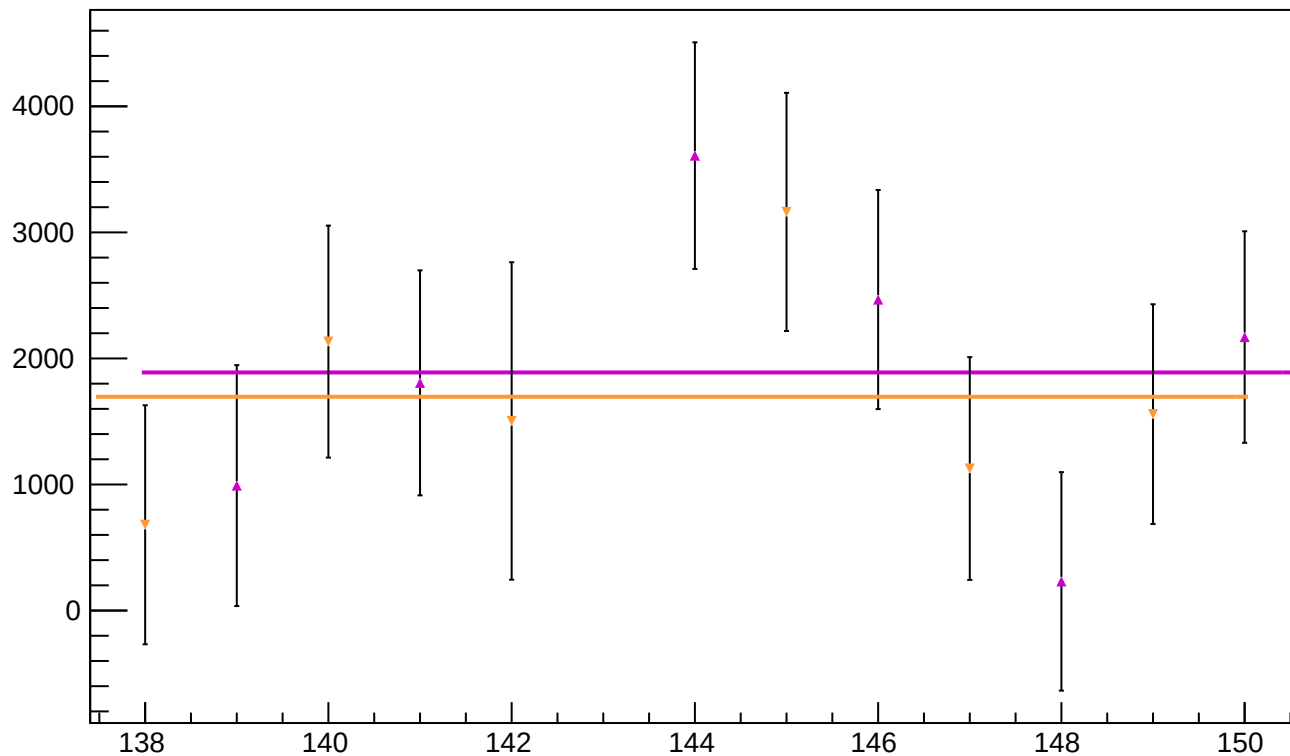


reg\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000

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

Left Out: 1695.960+/-388.023

$\chi^2/\text{NDF}$ : 4.2/5

Right Out: 0.000+/-0.000

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

Left In: 1888.977+/-361.201

$\chi^2/\text{NDF}$ : 8.8/5

Left: 1799.369+/-264.382

$\chi^2/\text{NDF}$ : 13.1/11

Right: 0.000+/-0.000

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

In: 1888.977+/-361.201

$\chi^2/\text{NDF}$ : 8.8/5

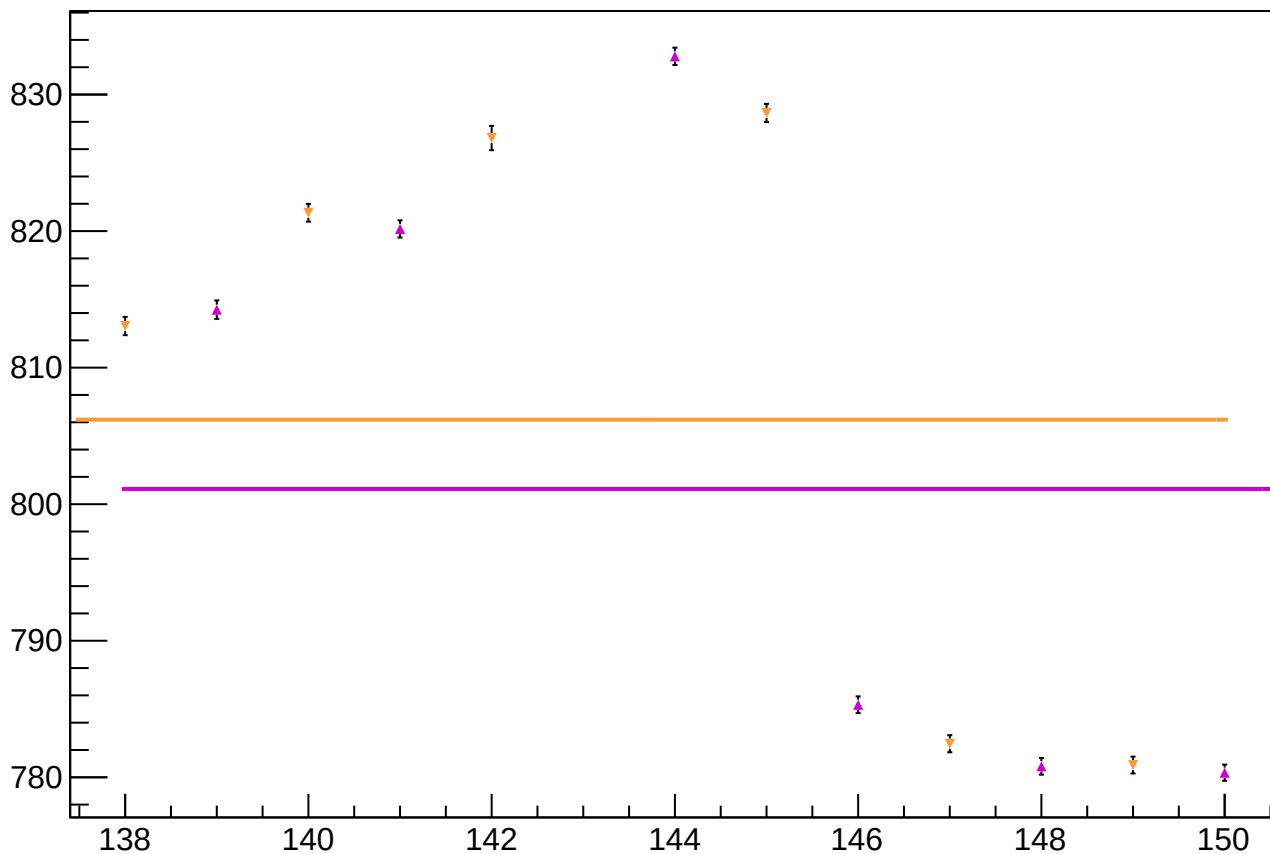
Out: 1695.960+/-388.023

$\chi^2/\text{NDF}$ : 4.2/5

All: 1799.369+/-264.382

$\chi^2/\text{NDF}$ : 13.1/11

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



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

Left Out: 806.193+/-0.274  $\chi^2/\text{NDF}$ :5440.6/5

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

Left In: 801.117+/-0.255  $\chi^2/\text{NDF}$ :6759.8/5

Left: 803.473+/-0.187  $\chi^2/\text{NDF}$ : 12383.7/11

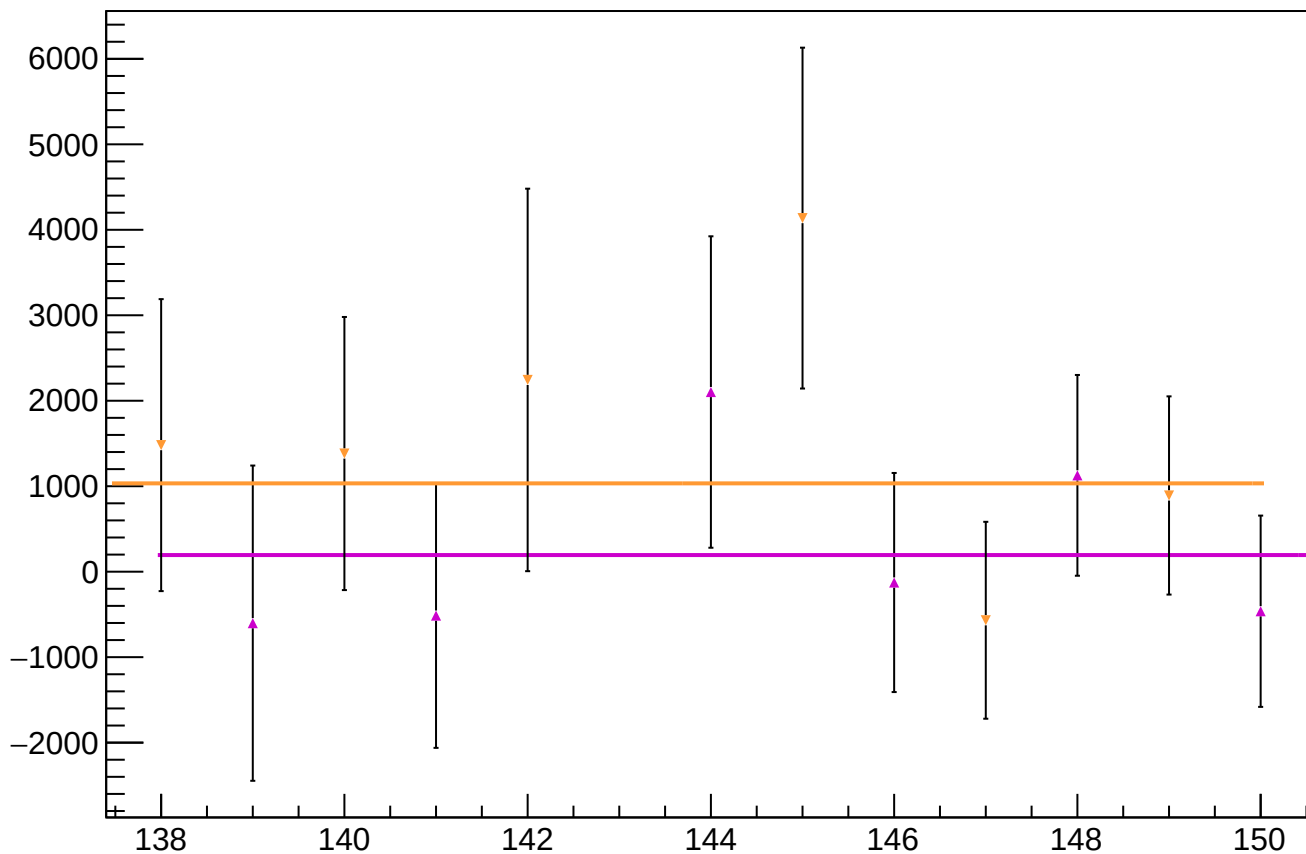
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 801.117+/-0.255  $\chi^2/\text{NDF}$ :6759.8/5

Out: 806.193+/-0.274  $\chi^2/\text{NDF}$ :5440.6/5

All: 803.473+/-0.187  $\chi^2/\text{NDF}$ : 12383.7/11

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



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

Left Out: 1033.336+/-610.475  $\chi^2/\text{NDF}$ : 4.8/5

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

Left In: 194.635+/-563.869  $\chi^2/\text{NDF}$ : 2.5/5

Left: 580.753+/-414.213  $\chi^2/\text{NDF}$ : 8.3/11

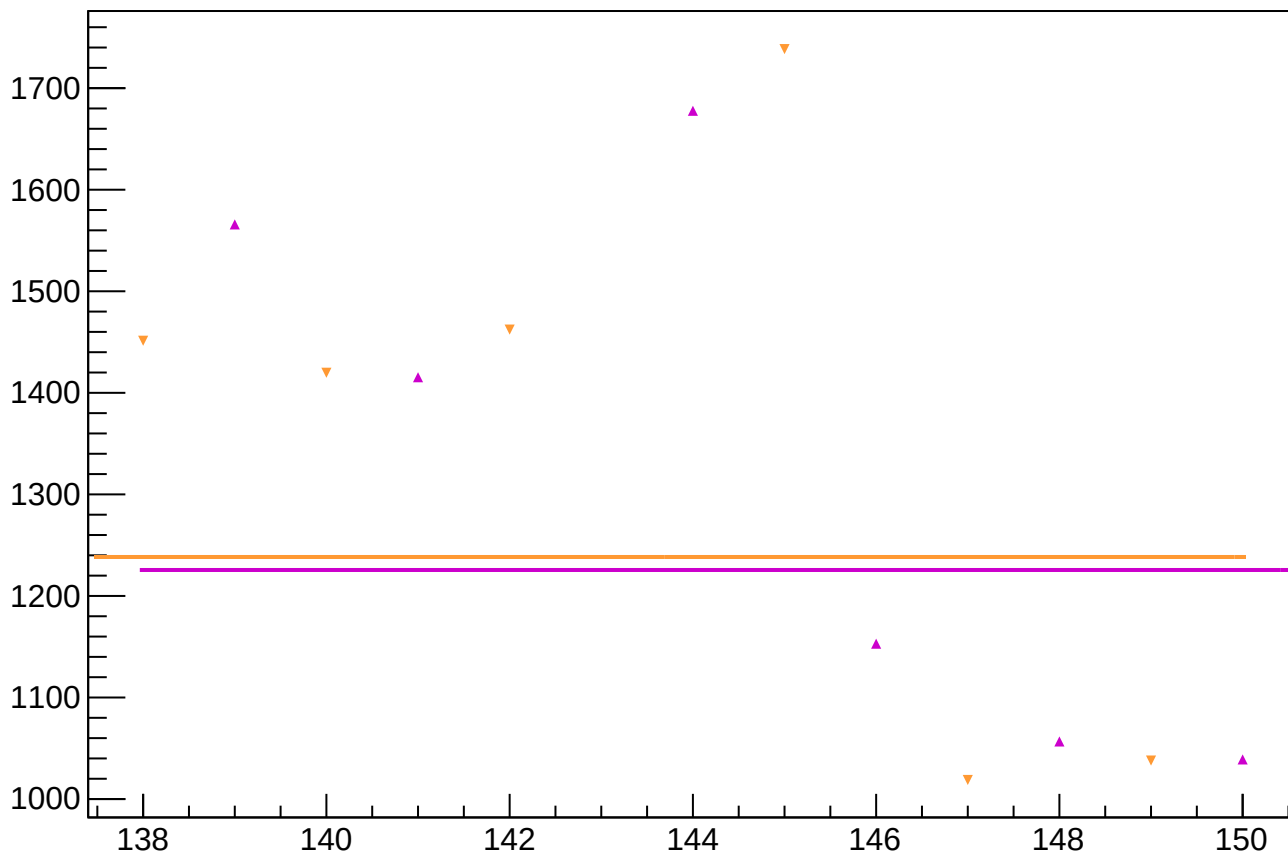
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 194.635+/-563.869  $\chi^2/\text{NDF}$ : 2.5/5

Out: 1033.336+/-610.475  $\chi^2/\text{NDF}$ : 4.8/5

All: 580.753+/-414.213  $\chi^2/\text{NDF}$ : 8.3/11

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



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

Left Out: 1238.362+/-0.432  $\chi^2/\text{NDF}$ : 335127.6/5

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

Left In: 1225.563+/-0.399  $\chi^2/\text{NDF}$ : 324693.2/5

Left: 1231.455+/-0.293  $\chi^2/\text{NDF}$ : 660295.2/11

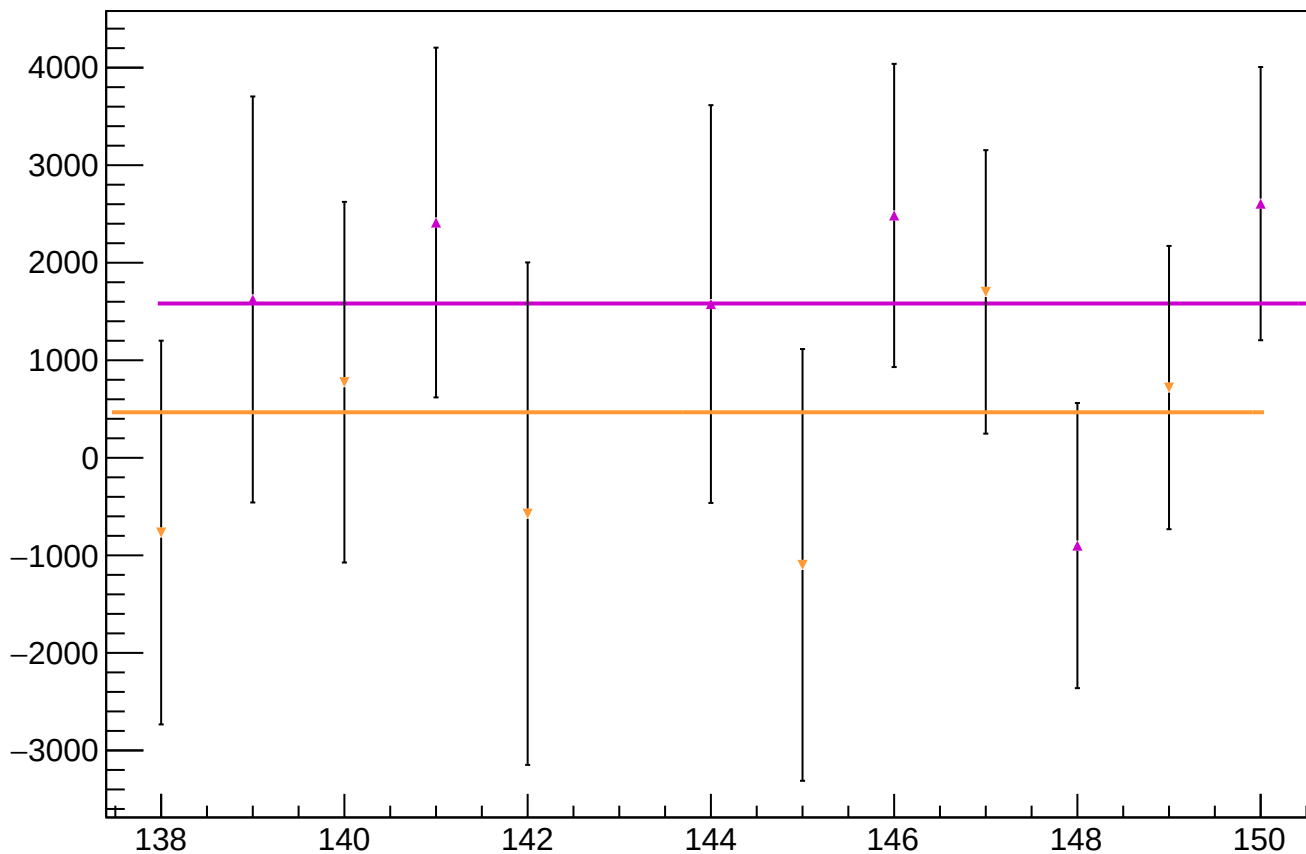
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1225.563+/-0.399  $\chi^2/\text{NDF}$ : 324693.2/5

Out: 1238.362+/-0.432  $\chi^2/\text{NDF}$ : 335127.6/5

All: 1231.455+/-0.293  $\chi^2/\text{NDF}$ : 660295.2/11

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



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

Left Out: 466.828+/-734.451  $\chi^2/\text{NDF}$ :1.8/5

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

Left In: 1582.190+/-678.165  $\chi^2/\text{NDF}$ :4.0/5

Left: 1068.881+/-498.247  $\chi^2/\text{NDF}$ : 7.0/11

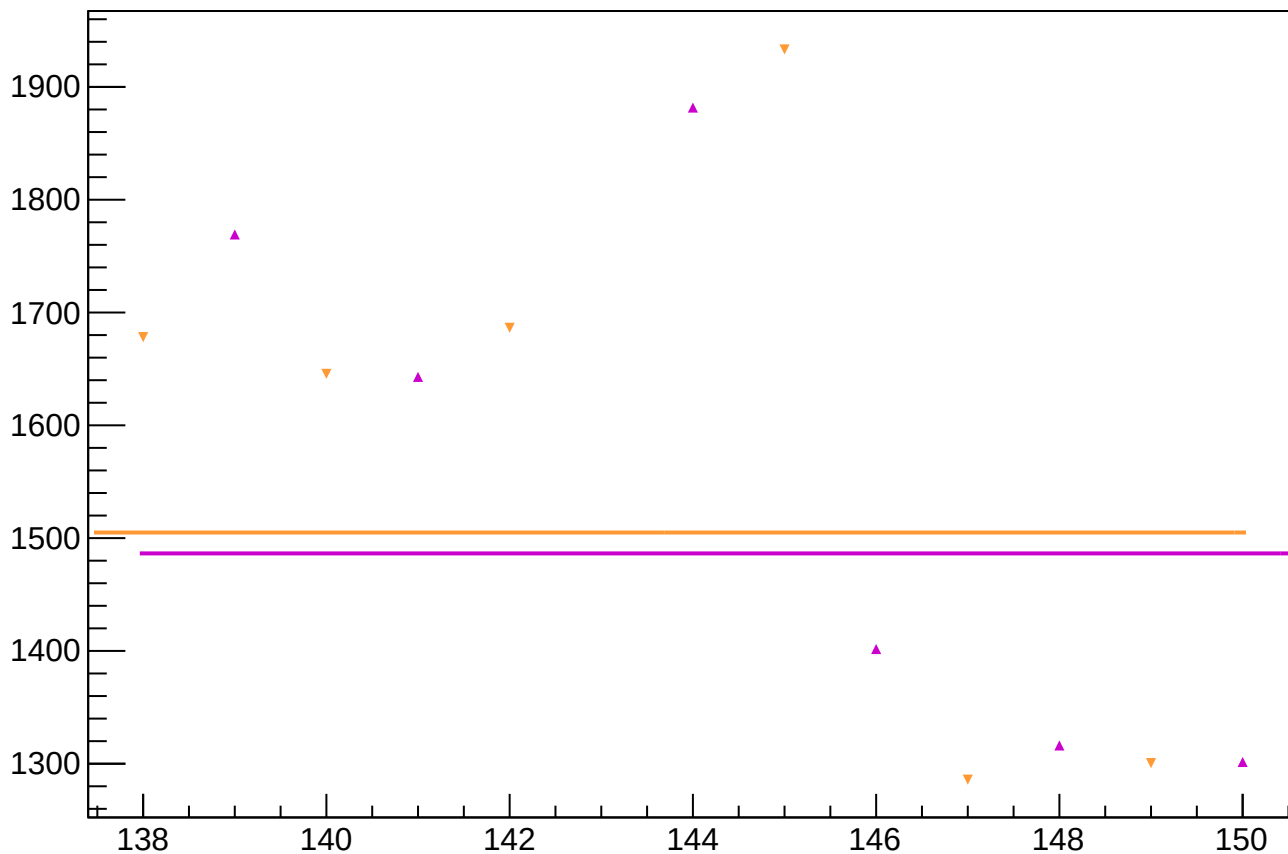
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1582.190+/-678.165  $\chi^2/\text{NDF}$ :4.0/5

Out: 466.828+/-734.451  $\chi^2/\text{NDF}$ :1.8/5

All: 1068.881+/-498.247  $\chi^2/\text{NDF}$ : 7.0/11

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



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

Left Out: 1504.971+/-0.519  $\chi^2/\text{NDF}$ :197008.7/5

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

Left In: 1486.449+/-0.480  $\chi^2/\text{NDF}$ :195257.5/5

Left: 1494.974+/-0.352  $\chi^2/\text{NDF}$ : 392952.8/11

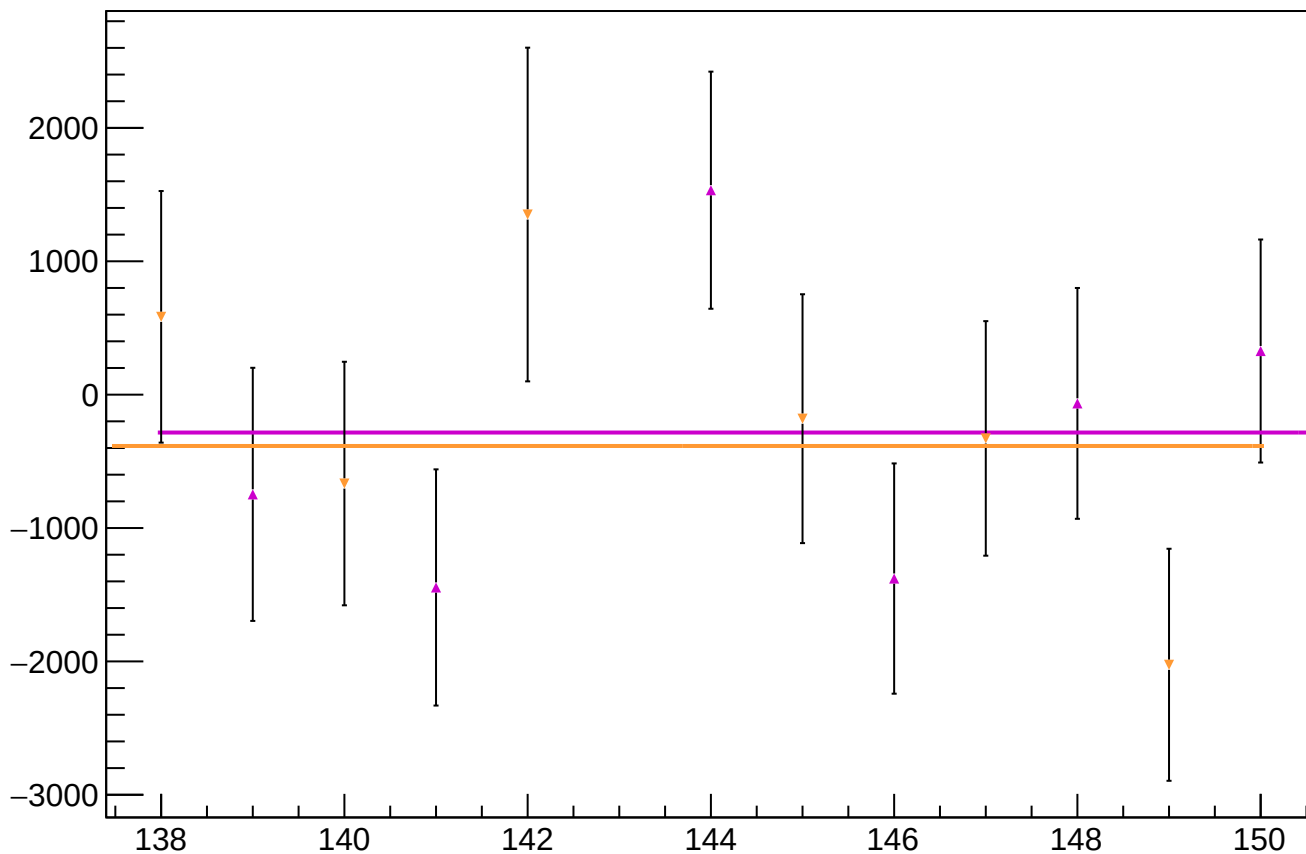
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1486.449+/-0.480  $\chi^2/\text{NDF}$ :195257.5/5

Out: 1504.971+/-0.519  $\chi^2/\text{NDF}$ :197008.7/5

All: 1494.974+/-0.352  $\chi^2/\text{NDF}$ : 392952.8/11

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



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

Left Out: -384.801+/-385.585  $\chi^2/\text{NDF}$ :6.7/5

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

Left In: -284.003+/-359.005  $\chi^2/\text{NDF}$ :8.3/5

Left: -330.808+/-262.749  $\chi^2/\text{NDF}$ : 15.1/11

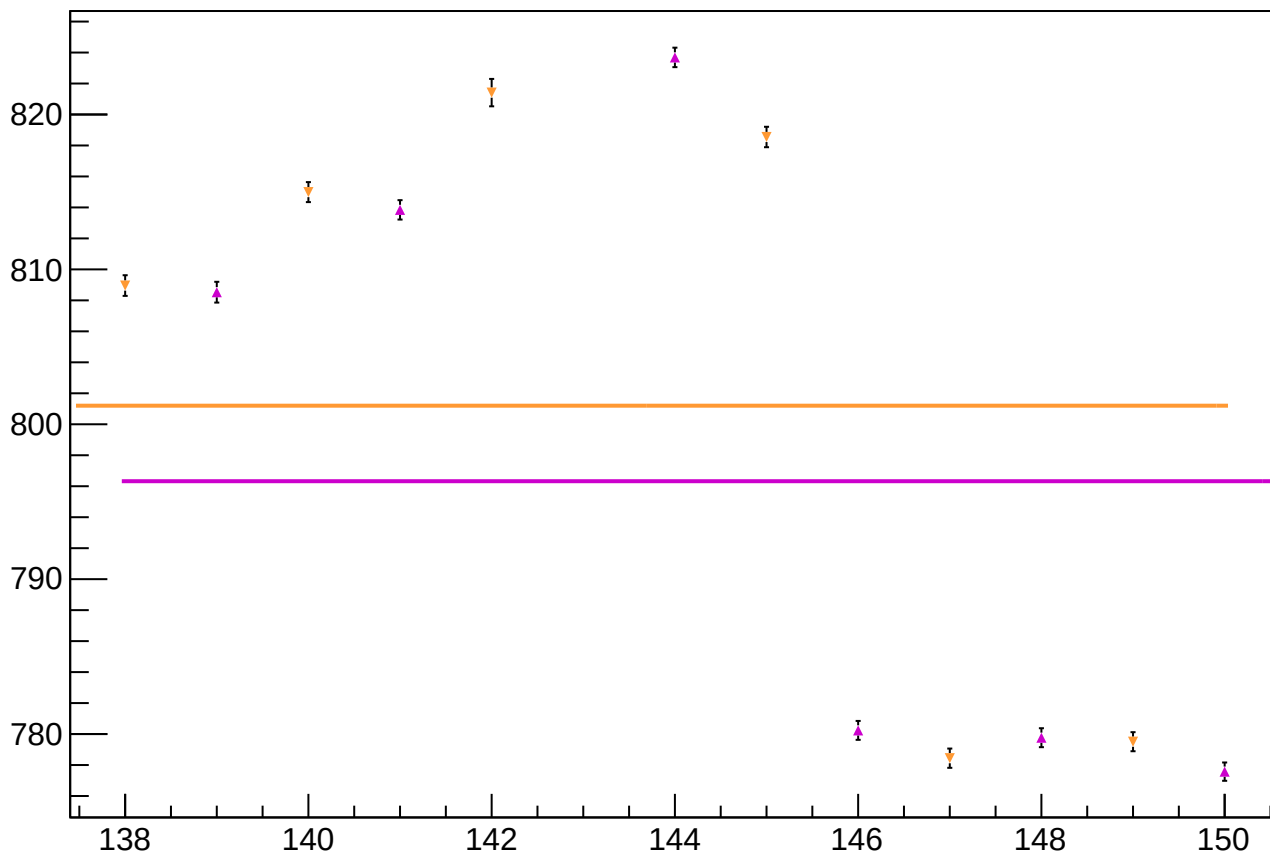
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -284.003+/-359.005  $\chi^2/\text{NDF}$ :8.3/5

Out: -384.801+/-385.585  $\chi^2/\text{NDF}$ :6.7/5

All: -330.808+/-262.749  $\chi^2/\text{NDF}$ : 15.1/11

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



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

Left Out: 801.200+/-0.273  $\chi^2/\text{NDF}$ :4388.6/5

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

Left In: 796.324+/-0.254  $\chi^2/\text{NDF}$ :5441.2/5

Left: 798.588+/-0.186  $\chi^2/\text{NDF}$ : 10001.1/11

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

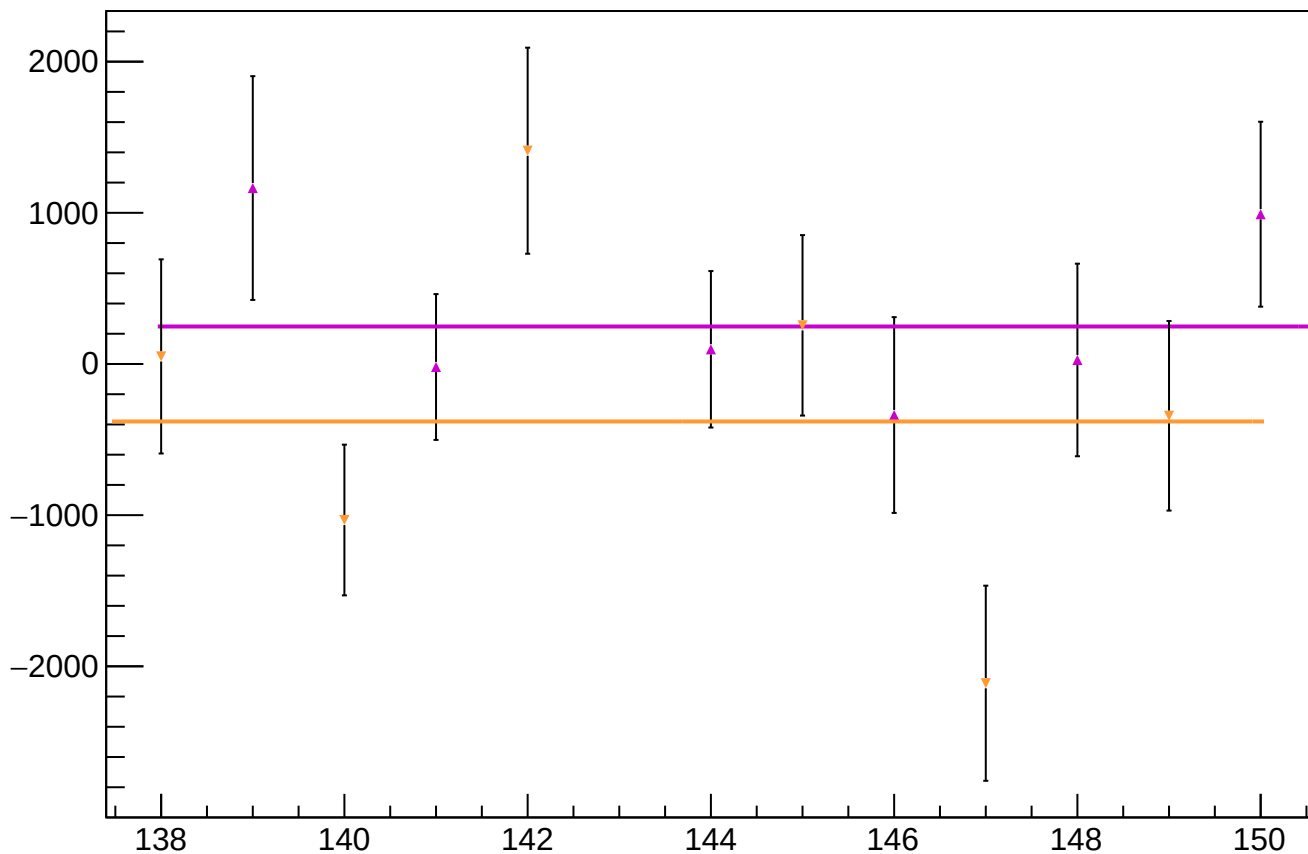
In: 796.324+/-0.254  $\chi^2/\text{NDF}$ :5441.2/5

Out: 801.200+/-0.273  $\chi^2/\text{NDF}$ :4388.6/5

All: 798.588+/-0.186  $\chi^2/\text{NDF}$ : 10001.1/11



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



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

Left Out: -380.332+/-247.300  $\chi^2/\text{NDF}$ :17.4/5

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

Left In: 247.998+/-239.861  $\chi^2/\text{NDF}$ :4.3/5

Left: -56.575+/-172.177  $\chi^2/\text{NDF}$ : 25.1/11

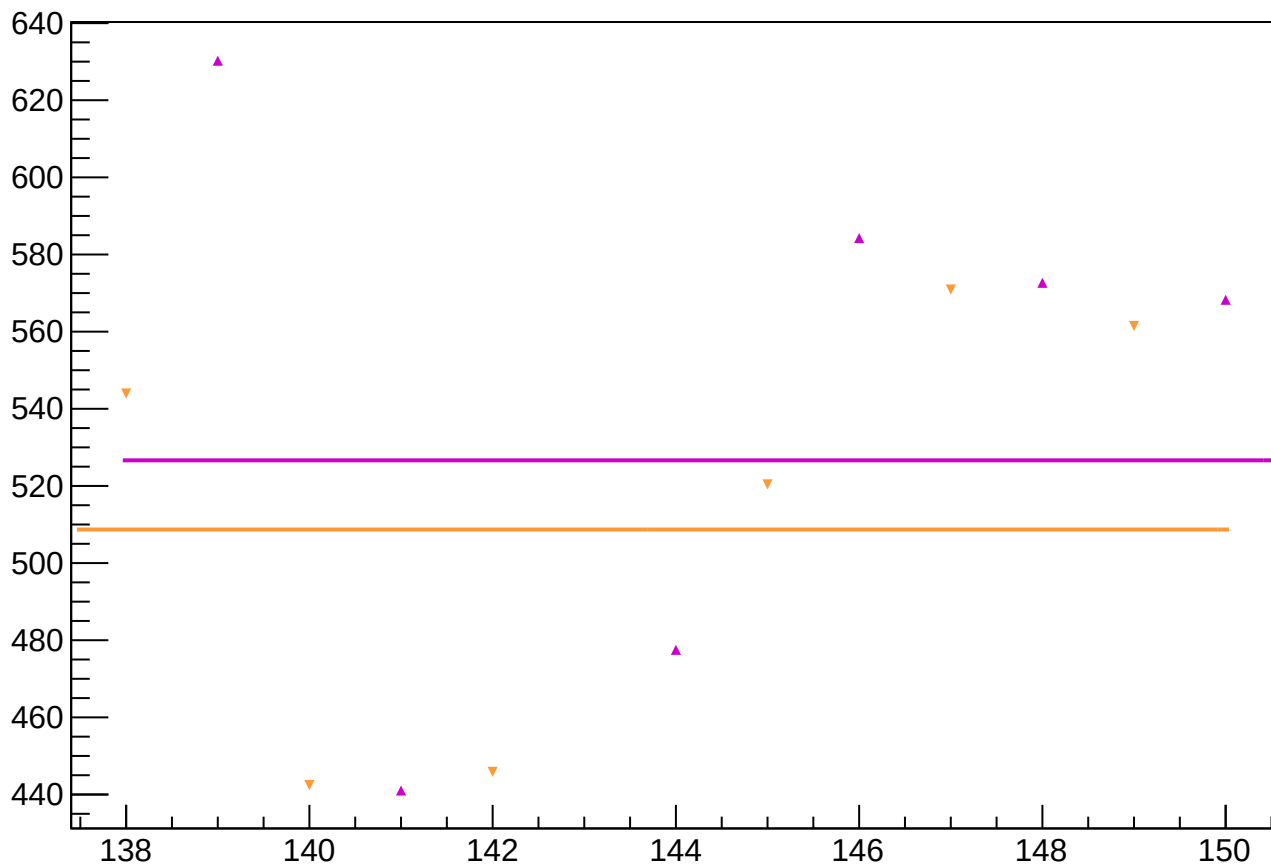
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 247.998+/-239.861  $\chi^2/\text{NDF}$ :4.3/5

