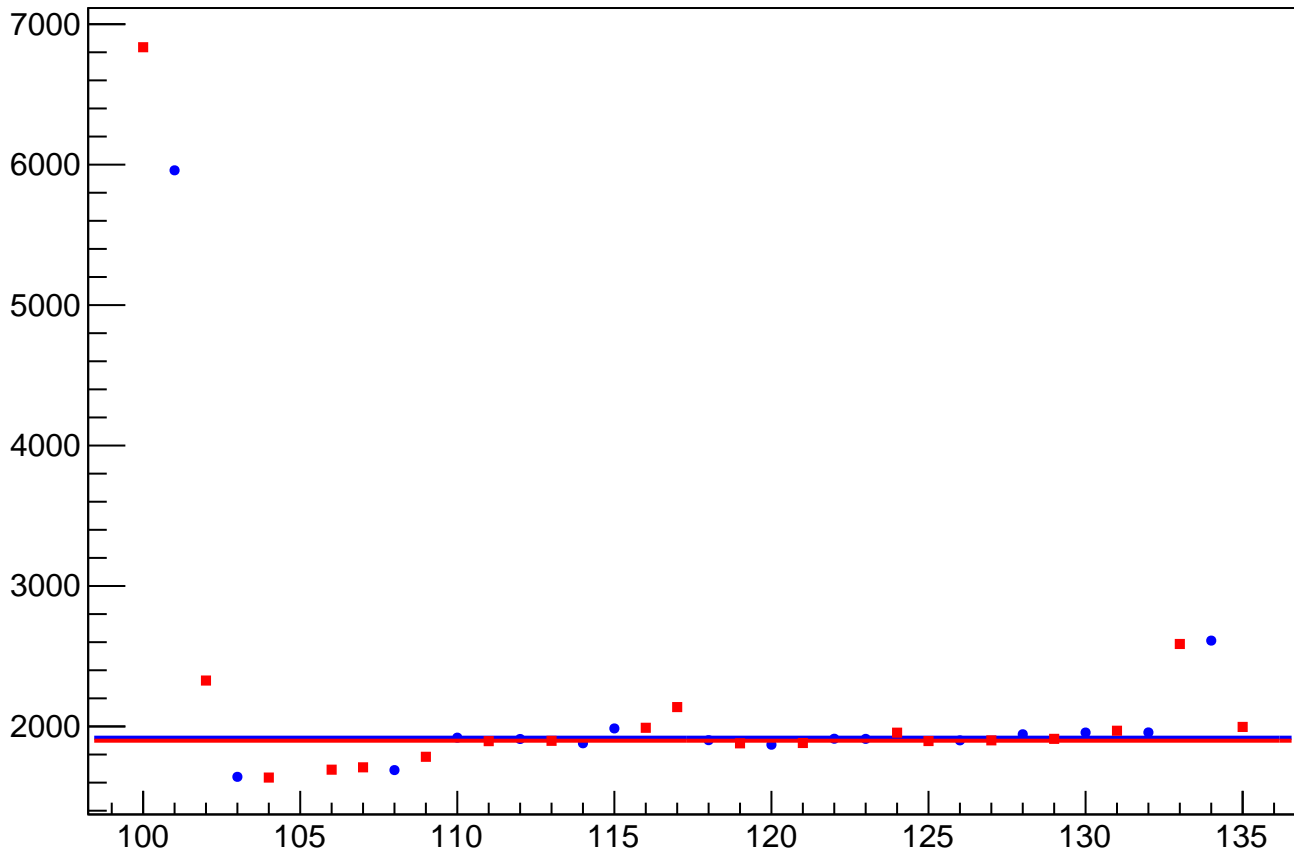
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1035.373 \pm 819.585$   $\chi^2/\text{NDF}: 12.3/15$

$-191.940 \pm 548.742$   $\chi^2/\text{NDF}: 22.5/34$

$493.357 \pm 738.768$   $\chi^2/\text{NDF}: 8.2/18$

# reg\_asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 1920.130+/-0.580  $\chi^2/\text{NDF}$ : 615237.4/15

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

Right Out: 1898.504+/-0.521  $\chi^2/\text{NDF}$ : 211569.7/18

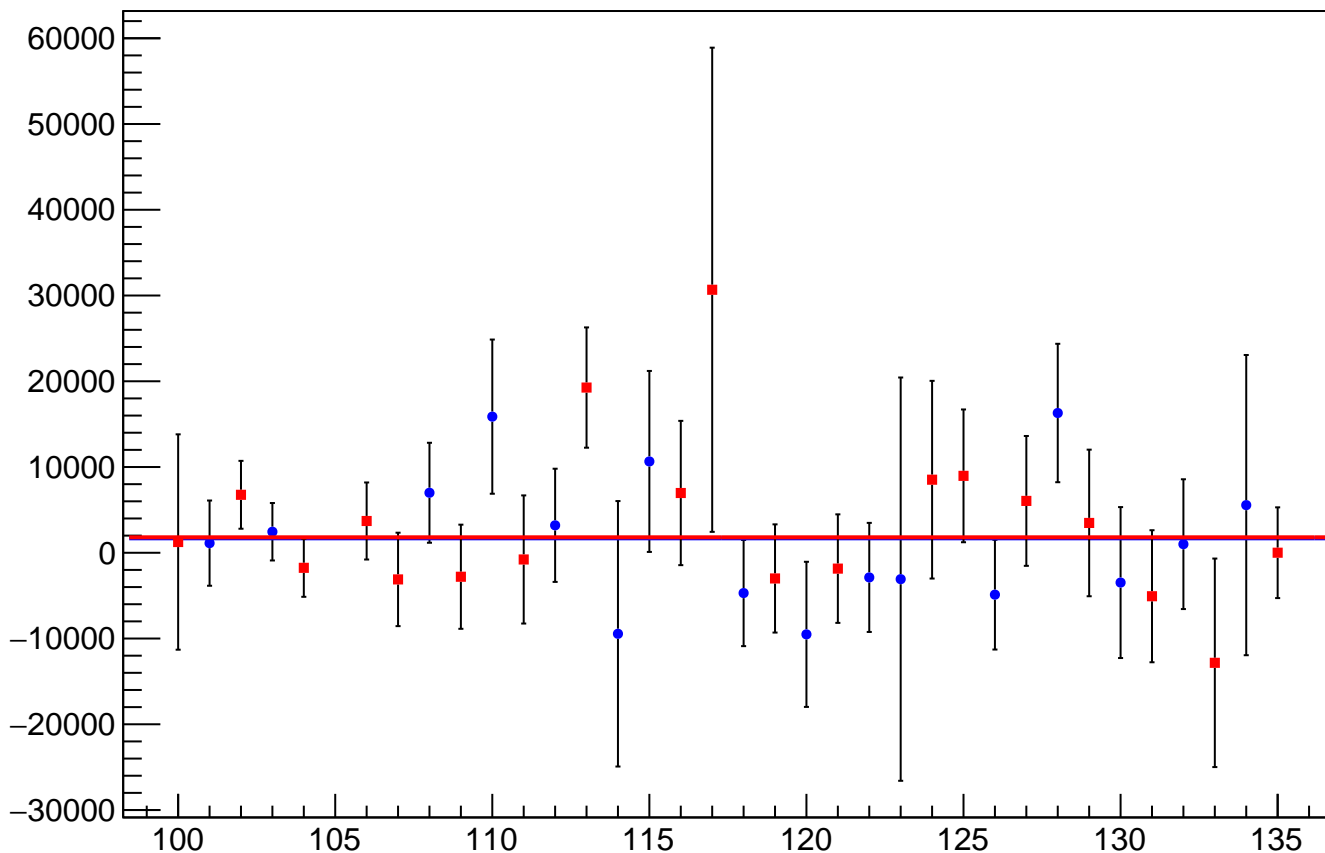
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1920.130+/-0.580  $\chi^2/\text{NDF}$ : 615237.4/15

1908.174+/-0.388  $\chi^2/\text{NDF}$ : 827577.0/34

1898.504+/-0.521  $\chi^2/\text{NDF}$ : 211569.7/18

# asym\_atr\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 1685.578+/-1696.352  $\chi^2$ /NDF: 12.8/15

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

Right Out: 1803.013+/-1433.754  $\chi^2$ /NDF: 16.8/18

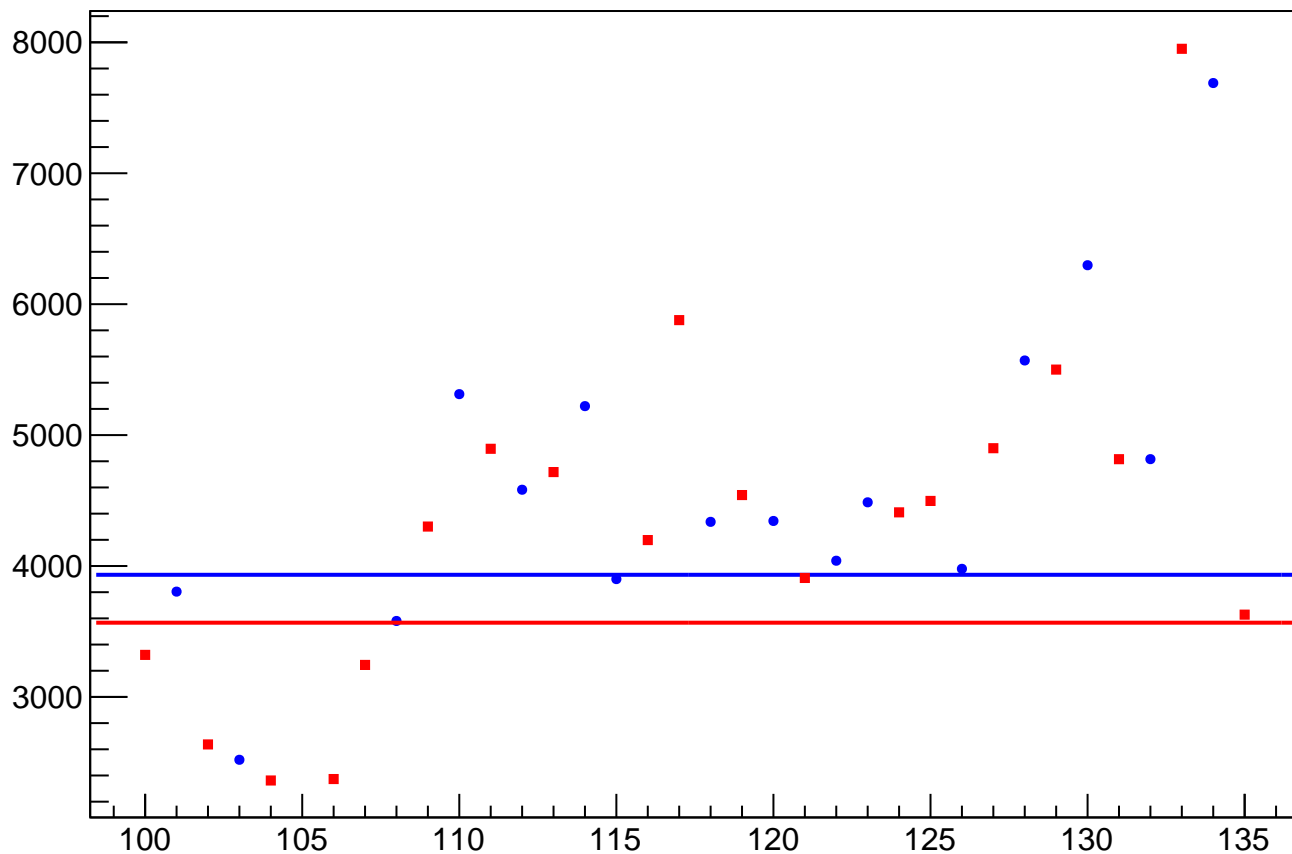
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1685.578+/-1696.352  $\chi^2$ /NDF: 12.8/15

1754.079+/-1095.024  $\chi^2$ /NDF: 29.6/34

1803.013+/-1433.754  $\chi^2$ /NDF: 16.8/18

# asym\_atr\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 3932.916+/-1.200  $\chi^2/\text{NDF}$ : 805852.3/15

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

Right Out: 3567.056+/-1.014  $\chi^2/\text{NDF}$ : 1254927.1/18

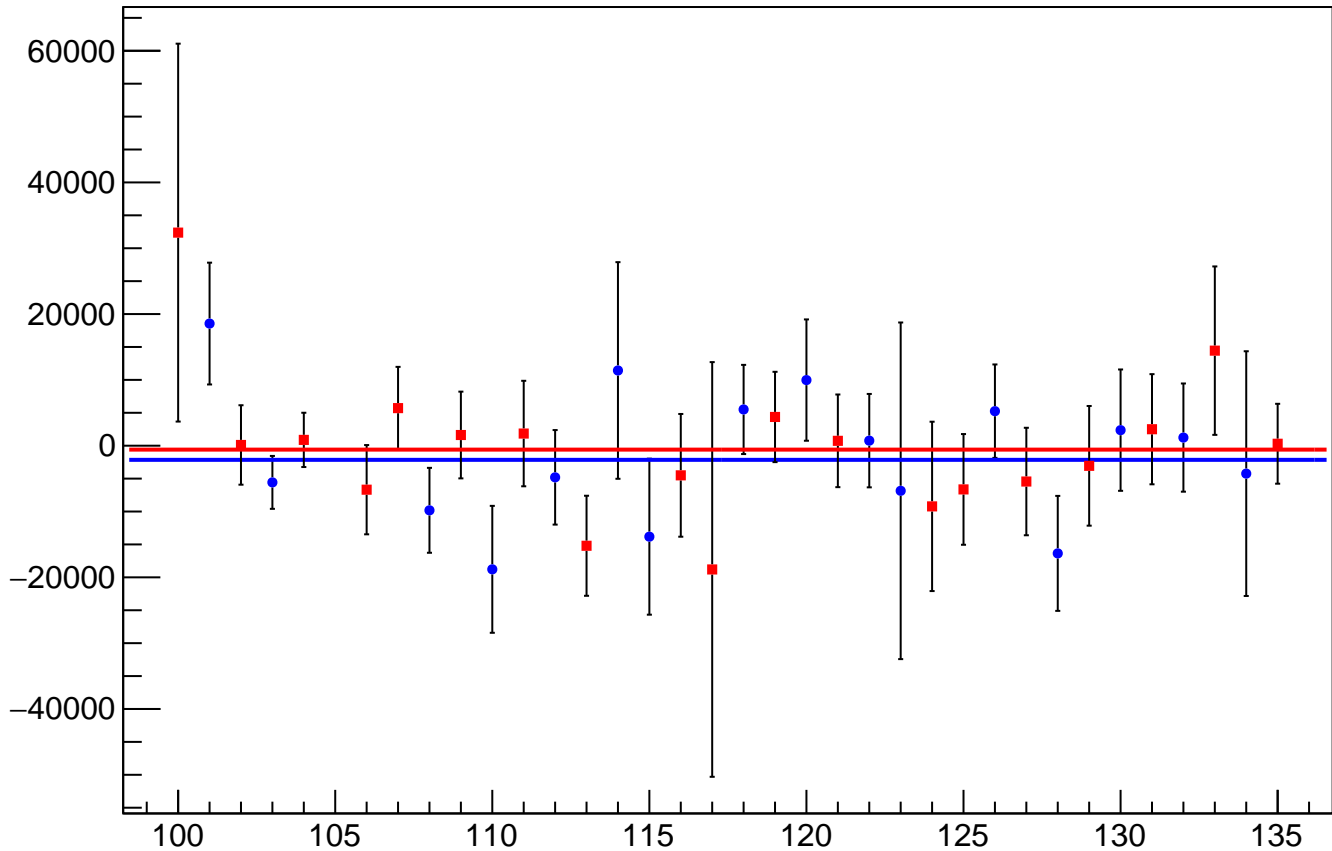
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3932.916+/-1.200  $\chi^2/\text{NDF}$ : 805852.3/15

3719.506+/-0.774  $\chi^2/\text{NDF}$ : 2115045.2/34

3567.056+/-1.014  $\chi^2/\text{NDF}$ : 1254927.1/18

# asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In:  $-2148.309 \pm 1976.708$   $\chi^2/\text{NDF}: 19.3/15$

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

Right Out:  $-595.032 \pm 1716.591$   $\chi^2/\text{NDF}: 11.2/18$

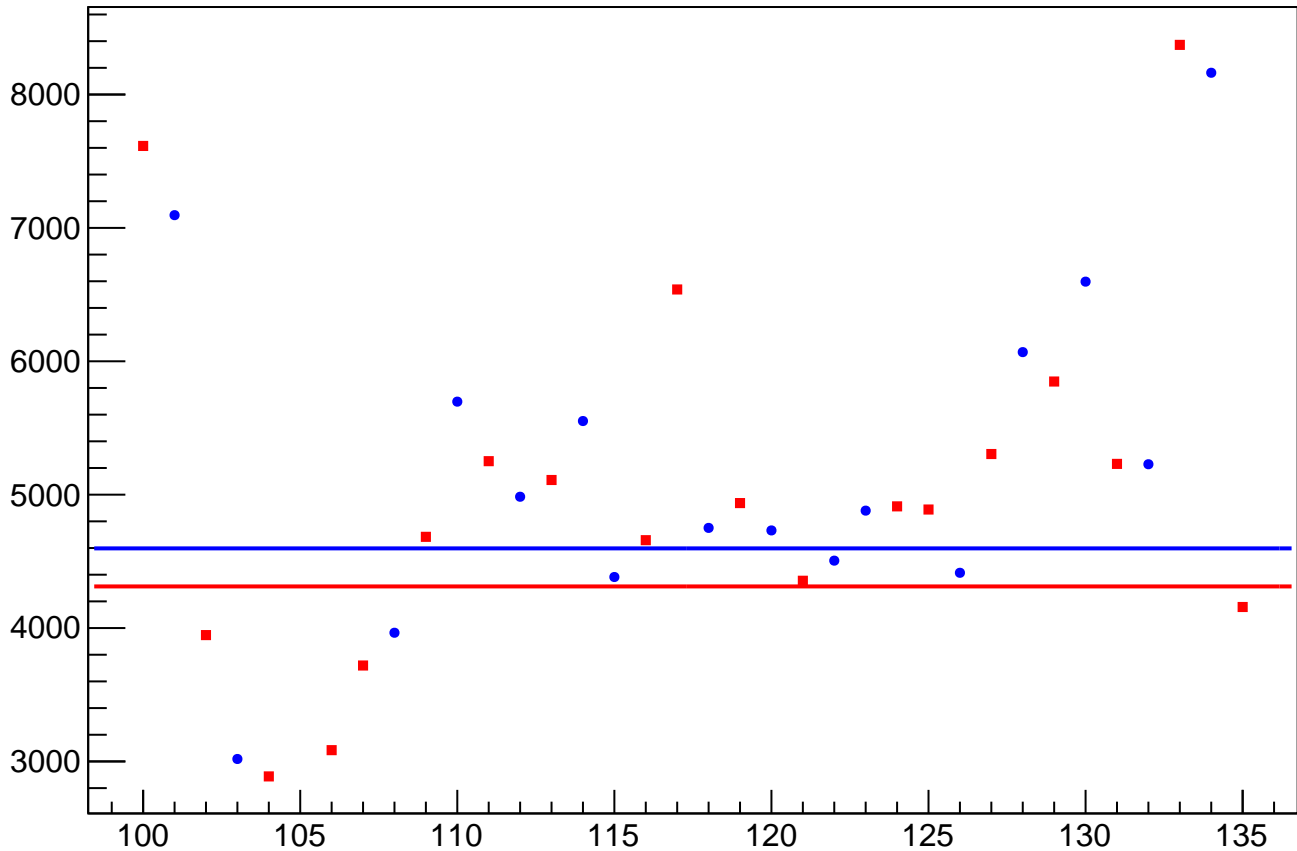
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2148.309 \pm 1976.708$   $\chi^2/\text{NDF}: 19.3/15$

$-1262.814 \pm 1296.091$   $\chi^2/\text{NDF}: 30.8/34$

$-595.032 \pm 1716.591$   $\chi^2/\text{NDF}: 11.2/18$

# asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 4597.284+/-1.398  $\chi^2/\text{NDF}$ : 752398.2/15

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

Right Out: 4312.020+/-1.207  $\chi^2/\text{NDF}$ : 780139.6/18

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

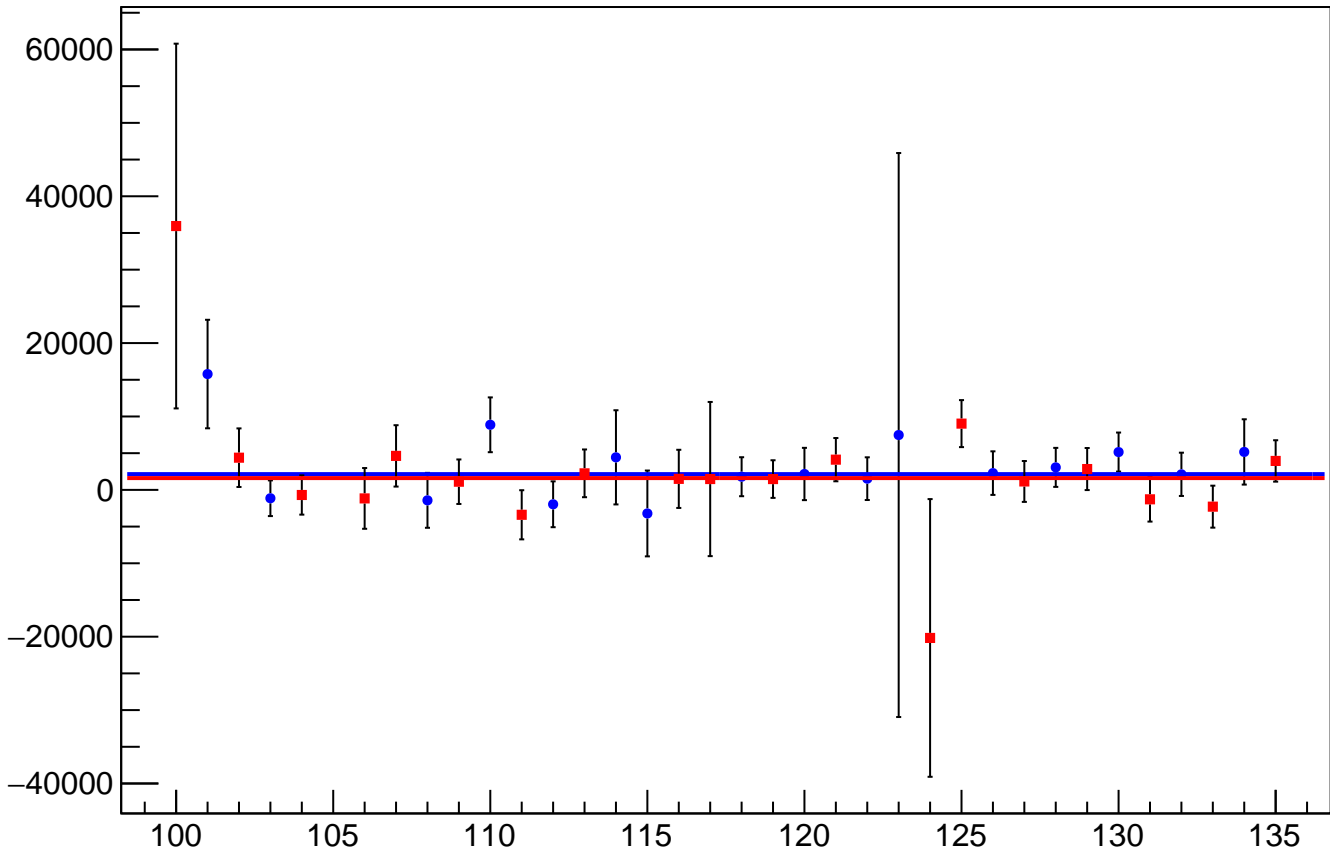
4597.284+/-1.398  $\chi^2/\text{NDF}$ : 752398.2/15

4433.859+/-0.913  $\chi^2/\text{NDF}$ : 1556400.1/34

4312.020+/-1.207  $\chi^2/\text{NDF}$ : 780139.6/18



# reg\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 2147.191+/-848.616  $\chi^2$ /NDF: 14.0/15

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

Right Out: 1605.935+/-776.035  $\chi^2$ /NDF: 17.5/18

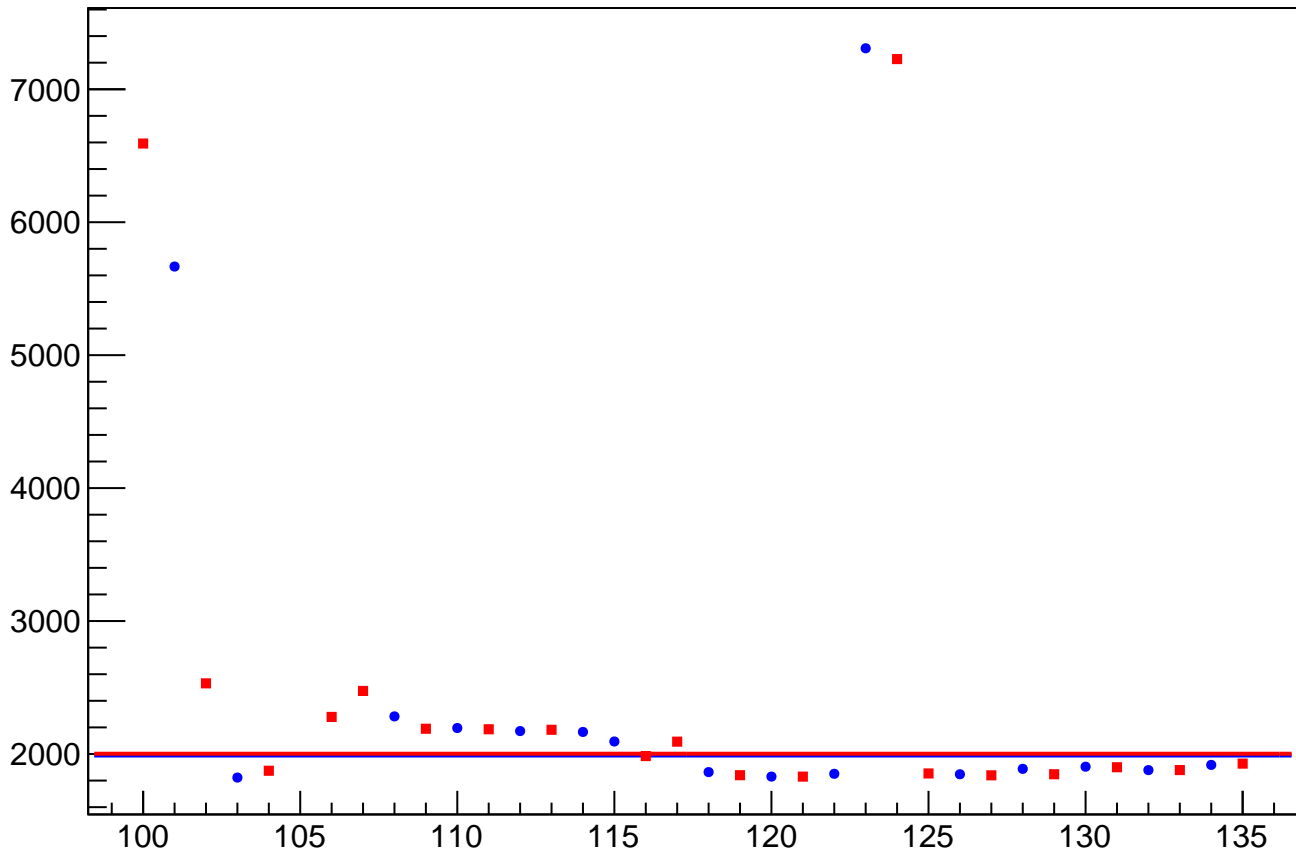
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2147.191+/-848.616  $\chi^2$ /NDF: 14.0/15

1852.431+/-572.683  $\chi^2$ /NDF: 31.7/34

1605.935+/-776.035  $\chi^2$ /NDF: 17.5/18

# reg\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 1988.612+/-0.600  $\chi^2/\text{NDF}$ : 595951.2/15

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

Right Out: 2001.981+/-0.549  $\chi^2/\text{NDF}$ : 354175.2/18

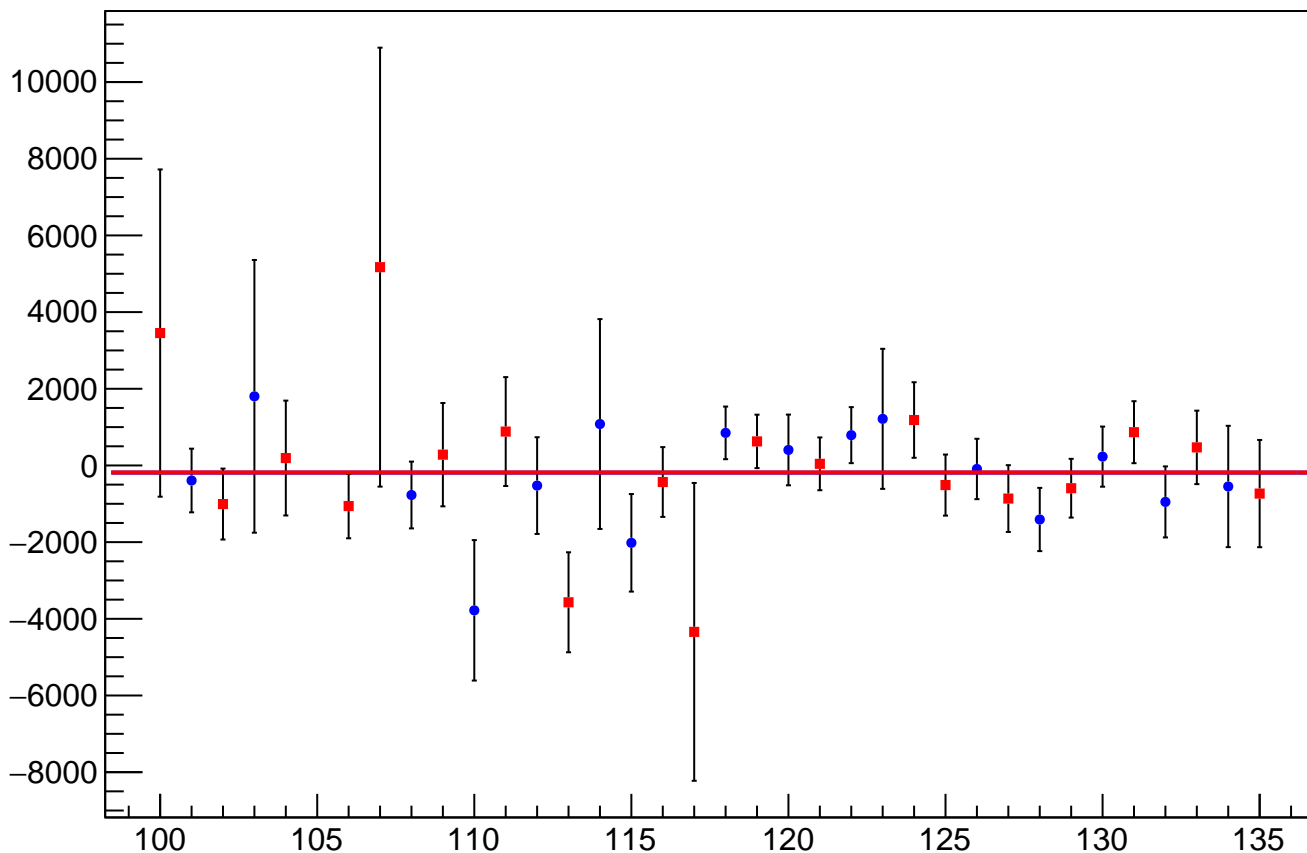
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1988.612+/-0.600  $\chi^2/\text{NDF}$ : 595951.2/15

1995.892+/-0.405  $\chi^2/\text{NDF}$ : 950396.8/34

2001.981+/-0.549  $\chi^2/\text{NDF}$ : 354175.2/18

# asym\_at1\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -187.447+/-247.892  $\chi^2$ /NDF: 15.3/15

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

Right Out: -181.741+/-229.744  $\chi^2$ /NDF: 18.9/18

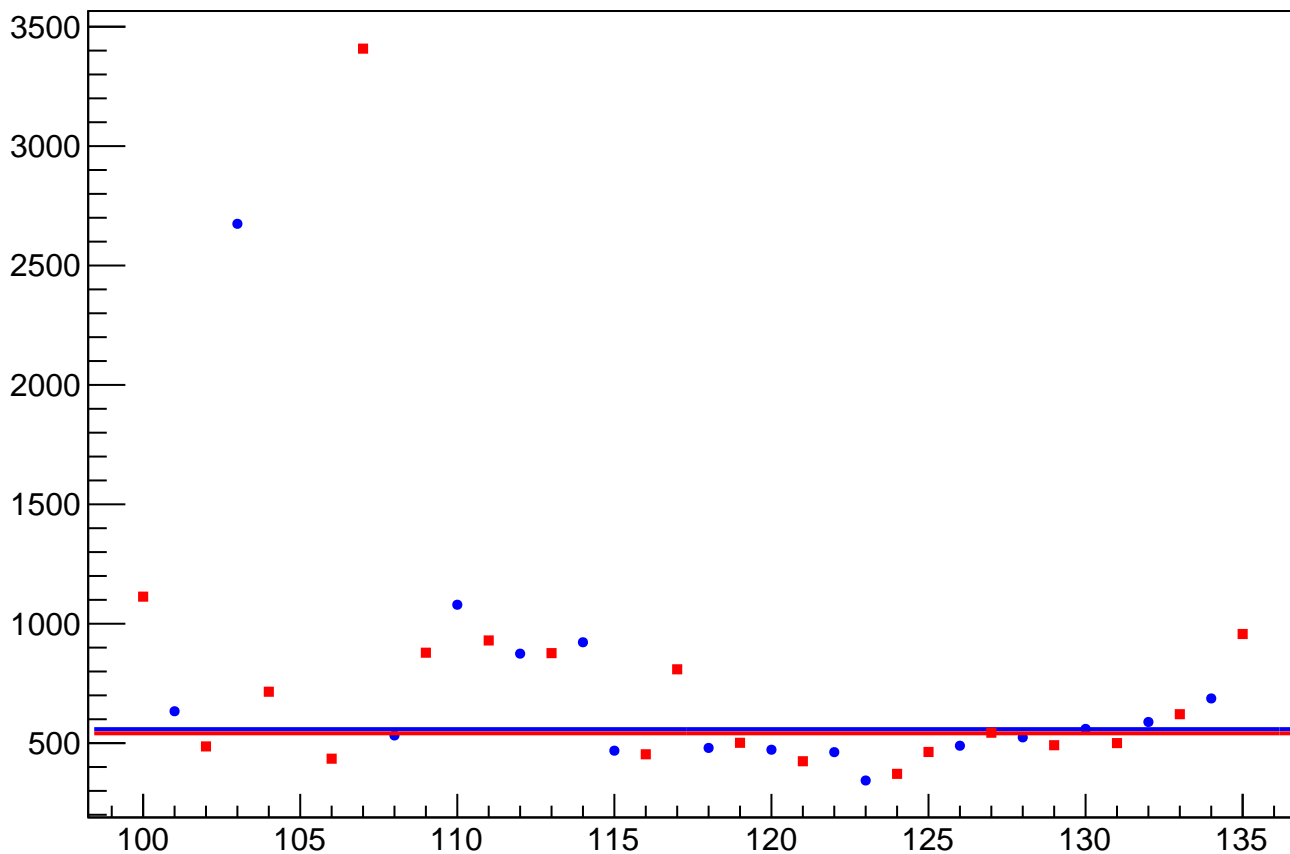
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-187.447+/-247.892  $\chi^2$ /NDF: 15.3/15

-184.378+/-168.504  $\chi^2$ /NDF: 34.3/34

-181.741+/-229.744  $\chi^2$ /NDF: 18.9/18

# asym\_at1\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 558.582+/-0.175  $\chi^2$ /NDF: 1199433.7/15

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

Right Out: 541.083+/-0.162  $\chi^2$ /NDF: 1386889.5/18

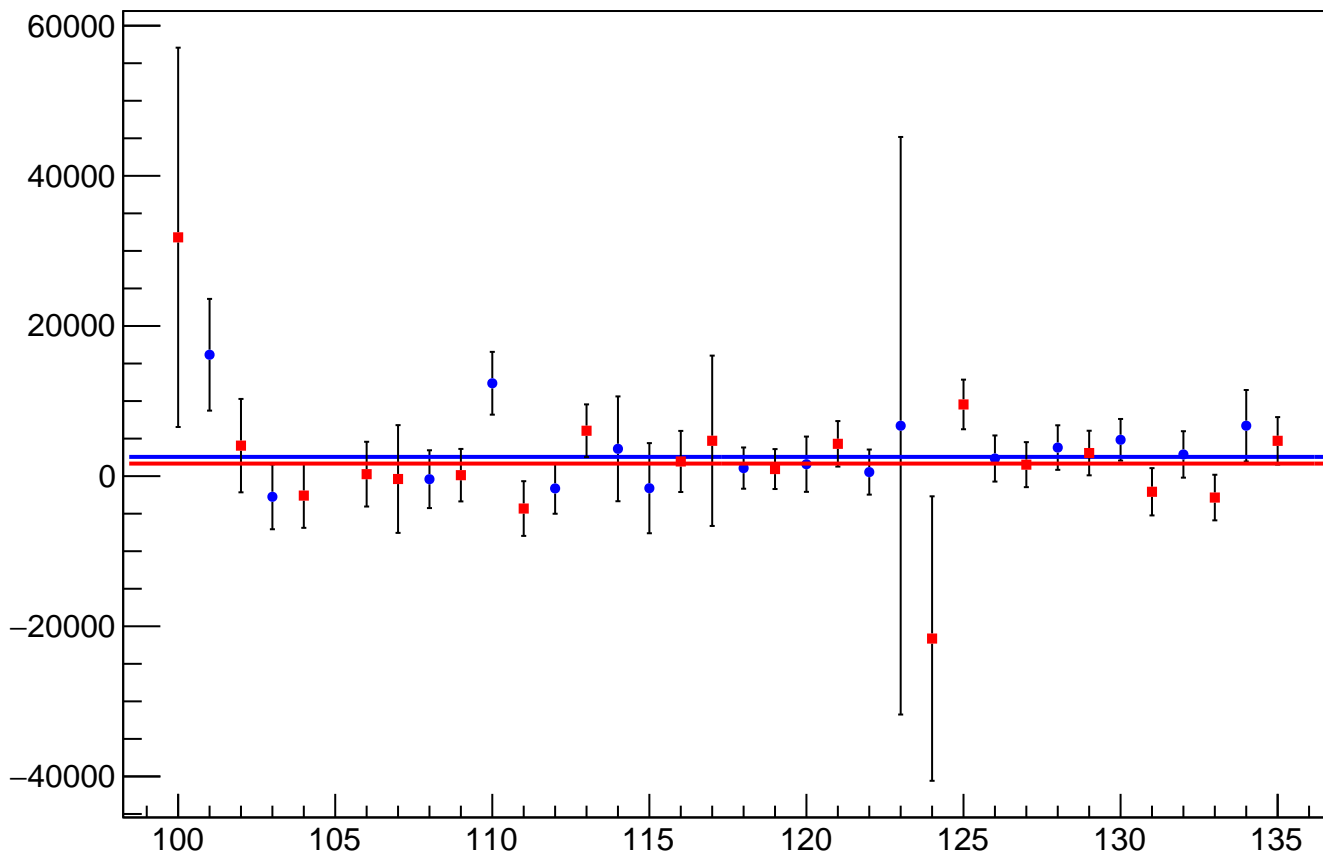
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

558.582+/-0.175  $\chi^2$ /NDF: 1199433.7/15

549.169+/-0.119  $\chi^2$ /NDF: 2591684.0/34

541.083+/-0.162  $\chi^2$ /NDF: 1386889.5/18

# asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 2563.110+/-933.237  $\chi^2/\text{NDF}$ : 15.5/15

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

Right Out: 1671.705+/-863.879  $\chi^2/\text{NDF}$ : 20.1/18

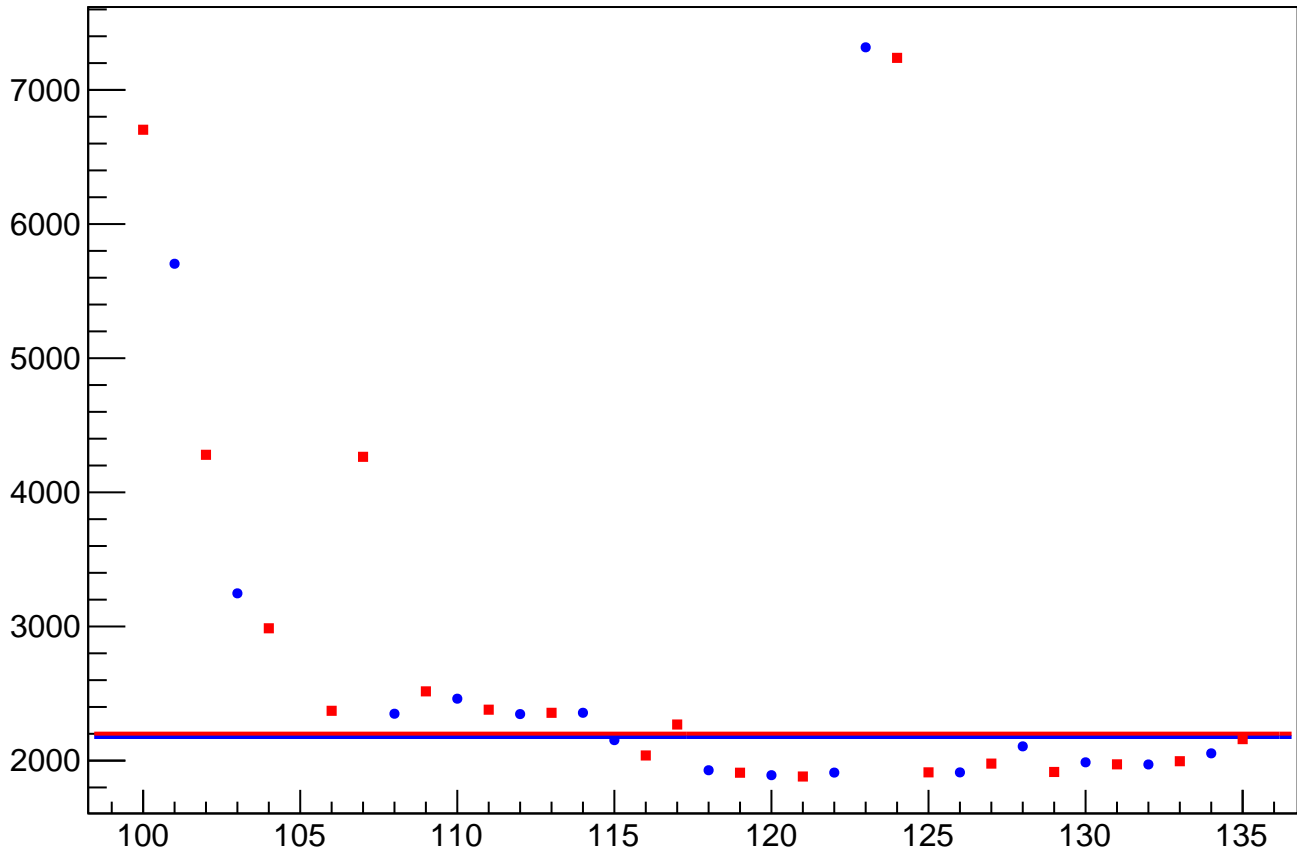
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2563.110+/-933.237  $\chi^2/\text{NDF}$ : 15.5/15

2083.056+/-633.958  $\chi^2/\text{NDF}$ : 36.0/34

1671.705+/-863.879  $\chi^2/\text{NDF}$ : 20.1/18

# asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 2176.261+/-0.660  $\chi^2$ /NDF: 706915.3/15

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

Right Out: 2201.178+/-0.611  $\chi^2$ /NDF: 803088.8/18

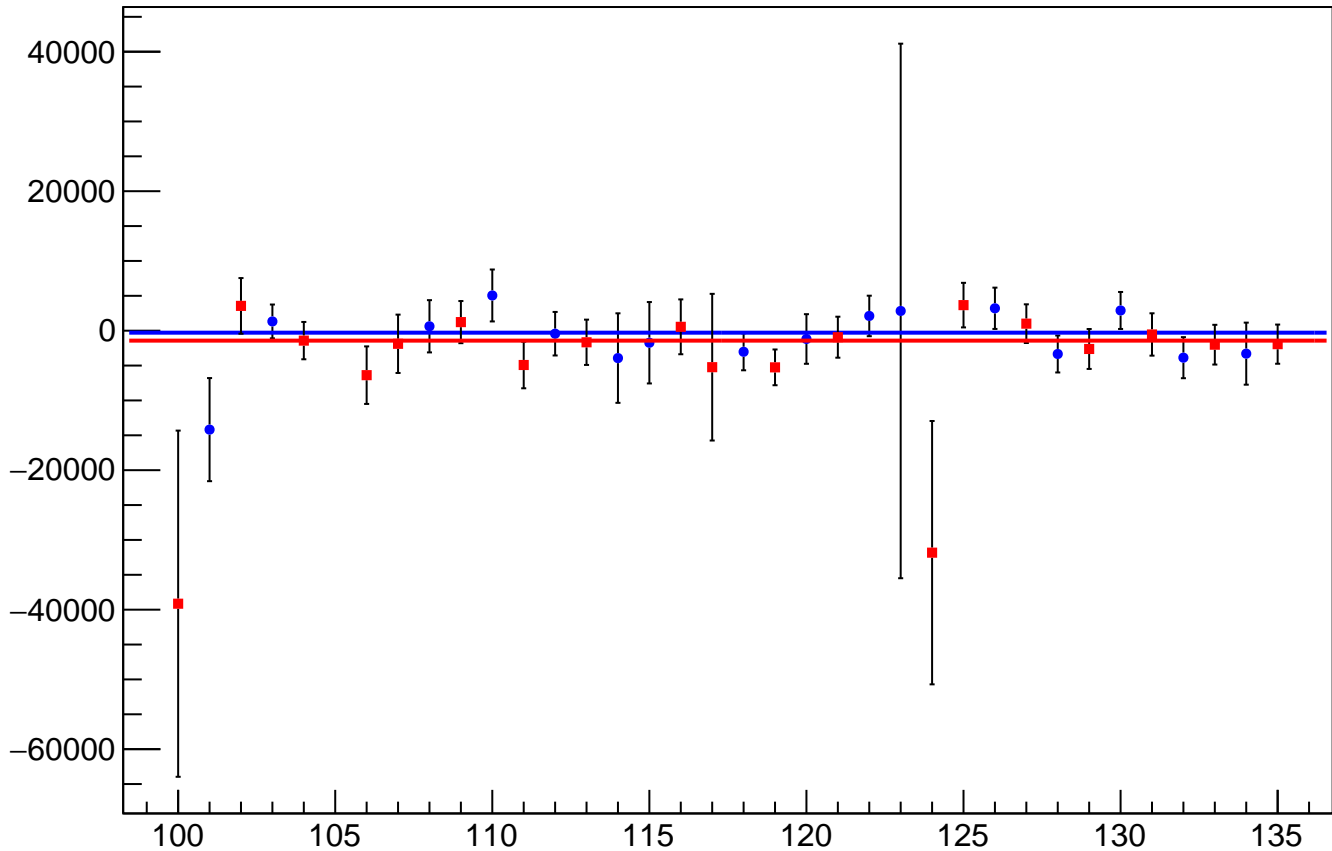
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2176.261+/-0.660  $\chi^2$ /NDF: 706915.3/15

2189.680+/-0.448  $\chi^2$ /NDF: 1510772.0/34

2201.178+/-0.611  $\chi^2$ /NDF: 803088.8/18

# reg\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In:  $-284.525 \pm 847.321$   $\chi^2/\text{NDF}: 14.4/15$

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

Right Out:  $-1424.420 \pm 774.500$   $\chi^2/\text{NDF}: 16.1/18$

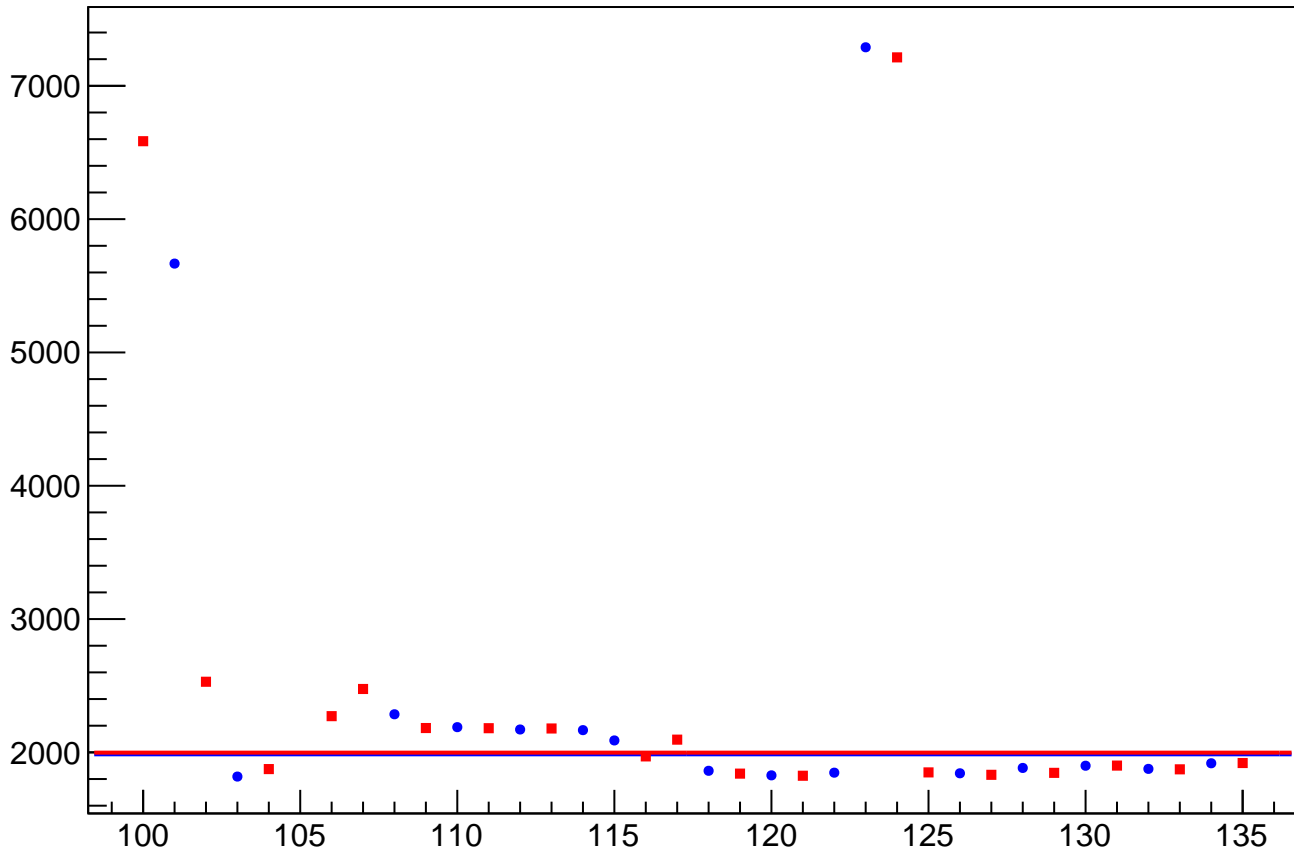
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-284.525 \pm 847.321$   $\chi^2/\text{NDF}: 14.4/15$

$-905.552 \pm 571.668$   $\chi^2/\text{NDF}: 31.5/34$

$-1424.420 \pm 774.500$   $\chi^2/\text{NDF}: 16.1/18$

# reg\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 1985.360+/-0.599  $\chi^2/\text{NDF}$ : 597684.8/15

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

Right Out: 1997.947+/-0.548  $\chi^2/\text{NDF}$ : 354669.8/18

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

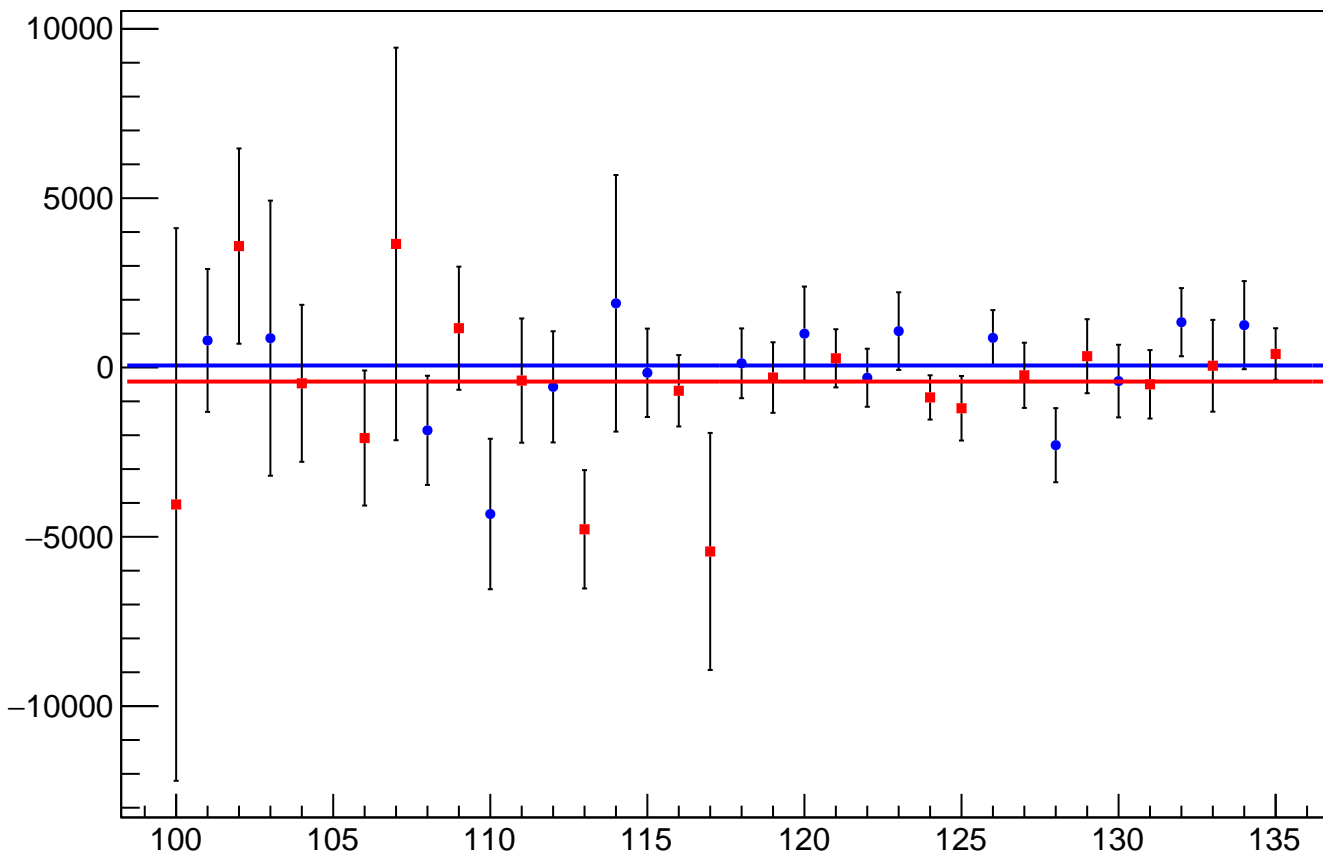
1985.360+/-0.599  $\chi^2/\text{NDF}$ : 597684.8/15

1992.217+/-0.404  $\chi^2/\text{NDF}$ : 952595.0/34

1997.947+/-0.548  $\chi^2/\text{NDF}$ : 354669.8/18



# asym\_at1\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $59.312 \pm 312.315$   $\chi^2/\text{NDF}: 15.6/15$

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

Right Out:  $-415.183 \pm 273.238$   $\chi^2/\text{NDF}: 16.0/18$

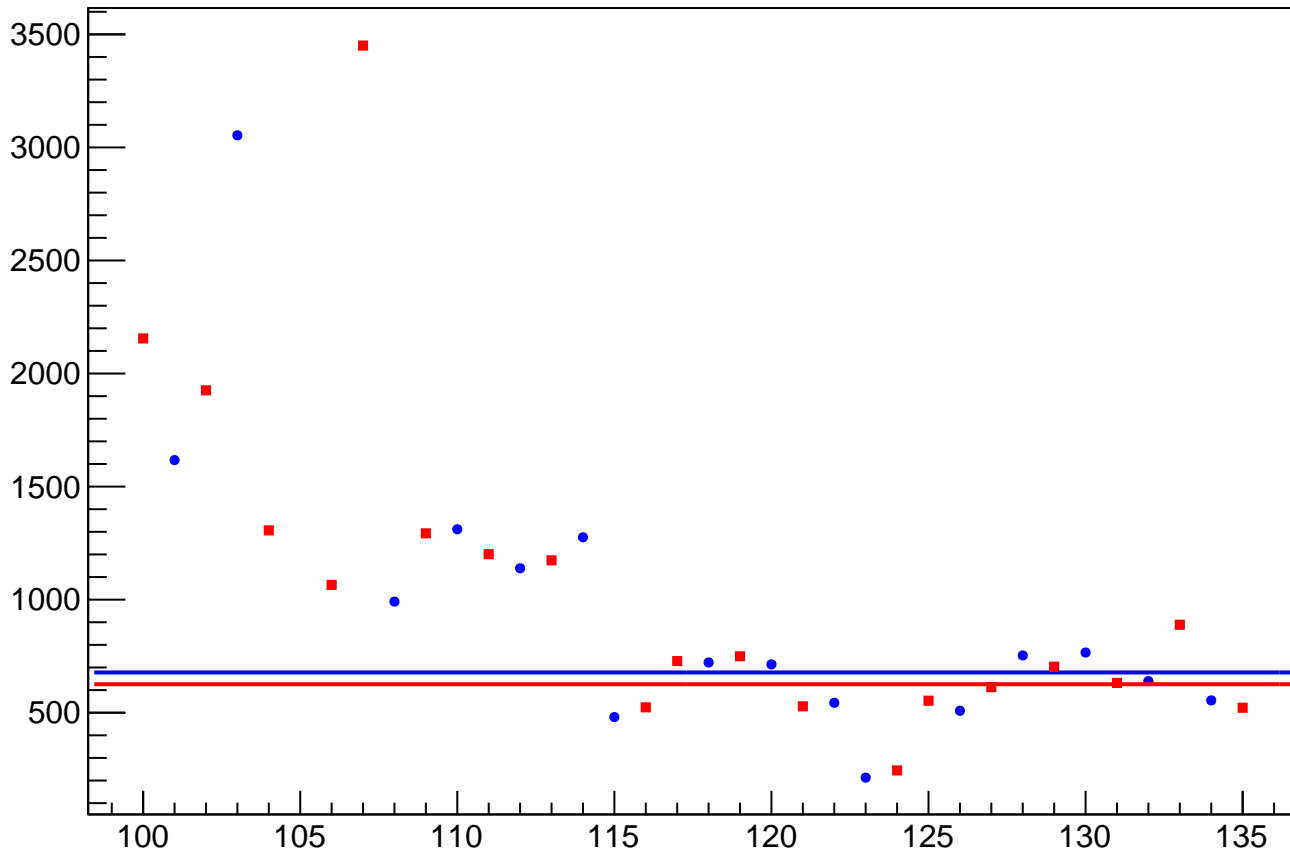
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$59.312 \pm 312.315$   $\chi^2/\text{NDF}: 15.6/15$

$-209.460 \pm 205.645$   $\chi^2/\text{NDF}: 32.9/34$

$-415.183 \pm 273.238$   $\chi^2/\text{NDF}: 16.0/18$

# asym\_at1\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 678.006+/-0.221  $\chi^2/\text{NDF}$ : 2084114.1/15

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

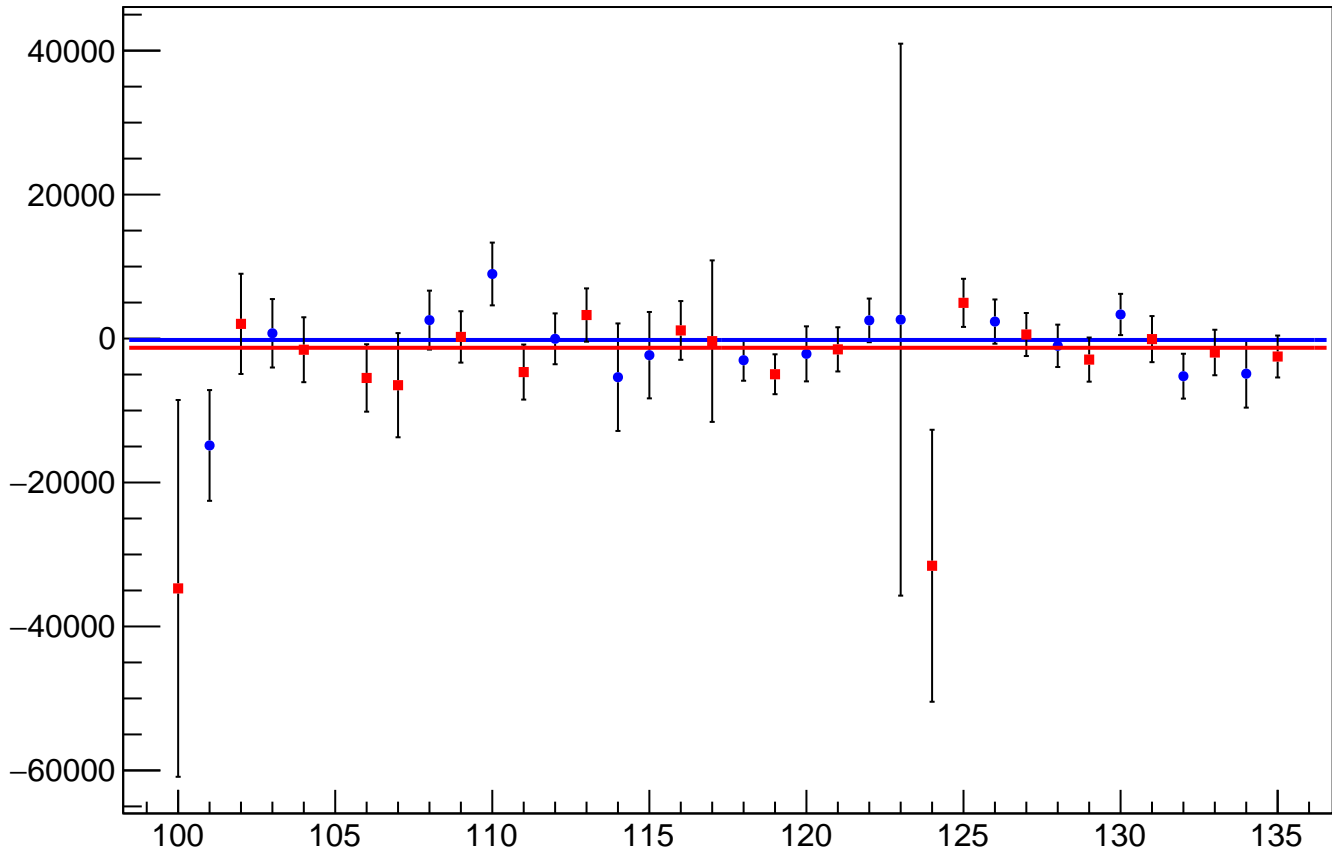
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

678.006+/-0.221  $\chi^2/\text{NDF}$ : 2084114.1/15

648.470+/-0.145  $\chi^2/\text{NDF}$ : 4888366.2/34

625.862+/-0.193  $\chi^2/\text{NDF}$ : 2772672.8/18

# asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In:  $-196.585 \pm 957.363$   $\chi^2/\text{NDF}: 17.1/15$

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

Right Out:  $-1282.195 \pm 881.716$   $\chi^2/\text{NDF}: 14.9/18$

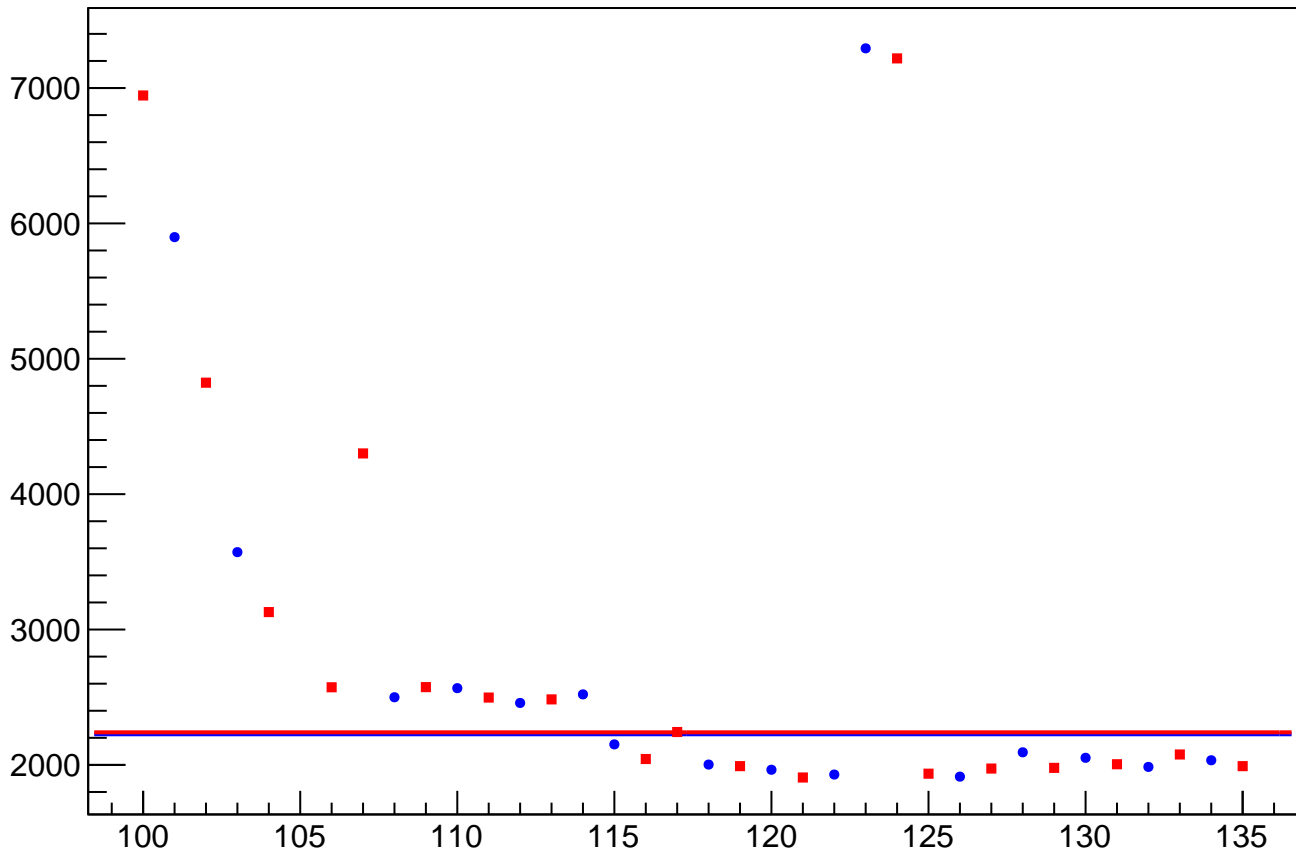
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-196.585 \pm 957.363$   $\chi^2/\text{NDF}: 17.1/15$

$-783.969 \pm 648.564$   $\chi^2/\text{NDF}: 32.6/34$

$-1282.195 \pm 881.716$   $\chi^2/\text{NDF}: 14.9/18$

# asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 2226.337+/-0.677  $\chi^2$ /NDF: 772249.6/15

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

Right Out: 2240.741+/-0.623  $\chi^2$ /NDF: 886598.9/18

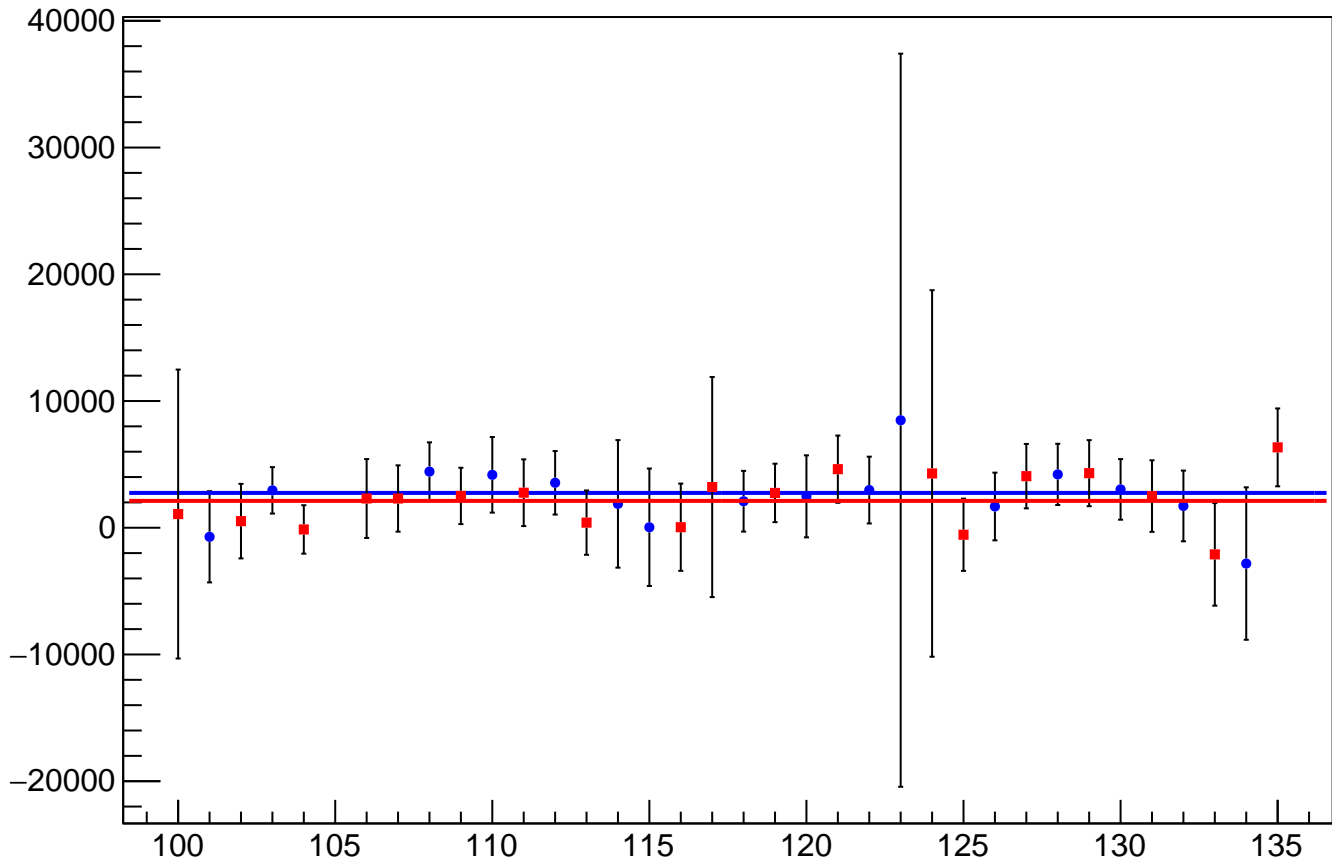
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2226.337+/-0.677  $\chi^2$ /NDF: 772249.6/15

2234.130+/-0.459  $\chi^2$ /NDF: 1659093.4/34

2240.741+/-0.623  $\chi^2$ /NDF: 886598.9/18

# reg\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: 2747.922+/-710.972  $\chi^2$ /NDF: 3.8/15

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

Right Out: 2119.087+/-659.610  $\chi^2$ /NDF: 8.8/18

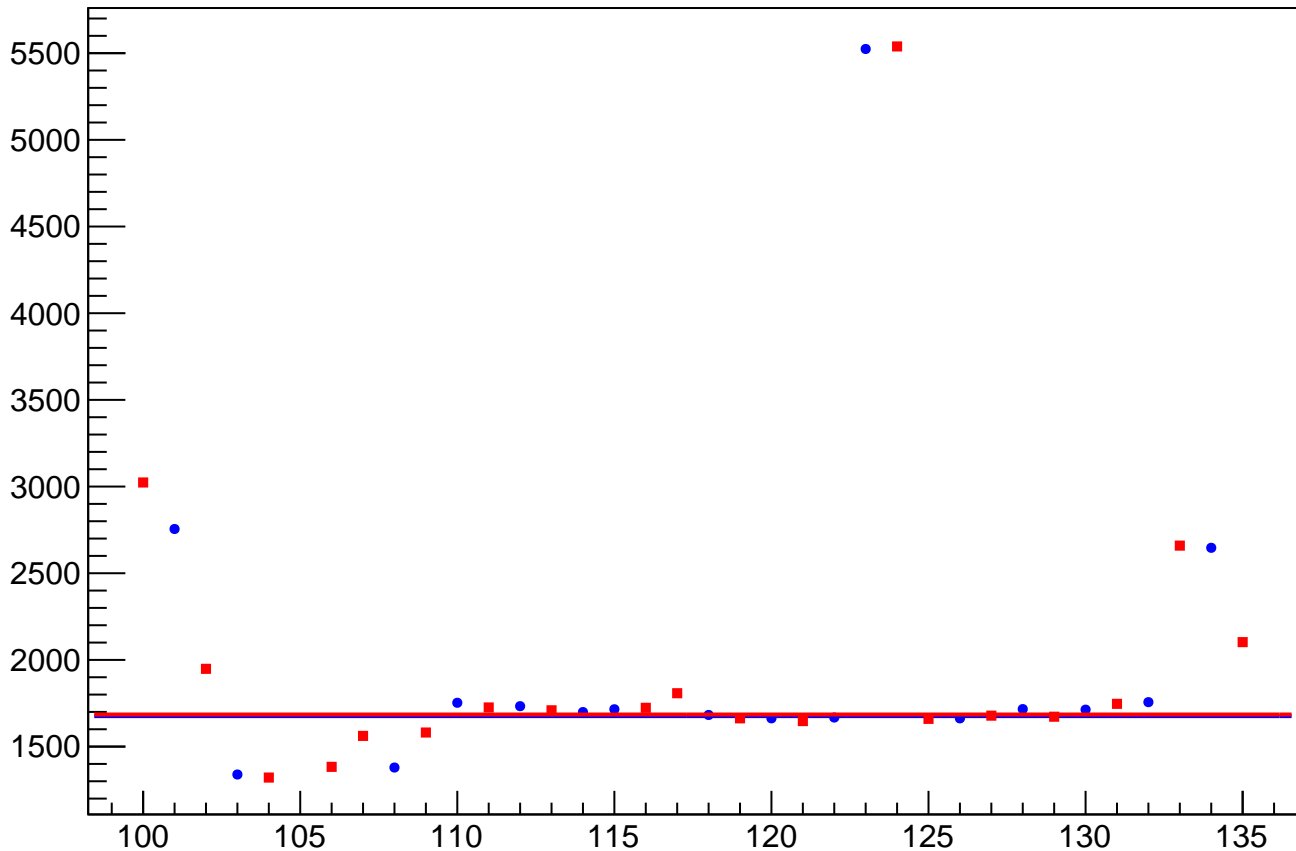
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2747.922+/-710.972  $\chi^2$ /NDF: 3.8/15

2409.972+/-483.554  $\chi^2$ /NDF: 13.0/34

2119.087+/-659.610  $\chi^2$ /NDF: 8.8/18

# reg\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 1675.718+/-0.503  $\chi^2$ /NDF: 373544.3/15

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

Right Out: 1684.982+/-0.466  $\chi^2$ /NDF: 441661.4/18

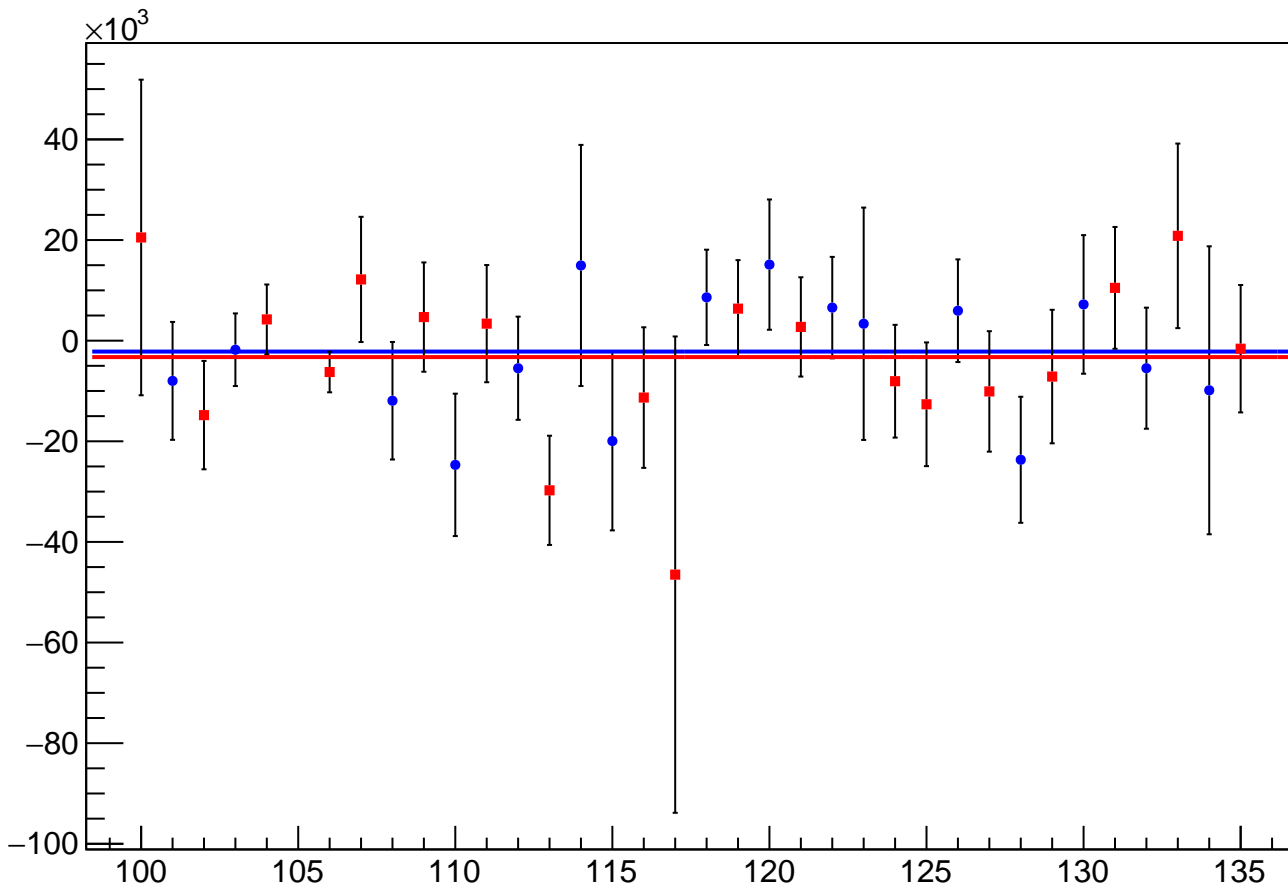
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1675.718+/-0.503  $\chi^2$ /NDF: 373544.3/15

1680.697+/-0.342  $\chi^2$ /NDF: 815388.2/34

1684.982+/-0.466  $\chi^2$ /NDF: 441661.4/18

# asym\_at2\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-2166.390 \pm 2995.618$   $\chi^2/\text{NDF}: 13.2/15$

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

Right Out:  $-3265.988 \pm 2279.035$   $\chi^2/\text{NDF}: 18.5/18$

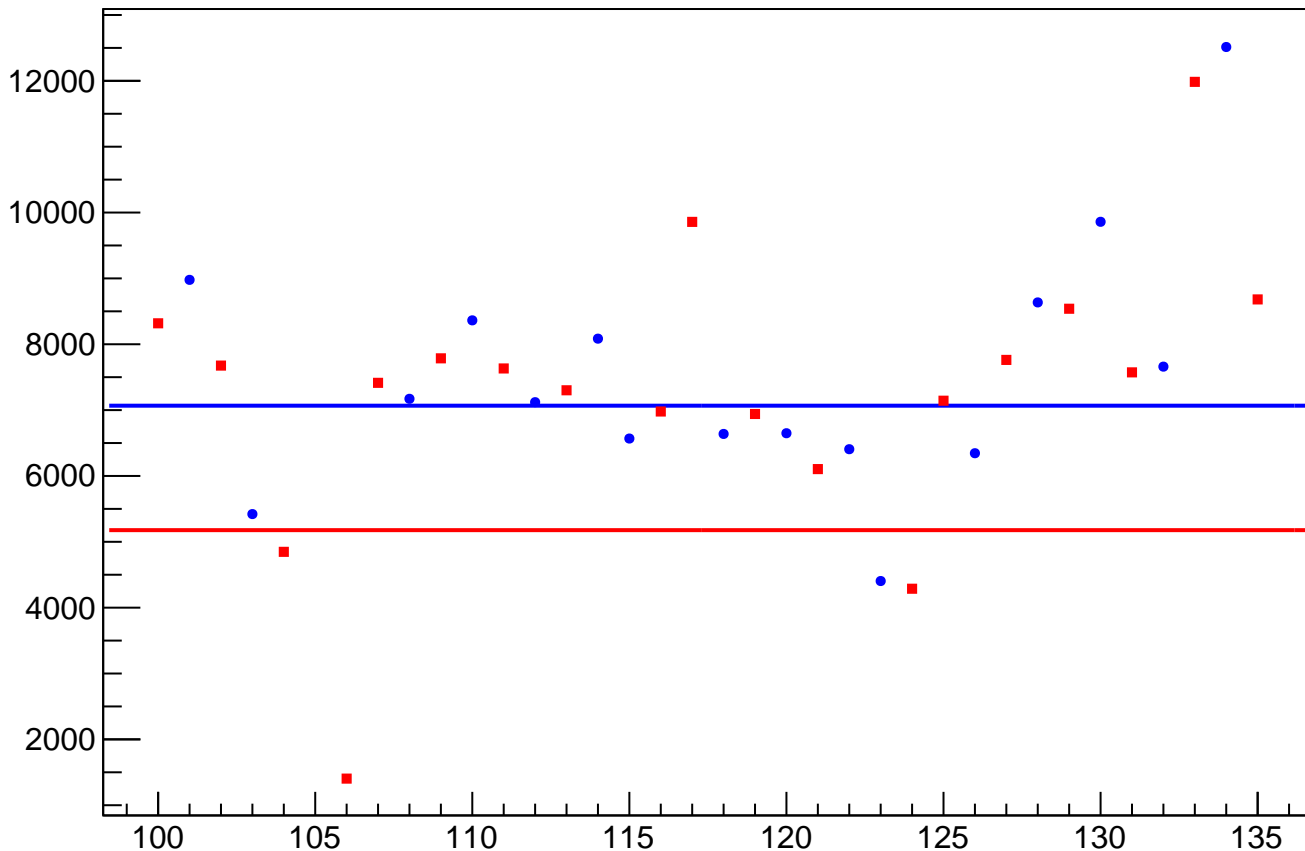
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2166.390 \pm 2995.618$   $\chi^2/\text{NDF}: 13.2/15$

$-2862.866 \pm 1813.791$   $\chi^2/\text{NDF}: 31.8/34$

$-3265.988 \pm 2279.035$   $\chi^2/\text{NDF}: 18.5/18$

# asym\_at2\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 7067.058+/-2.118  $\chi^2$ /NDF: 421619.4/15

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

Right Out: 5177.057+/-1.612  $\chi^2$ /NDF: 3157681.0/18

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

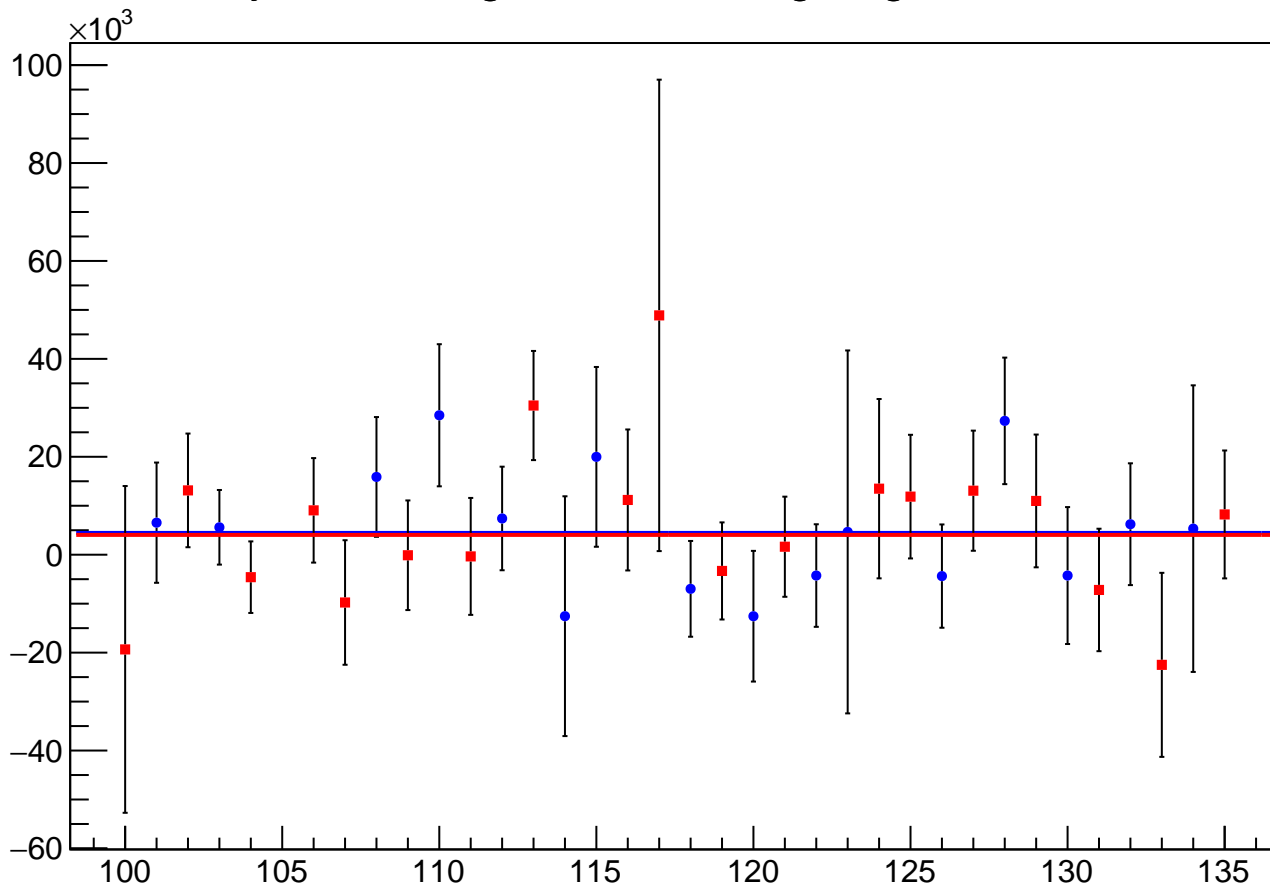
7067.058+/-2.118  $\chi^2$ /NDF: 421619.4/15

5869.946+/-1.283  $\chi^2$ /NDF: 4083558.9/34

5177.057+/-1.612  $\chi^2$ /NDF: 3157681.0/18



# asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: 4449.511+/-3123.803  $\chi^2$ /NDF: 12.9/15

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

Right Out: 4047.341+/-2812.199  $\chi^2$ /NDF: 15.9/18

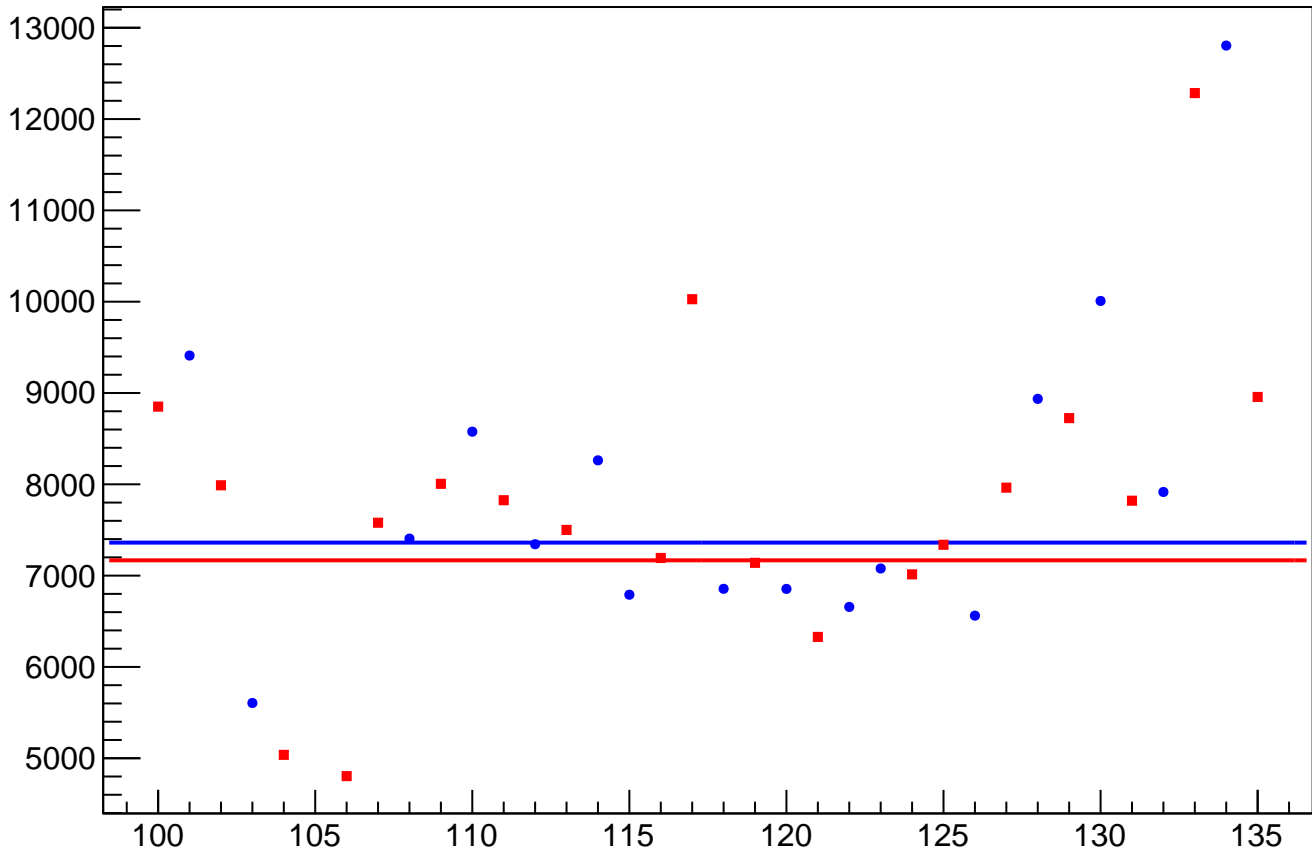
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

4449.511+/-3123.803  $\chi^2$ /NDF: 12.9/15

4227.373+/-2090.033  $\chi^2$ /NDF: 28.7/34

4047.341+/-2812.199  $\chi^2$ /NDF: 15.9/18

# asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 7361.621+/-2.209  $\chi^2/\text{NDF}$ : 383968.5/15

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

Right Out: 7167.606+/-1.988  $\chi^2/\text{NDF}$ : 551641.6/18

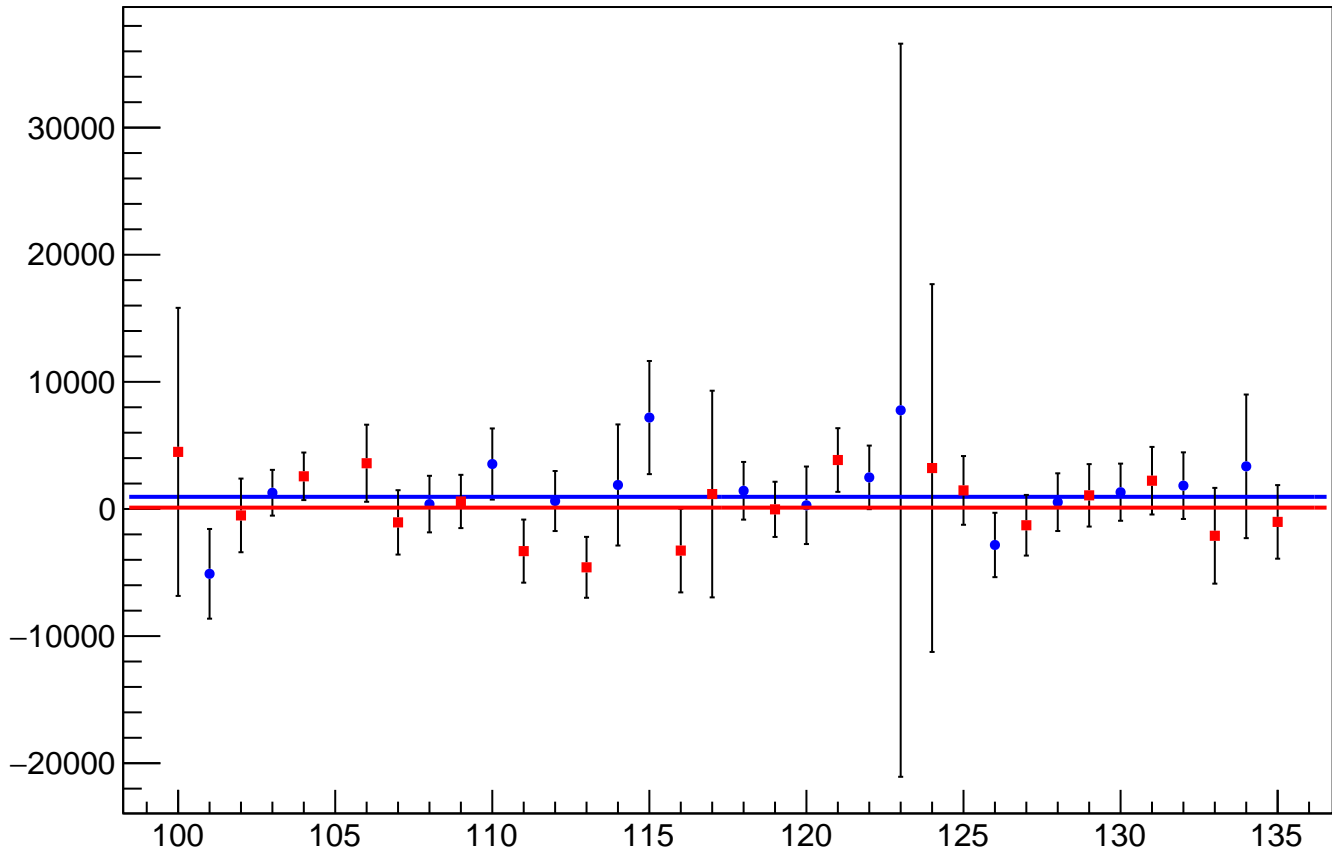
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7361.621+/-2.209  $\chi^2/\text{NDF}$ : 383968.5/15

7254.447+/-1.478  $\chi^2/\text{NDF}$ : 939872.1/34

7167.606+/-1.988  $\chi^2/\text{NDF}$ : 551641.6/18

# reg\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: 955.256+/-677.229  $\chi^2$ /NDF: 9.0/15

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

Right Out: 105.523+/-628.029  $\chi^2$ /NDF: 14.5/18

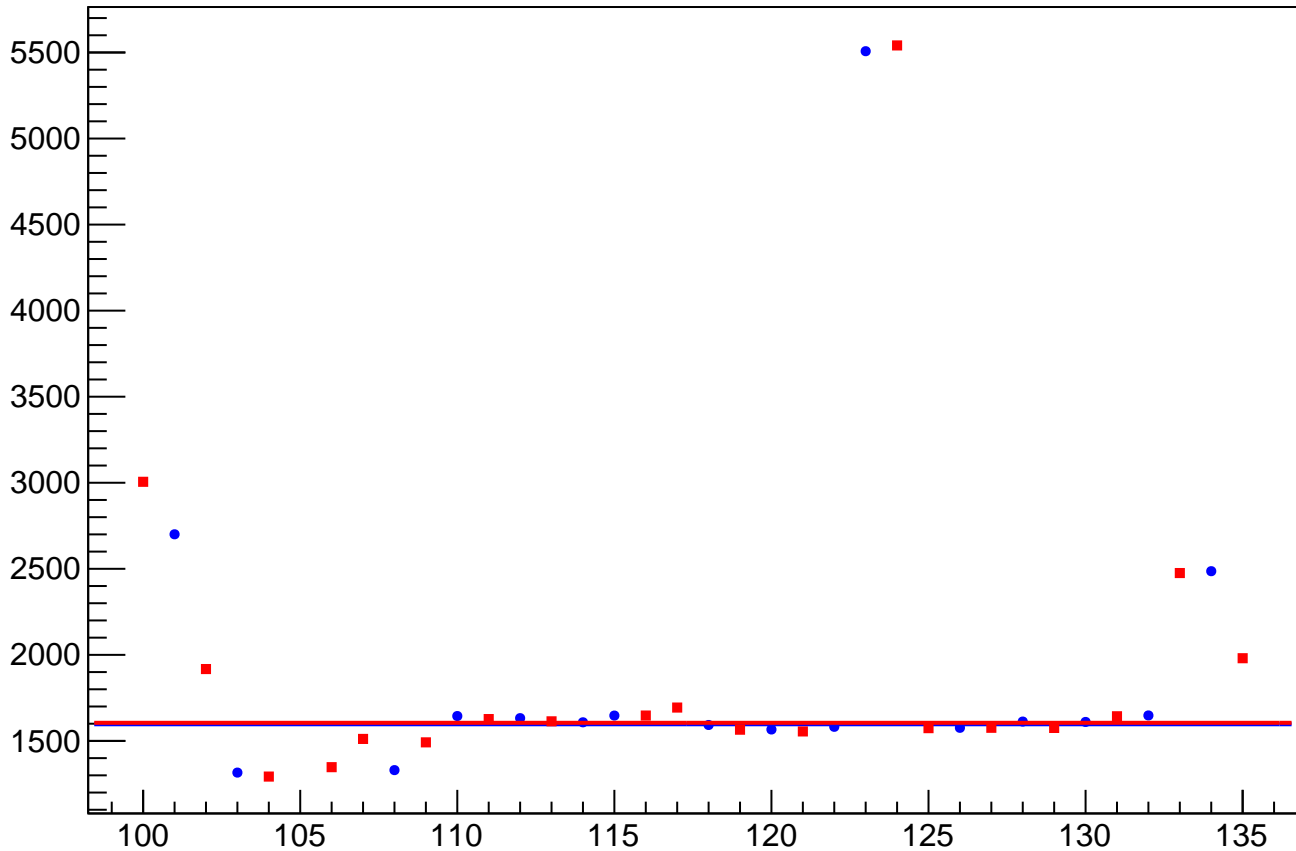
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

955.256+/-677.229  $\chi^2$ /NDF: 9.0/15

498.405+/-460.496  $\chi^2$ /NDF: 24.4/34

105.523+/-628.029  $\chi^2$ /NDF: 14.5/18

# reg\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 1596.689+/-0.479  $\chi^2$ /NDF: 362078.6/15

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

Right Out: 1605.273+/-0.444  $\chi^2$ /NDF: 424527.9/18

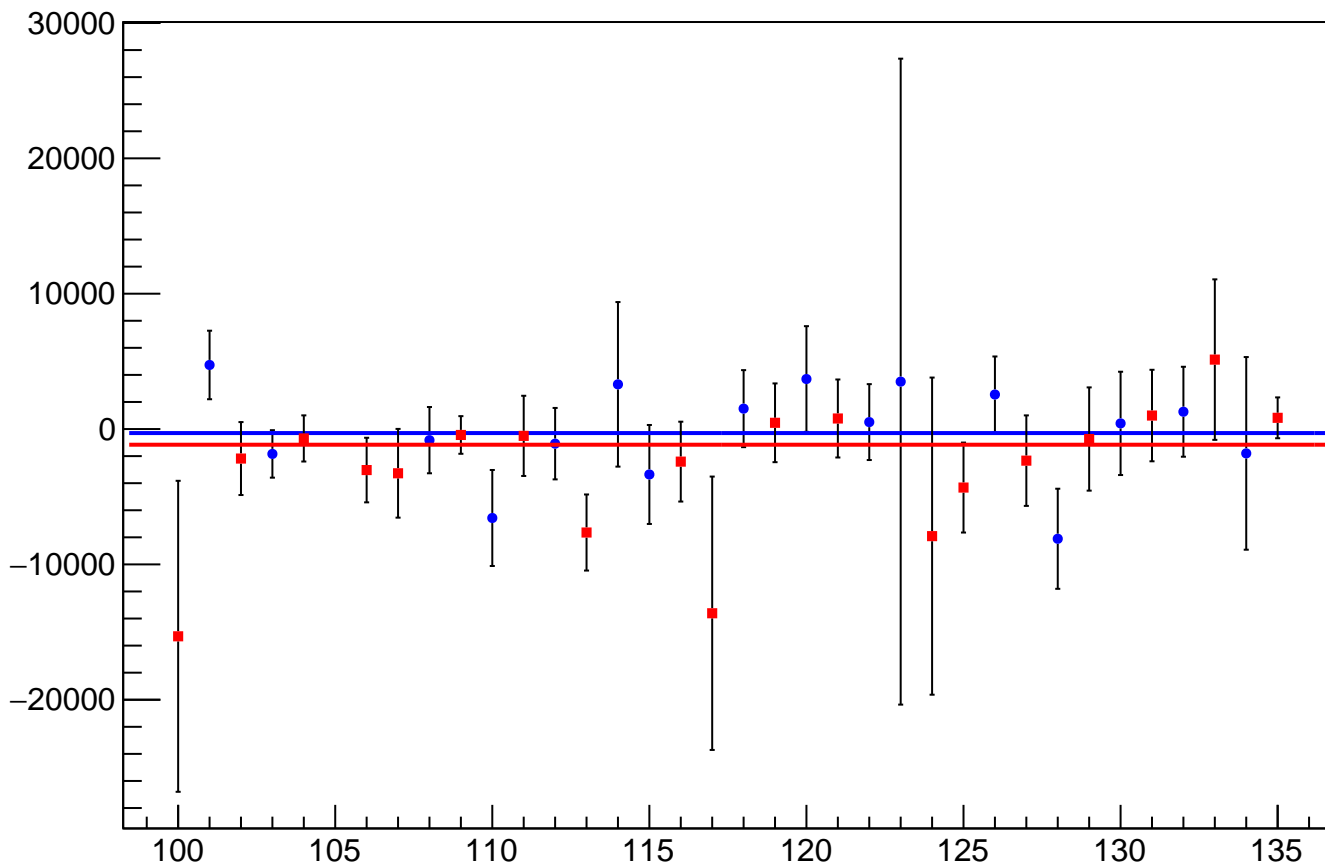
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1596.689+/-0.479  $\chi^2$ /NDF: 362078.6/15

1601.304+/-0.326  $\chi^2$ /NDF: 786779.2/34

1605.273+/-0.444  $\chi^2$ /NDF: 424527.9/18

# asym\_at2\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-296.997 \pm 773.906$   $\chi^2/\text{NDF}: 16.4/15$

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

Right Out:  $-1157.983 \pm 609.658$   $\chi^2/\text{NDF}: 15.5/18$

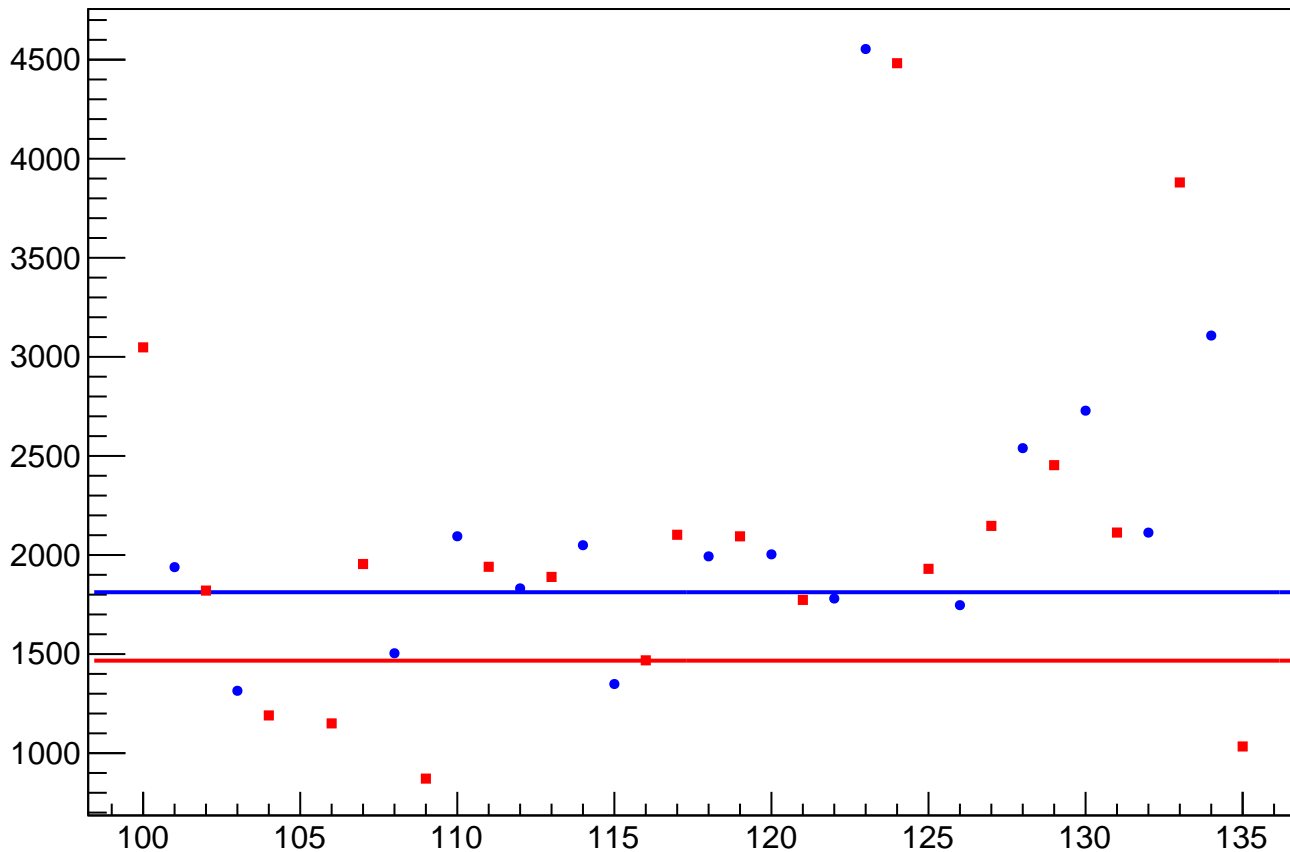
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-296.997 \pm 773.906$   $\chi^2/\text{NDF}: 16.4/15$

$-828.281 \pm 478.907$   $\chi^2/\text{NDF}: 32.7/34$

$-1157.983 \pm 609.658$   $\chi^2/\text{NDF}: 15.5/18$

# asym\_at2\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1812.199+/-0.547  $\chi^2/\text{NDF}$ : 561371.9/15

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

Right Out: 1466.822+/-0.431  $\chi^2/\text{NDF}$ : 1748216.7/18

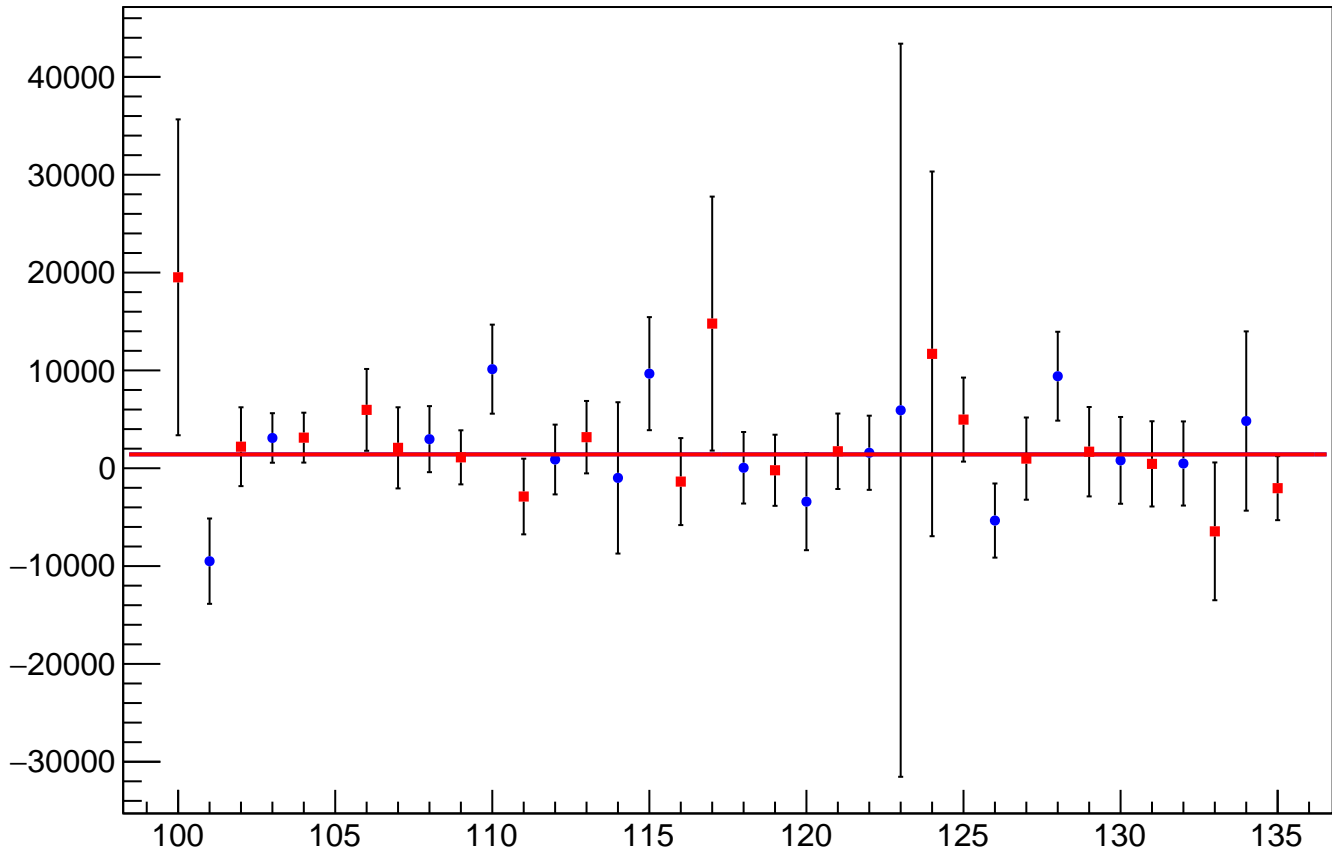
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1812.199+/-0.547  $\chi^2/\text{NDF}$ : 561371.9/15

1599.079+/-0.339  $\chi^2/\text{NDF}$ : 2555381.8/34

1466.822+/-0.431  $\chi^2/\text{NDF}$ : 1748216.7/18

# asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: 1419.036 $\pm$ 1059.659  $\chi^2$ /NDF: 20.3/15

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

Right Out: 1413.476 $\pm$ 939.540  $\chi^2$ /NDF: 9.5/18

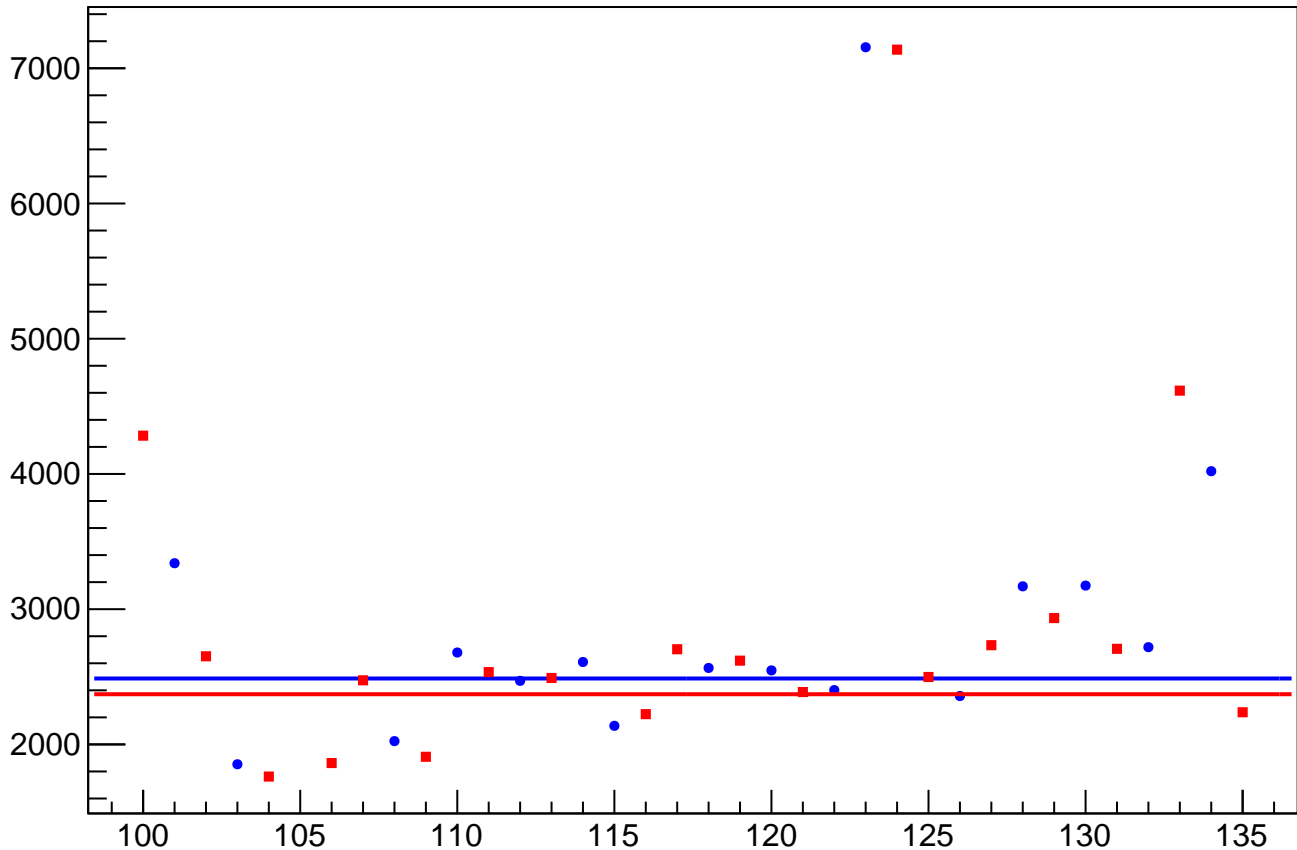
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1419.036 $\pm$ 1059.659  $\chi^2$ /NDF: 20.3/15

1415.923 $\pm$ 703.004  $\chi^2$ /NDF: 29.8/34

1413.476 $\pm$ 939.540  $\chi^2$ /NDF: 9.5/18

# asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 2487.521+/-0.749  $\chi^2$ /NDF: 441421.6/15

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

Right Out: 2371.165+/-0.664  $\chi^2$ /NDF: 653506.0/18

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

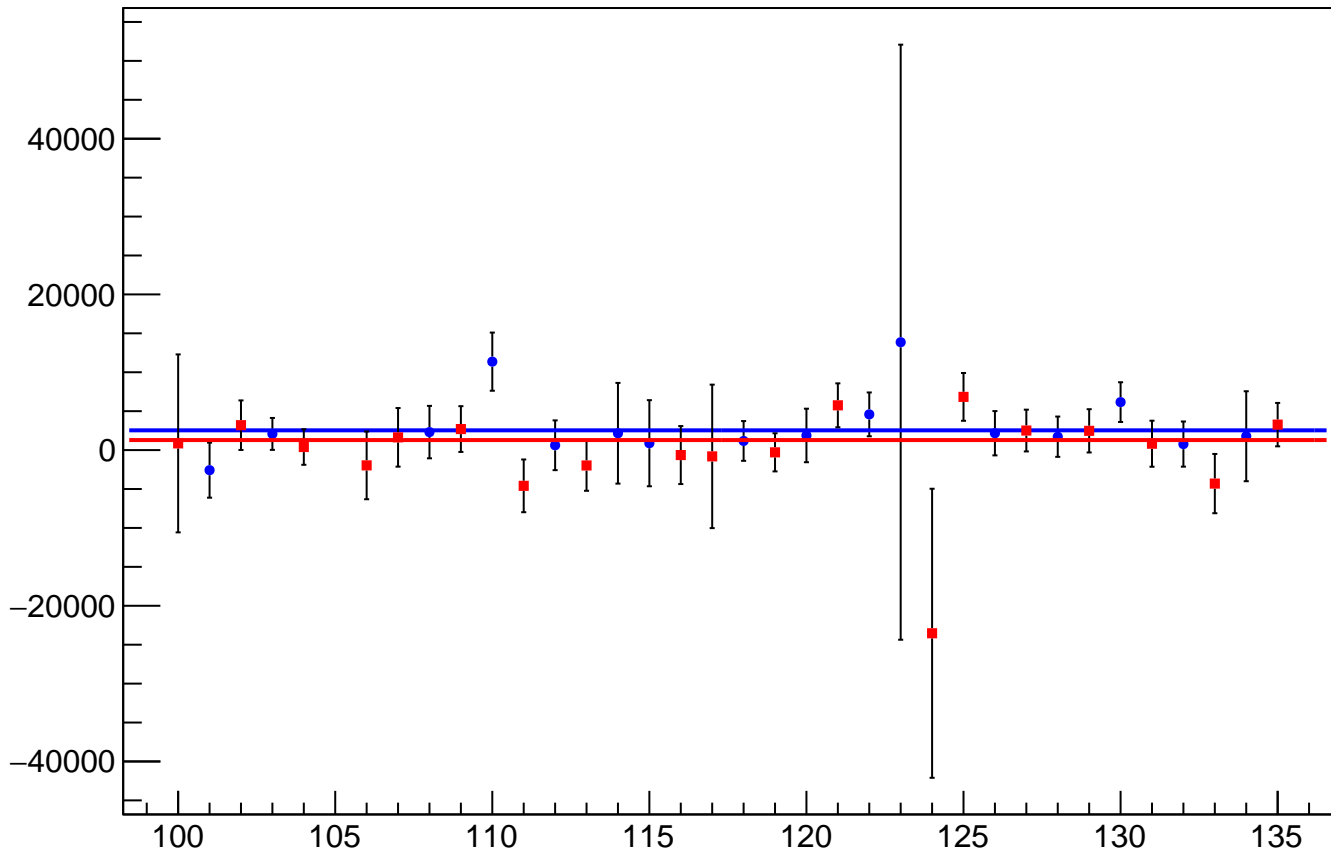
2487.521+/-0.749  $\chi^2$ /NDF: 441421.6/15

2422.377+/-0.497  $\chi^2$ /NDF: 1108428.7/34

2371.165+/-0.664  $\chi^2$ /NDF: 653506.0/18



# reg\_asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



Right In: 2538.419+/-797.612  $\chi^2$ /NDF: 11.6/15

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

Right Out: 1287.437+/-748.583  $\chi^2$ /NDF: 16.7/18

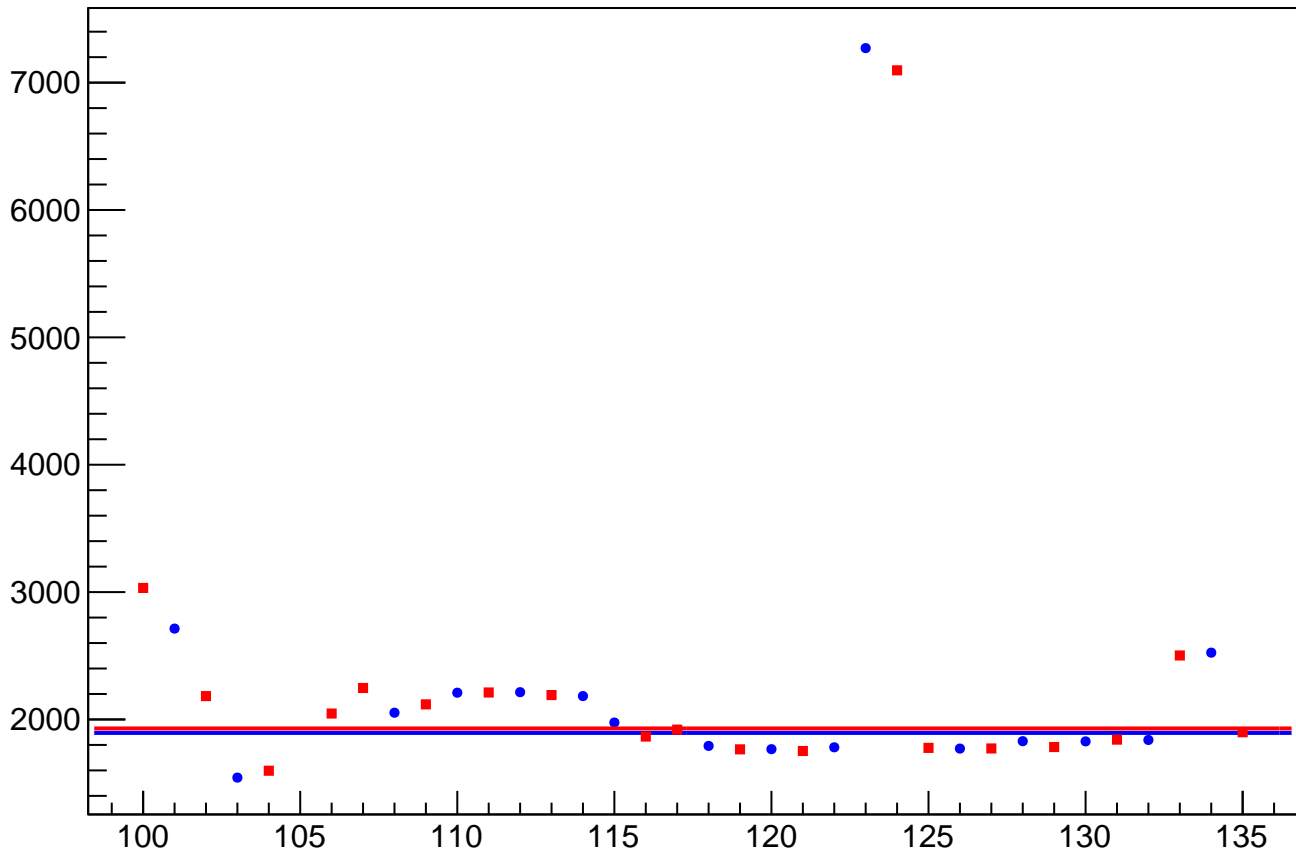
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2538.419+/-797.612  $\chi^2$ /NDF: 11.6/15

1873.300+/-545.839  $\chi^2$ /NDF: 29.6/34

1287.437+/-748.583  $\chi^2$ /NDF: 16.7/18

# reg\_asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



Right In: 1894.215+/-0.564  $\chi^2$ /NDF: 288654.7/15

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

Right Out: 1929.296+/-0.528  $\chi^2$ /NDF: 361573.4/18

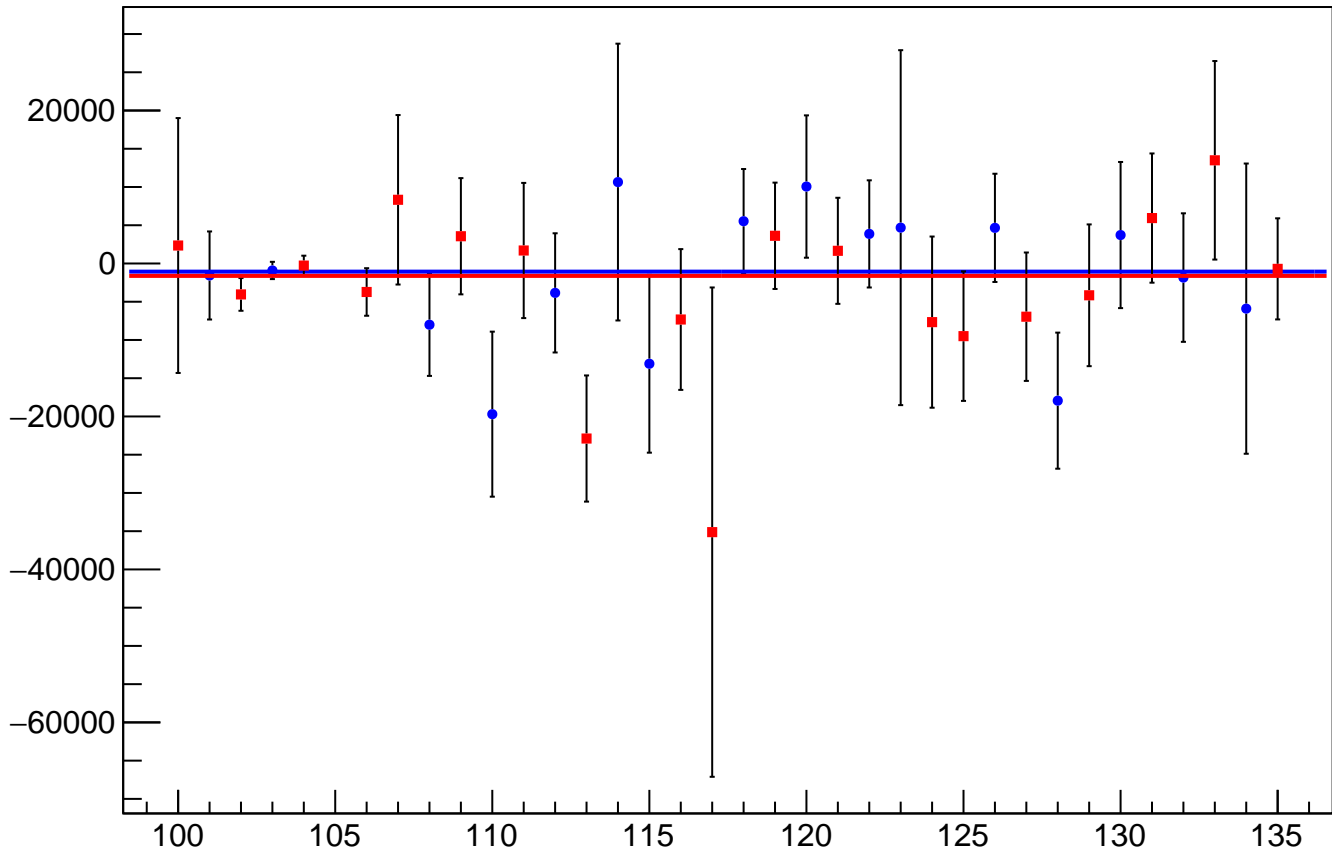
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1894.215+/-0.564  $\chi^2$ /NDF: 288654.7/15

1912.895+/-0.386  $\chi^2$ /NDF: 652288.2/34

1929.296+/-0.528  $\chi^2$ /NDF: 361573.4/18

# asym\_atl1r2\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-1064.572 \pm 1005.807$   $\chi^2/\text{NDF}: 13.2/15$

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

Right Out:  $-1622.229 \pm 945.141$   $\chi^2/\text{NDF}: 17.0/18$

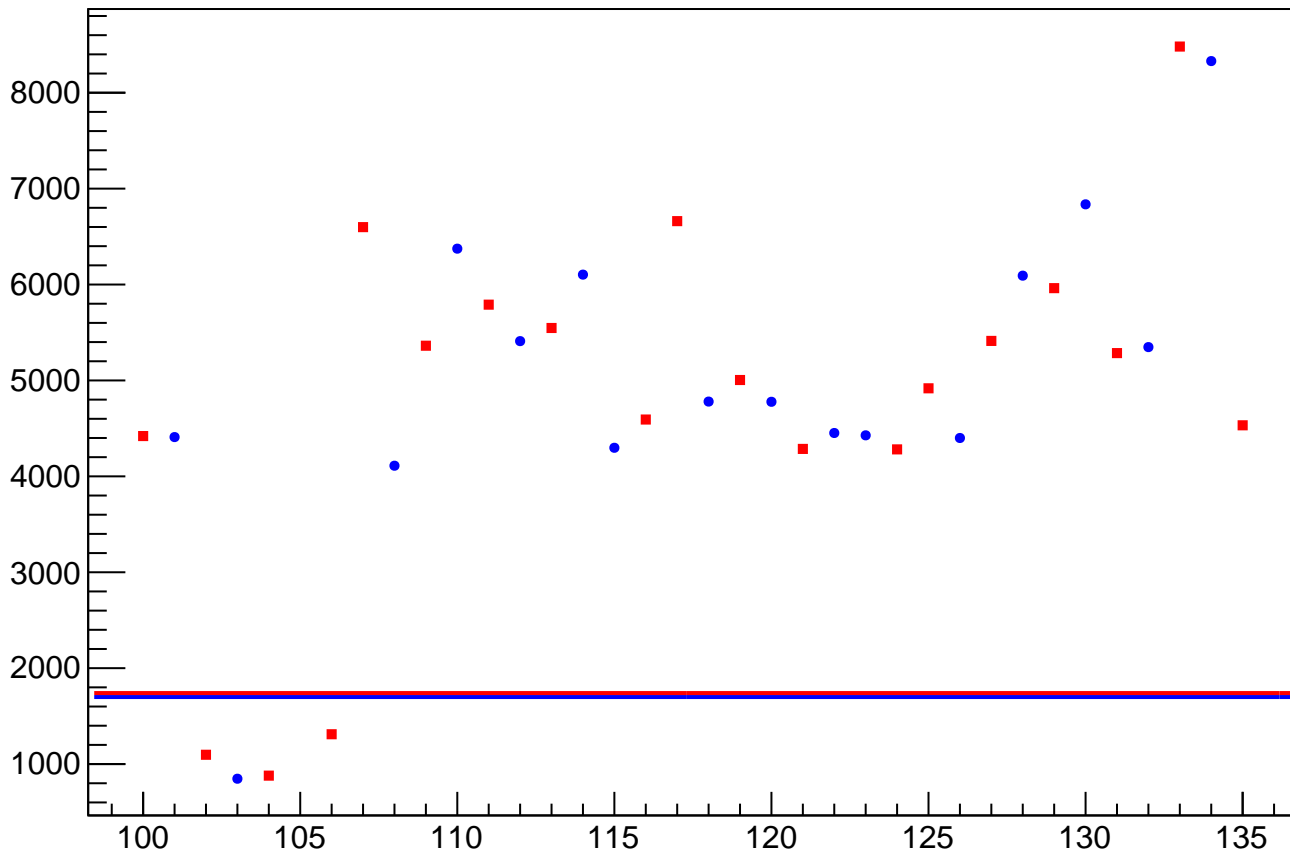
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1064.572 \pm 1005.807$   $\chi^2/\text{NDF}: 13.2/15$

$-1360.724 \pm 688.765$   $\chi^2/\text{NDF}: 30.4/34$

$-1622.229 \pm 945.141$   $\chi^2/\text{NDF}: 17.0/18$

# asym\_atl1r2\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1699.025+/-0.711  $\chi^2$ /NDF: 5831354.5/15

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

Right Out: 1740.504+/-0.668  $\chi^2$ /NDF: 6220212.5/18

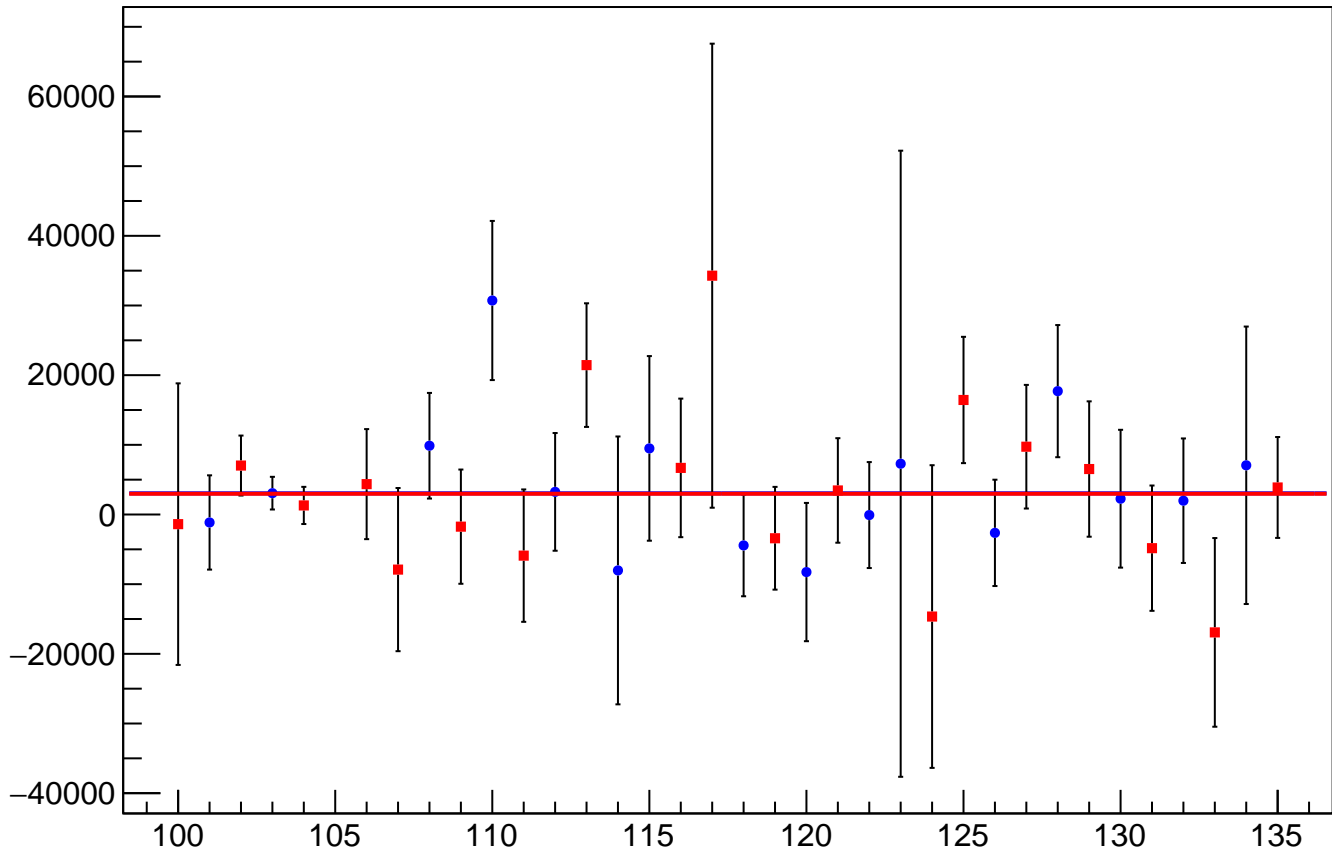
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1699.025+/-0.711  $\chi^2$ /NDF: 5831354.5/15

1721.053+/-0.487  $\chi^2$ /NDF: 12053373.3/3

1740.504+/-0.668  $\chi^2$ /NDF: 6220212.5/18

# asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



Right In: 3043.336+/-1686.810  $\chi^2$ /NDF: 13.2/15

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

Right Out: 2976.835+/-1620.996  $\chi^2$ /NDF: 16.0/18

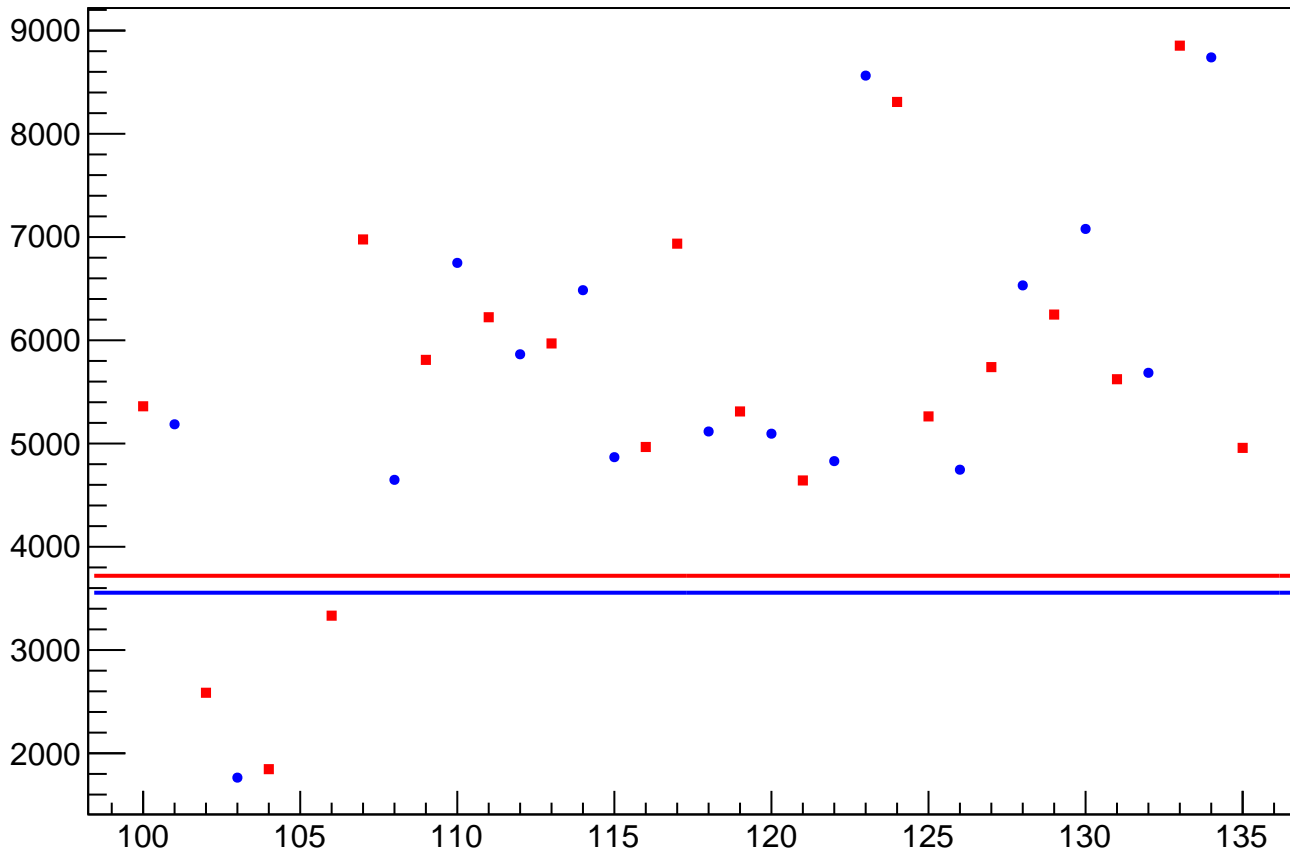
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3043.336+/-1686.810  $\chi^2$ /NDF: 13.2/15

3008.763+/-1168.792  $\chi^2$ /NDF: 29.2/34

2976.835+/-1620.996  $\chi^2$ /NDF: 16.0/18

# asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



Right In: 3555.089+/-1.193  $\chi^2/\text{NDF}$ : 2666114.9/15

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

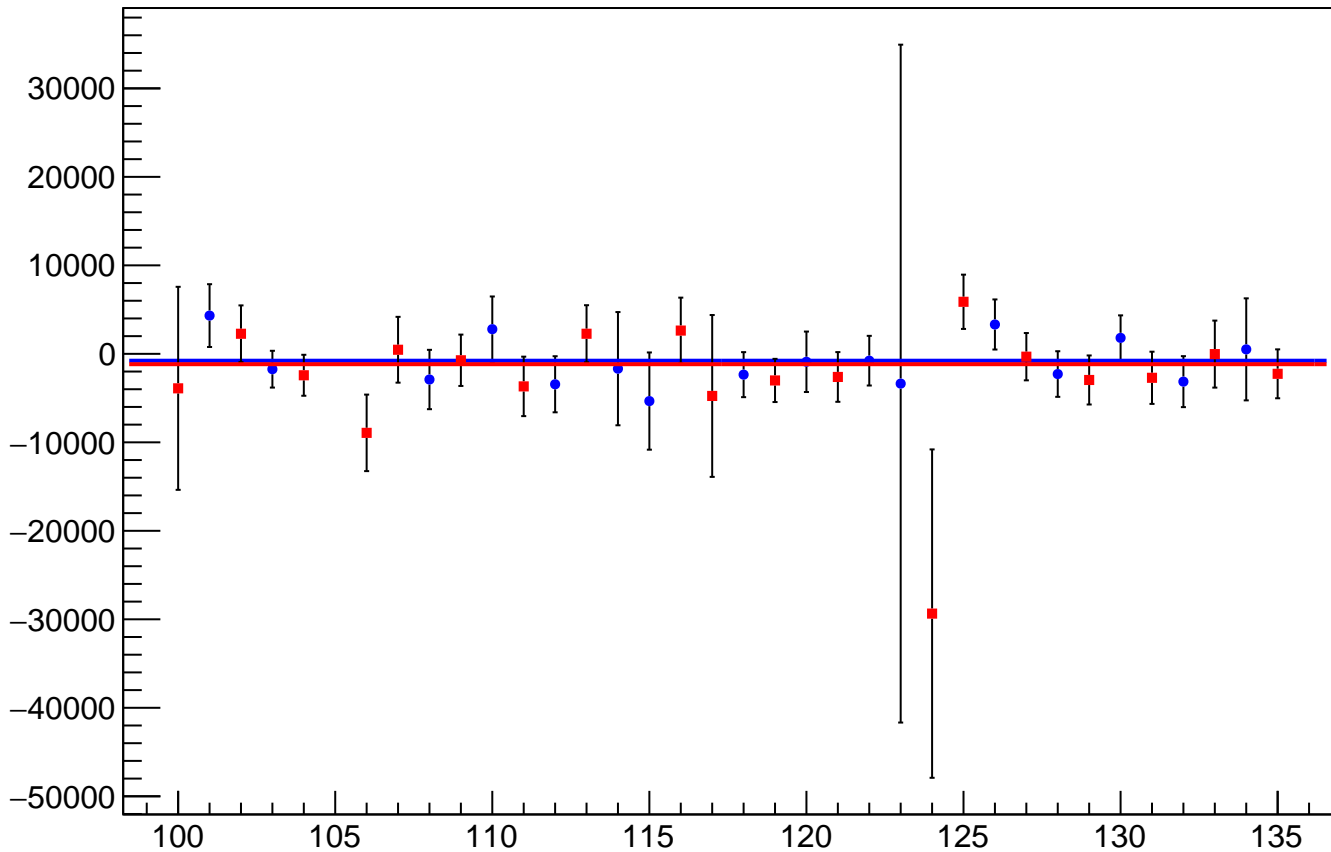
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3555.089+/-1.193  $\chi^2/\text{NDF}$ : 2666114.9/15

3640.948+/-0.824  $\chi^2/\text{NDF}$ : 5368555.5/34

3719.169+/-1.138  $\chi^2/\text{NDF}$ : 2692538.1/18

# reg\_asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



Right In:  $-776.943 \pm 795.945$   $\chi^2/\text{NDF}$ : 9.6/15

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

Right Out:  $-1170.182 \pm 746.468$   $\chi^2/\text{NDF}$ : 17.3/18

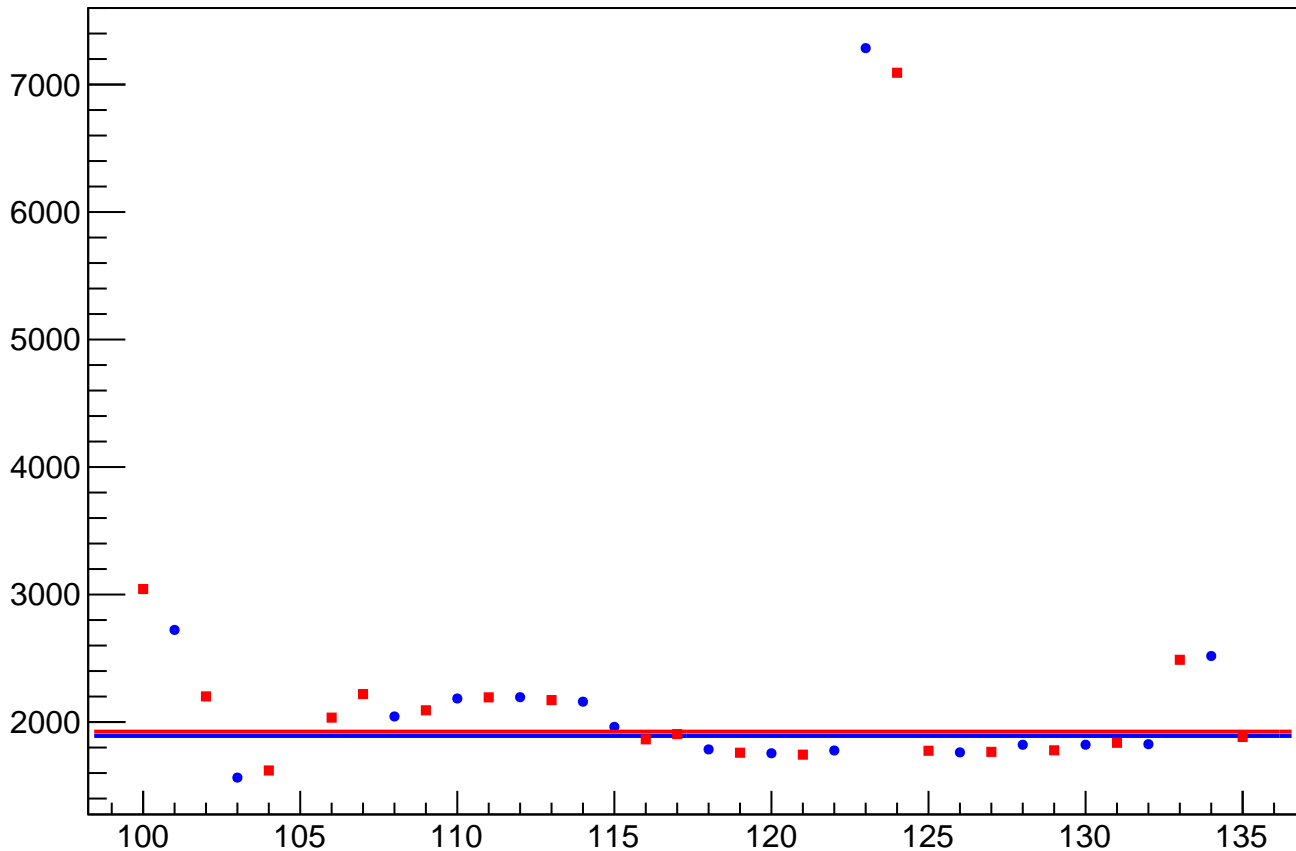
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-776.943 \pm 795.945$   $\chi^2/\text{NDF}$ : 9.6/15

$-986.164 \pm 544.484$   $\chi^2/\text{NDF}$ : 27.0/34

$-1170.182 \pm 746.468$   $\chi^2/\text{NDF}$ : 17.3/18

# reg\_asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



Right In: 1890.968+/-0.563  $\chi^2$ /NDF: 279688.5/15

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

Right Out: 1924.909+/-0.527  $\chi^2$ /NDF: 350781.6/18

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

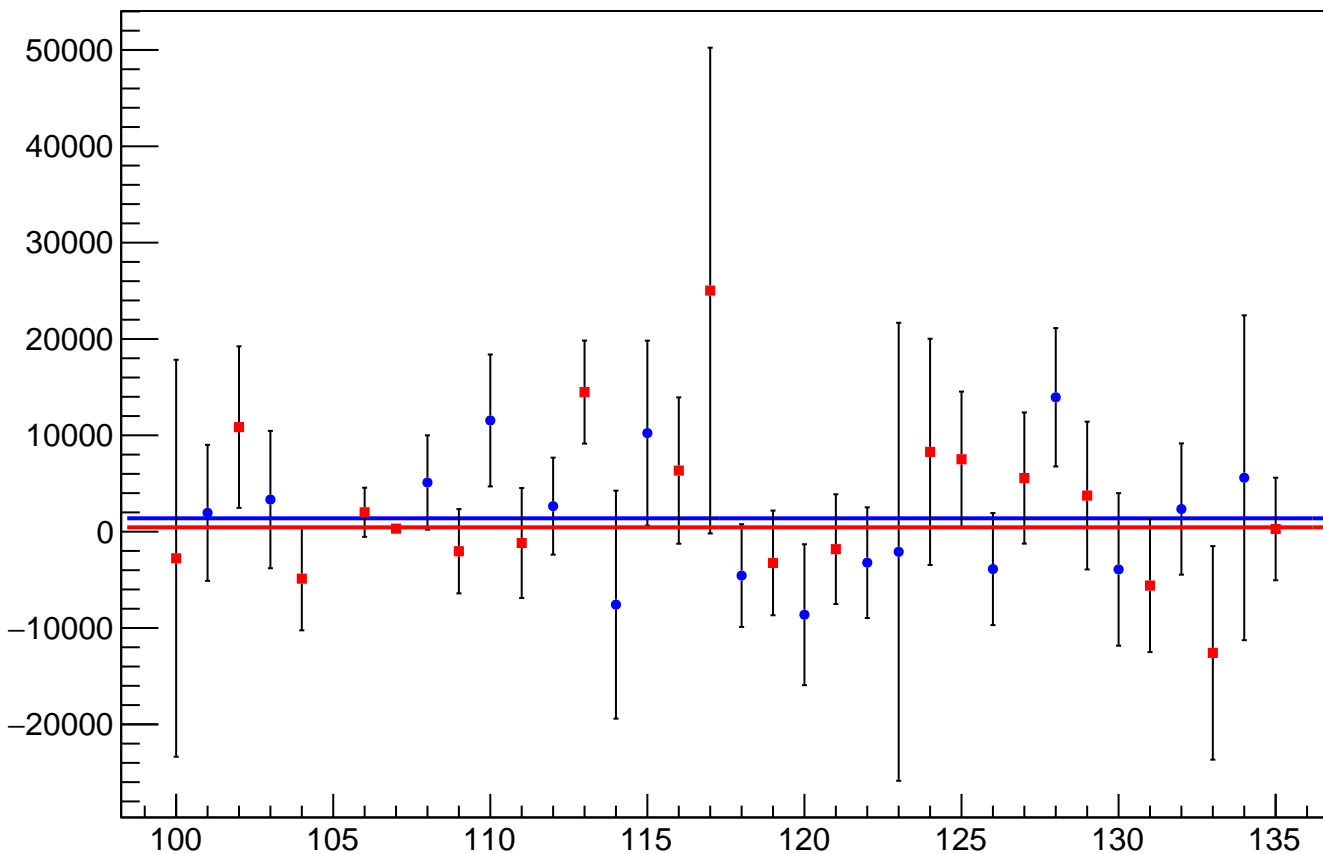
1890.968+/-0.563  $\chi^2$ /NDF: 279688.5/15

1909.053+/-0.385  $\chi^2$ /NDF: 632407.8/34

1924.909+/-0.527  $\chi^2$ /NDF: 350781.6/18



# asym\_atl1r2\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 1386.608+/-1724.637  $\chi^2$ /NDF: 12.5/15

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

Right Out: 449.913+/-454.298  $\chi^2$ /NDF: 16.8/18

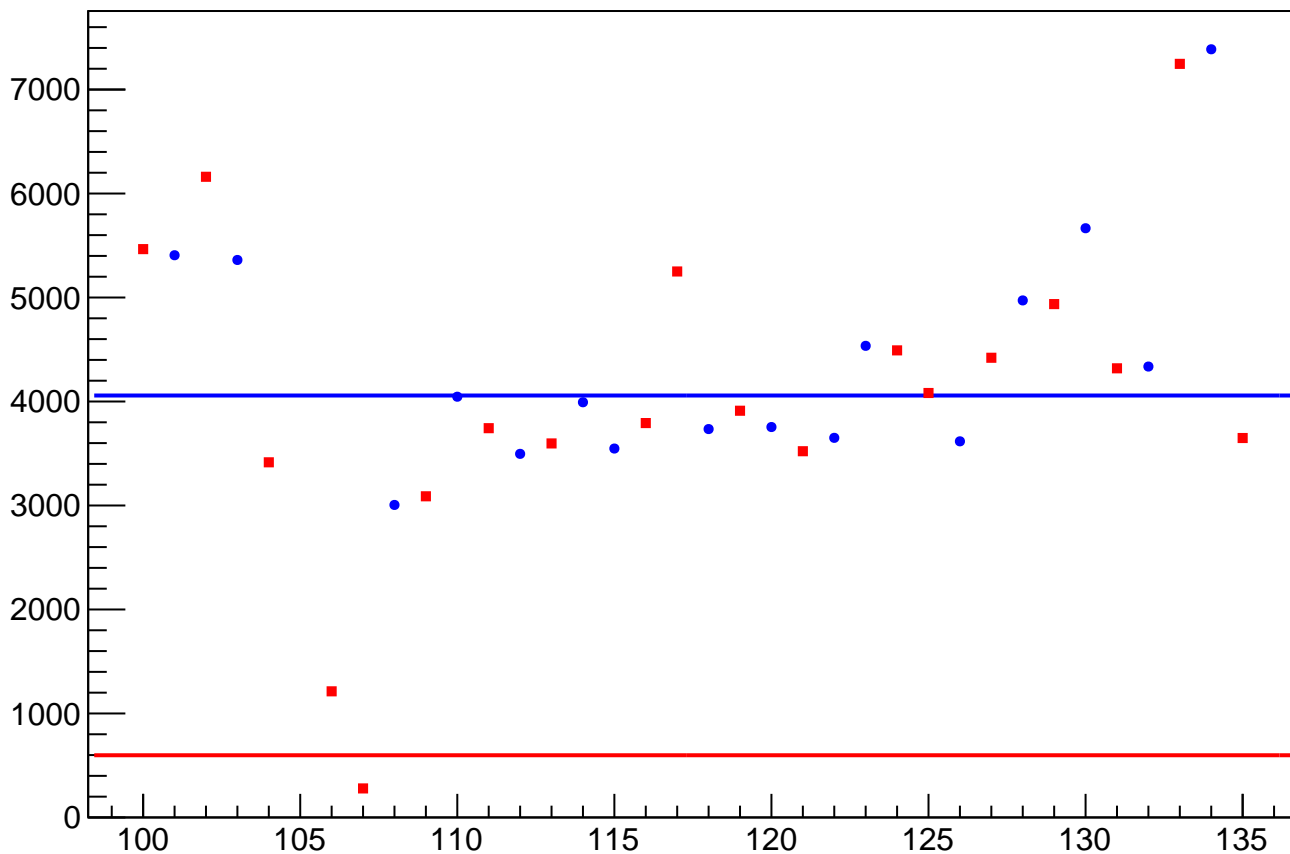
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1386.608+/-1724.637  $\chi^2$ /NDF: 12.5/15

510.691+/-439.312  $\chi^2$ /NDF: 29.6/34

449.913+/-454.298  $\chi^2$ /NDF: 16.8/18

# asym\_atl1r2\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 4057.636+/-1.220  $\chi^2$ /NDF: 492304.5/15

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

Right Out: 598.200+/-0.321  $\chi^2$ /NDF: 10052701.3/18

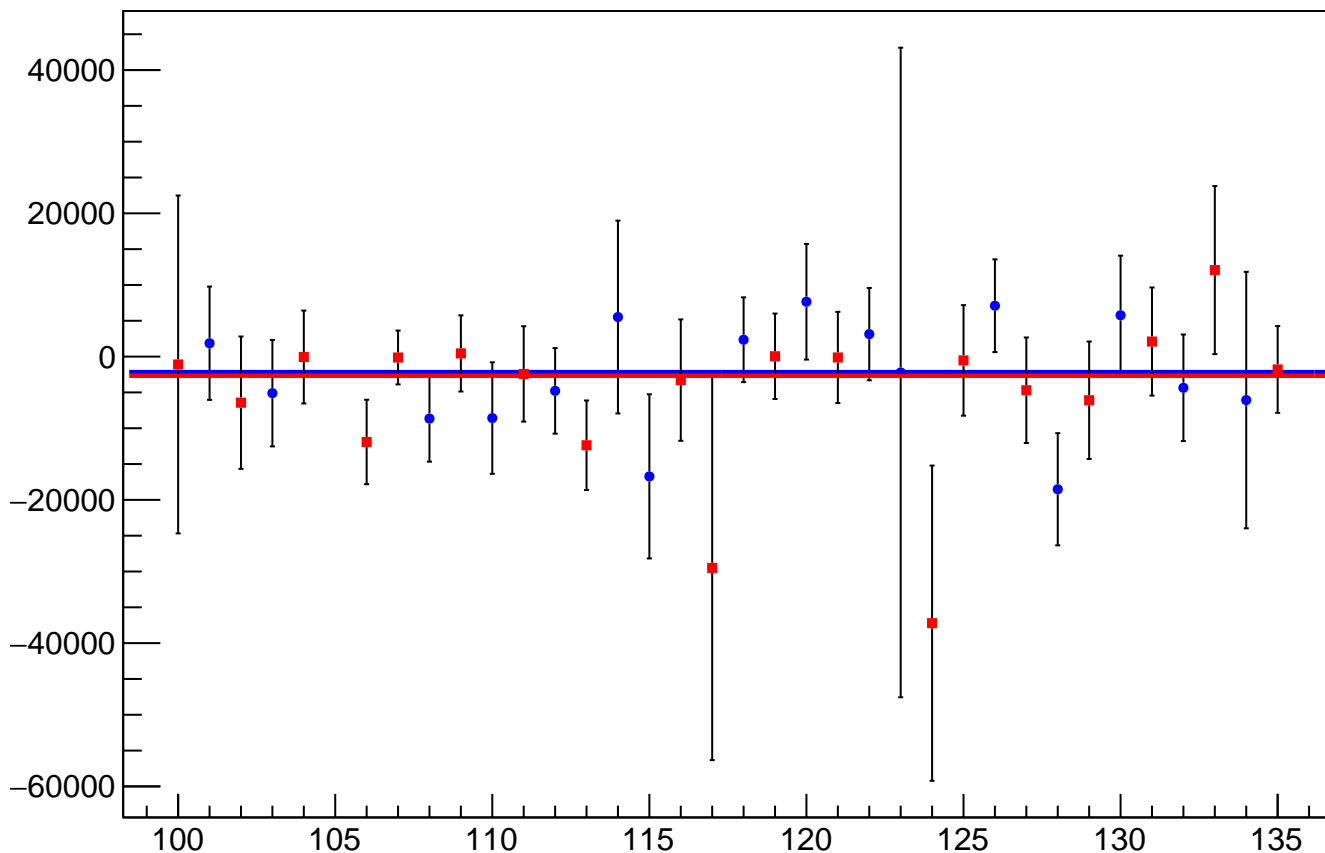
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

4057.636+/-1.220  $\chi^2$ /NDF: 492304.5/15

822.669+/-0.311  $\chi^2$ /NDF: 18070065.7/34

598.200+/-0.321  $\chi^2$ /NDF: 10052701.3/18

# asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



Right In:  $-2132.890 \pm 1947.515$   $\chi^2/\text{NDF}: 14.6/15$

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

Right Out:  $-2703.364 \pm 1595.478$   $\chi^2/\text{NDF}: 12.2/18$

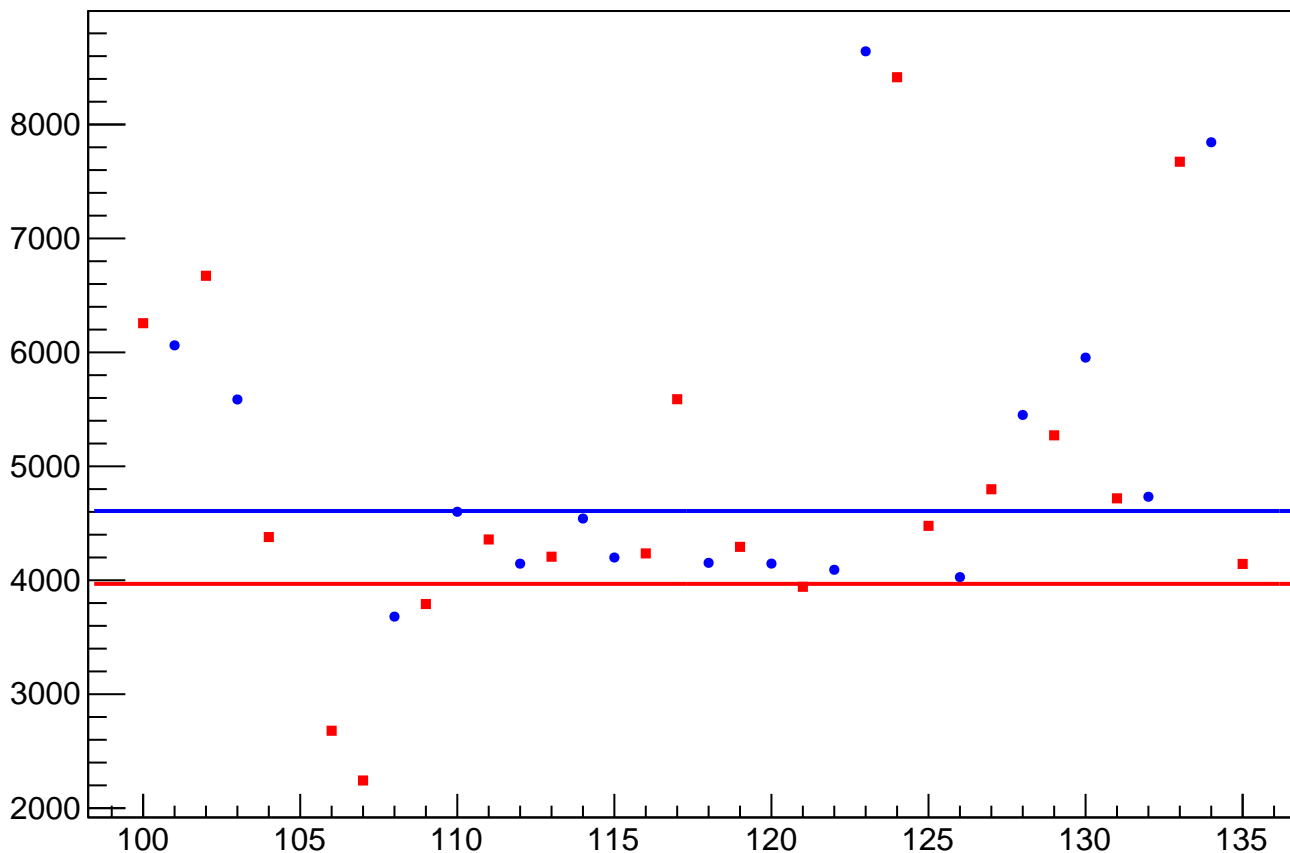
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2132.890 \pm 1947.515$   $\chi^2/\text{NDF}: 14.6/15$

$-2474.256 \pm 1234.193$   $\chi^2/\text{NDF}: 26.8/34$

$-2703.364 \pm 1595.478$   $\chi^2/\text{NDF}: 12.2/18$

# asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



Right In: 4607.969+/-1.377  $\chi^2$ /NDF: 368881.6/15

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

Right Out: 3968.461+/-1.121  $\chi^2$ /NDF: 1147613.3/18

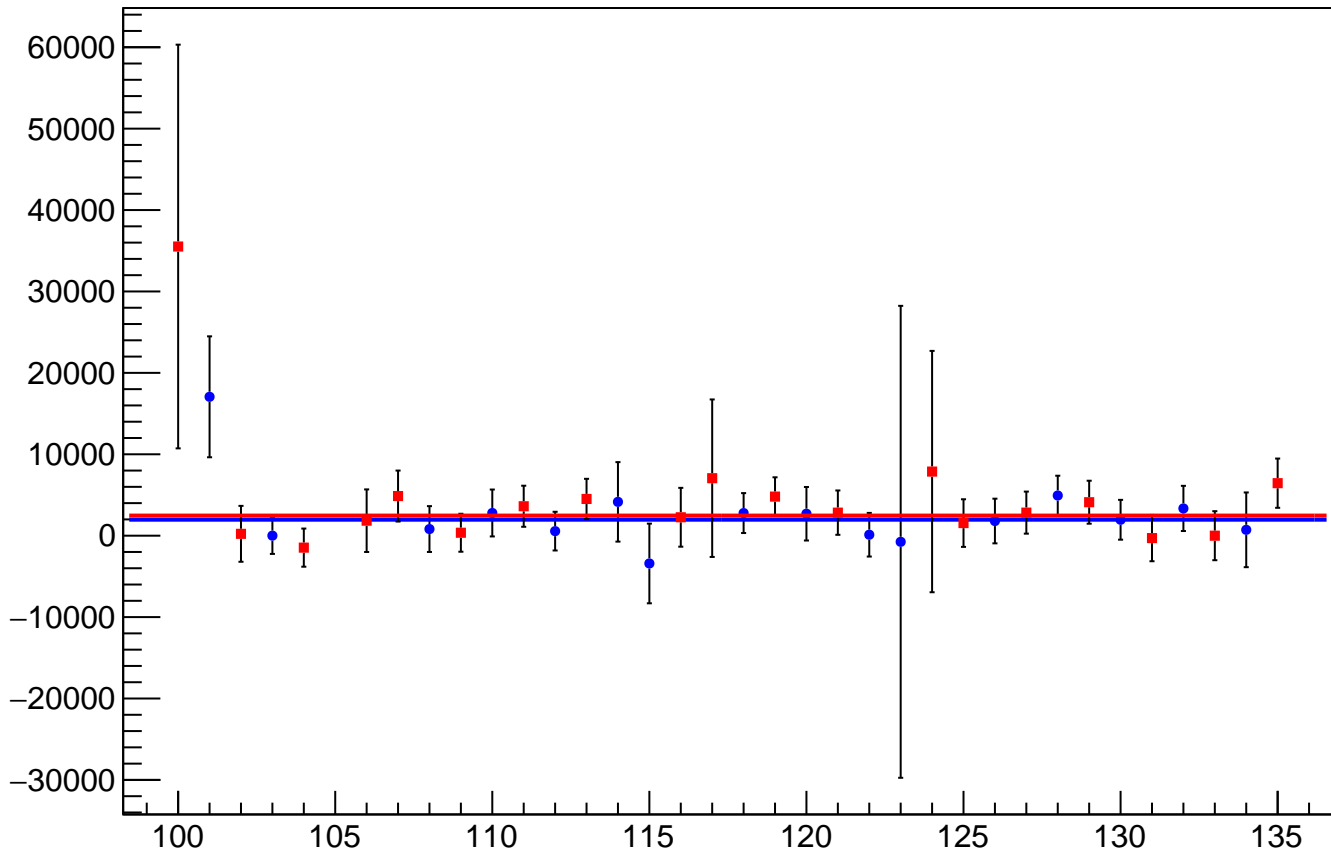
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4607.969+/-1.377  $\chi^2$ /NDF: 368881.6/15

4223.275+/-0.869  $\chi^2$ /NDF: 1646222.0/34

3968.461+/-1.121  $\chi^2$ /NDF: 1147613.3/18

# reg\_asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



Right In:  $1964.872 \pm 751.638$   $\chi^2/\text{NDF}: 9.4/15$

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

Right Out:  $2470.002 \pm 689.892$   $\chi^2/\text{NDF}: 12.5/18$

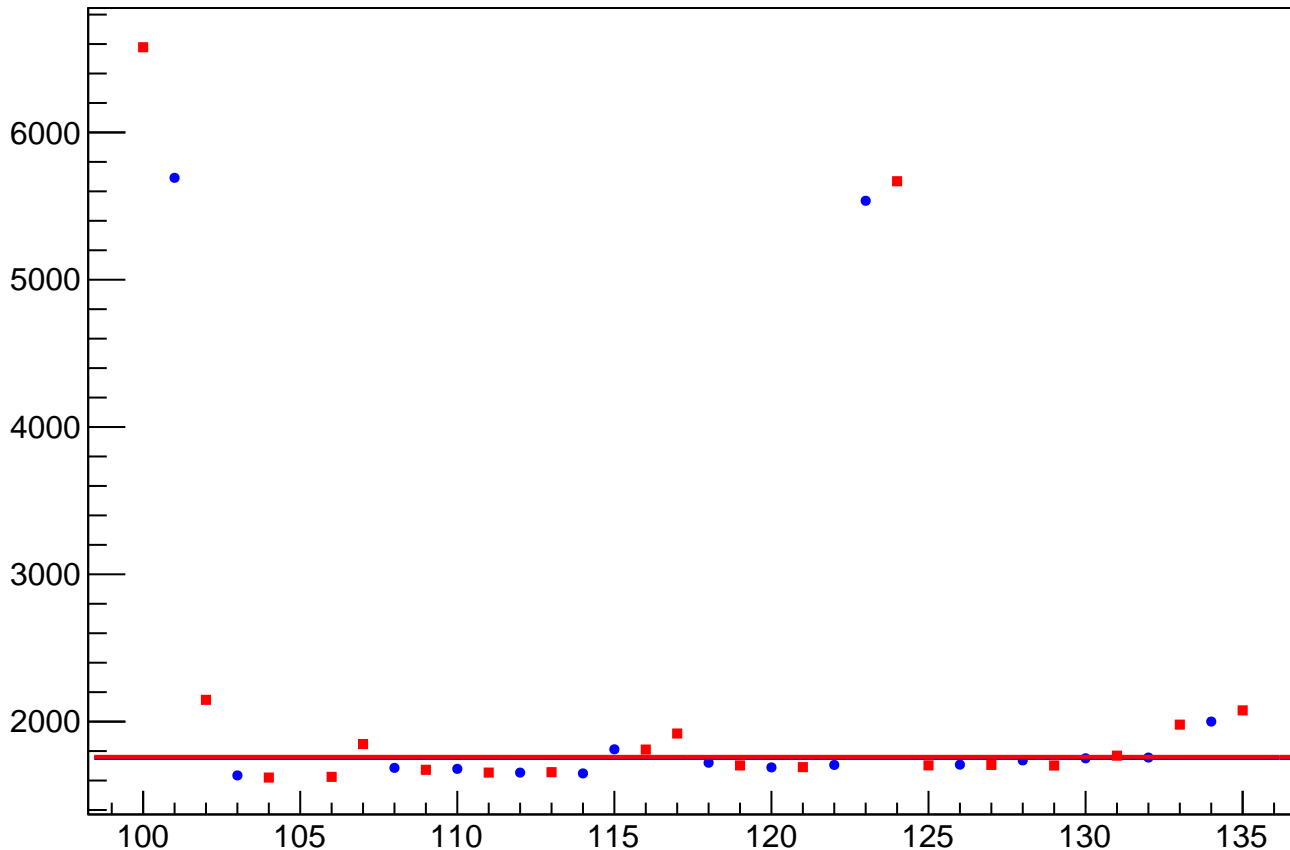
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$1964.872 \pm 751.638$   $\chi^2/\text{NDF}: 9.4/15$

$2239.034 \pm 508.257$   $\chi^2/\text{NDF}: 22.2/34$

$2470.002 \pm 689.892$   $\chi^2/\text{NDF}: 12.5/18$

# reg\_asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



Right In: 1753.475+/-0.531  $\chi^2$ /NDF: 617323.6/15

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

Right Out: 1760.993+/-0.484  $\chi^2$ /NDF: 300651.2/18

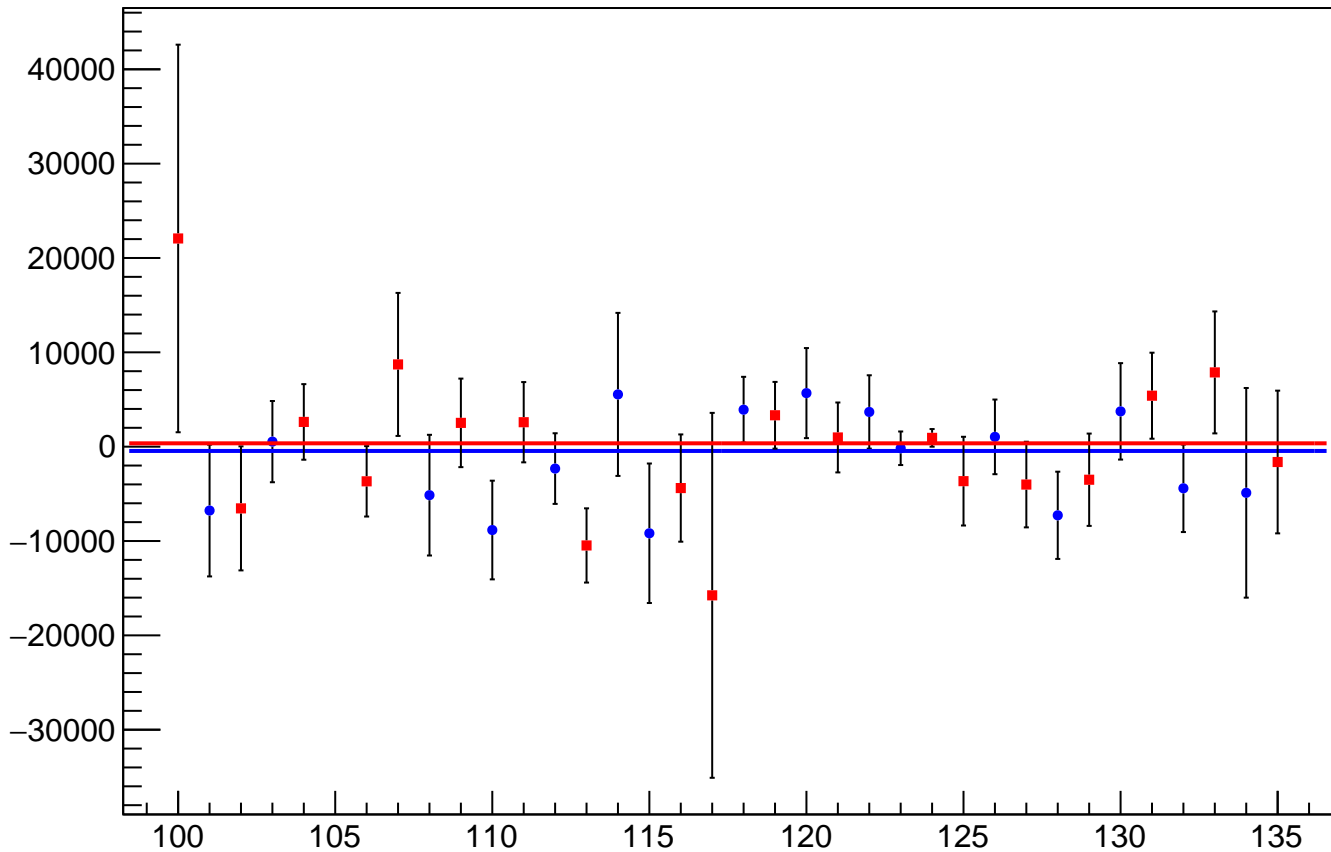
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1753.475+/-0.531  $\chi^2$ /NDF: 617323.6/15

1757.581+/-0.358  $\chi^2$ /NDF: 918084.1/34

1760.993+/-0.484  $\chi^2$ /NDF: 300651.2/18

# asym\_atr1l2\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -453.083+/-1025.677  $\chi^2$ /NDF: 14.4/15

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

Right Out: 355.757+/-725.980  $\chi^2$ /NDF: 20.4/18

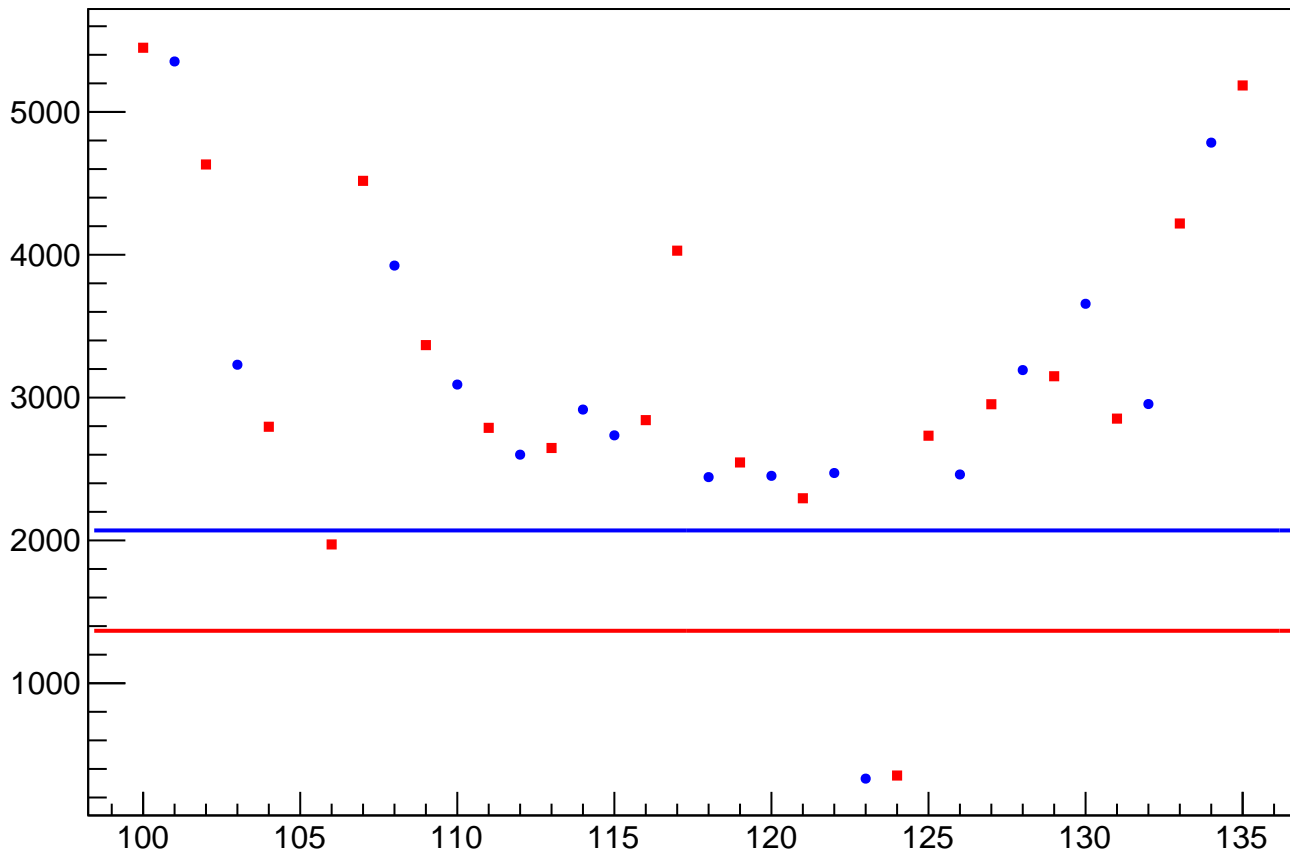
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-453.083+/-1025.677  $\chi^2$ /NDF: 14.4/15

85.789+/-592.565  $\chi^2$ /NDF: 35.2/34

355.757+/-725.980  $\chi^2$ /NDF: 20.4/18

# asym\_atr1l2\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 2069.876+/-0.725  $\chi^2$ /NDF: 3396369.5/15

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

Right Out: 1367.287+/-0.513  $\chi^2$ /NDF: 6681458.5/18

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

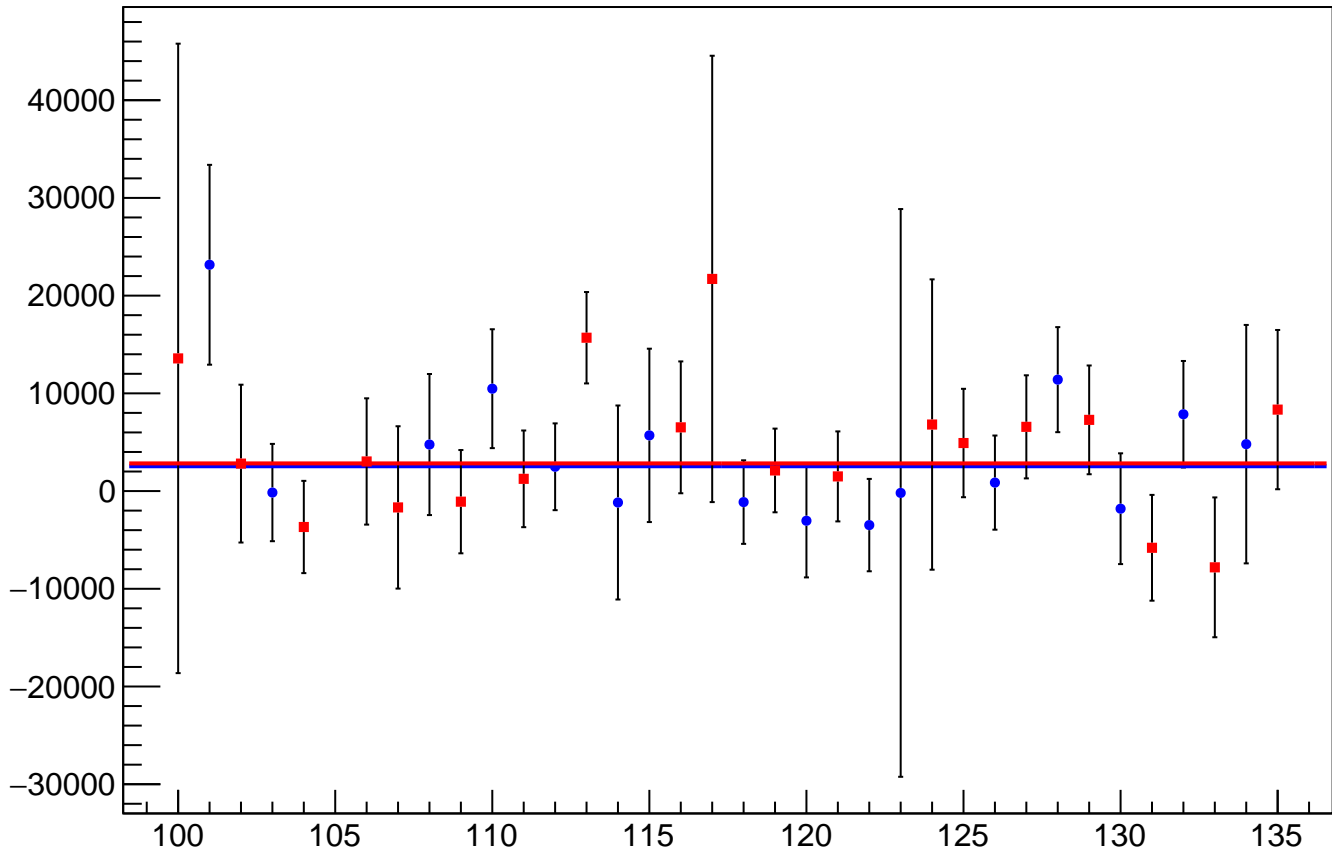
2069.876+/-0.725  $\chi^2$ /NDF: 3396369.5/15

1601.792+/-0.419  $\chi^2$ /NDF: 10703049.4/3

1367.287+/-0.513  $\chi^2$ /NDF: 6681458.5/18



# asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



Right In: 2539.287+/-1491.832  $\chi^2$ /NDF: 14.1/15

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

Right Out: 2831.604+/-1384.704  $\chi^2$ /NDF: 18.2/18

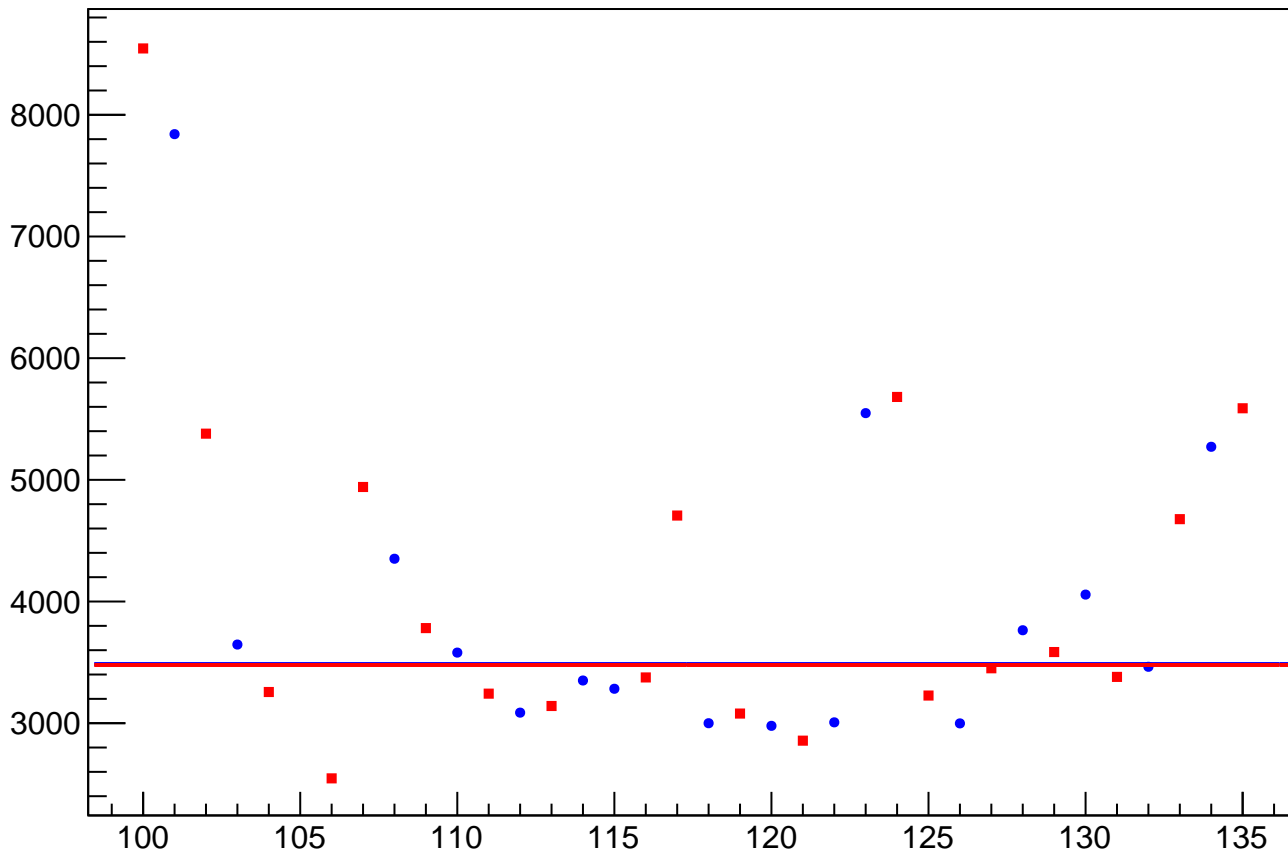
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2539.287+/-1491.832  $\chi^2$ /NDF: 14.1/15

2696.317+/-1014.895  $\chi^2$ /NDF: 32.3/34

2831.604+/-1384.704  $\chi^2$ /NDF: 18.2/18

# asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



Right In: 3485.996+/-1.055  $\chi^2$ /NDF: 572561.2/15

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

Right Out: 3478.443+/-0.965  $\chi^2$ /NDF: 615641.1/18

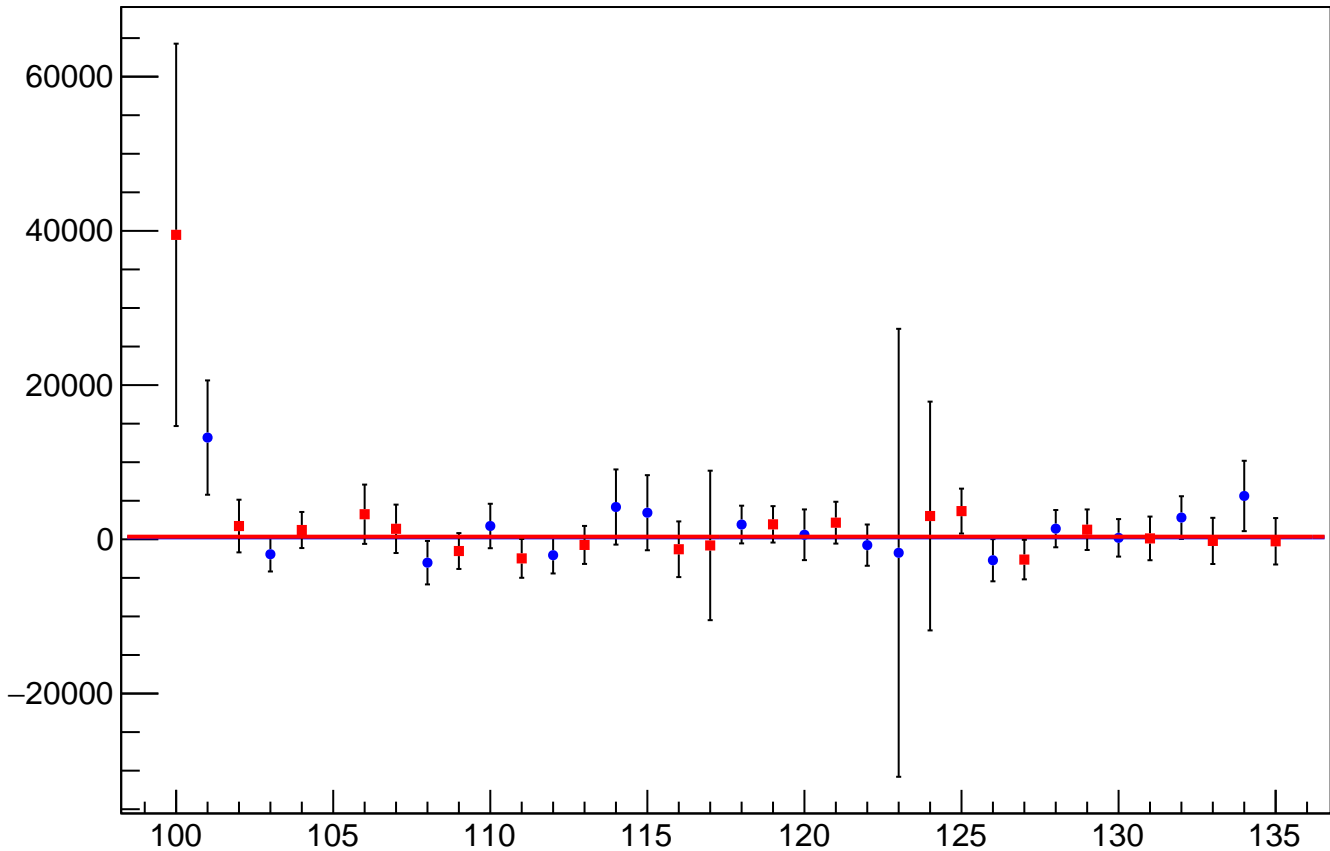
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3485.996+/-1.055  $\chi^2$ /NDF: 572561.2/15

3481.886+/-0.712  $\chi^2$ /NDF: 1188230.2/34

3478.443+/-0.965  $\chi^2$ /NDF: 615641.1/18

# reg\_asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



Right In: 253.250+/-749.656  $\chi^2$ /NDF: 11.9/15

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

Right Out: 343.206+/-687.557  $\chi^2$ /NDF: 9.5/18

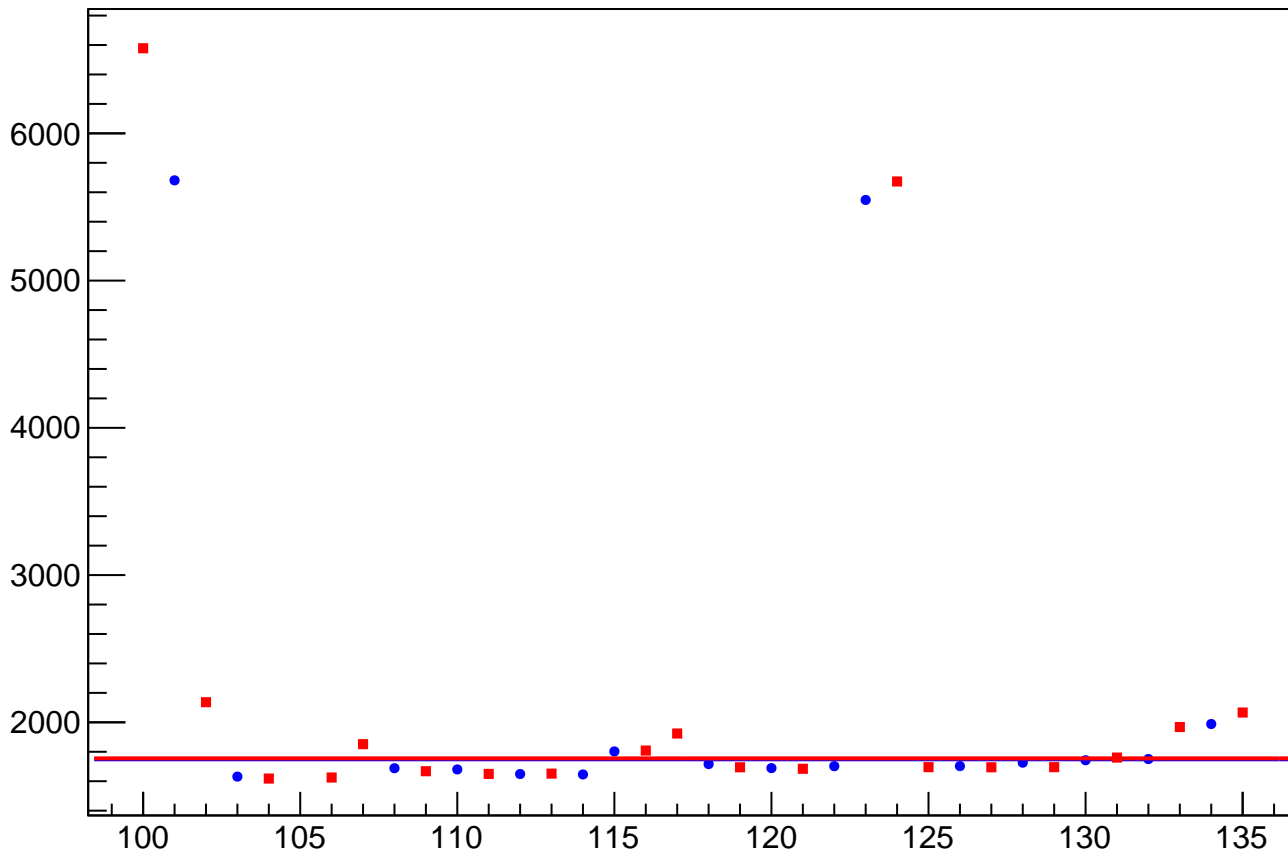
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

253.250+/-749.656  $\chi^2$ /NDF: 11.9/15

302.107+/-506.710  $\chi^2$ /NDF: 21.5/34

343.206+/-687.557  $\chi^2$ /NDF: 9.5/18

# reg\_asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



Right In: 1748.837+/-0.530  $\chi^2$ /NDF: 616924.3/15

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

Right Out: 1755.149+/-0.483  $\chi^2$ /NDF: 300265.1/18

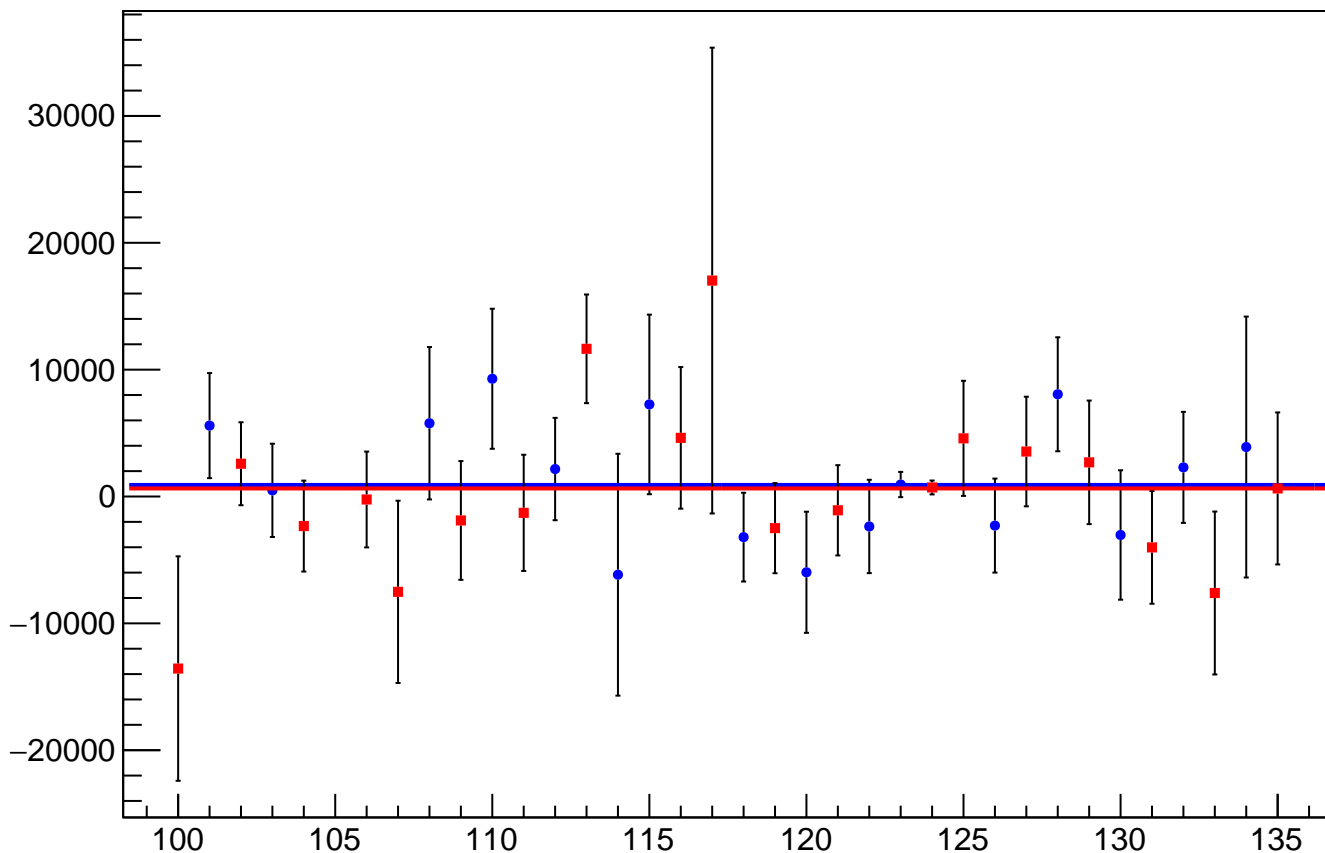
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1748.837+/-0.530  $\chi^2$ /NDF: 616924.3/15

1752.287+/-0.357  $\chi^2$ /NDF: 917266.9/34

1755.149+/-0.483  $\chi^2$ /NDF: 300265.1/18

# asym\_atr1l2\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 911.347+/-763.284  $\chi^2$ /NDF: 14.0/15

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

Right Out: 633.159+/-488.540  $\chi^2$ /NDF: 18.5/18

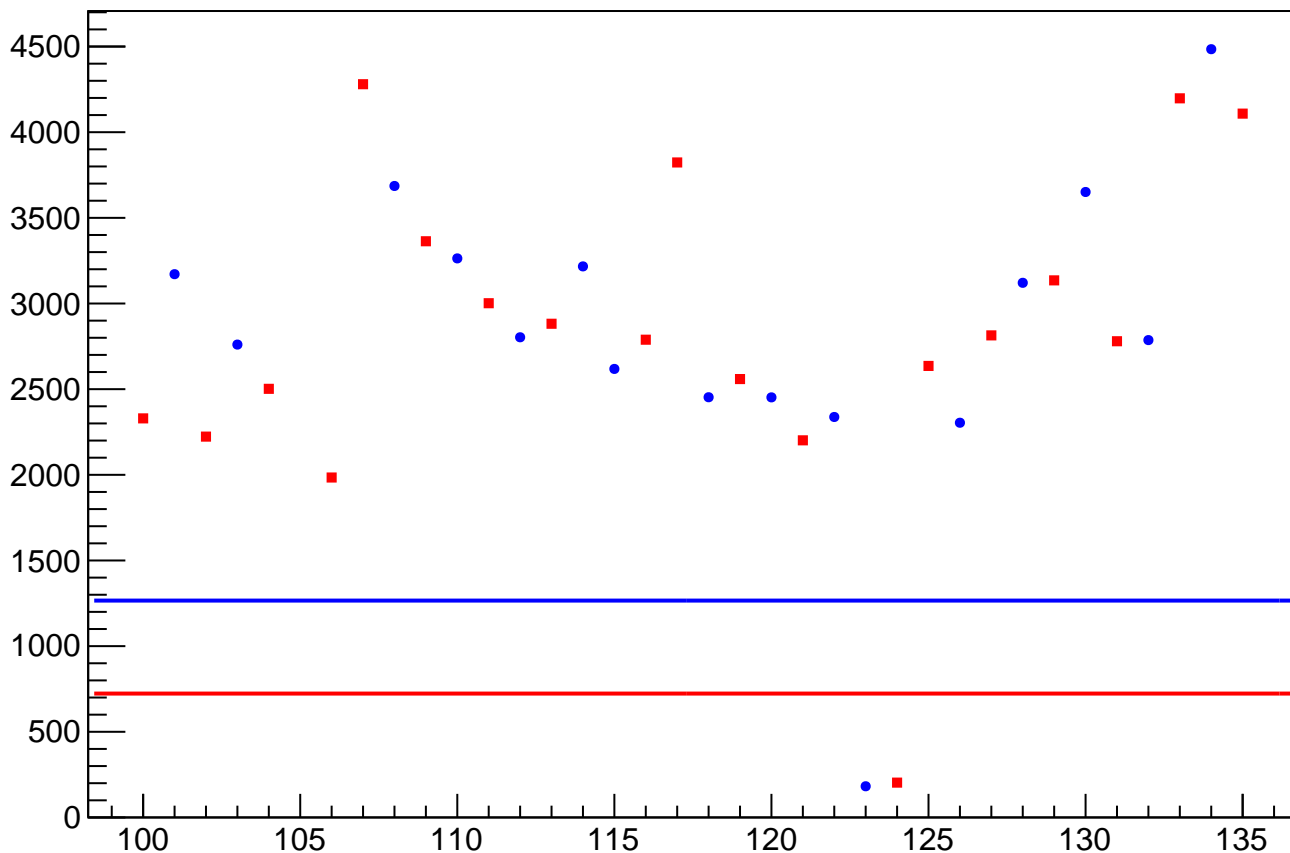
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

911.347+/-763.284  $\chi^2$ /NDF: 14.0/15

714.004+/-411.474  $\chi^2$ /NDF: 32.6/34

633.159+/-488.540  $\chi^2$ /NDF: 18.5/18

# asym\_atr1l2\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1265.940+/-0.540  $\chi^2$ /NDF: 6054304.6/15

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

Right Out: 723.133+/-0.345  $\chi^2$ /NDF: 9306146.2/18

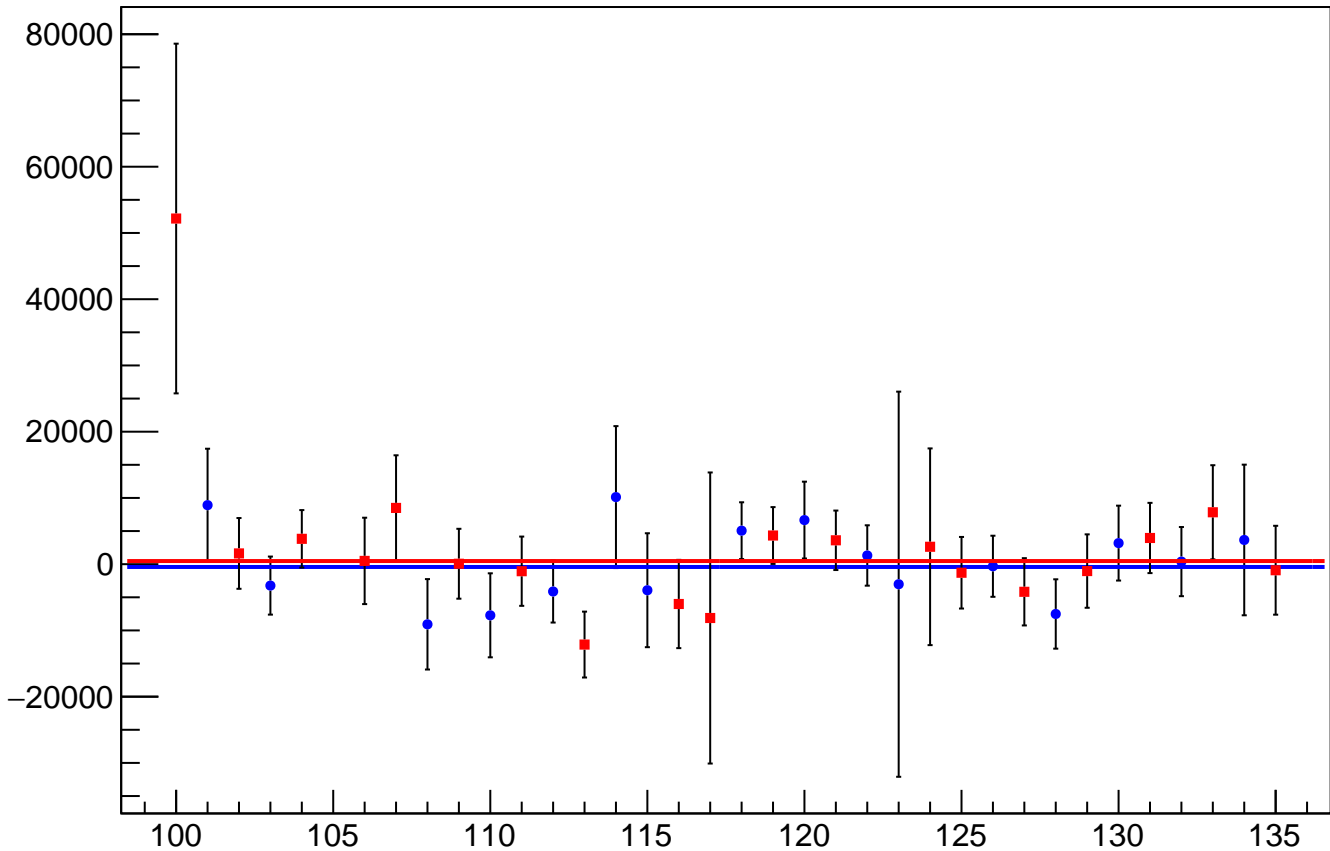
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1265.940+/-0.540  $\chi^2$ /NDF: 6054304.6/15

880.879+/-0.291  $\chi^2$ /NDF: 16077967.6/34

723.133+/-0.345  $\chi^2$ /NDF: 9306146.2/18

# asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



Right In:  $-421.379 \pm 1454.422$   $\chi^2/\text{NDF}: 12.0/15$

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

Right Out:  $472.948 \pm 1338.357$   $\chi^2/\text{NDF}: 17.0/18$

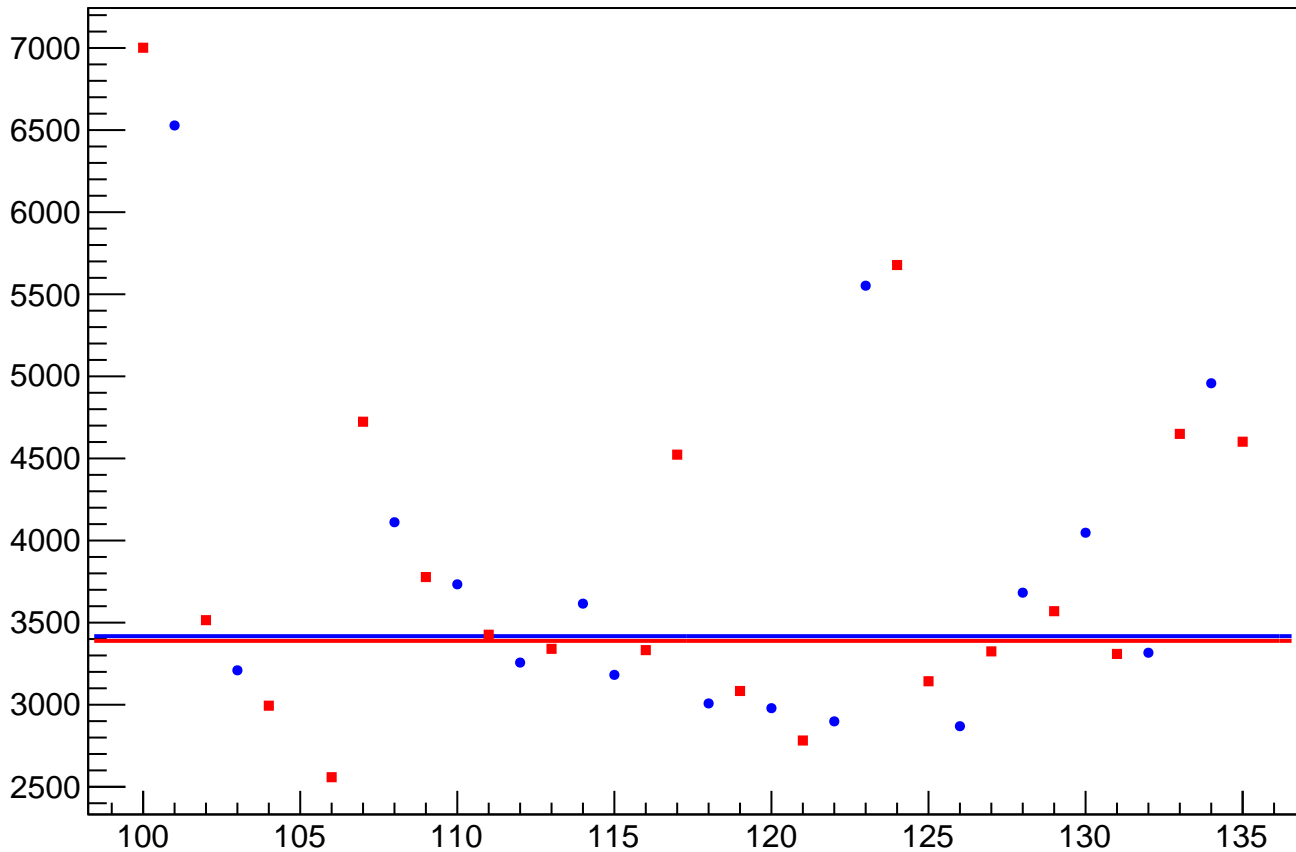
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-421.379 \pm 1454.422$   $\chi^2/\text{NDF}: 12.0/15$

$62.888 \pm 984.841$   $\chi^2/\text{NDF}: 29.2/34$

$472.948 \pm 1338.357$   $\chi^2/\text{NDF}: 17.0/18$

# asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



Right In: 3417.607 $\pm$ 1.028  $\chi^2$ /NDF: 463629.4/15

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

Right Out: 3389.012 $\pm$ 0.934  $\chi^2$ /NDF: 410877.1/18

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

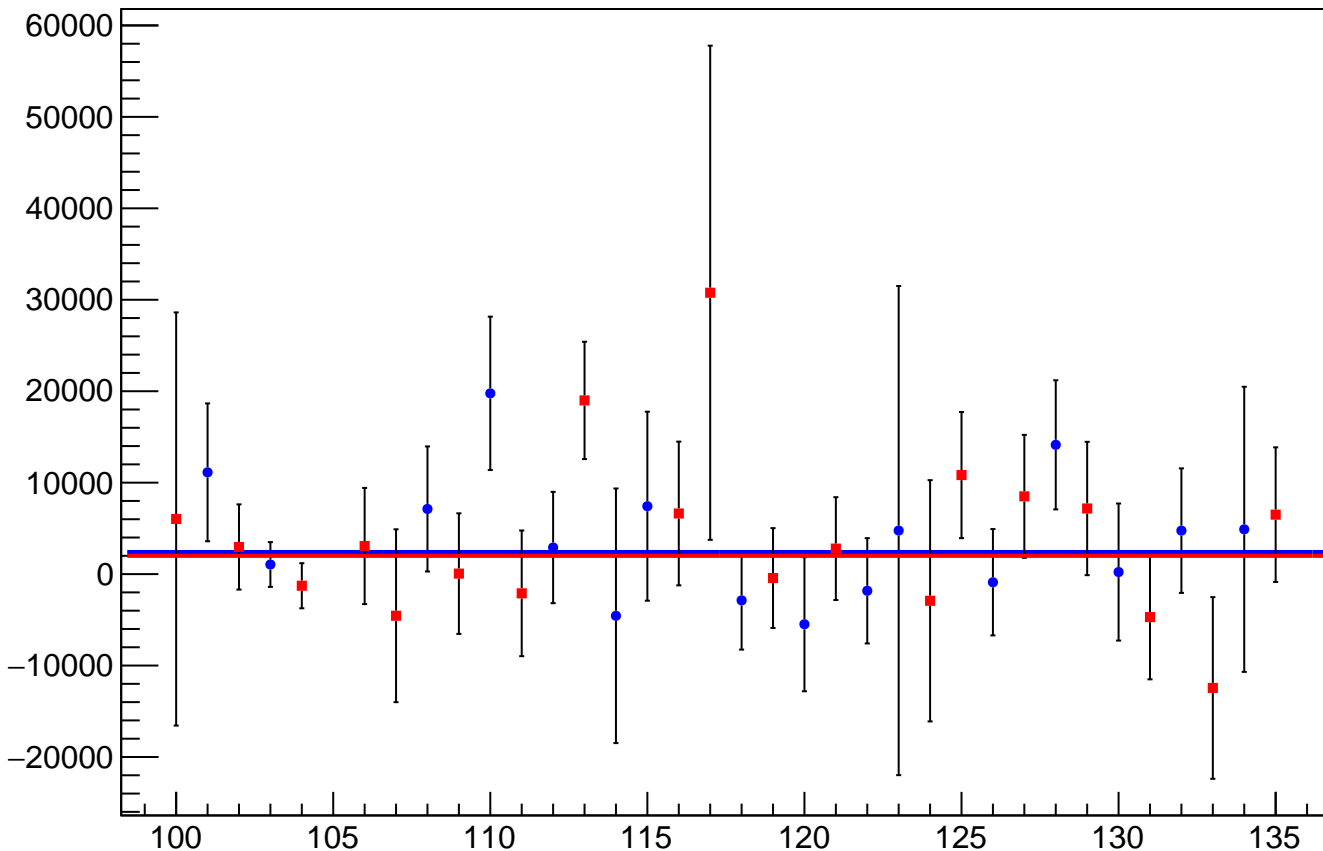
3417.607 $\pm$ 1.028  $\chi^2$ /NDF: 463629.4/15

3401.936 $\pm$ 0.691  $\chi^2$ /NDF: 874930.2/34

3389.012 $\pm$ 0.934  $\chi^2$ /NDF: 410877.1/18



# reg\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 2421.126+/-1508.819  $\chi^2$ /NDF: 12.9/15

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

Right Out: 1993.883+/-1389.911  $\chi^2$ /NDF: 18.2/18

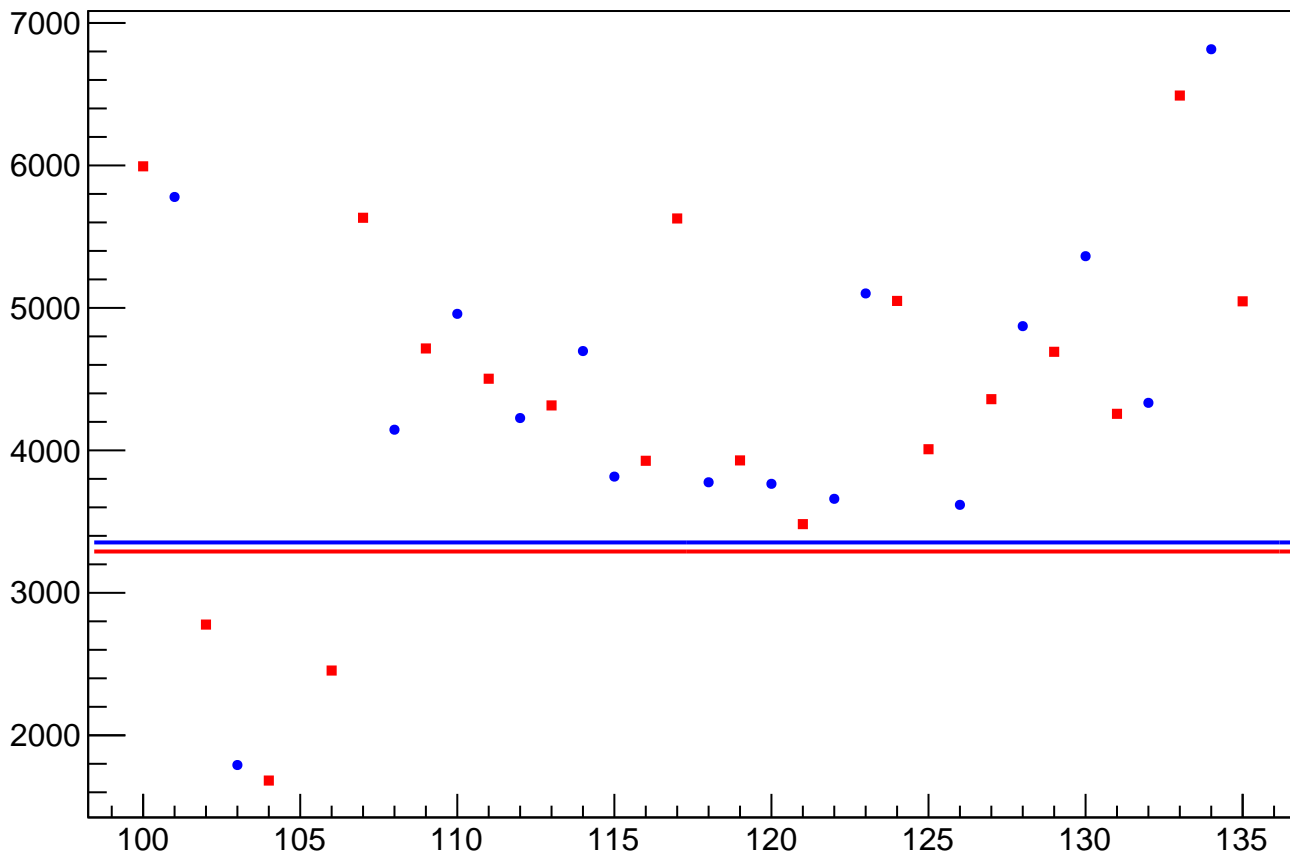
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2421.126+/-1508.819  $\chi^2$ /NDF: 12.9/15

2190.008+/-1022.271  $\chi^2$ /NDF: 31.1/34

1993.883+/-1389.911  $\chi^2$ /NDF: 18.2/18

# reg\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3353.769+/-1.067  $\chi^2$ /NDF: 1598271.2/15

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

Right Out: 3290.116+/-0.974  $\chi^2$ /NDF: 1882675.4/18

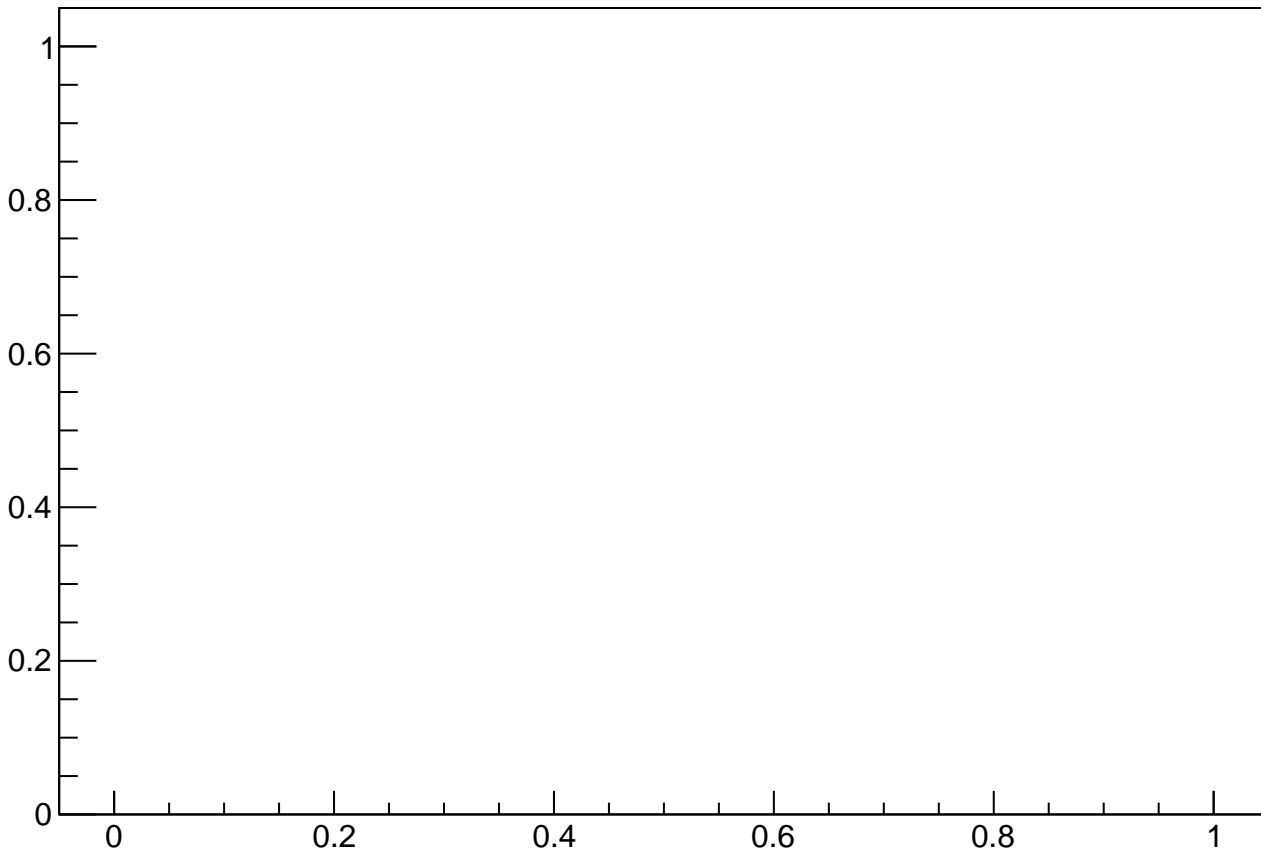
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3353.769+/-1.067  $\chi^2$ /NDF: 1598271.2/15

3319.043+/-0.719  $\chi^2$ /NDF: 3482888.5/34

3290.116+/-0.974  $\chi^2$ /NDF: 1882675.4/18

asym\_atl\_avg\_atr\_avg\_avg\_correction\_mean vs Slug, Sign Corrected



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

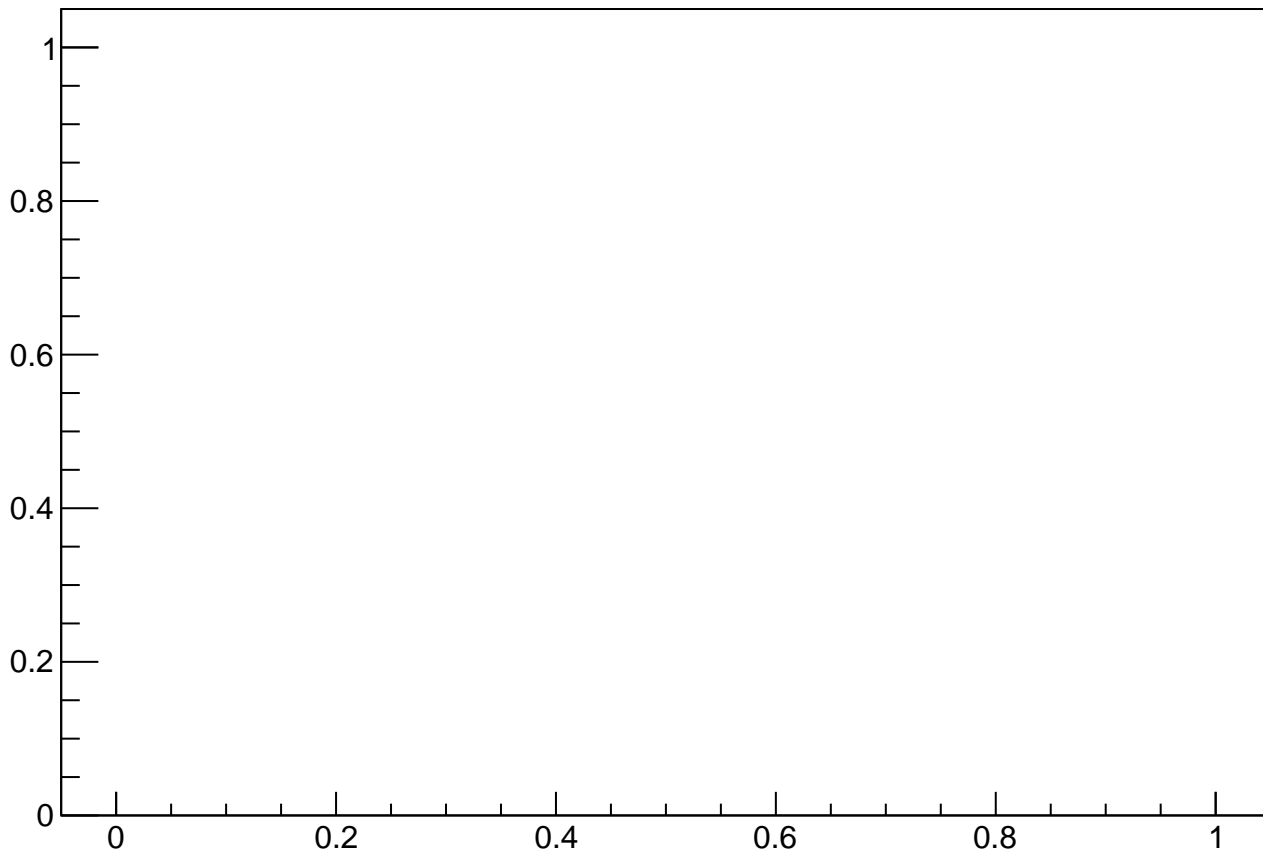
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

asym\_atl\_avg\_atr\_avg\_avg\_correction\_rms vs Slug, Sign Corrected



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

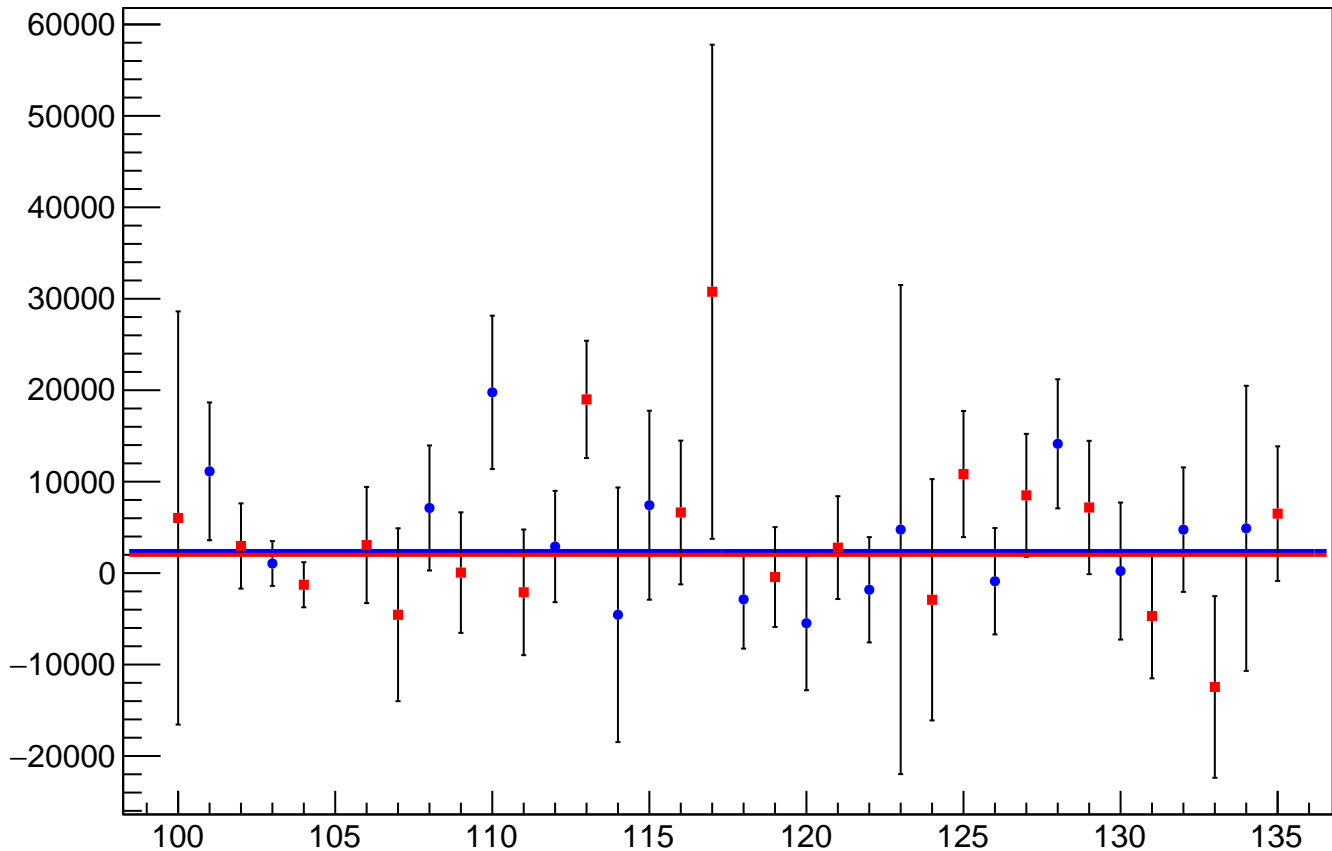
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 2421.126+/-1508.819  $\chi^2$ /NDF: 12.9/15

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

Right Out: 1993.883+/-1389.911  $\chi^2$ /NDF: 18.2/18

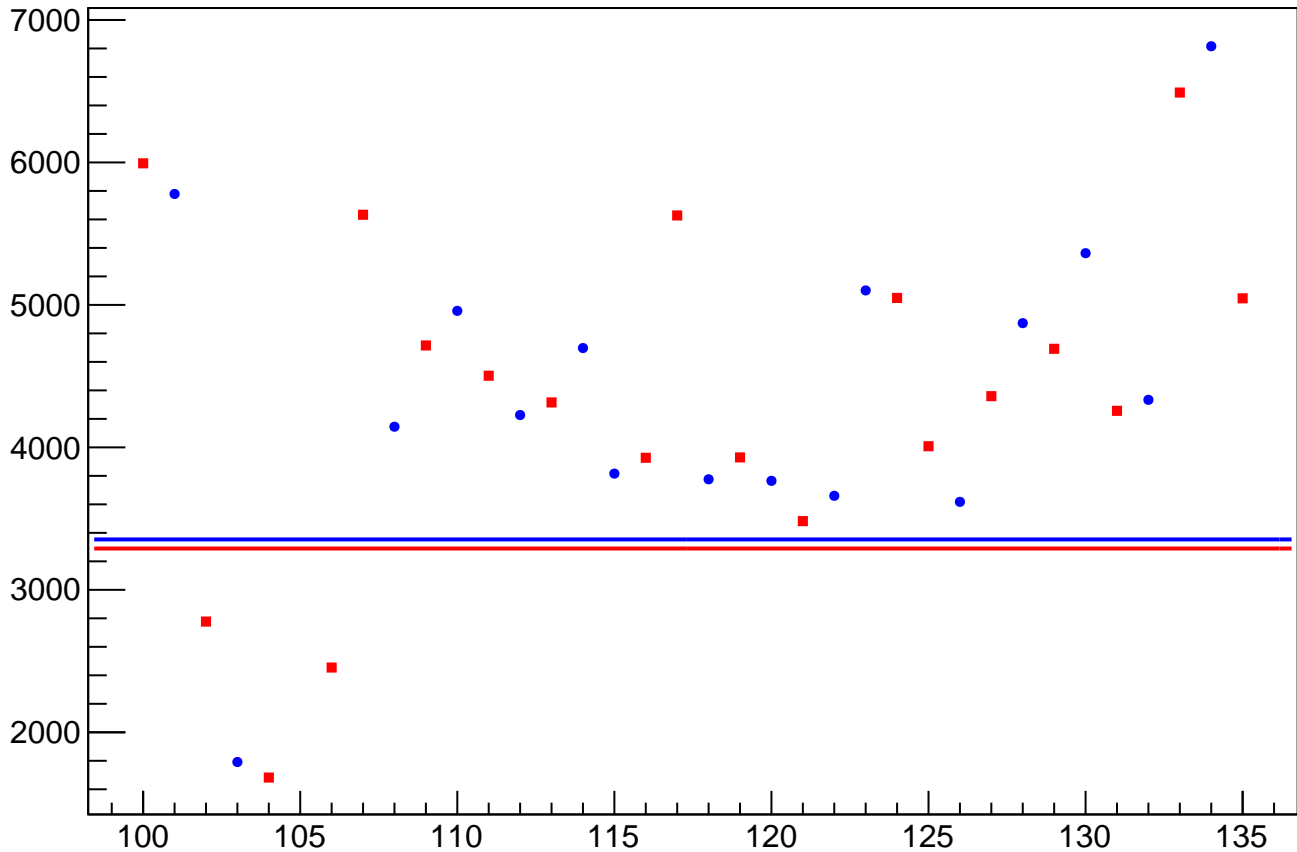
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2421.126+/-1508.819  $\chi^2$ /NDF: 12.9/15

2190.008+/-1022.271  $\chi^2$ /NDF: 31.1/34

1993.883+/-1389.911  $\chi^2$ /NDF: 18.2/18

# asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3353.769+/-1.067  $\chi^2/\text{NDF}$ : 1598271.2/15

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

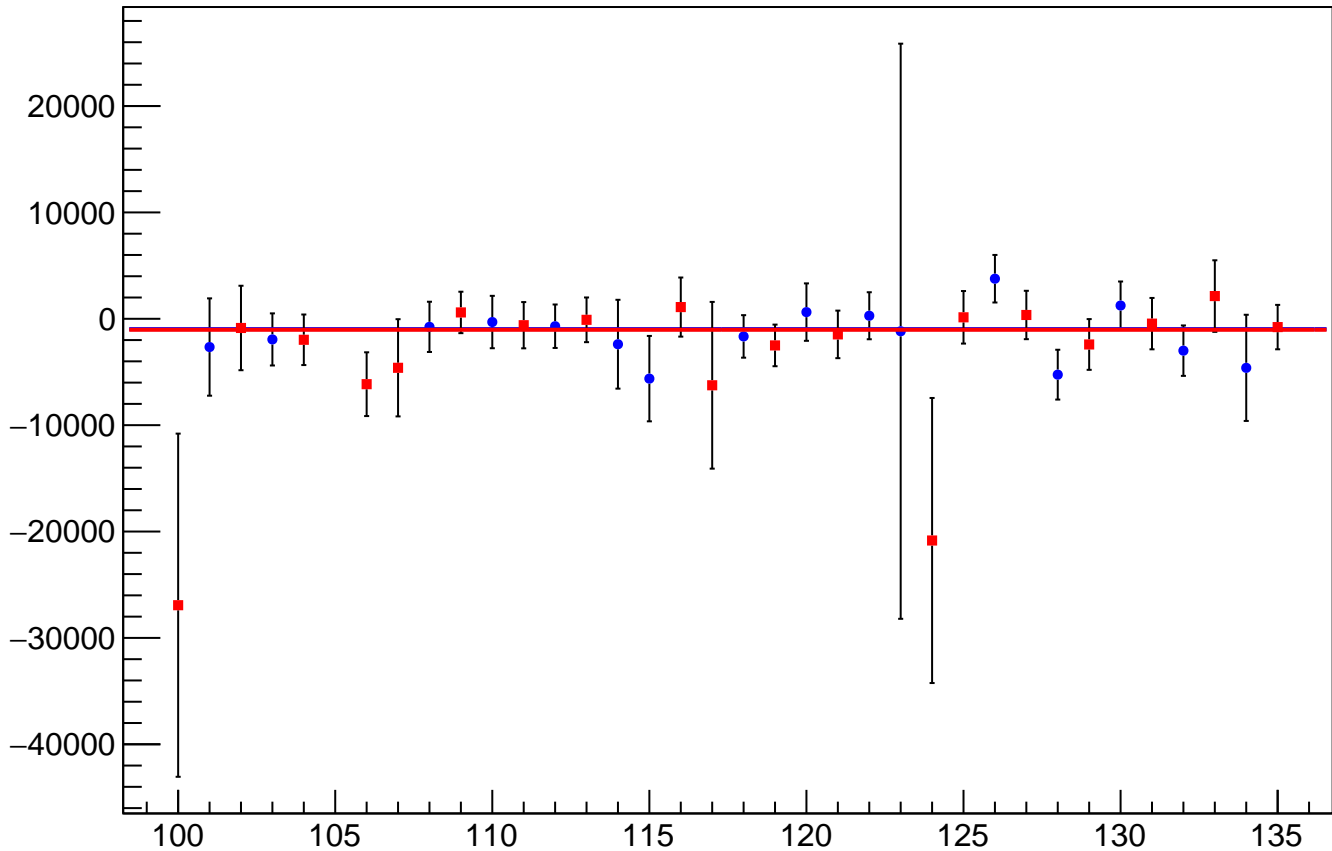
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3353.769+/-1.067  $\chi^2/\text{NDF}$ : 1598271.2/15

3319.043+/-0.719  $\chi^2/\text{NDF}$ : 3482888.5/34

3290.116+/-0.974  $\chi^2/\text{NDF}$ : 1882675.4/18

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -970.291+/-658.221  $\chi^2$ /NDF: 12.7/15

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

Right Out: -1031.900+/-604.061  $\chi^2$ /NDF: 12.9/18

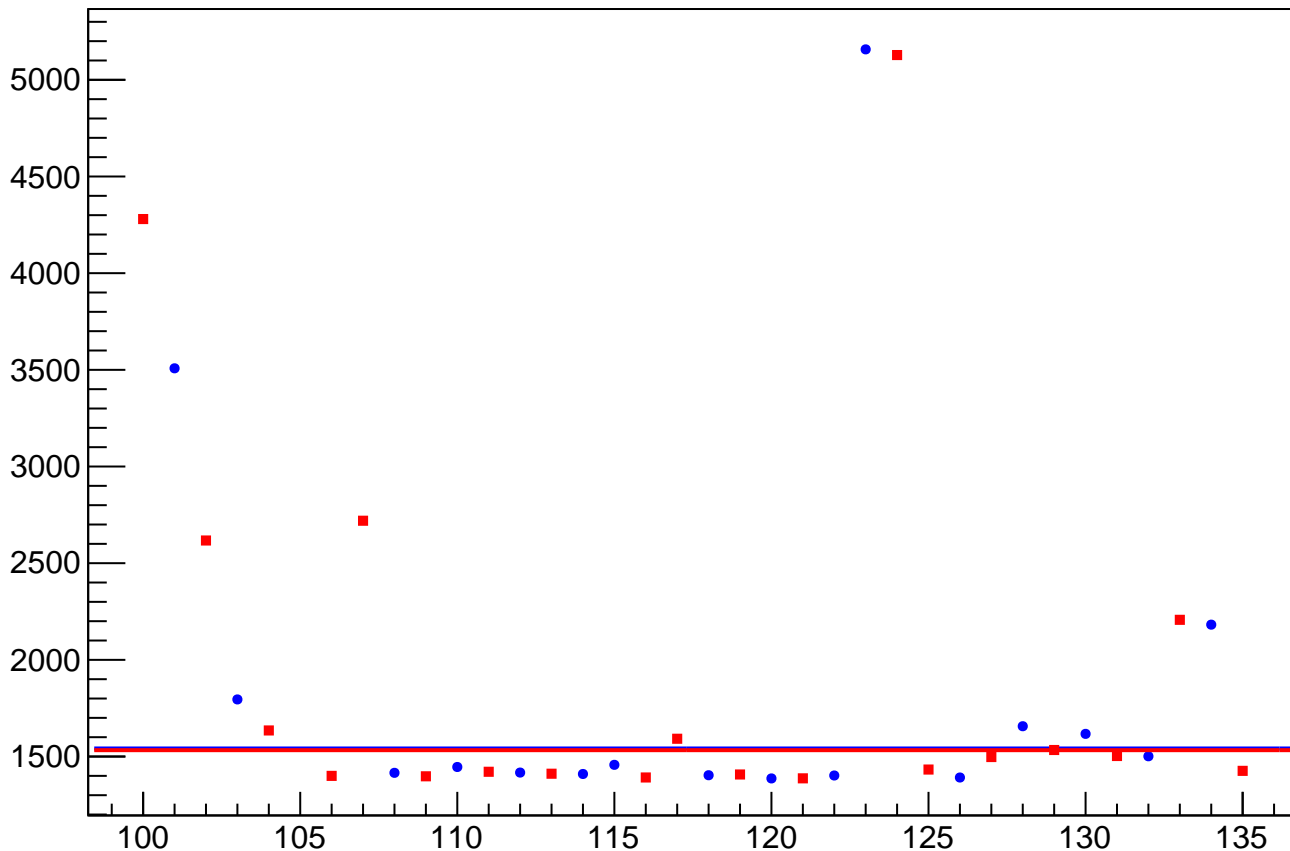
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-970.291+/-658.221  $\chi^2$ /NDF: 12.7/15

-1003.734+/-445.053  $\chi^2$ /NDF: 25.6/34

-1031.900+/-604.061  $\chi^2$ /NDF: 12.9/18

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 1541.626+/-0.465  $\chi^2$ /NDF: 519511.6/15

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

Right Out: 1532.885+/-0.427  $\chi^2$ /NDF: 627091.9/18

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

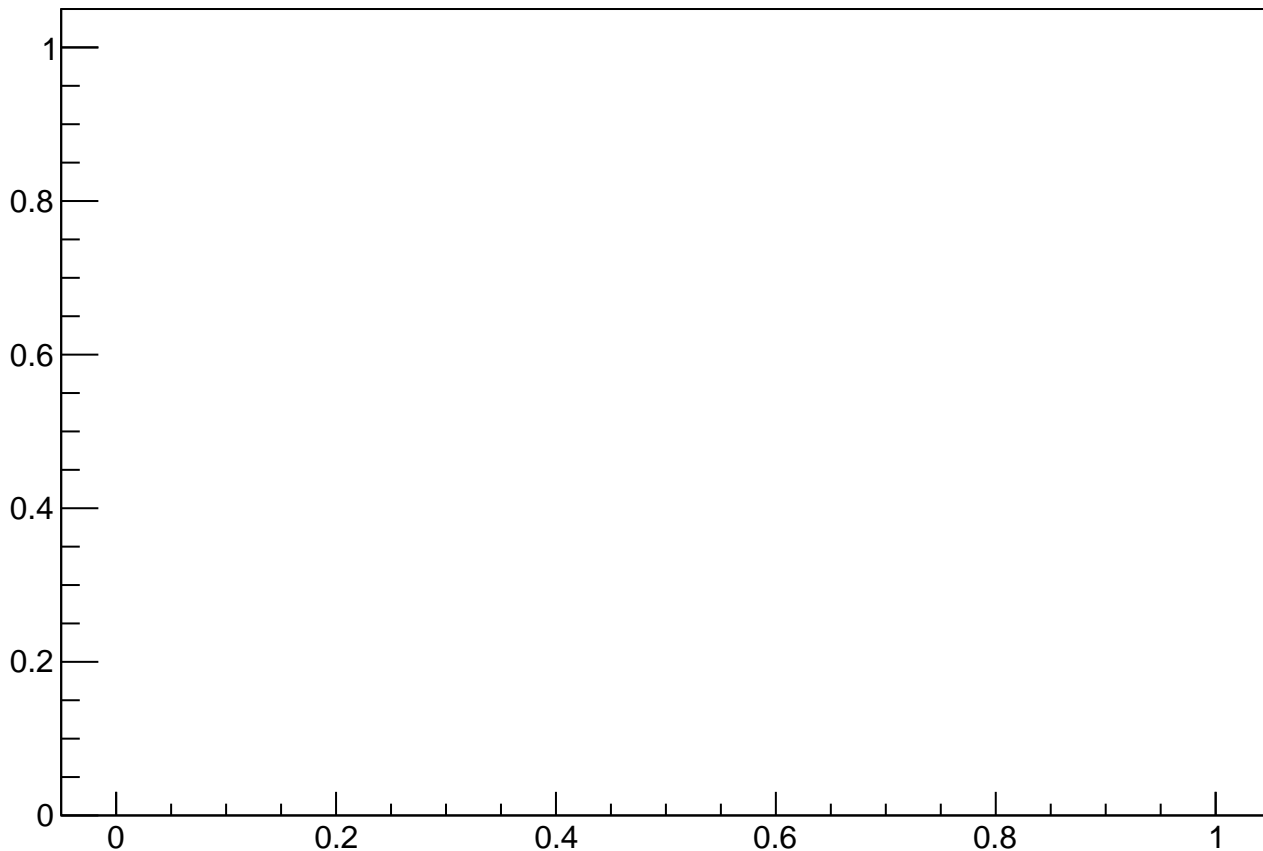
1541.626+/-0.465  $\chi^2$ /NDF: 519511.6/15

1536.882+/-0.315  $\chi^2$ /NDF: 1146794.9/34

1532.885+/-0.427  $\chi^2$ /NDF: 627091.9/18



asym\_atl\_avg\_atr\_avg\_dd\_correction\_mean vs Slug, Sign Corrected



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

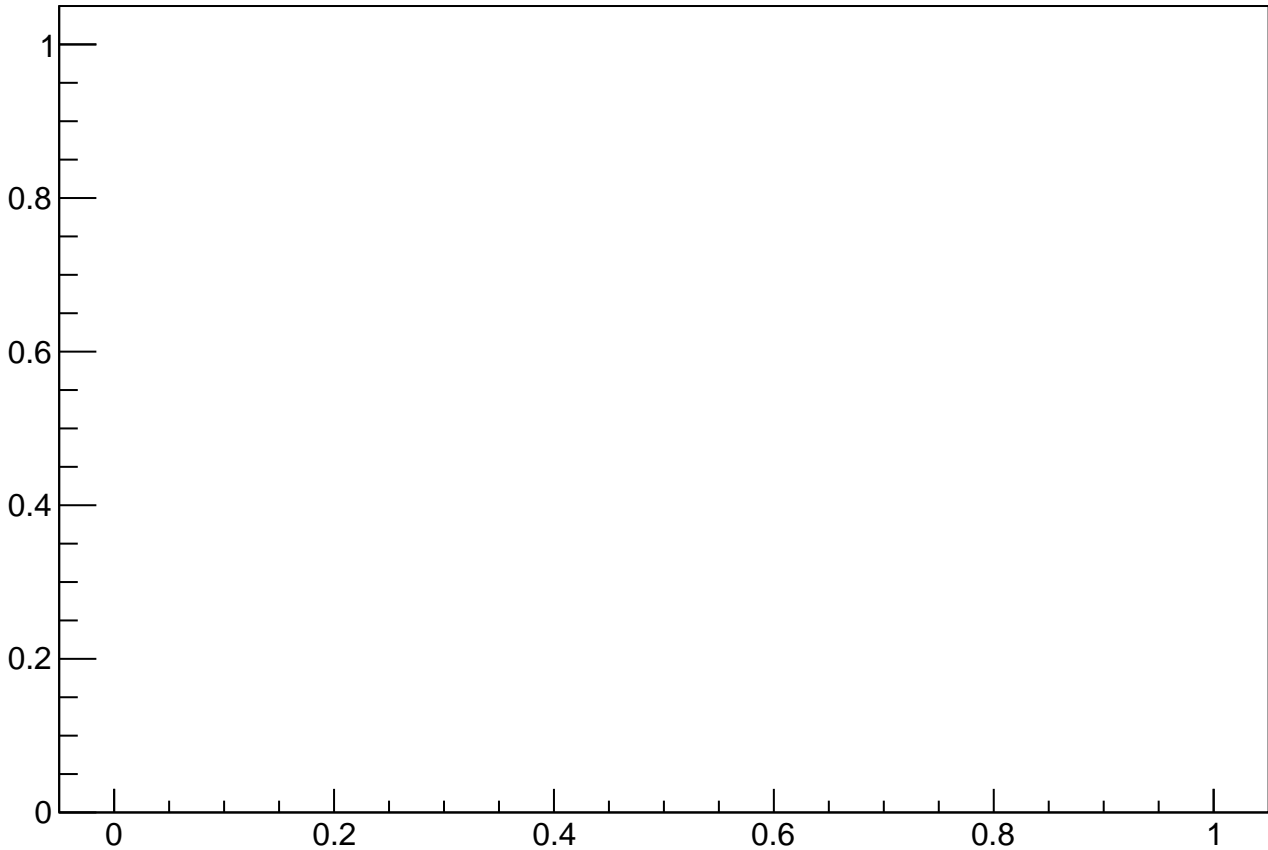
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

asym\_atl\_avg\_atr\_avg\_dd\_correction\_rms vs Slug, Sign Corrected



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

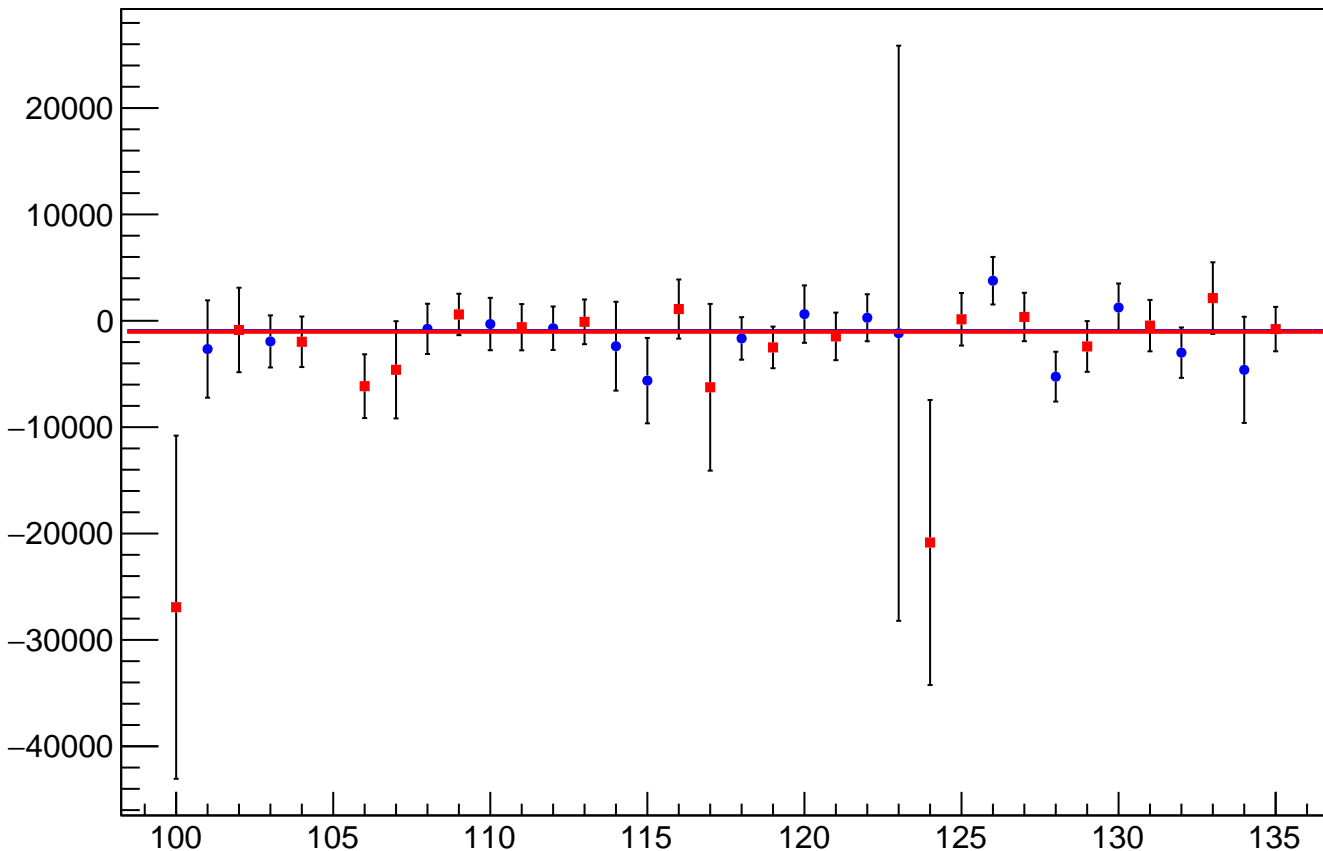
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In:  $-970.291 \pm 658.221$   $\chi^2/\text{NDF}: 12.7/15$

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

Right Out:  $-1031.900 \pm 604.061$   $\chi^2/\text{NDF}: 12.9/18$

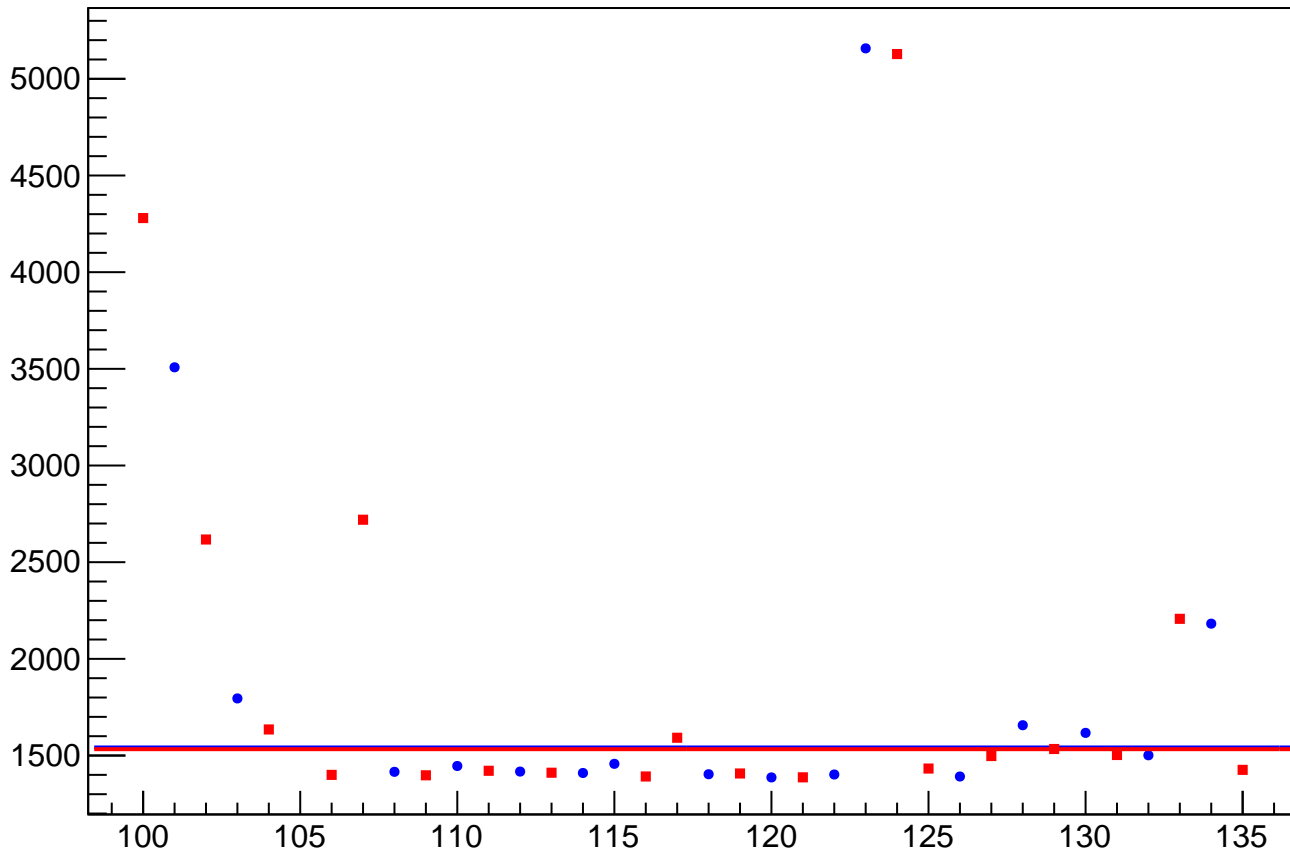
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-970.291 \pm 658.221$   $\chi^2/\text{NDF}: 12.7/15$

$-1003.734 \pm 445.053$   $\chi^2/\text{NDF}: 25.6/34$

$-1031.900 \pm 604.061$   $\chi^2/\text{NDF}: 12.9/18$

# asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 1541.626+/-0.465  $\chi^2$ /NDF: 519511.6/15

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

Right Out: 1532.885+/-0.427  $\chi^2$ /NDF: 627091.9/18

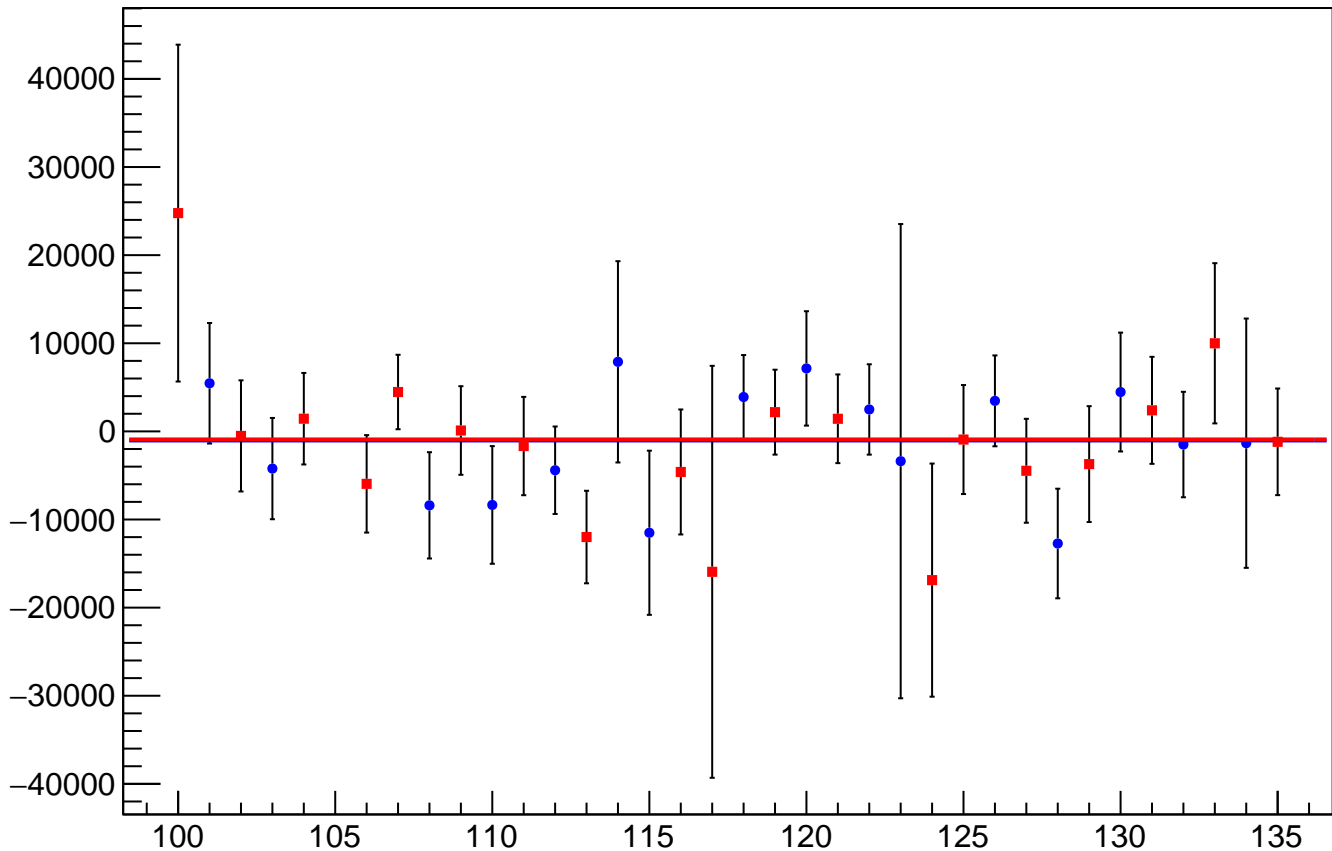
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1541.626+/-0.465  $\chi^2$ /NDF: 519511.6/15

1536.882+/-0.315  $\chi^2$ /NDF: 1146794.9/34

1532.885+/-0.427  $\chi^2$ /NDF: 627091.9/18

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -1026.995+/-1607.404  $\chi^2$ /NDF: 14.3/15

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

Right Out: -915.907+/-1391.773  $\chi^2$ /NDF: 14.0/18

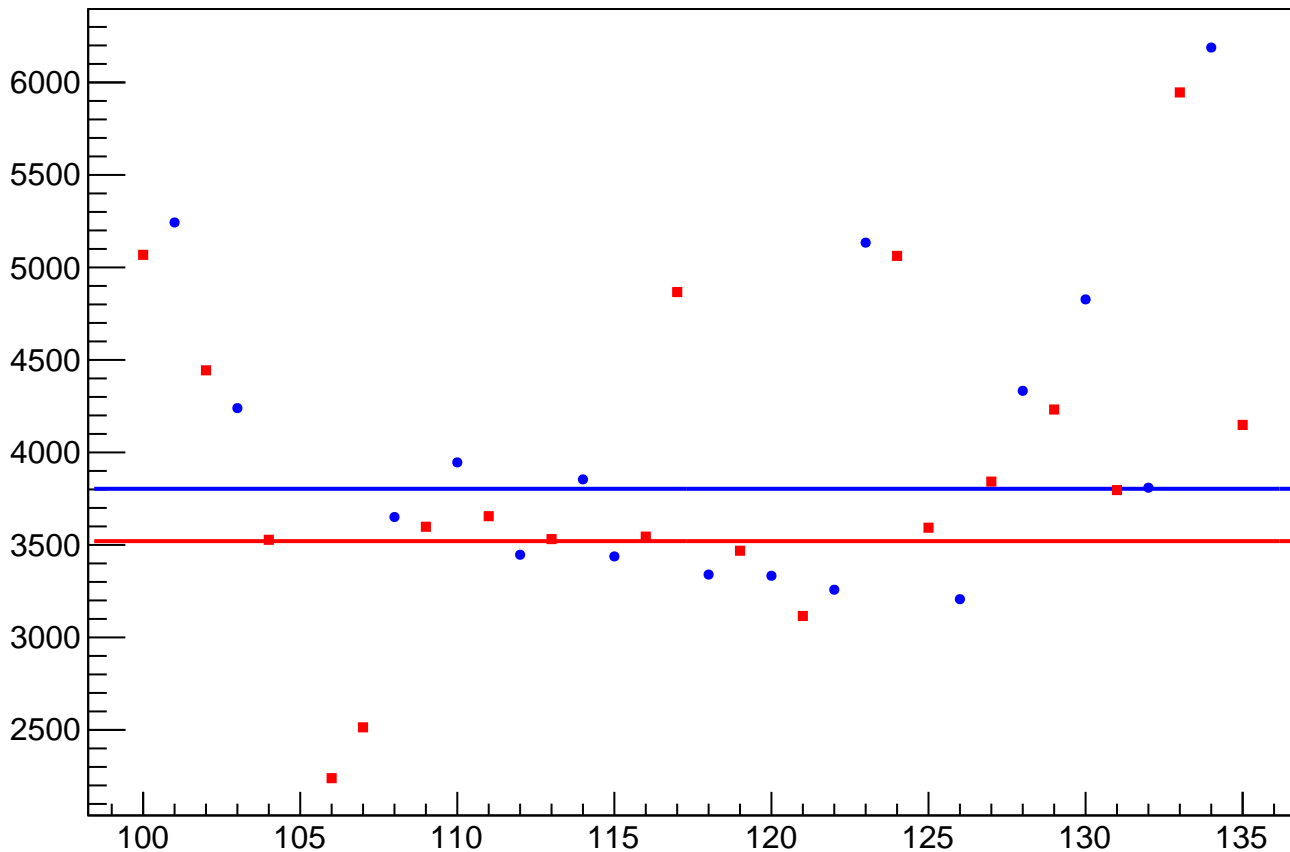
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-1026.995+/-1607.404  $\chi^2$ /NDF: 14.3/15

-963.505+/-1052.172  $\chi^2$ /NDF: 28.4/34

-915.907+/-1391.773  $\chi^2$ /NDF: 14.0/18

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3803.473+/-1.137  $\chi^2$ /NDF: 317028.8/15

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

Right Out: 3520.545+/-0.975  $\chi^2$ /NDF: 555032.6/18

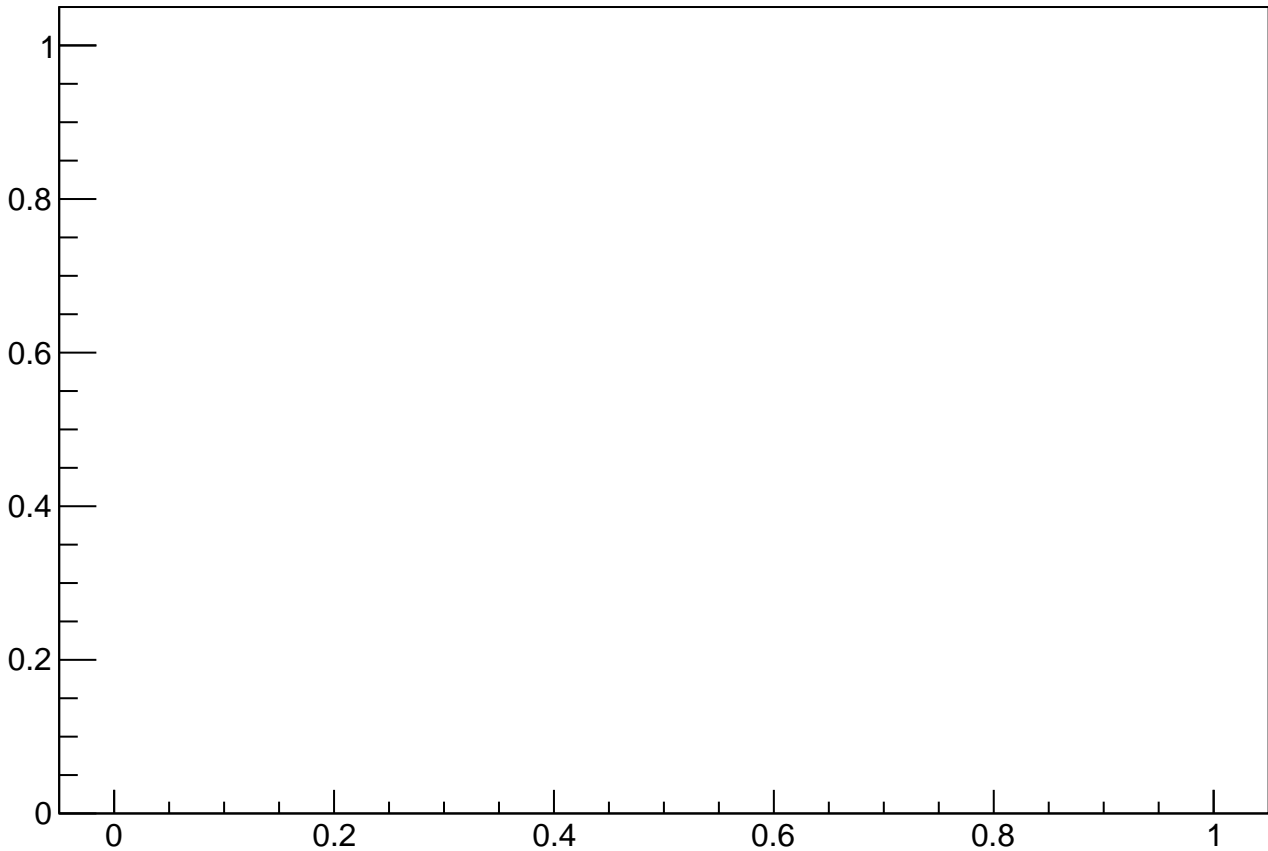
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3803.473+/-1.137  $\chi^2$ /NDF: 317028.8/15

3640.489+/-0.740  $\chi^2$ /NDF: 907758.0/34

3520.545+/-0.975  $\chi^2$ /NDF: 555032.6/18

asym\_atl\_dd\_atr\_dd\_avg\_correction\_mean vs Slug, Sign Corrected



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

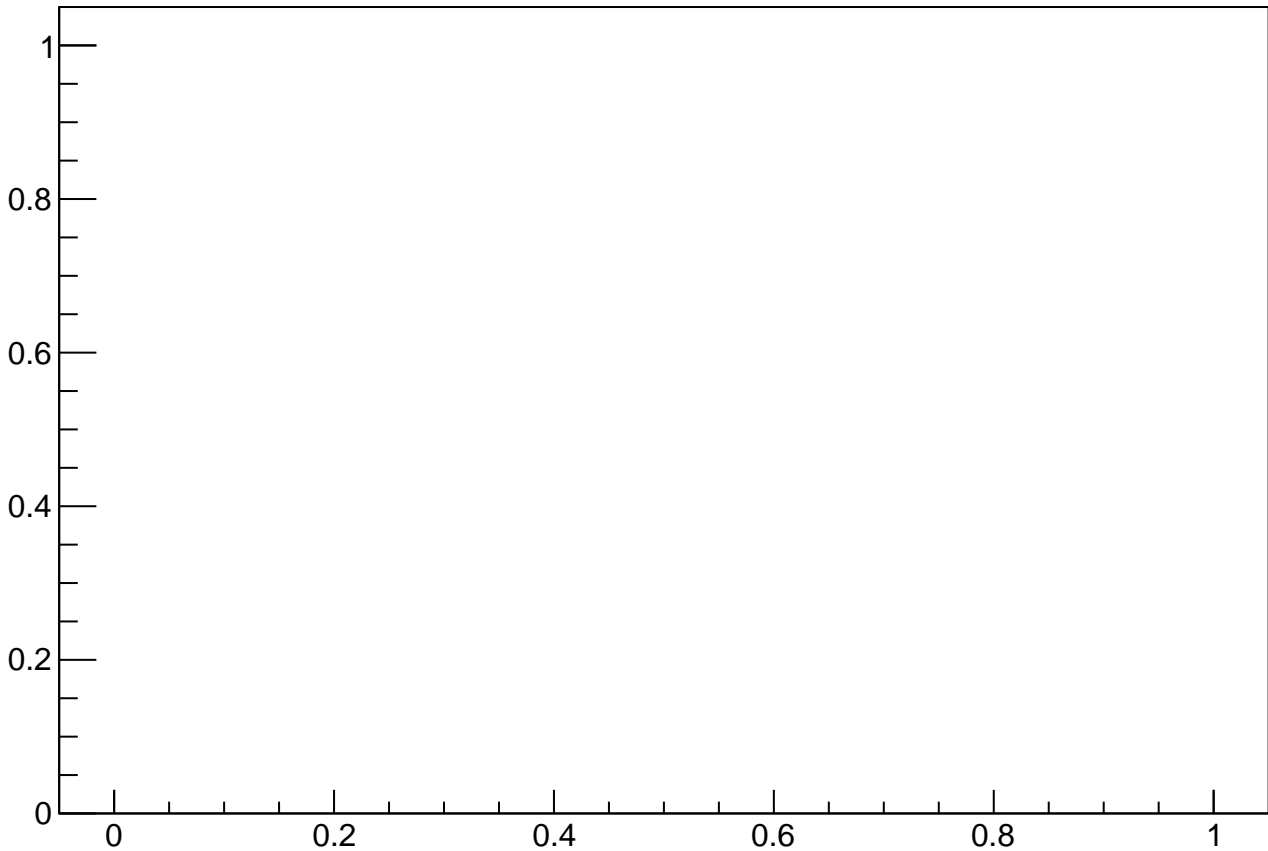
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

asym\_atl\_dd\_atr\_dd\_avg\_correction\_rms vs Slug, Sign Corrected



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

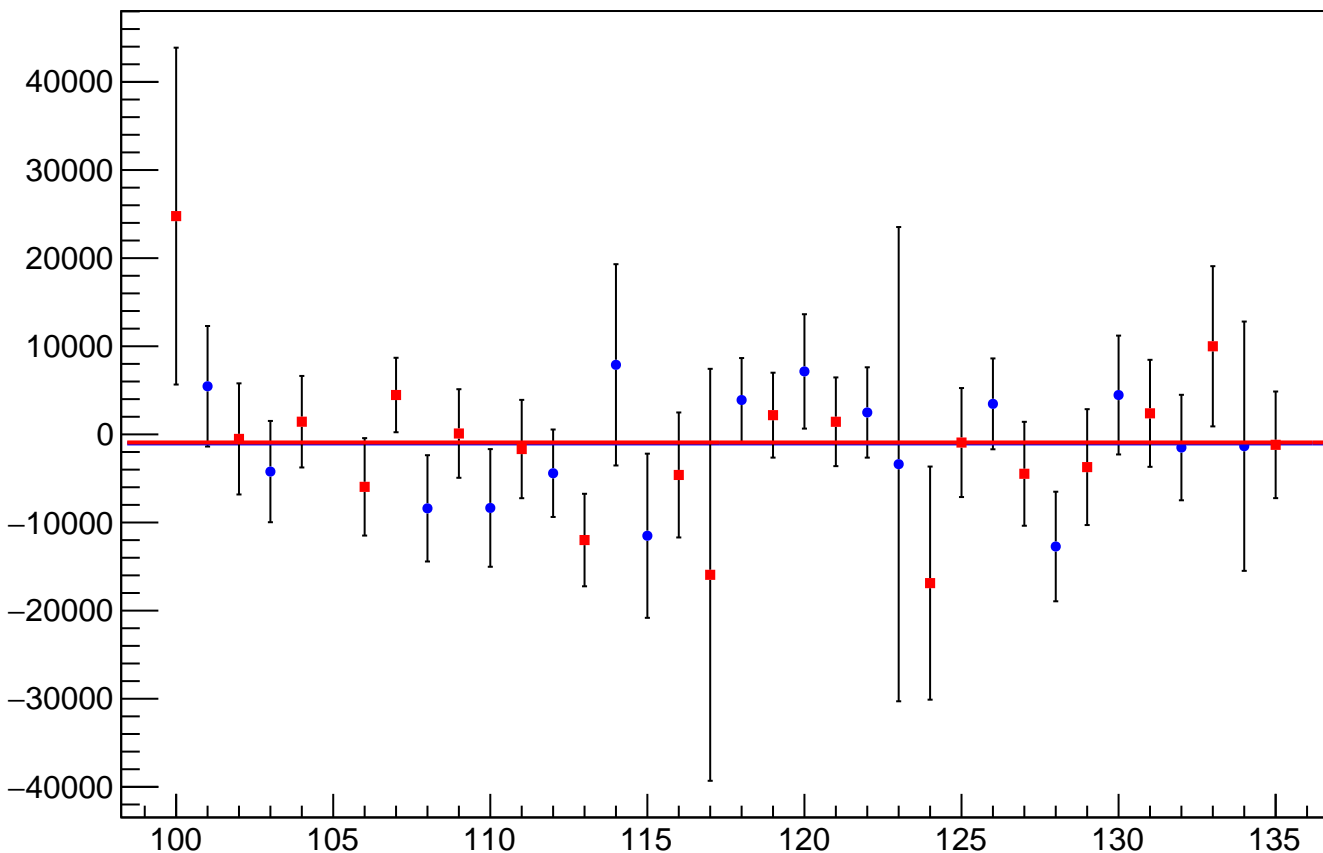
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

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



# asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In:  $-1026.995 \pm 1607.404$   $\chi^2/\text{NDF}: 14.3/15$

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

Right Out:  $-915.907 \pm 1391.773$   $\chi^2/\text{NDF}: 14.0/18$

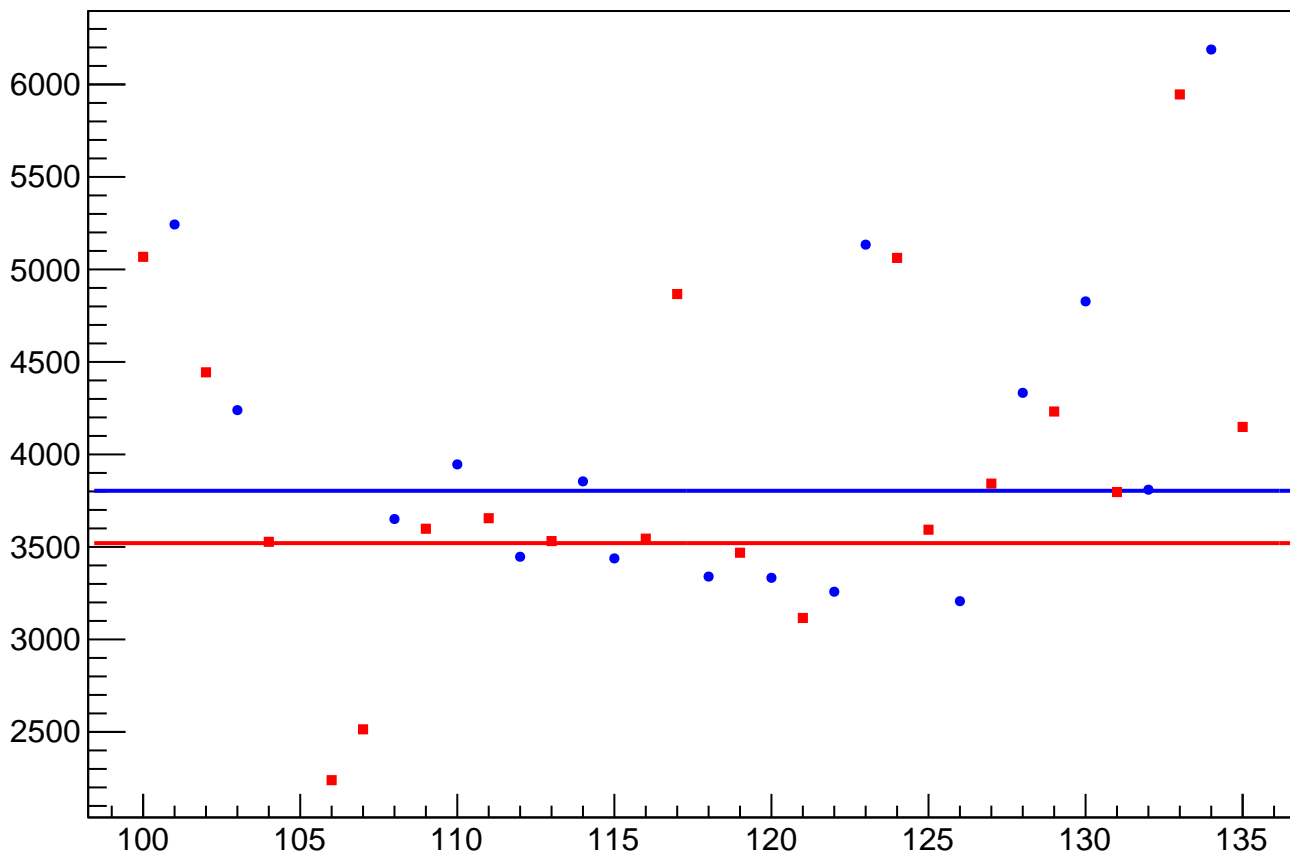
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1026.995 \pm 1607.404$   $\chi^2/\text{NDF}: 14.3/15$

$-963.505 \pm 1052.172$   $\chi^2/\text{NDF}: 28.4/34$

$-915.907 \pm 1391.773$   $\chi^2/\text{NDF}: 14.0/18$

# asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3803.473+/-1.137  $\chi^2$ /NDF: 317028.8/15

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

Right Out: 3520.545+/-0.975  $\chi^2$ /NDF: 555032.6/18

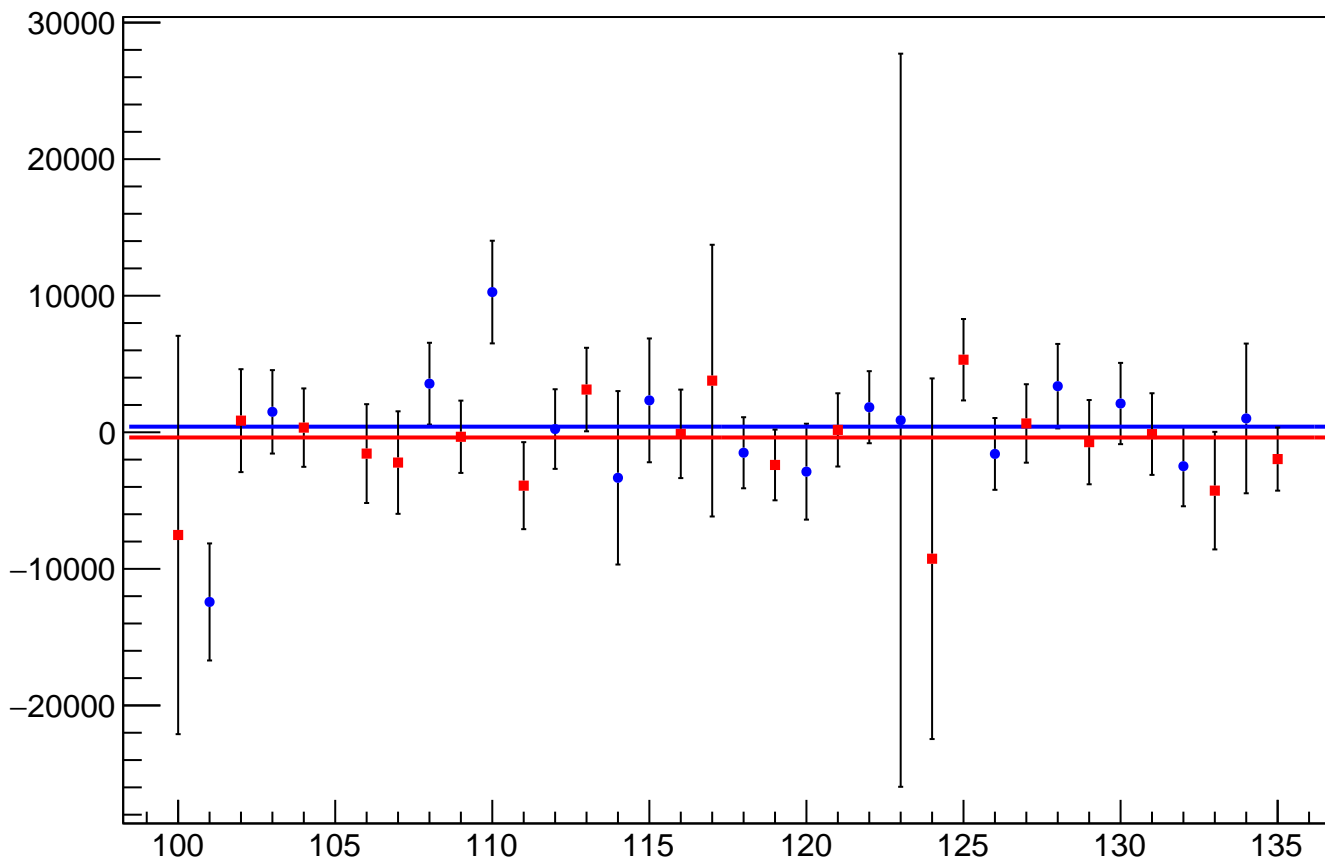
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3803.473+/-1.137  $\chi^2$ /NDF: 317028.8/15

3640.489+/-0.740  $\chi^2$ /NDF: 907758.0/34

3520.545+/-0.975  $\chi^2$ /NDF: 555032.6/18

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 411.988+/-839.092  $\chi^2$ /NDF: 22.1/15

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

Right Out: -379.519+/-748.857  $\chi^2$ /NDF: 9.7/18

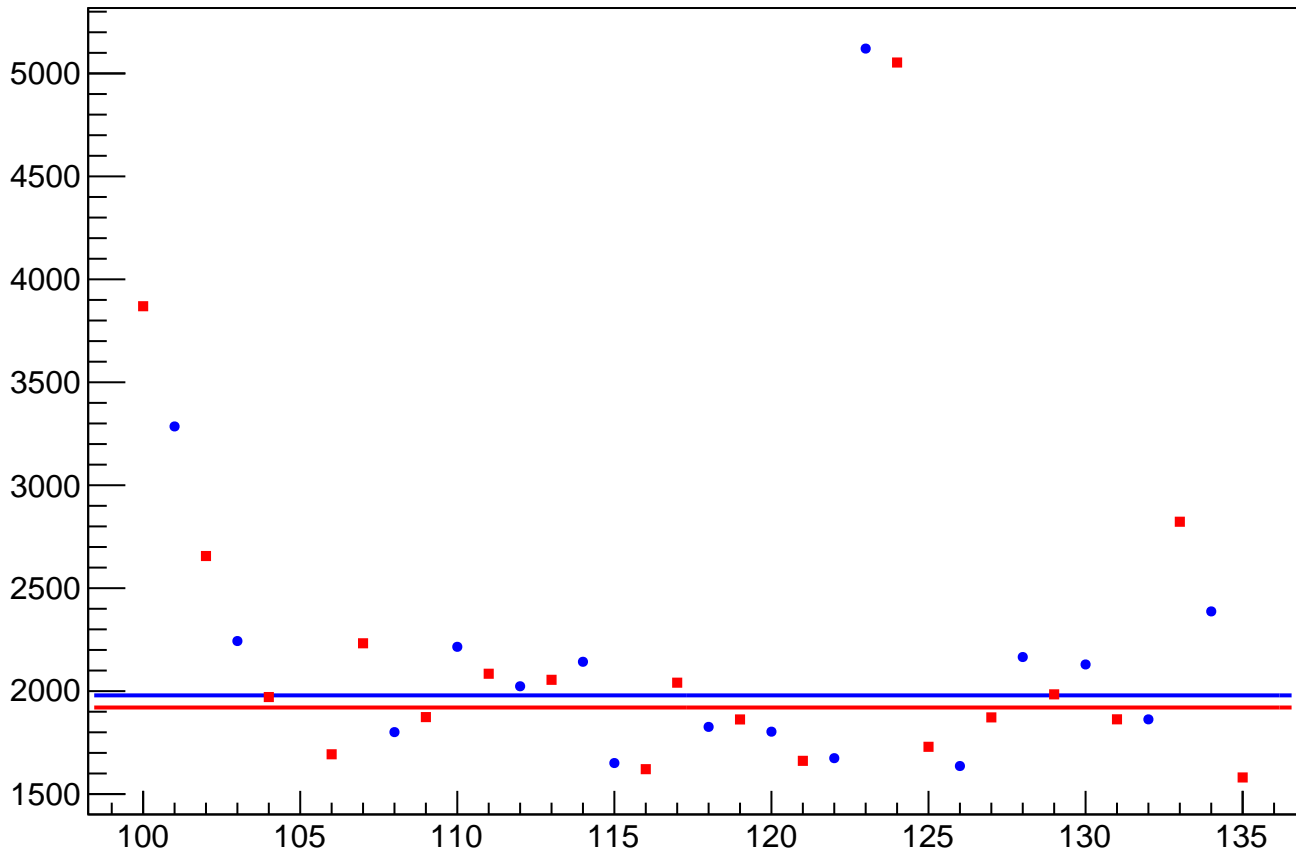
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

411.988+/-839.092  $\chi^2$ /NDF: 22.1/15

-28.598+/-558.711  $\chi^2$ /NDF: 32.3/34

-379.519+/-748.857  $\chi^2$ /NDF: 9.7/18

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 1979.395+/-0.593  $\chi^2$ /NDF: 354698.1/15

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

Right Out: 1920.481+/-0.530  $\chi^2$ /NDF: 435130.1/18

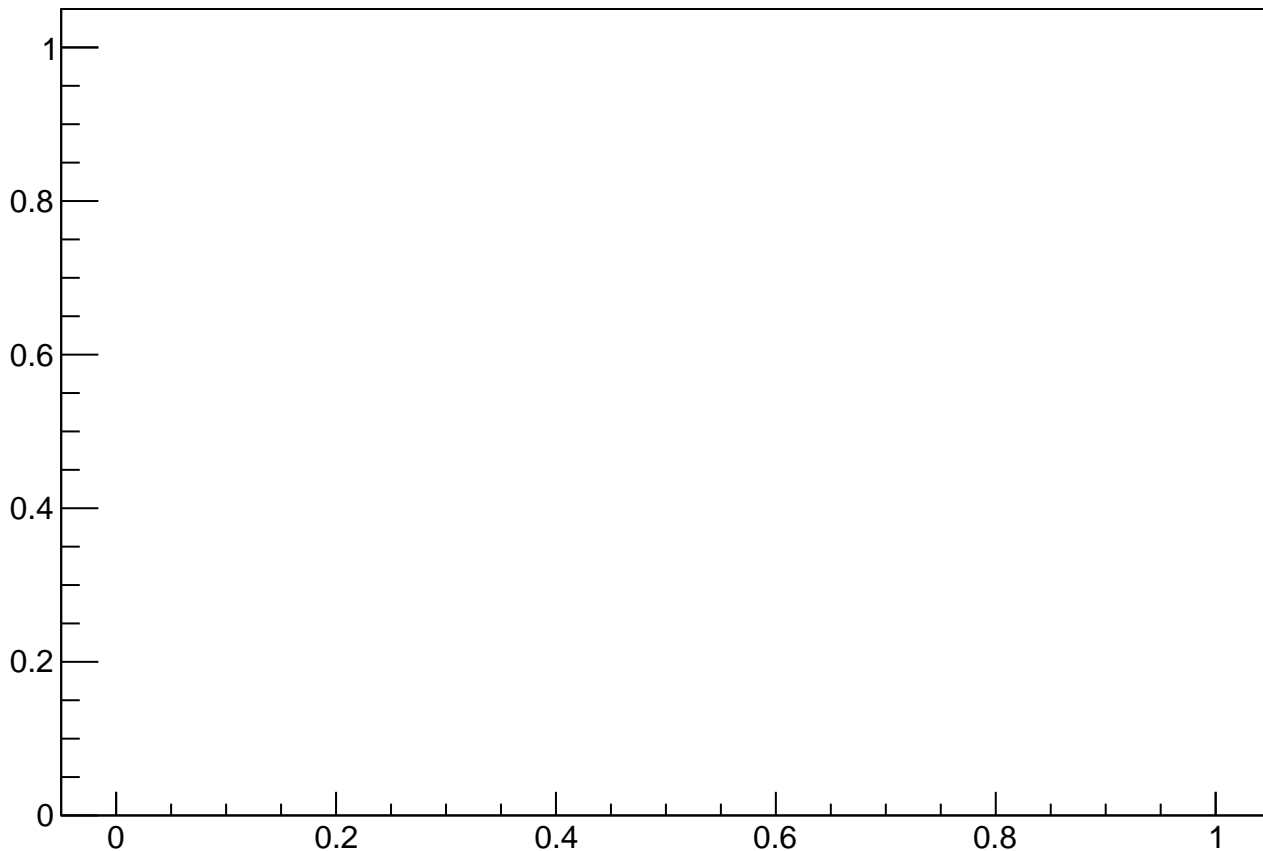
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1979.395+/-0.593  $\chi^2$ /NDF: 354698.1/15

1946.601+/-0.395  $\chi^2$ /NDF: 795316.5/34

1920.481+/-0.530  $\chi^2$ /NDF: 435130.1/18

asym\_atl\_dd\_atr\_dd\_dd\_correction\_mean vs Slug, Sign Corrected



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

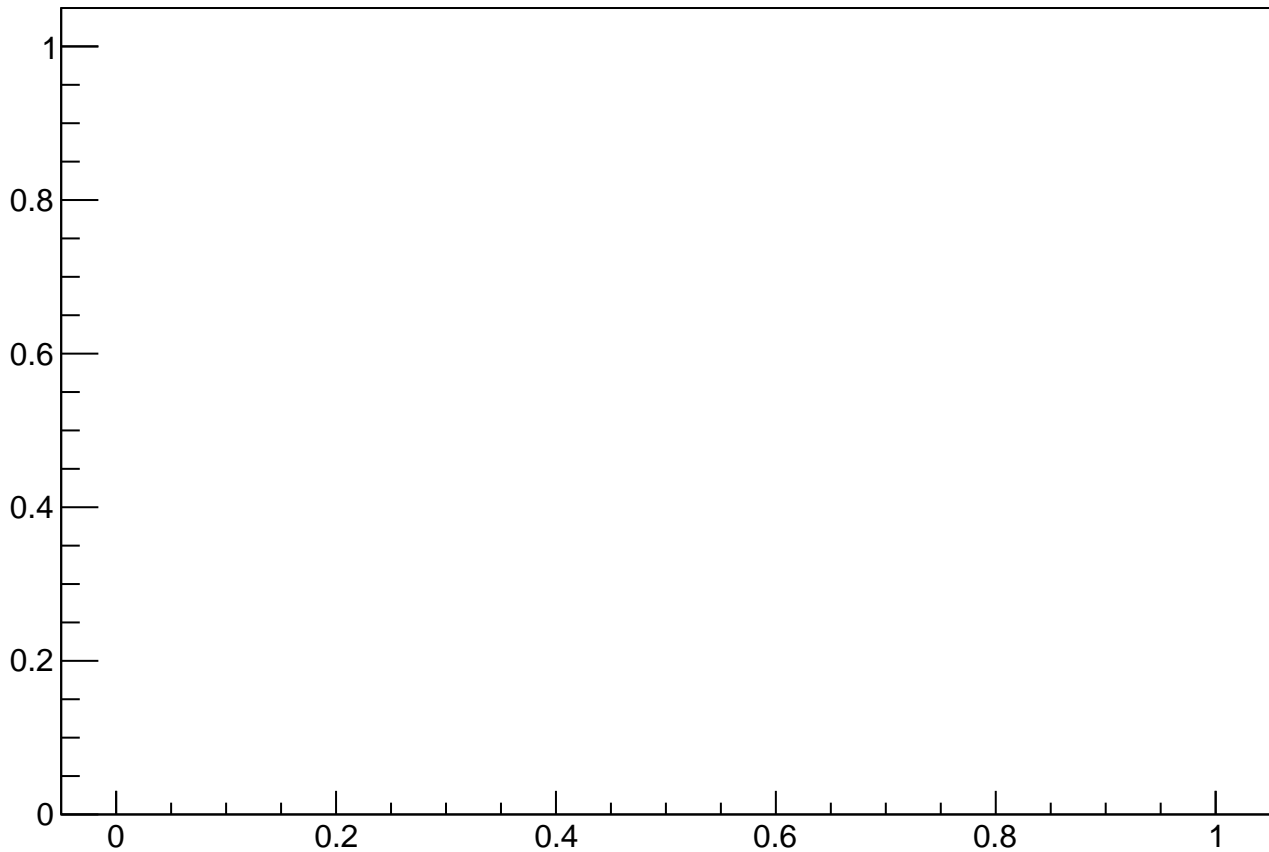
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# asym\_atl\_dd\_atr\_dd\_dd\_correction\_rms vs Slug, Sign Corrected



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

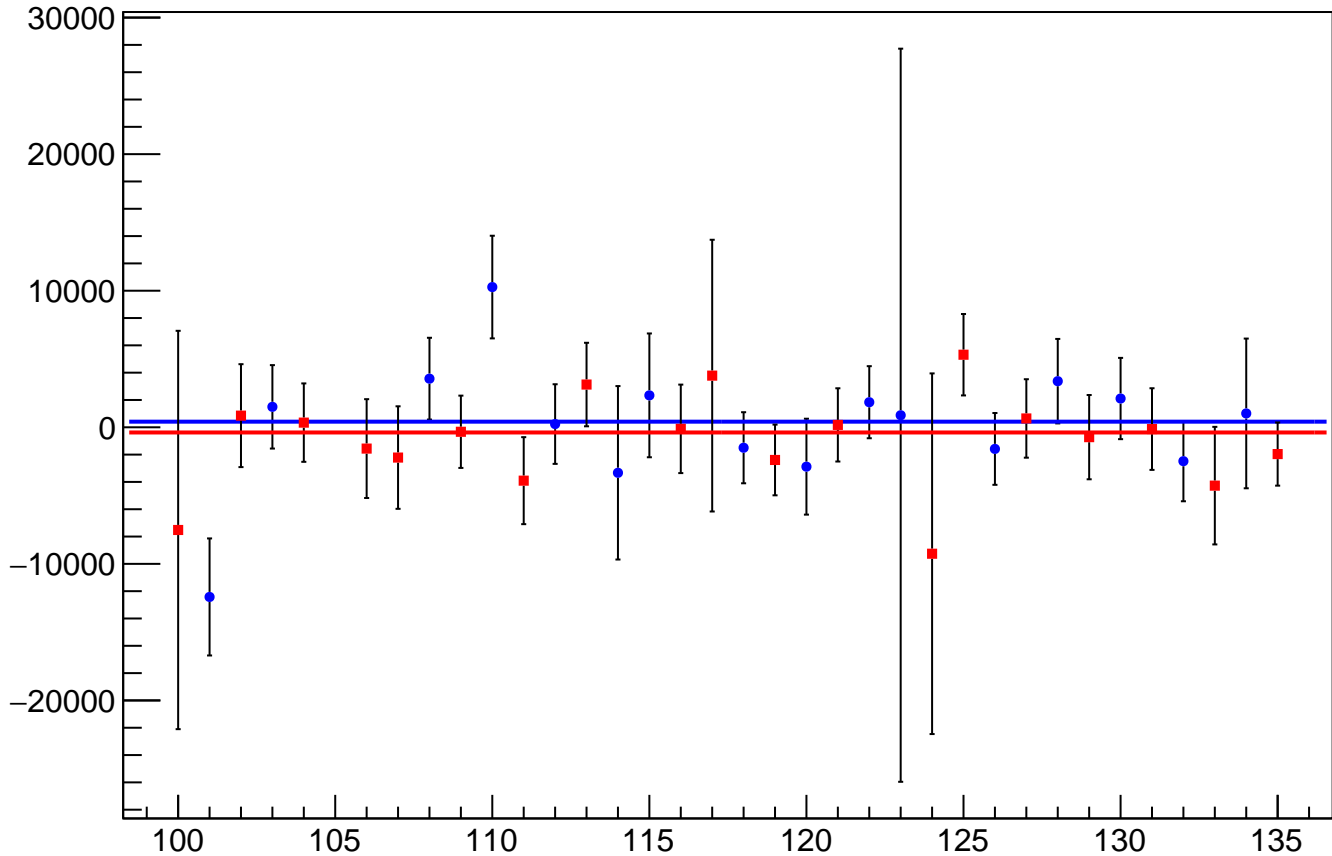
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 411.988+/-839.092  $\chi^2$ /NDF: 22.1/15

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

Right Out: -379.519+/-748.857  $\chi^2$ /NDF: 9.7/18

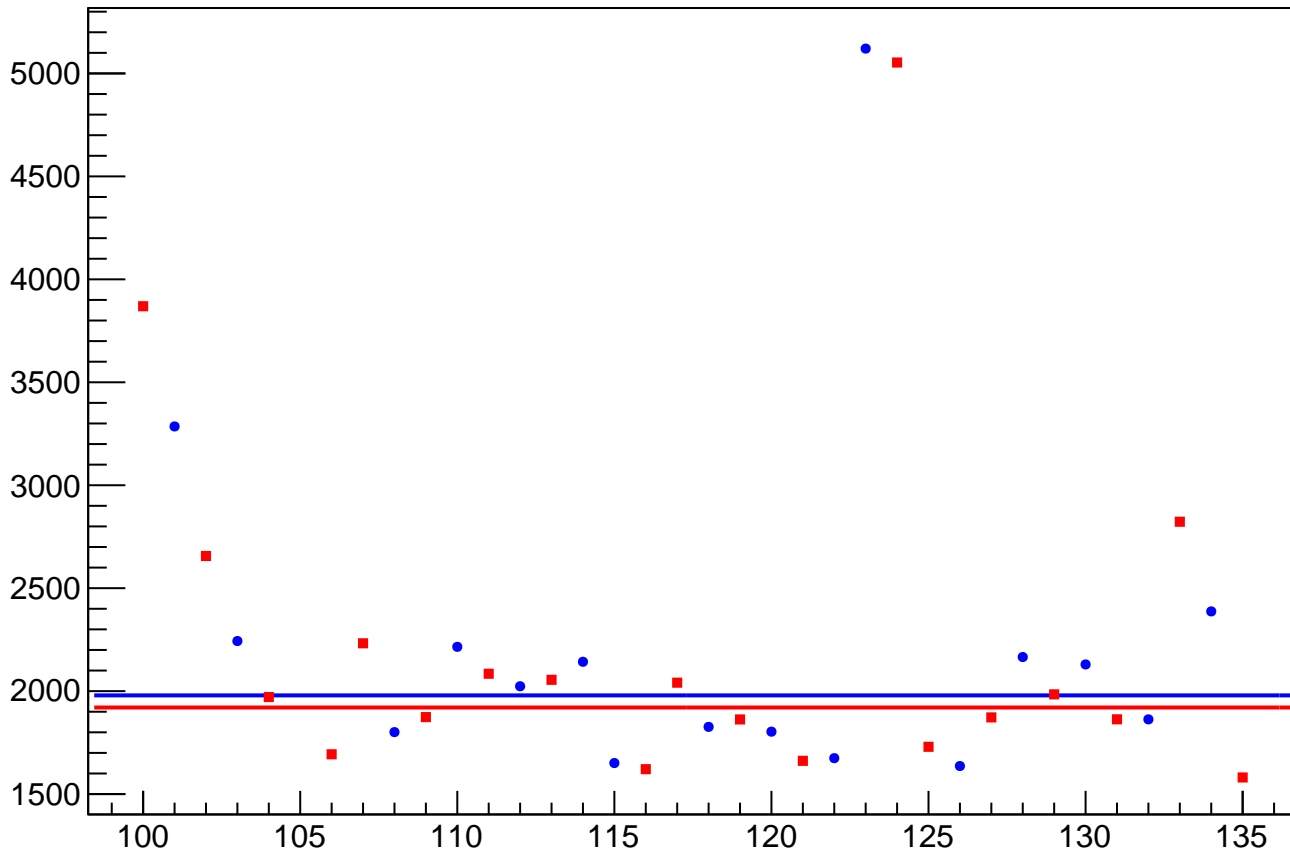
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

411.988+/-839.092  $\chi^2$ /NDF: 22.1/15

-28.598+/-558.711  $\chi^2$ /NDF: 32.3/34

-379.519+/-748.857  $\chi^2$ /NDF: 9.7/18

# asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 1979.395+/-0.593  $\chi^2$ /NDF: 354698.1/15

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

Right Out: 1920.481+/-0.530  $\chi^2$ /NDF: 435130.1/18

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

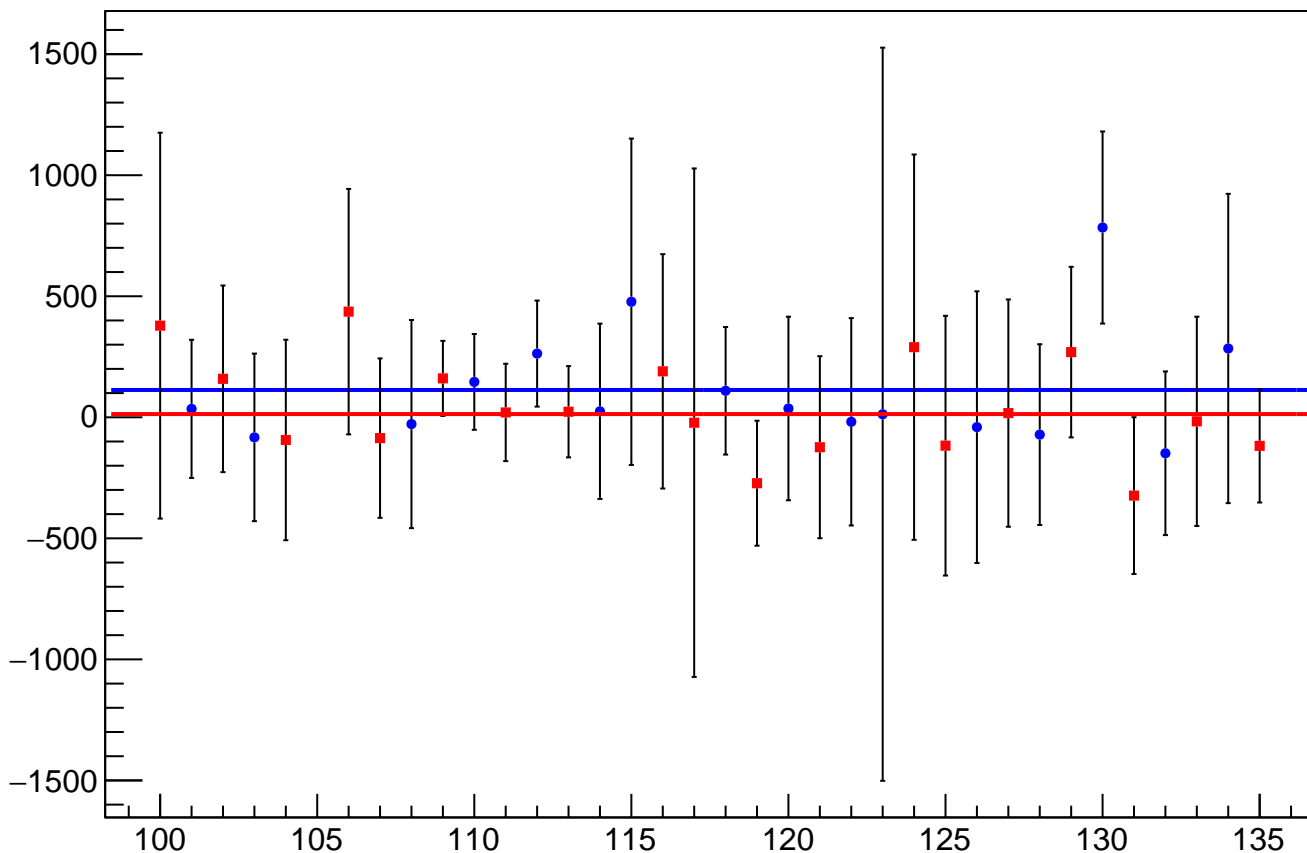
1979.395+/-0.593  $\chi^2$ /NDF: 354698.1/15

1946.601+/-0.395  $\chi^2$ /NDF: 795316.5/34

1920.481+/-0.530  $\chi^2$ /NDF: 435130.1/18



asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 112.909+/-85.306  $\chi^2$ /NDF: 5.3/15

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

Right Out: 13.291+/-70.747  $\chi^2$ /NDF: 5.7/18

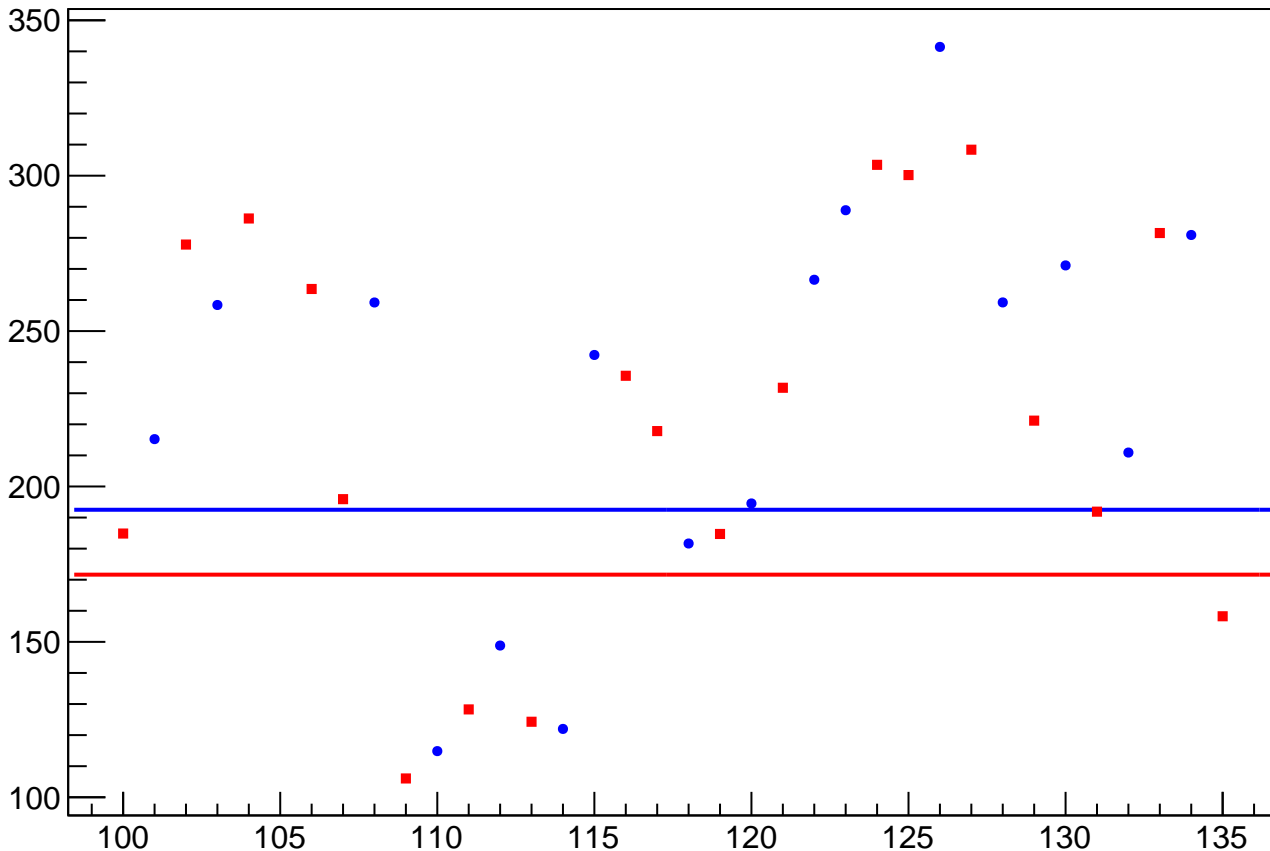
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

112.909+/-85.306  $\chi^2$ /NDF: 5.3/15

53.886+/-54.456  $\chi^2$ /NDF: 11.9/34

13.291+/-70.747  $\chi^2$ /NDF: 5.7/18

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 192.509+/-0.060  $\chi^2$ /NDF: 1006694.7/15

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

Right Out: 171.629+/-0.050  $\chi^2$ /NDF: 1576990.5/18

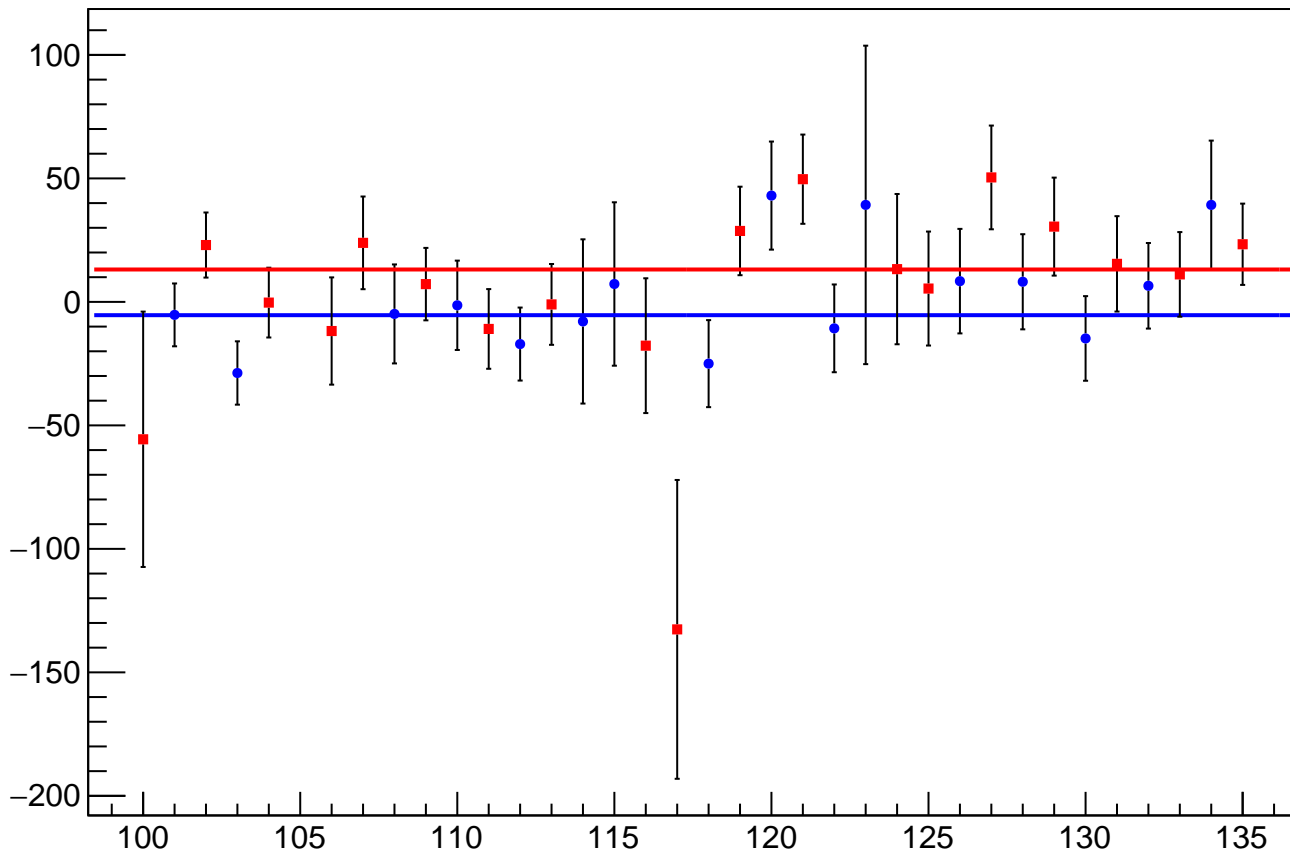
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

192.509+/-0.060  $\chi^2$ /NDF: 1006694.7/15

180.138+/-0.039  $\chi^2$ /NDF: 2654677.5/34

171.629+/-0.050  $\chi^2$ /NDF: 1576990.5/18

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -5.380+/-4.659  $\chi^2$ /NDF: 15.5/15

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

Right Out: 13.118+/-4.316  $\chi^2$ /NDF: 24.4/18

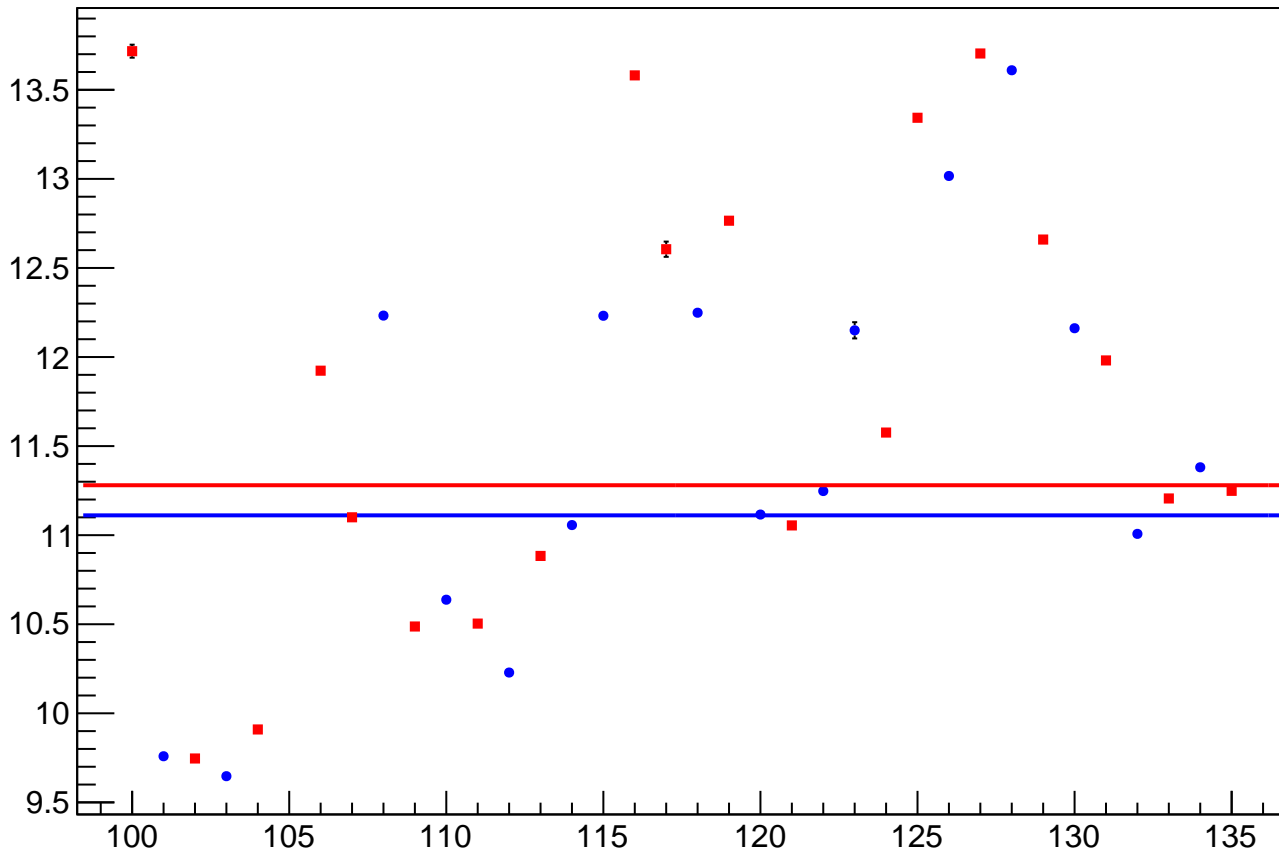
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-5.380+/-4.659  $\chi^2$ /NDF: 15.5/15

4.575+/-3.166  $\chi^2$ /NDF: 48.4/34

13.118+/-4.316  $\chi^2$ /NDF: 24.4/18

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 11.111+/-0.003  $\chi^2$ /NDF: 132384.6/15

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

Right Out: 11.280+/-0.003  $\chi^2$ /NDF: 148357.7/18

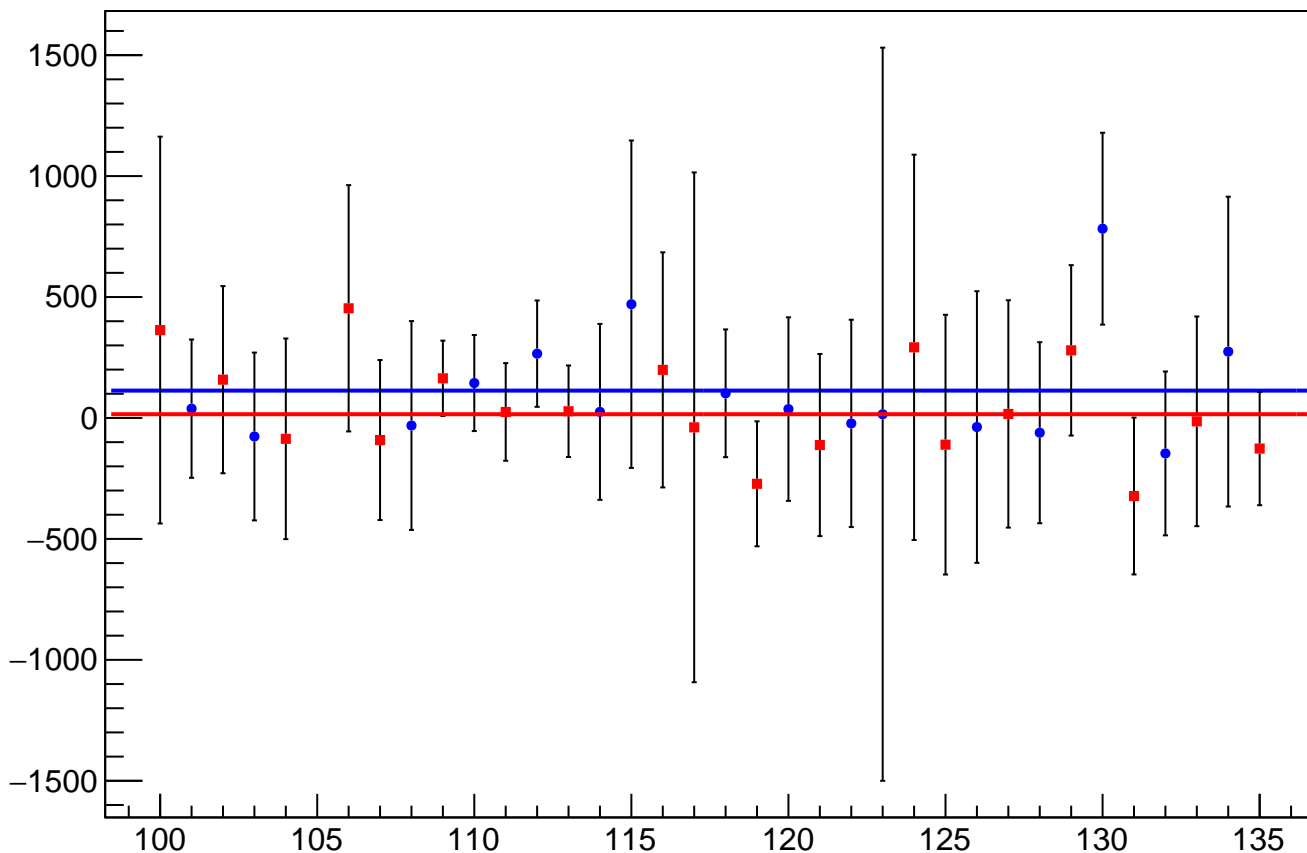
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

11.111+/-0.003  $\chi^2$ /NDF: 132384.6/15

11.202+/-0.002  $\chi^2$ /NDF: 282159.2/34

11.280+/-0.003  $\chi^2$ /NDF: 148357.7/18

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 113.148+/-85.535  $\chi^2$ /NDF: 5.3/15

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

Right Out: 15.555+/-70.953  $\chi^2$ /NDF: 5.8/18

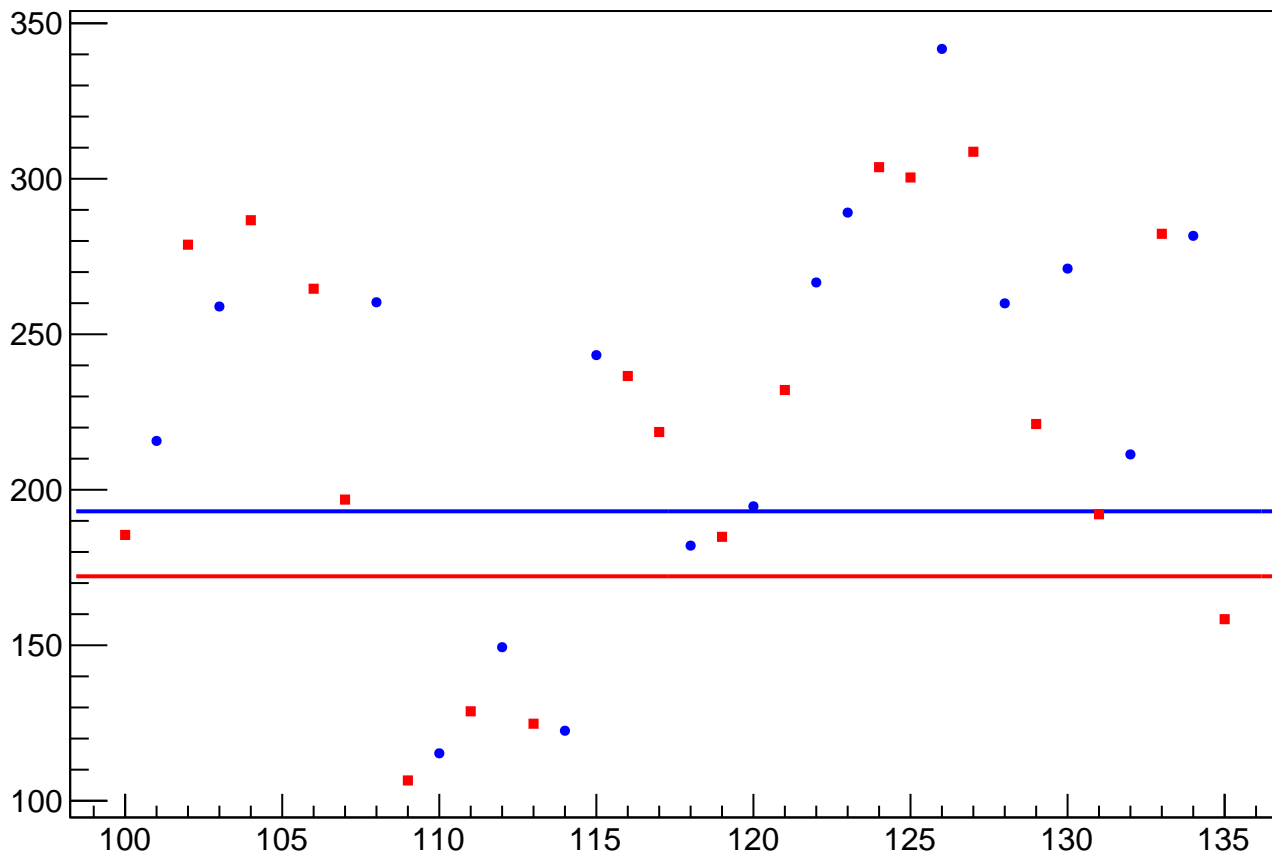
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

113.148+/-85.535  $\chi^2$ /NDF: 5.3/15

55.335+/-54.610  $\chi^2$ /NDF: 11.9/34

15.555+/-70.953  $\chi^2$ /NDF: 5.8/18

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 193.072+/-0.060  $\chi^2$ /NDF: 1001694.5/15

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

Right Out: 172.183+/-0.050  $\chi^2$ /NDF: 1569626.6/18

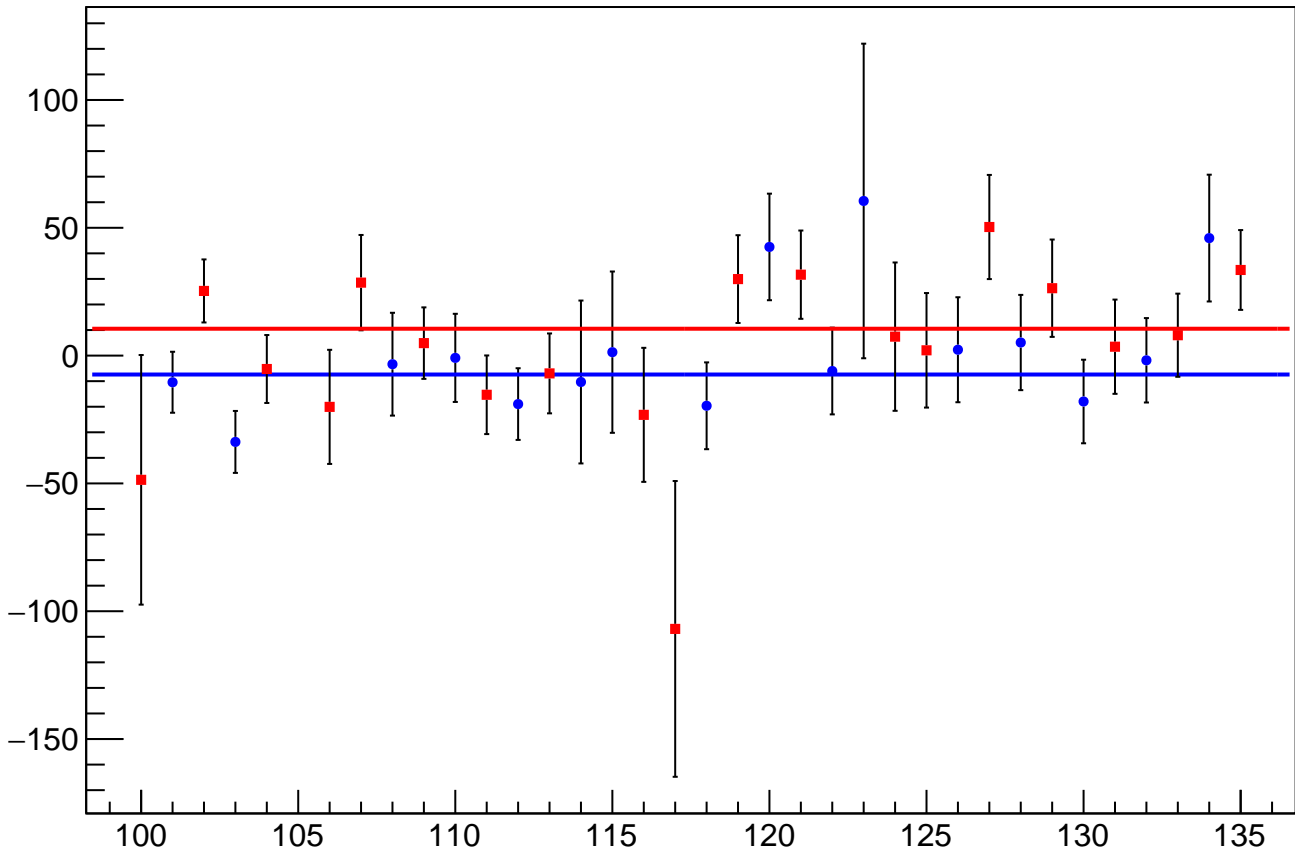
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

193.072+/-0.060  $\chi^2$ /NDF: 1001694.5/15

180.698+/-0.039  $\chi^2$ /NDF: 2641977.9/34

172.183+/-0.050  $\chi^2$ /NDF: 1569626.6/18

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs Slug, Sign Corrected



Right In:  $-7.400 \pm 4.448$   $\chi^2/\text{NDF}$ : 19.1/15

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

Right Out:  $10.513 \pm 4.129$   $\chi^2/\text{NDF}$ : 26.9/18

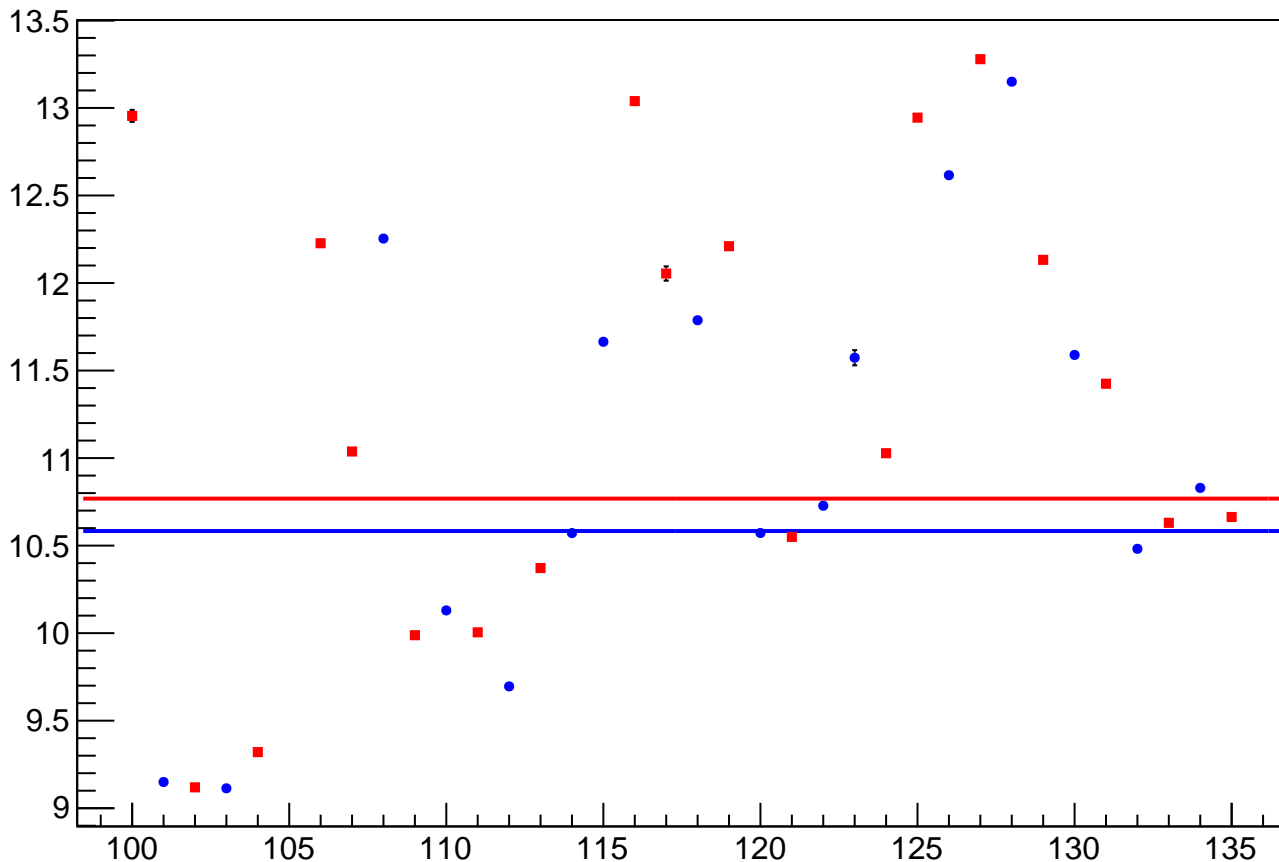
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-7.400 \pm 4.448$   $\chi^2/\text{NDF}$ : 19.1/15

$2.221 \pm 3.026$   $\chi^2/\text{NDF}$ : 54.7/34

$10.513 \pm 4.129$   $\chi^2/\text{NDF}$ : 26.9/18

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 10.583+/-0.003  $\chi^2$ /NDF: 159959.5/15

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

Right Out: 10.769+/-0.003  $\chi^2$ /NDF: 177769.2/18

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

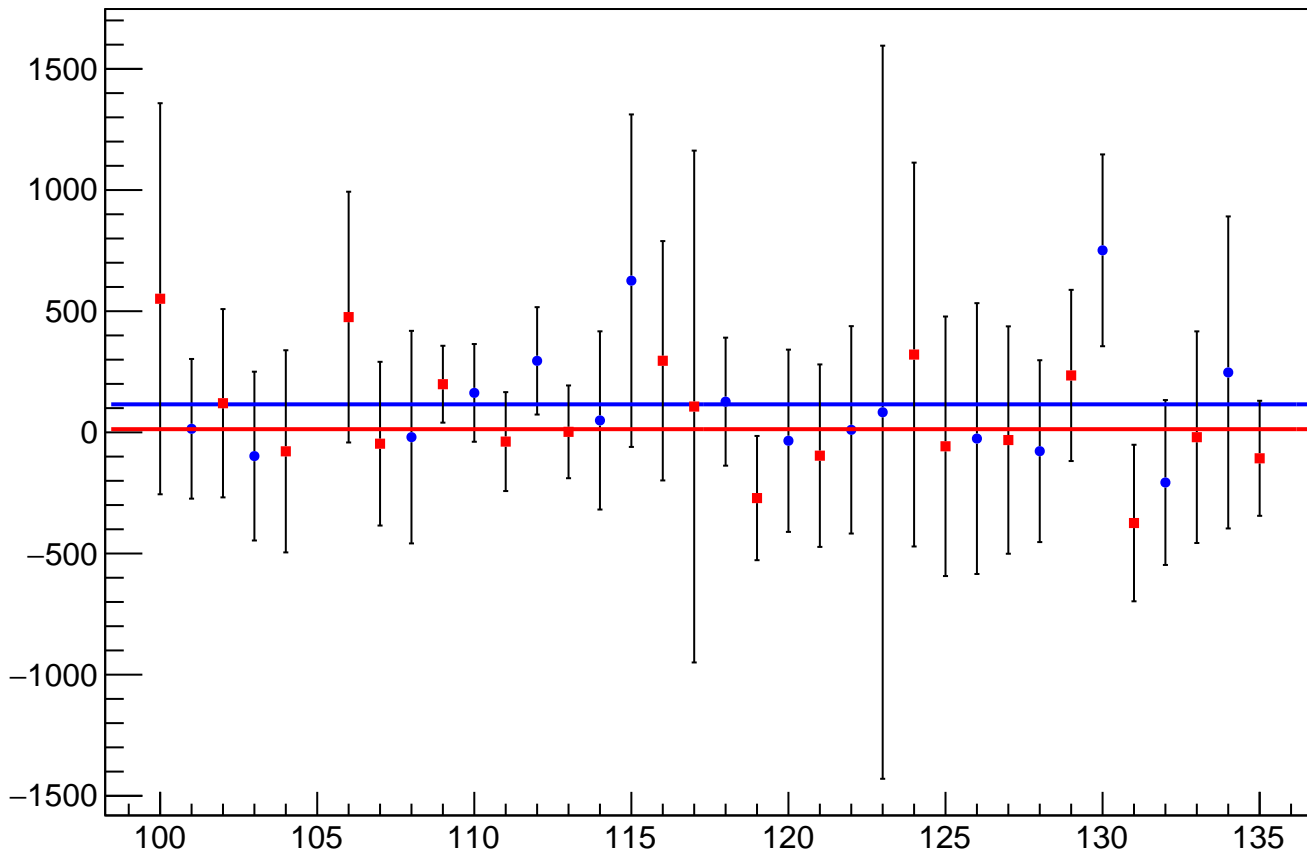
10.583+/-0.003  $\chi^2$ /NDF: 159959.5/15

10.683+/-0.002  $\chi^2$ /NDF: 339590.7/34

10.769+/-0.003  $\chi^2$ /NDF: 177769.2/18



# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 115.628+/-86.073  $\chi^2$ /NDF: 6.0/15

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

Right Out: 13.142+/-71.627  $\chi^2$ /NDF: 6.8/18

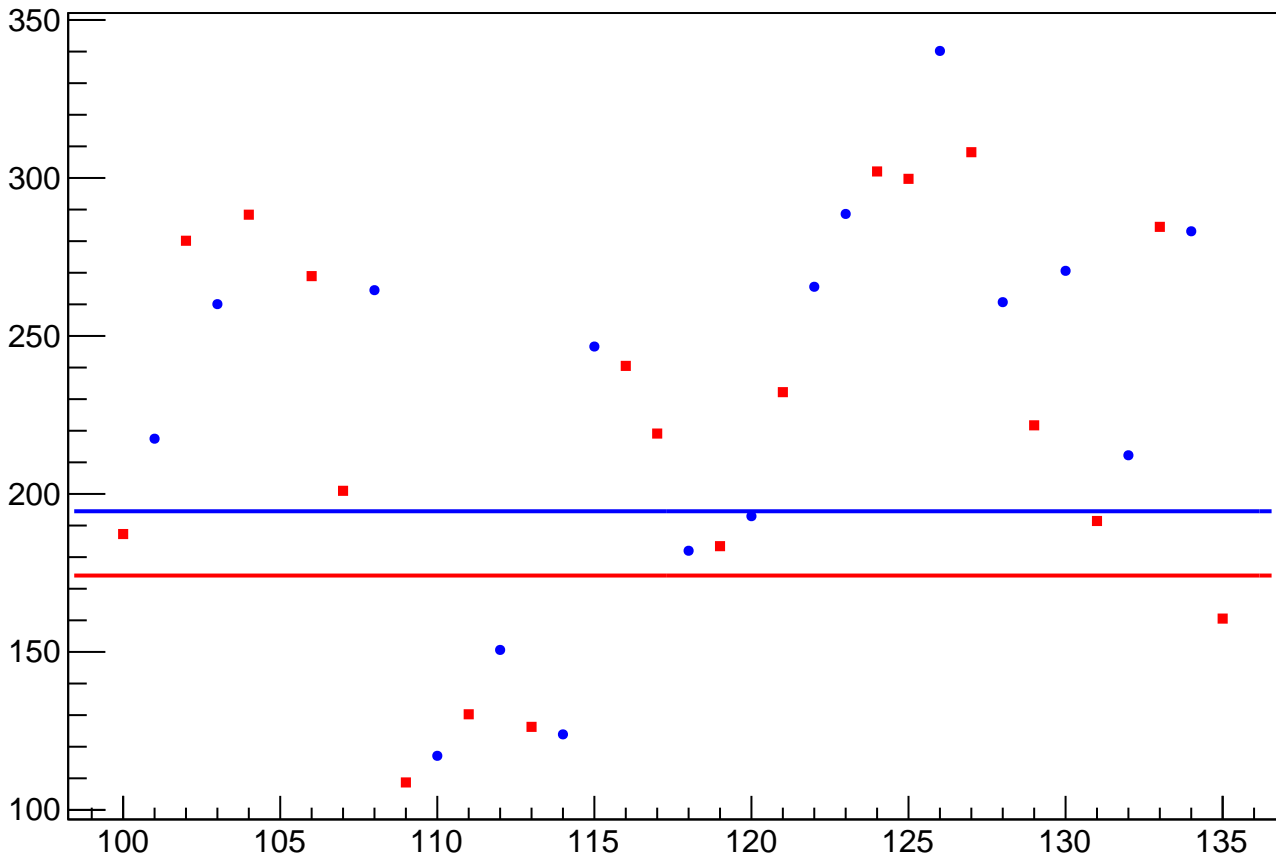
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

115.628+/-86.073  $\chi^2$ /NDF: 6.0/15

55.075+/-55.057  $\chi^2$ /NDF: 13.6/34

13.142+/-71.627  $\chi^2$ /NDF: 6.8/18

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 194.519+/-0.061  $\chi^2/\text{NDF}$ : 975419.4/15

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

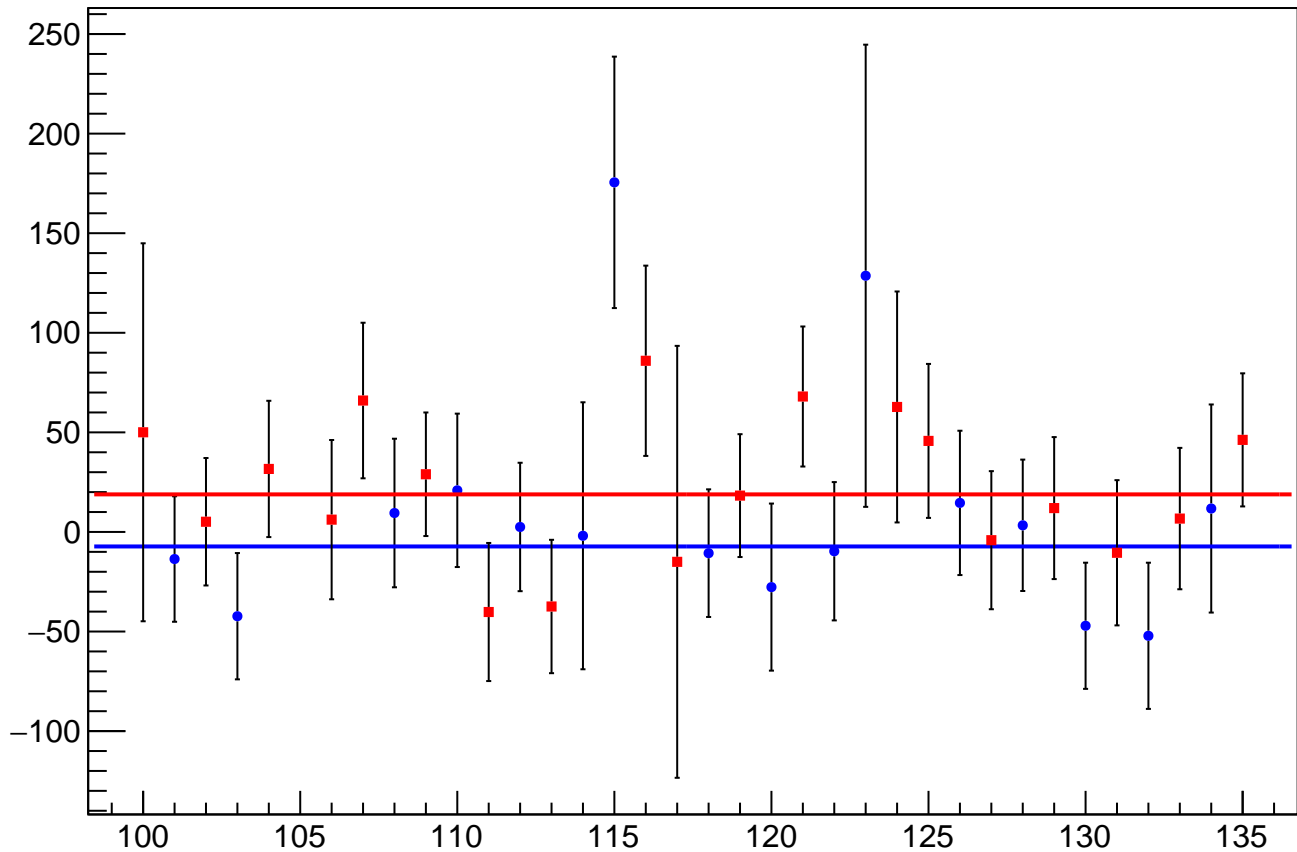
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

194.519+/-0.061  $\chi^2/\text{NDF}$ : 975419.4/15

182.499+/-0.039  $\chi^2/\text{NDF}$ : 2570021.6/34

174.175+/-0.051  $\chi^2/\text{NDF}$ : 1528586.3/18

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -7.286+/-9.507  $\chi^2$ /NDF: 15.8/15

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

Right Out: 18.861+/-8.640  $\chi^2$ /NDF: 14.8/18

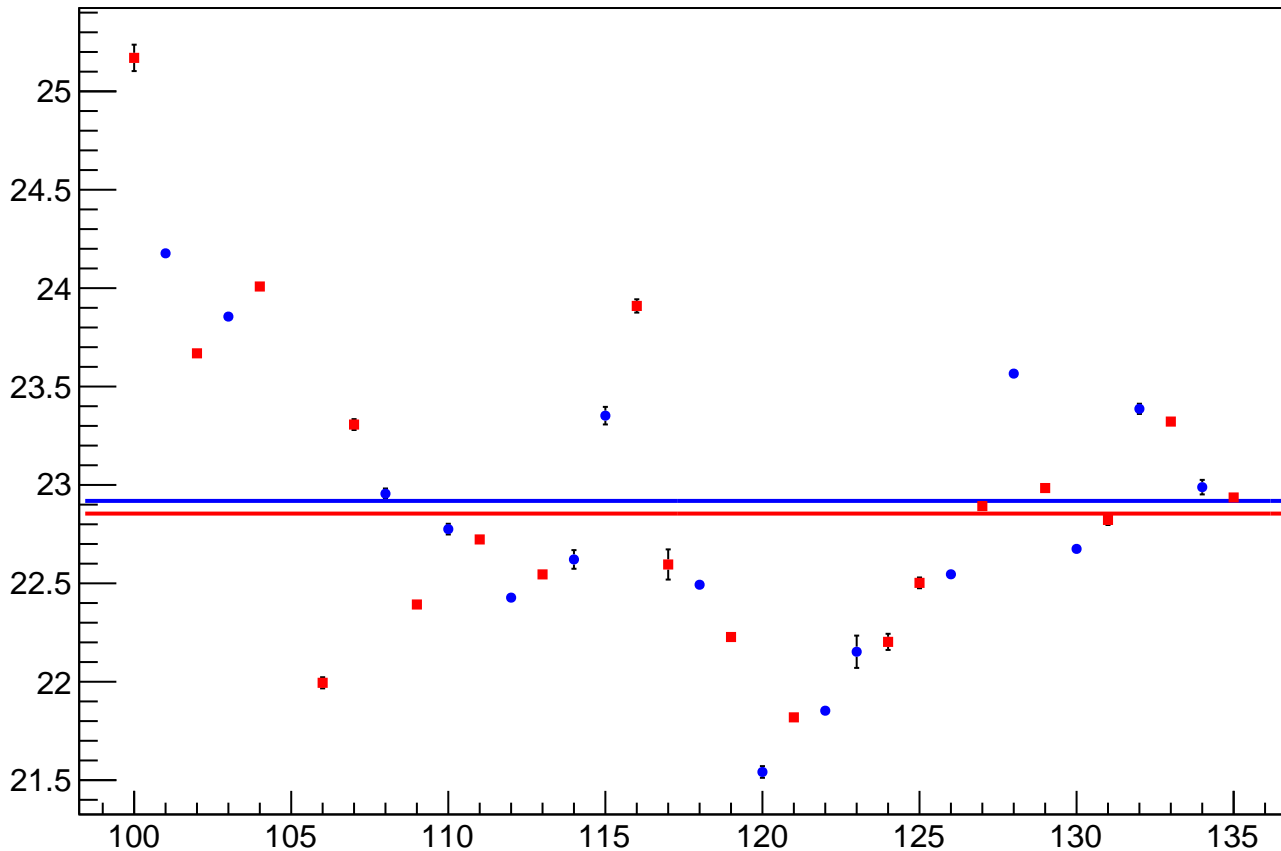
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-7.286+/-9.507  $\chi^2$ /NDF: 15.8/15

7.035+/-6.394  $\chi^2$ /NDF: 34.7/34

18.861+/-8.640  $\chi^2$ /NDF: 14.8/18

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 22.919+/-0.007  $\chi^2$ /NDF: 11472.0/15

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

Right Out: 22.854+/-0.006  $\chi^2$ /NDF: 10953.9/18

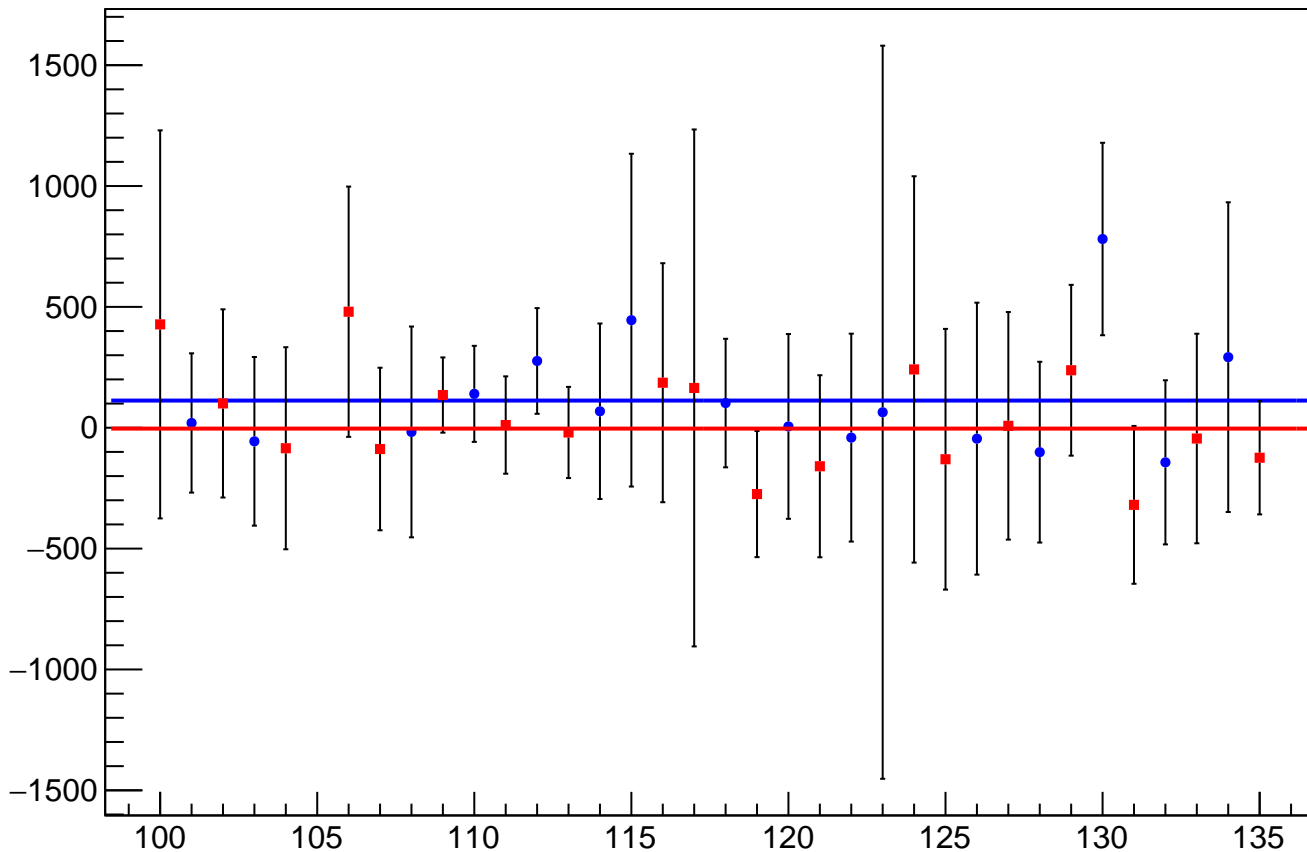
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

22.919+/-0.007  $\chi^2$ /NDF: 11472.0/15

22.884+/-0.005  $\chi^2$ /NDF: 22476.2/34

22.854+/-0.006  $\chi^2$ /NDF: 10953.9/18

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 112.436+/-85.734  $\chi^2$ /NDF: 5.3/15

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

Right Out: -3.543+/-71.136  $\chi^2$ /NDF: 5.4/18

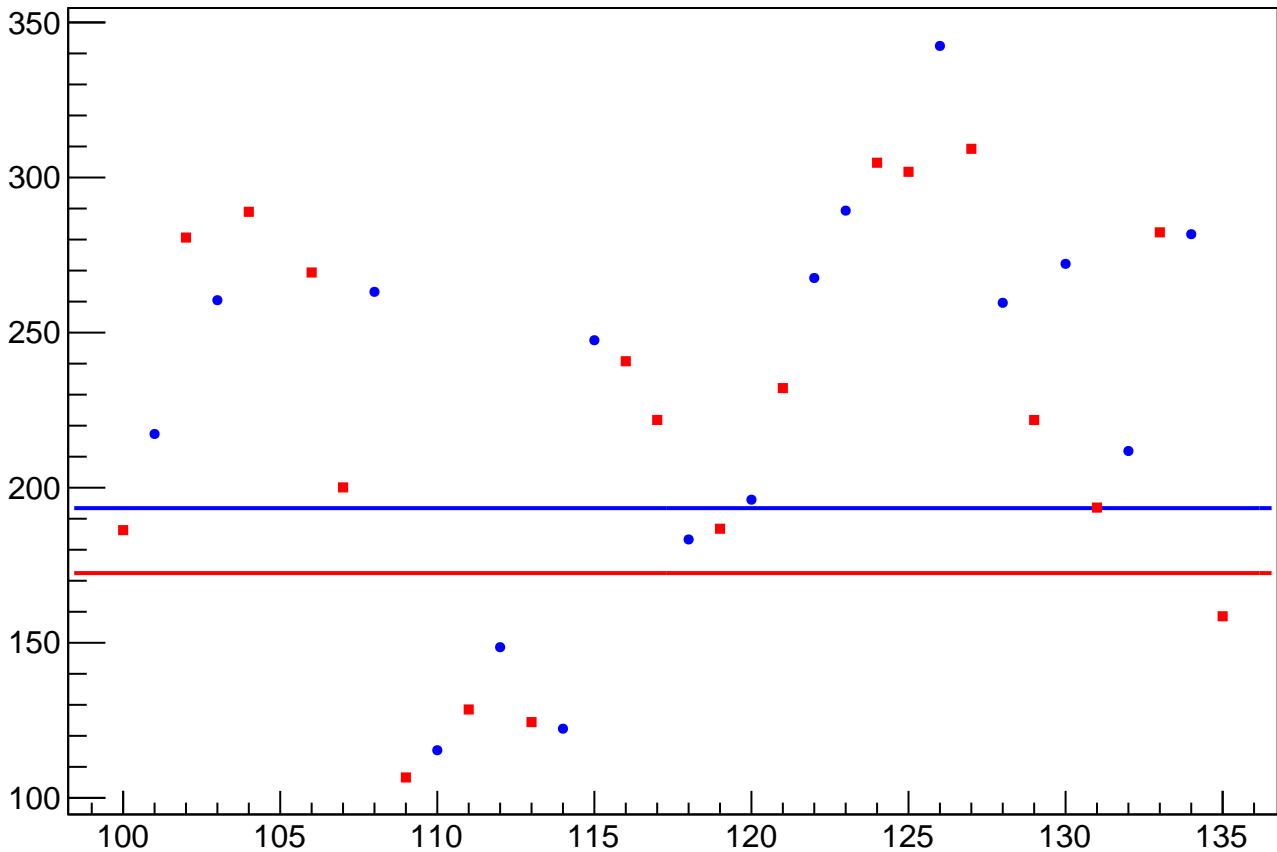
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

112.436+/-85.734  $\chi^2$ /NDF: 5.3/15

43.746+/-54.745  $\chi^2$ /NDF: 11.8/34

-3.543+/-71.136  $\chi^2$ /NDF: 5.4/18

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 193.410+/-0.061  $\chi^2$ /NDF: 1016356.1/15

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

Right Out: 172.475+/-0.050  $\chi^2$ /NDF: 1597373.9/18

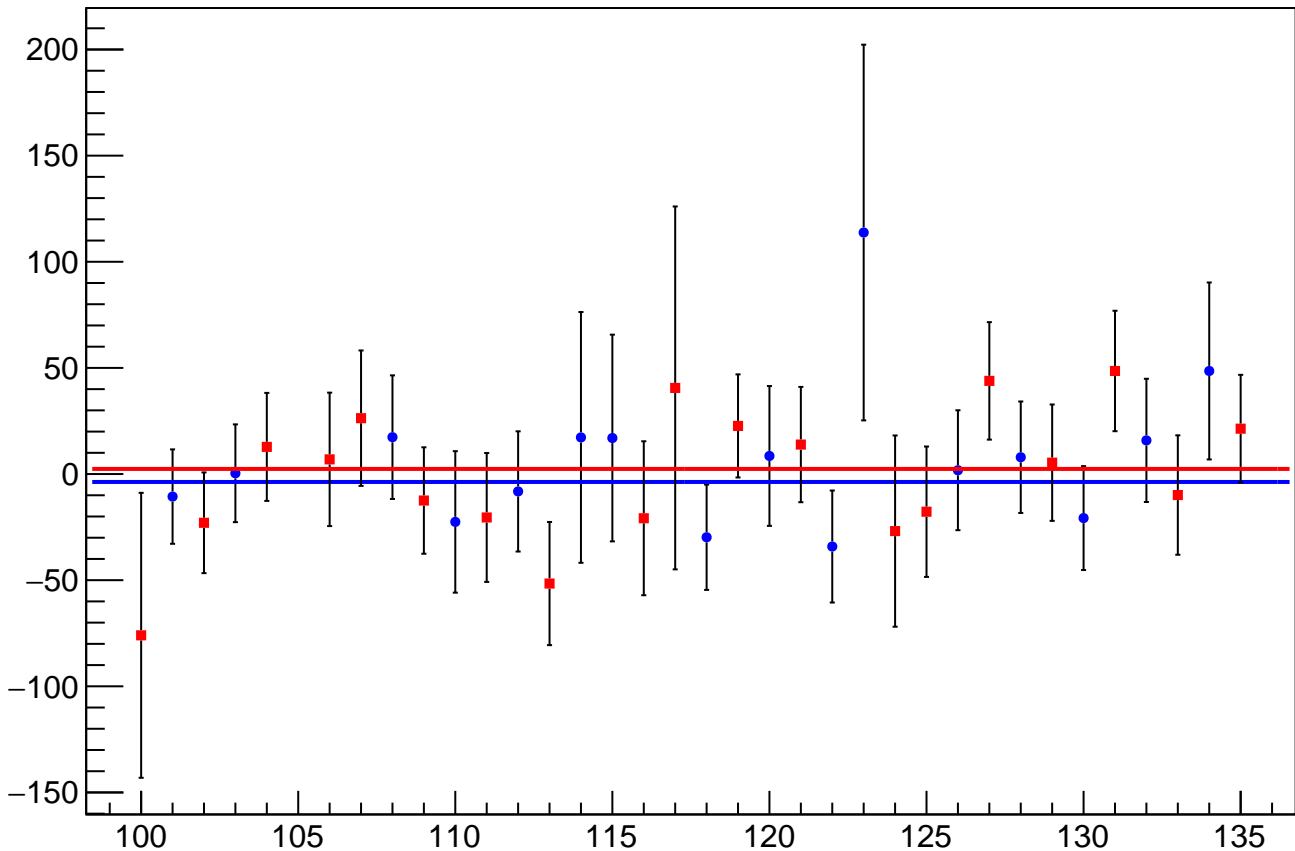
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

193.410+/-0.061  $\chi^2$ /NDF: 1016356.1/15

181.011+/-0.039  $\chi^2$ /NDF: 2684354.8/34

172.475+/-0.050  $\chi^2$ /NDF: 1597373.9/18

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -3.731+/-7.414  $\chi^2$ /NDF: 8.4/15

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

Right Out: 2.408+/-6.804  $\chi^2$ /NDF: 15.6/18

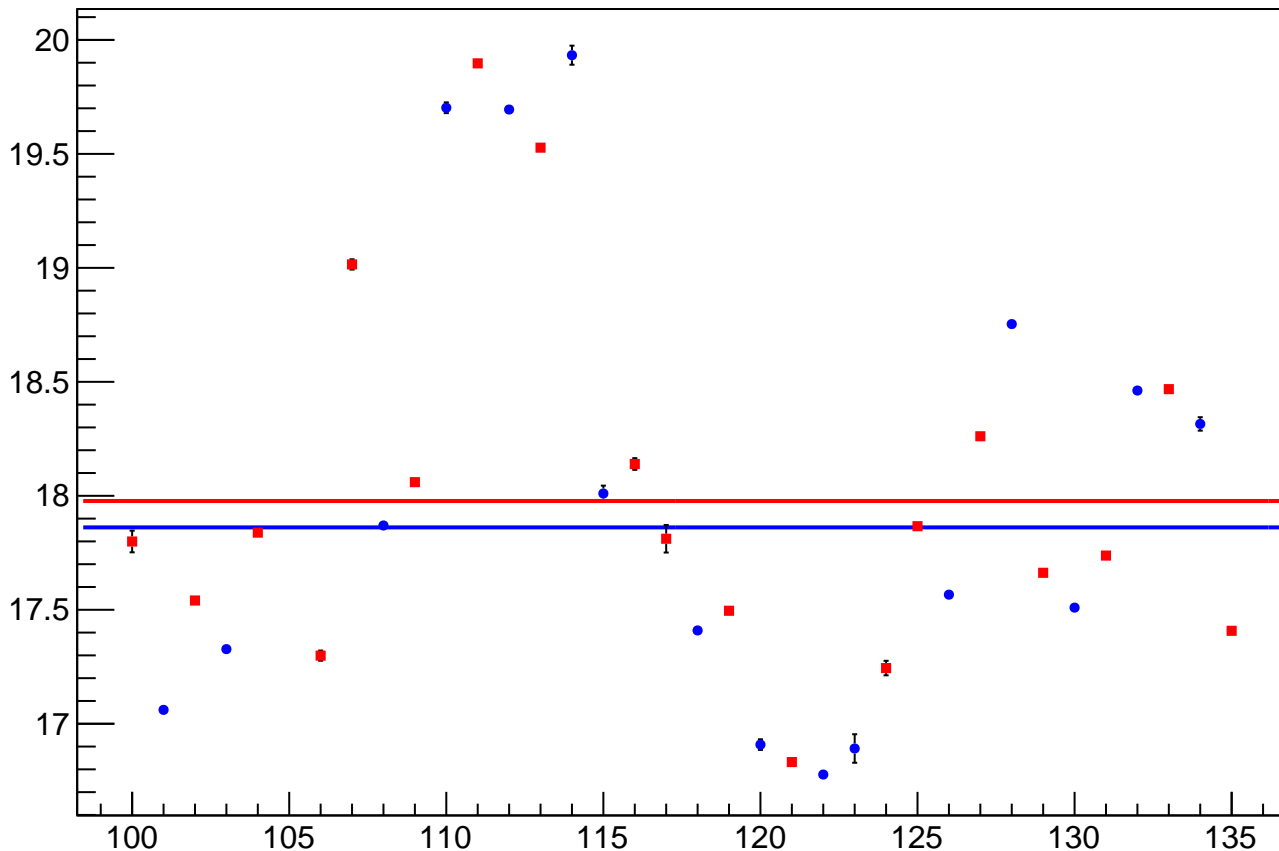
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-3.731+/-7.414  $\chi^2$ /NDF: 8.4/15

-0.398+/-5.013  $\chi^2$ /NDF: 24.4/34

2.408+/-6.804  $\chi^2$ /NDF: 15.6/18

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 17.861+/-0.005  $\chi^2$ /NDF: 30617.2/15

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

Right Out: 17.977+/-0.005  $\chi^2$ /NDF: 24705.6/18

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

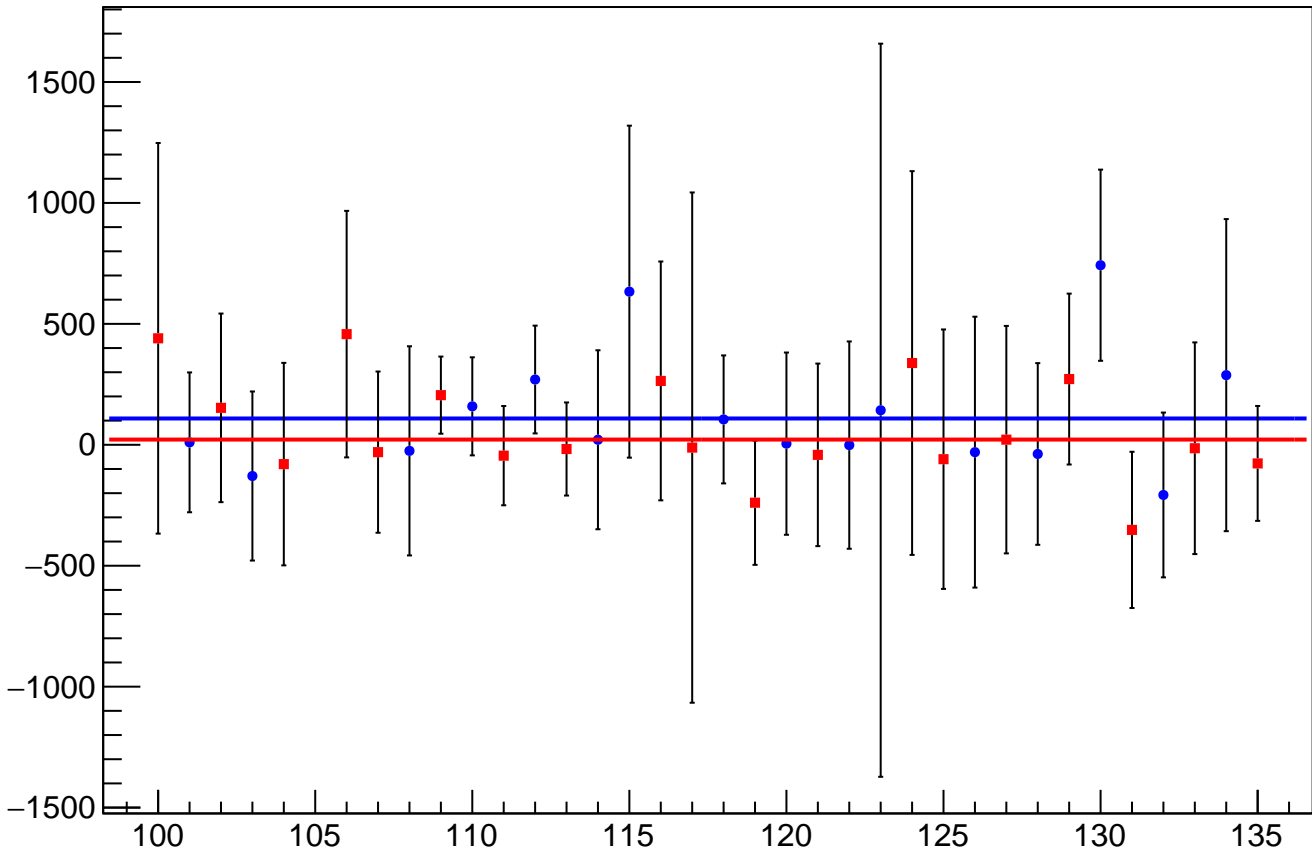
17.861+/-0.005  $\chi^2$ /NDF: 30617.2/15

17.924+/-0.004  $\chi^2$ /NDF: 55588.2/34

17.977+/-0.005  $\chi^2$ /NDF: 24705.6/18



# asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 108.812 $\pm$ 86.285  $\chi^2$ /NDF: 5.8/15

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

Right Out: 21.632 $\pm$ 71.785  $\chi^2$ /NDF: 6.2/18

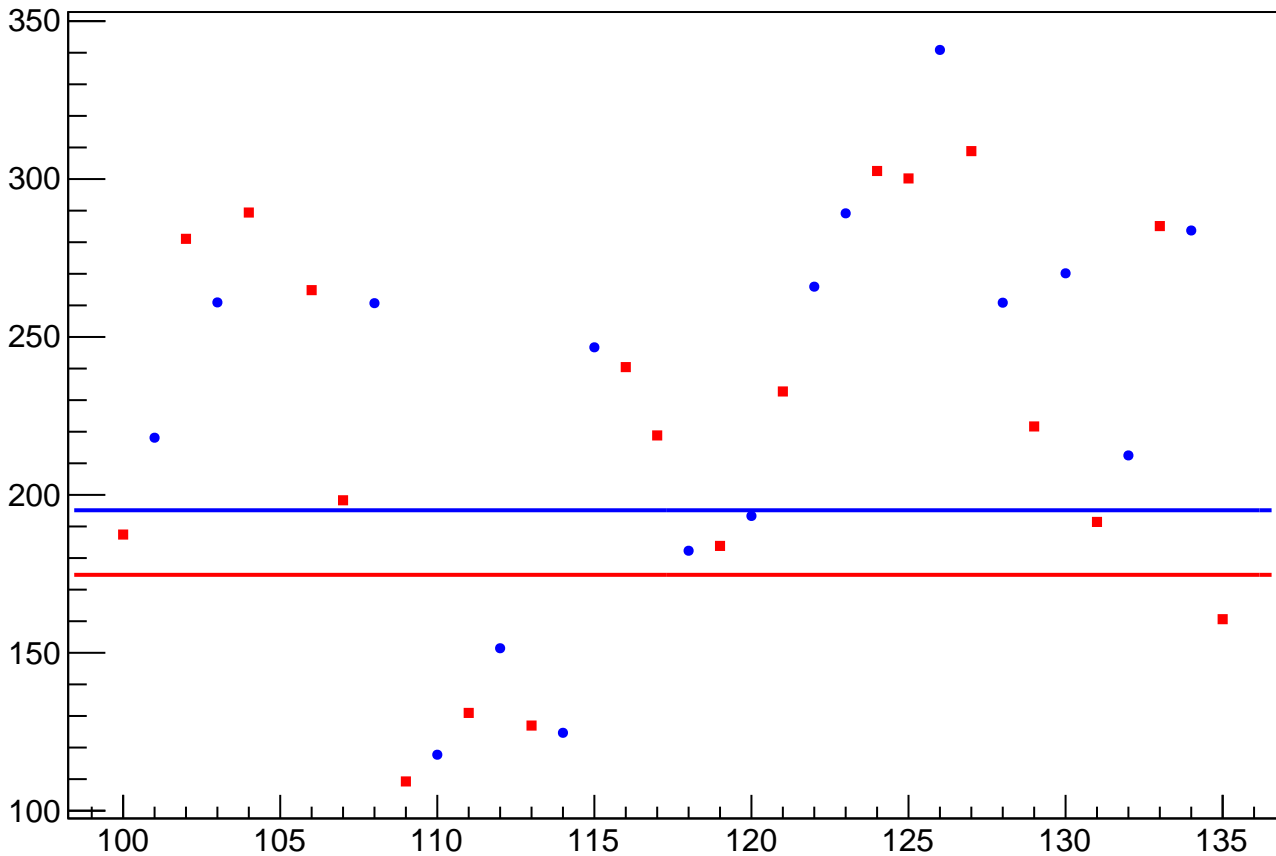
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

108.812 $\pm$ 86.285  $\chi^2$ /NDF: 5.8/15

57.291 $\pm$ 55.184  $\chi^2$ /NDF: 12.5/34

21.632 $\pm$ 71.785  $\chi^2$ /NDF: 6.2/18

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 195.131+/-0.061  $\chi^2/\text{NDF}$ : 960534.4/15