Out: -380.332+/-247.300  $\chi^2/\text{NDF}$ :17.4/5

All: -56.575+/-172.177  $\chi^2/\text{NDF}$ : 25.1/11

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



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

Left Out: 508.704+/-0.175  $\chi^2/\text{NDF}$ :91880.4/5

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

Left In: 526.636+/-0.170  $\chi^2/\text{NDF}$ :155752.6/5

Left: 517.944+/-0.122  $\chi^2/\text{NDF}$ : 253051.2/11

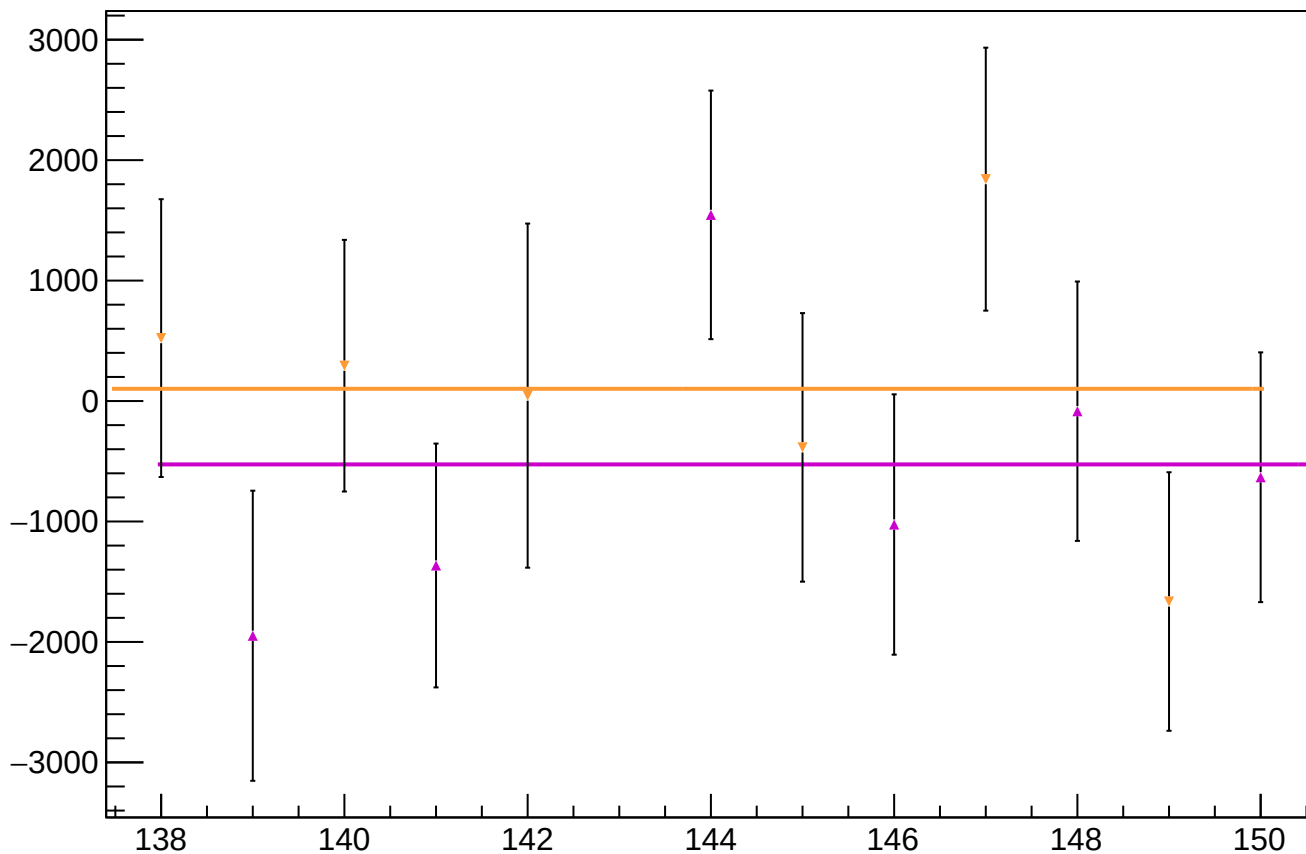
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 526.636+/-0.170  $\chi^2/\text{NDF}$ :155752.6/5

Out: 508.704+/-0.175  $\chi^2/\text{NDF}$ :91880.4/5

All: 517.944+/-0.122  $\chi^2/\text{NDF}$ : 253051.2/11

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



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

Left Out: 101.750 $\pm$ 462.720  $\chi^2$ /NDF:5.6/5

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

Left In: -526.059 $\pm$ 436.279  $\chi^2$ /NDF:6.5/5

Left: -230.604 $\pm$ 317.432  $\chi^2$ /NDF: 13.1/11

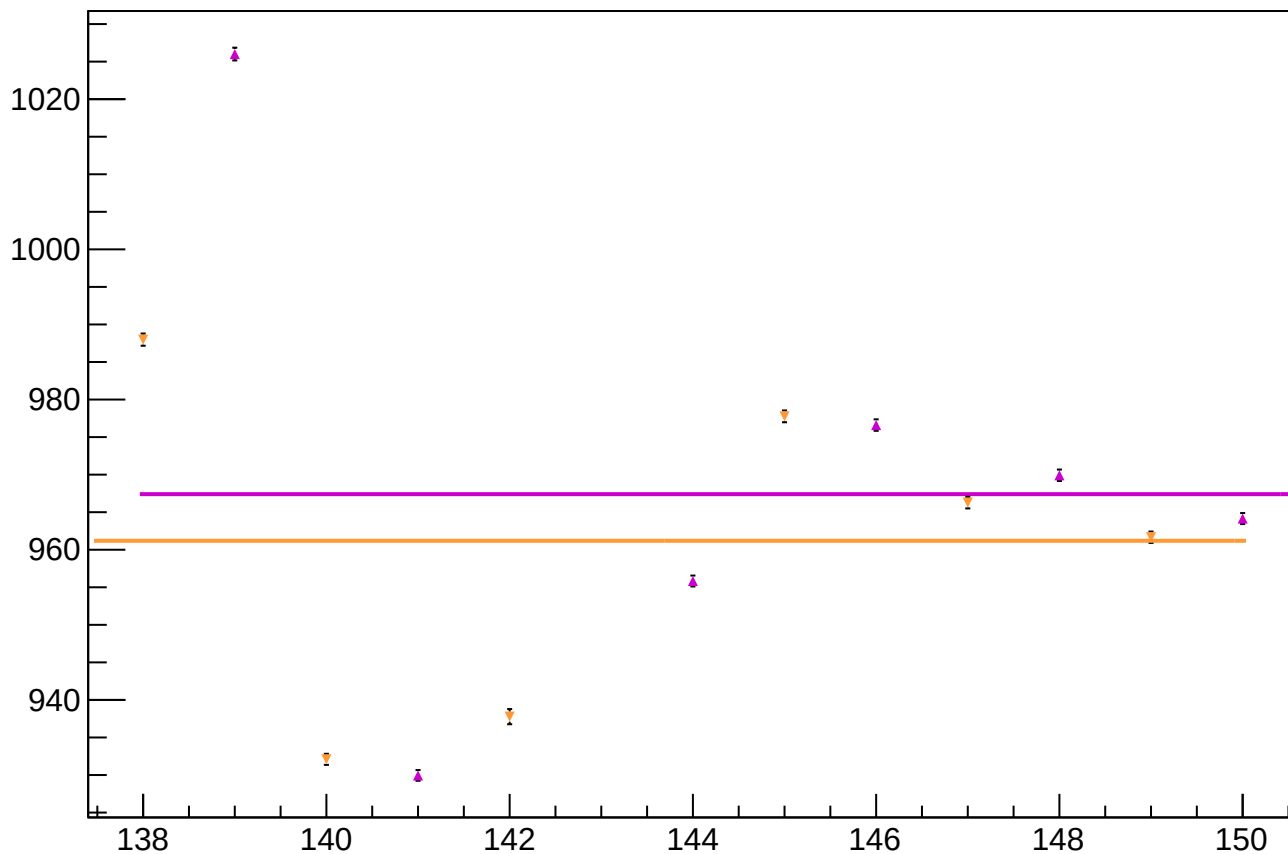
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -526.059 $\pm$ 436.279  $\chi^2$ /NDF:6.5/5

Out: 101.750 $\pm$ 462.720  $\chi^2$ /NDF:5.6/5

All: -230.604 $\pm$ 317.432  $\chi^2$ /NDF: 13.1/11

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



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

Left Out: 961.194+/-0.327  $\chi^2/\text{NDF}$ :3654.7/5

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

Left In: 967.403+/-0.308  $\chi^2/\text{NDF}$ :7902.5/5

Left: 964.481+/-0.224  $\chi^2/\text{NDF}$ : 11747.8/11

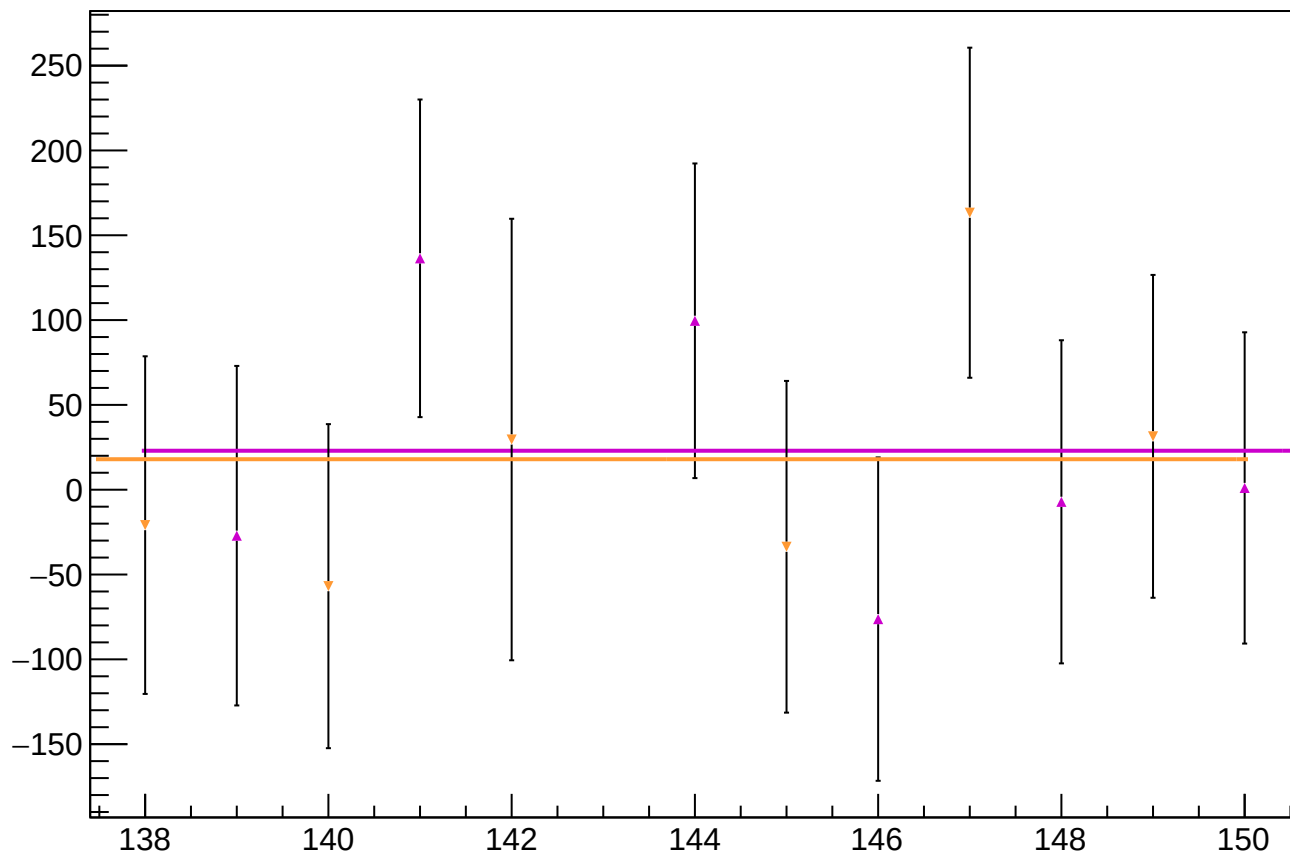
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 967.403+/-0.308  $\chi^2/\text{NDF}$ :7902.5/5

Out: 961.194+/-0.327  $\chi^2/\text{NDF}$ :3654.7/5

All: 964.481+/-0.224  $\chi^2/\text{NDF}$ : 11747.8/11

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



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

Left Out: 17.974+/-41.160  $\chi^2/\text{NDF}$ :3.3/5

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

Left In: 22.975+/-38.654  $\chi^2/\text{NDF}$ :3.6/5

Left: 20.632+/-28.177  $\chi^2/\text{NDF}$ : 7.0/11

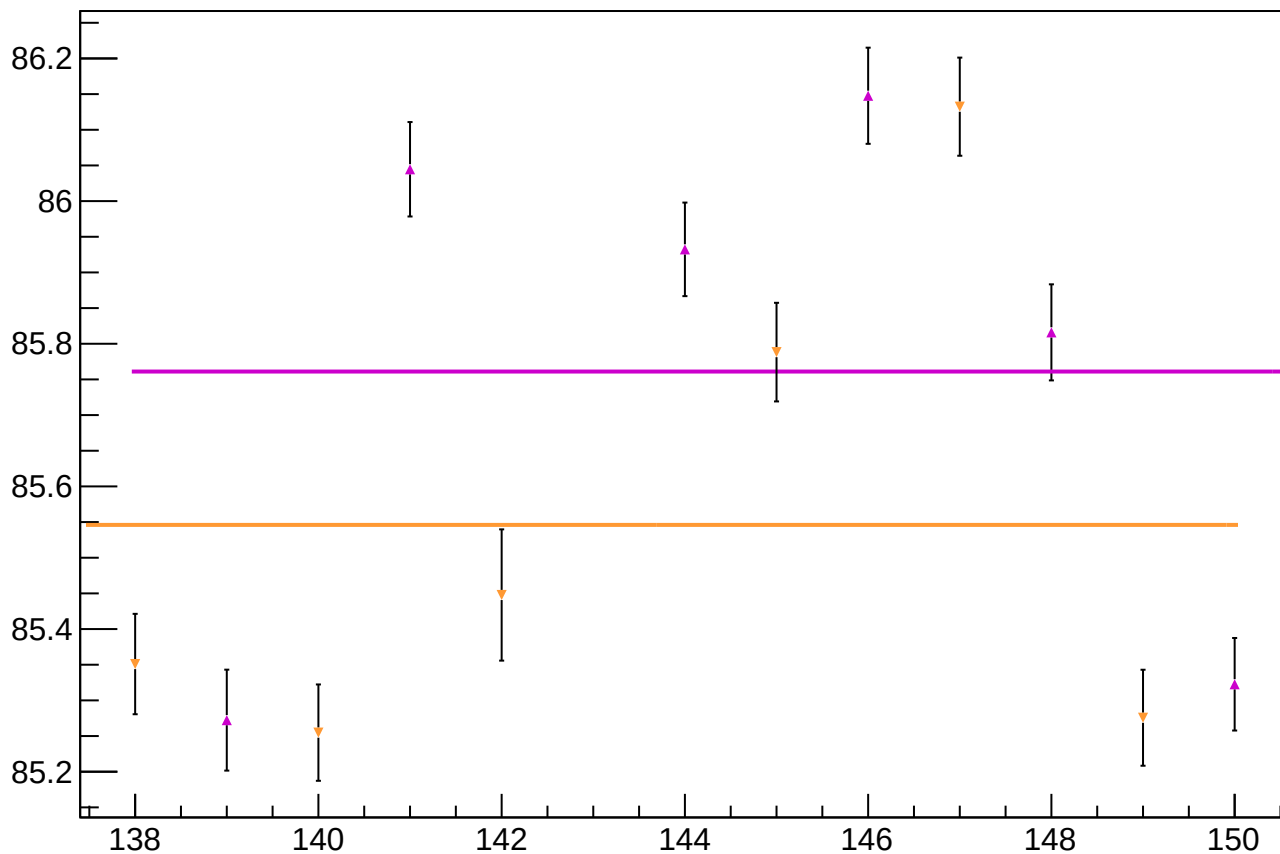
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 22.975+/-38.654  $\chi^2/\text{NDF}$ :3.6/5

Out: 17.974+/-41.160  $\chi^2/\text{NDF}$ :3.3/5

All: 20.632+/-28.177  $\chi^2/\text{NDF}$ : 7.0/11

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



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

Left Out: 85.546 $\pm$ 0.029  $\chi^2$ /NDF:128.5/5

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

Left In: 85.761 $\pm$ 0.027  $\chi^2$ /NDF:152.1/5

Left: 85.660 $\pm$ 0.020  $\chi^2$ /NDF: 309.6/11

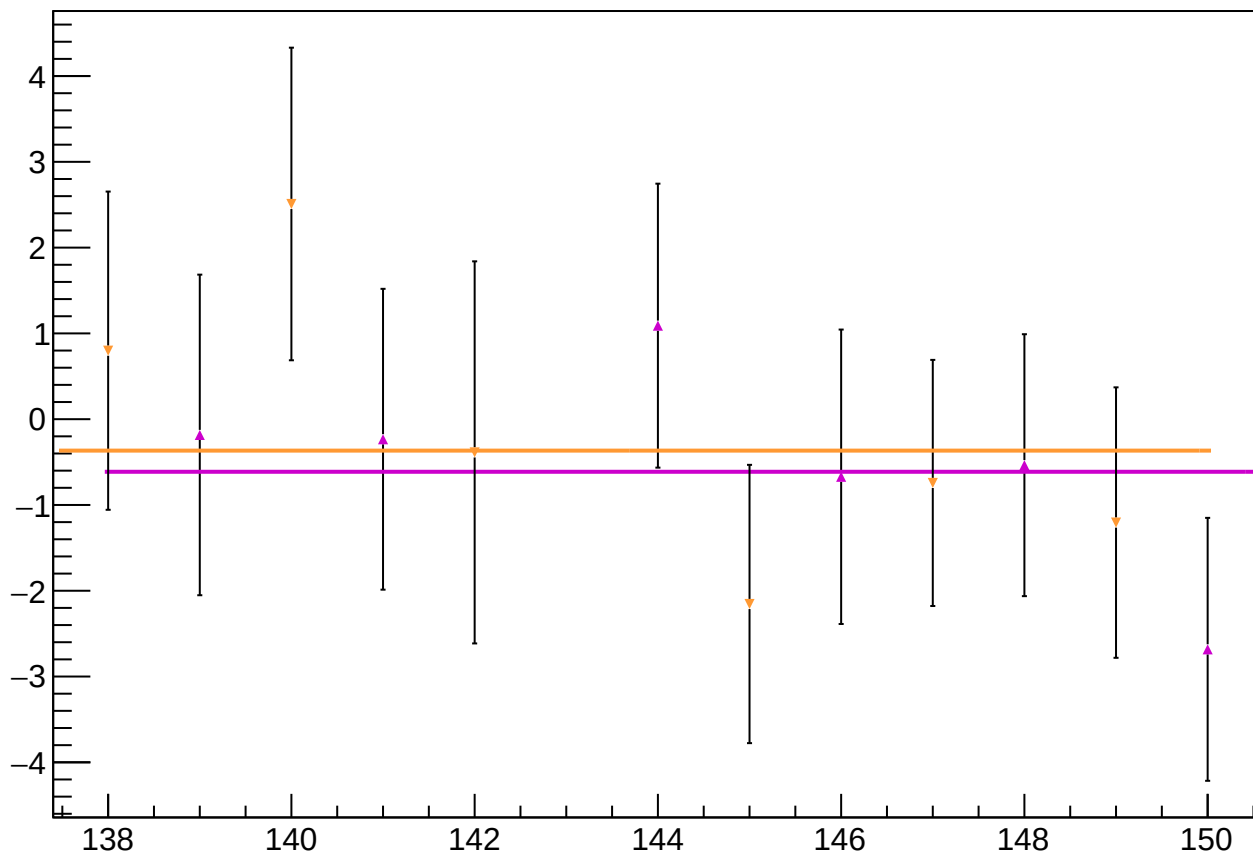
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 85.761 $\pm$ 0.027  $\chi^2$ /NDF:152.1/5

Out: 85.546 $\pm$ 0.029  $\chi^2$ /NDF:128.5/5

All: 85.660 $\pm$ 0.020  $\chi^2$ /NDF: 309.6/11

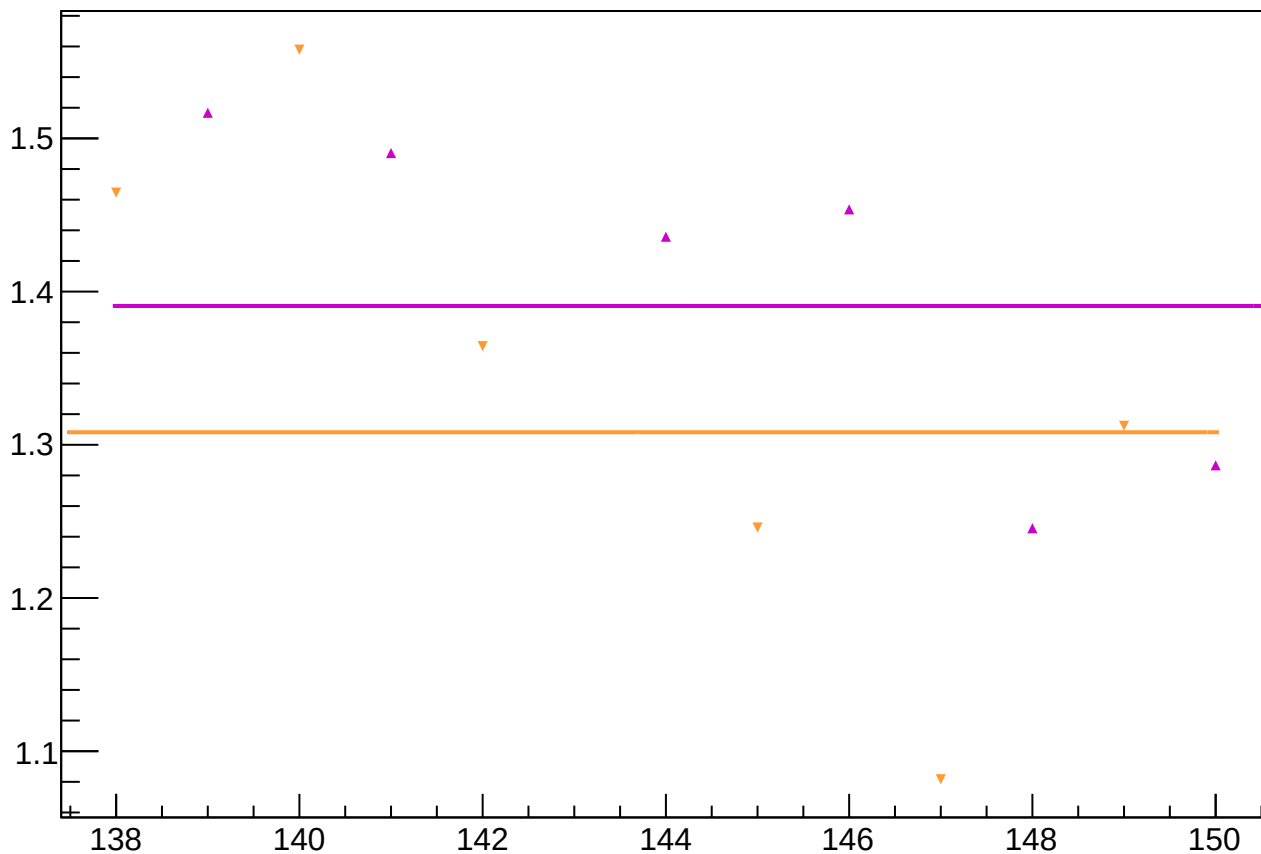
asym\_ds\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.366+/-0.696  $\chi^2/\text{NDF}$ : 4.5/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.613+/-0.679  $\chi^2/\text{NDF}$ : 3.0/5

Left: -0.493+/-0.486  $\chi^2/\text{NDF}$ : 7.5/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.613+/-0.679  $\chi^2/\text{NDF}$ : 3.0/5  
 Out: -0.366+/-0.696  $\chi^2/\text{NDF}$ : 4.5/5  
 All: -0.493+/-0.486  $\chi^2/\text{NDF}$ : 7.5/11

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



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

Left Out: 1.308+/-0.000  $\chi^2/\text{NDF}$ :105875.3/5

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

Left In: 1.391+/-0.000  $\chi^2/\text{NDF}$ :47048.3/5

Left: 1.350+/-0.000  $\chi^2/\text{NDF}$ : 167286.7/11

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

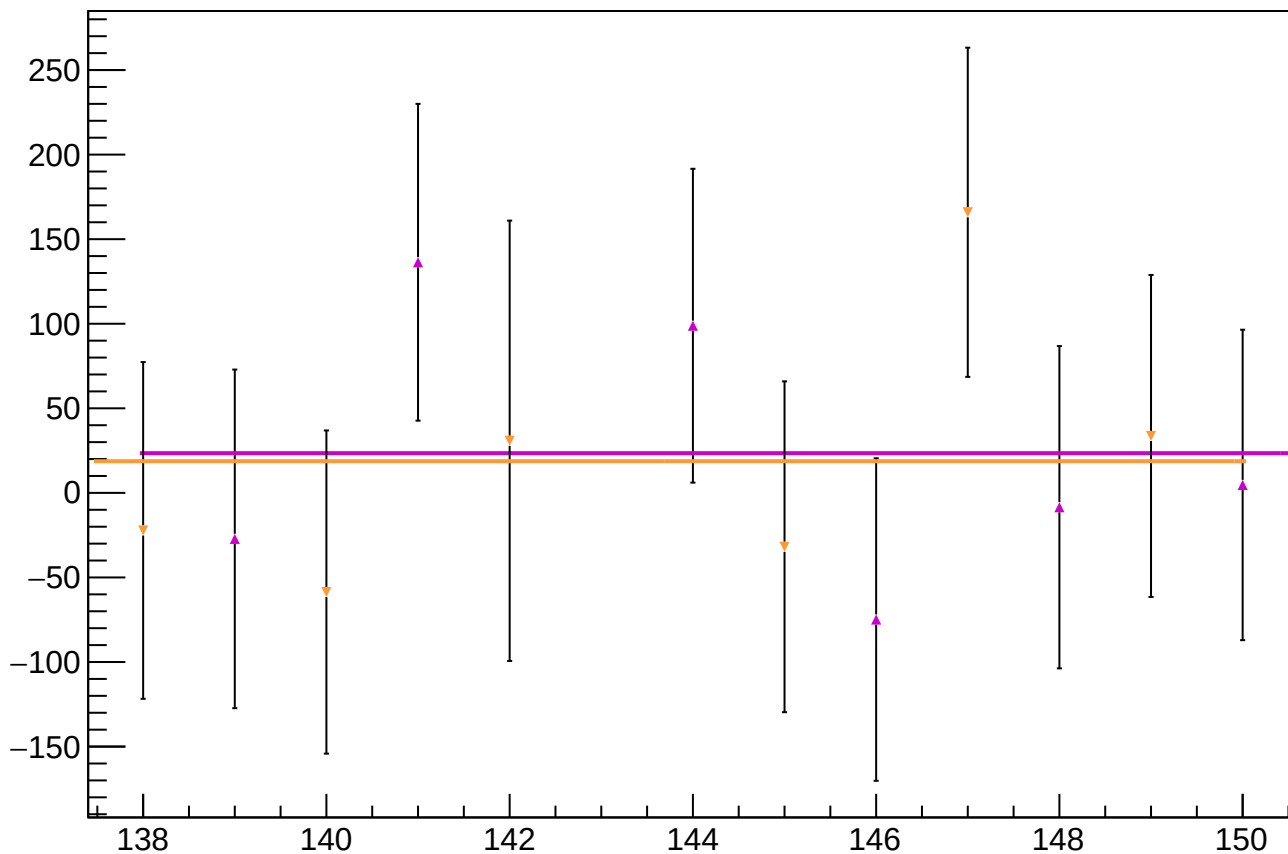
In: 1.391+/-0.000  $\chi^2/\text{NDF}$ :47048.3/5

Out: 1.308+/-0.000  $\chi^2/\text{NDF}$ :105875.3/5

All: 1.350+/-0.000  $\chi^2/\text{NDF}$ : 167286.7/11



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



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

Left Out: 18.731+/-41.170  $\chi^2/\text{NDF}$ :3.4/5

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

Left In: 23.475+/-38.664  $\chi^2/\text{NDF}$ :3.6/5

Left: 21.251+/-28.184  $\chi^2/\text{NDF}$ : 7.0/11

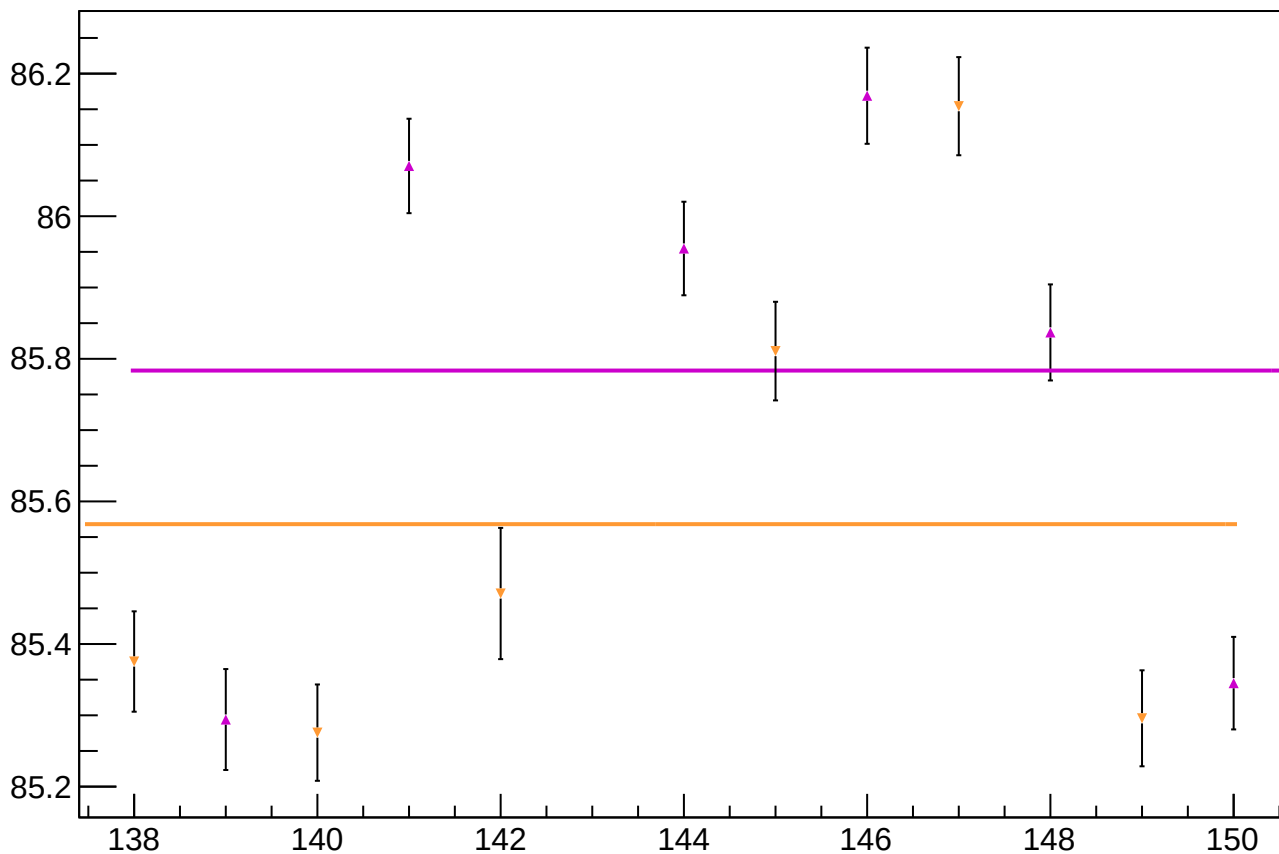
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 23.475+/-38.664  $\chi^2/\text{NDF}$ :3.6/5

Out: 18.731+/-41.170  $\chi^2/\text{NDF}$ :3.4/5

All: 21.251+/-28.184  $\chi^2/\text{NDF}$ : 7.0/11

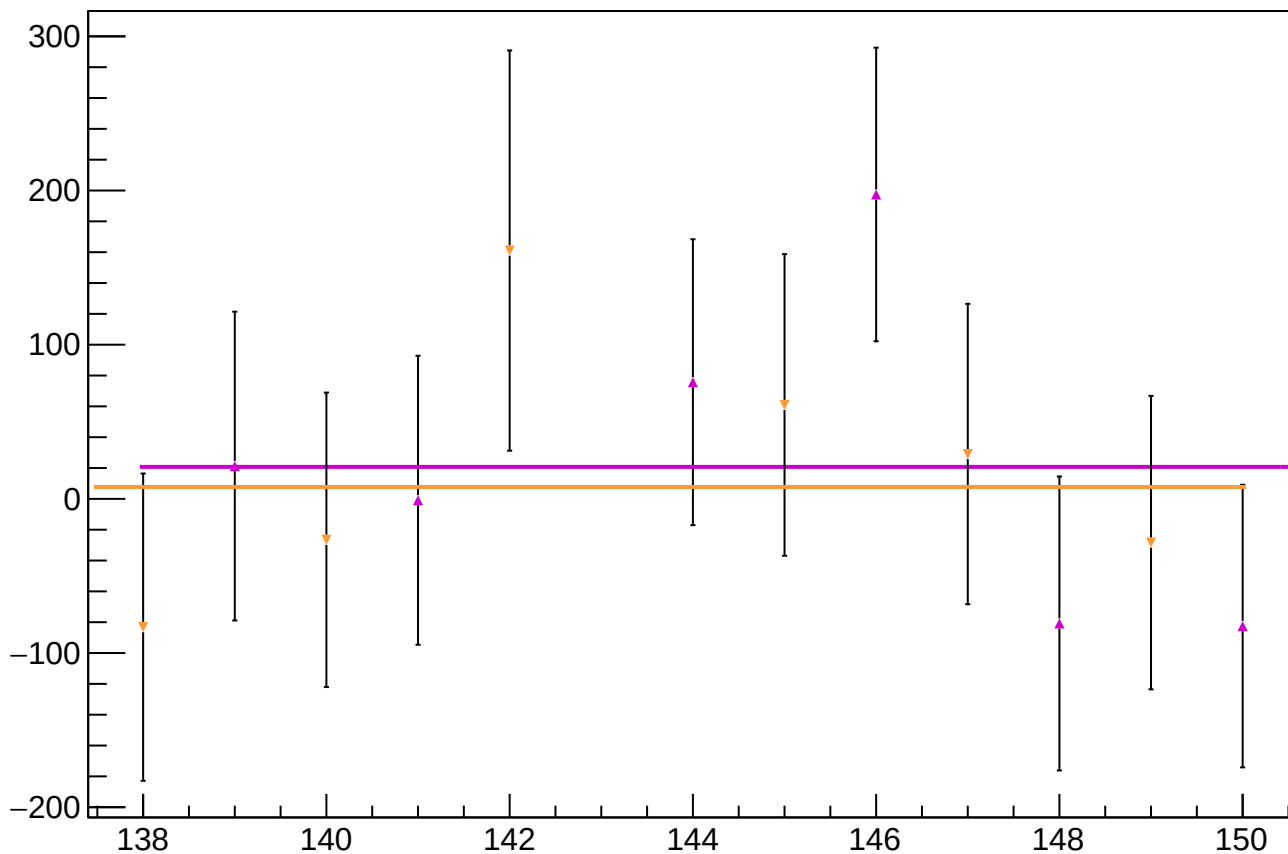
# asym\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 85.568+/-0.029  $\chi^2/\text{NDF}$ :128.6/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 85.784+/-0.027  $\chi^2/\text{NDF}$ :152.4/5

Left: 85.683+/-0.020  $\chi^2/\text{NDF}$ : 310.0/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 85.784+/-0.027  $\chi^2/\text{NDF}$ :152.4/5  
 Out: 85.568+/-0.029  $\chi^2/\text{NDF}$ :128.6/5  
 All: 85.683+/-0.020  $\chi^2/\text{NDF}$ : 310.0/11

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



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

Left Out: 7.731+/-41.172  $\chi^2/\text{NDF}$ : 2.8/5

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

Left In: 20.746+/-38.655  $\chi^2/\text{NDF}$ : 6.3/5

Left: 14.648+/-28.181  $\chi^2/\text{NDF}$ : 9.1/11

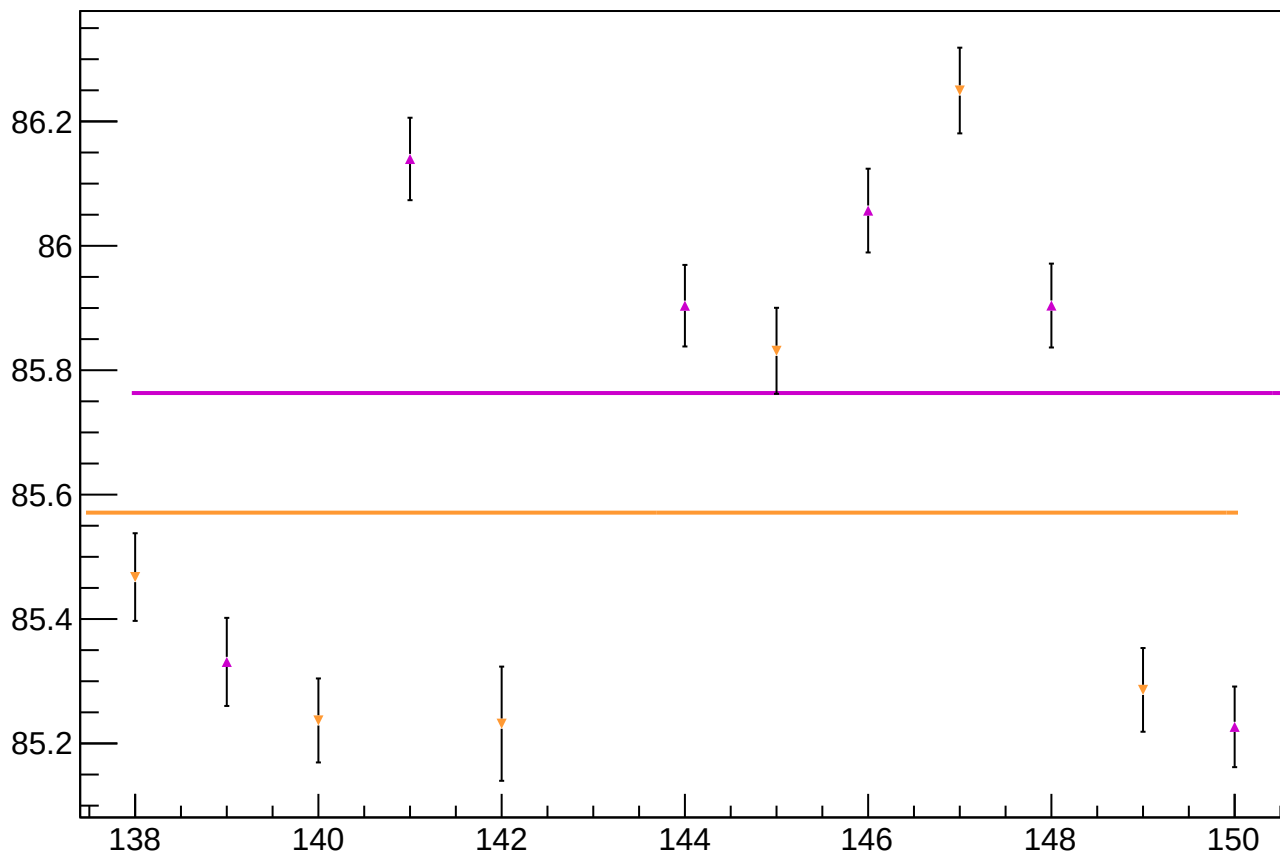
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 20.746+/-38.655  $\chi^2/\text{NDF}$ : 6.3/5