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

Right Out: 174.688+/-0.051  $\chi^2/\text{NDF}$ : 1510797.0/18

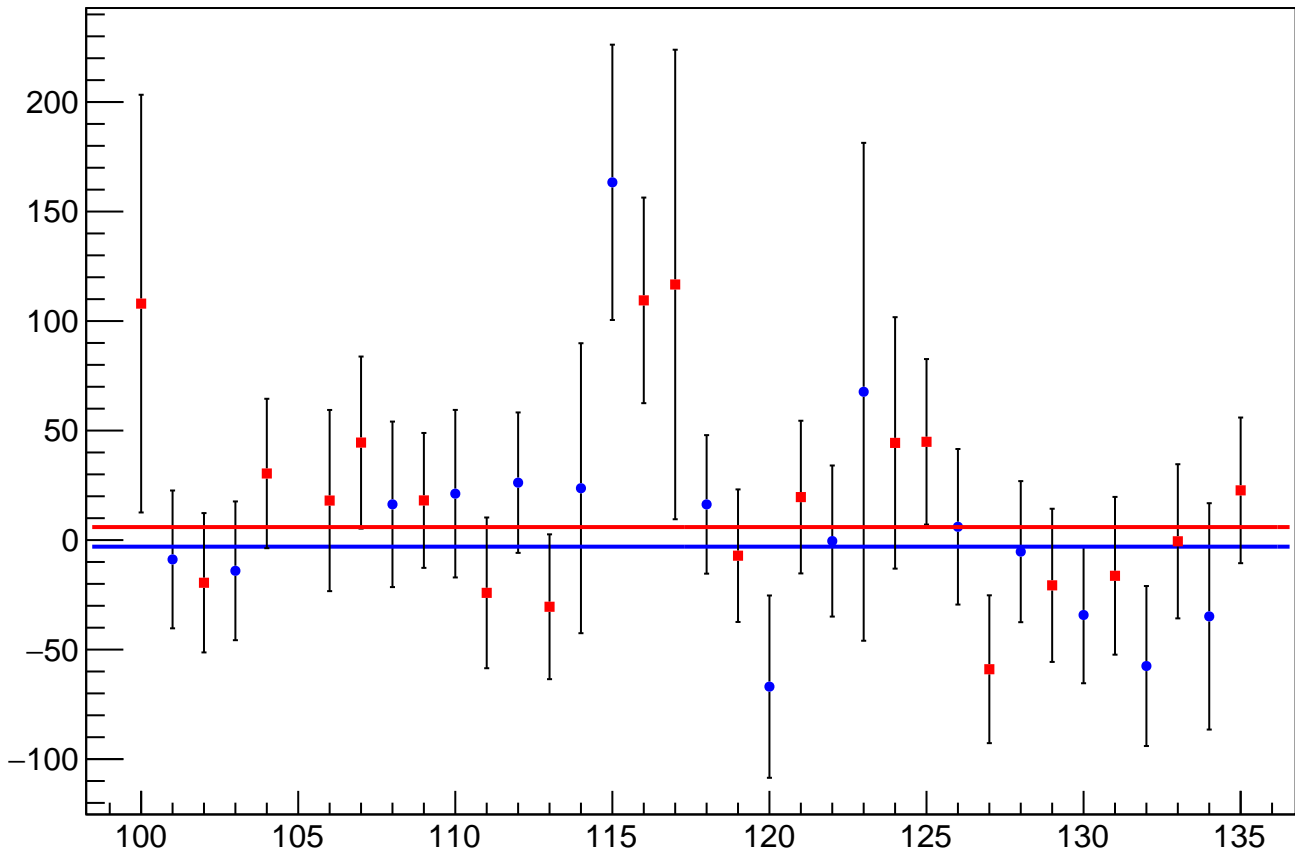
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

195.131+/-0.061  $\chi^2/\text{NDF}$ : 960534.4/15

183.050+/-0.039  $\chi^2/\text{NDF}$ : 2537682.0/34

174.688+/-0.051  $\chi^2/\text{NDF}$ : 1510797.0/18

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In:  $-3.008 \pm 9.428$   $\chi^2/\text{NDF}: 15.6/15$

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

Right Out:  $5.938 \pm 8.561$   $\chi^2/\text{NDF}: 18.2/18$

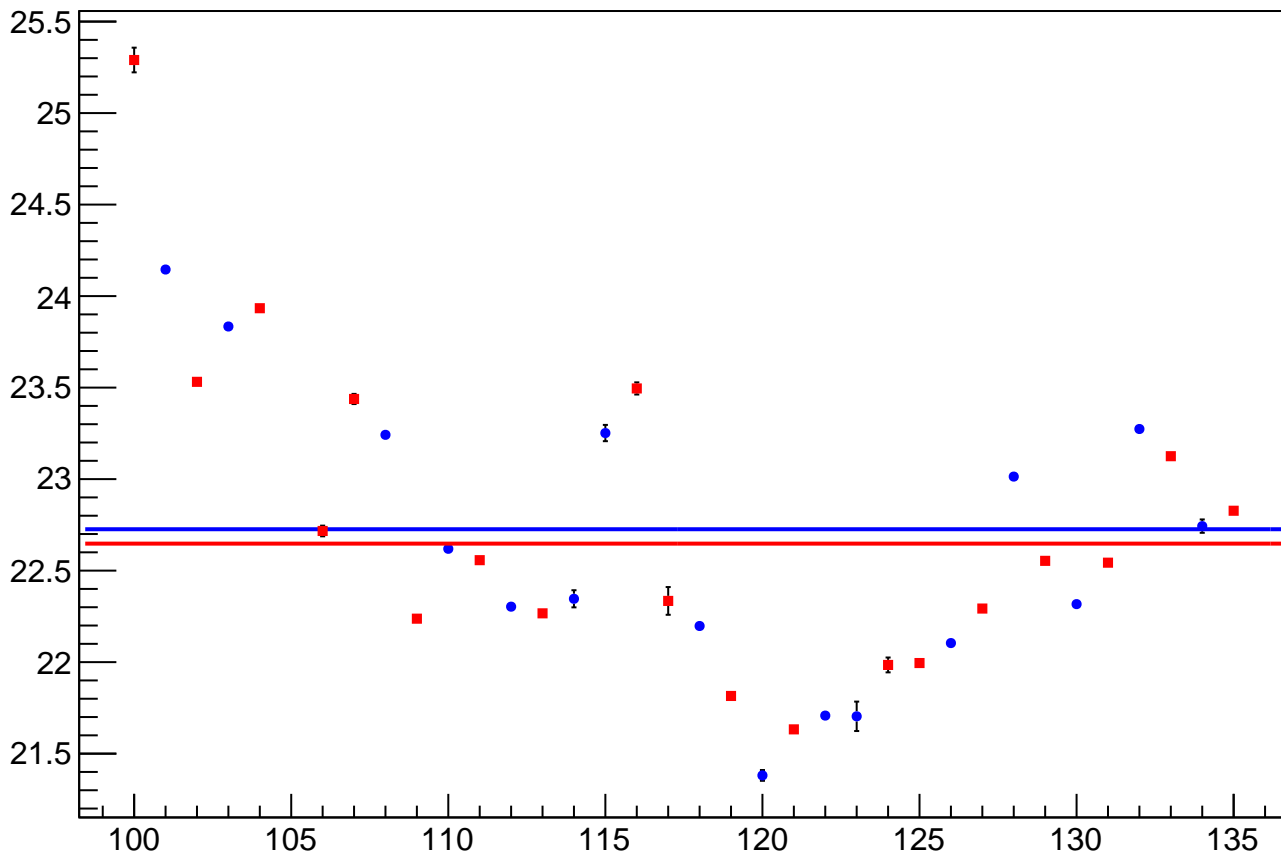
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-3.008 \pm 9.428$   $\chi^2/\text{NDF}: 15.6/15$

$1.895 \pm 6.338$   $\chi^2/\text{NDF}: 34.3/34$

$5.938 \pm 8.561$   $\chi^2/\text{NDF}: 18.2/18$

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 22.726+/-0.007  $\chi^2$ /NDF: 13576.8/15

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

Right Out: 22.648+/-0.006  $\chi^2$ /NDF: 12794.7/18

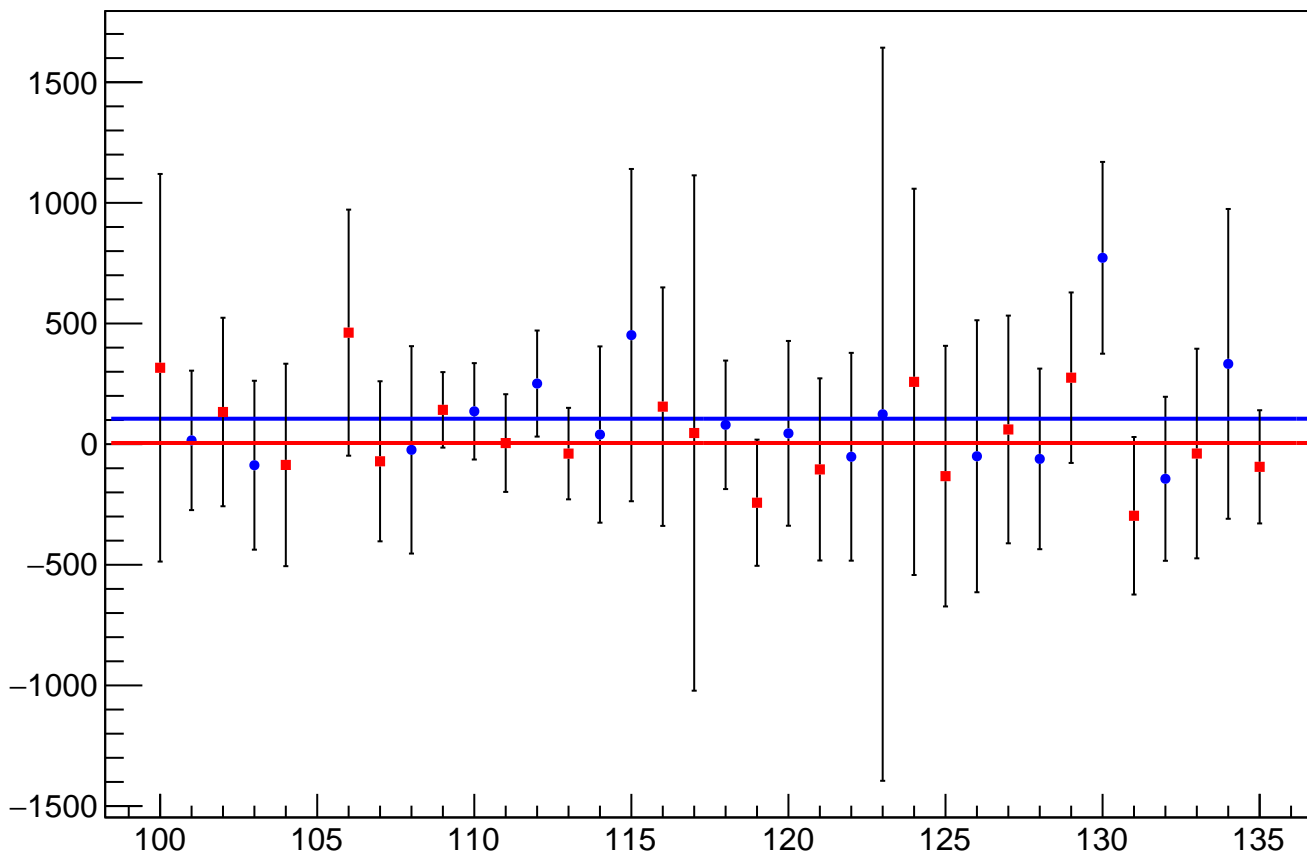
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

22.726+/-0.007  $\chi^2$ /NDF: 13576.8/15

22.683+/-0.004  $\chi^2$ /NDF: 26447.7/34

22.648+/-0.006  $\chi^2$ /NDF: 12794.7/18

# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 105.396+/-85.949  $\chi^2$ /NDF: 5.2/15

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

Right Out: 4.779+/-71.298  $\chi^2$ /NDF: 4.9/18

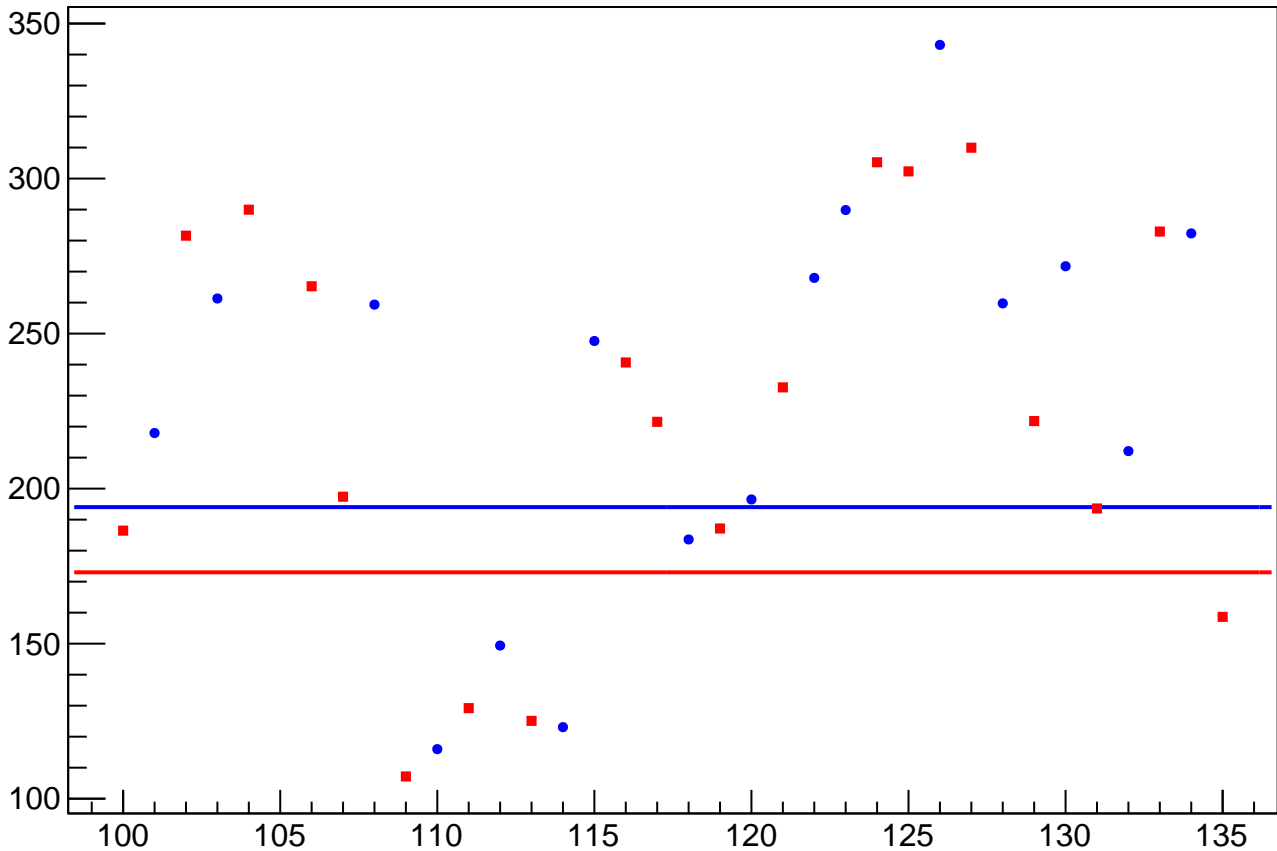
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

105.396+/-85.949  $\chi^2$ /NDF: 5.2/15

45.793+/-54.875  $\chi^2$ /NDF: 10.8/34

4.779+/-71.298  $\chi^2$ /NDF: 4.9/18

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 194.035+/-0.061  $\chi^2$ /NDF: 1000779.7/15

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

Right Out: 173.005+/-0.050  $\chi^2$ /NDF: 1578690.8/18

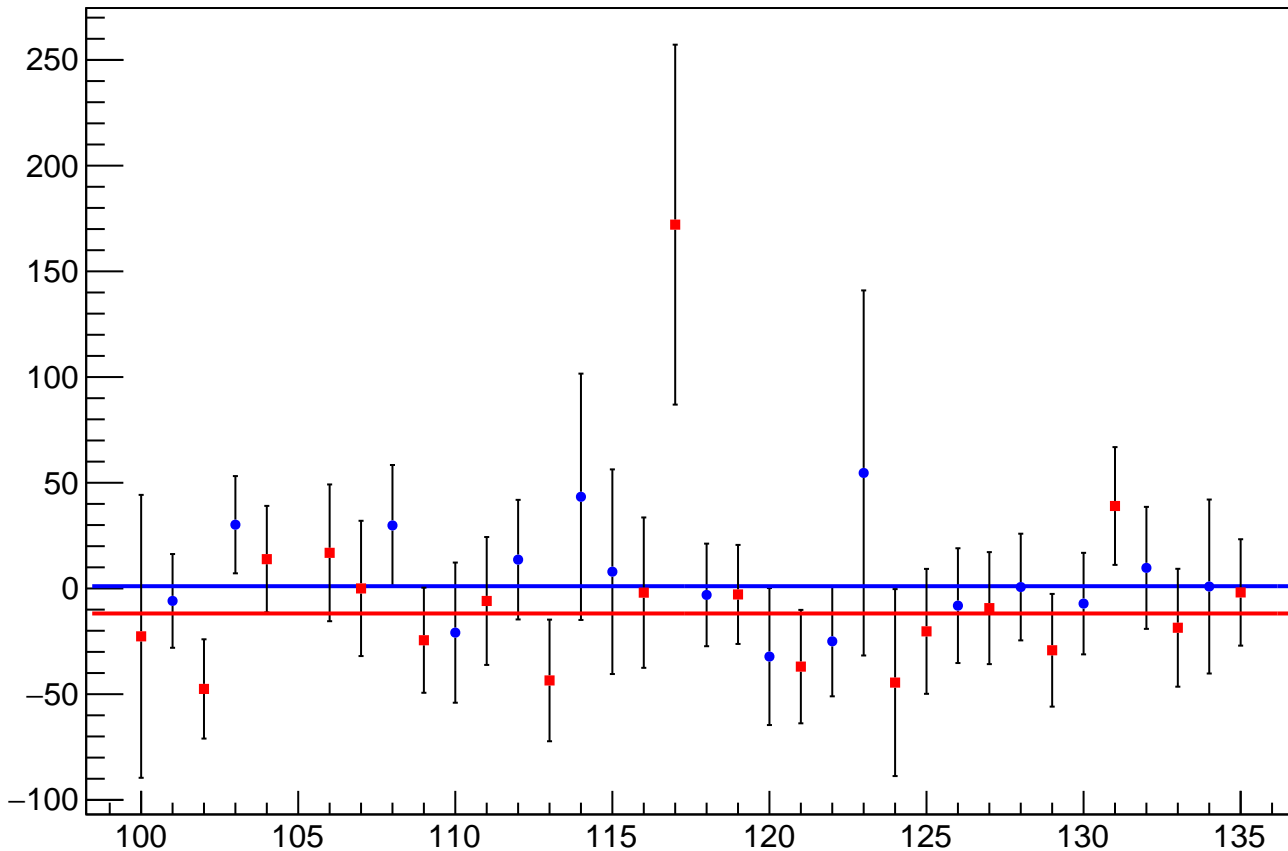
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

194.035+/-0.061  $\chi^2$ /NDF: 1000779.7/15

181.577+/-0.039  $\chi^2$ /NDF: 2650401.9/34

173.005+/-0.050  $\chi^2$ /NDF: 1578690.8/18

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 1.075+/-7.304  $\chi^2$ /NDF: 6.7/15

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

Right Out: -11.828+/-6.704  $\chi^2$ /NDF: 16.2/18

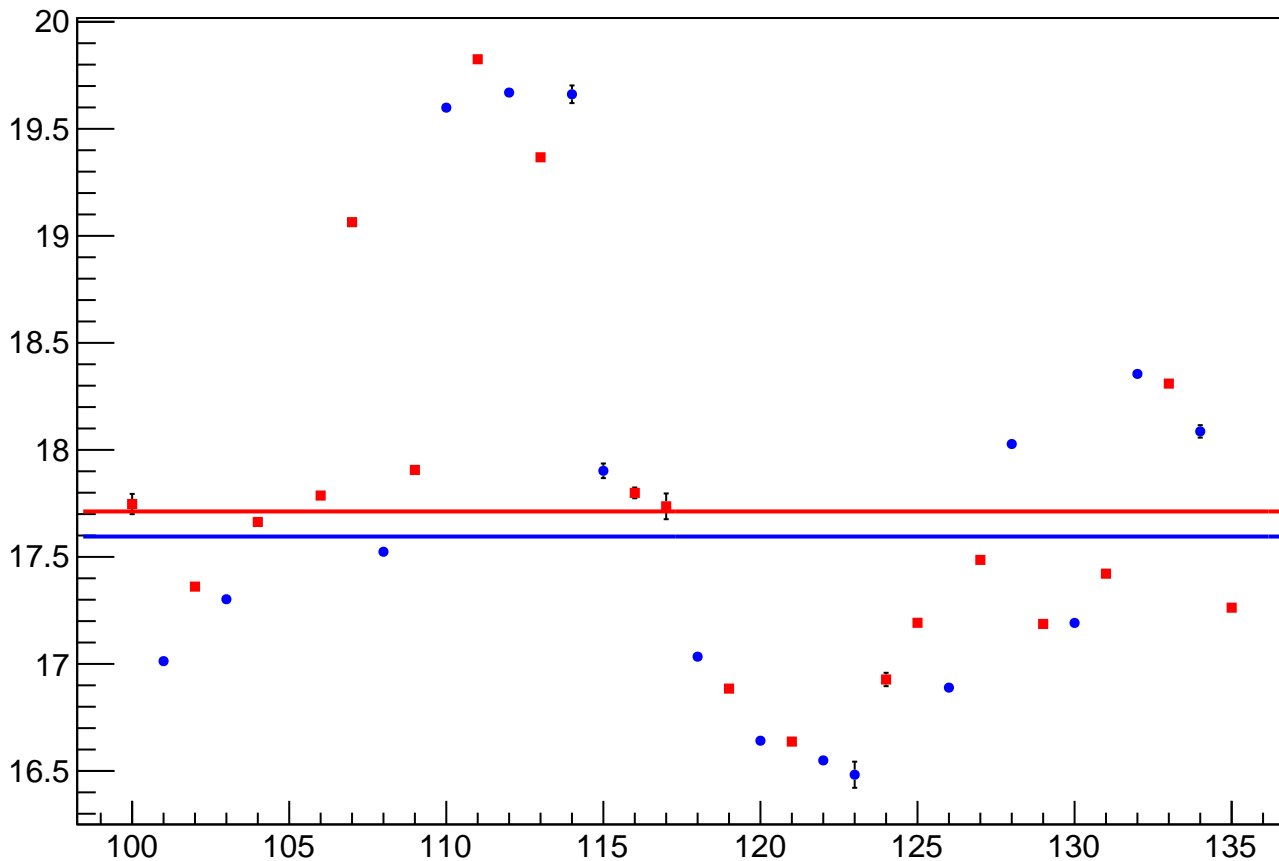
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1.075+/-7.304  $\chi^2$ /NDF: 6.7/15

-5.928+/-4.939  $\chi^2$ /NDF: 24.6/34

-11.828+/-6.704  $\chi^2$ /NDF: 16.2/18

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 17.595+/-0.005  $\chi^2$ /NDF: 32922.5/15

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

Right Out: 17.712+/-0.005  $\chi^2$ /NDF: 30203.4/18

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

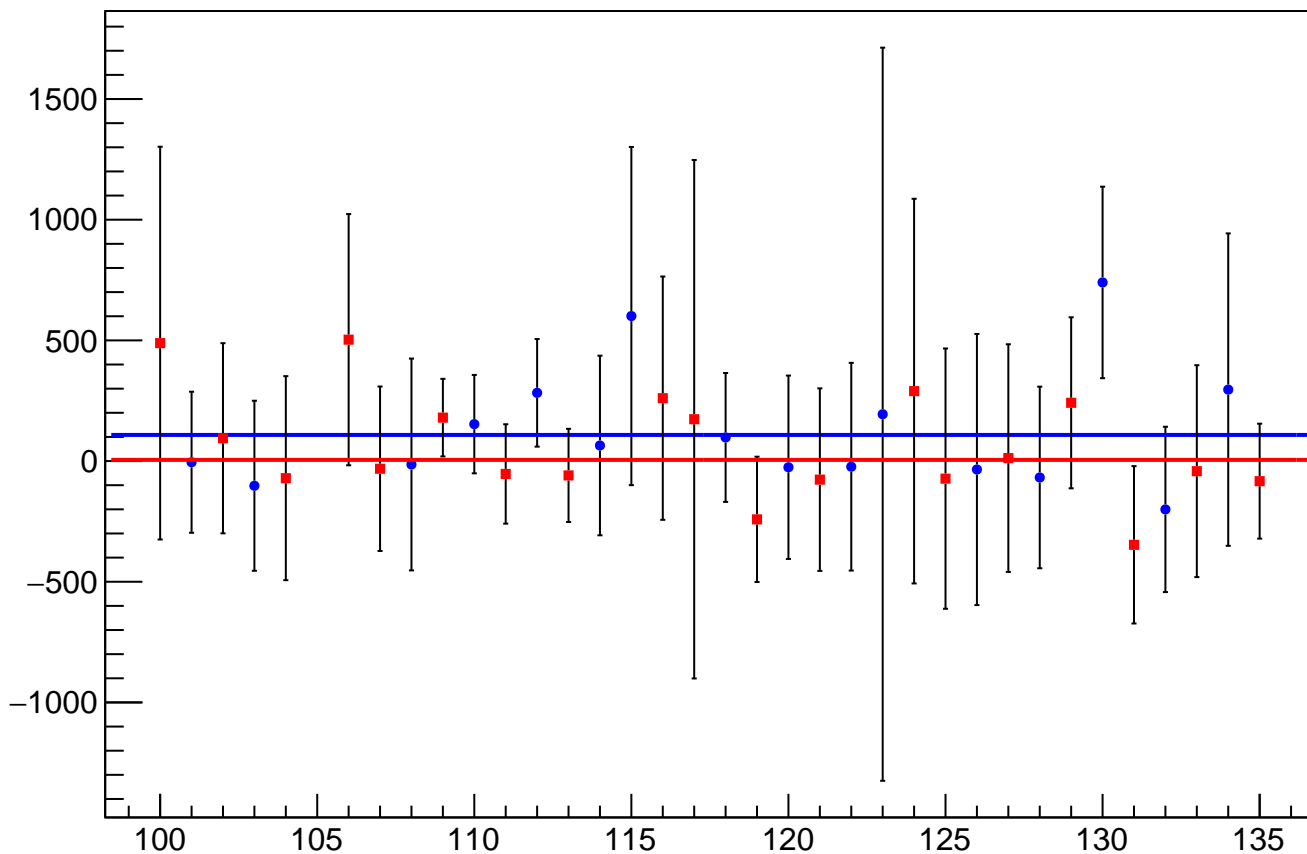
17.595+/-0.005  $\chi^2$ /NDF: 32922.5/15

17.659+/-0.003  $\chi^2$ /NDF: 63405.8/34

17.712+/-0.005  $\chi^2$ /NDF: 30203.4/18



asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 108.277 $\pm$ 86.812  $\chi^2$ /NDF: 5.7/15

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

Right Out: 4.890 $\pm$ 72.297  $\chi^2$ /NDF: 5.9/18

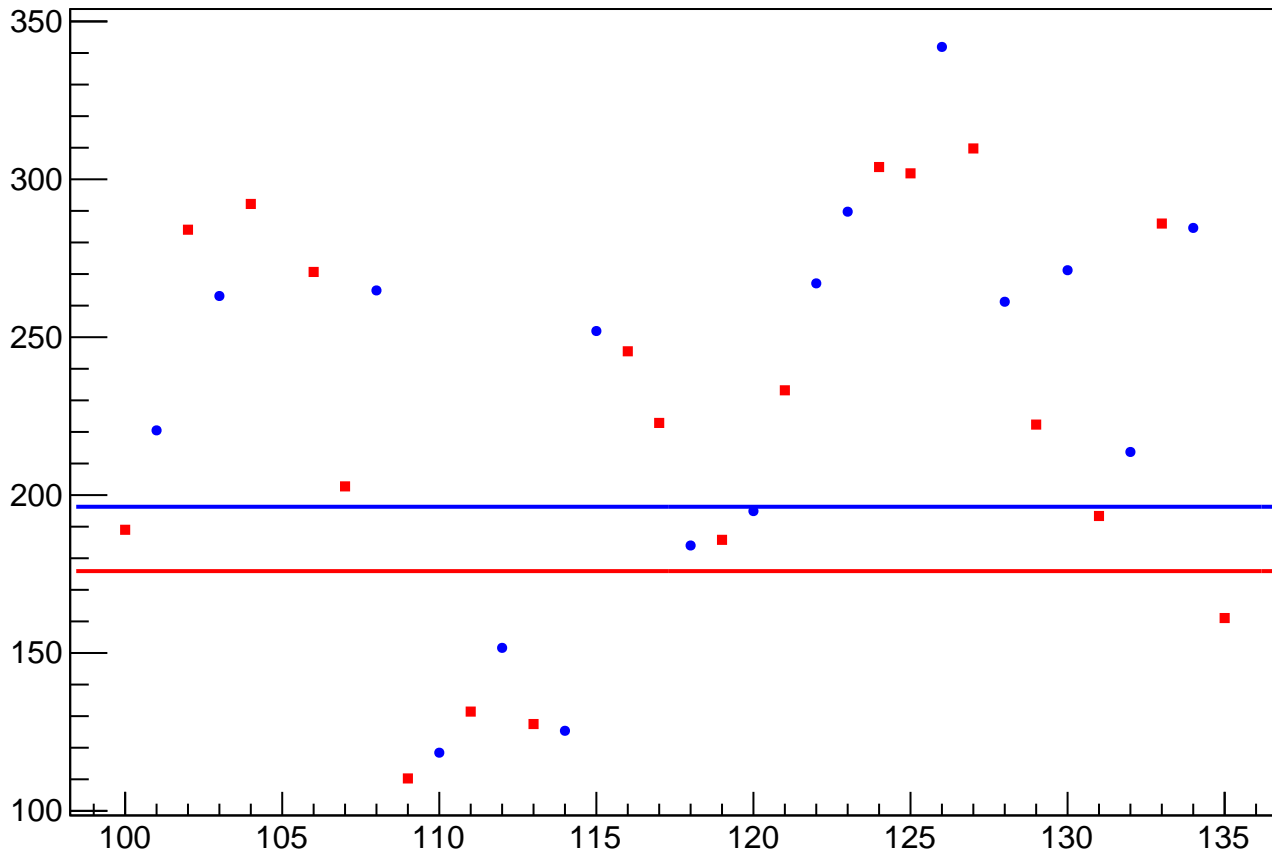
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

108.277 $\pm$ 86.812  $\chi^2$ /NDF: 5.7/15

47.231 $\pm$ 55.555  $\chi^2$ /NDF: 12.4/34

4.890 $\pm$ 72.297  $\chi^2$ /NDF: 5.9/18

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 196.308+/-0.061  $\chi^2/\text{NDF}$ : 965378.3/15

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

Right Out: 175.928+/-0.051  $\chi^2/\text{NDF}$ : 1520108.1/18

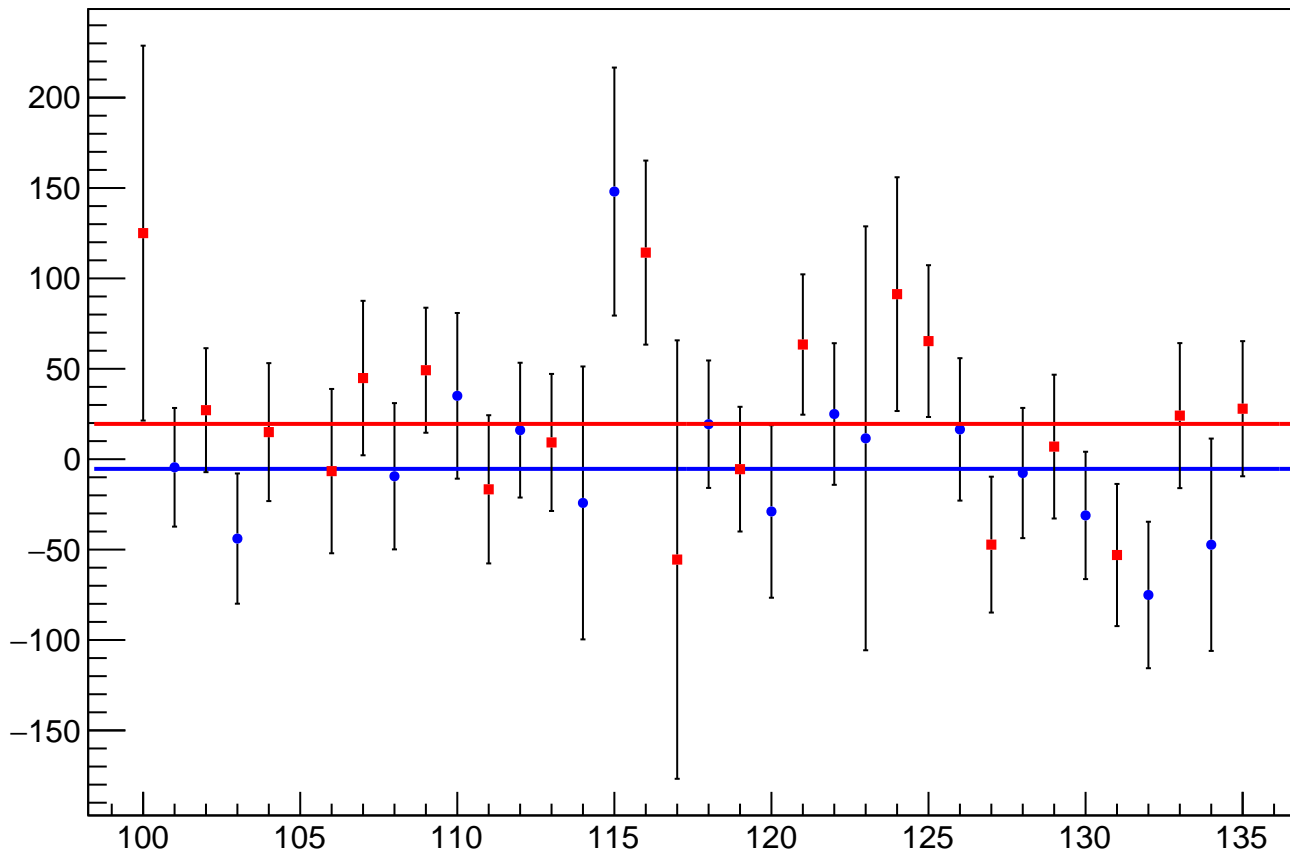
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

196.308+/-0.061  $\chi^2/\text{NDF}$ : 965378.3/15

184.275+/-0.039  $\chi^2/\text{NDF}$ : 2550572.4/34

175.928+/-0.051  $\chi^2/\text{NDF}$ : 1520108.1/18

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -5.353+/-10.550  $\chi^2$ /NDF: 13.0/15

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

Right Out: 19.523+/-9.587  $\chi^2$ /NDF: 18.2/18

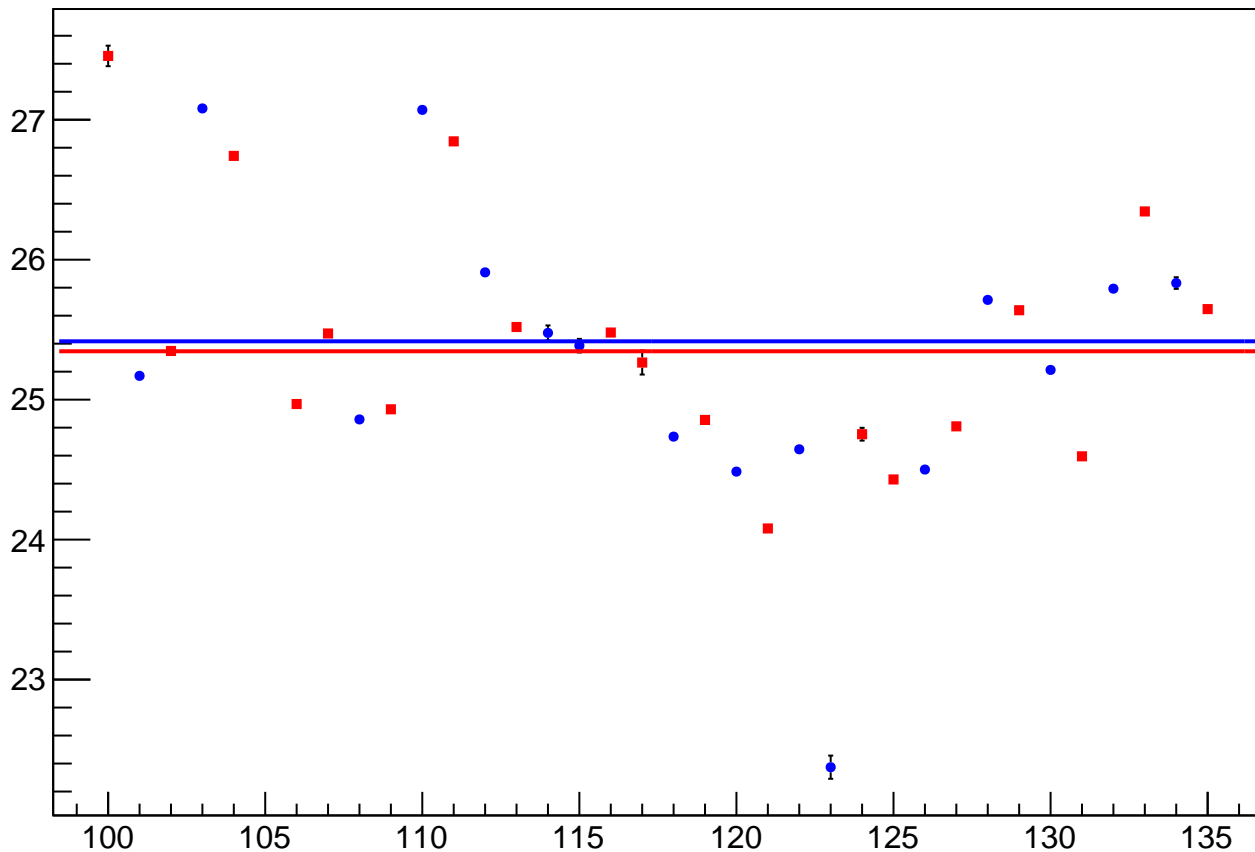
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-5.353+/-10.550  $\chi^2$ /NDF: 13.0/15

8.272+/-7.095  $\chi^2$ /NDF: 34.2/34

19.523+/-9.587  $\chi^2$ /NDF: 18.2/18

# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 25.417+/-0.007  $\chi^2$ /NDF: 12907.2/15

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

Right Out: 25.346+/-0.007  $\chi^2$ /NDF: 12950.9/18

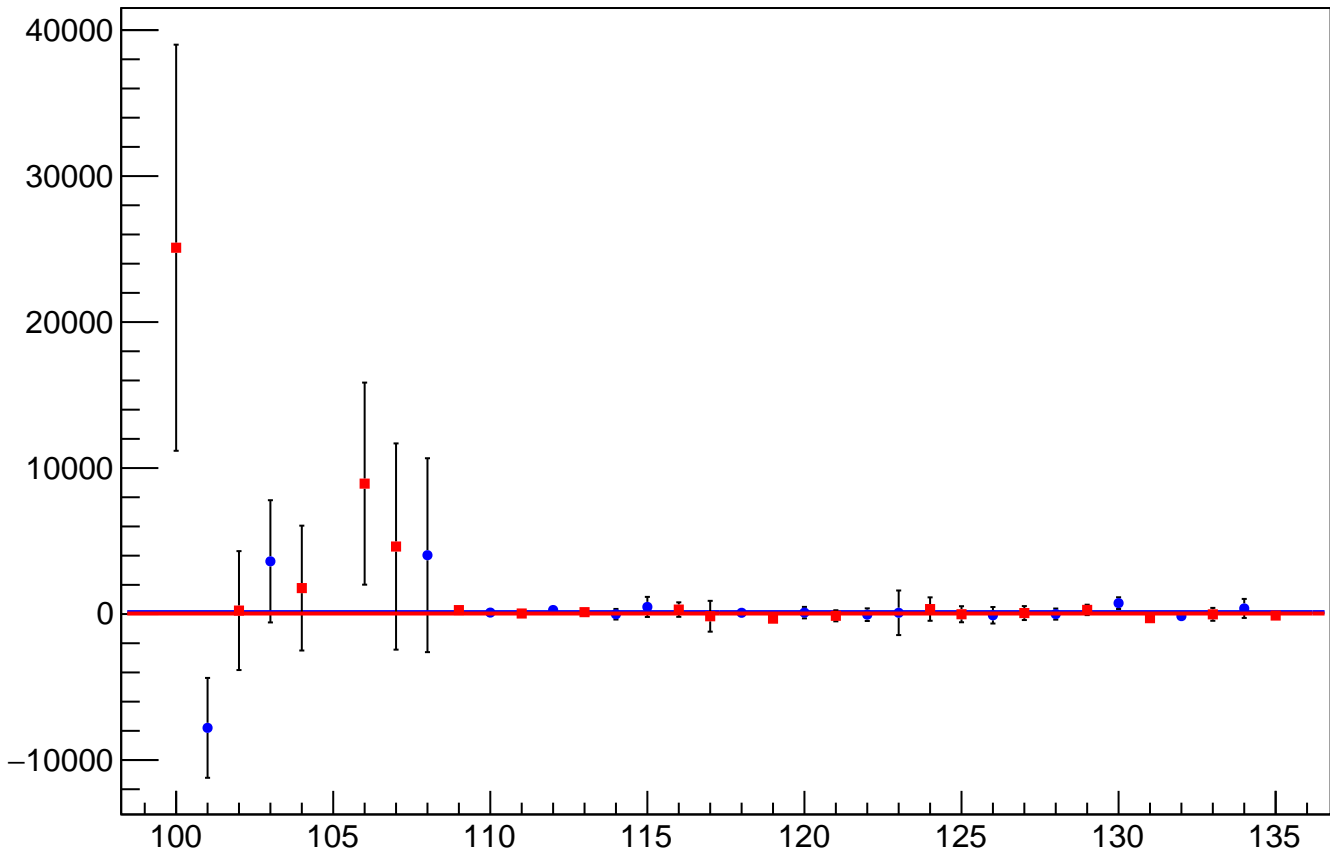
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

25.417+/-0.007  $\chi^2$ /NDF: 12907.2/15

25.378+/-0.005  $\chi^2$ /NDF: 25908.1/34

25.346+/-0.007  $\chi^2$ /NDF: 12950.9/18

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 133.476+/-96.003  $\chi^2$ /NDF: 10.9/15

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

Right Out: 36.191+/-82.016  $\chi^2$ /NDF: 11.0/18

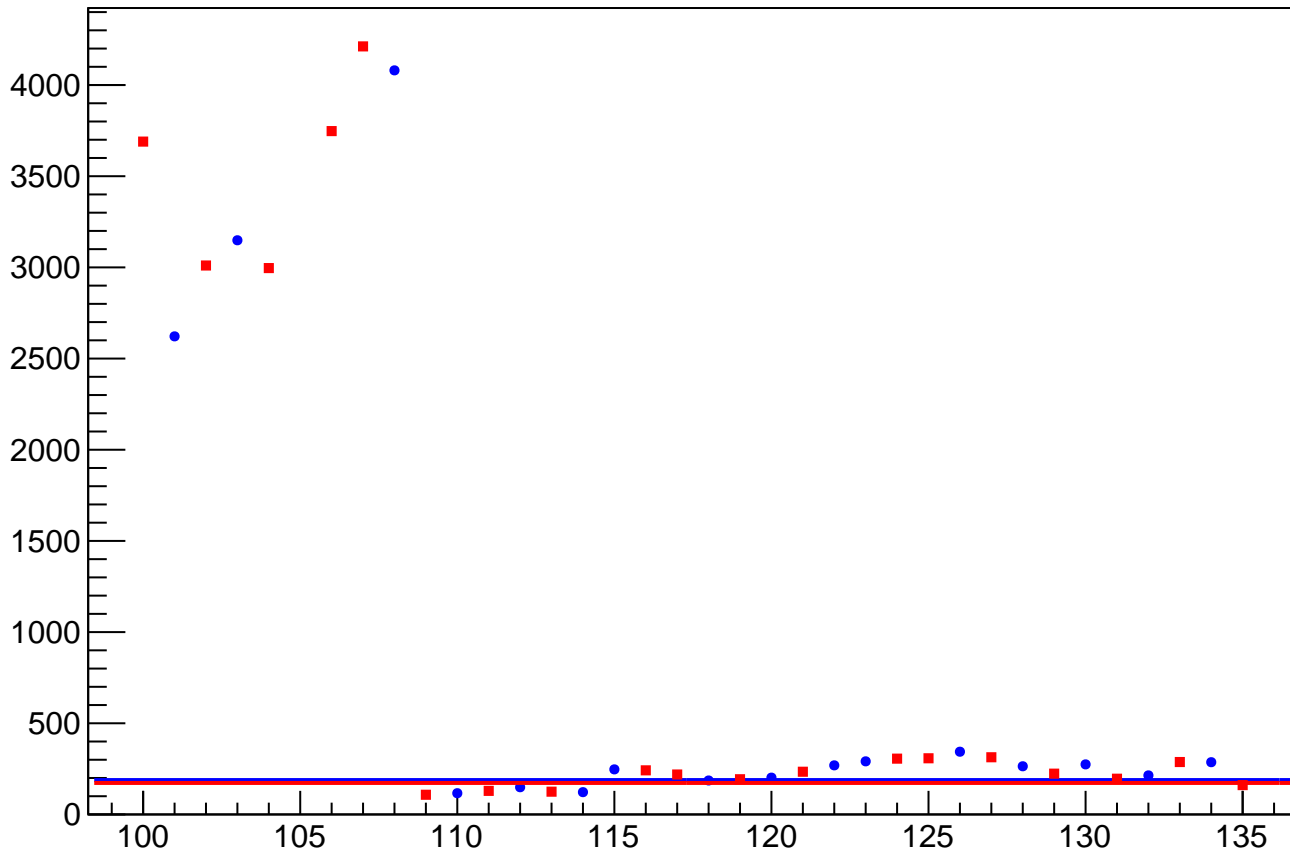
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

133.476+/-96.003  $\chi^2$ /NDF: 10.9/15

77.237+/-62.359  $\chi^2$ /NDF: 22.5/34

36.191+/-82.016  $\chi^2$ /NDF: 11.0/18

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 188.604+/-0.068  $\chi^2$ /NDF: 3561340.6/15

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

Right Out: 172.803+/-0.058  $\chi^2$ /NDF: 4205689.1/18

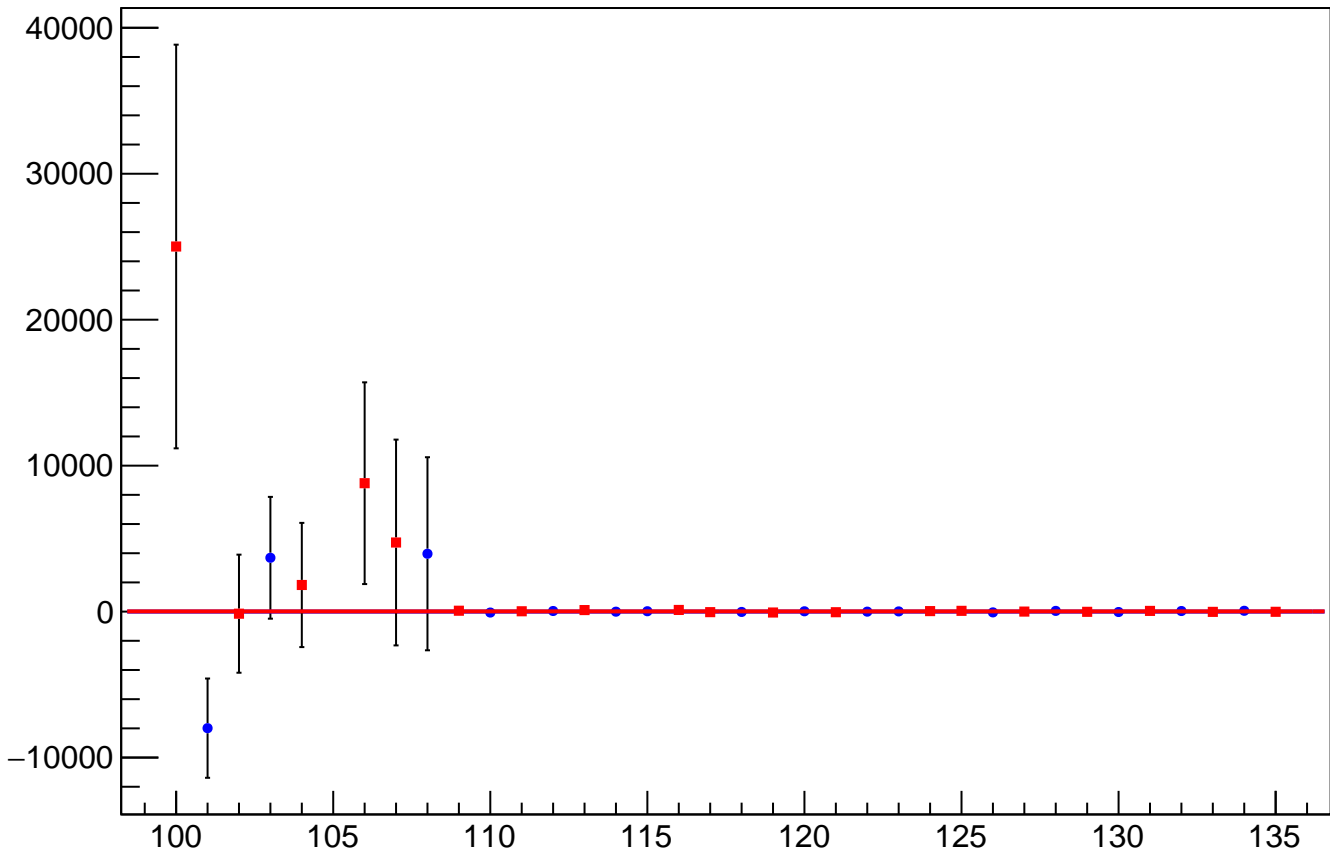
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

188.604+/-0.068  $\chi^2$ /NDF: 3561340.6/15

179.470+/-0.044  $\chi^2$ /NDF: 7798351.7/34

172.803+/-0.058  $\chi^2$ /NDF: 4205689.1/18

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 1.343+/-13.374  $\chi^2$ /NDF: 15.5/15

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

Right Out: 15.863+/-12.411  $\chi^2$ /NDF: 22.6/18

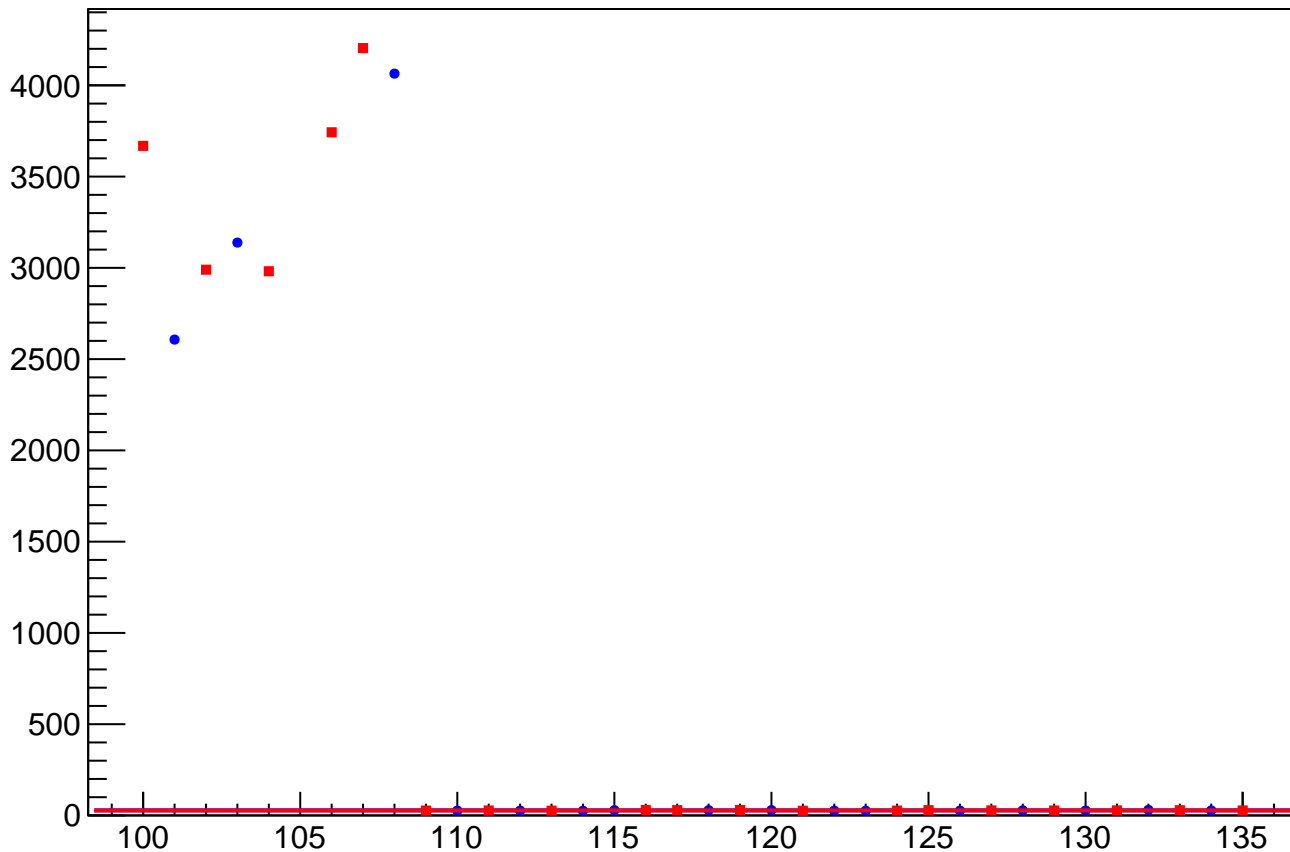
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1.343+/-13.374  $\chi^2$ /NDF: 15.5/15

9.144+/-9.097  $\chi^2$ /NDF: 38.8/34

15.863+/-12.411  $\chi^2$ /NDF: 22.6/18

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 27.730+/-0.009  $\chi^2$ /NDF: 3026553.3/15

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

Right Out: 27.699+/-0.009  $\chi^2$ /NDF: 3477108.4/18

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

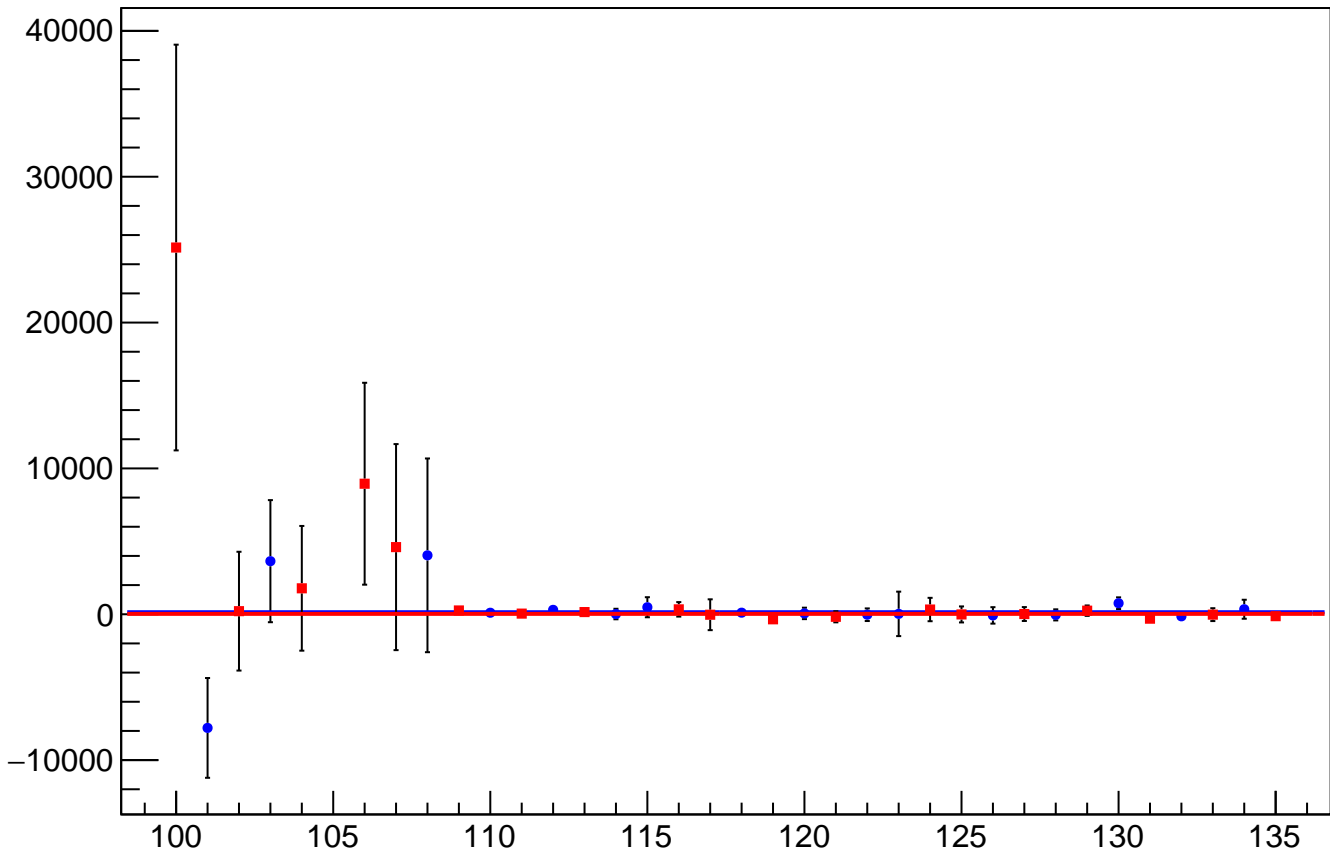
27.730+/-0.009  $\chi^2$ /NDF: 3026553.3/15

27.713+/-0.006  $\chi^2$ /NDF: 6503667.3/34

27.699+/-0.009  $\chi^2$ /NDF: 3477108.4/18



asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 138.994+/-95.695  $\chi^2$ /NDF: 11.1/15

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

Right Out: 27.313+/-81.752  $\chi^2$ /NDF: 11.7/18

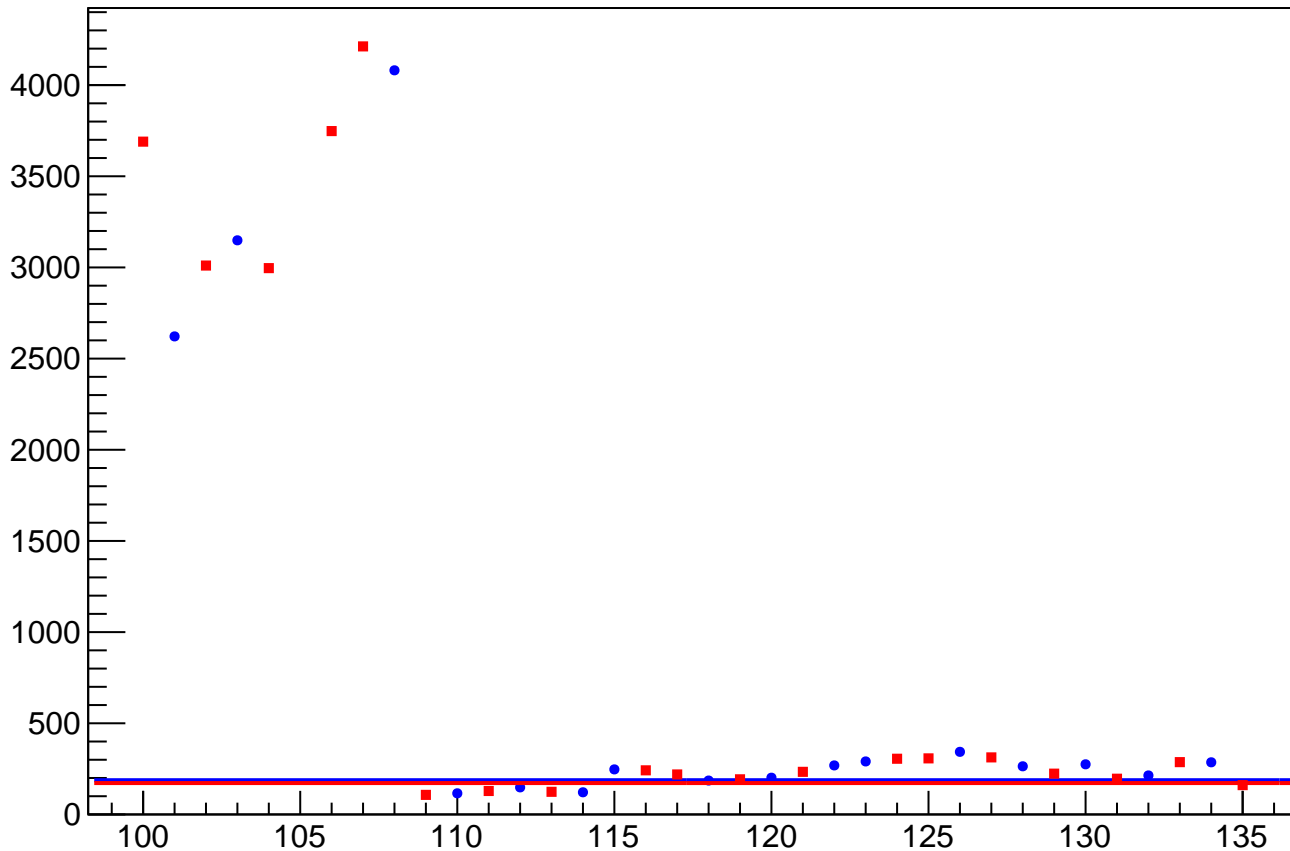
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

138.994+/-95.695  $\chi^2$ /NDF: 11.1/15

74.432+/-62.158  $\chi^2$ /NDF: 23.6/34

27.313+/-81.752  $\chi^2$ /NDF: 11.7/18

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 187.867+/-0.068  $\chi^2$ /NDF: 3572890.8/15

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

Right Out: 172.135+/-0.058  $\chi^2$ /NDF: 4216958.2/18

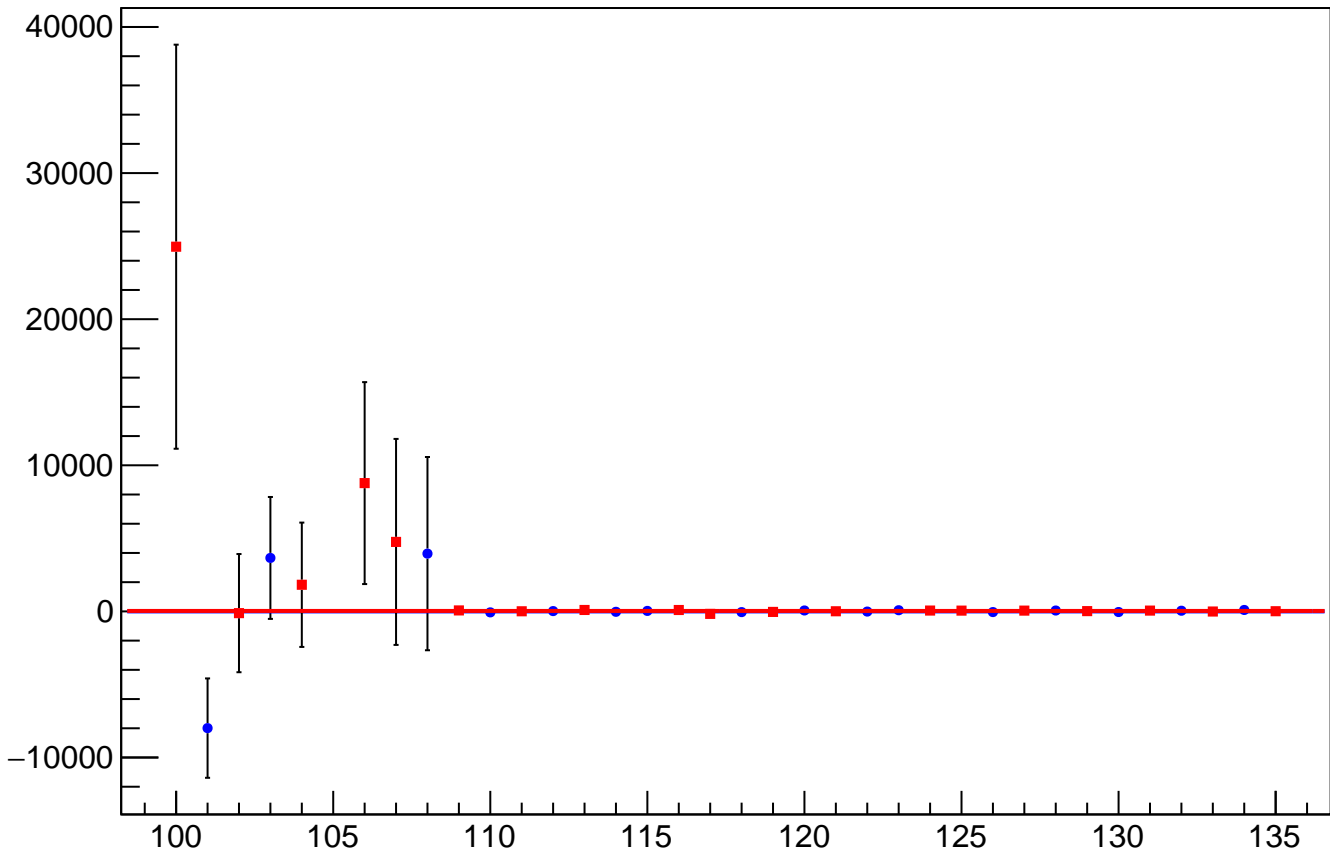
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

187.867+/-0.068  $\chi^2$ /NDF: 3572890.8/15

178.772+/-0.044  $\chi^2$ /NDF: 7821096.8/34

172.135+/-0.058  $\chi^2$ /NDF: 4216958.2/18

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -0.304+/-13.466  $\chi^2$ /NDF: 20.4/15

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

Right Out: 31.092+/-12.515  $\chi^2$ /NDF: 17.0/18

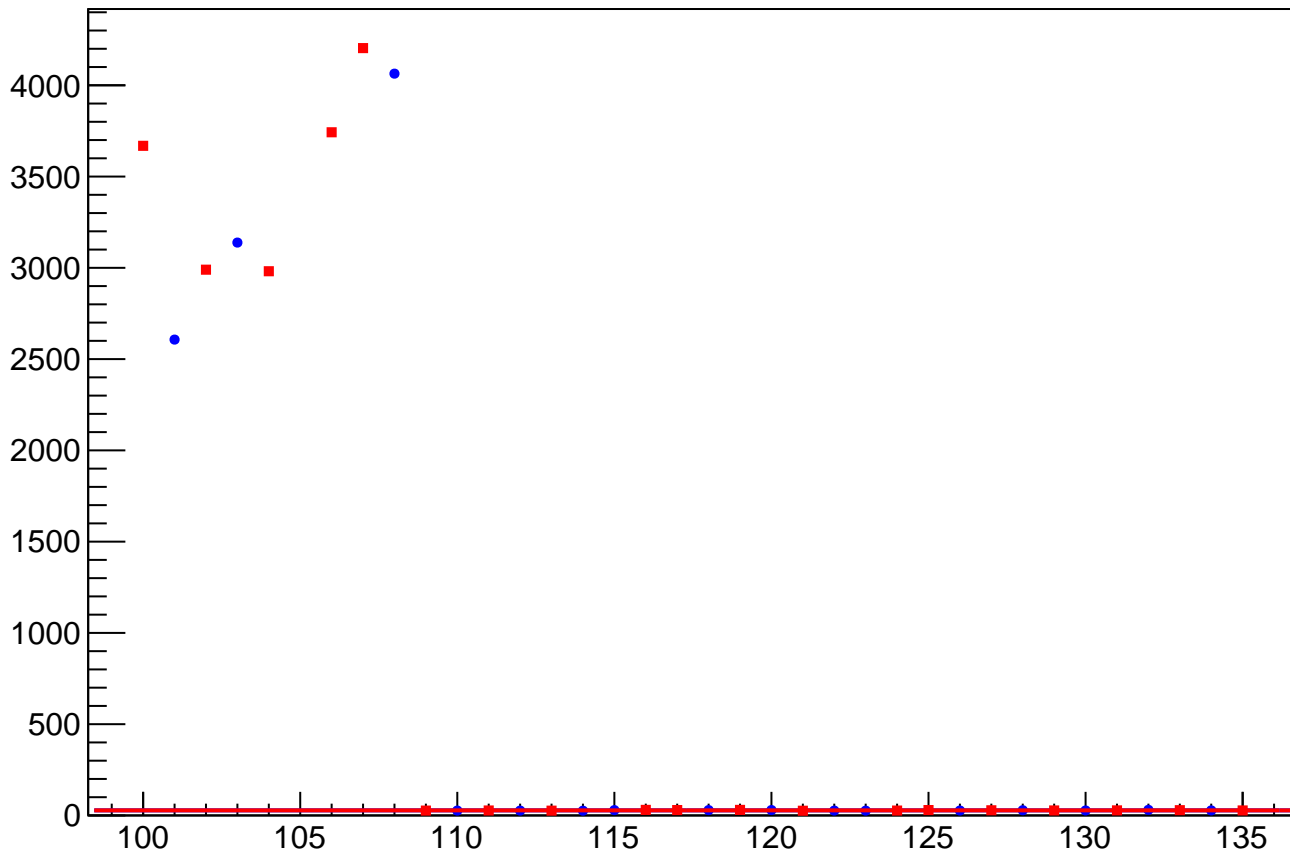
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.304+/-13.466  $\chi^2$ /NDF: 20.4/15

16.543+/-9.167  $\chi^2$ /NDF: 40.3/34

31.092+/-12.515  $\chi^2$ /NDF: 17.0/18

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 27.918+/-0.010  $\chi^2$ /NDF: 3026783.0/15

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

Right Out: 27.924+/-0.009  $\chi^2$ /NDF: 3479936.0/18

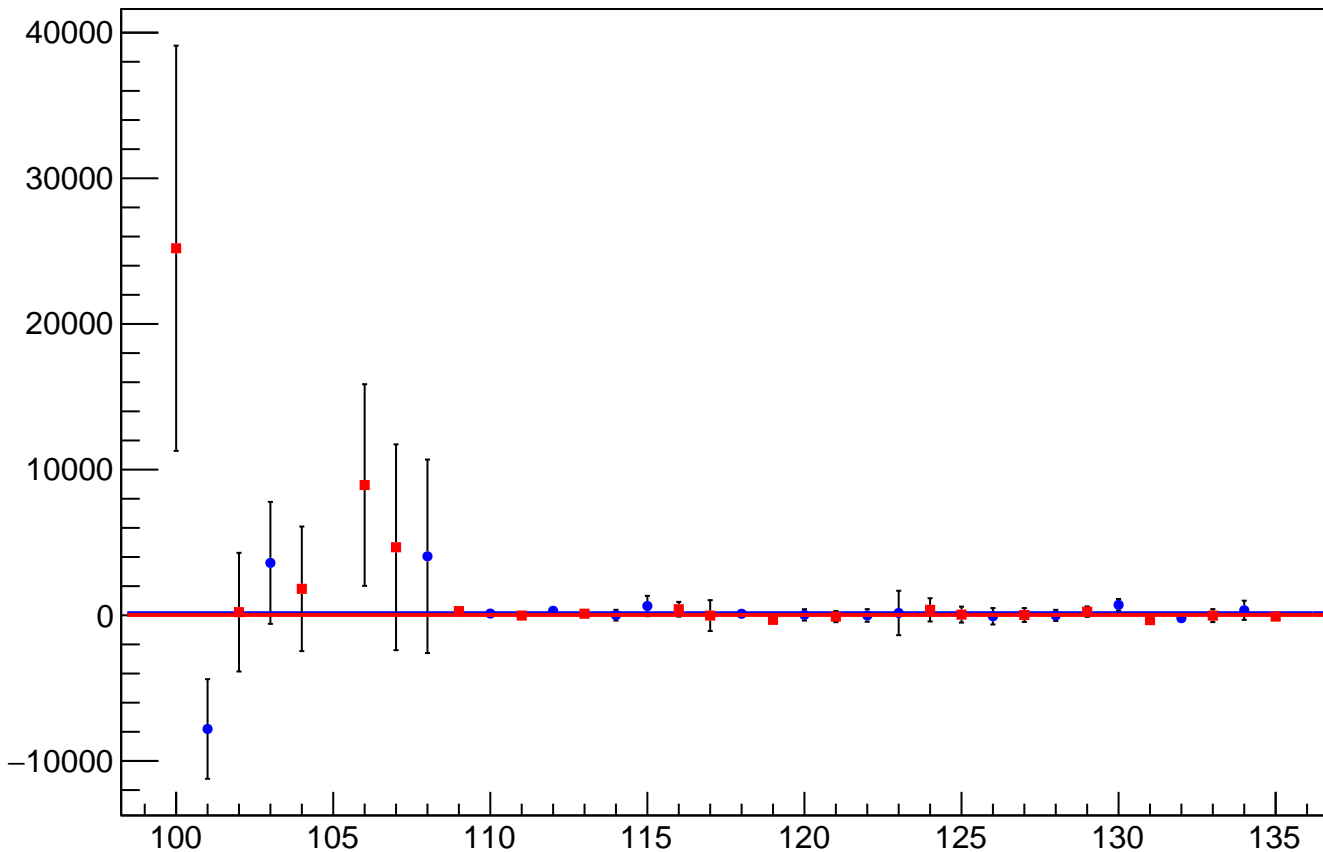
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

27.918+/-0.010  $\chi^2$ /NDF: 3026783.0/15

27.921+/-0.006  $\chi^2$ /NDF: 6506719.2/34

27.924+/-0.009  $\chi^2$ /NDF: 3479936.0/18

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 139.860+/-96.813  $\chi^2$ /NDF: 11.3/15

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

Right Out: 24.538+/-82.843  $\chi^2$ /NDF: 11.5/18

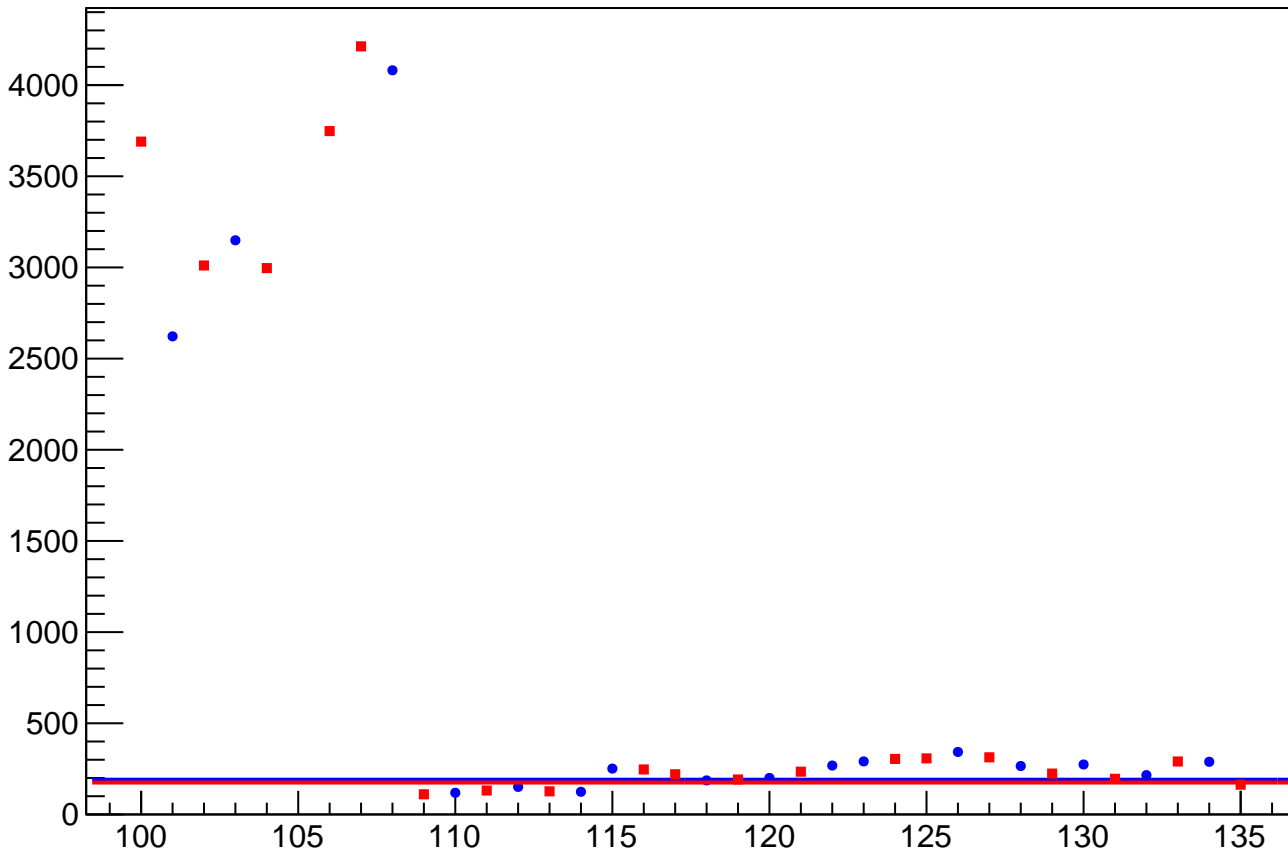
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

139.860+/-96.813  $\chi^2$ /NDF: 11.3/15

73.286+/-62.944  $\chi^2$ /NDF: 23.6/34

24.538+/-82.843  $\chi^2$ /NDF: 11.5/18

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 190.609+/-0.068  $\chi^2$ /NDF: 3525006.5/15

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

Right Out: 175.010+/-0.059  $\chi^2$ /NDF: 4163709.3/18

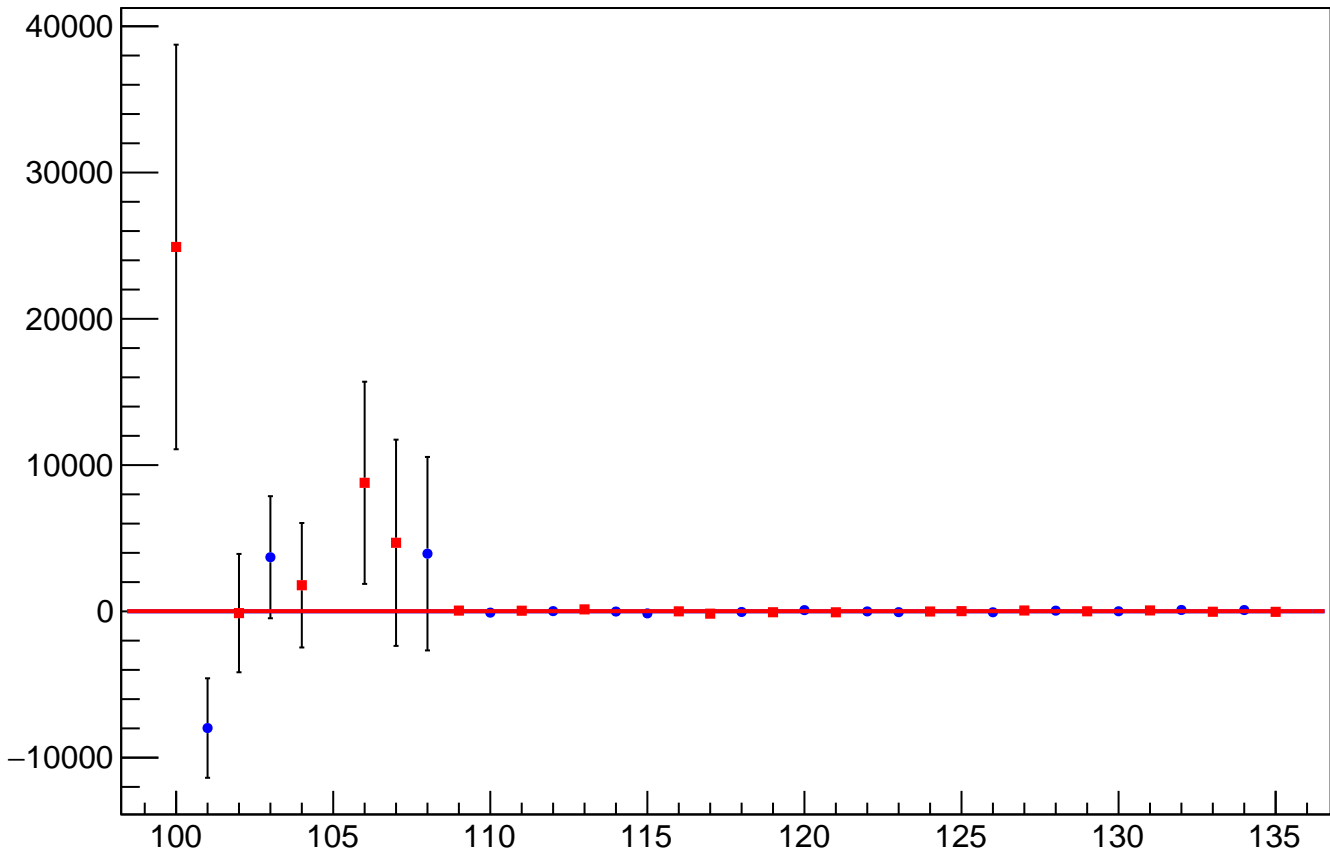
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

190.609+/-0.068  $\chi^2$ /NDF: 3525006.5/15

181.604+/-0.045  $\chi^2$ /NDF: 7718691.5/34

175.010+/-0.059  $\chi^2$ /NDF: 4163709.3/18

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 2.245+/-16.397  $\chi^2$ /NDF: 20.2/15

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

Right Out: 14.320+/-15.158  $\chi^2$ /NDF: 21.4/18

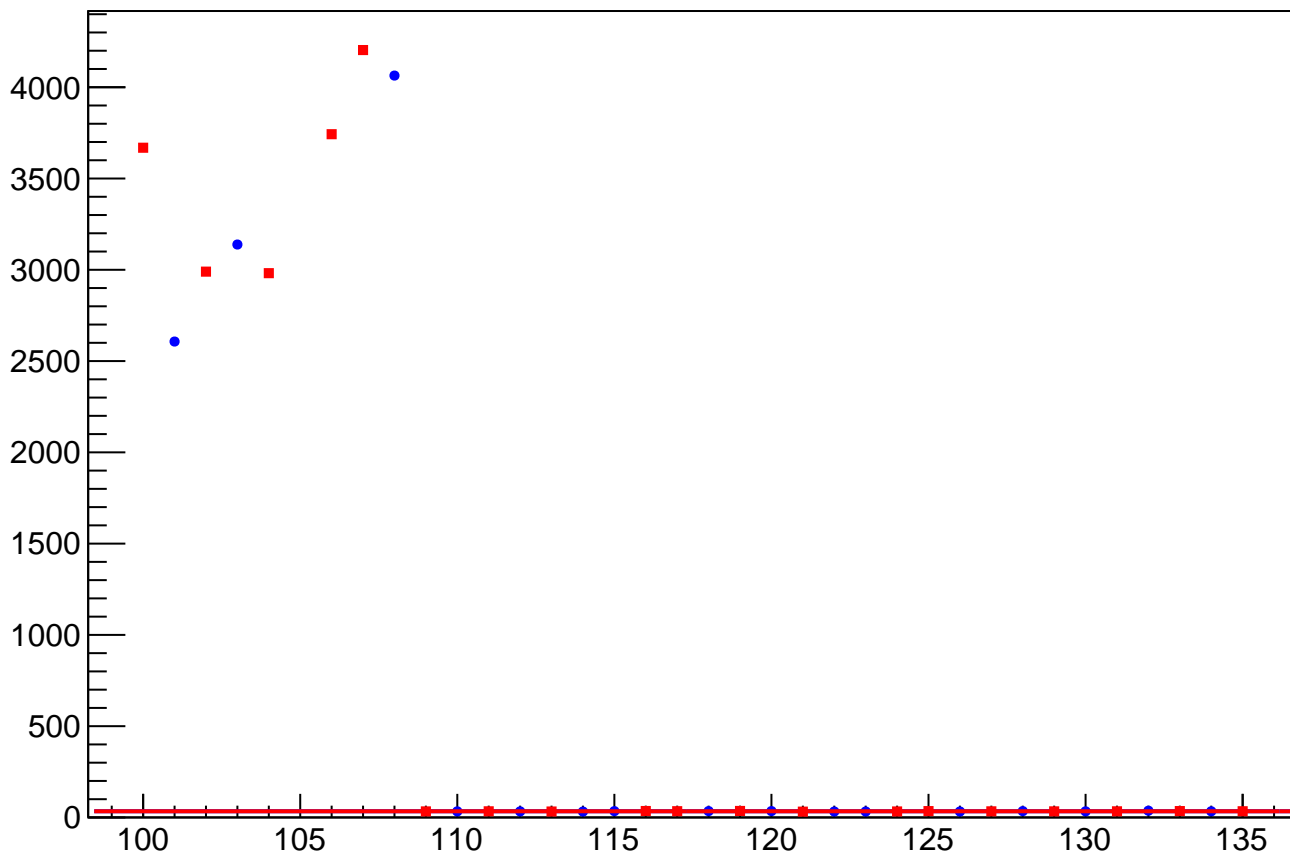
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2.245+/-16.397  $\chi^2$ /NDF: 20.2/15

8.756+/-11.131  $\chi^2$ /NDF: 41.9/34

14.320+/-15.158  $\chi^2$ /NDF: 21.4/18

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 34.028+/-0.012  $\chi^2$ /NDF: 3005598.1/15

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

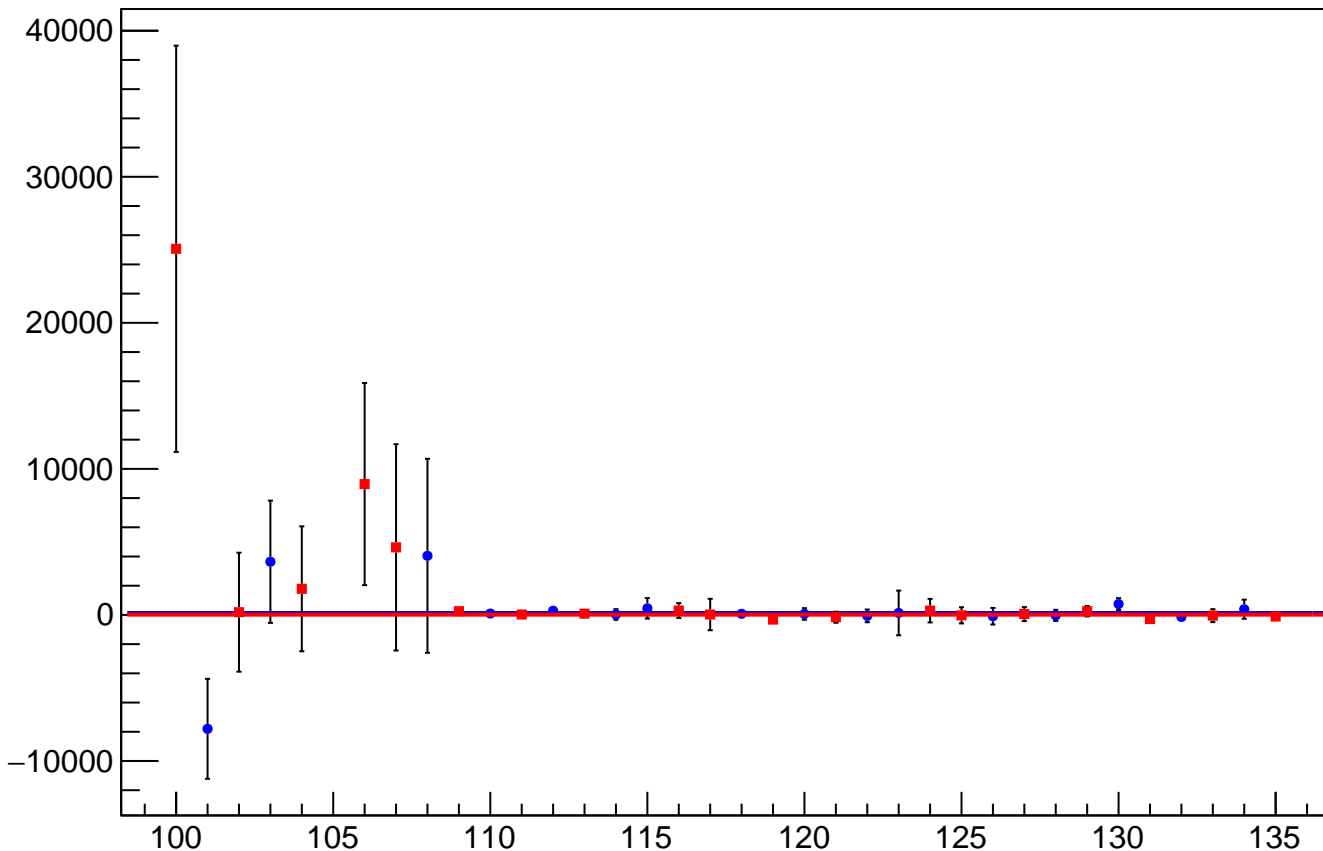
34.028+/-0.012  $\chi^2$ /NDF: 3005598.1/15

33.954+/-0.008  $\chi^2$ /NDF: 6457427.6/34

33.890+/-0.011  $\chi^2$ /NDF: 3451752.1/18



asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 131.664+/-96.357  $\chi^2$ /NDF: 11.0/15

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

Right Out: 19.478+/-82.338  $\chi^2$ /NDF: 10.5/18

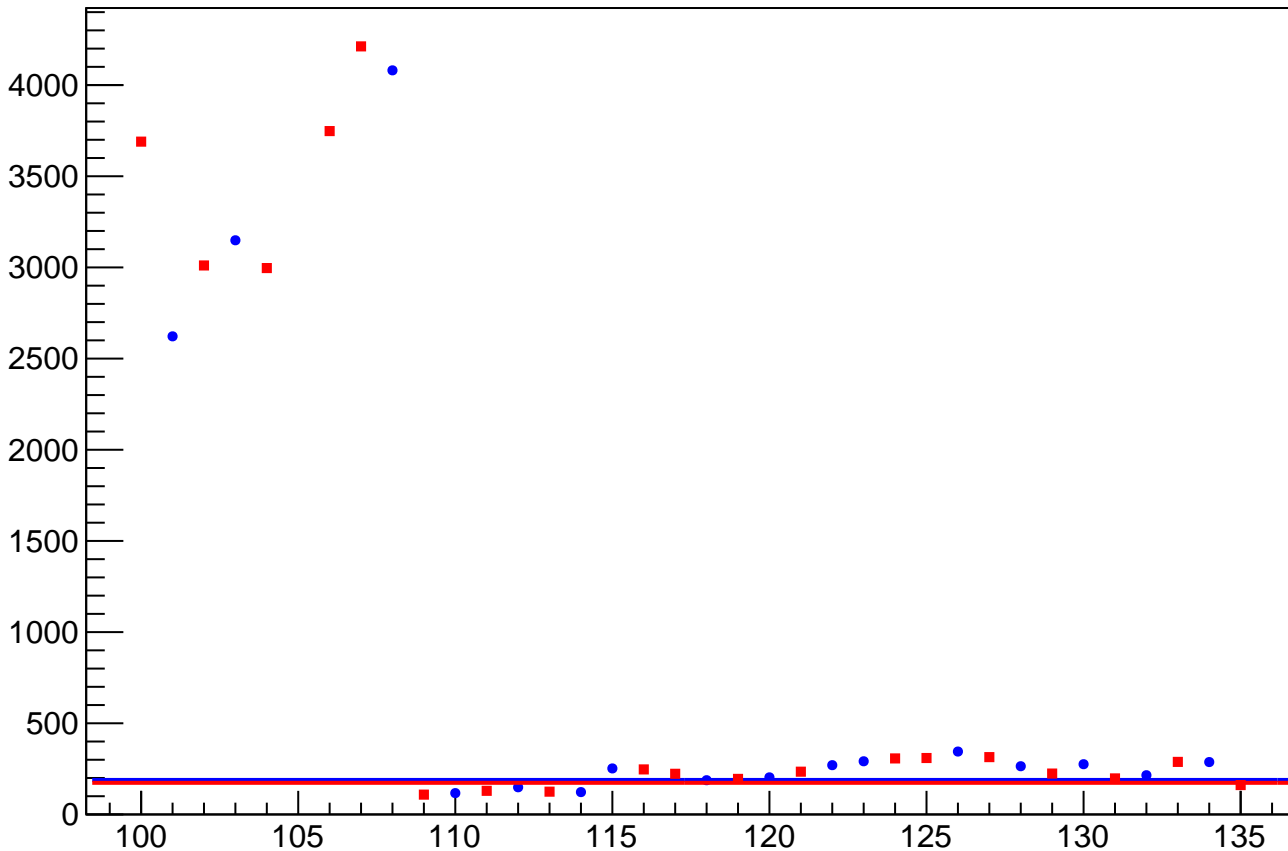
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

131.664+/-96.357  $\chi^2$ /NDF: 11.0/15

66.823+/-62.597  $\chi^2$ /NDF: 22.3/34

19.478+/-82.338  $\chi^2$ /NDF: 10.5/18

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 189.297 $\pm$ 0.068  $\chi^2$ /NDF: 3562844.7/15

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

Right Out: 173.480 $\pm$ 0.058  $\chi^2$ /NDF: 4210378.3/18

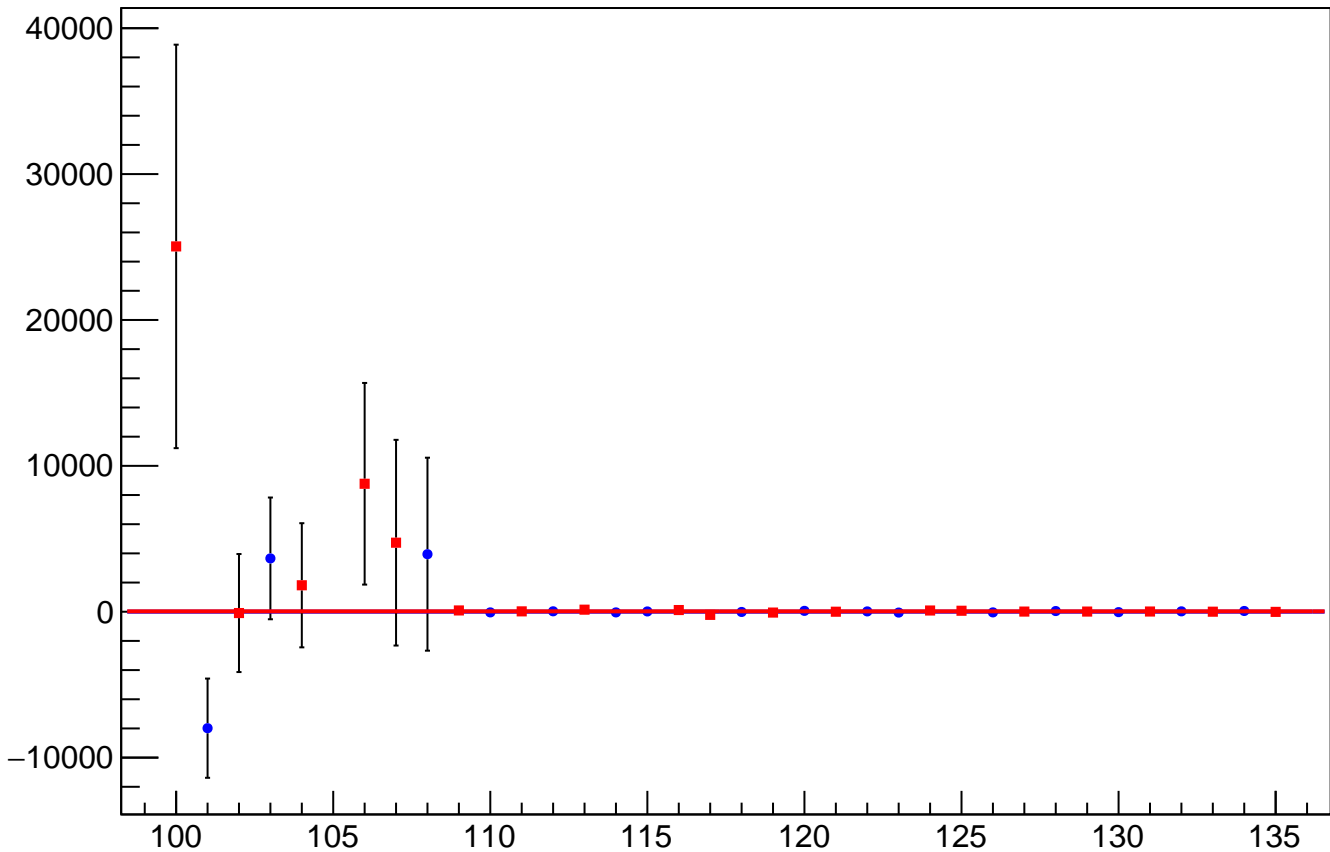
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

189.297 $\pm$ 0.068  $\chi^2$ /NDF: 3562844.7/15

180.155 $\pm$ 0.044  $\chi^2$ /NDF: 7804371.8/34

173.480 $\pm$ 0.058  $\chi^2$ /NDF: 4210378.3/18

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 4.536+/-14.956  $\chi^2$ /NDF: 12.7/15

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

Right Out: 27.649+/-13.860  $\chi^2$ /NDF: 23.6/18

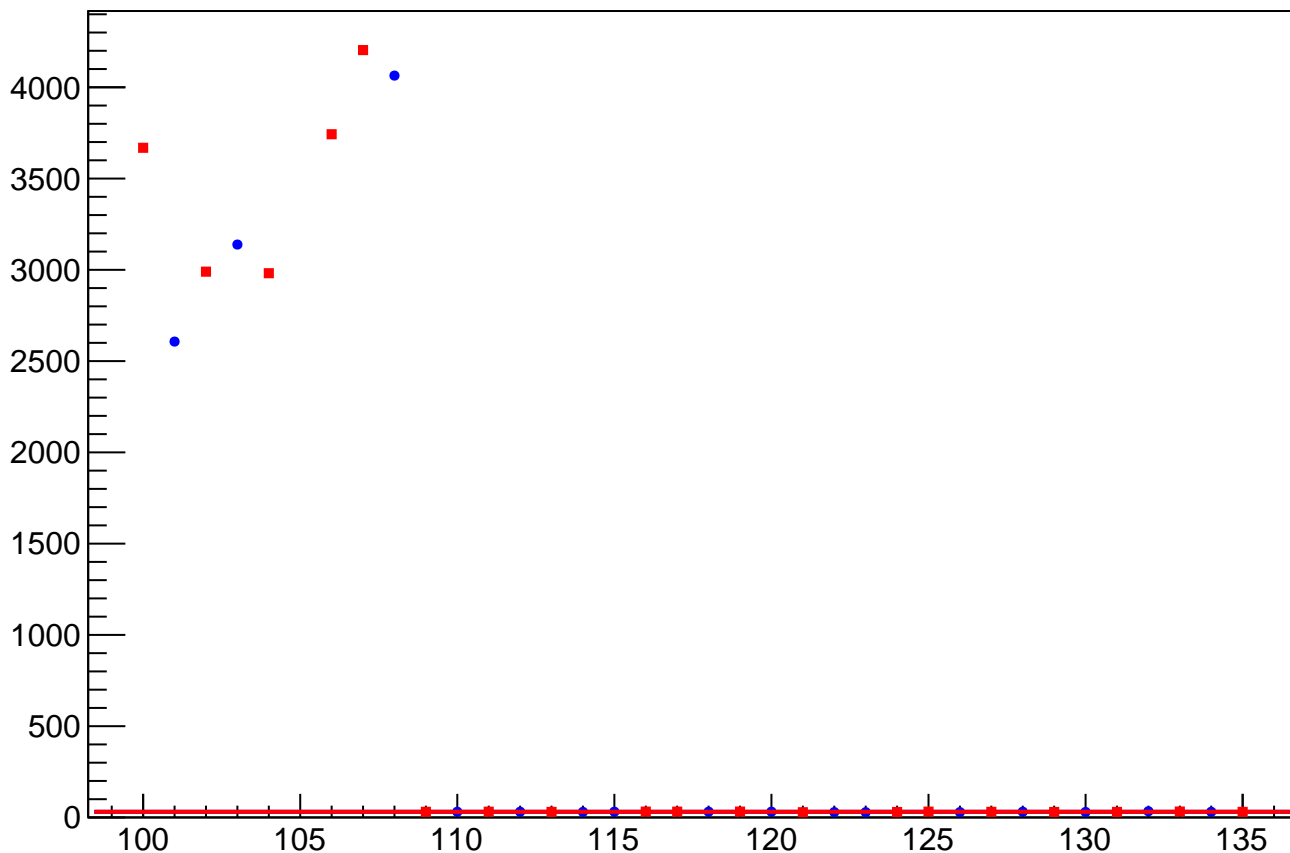
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

4.536+/-14.956  $\chi^2$ /NDF: 12.7/15

16.970+/-10.166  $\chi^2$ /NDF: 37.6/34

27.649+/-13.860  $\chi^2$ /NDF: 23.6/18

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 31.042 $\pm$ 0.011  $\chi^2$ /NDF: 3013813.5/15

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

Right Out: 30.969 $\pm$ 0.010  $\chi^2$ /NDF: 3458997.9/18

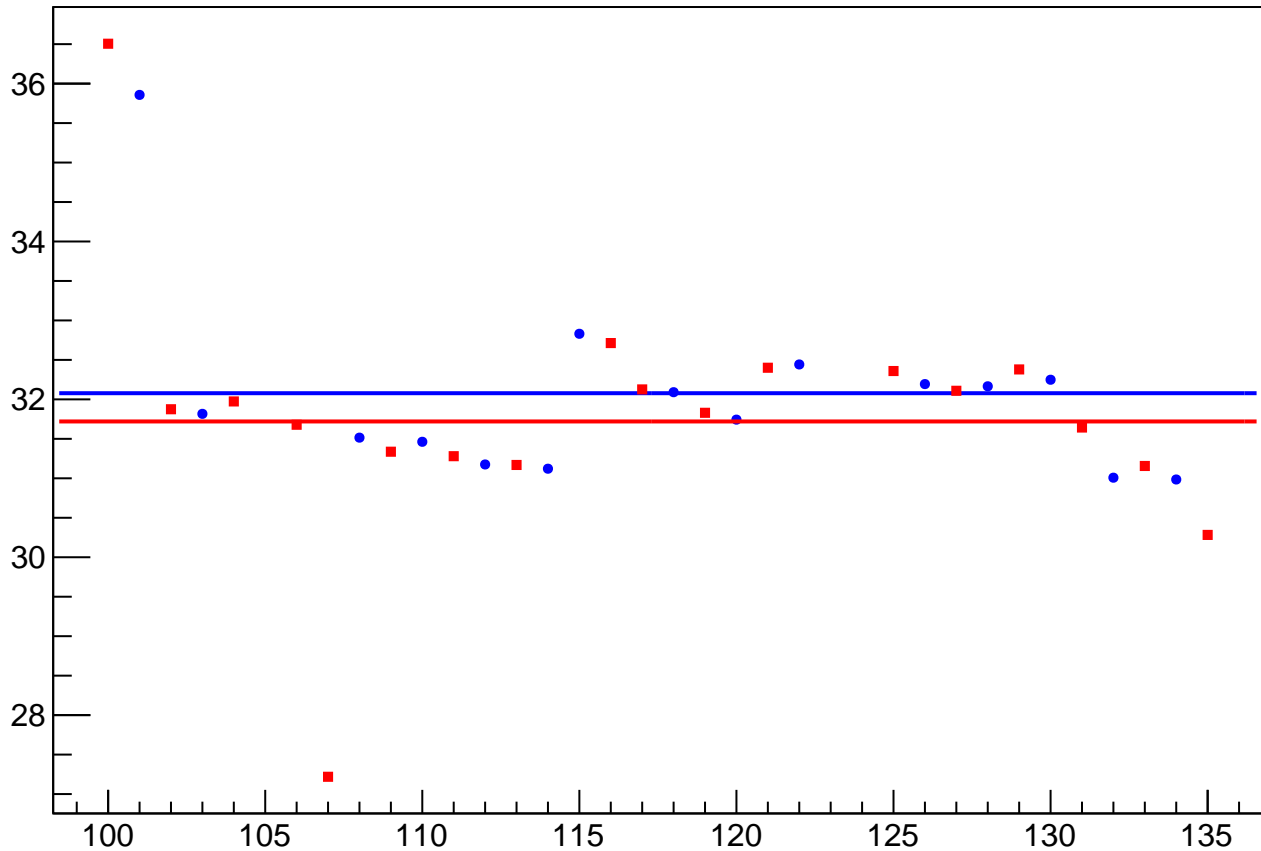
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

31.042 $\pm$ 0.011  $\chi^2$ /NDF: 3013813.5/15

31.002 $\pm$ 0.007  $\chi^2$ /NDF: 6472836.9/34

30.969 $\pm$ 0.010  $\chi^2$ /NDF: 3458997.9/18

# yield\_usl\_mean vs Slug, Sign Corrected



Right In: 32.078+/-0.000  $\chi^2$ /NDF: 1121255335.8/14

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

Right Out: 31.720+/-0.000  $\chi^2$ /NDF: 835767951.2/17

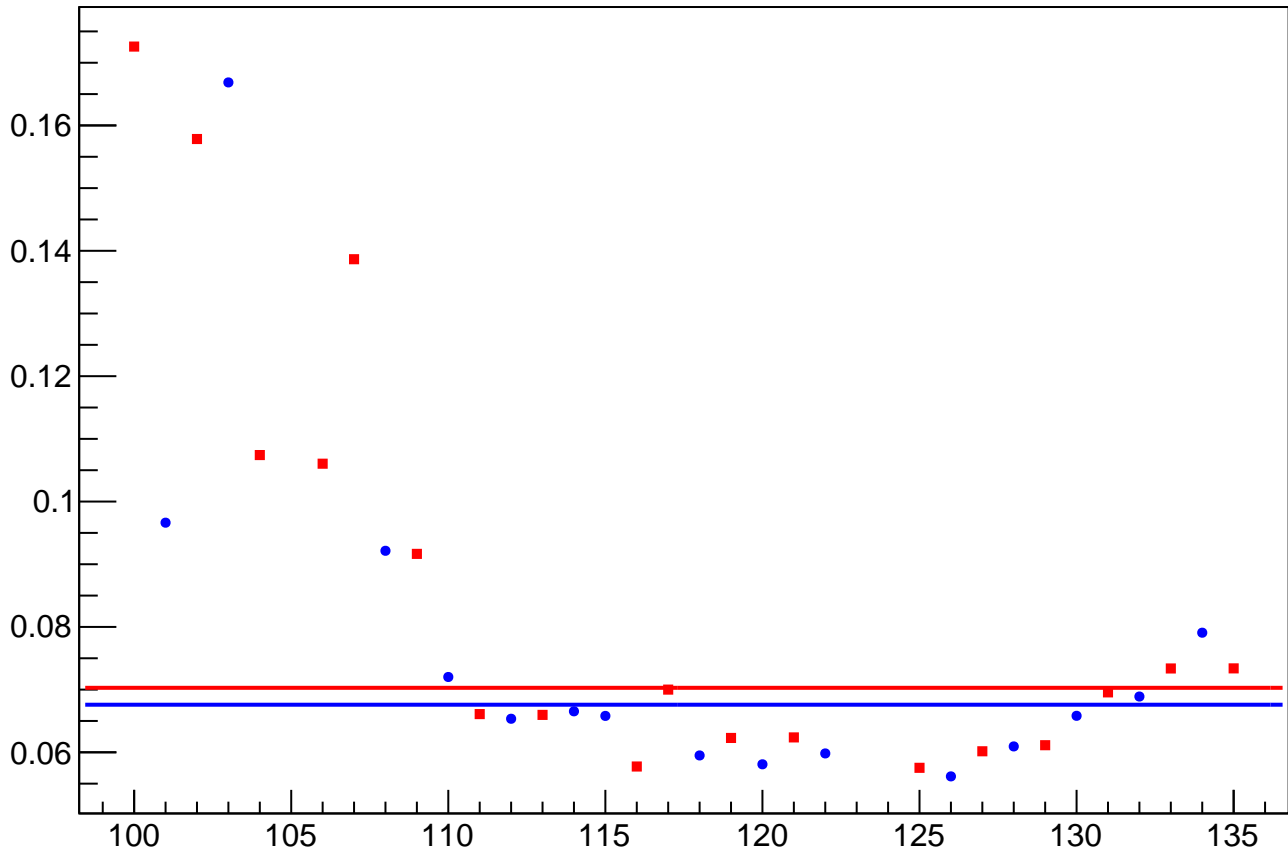
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

32.078+/-0.000  $\chi^2$ /NDF: 1121255335.8/14

31.893+/-0.000  $\chi^2$ /NDF: 2029385014.5/3

31.720+/-0.000  $\chi^2$ /NDF: 835767951.2/17

# yield\_usl\_rms vs Slug, Sign Corrected



Right In: 0.068+/-0.000  $\chi^2/\text{NDF}$ : 624650.4/14

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

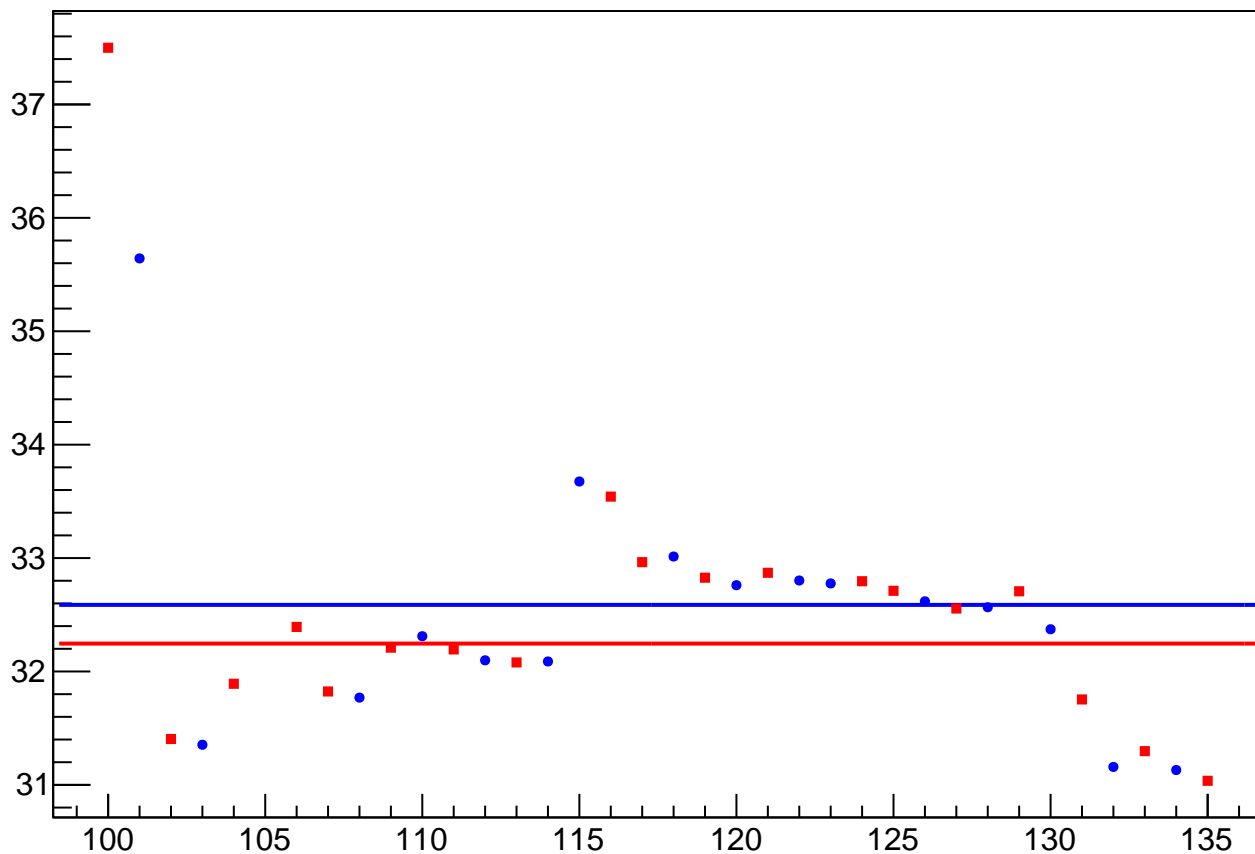
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.068+/-0.000  $\chi^2/\text{NDF}$ : 624650.4/14

0.069+/-0.000  $\chi^2/\text{NDF}$ : 1473424.8/32

0.070+/-0.000  $\chi^2/\text{NDF}$ : 840558.7/17

# yield\_usr\_mean vs Slug, Sign Corrected



Right In: 32.587+/-0.000  $\chi^2$ /NDF: 610332637.4/15

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

Right Out: 32.246+/-0.000  $\chi^2$ /NDF: 359023315.8/18

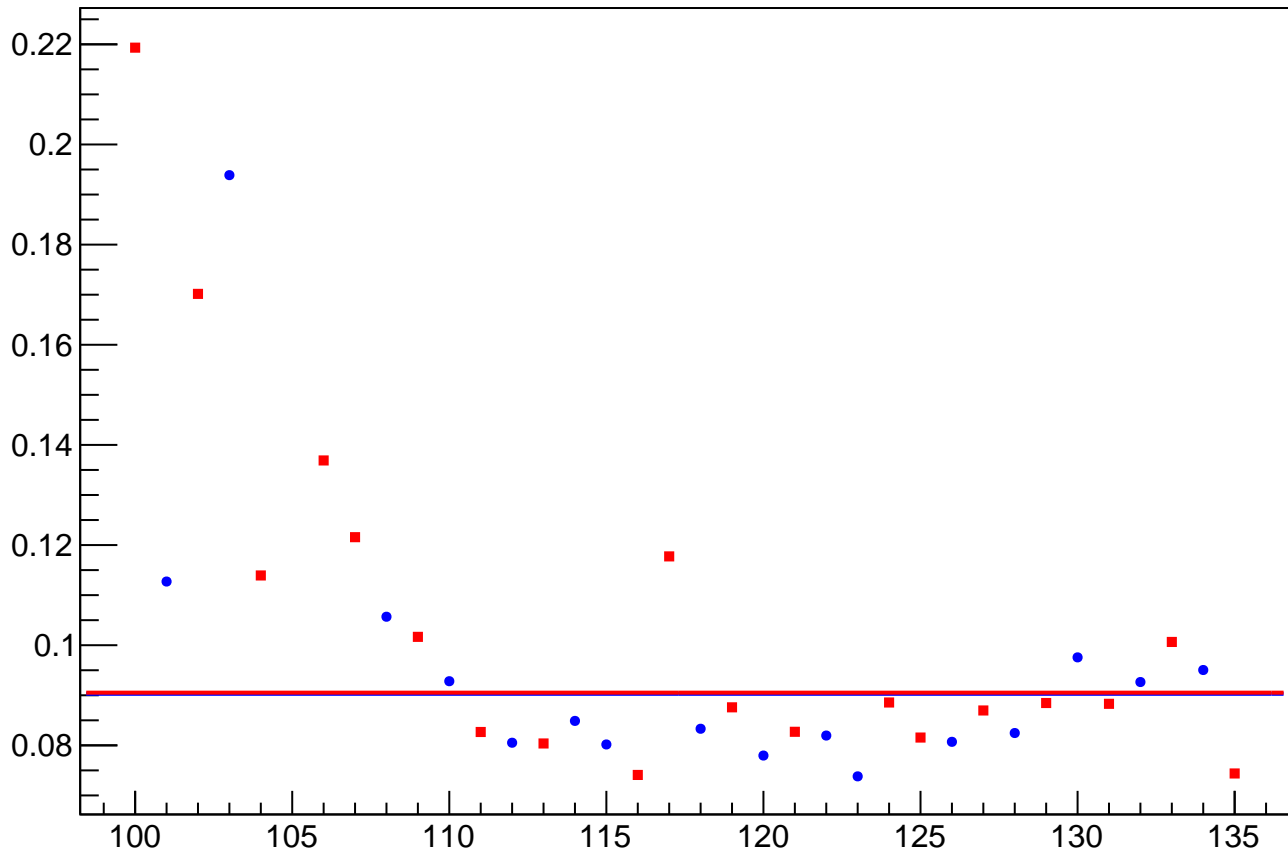
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

32.587+/-0.000  $\chi^2$ /NDF: 610332637.4/15

32.402+/-0.000  $\chi^2$ /NDF: 1008528429.8/3

32.246+/-0.000  $\chi^2$ /NDF: 359023315.8/18

# yield\_usr\_rms vs Slug, Sign Corrected



Right In: 0.090+/-0.000  $\chi^2/\text{NDF}$ : 440649.2/15

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

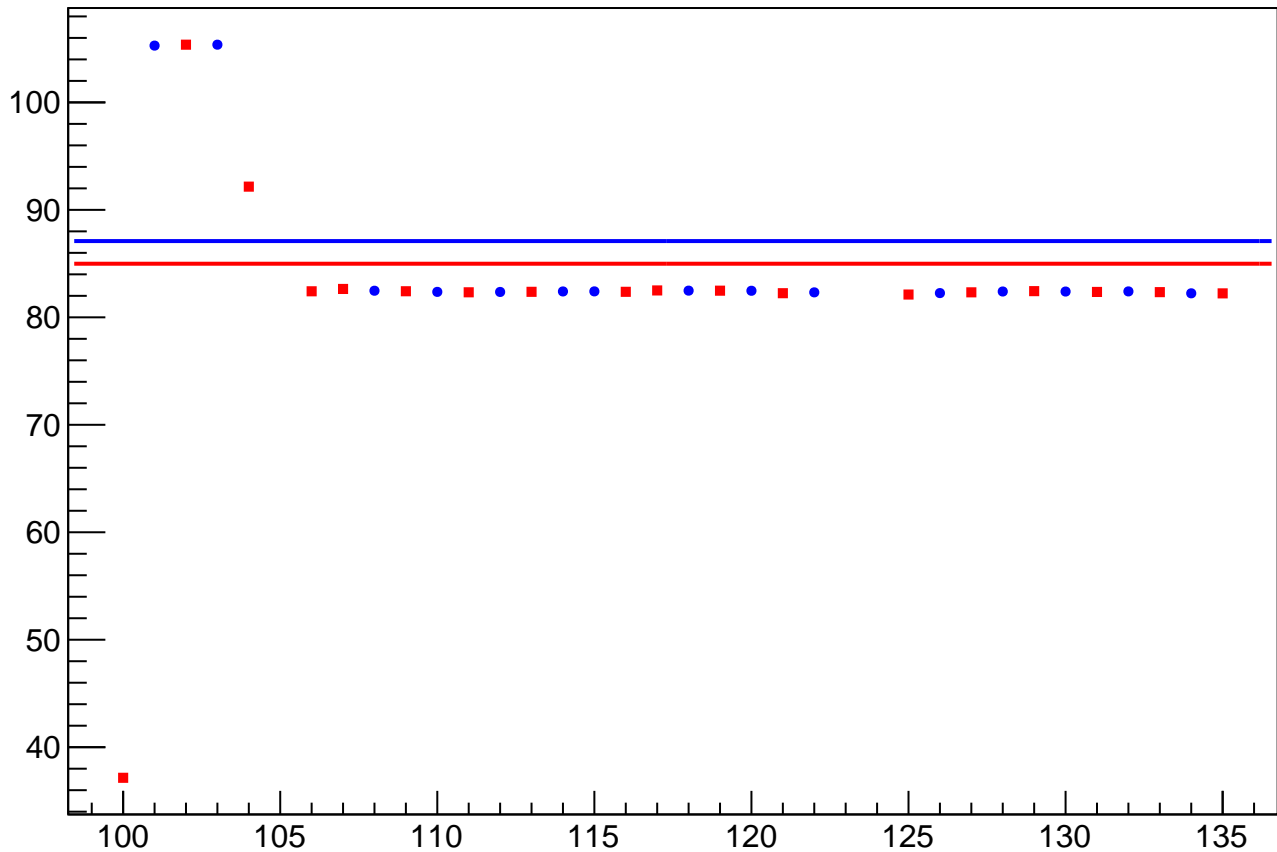
0.090+/-0.000  $\chi^2/\text{NDF}$ : 440649.2/15

0.090+/-0.000  $\chi^2/\text{NDF}$ : 957131.3/34

0.091+/-0.000  $\chi^2/\text{NDF}$ : 516445.6/18



# yield\_dsl\_mean vs Slug, Sign Corrected



Right In: 87.096+/-0.000  $\chi^2$ /NDF: 281142014013.6/14

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

Right Out: 84.988+/-0.000  $\chi^2$ /NDF: 171451579902.1/17

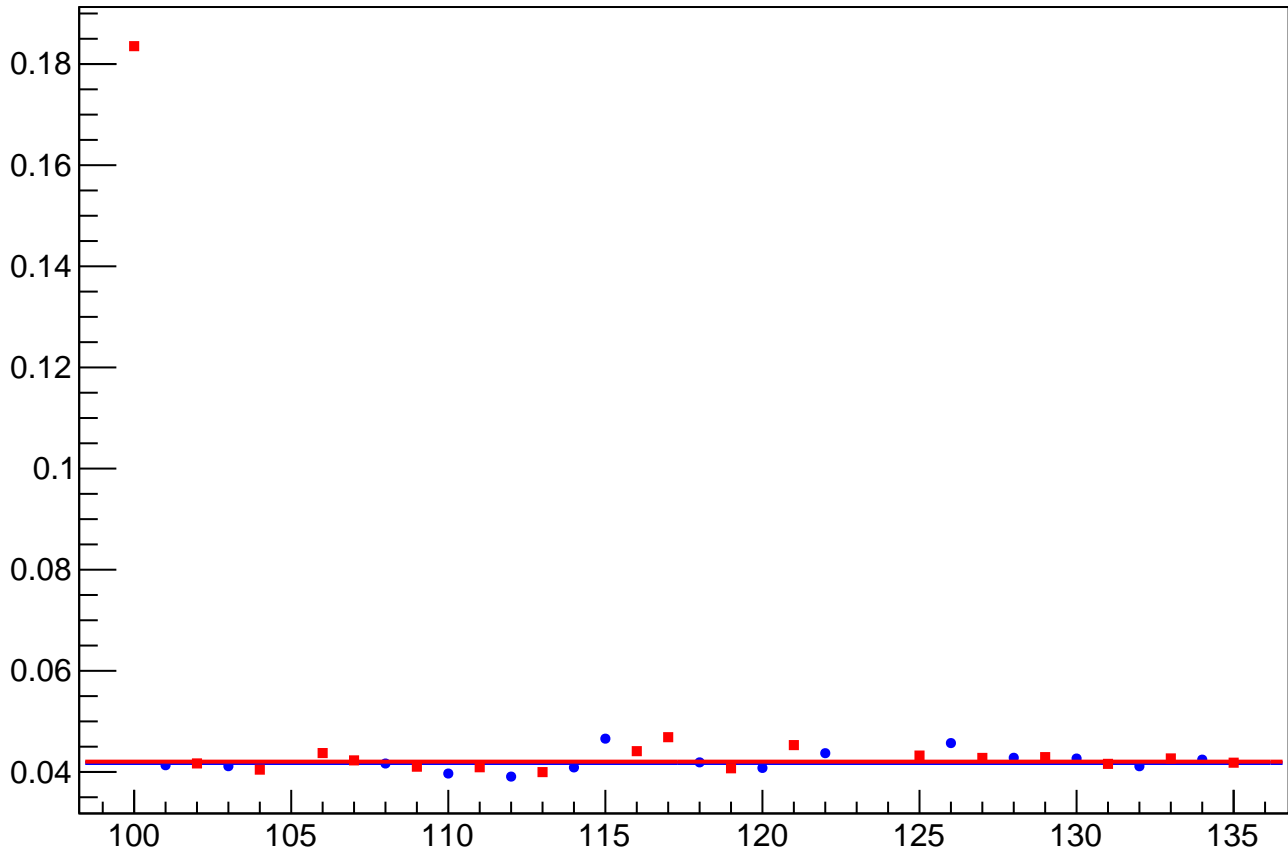
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

87.096+/-0.000  $\chi^2$ /NDF: 281142014013.6/14

85.963+/-0.000  $\chi^2$ /NDF: 460422207173.1

84.988+/-0.000  $\chi^2$ /NDF: 171451579902.1/17

# yield\_dsl\_rms vs Slug, Sign Corrected



Right In: 0.042+/-0.000  $\chi^2$ /NDF: 18768.9/14

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

Right Out: 0.042+/-0.000  $\chi^2$ /NDF: 97435.9/17

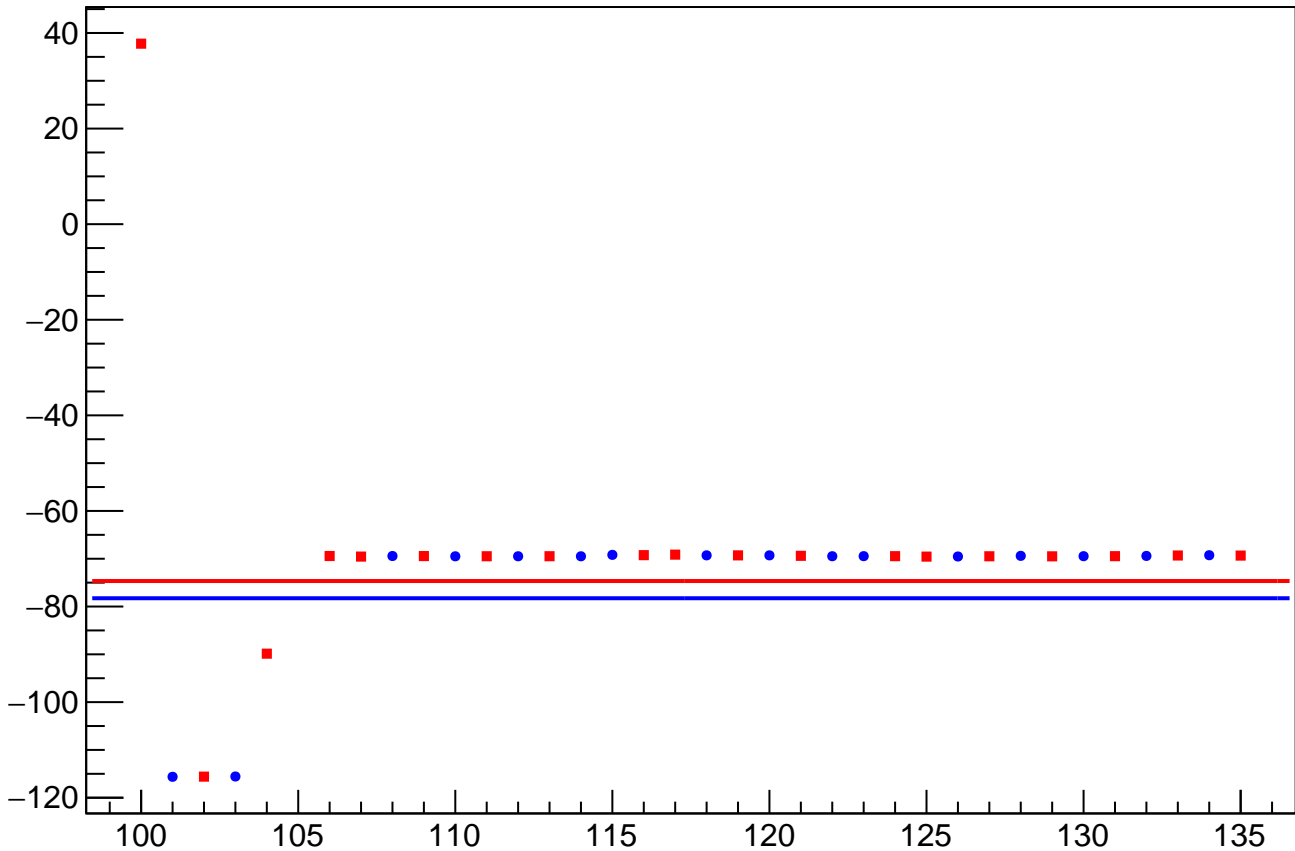
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.042+/-0.000  $\chi^2$ /NDF: 18768.9/14

0.042+/-0.000  $\chi^2$ /NDF: 116451.7/32

0.042+/-0.000  $\chi^2$ /NDF: 97435.9/17

# yield\_dsr\_mean vs Slug, Sign Corrected



Right In: -78.266+/-0.000  $\chi^2$ /NDF: 547814054778.0/15

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

-78.266+/-0.000  $\chi^2$ /NDF: 547814054778.0/15

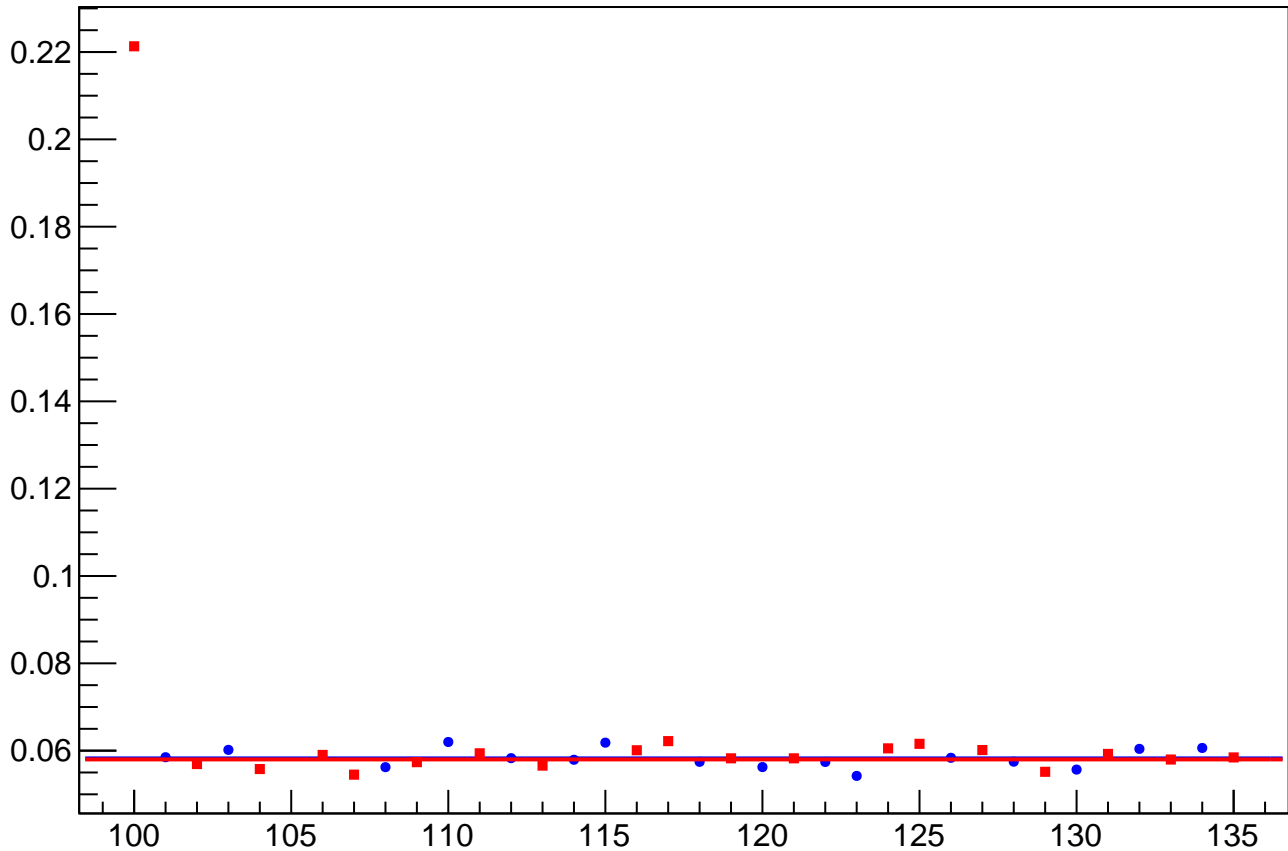
Right Out: -74.662+/-0.000  $\chi^2$ /NDF: 370695938663.3/18

-76.297+/-0.000  $\chi^2$ /NDF: 930281308655

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

-74.662+/-0.000  $\chi^2$ /NDF: 370695938663.3/18

# yield\_dsr\_rms vs Slug, Sign Corrected



Right In: 0.058+/-0.000  $\chi^2$ /NDF: 10718.7/15

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

Right Out: 0.058+/-0.000  $\chi^2$ /NDF: 86751.1/18

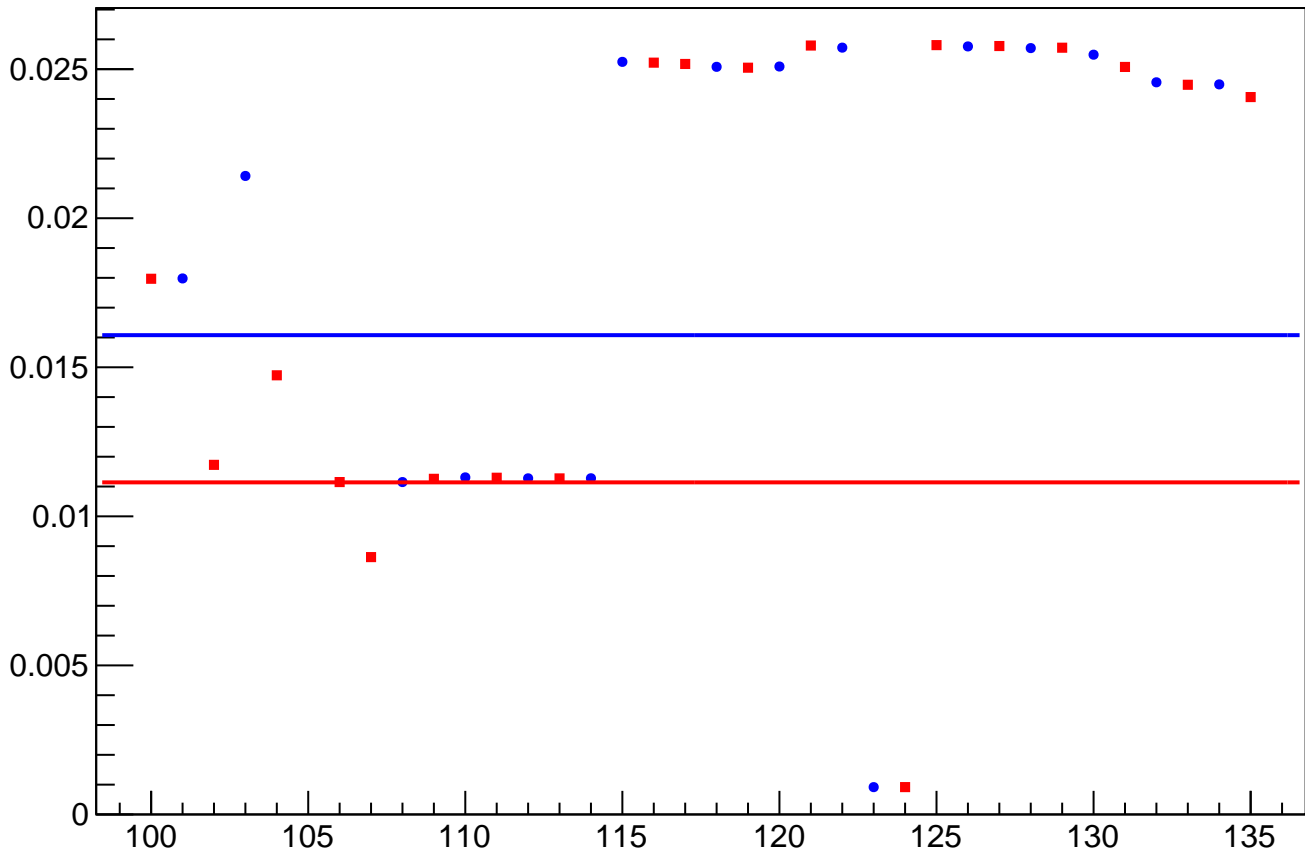
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.058+/-0.000  $\chi^2$ /NDF: 10718.7/15

0.058+/-0.000  $\chi^2$ /NDF: 97566.5/34

0.058+/-0.000  $\chi^2$ /NDF: 86751.1/18

# yield\_atl1\_mean vs Slug, Sign Corrected



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 116411349625.6/15

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

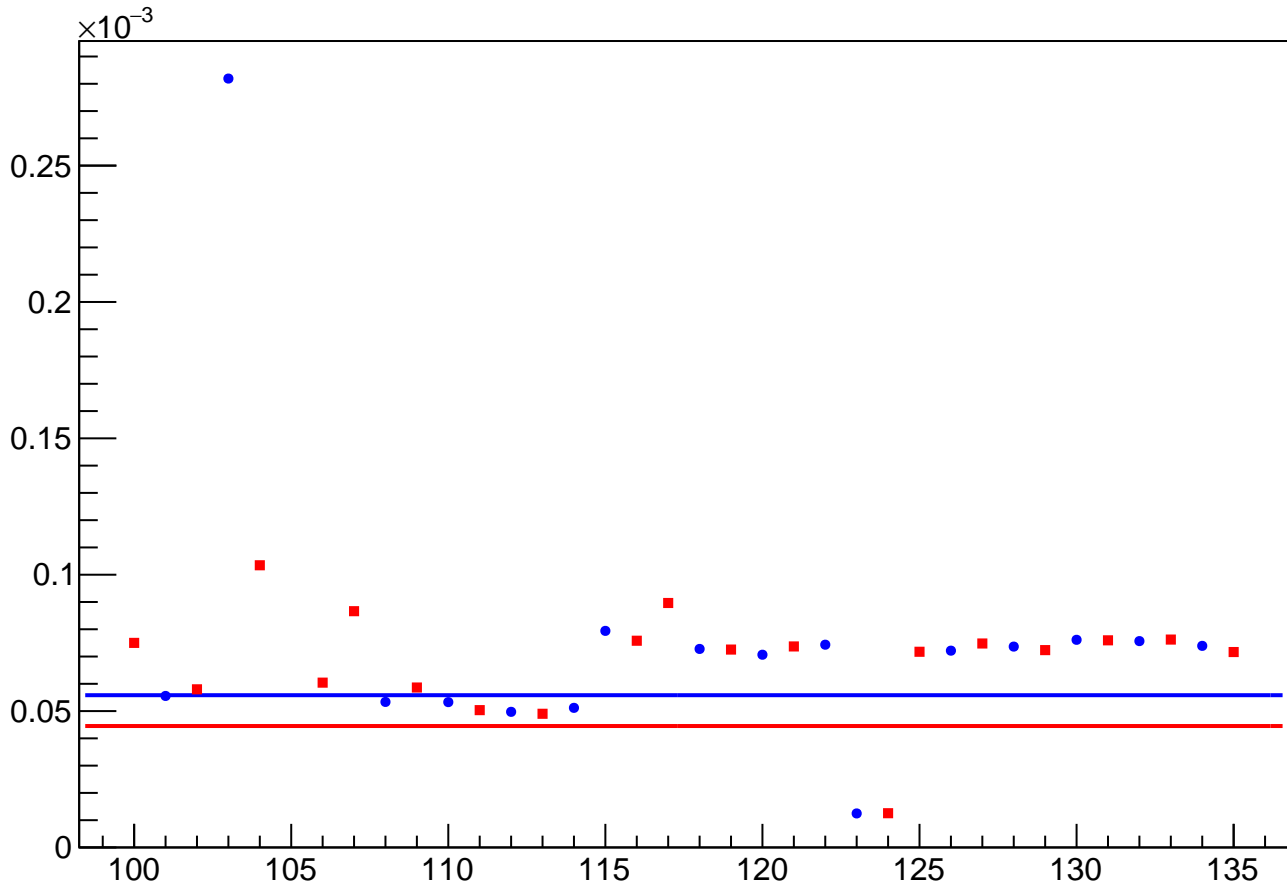
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.016+/-0.000  $\chi^2/\text{NDF}$ : 116411349625.6/15

0.013+/-0.000  $\chi^2/\text{NDF}$ : 368002428646.7/15

0.011+/-0.000  $\chi^2/\text{NDF}$ : 229249761141.9/18

# yield\_atl1\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 1952149.1/15

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

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 3568522.2/18

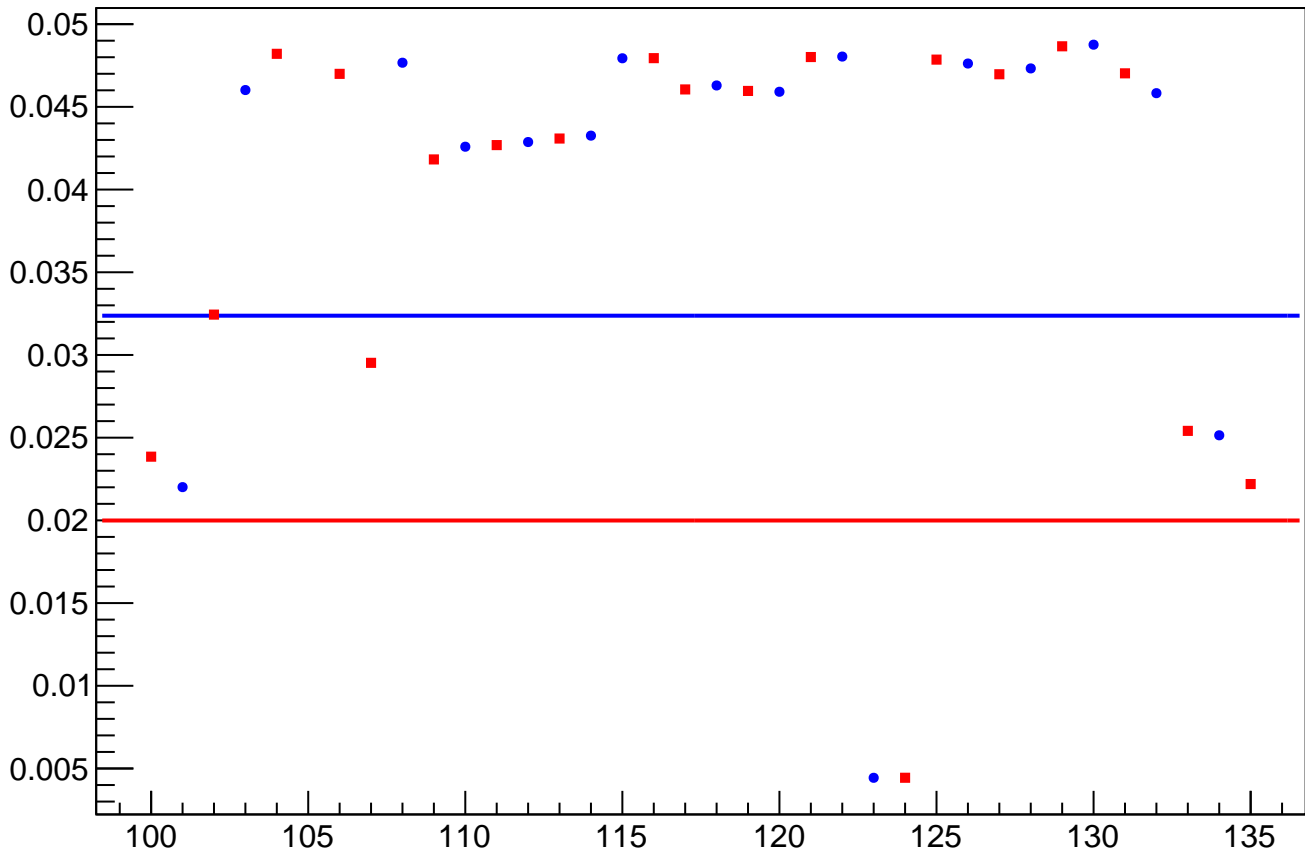
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 1952149.1/15

0.000+/-0.000  $\chi^2$ /NDF: 5754761.3/34

0.000+/-0.000  $\chi^2$ /NDF: 3568522.2/18

# yield\_atl2\_mean vs Slug, Sign Corrected



Right In: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 20226418695.0/15

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

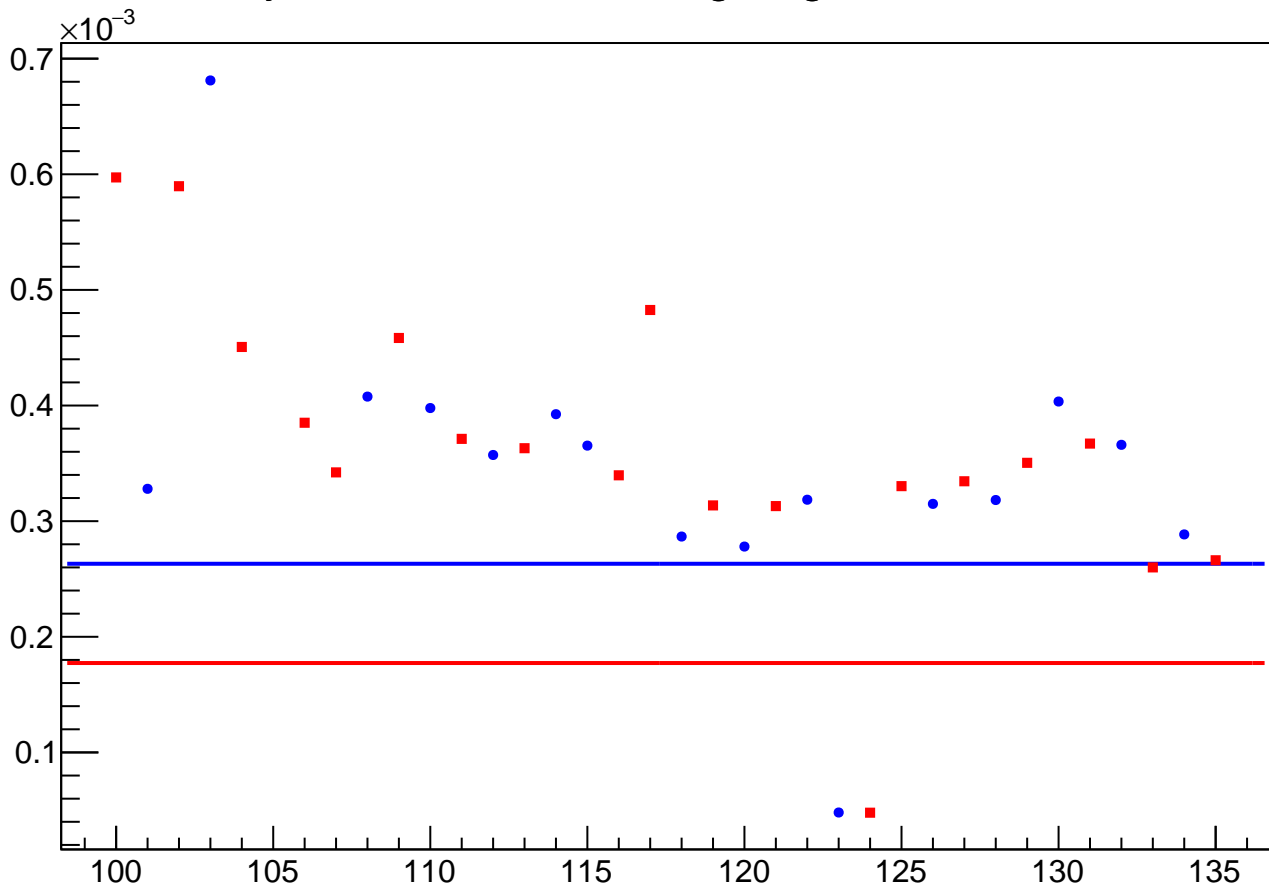
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.032+/-0.000  $\chi^2/\text{NDF}$ : 20226418695.0/15

0.024+/-0.000  $\chi^2/\text{NDF}$ : 66333301413.1/3

0.020+/-0.000  $\chi^2/\text{NDF}$ : 40116304757.1/18

# yield\_atl2\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 2401048.1/15

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

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 5341583.4/18

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

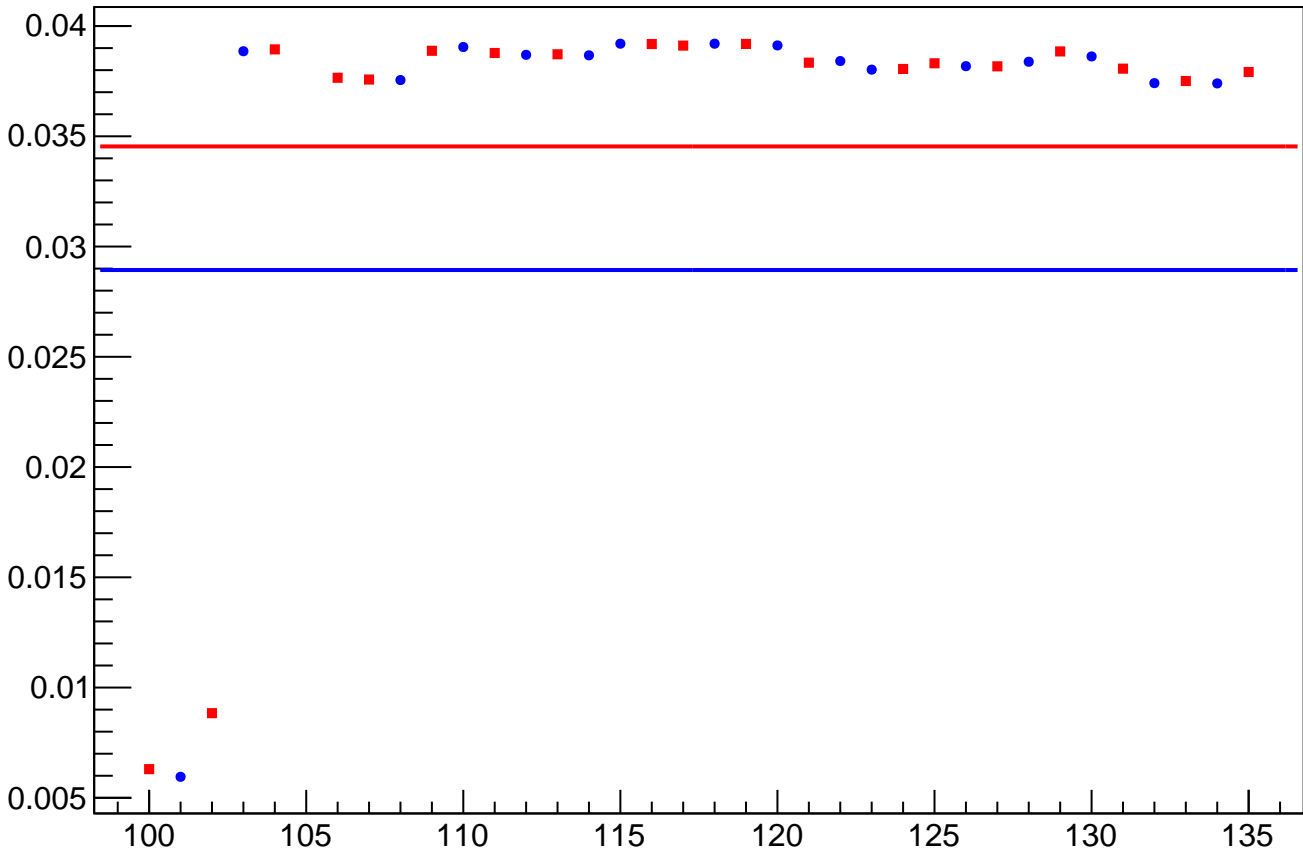
0.000+/-0.000  $\chi^2$ /NDF: 2401048.1/15

0.000+/-0.000  $\chi^2$ /NDF: 8318518.9/34

0.000+/-0.000  $\chi^2$ /NDF: 5341583.4/18



# yield\_atr1\_mean vs Slug, Sign Corrected



Right In: 0.029+/-0.000  $\chi^2/\text{NDF}$ : 93767861428.4/15

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

Right Out: 0.035+/-0.000  $\chi^2/\text{NDF}$ : 43611378248.8/18

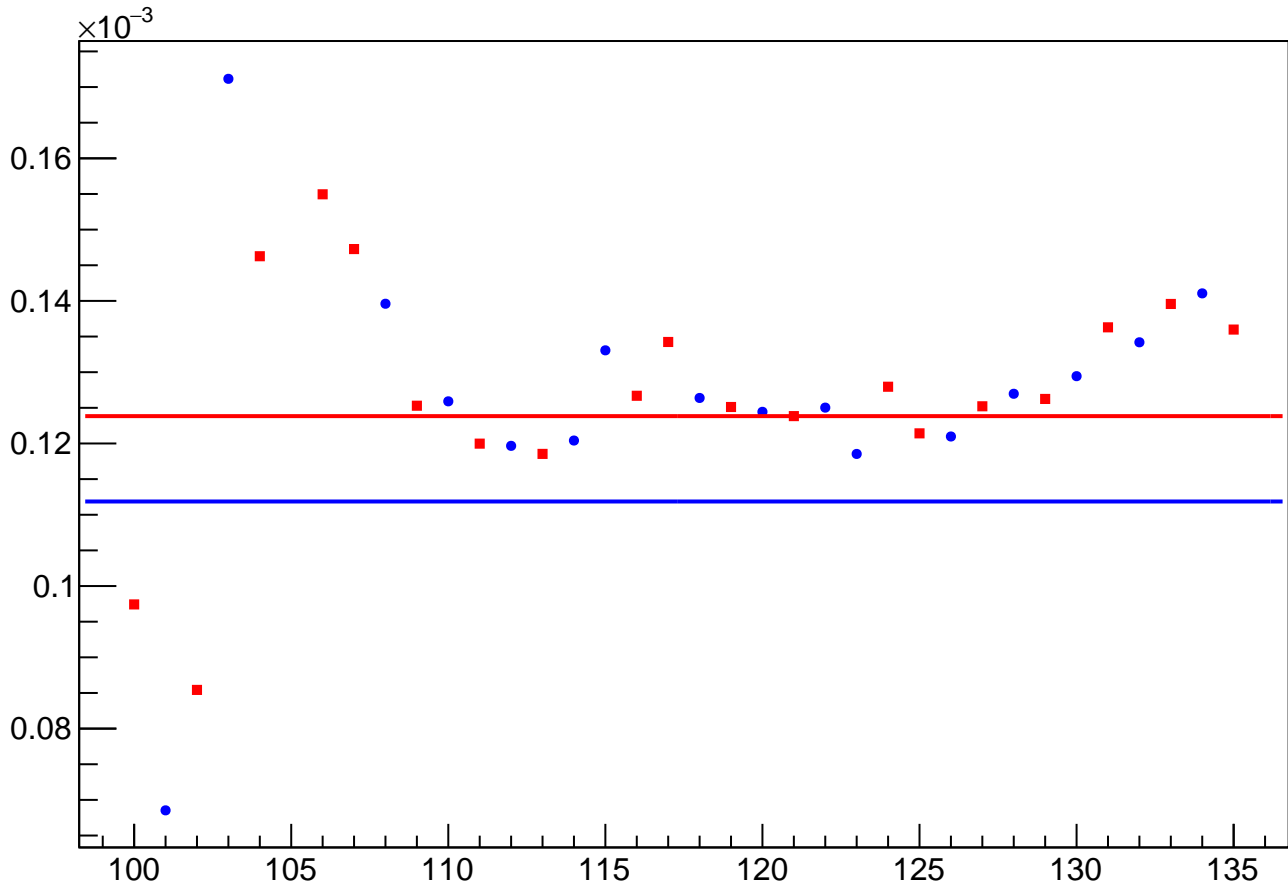
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.029+/-0.000  $\chi^2/\text{NDF}$ : 93767861428.4/15

0.032+/-0.000  $\chi^2/\text{NDF}$ : 144060811292.5/18

0.035+/-0.000  $\chi^2/\text{NDF}$ : 43611378248.8/18

# yield\_atr1\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 755455.2/15

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

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 243848.7/18

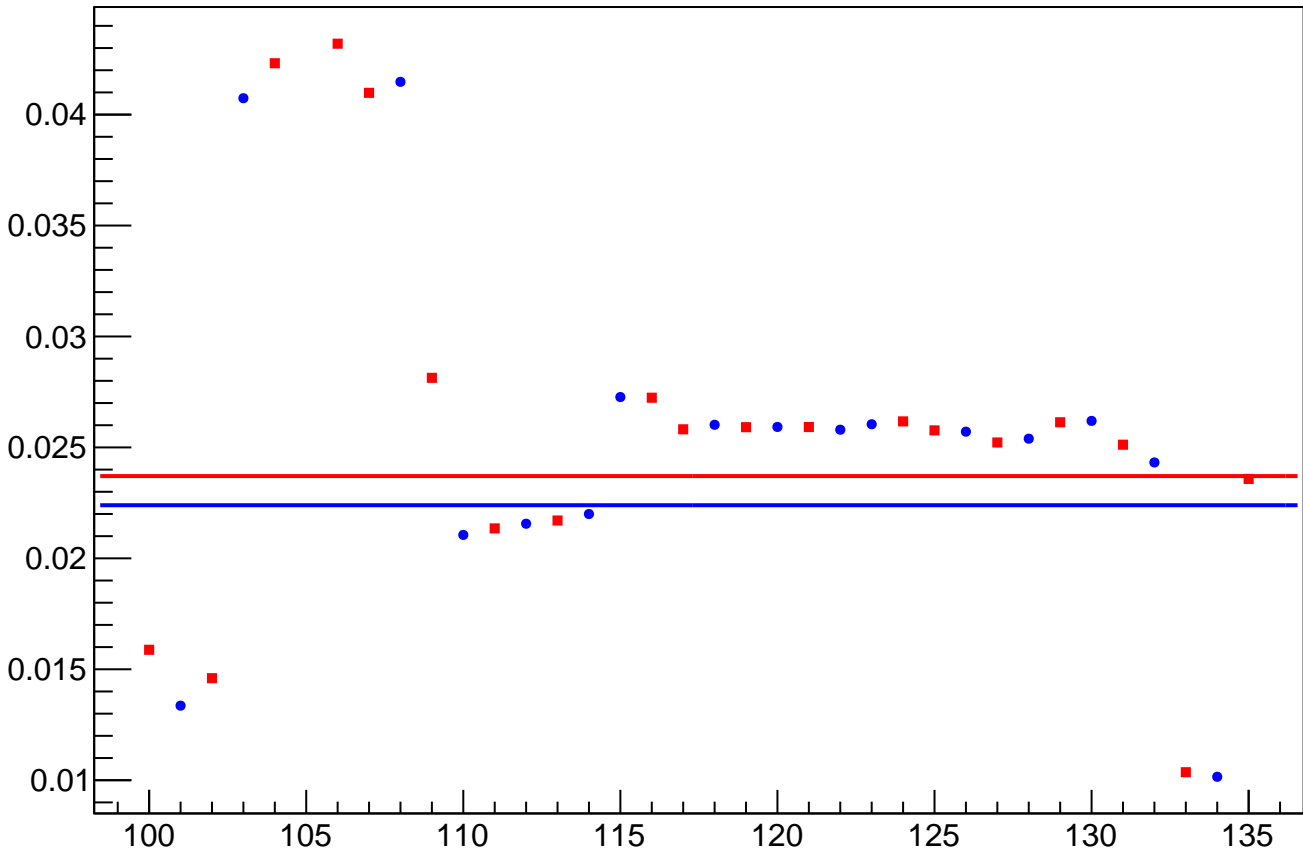
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 755455.2/15

0.000+/-0.000  $\chi^2$ /NDF: 1060288.7/34

0.000+/-0.000  $\chi^2$ /NDF: 243848.7/18

# yield\_atr2\_mean vs Slug, Sign Corrected



Right In: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 4230888238.2/15

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

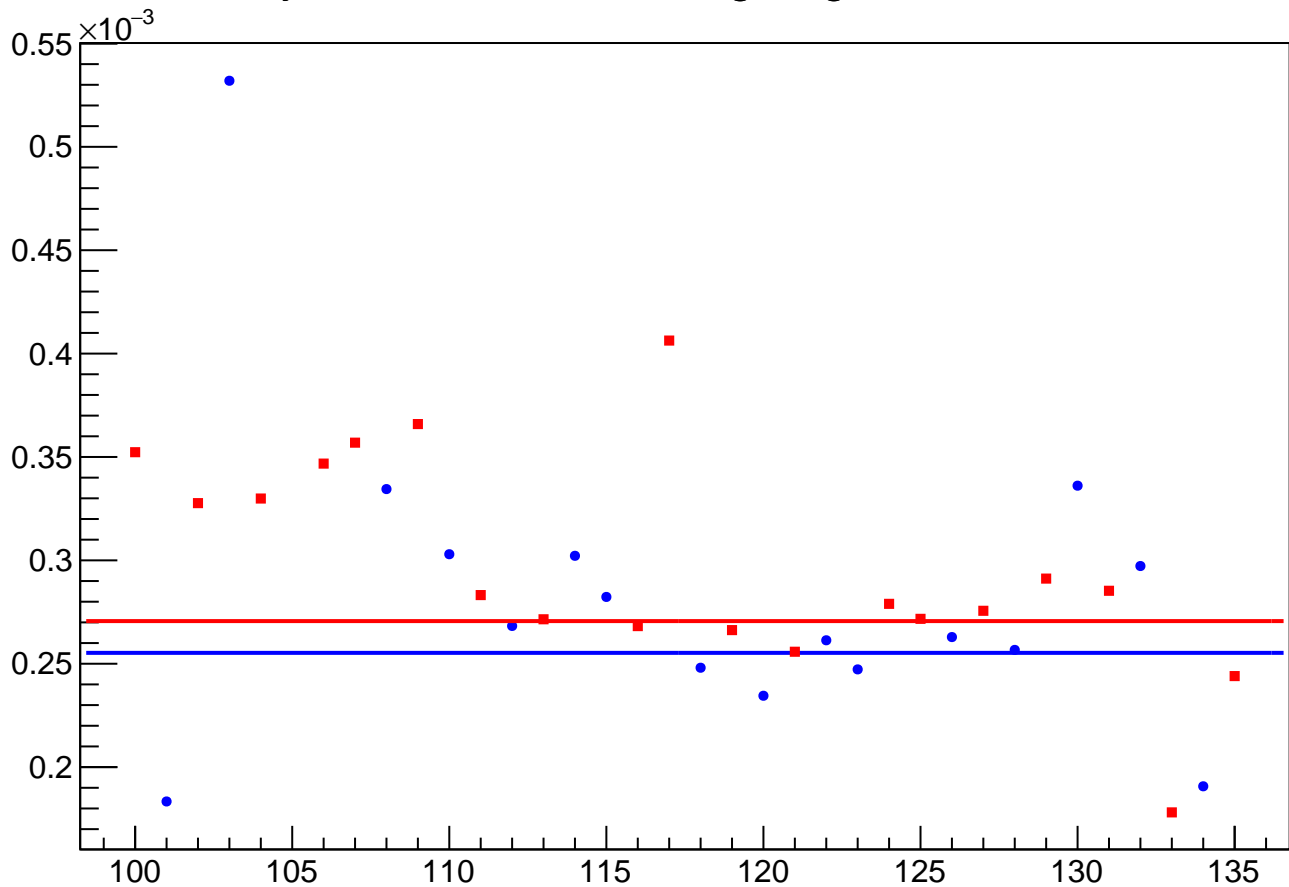
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.022+/-0.000  $\chi^2/\text{NDF}$ : 4230888238.2/15

0.023+/-0.000  $\chi^2/\text{NDF}$ : 9951766123.1/34

0.024+/-0.000  $\chi^2/\text{NDF}$ : 5652503274.6/18

# yield\_atr2\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 625319.7/15

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

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 427877.7/18

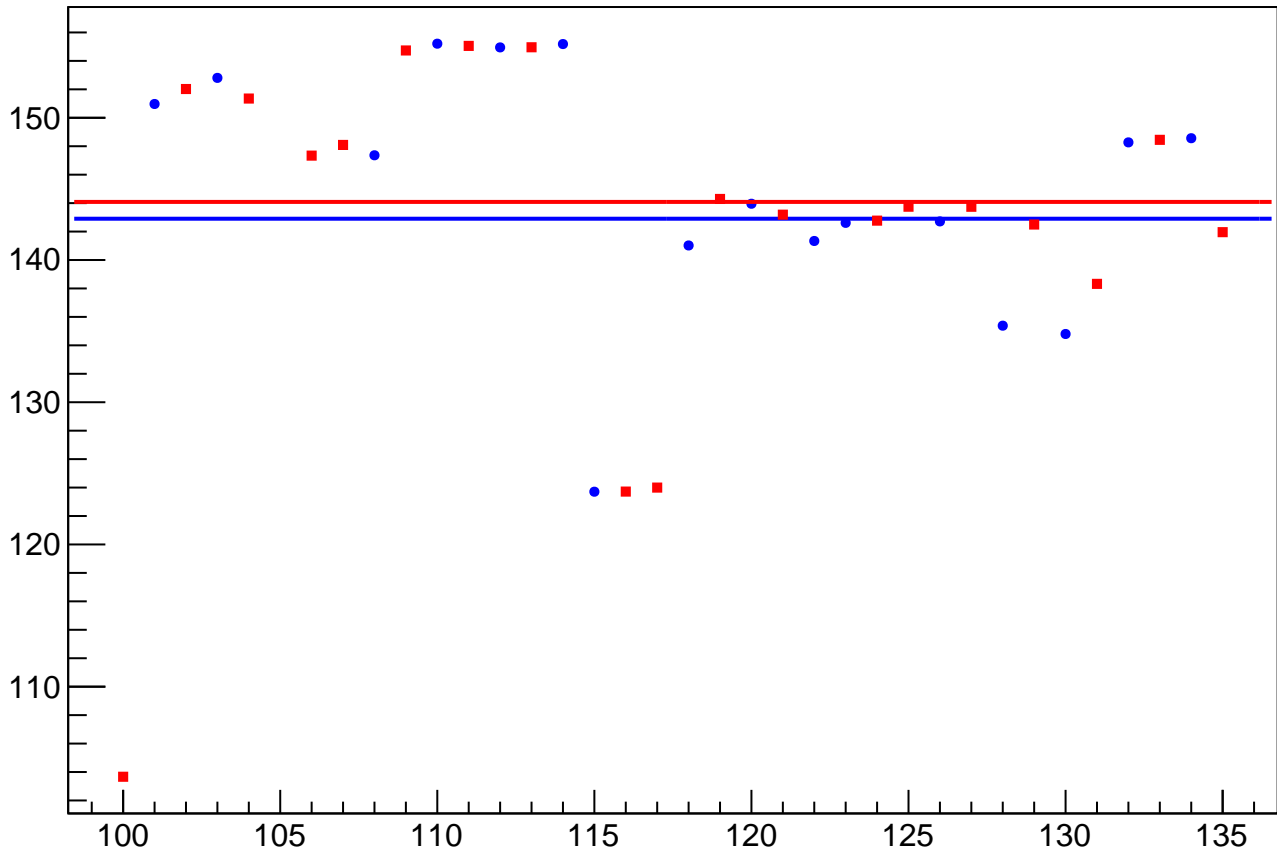
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 625319.7/15

0.000+/-0.000  $\chi^2$ /NDF: 1071891.5/34

0.000+/-0.000  $\chi^2$ /NDF: 427877.7/18

# yield\_bcm\_an\_ds\_mean vs Slug, Sign Corrected



Right In: 142.903+/-0.000  $\chi^2/\text{NDF}$ : 3273425103.5/15

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

Right Out: 144.085+/-0.000  $\chi^2/\text{NDF}$ : 4489805731.9/18

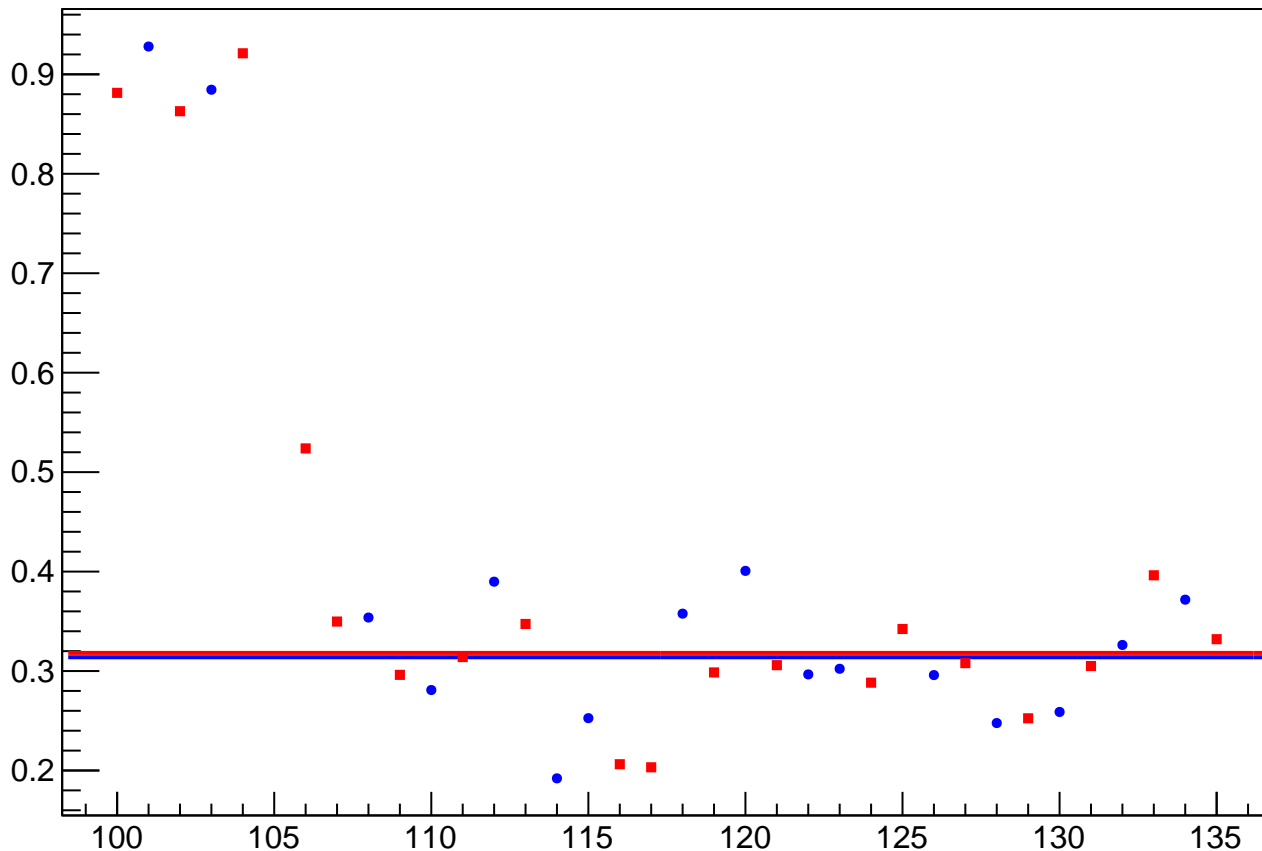
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

142.903+/-0.000  $\chi^2/\text{NDF}$ : 3273425103.5/15

143.540+/-0.000  $\chi^2/\text{NDF}$ : 7799425239.0/15

144.085+/-0.000  $\chi^2/\text{NDF}$ : 4489805731.9/18

# yield\_bcm\_an\_ds\_rms vs Slug, Sign Corrected



Right In: 0.314+/-0.000  $\chi^2/\text{NDF}$ : 1262571.9/15

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

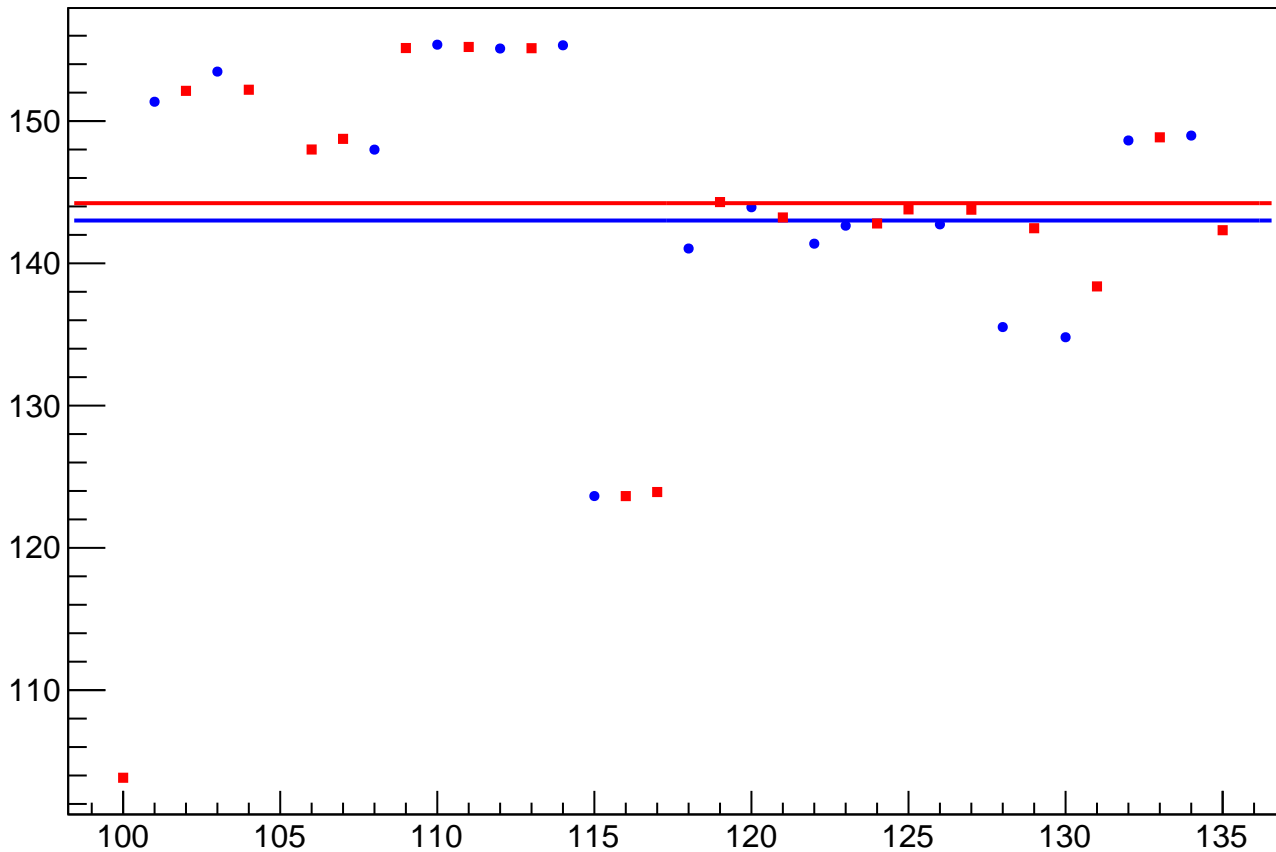
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.314+/-0.000  $\chi^2/\text{NDF}$ : 1262571.9/15

0.316+/-0.000  $\chi^2/\text{NDF}$ : 2493108.5/34

0.318+/-0.000  $\chi^2/\text{NDF}$ : 1229536.3/18

# yield\_bcm\_an\_ds3\_mean vs Slug, Sign Corrected



Right In: 143.010+/-0.000  $\chi^2/\text{NDF}$ : 3301688839.2/15

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

Right Out: 144.229+/-0.000  $\chi^2/\text{NDF}$ : 4514245035.8/18

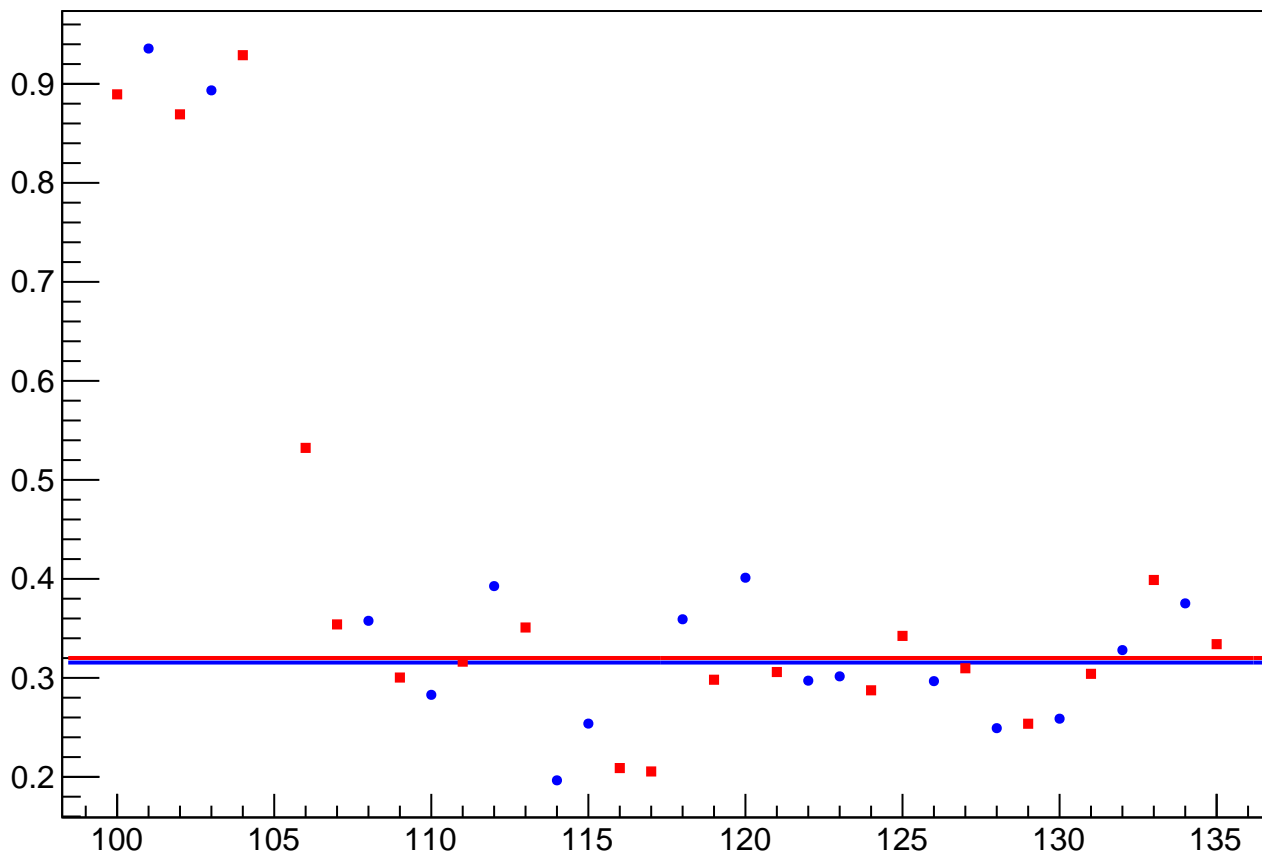
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

143.010+/-0.000  $\chi^2/\text{NDF}$ : 3301688839.2/15

143.667+/-0.000  $\chi^2/\text{NDF}$ : 7854018886.5/15

144.229+/-0.000  $\chi^2/\text{NDF}$ : 4514245035.8/18

# yield\_bcm\_an\_ds3\_rms vs Slug, Sign Corrected



Right In: 0.315+/-0.000  $\chi^2/\text{NDF}$ : 1264482.5/15

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

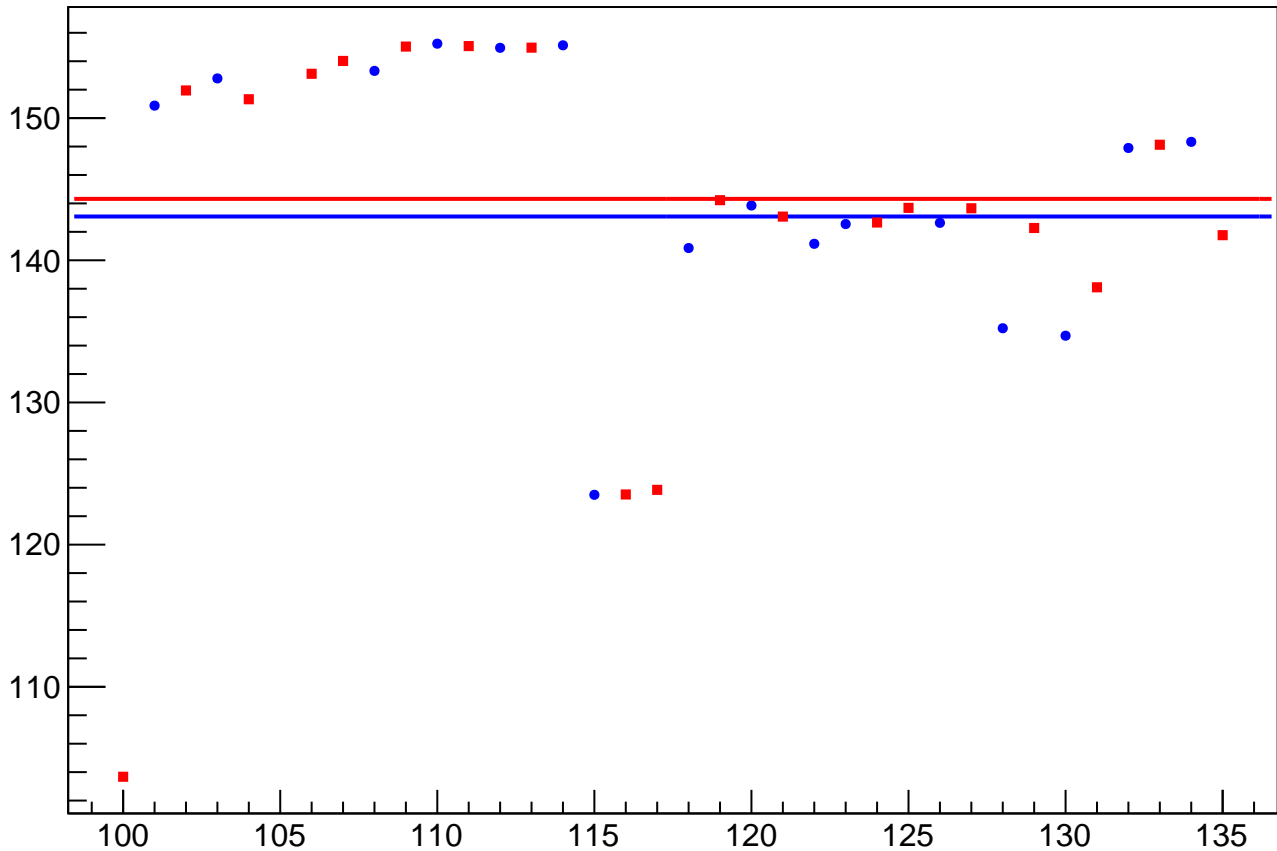
0.315+/-0.000  $\chi^2/\text{NDF}$ : 1264482.5/15

0.318+/-0.000  $\chi^2/\text{NDF}$ : 2497533.6/34

0.320+/-0.000  $\chi^2/\text{NDF}$ : 1231958.8/18



# yield\_bcm\_an\_us\_mean vs Slug, Sign Corrected



Right In: 143.080+/-0.000  $\chi^2/\text{NDF}$ : 3520418852.2/15

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

Right Out: 144.319+/-0.000  $\chi^2/\text{NDF}$ : 4790744717.5/18

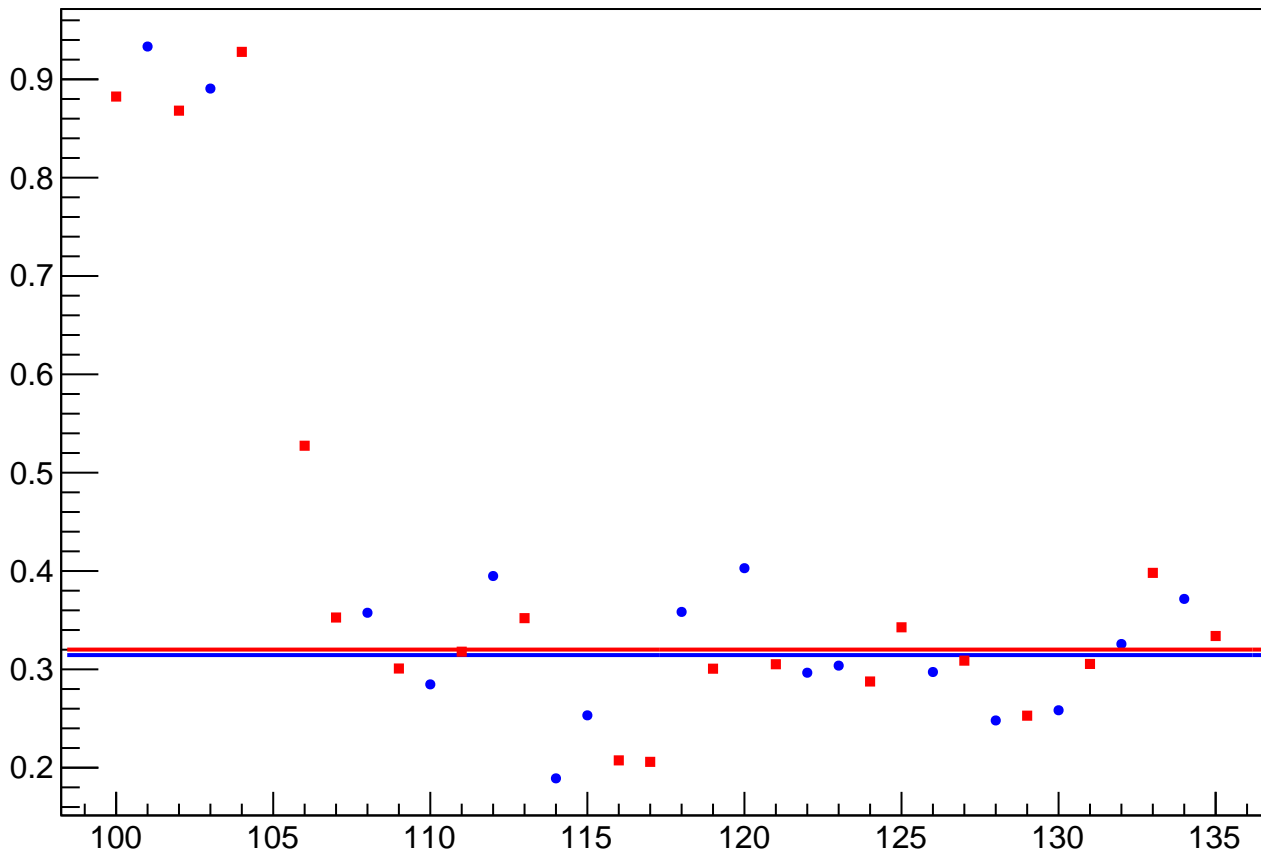
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

143.080+/-0.000  $\chi^2/\text{NDF}$ : 3520418852.2/15

143.746+/-0.000  $\chi^2/\text{NDF}$ : 8350611726.9/15

144.319+/-0.000  $\chi^2/\text{NDF}$ : 4790744717.5/18

# yield\_bcm\_an\_us\_rms vs Slug, Sign Corrected



Right In: 0.315+/-0.000  $\chi^2/\text{NDF}$ : 1276998.2/15

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

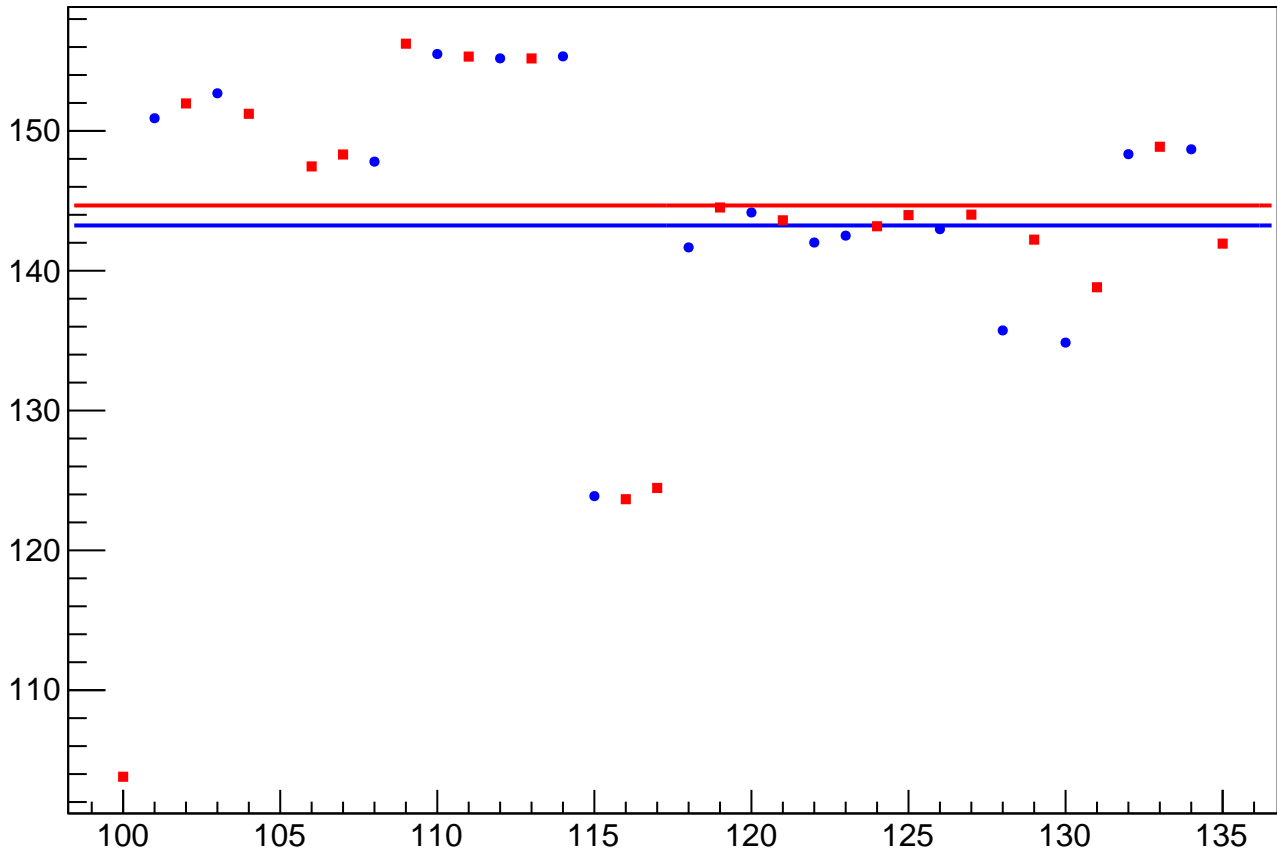
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.315+/-0.000  $\chi^2/\text{NDF}$ : 1276998.2/15

0.318+/-0.000  $\chi^2/\text{NDF}$ : 2511276.8/34

0.320+/-0.000  $\chi^2/\text{NDF}$ : 1232667.6/18

# yield\_bcm\_dg\_us\_mean vs Slug, Sign Corrected



Right In: 143.238+/-0.000  $\chi^2/\text{NDF}$ : 3022617253.8/15

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

Right Out: 144.668+/-0.000  $\chi^2/\text{NDF}$ : 4071319579.8/18

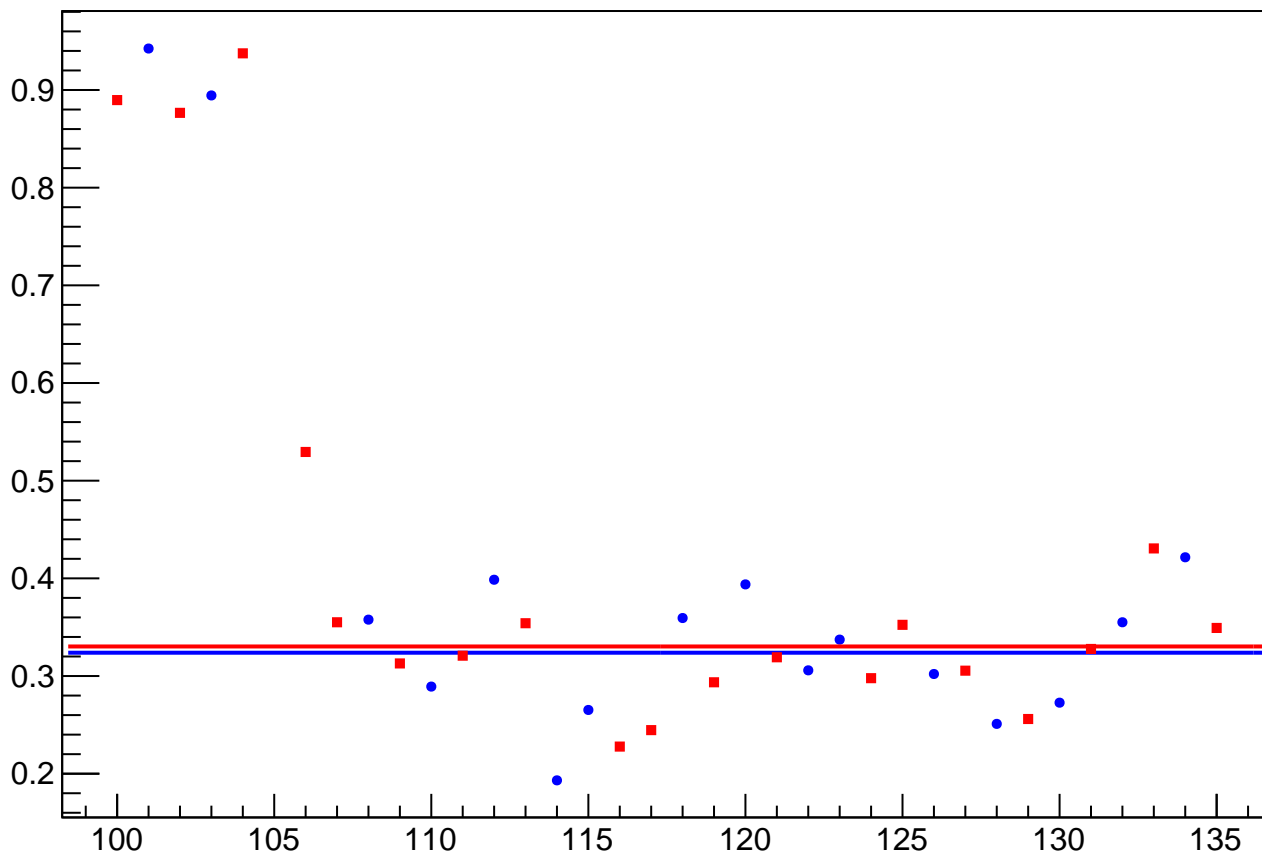
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

143.238+/-0.000  $\chi^2/\text{NDF}$ : 3022617253.8/15

144.007+/-0.000  $\chi^2/\text{NDF}$ : 7143375975.2/15

144.668+/-0.000  $\chi^2/\text{NDF}$ : 4071319579.8/18

# yield\_bcm\_dg\_us\_rms vs Slug, Sign Corrected



Right In: 0.324+/-0.000  $\chi^2/\text{NDF}$ : 1252586.7/15

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

Right Out: 0.330+/-0.000  $\chi^2/\text{NDF}$ : 1181779.8/18

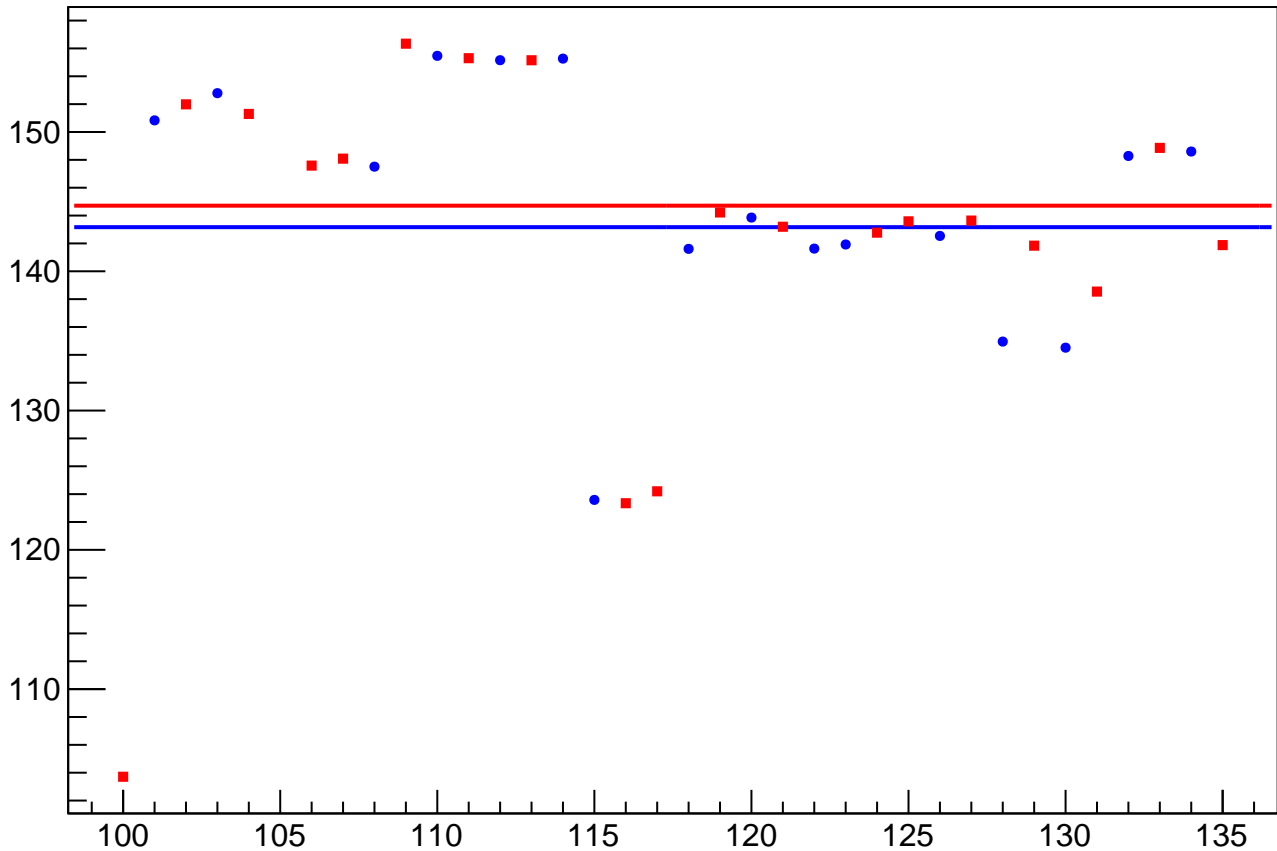
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.324+/-0.000  $\chi^2/\text{NDF}$ : 1252586.7/15

0.327+/-0.000  $\chi^2/\text{NDF}$ : 2436345.2/34

0.330+/-0.000  $\chi^2/\text{NDF}$ : 1181779.8/18

# yield\_bcm\_dg\_ds\_mean vs Slug, Sign Corrected



Right In: 143.167+/-0.000  $\chi^2/\text{NDF}$ : 3170966856.8/15

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

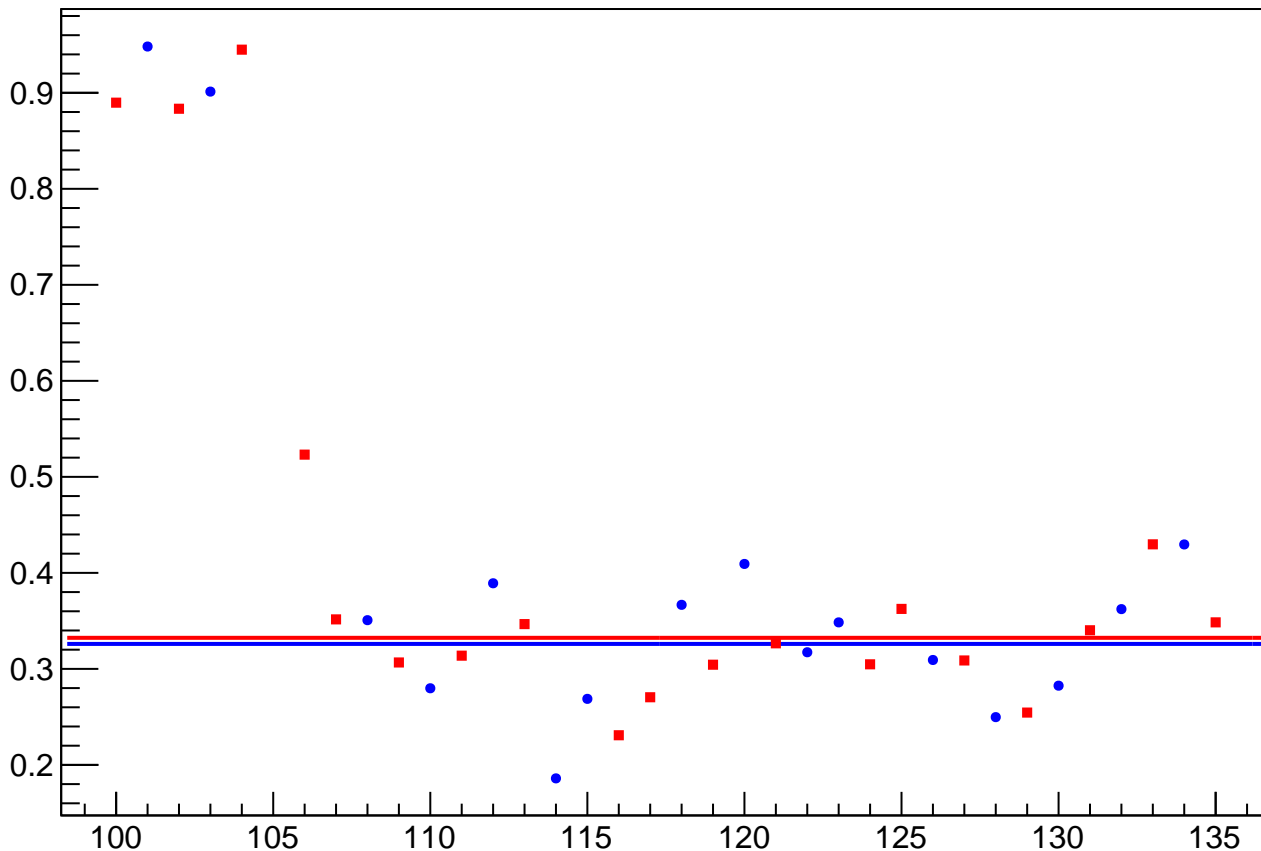
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

143.167+/-0.000  $\chi^2/\text{NDF}$ : 3170966856.8/15

143.998+/-0.000  $\chi^2/\text{NDF}$ : 7341039395.1/18

144.710+/-0.000  $\chi^2/\text{NDF}$ : 4113333684.5/18

# yield\_bcm\_dg\_ds\_rms vs Slug, Sign Corrected



Right In: 0.326+/-0.000  $\chi^2/\text{NDF}$ : 1270478.2/15

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

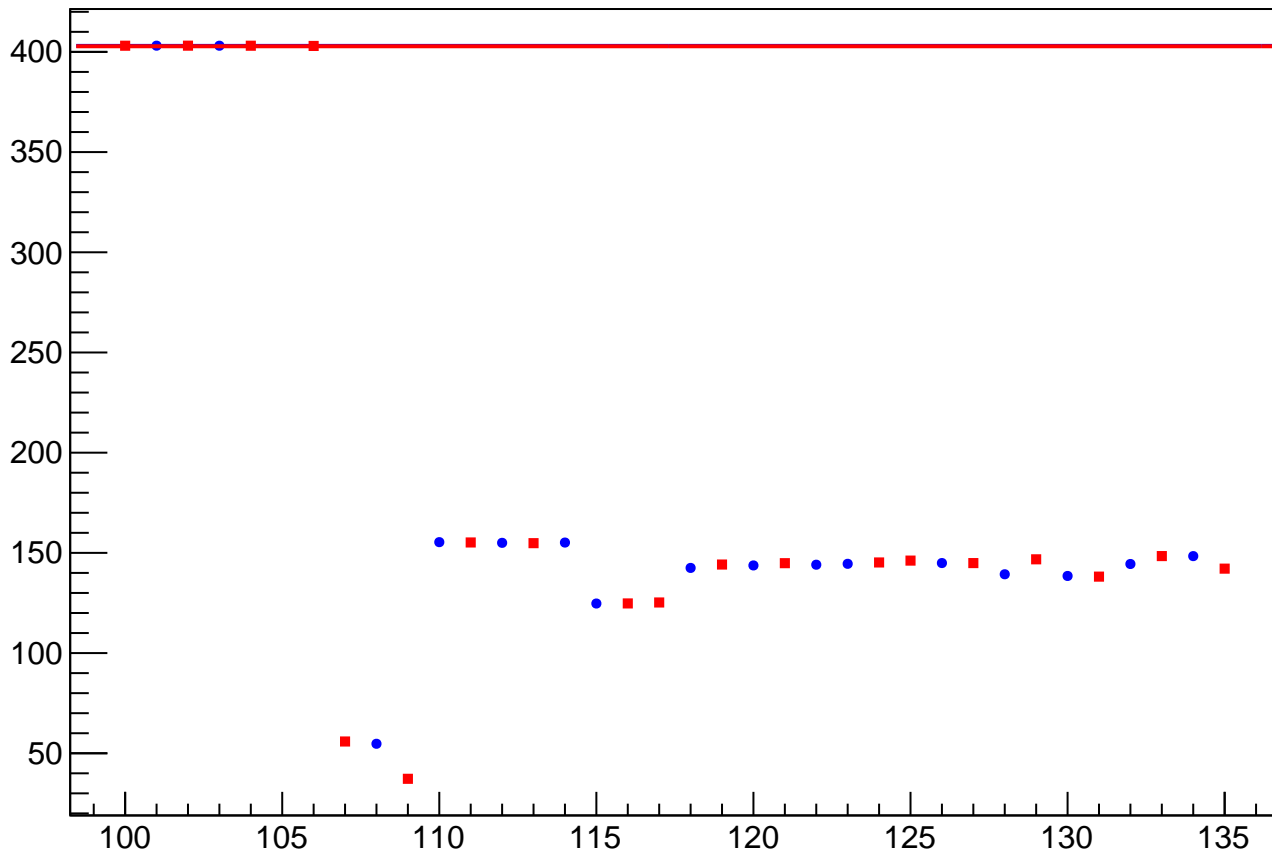
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.326+/-0.000  $\chi^2/\text{NDF}$ : 1270478.2/15

0.329+/-0.000  $\chi^2/\text{NDF}$ : 2439702.9/34

0.332+/-0.000  $\chi^2/\text{NDF}$ : 1167296.5/18

# yield\_cav4bQ\_mean vs Slug, Sign Corrected



Right In: 402.990+/-0.000  $\chi^2$ /NDF: 840804263286.0/15

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

402.990+/-0.000  $\chi^2$ /NDF: 840804263286.0/15

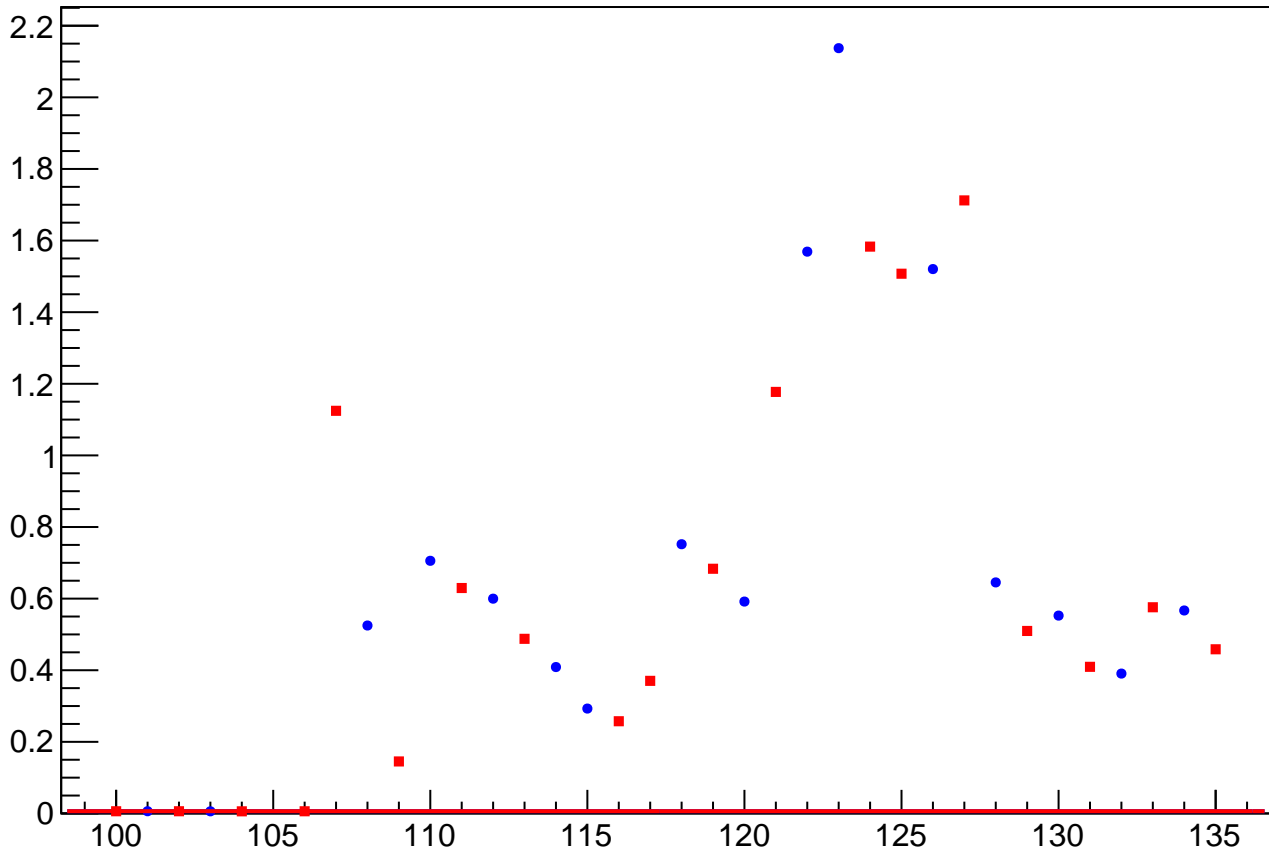
Right Out: 402.803+/-0.000  $\chi^2$ /NDF: 3063598495875.4/18

402.891+/-0.000  $\chi^2$ /NDF: 390497730495

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

402.803+/-0.000  $\chi^2$ /NDF: 3063598495875.4/18

# yield\_cav4bQ\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2$ /NDF: 7518527.5/15

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

Right Out: 0.006+/-0.000  $\chi^2$ /NDF: 8899378.1/18

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

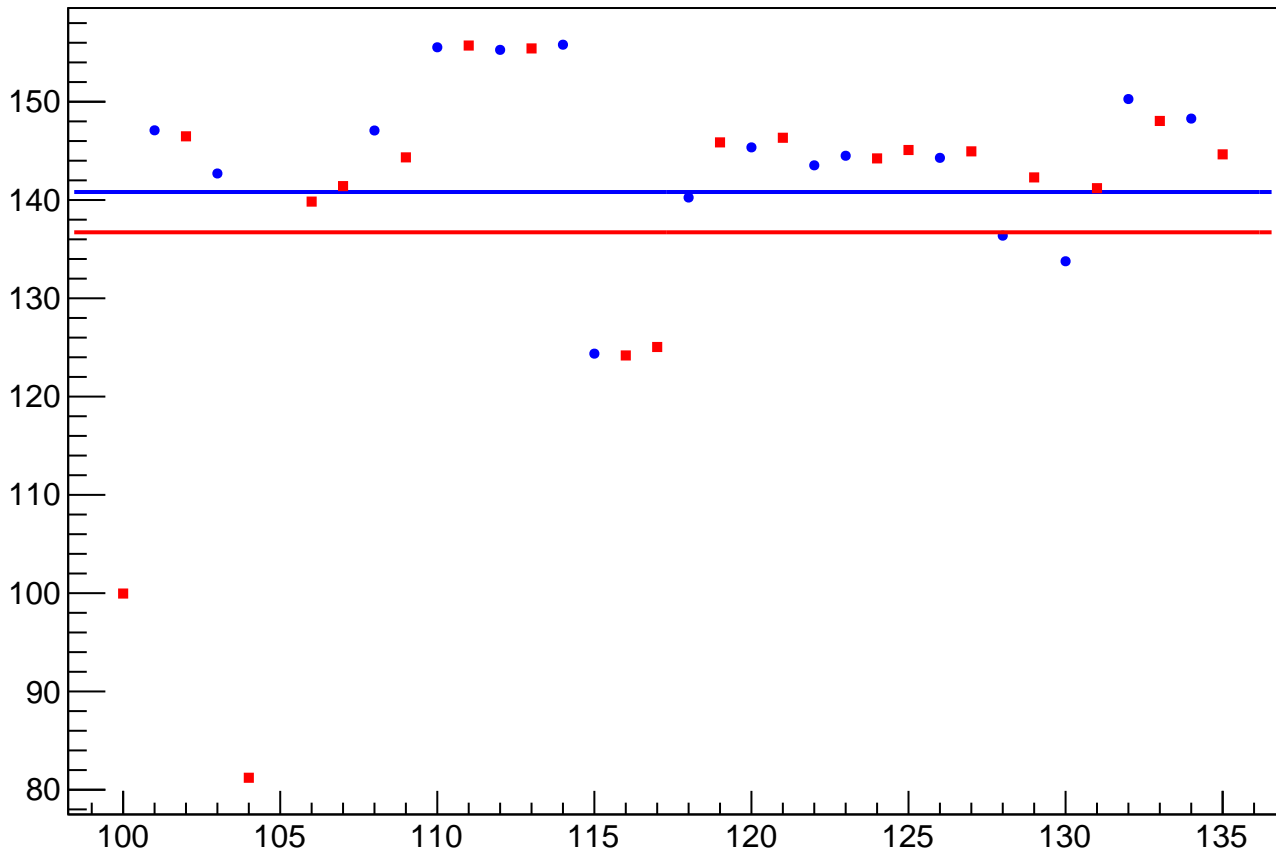
0.006+/-0.000  $\chi^2$ /NDF: 7518527.5/15

0.006+/-0.000  $\chi^2$ /NDF: 16417951.0/34

0.006+/-0.000  $\chi^2$ /NDF: 8899378.1/18



# yield\_cav4cQ\_mean vs Slug, Sign Corrected



Right In: 140.815+/-0.000  $\chi^2/\text{NDF}$ : 918720091.0/15

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

Right Out: 136.715+/-0.000  $\chi^2/\text{NDF}$ : 1303682159.8/18

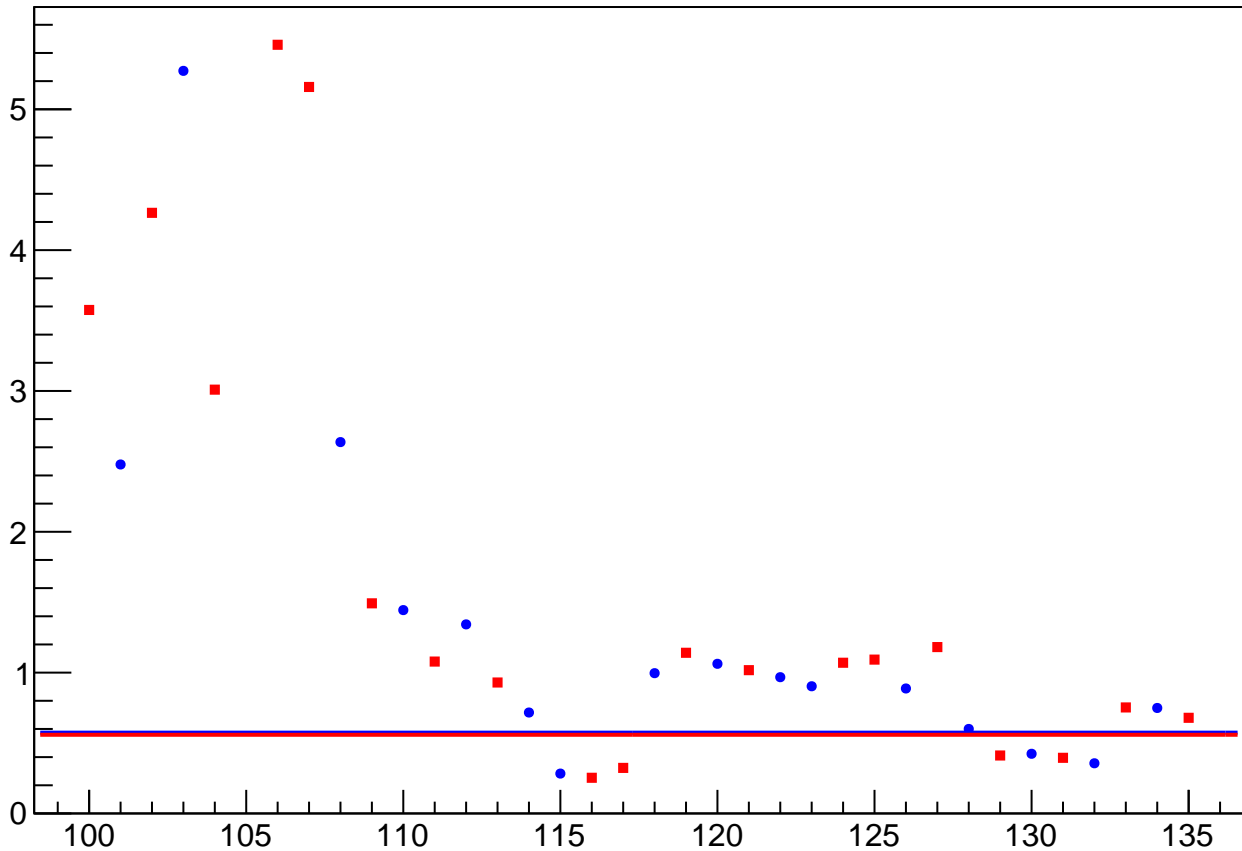
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

140.815+/-0.000  $\chi^2/\text{NDF}$ : 918720091.0/15

138.620+/-0.000  $\chi^2/\text{NDF}$ : 2305002408.0/15

136.715+/-0.000  $\chi^2/\text{NDF}$ : 1303682159.8/18

# yield\_cav4cQ\_rms vs Slug, Sign Corrected



Right In: 0.574+/-0.000  $\chi^2/\text{NDF}$ : 3437277.0/15

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

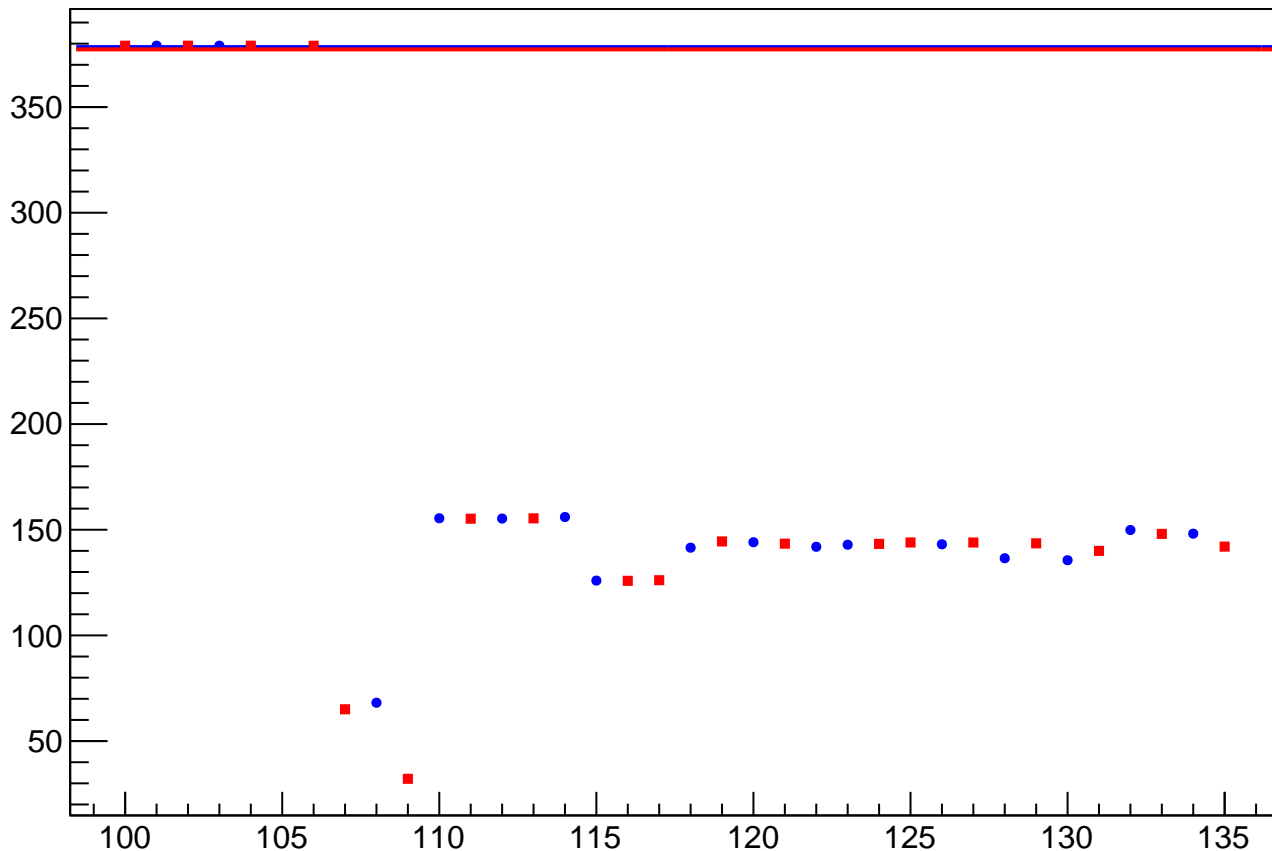
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.574+/-0.000  $\chi^2/\text{NDF}$ : 3437277.0/15

0.566+/-0.000  $\chi^2/\text{NDF}$ : 8160810.6/34

0.559+/-0.000  $\chi^2/\text{NDF}$ : 4721290.6/18

# yield\_cav4dQ\_mean vs Slug, Sign Corrected



Right In: 378.382+/-0.000  $\chi^2/\text{NDF}$ : 2206605316475.4/15

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

378.382+/-0.000  $\chi^2/\text{NDF}$ : 2206605316475.4/15

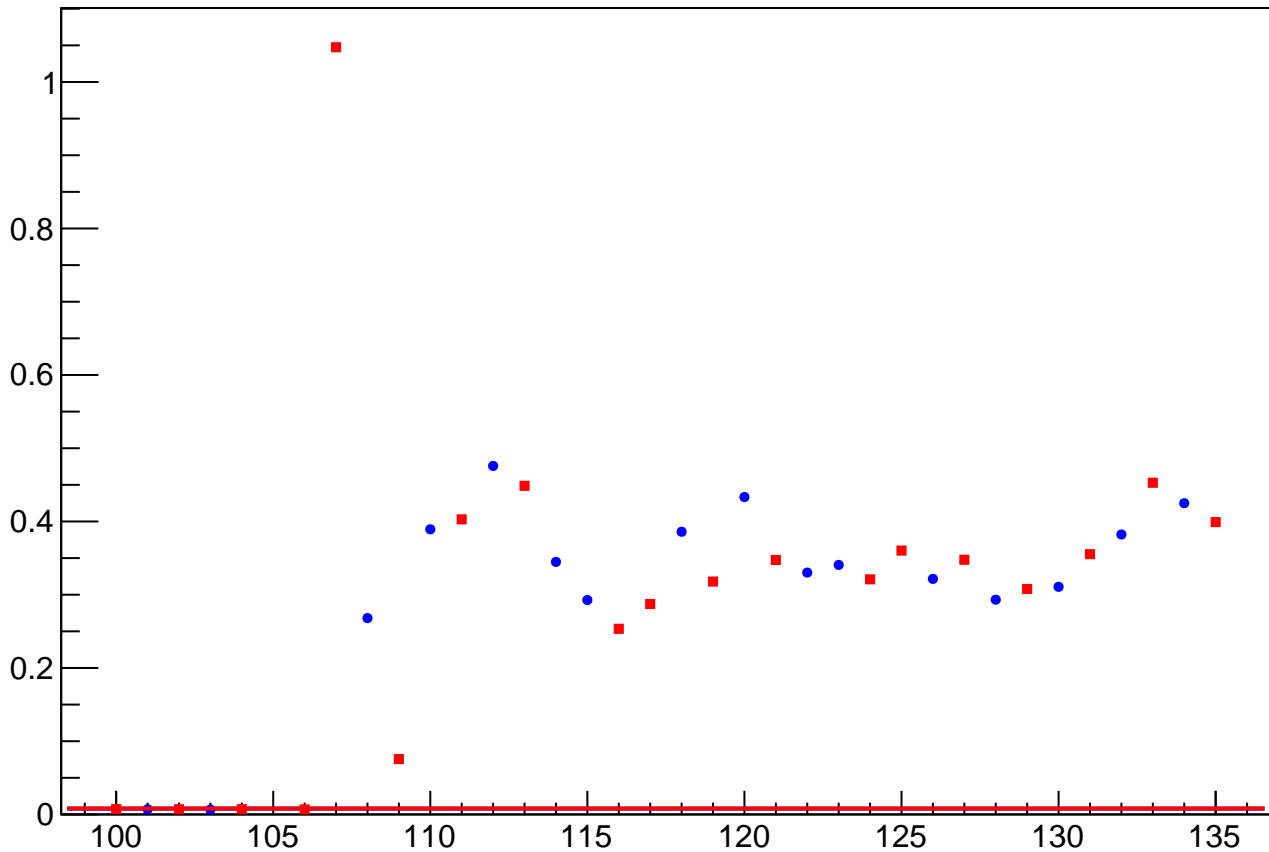
377.802+/-0.000  $\chi^2/\text{NDF}$ : 104800072986

Right Out: 377.294+/-0.000  $\chi^2/\text{NDF}$ : 8265014406671.5/18

377.294+/-0.000  $\chi^2/\text{NDF}$ : 8265014406671.5/18

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

# yield\_cav4dQ\_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 8227583.6/15

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

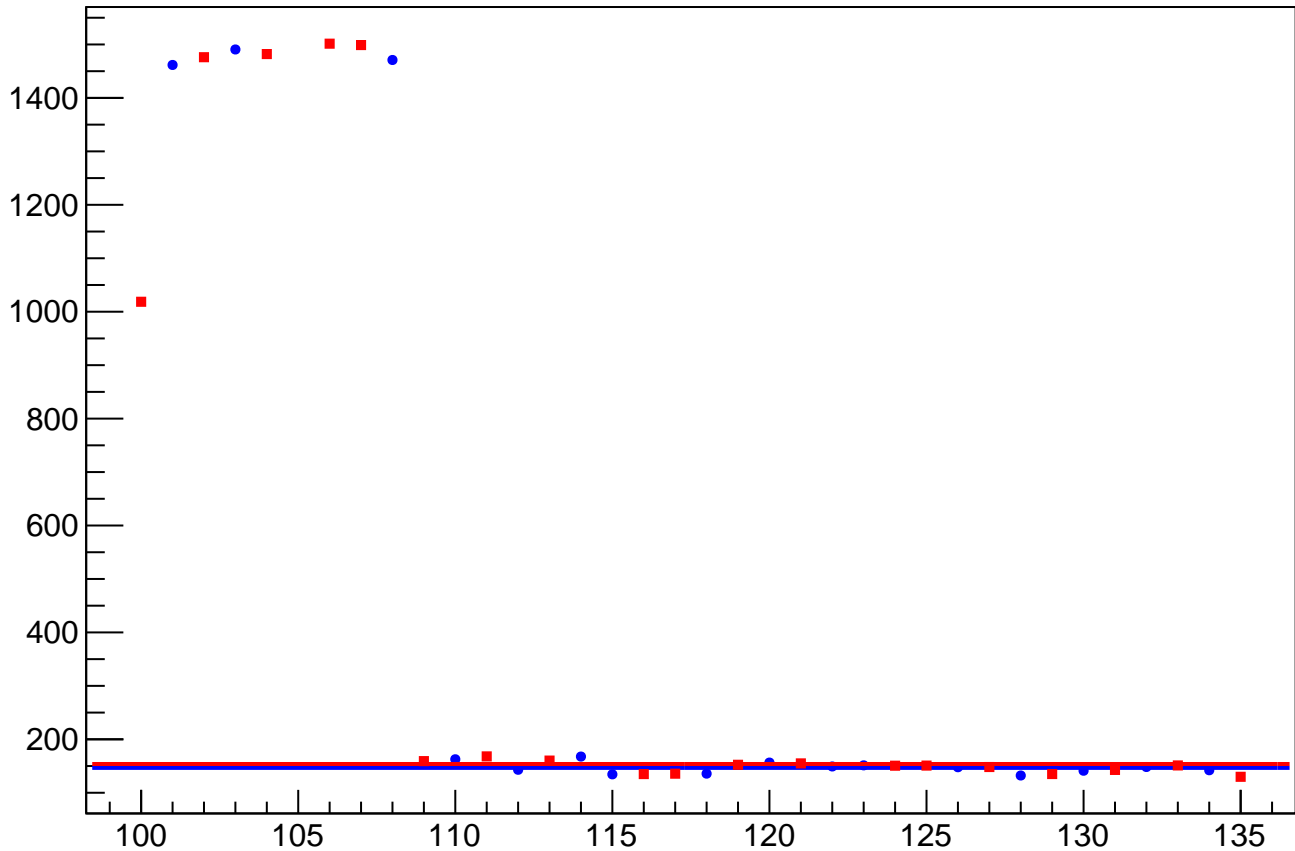
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.008+/-0.000  $\chi^2/\text{NDF}$ : 8227583.6/15

0.008+/-0.000  $\chi^2/\text{NDF}$ : 17458580.8/34

0.008+/-0.000  $\chi^2/\text{NDF}$ : 9230606.7/18

# yield\_bcm0l02\_mean vs Slug, Sign Corrected



Right In: 146.538+/-0.000  $\chi^2$ /NDF: 24358175712.7/15

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

146.538+/-0.000  $\chi^2$ /NDF: 24358175712.7/15

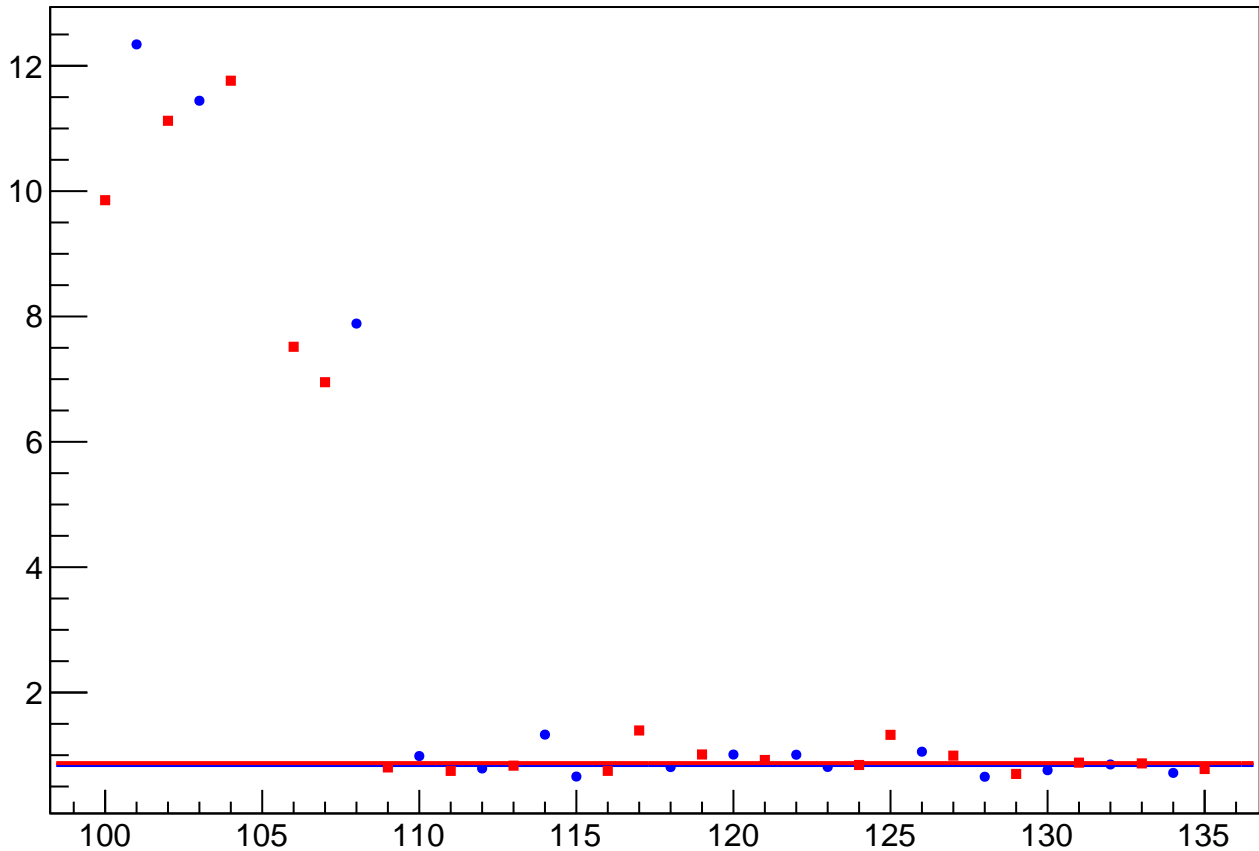
150.418+/-0.000  $\chi^2$ /NDF: 58231837036.9

Right Out: 153.822+/-0.000  $\chi^2$ /NDF: 33744203897.9/18

153.822+/-0.000  $\chi^2$ /NDF: 33744203897.9/18

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

# yield\_bcm0l02\_rms vs Slug, Sign Corrected



Right In: 0.843+/-0.000  $\chi^2/\text{NDF}$ : 2662197.7/15

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

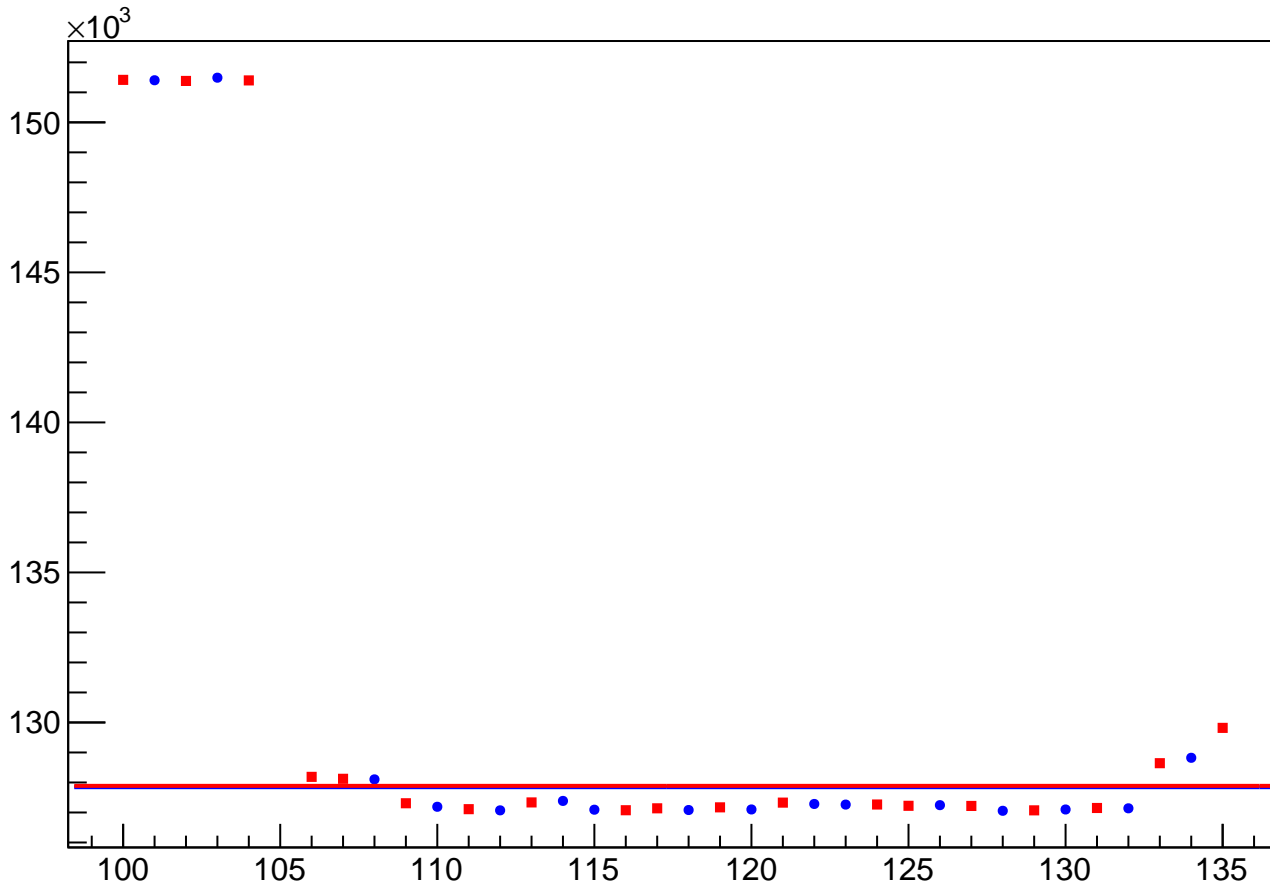
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.843+/-0.000  $\chi^2/\text{NDF}$ : 2662197.7/15

0.859+/-0.000  $\chi^2/\text{NDF}$ : 5466225.7/34

0.874+/-0.000  $\chi^2/\text{NDF}$ : 2799352.2/18

# yield\_bpm2i01WS\_mean vs Slug, Sign Corrected



Right In: 127843.231 $\pm$ 0.057  $\chi^2$ /NDF: 4208167535.7/15

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

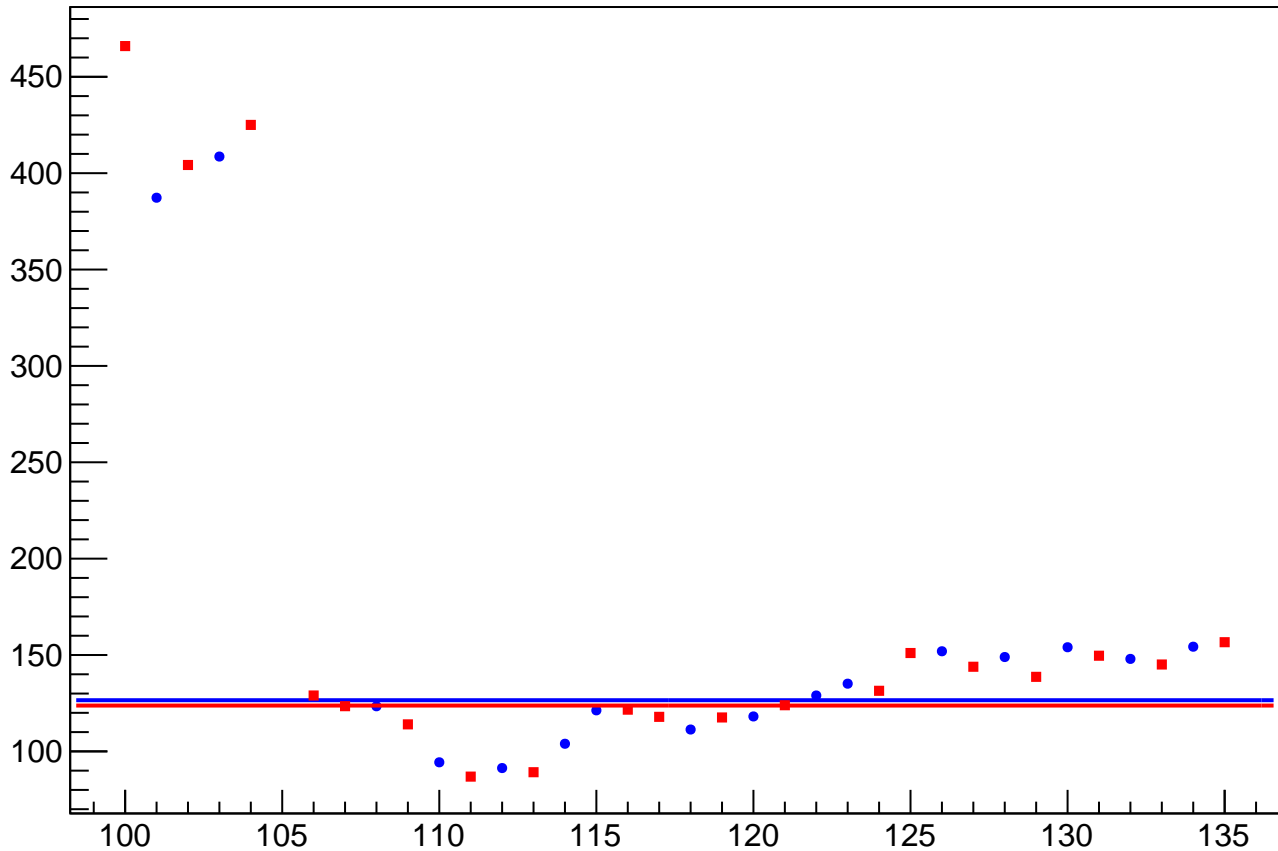
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

127843.231 $\pm$ 0.057  $\chi^2$ /NDF: 4208167535.7/15

127868.102 $\pm$ 0.038  $\chi^2$ /NDF: 795125925

127887.555 $\pm$ 0.051  $\chi^2$ /NDF: 3742755058.3/18

# yield\_bpm2i01WS\_rms vs Slug, Sign Corrected



Right In: 126.546+/-0.040  $\chi^2$ /NDF: 1406918.1/15

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

Right Out: 123.776+/-0.036  $\chi^2$ /NDF: 1506479.6/18

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

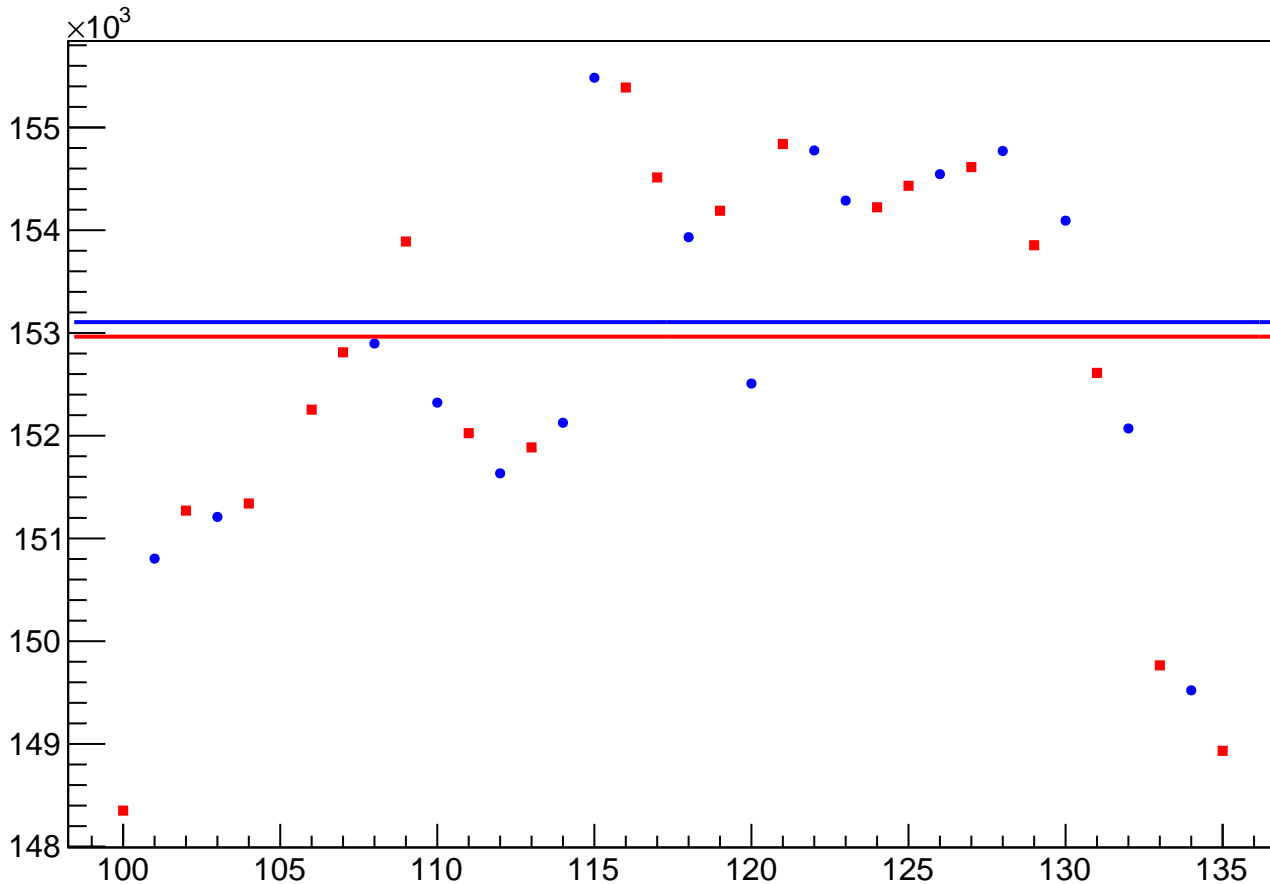
126.546+/-0.040  $\chi^2$ /NDF: 1406918.1/15

124.992+/-0.027  $\chi^2$ /NDF: 2916027.4/34

123.776+/-0.036  $\chi^2$ /NDF: 1506479.6/18



# yield\_bpm0i07WS\_mean vs Slug, Sign Corrected



Right In: 153105.446 $\pm$ 0.078  $\chi^2$ /NDF: 339207385.8/15

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

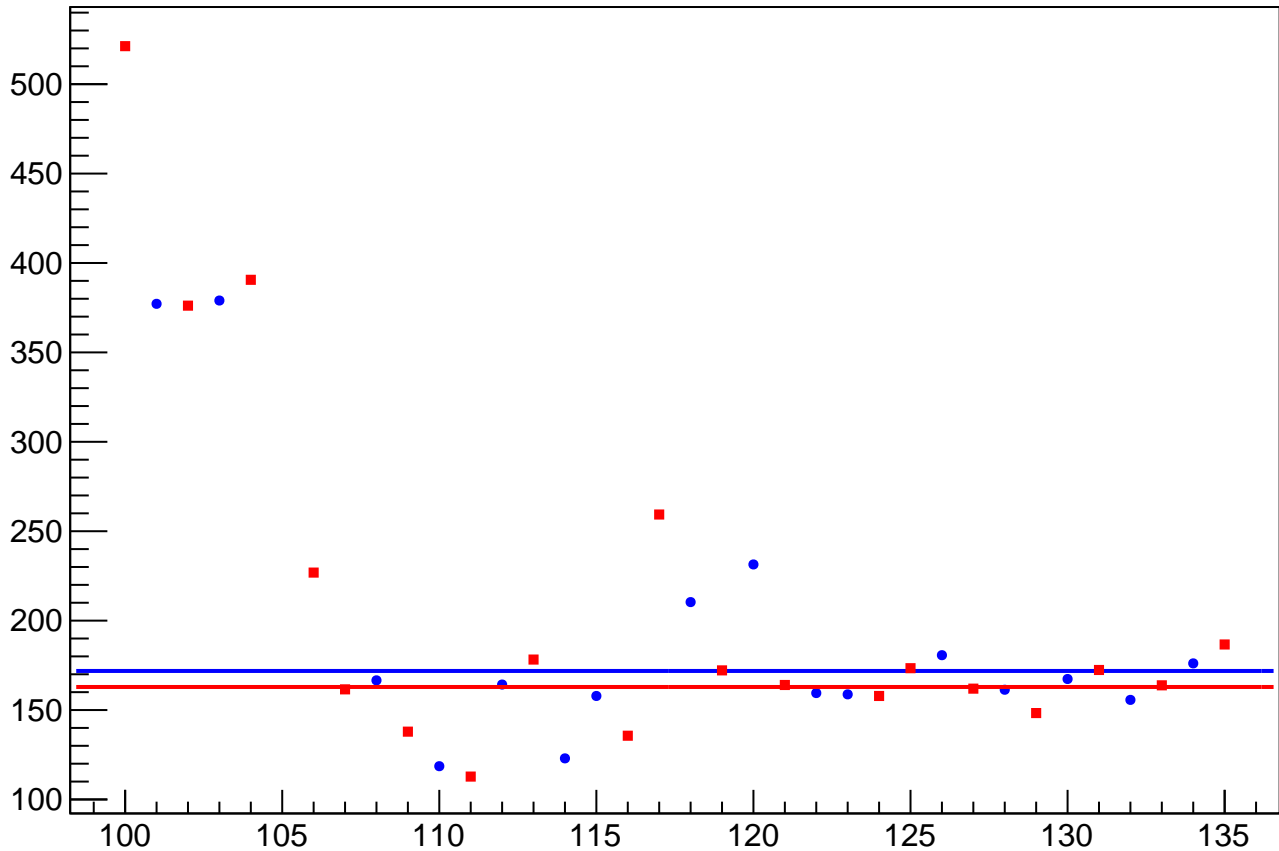
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

153105.446 $\pm$ 0.078  $\chi^2$ /NDF: 339207385.8/15

153024.146 $\pm$ 0.051  $\chi^2$ /NDF: 997666124.

152964.092 $\pm$ 0.067  $\chi^2$ /NDF: 656567186.3/18

# yield\_bpm0i07WS\_rms vs Slug, Sign Corrected



Right In: 171.857+/-0.055  $\chi^2$ /NDF: 921339.3/15

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

Right Out: 162.898+/-0.047  $\chi^2$ /NDF: 1041026.4/18

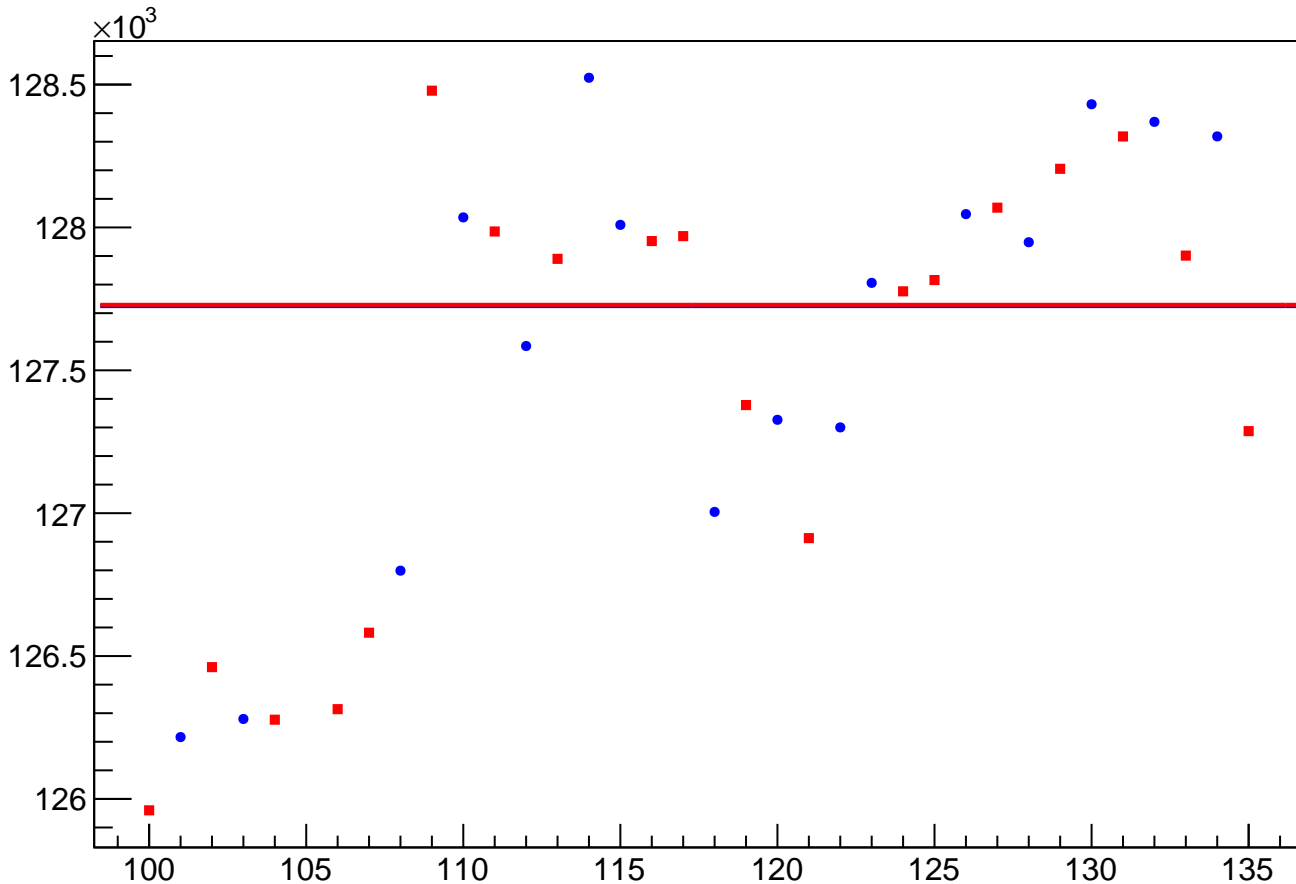
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

171.857+/-0.055  $\chi^2$ /NDF: 921339.3/15

166.704+/-0.036  $\chi^2$ /NDF: 1977565.0/34

162.898+/-0.047  $\chi^2$ /NDF: 1041026.4/18

# yield\_bpm0l01WS\_mean vs Slug, Sign Corrected



Right In: 127724.629 $\pm$ 0.063  $\chi^2$ /NDF: 95091159.9/15

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

127724.629 $\pm$ 0.063  $\chi^2$ /NDF: 95091159.9/15

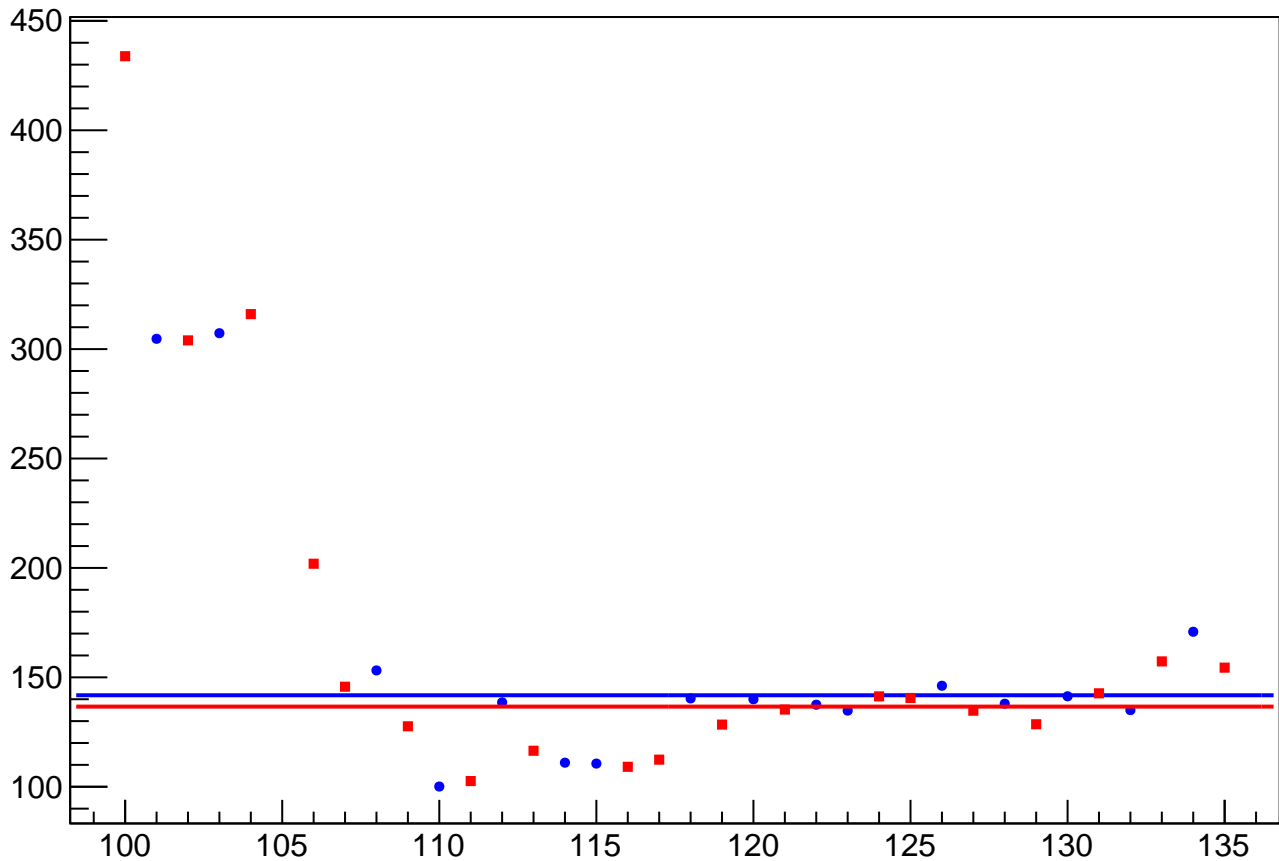
127727.313 $\pm$ 0.041  $\chi^2$ /NDF: 207770777.

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, Sign Corrected



Right In: 141.810+/-0.044  $\chi^2$ /NDF: 835709.8/15

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

Right Out: 136.633+/-0.039  $\chi^2$ /NDF: 959934.9/18

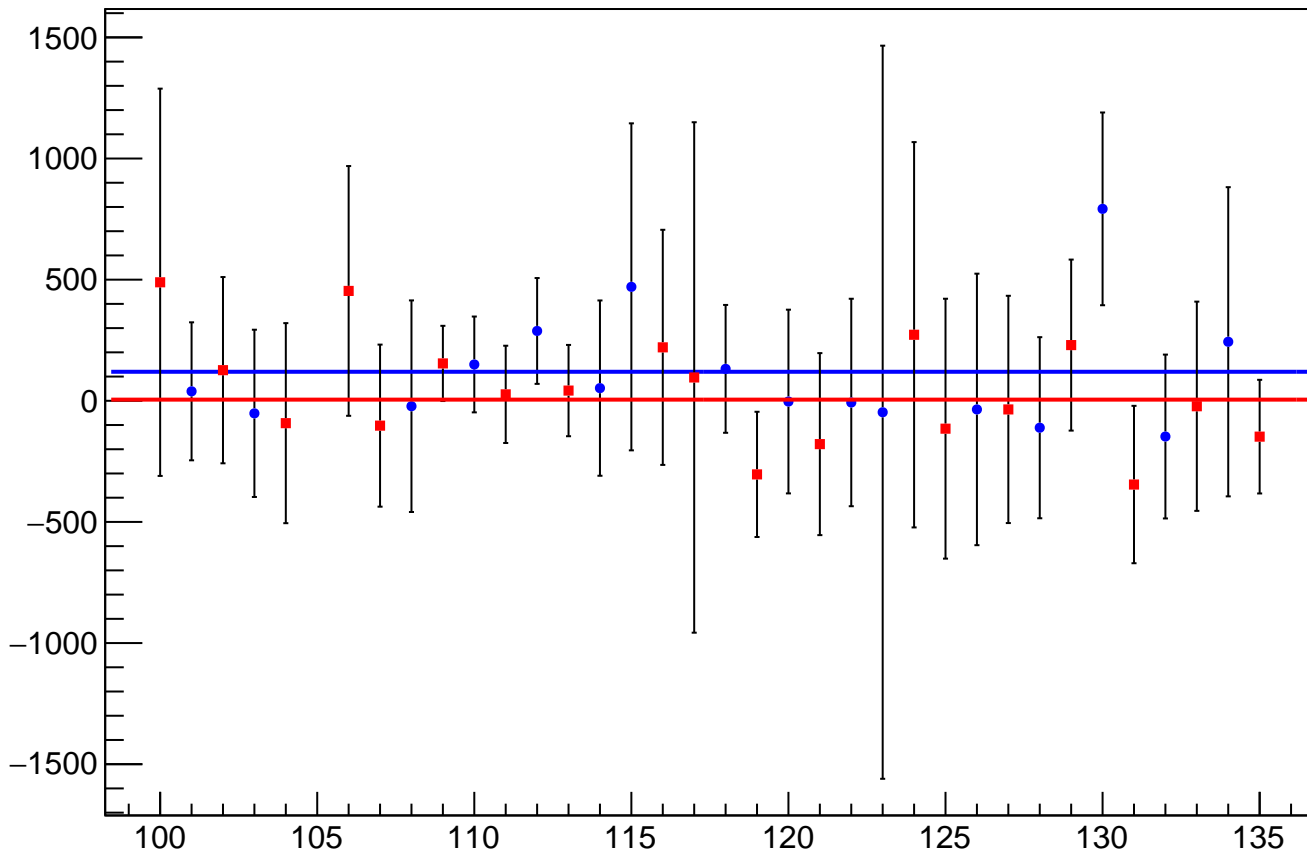
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

141.810+/-0.044  $\chi^2$ /NDF: 835709.8/15

138.884+/-0.029  $\chi^2$ /NDF: 1803366.5/34

136.633+/-0.039  $\chi^2$ /NDF: 959934.9/18

# asym\_bcm\_an\_ds\_mean vs Slug, Sign Corrected



Right In: 119.786+/-85.312  $\chi^2$ /NDF: 5.5/15

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

Right Out: 4.795+/-70.842  $\chi^2$ /NDF: 6.4/18

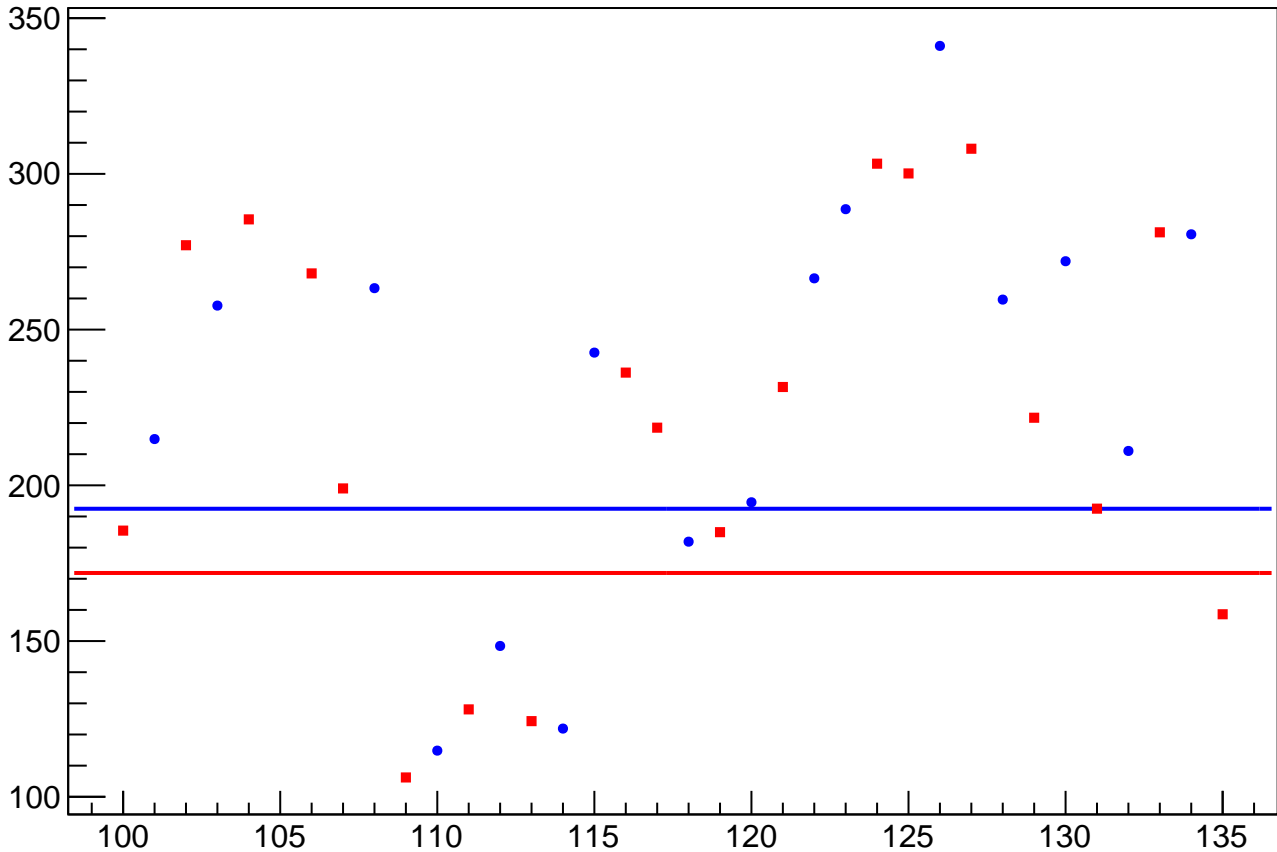
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

119.786+/-85.312  $\chi^2$ /NDF: 5.5/15

51.726+/-54.501  $\chi^2$ /NDF: 13.0/34

4.795+/-70.842  $\chi^2$ /NDF: 6.4/18

# asym\_bcm\_an\_ds\_rms vs Slug, Sign Corrected



Right In: 192.481+/-0.060  $\chi^2/\text{NDF}$ : 1013536.9/15

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

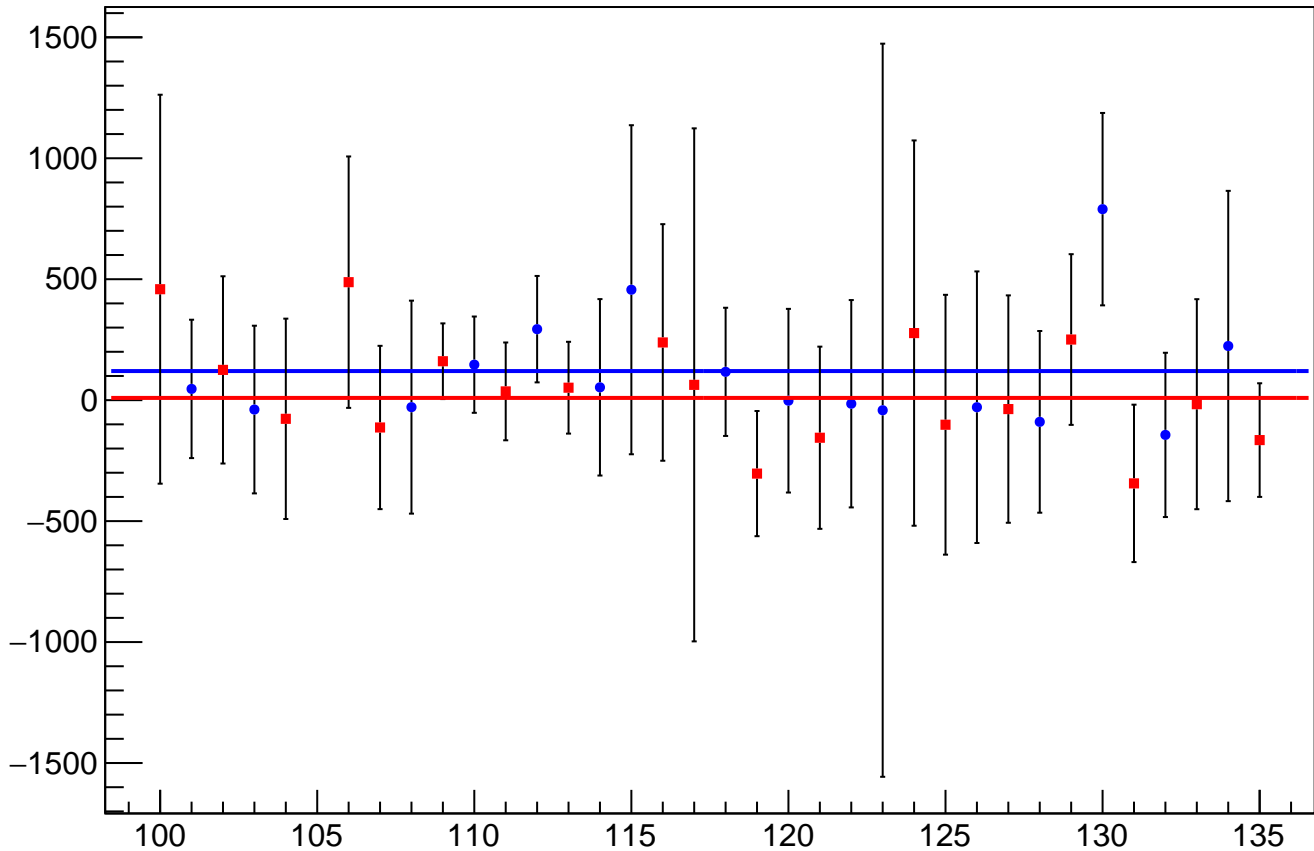
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

192.481+/-0.060  $\chi^2/\text{NDF}$ : 1013536.9/15

180.276+/-0.039  $\chi^2/\text{NDF}$ : 2662857.6/34

171.861+/-0.050  $\chi^2/\text{NDF}$ : 1580166.7/18

# asym\_bcm\_an\_ds3\_mean vs Slug, Sign Corrected



Right In: 120.306+/-85.735  $\chi^2$ /NDF: 5.4/15

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

Right Out: 9.284+/-71.216  $\chi^2$ /NDF: 6.7/18

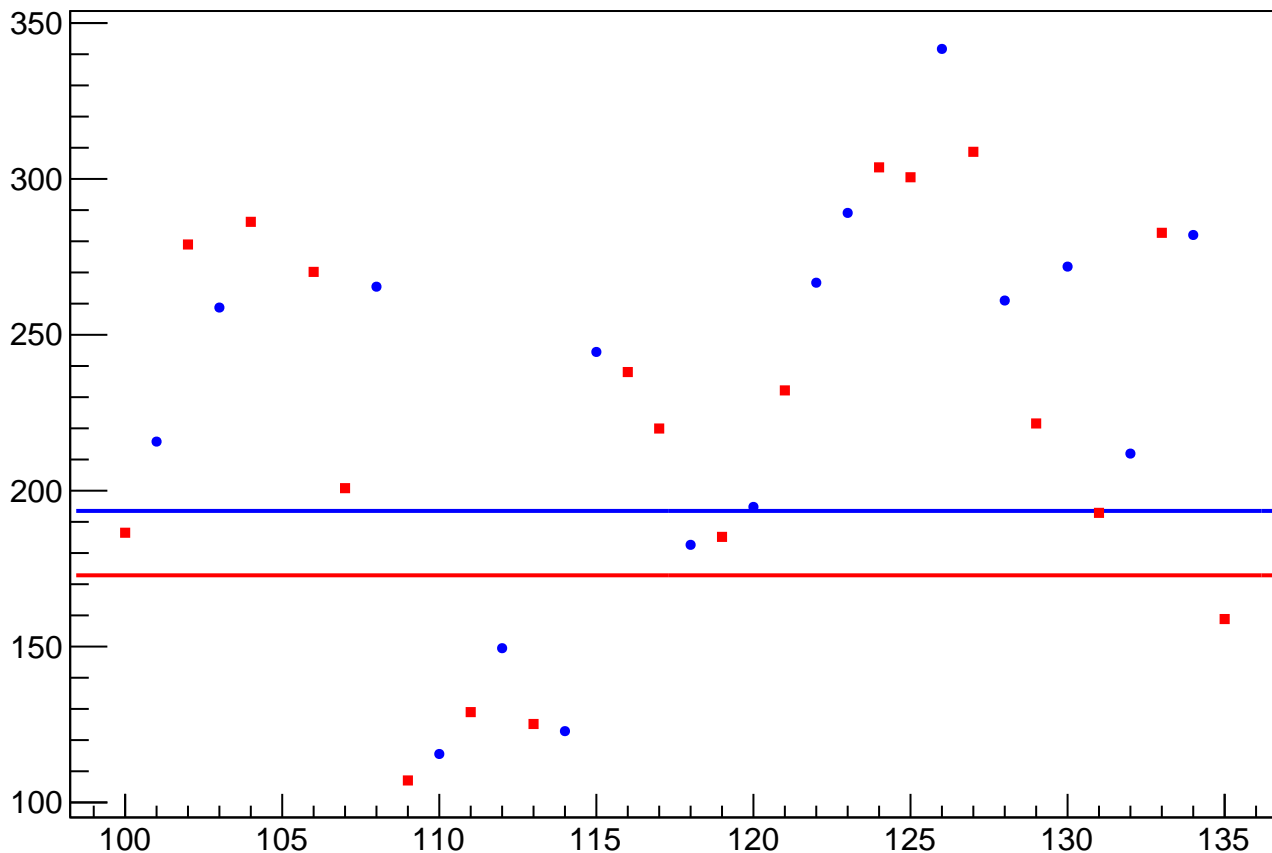
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

120.306+/-85.735  $\chi^2$ /NDF: 5.4/15

54.612+/-54.782  $\chi^2$ /NDF: 13.0/34

9.284+/-71.216  $\chi^2$ /NDF: 6.7/18

# asym\_bcm\_an\_ds3\_rms vs Slug, Sign Corrected



Right In: 193.511+/-0.061  $\chi^2/\text{NDF}$ : 1004898.3/15

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

Right Out: 172.855+/-0.050  $\chi^2/\text{NDF}$ : 1567796.9/18

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

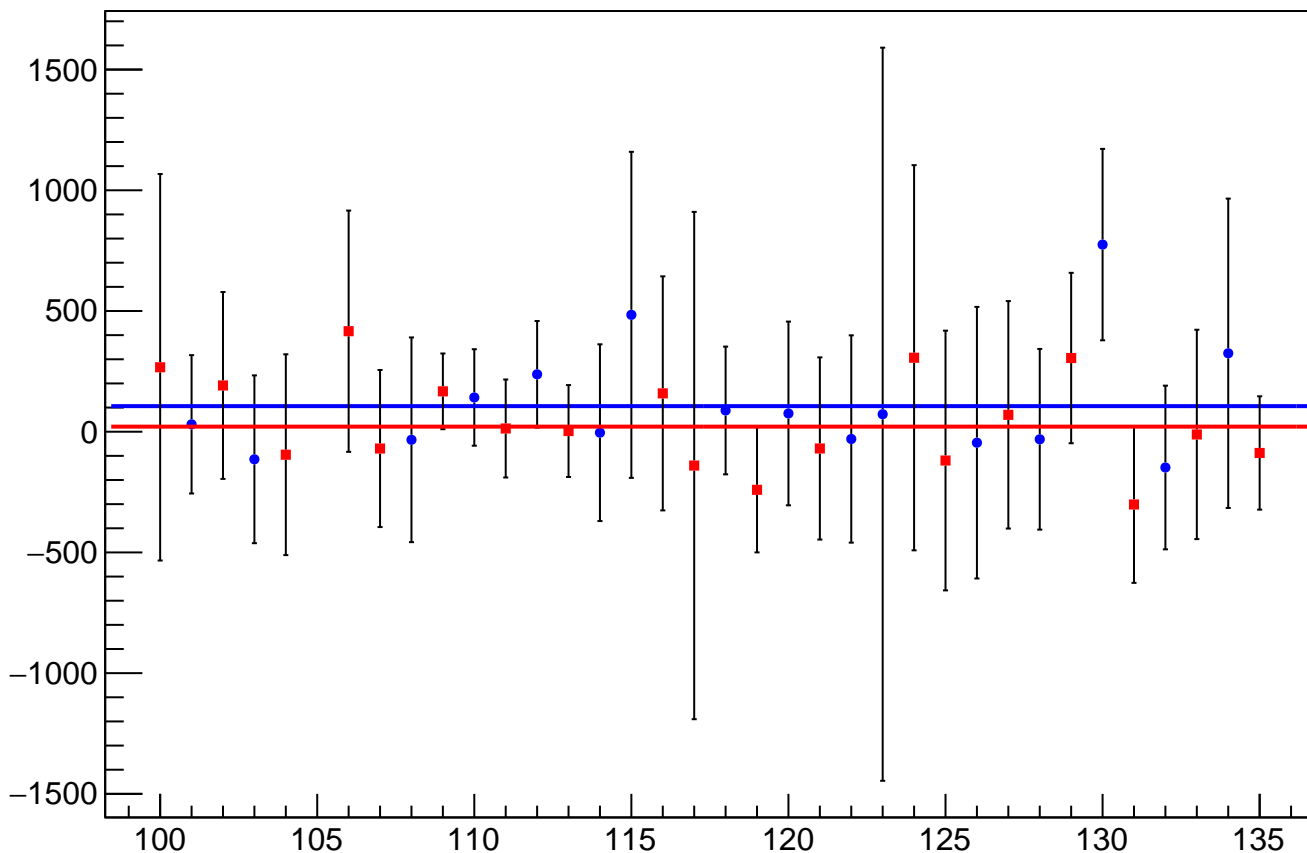
193.511+/-0.061  $\chi^2/\text{NDF}$ : 1004898.3/15

181.288+/-0.039  $\chi^2/\text{NDF}$ : 2641394.8/34

172.855+/-0.050  $\chi^2/\text{NDF}$ : 1567796.9/18



# asym\_bcm\_an\_us\_mean vs Slug, Sign Corrected



Right In: 105.943 $\pm$ 85.718  $\chi^2$ /NDF: 5.2/15

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

Right Out: 21.059 $\pm$ 71.132  $\chi^2$ /NDF: 5.2/18

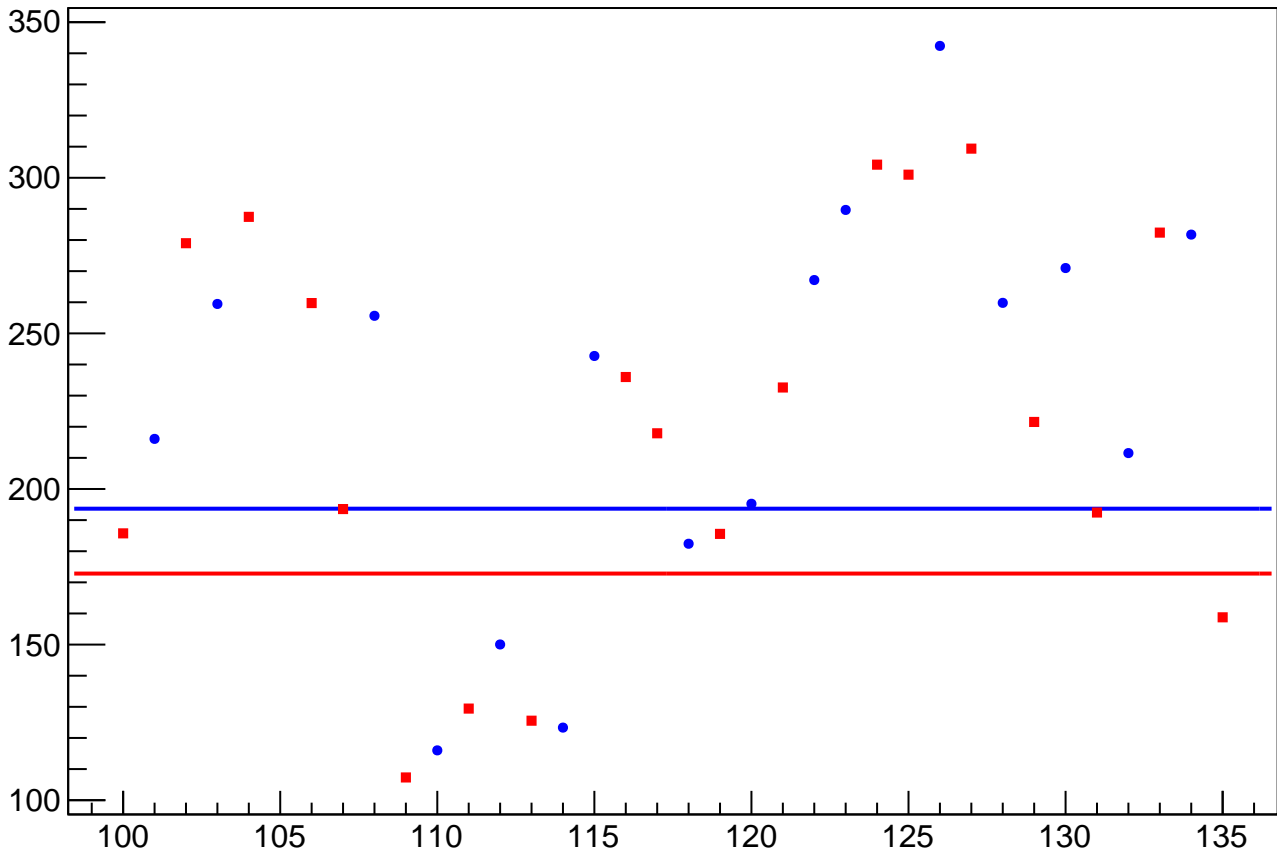
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

105.943 $\pm$ 85.718  $\chi^2$ /NDF: 5.2/15

55.675 $\pm$ 54.739  $\chi^2$ /NDF: 11.0/34

21.059 $\pm$ 71.132  $\chi^2$ /NDF: 5.2/18

# asym\_bcm\_an\_us\_rms vs Slug, Sign Corrected



Right In: 193.670 $\pm$ 0.061  $\chi^2$ /NDF: 983239.2/15

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

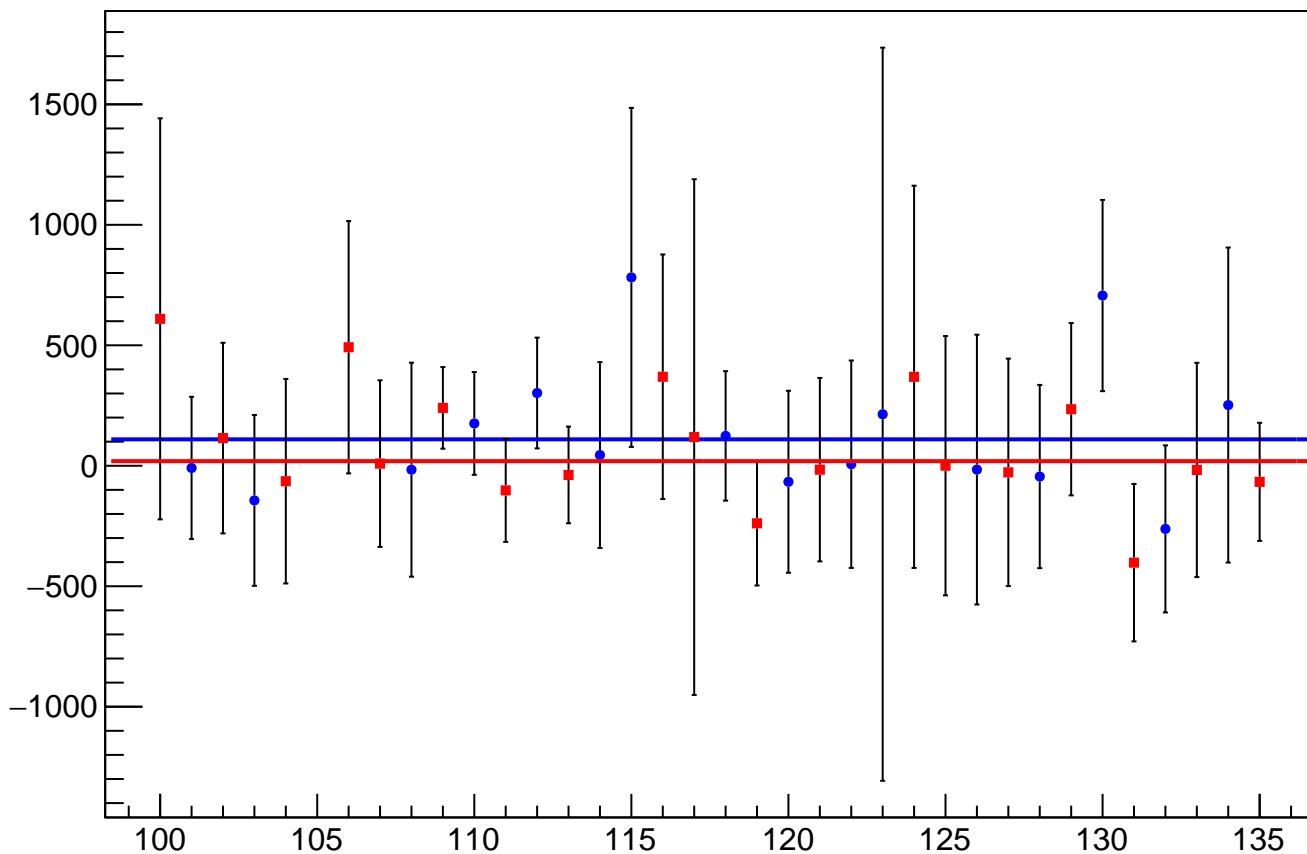
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

193.670 $\pm$ 0.061  $\chi^2$ /NDF: 983239.2/15

181.324 $\pm$ 0.039  $\chi^2$ /NDF: 2597907.9/34

172.822 $\pm$ 0.050  $\chi^2$ /NDF: 1544607.2/18

# asym\_bcm\_dg\_us\_mean vs Slug, Sign Corrected



Right In: 109.717 $\pm$ 88.404  $\chi^2$ /NDF: 6.4/15

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

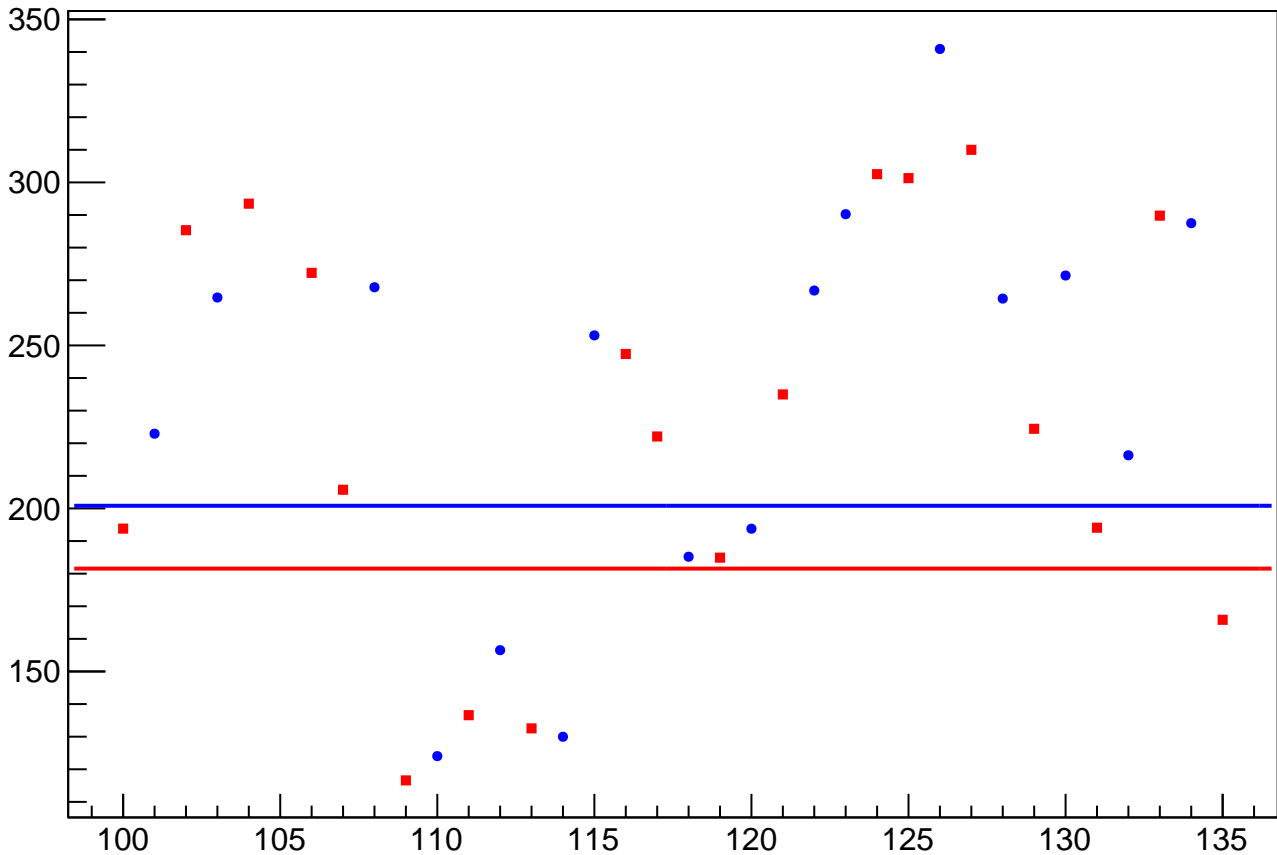
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

109.717 $\pm$ 88.404  $\chi^2$ /NDF: 6.4/15

56.593 $\pm$ 56.795  $\chi^2$ /NDF: 14.4/34

19.257 $\pm$ 74.113  $\chi^2$ /NDF: 7.4/18

# asym\_bcm\_dg\_us\_rms vs Slug, Sign Corrected



Right In: 200.820+/-0.063  $\chi^2$ /NDF: 878708.5/15

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

Right Out: 181.552+/-0.052  $\chi^2$ /NDF: 1377483.2/18

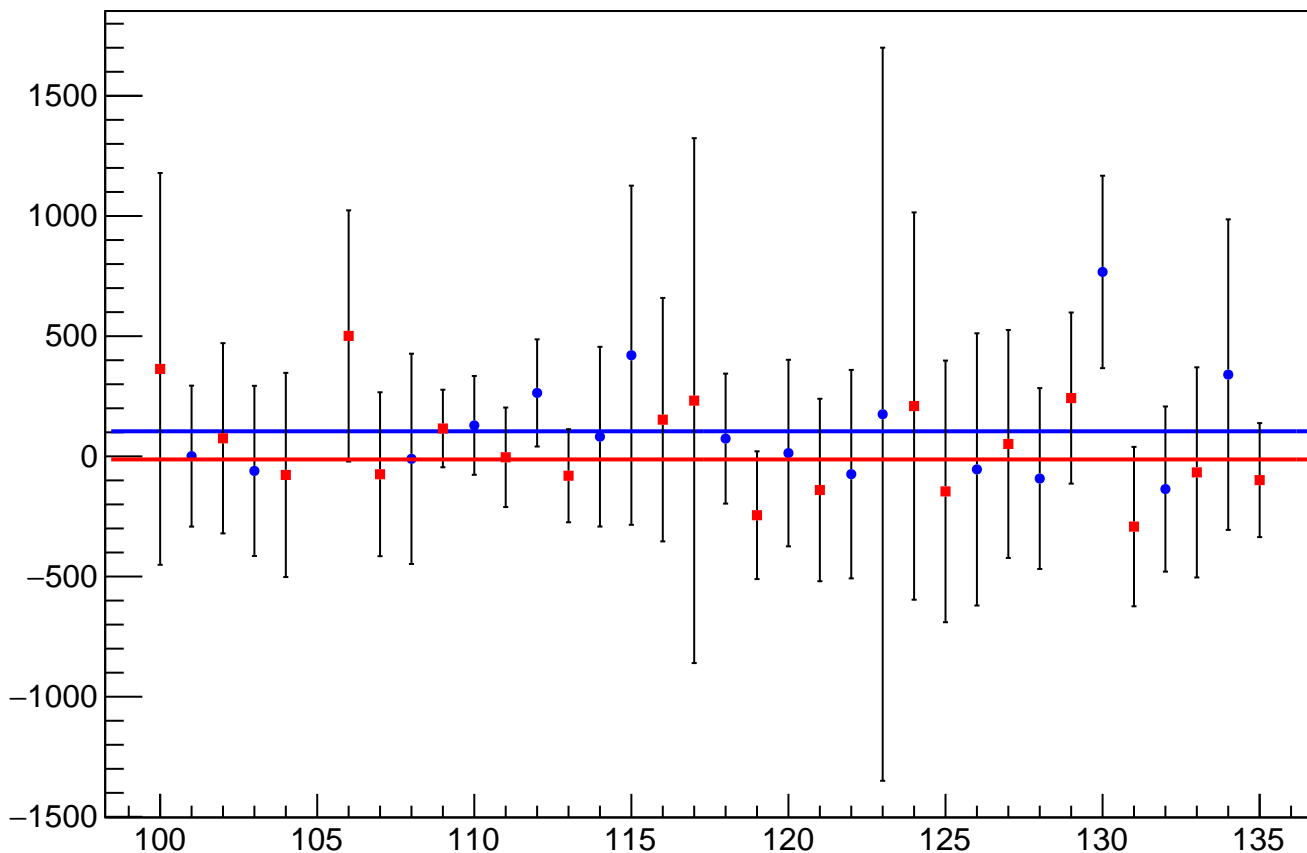
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

200.820+/-0.063  $\chi^2$ /NDF: 878708.5/15

189.505+/-0.040  $\chi^2$ /NDF: 2311984.9/34

181.552+/-0.052  $\chi^2$ /NDF: 1377483.2/18

# asym\_bcm\_dg\_ds\_mean vs Slug, Sign Corrected



Right In: 104.312 $\pm$ 87.328  $\chi^2$ /NDF: 5.1/15

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

Right Out: -12.828 $\pm$ 72.683  $\chi^2$ /NDF: 4.6/18

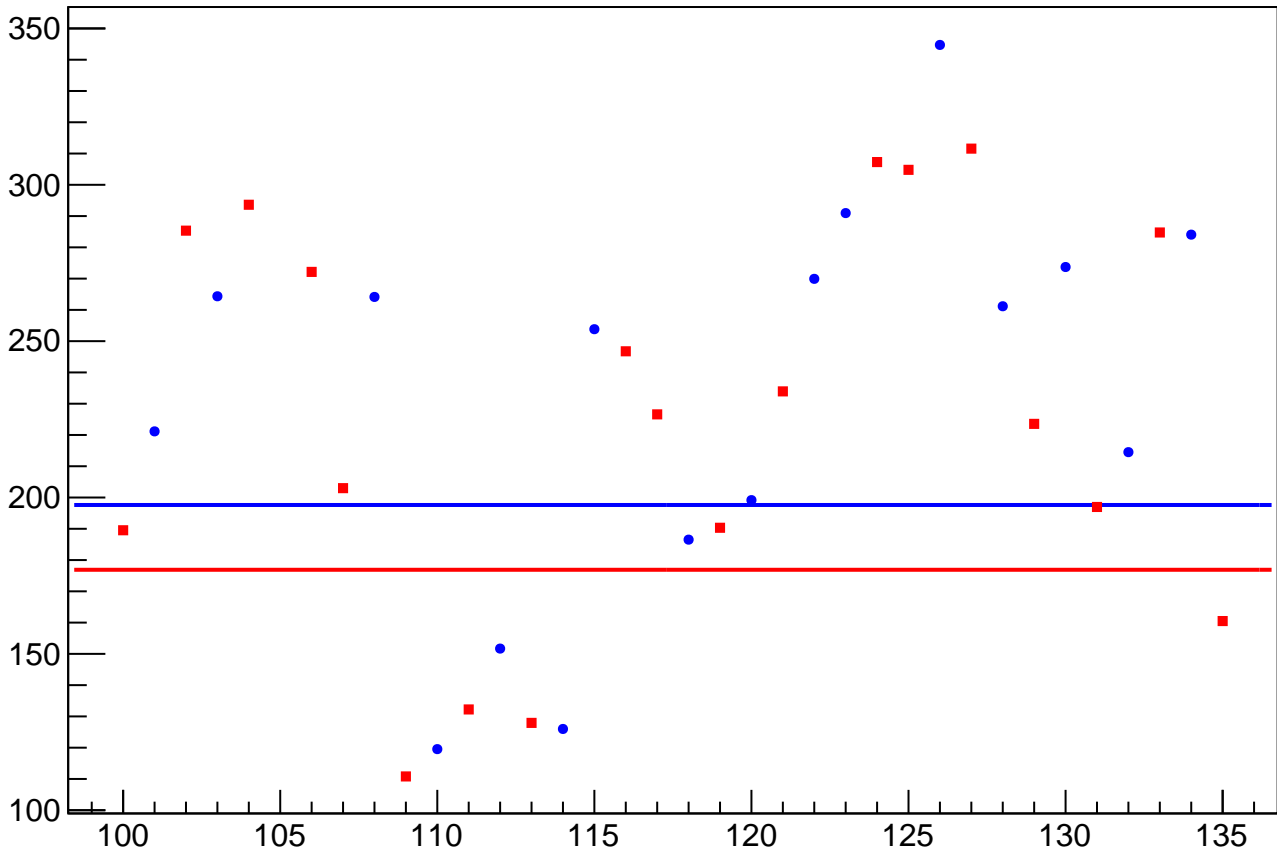
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

104.312 $\pm$ 87.328  $\chi^2$ /NDF: 5.1/15

35.110 $\pm$ 55.865  $\chi^2$ /NDF: 10.8/34

-12.828 $\pm$ 72.683  $\chi^2$ /NDF: 4.6/18

# asym\_bcm\_dg\_ds\_rms vs Slug, Sign Corrected



Right In: 197.613+/-0.062  $\chi^2/\text{NDF}$ : 961010.2/15

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

Right Out: 176.892+/-0.051  $\chi^2/\text{NDF}$ : 1526031.9/18

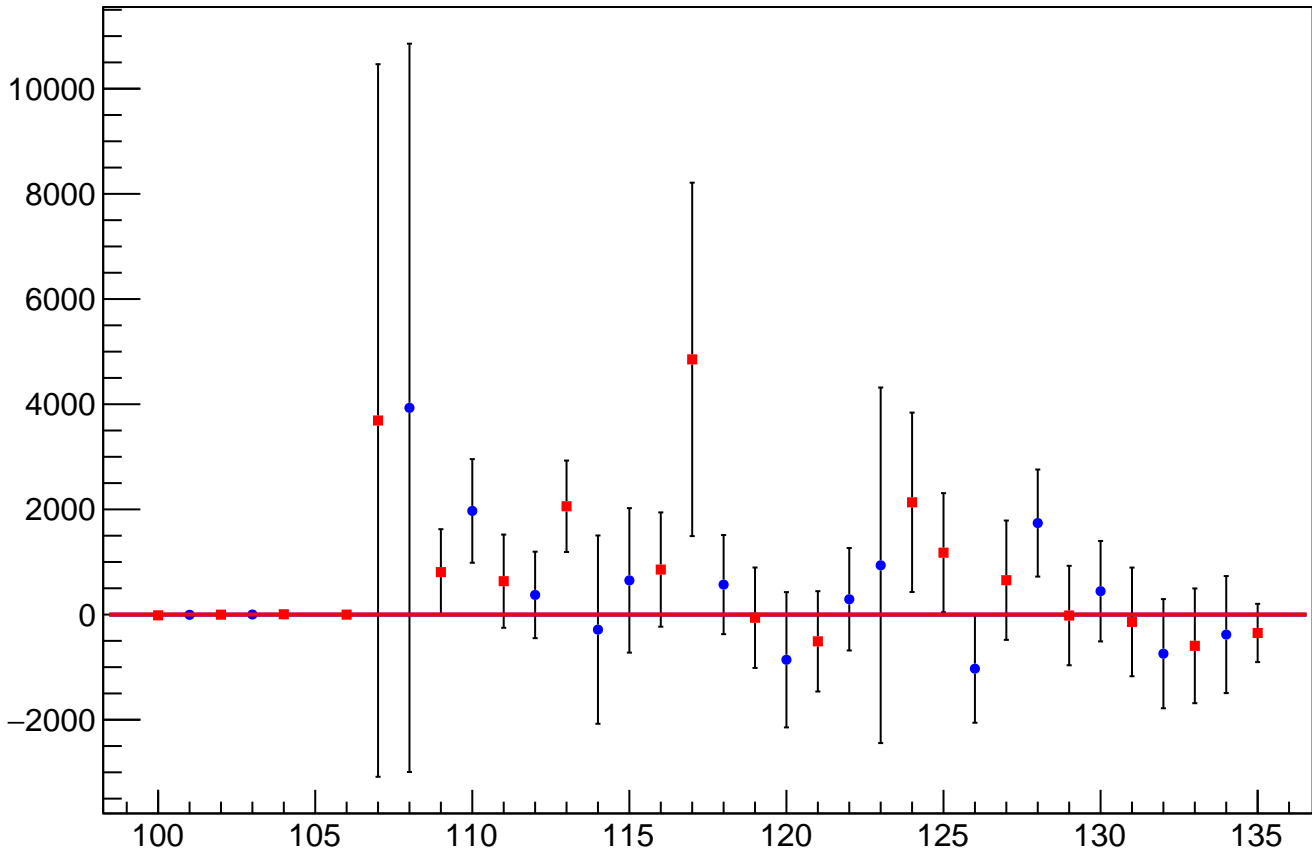
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

197.613+/-0.062  $\chi^2/\text{NDF}$ : 961010.2/15

185.372+/-0.040  $\chi^2/\text{NDF}$ : 2553565.8/34

176.892+/-0.051  $\chi^2/\text{NDF}$ : 1526031.9/18

# asym\_cav4bQ\_mean vs Slug, Sign Corrected



Right In:  $-1.502 \pm 2.251$   $\chi^2/\text{NDF}: 11.8/15$

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

Right Out:  $0.737 \pm 2.111$   $\chi^2/\text{NDF}: 20.0/18$

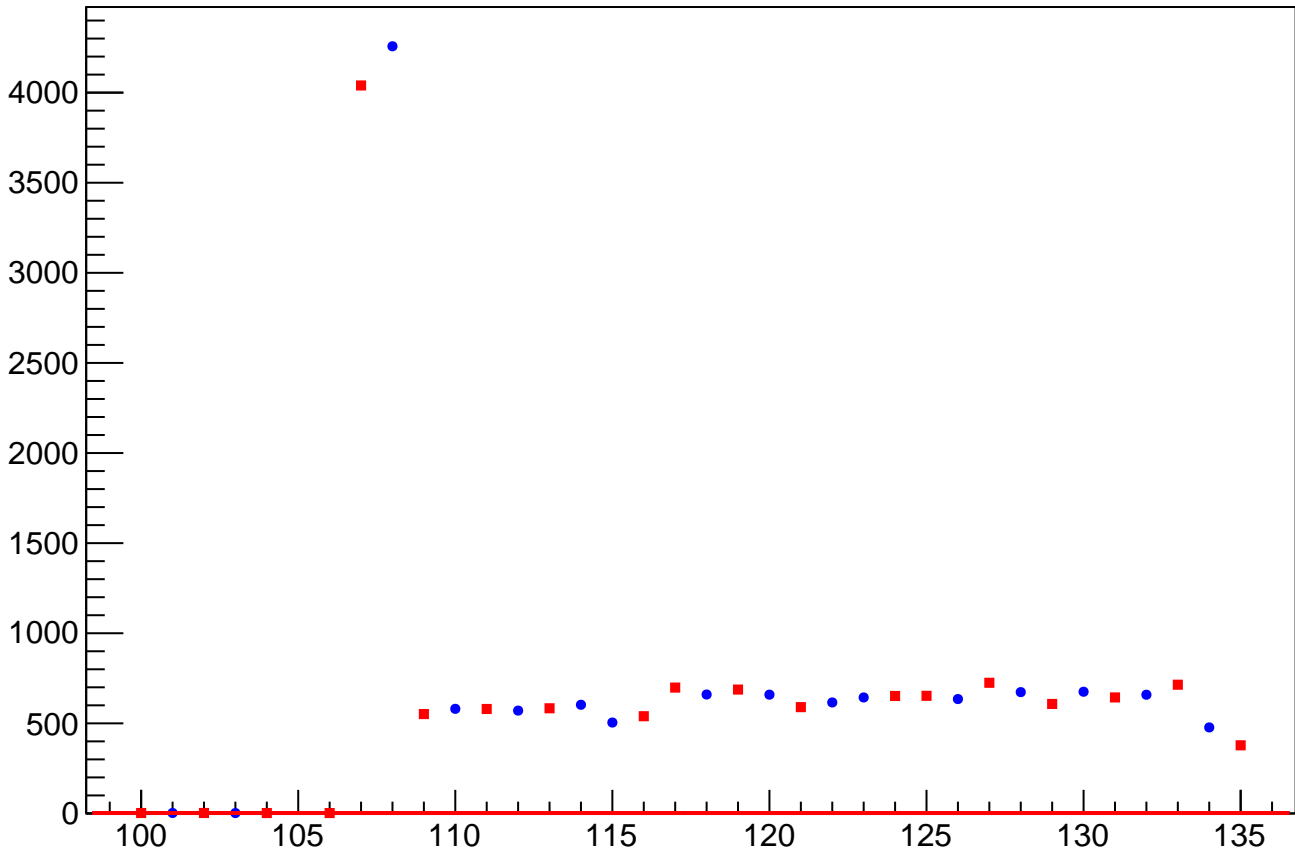
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1.502 \pm 2.251$   $\chi^2/\text{NDF}: 11.8/15$

$-0.310 \pm 1.540$   $\chi^2/\text{NDF}: 32.4/34$

$0.737 \pm 2.111$   $\chi^2/\text{NDF}: 20.0/18$

# asym\_cav4bQ\_rms vs Slug, Sign Corrected



Right In: 2.445 $\pm$ 0.002  $\chi^2$ /NDF: 9047452.9/15

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

Right Out: 2.435 $\pm$ 0.001  $\chi^2$ /NDF: 10854937.0/18

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

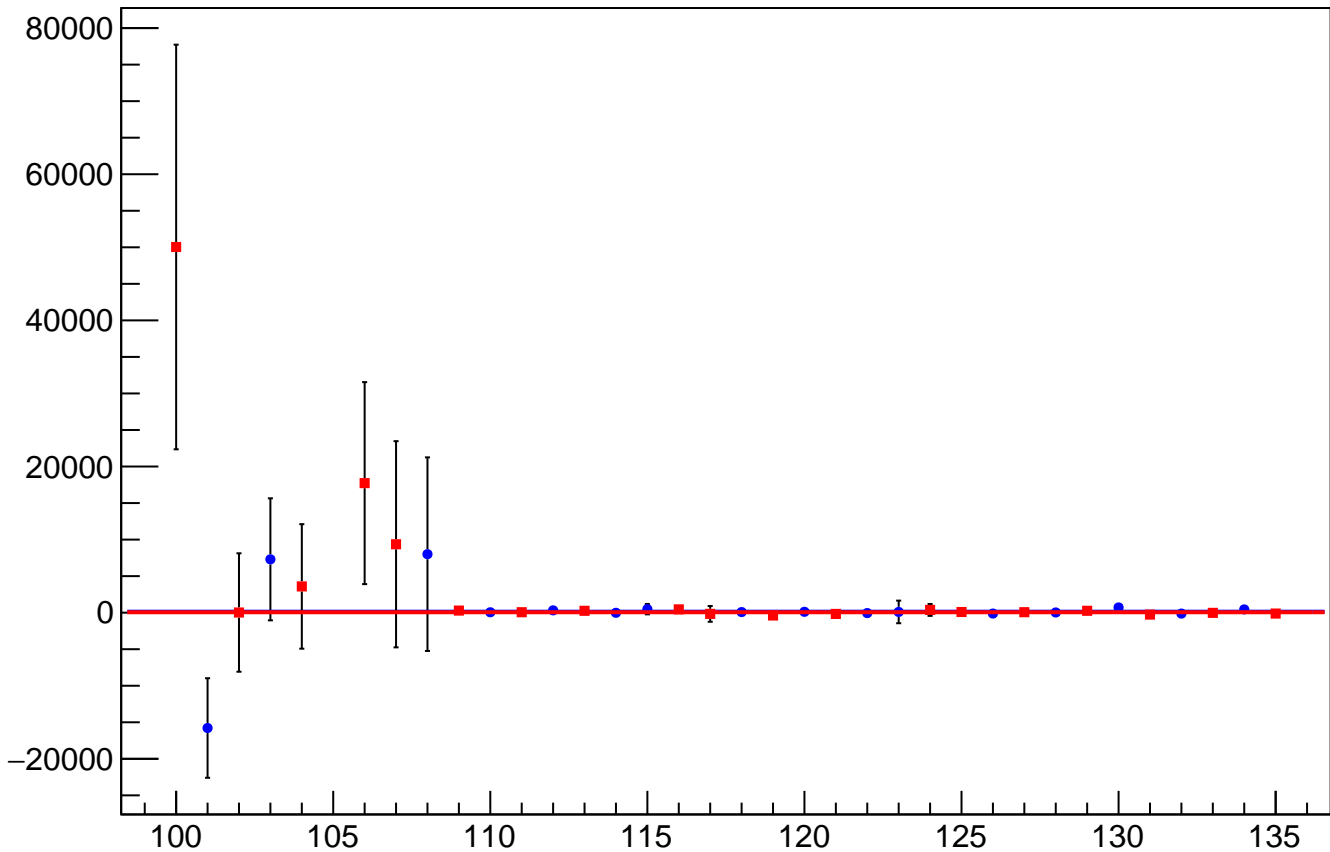
2.445 $\pm$ 0.002  $\chi^2$ /NDF: 9047452.9/15

2.439 $\pm$ 0.001  $\chi^2$ /NDF: 19902411.9/34

2.435 $\pm$ 0.001  $\chi^2$ /NDF: 10854937.0/18



# asym\_cav4cQ\_mean vs Slug, Sign Corrected



Right In: 133.873+/-99.568  $\chi^2$ /NDF: 11.0/15

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

Right Out: 58.534+/-85.655  $\chi^2$ /NDF: 12.8/18

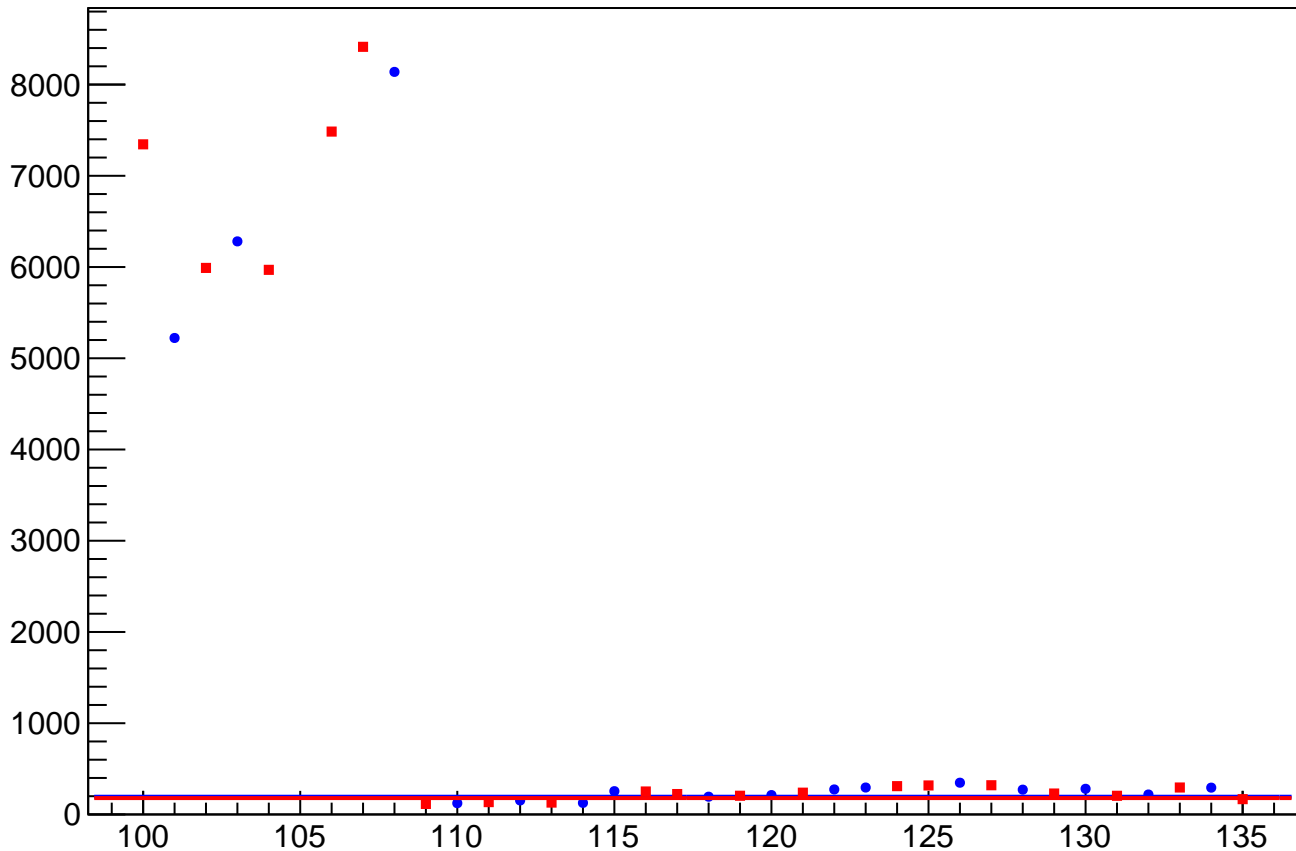
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

133.873+/-99.568  $\chi^2$ /NDF: 11.0/15

90.577+/-64.934  $\chi^2$ /NDF: 24.1/34

58.534+/-85.655  $\chi^2$ /NDF: 12.8/18

# asym\_cav4cQ\_rms vs Slug, Sign Corrected



Right In: 194.247+/-0.070  $\chi^2$ /NDF: 3682435.2/15

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

Right Out: 179.436+/-0.061  $\chi^2$ /NDF: 4318974.7/18

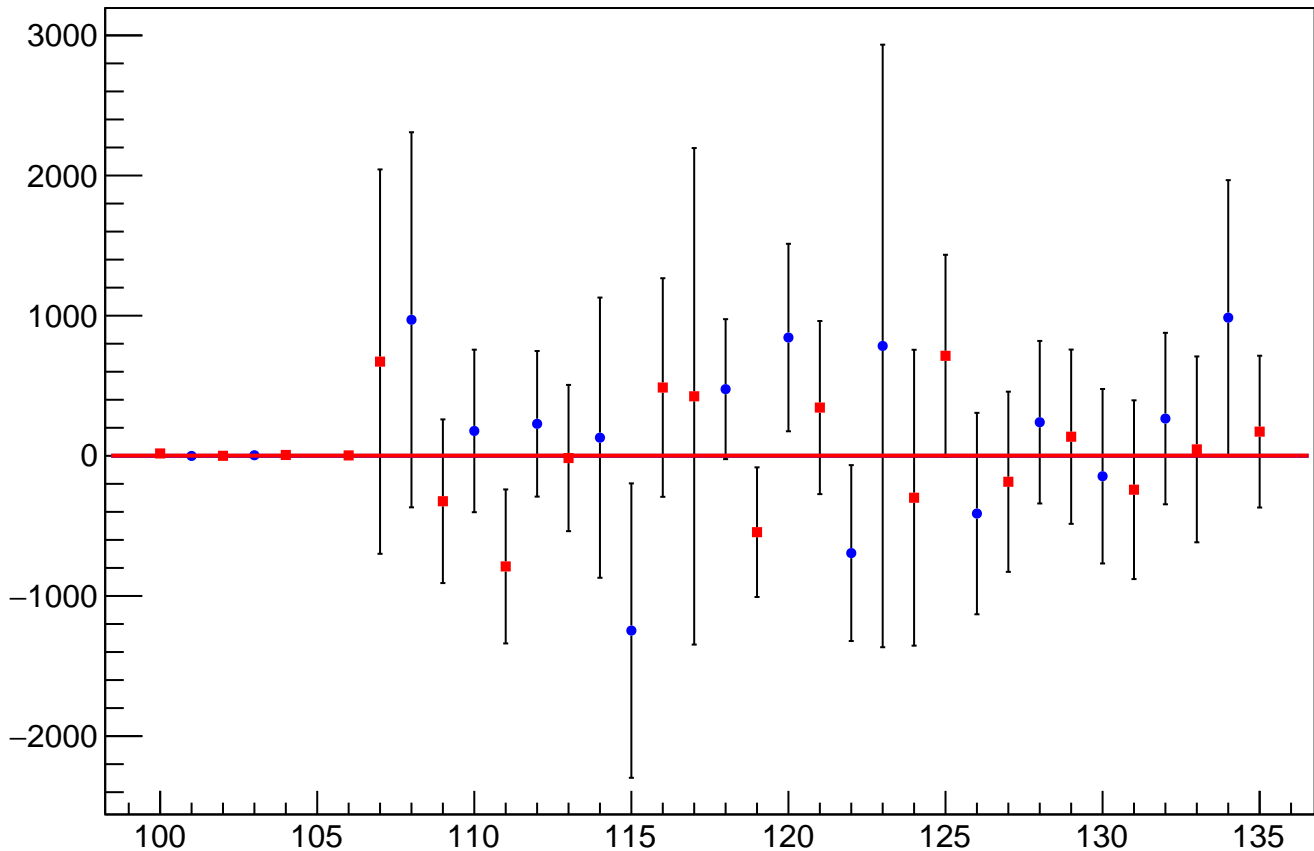
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

194.247+/-0.070  $\chi^2$ /NDF: 3682435.2/15

185.735+/-0.046  $\chi^2$ /NDF: 8026841.3/34

179.436+/-0.061  $\chi^2$ /NDF: 4318974.7/18

# asym\_cav4dQ\_mean vs Slug, Sign Corrected



Right In:  $-0.147 \pm 1.737$   $\chi^2/\text{NDF}$ : 8.7/15

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

Right Out:  $1.326 \pm 1.623$   $\chi^2/\text{NDF}$ : 8.9/18

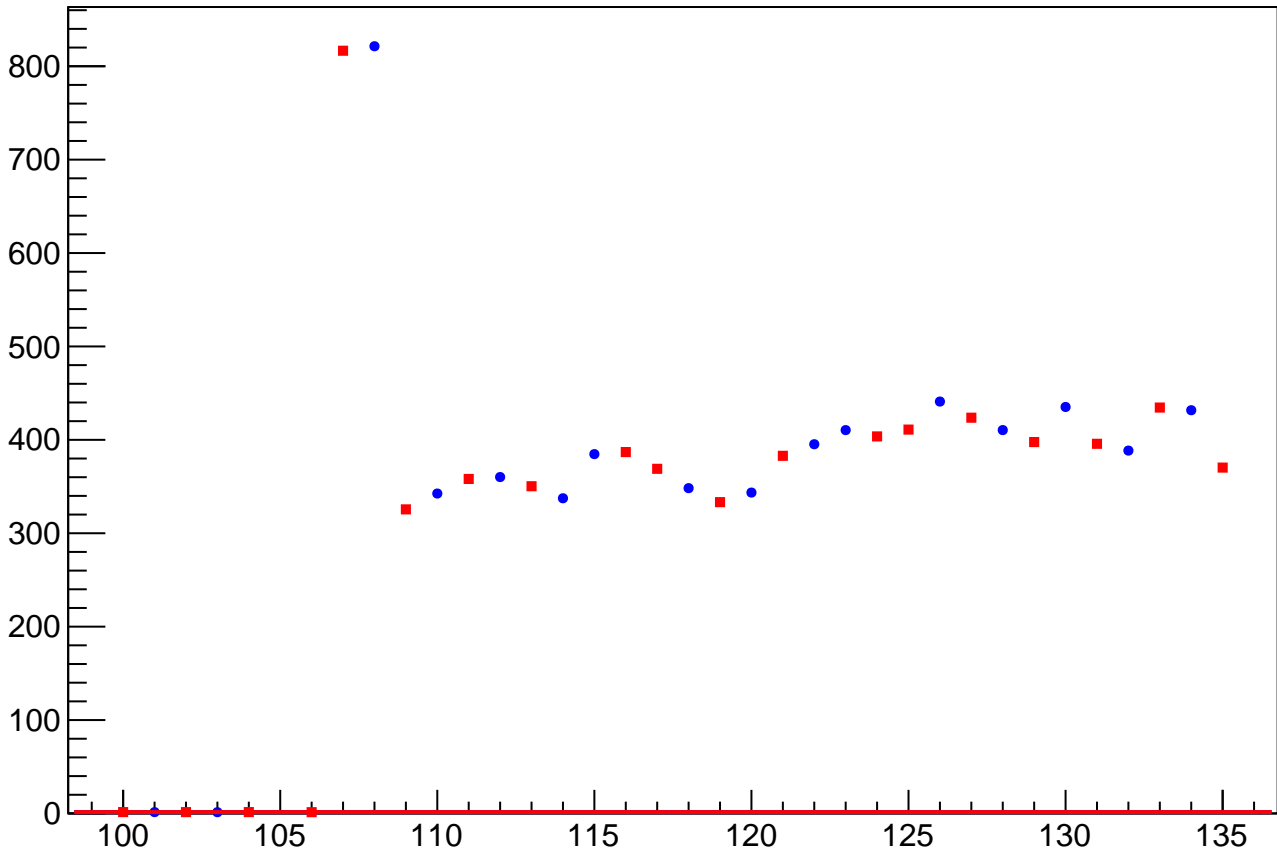
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.147 \pm 1.737$   $\chi^2/\text{NDF}$ : 8.7/15

$0.640 \pm 1.186$   $\chi^2/\text{NDF}$ : 18.0/34

$1.326 \pm 1.623$   $\chi^2/\text{NDF}$ : 8.9/18

# asym\_cav4dQ\_rms vs Slug, Sign Corrected



Right In: 1.446+/-0.001  $\chi^2/\text{NDF}$ : 9137728.2/15

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

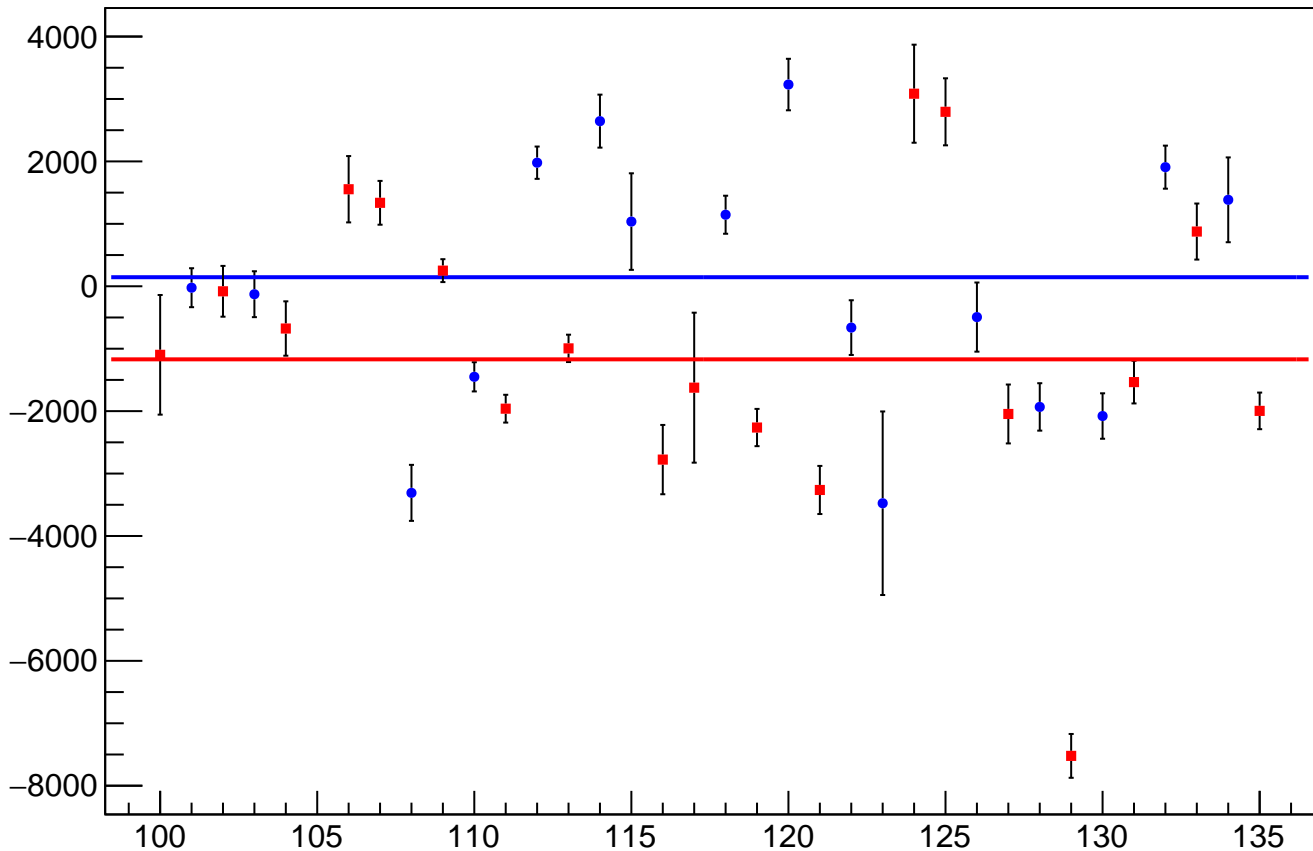
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.446+/-0.001  $\chi^2/\text{NDF}$ : 9137728.2/15

1.448+/-0.001  $\chi^2/\text{NDF}$ : 19722447.9/34

1.450+/-0.001  $\chi^2/\text{NDF}$ : 10584712.5/18

# asym\_bcm0l02\_mean vs Slug, Sign Corrected



Right In: 145.028+/-93.777  $\chi^2$ /NDF: 367.2/15

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

Right Out: -1170.527+/-79.163  $\chi^2$ /NDF: 655.1/18

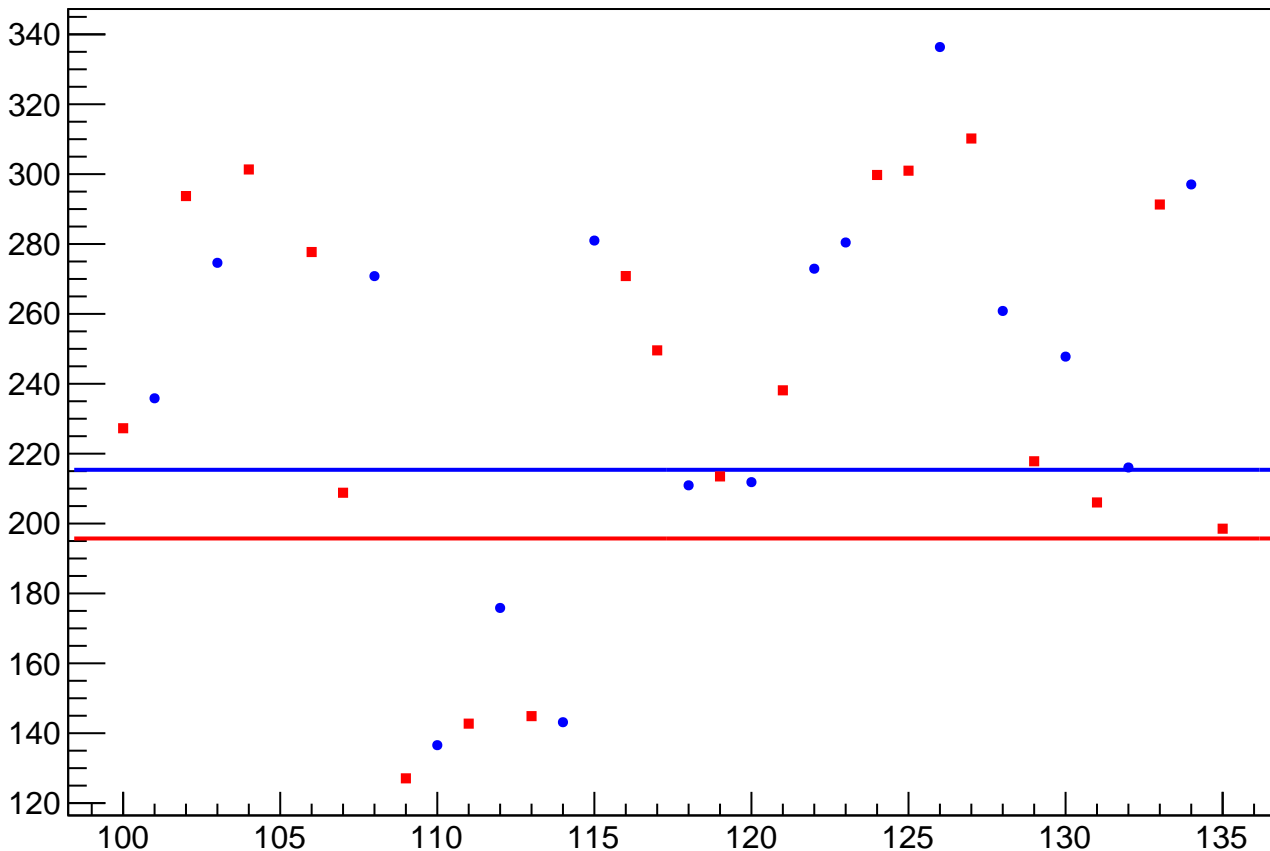
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

145.028+/-93.777  $\chi^2$ /NDF: 367.2/15

-623.128+/-60.491  $\chi^2$ /NDF: 1137.2/34

-1170.527+/-79.163  $\chi^2$ /NDF: 655.1/18

# asym\_bcm0l02\_rms vs Slug, Sign Corrected



Right In: 215.384+/-0.066  $\chi^2$ /NDF: 644920.4/15

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

Right Out: 195.727+/-0.056  $\chi^2$ /NDF: 1189715.9/18

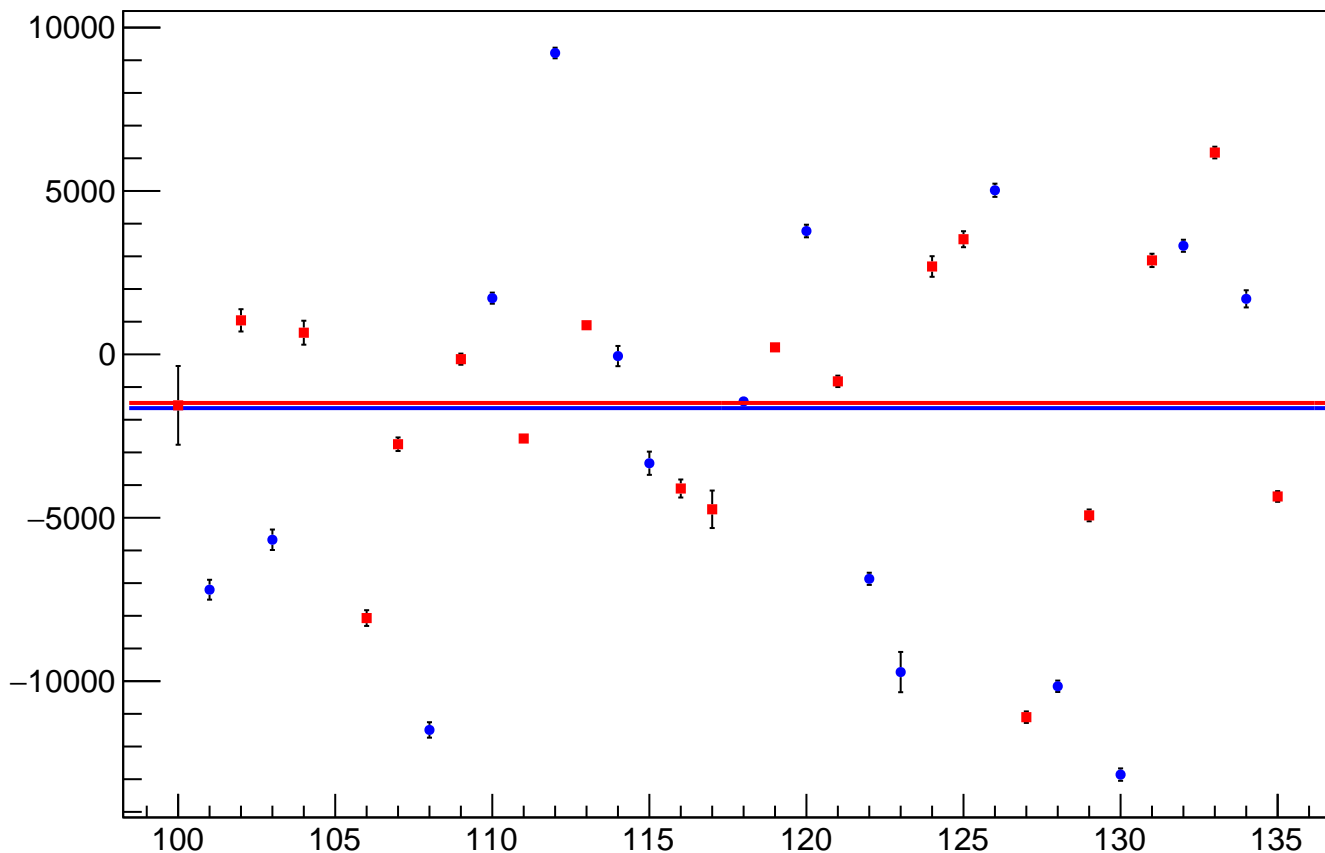
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

215.384+/-0.066  $\chi^2$ /NDF: 644920.4/15

203.906+/-0.043  $\chi^2$ /NDF: 1885945.6/34

195.727+/-0.056  $\chi^2$ /NDF: 1189715.9/18

# asym\_bpm2i01WS\_mean vs Slug, Sign Corrected



Right In: -1645.188+/-52.598  $\chi^2$ /NDF: 16733.8/15

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

Right Out: -1486.399+/-46.961  $\chi^2$ /NDF: 8026.5/18

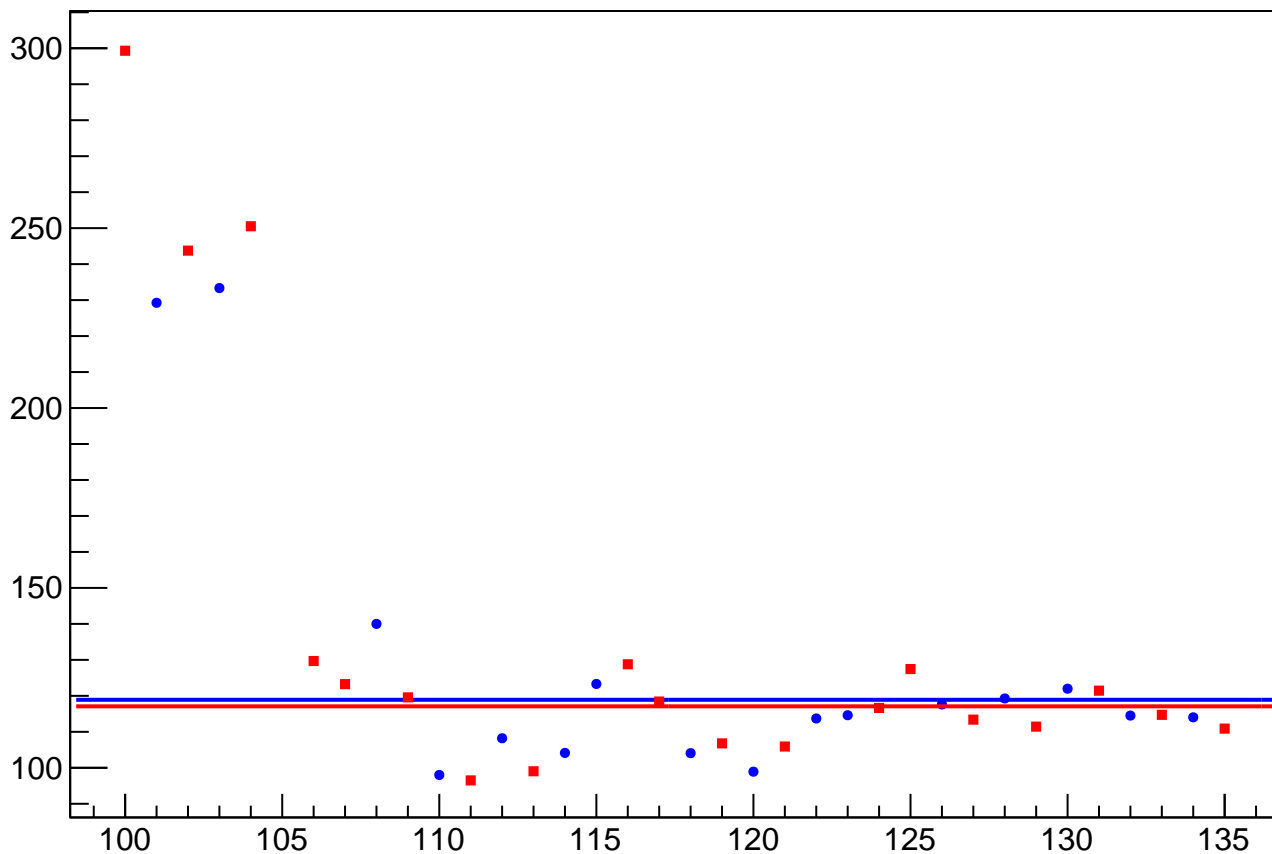
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-1645.188+/-52.598  $\chi^2$ /NDF: 16733.8/15

-1556.832+/-35.030  $\chi^2$ /NDF: 24765.3/34

-1486.399+/-46.961  $\chi^2$ /NDF: 8026.5/18

# asym\_bpm2i01WS\_rms vs Slug, Sign Corrected



Right In: 118.904 $\pm$ 0.037  $\chi^2$ /NDF: 635019.6/15

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

Right Out: 117.088 $\pm$ 0.033  $\chi^2$ /NDF: 690805.3/18

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

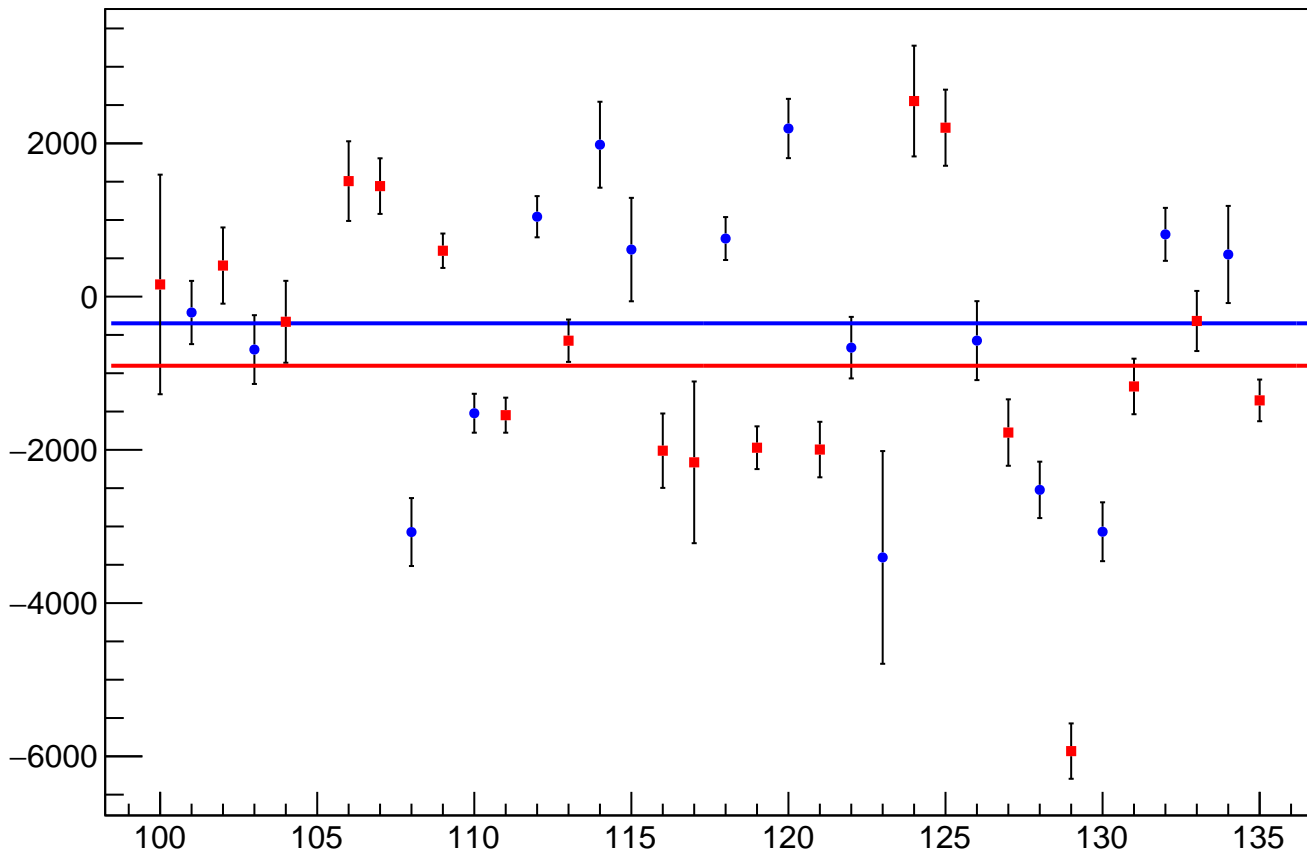
118.904 $\pm$ 0.037  $\chi^2$ /NDF: 635019.6/15

117.894 $\pm$ 0.025  $\chi^2$ /NDF: 1327152.3/34

117.088 $\pm$ 0.033  $\chi^2$ /NDF: 690805.3/18



# asym\_bpm0i07WS\_mean vs Slug, Sign Corrected



Right In:  $-348.610 \pm 97.335$   $\chi^2/\text{NDF}$ : 268.6/15

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

Right Out:  $-902.195 \pm 83.471$   $\chi^2/\text{NDF}$ : 421.6/18

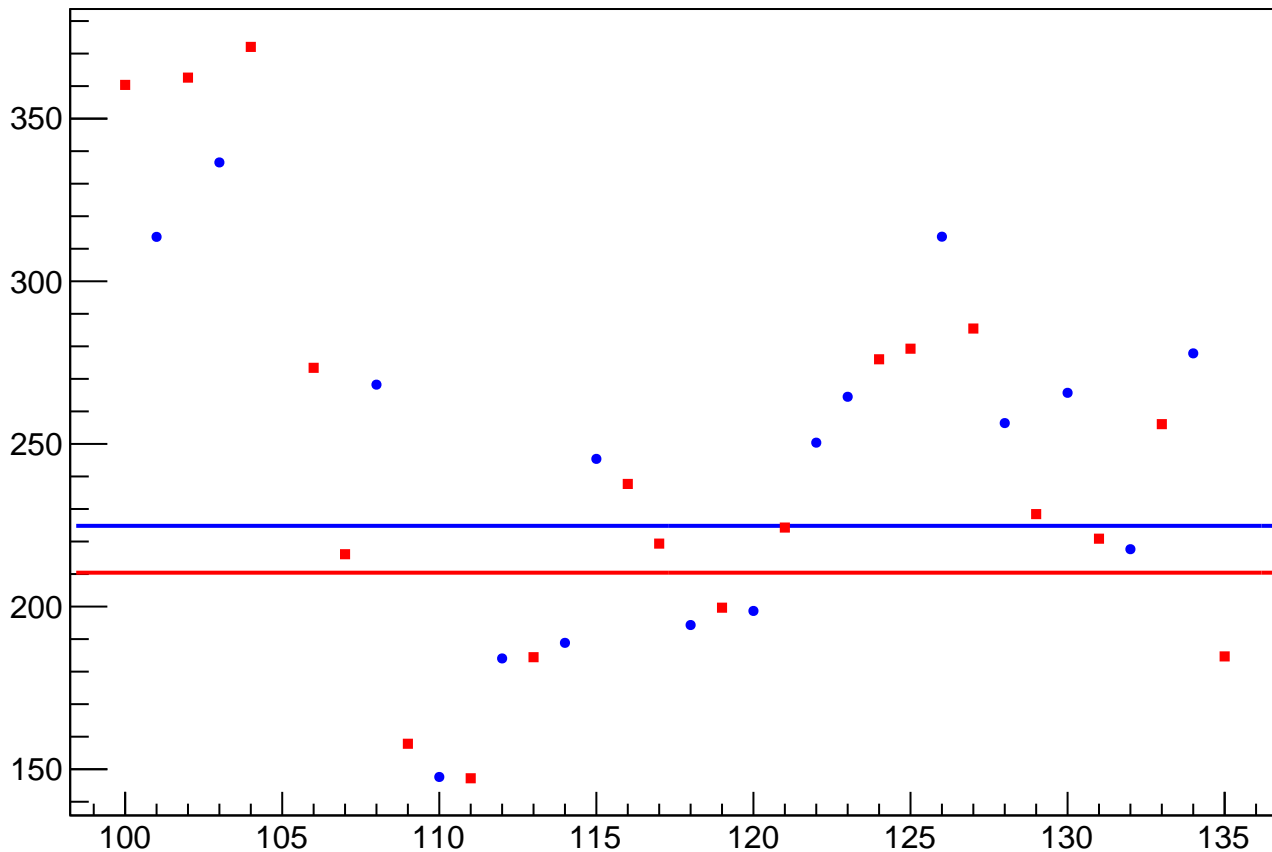
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-348.610 \pm 97.335$   $\chi^2/\text{NDF}$ : 268.6/15

$-667.604 \pm 63.363$   $\chi^2/\text{NDF}$ : 708.8/34

$-902.195 \pm 83.471$   $\chi^2/\text{NDF}$ : 421.6/18

# asym\_bpm0i07WS\_rms vs Slug, Sign Corrected



Right In: 224.819+/-0.069  $\chi^2/\text{NDF}$ : 630959.8/15

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

Right Out: 210.417+/-0.059  $\chi^2/\text{NDF}$ : 880840.2/18

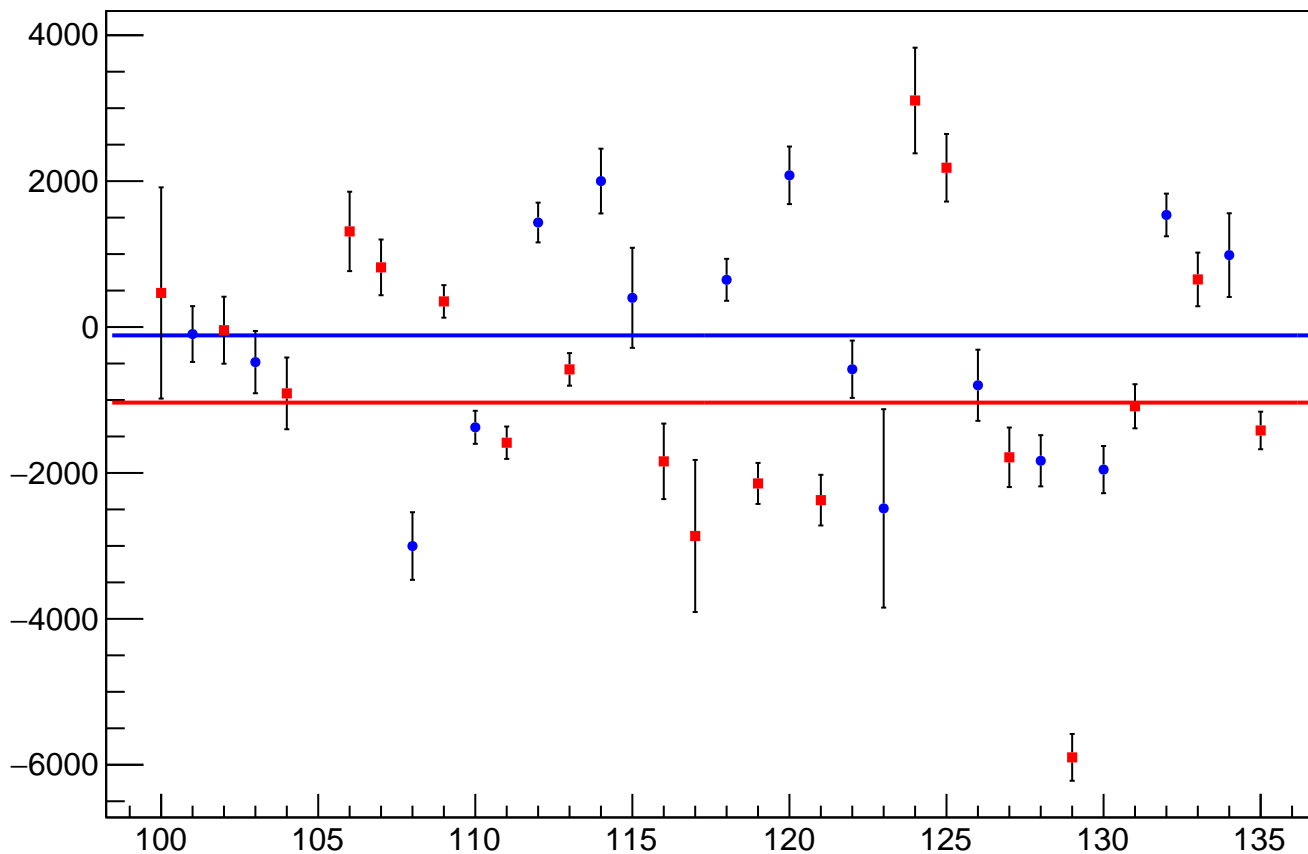
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

224.819+/-0.069  $\chi^2/\text{NDF}$ : 630959.8/15

216.520+/-0.045  $\chi^2/\text{NDF}$ : 1537029.3/34

210.417+/-0.059  $\chi^2/\text{NDF}$ : 880840.2/18

# asym\_bpm0l01WS\_mean vs Slug, Sign Corrected



Right In:  $-114.400 \pm 91.549$   $\chi^2/\text{NDF}: 262.3/15$

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

Right Out:  $-1035.830 \pm 78.716$   $\chi^2/\text{NDF}: 469.7/18$

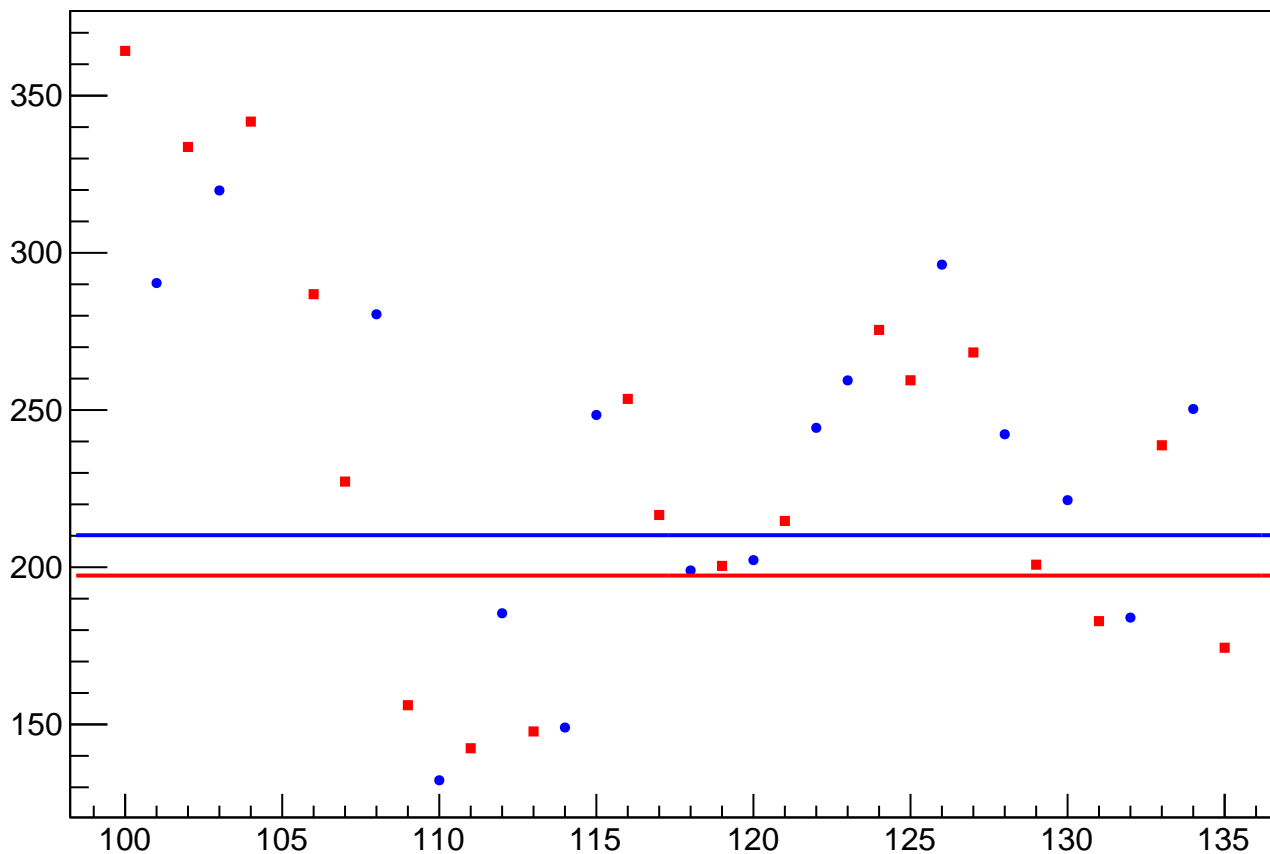
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-114.400 \pm 91.549$   $\chi^2/\text{NDF}: 262.3/15$

$-644.173 \pm 59.687$   $\chi^2/\text{NDF}: 790.2/34$

$-1035.830 \pm 78.716$   $\chi^2/\text{NDF}: 469.7/18$

# asym\_bpm0l01WS\_rms vs Slug, Sign Corrected



Right In: 210.186+/-0.065  $\chi^2/\text{NDF}$ : 692621.8/15

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

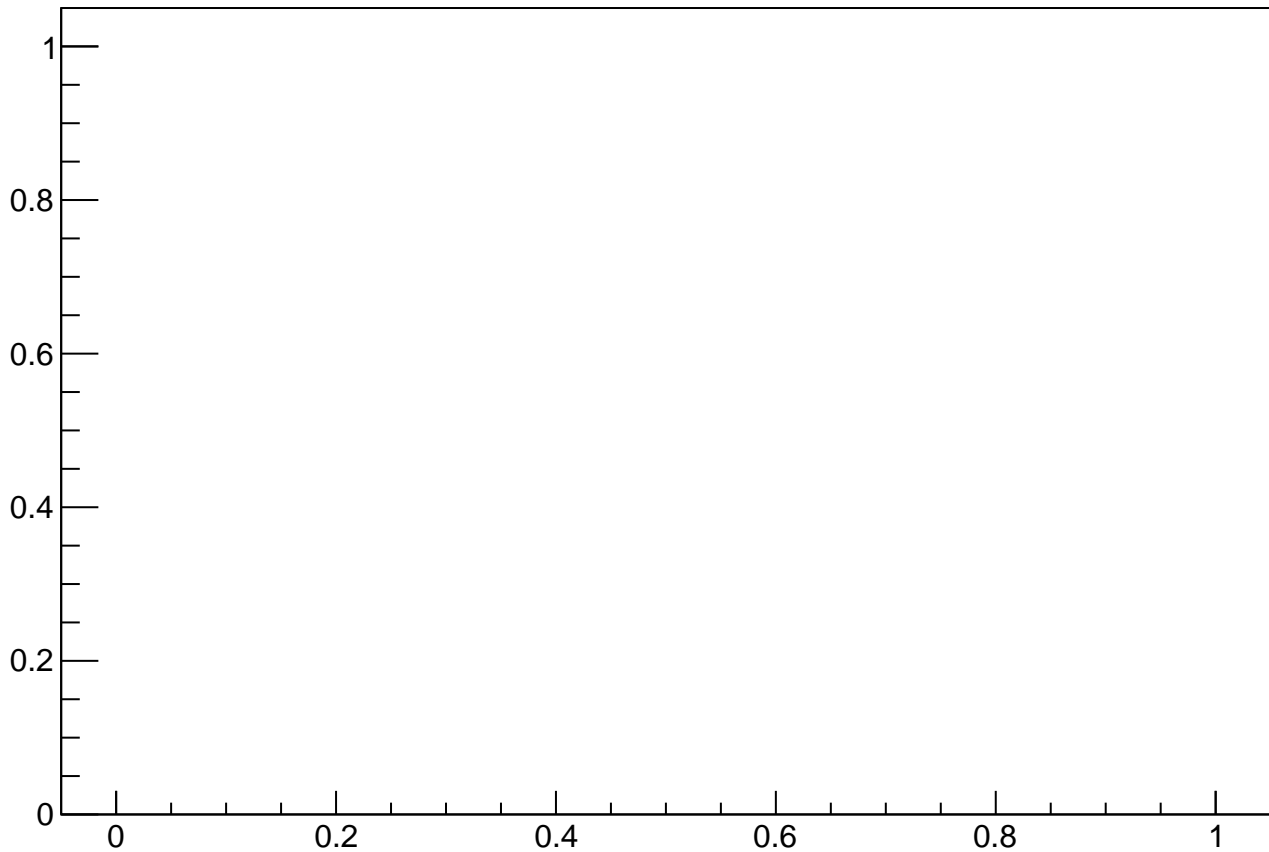
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

210.186+/-0.065  $\chi^2/\text{NDF}$ : 692621.8/15

202.805+/-0.042  $\chi^2/\text{NDF}$ : 1642190.6/34

197.349+/-0.056  $\chi^2/\text{NDF}$ : 926961.2/18

# bcm\_an\_us\_ds\_dd\_mean vs Slug, Sign Corrected



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

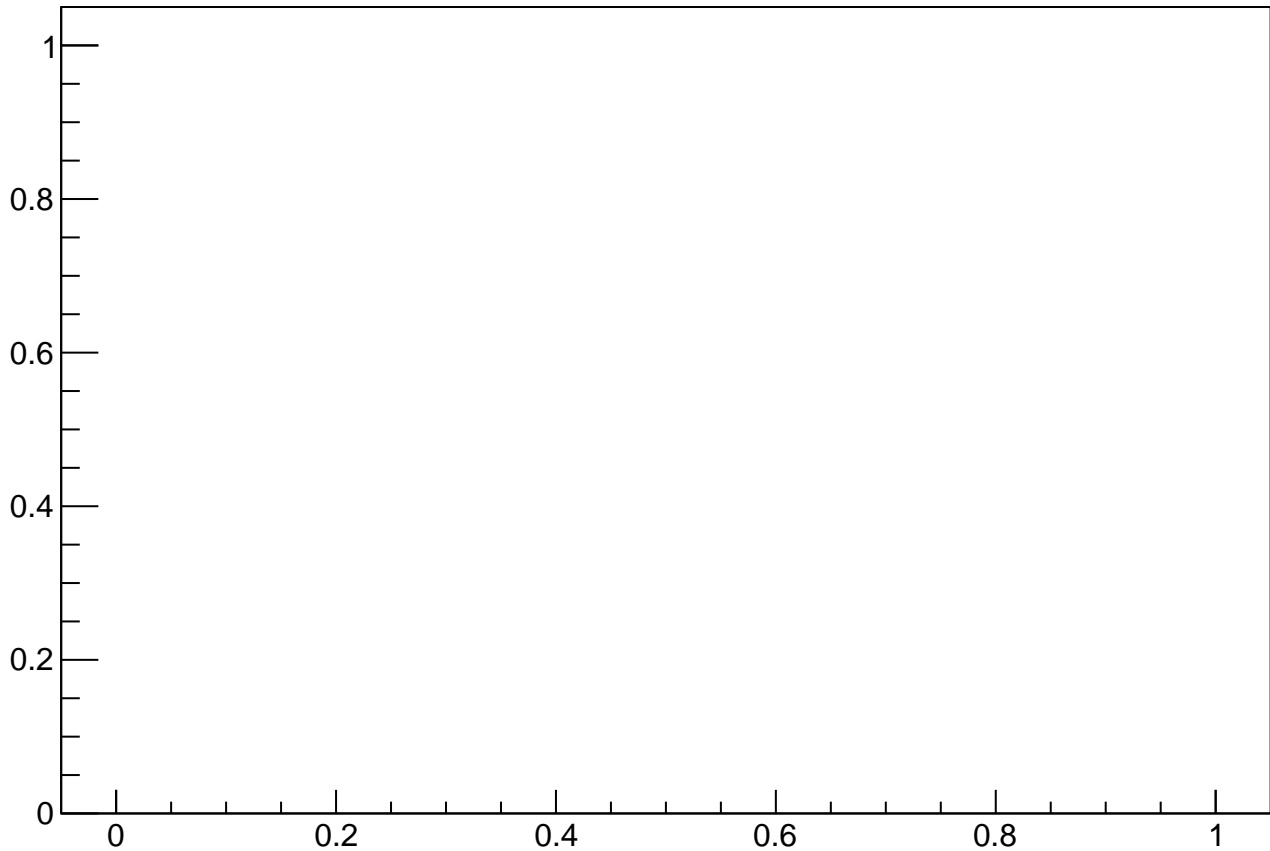
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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

# bcm\_an\_us\_ds\_dd\_rms vs Slug, Sign Corrected



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

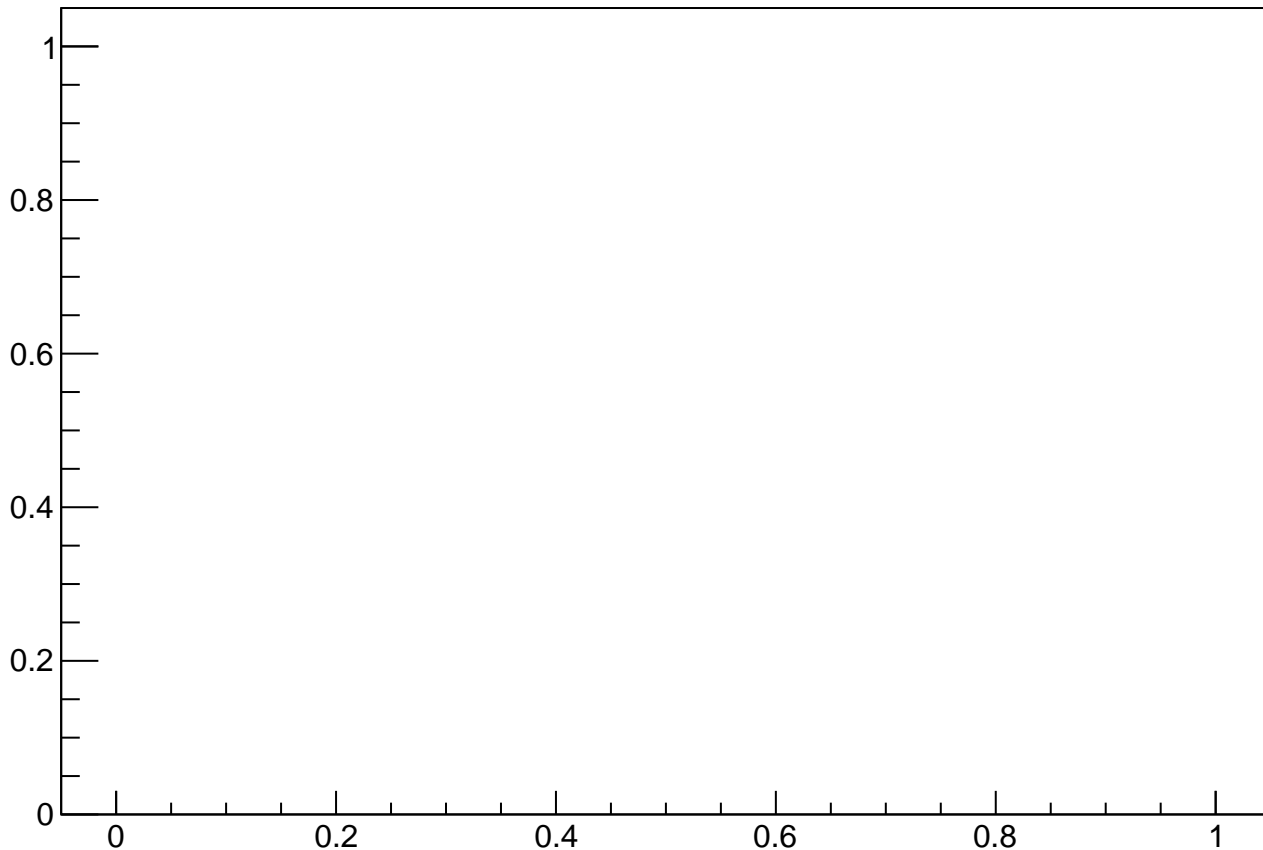
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_us\_dg\_ds\_dd\_mean vs Slug, Sign Corrected



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

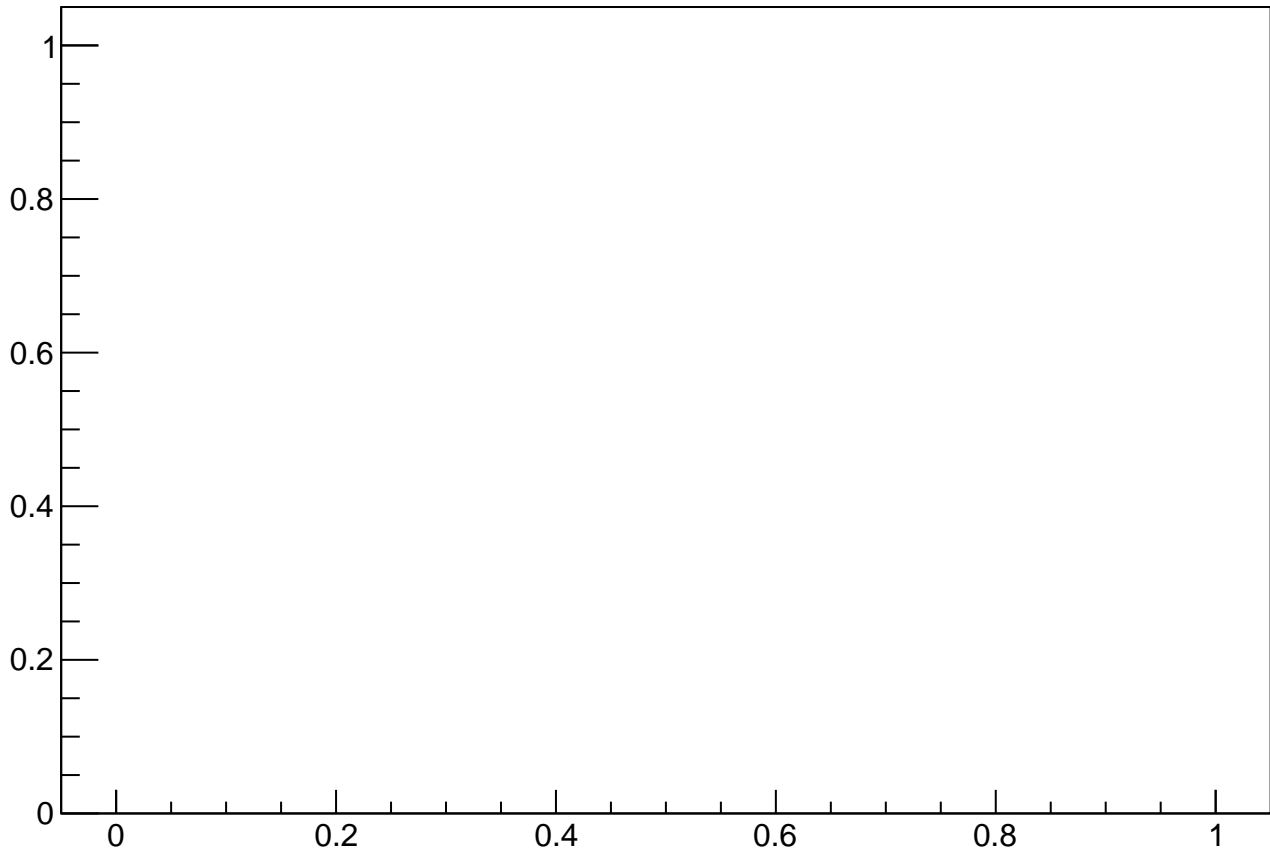
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# bcm\_dg\_us\_dg\_ds\_dd\_rms vs Slug, Sign Corrected



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

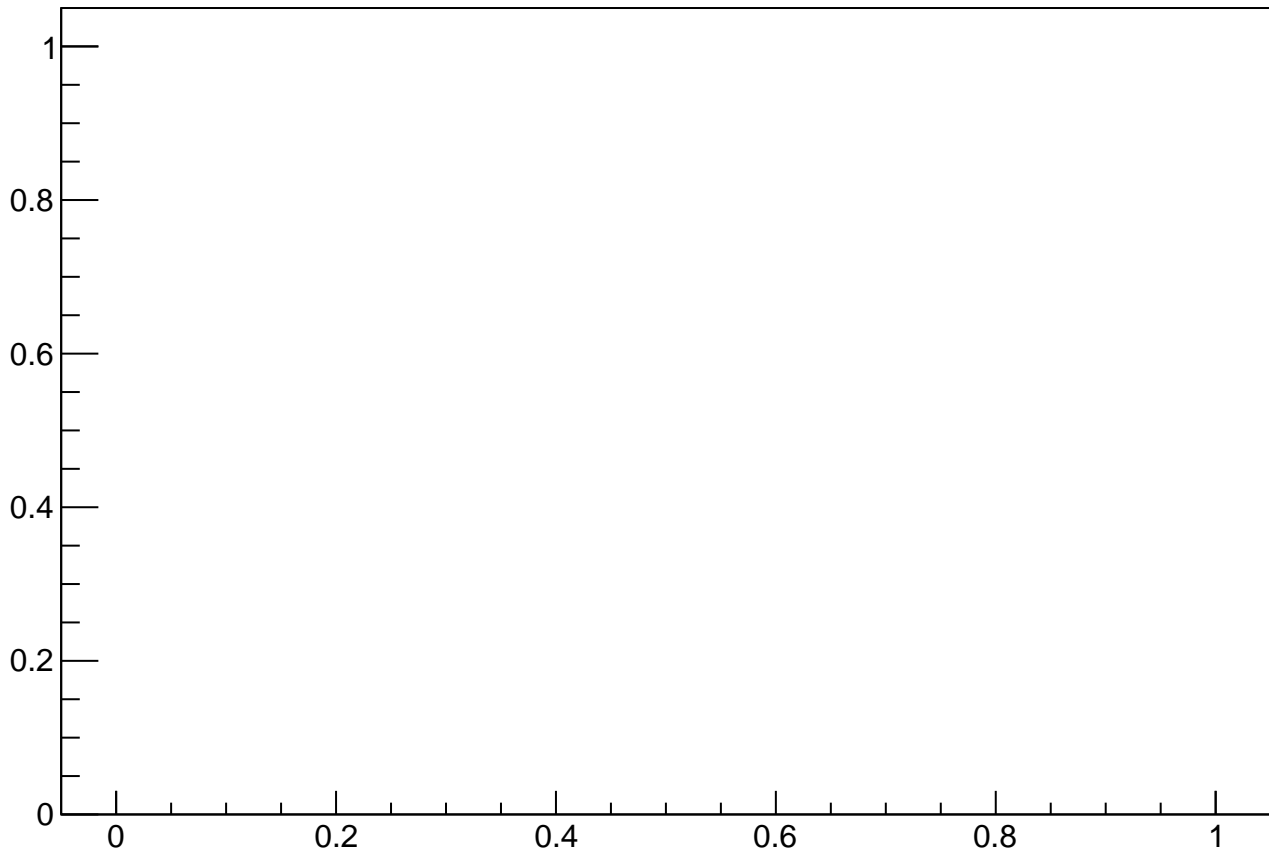
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# bcm\_dg\_us\_ds\_dd\_mean vs Slug, Sign Corrected



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

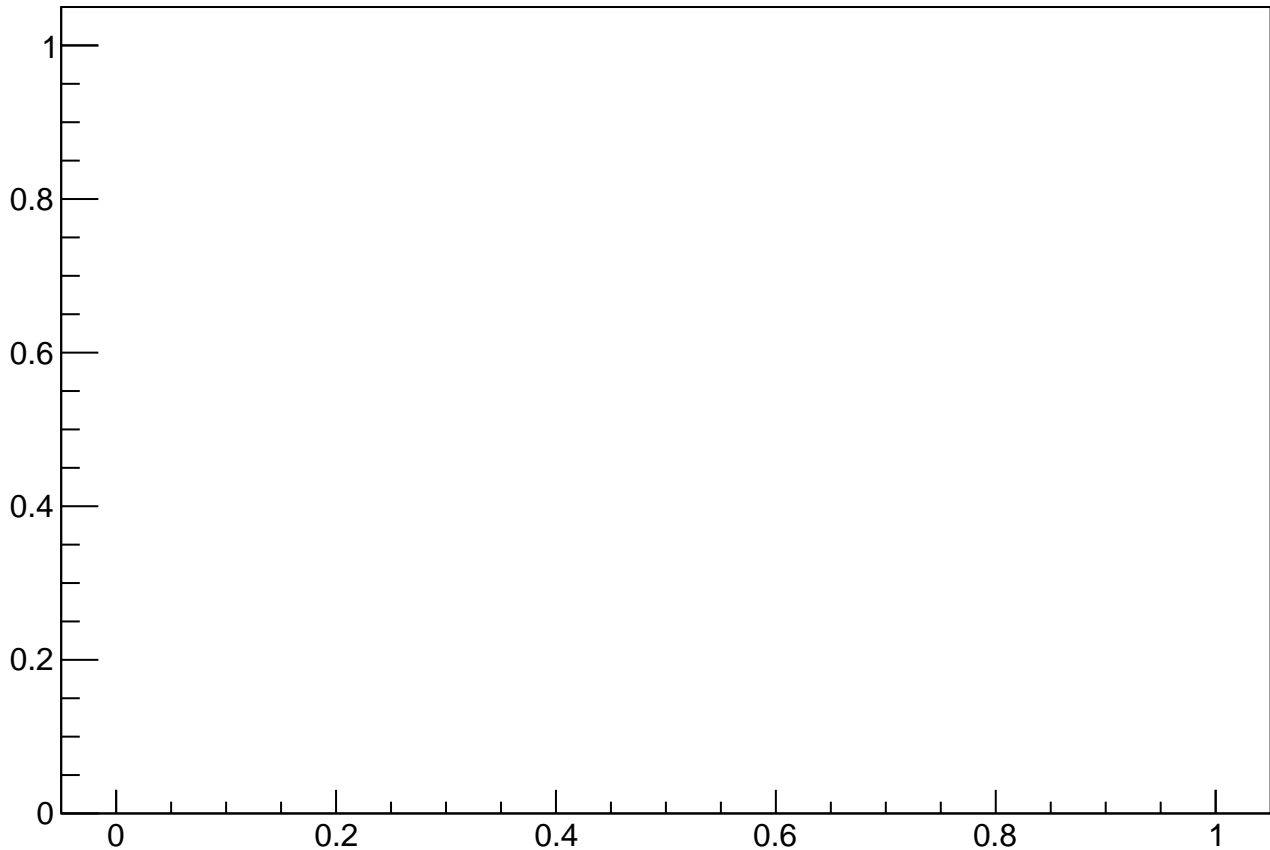
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# bcm\_dg\_us\_ds\_dd\_rms vs Slug, Sign Corrected



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

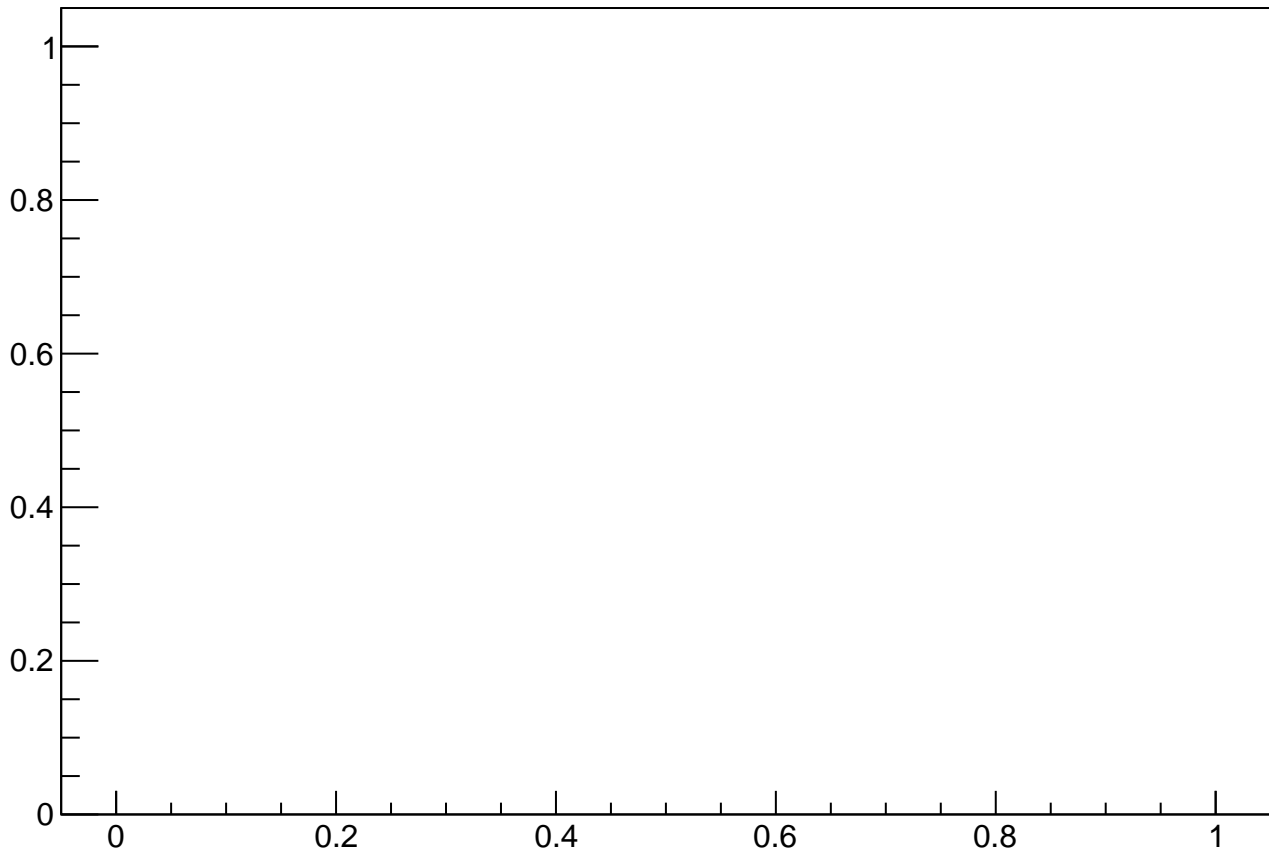
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_ds\_ds\_dd\_mean vs Slug, Sign Corrected



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

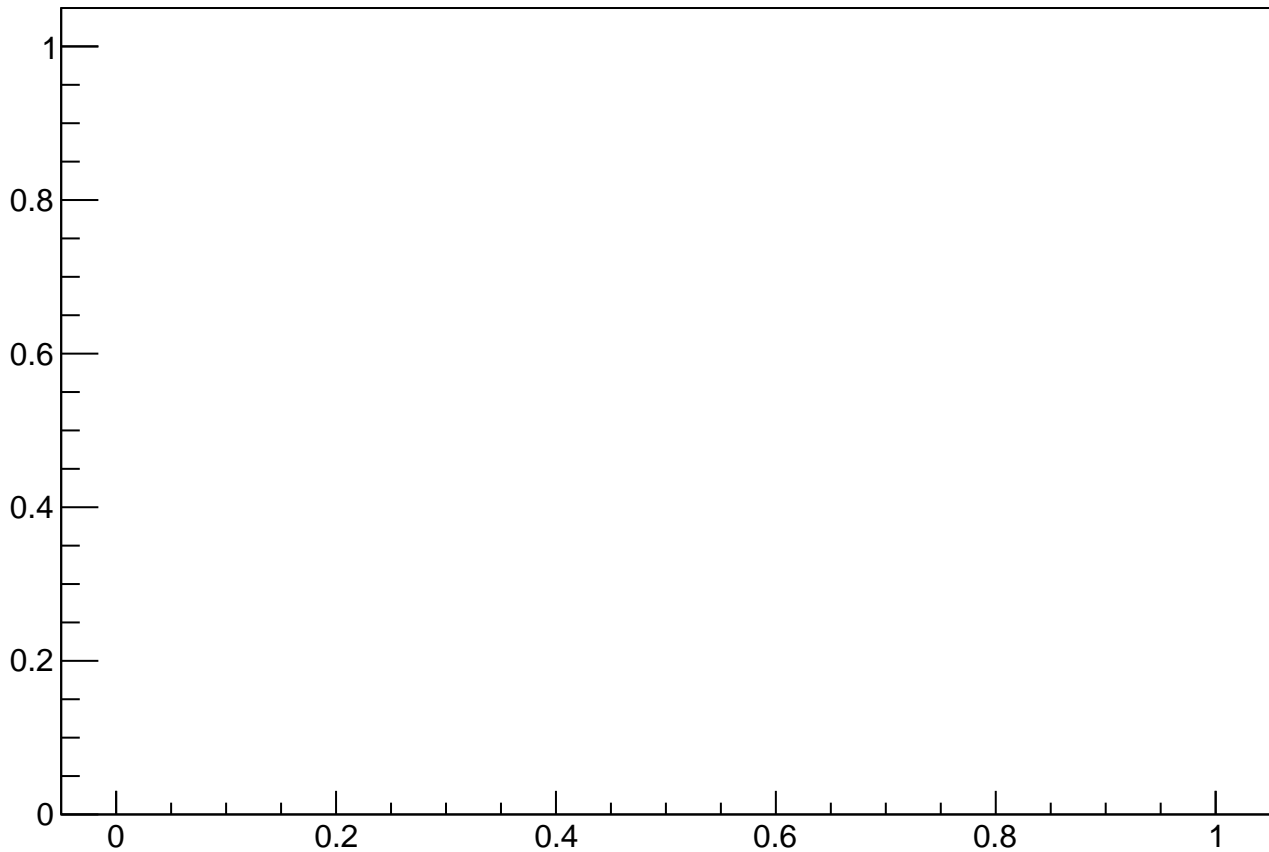
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# bcm\_dg\_ds\_ds\_dd\_rms vs Slug, Sign Corrected



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

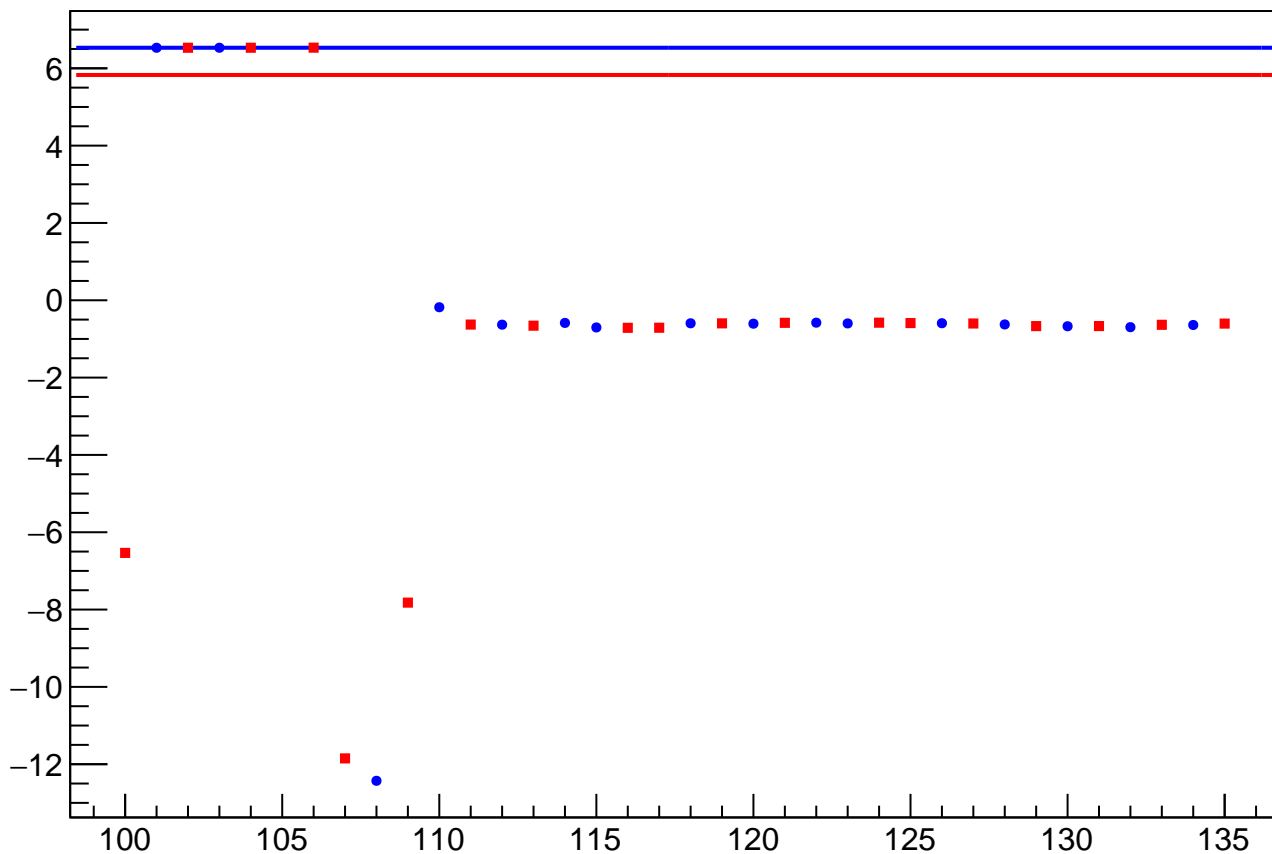
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bX\_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000  $\chi^2/\text{NDF}$ : 101624167035.8/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6.532+/-0.000  $\chi^2/\text{NDF}$ : 101624167035.8/15

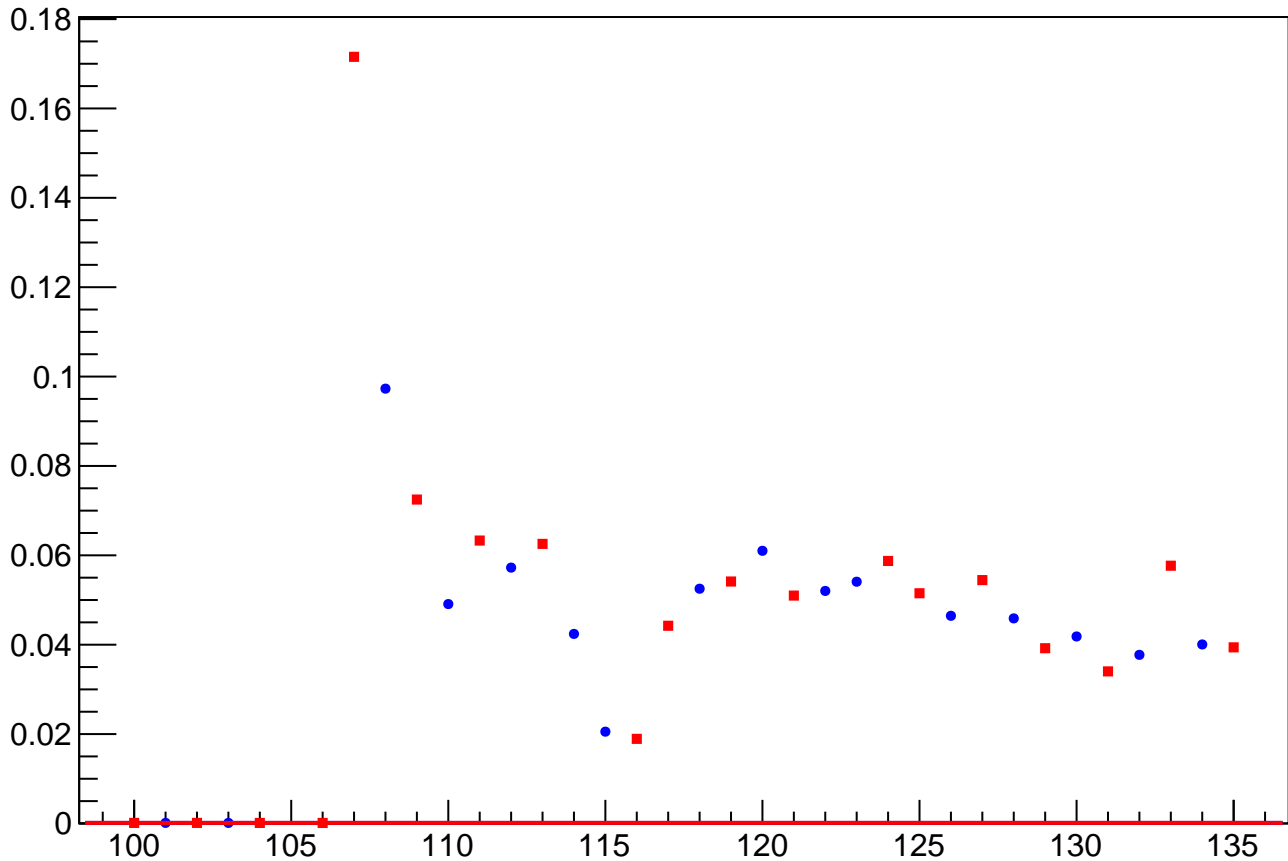
6.155+/-0.000  $\chi^2/\text{NDF}$ : 77606536485809

Right Out: 5.827+/-0.000  $\chi^2/\text{NDF}$ : 755957571252689.9/18

5.827+/-0.000  $\chi^2/\text{NDF}$ : 755957571252689.9/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7684330.2/15

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

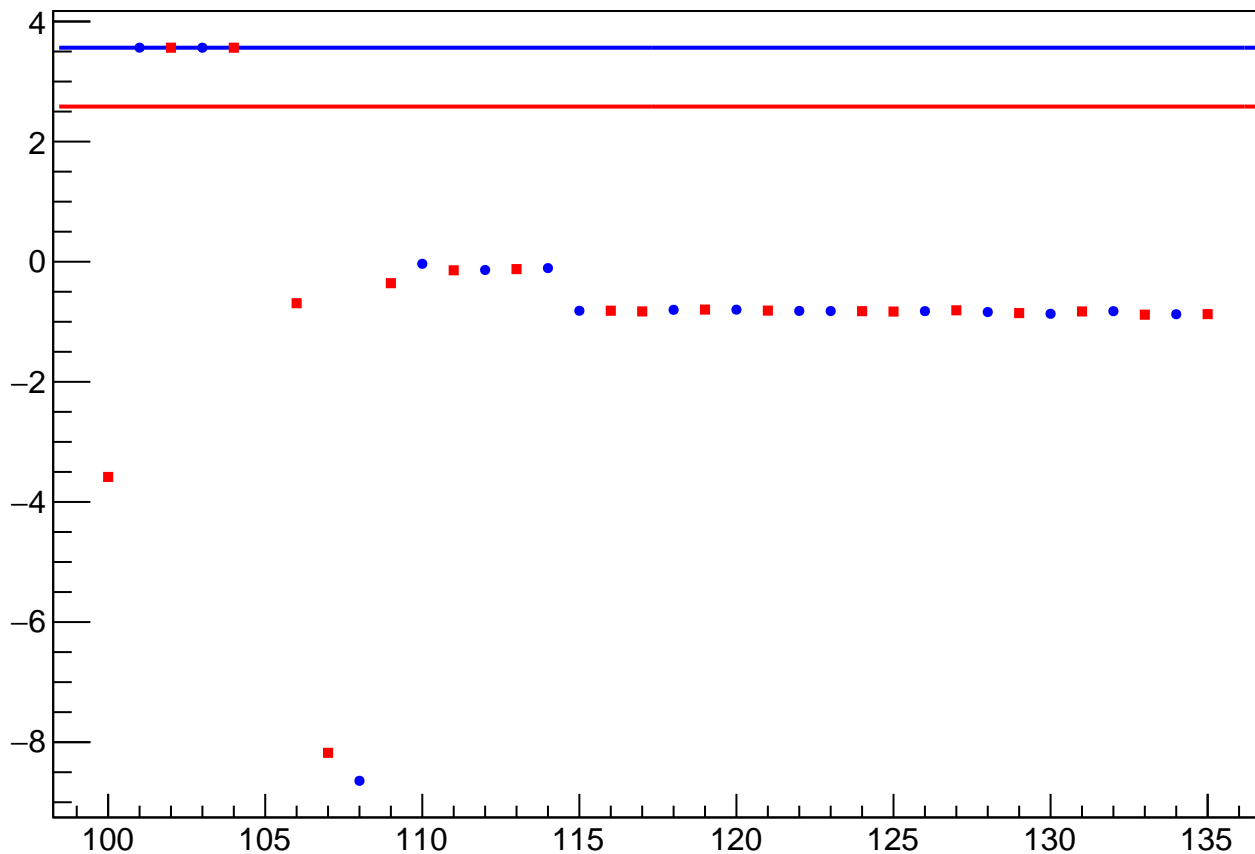
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 7684330.2/15

0.000+/-0.000  $\chi^2/\text{NDF}$ : 16836391.2/34

0.000+/-0.000  $\chi^2/\text{NDF}$ : 9151864.7/18

# yield\_cav4bY\_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000  $\chi^2/\text{NDF}$ : 342212596350.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.563+/-0.000  $\chi^2/\text{NDF}$ : 342212596350.9/15

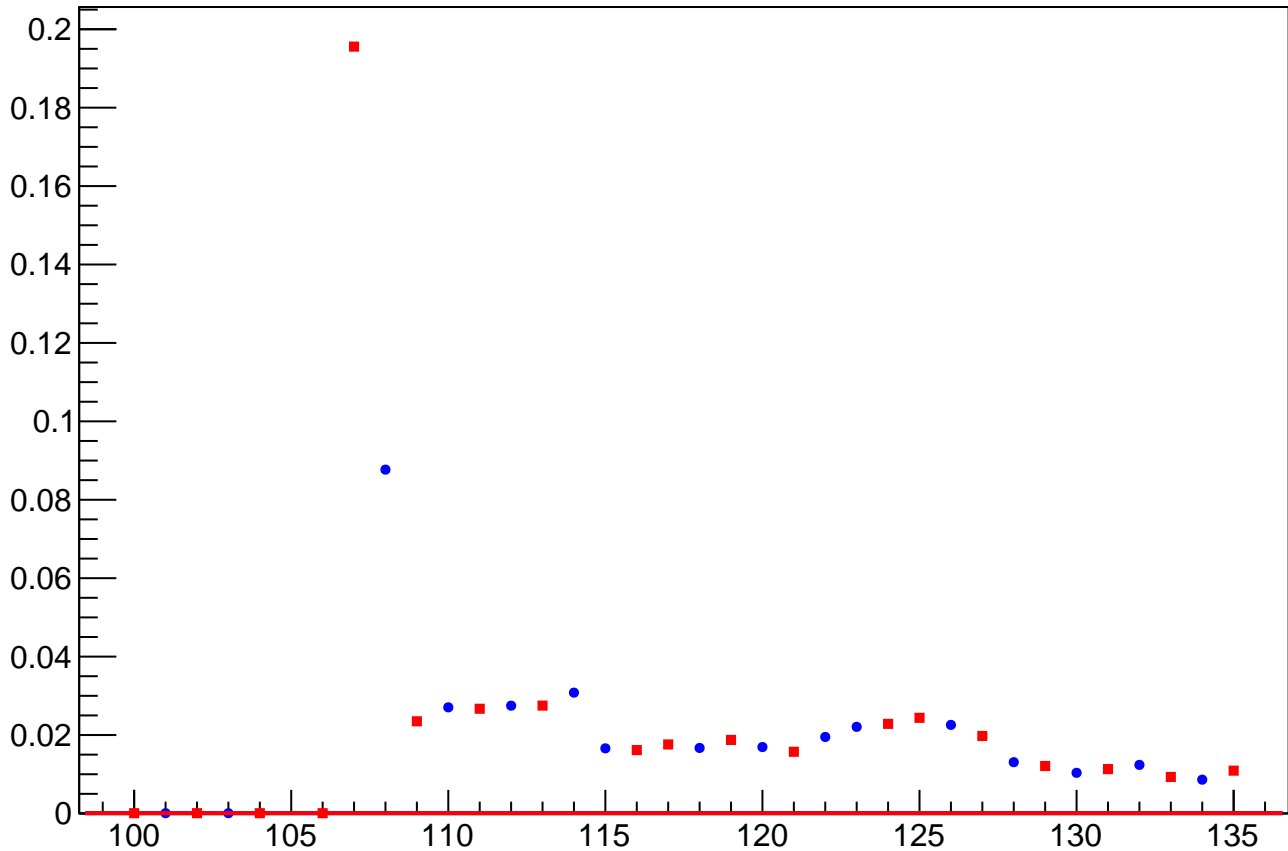
Right Out: 2.583+/-0.000  $\chi^2/\text{NDF}$ : 1253473200442888.2/18

3.040+/-0.000  $\chi^2/\text{NDF}$ : 13821091961902

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.583+/-0.000  $\chi^2/\text{NDF}$ : 1253473200442888.2/18

# yield\_cav4bY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 8364000.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 9621945.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

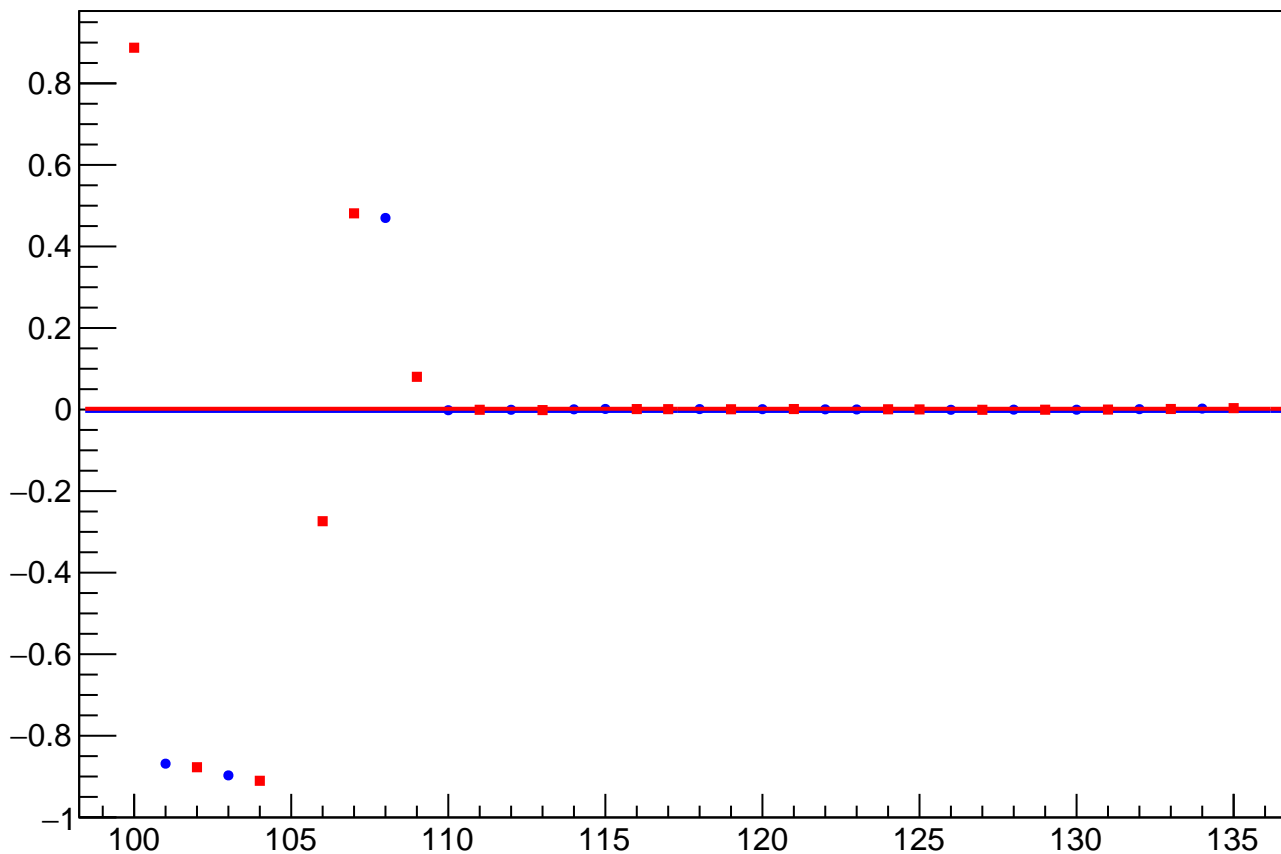
0.000+/-0.000  $\chi^2$ /NDF: 8364000.5/15

0.000+/-0.000  $\chi^2$ /NDF: 17986115.6/34

0.000+/-0.000  $\chi^2$ /NDF: 9621945.0/18



# yield\_cav4cX\_mean vs Slug, Sign Corrected



Right In: -0.003+/-0.000  $\chi^2$ /NDF: 9789537655.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002+/-0.000  $\chi^2$ /NDF: 3041193224.3/18

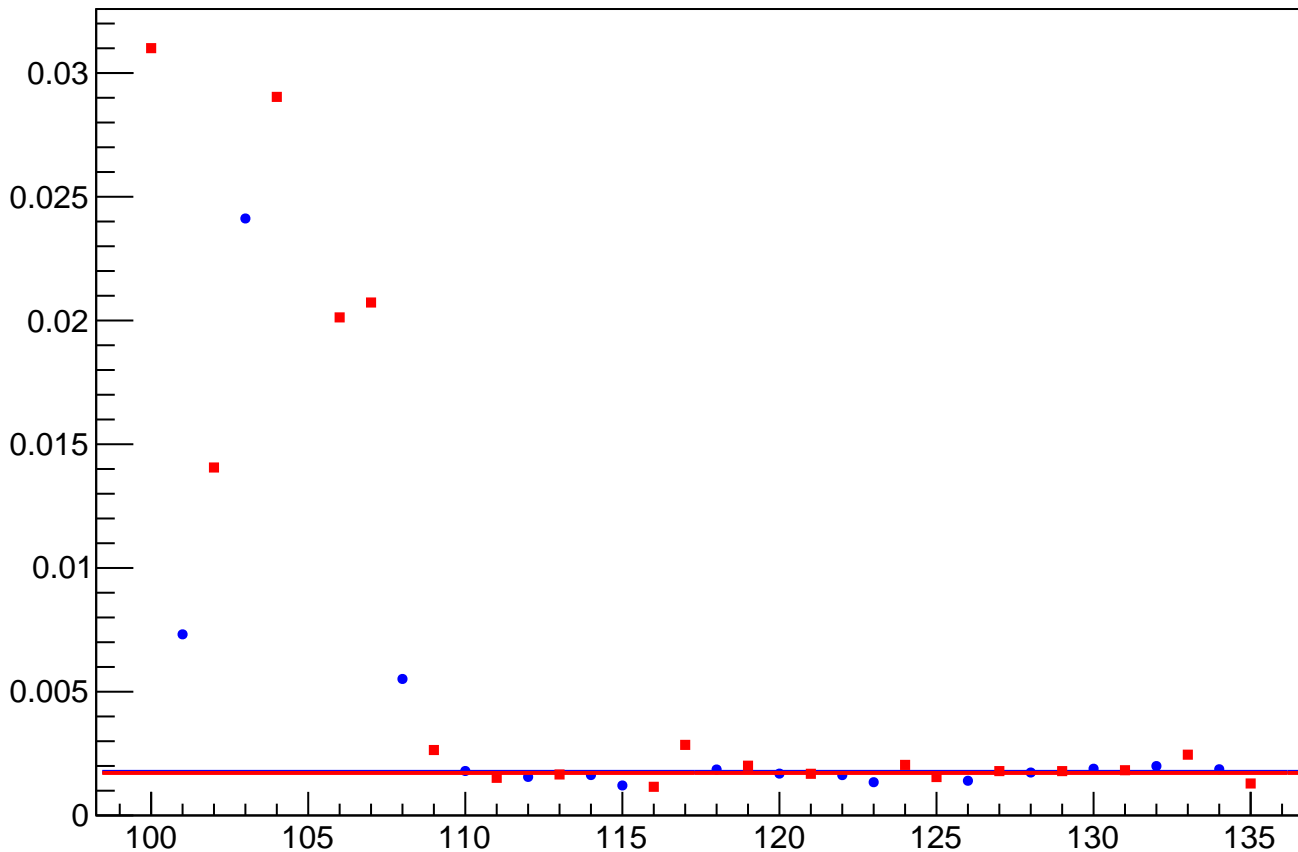
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.003+/-0.000  $\chi^2$ /NDF: 9789537655.9/15

-0.001+/-0.000  $\chi^2$ /NDF: 12849706227.8/15

0.002+/-0.000  $\chi^2$ /NDF: 3041193224.3/18

# yield\_cav4cX\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1765289.1/15

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

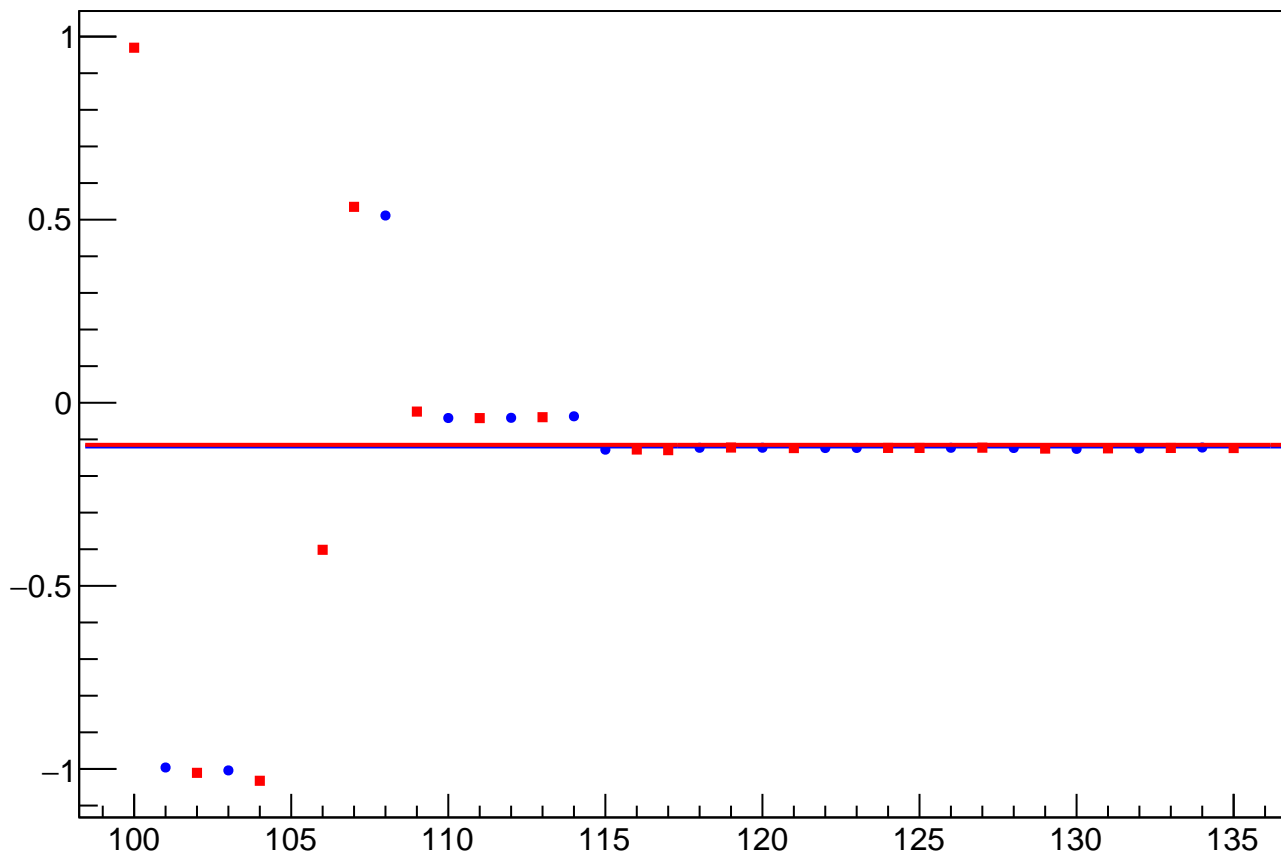
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.002+/-0.000  $\chi^2/\text{NDF}$ : 1765289.1/15

0.002+/-0.000  $\chi^2/\text{NDF}$ : 4788590.4/34

0.002+/-0.000  $\chi^2/\text{NDF}$ : 3020885.3/18

# yield\_cav4cY\_mean vs Slug, Sign Corrected



Right In: -0.119+/-0.000  $\chi^2$ /NDF: 3926952402.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.115+/-0.000  $\chi^2$ /NDF: 2448936459.7/18

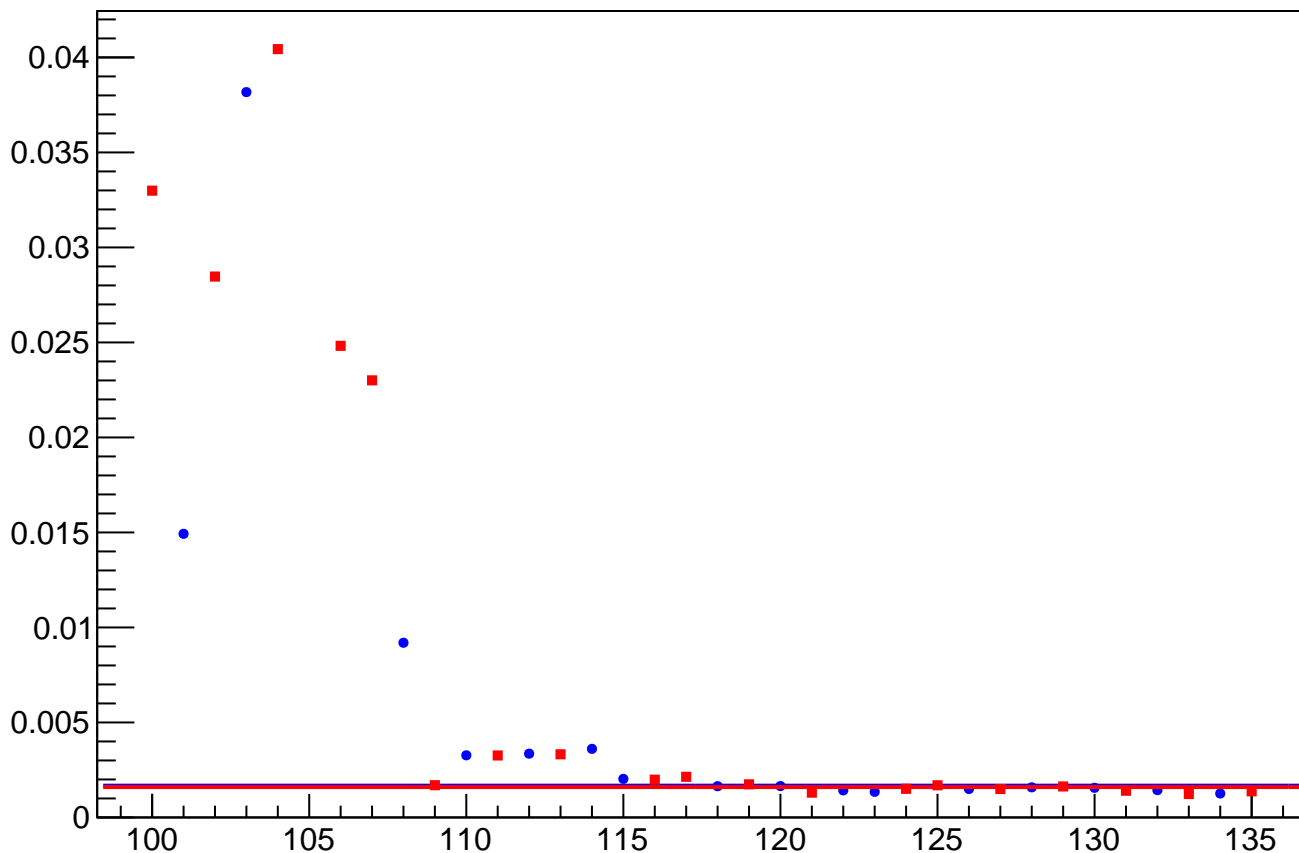
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.119+/-0.000  $\chi^2$ /NDF: 3926952402.7/15

-0.117+/-0.000  $\chi^2$ /NDF: 6392092879.2/3

-0.115+/-0.000  $\chi^2$ /NDF: 2448936459.7/18

# yield\_cav4cY\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2744889.7/15

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

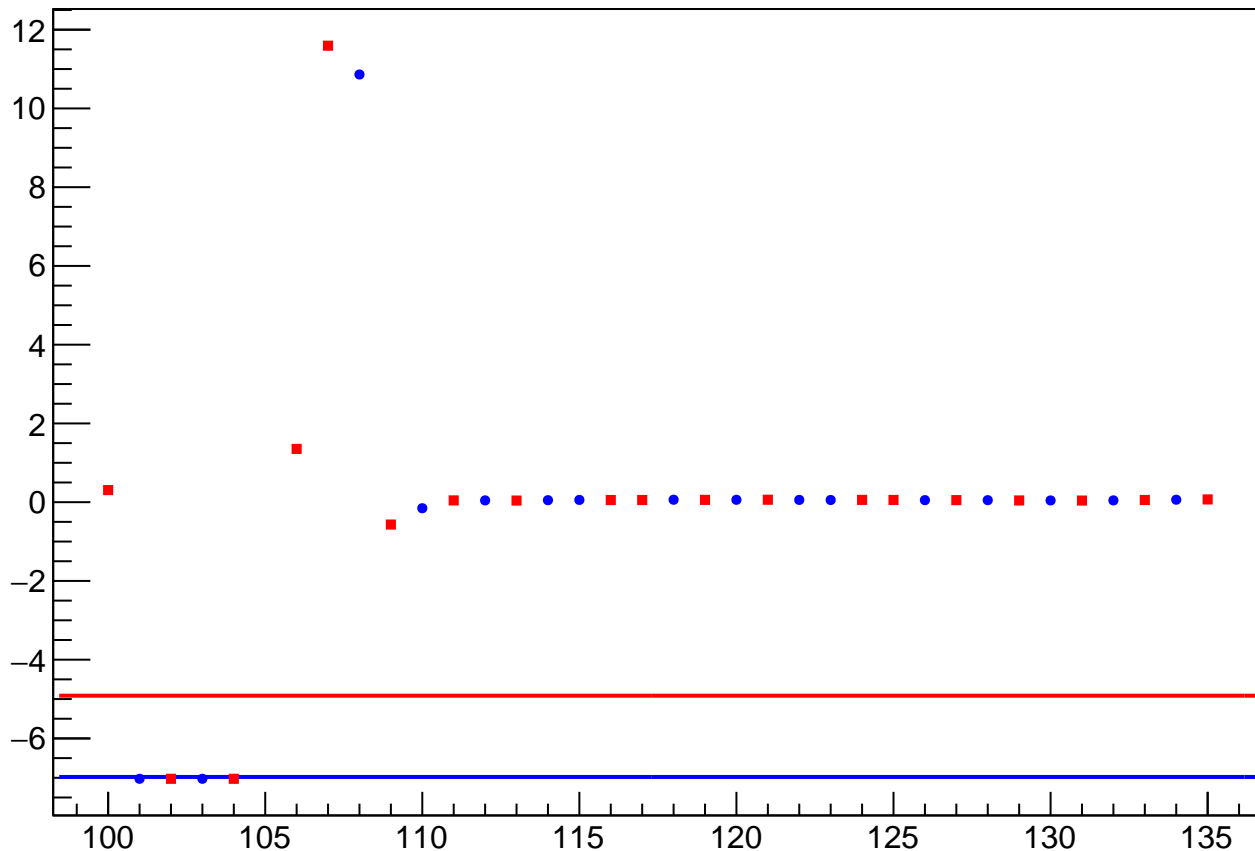
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.002+/-0.000  $\chi^2/\text{NDF}$ : 2744889.7/15

0.002+/-0.000  $\chi^2/\text{NDF}$ : 6207263.5/34

0.002+/-0.000  $\chi^2/\text{NDF}$ : 3453913.1/18

# yield\_cav4dX\_mean vs Slug, Sign Corrected



Right In: -6.979+/-0.000  $\chi^2$ /NDF: 8132697732304.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-6.979+/-0.000  $\chi^2$ /NDF: 8132697732304.5/15

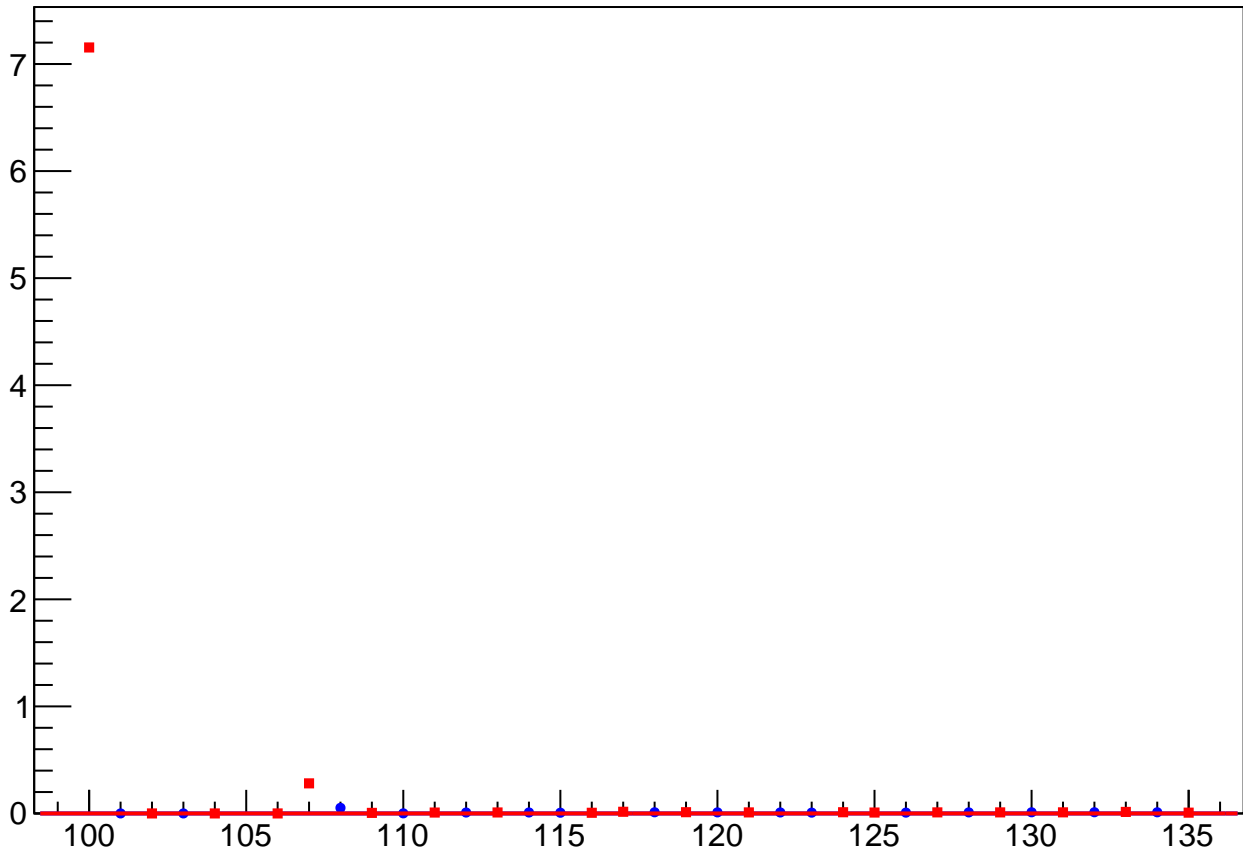
Right Out: -4.914+/-0.000  $\chi^2$ /NDF: 365298596598109.3/18

-5.901+/-0.000  $\chi^2$ /NDF: 4297798078756

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-4.914+/-0.000  $\chi^2$ /NDF: 365298596598109.3/18

# yield\_cav4dX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6958505.4/15

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

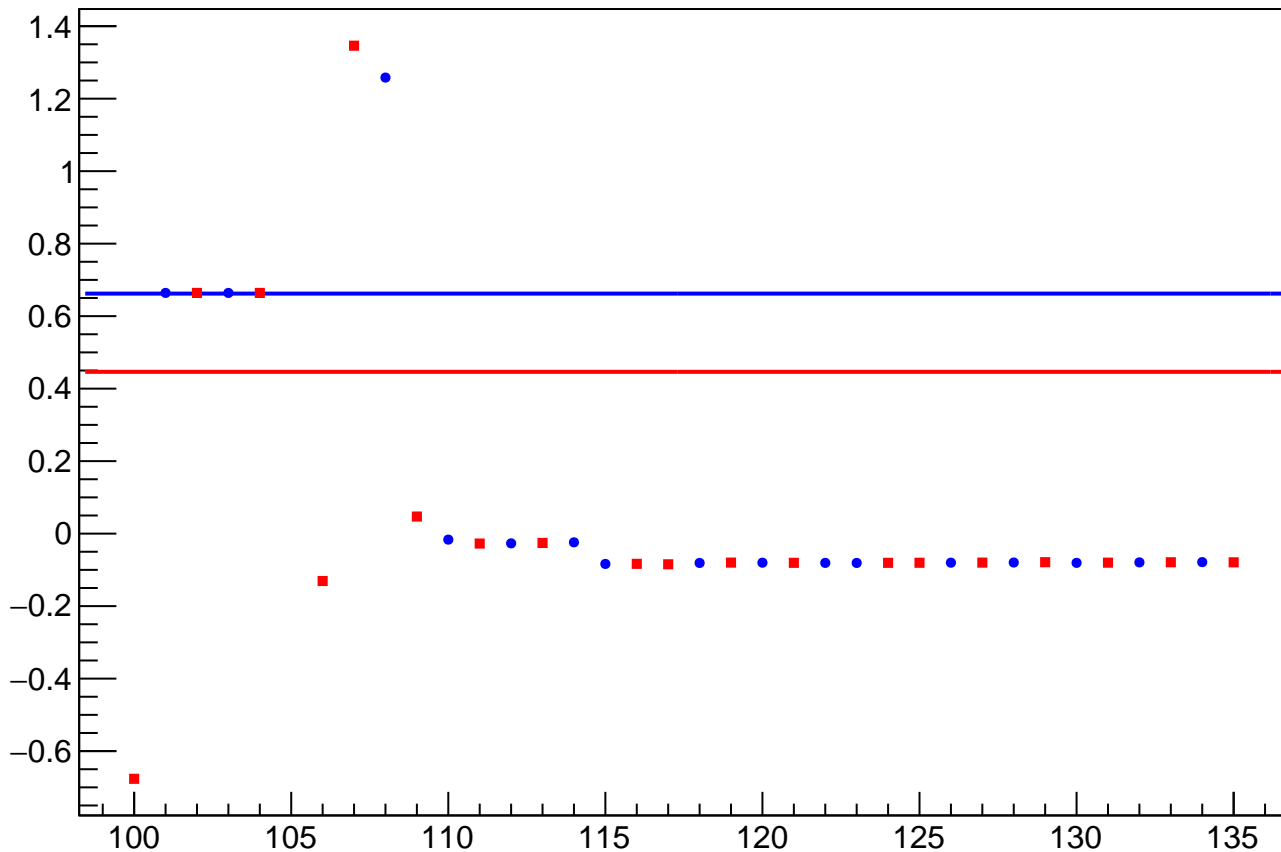
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 6958505.4/15

0.000+/-0.000  $\chi^2/\text{NDF}$ : 15519323.9/34

0.000+/-0.000  $\chi^2/\text{NDF}$ : 8560814.7/18

# yield\_cav4dY\_mean vs Slug, Sign Corrected



Right In: 0.662+/-0.000  $\chi^2/\text{NDF}$ : 3600941892569.6/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.662+/-0.000  $\chi^2/\text{NDF}$ : 3600941892569.6/15

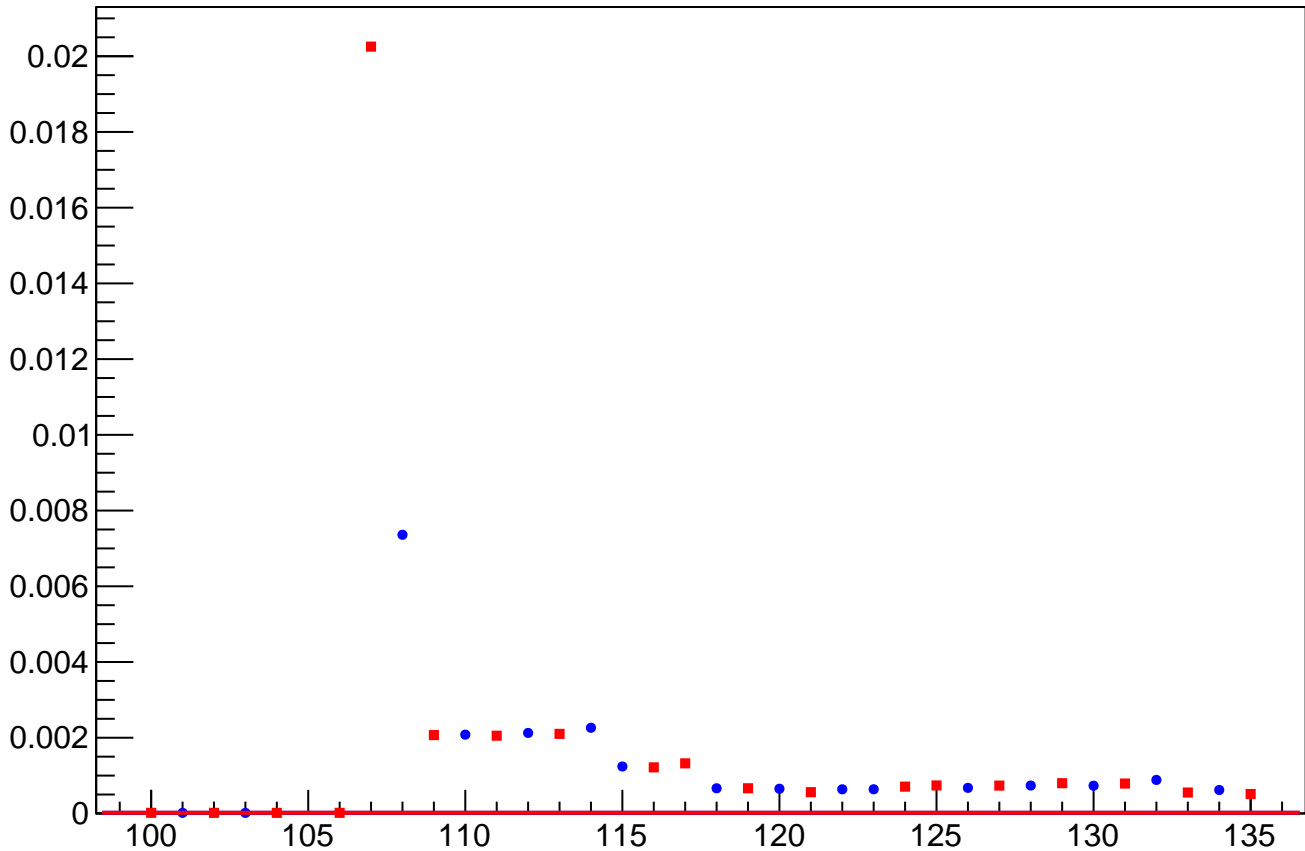
Right Out: 0.446+/-0.000  $\chi^2/\text{NDF}$ : 405210853741328.0/18

0.549+/-0.000  $\chi^2/\text{NDF}$ : 47221034690801

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.446+/-0.000  $\chi^2/\text{NDF}$ : 405210853741328.0/18

# yield\_cav4dY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8410192.8/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9224066.5/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

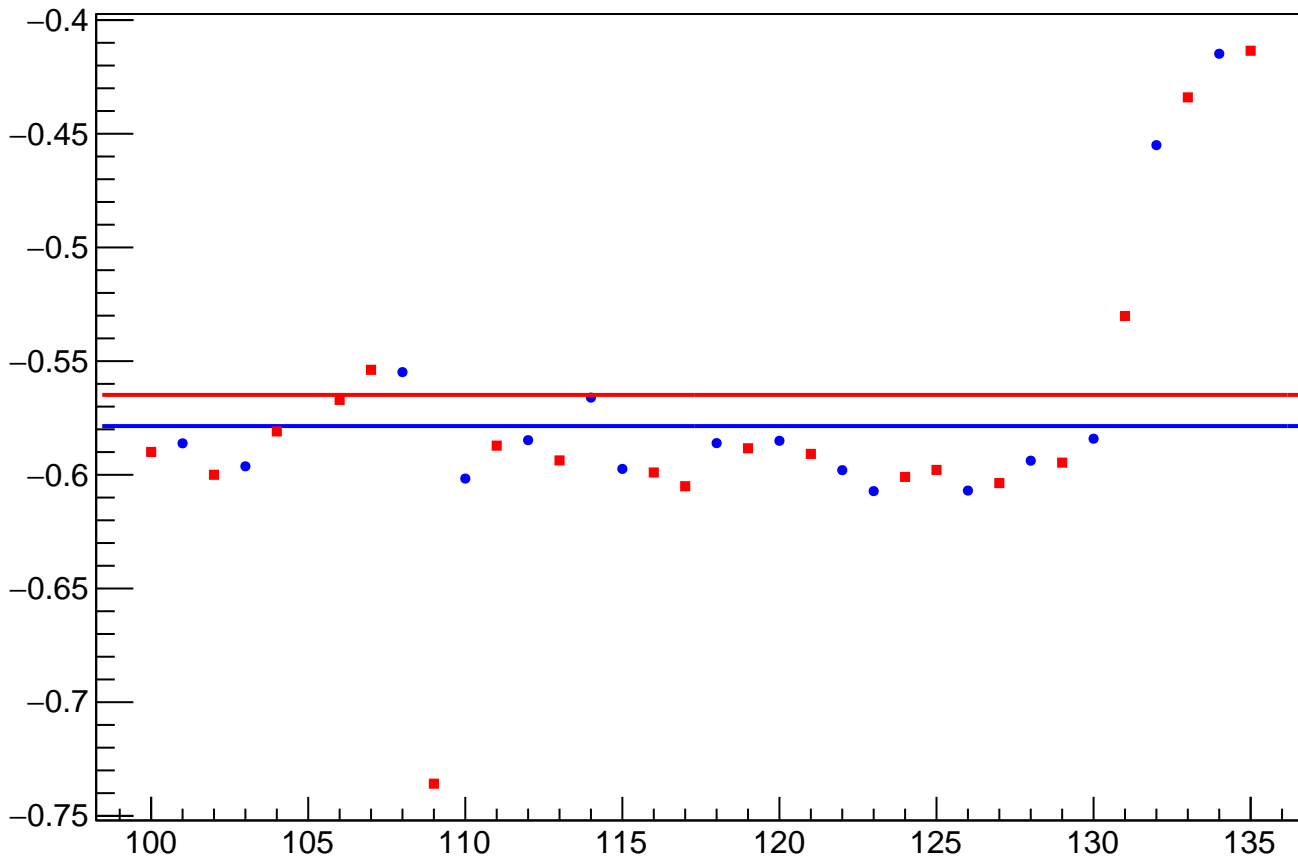
0.000+/-0.000  $\chi^2/\text{NDF}$ : 8410192.8/15

0.000+/-0.000  $\chi^2/\text{NDF}$ : 17634835.6/34

0.000+/-0.000  $\chi^2/\text{NDF}$ : 9224066.5/18



# yield\_bpm4aX\_mean vs Slug, Sign Corrected



Right In: -0.579+/-0.000  $\chi^2$ /NDF: 14703225.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.565+/-0.000  $\chi^2$ /NDF: 58847196.7/18

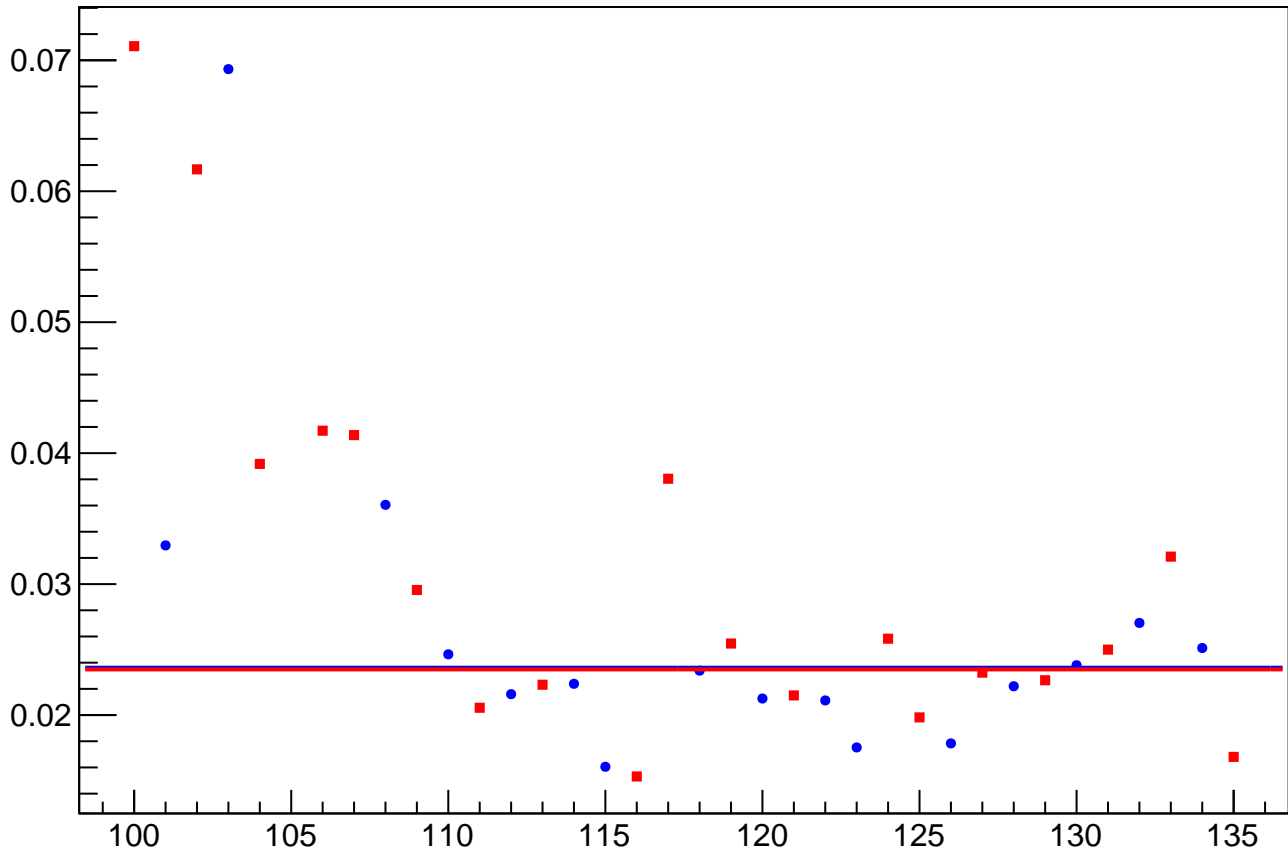
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.579+/-0.000  $\chi^2$ /NDF: 14703225.9/15

-0.571+/-0.000  $\chi^2$ /NDF: 74365273.7/34

-0.565+/-0.000  $\chi^2$ /NDF: 58847196.7/18

# yield\_bpm4aX\_rms vs Slug, Sign Corrected



Right In: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 788545.0/15

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

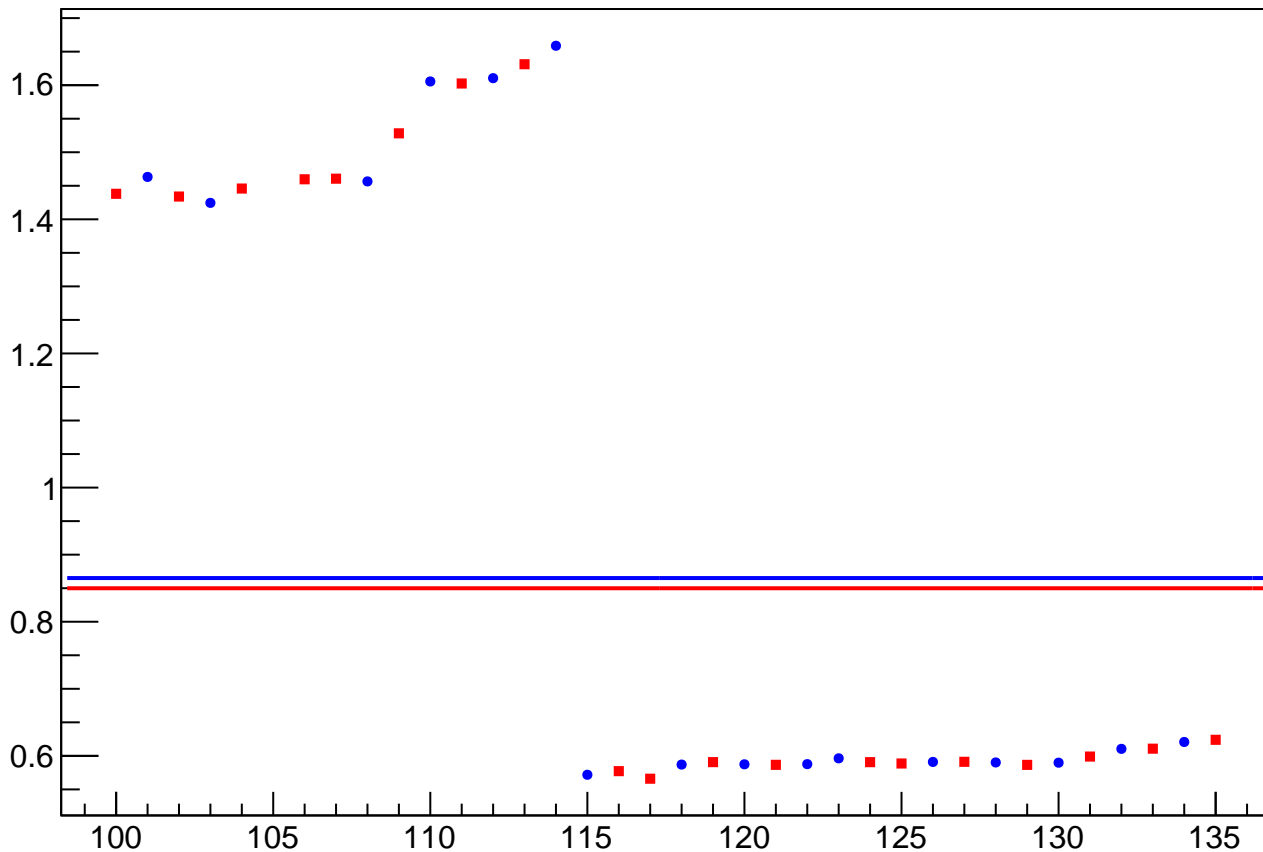
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.024+/-0.000  $\chi^2/\text{NDF}$ : 788545.0/15

0.024+/-0.000  $\chi^2/\text{NDF}$ : 1928395.1/34

0.023+/-0.000  $\chi^2/\text{NDF}$ : 1139703.6/18

# yield\_bpm4aY\_mean vs Slug, Sign Corrected



Right In: 0.865+/-0.000  $\chi^2/\text{NDF}$ : 3209068185.9/15

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

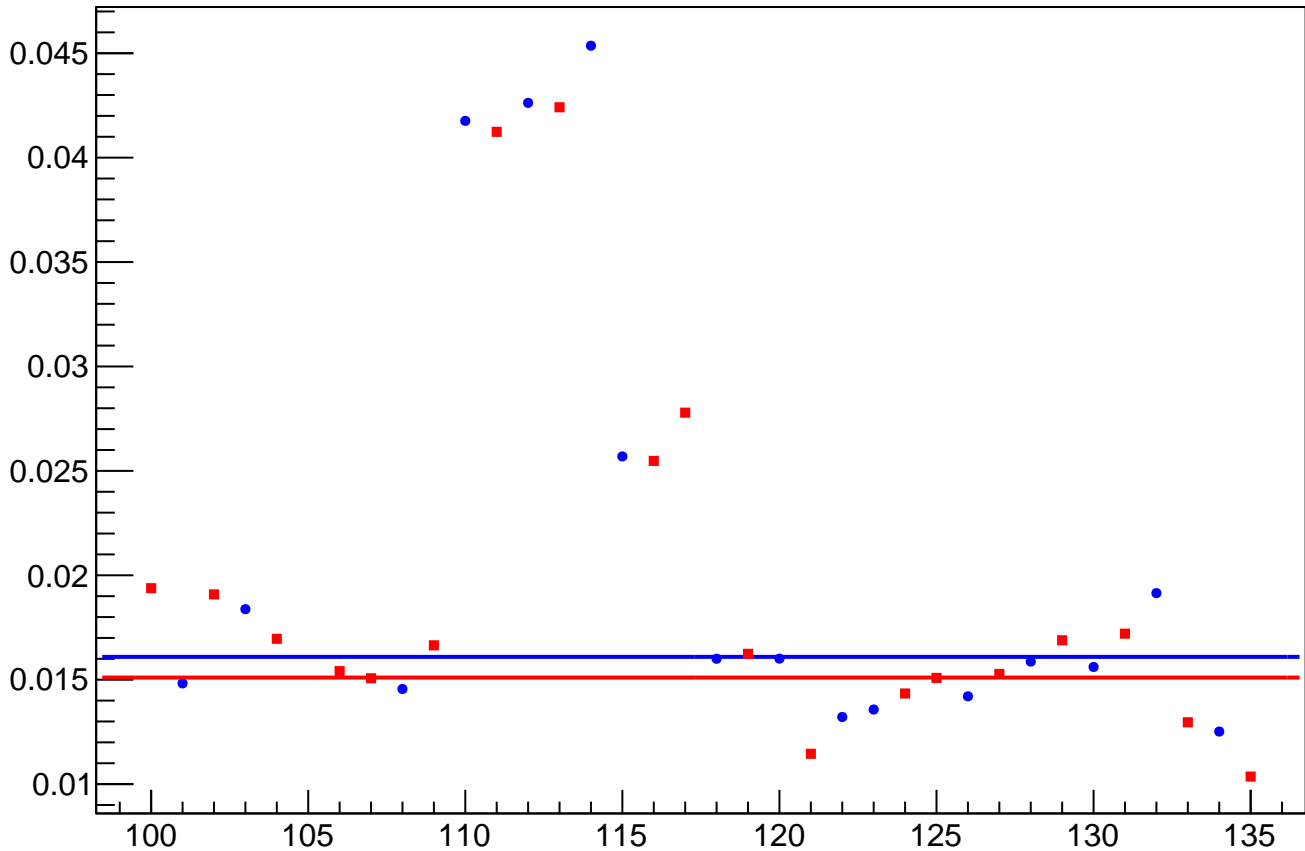
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.865+/-0.000  $\chi^2/\text{NDF}$ : 3209068185.9/15

0.856+/-0.000  $\chi^2/\text{NDF}$ : 7270581069.6/34

0.850+/-0.000  $\chi^2/\text{NDF}$ : 4058931977.8/18

# yield\_bpm4aY\_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 847168.3/15

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

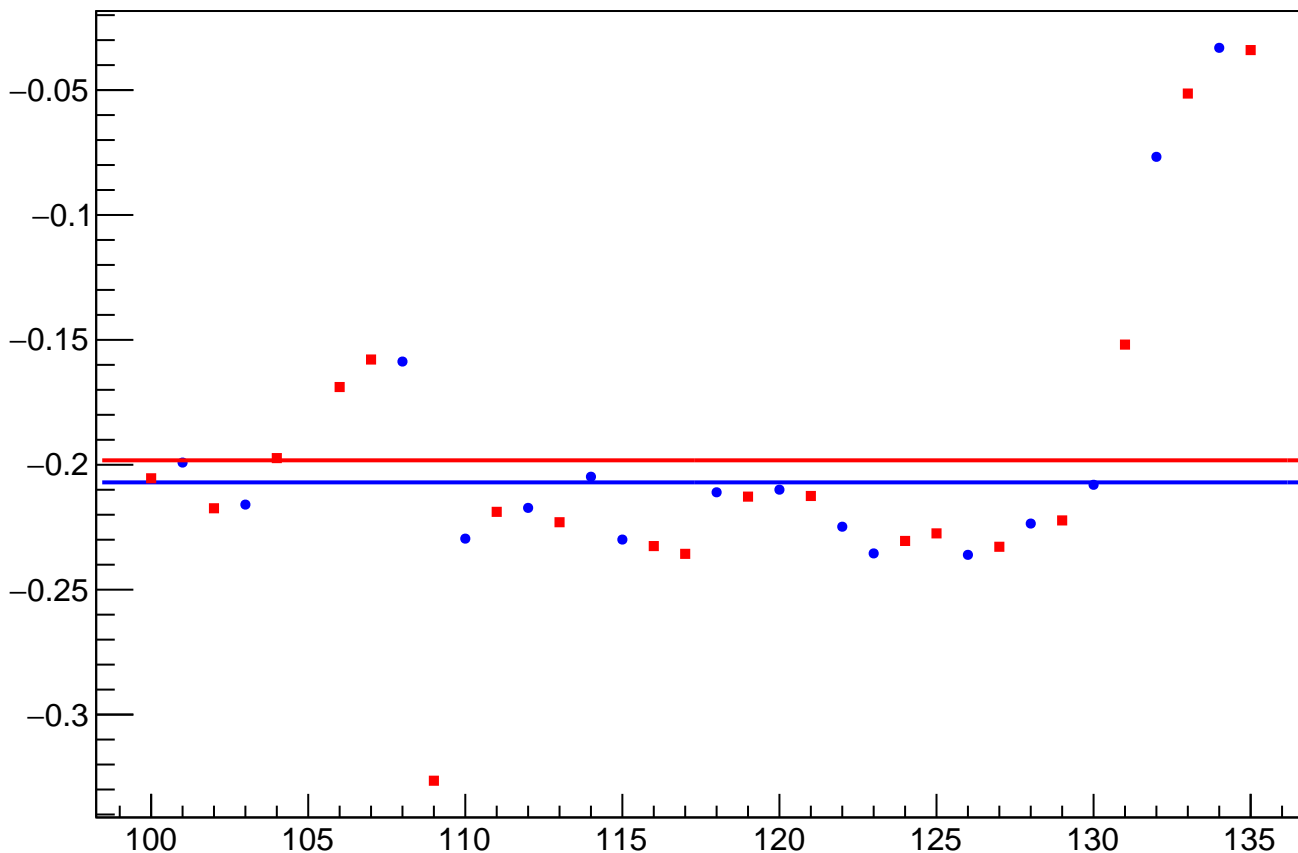
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.016+/-0.000  $\chi^2/\text{NDF}$ : 847168.3/15

0.016+/-0.000  $\chi^2/\text{NDF}$ : 2033120.6/34

0.015+/-0.000  $\chi^2/\text{NDF}$ : 1164038.6/18

# yield\_bpm4eX\_mean vs Slug, Sign Corrected



Right In: -0.207+/-0.000  $\chi^2$ /NDF: 20676511.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.198+/-0.000  $\chi^2$ /NDF: 72858806.1/18

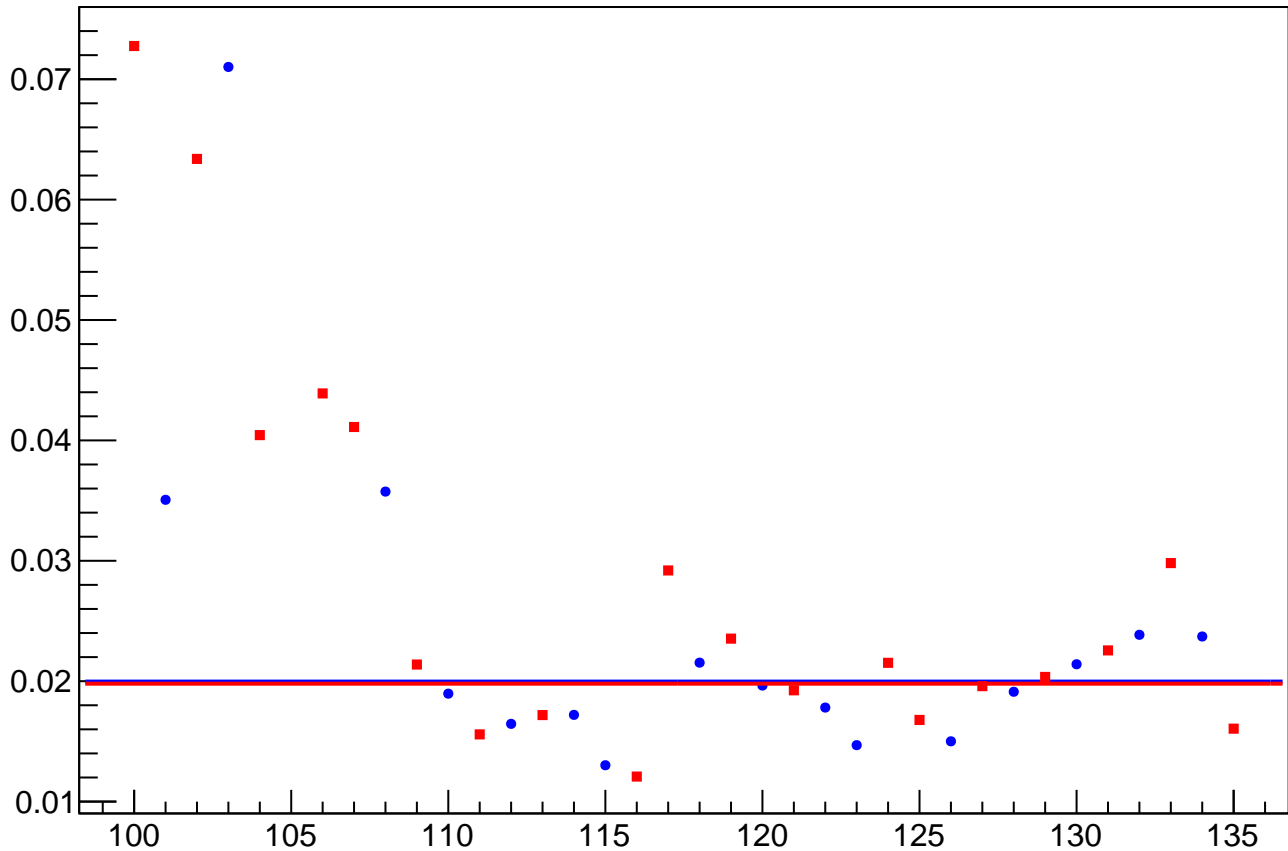
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.207+/-0.000  $\chi^2$ /NDF: 20676511.6/15

-0.202+/-0.000  $\chi^2$ /NDF: 93995524.6/34

-0.198+/-0.000  $\chi^2$ /NDF: 72858806.1/18

# yield\_bpm4eX\_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1097912.1/15

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

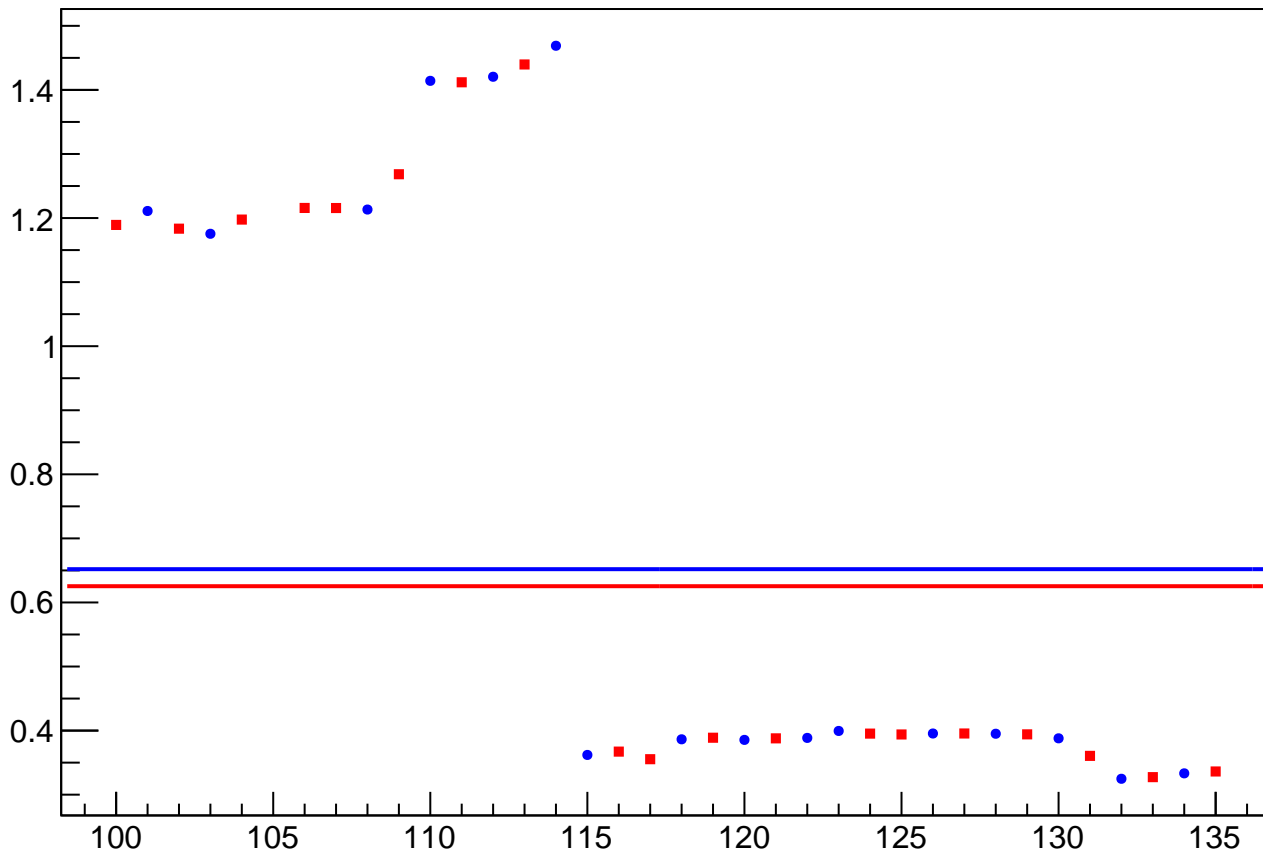
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1097912.1/15

0.020+/-0.000  $\chi^2/\text{NDF}$ : 2545993.9/34

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1447723.6/18

# yield\_bpm4eY\_mean vs Slug, Sign Corrected



Right In: 0.652+/-0.000  $\chi^2/\text{NDF}$ : 4263347348.1/15

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

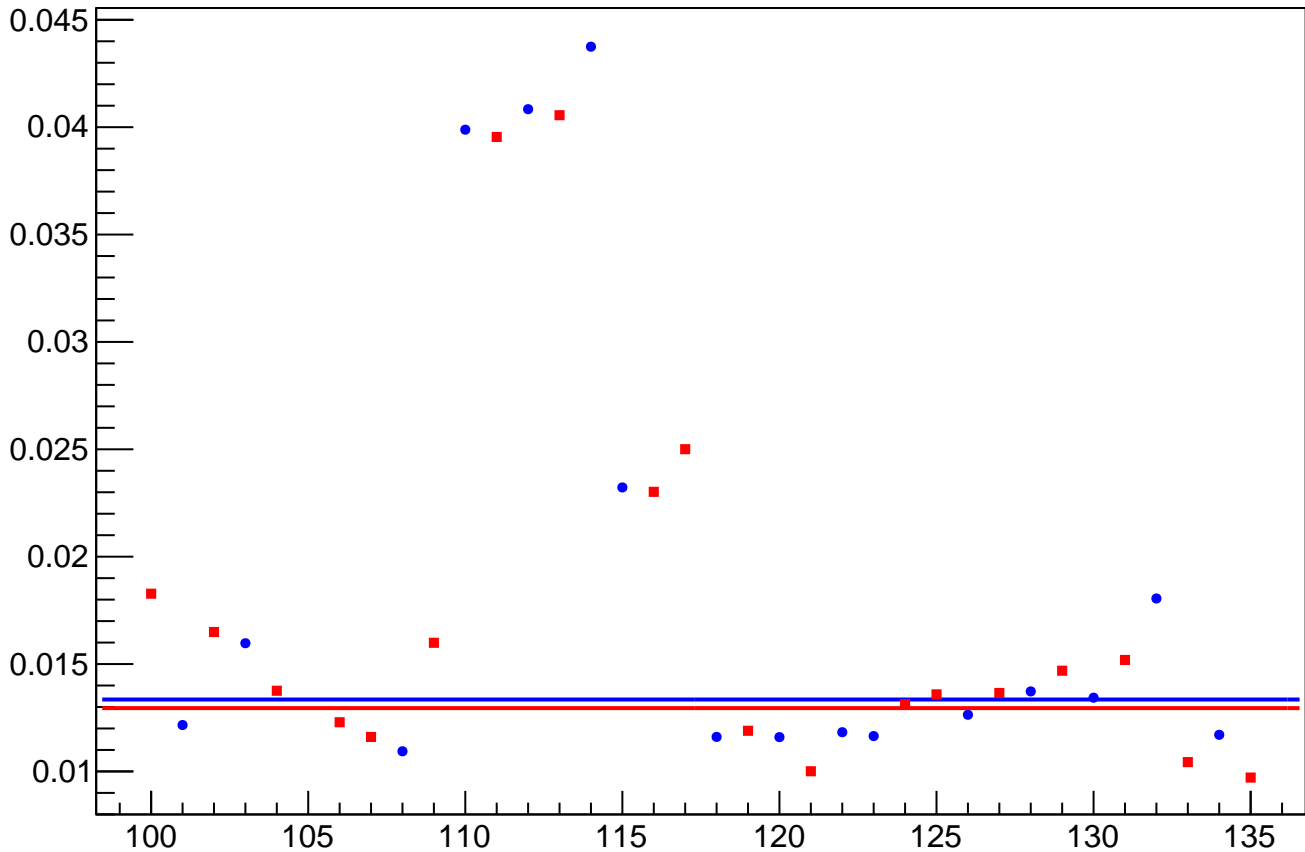
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

0.652+/-0.000  $\chi^2/\text{NDF}$ : 4263347348.1/15

0.637+/-0.000  $\chi^2/\text{NDF}$ : 9598736178.3/34

0.625+/-0.000  $\chi^2/\text{NDF}$ : 5324530703.5/18

# yield\_bpm4eY\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1012354.2/15

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

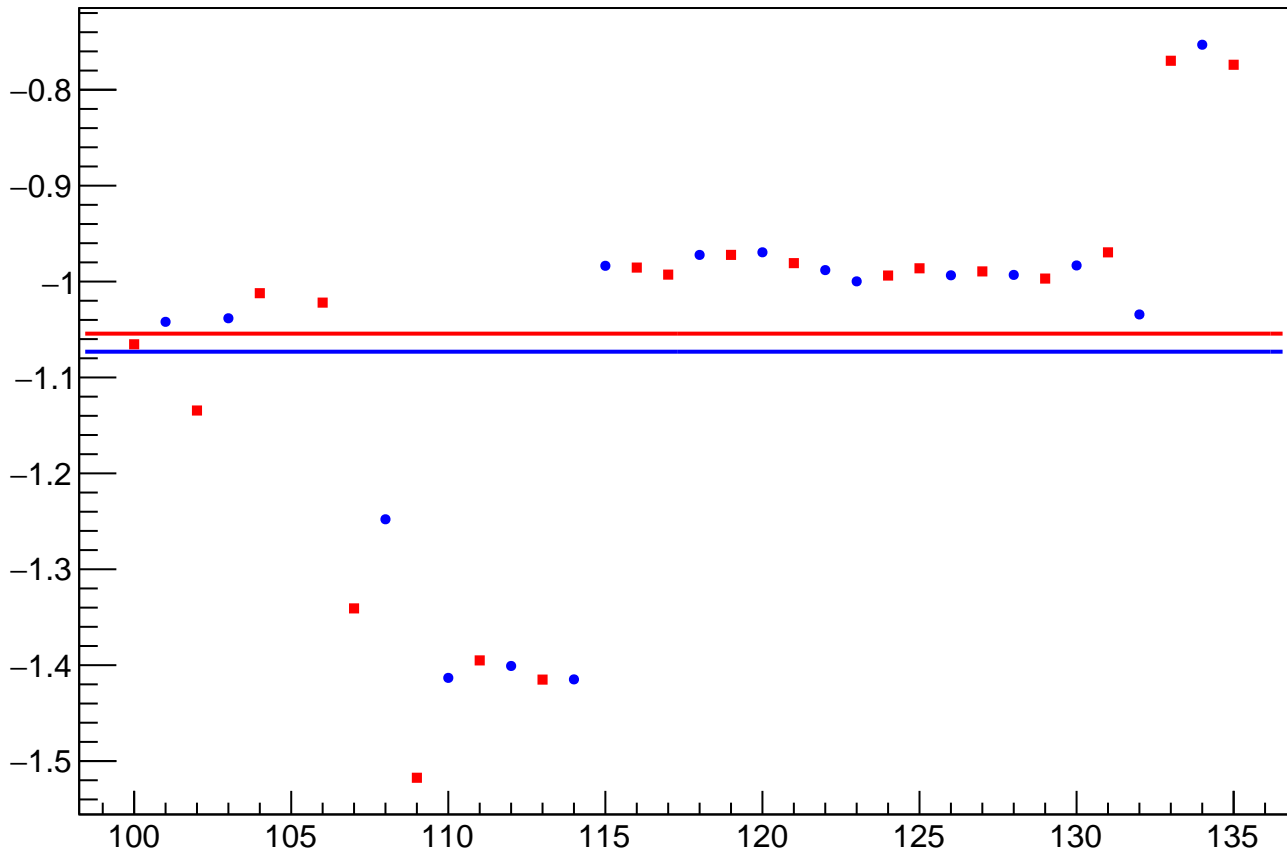
0.013+/-0.000  $\chi^2/\text{NDF}$ : 1012354.2/15

0.013+/-0.000  $\chi^2/\text{NDF}$ : 2230393.0/34

0.013+/-0.000  $\chi^2/\text{NDF}$ : 1213076.6/18



# yield\_bpm4acX\_mean vs Slug, Sign Corrected



Right In: -1.073+/-0.000  $\chi^2$ /NDF: 248628458.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.054+/-0.000  $\chi^2$ /NDF: 500141207.6/18

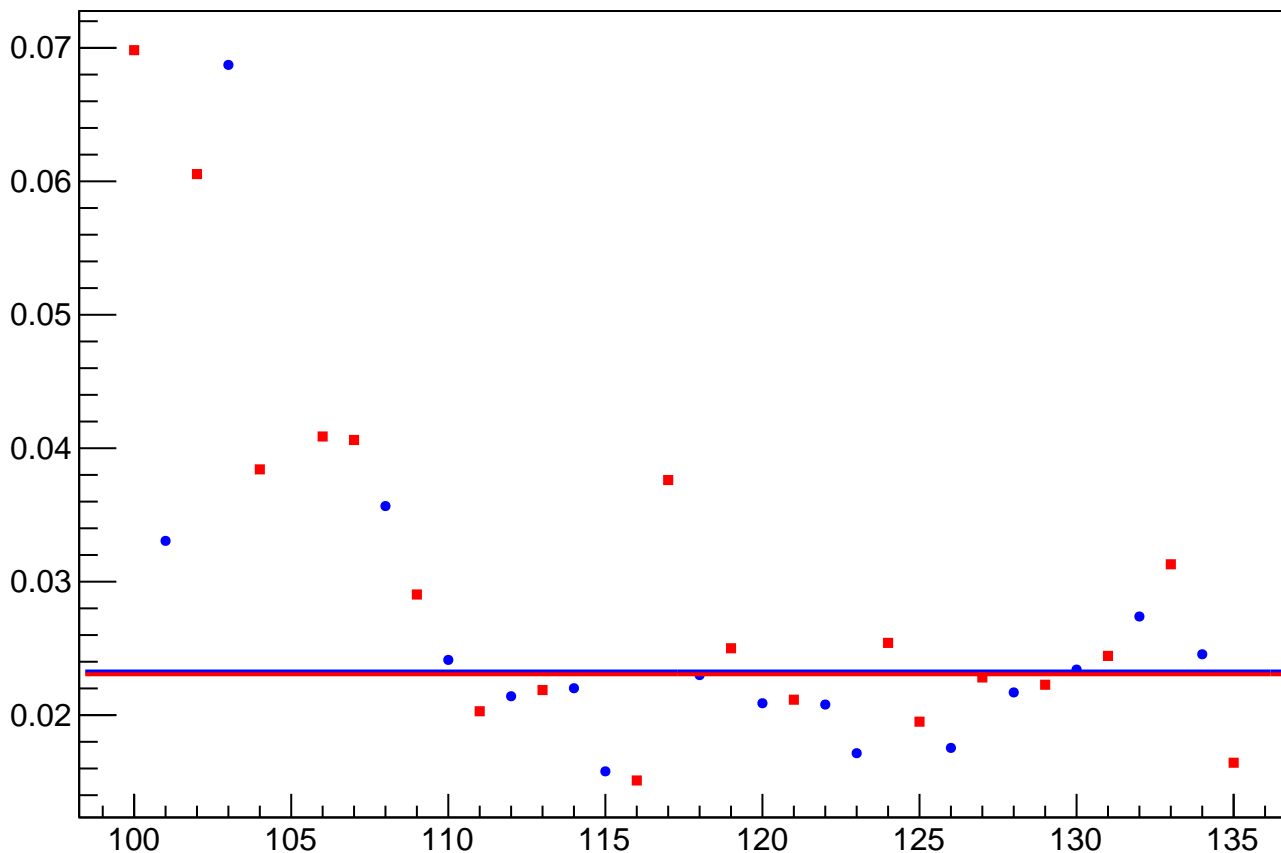
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-1.073+/-0.000  $\chi^2$ /NDF: 248628458.8/15

-1.063+/-0.000  $\chi^2$ /NDF: 750353593.1/34

-1.054+/-0.000  $\chi^2$ /NDF: 500141207.6/18

# yield\_bpm4acX\_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 804345.4/15

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

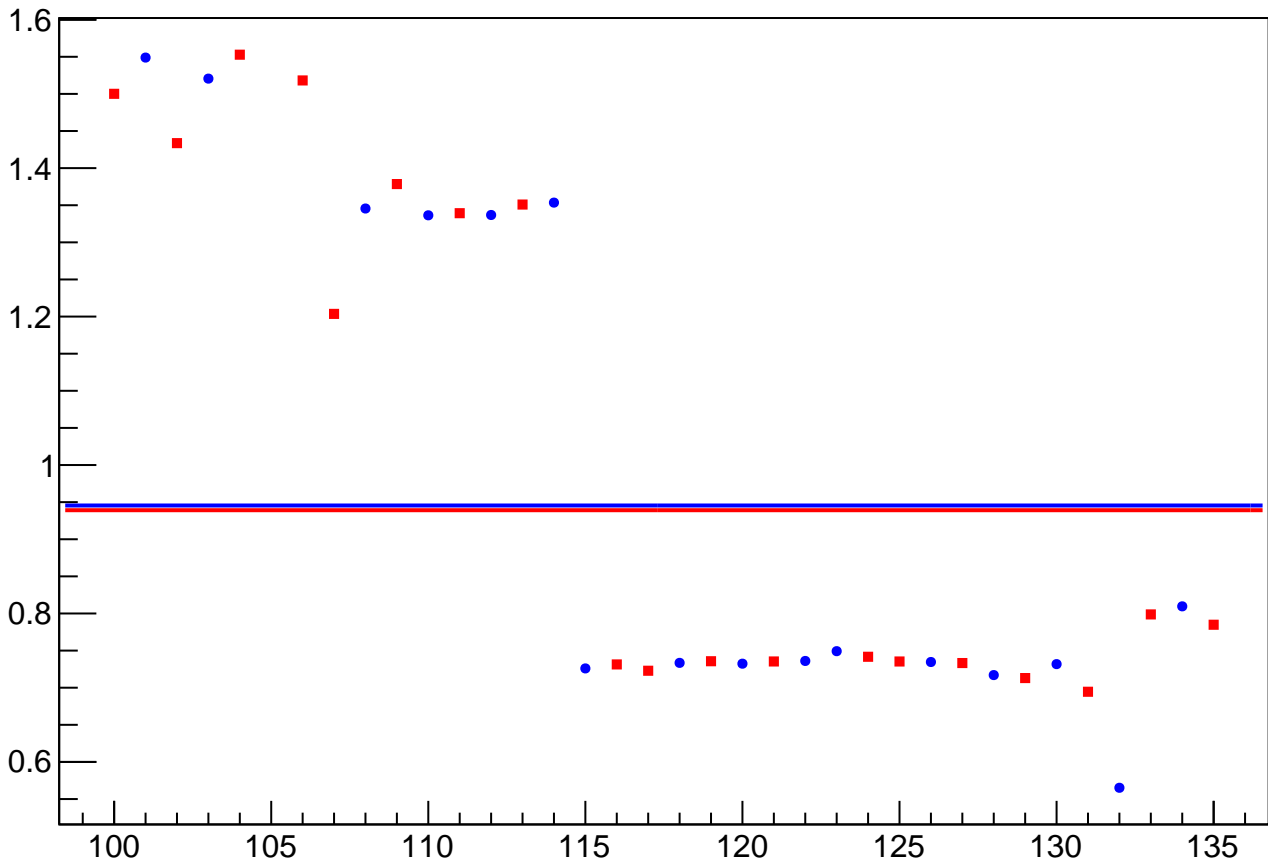
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

0.023+/-0.000  $\chi^2/\text{NDF}$ : 804345.4/15

0.023+/-0.000  $\chi^2/\text{NDF}$ : 1939975.2/34

0.023+/-0.000  $\chi^2/\text{NDF}$ : 1135246.9/18

# yield\_bpm4acY\_mean vs Slug, Sign Corrected



Right In: 0.945+/-0.000  $\chi^2/\text{NDF}$ : 2250114738.5/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.939+/-0.000  $\chi^2/\text{NDF}$ : 2394931153.5/18

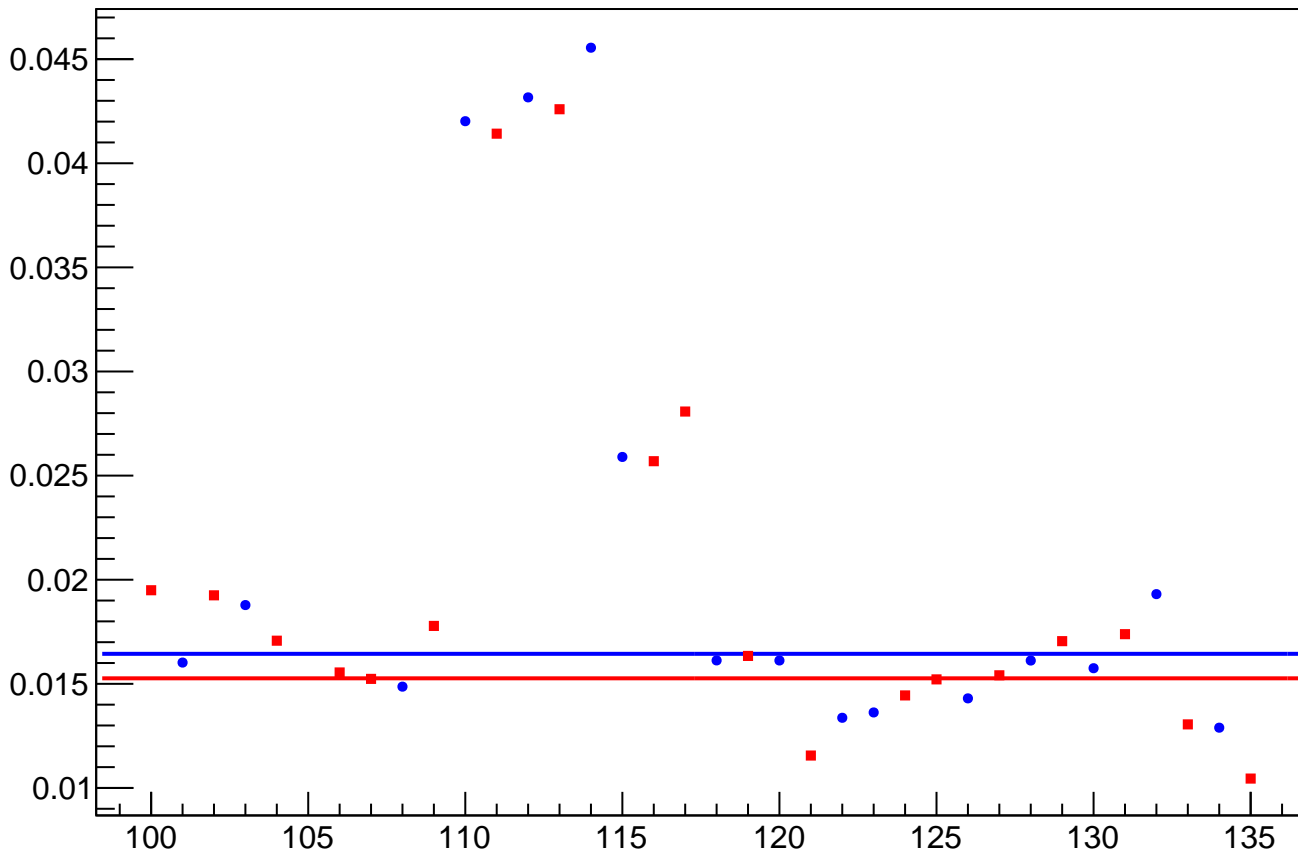
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.945+/-0.000  $\chi^2/\text{NDF}$ : 2250114738.5/15

0.942+/-0.000  $\chi^2/\text{NDF}$ : 4645480288.2/34

0.939+/-0.000  $\chi^2/\text{NDF}$ : 2394931153.5/18

# yield\_bpm4acY\_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 834052.9/15

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

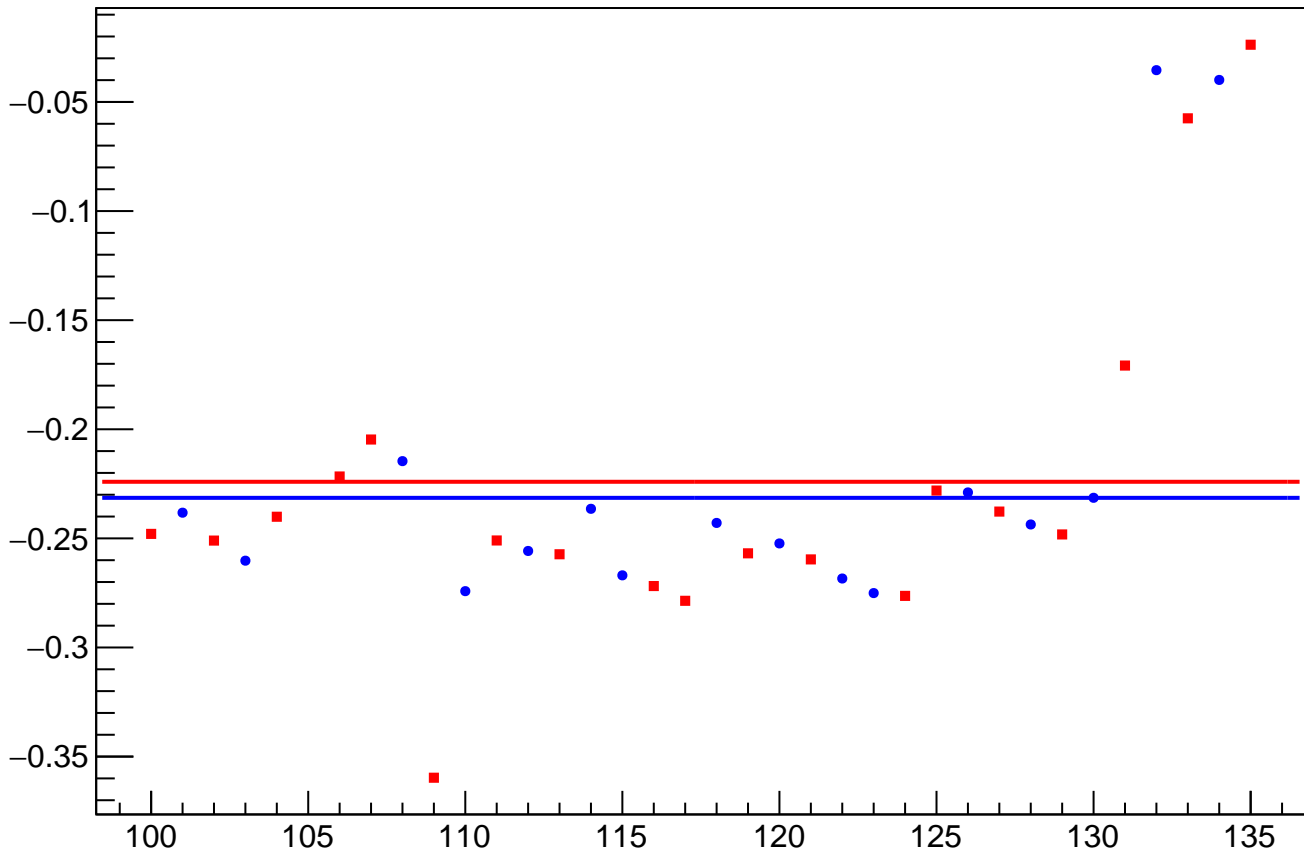
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.016+/-0.000  $\chi^2/\text{NDF}$ : 834052.9/15

0.016+/-0.000  $\chi^2/\text{NDF}$ : 2032675.3/34

0.015+/-0.000  $\chi^2/\text{NDF}$ : 1168835.8/18

# yield\_bpm4ecX\_mean vs Slug, Sign Corrected



Right In: -0.231+/-0.000  $\chi^2$ /NDF: 38219086.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.224+/-0.000  $\chi^2$ /NDF: 95193136.5/18

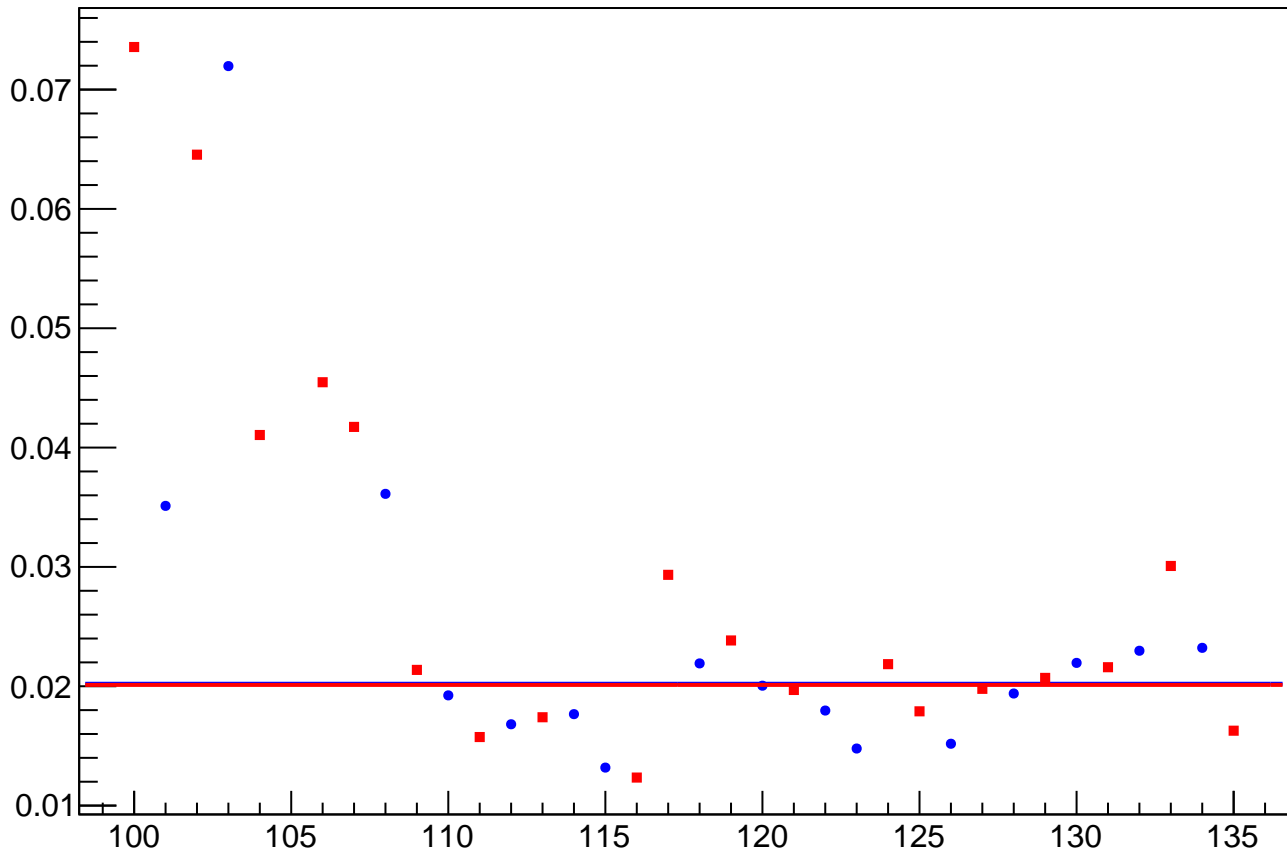
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.231+/-0.000  $\chi^2$ /NDF: 38219086.4/15

-0.227+/-0.000  $\chi^2$ /NDF: 133723187.6/34

-0.224+/-0.000  $\chi^2$ /NDF: 95193136.5/18

# yield\_bpm4ecX\_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1077338.5/15

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

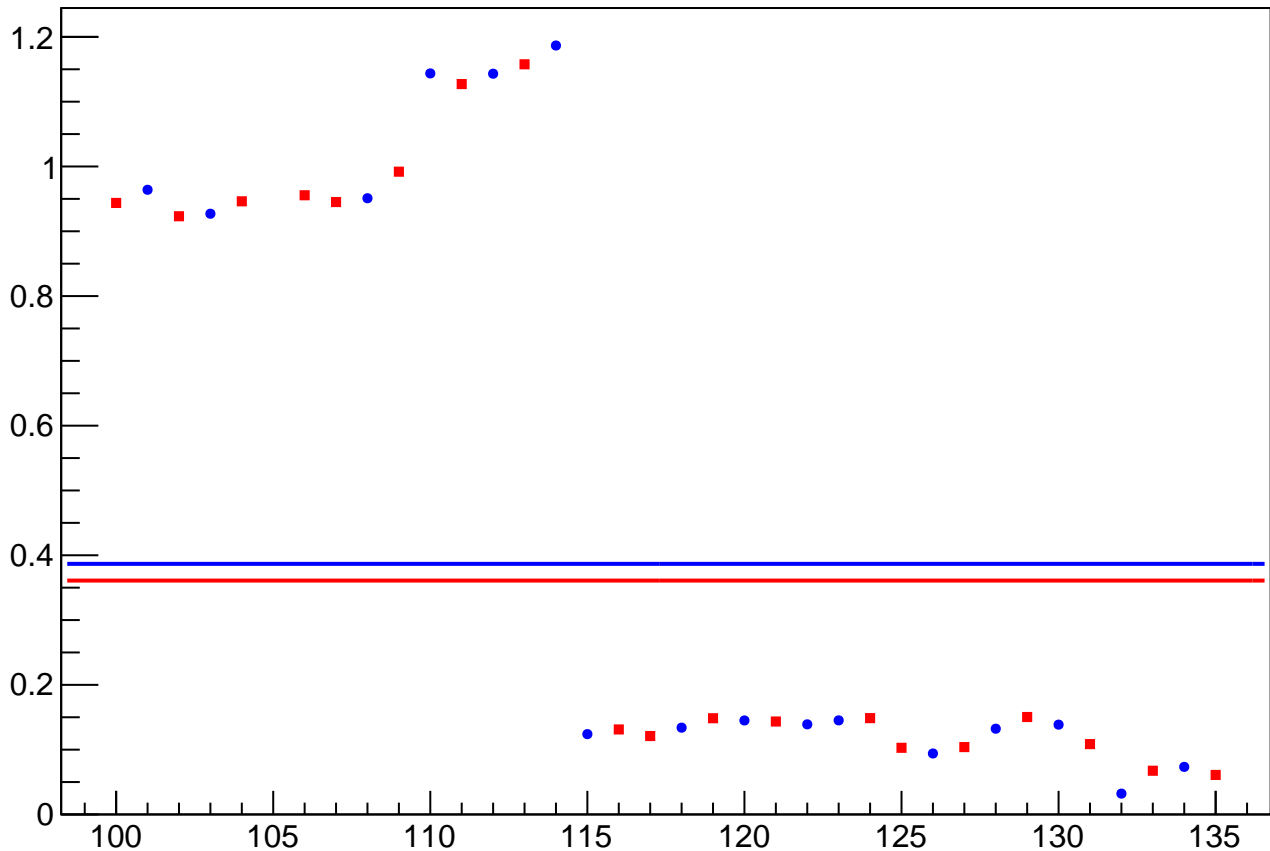
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1077338.5/15

0.020+/-0.000  $\chi^2/\text{NDF}$ : 2511272.4/34

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1433829.3/18

# yield\_bpm4ecY\_mean vs Slug, Sign Corrected



Right In: 0.387+/-0.000  $\chi^2/\text{NDF}$ : 4372688906.2/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.361+/-0.000  $\chi^2/\text{NDF}$ : 5246228414.4/18

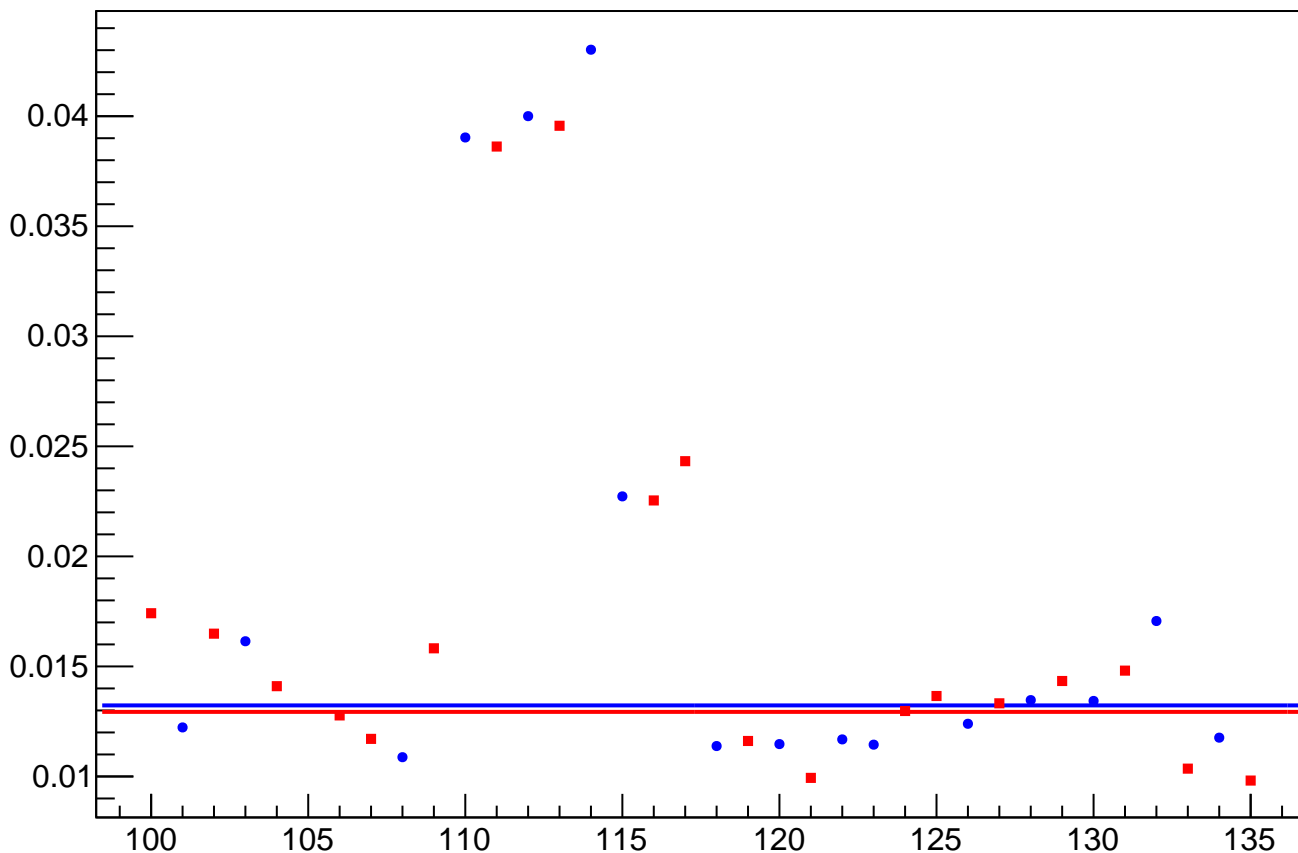
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.387+/-0.000  $\chi^2/\text{NDF}$ : 4372688906.2/15

0.373+/-0.000  $\chi^2/\text{NDF}$ : 9629267569.3/34

0.361+/-0.000  $\chi^2/\text{NDF}$ : 5246228414.4/18

# yield\_bpm4ecY\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 995872.9/15

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

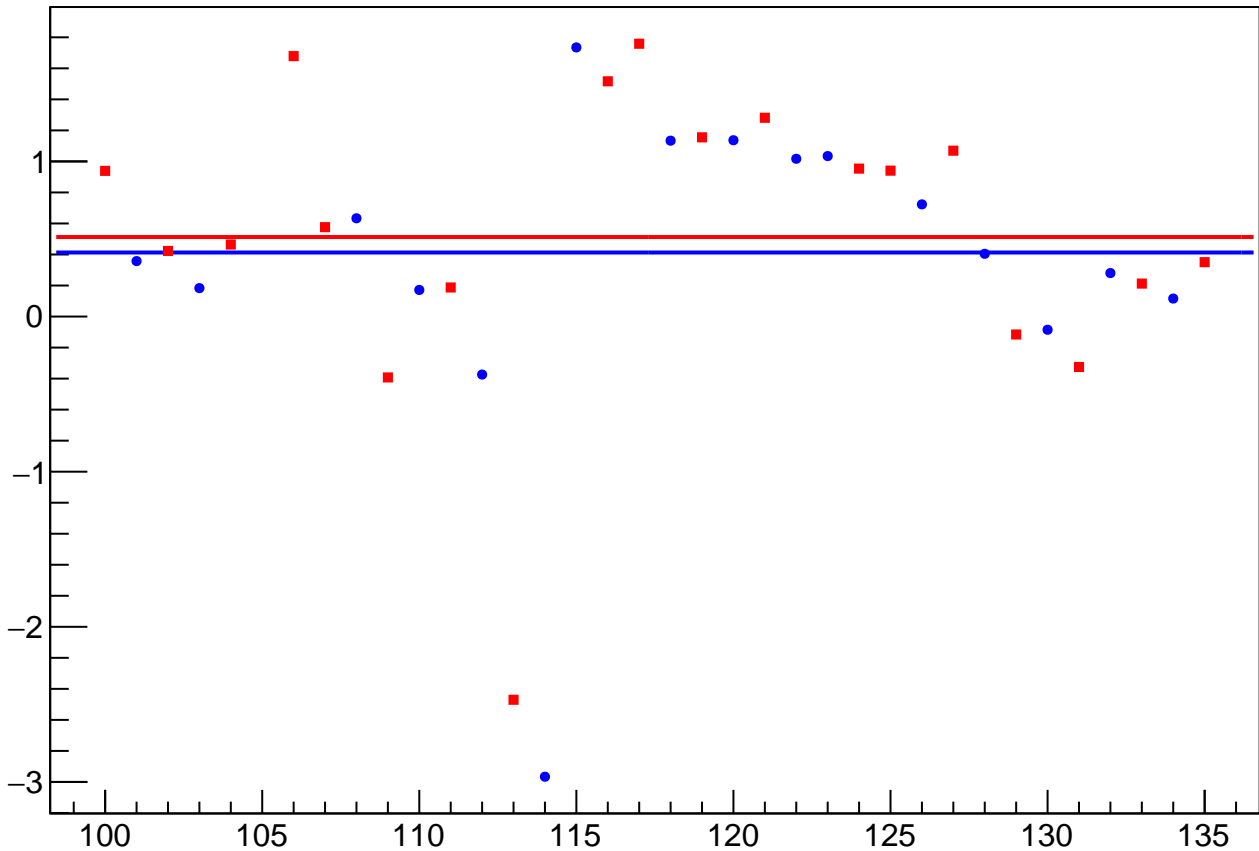
0.013+/-0.000  $\chi^2/\text{NDF}$ : 995872.9/15

0.013+/-0.000  $\chi^2/\text{NDF}$ : 2174465.2/34

0.013+/-0.000  $\chi^2/\text{NDF}$ : 1175904.9/18



# yield\_bpm1X\_mean vs Slug, Sign Corrected



Right In: 0.413+/-0.000  $\chi^2/\text{NDF}$ : 232199051.2/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.513+/-0.000  $\chi^2/\text{NDF}$ : 993423203.7/18

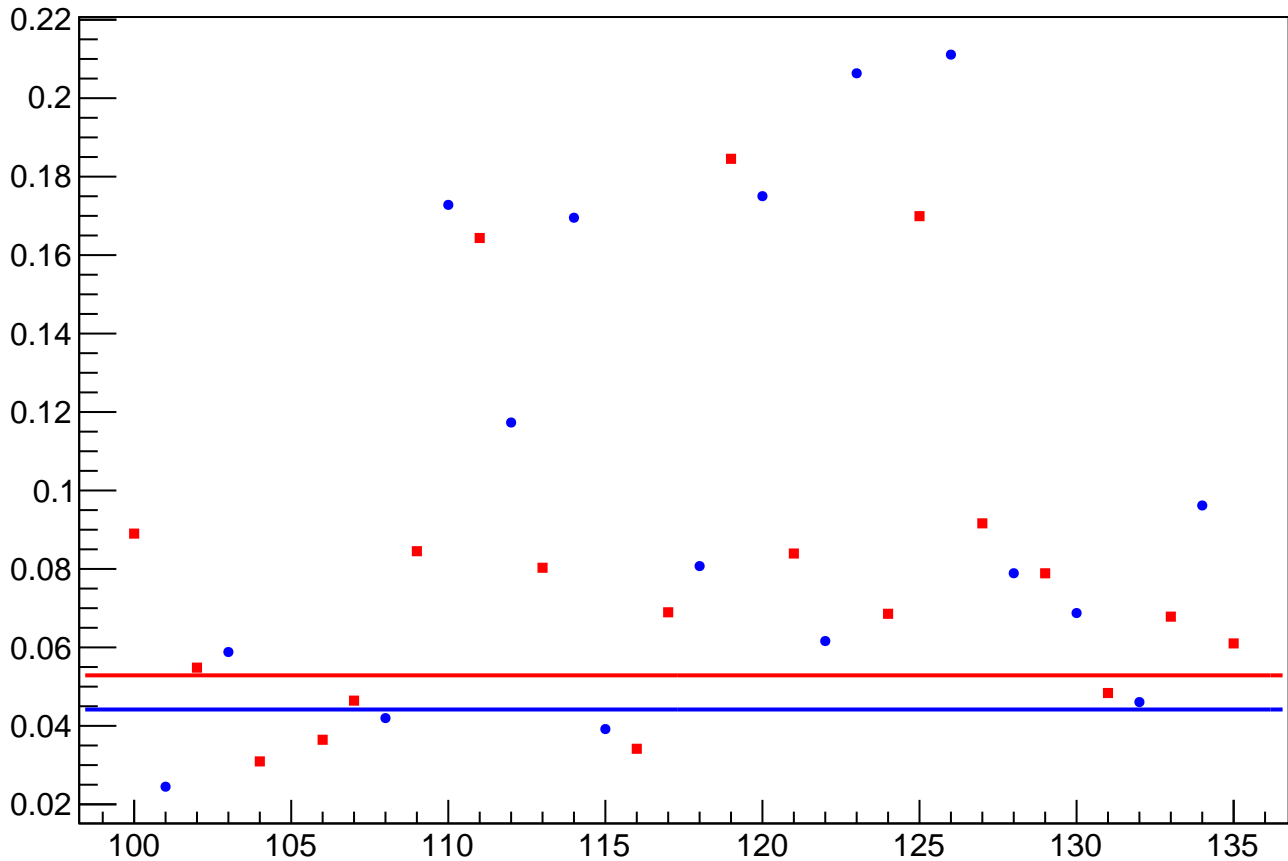
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.413+/-0.000  $\chi^2/\text{NDF}$ : 232199051.2/15

0.460+/-0.000  $\chi^2/\text{NDF}$ : 1233221696.2/34

0.513+/-0.000  $\chi^2/\text{NDF}$ : 993423203.7/18

# yield\_bpm1X\_rms vs Slug, Sign Corrected



Right In: 0.044+/-0.000  $\chi^2/\text{NDF}$ : 2764798.2/15

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

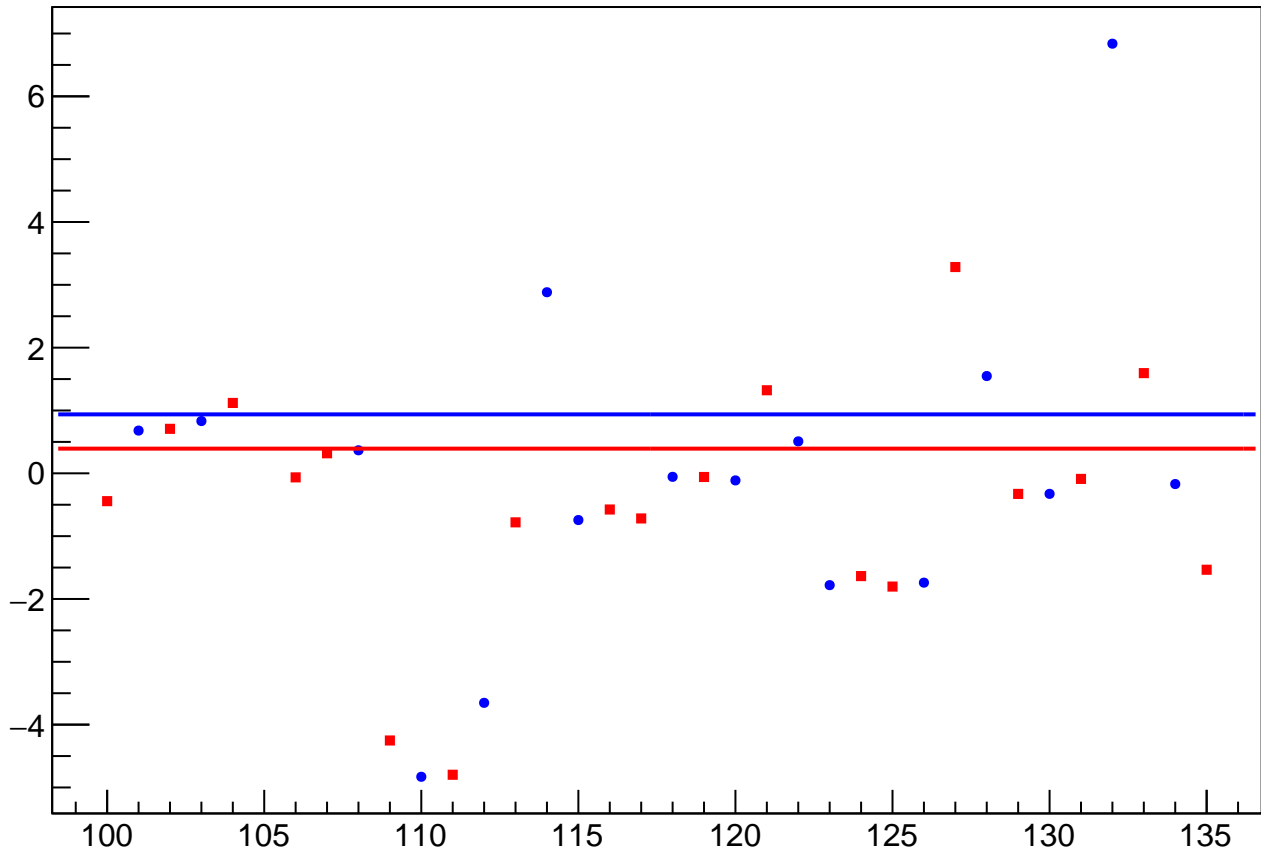
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.044+/-0.000  $\chi^2/\text{NDF}$ : 2764798.2/15

0.048+/-0.000  $\chi^2/\text{NDF}$ : 5073543.6/34

0.053+/-0.000  $\chi^2/\text{NDF}$ : 2192914.8/18

# yield\_bpm1Y\_mean vs Slug, Sign Corrected



Right In: 0.938+/-0.000  $\chi^2/\text{NDF}$ : 10069458371.1/15

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

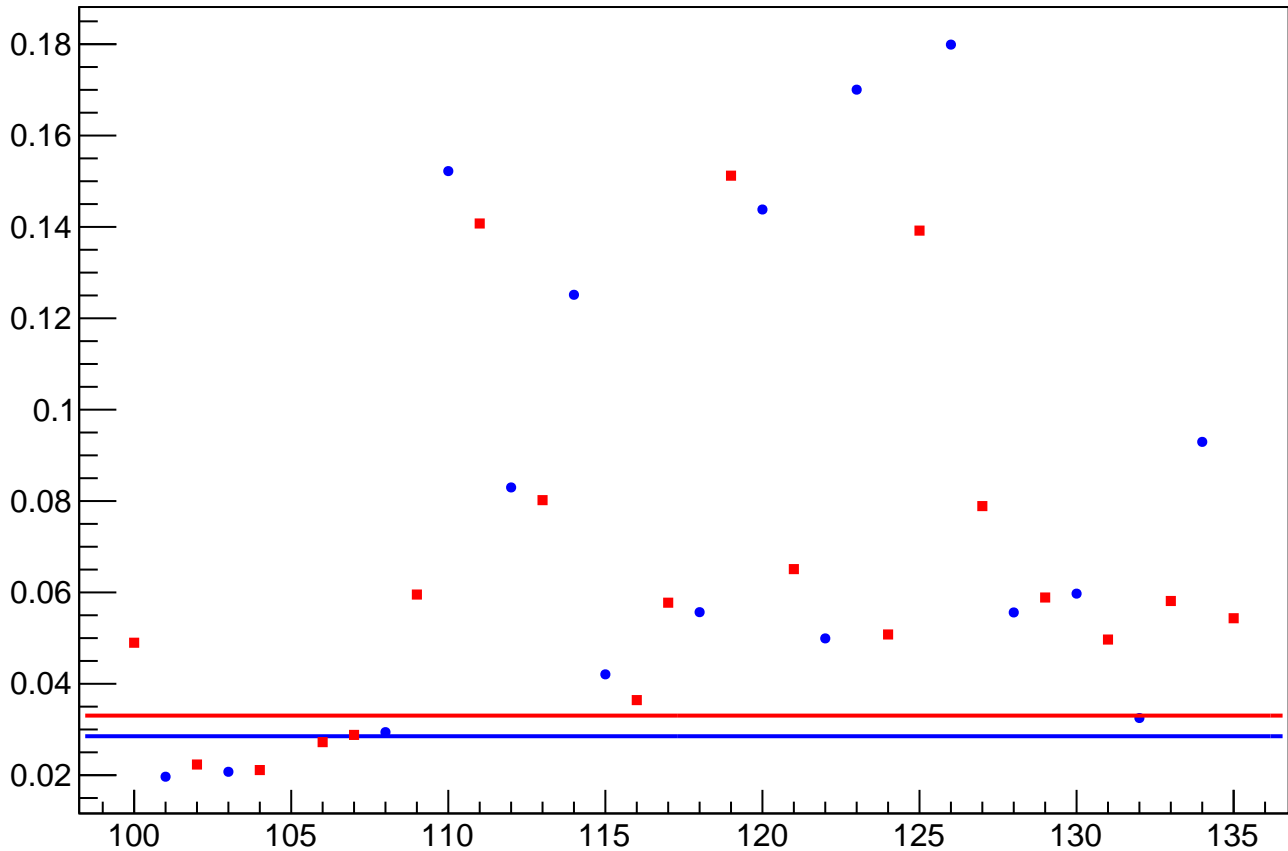
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.938+/-0.000  $\chi^2/\text{NDF}$ : 10069458371.1/15

0.675+/-0.000  $\chi^2/\text{NDF}$ : 15437524532.1/3

0.393+/-0.000  $\chi^2/\text{NDF}$ : 4834226418.1/18

# yield\_bpm1Y\_rms vs Slug, Sign Corrected



Right In: 0.029+/-0.000  $\chi^2/\text{NDF}$ : 2887674.2/15

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

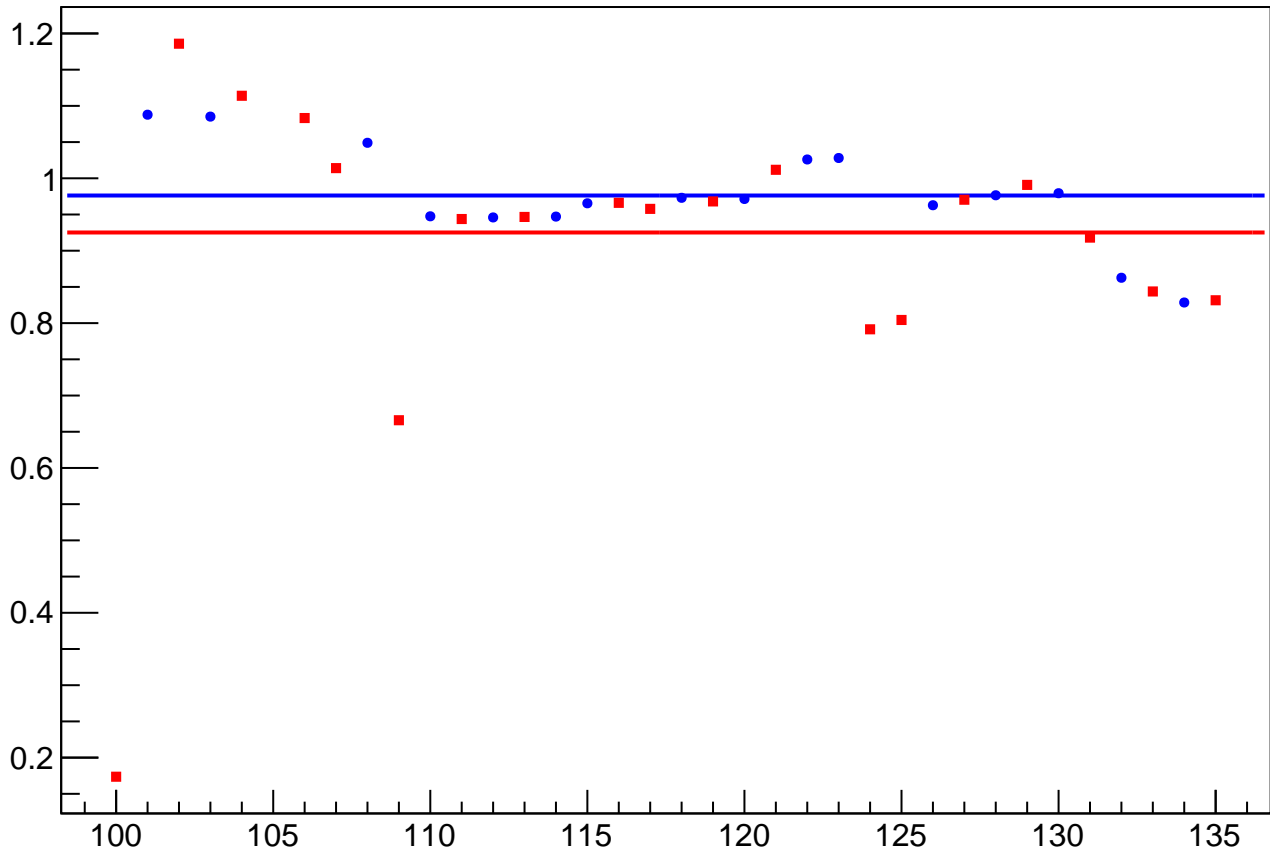
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.029+/-0.000  $\chi^2/\text{NDF}$ : 2887674.2/15

0.031+/-0.000  $\chi^2/\text{NDF}$ : 6052451.8/34

0.033+/-0.000  $\chi^2/\text{NDF}$ : 3091638.2/18

# yield\_bpm11X\_mean vs Slug, Sign Corrected



Right In: 0.976+/-0.000  $\chi^2/\text{NDF}$ : 88898833.4/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.925+/-0.000  $\chi^2/\text{NDF}$ : 363954057.6/18

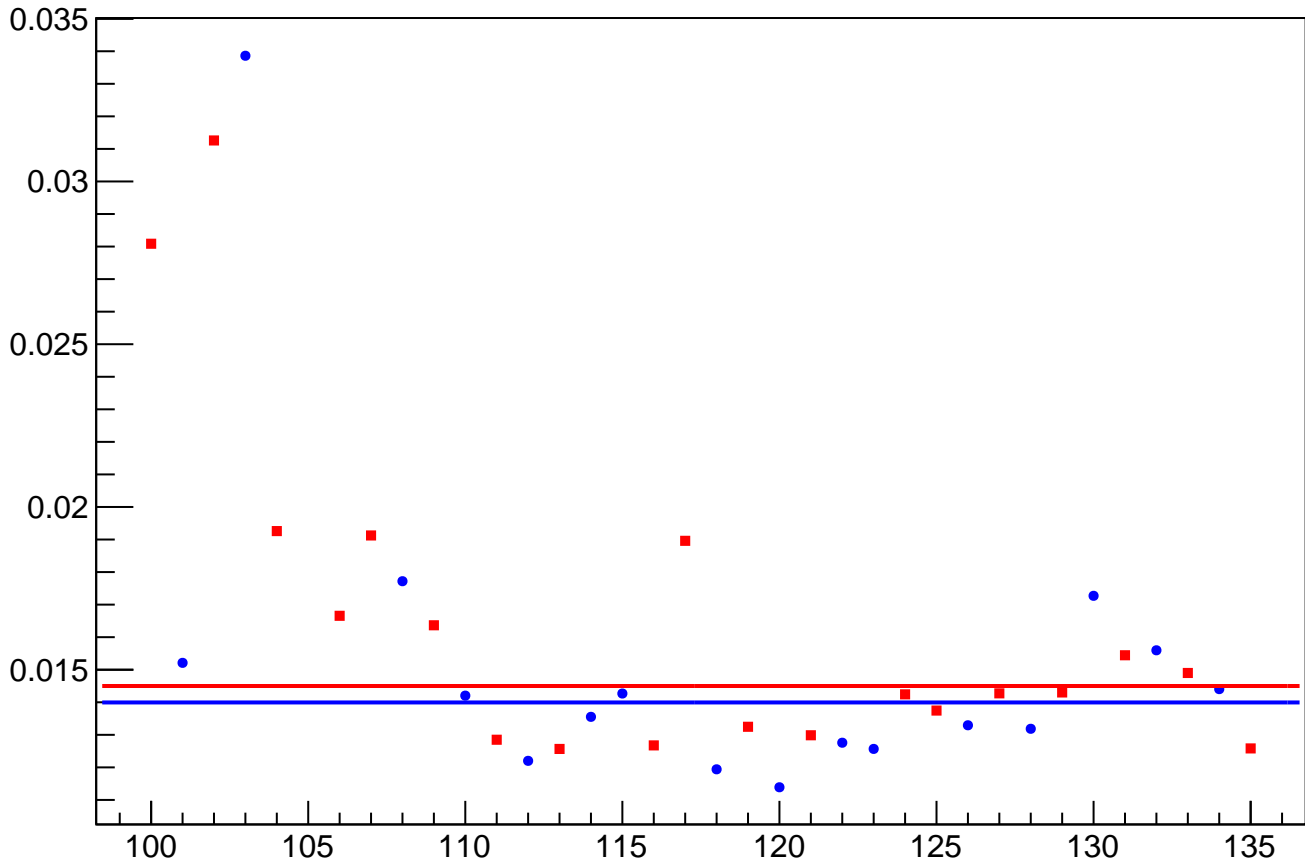
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.976+/-0.000  $\chi^2/\text{NDF}$ : 88898833.4/15

0.949+/-0.000  $\chi^2/\text{NDF}$ : 487808008.7/34

0.925+/-0.000  $\chi^2/\text{NDF}$ : 363954057.6/18

# yield\_bpm11X\_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 520391.2/15

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

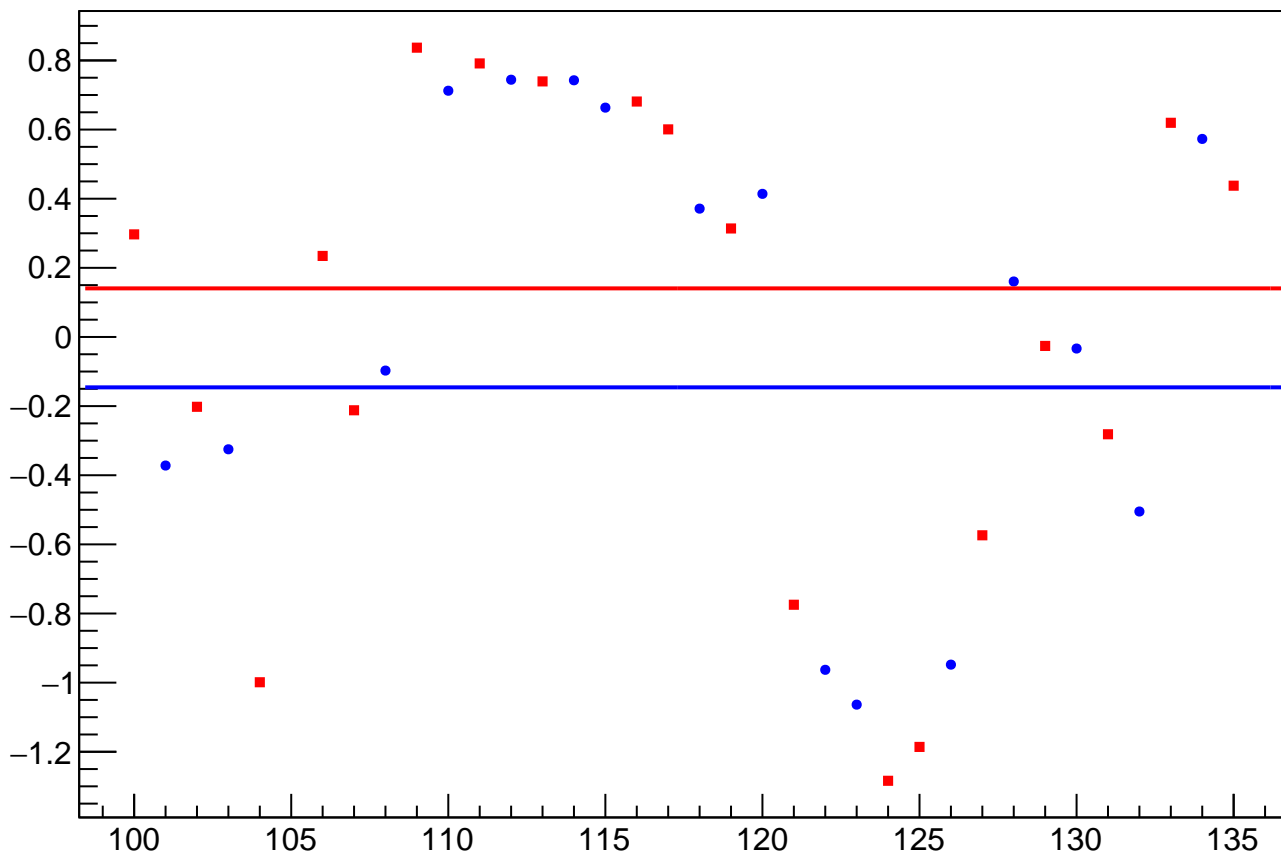
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 520391.2/15

0.014+/-0.000  $\chi^2/\text{NDF}$ : 1024191.7/34

0.014+/-0.000  $\chi^2/\text{NDF}$ : 496957.5/18

# yield\_bpm11Y\_mean vs Slug, Sign Corrected



Right In:  $-0.146 \pm 0.000$   $\chi^2/\text{NDF}: 4949216302.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.141 \pm 0.000$   $\chi^2/\text{NDF}: 12606965284.5/18$

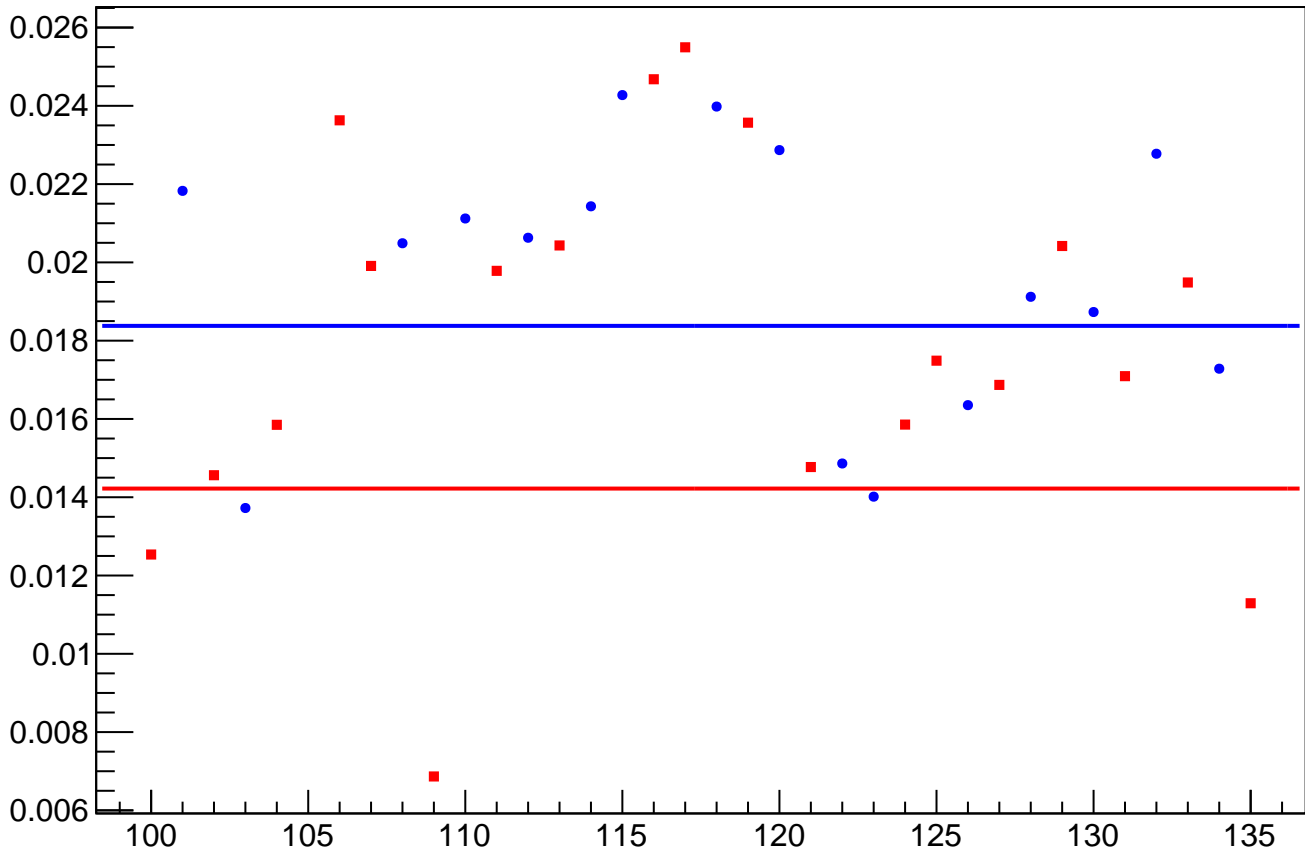
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.146 \pm 0.000$   $\chi^2/\text{NDF}: 4949216302.8/15$

$0.037 \pm 0.000$   $\chi^2/\text{NDF}: 18359734300.8/3$

$0.141 \pm 0.000$   $\chi^2/\text{NDF}: 12606965284.5/18$

# yield\_bpm11Y\_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 359407.7/15

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

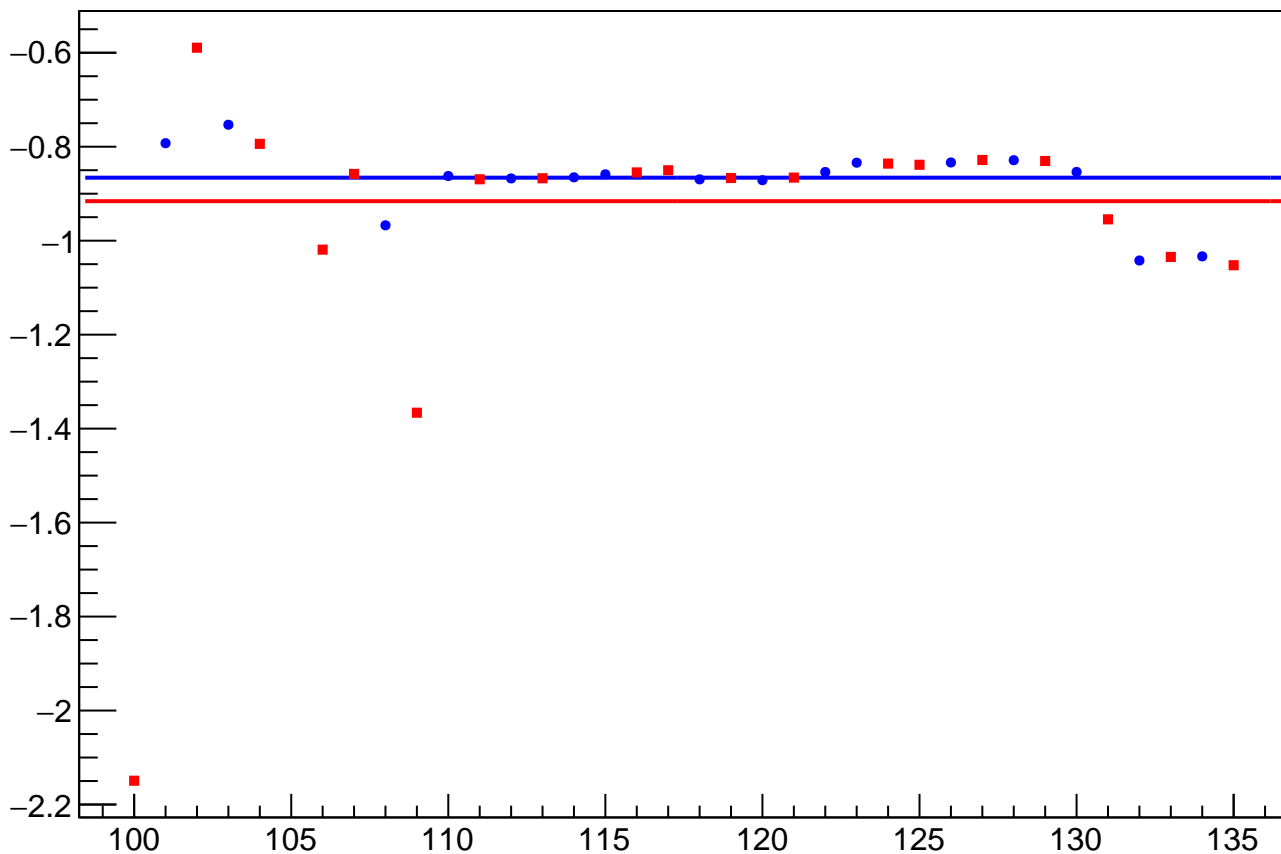
0.018+/-0.000  $\chi^2/\text{NDF}$ : 359407.7/15

0.016+/-0.000  $\chi^2/\text{NDF}$ : 2234534.3/34

0.014+/-0.000  $\chi^2/\text{NDF}$ : 1536418.3/18



# yield\_bpm12X\_mean vs Slug, Sign Corrected



Right In: -0.866+/-0.000  $\chi^2$ /NDF: 19854304.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.916+/-0.000  $\chi^2$ /NDF: 128336159.1/18

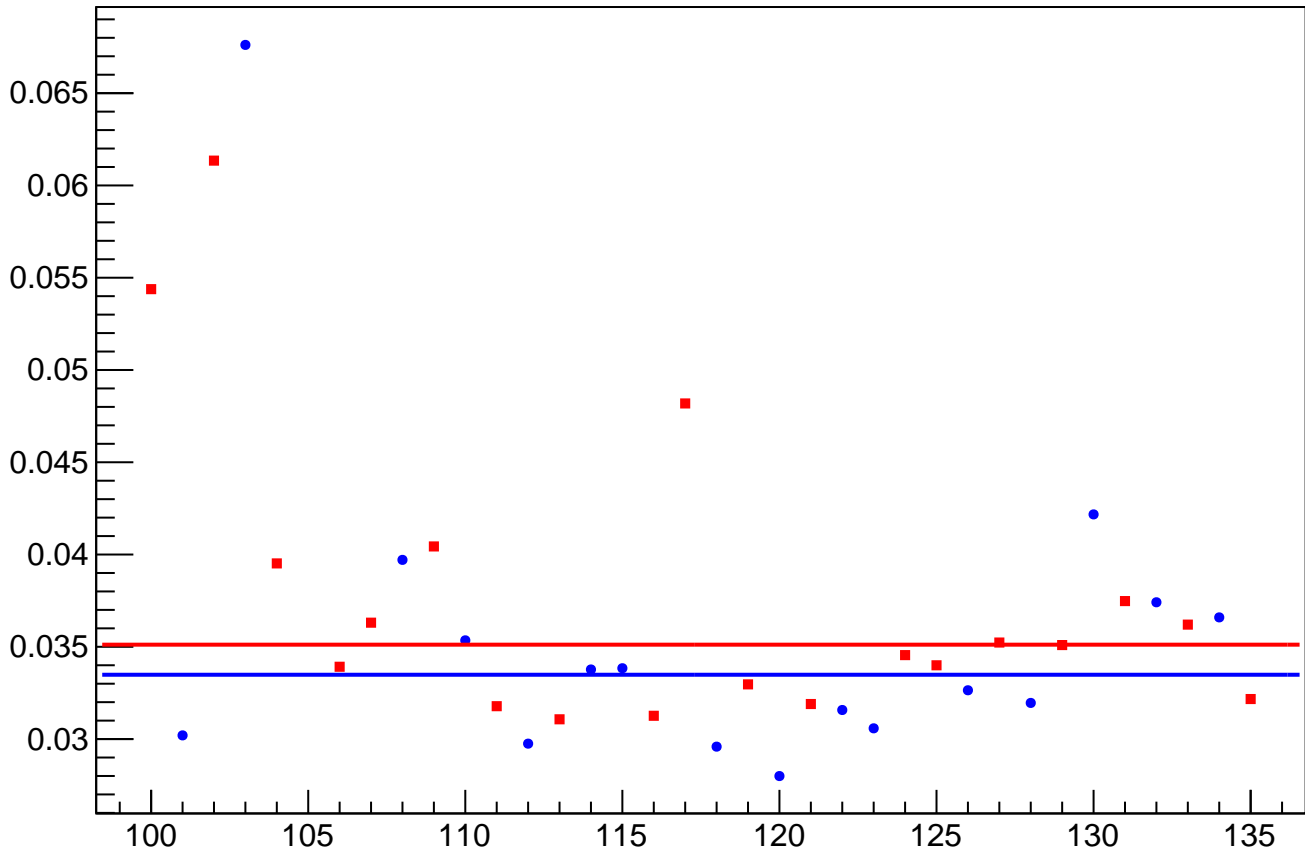
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.866+/-0.000  $\chi^2$ /NDF: 19854304.2/15

-0.892+/-0.000  $\chi^2$ /NDF: 154037550.1/34

-0.916+/-0.000  $\chi^2$ /NDF: 128336159.1/18

# yield\_bpm12X\_rms vs Slug, Sign Corrected



Right In: 0.033+/-0.000  $\chi^2$ /NDF: 394499.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.035+/-0.000  $\chi^2$ /NDF: 273069.6/18

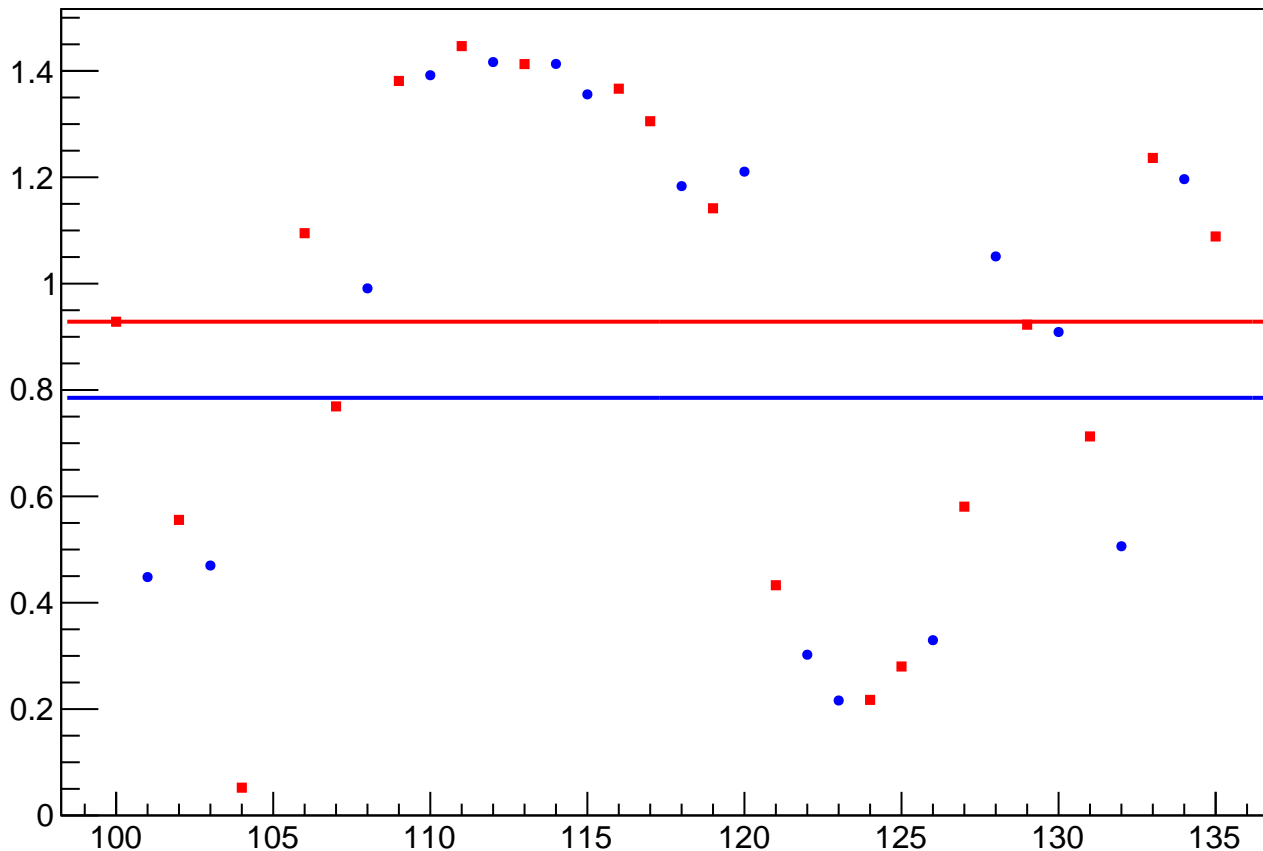
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.033+/-0.000  $\chi^2$ /NDF: 394499.6/15

0.034+/-0.000  $\chi^2$ /NDF: 679981.4/34

0.035+/-0.000  $\chi^2$ /NDF: 273069.6/18

# yield\_bpm12Y\_mean vs Slug, Sign Corrected



Right In: 0.785+/-0.000  $\chi^2/\text{NDF}$ : 5582855817.2/15

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

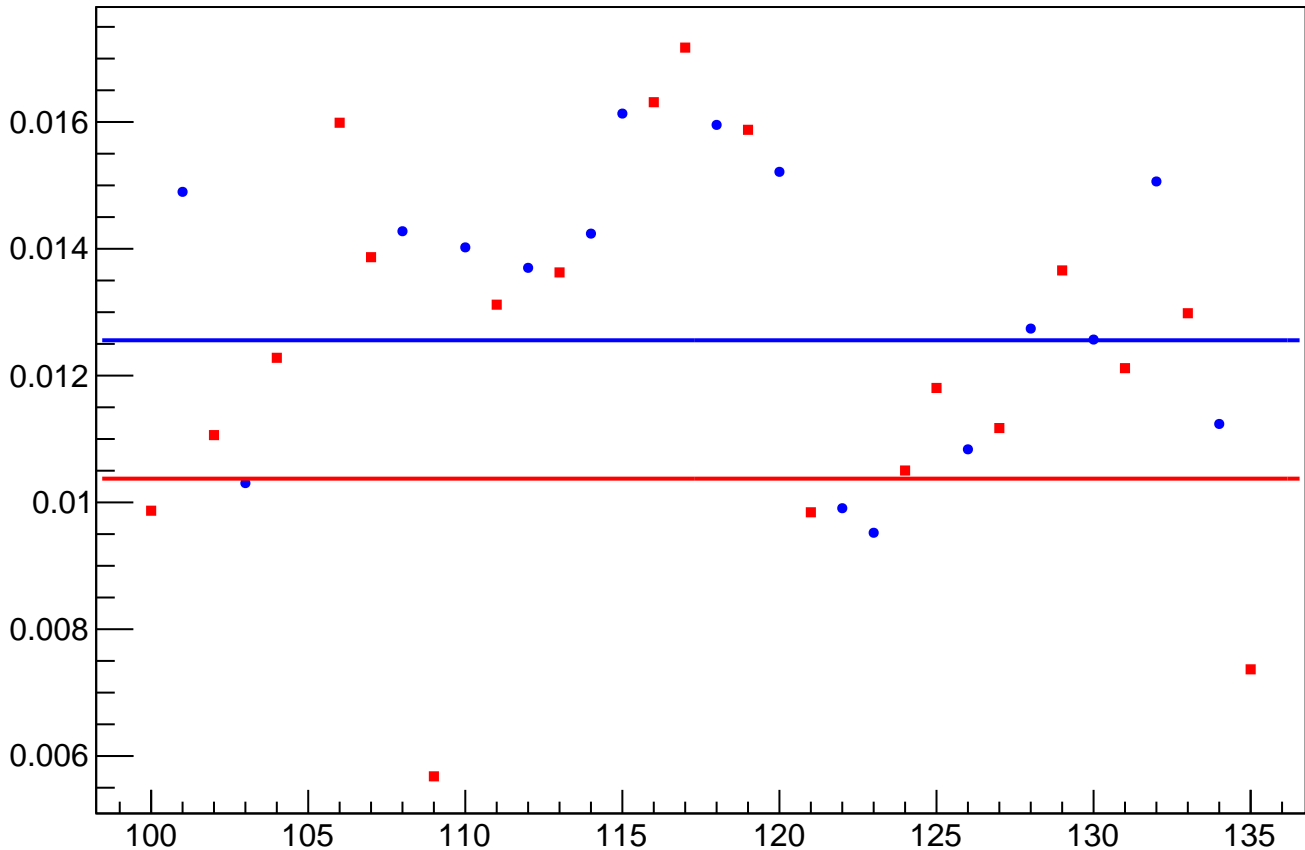
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.785+/-0.000  $\chi^2/\text{NDF}$ : 5582855817.2/15

0.874+/-0.000  $\chi^2/\text{NDF}$ : 15810361010.5/3

0.928+/-0.000  $\chi^2/\text{NDF}$ : 9808474606.7/18

# yield\_bpm12Y\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 278752.0/15

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

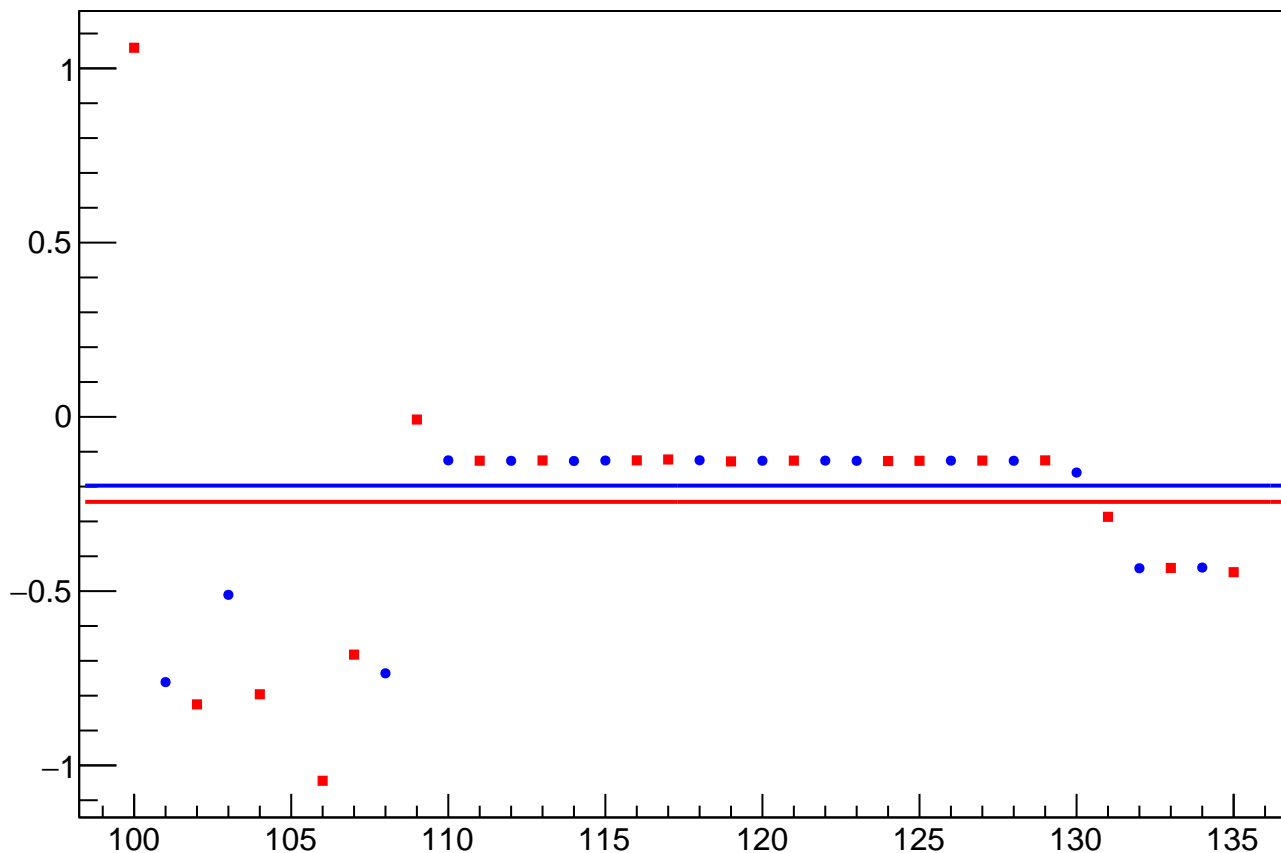
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.013+/-0.000  $\chi^2/\text{NDF}$ : 278752.0/15

0.011+/-0.000  $\chi^2/\text{NDF}$ : 1573119.6/34

0.010+/-0.000  $\chi^2/\text{NDF}$ : 1099734.0/18

# yield\_bpm16X\_mean vs Slug, Sign Corrected



Right In: -0.197+/-0.000  $\chi^2$ /NDF: 524628430.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.244+/-0.000  $\chi^2$ /NDF: 912161667.9/18

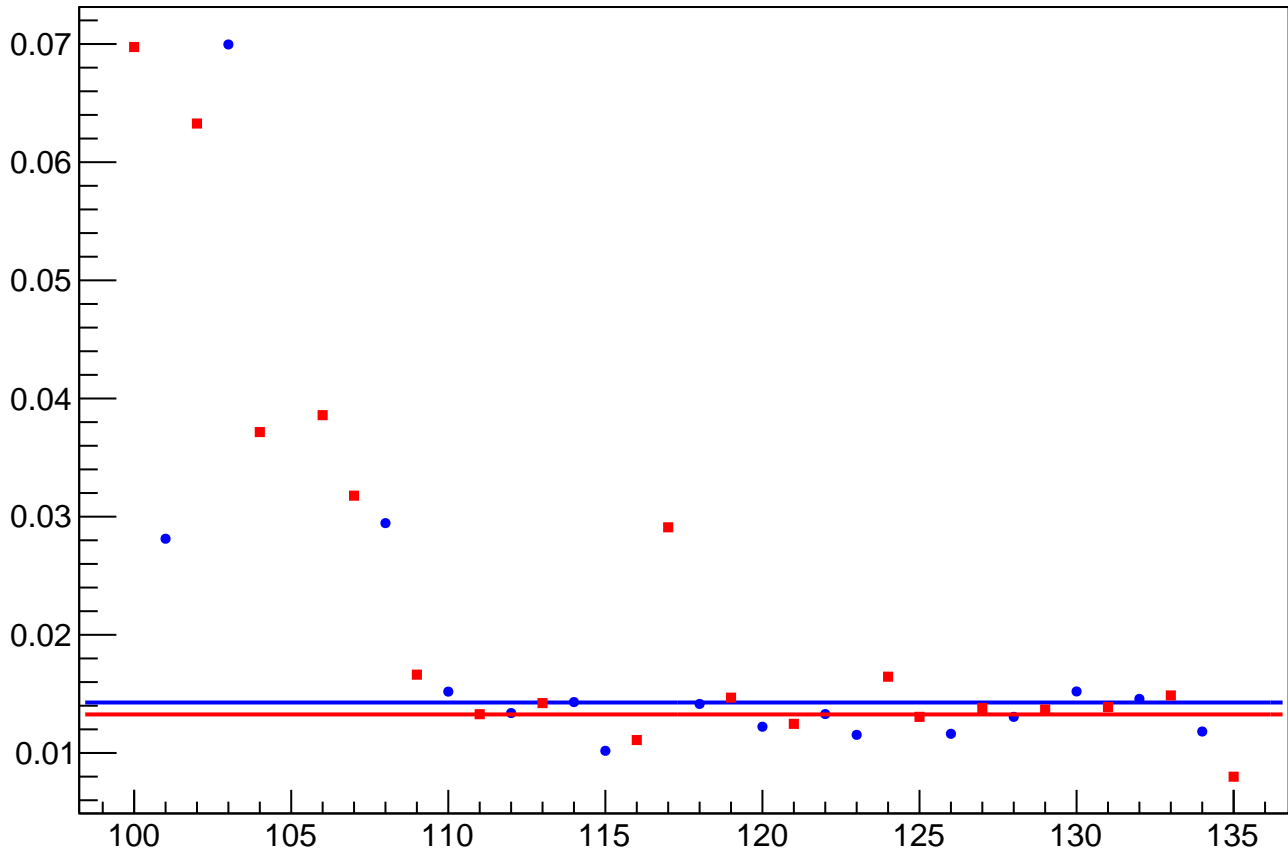
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.197+/-0.000  $\chi^2$ /NDF: 524628430.7/15

-0.224+/-0.000  $\chi^2$ /NDF: 1462220523.4/3

-0.244+/-0.000  $\chi^2$ /NDF: 912161667.9/18

# yield\_bpm16X\_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1188719.7/15

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

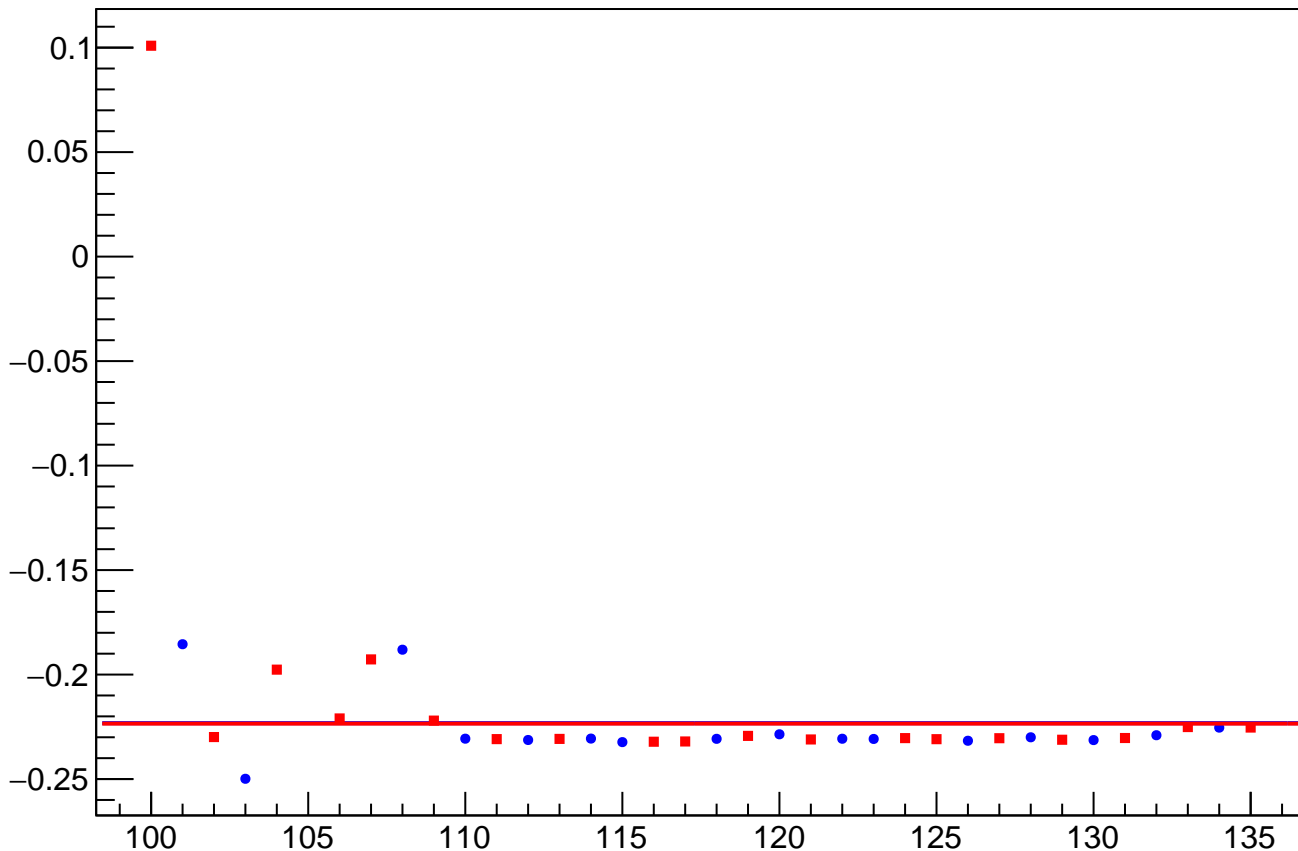
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 1188719.7/15

0.014+/-0.000  $\chi^2/\text{NDF}$ : 3053559.7/34

0.013+/-0.000  $\chi^2/\text{NDF}$ : 1840970.6/18

# yield\_bpm16Y\_mean vs Slug, Sign Corrected



Right In: -0.223+/-0.000  $\chi^2$ /NDF: 73992216.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.223+/-0.000  $\chi^2$ /NDF: 168121408.2/18

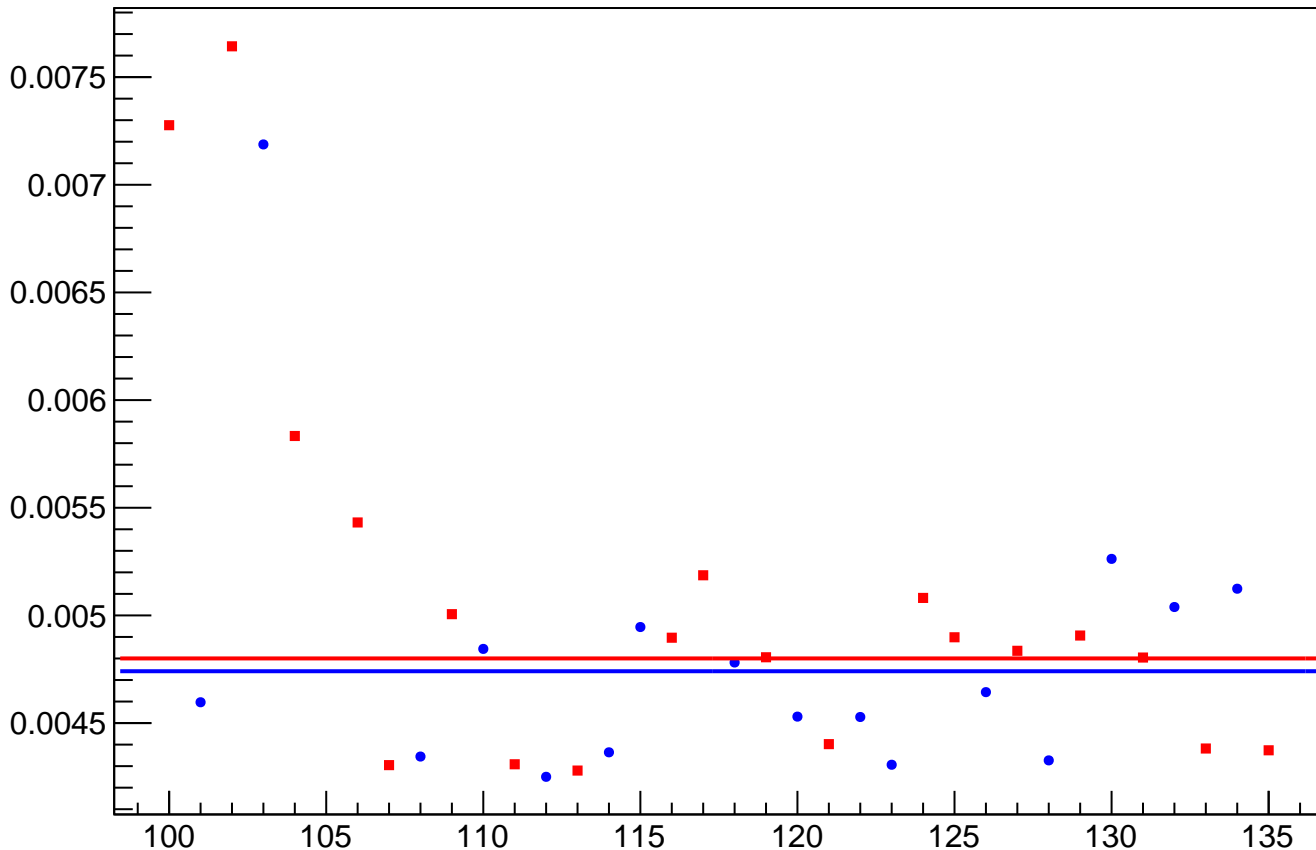
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.223+/-0.000  $\chi^2$ /NDF: 73992216.2/15

-0.223+/-0.000  $\chi^2$ /NDF: 242120105.0/34

-0.223+/-0.000  $\chi^2$ /NDF: 168121408.2/18

# yield\_bpm16Y\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 168441.8/15

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

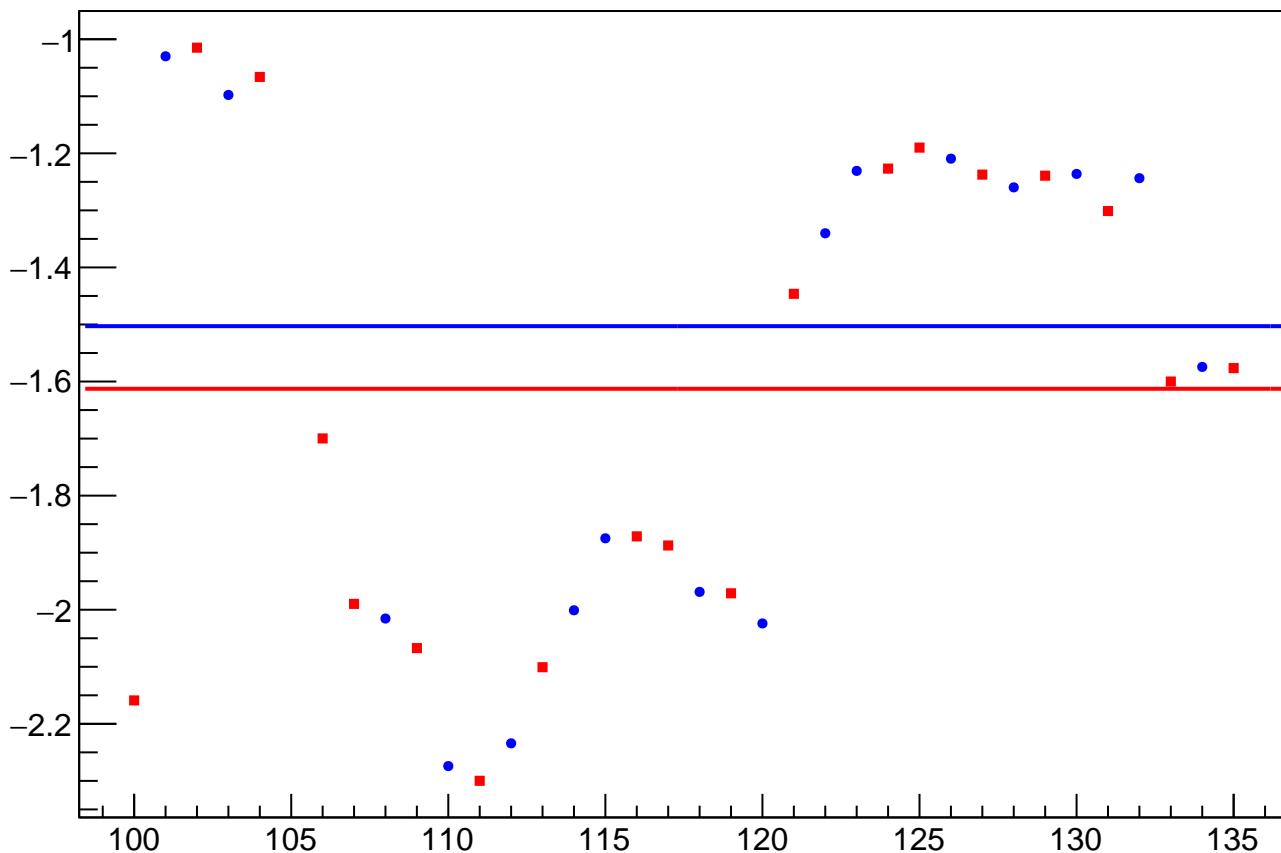
0.005+/-0.000  $\chi^2/\text{NDF}$ : 168441.8/15

0.005+/-0.000  $\chi^2/\text{NDF}$ : 414838.7/34

0.005+/-0.000  $\chi^2/\text{NDF}$ : 245514.9/18



# yield\_bpm0l01X\_mean vs Slug, Sign Corrected



Right In: -1.503+/-0.000  $\chi^2$ /NDF: 22440647644.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.613+/-0.000  $\chi^2$ /NDF: 27876780075.1/18

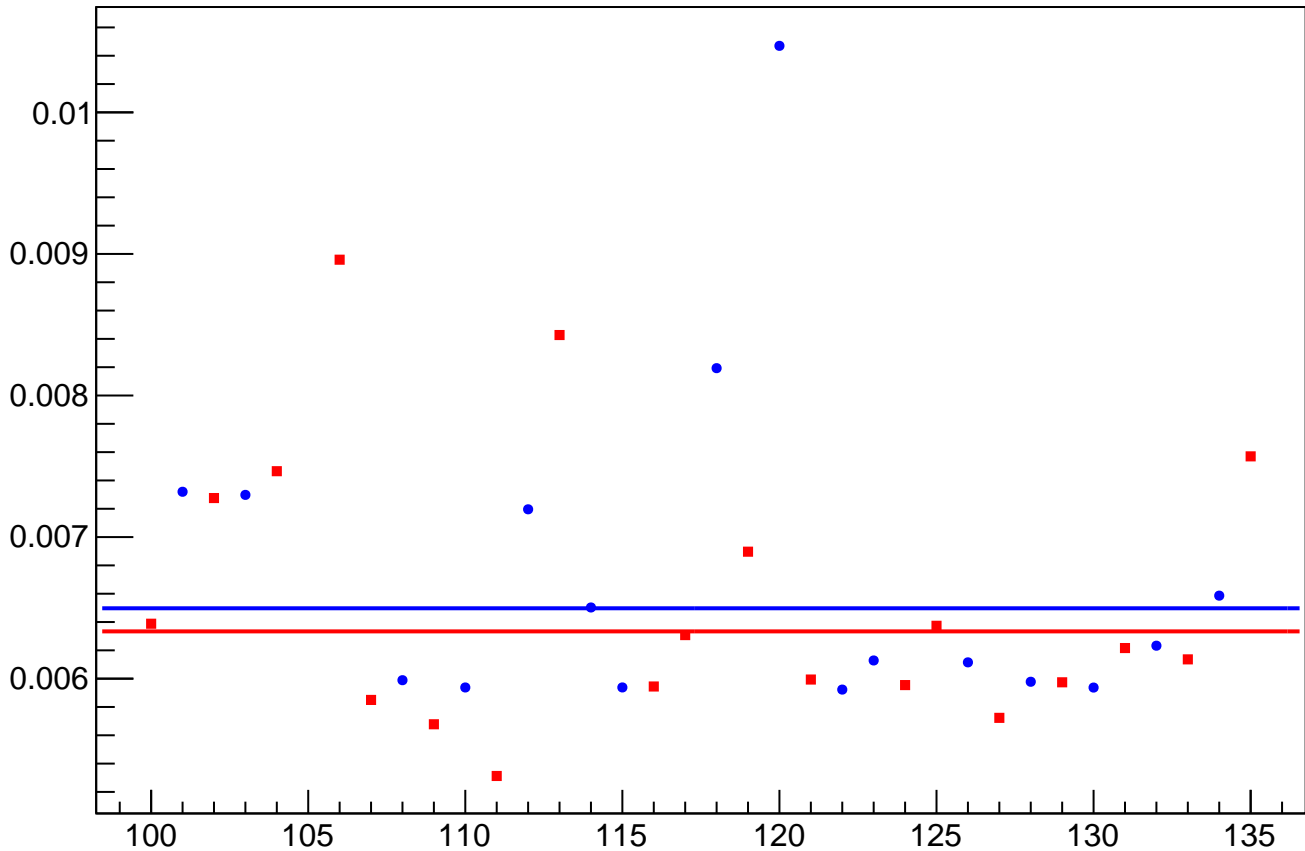
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-1.503+/-0.000  $\chi^2$ /NDF: 22440647644.3/15

-1.565+/-0.000  $\chi^2$ /NDF: 51161077298.1/15

-1.613+/-0.000  $\chi^2$ /NDF: 27876780075.1/18

# yield\_bpm0l01X\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 172877.7/15

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

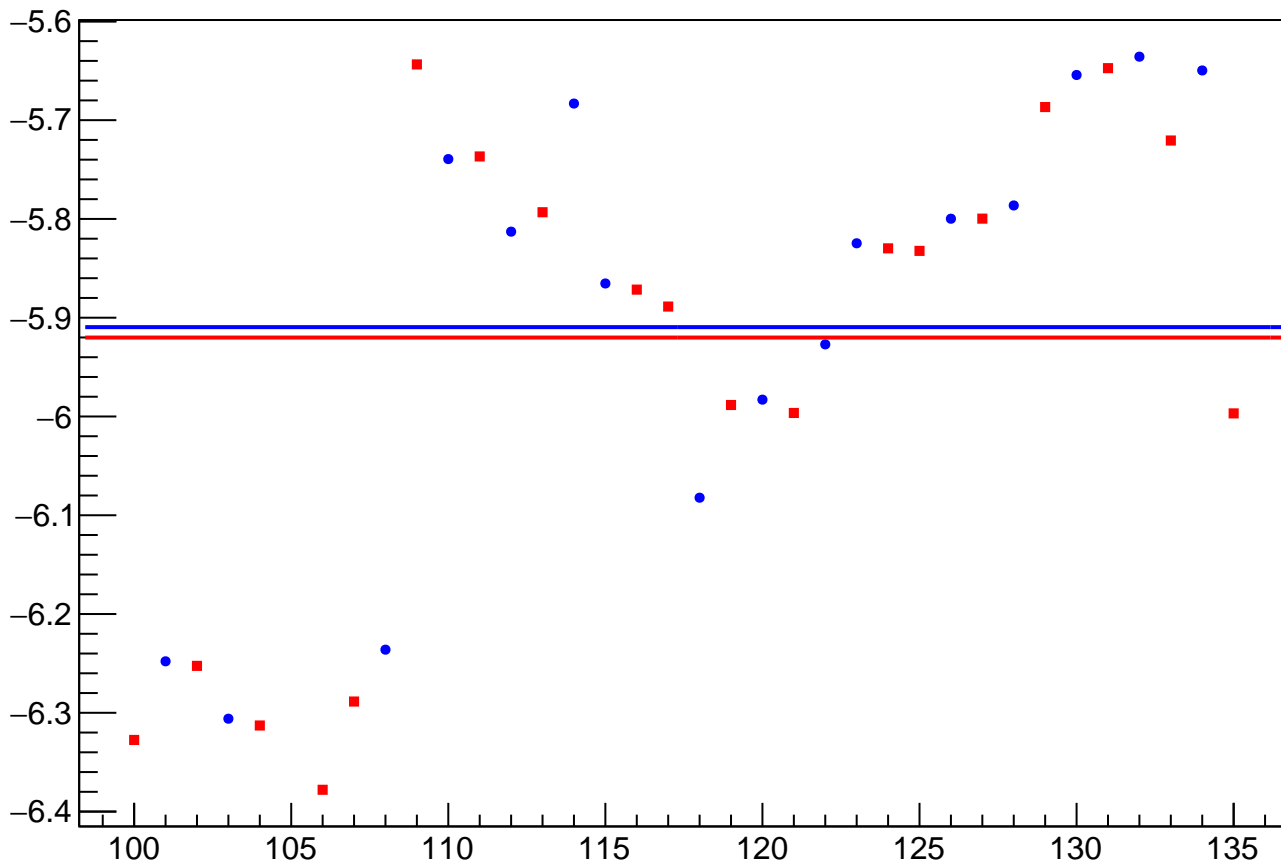
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.006+/-0.000  $\chi^2/\text{NDF}$ : 172877.7/15

0.006+/-0.000  $\chi^2/\text{NDF}$ : 398015.4/34

0.006+/-0.000  $\chi^2/\text{NDF}$ : 221405.1/18

# yield\_bpm0l01Y\_mean vs Slug, Sign Corrected



Right In: -5.910+/-0.000  $\chi^2$ /NDF: 11124947137.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5.920+/-0.000  $\chi^2$ /NDF: 12784935112.1/18

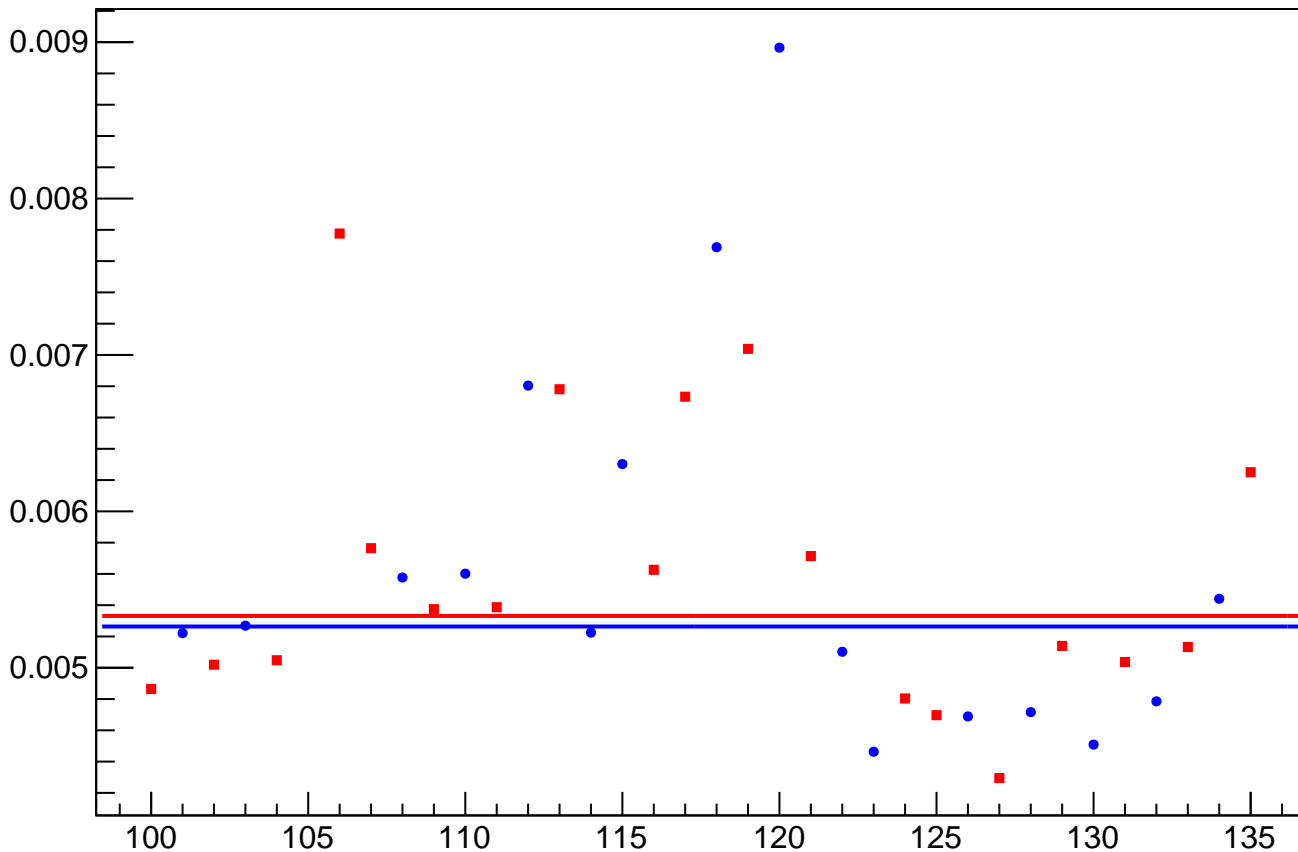
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-5.910+/-0.000  $\chi^2$ /NDF: 11124947137.8/15

-5.915+/-0.000  $\chi^2$ /NDF: 23921089581.9/15

-5.920+/-0.000  $\chi^2$ /NDF: 12784935112.1/18

# yield\_bpm0l01Y\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 278284.6/15

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

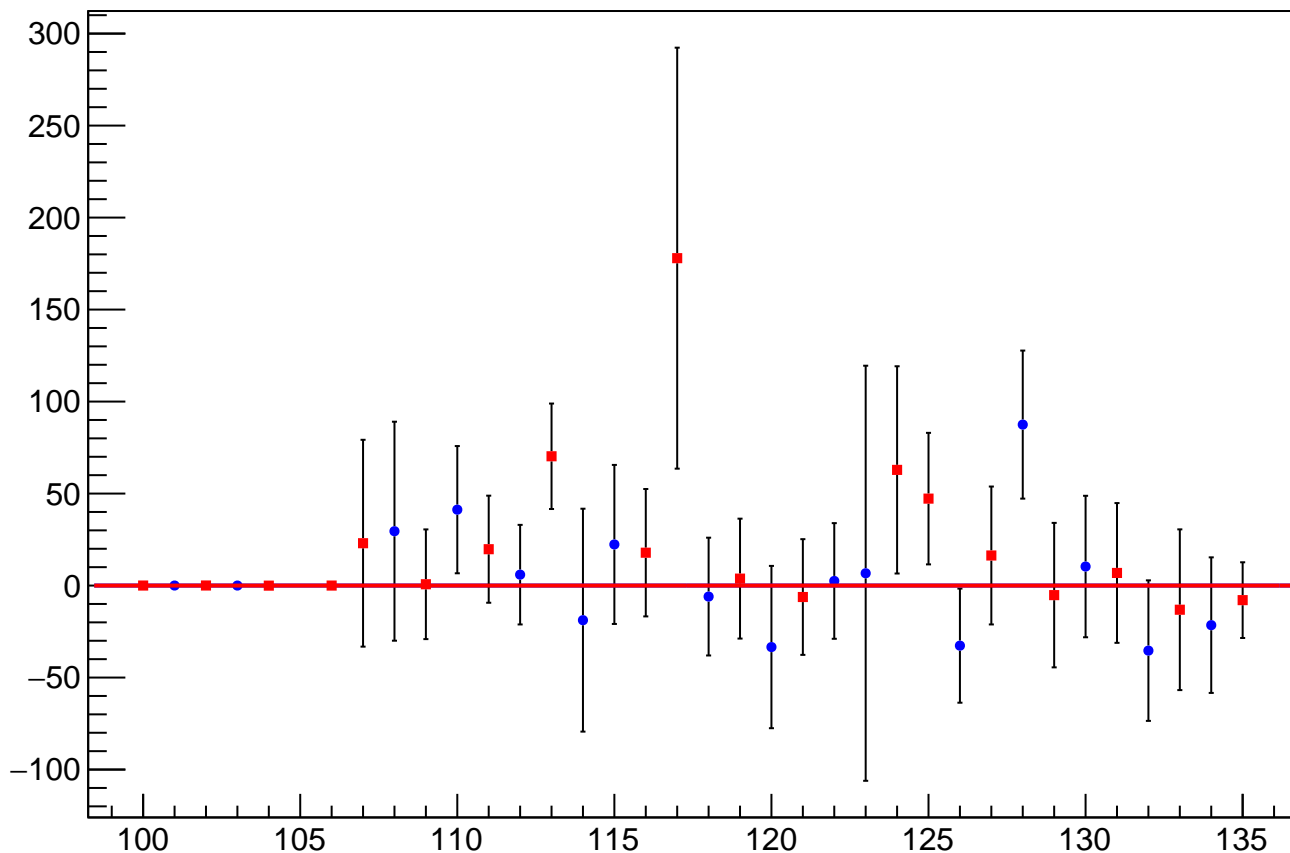
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.005+/-0.000  $\chi^2/\text{NDF}$ : 278284.6/15

0.005+/-0.000  $\chi^2/\text{NDF}$ : 519233.3/34

0.005+/-0.000  $\chi^2/\text{NDF}$ : 240026.3/18

# diff\_cav4bX\_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017  $\chi^2$ /NDF: 10.0/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.003 $\pm$ 0.016  $\chi^2$ /NDF: 17.7/18

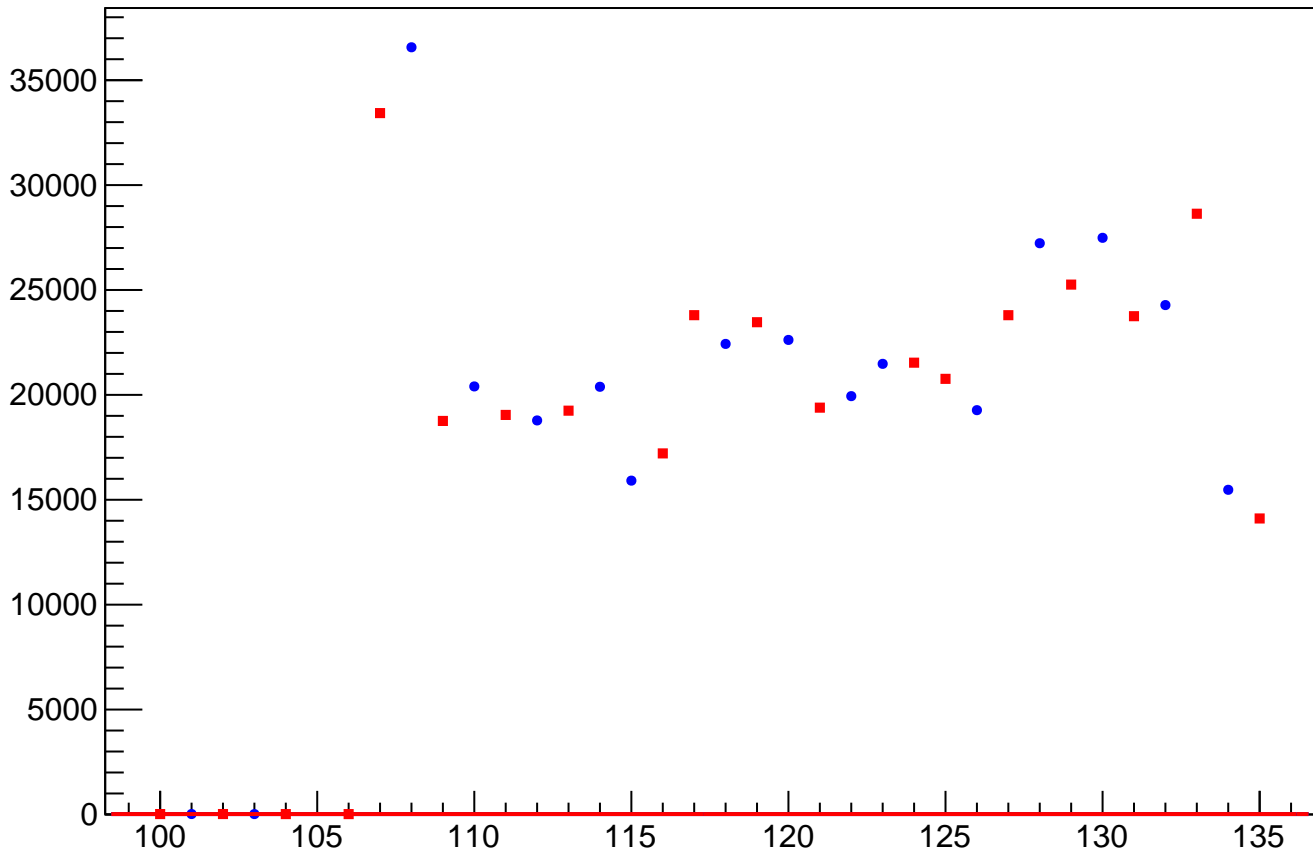
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.013 $\pm$ 0.017  $\chi^2$ /NDF: 10.0/15

0.004 $\pm$ 0.012  $\chi^2$ /NDF: 28.1/34

-0.003 $\pm$ 0.016  $\chi^2$ /NDF: 17.7/18

# diff\_cav4bX\_rms vs Slug, Sign Corrected



Right In: 18.622+/-0.012  $\chi^2$ /NDF: 9166710.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 18.308+/-0.011  $\chi^2$ /NDF: 10813357.8/18

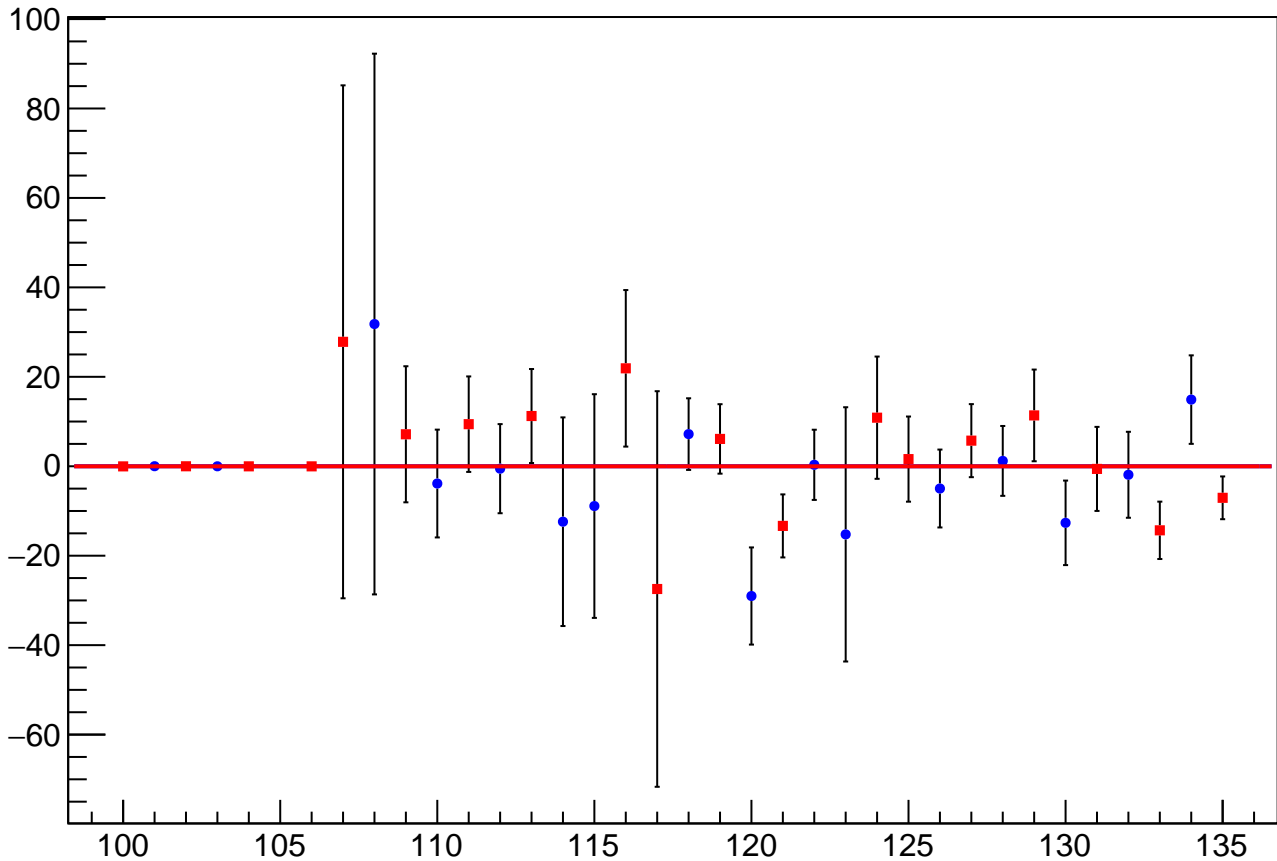
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

18.622+/-0.012  $\chi^2$ /NDF: 9166710.1/15

18.453+/-0.008  $\chi^2$ /NDF: 19980420.5/34

18.308+/-0.011  $\chi^2$ /NDF: 10813357.8/18

# diff\_cav4bY\_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.009  $\chi^2/\text{NDF}$ : 14.6/15

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

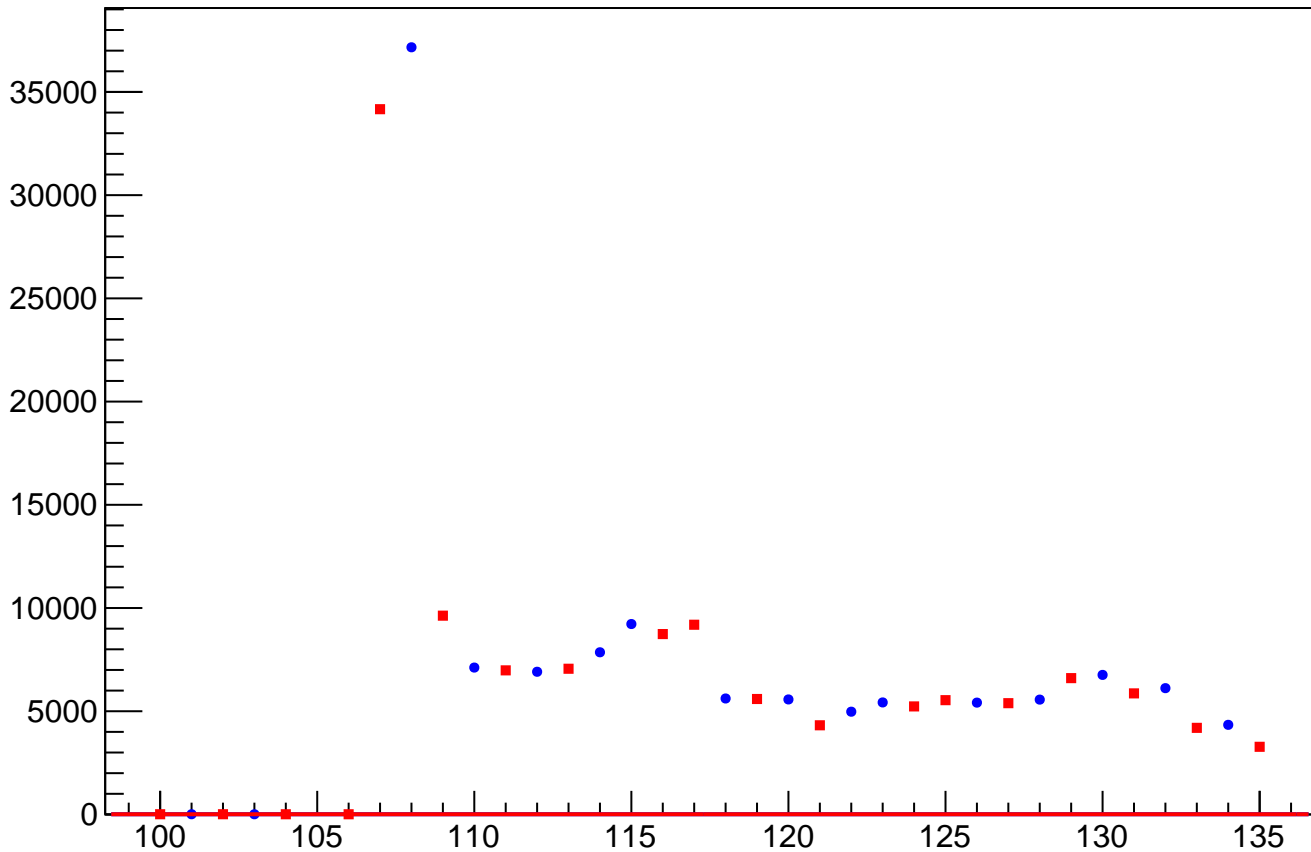
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.001+/-0.009  $\chi^2/\text{NDF}$ : 14.6/15

-0.007+/-0.006  $\chi^2/\text{NDF}$ : 34.7/34

-0.014+/-0.009  $\chi^2/\text{NDF}$ : 18.8/18

# diff\_cav4bY\_rms vs Slug, Sign Corrected



Right In: 9.917+/-0.007  $\chi^2/\text{NDF}$ : 9291078.6/15

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

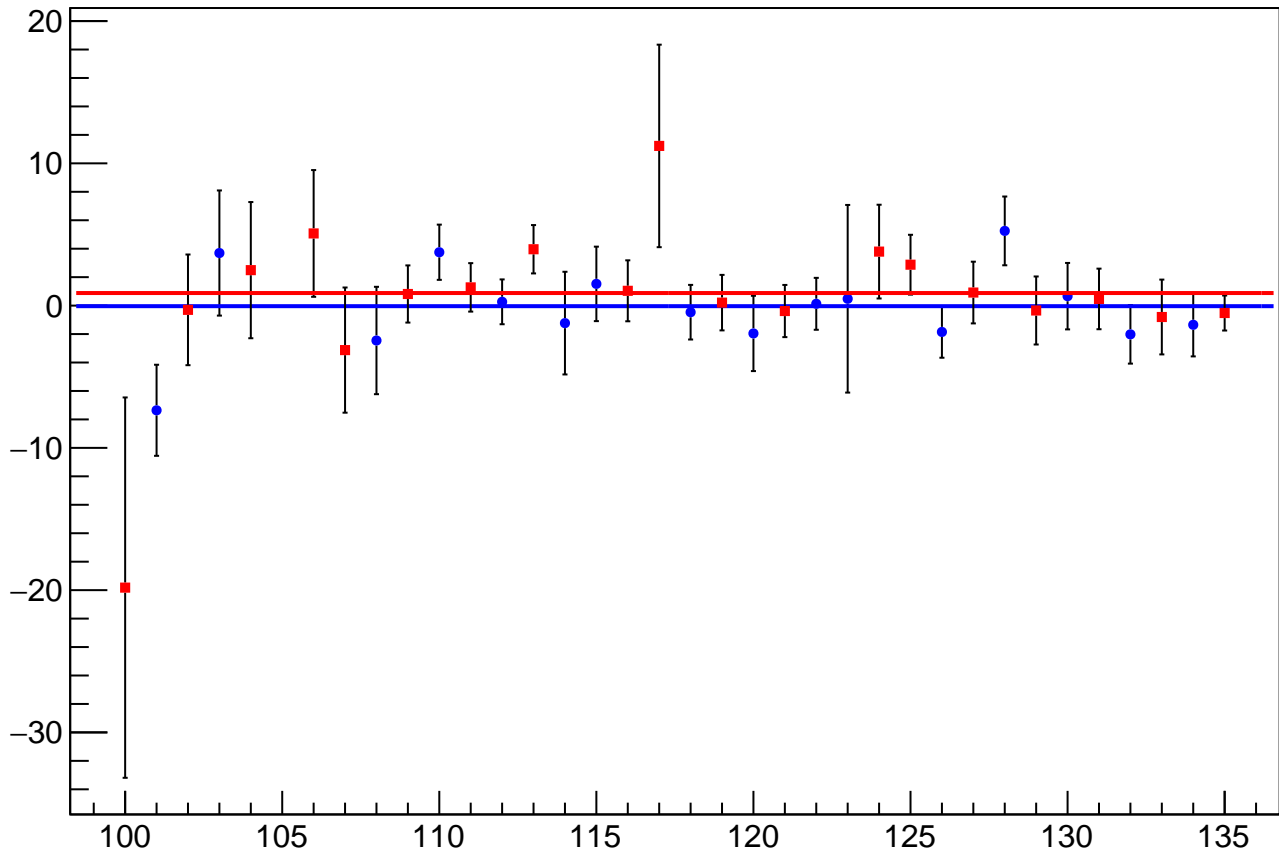
9.917+/-0.007  $\chi^2/\text{NDF}$ : 9291078.6/15

9.881+/-0.004  $\chi^2/\text{NDF}$ : 20154521.9/34

9.850+/-0.006  $\chi^2/\text{NDF}$ : 10863388.2/18



# diff\_cav4cX\_mean vs Slug, Sign Corrected



Right In:  $-0.040 \pm 0.583$   $\chi^2/\text{NDF}$ : 18.4/15

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

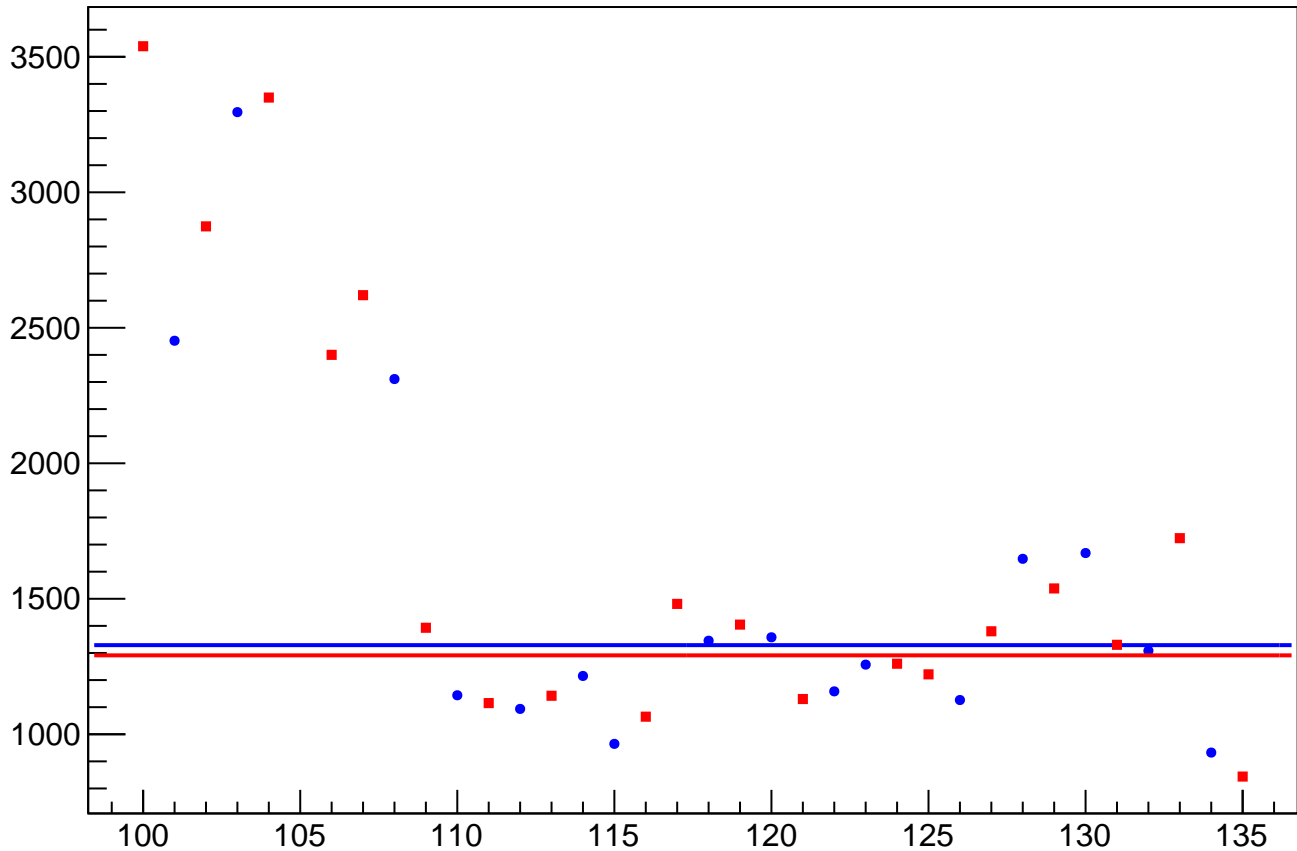
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.040 \pm 0.583$   $\chi^2/\text{NDF}$ : 18.4/15

$0.474 \pm 0.388$   $\chi^2/\text{NDF}$ : 33.9/34

$0.884 \pm 0.521$   $\chi^2/\text{NDF}$ : 14.1/18

# diff\_cav4cX\_rms vs Slug, Sign Corrected



Right In: 1328.907 $\pm$ 0.412  $\chi^2$ /NDF: 1069295.2/15

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

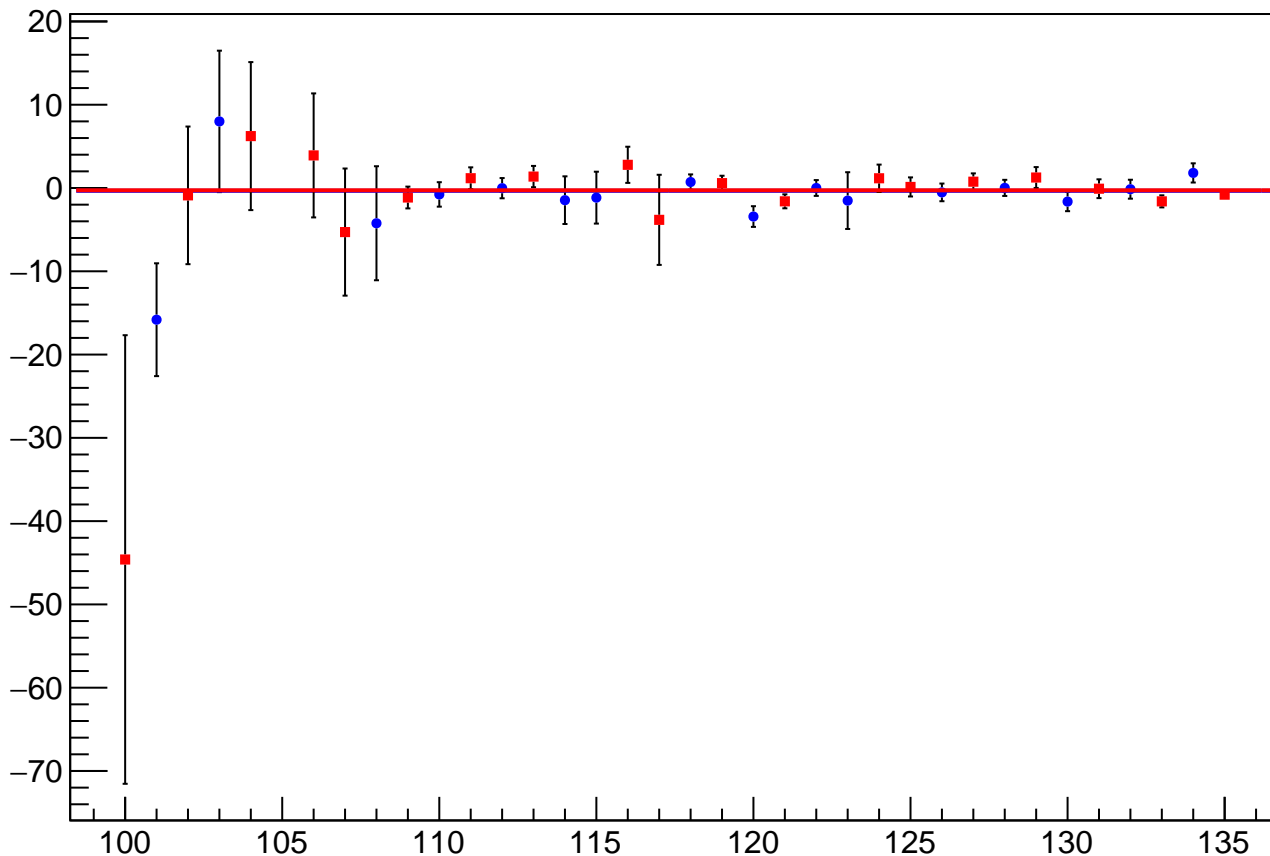
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1328.907 $\pm$ 0.412  $\chi^2$ /NDF: 1069295.2/15

1307.982 $\pm$ 0.275  $\chi^2$ /NDF: 2572104.0/34

1291.253 $\pm$ 0.368  $\chi^2$ /NDF: 1498166.0/18

# diff\_cav4cY\_mean vs Slug, Sign Corrected



Right In:  $-0.335 \pm 0.339$   $\chi^2/\text{NDF}: 19.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.275 \pm 0.275$   $\chi^2/\text{NDF}: 20.9/18$

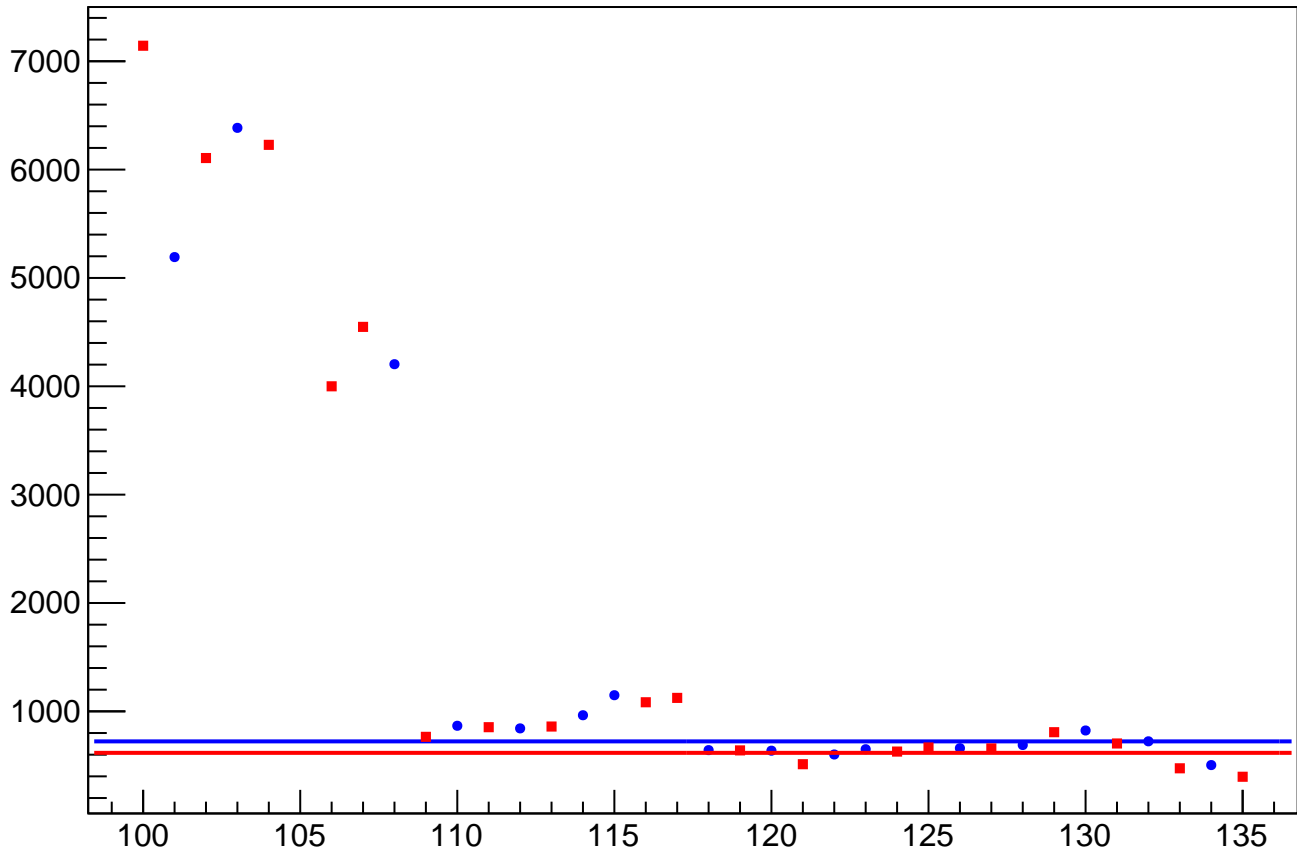
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.335 \pm 0.339$   $\chi^2/\text{NDF}: 19.6/15$

$-0.299 \pm 0.213$   $\chi^2/\text{NDF}: 40.5/34$

$-0.275 \pm 0.275$   $\chi^2/\text{NDF}: 20.9/18$

# diff\_cav4cY\_rms vs Slug, Sign Corrected



Right In: 722.761+/-0.240  $\chi^2$ /NDF: 2522423.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 616.904+/-0.194  $\chi^2$ /NDF: 3481284.7/18

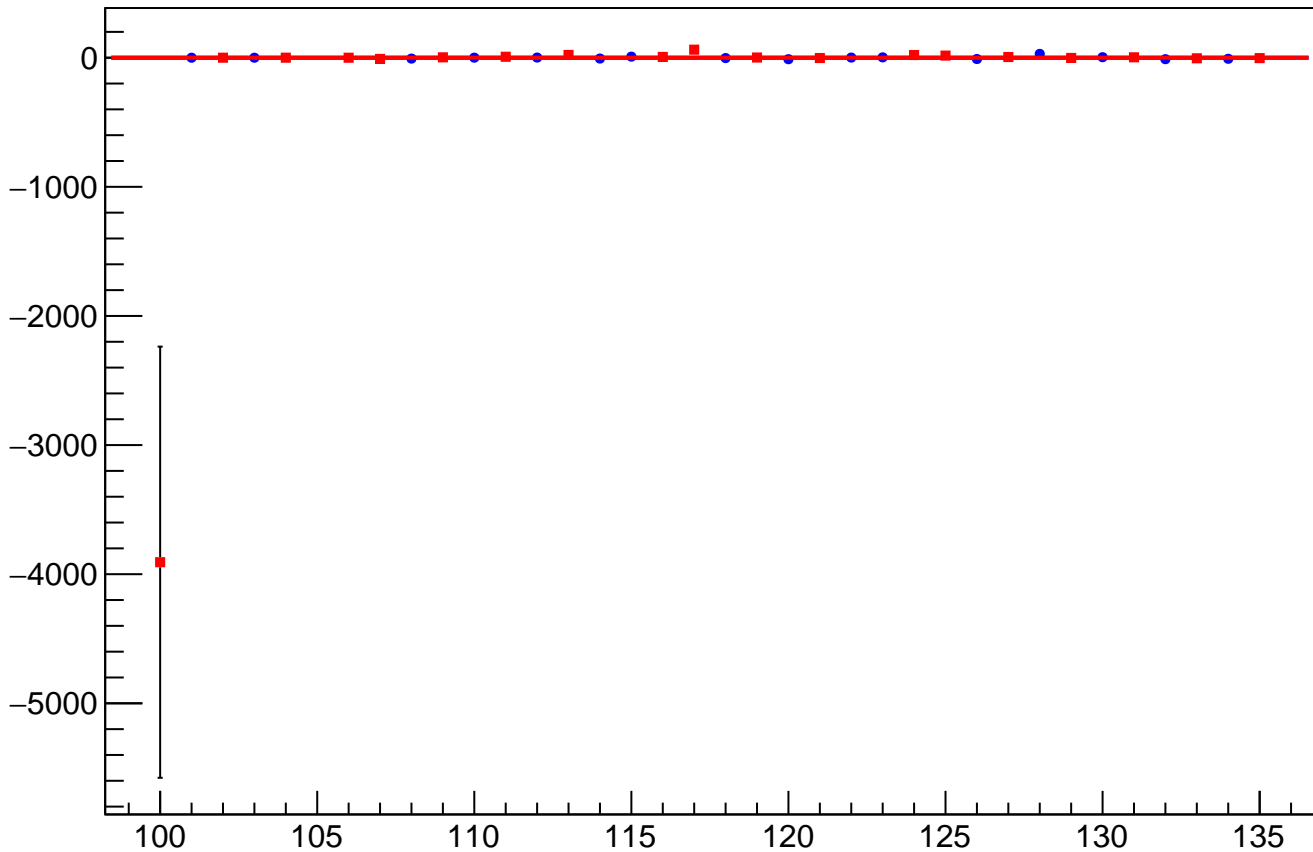
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

722.761+/-0.240  $\chi^2$ /NDF: 2522423.5/15

658.885+/-0.151  $\chi^2$ /NDF: 6121370.1/34

616.904+/-0.194  $\chi^2$ /NDF: 3481284.7/18

# diff\_cav4dX\_mean vs Slug, Sign Corrected



Right In: -0.021+/-0.021  $\chi^2$ /NDF: 9.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.027+/-0.020  $\chi^2$ /NDF: 19.8/18

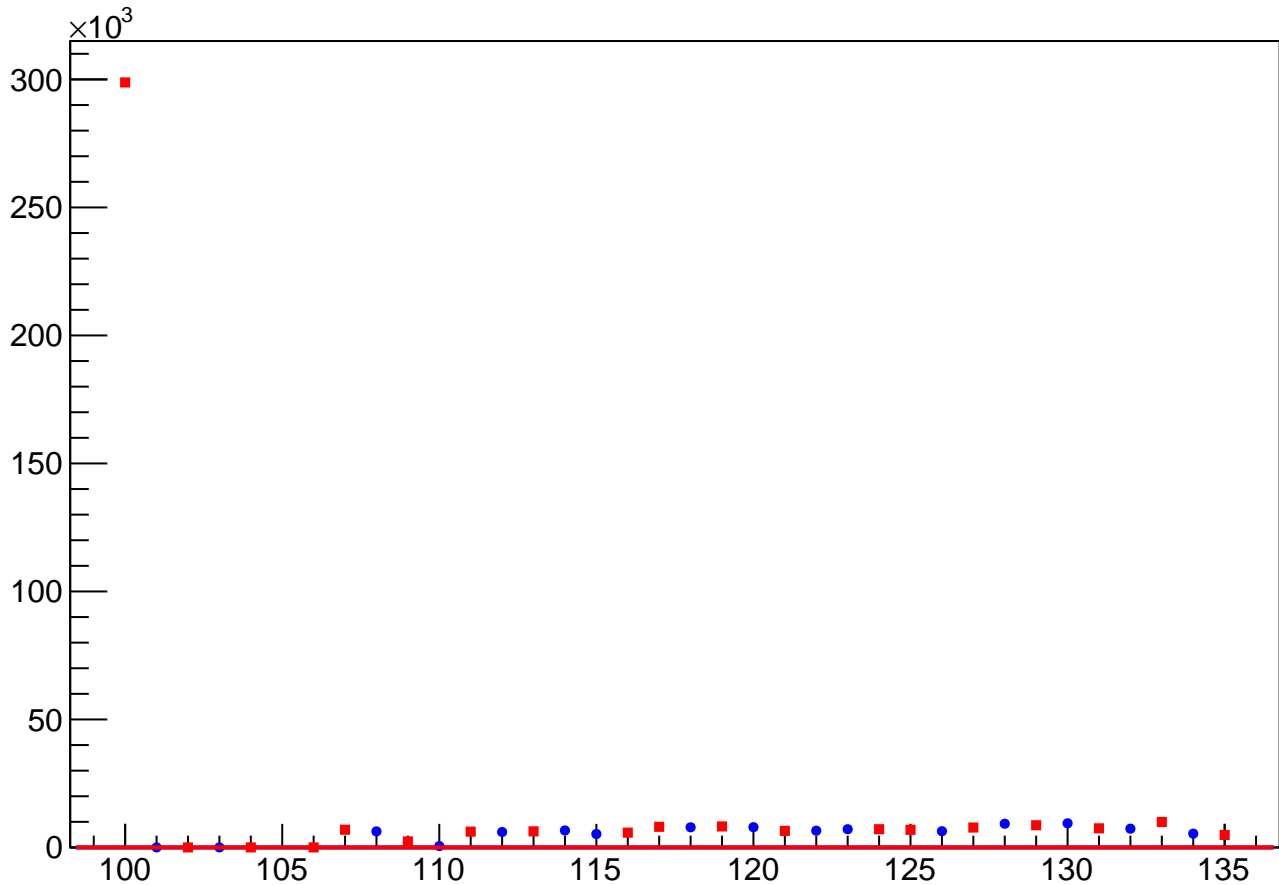
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.021+/-0.021  $\chi^2$ /NDF: 9.3/15

0.004+/-0.014  $\chi^2$ /NDF: 31.9/34

0.027+/-0.020  $\chi^2$ /NDF: 19.8/18

# diff\_cav4dX\_rms vs Slug, Sign Corrected



Right In: 17.259+/-0.015  $\chi^2$ /NDF: 8691659.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 17.254+/-0.014  $\chi^2$ /NDF: 10524989.7/18

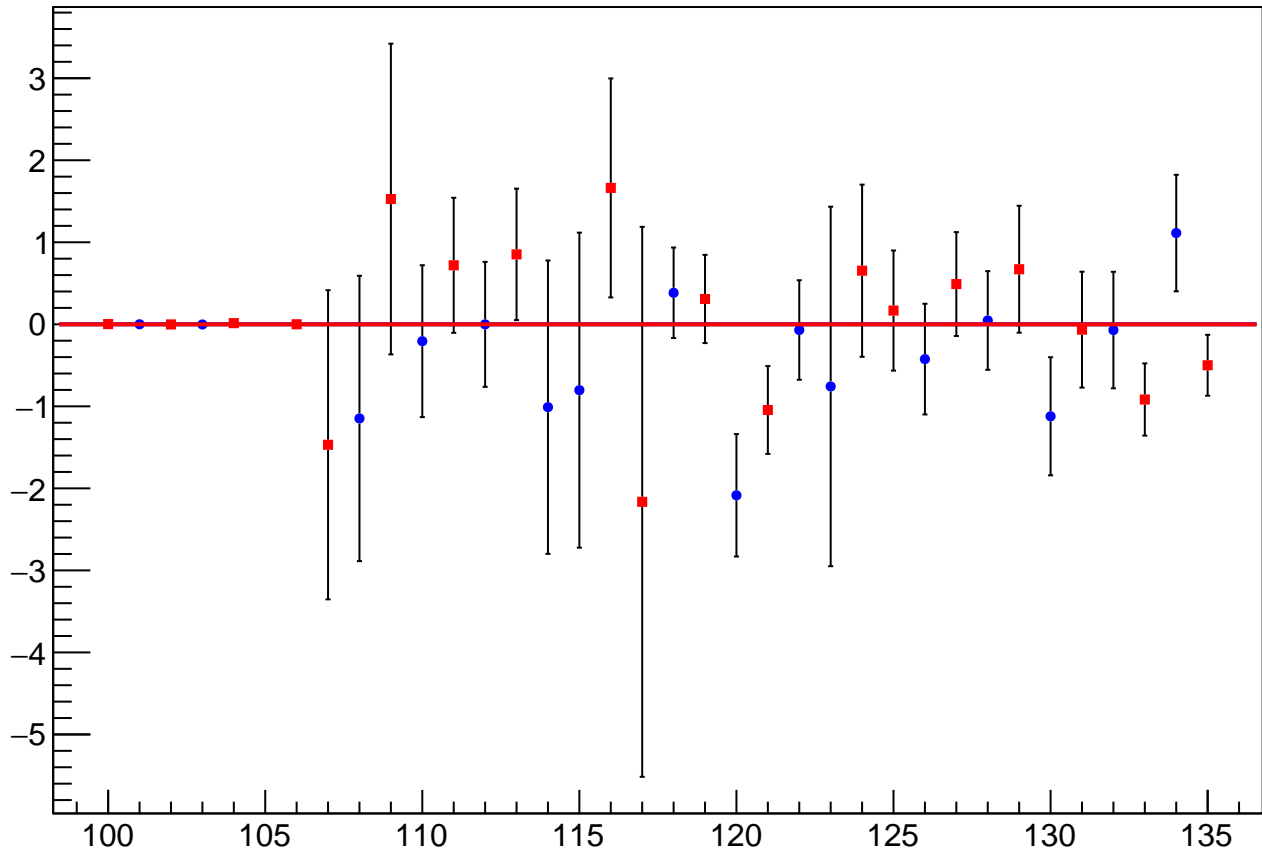
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

17.259+/-0.015  $\chi^2$ /NDF: 8691659.1/15

17.256+/-0.010  $\chi^2$ /NDF: 19216648.9/34

17.254+/-0.014  $\chi^2$ /NDF: 10524989.7/18

# diff\_cav4dY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.002  $\chi^2$ /NDF: 14.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.001+/-0.002  $\chi^2$ /NDF: 18.2/18

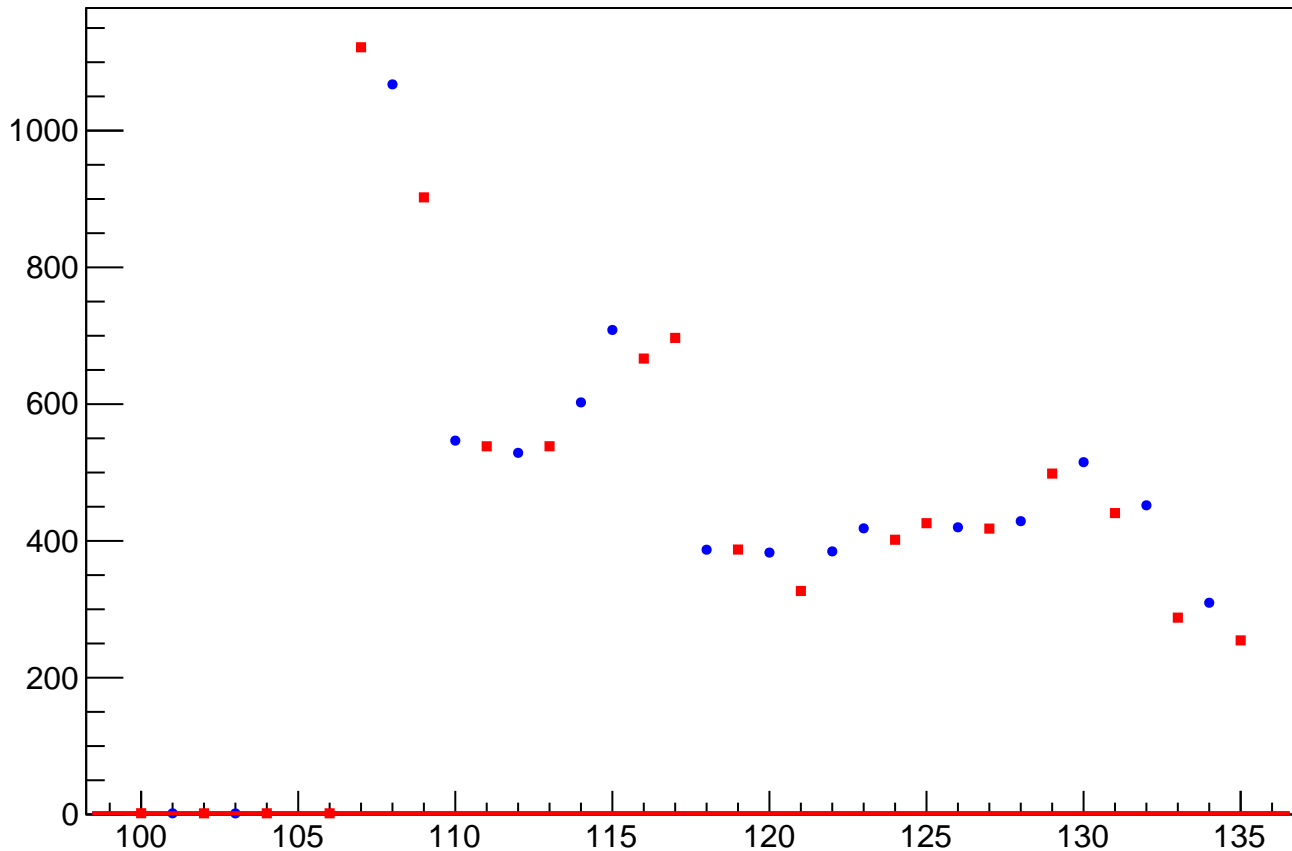
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.002  $\chi^2$ /NDF: 14.9/15

-0.000+/-0.001  $\chi^2$ /NDF: 33.2/34

-0.001+/-0.002  $\chi^2$ /NDF: 18.2/18

# diff\_cav4dY\_rms vs Slug, Sign Corrected



Right In: 1.686+/-0.001  $\chi^2/\text{NDF}$ : 9242878.1/15

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

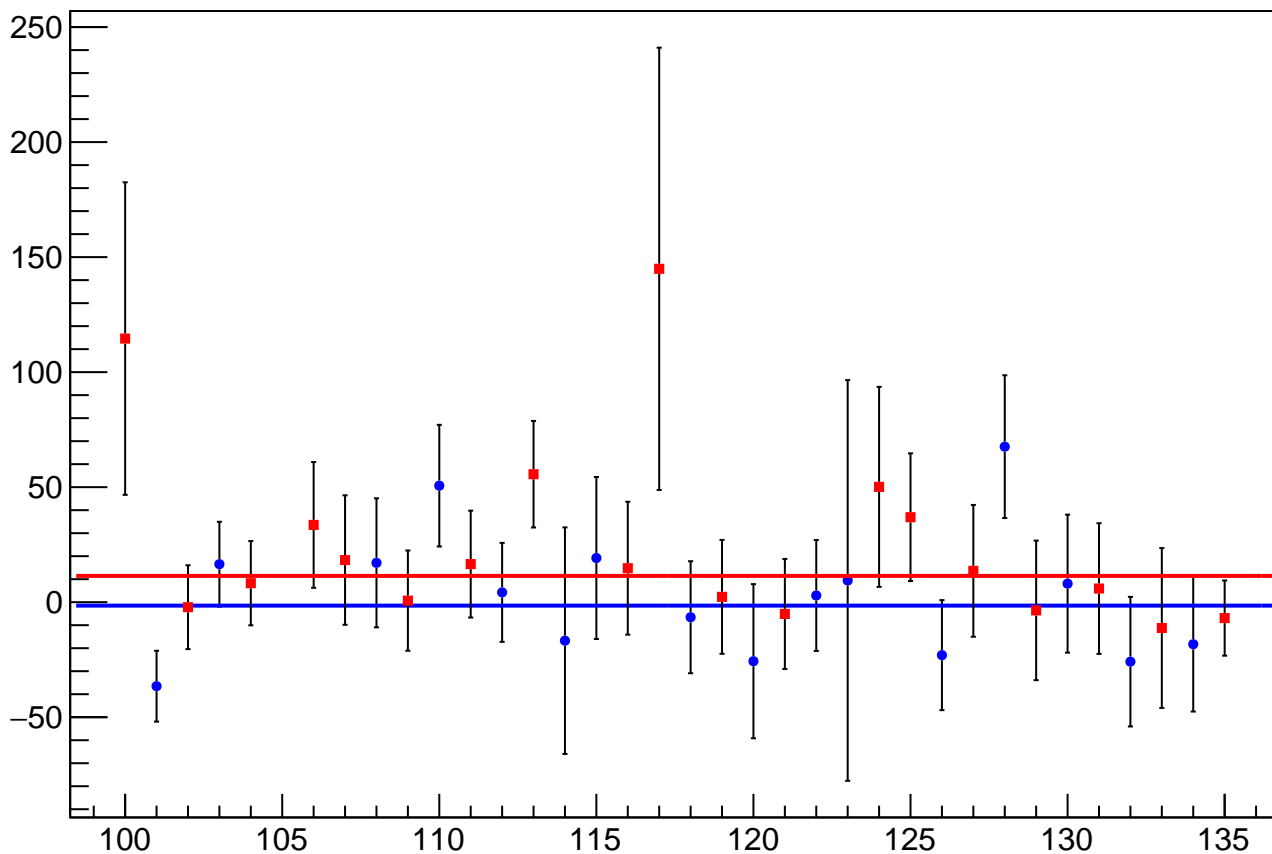
1.686+/-0.001  $\chi^2/\text{NDF}$ : 9242878.1/15

1.707+/-0.001  $\chi^2/\text{NDF}$ : 19693416.7/34

1.726+/-0.001  $\chi^2/\text{NDF}$ : 10450122.8/18



# diff\_bpm4aX\_mean vs Slug, Sign Corrected



Right In: -1.494+/-6.455  $\chi^2$ /NDF: 18.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 11.427+/-5.846  $\chi^2$ /NDF: 13.7/18

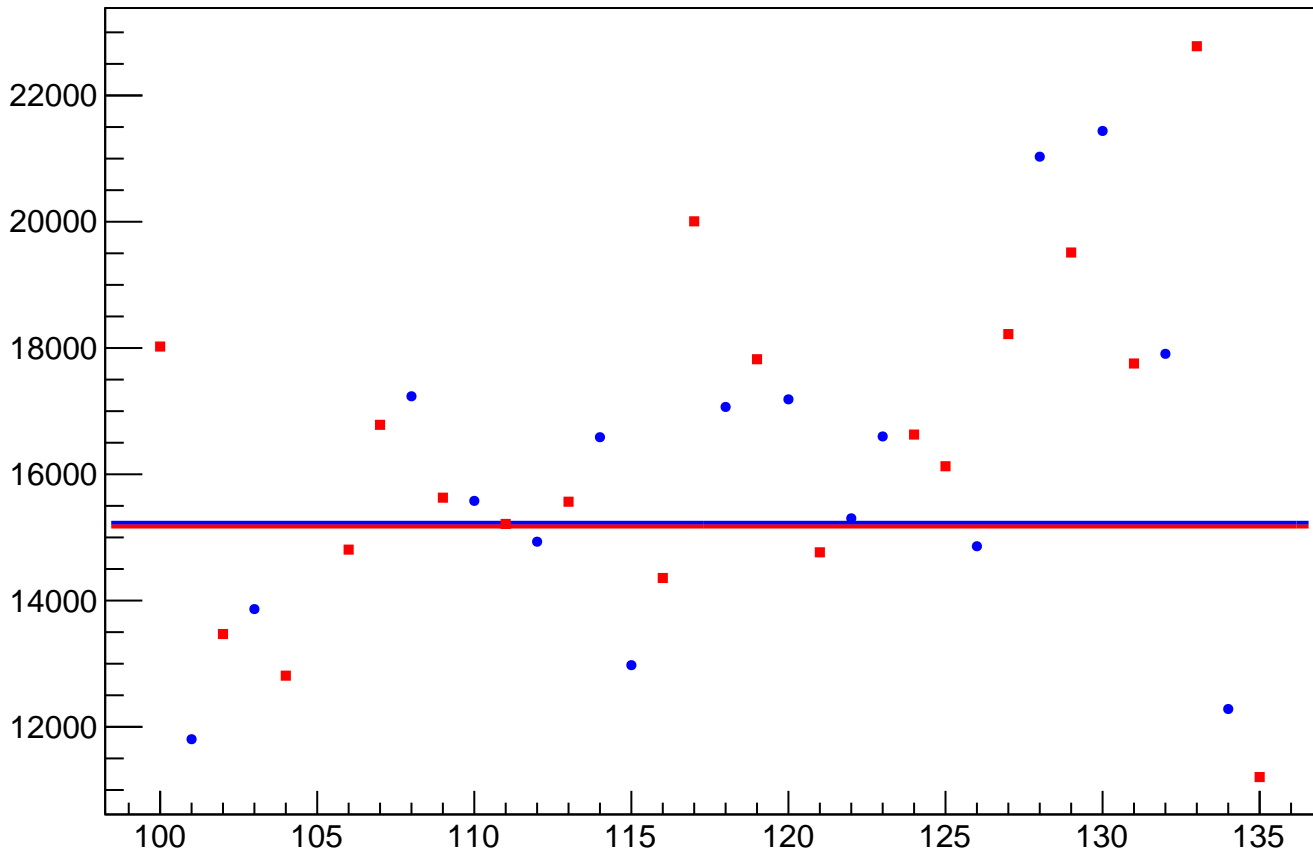
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-1.494+/-6.455  $\chi^2$ /NDF: 18.5/15

5.605+/-4.333  $\chi^2$ /NDF: 34.4/34

11.427+/-5.846  $\chi^2$ /NDF: 13.7/18

# diff\_bpm4aX\_rms vs Slug, Sign Corrected



Right In: 15232.053+/-4.564  $\chi^2$ /NDF: 343744.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 15172.814+/-4.134  $\chi^2$ /NDF: 391294.7/18

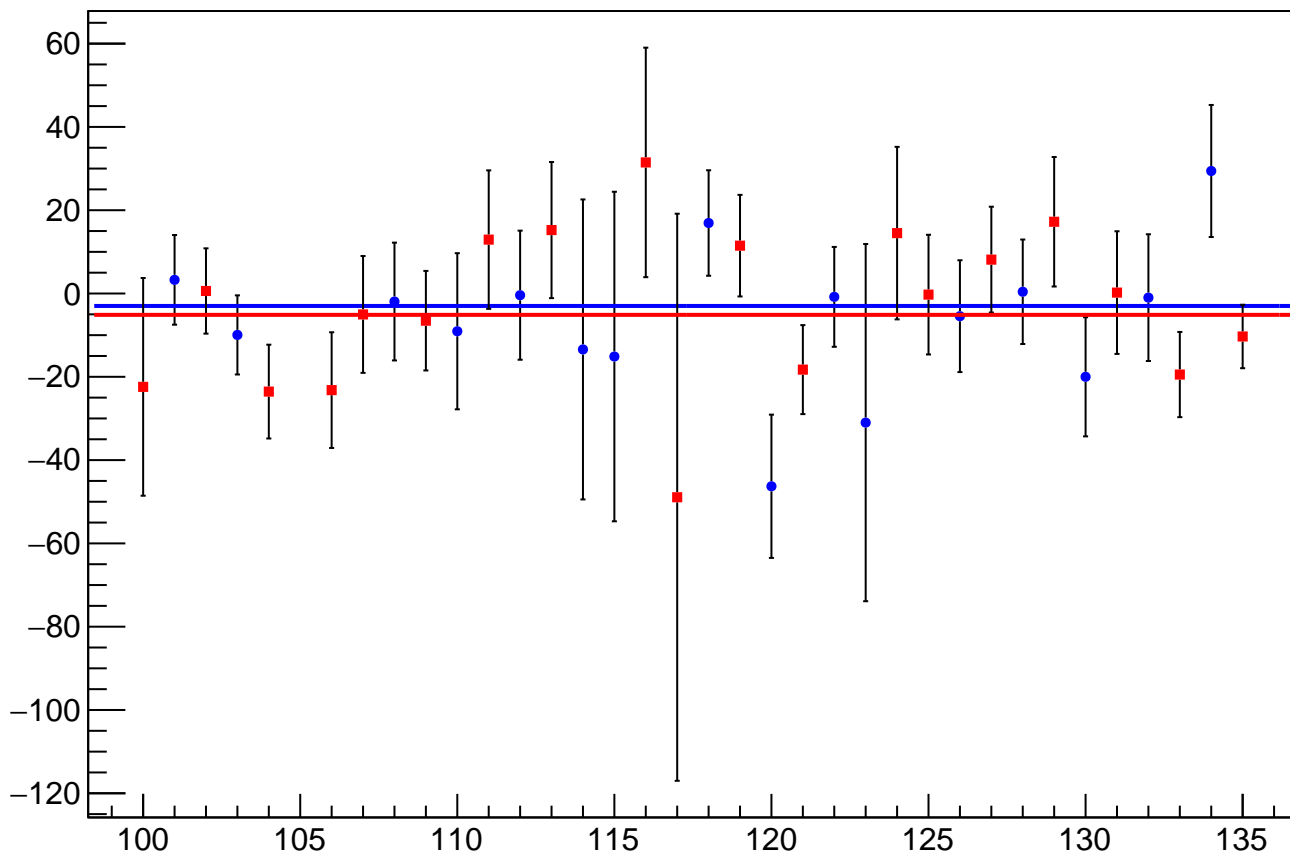
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

15232.053+/-4.564  $\chi^2$ /NDF: 343744.8/15

15199.507+/-3.064  $\chi^2$ /NDF: 735132.1/34

15172.814+/-4.134  $\chi^2$ /NDF: 391294.7/18

# diff\_bpm4aY\_mean vs Slug, Sign Corrected



Right In: -2.987+/-3.643  $\chi^2$ /NDF: 16.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5.125+/-3.023  $\chi^2$ /NDF: 20.1/18

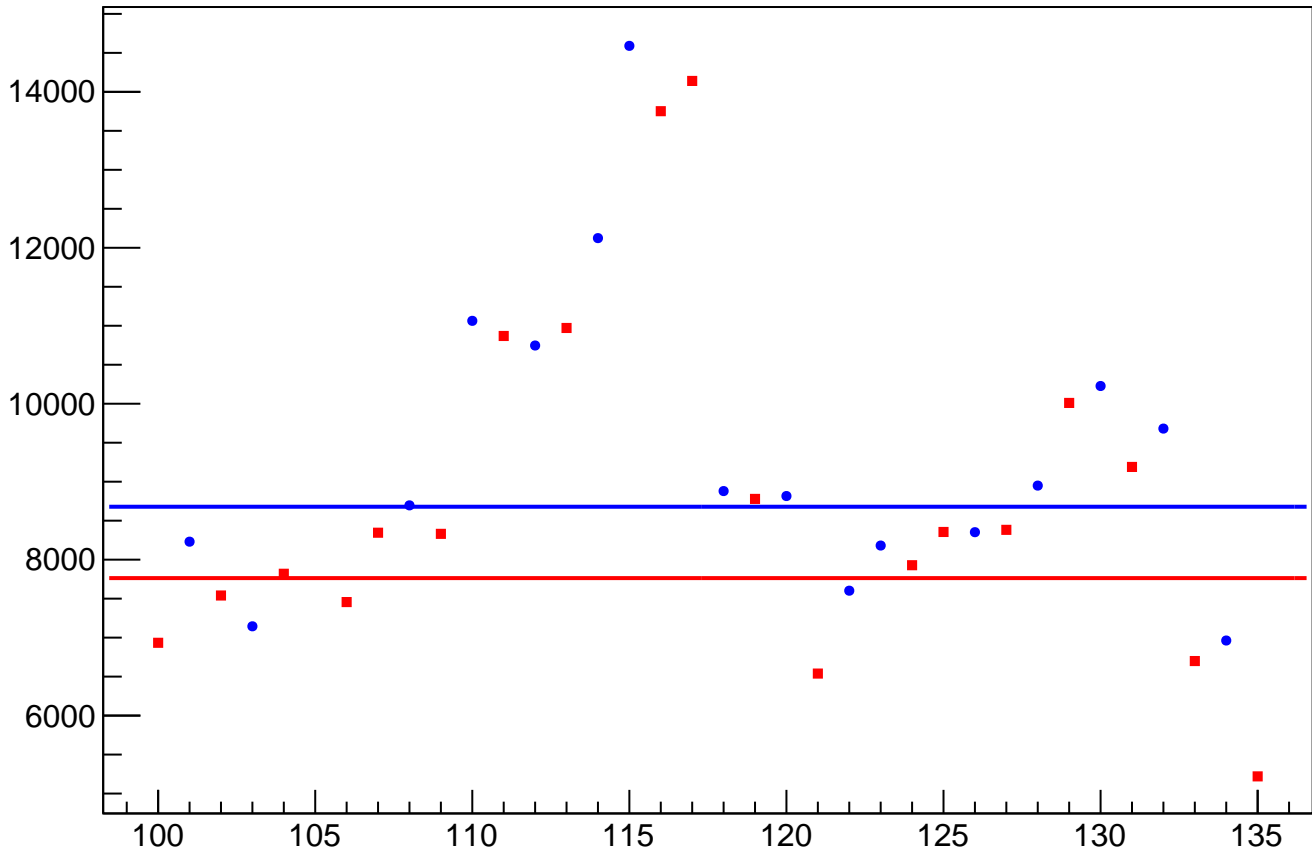
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-2.987+/-3.643  $\chi^2$ /NDF: 16.2/15

-4.253+/-2.326  $\chi^2$ /NDF: 36.5/34

-5.125+/-3.023  $\chi^2$ /NDF: 20.1/18

# diff\_bpm4aY\_rms vs Slug, Sign Corrected



Right In: 8678.772+/-2.576  $\chi^2$ /NDF: 261217.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7763.393+/-2.137  $\chi^2$ /NDF: 624322.0/18

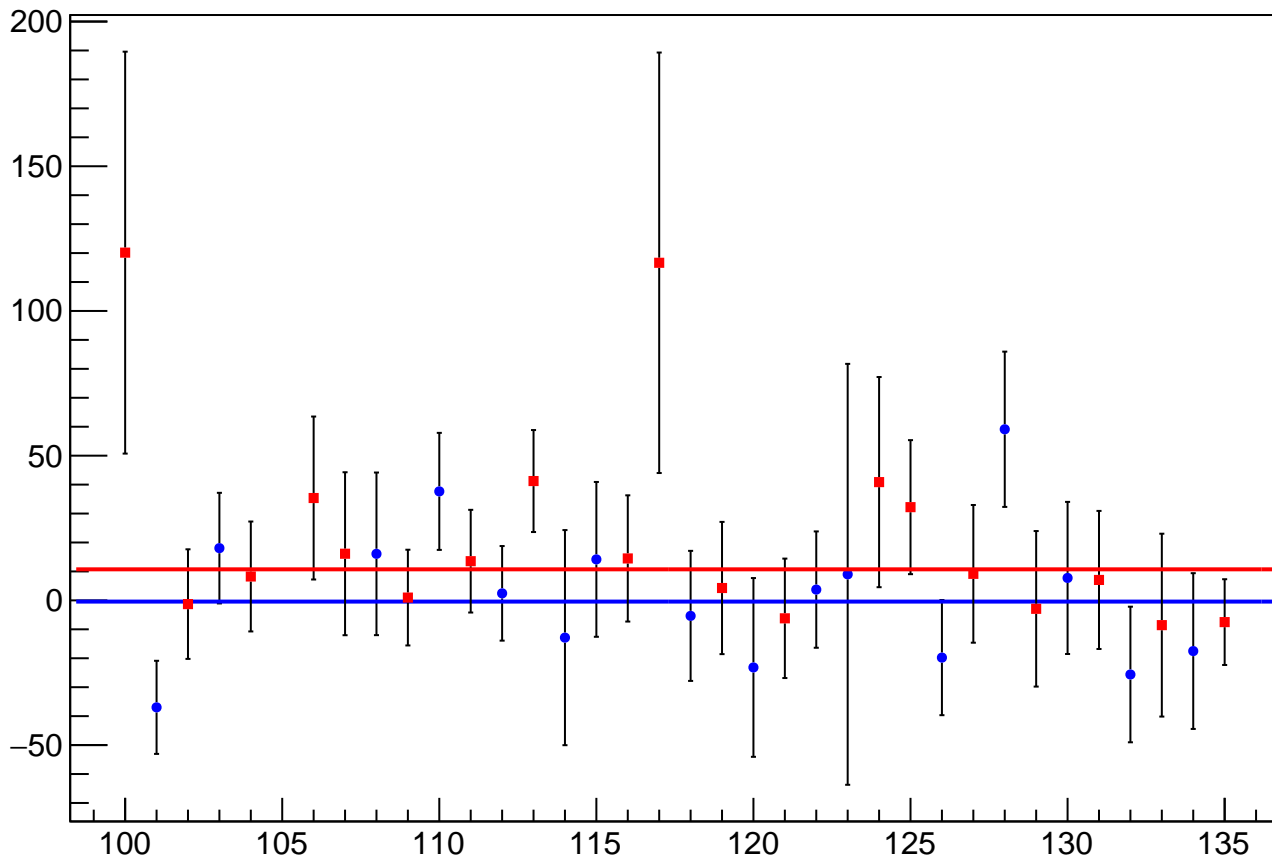
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

8678.772+/-2.576  $\chi^2$ /NDF: 261217.5/15

8136.589+/-1.645  $\chi^2$ /NDF: 960315.6/34

7763.393+/-2.137  $\chi^2$ /NDF: 624322.0/18

# diff\_bpm4eX\_mean vs Slug, Sign Corrected



Right In:  $-0.418 \pm 5.732$   $\chi^2/\text{NDF}$ : 18.6/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $10.727 \pm 5.130$   $\chi^2/\text{NDF}$ : 13.7/18

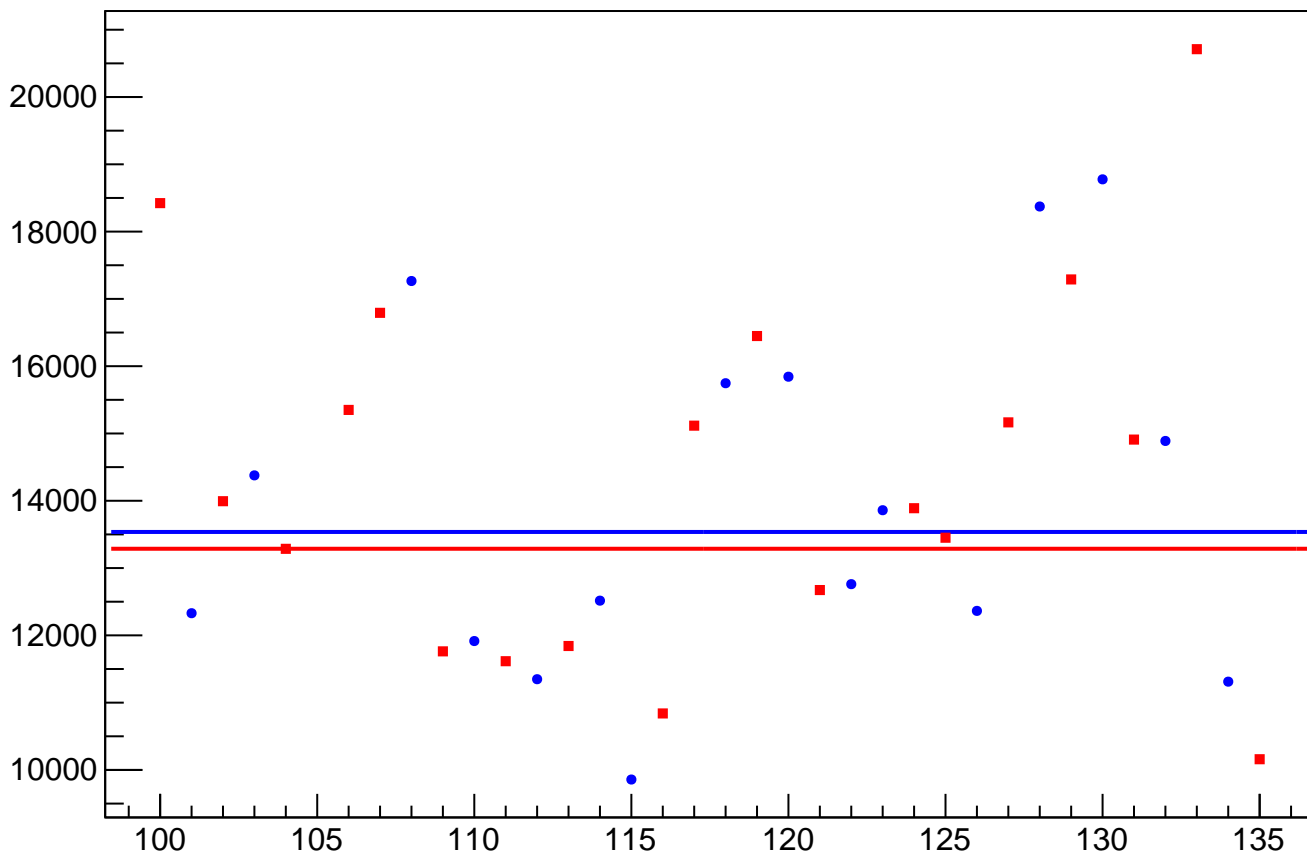
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.418 \pm 5.732$   $\chi^2/\text{NDF}$ : 18.6/15

$5.770 \pm 3.823$   $\chi^2/\text{NDF}$ : 34.4/34

$10.727 \pm 5.130$   $\chi^2/\text{NDF}$ : 13.7/18

# diff\_bpm4eX\_rms vs Slug, Sign Corrected



Right In: 13536.586 $\pm$ 4.053  $\chi^2$ /NDF: 343765.9/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 13286.946 $\pm$ 3.628  $\chi^2$ /NDF: 436525.2/18

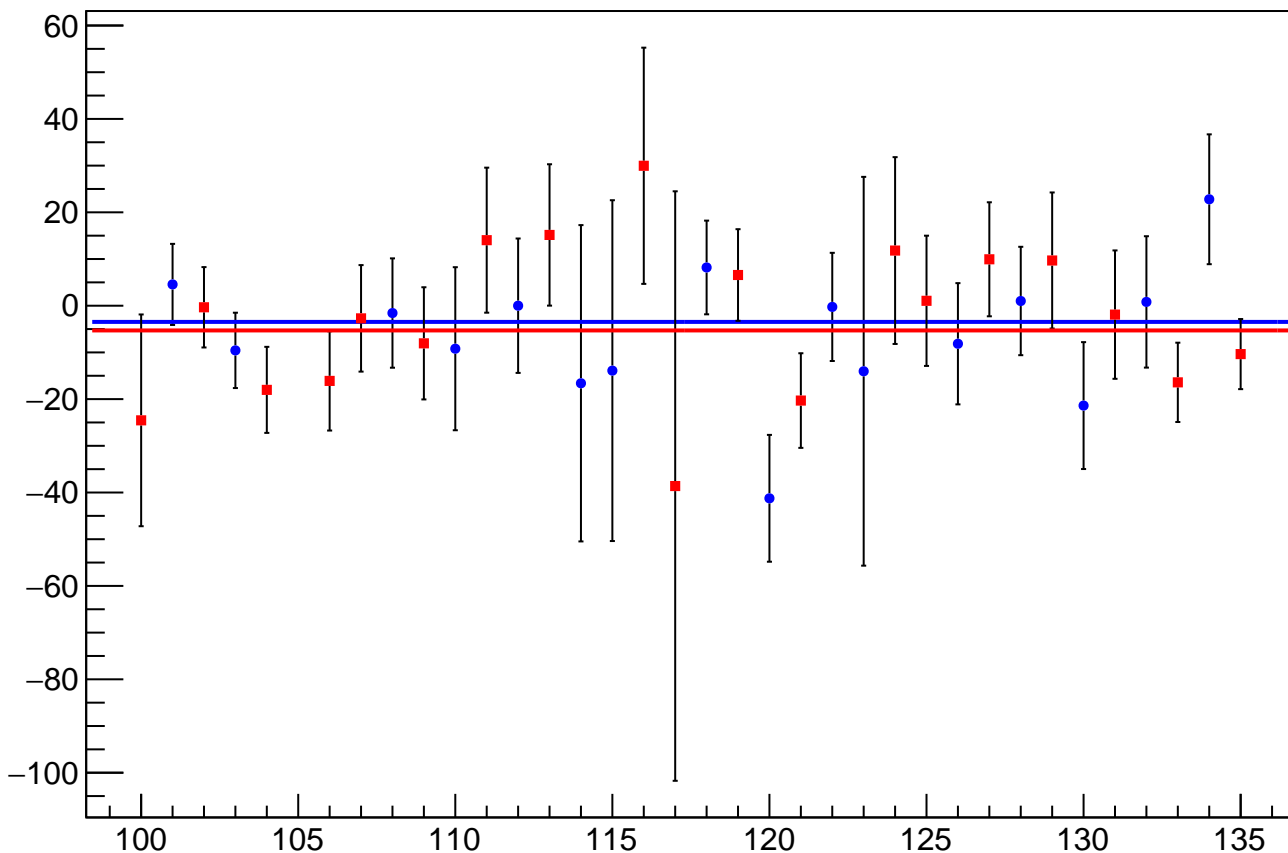
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

13536.586 $\pm$ 4.053  $\chi^2$ /NDF: 343765.9/15

13397.988 $\pm$ 2.703  $\chi^2$ /NDF: 782397.6/34

13286.946 $\pm$ 3.628  $\chi^2$ /NDF: 436525.2/18

# diff\_bpm4eY\_mean vs Slug, Sign Corrected



Right In: -3.466+/-3.193  $\chi^2$ /NDF: 16.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5.294+/-2.700  $\chi^2$ /NDF: 19.1/18

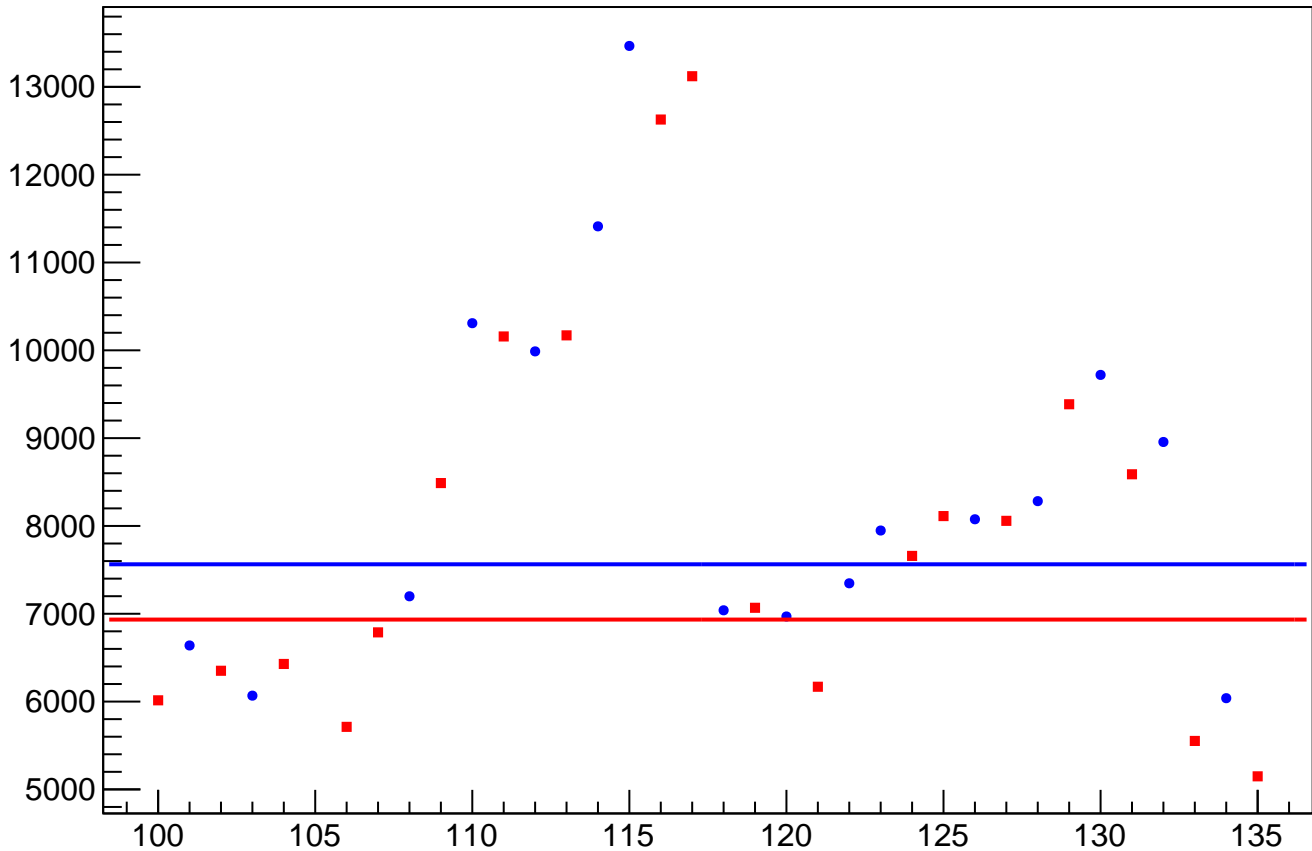
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-3.466+/-3.193  $\chi^2$ /NDF: 16.8/15

-4.532+/-2.062  $\chi^2$ /NDF: 36.1/34

-5.294+/-2.700  $\chi^2$ /NDF: 19.1/18

# diff\_bpm4eY\_rms vs Slug, Sign Corrected



Right In: 7563.353+/-2.258  $\chi^2$ /NDF: 392806.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6933.910+/-1.909  $\chi^2$ /NDF: 674395.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

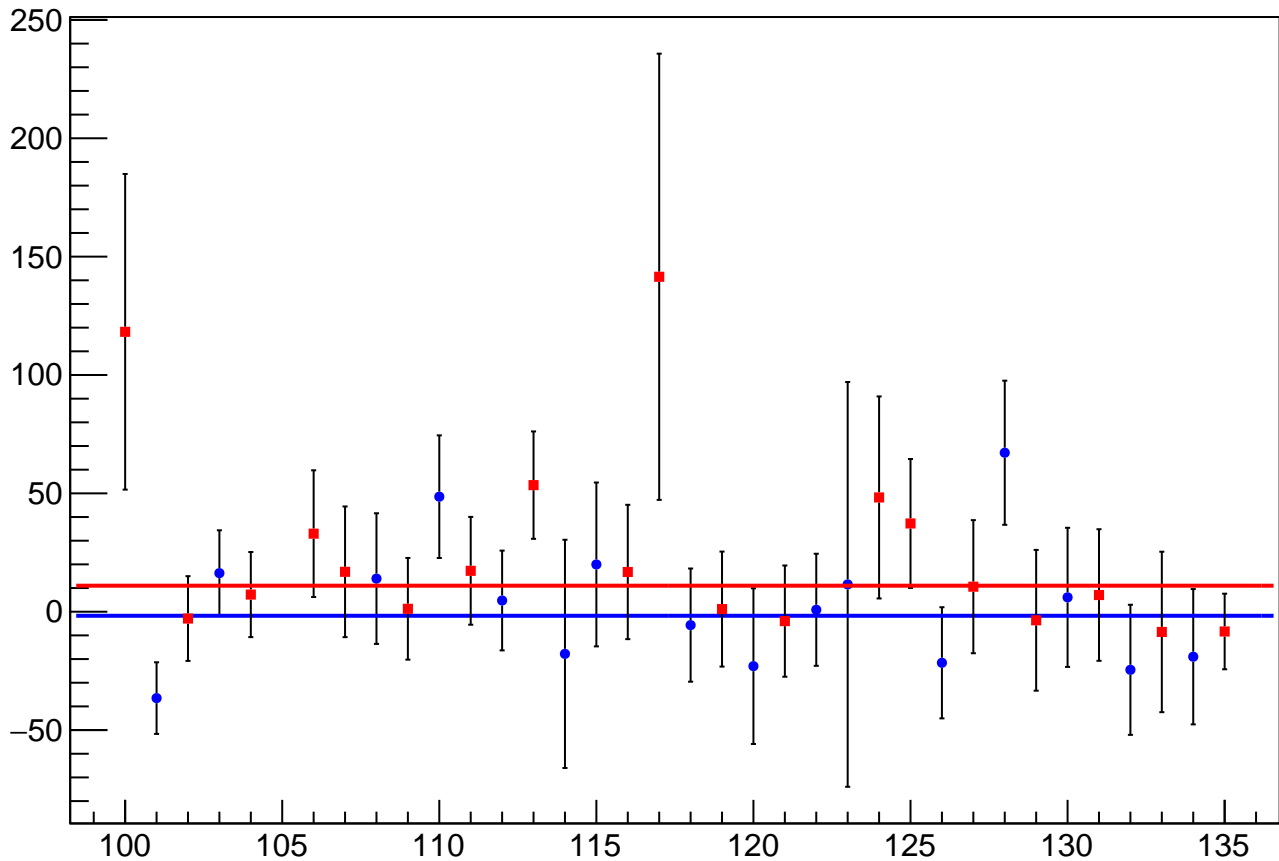
7563.353+/-2.258  $\chi^2$ /NDF: 392806.6/15

7196.345+/-1.458  $\chi^2$ /NDF: 1112508.7/34

6933.910+/-1.909  $\chi^2$ /NDF: 674395.7/18



# diff\_bpm4acX\_mean vs Slug, Sign Corrected



Right In:  $-1.713 \pm 6.333$   $\chi^2/\text{NDF}: 18.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $10.993 \pm 5.732$   $\chi^2/\text{NDF}: 14.0/18$

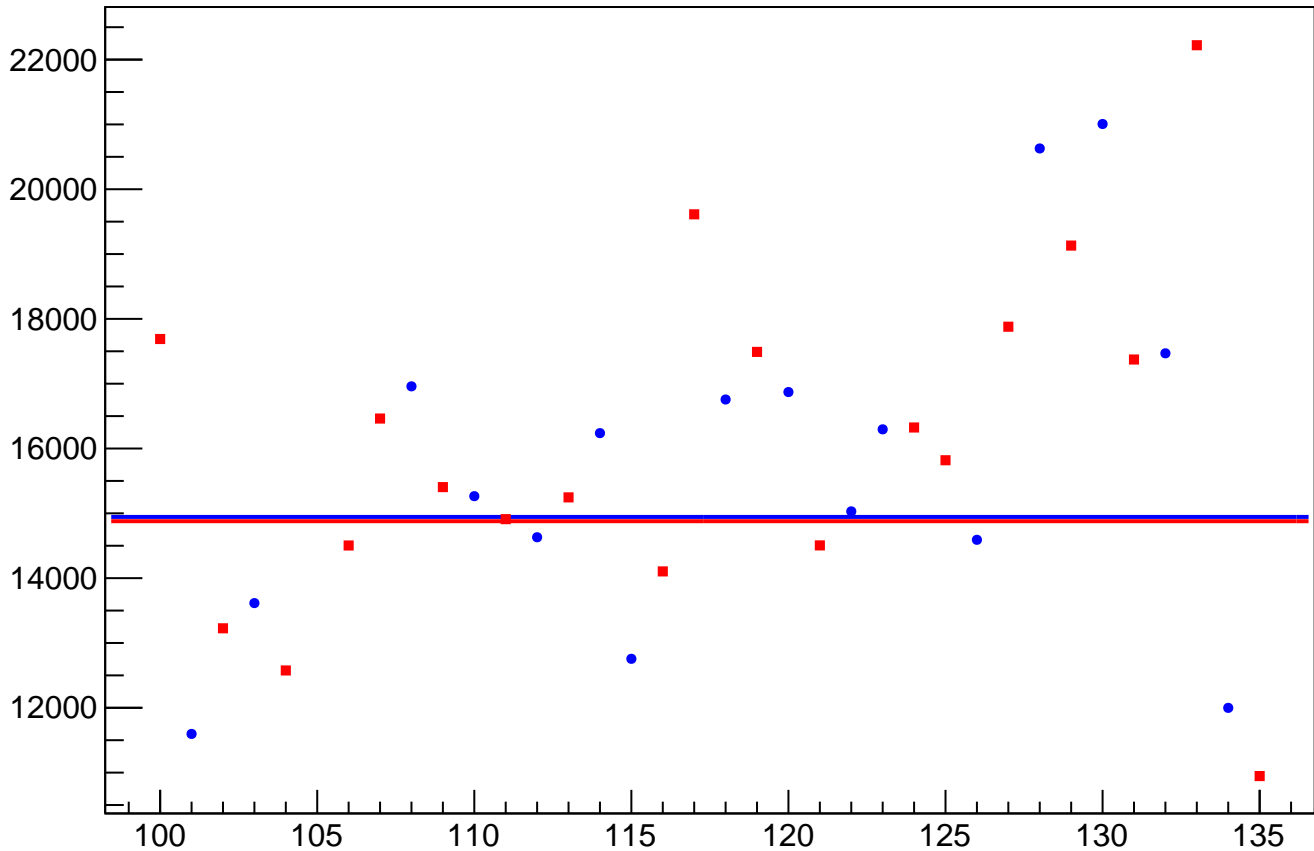
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1.713 \pm 6.333$   $\chi^2/\text{NDF}: 18.4/15$

$5.270 \pm 4.250$   $\chi^2/\text{NDF}: 34.7/34$

$10.993 \pm 5.732$   $\chi^2/\text{NDF}: 14.0/18$

# diff\_bpm4acX\_rms vs Slug, Sign Corrected



Right In: 14944.682 $\pm$ 4.478  $\chi^2$ /NDF: 341810.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 14878.518 $\pm$ 4.053  $\chi^2$ /NDF: 391940.1/18

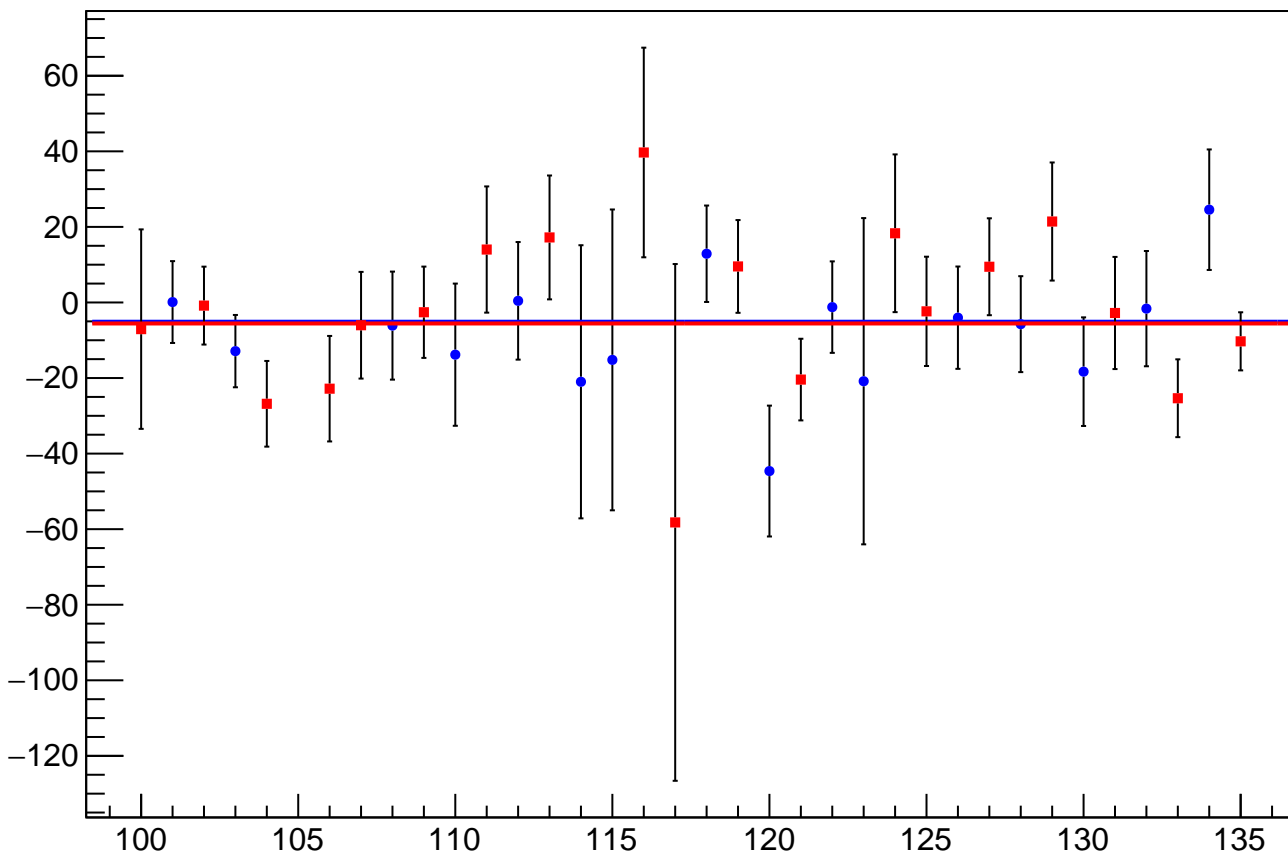
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

14944.682 $\pm$ 4.478  $\chi^2$ /NDF: 341810.3/15

14908.317 $\pm$ 3.005  $\chi^2$ /NDF: 733870.4/34

14878.518 $\pm$ 4.053  $\chi^2$ /NDF: 391940.1/18

# diff\_bpm4acY\_mean vs Slug, Sign Corrected



Right In: -5.097+/-3.670  $\chi^2$ /NDF: 13.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5.561+/-3.046  $\chi^2$ /NDF: 25.1/18

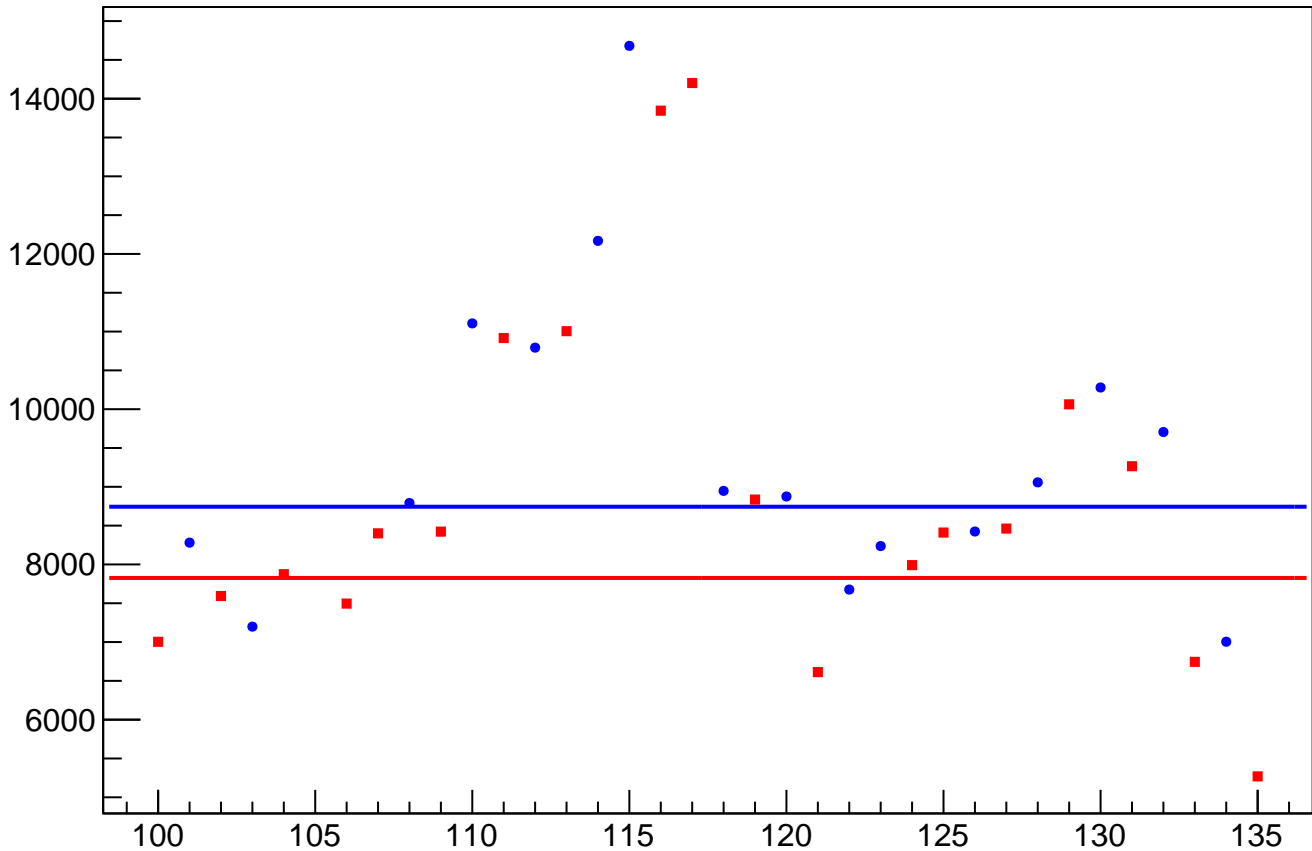
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-5.097+/-3.670  $\chi^2$ /NDF: 13.3/15

-5.372+/-2.344  $\chi^2$ /NDF: 38.4/34

-5.561+/-3.046  $\chi^2$ /NDF: 25.1/18

# diff\_bpm4acY\_rms vs Slug, Sign Corrected



Right In: 8743.494+/-2.595  $\chi^2$ /NDF: 257800.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7825.705+/-2.154  $\chi^2$ /NDF: 617564.7/18

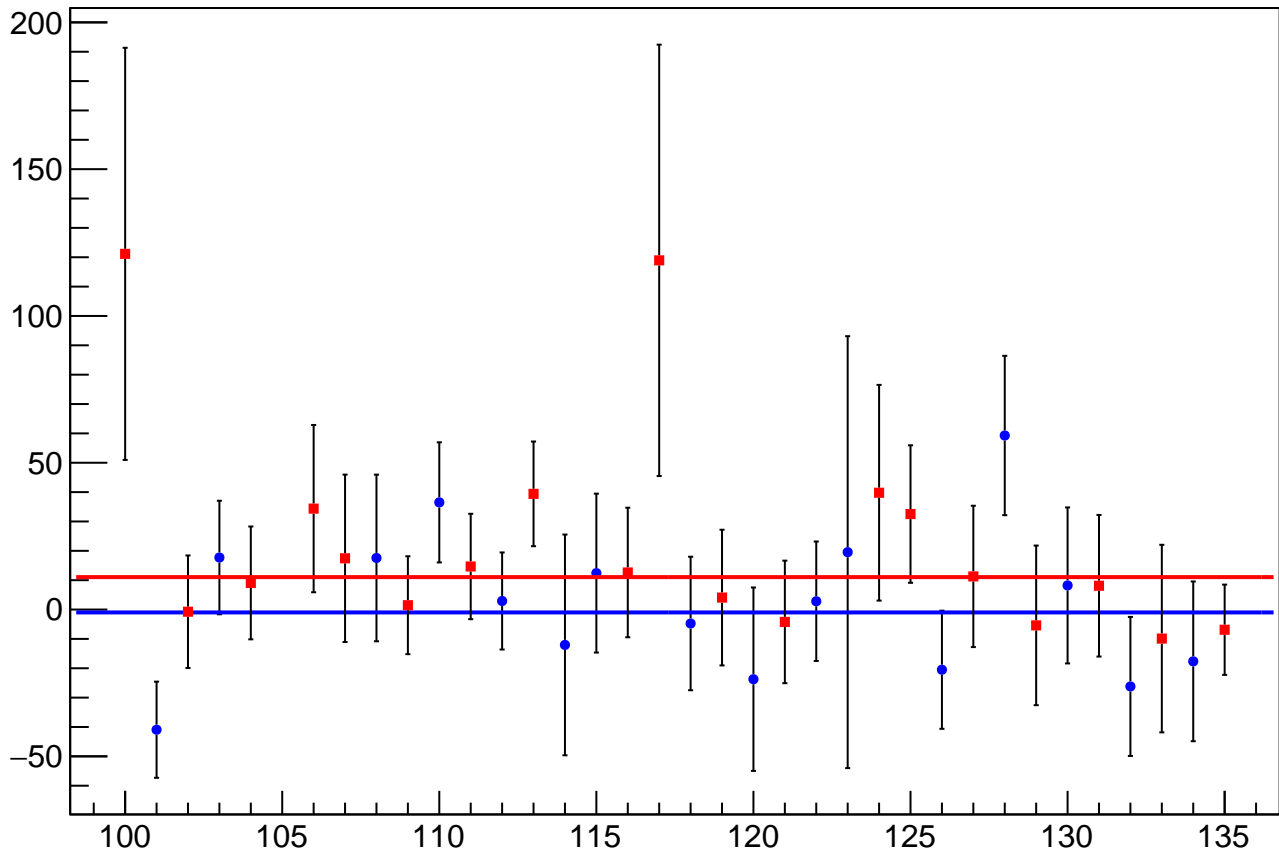
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

8743.494+/-2.595  $\chi^2$ /NDF: 257800.7/15

8200.076+/-1.657  $\chi^2$ /NDF: 949427.1/34

7825.705+/-2.154  $\chi^2$ /NDF: 617564.7/18

# diff\_bpm4ecX\_mean vs Slug, Sign Corrected



Right In:  $-0.983 \pm 5.802$   $\chi^2/\text{NDF}$ : 19.2/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $11.045 \pm 5.204$   $\chi^2/\text{NDF}$ : 12.9/18

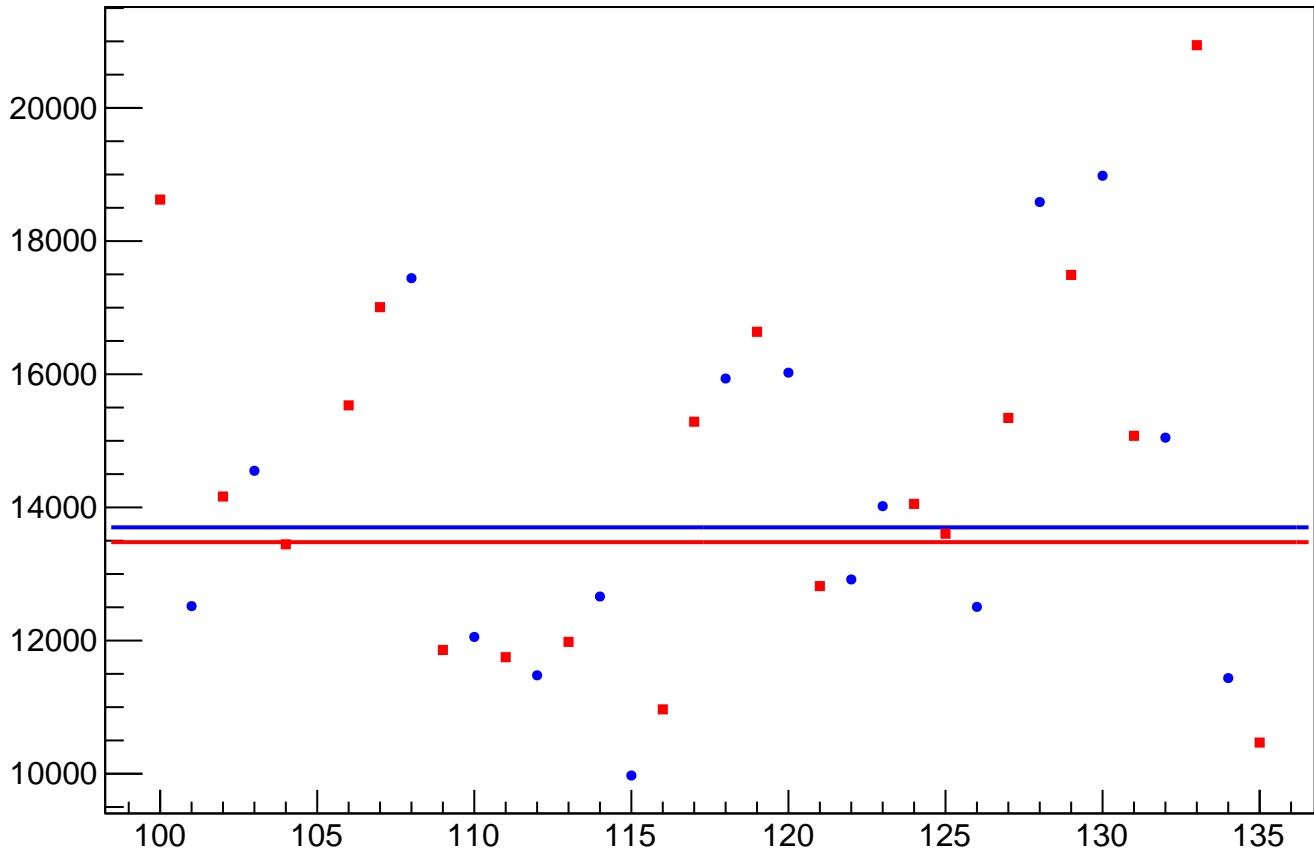
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.983 \pm 5.802$   $\chi^2/\text{NDF}$ : 19.2/15

$5.683 \pm 3.874$   $\chi^2/\text{NDF}$ : 34.5/34

$11.045 \pm 5.204$   $\chi^2/\text{NDF}$ : 12.9/18

# diff\_bpm4ecX\_rms vs Slug, Sign Corrected



Right In: 13700.757+/-4.103  $\chi^2$ /NDF: 342230.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13478.461+/-3.680  $\chi^2$ /NDF: 423143.3/18

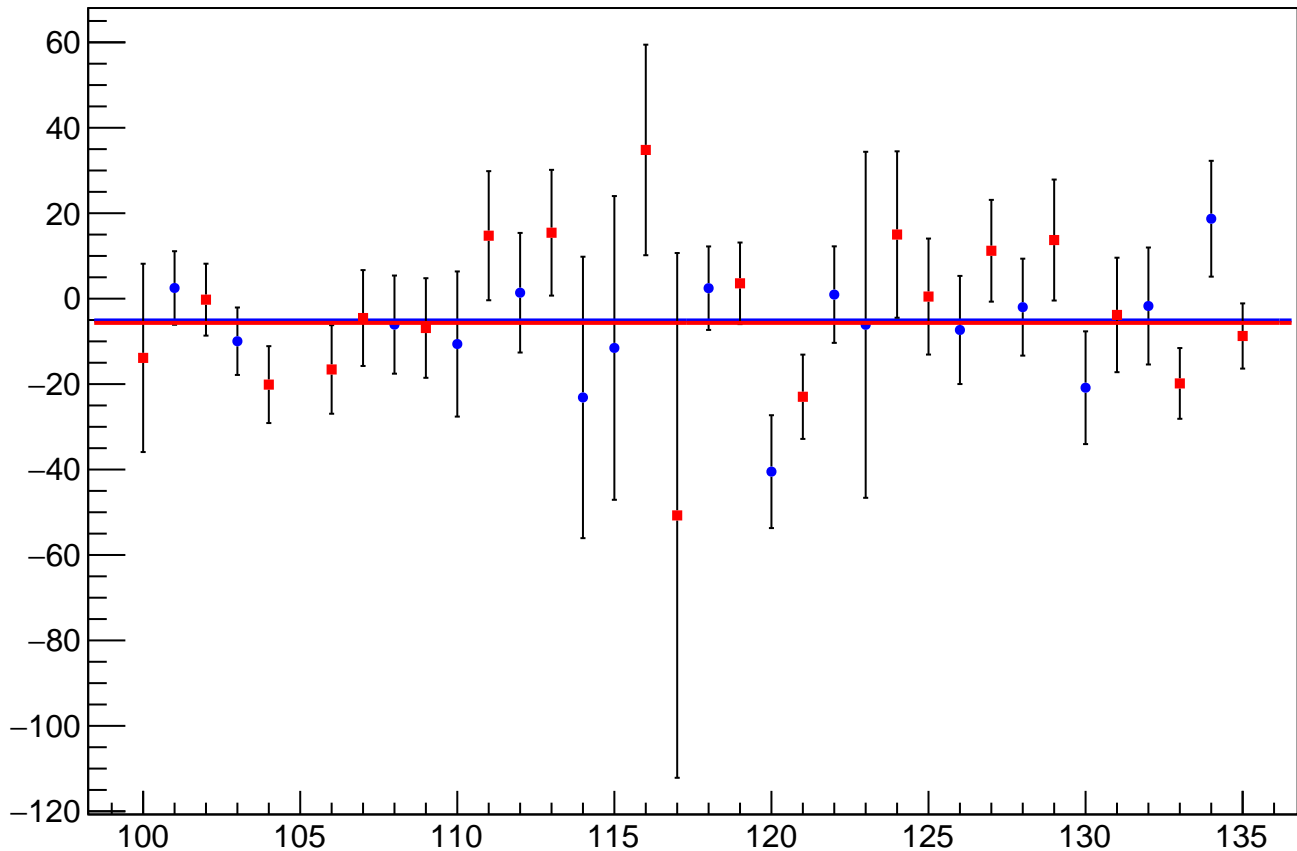
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

13700.757+/-4.103  $\chi^2$ /NDF: 342230.3/15

13577.563+/-2.739  $\chi^2$ /NDF: 767000.5/34

13478.461+/-3.680  $\chi^2$ /NDF: 423143.3/18

# diff\_bpm4ecY\_mean vs Slug, Sign Corrected



Right In: -5.101+/-3.122  $\chi^2$ /NDF: 14.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5.669+/-2.647  $\chi^2$ /NDF: 23.7/18

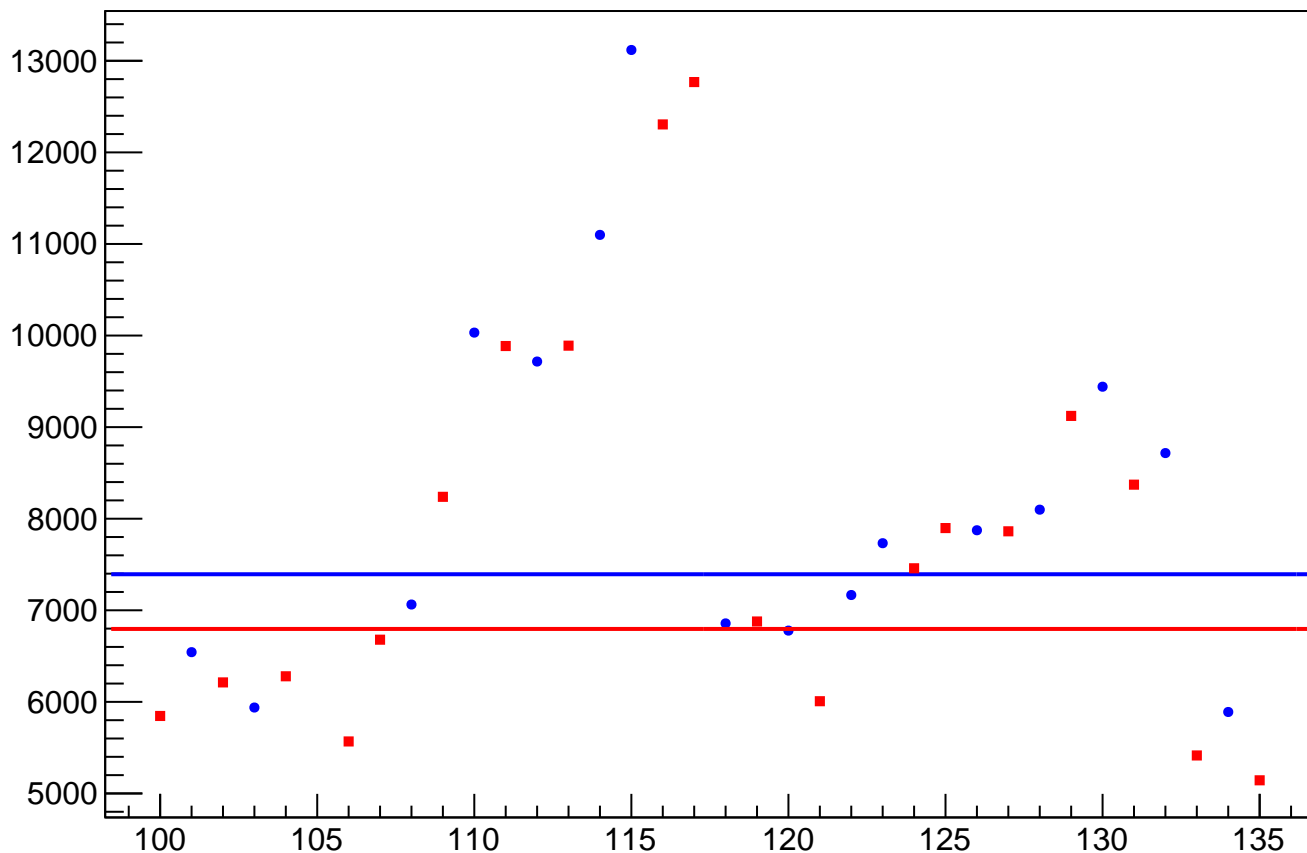
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-5.101+/-3.122  $\chi^2$ /NDF: 14.6/15

-5.431+/-2.019  $\chi^2$ /NDF: 38.3/34

-5.669+/-2.647  $\chi^2$ /NDF: 23.7/18

# diff\_bpm4ecY\_rms vs Slug, Sign Corrected



Right In: 7393.578+/-2.208  $\chi^2$ /NDF: 383010.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6796.376+/-1.872  $\chi^2$ /NDF: 645188.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

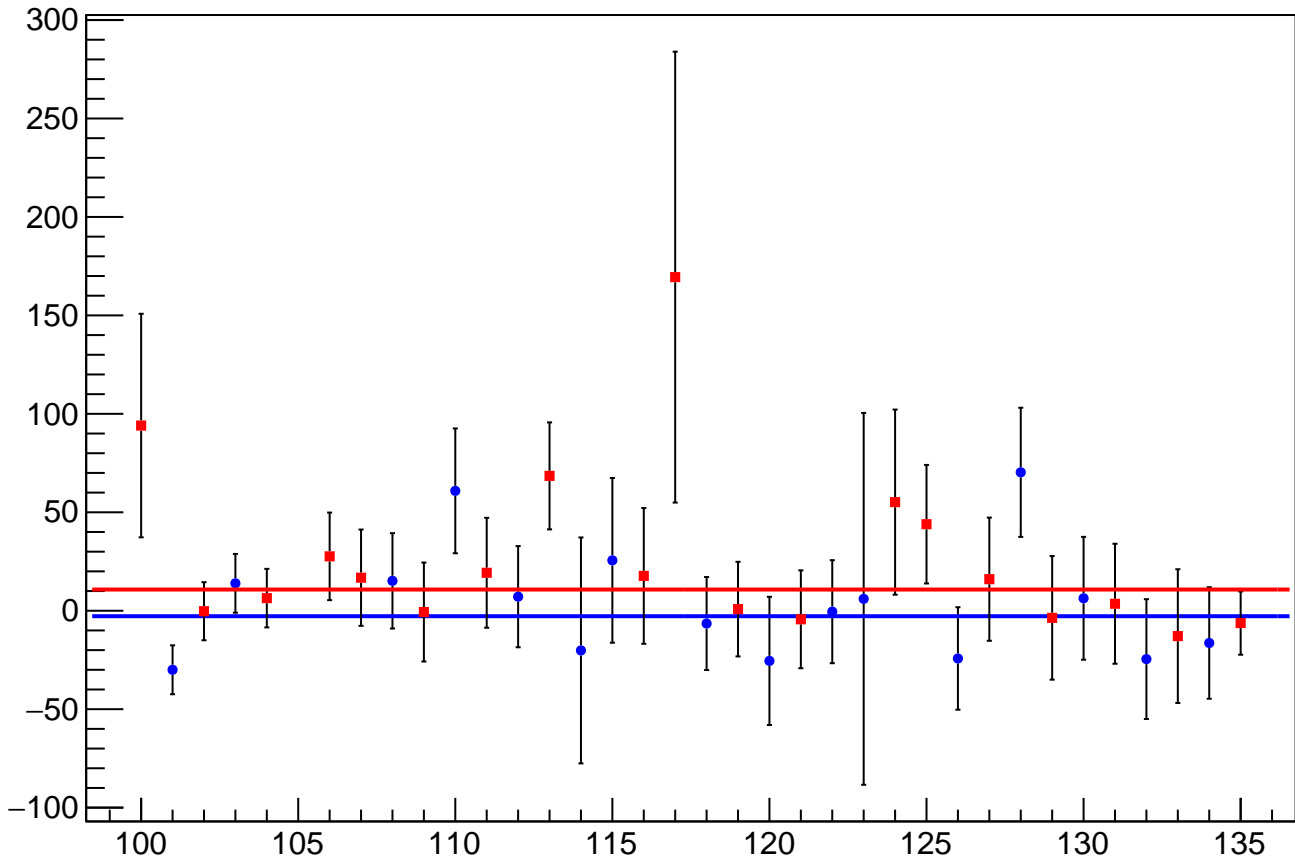
7393.578+/-2.208  $\chi^2$ /NDF: 383010.4/15

7046.133+/-1.428  $\chi^2$ /NDF: 1070768.6/34

6796.376+/-1.872  $\chi^2$ /NDF: 645188.7/18



# diff\_bpm1X\_mean vs Slug, Sign Corrected



Right In:  $-2.779 \pm 6.186$   $\chi^2/\text{NDF}: 18.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $10.770 \pm 5.677$   $\chi^2/\text{NDF}: 14.8/18$

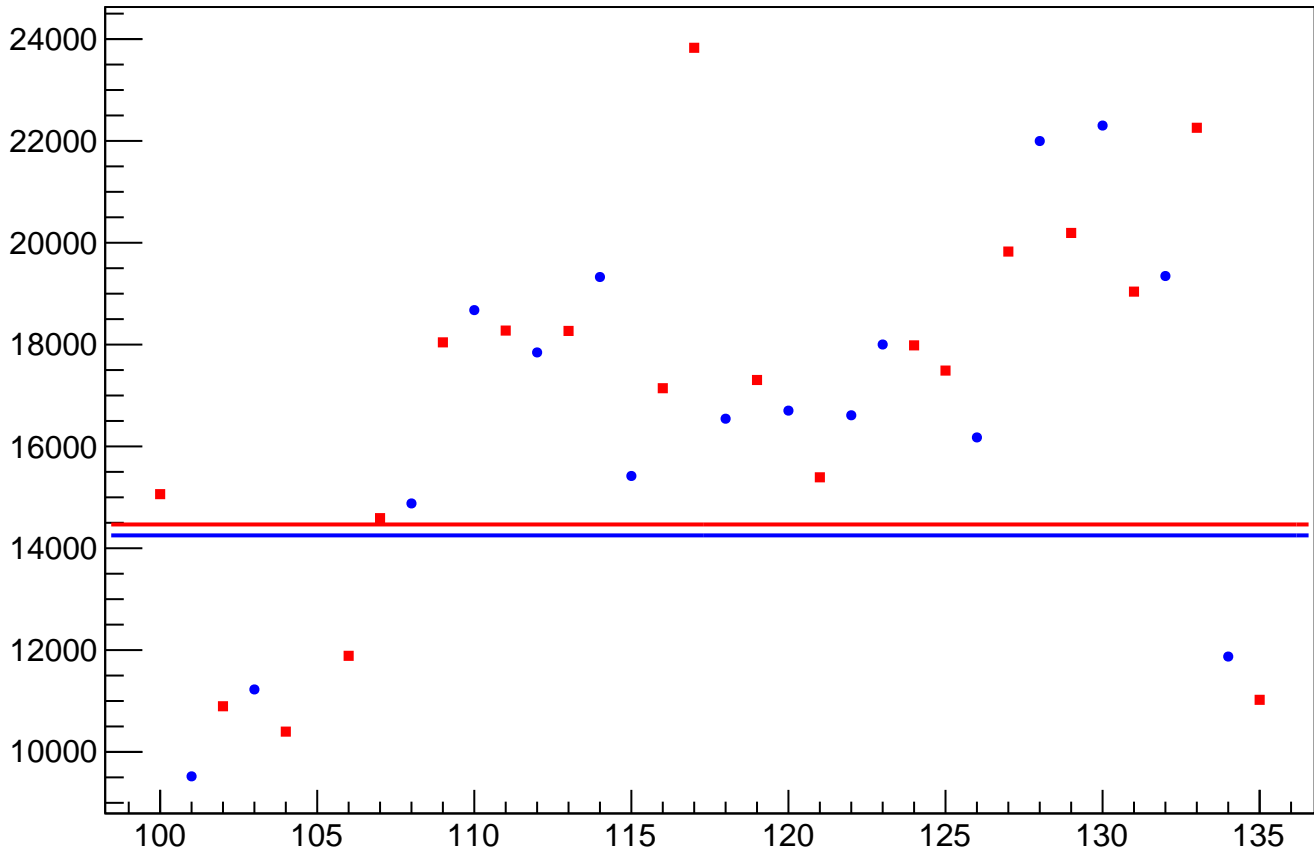
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2.779 \pm 6.186$   $\chi^2/\text{NDF}: 18.3/15$

$4.575 \pm 4.183$   $\chi^2/\text{NDF}: 35.7/34$

$10.770 \pm 5.677$   $\chi^2/\text{NDF}: 14.8/18$

# diff\_bpm1X\_rms vs Slug, Sign Corrected



Right In: 14252.600+/-4.374  $\chi^2$ /NDF: 844569.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 14467.190+/-4.014  $\chi^2$ /NDF: 866003.4/18

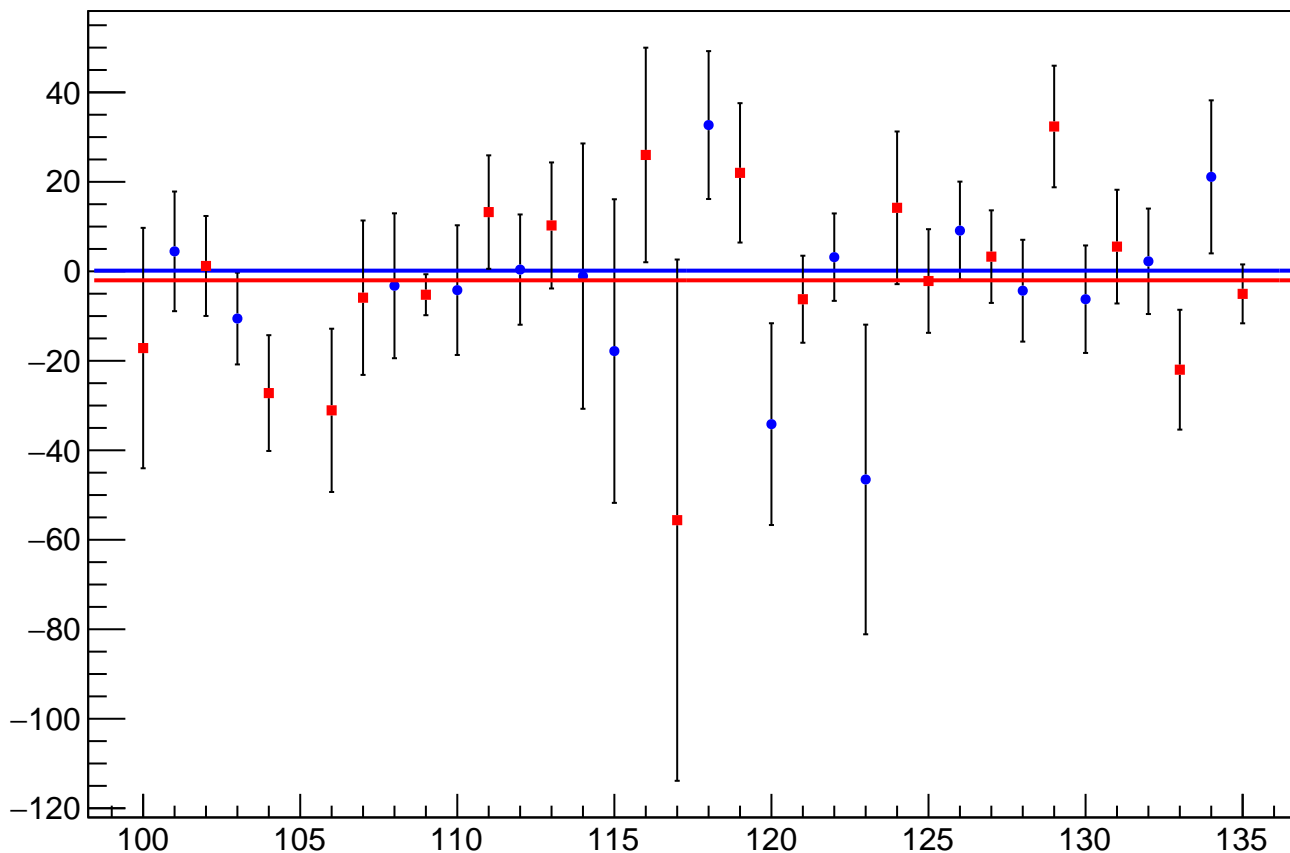
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

14252.600+/-4.374  $\chi^2$ /NDF: 844569.7/15

14369.074+/-2.958  $\chi^2$ /NDF: 1711879.6/3

14467.190+/-4.014  $\chi^2$ /NDF: 866003.4/18

# diff\_bpm1Y\_mean vs Slug, Sign Corrected



Right In: 0.154+/-3.475  $\chi^2$ /NDF: 12.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.011+/-2.516  $\chi^2$ /NDF: 24.6/18

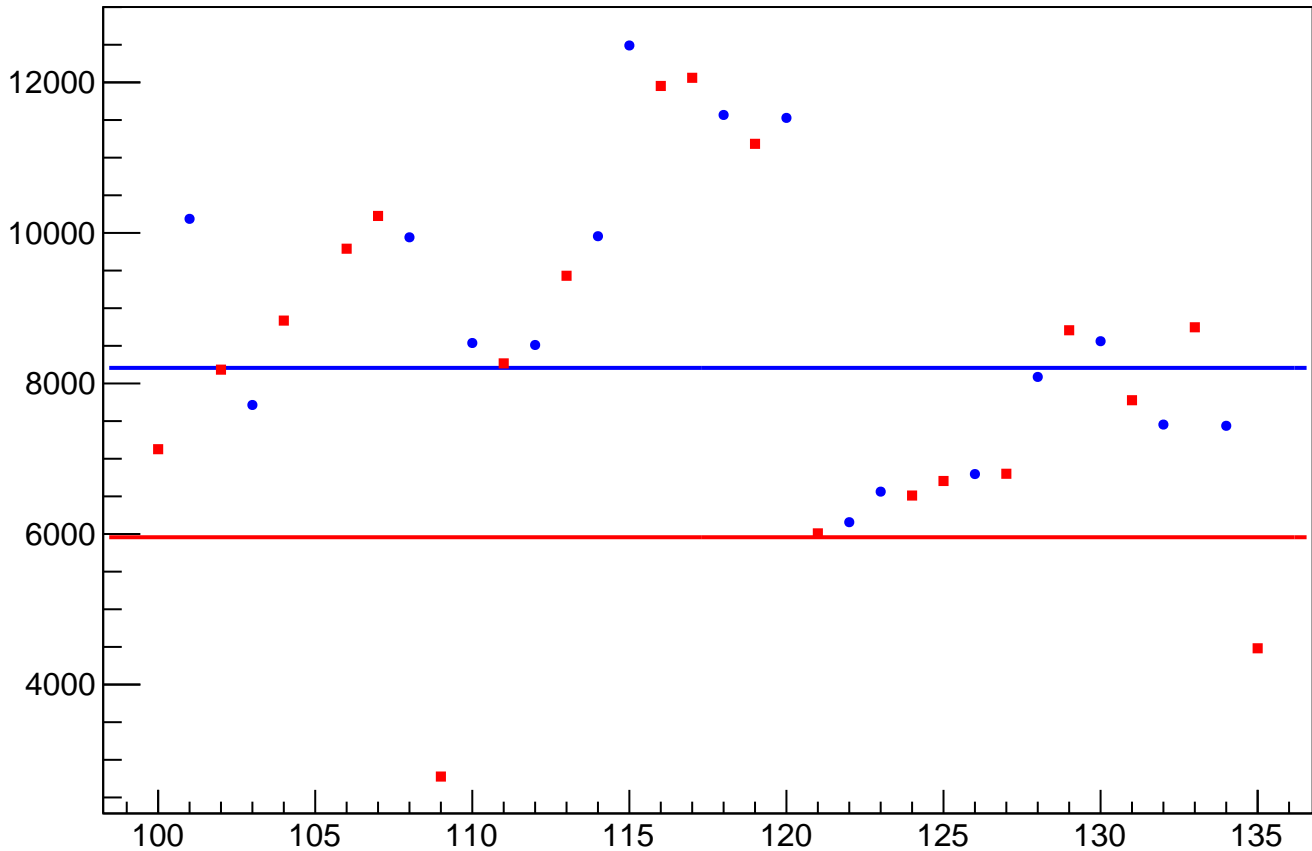
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.154+/-3.475  $\chi^2$ /NDF: 12.4/15

-1.267+/-2.038  $\chi^2$ /NDF: 37.2/34

-2.011+/-2.516  $\chi^2$ /NDF: 24.6/18

# diff\_bpm1Y\_rms vs Slug, Sign Corrected



Right In: 8207.066 $\pm$ 2.457  $\chi^2$ /NDF: 378503.3/15

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

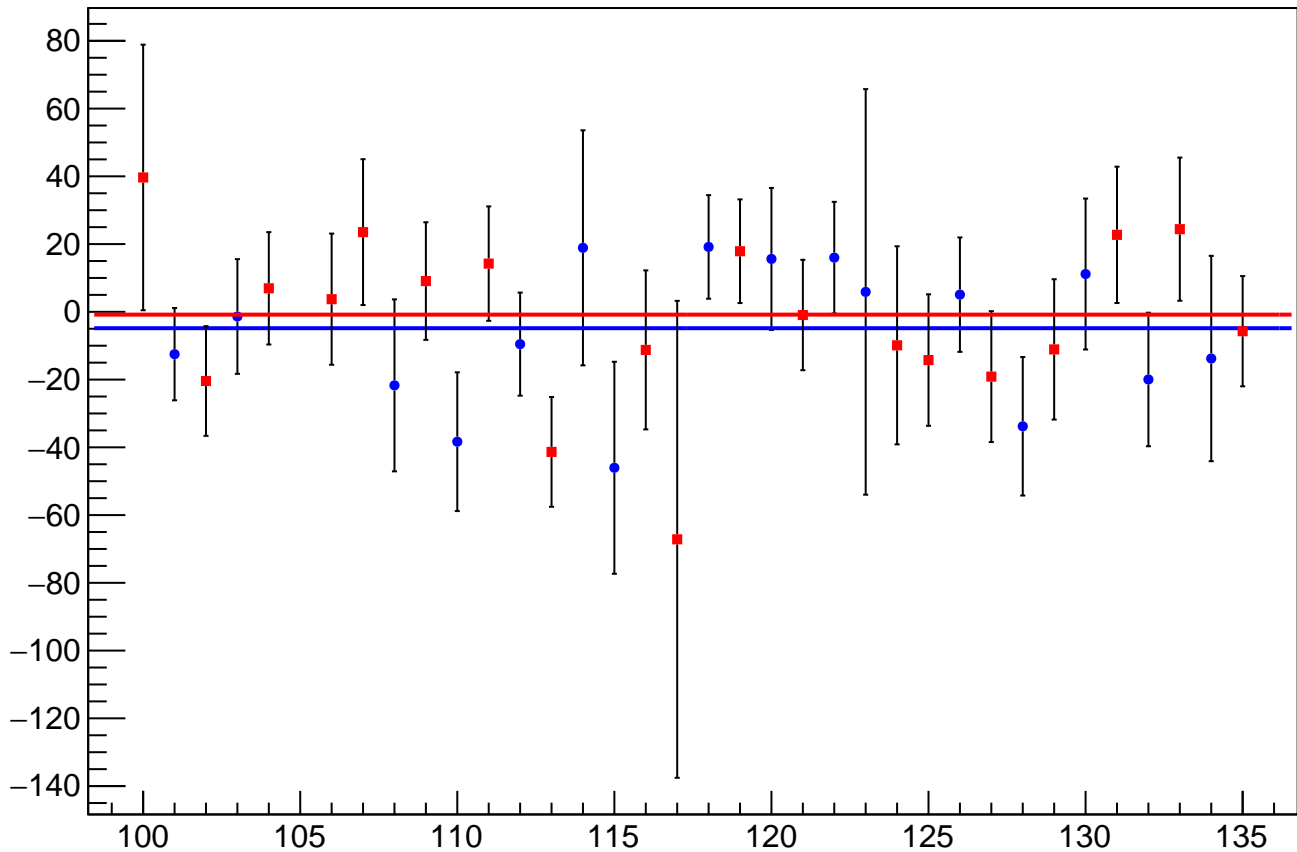
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

8207.066 $\pm$ 2.457  $\chi^2$ /NDF: 378503.3/15

6730.950 $\pm$ 1.441  $\chi^2$ /NDF: 3180285.1/34

5957.055 $\pm$ 1.779  $\chi^2$ /NDF: 2251792.1/18

# diff\_bpm11X\_mean vs Slug, Sign Corrected



Right In: -4.834+/-4.934  $\chi^2$ /NDF: 14.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.823+/-4.431  $\chi^2$ /NDF: 18.6/18

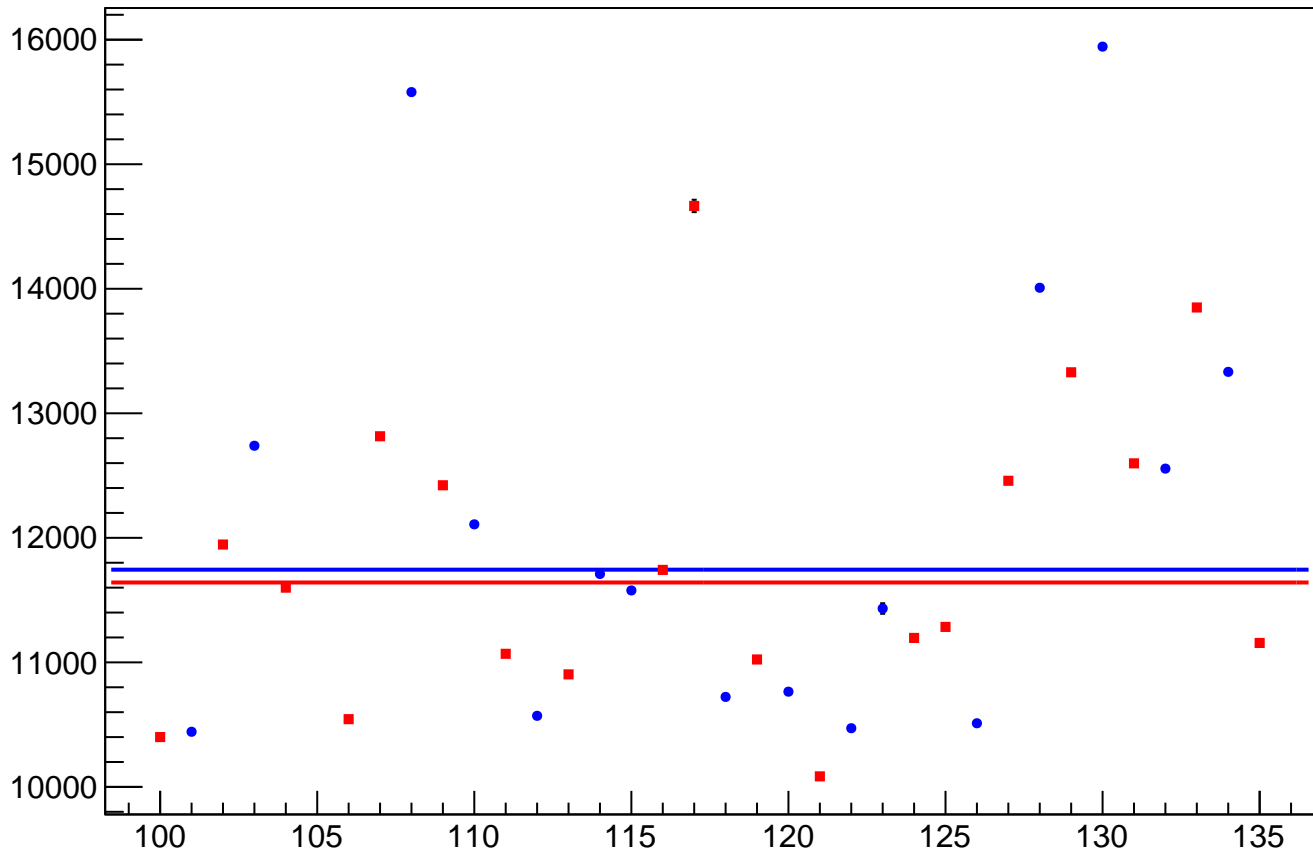
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-4.834+/-4.934  $\chi^2$ /NDF: 14.4/15

-2.613+/-3.297  $\chi^2$ /NDF: 33.4/34

-0.823+/-4.431  $\chi^2$ /NDF: 18.6/18

# diff\_bpm11X\_rms vs Slug, Sign Corrected



Right In: 11744.373+/-3.489  $\chi^2$ /NDF: 223865.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11641.453+/-3.133  $\chi^2$ /NDF: 96988.7/18

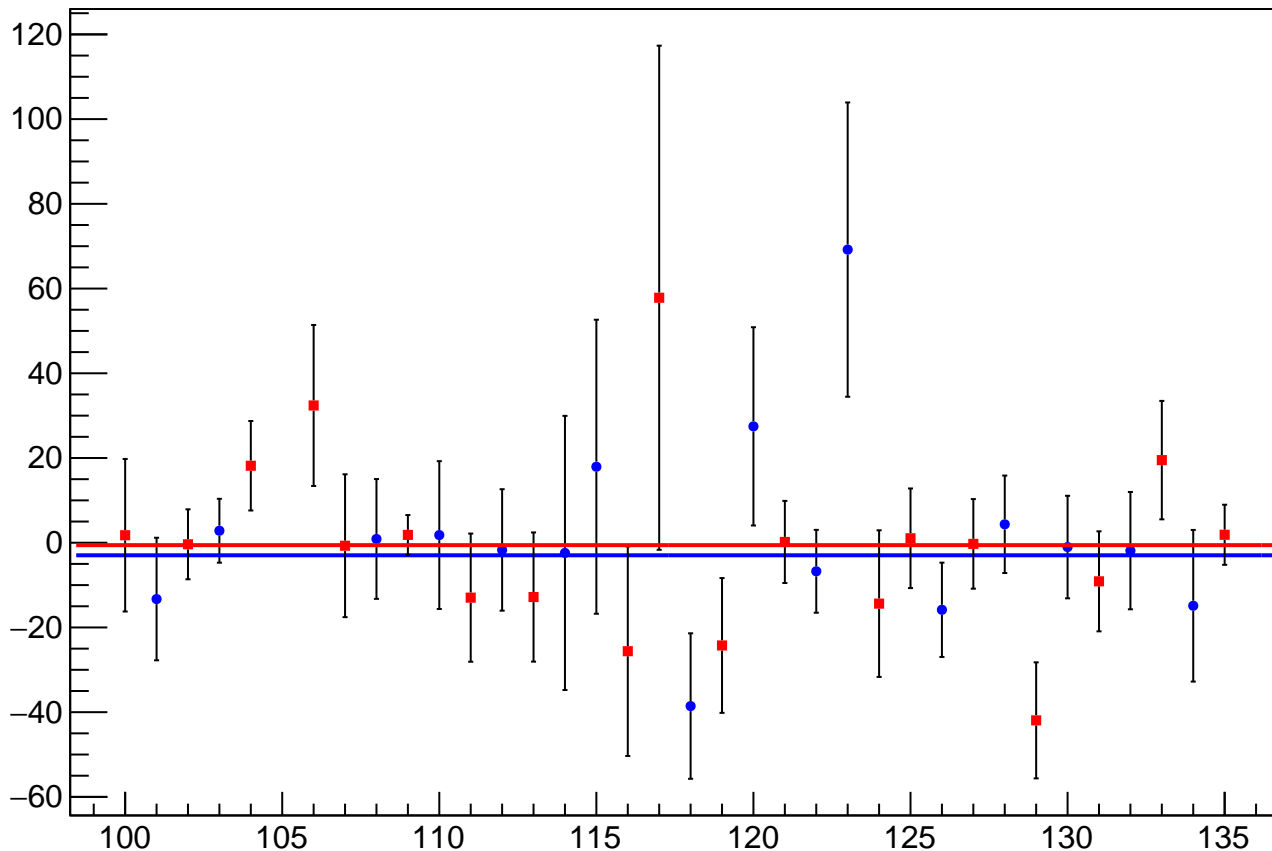
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

11744.373+/-3.489  $\chi^2$ /NDF: 223865.2/15

11687.401+/-2.331  $\chi^2$ /NDF: 321335.6/34

11641.453+/-3.133  $\chi^2$ /NDF: 96988.7/18

# diff\_bpm11Y\_mean vs Slug, Sign Corrected



Right In:  $-2.965 \pm 3.438$   $\chi^2/\text{NDF}: 14.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.569 \pm 2.495$   $\chi^2/\text{NDF}: 24.4/18$

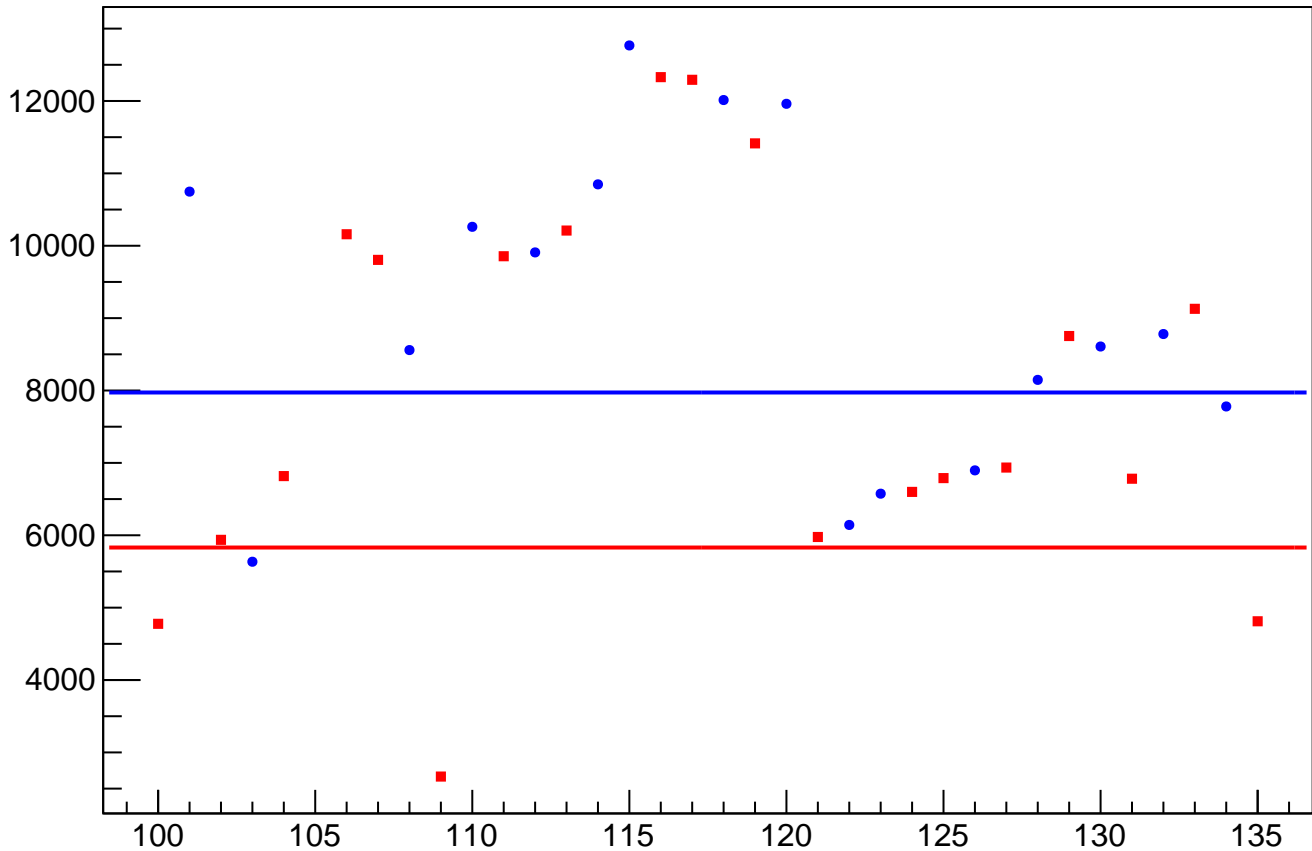
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2.965 \pm 3.438$   $\chi^2/\text{NDF}: 14.3/15$

$-1.396 \pm 2.019$   $\chi^2/\text{NDF}: 39.1/34$

$-0.569 \pm 2.495$   $\chi^2/\text{NDF}: 24.4/18$

# diff\_bpm11Y\_rms vs Slug, Sign Corrected



Right In: 7972.633+/-2.431  $\chi^2$ /NDF: 668007.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5830.749+/-1.764  $\chi^2$ /NDF: 2161169.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

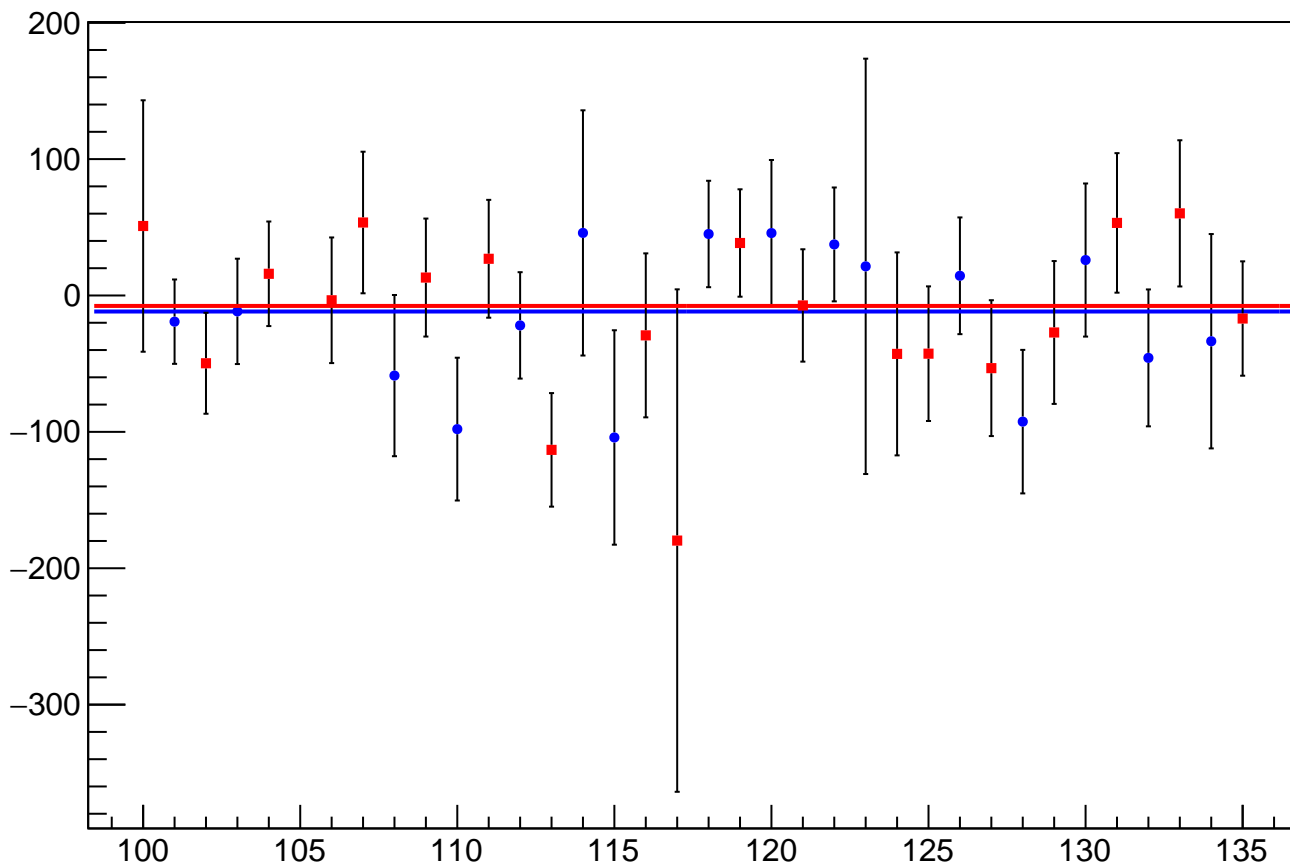
7972.633+/-2.431  $\chi^2$ /NDF: 668007.0/15

6569.443+/-1.428  $\chi^2$ /NDF: 3337673.4/34

5830.749+/-1.764  $\chi^2$ /NDF: 2161169.7/18



# diff\_bpm12X\_mean vs Slug, Sign Corrected



Right In: -11.751 $\pm$ 12.203  $\chi^2$ /NDF: 13.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.657 $\pm$ 11.032  $\chi^2$ /NDF: 17.9/18

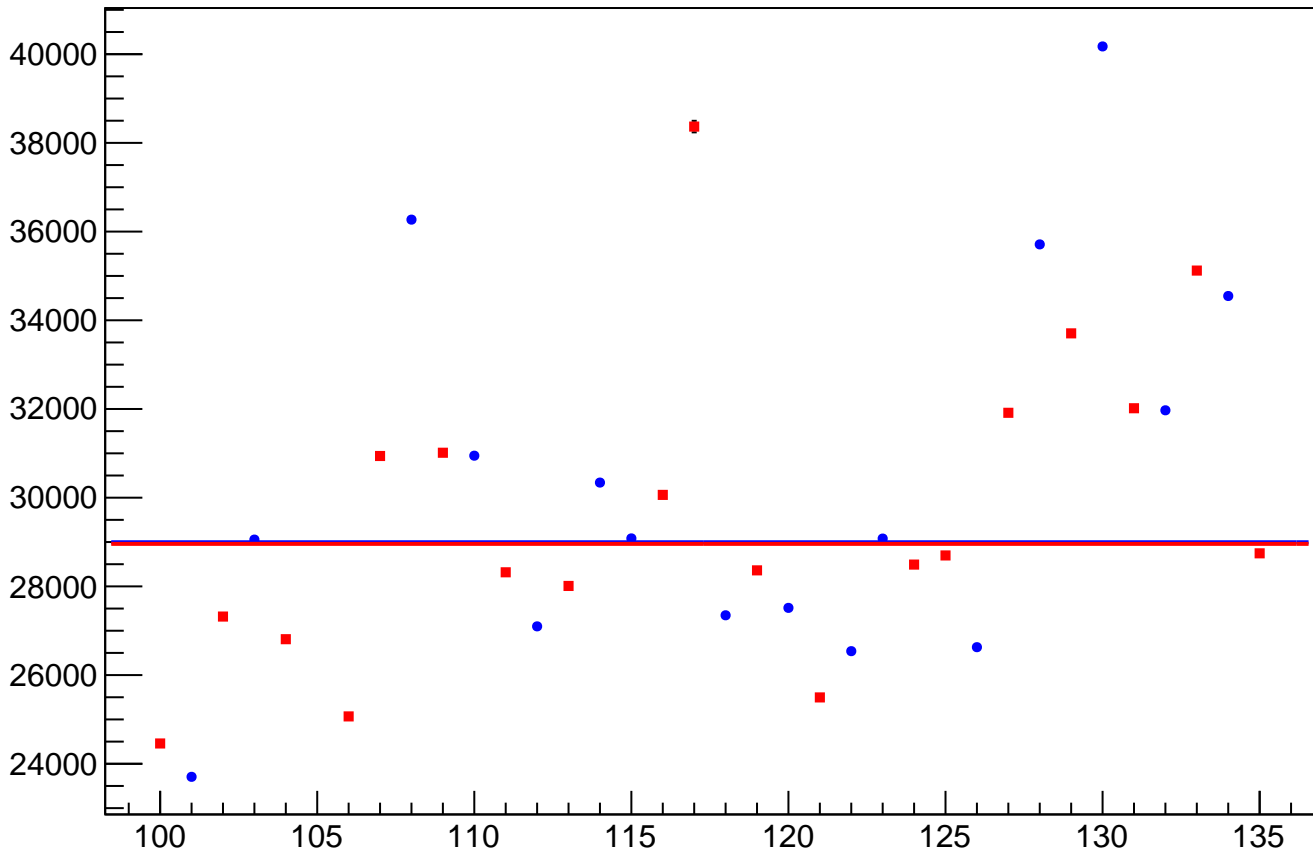
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

-11.751 $\pm$ 12.203  $\chi^2$ /NDF: 13.7/15

-9.498 $\pm$ 8.184  $\chi^2$ /NDF: 31.7/34

-7.657 $\pm$ 11.032  $\chi^2$ /NDF: 17.9/18

# diff\_bpm12X\_rms vs Slug, Sign Corrected



Right In: 28994.923+/-8.629  $\chi^2$ /NDF: 243808.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 28958.680+/-7.801  $\chi^2$ /NDF: 115876.1/18

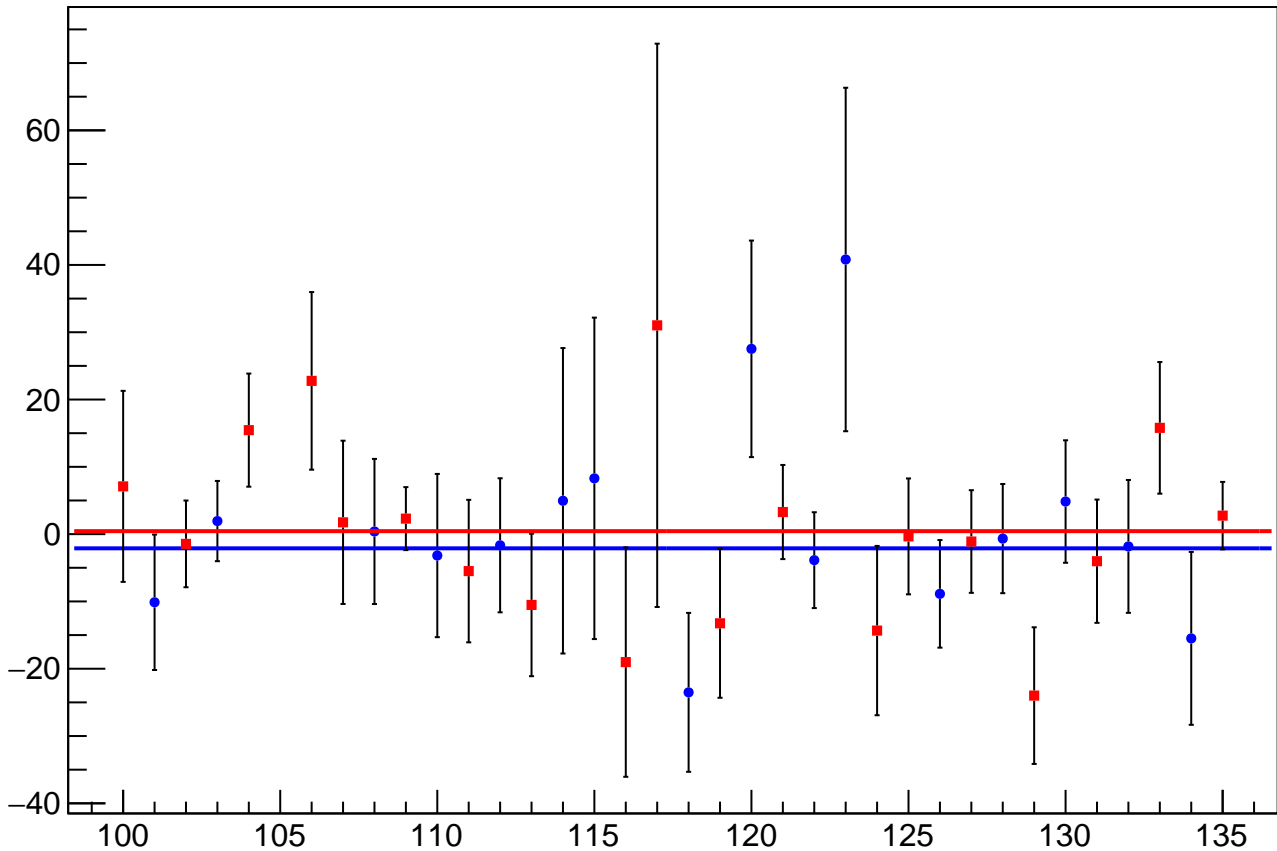
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

28994.923+/-8.629  $\chi^2$ /NDF: 243808.0/15

28974.981+/-5.787  $\chi^2$ /NDF: 359693.8/34

28958.680+/-7.801  $\chi^2$ /NDF: 115876.1/18

# diff\_bpm12Y\_mean vs Slug, Sign Corrected



Right In:  $-2.110 \pm 2.510$   $\chi^2/\text{NDF}: 13.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.443 \pm 1.958$   $\chi^2/\text{NDF}: 21.6/18$

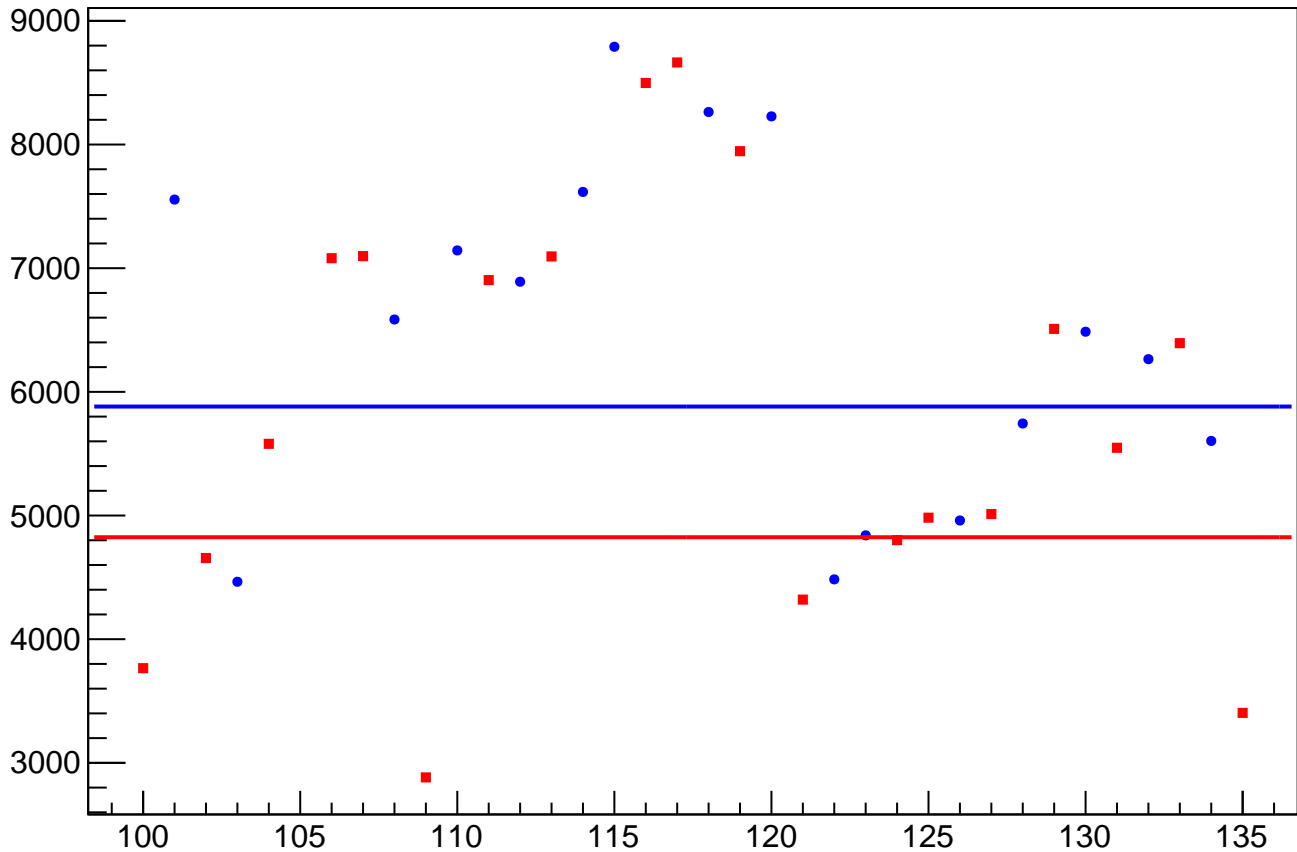
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2.110 \pm 2.510$   $\chi^2/\text{NDF}: 13.4/15$

$-0.523 \pm 1.544$   $\chi^2/\text{NDF}: 35.7/34$

$0.443 \pm 1.958$   $\chi^2/\text{NDF}: 21.6/18$

# diff\_bpm12Y\_rms vs Slug, Sign Corrected



Right In: 5881.206+/-1.775  $\chi^2$ /NDF: 504672.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4824.417+/-1.385  $\chi^2$ /NDF: 1231750.7/18

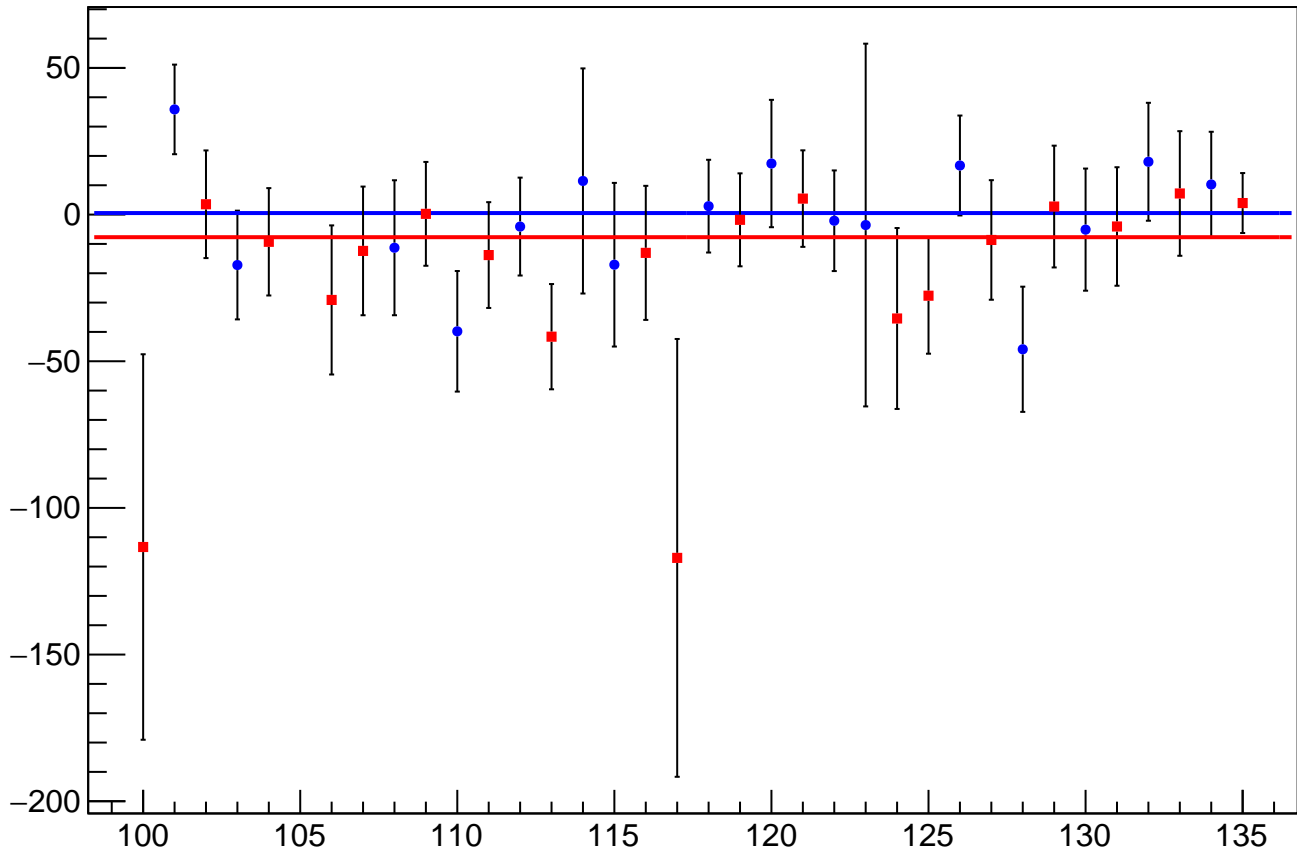
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

5881.206+/-1.775  $\chi^2$ /NDF: 504672.4/15

5224.264+/-1.092  $\chi^2$ /NDF: 1956799.9/34

4824.417+/-1.385  $\chi^2$ /NDF: 1231750.7/18

# diff\_bpm16X\_mean vs Slug, Sign Corrected



Right In: 0.523+/-4.981  $\chi^2$ /NDF: 18.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.704+/-4.405  $\chi^2$ /NDF: 14.5/18

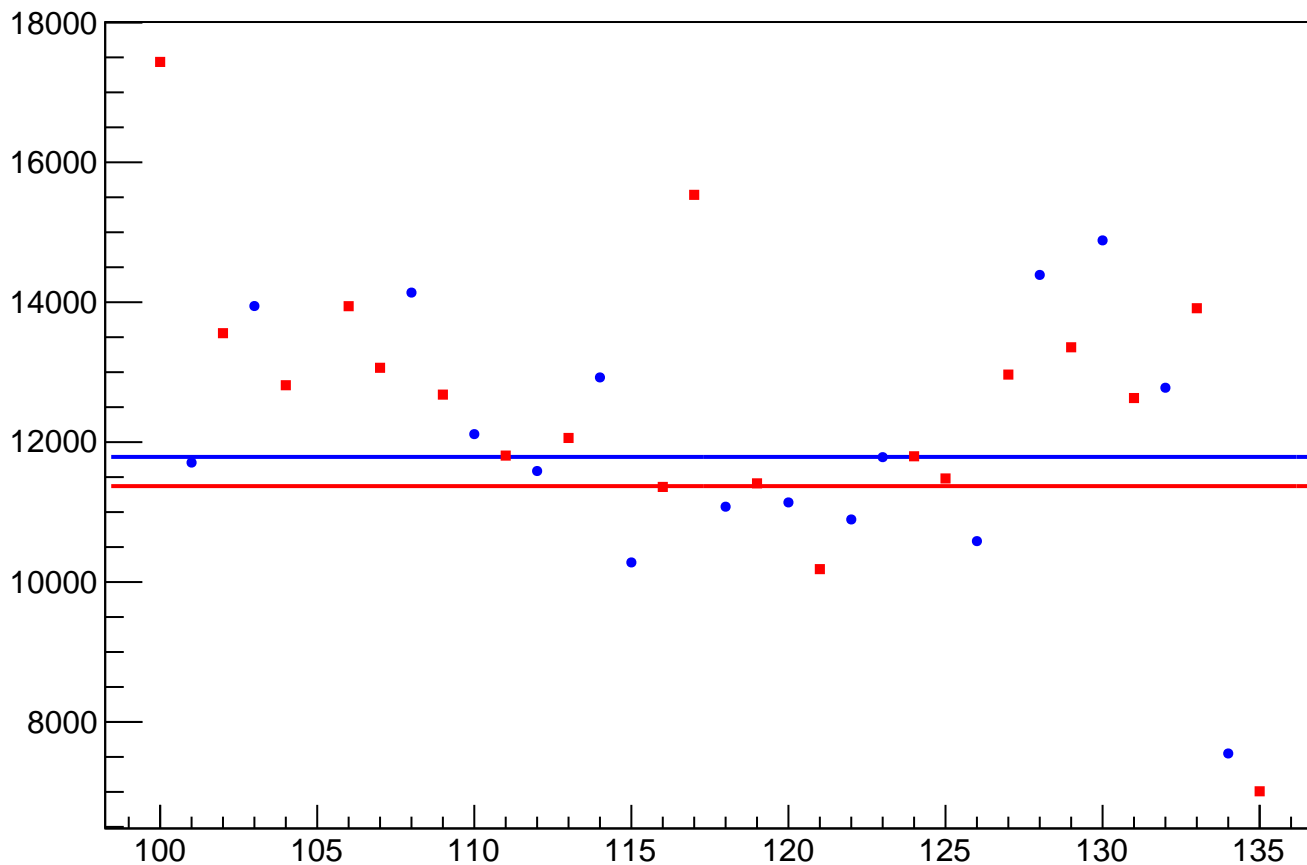
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.523+/-4.981  $\chi^2$ /NDF: 18.4/15

-4.093+/-3.300  $\chi^2$ /NDF: 34.4/34

-7.704+/-4.405  $\chi^2$ /NDF: 14.5/18

# diff\_bpm16X\_rms vs Slug, Sign Corrected



Right In: 11788.771+/-3.522  $\chi^2$ /NDF: 267744.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 11371.276+/-3.115  $\chi^2$ /NDF: 553454.9/18

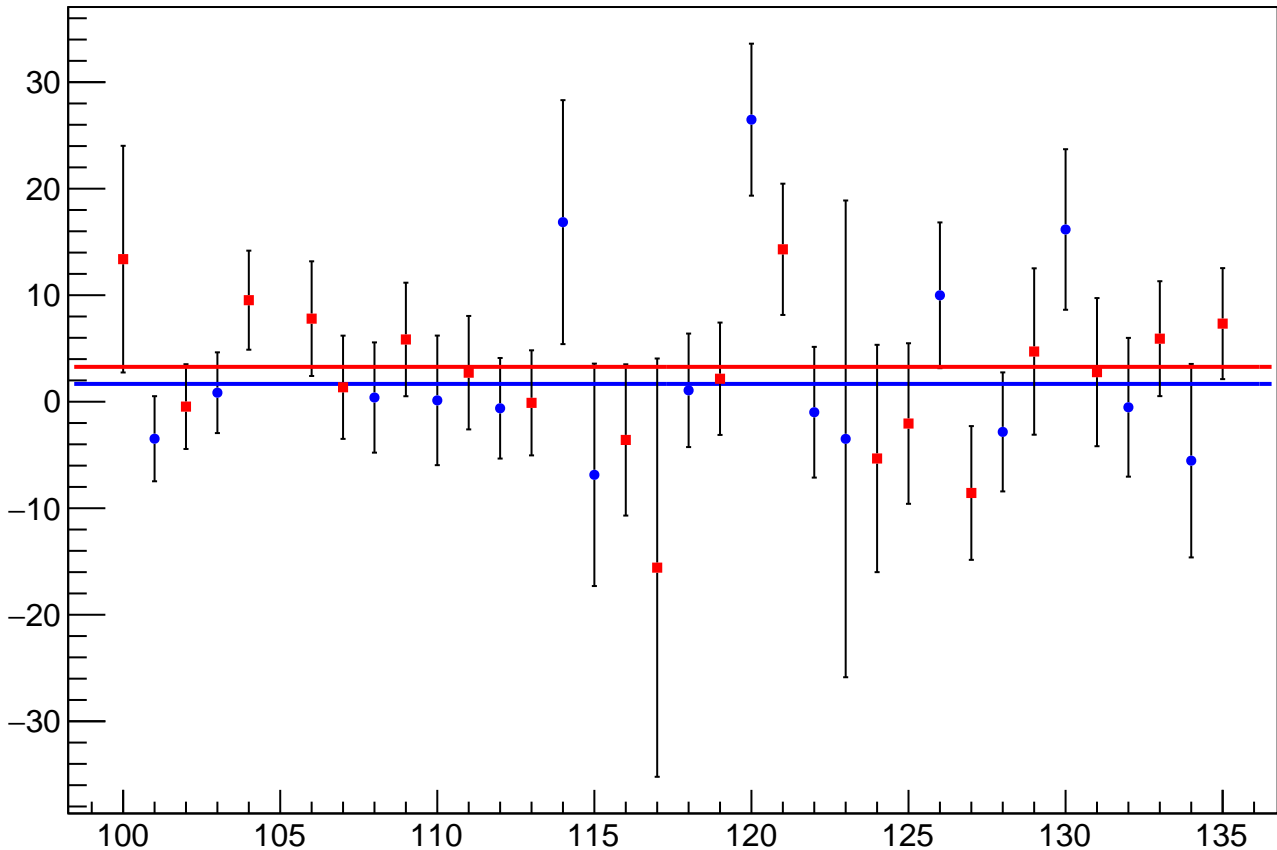
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

11788.771+/-3.522  $\chi^2$ /NDF: 267744.1/15

11554.525+/-2.333  $\chi^2$ /NDF: 829083.5/34

11371.276+/-3.115  $\chi^2$ /NDF: 553454.9/18

# diff\_bpm16Y\_mean vs Slug, Sign Corrected



Right In: 1.672 $\pm$ 1.493  $\chi^2$ /NDF: 23.4/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3.272 $\pm$ 1.346  $\chi^2$ /NDF: 15.9/18

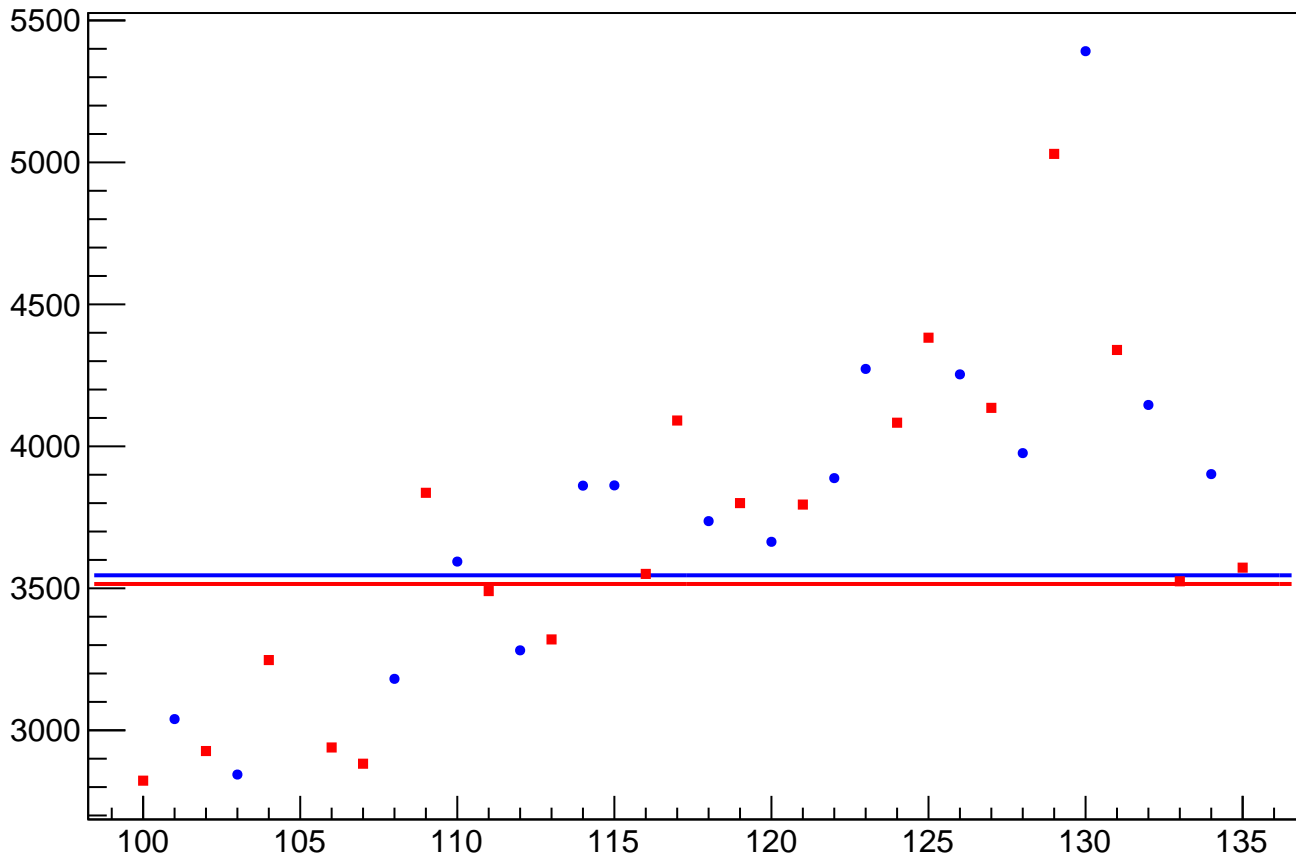
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

1.672 $\pm$ 1.493  $\chi^2$ /NDF: 23.4/15

2.555 $\pm$ 1.000  $\chi^2$ /NDF: 39.9/34

3.272 $\pm$ 1.346  $\chi^2$ /NDF: 15.9/18

# diff\_bpm16Y\_rms vs Slug, Sign Corrected



Right In:  $3545.840 \pm 1.056$   $\chi^2/\text{NDF}: 305065.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $3515.279 \pm 0.952$   $\chi^2/\text{NDF}: 293243.5/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

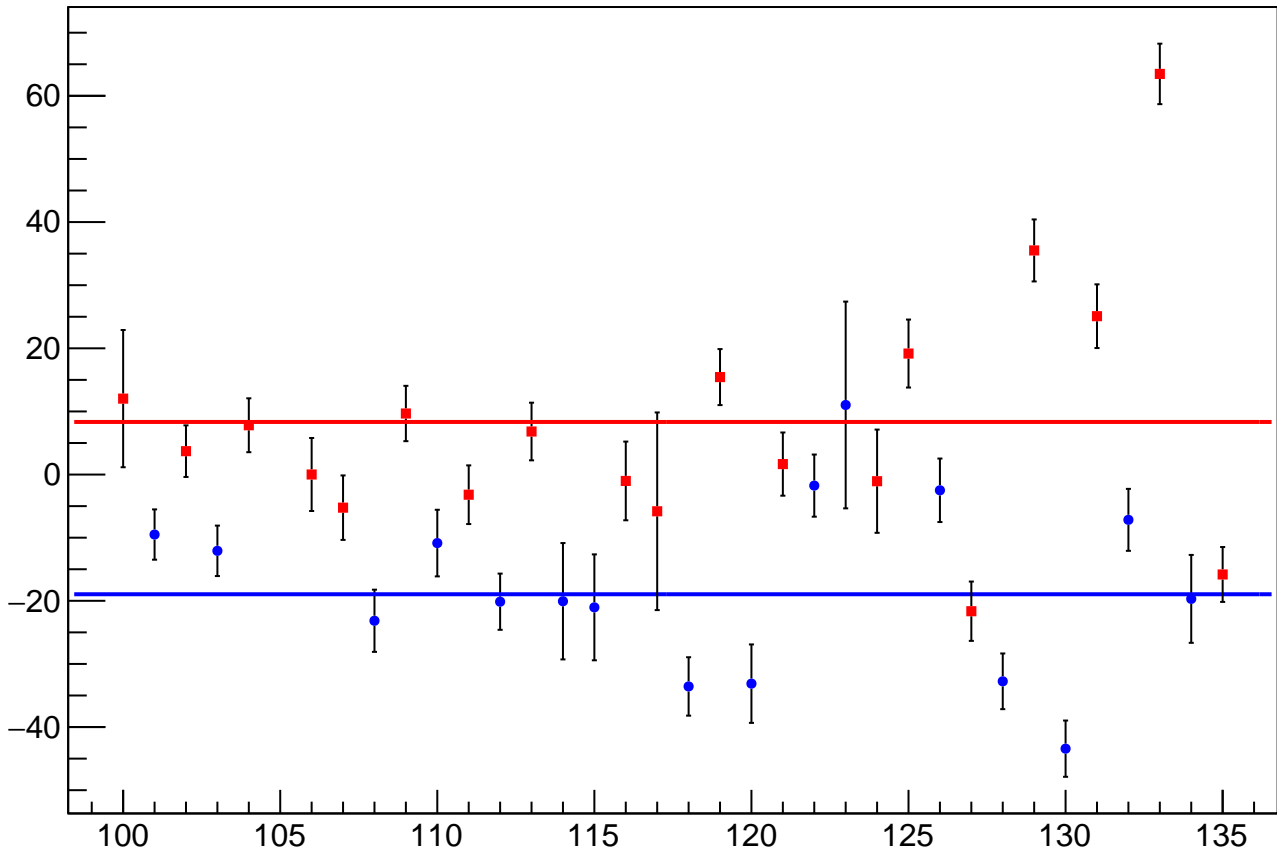
$3545.840 \pm 1.056$   $\chi^2/\text{NDF}: 305065.2/15$

$3528.982 \pm 0.707$   $\chi^2/\text{NDF}: 598770.8/34$

$3515.279 \pm 0.952$   $\chi^2/\text{NDF}: 293243.5/18$



# diff\_bpm0l01X\_mean vs Slug, Sign Corrected



Right In:  $-18.960 \pm 1.291$   $\chi^2/\text{NDF}: 99.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $8.334 \pm 1.170$   $\chi^2/\text{NDF}: 275.4/18$