Out: 7.731+/-41.172  $\chi^2/\text{NDF}$ : 2.8/5

All: 14.648+/-28.181  $\chi^2/\text{NDF}$ : 9.1/11

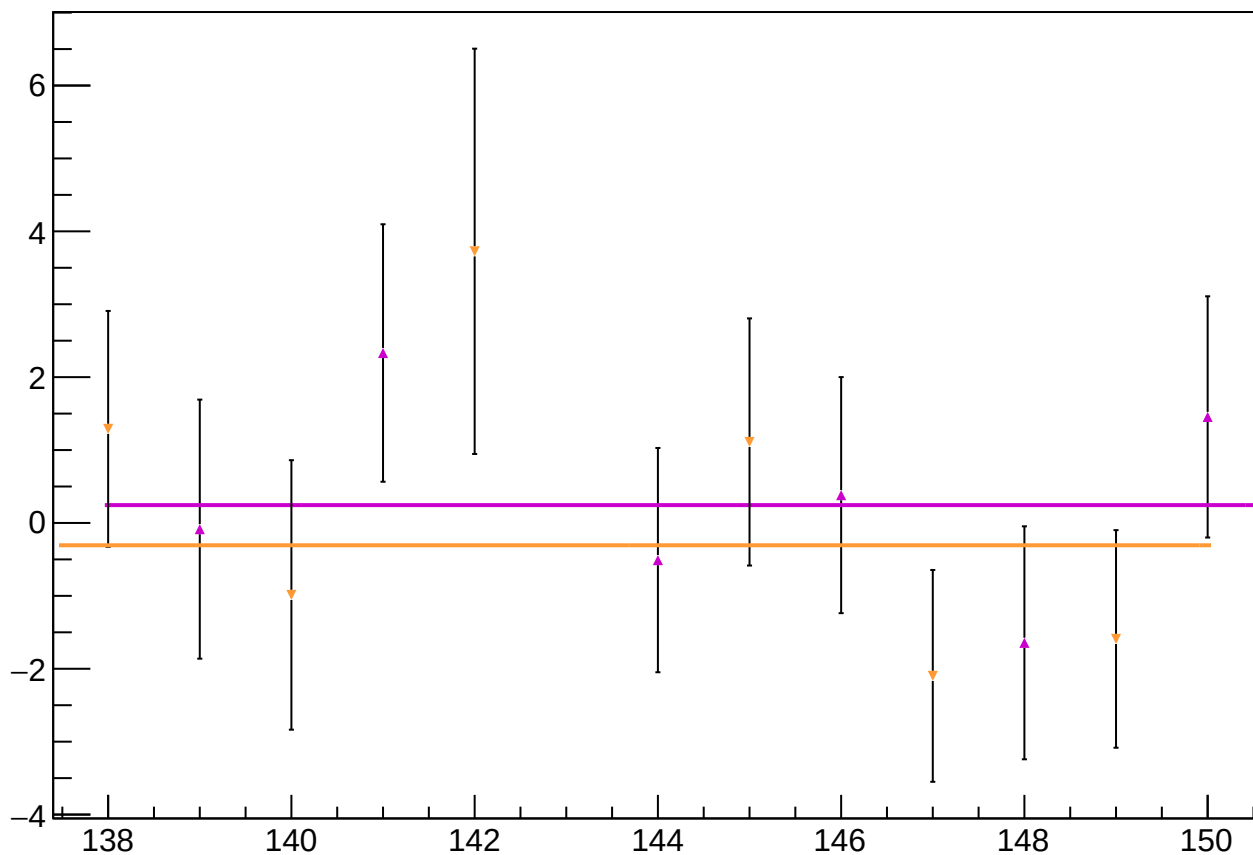
# reg\_asym\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 85.571+/-0.029  $\chi^2/\text{NDF}$ :169.4/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 85.763+/-0.027  $\chi^2/\text{NDF}$ :166.0/5

Left: 85.673+/-0.020  $\chi^2/\text{NDF}$ : 358.6/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 85.763+/-0.027  $\chi^2/\text{NDF}$ :166.0/5  
 Out: 85.571+/-0.029  $\chi^2/\text{NDF}$ :169.4/5  
 All: 85.673+/-0.020  $\chi^2/\text{NDF}$ : 358.6/11

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



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

Left Out: -0.306+/-0.694  $\chi^2/\text{NDF}$ : 6.2/5

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

Left In: 0.245+/-0.674  $\chi^2/\text{NDF}$ : 3.6/5

Left: -0.023+/-0.484  $\chi^2/\text{NDF}$ : 10.1/11

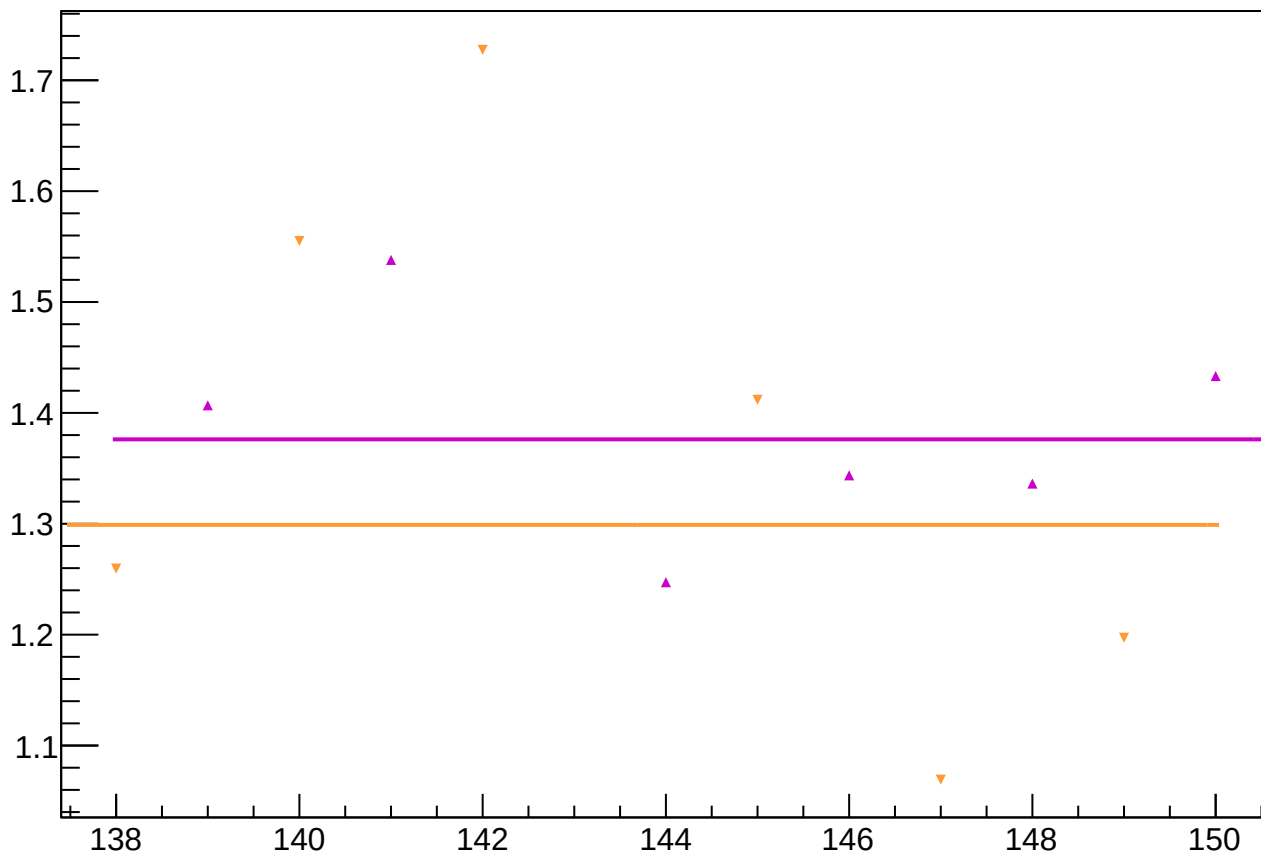
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.245+/-0.674  $\chi^2/\text{NDF}$ : 3.6/5

Out: -0.306+/-0.694  $\chi^2/\text{NDF}$ : 6.2/5

All: -0.023+/-0.484  $\chi^2/\text{NDF}$ : 10.1/11

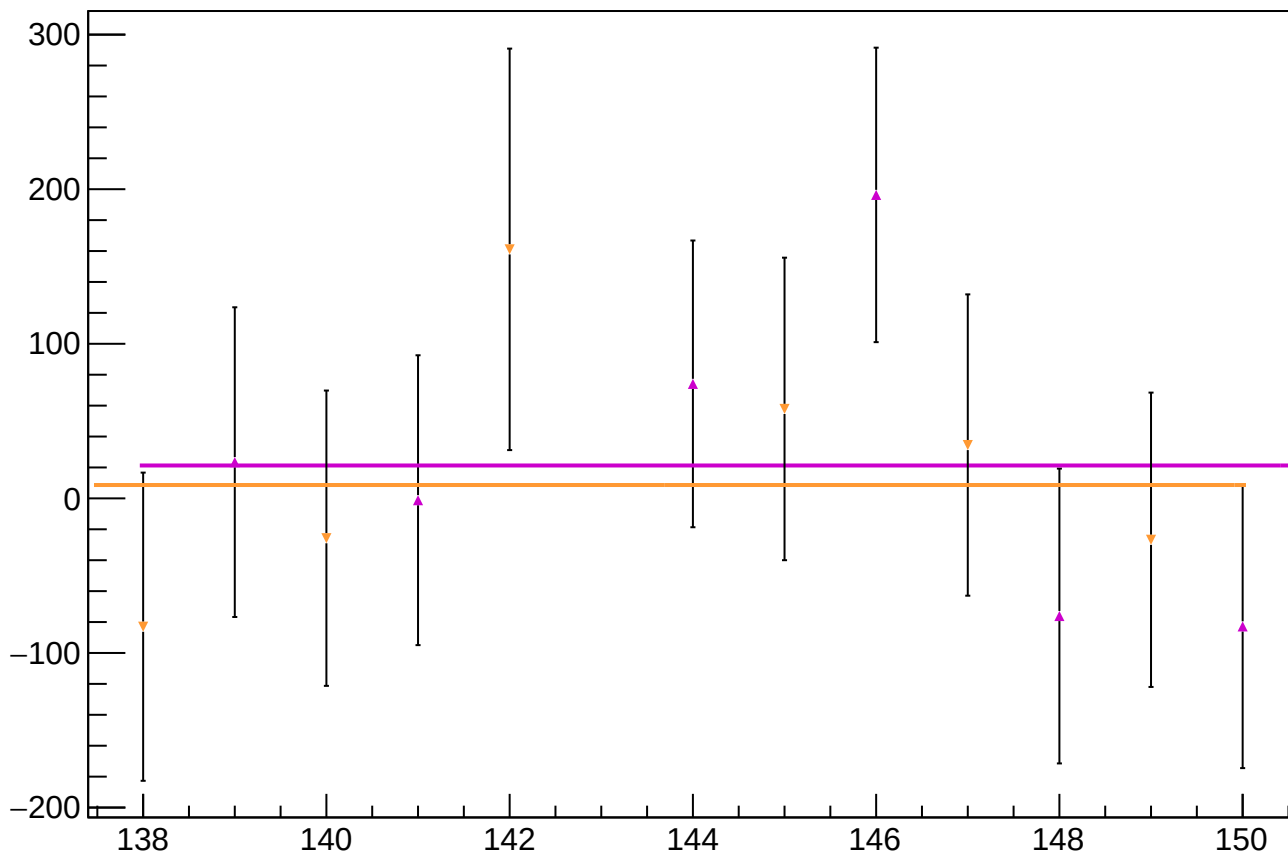
# asym\_ds\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 1.299+/-0.000  $\chi^2/\text{NDF}$ :155272.3/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.376+/-0.000  $\chi^2/\text{NDF}$ :35859.0/5

Left: 1.339+/-0.000  $\chi^2/\text{NDF}$ : 203843.8/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 1.376+/-0.000  $\chi^2/\text{NDF}$ :35859.0/5  
 Out: 1.299+/-0.000  $\chi^2/\text{NDF}$ :155272.3/5  
 All: 1.339+/-0.000  $\chi^2/\text{NDF}$ : 203843.8/11

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



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

Left Out: 8.643+/-41.183  $\chi^2/\text{NDF}$ : 2.8/5

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

Left In: 21.280+/-38.666  $\chi^2/\text{NDF}$ : 6.1/5

Left: 15.360+/-28.189  $\chi^2/\text{NDF}$ : 9.0/11

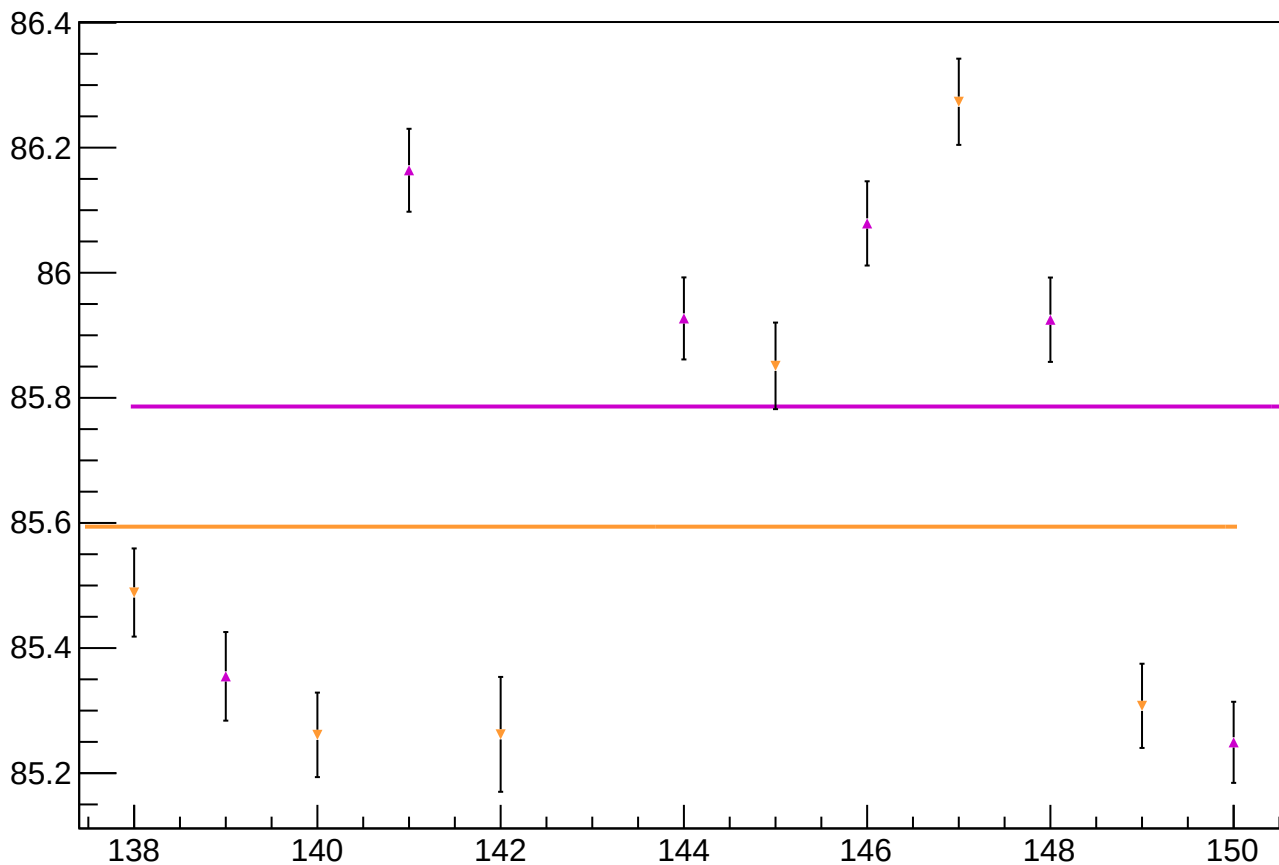
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 21.280+/-38.666  $\chi^2/\text{NDF}$ : 6.1/5

Out: 8.643+/-41.183  $\chi^2/\text{NDF}$ : 2.8/5

All: 15.360+/-28.189  $\chi^2/\text{NDF}$ : 9.0/11

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

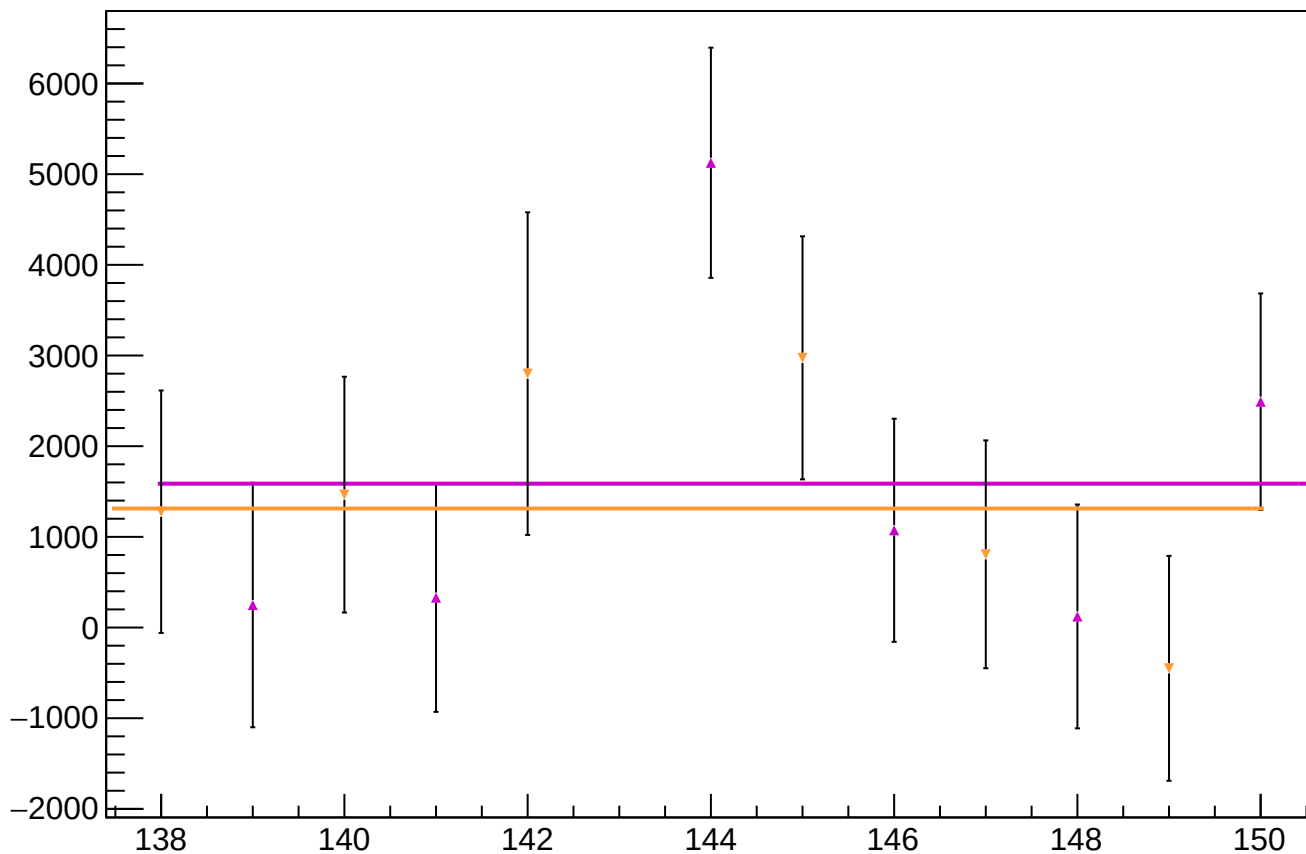


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 85.594+/-0.029  $\chi^2/\text{NDF}$ :168.6/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 85.786+/-0.027  $\chi^2/\text{NDF}$ :165.9/5

Left: 85.696+/-0.020  $\chi^2/\text{NDF}$ : 357.6/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 85.786+/-0.027  $\chi^2/\text{NDF}$ :165.9/5  
 Out: 85.594+/-0.029  $\chi^2/\text{NDF}$ :168.6/5  
 All: 85.696+/-0.020  $\chi^2/\text{NDF}$ : 357.6/11



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



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

Left Out: 1312.674+/-549.876  $\chi^2/\text{NDF}$ : 4.4/5

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

Left In: 1586.782+/-511.726  $\chi^2/\text{NDF}$ : 11.9/5

Left: 1459.565+/-374.606  $\chi^2/\text{NDF}$ : 16.5/11

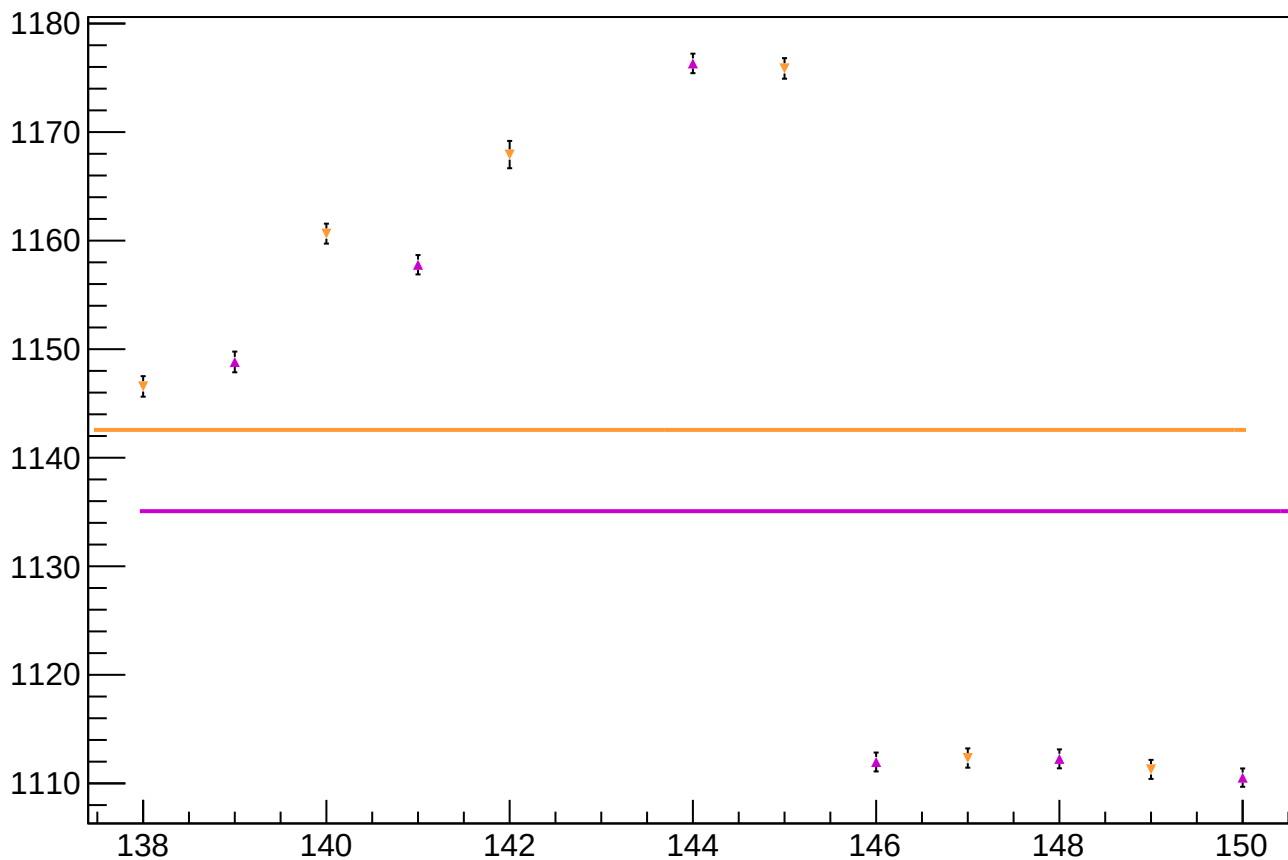
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1586.782+/-511.726  $\chi^2/\text{NDF}$ : 11.9/5

Out: 1312.674+/-549.876  $\chi^2/\text{NDF}$ : 4.4/5

All: 1459.565+/-374.606  $\chi^2/\text{NDF}$ : 16.5/11

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



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

Left Out: 1142.566+/-0.389  $\chi^2/\text{NDF}$ :4475.8/5

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

Left In: 1135.078+/-0.362  $\chi^2/\text{NDF}$ :5202.7/5

Left: 1138.553+/-0.265  $\chi^2/\text{NDF}$ : 9877.2/11

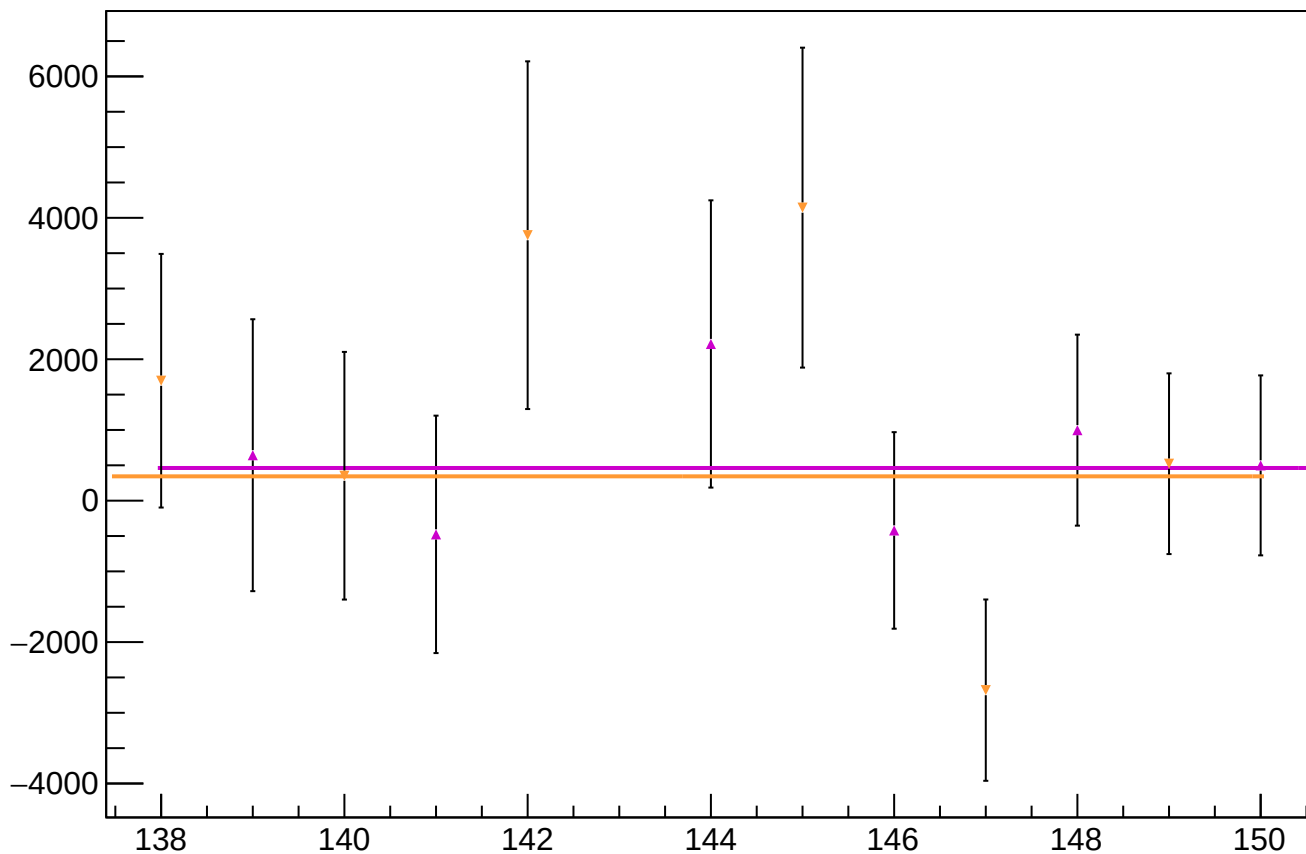
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1135.078+/-0.362  $\chi^2/\text{NDF}$ :5202.7/5

Out: 1142.566+/-0.389  $\chi^2/\text{NDF}$ :4475.8/5

All: 1138.553+/-0.265  $\chi^2/\text{NDF}$ : 9877.2/11

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



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

Left Out: 343.986+/-671.378  $\chi^2/\text{NDF}$ :10.9/5

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

Left In: 462.179+/-626.103  $\chi^2/\text{NDF}$ :1.6/5

Left: 407.202+/-457.891  $\chi^2/\text{NDF}$ : 12.5/11

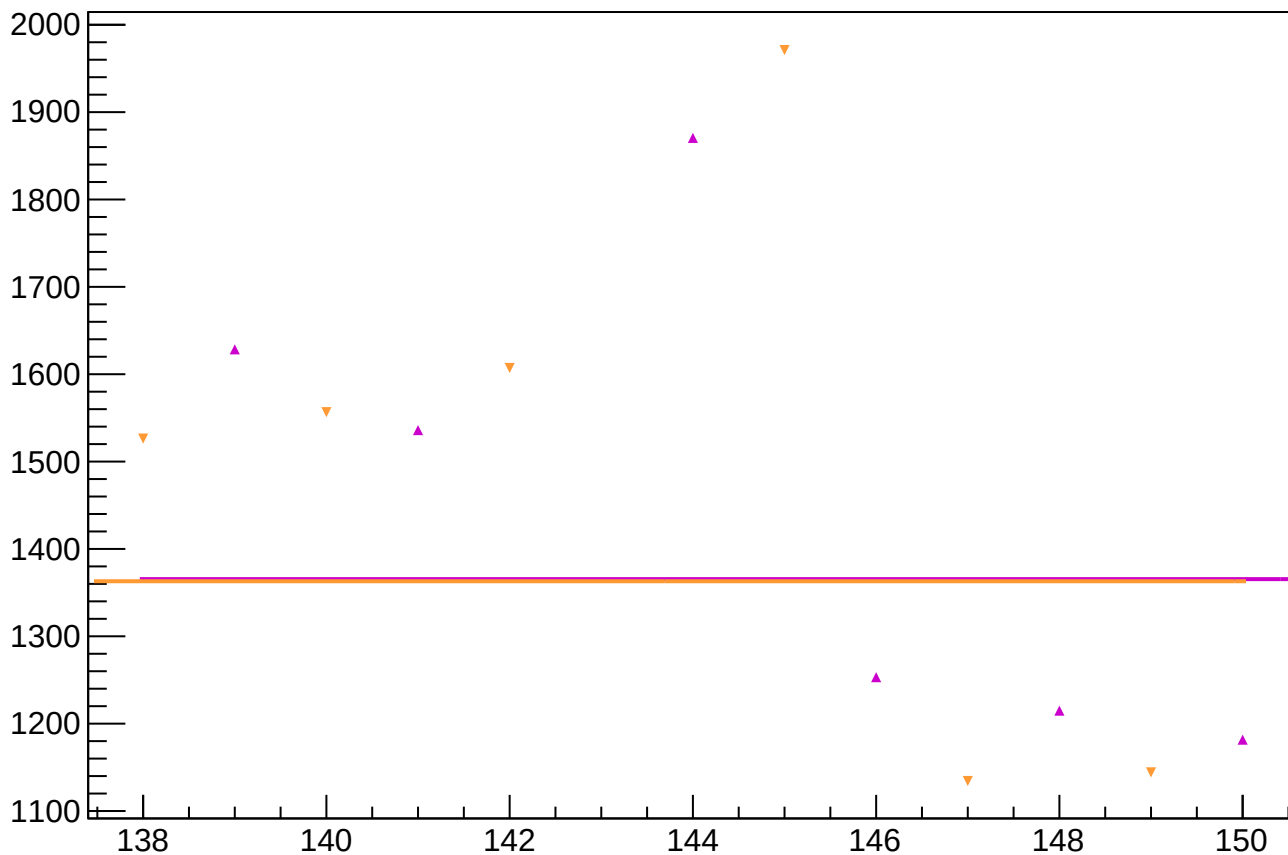
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 462.179+/-626.103  $\chi^2/\text{NDF}$ :1.6/5

Out: 343.986+/-671.378  $\chi^2/\text{NDF}$ :10.9/5

All: 407.202+/-457.891  $\chi^2/\text{NDF}$ : 12.5/11

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



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

Left Out: 1363.012+/-0.475  $\chi^2/\text{NDF}$ : 327456.3/5

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

Left In: 1365.445+/-0.443  $\chi^2/\text{NDF}$ : 261344.9/5

Left: 1364.313+/-0.324  $\chi^2/\text{NDF}$ : 588815.2/11

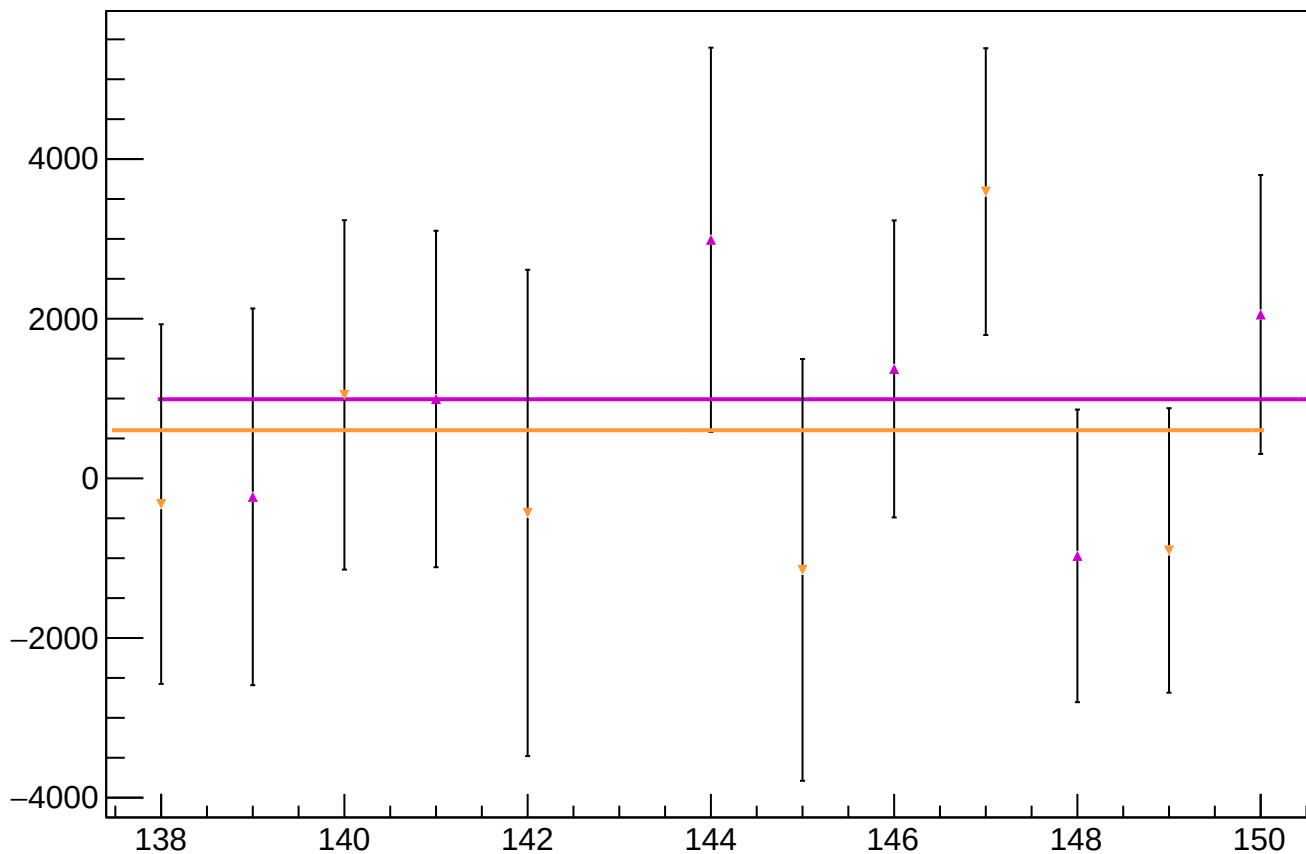
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1365.445+/-0.443  $\chi^2/\text{NDF}$ : 261344.9/5

Out: 1363.012+/-0.475  $\chi^2/\text{NDF}$ : 327456.3/5

All: 1364.313+/-0.324  $\chi^2/\text{NDF}$ : 588815.2/11

# asym\_usl\_mean vs Slug, Sign Corrected



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

Left Out: 602.994+/-883.293  $\chi^2/\text{NDF}$ : 4.2/5

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

Left In: 991.022+/-818.833  $\chi^2/\text{NDF}$ : 2.5/5

Left: 811.682+/-600.499  $\chi^2/\text{NDF}$ : 6.9/11

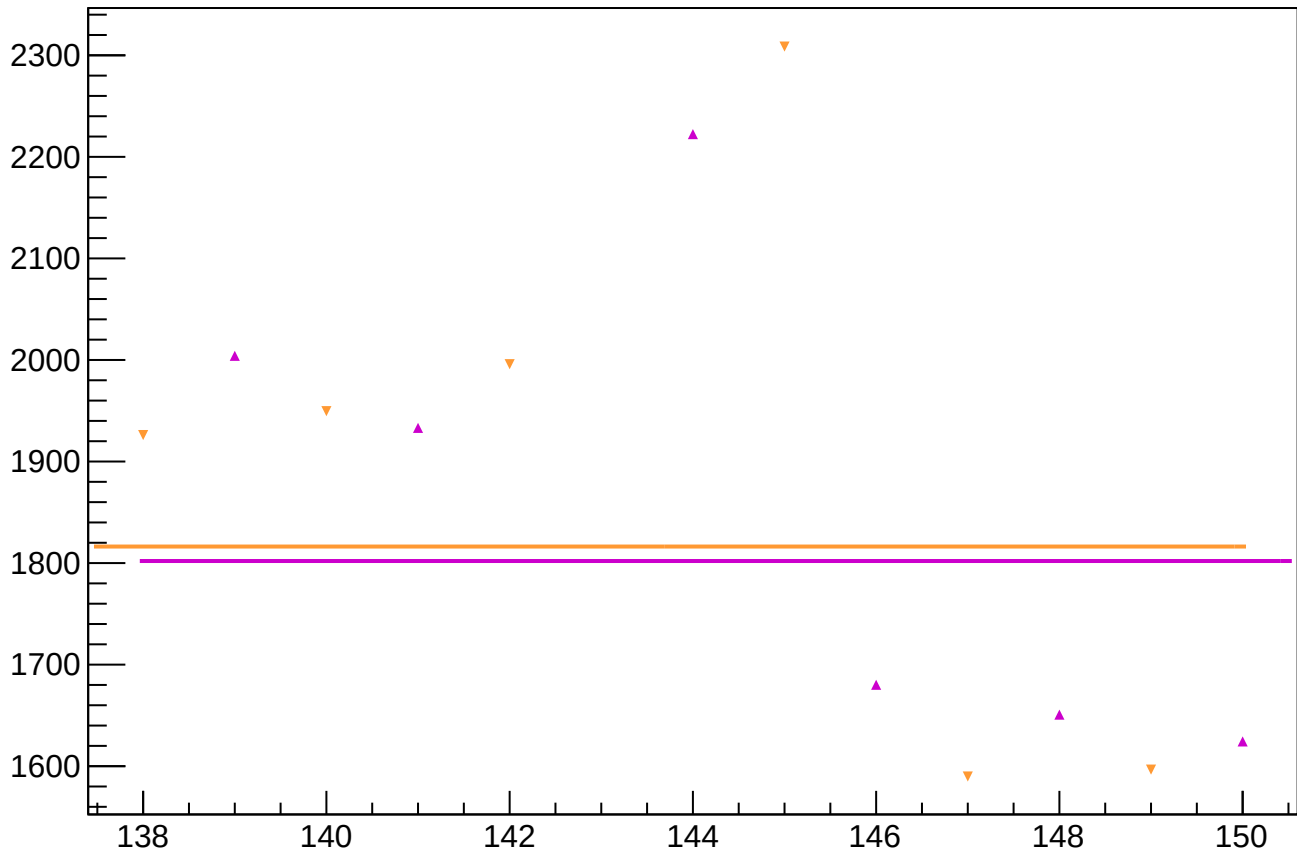
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 991.022+/-818.833  $\chi^2/\text{NDF}$ : 2.5/5