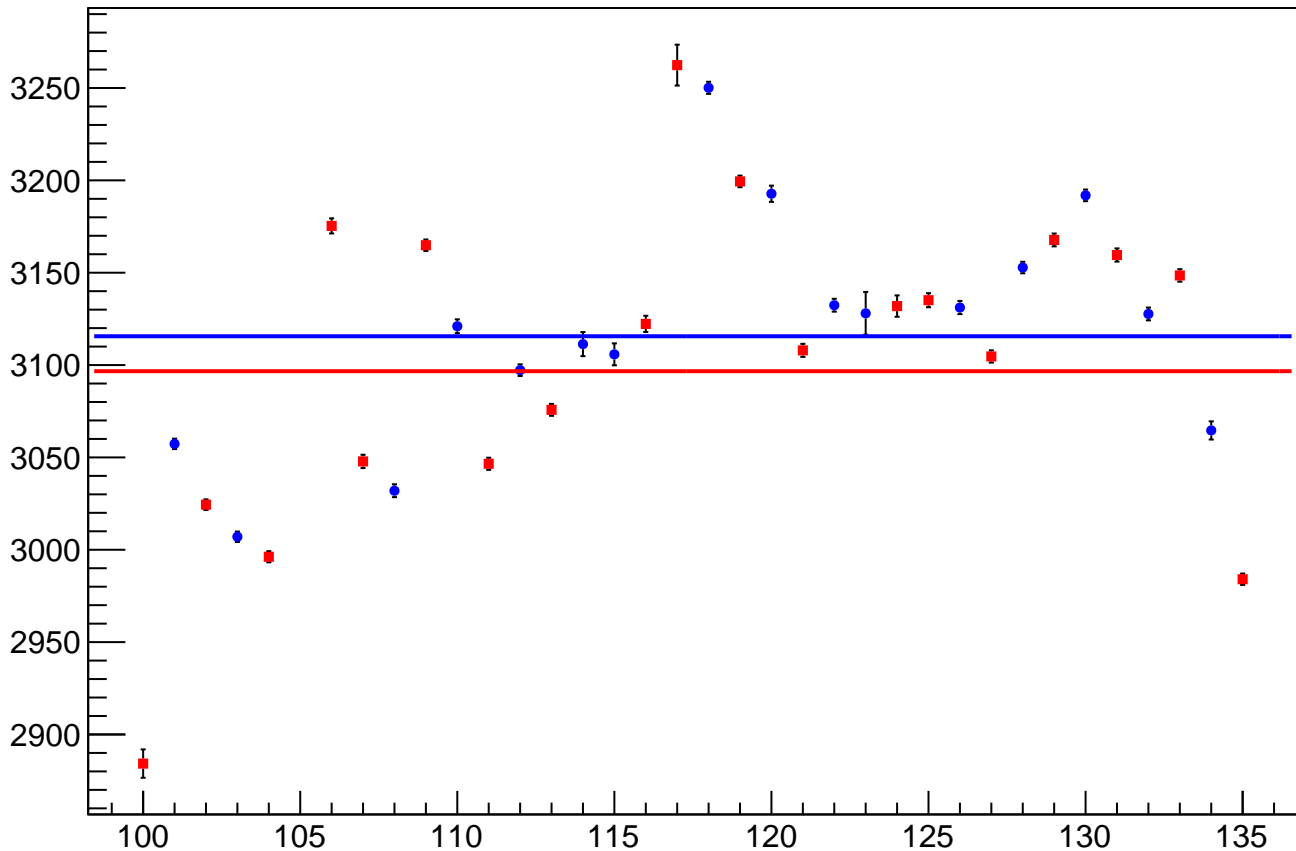
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-18.960 \pm 1.291$   $\chi^2/\text{NDF}: 99.0/15$

$-3.979 \pm 0.867$   $\chi^2/\text{NDF}: 619.8/34$

$8.334 \pm 1.170$   $\chi^2/\text{NDF}: 275.4/18$

# diff\_bpm0l01X\_rms vs Slug, Sign Corrected



Right In: 3115.598 $\pm$ 0.913  $\chi^2$ /NDF: 5408.6/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3096.678 $\pm$ 0.827  $\chi^2$ /NDF: 7600.4/18

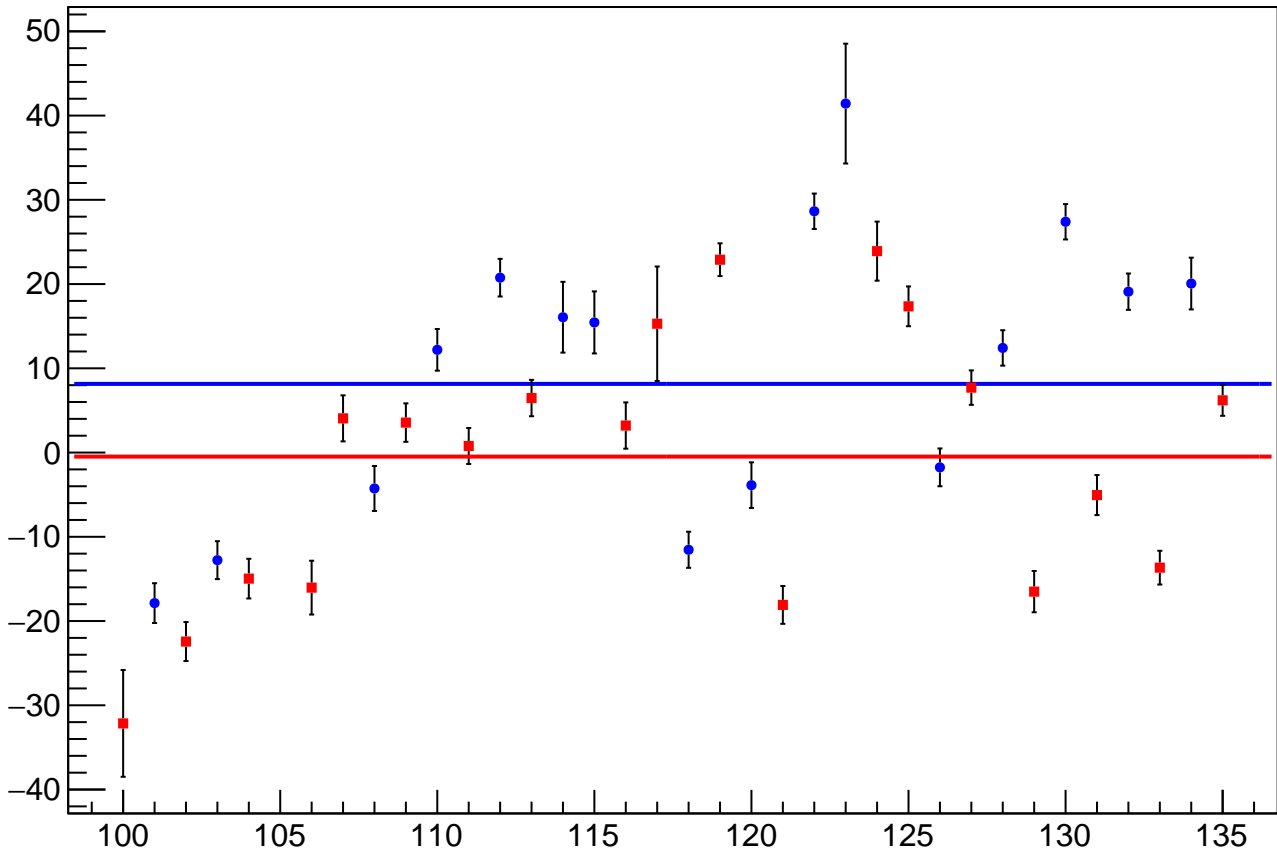
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3115.598 $\pm$ 0.913  $\chi^2$ /NDF: 5408.6/15

3105.213 $\pm$ 0.613  $\chi^2$ /NDF: 13244.8/34

3096.678 $\pm$ 0.827  $\chi^2$ /NDF: 7600.4/18

# diff\_bpm0l01Y\_mean vs Slug, Sign Corrected



Right In: 8.150+/-0.622  $\chi^2/\text{NDF}$ : 641.4/15

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

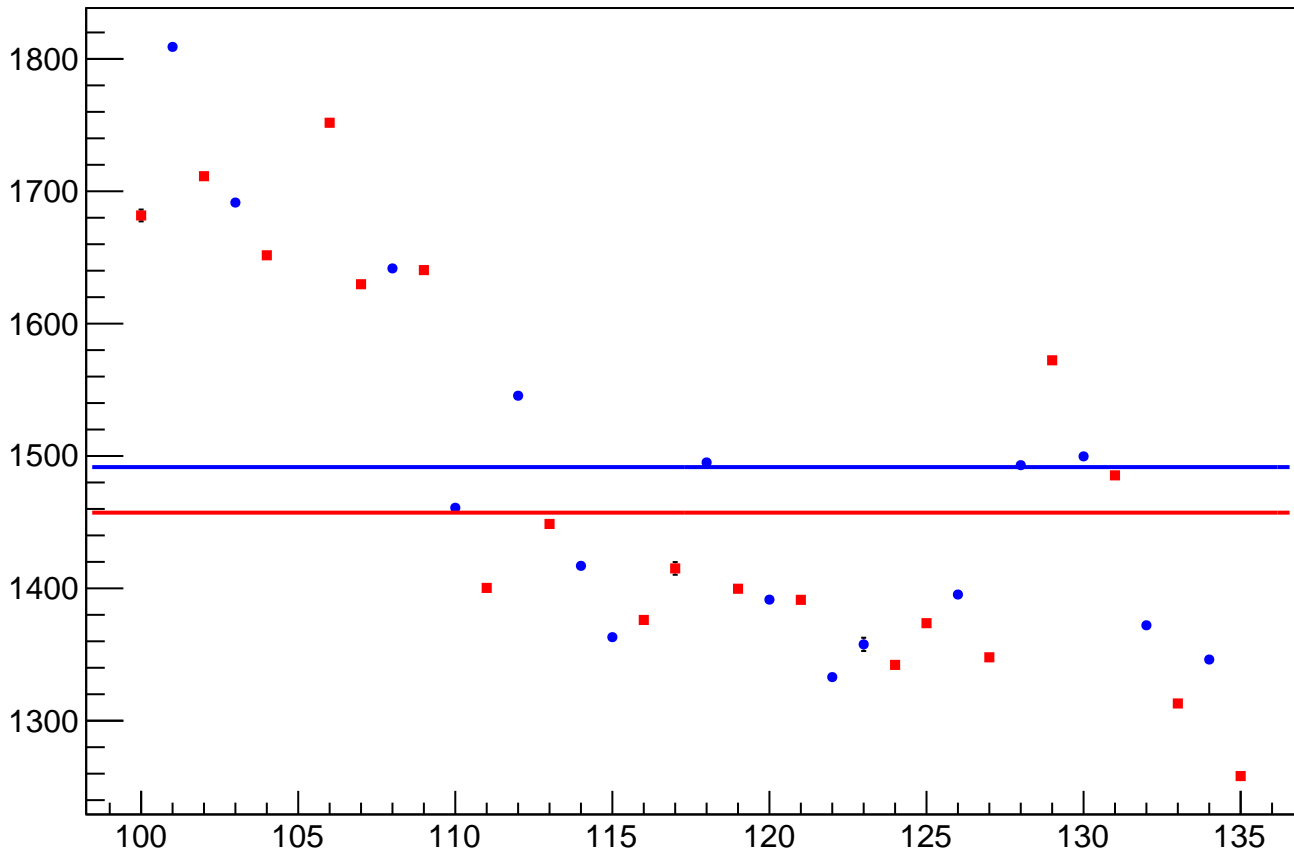
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

8.150+/-0.622  $\chi^2/\text{NDF}$ : 641.4/15

3.342+/-0.414  $\chi^2/\text{NDF}$ : 1379.3/34

-0.479+/-0.554  $\chi^2/\text{NDF}$ : 630.6/18

# diff\_bpm0l01Y\_rms vs Slug, Sign Corrected



Right In: 1491.613+/-0.440  $\chi^2$ /NDF: 91984.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1457.189+/-0.392  $\chi^2$ /NDF: 133739.8/18

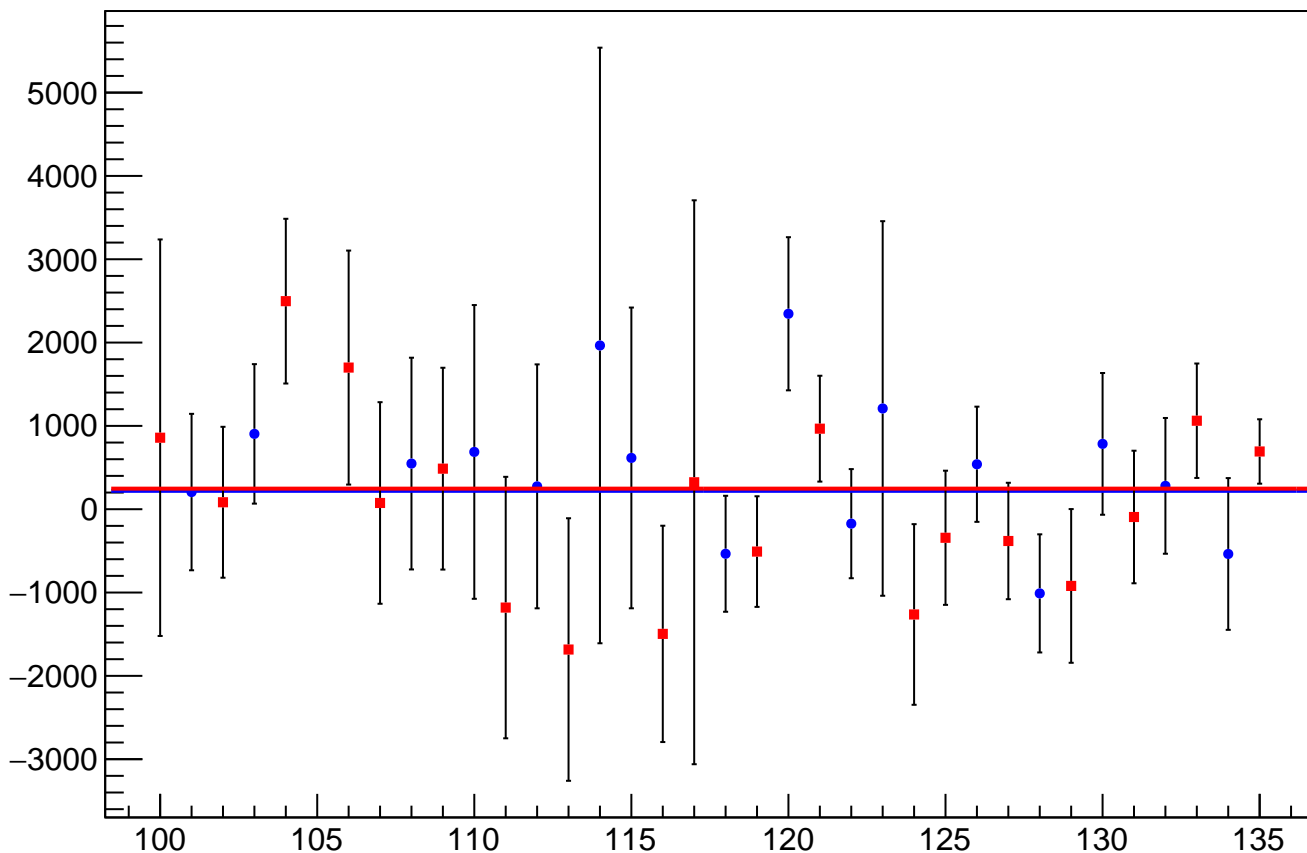
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1491.613+/-0.440  $\chi^2$ /NDF: 91984.9/15

1472.430+/-0.293  $\chi^2$ /NDF: 229139.1/34

1457.189+/-0.392  $\chi^2$ /NDF: 133739.8/18

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 220.655+/-233.690  $\chi^2$ /NDF: 12.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 246.900+/-194.104  $\chi^2$ /NDF: 20.9/18

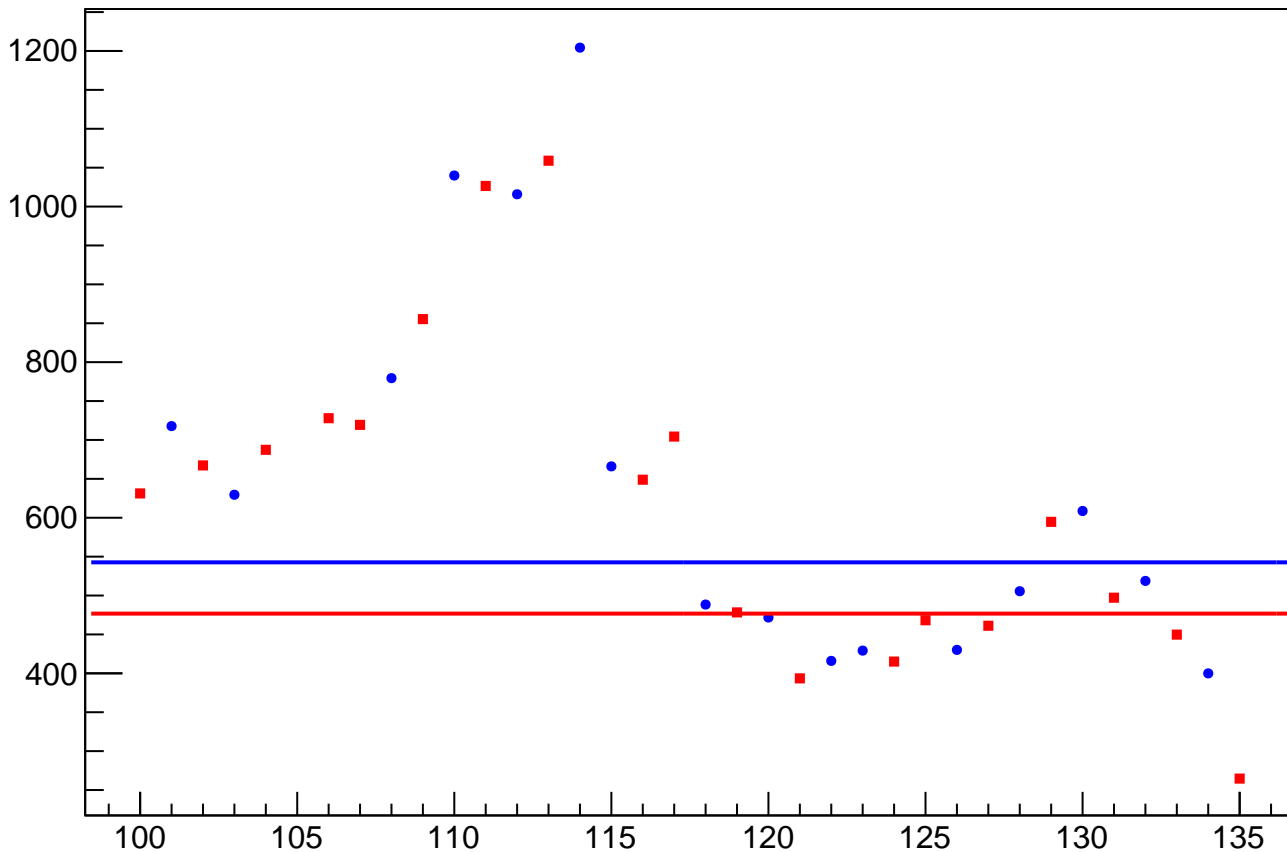
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

220.655+/-233.690  $\chi^2$ /NDF: 12.5/15

236.186+/-149.315  $\chi^2$ /NDF: 33.5/34

246.900+/-194.104  $\chi^2$ /NDF: 20.9/18

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 542.659+/-0.165  $\chi^2$ /NDF: 831946.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 476.761+/-0.137  $\chi^2$ /NDF: 1771721.5/18

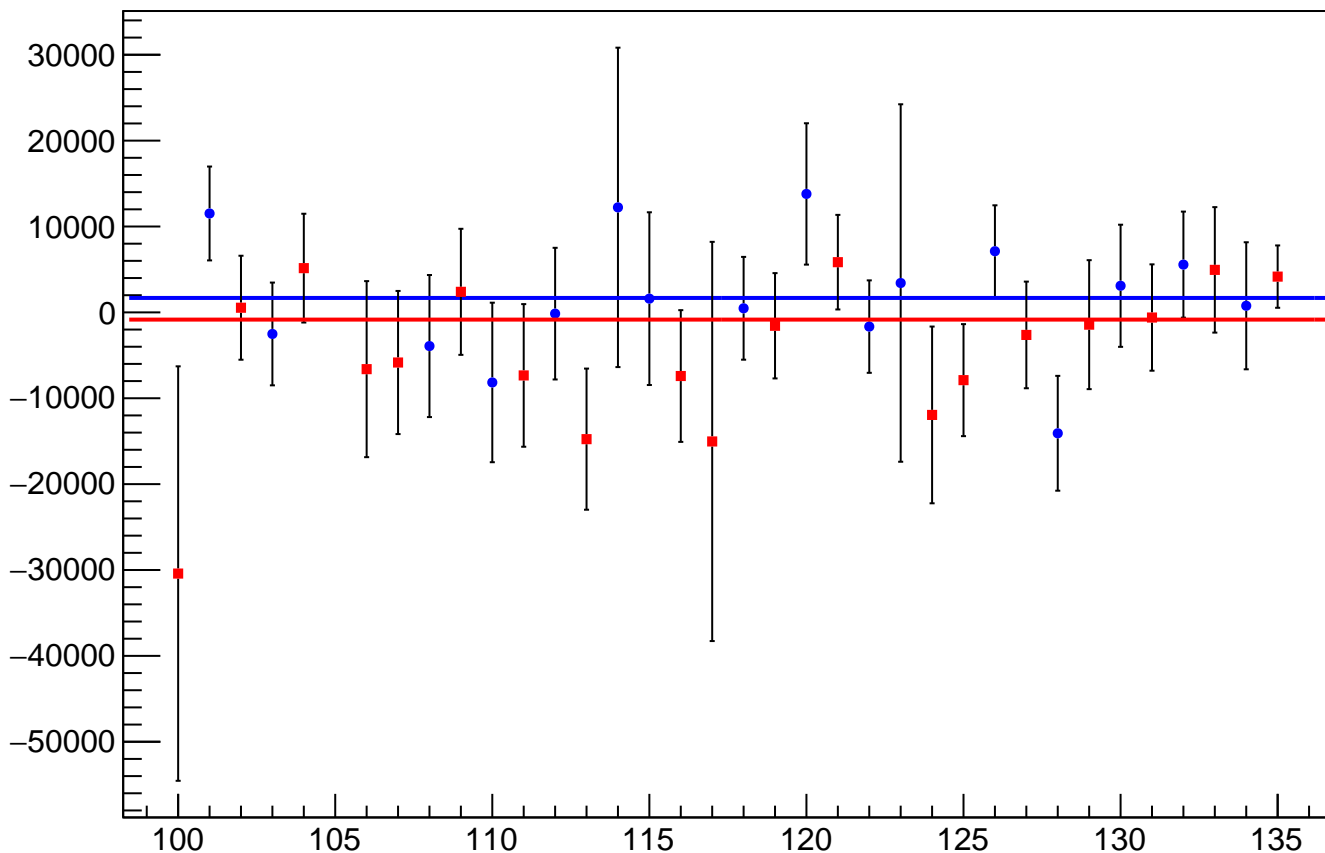
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

542.659+/-0.165  $\chi^2$ /NDF: 831946.0/15

503.664+/-0.106  $\chi^2$ /NDF: 2697777.9/34

476.761+/-0.137  $\chi^2$ /NDF: 1771721.5/18

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 1681.305+/-1771.767  $\chi^2$ /NDF: 15.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -840.871+/-1578.277  $\chi^2$ /NDF: 14.3/18

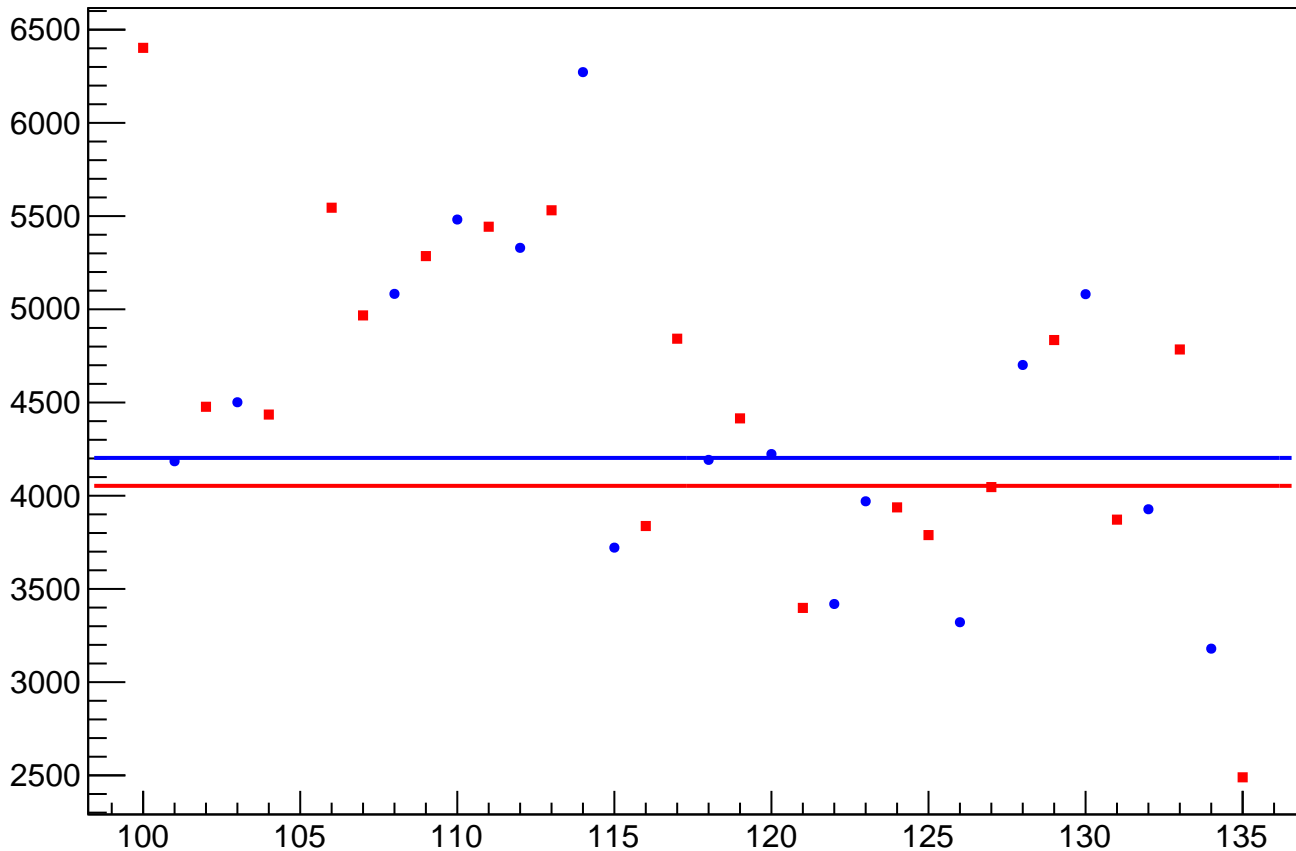
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1681.305+/-1771.767  $\chi^2$ /NDF: 15.3/15

275.026+/-1178.504  $\chi^2$ /NDF: 30.8/34

-840.871+/-1578.277  $\chi^2$ /NDF: 14.3/18

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 4202.808+/-1.253  $\chi^2/\text{NDF}$ : 319012.3/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

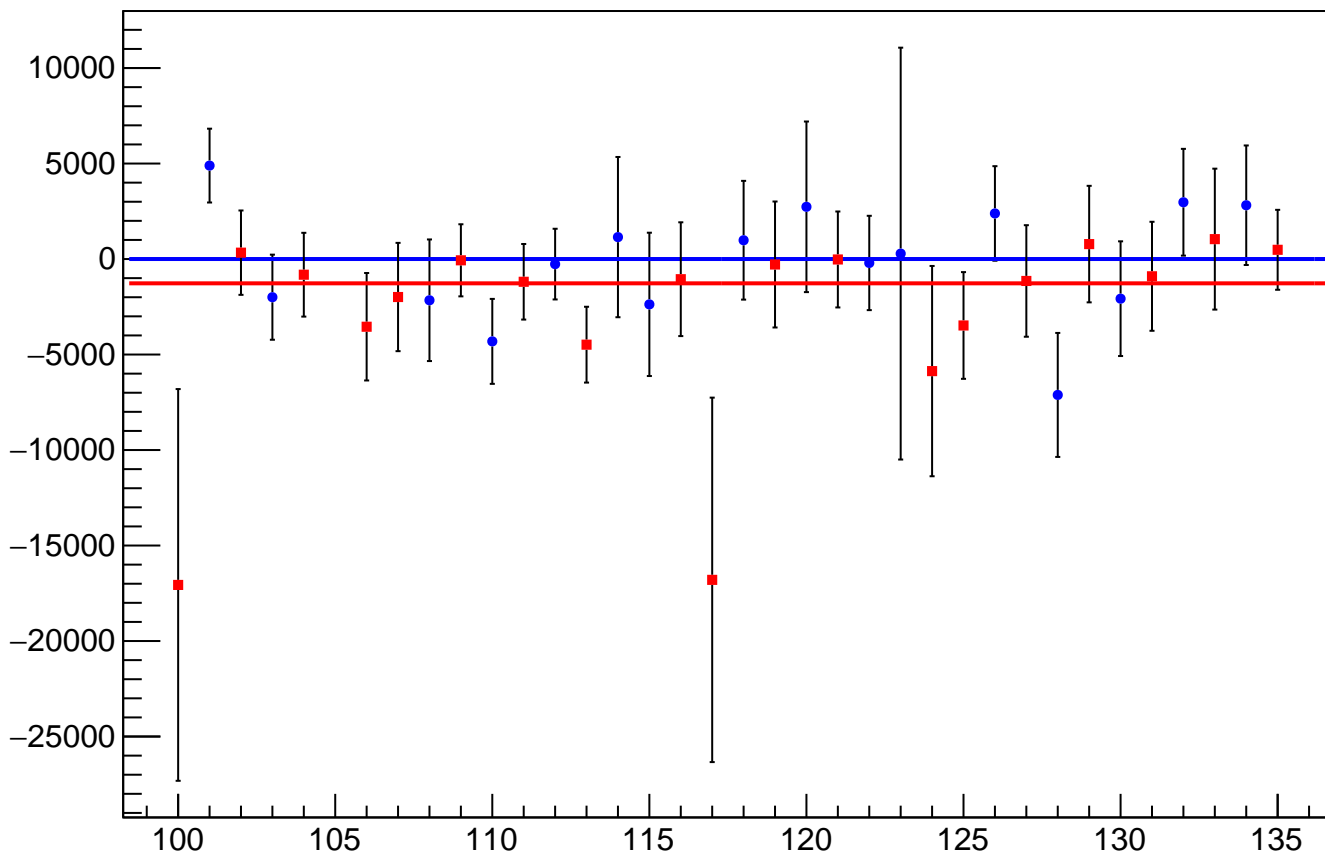
4202.808+/-1.253  $\chi^2/\text{NDF}$ : 319012.3/15

4119.265+/-0.833  $\chi^2/\text{NDF}$ : 1063757.6/34

4052.973+/-1.116  $\chi^2/\text{NDF}$ : 736770.1/18



# asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 1.220+/-687.563  $\chi^2$ /NDF: 20.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1271.640+/-614.552  $\chi^2$ /NDF: 12.6/18

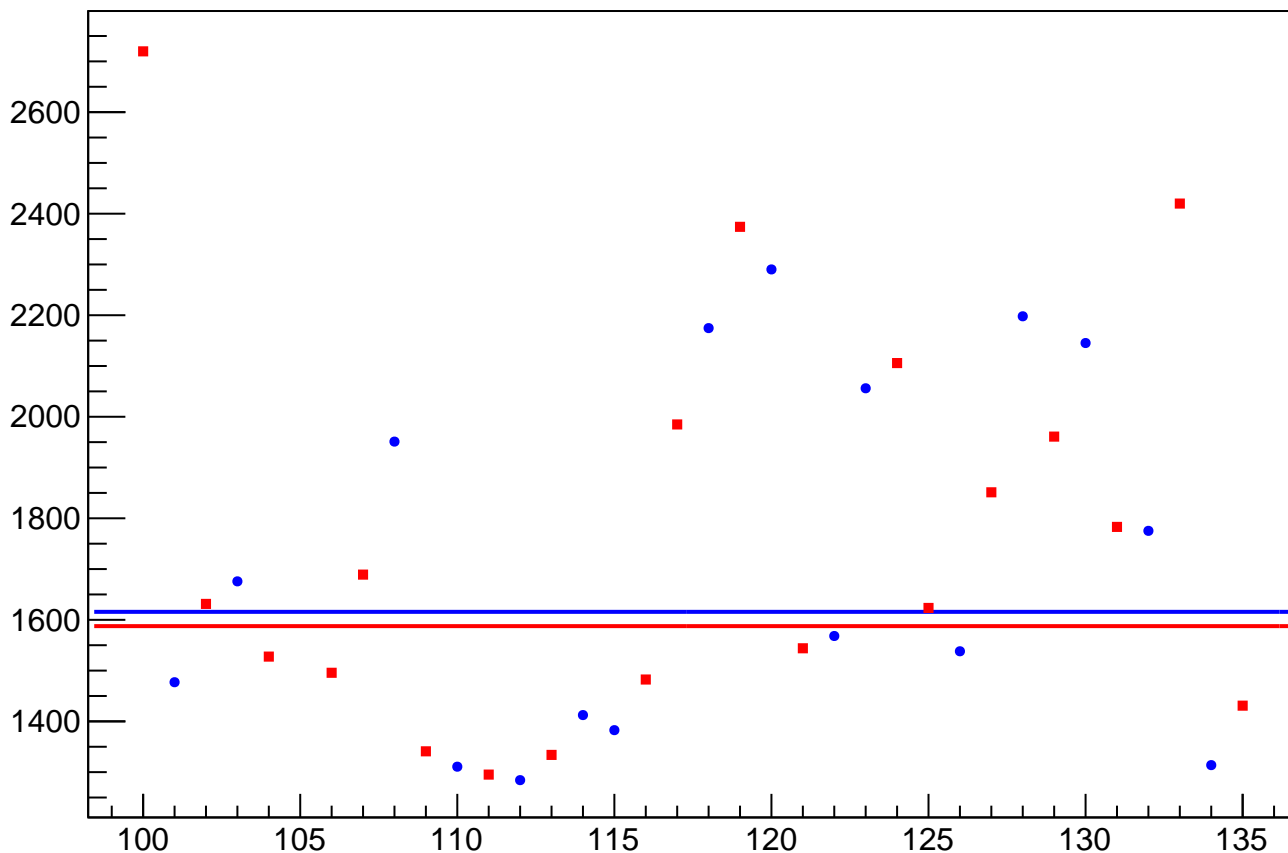
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1.220+/-687.563  $\chi^2$ /NDF: 20.6/15

-706.357+/-458.200  $\chi^2$ /NDF: 35.0/34

-1271.640+/-614.552  $\chi^2$ /NDF: 12.6/18

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 1615.748 $\pm$ 0.486  $\chi^2$ /NDF: 416071.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1587.599 $\pm$ 0.435  $\chi^2$ /NDF: 448859.3/18

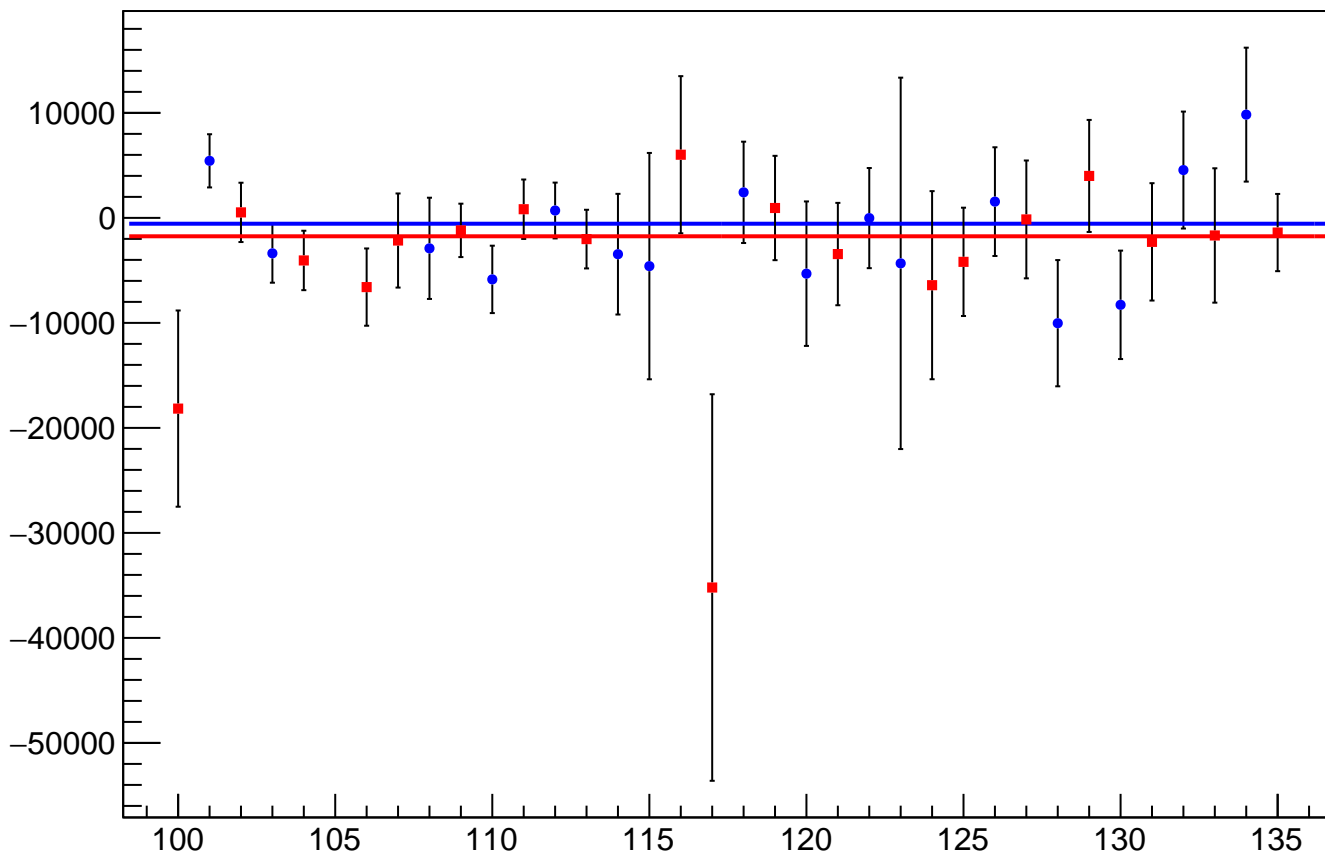
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

1615.748 $\pm$ 0.486  $\chi^2$ /NDF: 416071.3/15

1600.100 $\pm$ 0.324  $\chi^2$ /NDF: 866794.2/34

1587.599 $\pm$ 0.435  $\chi^2$ /NDF: 448859.3/18

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In:  $-555.963 \pm 1069.219$   $\chi^2/\text{NDF}: 19.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-1752.748 \pm 934.949$   $\chi^2/\text{NDF}: 13.6/18$

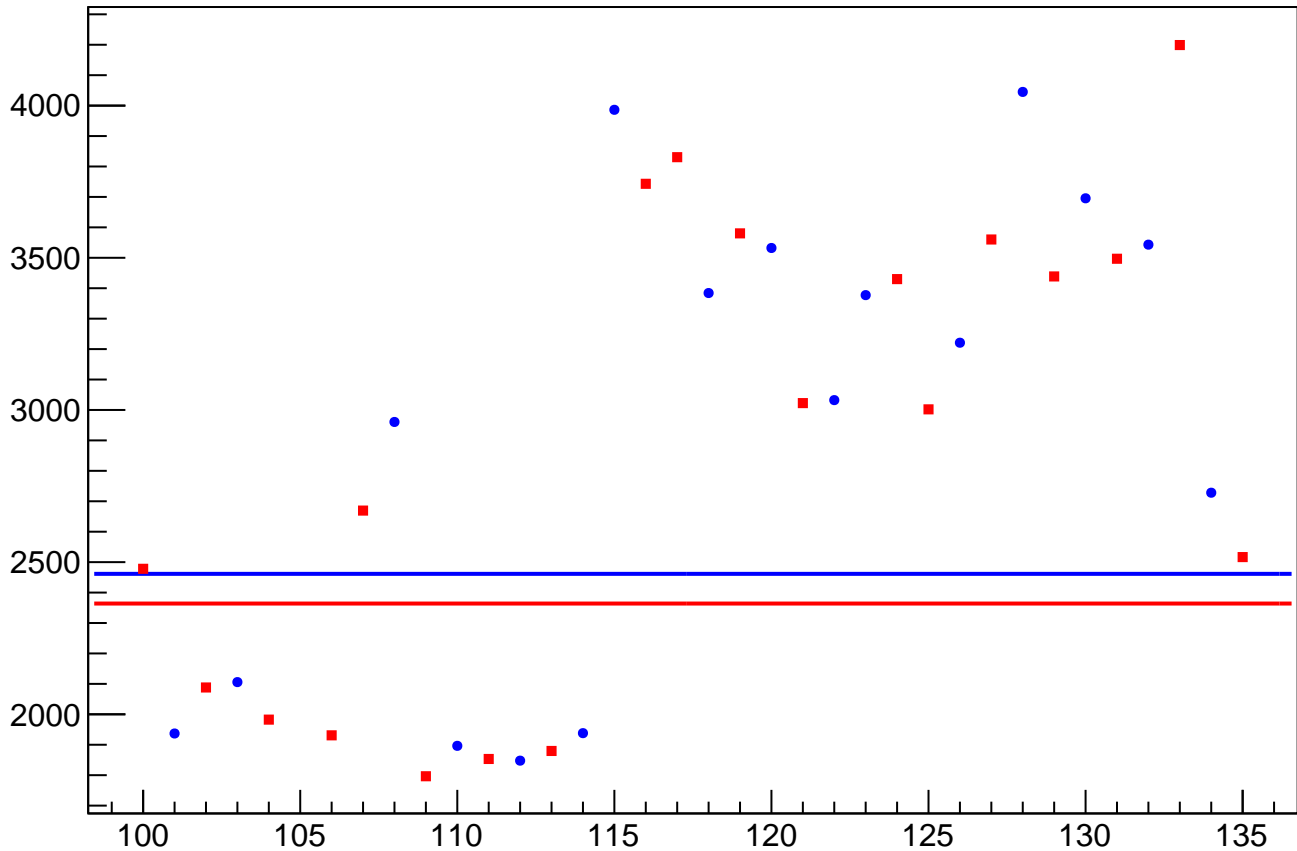
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-555.963 \pm 1069.219$   $\chi^2/\text{NDF}: 19.5/15$

$-1234.177 \pm 703.822$   $\chi^2/\text{NDF}: 33.8/34$

$-1752.748 \pm 934.949$   $\chi^2/\text{NDF}: 13.6/18$

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 2461.522+/-0.756  $\chi^2/\text{NDF}$ : 895513.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2363.944+/-0.661  $\chi^2/\text{NDF}$ : 1035878.0/18

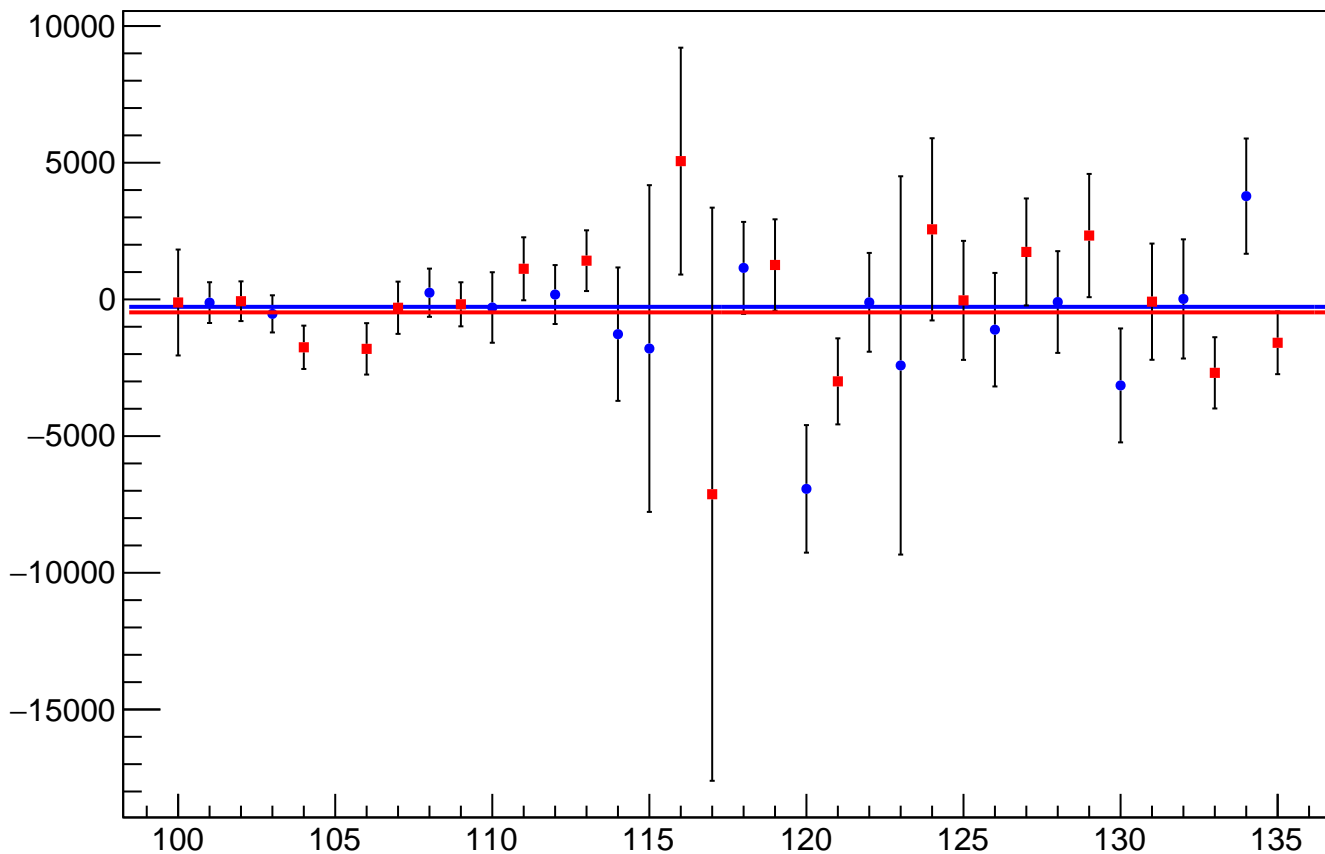
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2461.522+/-0.756  $\chi^2/\text{NDF}$ : 895513.0/15

2406.225+/-0.498  $\chi^2/\text{NDF}$ : 1940830.5/34

2363.944+/-0.661  $\chi^2/\text{NDF}$ : 1035878.0/18

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In: -271.757+/-334.133  $\chi^2$ /NDF: 15.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -474.245+/-285.855  $\chi^2$ /NDF: 23.3/18

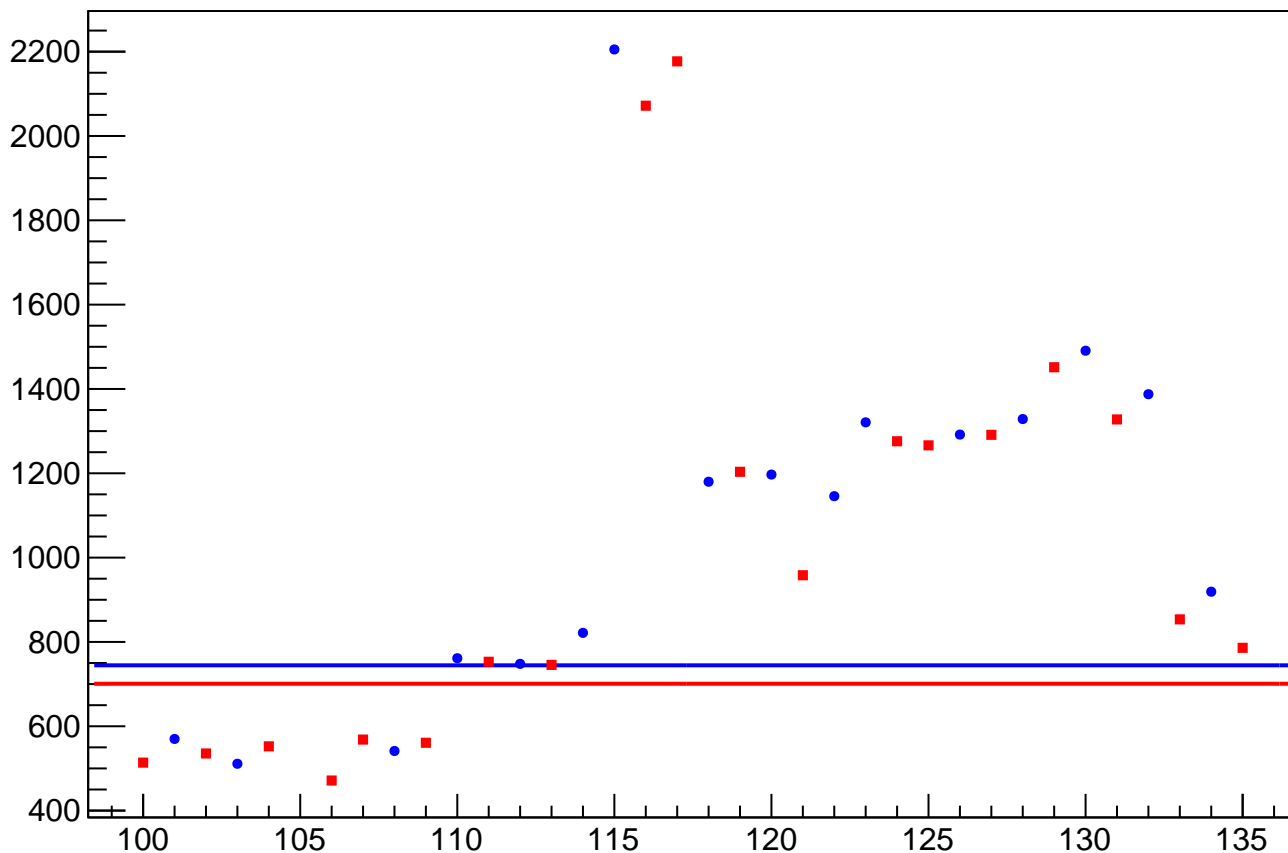
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-271.757+/-334.133  $\chi^2$ /NDF: 15.7/15

-388.674+/-217.212  $\chi^2$ /NDF: 39.2/34

-474.245+/-285.855  $\chi^2$ /NDF: 23.3/18

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 744.552 $\pm$ 0.236  $\chi^2$ /NDF: 1675386.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 700.803 $\pm$ 0.202  $\chi^2$ /NDF: 1720866.5/18

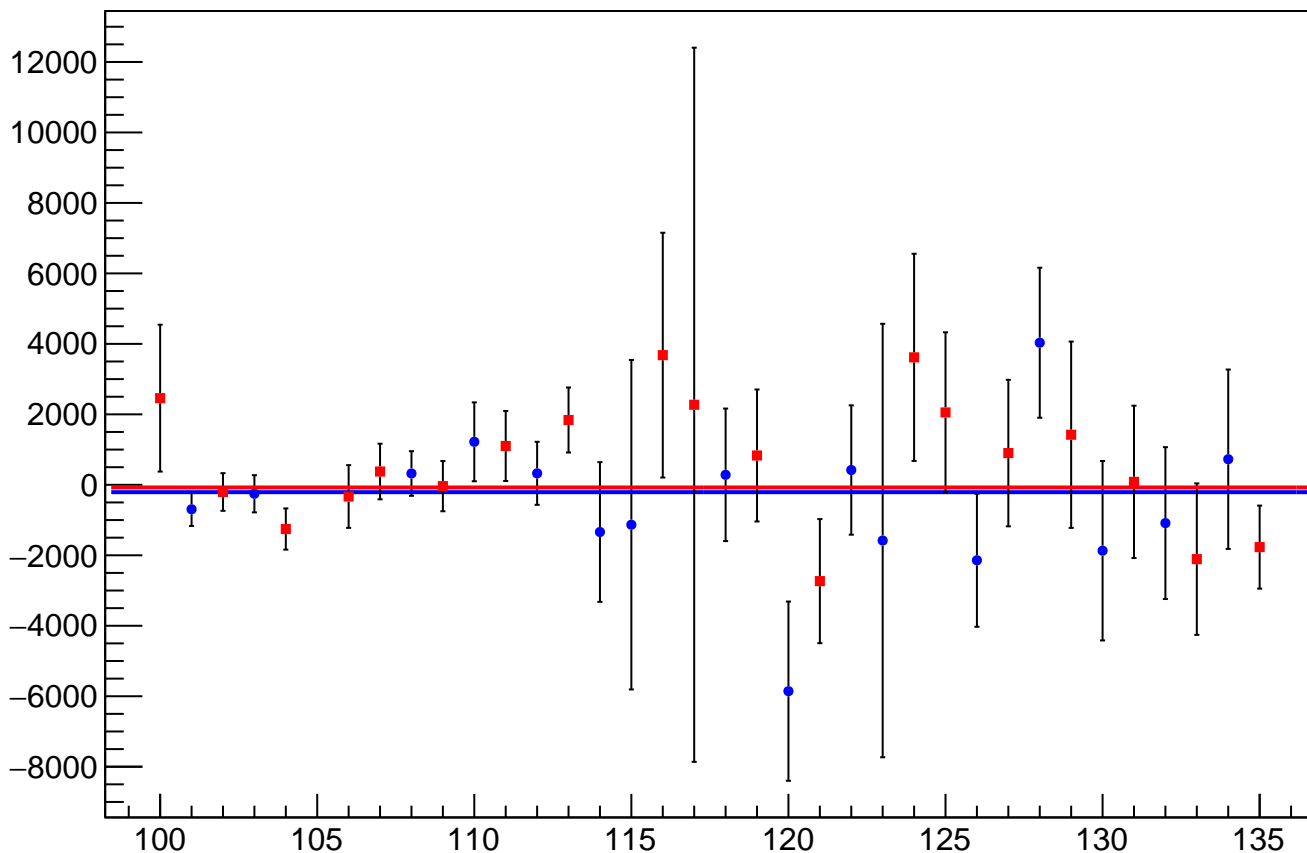
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

744.552 $\pm$ 0.236  $\chi^2$ /NDF: 1675386.7/15

719.291 $\pm$ 0.154  $\chi^2$ /NDF: 3416050.6/34

700.803 $\pm$ 0.202  $\chi^2$ /NDF: 1720866.5/18

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-208.787 \pm 261.160$   $\chi^2/\text{NDF}: 15.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-75.260 \pm 248.338$   $\chi^2/\text{NDF}: 21.4/18$

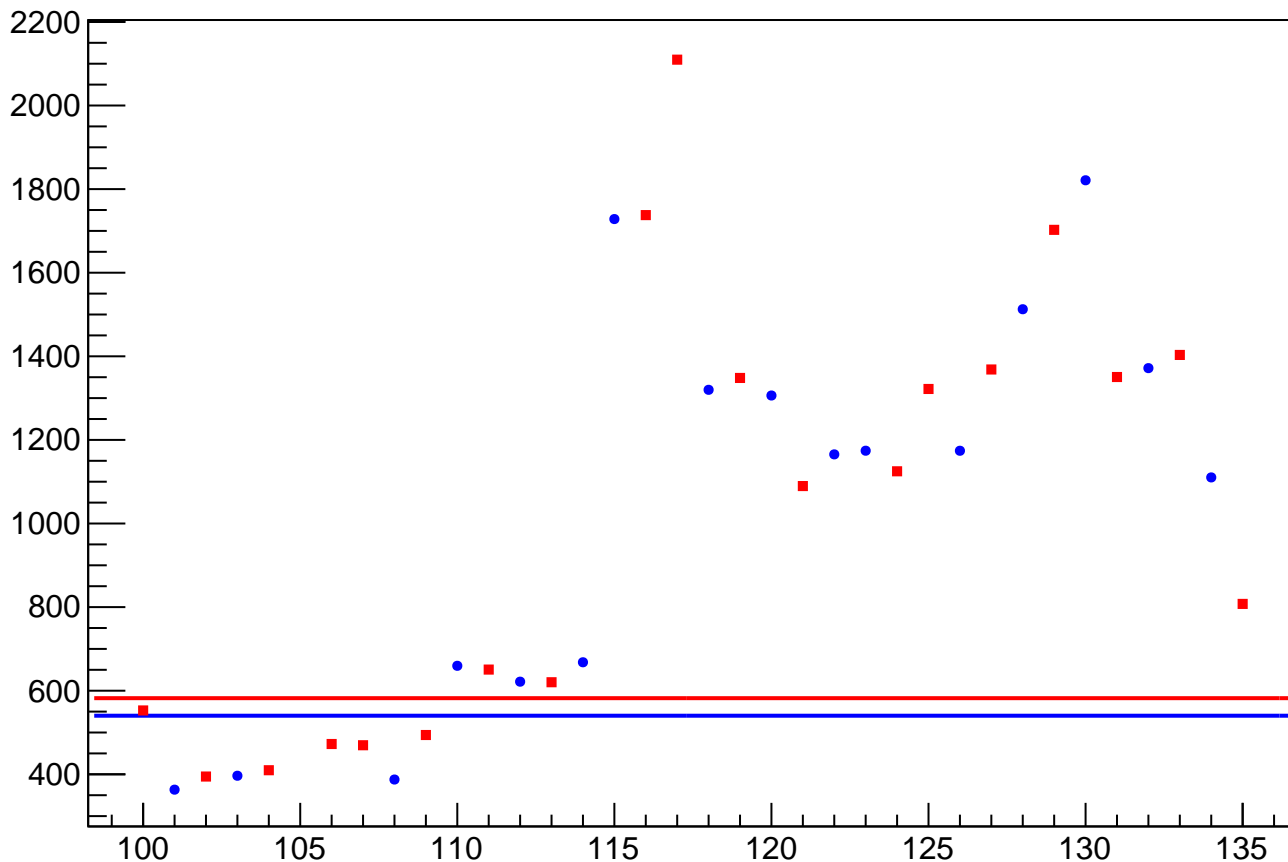
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-208.787 \pm 261.160$   $\chi^2/\text{NDF}: 15.0/15$

$-138.665 \pm 179.964$   $\chi^2/\text{NDF}: 36.6/34$

$-75.260 \pm 248.338$   $\chi^2/\text{NDF}: 21.4/18$

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 540.187+/-0.185  $\chi^2/\text{NDF}$ : 3044888.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

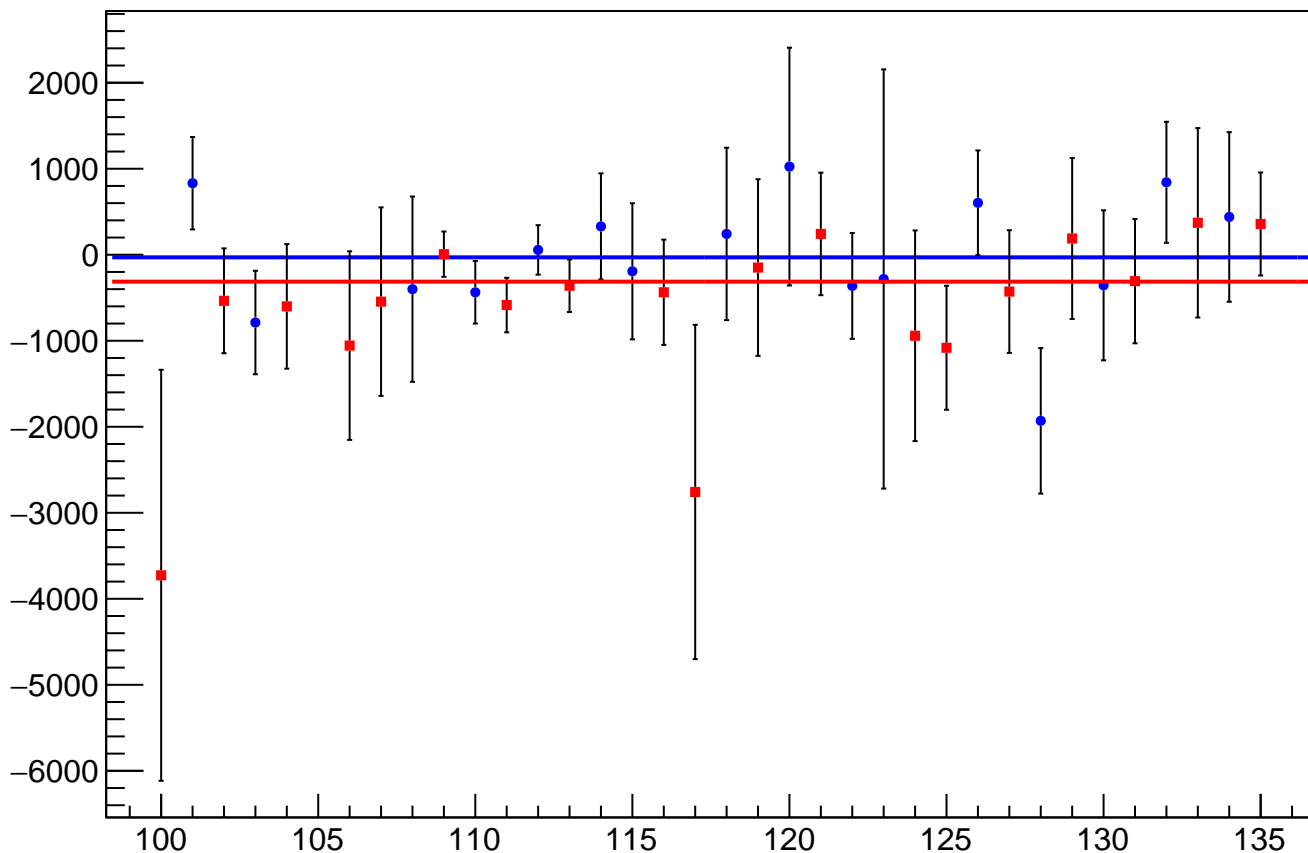
540.187+/-0.185  $\chi^2/\text{NDF}$ : 3044888.0/15

562.221+/-0.127  $\chi^2/\text{NDF}$ : 5917281.0/34

582.144+/-0.176  $\chi^2/\text{NDF}$ : 2845283.6/18



# asym\_sam7\_mean vs Slug, Sign Corrected



Right In:  $-30.093 \pm 151.216$   $\chi^2/\text{NDF}: 15.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-312.823 \pm 130.703$   $\chi^2/\text{NDF}: 10.7/18$

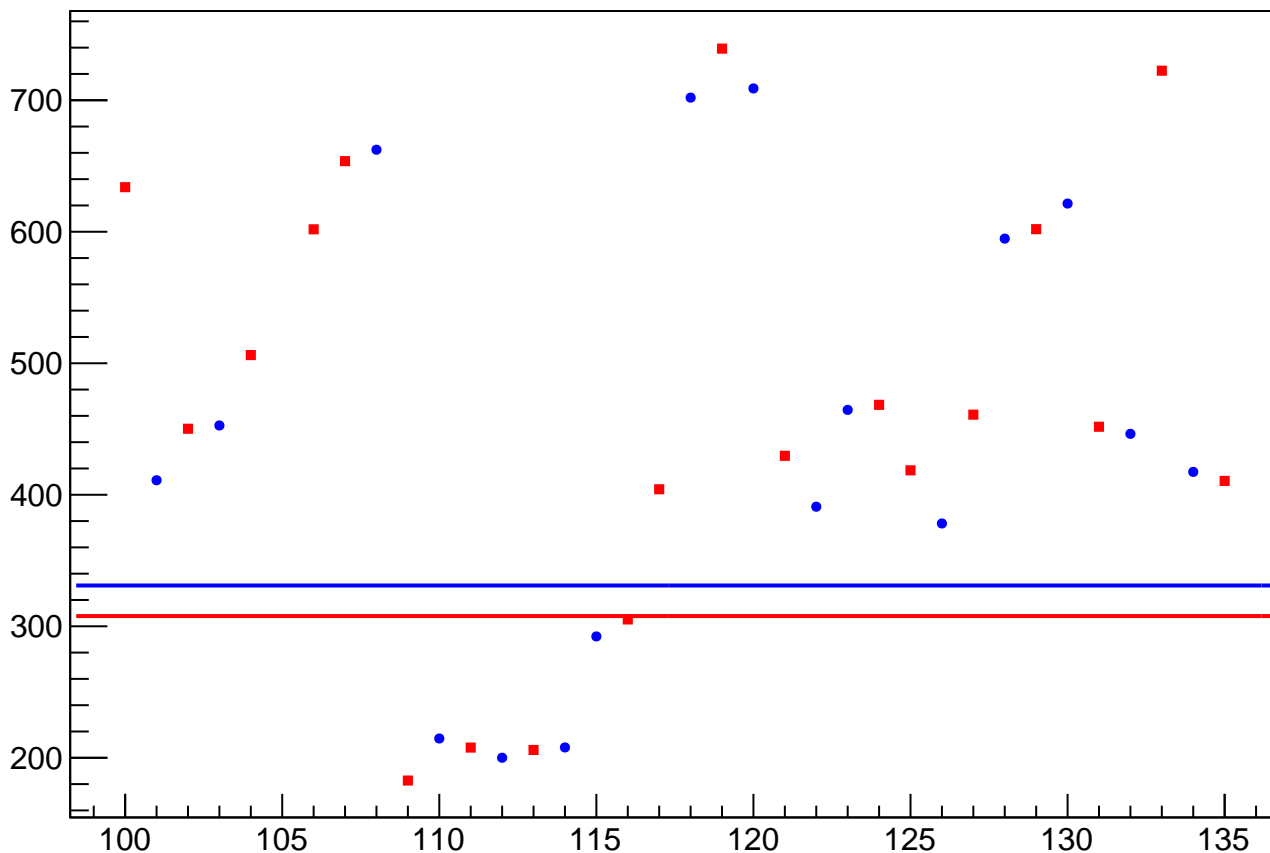
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-30.093 \pm 151.216$   $\chi^2/\text{NDF}: 15.0/15$

$-191.922 \pm 98.884$   $\chi^2/\text{NDF}: 27.7/34$

$-312.823 \pm 130.703$   $\chi^2/\text{NDF}: 10.7/18$

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 331.021+/-0.107  $\chi^2/\text{NDF}$ : 1964823.4/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 307.758+/-0.092  $\chi^2/\text{NDF}$ : 2720788.5/18

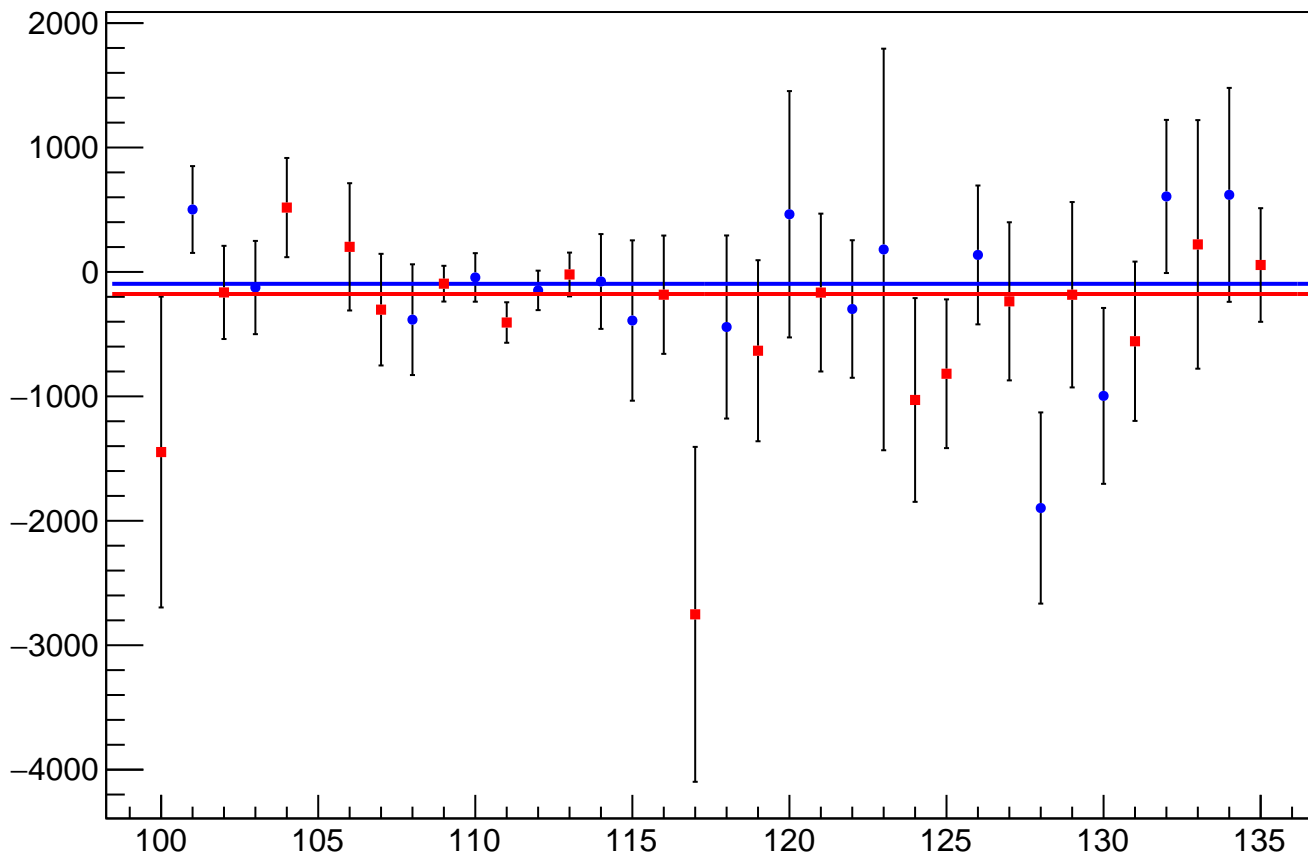
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

331.021+/-0.107  $\chi^2/\text{NDF}$ : 1964823.4/15

317.706+/-0.070  $\chi^2/\text{NDF}$ : 4712702.2/34

307.758+/-0.092  $\chi^2/\text{NDF}$ : 2720788.5/18

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-95.512 \pm 94.009$   $\chi^2/\text{NDF}$ : 13.7/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-177.263 \pm 77.257$   $\chi^2/\text{NDF}$ : 14.9/18

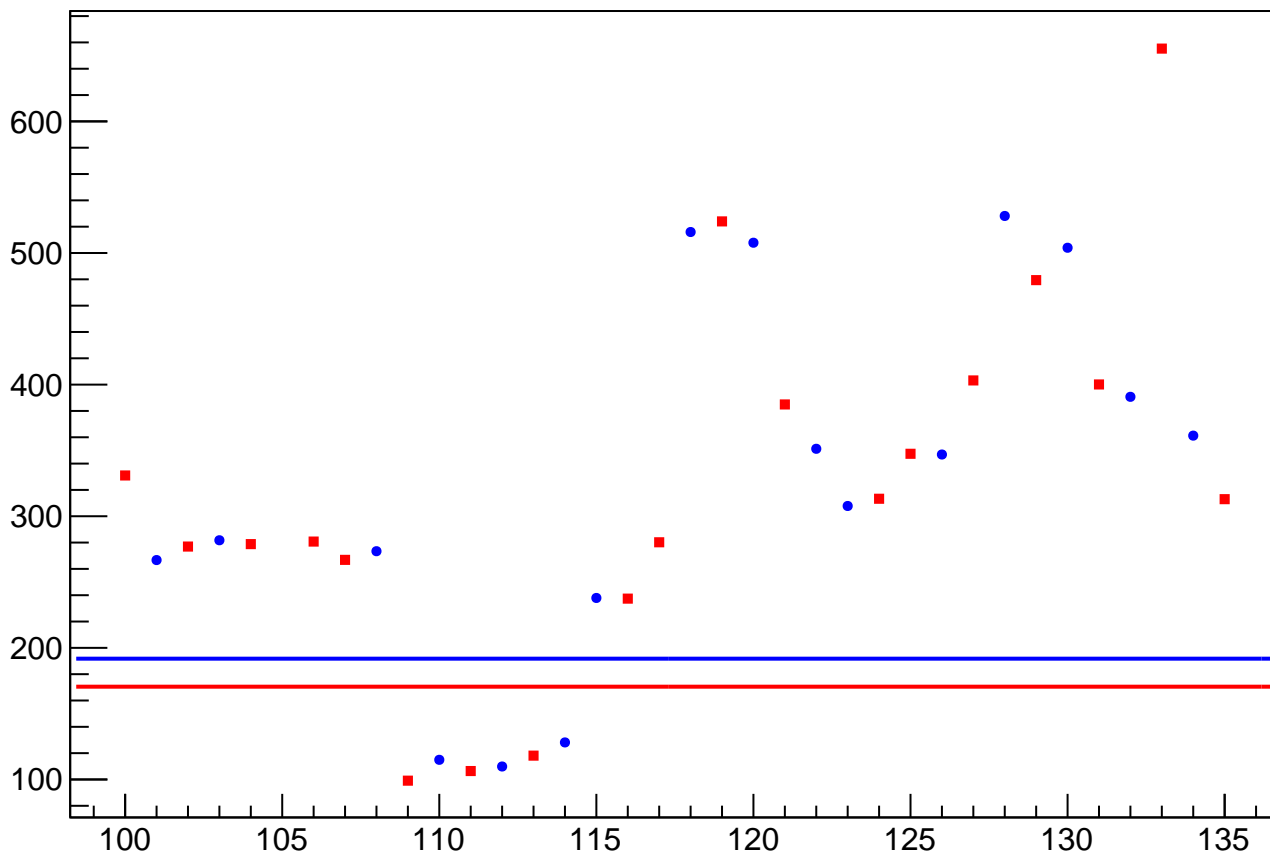
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-95.512 \pm 94.009$   $\chi^2/\text{NDF}$ : 13.7/15

$-144.307 \pm 59.688$   $\chi^2/\text{NDF}$ : 29.1/34

$-177.263 \pm 77.257$   $\chi^2/\text{NDF}$ : 14.9/18

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 191.781+/-0.066  $\chi^2/\text{NDF}$ : 3168787.7/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 170.501+/-0.055  $\chi^2/\text{NDF}$ : 4034203.9/18

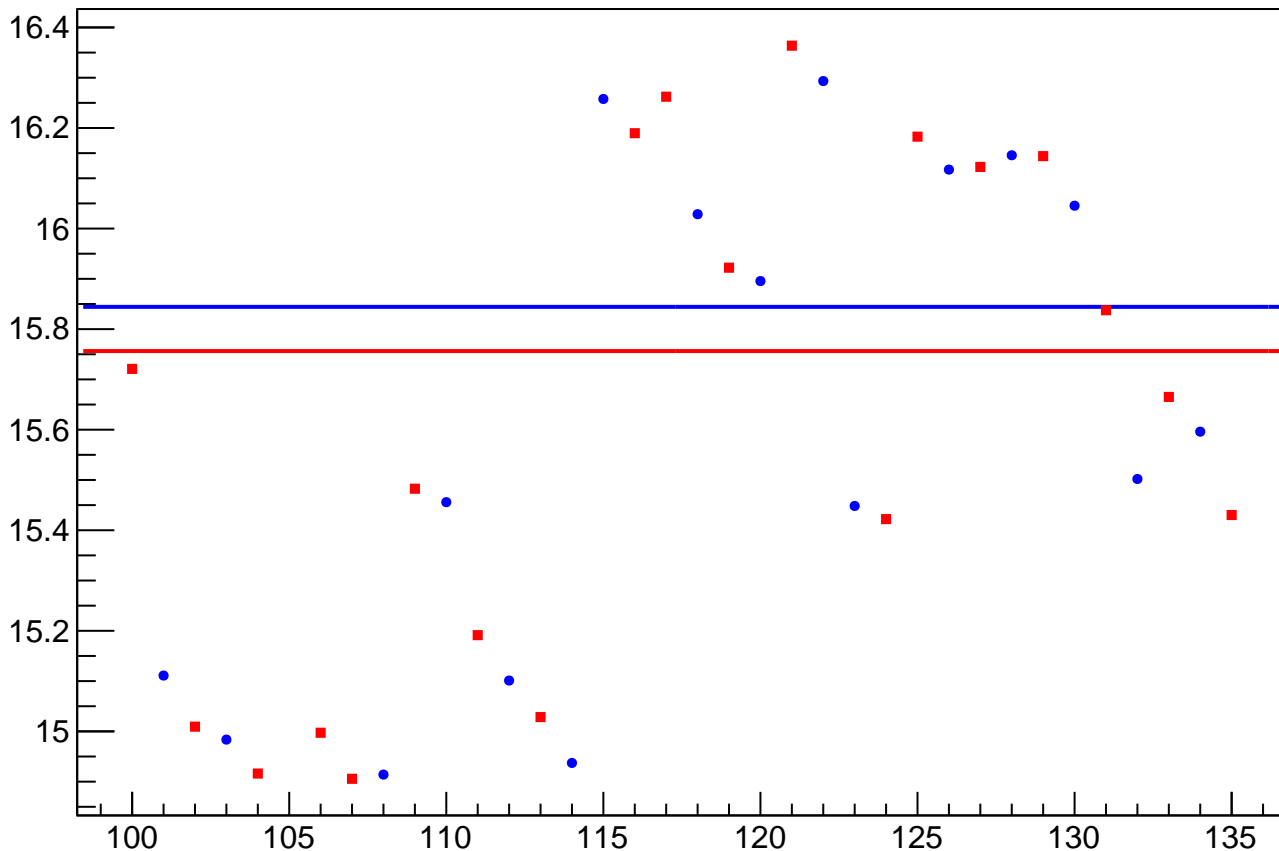
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

191.781+/-0.066  $\chi^2/\text{NDF}$ : 3168787.7/15

179.079+/-0.042  $\chi^2/\text{NDF}$ : 7264162.7/34

170.501+/-0.055  $\chi^2/\text{NDF}$ : 4034203.9/18

# yield\_sam1\_mean vs Slug, Sign Corrected



Right In: 15.844+/-0.000  $\chi^2$ /NDF: 3853649058.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 15.756+/-0.000  $\chi^2$ /NDF: 5049355849.6/18

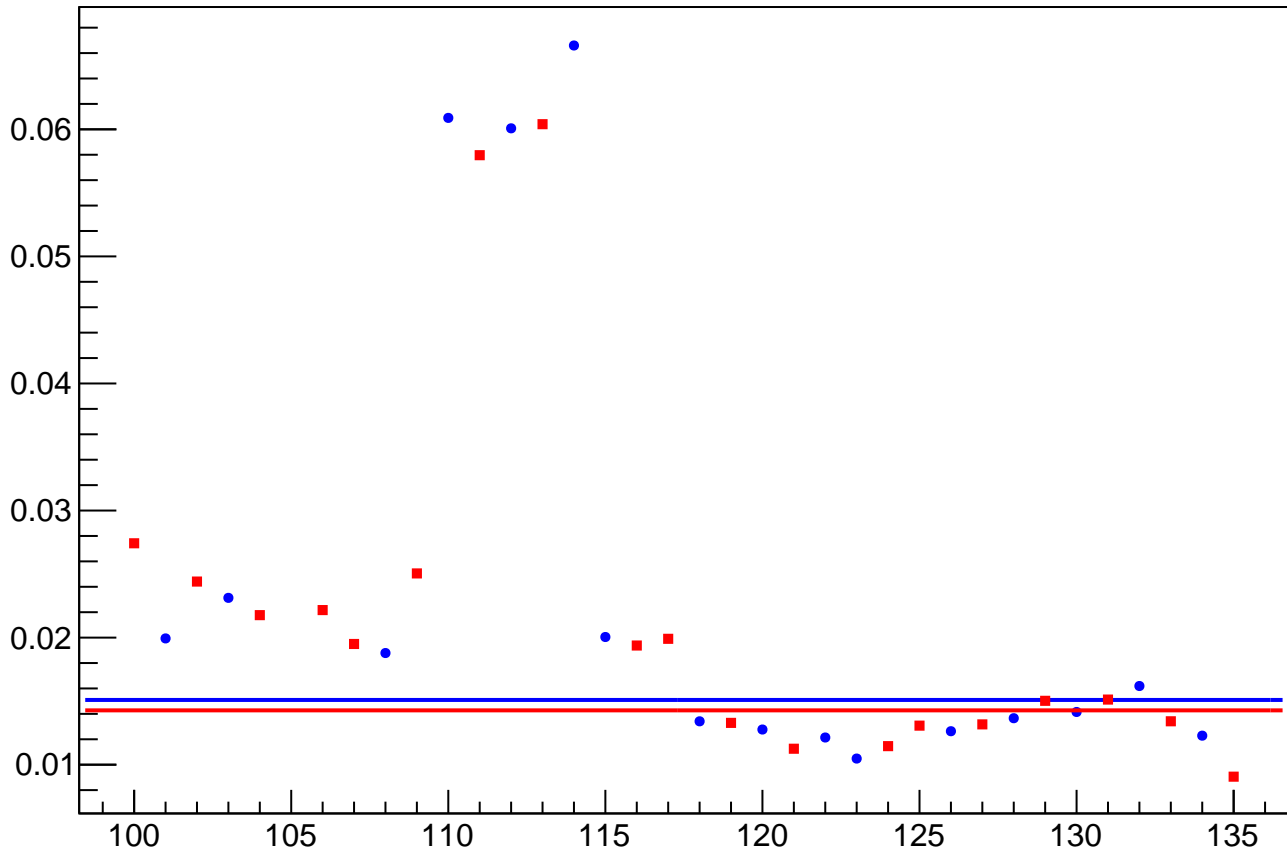
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

15.844+/-0.000  $\chi^2$ /NDF: 3853649058.6/15

15.795+/-0.000  $\chi^2$ /NDF: 8993229340.8/3

15.756+/-0.000  $\chi^2$ /NDF: 5049355849.6/18

# yield\_sam1\_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000  $\chi^2$ /NDF: 1378846.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.014+/-0.000  $\chi^2$ /NDF: 1920026.4/18

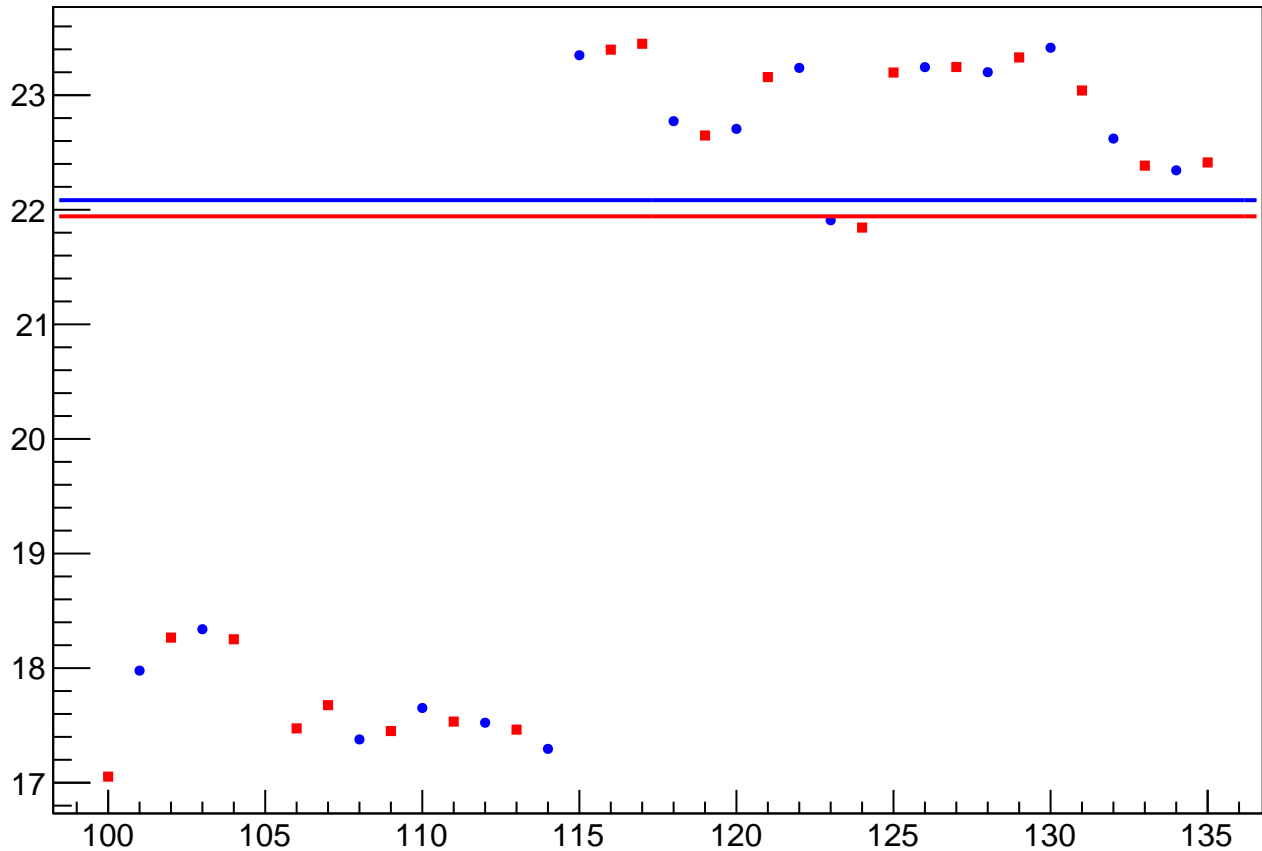
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.015+/-0.000  $\chi^2$ /NDF: 1378846.2/15

0.015+/-0.000  $\chi^2$ /NDF: 3314542.1/34

0.014+/-0.000  $\chi^2$ /NDF: 1920026.4/18

# yield\_sam2\_mean vs Slug, Sign Corrected



Right In: 22.084+/-0.000  $\chi^2$ /NDF: 905516592.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 21.943+/-0.000  $\chi^2$ /NDF: 1052683781.5/18

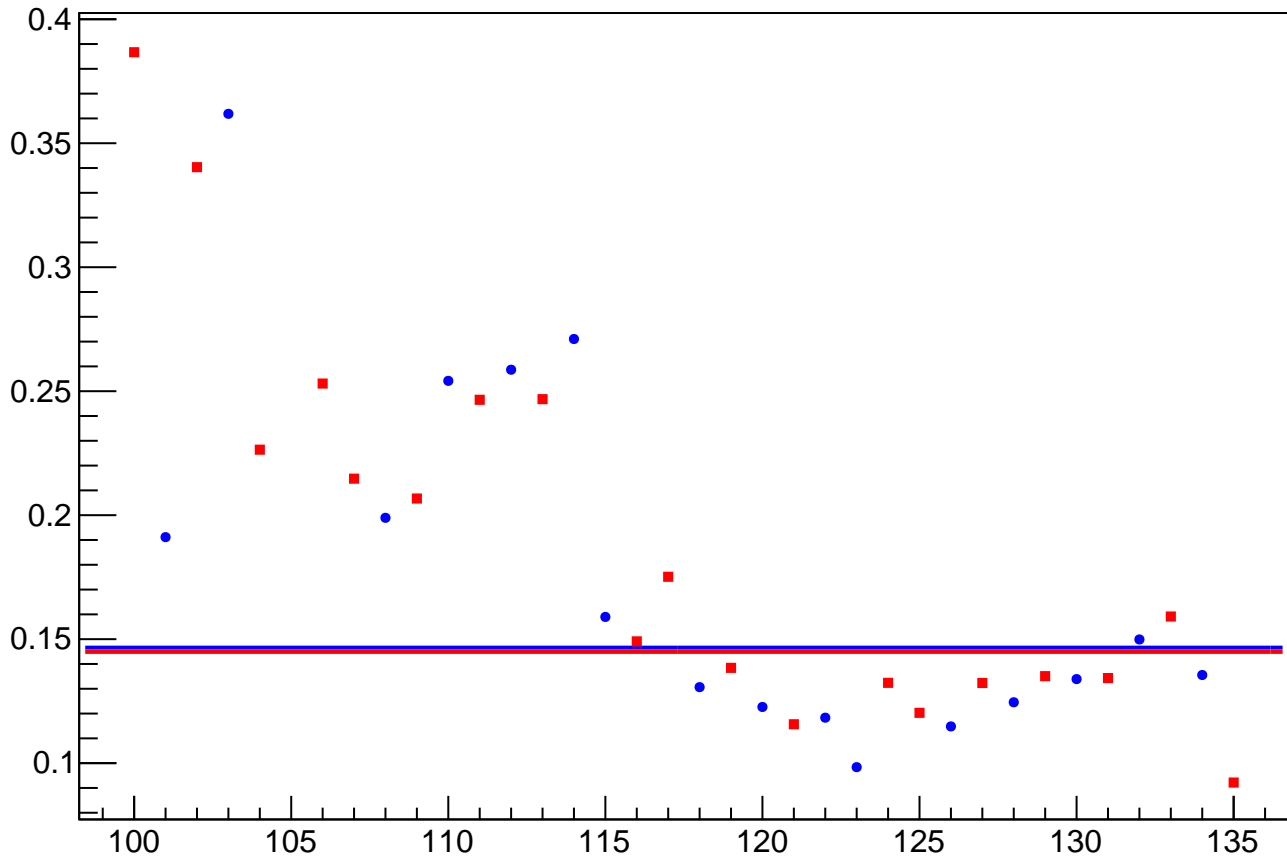
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

22.084+/-0.000  $\chi^2$ /NDF: 905516592.9/15

22.007+/-0.000  $\chi^2$ /NDF: 1960536724.4/3

21.943+/-0.000  $\chi^2$ /NDF: 1052683781.5/18

# yield\_sam2\_rms vs Slug, Sign Corrected



Right In: 0.147+/-0.000  $\chi^2/\text{NDF}$ : 994167.1/15

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

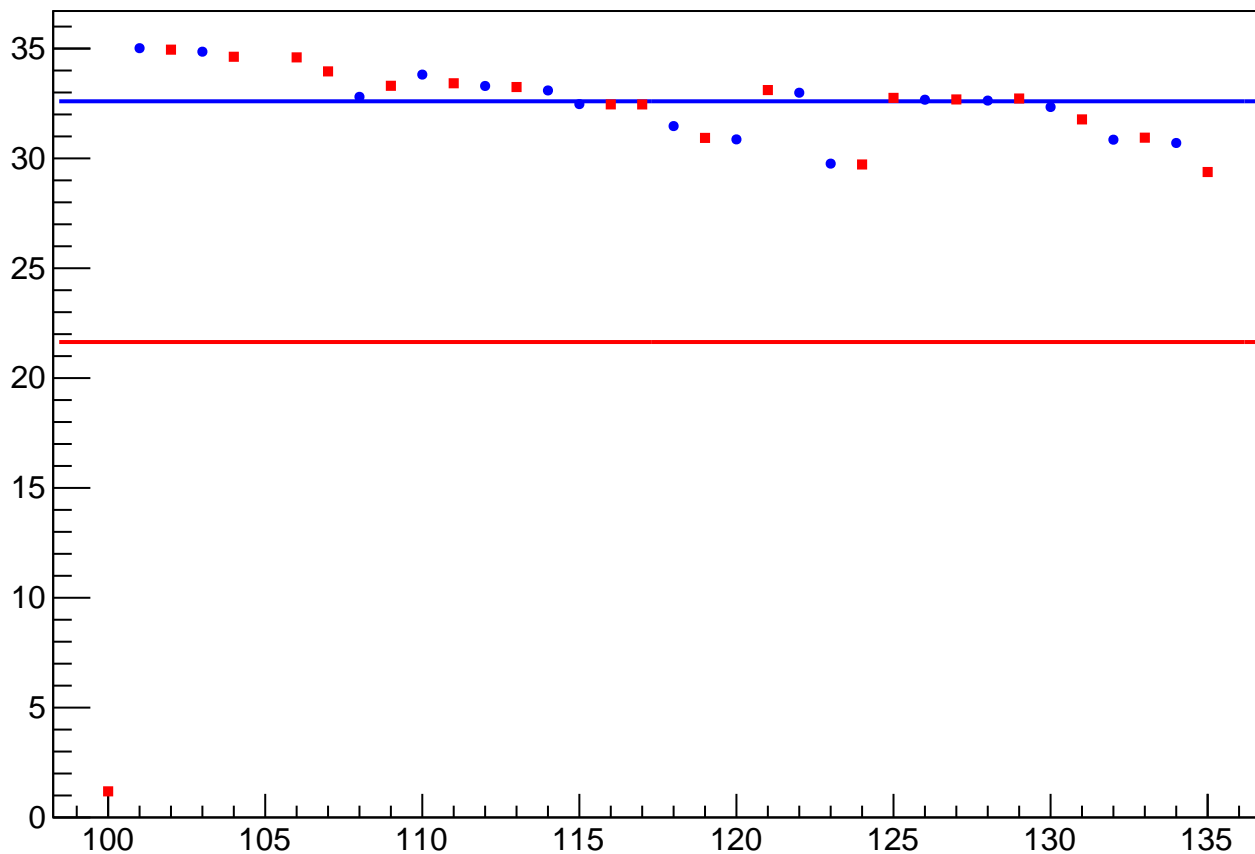
0.147+/-0.000  $\chi^2/\text{NDF}$ : 994167.1/15

0.146+/-0.000  $\chi^2/\text{NDF}$ : 2358872.1/34

0.145+/-0.000  $\chi^2/\text{NDF}$ : 1364010.9/18



# yield\_sam3\_mean vs Slug, Sign Corrected



Right In: 32.599+/-0.000  $\chi^2$ /NDF: 609605554.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

32.599+/-0.000  $\chi^2$ /NDF: 609605554.3/15

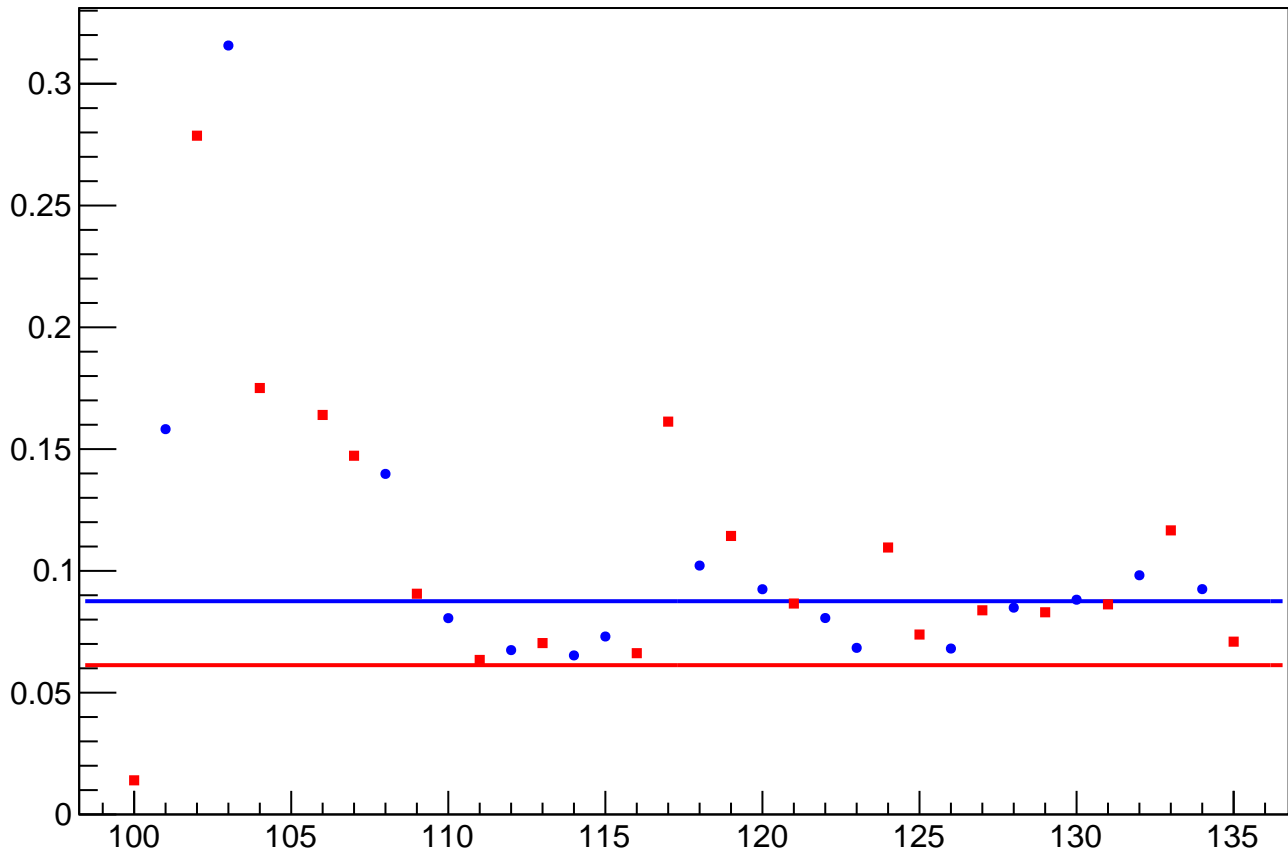
25.497+/-0.000  $\chi^2$ /NDF: 272575772864.0

Right Out: 21.641+/-0.000  $\chi^2$ /NDF: 228358979725.5/18

21.641+/-0.000  $\chi^2$ /NDF: 228358979725.5/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

# yield\_sam3\_rms vs Slug, Sign Corrected



Right In: 0.088+/-0.000  $\chi^2/\text{NDF}$ : 1051253.2/15

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

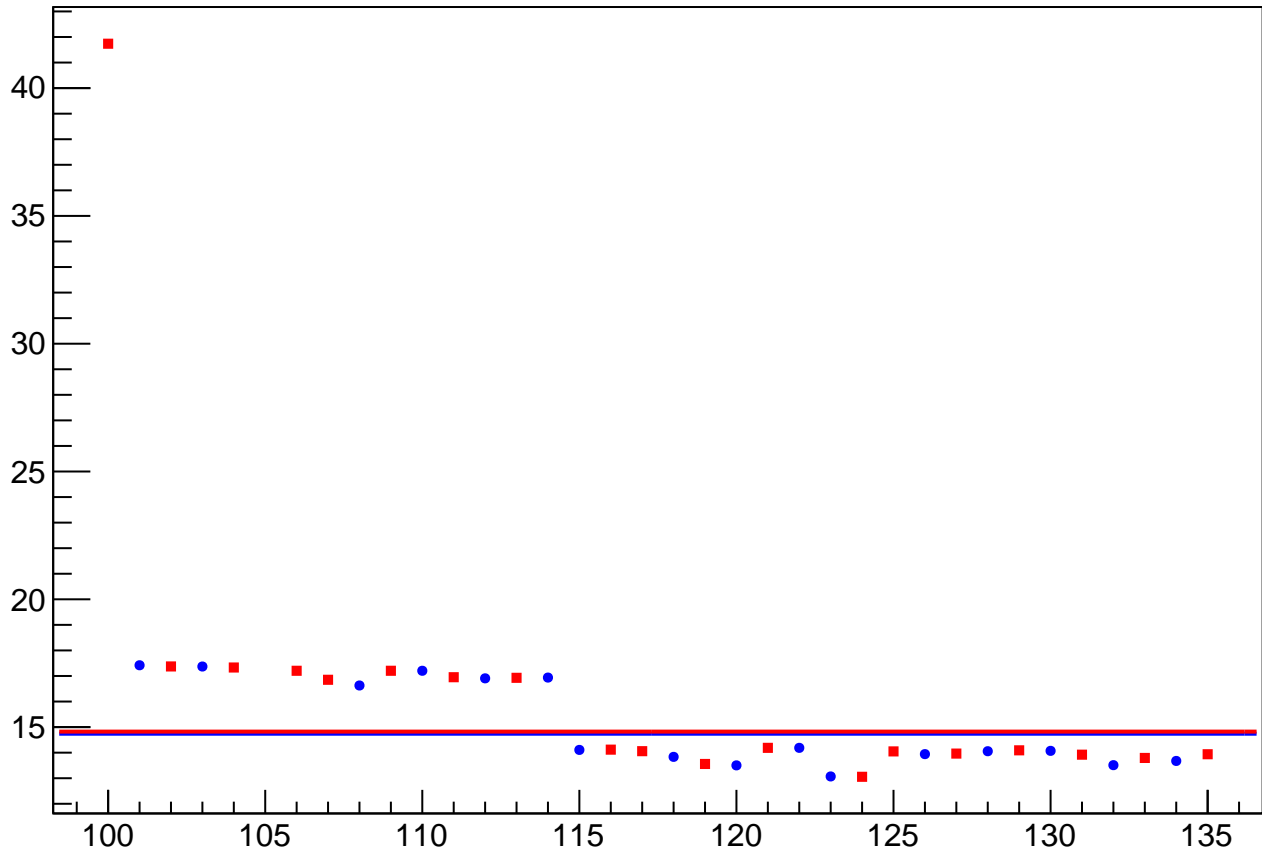
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.088+/-0.000  $\chi^2/\text{NDF}$ : 1051253.2/15

0.071+/-0.000  $\chi^2/\text{NDF}$ : 5186355.7/34

0.061+/-0.000  $\chi^2/\text{NDF}$ : 3634226.0/18

# yield\_sam4\_mean vs Slug, Sign Corrected



Right In: 14.741+/-0.000  $\chi^2/\text{NDF}$ : 1355464467.4/15

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

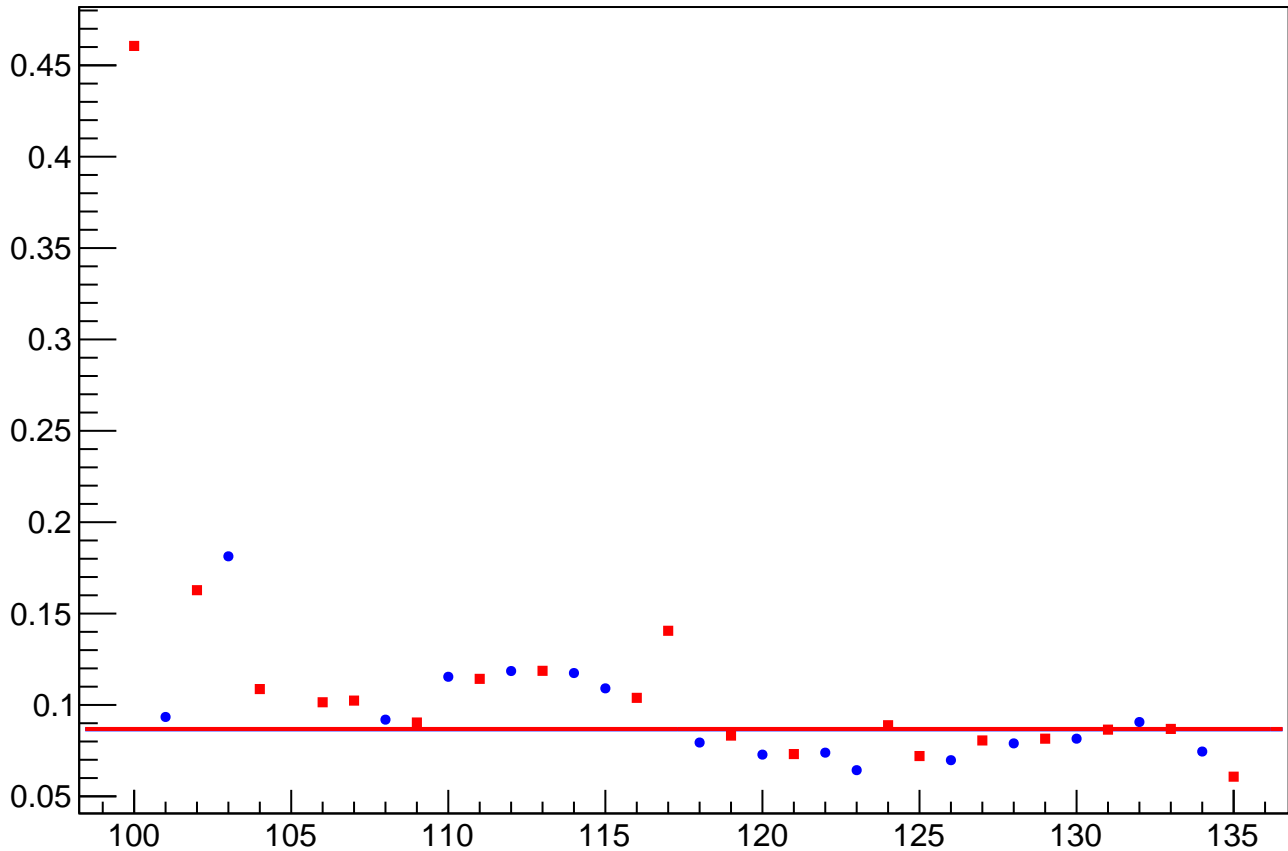
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14.741+/-0.000  $\chi^2/\text{NDF}$ : 1355464467.4/15

14.786+/-0.000  $\chi^2/\text{NDF}$ : 3206319926.9/3

14.824+/-0.000  $\chi^2/\text{NDF}$ : 1848462325.7/18

# yield\_sam4\_rms vs Slug, Sign Corrected



Right In: 0.087+/-0.000  $\chi^2/\text{NDF}$ : 555418.0/15

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

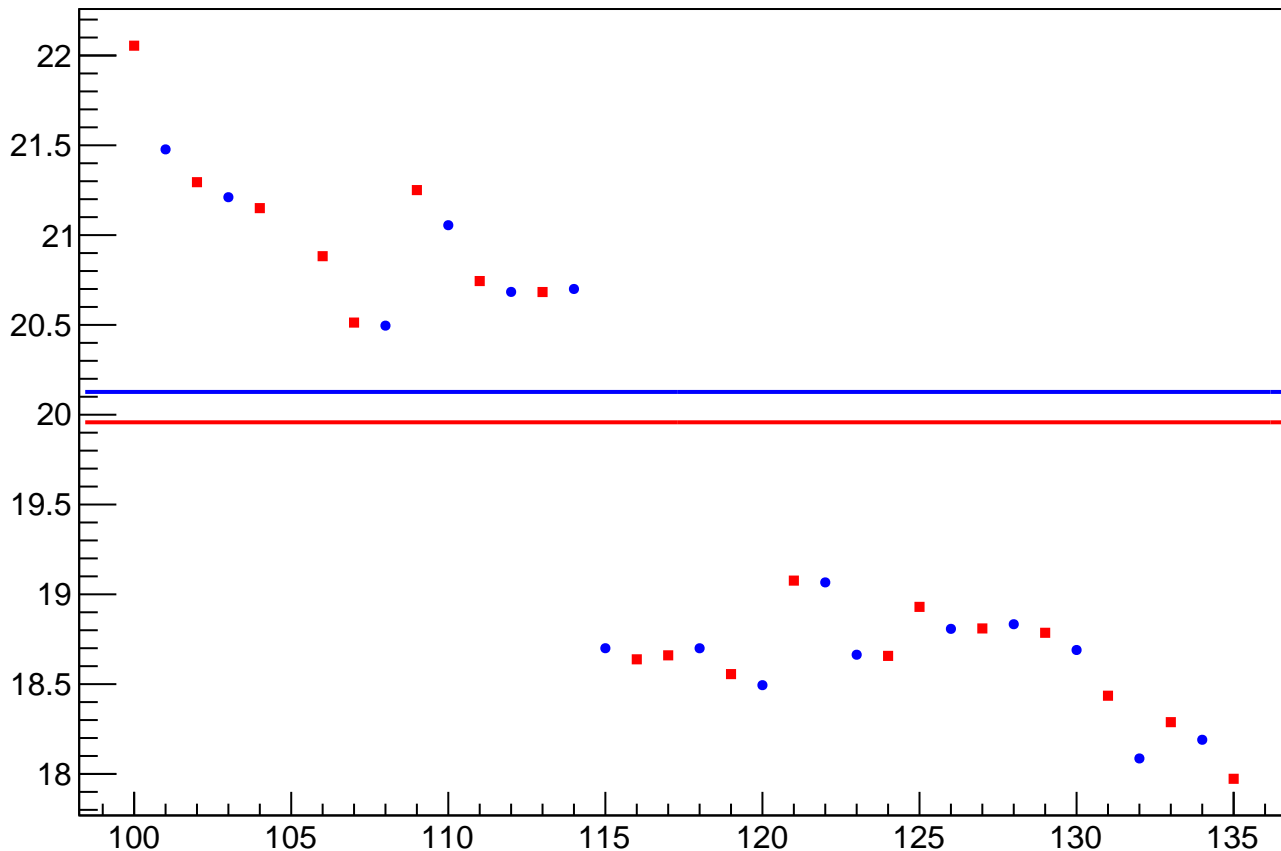
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.087+/-0.000  $\chi^2/\text{NDF}$ : 555418.0/15

0.087+/-0.000  $\chi^2/\text{NDF}$ : 1260945.3/34

0.087+/-0.000  $\chi^2/\text{NDF}$ : 705491.7/18

# yield\_sam5\_mean vs Slug, Sign Corrected



Right In: 20.127+/-0.000  $\chi^2$ /NDF: 7418187042.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

20.127+/-0.000  $\chi^2$ /NDF: 7418187042.2/15

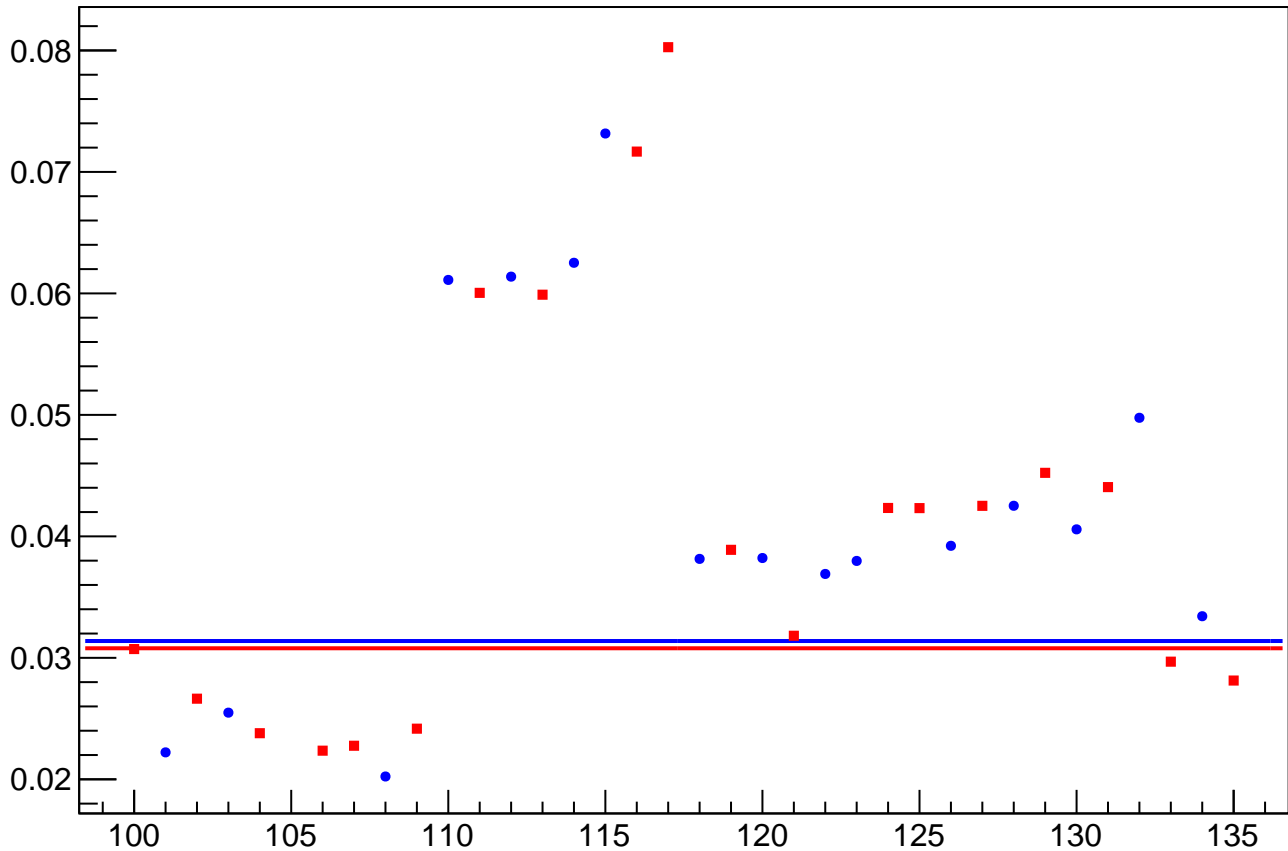
20.033+/-0.000  $\chi^2$ /NDF: 17701958469.9/18

Right Out: 19.958+/-0.000  $\chi^2$ /NDF: 10206280613.1/18

19.958+/-0.000  $\chi^2$ /NDF: 10206280613.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

# yield\_sam5\_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 1257718.6/15

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

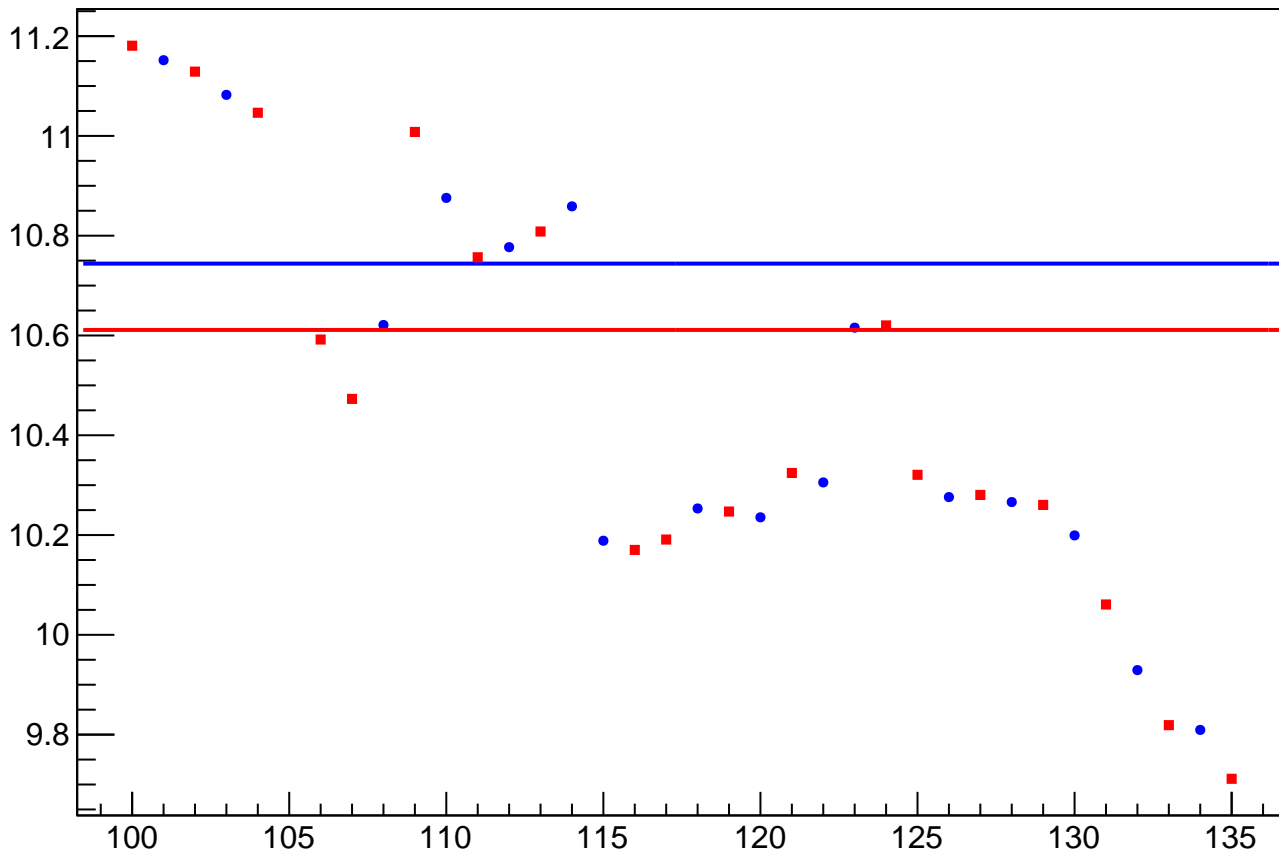
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.031+/-0.000  $\chi^2/\text{NDF}$ : 1257718.6/15

0.031+/-0.000  $\chi^2/\text{NDF}$ : 2467730.2/34

0.031+/-0.000  $\chi^2/\text{NDF}$ : 1208073.1/18

# yield\_sam6\_mean vs Slug, Sign Corrected



Right In: 10.744+/-0.000  $\chi^2$ /NDF: 3647770199.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 10.611+/-0.000  $\chi^2$ /NDF: 5029690417.8/18

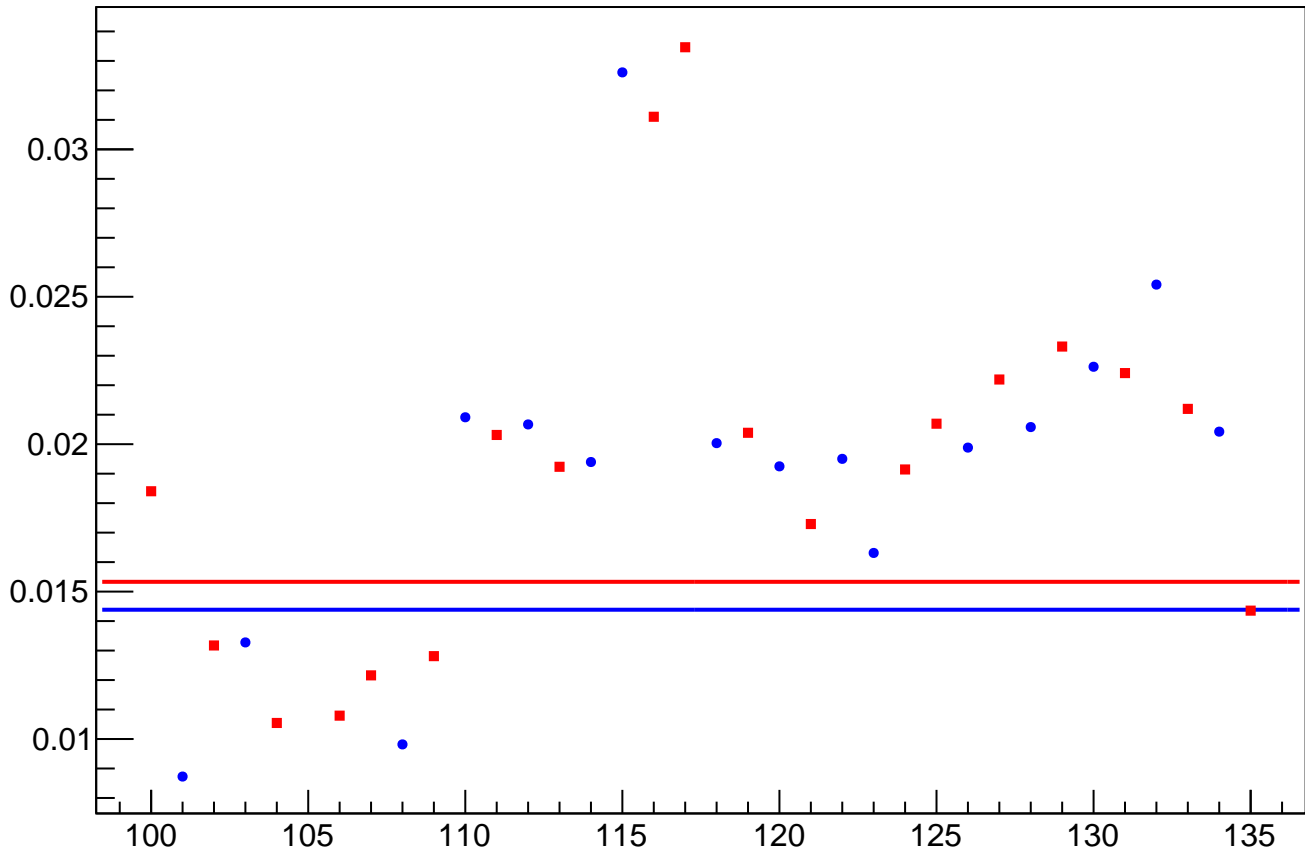
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

10.744+/-0.000  $\chi^2$ /NDF: 3647770199.8/15

10.674+/-0.000  $\chi^2$ /NDF: 8883346985.2/3

10.611+/-0.000  $\chi^2$ /NDF: 5029690417.8/18

# yield\_sam6\_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1405947.8/15

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

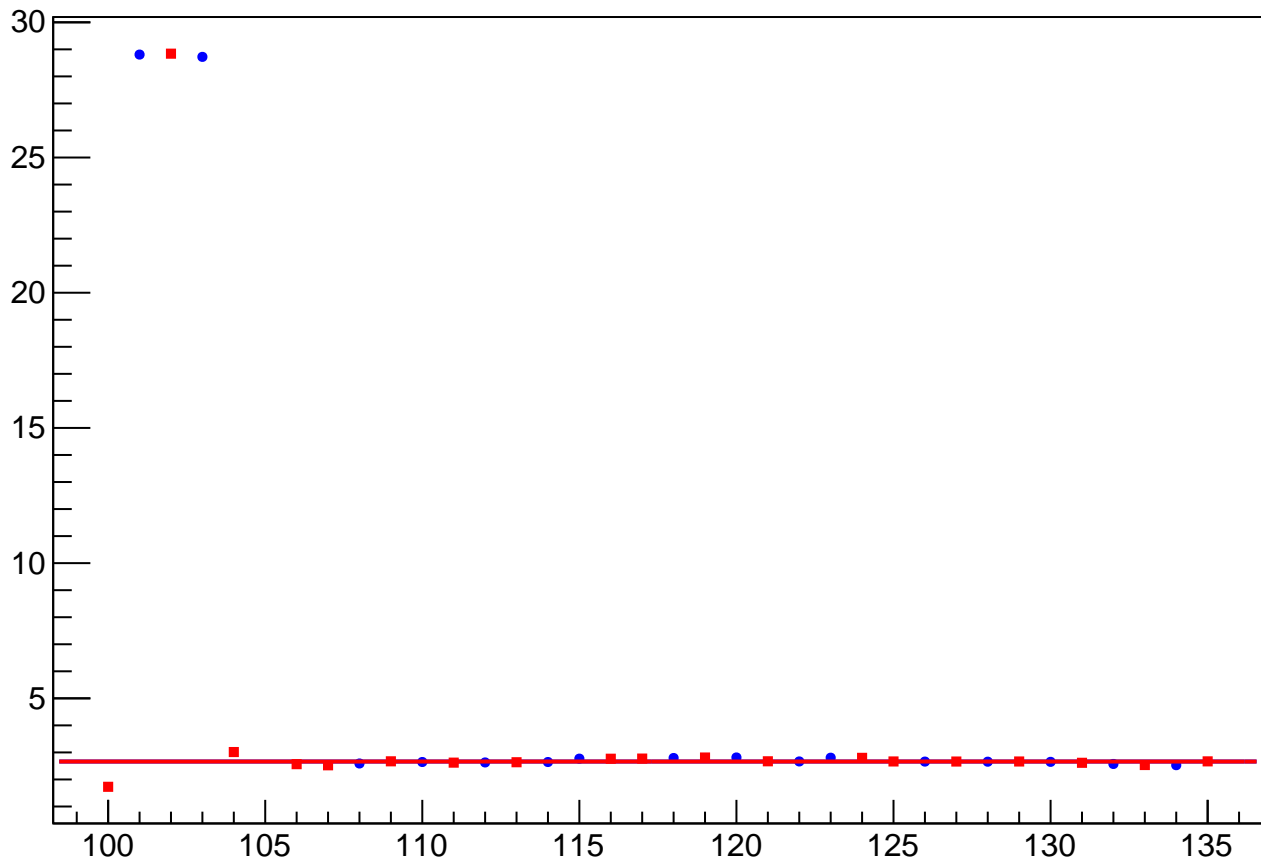
0.014+/-0.000  $\chi^2/\text{NDF}$ : 1405947.8/15

0.015+/-0.000  $\chi^2/\text{NDF}$ : 2437620.1/34

0.015+/-0.000  $\chi^2/\text{NDF}$ : 1010792.8/18



# yield\_sam7\_mean vs Slug, Sign Corrected



Right In: 2.664+/-0.000  $\chi^2/\text{NDF}$ : 163116146836.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.664+/-0.000  $\chi^2/\text{NDF}$ : 163116146836.0/15

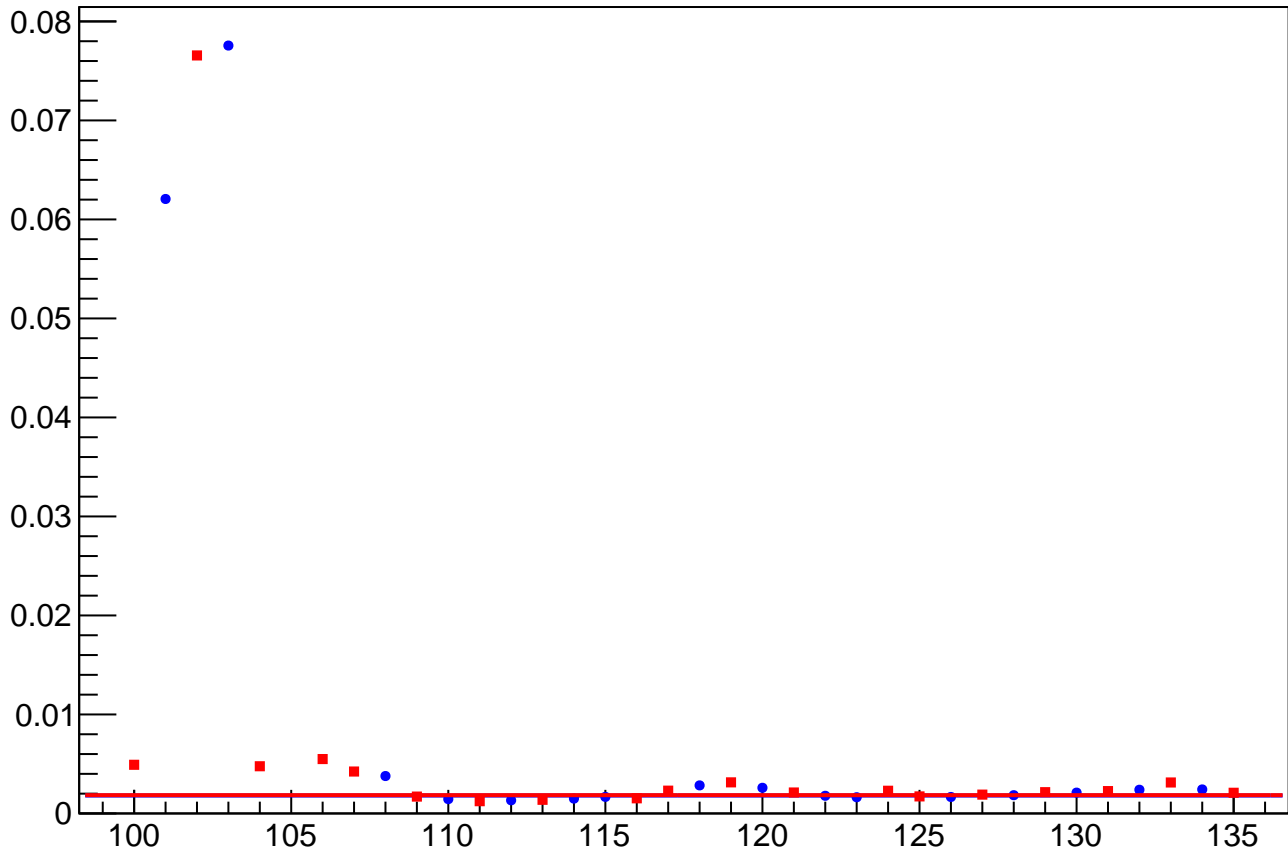
Right Out: 2.663+/-0.000  $\chi^2/\text{NDF}$ : 70465922629.9/18

2.663+/-0.000  $\chi^2/\text{NDF}$ : 233582074420.1/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.663+/-0.000  $\chi^2/\text{NDF}$ : 70465922629.9/18

# yield\_sam7\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2660588.9/15

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

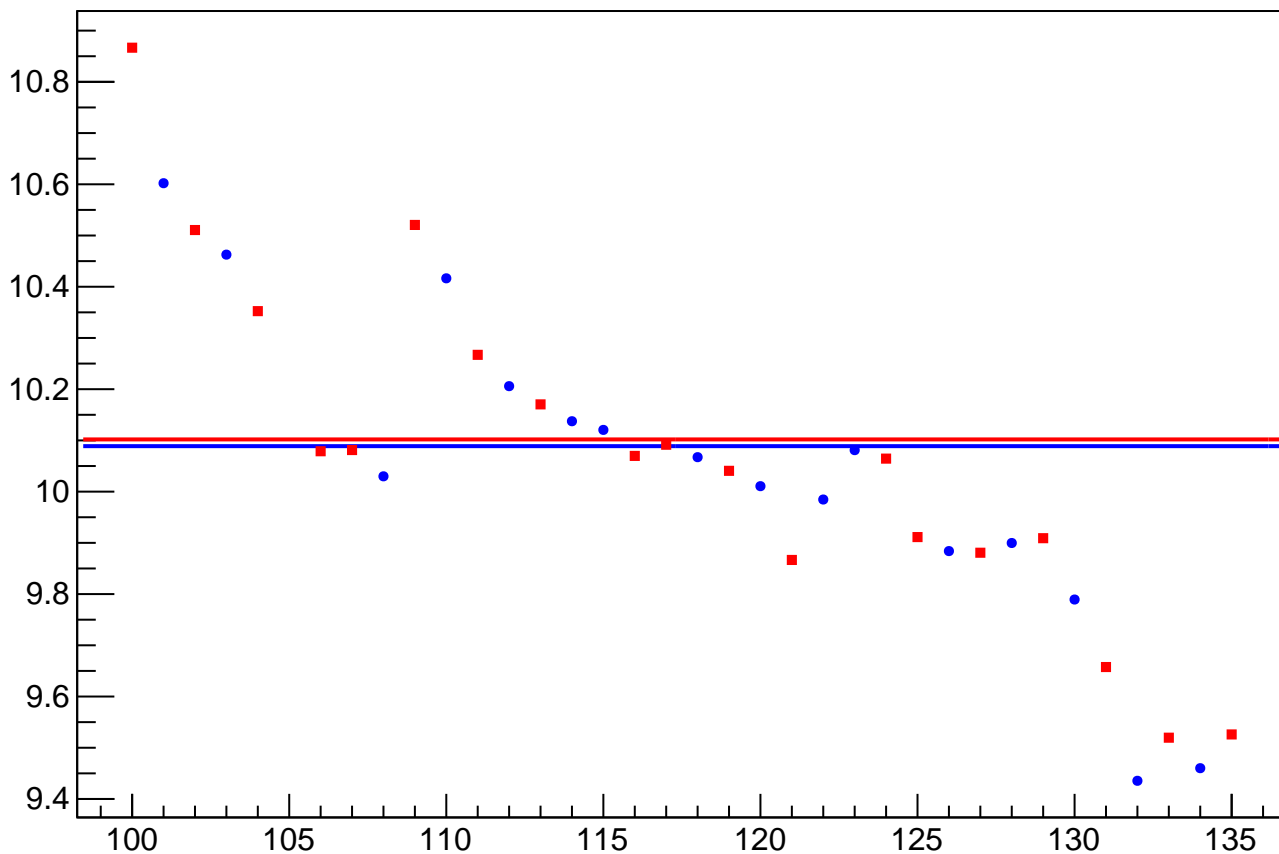
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.002+/-0.000  $\chi^2/\text{NDF}$ : 2660588.9/15

0.002+/-0.000  $\chi^2/\text{NDF}$ : 4996475.6/34

0.002+/-0.000  $\chi^2/\text{NDF}$ : 2334151.2/18

# yield\_sam8\_mean vs Slug, Sign Corrected



Right In: 10.089+/-0.000  $\chi^2$ /NDF: 9868978691.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

10.089+/-0.000  $\chi^2$ /NDF: 9868978691.9/15

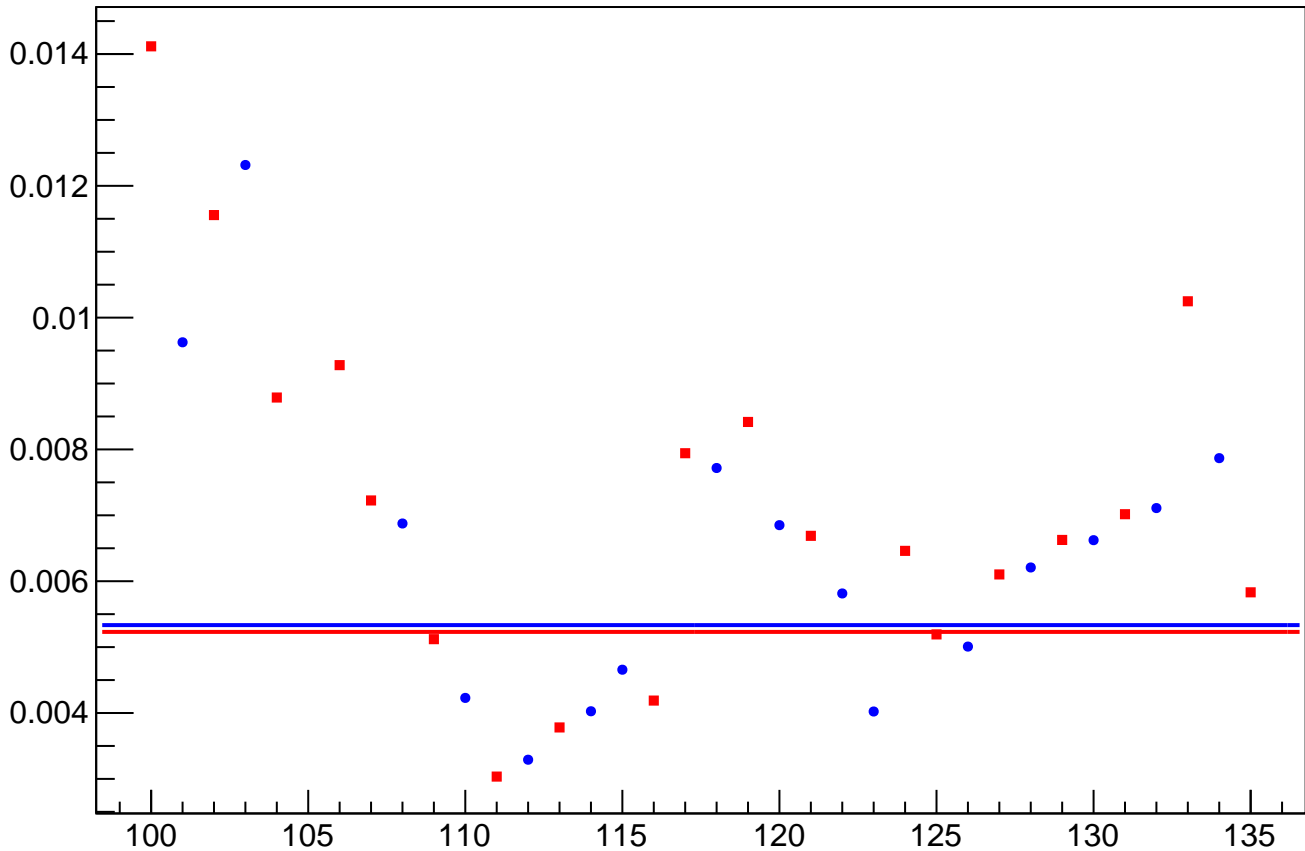
10.096+/-0.000  $\chi^2$ /NDF: 22917458815.9/15

Right Out: 10.102+/-0.000  $\chi^2$ /NDF: 13033934880.0/18

10.102+/-0.000  $\chi^2$ /NDF: 13033934880.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

# yield\_sam8\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2$ /NDF: 1238204.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.005+/-0.000  $\chi^2$ /NDF: 1666969.5/18

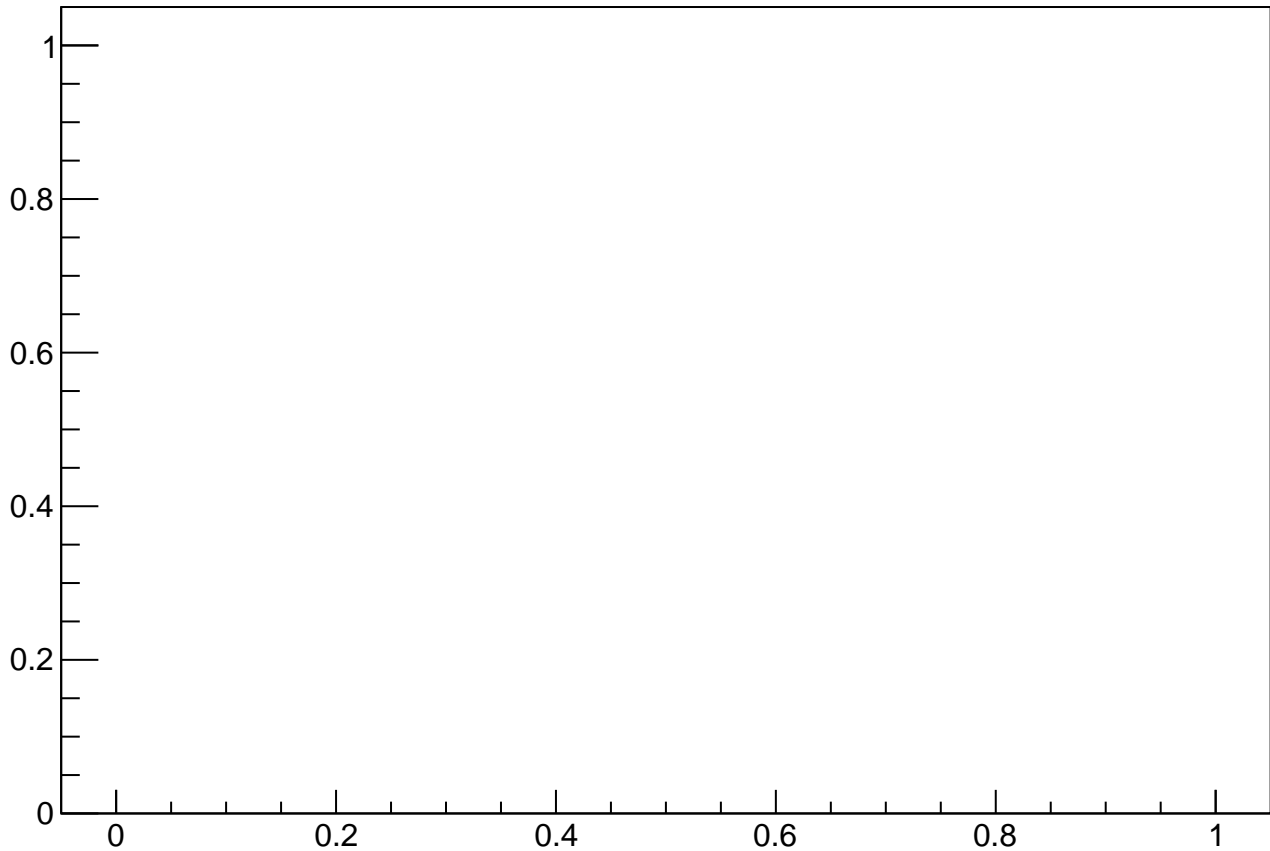
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.005+/-0.000  $\chi^2$ /NDF: 1238204.6/15

0.005+/-0.000  $\chi^2$ /NDF: 2906963.7/34

0.005+/-0.000  $\chi^2$ /NDF: 1666969.5/18

# cor\_sam1\_mean vs Slug, Sign Corrected



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

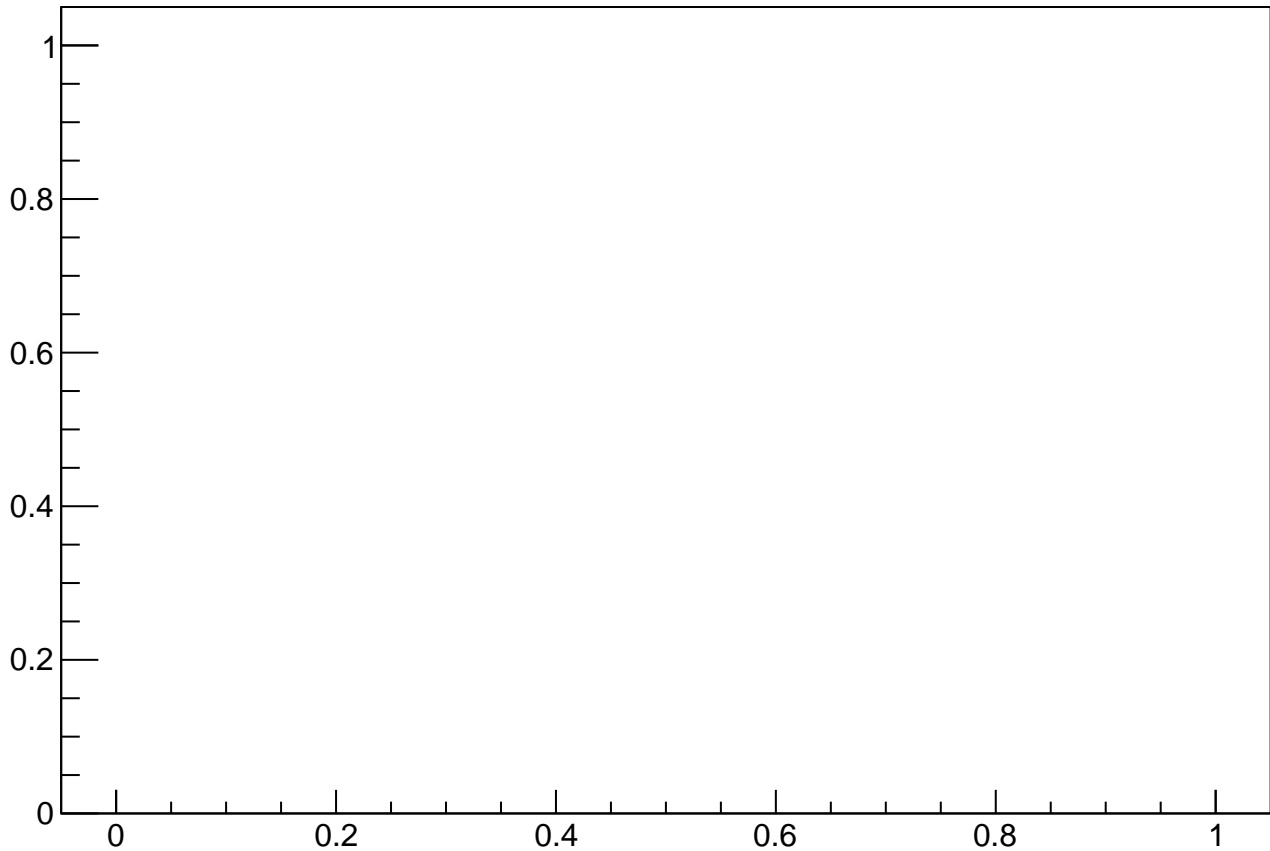
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam1\_rms vs Slug, Sign Corrected



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

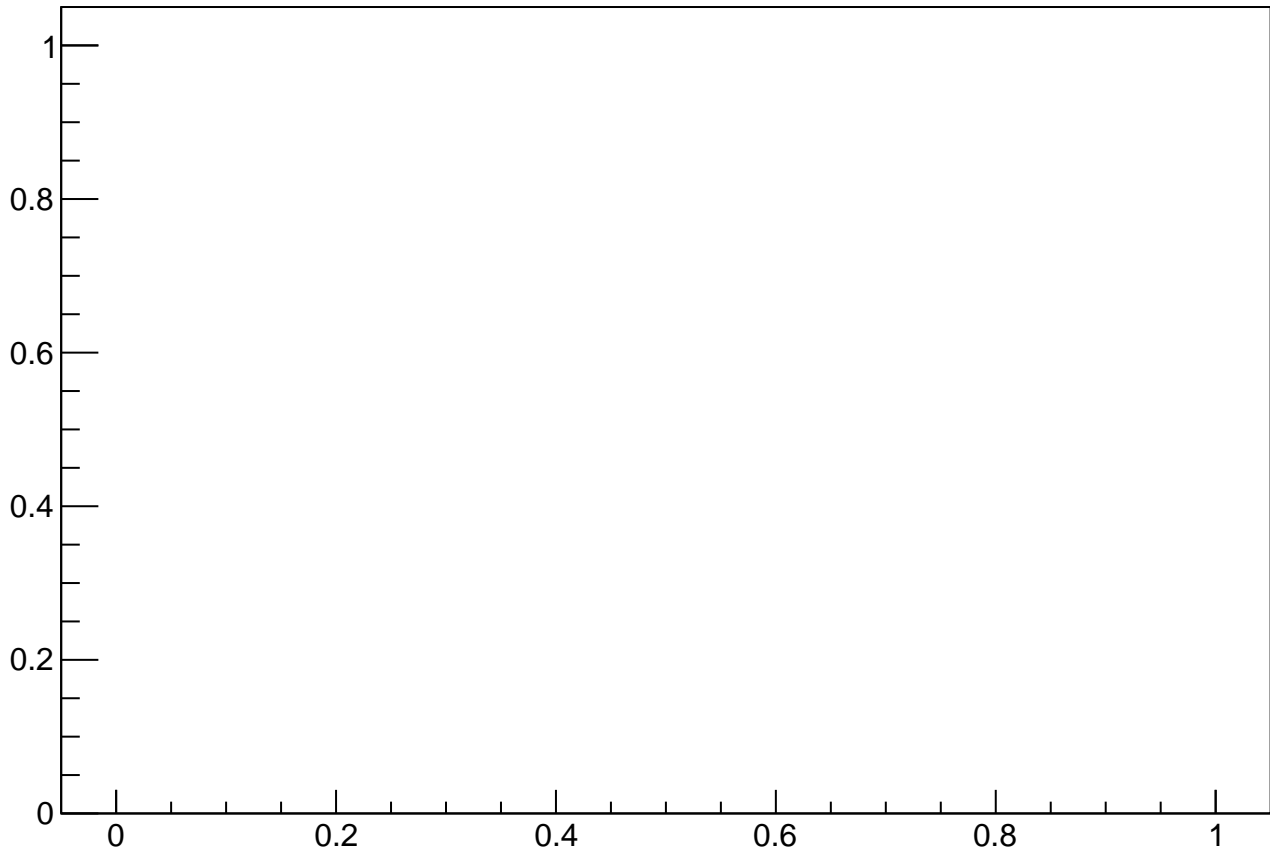
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_sam2\_mean vs Slug, Sign Corrected



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

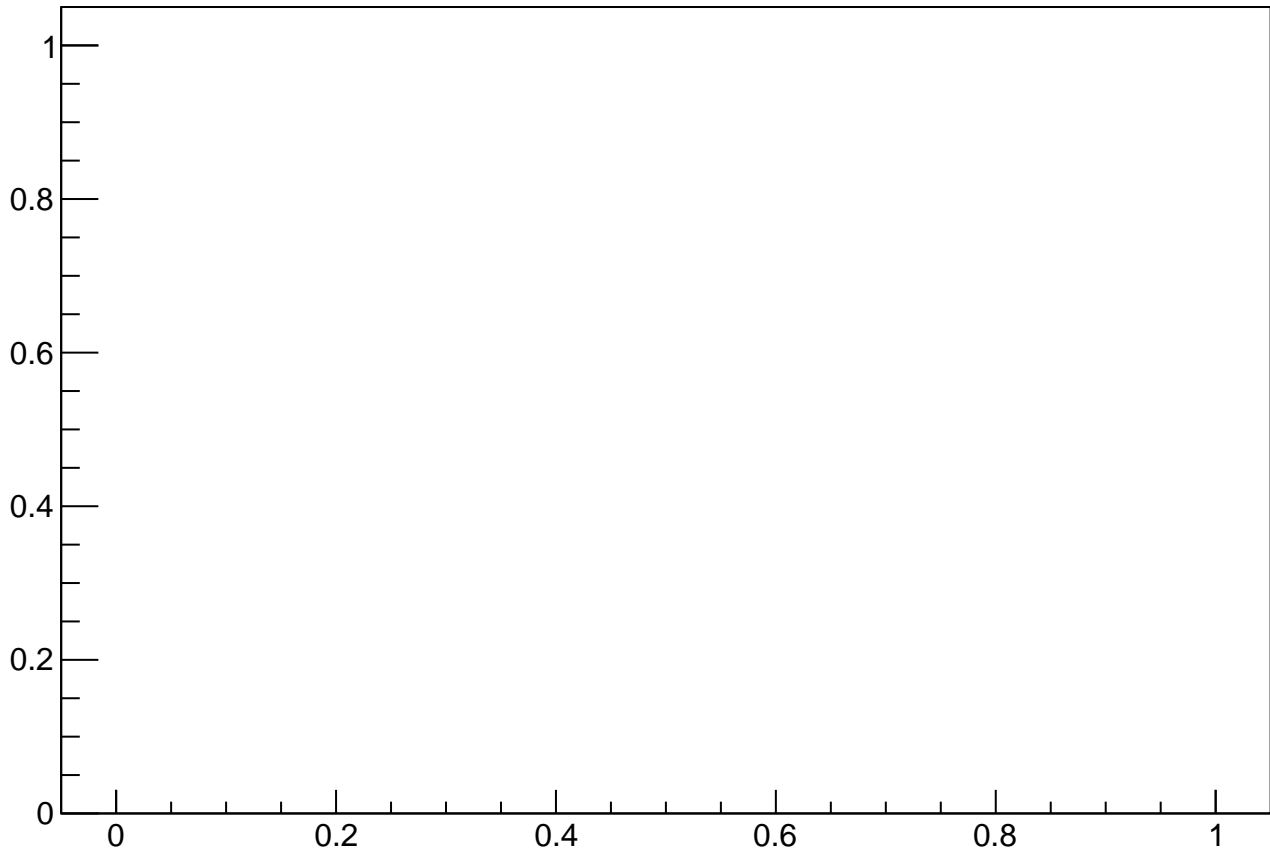
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam2\_rms vs Slug, Sign Corrected



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

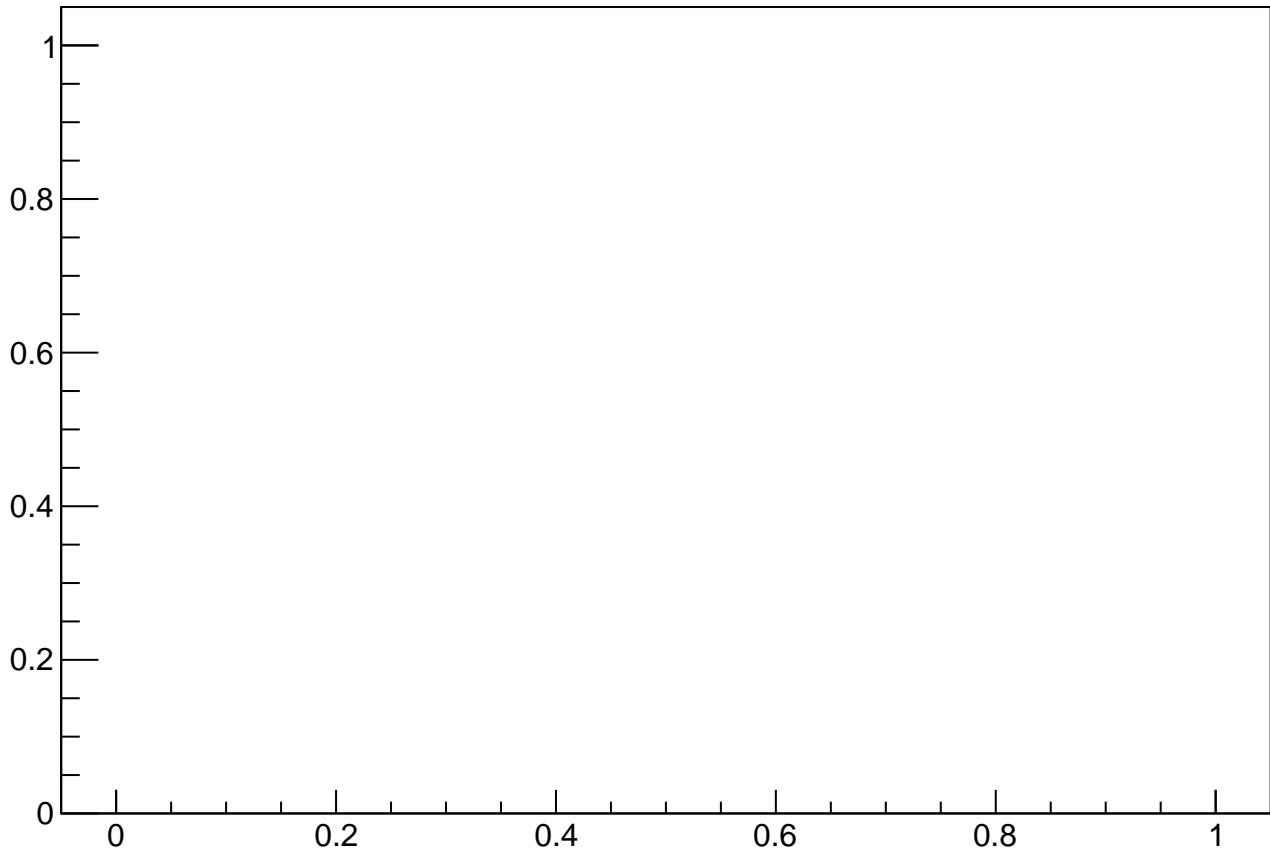
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# cor\_sam3\_mean vs Slug, Sign Corrected



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

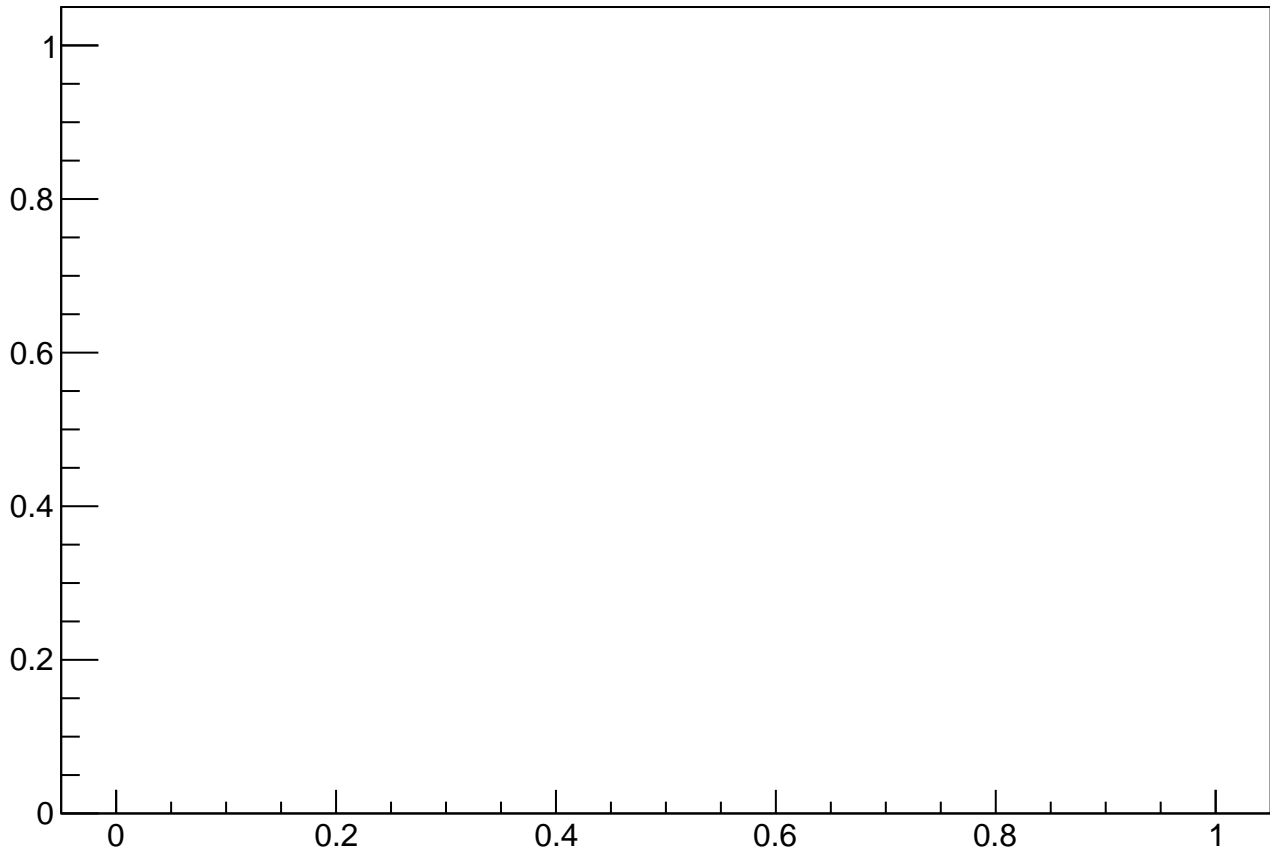
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam3\_rms vs Slug, Sign Corrected



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

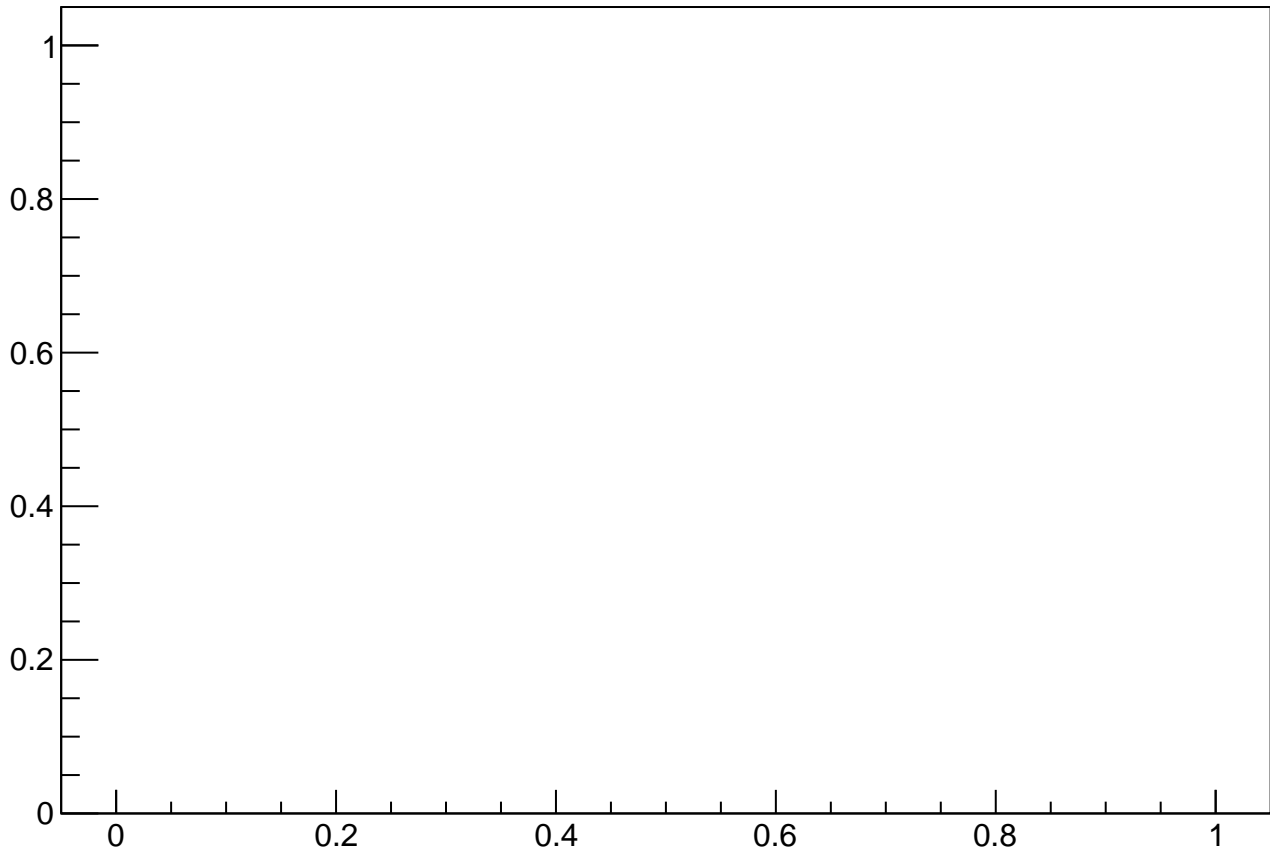
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_sam4\_mean vs Slug, Sign Corrected



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

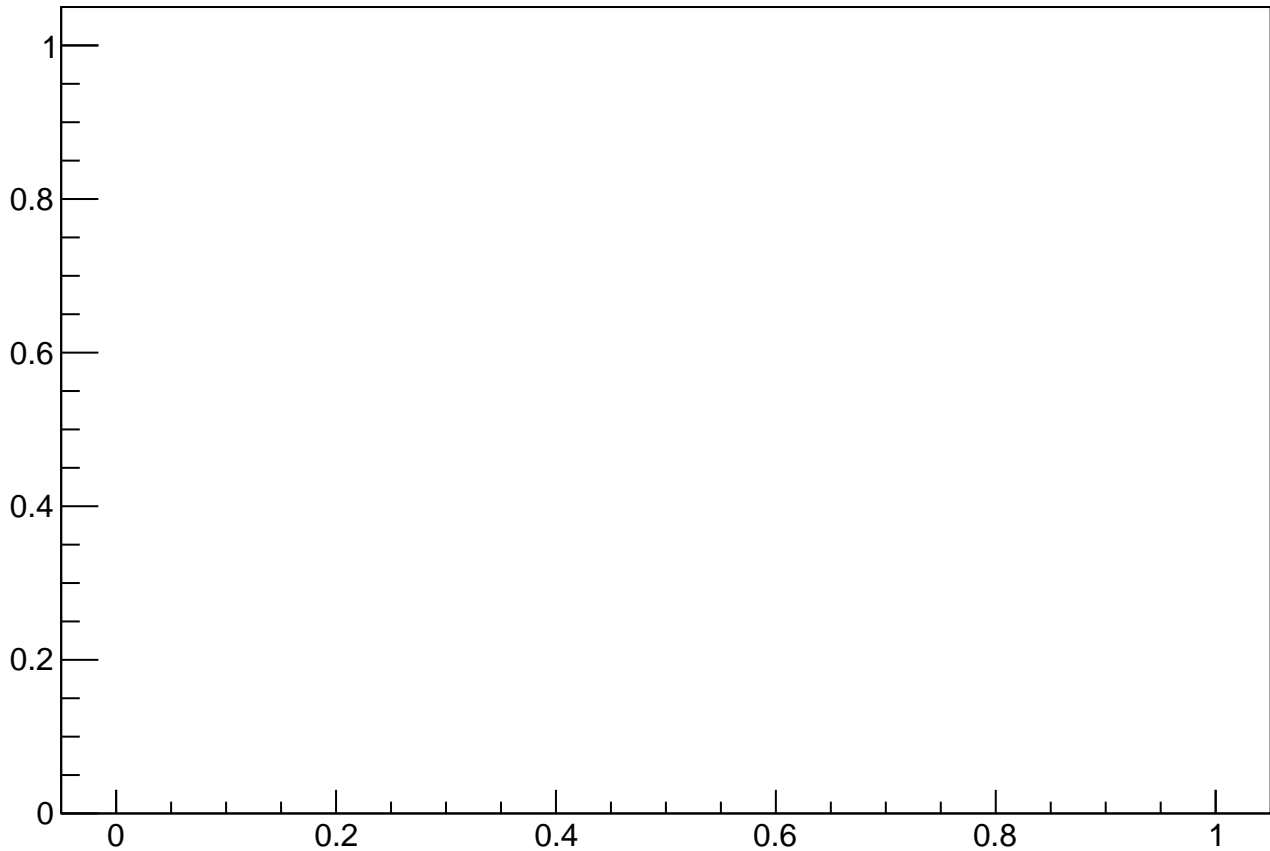
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_sam4\_rms vs Slug, Sign Corrected



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

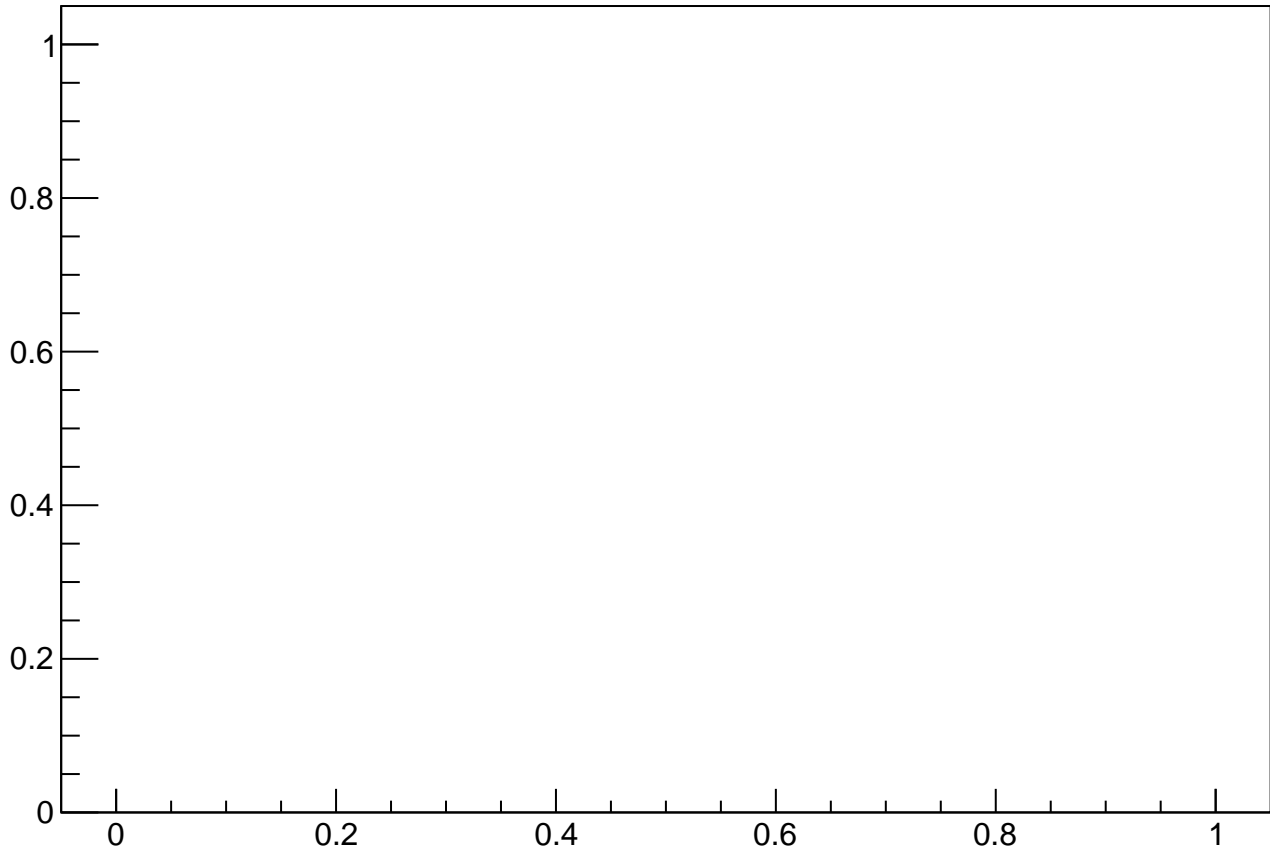
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_sam5\_mean vs Slug, Sign Corrected



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

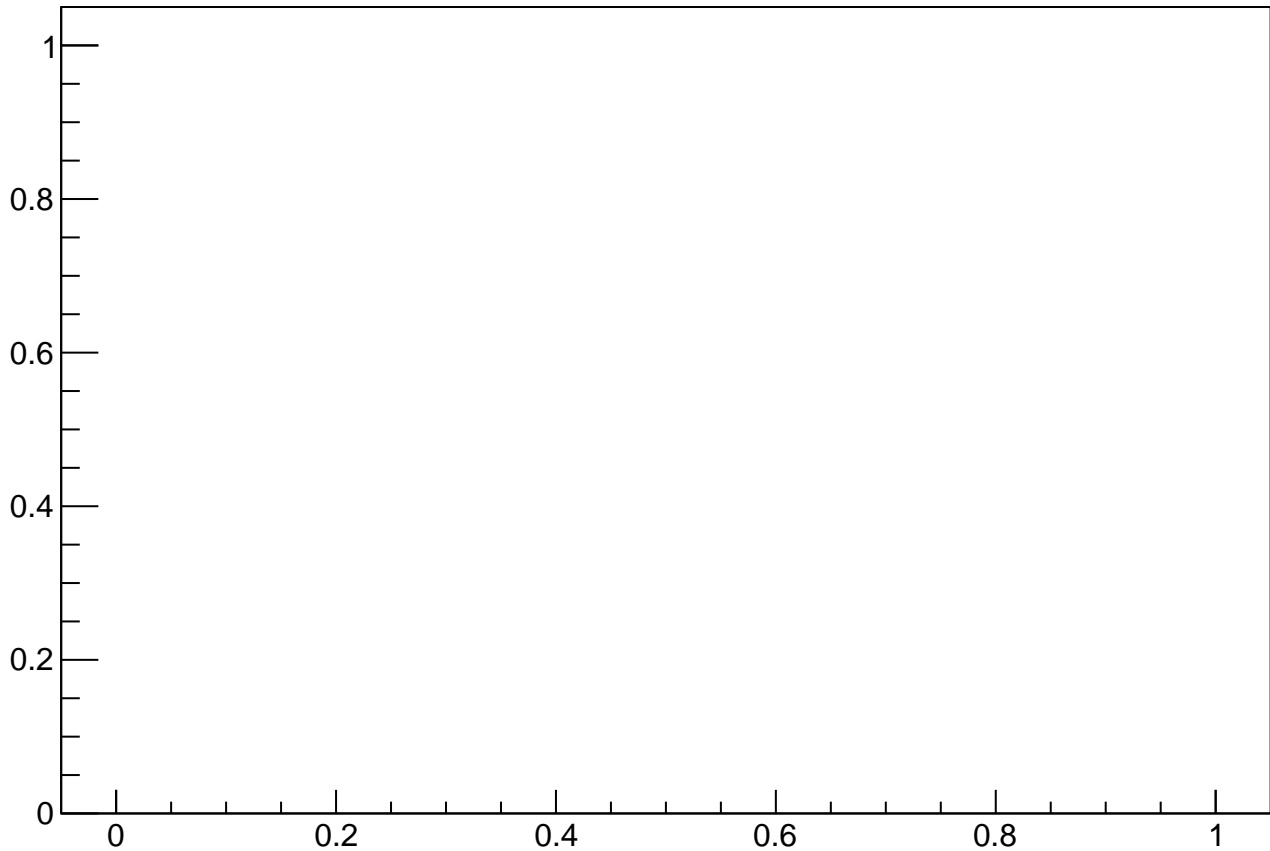
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam5\_rms vs Slug, Sign Corrected



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

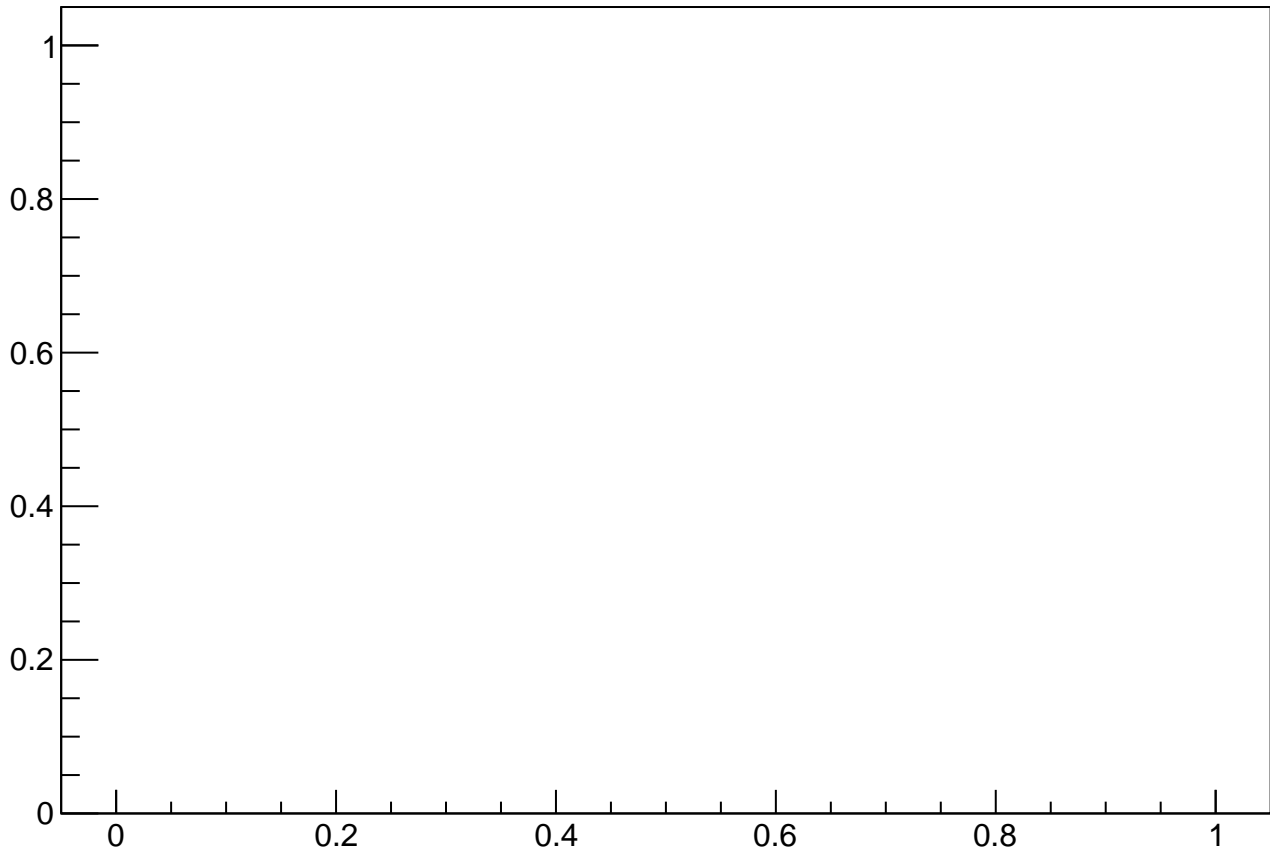
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_sam6\_mean vs Slug, Sign Corrected



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

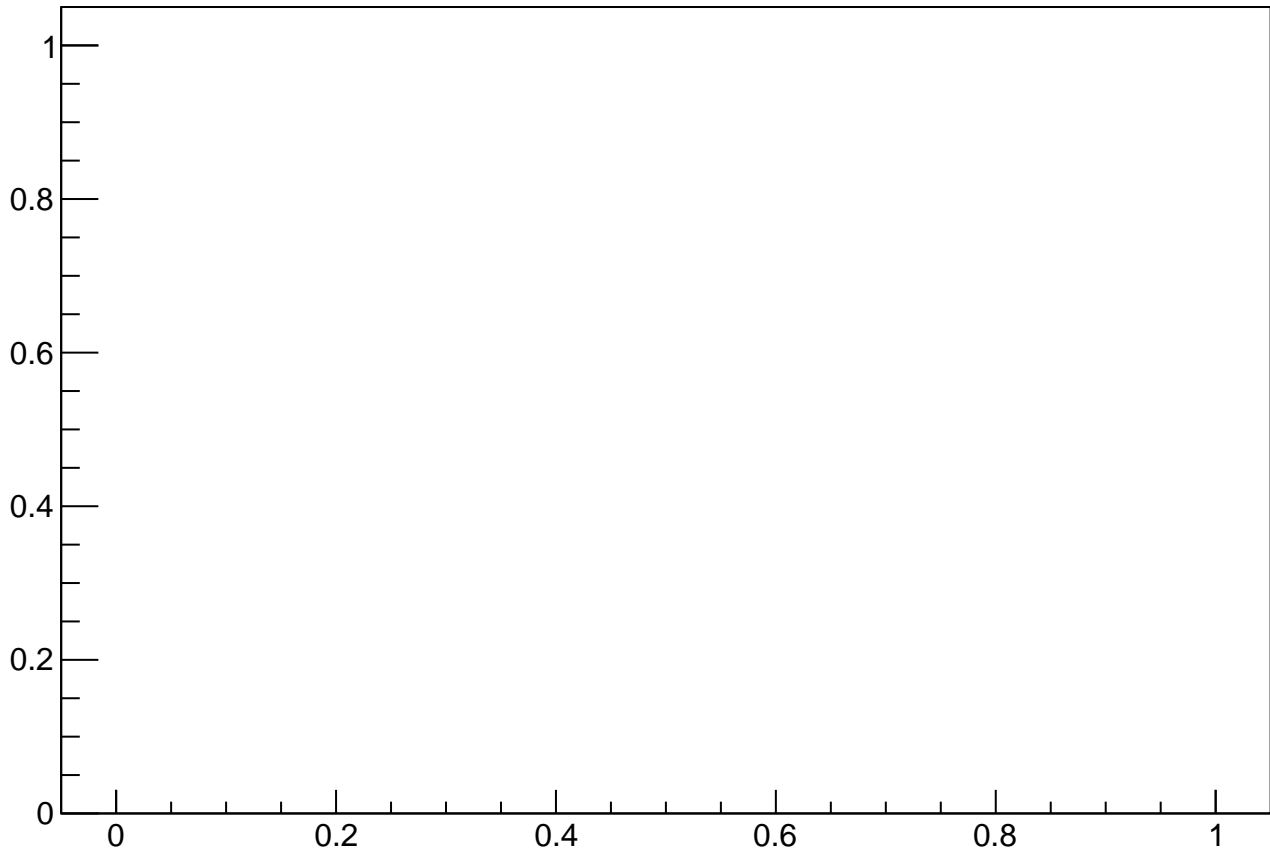
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam6\_rms vs Slug, Sign Corrected



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

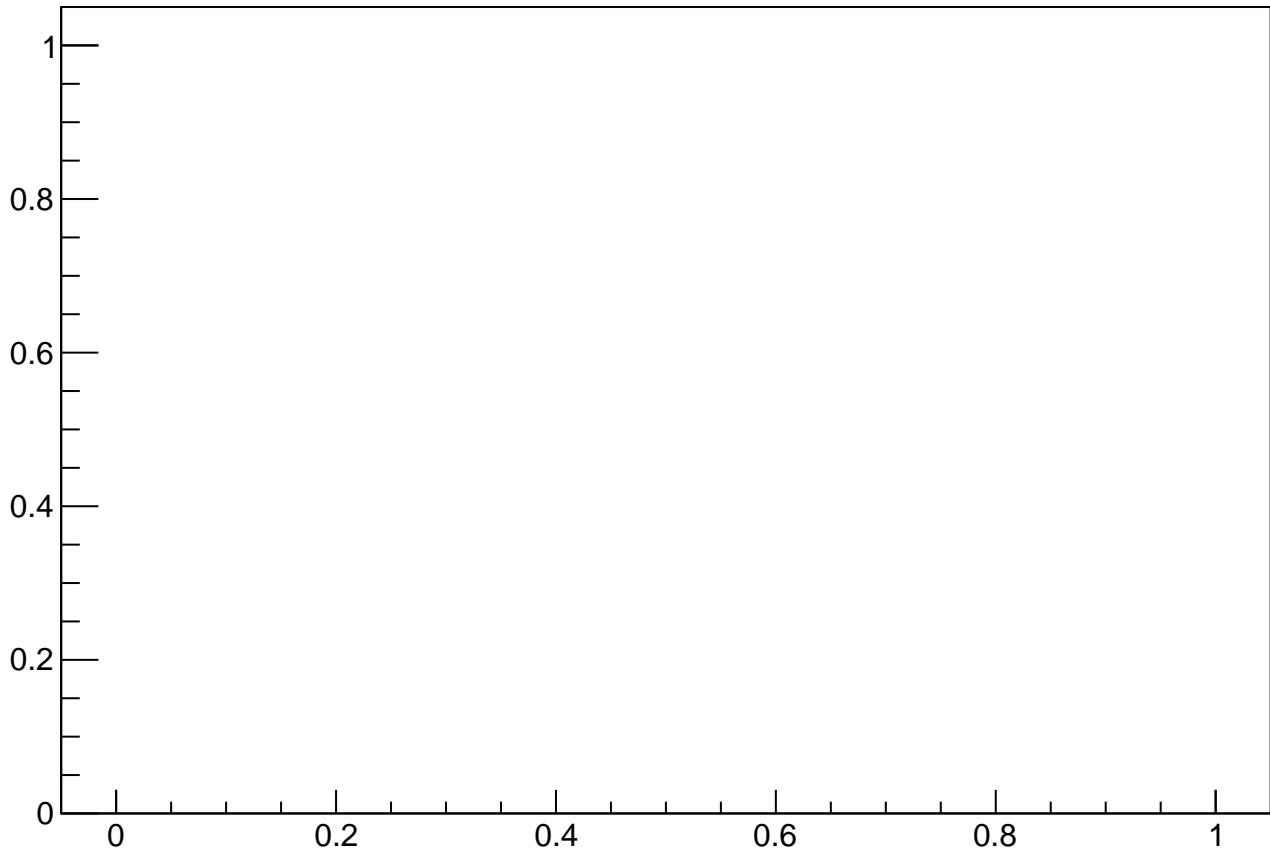
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# cor\_sam7\_mean vs Slug, Sign Corrected



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

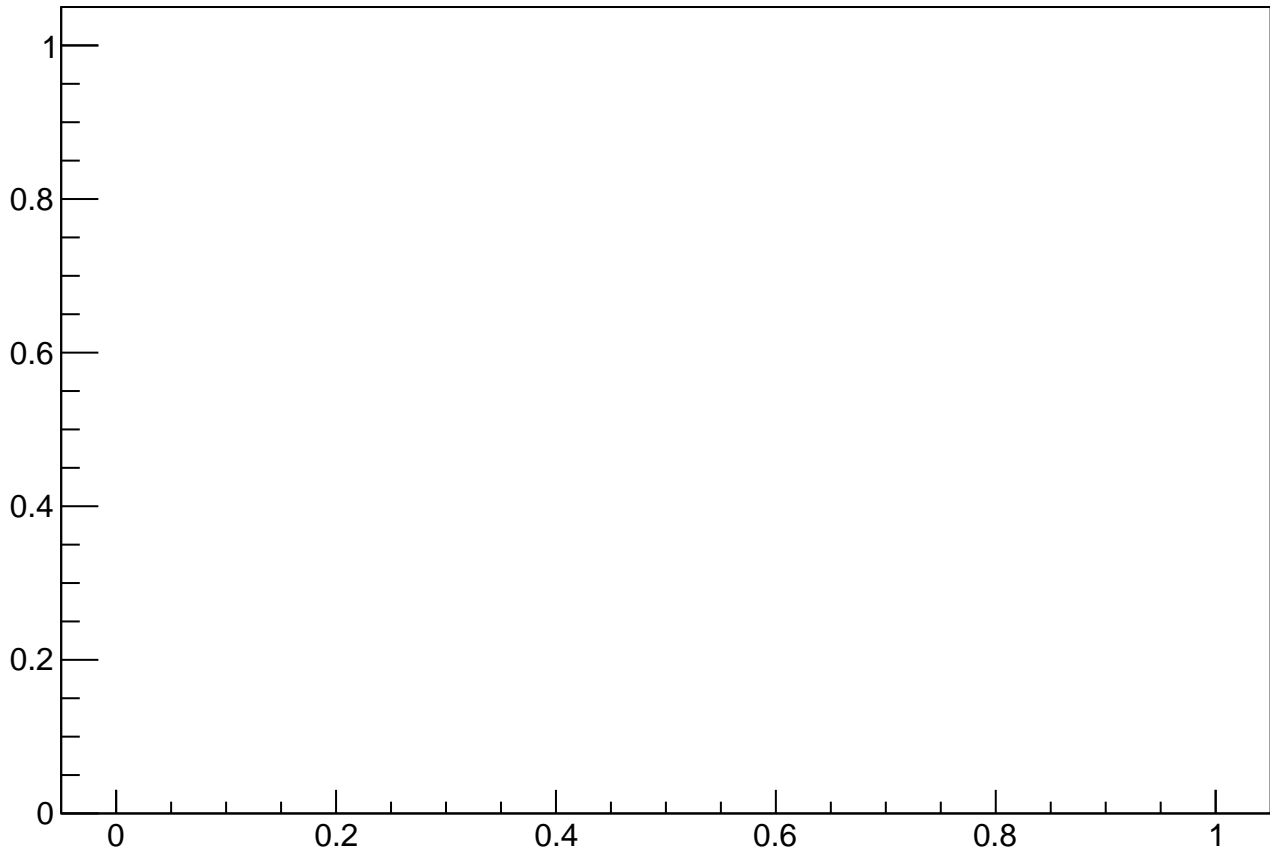
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam7\_rms vs Slug, Sign Corrected



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

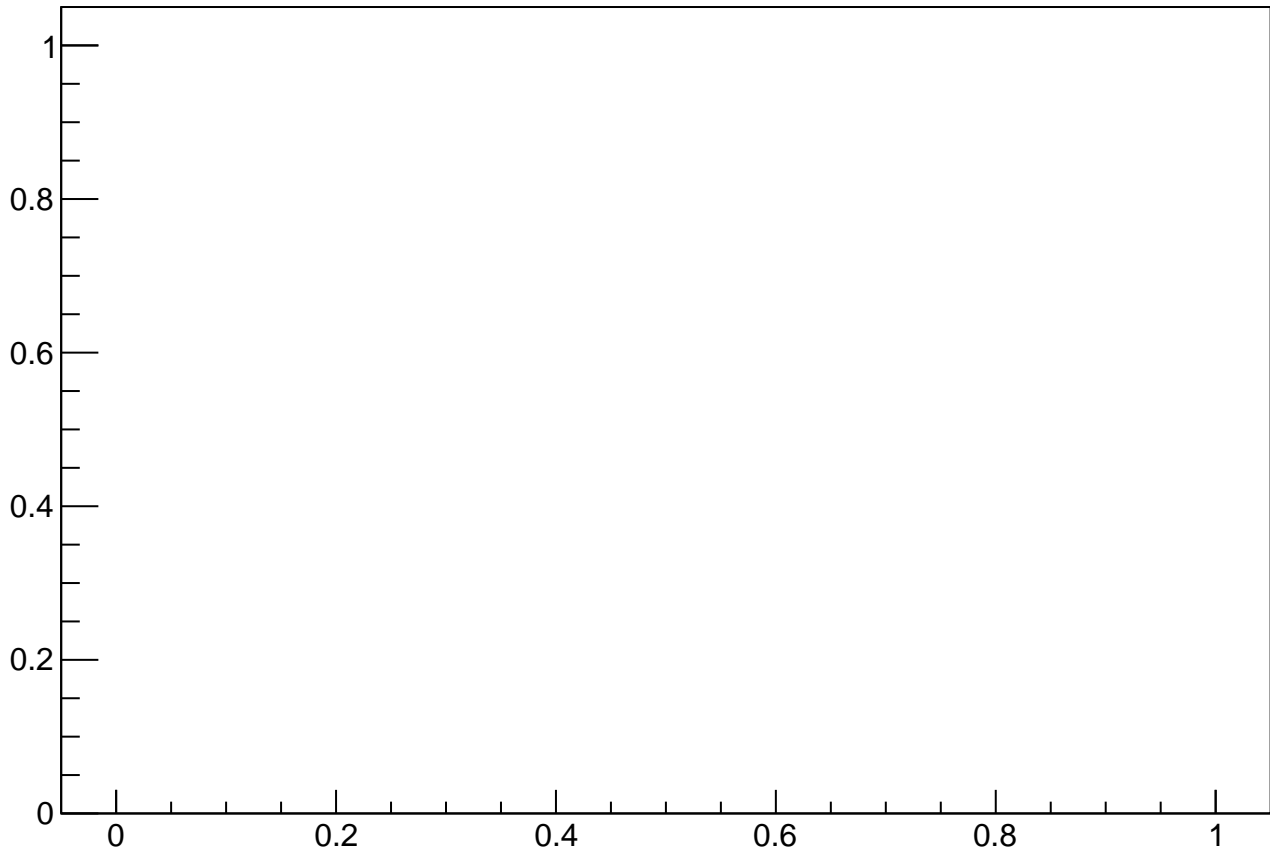
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_sam8\_mean vs Slug, Sign Corrected



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

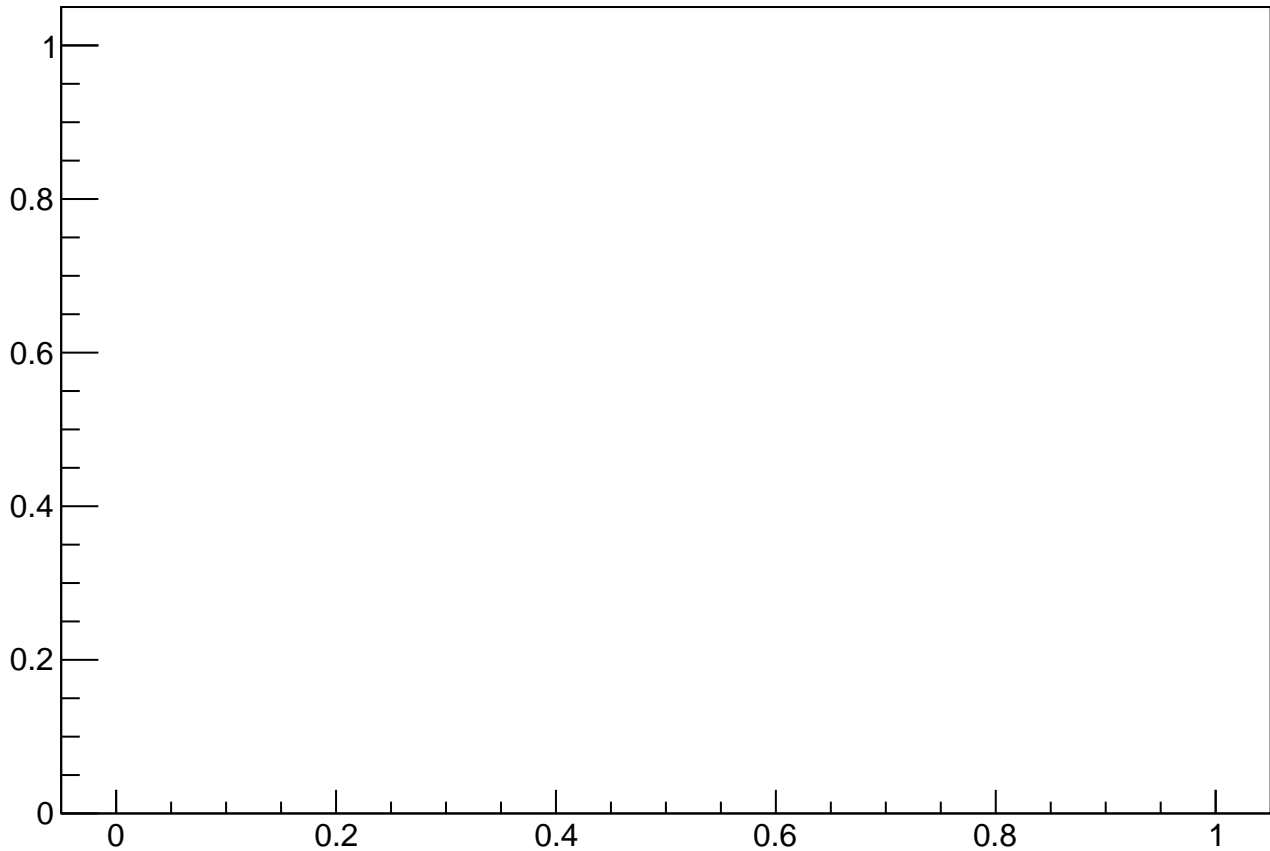
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam8\_rms vs Slug, Sign Corrected



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

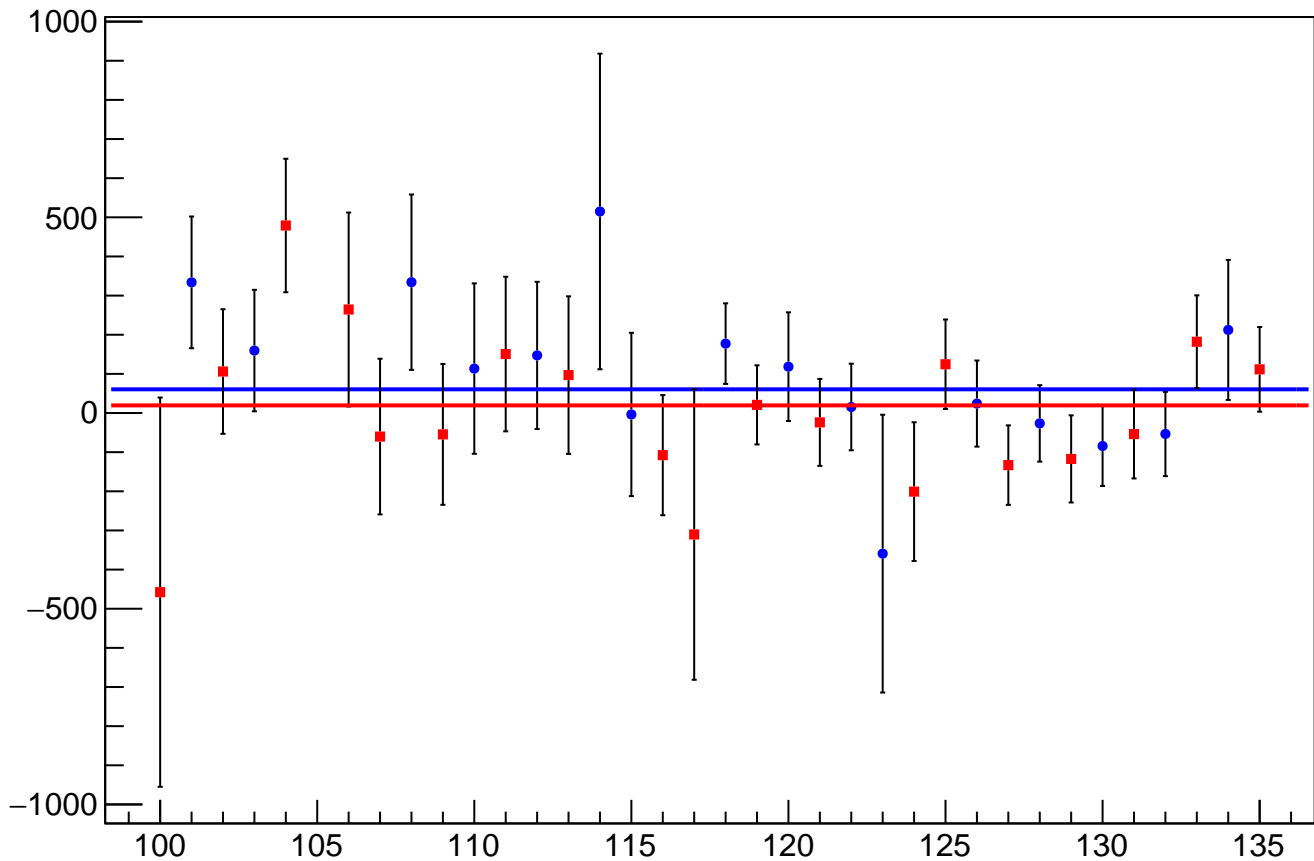
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 60.569+/-35.092  $\chi^2$ /NDF: 14.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 19.488+/-32.448  $\chi^2$ /NDF: 21.2/18

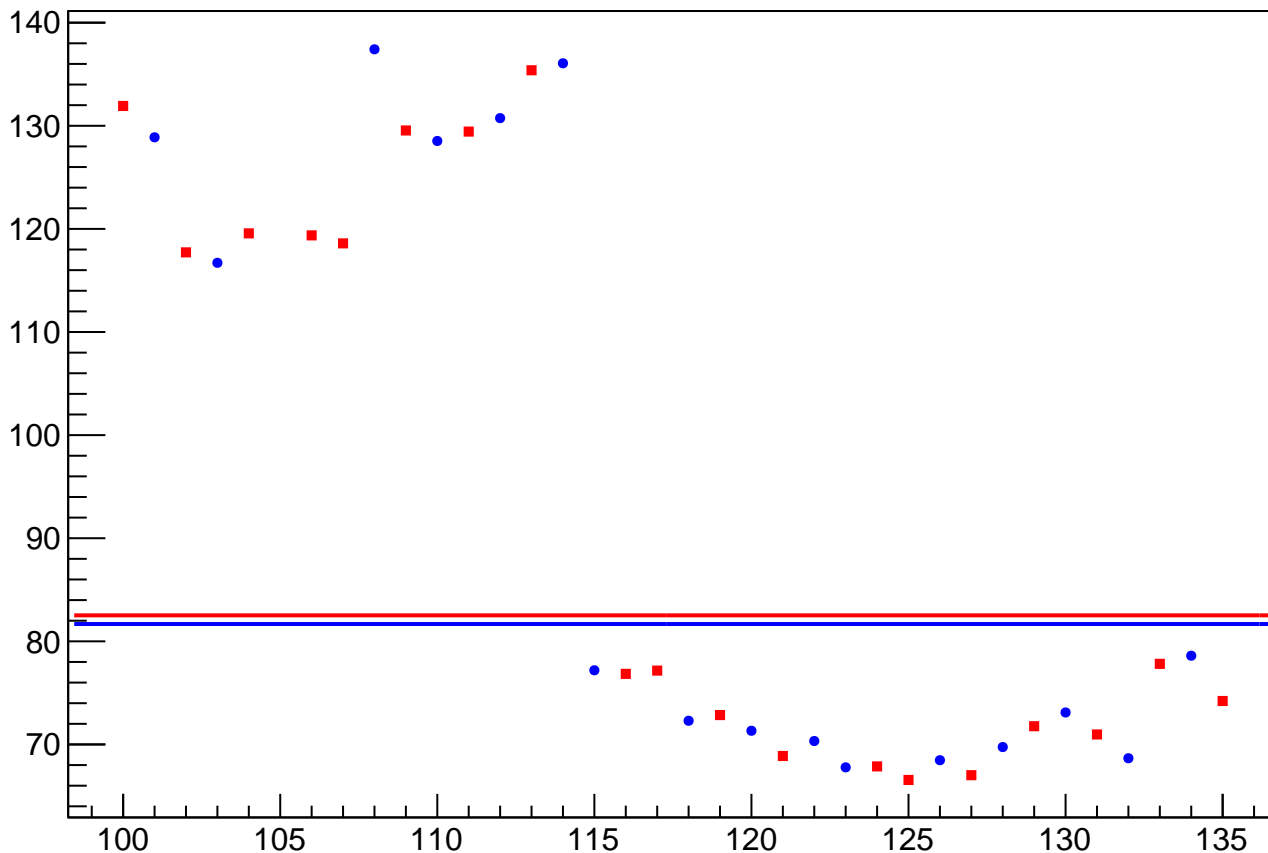
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

60.569+/-35.092  $\chi^2$ /NDF: 14.0/15

38.423+/-23.824  $\chi^2$ /NDF: 35.9/34

19.488+/-32.448  $\chi^2$ /NDF: 21.2/18

# reg\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 81.679 $\pm$ 0.025  $\chi^2$ /NDF: 803871.6/15

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

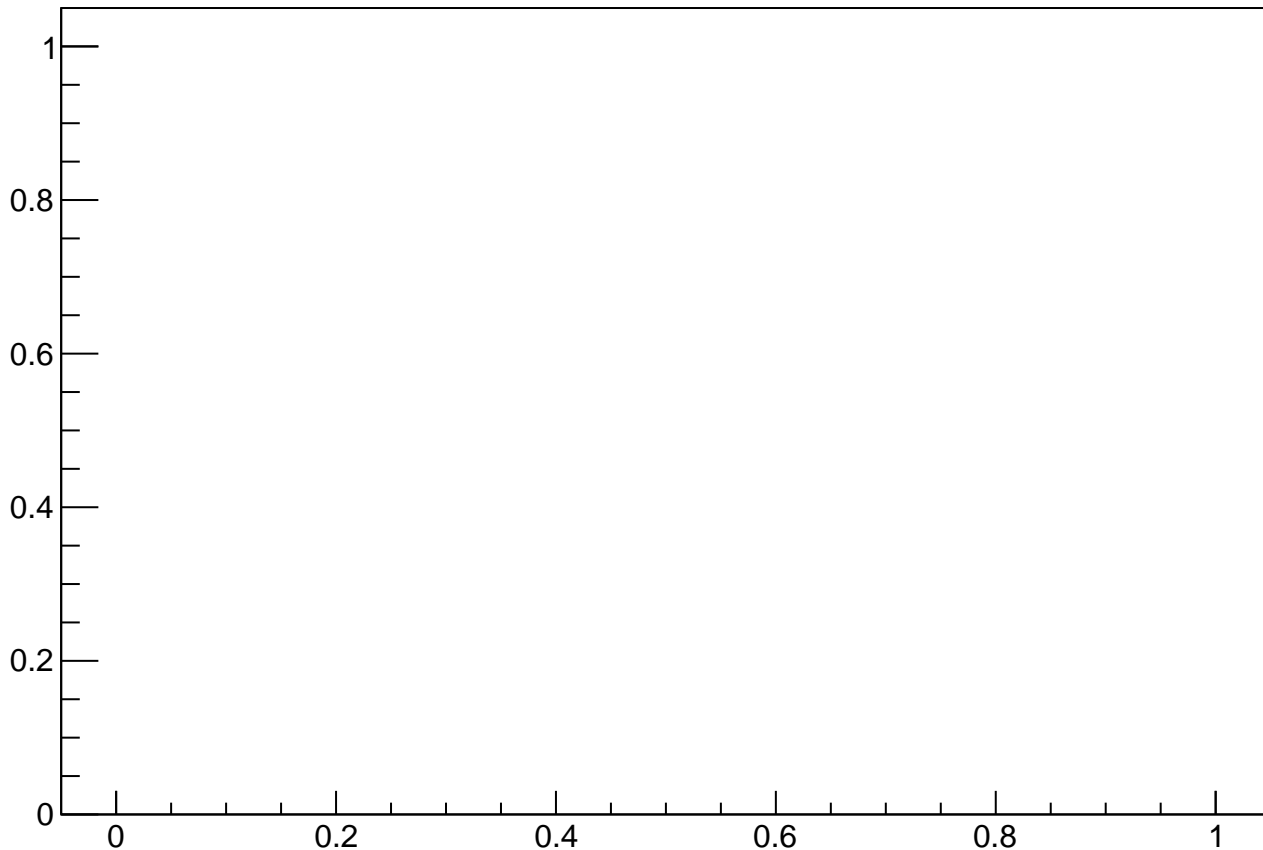
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

81.679 $\pm$ 0.025  $\chi^2$ /NDF: 803871.6/15

82.134 $\pm$ 0.017  $\chi^2$ /NDF: 1719188.0/34

82.522 $\pm$ 0.023  $\chi^2$ /NDF: 914695.3/18

# asym\_sam1\_correction\_mean vs Slug, Sign Corrected



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

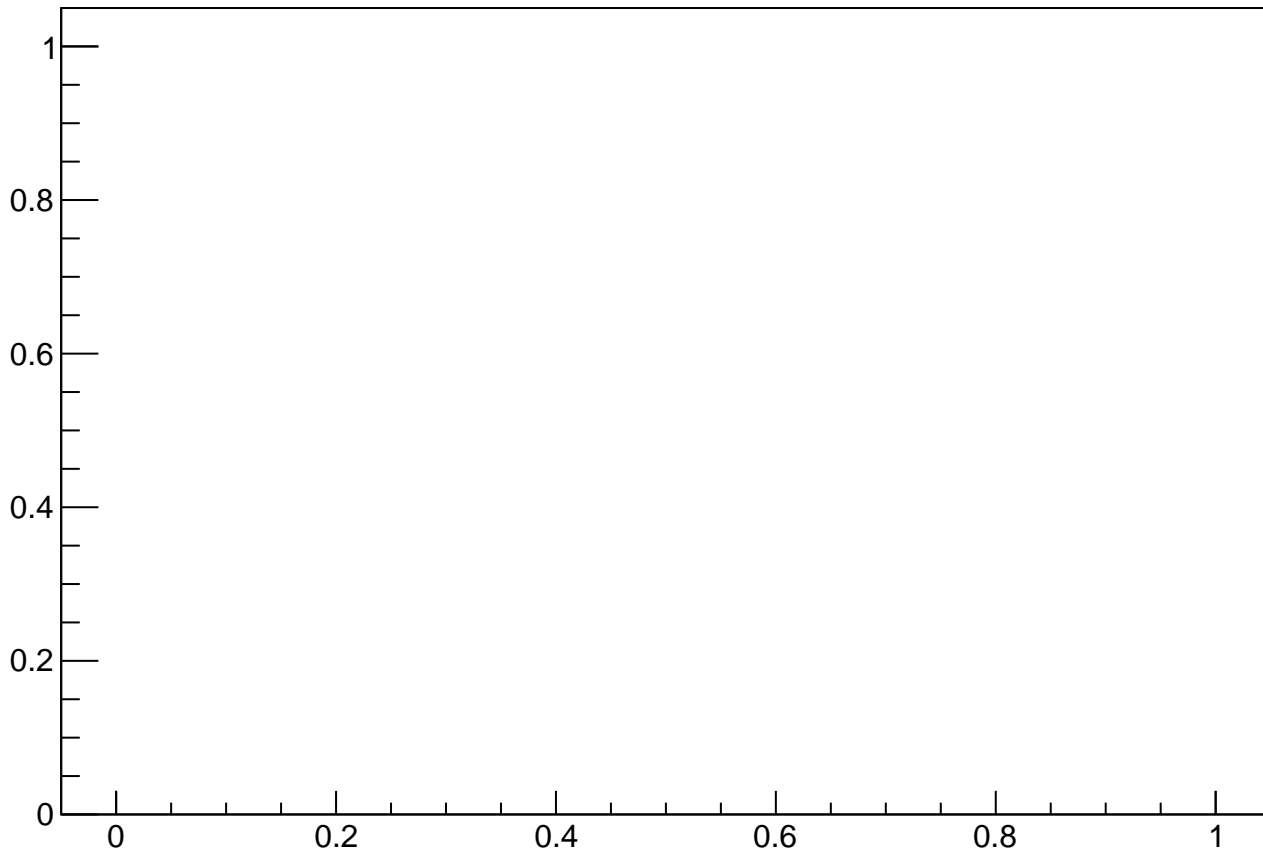
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam1\_correction\_rms vs Slug, Sign Corrected



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

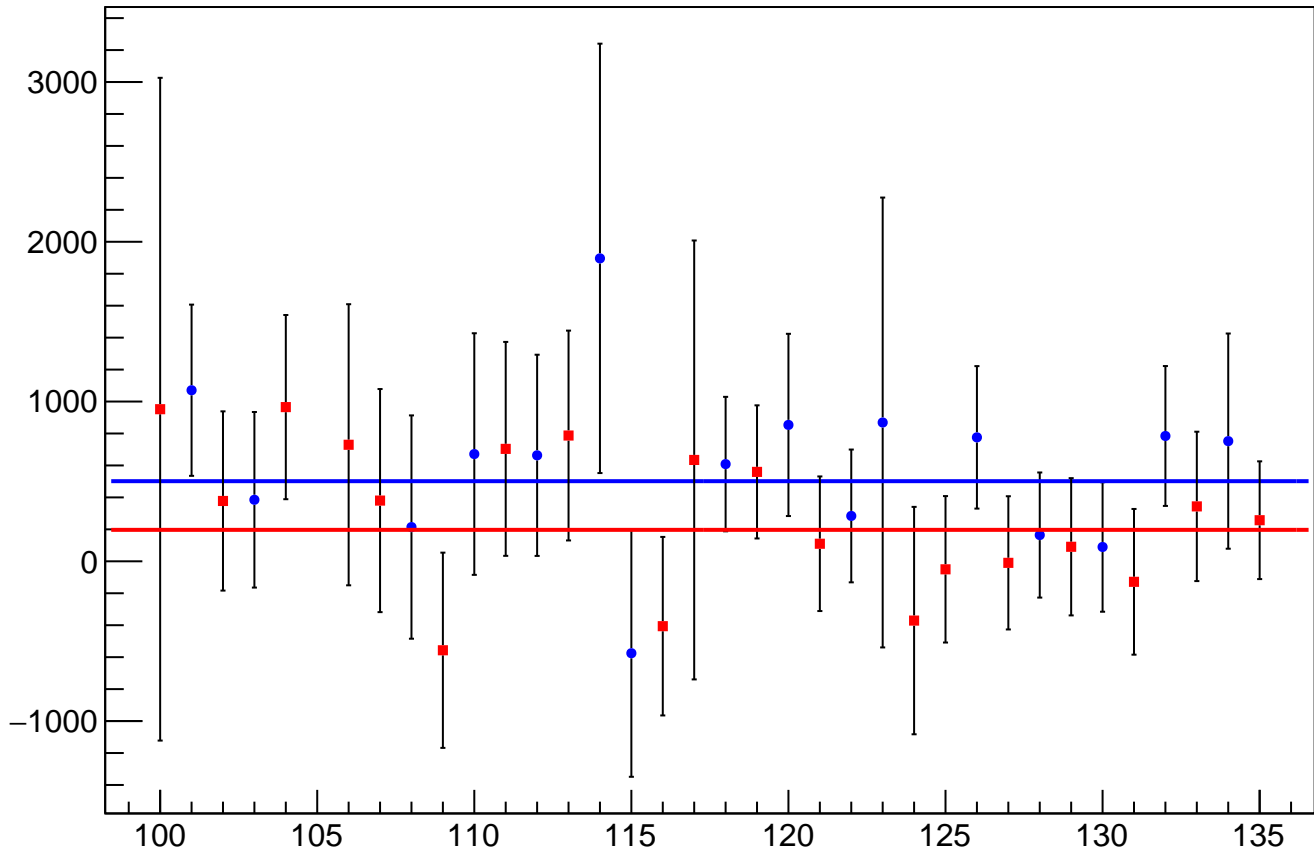
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 501.538+/-134.337  $\chi^2/\text{NDF}$ : 8.0/15

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

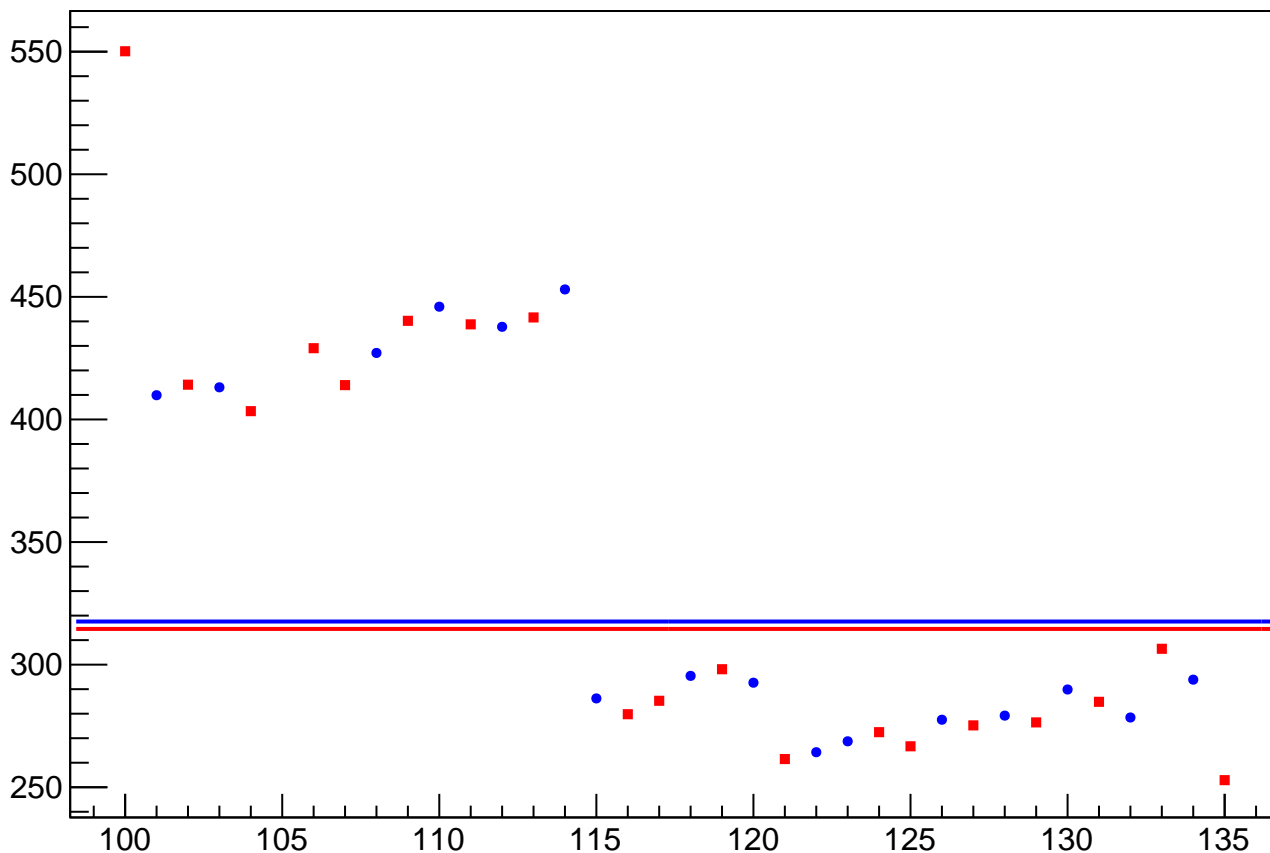
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

501.538+/-134.337  $\chi^2/\text{NDF}$ : 8.0/15

335.032+/-90.467  $\chi^2/\text{NDF}$ : 20.1/34

196.856+/-122.376  $\chi^2/\text{NDF}$ : 9.3/18

# reg\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 317.594+/-0.095  $\chi^2$ /NDF: 430894.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 314.568+/-0.087  $\chi^2$ /NDF: 610060.9/18

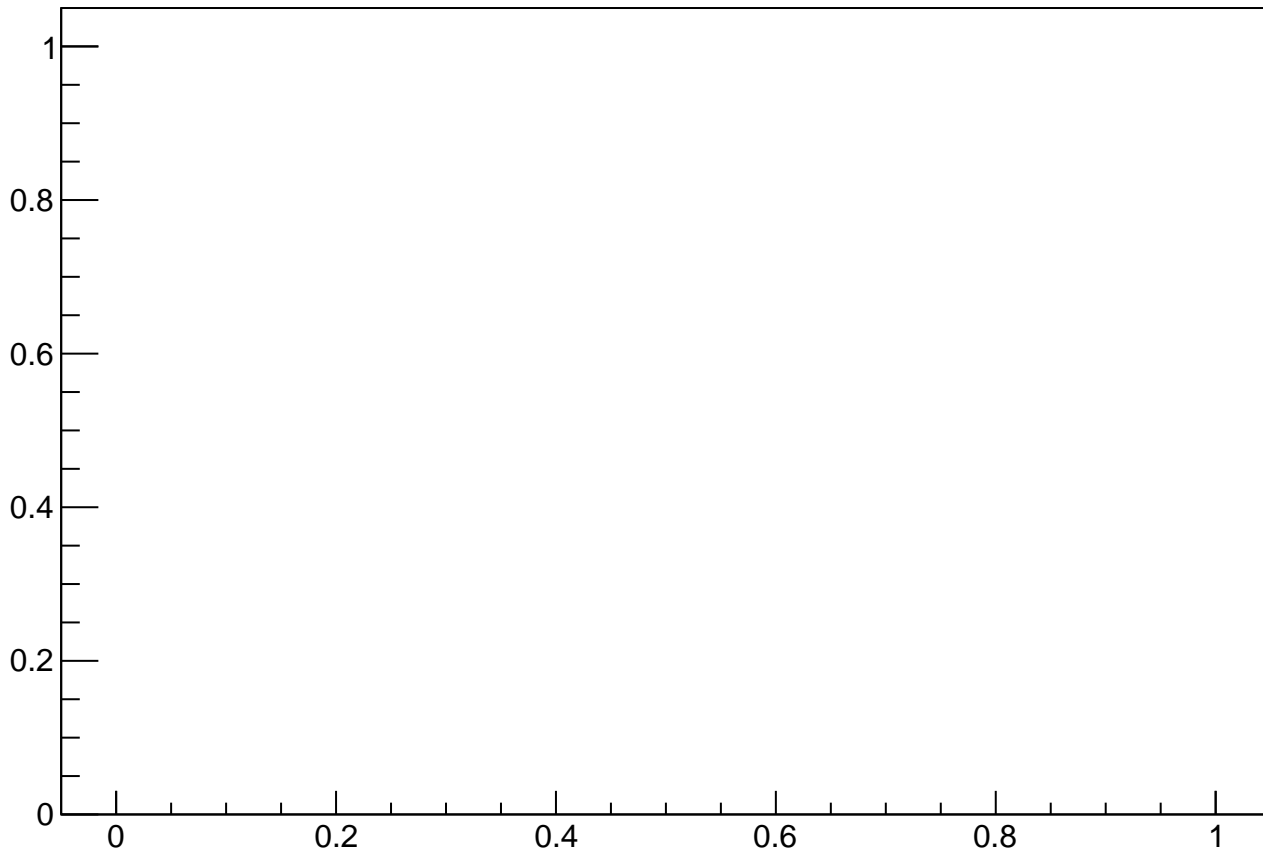
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

317.594+/-0.095  $\chi^2$ /NDF: 430894.9/15

315.941+/-0.064  $\chi^2$ /NDF: 1041510.4/34

314.568+/-0.087  $\chi^2$ /NDF: 610060.9/18

# asym\_sam2\_correction\_mean vs Slug, Sign Corrected



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

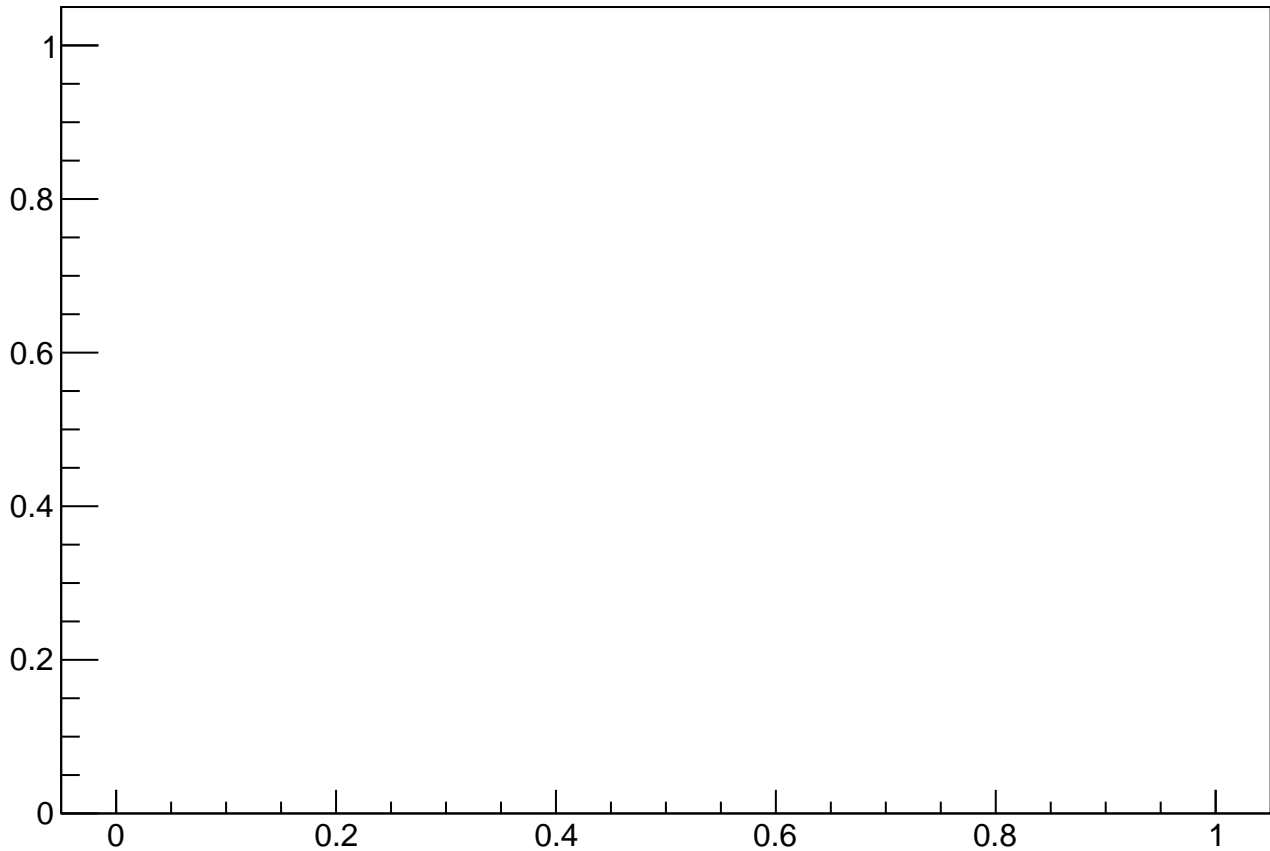
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam2\_correction\_rms vs Slug, Sign Corrected



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

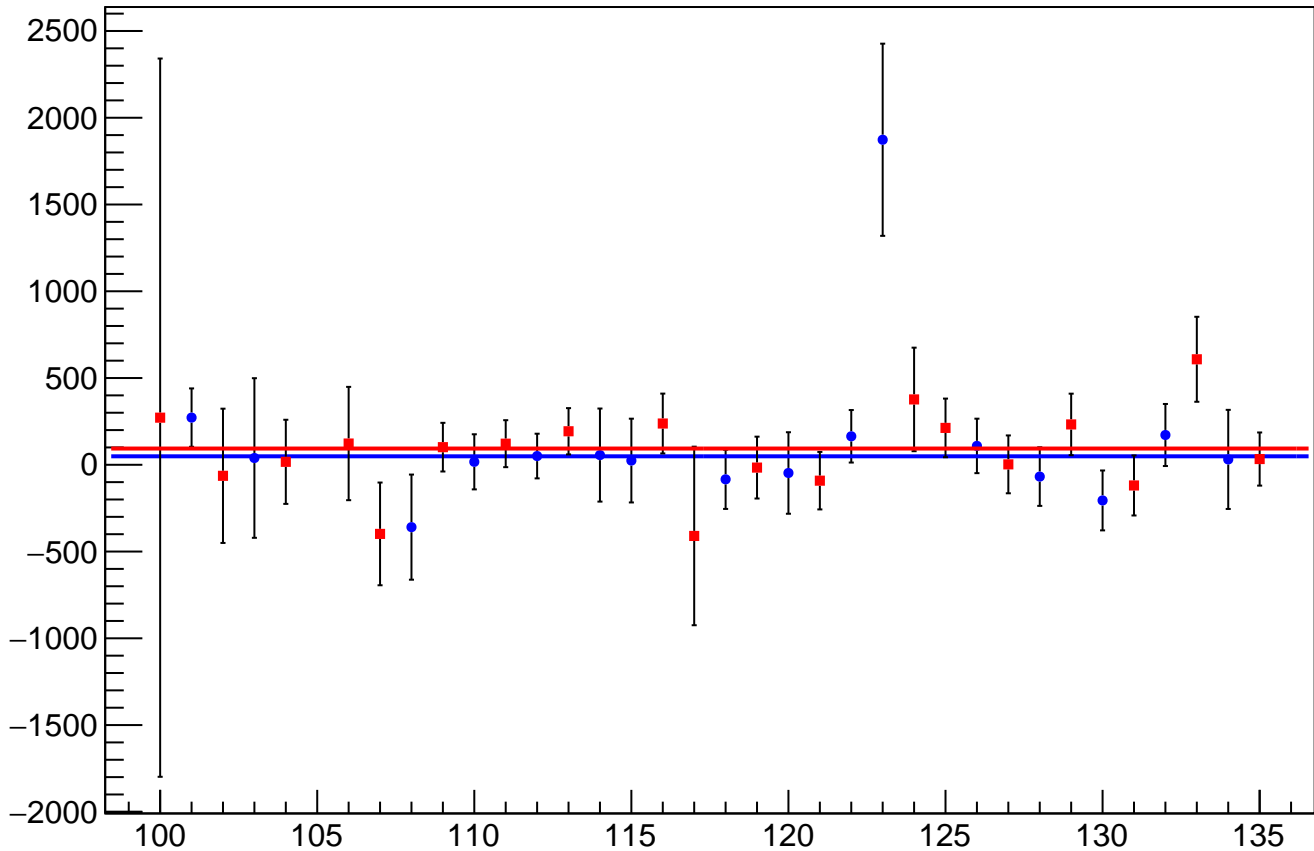
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 48.889+/-47.990  $\chi^2$ /NDF: 19.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 93.622+/-43.913  $\chi^2$ /NDF: 15.3/18

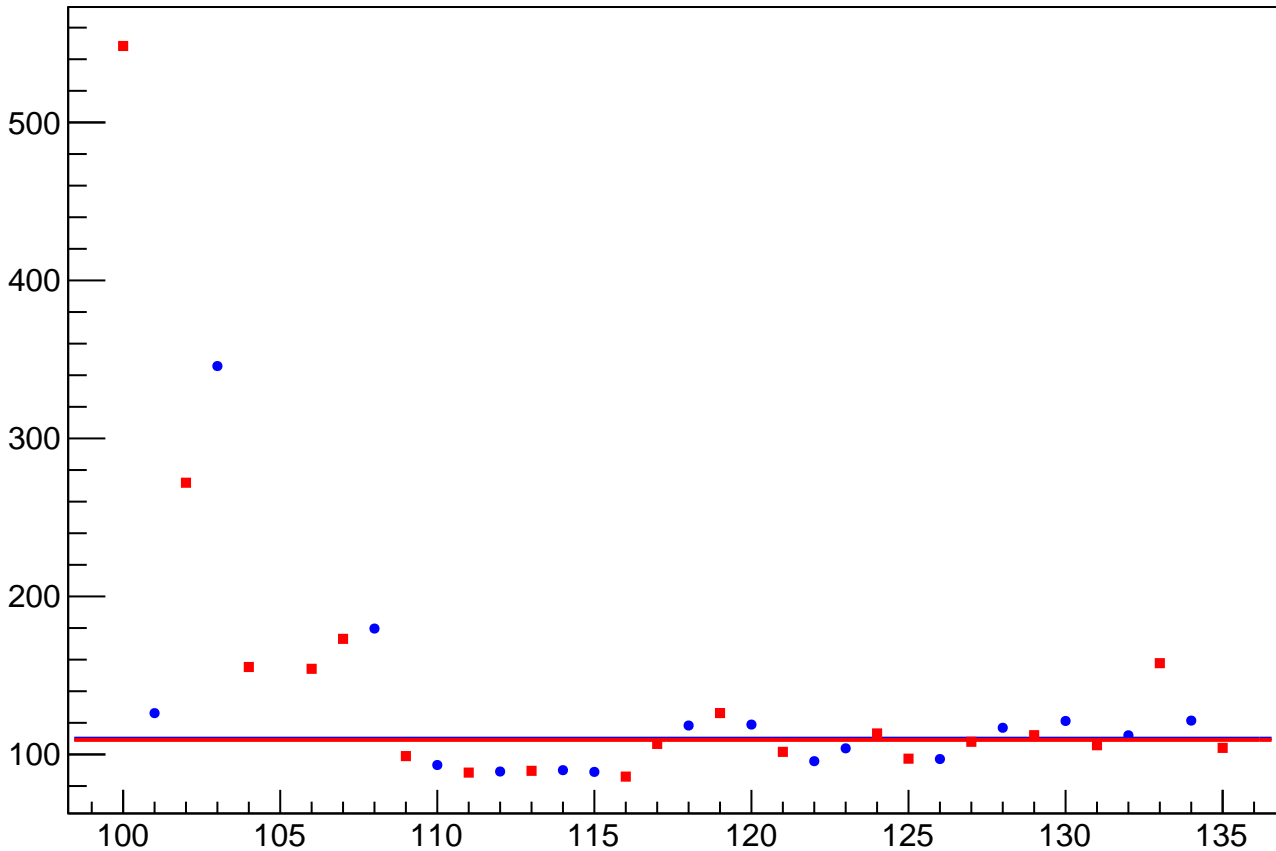
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

48.889+/-47.990  $\chi^2$ /NDF: 19.1/15

73.236+/-32.397  $\chi^2$ /NDF: 34.9/34

93.622+/-43.913  $\chi^2$ /NDF: 15.3/18

# reg\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 109.976+/-0.034  $\chi^2/\text{NDF}$ : 804911.4/15

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

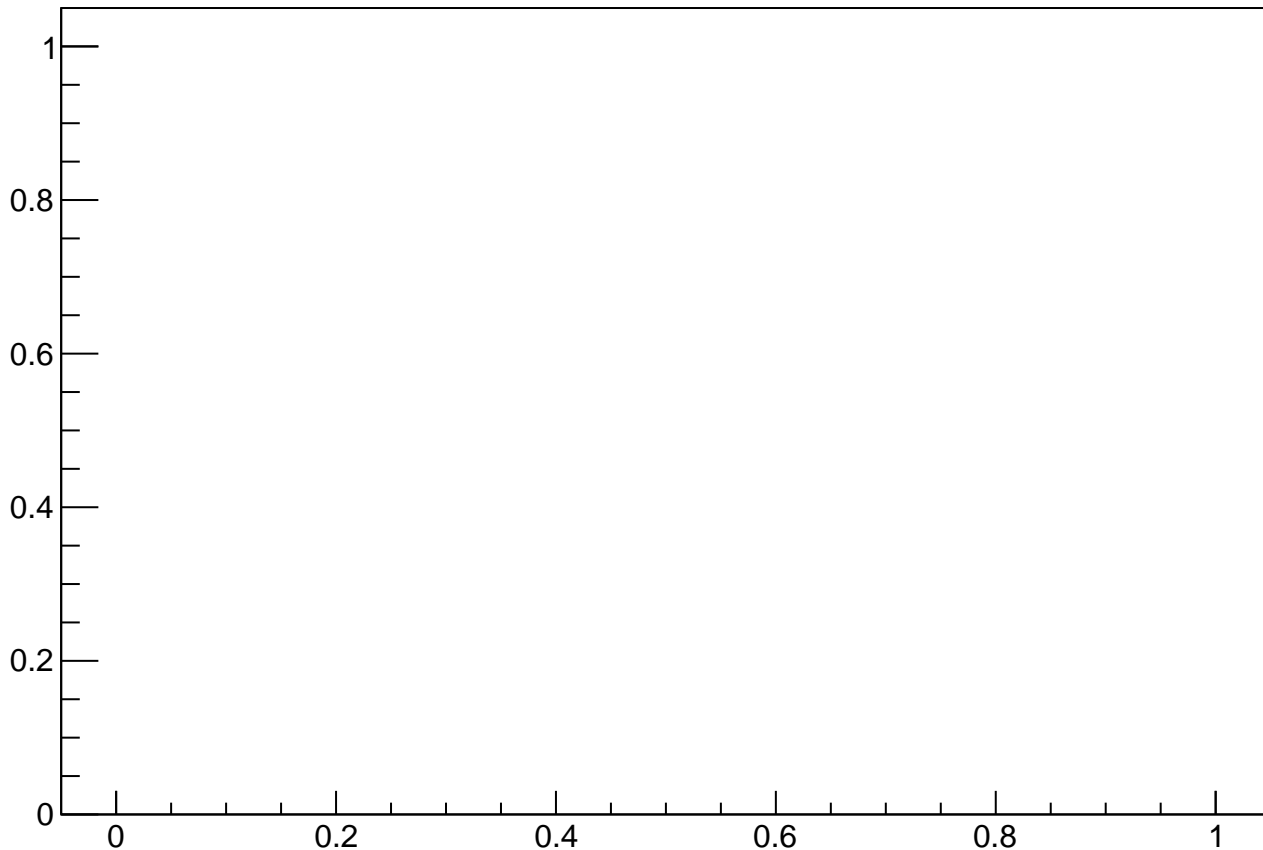
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

109.976+/-0.034  $\chi^2/\text{NDF}$ : 804911.4/15

109.559+/-0.023  $\chi^2/\text{NDF}$ : 1704745.6/34

109.210+/-0.031  $\chi^2/\text{NDF}$ : 899556.8/18

# asym\_sam3\_correction\_mean vs Slug, Sign Corrected



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

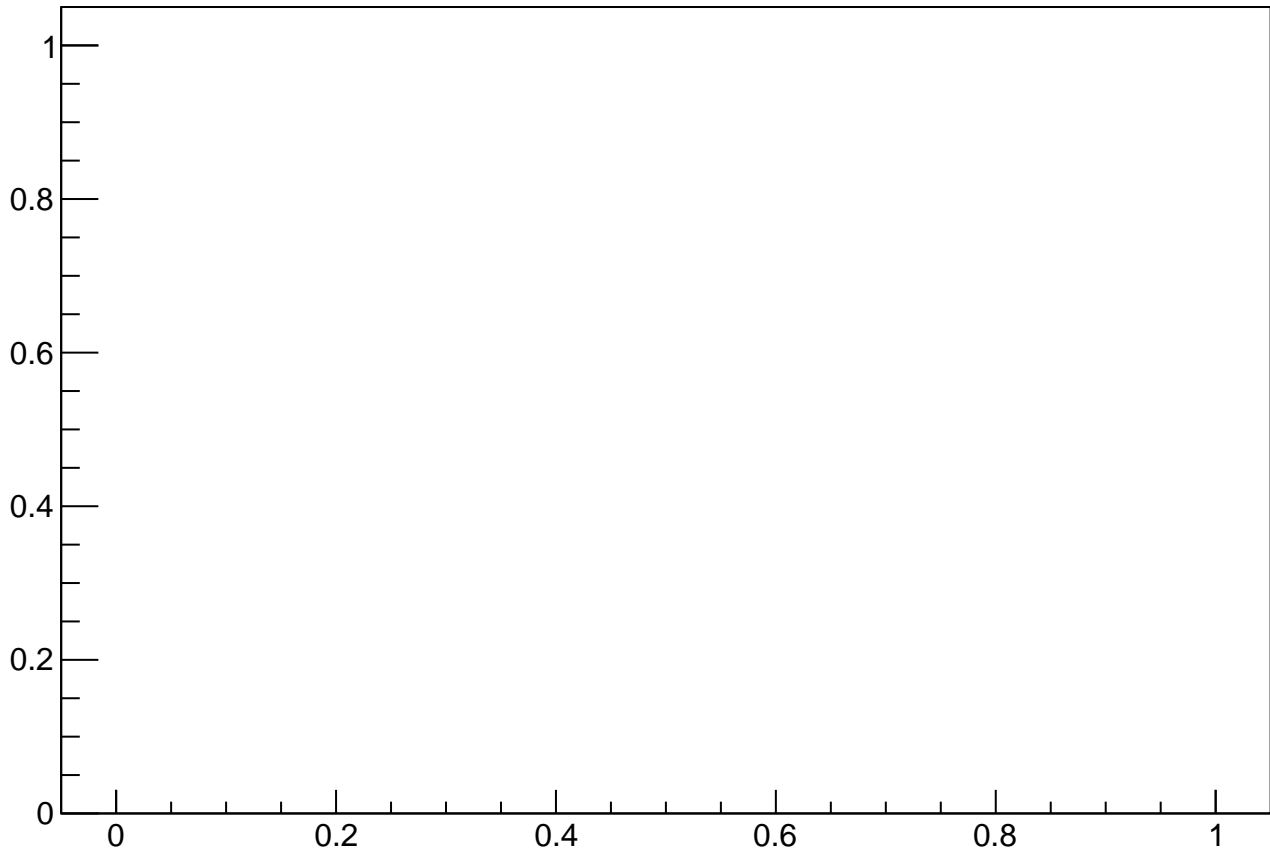
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam3\_correction\_rms vs Slug, Sign Corrected



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

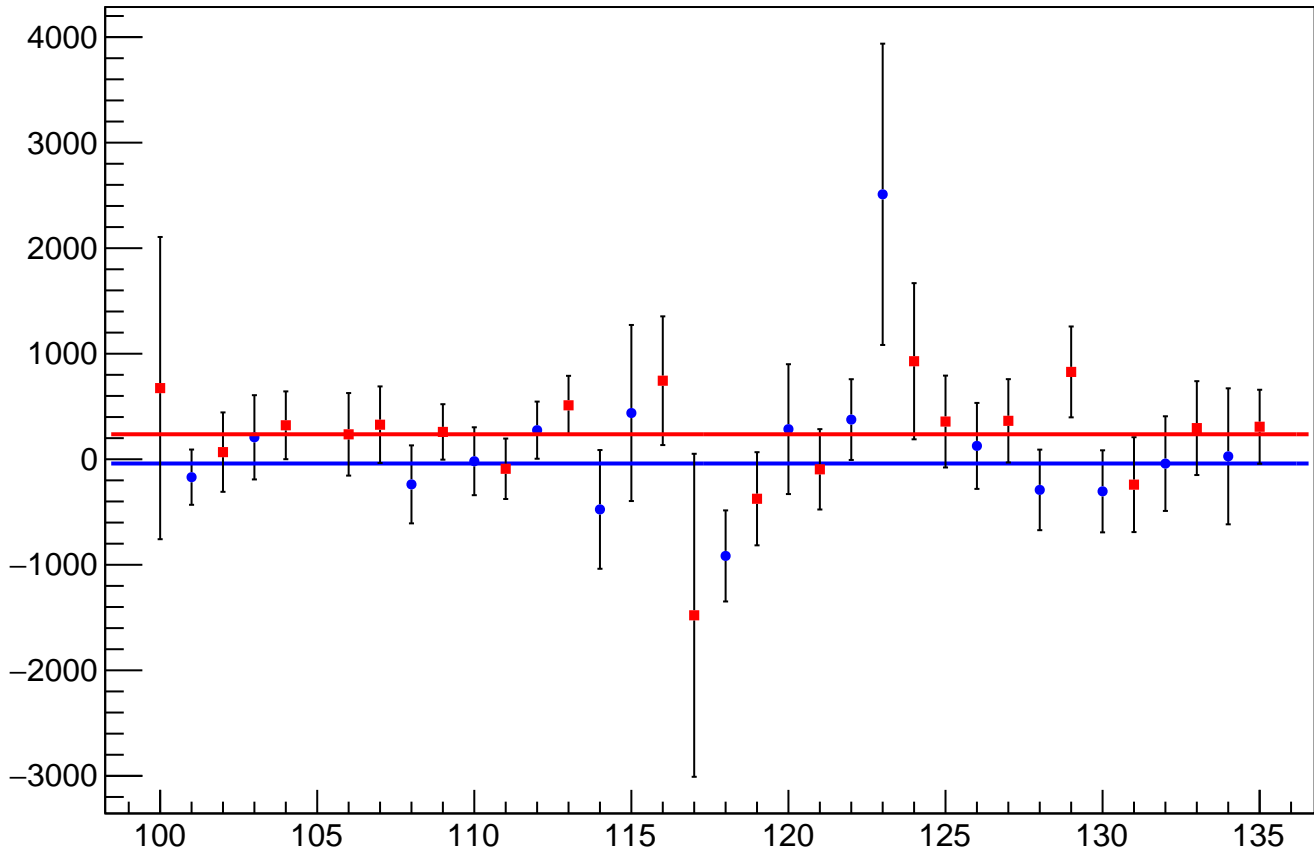
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In:  $-40.230 \pm 100.853$   $\chi^2/\text{NDF}: 13.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $236.737 \pm 90.137$   $\chi^2/\text{NDF}: 11.5/18$

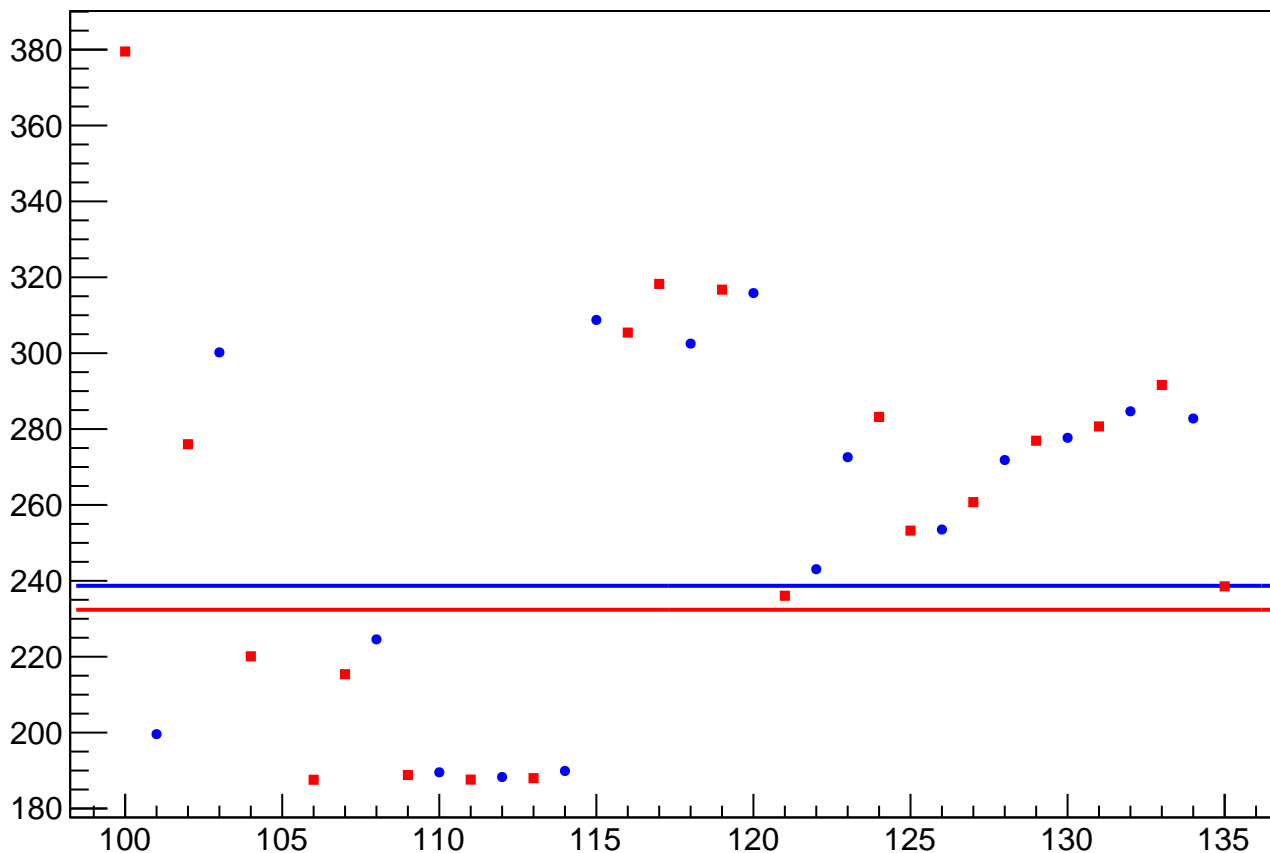
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-40.230 \pm 100.853$   $\chi^2/\text{NDF}: 13.1/15$

$113.744 \pm 67.207$   $\chi^2/\text{NDF}: 28.7/34$

$236.737 \pm 90.137$   $\chi^2/\text{NDF}: 11.5/18$

# reg\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 238.686+/-0.071  $\chi^2/\text{NDF}$ : 385012.0/15

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

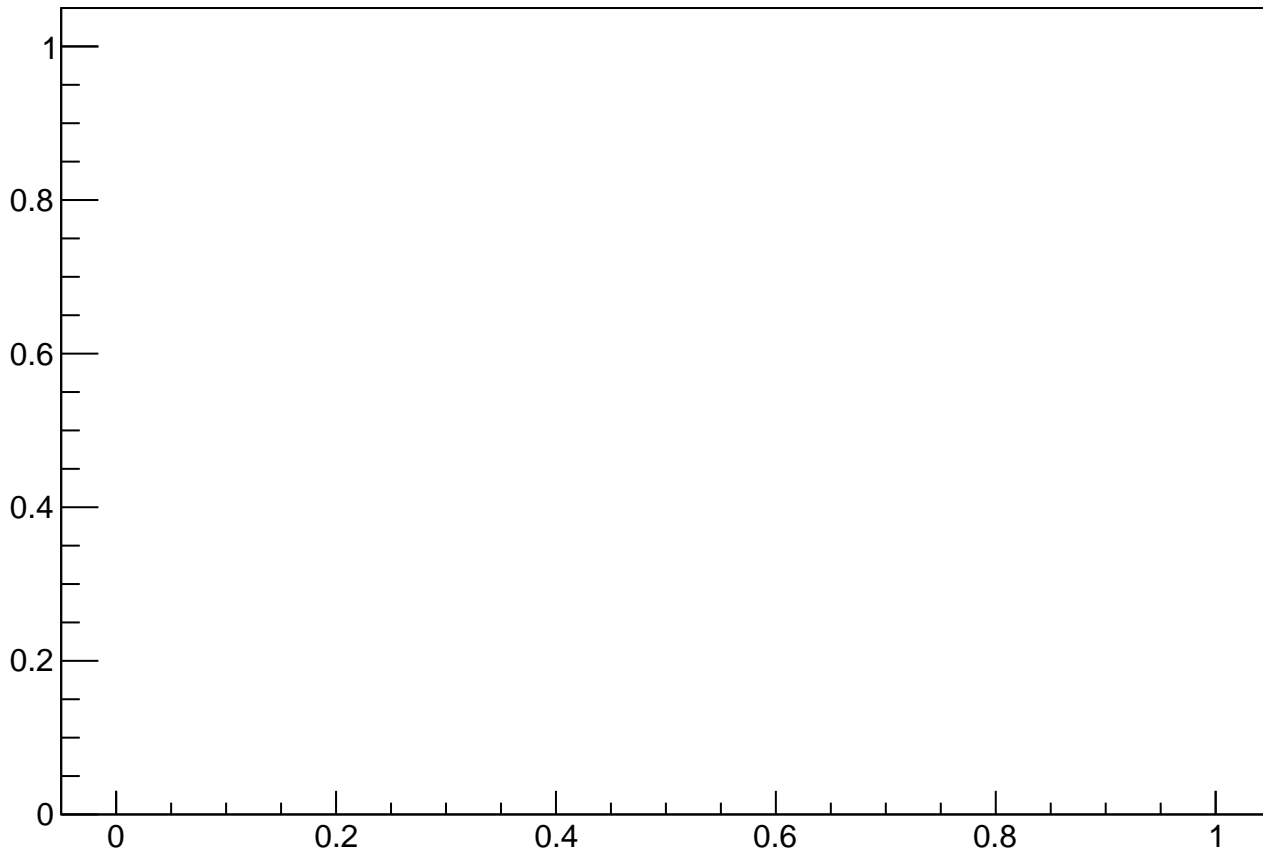
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

238.686+/-0.071  $\chi^2/\text{NDF}$ : 385012.0/15

235.176+/-0.048  $\chi^2/\text{NDF}$ : 838472.0/34

232.372+/-0.064  $\chi^2/\text{NDF}$ : 449103.0/18

# asym\_sam4\_correction\_mean vs Slug, Sign Corrected



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

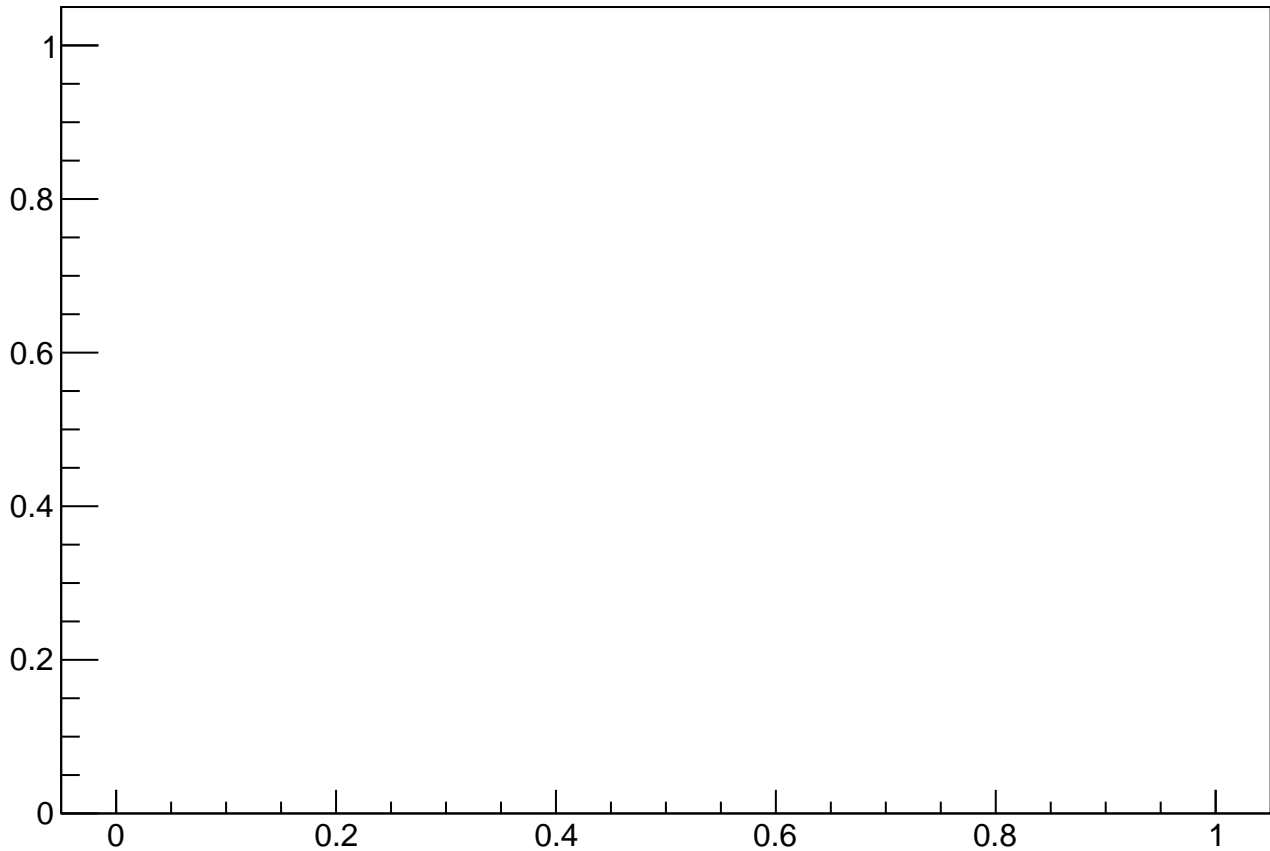
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam4\_correction\_rms vs Slug, Sign Corrected



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

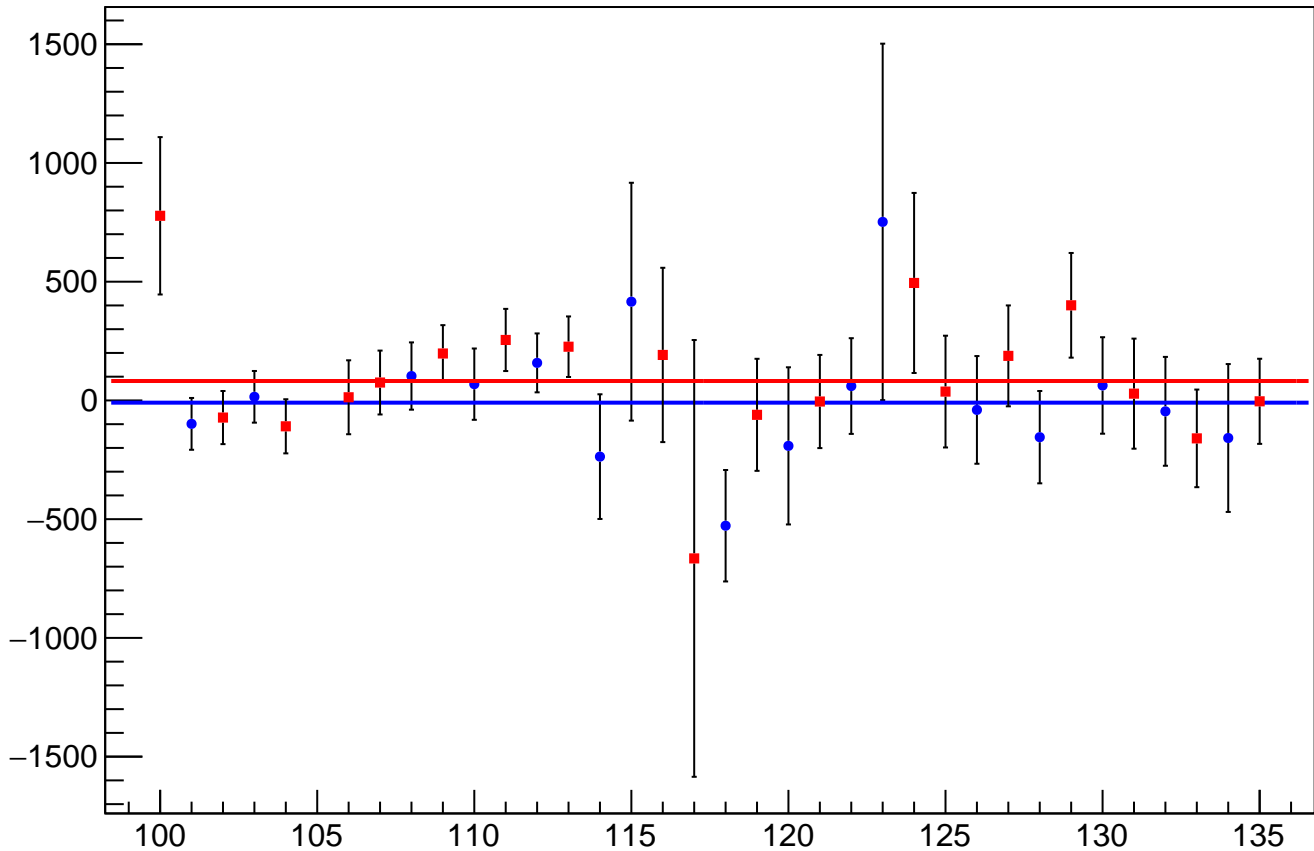
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In:  $-9.398 \pm 44.750$   $\chi^2/\text{NDF}: 12.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $81.797 \pm 39.333$   $\chi^2/\text{NDF}: 19.8/18$

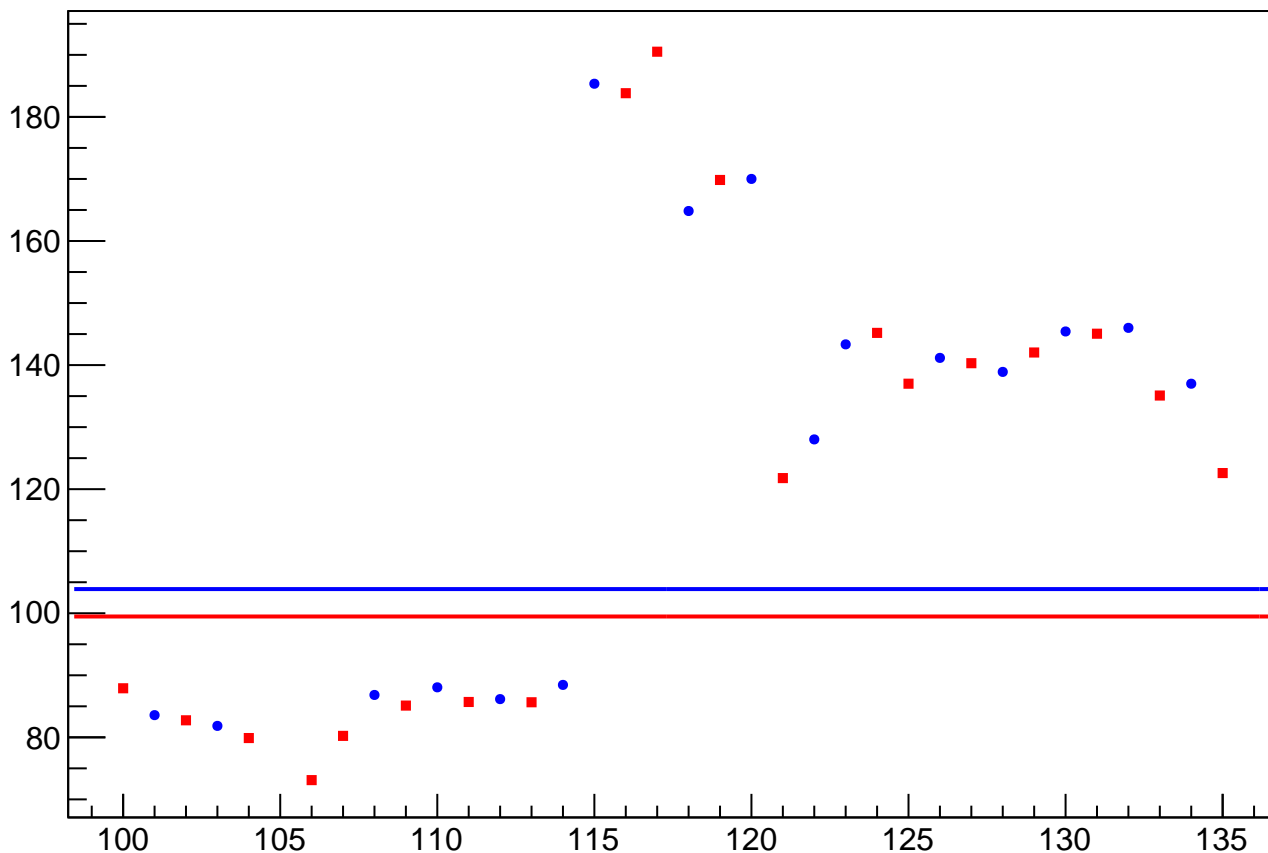
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-9.398 \pm 44.750$   $\chi^2/\text{NDF}: 12.2/15$

$42.050 \pm 29.543$   $\chi^2/\text{NDF}: 34.3/34$

$81.797 \pm 39.333$   $\chi^2/\text{NDF}: 19.8/18$

# reg\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 103.896 $\pm$ 0.032  $\chi^2$ /NDF: 844873.2/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 99.477 $\pm$ 0.028  $\chi^2$ /NDF: 1007255.5/18

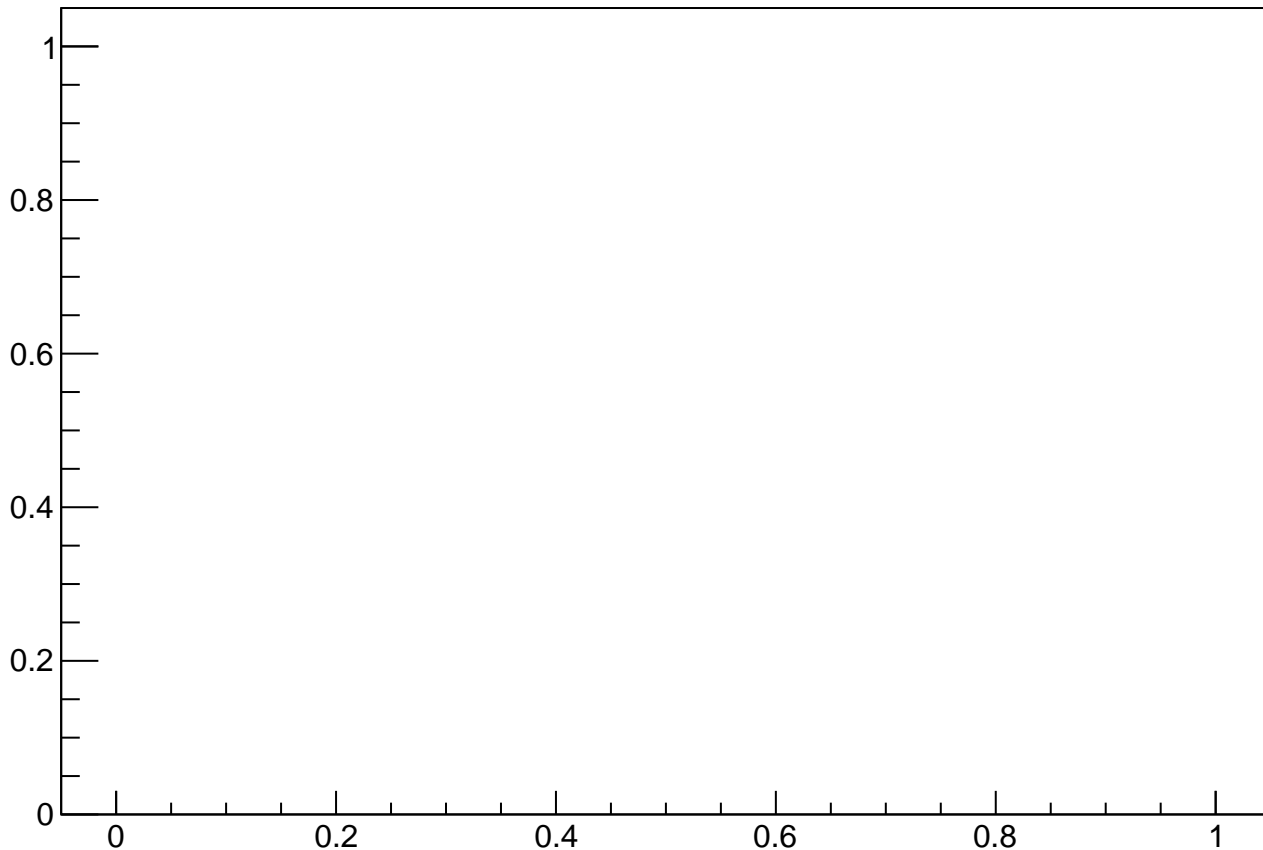
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

103.896 $\pm$ 0.032  $\chi^2$ /NDF: 844873.2/15

101.403 $\pm$ 0.021  $\chi^2$ /NDF: 1863129.0/34

99.477 $\pm$ 0.028  $\chi^2$ /NDF: 1007255.5/18

# asym\_sam5\_correction\_mean vs Slug, Sign Corrected



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

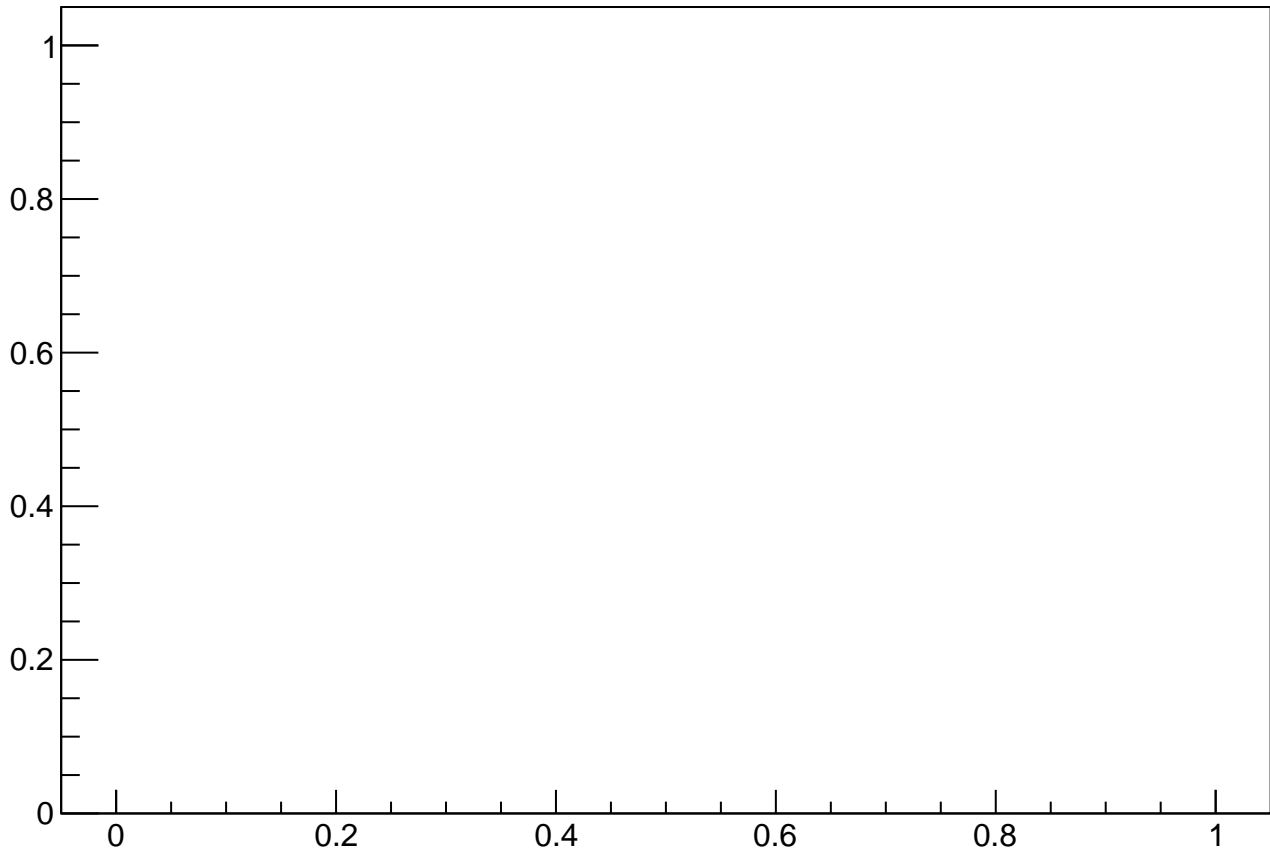
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_correction\_rms vs Slug, Sign Corrected



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

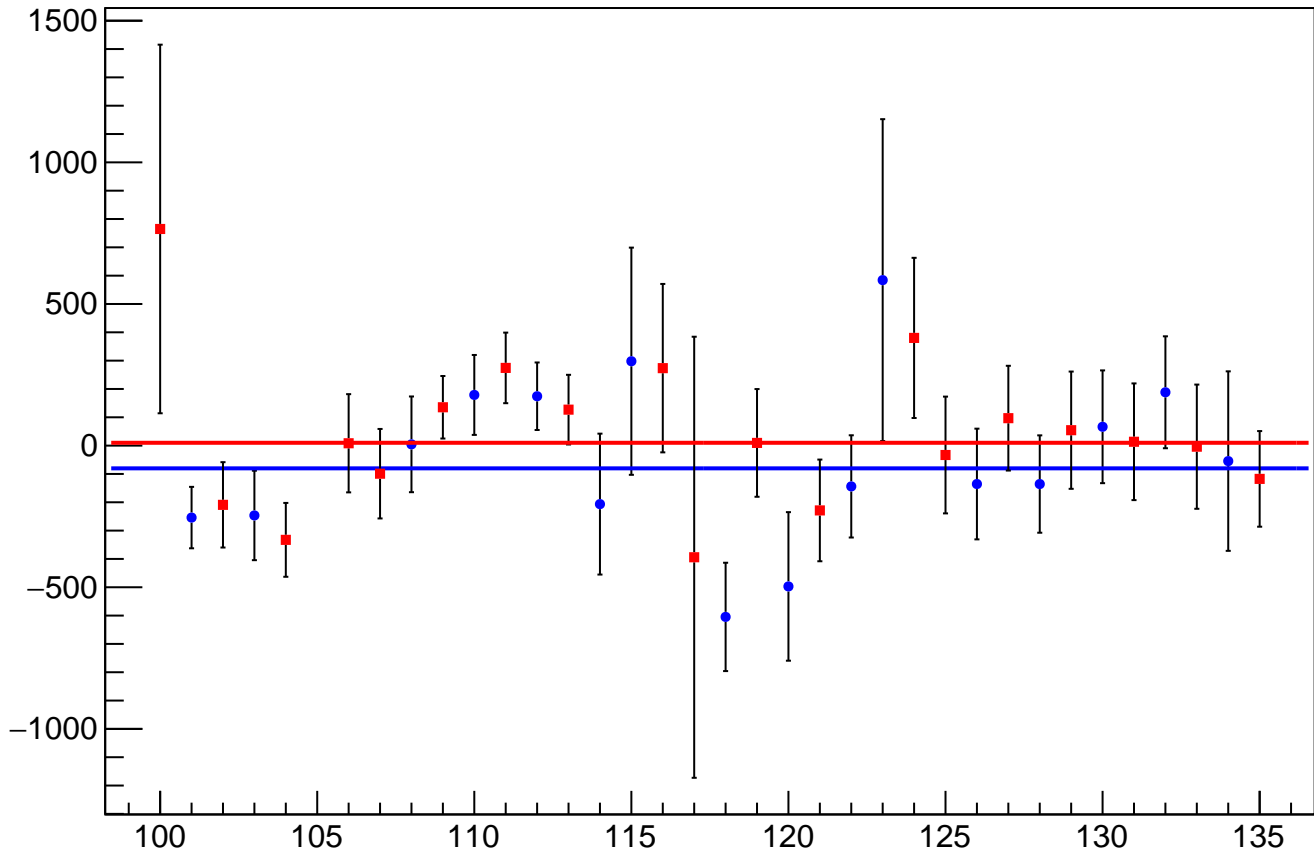
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -80.237+/-44.732  $\chi^2$ /NDF: 27.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 10.021+/-39.809  $\chi^2$ /NDF: 23.0/18

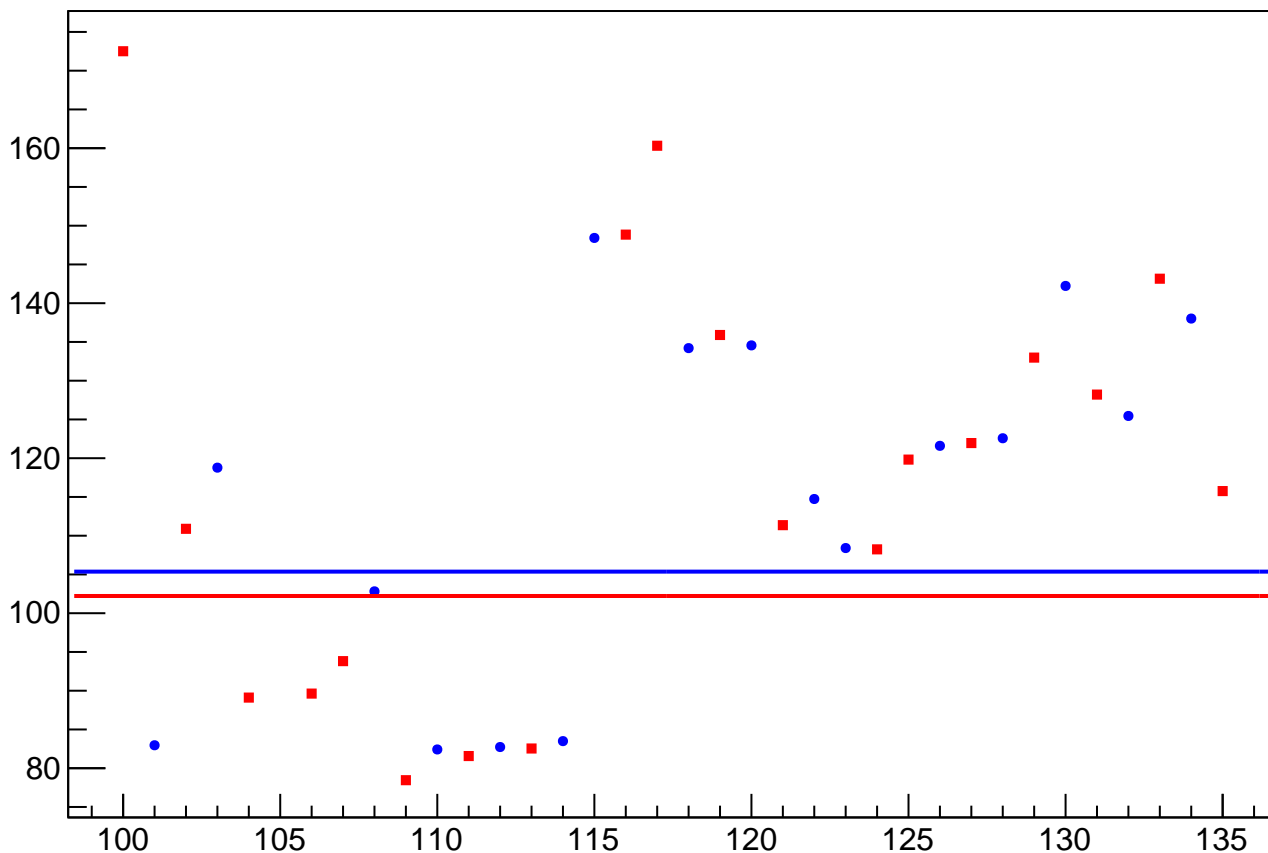
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-80.237+/-44.732  $\chi^2$ /NDF: 27.1/15

-29.870+/-29.738  $\chi^2$ /NDF: 52.4/34

10.021+/-39.809  $\chi^2$ /NDF: 23.0/18

# reg\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 105.366+/-0.032  $\chi^2/\text{NDF}$ : 483891.9/15

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

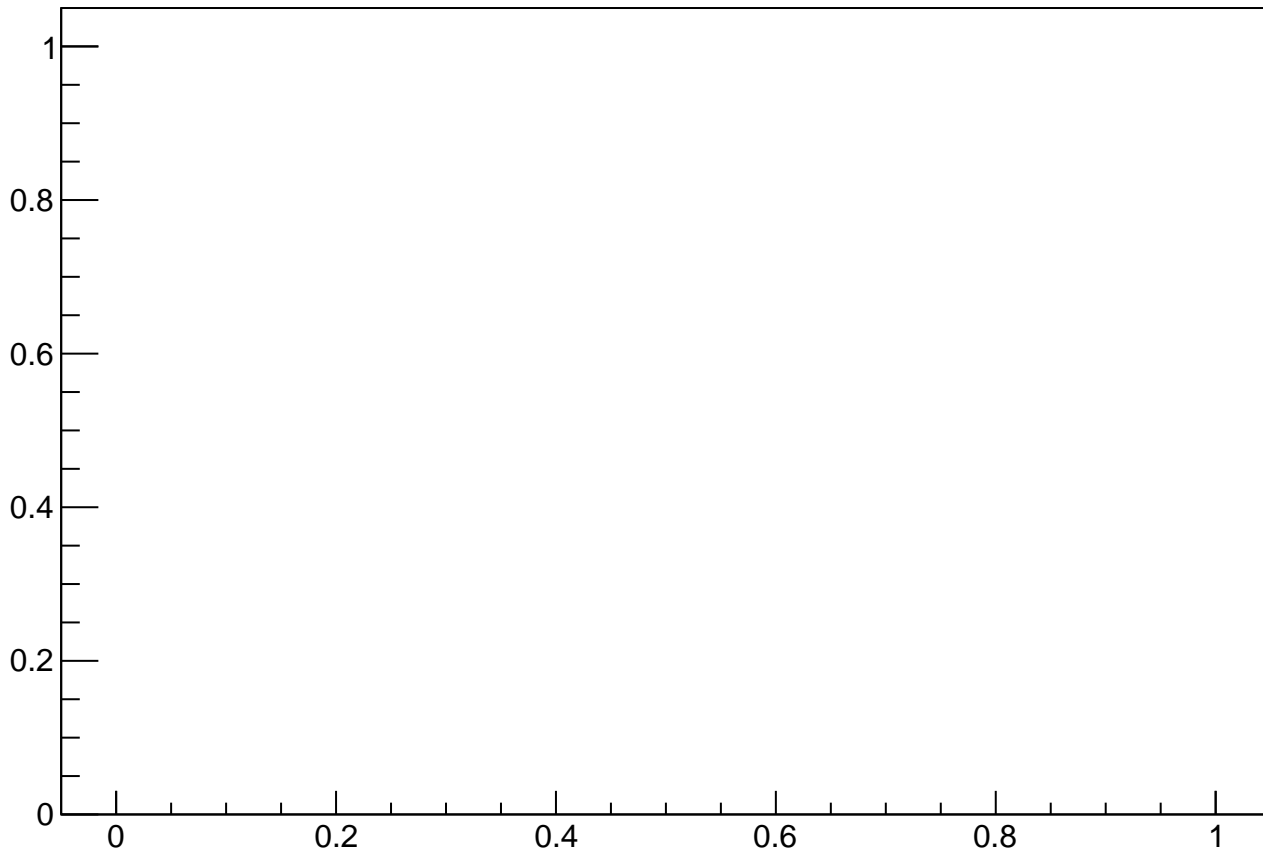
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

105.366+/-0.032  $\chi^2/\text{NDF}$ : 483891.9/15

103.611+/-0.021  $\chi^2/\text{NDF}$ : 1079816.3/34

102.222+/-0.028  $\chi^2/\text{NDF}$ : 590412.1/18

# asym\_sam6\_correction\_mean vs Slug, Sign Corrected



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

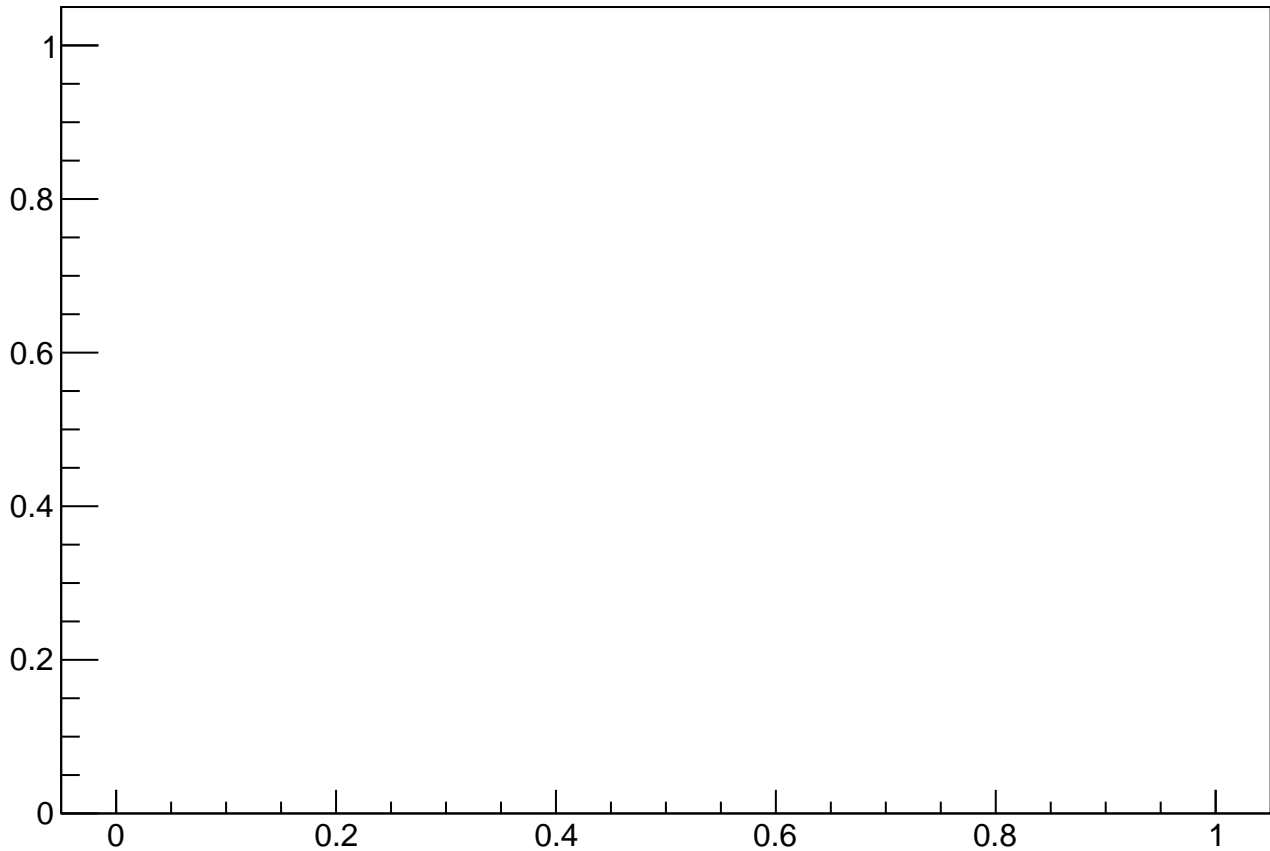
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam6\_correction\_rms vs Slug, Sign Corrected



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

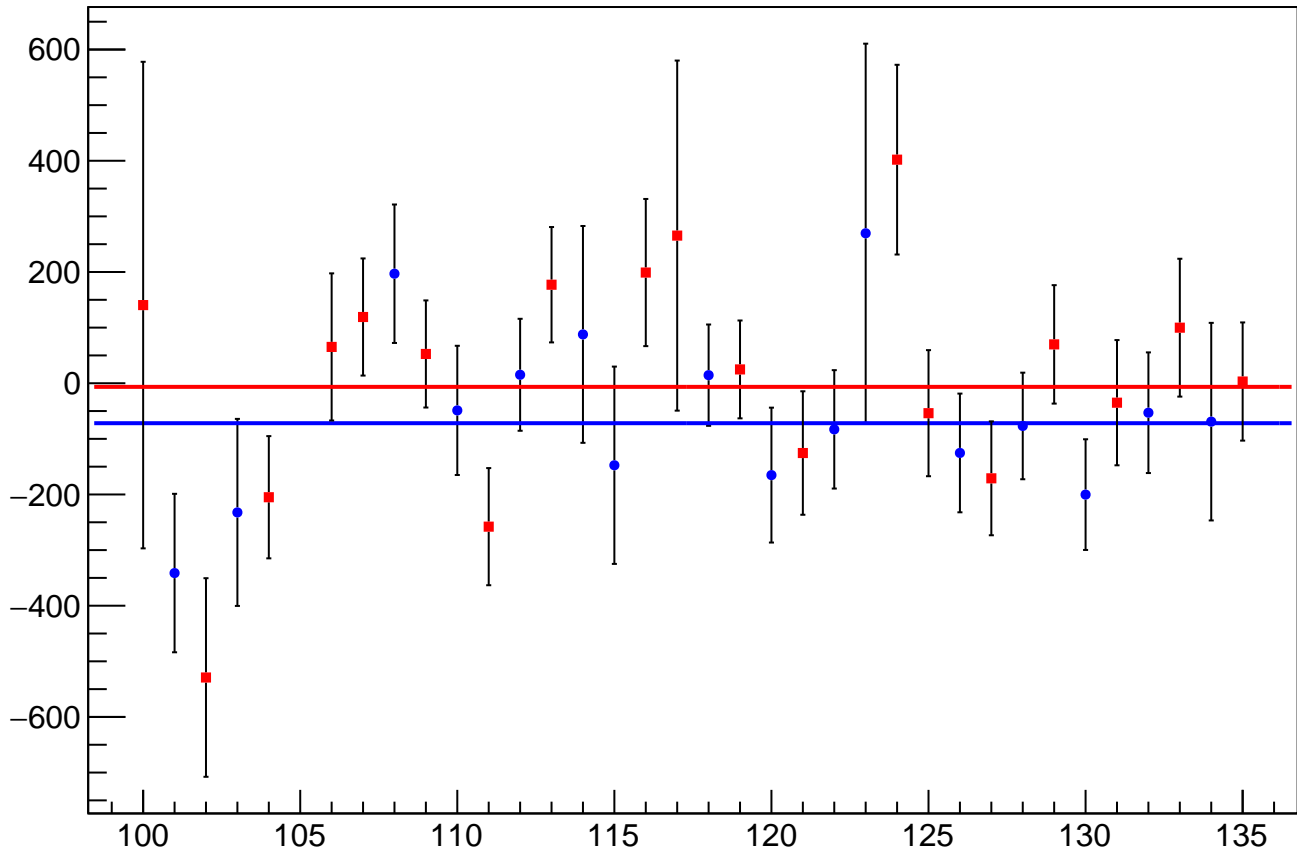
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In:  $-71.851 \pm 30.430$   $\chi^2/\text{NDF}: 15.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-6.523 \pm 27.079$   $\chi^2/\text{NDF}: 37.1/18$

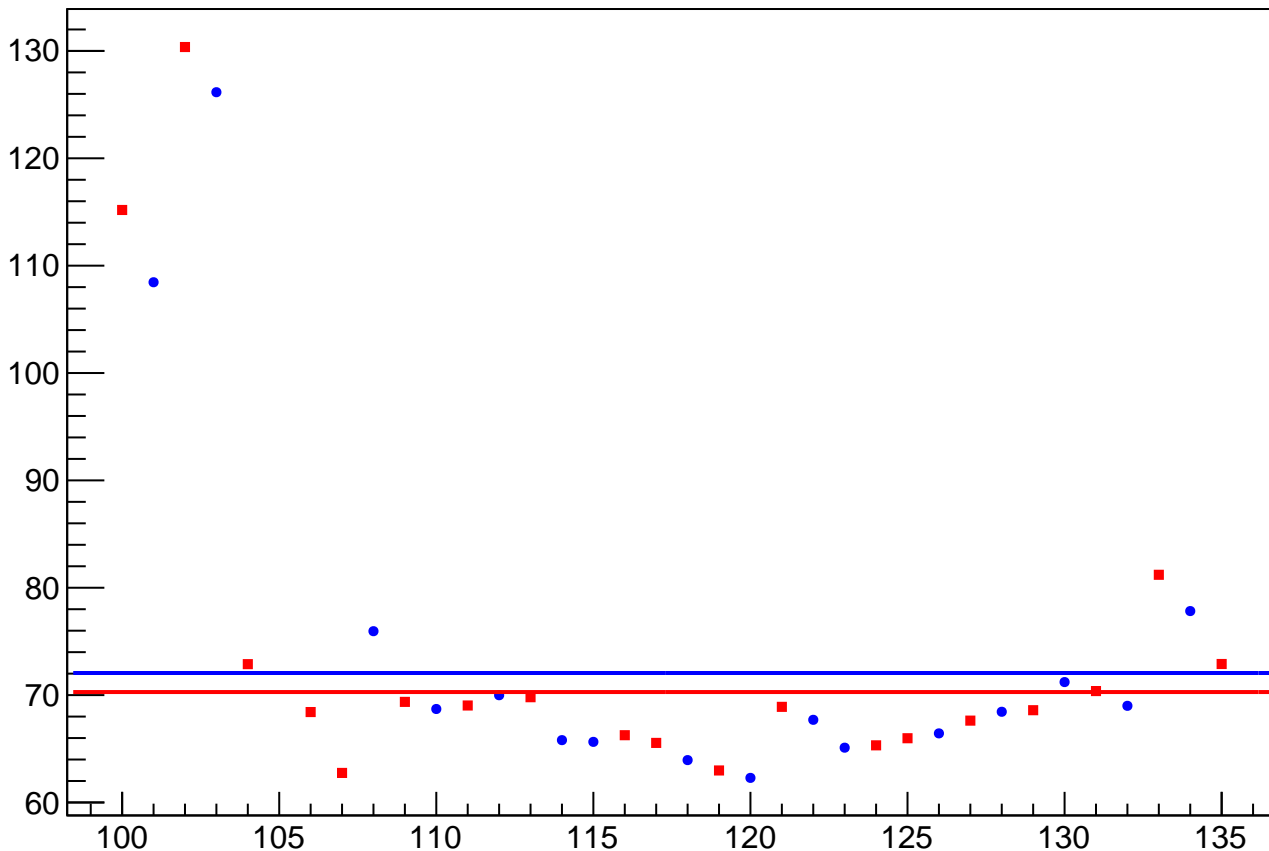
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-71.851 \pm 30.430$   $\chi^2/\text{NDF}: 15.2/15$

$-35.394 \pm 20.229$   $\chi^2/\text{NDF}: 54.9/34$

$-6.523 \pm 27.079$   $\chi^2/\text{NDF}: 37.1/18$

# reg\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 72.059+/-0.022  $\chi^2$ /NDF: 391967.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 70.285+/-0.019  $\chi^2$ /NDF: 299367.0/18

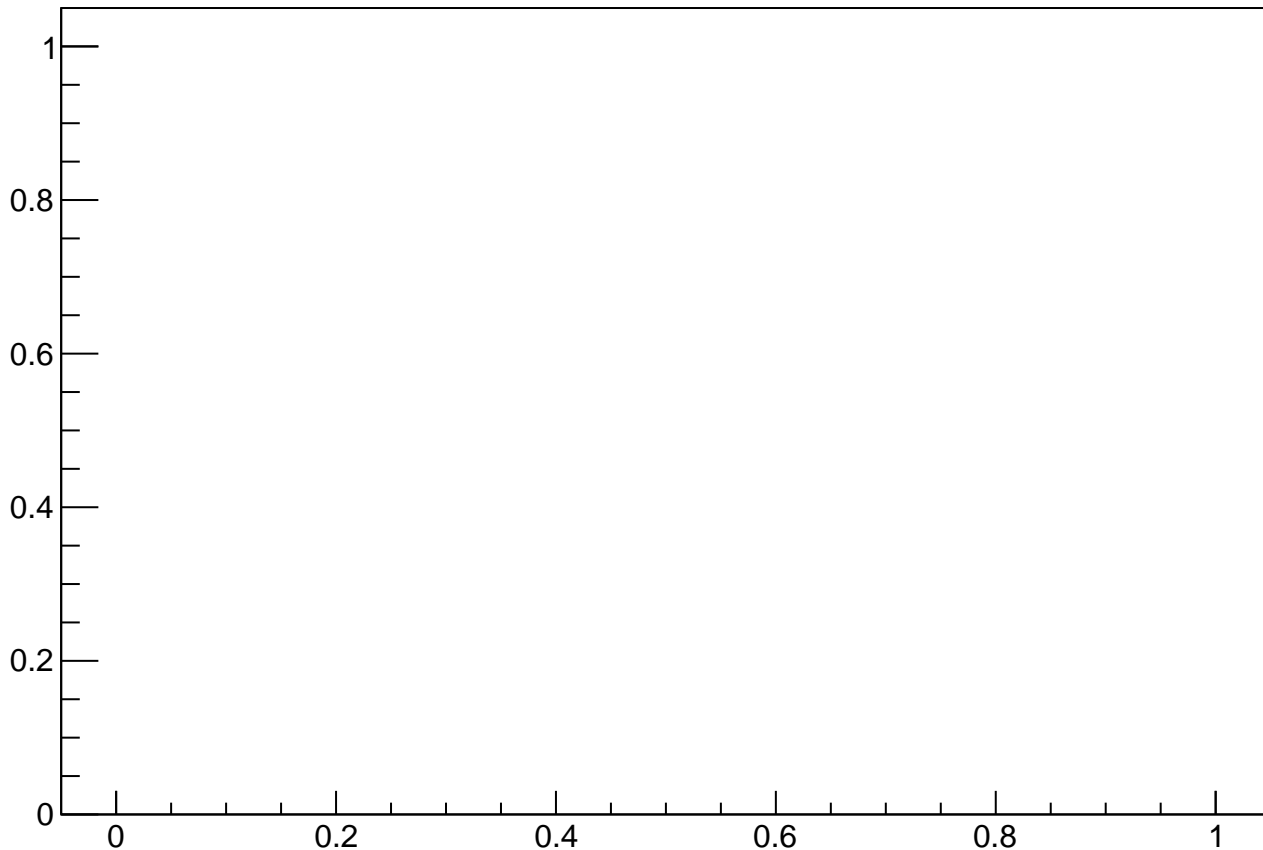
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

72.059+/-0.022  $\chi^2$ /NDF: 391967.0/15

71.069+/-0.014  $\chi^2$ /NDF: 695128.0/34

70.285+/-0.019  $\chi^2$ /NDF: 299367.0/18

# asym\_sam7\_correction\_mean vs Slug, Sign Corrected



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

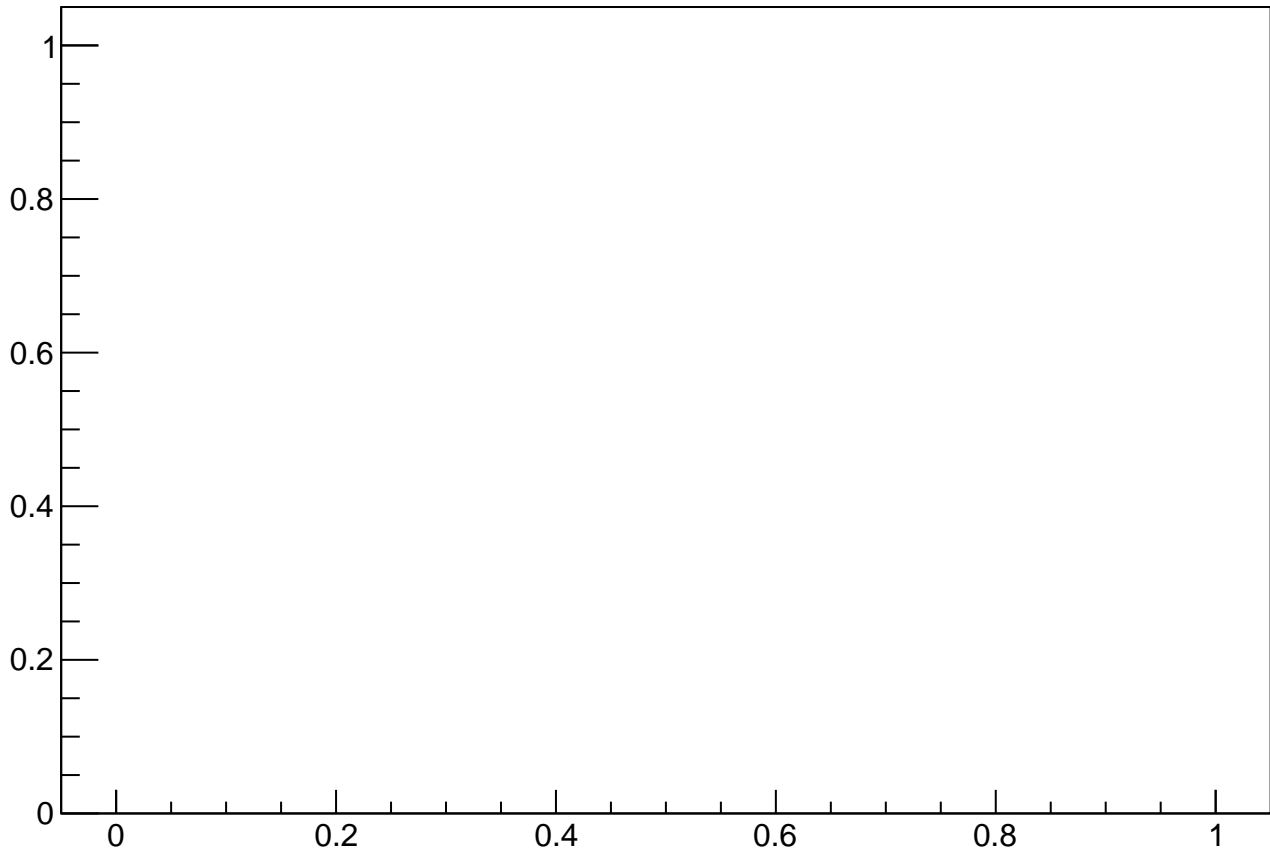
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam7\_correction\_rms vs Slug, Sign Corrected



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

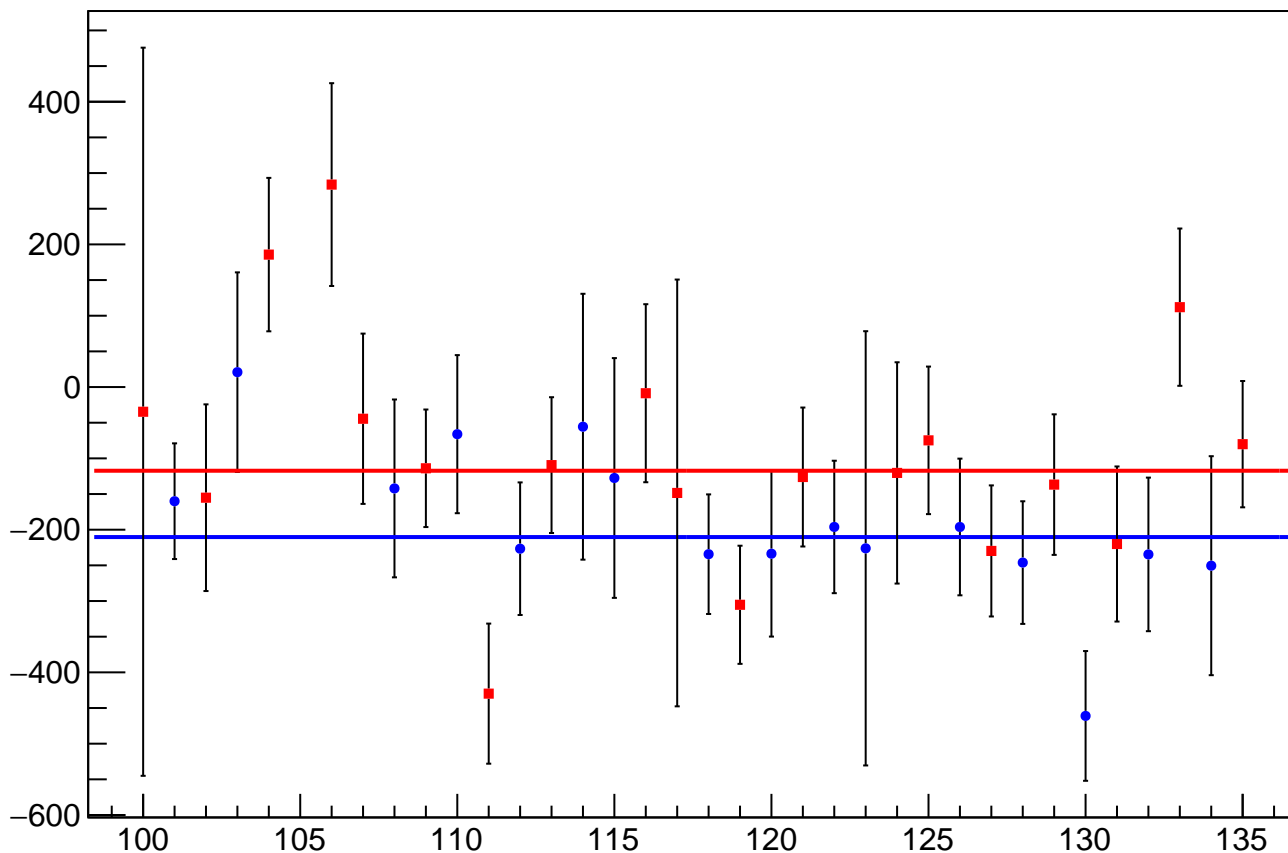
0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0



# reg\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $-210.321 \pm 27.058$   $\chi^2/\text{NDF}: 14.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-117.338 \pm 24.945$   $\chi^2/\text{NDF}: 39.5/18$

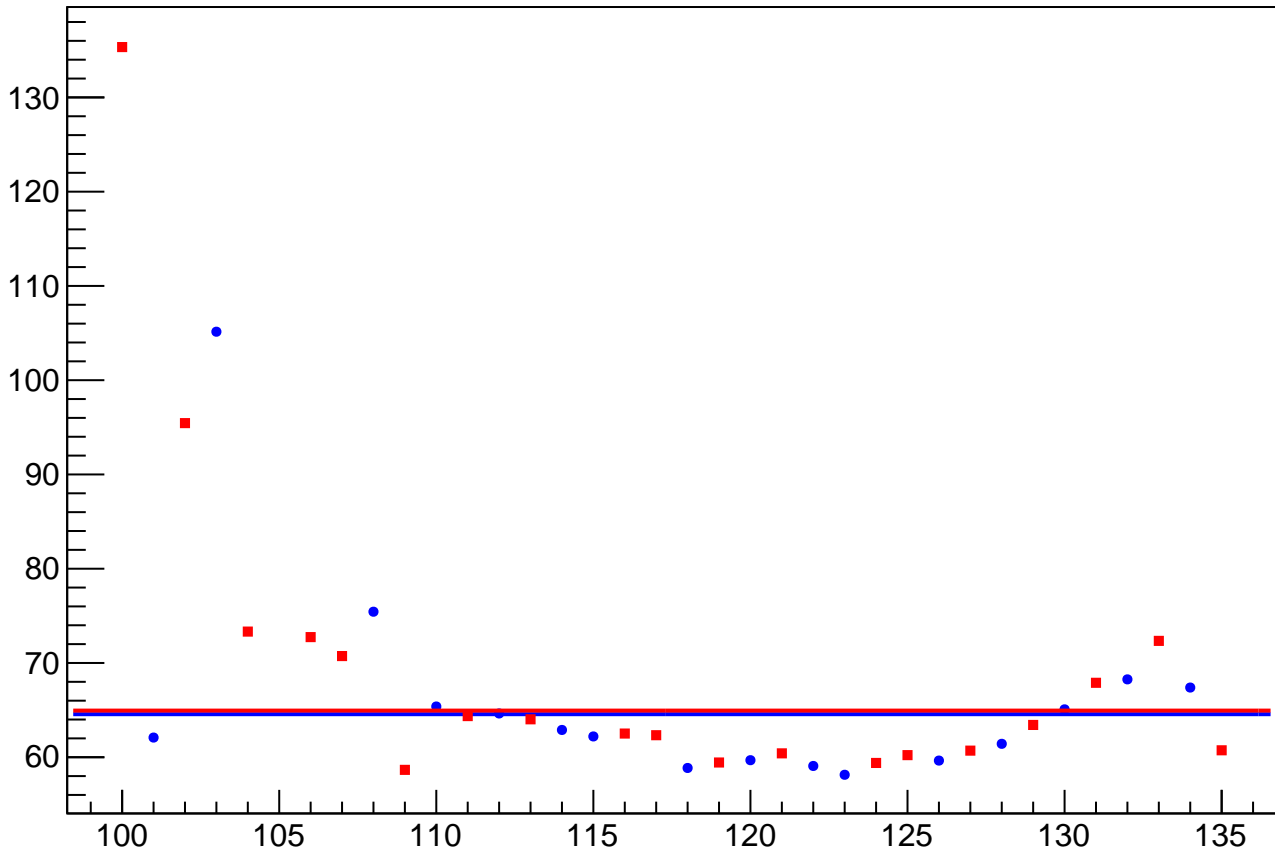
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-210.321 \pm 27.058$   $\chi^2/\text{NDF}: 14.1/15$

$-160.056 \pm 18.340$   $\chi^2/\text{NDF}: 60.1/34$

$-117.338 \pm 24.945$   $\chi^2/\text{NDF}: 39.5/18$

# reg\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 64.566+/-0.019  $\chi^2$ /NDF: 217742.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 64.948+/-0.018  $\chi^2$ /NDF: 222011.6/18

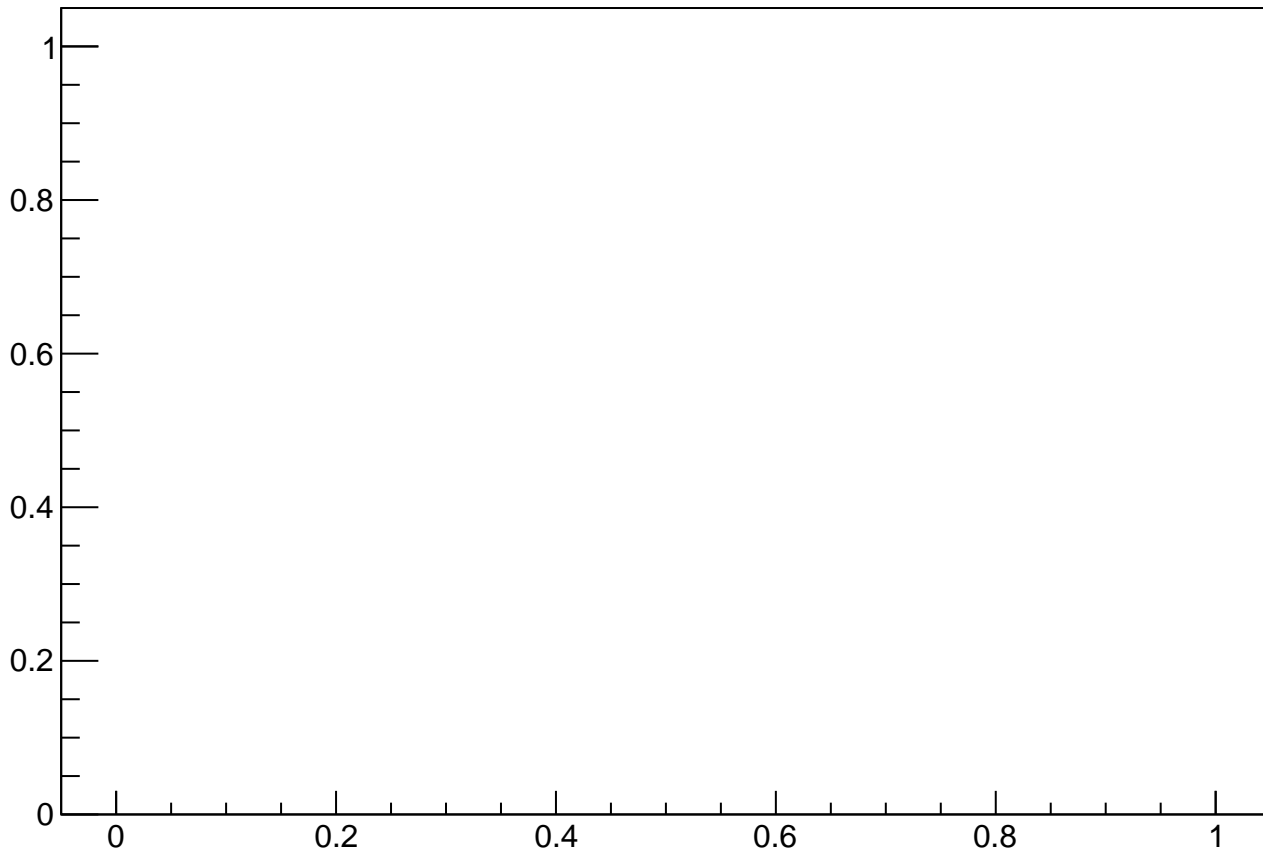
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

64.566+/-0.019  $\chi^2$ /NDF: 217742.3/15

64.772+/-0.013  $\chi^2$ /NDF: 439970.0/34

64.948+/-0.018  $\chi^2$ /NDF: 222011.6/18

# asym\_sam8\_correction\_mean vs Slug, Sign Corrected



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

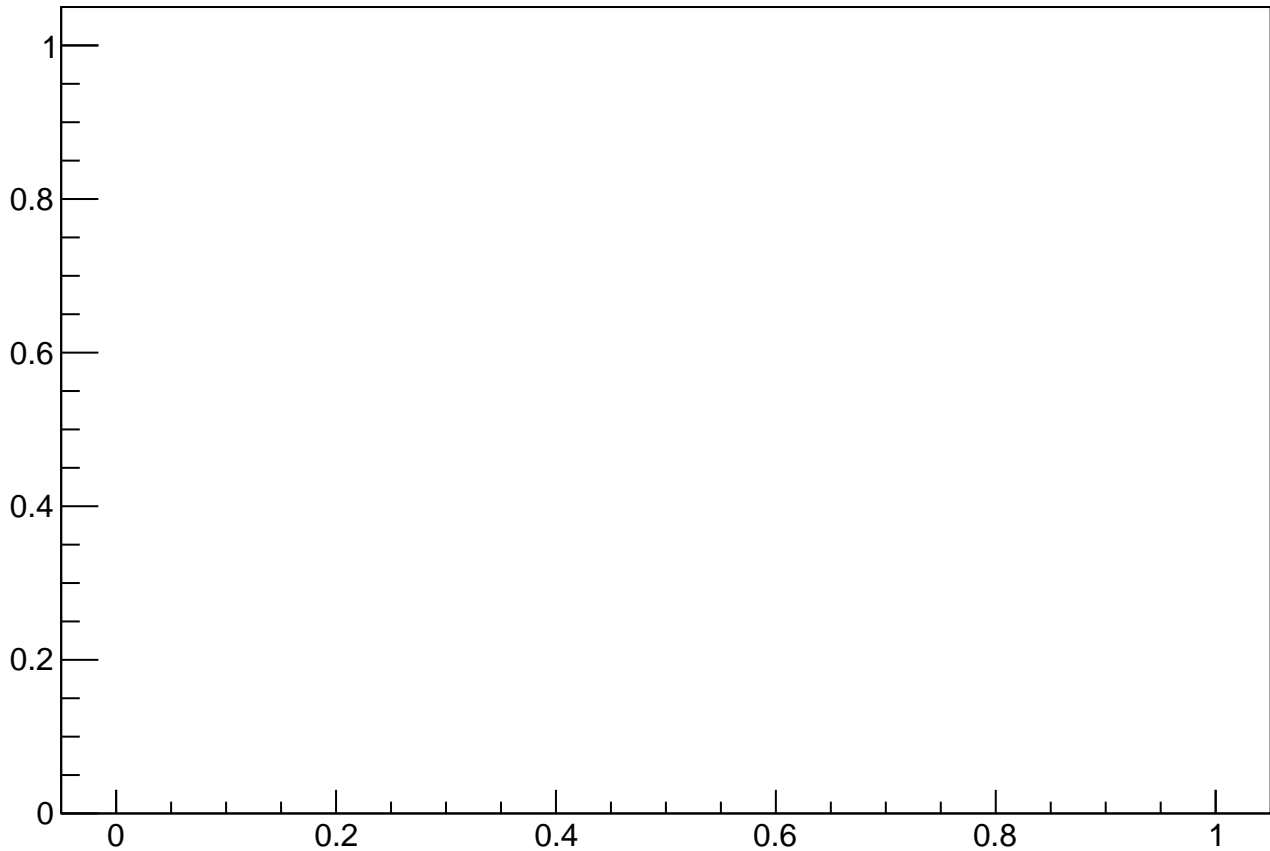
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_correction\_rms vs Slug, Sign Corrected



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

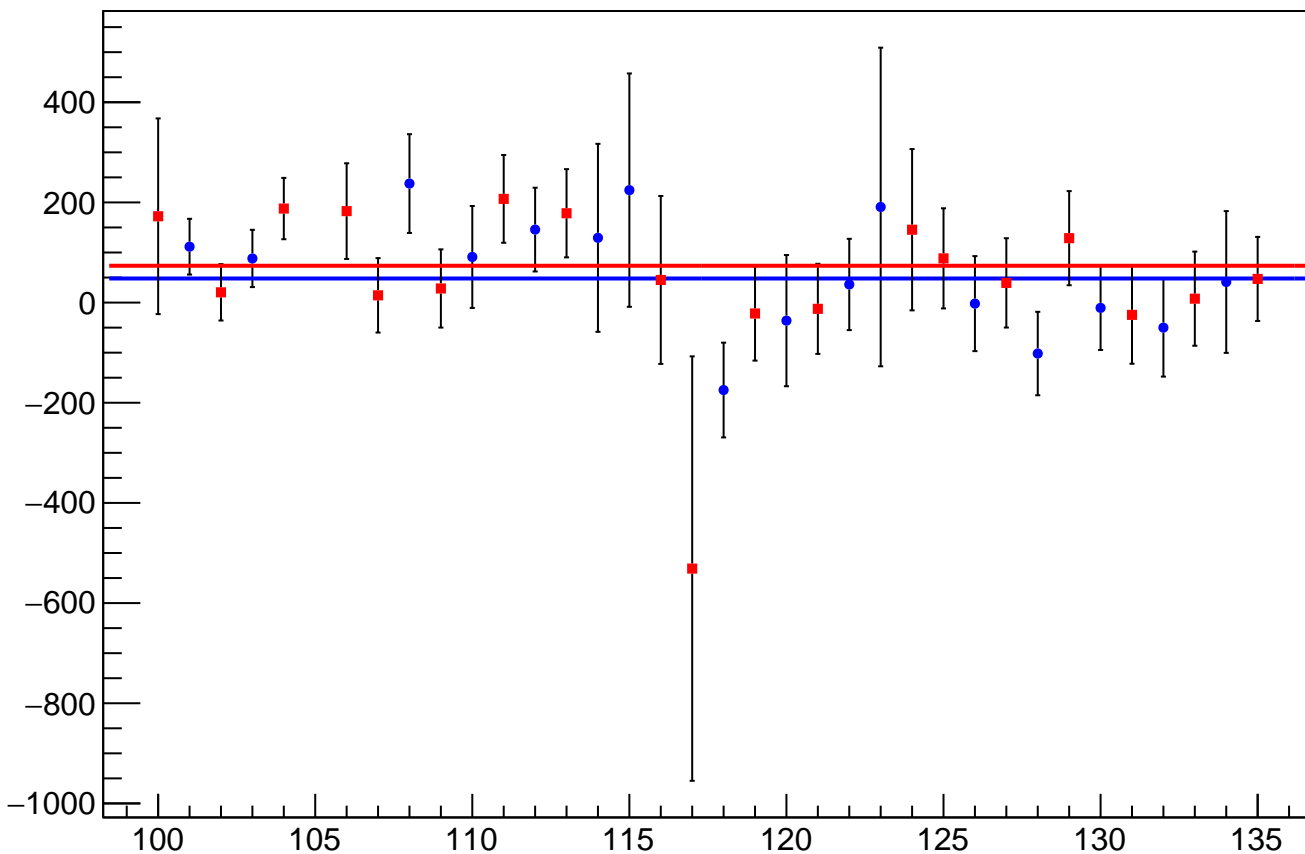
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 48.101+/-23.127  $\chi^2$ /NDF: 19.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 73.542+/-20.683  $\chi^2$ /NDF: 16.9/18

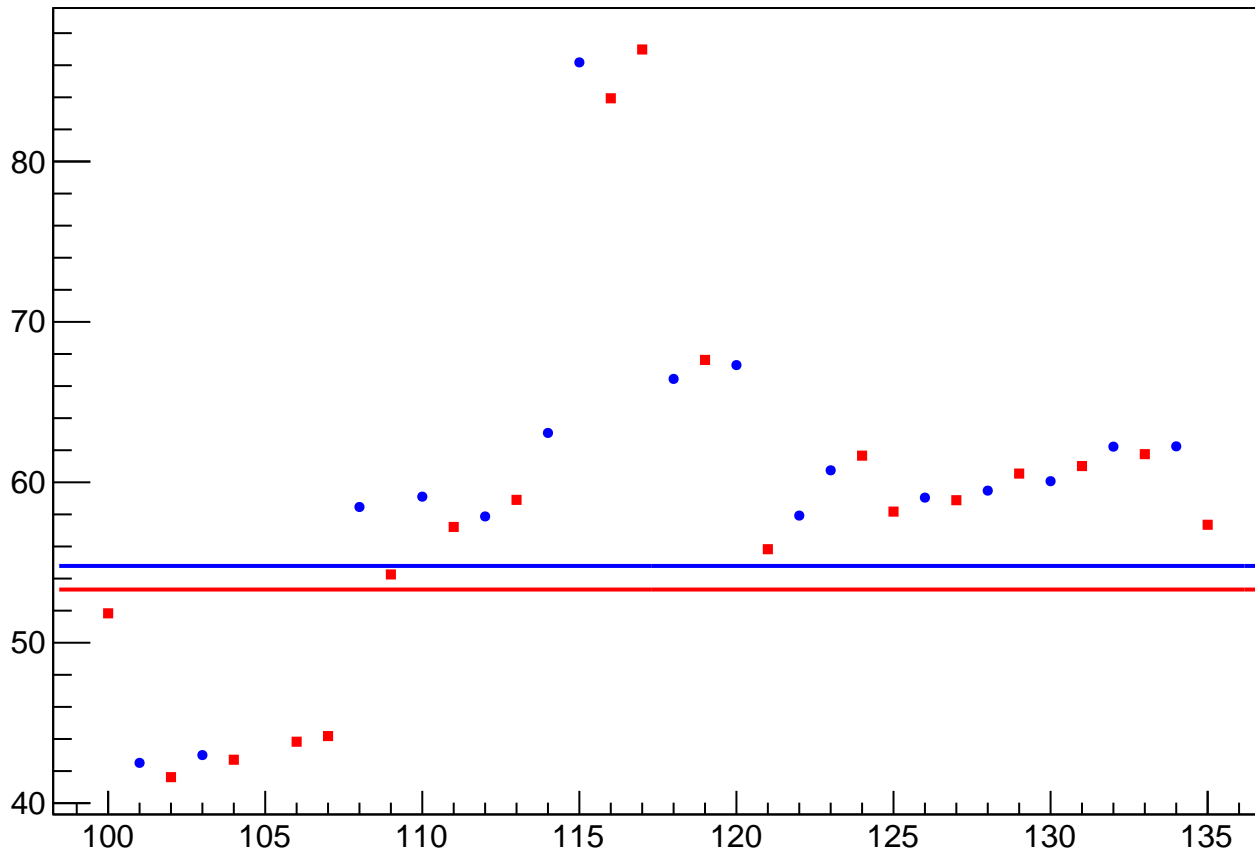
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

48.101+/-23.127  $\chi^2$ /NDF: 19.0/15

62.236+/-15.417  $\chi^2$ /NDF: 36.6/34

73.542+/-20.683  $\chi^2$ /NDF: 16.9/18

# reg\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 54.787+/-0.016  $\chi^2$ /NDF: 318737.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 53.316+/-0.015  $\chi^2$ /NDF: 398814.7/18

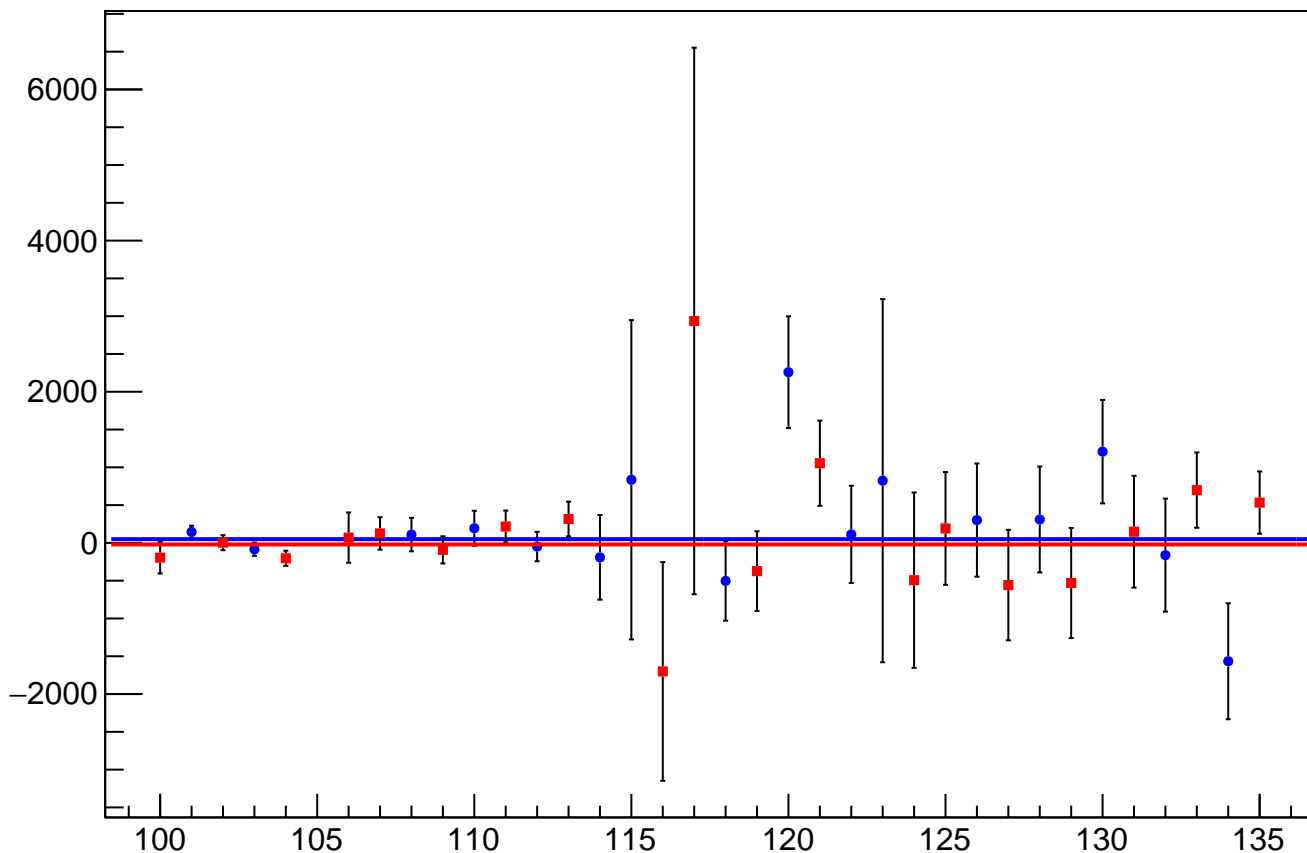
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

54.787+/-0.016  $\chi^2$ /NDF: 318737.4/15

53.970+/-0.011  $\chi^2$ /NDF: 722048.3/34

53.316+/-0.015  $\chi^2$ /NDF: 398814.7/18

# asym\_sam\_15\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 49.673+/-52.184  $\chi^2$ /NDF: 22.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -20.788+/-53.413  $\chi^2$ /NDF: 19.5/18

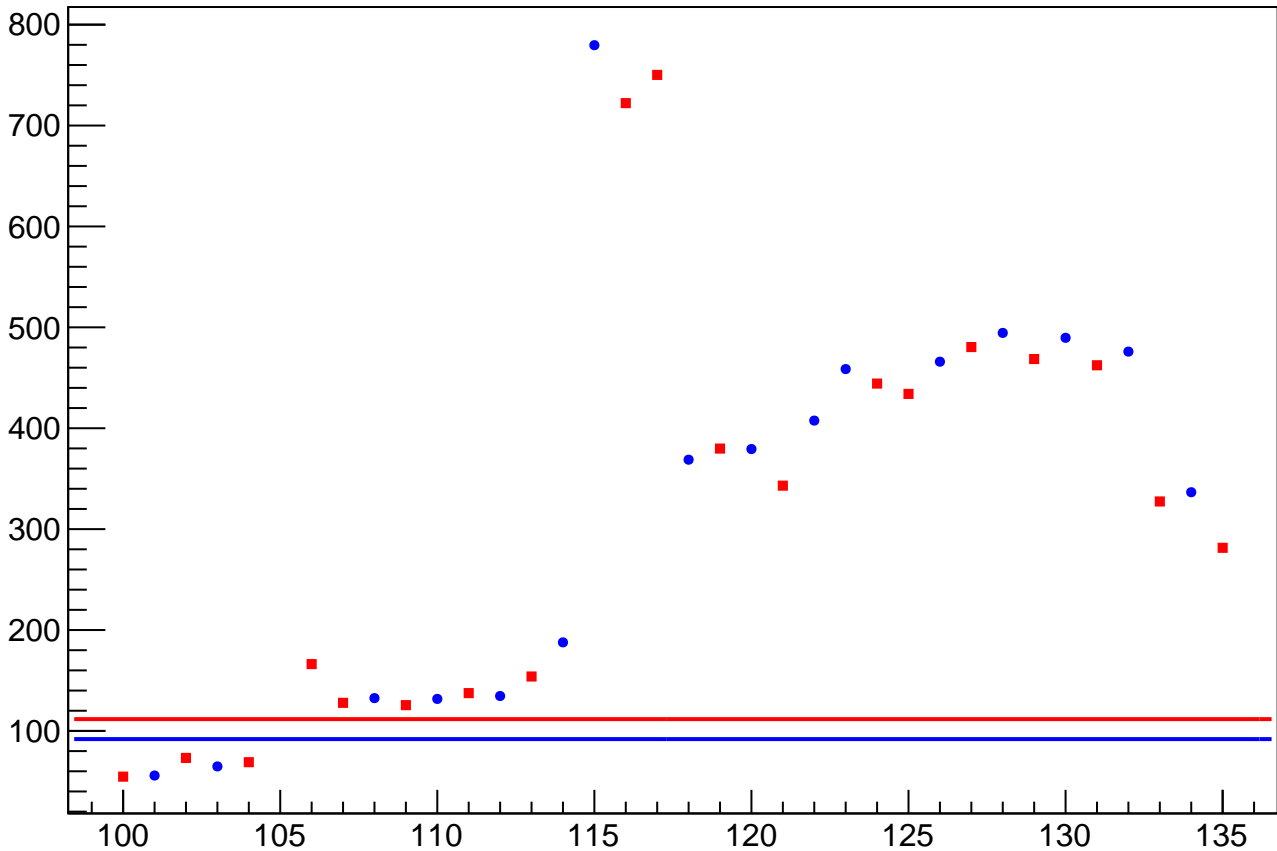
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

49.673+/-52.184  $\chi^2$ /NDF: 22.5/15

15.263+/-37.327  $\chi^2$ /NDF: 42.9/34

-20.788+/-53.413  $\chi^2$ /NDF: 19.5/18

# asym\_sam\_15\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 91.895+/-0.037  $\chi^2$ /NDF: 5025100.2/15

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

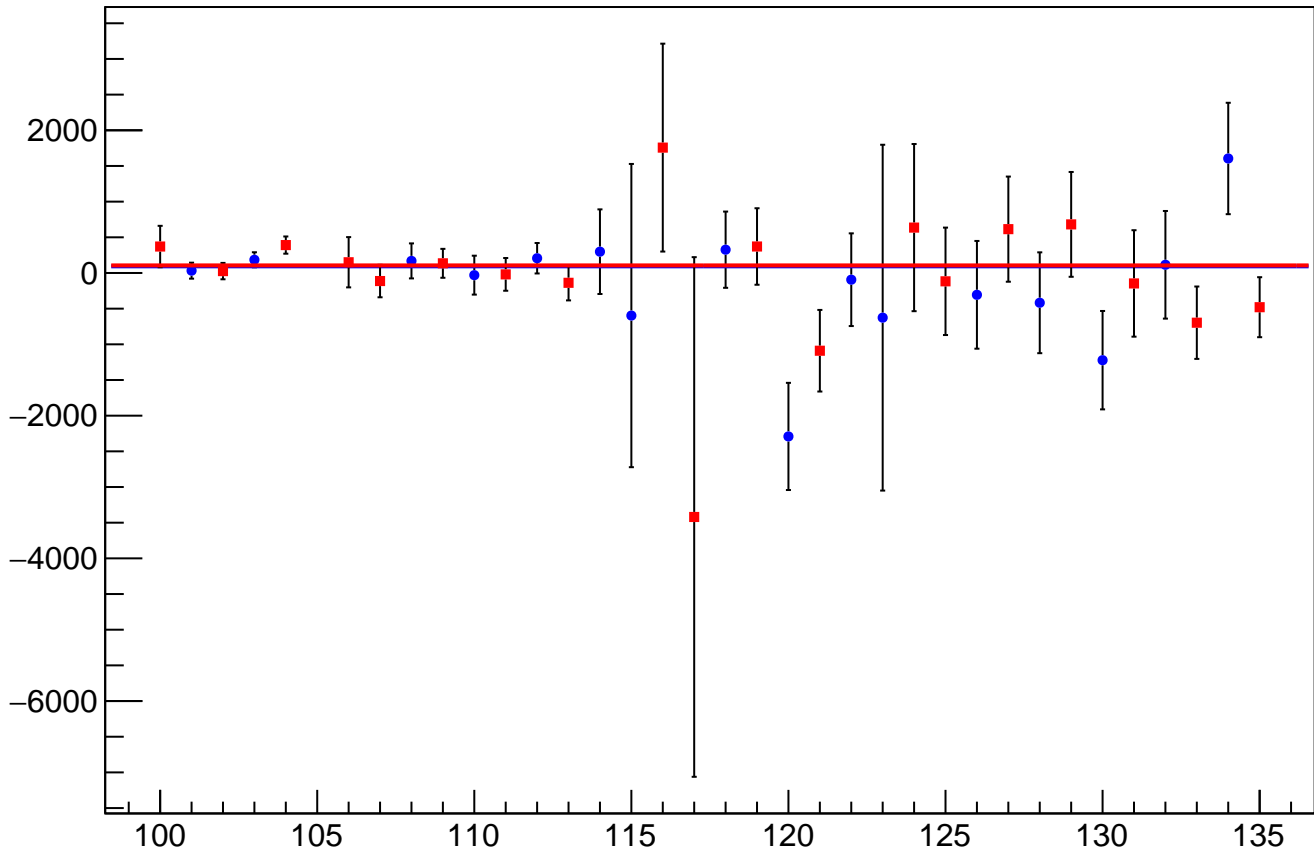
91.895+/-0.037  $\chi^2$ /NDF: 5025100.2/15

101.564+/-0.026  $\chi^2$ /NDF: 10108347.4/34

111.694+/-0.038  $\chi^2$ /NDF: 4942647.4/18



# asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 93.128+/-64.309  $\chi^2$ /NDF: 20.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 106.164+/-61.059  $\chi^2$ /NDF: 21.9/18

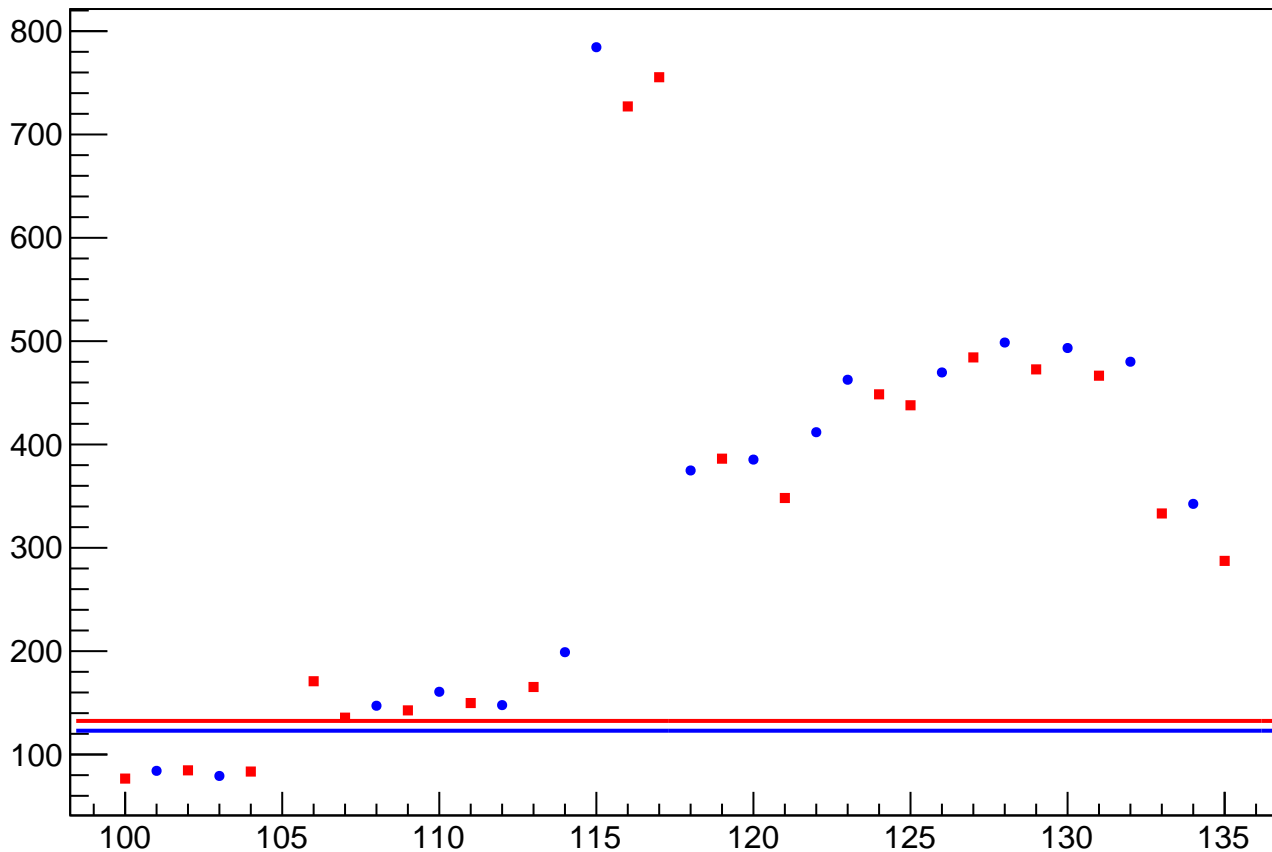
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

93.128+/-64.309  $\chi^2$ /NDF: 20.5/15

99.983+/-44.280  $\chi^2$ /NDF: 42.4/34

106.164+/-61.059  $\chi^2$ /NDF: 21.9/18

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 123.004+/-0.045  $\chi^2$ /NDF: 4188980.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 132.486+/-0.043  $\chi^2$ /NDF: 4296711.8/18

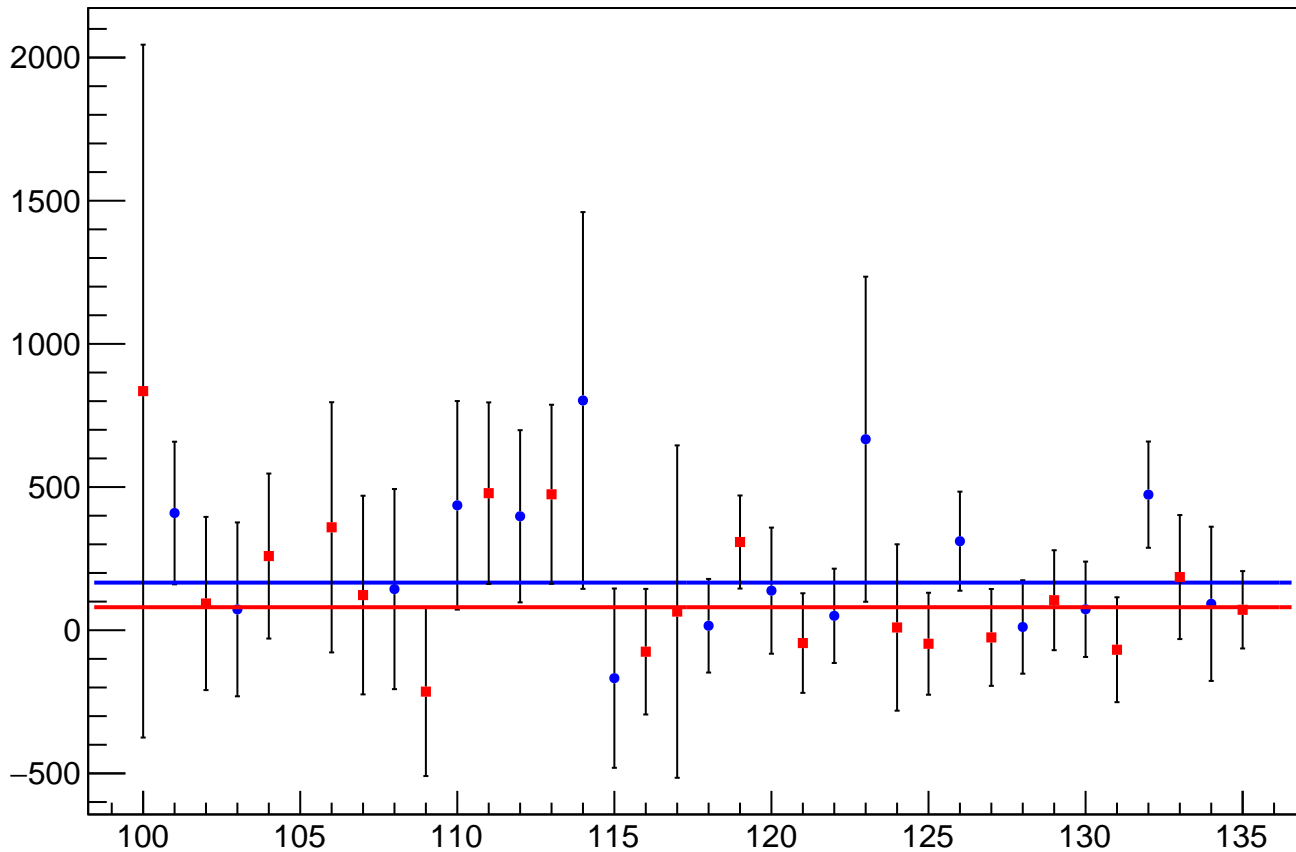
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

123.004+/-0.045  $\chi^2$ /NDF: 4188980.0/15

127.991+/-0.031  $\chi^2$ /NDF: 8508556.3/34

132.486+/-0.043  $\chi^2$ /NDF: 4296711.8/18

# reg\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 166.322+/-56.417  $\chi^2$ /NDF: 11.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 80.413+/-51.254  $\chi^2$ /NDF: 10.2/18

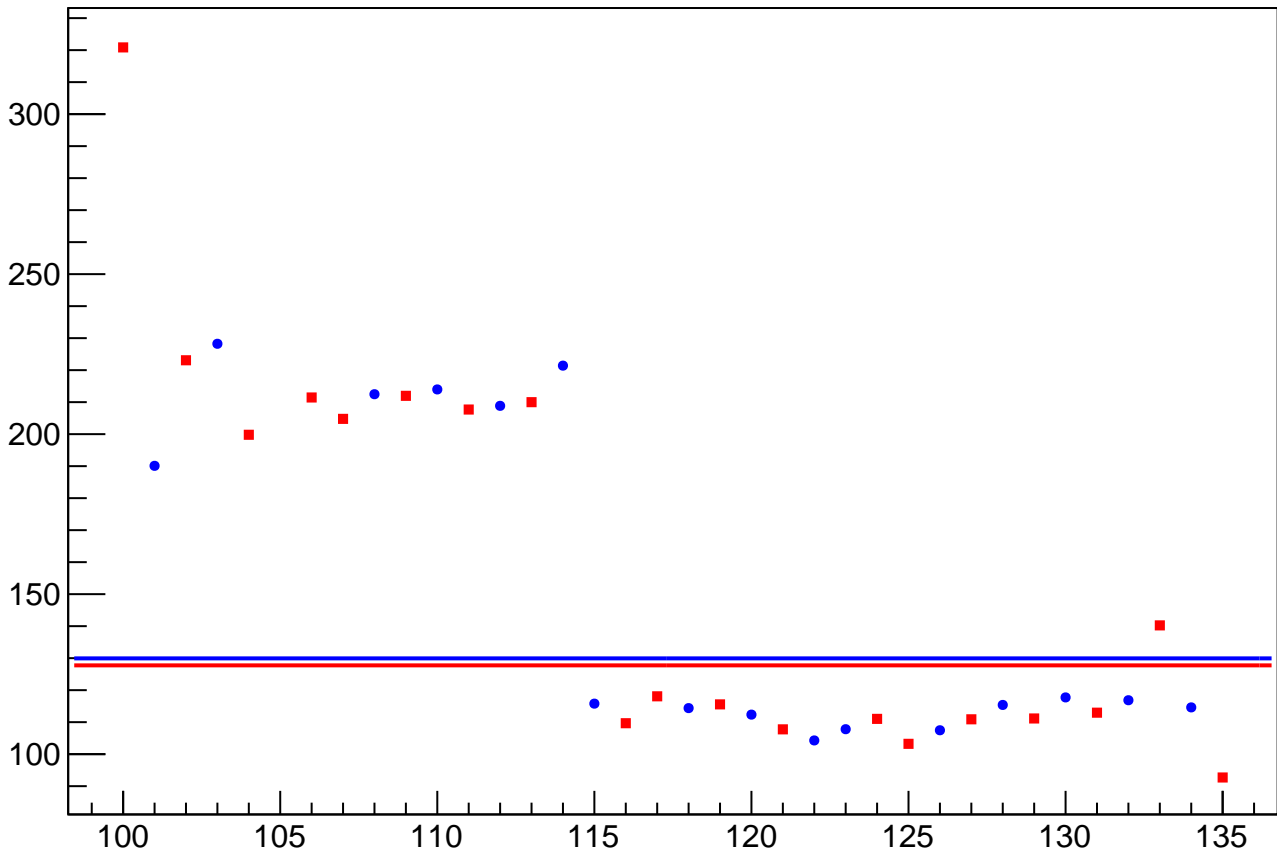
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

166.322+/-56.417  $\chi^2$ /NDF: 11.1/15

119.257+/-37.937  $\chi^2$ /NDF: 22.6/34

80.413+/-51.254  $\chi^2$ /NDF: 10.2/18

# reg\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 129.932+/-0.040  $\chi^2$ /NDF: 884186.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 127.747+/-0.036  $\chi^2$ /NDF: 1263998.3/18

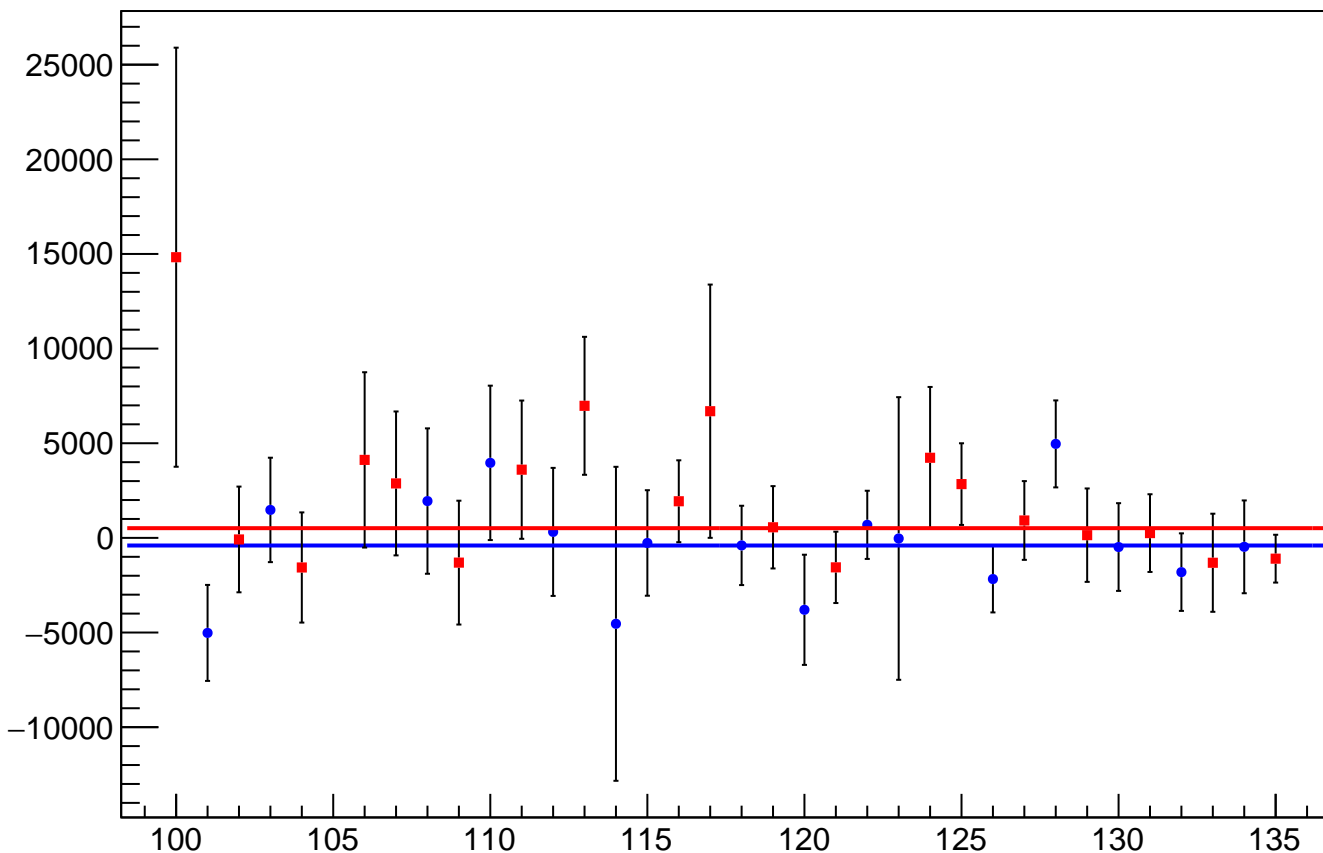
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

129.932+/-0.040  $\chi^2$ /NDF: 884186.0/15

128.735+/-0.027  $\chi^2$ /NDF: 2149827.1/34

127.747+/-0.036  $\chi^2$ /NDF: 1263998.3/18

# asym\_sam\_26\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -402.842+/-642.914  $\chi^2$ /NDF: 14.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 513.135+/-573.783  $\chi^2$ /NDF: 14.2/18

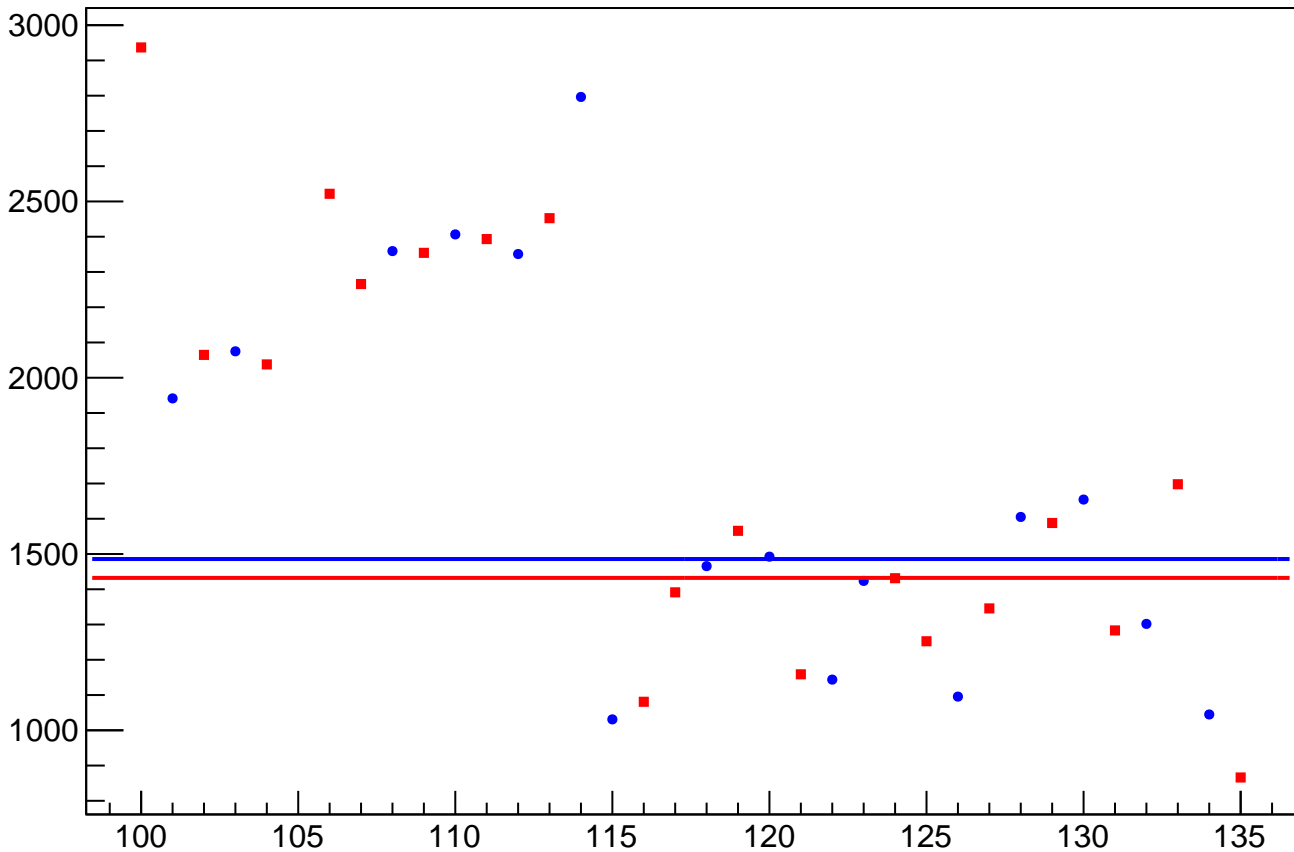
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-402.842+/-642.914  $\chi^2$ /NDF: 14.3/15

107.023+/-428.088  $\chi^2$ /NDF: 29.6/34

513.135+/-573.783  $\chi^2$ /NDF: 14.2/18

asym\_sam\_26\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1485.793+/-0.455  $\chi^2$ /NDF: 862402.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1432.262+/-0.406  $\chi^2$ /NDF: 1448051.4/18

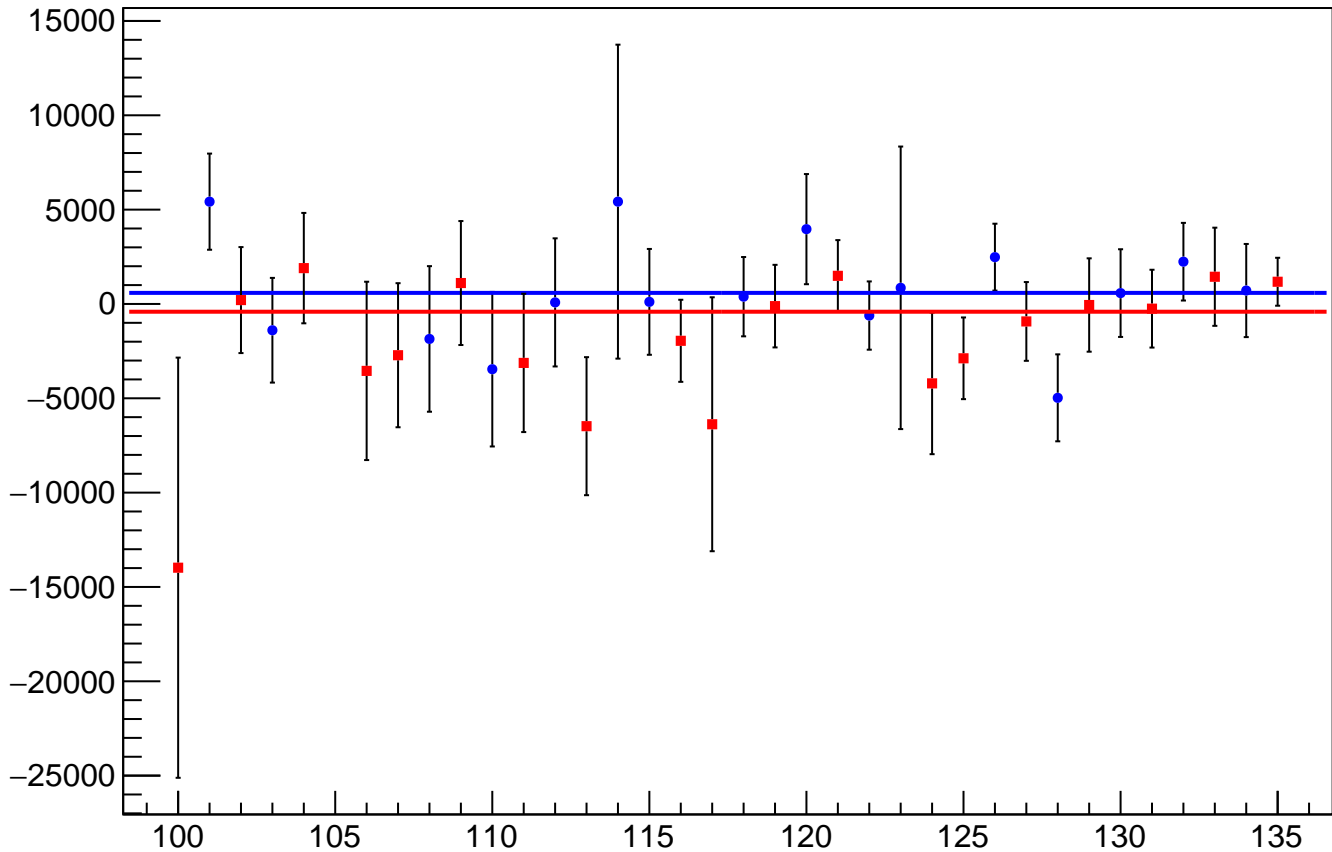
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1485.793+/-0.455  $\chi^2$ /NDF: 862402.9/15

1455.995+/-0.303  $\chi^2$ /NDF: 2318172.2/34

1432.262+/-0.406  $\chi^2$ /NDF: 1448051.4/18

# asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 587.386+/-645.779  $\chi^2$ /NDF: 15.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -411.333+/-576.622  $\chi^2$ /NDF: 13.3/18

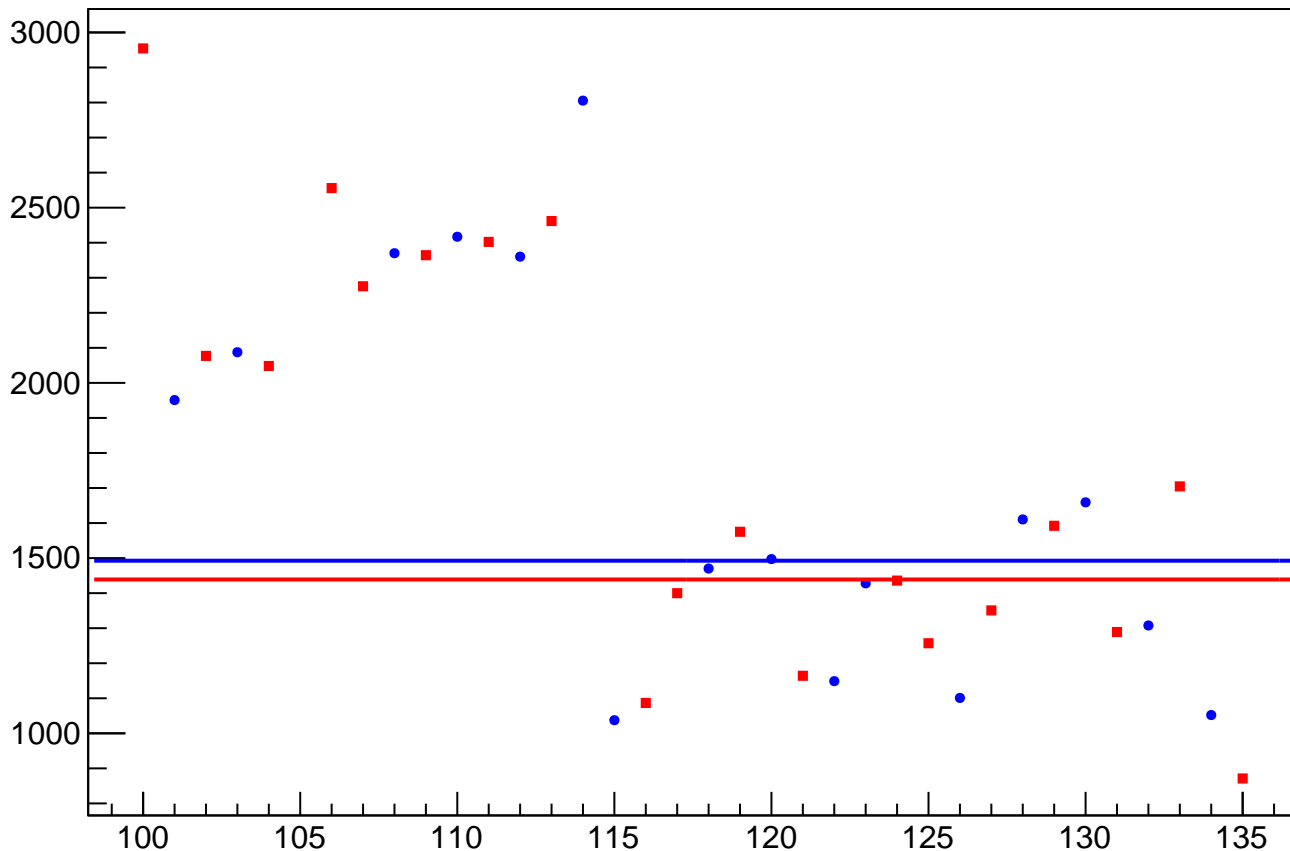
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

587.386+/-645.779  $\chi^2$ /NDF: 15.3/15

31.704+/-430.113  $\chi^2$ /NDF: 29.9/34

-411.333+/-576.622  $\chi^2$ /NDF: 13.3/18

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 1492.594+/-0.457  $\chi^2/\text{NDF}$ : 860476.2/15

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

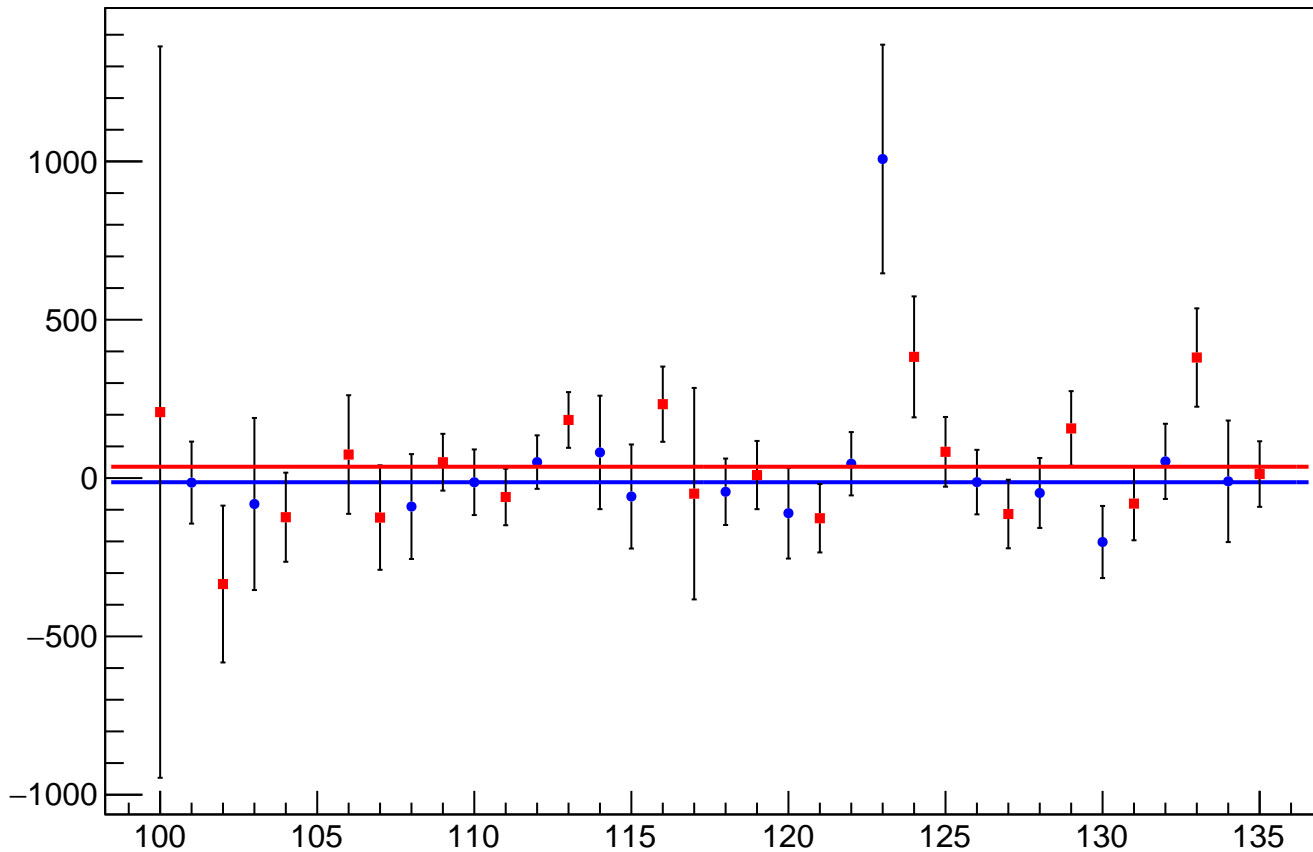
1492.594+/-0.457  $\chi^2/\text{NDF}$ : 860476.2/15

1462.756+/-0.304  $\chi^2/\text{NDF}$ : 2314709.9/34

1438.966+/-0.408  $\chi^2/\text{NDF}$ : 1446559.4/18



# reg\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In:  $-13.120 \pm 31.439$   $\chi^2/\text{NDF}$ : 13.2/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $35.796 \pm 28.397$   $\chi^2/\text{NDF}$ : 26.1/18

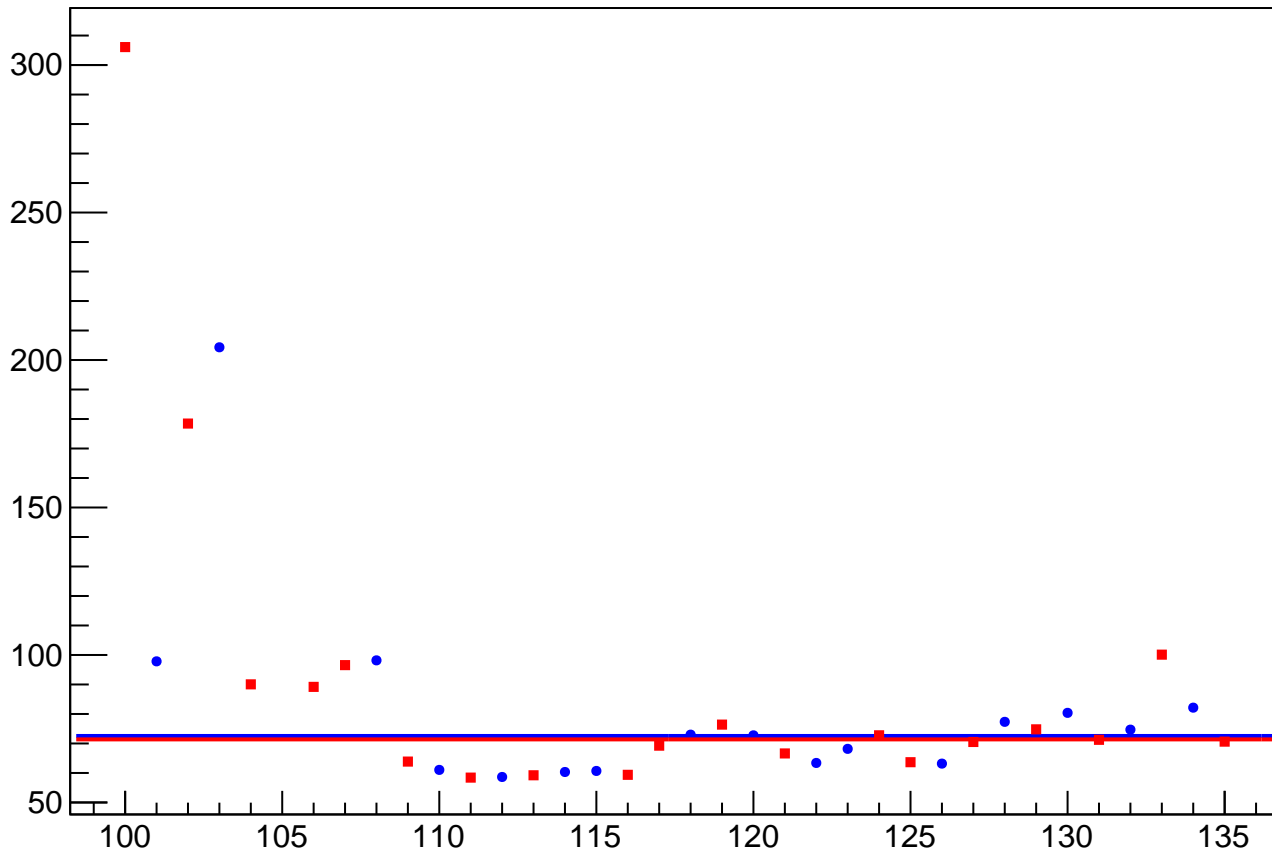
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-13.120 \pm 31.439$   $\chi^2/\text{NDF}$ : 13.2/15

$13.818 \pm 21.073$   $\chi^2/\text{NDF}$ : 40.7/34

$35.796 \pm 28.397$   $\chi^2/\text{NDF}$ : 26.1/18

# reg\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 72.542+/-0.022  $\chi^2$ /NDF: 745996.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 71.381+/-0.020  $\chi^2$ /NDF: 759888.7/18

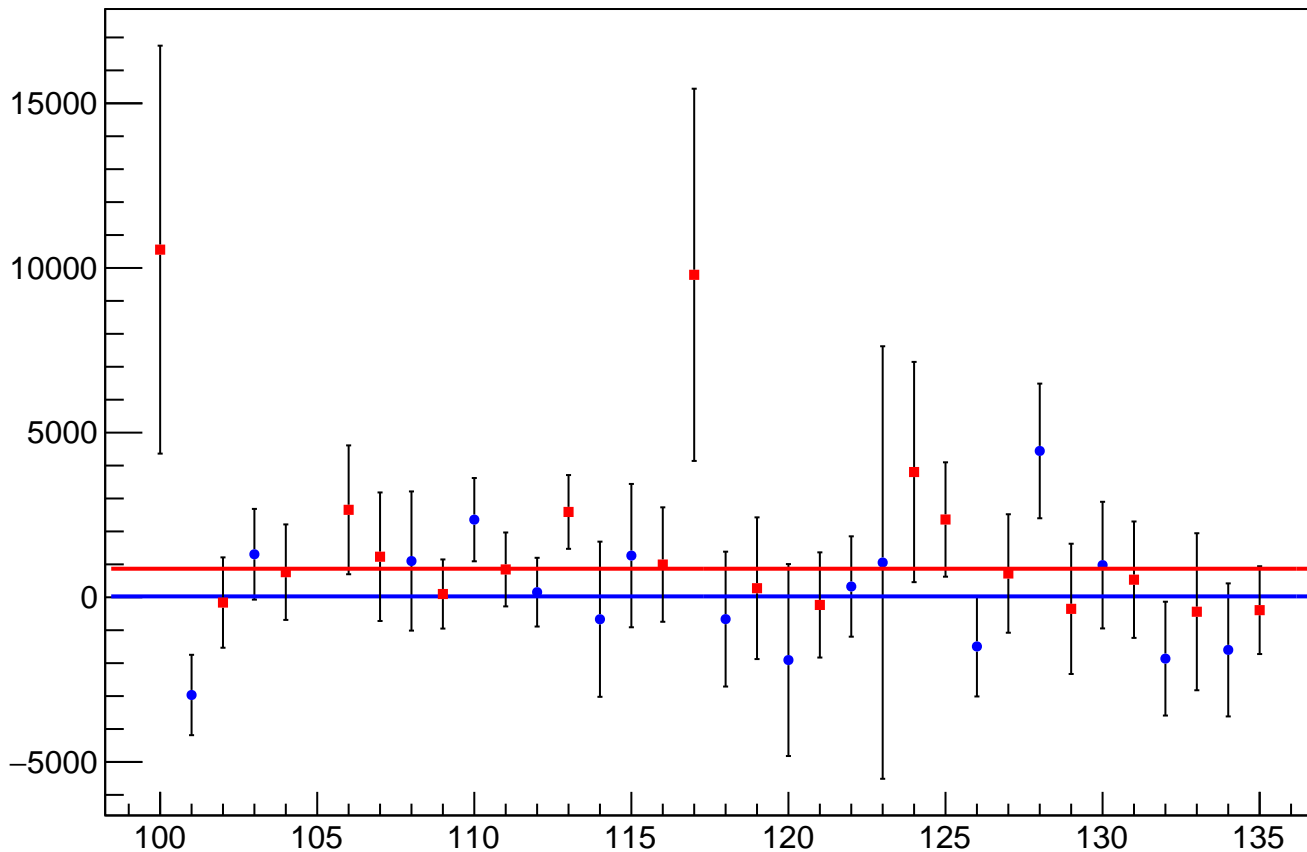
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

72.542+/-0.022  $\chi^2$ /NDF: 745996.6/15

71.903+/-0.015  $\chi^2$ /NDF: 1507387.7/34

71.381+/-0.020  $\chi^2$ /NDF: 759888.7/18

# asym\_sam\_37\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 27.383+/-419.174  $\chi^2$ /NDF: 19.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 867.352+/-376.074  $\chi^2$ /NDF: 13.0/18

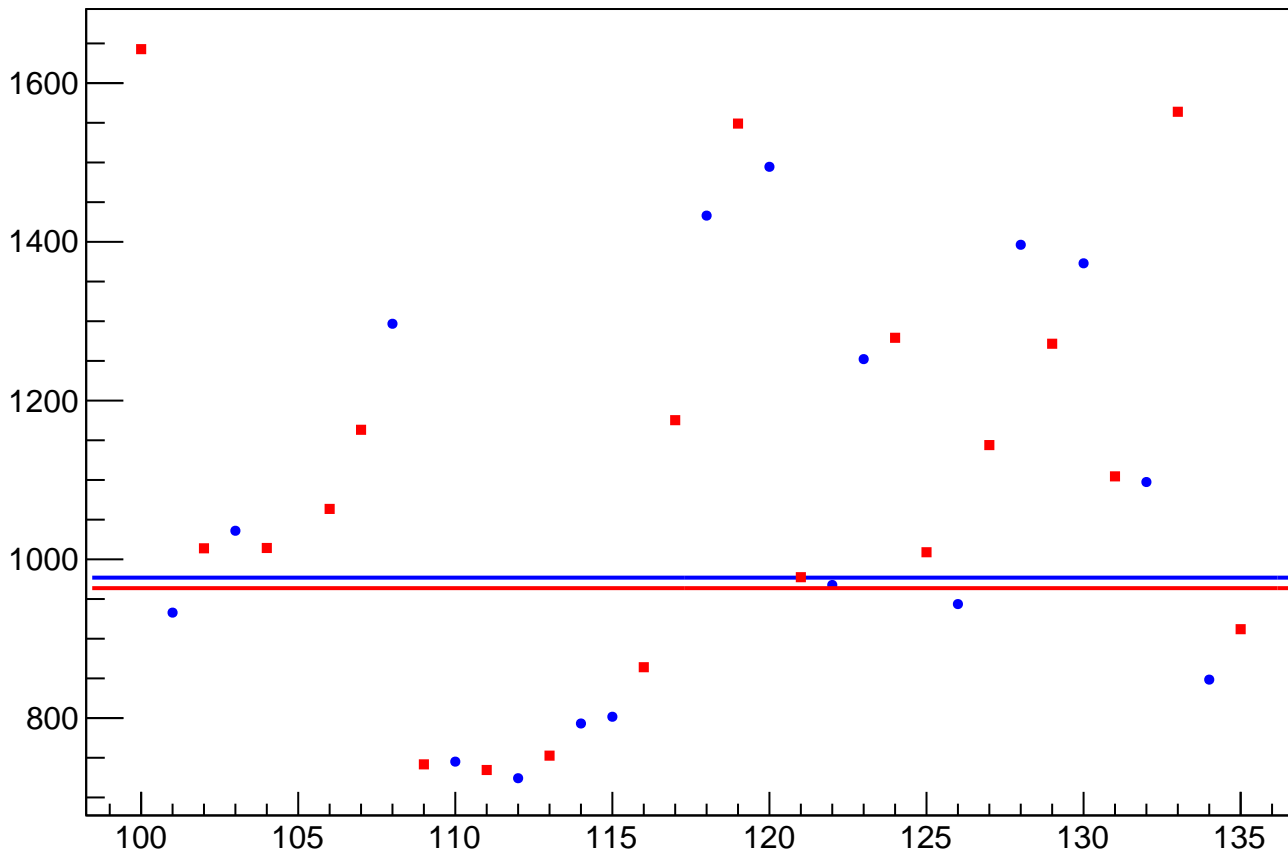
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

27.383+/-419.174  $\chi^2$ /NDF: 19.3/15

492.758+/-279.926  $\chi^2$ /NDF: 34.5/34

867.352+/-376.074  $\chi^2$ /NDF: 13.0/18

# asym\_sam\_37\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 976.939+/-0.296  $\chi^2$ /NDF: 615437.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 963.700+/-0.266  $\chi^2$ /NDF: 686808.9/18

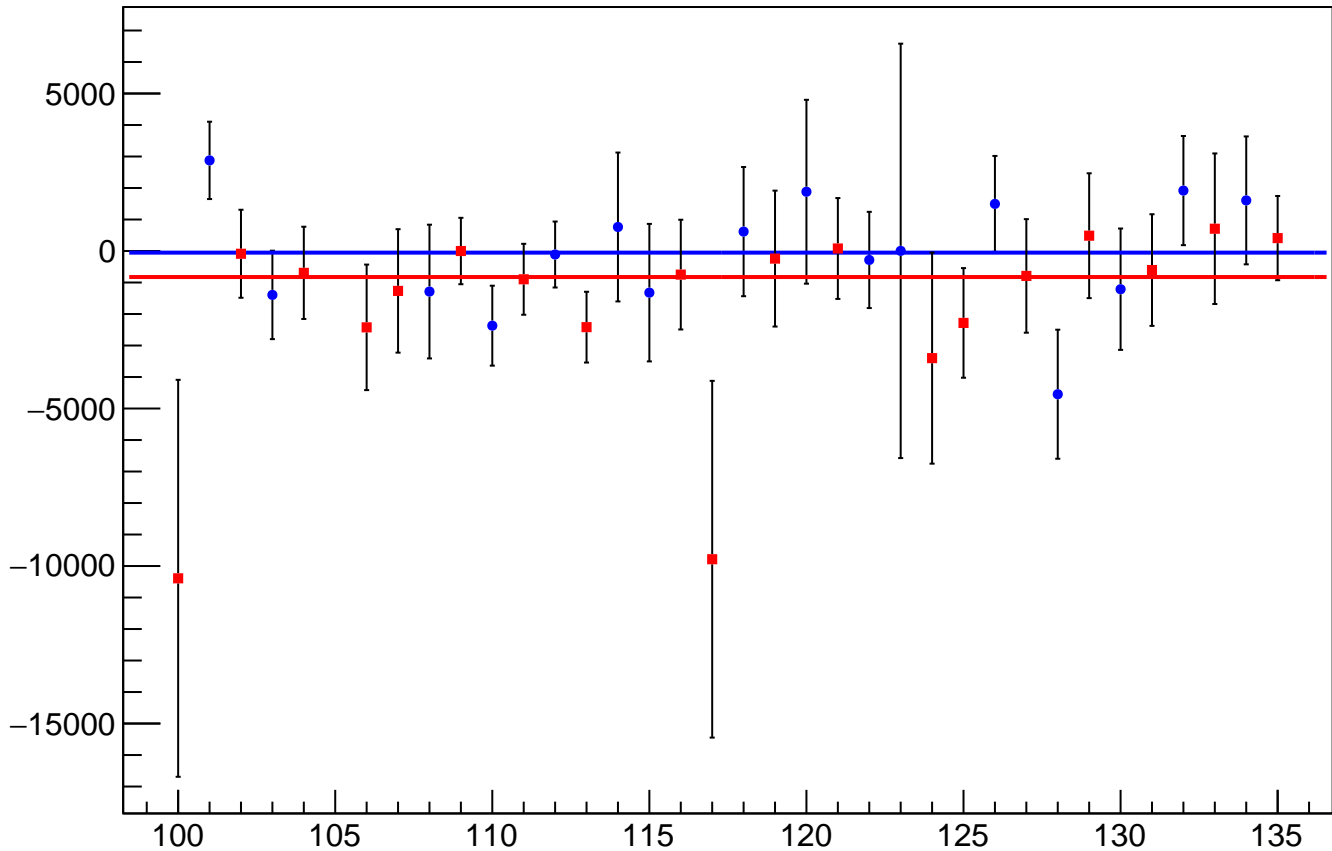
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