Out: 602.994+/-883.293  $\chi^2/\text{NDF}$ : 4.2/5

All: 811.682+/-600.499  $\chi^2/\text{NDF}$ : 6.9/11

# asym\_usl\_rms vs Slug, Sign Corrected



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

Left Out: 1816.286+/-0.625  $\chi^2/\text{NDF}$ :150747.7/5

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

Left In: 1802.036+/-0.579  $\chi^2/\text{NDF}$ :126303.4/5

Left: 1808.622+/-0.425  $\chi^2/\text{NDF}$ : 277331.0/11

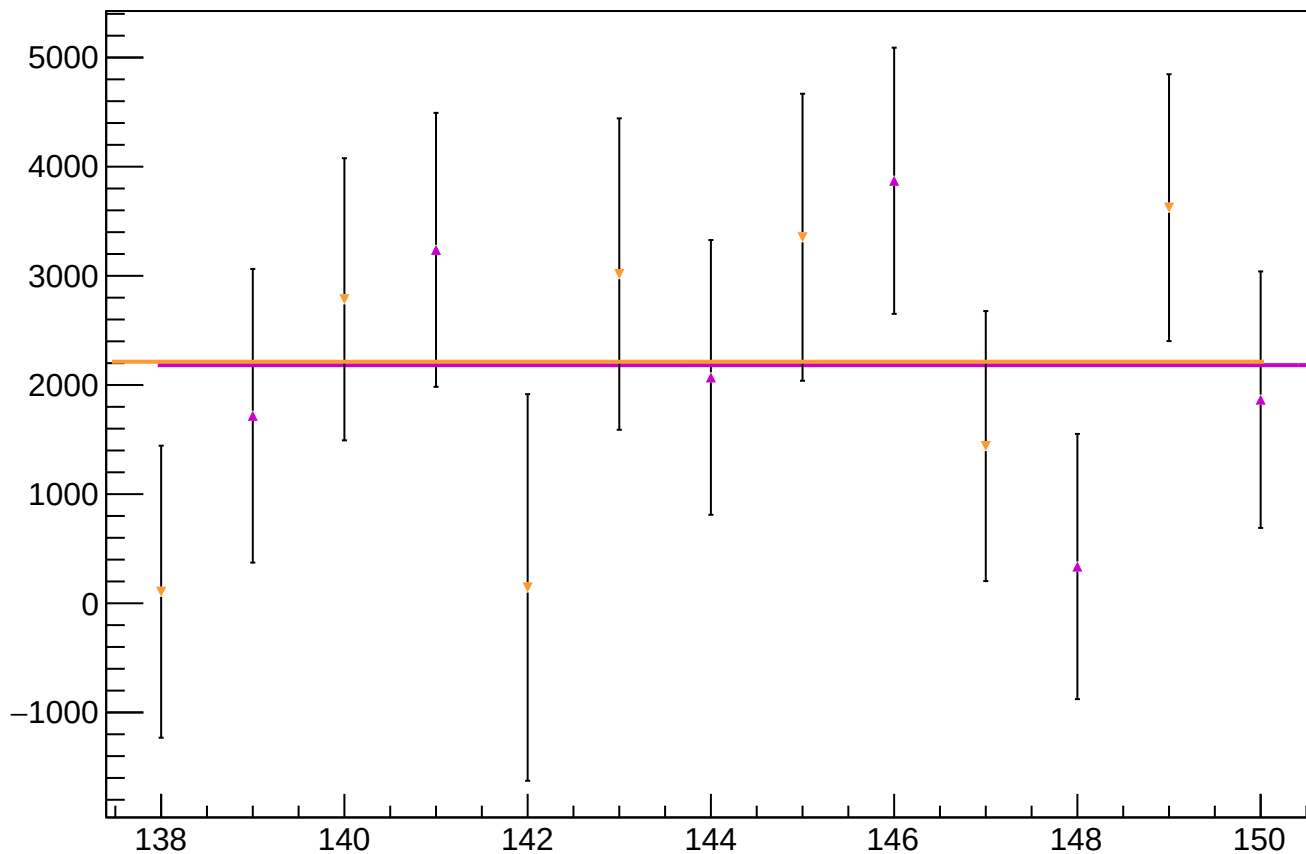
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1802.036+/-0.579  $\chi^2/\text{NDF}$ :126303.4/5

Out: 1816.286+/-0.625  $\chi^2/\text{NDF}$ :150747.7/5

All: 1808.622+/-0.425  $\chi^2/\text{NDF}$ : 277331.0/11

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



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

Left Out: 2213.029+/-508.402  $\chi^2/\text{NDF}$ : 6.8/6

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

Left In: 2181.877+/-506.794  $\chi^2/\text{NDF}$ : 5.1/5

Left: 2197.404+/-358.925  $\chi^2/\text{NDF}$ : 12.0/12

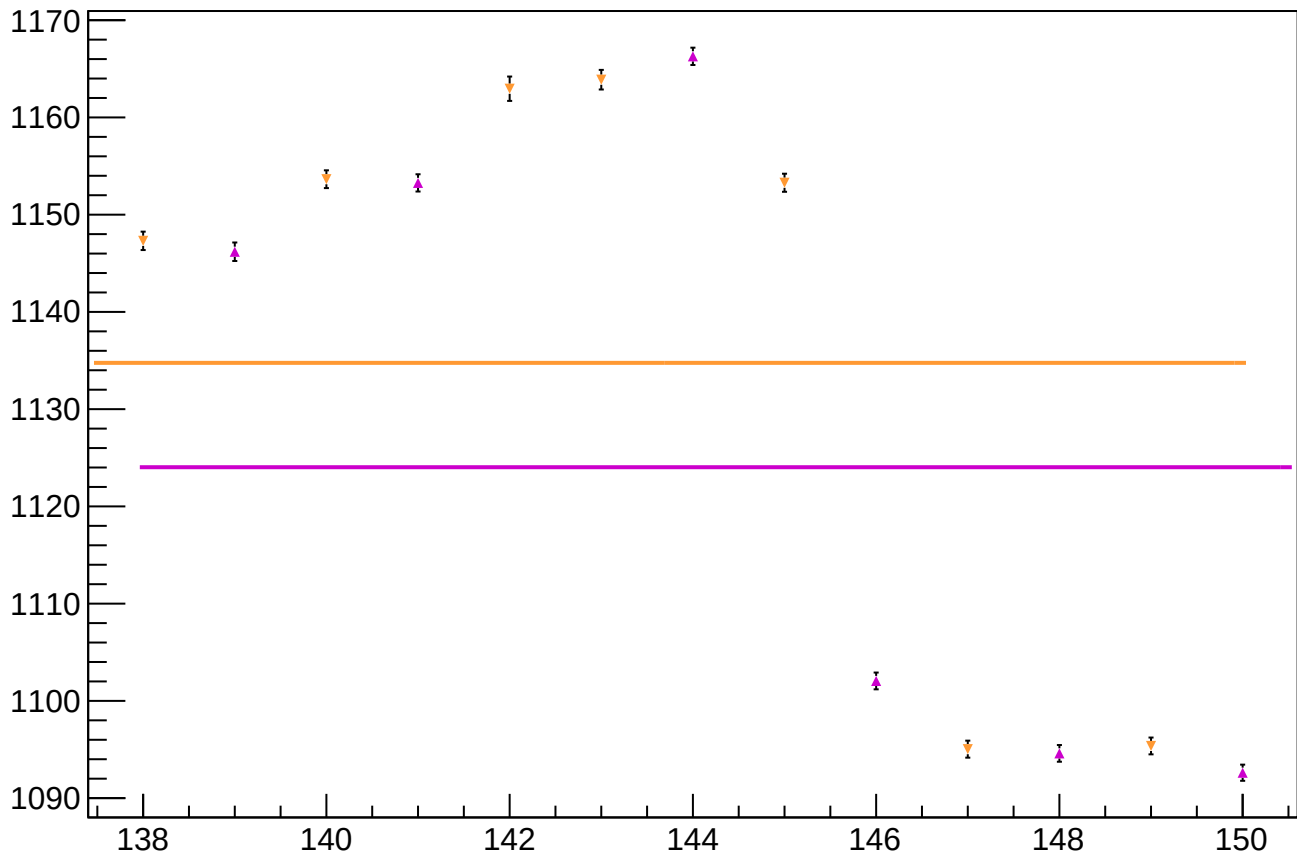
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2181.877+/-506.794  $\chi^2/\text{NDF}$ : 5.1/5

Out: 2213.029+/-508.402  $\chi^2/\text{NDF}$ : 6.8/6

All: 2197.404+/-358.925  $\chi^2/\text{NDF}$ : 12.0/12

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



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

Left Out: 1134.761+/-0.359  $\chi^2/\text{NDF}$ :6480.0/6

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

Left In: 1124.030+/-0.358  $\chi^2/\text{NDF}$ :7135.7/5

Left: 1129.378+/-0.254  $\chi^2/\text{NDF}$ : 14062.7/12

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

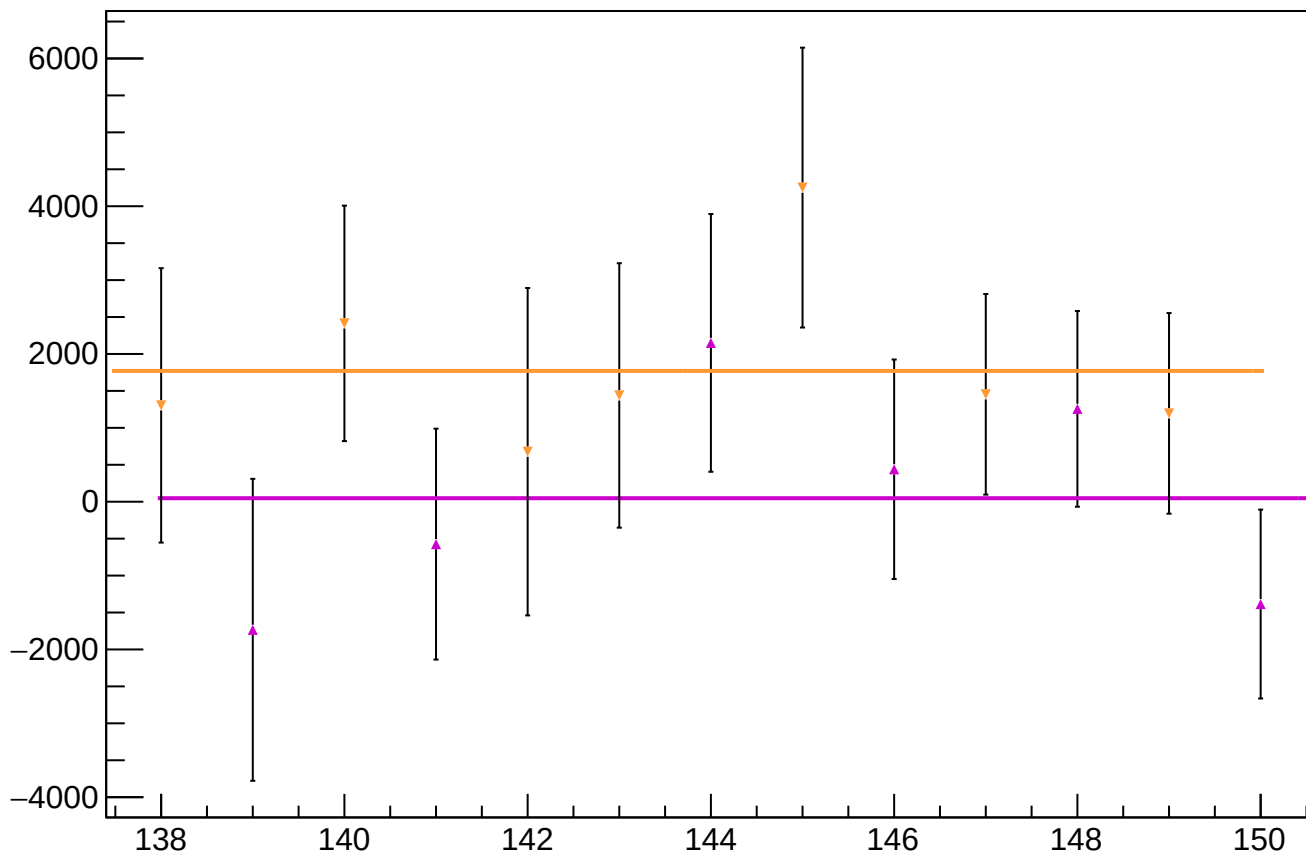
In: 1124.030+/-0.358  $\chi^2/\text{NDF}$ :7135.7/5

Out: 1134.761+/-0.359  $\chi^2/\text{NDF}$ :6480.0/6

All: 1129.378+/-0.254  $\chi^2/\text{NDF}$ : 14062.7/12



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



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

Left Out: 1770.555+/-624.685  $\chi^2/\text{NDF}$ : 2.5/6

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

Left In: 47.471+/-618.717  $\chi^2/\text{NDF}$ : 4.5/5

Left: 900.743+/-439.594  $\chi^2/\text{NDF}$ : 10.8/12

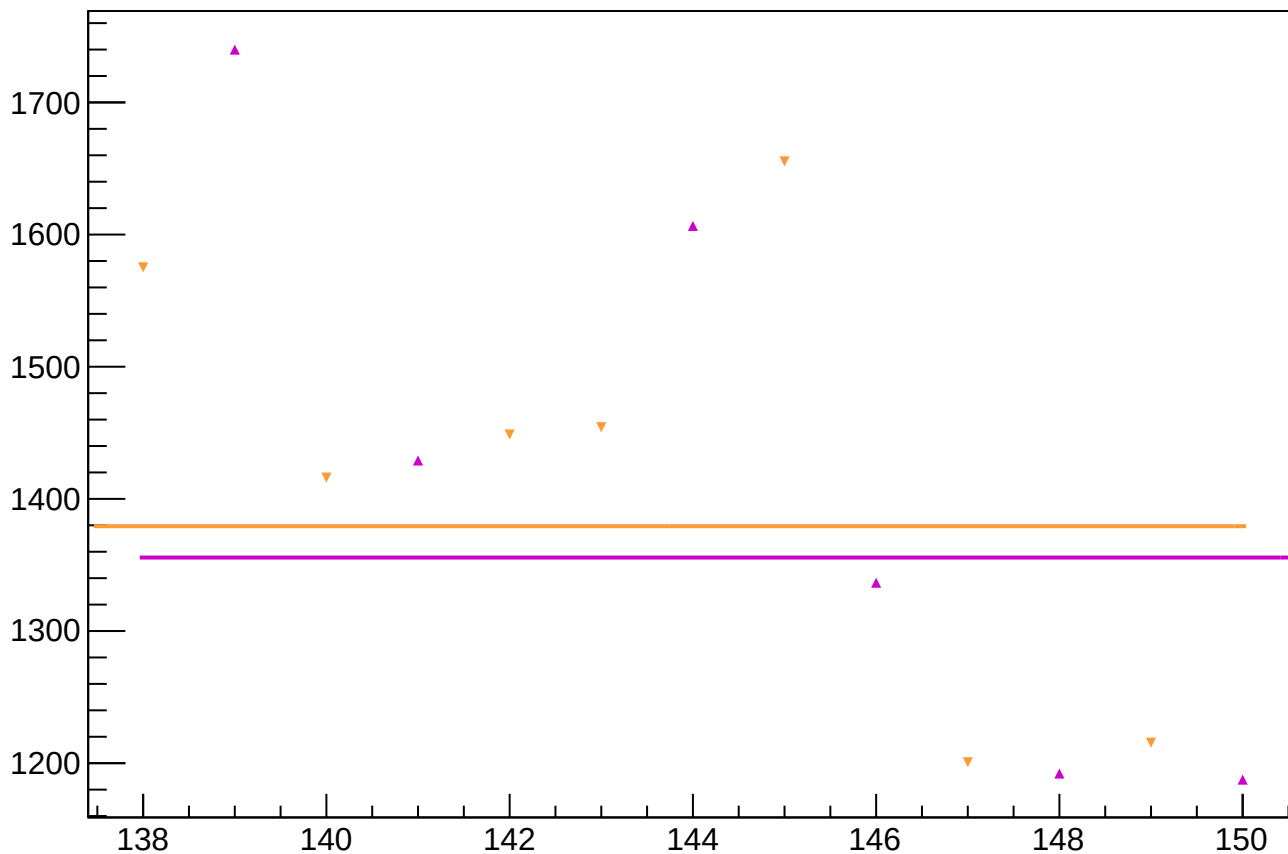
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 47.471+/-618.717  $\chi^2/\text{NDF}$ : 4.5/5

Out: 1770.555+/-624.685  $\chi^2/\text{NDF}$ : 2.5/6

All: 900.743+/-439.594  $\chi^2/\text{NDF}$ : 10.8/12

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



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

Left Out: 1379.319+/-0.442  $\chi^2/\text{NDF}$ :134962.7/6

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

Left In: 1355.615+/-0.437  $\chi^2/\text{NDF}$ :181864.9/5

Left: 1367.353+/-0.311  $\chi^2/\text{NDF}$ : 318281.2/12

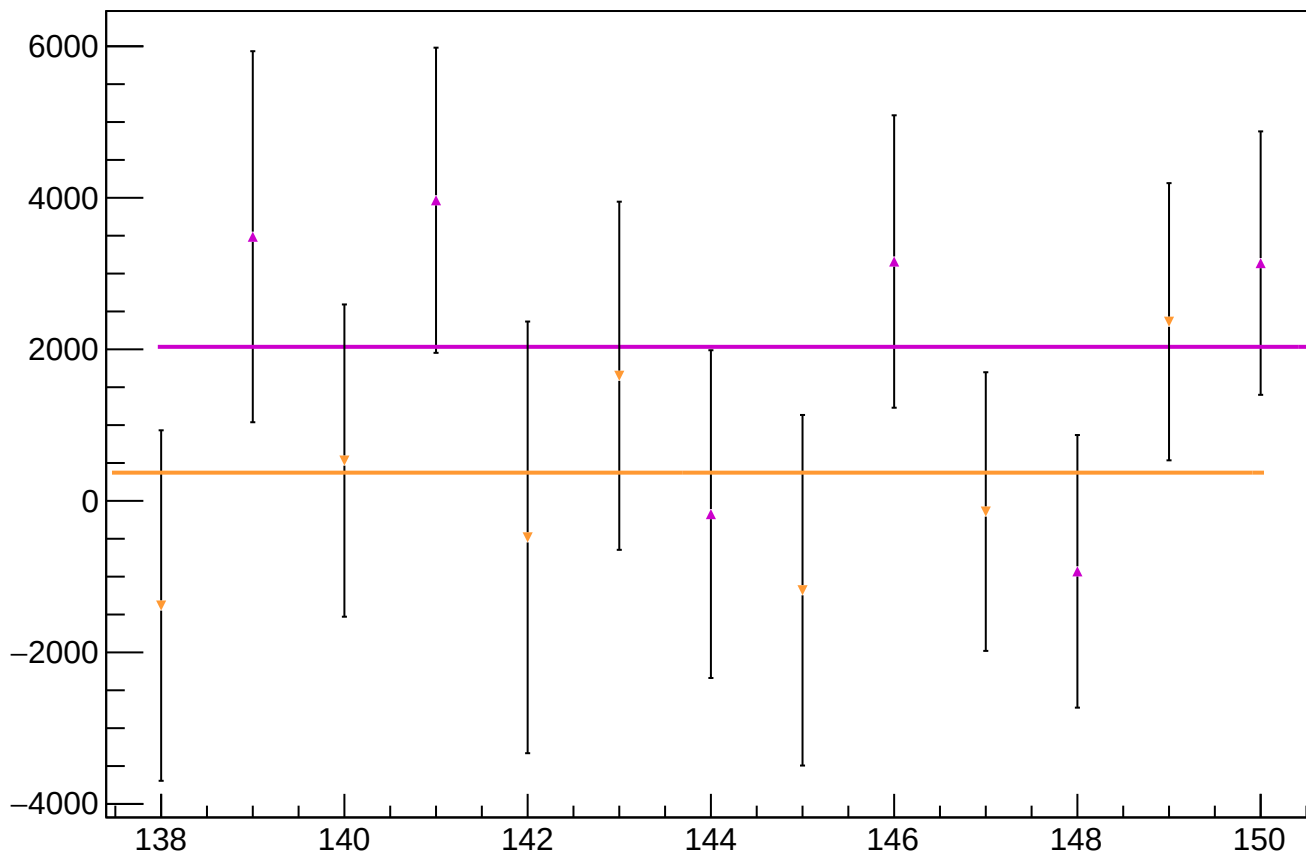
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1355.615+/-0.437  $\chi^2/\text{NDF}$ :181864.9/5

Out: 1379.319+/-0.442  $\chi^2/\text{NDF}$ :134962.7/6

All: 1367.353+/-0.311  $\chi^2/\text{NDF}$ : 318281.2/12

# asym\_usr\_mean vs Slug, Sign Corrected



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

Left Out: 372.515+/-812.062  $\chi^2/\text{NDF}$ : 2.7/6

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

Left In: 2033.056+/-807.034  $\chi^2/\text{NDF}$ : 5.8/5

Left: 1207.943+/-572.429  $\chi^2/\text{NDF}$ : 10.6/12

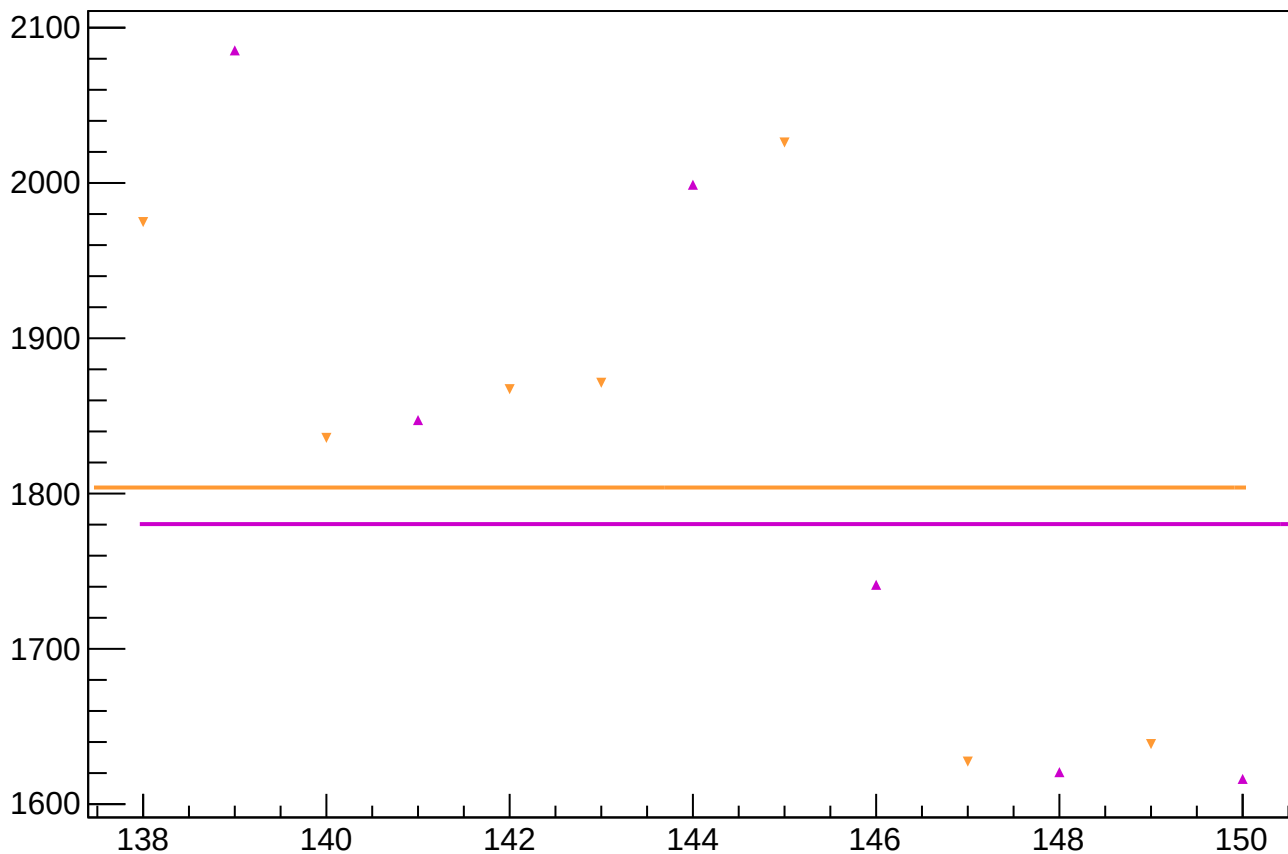
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2033.056+/-807.034  $\chi^2/\text{NDF}$ : 5.8/5

Out: 372.515+/-812.062  $\chi^2/\text{NDF}$ : 2.7/6

All: 1207.943+/-572.429  $\chi^2/\text{NDF}$ : 10.6/12

# asym\_usr\_rms vs Slug, Sign Corrected



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

Left Out: 1803.892+/-0.574  $\chi^2/\text{NDF}$ : 67296.2/6

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

Left In: 1780.338+/-0.571  $\chi^2/\text{NDF}$ : 88073.1/5

Left: 1792.042+/-0.405  $\chi^2/\text{NDF}$ : 156215.8/12

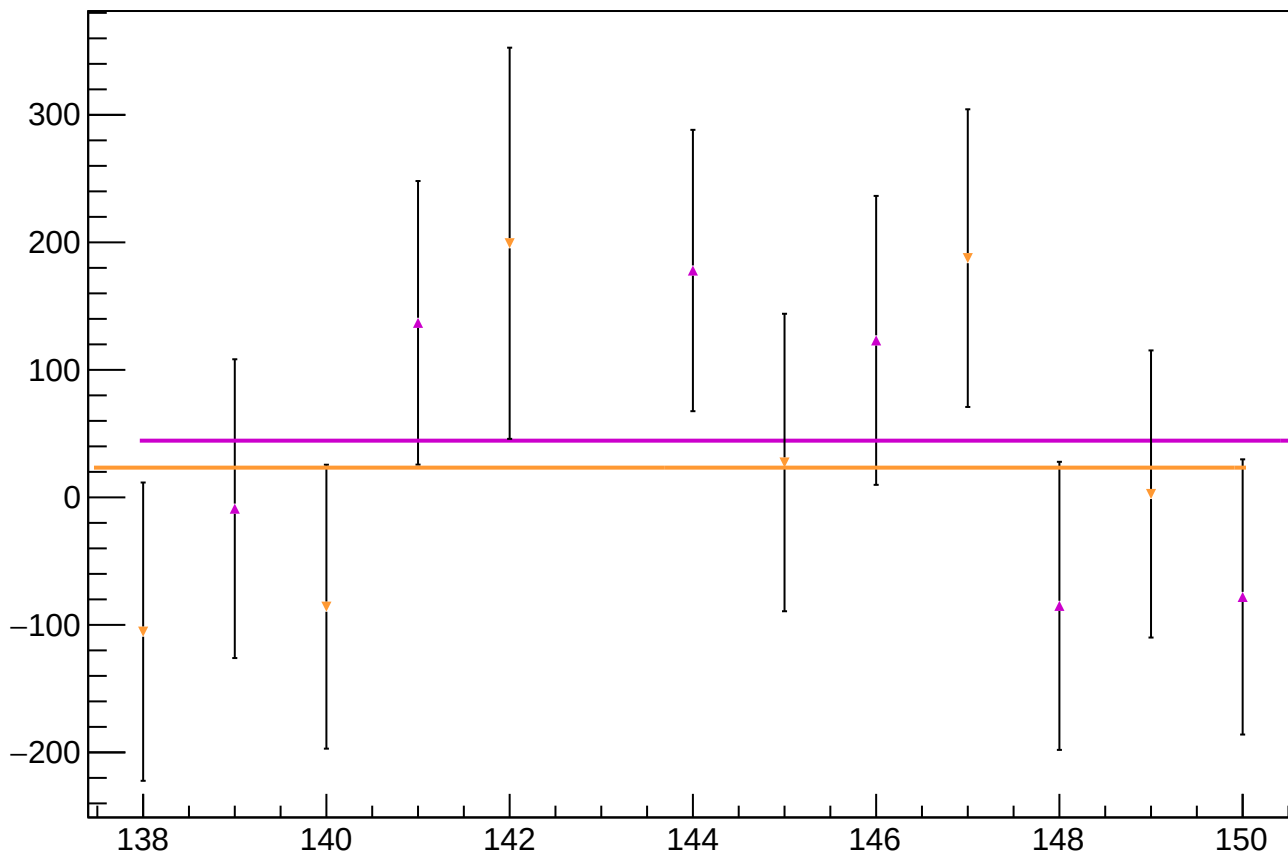
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1780.338+/-0.571  $\chi^2/\text{NDF}$ : 88073.1/5

Out: 1803.892+/-0.574  $\chi^2/\text{NDF}$ : 67296.2/6

All: 1792.042+/-0.405  $\chi^2/\text{NDF}$ : 156215.8/12

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



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

Left Out: 23.330+/-48.679  $\chi^2/\text{NDF}$ : 5.5/5

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

Left In: 44.486+/-45.739  $\chi^2/\text{NDF}$ : 5.4/5

Left: 34.566+/-33.333  $\chi^2/\text{NDF}$ : 11.0/11

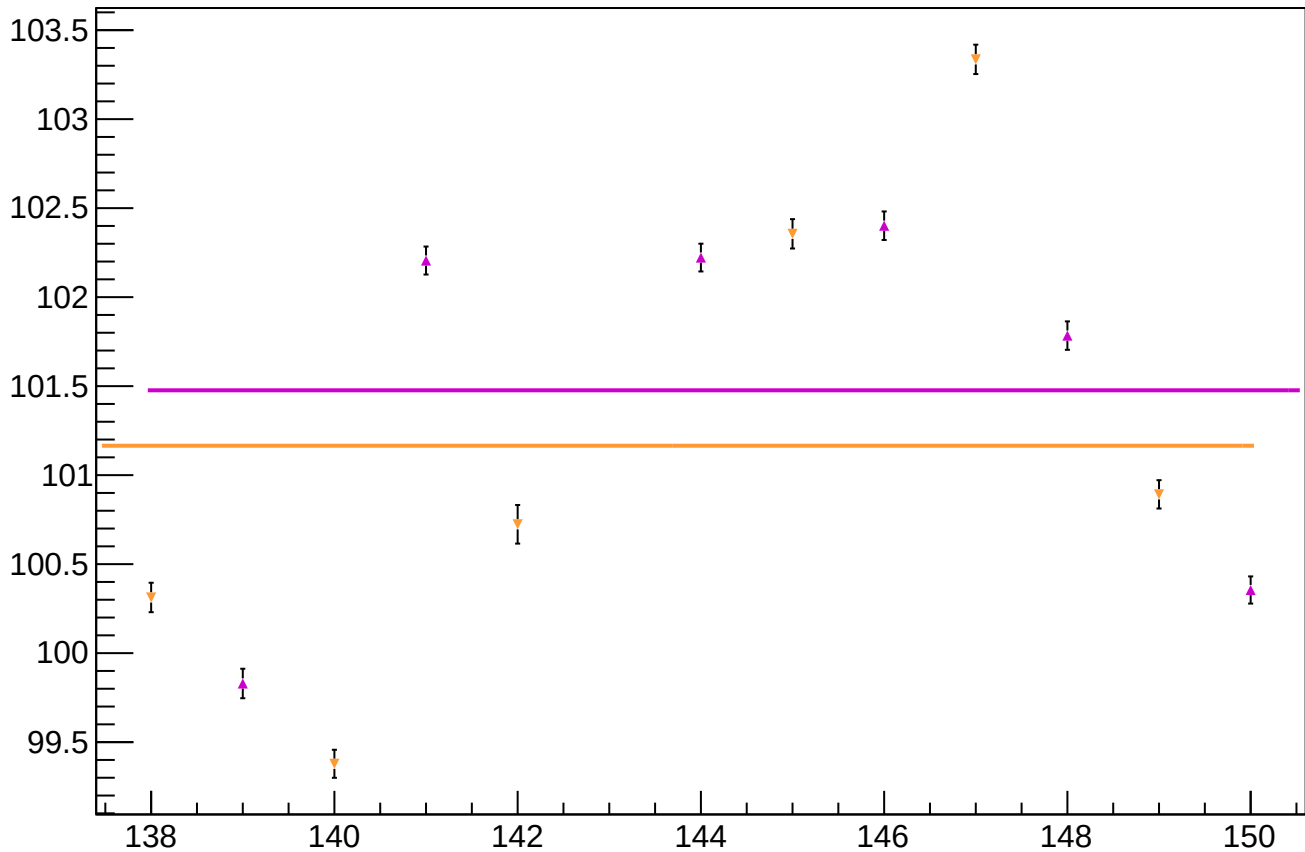
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 44.486+/-45.739  $\chi^2/\text{NDF}$ : 5.4/5

Out: 23.330+/-48.679  $\chi^2/\text{NDF}$ : 5.5/5

All: 34.566+/-33.333  $\chi^2/\text{NDF}$ : 11.0/11

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



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

Left Out: 101.165+/-0.034  $\chi^2/\text{NDF}$ :1549.5/5

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

Left In: 101.477+/-0.032  $\chi^2/\text{NDF}$ :936.7/5

Left: 101.331+/-0.024  $\chi^2/\text{NDF}$ : 2529.7/11

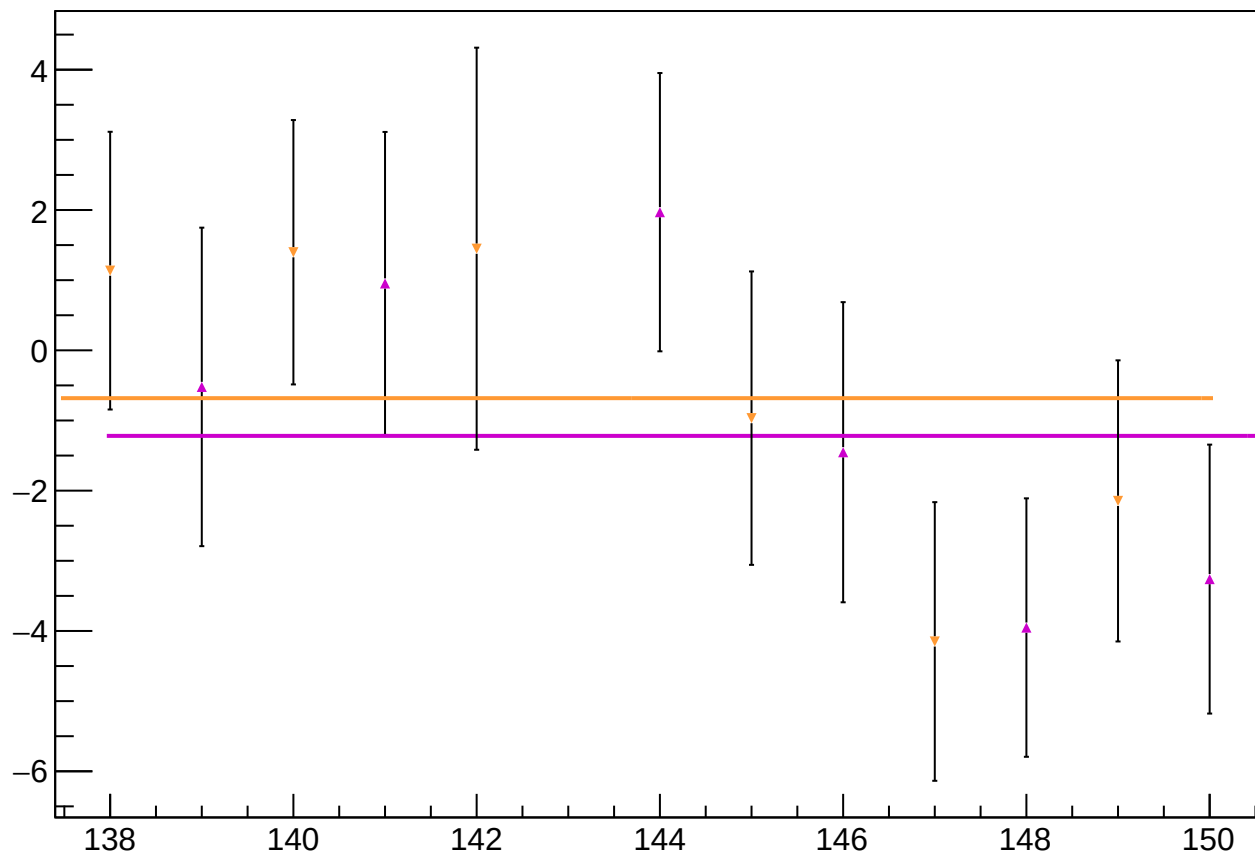
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 101.477+/-0.032  $\chi^2/\text{NDF}$ :936.7/5

Out: 101.165+/-0.034  $\chi^2/\text{NDF}$ :1549.5/5

All: 101.331+/-0.024  $\chi^2/\text{NDF}$ : 2529.7/11

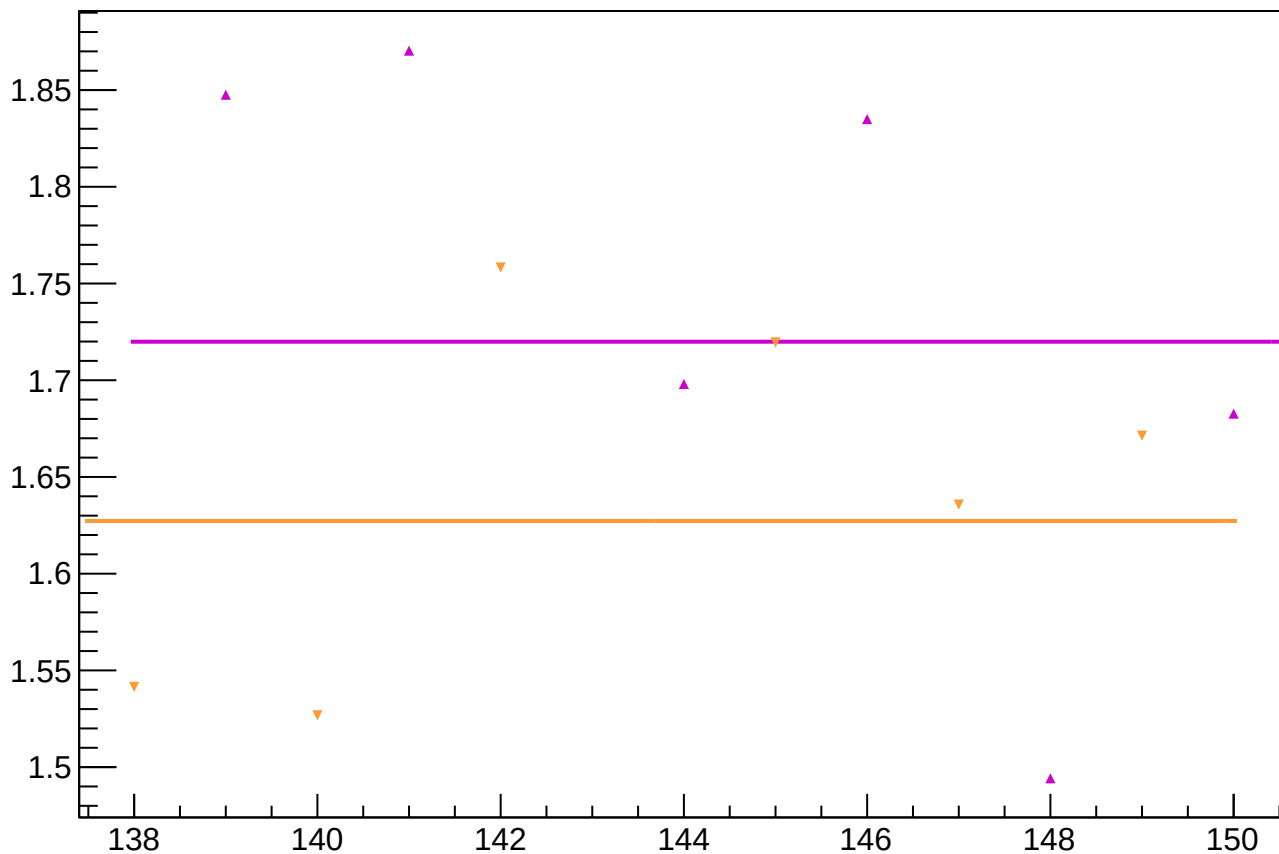
# asym\_dsl\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.682+/-0.848  $\chi^2/\text{NDF}$ : 6.2/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.219+/-0.831  $\chi^2/\text{NDF}$ : 7.0/5

Left: -0.956+/-0.594  $\chi^2/\text{NDF}$ : 13.5/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.219+/-0.831  $\chi^2/\text{NDF}$ : 7.0/5  
 Out: -0.682+/-0.848  $\chi^2/\text{NDF}$ : 6.2/5  
 All: -0.956+/-0.594  $\chi^2/\text{NDF}$ : 13.5/11