976.939+/-0.296  $\chi^2$ /NDF: 615437.1/15

969.604+/-0.198  $\chi^2$ /NDF: 1303351.5/34

963.700+/-0.266  $\chi^2$ /NDF: 686808.9/18

# asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In:  $-51.380 \pm 421.179$   $\chi^2/\text{NDF}: 19.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-826.122 \pm 377.996$   $\chi^2/\text{NDF}: 11.8/18$

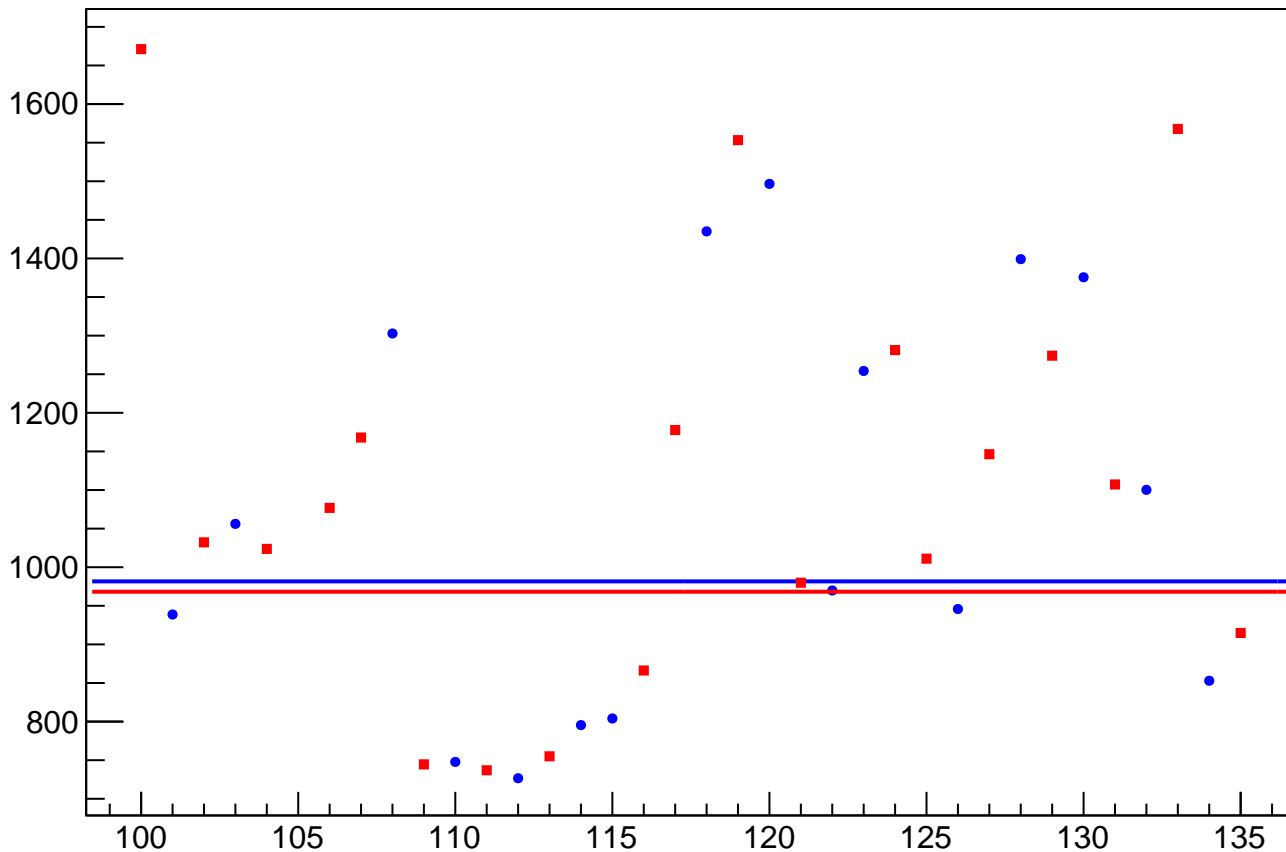
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-51.380 \pm 421.179$   $\chi^2/\text{NDF}: 19.5/15$

$-480.491 \pm 281.316$   $\chi^2/\text{NDF}: 33.2/34$

$-826.122 \pm 377.996$   $\chi^2/\text{NDF}: 11.8/18$

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 981.651+/-0.298  $\chi^2/\text{NDF}$ : 614963.9/15

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

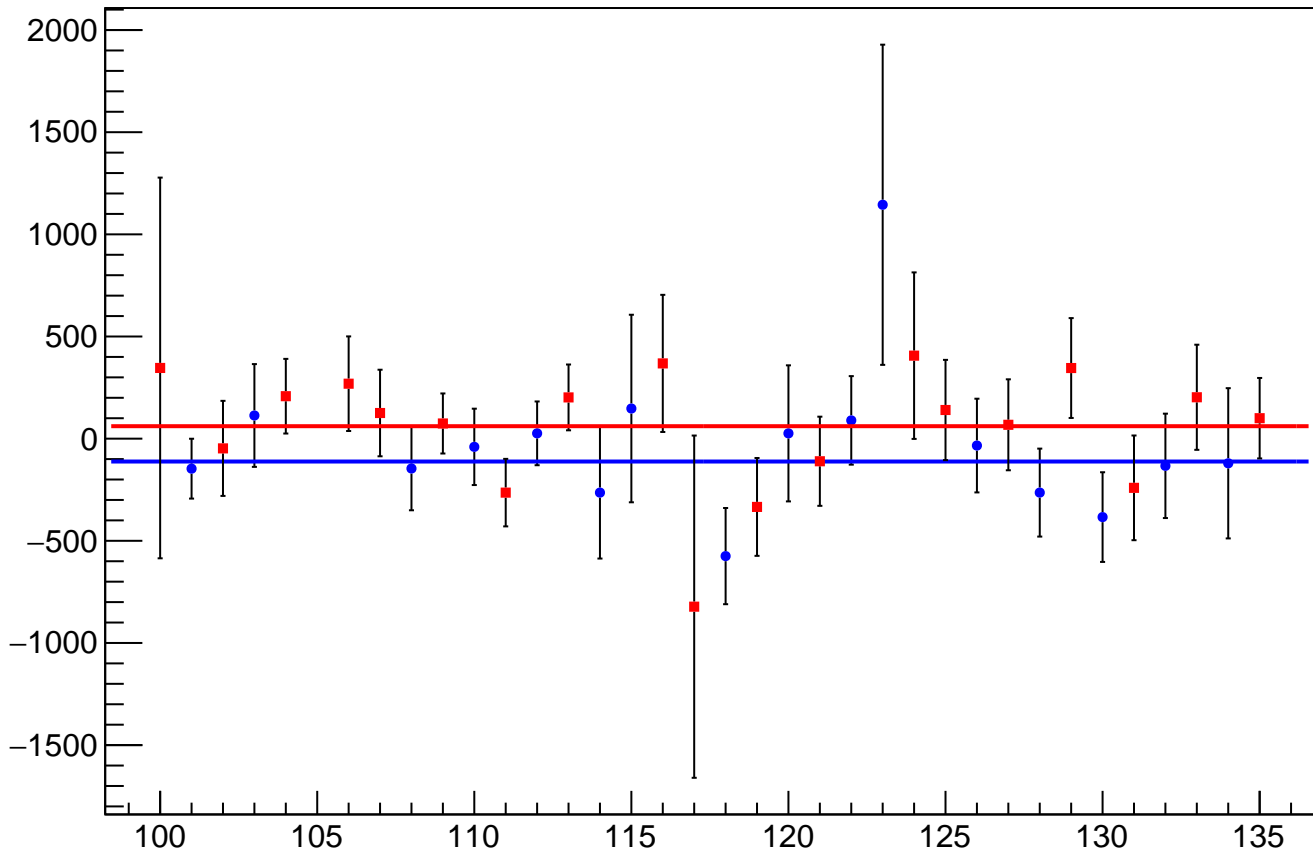
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

981.651+/-0.298  $\chi^2/\text{NDF}$ : 614963.9/15

974.234+/-0.199  $\chi^2/\text{NDF}$ : 1305261.9/34

968.260+/-0.267  $\chi^2/\text{NDF}$ : 689178.3/18

# reg\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: -111.916+/-57.314  $\chi^2/\text{NDF}$ : 12.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 61.001+/-51.542  $\chi^2/\text{NDF}$ : 15.7/18

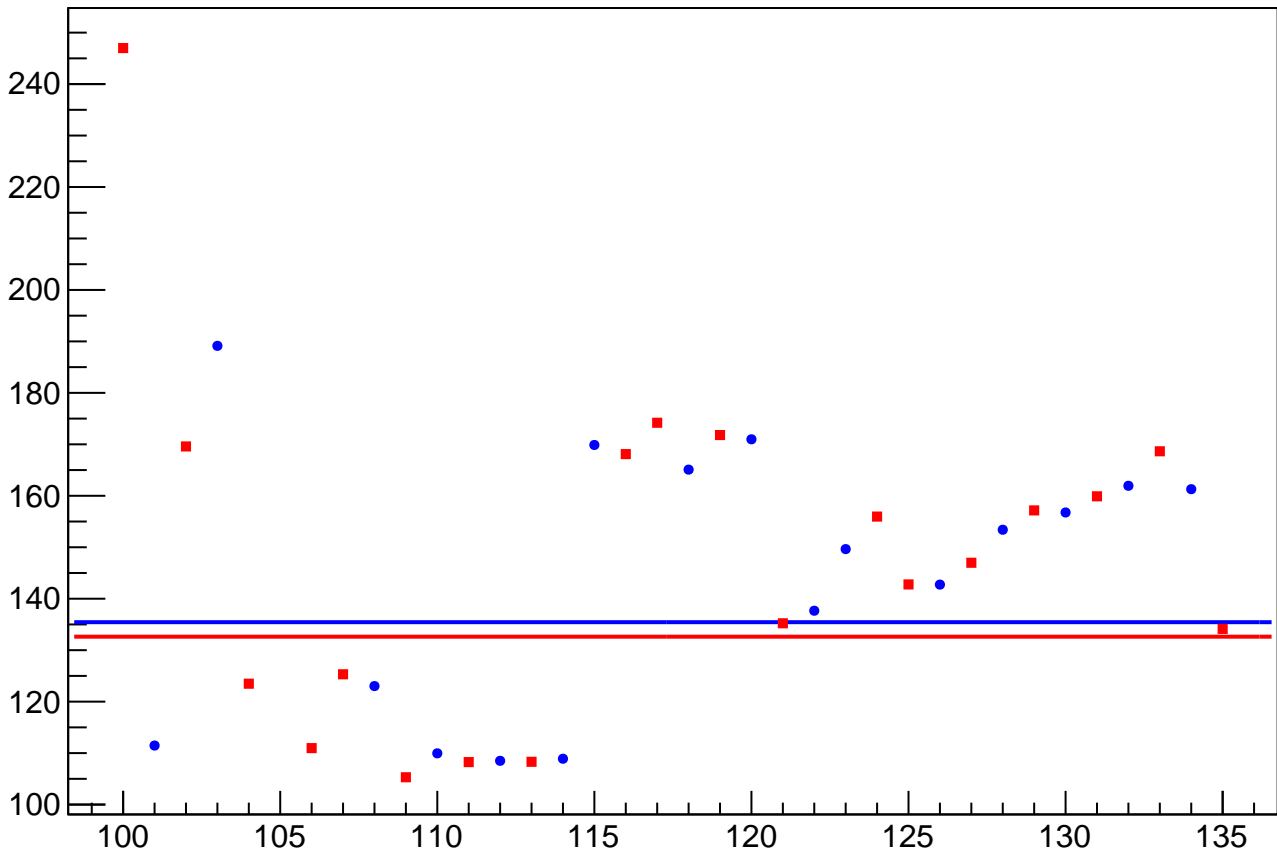
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-111.916+/-57.314  $\chi^2/\text{NDF}$ : 12.0/15

-16.315+/-38.324  $\chi^2/\text{NDF}$ : 32.7/34

61.001+/-51.542  $\chi^2/\text{NDF}$ : 15.7/18

# reg\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 135.438+/-0.041  $\chi^2$ /NDF: 395218.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 132.623+/-0.036  $\chi^2$ /NDF: 445240.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

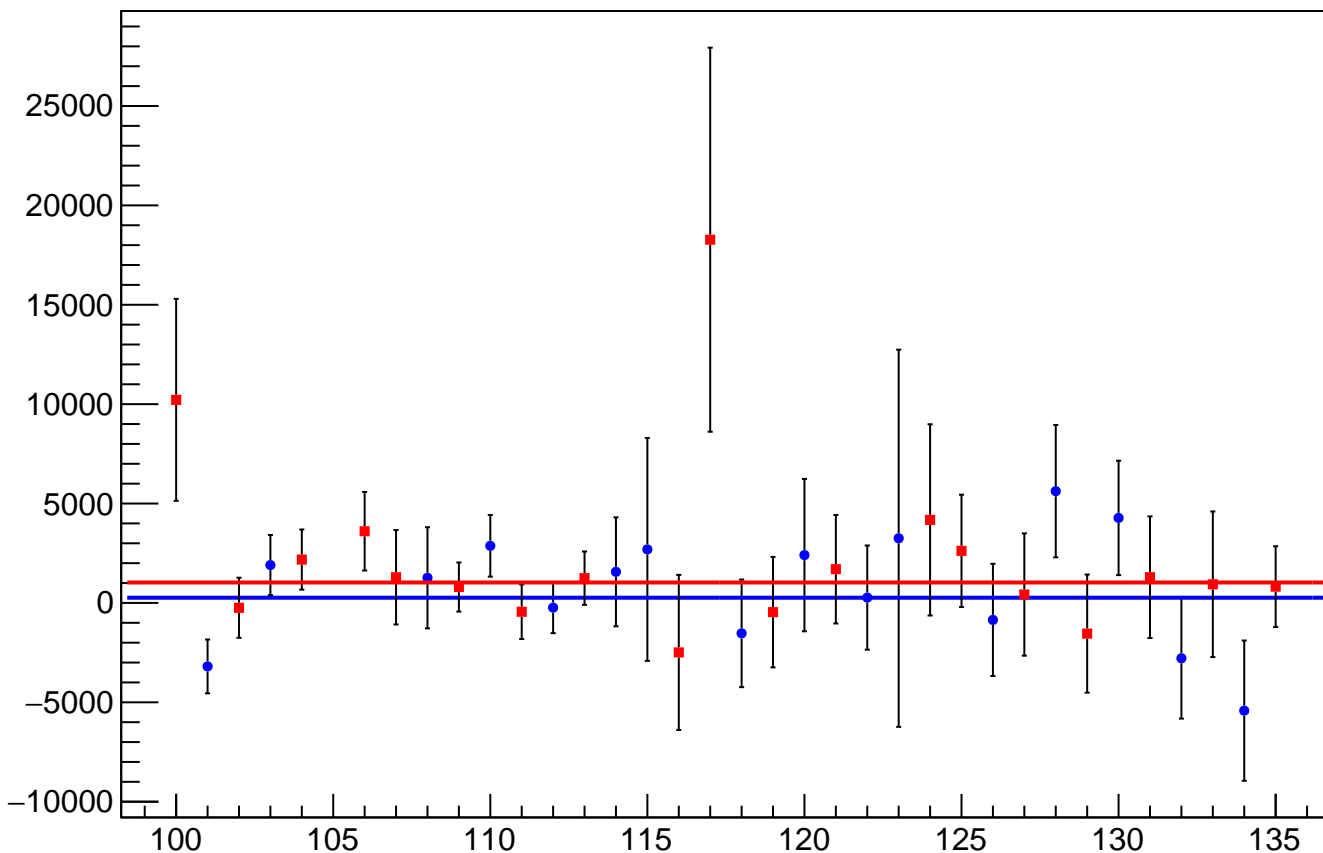
135.438+/-0.041  $\chi^2$ /NDF: 395218.1/15

133.882+/-0.027  $\chi^2$ /NDF: 843126.5/34

132.623+/-0.036  $\chi^2$ /NDF: 445240.2/18



# asym\_sam\_48\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 262.278+/-558.346  $\chi^2$ /NDF: 20.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1028.587+/-485.774  $\chi^2$ /NDF: 13.4/18

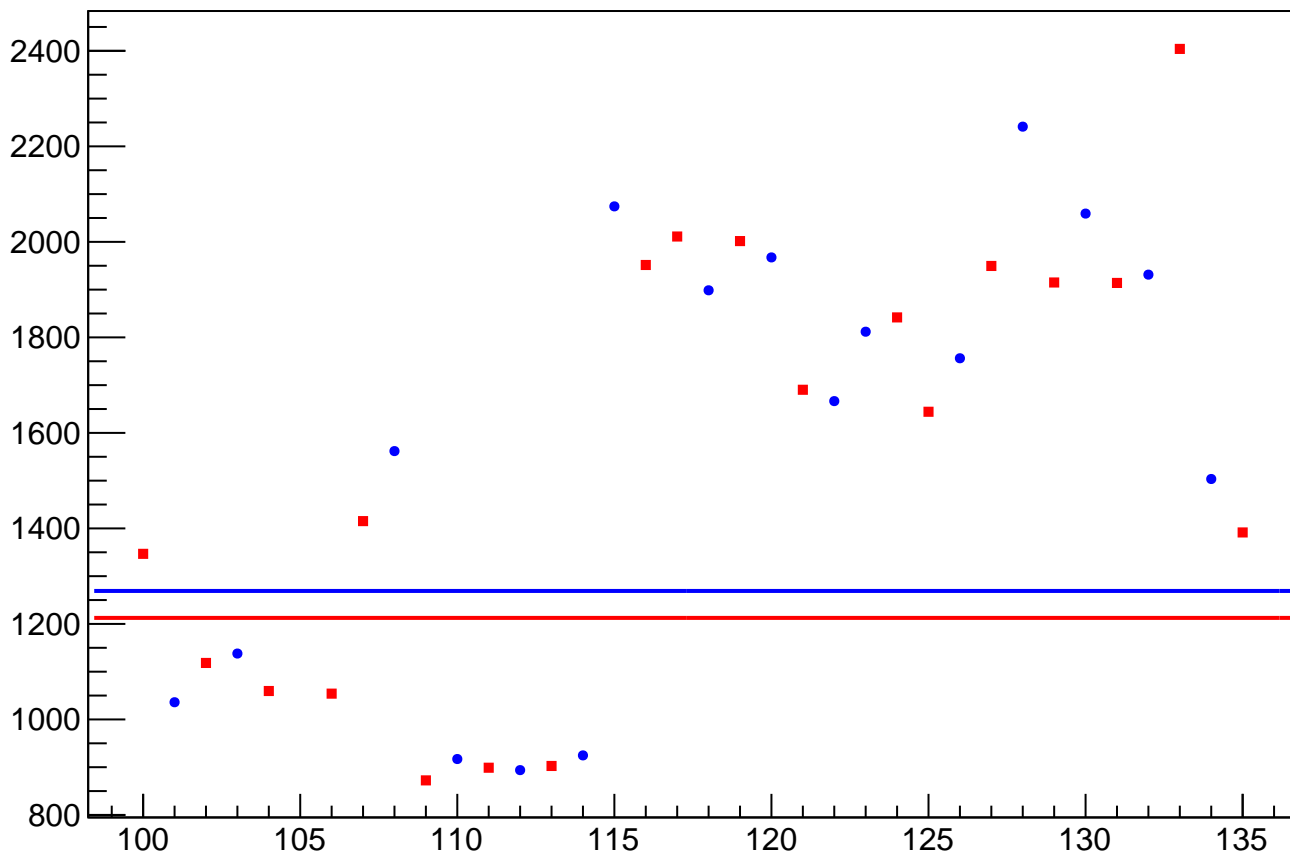
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

262.278+/-558.346  $\chi^2$ /NDF: 20.4/15

698.439+/-366.485  $\chi^2$ /NDF: 34.8/34

1028.587+/-485.774  $\chi^2$ /NDF: 13.4/18

# asym\_sam\_48\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1269.059+/-0.395  $\chi^2$ /NDF: 1158593.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1212.623+/-0.343  $\chi^2$ /NDF: 1367560.5/18

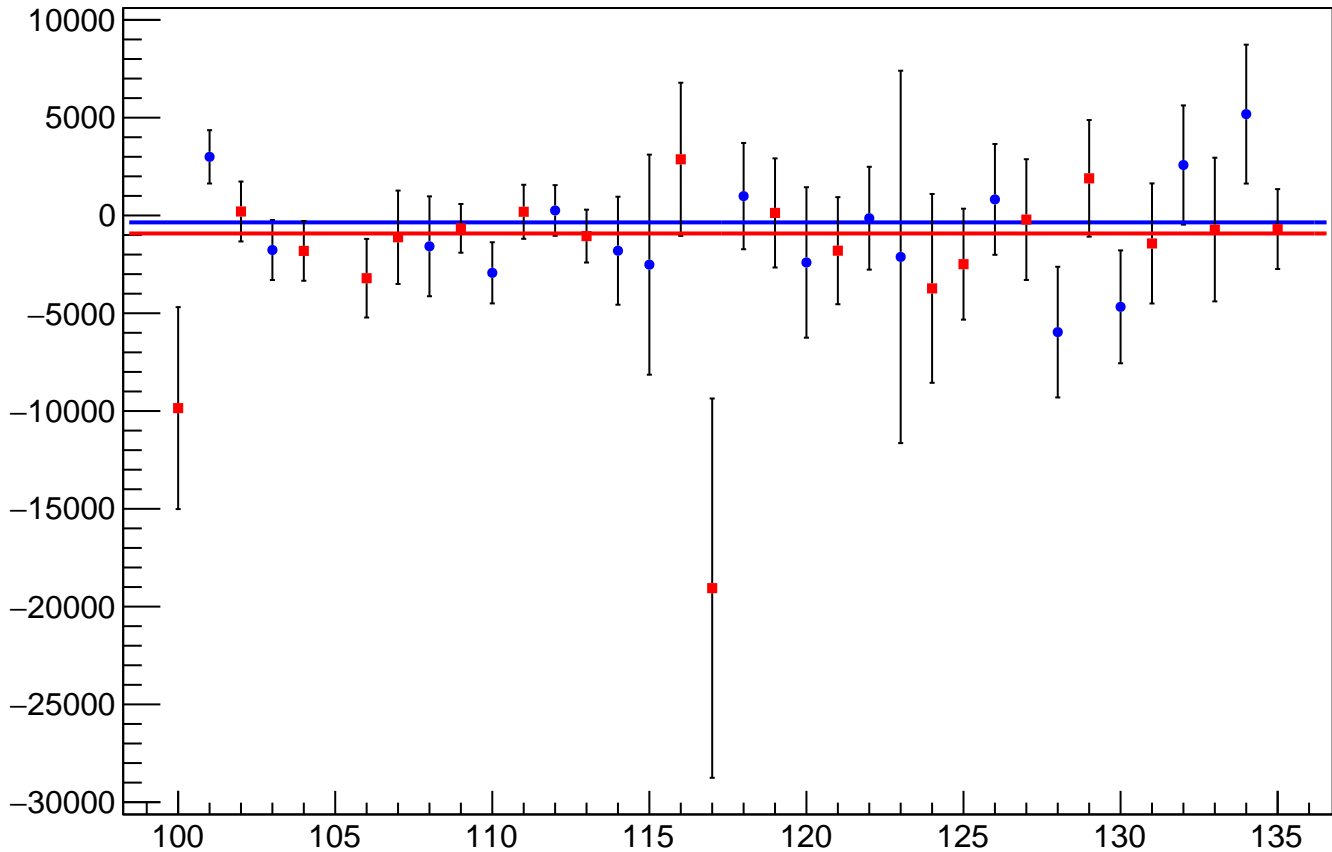
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1269.059+/-0.395  $\chi^2$ /NDF: 1158593.9/15

1236.937+/-0.259  $\chi^2$ /NDF: 2537784.6/34

1212.623+/-0.343  $\chi^2$ /NDF: 1367560.5/18

# asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In:  $-353.885 \pm 562.147$   $\chi^2/\text{NDF}$ : 19.6/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-920.724 \pm 489.525$   $\chi^2/\text{NDF}$ : 12.2/18

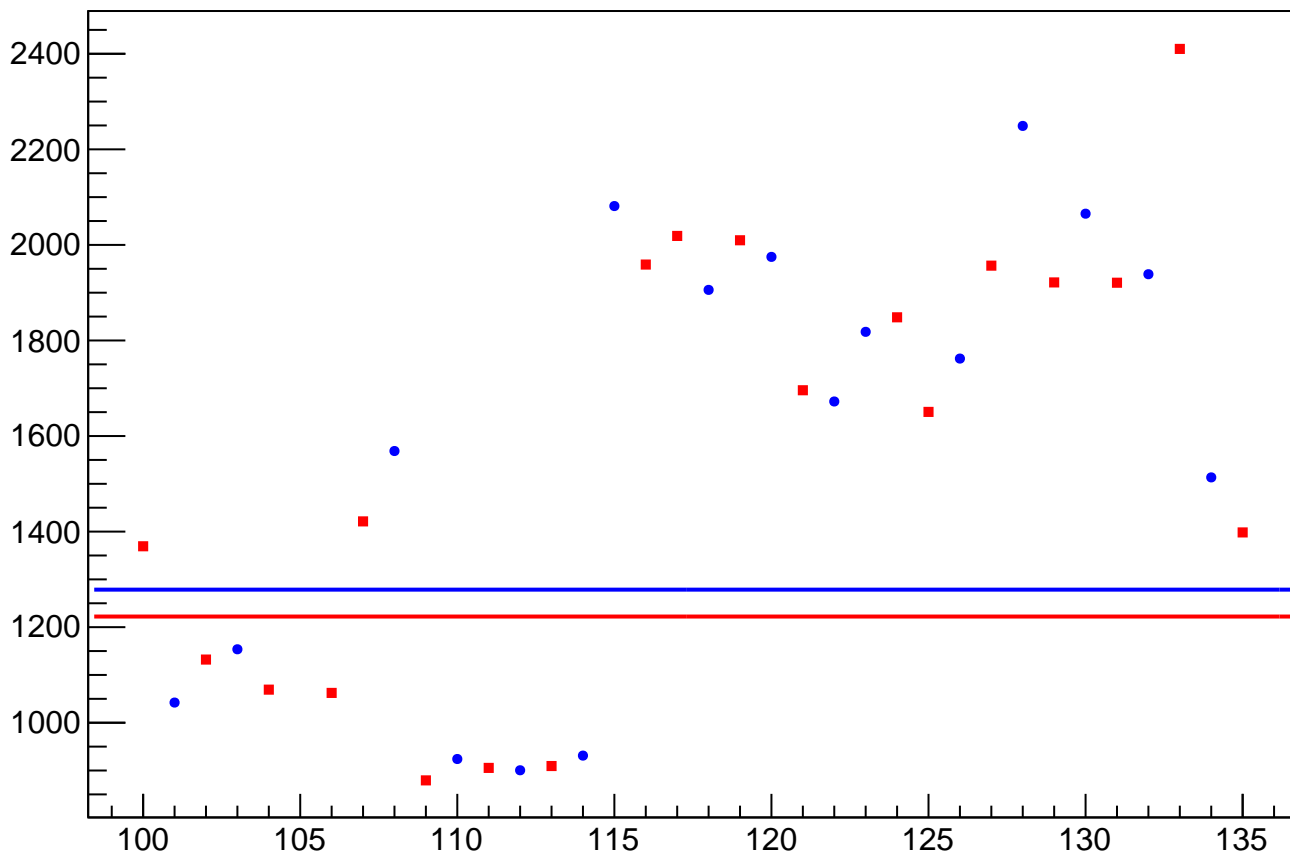
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-353.885 \pm 562.147$   $\chi^2/\text{NDF}$ : 19.6/15

$-676.261 \pm 369.170$   $\chi^2/\text{NDF}$ : 32.4/34

$-920.724 \pm 489.525$   $\chi^2/\text{NDF}$ : 12.2/18

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 1278.521+/-0.397  $\chi^2/\text{NDF}$ : 1146451.5/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1222.239+/-0.346  $\chi^2/\text{NDF}$ : 1352620.3/18

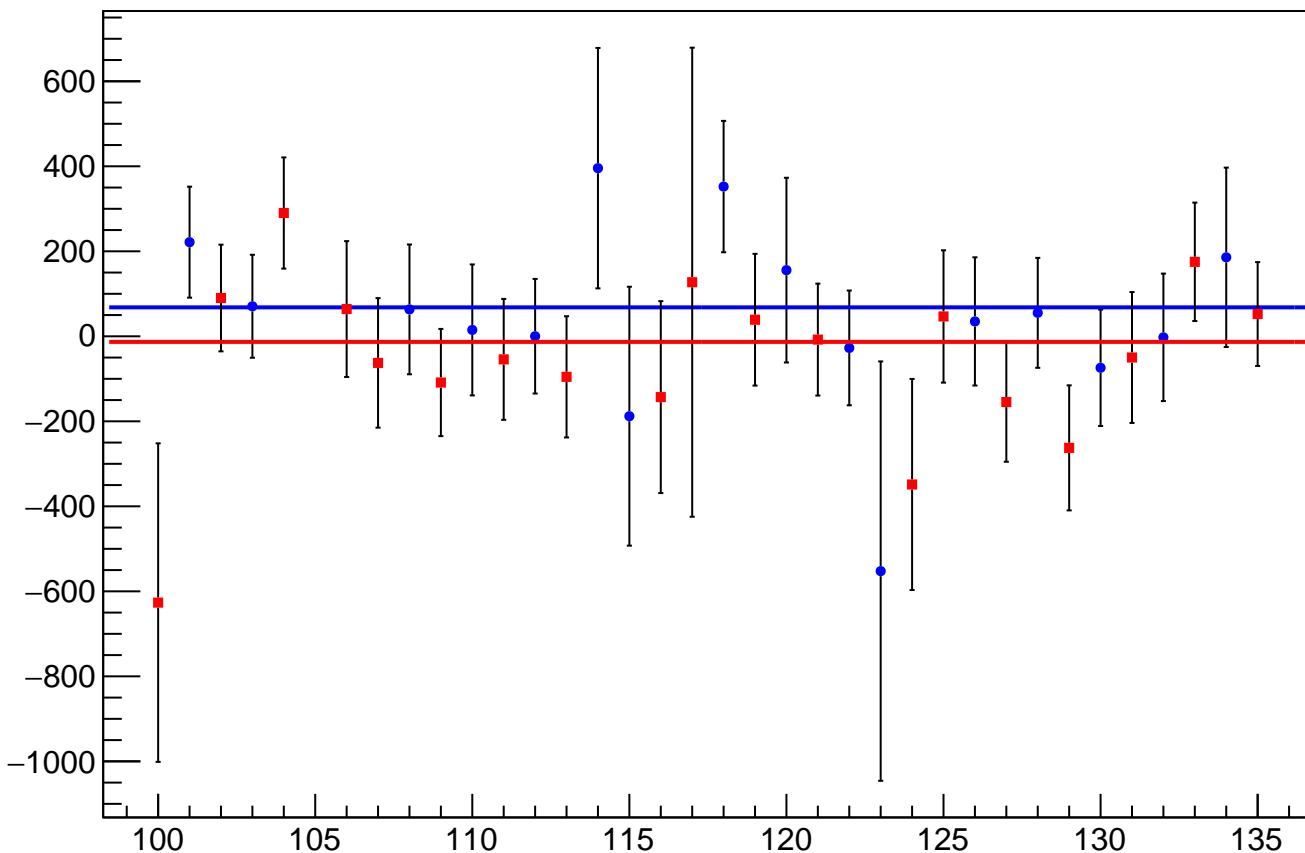
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1278.521+/-0.397  $\chi^2/\text{NDF}$ : 1146451.5/15

1246.512+/-0.261  $\chi^2/\text{NDF}$ : 2510473.8/34

1222.239+/-0.346  $\chi^2/\text{NDF}$ : 1352620.3/18

# reg\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 68.125+/-39.651  $\chi^2$ /NDF: 11.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -13.133+/-35.136  $\chi^2$ /NDF: 18.6/18

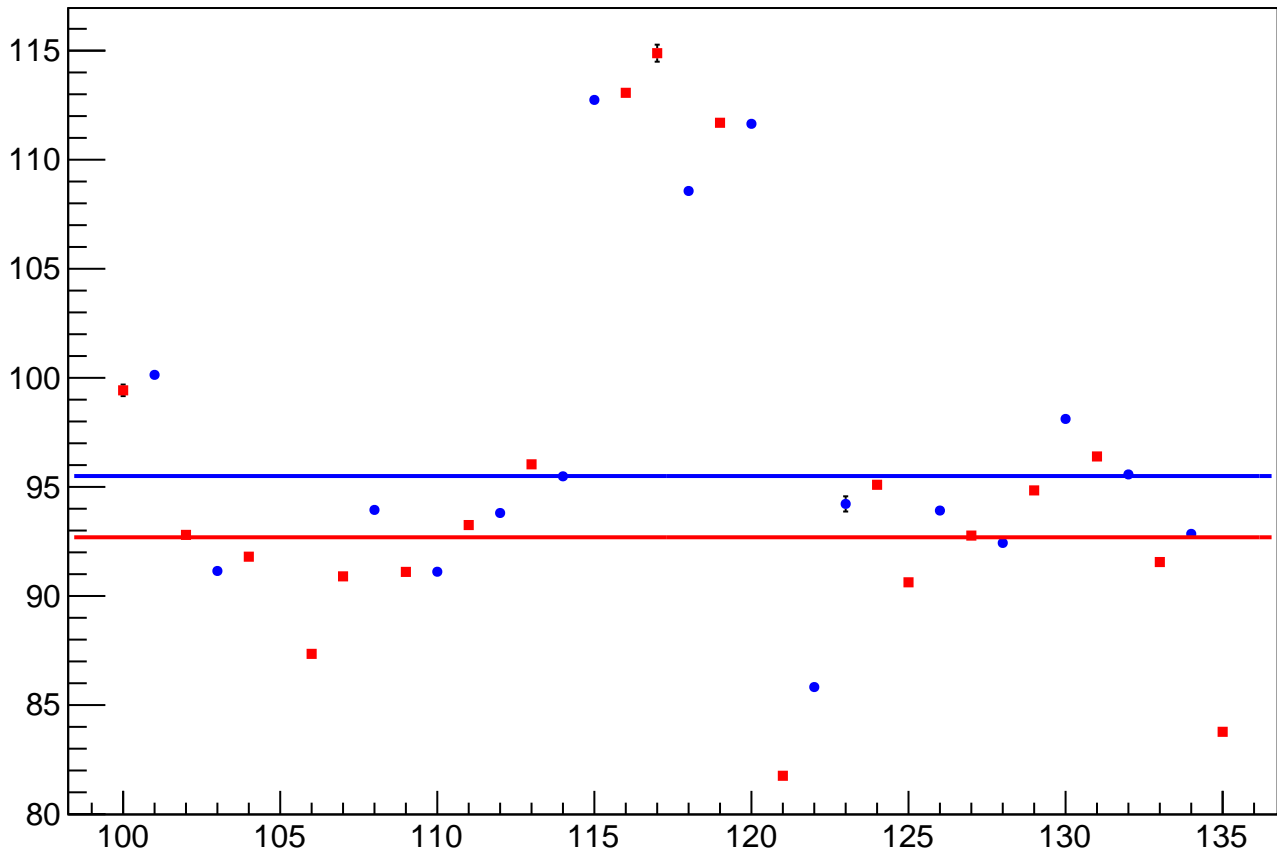
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

68.125+/-39.651  $\chi^2$ /NDF: 11.1/15

22.608+/-26.297  $\chi^2$ /NDF: 32.0/34

-13.133+/-35.136  $\chi^2$ /NDF: 18.6/18

# reg\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 95.499+/-0.028  $\chi^2$ /NDF: 51673.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 92.691+/-0.025  $\chi^2$ /NDF: 80993.9/18

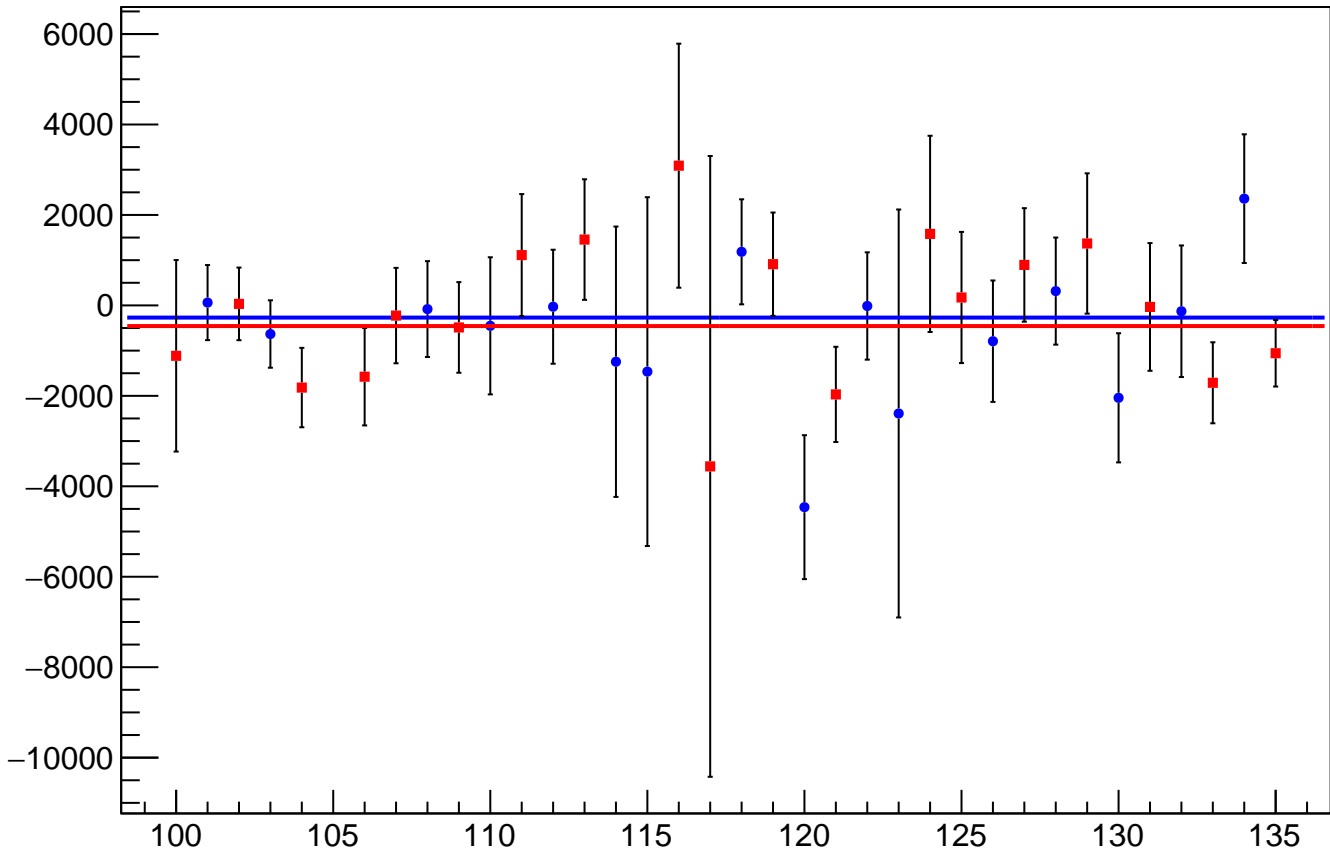
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

95.499+/-0.028  $\chi^2$ /NDF: 51673.5/15

93.926+/-0.019  $\chi^2$ /NDF: 138284.0/34

92.691+/-0.025  $\chi^2$ /NDF: 80993.9/18

# asym\_sam\_15\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -269.478+/-316.150  $\chi^2$ /NDF: 14.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -457.039+/-266.318  $\chi^2$ /NDF: 19.2/18

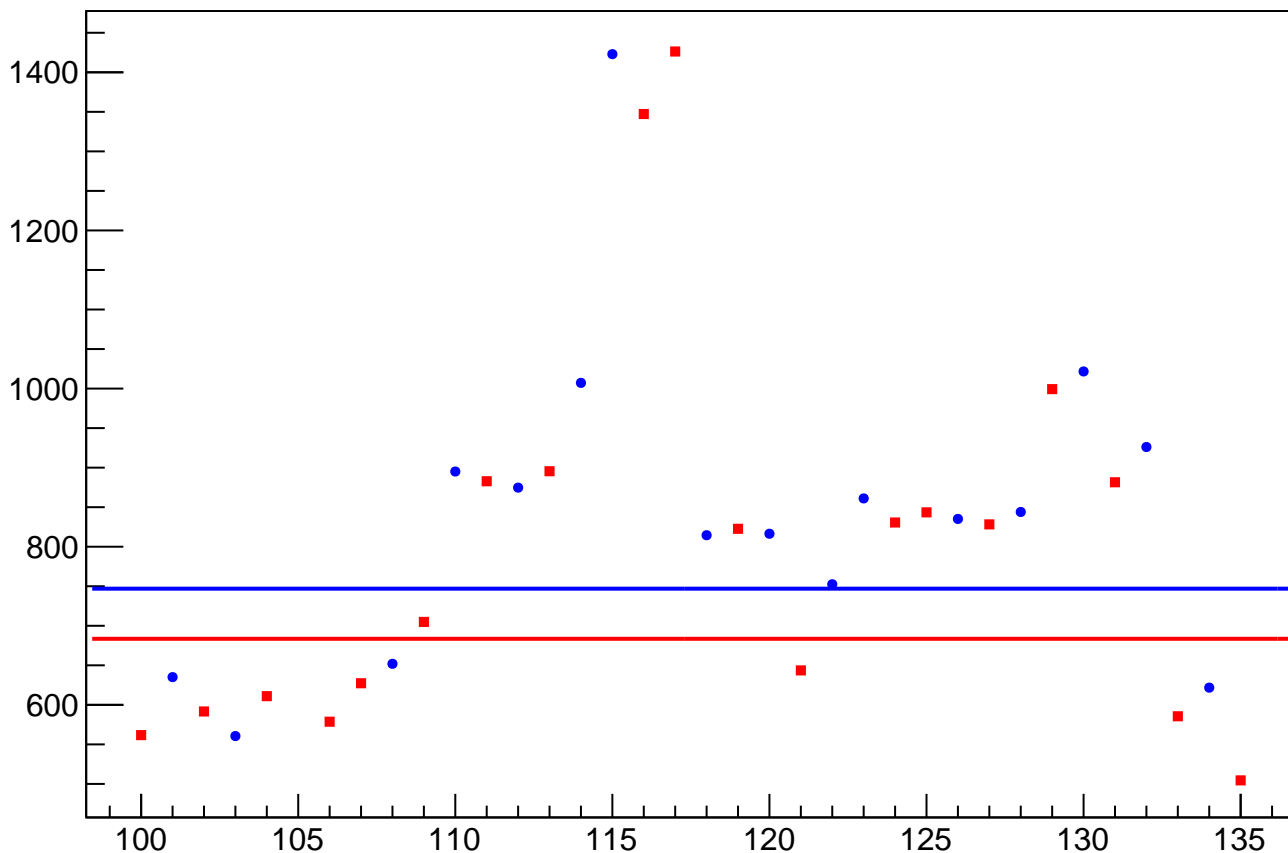
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-269.478+/-316.150  $\chi^2$ /NDF: 14.8/15

-379.188+/-203.682  $\chi^2$ /NDF: 34.2/34

-457.039+/-266.318  $\chi^2$ /NDF: 19.2/18

# asym\_sam\_15\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 746.940+/-0.224  $\chi^2$ /NDF: 447523.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 683.534+/-0.188  $\chi^2$ /NDF: 667768.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

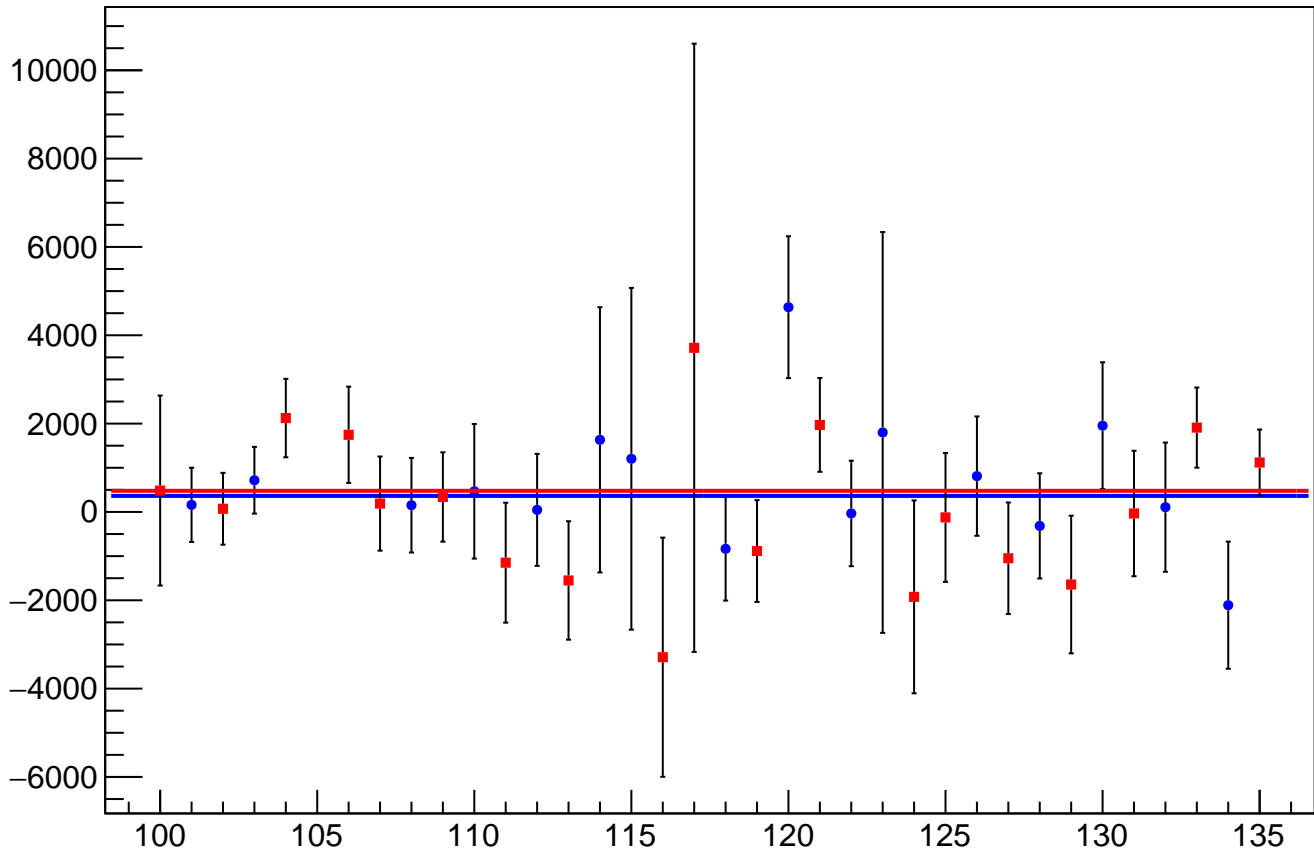
746.940+/-0.224  $\chi^2$ /NDF: 447523.1/15

709.852+/-0.144  $\chi^2$ /NDF: 1162346.9/34

683.534+/-0.188  $\chi^2$ /NDF: 667768.1/18



# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 363.050+/-319.037  $\chi^2$ /NDF: 13.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 479.077+/-269.012  $\chi^2$ /NDF: 22.5/18

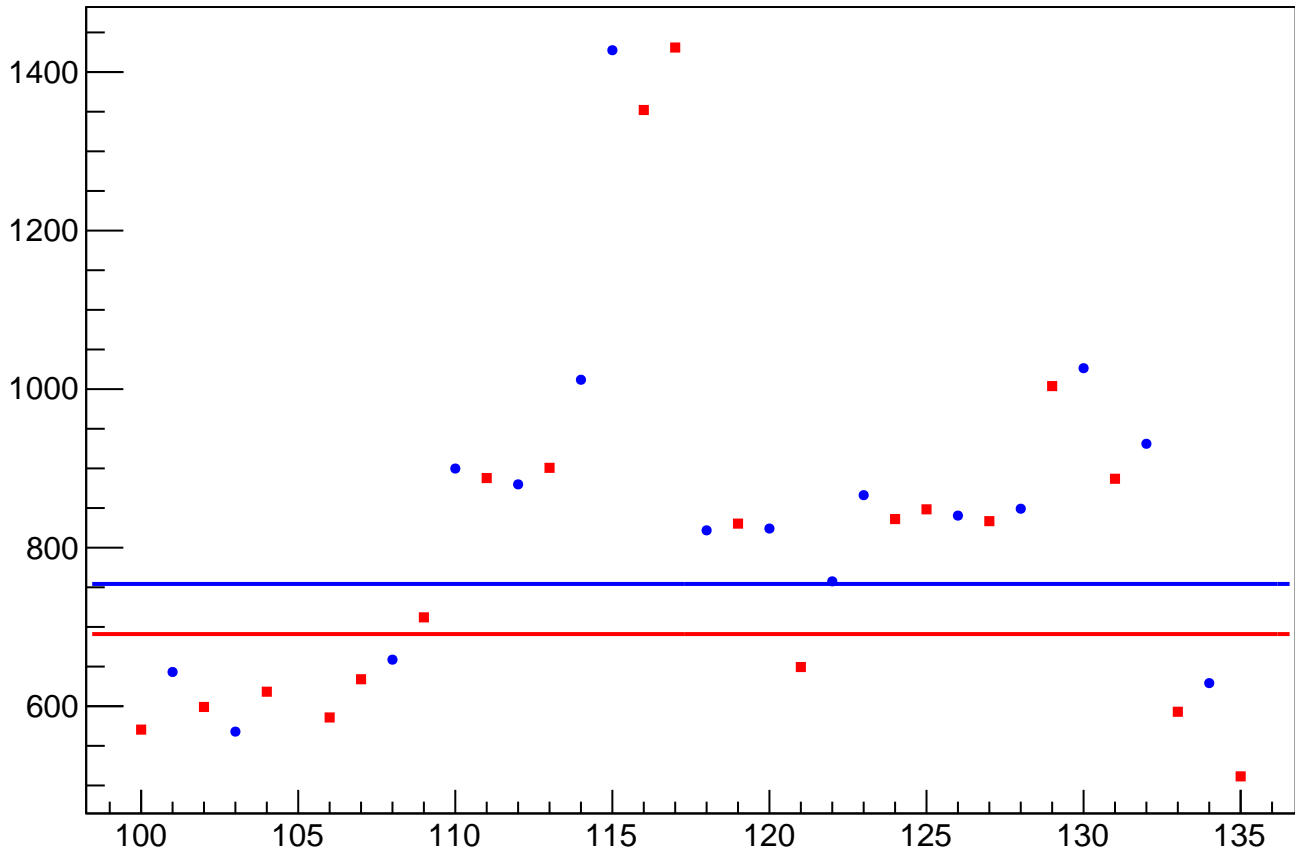
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

363.050+/-319.037  $\chi^2$ /NDF: 13.6/15

430.863+/-205.659  $\chi^2$ /NDF: 36.1/34

479.077+/-269.012  $\chi^2$ /NDF: 22.5/18

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 754.243+/-0.226  $\chi^2$ /NDF: 434565.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 691.001+/-0.190  $\chi^2$ /NDF: 651447.1/18

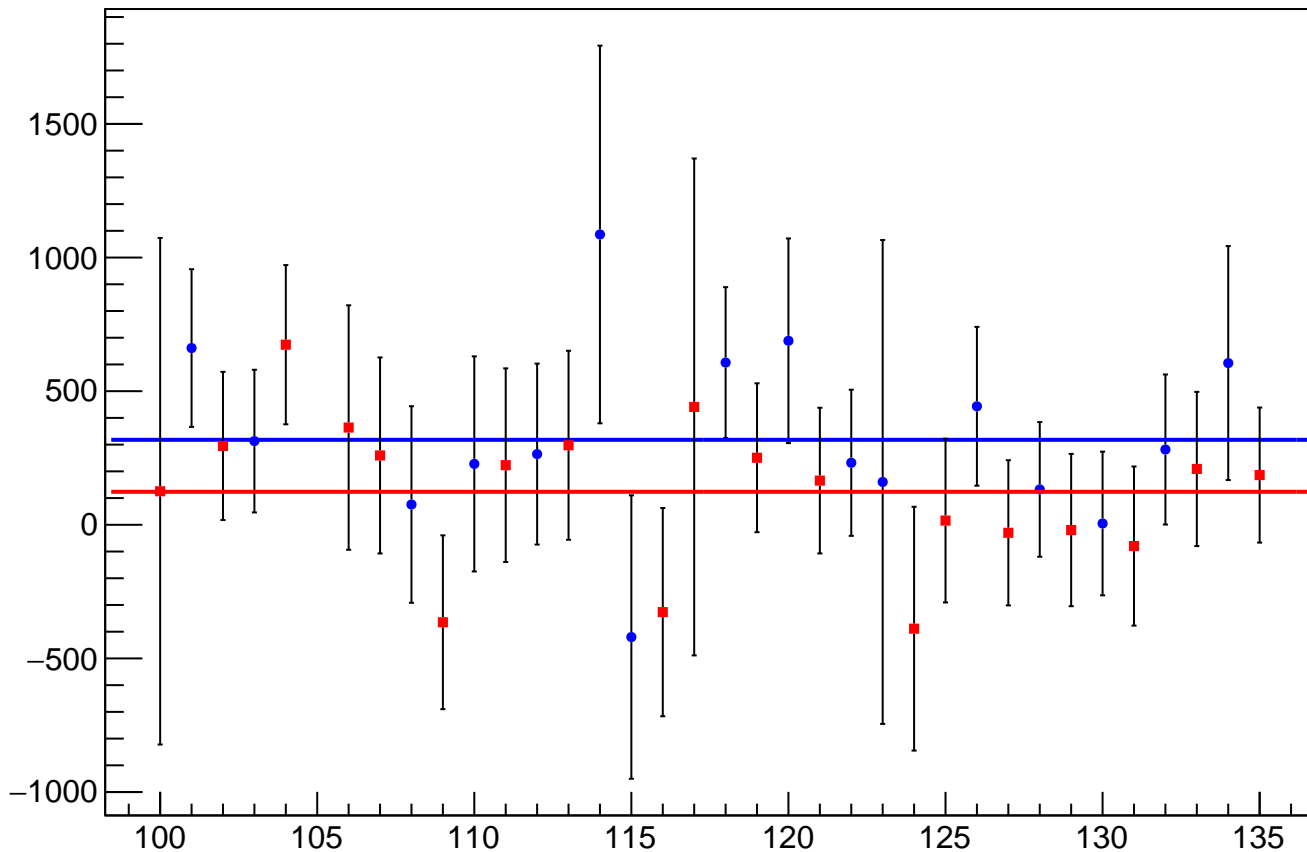
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

754.243+/-0.226  $\chi^2$ /NDF: 434565.7/15

717.281+/-0.145  $\chi^2$ /NDF: 1131944.2/34

691.001+/-0.190  $\chi^2$ /NDF: 651447.1/18

# reg\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 317.996 $\pm$ 82.710  $\chi^2$ /NDF: 9.6/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 123.526 $\pm$ 75.154  $\chi^2$ /NDF: 11.0/18

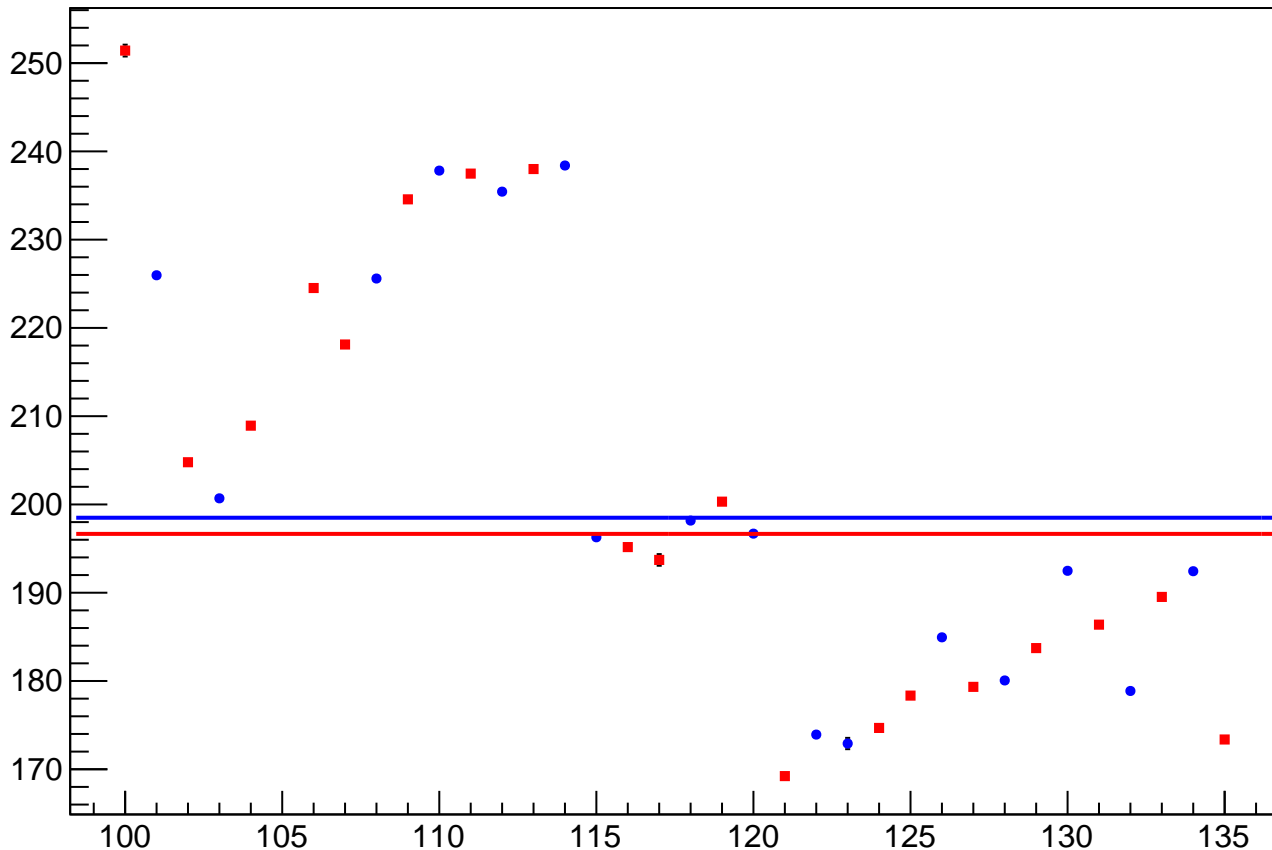
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

317.996 $\pm$ 82.710  $\chi^2$ /NDF: 9.6/15

211.474 $\pm$ 55.622  $\chi^2$ /NDF: 23.7/34

123.526 $\pm$ 75.154  $\chi^2$ /NDF: 11.0/18

# reg\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 198.496+/-0.058  $\chi^2$ /NDF: 121470.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 196.665+/-0.053  $\chi^2$ /NDF: 171241.8/18

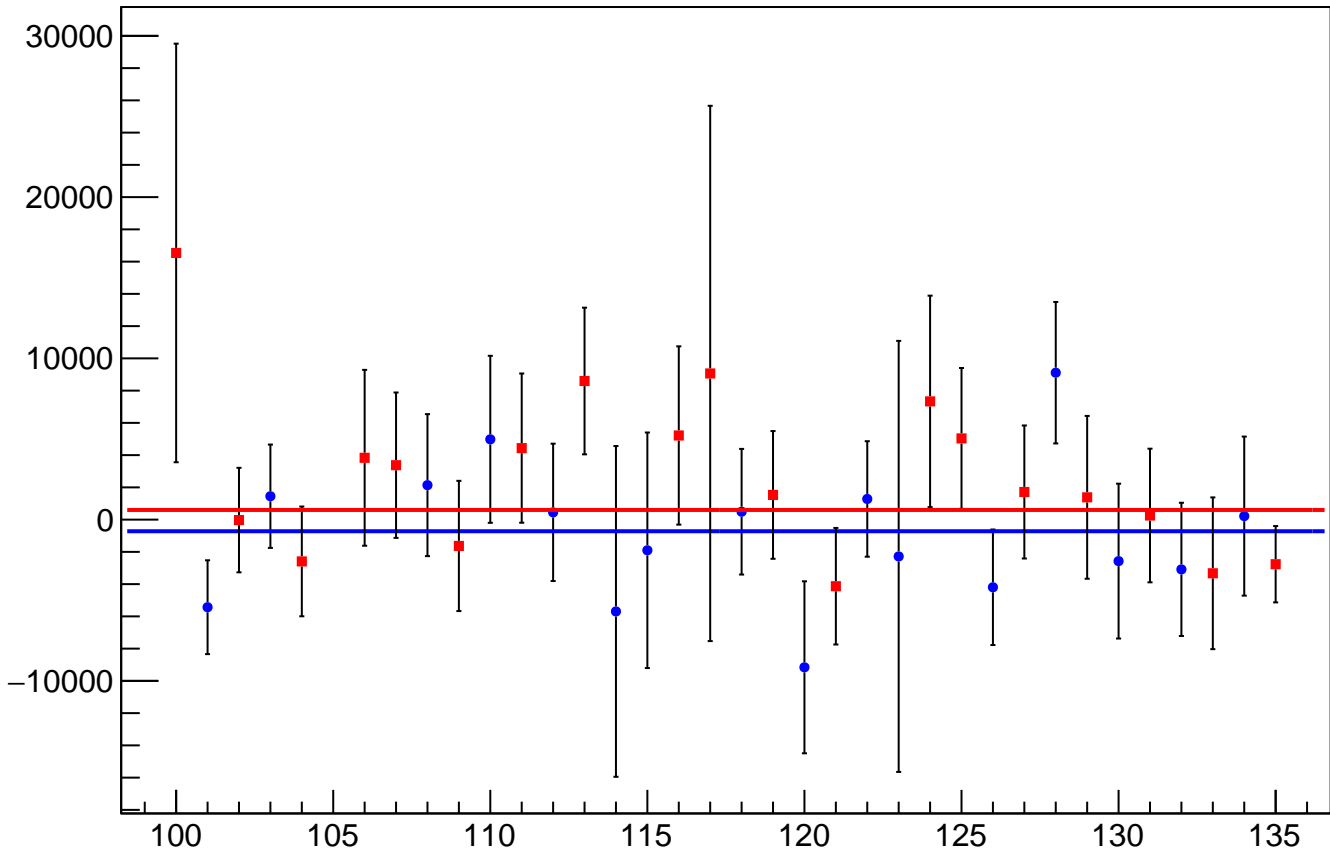
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

198.496+/-0.058  $\chi^2$ /NDF: 121470.4/15

197.493+/-0.039  $\chi^2$ /NDF: 293249.0/34

196.665+/-0.053  $\chi^2$ /NDF: 171241.8/18

# asym\_sam\_26\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -720.142+/-1087.683  $\chi^2$ /NDF: 14.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 599.929+/-971.765  $\chi^2$ /NDF: 14.9/18

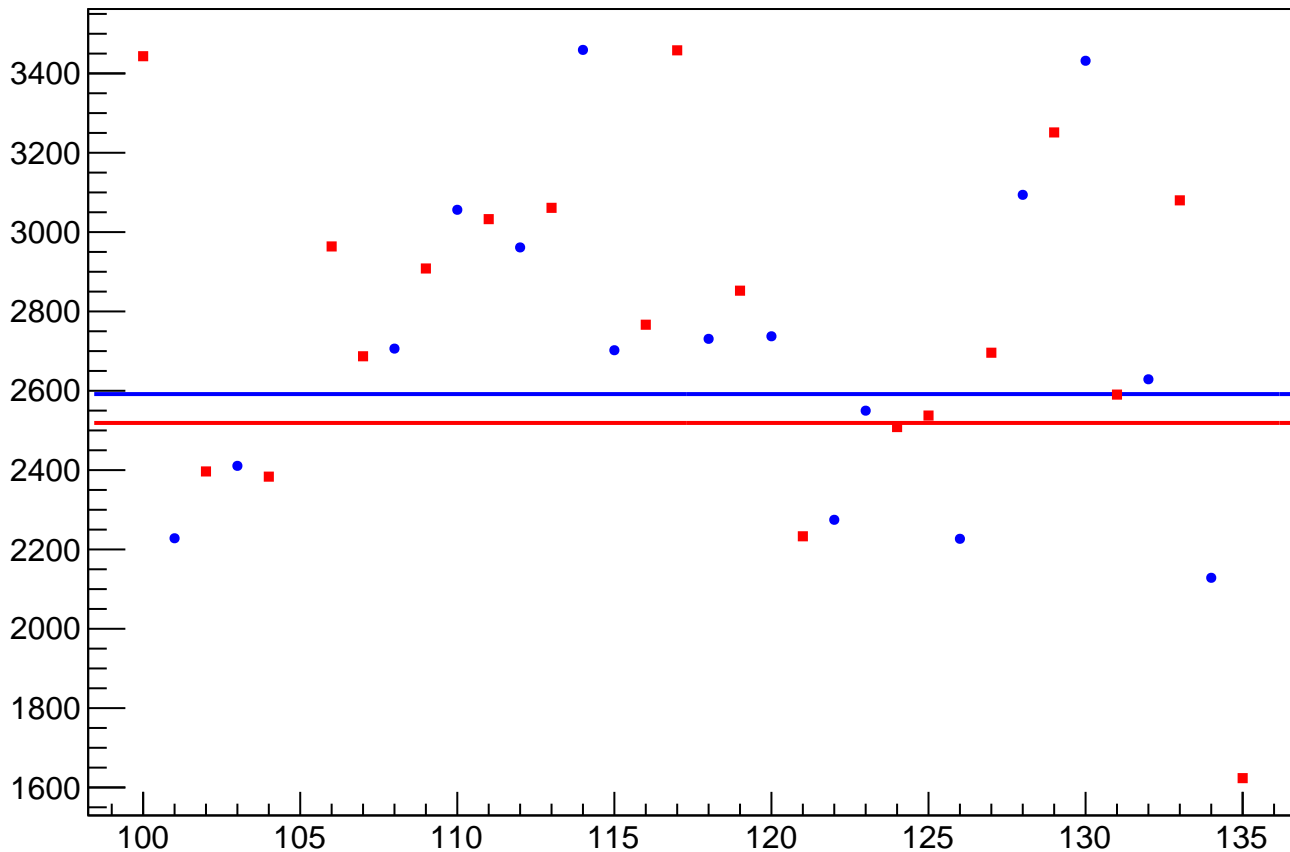
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-720.142+/-1087.683  $\chi^2$ /NDF: 14.5/15

13.960+/-724.671  $\chi^2$ /NDF: 30.1/34

599.929+/-971.765  $\chi^2$ /NDF: 14.9/18

# asym\_sam\_26\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 2591.662+/-0.769  $\chi^2$ /NDF: 230609.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2518.895+/-0.687  $\chi^2$ /NDF: 501995.7/18

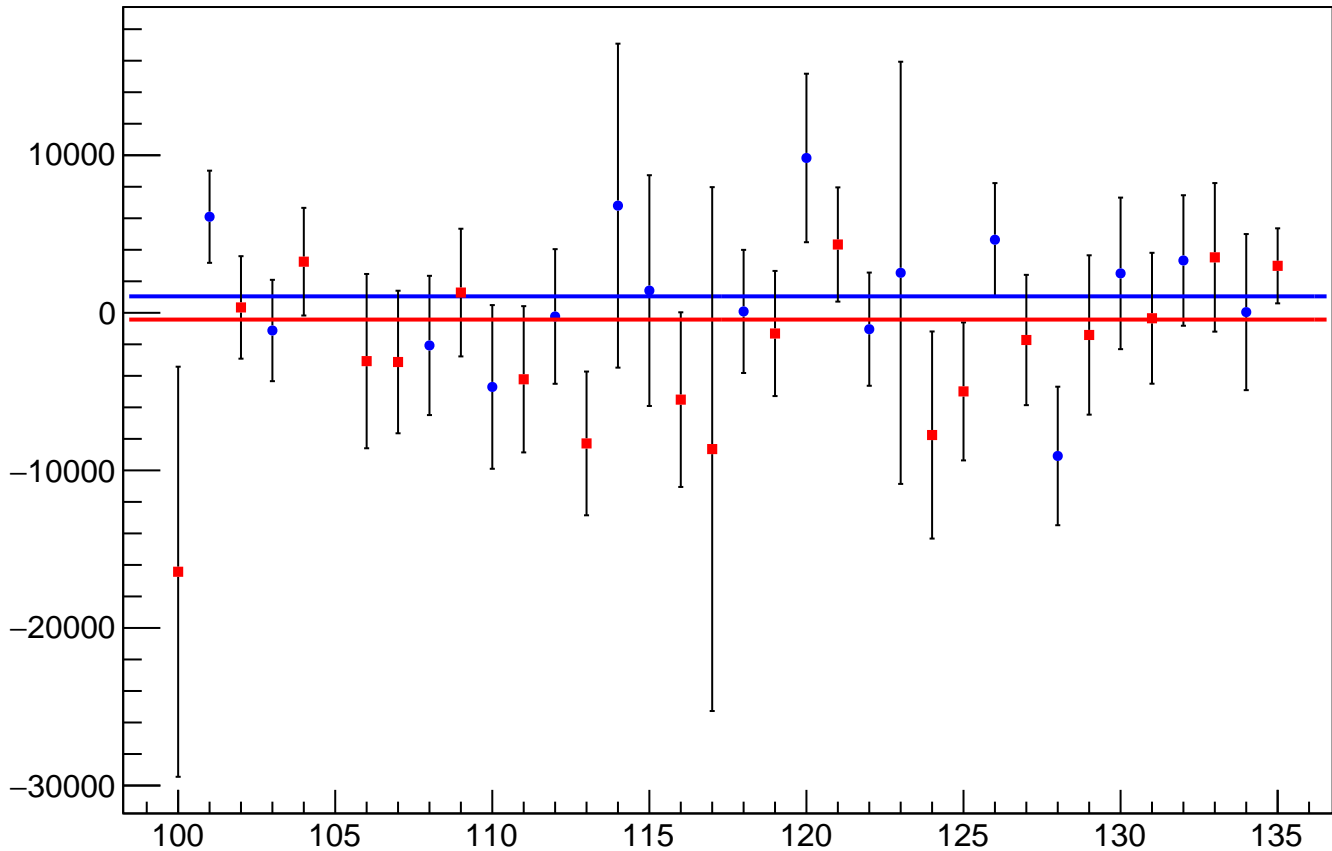
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2591.662+/-0.769  $\chi^2$ /NDF: 230609.6/15

2551.196+/-0.512  $\chi^2$ /NDF: 737583.4/34

2518.895+/-0.687  $\chi^2$ /NDF: 501995.7/18

# asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 1044.825+/-1091.237  $\chi^2$ /NDF: 15.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -428.595+/-975.409  $\chi^2$ /NDF: 15.2/18

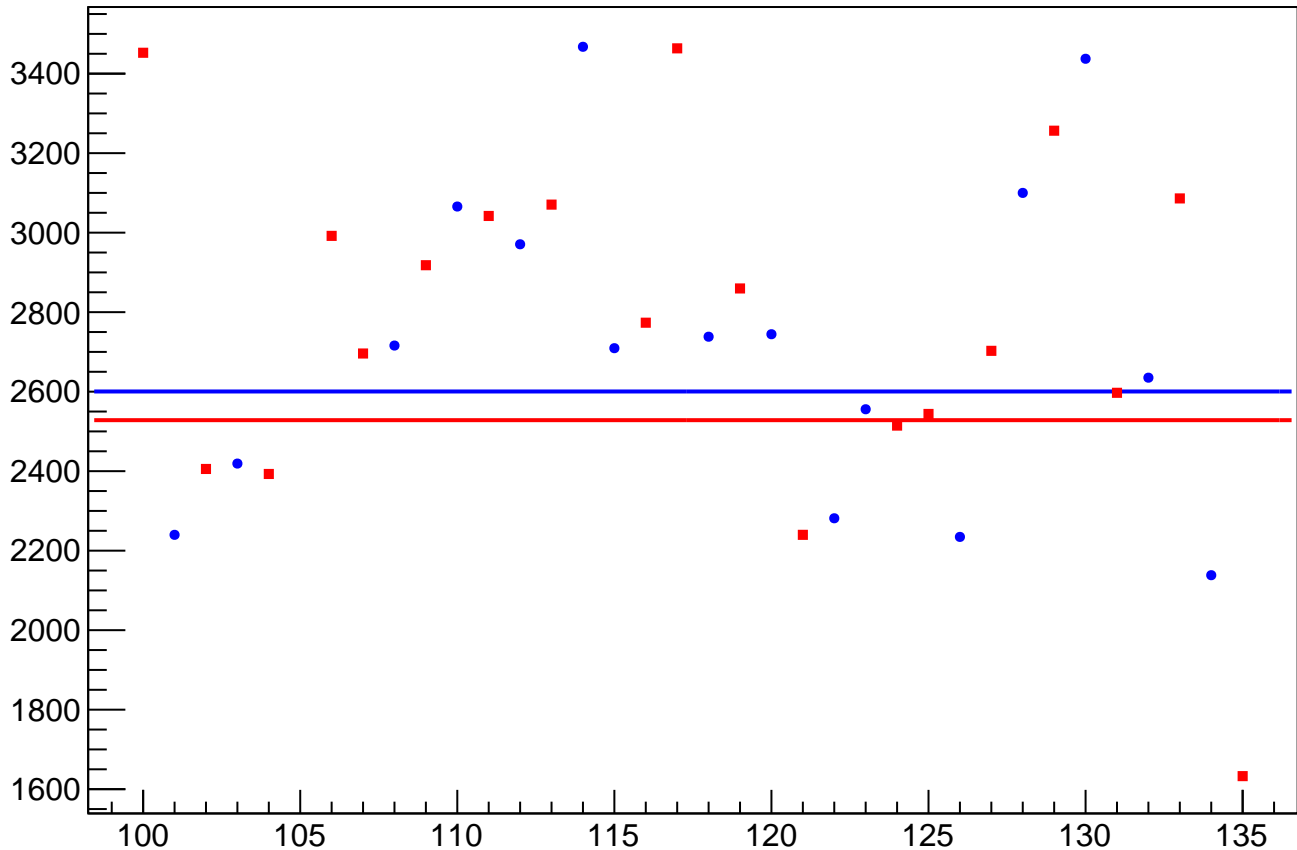
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1044.825+/-1091.237  $\chi^2$ /NDF: 15.4/15

225.794+/-727.233  $\chi^2$ /NDF: 31.6/34

-428.595+/-975.409  $\chi^2$ /NDF: 15.2/18

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 2600.467+/-0.772  $\chi^2$ /NDF: 228276.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2528.289+/-0.690  $\chi^2$ /NDF: 497511.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

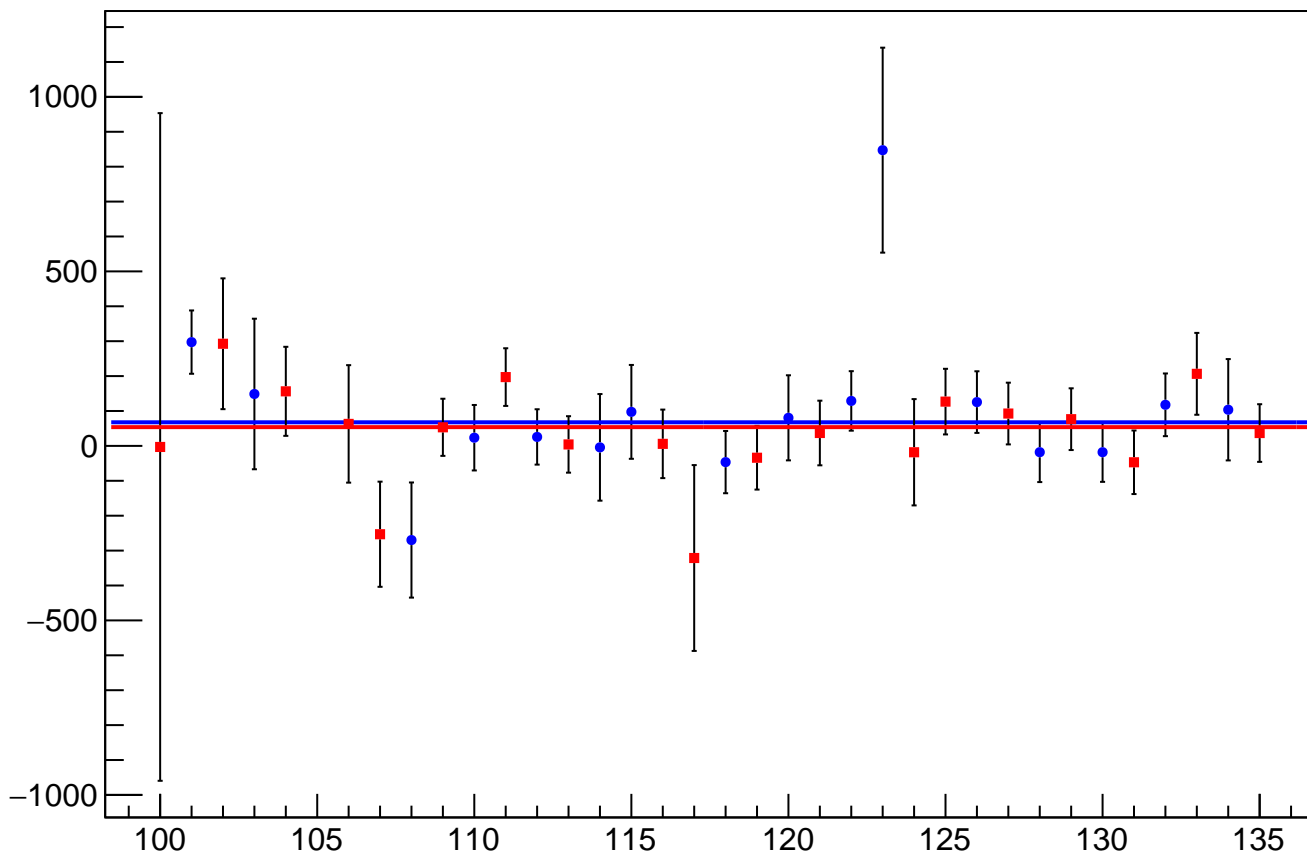
2600.467+/-0.772  $\chi^2$ /NDF: 228276.2/15

2560.345+/-0.514  $\chi^2$ /NDF: 730652.0/34

2528.289+/-0.690  $\chi^2$ /NDF: 497511.9/18



# reg\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 67.605 $\pm$ 26.109  $\chi^2$ /NDF: 23.5/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.748 $\pm$ 24.073  $\chi^2$ /NDF: 17.0/18

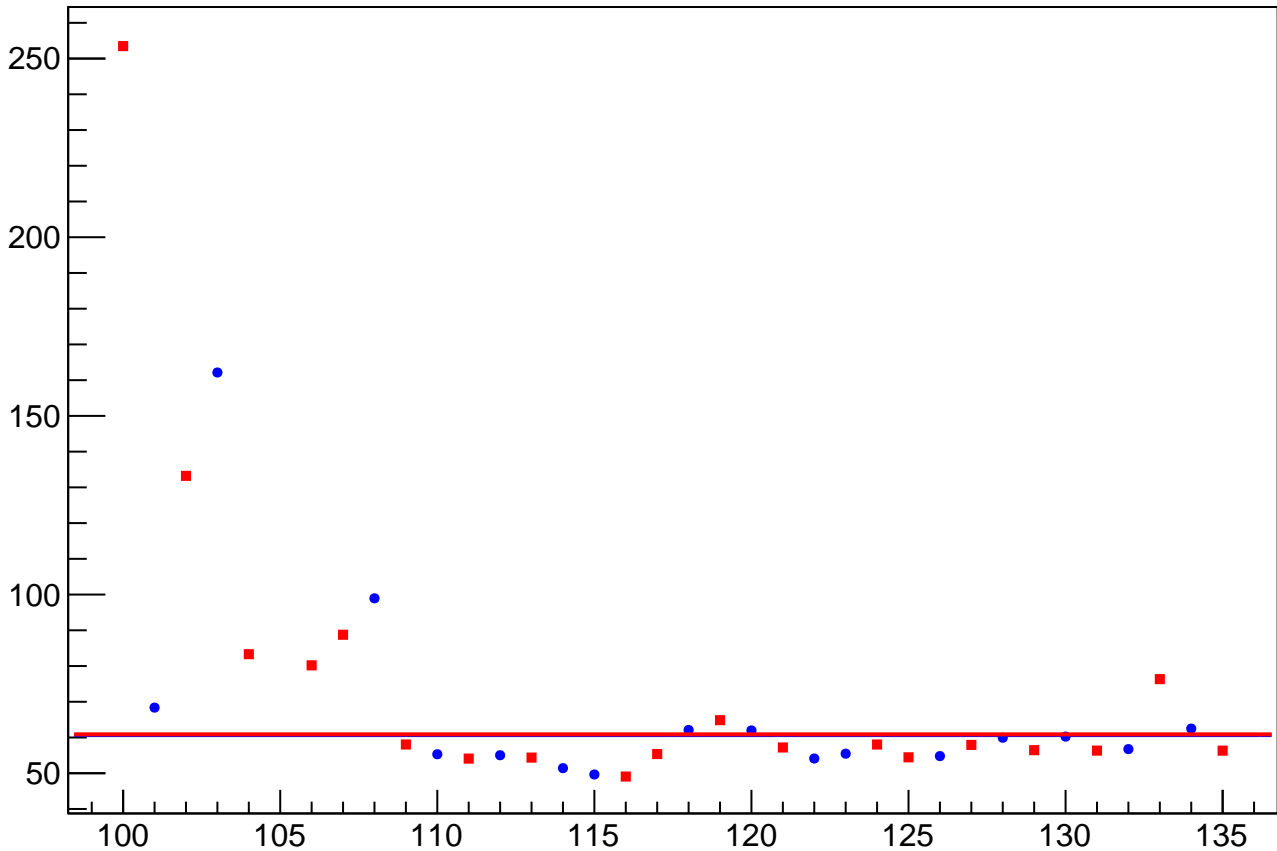
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

67.605 $\pm$ 26.109  $\chi^2$ /NDF: 23.5/15

60.115 $\pm$ 17.698  $\chi^2$ /NDF: 40.7/34

53.748 $\pm$ 24.073  $\chi^2$ /NDF: 17.0/18

# reg\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 60.677+/-0.018  $\chi^2$ /NDF: 628491.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 60.885+/-0.017  $\chi^2$ /NDF: 664537.1/18

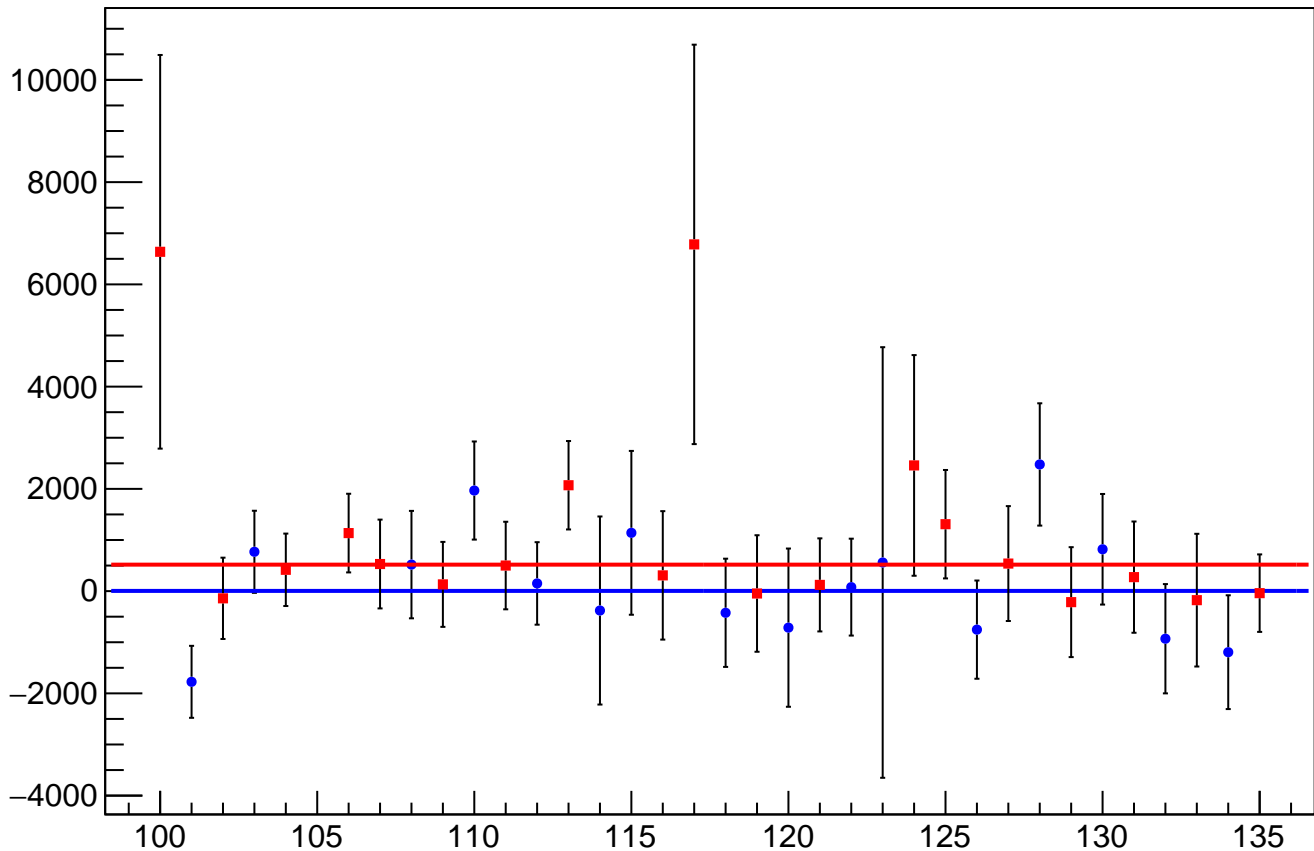
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

60.677+/-0.018  $\chi^2$ /NDF: 628491.0/15

60.790+/-0.013  $\chi^2$ /NDF: 1293096.7/34

60.885+/-0.017  $\chi^2$ /NDF: 664537.1/18

# asym\_sam\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 4.157+/-261.886  $\chi^2$ /NDF: 20.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 517.894+/-226.910  $\chi^2$ /NDF: 13.1/18

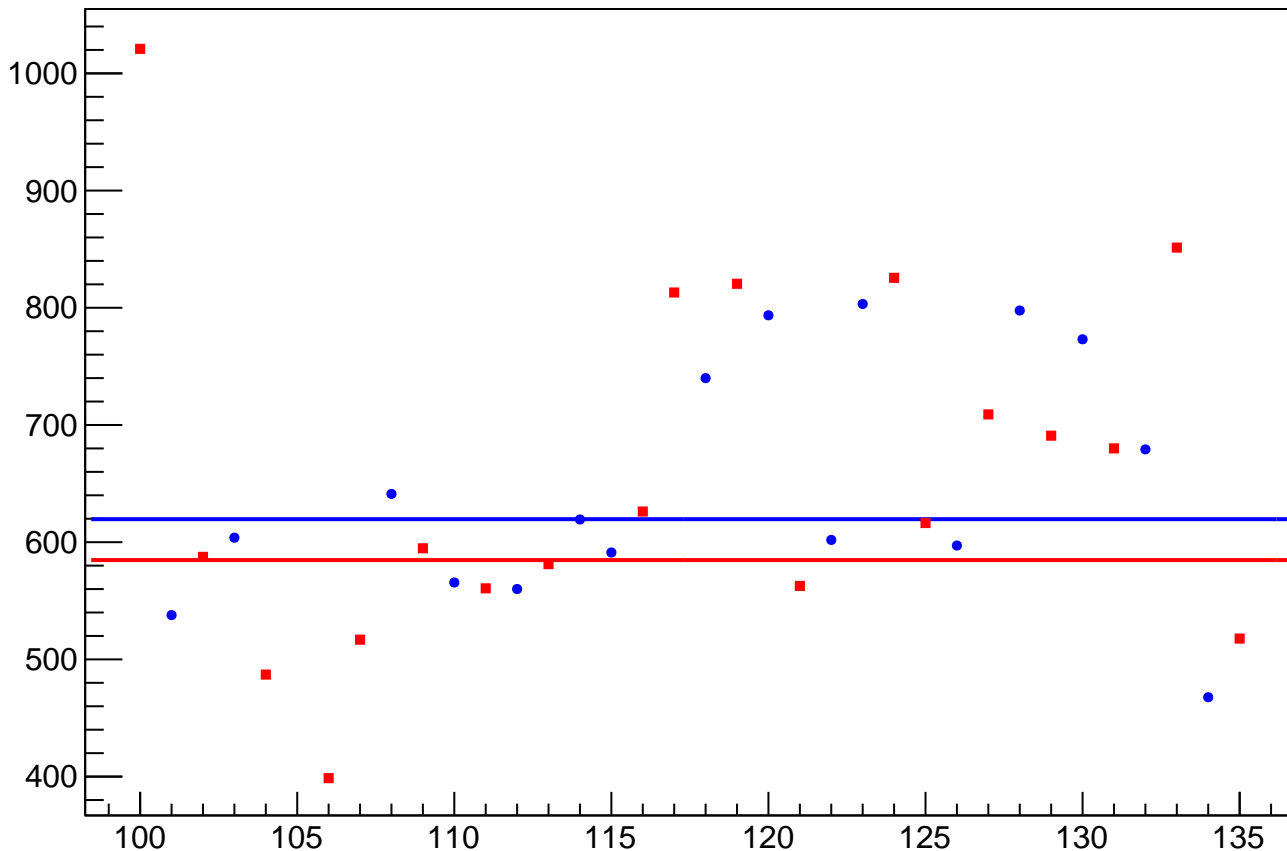
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

4.157+/-261.886  $\chi^2$ /NDF: 20.1/15

297.599+/-171.492  $\chi^2$ /NDF: 35.3/34

517.894+/-226.910  $\chi^2$ /NDF: 13.1/18

# asym\_sam\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 619.622+/-0.185  $\chi^2$ /NDF: 231252.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 584.731+/-0.160  $\chi^2$ /NDF: 476615.4/18

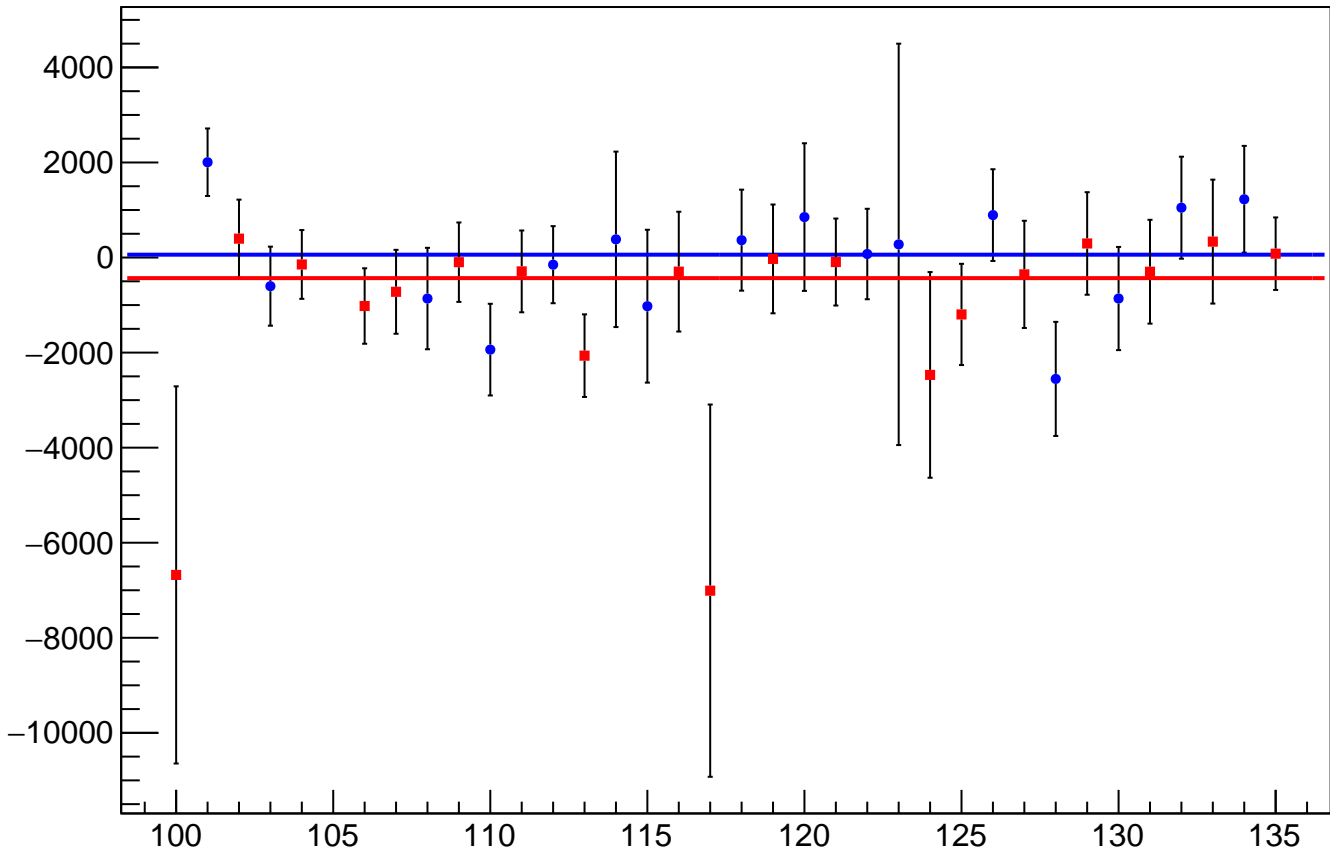
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

619.622+/-0.185  $\chi^2$ /NDF: 231252.7/15

599.692+/-0.121  $\chi^2$ /NDF: 728145.6/34

584.731+/-0.160  $\chi^2$ /NDF: 476615.4/18

# asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 60.213+/-264.241  $\chi^2$ /NDF: 22.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -433.303+/-229.554  $\chi^2$ /NDF: 13.8/18

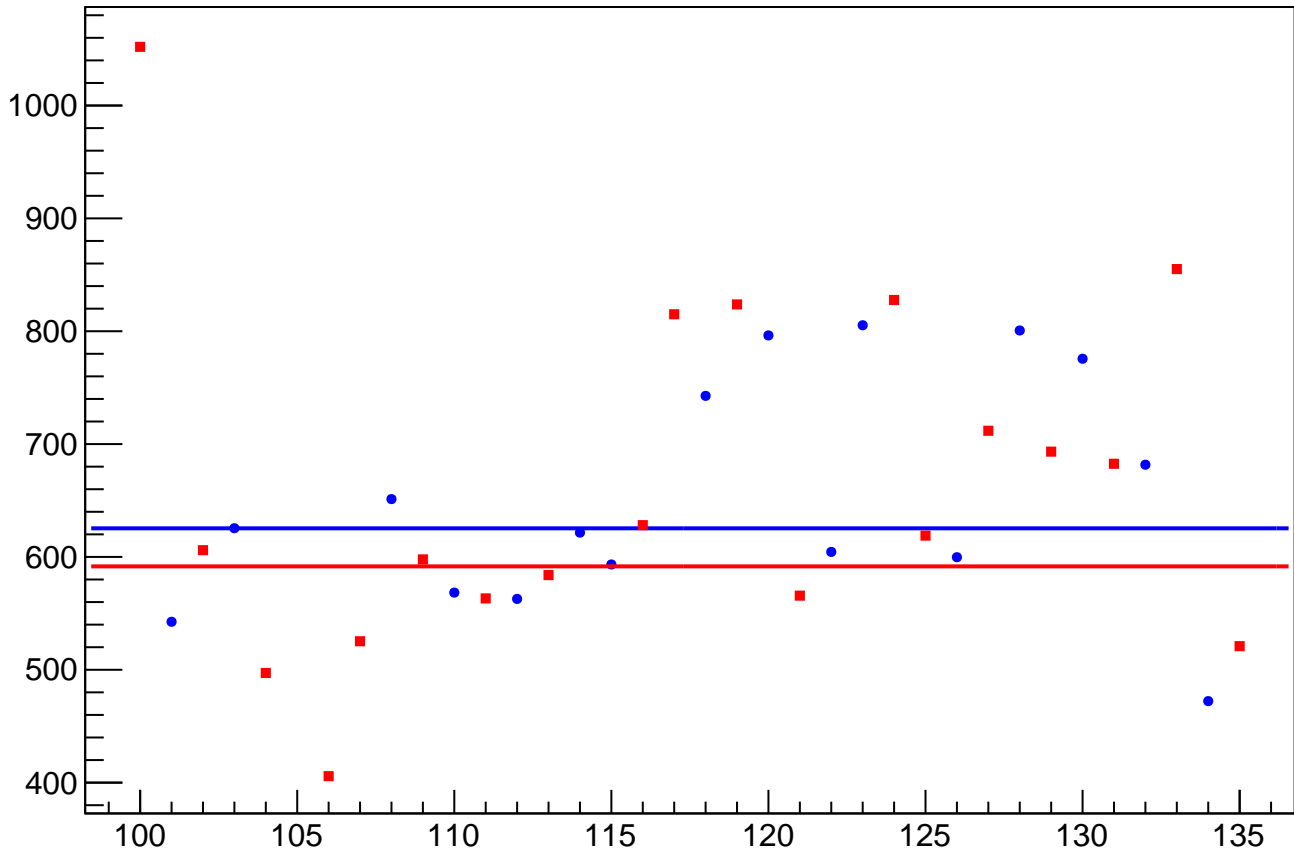
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

60.213+/-264.241  $\chi^2$ /NDF: 22.2/15

-221.042+/-173.294  $\chi^2$ /NDF: 38.0/34

-433.303+/-229.554  $\chi^2$ /NDF: 13.8/18

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 625.360 $\pm$ 0.187  $\chi^2$ /NDF: 226375.5/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 591.636 $\pm$ 0.162  $\chi^2$ /NDF: 455412.7/18

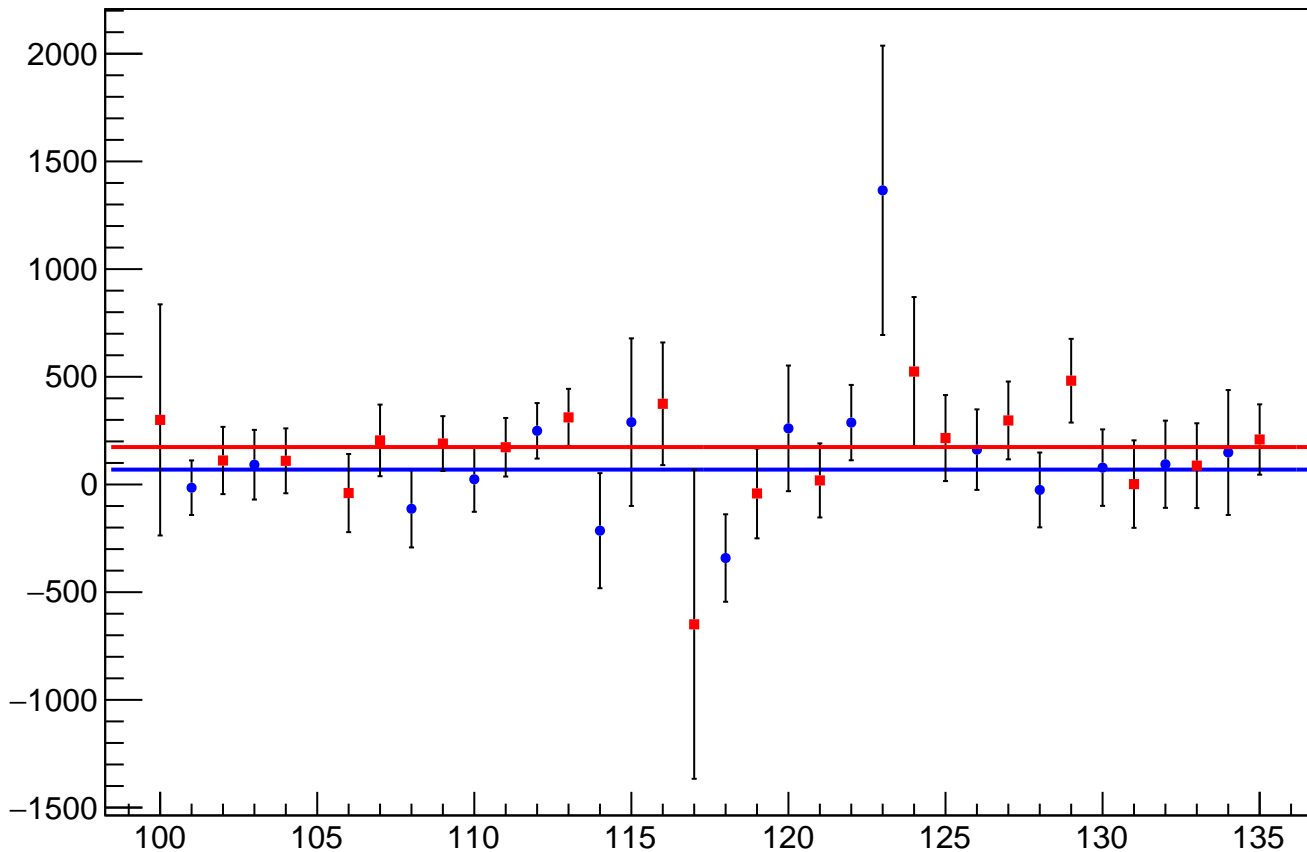
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

625.360 $\pm$ 0.187  $\chi^2$ /NDF: 226375.5/15

606.141 $\pm$ 0.123  $\chi^2$ /NDF: 700353.4/34

591.636 $\pm$ 0.162  $\chi^2$ /NDF: 455412.7/18

# reg\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 69.143+/-46.785  $\chi^2$ /NDF: 15.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 173.829+/-41.629  $\chi^2$ /NDF: 11.6/18

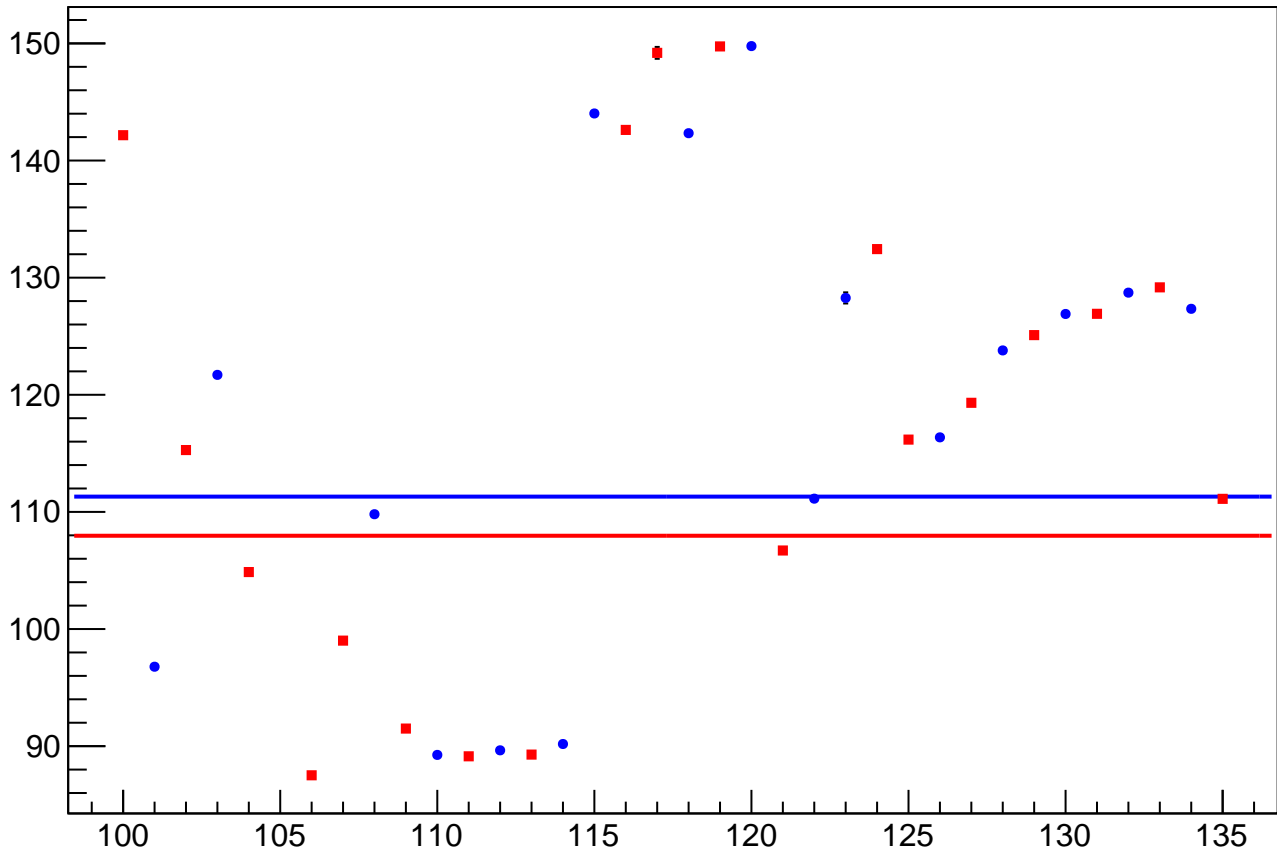
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

69.143+/-46.785  $\chi^2$ /NDF: 15.4/15

127.569+/-31.100  $\chi^2$ /NDF: 29.8/34

173.829+/-41.629  $\chi^2$ /NDF: 11.6/18

# reg\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 111.306+/-0.033  $\chi^2$ /NDF: 291306.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 107.965+/-0.029  $\chi^2$ /NDF: 350938.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

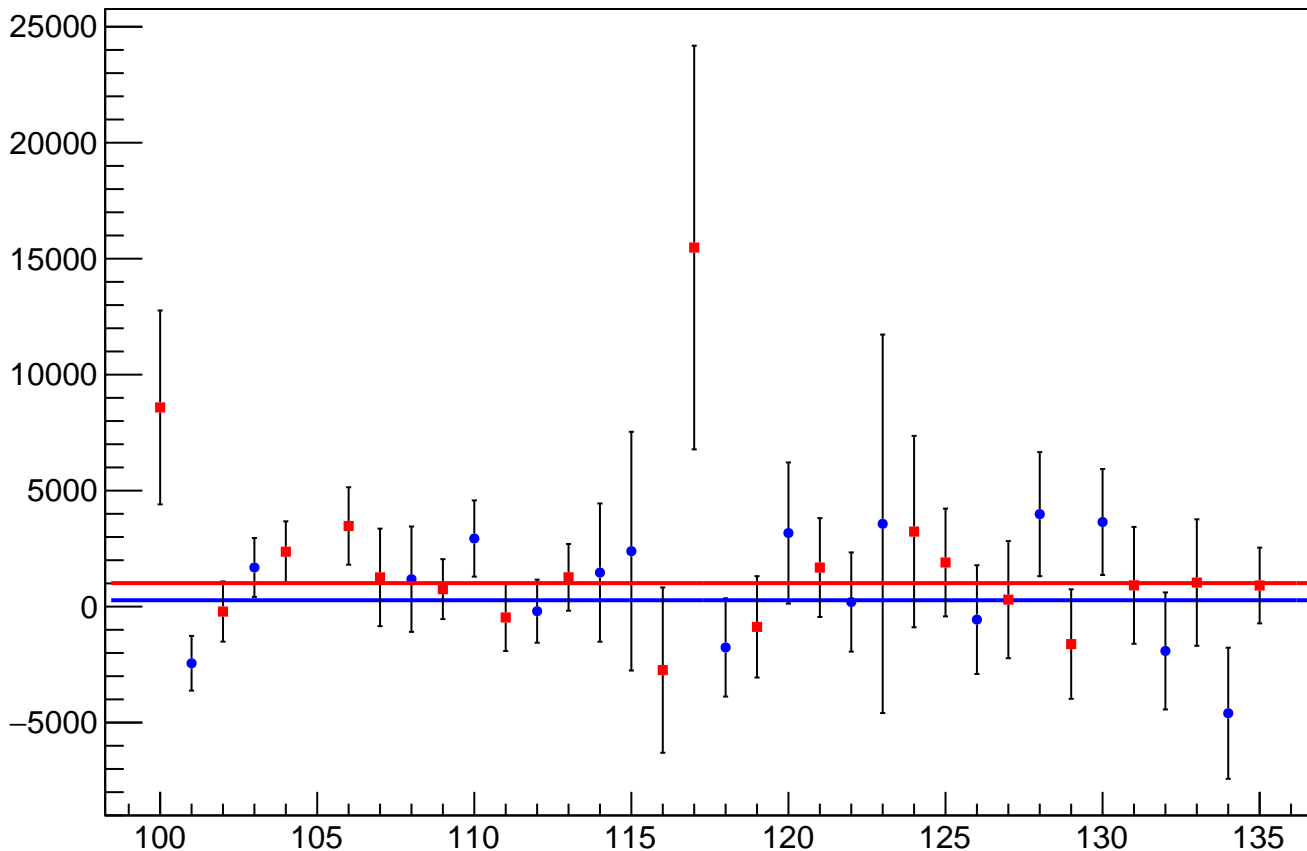
111.306+/-0.033  $\chi^2$ /NDF: 291306.7/15

109.441+/-0.022  $\chi^2$ /NDF: 647939.3/34

107.965+/-0.029  $\chi^2$ /NDF: 350938.6/18



# asym\_sam\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 273.601 $\pm$ 502.779  $\chi^2$ /NDF: 19.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1012.689 $\pm$ 440.672  $\chi^2$ /NDF: 15.0/18

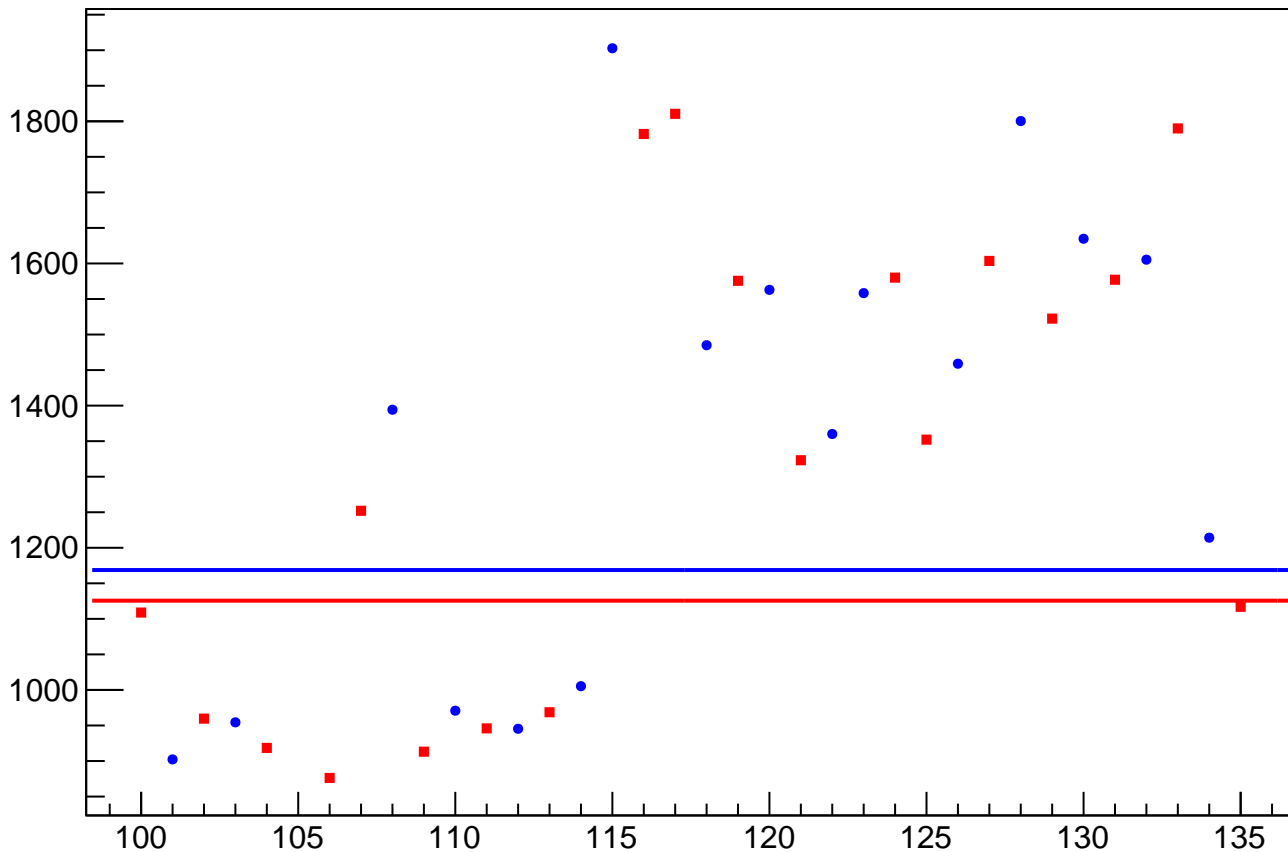
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

273.601 $\pm$ 502.779  $\chi^2$ /NDF: 19.7/15

691.588 $\pm$ 331.398  $\chi^2$ /NDF: 36.0/34

1012.689 $\pm$ 440.672  $\chi^2$ /NDF: 15.0/18

# asym\_sam\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1168.679+/-0.356  $\chi^2$ /NDF: 693128.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1125.588+/-0.312  $\chi^2$ /NDF: 780147.4/18

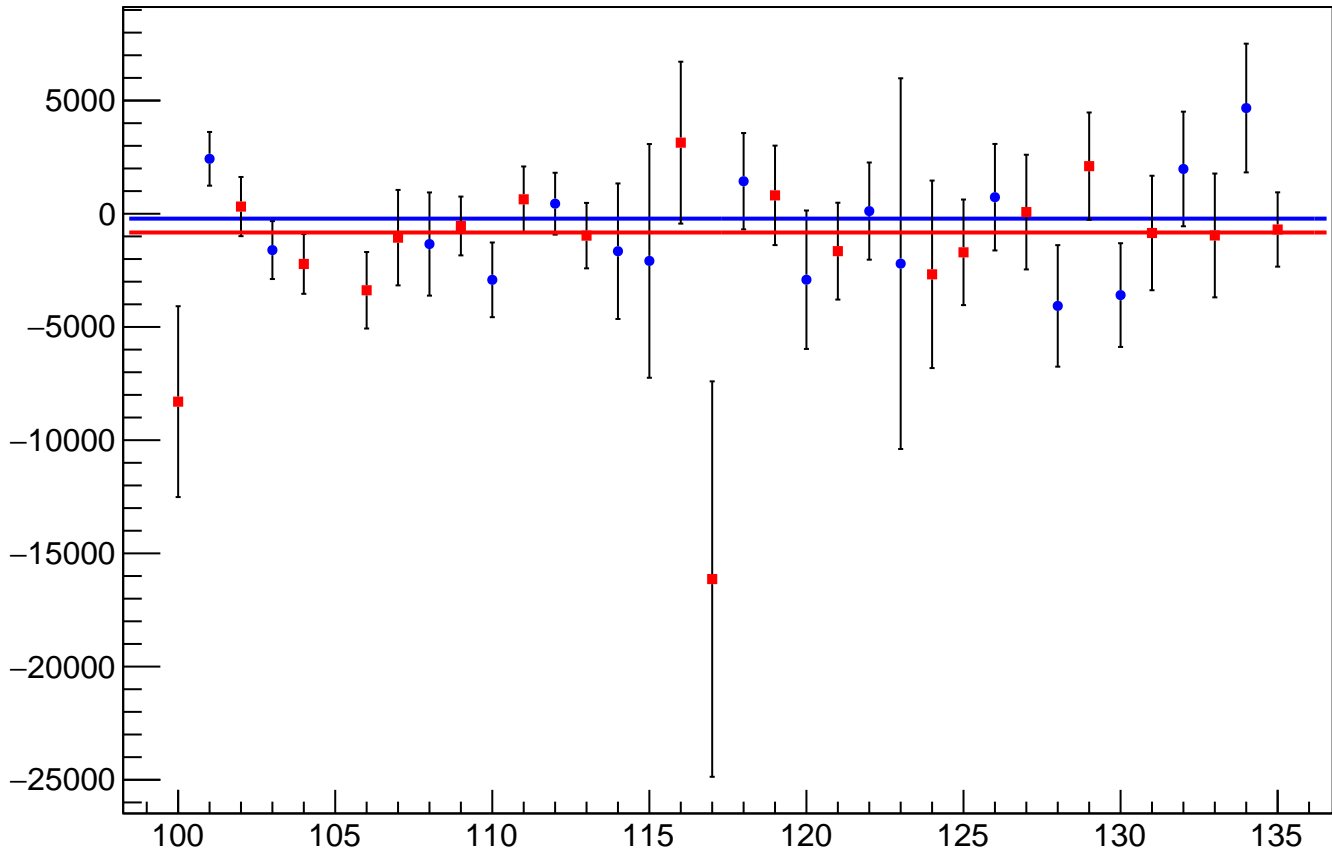
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1168.679+/-0.356  $\chi^2$ /NDF: 693128.8/15

1144.309+/-0.234  $\chi^2$ /NDF: 1481584.7/34

1125.588+/-0.312  $\chi^2$ /NDF: 780147.4/18

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In:  $-215.199 \pm 505.273$   $\chi^2/\text{NDF}: 19.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-827.871 \pm 443.090$   $\chi^2/\text{NDF}: 15.4/18$

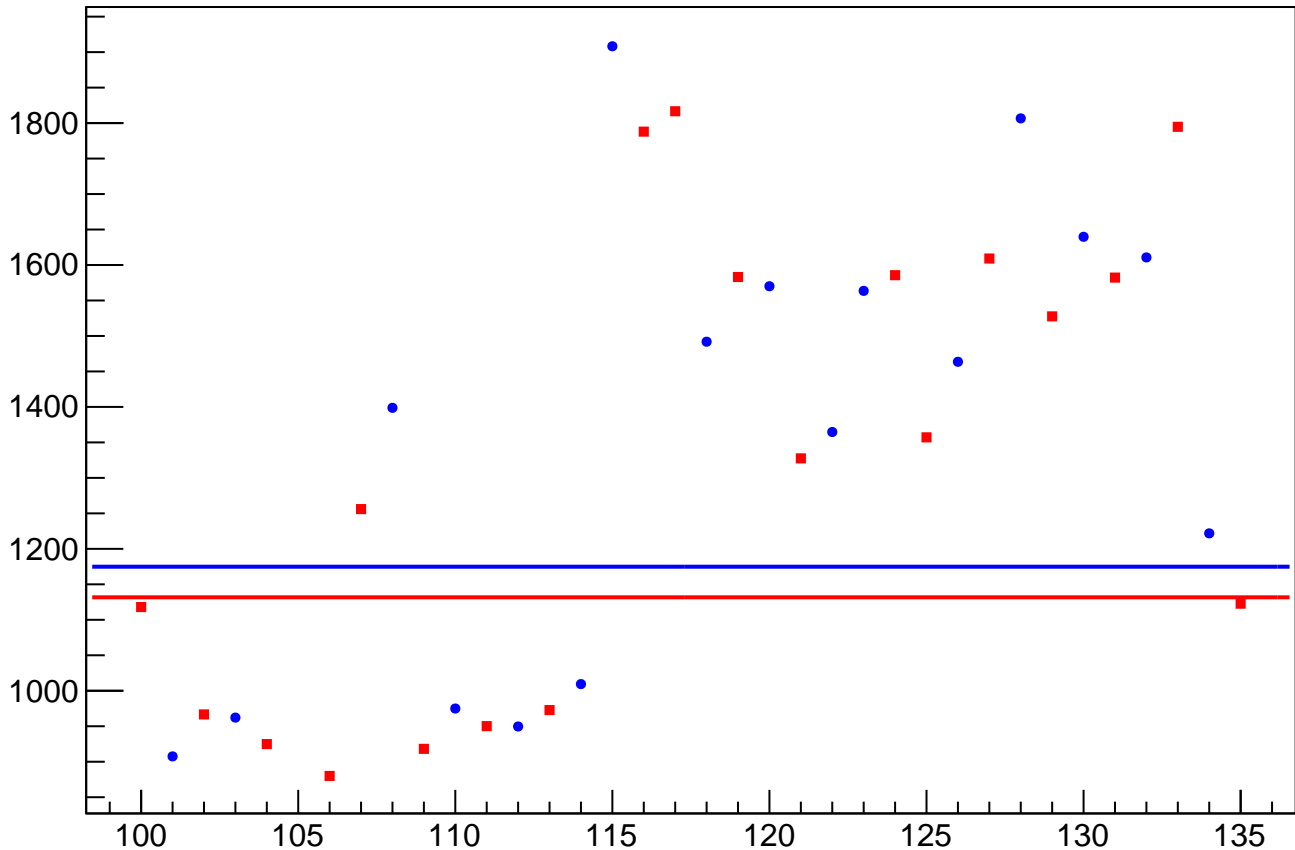
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-215.199 \pm 505.273$   $\chi^2/\text{NDF}: 19.2/15$

$-561.535 \pm 333.140$   $\chi^2/\text{NDF}: 35.5/34$

$-827.871 \pm 443.090$   $\chi^2/\text{NDF}: 15.4/18$

# asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 1174.837 $\pm$ 0.357  $\chi^2$ /NDF: 687619.7/15

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

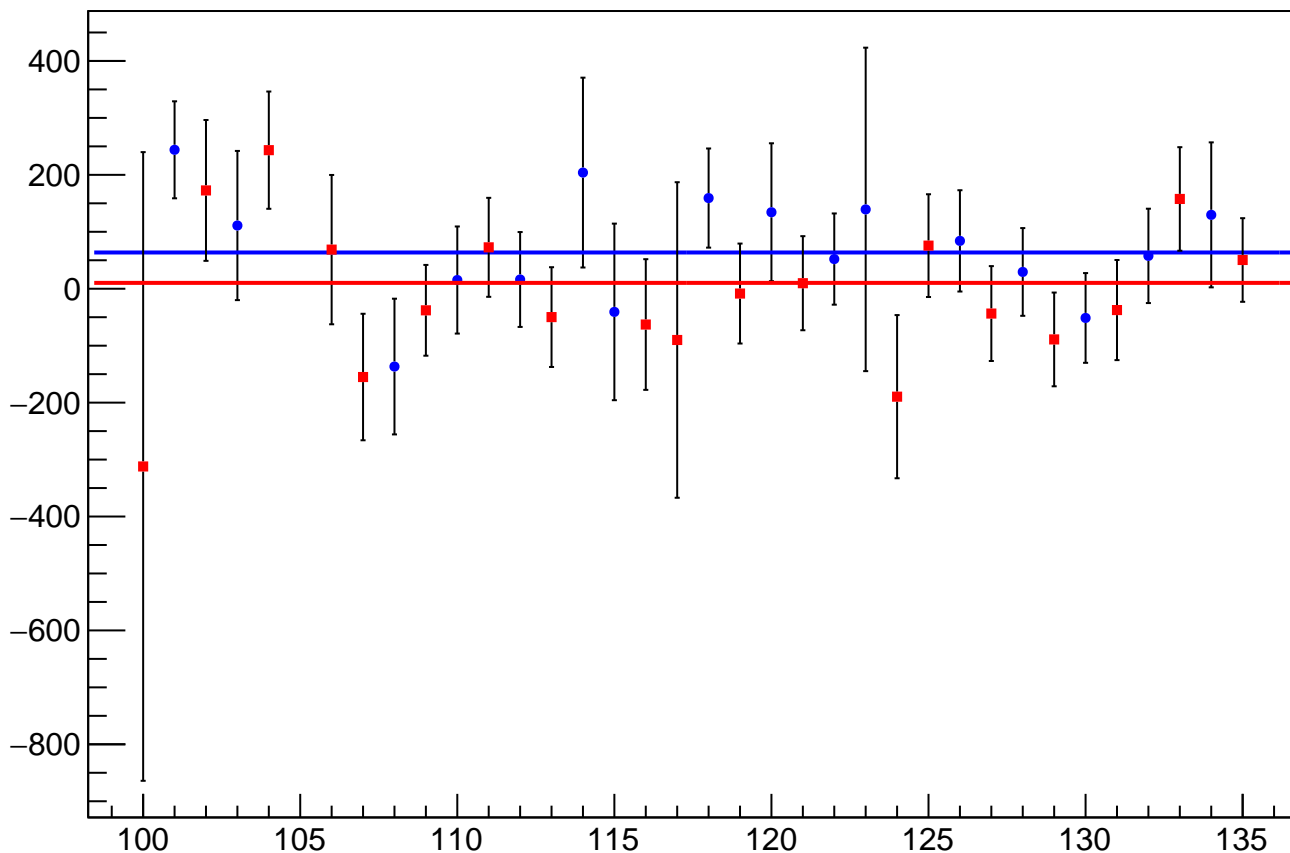
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1174.837 $\pm$ 0.357  $\chi^2$ /NDF: 687619.7/15

1150.448 $\pm$ 0.236  $\chi^2$ /NDF: 1469651.5/34

1131.693 $\pm$ 0.313  $\chi^2$ /NDF: 773788.5/18

# reg\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 63.665 $\pm$ 24.745  $\chi^2$ /NDF: 13.5/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 10.290 $\pm$ 22.434  $\chi^2$ /NDF: 19.1/18

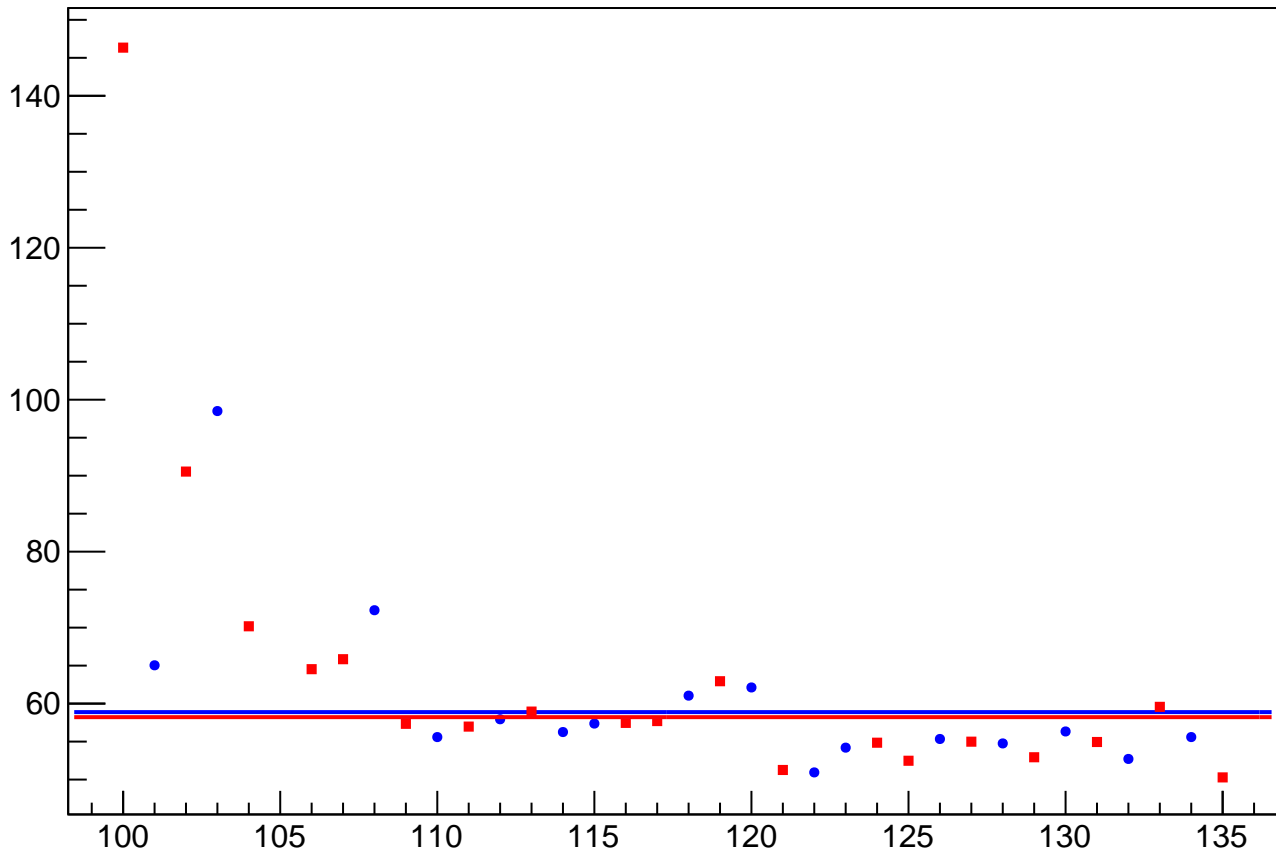
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

63.665 $\pm$ 24.745  $\chi^2$ /NDF: 13.5/15

34.369 $\pm$ 16.620  $\chi^2$ /NDF: 35.1/34

10.290 $\pm$ 22.434  $\chi^2$ /NDF: 19.1/18

# reg\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 58.879 $\pm$ 0.017  $\chi^2$ /NDF: 268423.6/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 58.215 $\pm$ 0.016  $\chi^2$ /NDF: 296491.1/18

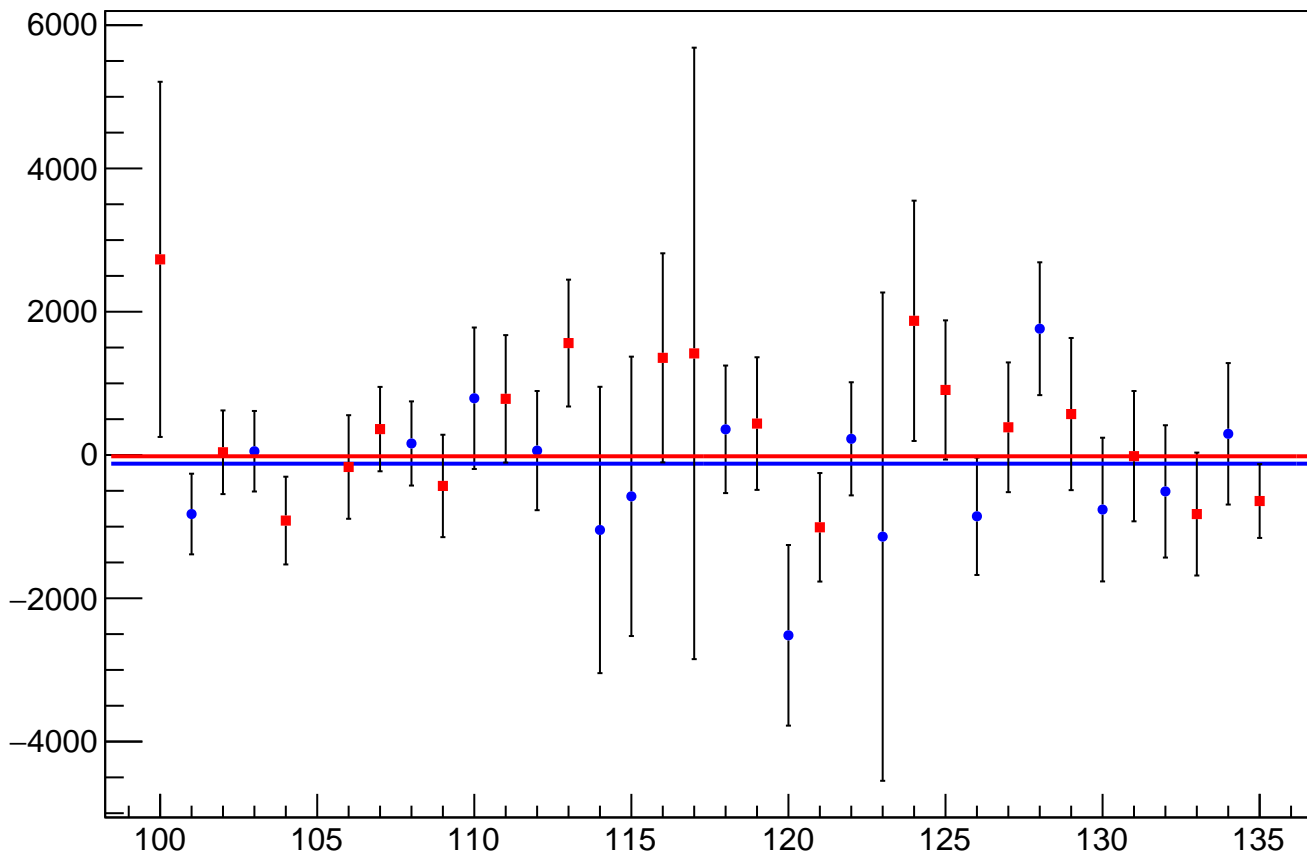
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

58.879 $\pm$ 0.017  $\chi^2$ /NDF: 268423.6/15

58.514 $\pm$ 0.012  $\chi^2$ /NDF: 565704.9/34

58.215 $\pm$ 0.016  $\chi^2$ /NDF: 296491.1/18

asym\_sam\_13\_57\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-121.056 \pm 215.021$   $\chi^2/\text{NDF}$ : 12.9/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-17.827 \pm 187.834$   $\chi^2/\text{NDF}$ : 16.2/18

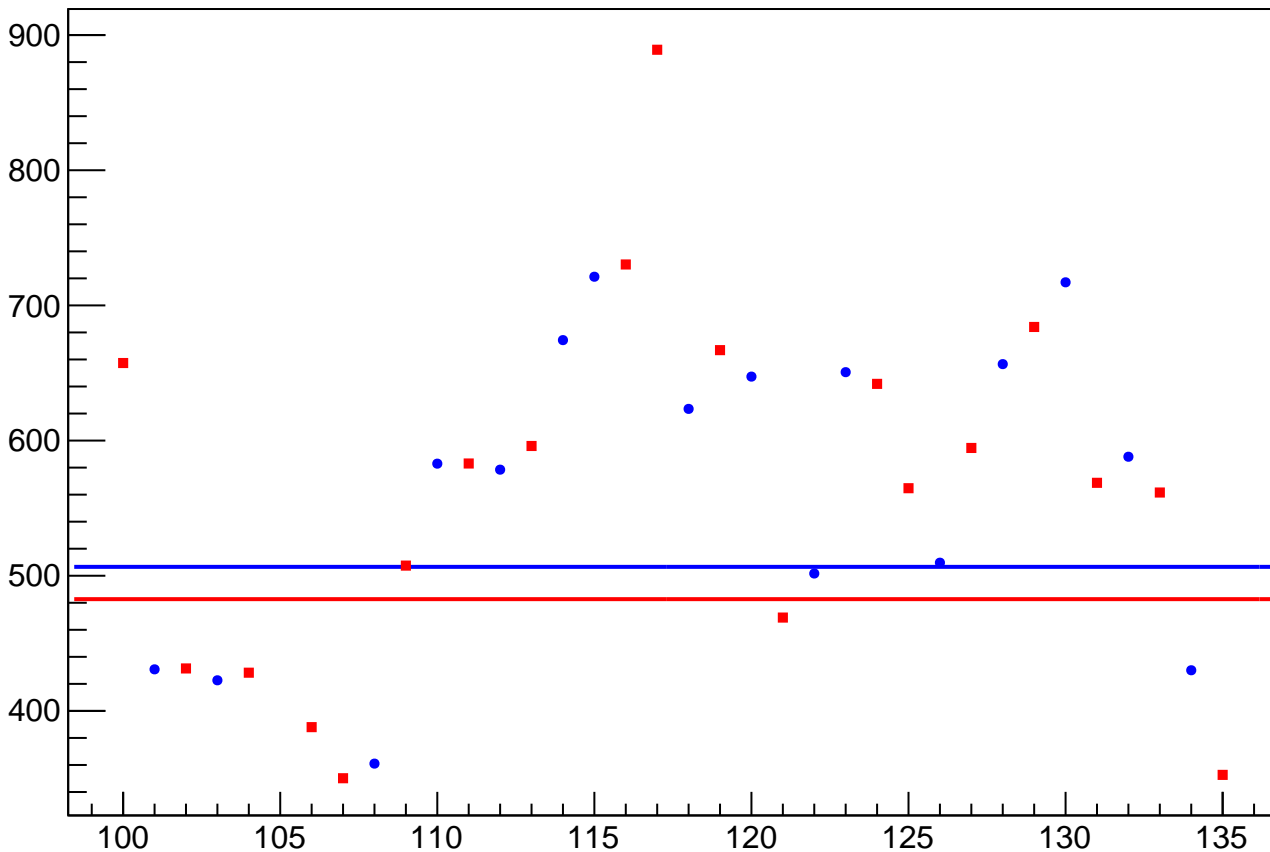
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-121.056 \pm 215.021$   $\chi^2/\text{NDF}$ : 12.9/15

$-62.506 \pm 141.460$   $\chi^2/\text{NDF}$ : 29.2/34

$-17.827 \pm 187.834$   $\chi^2/\text{NDF}$ : 16.2/18

asym\_sam\_13\_57\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 506.575+/-0.152  $\chi^2$ /NDF: 500000.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 482.682+/-0.133  $\chi^2$ /NDF: 689691.6/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

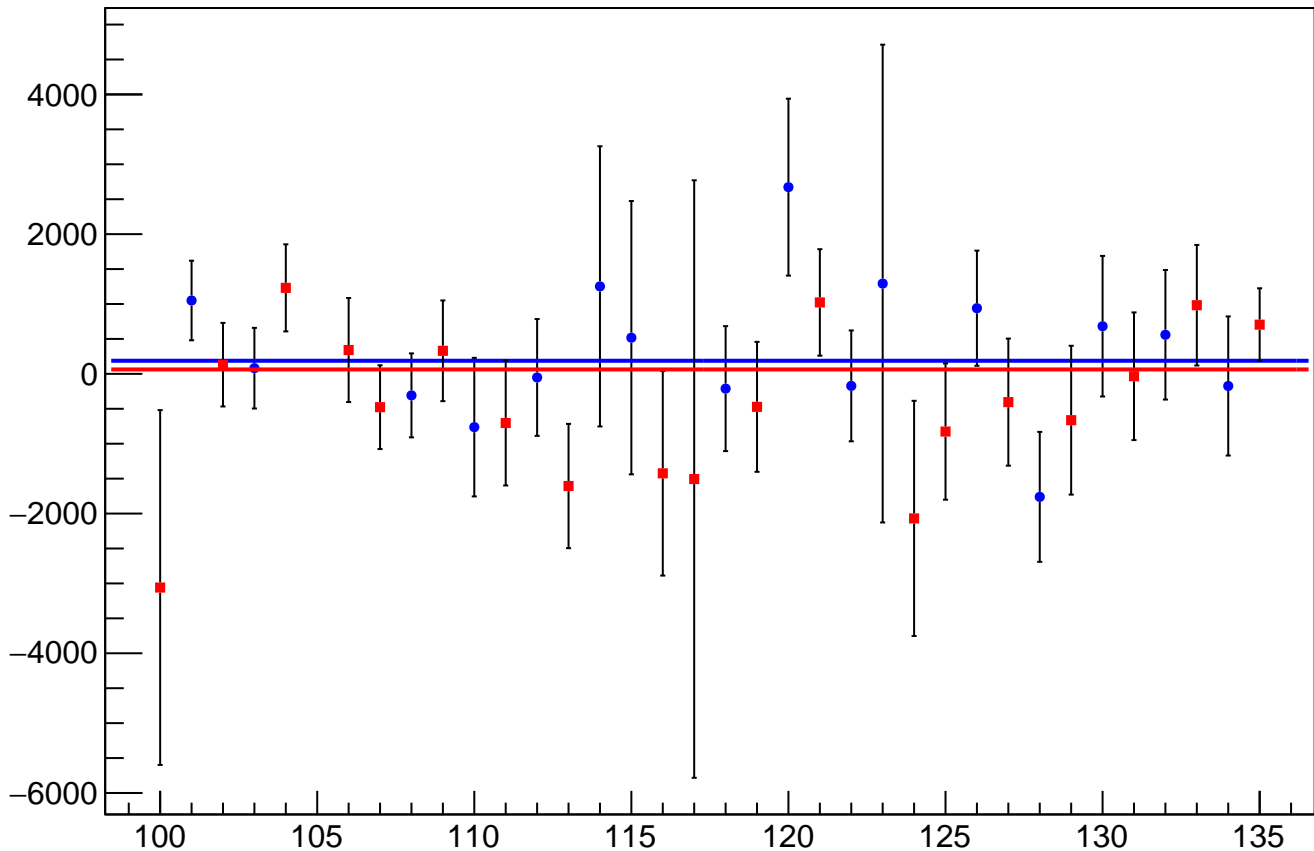
506.575+/-0.152  $\chi^2$ /NDF: 500000.8/15

493.023+/-0.100  $\chi^2$ /NDF: 1203698.5/34

482.682+/-0.133  $\chi^2$ /NDF: 689691.6/18



# asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 187.506 $\pm$ 217.487  $\chi^2$ /NDF: 14.4/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 63.244 $\pm$ 190.118  $\chi^2$ /NDF: 19.3/18

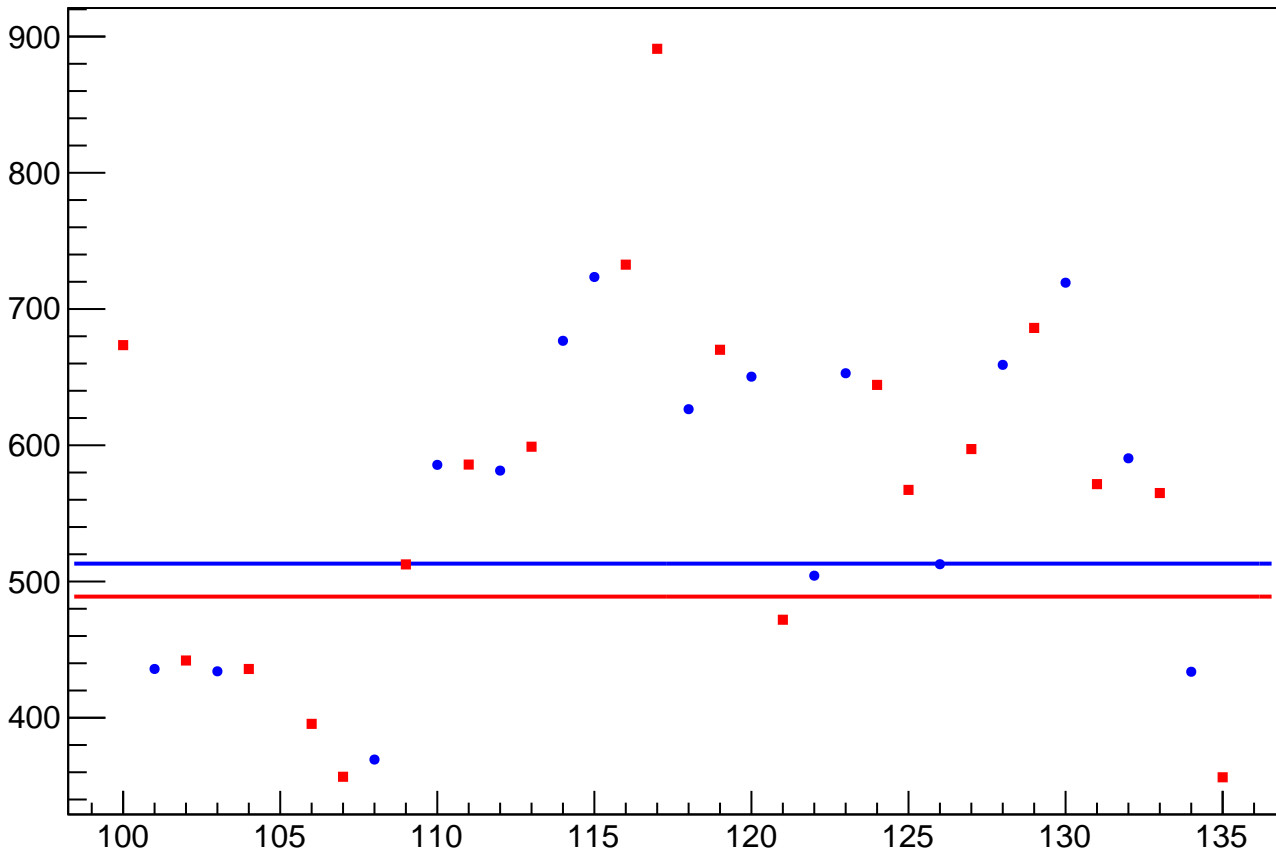
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

187.506 $\pm$ 217.487  $\chi^2$ /NDF: 14.4/15

117.069 $\pm$ 143.138  $\chi^2$ /NDF: 33.9/34

63.244 $\pm$ 190.118  $\chi^2$ /NDF: 19.3/18

# asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 513.129+/-0.154  $\chi^2$ /NDF: 468291.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 488.925+/-0.134  $\chi^2$ /NDF: 660678.9/18

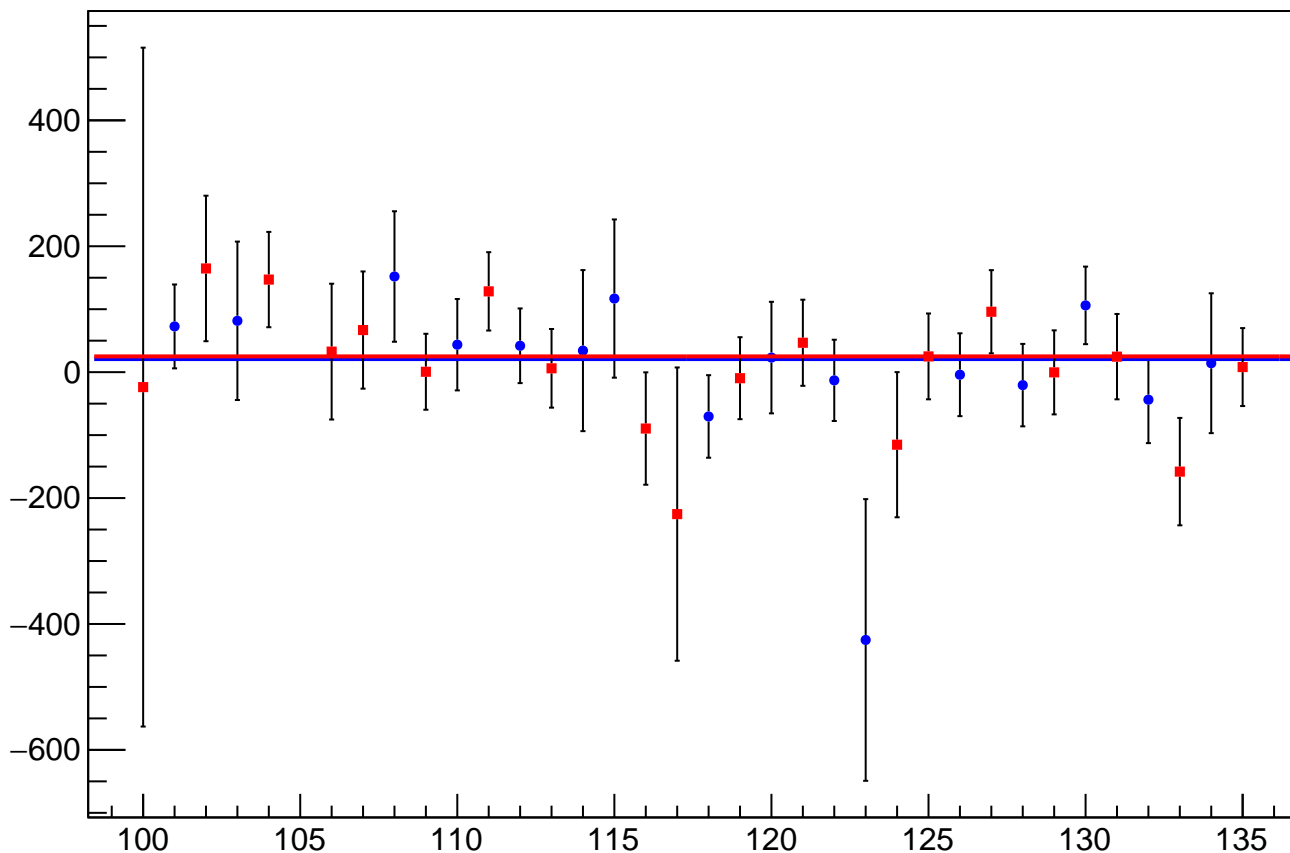
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

513.129+/-0.154  $\chi^2$ /NDF: 468291.2/15

499.409+/-0.101  $\chi^2$ /NDF: 1143010.7/34

488.925+/-0.134  $\chi^2$ /NDF: 660678.9/18

# reg\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 20.793+/-19.541  $\chi^2$ /NDF: 12.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 25.029+/-17.687  $\chi^2$ /NDF: 17.9/18

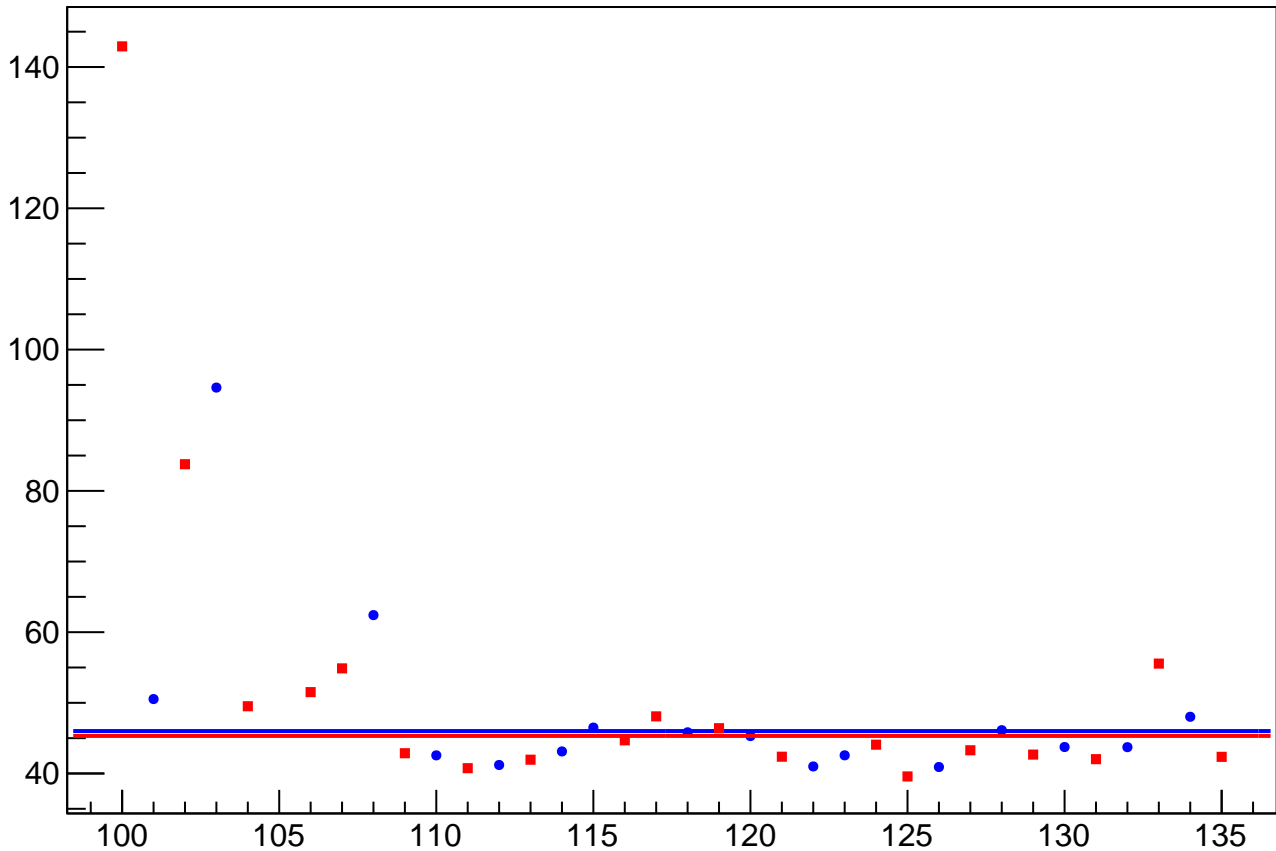
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

20.793+/-19.541  $\chi^2$ /NDF: 12.8/15

23.121+/-13.113  $\chi^2$ /NDF: 30.7/34

25.029+/-17.687  $\chi^2$ /NDF: 17.9/18

# reg\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 46.003+/-0.014  $\chi^2$ /NDF: 406812.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 45.316+/-0.013  $\chi^2$ /NDF: 402885.0/18

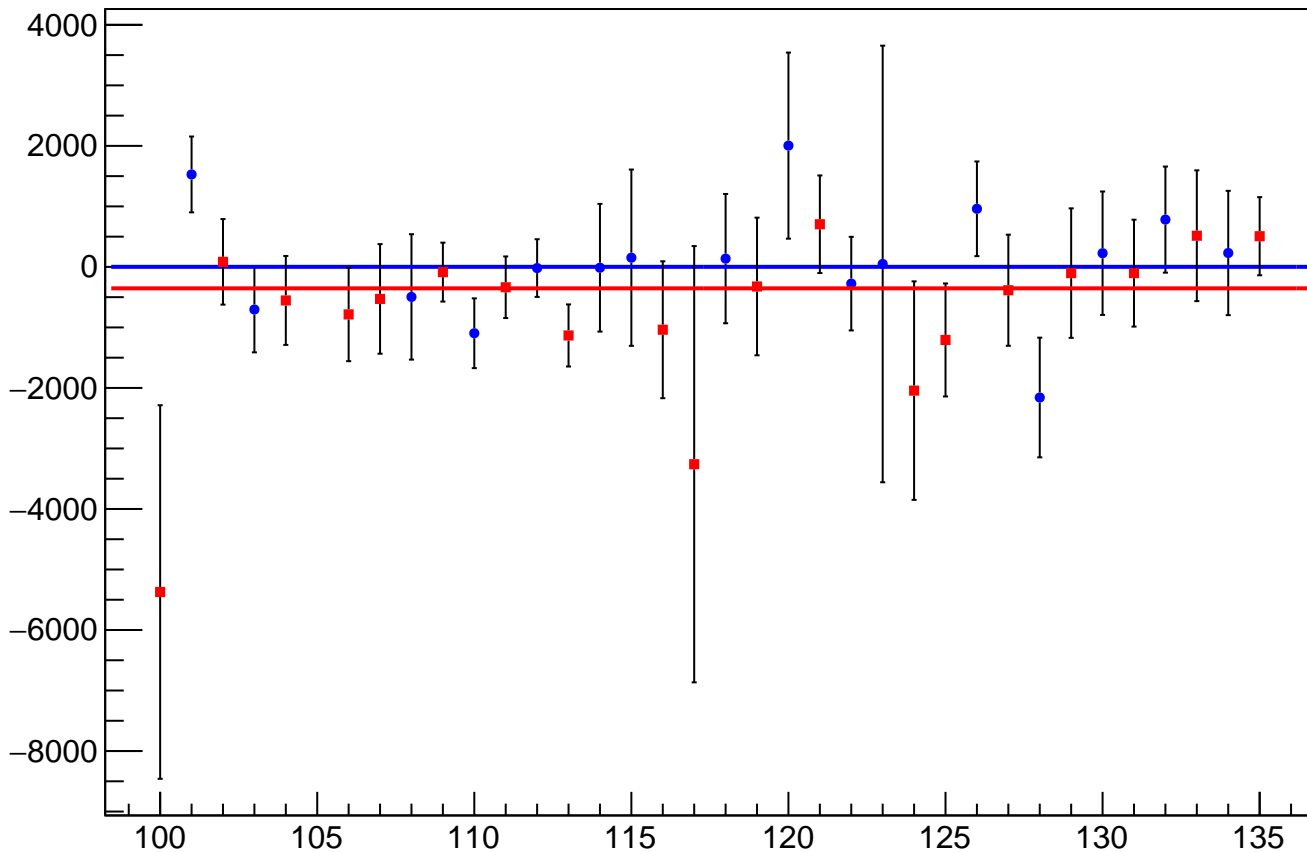
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

46.003+/-0.014  $\chi^2$ /NDF: 406812.3/15

45.625+/-0.009  $\chi^2$ /NDF: 811056.1/34

45.316+/-0.013  $\chi^2$ /NDF: 402885.0/18

# asym\_sam\_15\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $1.232 \pm 207.746$   $\chi^2/\text{NDF}: 19.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-354.136 \pm 182.709$   $\chi^2/\text{NDF}: 13.1/18$

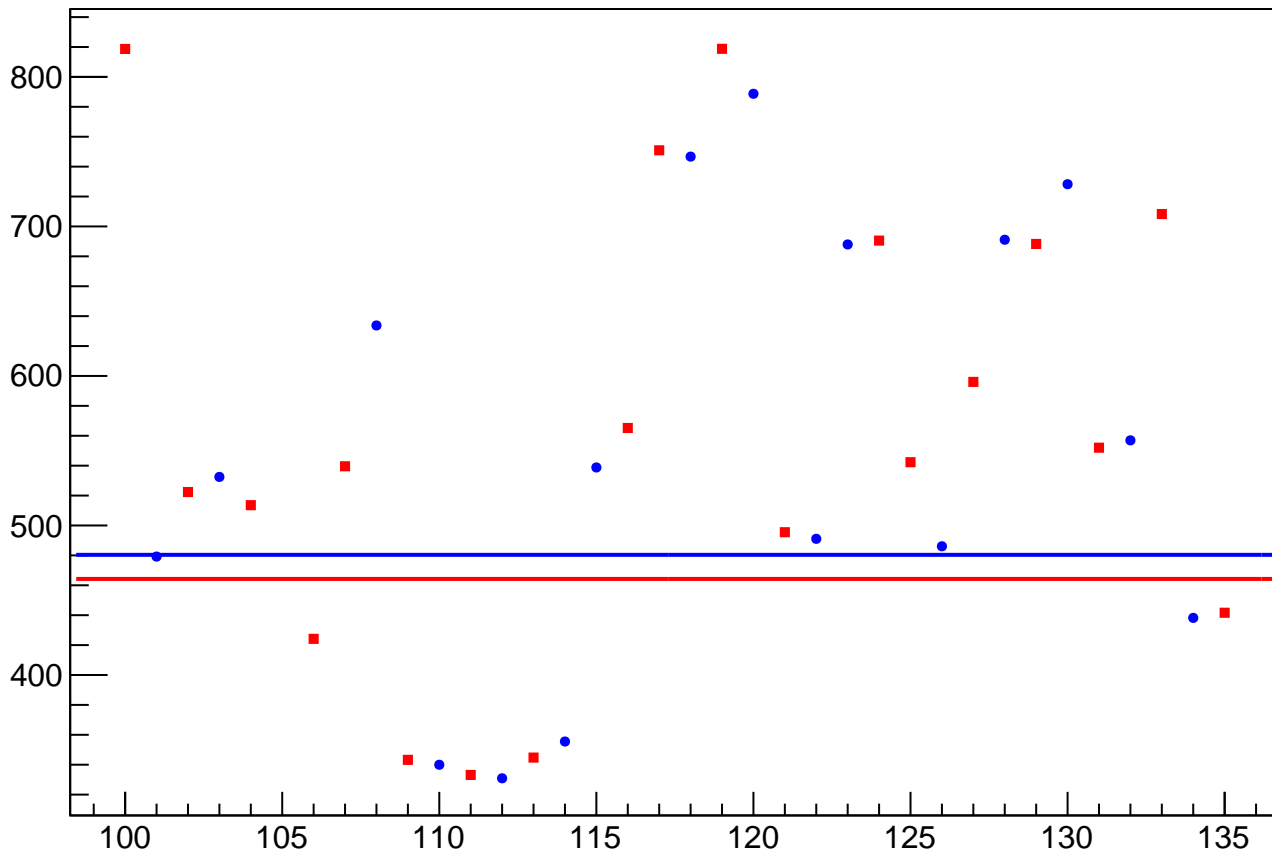
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$1.232 \pm 207.746$   $\chi^2/\text{NDF}: 19.8/15$

$-199.146 \pm 137.197$   $\chi^2/\text{NDF}: 34.5/34$

$-354.136 \pm 182.709$   $\chi^2/\text{NDF}: 13.1/18$

# asym\_sam\_15\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 480.367+/-0.147  $\chi^2$ /NDF: 840559.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 464.256+/-0.129  $\chi^2$ /NDF: 957413.2/18

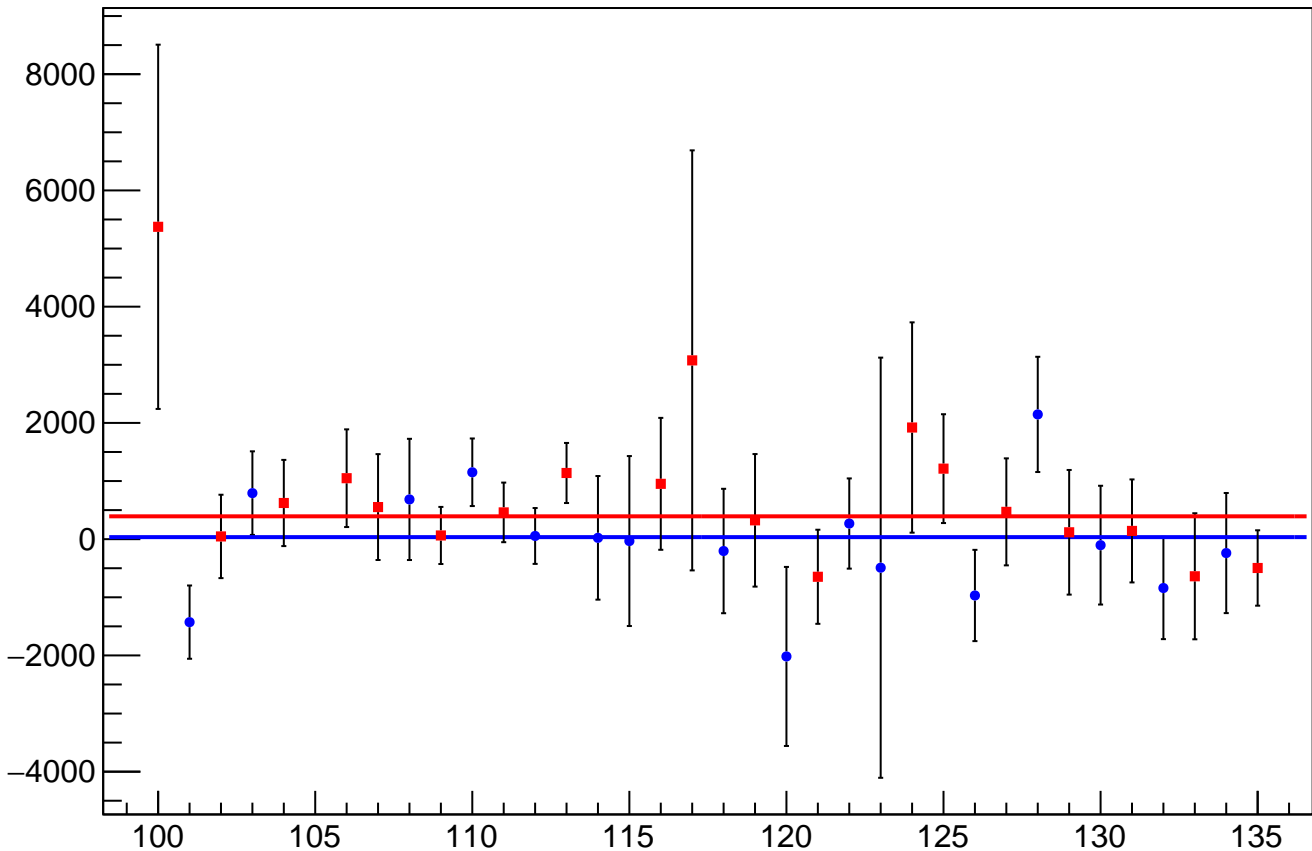
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

480.367+/-0.147  $\chi^2$ /NDF: 840559.4/15

471.282+/-0.097  $\chi^2$ /NDF: 1804755.2/34

464.256+/-0.129  $\chi^2$ /NDF: 957413.2/18

# asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 35.137+/-209.090  $\chi^2$ /NDF: 19.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 393.005+/-184.659  $\chi^2$ /NDF: 12.9/18

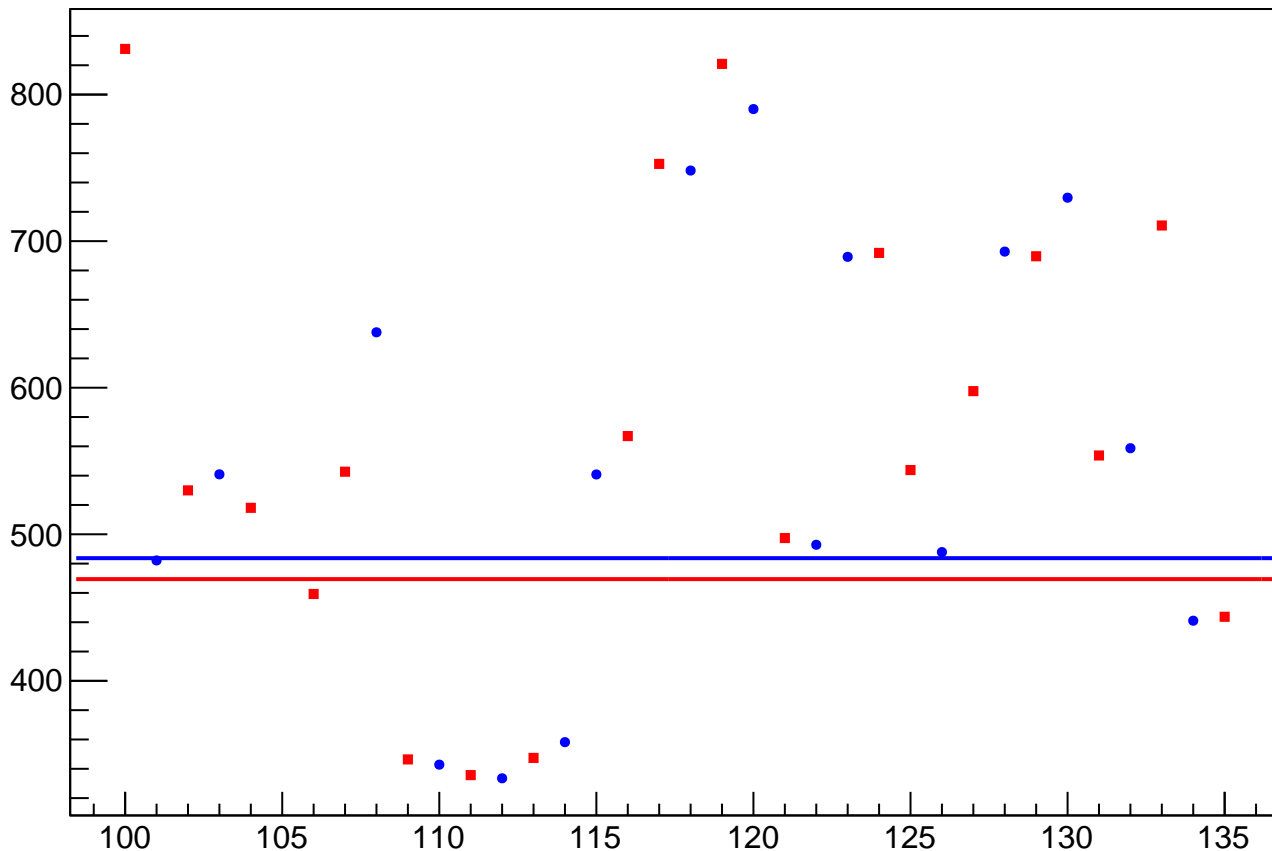
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

35.137+/-209.090  $\chi^2$ /NDF: 19.8/15

236.191+/-138.409  $\chi^2$ /NDF: 34.3/34

393.005+/-184.659  $\chi^2$ /NDF: 12.9/18

# asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 483.704+/-0.148  $\chi^2$ /NDF: 831049.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 469.414+/-0.131  $\chi^2$ /NDF: 941618.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

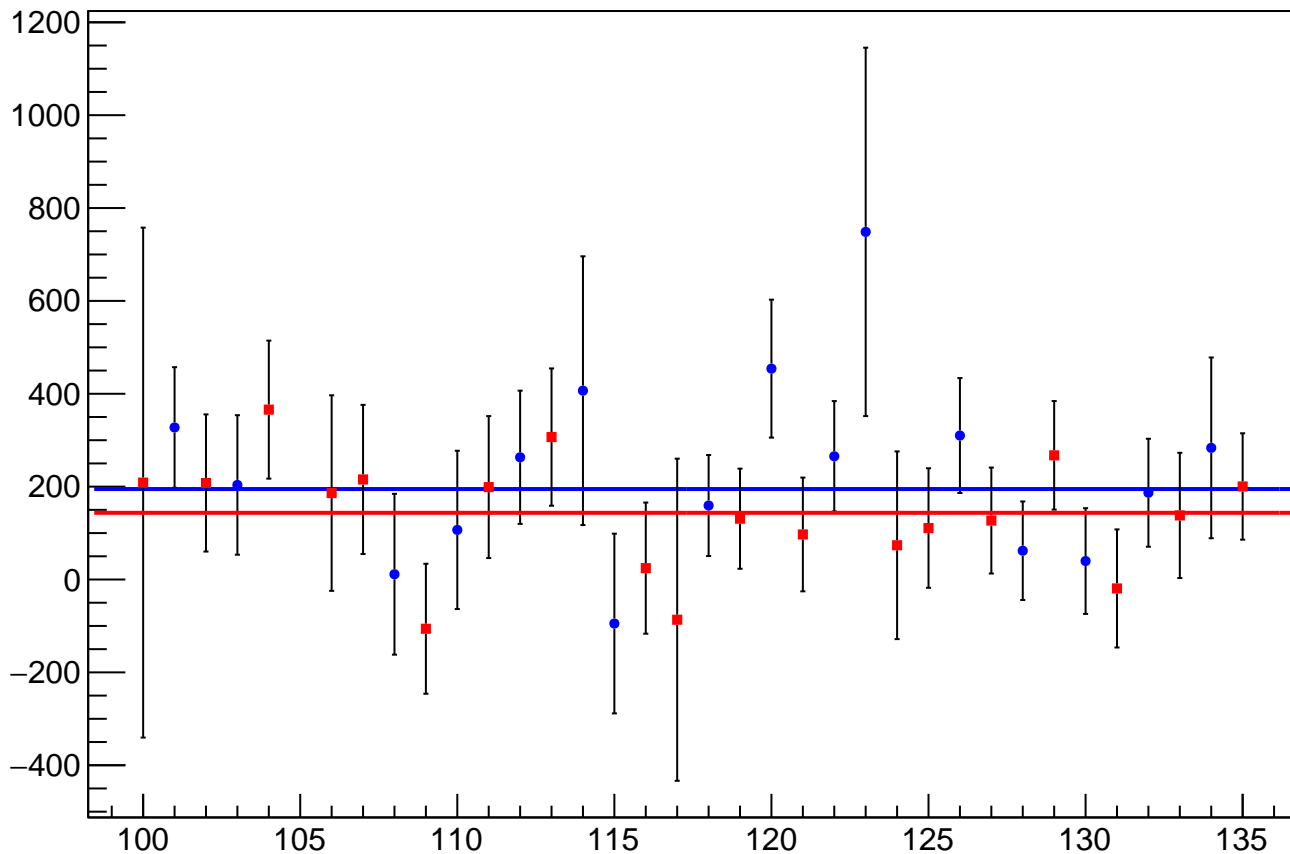
483.704+/-0.148  $\chi^2$ /NDF: 831049.8/15

475.676+/-0.098  $\chi^2$ /NDF: 1777916.6/34

469.414+/-0.131  $\chi^2$ /NDF: 941618.2/18



# reg\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 194.831+/-35.416  $\chi^2$ /NDF: 15.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 143.653+/-32.716  $\chi^2$ /NDF: 11.7/18

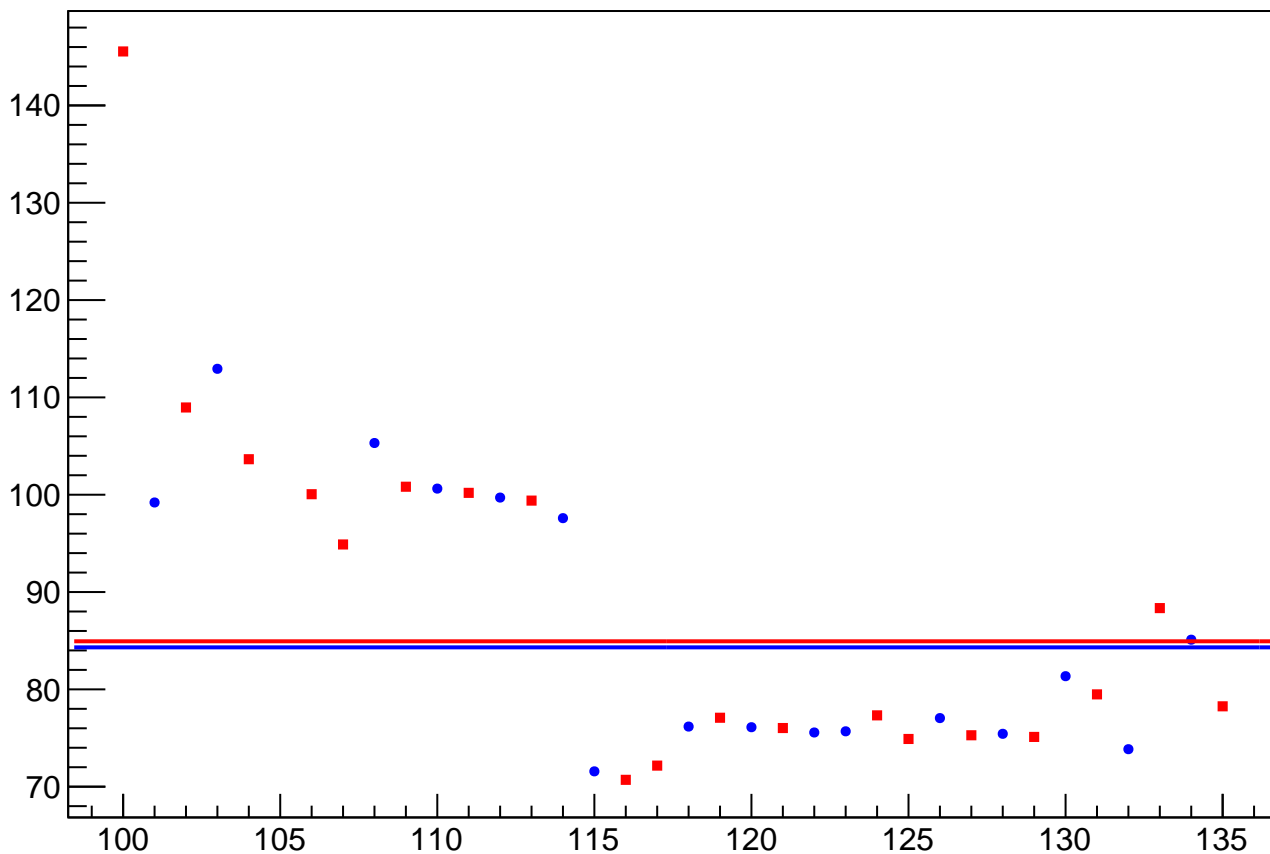
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

194.831+/-35.416  $\chi^2$ /NDF: 15.4/15

167.217+/-24.032  $\chi^2$ /NDF: 28.3/34

143.653+/-32.716  $\chi^2$ /NDF: 11.7/18

# reg\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 84.316+/-0.025  $\chi^2$ /NDF: 250092.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 84.938+/-0.023  $\chi^2$ /NDF: 291190.0/18

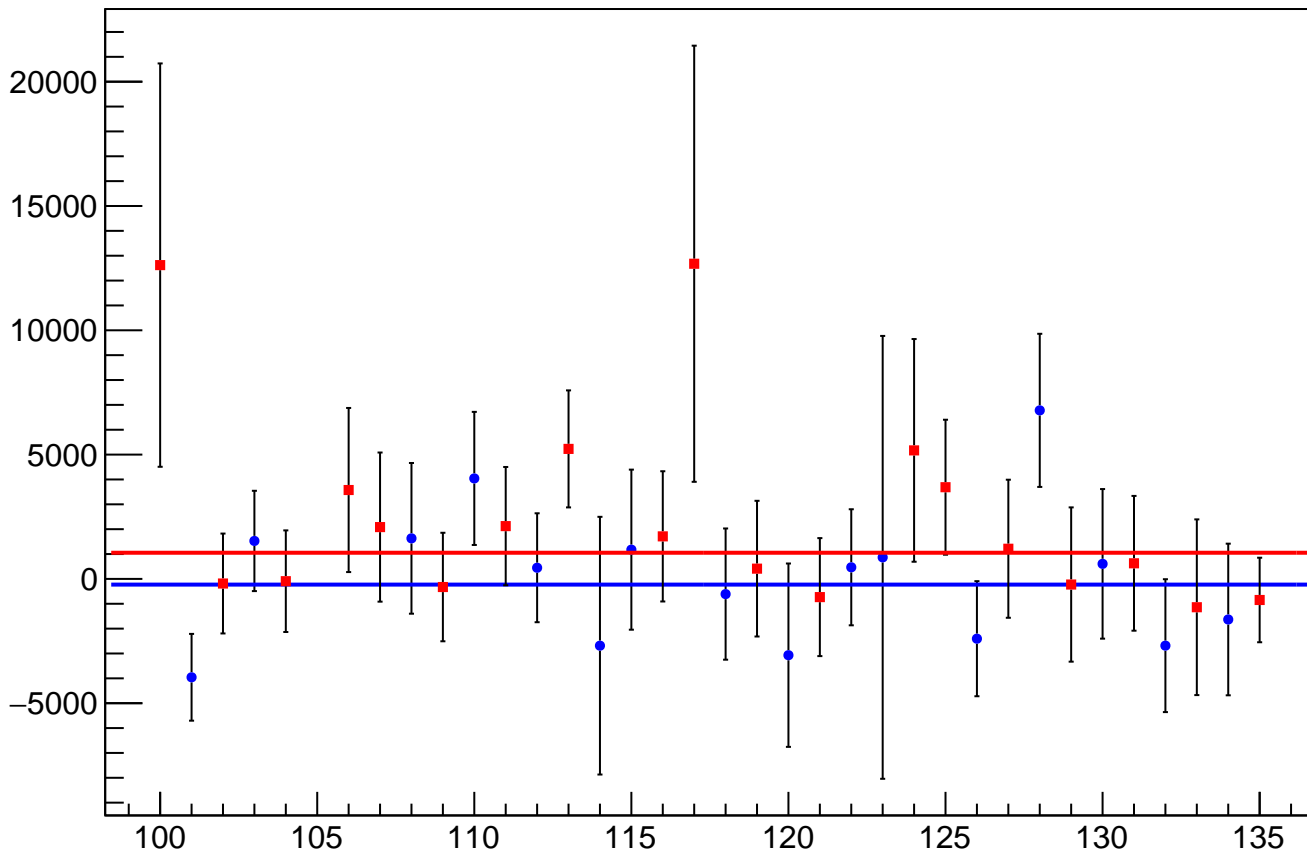
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

84.316+/-0.025  $\chi^2$ /NDF: 250092.4/15

84.652+/-0.017  $\chi^2$ /NDF: 541615.5/34

84.938+/-0.023  $\chi^2$ /NDF: 291190.0/18

# asym\_sam\_24\_68\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-229.123 \pm 669.989$   $\chi^2/\text{NDF}: 16.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1052.298 \pm 605.845$   $\chi^2/\text{NDF}: 13.2/18$

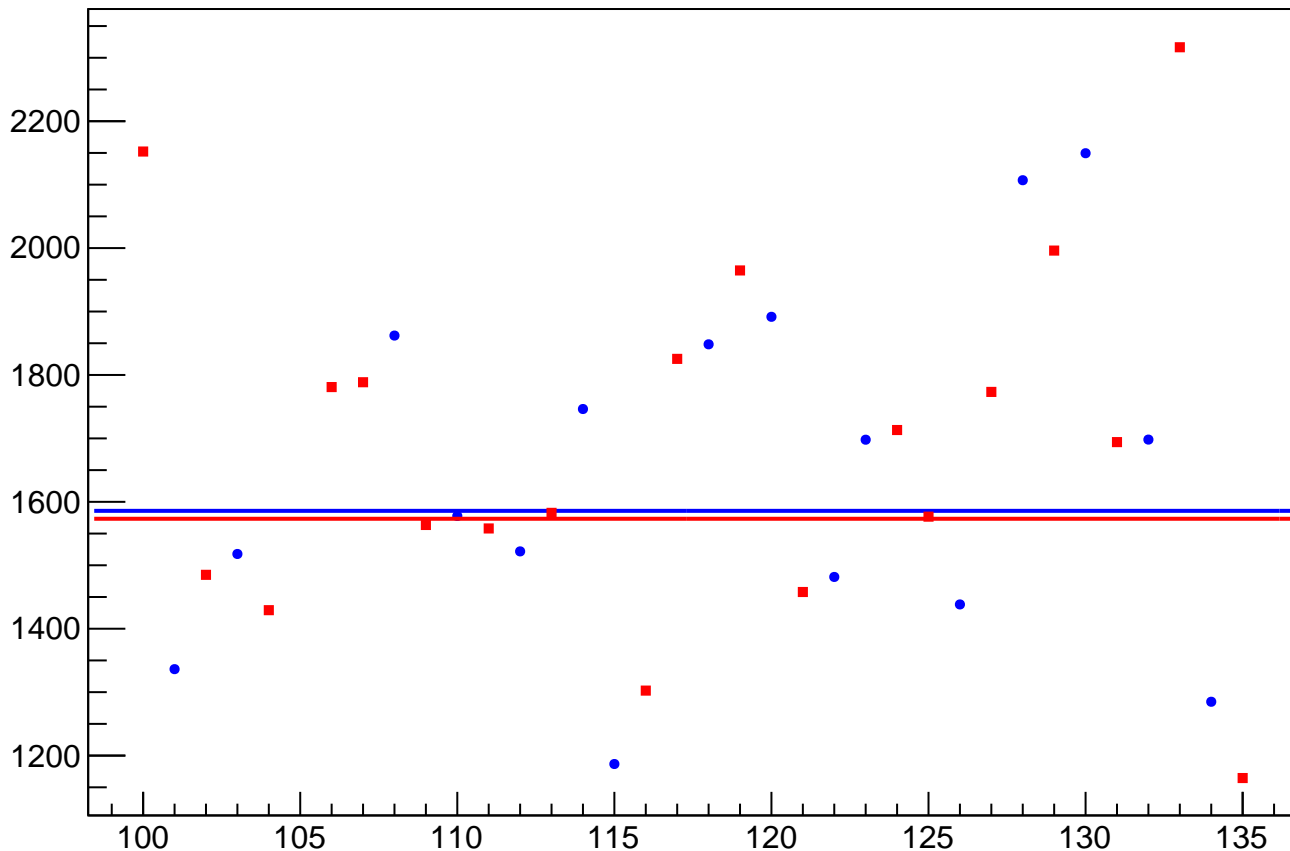
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-229.123 \pm 669.989$   $\chi^2/\text{NDF}: 16.7/15$

$475.850 \pm 449.367$   $\chi^2/\text{NDF}: 31.9/34$

$1052.298 \pm 605.845$   $\chi^2/\text{NDF}: 13.2/18$

# asym\_sam\_24\_68\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1585.808 $\pm$ 0.474  $\chi^2$ /NDF: 290604.6/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1573.325 $\pm$ 0.428  $\chi^2$ /NDF: 368749.3/18

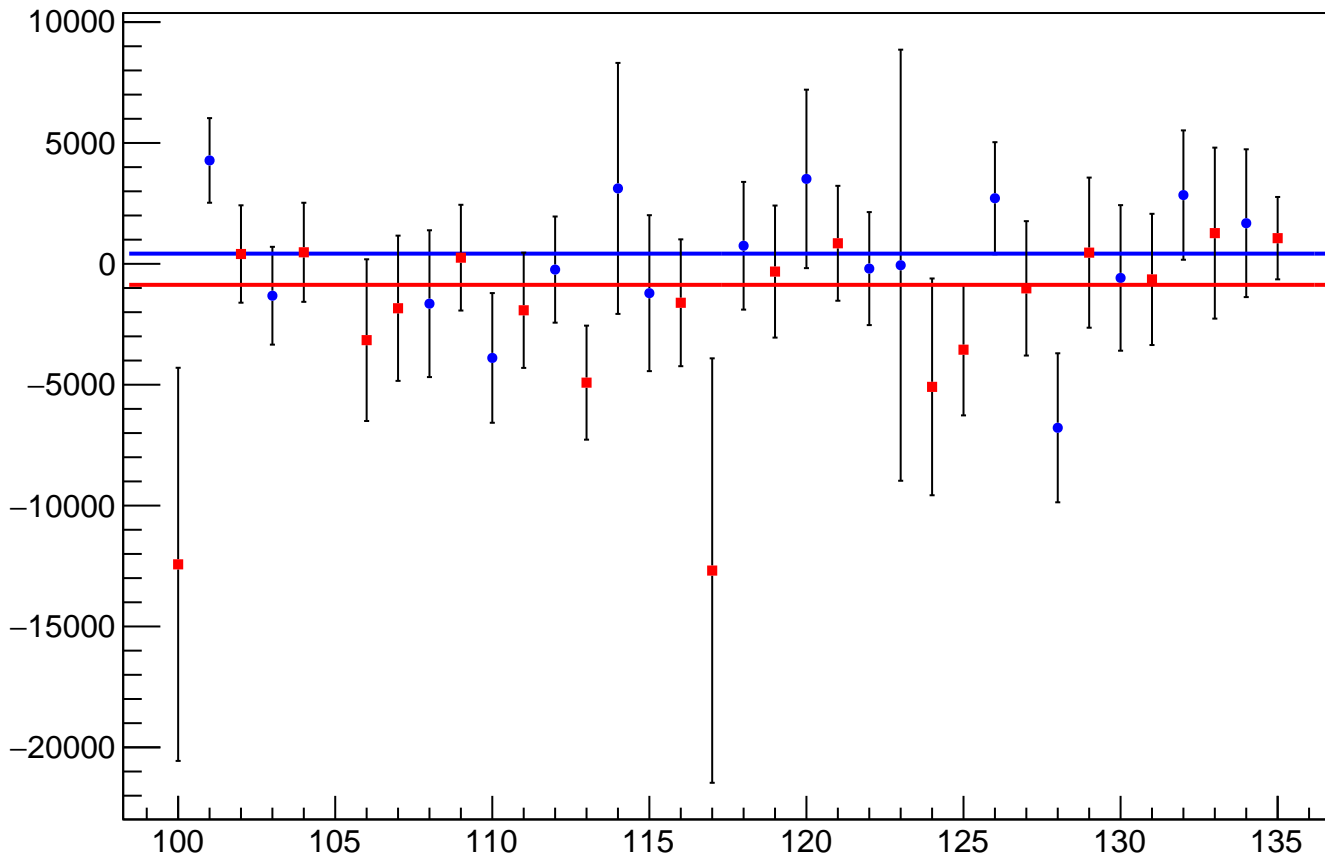
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1585.808 $\pm$ 0.474  $\chi^2$ /NDF: 290604.6/15

1578.941 $\pm$ 0.318  $\chi^2$ /NDF: 659735.9/34

1573.325 $\pm$ 0.428  $\chi^2$ /NDF: 368749.3/18

# asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 422.226+/-671.210  $\chi^2$ /NDF: 17.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -868.744+/-607.172  $\chi^2$ /NDF: 13.0/18

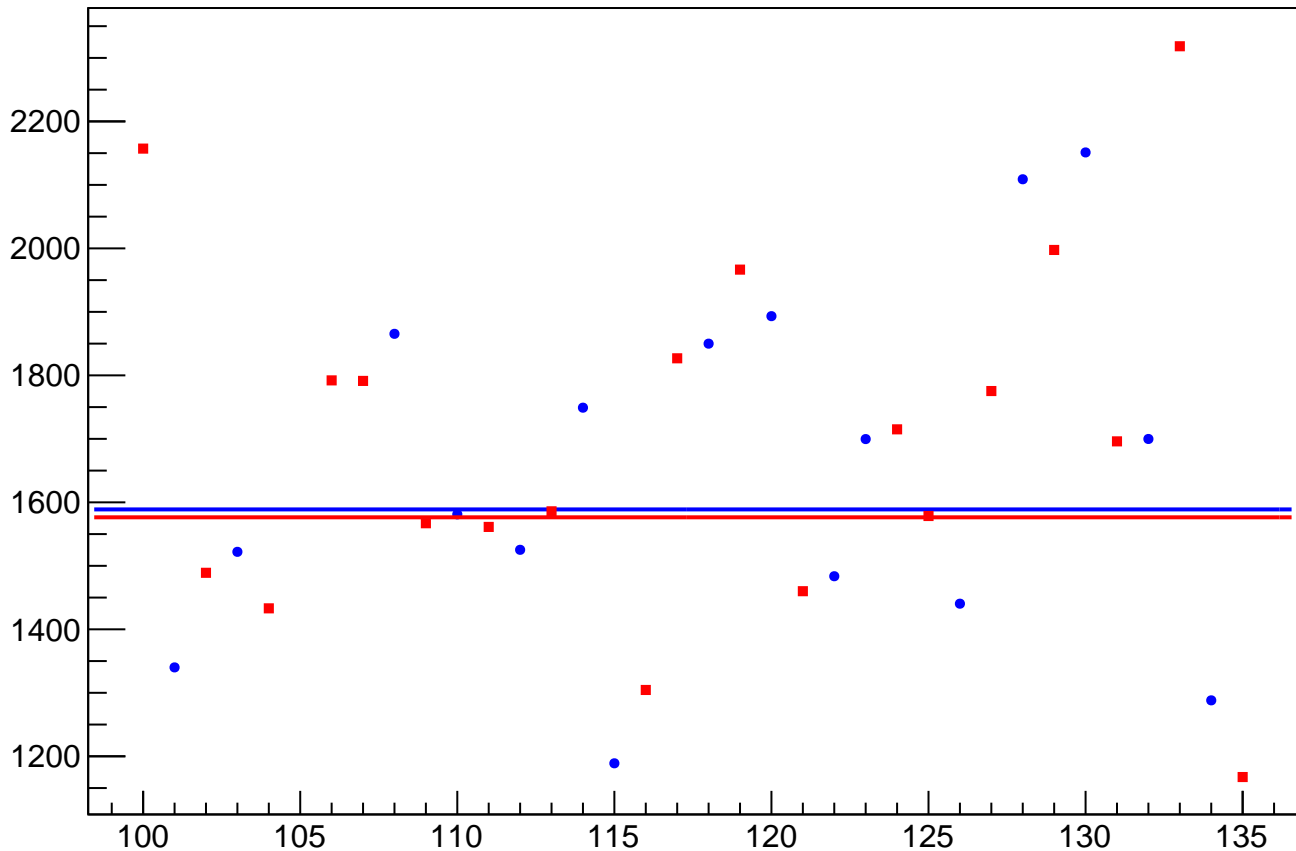
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

422.226+/-671.210  $\chi^2$ /NDF: 17.6/15

-287.765+/-450.278  $\chi^2$ /NDF: 32.6/34

-868.744+/-607.172  $\chi^2$ /NDF: 13.0/18

# asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 1588.862 $\pm$ 0.475  $\chi^2$ /NDF: 288719.9/15

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

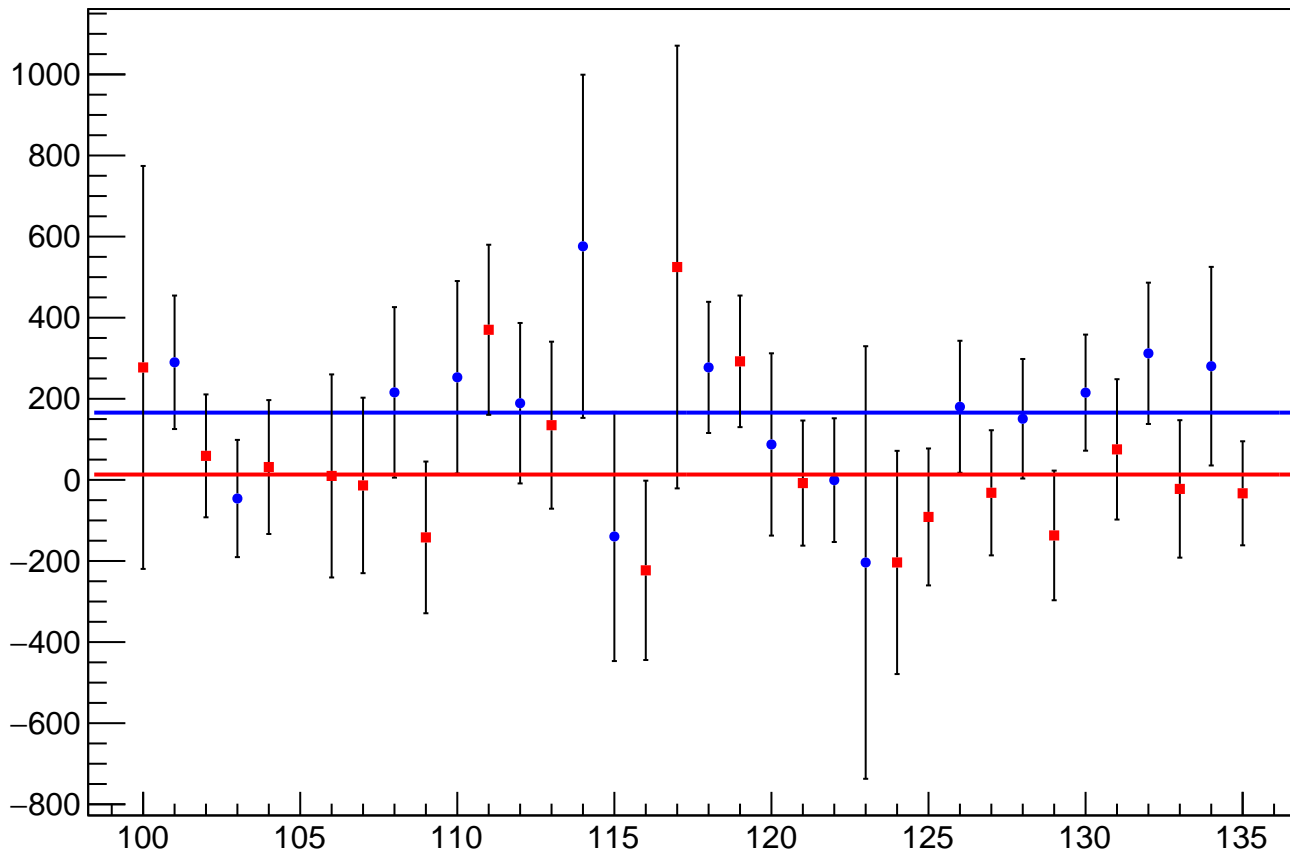
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1588.862 $\pm$ 0.475  $\chi^2$ /NDF: 288719.9/15

1582.017 $\pm$ 0.318  $\chi^2$ /NDF: 656362.2/34

1576.417 $\pm$ 0.429  $\chi^2$ /NDF: 367264.1/18

# reg\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 165.899+/-46.956  $\chi^2$ /NDF: 8.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 13.214+/-42.311  $\chi^2$ /NDF: 11.6/18

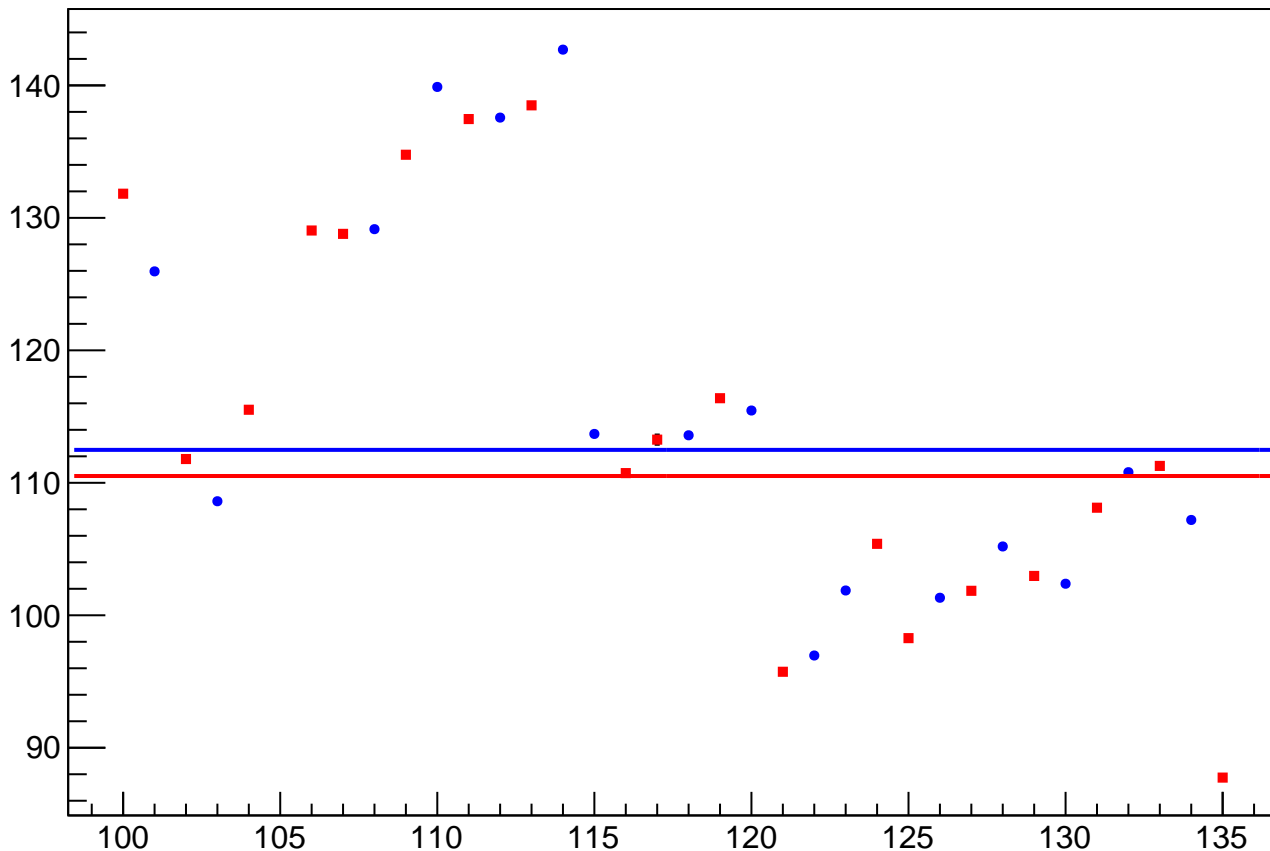
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

165.899+/-46.956  $\chi^2$ /NDF: 8.2/15

81.632+/-31.433  $\chi^2$ /NDF: 25.6/34

13.214+/-42.311  $\chi^2$ /NDF: 11.6/18

# reg\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 112.487+/-0.033  $\chi^2/\text{NDF}$ : 143732.5/15

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

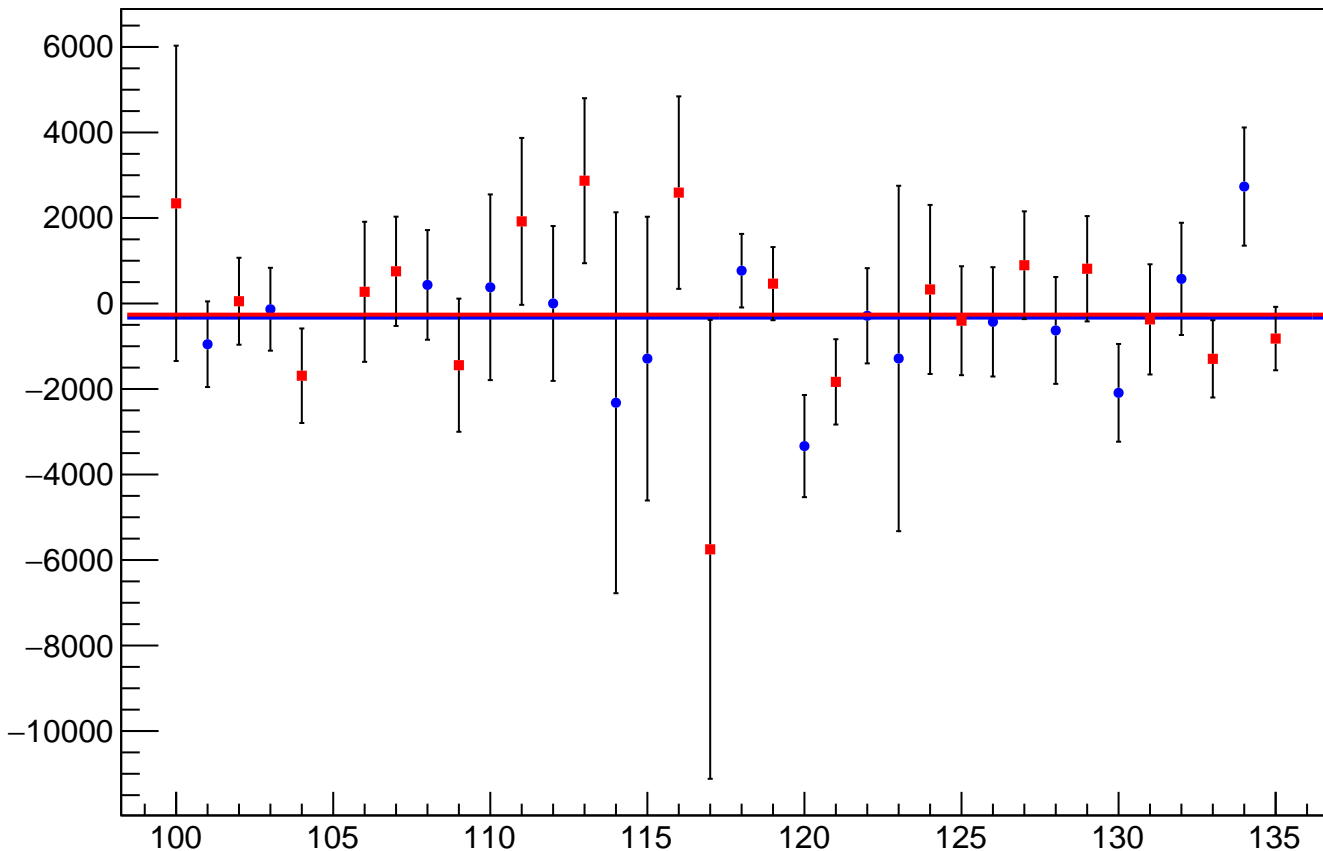
112.487+/-0.033  $\chi^2/\text{NDF}$ : 143732.5/15

111.398+/-0.022  $\chi^2/\text{NDF}$ : 386480.6/34

110.514+/-0.030  $\chi^2/\text{NDF}$ : 240799.3/18



asym\_sam\_26\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -330.131+/-326.742  $\chi^2$ /NDF: 17.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -260.426+/-286.375  $\chi^2$ /NDF: 16.9/18

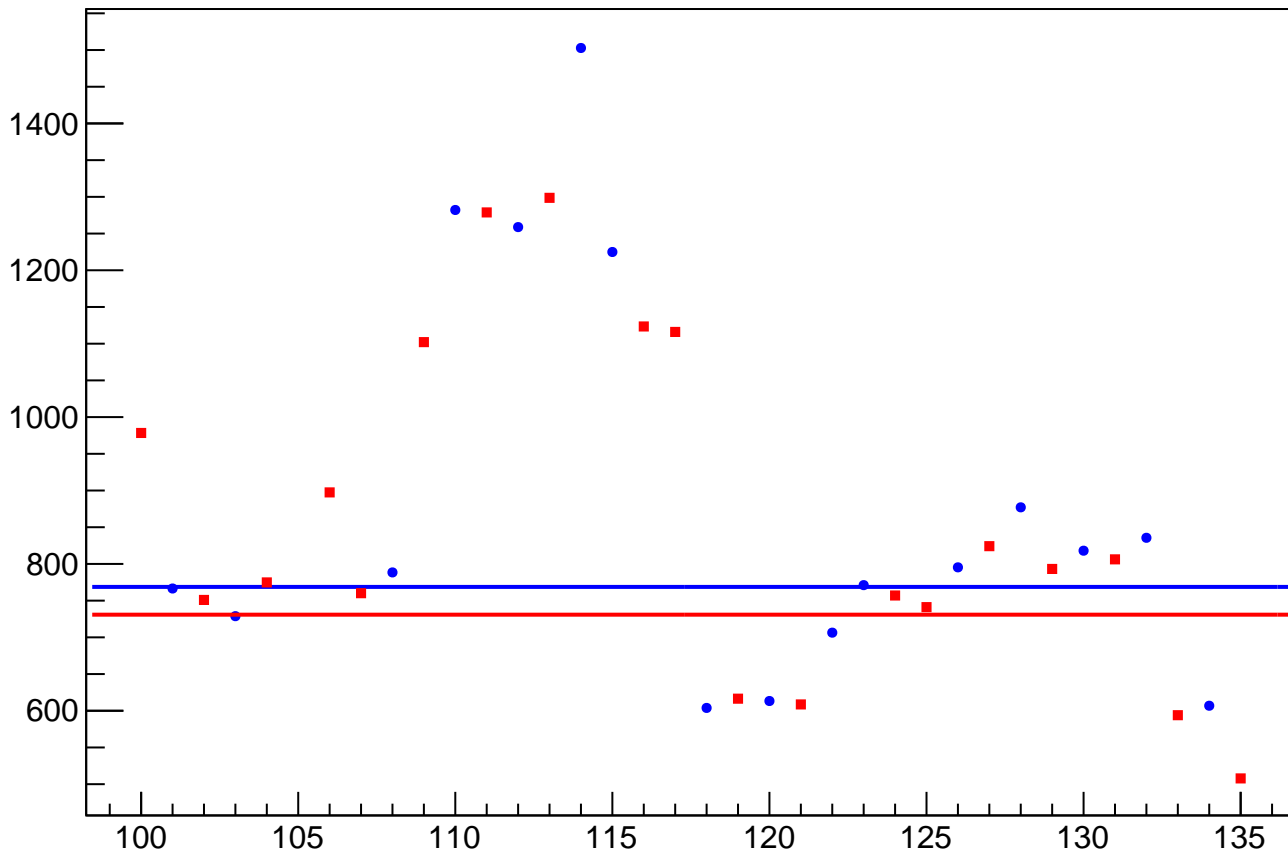
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-330.131+/-326.742  $\chi^2$ /NDF: 17.0/15

-290.709+/-215.364  $\chi^2$ /NDF: 34.0/34

-260.426+/-286.375  $\chi^2$ /NDF: 16.9/18

# asym\_sam\_26\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 768.705+/-0.231  $\chi^2$ /NDF: 519986.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 730.876+/-0.202  $\chi^2$ /NDF: 866096.3/18

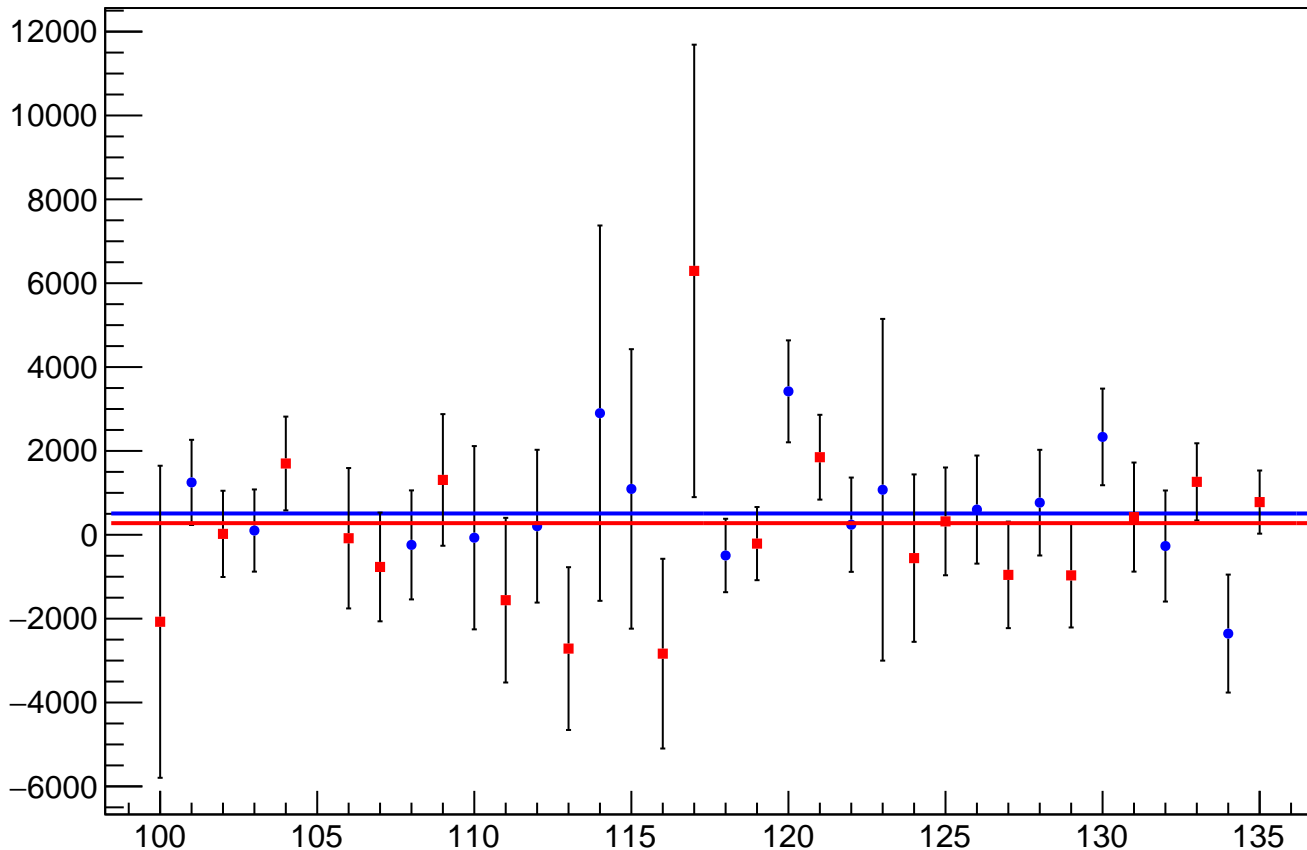
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

768.705+/-0.231  $\chi^2$ /NDF: 519986.7/15

747.311+/-0.152  $\chi^2$ /NDF: 1401245.0/34

730.876+/-0.202  $\chi^2$ /NDF: 866096.3/18

# asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 508.379+/-330.668  $\chi^2$ /NDF: 15.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 277.457+/-290.105  $\chi^2$ /NDF: 16.1/18

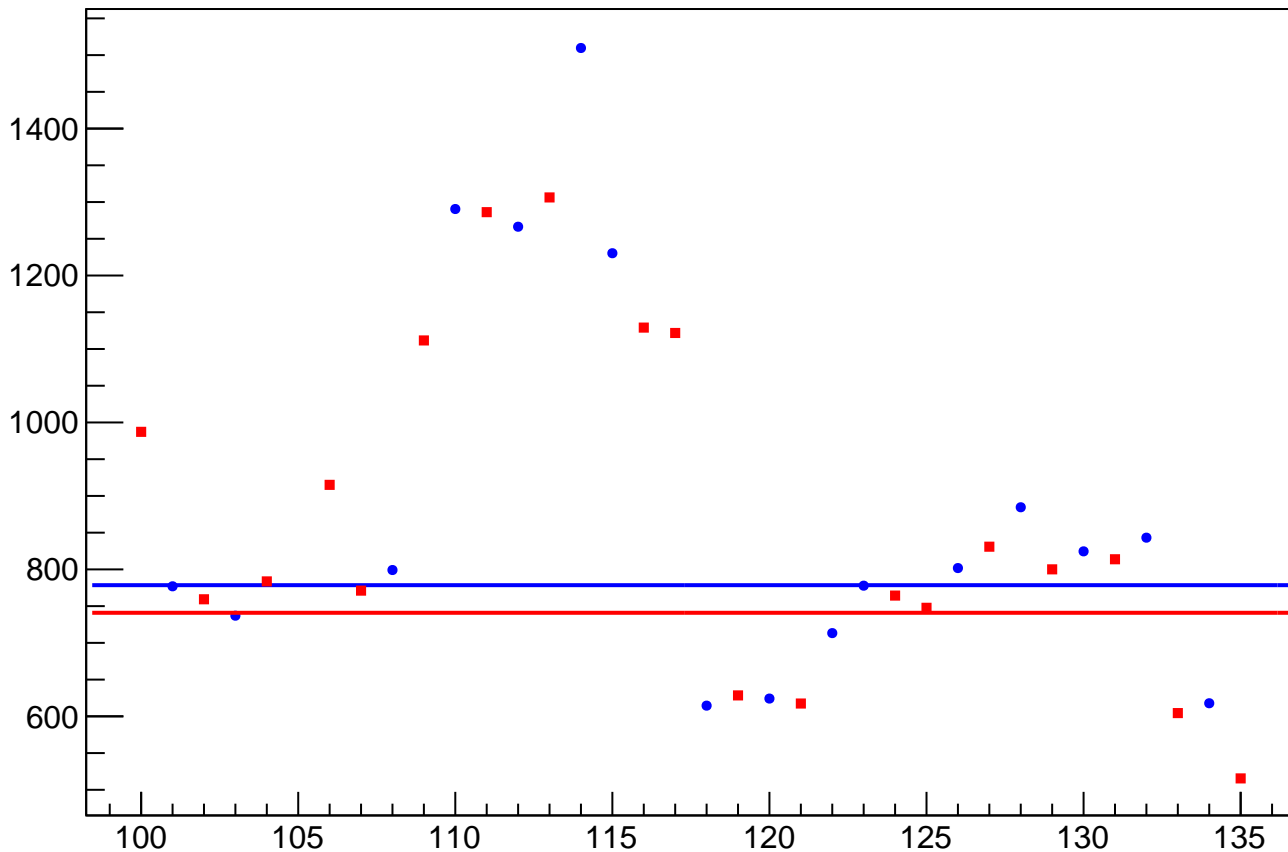
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

508.379+/-330.668  $\chi^2$ /NDF: 15.6/15

377.893+/-218.074  $\chi^2$ /NDF: 32.0/34

277.457+/-290.105  $\chi^2$ /NDF: 16.1/18

# asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 778.531+/-0.234  $\chi^2$ /NDF: 505388.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 740.944+/-0.205  $\chi^2$ /NDF: 846897.9/18

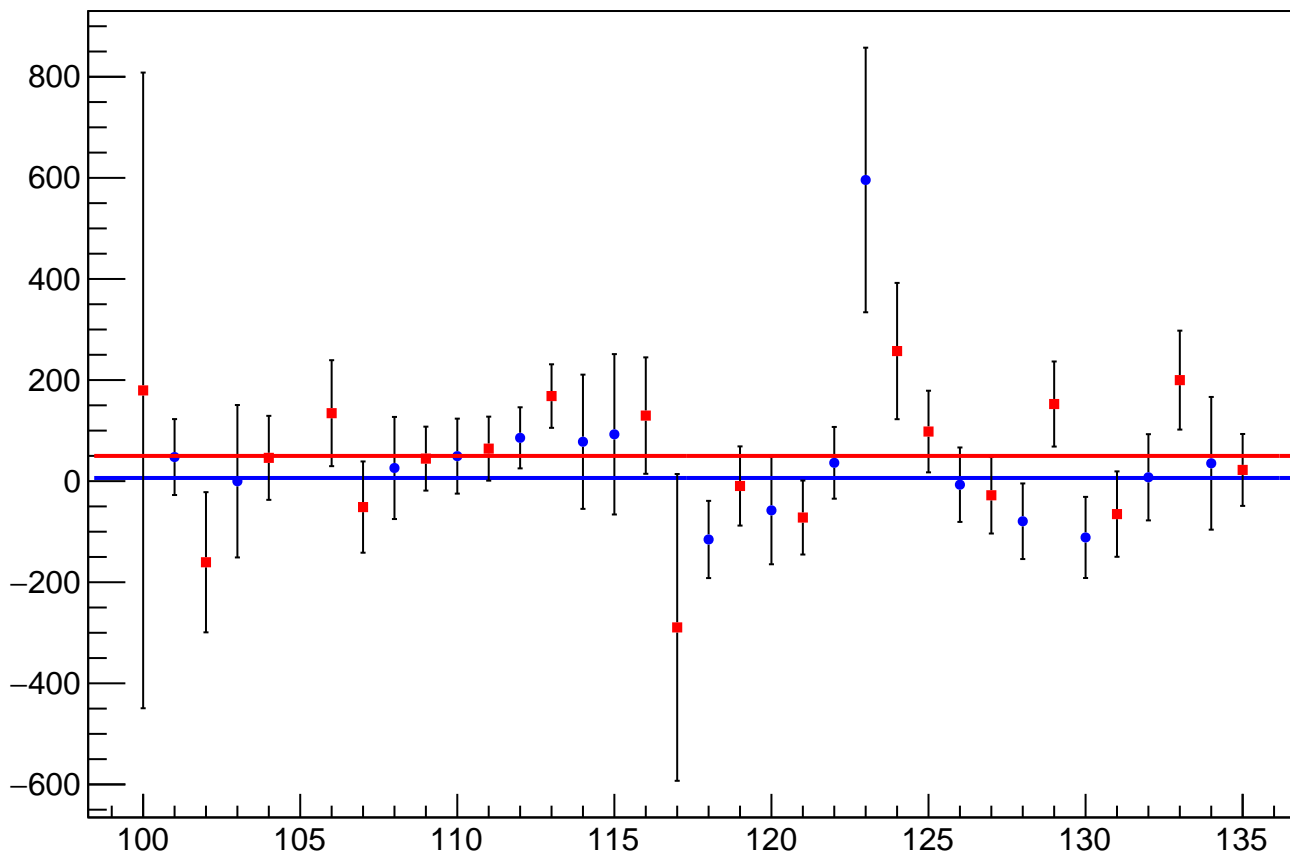
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

778.531+/-0.234  $\chi^2$ /NDF: 505388.2/15

757.292+/-0.154  $\chi^2$ /NDF: 1366887.7/34

740.944+/-0.205  $\chi^2$ /NDF: 846897.9/18

# reg\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 6.282 $\pm$ 22.046  $\chi^2$ /NDF: 14.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 49.910 $\pm$ 19.734  $\chi^2$ /NDF: 22.6/18

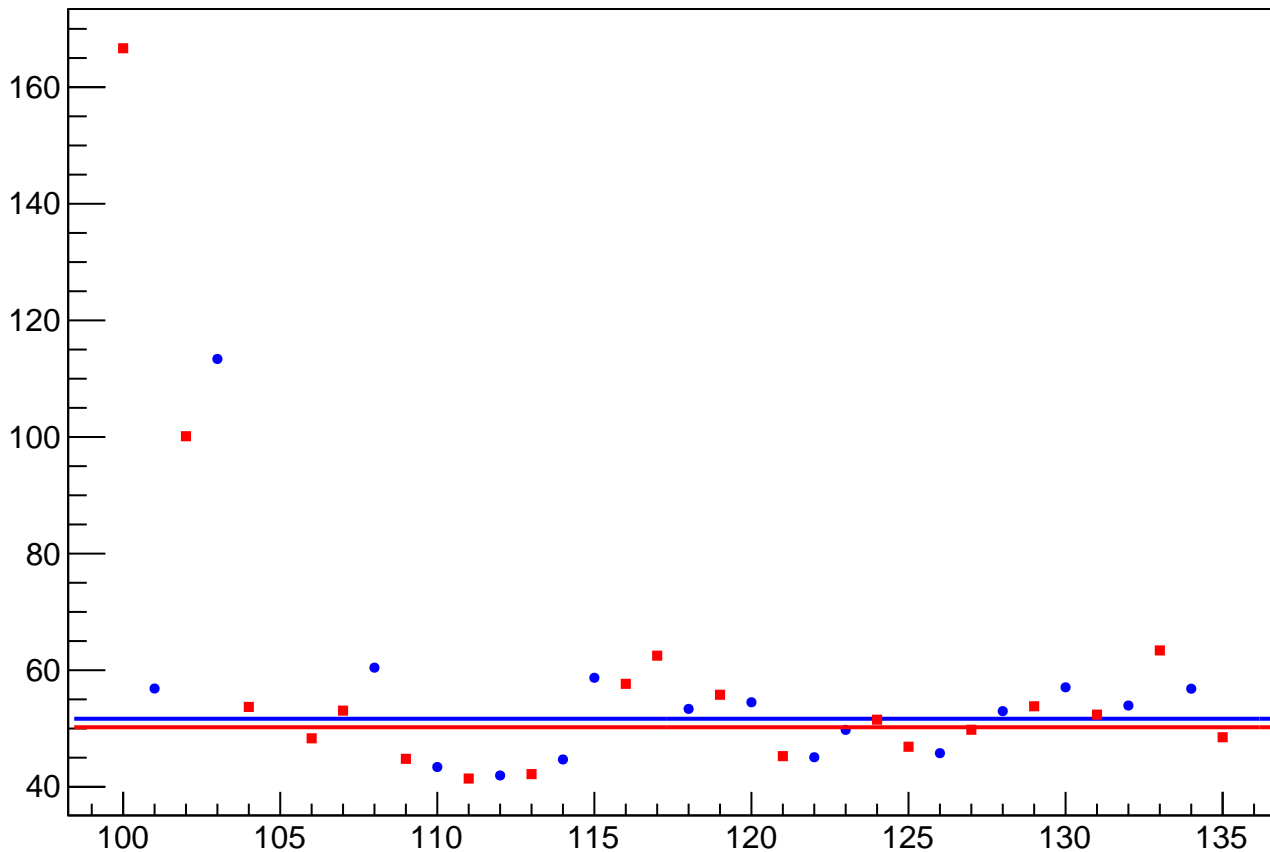
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

6.282 $\pm$ 22.046  $\chi^2$ /NDF: 14.7/15

30.503 $\pm$ 14.704  $\chi^2$ /NDF: 39.4/34

49.910 $\pm$ 19.734  $\chi^2$ /NDF: 22.6/18

# reg\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 51.678+/-0.016  $\chi^2$ /NDF: 492497.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 50.218+/-0.014  $\chi^2$ /NDF: 496813.4/18

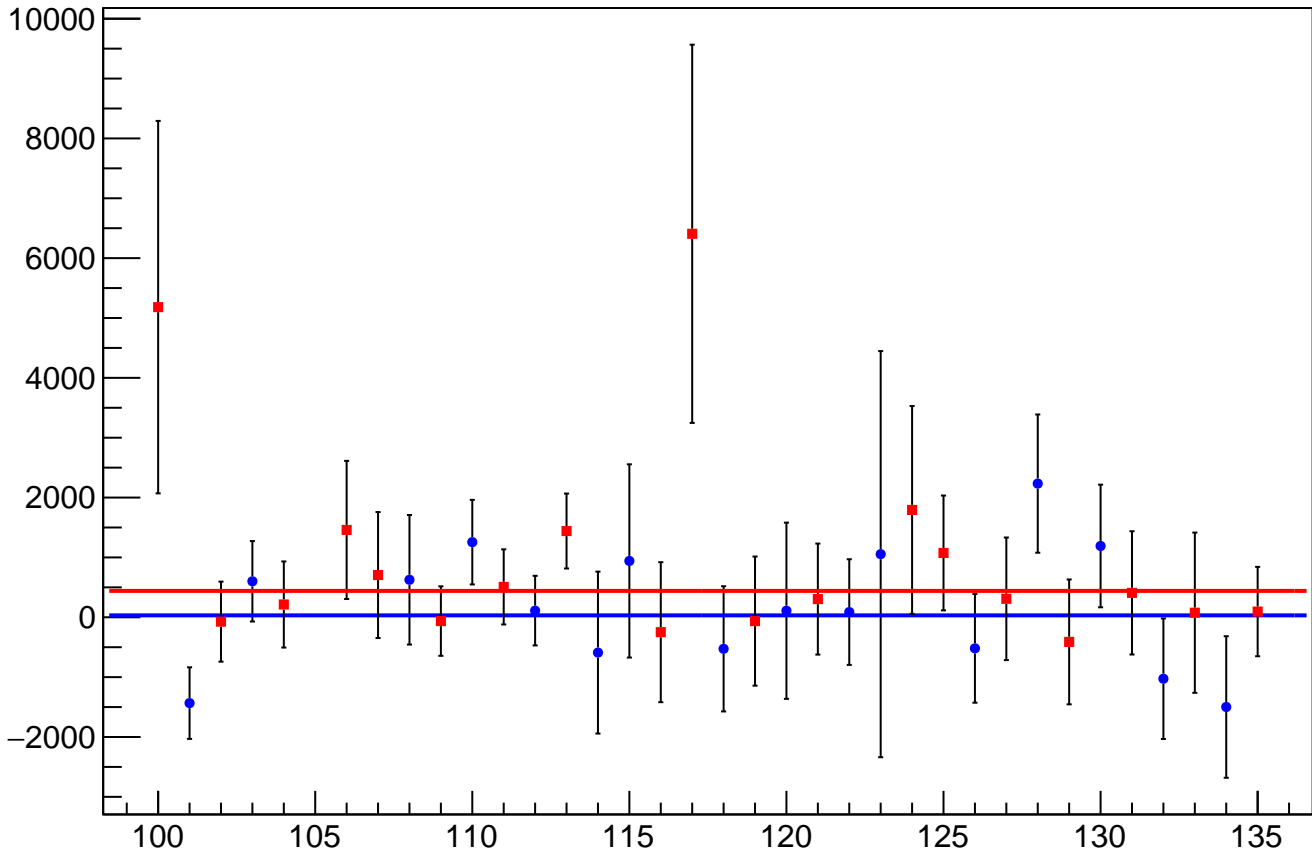
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

51.678+/-0.016  $\chi^2$ /NDF: 492497.7/15

50.868+/-0.010  $\chi^2$ /NDF: 994176.2/34

50.218+/-0.014  $\chi^2$ /NDF: 496813.4/18

# asym\_sam\_1357\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 32.000+/-228.677  $\chi^2$ /NDF: 19.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 440.986+/-206.615  $\chi^2$ /NDF: 13.3/18

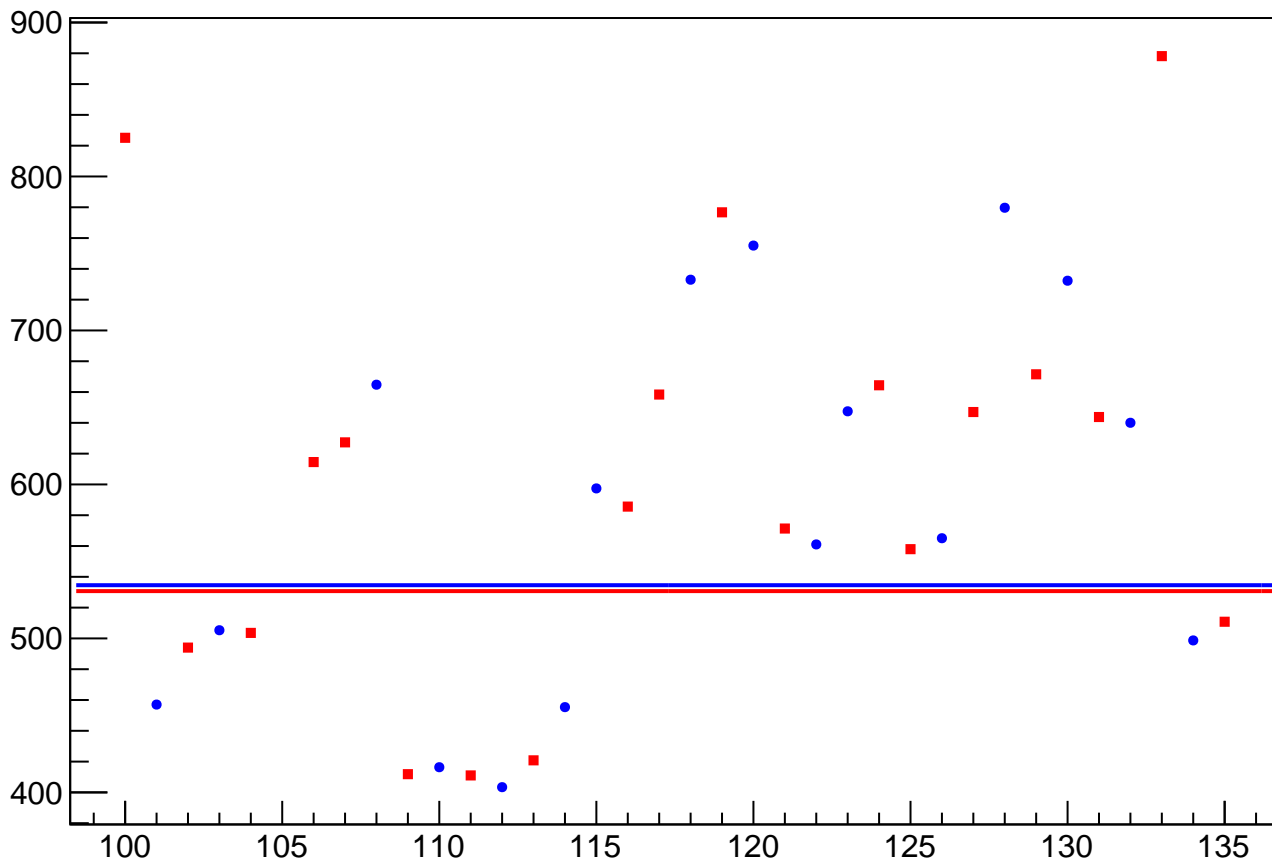
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

32.000+/-228.677  $\chi^2$ /NDF: 19.0/15

257.168+/-153.307  $\chi^2$ /NDF: 34.1/34

440.986+/-206.615  $\chi^2$ /NDF: 13.3/18

asym\_sam\_1357\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 534.558+/-0.162  $\chi^2$ /NDF: 545709.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 530.722+/-0.146  $\chi^2$ /NDF: 623983.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

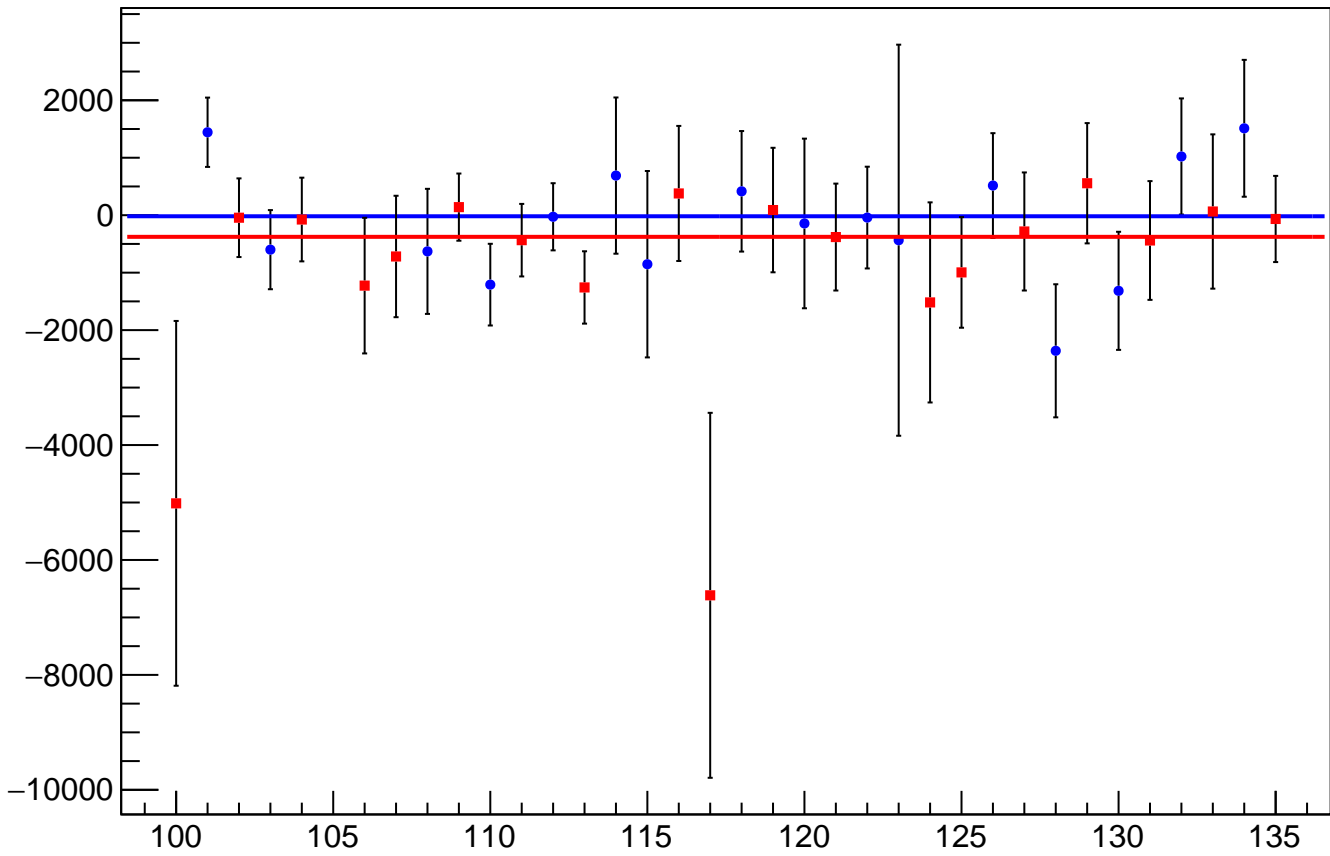
534.558+/-0.162  $\chi^2$ /NDF: 545709.6/15

532.446+/-0.108  $\chi^2$ /NDF: 1170003.1/34

530.722+/-0.146  $\chi^2$ /NDF: 623983.7/18



# asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In:  $-18.665 \pm 230.383$   $\chi^2/\text{NDF}: 19.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-376.575 \pm 208.232$   $\chi^2/\text{NDF}: 12.3/18$

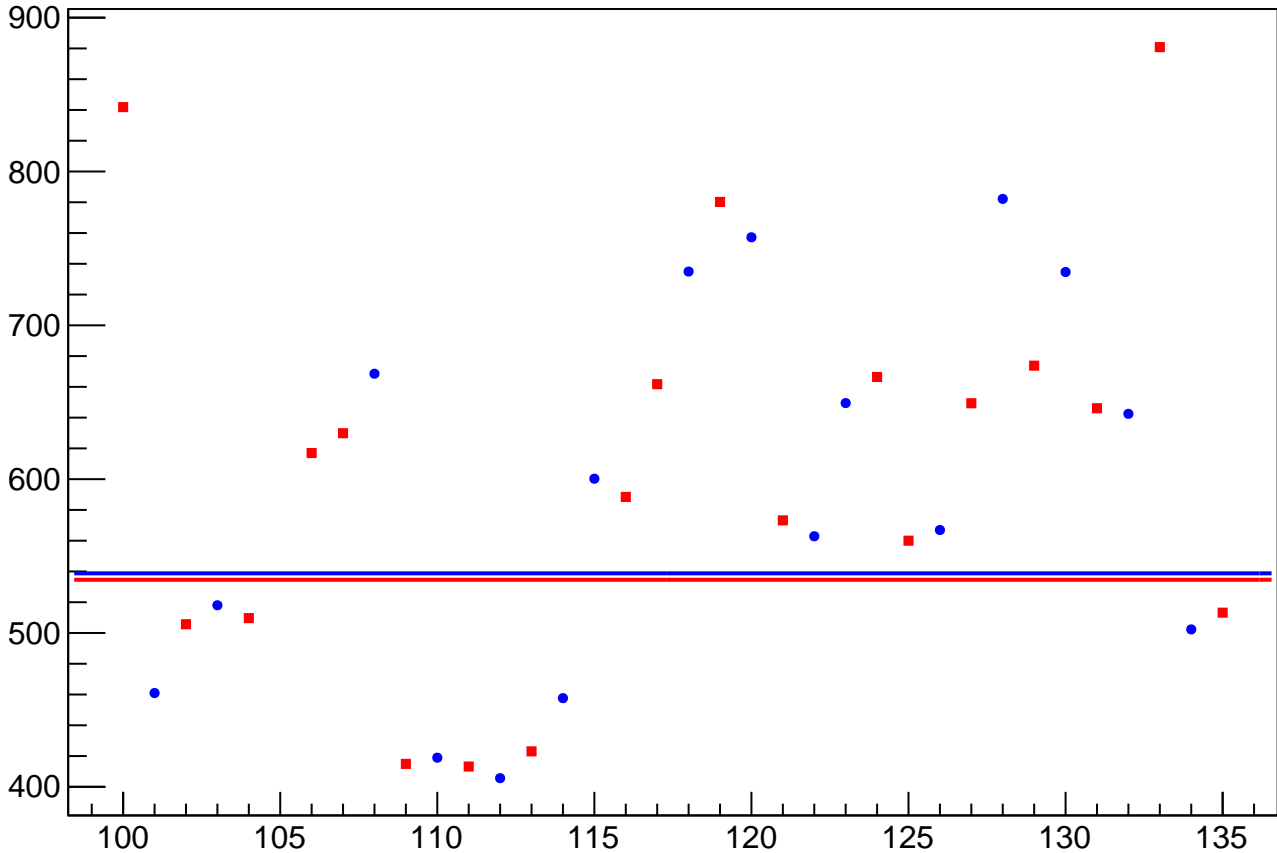
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-18.665 \pm 230.383$   $\chi^2/\text{NDF}: 19.2/15$

$-215.650 \pm 154.481$   $\chi^2/\text{NDF}: 32.8/34$

$-376.575 \pm 208.232$   $\chi^2/\text{NDF}: 12.3/18$

# asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 538.774+/-0.163  $\chi^2/\text{NDF}$ : 537491.0/15

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

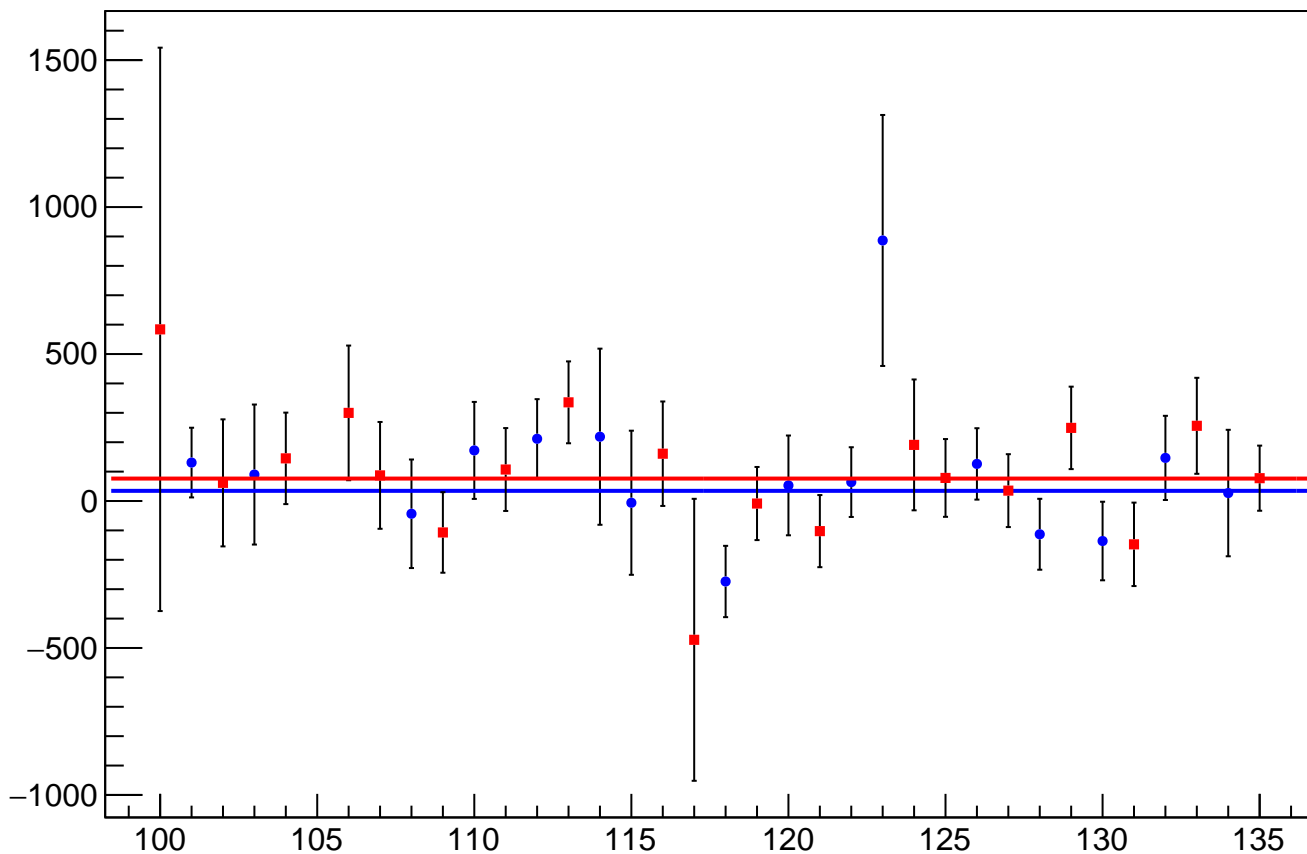
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

538.774+/-0.163  $\chi^2/\text{NDF}$ : 537491.0/15

536.482+/-0.109  $\chi^2/\text{NDF}$ : 1153933.4/34

534.609+/-0.147  $\chi^2/\text{NDF}$ : 616082.8/18

# reg\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 34.565+/-38.355  $\chi^2$ /NDF: 18.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 76.339+/-35.418  $\chi^2$ /NDF: 16.4/18

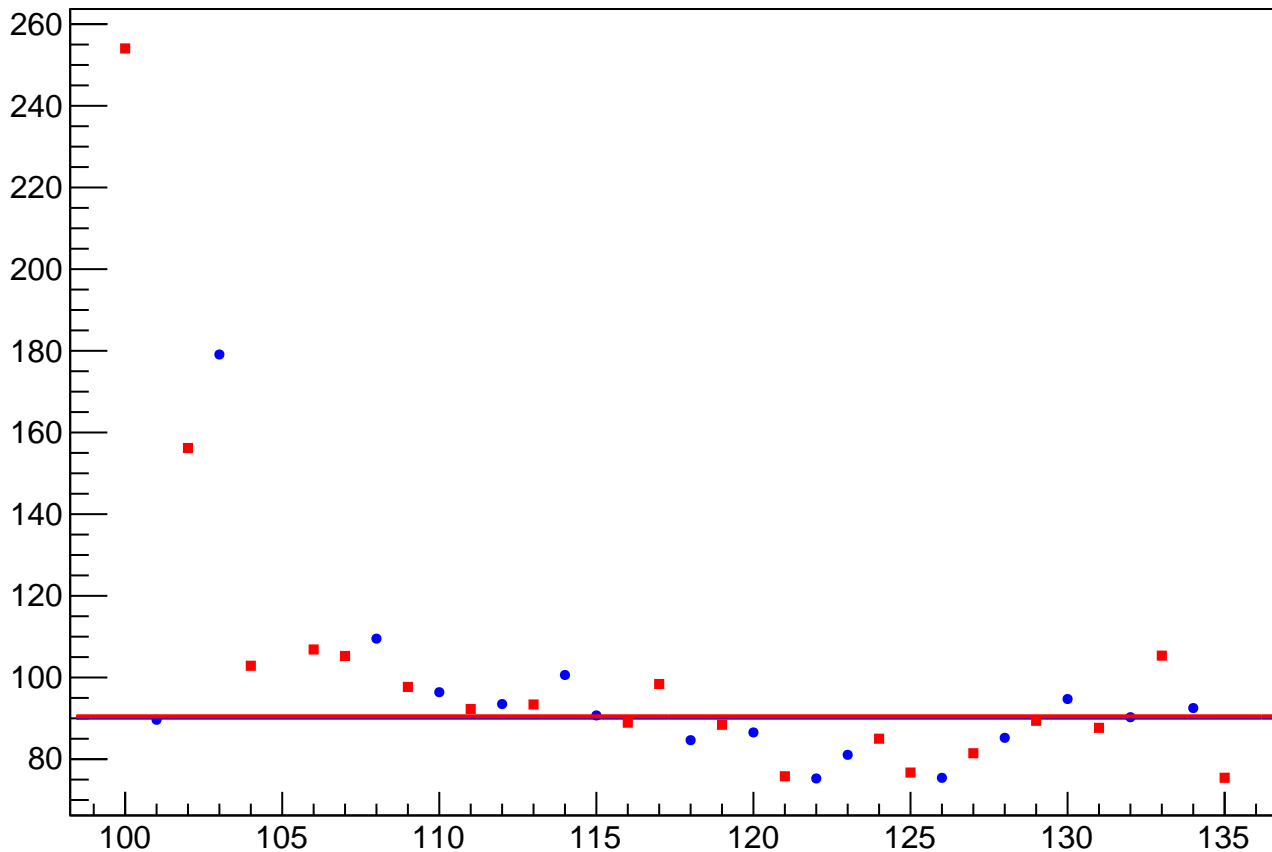
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

34.565+/-38.355  $\chi^2$ /NDF: 18.5/15

57.113+/-26.021  $\chi^2$ /NDF: 35.6/34

76.339+/-35.418  $\chi^2$ /NDF: 16.4/18

# reg\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 90.169+/-0.027  $\chi^2$ /NDF: 380137.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 90.501+/-0.025  $\chi^2$ /NDF: 403720.0/18

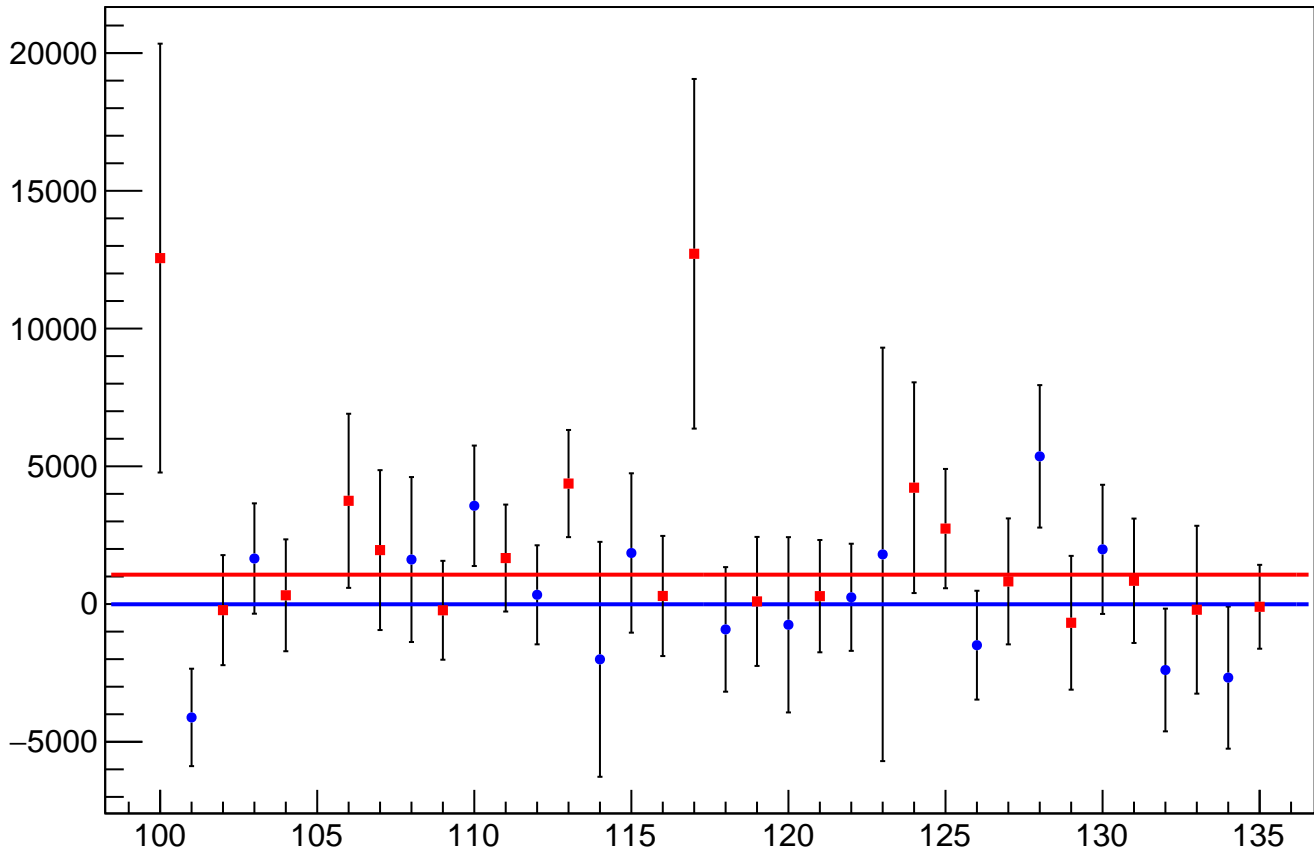
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

90.169+/-0.027  $\chi^2$ /NDF: 380137.6/15

90.348+/-0.018  $\chi^2$ /NDF: 783938.5/34

90.501+/-0.025  $\chi^2$ /NDF: 403720.0/18

asym\_sam\_2468\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-7.871 \pm 588.214$   $\chi^2/\text{NDF}: 17.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1067.033 \pm 526.701$   $\chi^2/\text{NDF}: 13.4/18$

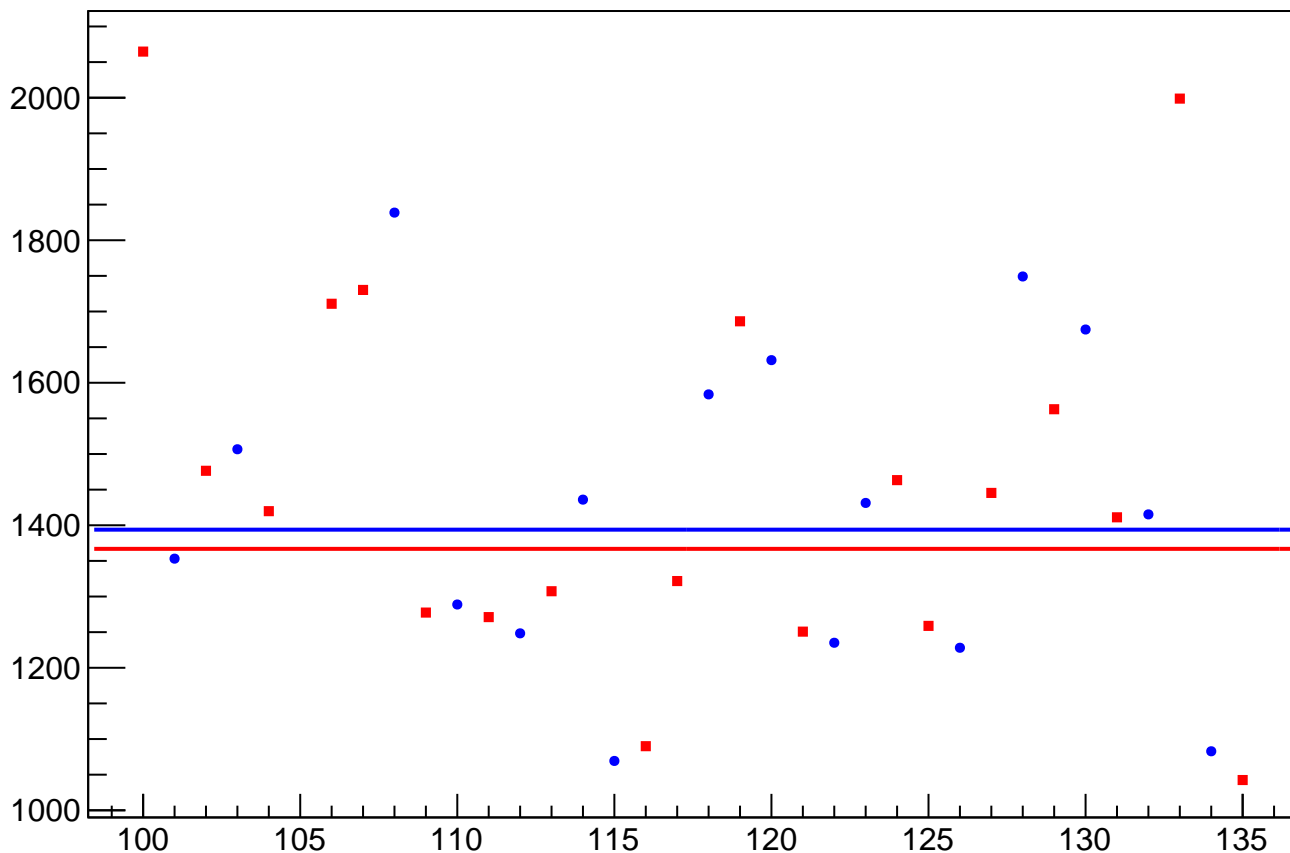
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-7.871 \pm 588.214$   $\chi^2/\text{NDF}: 17.8/15$

$588.707 \pm 392.385$   $\chi^2/\text{NDF}: 33.1/34$

$1067.033 \pm 526.701$   $\chi^2/\text{NDF}: 13.4/18$

asym\_sam\_2468\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1393.839+/-0.416  $\chi^2$ /NDF: 243152.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1366.905+/-0.372  $\chi^2$ /NDF: 365488.5/18

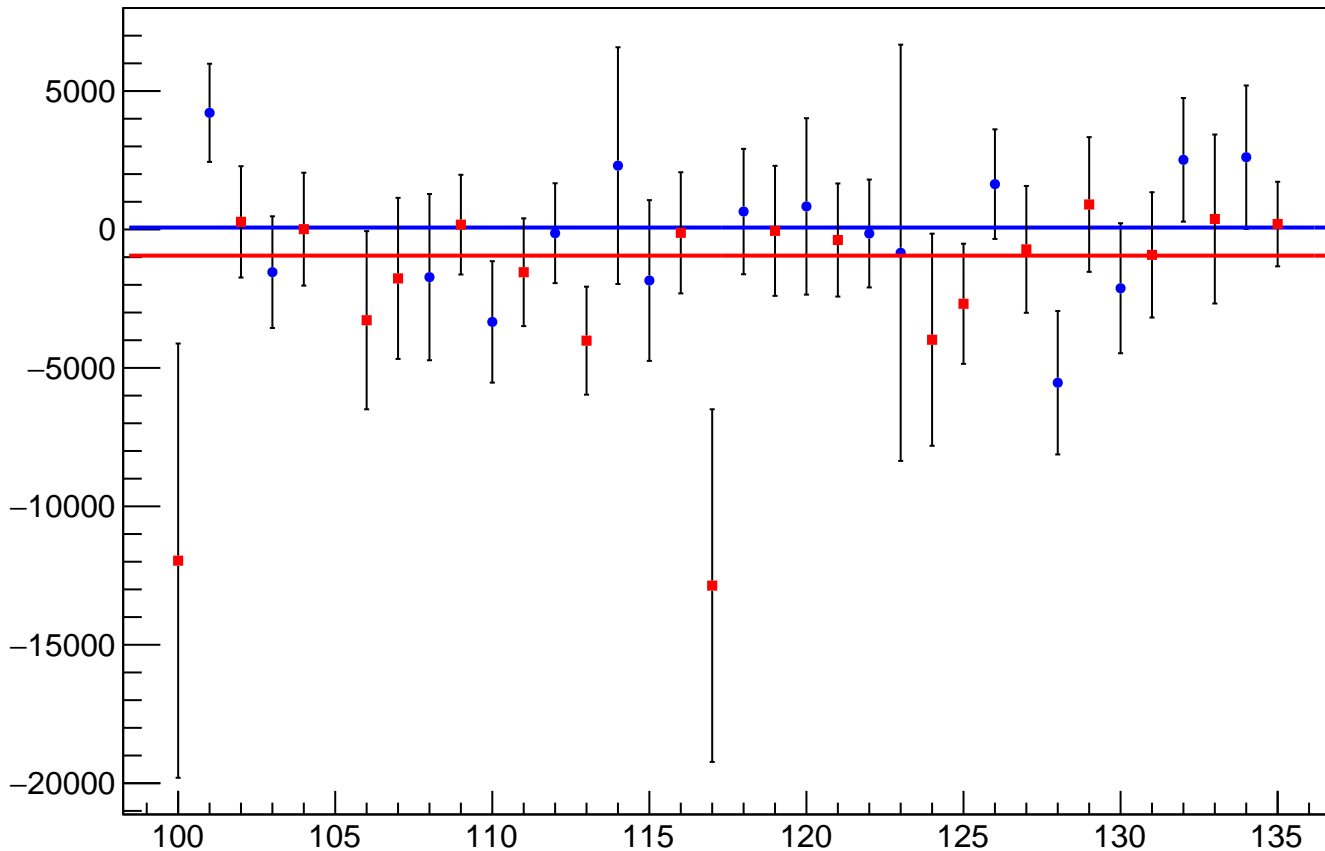
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1393.839+/-0.416  $\chi^2$ /NDF: 243152.6/15

1378.890+/-0.277  $\chi^2$ /NDF: 610968.4/34

1366.905+/-0.372  $\chi^2$ /NDF: 365488.5/18

# asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In:  $69.625 \pm 589.857$   $\chi^2/\text{NDF}: 18.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-944.364 \pm 528.466$   $\chi^2/\text{NDF}: 12.6/18$

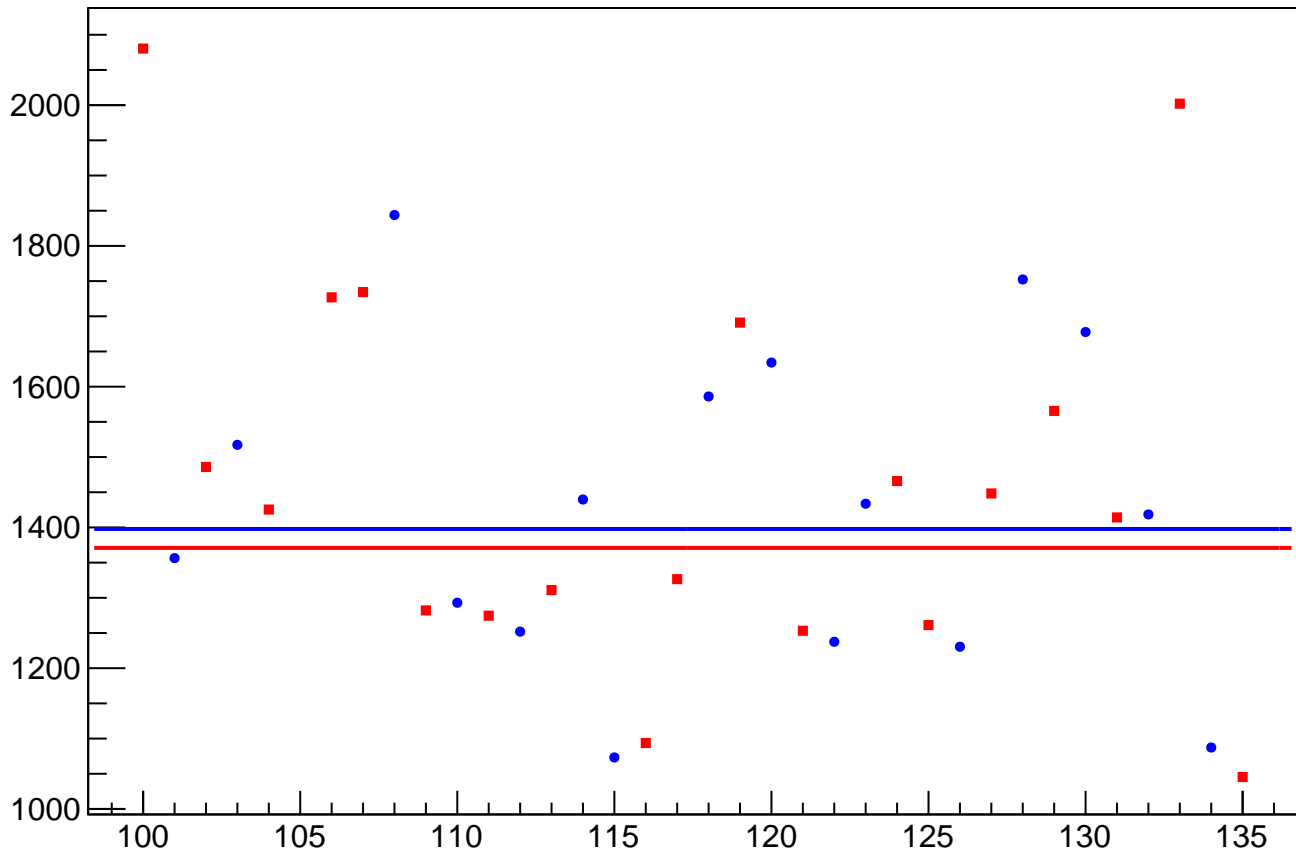
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$69.625 \pm 589.857$   $\chi^2/\text{NDF}: 18.1/15$

$-492.866 \pm 393.603$   $\chi^2/\text{NDF}: 32.3/34$

$-944.364 \pm 528.466$   $\chi^2/\text{NDF}: 12.6/18$

# asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 1397.792 $\pm$ 0.417  $\chi^2$ /NDF: 242659.0/15

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

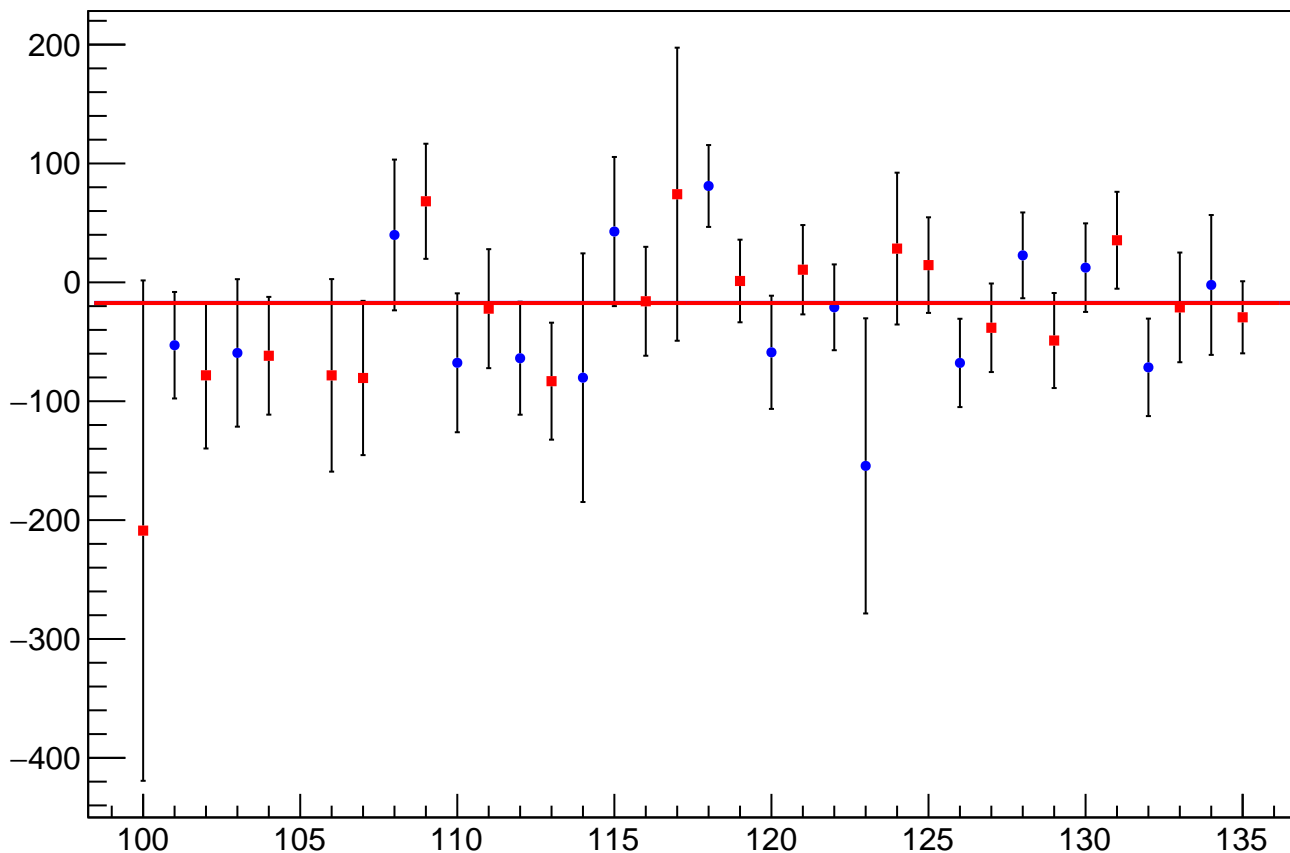
1397.792 $\pm$ 0.417  $\chi^2$ /NDF: 242659.0/15

1382.893 $\pm$ 0.278  $\chi^2$ /NDF: 611348.2/34

1370.934 $\pm$ 0.374  $\chi^2$ /NDF: 366388.9/18



# reg\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In:  $-17.263 \pm 11.703$   $\chi^2/\text{NDF}: 20.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-17.404 \pm 10.677$   $\chi^2/\text{NDF}: 14.3/18$

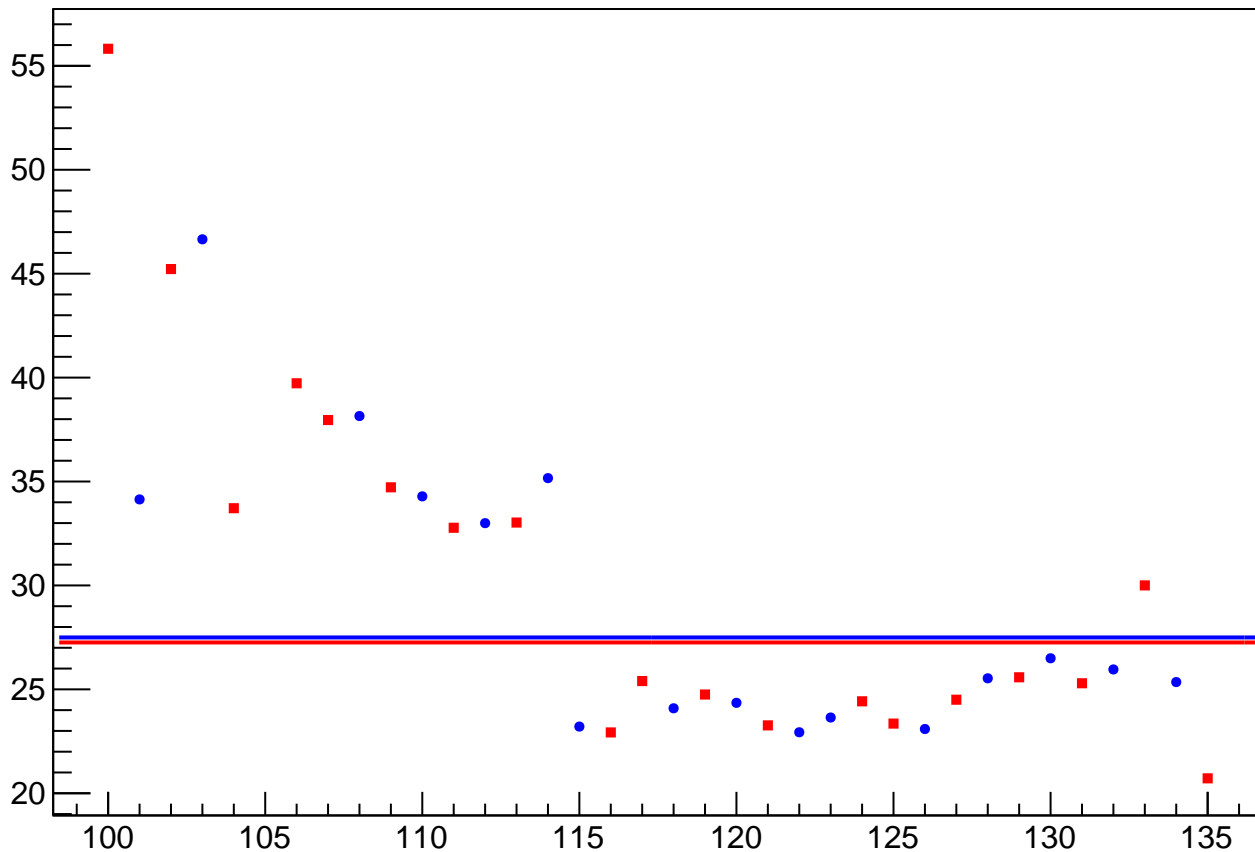
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-17.263 \pm 11.703$   $\chi^2/\text{NDF}: 20.6/15$

$-17.340 \pm 7.888$   $\chi^2/\text{NDF}: 34.9/34$

$-17.404 \pm 10.677$   $\chi^2/\text{NDF}: 14.3/18$

# reg\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 27.497+/-0.008  $\chi^2$ /NDF: 468212.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 27.256+/-0.008  $\chi^2$ /NDF: 635585.4/18

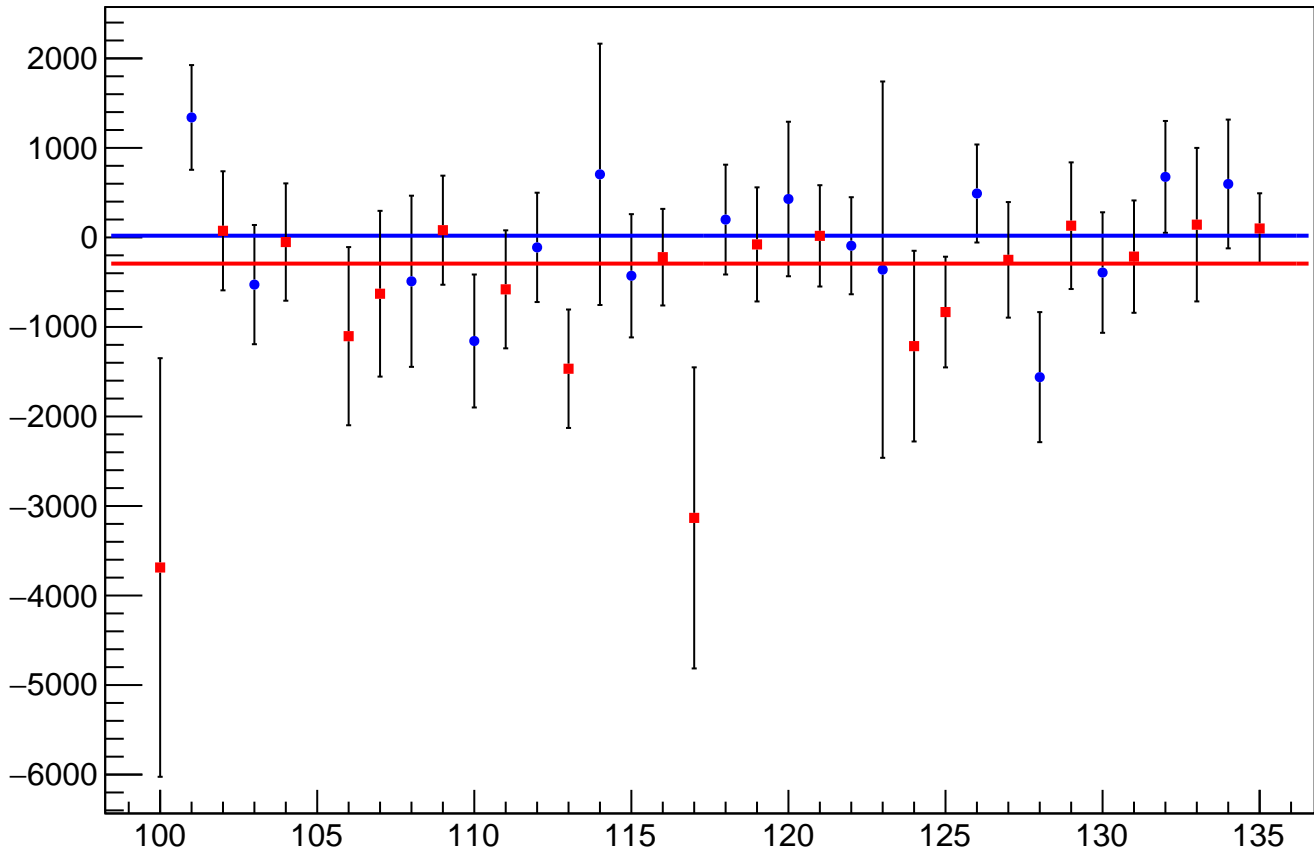
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

27.497+/-0.008  $\chi^2$ /NDF: 468212.7/15

27.366+/-0.006  $\chi^2$ /NDF: 1104260.3/34

27.256+/-0.008  $\chi^2$ /NDF: 635585.4/18

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 19.324+/-174.312  $\chi^2$ /NDF: 17.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -292.374+/-154.552  $\chi^2$ /NDF: 13.5/18

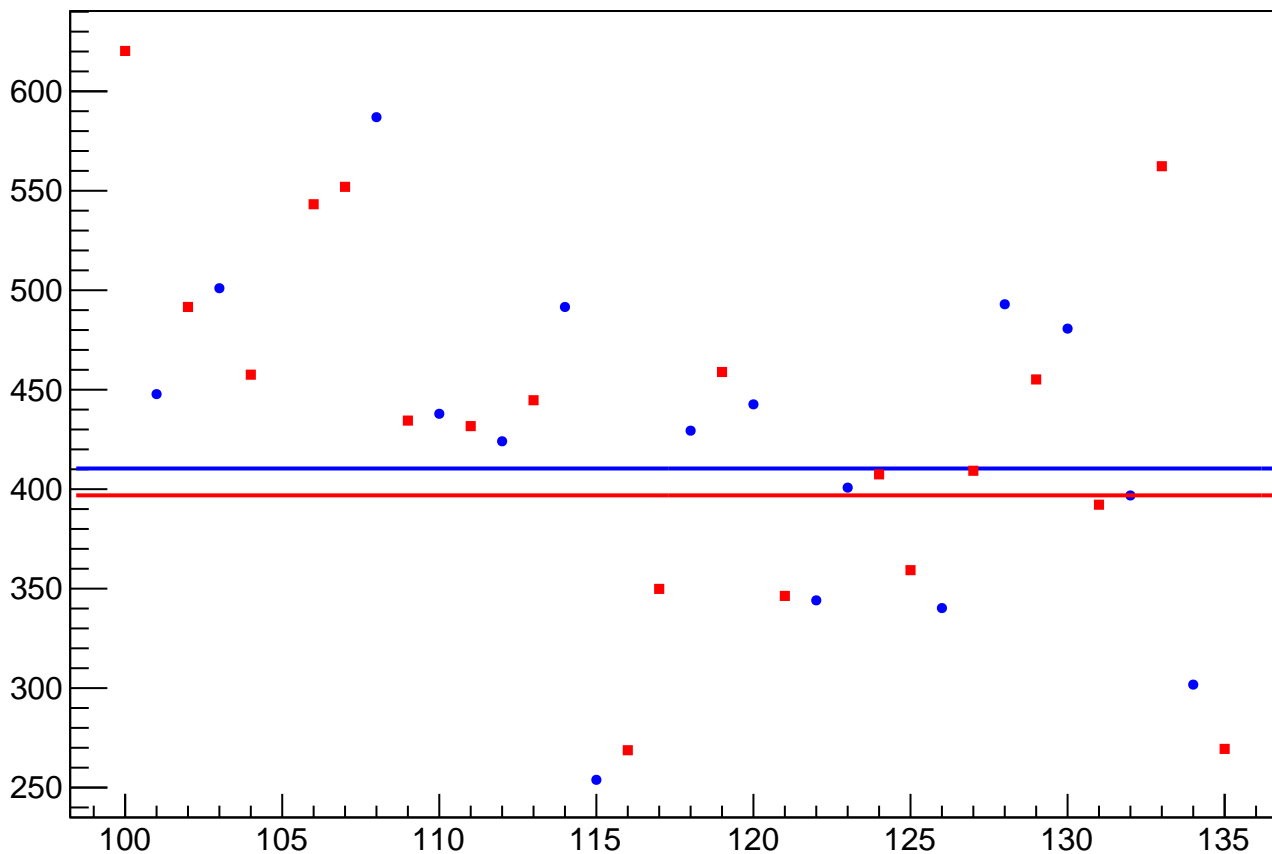
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

19.324+/-174.312  $\chi^2$ /NDF: 17.2/15

-155.186+/-115.643  $\chi^2$ /NDF: 32.5/34

-292.374+/-154.552  $\chi^2$ /NDF: 13.5/18

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 410.394+/-0.123  $\chi^2$ /NDF: 388536.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 396.888+/-0.109  $\chi^2$ /NDF: 654763.1/18

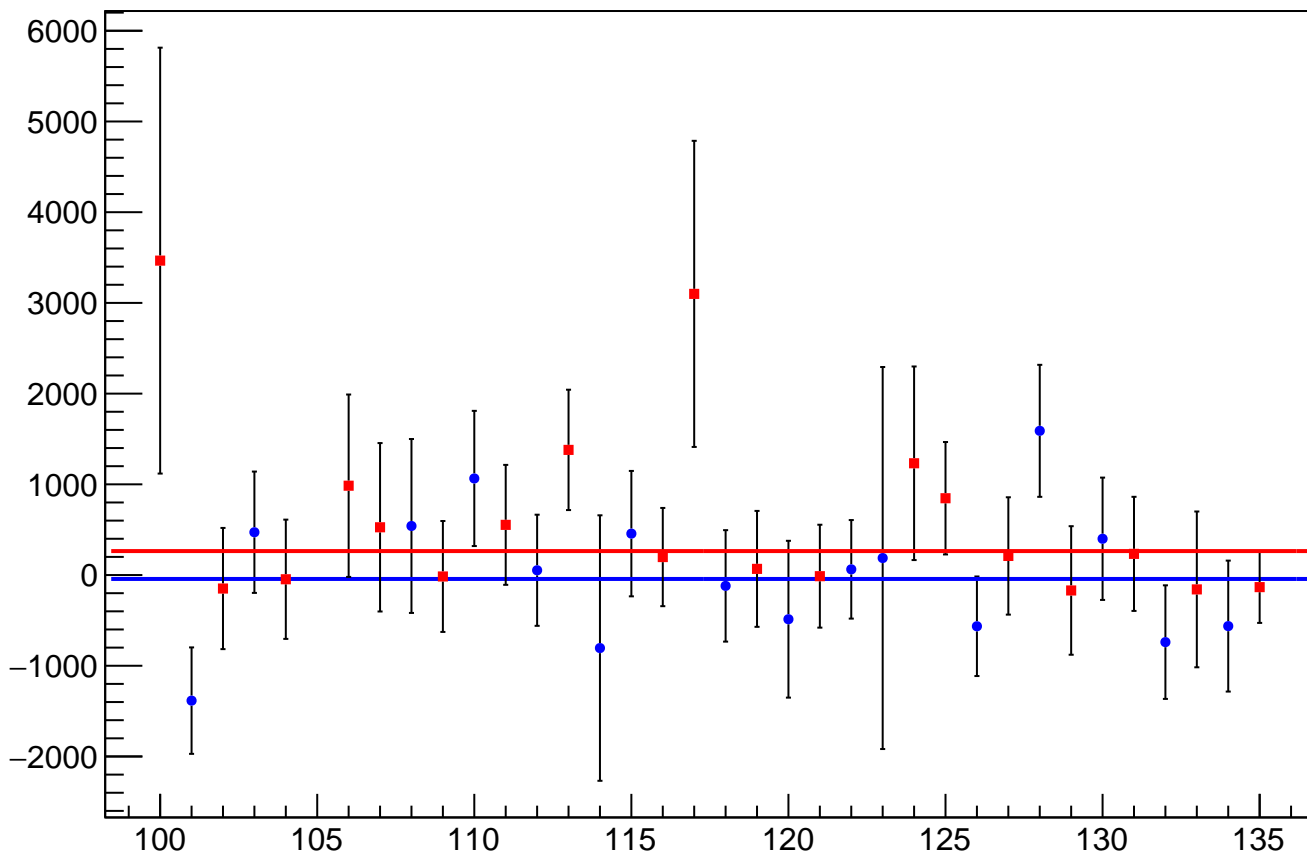
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

410.394+/-0.123  $\chi^2$ /NDF: 388536.2/15

402.833+/-0.082  $\chi^2$ /NDF: 1050021.1/34

396.888+/-0.109  $\chi^2$ /NDF: 654763.1/18

# asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: -43.124+/-174.779  $\chi^2$ /NDF: 17.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 264.255+/-155.014  $\chi^2$ /NDF: 12.8/18

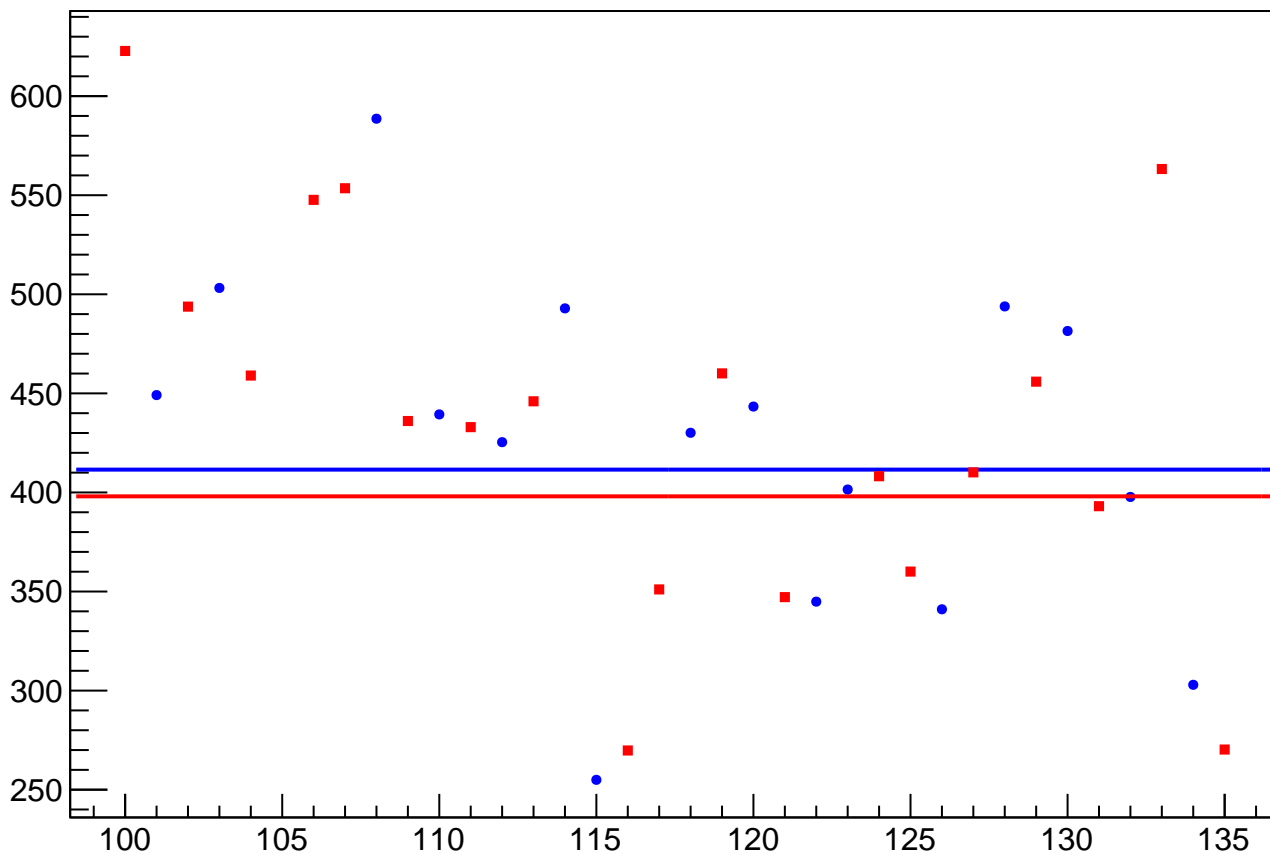
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-43.124+/-174.779  $\chi^2$ /NDF: 17.7/15

128.922+/-115.973  $\chi^2$ /NDF: 32.2/34

264.255+/-155.014  $\chi^2$ /NDF: 12.8/18

# asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 411.521+/-0.124  $\chi^2$ /NDF: 387678.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 398.035+/-0.110  $\chi^2$ /NDF: 655151.6/18

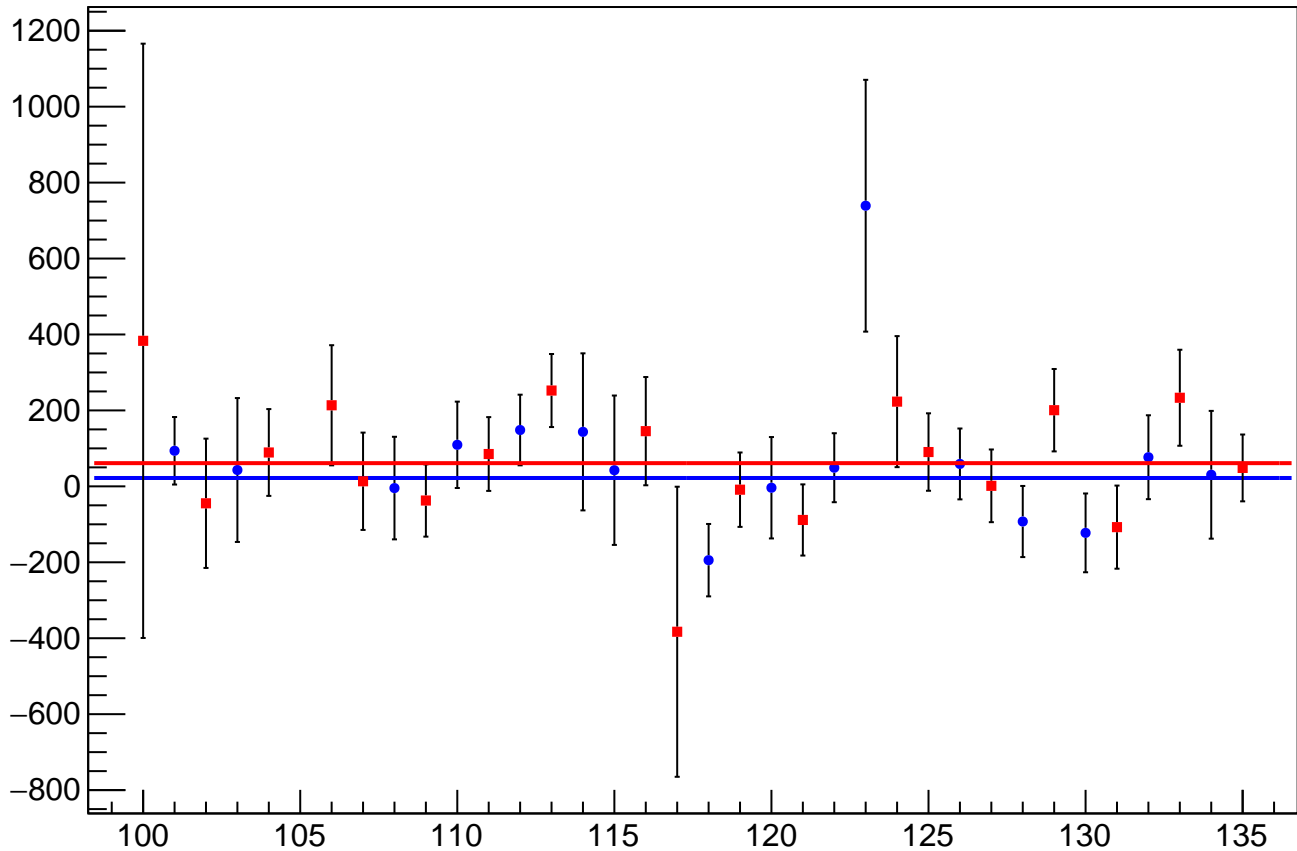
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

411.521+/-0.124  $\chi^2$ /NDF: 387678.6/15

403.973+/-0.082  $\chi^2$ /NDF: 1049495.4/34

398.035+/-0.110  $\chi^2$ /NDF: 655151.6/18

# reg\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 22.027+/-29.033  $\chi^2$ /NDF: 17.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 61.117+/-26.623  $\chi^2$ /NDF: 18.8/18

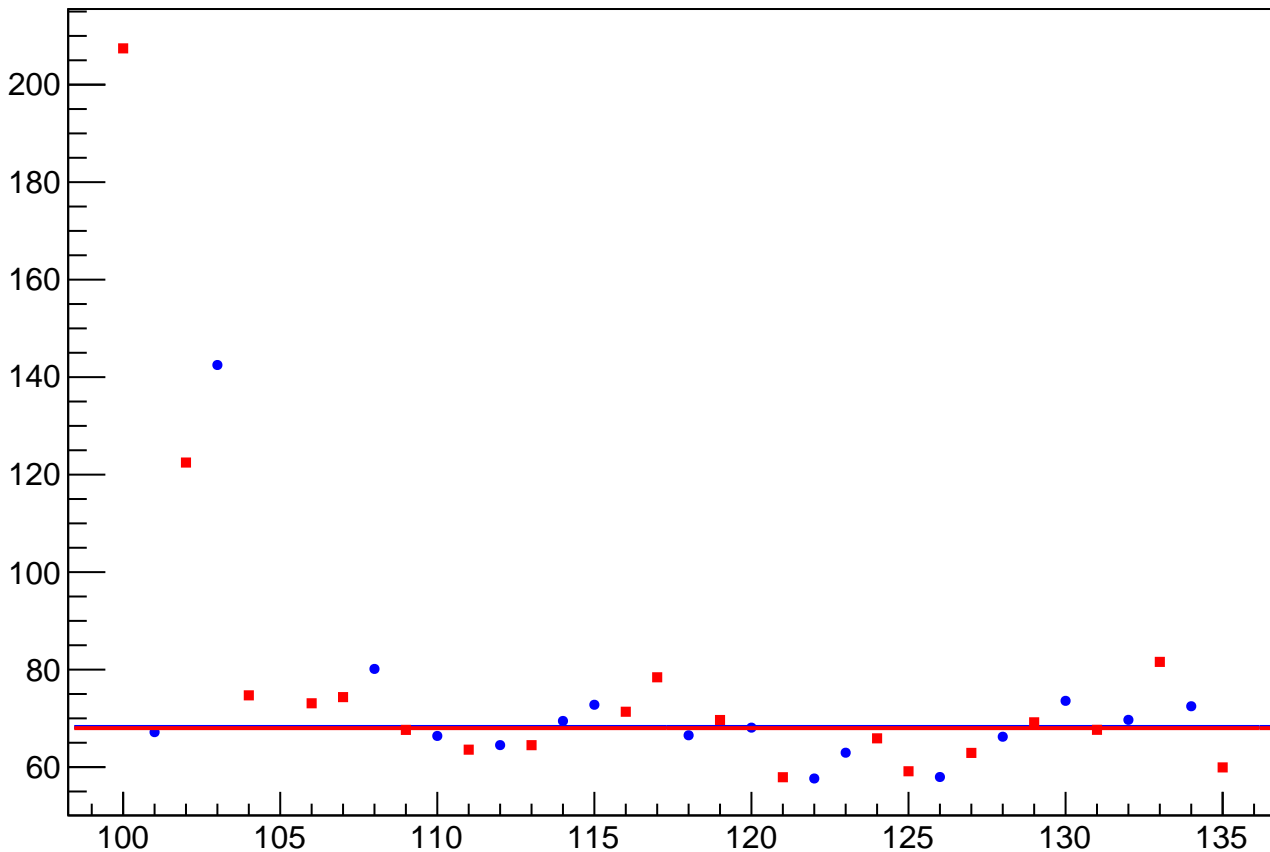
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

22.027+/-29.033  $\chi^2$ /NDF: 17.3/15

43.261+/-19.622  $\chi^2$ /NDF: 37.0/34

61.117+/-26.623  $\chi^2$ /NDF: 18.8/18

# reg\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 68.235+/-0.021  $\chi^2$ /NDF: 388074.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 67.996+/-0.019  $\chi^2$ /NDF: 376377.7/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

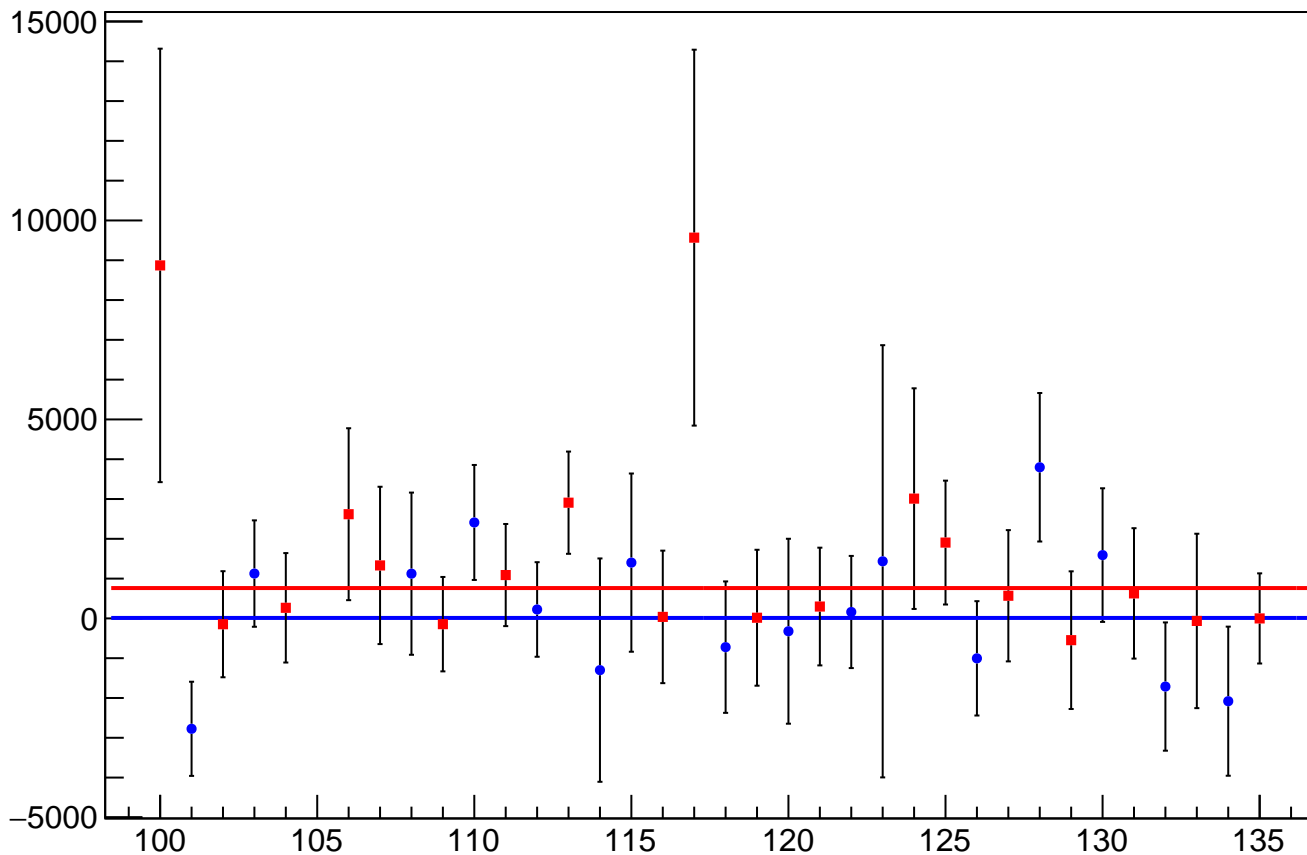
68.235+/-0.021  $\chi^2$ /NDF: 388074.1/15

68.105+/-0.014  $\chi^2$ /NDF: 764525.4/34

67.996+/-0.019  $\chi^2$ /NDF: 376377.7/18



asym\_sam\_12345678\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 11.567+/-411.214  $\chi^2$ /NDF: 18.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 762.475+/-369.364  $\chi^2$ /NDF: 13.4/18

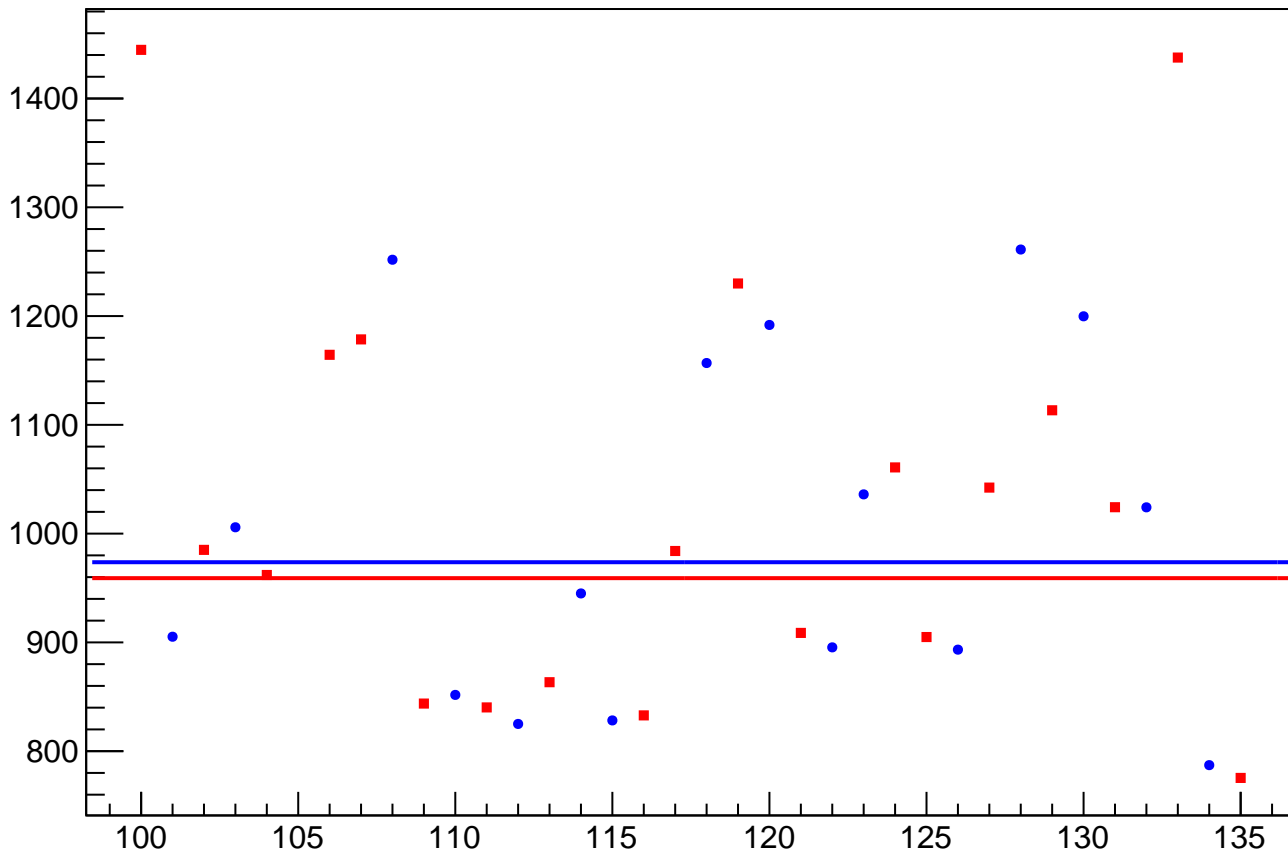
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

11.567+/-411.214  $\chi^2$ /NDF: 18.1/15

427.165+/-274.788  $\chi^2$ /NDF: 33.4/34

762.475+/-369.364  $\chi^2$ /NDF: 13.4/18

asym\_sam\_12345678\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 973.708+/-0.291  $\chi^2$ /NDF: 259733.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 959.061+/-0.261  $\chi^2$ /NDF: 347984.9/18

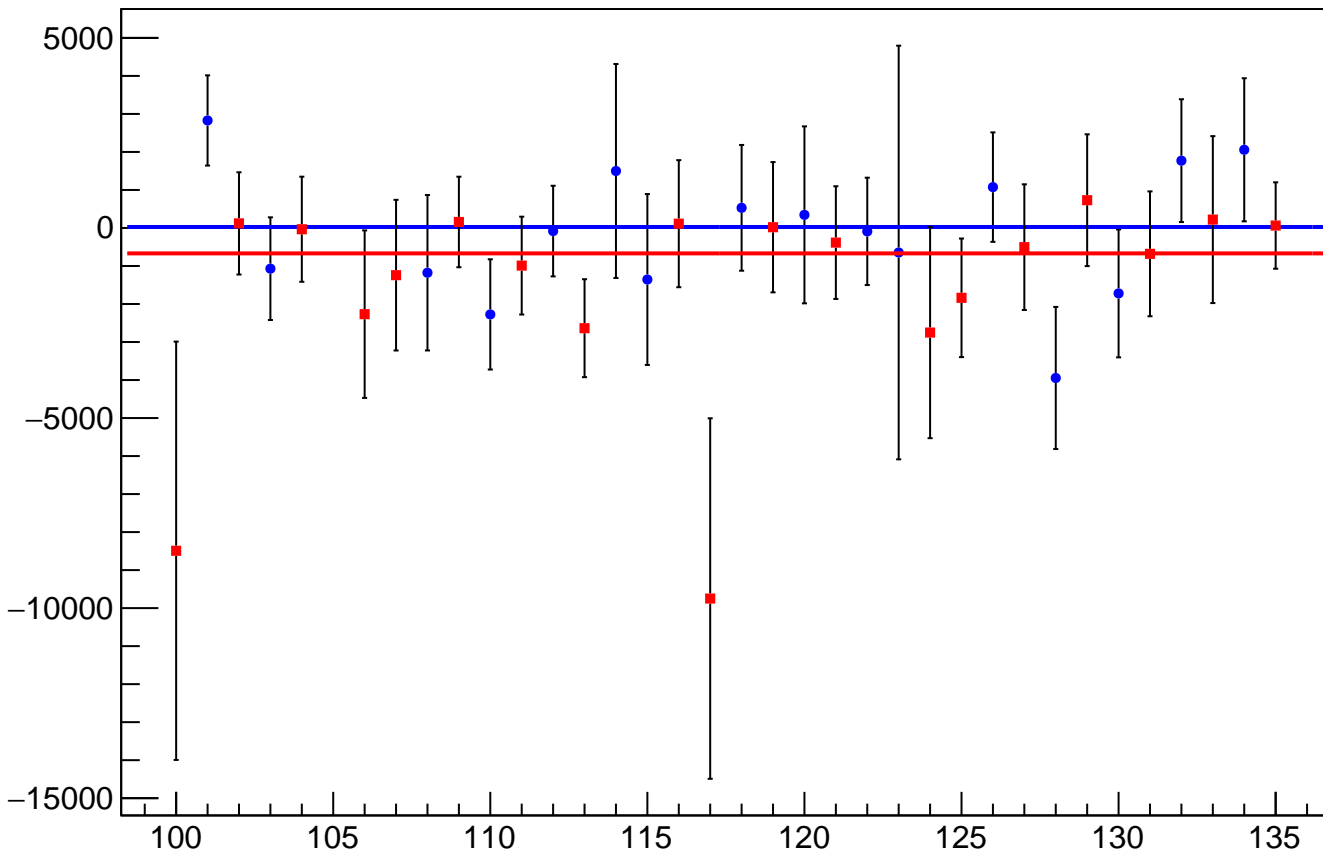
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

973.708+/-0.291  $\chi^2$ /NDF: 259733.2/15

965.602+/-0.194  $\chi^2$ /NDF: 609122.5/34

959.061+/-0.261  $\chi^2$ /NDF: 347984.9/18

# asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 26.080+/-412.625  $\chi^2$ /NDF: 18.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -668.356+/-370.853  $\chi^2$ /NDF: 12.5/18

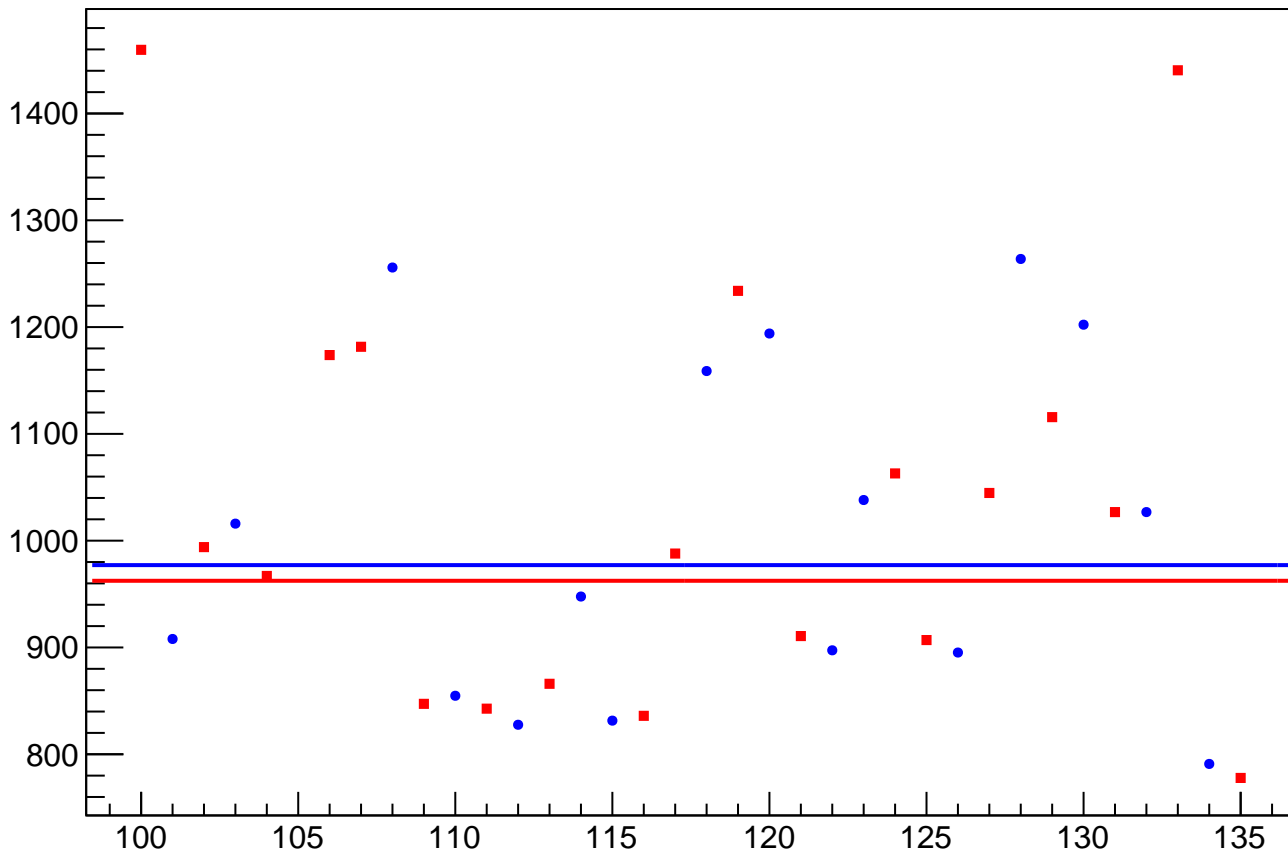
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

26.080+/-412.625  $\chi^2$ /NDF: 18.3/15

-358.057+/-275.822  $\chi^2$ /NDF: 32.4/34

-668.356+/-370.853  $\chi^2$ /NDF: 12.5/18

# asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 977.113+/-0.292  $\chi^2$ /NDF: 258791.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 962.440+/-0.262  $\chi^2$ /NDF: 348087.4/18

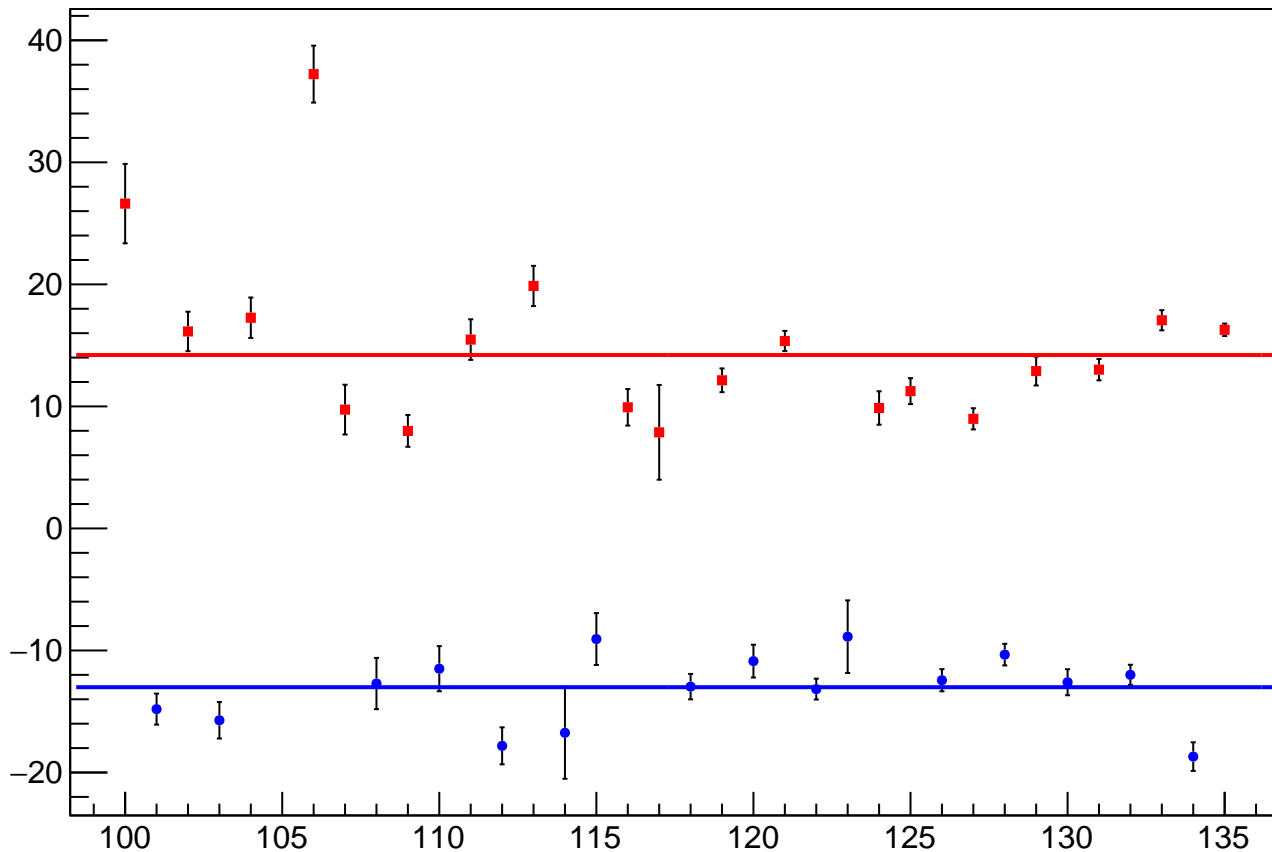
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

977.113+/-0.292  $\chi^2$ /NDF: 258791.7/15

968.997+/-0.195  $\chi^2$ /NDF: 608278.0/34

962.440+/-0.262  $\chi^2$ /NDF: 348087.4/18

# reg\_asym\_sam1\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-13.010 \pm 0.304$   $\chi^2/\text{NDF}: 59.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $14.208 \pm 0.252$   $\chi^2/\text{NDF}: 259.4/18$

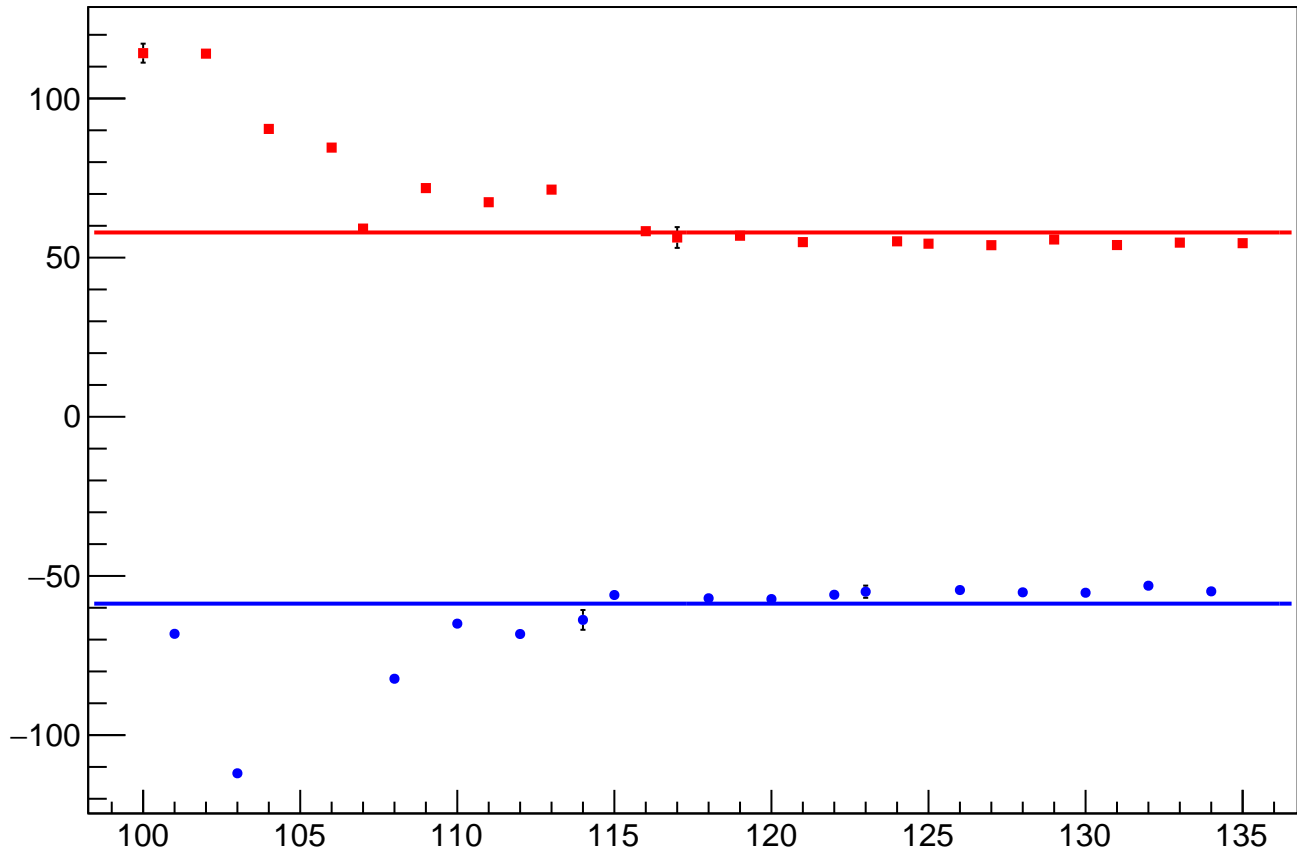
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-13.010 \pm 0.304$   $\chi^2/\text{NDF}: 59.7/15$

$3.084 \pm 0.194$   $\chi^2/\text{NDF}: 5069.7/34$

$14.208 \pm 0.252$   $\chi^2/\text{NDF}: 259.4/18$

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-58.701 \pm 0.170$   $\chi^2/\text{NDF}: 3309.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $57.904 \pm 0.148$   $\chi^2/\text{NDF}: 4679.2/18$

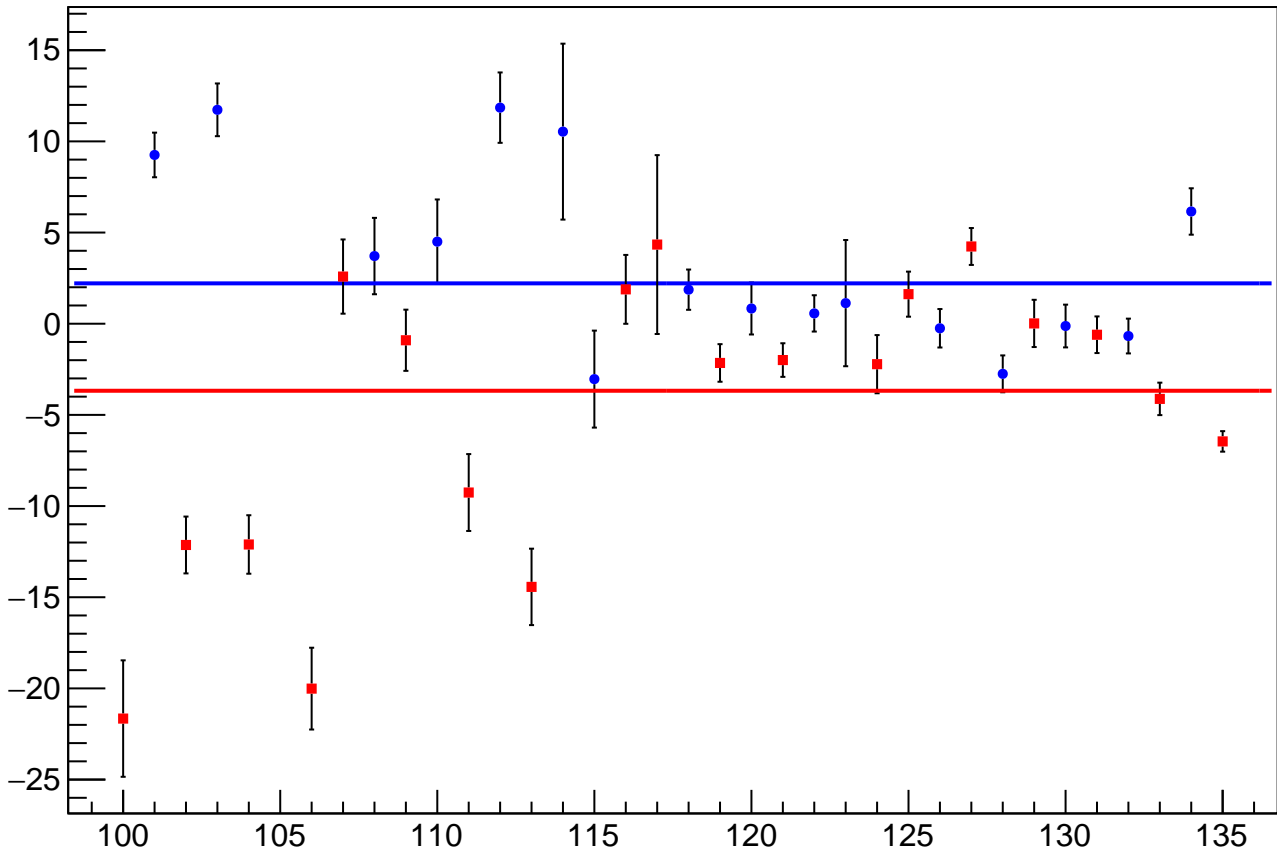
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-58.701 \pm 0.170$   $\chi^2/\text{NDF}: 3309.5/15$

$7.705 \pm 0.112$   $\chi^2/\text{NDF}: 274480.8/34$

$57.904 \pm 0.148$   $\chi^2/\text{NDF}: 4679.2/18$

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 2.213+/-0.338  $\chi^2$ /NDF: 165.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3.677+/-0.281  $\chi^2$ /NDF: 326.7/18

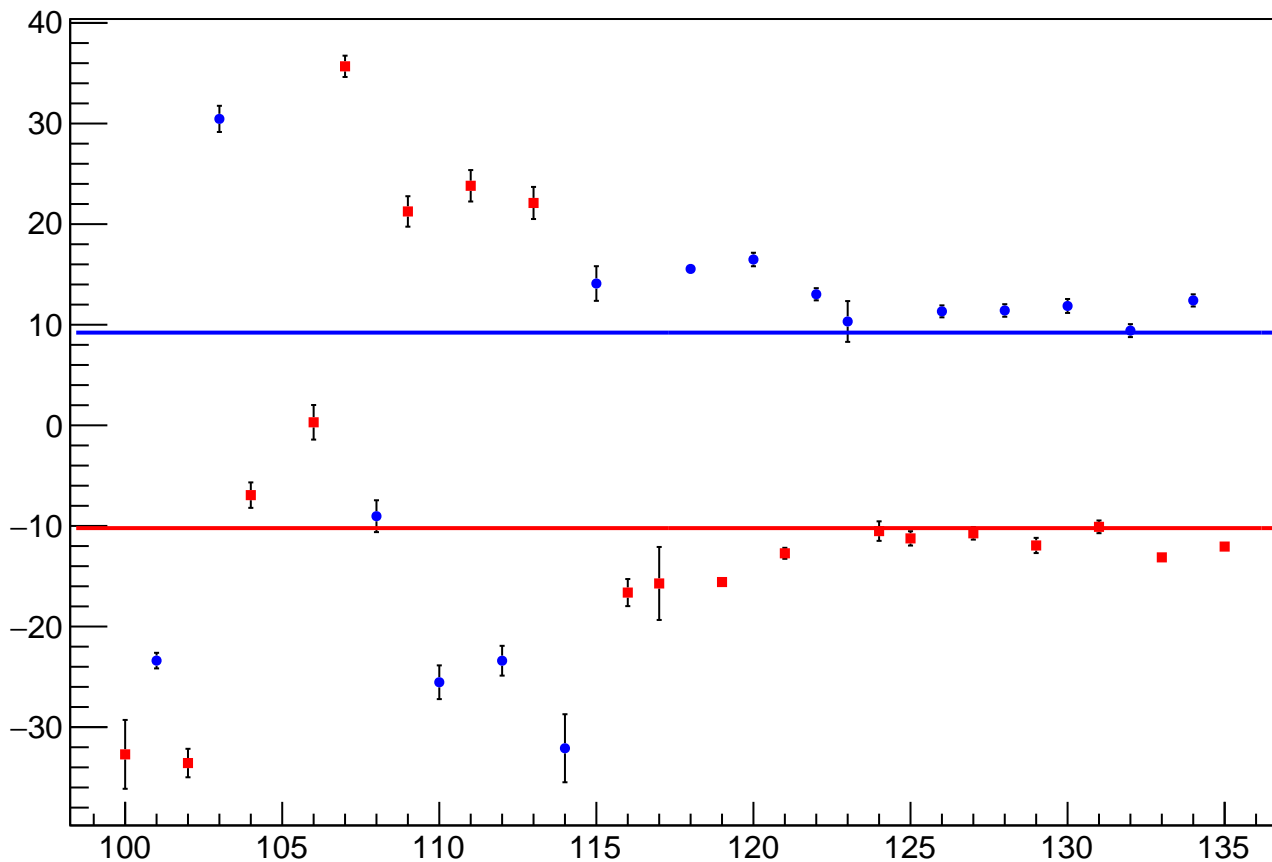
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2.213+/-0.338  $\chi^2$ /NDF: 165.9/15

-1.267+/-0.216  $\chi^2$ /NDF: 671.7/34

-3.677+/-0.281  $\chi^2$ /NDF: 326.7/18

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $9.217 \pm 0.197$   $\chi^2/\text{NDF}: 3621.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-10.217 \pm 0.167$   $\chi^2/\text{NDF}: 3808.6/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

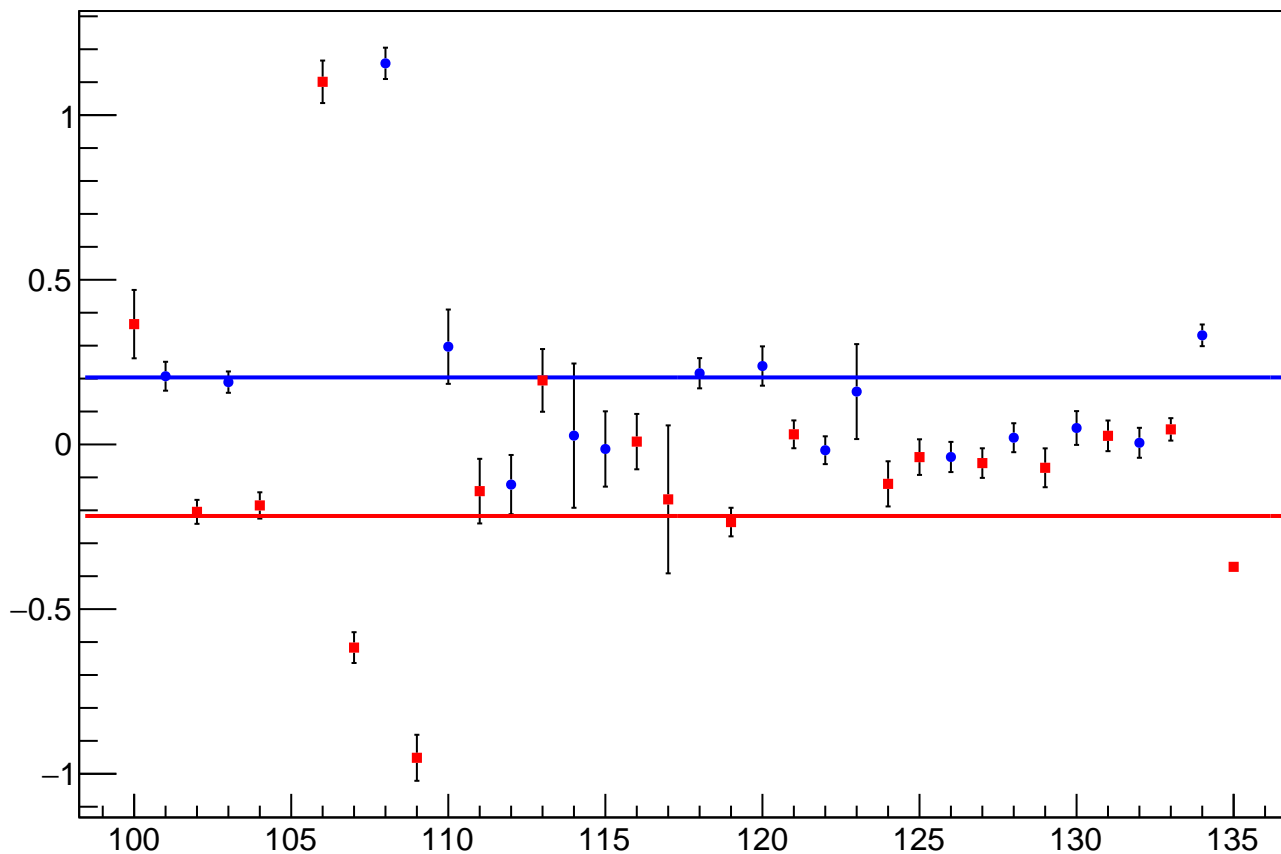
$9.217 \pm 0.197$   $\chi^2/\text{NDF}: 3621.5/15$

$-2.098 \pm 0.128$   $\chi^2/\text{NDF}: 13067.8/34$

$-10.217 \pm 0.167$   $\chi^2/\text{NDF}: 3808.6/18$



# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.204 $\pm$ 0.013  $\chi^2$ /NDF: 536.1/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.217 $\pm$ 0.009  $\chi^2$ /NDF: 940.5/18

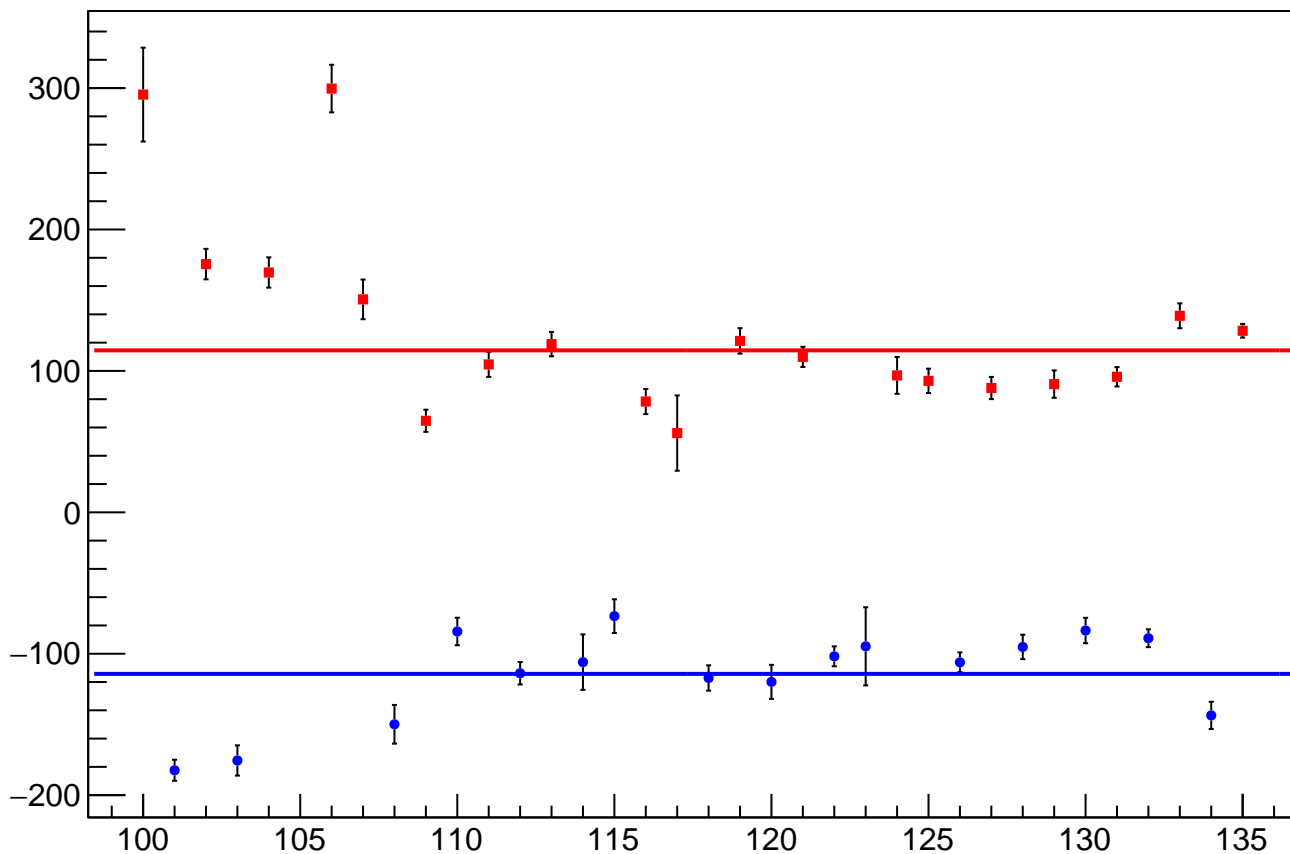
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.204 $\pm$ 0.013  $\chi^2$ /NDF: 536.1/15

-0.070 $\pm$ 0.007  $\chi^2$ /NDF: 2208.9/34

-0.217 $\pm$ 0.009  $\chi^2$ /NDF: 940.5/18

# reg\_asym\_sam2\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-114.244 \pm 2.287$   $\chi^2/\text{NDF}: 192.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $114.533 \pm 2.047$   $\chi^2/\text{NDF}: 329.0/18$

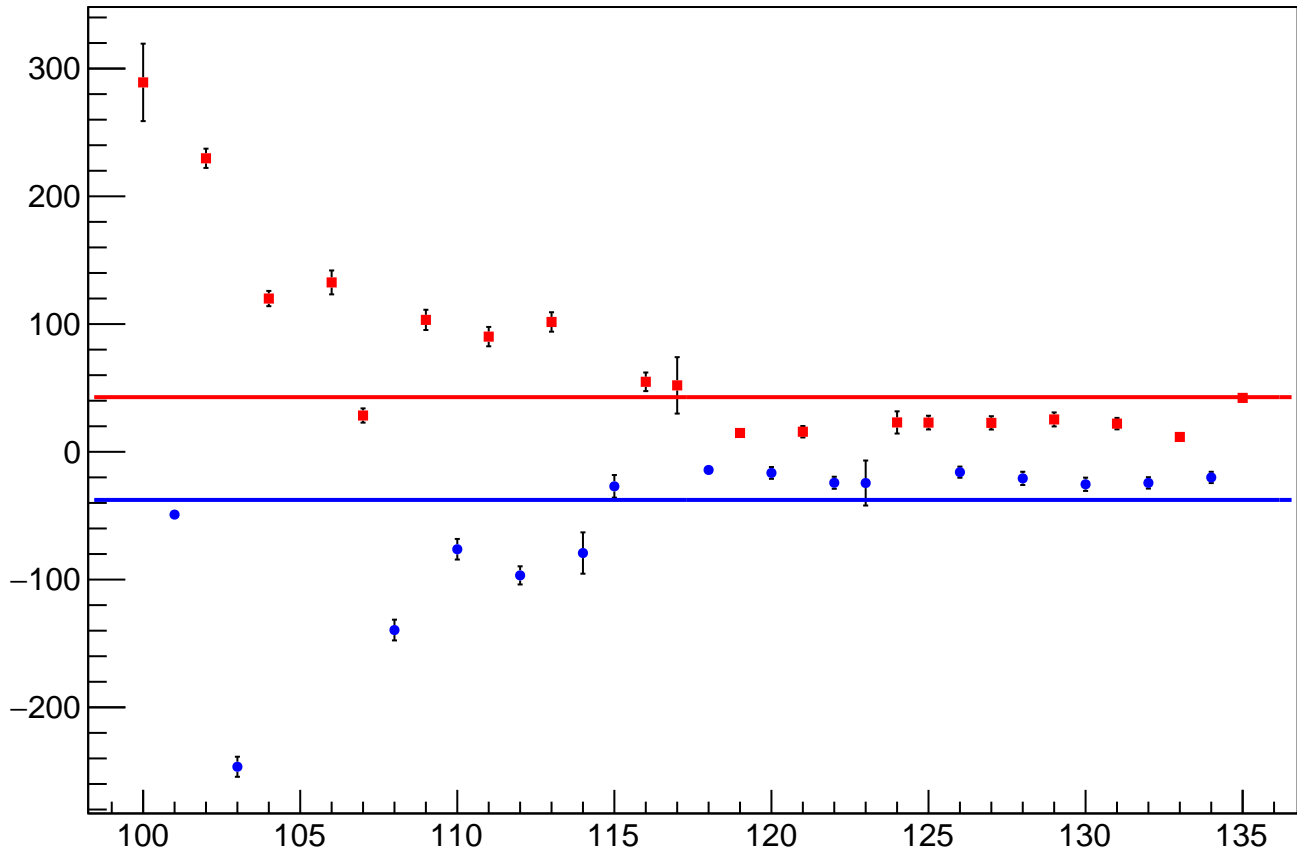
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-114.244 \pm 2.287$   $\chi^2/\text{NDF}: 192.0/15$

$12.782 \pm 1.526$   $\chi^2/\text{NDF}: 6075.0/34$

$114.533 \pm 2.047$   $\chi^2/\text{NDF}: 329.0/18$

# reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-37.647 \pm 1.322$   $\chi^2/\text{NDF}: 1118.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $42.797 \pm 1.252$   $\chi^2/\text{NDF}: 1345.5/18$

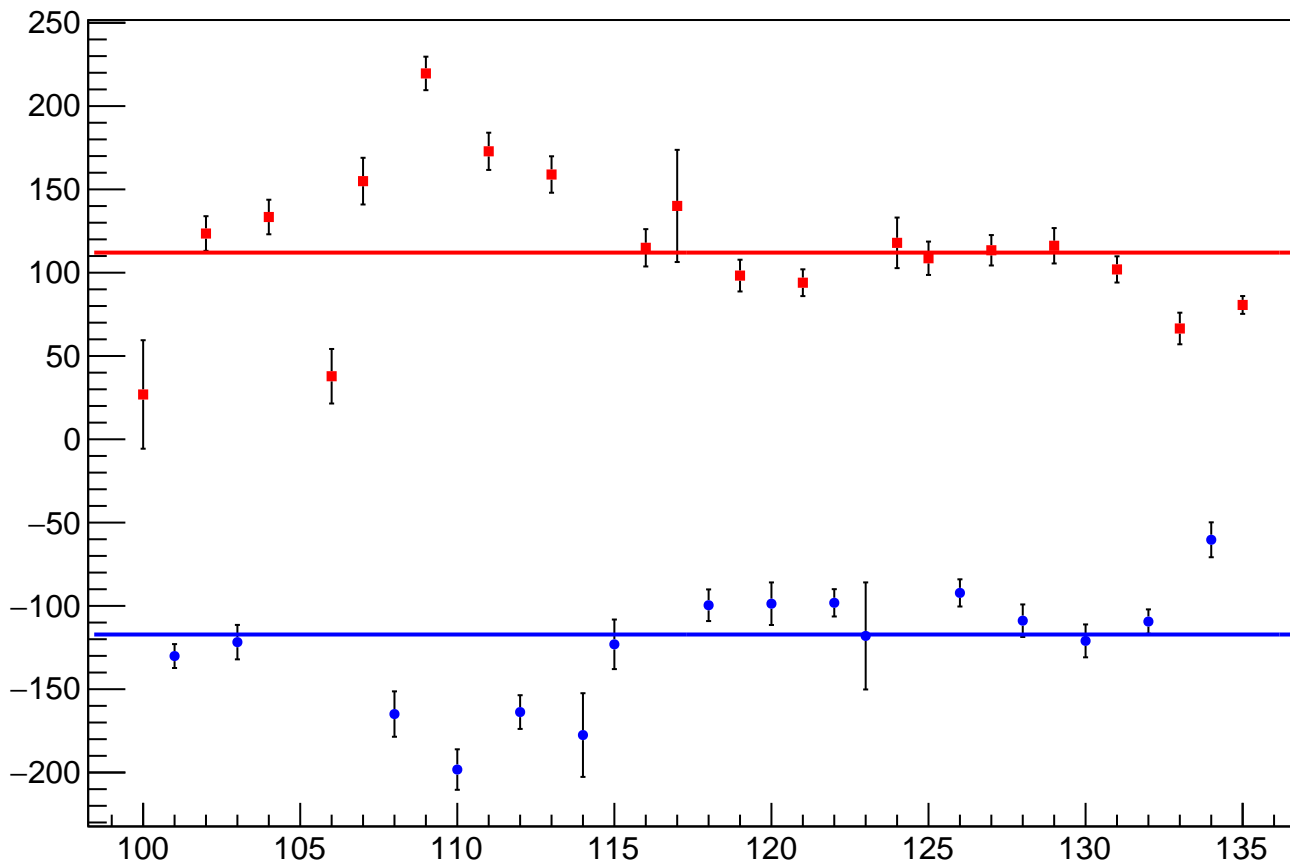
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-37.647 \pm 1.322$   $\chi^2/\text{NDF}: 1118.6/15$

$4.771 \pm 0.909$   $\chi^2/\text{NDF}: 4416.7/34$

$42.797 \pm 1.252$   $\chi^2/\text{NDF}: 1345.5/18$

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-117.174 \pm 2.553$   $\chi^2/\text{NDF}: 139.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $112.055 \pm 2.311$   $\chi^2/\text{NDF}: 272.1/18$

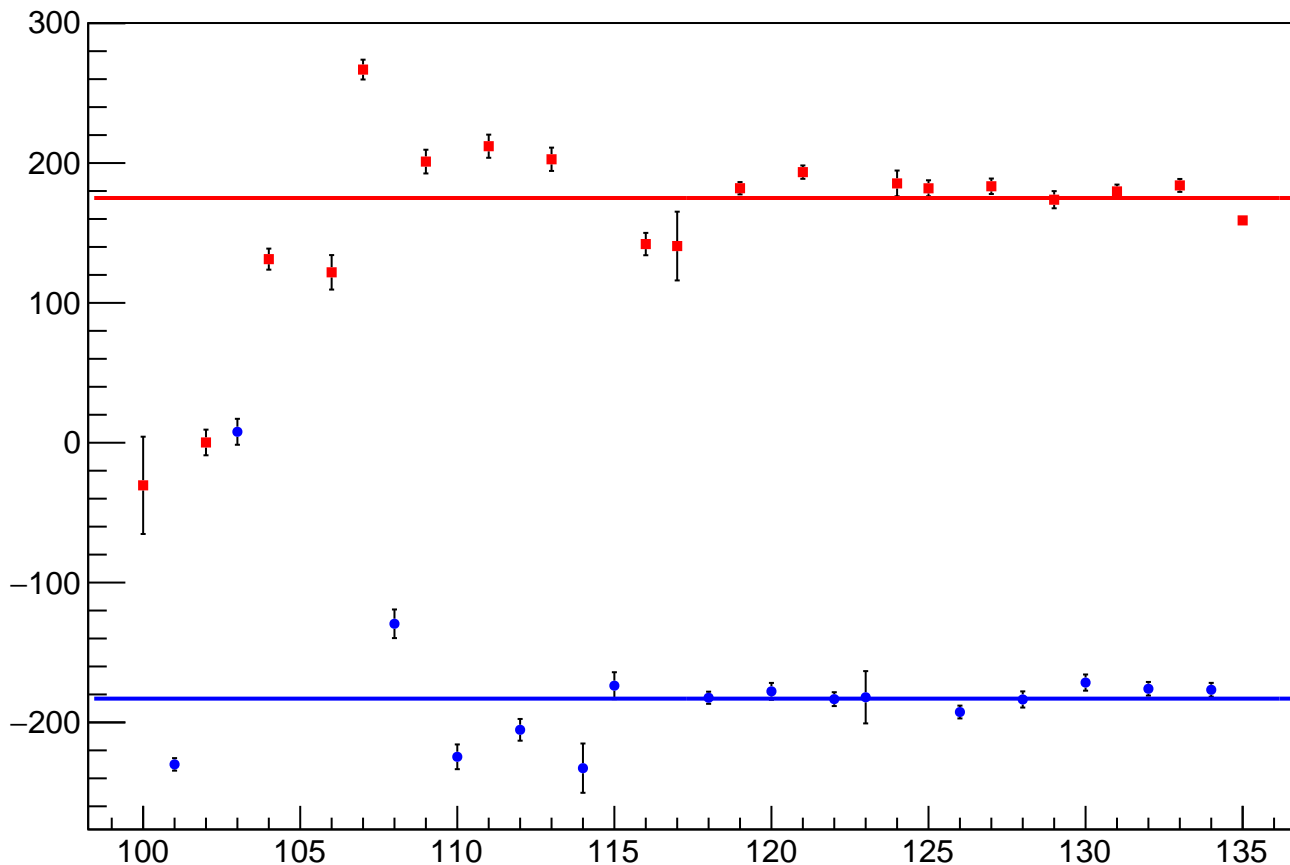
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-117.174 \pm 2.553$   $\chi^2/\text{NDF}: 139.0/15$

$8.818 \pm 1.713$   $\chi^2/\text{NDF}: 4843.9/34$

$112.055 \pm 2.311$   $\chi^2/\text{NDF}: 272.1/18$

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-182.992 \pm 1.527$   $\chi^2/\text{NDF}: 612.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $175.008 \pm 1.415$   $\chi^2/\text{NDF}: 729.9/18$

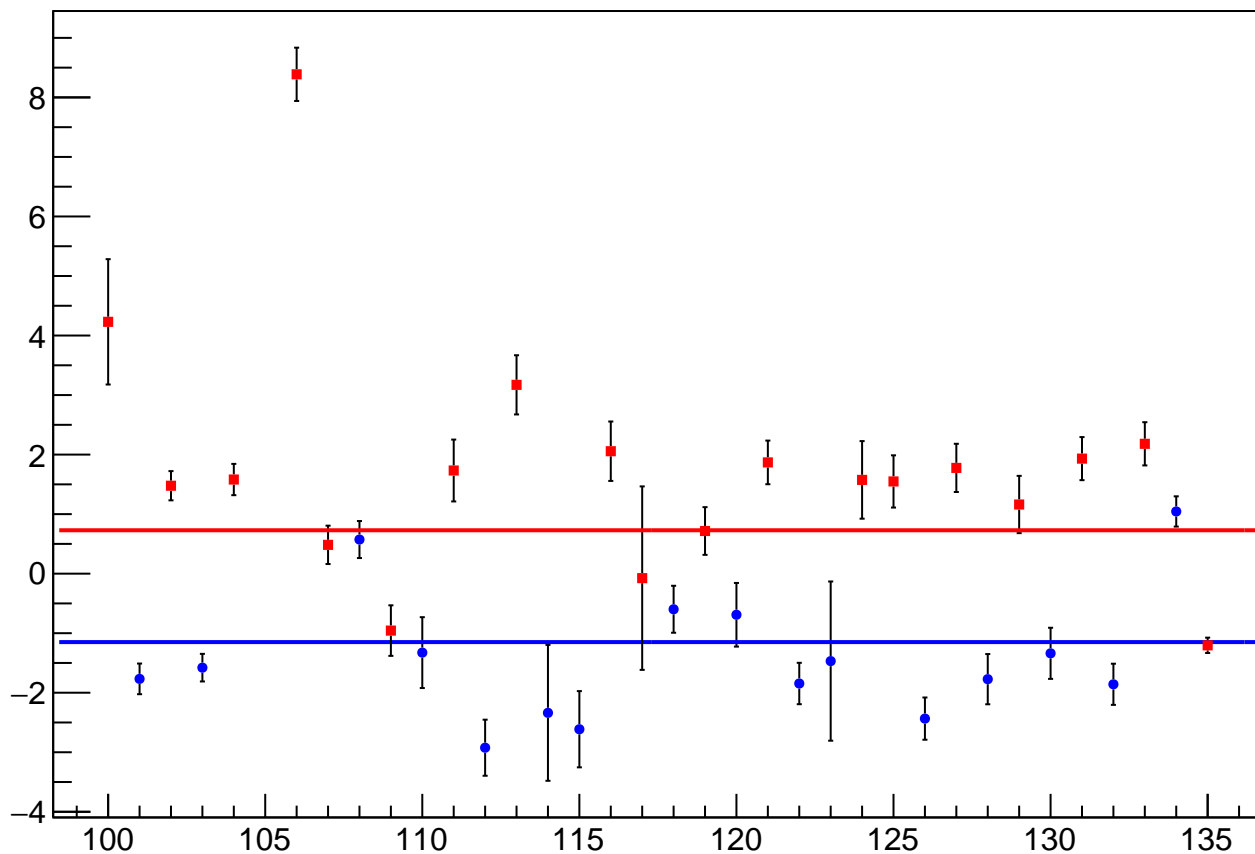
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-182.992 \pm 1.527$   $\chi^2/\text{NDF}: 612.5/15$

$9.631 \pm 1.038$   $\chi^2/\text{NDF}: 30931.2/34$

$175.008 \pm 1.415$   $\chi^2/\text{NDF}: 729.9/18$

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-1.150 \pm 0.093$   $\chi^2/\text{NDF}: 161.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.729 \pm 0.076$   $\chi^2/\text{NDF}: 649.2/18$

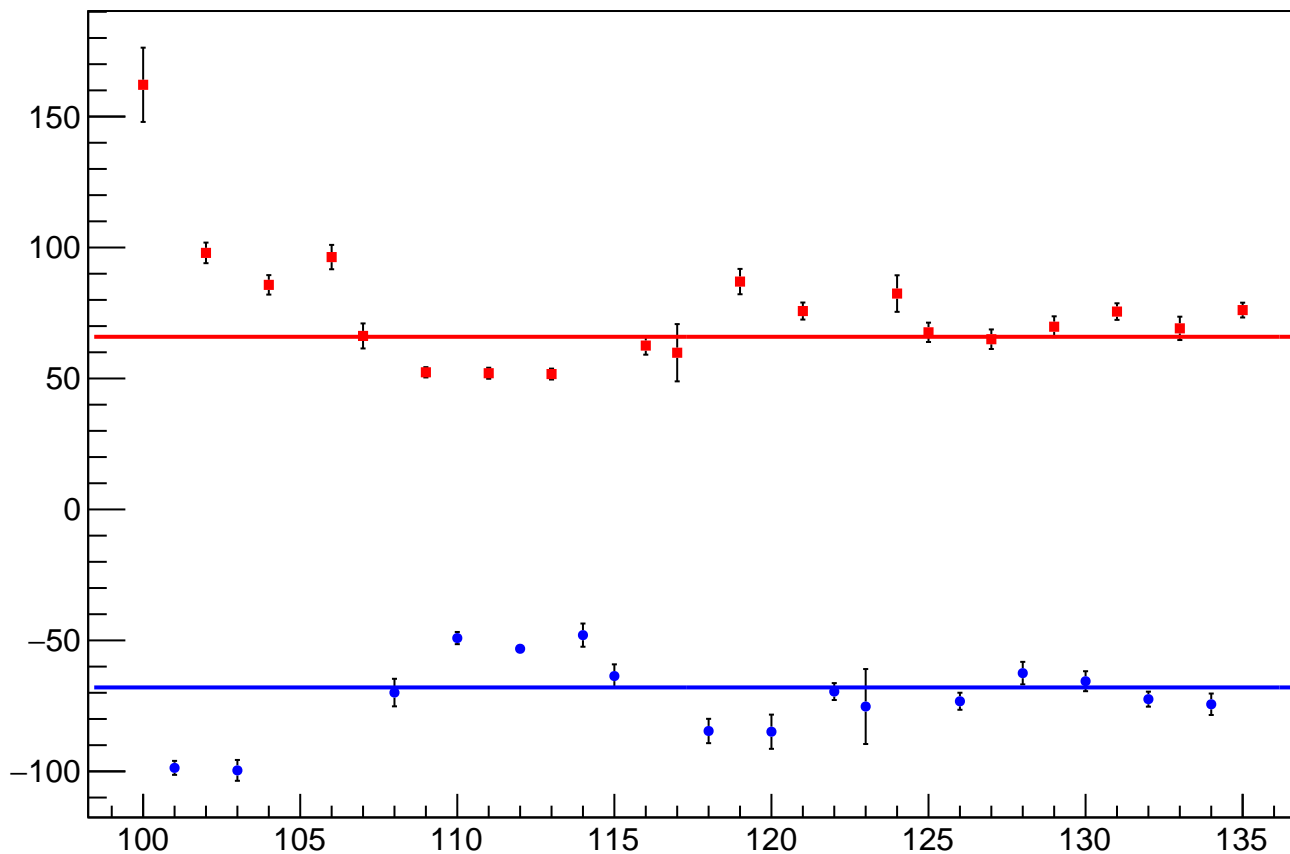
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1.150 \pm 0.093$   $\chi^2/\text{NDF}: 161.4/15$

$-0.030 \pm 0.059$   $\chi^2/\text{NDF}: 1054.9/34$

$0.729 \pm 0.076$   $\chi^2/\text{NDF}: 649.2/18$

# reg\_asym\_sam3\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-67.955 \pm 0.856$   $\chi^2/\text{NDF}: 371.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $65.919 \pm 0.771$   $\chi^2/\text{NDF}: 380.9/18$

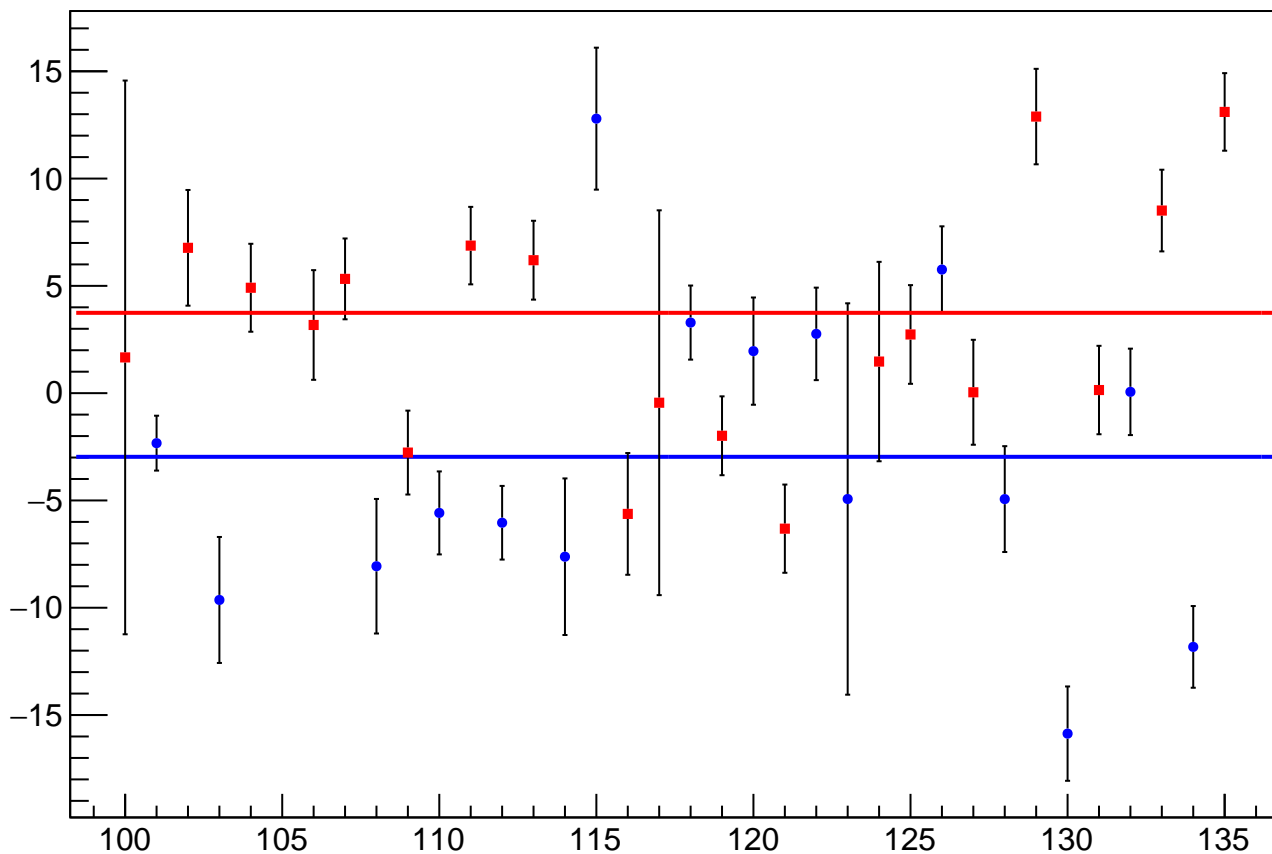
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-67.955 \pm 0.856$   $\chi^2/\text{NDF}: 371.4/15$

$5.909 \pm 0.573$   $\chi^2/\text{NDF}: 14256.3/34$

$65.919 \pm 0.771$   $\chi^2/\text{NDF}: 380.9/18$

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.967 \pm 0.537$   $\chi^2/\text{NDF}: 139.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $3.743 \pm 0.515$   $\chi^2/\text{NDF}: 118.8/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

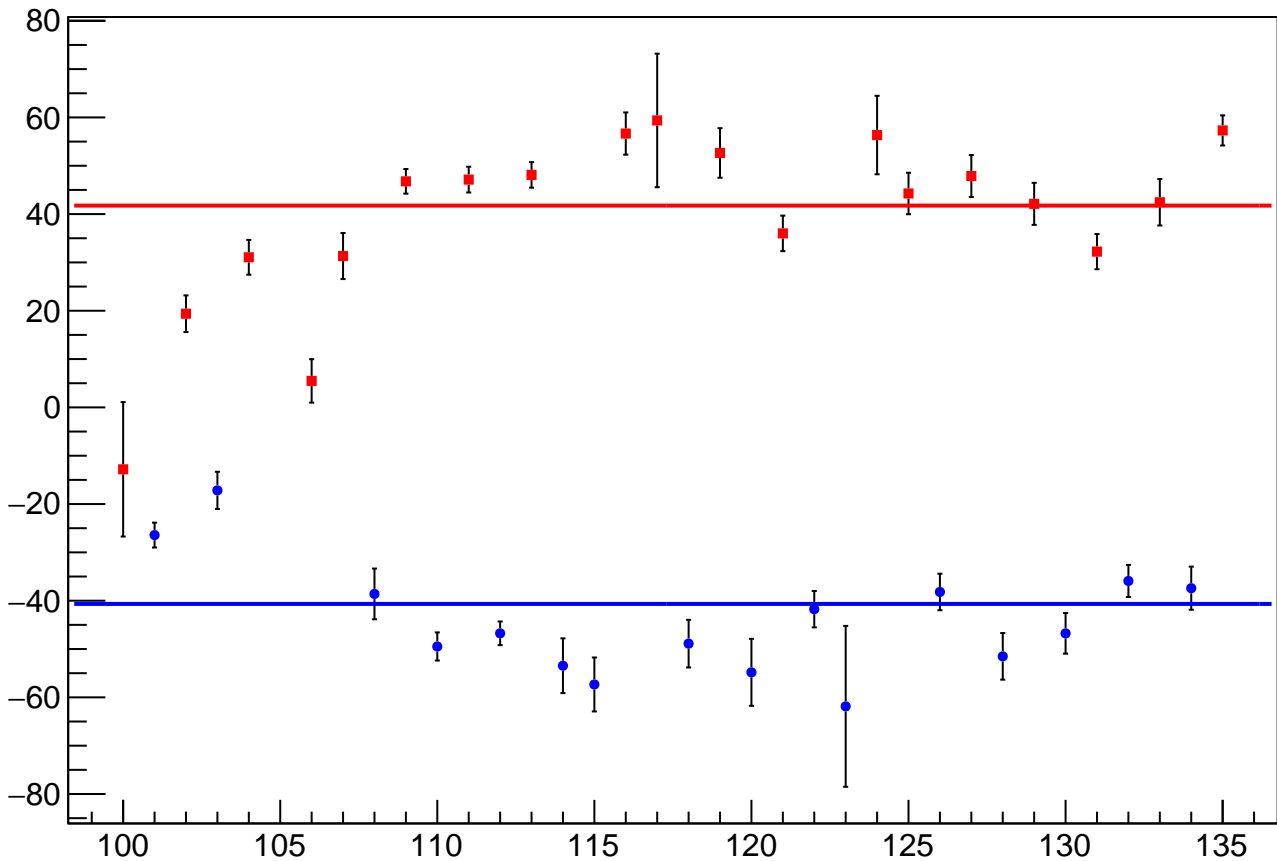
$-2.967 \pm 0.537$   $\chi^2/\text{NDF}: 139.3/15$

$0.531 \pm 0.372$   $\chi^2/\text{NDF}: 339.4/34$

$3.743 \pm 0.515$   $\chi^2/\text{NDF}: 118.8/18$



# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-40.666 \pm 0.975$   $\chi^2/\text{NDF}: 116.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $41.756 \pm 0.894$   $\chi^2/\text{NDF}: 200.1/18$

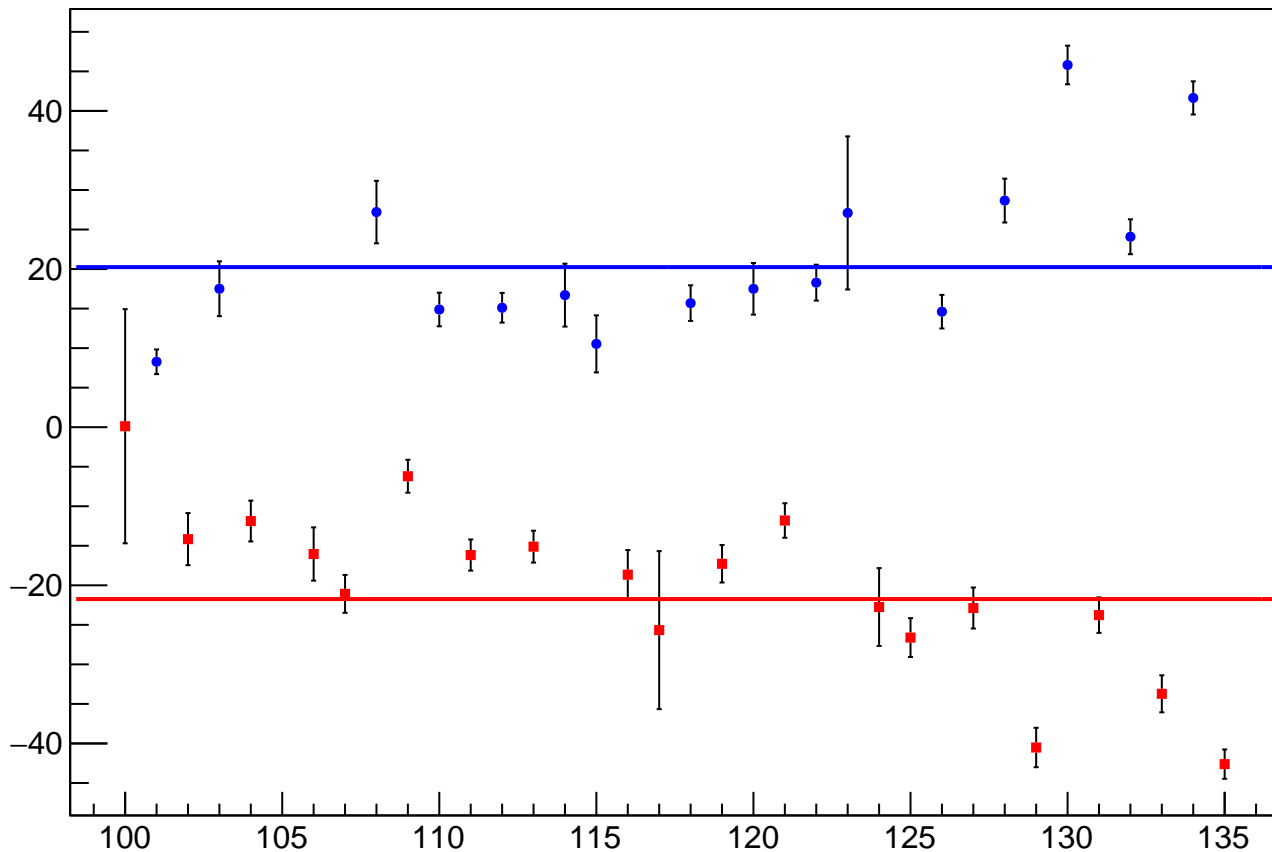
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-40.666 \pm 0.975$   $\chi^2/\text{NDF}: 116.4/15$

$4.108 \pm 0.659$   $\chi^2/\text{NDF}: 4195.5/34$

$41.756 \pm 0.894$   $\chi^2/\text{NDF}: 200.1/18$

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 20.246 $\pm$ 0.614  $\chi^2$ /NDF: 323.2/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -21.739 $\pm$ 0.584  $\chi^2$ /NDF: 339.2/18

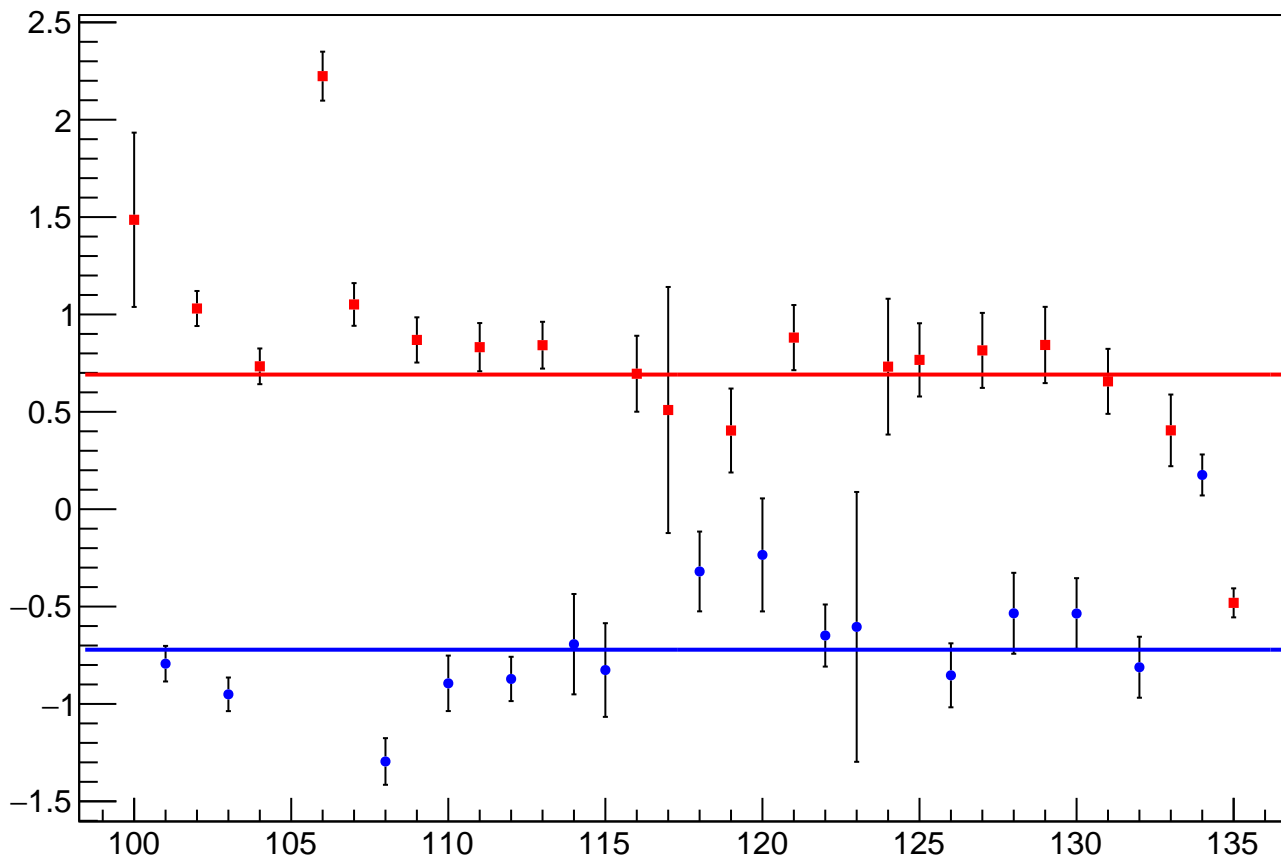
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

20.246 $\pm$ 0.614  $\chi^2$ /NDF: 323.2/15

-1.805 $\pm$ 0.423  $\chi^2$ /NDF: 3115.5/34

-21.739 $\pm$ 0.584  $\chi^2$ /NDF: 339.2/18

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.721 \pm 0.036$   $\chi^2/\text{NDF}: 116.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.691 \pm 0.031$   $\chi^2/\text{NDF}: 436.3/18$

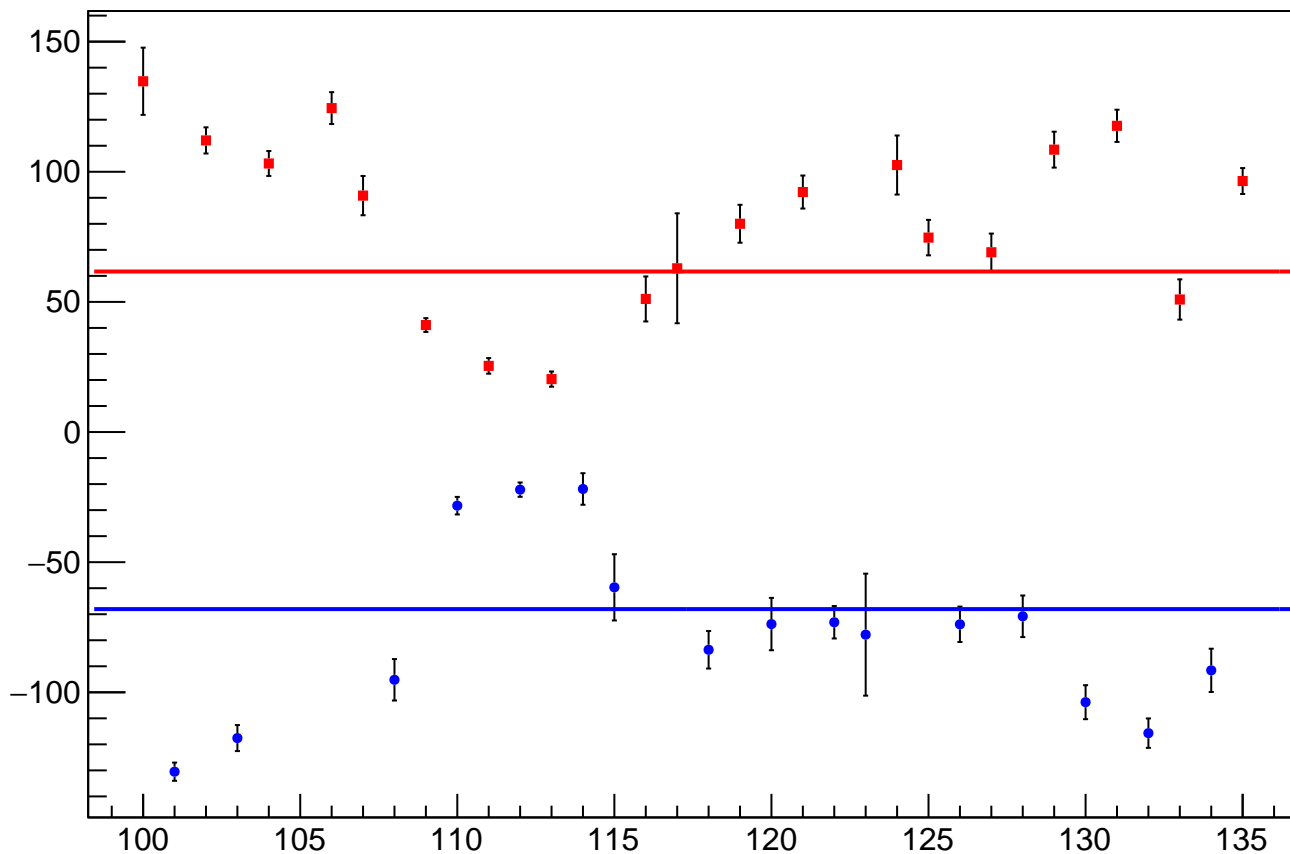
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.721 \pm 0.036$   $\chi^2/\text{NDF}: 116.5/15$

$0.080 \pm 0.024$   $\chi^2/\text{NDF}: 1437.4/34$

$0.691 \pm 0.031$   $\chi^2/\text{NDF}: 436.3/18$

# reg\_asym\_sam4\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-68.032 \pm 1.343$   $\chi^2/\text{NDF}: 1020.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $61.676 \pm 1.181$   $\chi^2/\text{NDF}: 961.4/18$