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



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

Left Out: 1.627+/-0.001  $\chi^2/\text{NDF}$ :18527.9/5

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

Left In: 1.720+/-0.001  $\chi^2/\text{NDF}$ :52850.5/5

Left: 1.675+/-0.000  $\chi^2/\text{NDF}$ : 83560.3/11

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

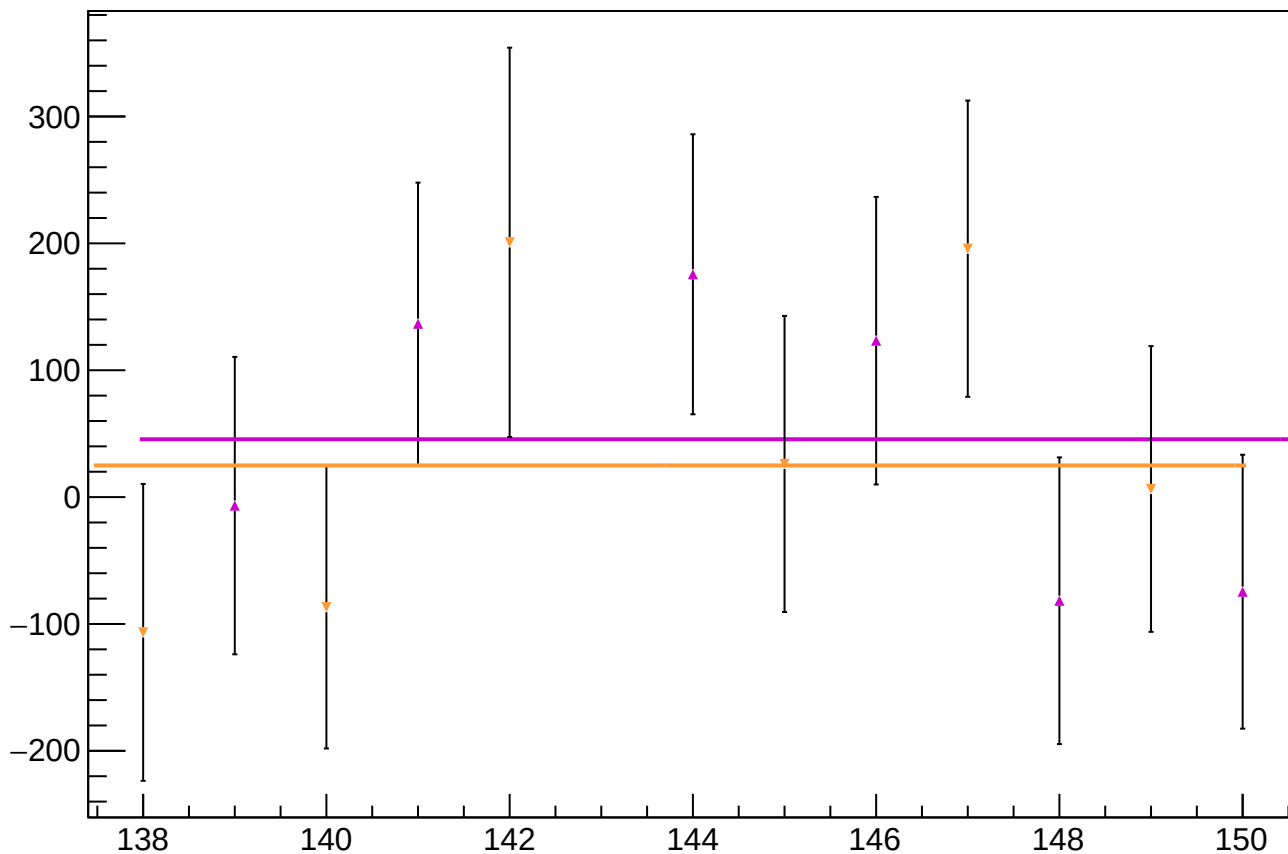
In: 1.720+/-0.001  $\chi^2/\text{NDF}$ :52850.5/5

Out: 1.627+/-0.001  $\chi^2/\text{NDF}$ :18527.9/5

All: 1.675+/-0.000  $\chi^2/\text{NDF}$ : 83560.3/11



# asym\_dsl\_mean vs Slug, Sign Corrected



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

Left Out: 24.975+/-48.691  $\chi^2/\text{NDF}$ : 5.8/5

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

Left In: 45.587+/-45.752  $\chi^2/\text{NDF}$ : 5.2/5

Left: 35.922+/-33.342  $\chi^2/\text{NDF}$ : 11.1/11

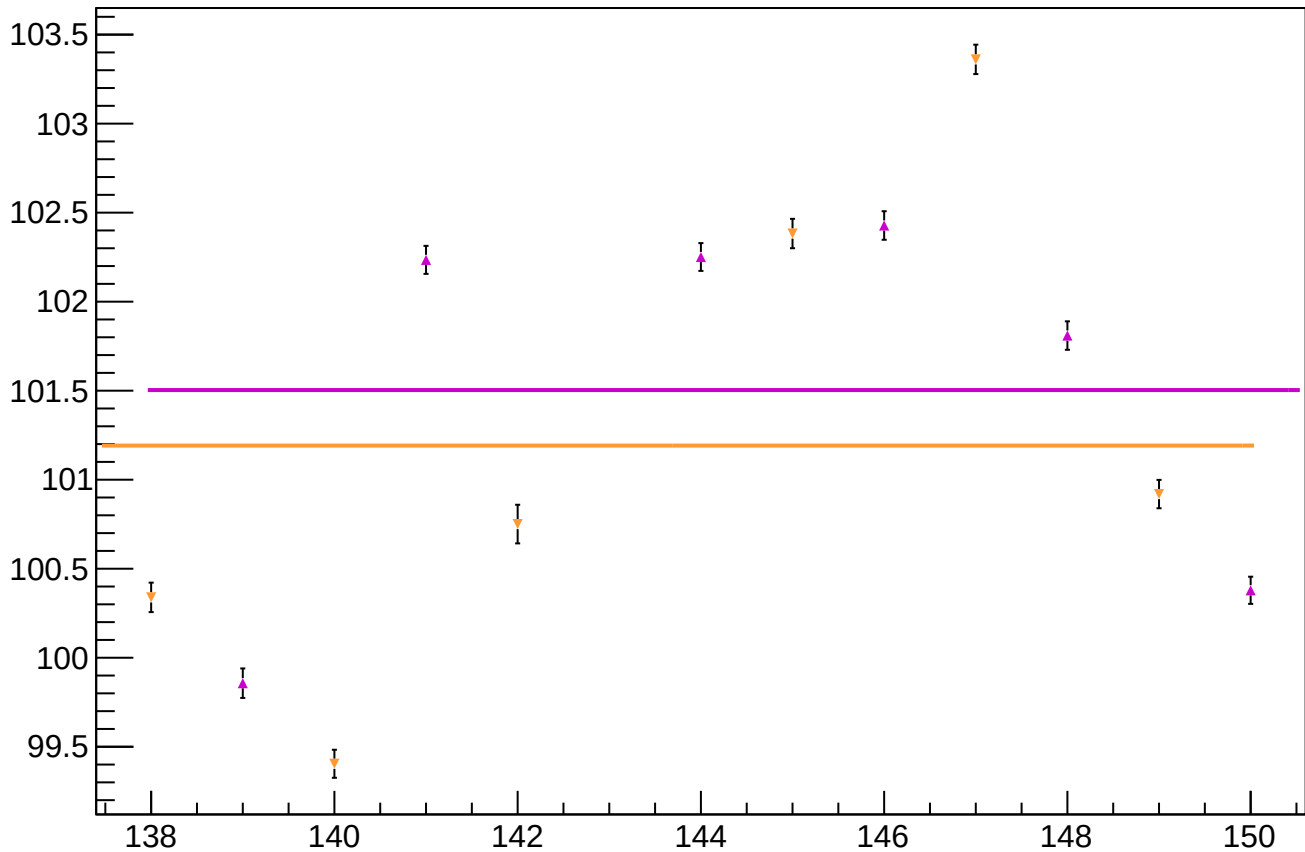
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 45.587+/-45.752  $\chi^2/\text{NDF}$ : 5.2/5

Out: 24.975+/-48.691  $\chi^2/\text{NDF}$ : 5.8/5

All: 35.922+/-33.342  $\chi^2/\text{NDF}$ : 11.1/11

# asym\_dsl\_rms vs Slug, Sign Corrected



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

Left Out: 101.192+/-0.034  $\chi^2/\text{NDF}$ :1548.2/5

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

Left In: 101.504+/-0.032  $\chi^2/\text{NDF}$ :937.7/5

Left: 101.357+/-0.024  $\chi^2/\text{NDF}$ : 2529.5/11

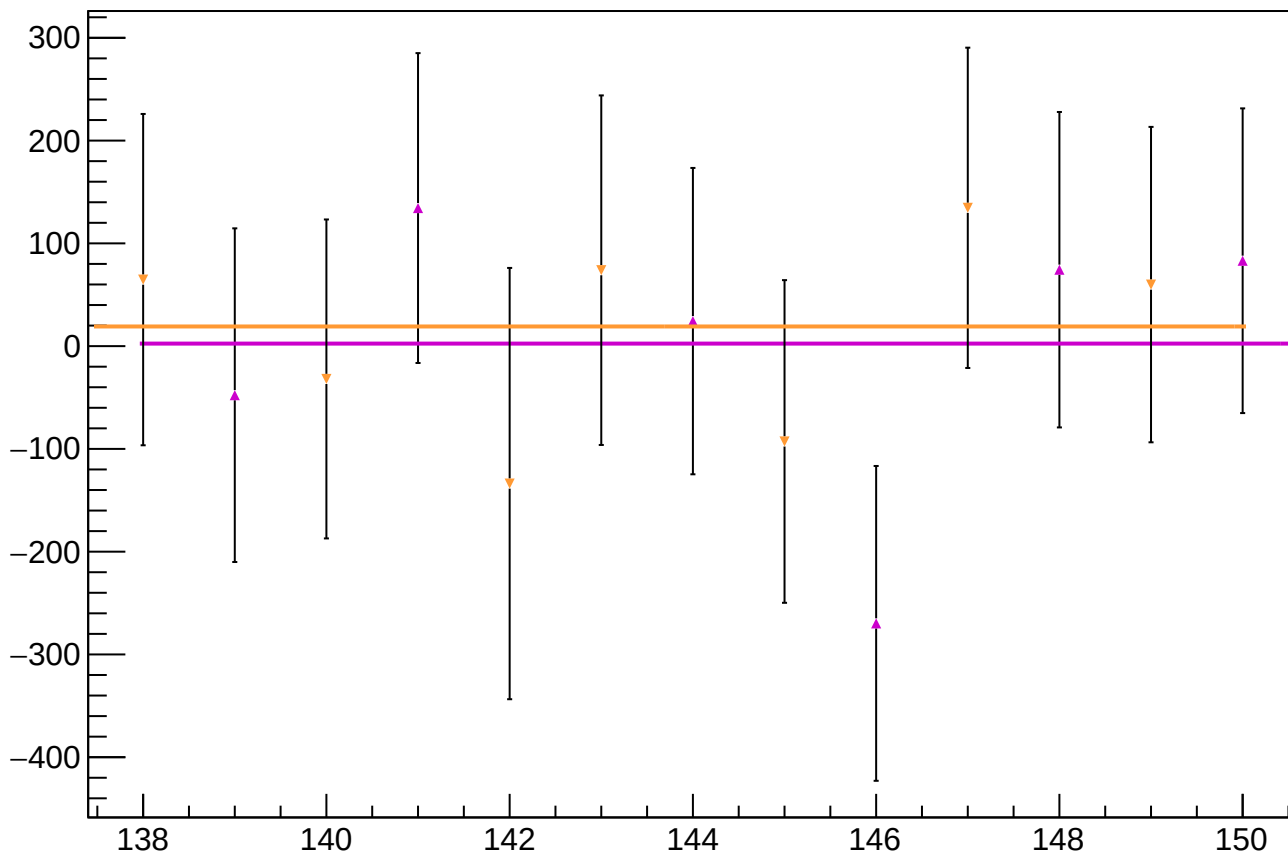
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 101.504+/-0.032  $\chi^2/\text{NDF}$ :937.7/5

Out: 101.192+/-0.034  $\chi^2/\text{NDF}$ :1548.2/5

All: 101.357+/-0.024  $\chi^2/\text{NDF}$ : 2529.5/11

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



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

Left Out: 19.129+/-61.838  $\chi^2/\text{NDF}$ :2.0/6

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

Left In: 2.471+/-62.313  $\chi^2/\text{NDF}$ :4.6/5

Left: 10.864+/-43.893  $\chi^2/\text{NDF}$ : 6.5/12

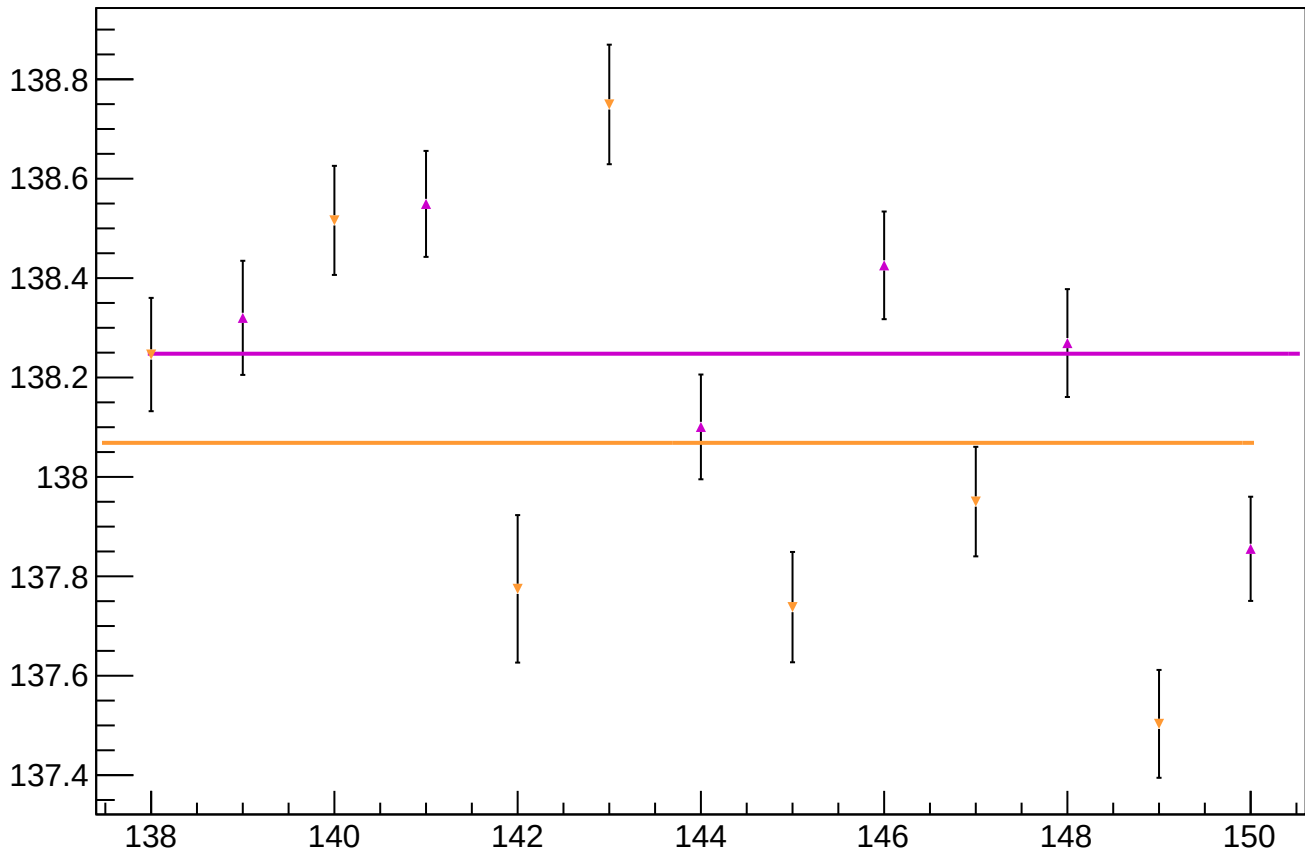
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.471+/-62.313  $\chi^2/\text{NDF}$ :4.6/5

Out: 19.129+/-61.838  $\chi^2/\text{NDF}$ :2.0/6

All: 10.864+/-43.893  $\chi^2/\text{NDF}$ : 6.5/12

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



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

Left Out: 138.069+/-0.044  $\chi^2/\text{NDF}$ :92.2/6

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

Left In: 138.248+/-0.044  $\chi^2/\text{NDF}$ :27.1/5

Left: 138.158+/-0.031  $\chi^2/\text{NDF}$ : 127.6/12

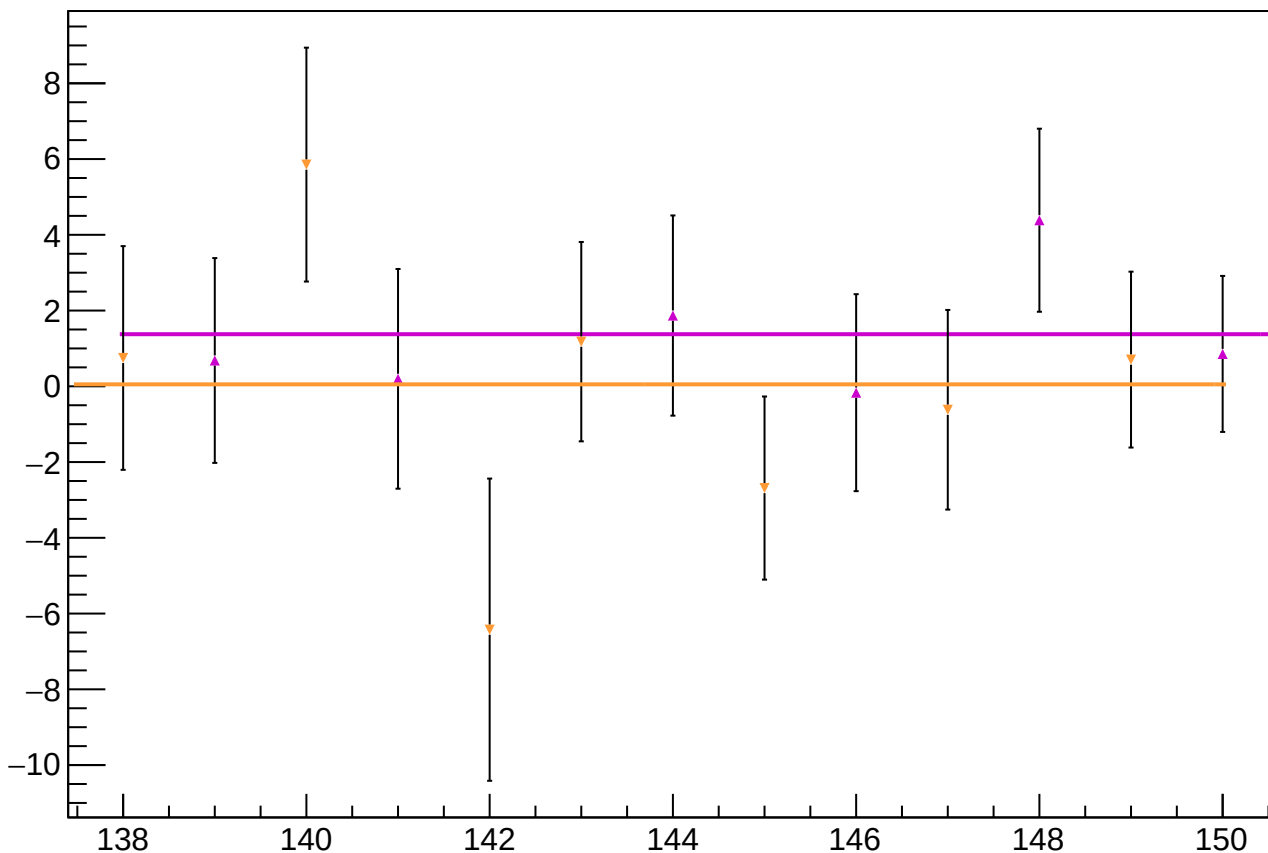
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 138.248+/-0.044  $\chi^2/\text{NDF}$ :27.1/5

Out: 138.069+/-0.044  $\chi^2/\text{NDF}$ :92.2/6

All: 138.158+/-0.031  $\chi^2/\text{NDF}$ : 127.6/12

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



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

Left Out: 0.052 $\pm$ 1.038  $\chi^2/\text{NDF}$ : 7.8/6

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

Left In: 1.376 $\pm$ 1.024  $\chi^2/\text{NDF}$ : 2.2/5

Left: 0.723 $\pm$ 0.729  $\chi^2/\text{NDF}$ : 10.9/12

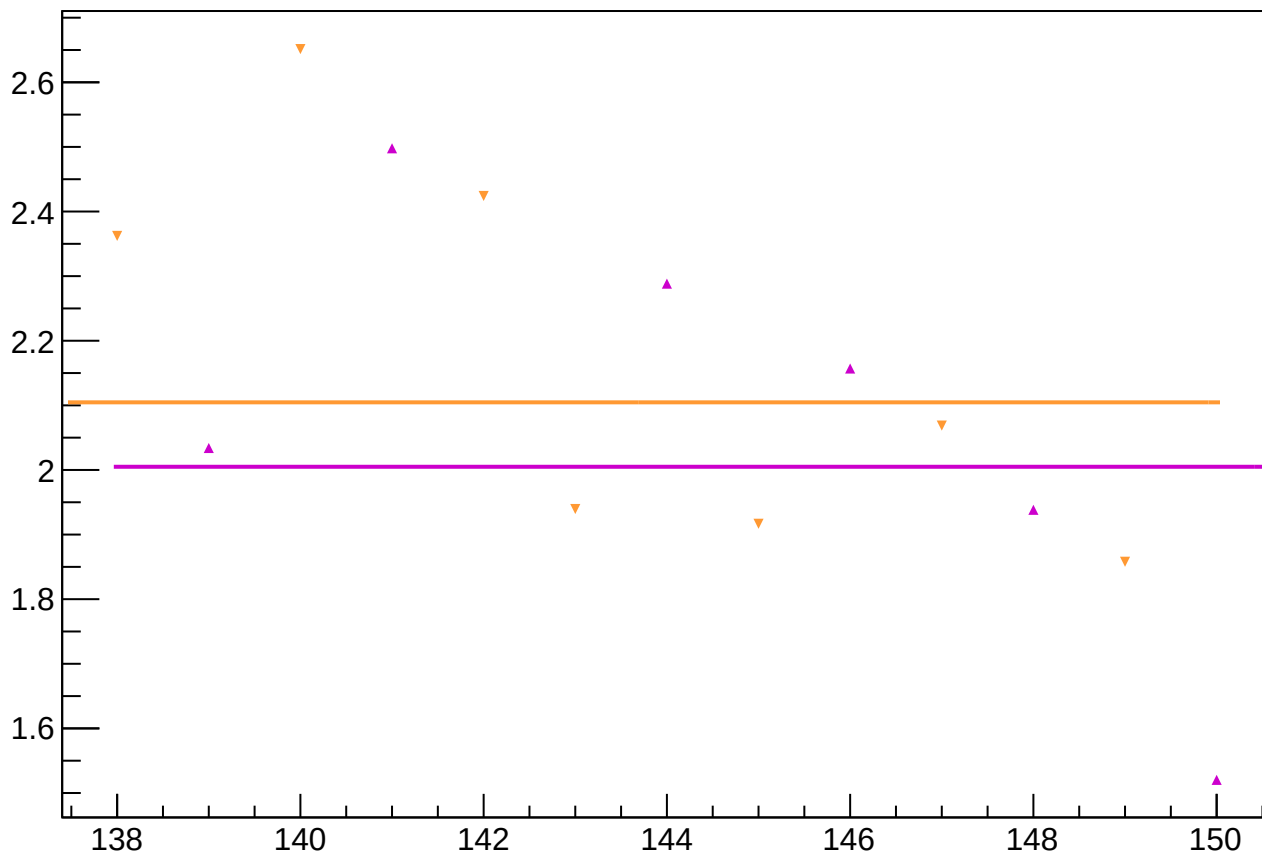
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1.376 $\pm$ 1.024  $\chi^2/\text{NDF}$ : 2.2/5

Out: 0.052 $\pm$ 1.038  $\chi^2/\text{NDF}$ : 7.8/6

All: 0.723 $\pm$ 0.729  $\chi^2/\text{NDF}$ : 10.9/12

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



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

Left Out: 2.105+/-0.001  $\chi^2/\text{NDF}$ :133680.8/6

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

Left In: 2.005+/-0.001  $\chi^2/\text{NDF}$ :200071.9/5

Left: 2.054+/-0.001  $\chi^2/\text{NDF}$ : 343103.4/12

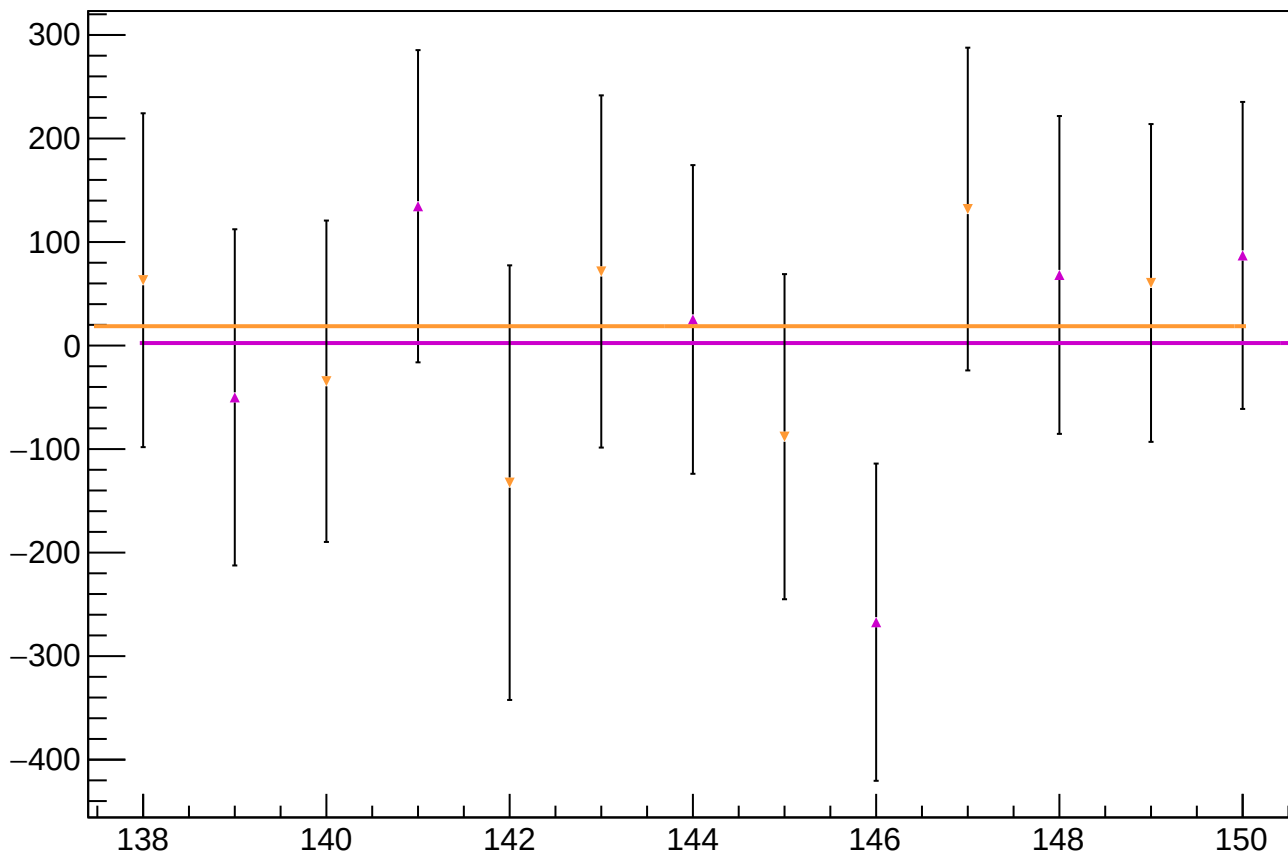
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.005+/-0.001  $\chi^2/\text{NDF}$ :200071.9/5

Out: 2.105+/-0.001  $\chi^2/\text{NDF}$ :133680.8/6

All: 2.054+/-0.001  $\chi^2/\text{NDF}$ : 343103.4/12

# asym\_dsr\_mean vs Slug, Sign Corrected



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

Left Out: 18.700 $\pm$ 61.855  $\chi^2$ /NDF:1.9/6

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

Left In: 2.424 $\pm$ 62.330  $\chi^2$ /NDF:4.5/5

Left: 10.624 $\pm$ 43.905  $\chi^2$ /NDF: 6.4/12

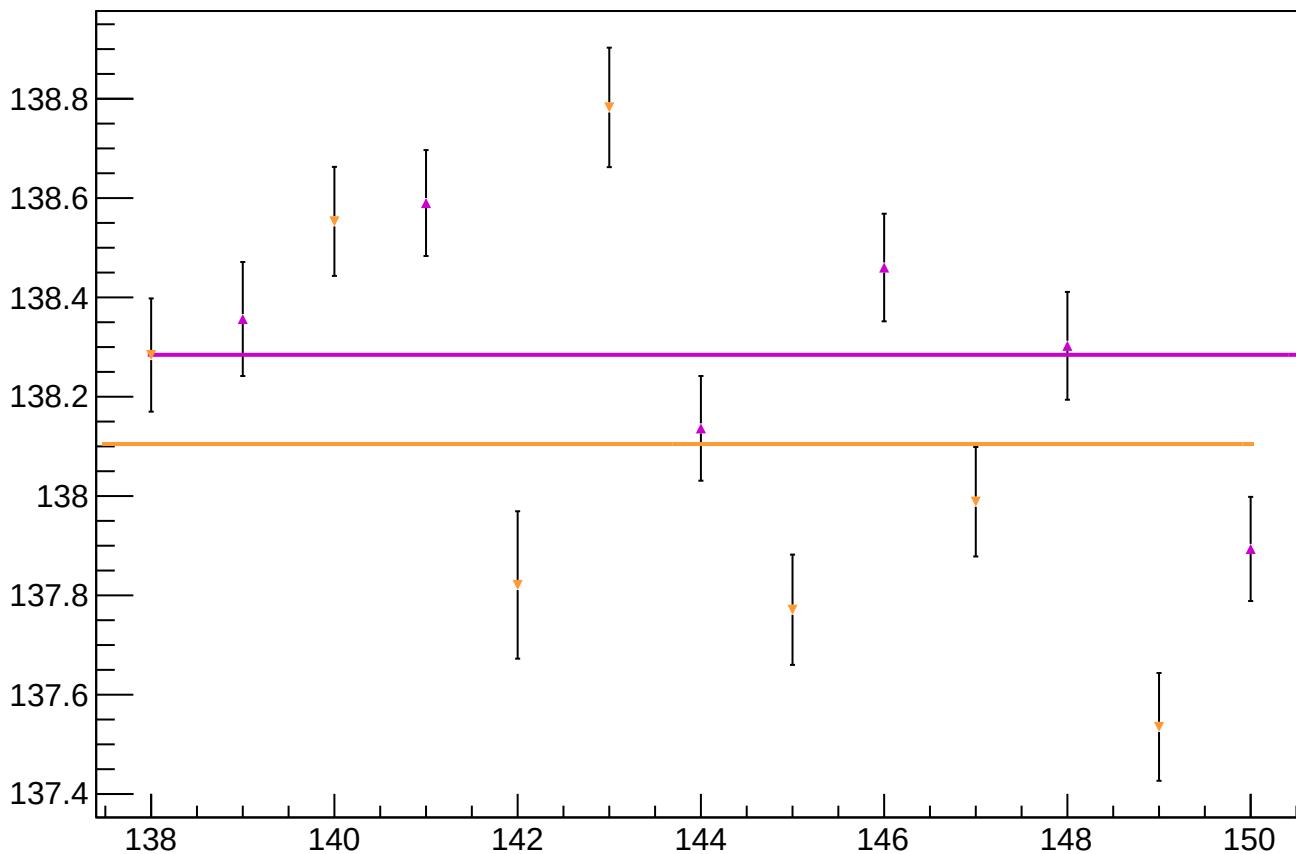
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 2.424 $\pm$ 62.330  $\chi^2$ /NDF:4.5/5

Out: 18.700 $\pm$ 61.855  $\chi^2$ /NDF:1.9/6

All: 10.624 $\pm$ 43.905  $\chi^2$ /NDF: 6.4/12

# asym\_dsr\_rms vs Slug, Sign Corrected



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

Left Out: 138.105+/-0.044  $\chi^2/\text{NDF}$ :92.3/6

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

Left In: 138.284+/-0.044  $\chi^2/\text{NDF}$ :27.1/5

Left: 138.194+/-0.031  $\chi^2/\text{NDF}$ : 127.8/12

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

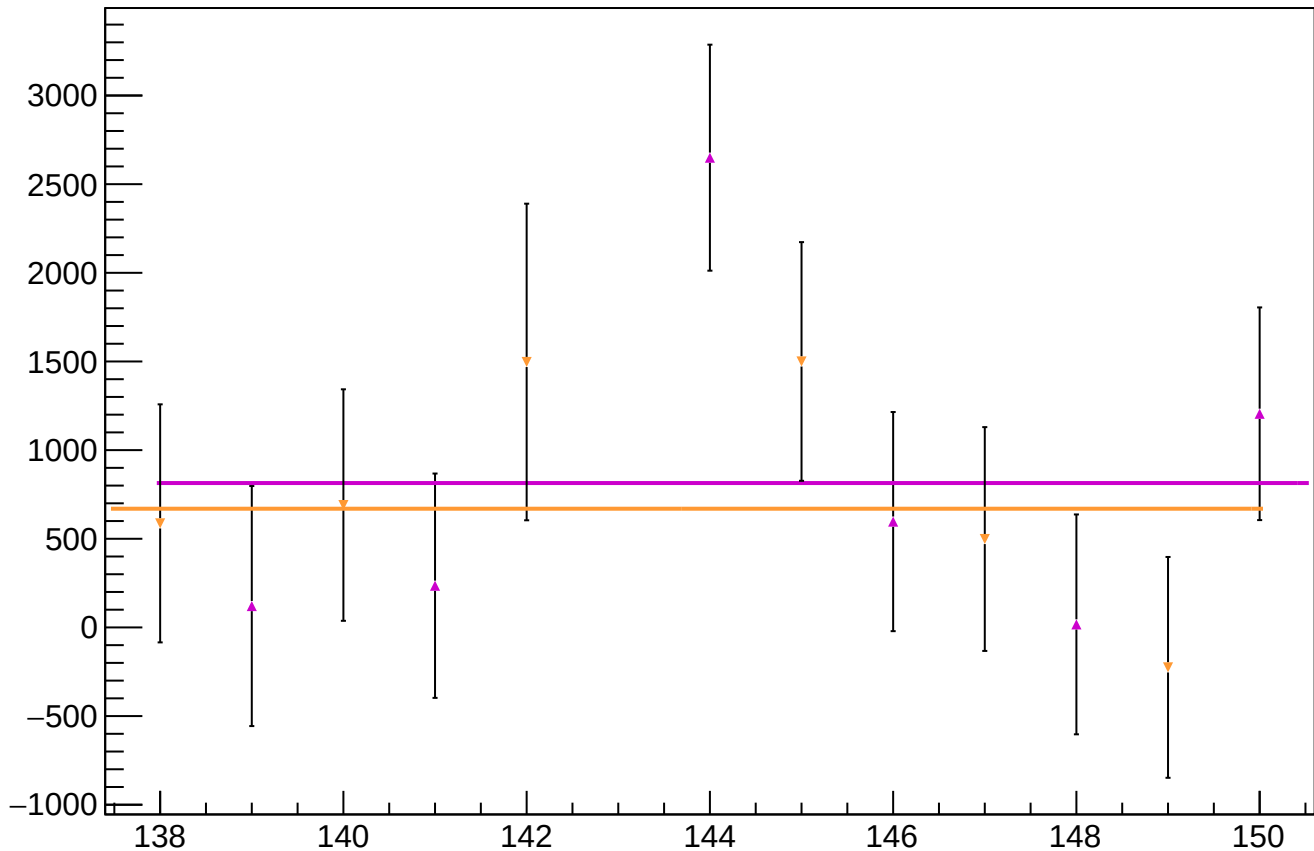
In: 138.284+/-0.044  $\chi^2/\text{NDF}$ :27.1/5

Out: 138.105+/-0.044  $\chi^2/\text{NDF}$ :92.3/6

All: 138.194+/-0.031  $\chi^2/\text{NDF}$ : 127.8/12



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



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

Left Out: 669.522+/-276.126  $\chi^2/\text{NDF}$ : 4.5/5

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

Left In: 814.339+/-256.986  $\chi^2/\text{NDF}$ : 12.4/5

Left: 747.123+/-188.119  $\chi^2/\text{NDF}$ : 17.1/11

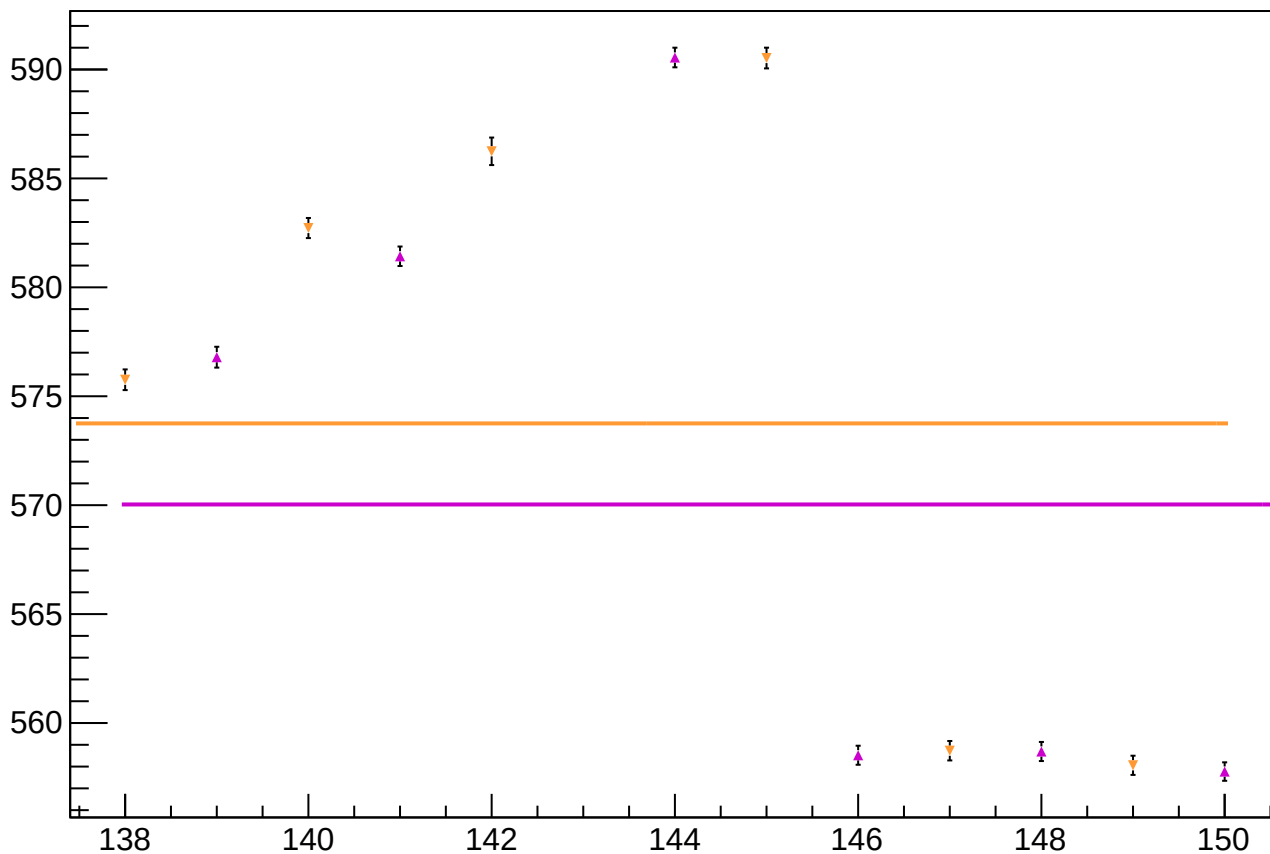
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 814.339+/-256.986  $\chi^2/\text{NDF}$ : 12.4/5