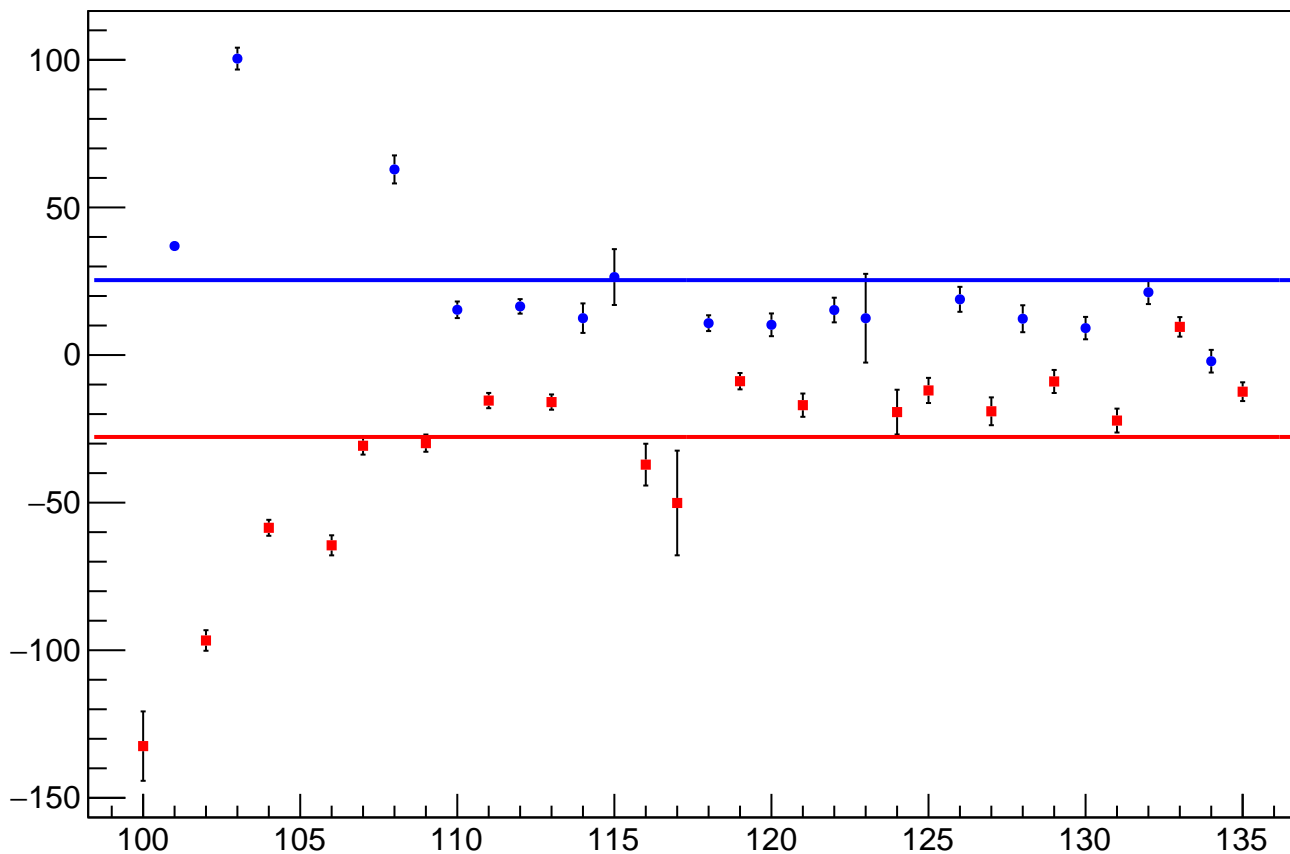
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-68.032 \pm 1.343$   $\chi^2/\text{NDF}: 1020.3/15$

$5.116 \pm 0.887$   $\chi^2/\text{NDF}: 7239.1/34$

$61.676 \pm 1.181$   $\chi^2/\text{NDF}: 961.4/18$

# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $25.377 \pm 0.850$   $\chi^2/\text{NDF}: 684.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-27.751 \pm 0.818$   $\chi^2/\text{NDF}: 1013.3/18$

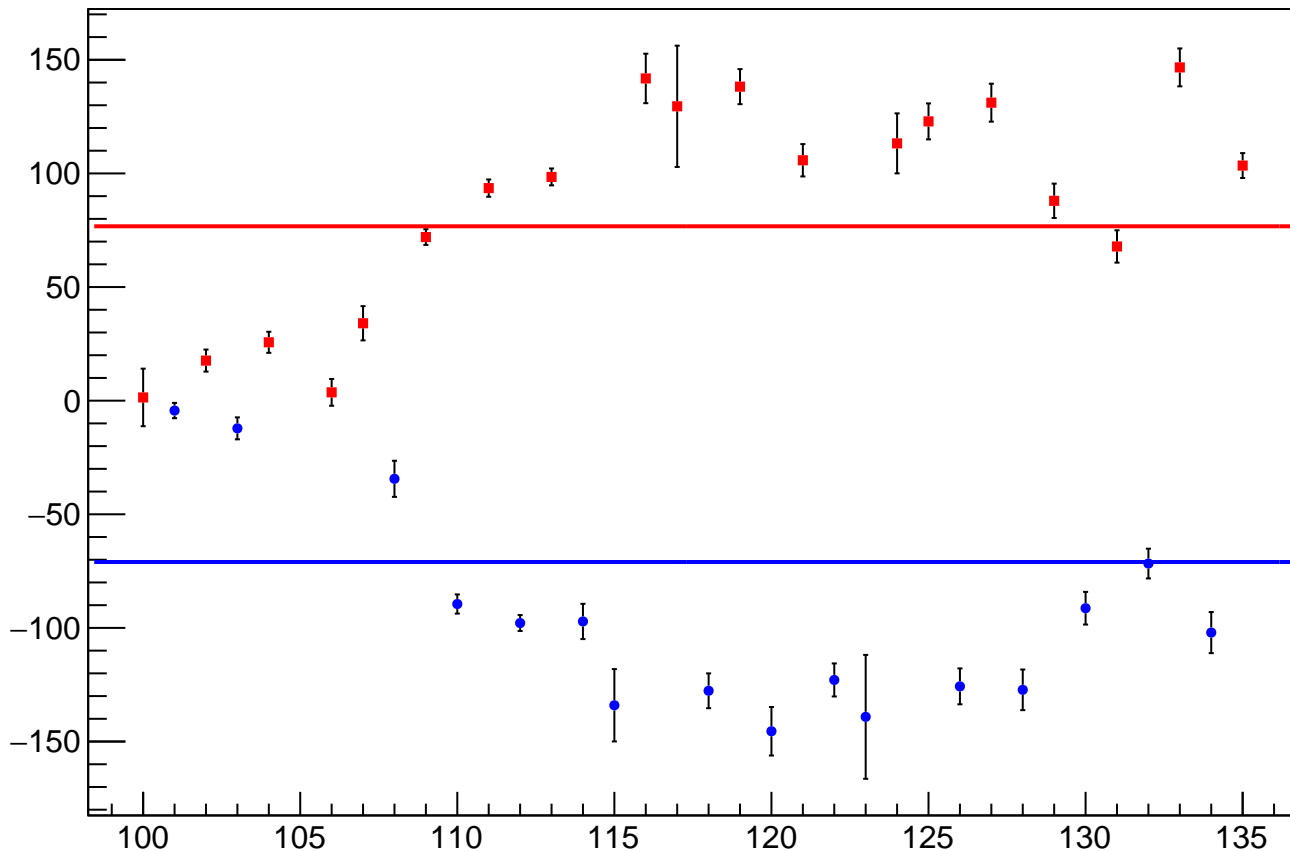
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$25.377 \pm 0.850$   $\chi^2/\text{NDF}: 684.9/15$

$-2.208 \pm 0.590$   $\chi^2/\text{NDF}: 3724.6/34$

$-27.751 \pm 0.818$   $\chi^2/\text{NDF}: 1013.3/18$

reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-70.999 \pm 1.517$   $\chi^2/\text{NDF}: 933.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $76.736 \pm 1.368$   $\chi^2/\text{NDF}: 847.6/18$

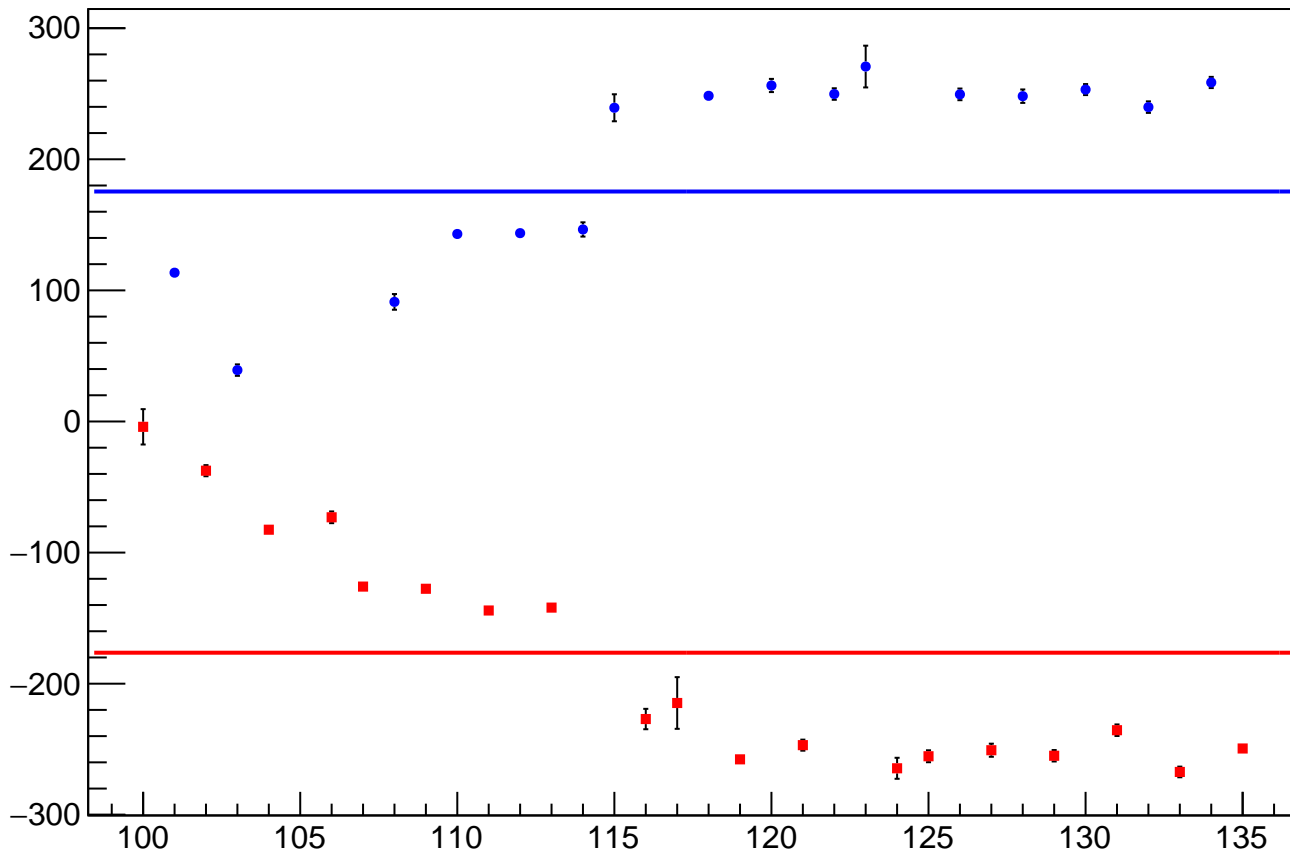
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-70.999 \pm 1.517$   $\chi^2/\text{NDF}: 933.8/15$

$10.478 \pm 1.016$   $\chi^2/\text{NDF}: 7010.5/34$

$76.736 \pm 1.368$   $\chi^2/\text{NDF}: 847.6/18$

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 175.419+/-0.985  $\chi^2$ /NDF: 4816.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -176.370+/-0.936  $\chi^2$ /NDF: 6230.1/18

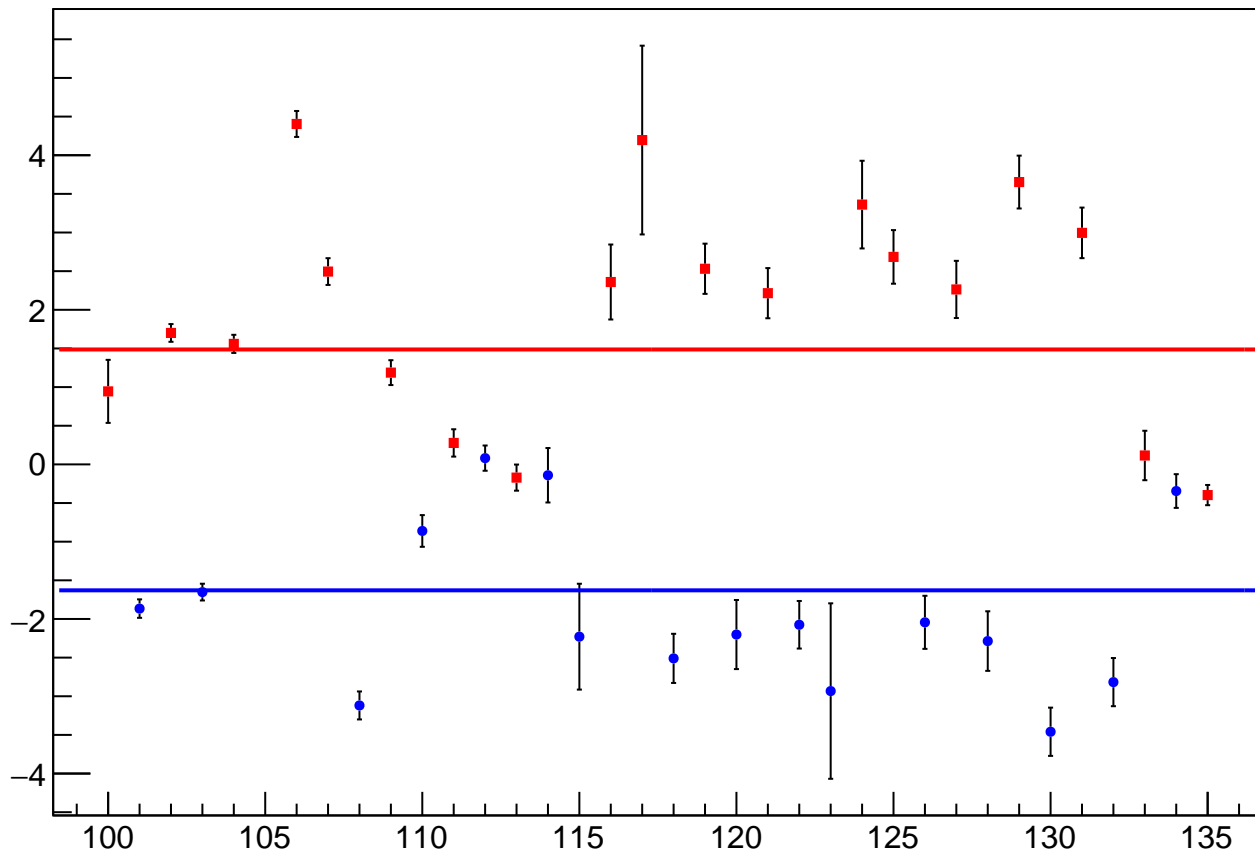
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

175.419+/-0.985  $\chi^2$ /NDF: 4816.3/15

-9.362+/-0.679  $\chi^2$ /NDF: 78064.1/34

-176.370+/-0.936  $\chi^2$ /NDF: 6230.1/18

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-1.630 \pm 0.054$   $\chi^2/\text{NDF}: 314.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1.487 \pm 0.047$   $\chi^2/\text{NDF}: 825.5/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

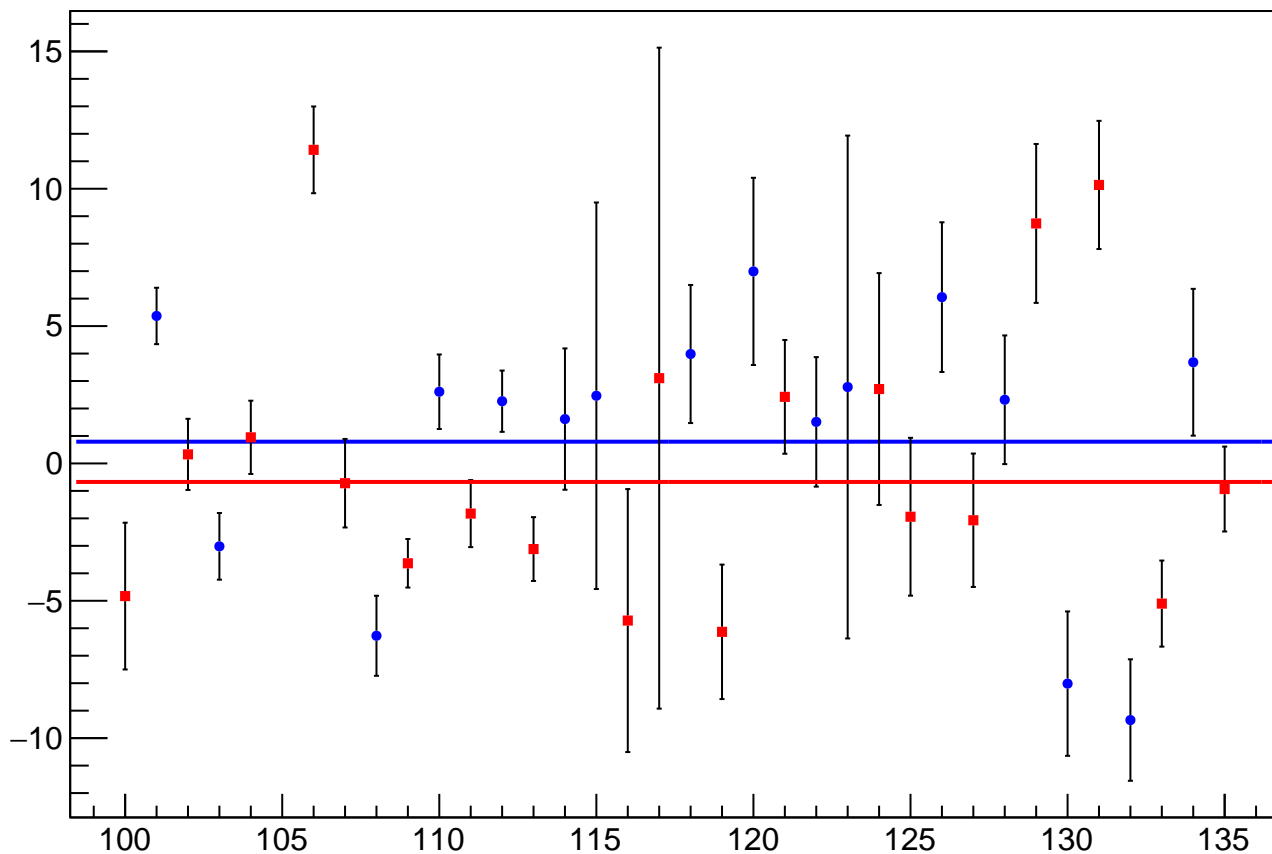
$-1.630 \pm 0.054$   $\chi^2/\text{NDF}: 314.6/15$

$0.159 \pm 0.035$   $\chi^2/\text{NDF}: 3035.0/34$

$1.487 \pm 0.047$   $\chi^2/\text{NDF}: 825.5/18$



# reg\_asym\_sam5\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 0.792+/-0.454  $\chi^2$ /NDF: 99.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.674+/-0.386  $\chi^2$ /NDF: 129.3/18

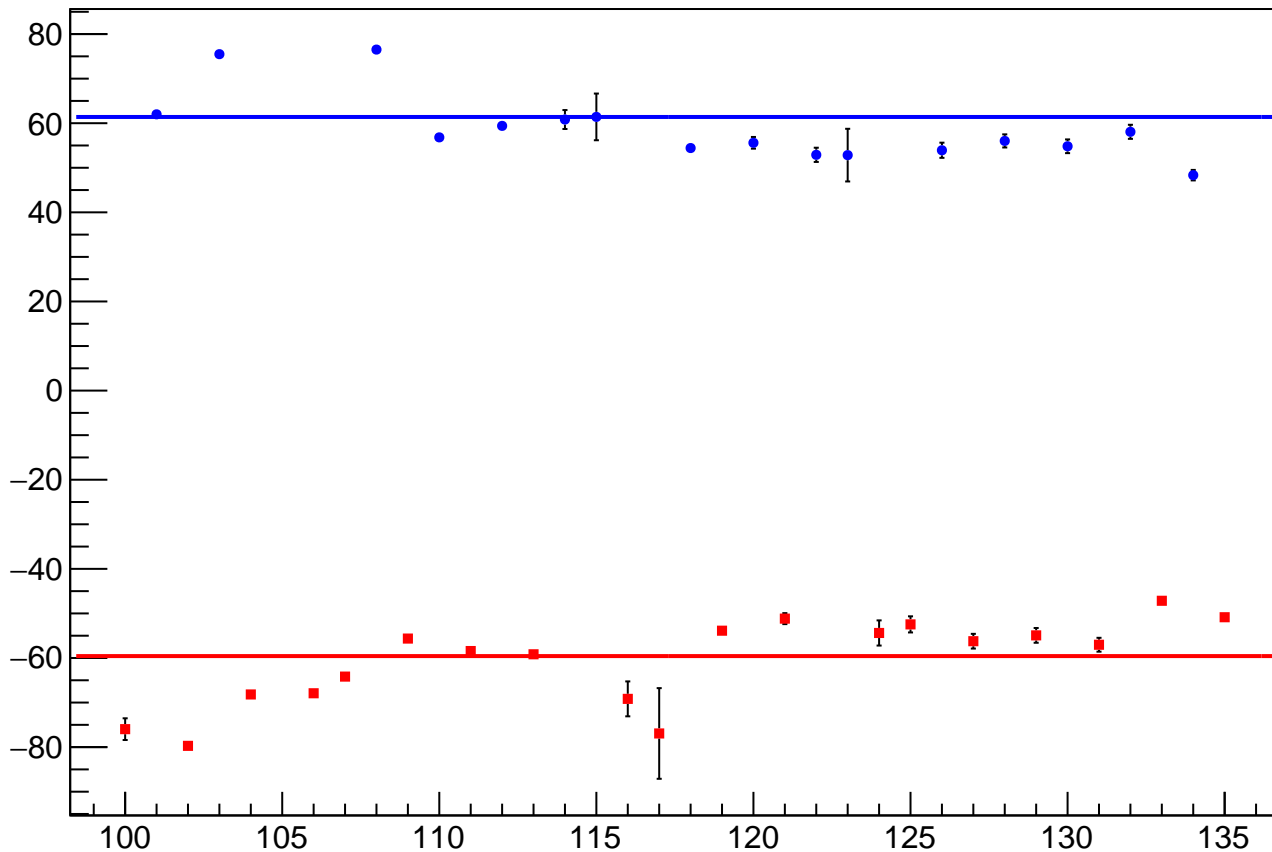
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.792+/-0.454  $\chi^2$ /NDF: 99.5/15

-0.058+/-0.294  $\chi^2$ /NDF: 234.9/34

-0.674+/-0.386  $\chi^2$ /NDF: 129.3/18

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $61.399 \pm 0.277$   $\chi^2/\text{NDF}: 845.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-59.573 \pm 0.250$   $\chi^2/\text{NDF}: 1313.3/18$

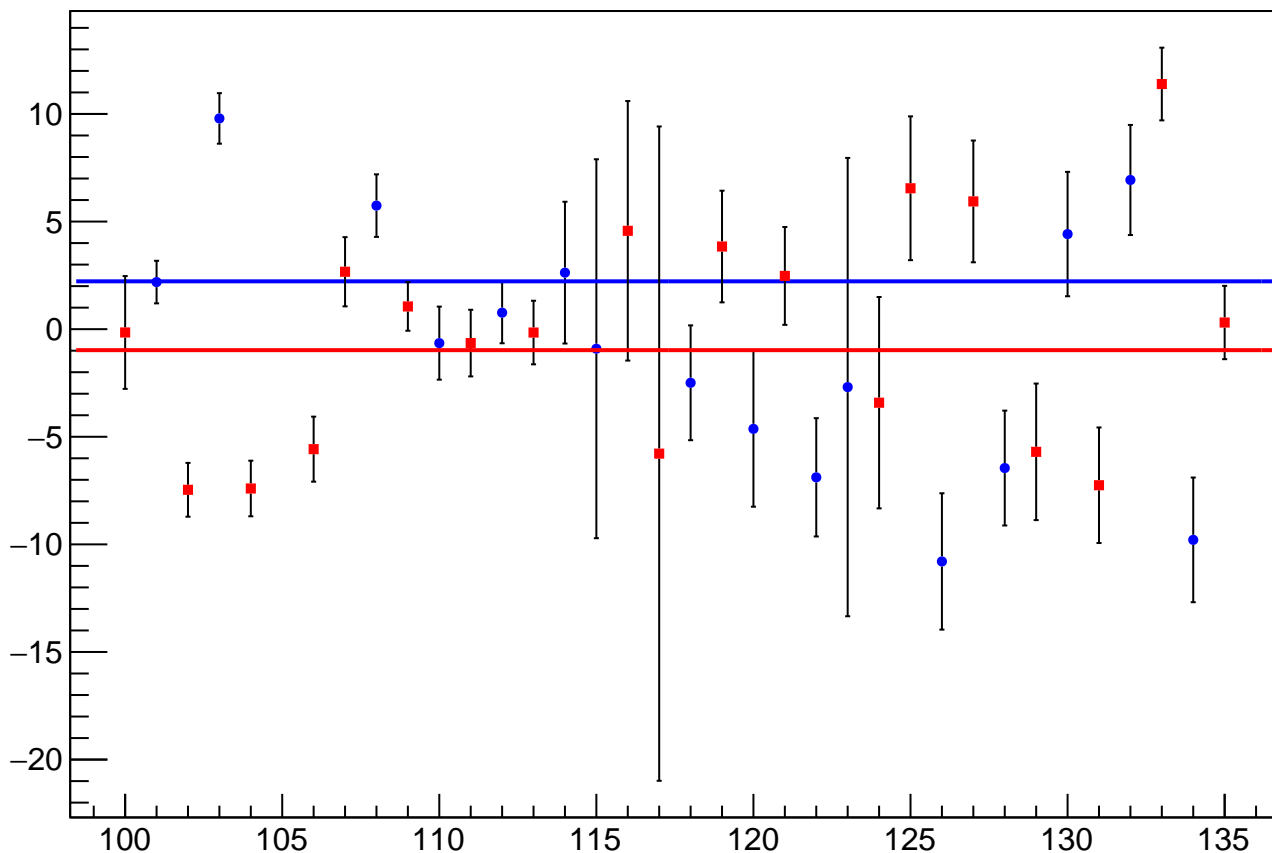
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$61.399 \pm 0.277$   $\chi^2/\text{NDF}: 845.3/15$

$-5.241 \pm 0.186$   $\chi^2/\text{NDF}: 107215.0/34$

$-59.573 \pm 0.250$   $\chi^2/\text{NDF}: 1313.3/18$

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 2.223+/-0.490  $\chi^2/\text{NDF}$ : 118.0/15

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

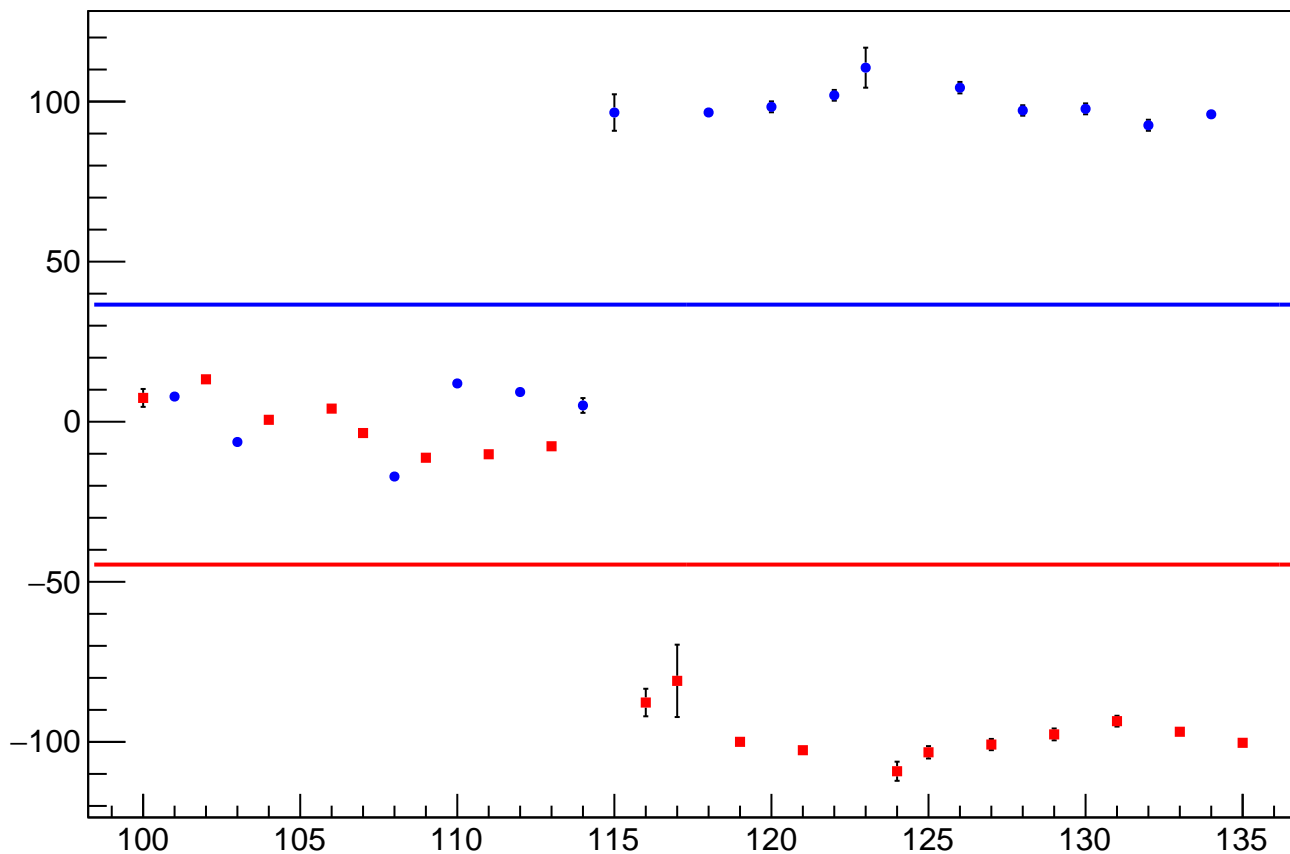
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.223+/-0.490  $\chi^2/\text{NDF}$ : 118.0/15

0.411+/-0.323  $\chi^2/\text{NDF}$ : 291.7/34

-0.975+/-0.429  $\chi^2/\text{NDF}$ : 149.6/18

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $36.575 \pm 0.327$   $\chi^2/\text{NDF}: 19887.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-44.617 \pm 0.293$   $\chi^2/\text{NDF}: 27319.8/18$

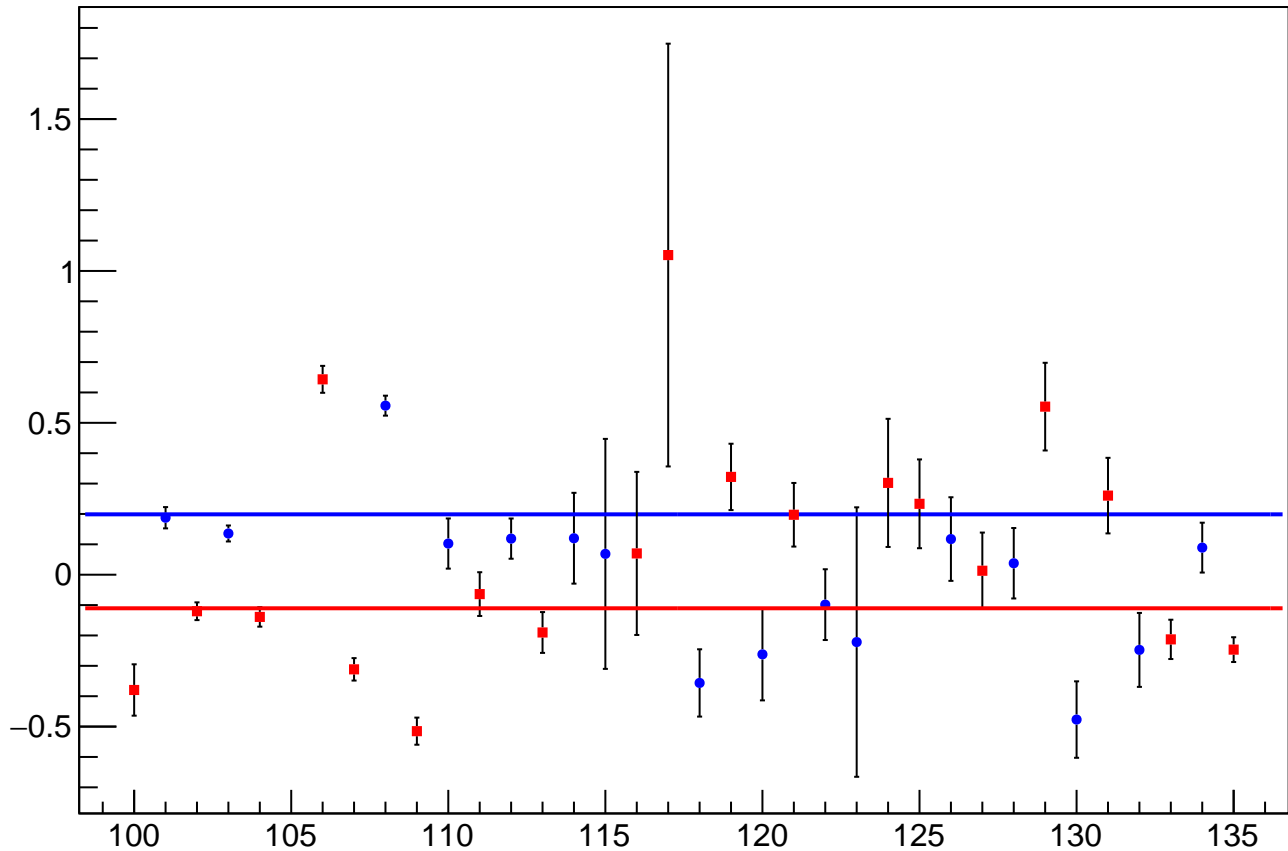
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$36.575 \pm 0.327$   $\chi^2/\text{NDF}: 19887.8/15$

$-8.413 \pm 0.218$   $\chi^2/\text{NDF}: 81412.7/34$

$-44.617 \pm 0.293$   $\chi^2/\text{NDF}: 27319.8/18$

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.199+/-0.015  $\chi^2$ /NDF: 215.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.111+/-0.013  $\chi^2$ /NDF: 495.2/18

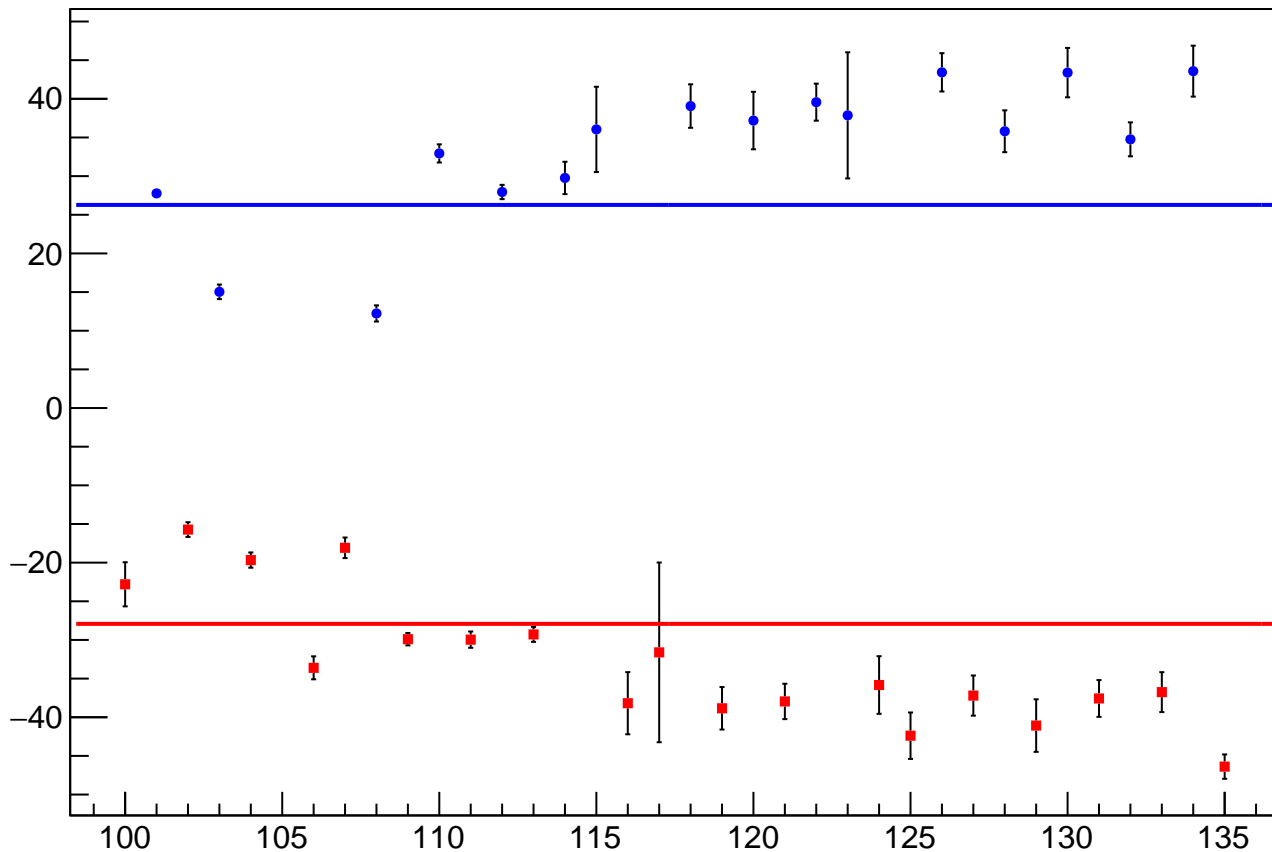
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.199+/-0.015  $\chi^2$ /NDF: 215.7/15

0.021+/-0.010  $\chi^2$ /NDF: 943.1/34

-0.111+/-0.013  $\chi^2$ /NDF: 495.2/18

# reg\_asym\_sam6\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 26.276 $\pm$ 0.361  $\chi^2$ /NDF: 562.4/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -27.919 $\pm$ 0.346  $\chi^2$ /NDF: 581.1/18

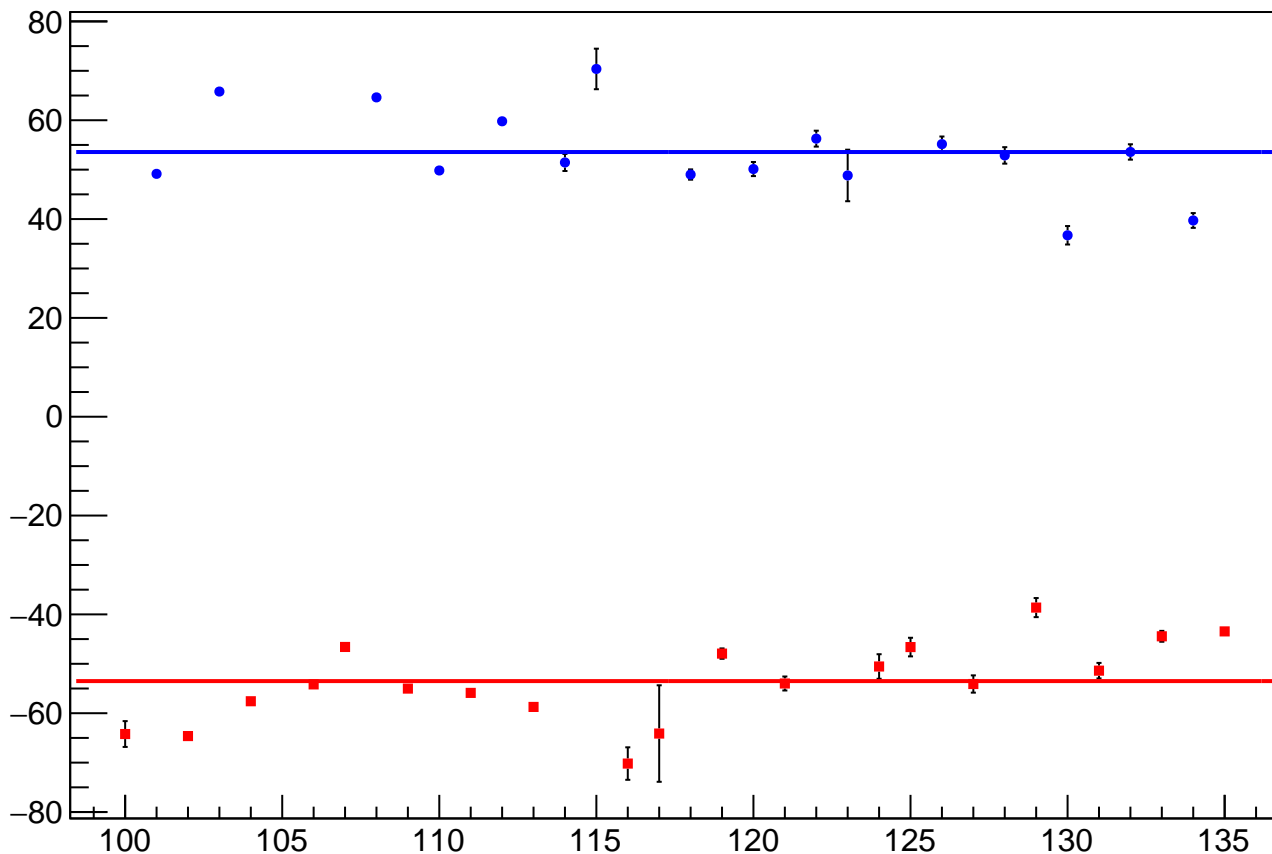
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

26.276 $\pm$ 0.361  $\chi^2$ /NDF: 562.4/15

-1.938 $\pm$ 0.250  $\chi^2$ /NDF: 12883.7/34

-27.919 $\pm$ 0.346  $\chi^2$ /NDF: 581.1/18

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 53.566+/-0.218  $\chi^2$ /NDF: 1093.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -53.500+/-0.229  $\chi^2$ /NDF: 843.7/18

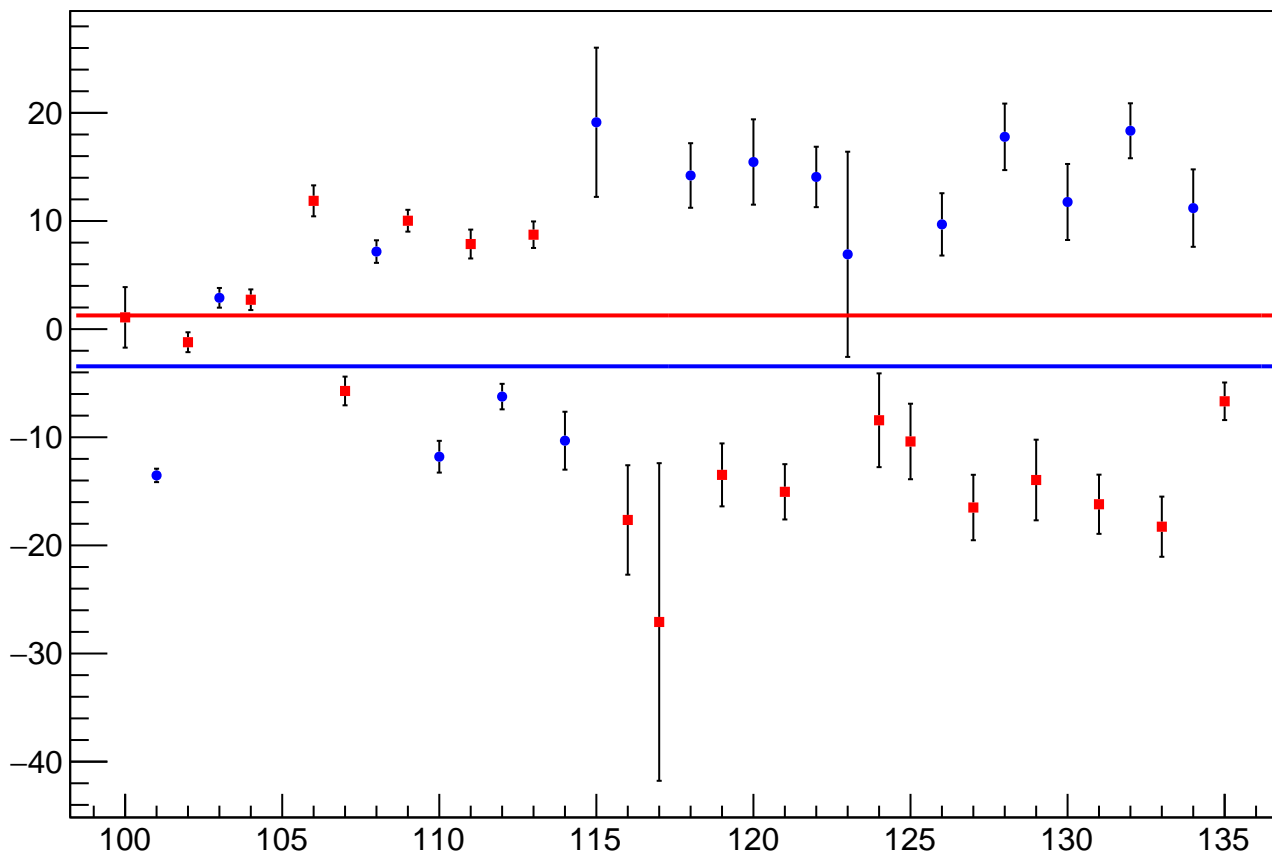
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

53.566+/-0.218  $\chi^2$ /NDF: 1093.1/15

2.549+/-0.158  $\chi^2$ /NDF: 116567.7/34

-53.500+/-0.229  $\chi^2$ /NDF: 843.7/18

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -3.439+/-0.380  $\chi^2$ /NDF: 746.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.266+/-0.381  $\chi^2$ /NDF: 491.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

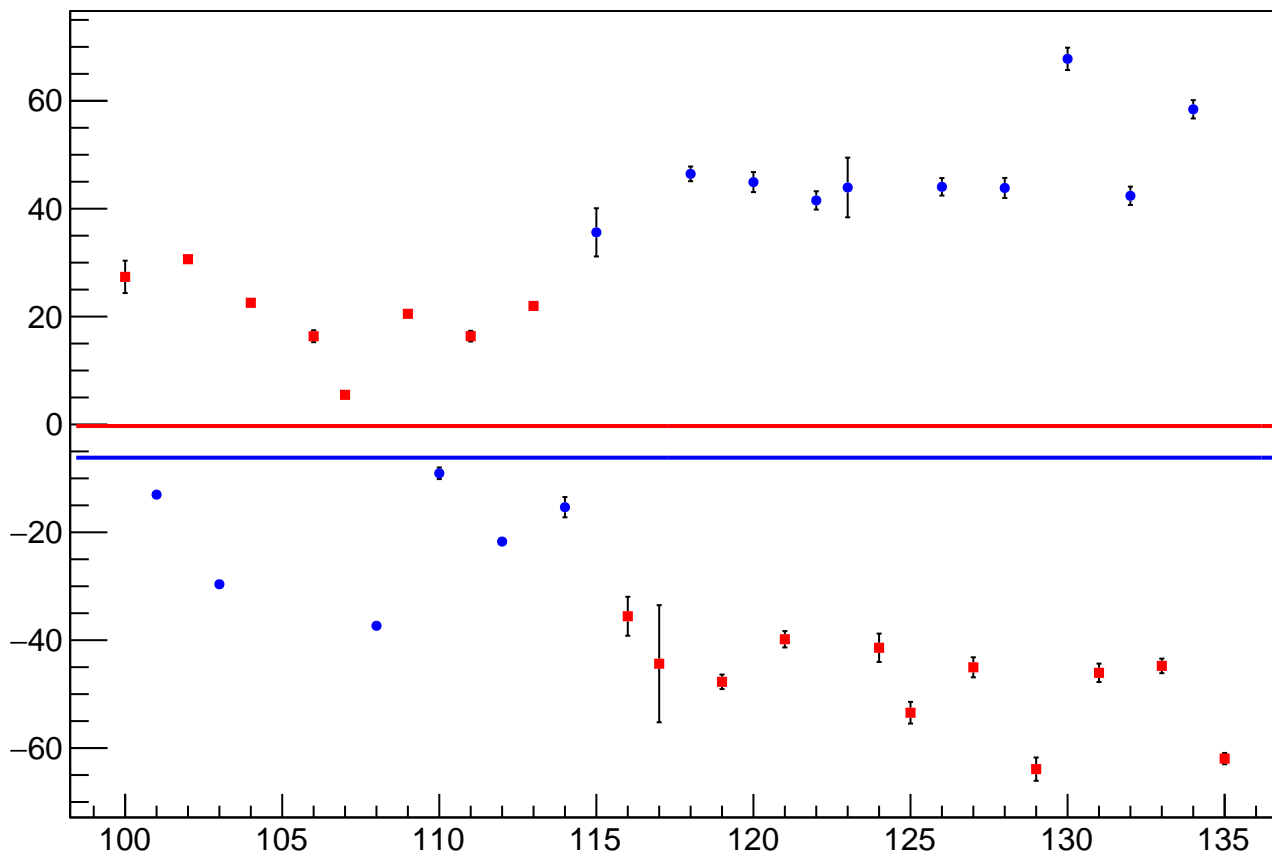
-3.439+/-0.380  $\chi^2$ /NDF: 746.1/15

-1.089+/-0.269  $\chi^2$ /NDF: 1313.5/34

1.266+/-0.381  $\chi^2$ /NDF: 491.0/18



# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-6.160 \pm 0.259$   $\chi^2/\text{NDF}: 11432.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.292 \pm 0.270$   $\chi^2/\text{NDF}: 13911.5/18$

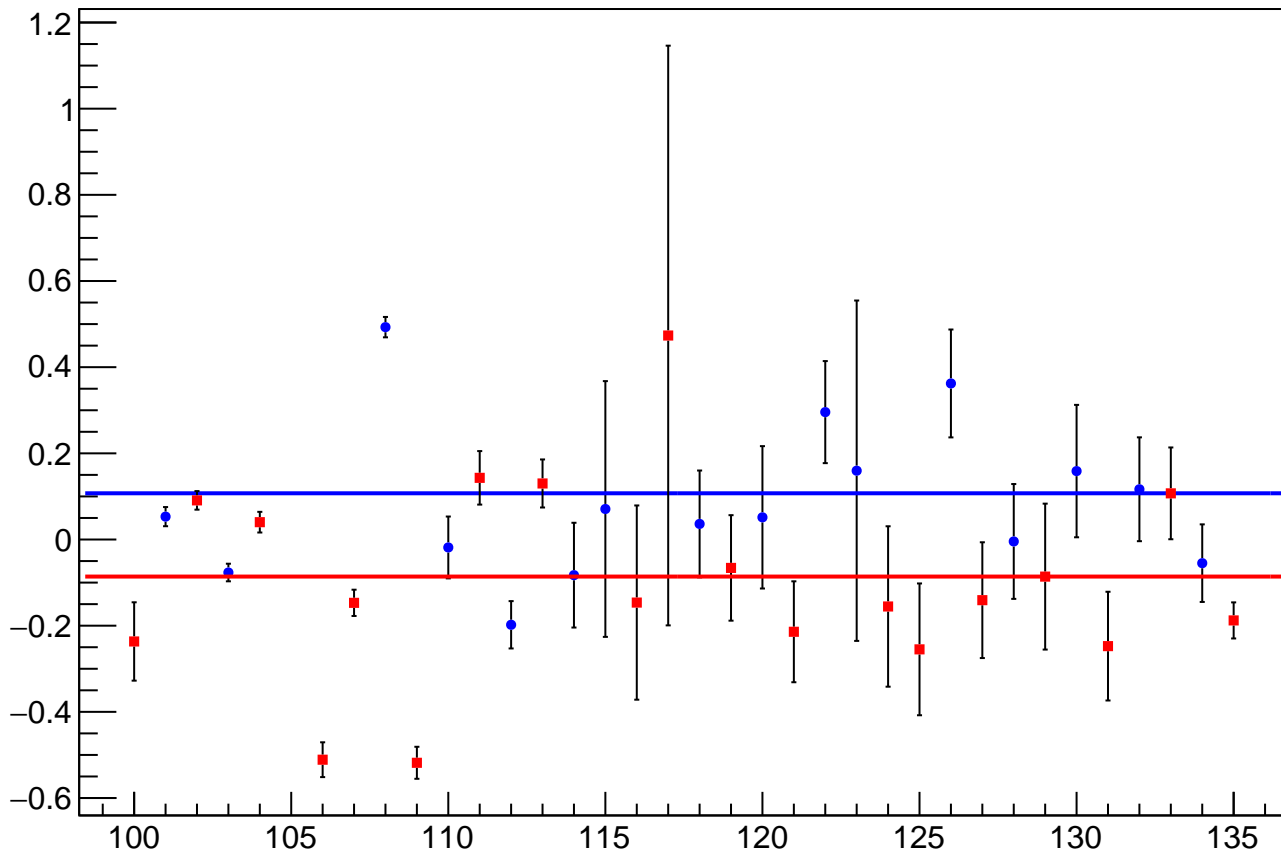
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-6.160 \pm 0.259$   $\chi^2/\text{NDF}: 11432.8/15$

$-3.342 \pm 0.187$   $\chi^2/\text{NDF}: 25589.8/34$

$-0.292 \pm 0.270$   $\chi^2/\text{NDF}: 13911.5/18$

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.107+/-0.012  $\chi^2/\text{NDF}$ : 400.3/15

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

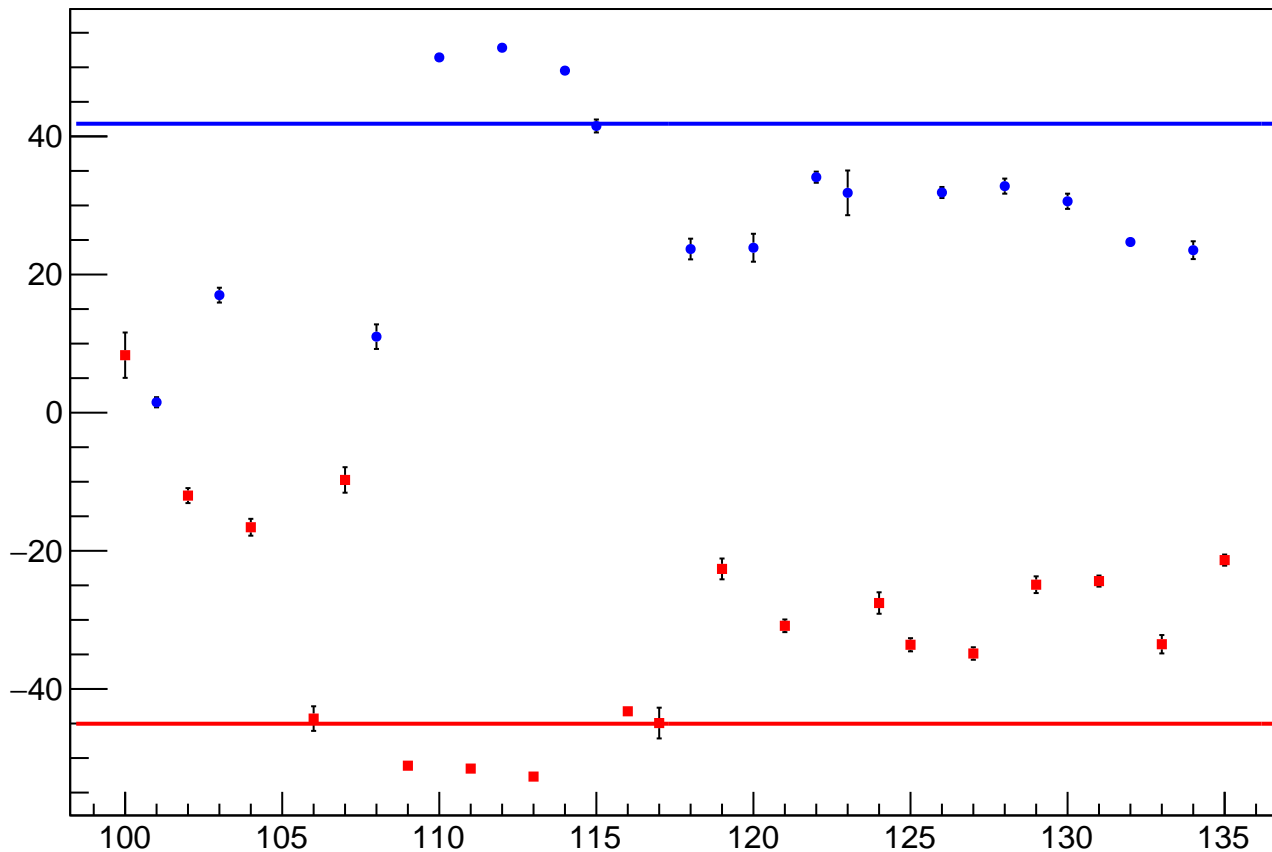
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.107+/-0.012  $\chi^2/\text{NDF}$ : 400.3/15

0.006+/-0.008  $\chi^2/\text{NDF}$ : 934.5/34

-0.086+/-0.011  $\chi^2/\text{NDF}$ : 390.7/18

# reg\_asym\_sam7\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 41.832+/-0.175  $\chi^2$ /NDF: 7377.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -45.031+/-0.149  $\chi^2$ /NDF: 6298.7/18

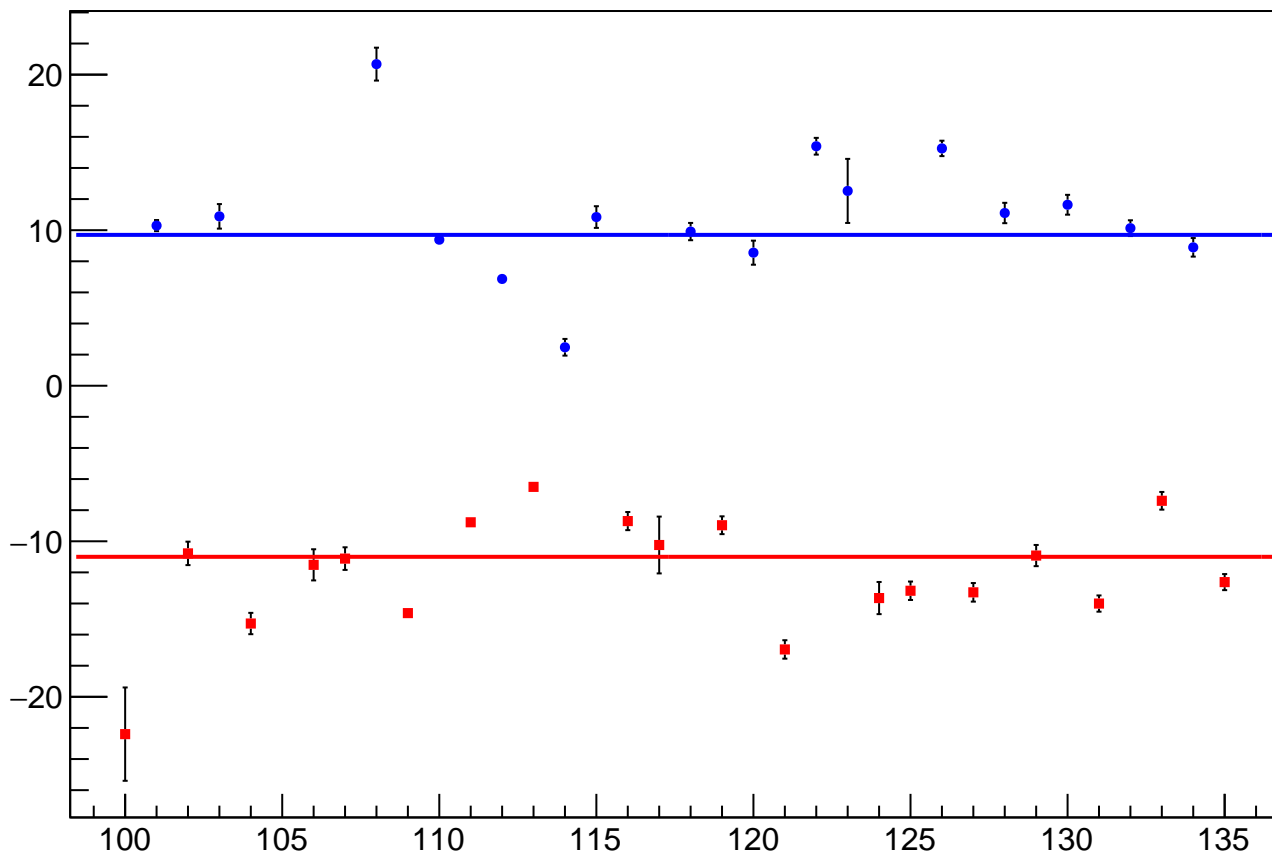
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

41.832+/-0.175  $\chi^2$ /NDF: 7377.0/15

-8.642+/-0.113  $\chi^2$ /NDF: 156911.3/34

-45.031+/-0.149  $\chi^2$ /NDF: 6298.7/18

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 9.698 $\pm$ 0.125  $\chi^2$ /NDF: 669.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -10.999 $\pm$ 0.117  $\chi^2$ /NDF: 782.3/18

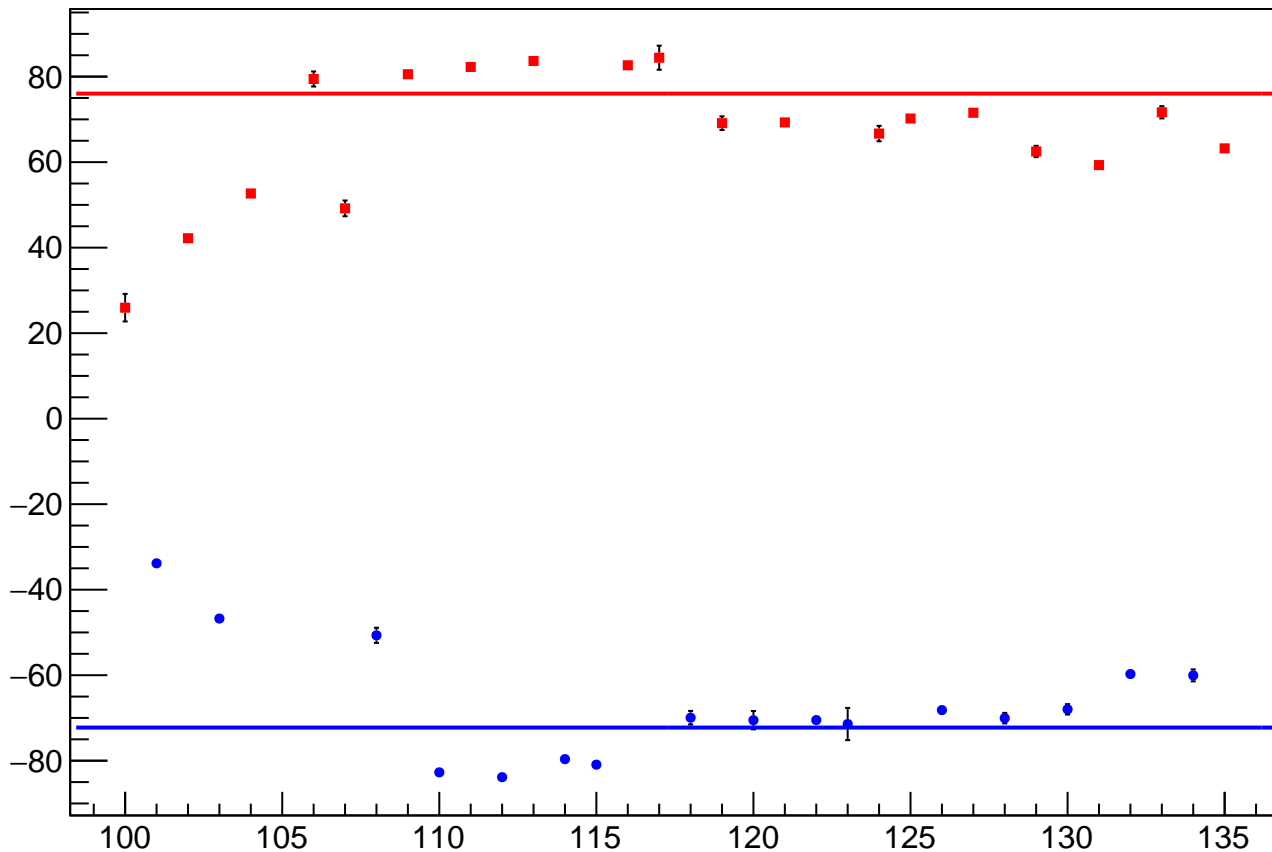
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

9.698 $\pm$ 0.125  $\chi^2$ /NDF: 669.3/15

-1.310 $\pm$ 0.086  $\chi^2$ /NDF: 16026.7/34

-10.999 $\pm$ 0.117  $\chi^2$ /NDF: 782.3/18

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-72.250 \pm 0.209$   $\chi^2/\text{NDF}: 5565.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $76.028 \pm 0.182$   $\chi^2/\text{NDF}: 3471.8/18$

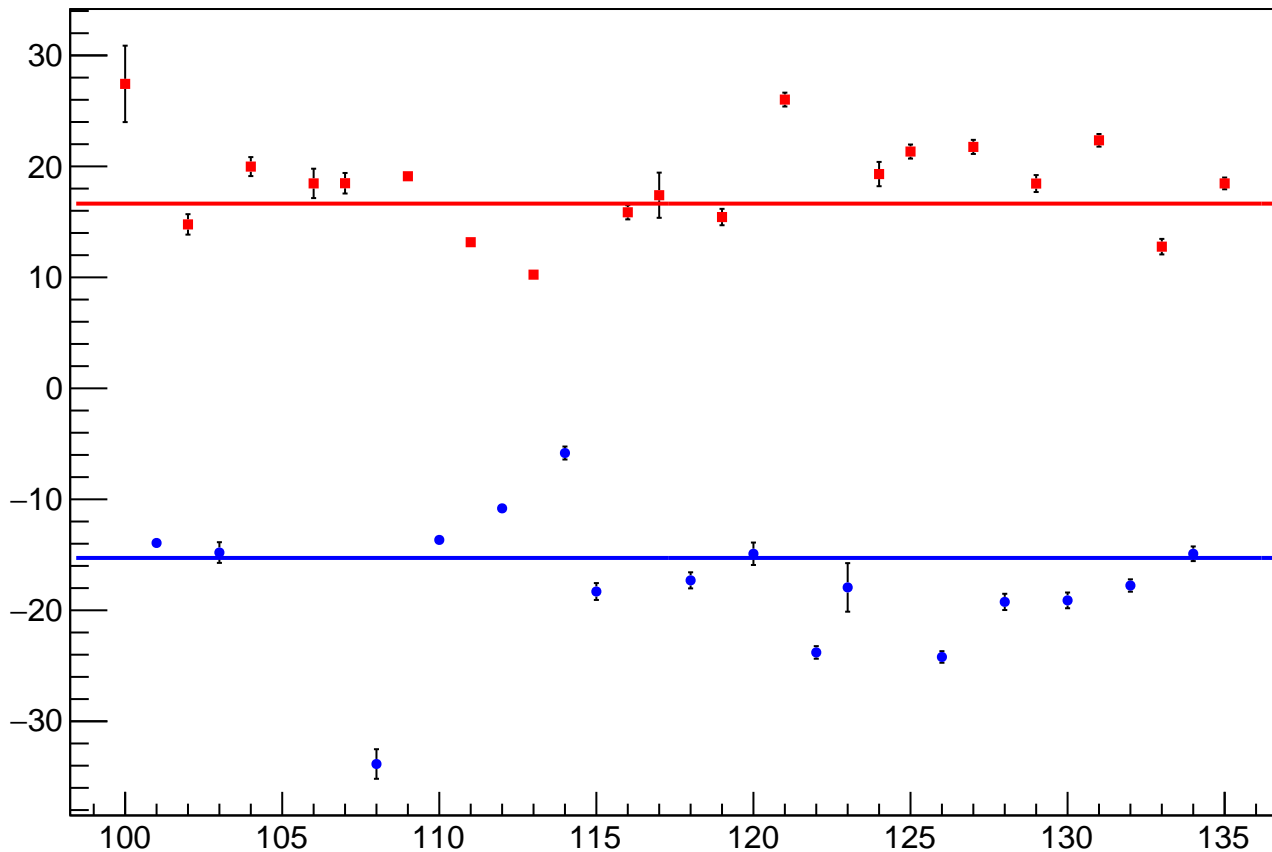
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-72.250 \pm 0.209$   $\chi^2/\text{NDF}: 5565.9/15$

$11.858 \pm 0.137$   $\chi^2/\text{NDF}: 295293.1/34$

$76.028 \pm 0.182$   $\chi^2/\text{NDF}: 3471.8/18$

# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-15.282 \pm 0.140$   $\chi^2/\text{NDF}: 1343.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $16.645 \pm 0.129$   $\chi^2/\text{NDF}: 1155.9/18$

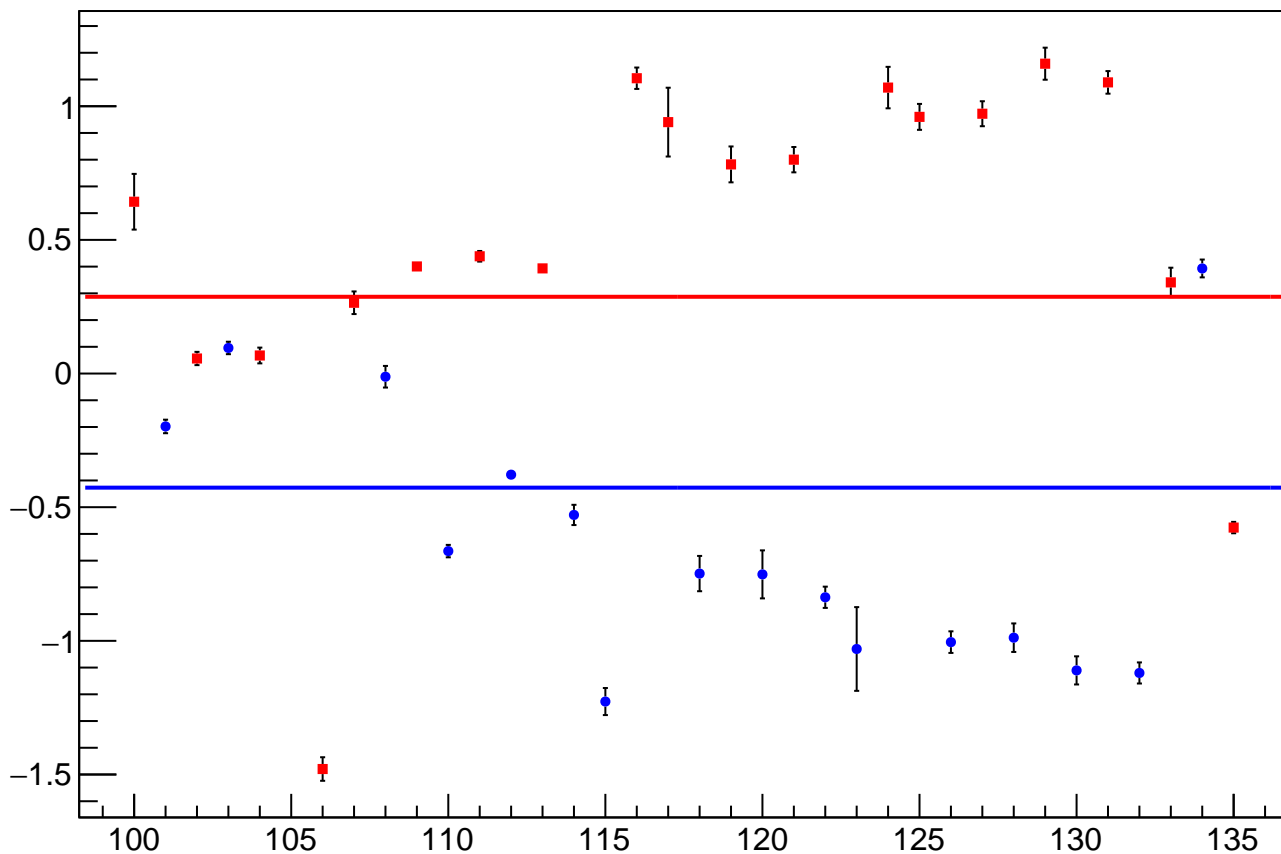
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-15.282 \pm 0.140$   $\chi^2/\text{NDF}: 1343.5/15$

$1.961 \pm 0.095$   $\chi^2/\text{NDF}: 30488.8/34$

$16.645 \pm 0.129$   $\chi^2/\text{NDF}: 1155.9/18$

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.427 \pm 0.008$   $\chi^2/\text{NDF}: 2613.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.287 \pm 0.007$   $\chi^2/\text{NDF}: 5236.9/18$

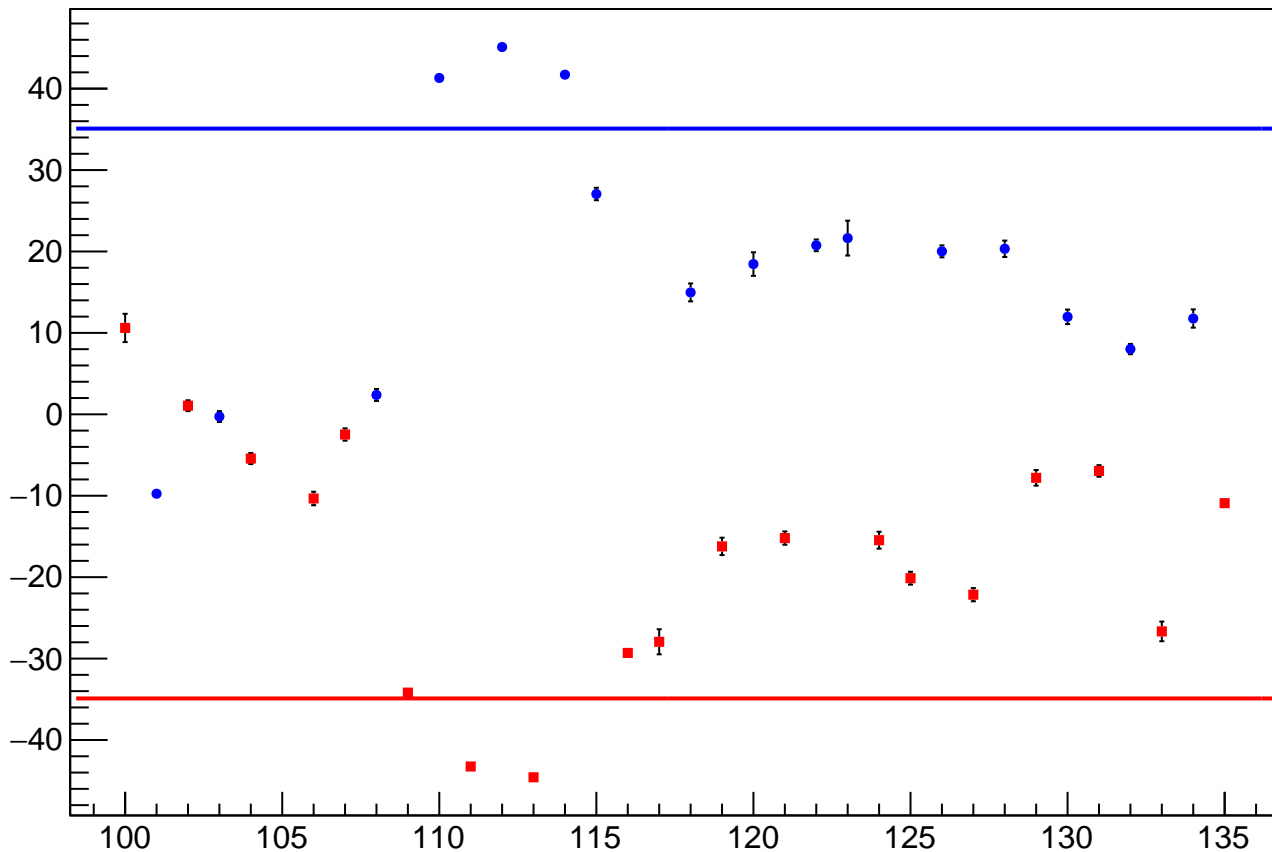
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.427 \pm 0.008$   $\chi^2/\text{NDF}: 2613.7/15$

$-0.019 \pm 0.006$   $\chi^2/\text{NDF}: 11935.6/34$

$0.287 \pm 0.007$   $\chi^2/\text{NDF}: 5236.9/18$

# reg\_asym\_sam8\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 35.094+/-0.107  $\chi^2$ /NDF: 22919.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -34.895+/-0.087  $\chi^2$ /NDF: 19223.8/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

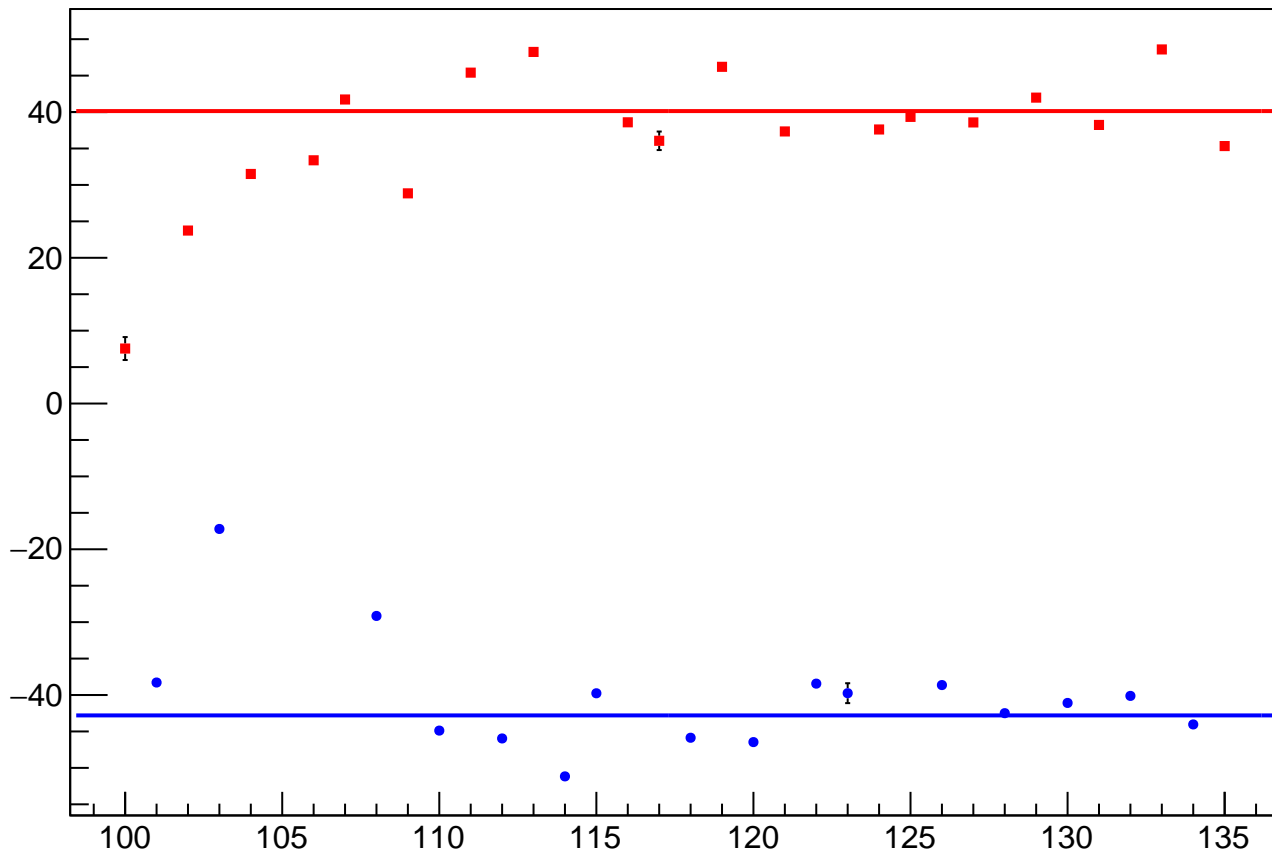
35.094+/-0.107  $\chi^2$ /NDF: 22919.4/15

-7.061+/-0.067  $\chi^2$ /NDF: 301067.1/34

-34.895+/-0.087  $\chi^2$ /NDF: 19223.8/18



# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-42.799 \pm 0.081$   $\chi^2/\text{NDF}: 5556.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $40.134 \pm 0.073$   $\chi^2/\text{NDF}: 11226.1/18$

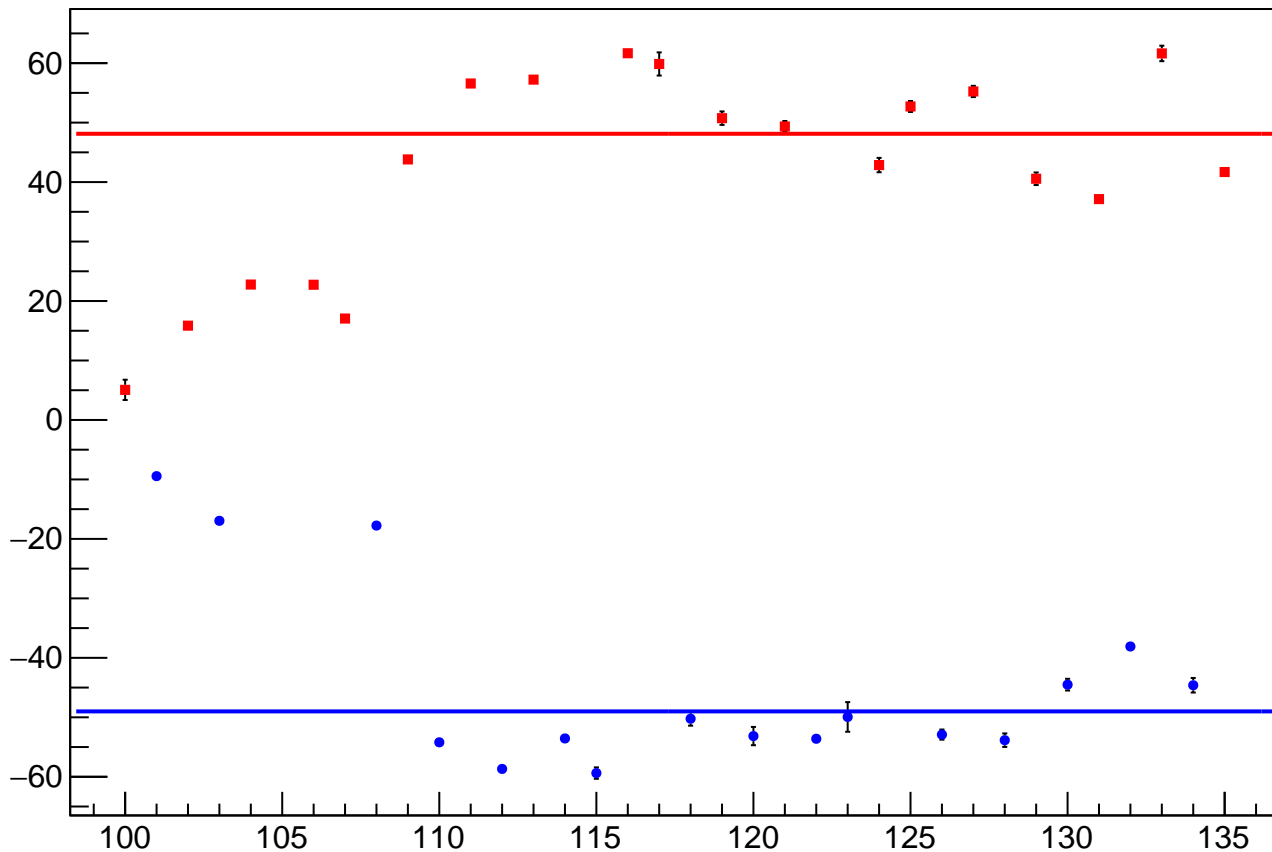
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-42.799 \pm 0.081$   $\chi^2/\text{NDF}: 5556.4/15$

$2.718 \pm 0.054$   $\chi^2/\text{NDF}: 597187.6/34$

$40.134 \pm 0.073$   $\chi^2/\text{NDF}: 11226.1/18$

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-49.007 \pm 0.129$   $\chi^2/\text{NDF}: 14593.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $48.122 \pm 0.108$   $\chi^2/\text{NDF}: 11769.3/18$

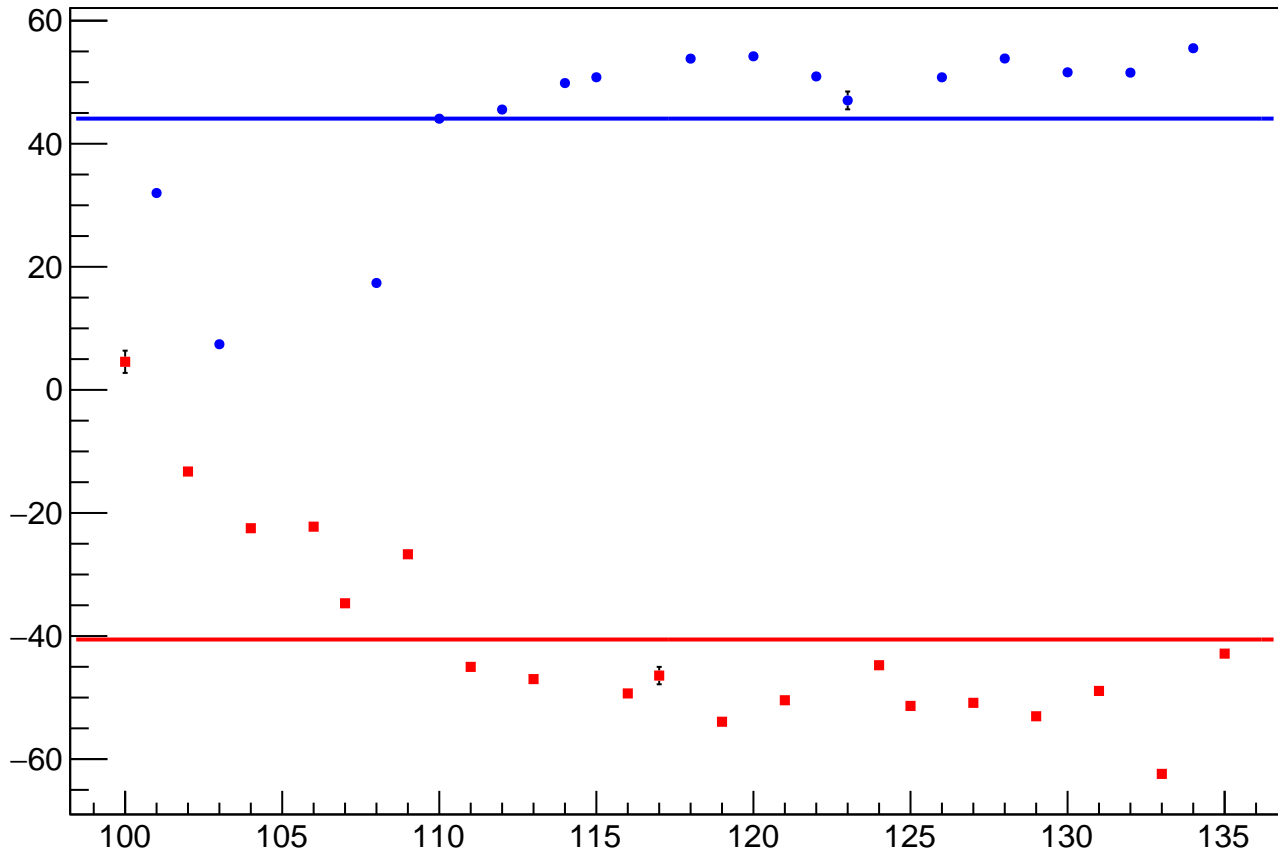
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-49.007 \pm 0.129$   $\chi^2/\text{NDF}: 14593.9/15$

$8.248 \pm 0.083$   $\chi^2/\text{NDF}: 360480.0/34$

$48.122 \pm 0.108$   $\chi^2/\text{NDF}: 11769.3/18$

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 44.084+/-0.090  $\chi^2$ /NDF: 10373.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -40.565+/-0.081  $\chi^2$ /NDF: 17617.9/18

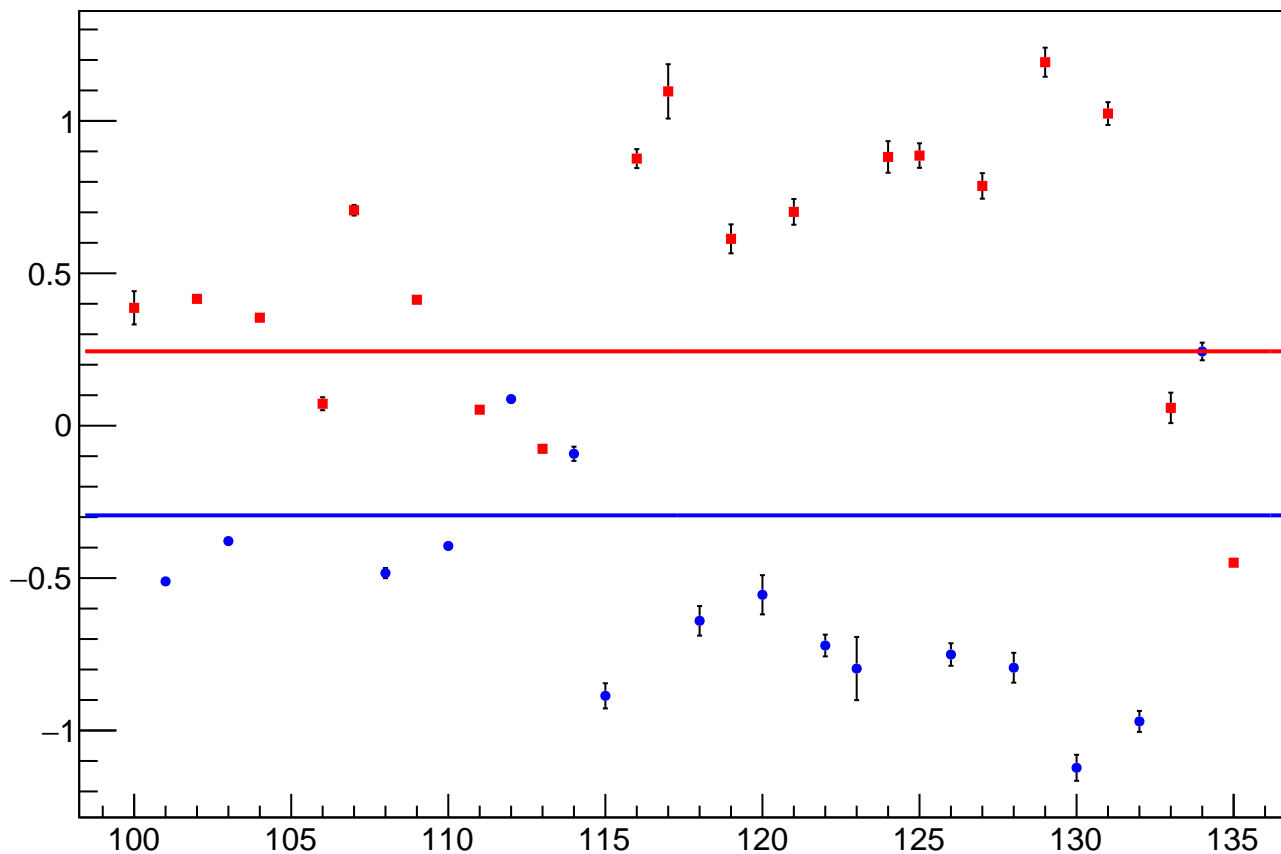
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

44.084+/-0.090  $\chi^2$ /NDF: 10373.9/15

-3.074+/-0.060  $\chi^2$ /NDF: 515748.6/34

-40.565+/-0.081  $\chi^2$ /NDF: 17617.9/18

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.294 \pm 0.005$   $\chi^2/\text{NDF}$ : 3807.1/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.244 \pm 0.004$   $\chi^2/\text{NDF}$ : 6462.3/18

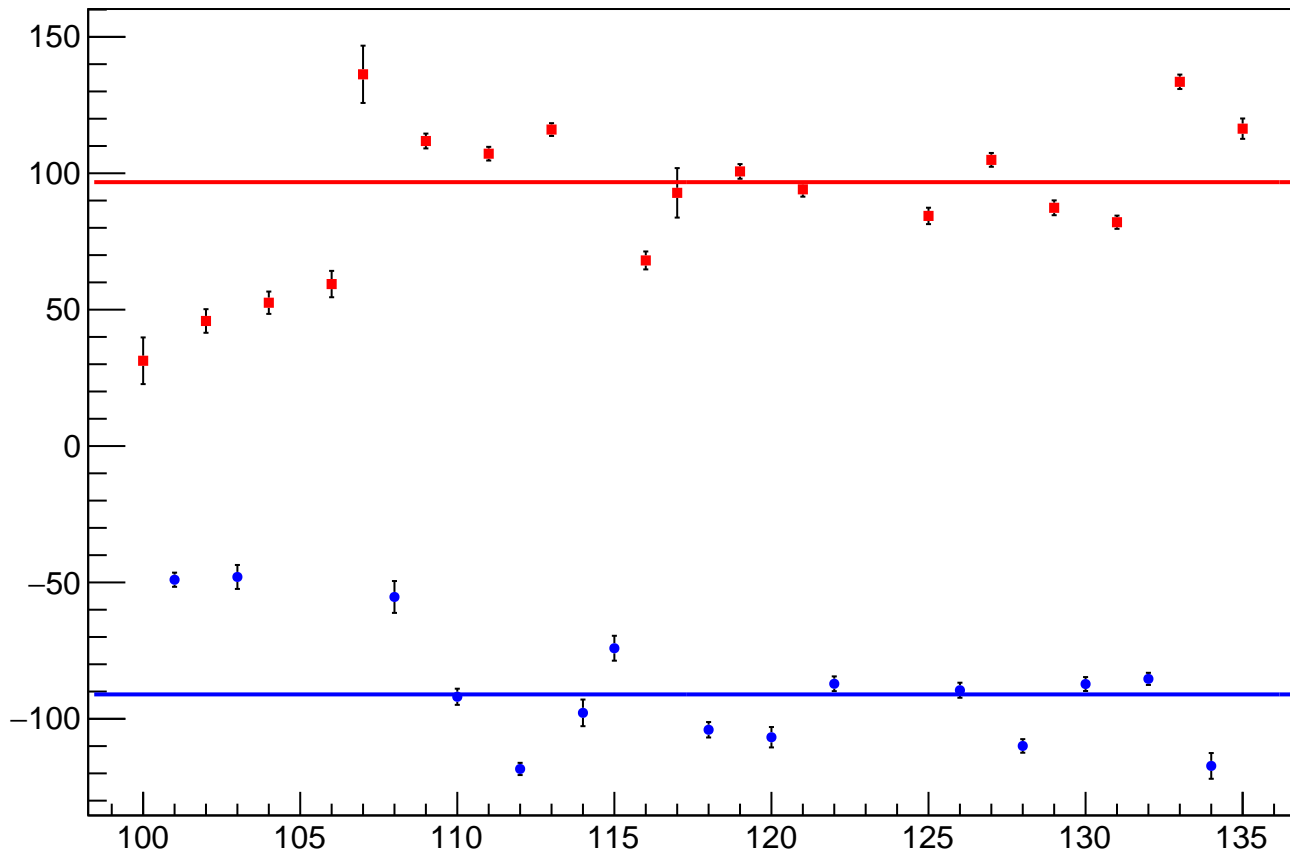
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.294 \pm 0.005$   $\chi^2/\text{NDF}$ : 3807.1/15

$0.024 \pm 0.003$   $\chi^2/\text{NDF}$ : 16535.9/34

$0.244 \pm 0.004$   $\chi^2/\text{NDF}$ : 6462.3/18

# reg\_asym\_usl\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-91.049 \pm 0.777$   $\chi^2/\text{NDF}$ : 697.4/14

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $96.745 \pm 0.741$   $\chi^2/\text{NDF}$ : 879.2/17

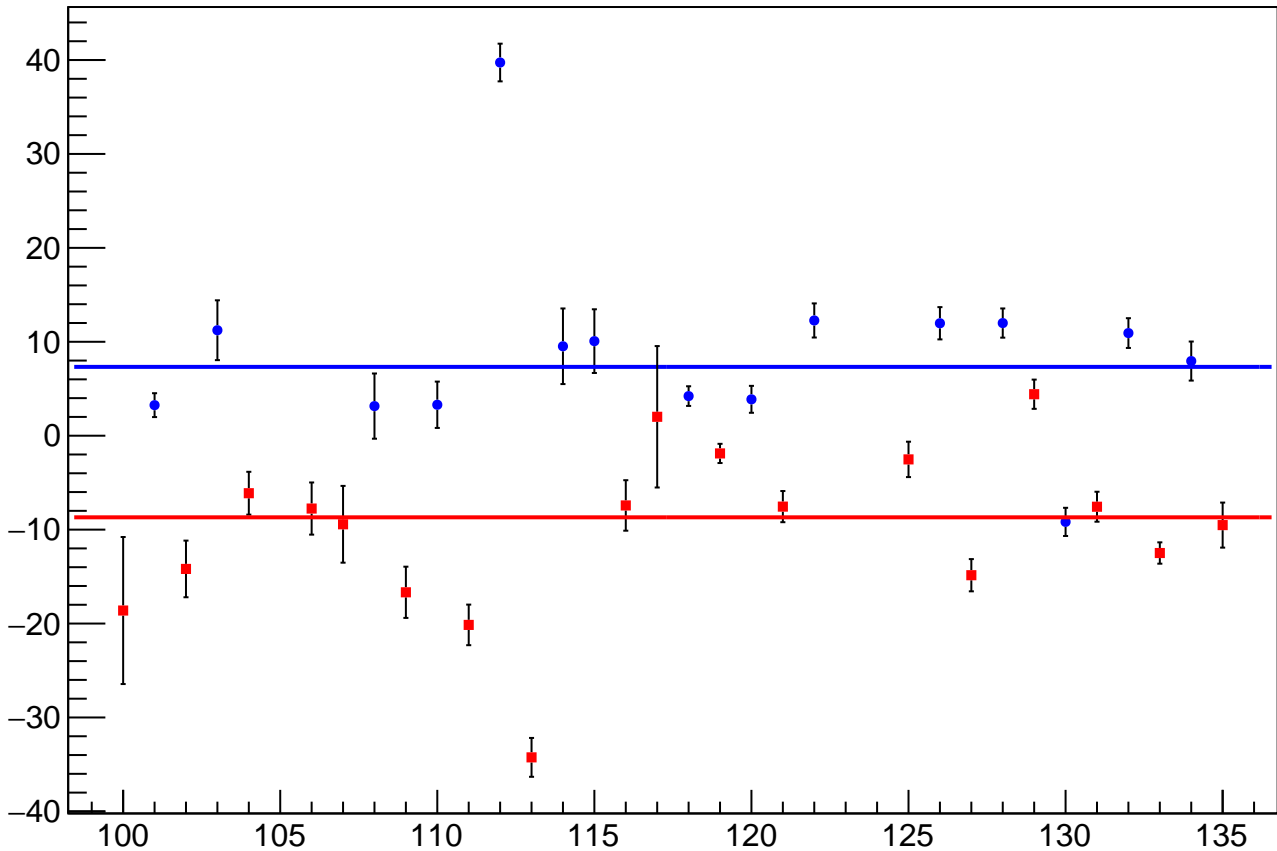
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-91.049 \pm 0.777$   $\chi^2/\text{NDF}$ : 697.4/14

$7.302 \pm 0.536$   $\chi^2/\text{NDF}$ : 32175.1/32

$96.745 \pm 0.741$   $\chi^2/\text{NDF}$ : 879.2/17

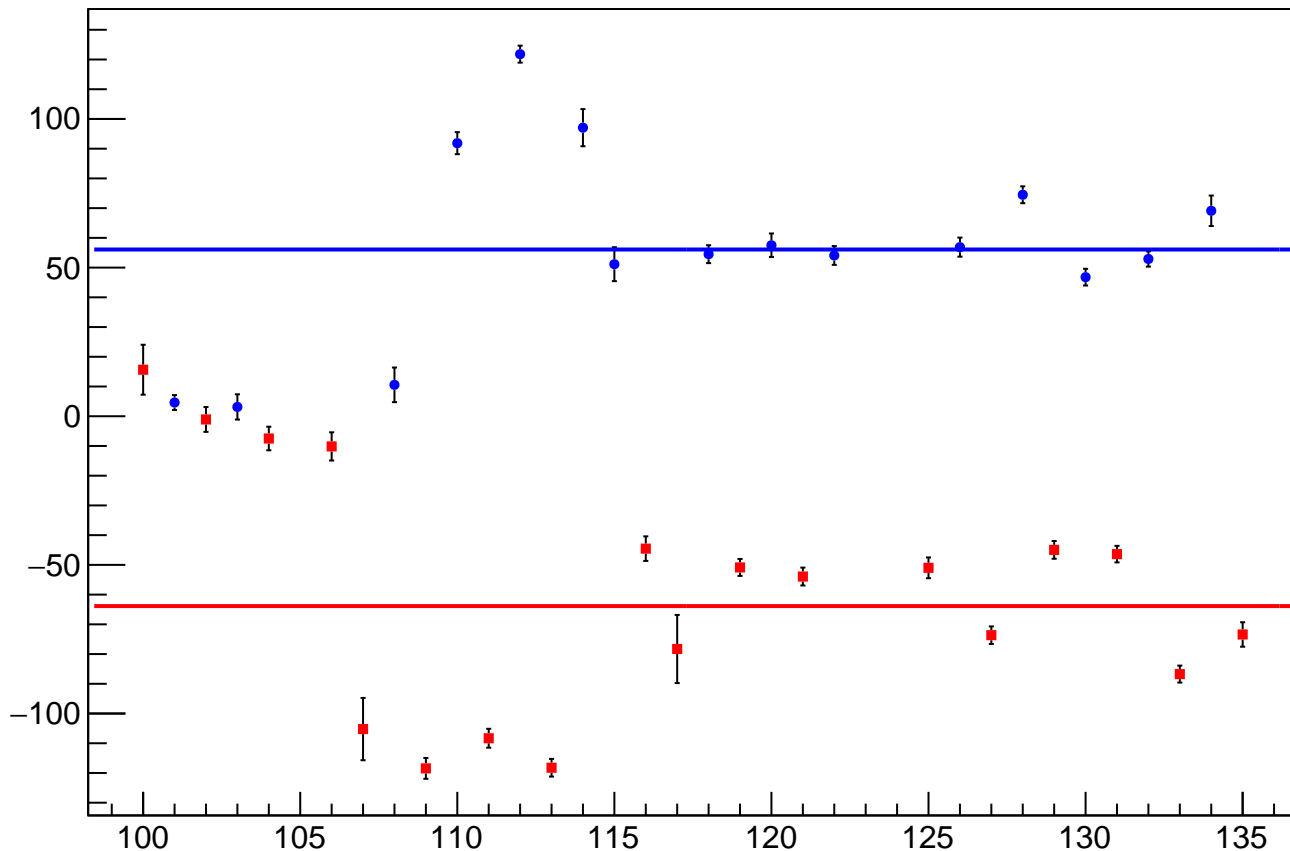
# reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 7.328+/-0.452  $\chi^2$ /NDF: 442.3/14  
Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
Right Out: -8.690+/-0.450  $\chi^2$ /NDF: 349.0/17  
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

7.328+/-0.452  $\chi^2$ /NDF: 442.3/14  
-0.723+/-0.319  $\chi^2$ /NDF: 1422.0/32  
-8.690+/-0.450  $\chi^2$ /NDF: 349.0/17

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 56.086 $\pm$ 0.874  $\chi^2$ /NDF: 1367.4/14

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -63.862 $\pm$ 0.845  $\chi^2$ /NDF: 1661.2/17

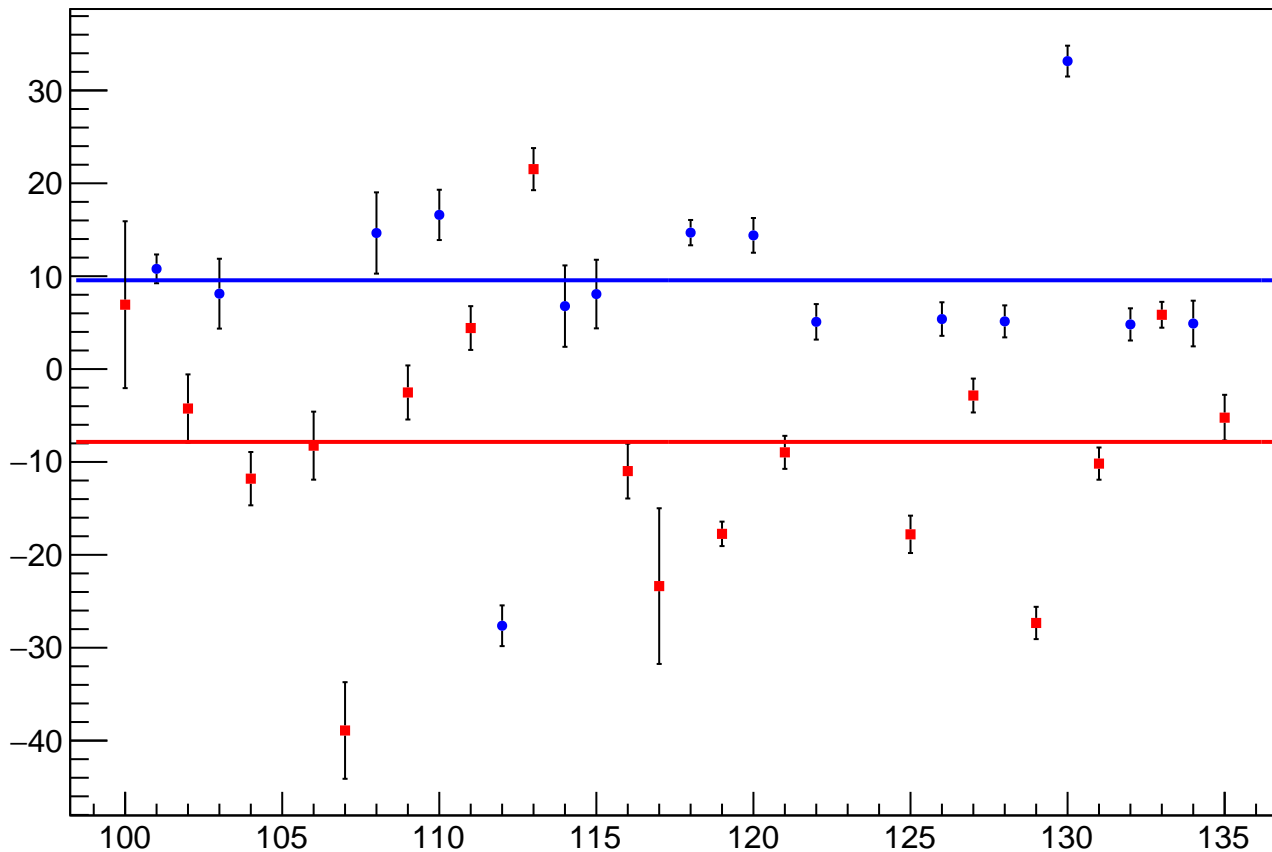
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

56.086 $\pm$ 0.874  $\chi^2$ /NDF: 1367.4/14

-5.940 $\pm$ 0.608  $\chi^2$ /NDF: 12759.2/32

-63.862 $\pm$ 0.845  $\chi^2$ /NDF: 1661.2/17

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 9.558+/-0.526  $\chi^2$ /NDF: 548.3/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.842+/-0.518  $\chi^2$ /NDF: 558.5/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

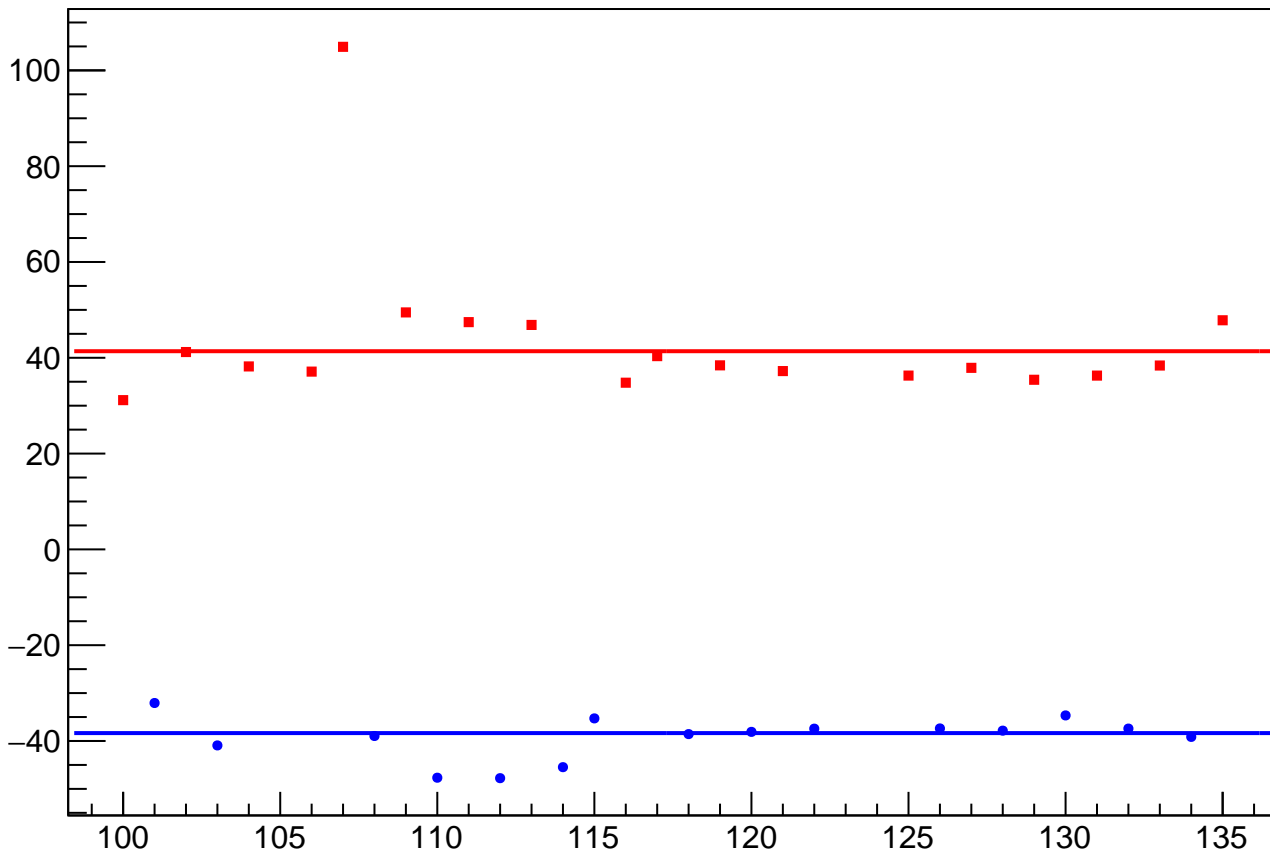
9.558+/-0.526  $\chi^2$ /NDF: 548.3/14

0.719+/-0.369  $\chi^2$ /NDF: 1662.3/32

-7.842+/-0.518  $\chi^2$ /NDF: 558.5/17



# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-38.352 \pm 0.034$   $\chi^2/\text{NDF}: 15167.2/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $41.373 \pm 0.032$   $\chi^2/\text{NDF}: 92354.7/17$

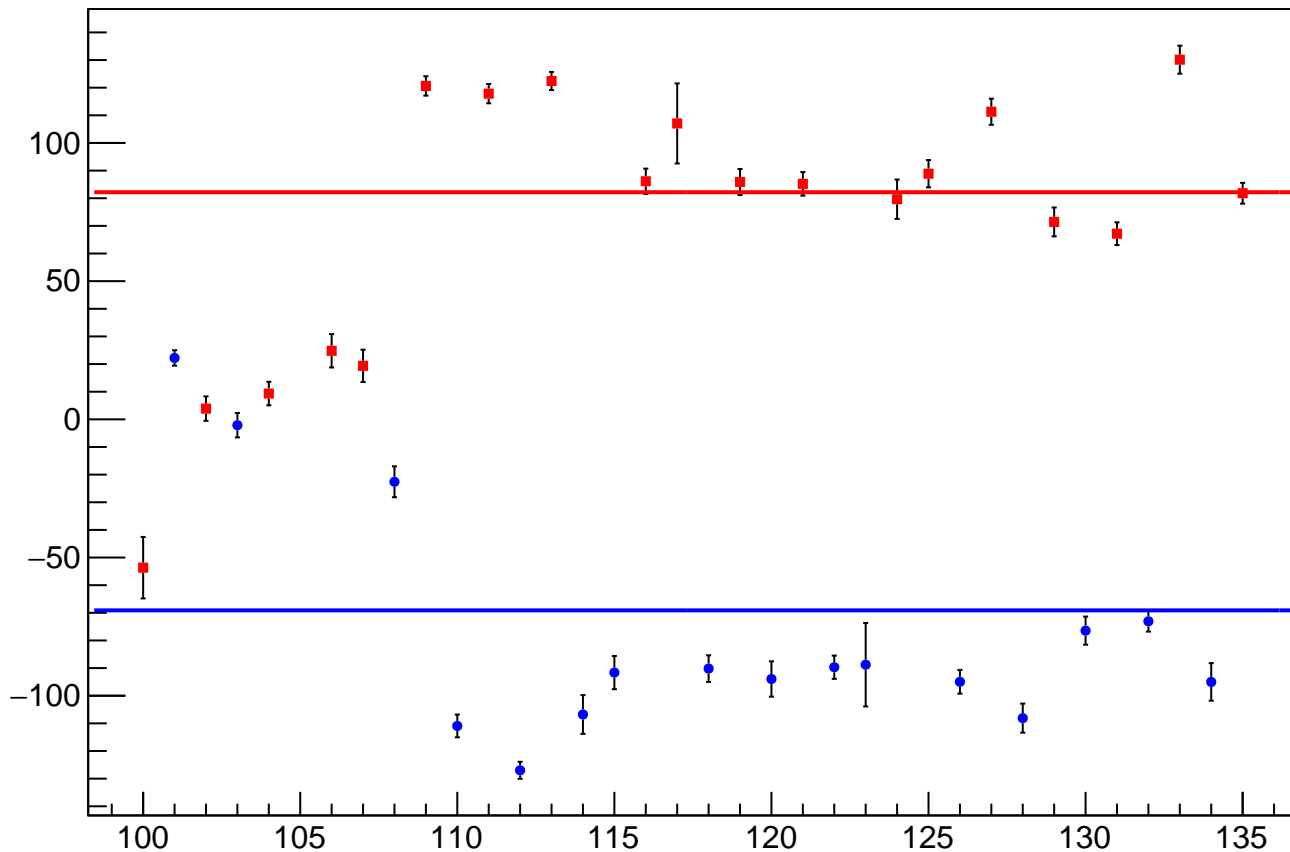
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-38.352 \pm 0.034$   $\chi^2/\text{NDF}: 15167.2/14$

$4.466 \pm 0.023$   $\chi^2/\text{NDF}: 3040460.7/32$

$41.373 \pm 0.032$   $\chi^2/\text{NDF}: 92354.7/17$

# reg\_asym\_usr\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-69.113 \pm 1.135$   $\chi^2/\text{NDF}: 2042.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $82.179 \pm 1.059$   $\chi^2/\text{NDF}: 1490.3/18$

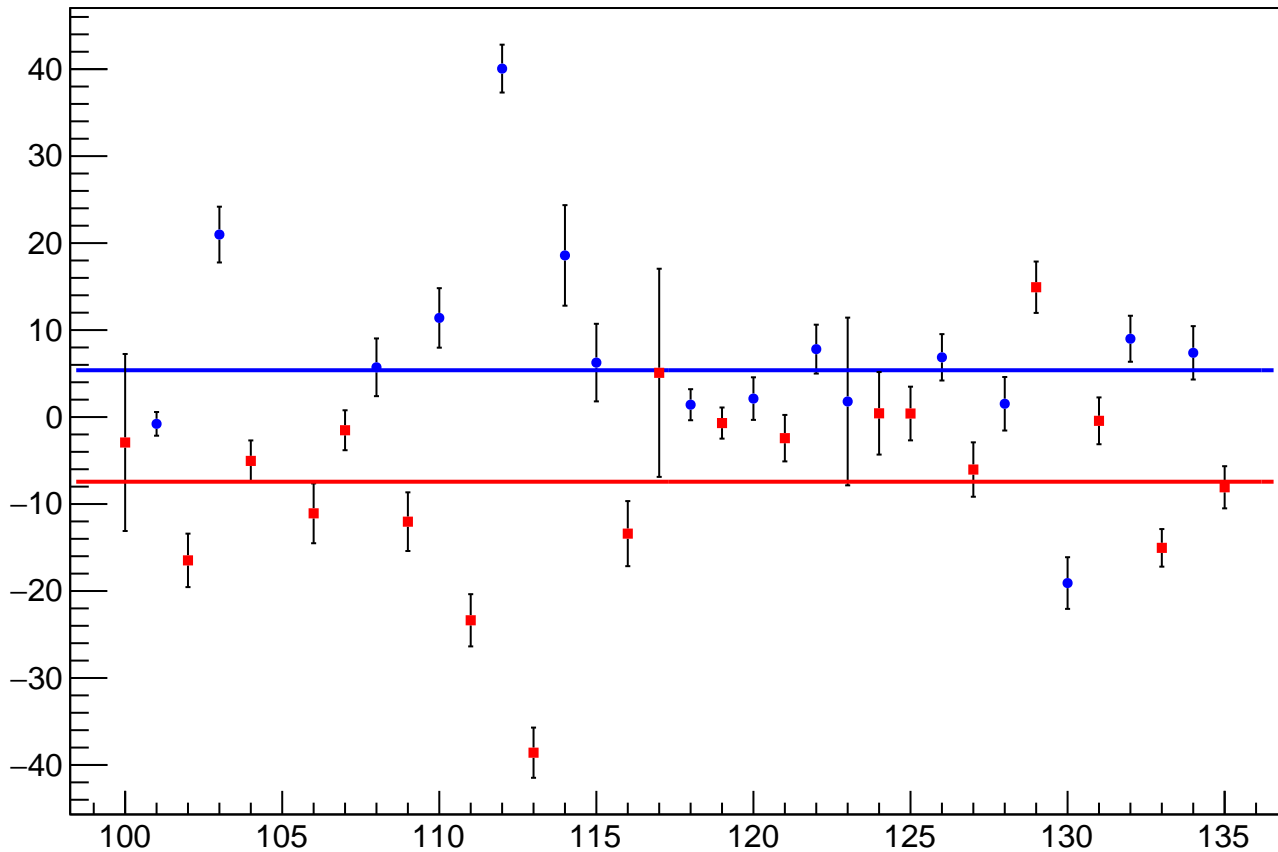
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-69.113 \pm 1.135$   $\chi^2/\text{NDF}: 2042.8/15$

$11.760 \pm 0.775$   $\chi^2/\text{NDF}: 13025.3/34$

$82.179 \pm 1.059$   $\chi^2/\text{NDF}: 1490.3/18$

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.382+/-0.666  $\chi^2/\text{NDF}$ : 290.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.434+/-0.658  $\chi^2/\text{NDF}$ : 271.5/18

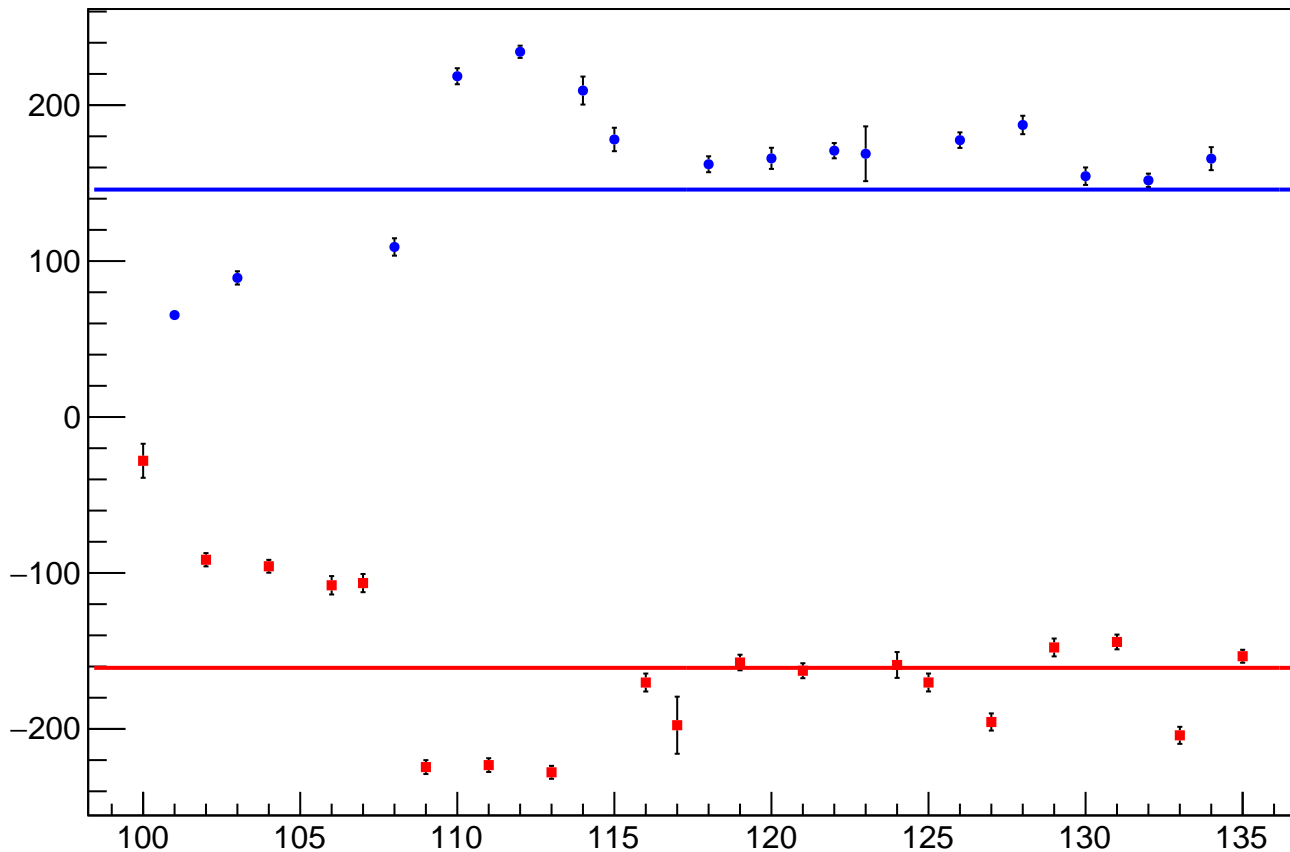
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.382+/-0.666  $\chi^2/\text{NDF}$ : 290.9/15

-1.107+/-0.468  $\chi^2/\text{NDF}$ : 749.6/34

-7.434+/-0.658  $\chi^2/\text{NDF}$ : 271.5/18

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 145.845 $\pm$ 1.254  $\chi^2$ /NDF: 2041.8/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -160.839 $\pm$ 1.195  $\chi^2$ /NDF: 1625.2/18

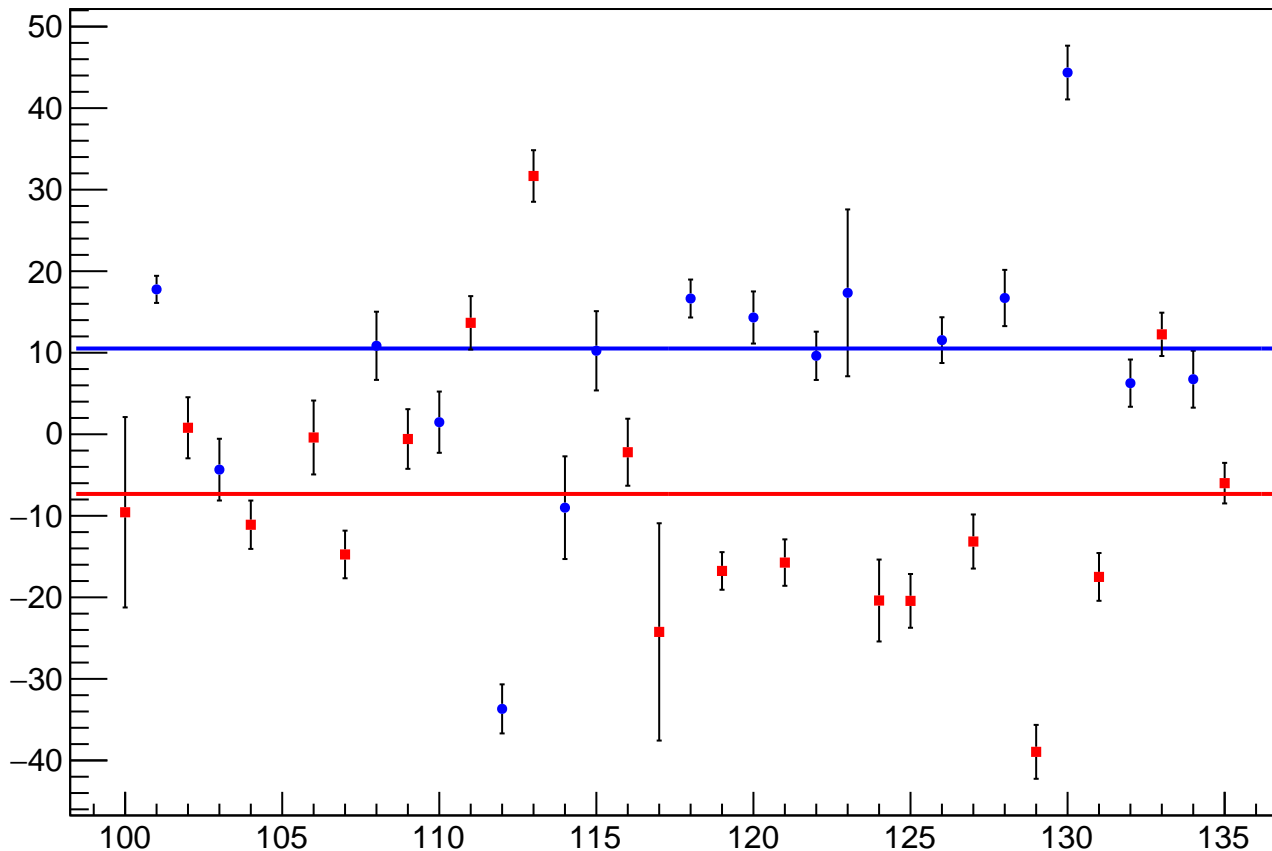
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

145.845 $\pm$ 1.254  $\chi^2$ /NDF: 2041.8/15

-14.890 $\pm$ 0.865  $\chi^2$ /NDF: 35032.5/34

-160.839 $\pm$ 1.195  $\chi^2$ /NDF: 1625.2/18

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.519+/-0.779  $\chi^2$ /NDF: 386.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.318+/-0.759  $\chi^2$ /NDF: 424.0/18

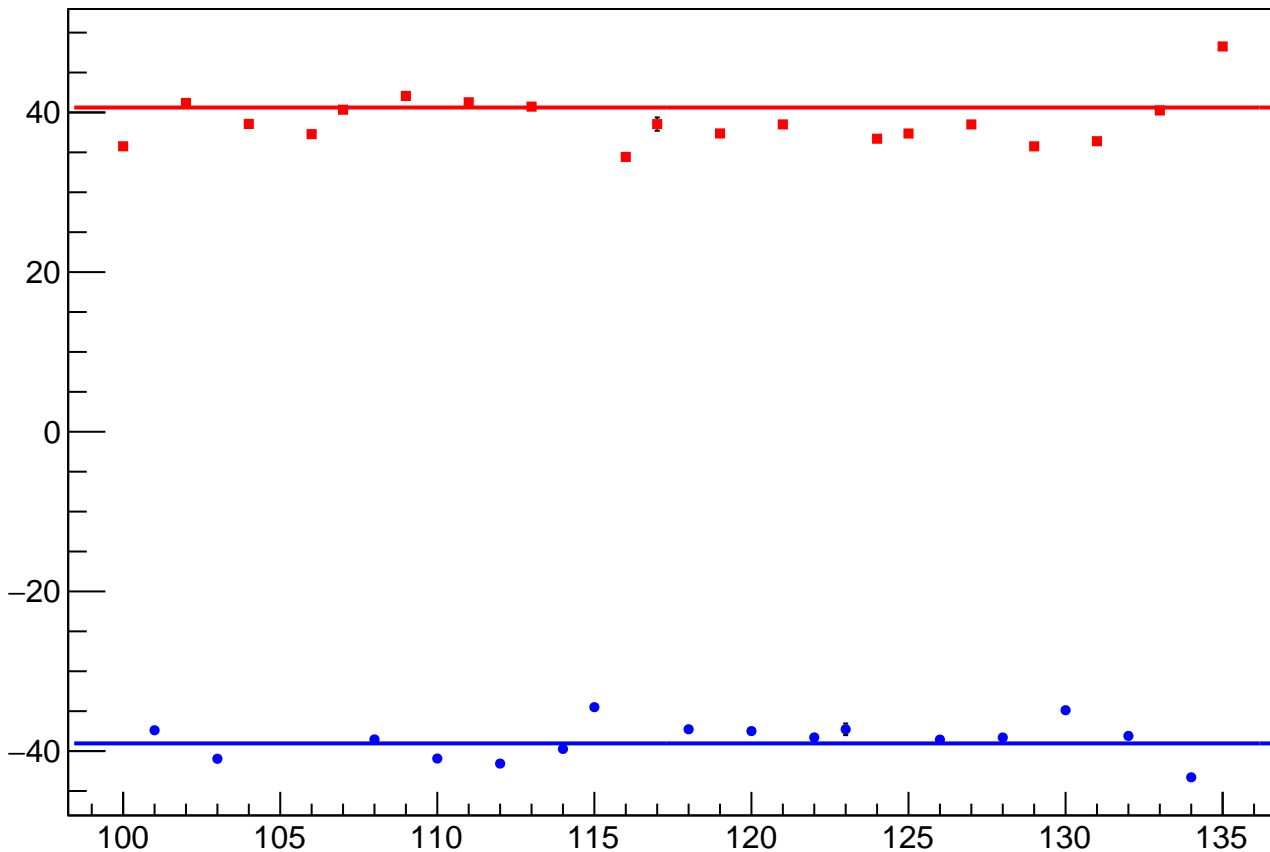
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

10.519+/-0.779  $\chi^2$ /NDF: 386.6/15

1.370+/-0.544  $\chi^2$ /NDF: 1079.6/34

-7.318+/-0.759  $\chi^2$ /NDF: 424.0/18

# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-39.036 \pm 0.044$   $\chi^2/\text{NDF}: 2116.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $40.617 \pm 0.040$   $\chi^2/\text{NDF}: 8975.5/18$

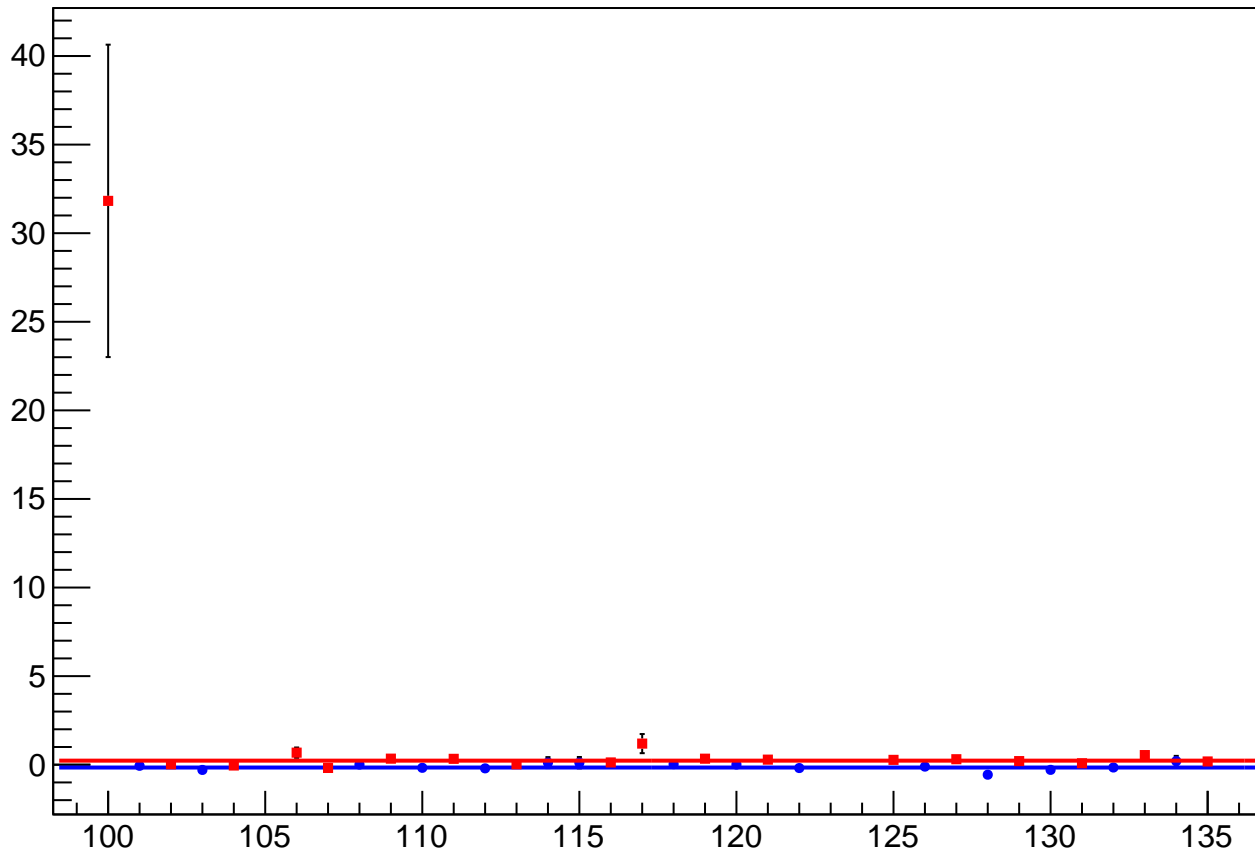
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-39.036 \pm 0.044$   $\chi^2/\text{NDF}: 2116.3/15$

$5.369 \pm 0.030$   $\chi^2/\text{NDF}: 1798596.1/34$

$40.617 \pm 0.040$   $\chi^2/\text{NDF}: 8975.5/18$

# reg\_asym\_dsl\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-0.159 \pm 0.050$   $\chi^2/\text{NDF}: 11.8/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.230 \pm 0.048$   $\chi^2/\text{NDF}: 30.8/17$

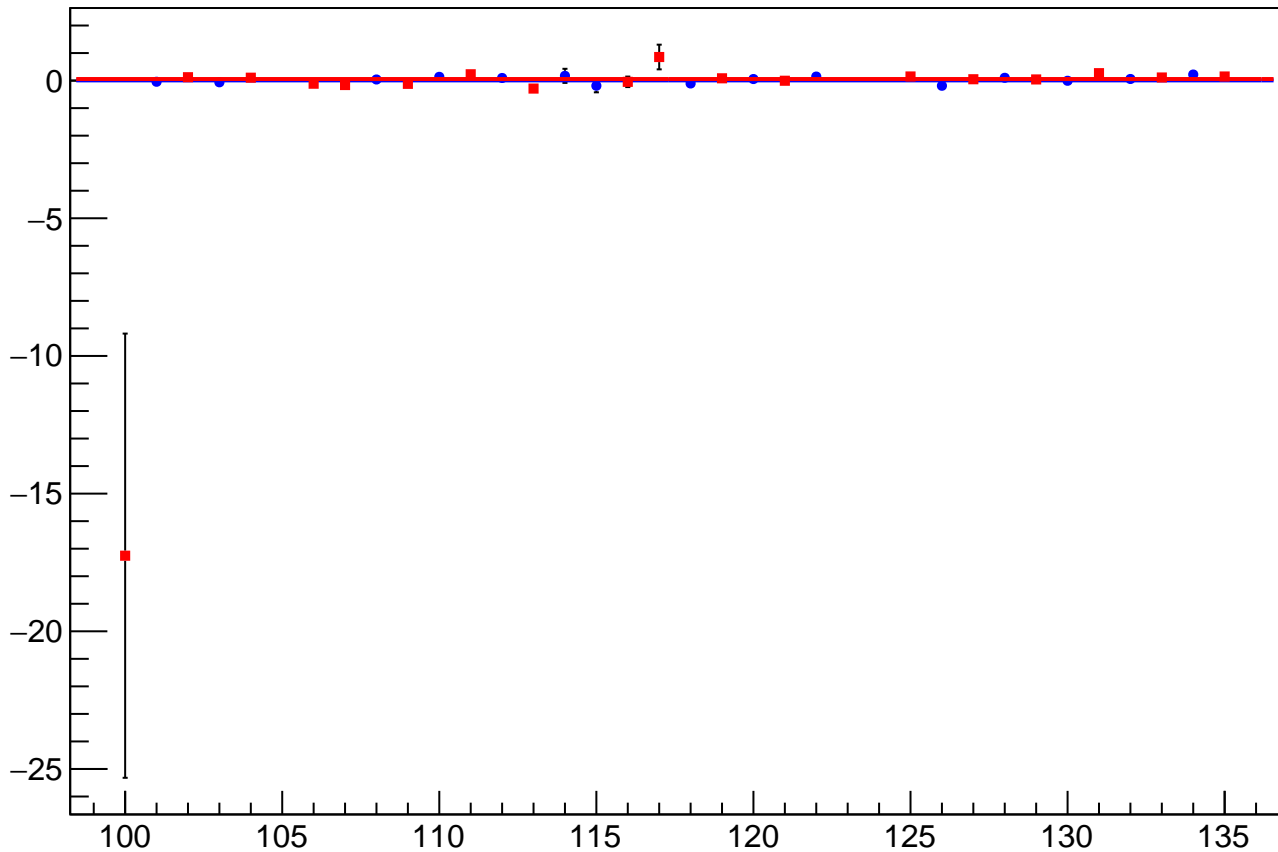
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.159 \pm 0.050$   $\chi^2/\text{NDF}: 11.8/14$

$0.044 \pm 0.035$   $\chi^2/\text{NDF}: 73.6/32$

$0.230 \pm 0.048$   $\chi^2/\text{NDF}: 30.8/17$

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.030  $\chi^2$ /NDF: 12.1/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.057+/-0.030  $\chi^2$ /NDF: 28.1/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

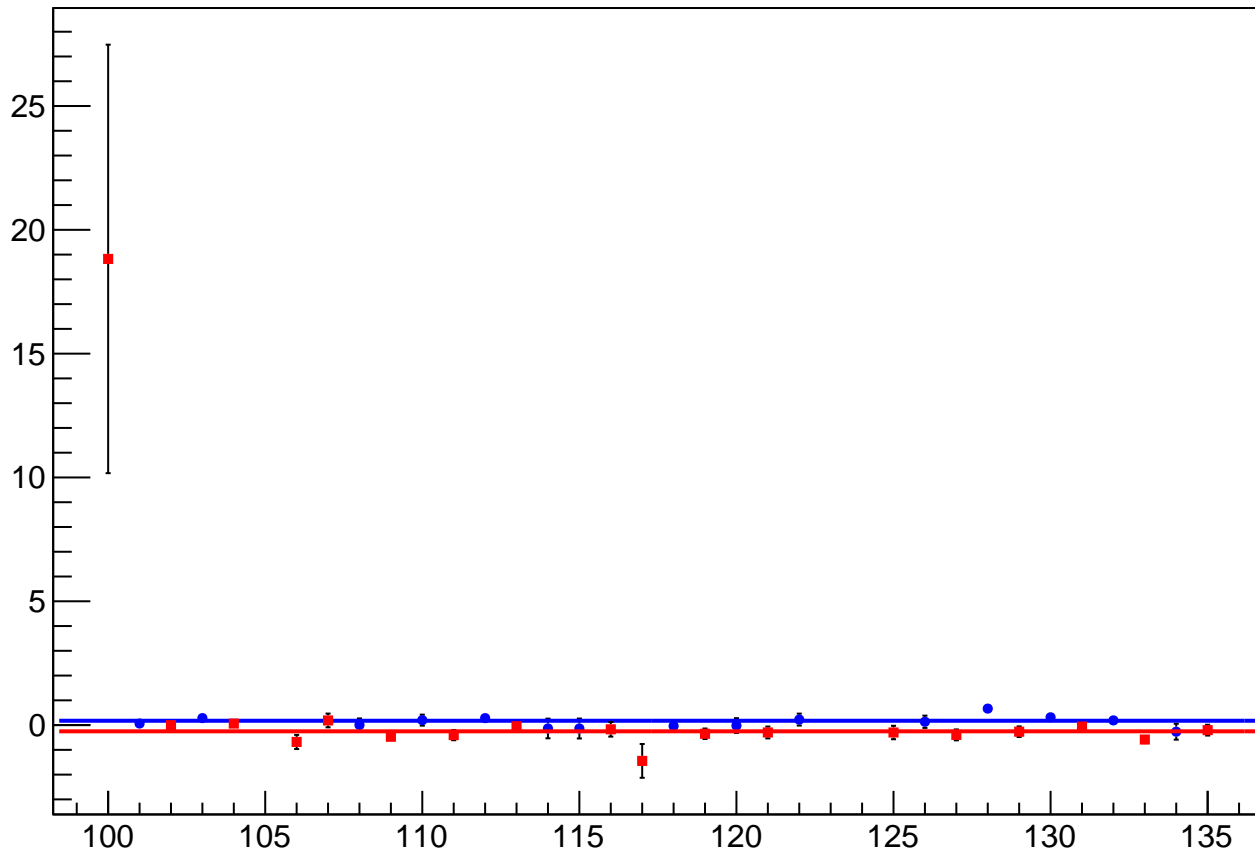
0.008+/-0.030  $\chi^2$ /NDF: 12.1/14

0.032+/-0.021  $\chi^2$ /NDF: 41.6/32

0.057+/-0.030  $\chi^2$ /NDF: 28.1/17



# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.175+/-0.056  $\chi^2$ /NDF: 13.0/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.251+/-0.054  $\chi^2$ /NDF: 24.5/17

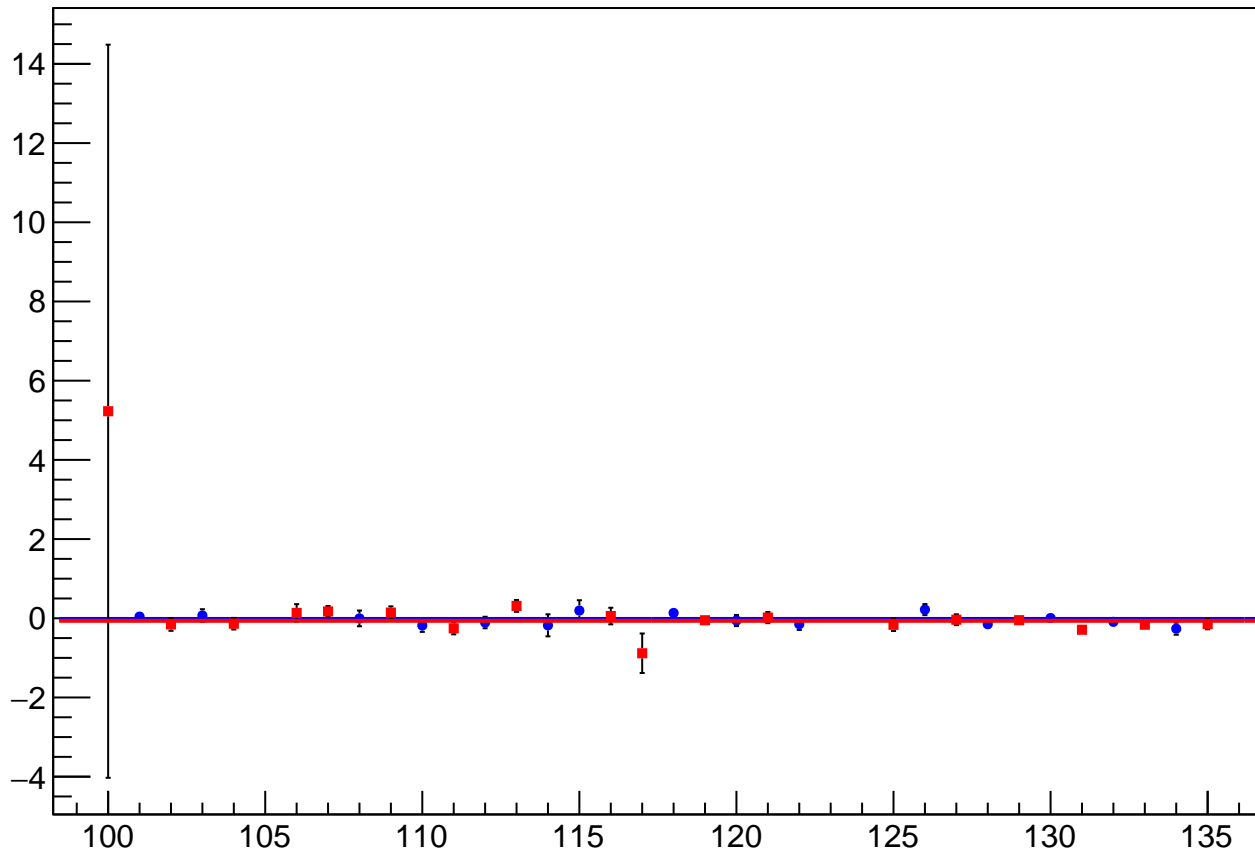
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.175+/-0.056  $\chi^2$ /NDF: 13.0/14

-0.043+/-0.039  $\chi^2$ /NDF: 67.4/32

-0.251+/-0.054  $\chi^2$ /NDF: 24.5/17

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -0.017+/-0.035  $\chi^2$ /NDF: 13.5/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.064+/-0.034  $\chi^2$ /NDF: 22.7/17

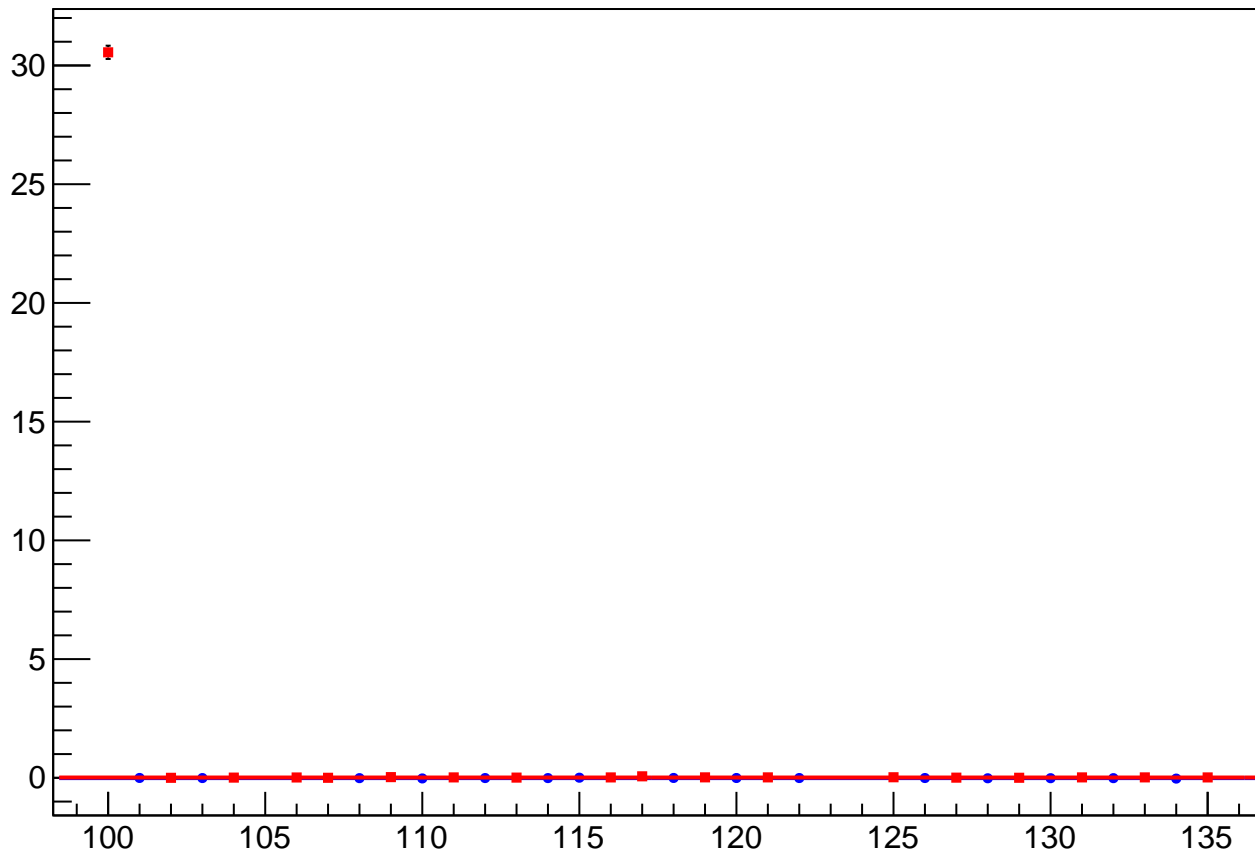
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.017+/-0.035  $\chi^2$ /NDF: 13.5/14

-0.041+/-0.024  $\chi^2$ /NDF: 37.1/32

-0.064+/-0.034  $\chi^2$ /NDF: 22.7/17

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}: 12.6/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.013 \pm 0.002$   $\chi^2/\text{NDF}: 11889.7/17$

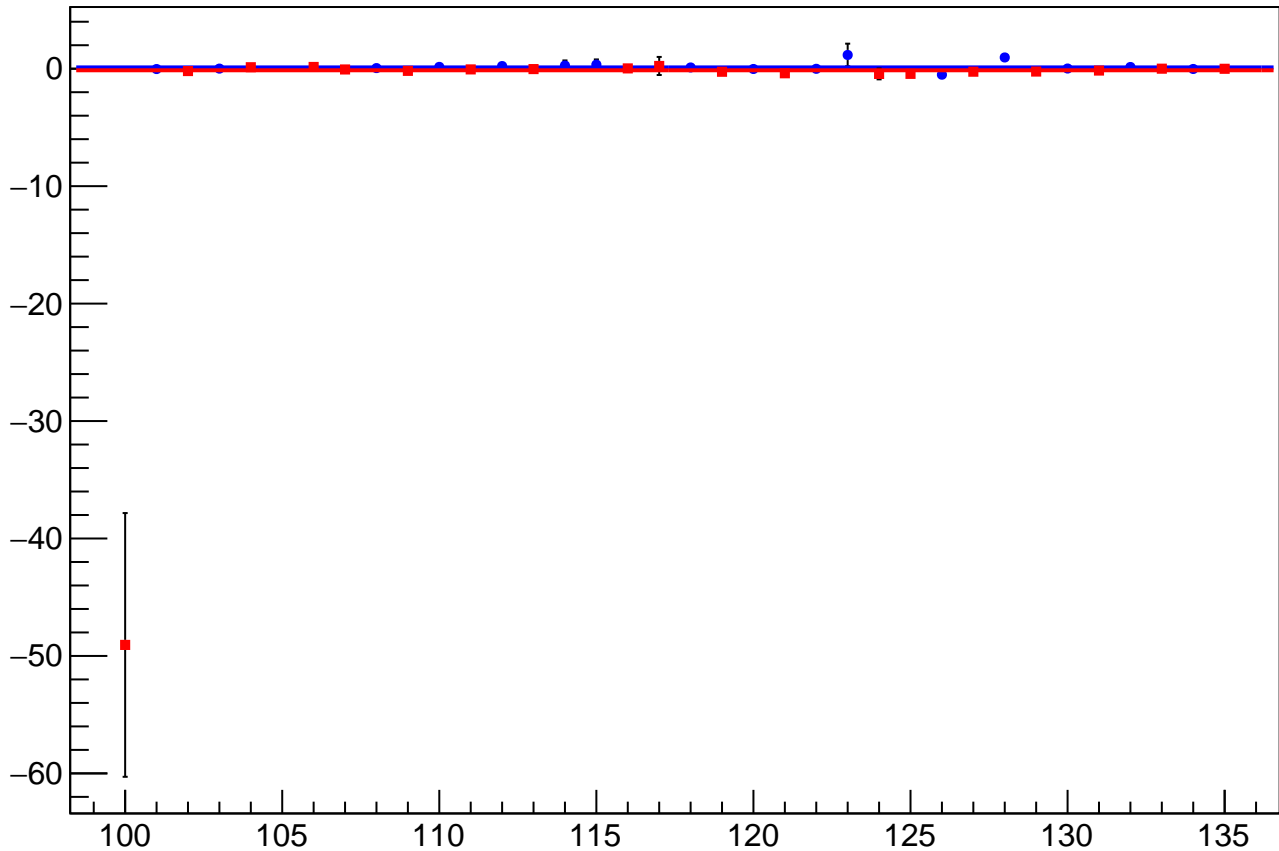
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.012 \pm 0.002$   $\chi^2/\text{NDF}: 12.6/14$

$0.002 \pm 0.001$   $\chi^2/\text{NDF}: 11985.0/32$

$0.013 \pm 0.002$   $\chi^2/\text{NDF}: 11889.7/17$

# reg\_asym\_dsr\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 0.111+/-0.065  $\chi^2$ /NDF: 20.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.133+/-0.064  $\chi^2$ /NDF: 24.8/18

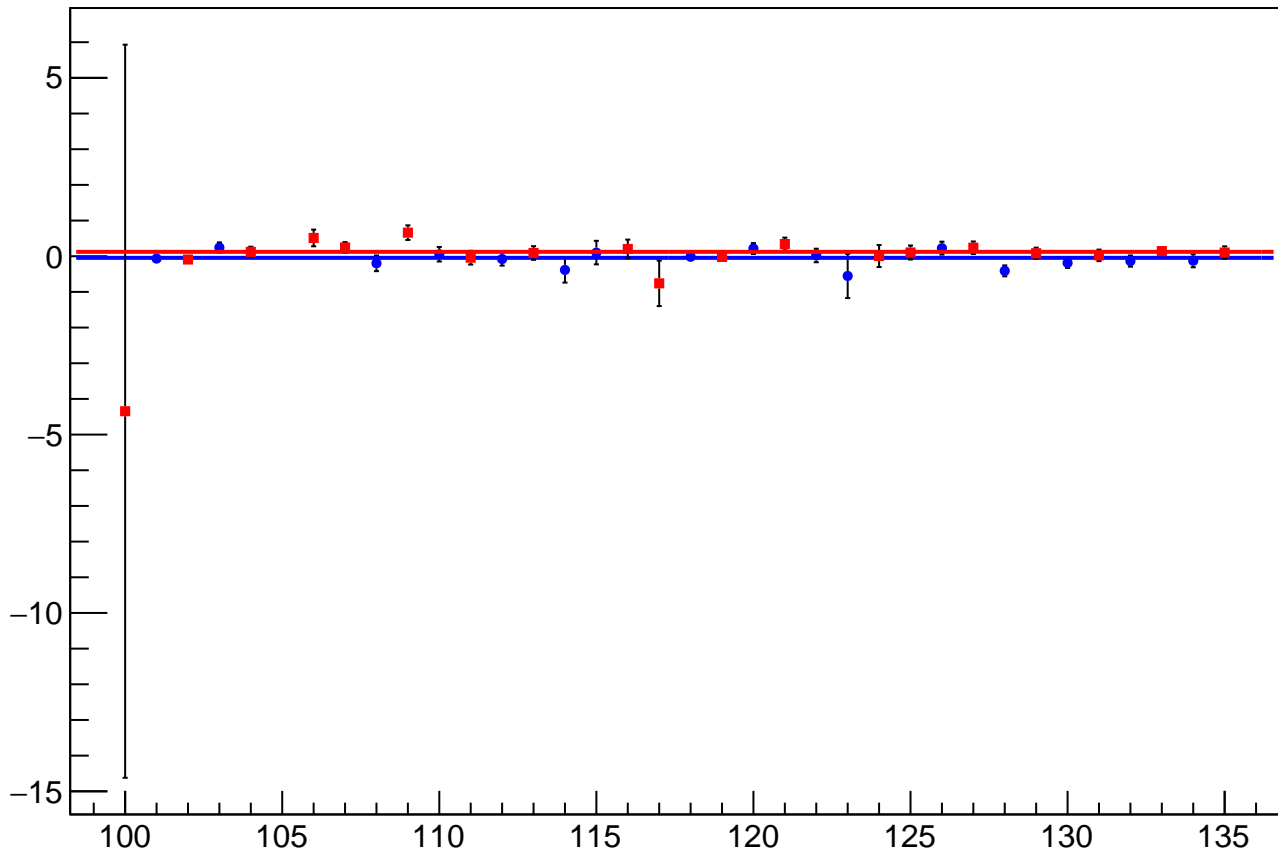
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.111+/-0.065  $\chi^2$ /NDF: 20.5/15

-0.013+/-0.046  $\chi^2$ /NDF: 52.4/34

-0.133+/-0.064  $\chi^2$ /NDF: 24.8/18

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.045+/-0.038  $\chi^2$ /NDF: 19.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.123+/-0.040  $\chi^2$ /NDF: 19.9/18

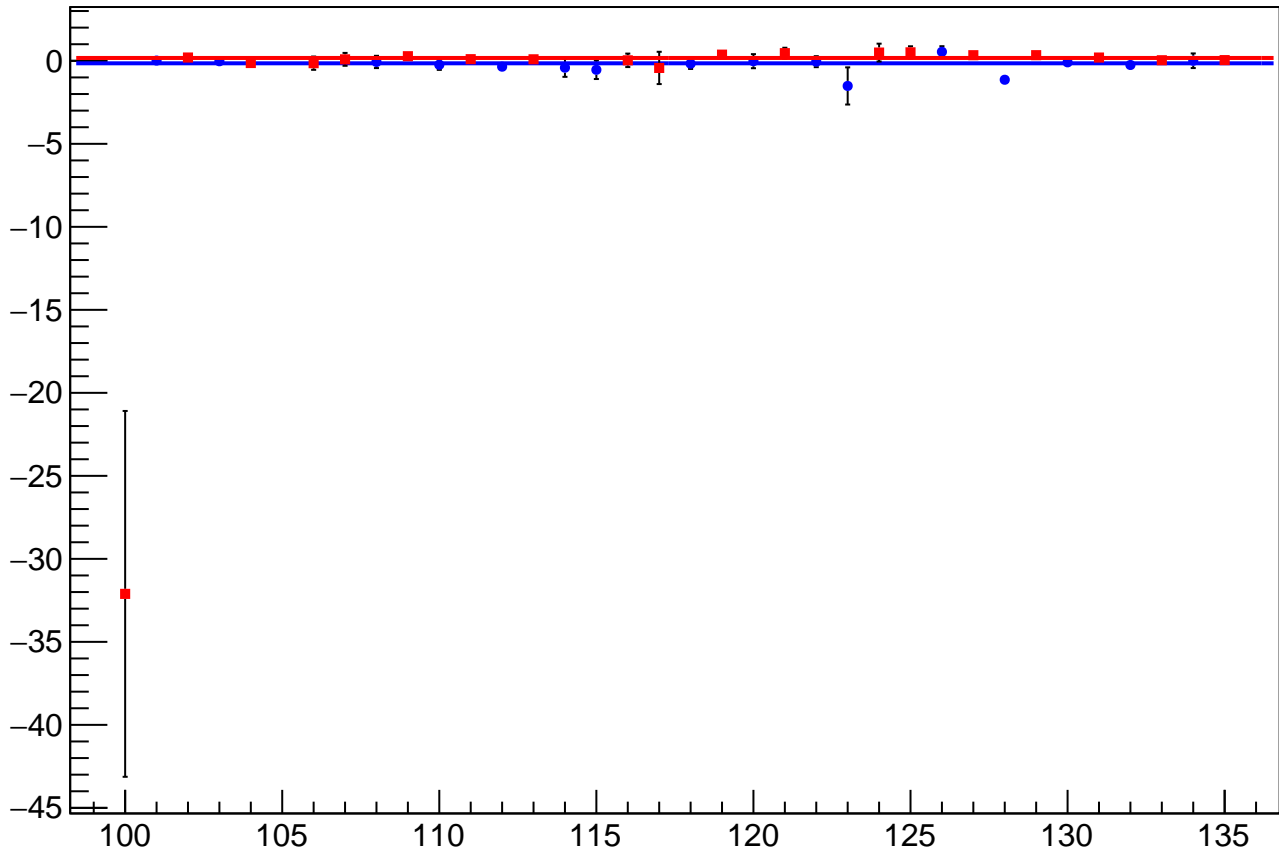
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.045+/-0.038  $\chi^2$ /NDF: 19.2/15

0.036+/-0.027  $\chi^2$ /NDF: 48.5/34

0.123+/-0.040  $\chi^2$ /NDF: 19.9/18

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-0.150 \pm 0.071$   $\chi^2/\text{NDF}: 22.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.172 \pm 0.072$   $\chi^2/\text{NDF}: 15.2/18$

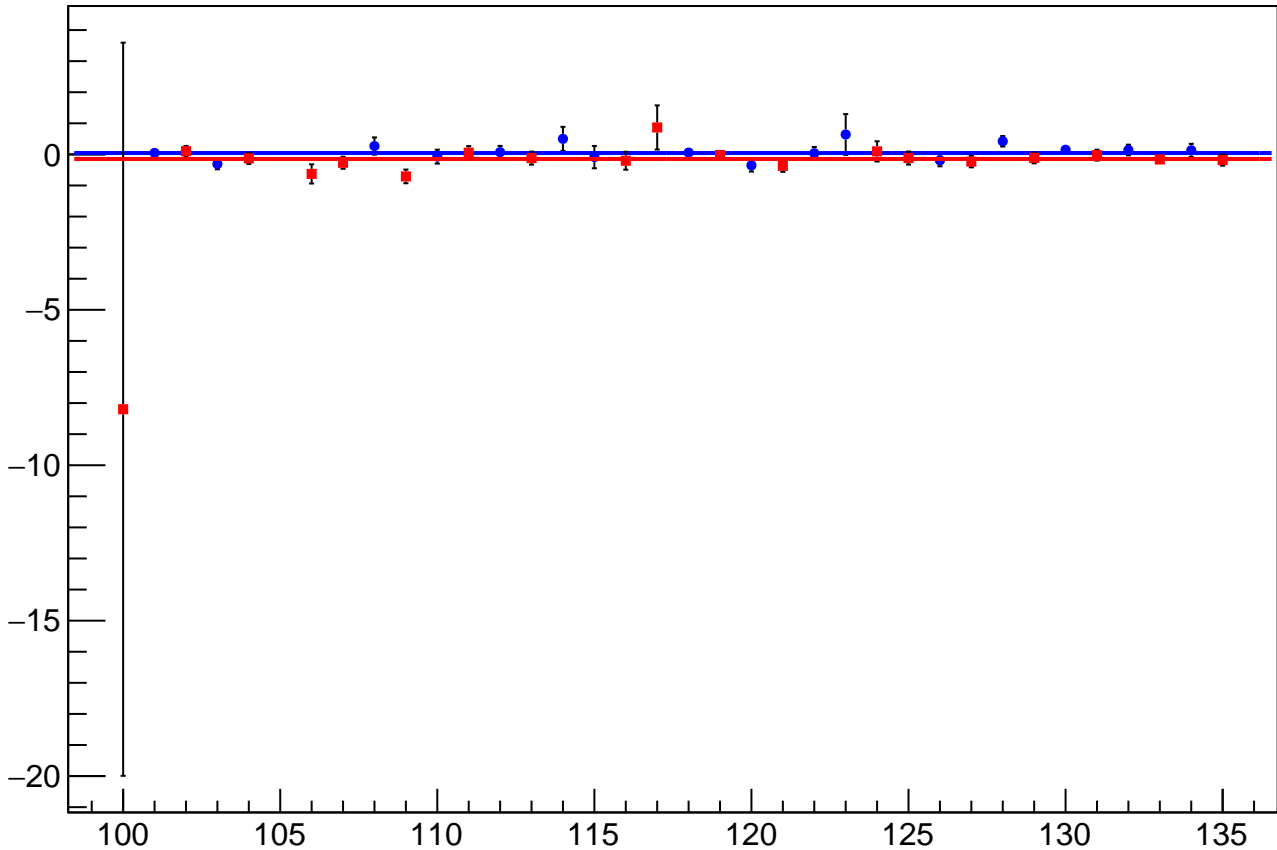
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.150 \pm 0.071$   $\chi^2/\text{NDF}: 22.3/15$

$0.009 \pm 0.050$   $\chi^2/\text{NDF}: 47.7/34$

$0.172 \pm 0.072$   $\chi^2/\text{NDF}: 15.2/18$

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.044 $\pm$ 0.045  $\chi^2$ /NDF: 19.0/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.147 $\pm$ 0.046  $\chi^2$ /NDF: 18.5/18

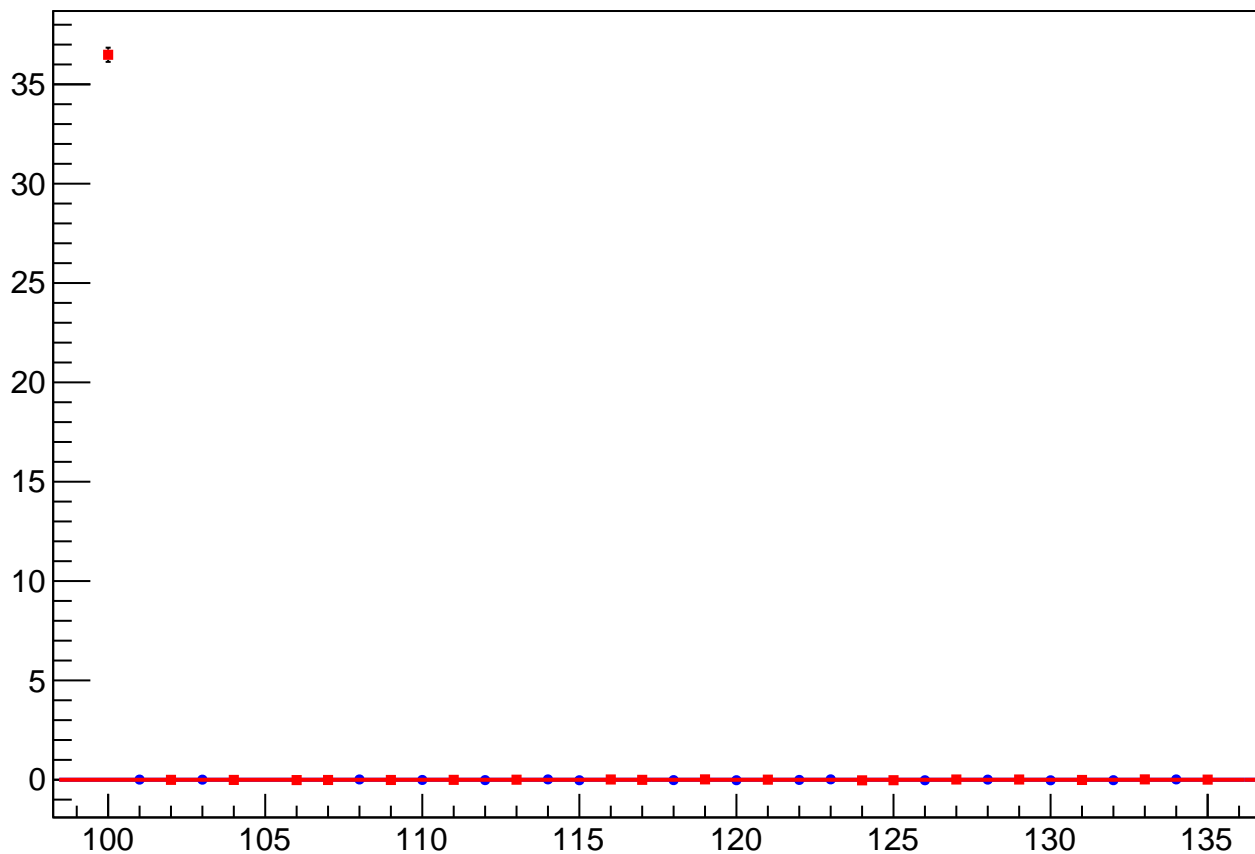
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.044 $\pm$ 0.045  $\chi^2$ /NDF: 19.0/15

-0.049 $\pm$ 0.032  $\chi^2$ /NDF: 46.3/34

-0.147 $\pm$ 0.046  $\chi^2$ /NDF: 18.5/18

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002  $\chi^2$ /NDF: 29.5/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10448.8/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

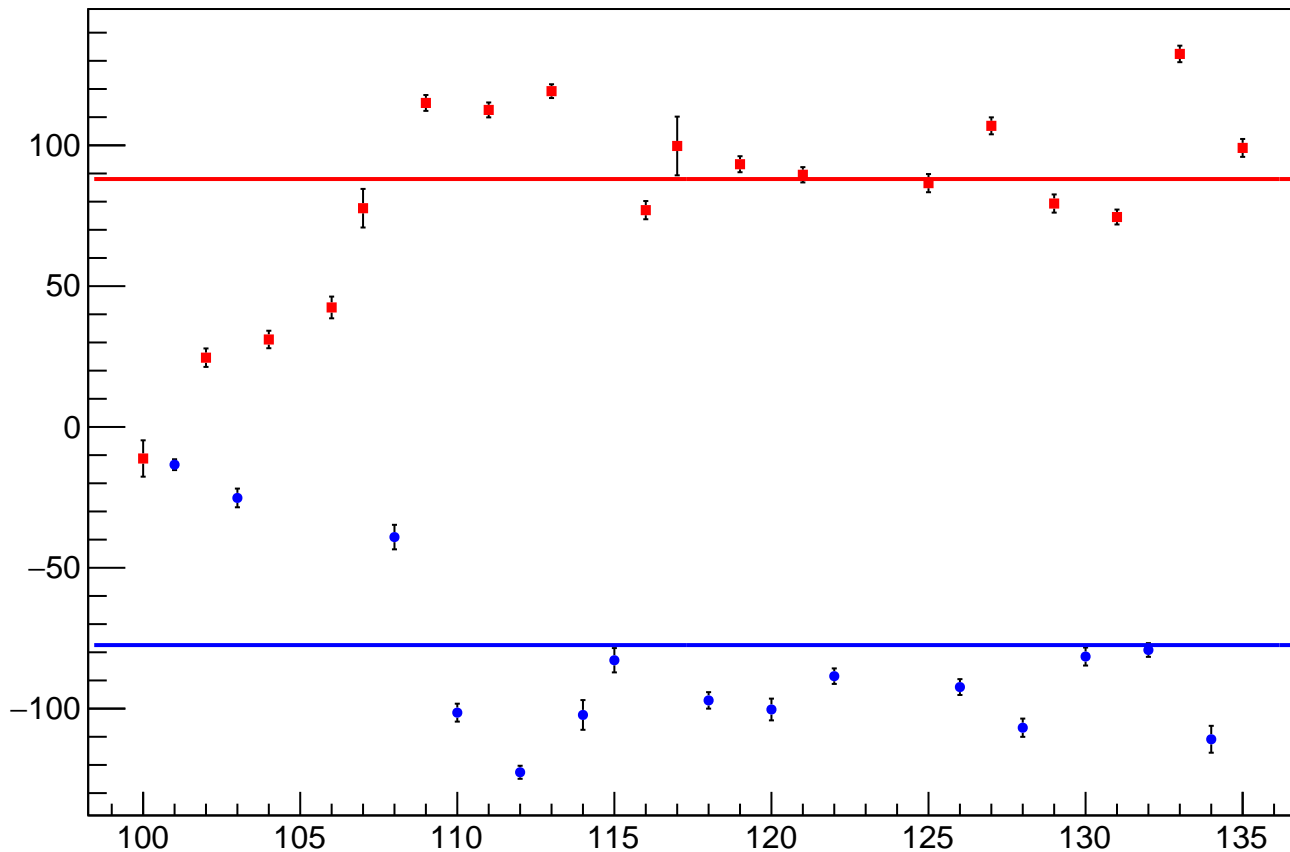
0.000 $\pm$ 0.002  $\chi^2$ /NDF: 29.5/15

-0.000 $\pm$ 0.002  $\chi^2$ /NDF: 10478.5/34

-0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10448.8/18



# reg\_asym\_us\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-77.446 \pm 0.782$   $\chi^2/\text{NDF}: 2152.9/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $88.030 \pm 0.752$   $\chi^2/\text{NDF}: 1761.5/17$

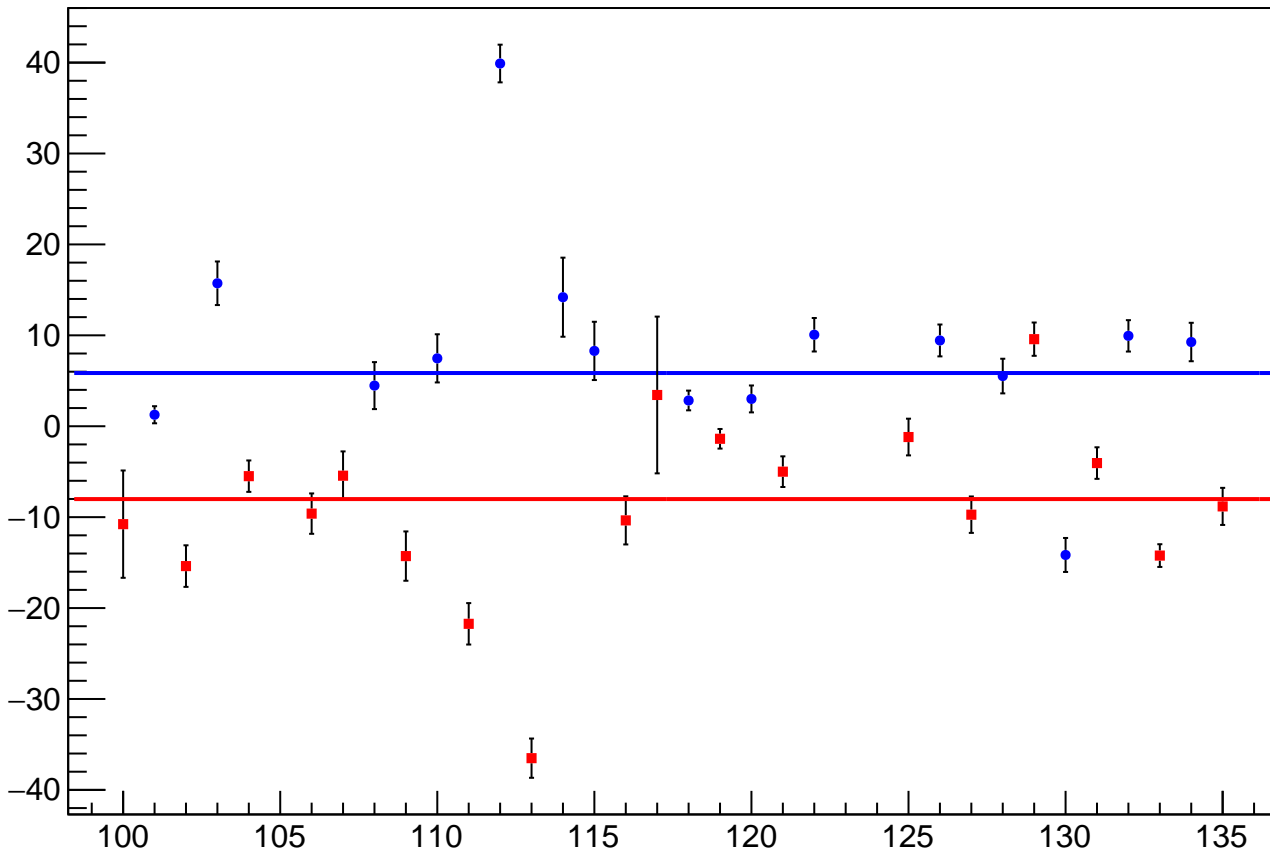
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-77.446 \pm 0.782$   $\chi^2/\text{NDF}: 2152.9/14$

$8.536 \pm 0.542$   $\chi^2/\text{NDF}: 27187.7/32$

$88.030 \pm 0.752$   $\chi^2/\text{NDF}: 1761.5/17$

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.854+/-0.446  $\chi^2$ /NDF: 459.1/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -8.012+/-0.456  $\chi^2$ /NDF: 408.1/17

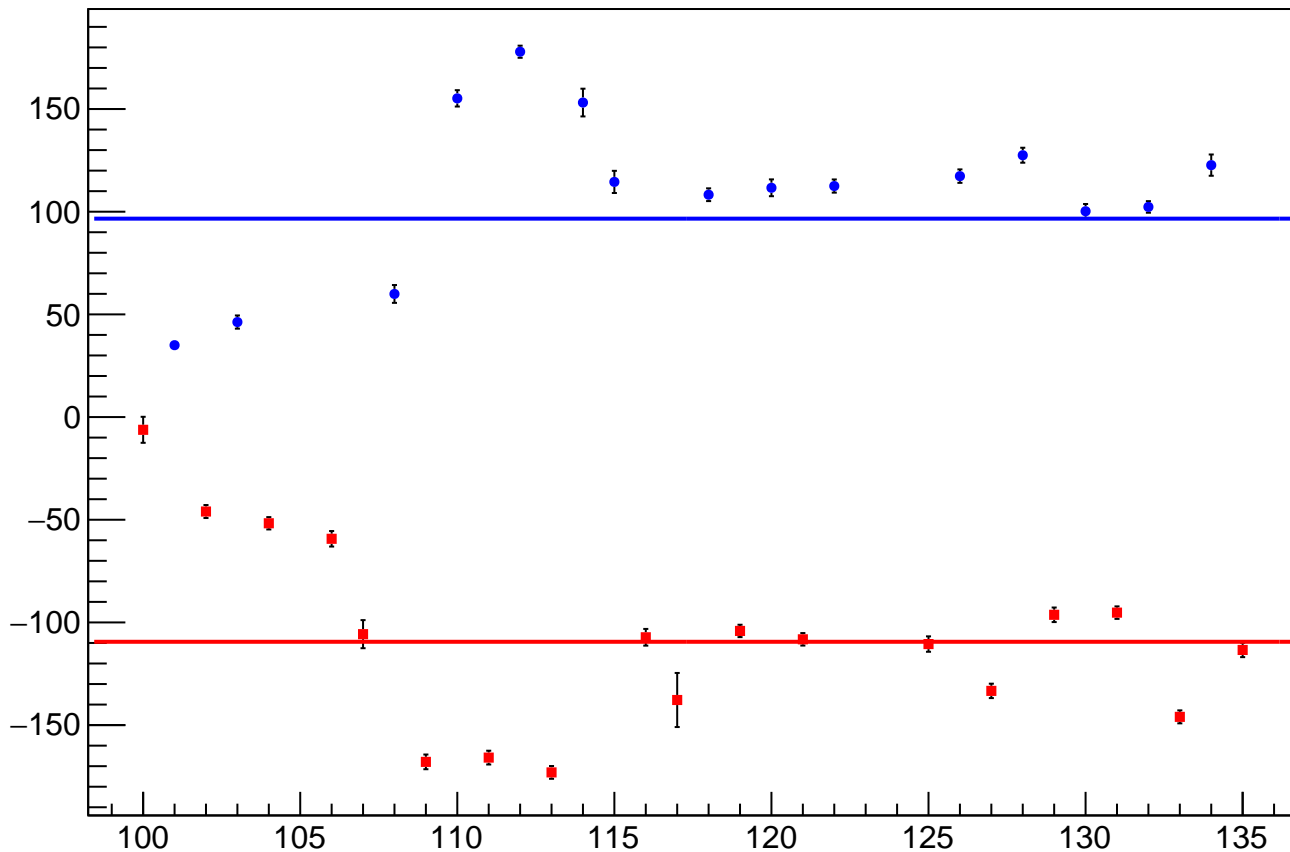
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

5.854+/-0.446  $\chi^2$ /NDF: 459.1/14

-0.928+/-0.319  $\chi^2$ /NDF: 1340.0/32

-8.012+/-0.456  $\chi^2$ /NDF: 408.1/17

reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 96.619+/-0.861  $\chi^2$ /NDF: 2674.4/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -109.423+/-0.844  $\chi^2$ /NDF: 2406.1/17

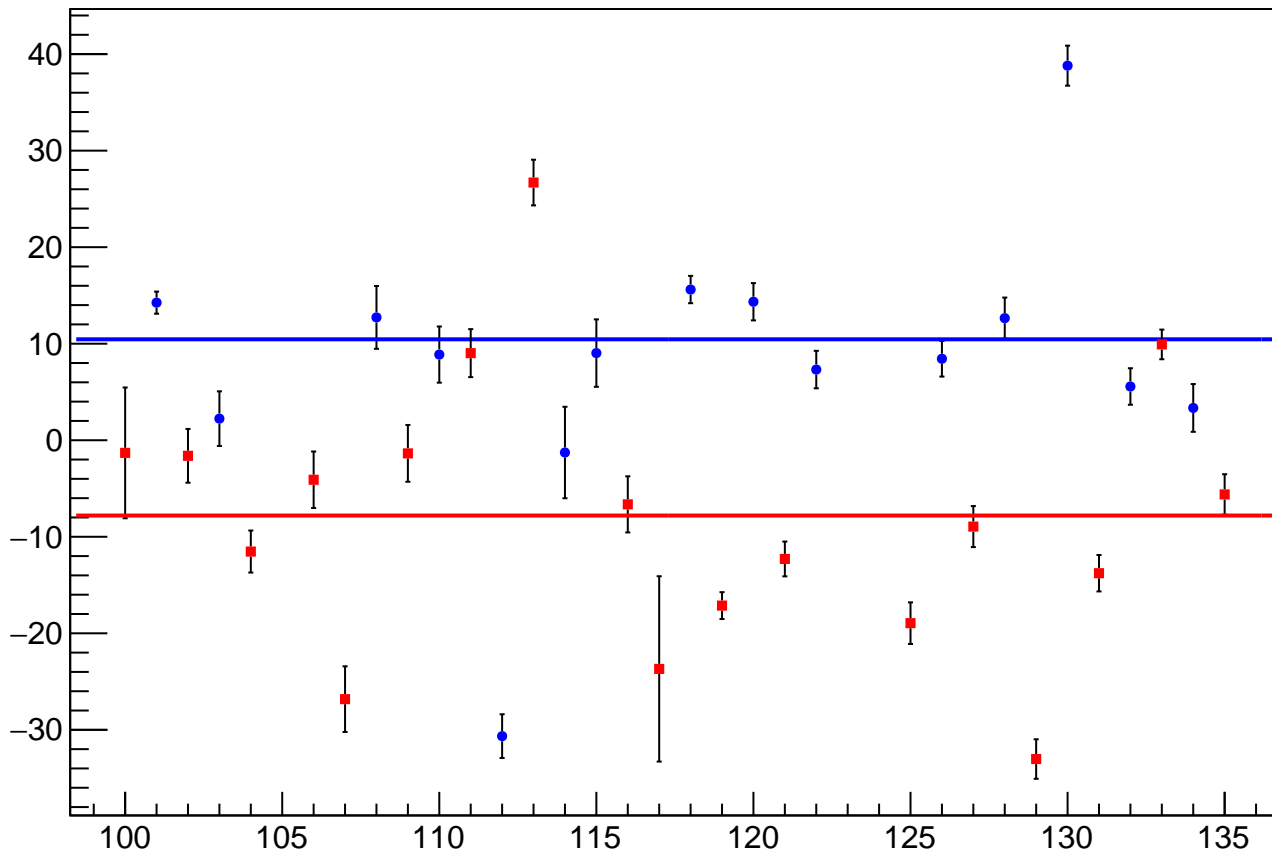
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

96.619+/-0.861  $\chi^2$ /NDF: 2674.4/14

-8.455+/-0.603  $\chi^2$ /NDF: 34273.7/32

-109.423+/-0.844  $\chi^2$ /NDF: 2406.1/17

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.455+/-0.524  $\chi^2$ /NDF: 579.7/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.801+/-0.528  $\chi^2$ /NDF: 682.1/17

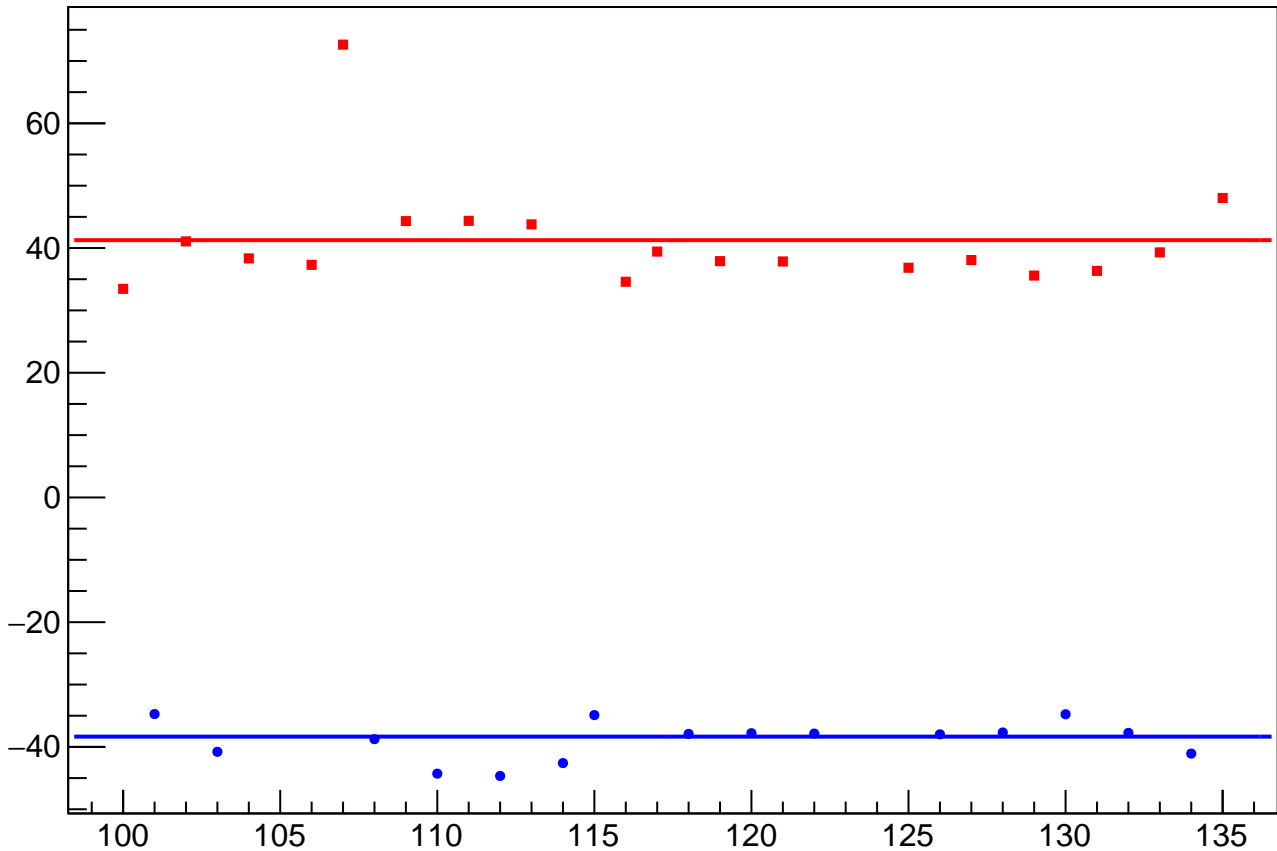
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

10.455+/-0.524  $\chi^2$ /NDF: 579.7/14

1.404+/-0.372  $\chi^2$ /NDF: 1863.8/32

-7.801+/-0.528  $\chi^2$ /NDF: 682.1/17

# reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-38.353 \pm 0.031$   $\chi^2/\text{NDF}: 8557.1/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $41.265 \pm 0.029$   $\chi^2/\text{NDF}: 58399.2/17$

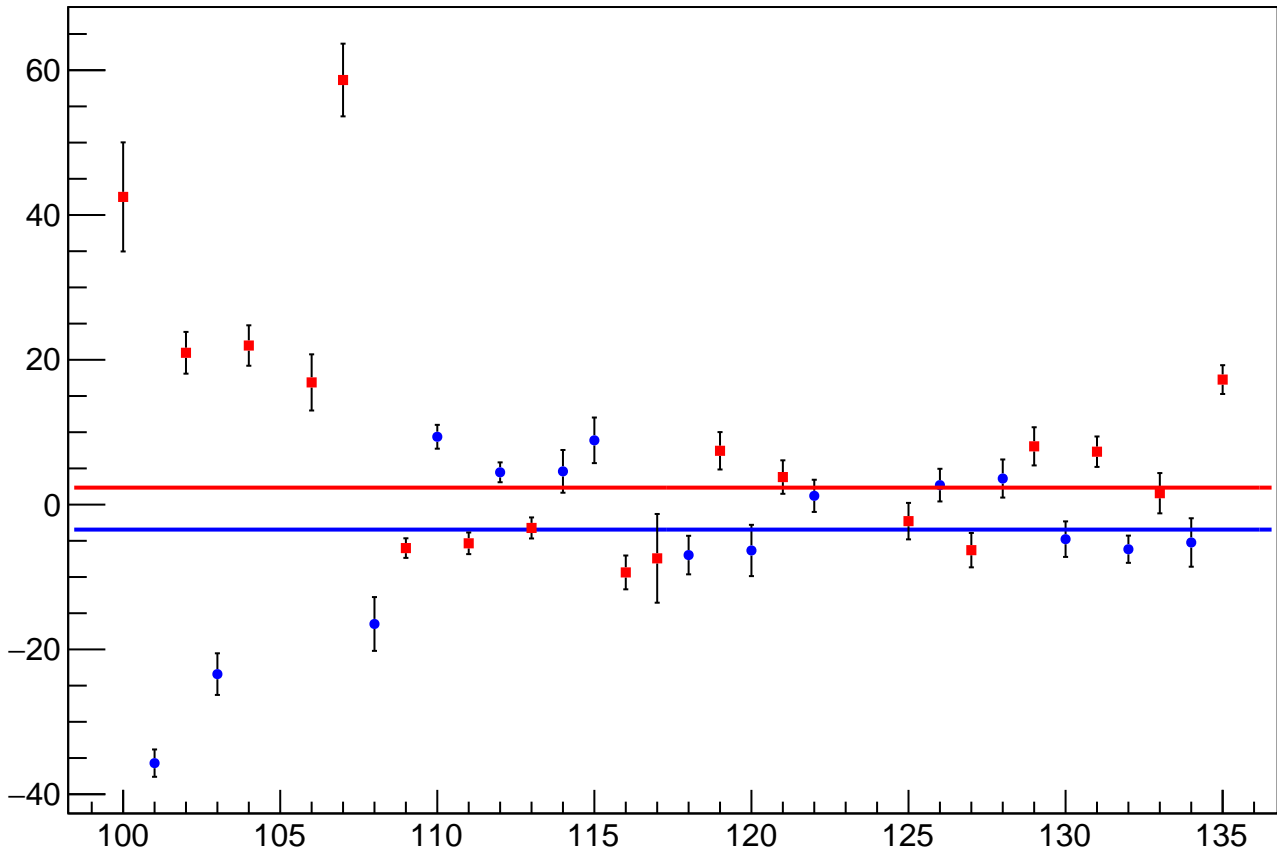
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-38.353 \pm 0.031$   $\chi^2/\text{NDF}: 8557.1/14$

$4.466 \pm 0.021$   $\chi^2/\text{NDF}: 3523231.4/32$

$41.265 \pm 0.029$   $\chi^2/\text{NDF}: 58399.2/17$

# reg\_asym\_us\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-3.450 \pm 0.588$   $\chi^2/\text{NDF}: 493.1/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $2.347 \pm 0.537$   $\chi^2/\text{NDF}: 453.8/17$

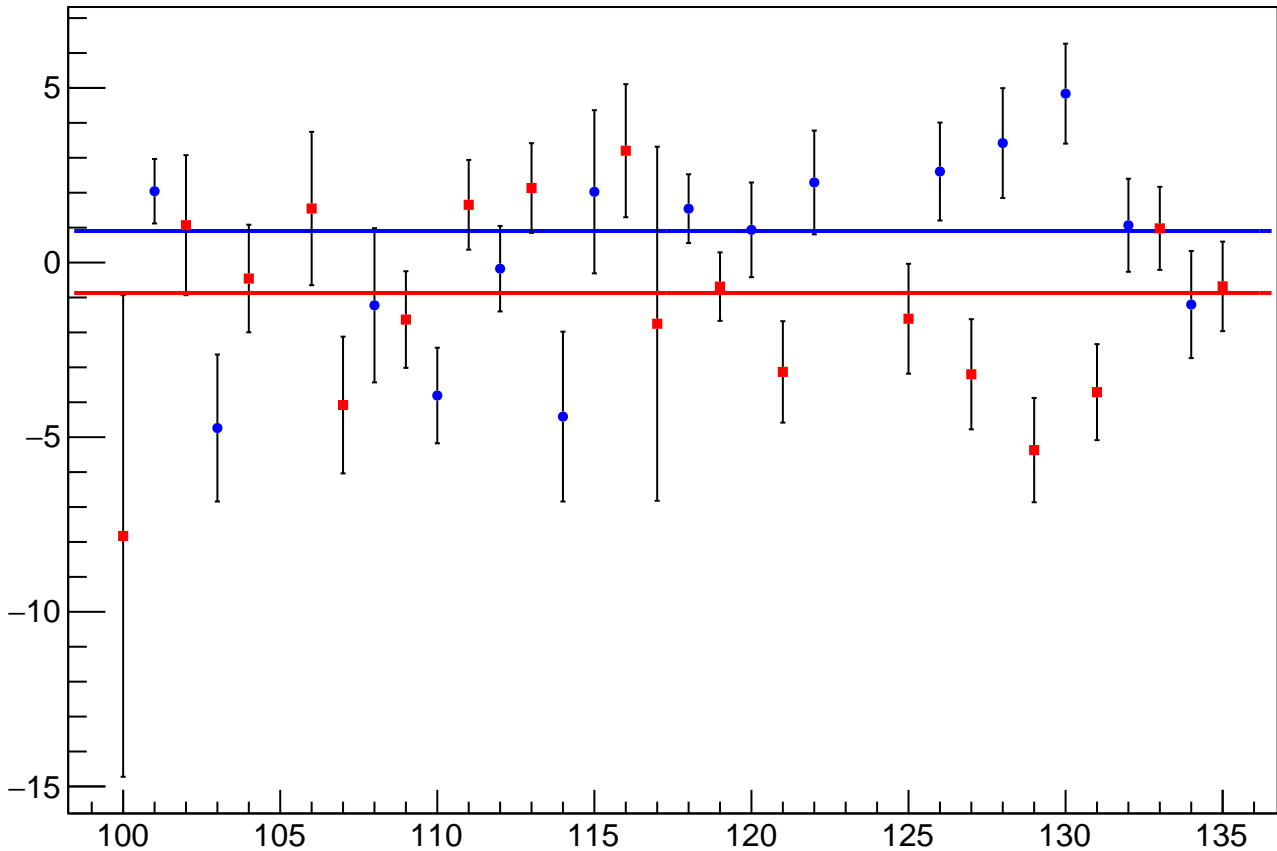
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-3.450 \pm 0.588$   $\chi^2/\text{NDF}: 493.1/14$

$-0.287 \pm 0.396$   $\chi^2/\text{NDF}: 999.9/32$

$2.347 \pm 0.537$   $\chi^2/\text{NDF}: 453.8/17$

# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.904 \pm 0.363$   $\chi^2/\text{NDF}: 42.1/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.870 \pm 0.358$   $\chi^2/\text{NDF}: 40.8/17$

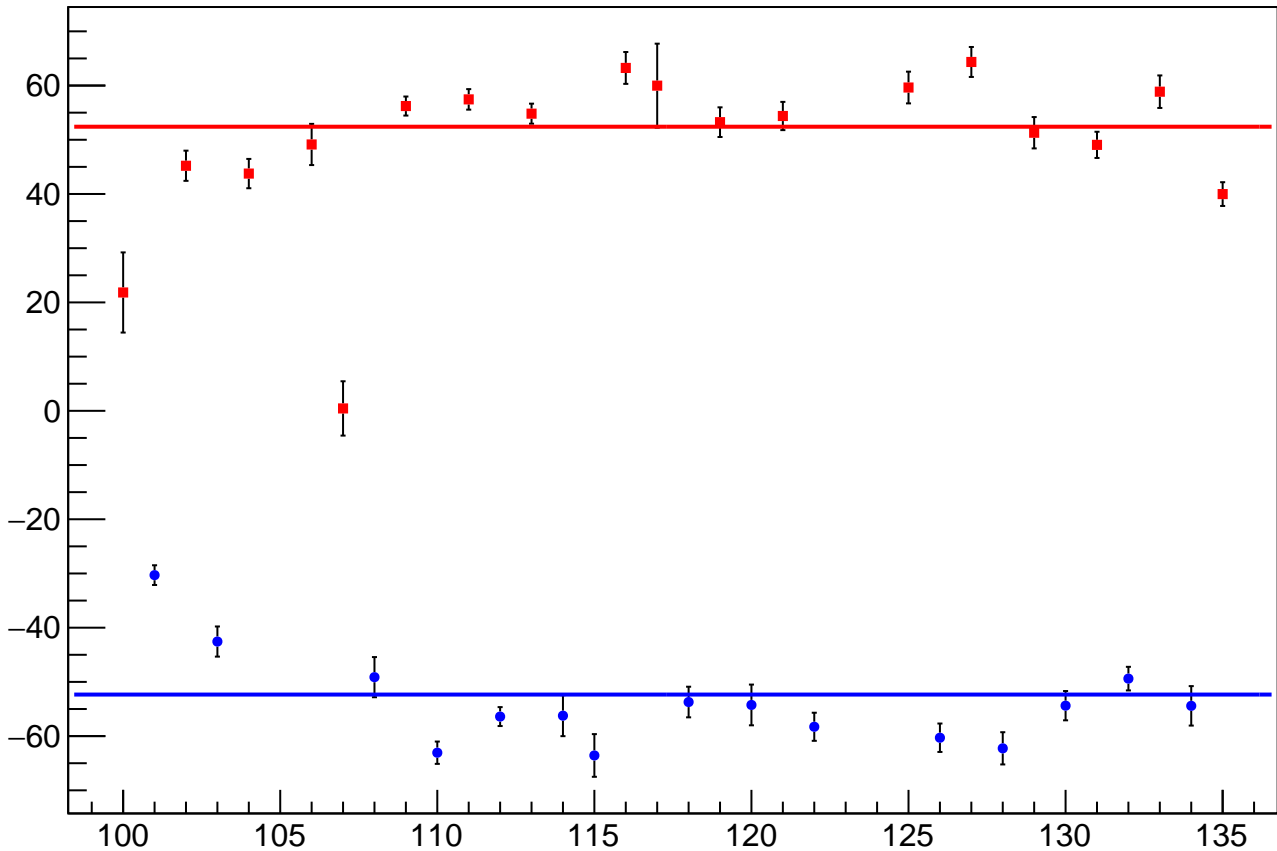
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$0.904 \pm 0.363$   $\chi^2/\text{NDF}: 42.1/14$

$0.003 \pm 0.255$   $\chi^2/\text{NDF}: 95.0/32$

$-0.870 \pm 0.358$   $\chi^2/\text{NDF}: 40.8/17$

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-52.336 \pm 0.670$   $\chi^2/\text{NDF}: 230.4/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $52.408 \pm 0.625$   $\chi^2/\text{NDF}: 234.7/17$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

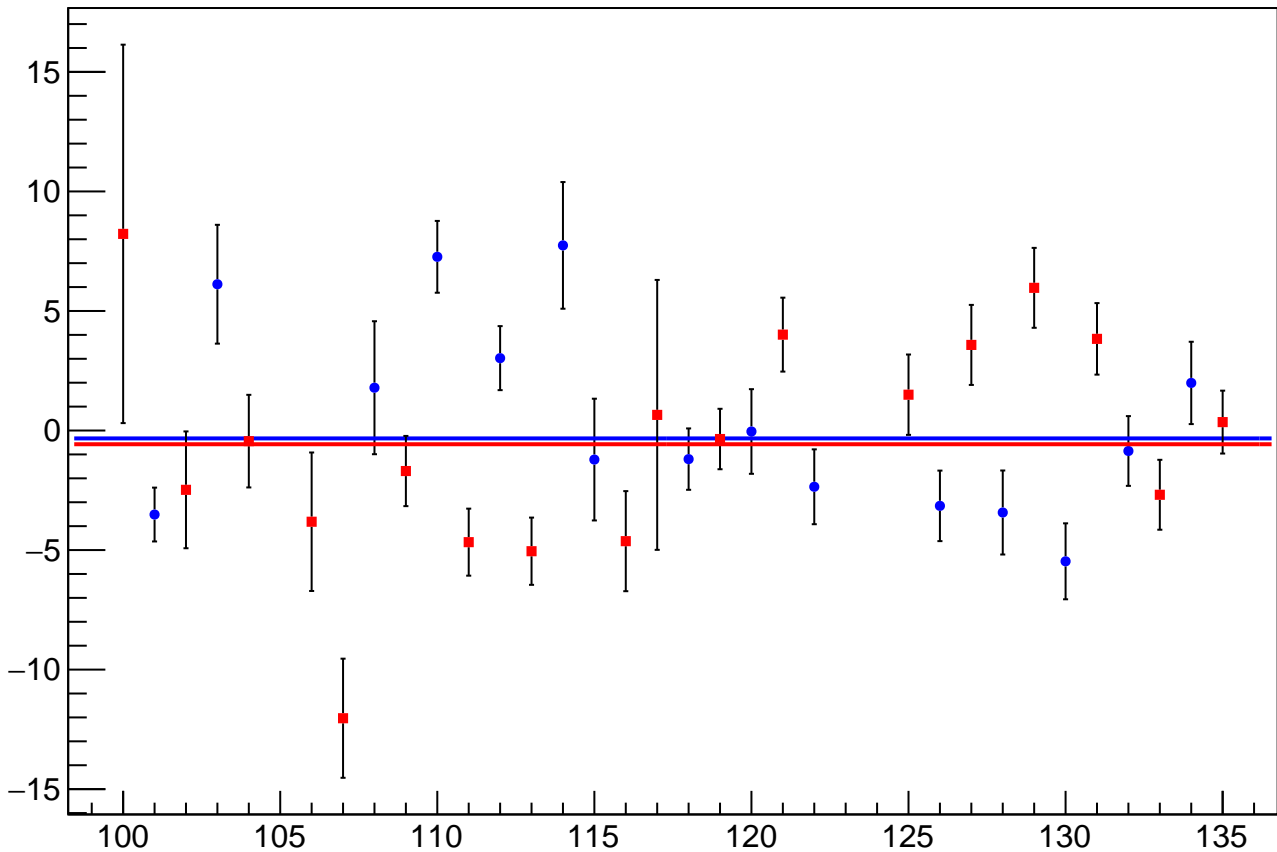
$-52.336 \pm 0.670$   $\chi^2/\text{NDF}: 230.4/14$

$3.649 \pm 0.457$   $\chi^2/\text{NDF}: 13544.9/32$

$52.408 \pm 0.625$   $\chi^2/\text{NDF}: 234.7/17$



# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.330 \pm 0.419$   $\chi^2/\text{NDF}: 77.9/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.574 \pm 0.406$   $\chi^2/\text{NDF}: 90.4/17$

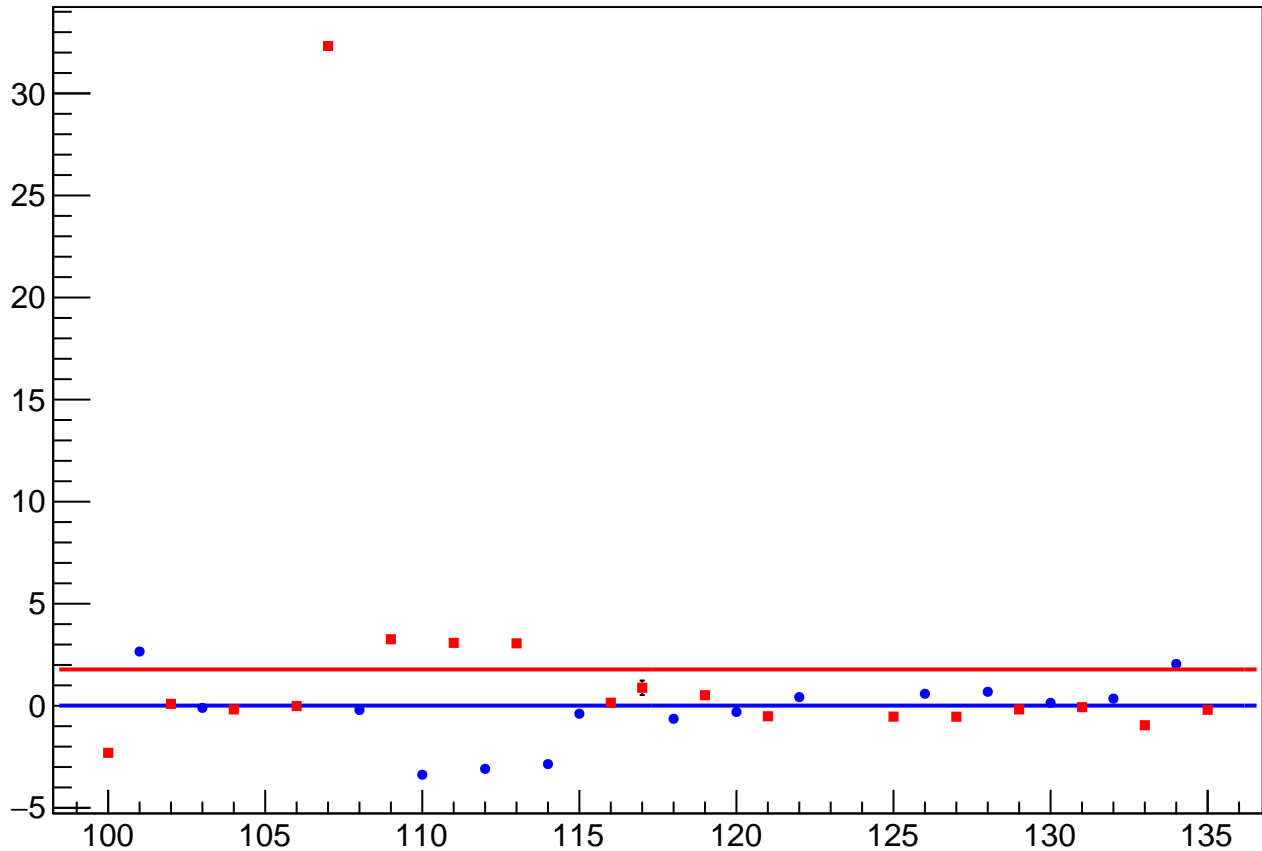
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.330 \pm 0.419$   $\chi^2/\text{NDF}: 77.9/14$

$-0.456 \pm 0.291$   $\chi^2/\text{NDF}: 168.5/32$

$-0.574 \pm 0.406$   $\chi^2/\text{NDF}: 90.4/17$

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.010+/-0.025  $\chi^2$ /NDF: 5160.0/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.780+/-0.022  $\chi^2$ /NDF: 77160.8/17

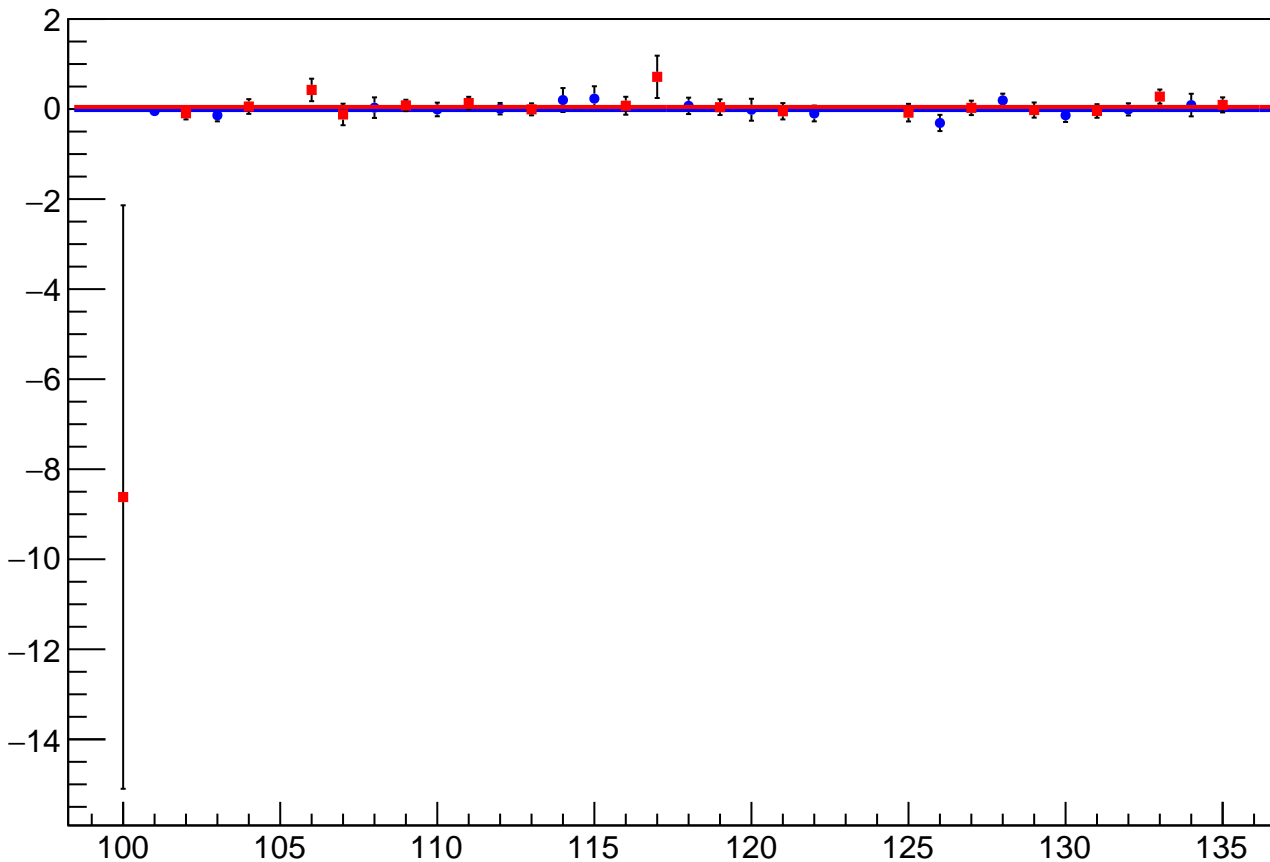
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.010+/-0.025  $\chi^2$ /NDF: 5160.0/14

0.995+/-0.017  $\chi^2$ /NDF: 85069.5/32

1.780+/-0.022  $\chi^2$ /NDF: 77160.8/17

reg\_asym\_ds\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-0.022 \pm 0.042$   $\chi^2/\text{NDF}$ : 8.3/14

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.048 \pm 0.041$   $\chi^2/\text{NDF}$ : 11.7/17

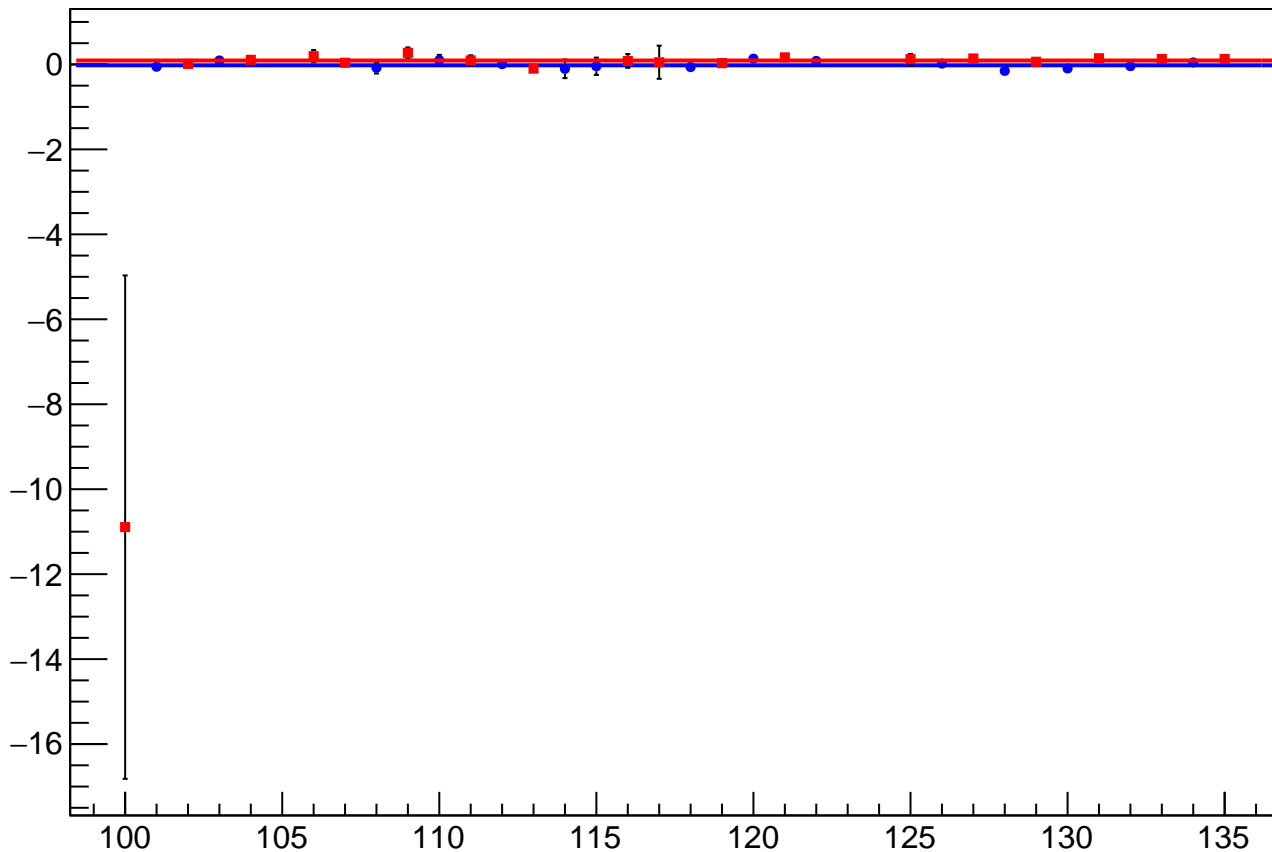
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.022 \pm 0.042$   $\chi^2/\text{NDF}$ : 8.3/14

$0.013 \pm 0.029$   $\chi^2/\text{NDF}$ : 21.5/32

$0.048 \pm 0.041$   $\chi^2/\text{NDF}$ : 11.7/17

reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.021+/-0.024  $\chi^2$ /NDF: 10.2/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.092+/-0.025  $\chi^2$ /NDF: 12.1/17

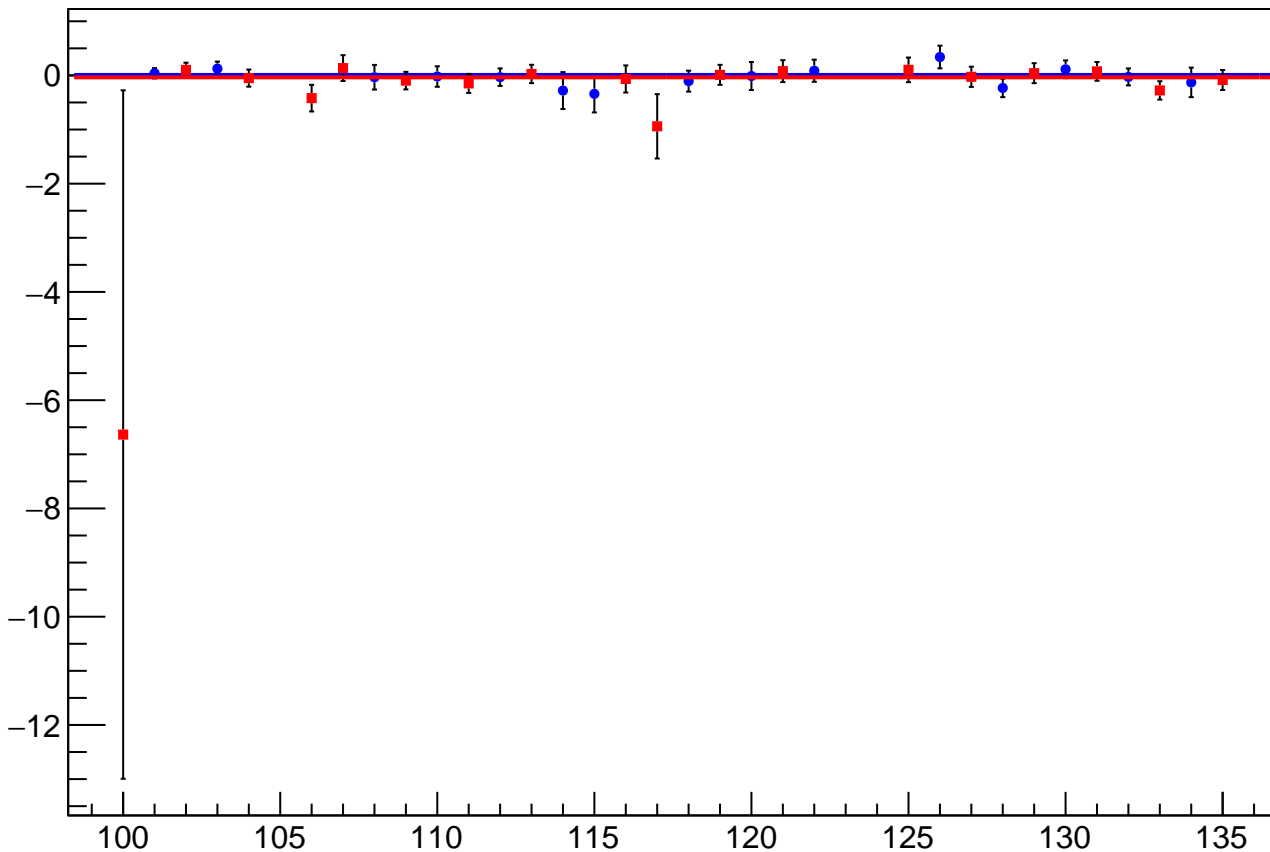
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.021+/-0.024  $\chi^2$ /NDF: 10.2/14

0.034+/-0.017  $\chi^2$ /NDF: 32.9/32

0.092+/-0.025  $\chi^2$ /NDF: 12.1/17

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.008+/-0.045  $\chi^2$ /NDF: 8.5/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.035+/-0.045  $\chi^2$ /NDF: 11.6/17

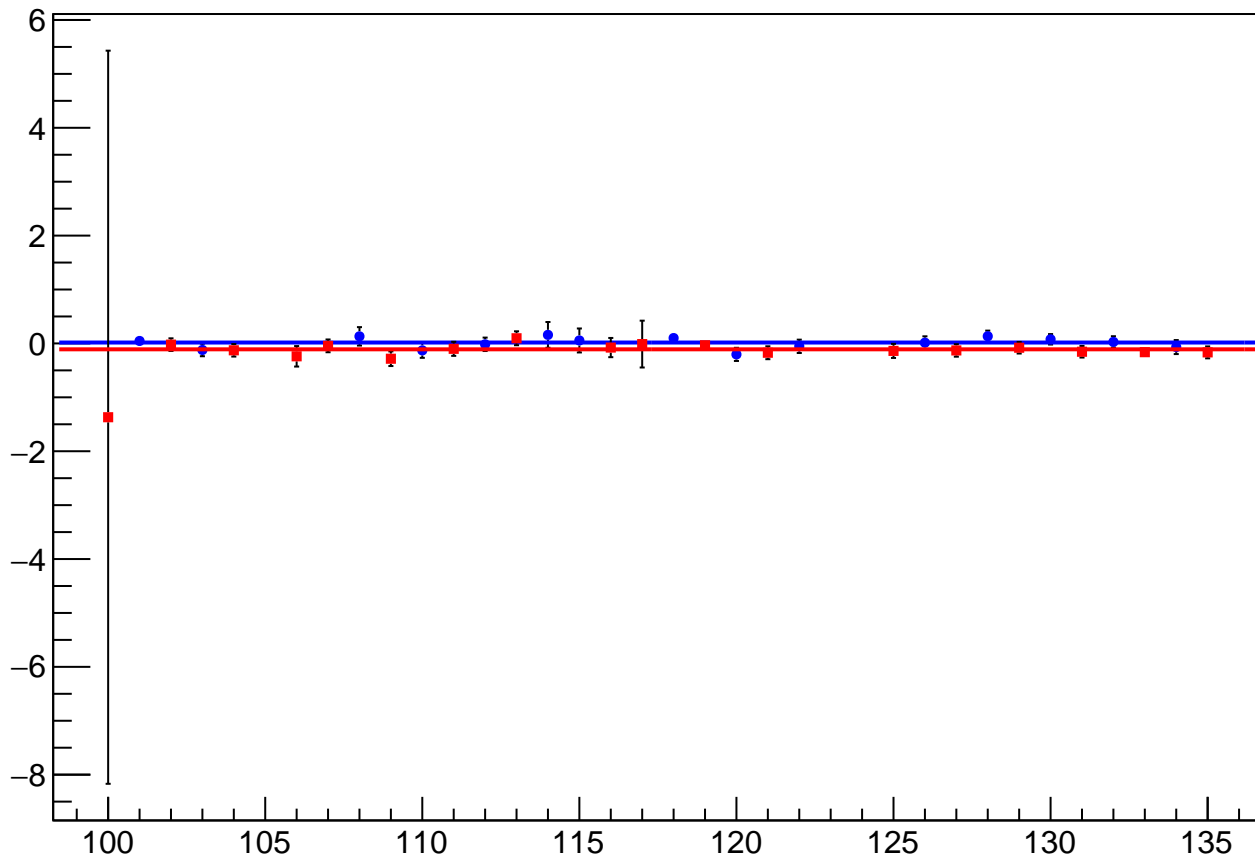
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.008+/-0.045  $\chi^2$ /NDF: 8.5/14

-0.014+/-0.032  $\chi^2$ /NDF: 20.5/32

-0.035+/-0.045  $\chi^2$ /NDF: 11.6/17

# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.017+/-0.029  $\chi^2$ /NDF: 10.2/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.110+/-0.029  $\chi^2$ /NDF: 7.7/17

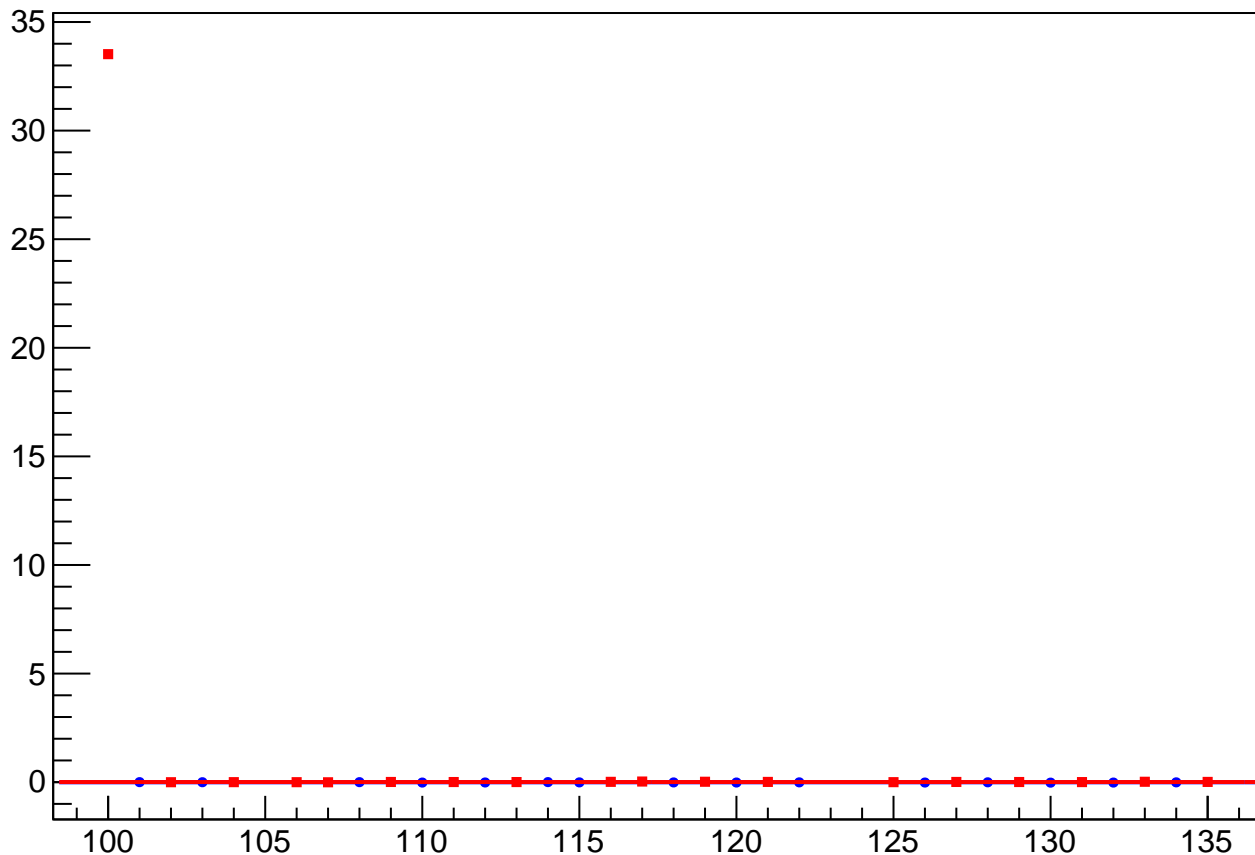
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.017+/-0.029  $\chi^2$ /NDF: 10.2/14

-0.046+/-0.020  $\chi^2$ /NDF: 27.6/32

-0.110+/-0.029  $\chi^2$ /NDF: 7.7/17

# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.006+/-0.002  $\chi^2$ /NDF: 21.4/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.006+/-0.001  $\chi^2$ /NDF: 26508.8/17

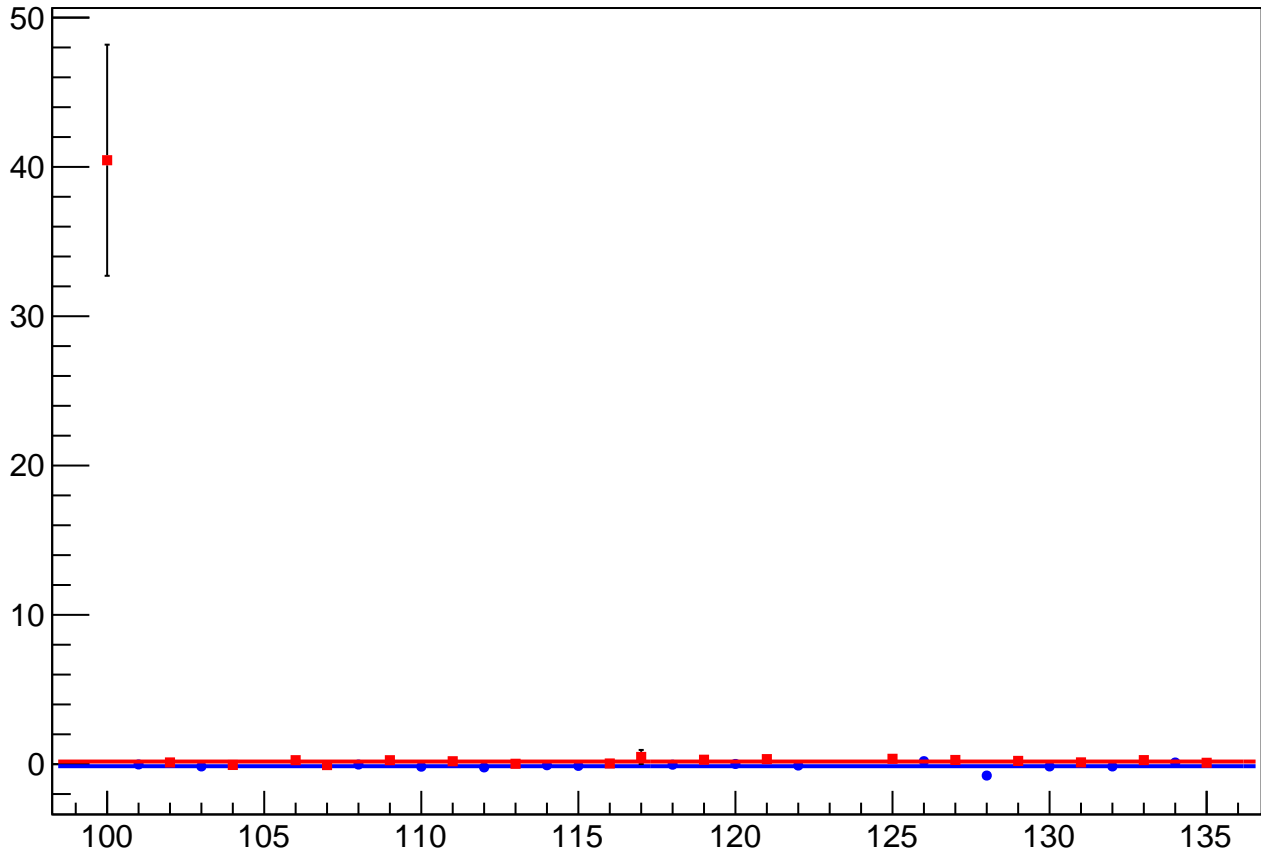
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.006+/-0.002  $\chi^2$ /NDF: 21.4/14

0.001+/-0.001  $\chi^2$ /NDF: 26560.3/32

0.006+/-0.001  $\chi^2$ /NDF: 26508.8/17

# reg\_asym\_ds\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-0.137 \pm 0.042$   $\chi^2/\text{NDF}: 24.9/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.176 \pm 0.041$   $\chi^2/\text{NDF}: 36.4/17$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

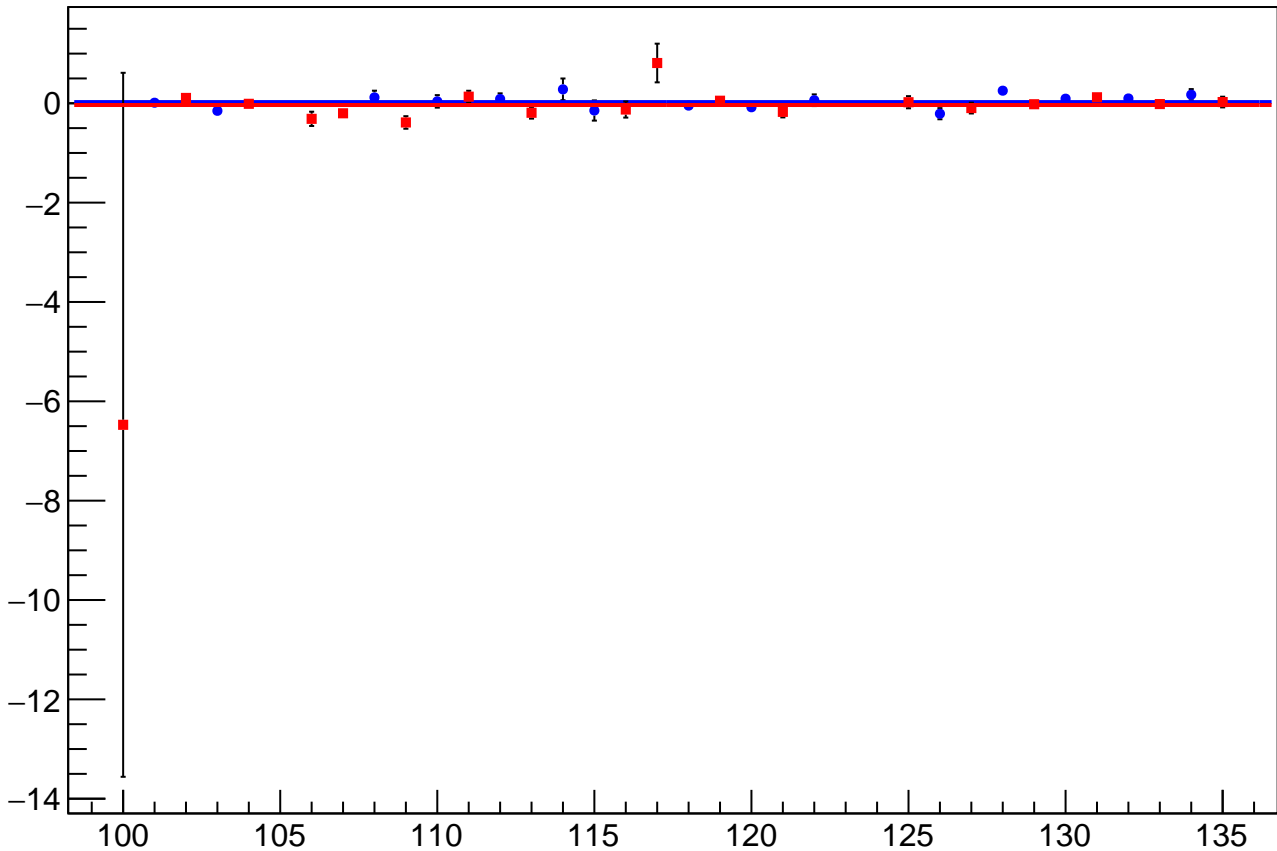
$-0.137 \pm 0.042$   $\chi^2/\text{NDF}: 24.9/14$

$0.024 \pm 0.029$   $\chi^2/\text{NDF}: 90.5/32$

$0.176 \pm 0.041$   $\chi^2/\text{NDF}: 36.4/17$



# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.024+/-0.024  $\chi^2$ /NDF: 21.8/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.035+/-0.025  $\chi^2$ /NDF: 33.2/17

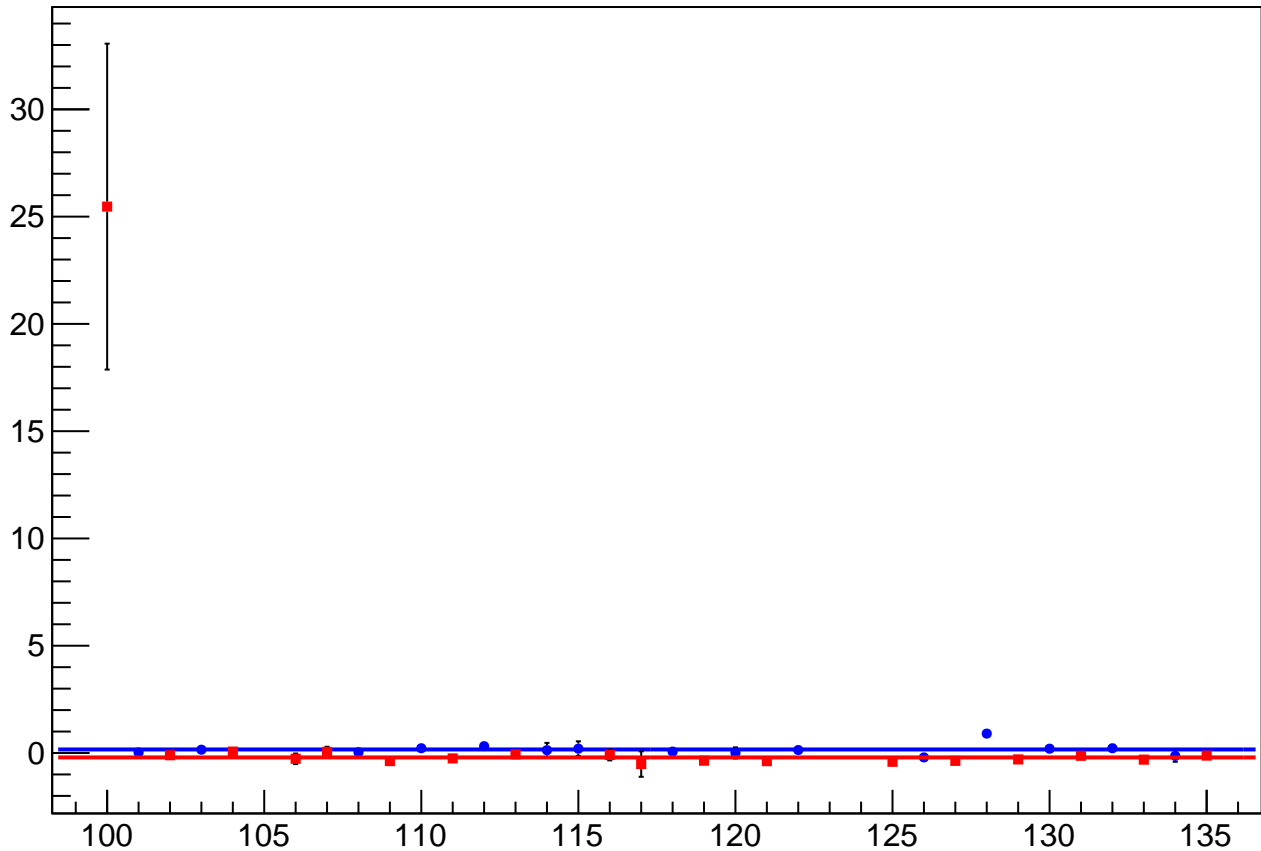
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.024+/-0.024  $\chi^2$ /NDF: 21.8/14

-0.005+/-0.017  $\chi^2$ /NDF: 57.8/32

-0.035+/-0.025  $\chi^2$ /NDF: 33.2/17

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.165+/-0.045  $\chi^2$ /NDF: 27.4/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.207+/-0.045  $\chi^2$ /NDF: 22.6/17

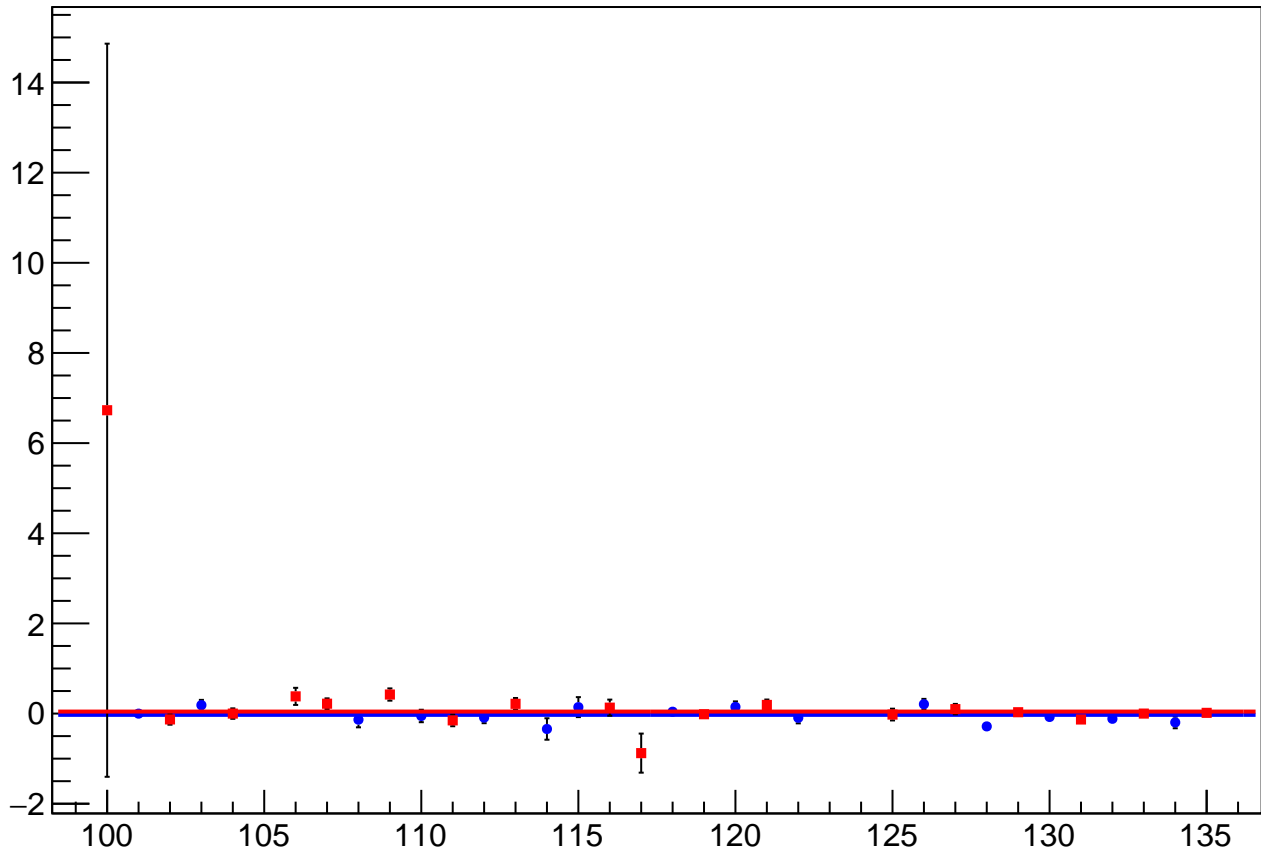
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.165+/-0.045  $\chi^2$ /NDF: 27.4/14

-0.021+/-0.032  $\chi^2$ /NDF: 83.5/32

-0.207+/-0.045  $\chi^2$ /NDF: 22.6/17

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.028 \pm 0.028$   $\chi^2/\text{NDF}: 22.3/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.044 \pm 0.029$   $\chi^2/\text{NDF}: 30.5/17$

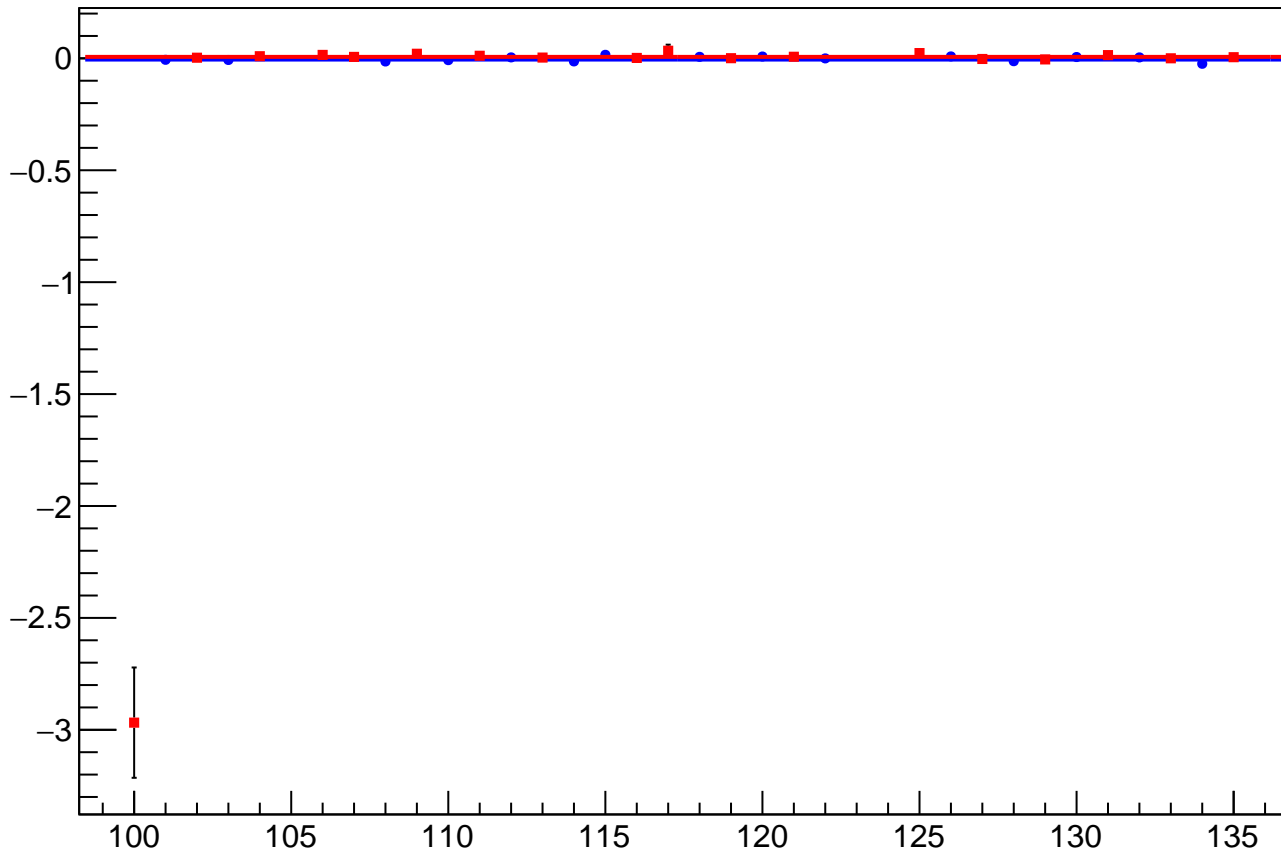
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.028 \pm 0.028$   $\chi^2/\text{NDF}: 22.3/14$

$0.008 \pm 0.020$   $\chi^2/\text{NDF}: 56.0/32$

$0.044 \pm 0.029$   $\chi^2/\text{NDF}: 30.5/17$

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.005 \pm 0.002$   $\chi^2/\text{NDF}: 25.9/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.007 \pm 0.001$   $\chi^2/\text{NDF}: 164.3/17$

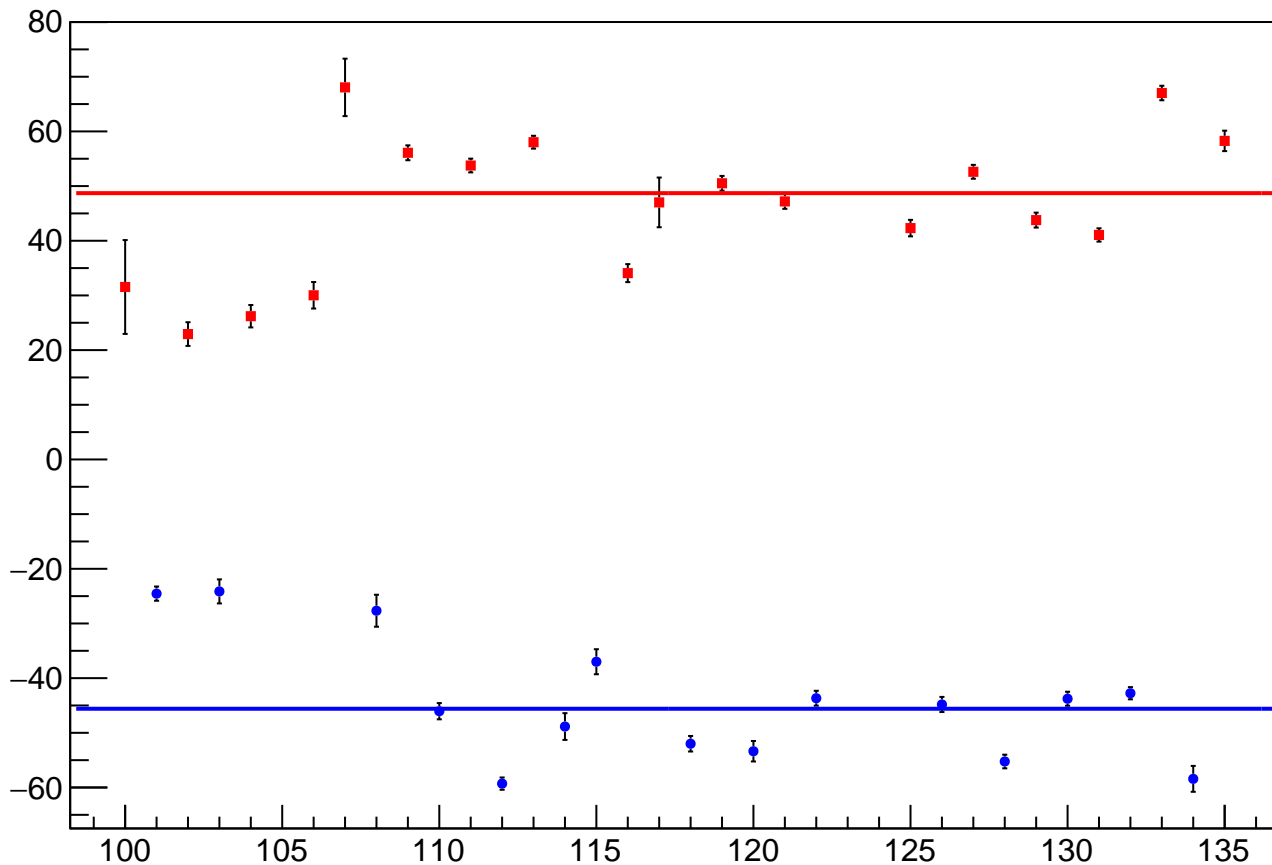
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.005 \pm 0.002$   $\chi^2/\text{NDF}: 25.9/14$

$0.001 \pm 0.001$   $\chi^2/\text{NDF}: 220.2/32$

$0.007 \pm 0.001$   $\chi^2/\text{NDF}: 164.3/17$

# reg\_asym\_left\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-45.596 \pm 0.389$   $\chi^2/\text{NDF}: 696.1/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $48.708 \pm 0.373$   $\chi^2/\text{NDF}: 825.9/17$

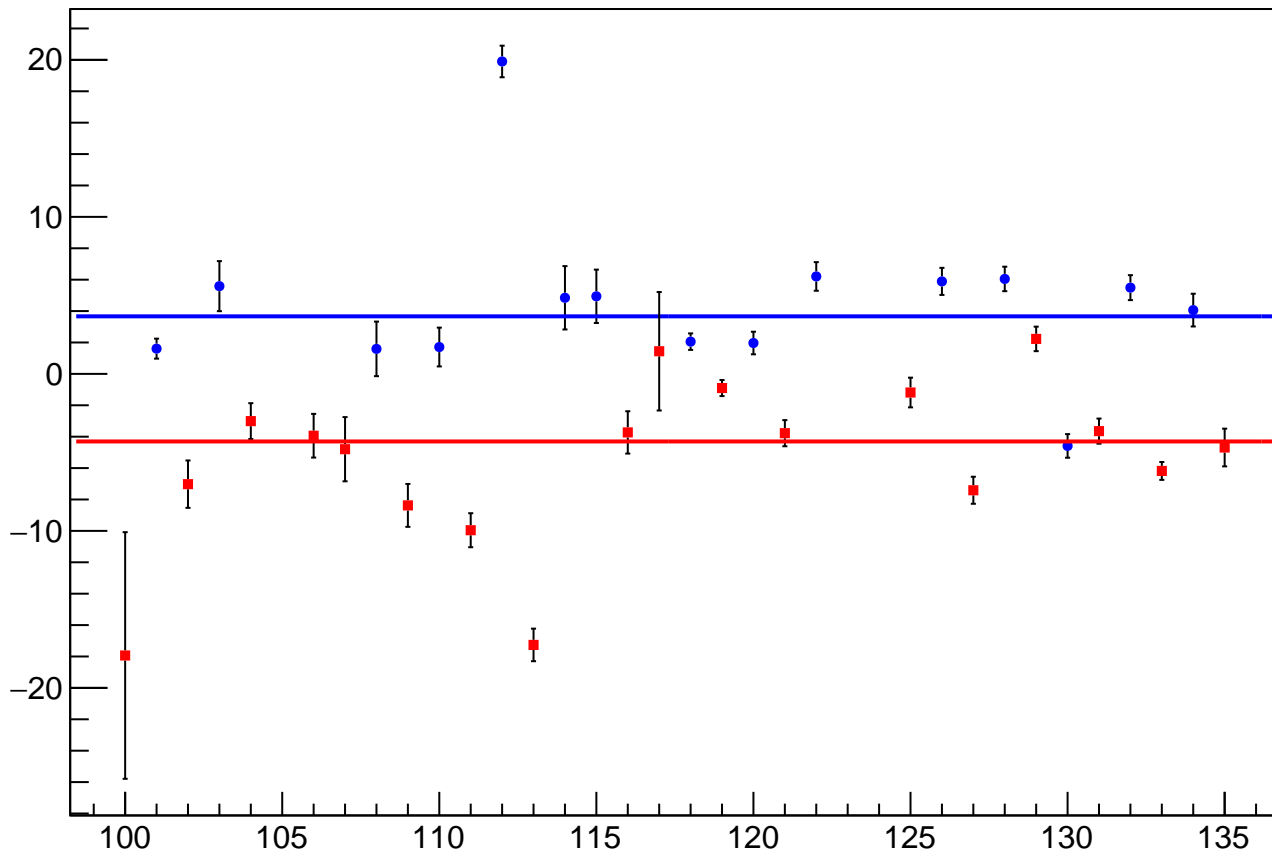
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-45.596 \pm 0.389$   $\chi^2/\text{NDF}: 696.1/14$

$3.656 \pm 0.269$   $\chi^2/\text{NDF}: 32139.4/32$

$48.708 \pm 0.373$   $\chi^2/\text{NDF}: 825.9/17$

# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.665 $\pm$ 0.227  $\chi^2$ /NDF: 441.9/14

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4.304 $\pm$ 0.226  $\chi^2$ /NDF: 352.5/17

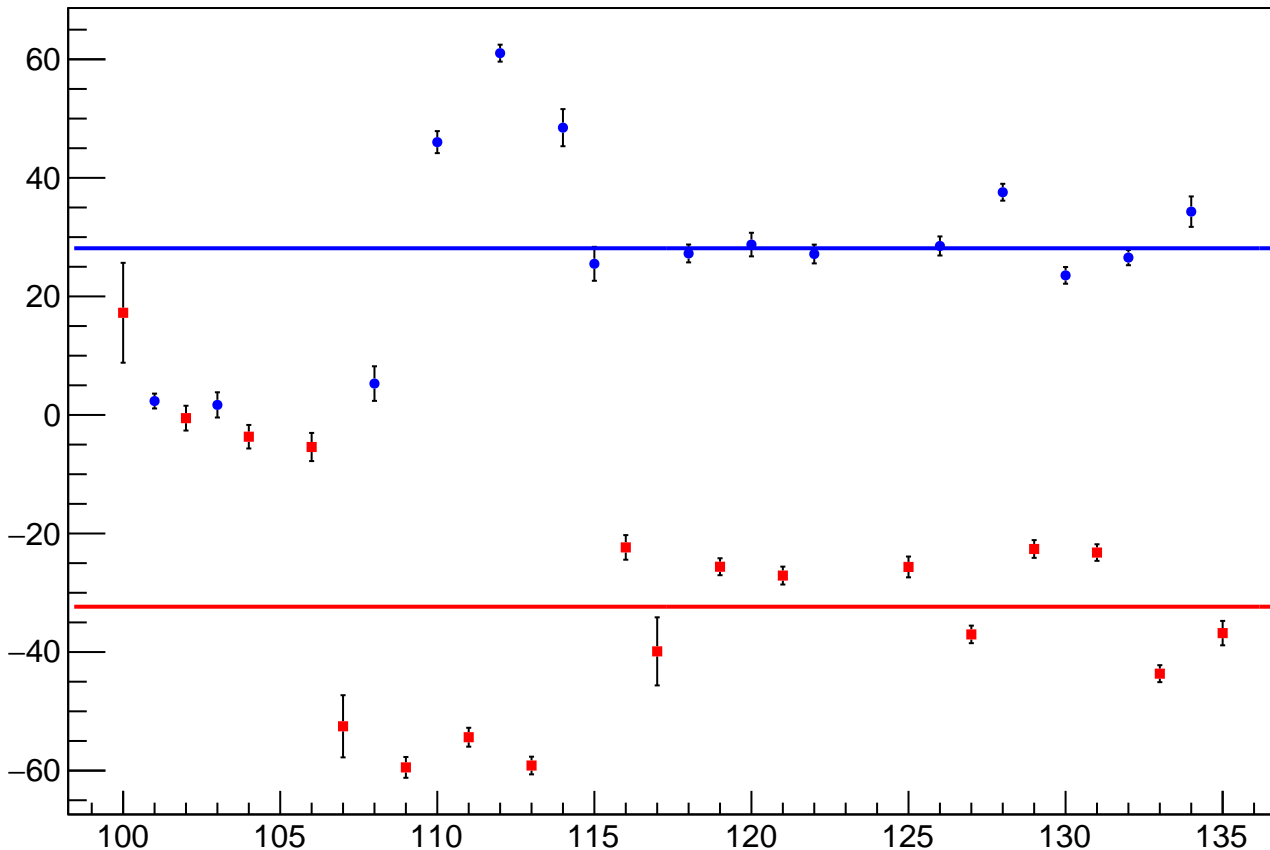
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

3.665 $\pm$ 0.227  $\chi^2$ /NDF: 441.9/14

-0.335 $\pm$ 0.160  $\chi^2$ /NDF: 1414.7/32

-4.304 $\pm$ 0.226  $\chi^2$ /NDF: 352.5/17

# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 28.123+/-0.438  $\chi^2$ /NDF: 1365.9/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -32.349+/-0.425  $\chi^2$ /NDF: 1604.8/17

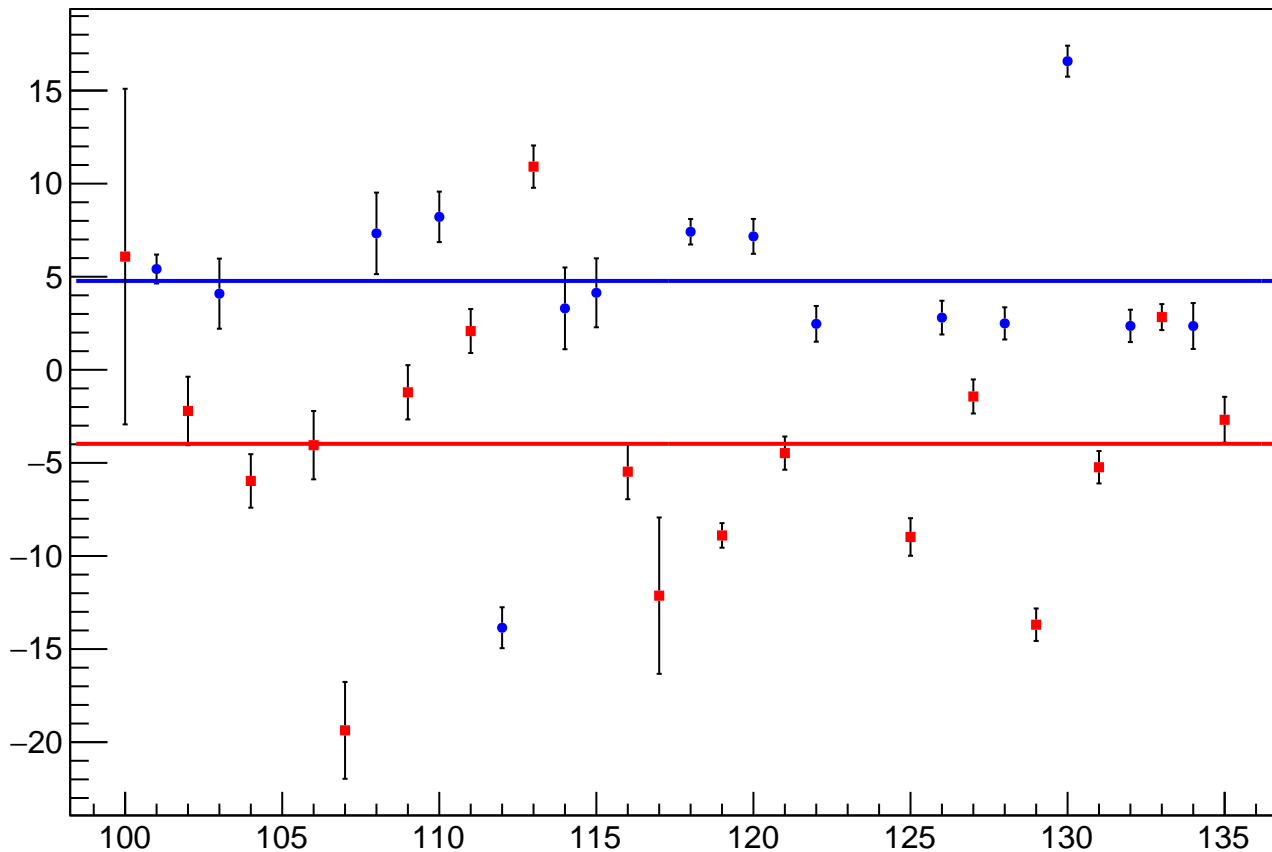
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

28.123+/-0.438  $\chi^2$ /NDF: 1365.9/14

-3.029+/-0.305  $\chi^2$ /NDF: 12774.8/32

-32.349+/-0.425  $\chi^2$ /NDF: 1604.8/17

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.774+/-0.264  $\chi^2$ /NDF: 547.8/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3.975+/-0.260  $\chi^2$ /NDF: 556.3/17

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

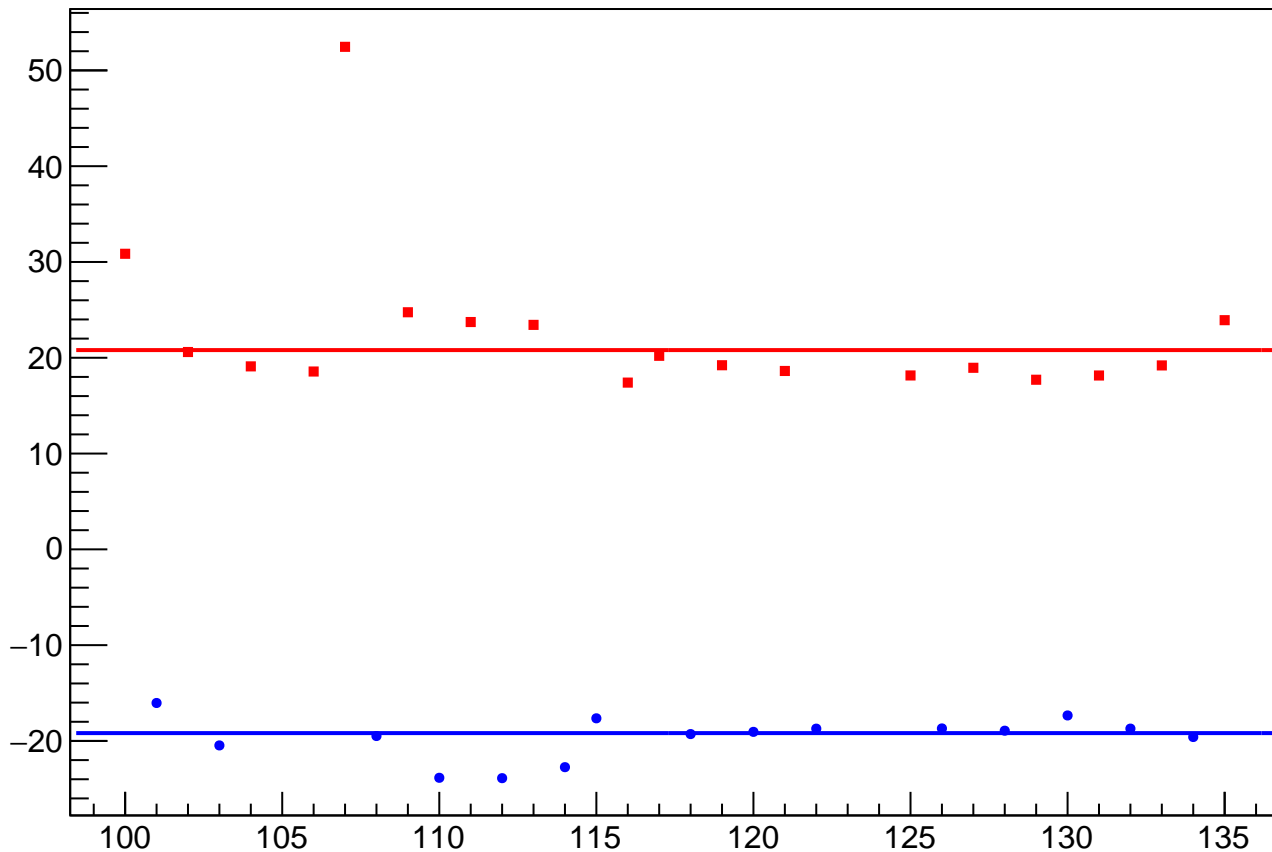
4.774+/-0.264  $\chi^2$ /NDF: 547.8/14

0.336+/-0.185  $\chi^2$ /NDF: 1662.0/32

-3.975+/-0.260  $\chi^2$ /NDF: 556.3/17



# reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.182 \pm 0.017$   $\chi^2/\text{NDF}: 15120.5/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $20.801 \pm 0.016$   $\chi^2/\text{NDF}: 92098.9/17$

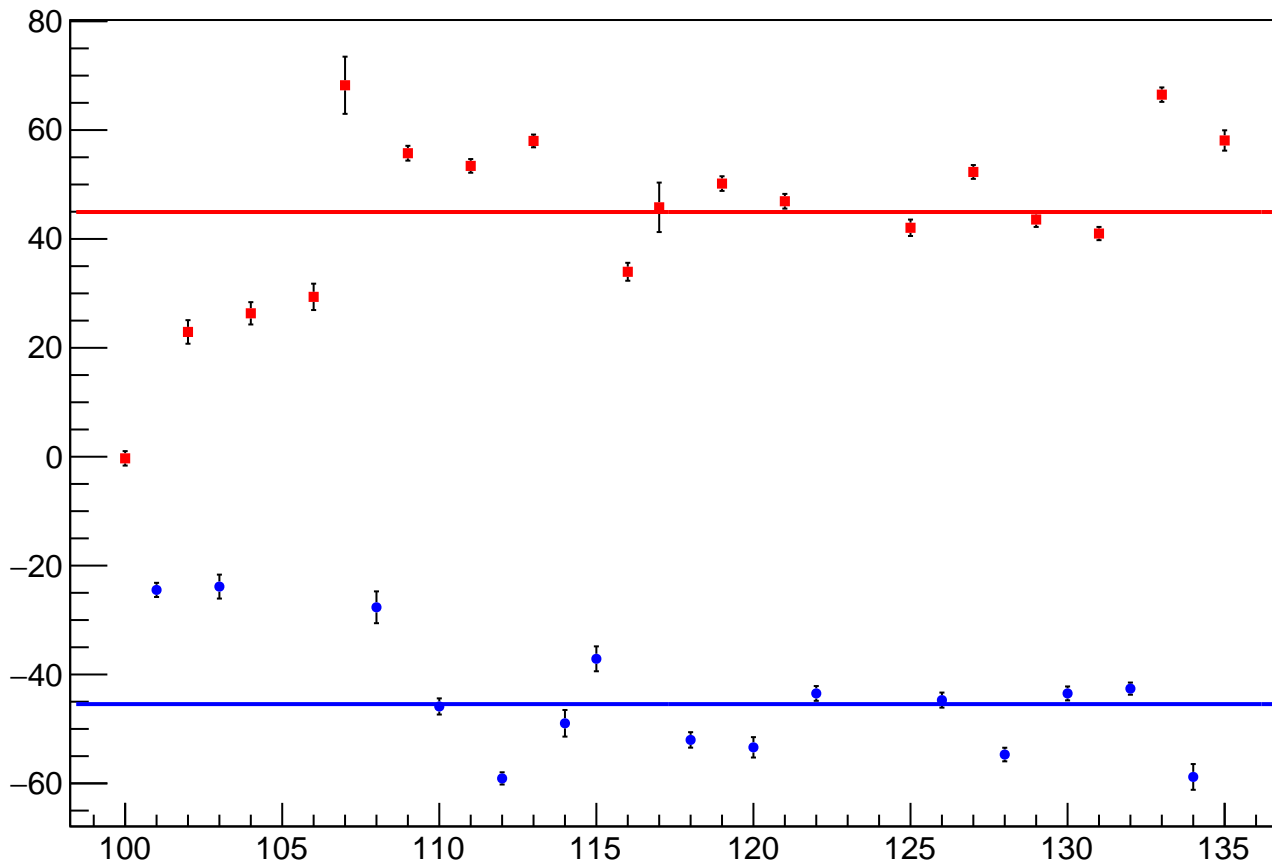
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-19.182 \pm 0.017$   $\chi^2/\text{NDF}: 15120.5/14$

$2.190 \pm 0.012$   $\chi^2/\text{NDF}: 3030220.2/32$

$20.801 \pm 0.016$   $\chi^2/\text{NDF}: 92098.9/17$

# reg\_asym\_left\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-45.440 \pm 0.389$   $\chi^2/\text{NDF}: 694.0/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $44.947 \pm 0.359$   $\chi^2/\text{NDF}: 2060.7/17$

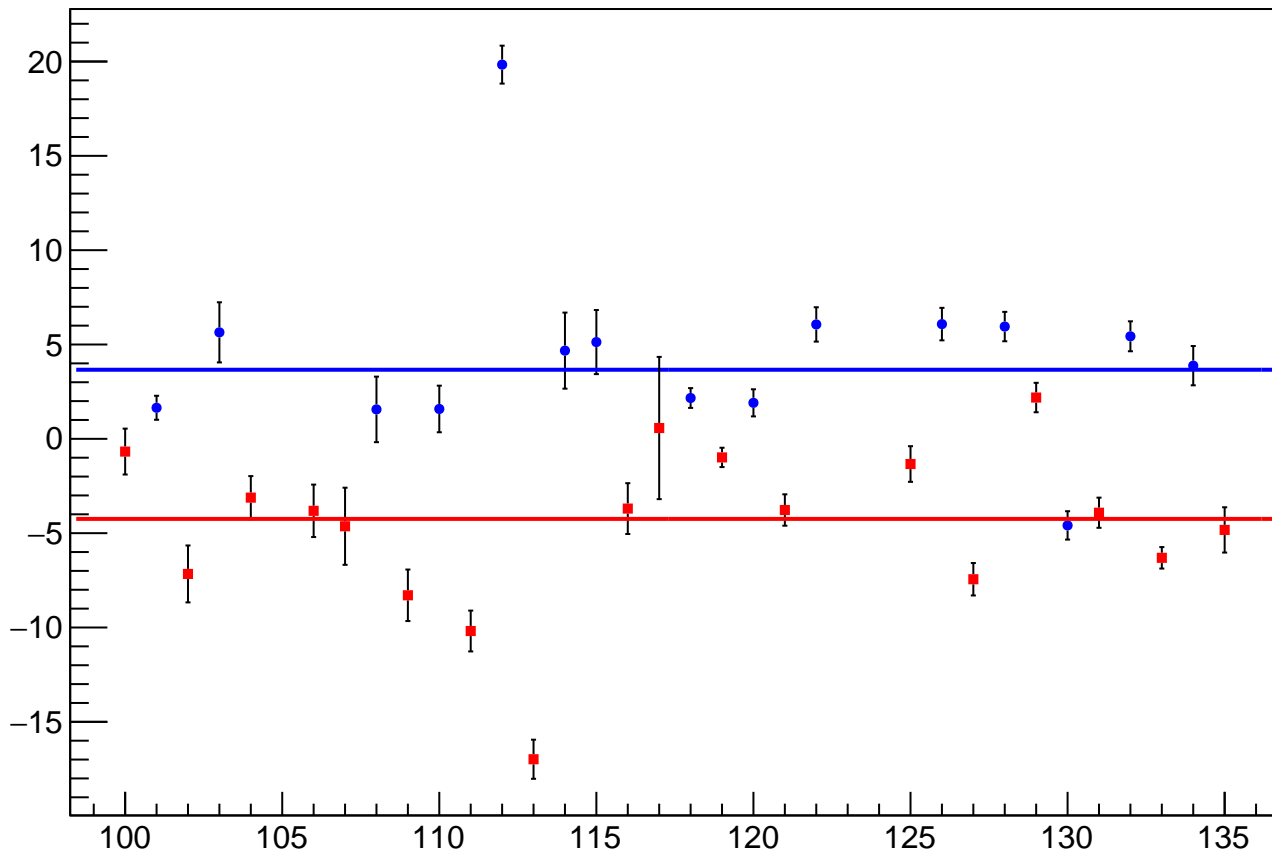
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-45.440 \pm 0.389$   $\chi^2/\text{NDF}: 694.0/14$

$3.428 \pm 0.264$   $\chi^2/\text{NDF}: 31911.1/32$

$44.947 \pm 0.359$   $\chi^2/\text{NDF}: 2060.7/17$

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.663 $\pm$ 0.227  $\chi^2$ /NDF: 438.9/14

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

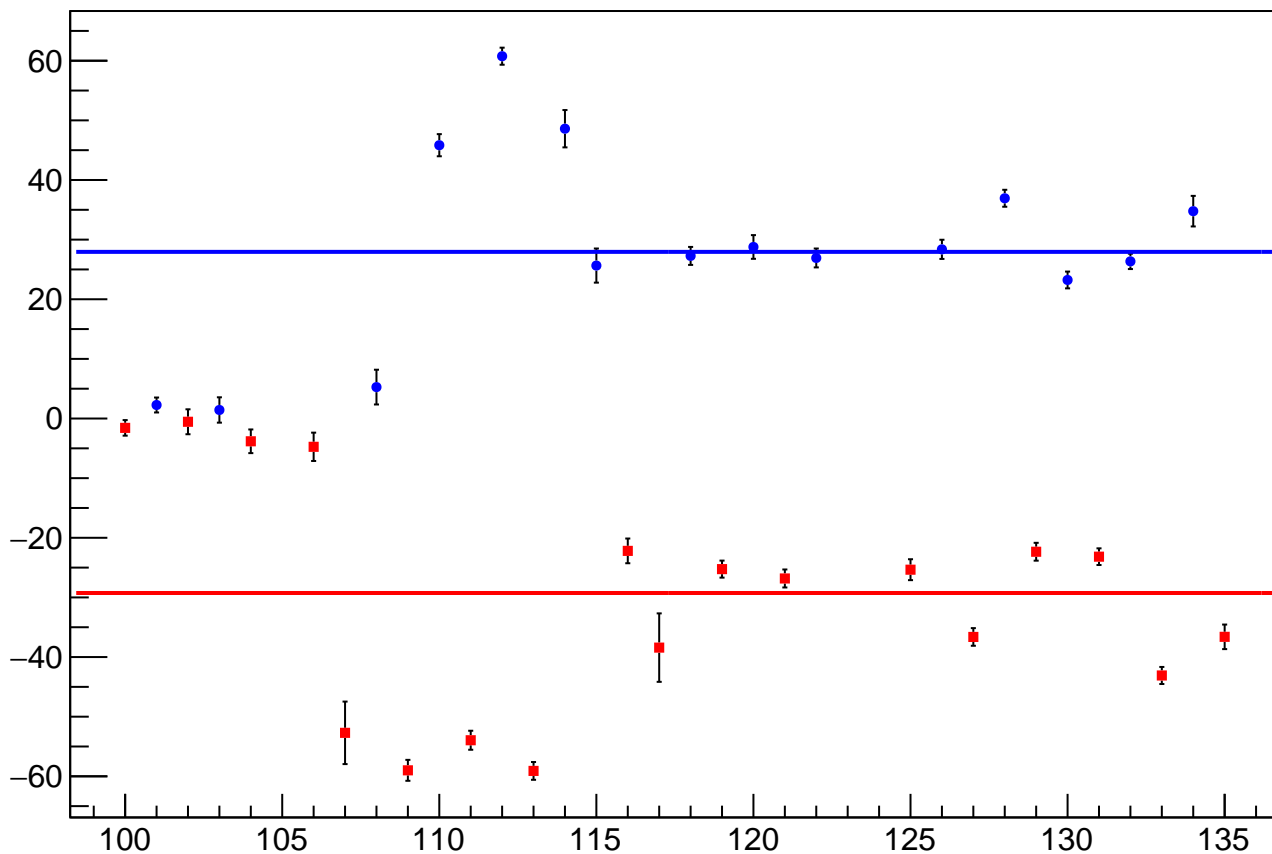
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

3.663 $\pm$ 0.227  $\chi^2$ /NDF: 438.9/14

-0.372 $\pm$ 0.159  $\chi^2$ /NDF: 1411.3/32

-4.244 $\pm$ 0.222  $\chi^2$ /NDF: 351.0/17

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $27.947 \pm 0.438$   $\chi^2/\text{NDF}: 1359.8/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-29.258 \pm 0.405$   $\chi^2/\text{NDF}: 2058.0/17$

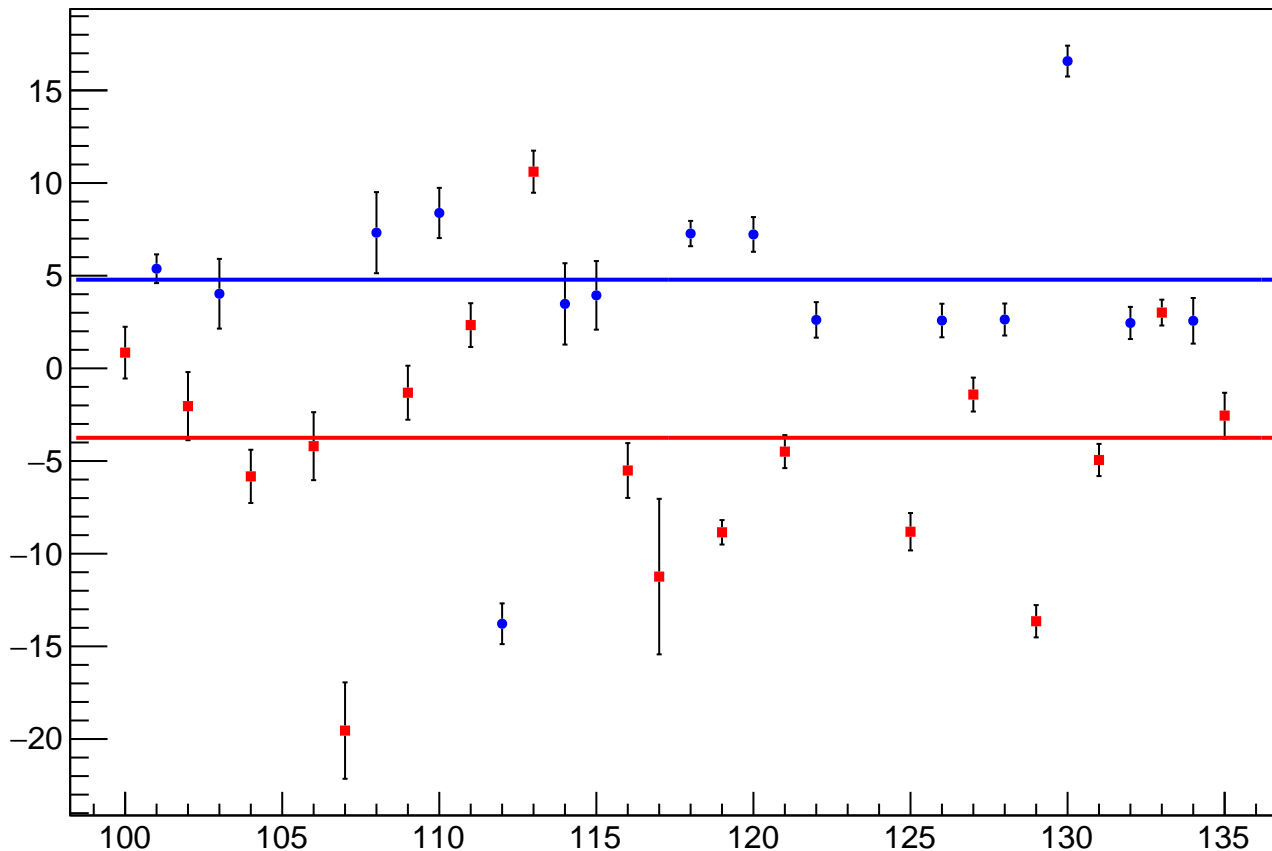
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$27.947 \pm 0.438$   $\chi^2/\text{NDF}: 1359.8/14$

$-2.927 \pm 0.297$   $\chi^2/\text{NDF}: 12622.2/32$

$-29.258 \pm 0.405$   $\chi^2/\text{NDF}: 2058.0/17$

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.784+/-0.264  $\chi^2$ /NDF: 544.0/14

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3.747+/-0.256  $\chi^2$ /NDF: 562.7/17

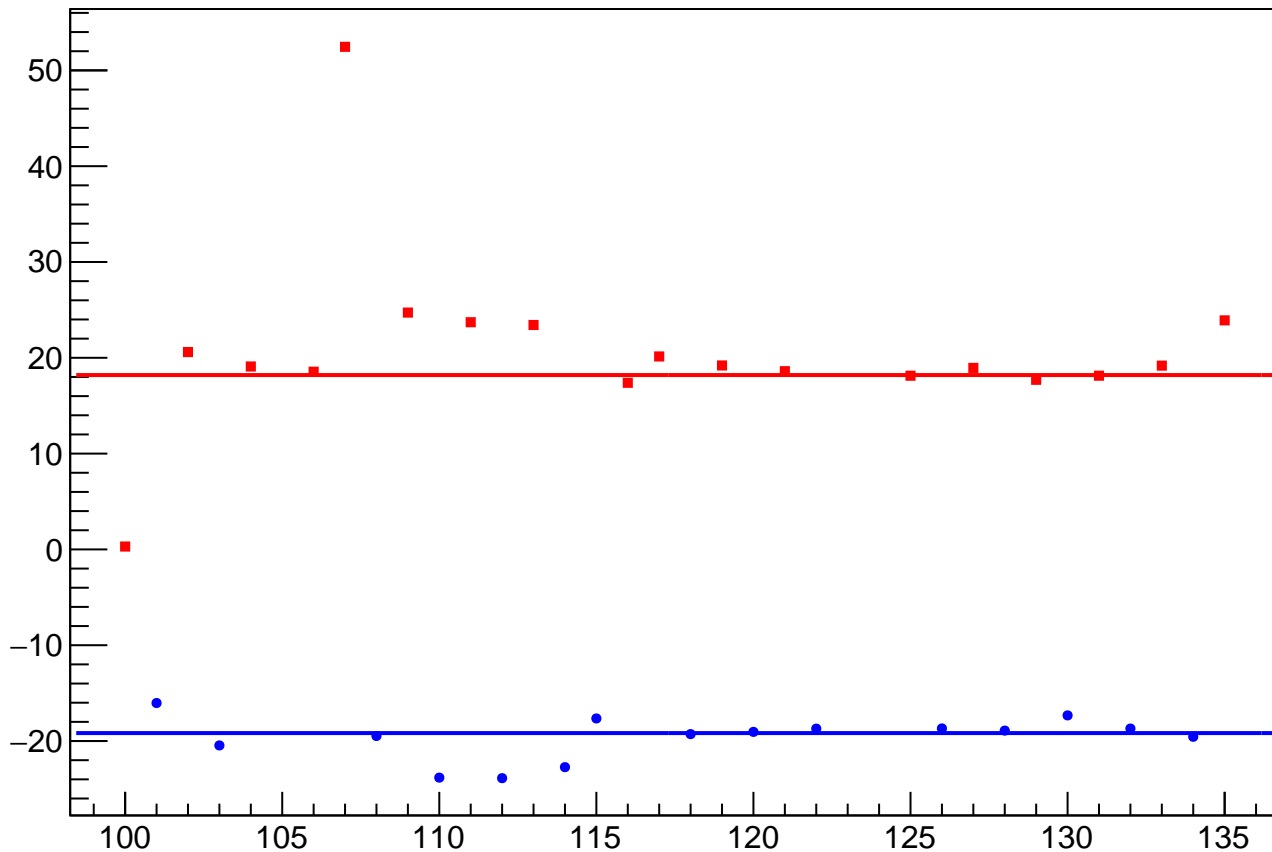
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

4.784+/-0.264  $\chi^2$ /NDF: 544.0/14

0.385+/-0.183  $\chi^2$ /NDF: 1646.6/32

-3.747+/-0.256  $\chi^2$ /NDF: 562.7/17

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.170 \pm 0.017$   $\chi^2/\text{NDF}: 15105.9/14$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $18.198 \pm 0.015$   $\chi^2/\text{NDF}: 295620.6/17$

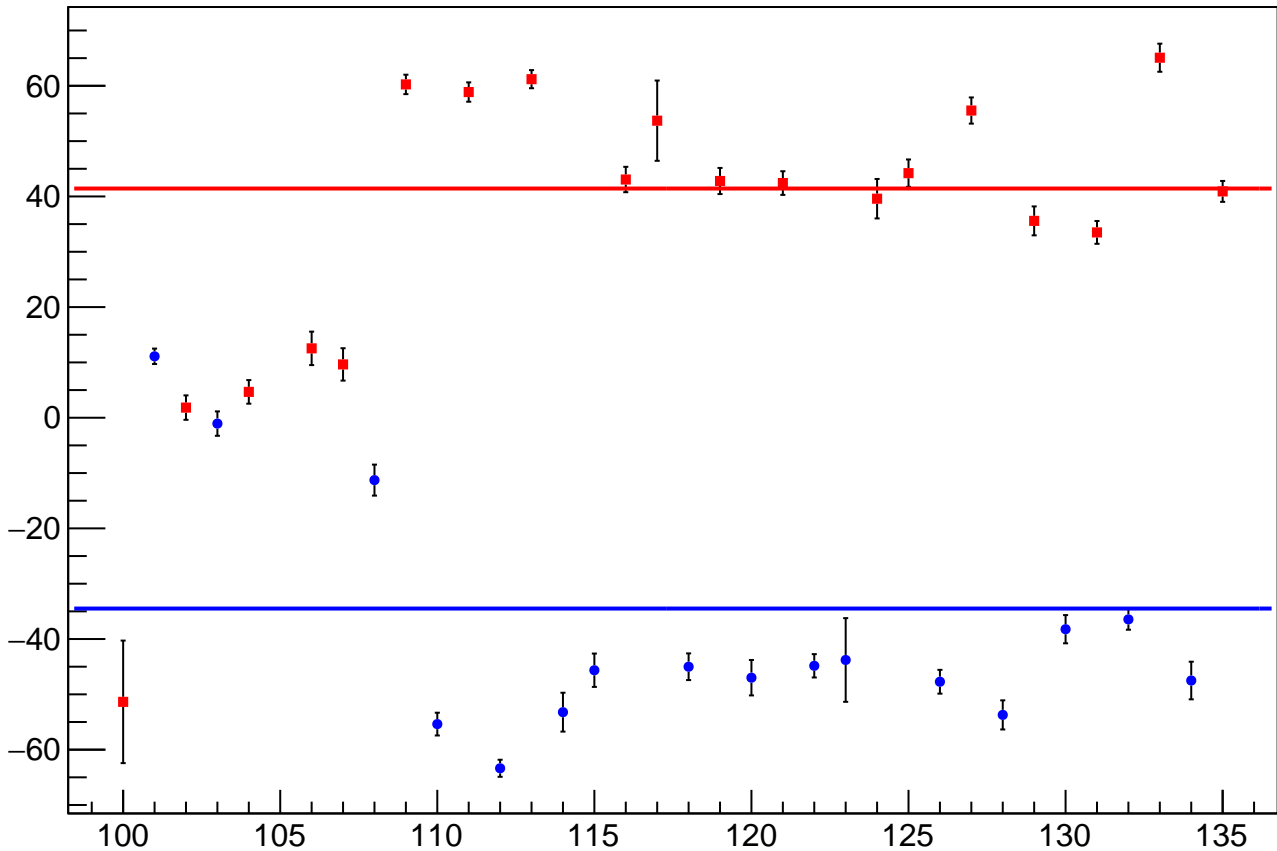
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-19.170 \pm 0.017$   $\chi^2/\text{NDF}: 15105.9/14$

$2.006 \pm 0.011$   $\chi^2/\text{NDF}: 3021123.3/32$

$18.198 \pm 0.015$   $\chi^2/\text{NDF}: 295620.6/17$

# reg\_asym\_right\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-34.492 \pm 0.569$   $\chi^2/\text{NDF}: 2031.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $41.430 \pm 0.532$   $\chi^2/\text{NDF}: 1405.1/18$

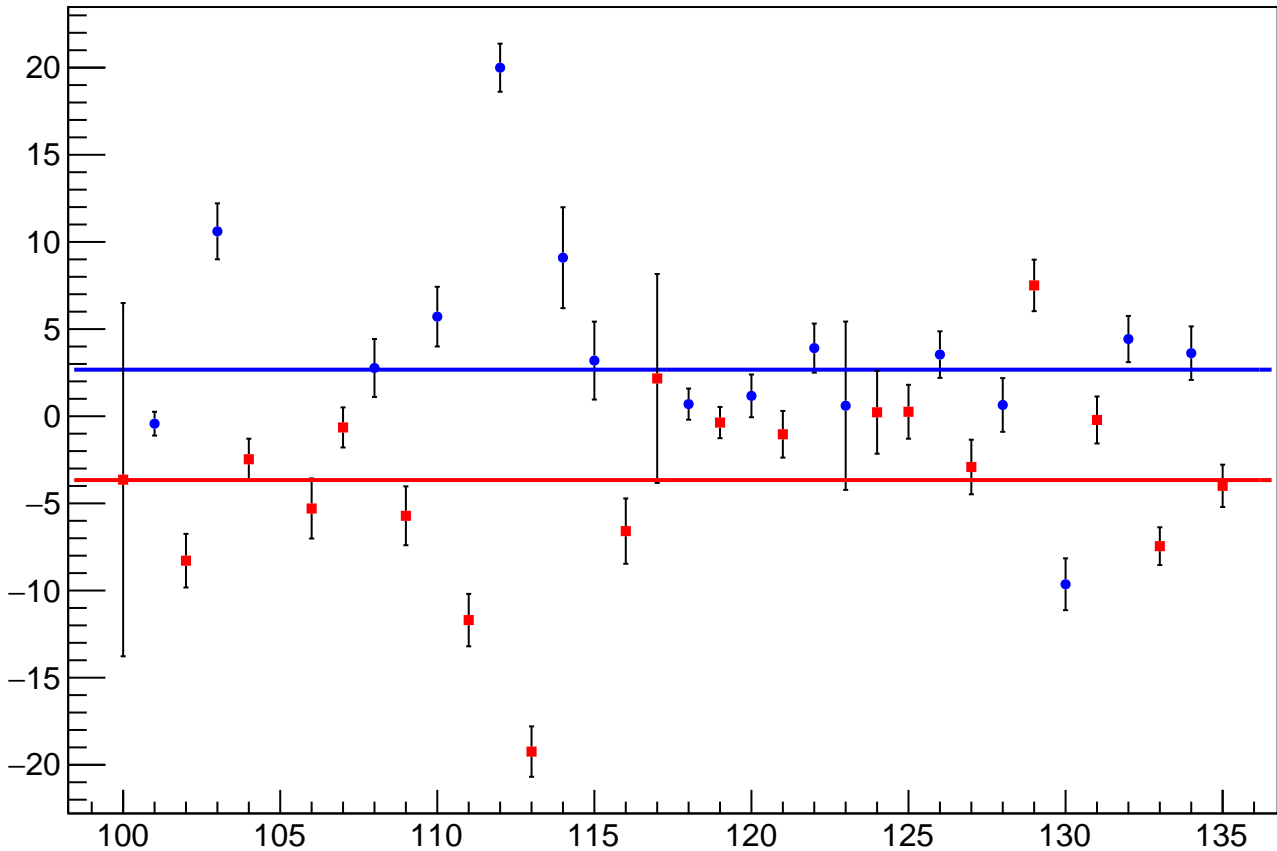
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-34.492 \pm 0.569$   $\chi^2/\text{NDF}: 2031.2/15$

$5.957 \pm 0.389$   $\chi^2/\text{NDF}: 12936.7/34$

$41.430 \pm 0.532$   $\chi^2/\text{NDF}: 1405.1/18$

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 2.672 $\pm$ 0.334  $\chi^2$ /NDF: 291.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.662 $\pm$ 0.330  $\chi^2$ /NDF: 270.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

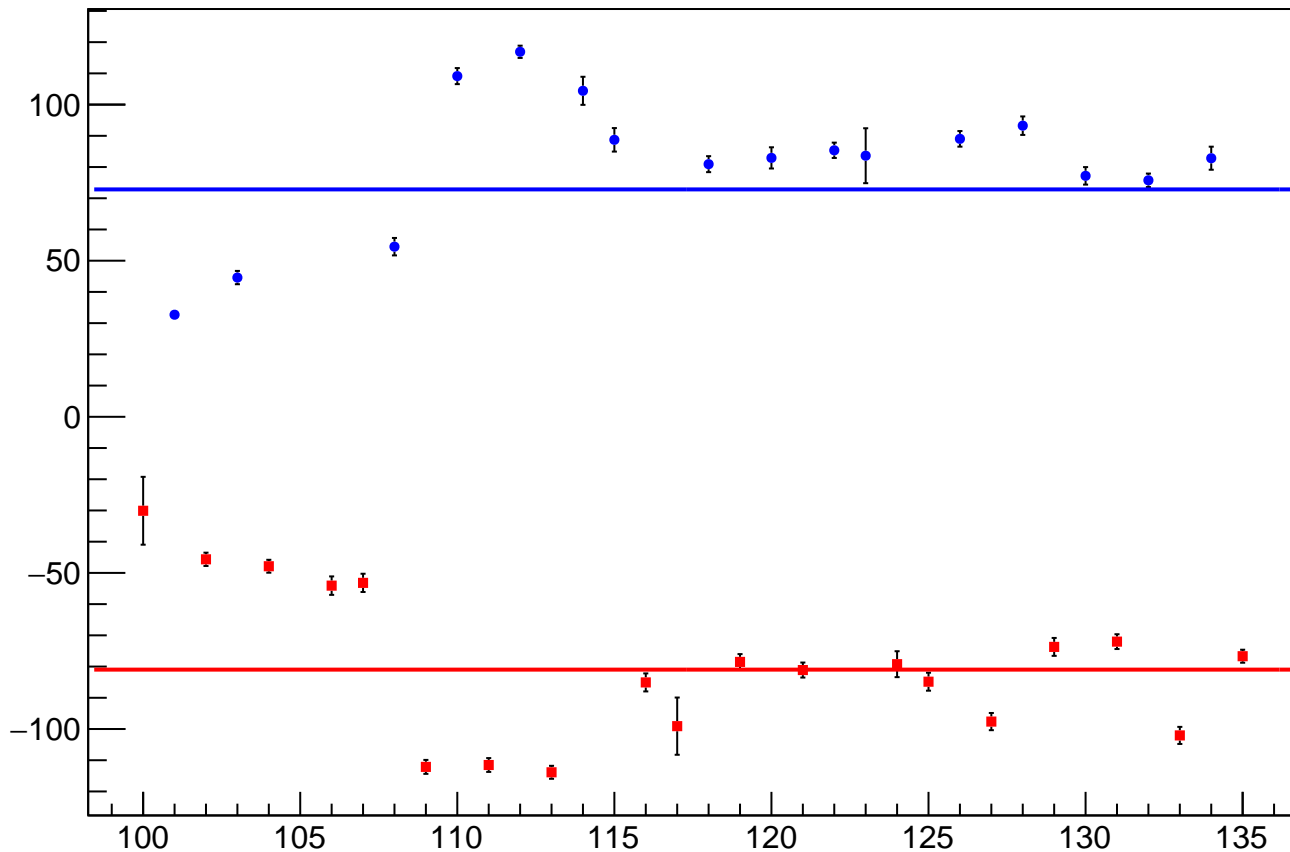
2.672 $\pm$ 0.334  $\chi^2$ /NDF: 291.3/15

-0.529 $\pm$ 0.235  $\chi^2$ /NDF: 743.5/34

-3.662 $\pm$ 0.330  $\chi^2$ /NDF: 270.1/18



# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 72.834+/-0.628  $\chi^2$ /NDF: 2027.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -80.978+/-0.601  $\chi^2$ /NDF: 1490.5/18

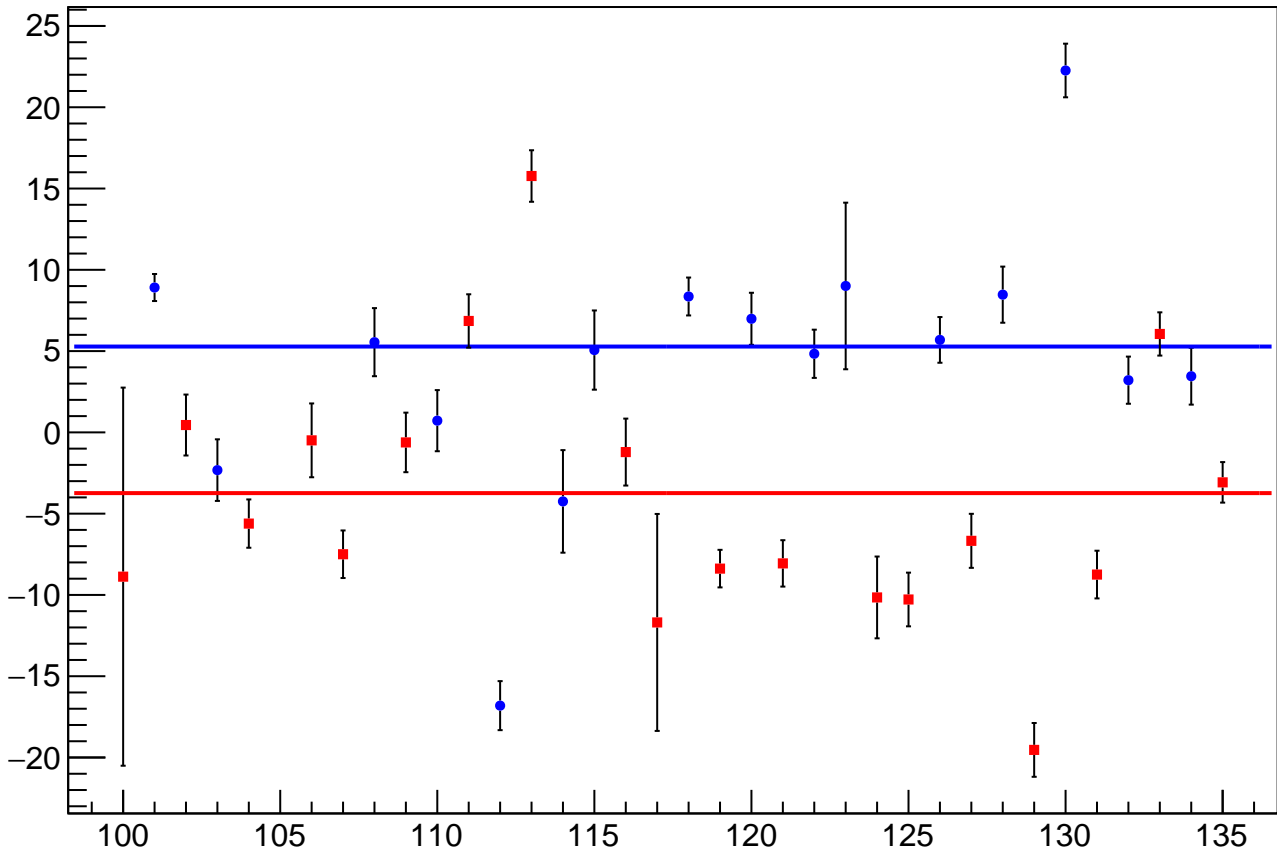
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

72.834+/-0.628  $\chi^2$ /NDF: 2027.5/15

-7.418+/-0.434  $\chi^2$ /NDF: 34841.5/34

-80.978+/-0.601  $\chi^2$ /NDF: 1490.5/18

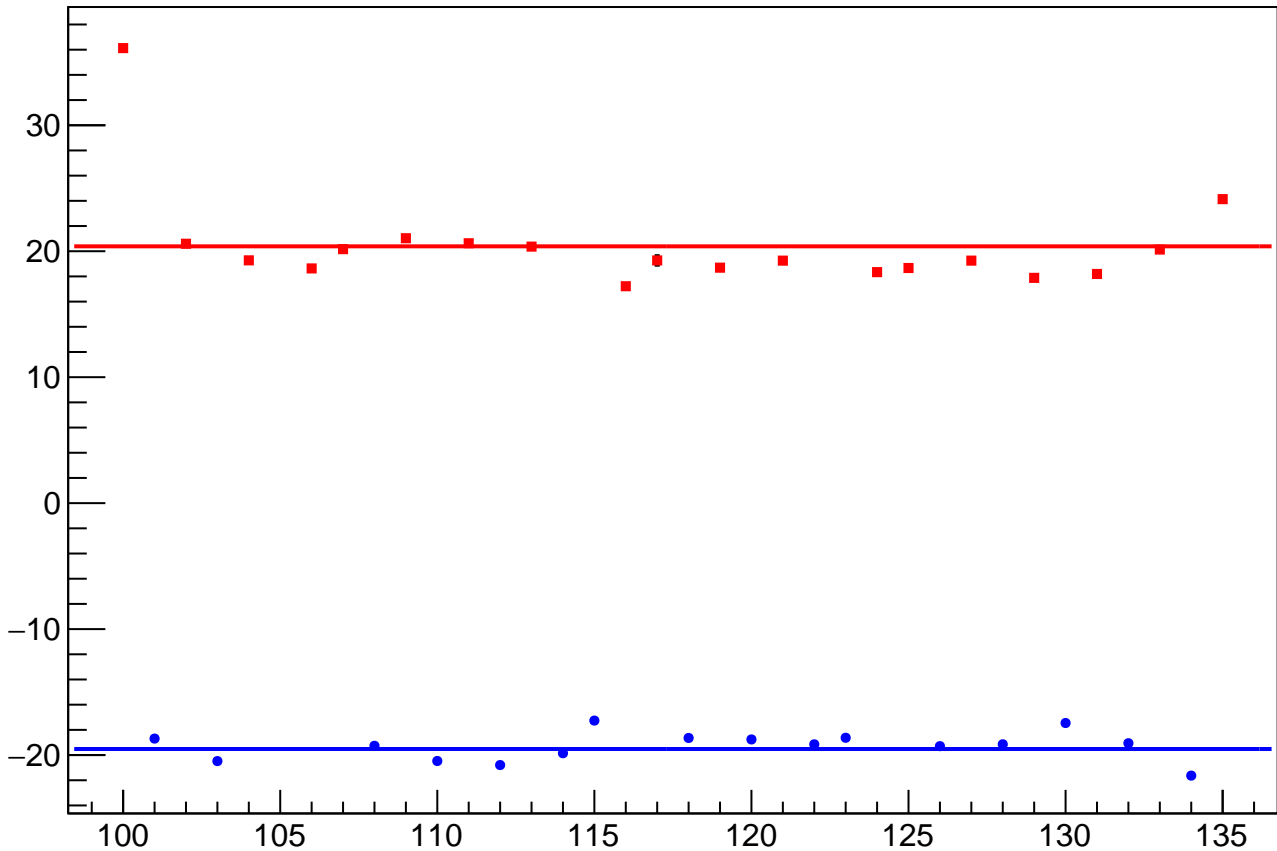
# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 5.280+/-0.390  $\chi^2/\text{NDF}$ : 386.1/15  
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

5.280+/-0.390  $\chi^2/\text{NDF}$ : 386.1/15  
0.663+/-0.272  $\chi^2/\text{NDF}$ : 1082.0/34  
-3.736+/-0.381  $\chi^2/\text{NDF}$ : 422.3/18

# reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.518 \pm 0.022$   $\chi^2/\text{NDF}: 2100.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $20.388 \pm 0.020$   $\chi^2/\text{NDF}: 10760.7/18$

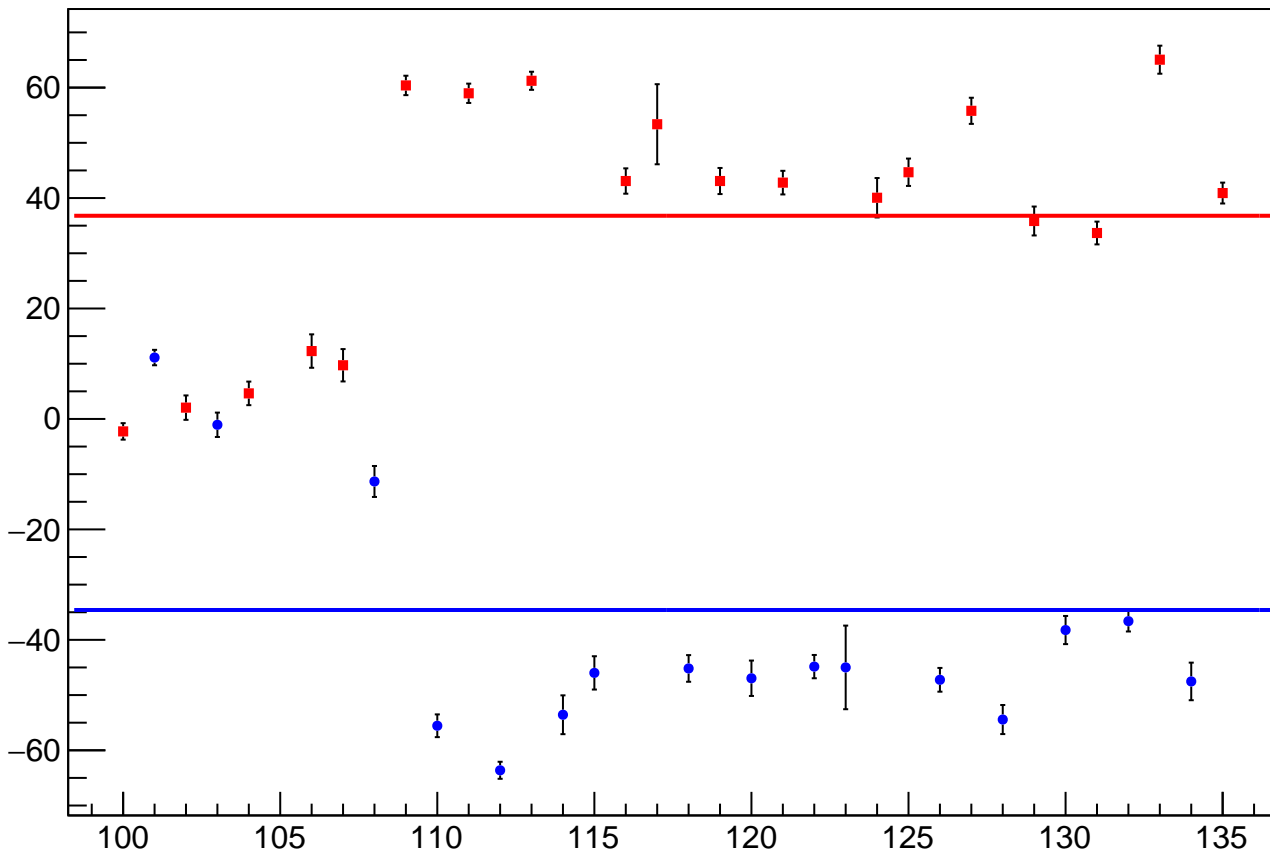
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-19.518 \pm 0.022$   $\chi^2/\text{NDF}: 2100.5/15$

$2.629 \pm 0.015$   $\chi^2/\text{NDF}: 1794582.0/34$

$20.388 \pm 0.020$   $\chi^2/\text{NDF}: 10760.7/18$

# reg\_asym\_right\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: -34.594+/-0.569  $\chi^2$ /NDF: 2042.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 36.793+/-0.502  $\chi^2$ /NDF: 2107.2/18

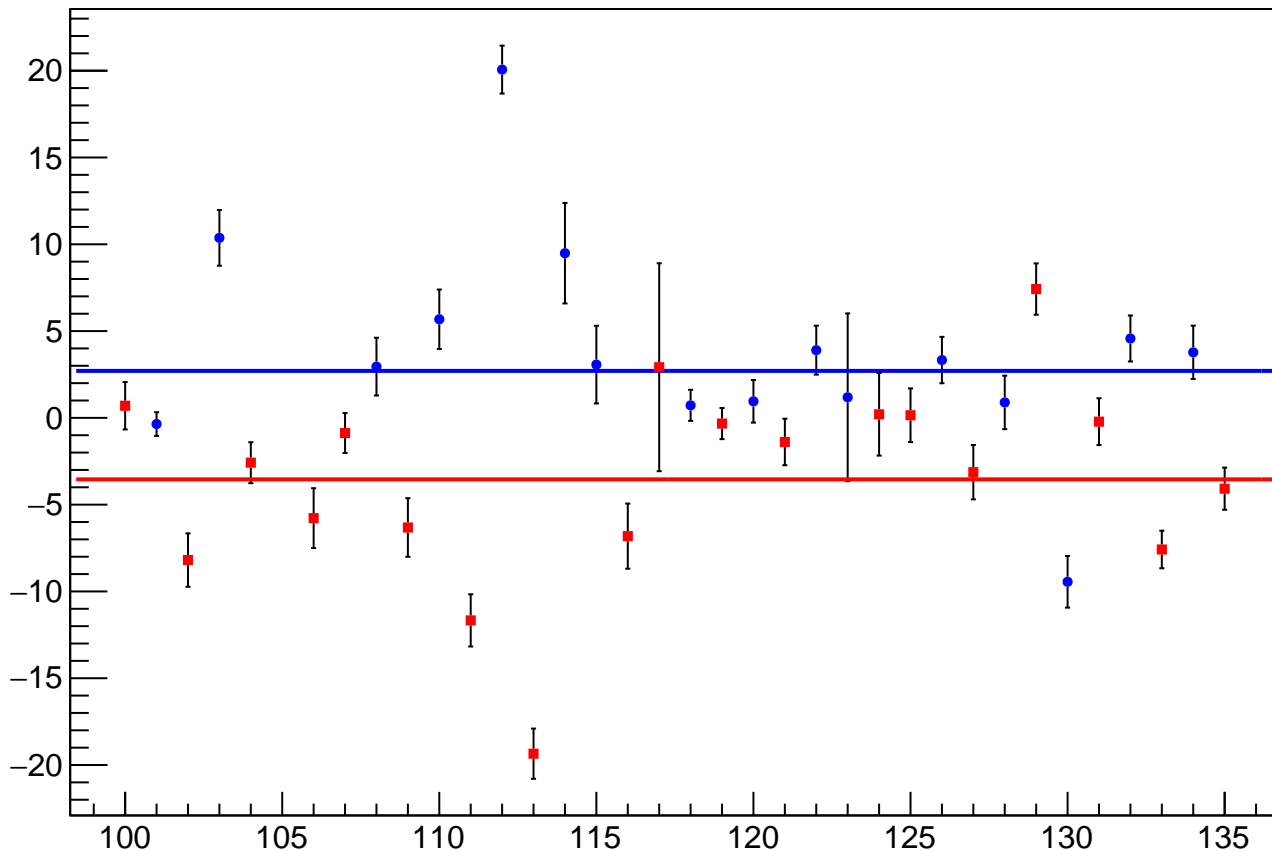
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-34.594+/-0.569  $\chi^2$ /NDF: 2042.0/15

5.522+/-0.377  $\chi^2$ /NDF: 12998.9/34

36.793+/-0.502  $\chi^2$ /NDF: 2107.2/18

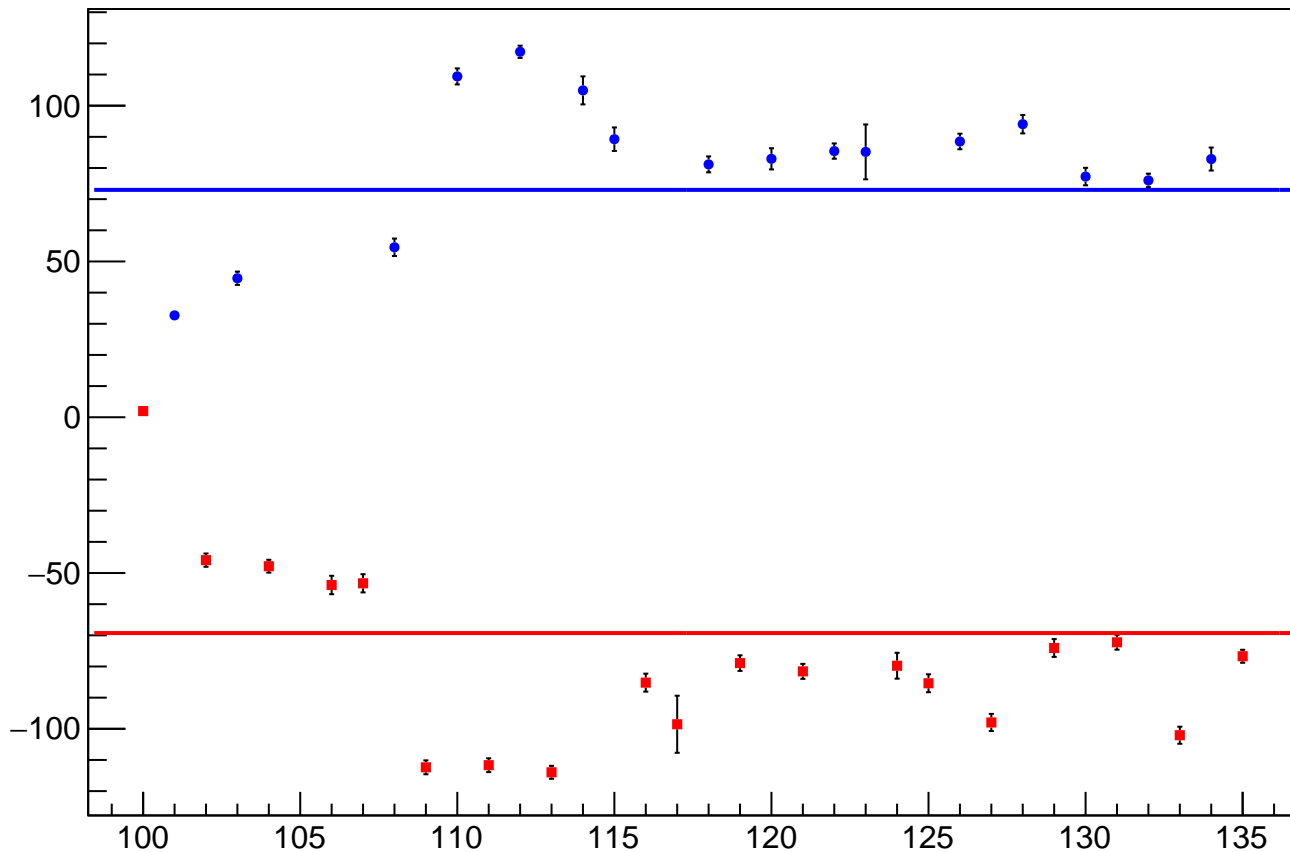
# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 2.706+/-0.334  $\chi^2/\text{NDF}$ : 288.4/15  
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

2.706+/-0.334  $\chi^2/\text{NDF}$ : 288.4/15  
-0.539+/-0.232  $\chi^2/\text{NDF}$ : 751.1/34  
-3.543+/-0.321  $\chi^2/\text{NDF}$ : 280.7/18

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 72.980 $\pm$ 0.628  $\chi^2$ /NDF: 2042.9/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -69.268 $\pm$ 0.557  $\chi^2$ /NDF: 4237.7/18

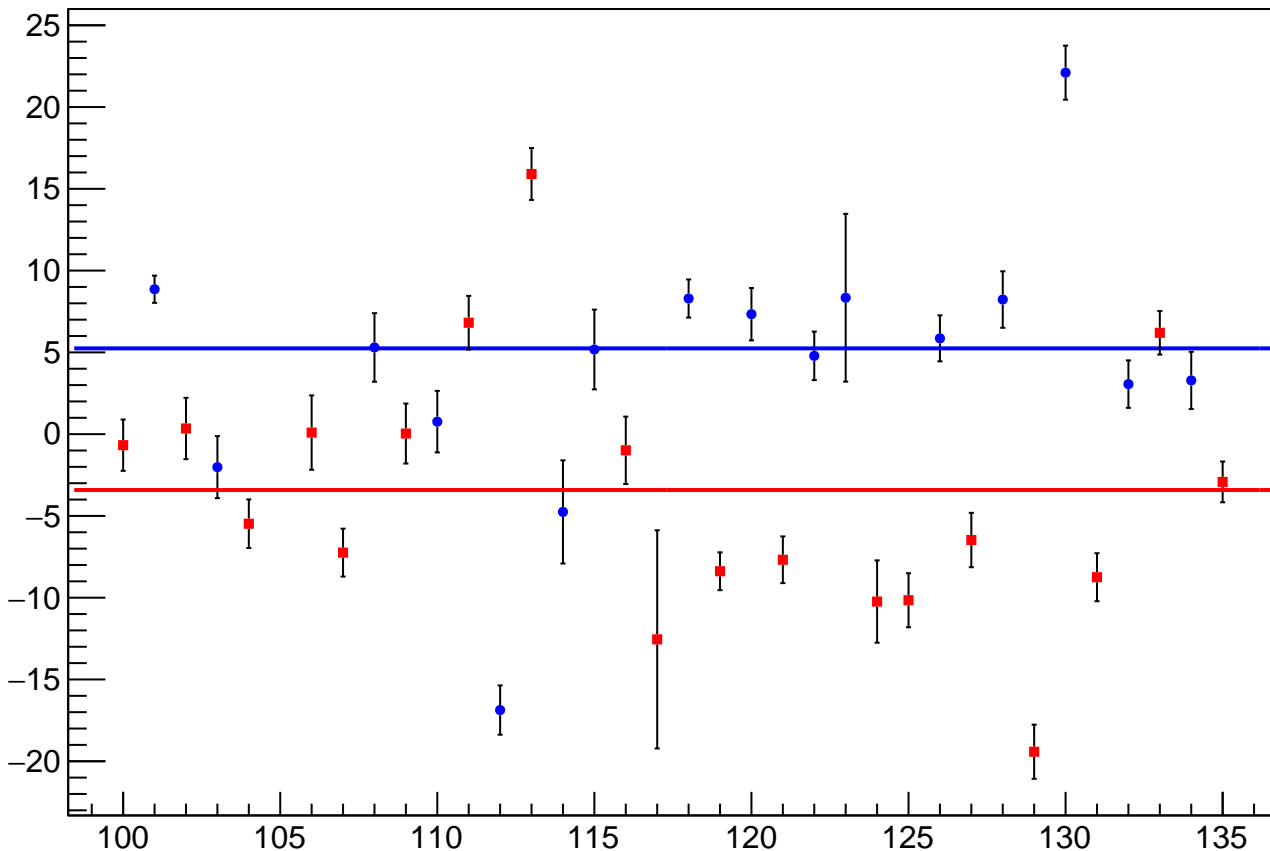
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

72.980 $\pm$ 0.628  $\chi^2$ /NDF: 2042.9/15

-6.645 $\pm$ 0.417  $\chi^2$ /NDF: 34991.3/34

-69.268 $\pm$ 0.557  $\chi^2$ /NDF: 4237.7/18

# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 5.244+/-0.390  $\chi^2/\text{NDF}$ : 384.3/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.416+/-0.370  $\chi^2/\text{NDF}$ : 426.0/18

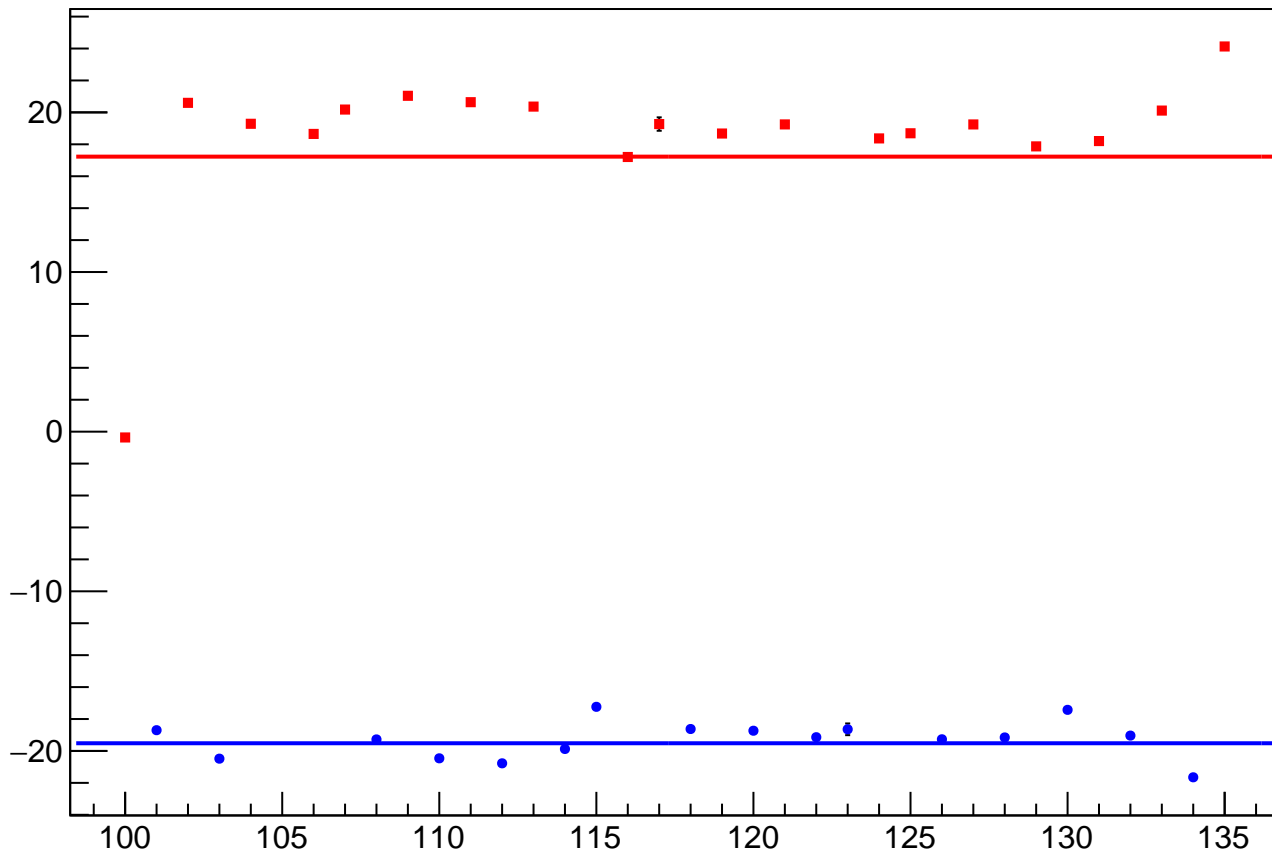
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.244+/-0.390  $\chi^2/\text{NDF}$ : 384.3/15

0.688+/-0.269  $\chi^2/\text{NDF}$ : 1069.4/34

-3.416+/-0.370  $\chi^2/\text{NDF}$ : 426.0/18

reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.518 \pm 0.022$   $\chi^2/\text{NDF}: 2117.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $17.228 \pm 0.018$   $\chi^2/\text{NDF}: 170075.1/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

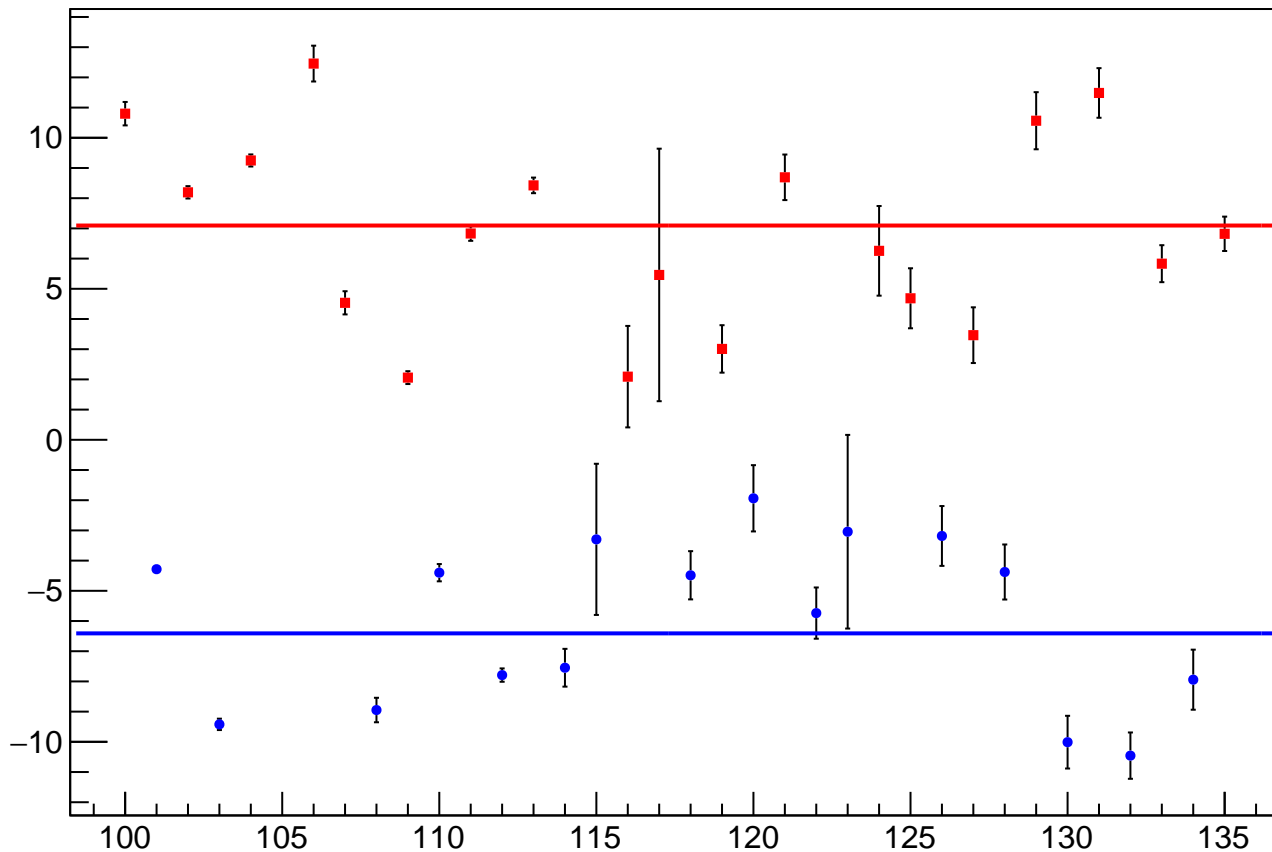
$-19.518 \pm 0.022$   $\chi^2/\text{NDF}: 2117.9/15$

$2.310 \pm 0.014$   $\chi^2/\text{NDF}: 1787353.0/34$

$17.228 \pm 0.018$   $\chi^2/\text{NDF}: 170075.1/18$



reg\_asym\_sam\_15\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: -6.409+/-0.088  $\chi^2$ /NDF: 700.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7.095+/-0.086  $\chi^2$ /NDF: 1059.6/18

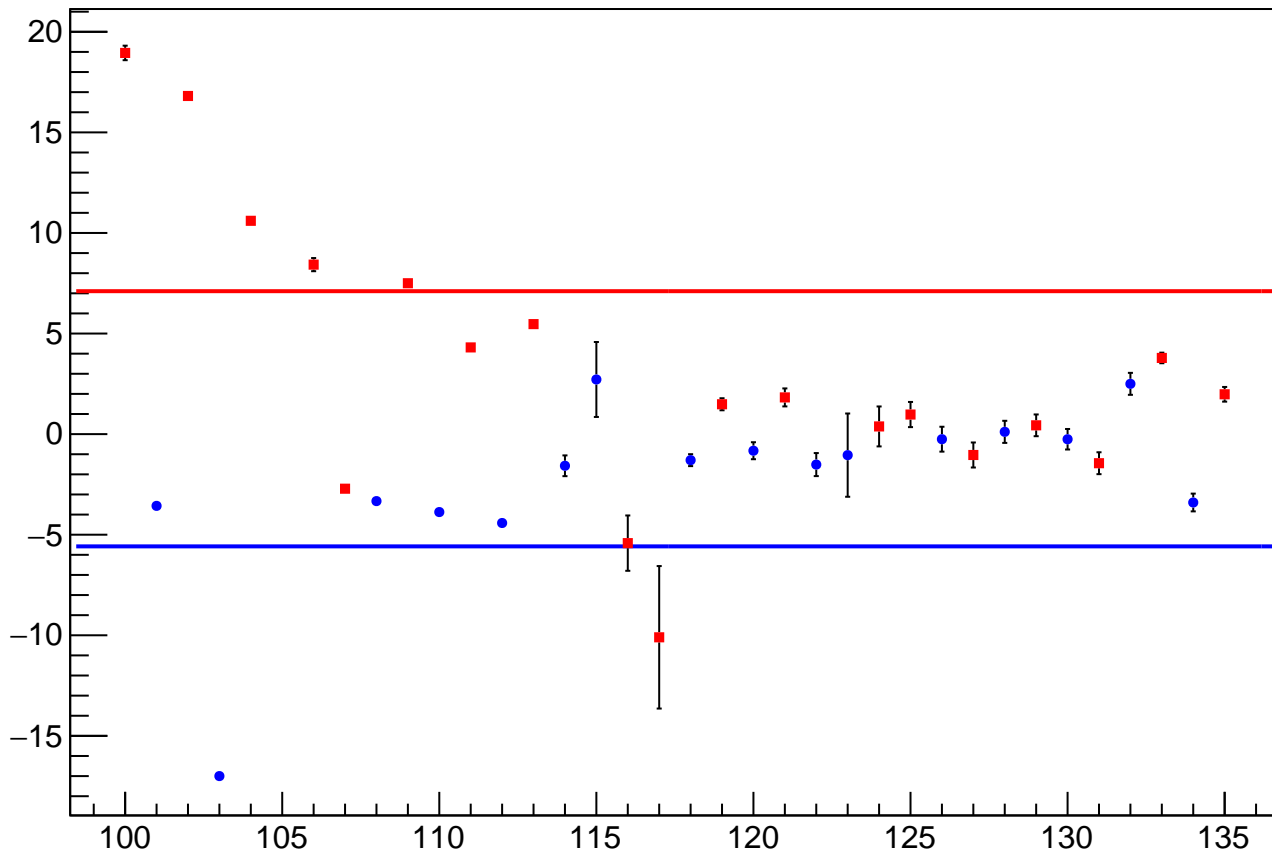
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-6.409+/-0.088  $\chi^2$ /NDF: 700.5/15

0.454+/-0.062  $\chi^2$ /NDF: 13777.6/34

7.095+/-0.086  $\chi^2$ /NDF: 1059.6/18

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-5.580 \pm 0.056$   $\chi^2/\text{NDF}: 9002.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $7.106 \pm 0.059$   $\chi^2/\text{NDF}: 12254.6/18$

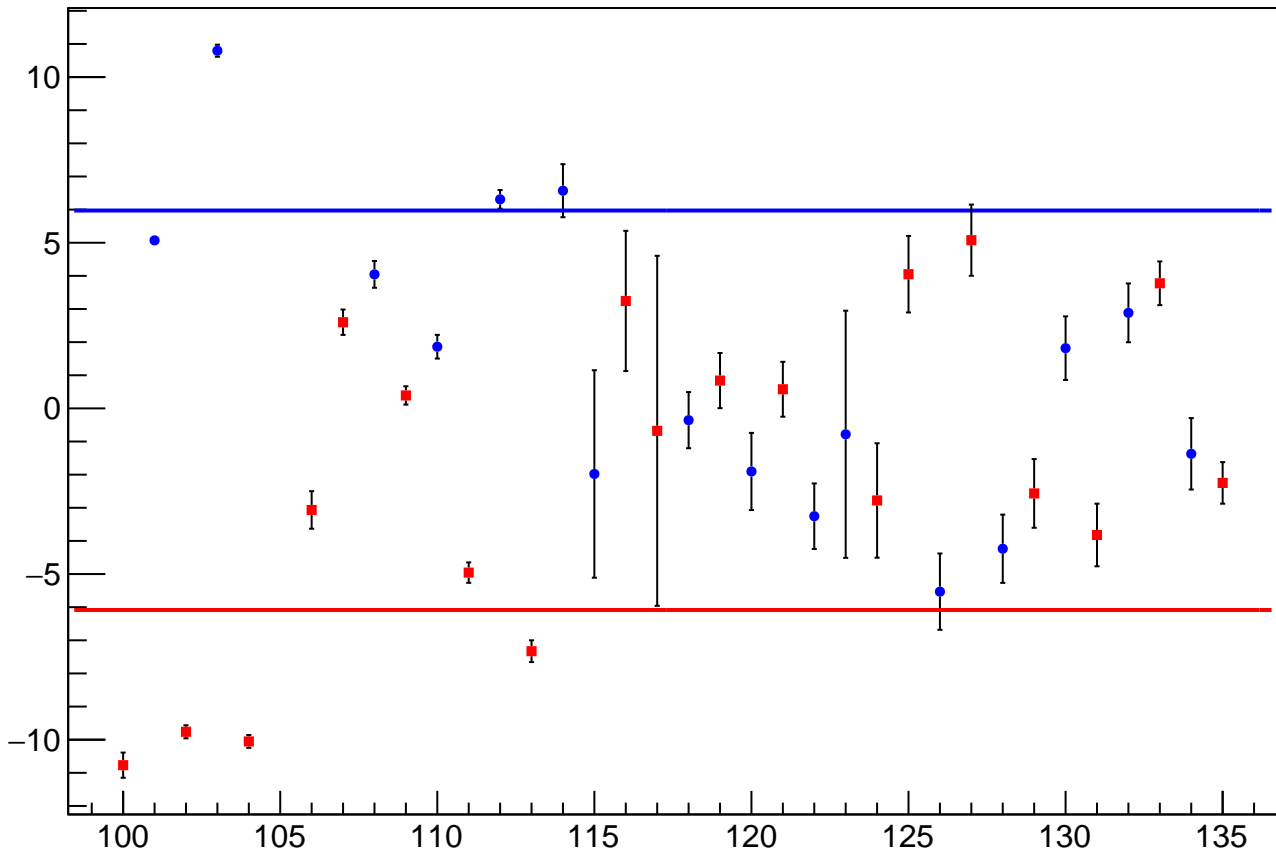
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-5.580 \pm 0.056$   $\chi^2/\text{NDF}: 9002.0/15$

$0.376 \pm 0.041$   $\chi^2/\text{NDF}: 45580.8/34$

$7.106 \pm 0.059$   $\chi^2/\text{NDF}: 12254.6/18$

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 5.973+/-0.091  $\chi^2$ /NDF: 1375.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -6.085+/-0.094  $\chi^2$ /NDF: 2657.2/18

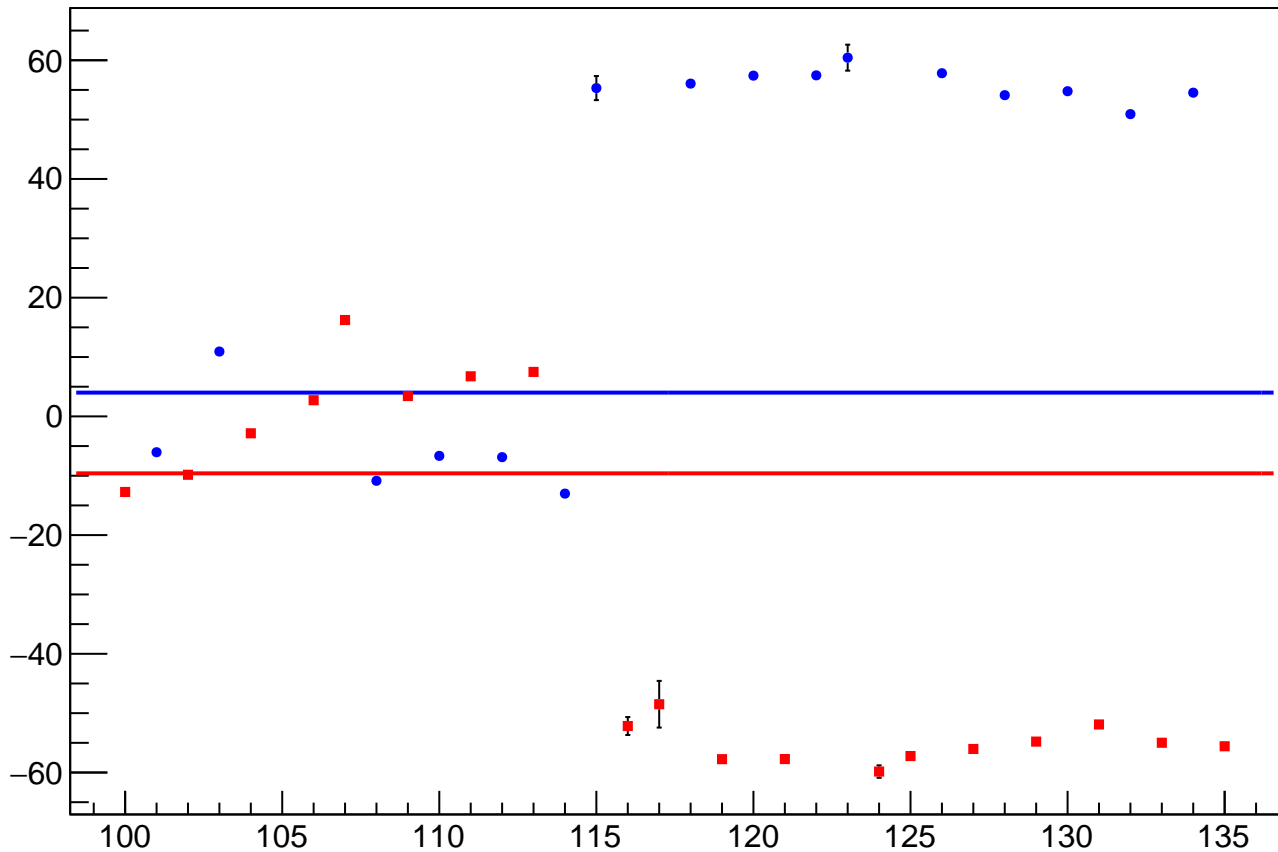
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

5.973+/-0.091  $\chi^2$ /NDF: 1375.5/15

0.103+/-0.065  $\chi^2$ /NDF: 12536.2/34

-6.085+/-0.094  $\chi^2$ /NDF: 2657.2/18

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.006+/-0.066  $\chi^2$ /NDF: 94778.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -9.598+/-0.070  $\chi^2$ /NDF: 117420.9/18

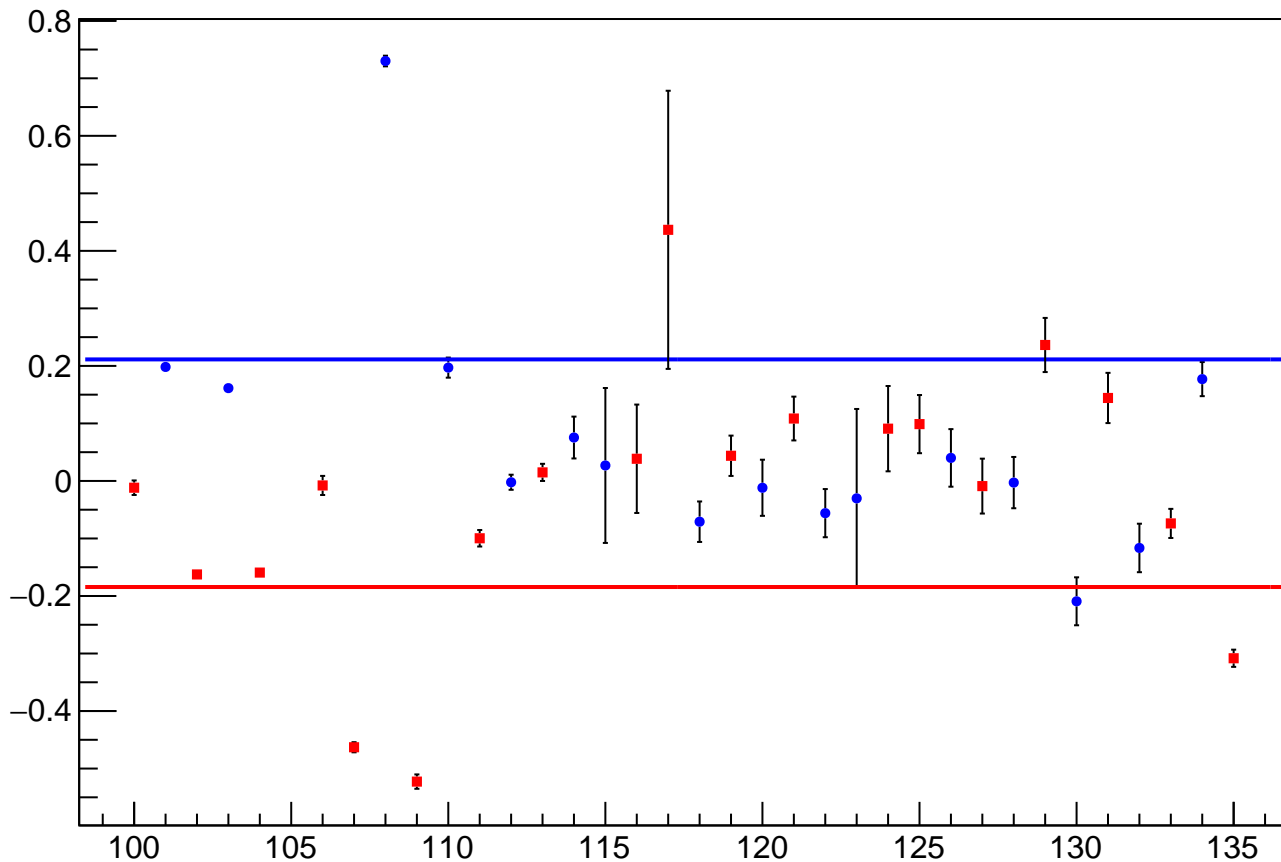
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

4.006+/-0.066  $\chi^2$ /NDF: 94778.2/15

-2.415+/-0.048  $\chi^2$ /NDF: 232088.9/34

-9.598+/-0.070  $\chi^2$ /NDF: 117420.9/18

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.211+/-0.003  $\chi^2/\text{NDF}$ : 3885.9/15

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

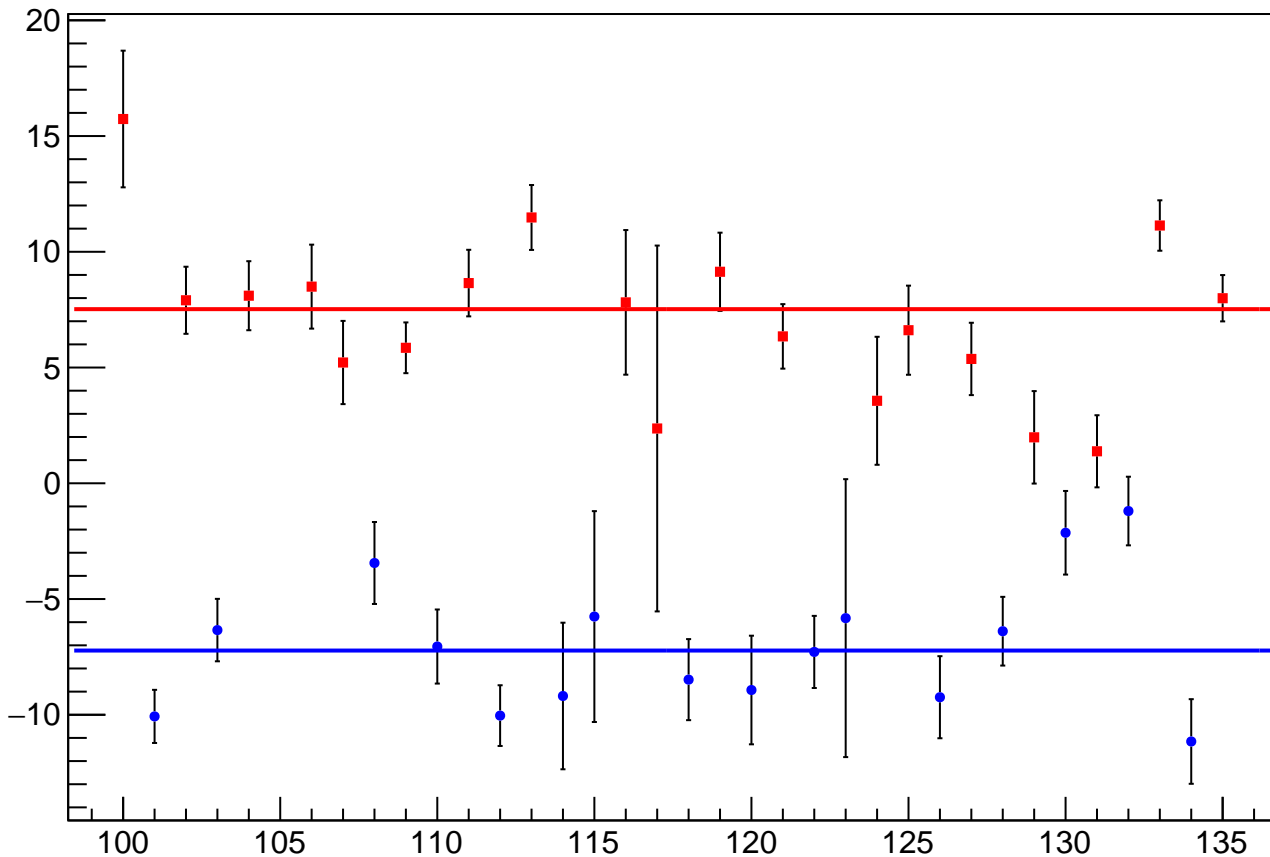
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.211+/-0.003  $\chi^2/\text{NDF}$ : 3885.9/15

0.004+/-0.002  $\chi^2/\text{NDF}$ : 16787.9/34

-0.184+/-0.003  $\chi^2/\text{NDF}$ : 2692.1/18

reg\_asym\_sam\_15\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-7.225 \pm 0.425$   $\chi^2/\text{NDF}$ : 48.0/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $7.522 \pm 0.359$   $\chi^2/\text{NDF}$ : 61.5/18

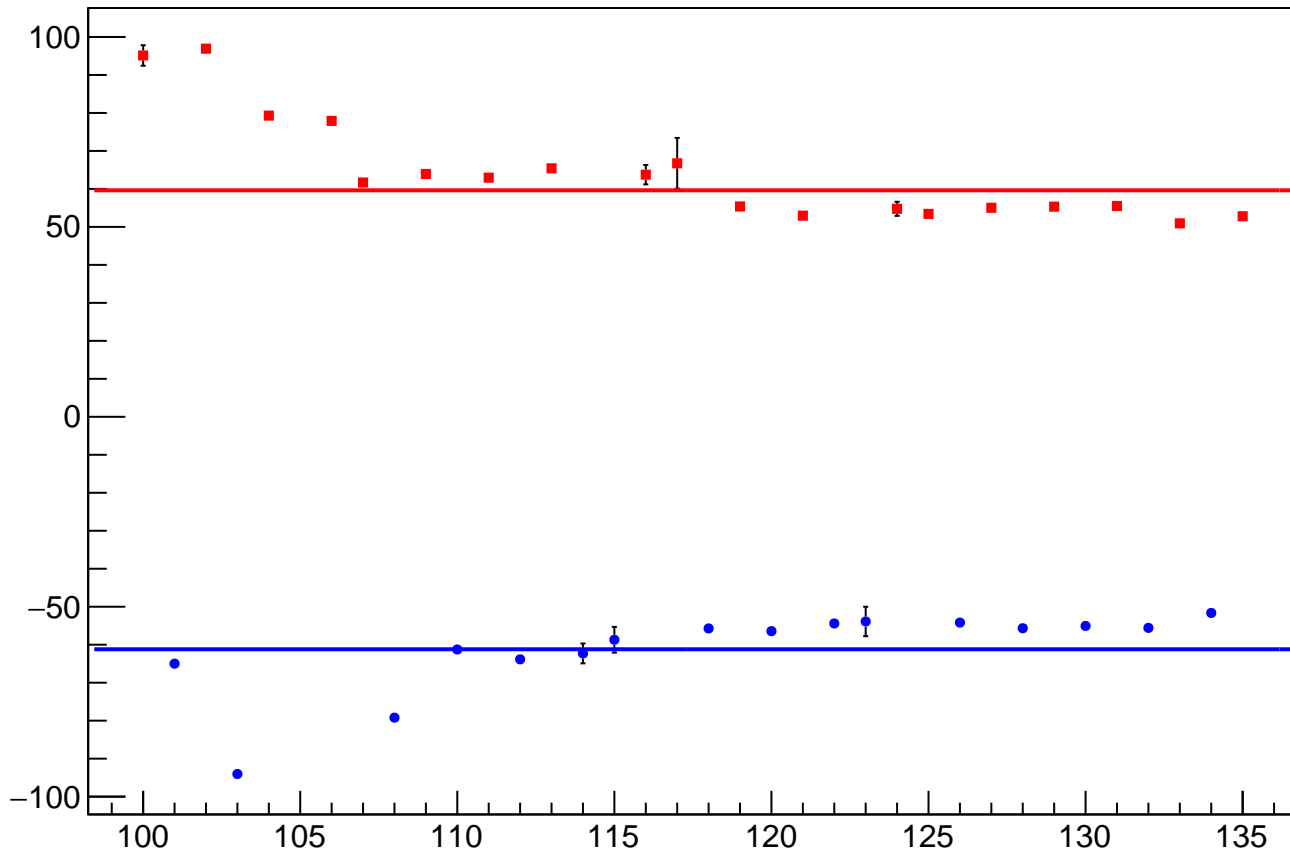
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-7.225 \pm 0.425$   $\chi^2/\text{NDF}$ : 48.0/15

$1.395 \pm 0.274$   $\chi^2/\text{NDF}$ : 812.4/34

$7.522 \pm 0.359$   $\chi^2/\text{NDF}$ : 61.5/18

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-61.201 \pm 0.248$   $\chi^2/\text{NDF}: 1836.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $59.630 \pm 0.216$   $\chi^2/\text{NDF}: 2897.4/18$

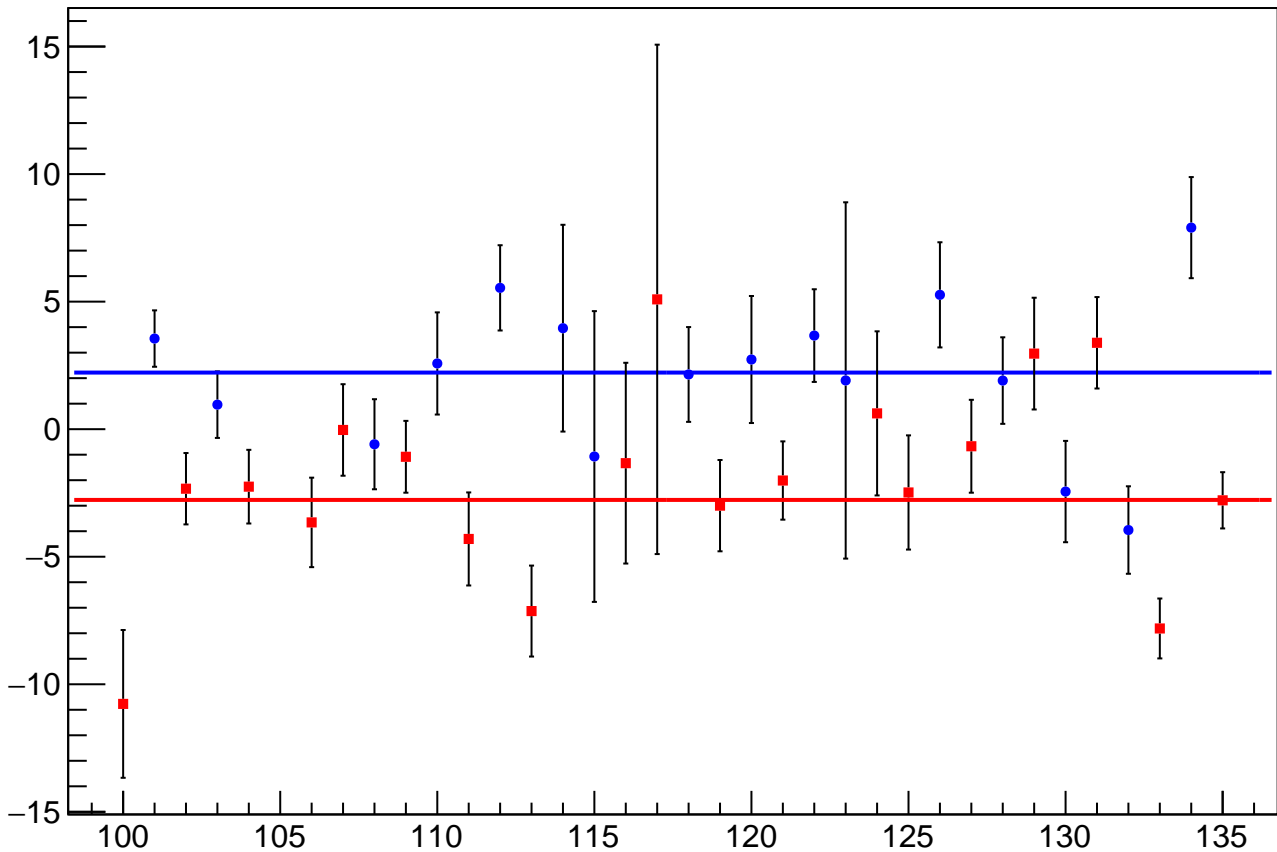
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-61.201 \pm 0.248$   $\chi^2/\text{NDF}: 1836.5/15$

$7.523 \pm 0.163$   $\chi^2/\text{NDF}: 140142.8/34$

$59.630 \pm 0.216$   $\chi^2/\text{NDF}: 2897.4/18$

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 2.219+/-0.465  $\chi^2$ /NDF: 39.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.773+/-0.397  $\chi^2$ /NDF: 59.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

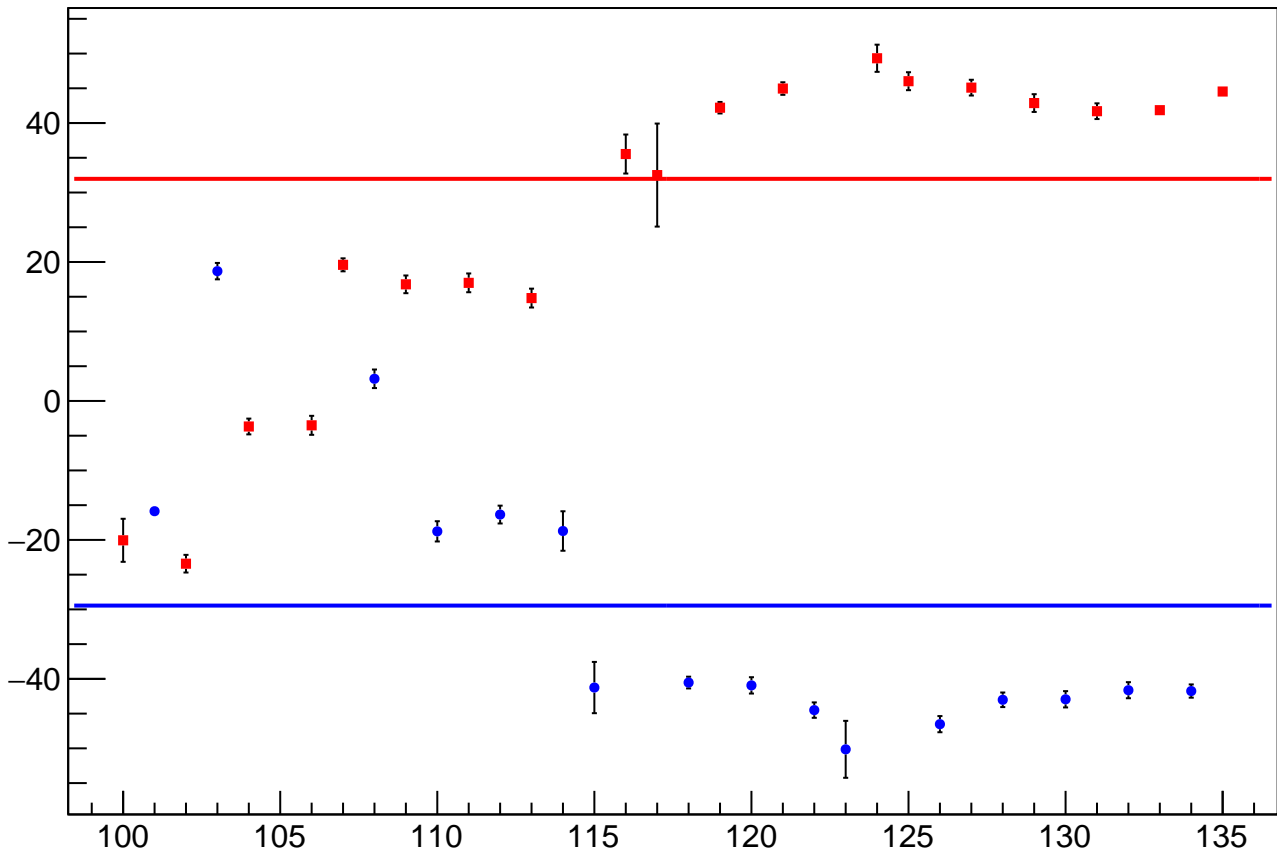
2.219+/-0.465  $\chi^2$ /NDF: 39.0/15

-0.666+/-0.302  $\chi^2$ /NDF: 164.8/34

-2.773+/-0.397  $\chi^2$ /NDF: 59.1/18



# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-29.452 \pm 0.290$   $\chi^2/\text{NDF}: 4095.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $31.969 \pm 0.250$   $\chi^2/\text{NDF}: 5936.1/18$

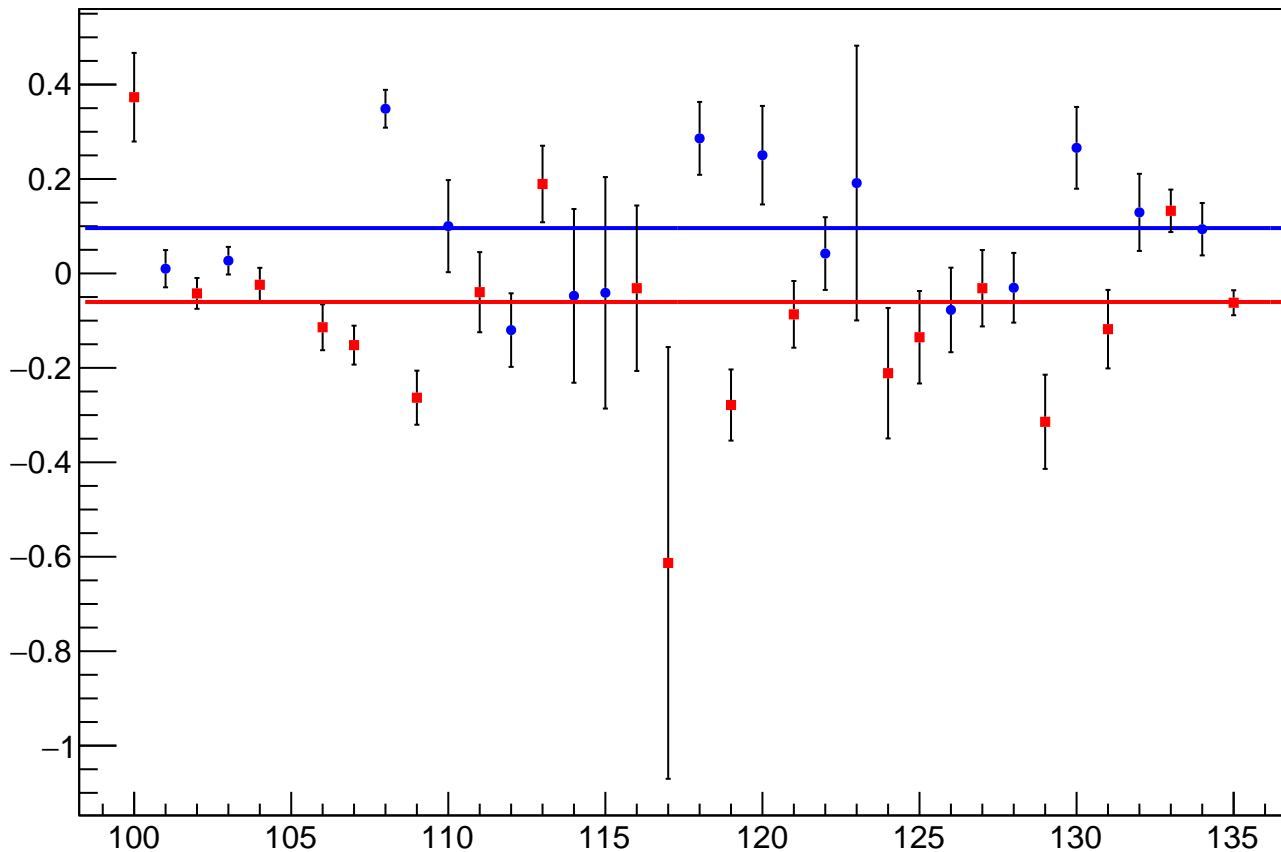
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-29.452 \pm 0.290$   $\chi^2/\text{NDF}: 4095.0/15$

$5.875 \pm 0.189$   $\chi^2/\text{NDF}: 35763.5/34$

$31.969 \pm 0.250$   $\chi^2/\text{NDF}: 5936.1/18$

# reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.096 $\pm$ 0.016  $\chi^2$ /NDF: 78.4/15

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

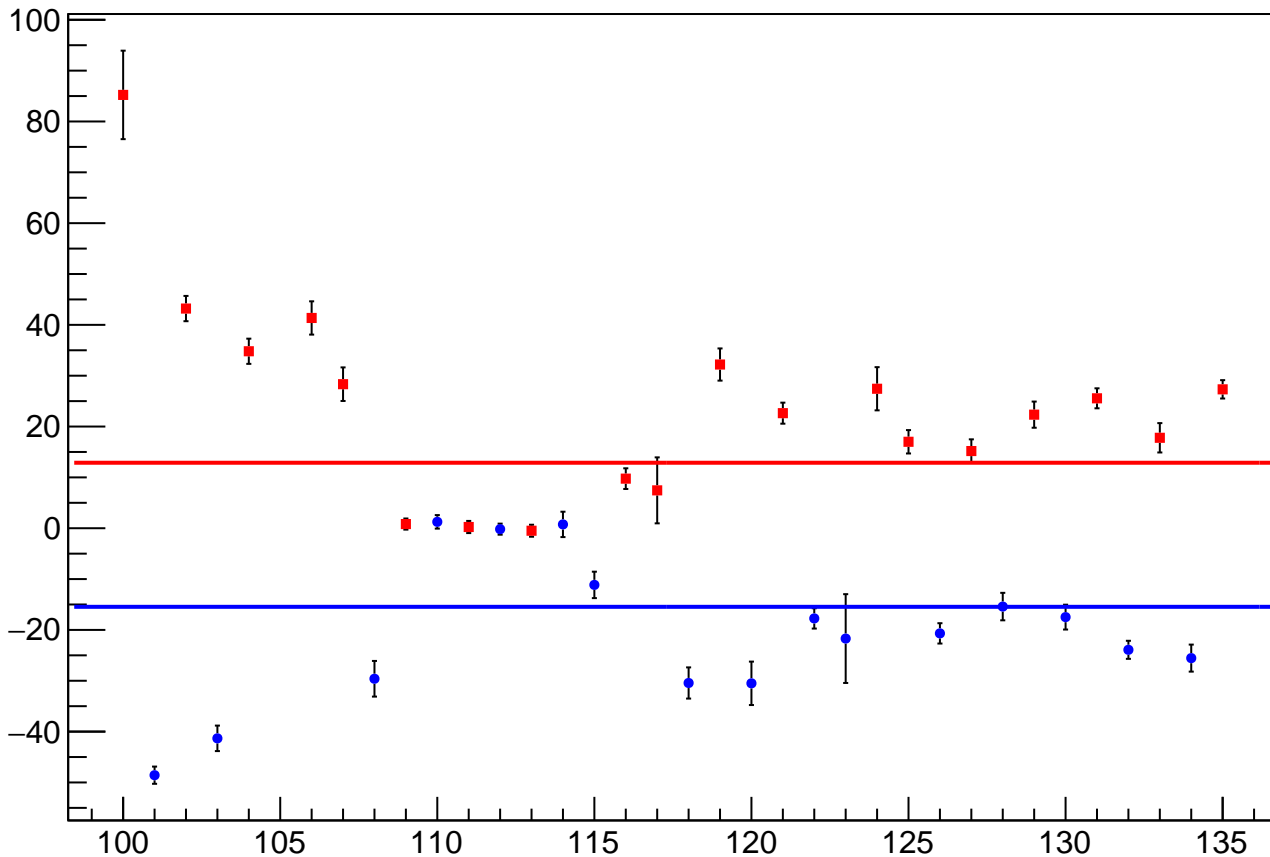
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.096 $\pm$ 0.016  $\chi^2$ /NDF: 78.4/15

0.001 $\pm$ 0.010  $\chi^2$ /NDF: 227.6/34

-0.060 $\pm$ 0.013  $\chi^2$ /NDF: 88.2/18

# reg\_asym\_sam\_37\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-15.456 \pm 0.517$   $\chi^2/\text{NDF}: 988.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $12.880 \pm 0.464$   $\chi^2/\text{NDF}: 956.6/18$

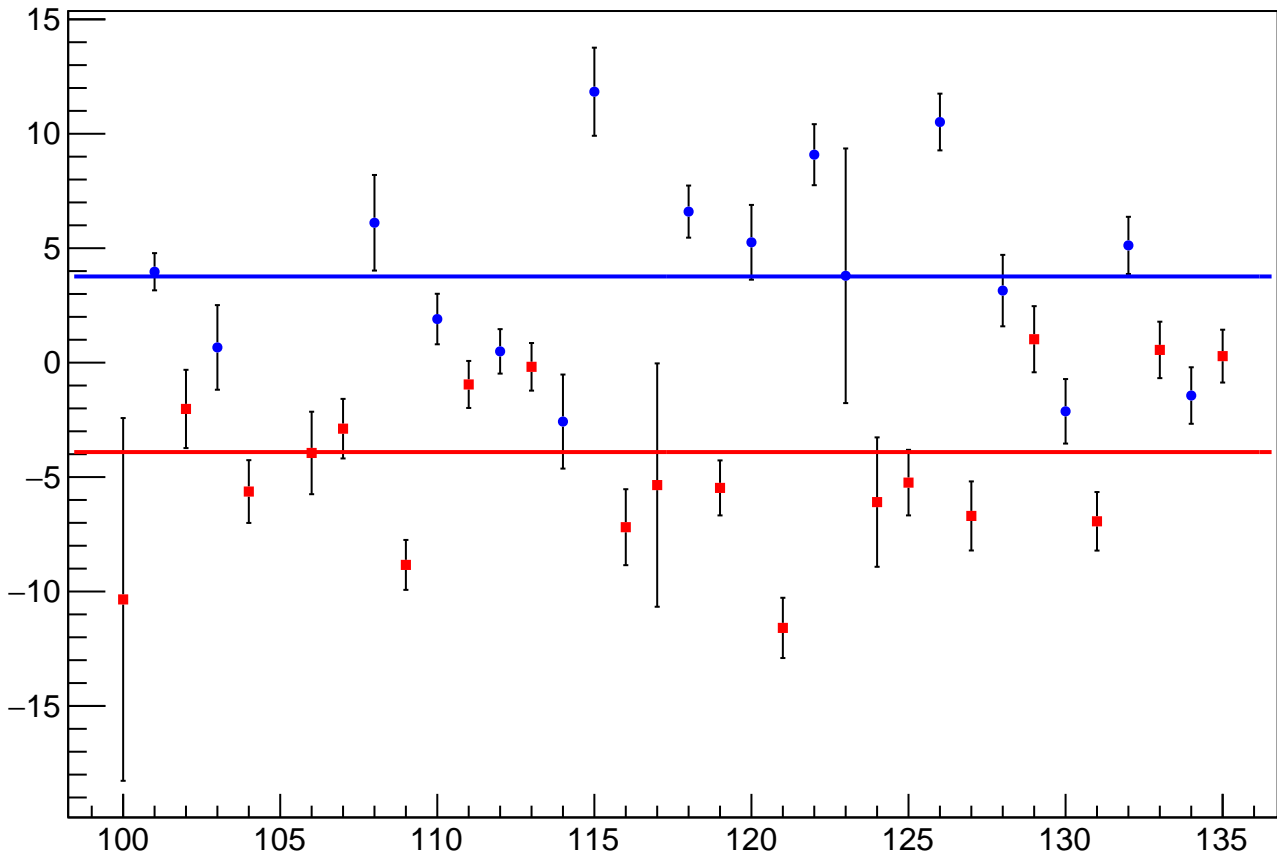
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-15.456 \pm 0.517$   $\chi^2/\text{NDF}: 988.6/15$

$0.232 \pm 0.345$   $\chi^2/\text{NDF}: 3611.7/34$

$12.880 \pm 0.464$   $\chi^2/\text{NDF}: 956.6/18$

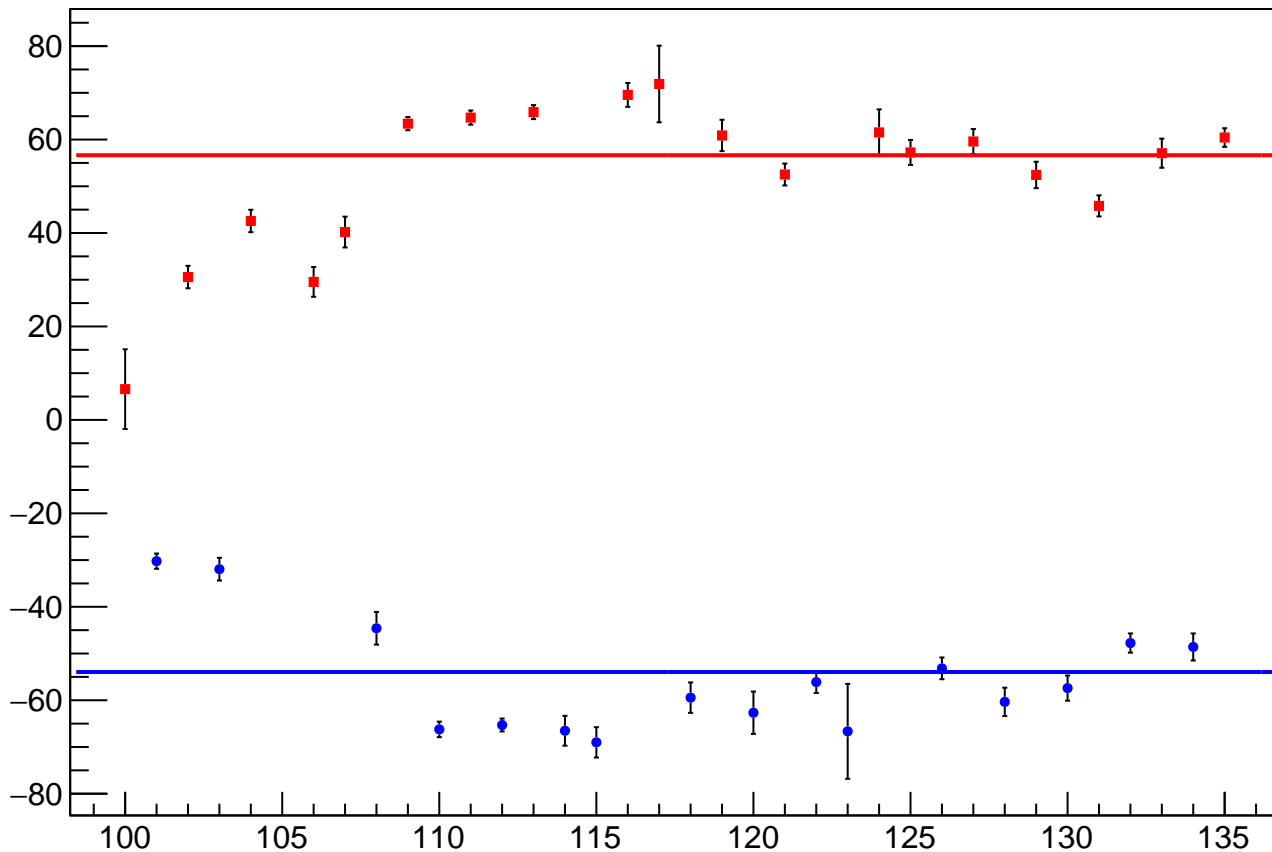
reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.765+/-0.333  $\chi^2$ /NDF: 134.6/15  
 Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 Right Out: -3.907+/-0.321  $\chi^2$ /NDF: 133.8/18  
 Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3.765+/-0.333  $\chi^2$ /NDF: 134.6/15  
 -0.213+/-0.231  $\chi^2$ /NDF: 543.8/34  
 -3.907+/-0.321  $\chi^2$ /NDF: 133.8/18

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-53.957 \pm 0.594$   $\chi^2/\text{NDF}: 487.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $56.648 \pm 0.545$   $\chi^2/\text{NDF}: 438.1/18$

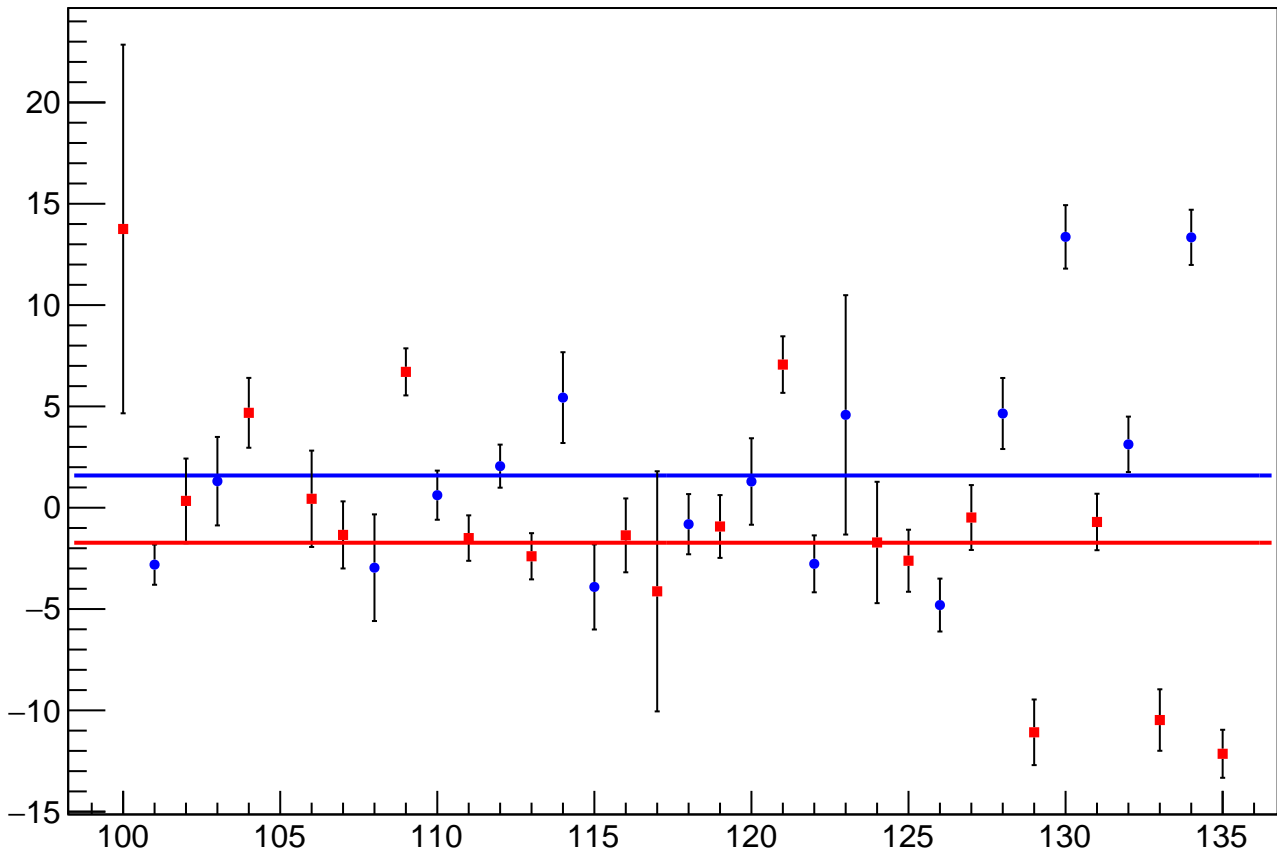
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-53.957 \pm 0.594$   $\chi^2/\text{NDF}: 487.7/15$

$6.130 \pm 0.402$   $\chi^2/\text{NDF}: 19741.6/34$

$56.648 \pm 0.545$   $\chi^2/\text{NDF}: 438.1/18$

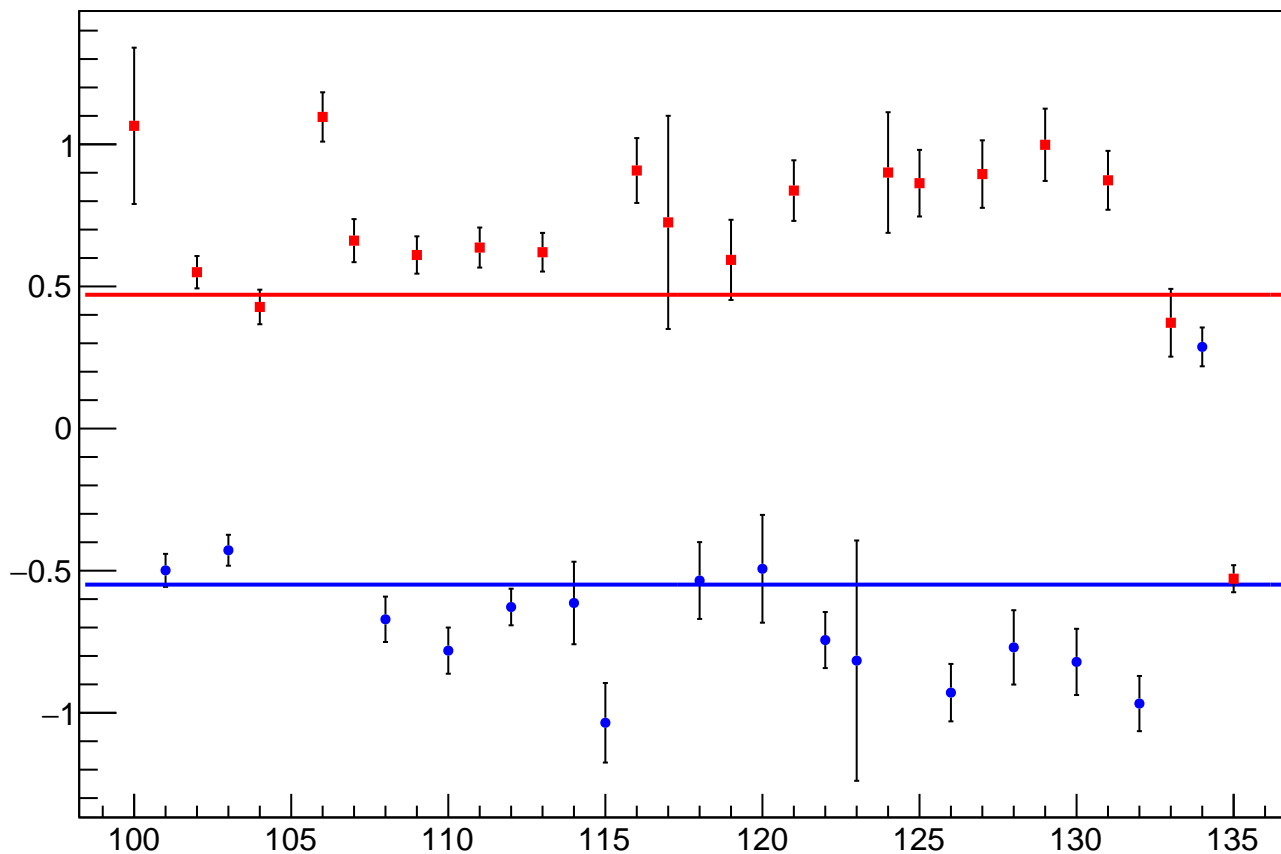
# reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 1.591+/-0.379  $\chi^2$ /NDF: 205.1/15  
 Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 Right Out: -1.727+/-0.361  $\chi^2$ /NDF: 257.3/18  
 Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1.591+/-0.379  $\chi^2$ /NDF: 205.1/15  
 -0.147+/-0.262  $\chi^2$ /NDF: 502.5/34  
 -1.727+/-0.361  $\chi^2$ /NDF: 257.3/18

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.549 \pm 0.022$   $\chi^2/\text{NDF}: 225.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.471 \pm 0.020$   $\chi^2/\text{NDF}: 609.3/18$

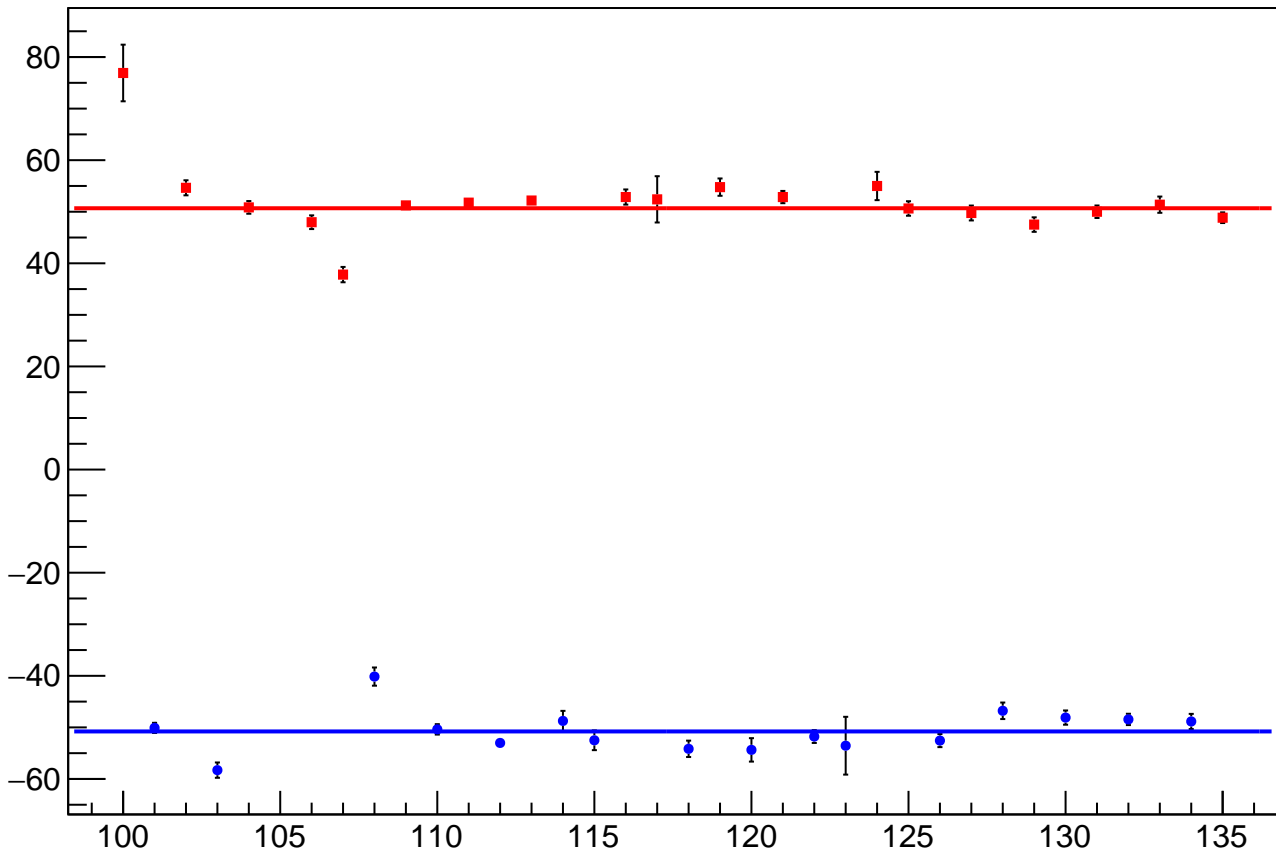
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.549 \pm 0.022$   $\chi^2/\text{NDF}: 225.3/15$

$0.025 \pm 0.015$   $\chi^2/\text{NDF}: 2019.3/34$

$0.471 \pm 0.020$   $\chi^2/\text{NDF}: 609.3/18$

# reg\_asym\_sam\_37\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-50.785 \pm 0.336$   $\chi^2/\text{NDF}: 97.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $50.678 \pm 0.300$   $\chi^2/\text{NDF}: 136.9/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

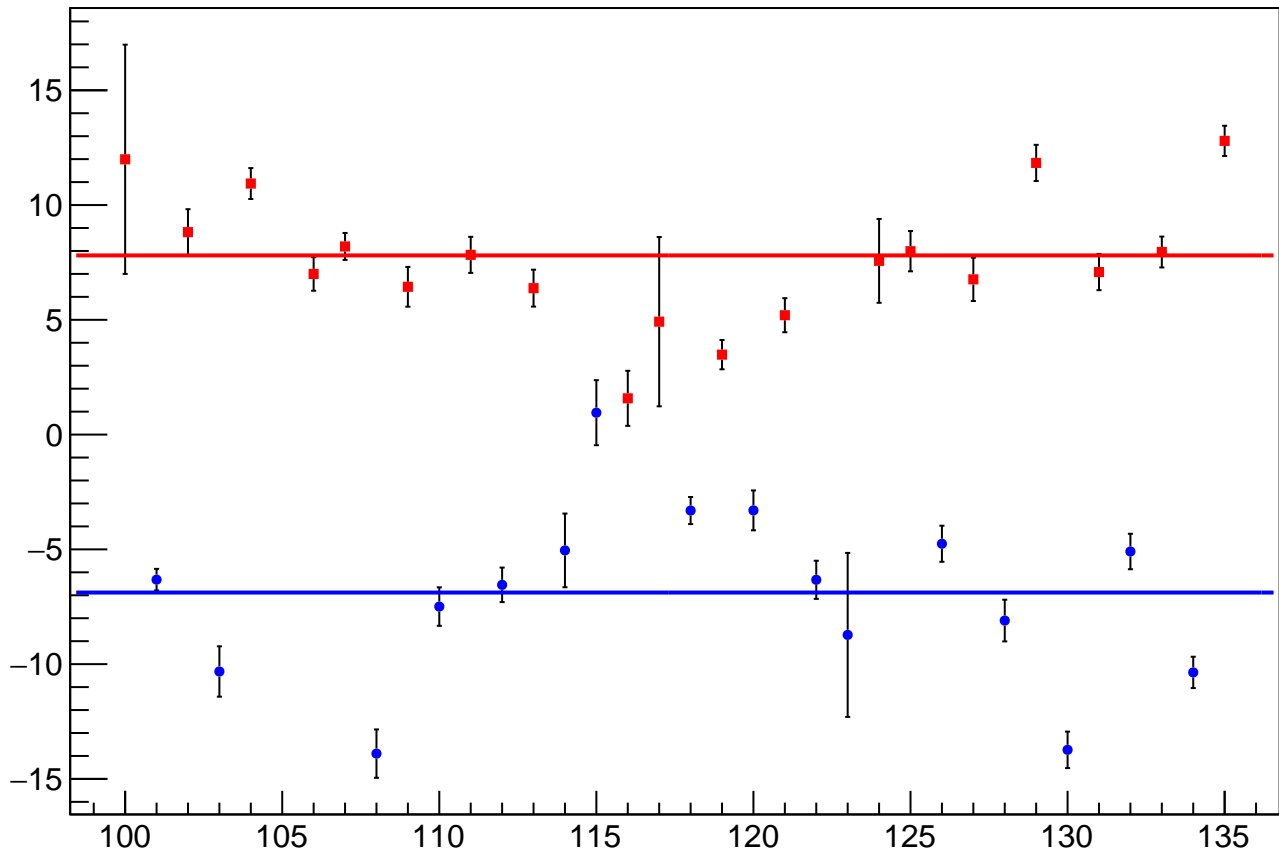
$-50.785 \pm 0.336$   $\chi^2/\text{NDF}: 97.6/15$

$5.696 \pm 0.224$   $\chi^2/\text{NDF}: 50893.8/34$

$50.678 \pm 0.300$   $\chi^2/\text{NDF}: 136.9/18$



# reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-6.881 \pm 0.203$   $\chi^2/\text{NDF}: 257.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $7.806 \pm 0.189$   $\chi^2/\text{NDF}: 202.1/18$

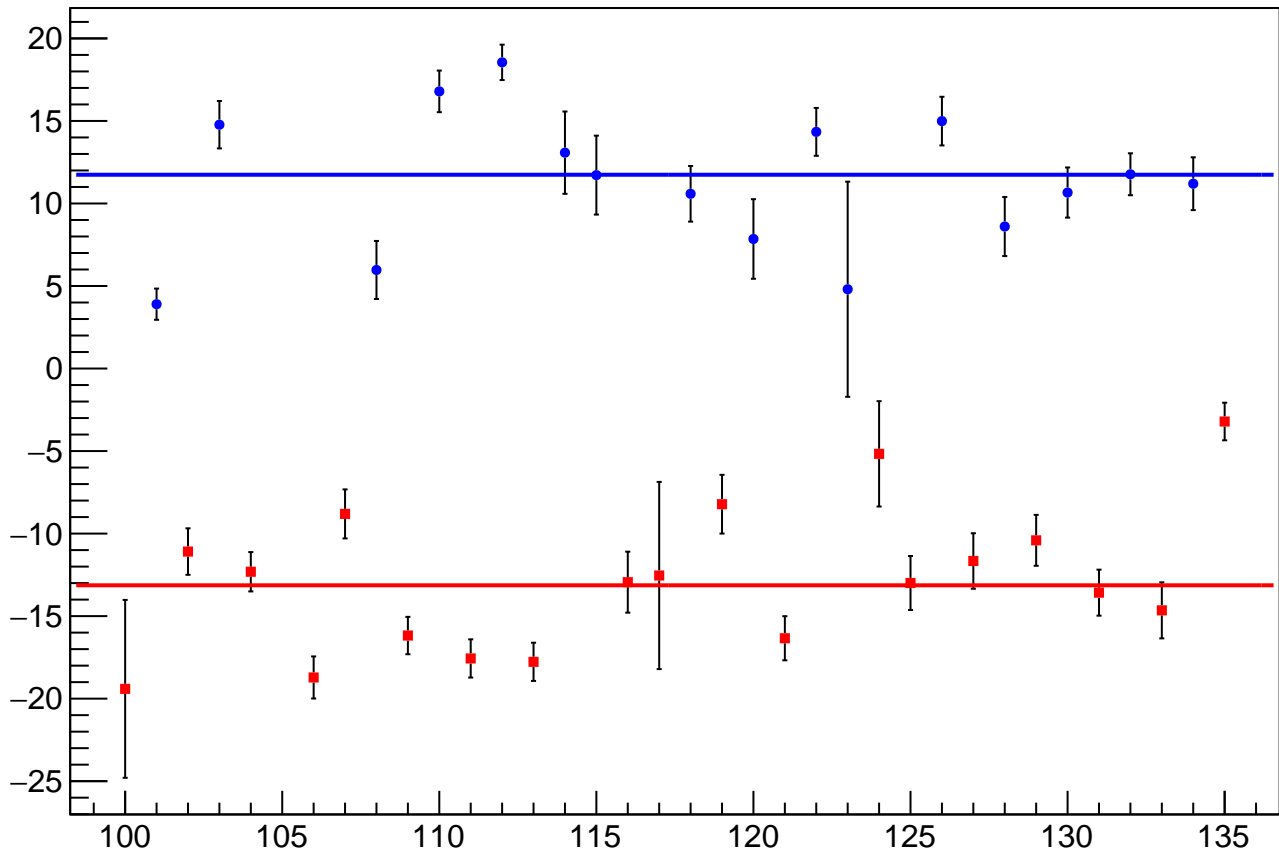
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-6.881 \pm 0.203$   $\chi^2/\text{NDF}: 257.3/15$

$0.985 \pm 0.138$   $\chi^2/\text{NDF}: 3265.7/34$

$7.806 \pm 0.189$   $\chi^2/\text{NDF}: 202.1/18$

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 11.741 $\pm$ 0.378  $\chi^2$ /NDF: 156.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -13.133 $\pm$ 0.340  $\chi^2$ /NDF: 169.9/18

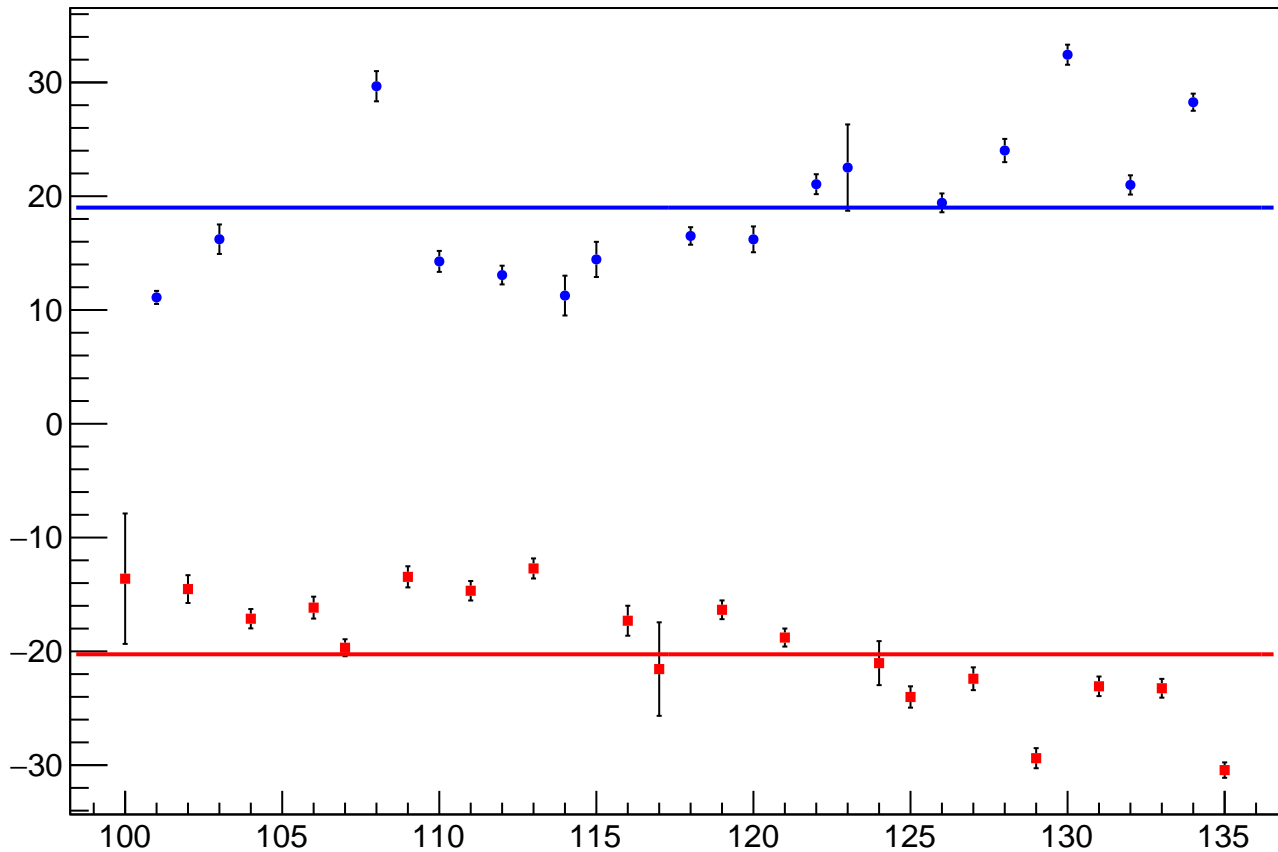
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

11.741 $\pm$ 0.378  $\chi^2$ /NDF: 156.7/15

-2.014 $\pm$ 0.253  $\chi^2$ /NDF: 2722.2/34

-13.133 $\pm$ 0.340  $\chi^2$ /NDF: 169.9/18

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 18.998 $\pm$ 0.234  $\chi^2$ /NDF: 800.1/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -20.259 $\pm$ 0.217  $\chi^2$ /NDF: 634.1/18

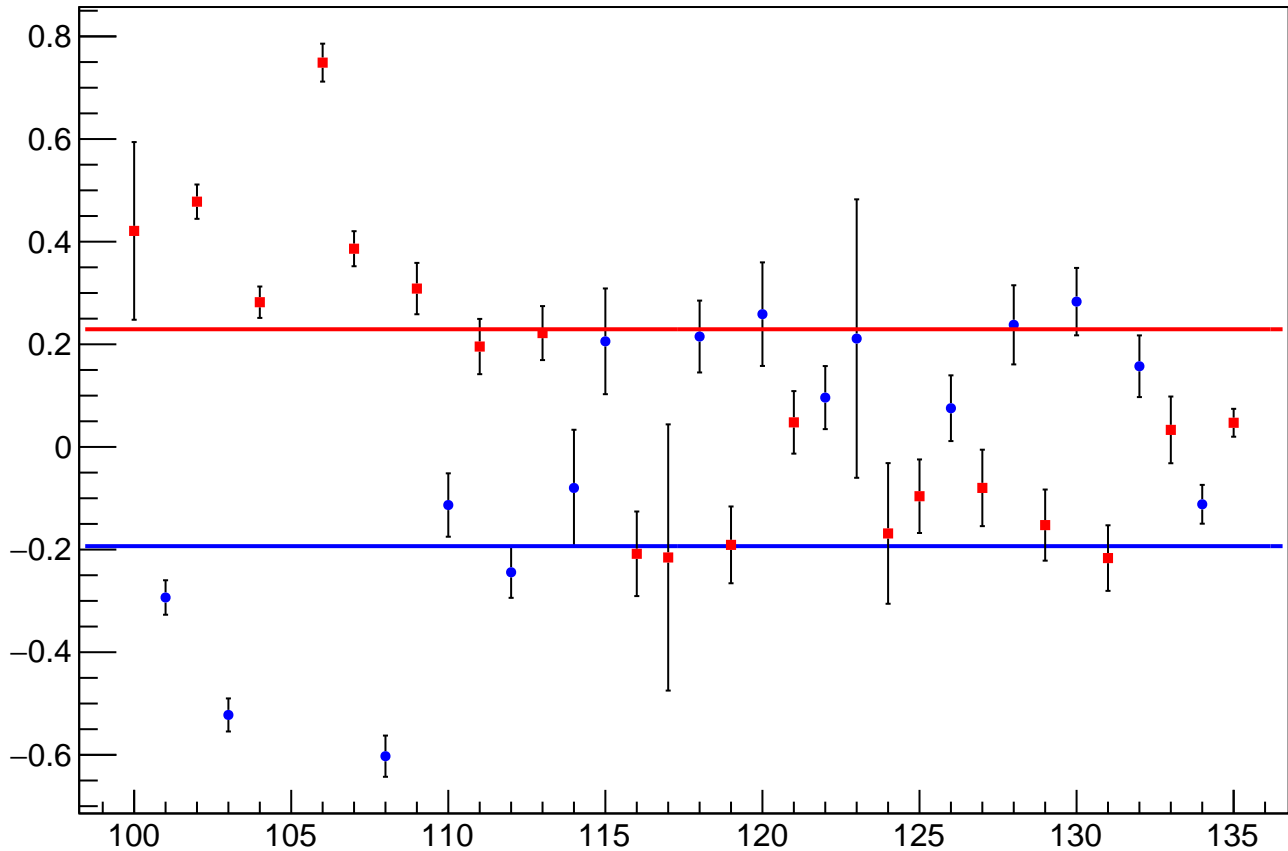
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

18.998 $\pm$ 0.234  $\chi^2$ /NDF: 800.1/15

-2.056 $\pm$ 0.159  $\chi^2$ /NDF: 16550.8/34

-20.259 $\pm$ 0.217  $\chi^2$ /NDF: 634.1/18

# reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.193 \pm 0.013$   $\chi^2/\text{NDF}: 454.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.229 \pm 0.011$   $\chi^2/\text{NDF}: 531.9/18$

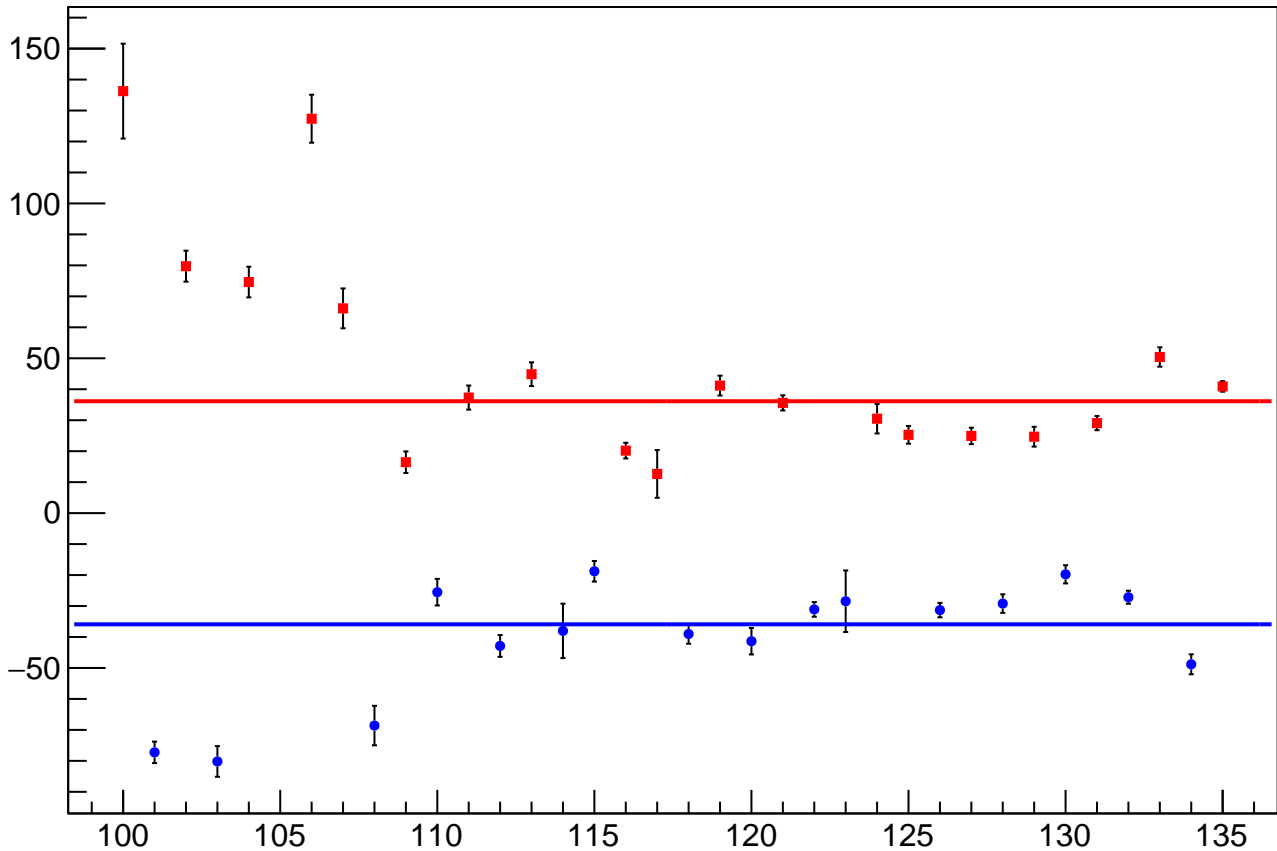
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.193 \pm 0.013$   $\chi^2/\text{NDF}: 454.5/15$

$0.054 \pm 0.009$   $\chi^2/\text{NDF}: 1562.2/34$

$0.229 \pm 0.011$   $\chi^2/\text{NDF}: 531.9/18$

reg\_asym\_sam\_26\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-35.904 \pm 0.826$   $\chi^2/\text{NDF}: 363.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $36.134 \pm 0.740$   $\chi^2/\text{NDF}: 512.9/18$

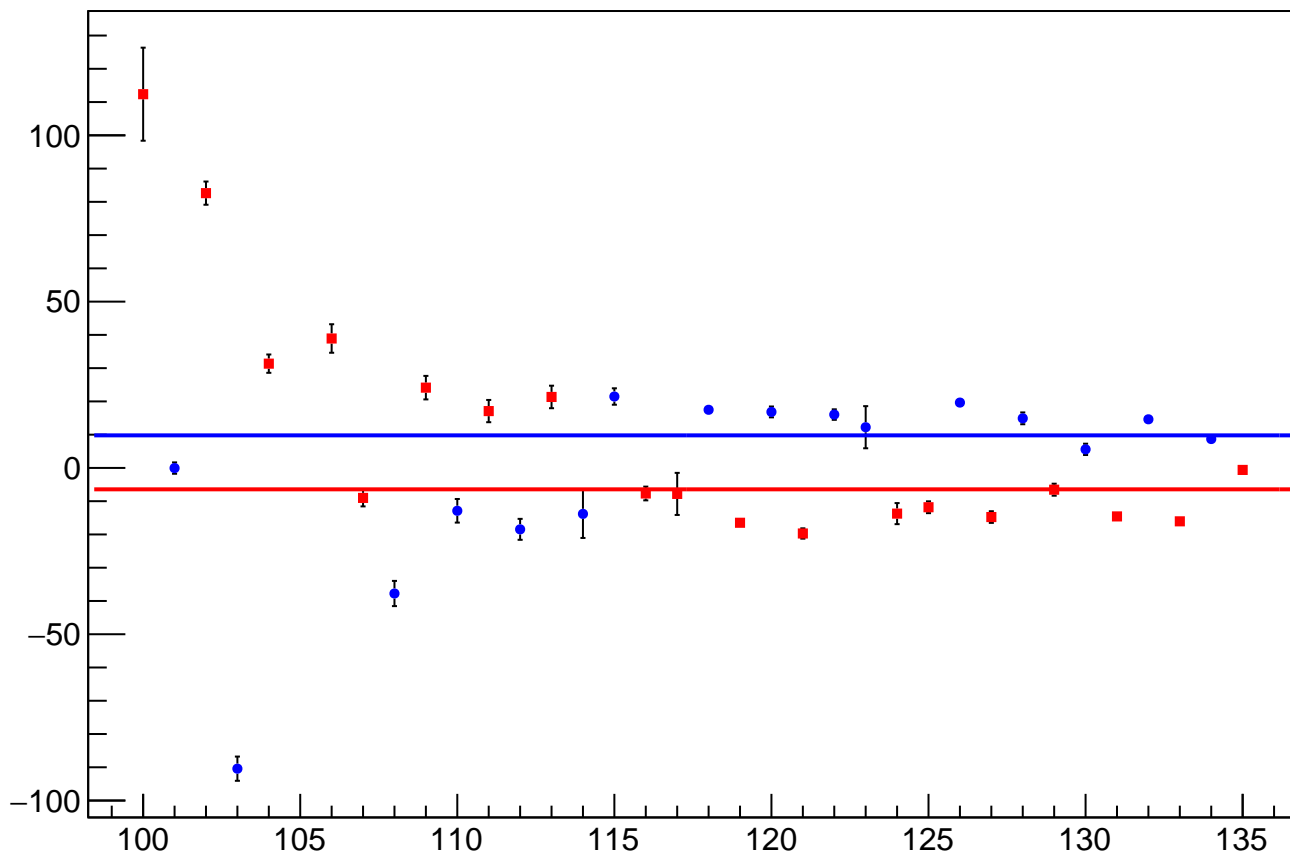
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-35.904 \pm 0.826$   $\chi^2/\text{NDF}: 363.8/15$

$4.062 \pm 0.551$   $\chi^2/\text{NDF}: 5094.9/34$

$36.134 \pm 0.740$   $\chi^2/\text{NDF}: 512.9/18$

# reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 9.794+/-0.475  $\chi^2$ /NDF: 1251.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -6.435+/-0.451  $\chi^2$ /NDF: 1504.3/18

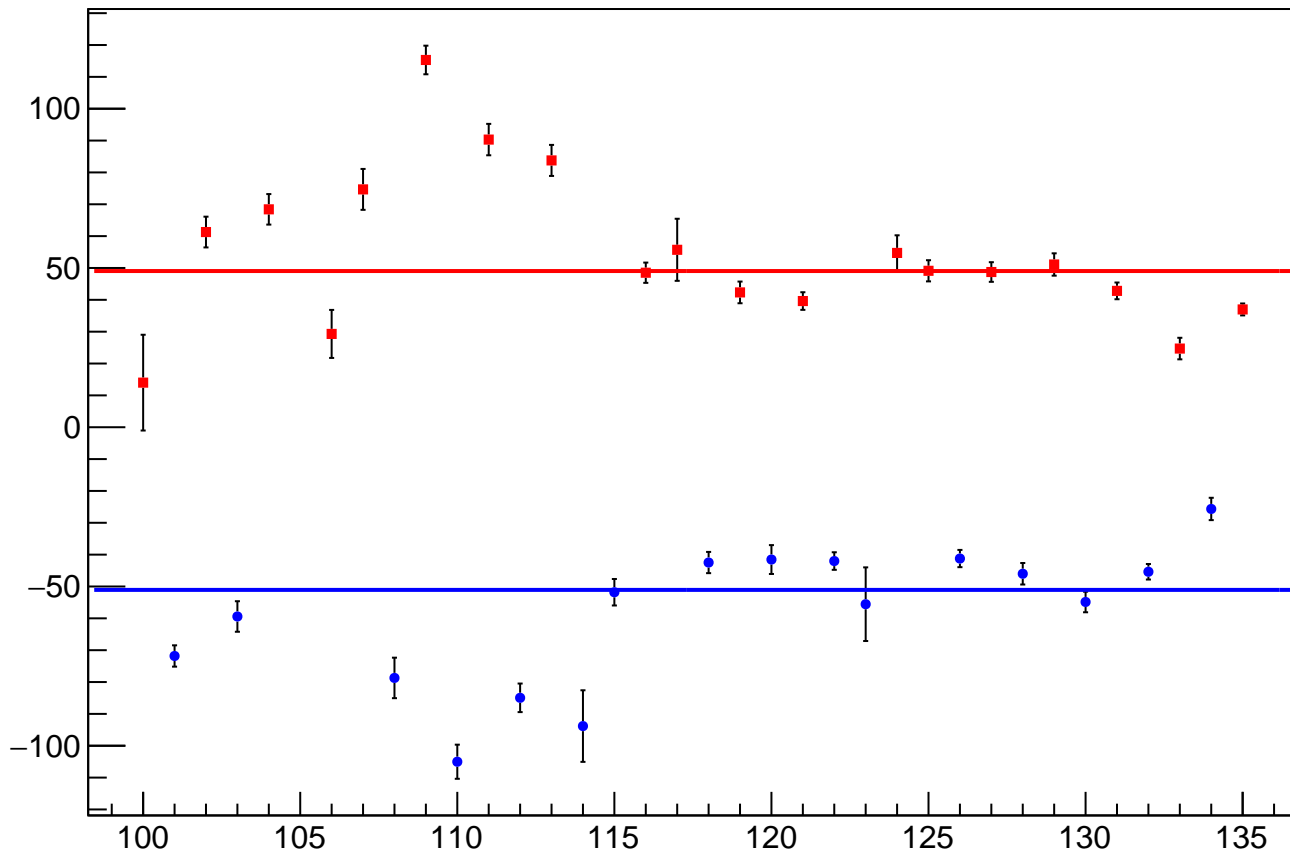
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

9.794+/-0.475  $\chi^2$ /NDF: 1251.9/15

1.257+/-0.327  $\chi^2$ /NDF: 3370.8/34

-6.435+/-0.451  $\chi^2$ /NDF: 1504.3/18

reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-51.070 \pm 0.931$   $\chi^2/\text{NDF}: 330.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $49.039 \pm 0.839$   $\chi^2/\text{NDF}: 505.9/18$

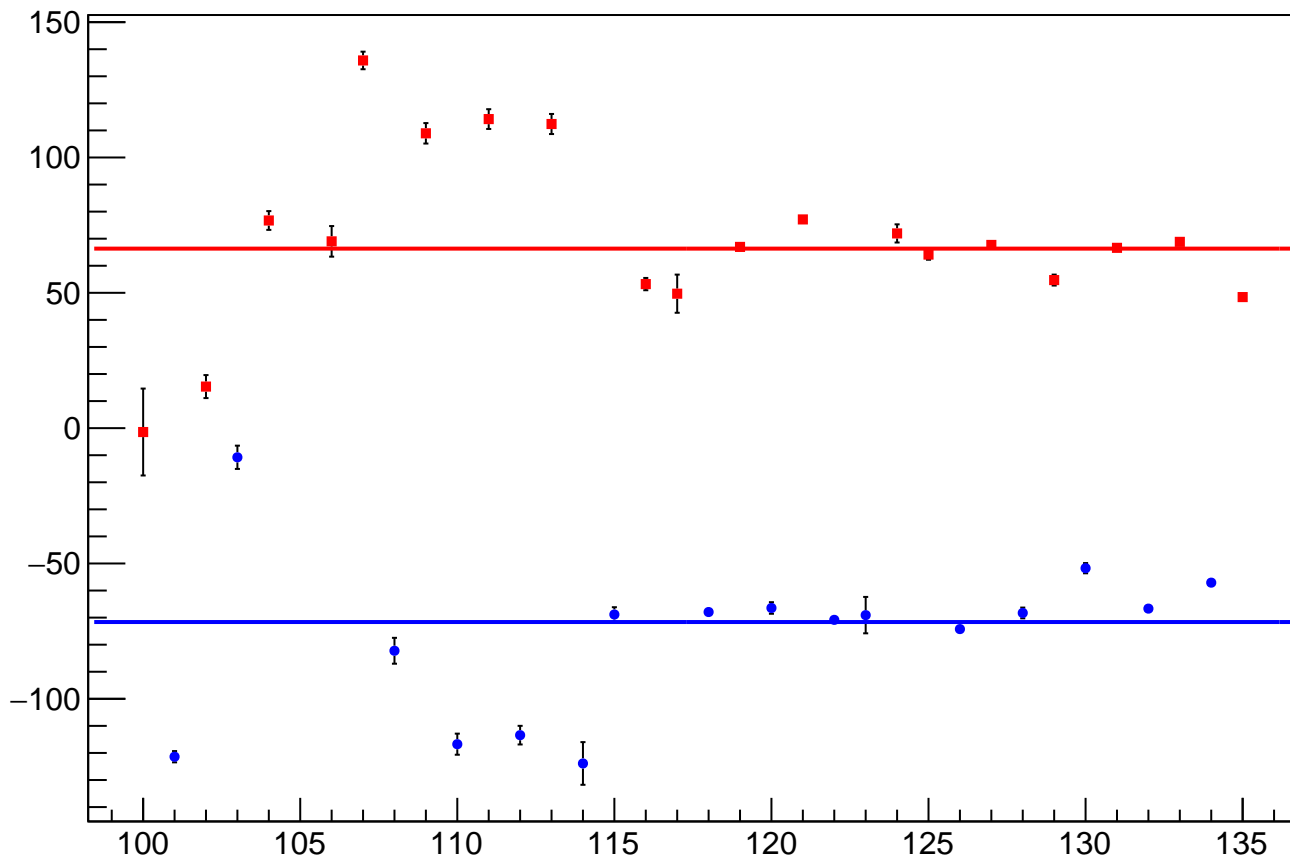
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-51.070 \pm 0.931$   $\chi^2/\text{NDF}: 330.2/15$

$4.127 \pm 0.623$   $\chi^2/\text{NDF}: 7217.4/34$

$49.039 \pm 0.839$   $\chi^2/\text{NDF}: 505.9/18$

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-71.633 \pm 0.544$   $\chi^2/\text{NDF}: 1317.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $66.330 \pm 0.505$   $\chi^2/\text{NDF}: 1459.4/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

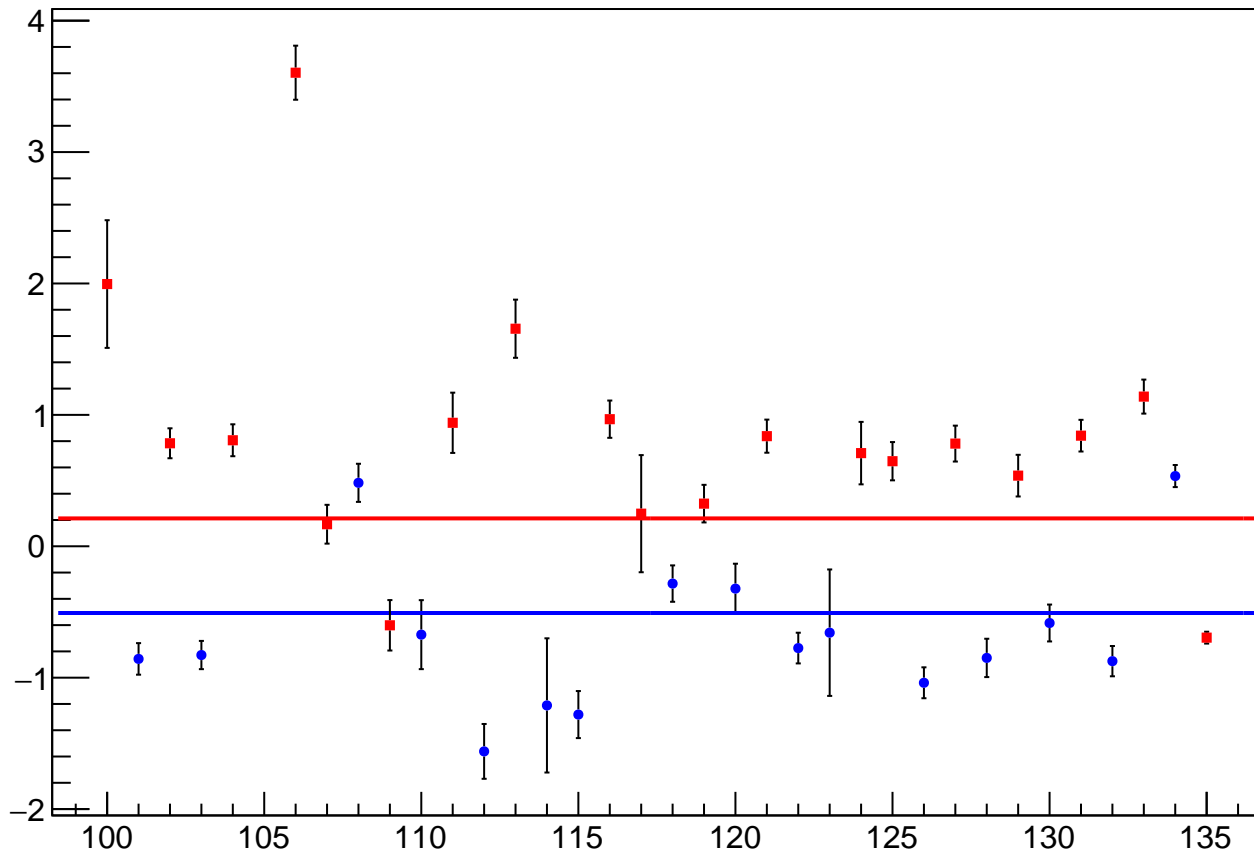
$-71.633 \pm 0.544$   $\chi^2/\text{NDF}: 1317.7/15$

$2.429 \pm 0.370$   $\chi^2/\text{NDF}: 37280.9/34$

$66.330 \pm 0.505$   $\chi^2/\text{NDF}: 1459.4/18$



# reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.508 \pm 0.035$   $\chi^2/\text{NDF}: 309.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.212 \pm 0.029$   $\chi^2/\text{NDF}: 976.2/18$

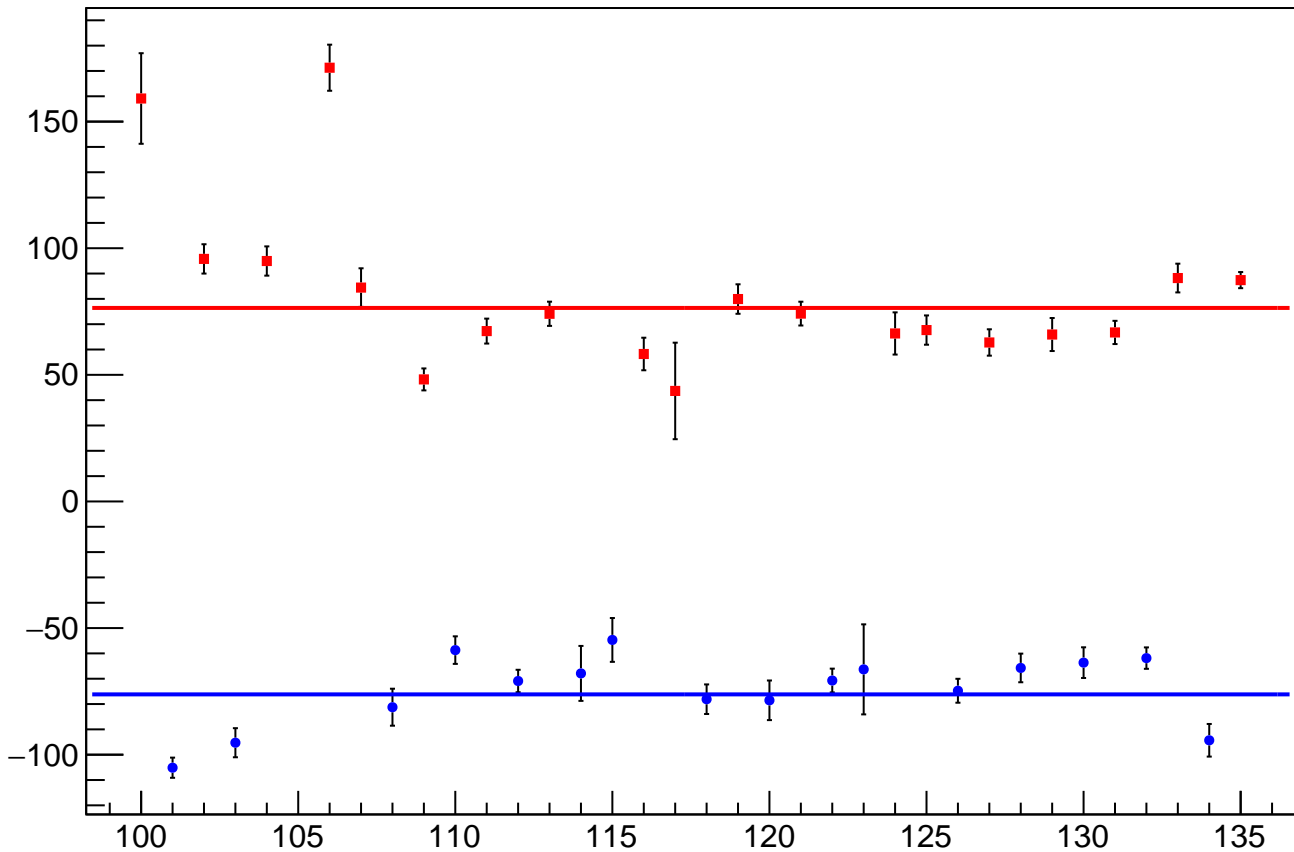
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.508 \pm 0.035$   $\chi^2/\text{NDF}: 309.3/15$

$-0.076 \pm 0.022$   $\chi^2/\text{NDF}: 1540.4/34$

$0.212 \pm 0.029$   $\chi^2/\text{NDF}: 976.2/18$

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-76.185 \pm 1.420$   $\chi^2/\text{NDF}: 111.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $76.420 \pm 1.276$   $\chi^2/\text{NDF}: 244.1/18$

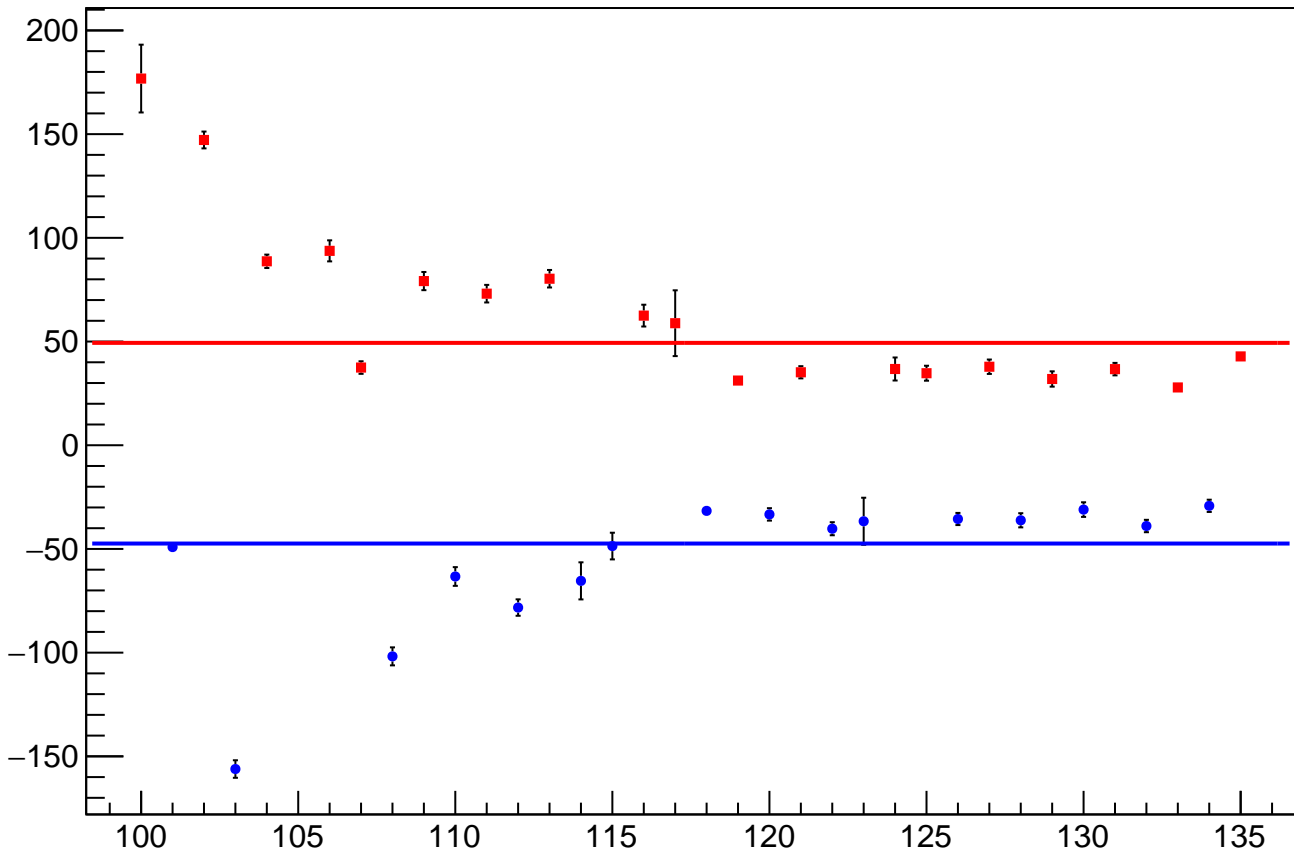
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-76.185 \pm 1.420$   $\chi^2/\text{NDF}: 111.9/15$

$8.227 \pm 0.949$   $\chi^2/\text{NDF}: 6748.4/34$

$76.420 \pm 1.276$   $\chi^2/\text{NDF}: 244.1/18$

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-47.396 \pm 0.827$   $\chi^2/\text{NDF}: 1072.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $49.356 \pm 0.787$   $\chi^2/\text{NDF}: 1272.6/18$

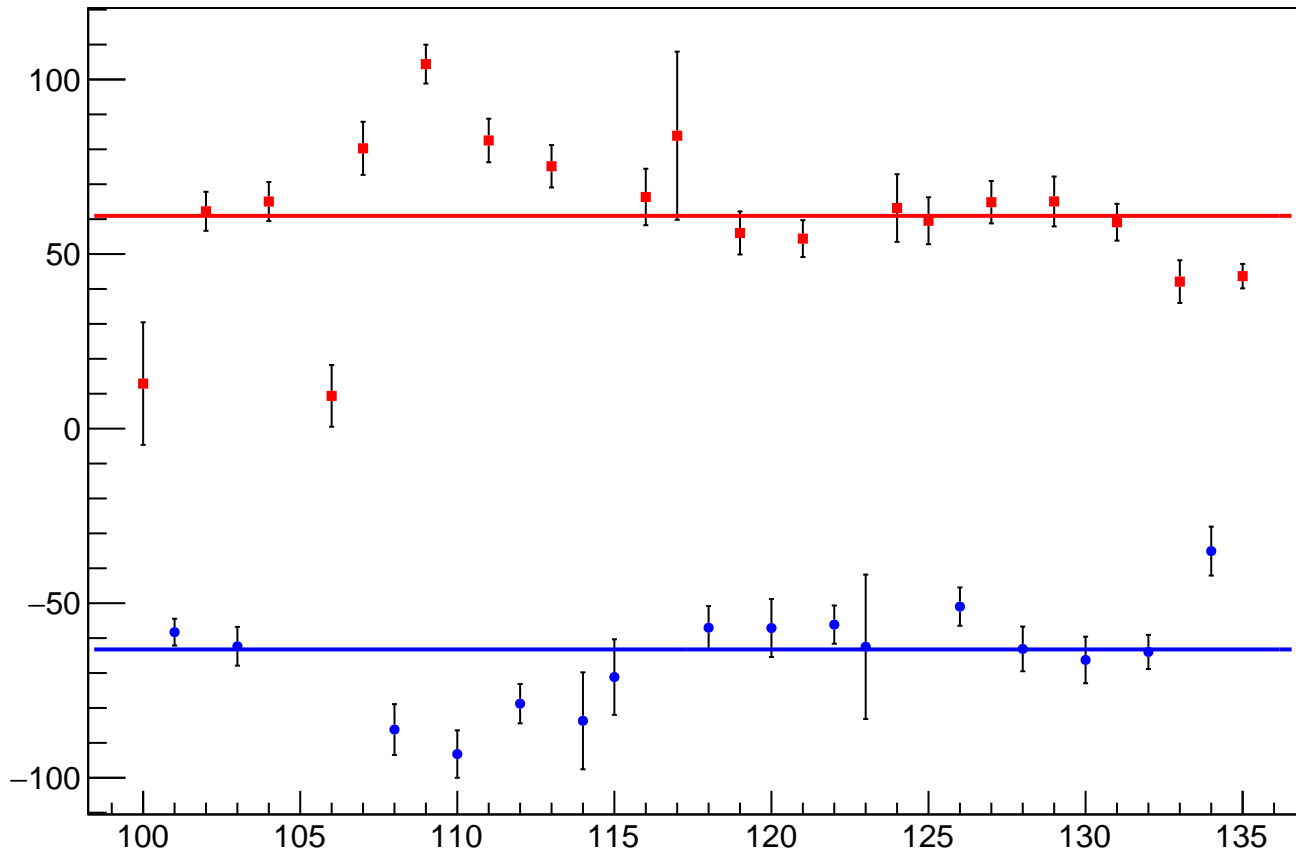
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-47.396 \pm 0.827$   $\chi^2/\text{NDF}: 1072.0/15$

$3.403 \pm 0.570$   $\chi^2/\text{NDF}: 9529.1/34$

$49.356 \pm 0.787$   $\chi^2/\text{NDF}: 1272.6/18$

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -63.239 $\pm$ 1.572  $\chi^2/\text{NDF}$ : 66.0/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 60.947 $\pm$ 1.436  $\chi^2/\text{NDF}$ : 165.2/18

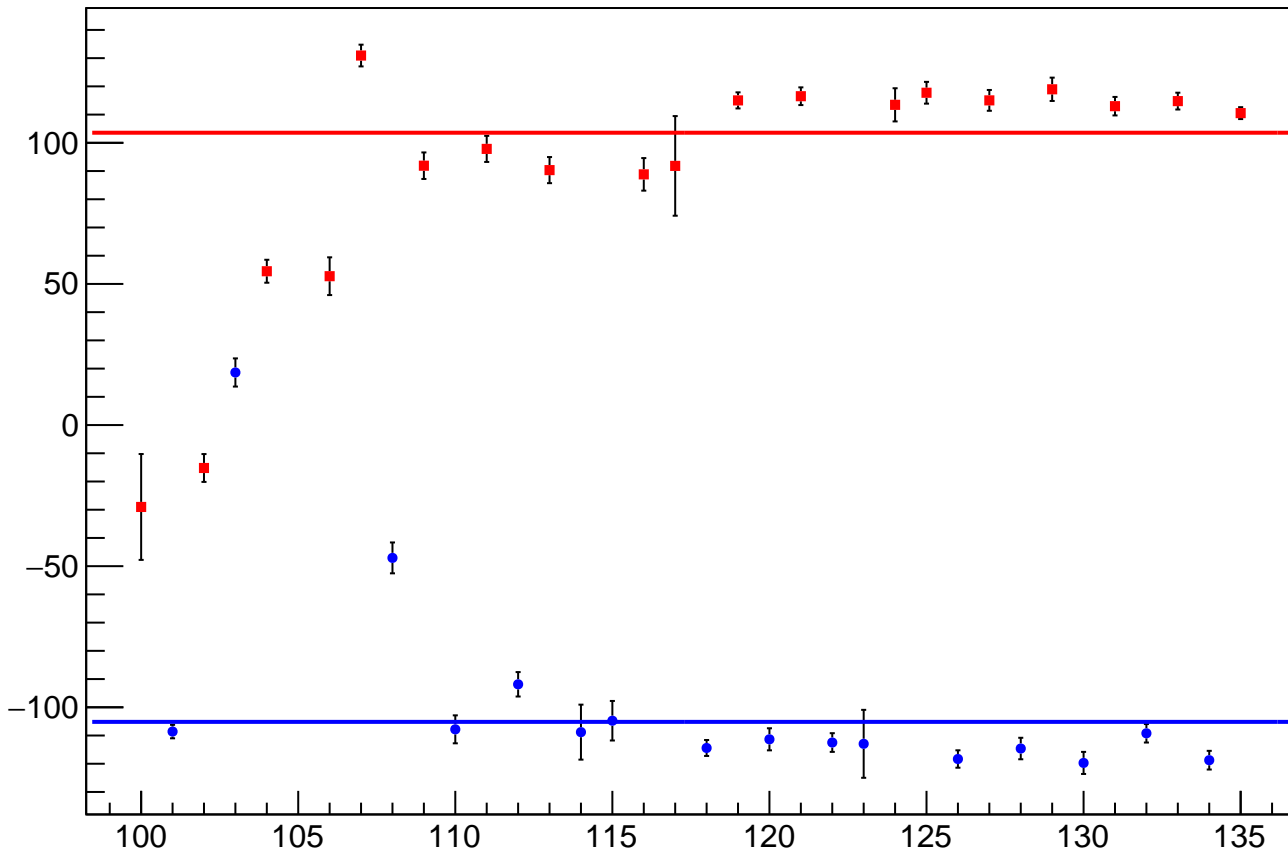
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

-63.239 $\pm$ 1.572  $\chi^2/\text{NDF}$ : 66.0/15

4.477 $\pm$ 1.060  $\chi^2/\text{NDF}$ : 3632.3/34

60.947 $\pm$ 1.436  $\chi^2/\text{NDF}$ : 165.2/18

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-105.166 \pm 0.960$   $\chi^2/\text{NDF}: 814.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $103.578 \pm 0.894$   $\chi^2/\text{NDF}: 1012.1/18$

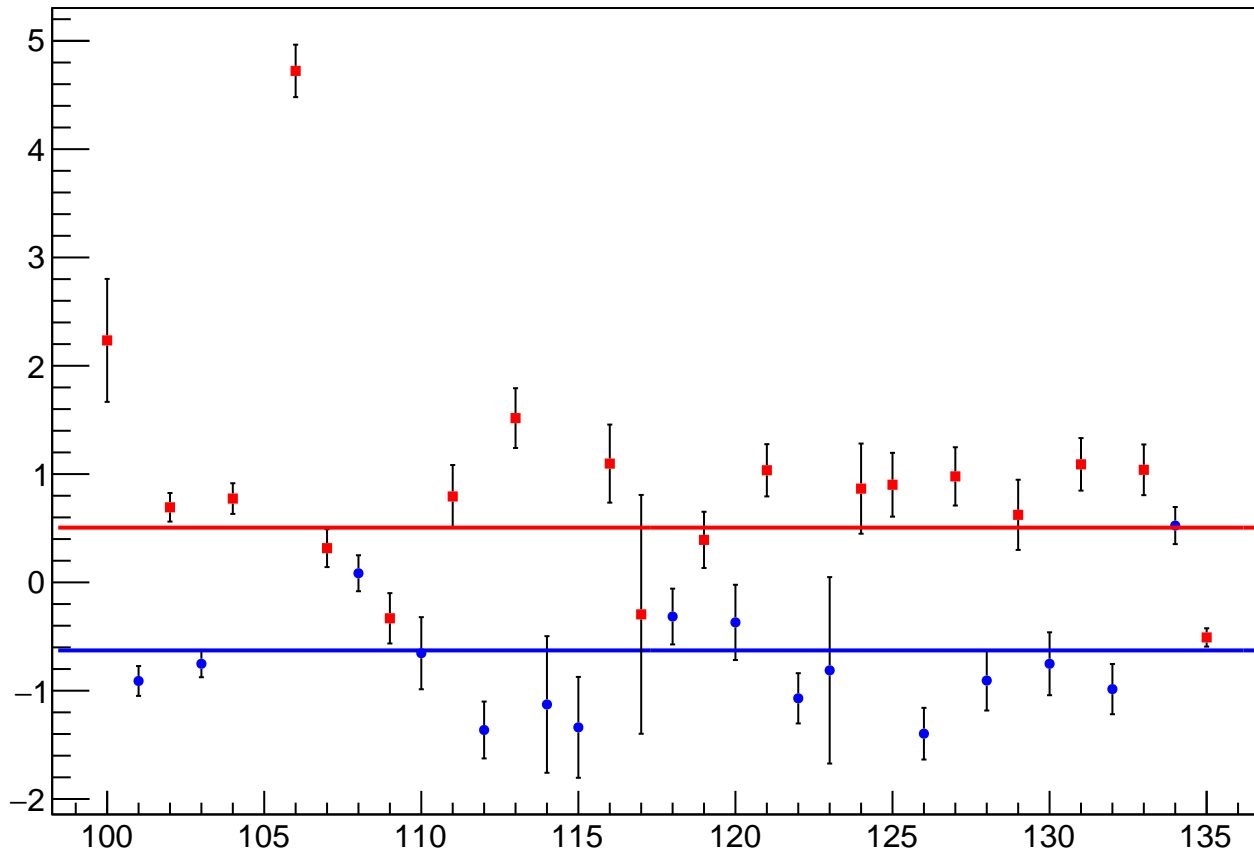
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-105.166 \pm 0.960$   $\chi^2/\text{NDF}: 814.6/15$

$6.567 \pm 0.654$   $\chi^2/\text{NDF}: 27144.6/34$

$103.578 \pm 0.894$   $\chi^2/\text{NDF}: 1012.1/18$

# reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.628 \pm 0.056$   $\chi^2/\text{NDF}: 99.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.506 \pm 0.047$   $\chi^2/\text{NDF}: 515.3/18$

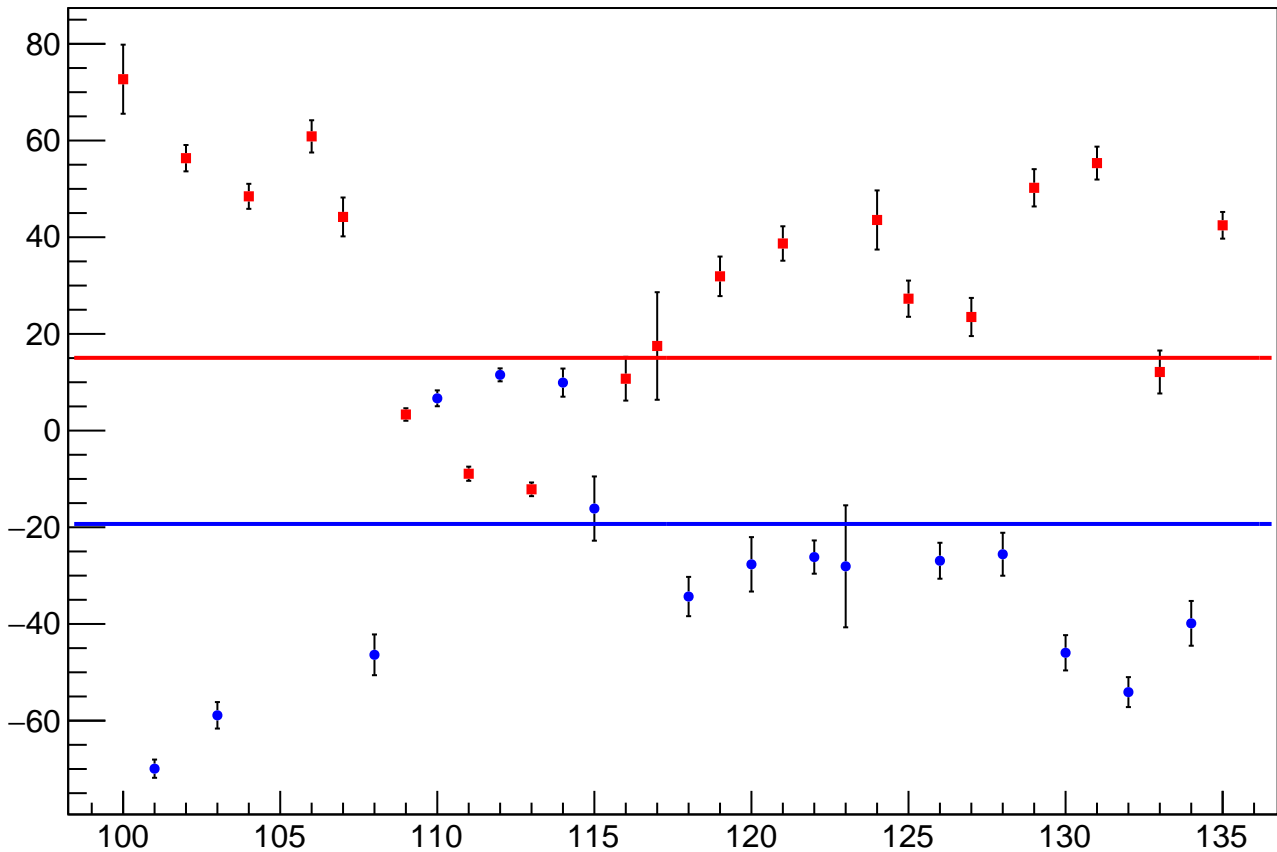
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.628 \pm 0.056$   $\chi^2/\text{NDF}: 99.3/15$

$0.038 \pm 0.036$   $\chi^2/\text{NDF}: 858.4/34$

$0.506 \pm 0.047$   $\chi^2/\text{NDF}: 515.3/18$

# reg\_asym\_sam\_48\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-19.312 \pm 0.695$   $\chi^2/\text{NDF}: 2076.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $15.049 \pm 0.607$   $\chi^2/\text{NDF}: 1843.2/18$

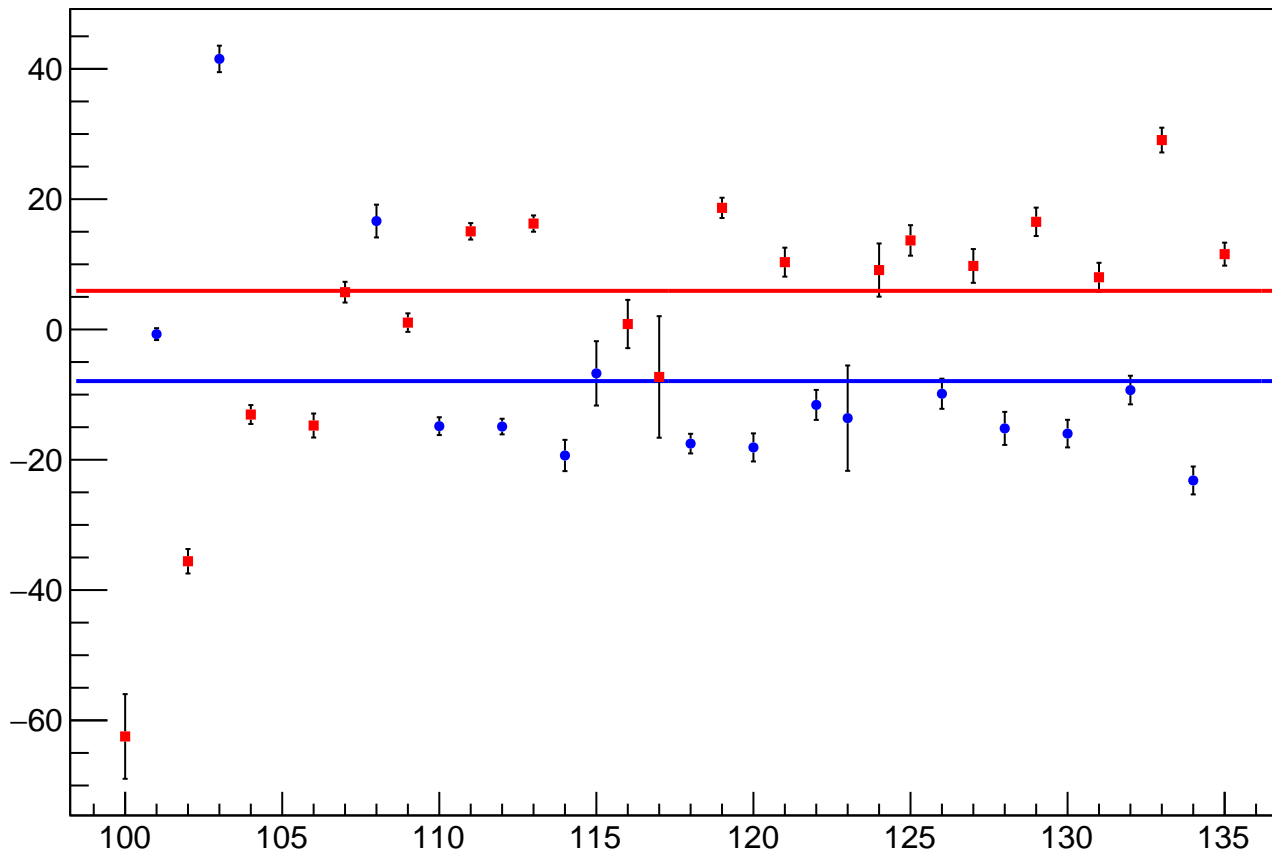
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-19.312 \pm 0.695$   $\chi^2/\text{NDF}: 2076.5/15$

$0.172 \pm 0.457$   $\chi^2/\text{NDF}: 5305.2/34$

$15.049 \pm 0.607$   $\chi^2/\text{NDF}: 1843.2/18$

# reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -7.924+/-0.452  $\chi^2$ /NDF: 973.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5.929+/-0.433  $\chi^2$ /NDF: 1300.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

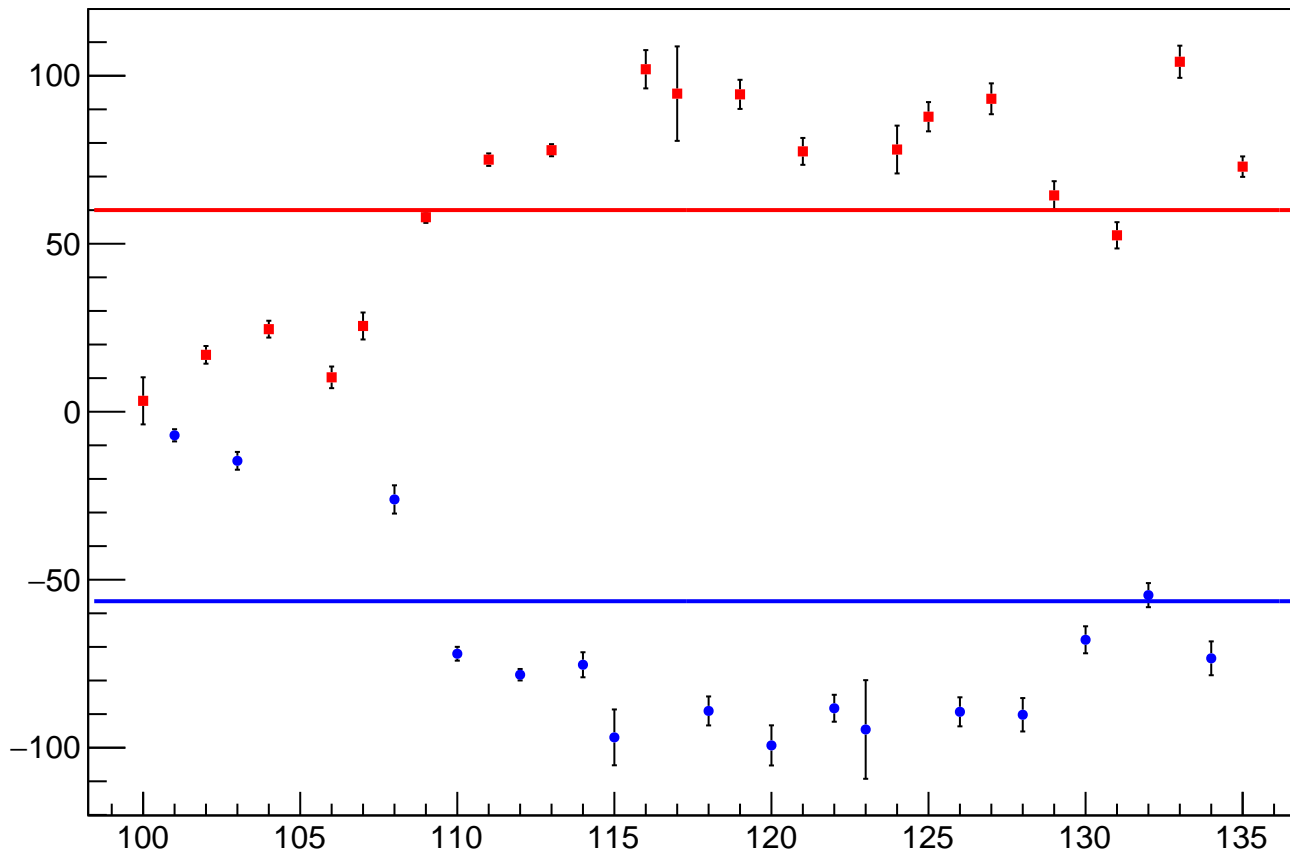
-7.924+/-0.452  $\chi^2$ /NDF: 973.0/15

-0.704+/-0.313  $\chi^2$ /NDF: 2763.3/34

5.929+/-0.433  $\chi^2$ /NDF: 1300.1/18



reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-56.396 \pm 0.793$   $\chi^2/\text{NDF}: 1614.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $60.020 \pm 0.711$   $\chi^2/\text{NDF}: 1361.3/18$

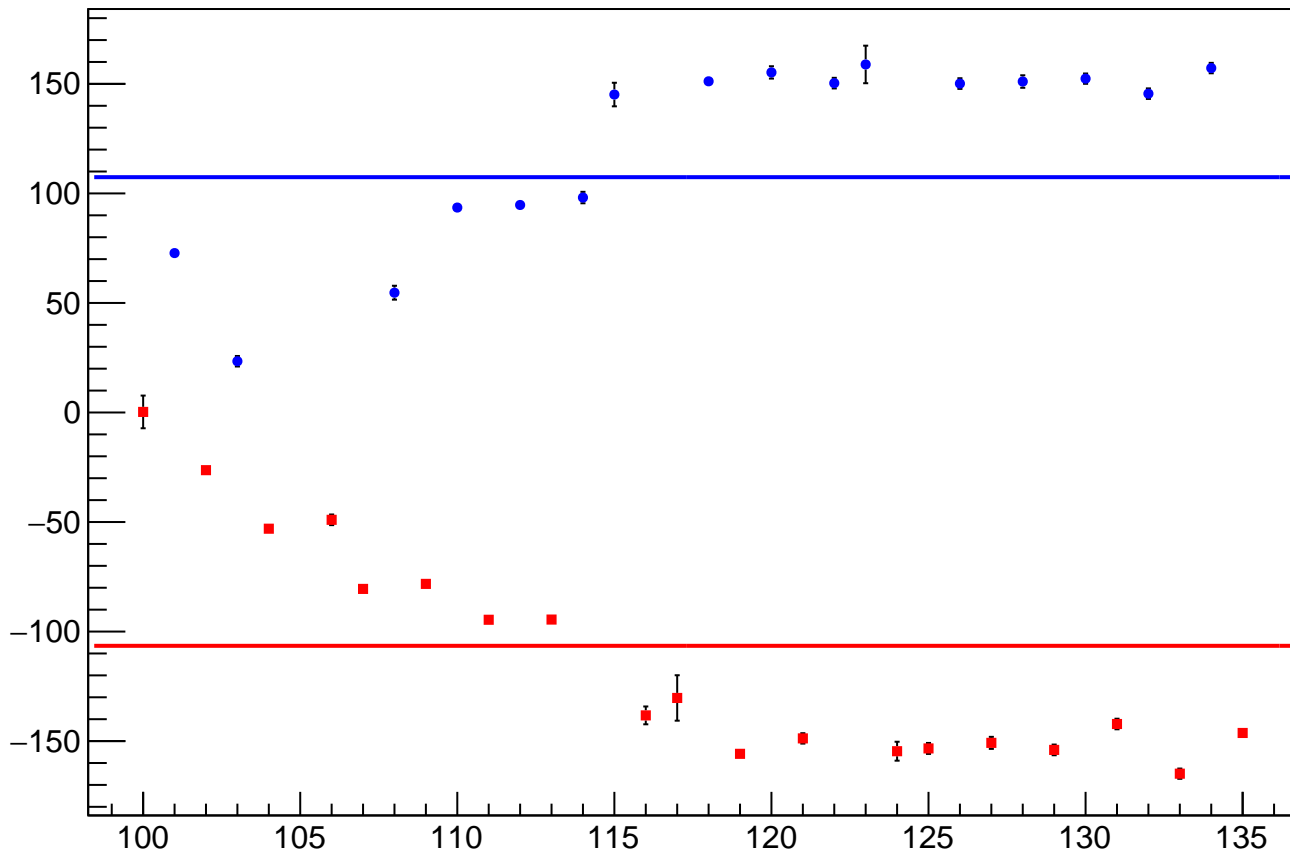
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-56.396 \pm 0.793$   $\chi^2/\text{NDF}: 1614.0/15$

$8.120 \pm 0.530$   $\chi^2/\text{NDF}: 14913.4/34$

$60.020 \pm 0.711$   $\chi^2/\text{NDF}: 1361.3/18$

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 107.415+/-0.521  $\chi^2$ /NDF: 5447.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -106.506+/-0.494  $\chi^2$ /NDF: 6951.4/18

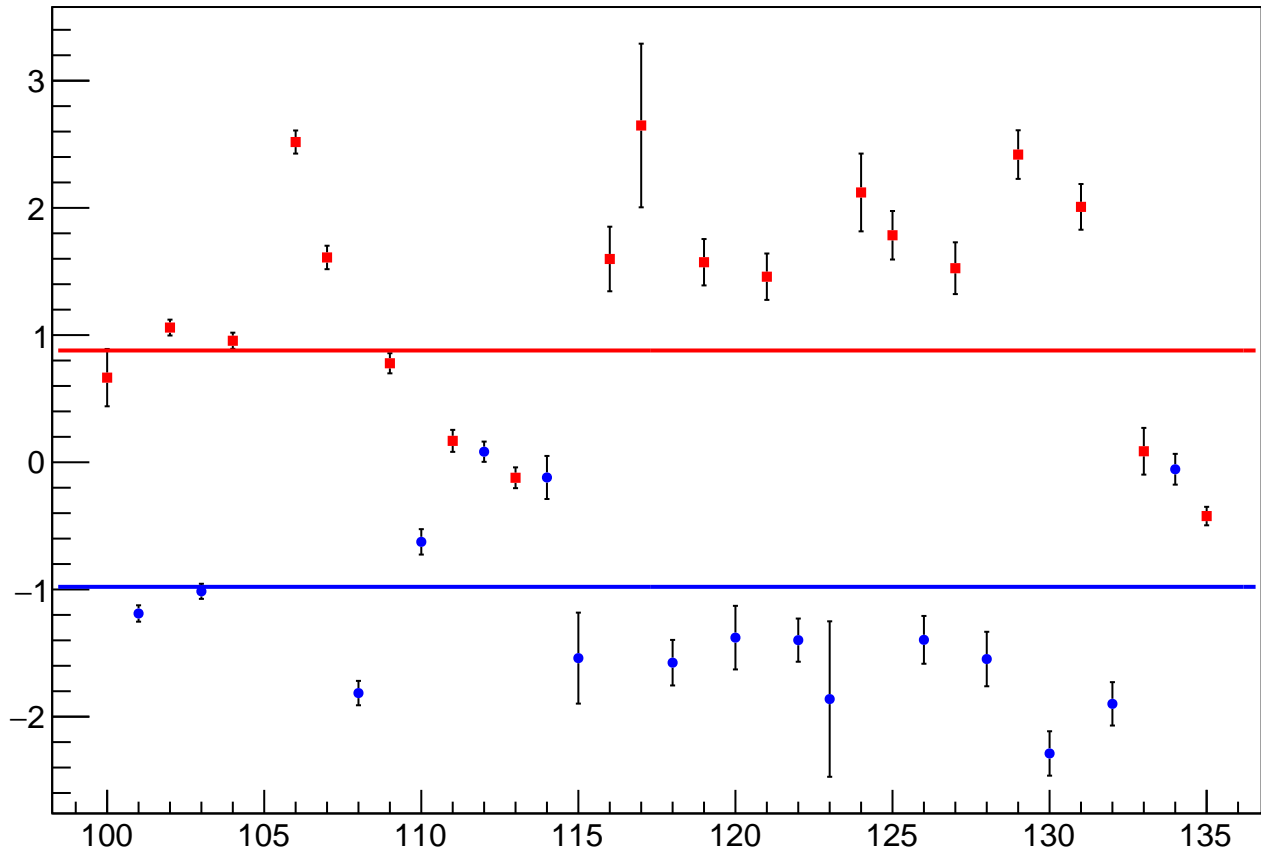
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

107.415+/-0.521  $\chi^2$ /NDF: 5447.4/15

-5.370+/-0.358  $\chi^2$ /NDF: 101204.7/34

-106.506+/-0.494  $\chi^2$ /NDF: 6951.4/18

# reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.979 \pm 0.029$   $\chi^2/\text{NDF}: 483.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.879 \pm 0.025$   $\chi^2/\text{NDF}: 1151.4/18$

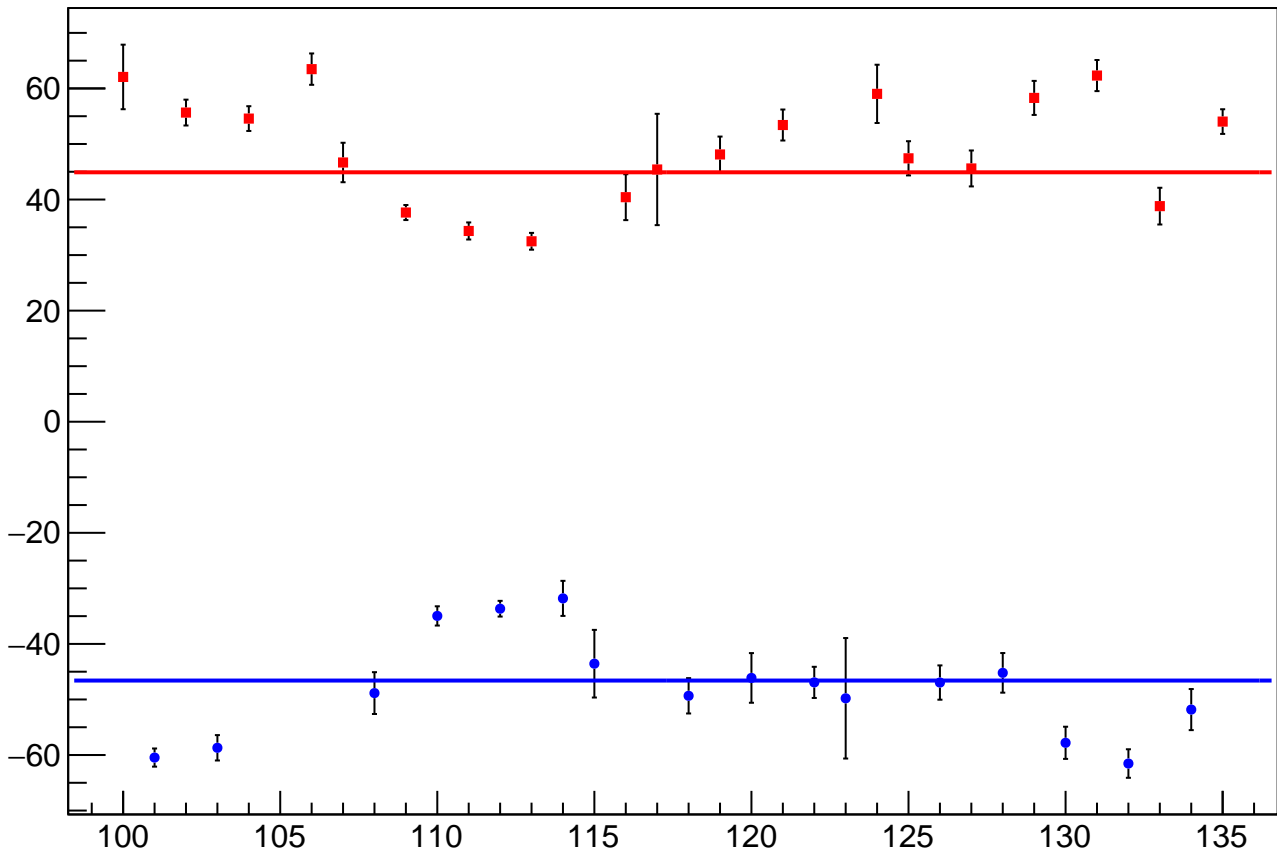
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.979 \pm 0.029$   $\chi^2/\text{NDF}: 483.4/15$

$0.088 \pm 0.019$   $\chi^2/\text{NDF}: 4022.8/34$

$0.879 \pm 0.025$   $\chi^2/\text{NDF}: 1151.4/18$

# reg\_asym\_sam\_48\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-46.595 \pm 0.644$   $\chi^2/\text{NDF}: 303.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $44.903 \pm 0.569$   $\chi^2/\text{NDF}: 333.2/18$

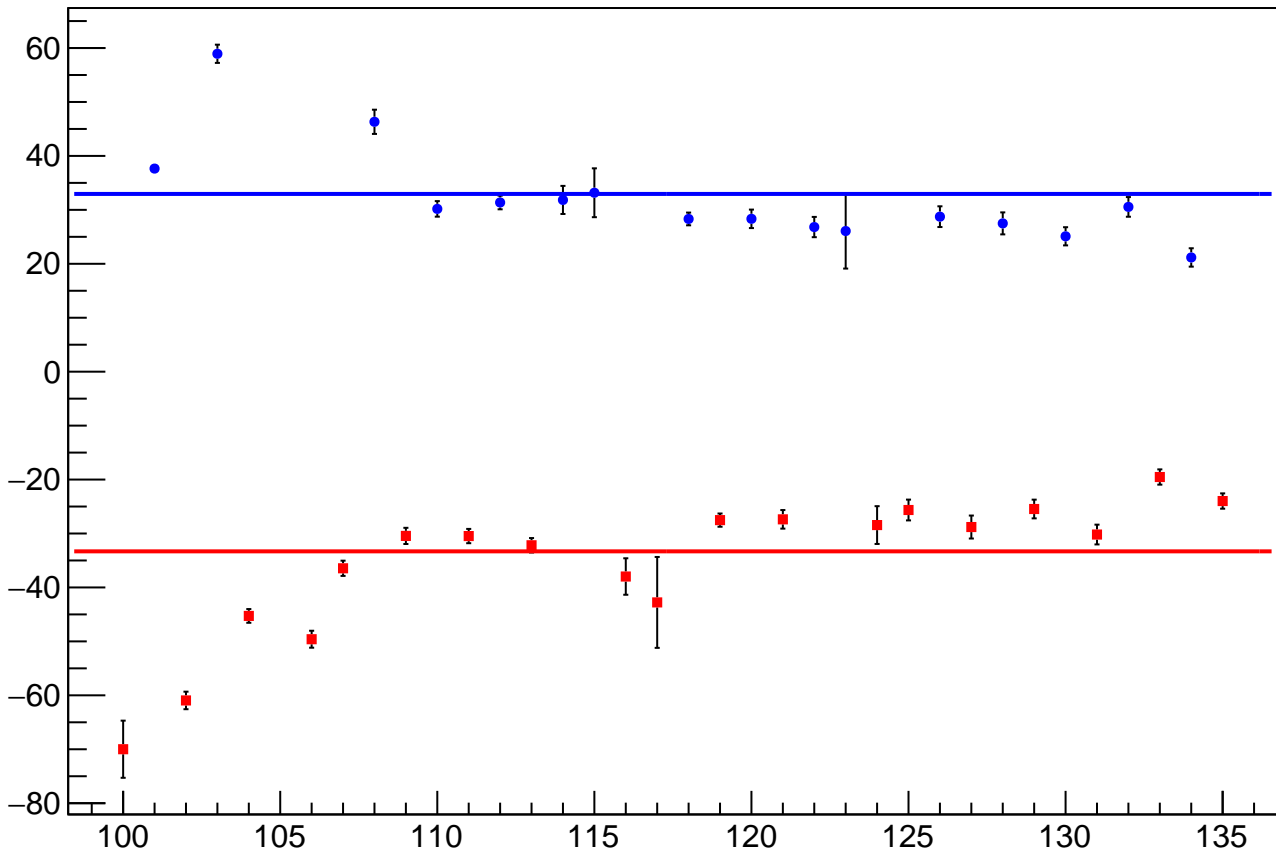
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-46.595 \pm 0.644$   $\chi^2/\text{NDF}: 303.1/15$

$4.788 \pm 0.427$   $\chi^2/\text{NDF}: 11960.3/34$

$44.903 \pm 0.569$   $\chi^2/\text{NDF}: 333.2/18$

# reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $32.951 \pm 0.398$   $\chi^2/\text{NDF}: 430.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-33.309 \pm 0.383$   $\chi^2/\text{NDF}: 768.0/18$

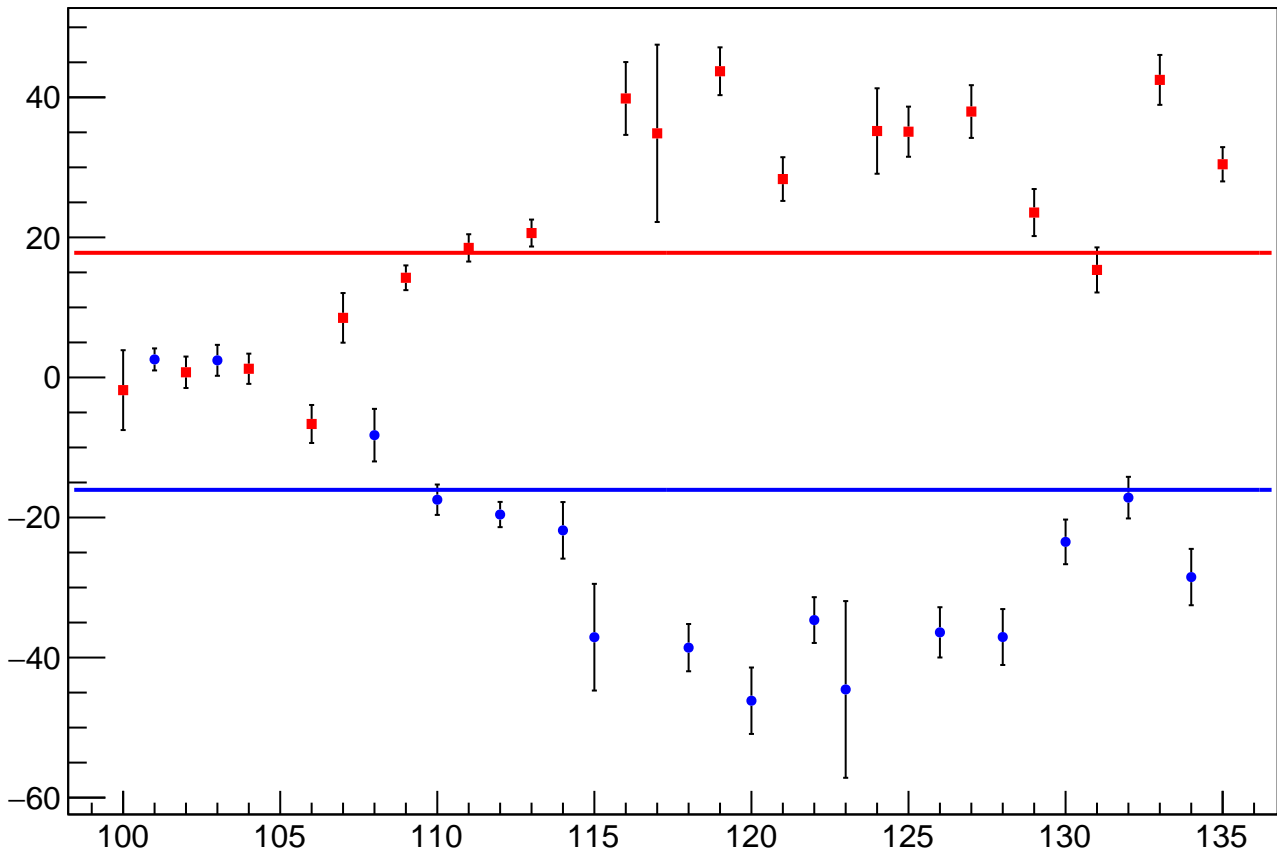
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$32.951 \pm 0.398$   $\chi^2/\text{NDF}: 430.0/15$

$-1.424 \pm 0.276$   $\chi^2/\text{NDF}: 15587.8/34$

$-33.309 \pm 0.383$   $\chi^2/\text{NDF}: 768.0/18$

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-16.050 \pm 0.721$   $\chi^2/\text{NDF}: 425.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $17.797 \pm 0.652$   $\chi^2/\text{NDF}: 450.0/18$

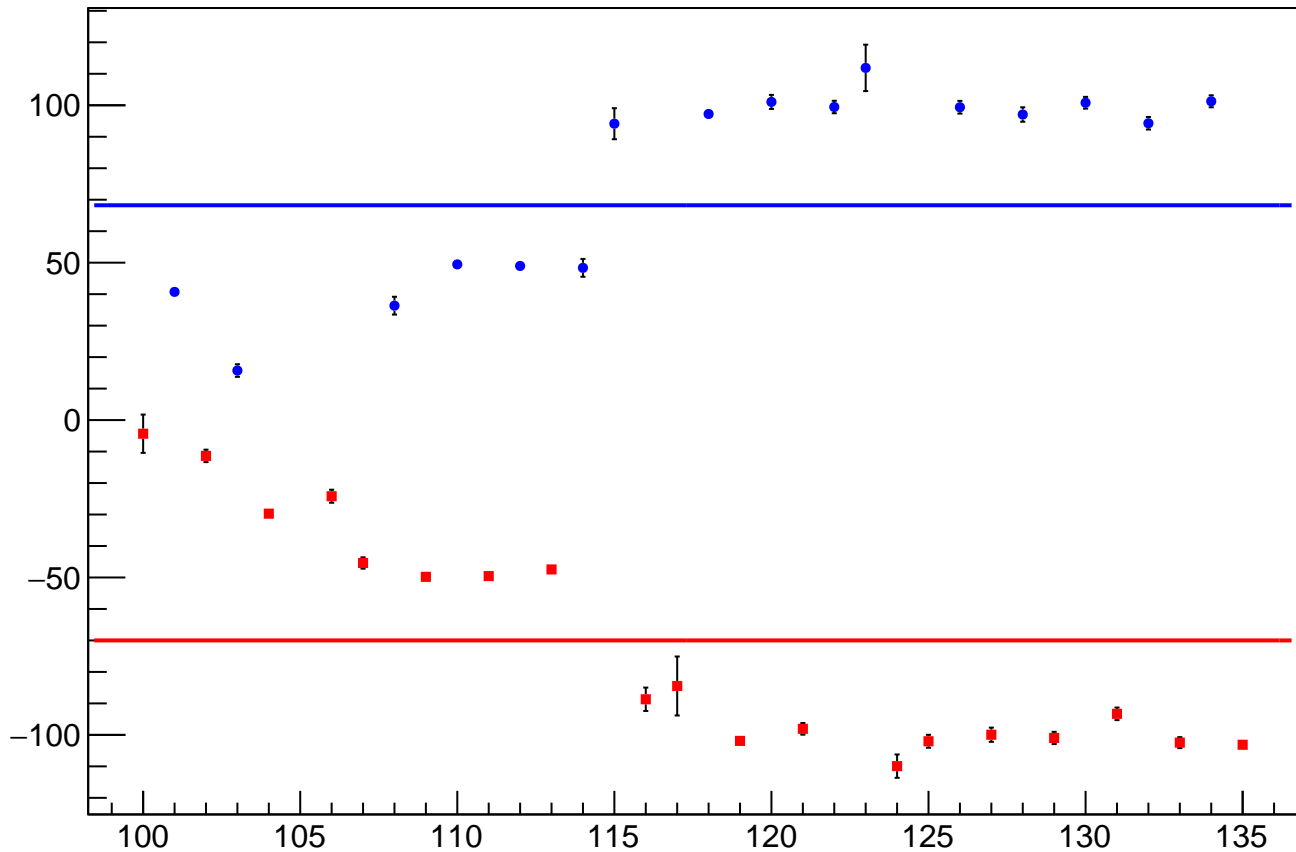
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-16.050 \pm 0.721$   $\chi^2/\text{NDF}: 425.7/15$

$2.563 \pm 0.484$   $\chi^2/\text{NDF}: 2088.0/34$

$17.797 \pm 0.652$   $\chi^2/\text{NDF}: 450.0/18$

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $68.232 \pm 0.462$   $\chi^2/\text{NDF}: 4068.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-69.994 \pm 0.440$   $\chi^2/\text{NDF}: 5372.0/18$

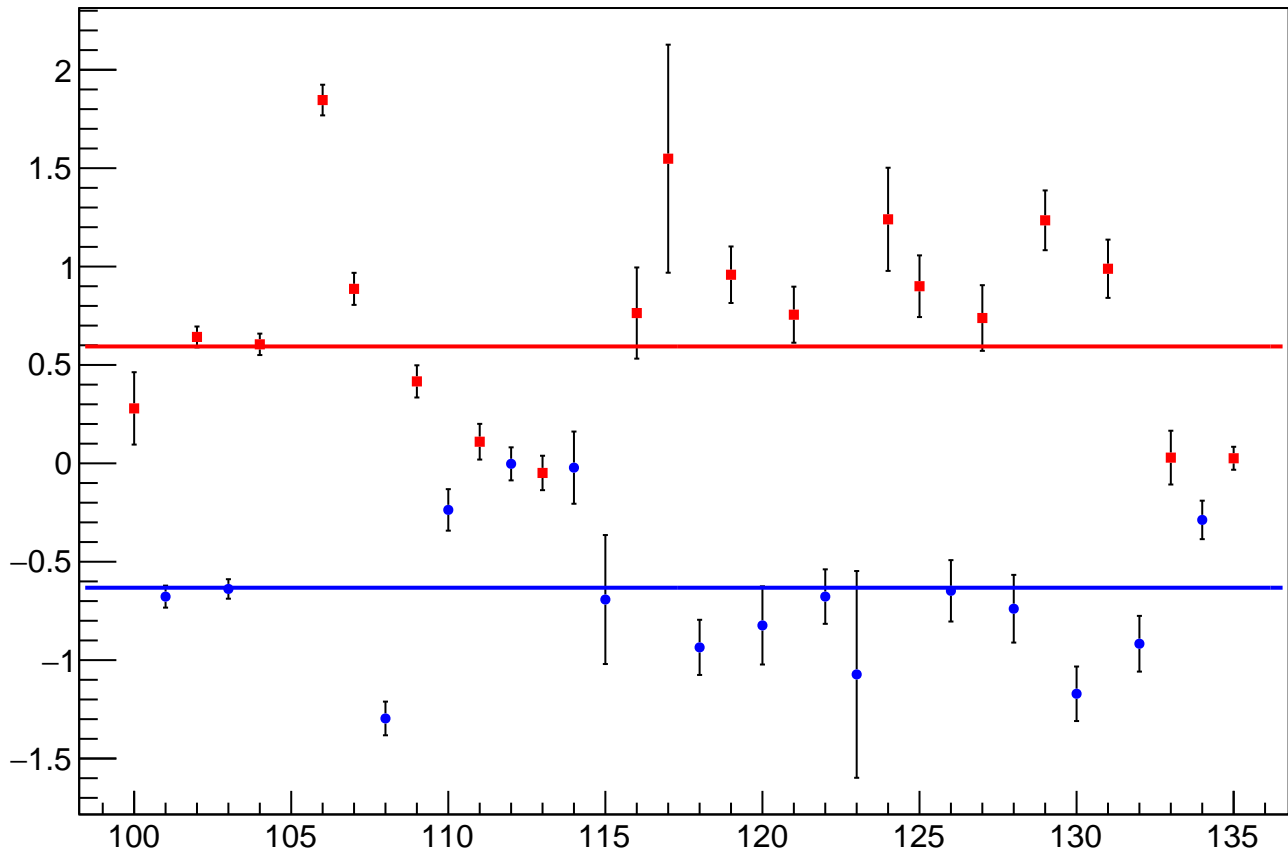
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$68.232 \pm 0.462$   $\chi^2/\text{NDF}: 4068.8/15$

$-4.327 \pm 0.319$   $\chi^2/\text{NDF}: 56403.4/34$

$-69.994 \pm 0.440$   $\chi^2/\text{NDF}: 5372.0/18$

# reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.632 \pm 0.025$   $\chi^2/\text{NDF}: 180.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.594 \pm 0.022$   $\chi^2/\text{NDF}: 520.6/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

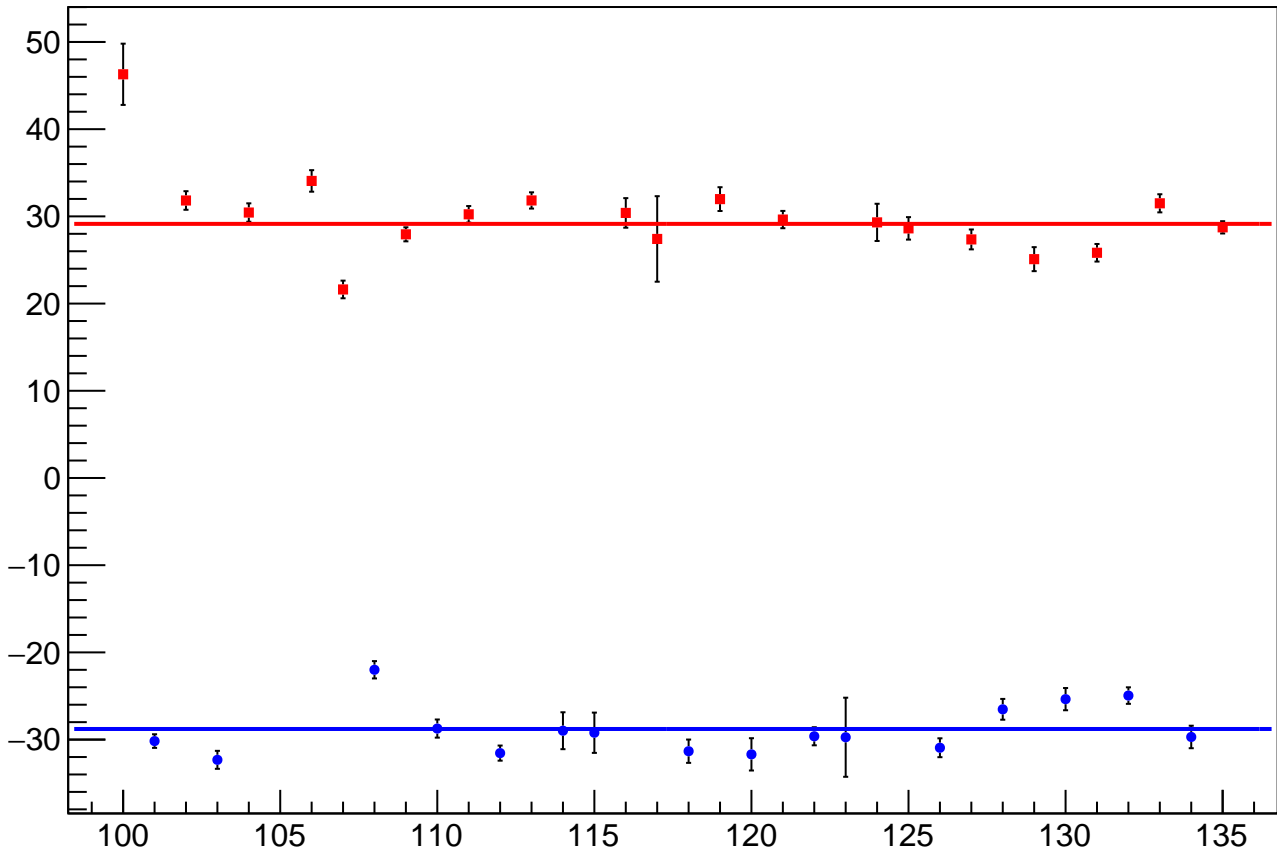
$-0.632 \pm 0.025$   $\chi^2/\text{NDF}: 180.7/15$

$0.072 \pm 0.017$   $\chi^2/\text{NDF}: 2037.4/34$

$0.594 \pm 0.022$   $\chi^2/\text{NDF}: 520.6/18$



reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-28.784 \pm 0.289$   $\chi^2/\text{NDF}: 110.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $29.140 \pm 0.256$   $\chi^2/\text{NDF}: 147.6/18$

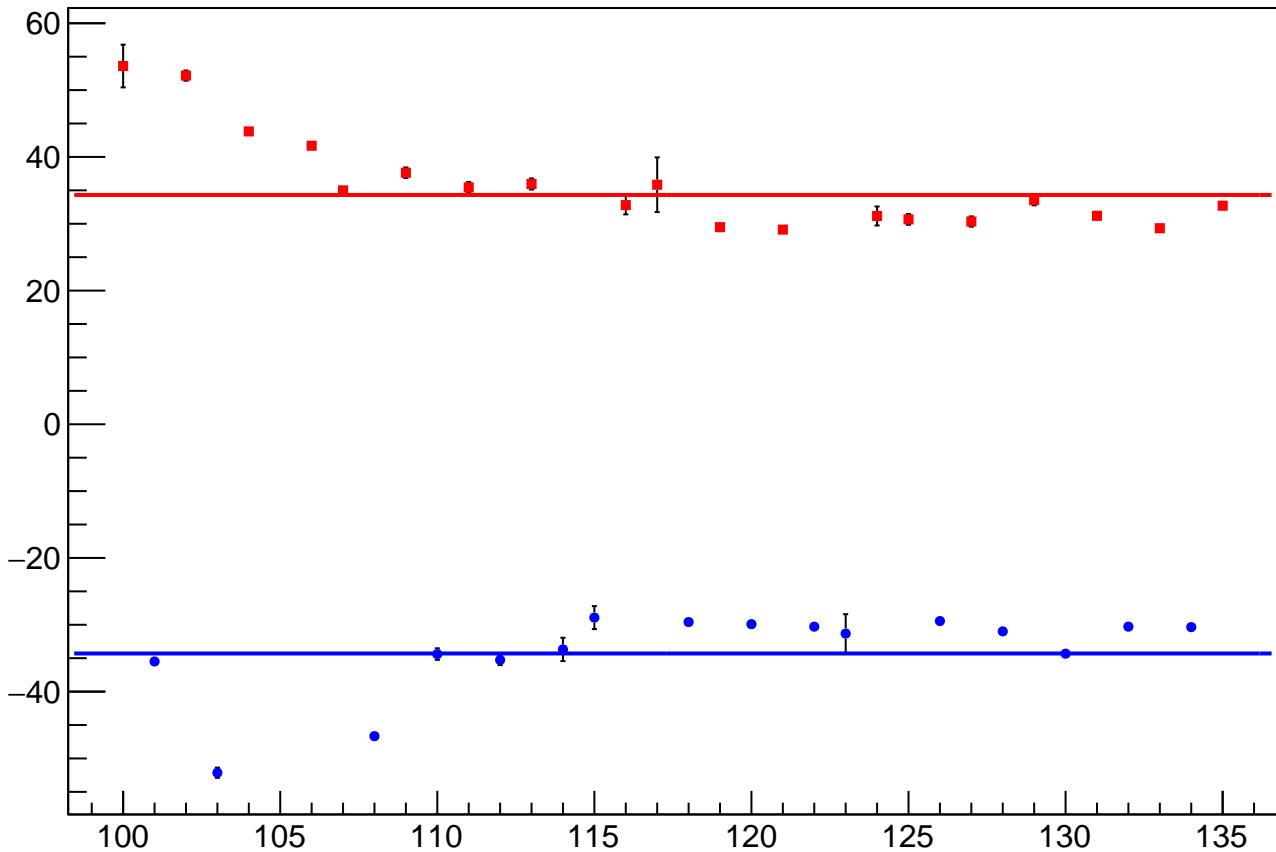
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-28.784 \pm 0.289$   $\chi^2/\text{NDF}: 110.2/15$

$3.711 \pm 0.191$   $\chi^2/\text{NDF}: 22796.7/34$

$29.140 \pm 0.256$   $\chi^2/\text{NDF}: 147.6/18$

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-34.294 \pm 0.170$   $\chi^2/\text{NDF}$ : 1317.5/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $34.310 \pm 0.155$   $\chi^2/\text{NDF}$ : 1353.2/18

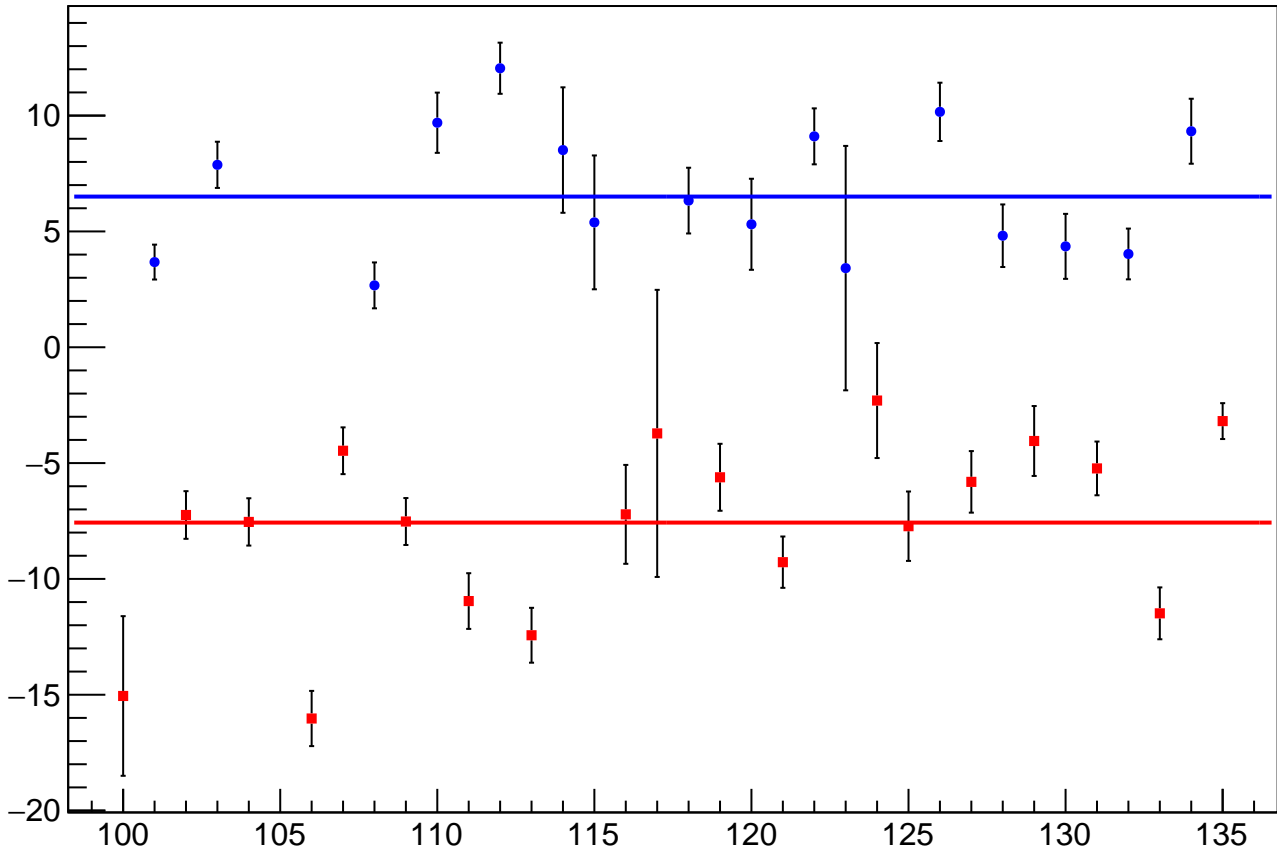
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-34.294 \pm 0.170$   $\chi^2/\text{NDF}$ : 1317.5/15

$3.324 \pm 0.115$   $\chi^2/\text{NDF}$ : 91479.5/34

$34.310 \pm 0.155$   $\chi^2/\text{NDF}$ : 1353.2/18

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 6.504+/-0.317  $\chi^2$ /NDF: 89.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7.569+/-0.284  $\chi^2$ /NDF: 154.1/18

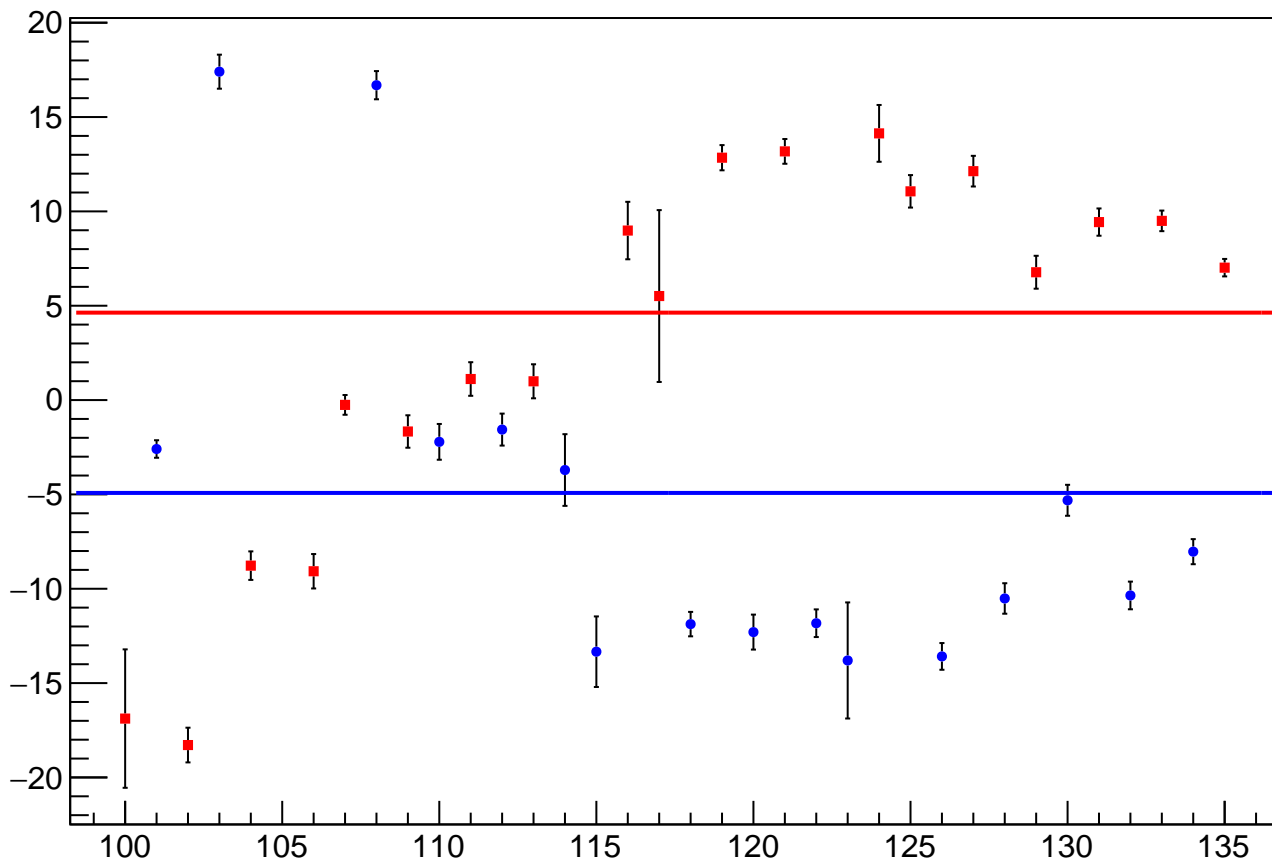
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

6.504+/-0.317  $\chi^2$ /NDF: 89.7/15

-1.303+/-0.211  $\chi^2$ /NDF: 1338.3/34

-7.569+/-0.284  $\chi^2$ /NDF: 154.1/18

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-4.921 \pm 0.199$   $\chi^2/\text{NDF}: 2068.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $4.634 \pm 0.179$   $\chi^2/\text{NDF}: 2034.2/18$

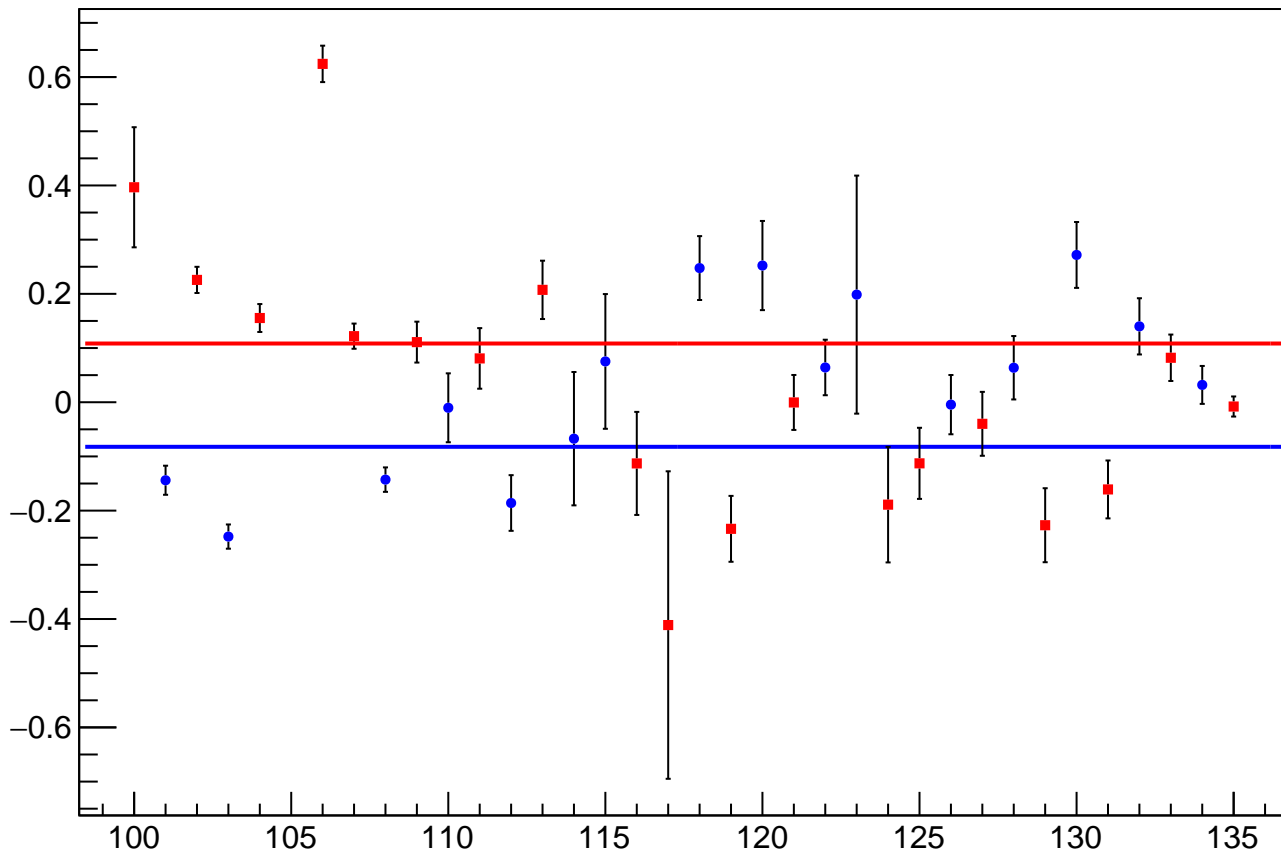
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-4.921 \pm 0.199$   $\chi^2/\text{NDF}: 2068.6/15$

$0.356 \pm 0.133$   $\chi^2/\text{NDF}: 5382.5/34$

$4.634 \pm 0.179$   $\chi^2/\text{NDF}: 2034.2/18$

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.082+/-0.011  $\chi^2$ /NDF: 203.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.108+/-0.009  $\chi^2$ /NDF: 433.1/18

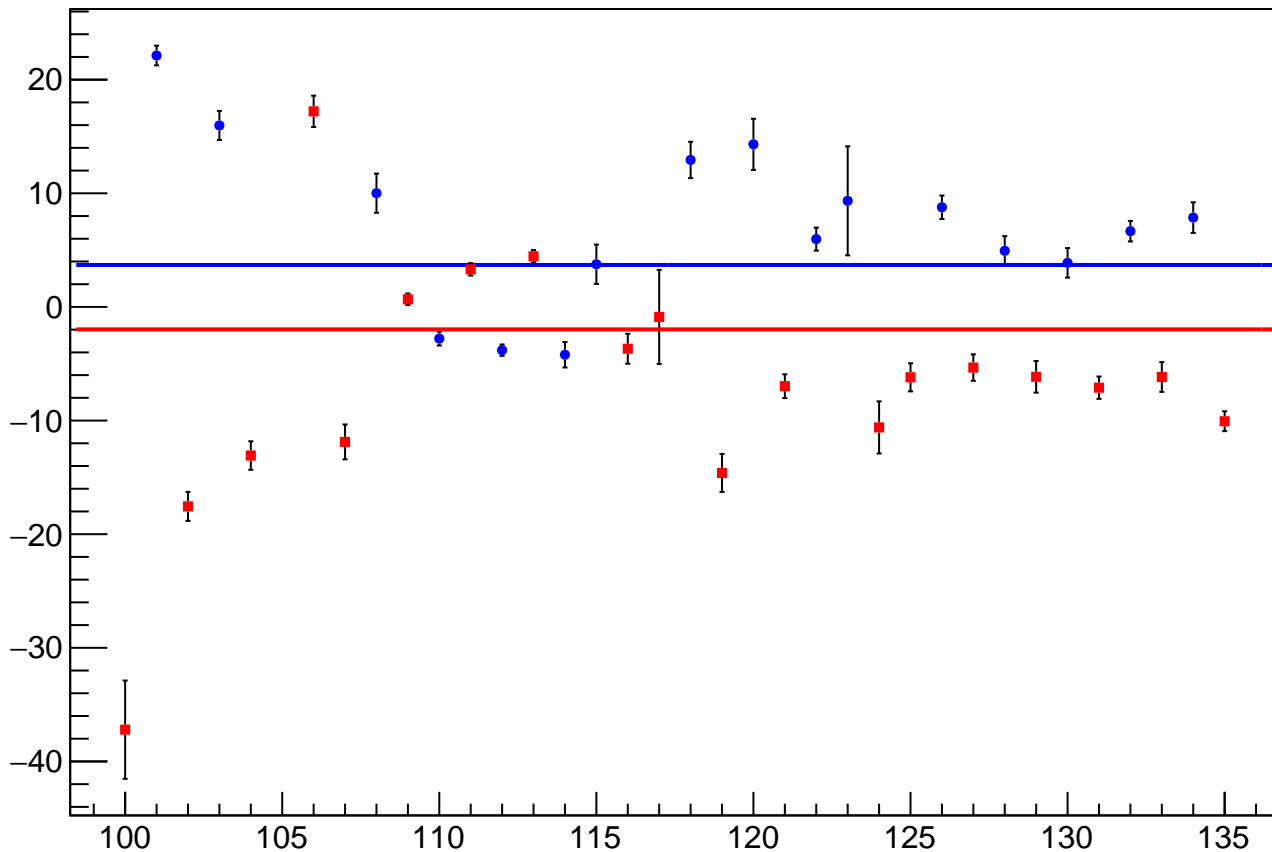
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.082+/-0.011  $\chi^2$ /NDF: 203.2/15

0.030+/-0.007  $\chi^2$ /NDF: 828.7/34

0.108+/-0.009  $\chi^2$ /NDF: 433.1/18

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 3.694+/-0.253  $\chi^2$ /NDF: 1053.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.975+/-0.225  $\chi^2$ /NDF: 1038.5/18

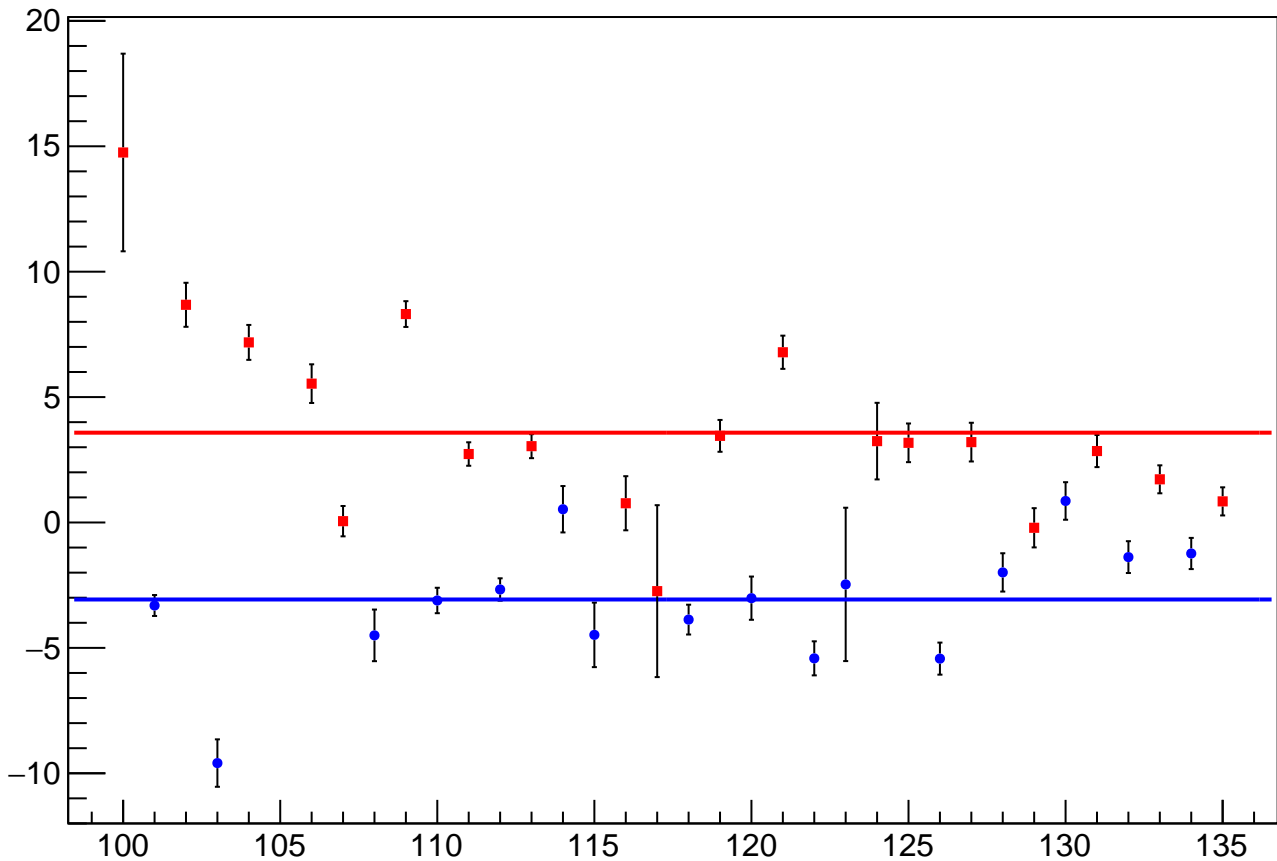
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

3.694+/-0.253  $\chi^2$ /NDF: 1053.0/15

0.523+/-0.168  $\chi^2$ /NDF: 2372.4/34

-1.975+/-0.225  $\chi^2$ /NDF: 1038.5/18

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.070 \pm 0.167$   $\chi^2/\text{NDF}: 139.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $3.581 \pm 0.157$   $\chi^2/\text{NDF}: 292.2/18$

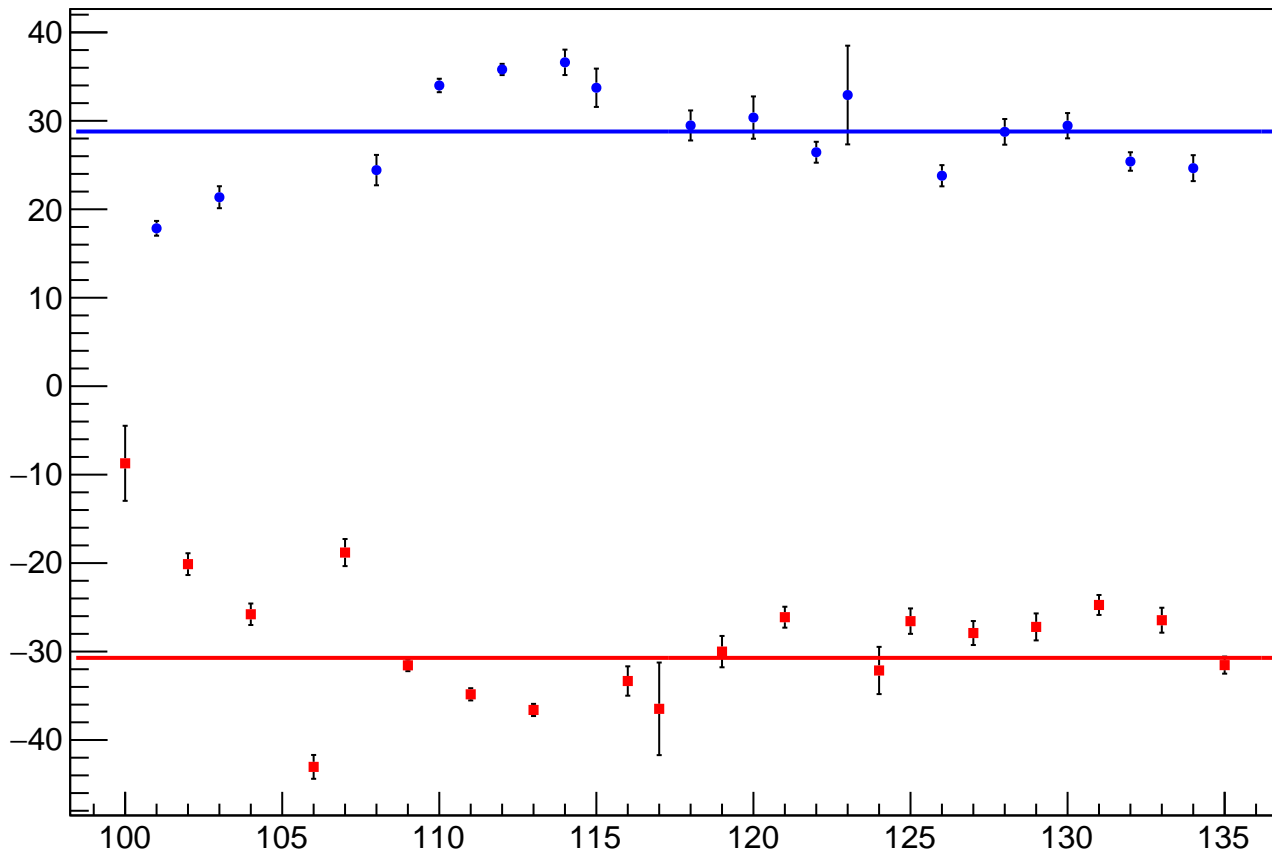
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-3.070 \pm 0.167$   $\chi^2/\text{NDF}: 139.7/15$

$0.453 \pm 0.114$   $\chi^2/\text{NDF}: 1274.8/34$

$3.581 \pm 0.157$   $\chi^2/\text{NDF}: 292.2/18$

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 28.793+/-0.293  $\chi^2$ /NDF: 458.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -30.715+/-0.265  $\chi^2$ /NDF: 446.9/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

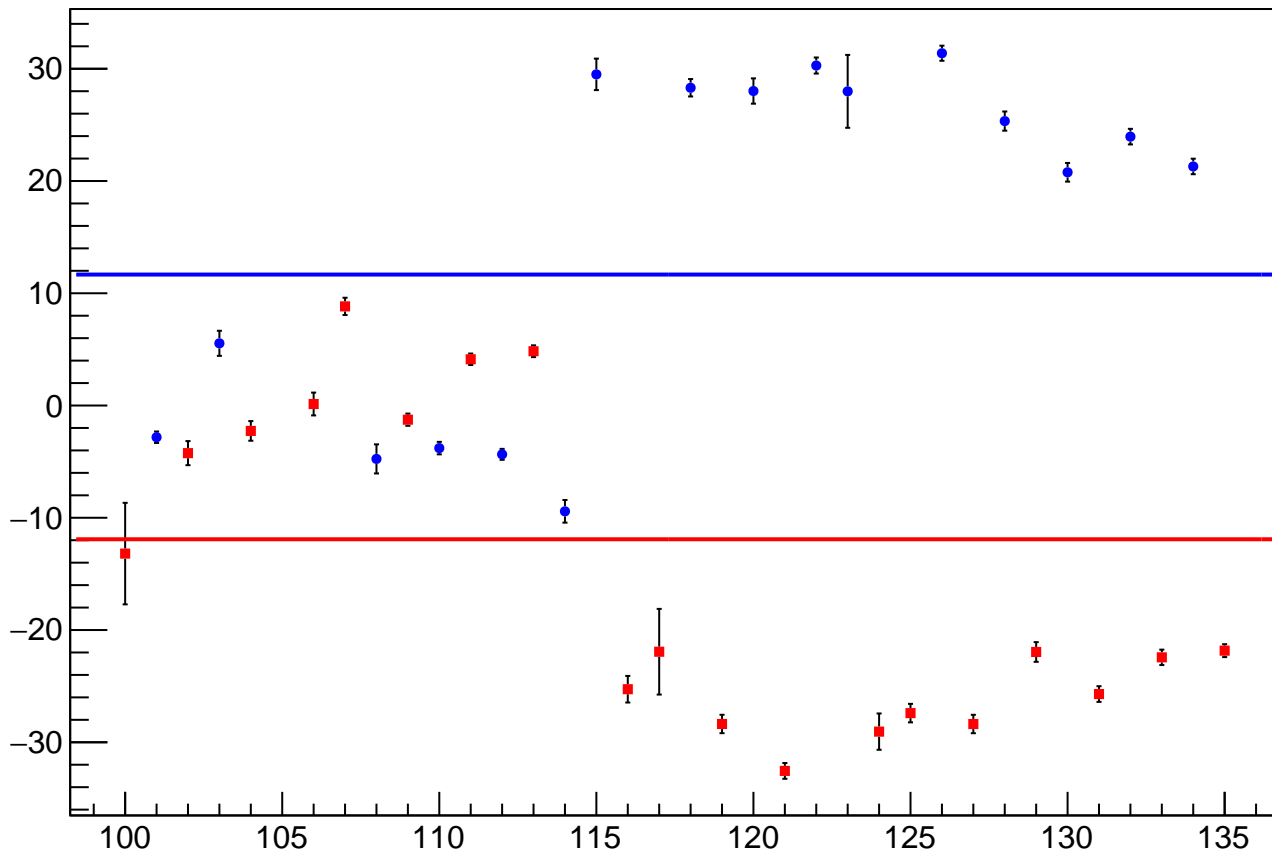
28.793+/-0.293  $\chi^2$ /NDF: 458.6/15

-3.987+/-0.197  $\chi^2$ /NDF: 23593.0/34

-30.715+/-0.265  $\chi^2$ /NDF: 446.9/18



reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.666 $\pm$ 0.189  $\chi^2$ /NDF: 6562.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -11.914 $\pm$ 0.177  $\chi^2$ /NDF: 6746.0/18

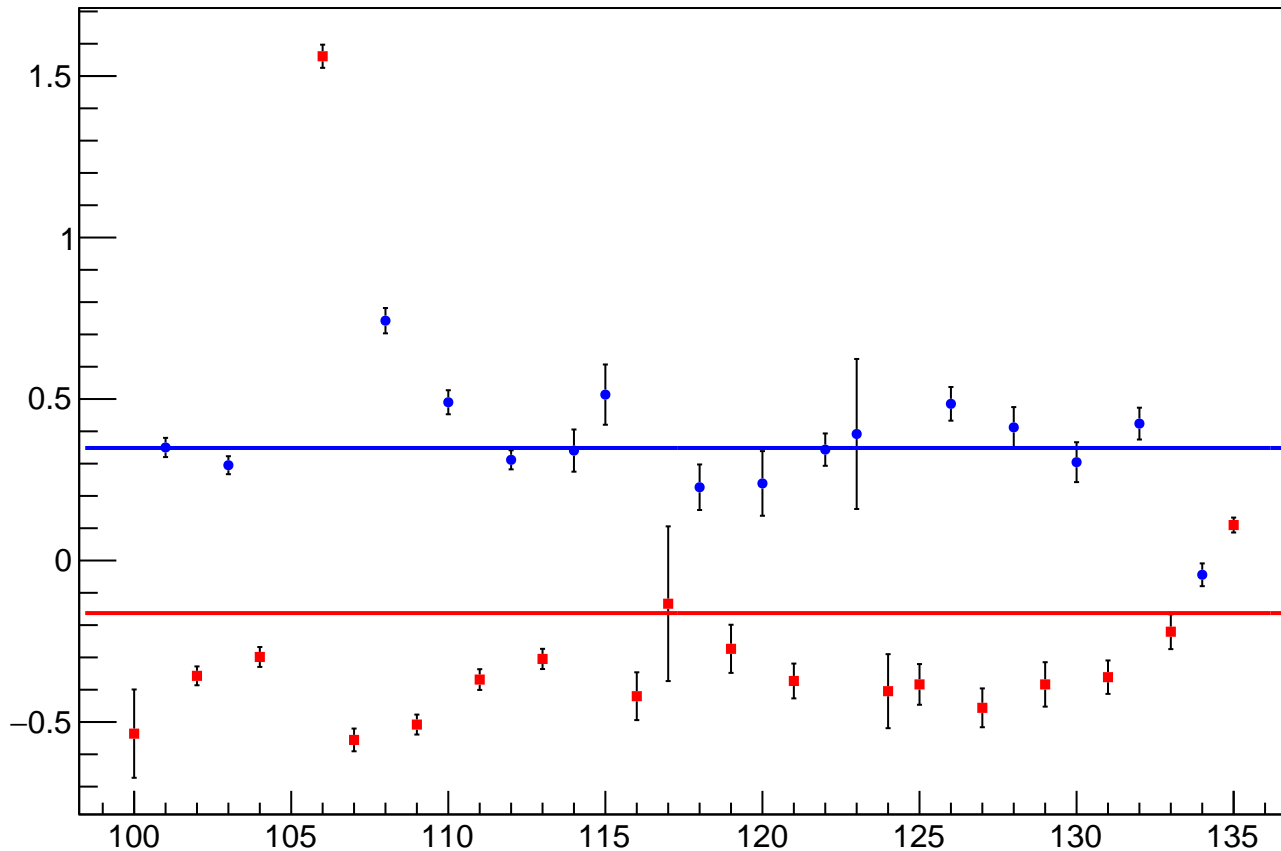
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

11.666 $\pm$ 0.189  $\chi^2$ /NDF: 6562.3/15

-0.912 $\pm$ 0.129  $\chi^2$ /NDF: 21568.5/34

-11.914 $\pm$ 0.177  $\chi^2$ /NDF: 6746.0/18

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.348 \pm 0.011$   $\chi^2/\text{NDF}: 263.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.163 \pm 0.010$   $\chi^2/\text{NDF}: 2924.7/18$

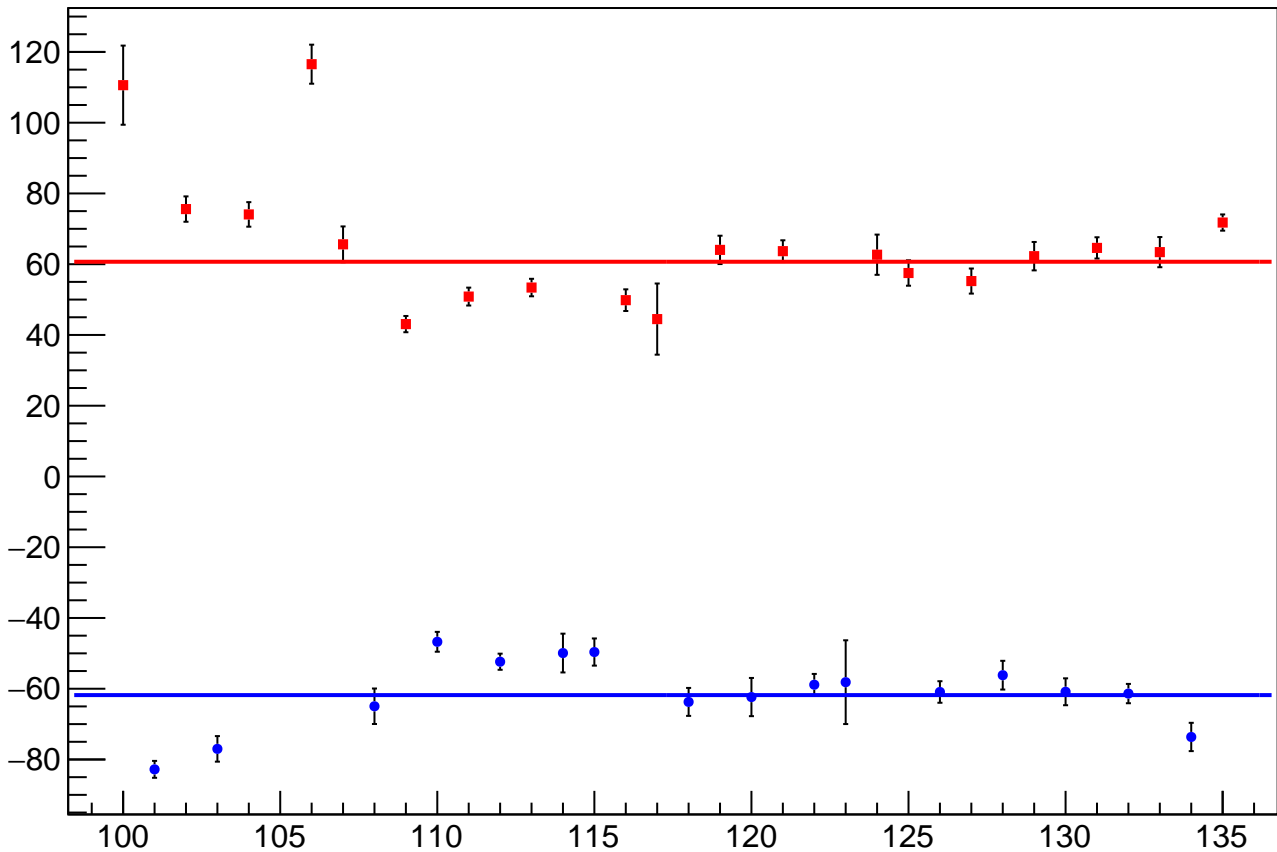
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$0.348 \pm 0.011$   $\chi^2/\text{NDF}: 263.1/15$

$0.054 \pm 0.007$   $\chi^2/\text{NDF}: 4409.0/34$

$-0.163 \pm 0.010$   $\chi^2/\text{NDF}: 2924.7/18$

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-61.800 \pm 0.858$   $\chi^2/\text{NDF}: 168.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $60.693 \pm 0.781$   $\chi^2/\text{NDF}: 283.7/18$

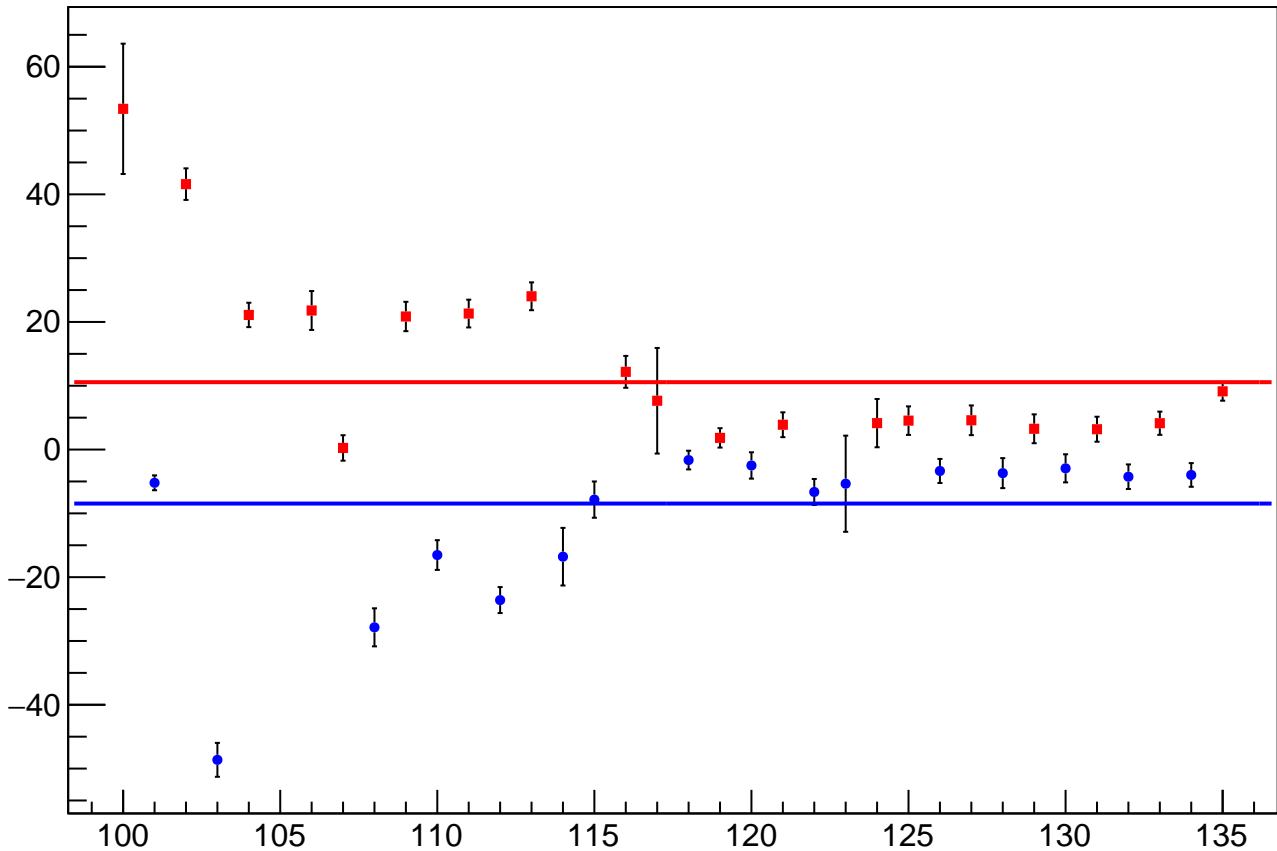
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-61.800 \pm 0.858$   $\chi^2/\text{NDF}: 168.1/15$

$5.197 \pm 0.577$   $\chi^2/\text{NDF}: 11603.4/34$

$60.693 \pm 0.781$   $\chi^2/\text{NDF}: 283.7/18$

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-8.464 \pm 0.515$   $\chi^2/\text{NDF}$ : 408.6/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $10.562 \pm 0.502$   $\chi^2/\text{NDF}$ : 428.2/18

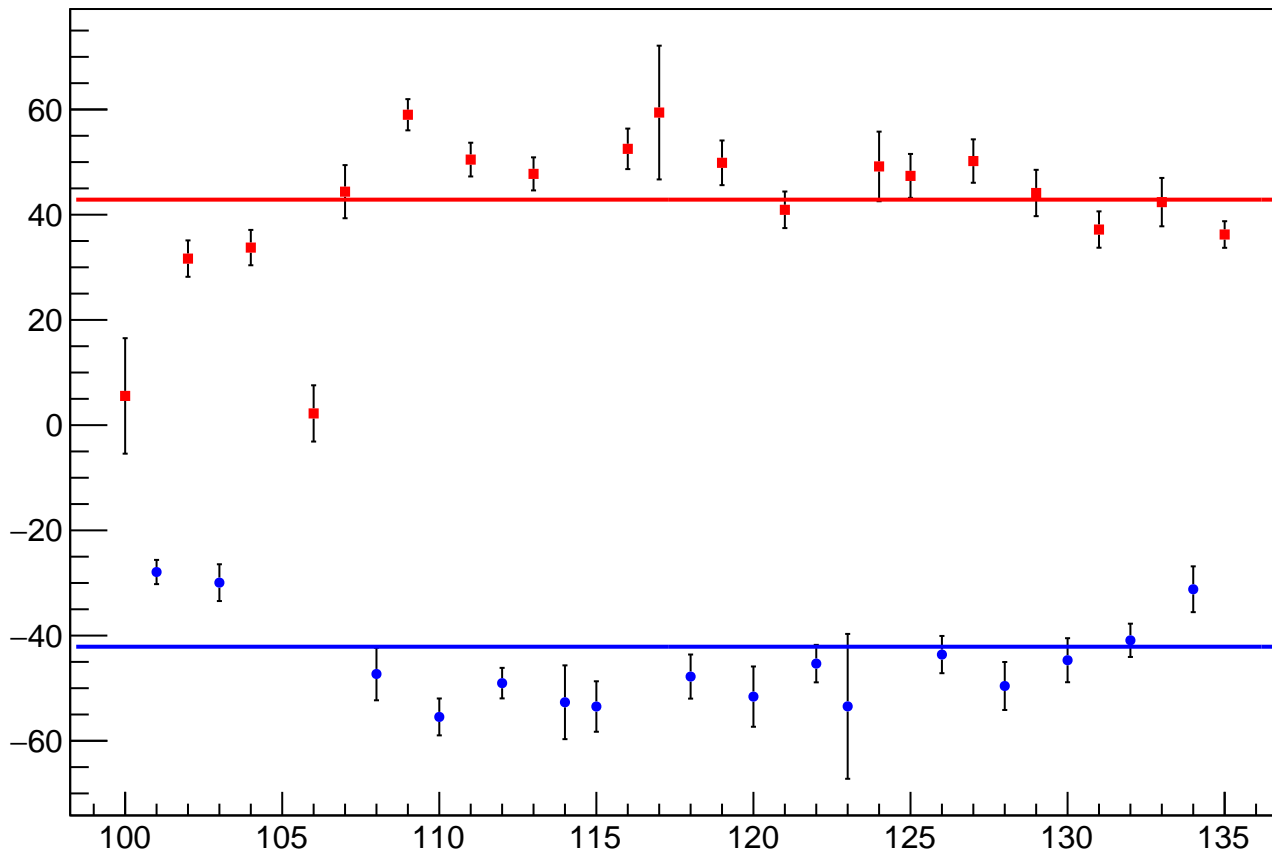
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-8.464 \pm 0.515$   $\chi^2/\text{NDF}$ : 408.6/15

$1.278 \pm 0.360$   $\chi^2/\text{NDF}$ : 1536.5/34

$10.562 \pm 0.502$   $\chi^2/\text{NDF}$ : 428.2/18

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-42.115 \pm 0.961$   $\chi^2/\text{NDF}: 95.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $42.862 \pm 0.892$   $\chi^2/\text{NDF}: 150.8/18$

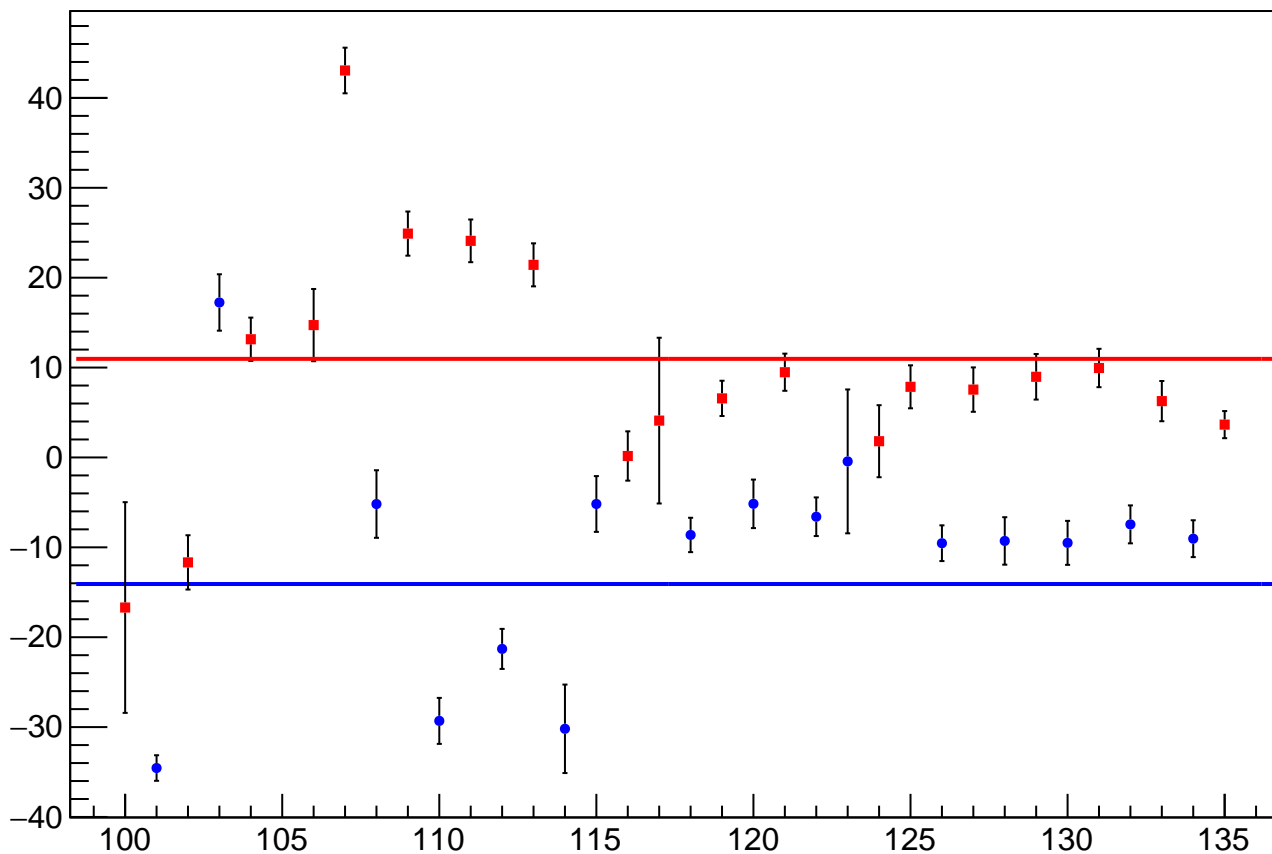
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-42.115 \pm 0.961$   $\chi^2/\text{NDF}: 95.1/15$

$3.514 \pm 0.654$   $\chi^2/\text{NDF}: 4448.0/34$

$42.862 \pm 0.892$   $\chi^2/\text{NDF}: 150.8/18$

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-14.081 \pm 0.594$   $\chi^2/\text{NDF}: 439.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $10.969 \pm 0.570$   $\chi^2/\text{NDF}: 364.2/18$

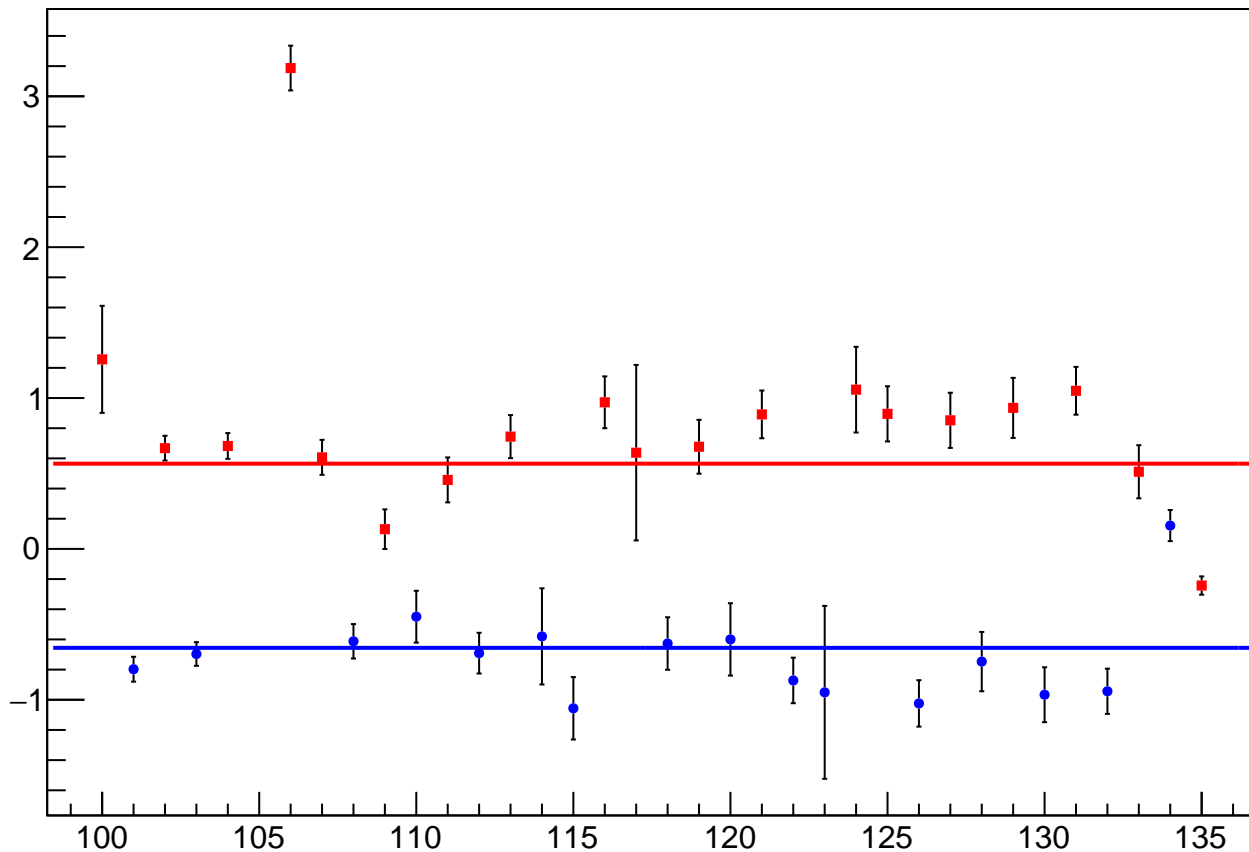
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-14.081 \pm 0.594$   $\chi^2/\text{NDF}: 439.5/15$

$-1.042 \pm 0.411$   $\chi^2/\text{NDF}: 1729.8/34$

$10.969 \pm 0.570$   $\chi^2/\text{NDF}: 364.2/18$

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.656 \pm 0.034$   $\chi^2/\text{NDF}: 85.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.565 \pm 0.030$   $\chi^2/\text{NDF}: 542.3/18$

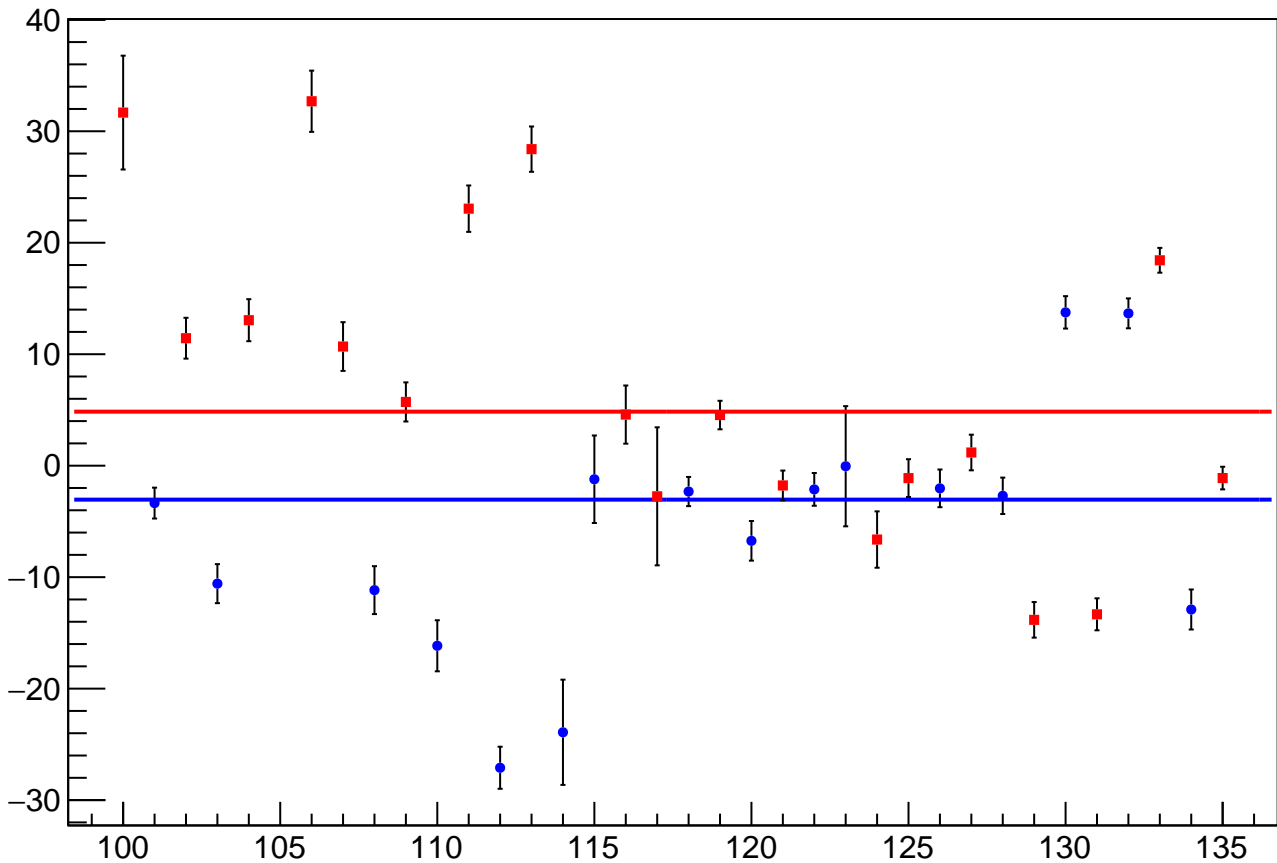
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.656 \pm 0.034$   $\chi^2/\text{NDF}: 85.5/15$

$0.040 \pm 0.023$   $\chi^2/\text{NDF}: 1343.3/34$

$0.565 \pm 0.030$   $\chi^2/\text{NDF}: 542.3/18$

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: -3.045+/-0.442  $\chi^2$ /NDF: 572.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4.847+/-0.388  $\chi^2$ /NDF: 926.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

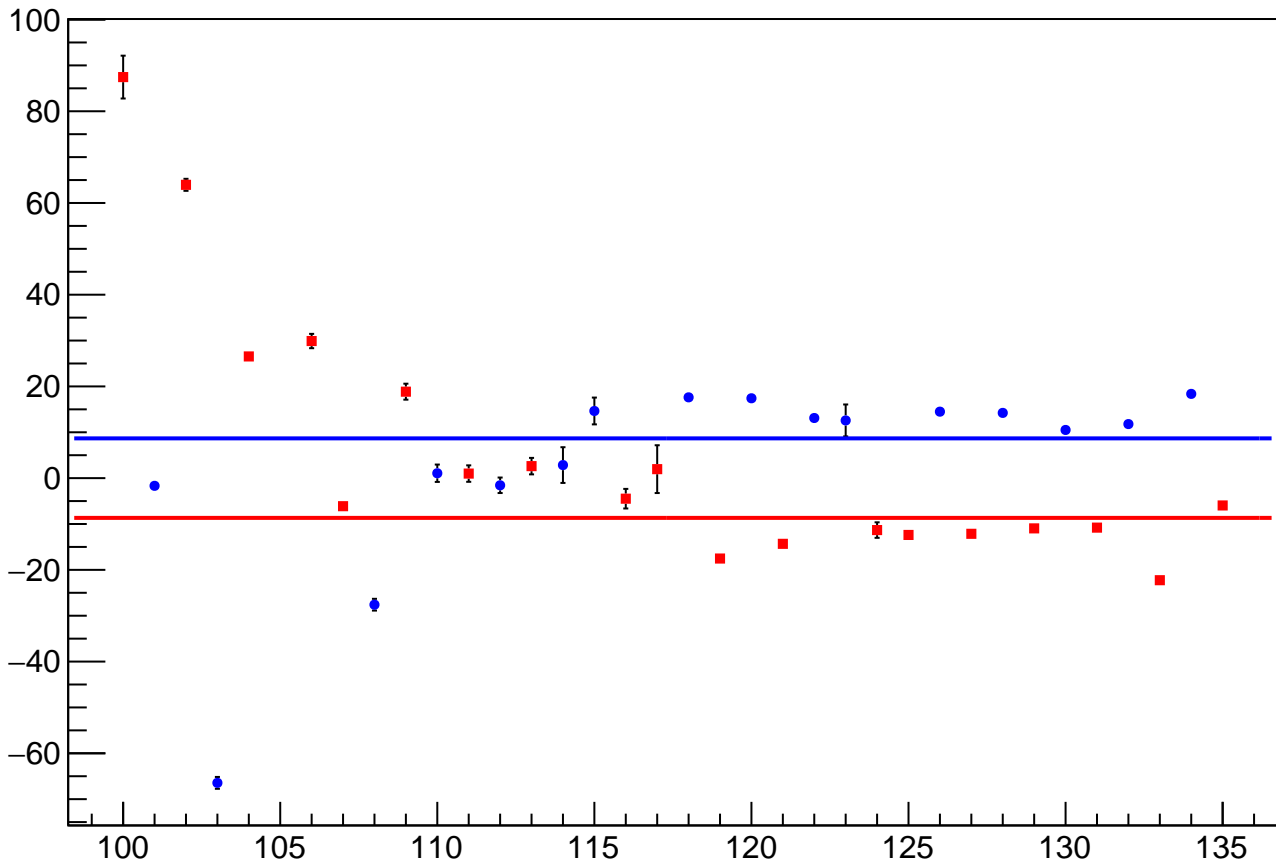
-3.045+/-0.442  $\chi^2$ /NDF: 572.6/15

1.420+/-0.292  $\chi^2$ /NDF: 1678.8/34

4.847+/-0.388  $\chi^2$ /NDF: 926.1/18



reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 8.671+/-0.239  $\chi^2$ /NDF: 5207.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -8.666+/-0.217  $\chi^2$ /NDF: 6705.2/18

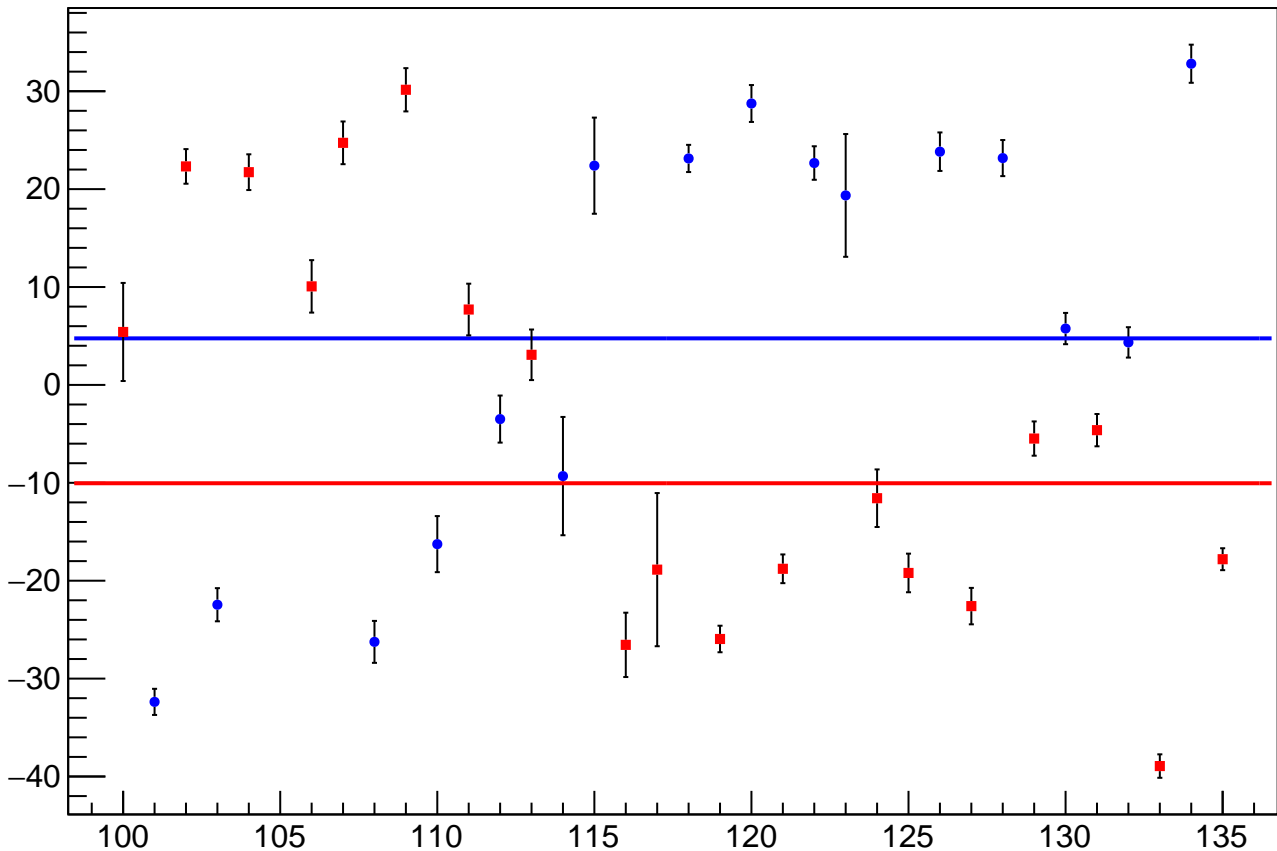
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

8.671+/-0.239  $\chi^2$ /NDF: 5207.0/15

-0.825+/-0.160  $\chi^2$ /NDF: 14806.3/34

-8.666+/-0.217  $\chi^2$ /NDF: 6705.2/18

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 4.755+/-0.483  $\chi^2/\text{NDF}$ : 2179.2/15

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

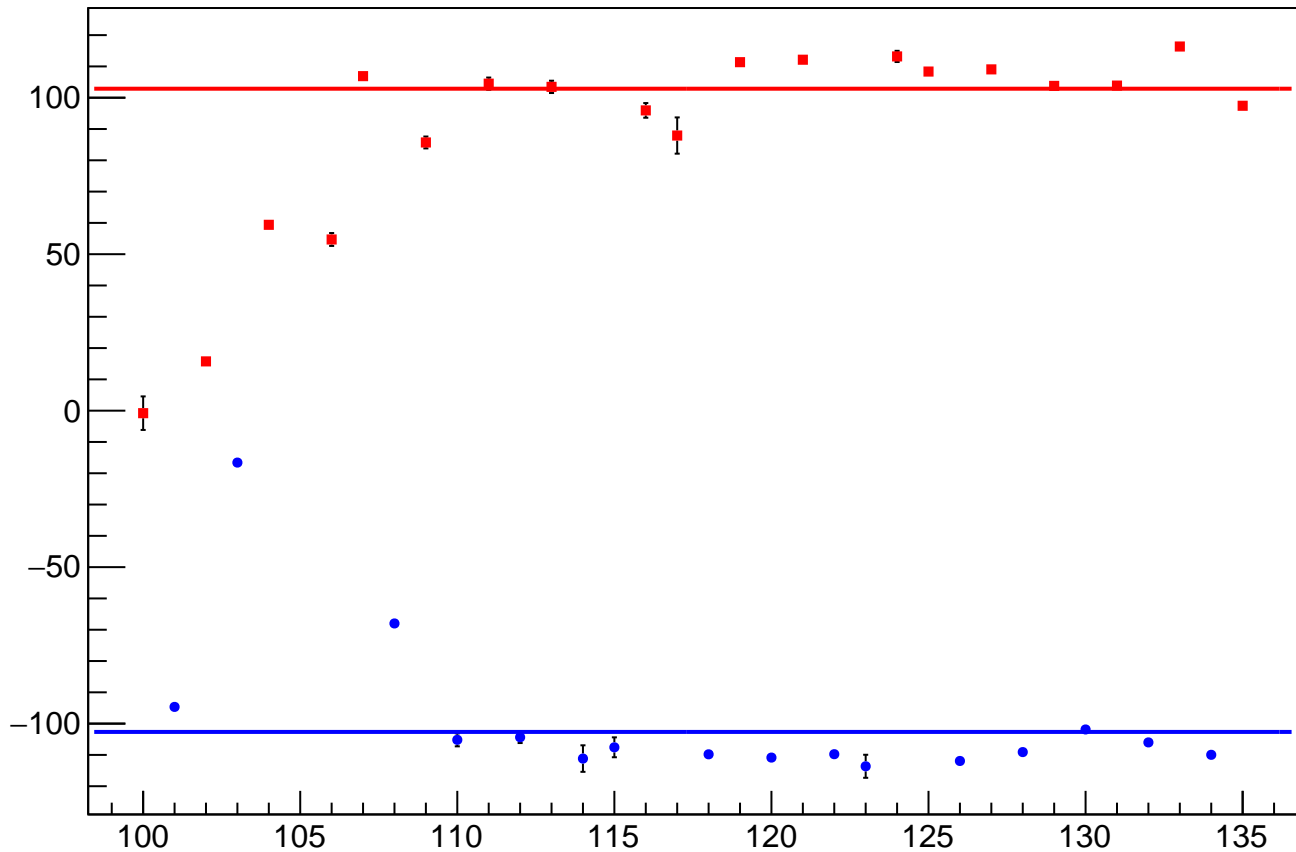
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.755+/-0.483  $\chi^2/\text{NDF}$ : 2179.2/15

-3.549+/-0.320  $\chi^2/\text{NDF}$ : 4978.7/34

-10.044+/-0.427  $\chi^2/\text{NDF}$ : 2273.3/18

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-102.654 \pm 0.283$   $\chi^2/\text{NDF}: 4180.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $102.878 \pm 0.252$   $\chi^2/\text{NDF}: 6019.9/18$

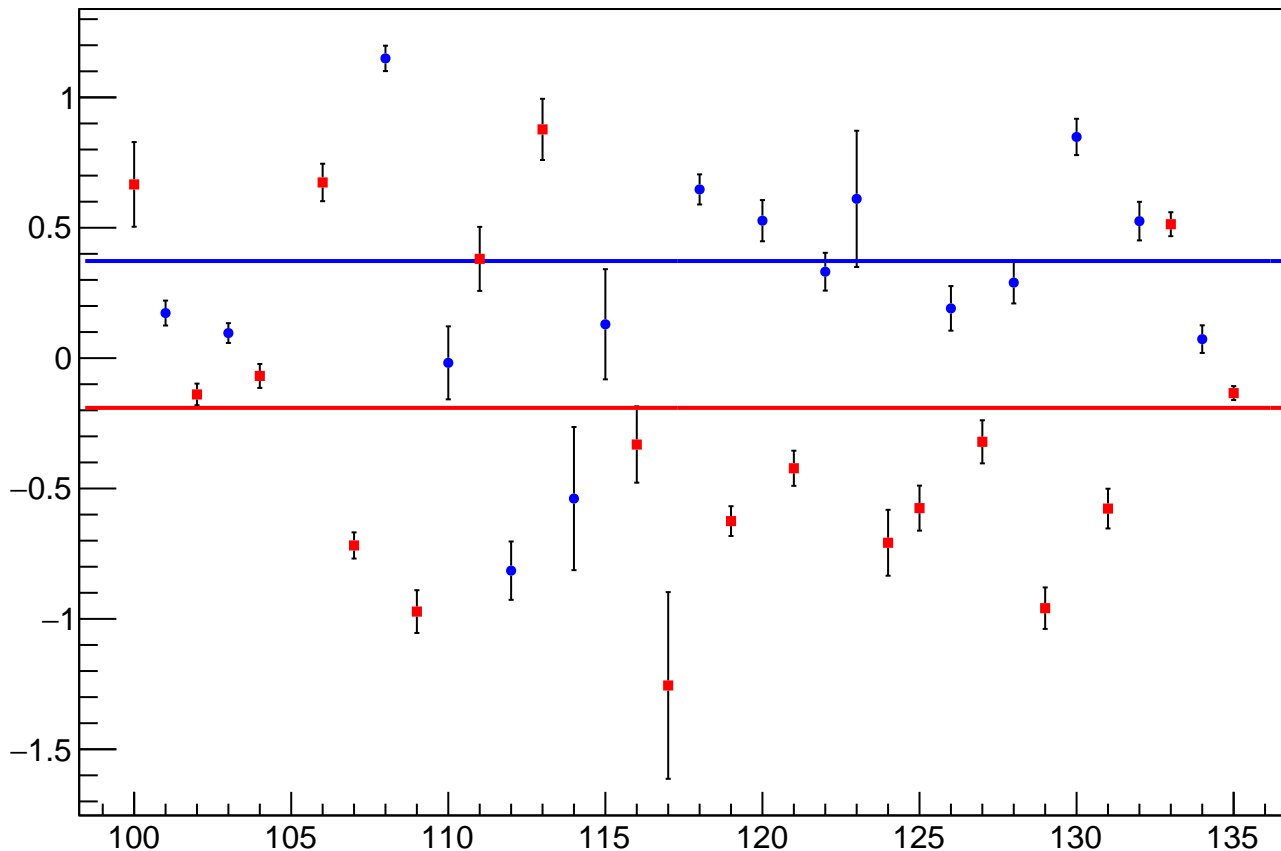
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-102.654 \pm 0.283$   $\chi^2/\text{NDF}: 4180.6/15$

$12.130 \pm 0.188$   $\chi^2/\text{NDF}: 304826.5/34$

$102.878 \pm 0.252$   $\chi^2/\text{NDF}: 6019.9/18$

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.017  $\chi^2$ /NDF: 573.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.191 $\pm$ 0.014  $\chi^2$ /NDF: 963.9/18

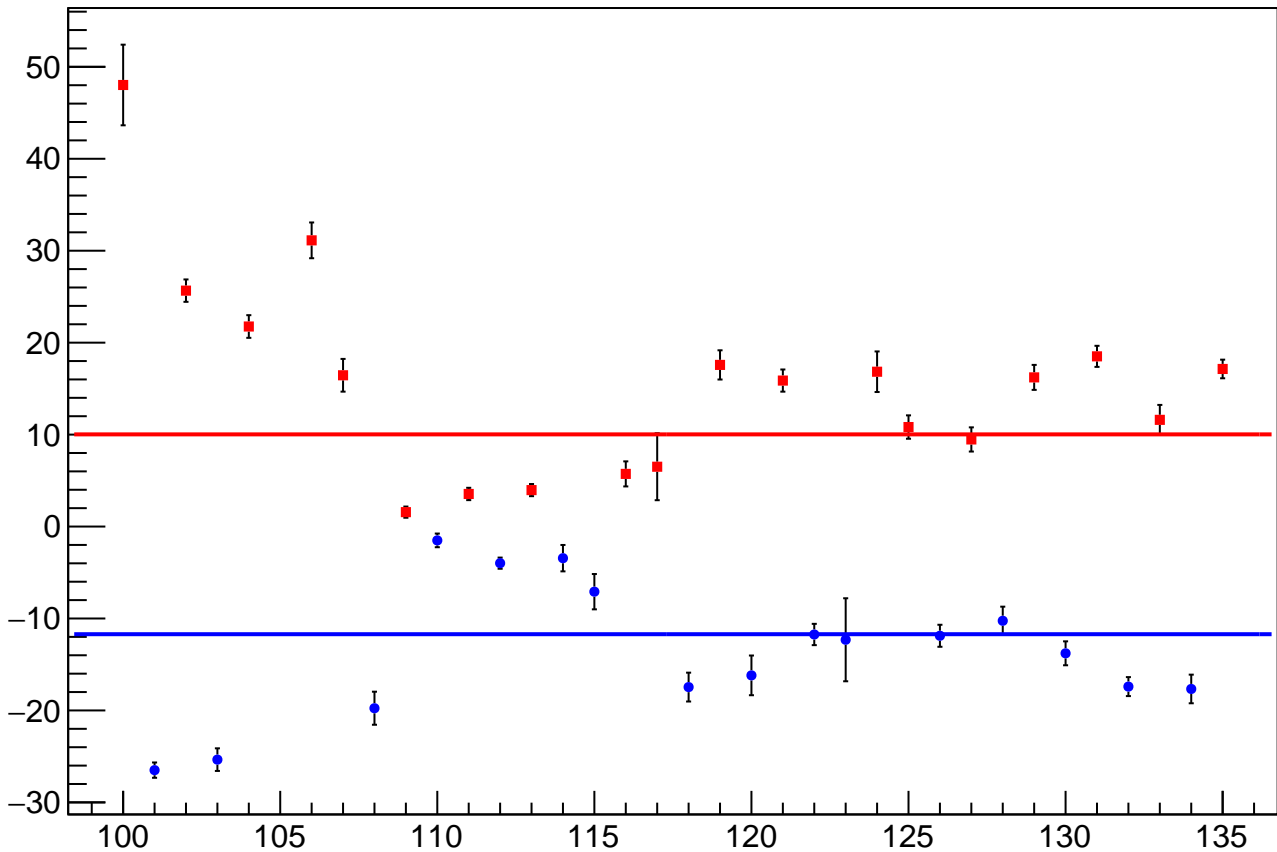
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

0.372 $\pm$ 0.017  $\chi^2$ /NDF: 573.3/15

0.035 $\pm$ 0.011  $\chi^2$ /NDF: 2187.0/34

-0.191 $\pm$ 0.014  $\chi^2$ /NDF: 963.9/18

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-11.709 \pm 0.287$   $\chi^2/\text{NDF}: 913.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $10.025 \pm 0.259$   $\chi^2/\text{NDF}: 1025.6/18$

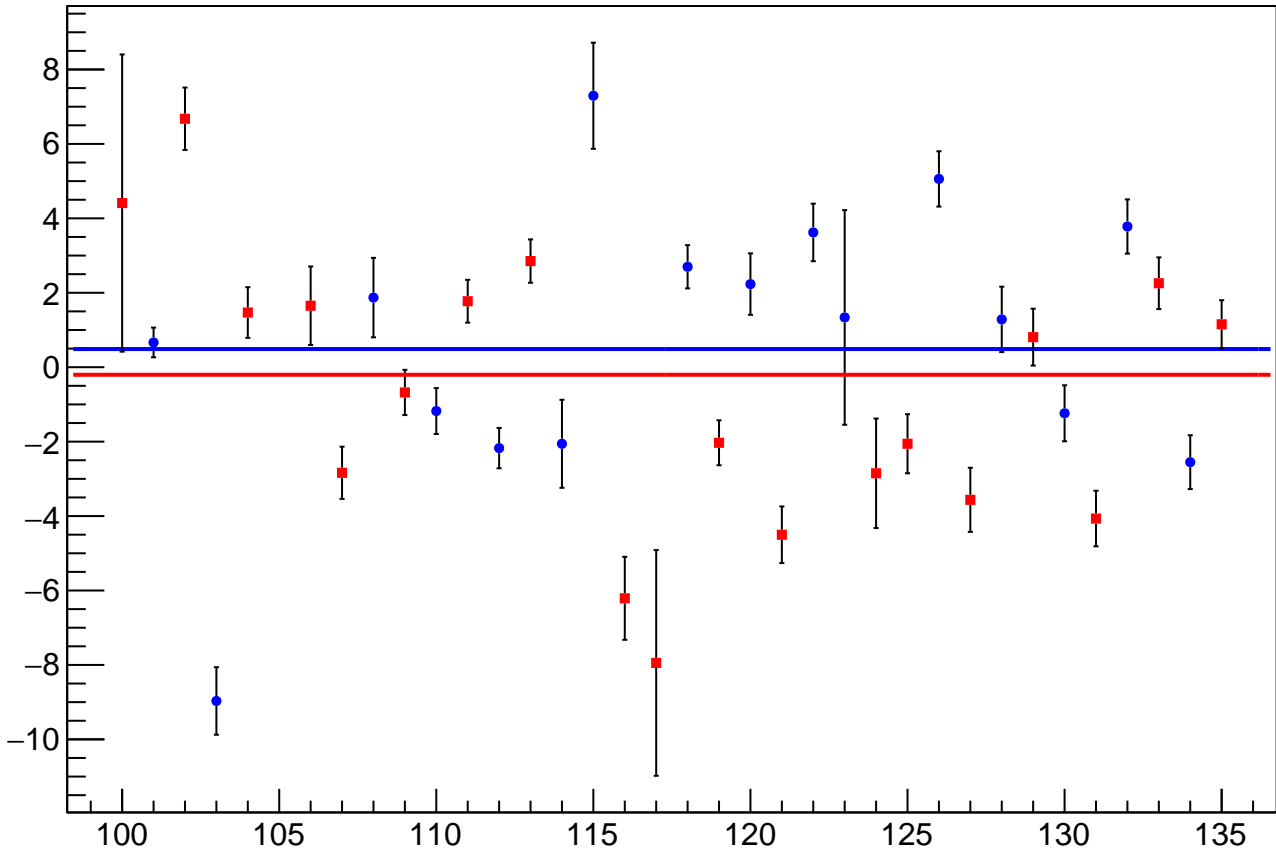
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-11.709 \pm 0.287$   $\chi^2/\text{NDF}: 913.7/15$

$0.270 \pm 0.192$   $\chi^2/\text{NDF}: 5108.0/34$

$10.025 \pm 0.259$   $\chi^2/\text{NDF}: 1025.6/18$

# reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.488+/-0.181  $\chi^2$ /NDF: 286.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.203+/-0.177  $\chi^2$ /NDF: 277.7/18

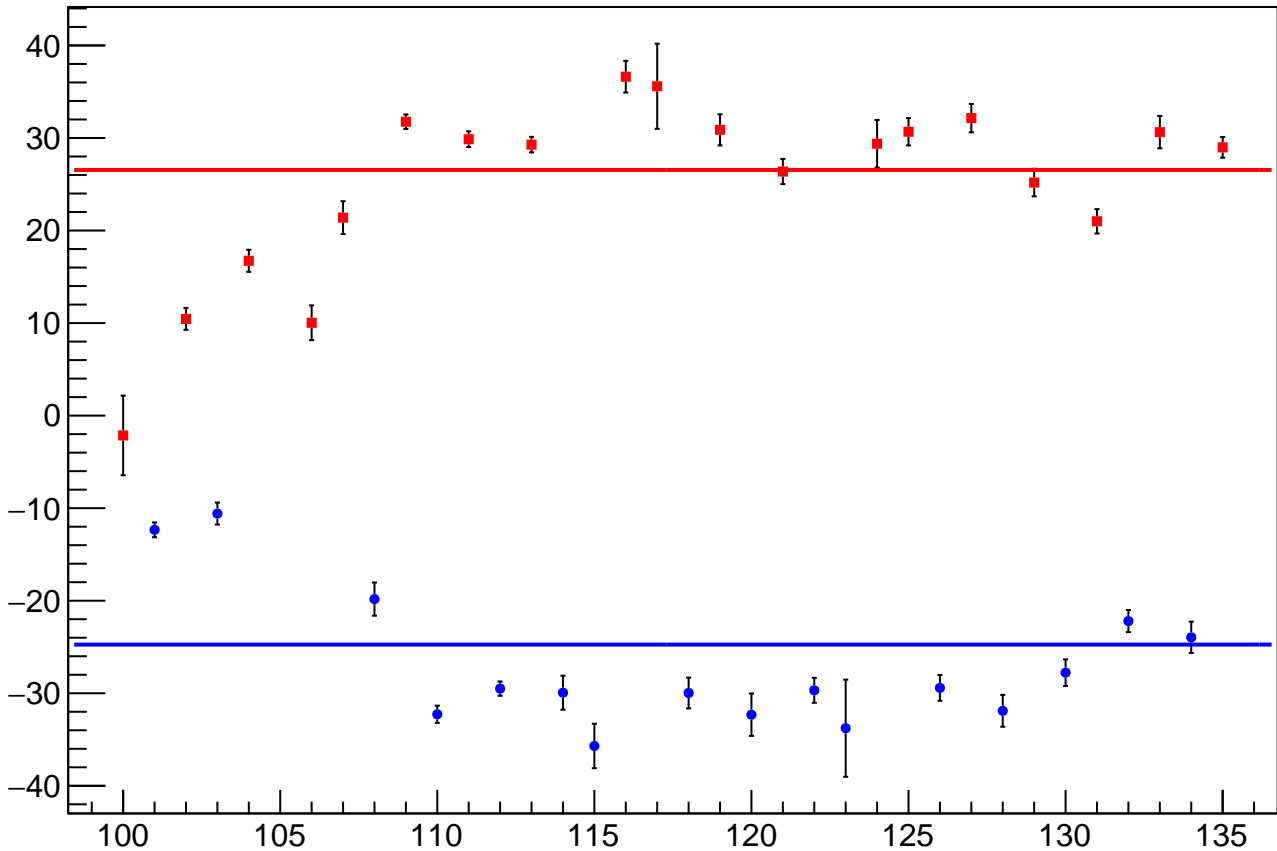
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.488+/-0.181  $\chi^2$ /NDF: 286.7/15

0.134+/-0.127  $\chi^2$ /NDF: 571.9/34

-0.203+/-0.177  $\chi^2$ /NDF: 277.7/18

# reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-24.739 \pm 0.326$   $\chi^2/\text{NDF}: 595.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $26.544 \pm 0.302$   $\chi^2/\text{NDF}: 551.0/18$

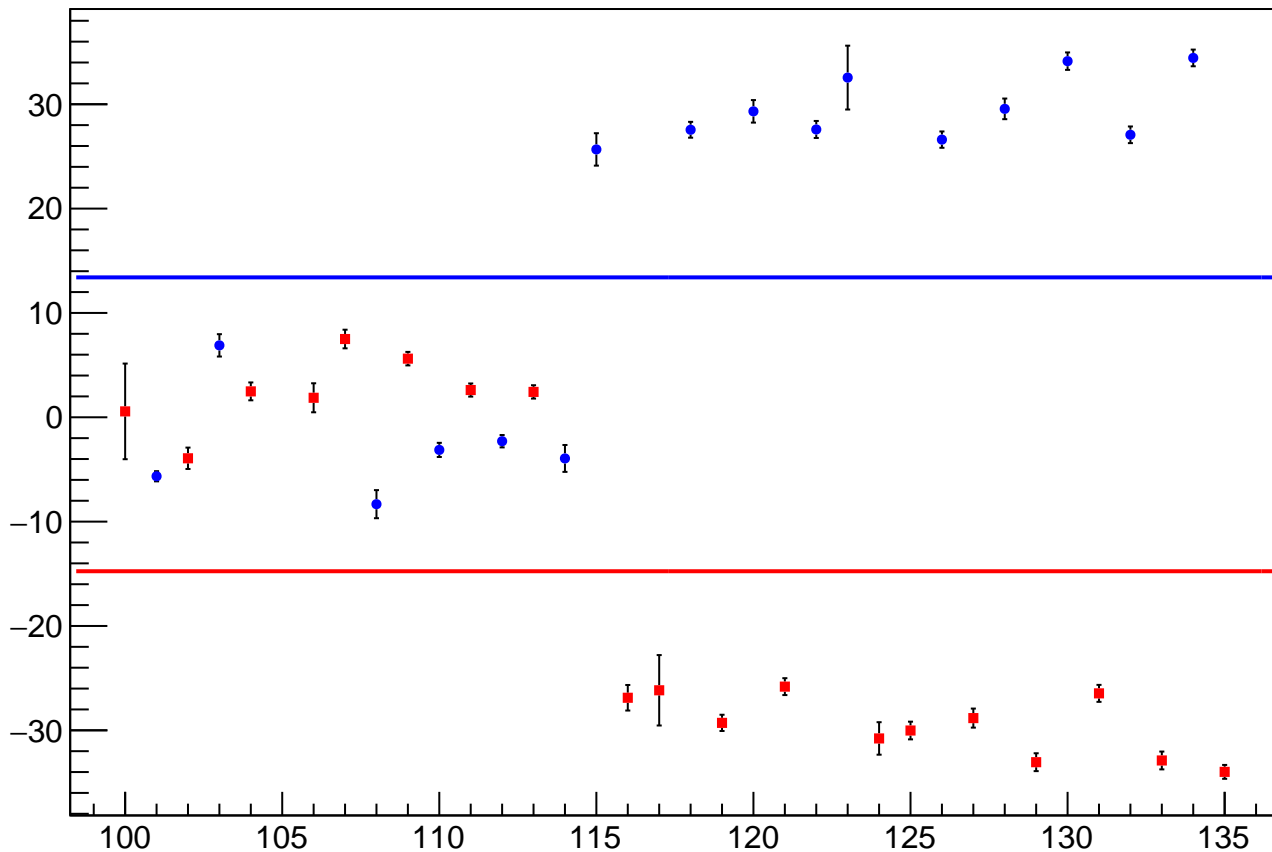
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-24.739 \pm 0.326$   $\chi^2/\text{NDF}: 595.2/15$

$2.873 \pm 0.222$   $\chi^2/\text{NDF}: 14459.9/34$

$26.544 \pm 0.302$   $\chi^2/\text{NDF}: 551.0/18$

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 13.408+/-0.208  $\chi^2$ /NDF: 6420.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -14.755+/-0.200  $\chi^2$ /NDF: 7033.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

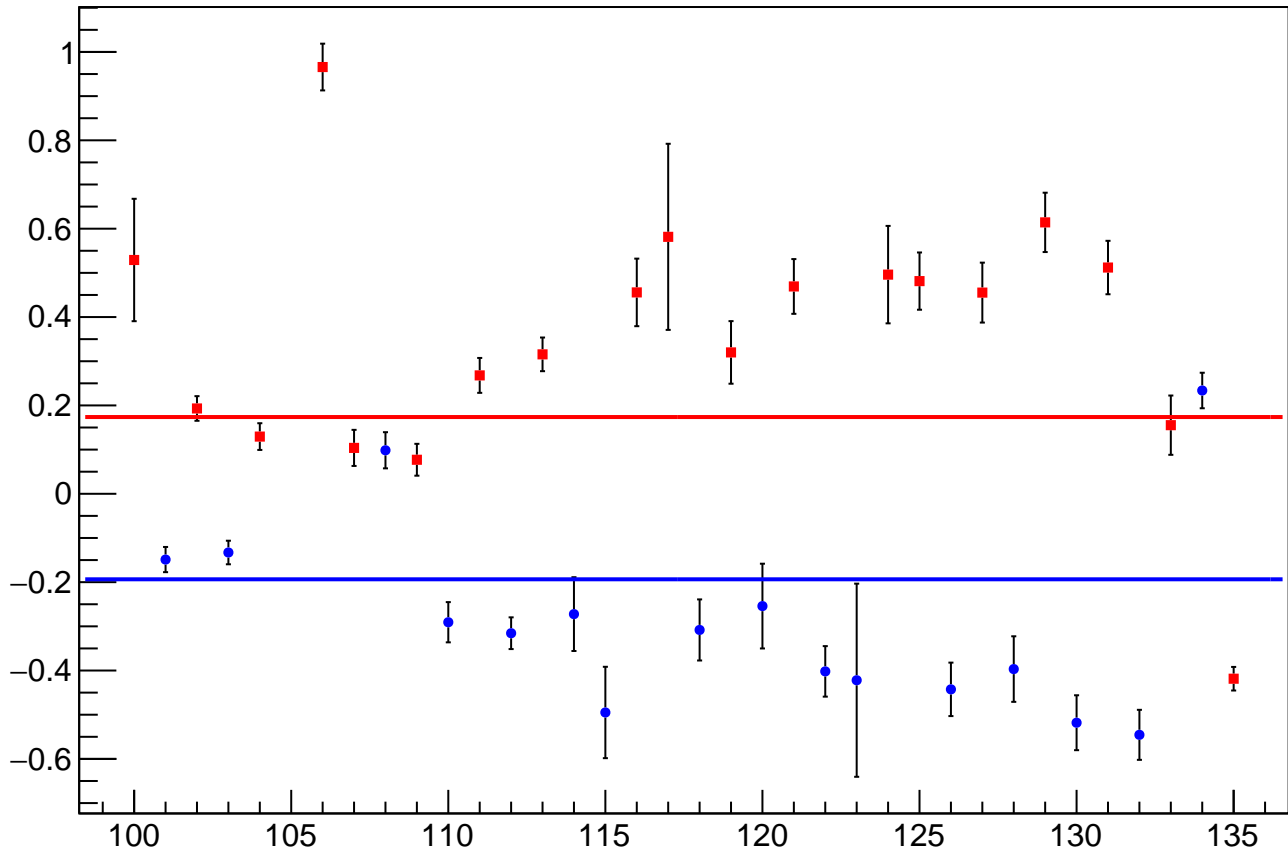
13.408+/-0.208  $\chi^2$ /NDF: 6420.7/15

-1.219+/-0.144  $\chi^2$ /NDF: 22964.0/34

-14.755+/-0.200  $\chi^2$ /NDF: 7033.4/18



# reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.194 \pm 0.012$   $\chi^2/\text{NDF}: 305.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.174 \pm 0.011$   $\chi^2/\text{NDF}: 922.4/18$

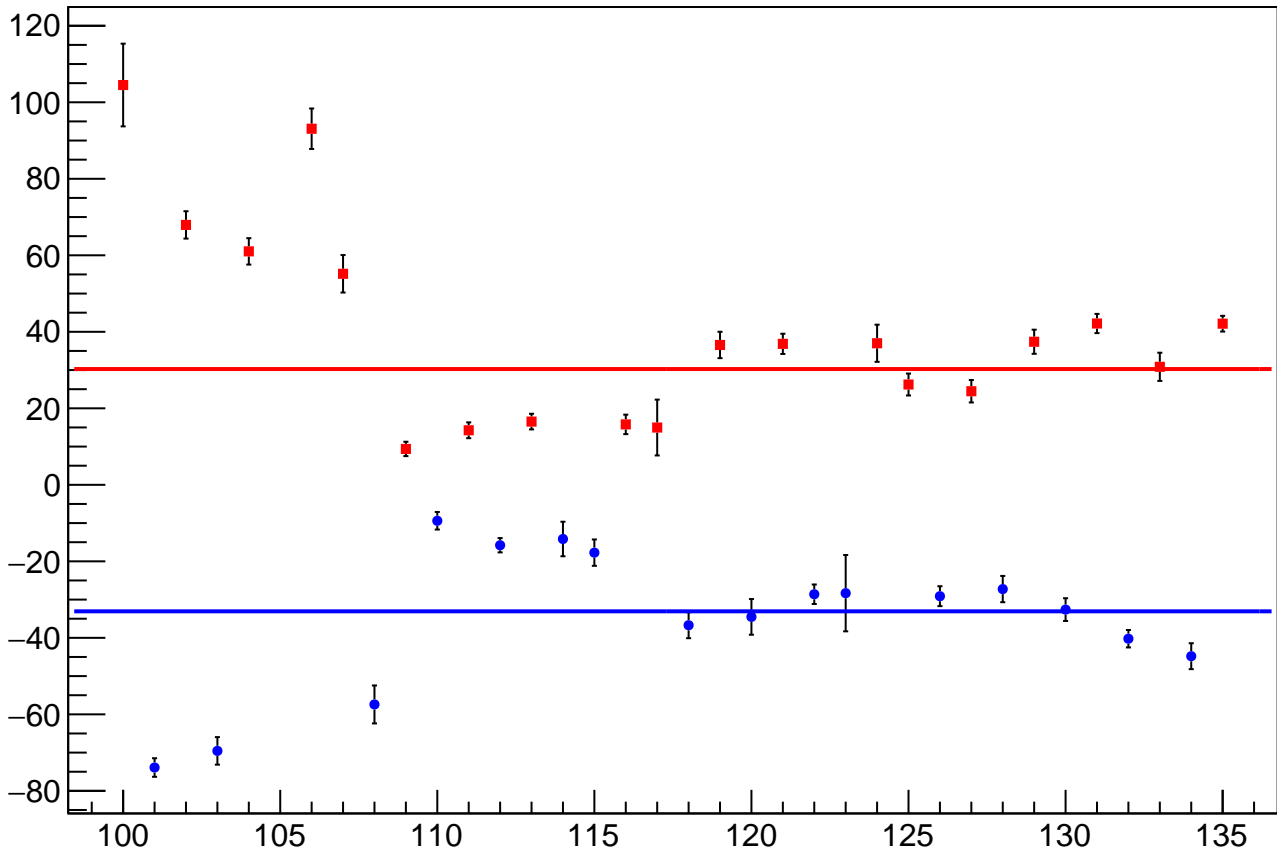
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.194 \pm 0.012$   $\chi^2/\text{NDF}: 305.0/15$

$0.011 \pm 0.008$   $\chi^2/\text{NDF}: 1754.0/34$

$0.174 \pm 0.011$   $\chi^2/\text{NDF}: 922.4/18$

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-33.069 \pm 0.741$   $\chi^2/\text{NDF}: 670.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $30.269 \pm 0.666$   $\chi^2/\text{NDF}: 748.1/18$

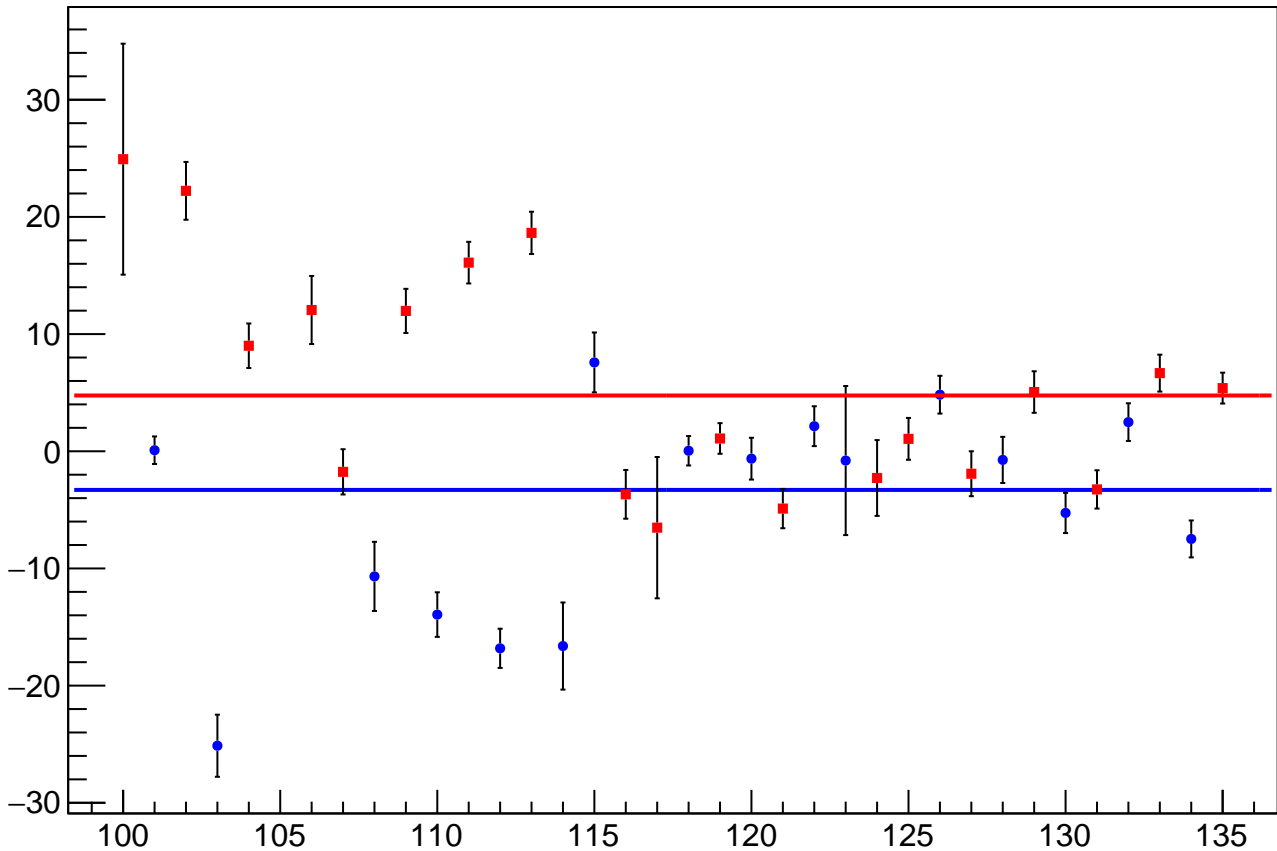
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-33.069 \pm 0.741$   $\chi^2/\text{NDF}: 670.3/15$

$1.989 \pm 0.495$   $\chi^2/\text{NDF}: 5457.4/34$

$30.269 \pm 0.666$   $\chi^2/\text{NDF}: 748.1/18$

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.298+/-0.450  $\chi^2$ /NDF: 278.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4.761+/-0.435  $\chi^2$ /NDF: 299.4/18

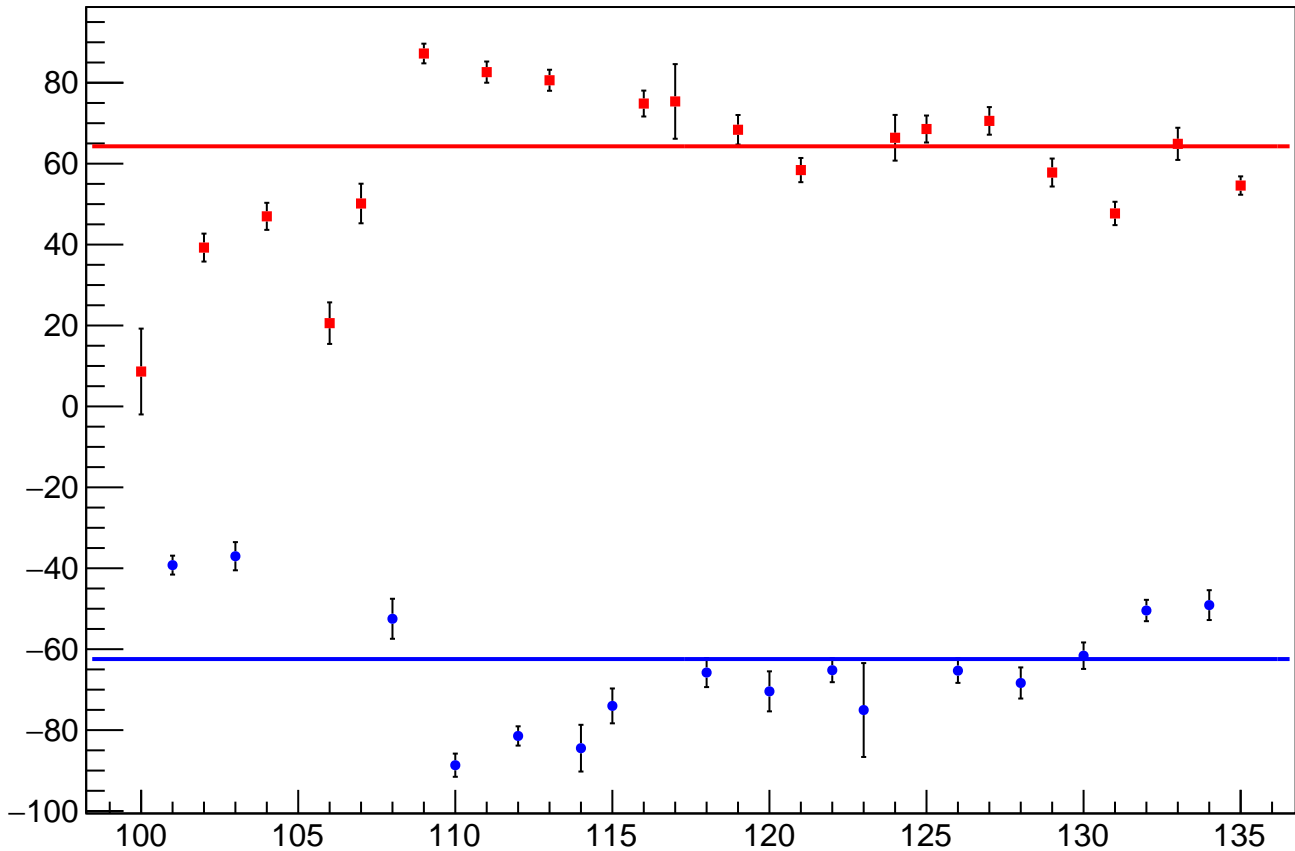
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-3.298+/-0.450  $\chi^2$ /NDF: 278.0/15

0.876+/-0.313  $\chi^2$ /NDF: 743.2/34

4.761+/-0.435  $\chi^2$ /NDF: 299.4/18

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-62.440 \pm 0.841$   $\chi^2/\text{NDF}: 367.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $64.287 \pm 0.769$   $\chi^2/\text{NDF}: 442.6/18$

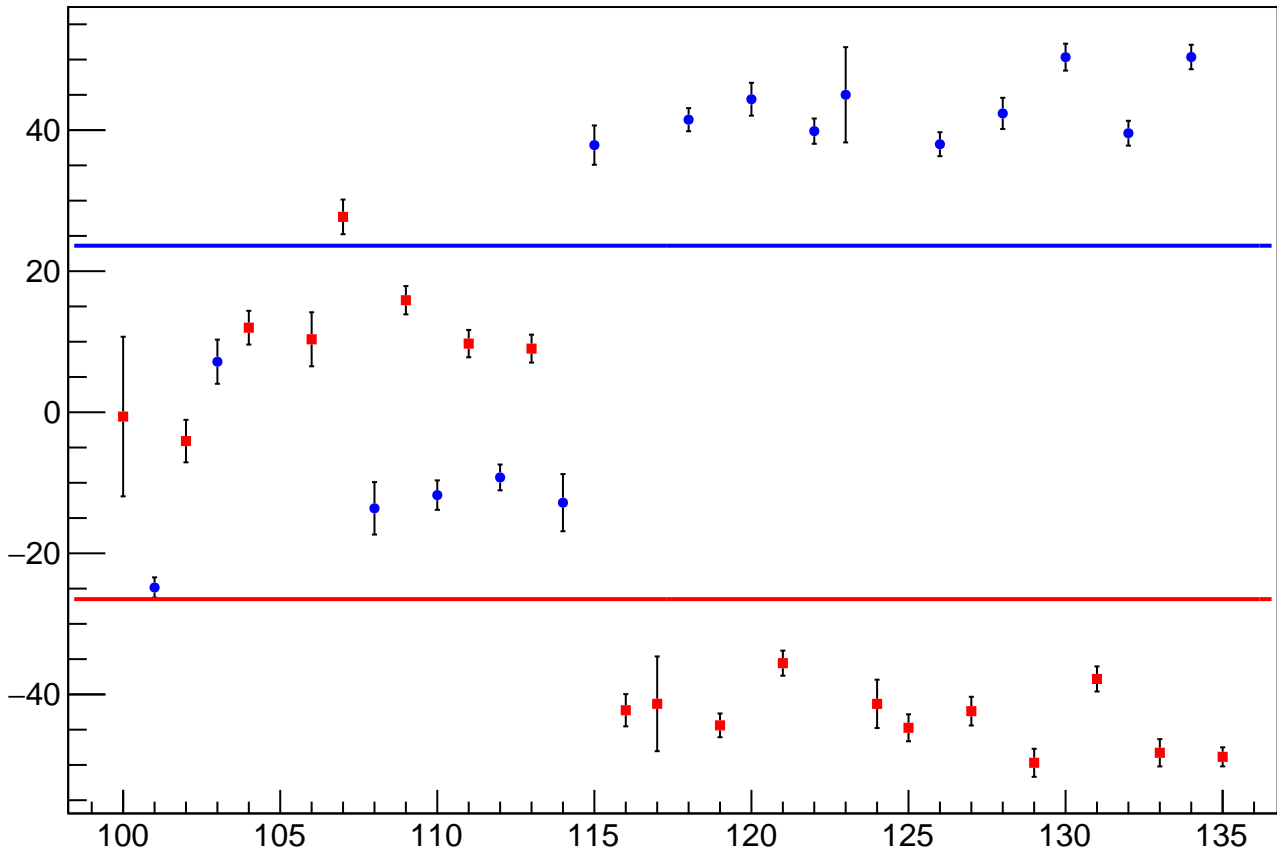
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-62.440 \pm 0.841$   $\chi^2/\text{NDF}: 367.6/15$

$6.539 \pm 0.568$   $\chi^2/\text{NDF}: 13175.8/34$

$64.287 \pm 0.769$   $\chi^2/\text{NDF}: 442.6/18$

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.612+/-0.517  $\chi^2$ /NDF: 2930.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -26.493+/-0.490  $\chi^2$ /NDF: 2953.3/18

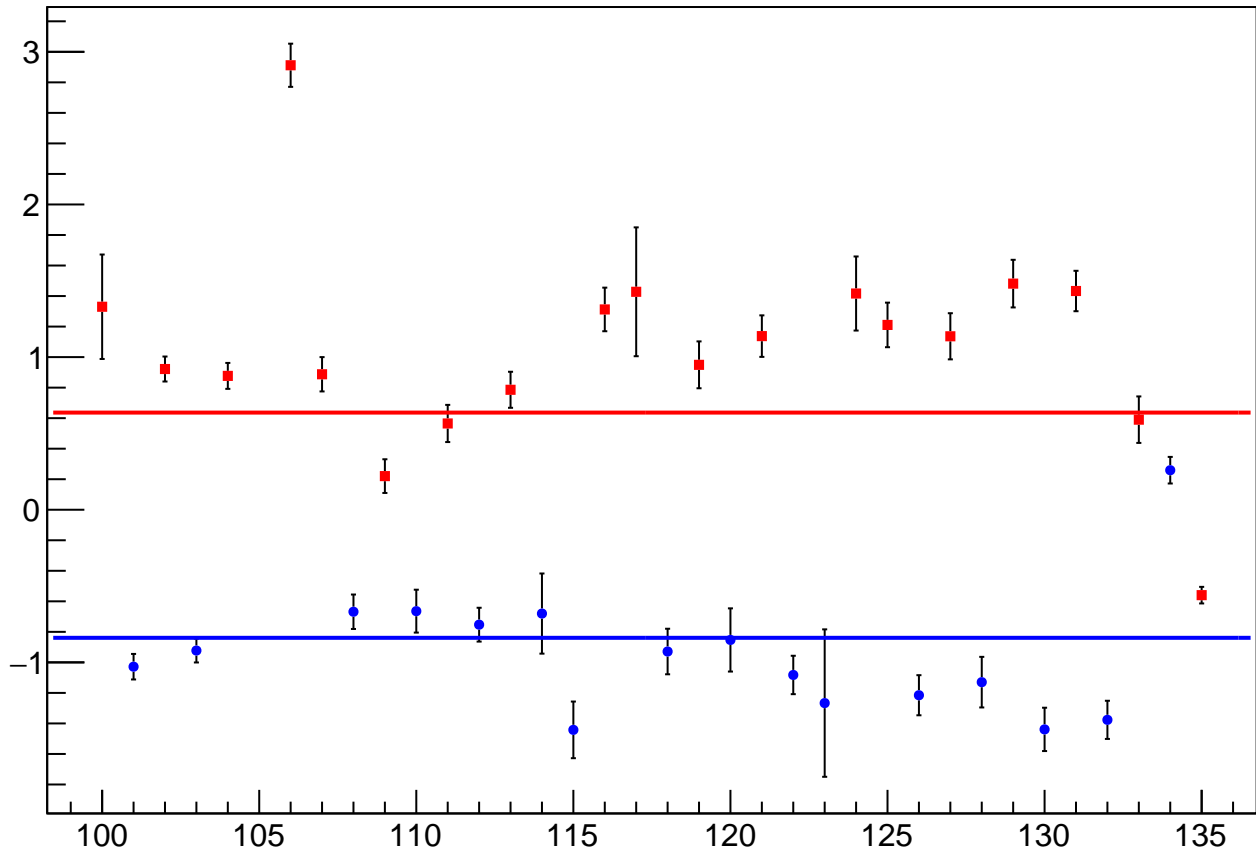
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

23.612+/-0.517  $\chi^2$ /NDF: 2930.7/15

-2.758+/-0.356  $\chi^2$ /NDF: 10831.8/34

-26.493+/-0.490  $\chi^2$ /NDF: 2953.3/18

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.839 \pm 0.031$   $\chi^2/\text{NDF}: 233.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.637 \pm 0.027$   $\chi^2/\text{NDF}: 935.1/18$

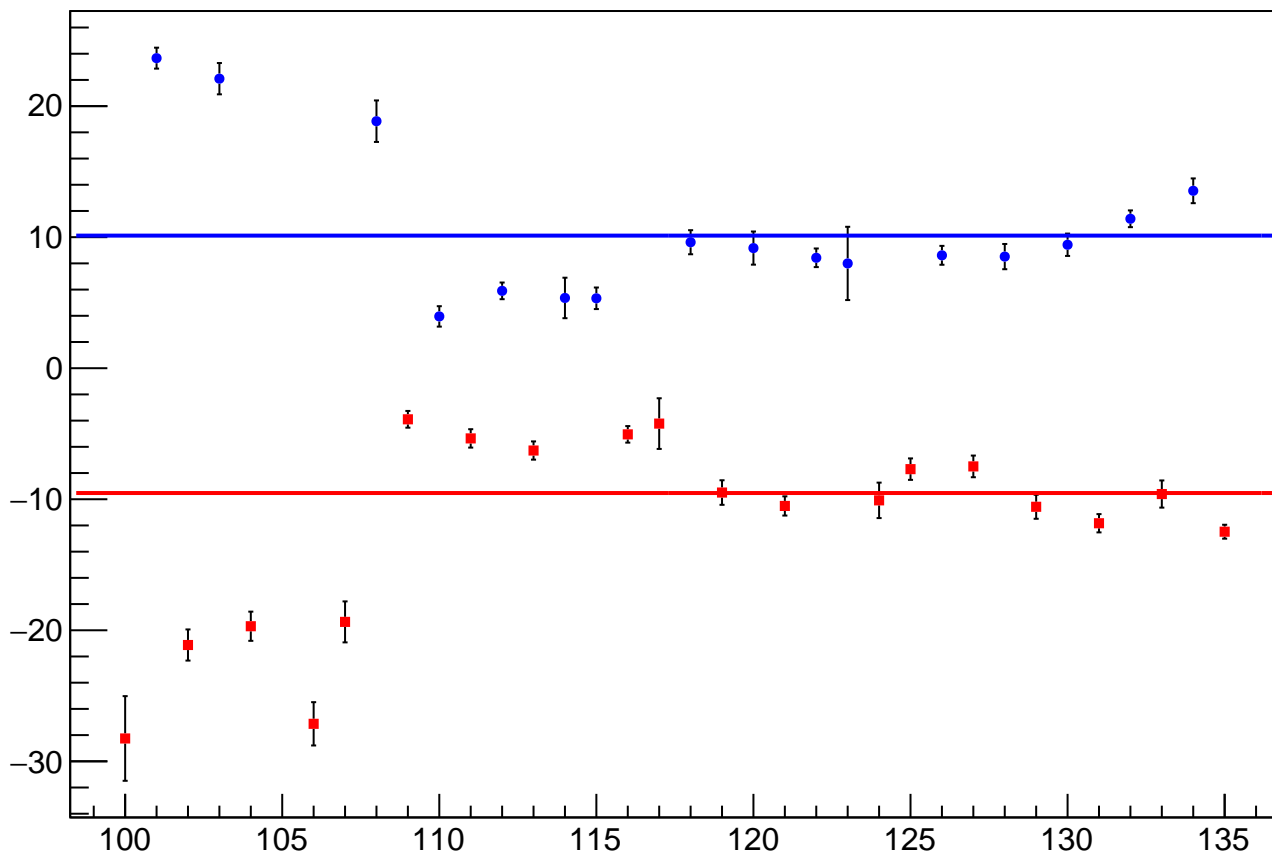
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.839 \pm 0.031$   $\chi^2/\text{NDF}: 233.1/15$

$0.005 \pm 0.020$   $\chi^2/\text{NDF}: 2459.3/34$

$0.637 \pm 0.027$   $\chi^2/\text{NDF}: 935.1/18$

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 10.119+/-0.221  $\chi^2$ /NDF: 599.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -9.526+/-0.196  $\chi^2$ /NDF: 613.9/18

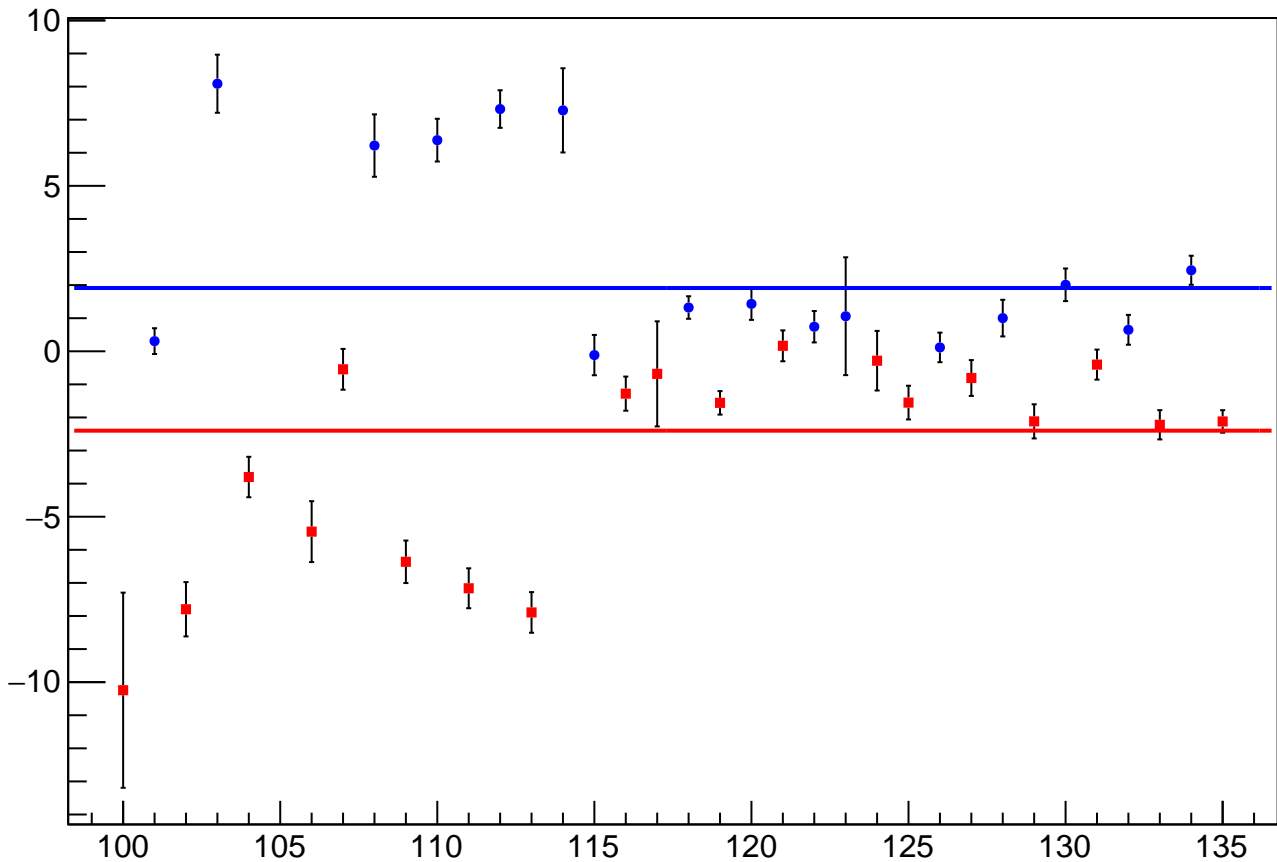
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

10.119+/-0.221  $\chi^2$ /NDF: 599.8/15

-0.842+/-0.147  $\chi^2$ /NDF: 5637.6/34

-9.526+/-0.196  $\chi^2$ /NDF: 613.9/18

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.912 $\pm$ 0.131  $\chi^2$ /NDF: 293.1/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.399 $\pm$ 0.126  $\chi^2$ /NDF: 335.1/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

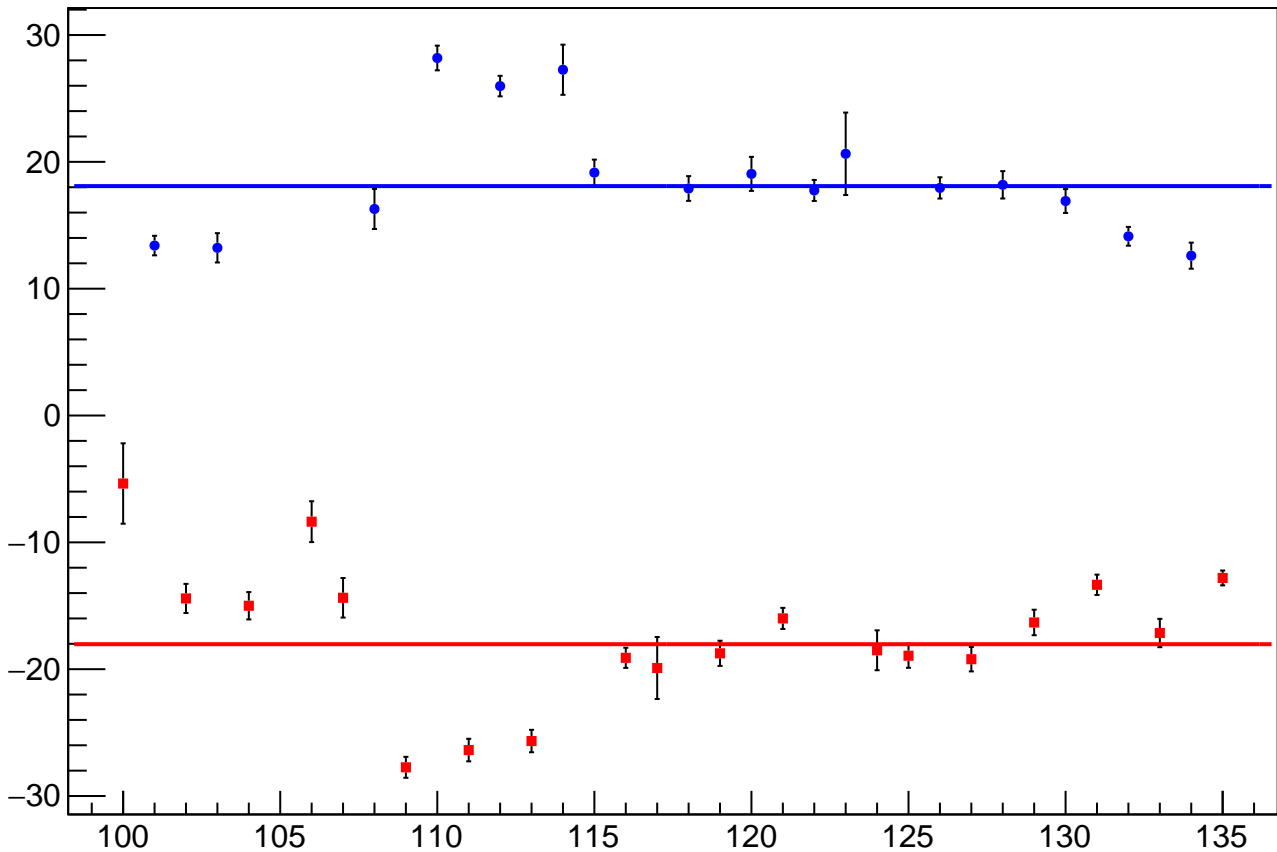
1.912 $\pm$ 0.131  $\chi^2$ /NDF: 293.1/15

-0.341 $\pm$ 0.091  $\chi^2$ /NDF: 1190.9/34

-2.399 $\pm$ 0.126  $\chi^2$ /NDF: 335.1/18



reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 18.087 $\pm$ 0.250  $\chi^2$ /NDF: 341.2/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -18.031 $\pm$ 0.226  $\chi^2$ /NDF: 504.6/18

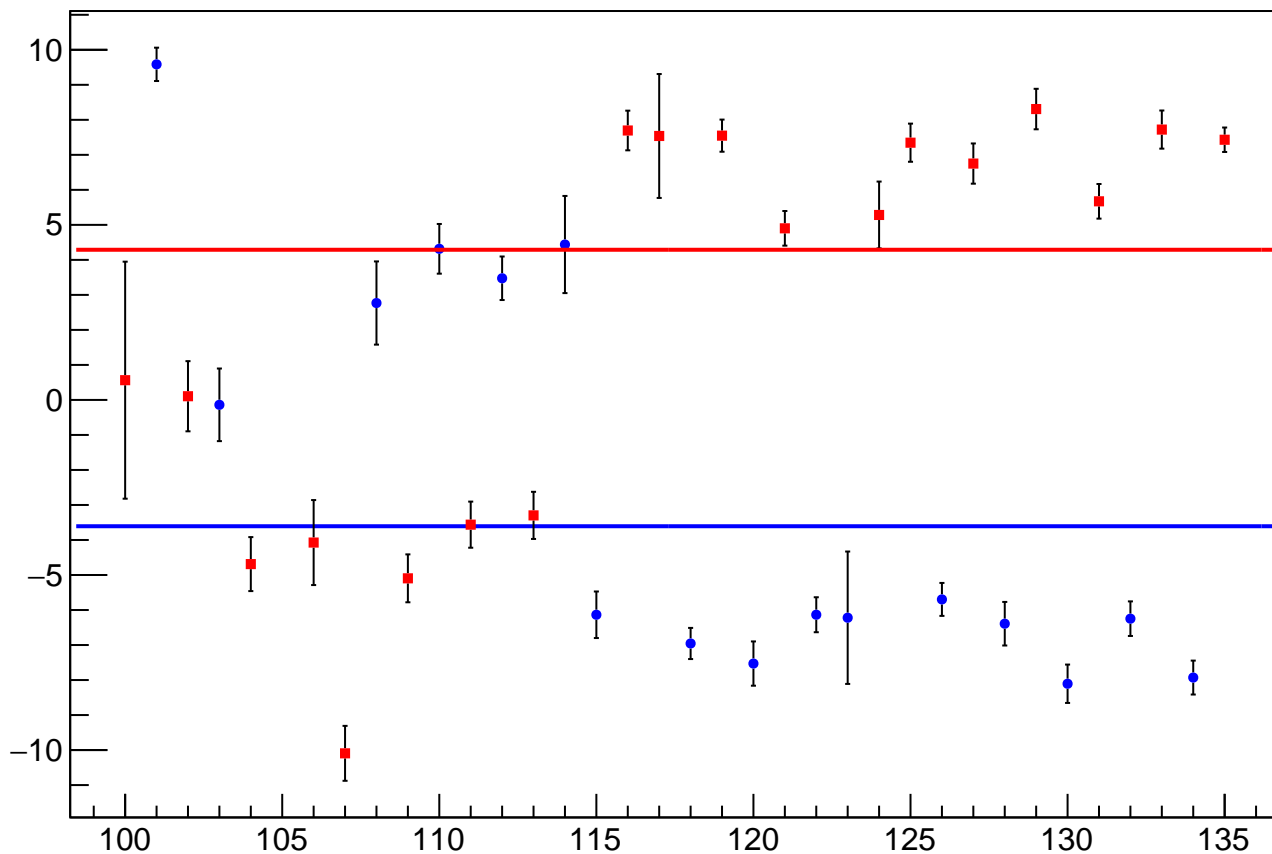
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

18.087 $\pm$ 0.250  $\chi^2$ /NDF: 341.2/15

-1.813 $\pm$ 0.168  $\chi^2$ /NDF: 12322.4/34

-18.031 $\pm$ 0.226  $\chi^2$ /NDF: 504.6/18

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-3.607 \pm 0.151$   $\chi^2/\text{NDF}: 1448.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $4.289 \pm 0.141$   $\chi^2/\text{NDF}: 1314.5/18$

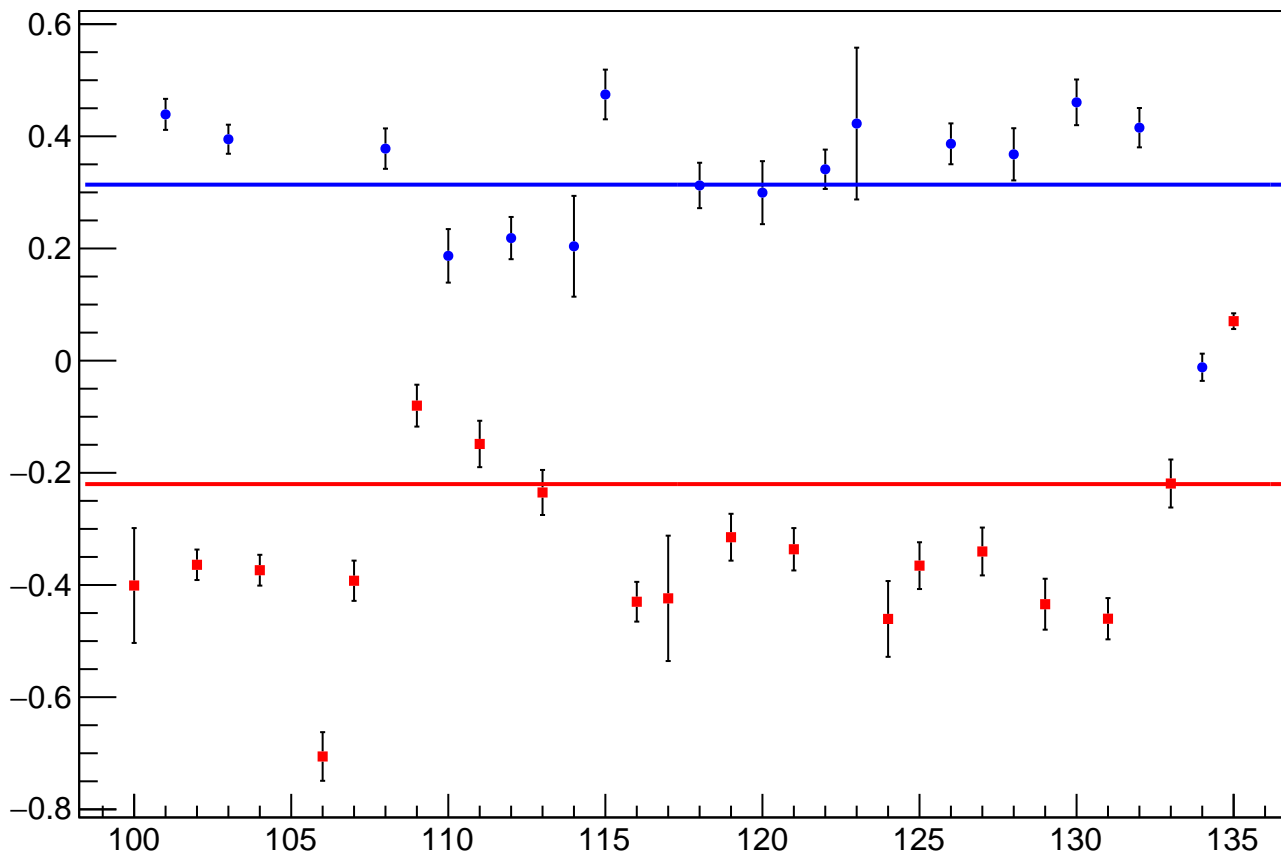
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-3.607 \pm 0.151$   $\chi^2/\text{NDF}: 1448.2/15$

$0.597 \pm 0.103$   $\chi^2/\text{NDF}: 4224.7/34$

$4.289 \pm 0.141$   $\chi^2/\text{NDF}: 1314.5/18$

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.314+/-0.009  $\chi^2$ /NDF: 269.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.220+/-0.008  $\chi^2$ /NDF: 807.7/18

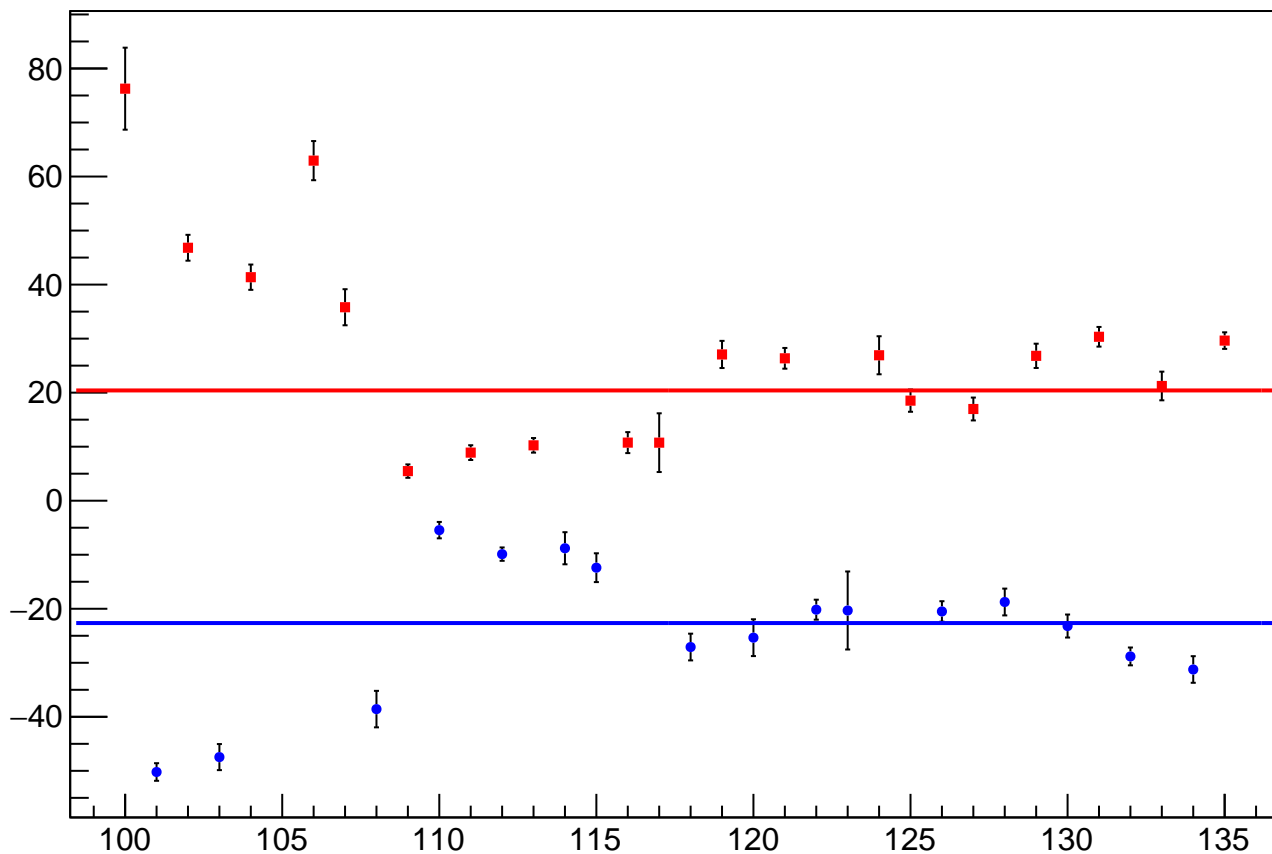
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.314+/-0.009  $\chi^2$ /NDF: 269.7/15

-0.000+/-0.006  $\chi^2$ /NDF: 2999.3/34

-0.220+/-0.008  $\chi^2$ /NDF: 807.7/18

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: -22.646 $\pm$ 0.517  $\chi^2$ /NDF: 721.6/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 20.409 $\pm$ 0.466  $\chi^2$ /NDF: 812.9/18

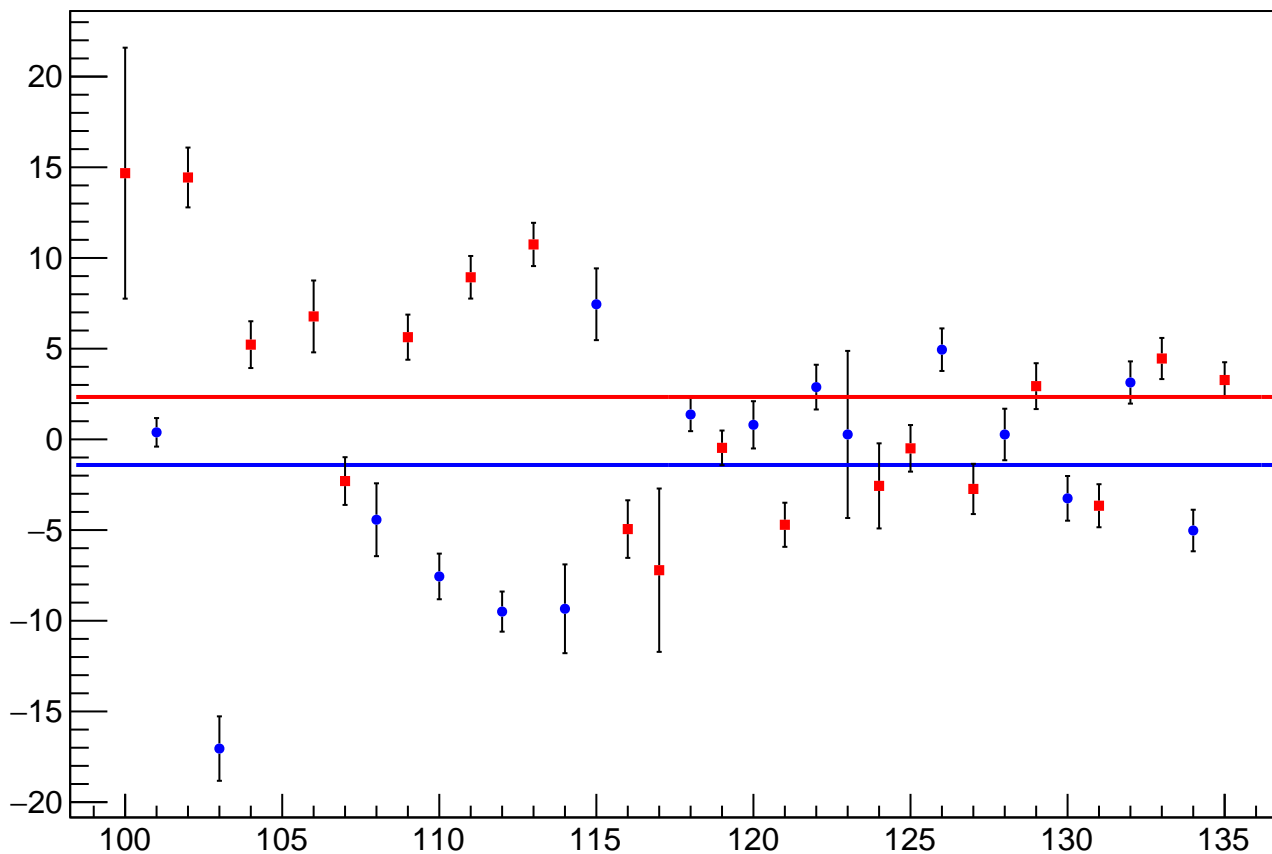
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

-22.646 $\pm$ 0.517  $\chi^2$ /NDF: 721.6/15

1.135 $\pm$ 0.346  $\chi^2$ /NDF: 5358.5/34

20.409 $\pm$ 0.466  $\chi^2$ /NDF: 812.9/18

# reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-1.412 \pm 0.318$   $\chi^2/\text{NDF}: 275.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $2.337 \pm 0.307$   $\chi^2/\text{NDF}: 288.3/18$

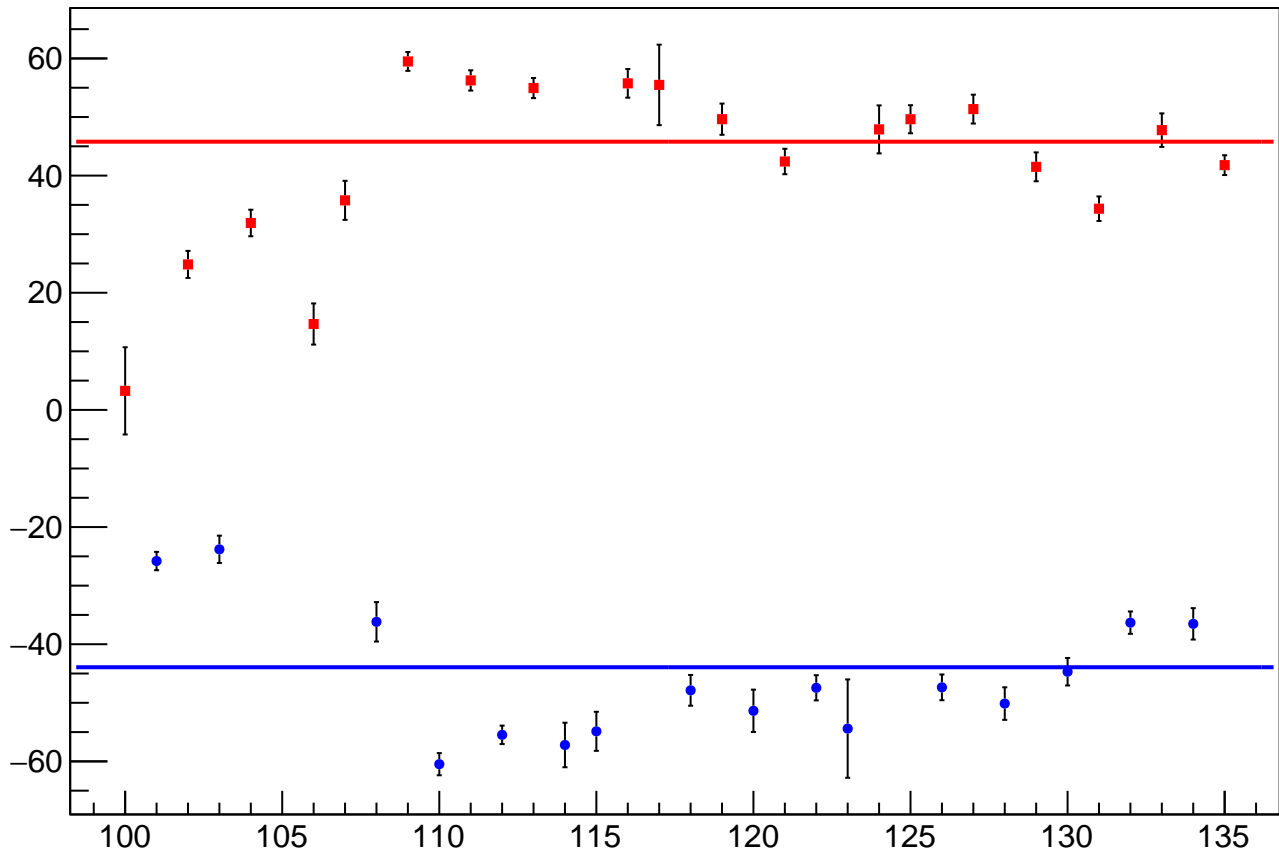
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1.412 \pm 0.318$   $\chi^2/\text{NDF}: 275.3/15$

$0.523 \pm 0.221$   $\chi^2/\text{NDF}: 635.6/34$

$2.337 \pm 0.307$   $\chi^2/\text{NDF}: 288.3/18$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-43.930 \pm 0.587$   $\chi^2/\text{NDF}: 407.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $45.792 \pm 0.539$   $\chi^2/\text{NDF}: 447.4/18$

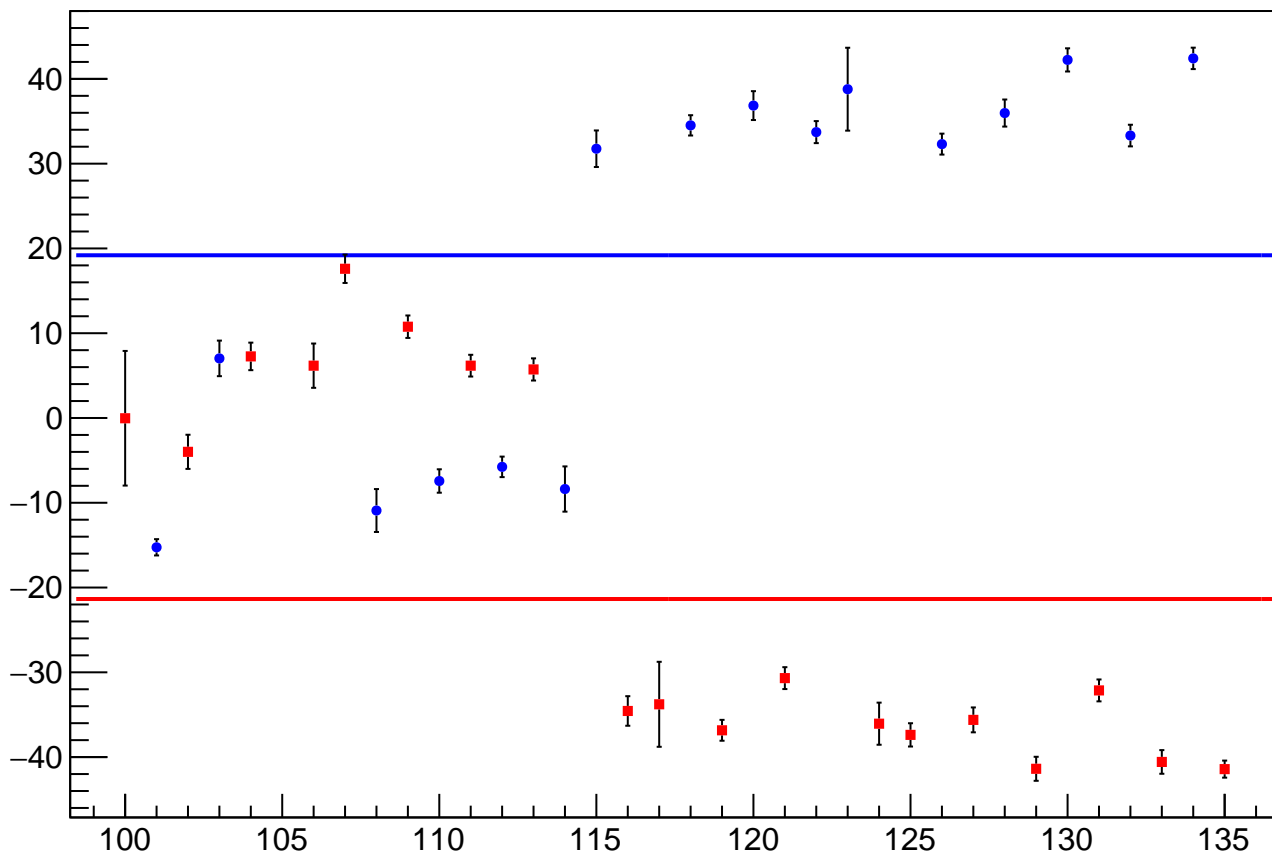
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-43.930 \pm 0.587$   $\chi^2/\text{NDF}: 407.9/15$

$4.714 \pm 0.397$   $\chi^2/\text{NDF}: 13521.1/34$

$45.792 \pm 0.539$   $\chi^2/\text{NDF}: 447.4/18$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 19.194+/-0.364  $\chi^2$ /NDF: 3777.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -21.353+/-0.347  $\chi^2$ /NDF: 3918.6/18

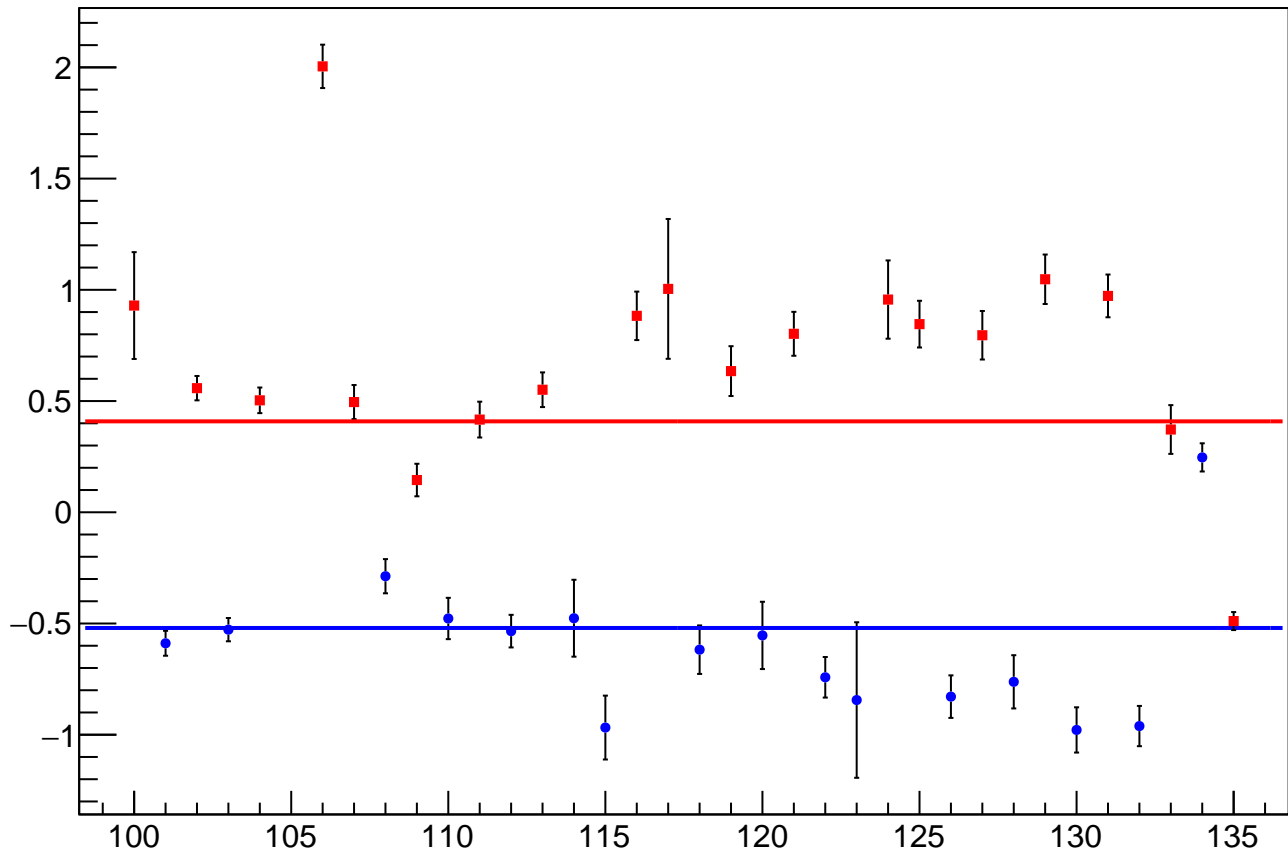
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

19.194+/-0.364  $\chi^2$ /NDF: 3777.4/15

-2.057+/-0.251  $\chi^2$ /NDF: 14183.0/34

-21.353+/-0.347  $\chi^2$ /NDF: 3918.6/18

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.520 \pm 0.022$   $\chi^2/\text{NDF}: 233.5/15$

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:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

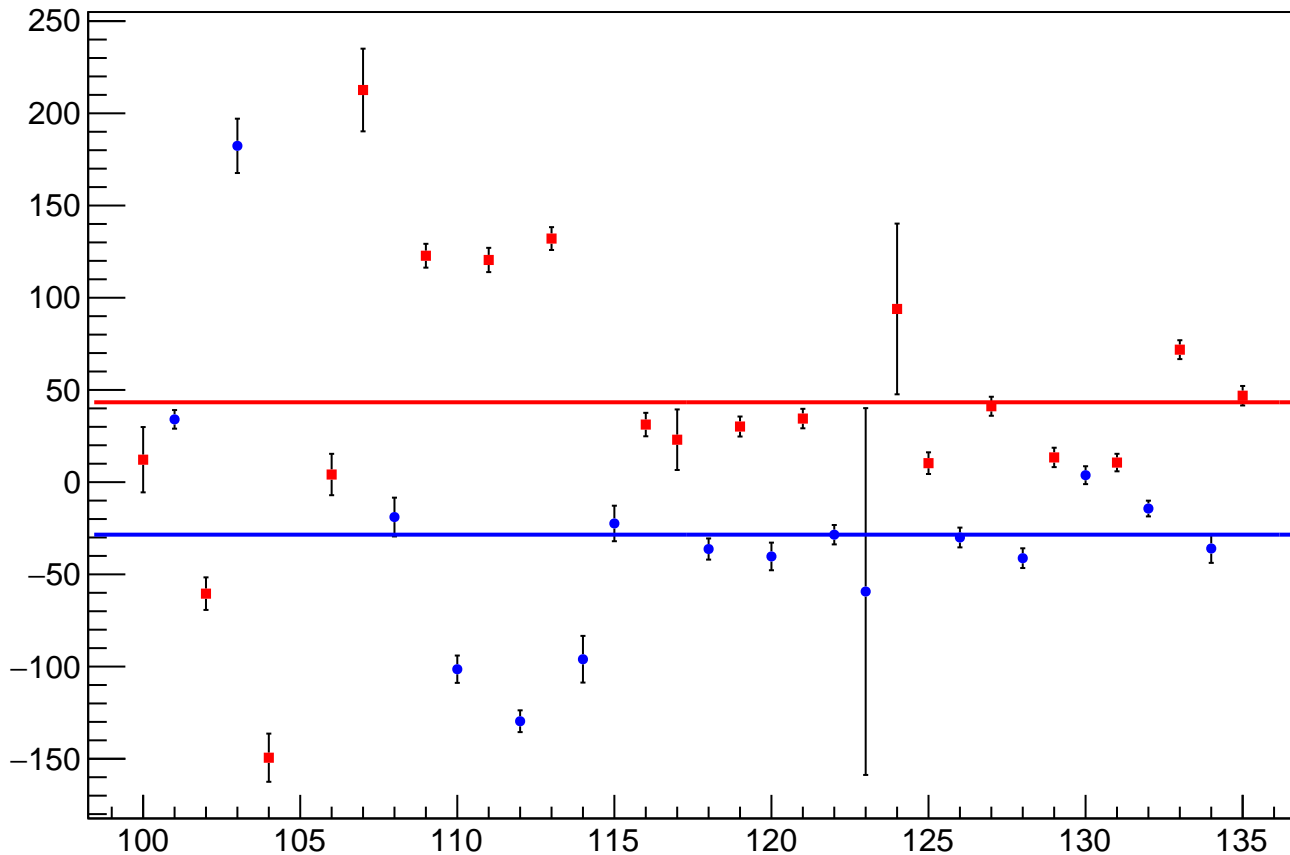
$-0.520 \pm 0.022$   $\chi^2/\text{NDF}: 233.5/15$

$0.006 \pm 0.014$   $\chi^2/\text{NDF}: 2223.6/34$

$0.409 \pm 0.019$   $\chi^2/\text{NDF}: 943.0/18$



# reg\_asym\_atl1\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-28.471 \pm 1.612$   $\chi^2/\text{NDF}: 844.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $43.312 \pm 1.534$   $\chi^2/\text{NDF}: 1080.4/18$

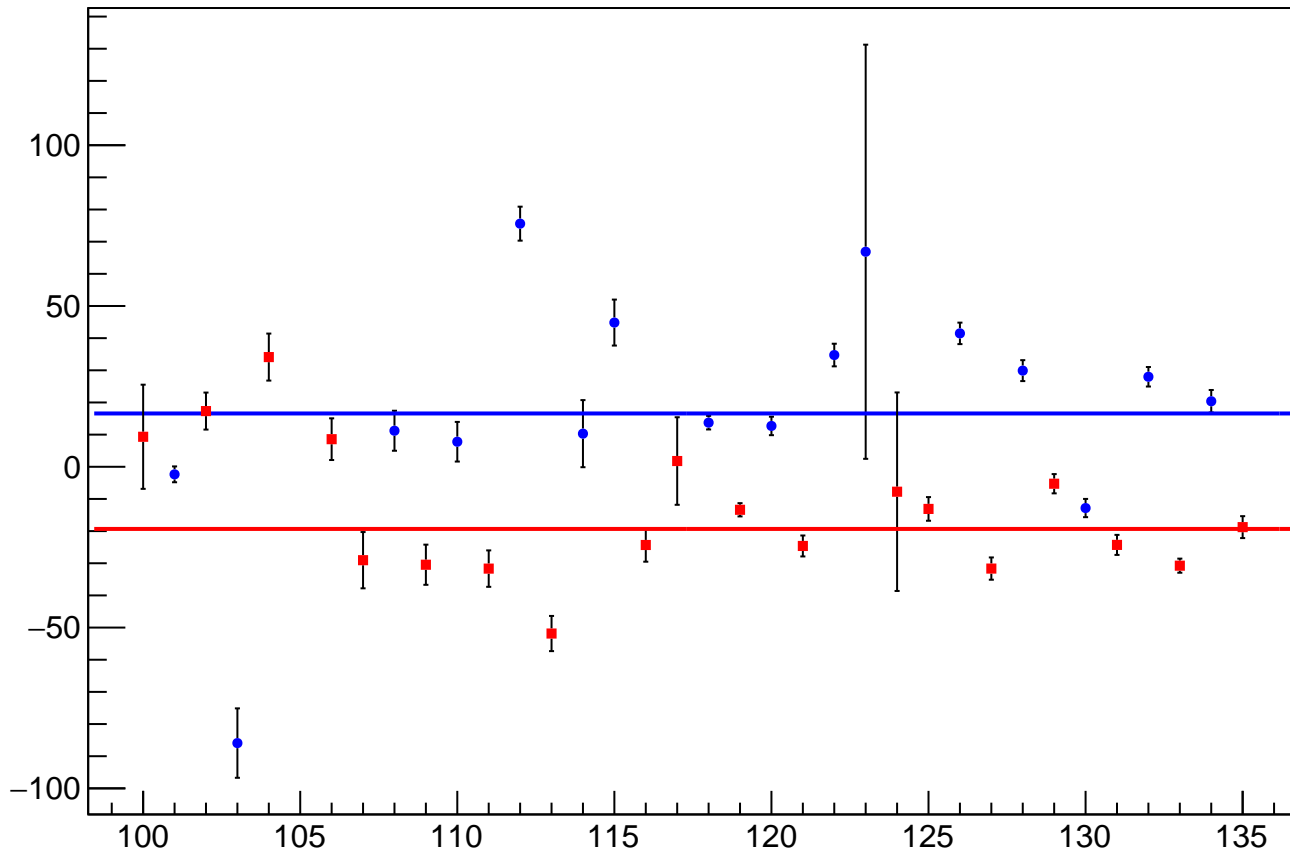
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-28.471 \pm 1.612$   $\chi^2/\text{NDF}: 844.2/15$

$9.191 \pm 1.111$   $\chi^2/\text{NDF}: 2964.8/34$

$43.312 \pm 1.534$   $\chi^2/\text{NDF}: 1080.4/18$

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $16.580 \pm 0.908$   $\chi^2/\text{NDF}: 518.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-19.326 \pm 0.906$   $\chi^2/\text{NDF}: 241.9/18$

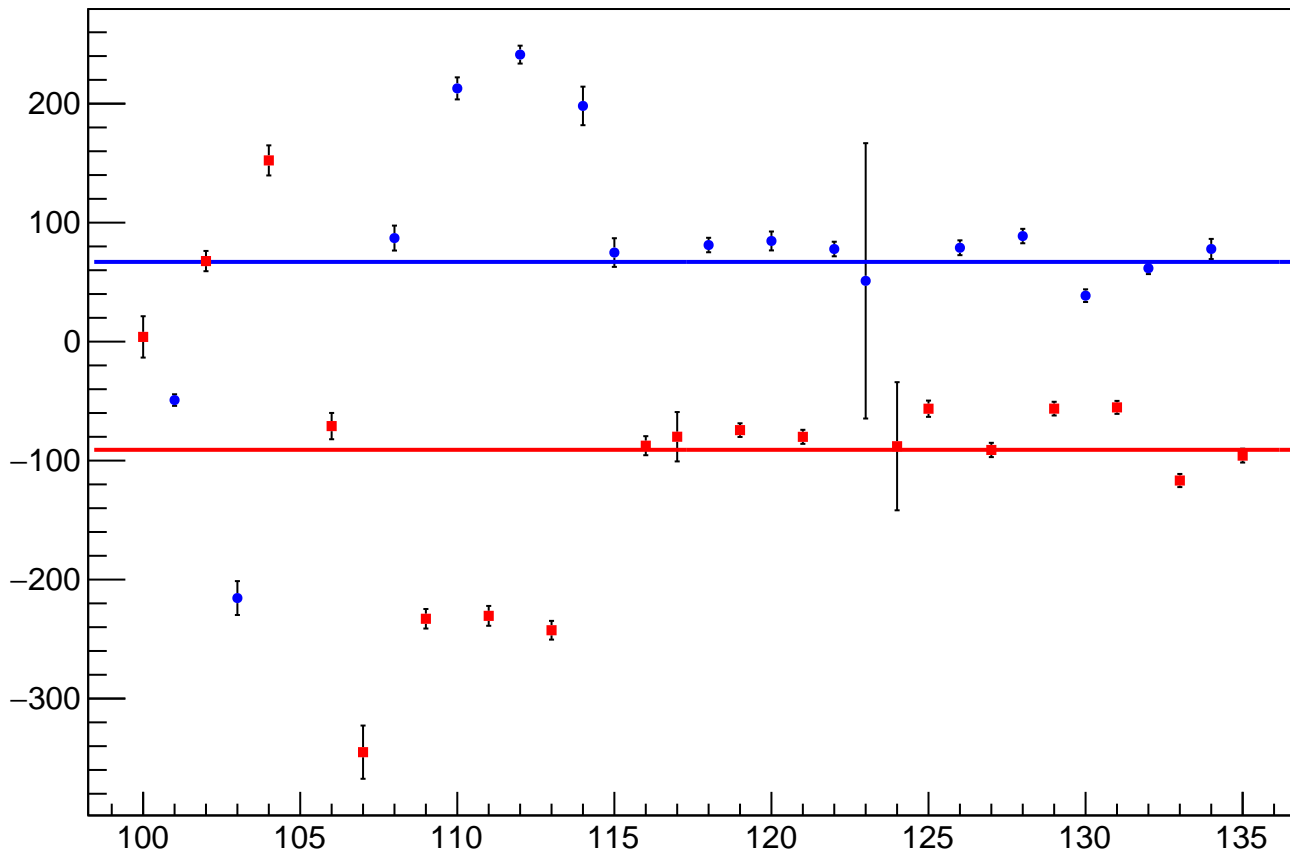
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$16.580 \pm 0.908$   $\chi^2/\text{NDF}: 518.9/15$

$-1.409 \pm 0.641$   $\chi^2/\text{NDF}: 1544.9/34$

$-19.326 \pm 0.906$   $\chi^2/\text{NDF}: 241.9/18$

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $66.998 \pm 1.799$   $\chi^2/\text{NDF}: 1877.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-90.935 \pm 1.738$   $\chi^2/\text{NDF}: 1967.6/18$

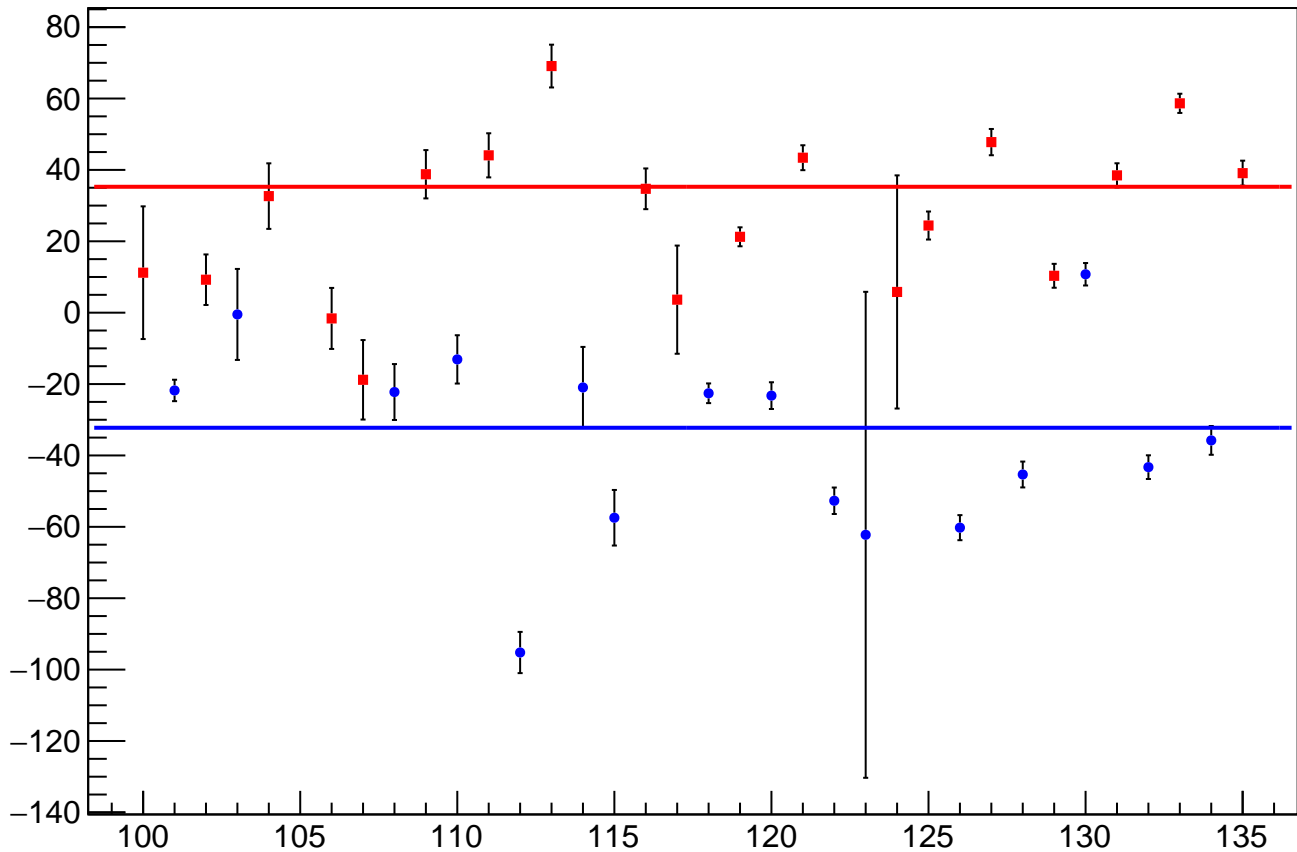
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$66.998 \pm 1.799$   $\chi^2/\text{NDF}: 1877.1/15$

$-14.726 \pm 1.250$   $\chi^2/\text{NDF}: 7830.9/34$

$-90.935 \pm 1.738$   $\chi^2/\text{NDF}: 1967.6/18$

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-32.244 \pm 1.057$   $\chi^2/\text{NDF}: 482.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $35.274 \pm 1.038$   $\chi^2/\text{NDF}: 282.4/18$

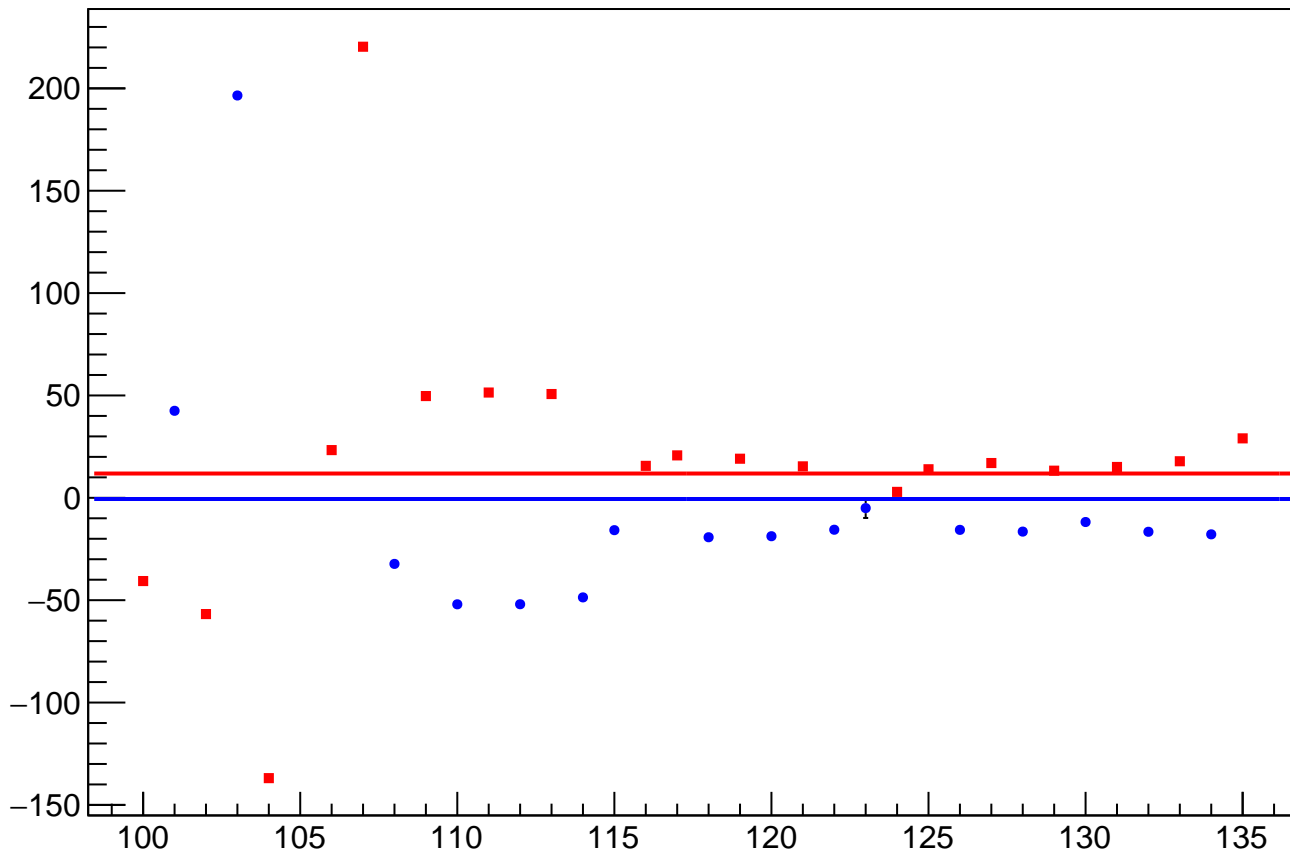
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-32.244 \pm 1.057$   $\chi^2/\text{NDF}: 482.4/15$

$2.103 \pm 0.741$   $\chi^2/\text{NDF}: 2841.8/34$

$35.274 \pm 1.038$   $\chi^2/\text{NDF}: 282.4/18$

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.577 \pm 0.070$   $\chi^2/\text{NDF}: 530139.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $11.869 \pm 0.064$   $\chi^2/\text{NDF}: 552704.9/18$

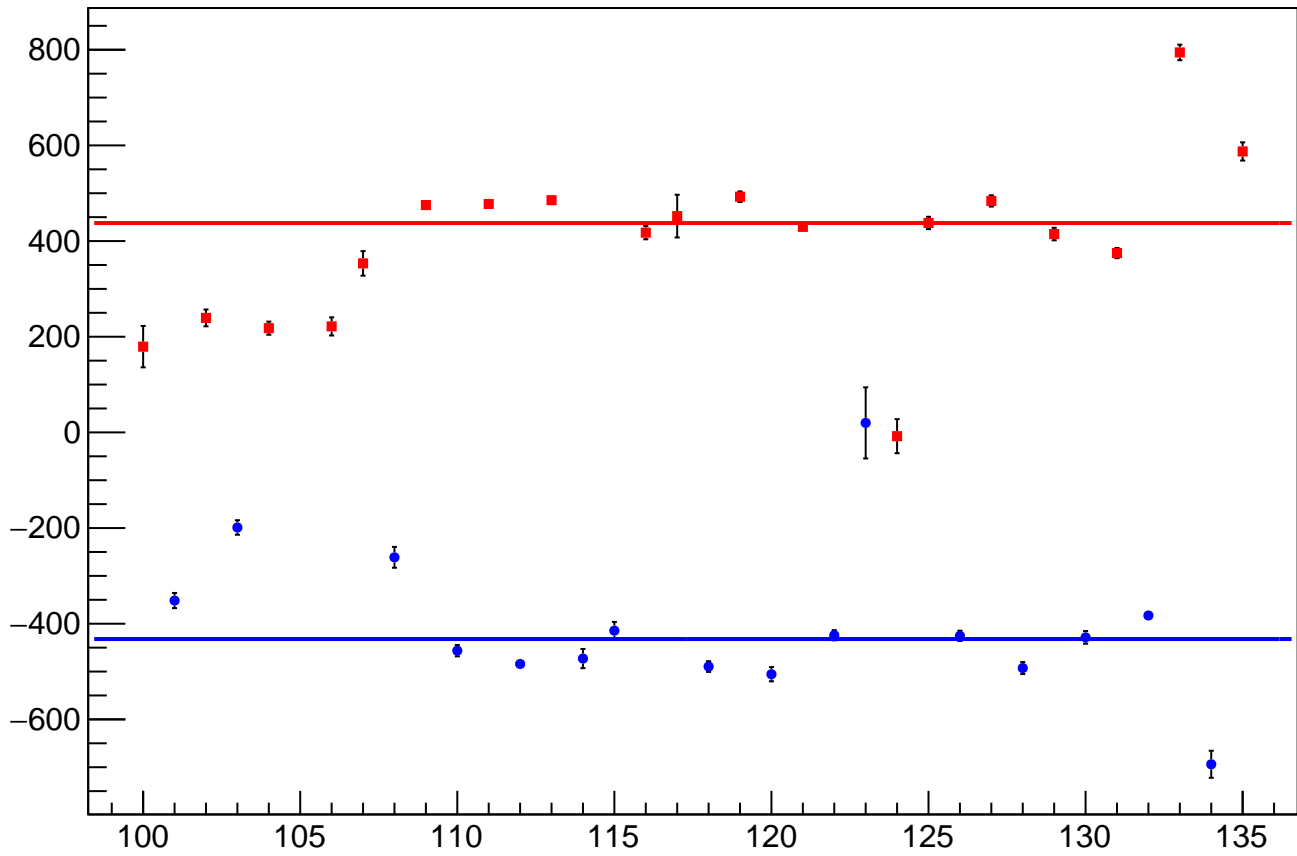
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.577 \pm 0.070$   $\chi^2/\text{NDF}: 530139.6/15$

$6.230 \pm 0.047$   $\chi^2/\text{NDF}: 1100053.4/34$

$11.869 \pm 0.064$   $\chi^2/\text{NDF}: 552704.9/18$

# reg\_asym\_atl2\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: -432.021+/-3.323  $\chi^2$ /NDF: 592.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 437.731+/-3.107  $\chi^2$ /NDF: 1397.6/18

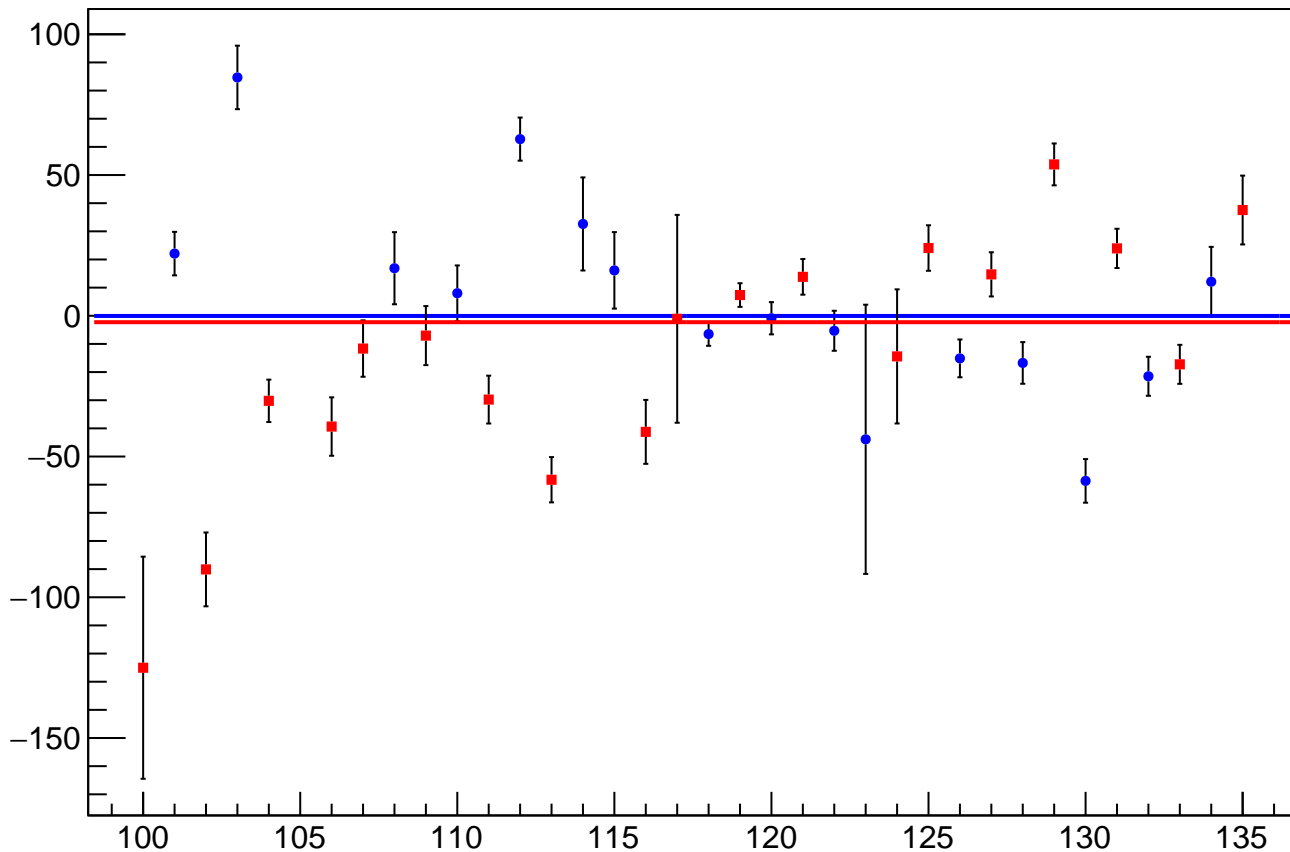
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-432.021+/-3.323  $\chi^2$ /NDF: 592.6/15

32.131+/-2.270  $\chi^2$ /NDF: 38540.4/34

437.731+/-3.107  $\chi^2$ /NDF: 1397.6/18

# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.058 \pm 1.962$   $\chi^2/\text{NDF}: 221.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-2.277 \pm 1.920$   $\chi^2/\text{NDF}: 266.4/18$

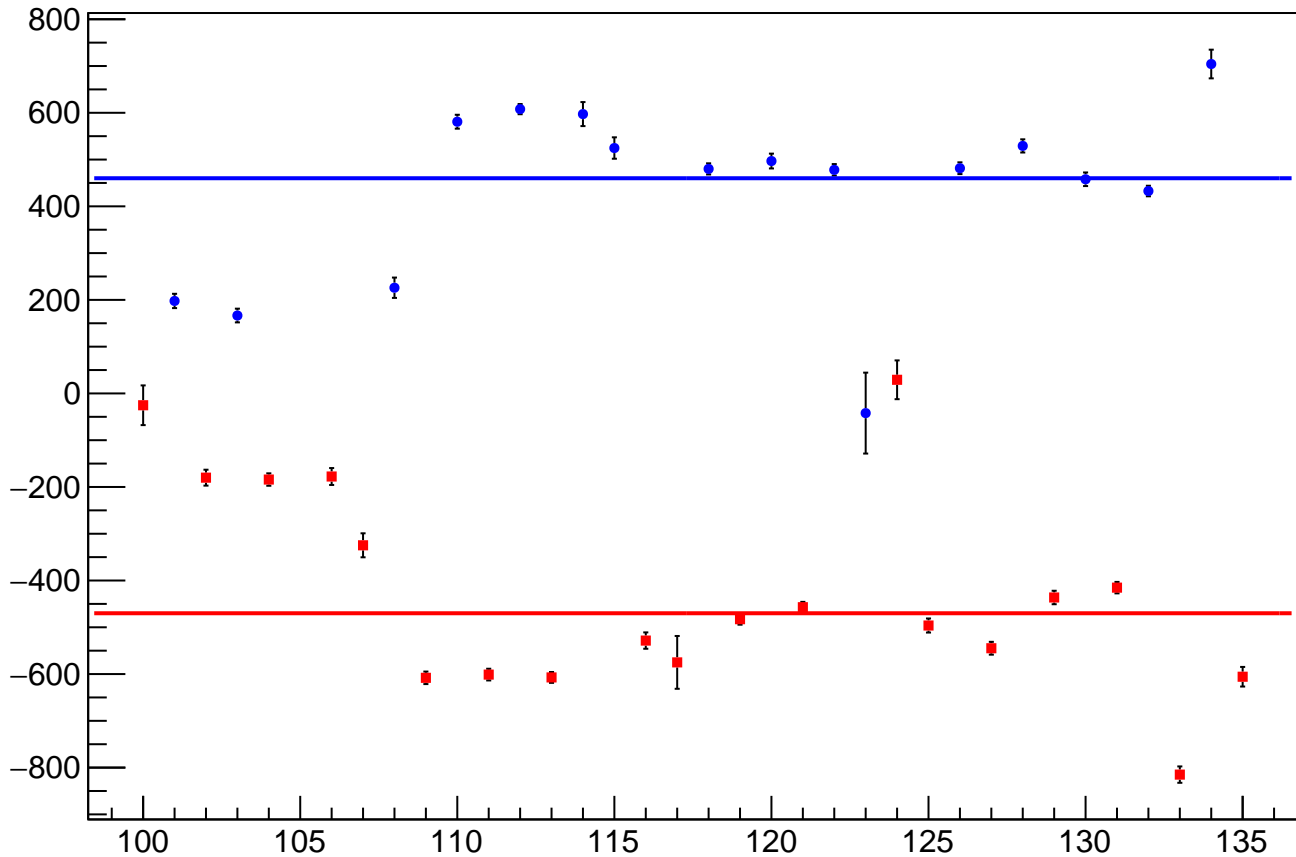
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.058 \pm 1.962$   $\chi^2/\text{NDF}: 221.4/15$

$-1.192 \pm 1.372$   $\chi^2/\text{NDF}: 488.4/34$

$-2.277 \pm 1.920$   $\chi^2/\text{NDF}: 266.4/18$

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 460.078+/-3.776  $\chi^2$ /NDF: 1237.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -469.987+/-3.545  $\chi^2$ /NDF: 2164.0/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

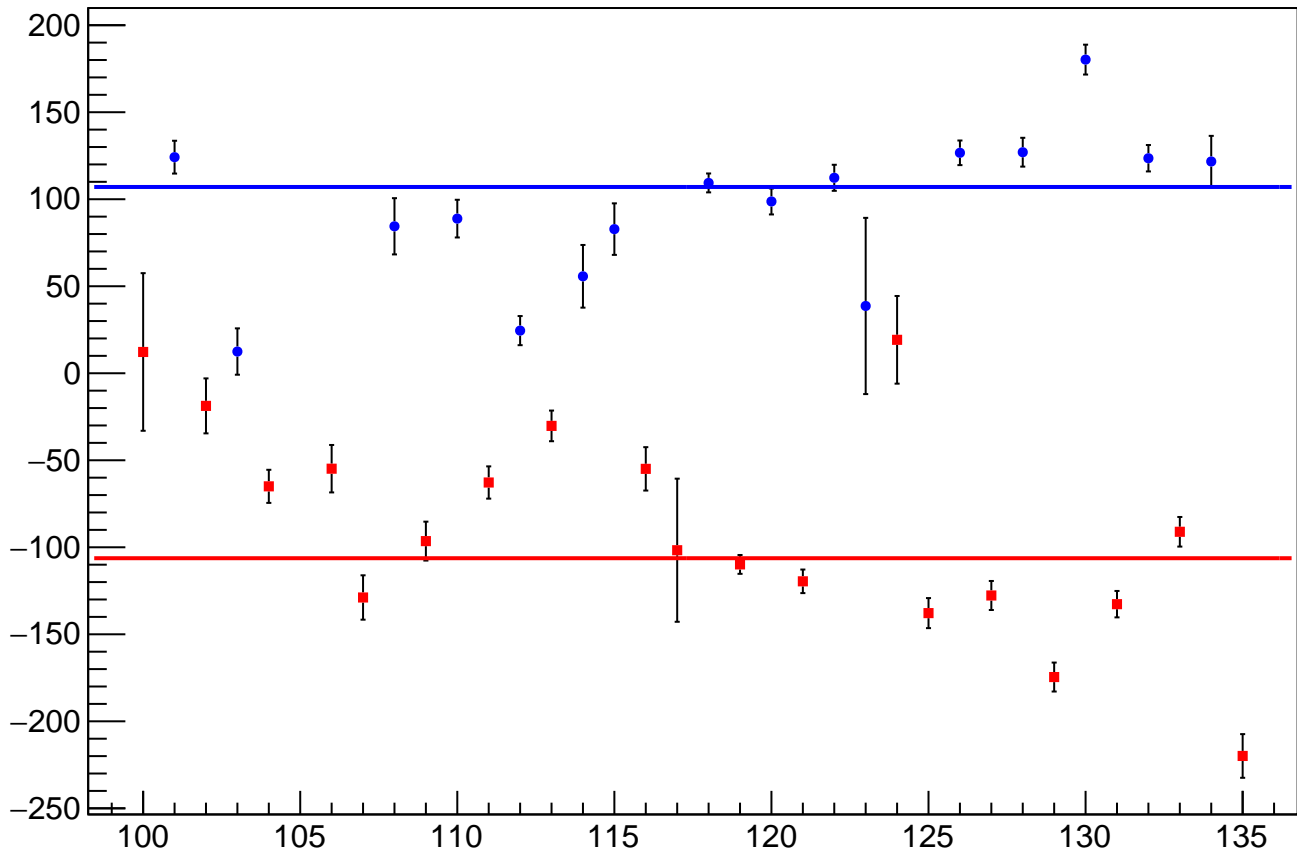
460.078+/-3.776  $\chi^2$ /NDF: 1237.2/15

-34.295+/-2.585  $\chi^2$ /NDF: 35641.2/34

-469.987+/-3.545  $\chi^2$ /NDF: 2164.0/18



# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 107.042 $\pm$ 2.286  $\chi^2$ /NDF: 262.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -106.283 $\pm$ 2.214  $\chi^2$ /NDF: 401.8/18

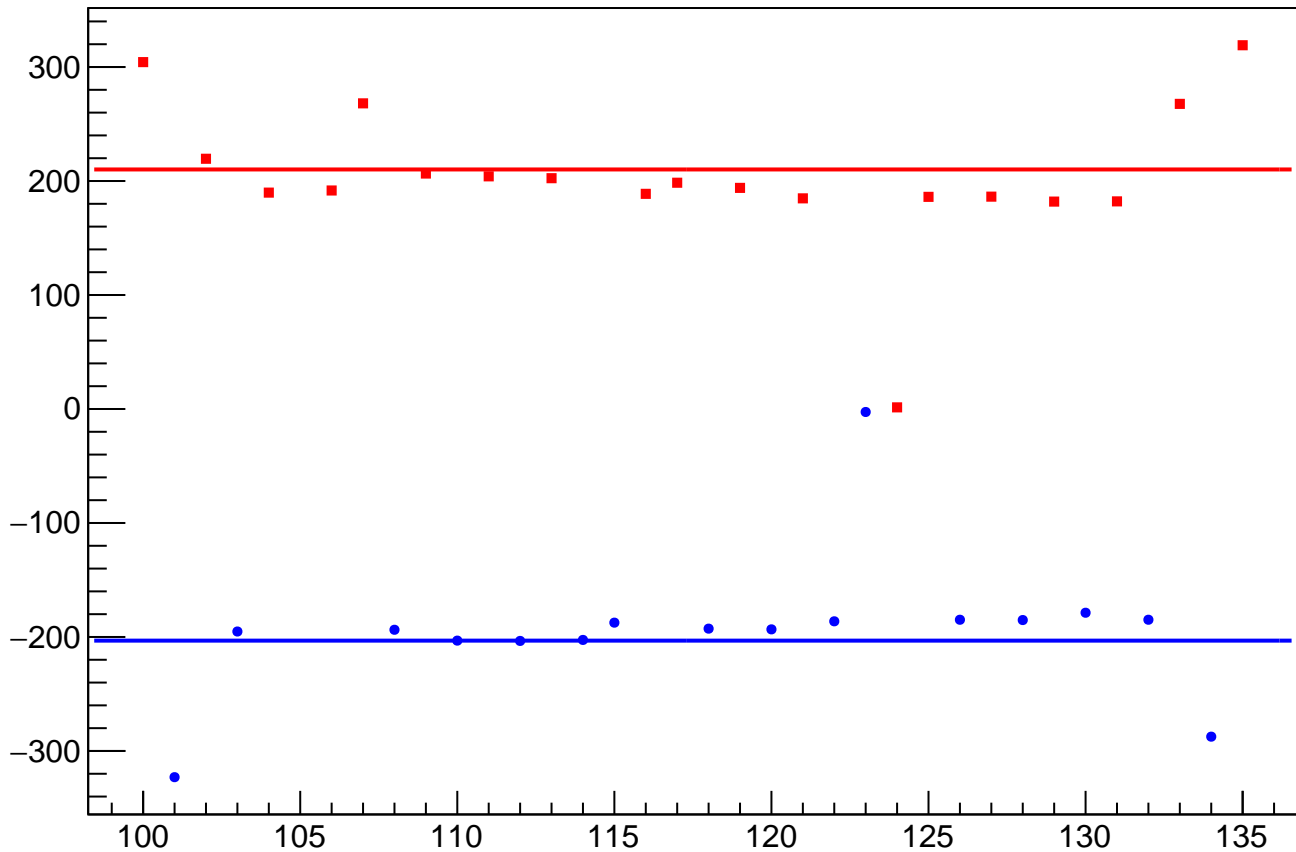
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

107.042 $\pm$ 2.286  $\chi^2$ /NDF: 262.3/15

-3.018 $\pm$ 1.591  $\chi^2$ /NDF: 5156.8/34

-106.283 $\pm$ 2.214  $\chi^2$ /NDF: 401.8/18

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-203.207 \pm 0.145$   $\chi^2/\text{NDF}: 67168.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $210.134 \pm 0.131$   $\chi^2/\text{NDF}: 98942.4/18$

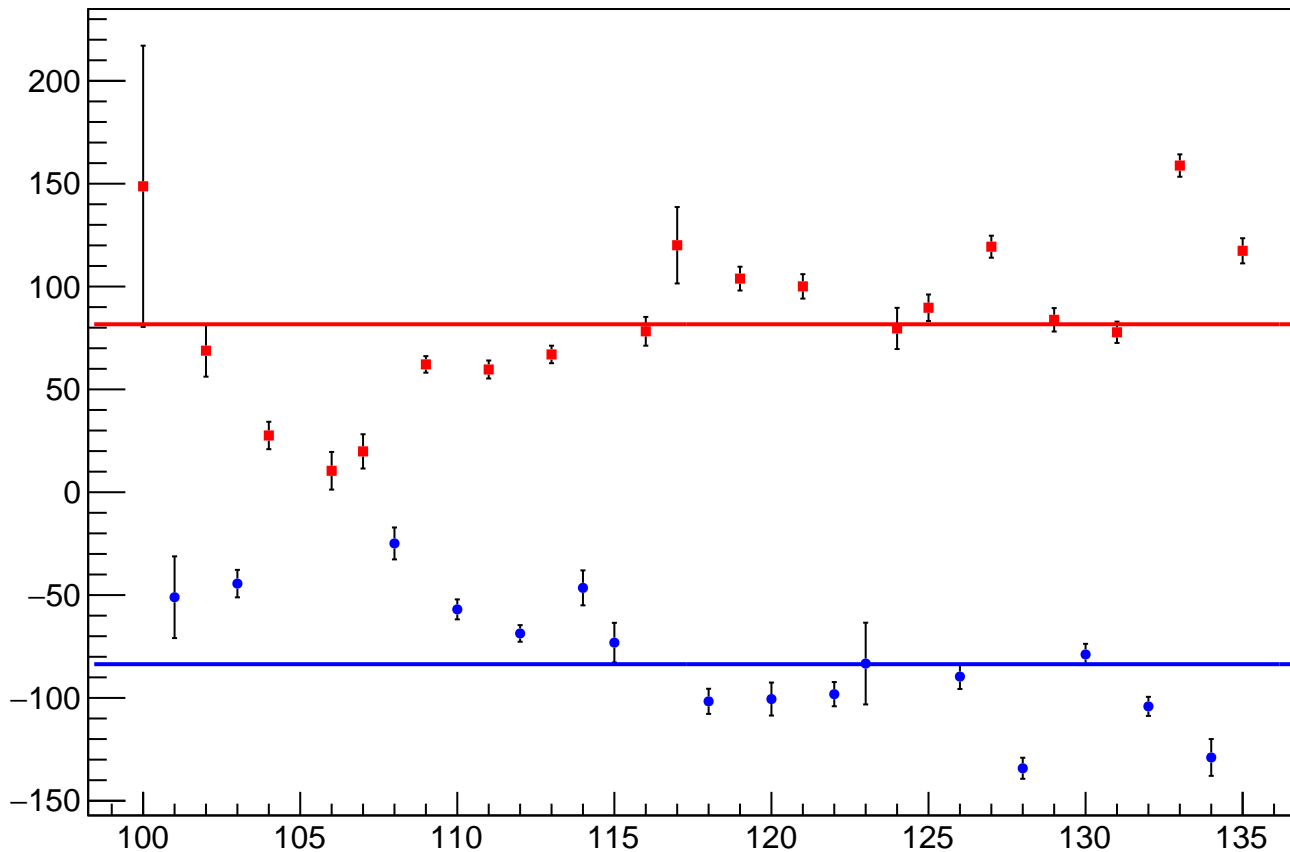
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-203.207 \pm 0.145$   $\chi^2/\text{NDF}: 67168.7/15$

$23.920 \pm 0.097$   $\chi^2/\text{NDF}: 4617326.3/34$

$210.134 \pm 0.131$   $\chi^2/\text{NDF}: 98942.4/18$

# reg\_asym\_atr1\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-83.597 \pm 1.569$   $\chi^2/\text{NDF}: 322.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $81.660 \pm 1.409$   $\chi^2/\text{NDF}: 559.7/18$

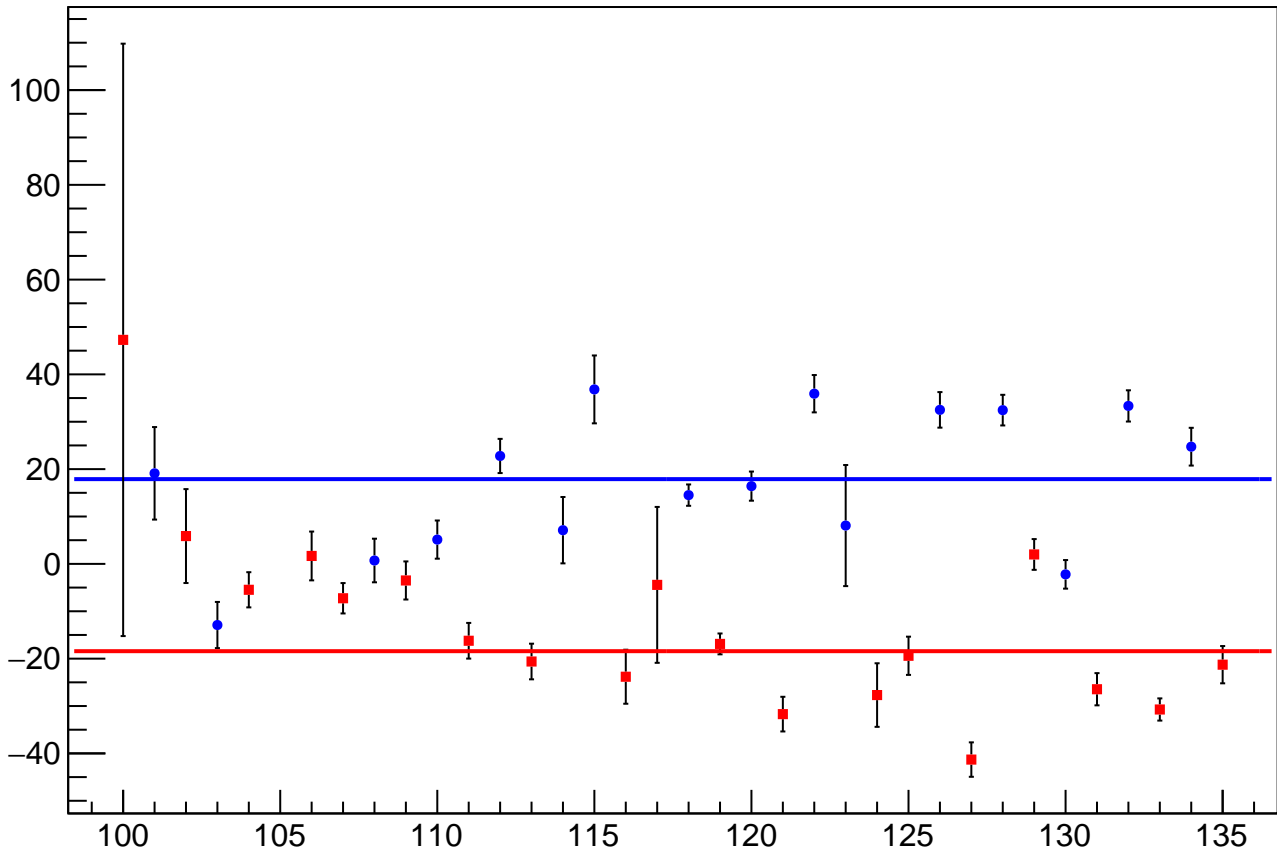
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-83.597 \pm 1.569$   $\chi^2/\text{NDF}: 322.7/15$

$7.915 \pm 1.048$   $\chi^2/\text{NDF}: 7023.7/34$

$81.660 \pm 1.409$   $\chi^2/\text{NDF}: 559.7/18$

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 17.890+/-0.961  $\chi^2$ /NDF: 203.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -18.424+/-0.869  $\chi^2$ /NDF: 191.2/18

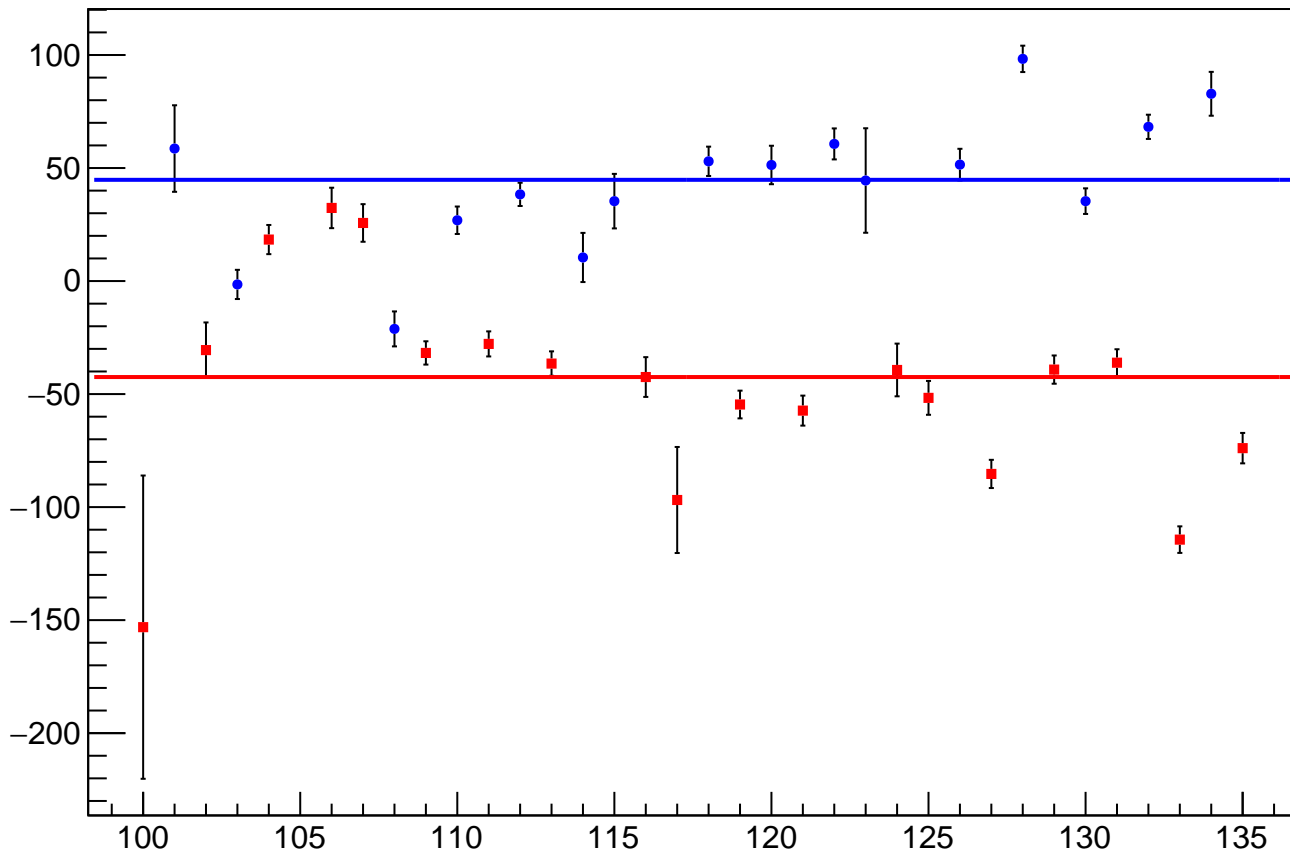
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

17.890+/-0.961  $\chi^2$ /NDF: 203.8/15

-2.089+/-0.645  $\chi^2$ /NDF: 1180.5/34

-18.424+/-0.869  $\chi^2$ /NDF: 191.2/18

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 44.782+/-1.794  $\chi^2$ /NDF: 275.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -42.464+/-1.618  $\chi^2$ /NDF: 478.3/18

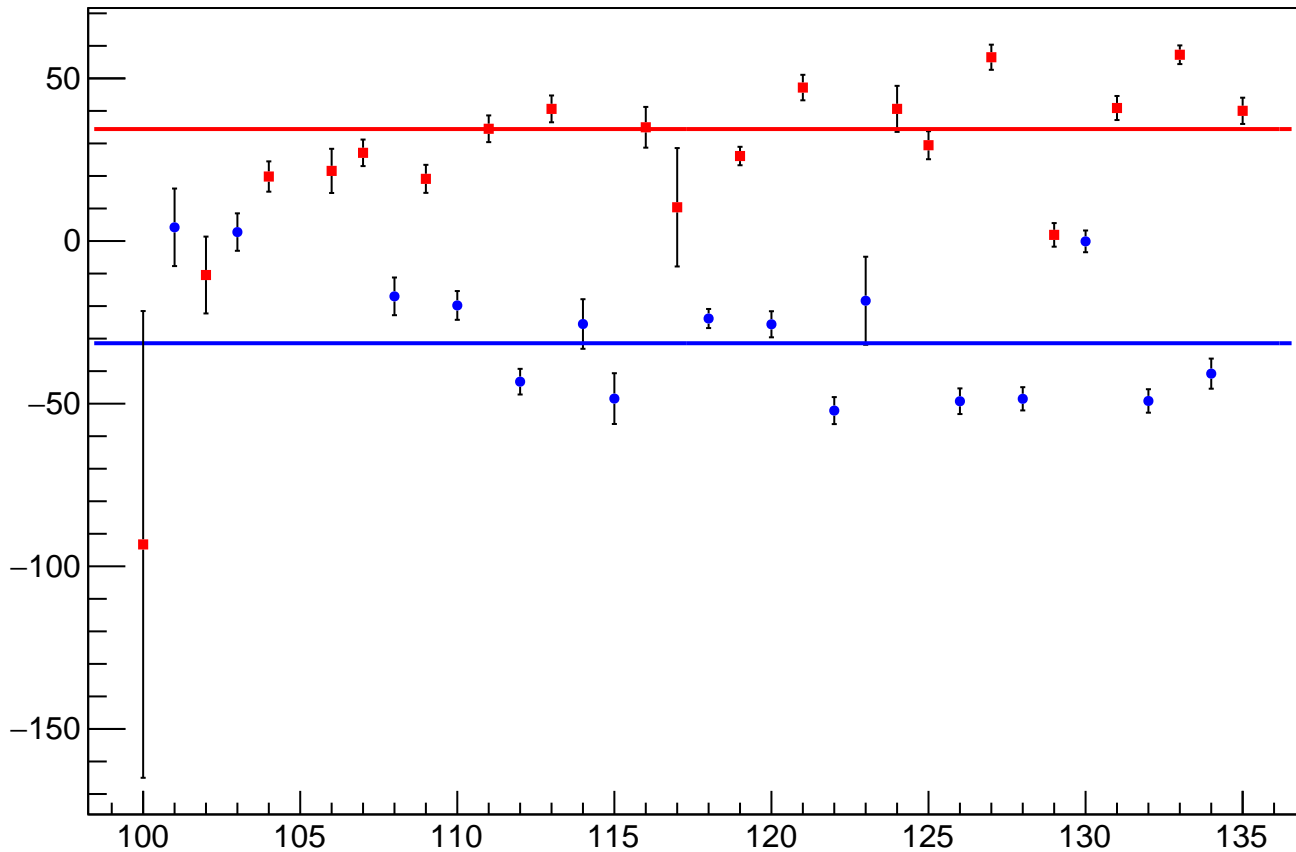
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

44.782+/-1.794  $\chi^2$ /NDF: 275.2/15

-3.331+/-1.202  $\chi^2$ /NDF: 2057.7/34

-42.464+/-1.618  $\chi^2$ /NDF: 478.3/18

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-31.420 \pm 1.109$   $\chi^2/\text{NDF}: 265.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $34.423 \pm 1.001$   $\chi^2/\text{NDF}: 253.4/18$

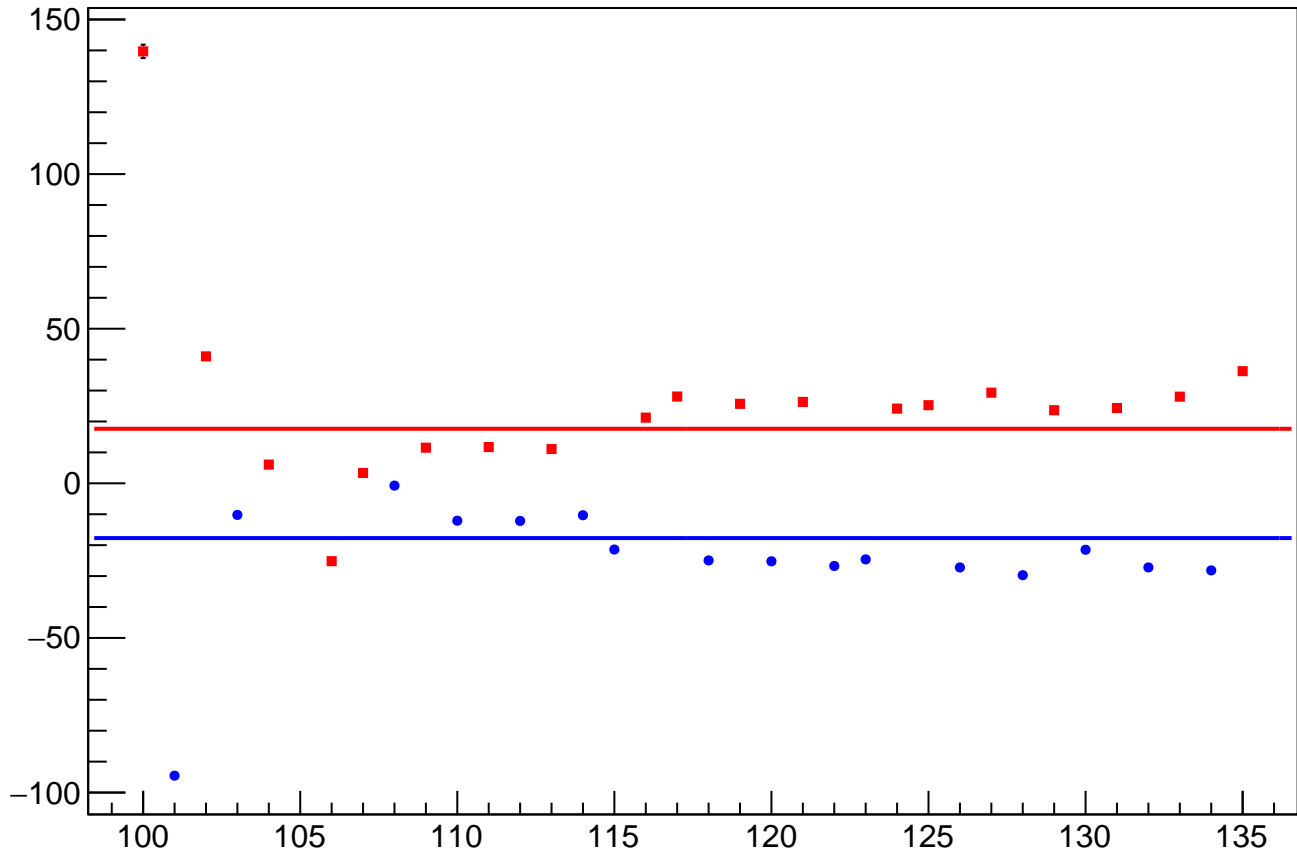
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-31.420 \pm 1.109$   $\chi^2/\text{NDF}: 265.5/15$

$4.862 \pm 0.743$   $\chi^2/\text{NDF}: 2461.3/34$

$34.423 \pm 1.001$   $\chi^2/\text{NDF}: 253.4/18$

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-17.709 \pm 0.067$   $\chi^2/\text{NDF}: 34329.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $17.640 \pm 0.059$   $\chi^2/\text{NDF}: 75556.8/18$

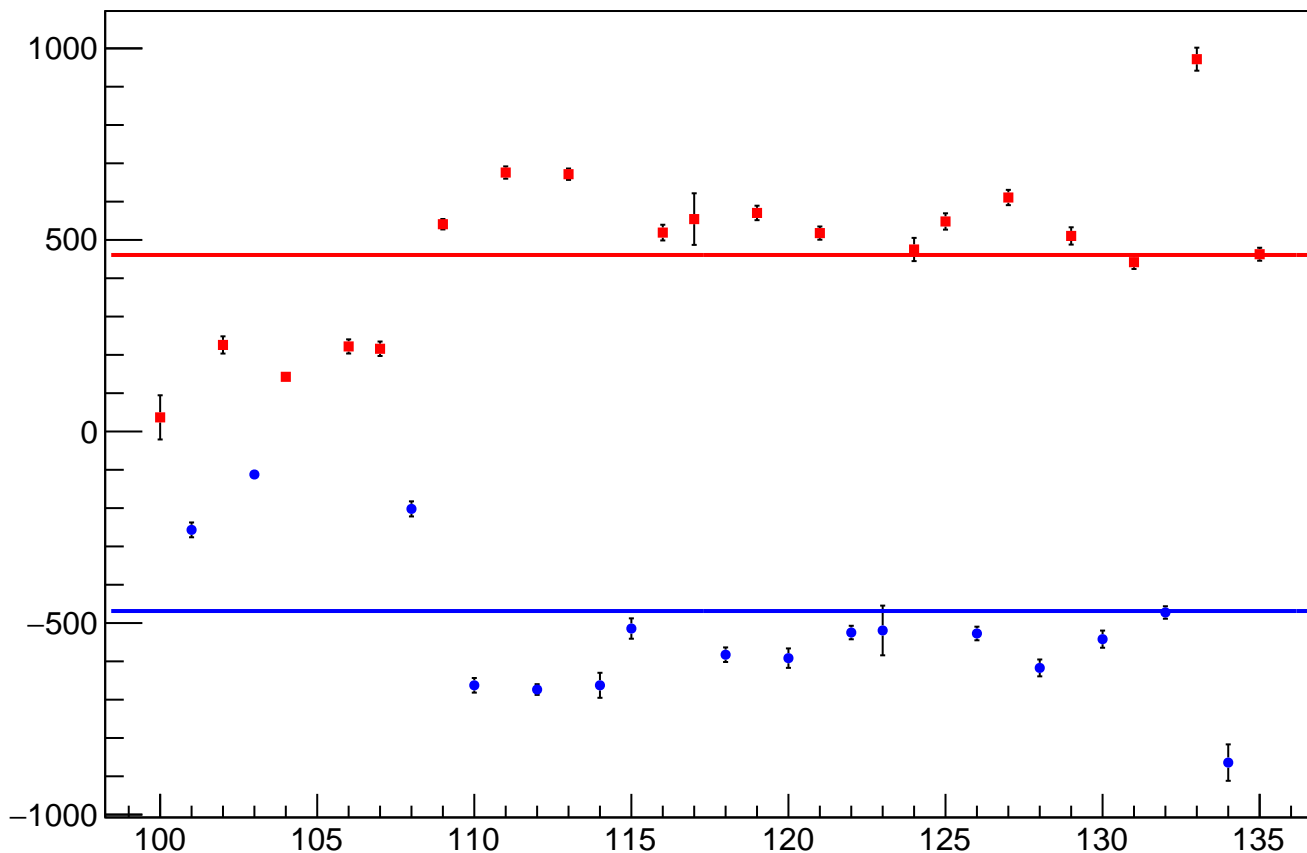
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-17.709 \pm 0.067$   $\chi^2/\text{NDF}: 34329.8/15$

$2.199 \pm 0.044$   $\chi^2/\text{NDF}: 269003.8/34$

$17.640 \pm 0.059$   $\chi^2/\text{NDF}: 75556.8/18$

# reg\_asym\_atr2\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-468.599 \pm 4.965$   $\chi^2/\text{NDF}: 1615.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $460.739 \pm 4.354$   $\chi^2/\text{NDF}: 2007.8/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

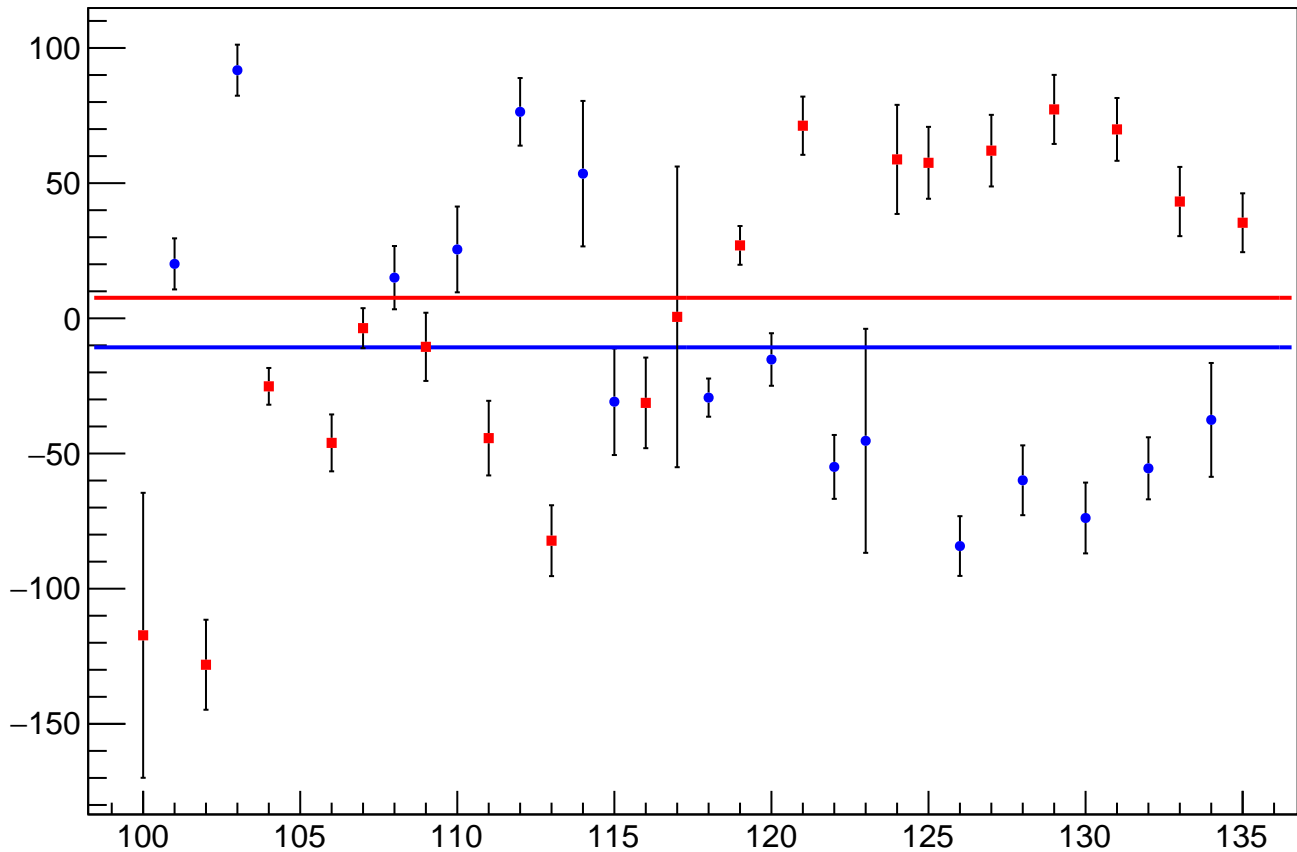
$-468.599 \pm 4.965$   $\chi^2/\text{NDF}: 1615.2/15$

$56.805 \pm 3.274$   $\chi^2/\text{NDF}: 23427.9/34$

$460.739 \pm 4.354$   $\chi^2/\text{NDF}: 2007.8/18$



# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-10.729 \pm 2.984$   $\chi^2/\text{NDF}: 314.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $7.598 \pm 2.633$   $\chi^2/\text{NDF}: 344.6/18$

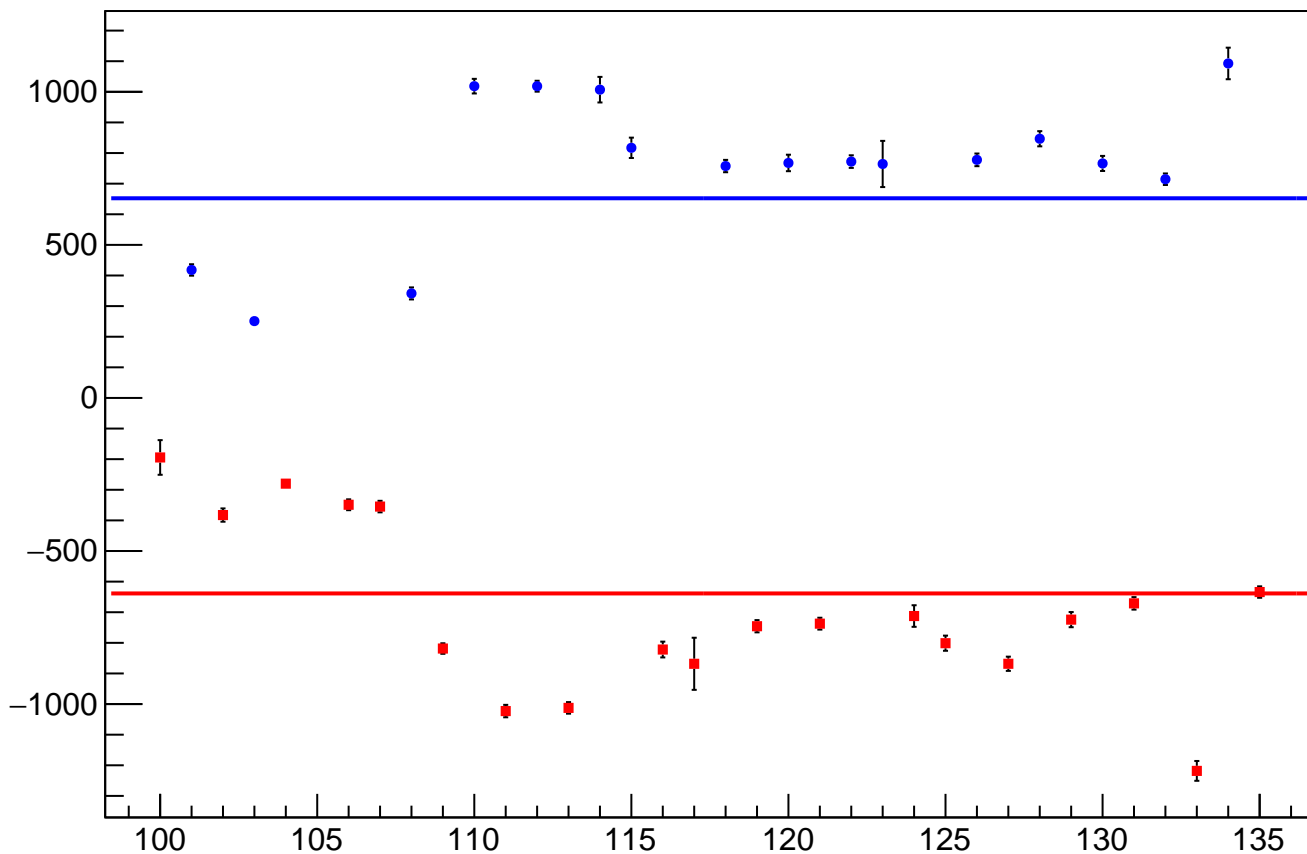
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-10.729 \pm 2.984$   $\chi^2/\text{NDF}: 314.6/15$

$-0.426 \pm 1.975$   $\chi^2/\text{NDF}: 680.4/34$

$7.598 \pm 2.633$   $\chi^2/\text{NDF}: 344.6/18$

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 652.258+/-5.476  $\chi^2$ /NDF: 2463.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -638.623+/-4.821  $\chi^2$ /NDF: 3053.1/18

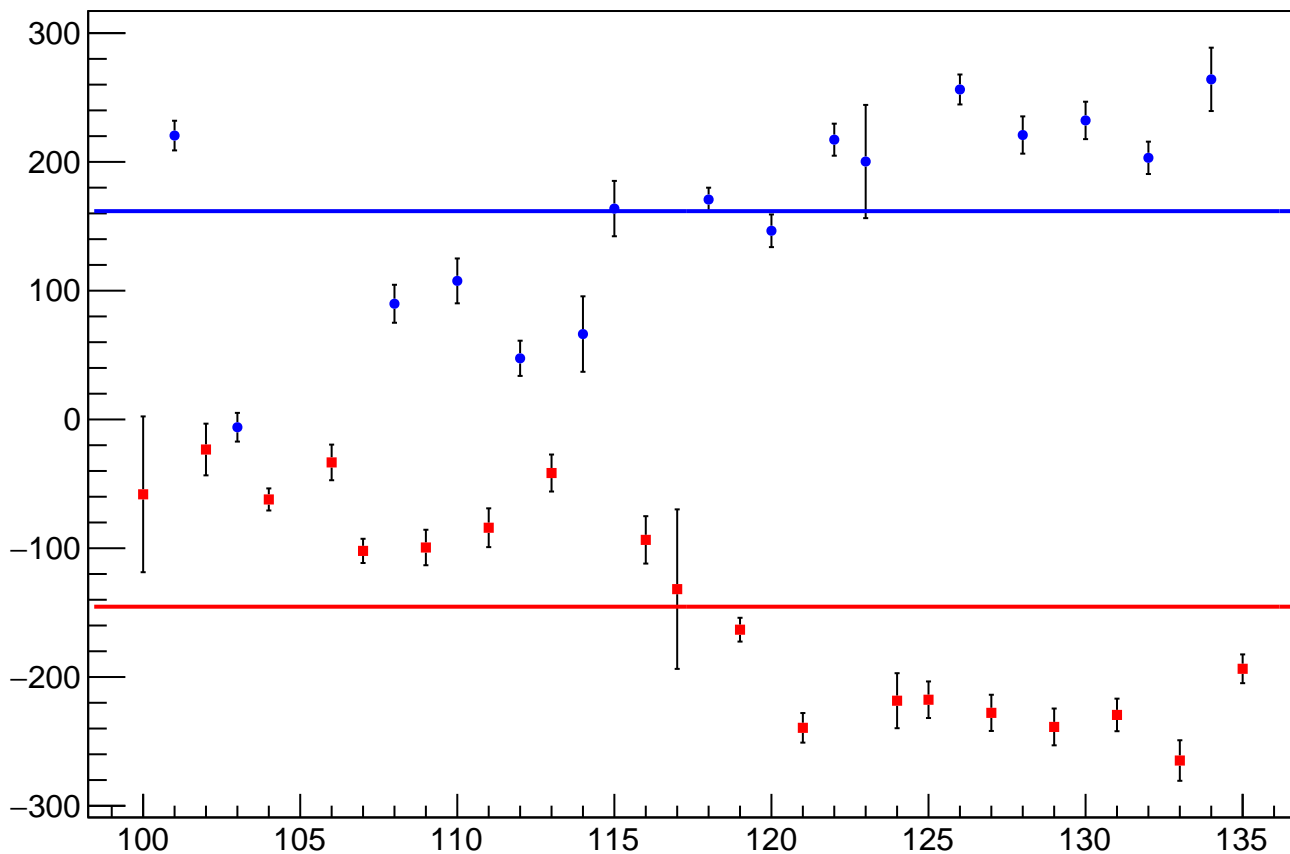
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

652.258+/-5.476  $\chi^2$ /NDF: 2463.9/15

-75.004+/-3.619  $\chi^2$ /NDF: 36821.3/34

-638.623+/-4.821  $\chi^2$ /NDF: 3053.1/18

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 161.764+/-3.491  $\chi^2$ /NDF: 524.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -145.388+/-3.081  $\chi^2$ /NDF: 613.9/18

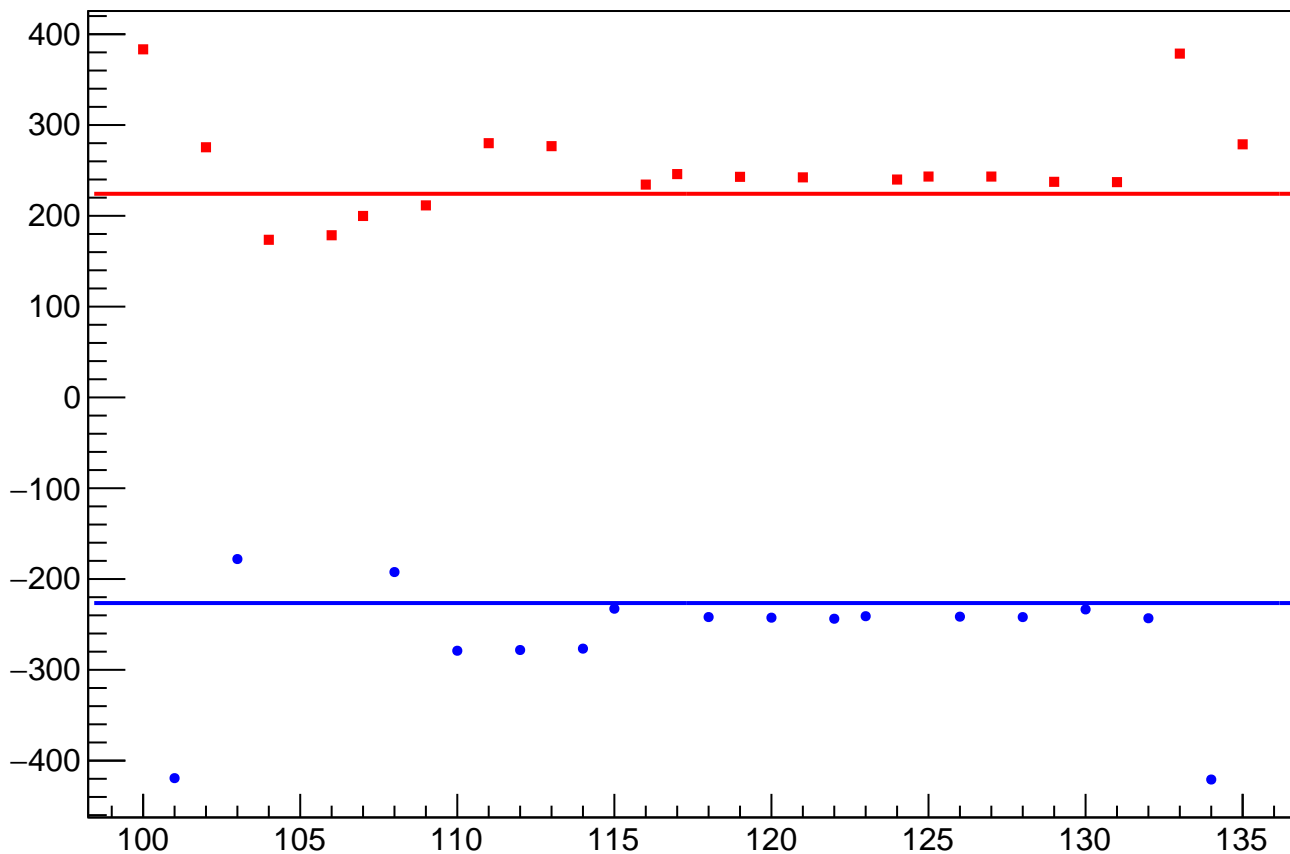
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

161.764+/-3.491  $\chi^2$ /NDF: 524.0/15

-10.903+/-2.310  $\chi^2$ /NDF: 5488.6/34

-145.388+/-3.081  $\chi^2$ /NDF: 613.9/18

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-226.463 \pm 0.179$   $\chi^2/\text{NDF}: 145702.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $224.266 \pm 0.154$   $\chi^2/\text{NDF}: 96547.9/18$

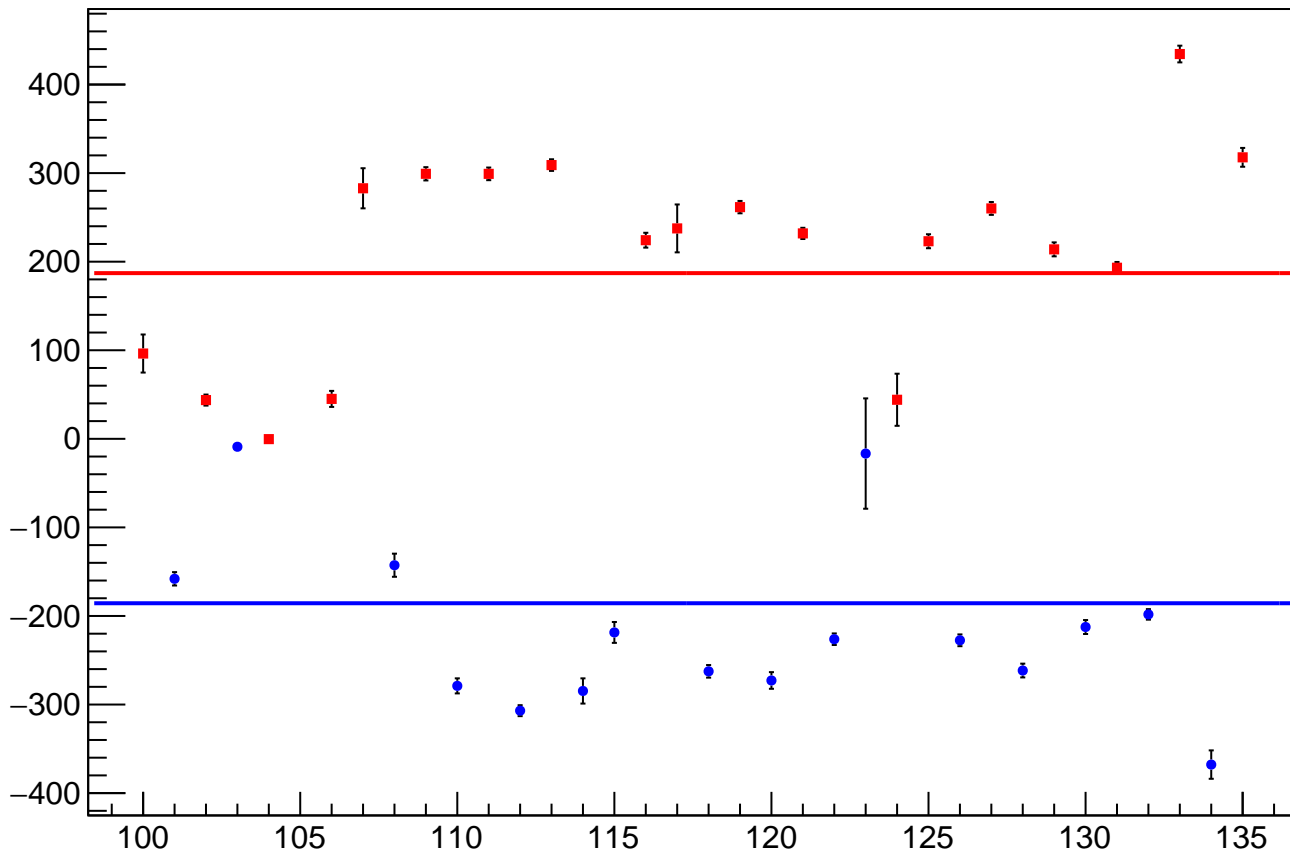
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-226.463 \pm 0.179$   $\chi^2/\text{NDF}: 145702.5/15$

$32.891 \pm 0.117$   $\chi^2/\text{NDF}: 3872942.9/34$

$224.266 \pm 0.154$   $\chi^2/\text{NDF}: 96547.9/18$

# reg\_asym\_atl\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-185.630 \pm 1.880$   $\chi^2/\text{NDF}$ : 3153.9/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $187.080 \pm 1.770$   $\chi^2/\text{NDF}$ : 4900.3/18

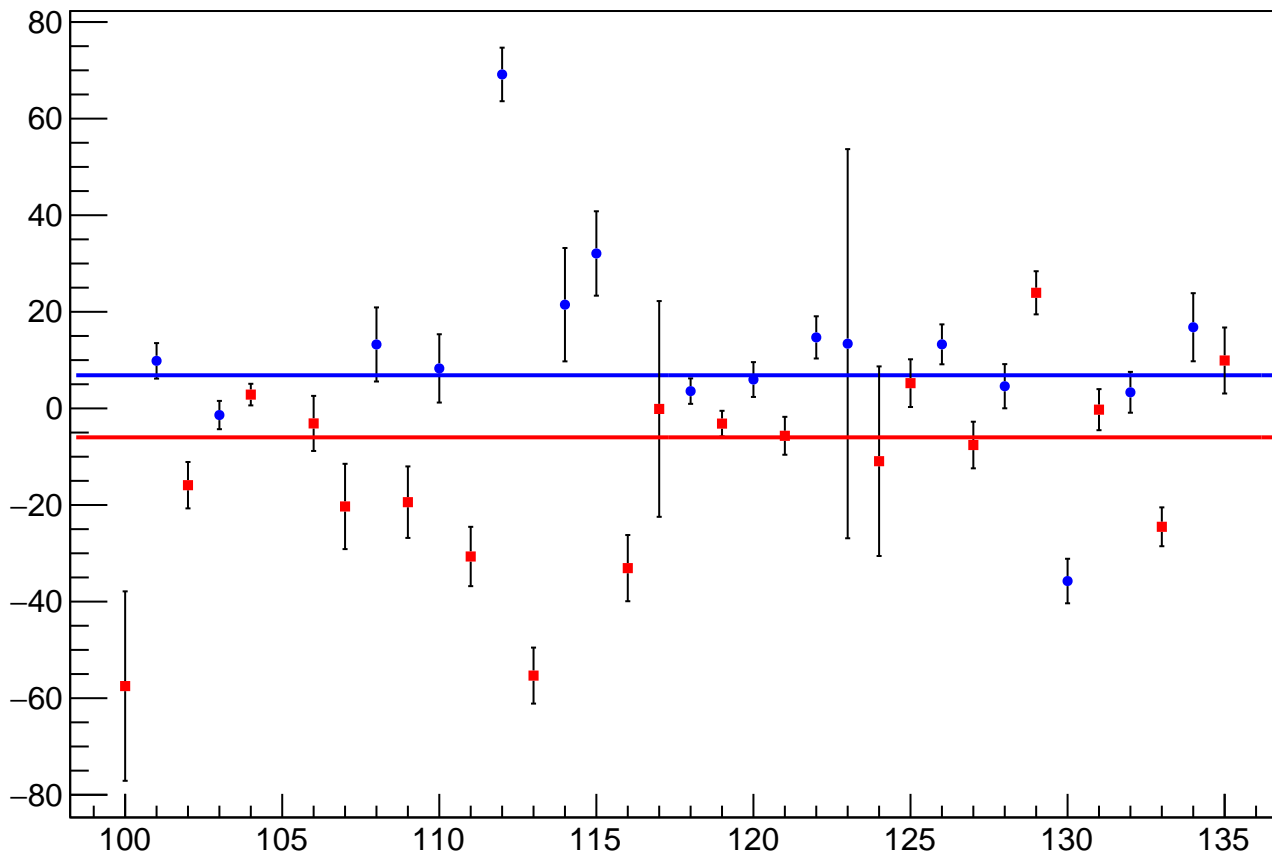
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-185.630 \pm 1.880$   $\chi^2/\text{NDF}$ : 3153.9/15

$11.997 \pm 1.289$   $\chi^2/\text{NDF}$ : 28892.6/34

$187.080 \pm 1.770$   $\chi^2/\text{NDF}$ : 4900.3/18

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 6.863+/-1.130  $\chi^2/\text{NDF}$ : 241.0/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.990+/-1.072  $\chi^2/\text{NDF}$ : 217.0/18

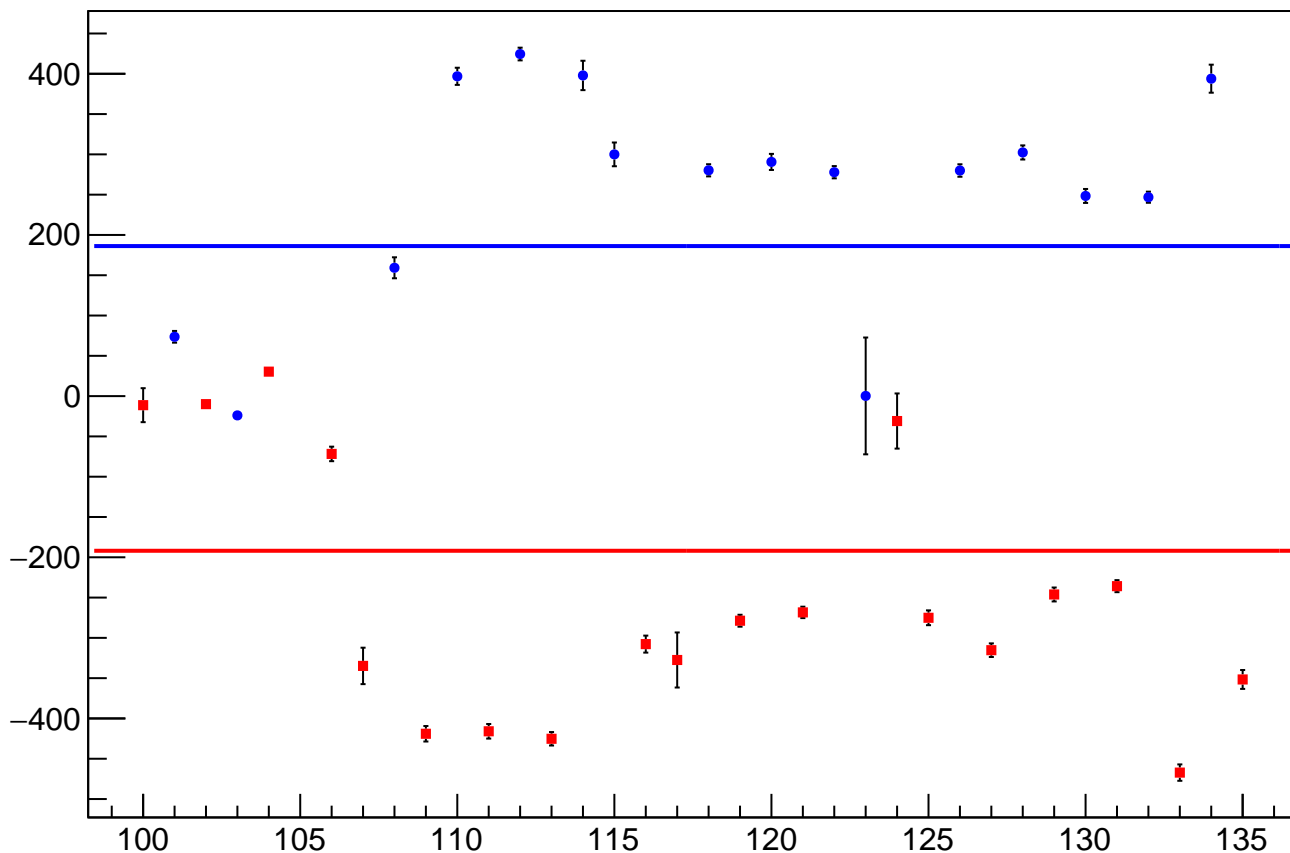
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6.863+/-1.130  $\chi^2/\text{NDF}$ : 241.0/15

0.100+/-0.778  $\chi^2/\text{NDF}$ : 526.1/34

-5.990+/-1.072  $\chi^2/\text{NDF}$ : 217.0/18

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 186.198 $\pm$ 2.042  $\chi^2$ /NDF: 5841.0/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -191.918 $\pm$ 1.932  $\chi^2$ /NDF: 7991.8/18

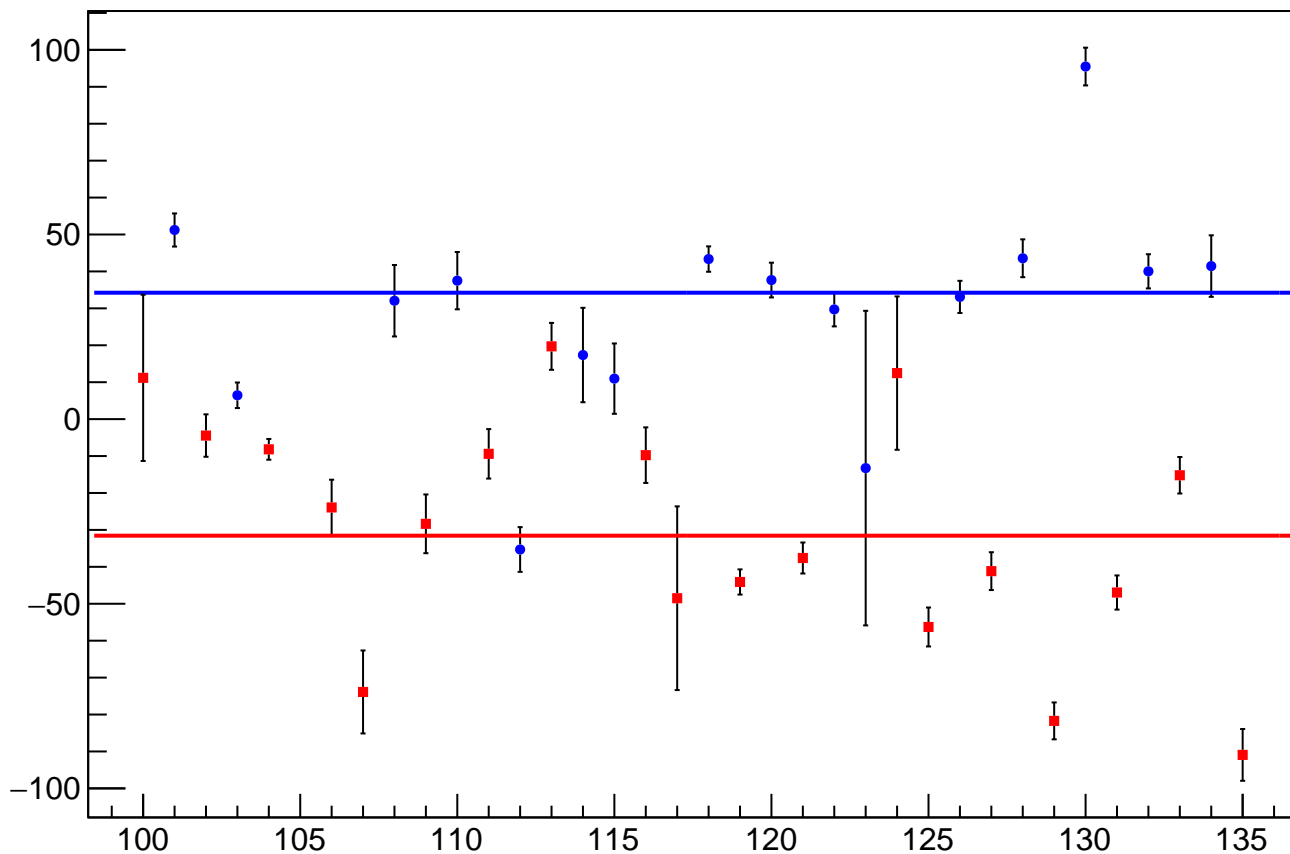
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

186.198 $\pm$ 2.042  $\chi^2$ /NDF: 5841.0/15

-13.368 $\pm$ 1.403  $\chi^2$ /NDF: 31922.9/34

-191.918 $\pm$ 1.932  $\chi^2$ /NDF: 7991.8/18

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 34.235+/-1.321  $\chi^2$ /NDF: 377.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -31.564+/-1.256  $\chi^2$ /NDF: 435.5/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

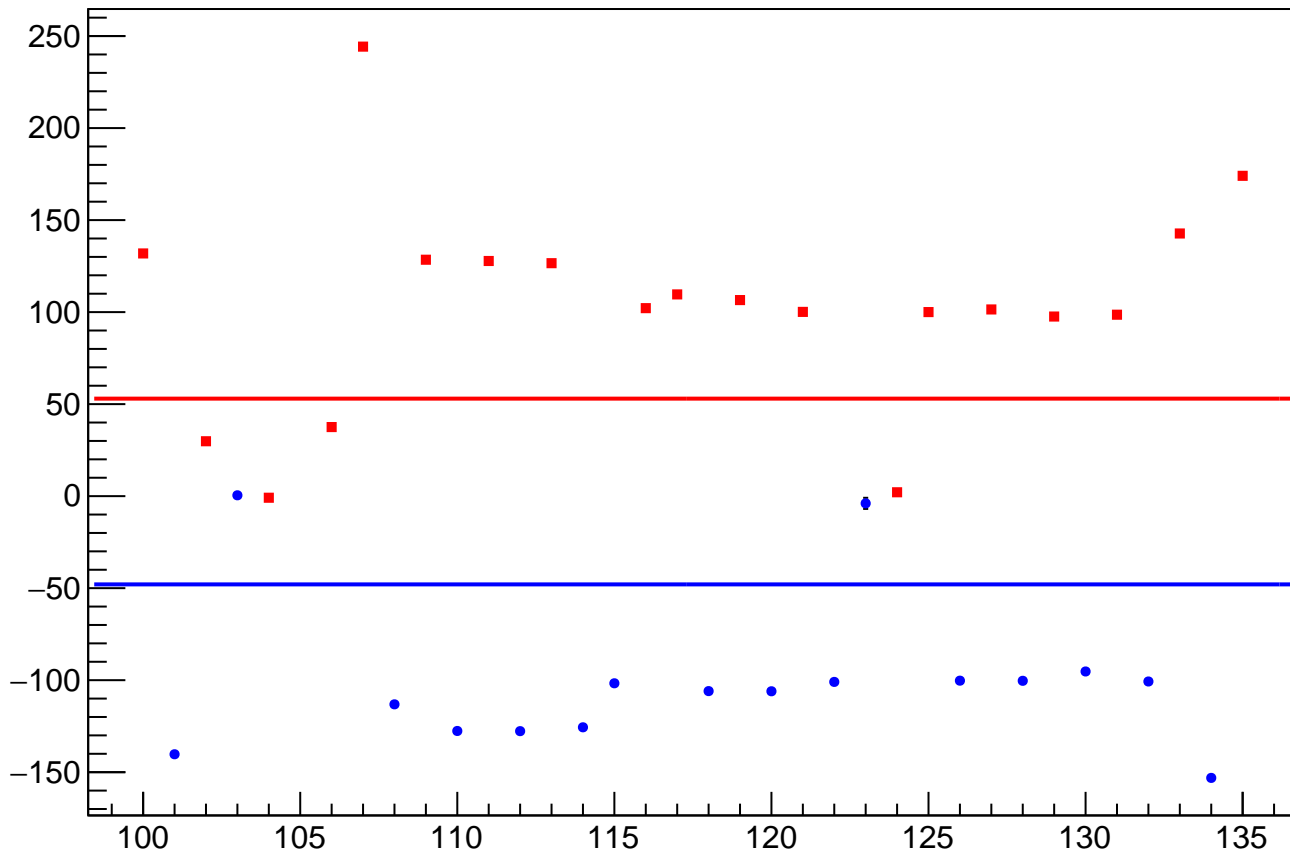
34.235+/-1.321  $\chi^2$ /NDF: 377.6/15

-0.323+/-0.910  $\chi^2$ /NDF: 2115.7/34

-31.564+/-1.256  $\chi^2$ /NDF: 435.5/18



# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-47.949 \pm 0.064$   $\chi^2/\text{NDF}: 795852.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $52.986 \pm 0.061$   $\chi^2/\text{NDF}: 937001.9/18$

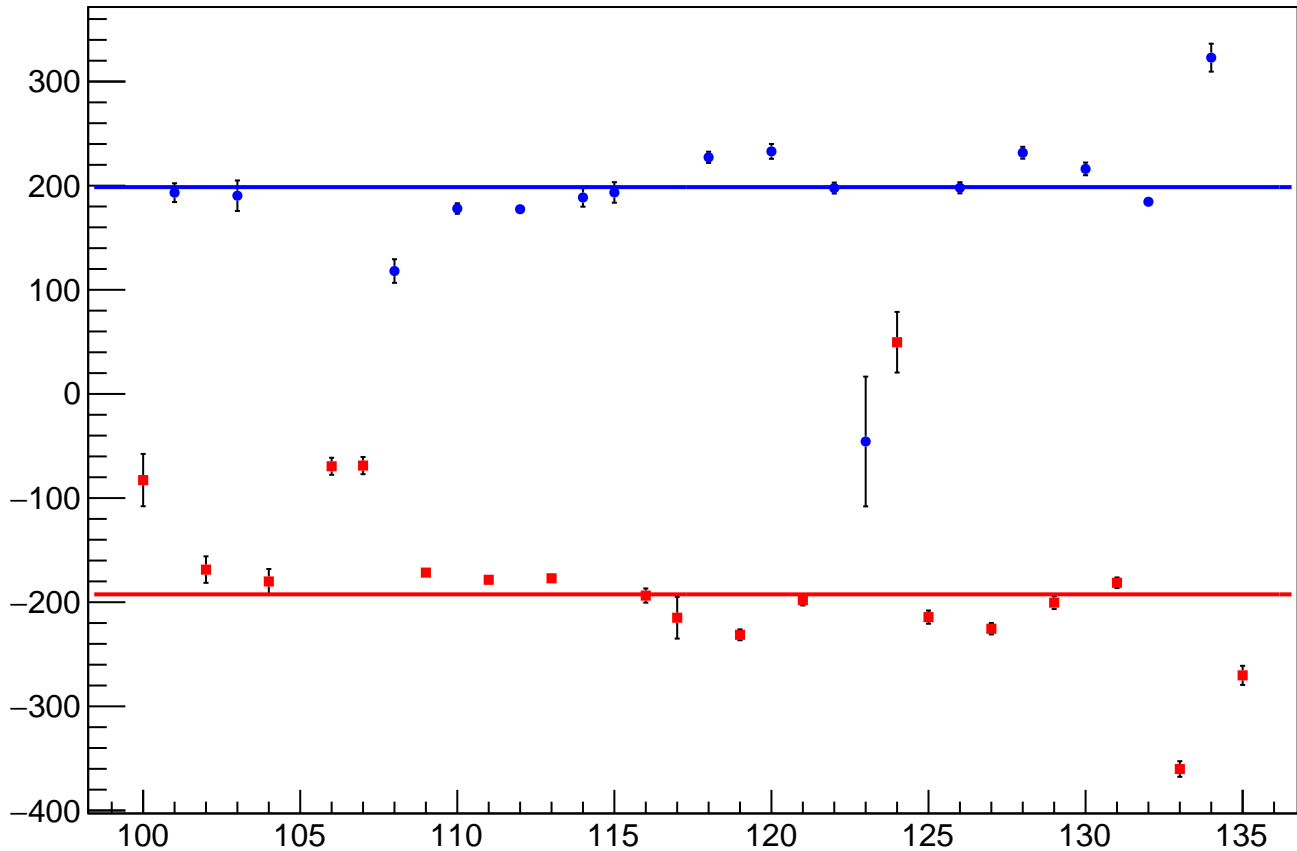
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-47.949 \pm 0.064$   $\chi^2/\text{NDF}: 795852.9/15$

$5.469 \pm 0.044$   $\chi^2/\text{NDF}: 3036228.3/34$

$52.986 \pm 0.061$   $\chi^2/\text{NDF}: 937001.9/18$

# reg\_asym\_atl\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 198.616+/-1.610  $\chi^2$ /NDF: 301.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -192.454+/-1.474  $\chi^2$ /NDF: 1276.5/18

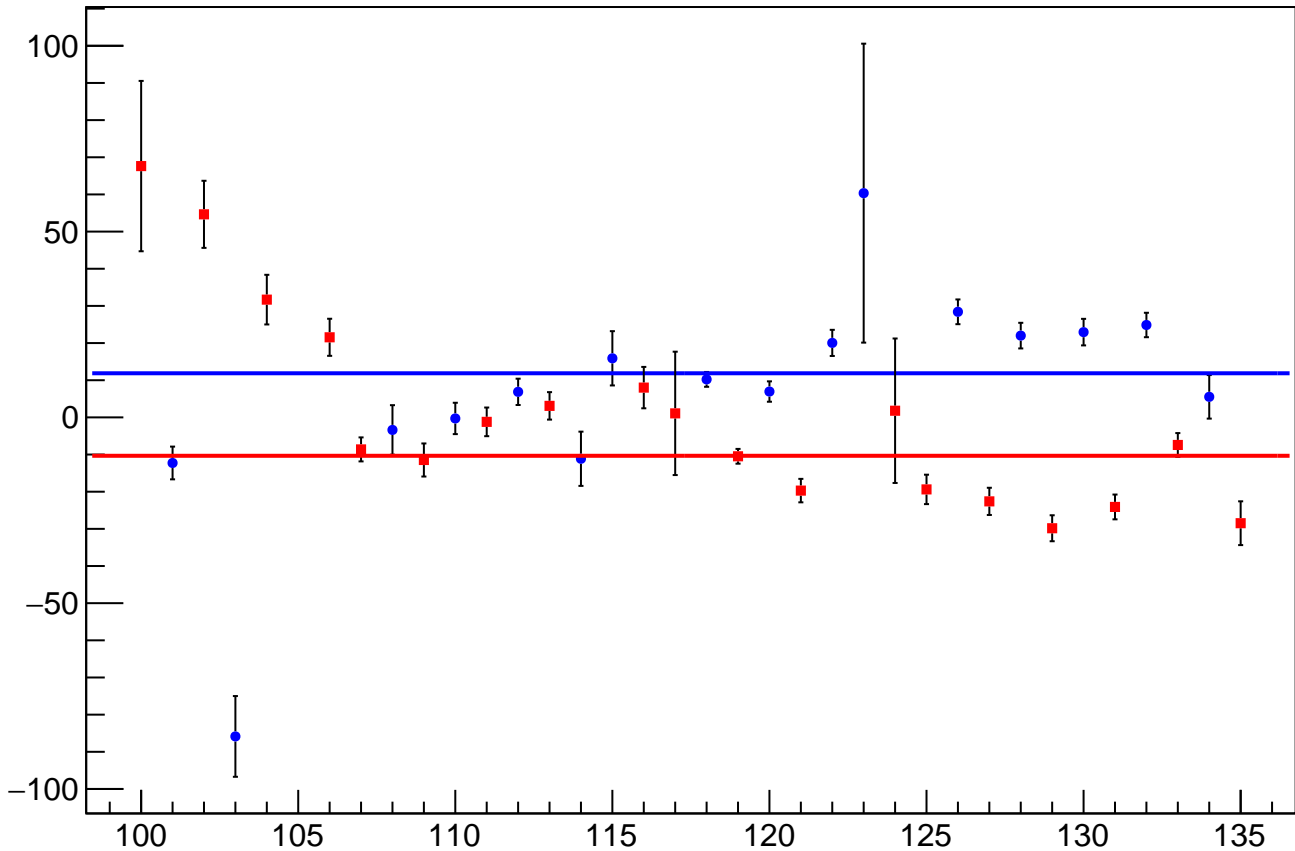
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

198.616+/-1.610  $\chi^2$ /NDF: 301.3/15

-14.077+/-1.087  $\chi^2$ /NDF: 33674.5/34

-192.454+/-1.474  $\chi^2$ /NDF: 1276.5/18

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 11.871+/-0.956  $\chi^2$ /NDF: 207.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -10.334+/-0.916  $\chi^2$ /NDF: 258.4/18

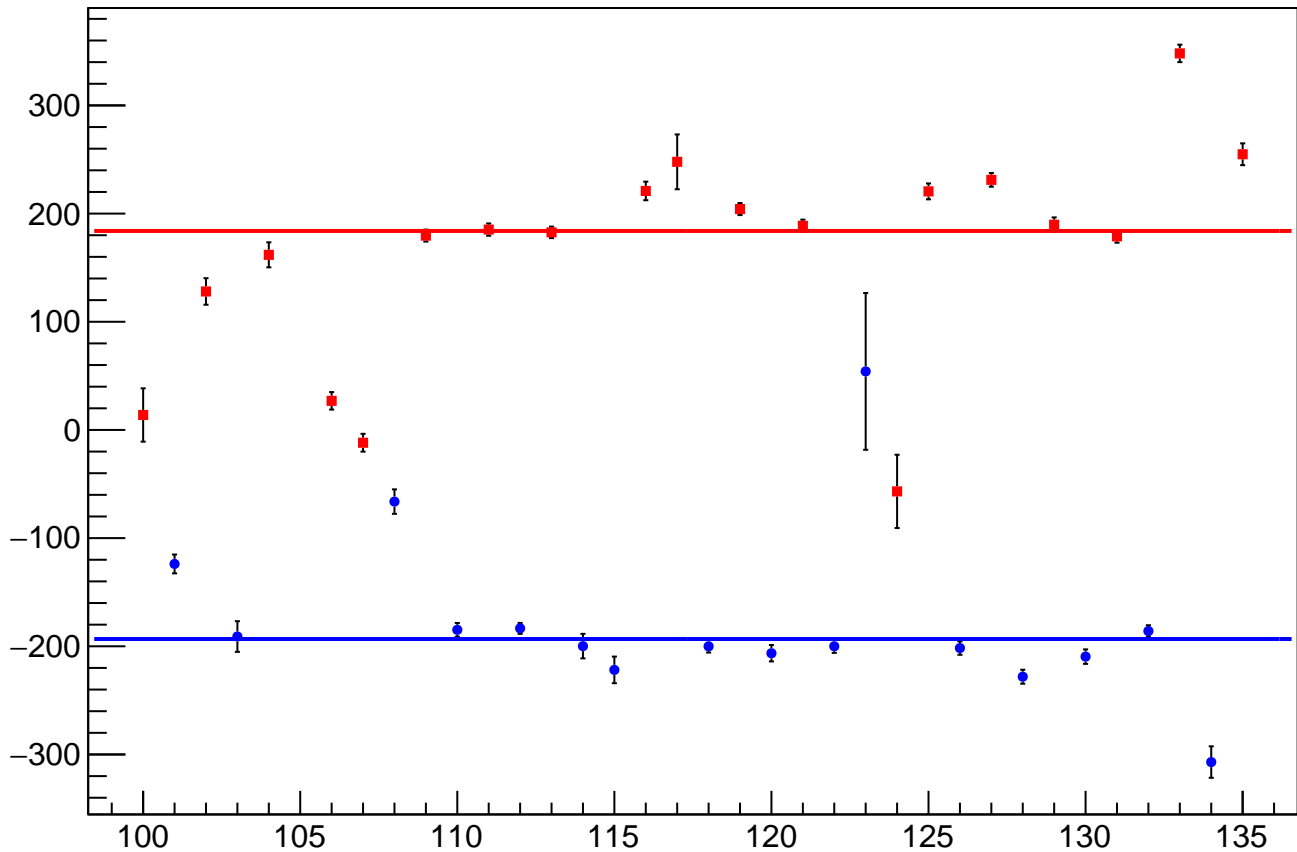
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

11.871+/-0.956  $\chi^2$ /NDF: 207.2/15

0.297+/-0.661  $\chi^2$ /NDF: 747.0/34

-10.334+/-0.916  $\chi^2$ /NDF: 258.4/18

# reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-193.242 \pm 1.853$   $\chi^2/\text{NDF}$ : 318.1/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $183.955 \pm 1.706$   $\chi^2/\text{NDF}$ : 1647.4/18

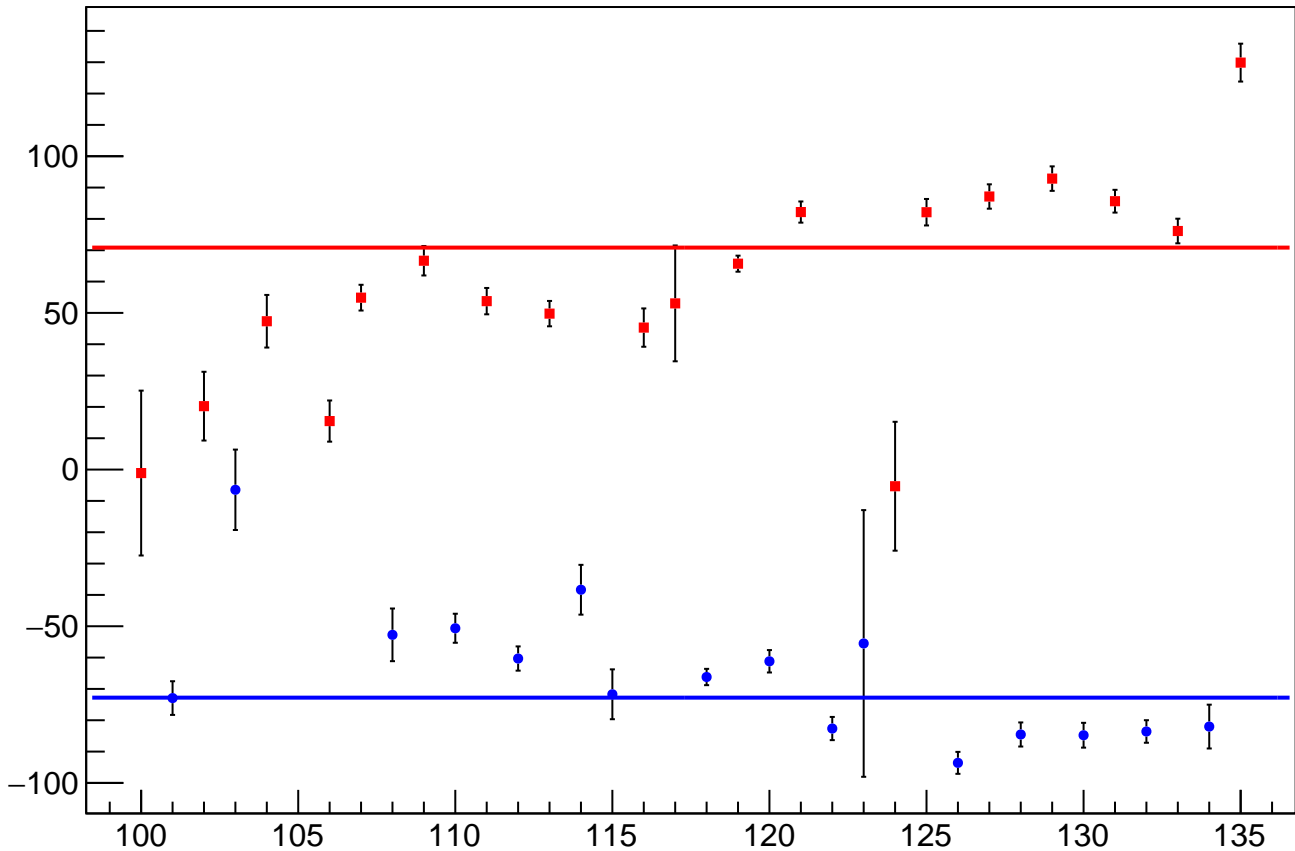
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-193.242 \pm 1.853$   $\chi^2/\text{NDF}$ : 318.1/15

$10.947 \pm 1.255$   $\chi^2/\text{NDF}$ : 24392.7/34

$183.955 \pm 1.706$   $\chi^2/\text{NDF}$ : 1647.4/18

# reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-72.786 \pm 1.111$   $\chi^2/\text{NDF}: 173.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $70.839 \pm 1.056$   $\chi^2/\text{NDF}: 384.7/18$