Out: 669.522+/-276.126  $\chi^2/\text{NDF}$ : 4.5/5

All: 747.123+/-188.119  $\chi^2/\text{NDF}$ : 17.1/11

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



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

Left Out: 573.753+/-0.195  $\chi^2/\text{NDF}$ :4432.3/5

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

Left In: 570.033+/-0.182  $\chi^2/\text{NDF}$ :5119.6/5

Left: 571.760+/-0.133  $\chi^2/\text{NDF}$ : 9746.5/11

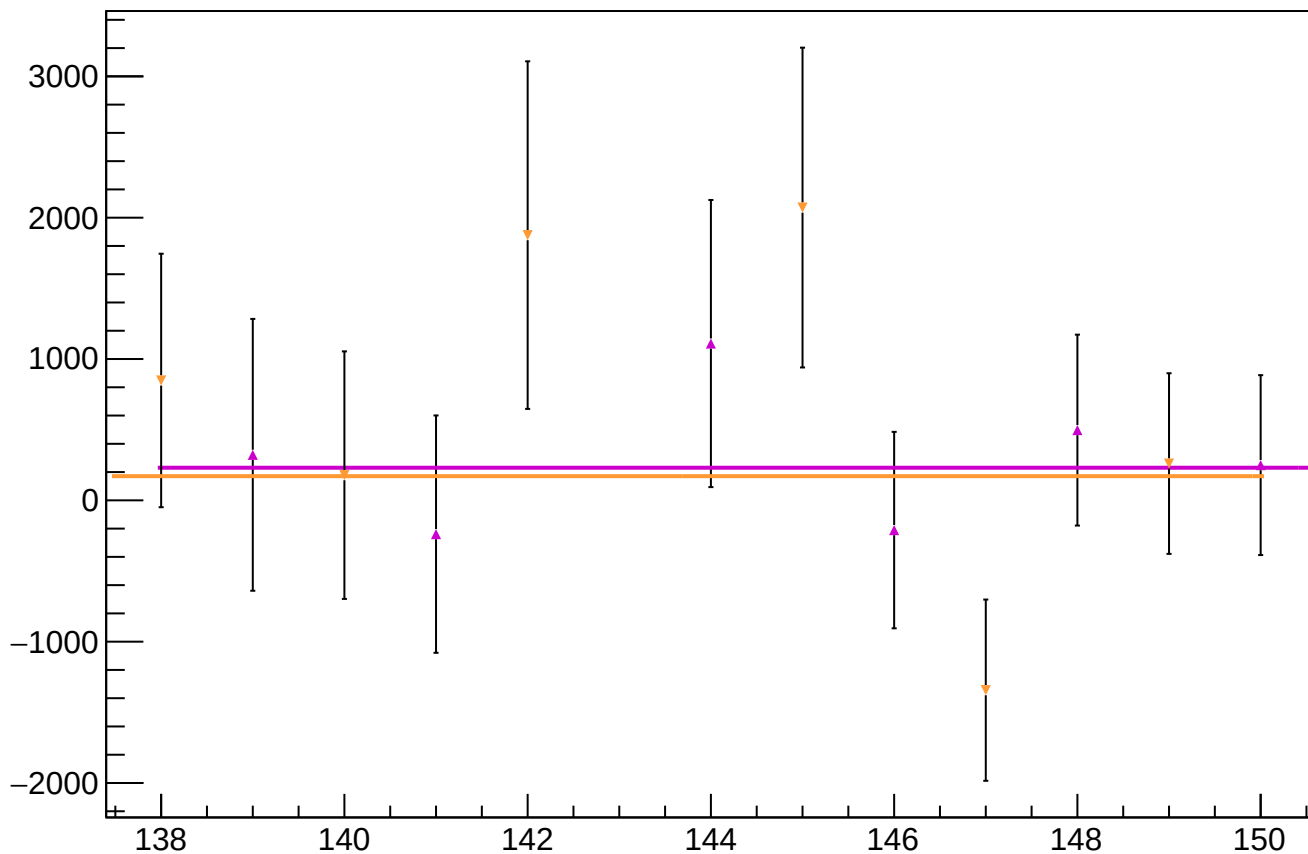
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 570.033+/-0.182  $\chi^2/\text{NDF}$ :5119.6/5

Out: 573.753+/-0.195  $\chi^2/\text{NDF}$ :4432.3/5

All: 571.760+/-0.133  $\chi^2/\text{NDF}$ : 9746.5/11

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



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

Left Out: 171.043+/-335.770  $\chi^2/\text{NDF}$ :10.9/5

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

Left In: 230.752+/-313.137  $\chi^2/\text{NDF}$ :1.6/5

Left: 202.978+/-229.005  $\chi^2/\text{NDF}$ : 12.6/11

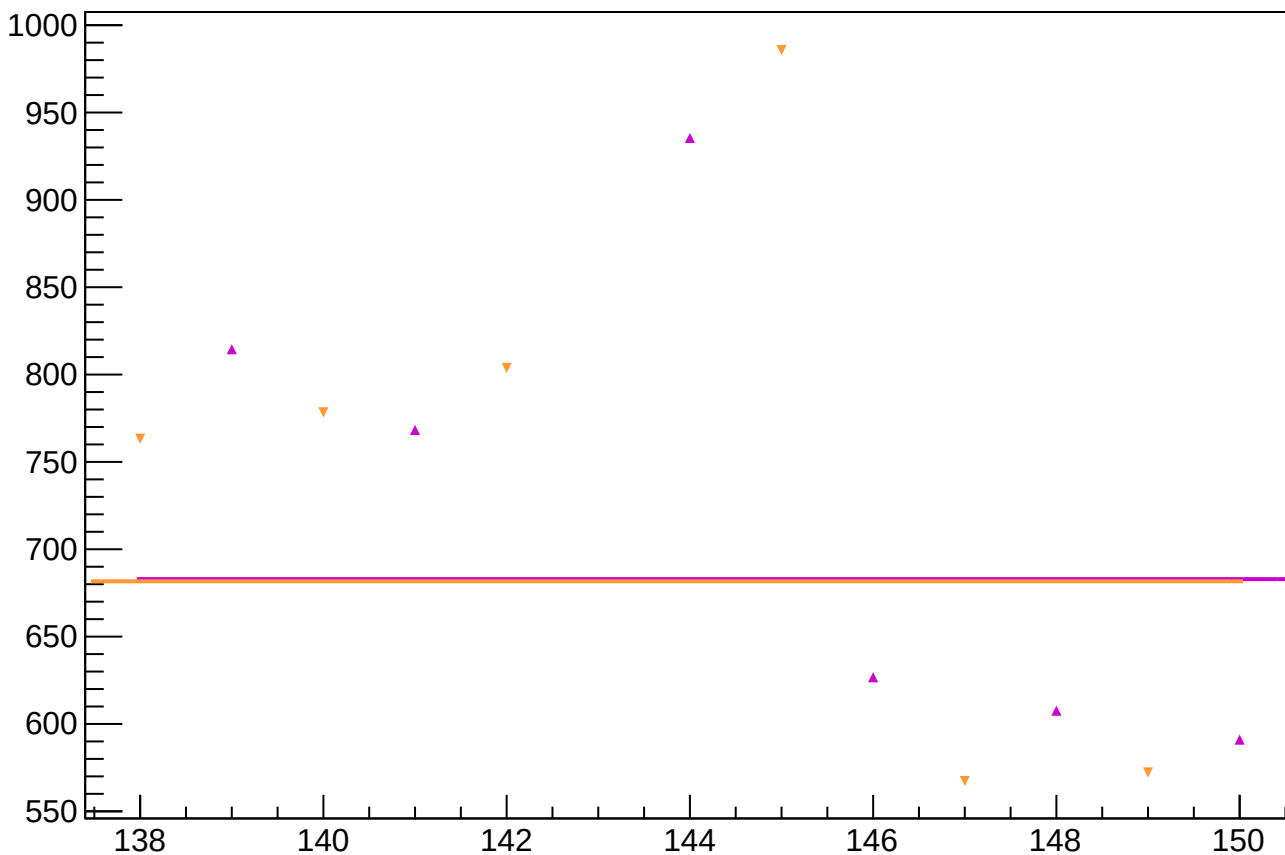
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 230.752+/-313.137  $\chi^2/\text{NDF}$ :1.6/5

Out: 171.043+/-335.770  $\chi^2/\text{NDF}$ :10.9/5

All: 202.978+/-229.005  $\chi^2/\text{NDF}$ : 12.6/11

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



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

Left Out: 681.674+/-0.237  $\chi^2/\text{NDF}$ :327343.7/5

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

Left In: 682.909+/-0.221  $\chi^2/\text{NDF}$ :261369.9/5

Left: 682.335+/-0.162  $\chi^2/\text{NDF}$ : 588728.1/11

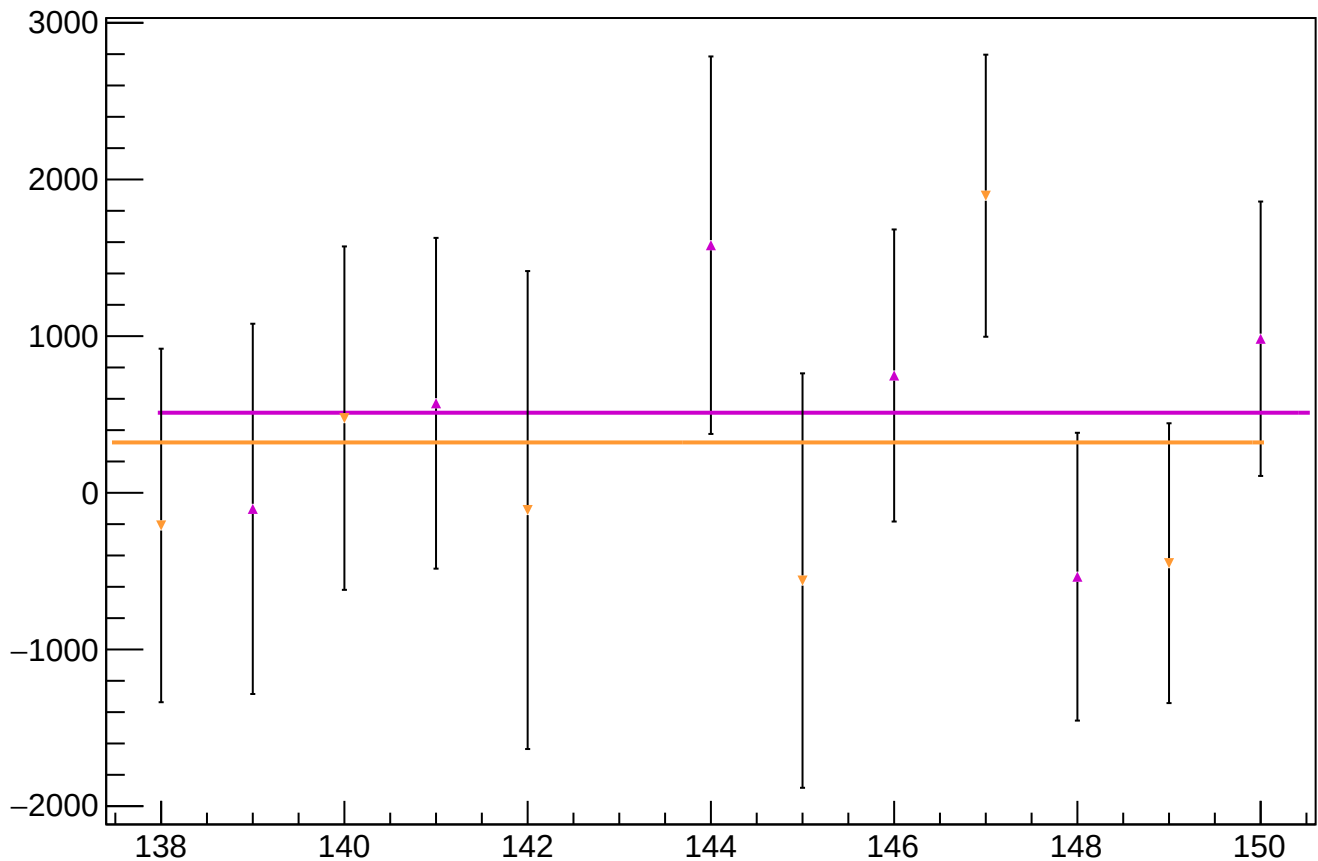
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 682.909+/-0.221  $\chi^2/\text{NDF}$ :261369.9/5

Out: 681.674+/-0.237  $\chi^2/\text{NDF}$ :327343.7/5

All: 682.335+/-0.162  $\chi^2/\text{NDF}$ : 588728.1/11

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



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

Left Out: 321.568+/-442.498  $\chi^2/\text{NDF}$ :4.6/5

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

Left In: 511.206+/-410.225  $\chi^2/\text{NDF}$ :2.7/5

Left: 423.554+/-300.836  $\chi^2/\text{NDF}$ : 7.4/11

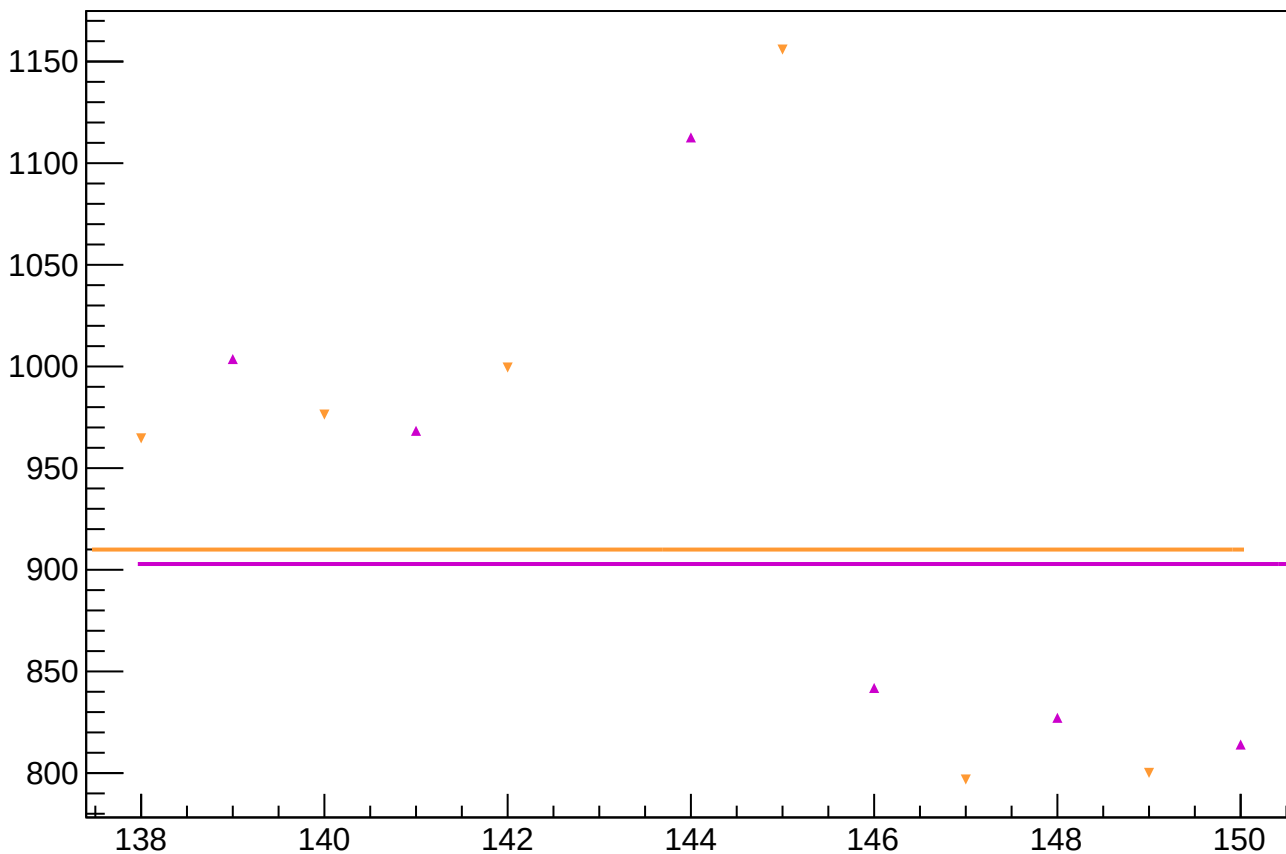
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 511.206+/-410.225  $\chi^2/\text{NDF}$ :2.7/5

Out: 321.568+/-442.498  $\chi^2/\text{NDF}$ :4.6/5

All: 423.554+/-300.836  $\chi^2/\text{NDF}$ : 7.4/11

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



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

Left Out: 909.949+/-0.313  $\chi^2/\text{NDF}$ :149895.4/5

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

Left In: 902.839+/-0.290  $\chi^2/\text{NDF}$ :125611.1/5

Left: 906.125+/-0.213  $\chi^2/\text{NDF}$ : 275784.1/11

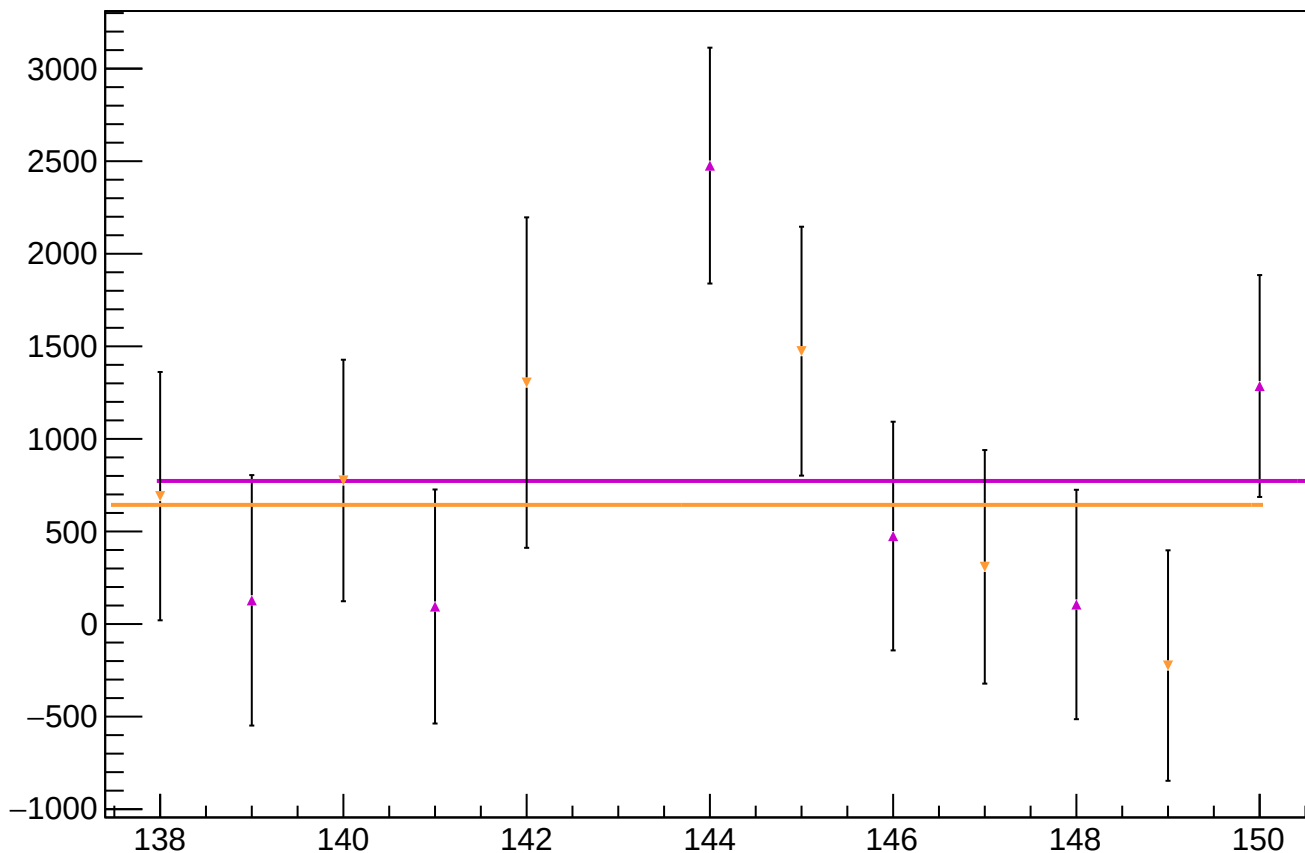
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 902.839+/-0.290  $\chi^2/\text{NDF}$ :125611.1/5

Out: 909.949+/-0.313  $\chi^2/\text{NDF}$ :149895.4/5

All: 906.125+/-0.213  $\chi^2/\text{NDF}$ : 275784.1/11

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



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

Left Out: 643.629+/-275.909  $\chi^2/\text{NDF}$ : 4.3/5

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

Left In: 772.860+/-256.785  $\chi^2/\text{NDF}$ : 11.3/5

Left: 712.878+/-187.972  $\chi^2/\text{NDF}$ : 15.8/11

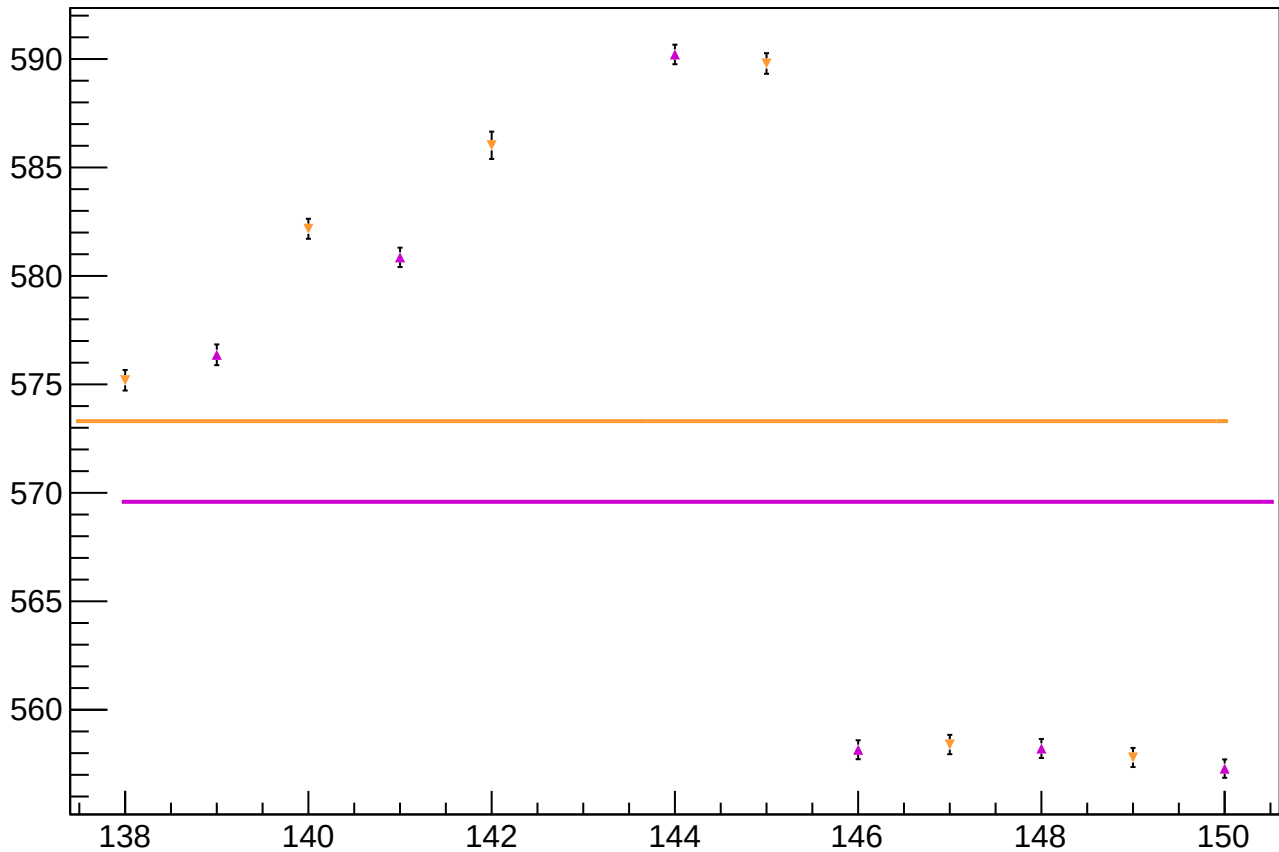
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 772.860+/-256.785  $\chi^2/\text{NDF}$ : 11.3/5

Out: 643.629+/-275.909  $\chi^2/\text{NDF}$ : 4.3/5

All: 712.878+/-187.972  $\chi^2/\text{NDF}$ : 15.8/11

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



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

Left Out: 573.306+/-0.195  $\chi^2/\text{NDF}$ :4352.7/5

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

Left In: 569.587+/-0.182  $\chi^2/\text{NDF}$ :5134.8/5

Left: 571.313+/-0.133  $\chi^2/\text{NDF}$ : 9682.2/11

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

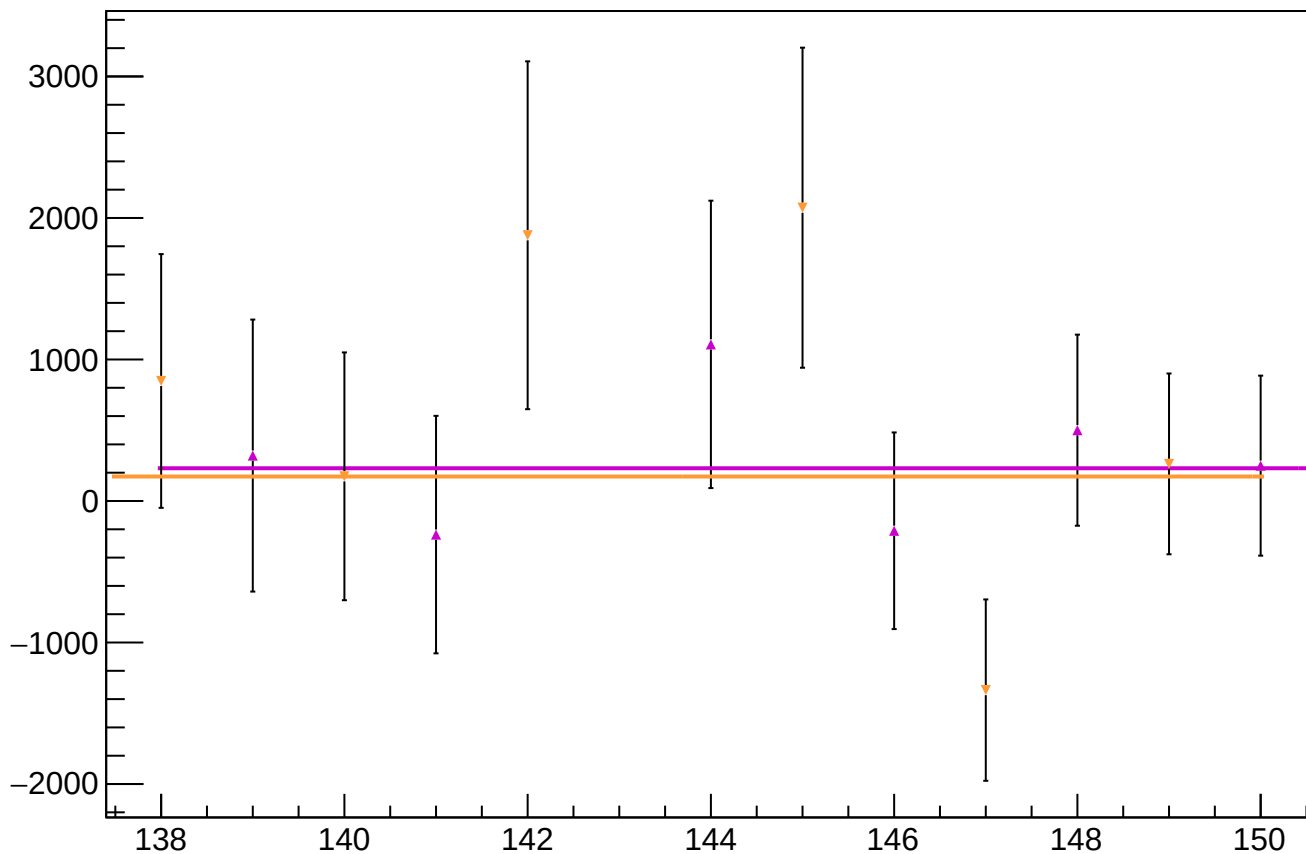
In: 569.587+/-0.182  $\chi^2/\text{NDF}$ :5134.8/5

Out: 573.306+/-0.195  $\chi^2/\text{NDF}$ :4352.7/5

All: 571.313+/-0.133  $\chi^2/\text{NDF}$ : 9682.2/11



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



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

Left Out: 172.944+/-335.608  $\chi^2/\text{NDF}$ :10.9/5

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

Left In: 231.427+/-312.966  $\chi^2/\text{NDF}$ :1.6/5

Left: 204.225+/-228.887  $\chi^2/\text{NDF}$ : 12.5/11

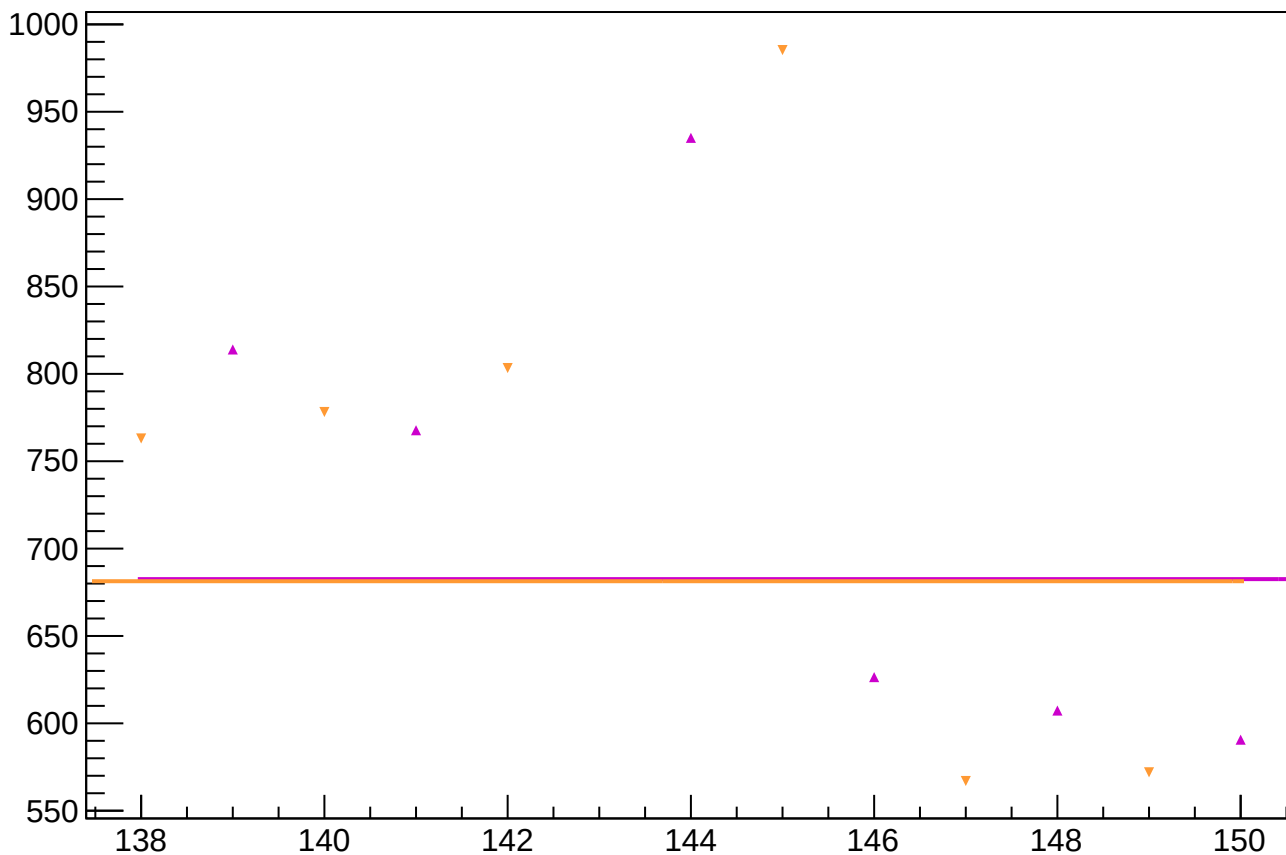
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 231.427+/-312.966  $\chi^2/\text{NDF}$ :1.6/5

Out: 172.944+/-335.608  $\chi^2/\text{NDF}$ :10.9/5

All: 204.225+/-228.887  $\chi^2/\text{NDF}$ : 12.5/11

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



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

Left Out: 681.337+/-0.237  $\chi^2/\text{NDF}$ :327568.5/5

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

Left In: 682.536+/-0.221  $\chi^2/\text{NDF}$ :261319.7/5

Left: 681.978+/-0.162  $\chi^2/\text{NDF}$ : 588901.9/11

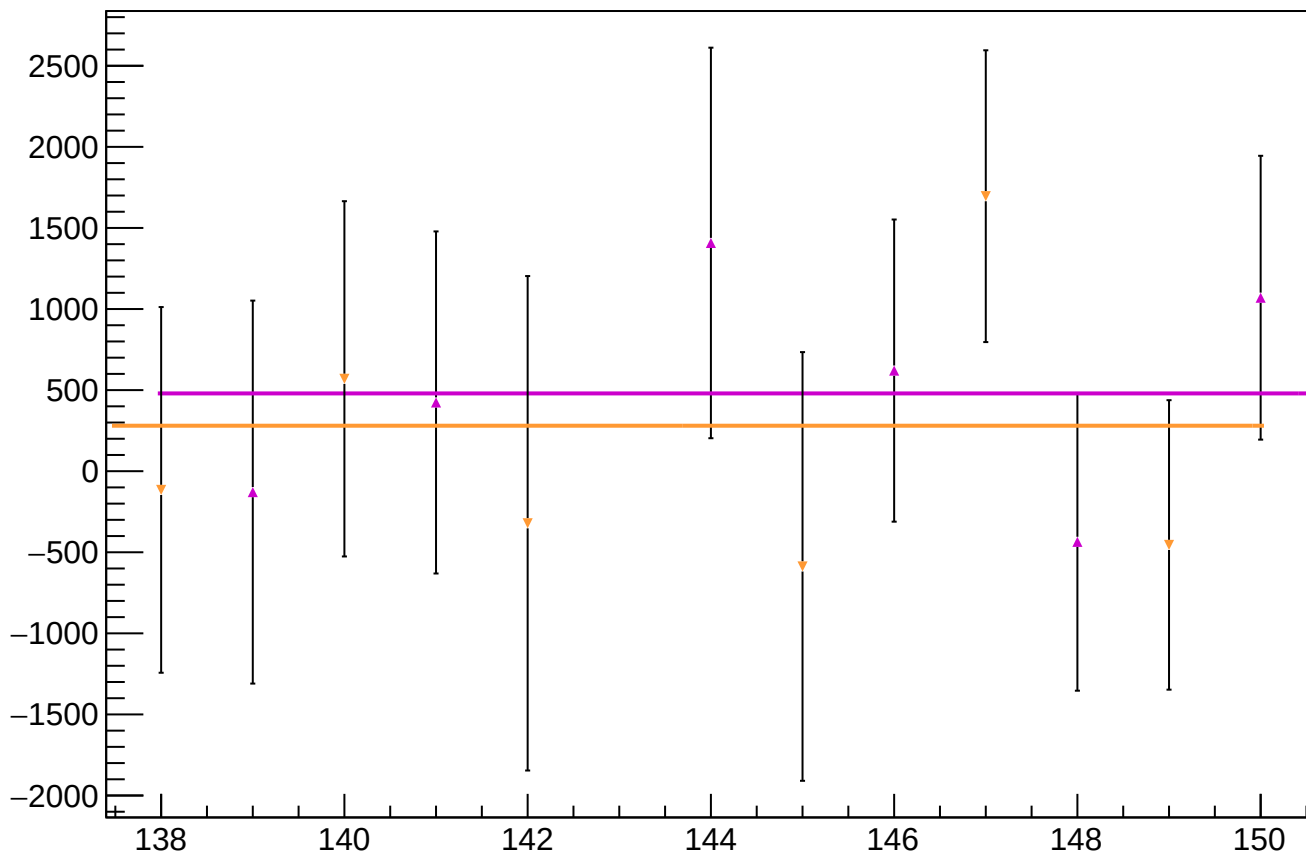
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 682.536+/-0.221  $\chi^2/\text{NDF}$ :261319.7/5

Out: 681.337+/-0.237  $\chi^2/\text{NDF}$ :327568.5/5

All: 681.978+/-0.162  $\chi^2/\text{NDF}$ : 588901.9/11

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



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

Left Out: 280.431+/-442.251  $\chi^2/\text{NDF}$ :3.9/5

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

Left In: 479.609+/-409.961  $\chi^2/\text{NDF}$ :2.3/5

Left: 387.556+/-300.654  $\chi^2/\text{NDF}$ : 6.4/11

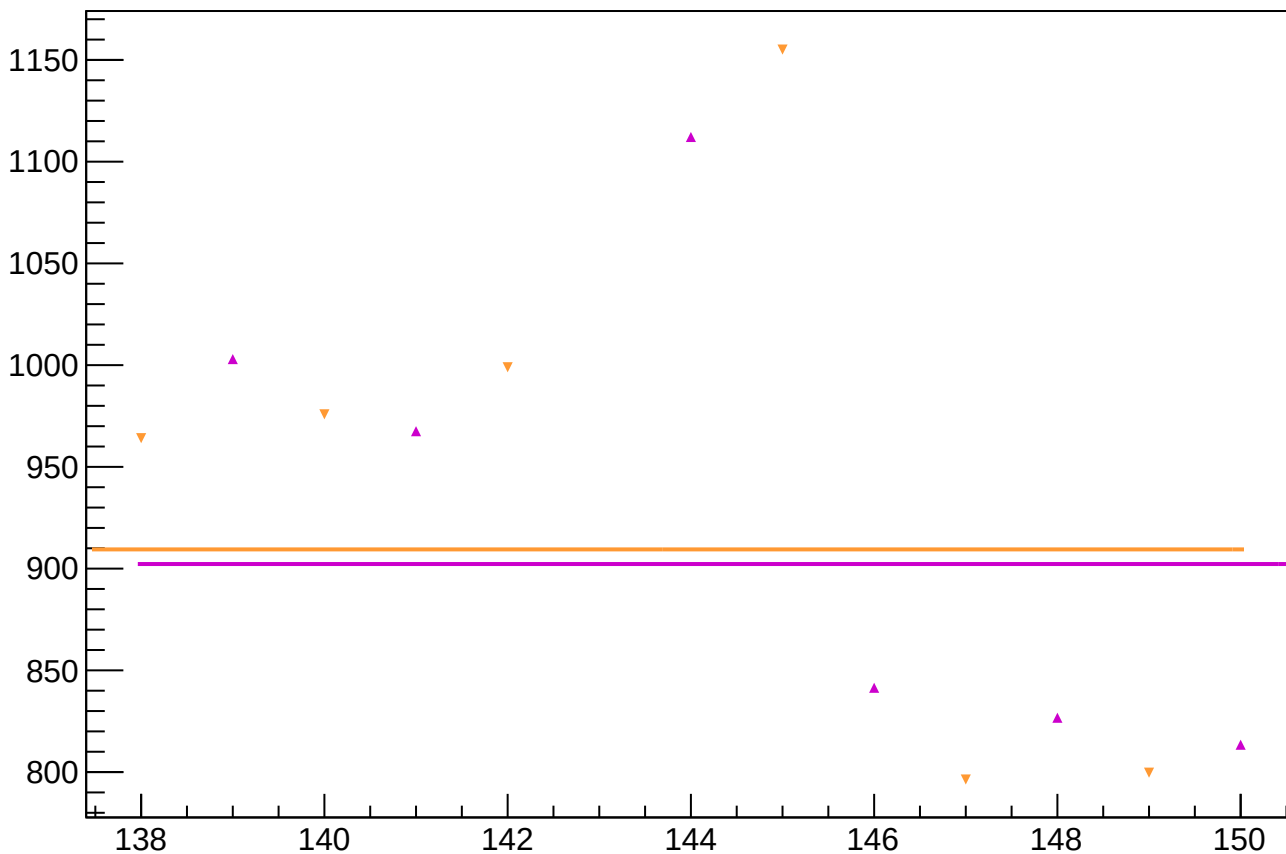
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 479.609+/-409.961  $\chi^2/\text{NDF}$ :2.3/5