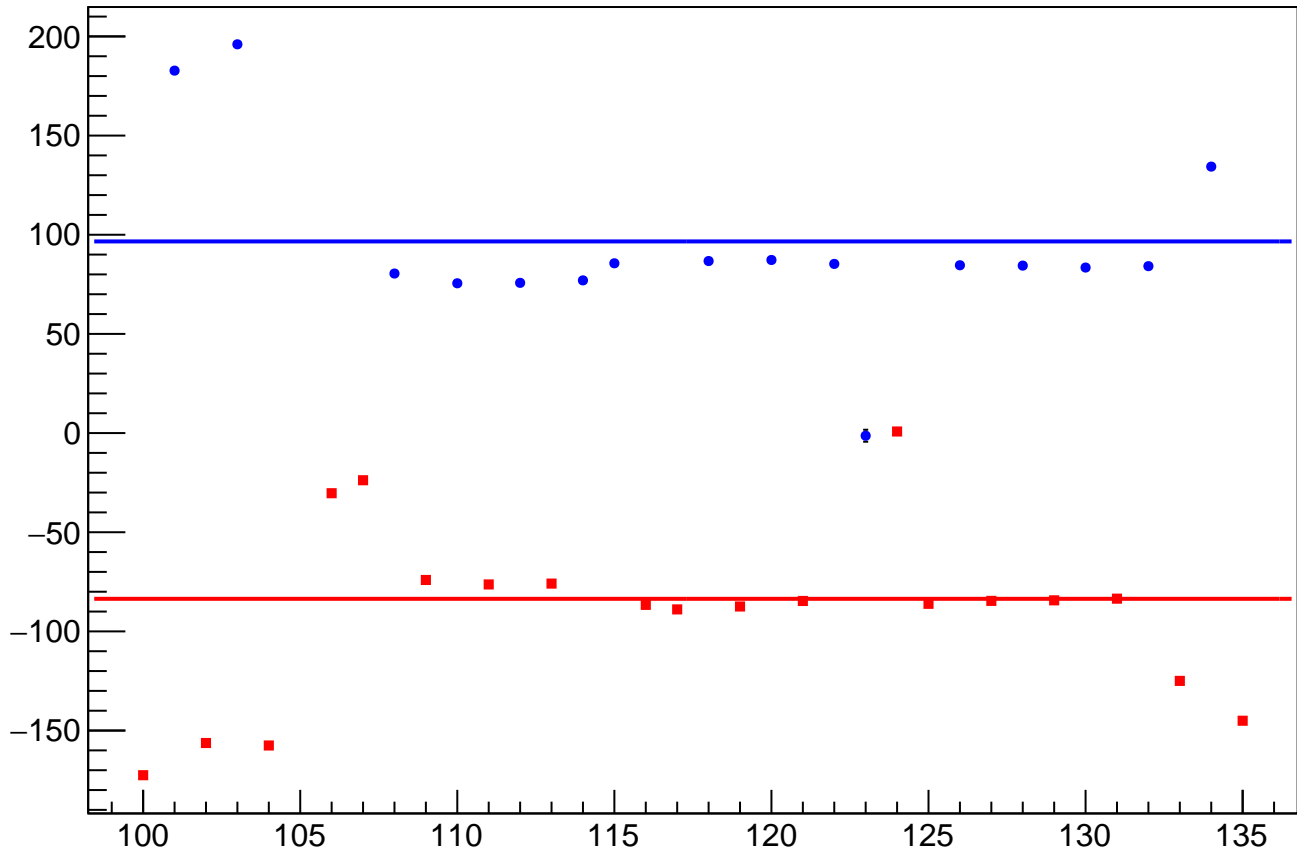
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-72.786 \pm 1.111$   $\chi^2/\text{NDF}: 173.3/15$

$2.689 \pm 0.765$   $\chi^2/\text{NDF}: 9337.5/34$

$70.839 \pm 1.056$   $\chi^2/\text{NDF}: 384.7/18$

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 96.632+/-0.076  $\chi^2$ /NDF: 212954.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.574+/-0.064  $\chi^2$ /NDF: 399952.9/18

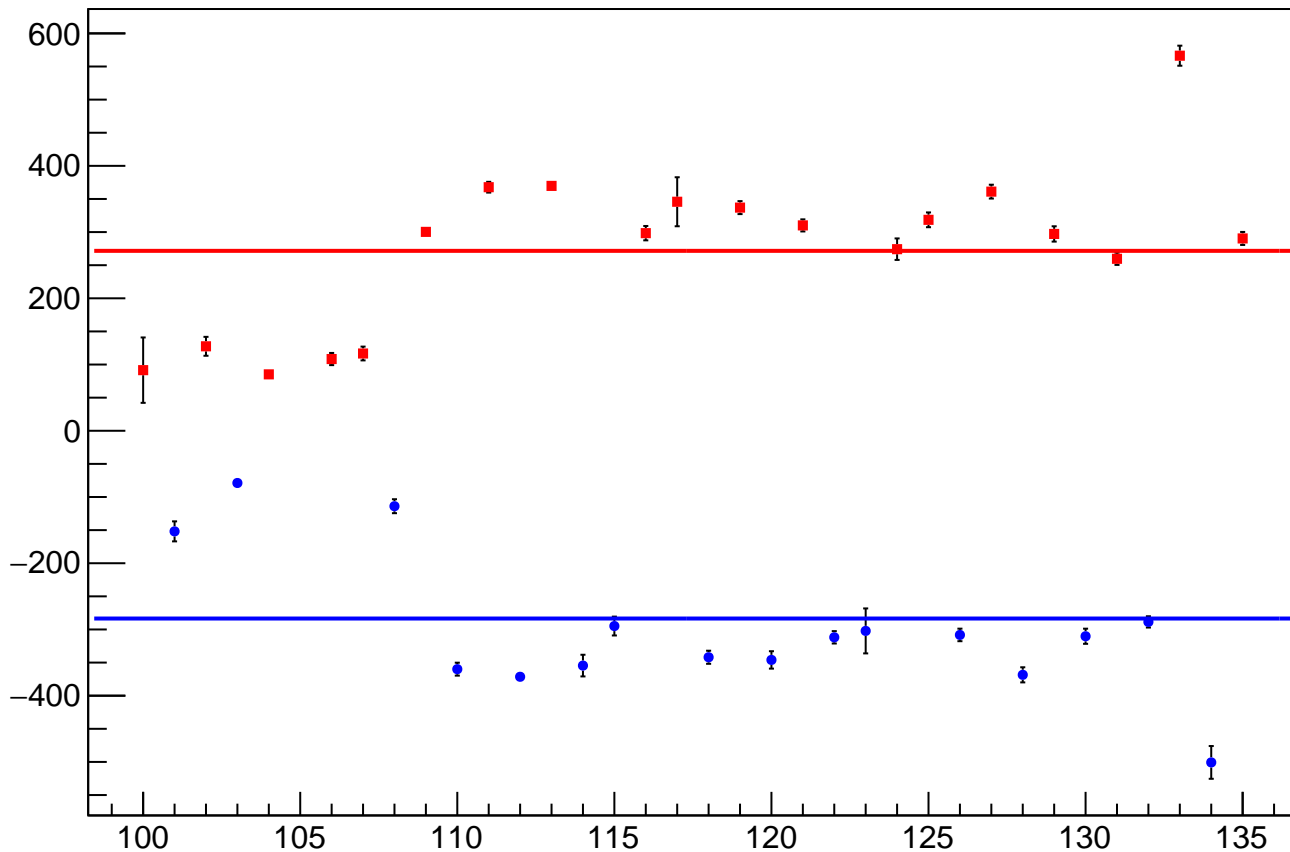
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

96.632+/-0.076  $\chi^2$ /NDF: 212954.6/15

-8.410+/-0.049  $\chi^2$ /NDF: 3877955.8/34

-83.574+/-0.064  $\chi^2$ /NDF: 399952.9/18

# reg\_asym\_atr\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-283.481 \pm 2.669$   $\chi^2/\text{NDF}: 1523.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $271.664 \pm 2.320$   $\chi^2/\text{NDF}: 2231.7/18$

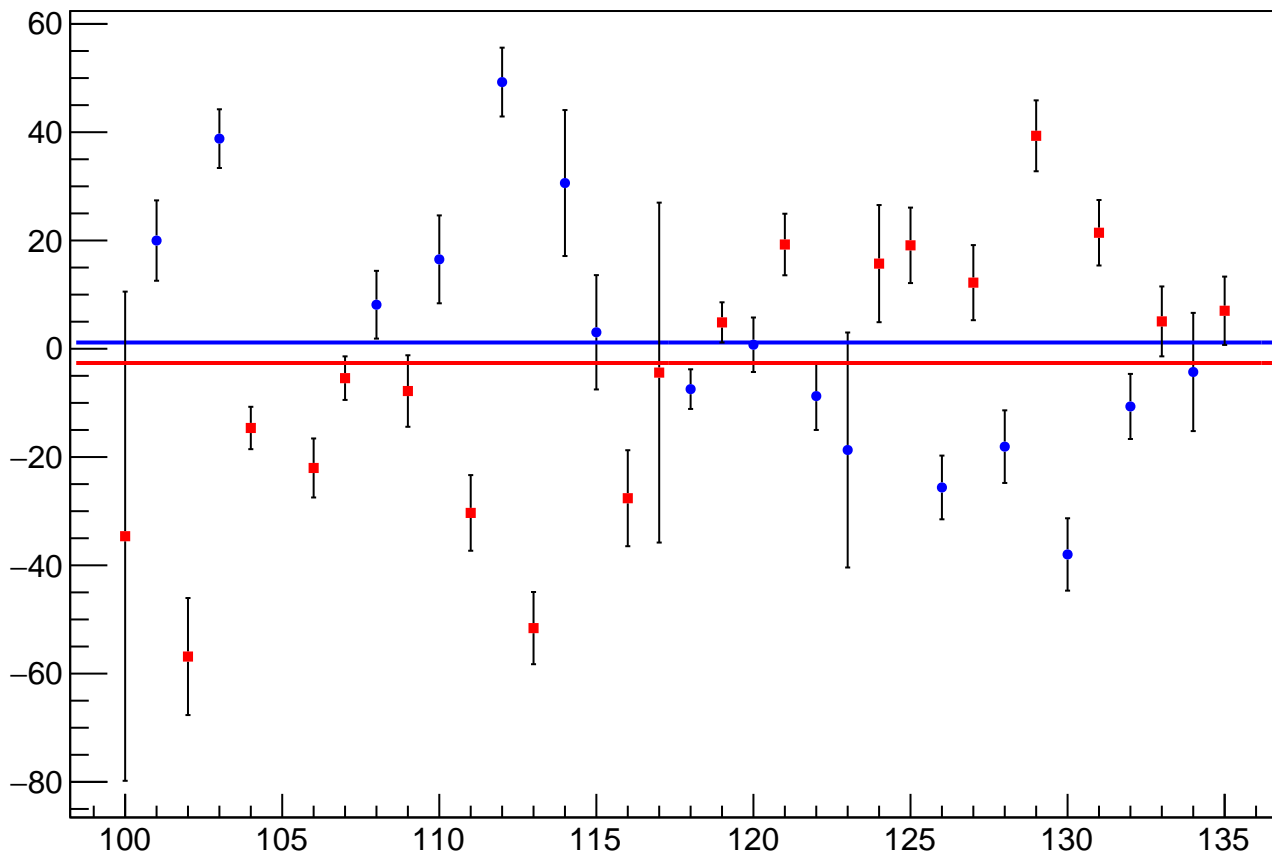
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-283.481 \pm 2.669$   $\chi^2/\text{NDF}: 1523.7/15$

$32.729 \pm 1.751$   $\chi^2/\text{NDF}: 28397.4/34$

$271.664 \pm 2.320$   $\chi^2/\text{NDF}: 2231.7/18$

# reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.157+/-1.615  $\chi^2/\text{NDF}$ : 197.8/15

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

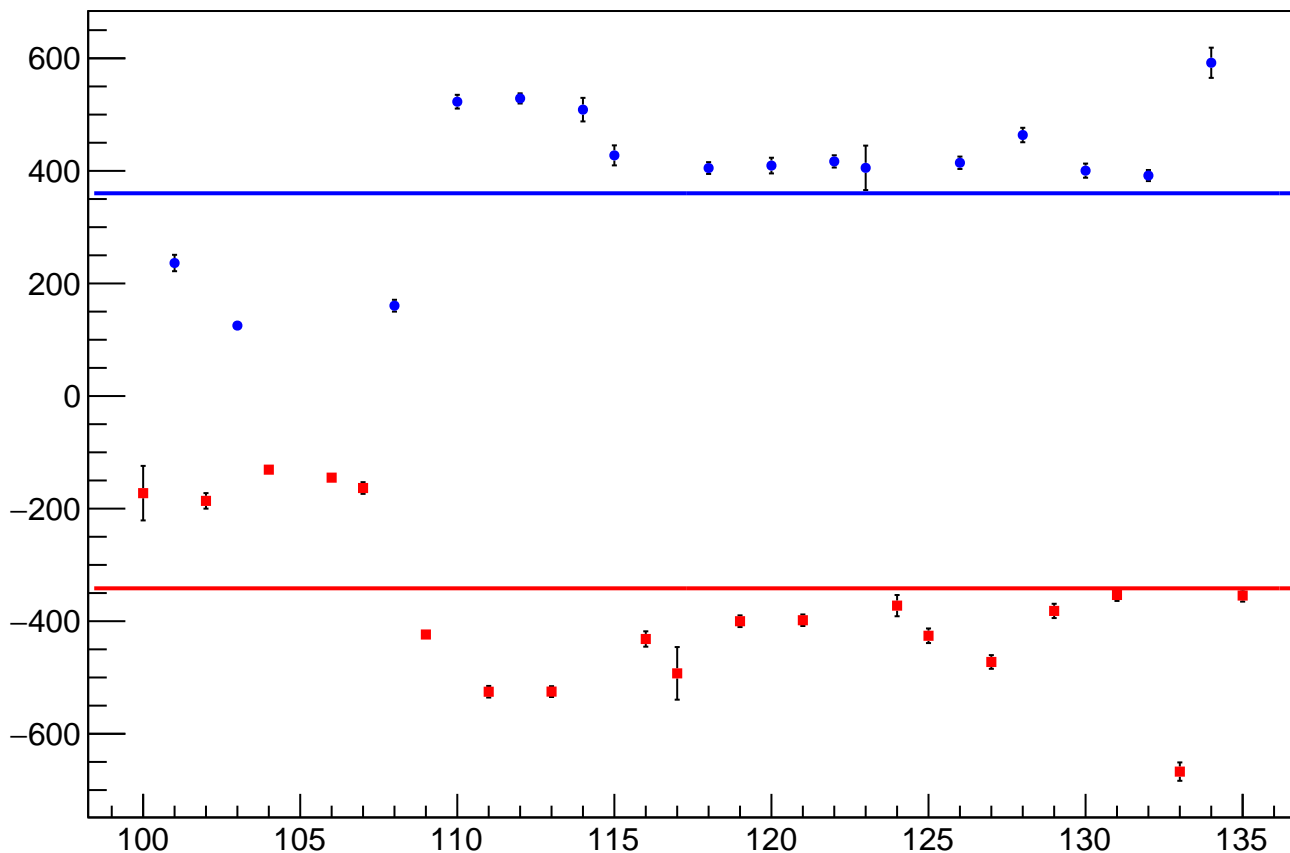
1.157+/-1.615  $\chi^2/\text{NDF}$ : 197.8/15

-0.991+/-1.062  $\chi^2/\text{NDF}$ : 424.0/34

-2.630+/-1.411  $\chi^2/\text{NDF}$ : 223.1/18



# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 360.216+/-2.978  $\chi^2$ /NDF: 2312.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -341.590+/-2.589  $\chi^2$ /NDF: 3328.6/18

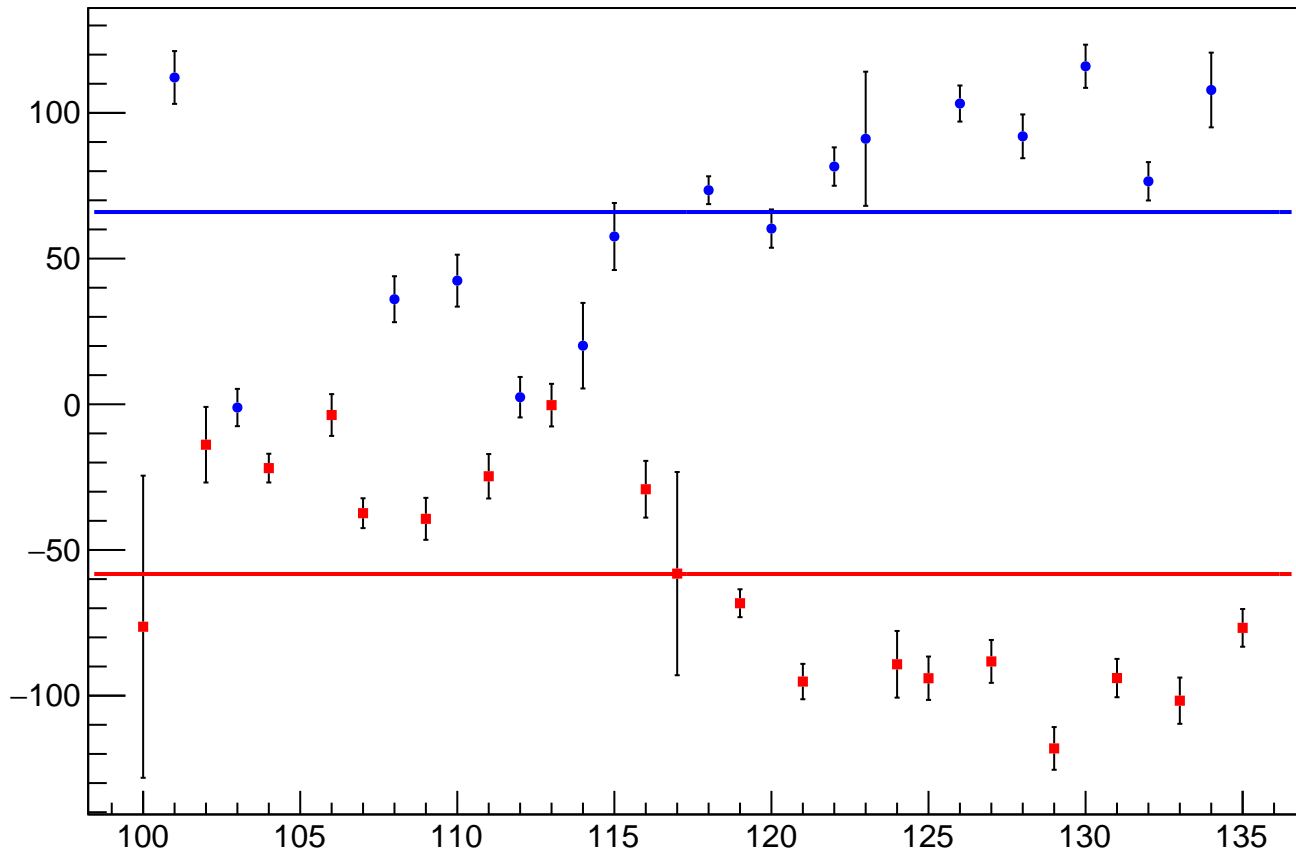
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

360.216+/-2.978  $\chi^2$ /NDF: 2312.8/15

-39.539+/-1.954  $\chi^2$ /NDF: 37271.9/34

-341.590+/-2.589  $\chi^2$ /NDF: 3328.6/18

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 65.978+/-1.885  $\chi^2$ /NDF: 368.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -58.252+/-1.649  $\chi^2$ /NDF: 461.5/18

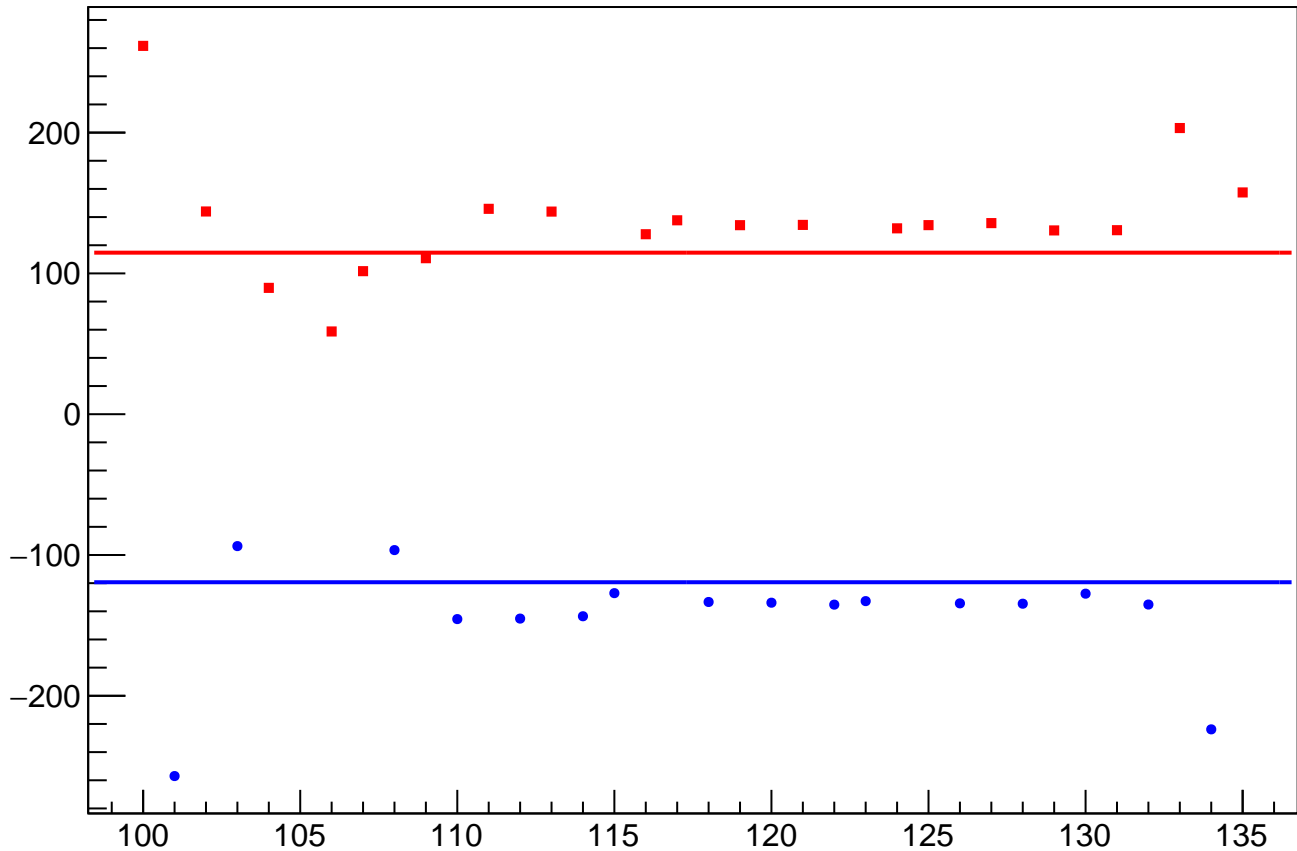
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

65.978+/-1.885  $\chi^2$ /NDF: 368.0/15

-4.425+/-1.241  $\chi^2$ /NDF: 3289.7/34

-58.252+/-1.649  $\chi^2$ /NDF: 461.5/18

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-119.345 \pm 0.100$   $\chi^2/\text{NDF}: 135430.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $114.729 \pm 0.084$   $\chi^2/\text{NDF}: 156718.4/18$

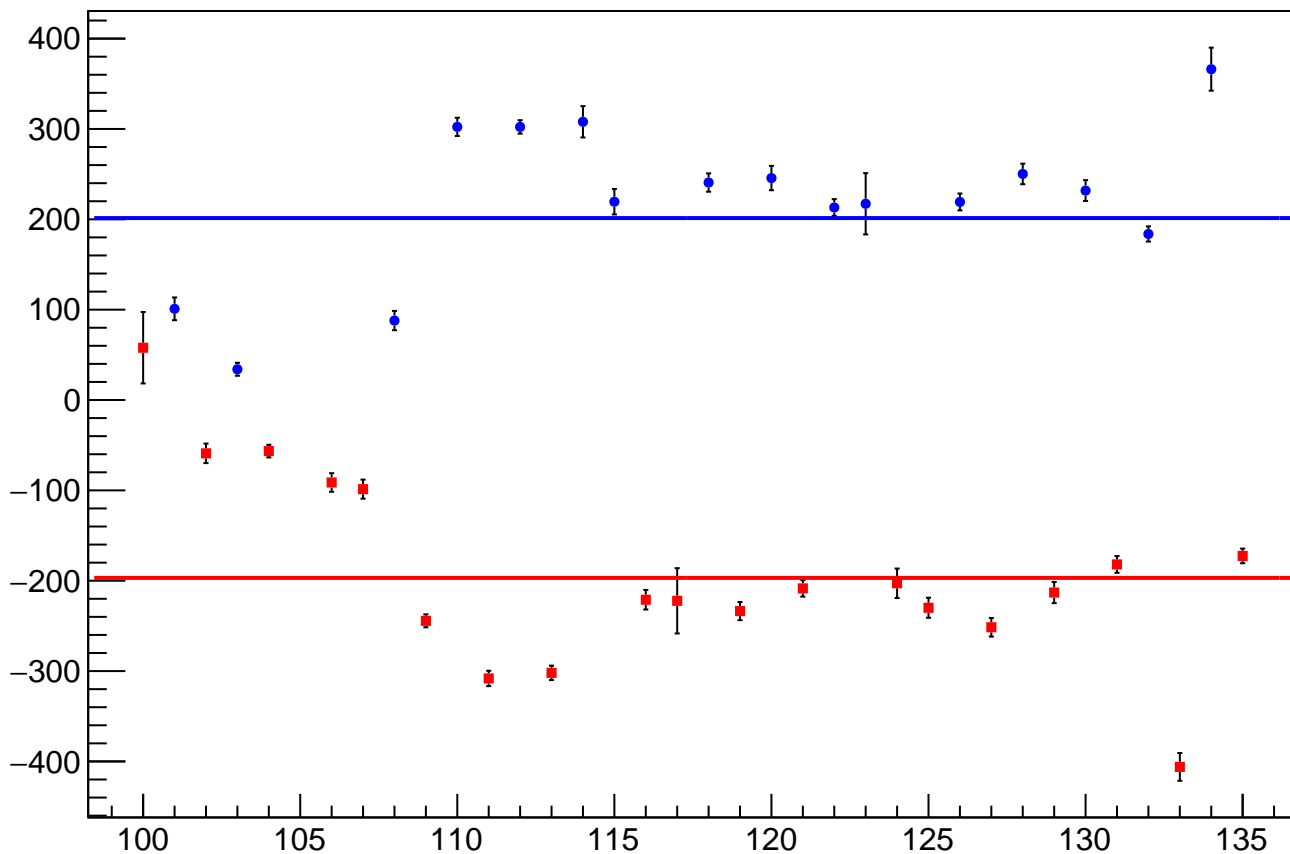
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-119.345 \pm 0.100$   $\chi^2/\text{NDF}: 135430.9/15$

$17.036 \pm 0.064$   $\chi^2/\text{NDF}: 3504023.1/34$

$114.729 \pm 0.084$   $\chi^2/\text{NDF}: 156718.4/18$

# reg\_asym\_atr\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 201.378+/-2.663  $\chi^2$ /NDF: 1152.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -196.864+/-2.307  $\chi^2$ /NDF: 1445.6/18

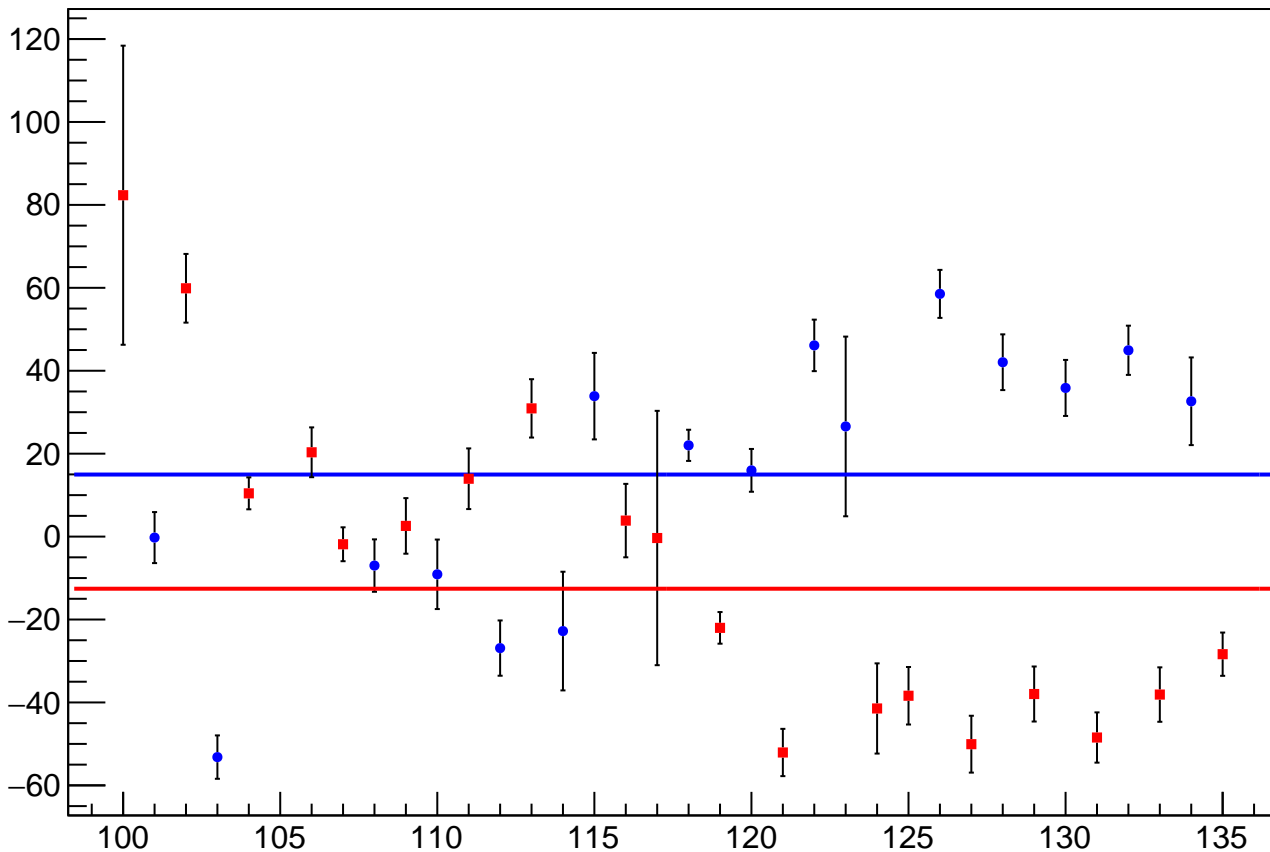
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

201.378+/-2.663  $\chi^2$ /NDF: 1152.1/15

-26.106+/-1.743  $\chi^2$ /NDF: 15377.1/34

-196.864+/-2.307  $\chi^2$ /NDF: 1445.6/18

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 14.967+/-1.609  $\chi^2$ /NDF: 385.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -12.572+/-1.407  $\chi^2$ /NDF: 395.0/18

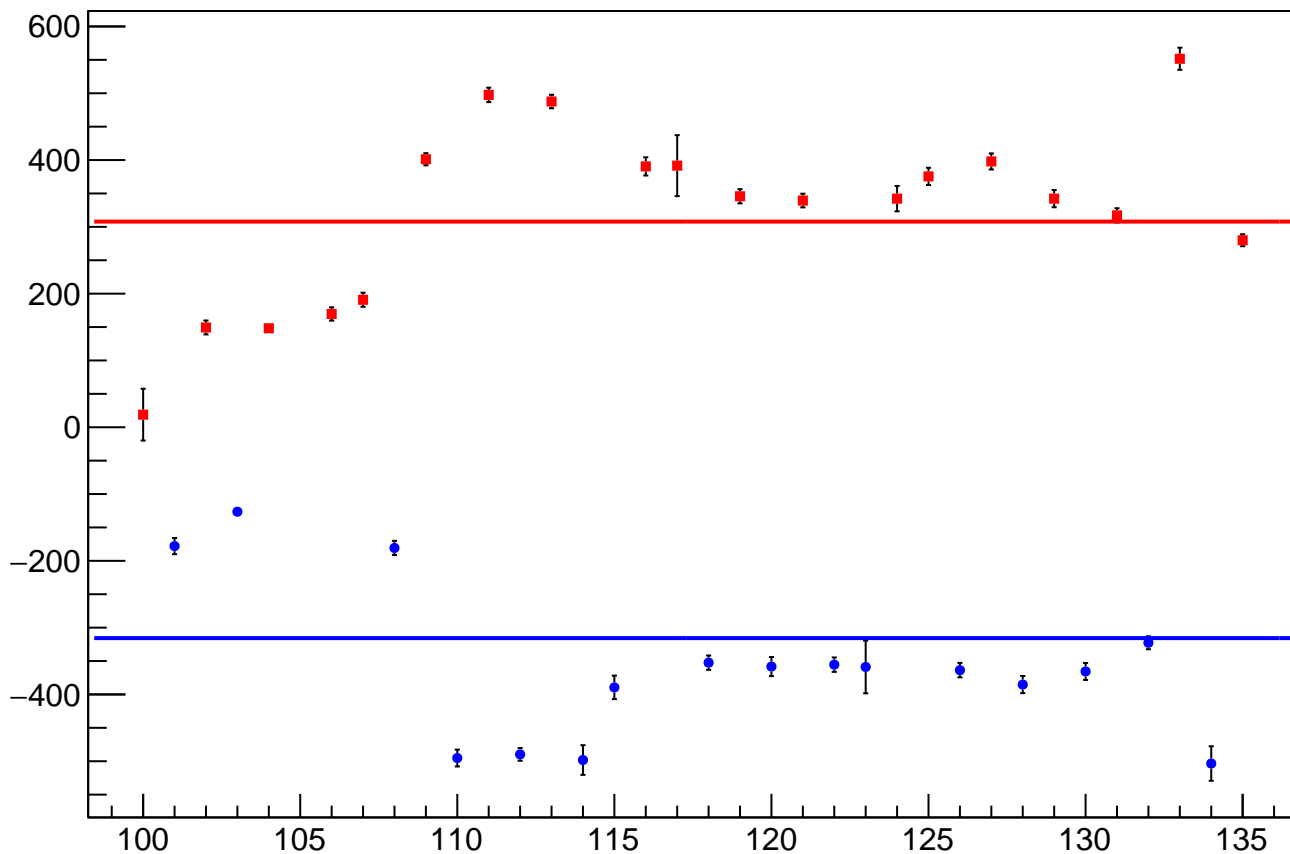
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

14.967+/-1.609  $\chi^2$ /NDF: 385.4/15

-0.638+/-1.059  $\chi^2$ /NDF: 946.4/34

-12.572+/-1.407  $\chi^2$ /NDF: 395.0/18

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-315.672 \pm 2.954$   $\chi^2/\text{NDF}: 1810.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $307.876 \pm 2.564$   $\chi^2/\text{NDF}: 2272.0/18$

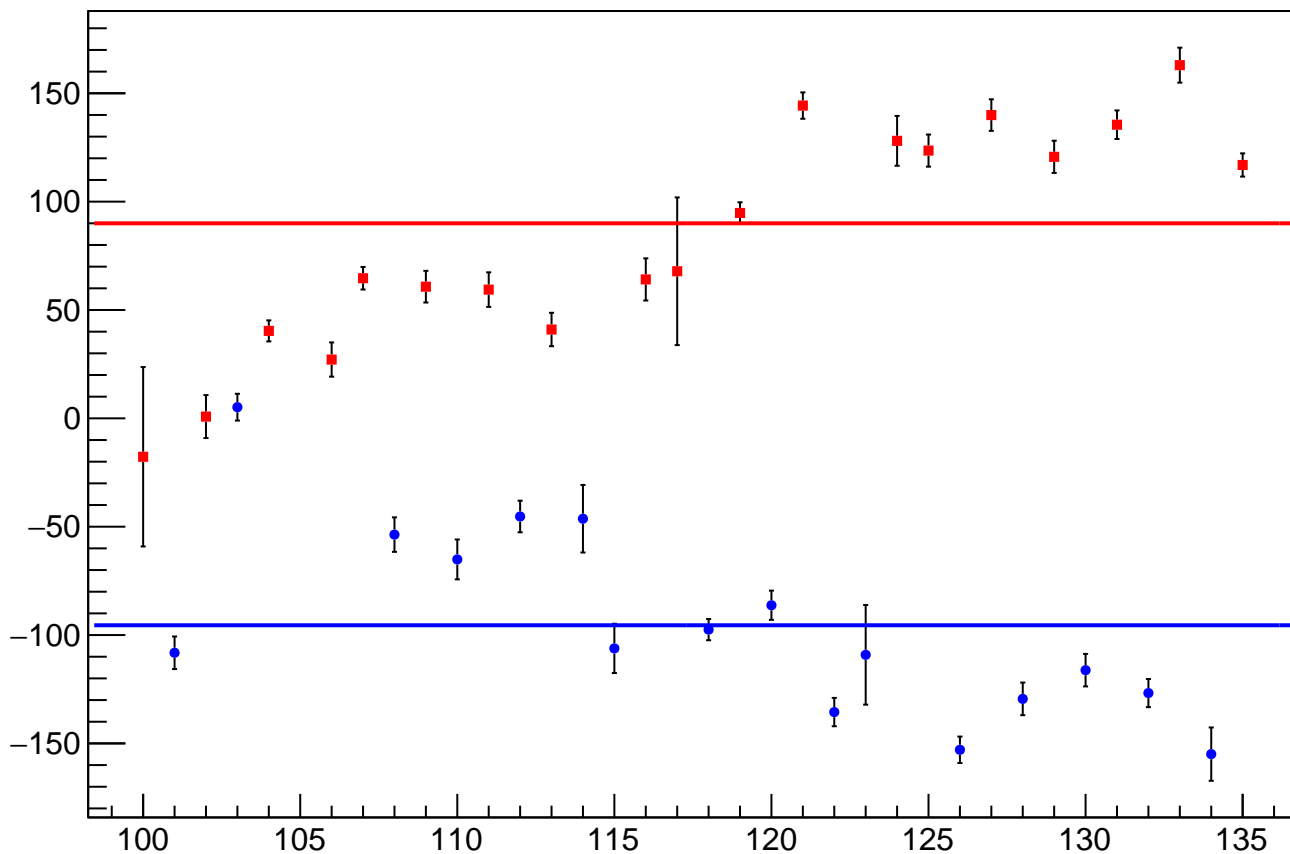
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-315.672 \pm 2.954$   $\chi^2/\text{NDF}: 1810.3/15$

$39.909 \pm 1.936$   $\chi^2/\text{NDF}: 29494.2/34$

$307.876 \pm 2.564$   $\chi^2/\text{NDF}: 2272.0/18$

# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-95.486 \pm 1.877$   $\chi^2/\text{NDF}: 568.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $89.999 \pm 1.637$   $\chi^2/\text{NDF}: 689.0/18$

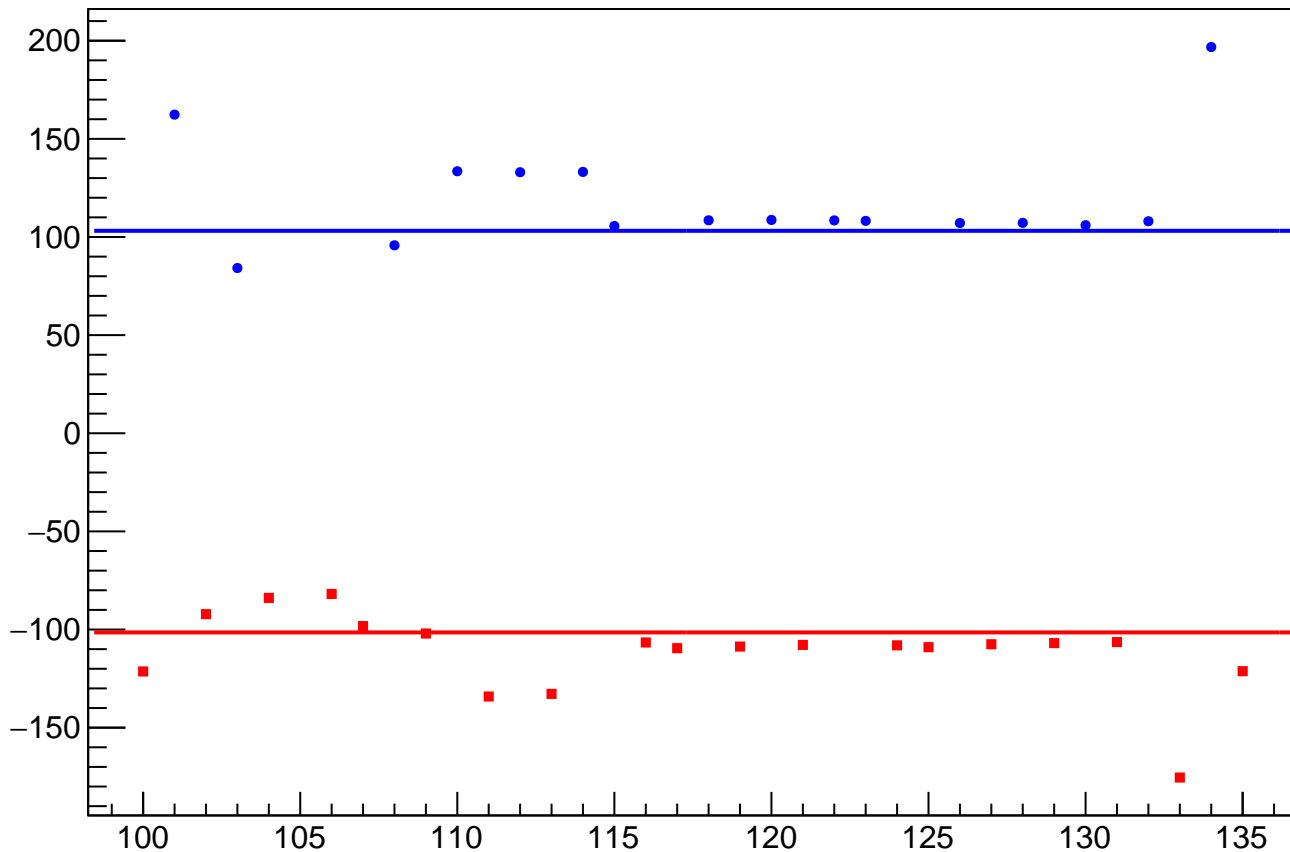
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-95.486 \pm 1.877$   $\chi^2/\text{NDF}: 568.3/15$

$9.884 \pm 1.234$   $\chi^2/\text{NDF}: 6803.5/34$

$89.999 \pm 1.637$   $\chi^2/\text{NDF}: 689.0/18$

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 103.143+/-0.098  $\chi^2$ /NDF: 61105.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -101.475+/-0.081  $\chi^2$ /NDF: 49479.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

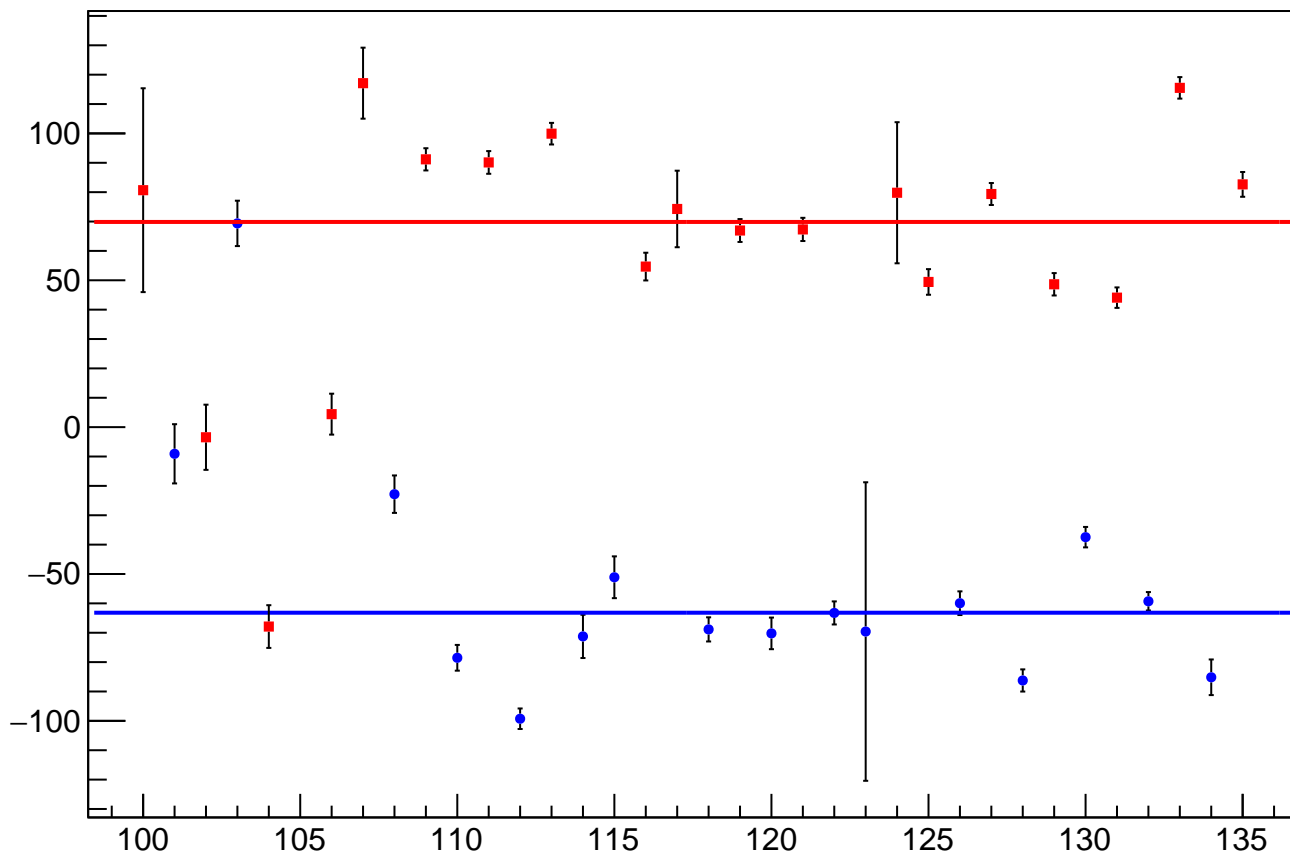
103.143+/-0.098  $\chi^2$ /NDF: 61105.0/15

-17.546+/-0.063  $\chi^2$ /NDF: 2698536.9/34

-101.475+/-0.081  $\chi^2$ /NDF: 49479.1/18



reg\_asym\_at1\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-63.181 \pm 1.174$   $\chi^2/\text{NDF}: 597.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $69.860 \pm 1.082$   $\chi^2/\text{NDF}: 922.5/18$

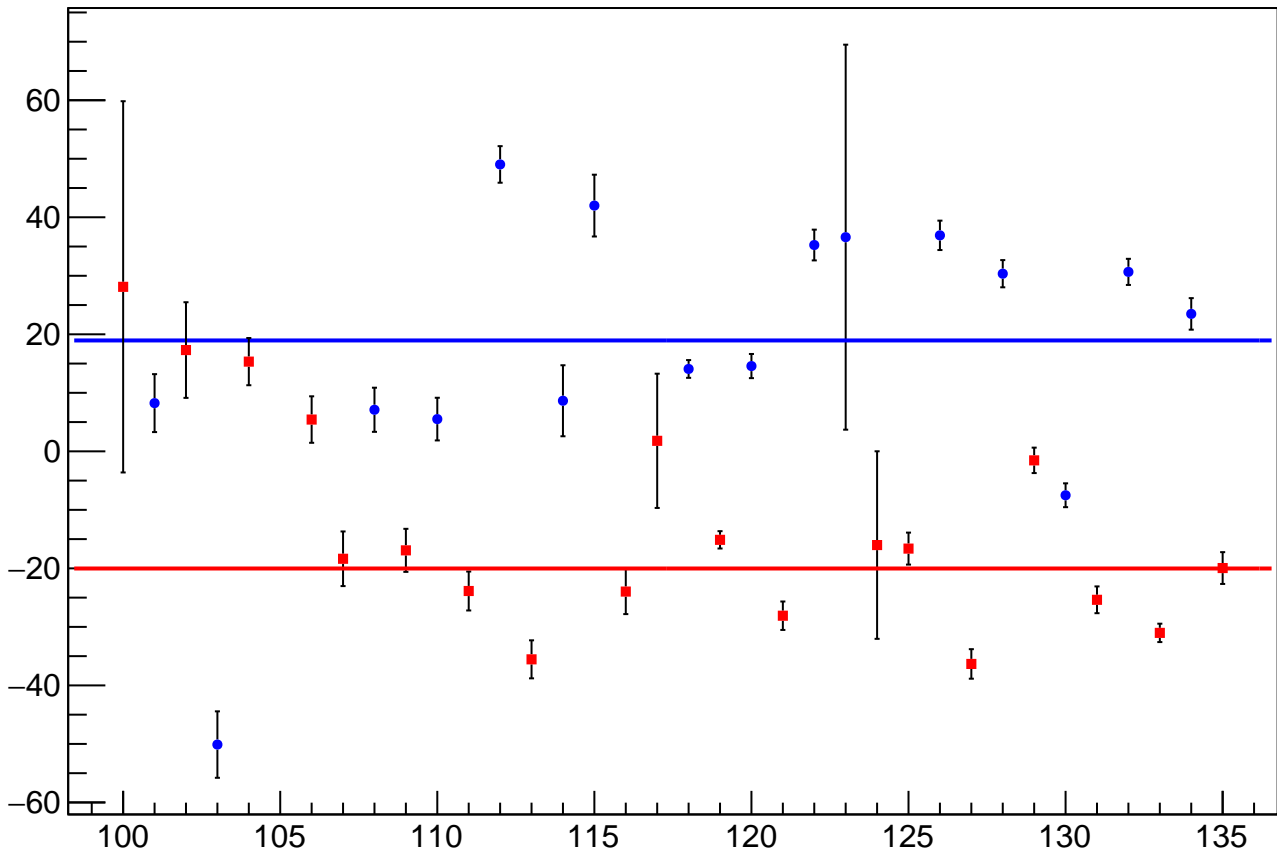
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-63.181 \pm 1.174$   $\chi^2/\text{NDF}: 597.3/15$

$8.793 \pm 0.796$   $\chi^2/\text{NDF}: 8464.4/34$

$69.860 \pm 1.082$   $\chi^2/\text{NDF}: 922.5/18$

# reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.949+/-0.687  $\chi^2$ /NDF: 618.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -20.022+/-0.648  $\chi^2$ /NDF: 362.8/18

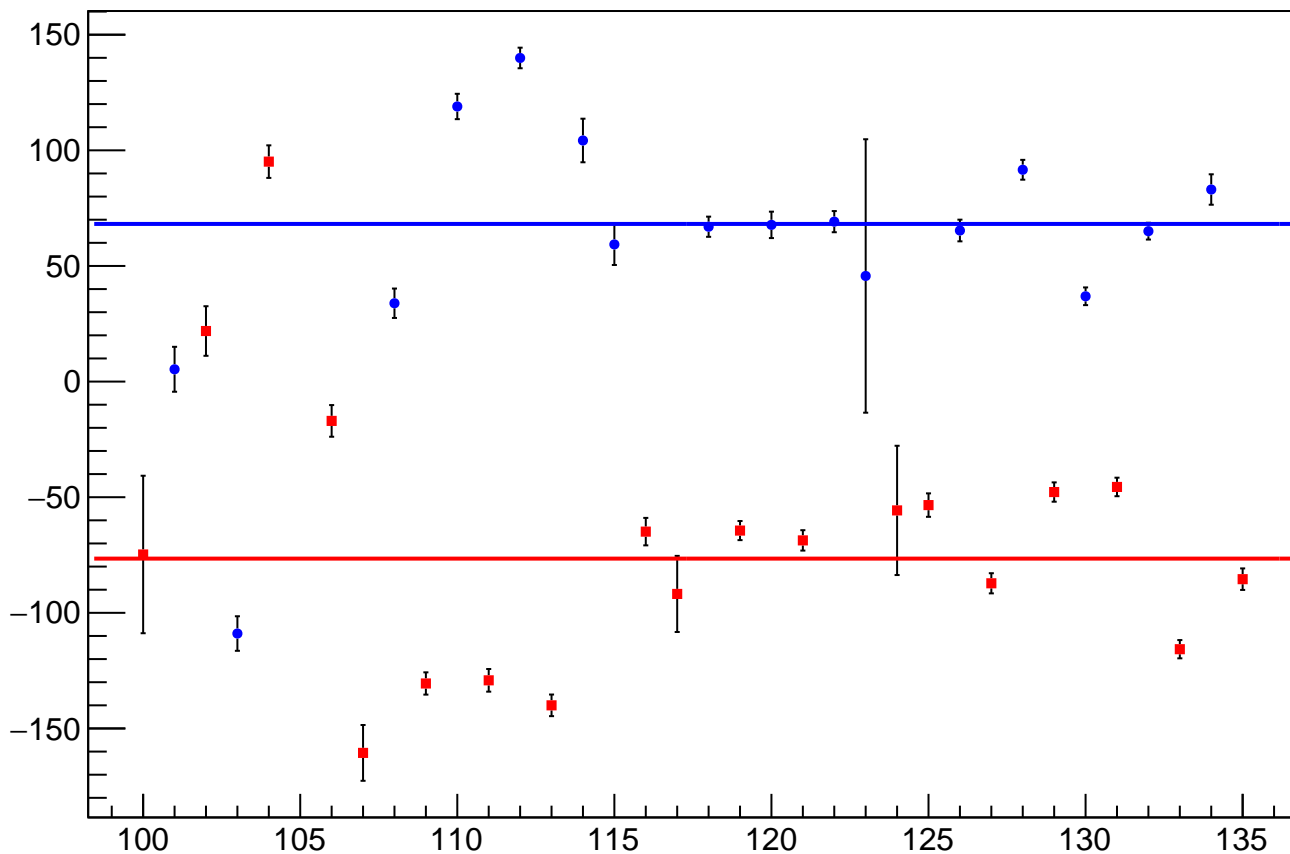
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

18.949+/-0.687  $\chi^2$ /NDF: 618.4/15

-1.679+/-0.471  $\chi^2$ /NDF: 2685.4/34

-20.022+/-0.648  $\chi^2$ /NDF: 362.8/18

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 68.172+/-1.337  $\chi^2$ /NDF: 1097.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -76.551+/-1.237  $\chi^2$ /NDF: 1481.7/18

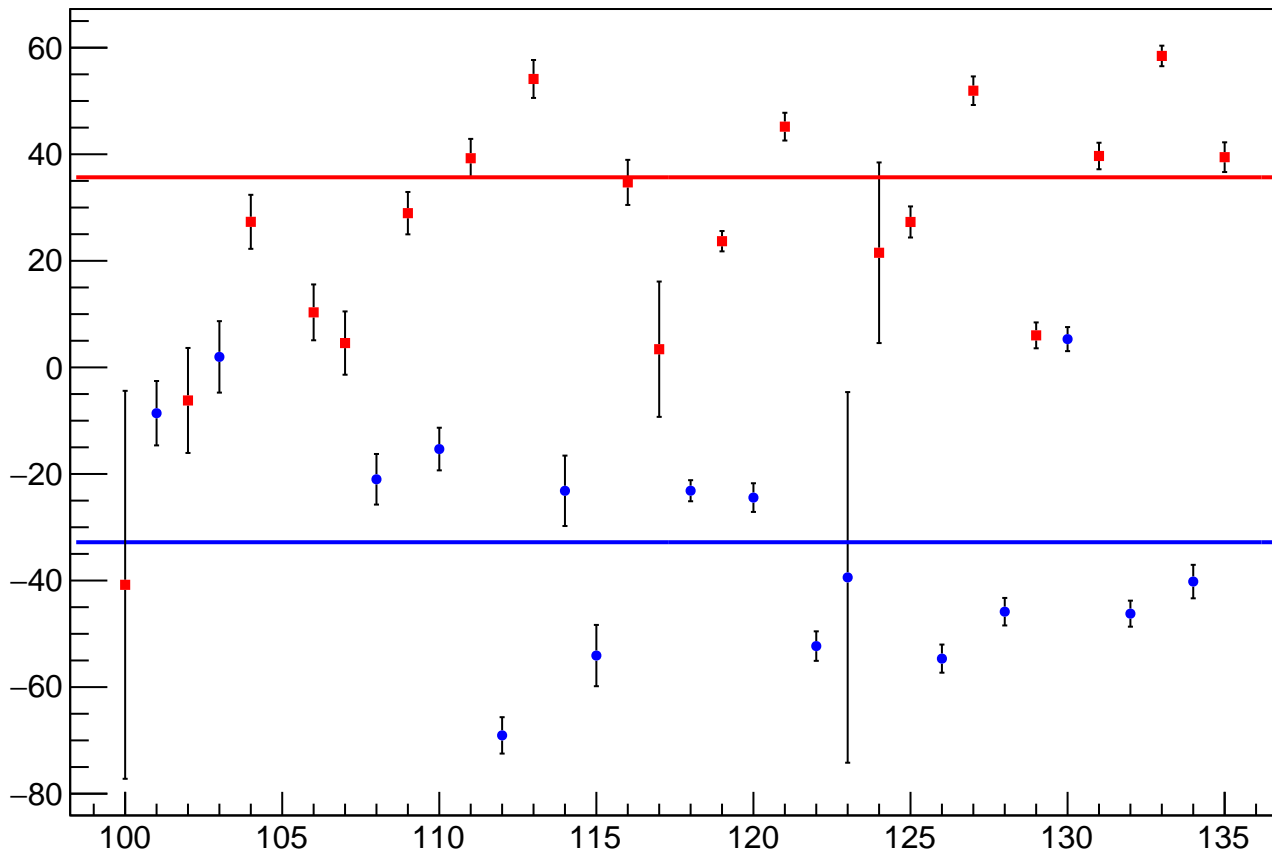
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

68.172+/-1.337  $\chi^2$ /NDF: 1097.9/15

-9.804+/-0.908  $\chi^2$ /NDF: 8892.1/34

-76.551+/-1.237  $\chi^2$ /NDF: 1481.7/18

reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-32.810 \pm 0.796$   $\chi^2/\text{NDF}: 694.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $35.678 \pm 0.744$   $\chi^2/\text{NDF}: 505.1/18$

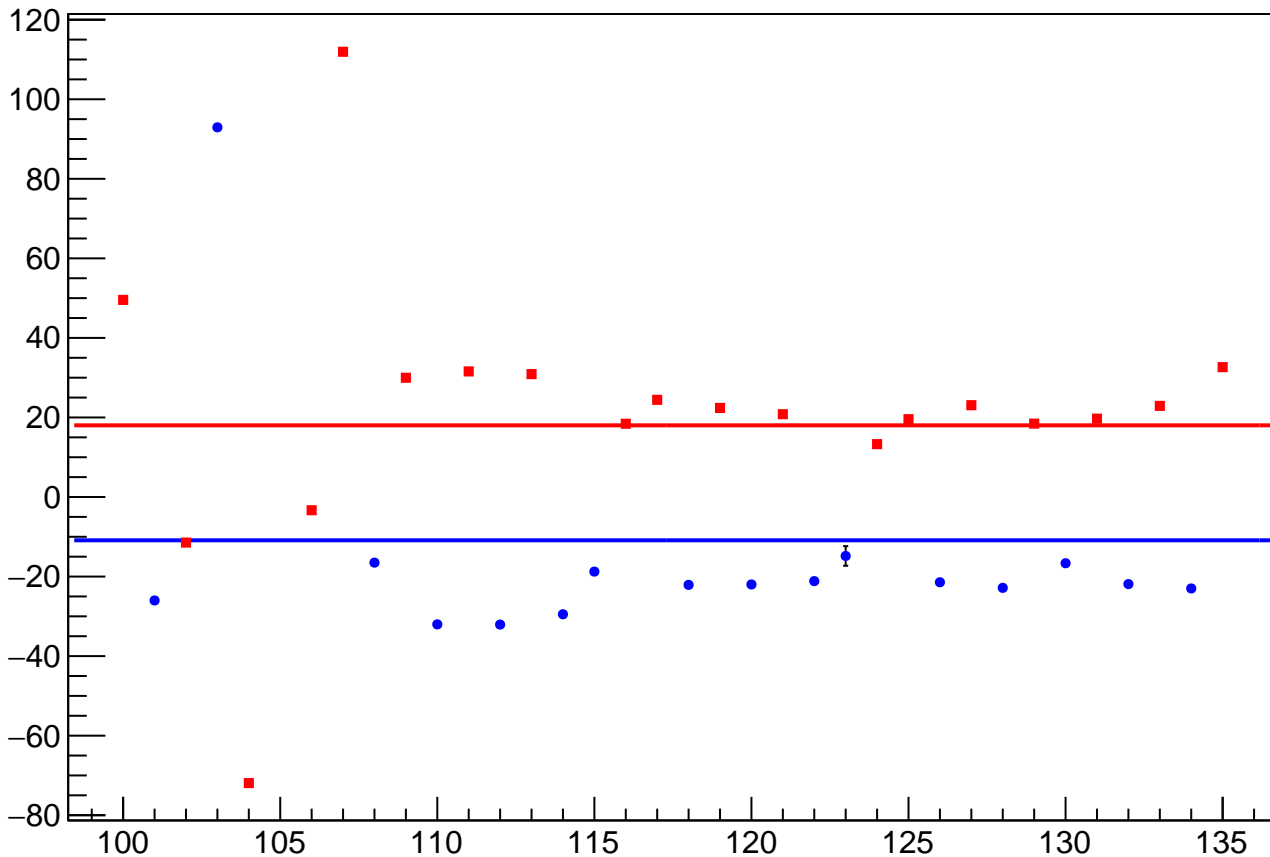
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-32.810 \pm 0.796$   $\chi^2/\text{NDF}: 694.5/15$

$3.736 \pm 0.544$   $\chi^2/\text{NDF}: 5151.2/34$

$35.678 \pm 0.744$   $\chi^2/\text{NDF}: 505.1/18$

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-10.884 \pm 0.052$   $\chi^2/\text{NDF}: 432120.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $18.022 \pm 0.047$   $\chi^2/\text{NDF}: 427253.4/18$

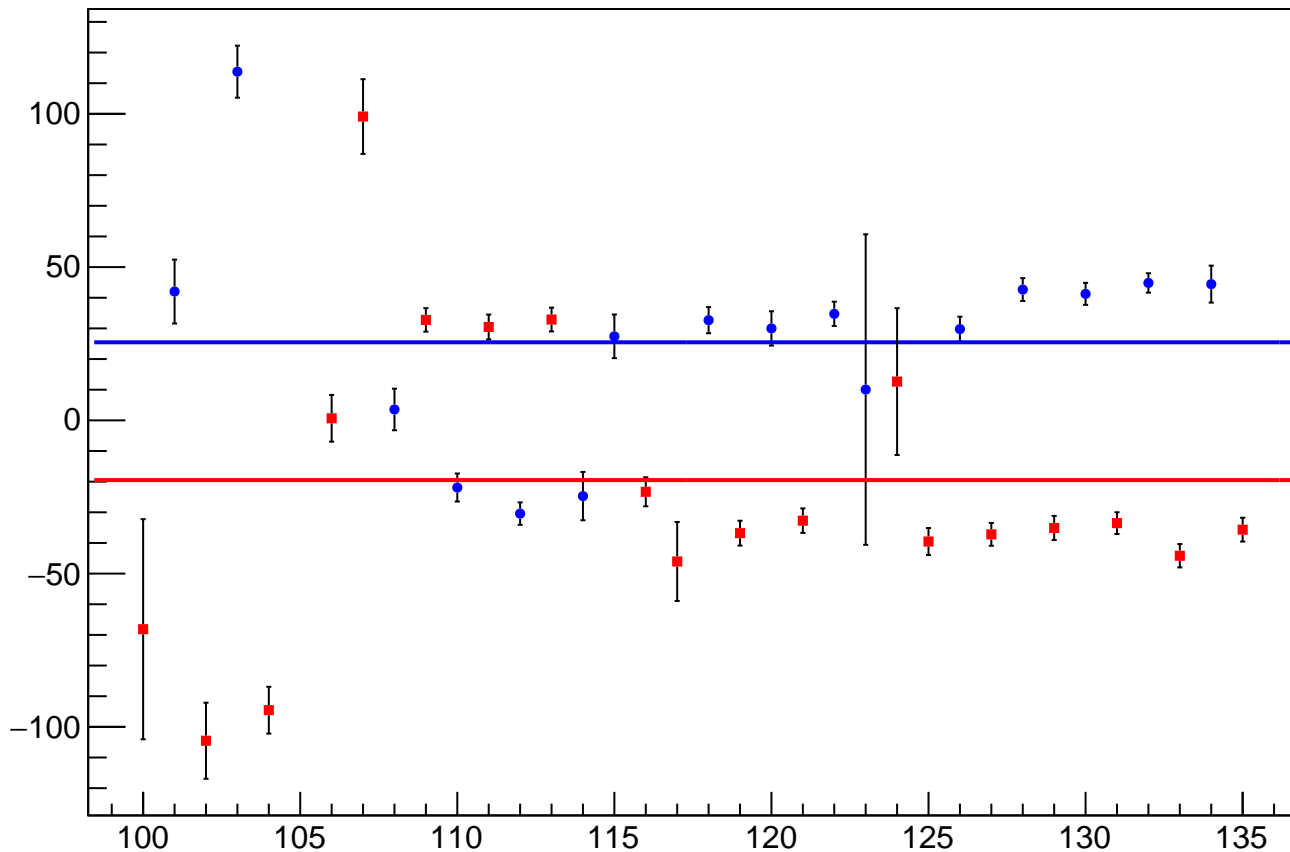
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-10.884 \pm 0.052$   $\chi^2/\text{NDF}: 432120.2/15$

$5.172 \pm 0.035$   $\chi^2/\text{NDF}: 1031091.0/34$

$18.022 \pm 0.047$   $\chi^2/\text{NDF}: 427253.4/18$

# reg\_asym\_at1\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 25.468 $\pm$ 1.202  $\chi^2$ /NDF: 600.8/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -19.505 $\pm$ 1.103  $\chi^2$ /NDF: 936.3/18

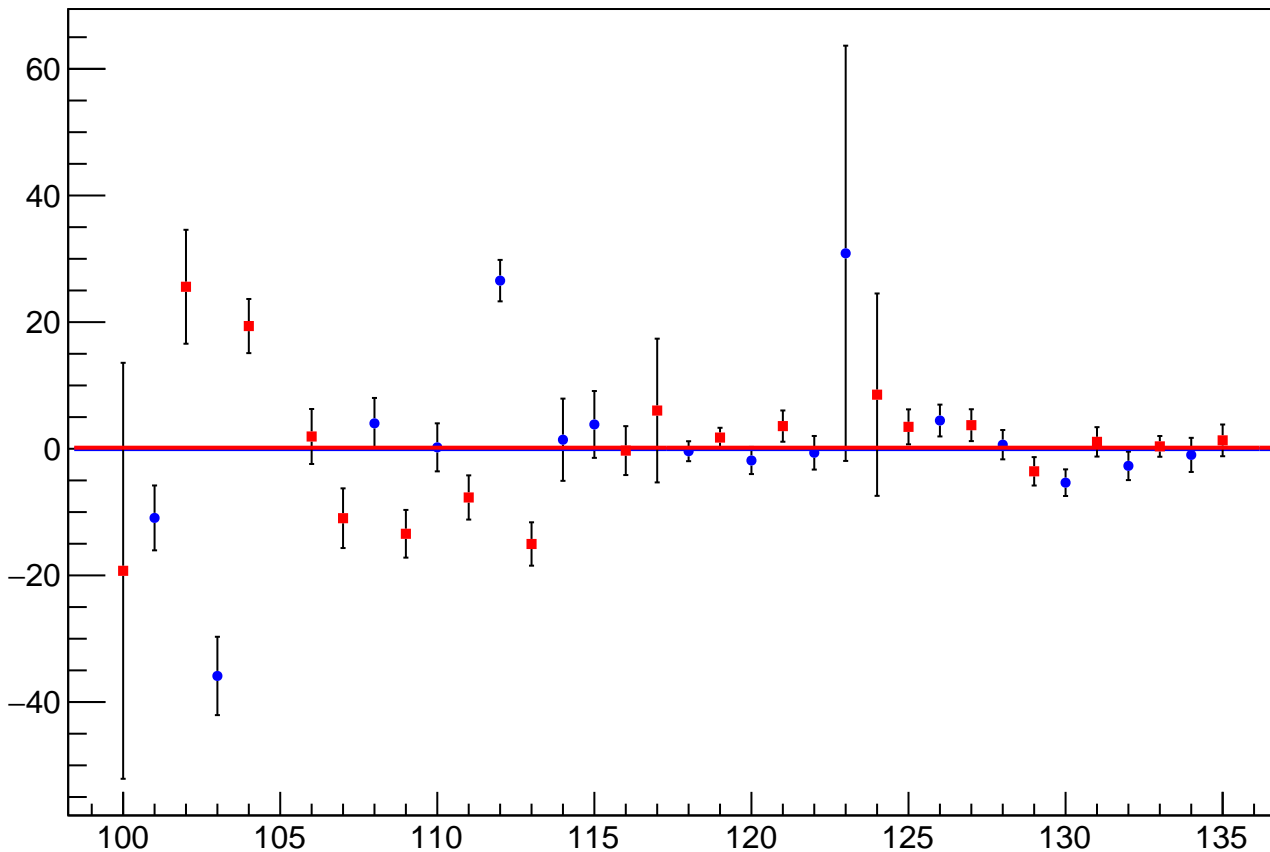
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

25.468 $\pm$ 1.202  $\chi^2$ /NDF: 600.8/15

1.065 $\pm$ 0.813  $\chi^2$ /NDF: 2297.3/34

-19.505 $\pm$ 1.103  $\chi^2$ /NDF: 936.3/18

# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.053 \pm 0.704$   $\chi^2/\text{NDF}: 118.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $0.171 \pm 0.664$   $\chi^2/\text{NDF}: 82.2/18$

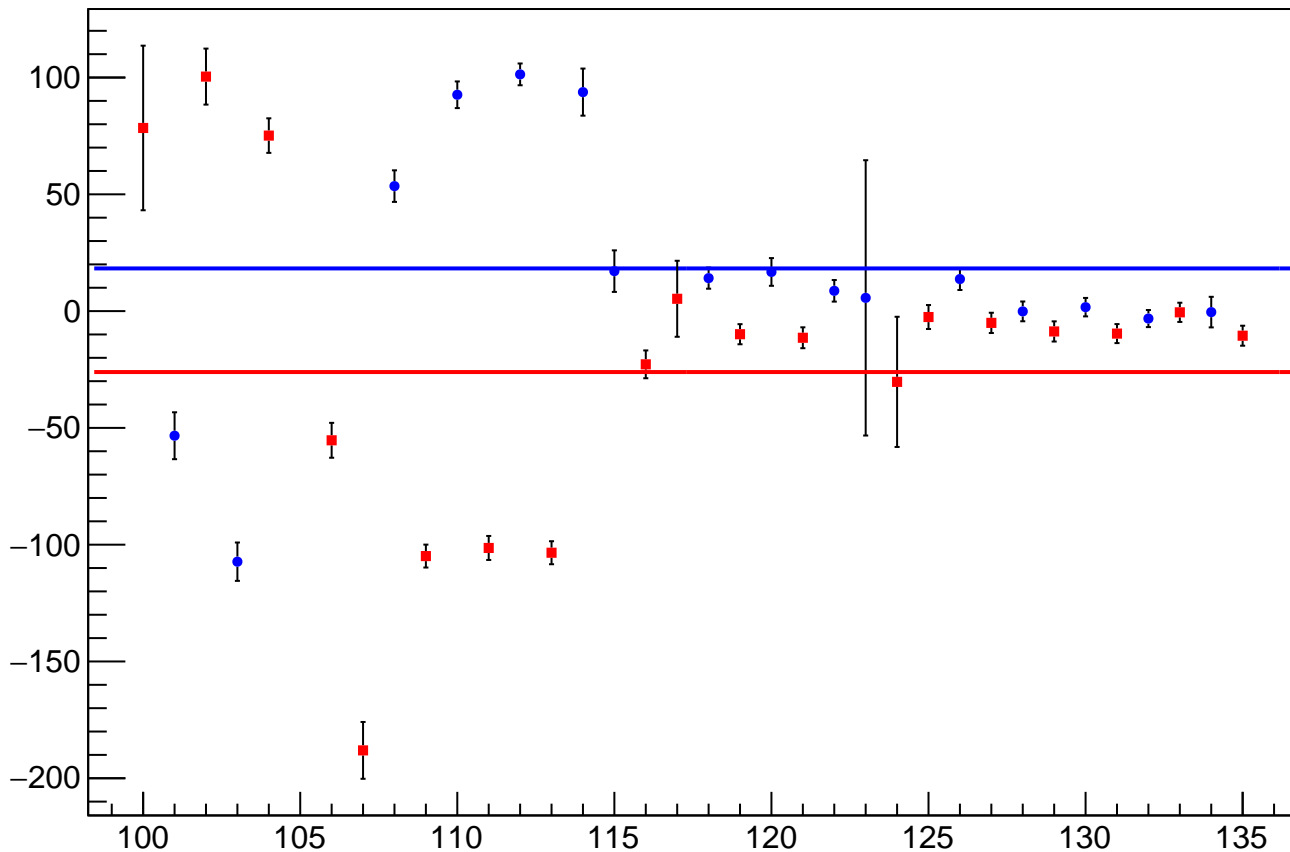
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.053 \pm 0.704$   $\chi^2/\text{NDF}: 118.6/15$

$0.065 \pm 0.483$   $\chi^2/\text{NDF}: 200.9/34$

$0.171 \pm 0.664$   $\chi^2/\text{NDF}: 82.2/18$

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $18.271 \pm 1.369$   $\chi^2/\text{NDF}: 940.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-26.092 \pm 1.263$   $\chi^2/\text{NDF}: 1377.1/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

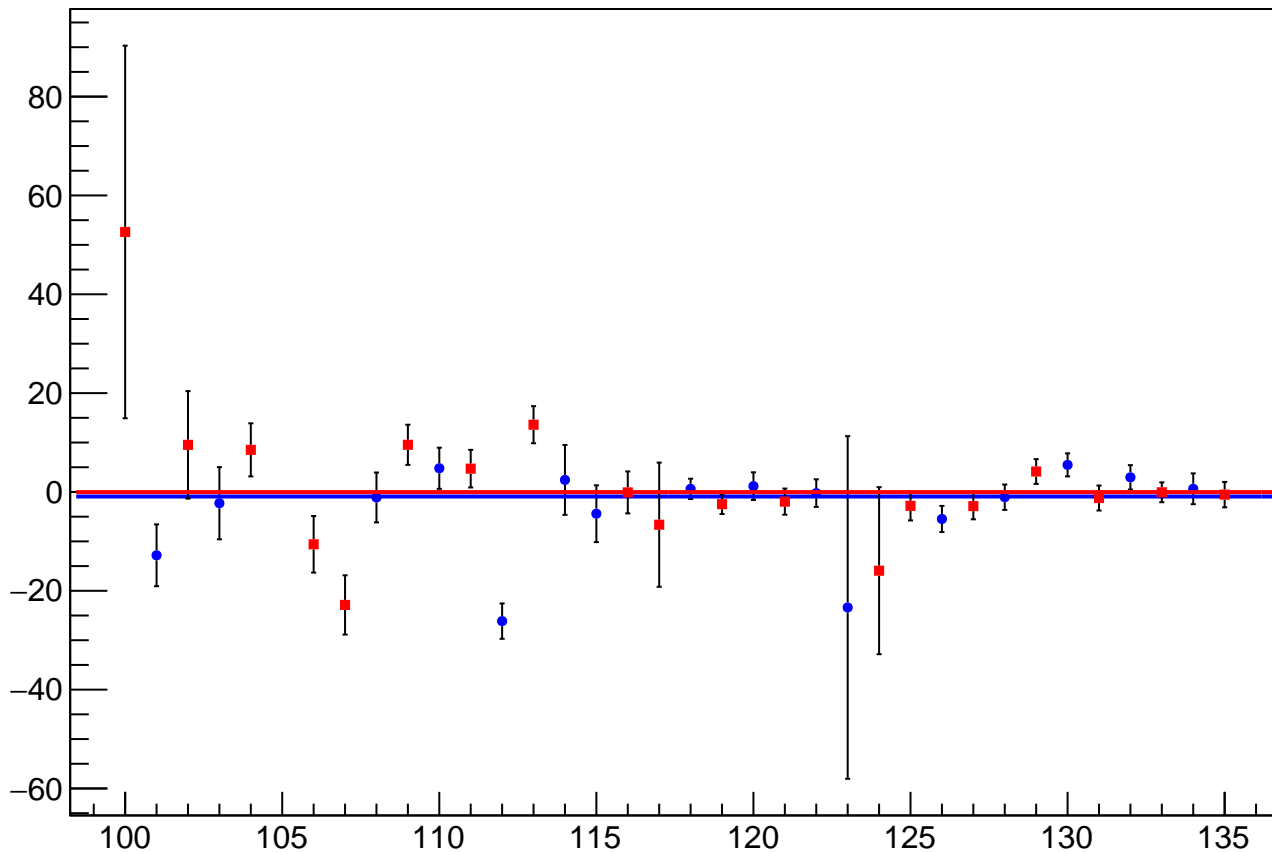
$18.271 \pm 1.369$   $\chi^2/\text{NDF}: 940.4/15$

$-5.707 \pm 0.928$   $\chi^2/\text{NDF}: 2884.9/34$

$-26.092 \pm 1.263$   $\chi^2/\text{NDF}: 1377.1/18$



# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.922 \pm 0.814$   $\chi^2/\text{NDF}: 70.7/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.023 \pm 0.760$   $\chi^2/\text{NDF}: 51.7/18$

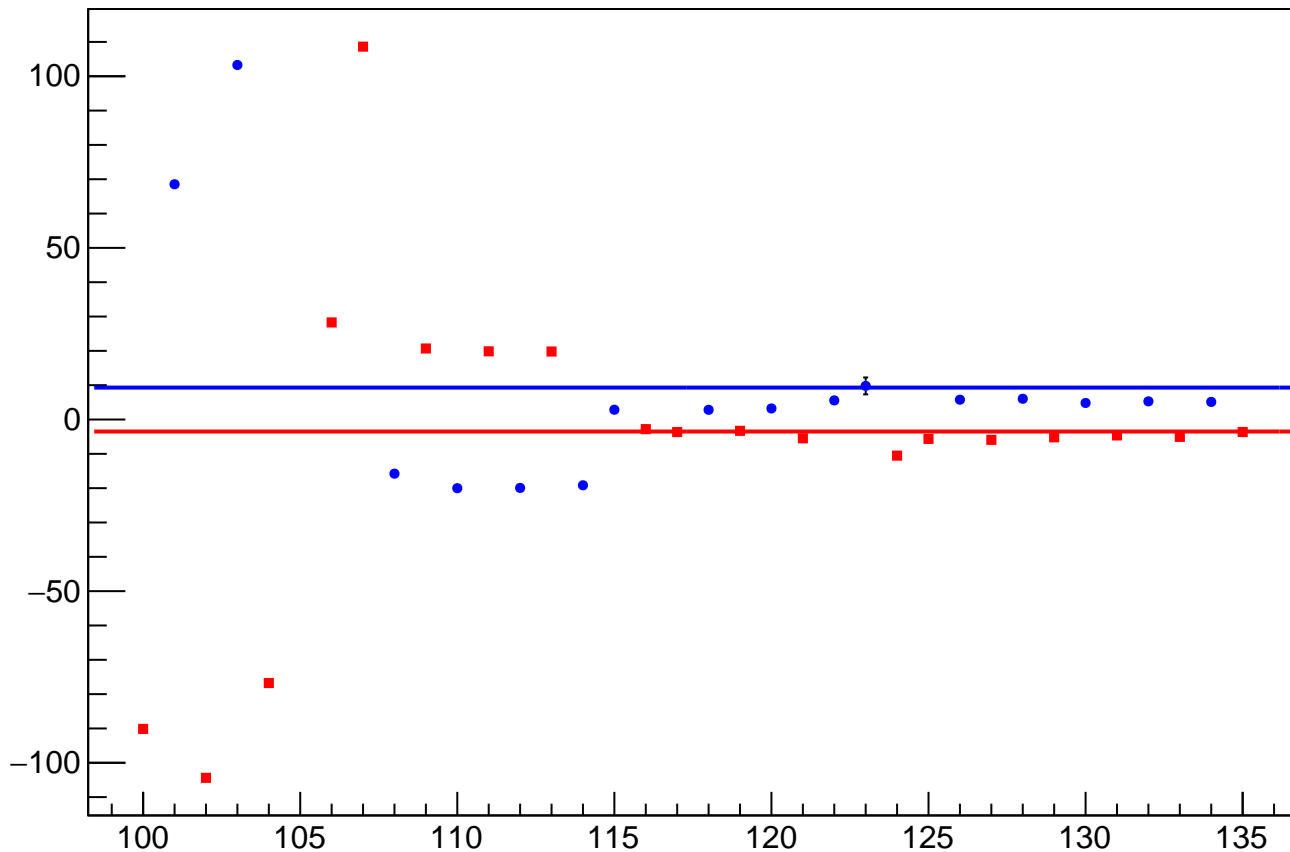
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.922 \pm 0.814$   $\chi^2/\text{NDF}: 70.7/15$

$-0.441 \pm 0.555$   $\chi^2/\text{NDF}: 123.0/34$

$-0.023 \pm 0.760$   $\chi^2/\text{NDF}: 51.7/18$

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 9.300+/-0.053  $\chi^2/\text{NDF}$ : 352219.8/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.495+/-0.047  $\chi^2/\text{NDF}$ : 510578.9/18

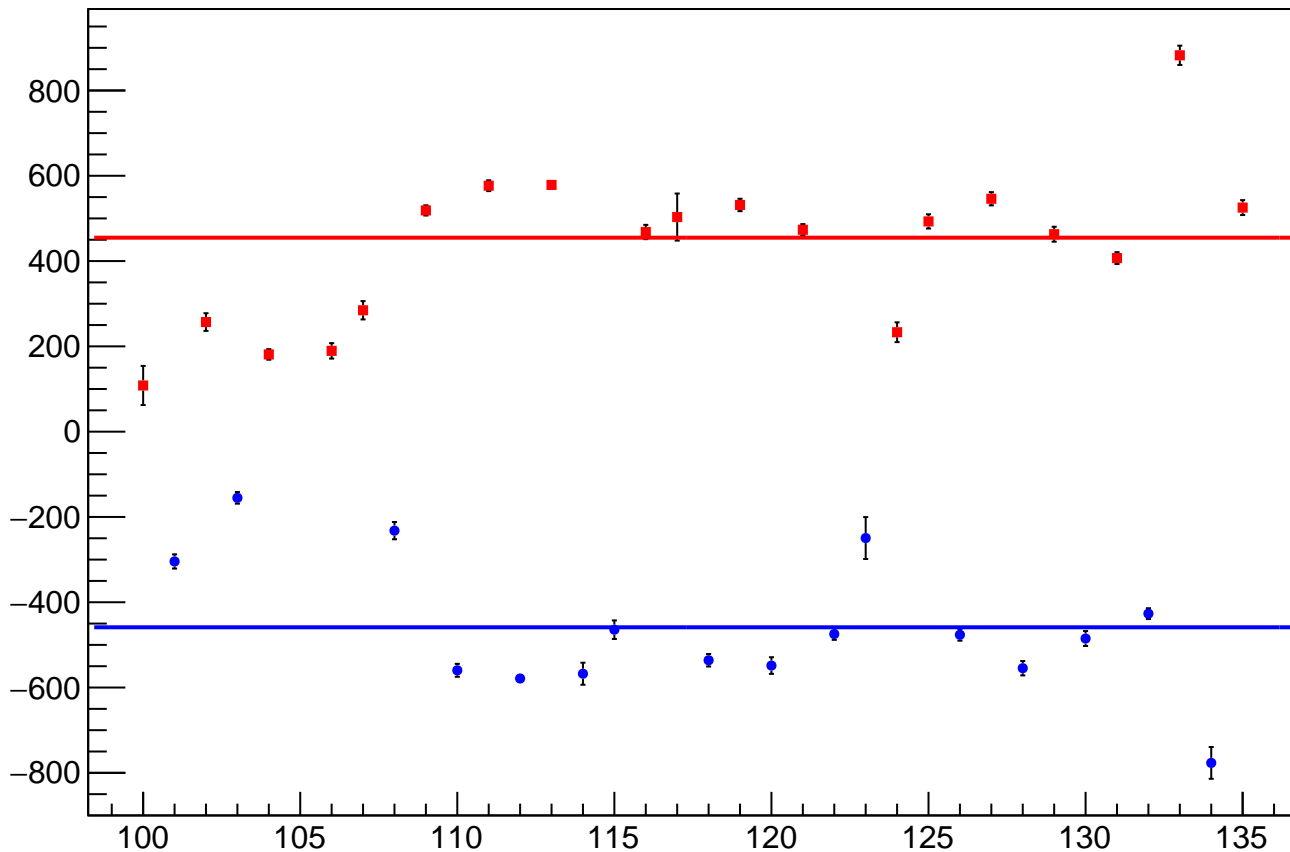
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.300+/-0.053  $\chi^2/\text{NDF}$ : 352219.8/15

2.103+/-0.035  $\chi^2/\text{NDF}$ : 894975.4/34

-3.495+/-0.047  $\chi^2/\text{NDF}$ : 510578.9/18

# reg\_asym\_at2\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-458.722 \pm 4.096$   $\chi^2/\text{NDF}: 1073.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $454.852 \pm 3.707$   $\chi^2/\text{NDF}: 1697.9/18$

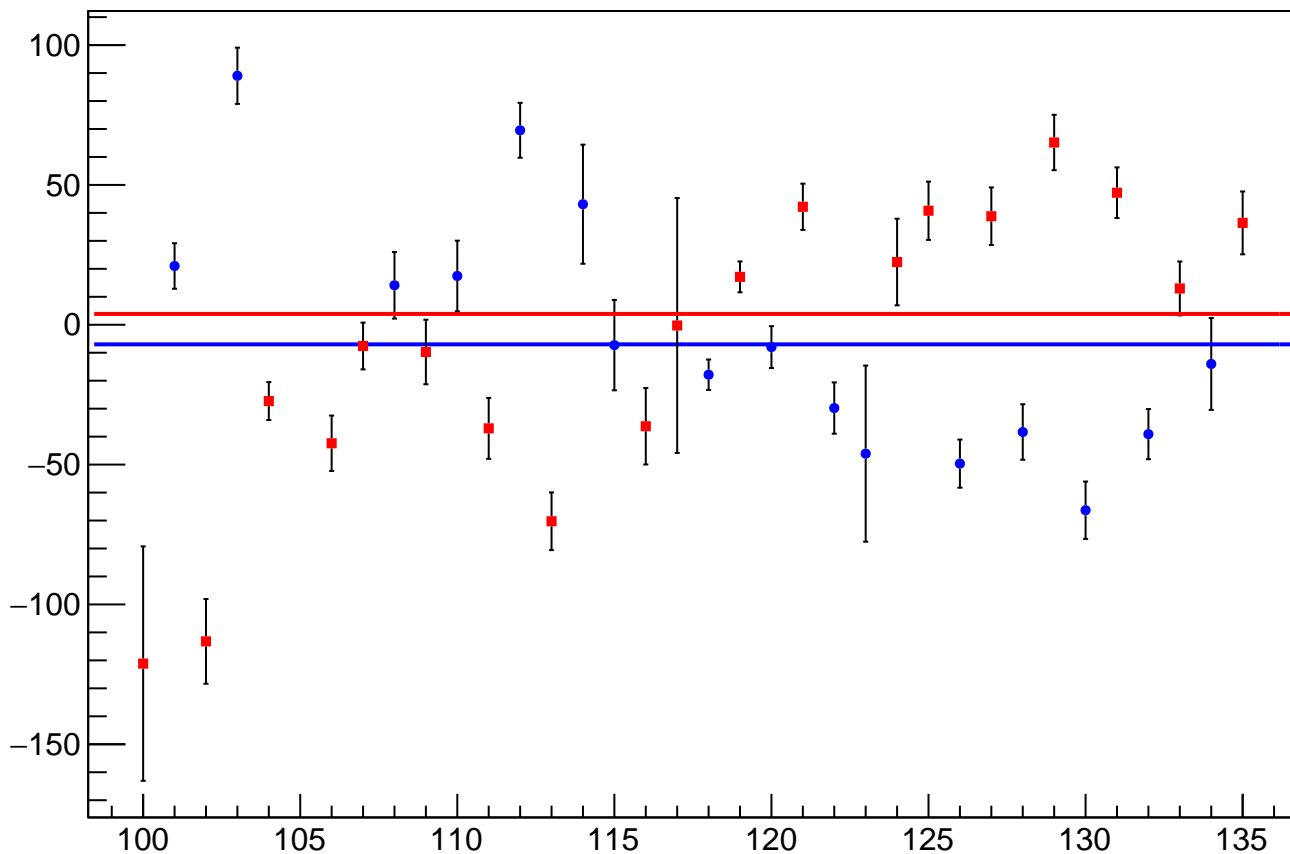
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-458.722 \pm 4.096$   $\chi^2/\text{NDF}: 1073.8/15$

$43.412 \pm 2.749$   $\chi^2/\text{NDF}: 30120.2/34$

$454.852 \pm 3.707$   $\chi^2/\text{NDF}: 1697.9/18$

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.004 \pm 2.435$   $\chi^2/\text{NDF}: 268.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $3.872 \pm 2.272$   $\chi^2/\text{NDF}: 312.4/18$

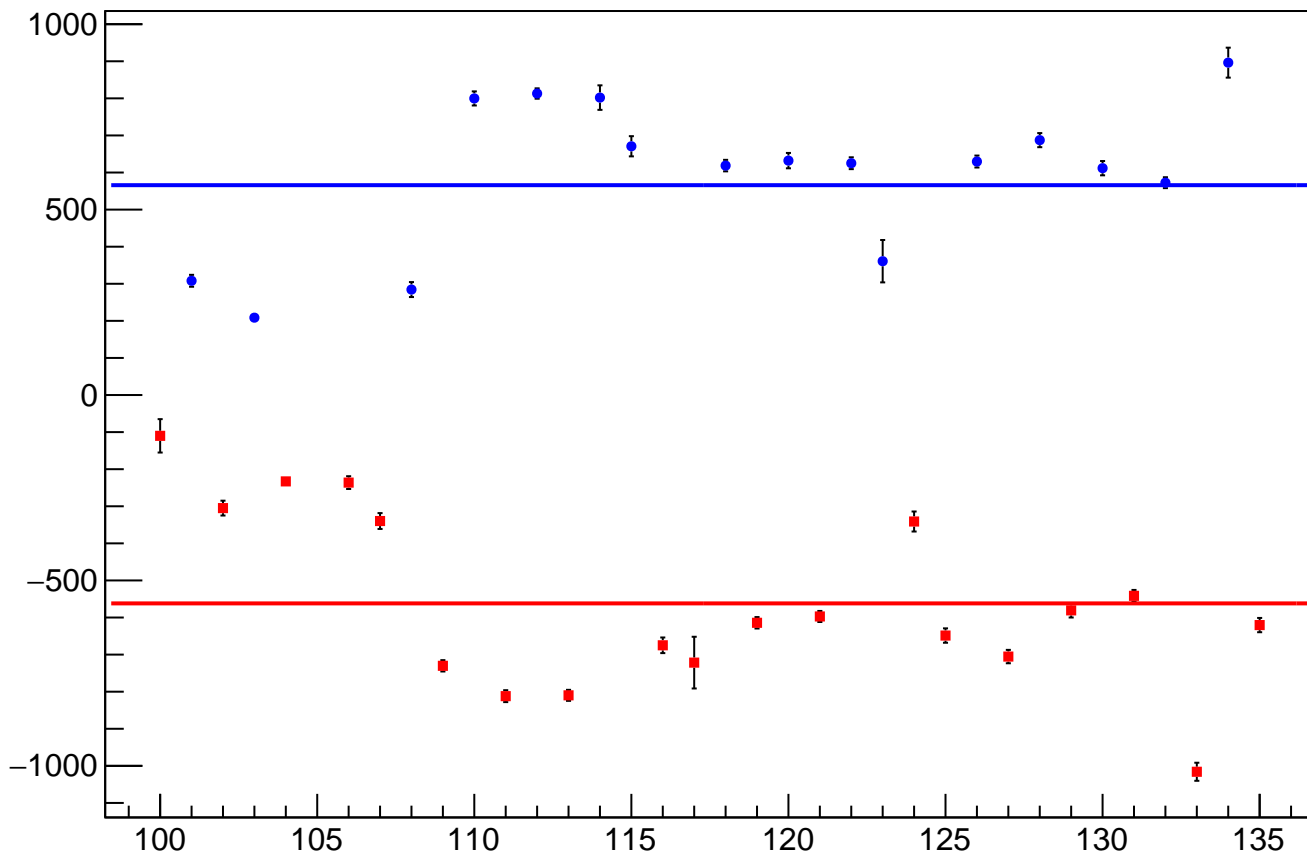
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-7.004 \pm 2.435$   $\chi^2/\text{NDF}: 268.9/15$

$-1.191 \pm 1.661$   $\chi^2/\text{NDF}: 592.0/34$

$3.872 \pm 2.272$   $\chi^2/\text{NDF}: 312.4/18$

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $565.890 \pm 4.587$   $\chi^2/\text{NDF}$ : 1896.5/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-561.896 \pm 4.169$   $\chi^2/\text{NDF}$ : 2687.6/18

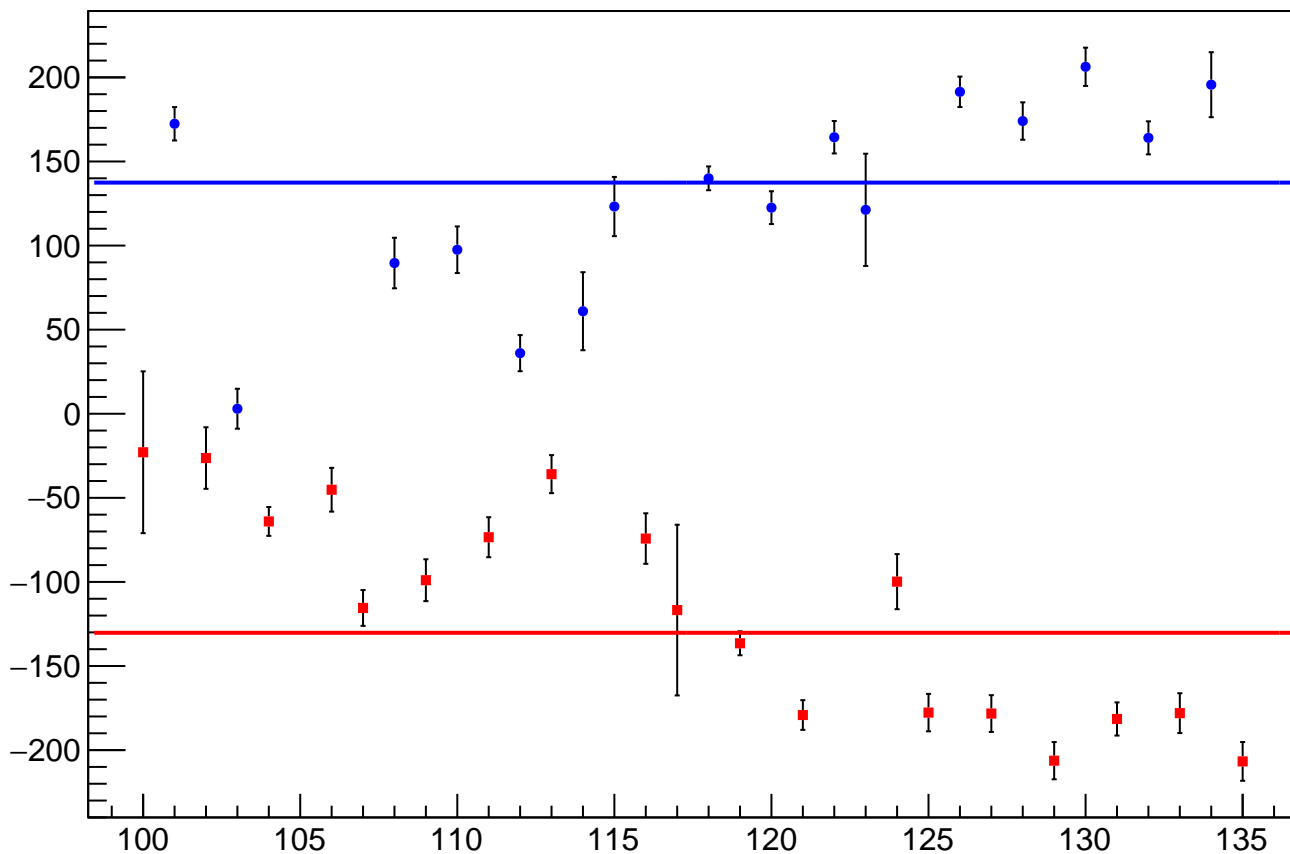
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$565.890 \pm 4.587$   $\chi^2/\text{NDF}$ : 1896.5/15

$-51.681 \pm 3.085$   $\chi^2/\text{NDF}$ : 37683.7/34

$-561.896 \pm 4.169$   $\chi^2/\text{NDF}$ : 2687.6/18

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 137.445+/-2.843  $\chi^2$ /NDF: 369.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -130.246+/-2.637  $\chi^2$ /NDF: 461.0/18

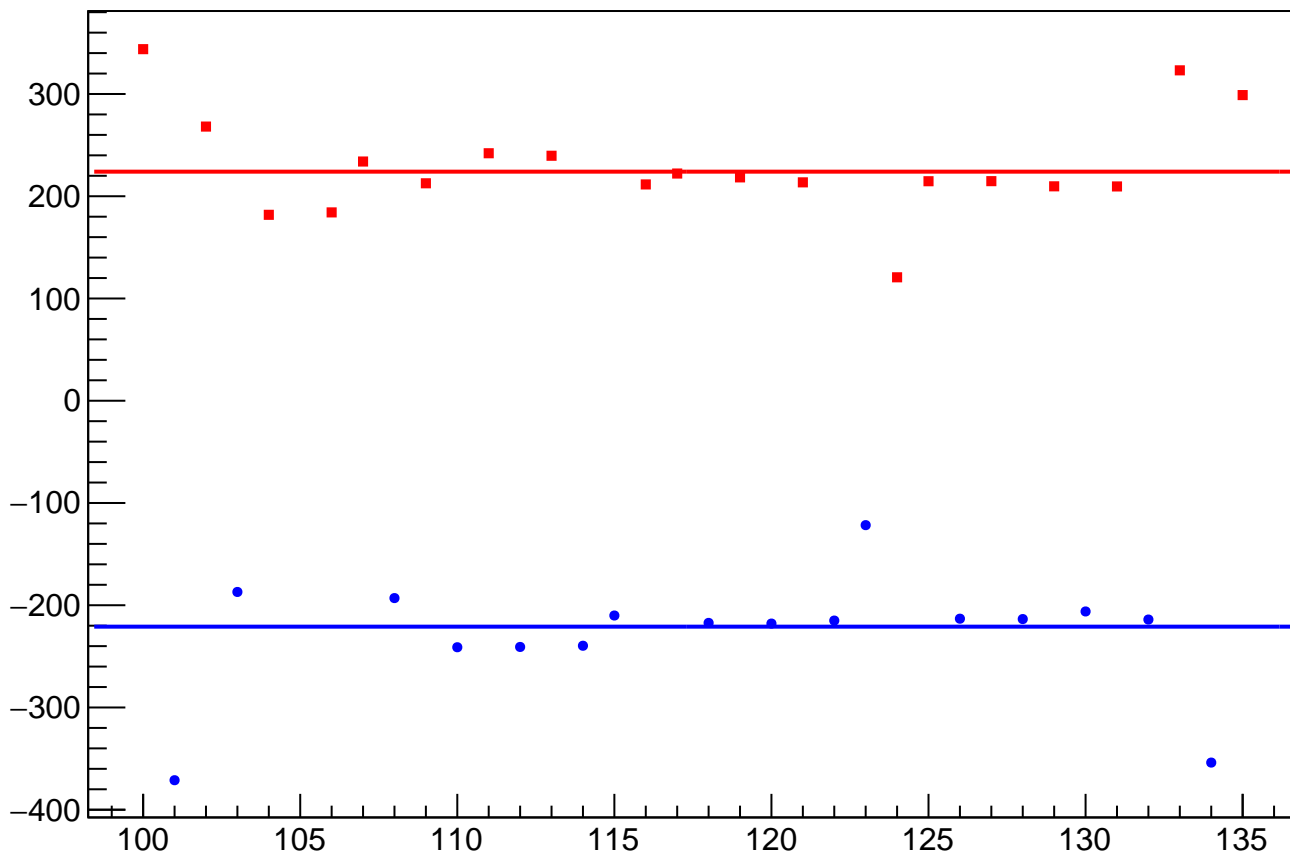
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

137.445+/-2.843  $\chi^2$ /NDF: 369.8/15

-6.421+/-1.933  $\chi^2$ /NDF: 5596.6/34

-130.246+/-2.637  $\chi^2$ /NDF: 461.0/18

# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-220.947 \pm 0.163$   $\chi^2/\text{NDF}: 102415.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $224.043 \pm 0.144$   $\chi^2/\text{NDF}: 89133.1/18$

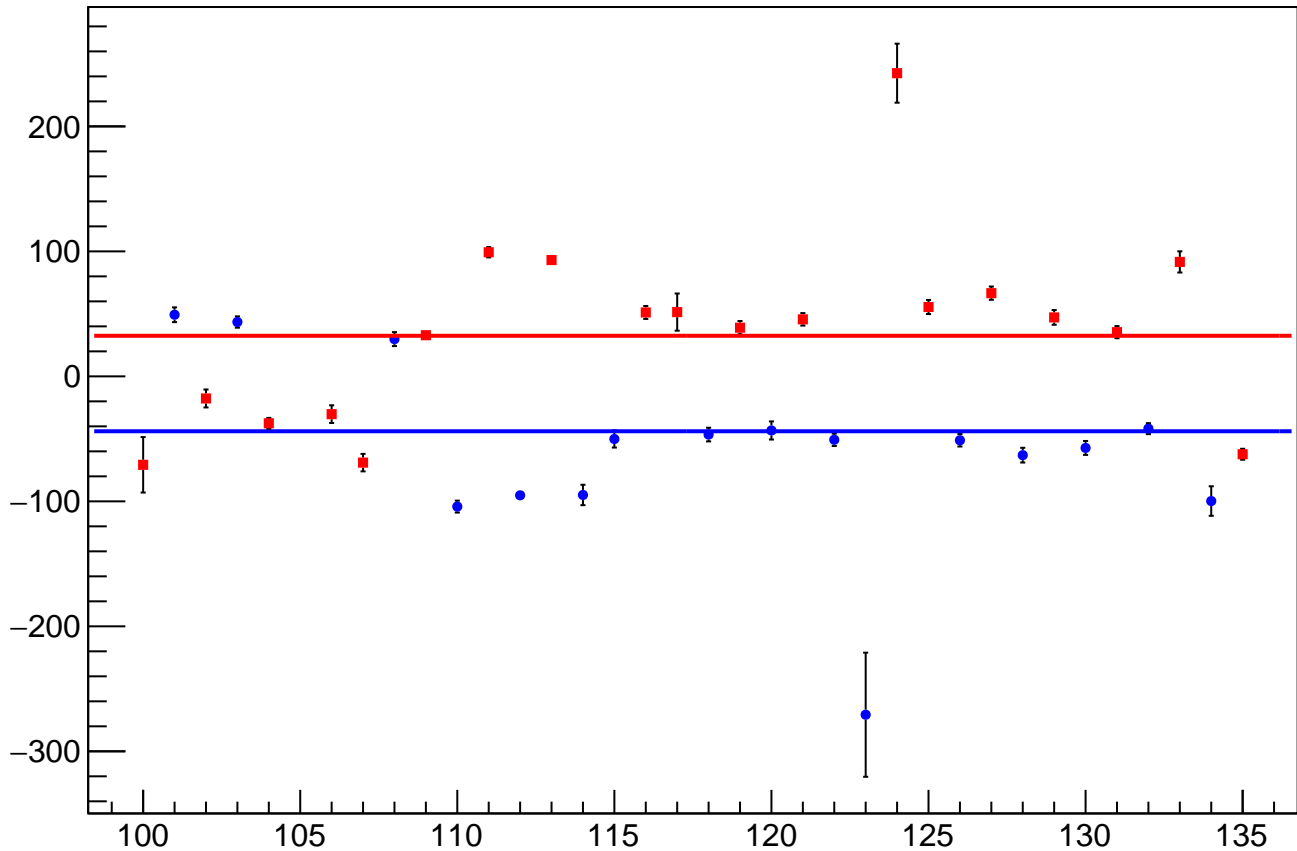
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-220.947 \pm 0.163$   $\chi^2/\text{NDF}: 102415.4/15$

$29.458 \pm 0.108$   $\chi^2/\text{NDF}: 4393387.2/34$

$224.043 \pm 0.144$   $\chi^2/\text{NDF}: 89133.1/18$

# reg\_asym\_at2\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-43.924 \pm 1.391$   $\chi^2/\text{NDF}: 1252.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $32.471 \pm 1.211$   $\chi^2/\text{NDF}: 1818.7/18$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

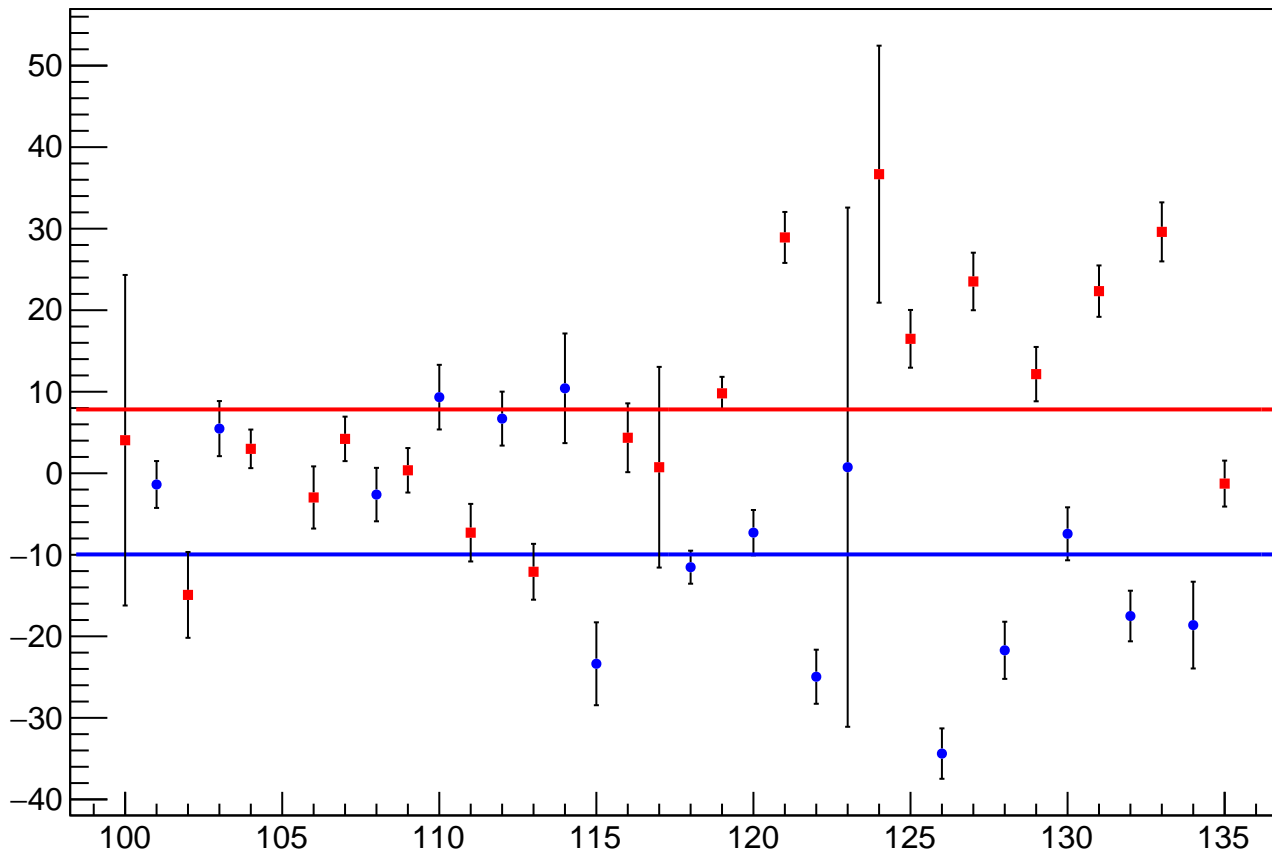
$-43.924 \pm 1.391$   $\chi^2/\text{NDF}: 1252.4/15$

$-0.470 \pm 0.913$   $\chi^2/\text{NDF}: 4787.1/34$

$32.471 \pm 1.211$   $\chi^2/\text{NDF}: 1818.7/18$



# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-9.955 \pm 0.844$   $\chi^2/\text{NDF}: 204.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $7.829 \pm 0.770$   $\chi^2/\text{NDF}: 238.4/18$

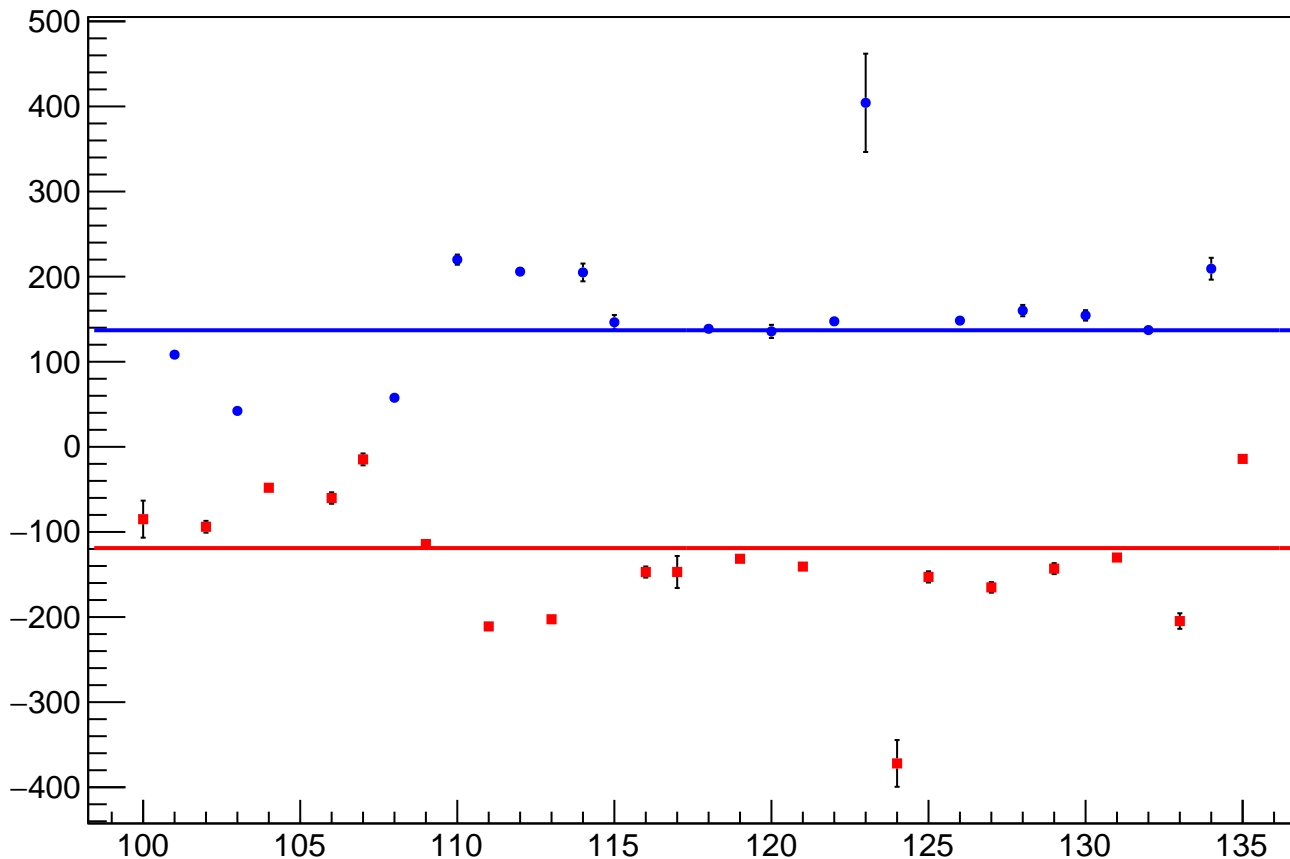
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-9.955 \pm 0.844$   $\chi^2/\text{NDF}: 204.9/15$

$-0.245 \pm 0.569$   $\chi^2/\text{NDF}: 685.5/34$

$7.829 \pm 0.770$   $\chi^2/\text{NDF}: 238.4/18$

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 136.987+/-1.558  $\chi^2$ /NDF: 1229.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -118.938+/-1.382  $\chi^2$ /NDF: 1993.5/18

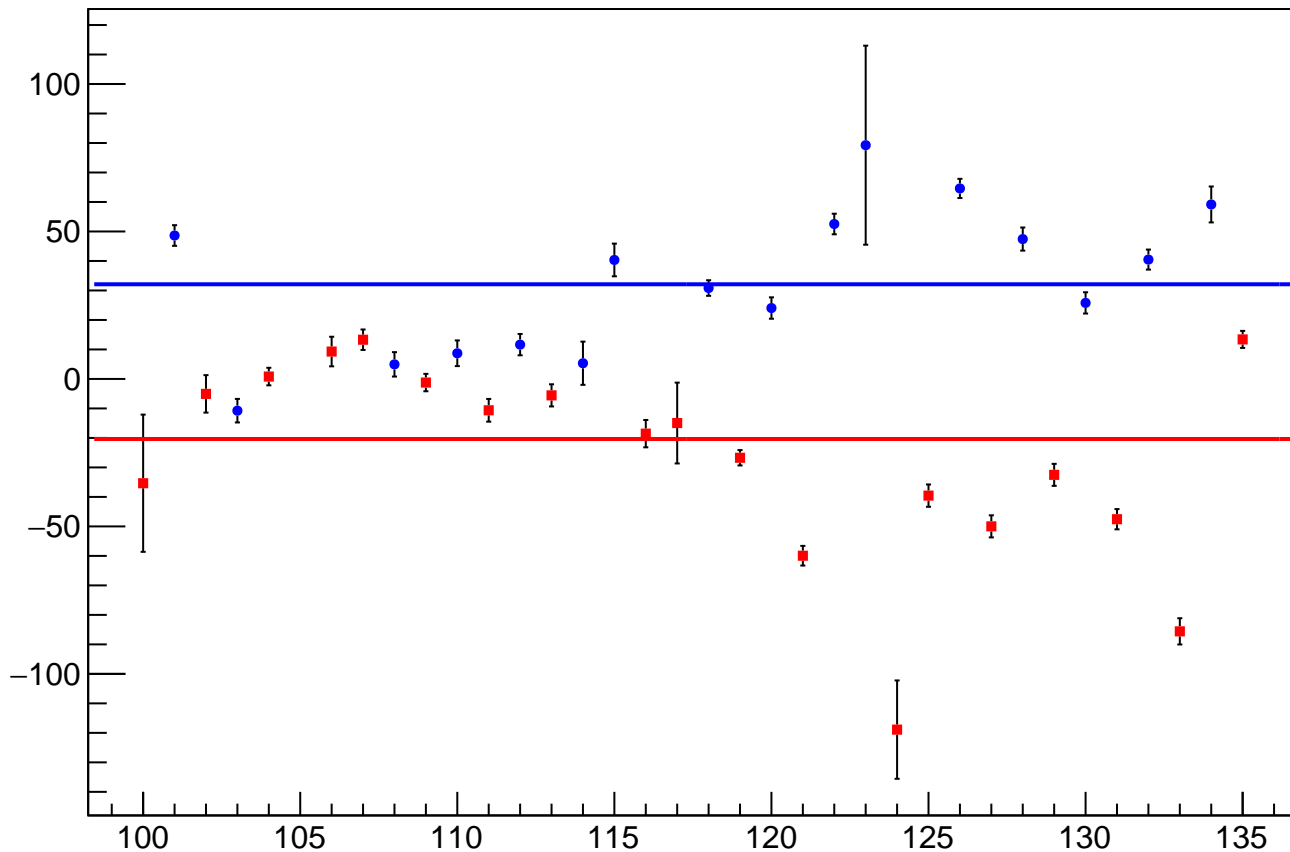
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

136.987+/-1.558  $\chi^2$ /NDF: 1229.5/15

-6.229+/-1.034  $\chi^2$ /NDF: 18325.5/34

-118.938+/-1.382  $\chi^2$ /NDF: 1993.5/18

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 32.099+/-0.983  $\chi^2$ /NDF: 442.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -20.357+/-0.885  $\chi^2$ /NDF: 944.9/18

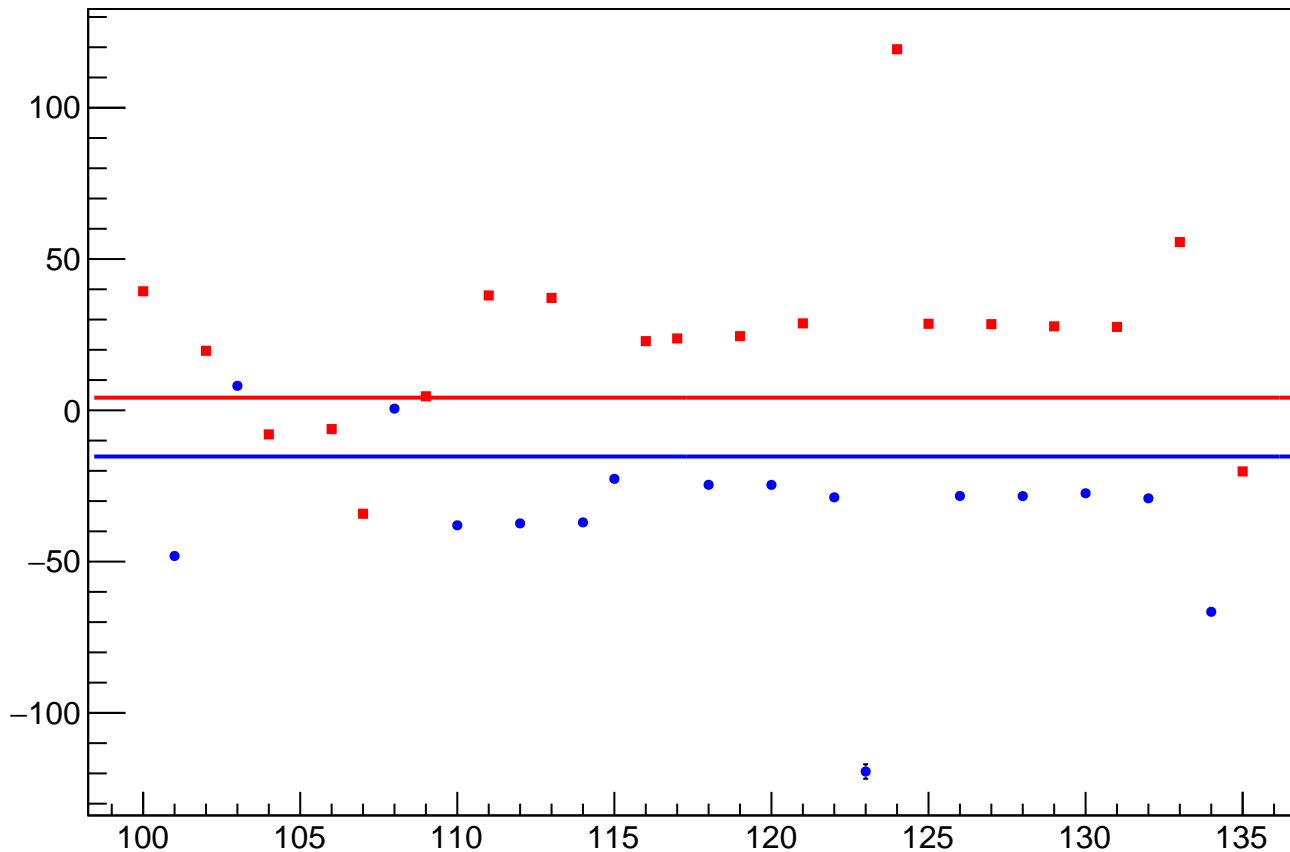
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

32.099+/-0.983  $\chi^2$ /NDF: 442.6/15

3.141+/-0.658  $\chi^2$ /NDF: 2960.5/34

-20.357+/-0.885  $\chi^2$ /NDF: 944.9/18

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-15.273 \pm 0.054$   $\chi^2/\text{NDF}: 158330.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $4.187 \pm 0.047$   $\chi^2/\text{NDF}: 252539.0/18$

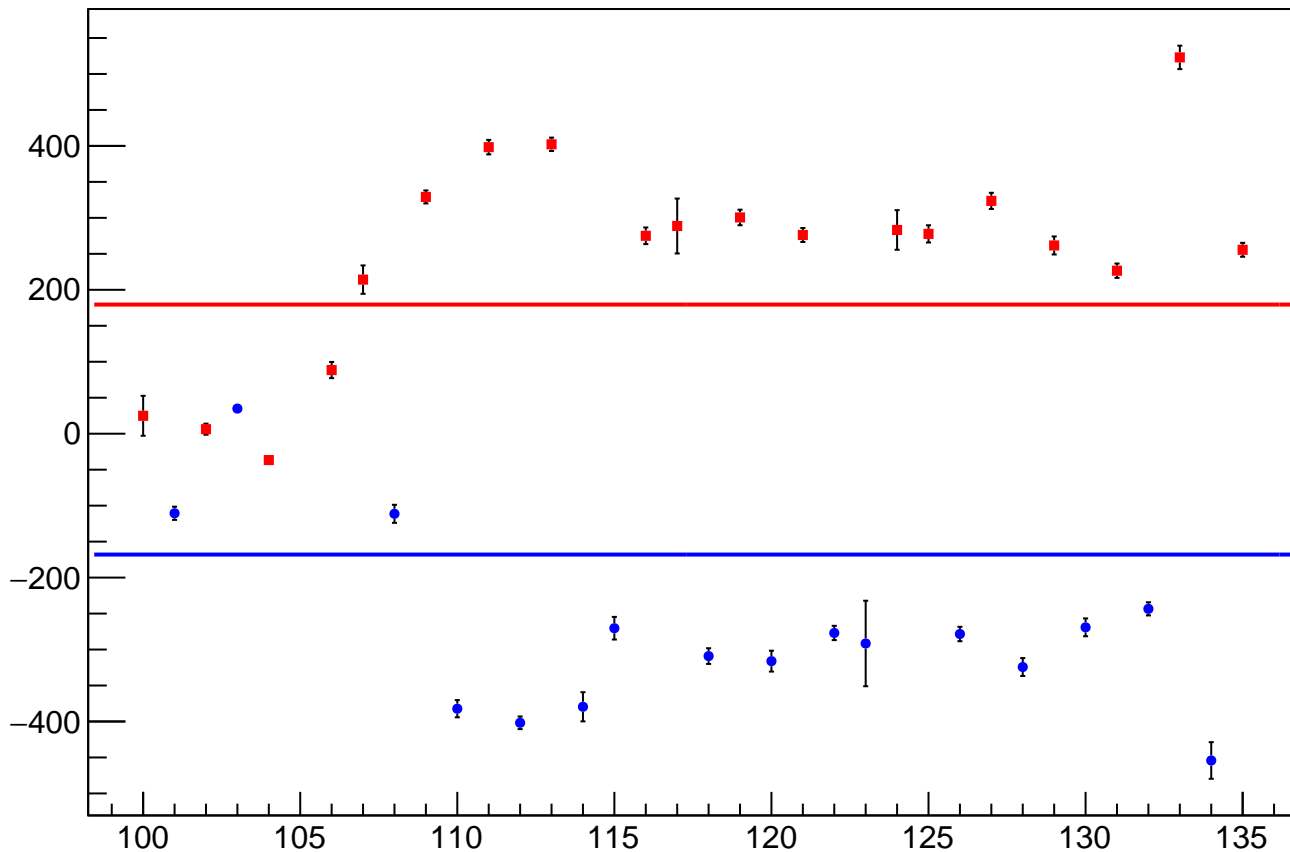
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-15.273 \pm 0.054$   $\chi^2/\text{NDF}: 158330.2/15$

$-4.241 \pm 0.035$   $\chi^2/\text{NDF}: 485115.6/34$

$4.187 \pm 0.047$   $\chi^2/\text{NDF}: 252539.0/18$

reg\_asym\_atl1r2\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: -167.983+/-2.488  $\chi^2$ /NDF: 4525.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 179.492+/-2.317  $\chi^2$ /NDF: 5360.8/18

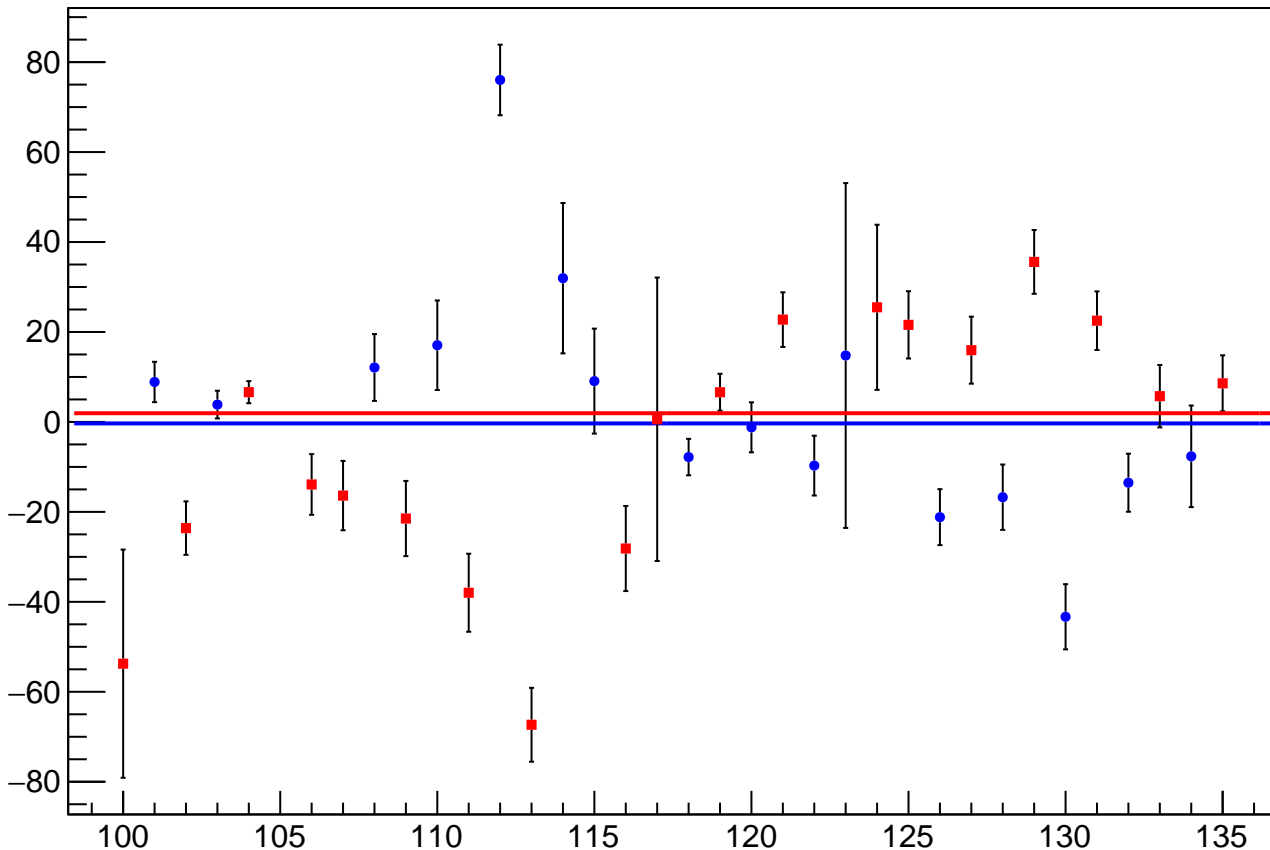
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-167.983+/-2.488  $\chi^2$ /NDF: 4525.1/15

18.073+/-1.695  $\chi^2$ /NDF: 20333.6/34

179.492+/-2.317  $\chi^2$ /NDF: 5360.8/18

reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.332+/-1.538  $\chi^2$ /NDF: 172.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.937+/-1.408  $\chi^2$ /NDF: 207.4/18

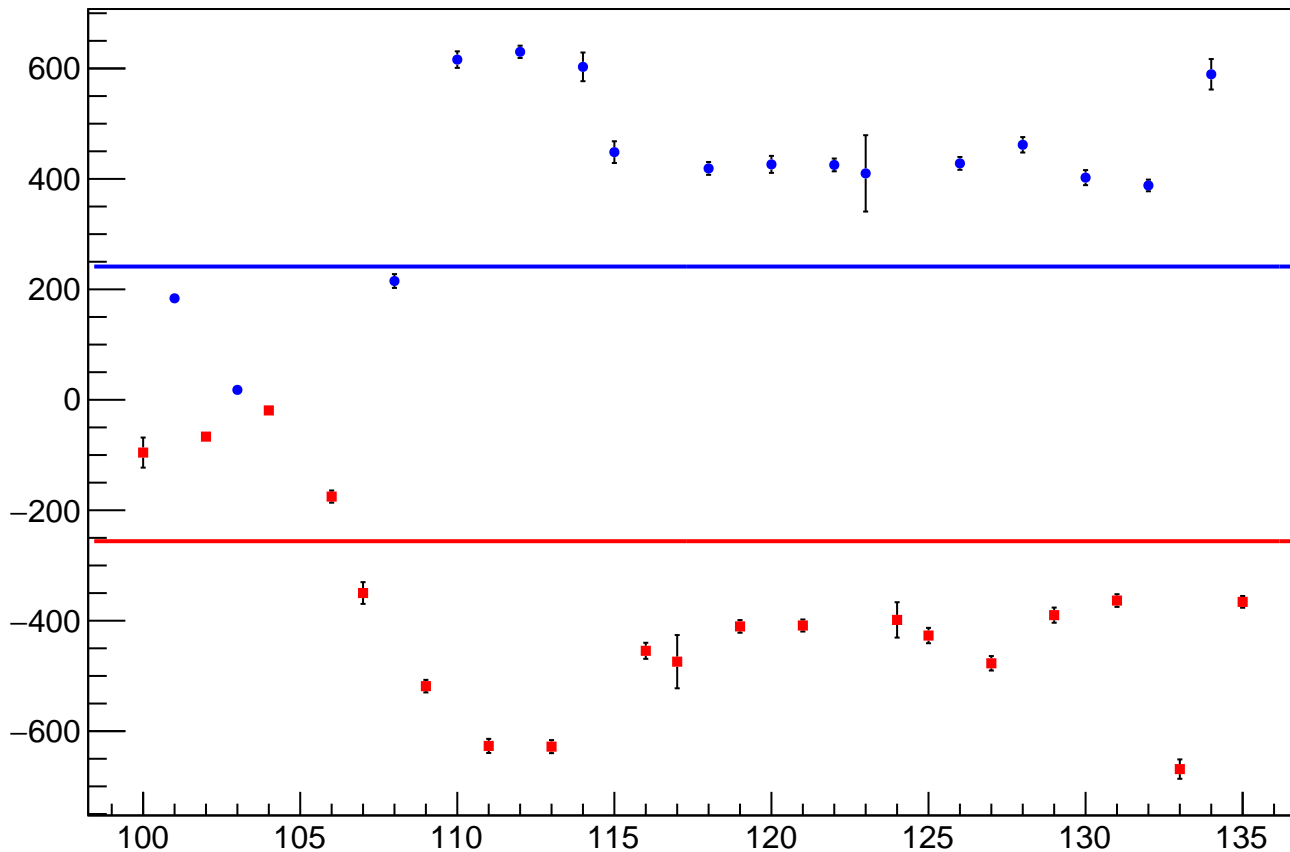
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.332+/-1.538  $\chi^2$ /NDF: 172.7/15

0.902+/-1.039  $\chi^2$ /NDF: 381.3/34

1.937+/-1.408  $\chi^2$ /NDF: 207.4/18

reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 241.312+/-2.635  $\chi^2$ /NDF: 6864.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -256.035+/-2.483  $\chi^2$ /NDF: 7969.1/18

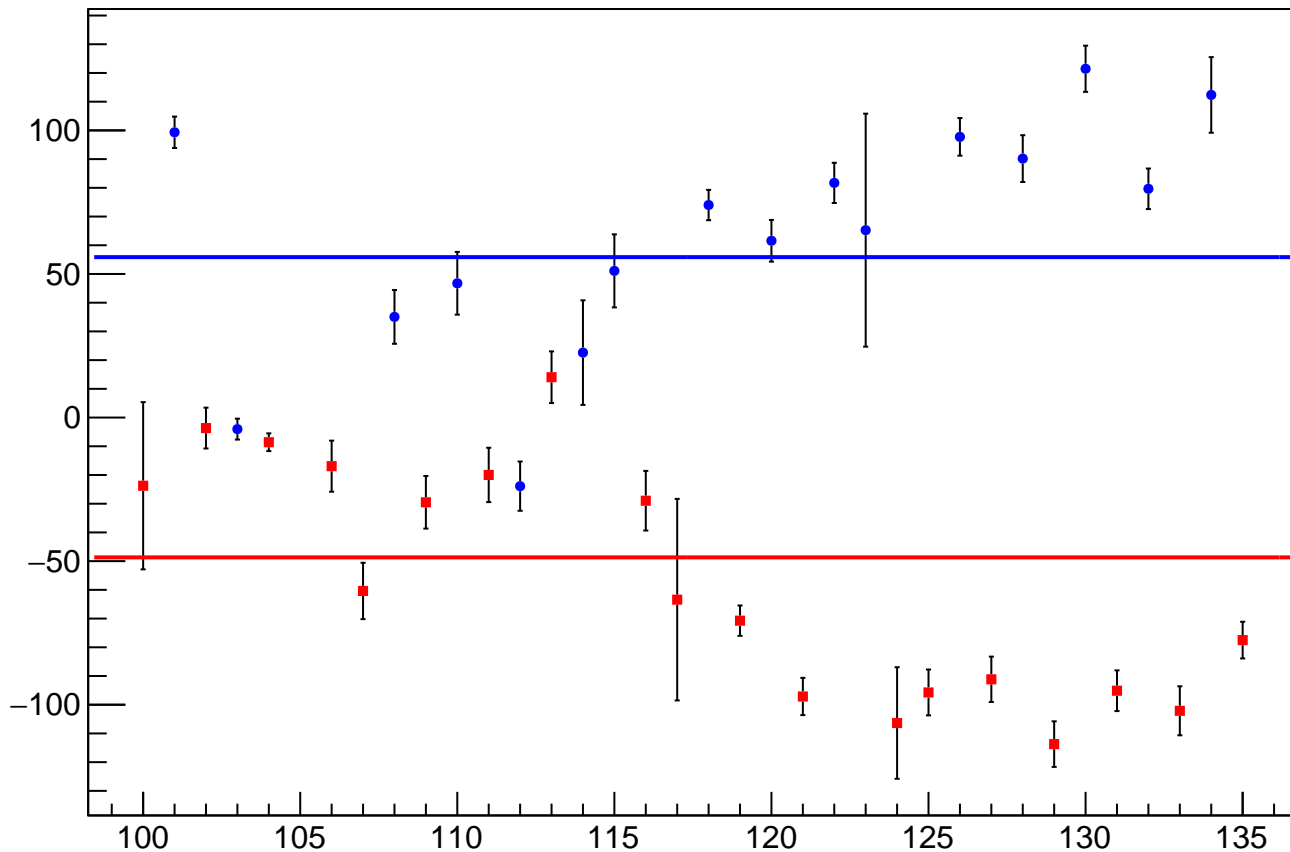
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

241.312+/-2.635  $\chi^2$ /NDF: 6864.3/15

-22.089+/-1.807  $\chi^2$ /NDF: 33703.1/34

-256.035+/-2.483  $\chi^2$ /NDF: 7969.1/18

reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 55.867+/-1.805  $\chi^2$ /NDF: 610.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -48.690+/-1.661  $\chi^2$ /NDF: 605.1/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

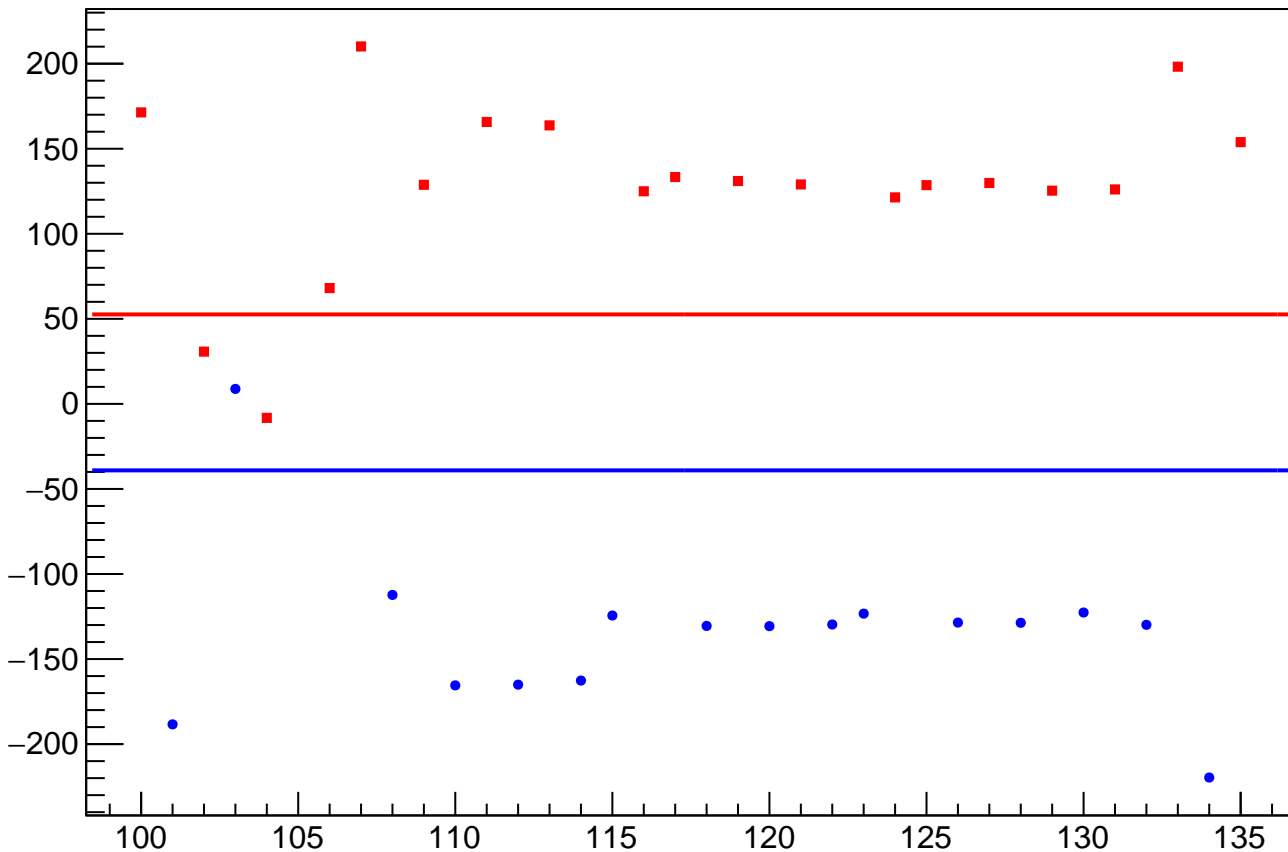
55.867+/-1.805  $\chi^2$ /NDF: 610.8/15

-0.743+/-1.222  $\chi^2$ /NDF: 3033.0/34

-48.690+/-1.661  $\chi^2$ /NDF: 605.1/18



reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-39.083 \pm 0.075$   $\chi^2/\text{NDF}: 929515.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $52.599 \pm 0.073$   $\chi^2/\text{NDF}: 911724.5/18$

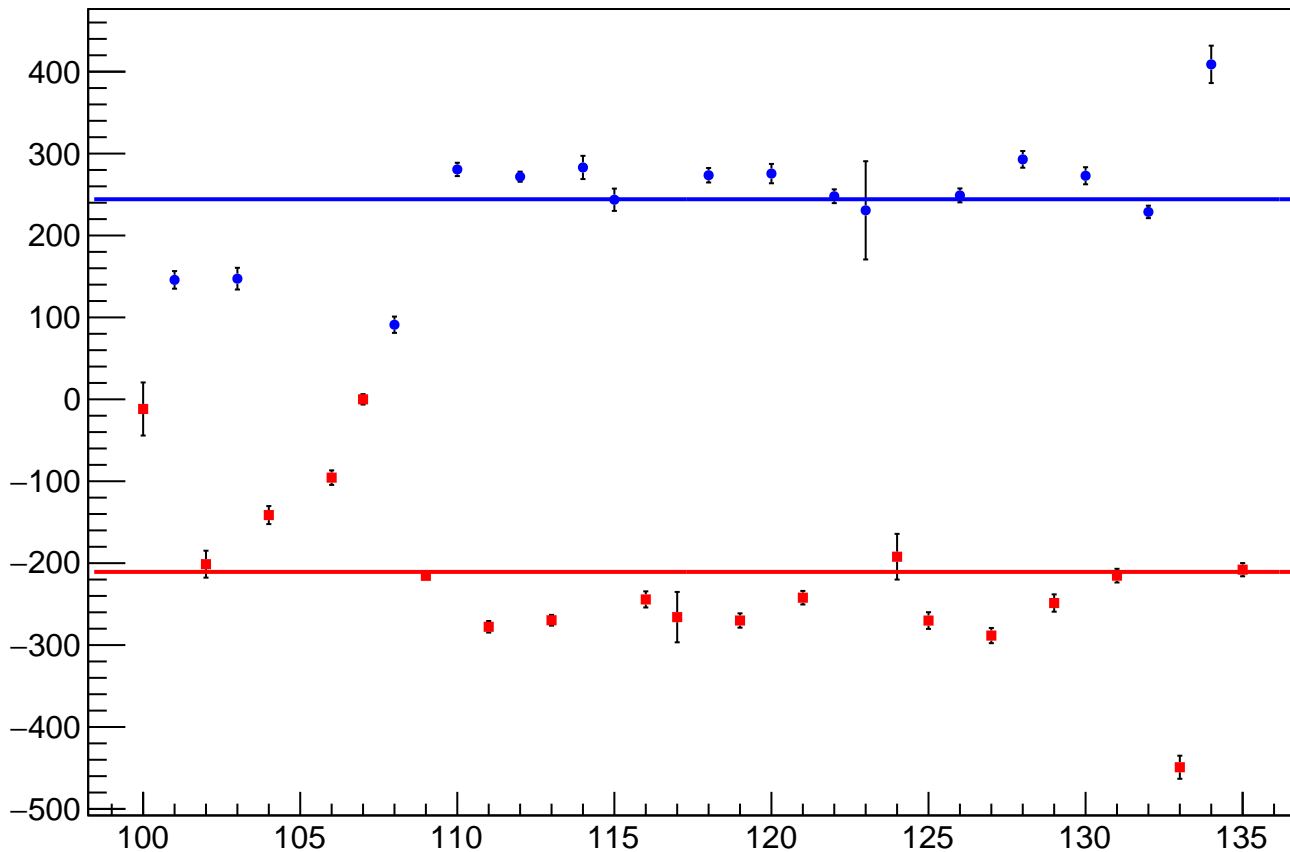
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-39.083 \pm 0.075$   $\chi^2/\text{NDF}: 929515.0/15$

$8.103 \pm 0.052$   $\chi^2/\text{NDF}: 2608667.7/34$

$52.599 \pm 0.073$   $\chi^2/\text{NDF}: 911724.5/18$

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $244.244 \pm 2.484$   $\chi^2/\text{NDF}: 526.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-210.671 \pm 2.086$   $\chi^2/\text{NDF}: 2005.1/18$

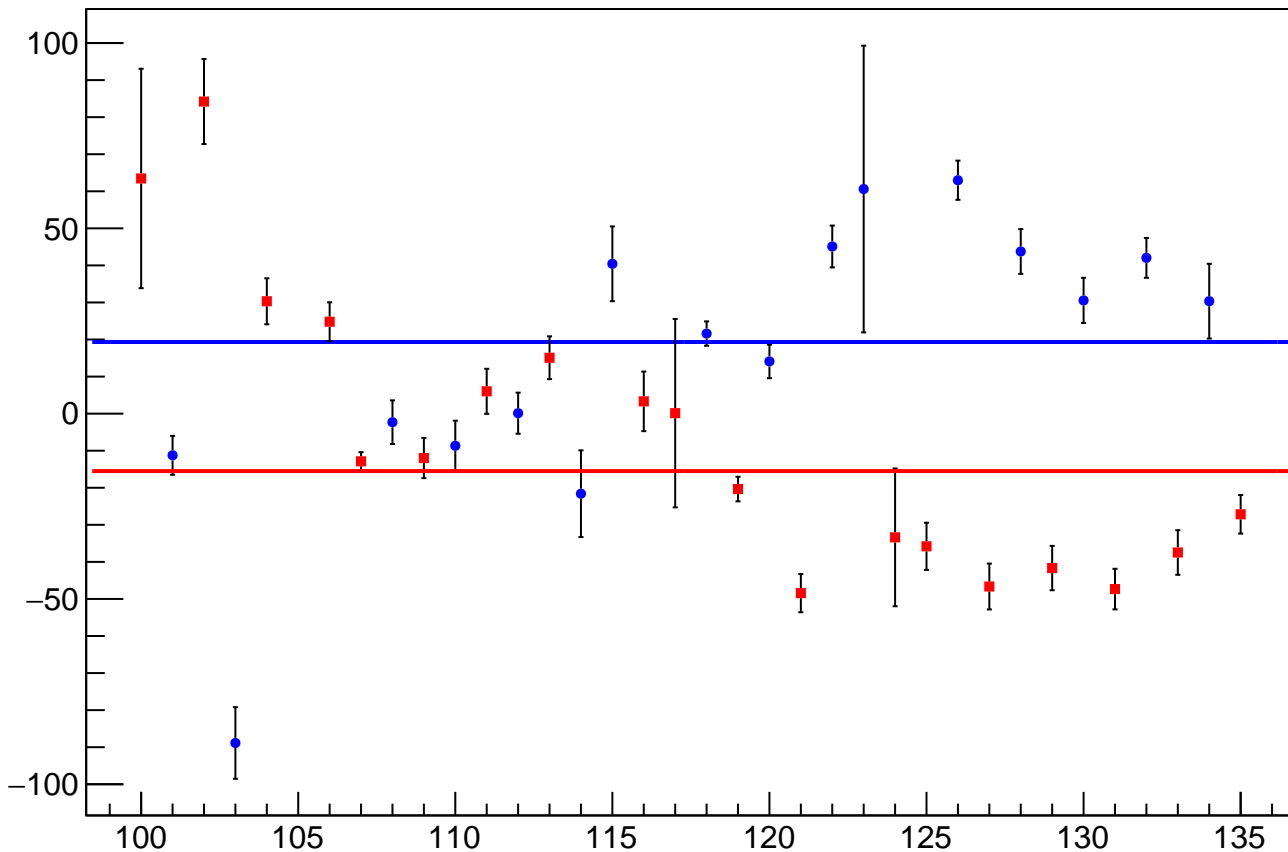
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$244.244 \pm 2.484$   $\chi^2/\text{NDF}: 526.5/15$

$-22.603 \pm 1.597$   $\chi^2/\text{NDF}: 22202.1/34$

$-210.671 \pm 2.086$   $\chi^2/\text{NDF}: 2005.1/18$

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $19.332 \pm 1.482$   $\chi^2/\text{NDF}: 349.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-15.500 \pm 1.239$   $\chi^2/\text{NDF}: 395.4/18$

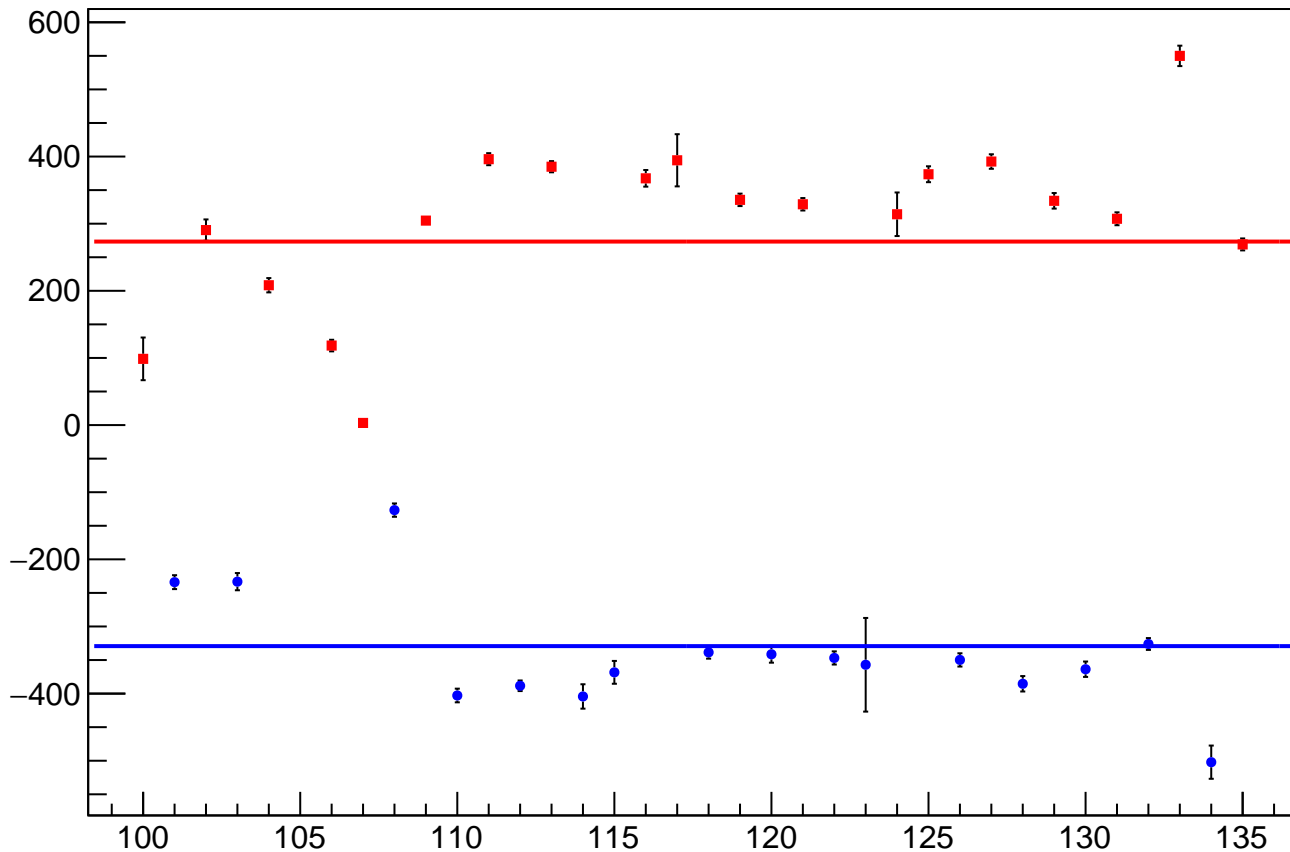
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$19.332 \pm 1.482$   $\chi^2/\text{NDF}: 349.4/15$

$-1.169 \pm 0.950$   $\chi^2/\text{NDF}: 1070.1/34$

$-15.500 \pm 1.239$   $\chi^2/\text{NDF}: 395.4/18$

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-329.264 \pm 2.818$   $\chi^2/\text{NDF}: 779.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $273.355 \pm 2.355$   $\chi^2/\text{NDF}: 3319.4/18$

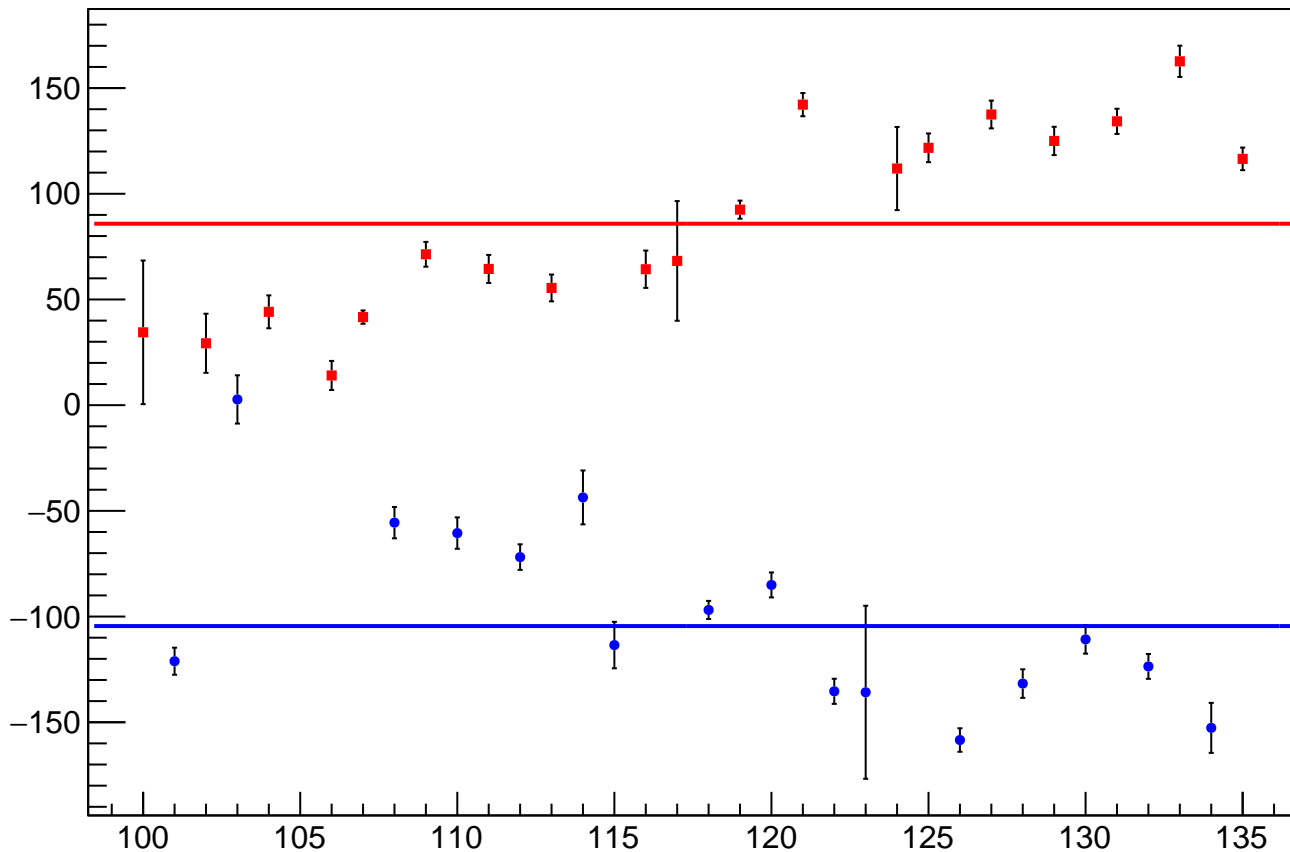
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-329.264 \pm 2.818$   $\chi^2/\text{NDF}: 779.2/15$

$25.531 \pm 1.807$   $\chi^2/\text{NDF}: 31022.6/34$

$273.355 \pm 2.355$   $\chi^2/\text{NDF}: 3319.4/18$

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-104.502 \pm 1.729$   $\chi^2/\text{NDF}: 405.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $85.835 \pm 1.451$   $\chi^2/\text{NDF}: 840.3/18$

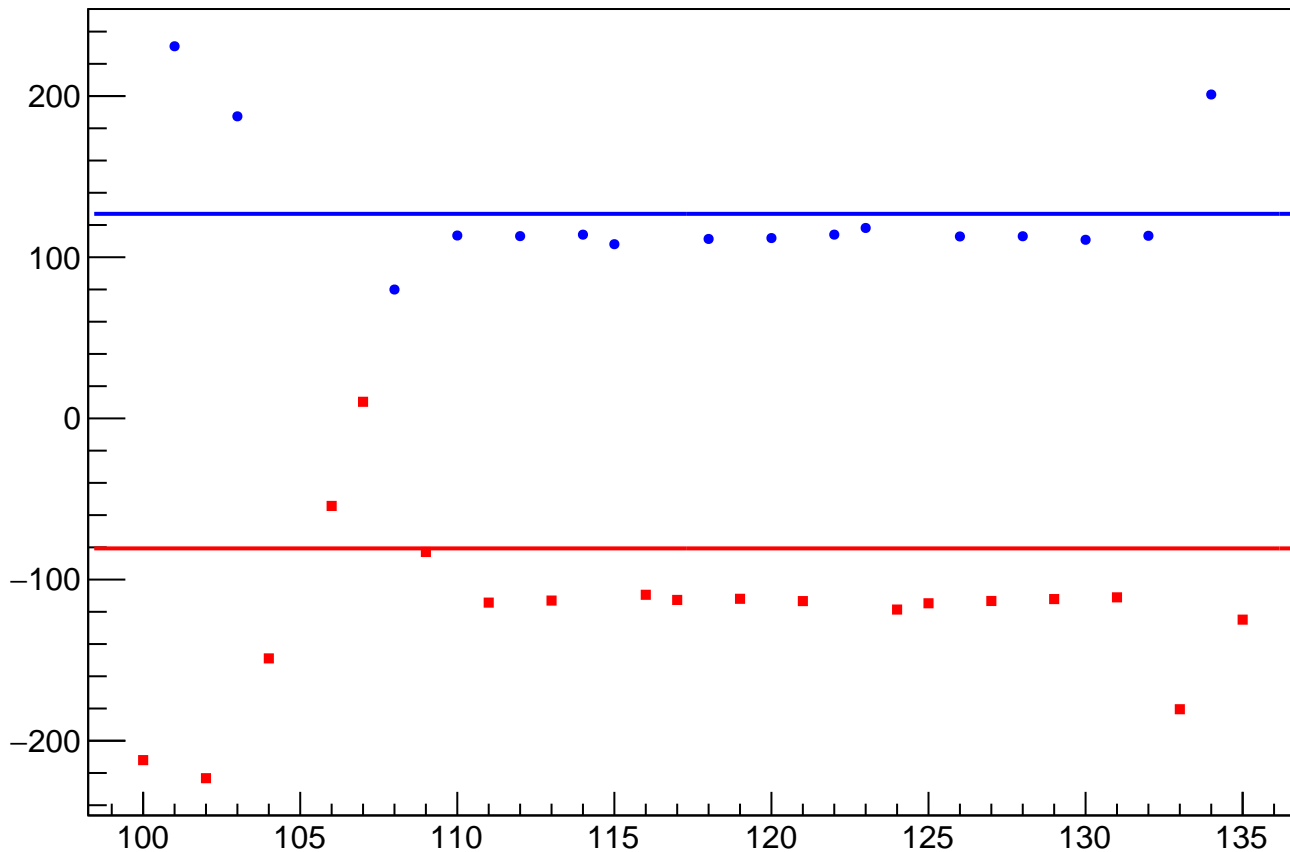
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-104.502 \pm 1.729$   $\chi^2/\text{NDF}: 405.9/15$

$7.191 \pm 1.112$   $\chi^2/\text{NDF}: 8354.5/34$

$85.835 \pm 1.451$   $\chi^2/\text{NDF}: 840.3/18$

reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 126.930+/-0.105  $\chi^2$ /NDF: 187724.5/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -80.654+/-0.077  $\chi^2$ /NDF: 749624.6/18

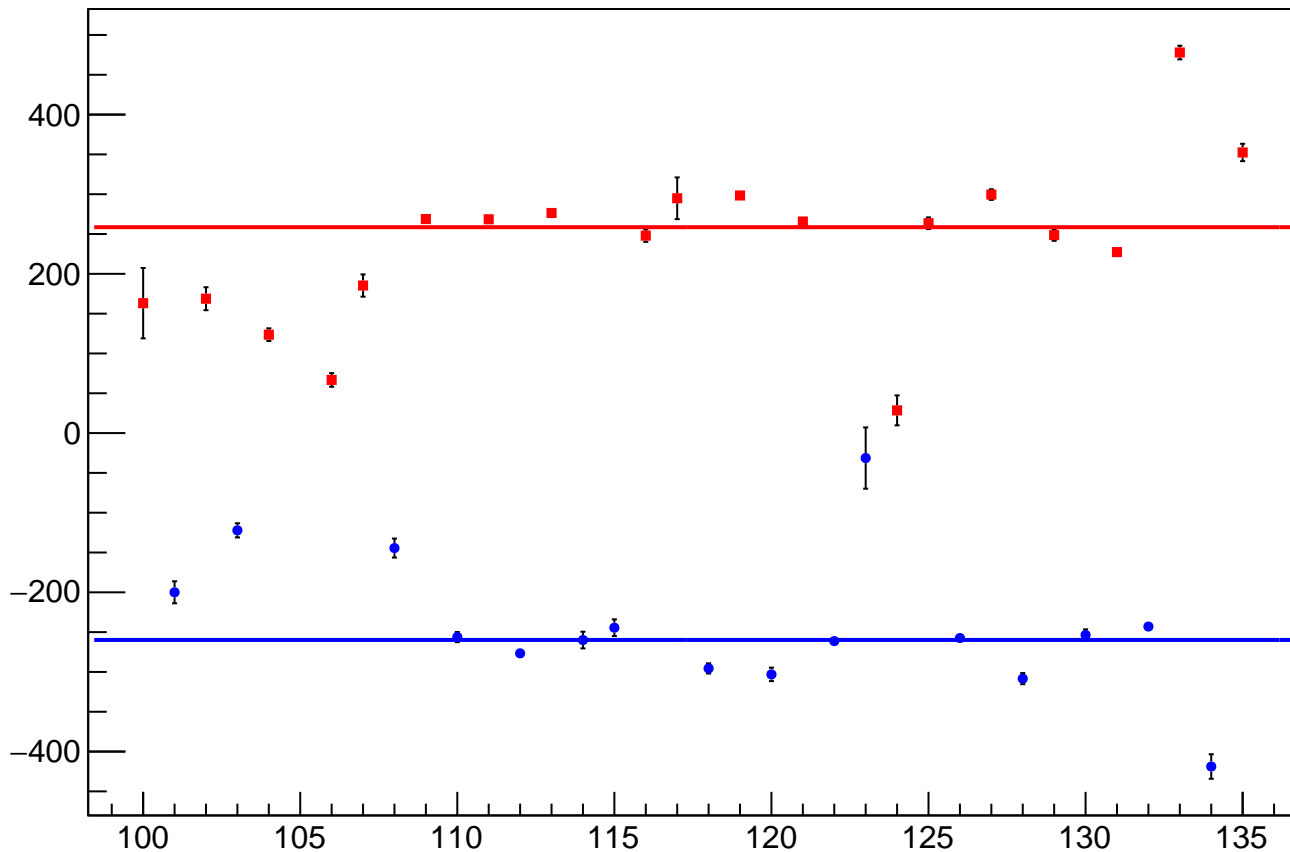
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

126.930+/-0.105  $\chi^2$ /NDF: 187724.5/15

-7.839+/-0.062  $\chi^2$ /NDF: 3488463.0/34

-80.654+/-0.077  $\chi^2$ /NDF: 749624.6/18

# reg\_asym\_atr112\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-259.801 \pm 1.881$   $\chi^2/\text{NDF}$ : 625.2/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $258.563 \pm 1.729$   $\chi^2/\text{NDF}$ : 1865.5/18

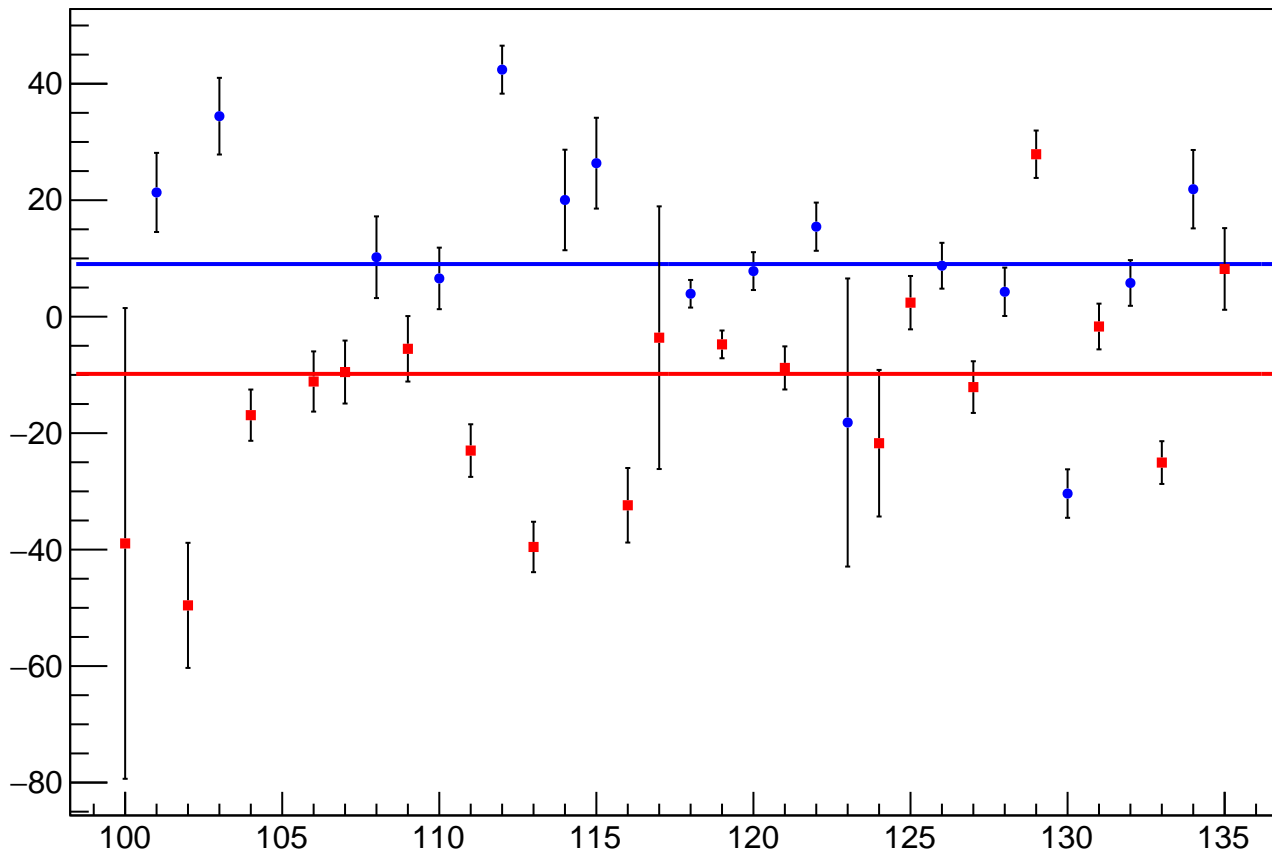
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-259.801 \pm 1.881$   $\chi^2/\text{NDF}$ : 625.2/15

$21.184 \pm 1.273$   $\chi^2/\text{NDF}$ : 43652.2/34

$258.563 \pm 1.729$   $\chi^2/\text{NDF}$ : 1865.5/18

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 9.035+/-1.126  $\chi^2$ /NDF: 194.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -9.825+/-1.074  $\chi^2$ /NDF: 212.4/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

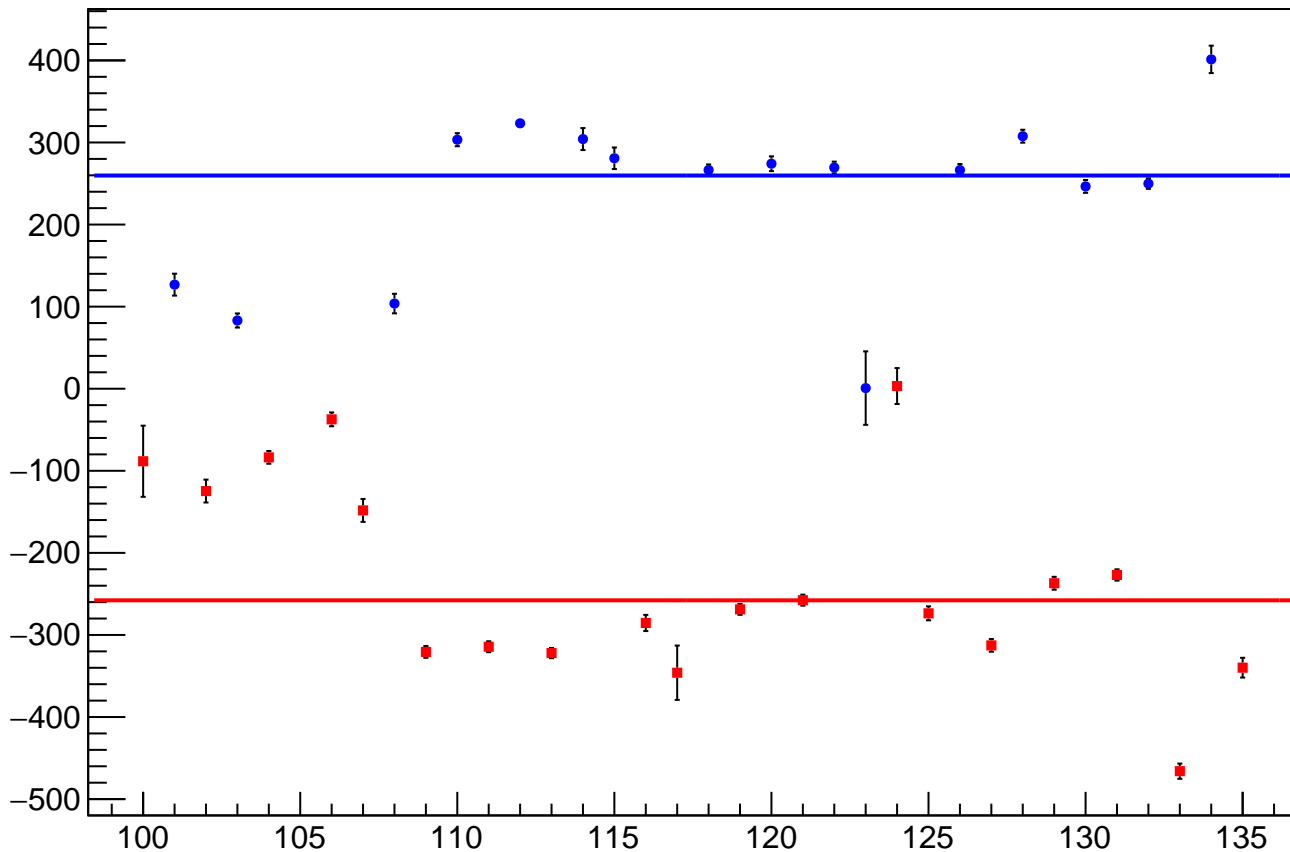
9.035+/-1.126  $\chi^2$ /NDF: 194.2/15

-0.835+/-0.777  $\chi^2$ /NDF: 553.6/34

-9.825+/-1.074  $\chi^2$ /NDF: 212.4/18



reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 259.733+/-2.154  $\chi^2$ /NDF: 1008.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -257.810+/-1.985  $\chi^2$ /NDF: 2406.7/18

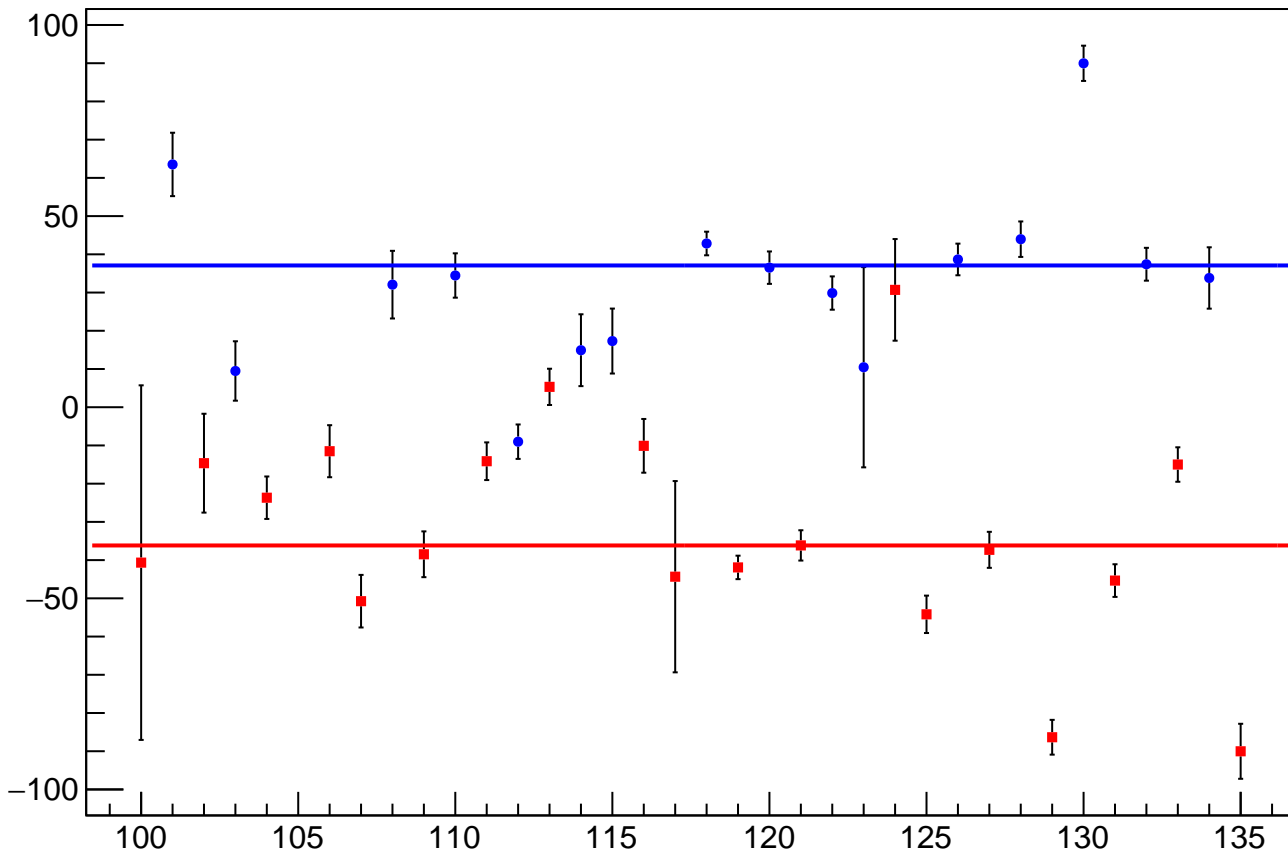
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

259.733+/-2.154  $\chi^2$ /NDF: 1008.0/15

-20.240+/-1.460  $\chi^2$ /NDF: 34632.8/34

-257.810+/-1.985  $\chi^2$ /NDF: 2406.7/18

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $37.087 \pm 1.309$   $\chi^2/\text{NDF}: 280.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-36.167 \pm 1.240$   $\chi^2/\text{NDF}: 382.7/18$

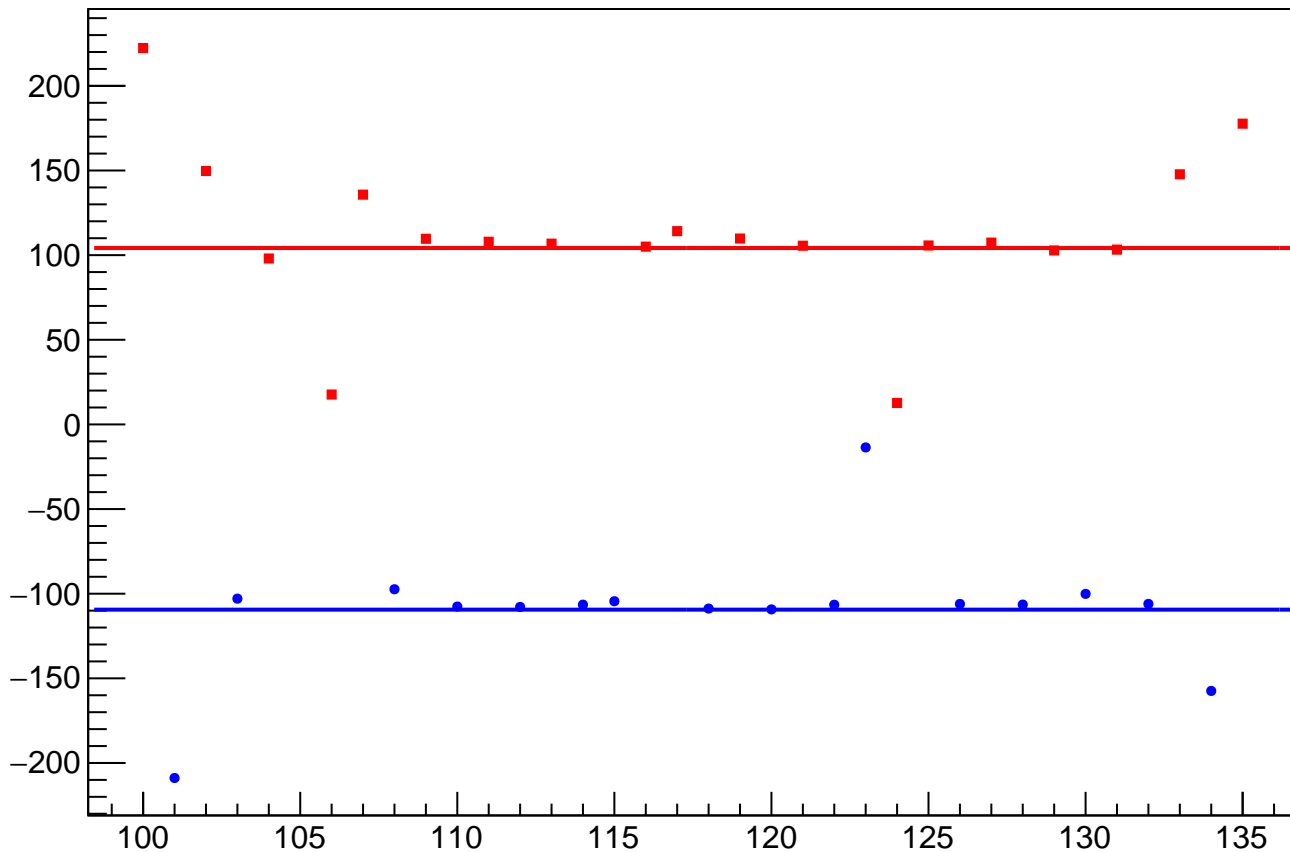
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$37.087 \pm 1.309$   $\chi^2/\text{NDF}: 280.3/15$

$-1.519 \pm 0.900$   $\chi^2/\text{NDF}: 2314.5/34$

$-36.167 \pm 1.240$   $\chi^2/\text{NDF}: 382.7/18$

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-109.415 \pm 0.084$   $\chi^2/\text{NDF}: 59751.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $104.209 \pm 0.074$   $\chi^2/\text{NDF}: 300284.9/18$

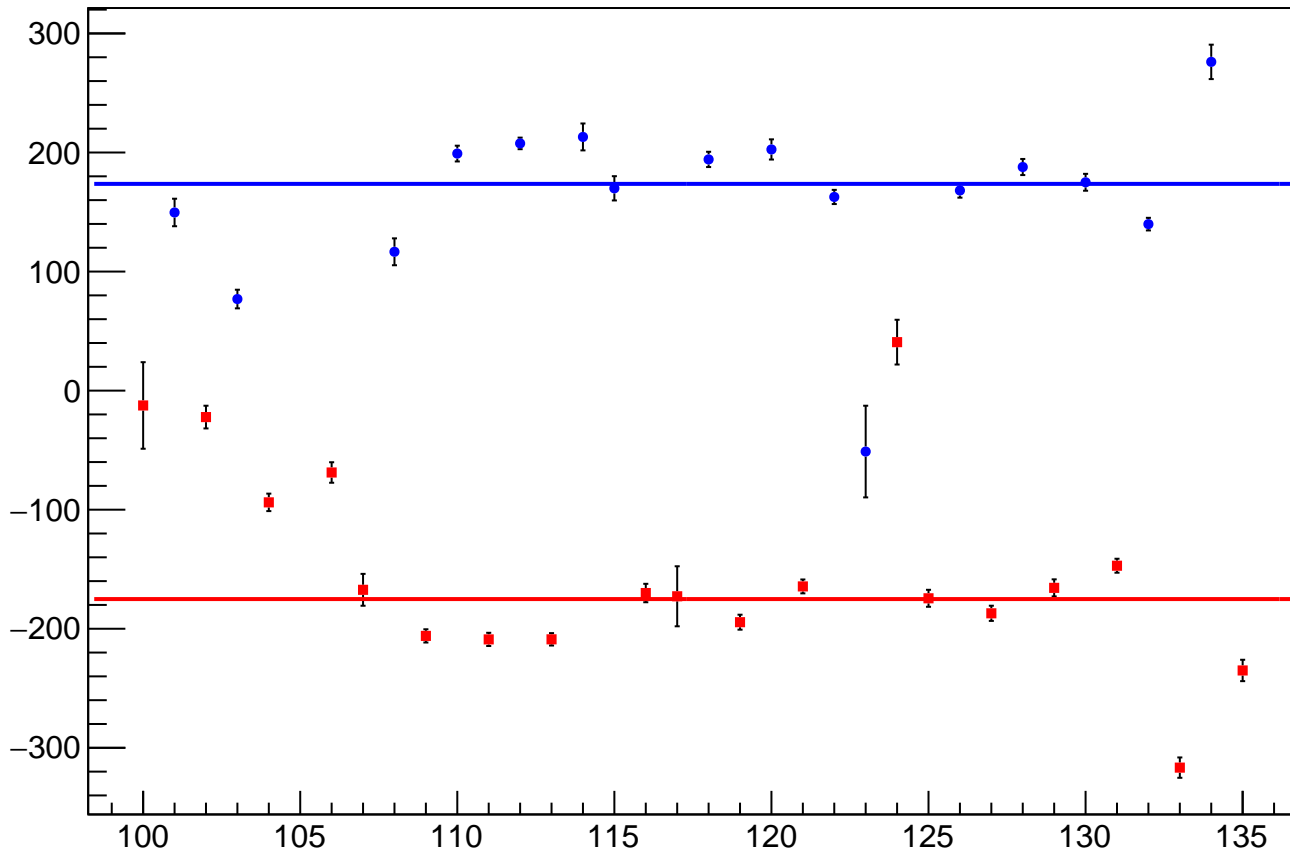
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-109.415 \pm 0.084$   $\chi^2/\text{NDF}: 59751.8/15$

$11.046 \pm 0.055$   $\chi^2/\text{NDF}: 4042855.7/34$

$104.209 \pm 0.074$   $\chi^2/\text{NDF}: 300284.9/18$

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 173.648+/-1.854  $\chi^2$ /NDF: 414.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -175.073+/-1.700  $\chi^2$ /NDF: 1154.8/18

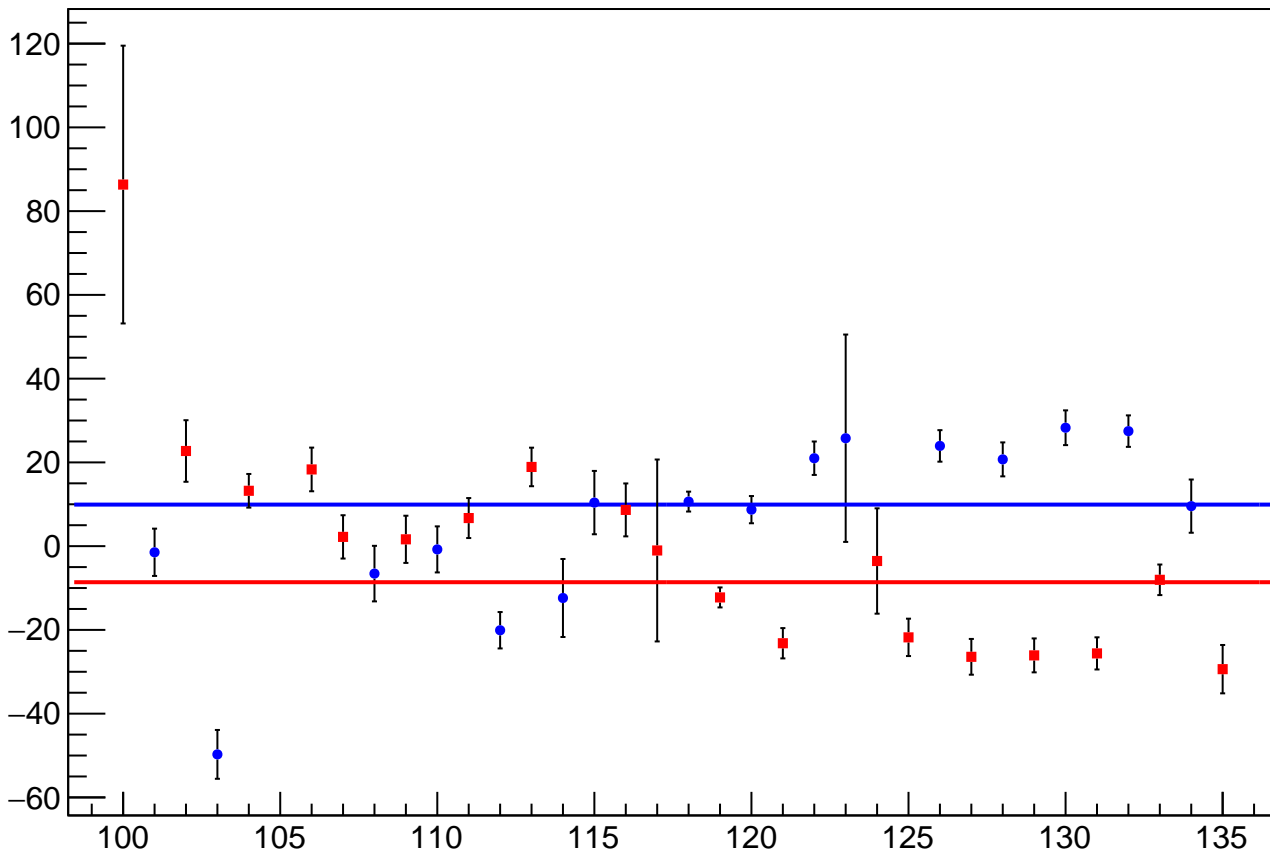
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

173.648+/-1.854  $\chi^2$ /NDF: 414.1/15

-15.791+/-1.253  $\chi^2$ /NDF: 20777.9/34

-175.073+/-1.700  $\chi^2$ /NDF: 1154.8/18

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 9.923+/-1.105  $\chi^2$ /NDF: 242.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -8.611+/-1.053  $\chi^2$ /NDF: 239.9/18

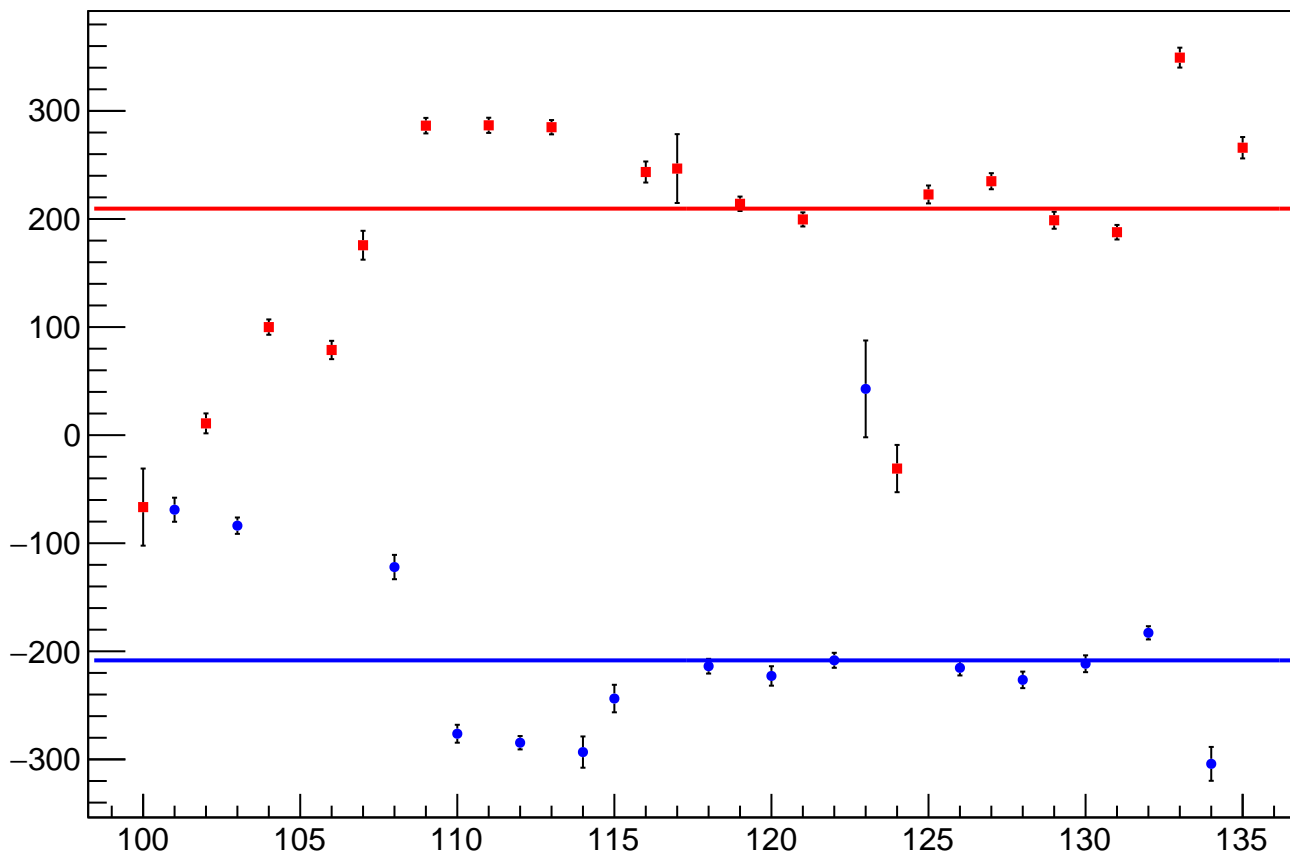
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

9.923+/-1.105  $\chi^2$ /NDF: 242.7/15

0.209+/-0.762  $\chi^2$ /NDF: 630.1/34

-8.611+/-1.053  $\chi^2$ /NDF: 239.9/18

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-208.401 \pm 2.110$   $\chi^2/\text{NDF}: 843.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $209.592 \pm 1.936$   $\chi^2/\text{NDF}: 1797.5/18$

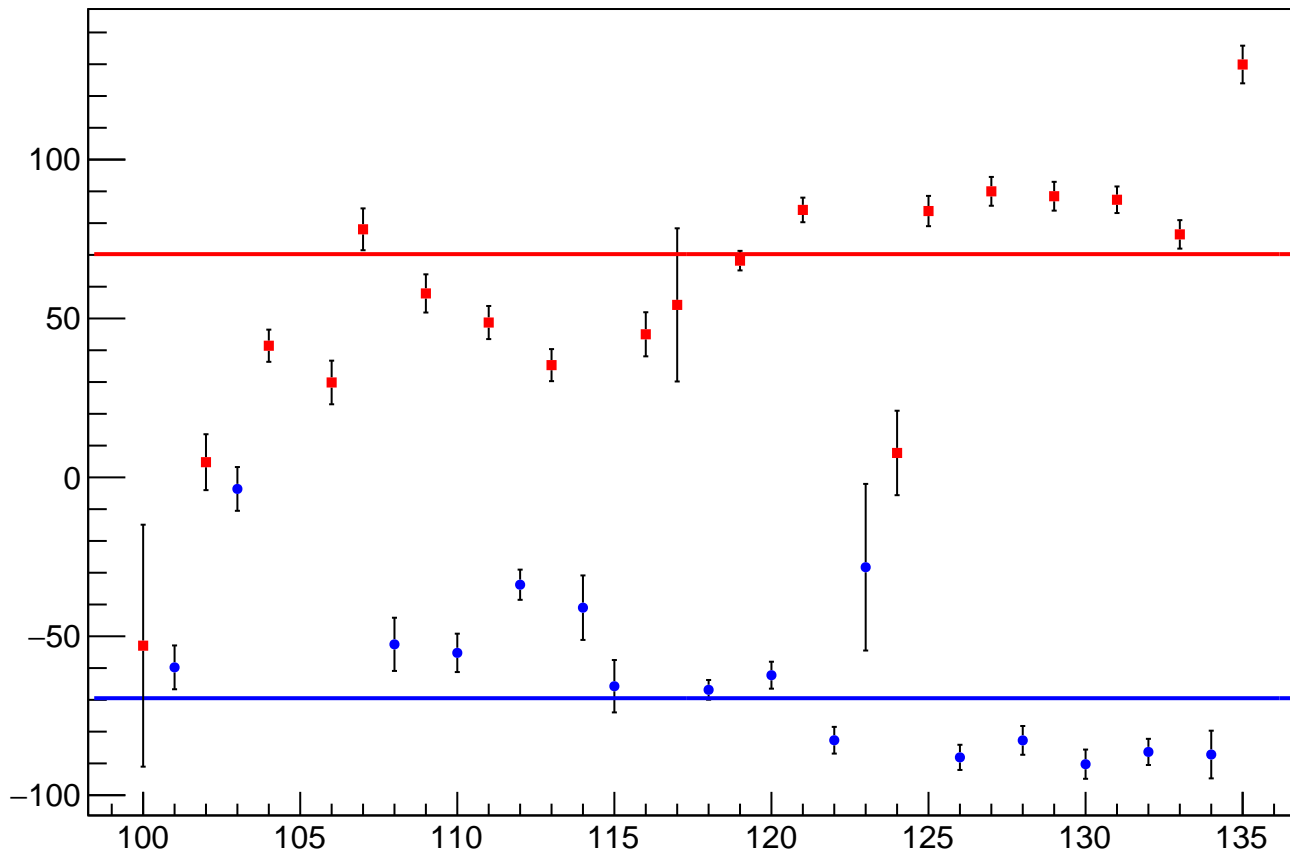
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-208.401 \pm 2.110$   $\chi^2/\text{NDF}: 843.4/15$

$18.521 \pm 1.426$   $\chi^2/\text{NDF}: 23951.1/34$

$209.592 \pm 1.936$   $\chi^2/\text{NDF}: 1797.5/18$

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-69.480 \pm 1.283$   $\chi^2/\text{NDF}: 257.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $70.246 \pm 1.214$   $\chi^2/\text{NDF}: 416.1/18$

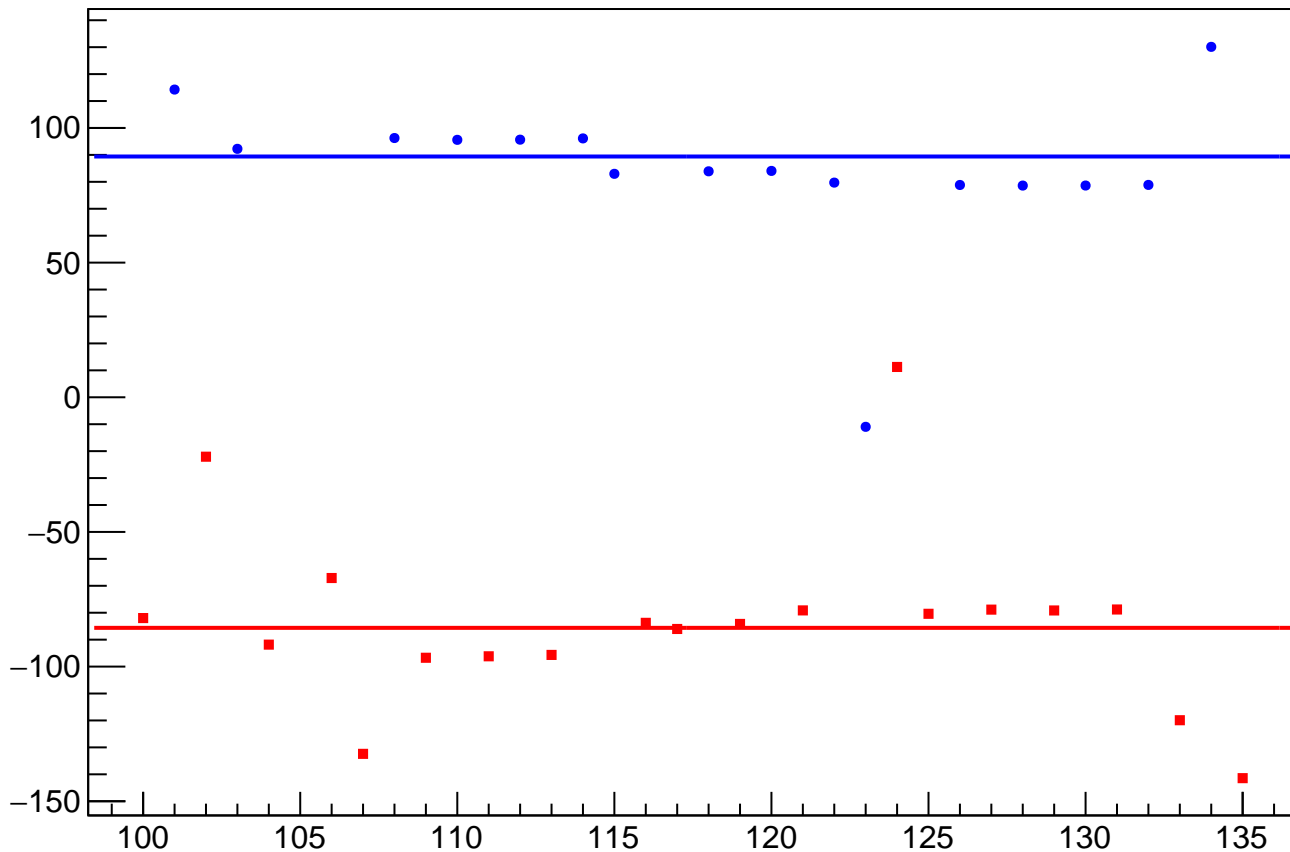
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-69.480 \pm 1.283$   $\chi^2/\text{NDF}: 257.2/15$

$4.260 \pm 0.882$   $\chi^2/\text{NDF}: 6927.9/34$

$70.246 \pm 1.214$   $\chi^2/\text{NDF}: 416.1/18$

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 89.404+/-0.080  $\chi^2$ /NDF: 23519.7/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -85.615+/-0.069  $\chi^2$ /NDF: 201665.5/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

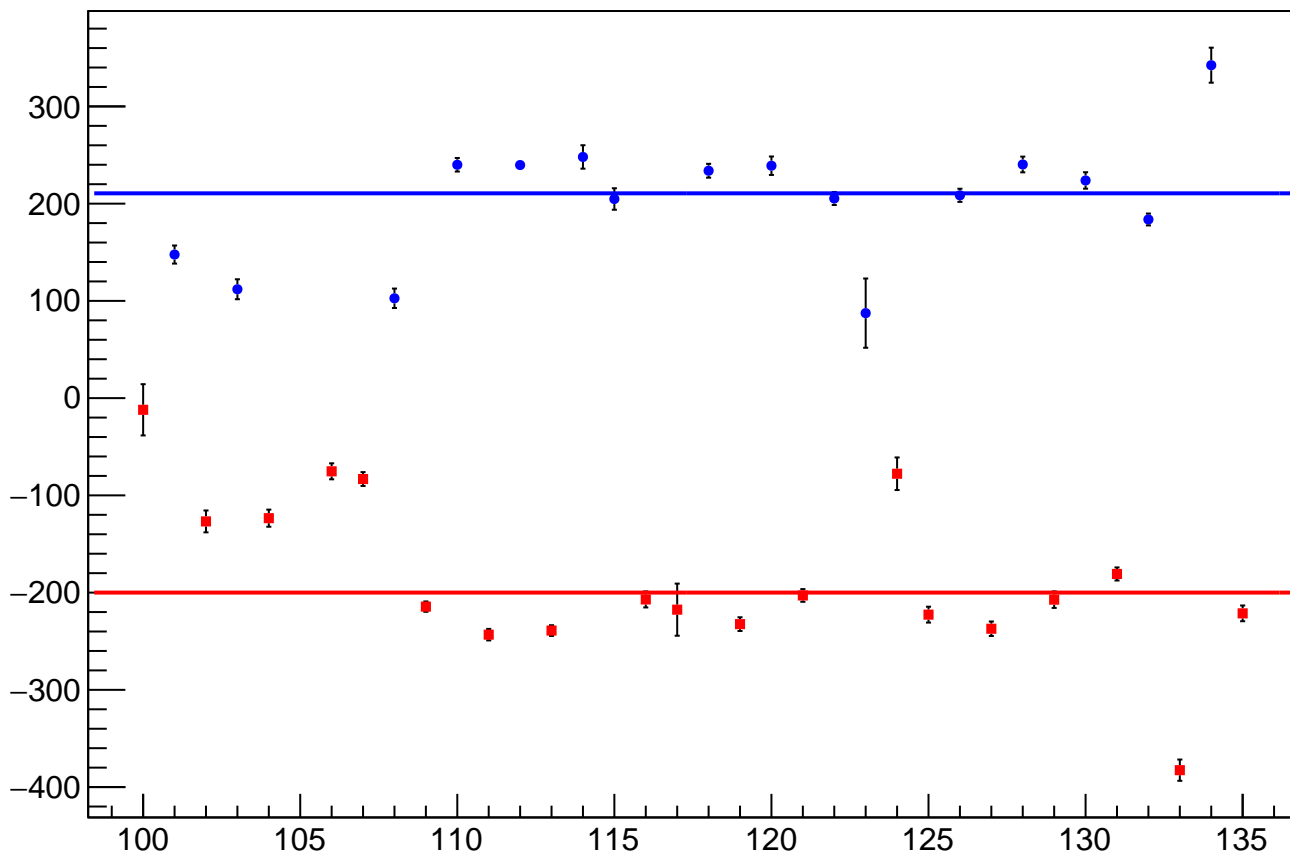
89.404+/-0.080  $\chi^2$ /NDF: 23519.7/15

-10.676+/-0.052  $\chi^2$ /NDF: 2966078.2/34

-85.615+/-0.069  $\chi^2$ /NDF: 201665.5/18



reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 210.613+/-2.044  $\chi^2$ /NDF: 435.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -199.978+/-1.797  $\chi^2$ /NDF: 1182.8/18

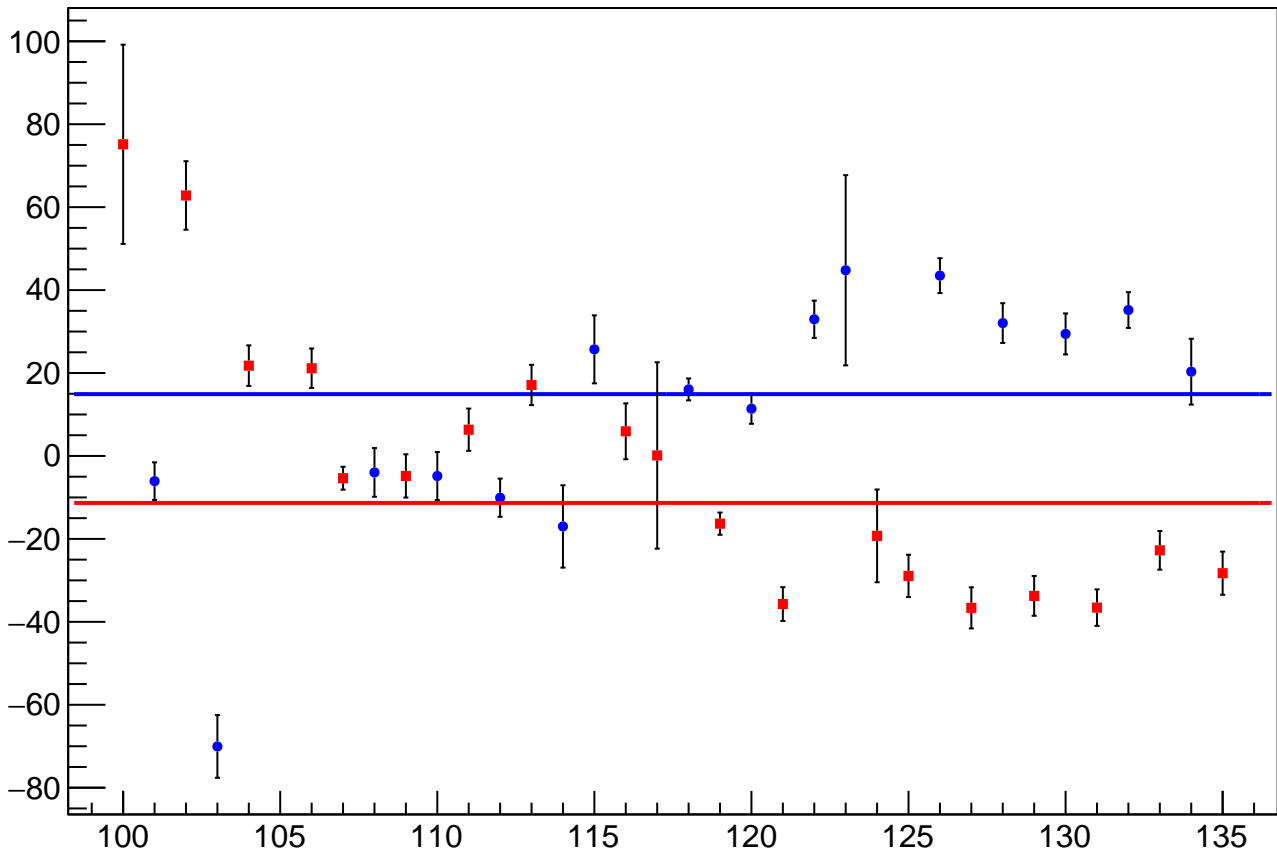
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

210.613+/-2.044  $\chi^2$ /NDF: 435.8/15

-20.974+/-1.350  $\chi^2$ /NDF: 24369.6/34

-199.978+/-1.797  $\chi^2$ /NDF: 1182.8/18

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 14.909+/-1.215  $\chi^2$ /NDF: 320.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -11.319+/-1.091  $\chi^2$ /NDF: 394.7/18

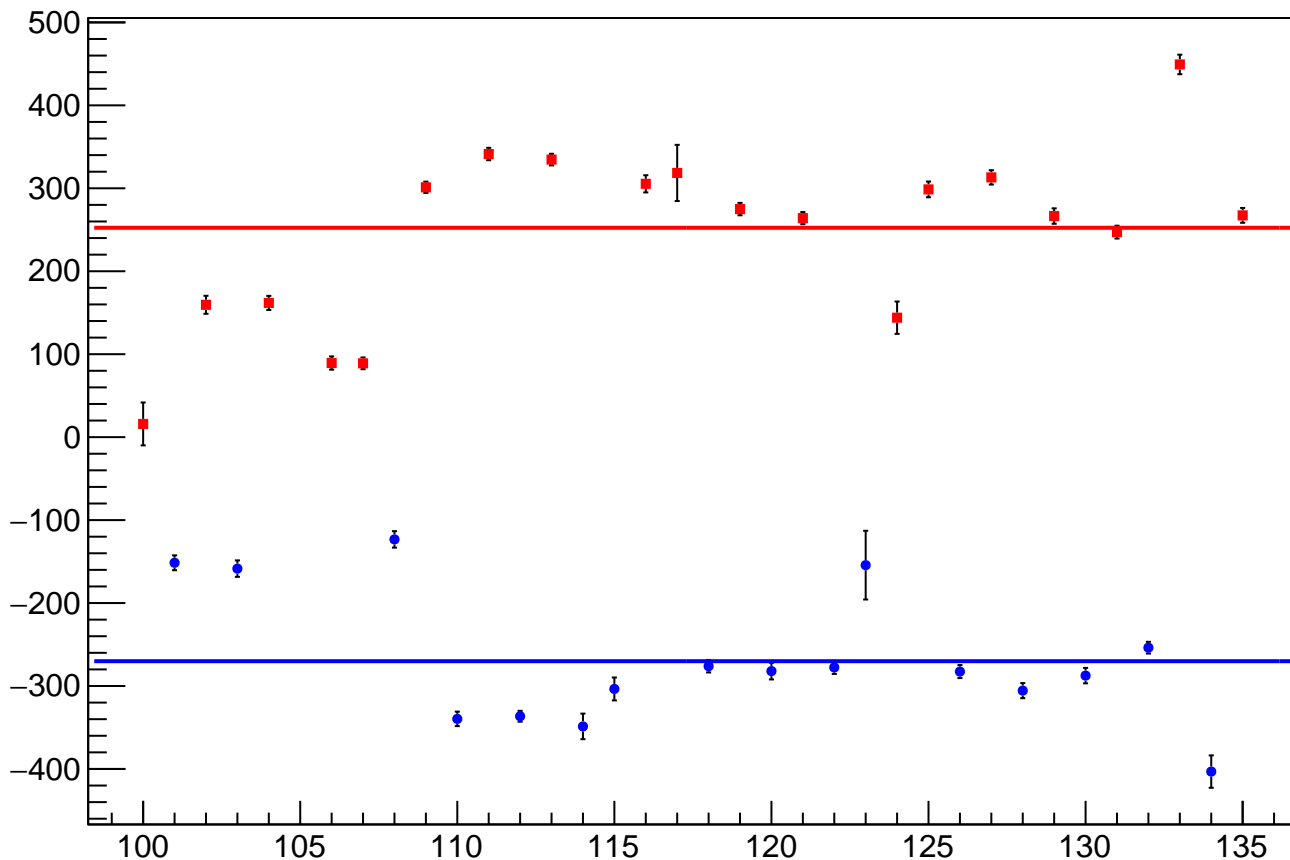
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

14.909+/-1.215  $\chi^2$ /NDF: 320.0/15

0.388+/-0.812  $\chi^2$ /NDF: 972.8/34

-11.319+/-1.091  $\chi^2$ /NDF: 394.7/18

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-270.097 \pm 2.323$   $\chi^2/\text{NDF}: 800.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $252.400 \pm 2.039$   $\chi^2/\text{NDF}: 1976.3/18$

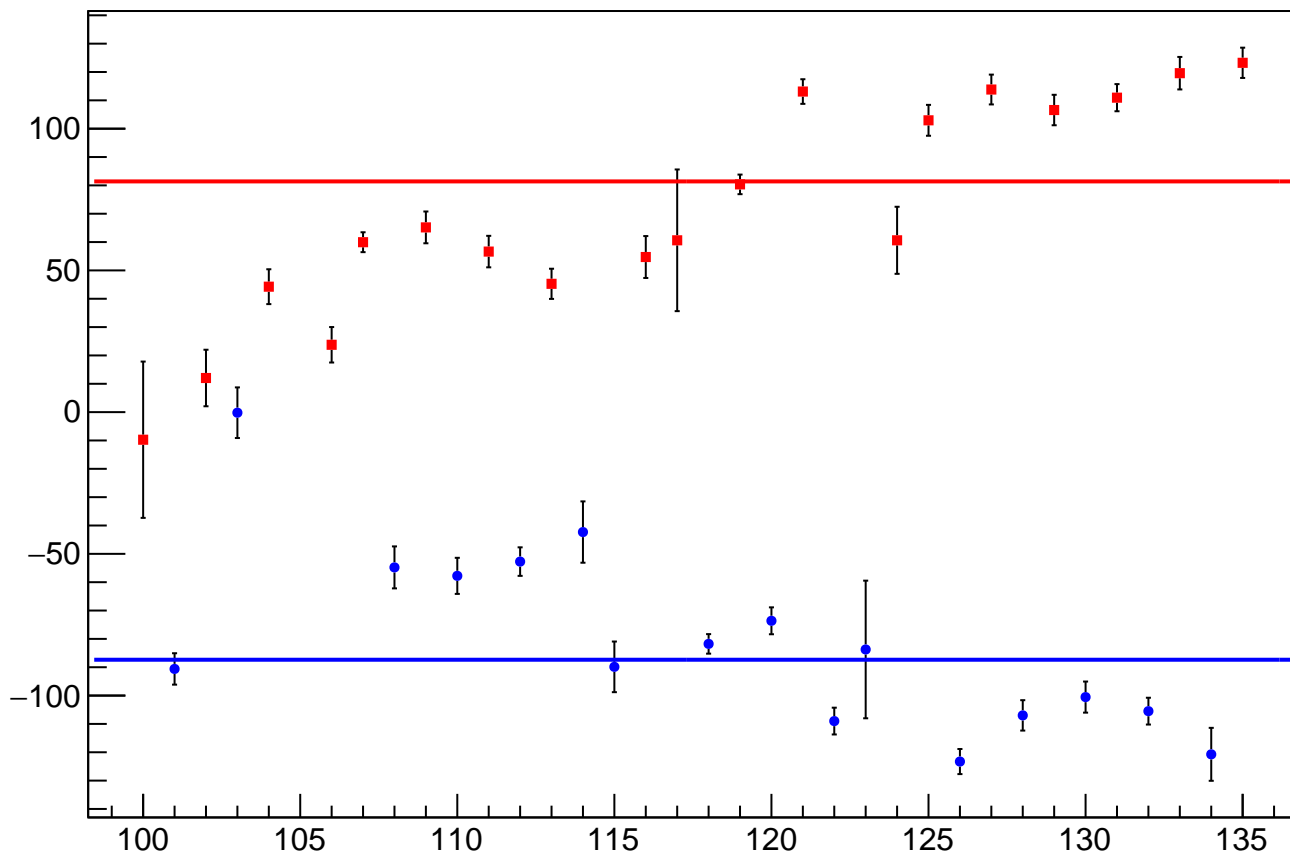
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-270.097 \pm 2.323$   $\chi^2/\text{NDF}: 800.8/15$

$25.114 \pm 1.532$   $\chi^2/\text{NDF}: 31349.0/34$

$252.400 \pm 2.039$   $\chi^2/\text{NDF}: 1976.3/18$

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-87.357 \pm 1.416$   $\chi^2/\text{NDF}: 345.8/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $81.400 \pm 1.268$   $\chi^2/\text{NDF}: 581.9/18$

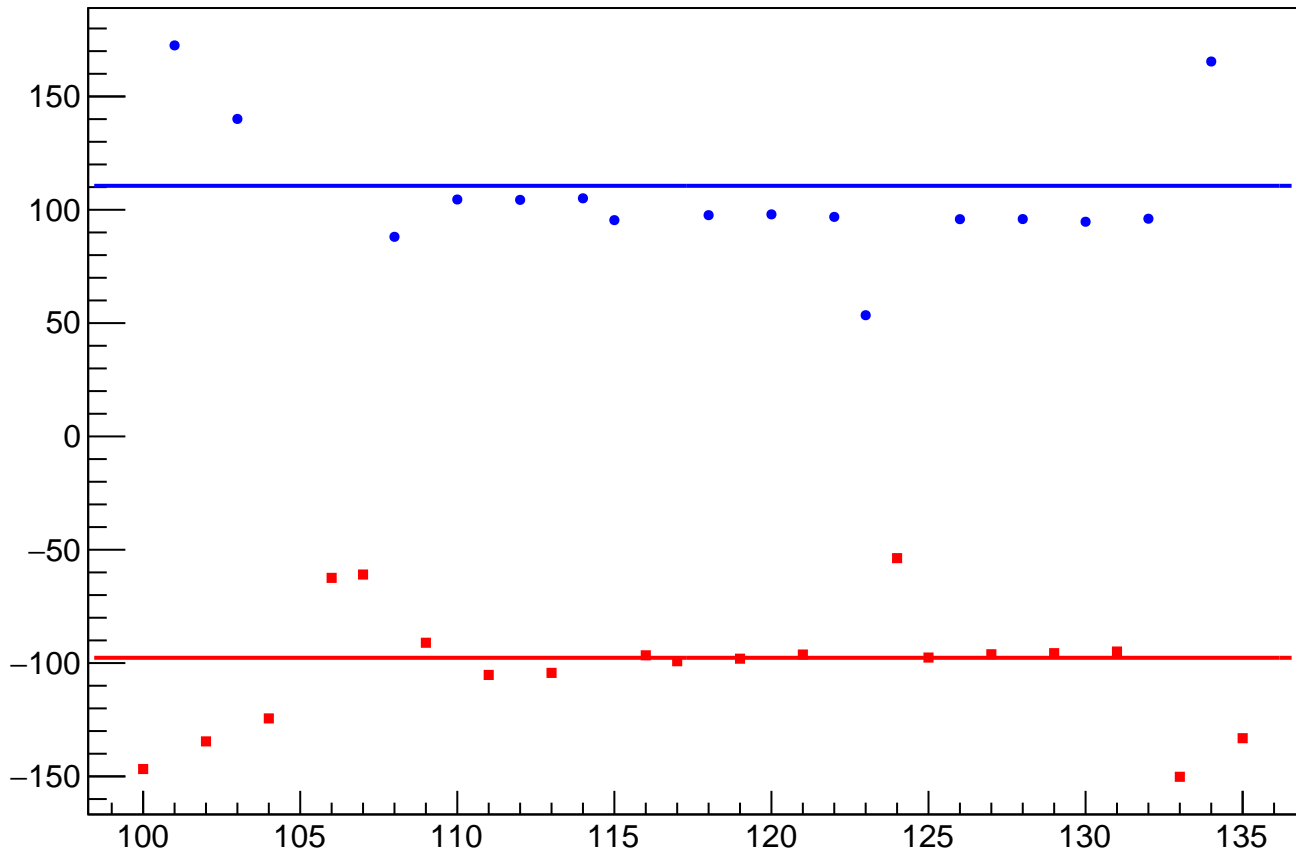
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-87.357 \pm 1.416$   $\chi^2/\text{NDF}: 345.8/15$

$6.256 \pm 0.945$   $\chi^2/\text{NDF}: 8809.1/34$

$81.400 \pm 1.268$   $\chi^2/\text{NDF}: 581.9/18$

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 110.577+/-0.088  $\chi^2$ /NDF: 88043.2/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -97.670+/-0.070  $\chi^2$ /NDF: 162908.3/18

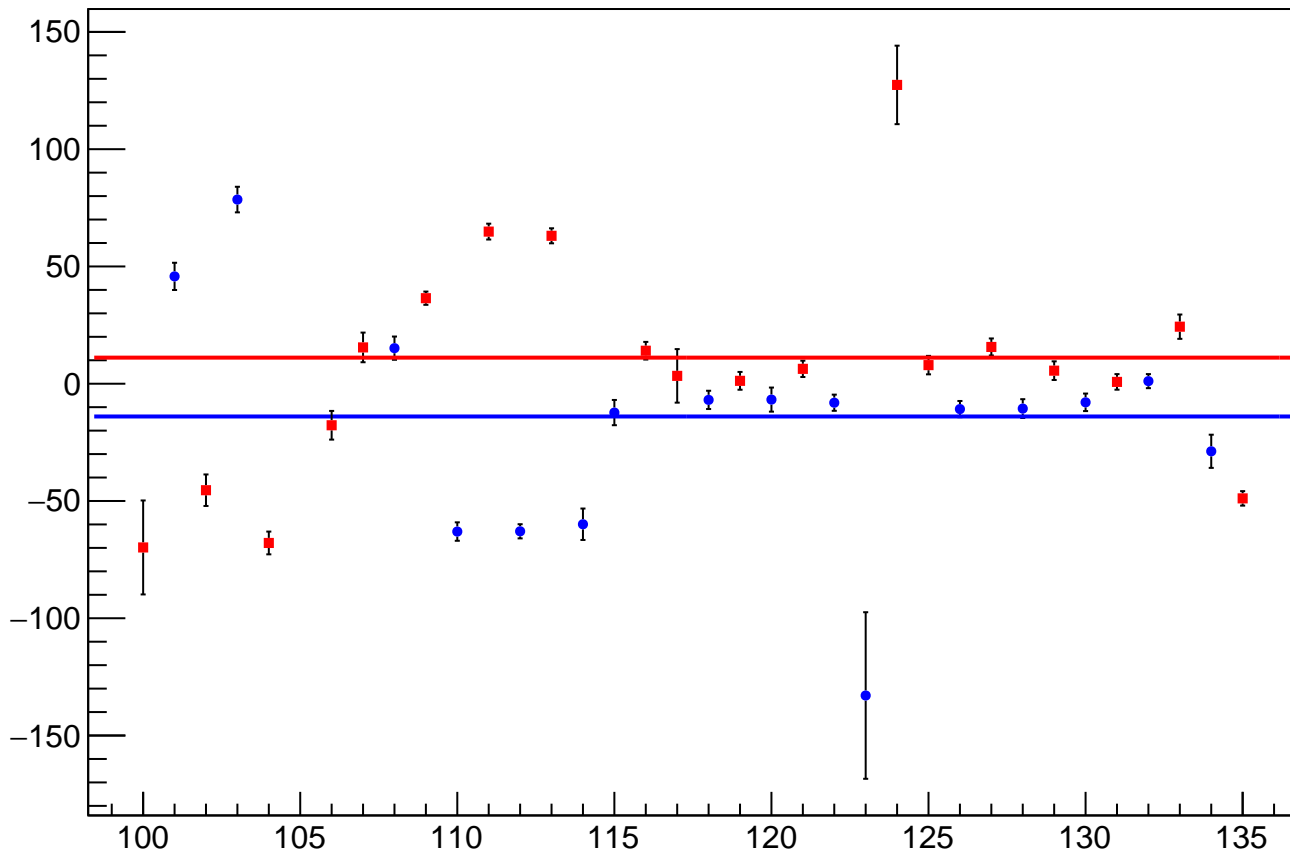
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

110.577+/-0.088  $\chi^2$ /NDF: 88043.2/15

-17.483+/-0.055  $\chi^2$ /NDF: 3686140.2/34

-97.670+/-0.070  $\chi^2$ /NDF: 162908.3/18

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In:  $-13.969 \pm 1.070$   $\chi^2/\text{NDF}: 946.1/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $11.125 \pm 0.954$   $\chi^2/\text{NDF}: 1427.0/18$

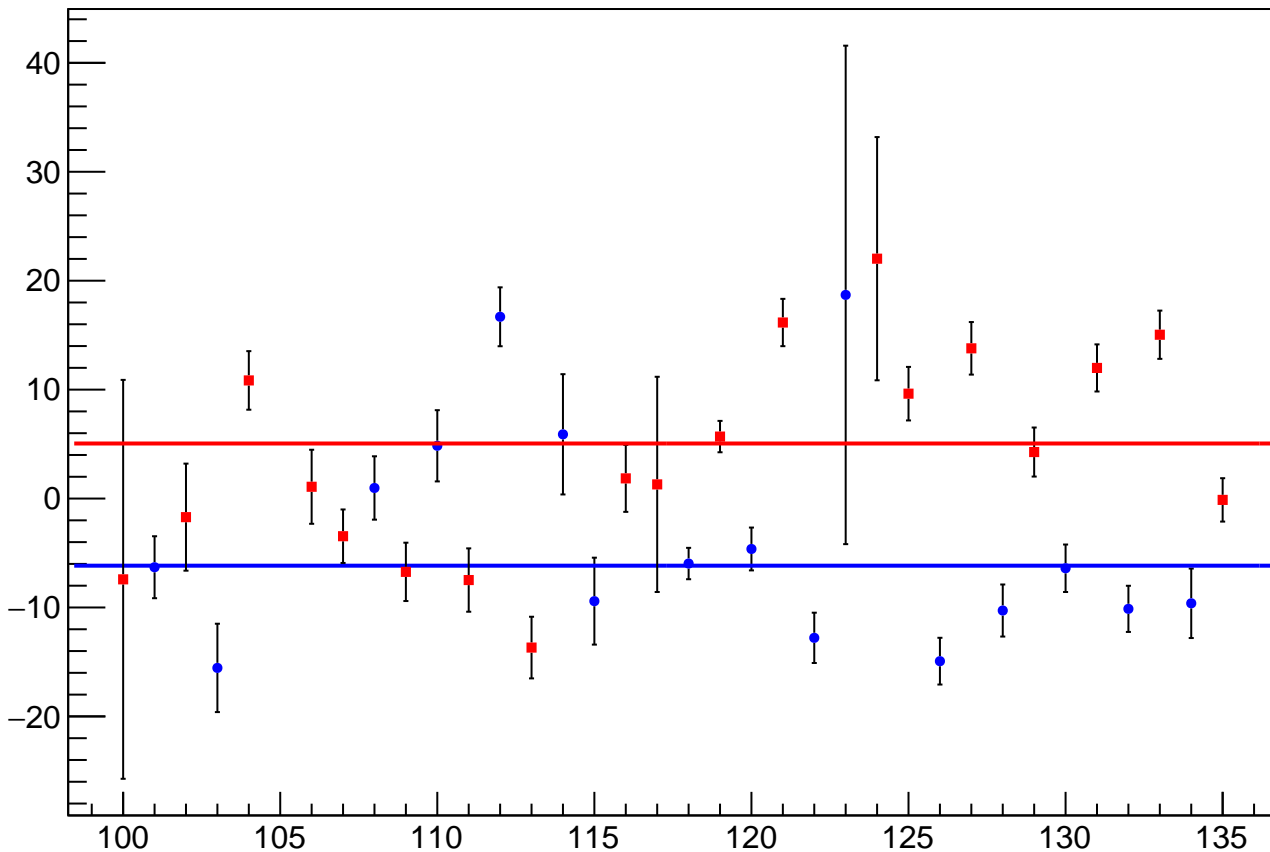
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-13.969 \pm 1.070$   $\chi^2/\text{NDF}: 946.1/15$

$0.021 \pm 0.712$   $\chi^2/\text{NDF}: 2679.5/34$

$11.125 \pm 0.954$   $\chi^2/\text{NDF}: 1427.0/18$

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -6.163+/-0.635  $\chi^2$ /NDF: 133.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5.054+/-0.593  $\chi^2$ /NDF: 186.1/18

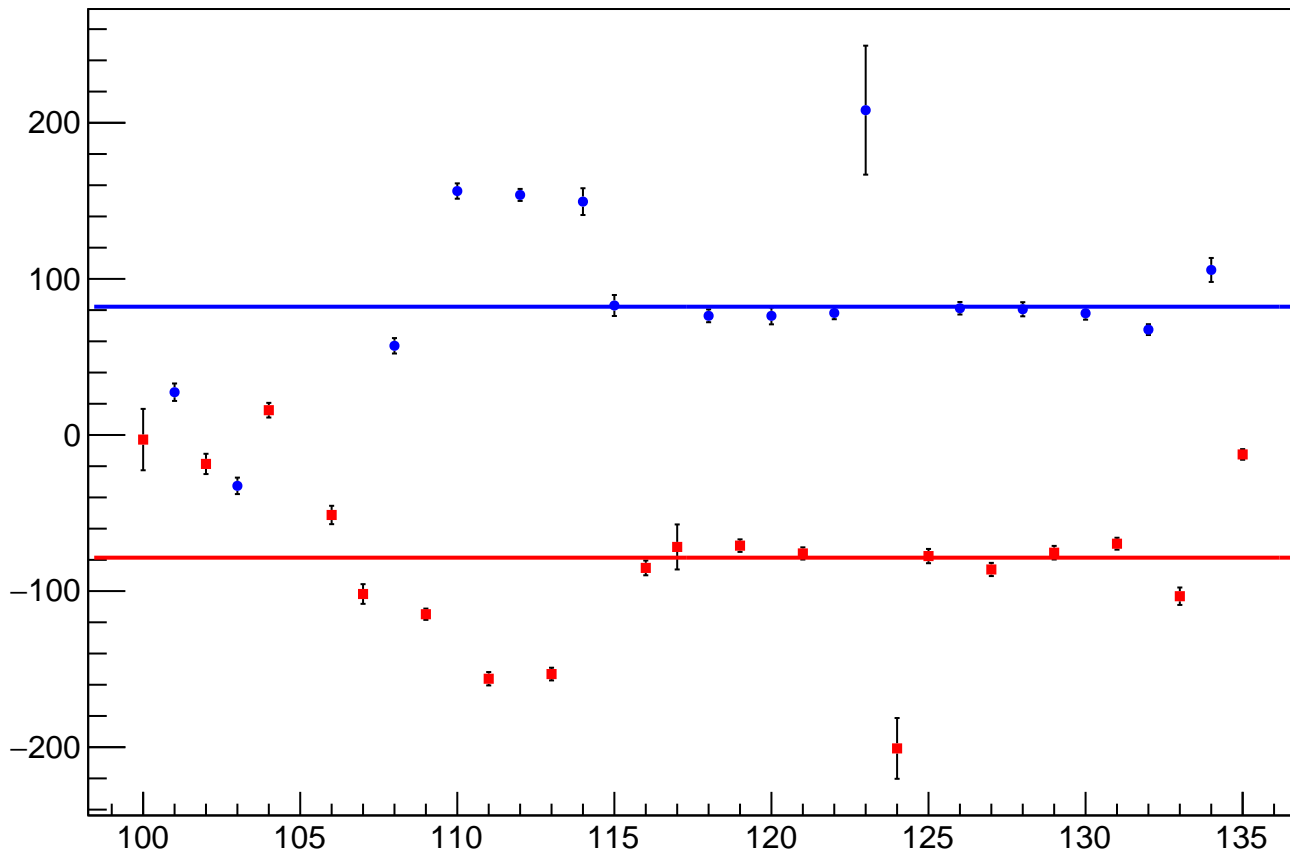
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-6.163+/-0.635  $\chi^2$ /NDF: 133.9/15

-0.177+/-0.433  $\chi^2$ /NDF: 486.7/34

5.054+/-0.593  $\chi^2$ /NDF: 186.1/18

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 82.186+/-1.214  $\chi^2$ /NDF: 1271.2/15

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

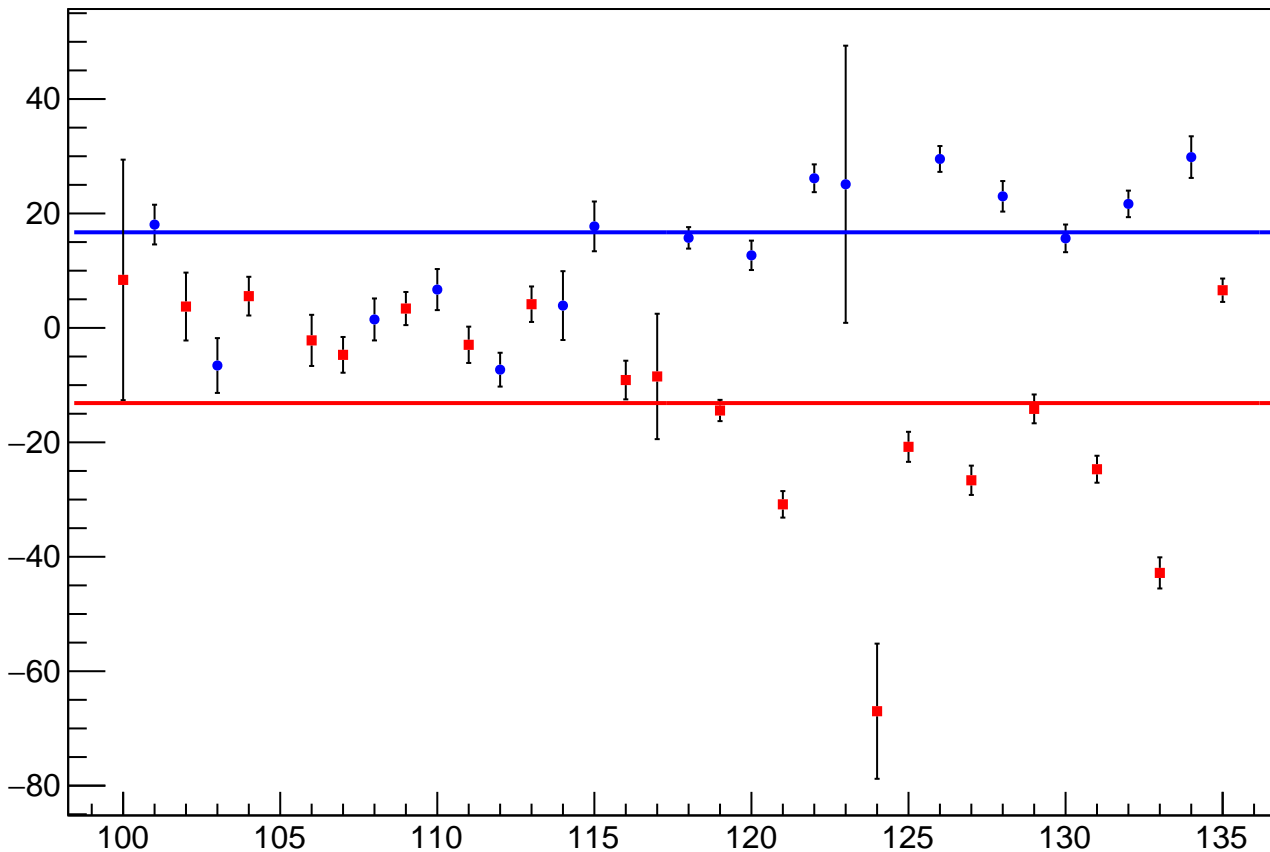
82.186+/-1.214  $\chi^2$ /NDF: 1271.2/15

-6.759+/-0.812  $\chi^2$ /NDF: 12725.9/34

-78.588+/-1.091  $\chi^2$ /NDF: 1755.7/18



reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 16.708+/-0.736  $\chi^2$ /NDF: 192.9/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -13.138+/-0.677  $\chi^2$ /NDF: 480.6/18

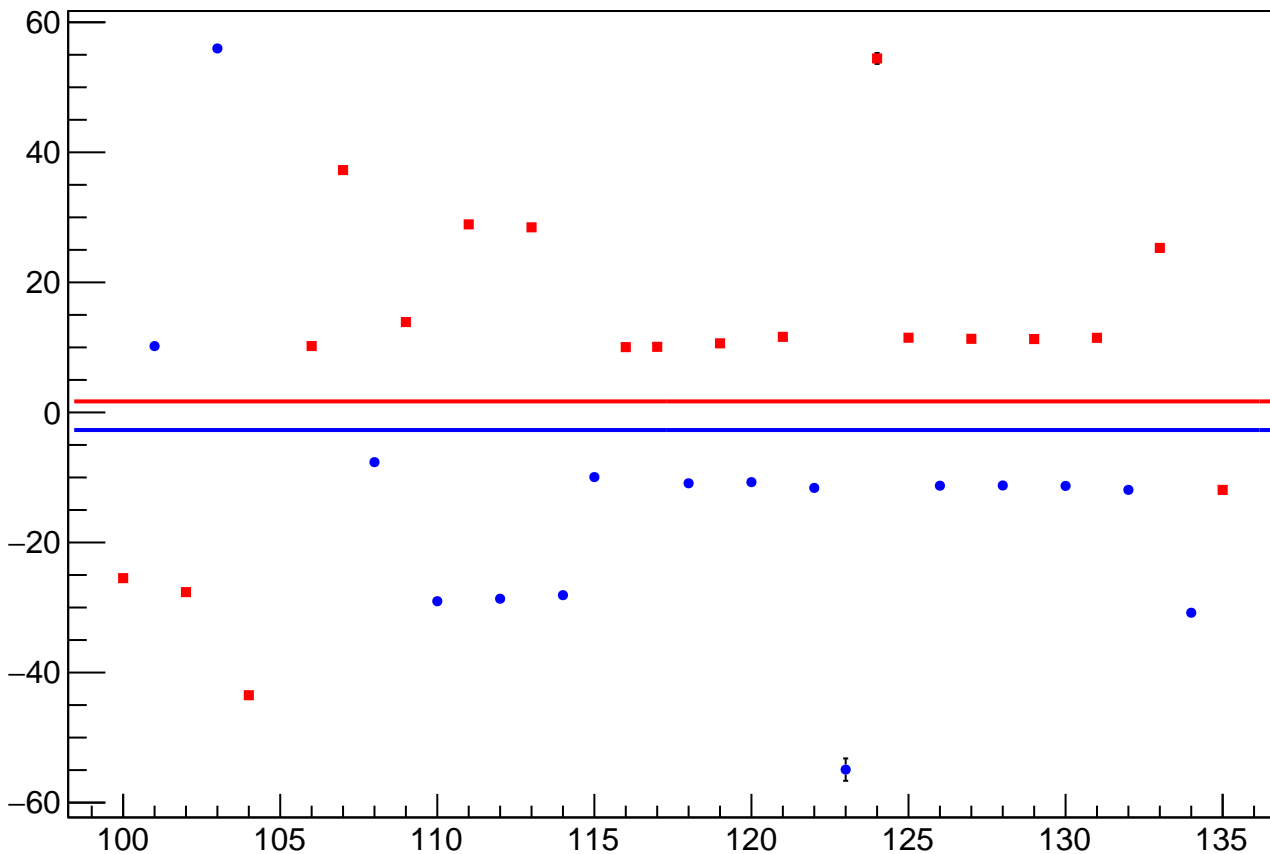
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

16.708+/-0.736  $\chi^2$ /NDF: 192.9/15

0.548+/-0.498  $\chi^2$ /NDF: 1564.9/34

-13.138+/-0.677  $\chi^2$ /NDF: 480.6/18

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -2.707+/-0.045  $\chi^2$ /NDF: 326879.0/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.697+/-0.039  $\chi^2$ /NDF: 352869.1/18

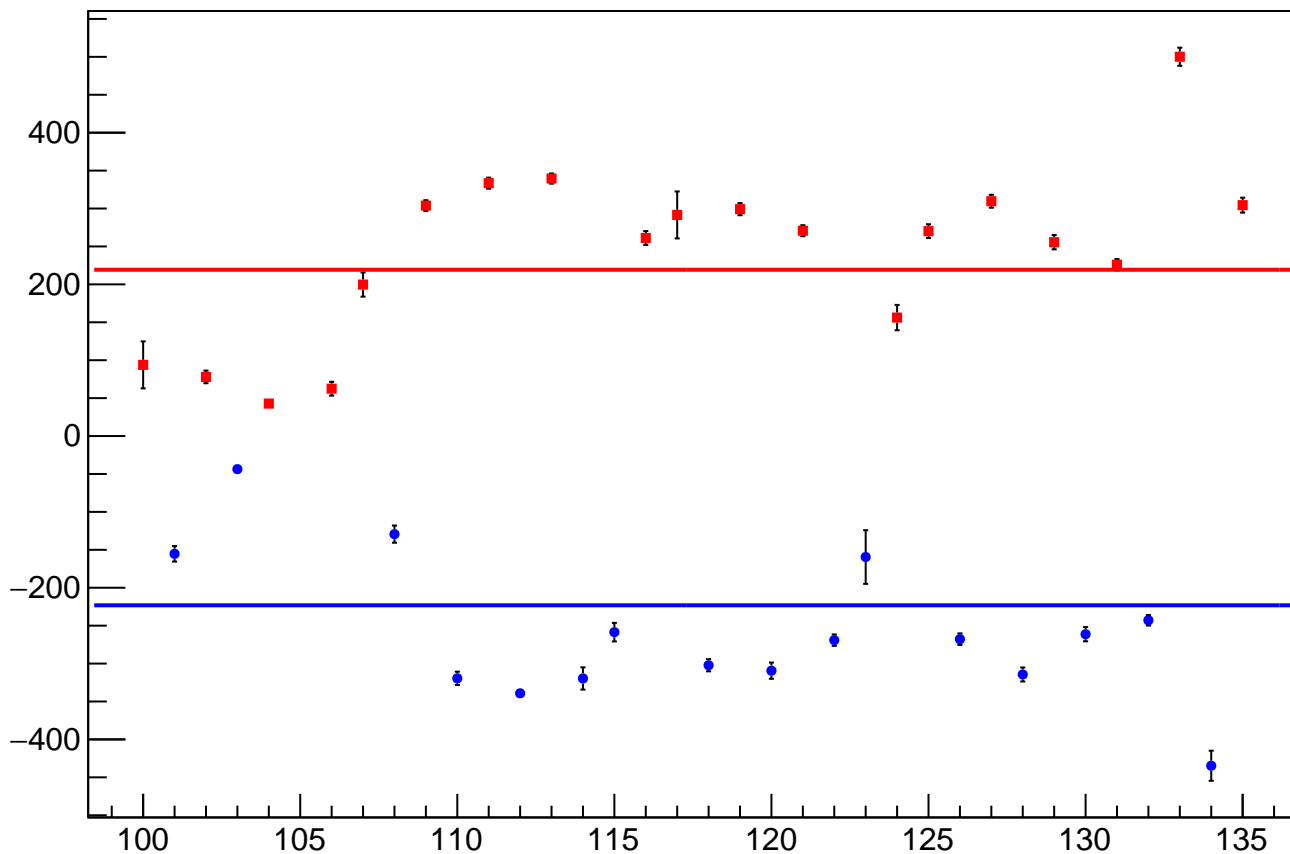
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-2.707+/-0.045  $\chi^2$ /NDF: 326879.0/15

-0.141+/-0.029  $\chi^2$ /NDF: 685208.0/34

1.697+/-0.039  $\chi^2$ /NDF: 352869.1/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: -223.165+/-2.108  $\chi^2$ /NDF: 2780.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 219.271+/-1.914  $\chi^2$ /NDF: 4081.5/18

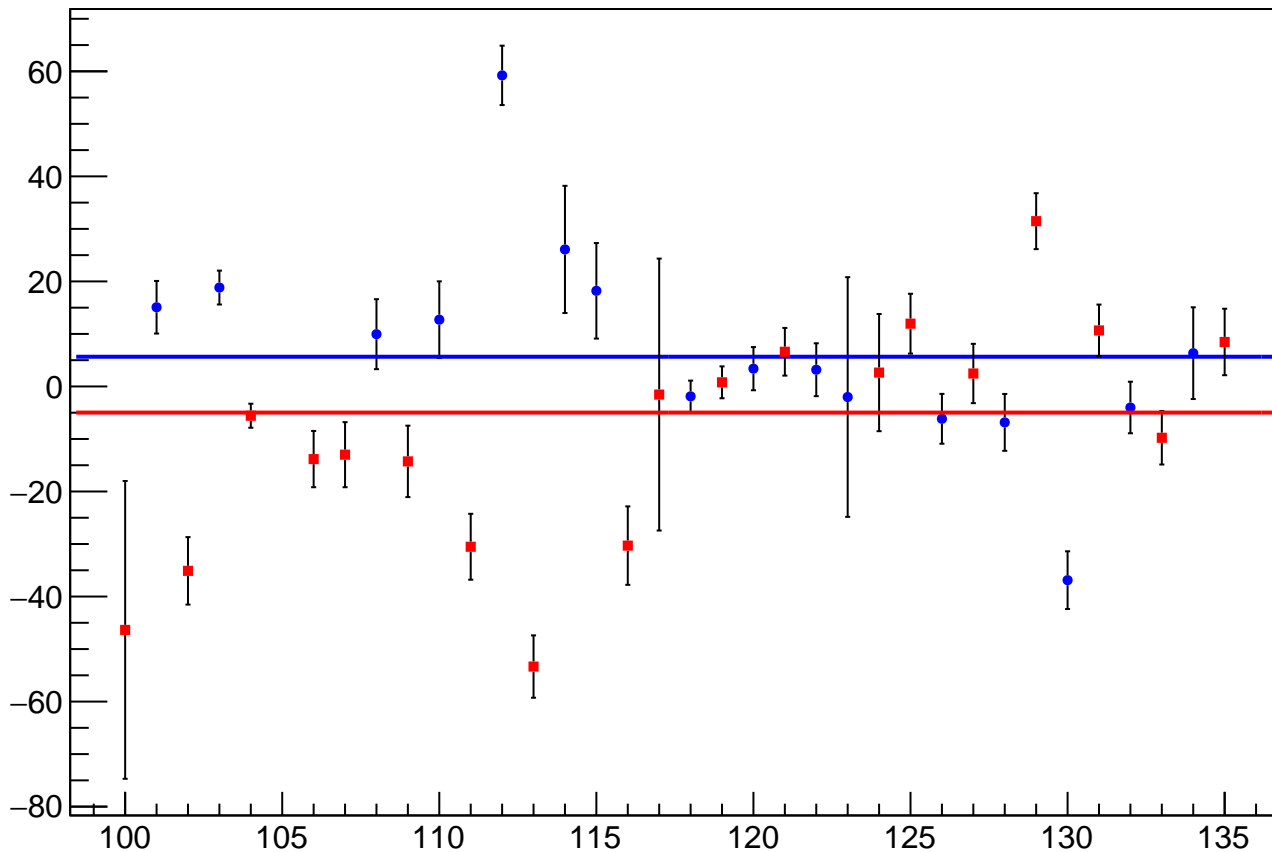
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-223.165+/-2.108  $\chi^2$ /NDF: 2780.1/15

19.354+/-1.417  $\chi^2$ /NDF: 31009.5/34

219.271+/-1.914  $\chi^2$ /NDF: 4081.5/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.657+/-1.284  $\chi^2/\text{NDF}$ : 198.5/15

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

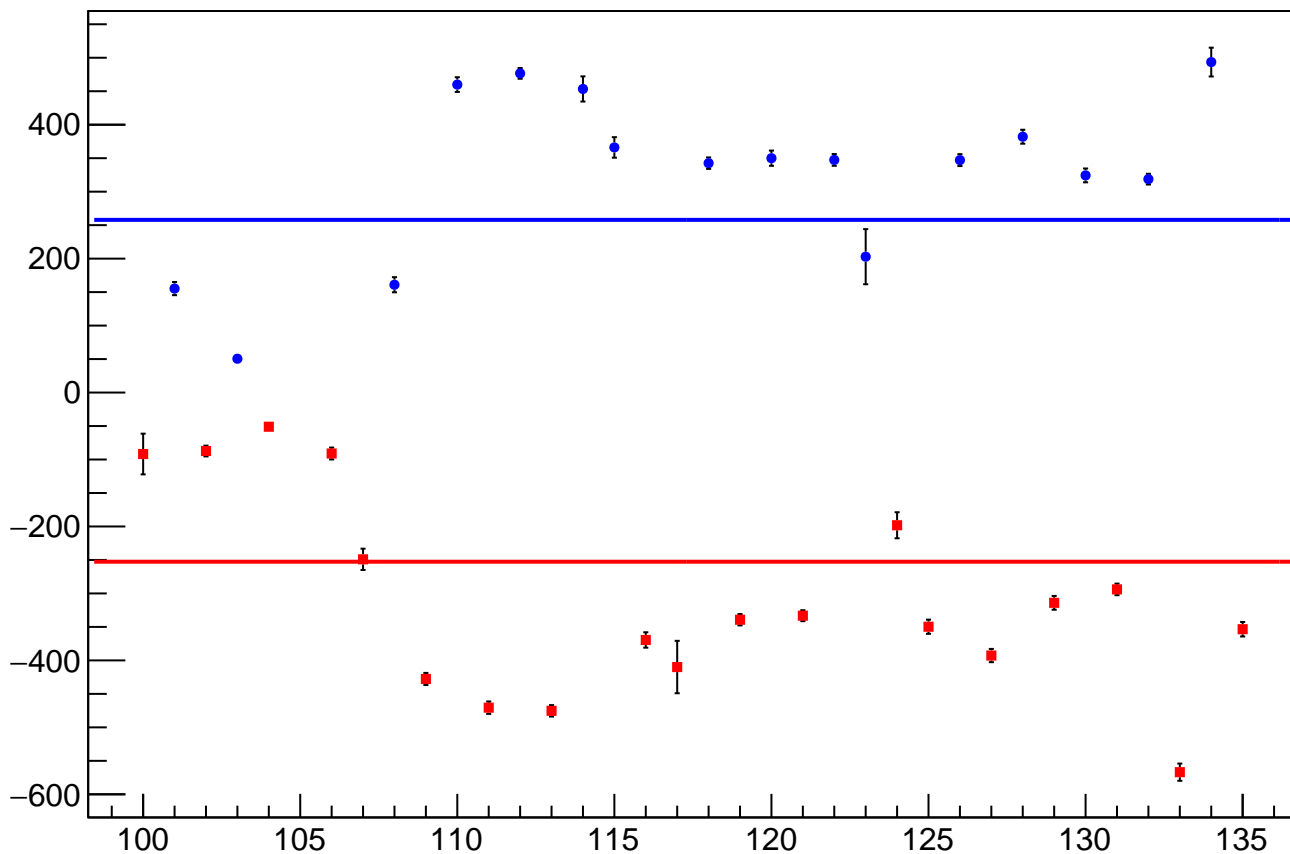
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.657+/-1.284  $\chi^2/\text{NDF}$ : 198.5/15

-0.186+/-0.862  $\chi^2/\text{NDF}$ : 444.5/34

-4.976+/-1.163  $\chi^2/\text{NDF}$ : 208.4/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 257.904+/-2.301  $\chi^2$ /NDF: 4556.1/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -252.628+/-2.093  $\chi^2$ /NDF: 6241.2/18

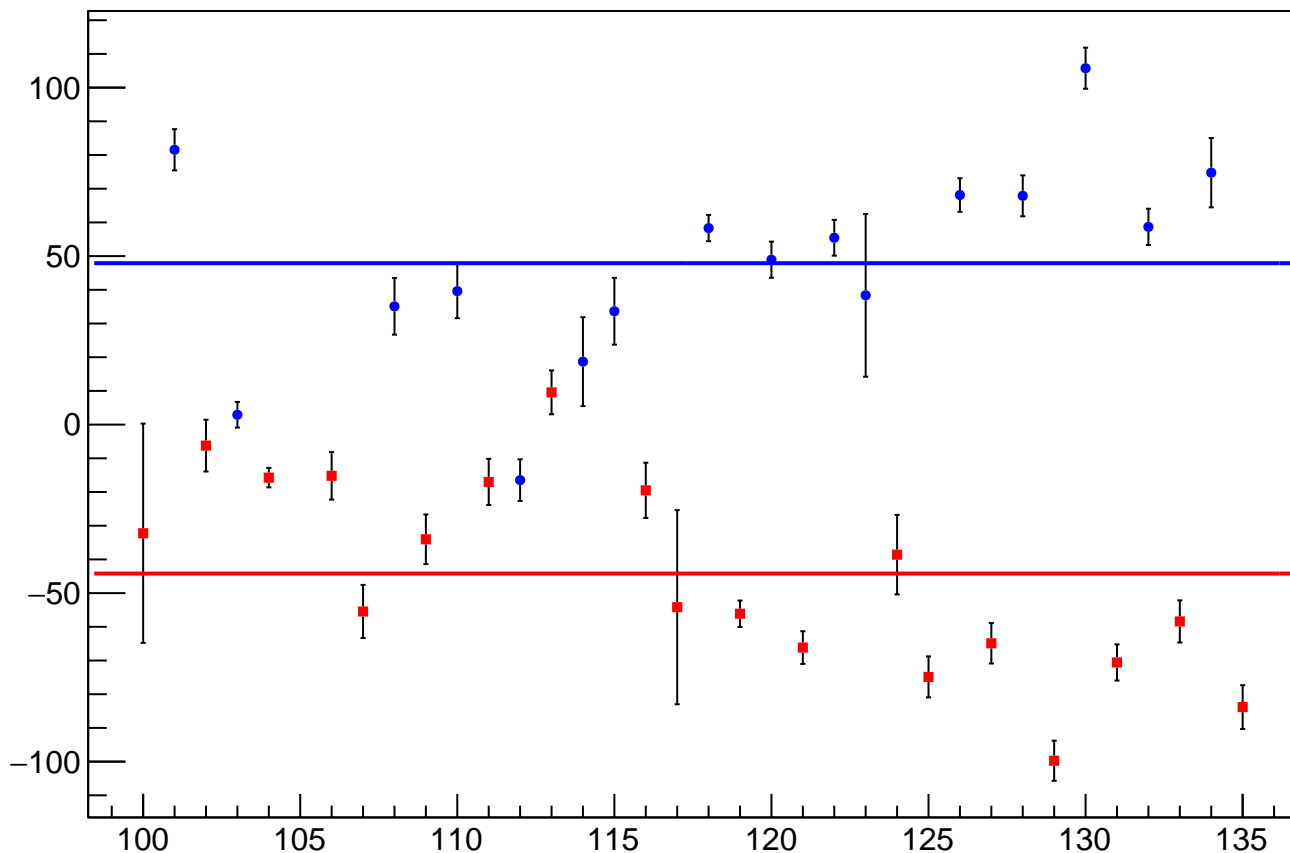
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

257.904+/-2.301  $\chi^2$ /NDF: 4556.1/15

-21.454+/-1.548  $\chi^2$ /NDF: 37737.7/34

-252.628+/-2.093  $\chi^2$ /NDF: 6241.2/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 47.897+/-1.501  $\chi^2$ /NDF: 426.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -44.197+/-1.367  $\chi^2$ /NDF: 456.6/18

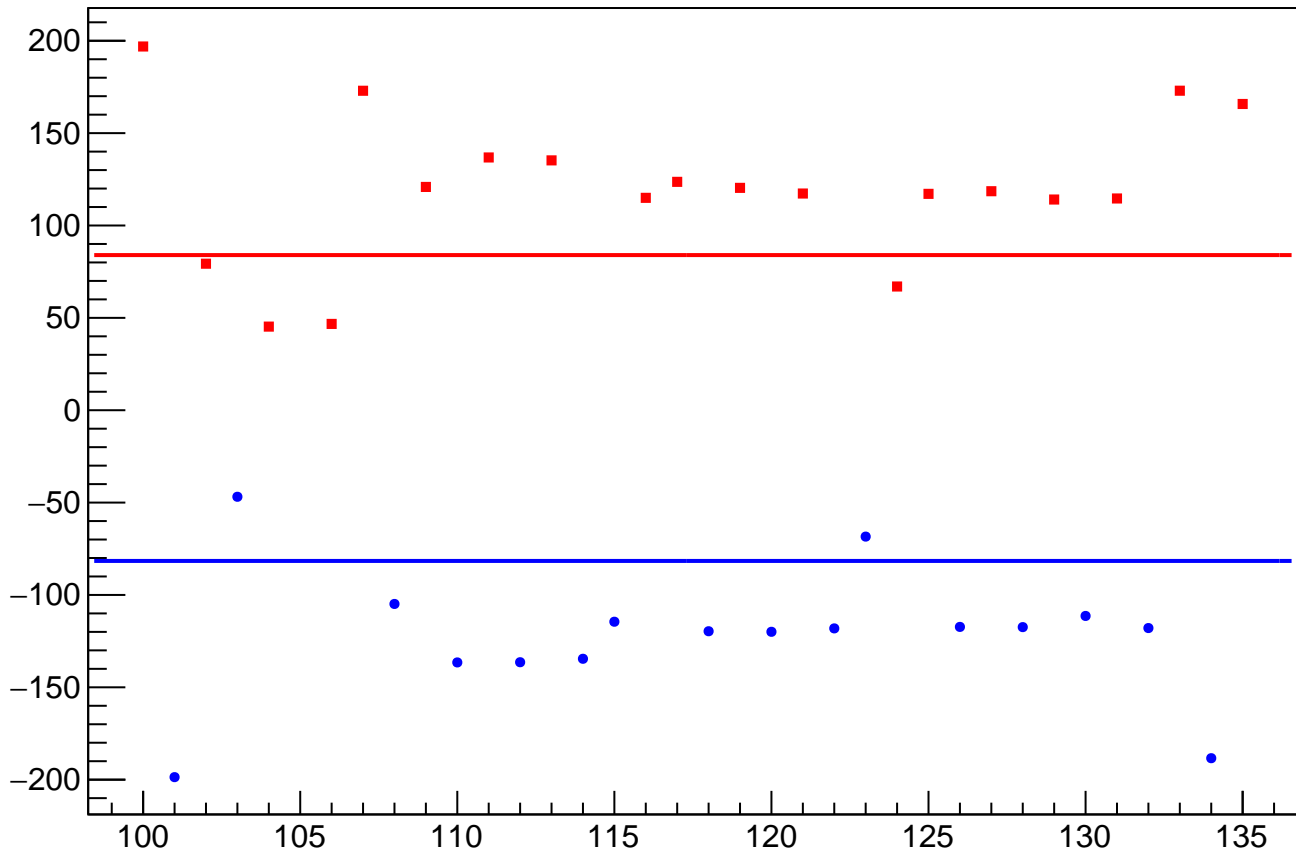
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

47.897+/-1.501  $\chi^2$ /NDF: 426.4/15

-2.464+/-1.011  $\chi^2$ /NDF: 2940.8/34

-44.197+/-1.367  $\chi^2$ /NDF: 456.6/18

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-81.588 \pm 0.072$   $\chi^2/\text{NDF}: 377244.4/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $83.984 \pm 0.066$   $\chi^2/\text{NDF}: 459343.6/18$

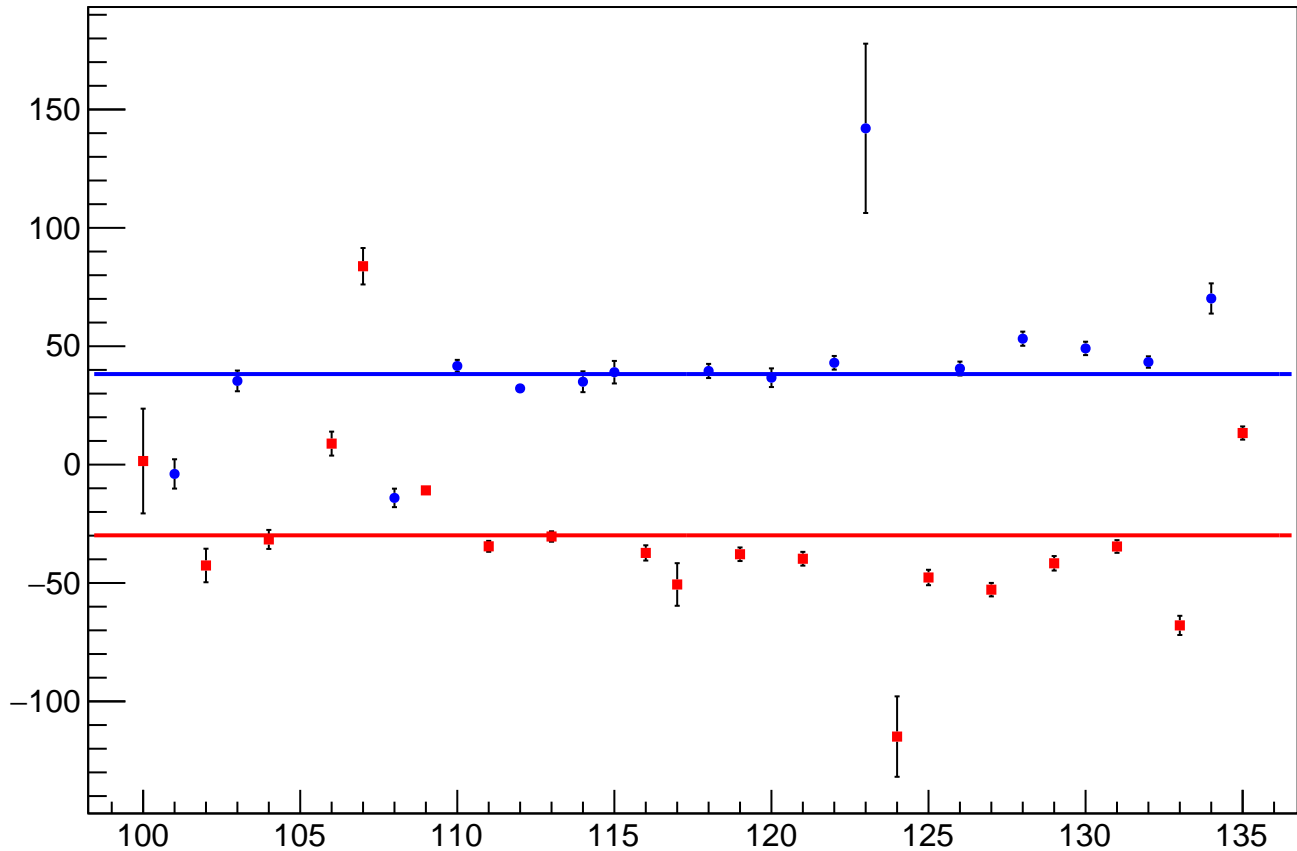
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-81.588 \pm 0.072$   $\chi^2/\text{NDF}: 377244.4/15$

$8.415 \pm 0.048$   $\chi^2/\text{NDF}: 3733826.6/34$

$83.984 \pm 0.066$   $\chi^2/\text{NDF}: 459343.6/18$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 38.244+/-0.828  $\chi^2$ /NDF: 317.8/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -29.871+/-0.751  $\chi^2$ /NDF: 866.5/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

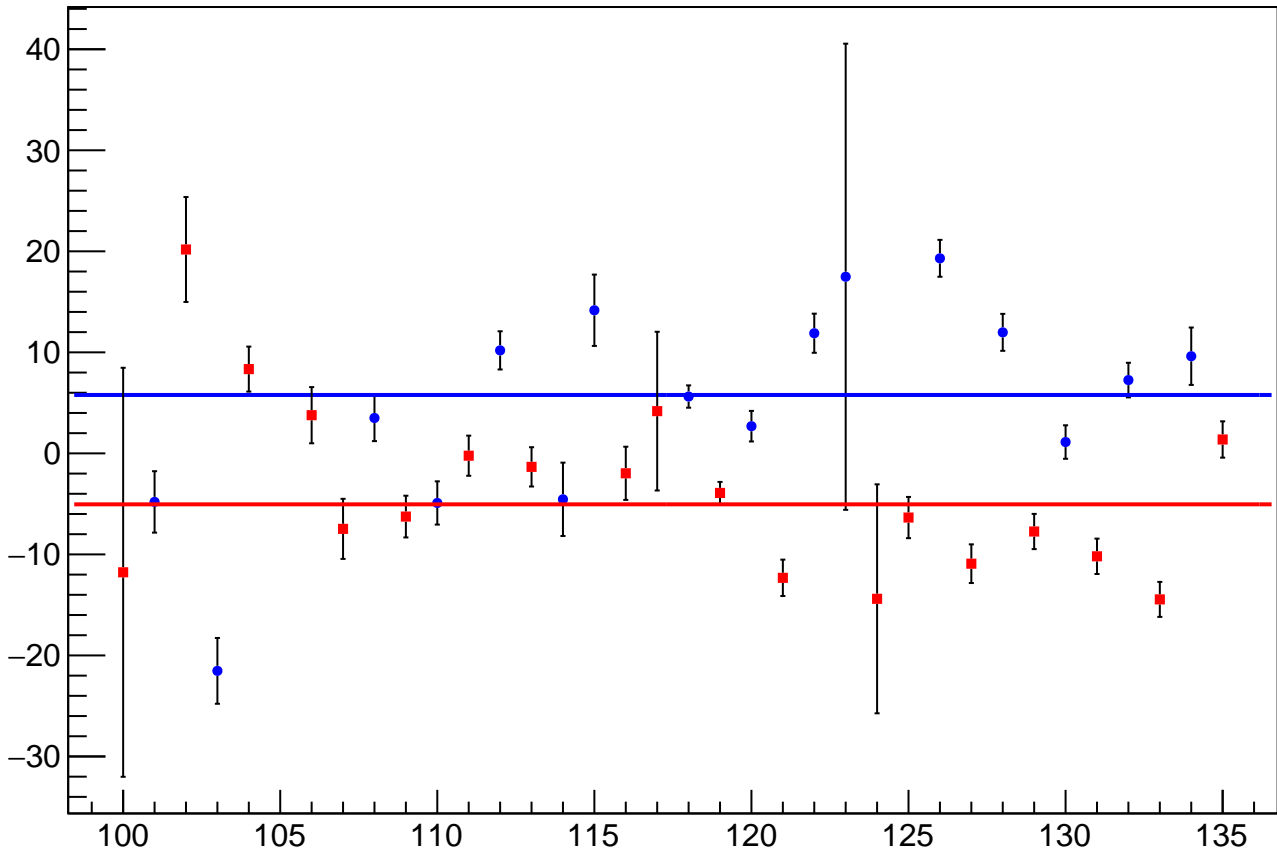
38.244+/-0.828  $\chi^2$ /NDF: 317.8/15

0.889+/-0.556  $\chi^2$ /NDF: 4895.2/34

-29.871+/-0.751  $\chi^2$ /NDF: 866.5/18



reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.782+/-0.500  $\chi^2/\text{NDF}$ : 218.8/15

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

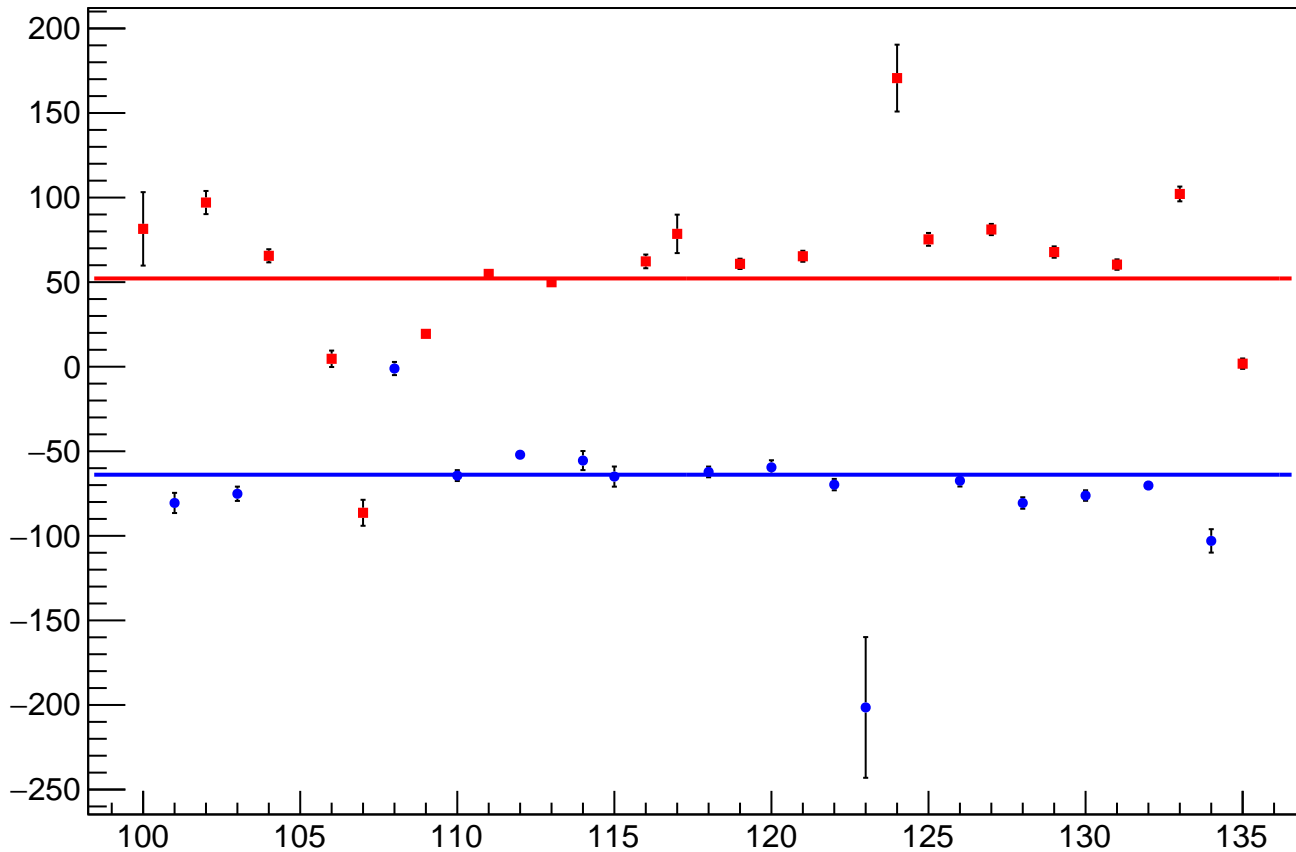
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.782+/-0.500  $\chi^2/\text{NDF}$ : 218.8/15

0.131+/-0.346  $\chi^2/\text{NDF}$ : 627.8/34

-5.044+/-0.479  $\chi^2/\text{NDF}$ : 164.4/18

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-63.860 \pm 0.948$   $\chi^2/\text{NDF}: 389.6/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $52.178 \pm 0.870$   $\chi^2/\text{NDF}: 1244.3/18$

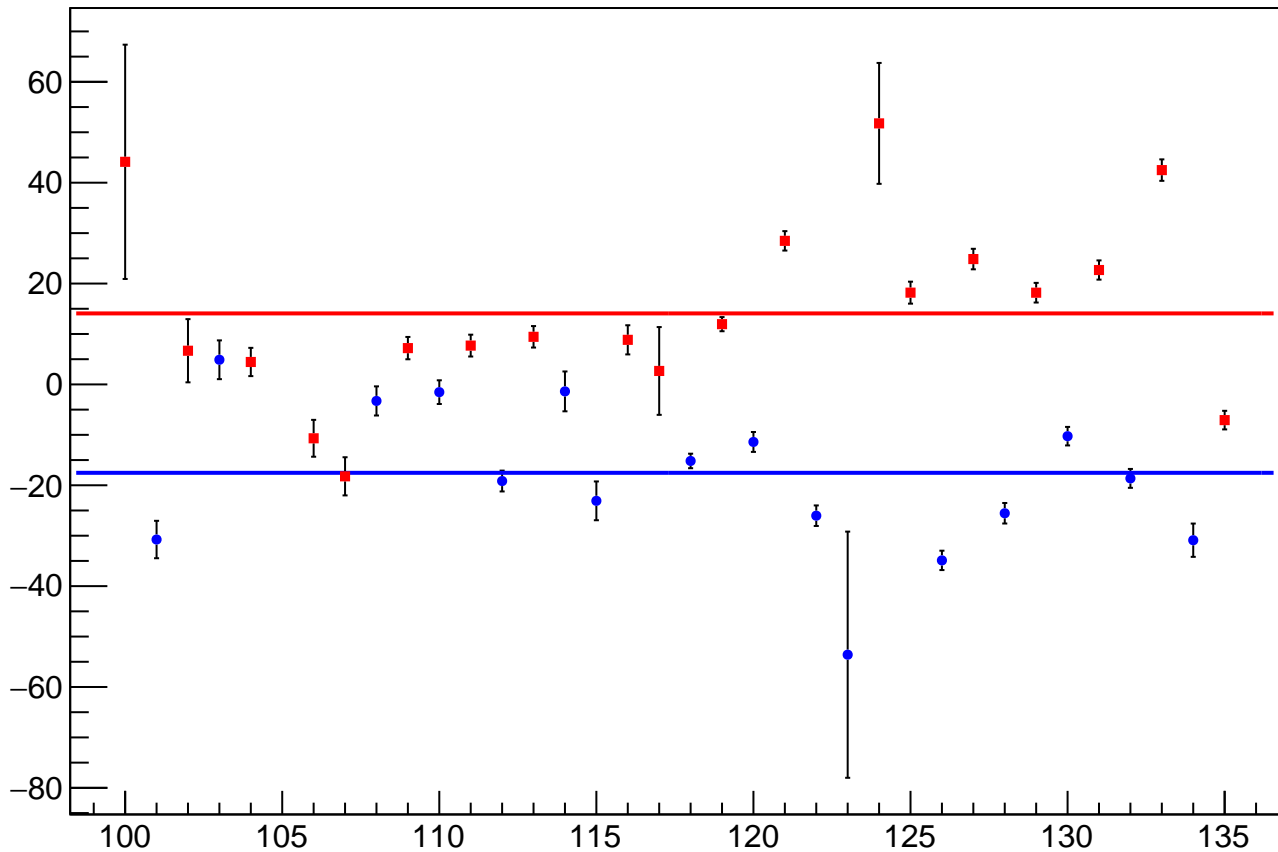
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-63.860 \pm 0.948$   $\chi^2/\text{NDF}: 389.6/15$

$-0.890 \pm 0.641$   $\chi^2/\text{NDF}: 9767.8/34$

$52.178 \pm 0.870$   $\chi^2/\text{NDF}: 1244.3/18$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-17.530 \pm 0.580$   $\chi^2/\text{NDF}: 298.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $14.079 \pm 0.546$   $\chi^2/\text{NDF}: 596.3/18$

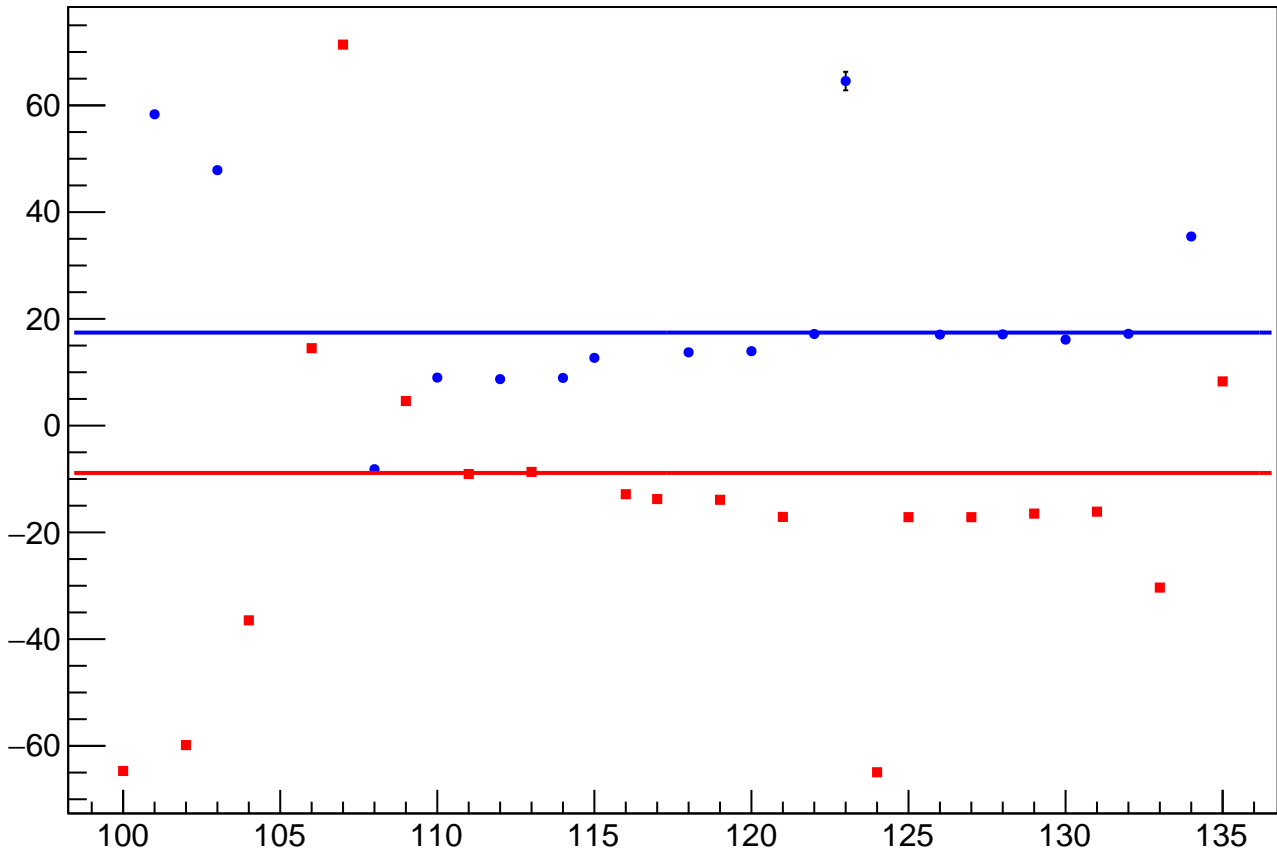
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-17.530 \pm 0.580$   $\chi^2/\text{NDF}: 298.3/15$

$-0.763 \pm 0.397$   $\chi^2/\text{NDF}: 2470.9/34$

$14.079 \pm 0.546$   $\chi^2/\text{NDF}: 596.3/18$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 17.431+/-0.036  $\chi^2$ /NDF: 242939.3/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -8.862+/-0.032  $\chi^2$ /NDF: 527453.9/18

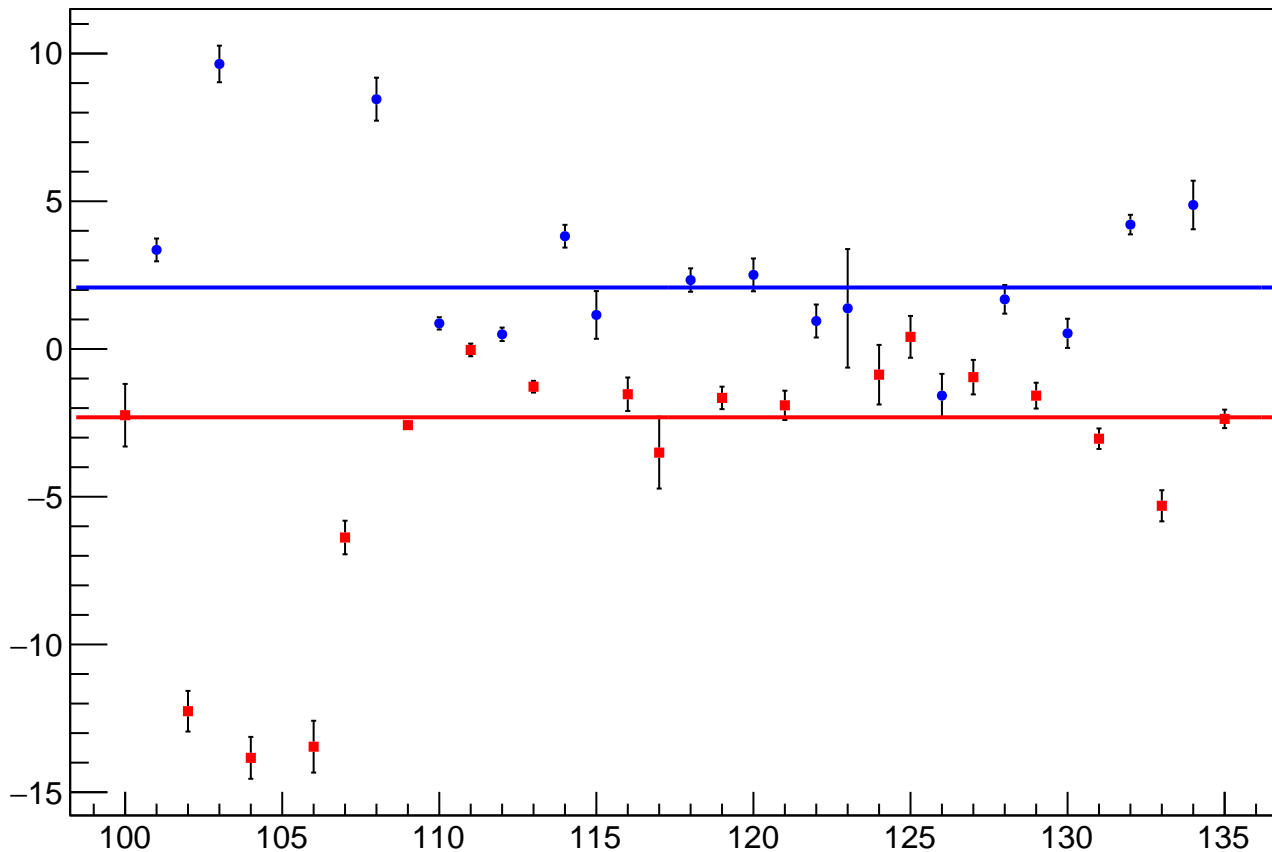
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

17.431+/-0.036  $\chi^2$ /NDF: 242939.3/15

2.808+/-0.024  $\chi^2$ /NDF: 1064661.2/34

-8.862+/-0.032  $\chi^2$ /NDF: 527453.9/18

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 2.082+/-0.102  $\chi^2$ /NDF: 434.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.312+/-0.084  $\chi^2$ /NDF: 897.4/18

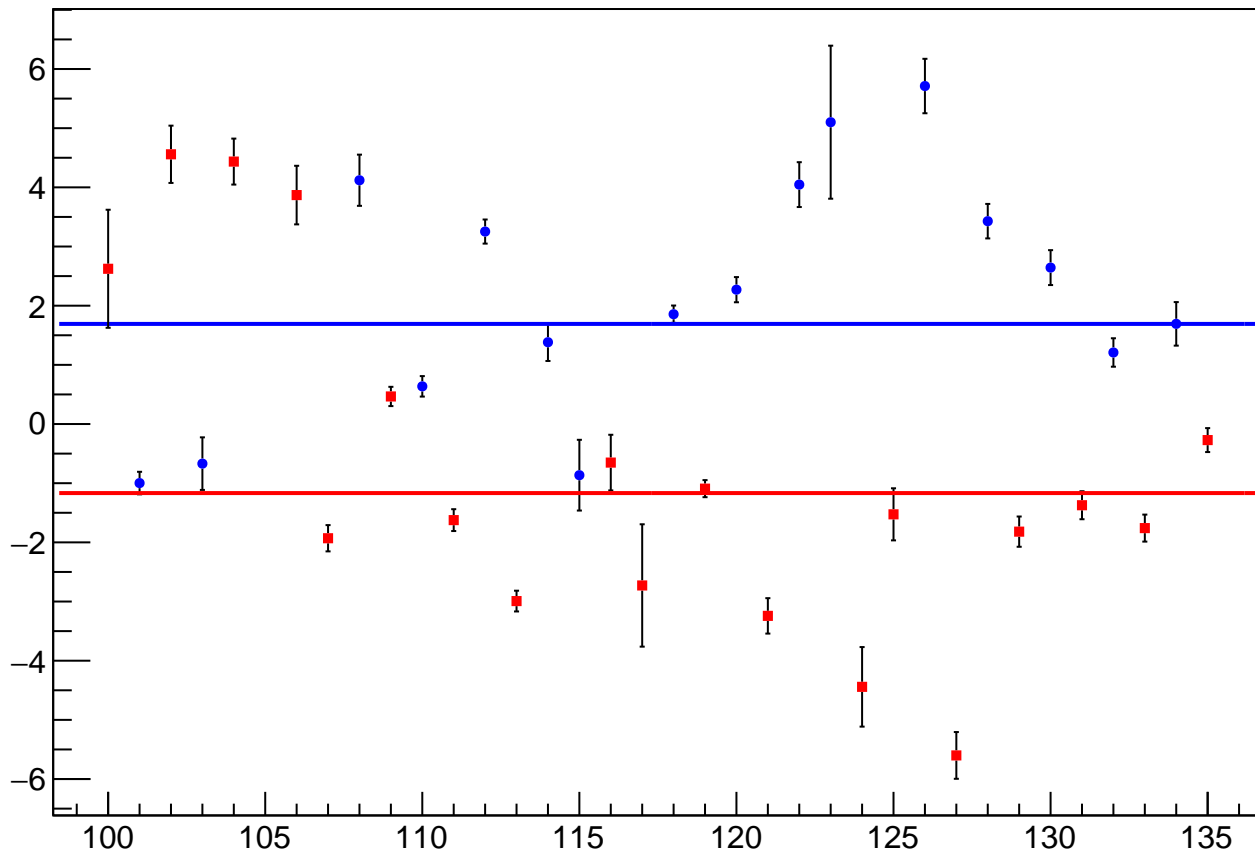
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2.082+/-0.102  $\chi^2$ /NDF: 434.6/15

-0.549+/-0.065  $\chi^2$ /NDF: 2438.5/34

-2.312+/-0.084  $\chi^2$ /NDF: 897.4/18

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.692 $\pm$ 0.065  $\chi^2$ /NDF: 554.7/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.167 $\pm$ 0.059  $\chi^2$ /NDF: 928.3/18

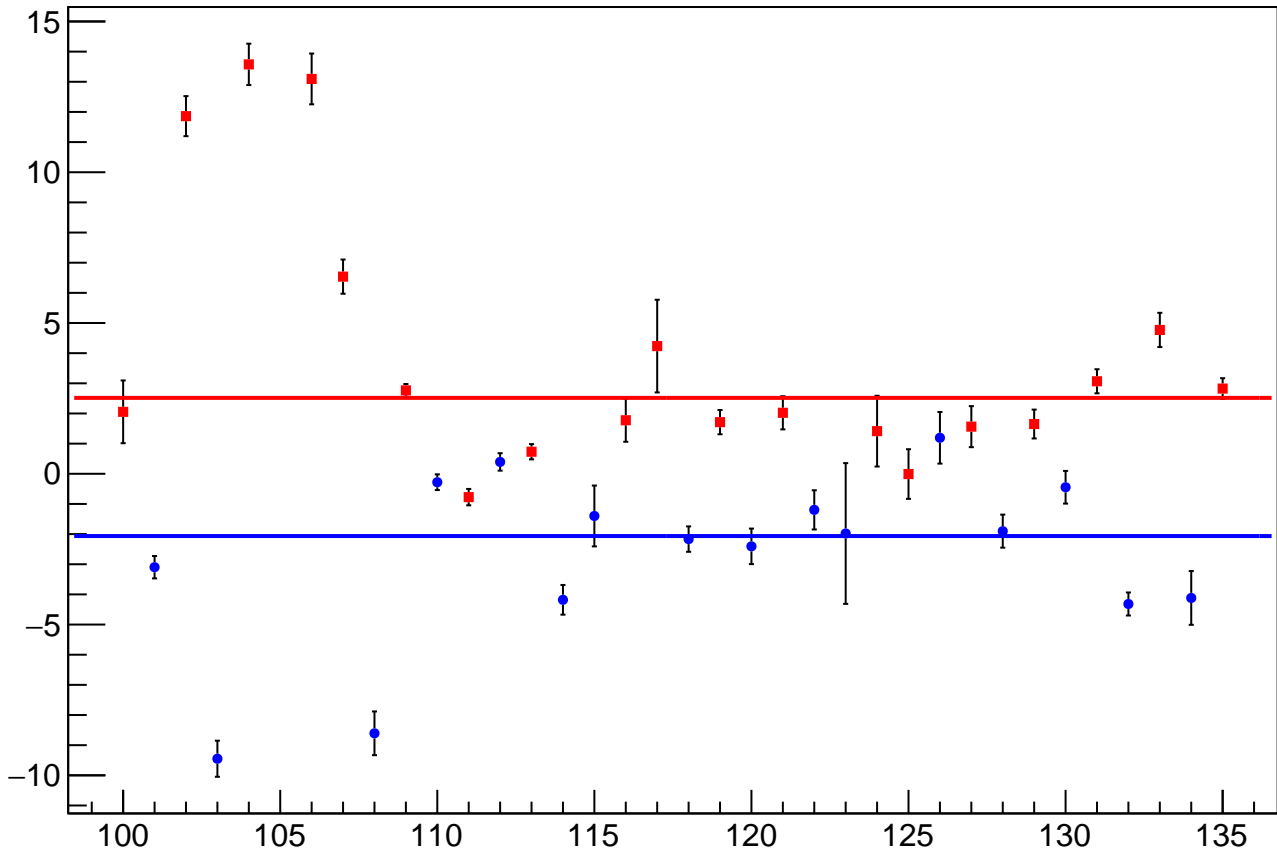
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

1.692 $\pm$ 0.065  $\chi^2$ /NDF: 554.7/15

0.116 $\pm$ 0.044  $\chi^2$ /NDF: 2551.0/34

-1.167 $\pm$ 0.059  $\chi^2$ /NDF: 928.3/18

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.065 \pm 0.119$   $\chi^2/\text{NDF}: 444.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $2.517 \pm 0.100$   $\chi^2/\text{NDF}: 904.8/18$

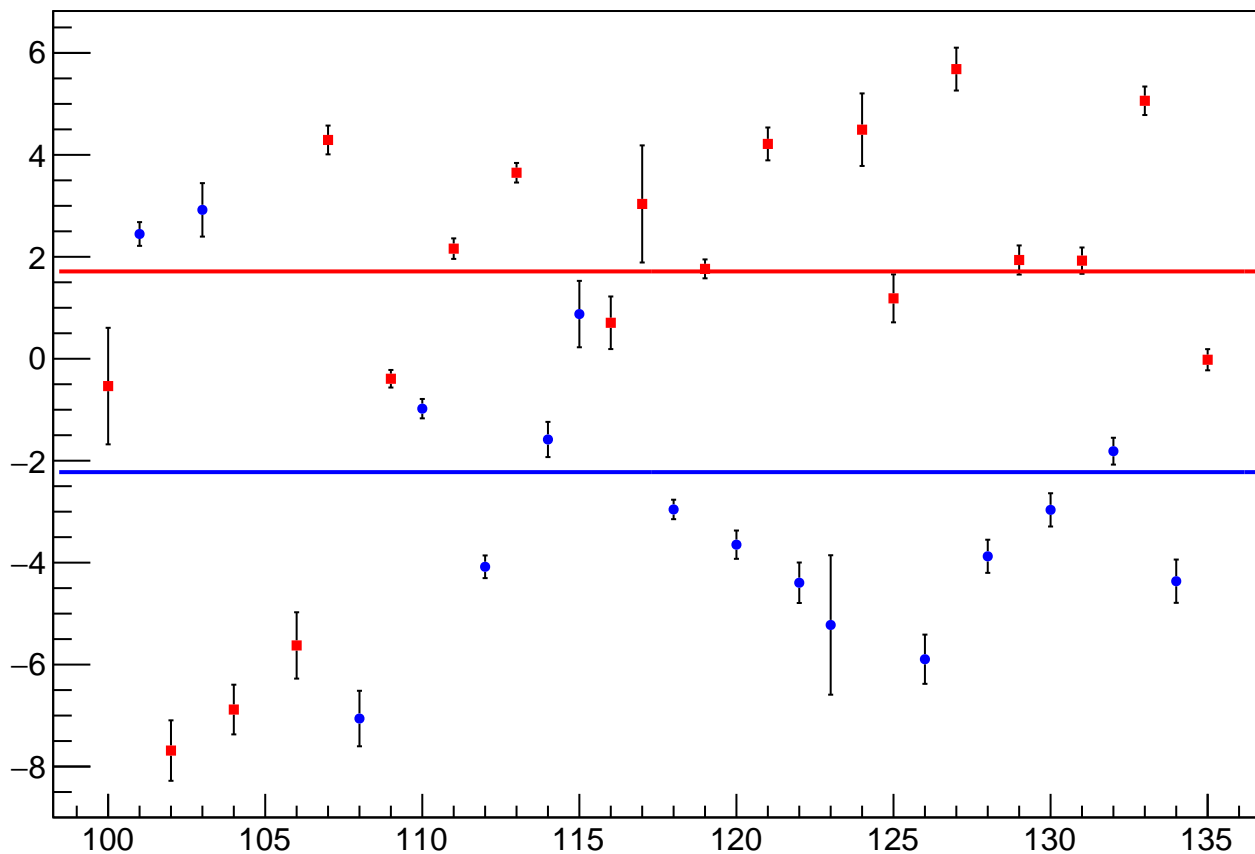
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2.065 \pm 0.119$   $\chi^2/\text{NDF}: 444.9/15$

$0.616 \pm 0.076$   $\chi^2/\text{NDF}: 2221.8/34$

$2.517 \pm 0.100$   $\chi^2/\text{NDF}: 904.8/18$

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -2.224+/-0.076  $\chi^2$ /NDF: 908.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.713+/-0.066  $\chi^2$ /NDF: 1417.2/18

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

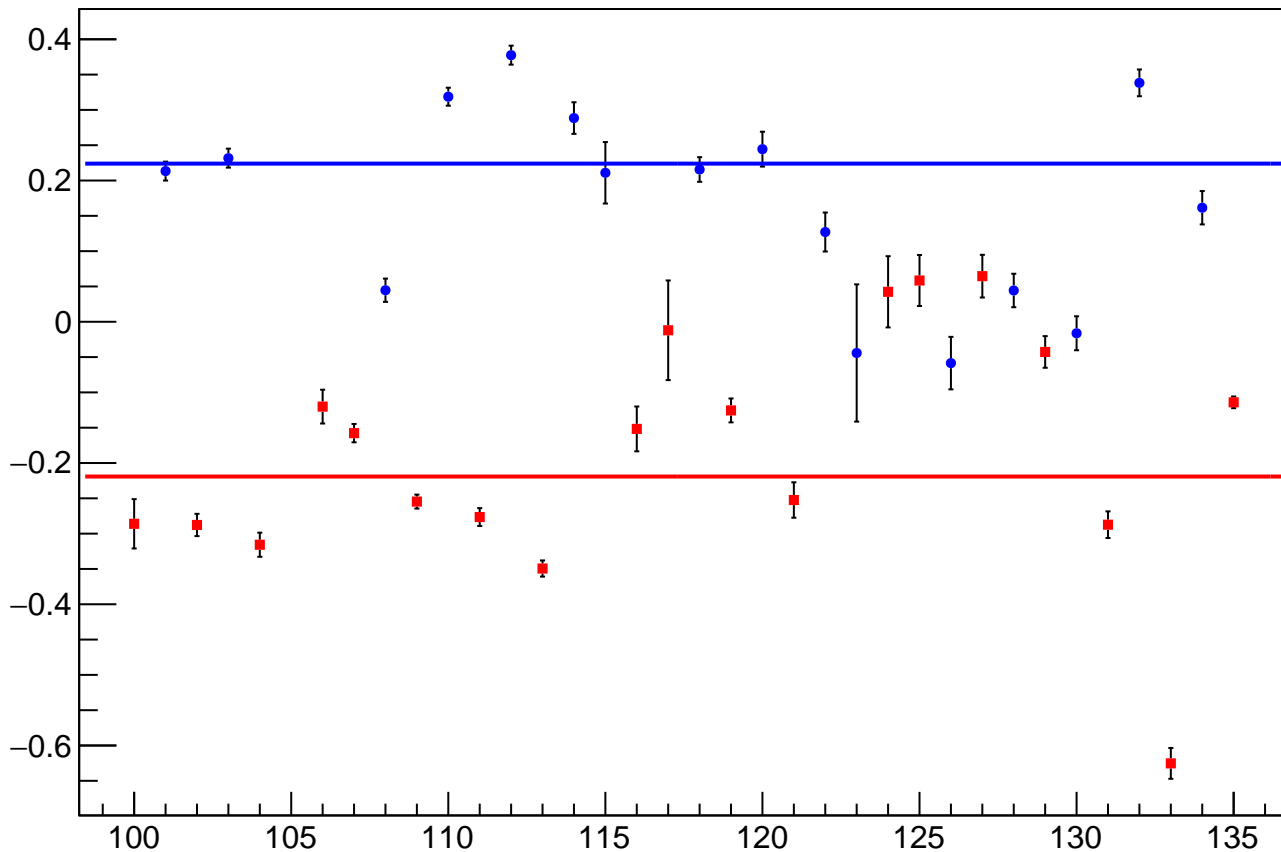
-2.224+/-0.076  $\chi^2$ /NDF: 908.6/15

0.001+/-0.050  $\chi^2$ /NDF: 3854.6/34

1.713+/-0.066  $\chi^2$ /NDF: 1417.2/18



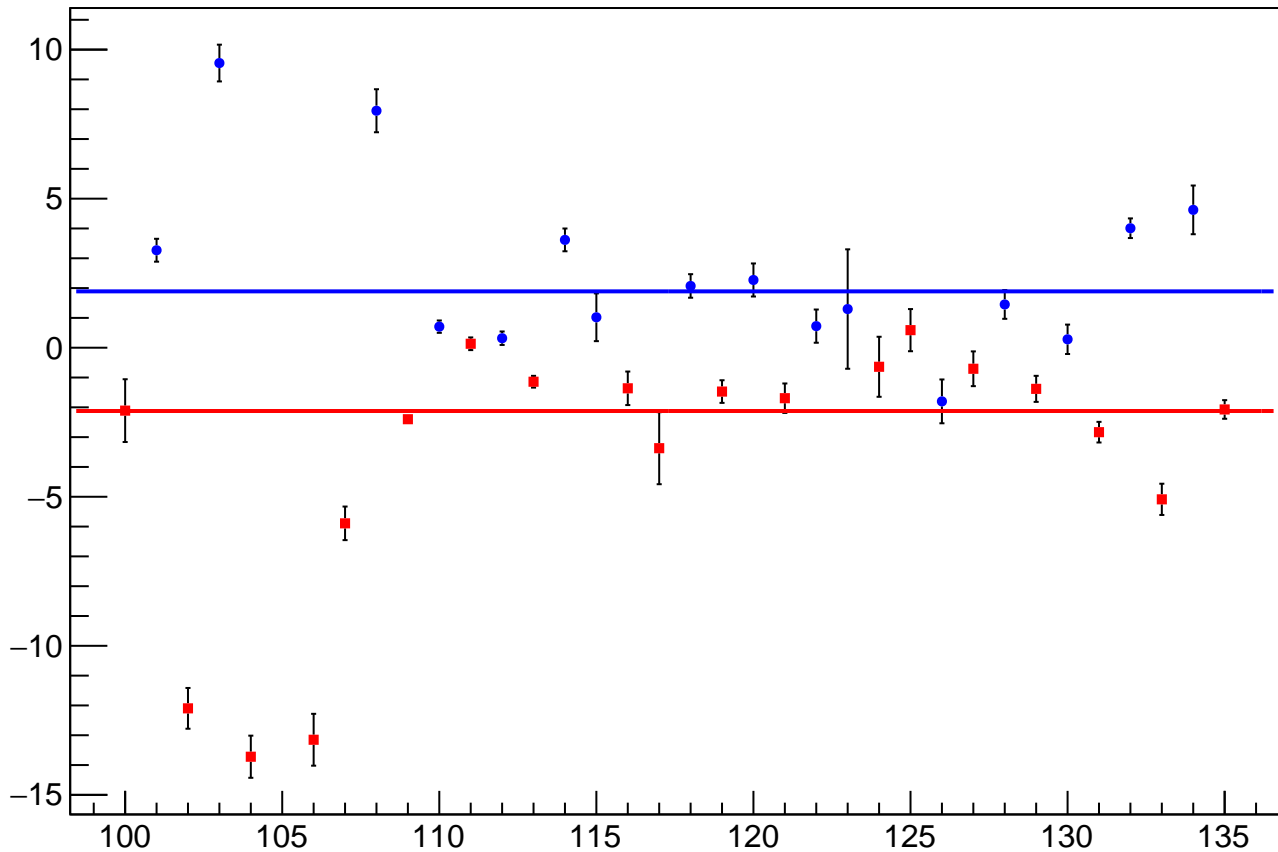
reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.224+/-0.005  $\chi^2$ /NDF: 593.2/15  
 Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 Right Out: -0.219+/-0.004  $\chi^2$ /NDF: 1058.0/18  
 Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.224+/-0.005  $\chi^2$ /NDF: 593.2/15  
 -0.048+/-0.003  $\chi^2$ /NDF: 6969.0/34  
 -0.219+/-0.004  $\chi^2$ /NDF: 1058.0/18

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 1.890 $\pm$ 0.102  $\chi^2$ /NDF: 434.8/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.123 $\pm$ 0.083  $\chi^2$ /NDF: 896.2/18

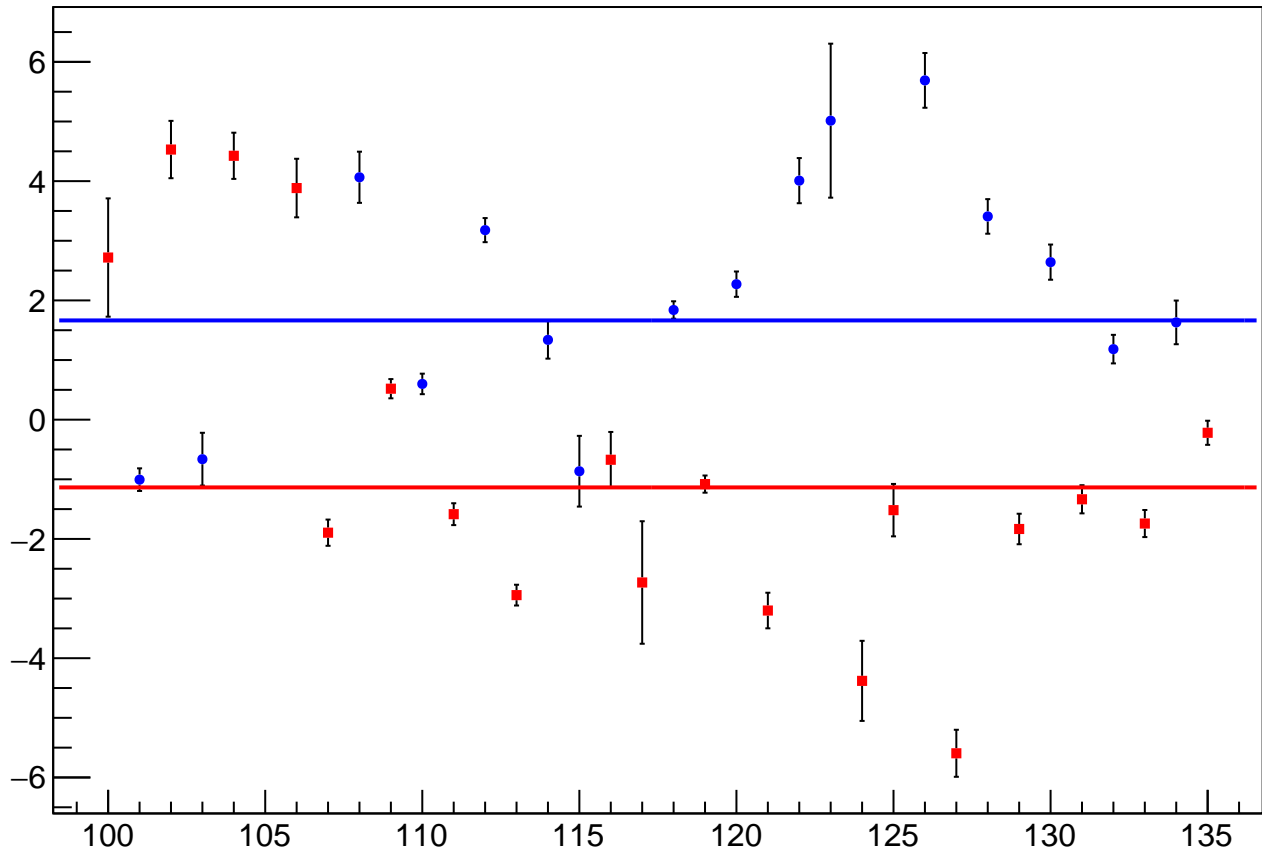
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

1.890 $\pm$ 0.102  $\chi^2$ /NDF: 434.8/15

-0.513 $\pm$ 0.064  $\chi^2$ /NDF: 2264.5/34

-2.123 $\pm$ 0.083  $\chi^2$ /NDF: 896.2/18

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.664±0.065  $\chi^2/\text{NDF}$ : 553.5/15

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

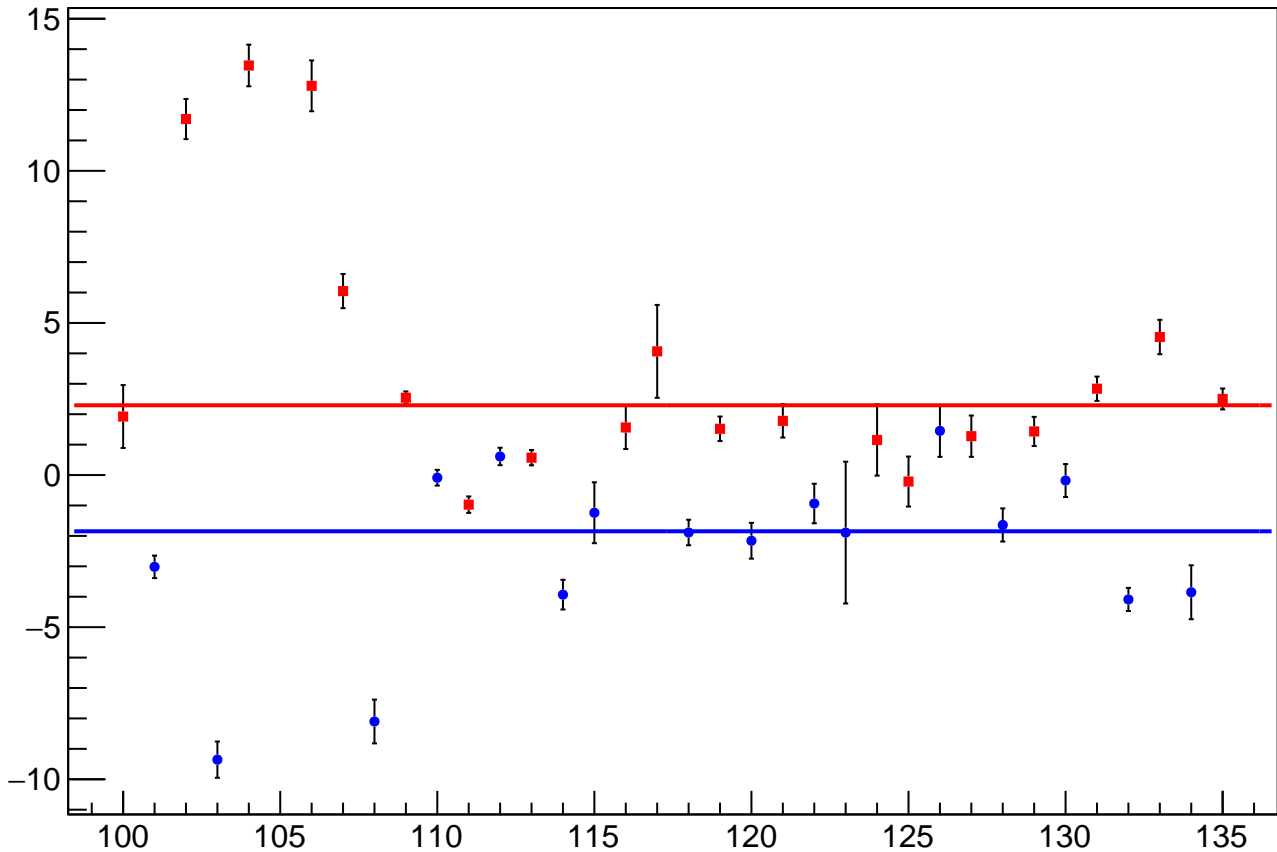
Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.664±0.065  $\chi^2/\text{NDF}$ : 553.5/15

0.121±0.043  $\chi^2/\text{NDF}$ : 2521.7/34

-1.136±0.058  $\chi^2/\text{NDF}$ : 934.3/18

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-1.848 \pm 0.118$   $\chi^2/\text{NDF}: 448.5/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $2.294 \pm 0.099$   $\chi^2/\text{NDF}: 908.3/18$

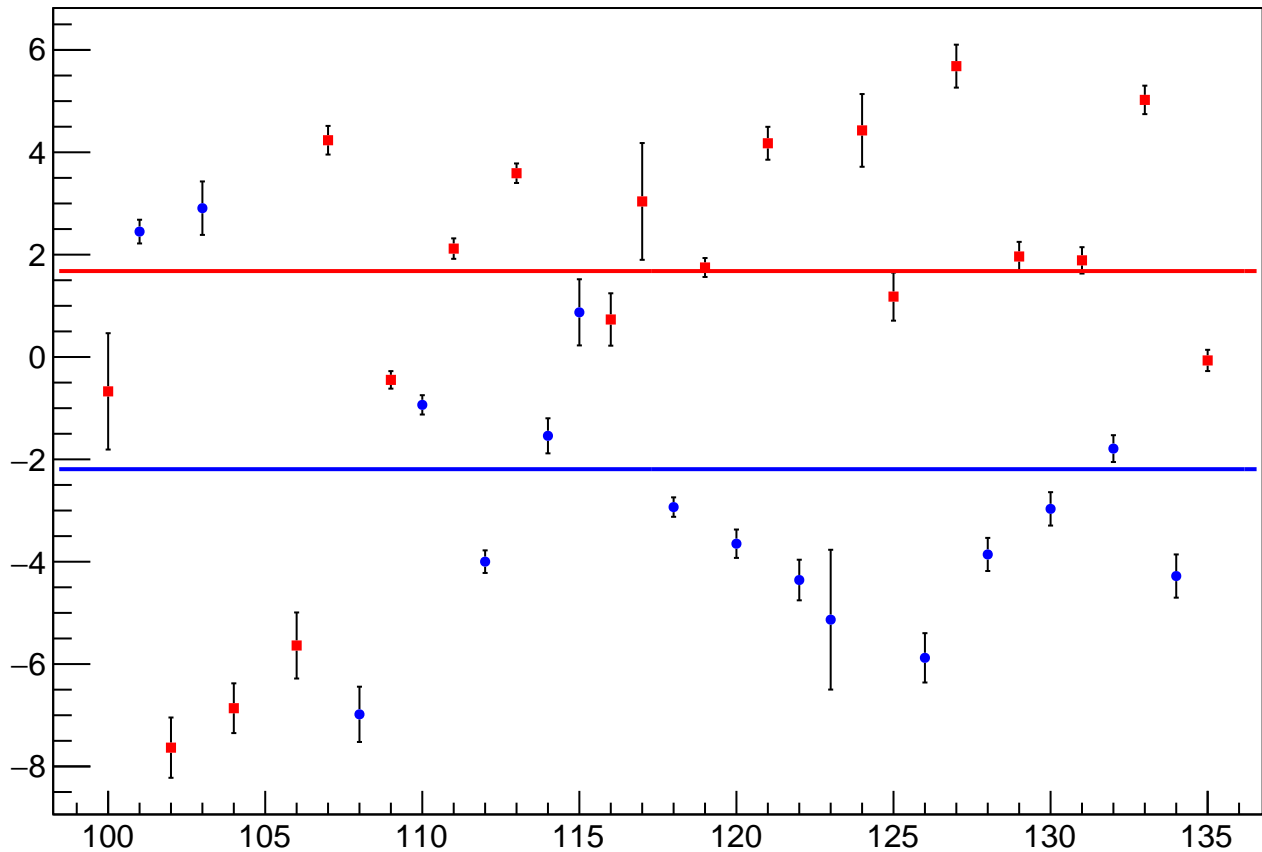
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1.848 \pm 0.118$   $\chi^2/\text{NDF}: 448.5/15$

$0.576 \pm 0.076$   $\chi^2/\text{NDF}: 2076.7/34$

$2.294 \pm 0.099$   $\chi^2/\text{NDF}: 908.3/18$

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-2.192 \pm 0.075$   $\chi^2/\text{NDF}: 907.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1.679 \pm 0.066$   $\chi^2/\text{NDF}: 1424.2/18$

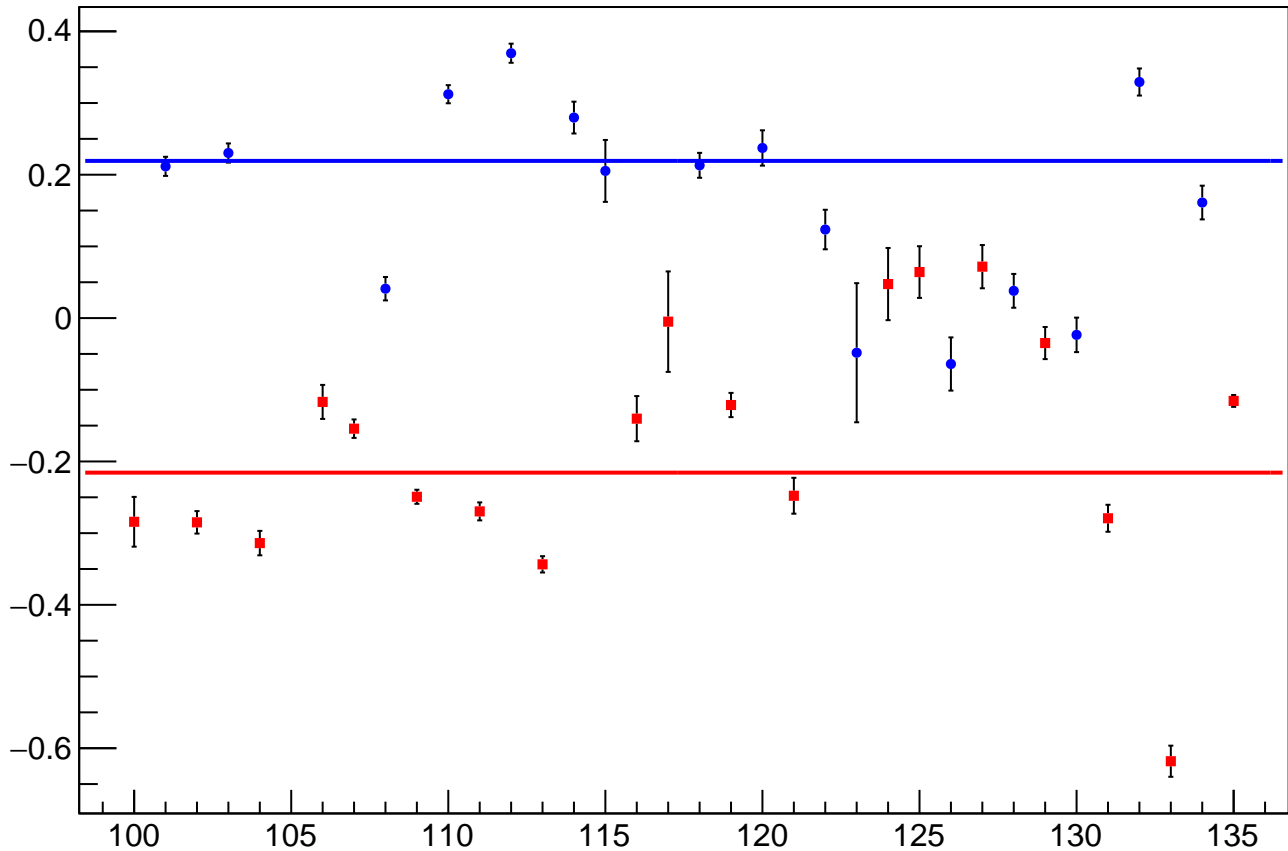
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2.192 \pm 0.075$   $\chi^2/\text{NDF}: 907.0/15$

$-0.004 \pm 0.050$   $\chi^2/\text{NDF}: 3822.5/34$

$1.679 \pm 0.066$   $\chi^2/\text{NDF}: 1424.2/18$

# reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.219+/-0.005  $\chi^2/\text{NDF}$ : 588.1/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.216+/-0.004  $\chi^2/\text{NDF}$ : 1045.3/18

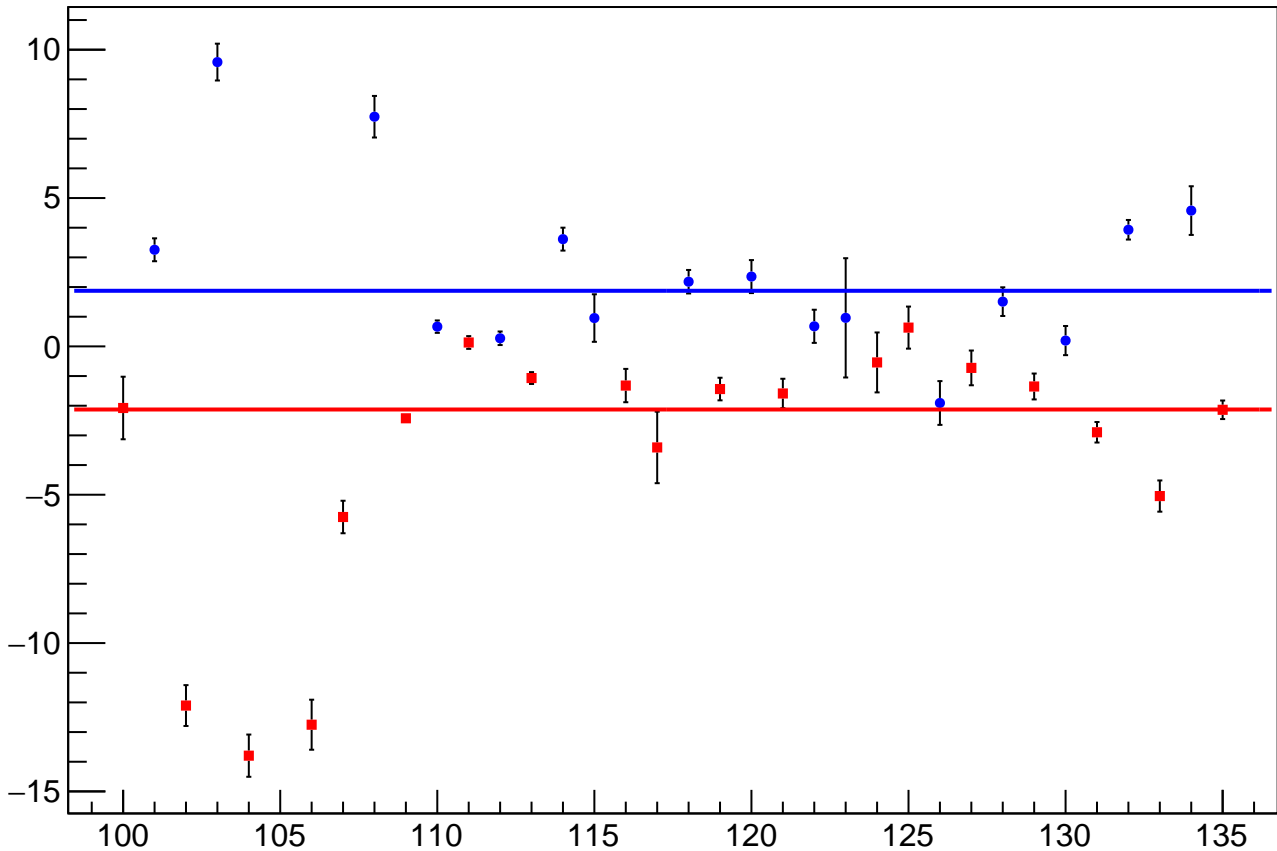
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.219+/-0.005  $\chi^2/\text{NDF}$ : 588.1/15

-0.047+/-0.003  $\chi^2/\text{NDF}$ : 6808.1/34

-0.216+/-0.004  $\chi^2/\text{NDF}$ : 1045.3/18

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 1.874+/-0.102  $\chi^2$ /NDF: 435.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.127+/-0.084  $\chi^2$ /NDF: 893.0/18

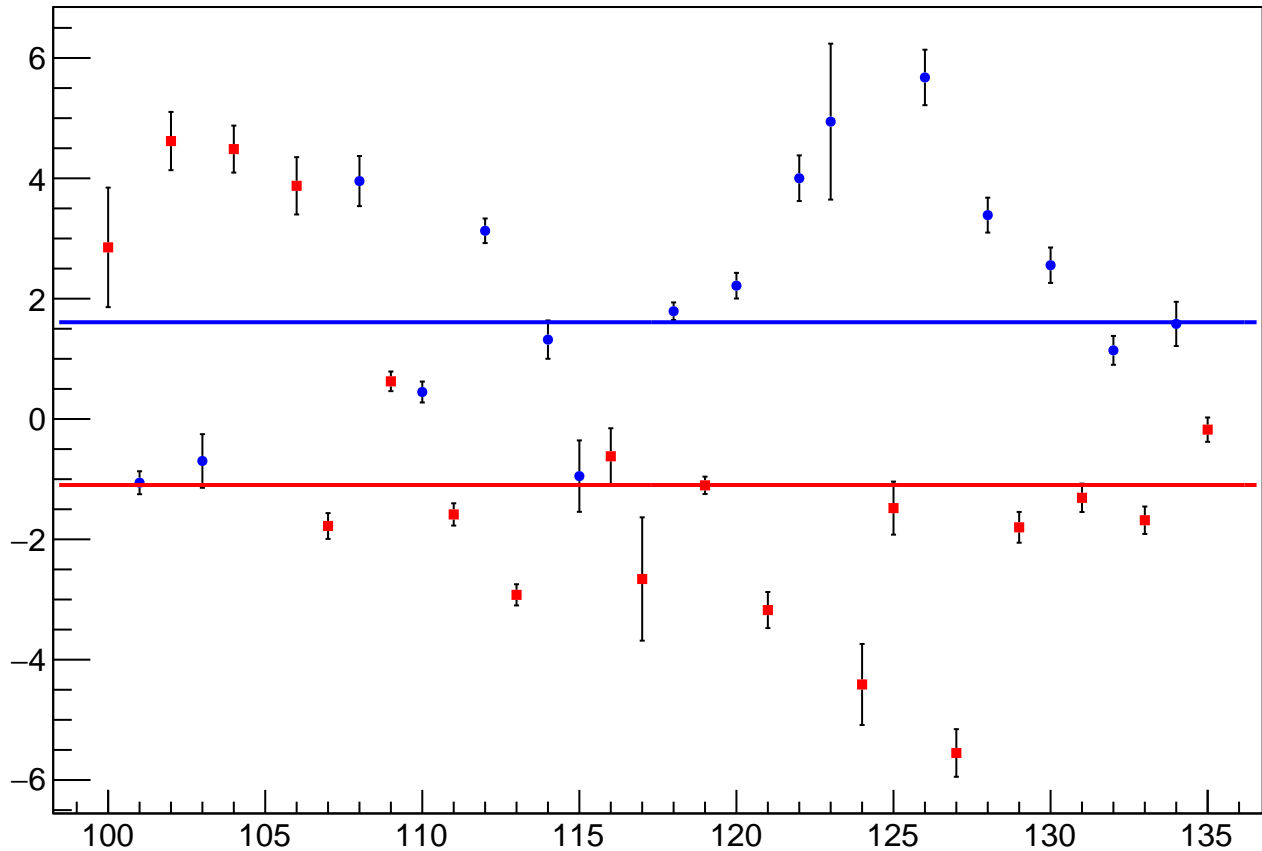
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1.874+/-0.102  $\chi^2$ /NDF: 435.6/15

-0.523+/-0.065  $\chi^2$ /NDF: 2245.4/34

-2.127+/-0.084  $\chi^2$ /NDF: 893.0/18

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.608 $\pm$ 0.065  $\chi^2$ /NDF: 558.8/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.097 $\pm$ 0.058  $\chi^2$ /NDF: 943.9/18

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

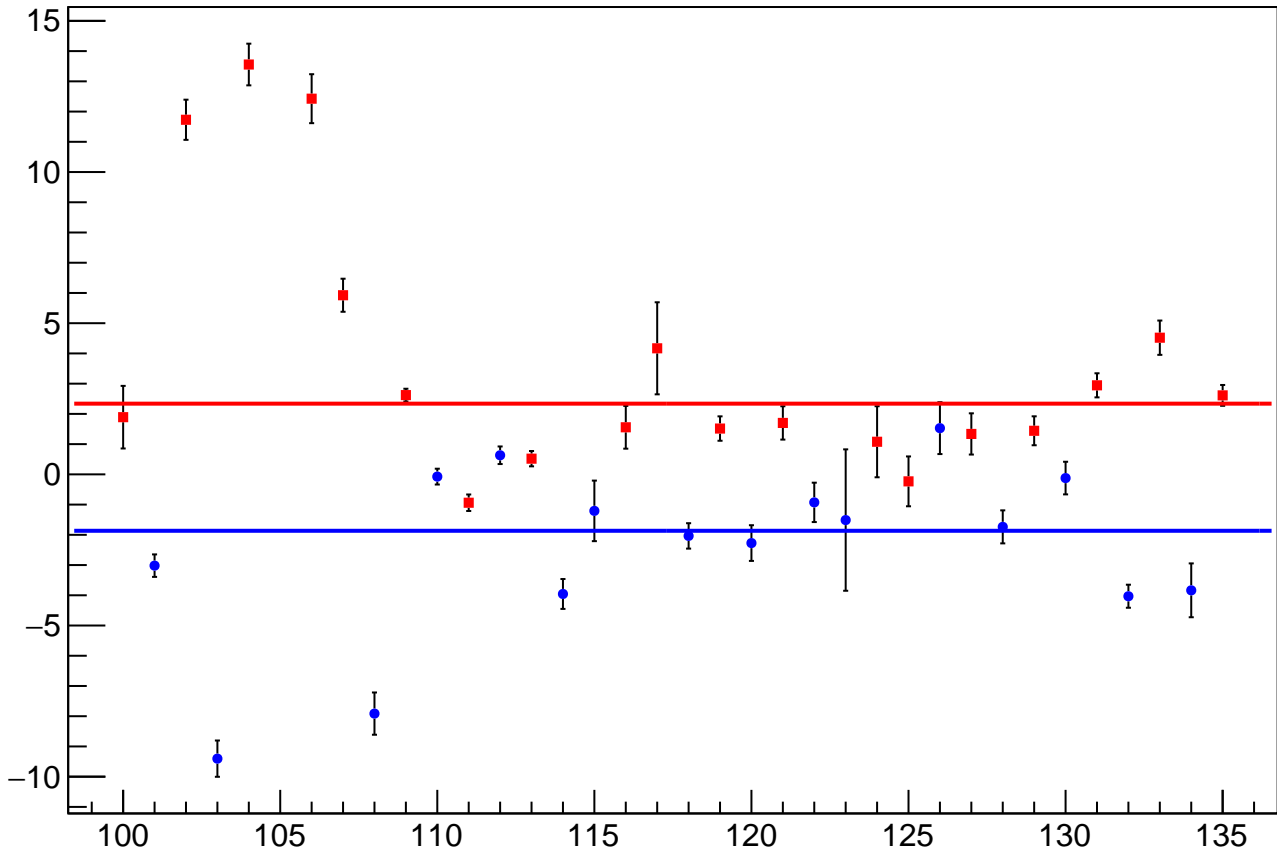
1.608 $\pm$ 0.065  $\chi^2$ /NDF: 558.8/15

0.115 $\pm$ 0.043  $\chi^2$ /NDF: 2461.0/34

-1.097 $\pm$ 0.058  $\chi^2$ /NDF: 943.9/18



# reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-1.866 \pm 0.119$   $\chi^2/\text{NDF}: 447.3/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $2.339 \pm 0.100$   $\chi^2/\text{NDF}: 903.3/18$

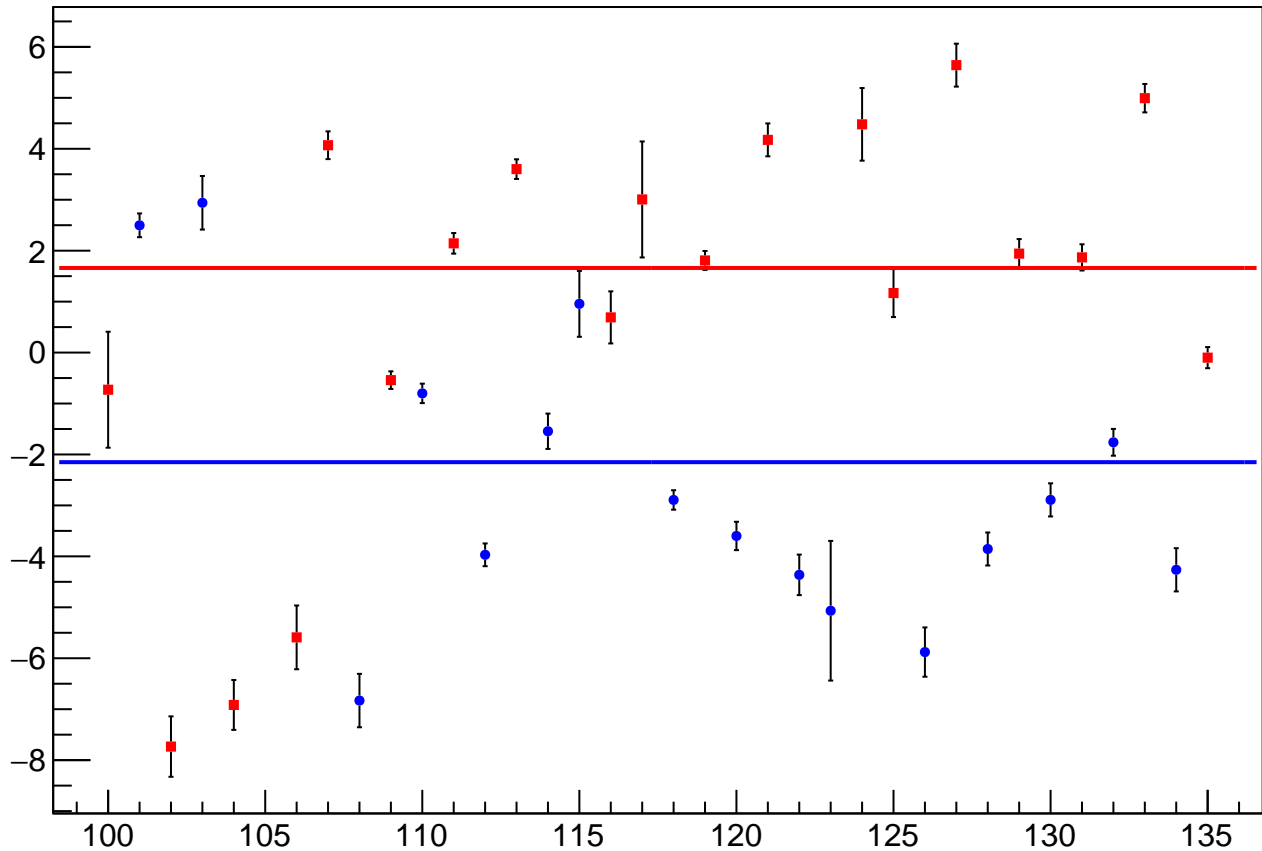
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-1.866 \pm 0.119$   $\chi^2/\text{NDF}: 447.3/15$

$0.596 \pm 0.076$   $\chi^2/\text{NDF}: 2085.0/34$

$2.339 \pm 0.100$   $\chi^2/\text{NDF}: 903.3/18$

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-2.151 \pm 0.076$   $\chi^2/\text{NDF}: 910.2/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1.661 \pm 0.066$   $\chi^2/\text{NDF}: 1432.2/18$

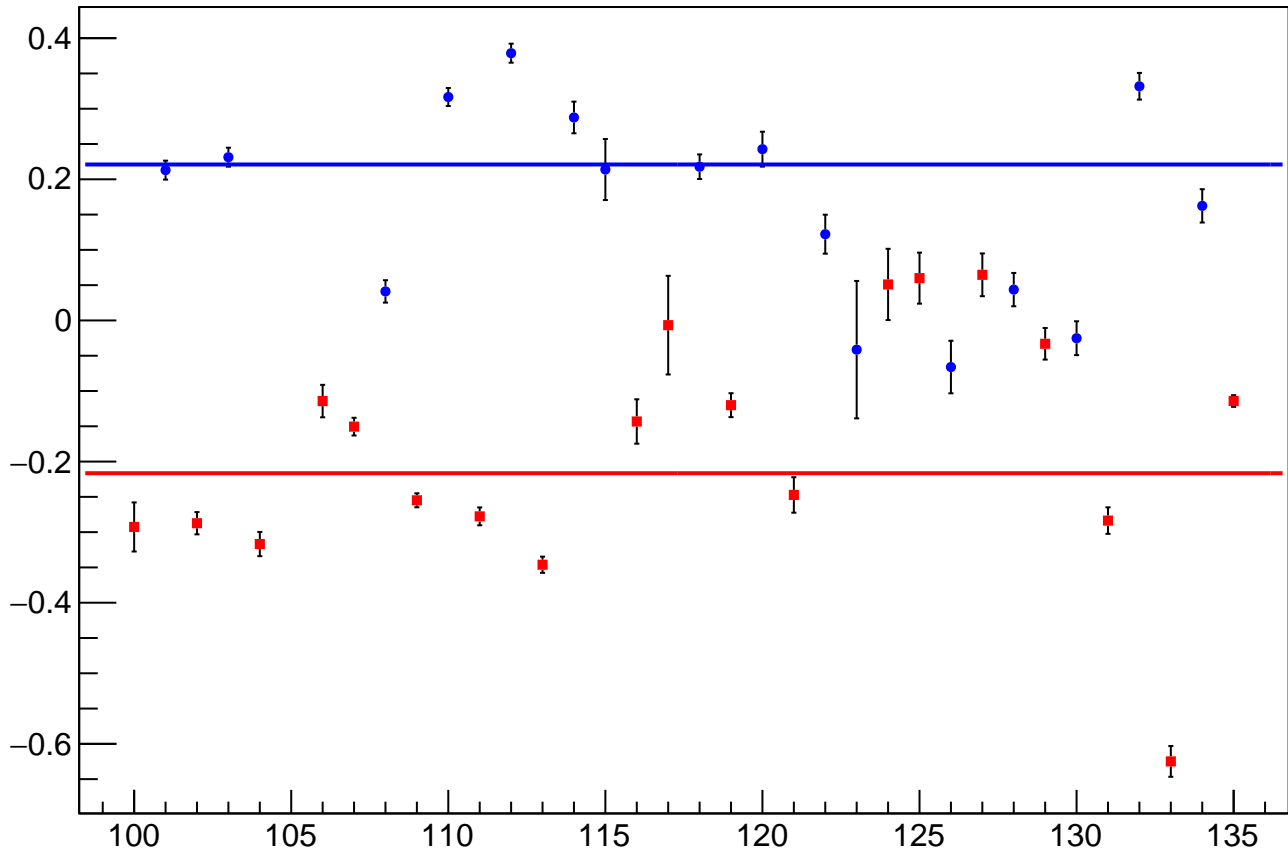
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2.151 \pm 0.076$   $\chi^2/\text{NDF}: 910.2/15$

$0.006 \pm 0.050$   $\chi^2/\text{NDF}: 3776.9/34$

$1.661 \pm 0.066$   $\chi^2/\text{NDF}: 1432.2/18$

# reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.221+/-0.005  $\chi^2$ /NDF: 613.6/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.216+/-0.004  $\chi^2$ /NDF: 1076.2/18

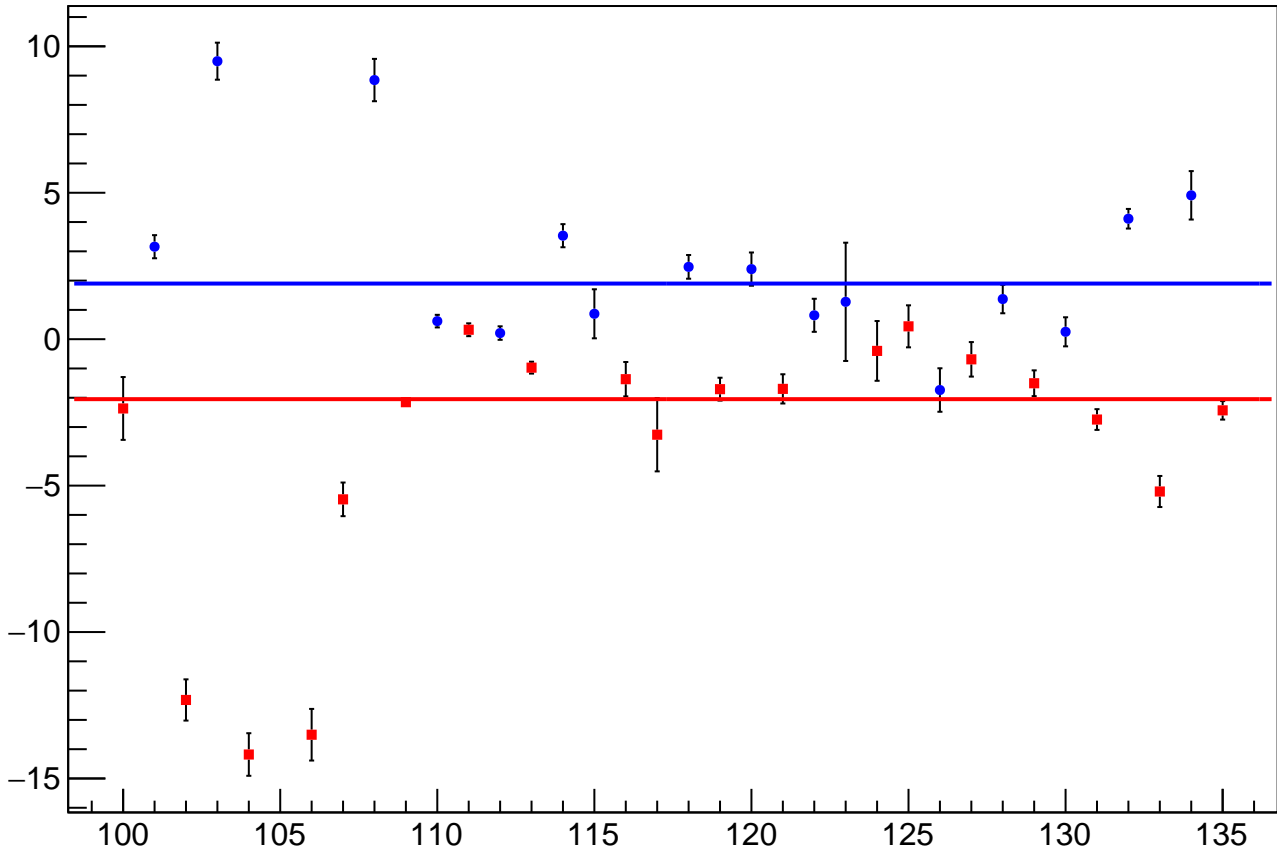
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

0.221+/-0.005  $\chi^2$ /NDF: 613.6/15

-0.047+/-0.003  $\chi^2$ /NDF: 6900.5/34

-0.216+/-0.004  $\chi^2$ /NDF: 1076.2/18

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 1.899 $\pm$ 0.104  $\chi^2$ /NDF: 454.3/15

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.048 $\pm$ 0.086  $\chi^2$ /NDF: 906.8/18

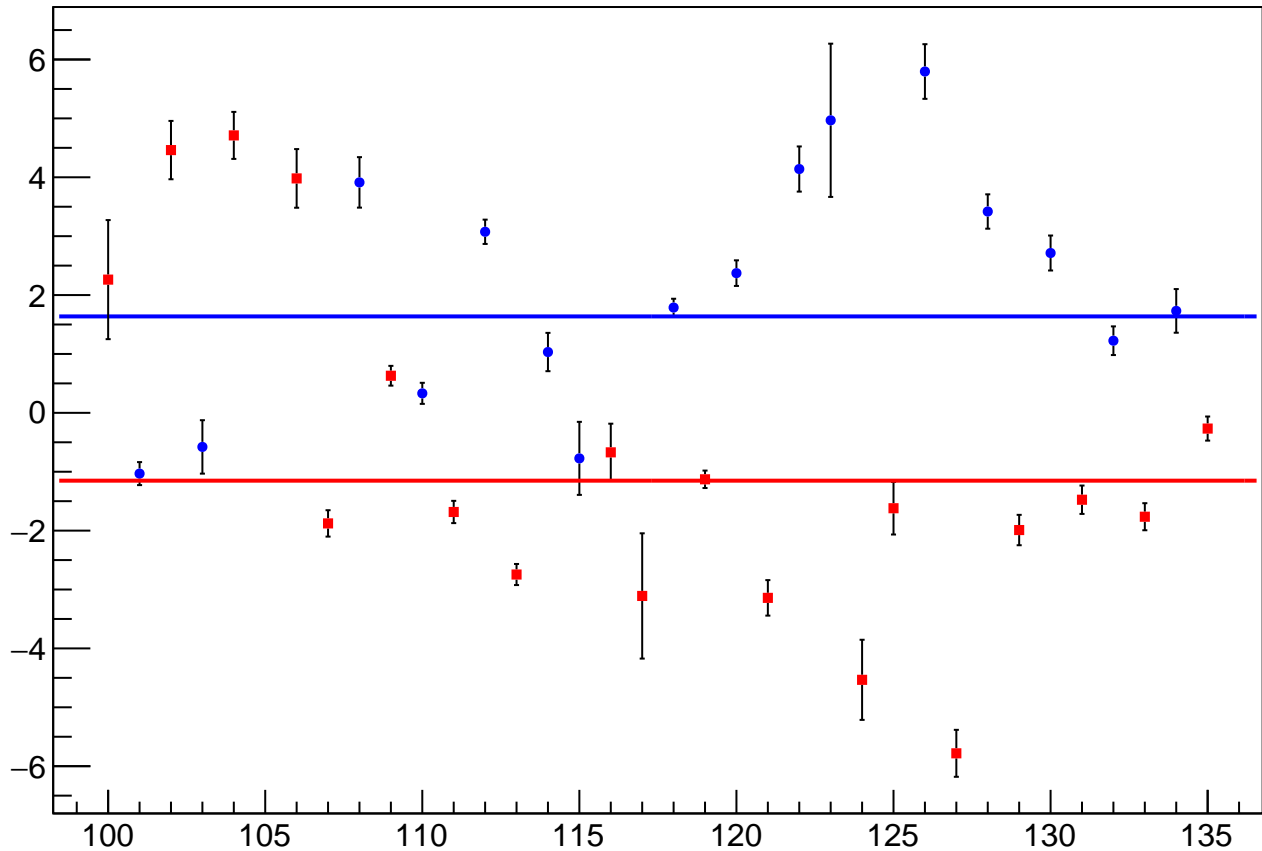
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

1.899 $\pm$ 0.104  $\chi^2$ /NDF: 454.3/15

-0.459 $\pm$ 0.066  $\chi^2$ /NDF: 2218.5/34

-2.048 $\pm$ 0.086  $\chi^2$ /NDF: 906.8/18

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.637+/-0.066  $\chi^2$ /NDF: 554.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.152+/-0.060  $\chi^2$ /NDF: 918.9/18

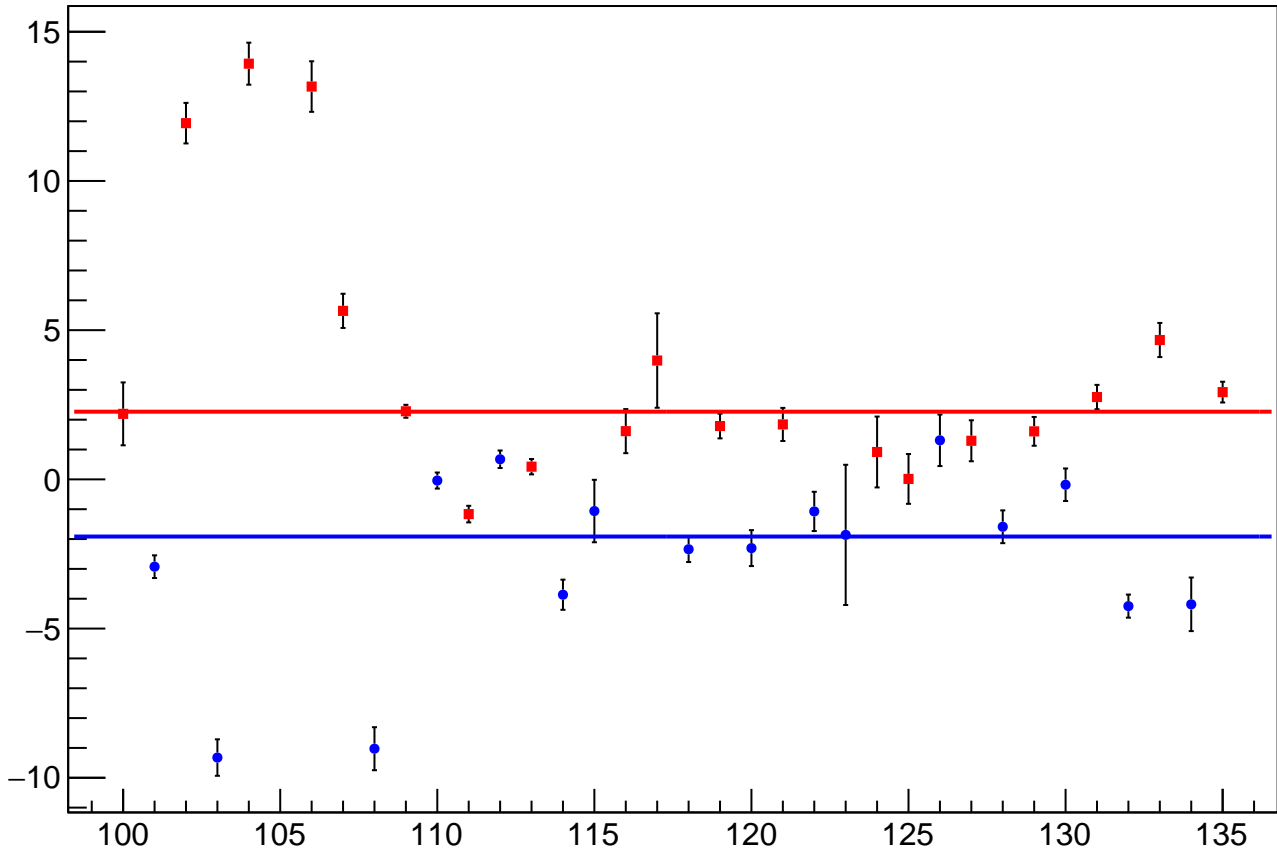
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1.637+/-0.066  $\chi^2$ /NDF: 554.4/15

0.101+/-0.044  $\chi^2$ /NDF: 2452.2/34

-1.152+/-0.060  $\chi^2$ /NDF: 918.9/18

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-1.916 \pm 0.121$   $\chi^2/\text{NDF}$ : 463.2/15

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $2.268 \pm 0.102$   $\chi^2/\text{NDF}$ : 919.5/18

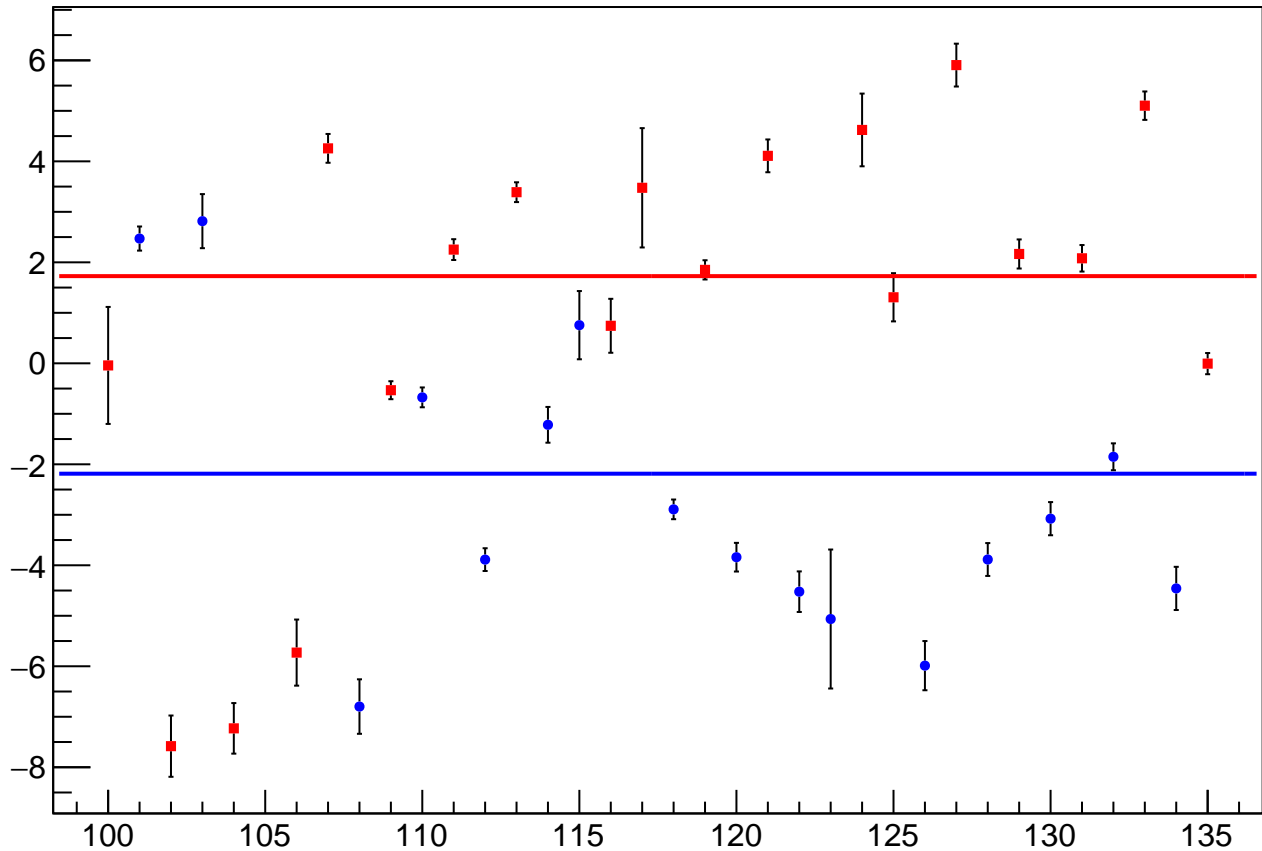
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-1.916 \pm 0.121$   $\chi^2/\text{NDF}$ : 463.2/15

$0.528 \pm 0.078$   $\chi^2/\text{NDF}$ : 2081.7/34

$2.268 \pm 0.102$   $\chi^2/\text{NDF}$ : 919.5/18

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-2.186 \pm 0.077$   $\chi^2/\text{NDF}: 894.0/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1.727 \pm 0.068$   $\chi^2/\text{NDF}: 1395.6/18$

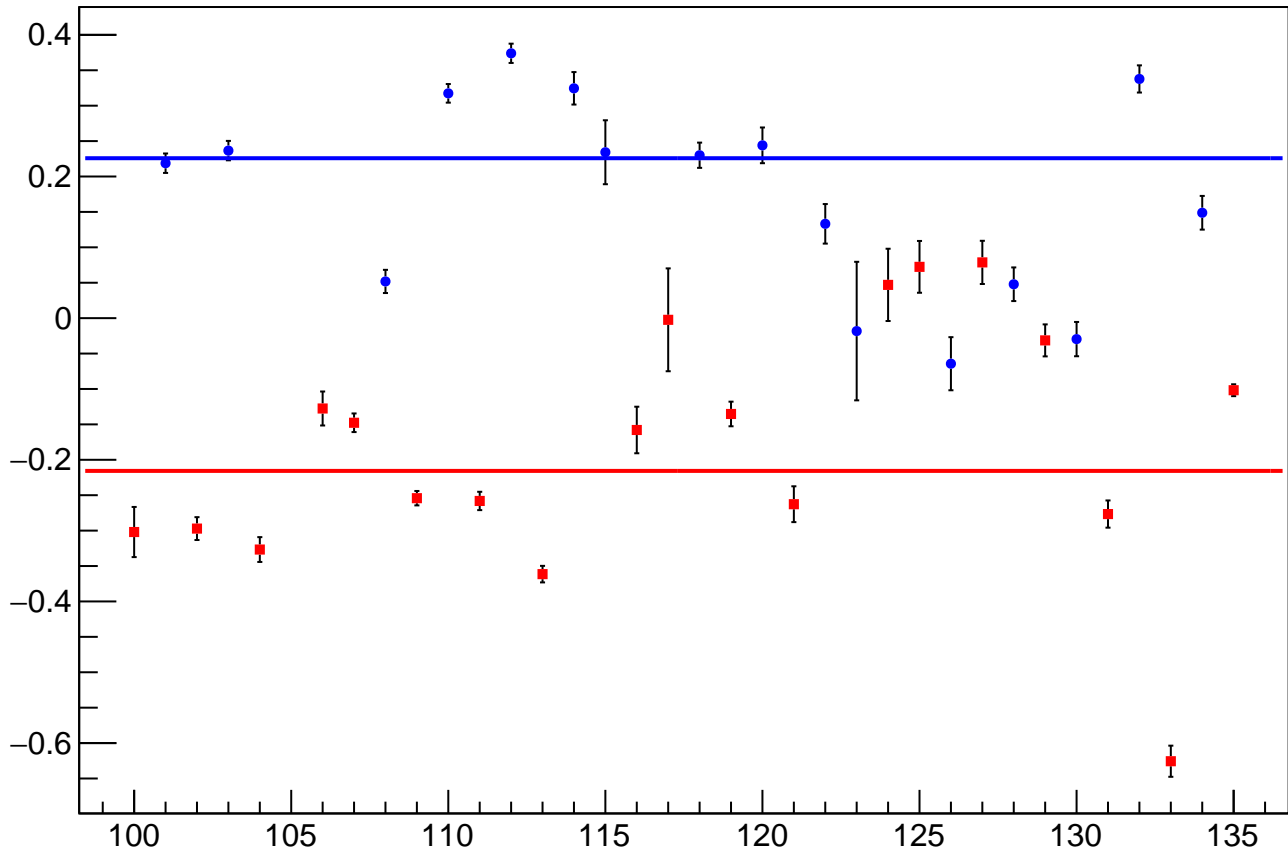
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2.186 \pm 0.077$   $\chi^2/\text{NDF}: 894.0/15$

$0.024 \pm 0.051$   $\chi^2/\text{NDF}: 3743.9/34$

$1.727 \pm 0.068$   $\chi^2/\text{NDF}: 1395.6/18$

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.226+/-0.005  $\chi^2/\text{NDF}$ : 588.9/15

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.216+/-0.004  $\chi^2/\text{NDF}$ : 1120.0/18

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

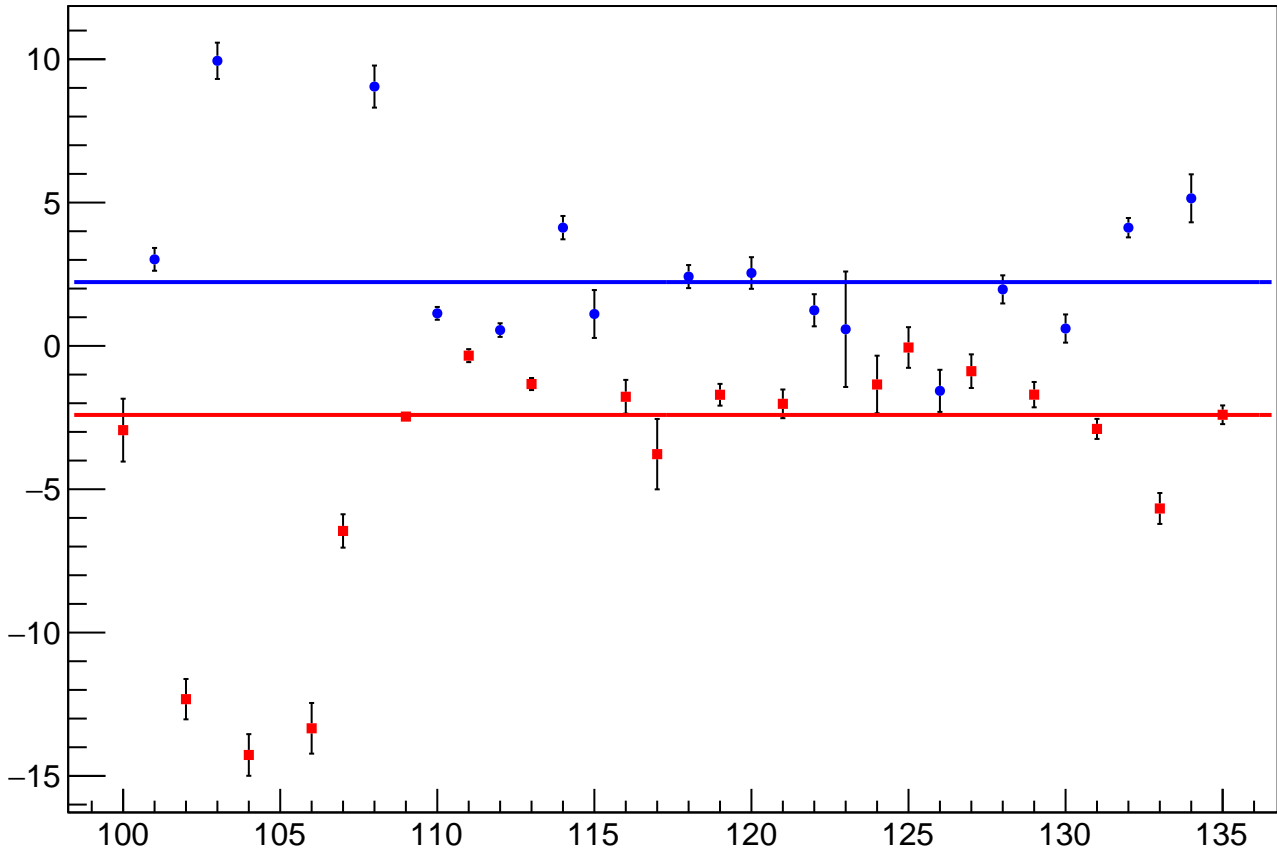
0.226+/-0.005  $\chi^2/\text{NDF}$ : 588.9/15

-0.045+/-0.003  $\chi^2/\text{NDF}$ : 6809.3/34

-0.216+/-0.004  $\chi^2/\text{NDF}$ : 1120.0/18



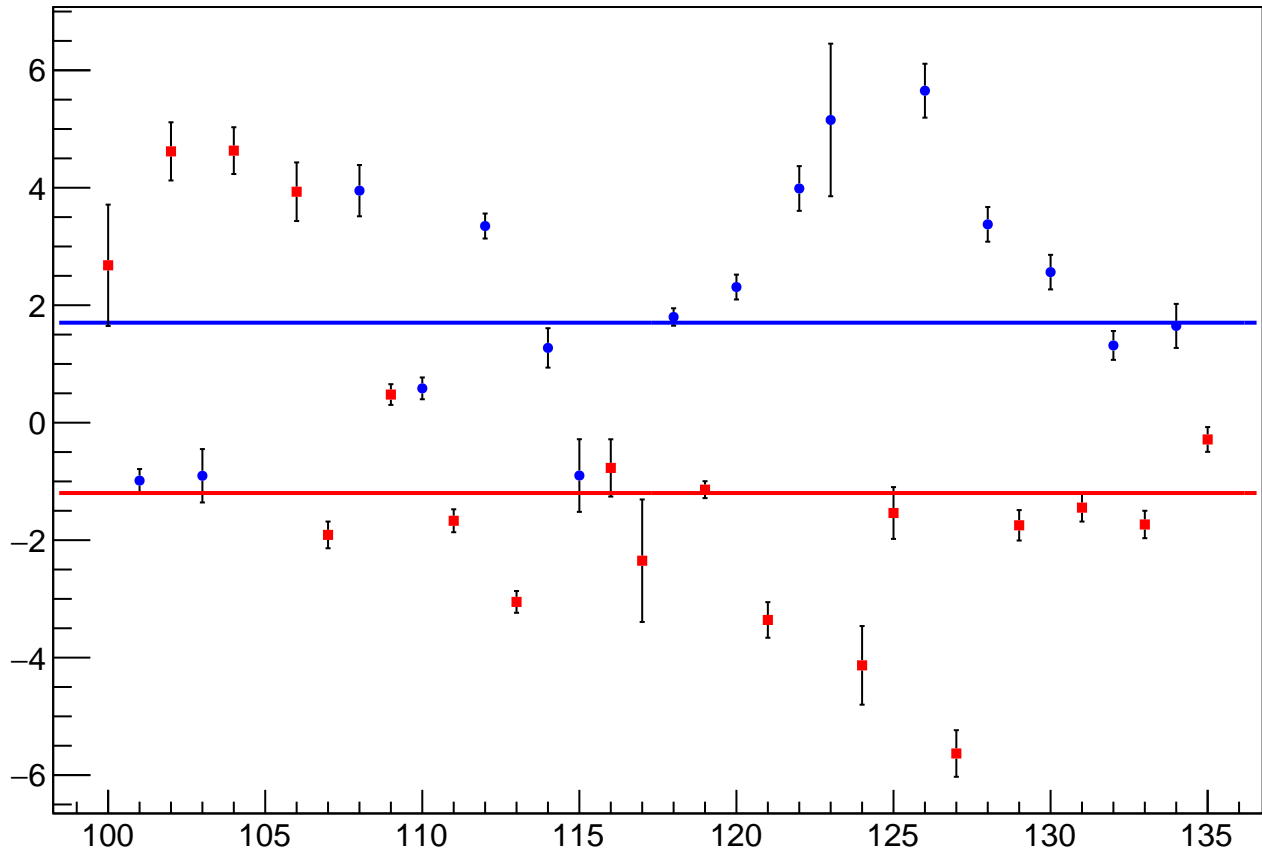
# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aX\_slope vs Slug, Sign Corrected



Right In: 2.226+/-0.106  $\chi^2$ /NDF: 421.8/15  
Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
Right Out: -2.408+/-0.088  $\chi^2$ /NDF: 842.9/18  
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

2.226+/-0.106  $\chi^2$ /NDF: 421.8/15  
-0.526+/-0.068  $\chi^2$ /NDF: 2400.4/34  
-2.408+/-0.088  $\chi^2$ /NDF: 842.9/18

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.702+/-0.067  $\chi^2$ /NDF: 530.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.198+/-0.060  $\chi^2$ /NDF: 904.7/18

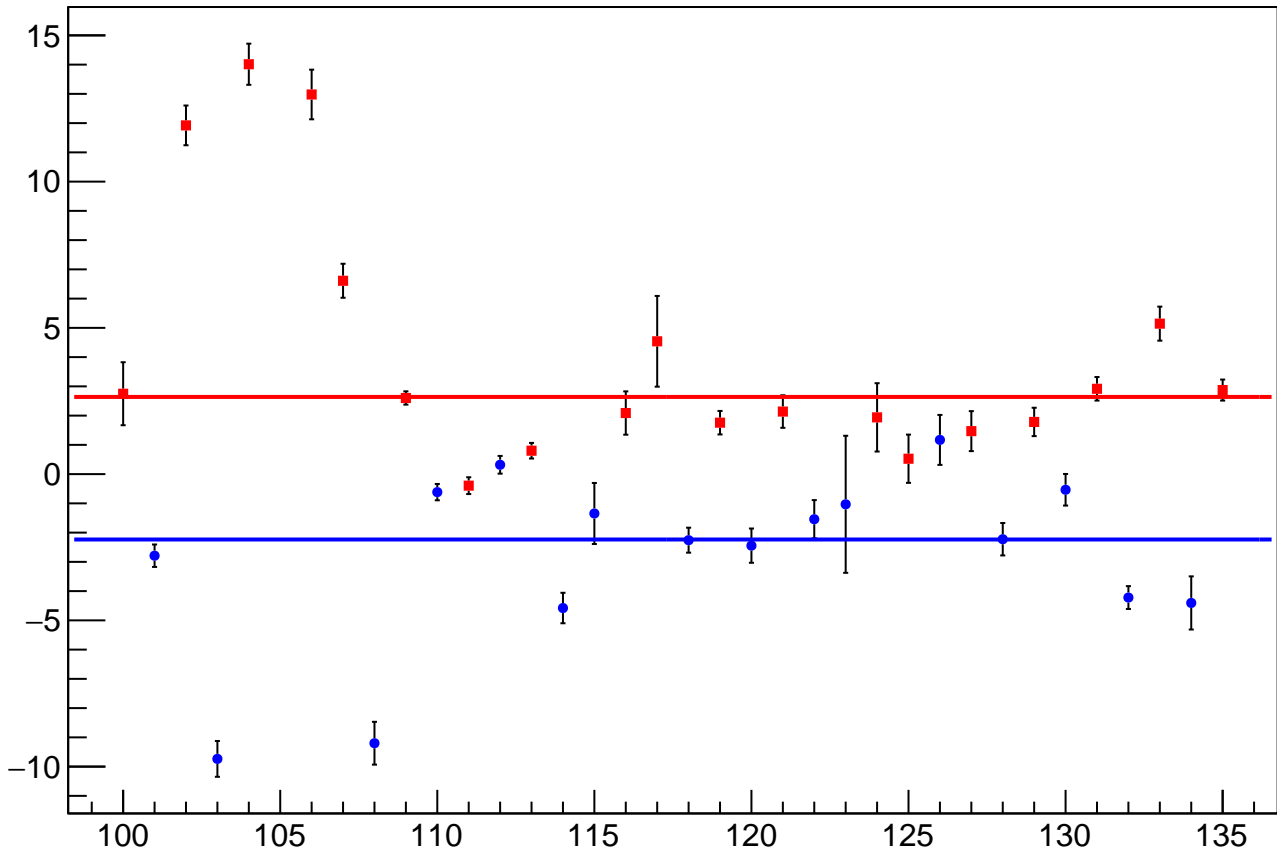
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

1.702+/-0.067  $\chi^2$ /NDF: 530.4/15

0.112+/-0.045  $\chi^2$ /NDF: 2473.7/34

-1.198+/-0.060  $\chi^2$ /NDF: 904.7/18

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -2.235+/-0.123  $\chi^2$ /NDF: 427.4/15

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.639+/-0.104  $\chi^2$ /NDF: 842.6/18

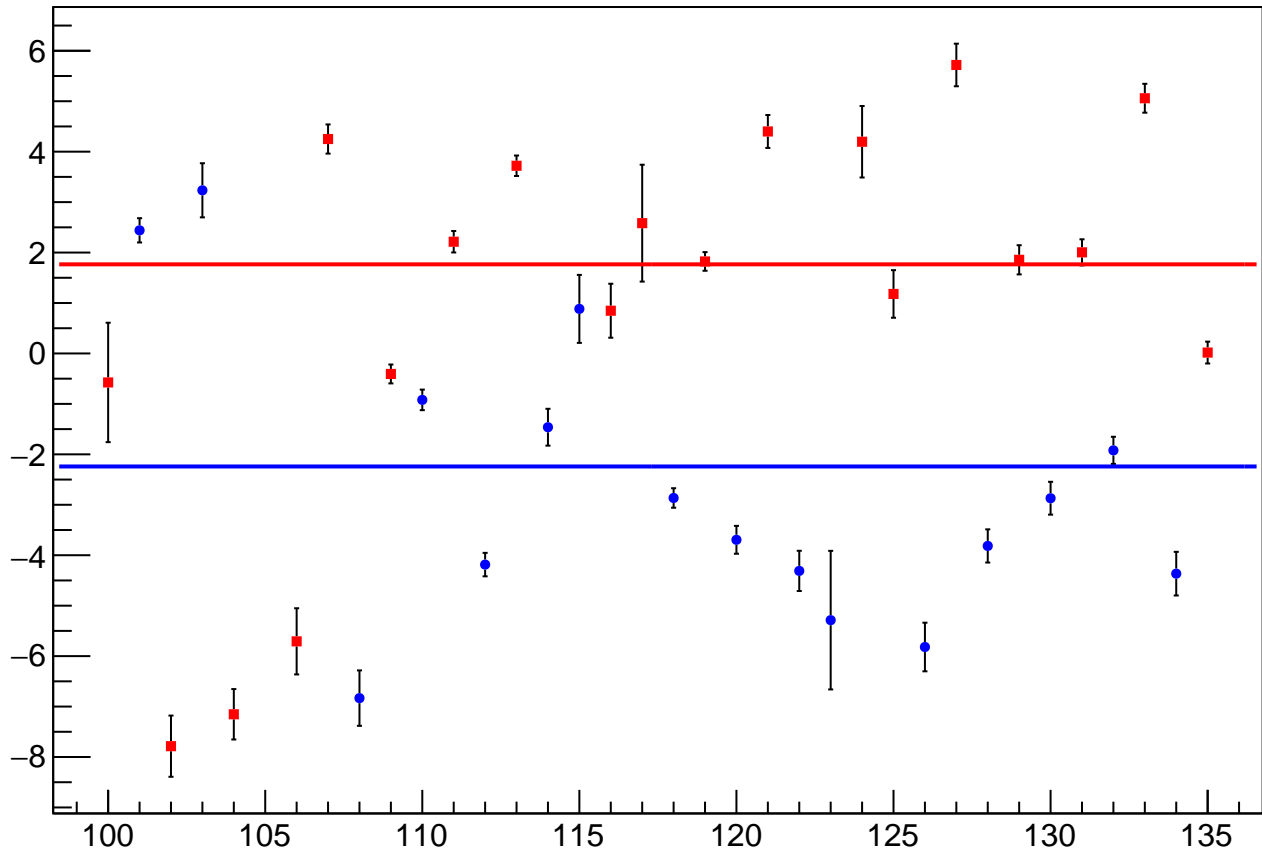
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-2.235+/-0.123  $\chi^2$ /NDF: 427.4/15

0.595+/-0.079  $\chi^2$ /NDF: 2186.0/34

2.639+/-0.104  $\chi^2$ /NDF: 842.6/18

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-2.241 \pm 0.078$   $\chi^2/\text{NDF}: 867.9/15$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1.766 \pm 0.069$   $\chi^2/\text{NDF}: 1373.9/18$

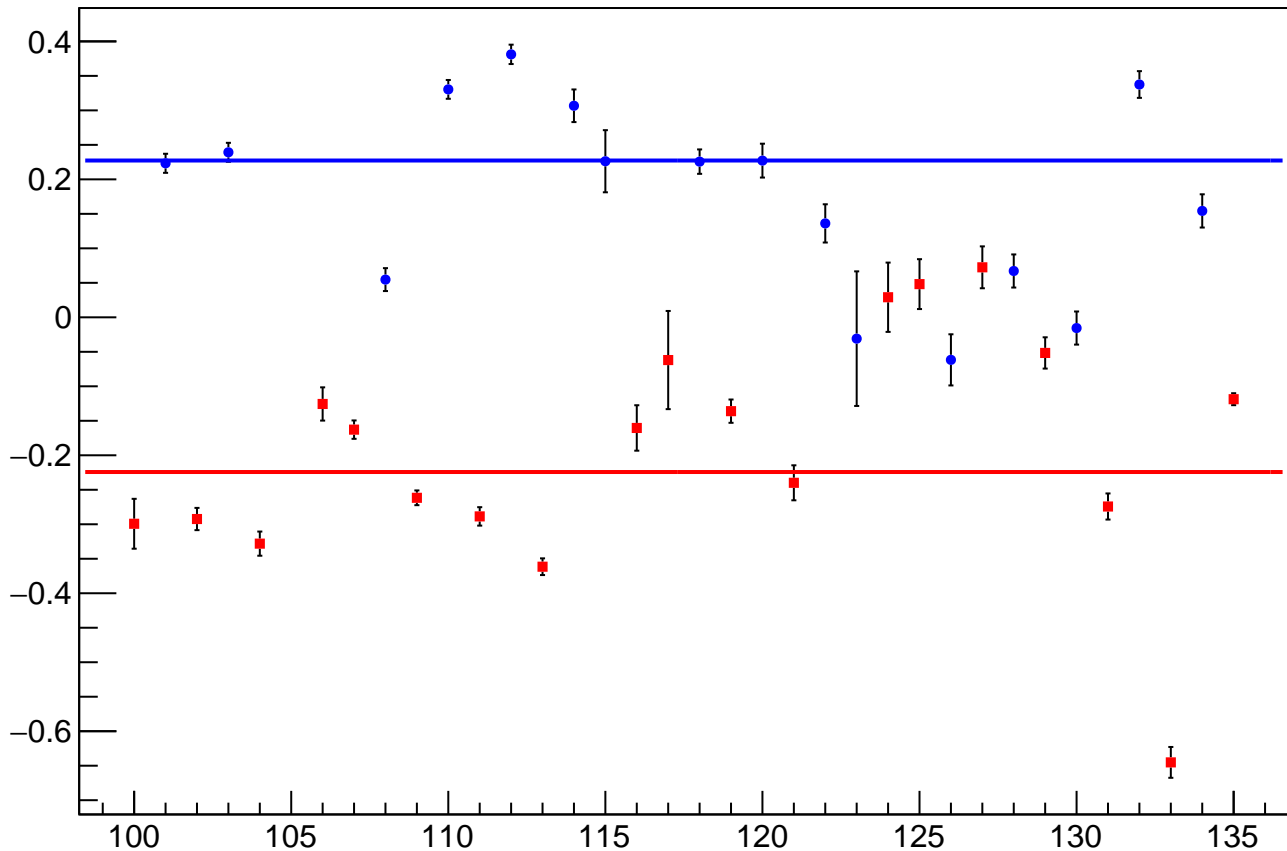
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-2.241 \pm 0.078$   $\chi^2/\text{NDF}: 867.9/15$

$0.012 \pm 0.051$   $\chi^2/\text{NDF}: 3732.3/34$

$1.766 \pm 0.069$   $\chi^2/\text{NDF}: 1373.9/18$

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.227 $\pm$ 0.005  $\chi^2$ /NDF: 564.5/15

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

0.227 $\pm$ 0.005  $\chi^2$ /NDF: 564.5/15

-0.048 $\pm$ 0.003  $\chi^2$ /NDF: 6787.0/34

-0.224 $\pm$ 0.004  $\chi^2$ /NDF: 1042.0/18