Out: 280.431+/-442.251  $\chi^2/\text{NDF}$ :3.9/5

All: 387.556+/-300.654  $\chi^2/\text{NDF}$ : 6.4/11

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



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

Left Out: 909.444+/-0.313  $\chi^2/\text{NDF}$ :149836.2/5

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

Left In: 902.255+/-0.290  $\chi^2/\text{NDF}$ :125620.2/5

Left: 905.577+/-0.213  $\chi^2/\text{NDF}$ : 275740.6/11

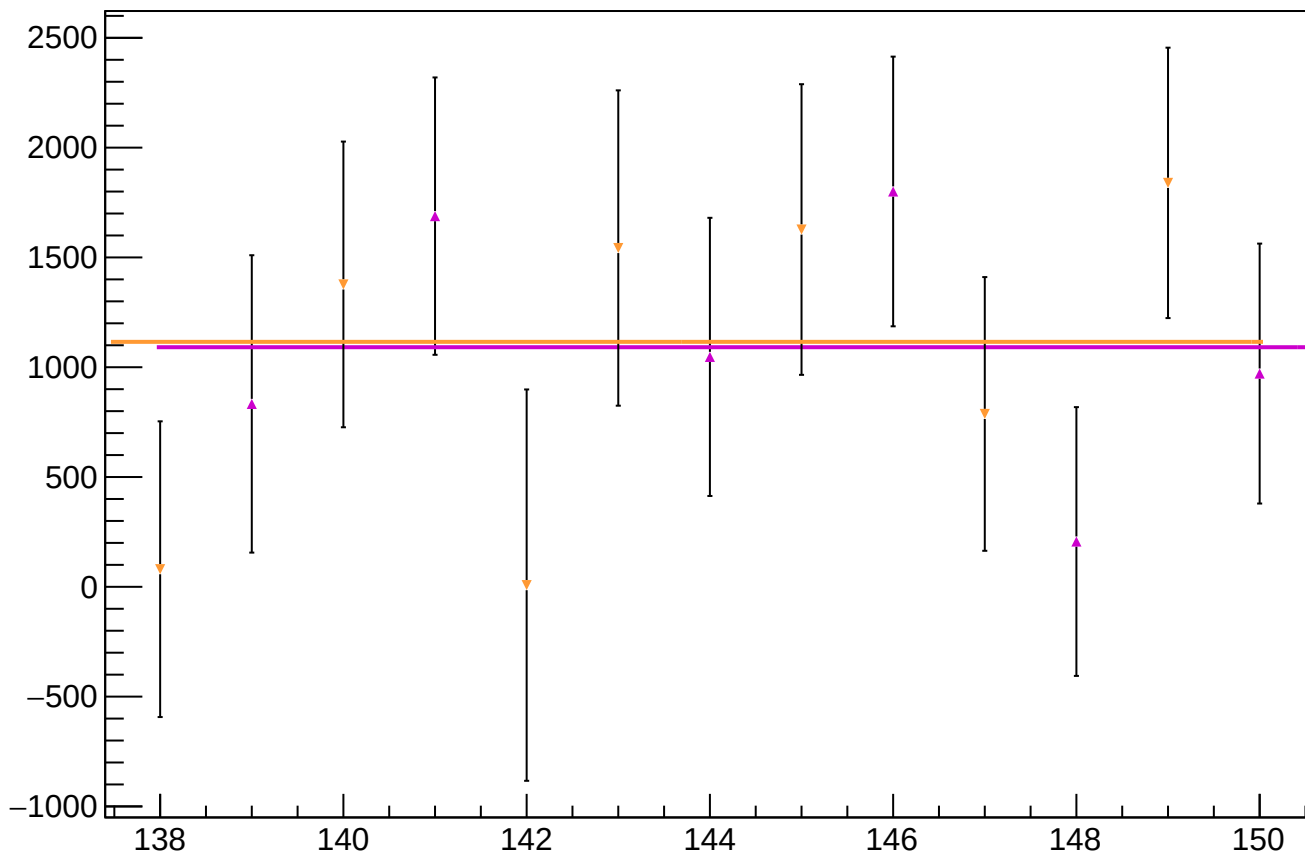
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 902.255+/-0.290  $\chi^2/\text{NDF}$ :125620.2/5

Out: 909.444+/-0.313  $\chi^2/\text{NDF}$ :149836.2/5

All: 905.577+/-0.213  $\chi^2/\text{NDF}$ : 275740.6/11

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



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

Left Out: 1115.590+/-255.960  $\chi^2/\text{NDF}$ :6.7/6

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

Left In: 1091.116+/-255.172  $\chi^2/\text{NDF}$ :4.5/5

Left: 1103.315+/-180.712  $\chi^2/\text{NDF}$ : 11.2/12

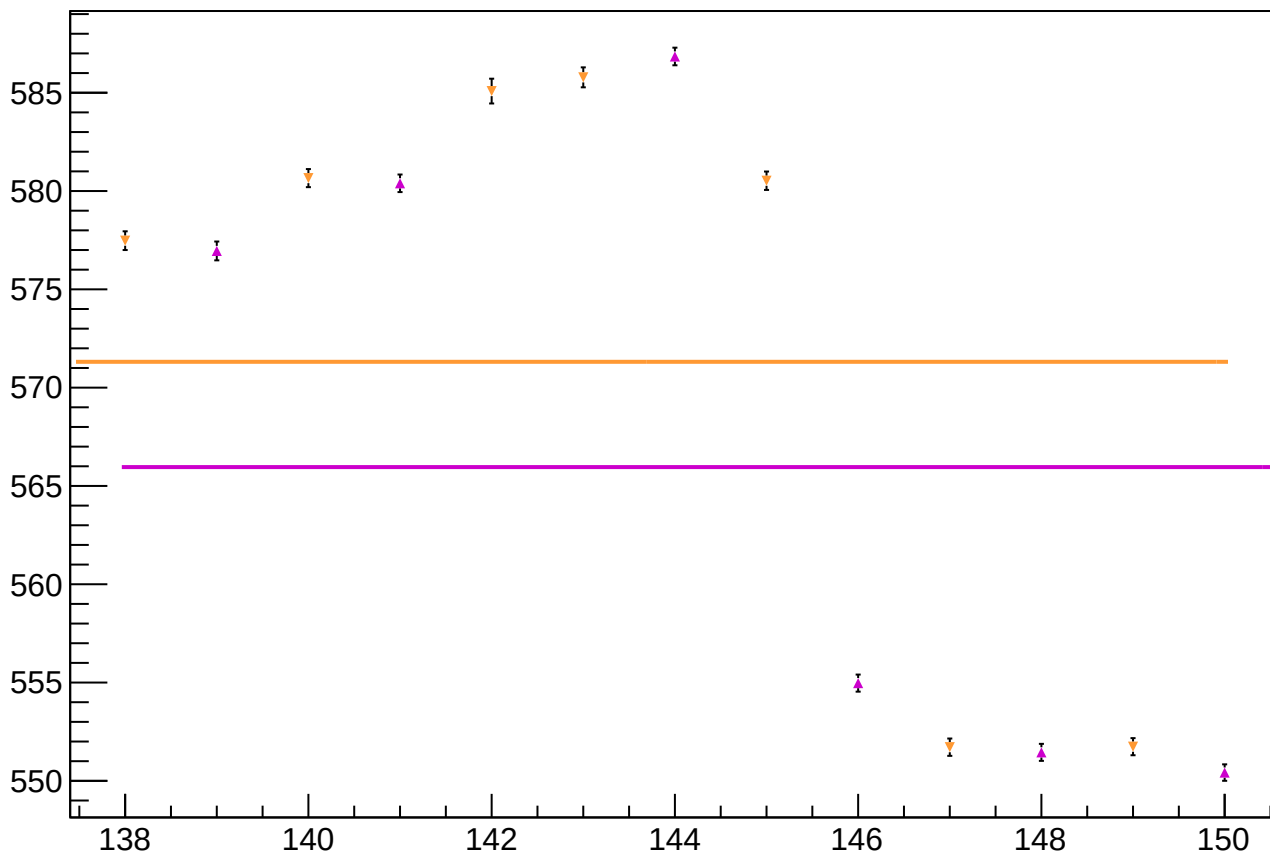
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1091.116+/-255.172  $\chi^2/\text{NDF}$ :4.5/5

Out: 1115.590+/-255.960  $\chi^2/\text{NDF}$ :6.7/6

All: 1103.315+/-180.712  $\chi^2/\text{NDF}$ : 11.2/12

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



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

Left Out: 571.314+/-0.181  $\chi^2/\text{NDF}$ : 6257.4/6

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

Left In: 565.959+/-0.180  $\chi^2/\text{NDF}$ : 6889.8/5

Left: 568.629+/-0.128  $\chi^2/\text{NDF}$ : 13586.2/12

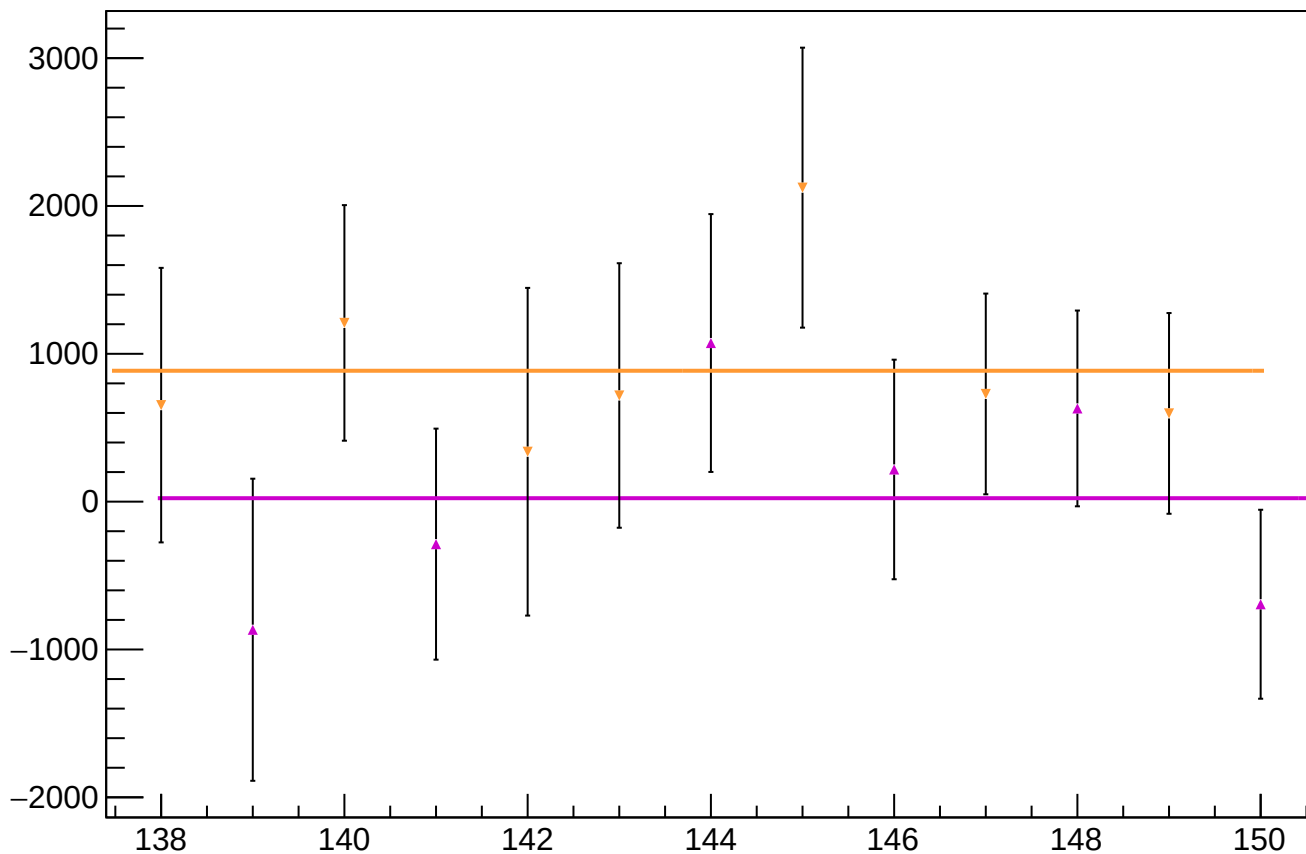
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 565.959+/-0.180  $\chi^2/\text{NDF}$ : 6889.8/5

Out: 571.314+/-0.181  $\chi^2/\text{NDF}$ : 6257.4/6

All: 568.629+/-0.128  $\chi^2/\text{NDF}$ : 13586.2/12

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



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

Left Out: 885.391+/-312.293  $\chi^2/\text{NDF}$ : 2.5/6

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

Left In: 23.327+/-309.292  $\chi^2/\text{NDF}$ : 4.5/5

Left: 450.197+/-219.756  $\chi^2/\text{NDF}$ : 10.8/12

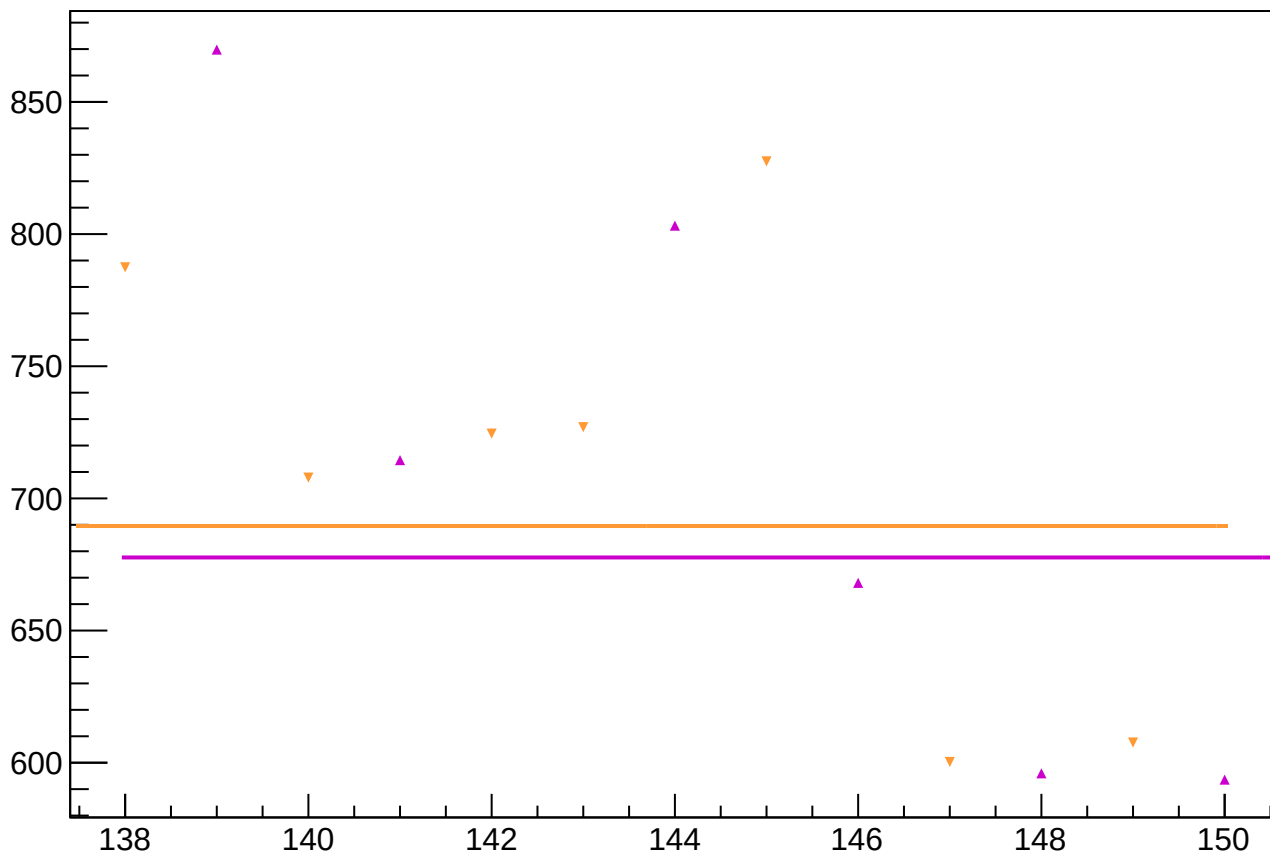
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 23.327+/-309.292  $\chi^2/\text{NDF}$ : 4.5/5

Out: 885.391+/-312.293  $\chi^2/\text{NDF}$ : 2.5/6

All: 450.197+/-219.756  $\chi^2/\text{NDF}$ : 10.8/12

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



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

Left Out: 689.555+/-0.221  $\chi^2/\text{NDF}$ :134927.3/6

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

Left In: 677.657+/-0.219  $\chi^2/\text{NDF}$ :181981.4/5

Left: 683.548+/-0.155  $\chi^2/\text{NDF}$ : 318374.4/12

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

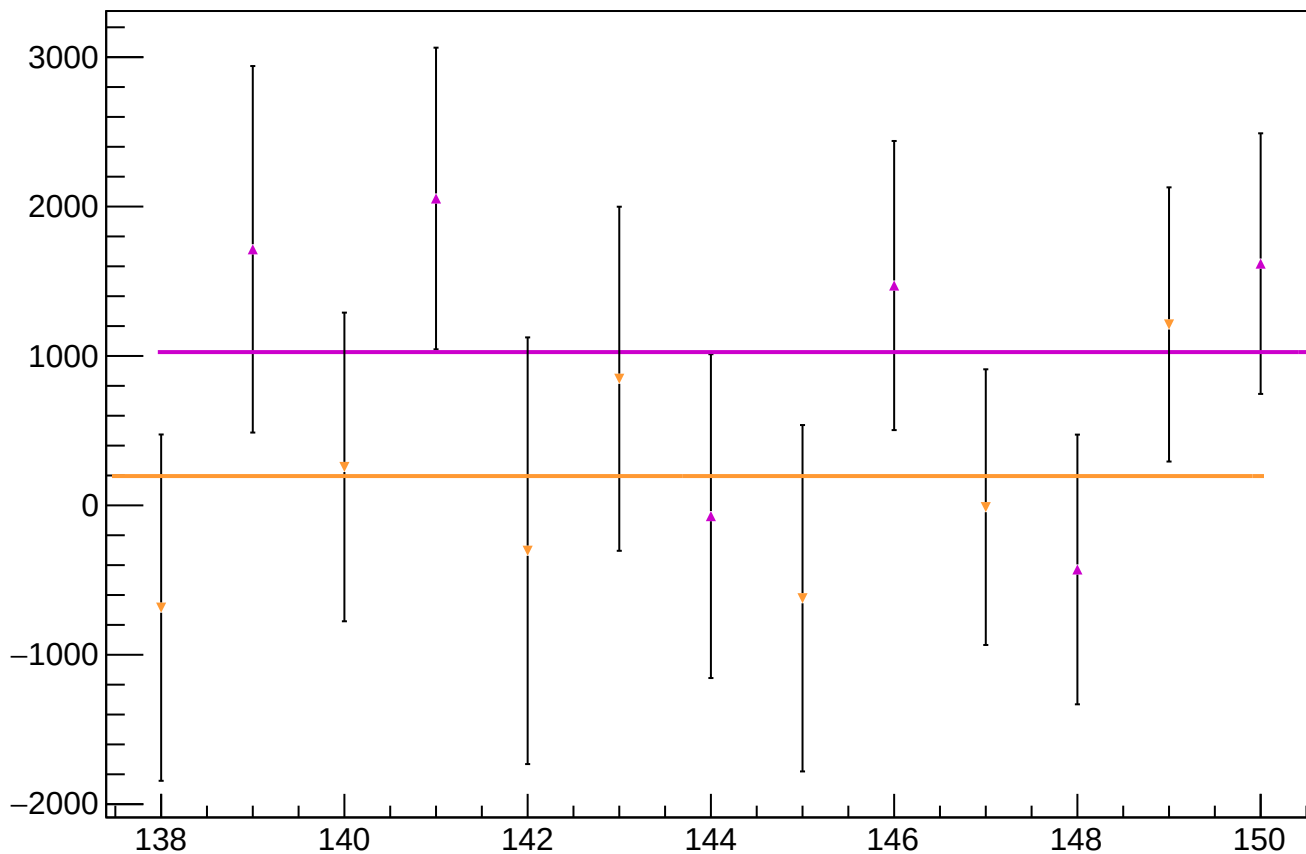
In: 677.657+/-0.219  $\chi^2/\text{NDF}$ :181981.4/5

Out: 689.555+/-0.221  $\chi^2/\text{NDF}$ :134927.3/6

All: 683.548+/-0.155  $\chi^2/\text{NDF}$ : 318374.4/12



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



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

Left Out: 196.144+/-407.137  $\chi^2/\text{NDF}$ : 2.8/6

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

Left In: 1025.921+/-404.634  $\chi^2/\text{NDF}$ : 5.6/5

Left: 613.591+/-287.000  $\chi^2/\text{NDF}$ : 10.5/12

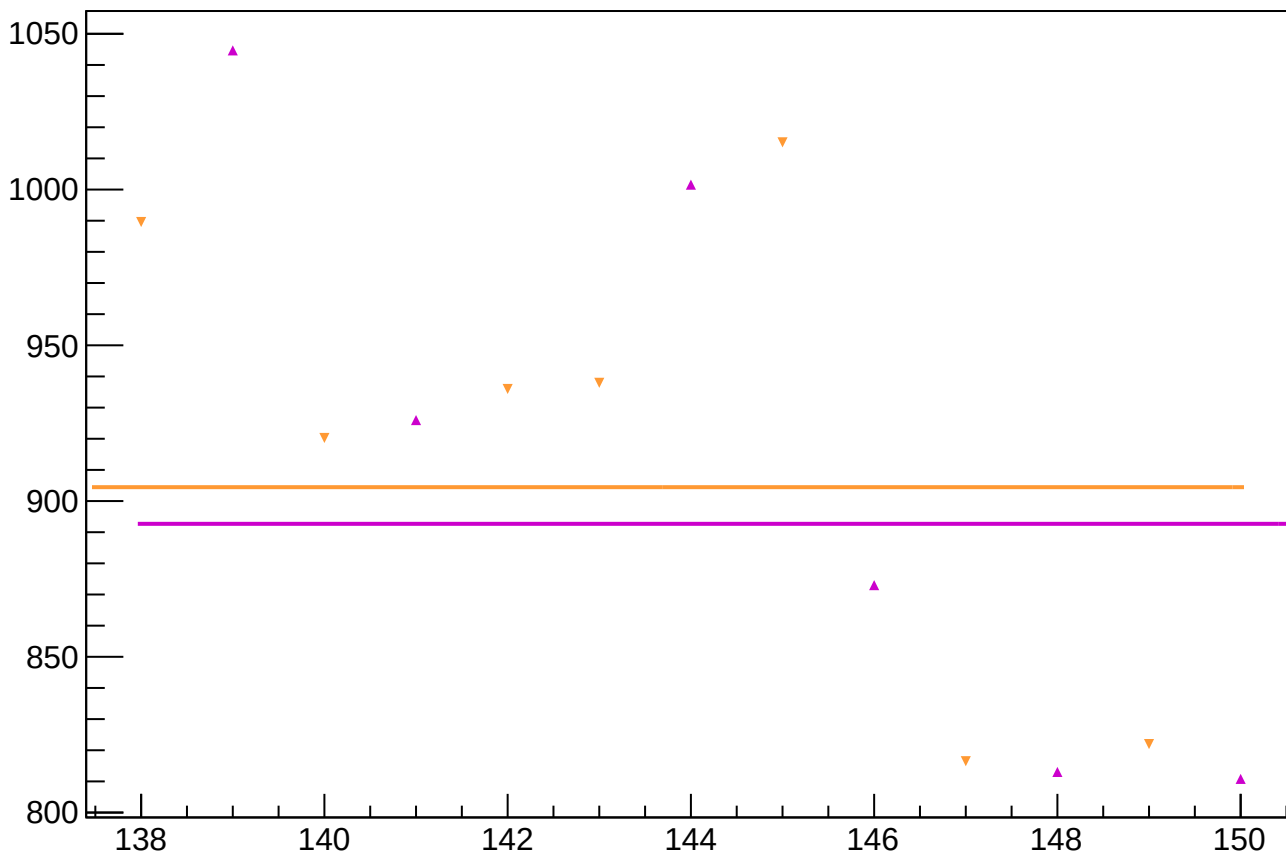
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1025.921+/-404.634  $\chi^2/\text{NDF}$ : 5.6/5

Out: 196.144+/-407.137  $\chi^2/\text{NDF}$ : 2.8/6

All: 613.591+/-287.000  $\chi^2/\text{NDF}$ : 10.5/12

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



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

Left Out: 904.455+/-0.288  $\chi^2/\text{NDF}$ : 66505.5/6

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

Left In: 892.689+/-0.286  $\chi^2/\text{NDF}$ : 87103.1/5

Left: 898.536+/-0.203  $\chi^2/\text{NDF}$ : 154449.0/12

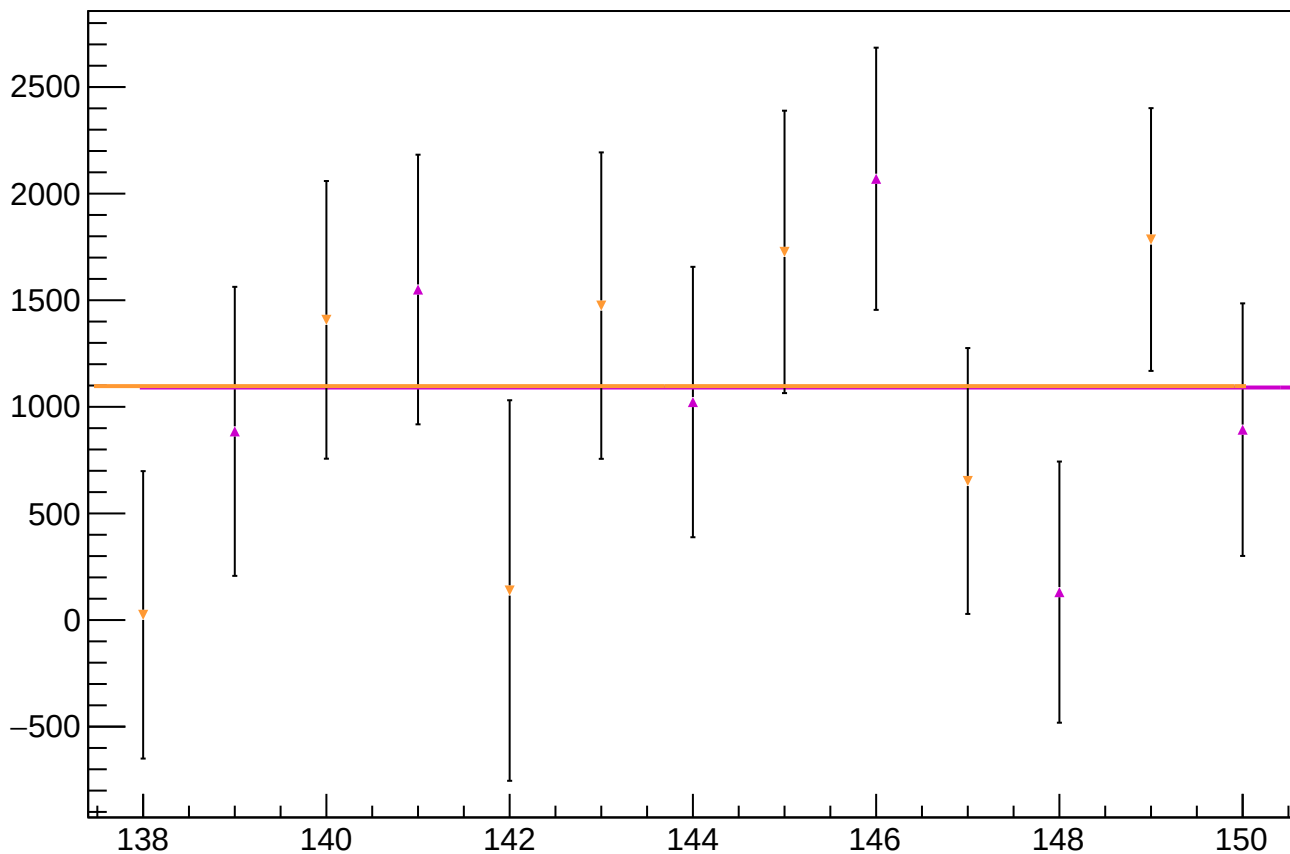
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 892.689+/-0.286  $\chi^2/\text{NDF}$ : 87103.1/5

Out: 904.455+/-0.288  $\chi^2/\text{NDF}$ : 66505.5/6

All: 898.536+/-0.203  $\chi^2/\text{NDF}$ : 154449.0/12

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



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

Left Out: 1097.232+/-256.201  $\chi^2/\text{NDF}$ :6.8/6

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

Left In: 1090.673+/-255.452  $\chi^2/\text{NDF}$ :5.7/5

Left: 1093.942+/-180.896  $\chi^2/\text{NDF}$ : 12.6/12

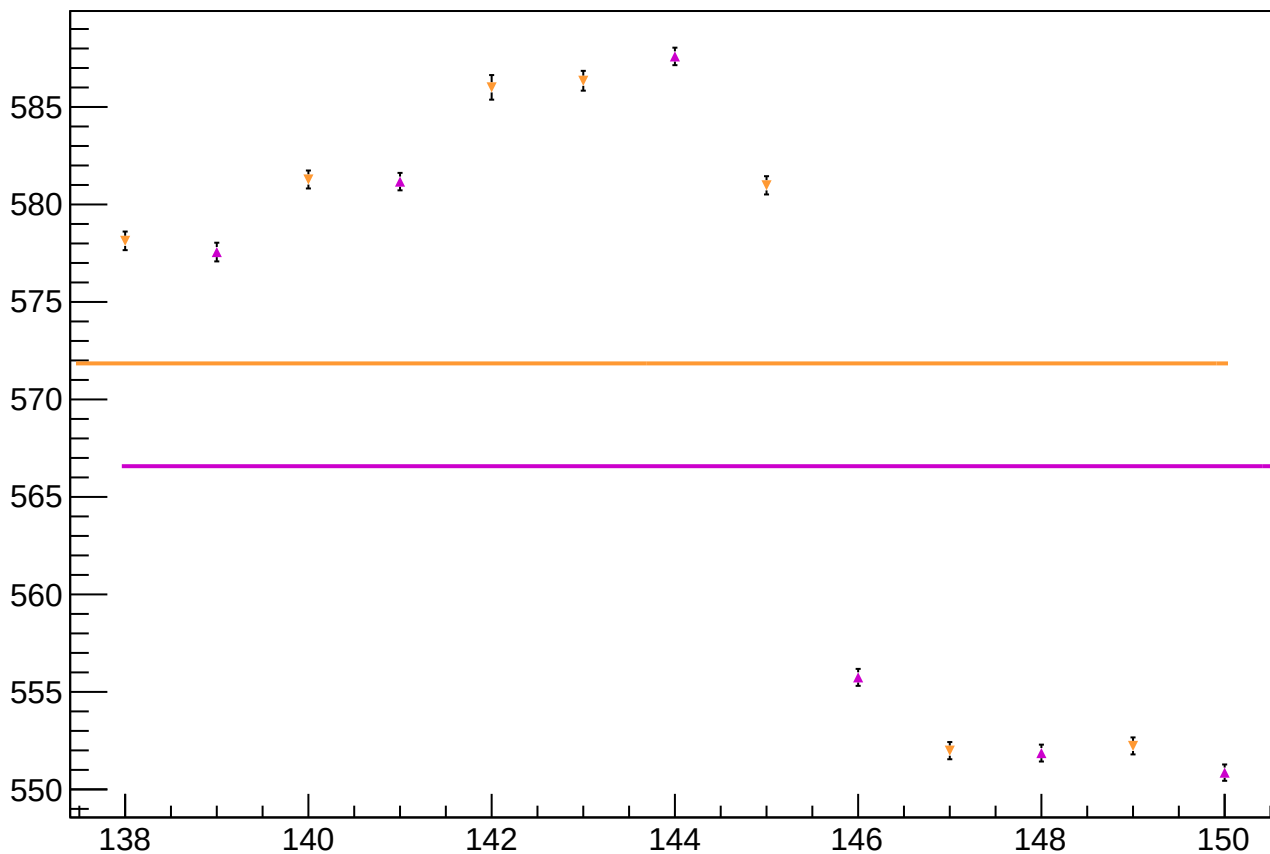
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1090.673+/-255.452  $\chi^2/\text{NDF}$ :5.7/5

Out: 1097.232+/-256.201  $\chi^2/\text{NDF}$ :6.8/6

All: 1093.942+/-180.896  $\chi^2/\text{NDF}$ : 12.6/12

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



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

Left Out: 571.848+/-0.181  $\chi^2/\text{NDF}$ :6347.0/6

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

Left In: 566.577+/-0.181  $\chi^2/\text{NDF}$ :6970.3/5

Left: 569.205+/-0.128  $\chi^2/\text{NDF}$ : 13741.9/12

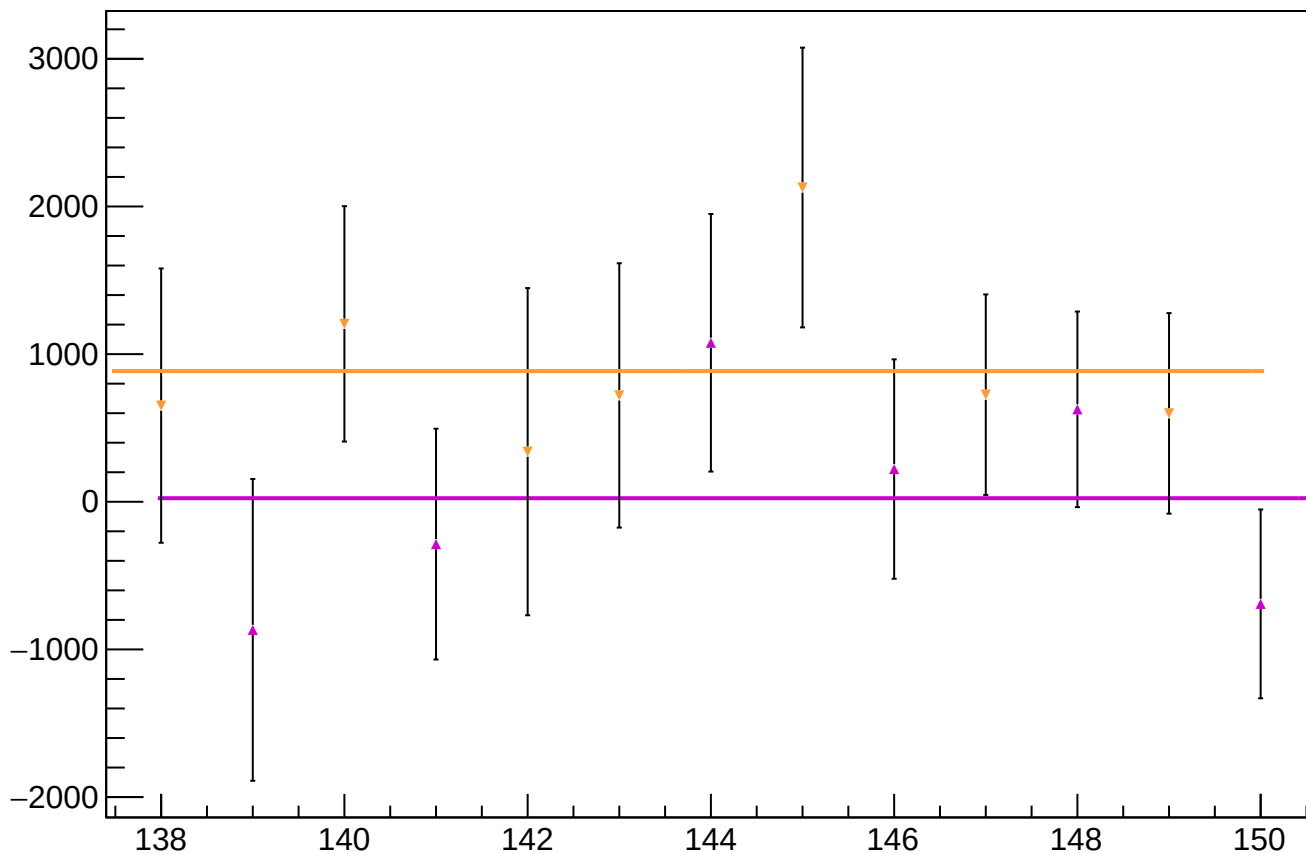
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 566.577+/-0.181  $\chi^2/\text{NDF}$ :6970.3/5

Out: 571.848+/-0.181  $\chi^2/\text{NDF}$ :6347.0/6

All: 569.205+/-0.128  $\chi^2/\text{NDF}$ : 13741.9/12

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



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

Left Out: 885.157+/-312.392  $\chi^2/\text{NDF}$ : 2.5/6

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

Left In: 24.142+/-309.426  $\chi^2/\text{NDF}$ : 4.5/5

Left: 450.542+/-219.838  $\chi^2/\text{NDF}$ : 10.8/12

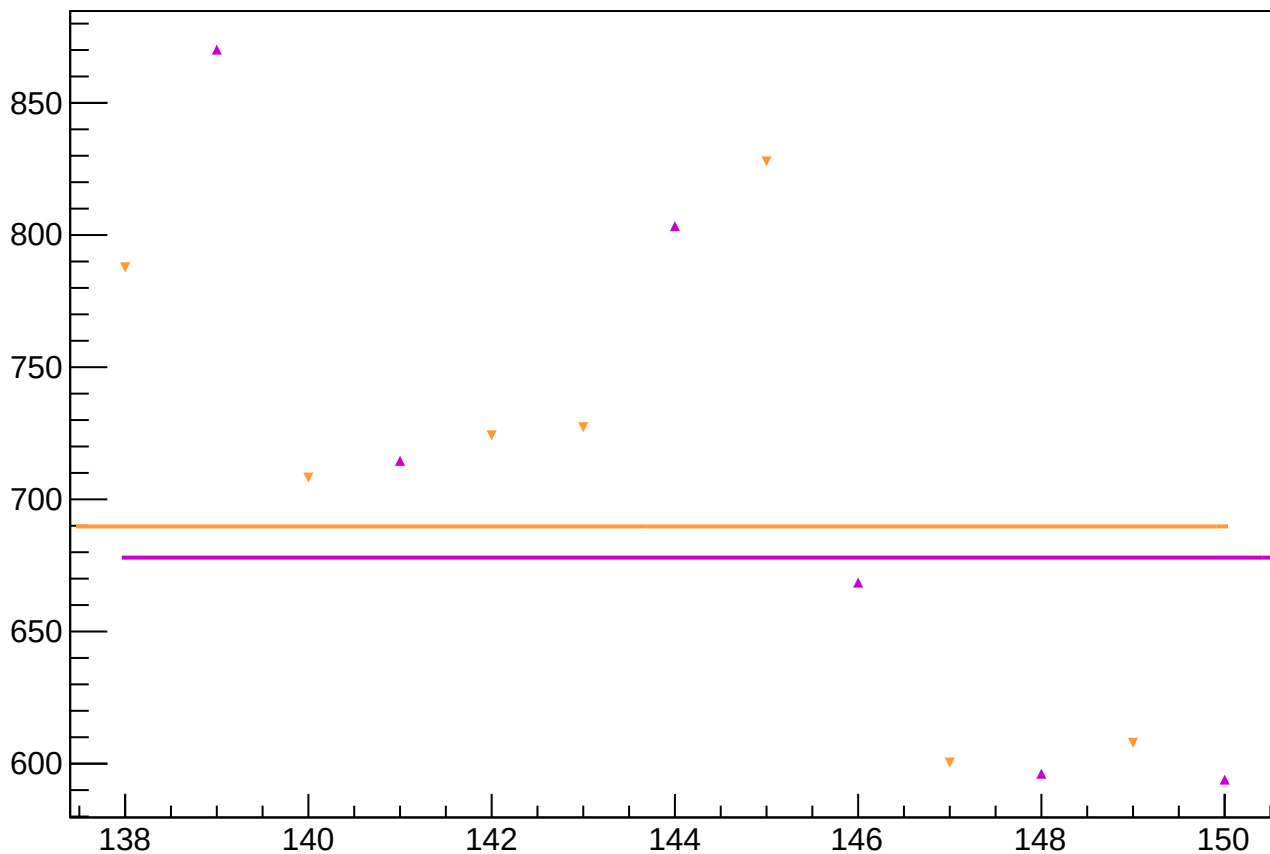
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 24.142+/-309.426  $\chi^2/\text{NDF}$ : 4.5/5

Out: 885.157+/-312.392  $\chi^2/\text{NDF}$ : 2.5/6

All: 450.542+/-219.838  $\chi^2/\text{NDF}$ : 10.8/12

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



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

Left Out: 689.764+/-0.221  $\chi^2/\text{NDF}$ :134998.2/6

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

Left In: 677.959+/-0.219  $\chi^2/\text{NDF}$ :181747.7/5

Left: 683.805+/-0.155  $\chi^2/\text{NDF}$ : 318187.6/12

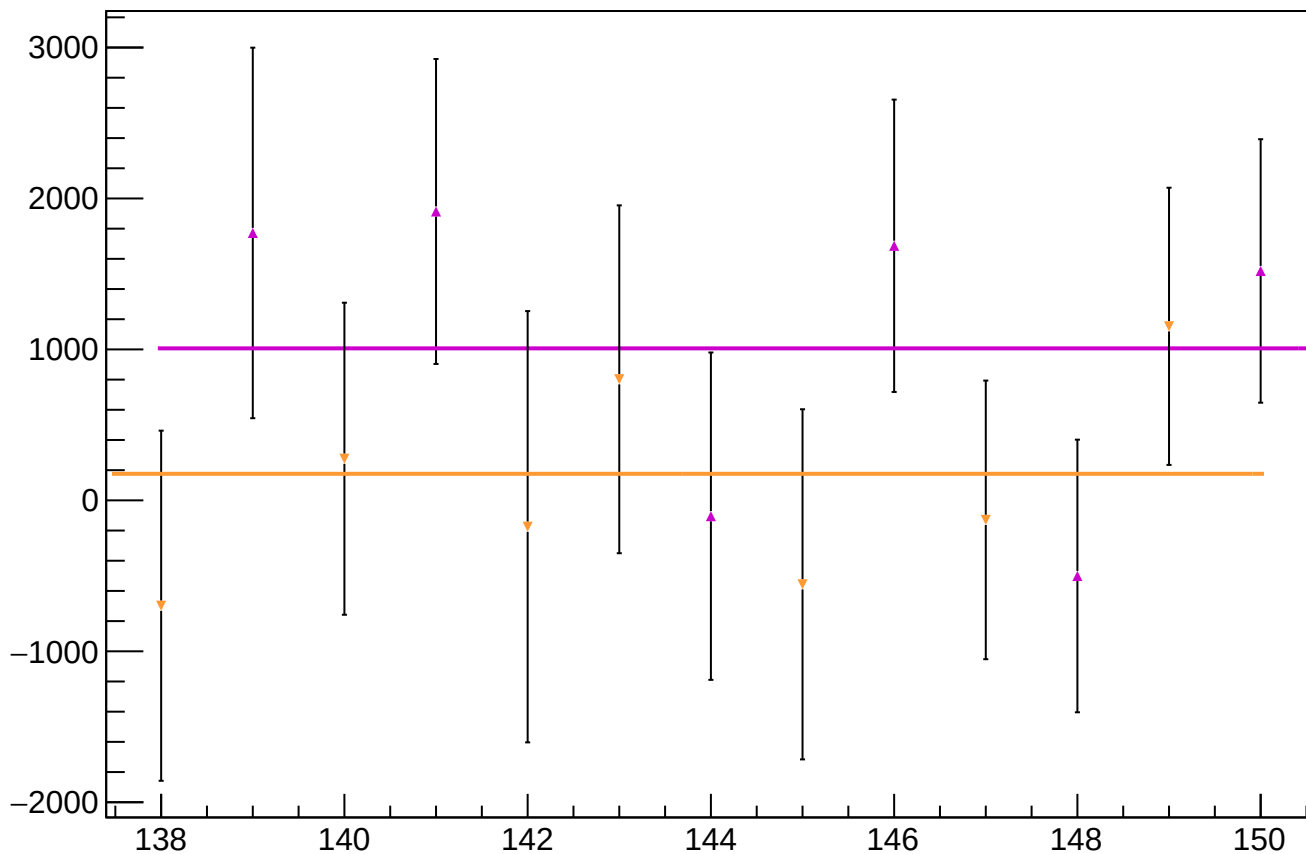
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 677.959+/-0.219  $\chi^2/\text{NDF}$ :181747.7/5

Out: 689.764+/-0.221  $\chi^2/\text{NDF}$ :134998.2/6

All: 683.805+/-0.155  $\chi^2/\text{NDF}$ : 318187.6/12

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



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

Left Out: 175.852+/-407.370  $\chi^2/\text{NDF}$ : 2.6/6

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

Left In: 1006.922+/-404.909  $\chi^2/\text{NDF}$ : 5.9/5

Left: 593.905+/-287.180  $\chi^2/\text{NDF}$ : 10.5/12

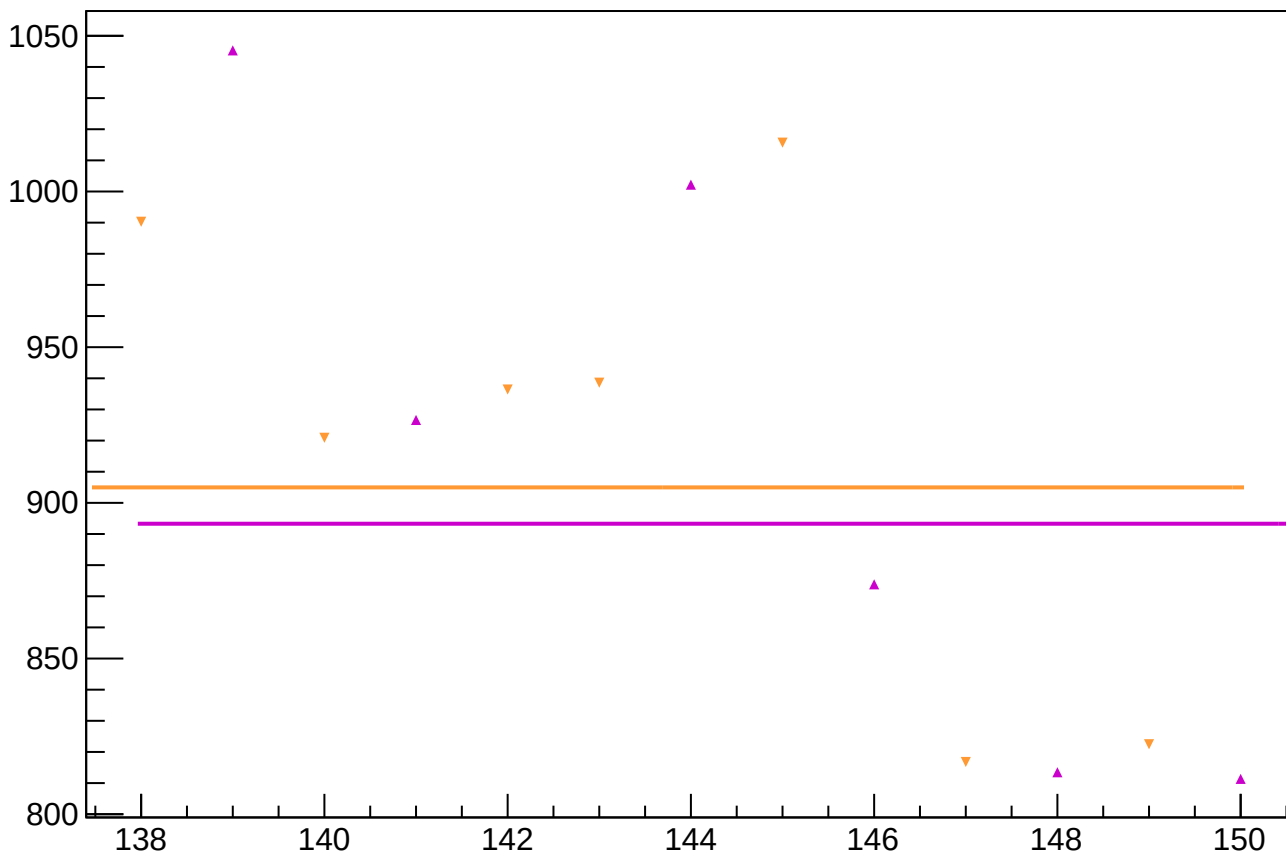
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1006.922+/-404.909  $\chi^2/\text{NDF}$ : 5.9/5

Out: 175.852+/-407.370  $\chi^2/\text{NDF}$ : 2.6/6

All: 593.905+/-287.180  $\chi^2/\text{NDF}$ : 10.5/12

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



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

Left Out: 904.966+/-0.288  $\chi^2/\text{NDF}$ : 66603.5/6

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

Left In: 893.297+/-0.286  $\chi^2/\text{NDF}$ : 87094.7/5

Left: 899.096+/-0.203  $\chi^2/\text{NDF}$ : 154523.8/12

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

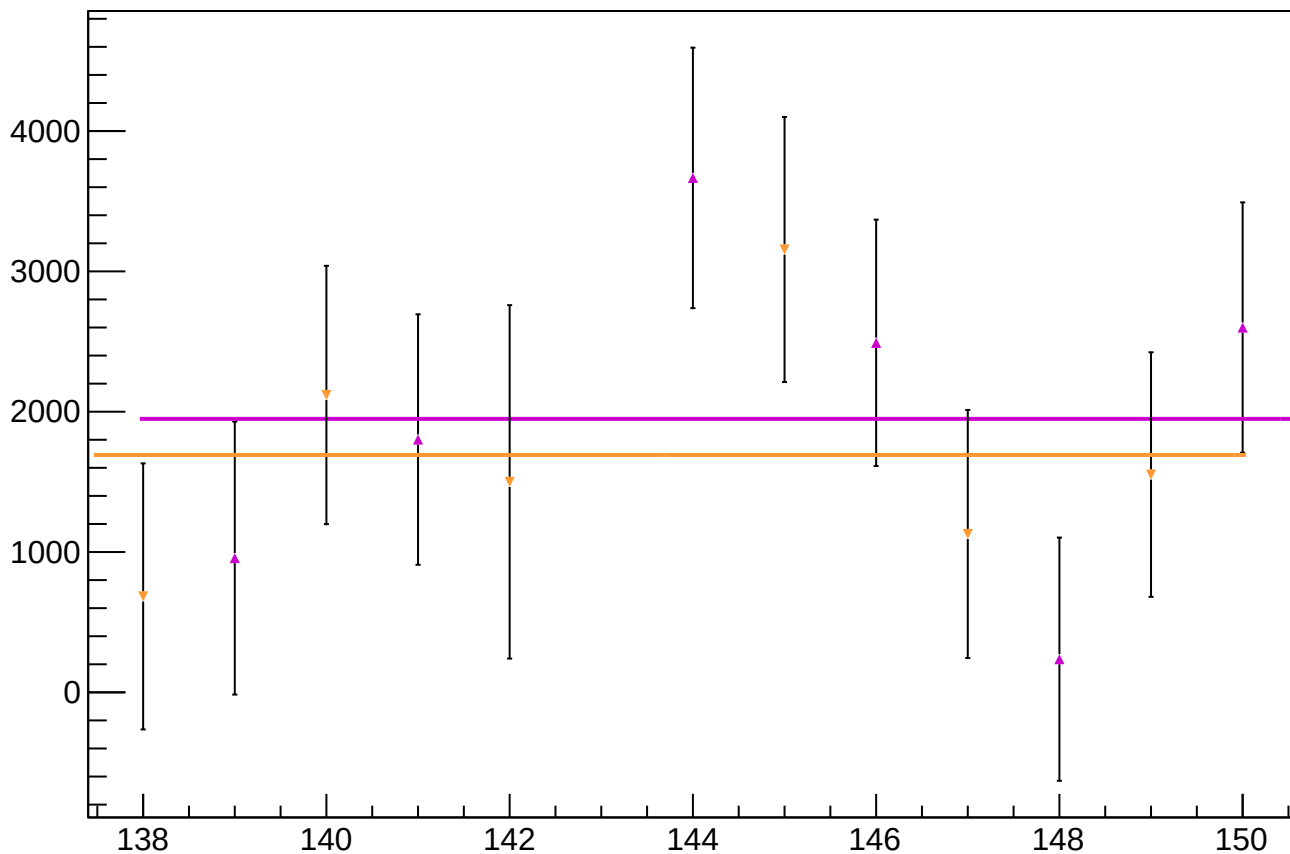
In: 893.297+/-0.286  $\chi^2/\text{NDF}$ : 87094.7/5

Out: 904.966+/-0.288  $\chi^2/\text{NDF}$ : 66603.5/6

All: 899.096+/-0.203  $\chi^2/\text{NDF}$ : 154523.8/12



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



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

Left Out: 1691.497+/-388.046  $\chi^2/\text{NDF}$ : 4.2/5

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

Left In: 1949.054+/-368.645  $\chi^2/\text{NDF}$ : 9.3/5

Left: 1826.875+/-267.267  $\chi^2/\text{NDF}$ : 13.7/11

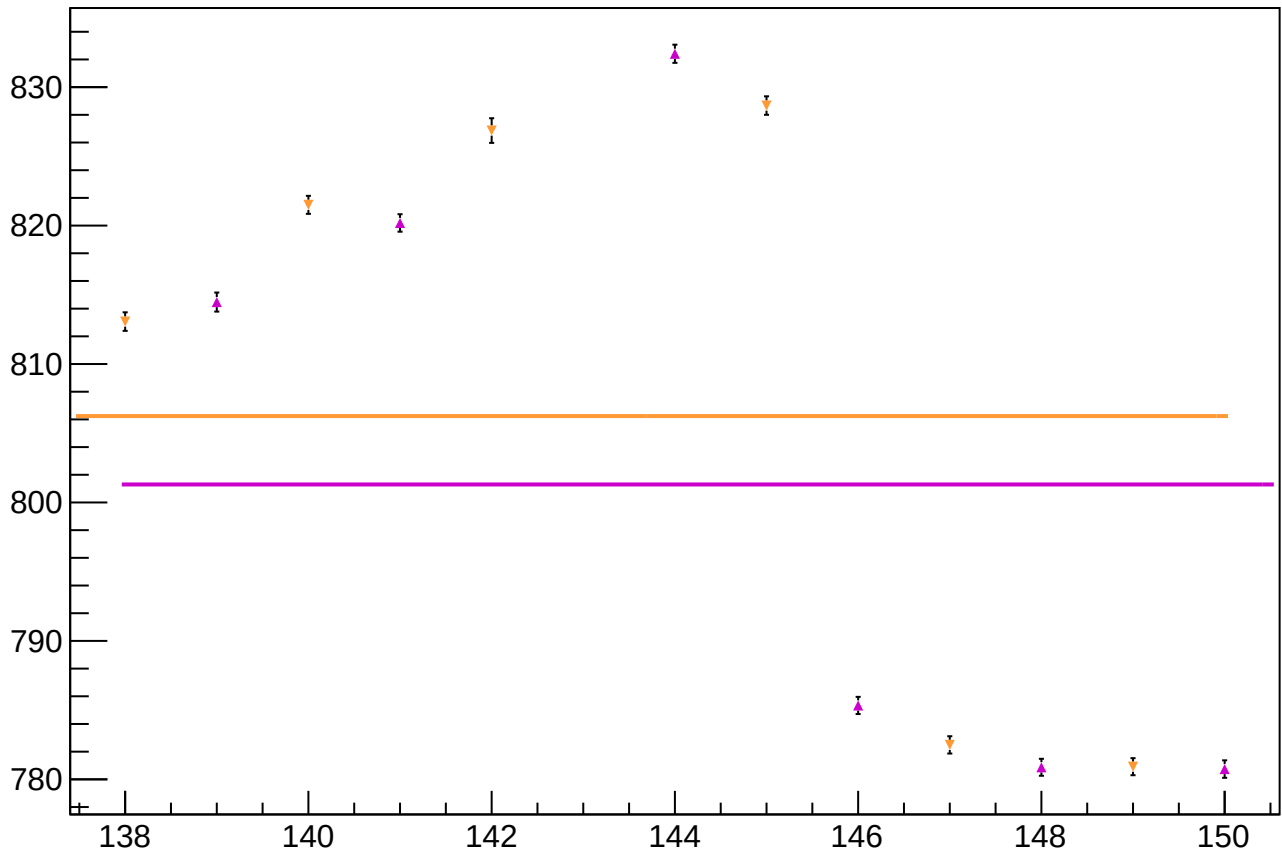
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1949.054+/-368.645  $\chi^2/\text{NDF}$ : 9.3/5

Out: 1691.497+/-388.046  $\chi^2/\text{NDF}$ : 4.2/5

All: 1826.875+/-267.267  $\chi^2/\text{NDF}$ : 13.7/11

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



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

Left Out: 806.240+/-0.274  $\chi^2/\text{NDF}$ :5450.4/5

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

Left In: 801.300+/-0.261  $\chi^2/\text{NDF}$ :6344.6/5

Left: 803.644+/-0.189  $\chi^2/\text{NDF}$ : 11965.4/11

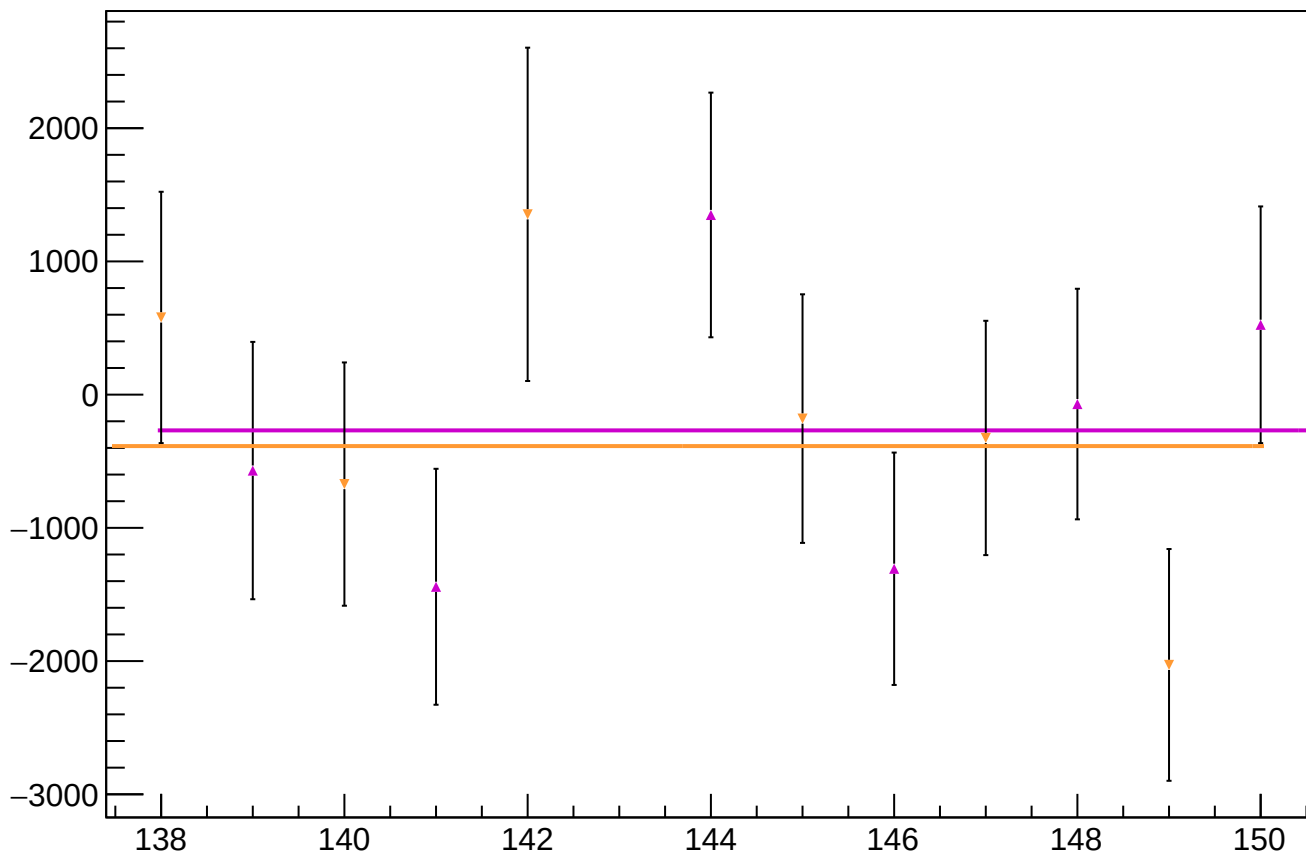
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 801.300+/-0.261  $\chi^2/\text{NDF}$ :6344.6/5

Out: 806.240+/-0.274  $\chi^2/\text{NDF}$ :5450.4/5

All: 803.644+/-0.189  $\chi^2/\text{NDF}$ : 11965.4/11

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



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

Left Out: -386.199+/-385.592  $\chi^2/\text{NDF}$ :6.7/5

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

Left In: -268.359+/-366.365  $\chi^2/\text{NDF}$ :7.2/5

Left: -324.268+/-265.596  $\chi^2/\text{NDF}$ : 14.0/11

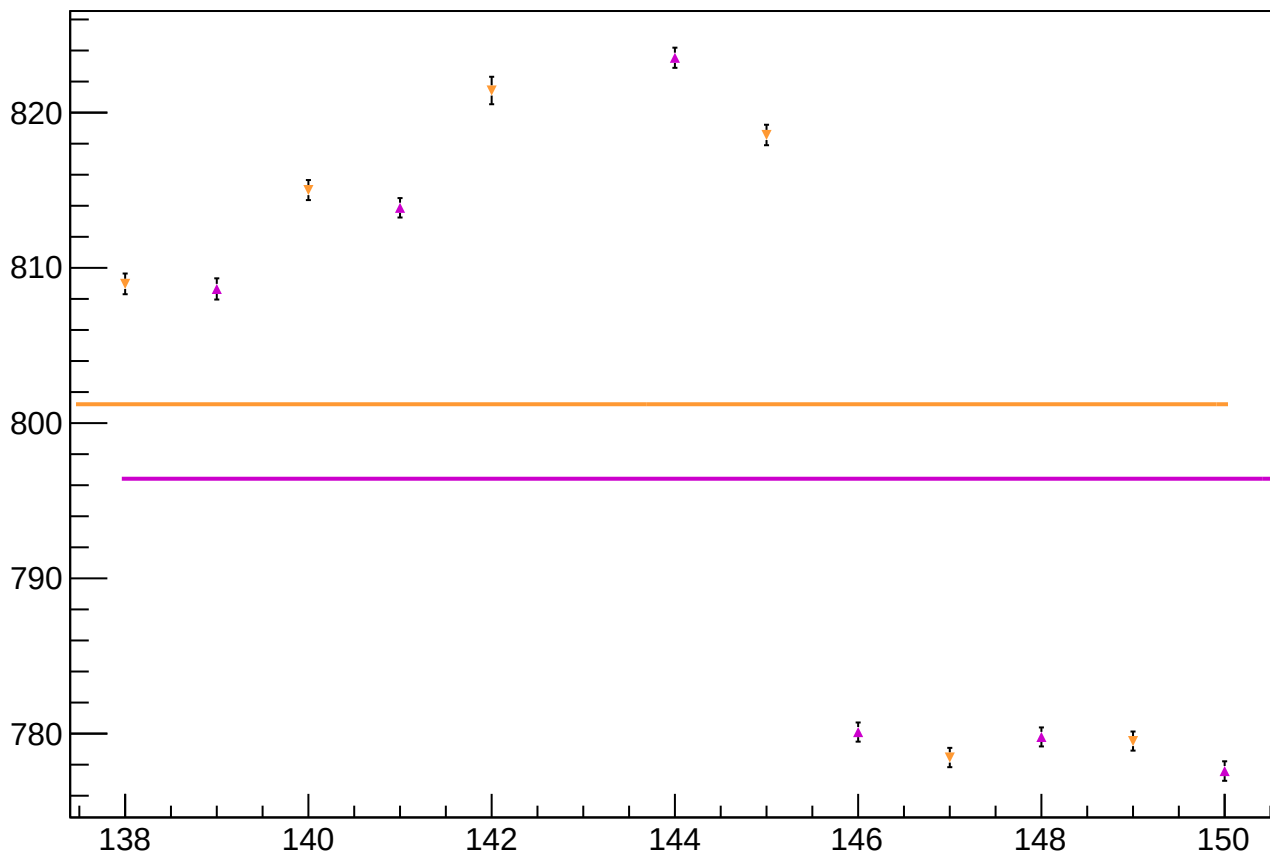
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -268.359+/-366.365  $\chi^2/\text{NDF}$ :7.2/5

Out: -386.199+/-385.592  $\chi^2/\text{NDF}$ :6.7/5

All: -324.268+/-265.596  $\chi^2/\text{NDF}$ : 14.0/11

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



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

Left Out: 801.216+/-0.273  $\chi^2/\text{NDF}$ : 4388.0/5

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

Left In: 796.418+/-0.259  $\chi^2/\text{NDF}$ : 5178.4/5

Left: 798.694+/-0.188  $\chi^2/\text{NDF}$ : 9729.2/11

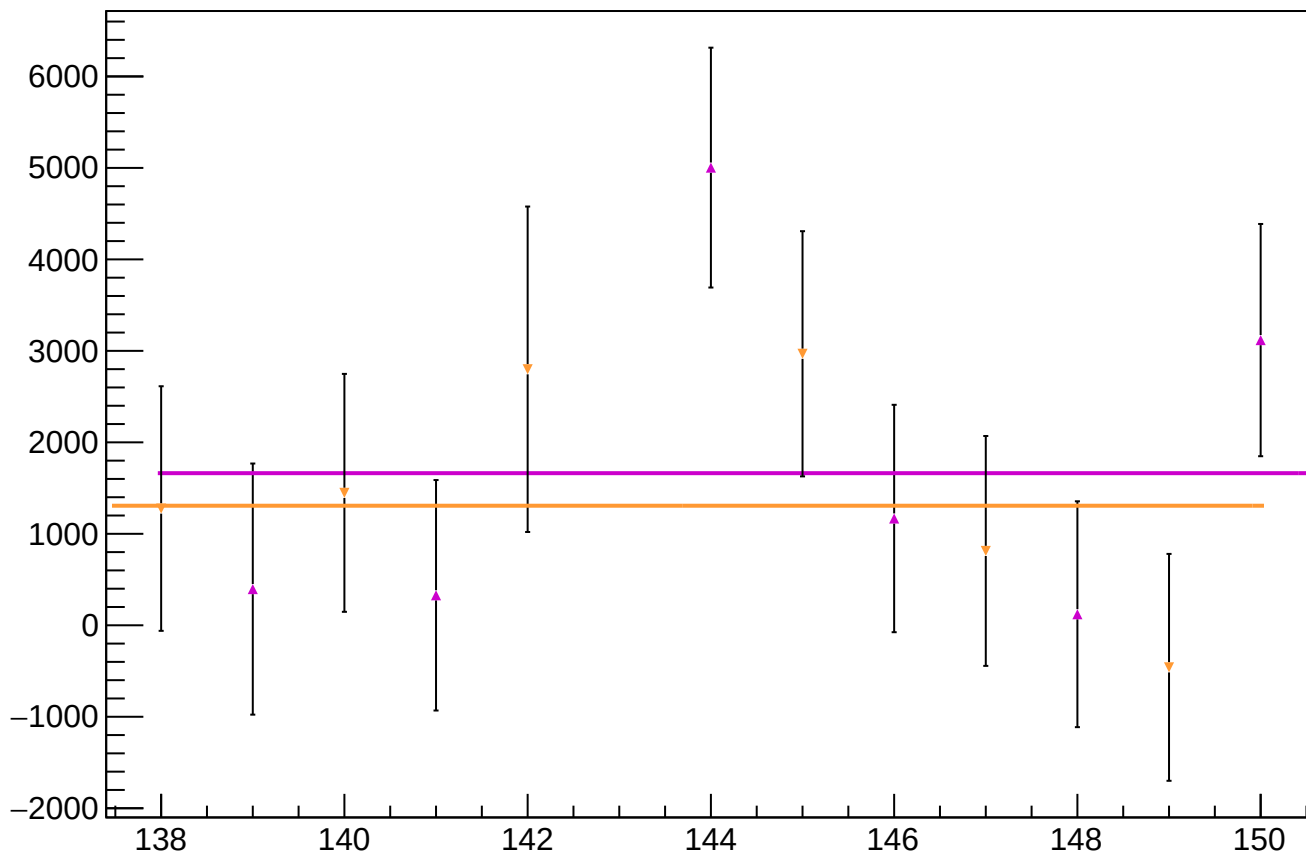
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 796.418+/-0.259  $\chi^2/\text{NDF}$ : 5178.4/5

Out: 801.216+/-0.273  $\chi^2/\text{NDF}$ : 4388.0/5

All: 798.694+/-0.188  $\chi^2/\text{NDF}$ : 9729.2/11

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



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

Left Out: 1307.104+/-549.900  $\chi^2/\text{NDF}$ : 4.4/5

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

Left In: 1662.935+/-522.238  $\chi^2/\text{NDF}$ : 11.5/5

Left: 1494.194+/-378.680  $\chi^2/\text{NDF}$ : 16.2/11

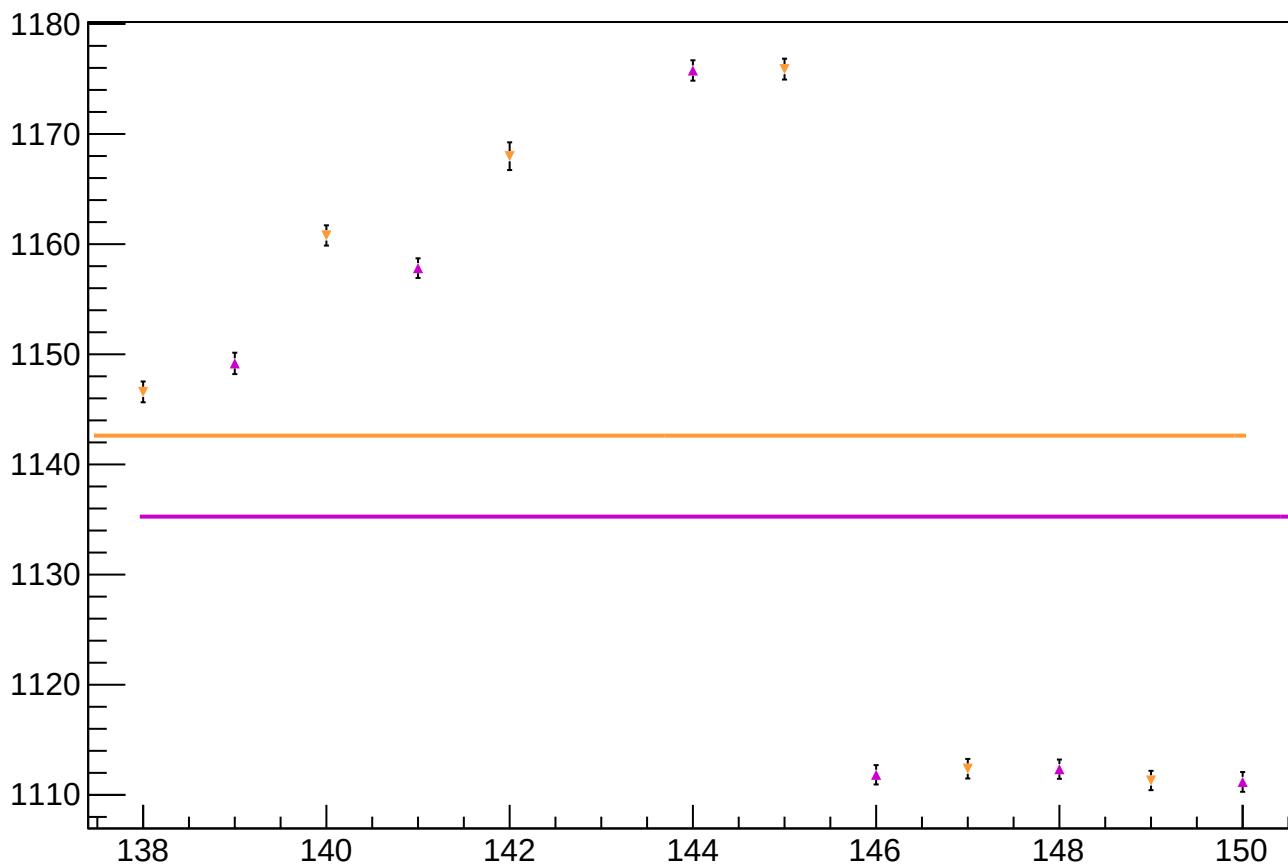
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1662.935+/-522.238  $\chi^2/\text{NDF}$ : 11.5/5

Out: 1307.104+/-549.900  $\chi^2/\text{NDF}$ : 4.4/5

All: 1494.194+/-378.680  $\chi^2/\text{NDF}$ : 16.2/11

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



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

Left Out: 1142.616+/-0.389  $\chi^2/\text{NDF}$ :4480.6/5

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

Left In: 1135.263+/-0.369  $\chi^2/\text{NDF}$ :4876.5/5

Left: 1138.750+/-0.268  $\chi^2/\text{NDF}$ : 9545.1/11

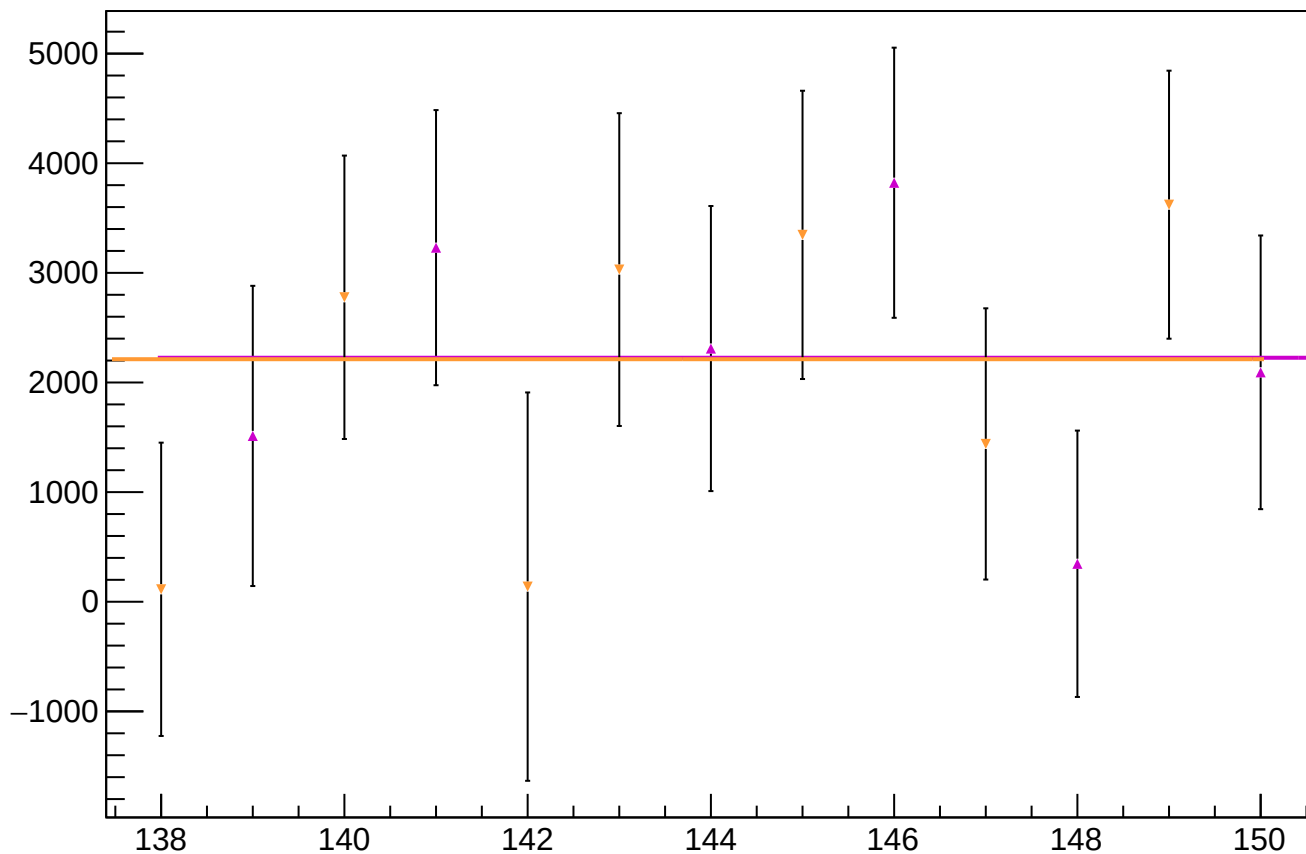
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1135.263+/-0.369  $\chi^2/\text{NDF}$ :4876.5/5

Out: 1142.616+/-0.389  $\chi^2/\text{NDF}$ :4480.6/5

All: 1138.750+/-0.268  $\chi^2/\text{NDF}$ : 9545.1/11

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



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

Left Out: 2212.381+/-508.421  $\chi^2/\text{NDF}$ : 6.8/6

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

Left In: 2225.677+/-517.217  $\chi^2/\text{NDF}$ : 5.0/5

Left: 2218.915+/-362.578  $\chi^2/\text{NDF}$ : 11.8/12

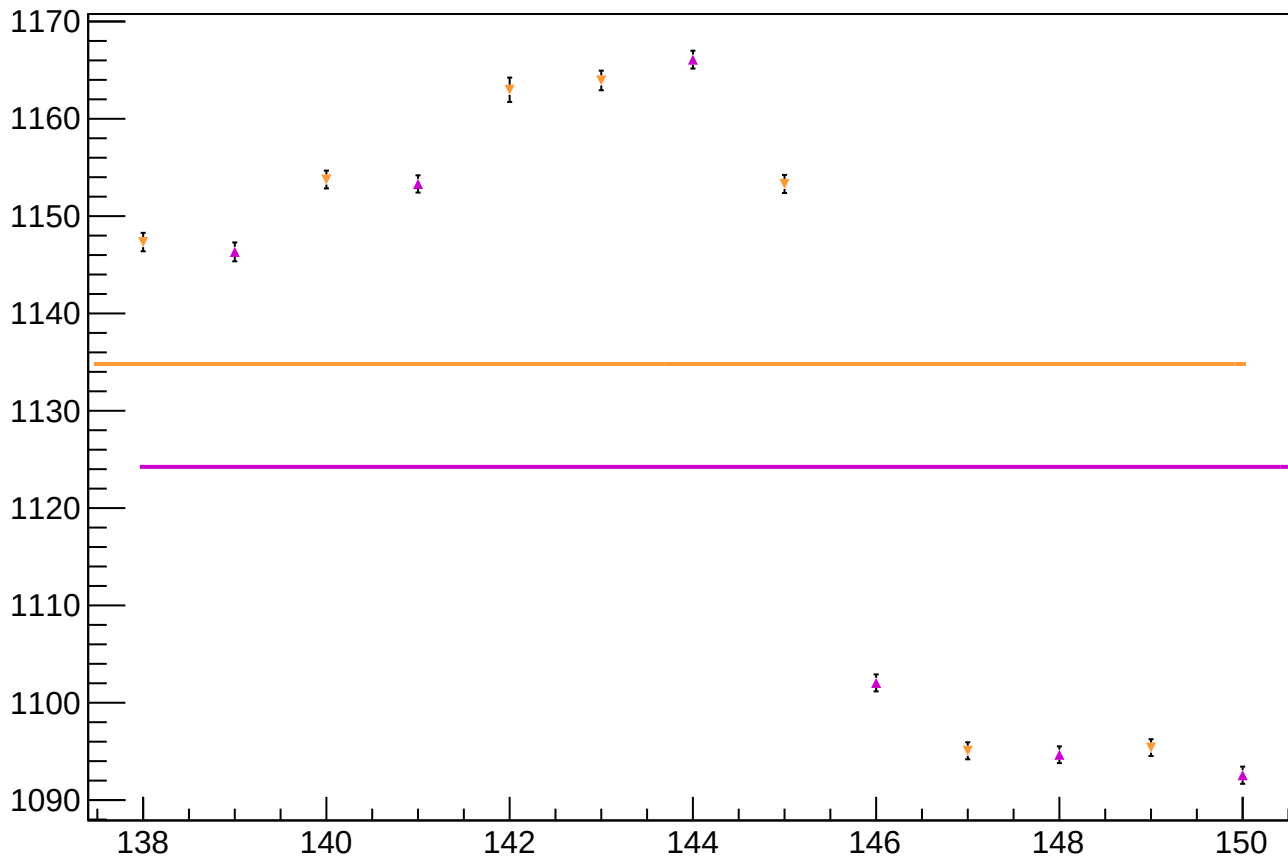
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2225.677+/-517.217  $\chi^2/\text{NDF}$ : 5.0/5

Out: 2212.381+/-508.421  $\chi^2/\text{NDF}$ : 6.8/6

All: 2218.915+/-362.578  $\chi^2/\text{NDF}$ : 11.8/12

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



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

Left Out: 1134.804+/-0.360  $\chi^2$ /NDF:6485.4/6

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

Left In: 1124.235+/-0.366  $\chi^2$ /NDF:6788.6/5

Left: 1129.610+/-0.256  $\chi^2$ /NDF: 13698.7/12

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

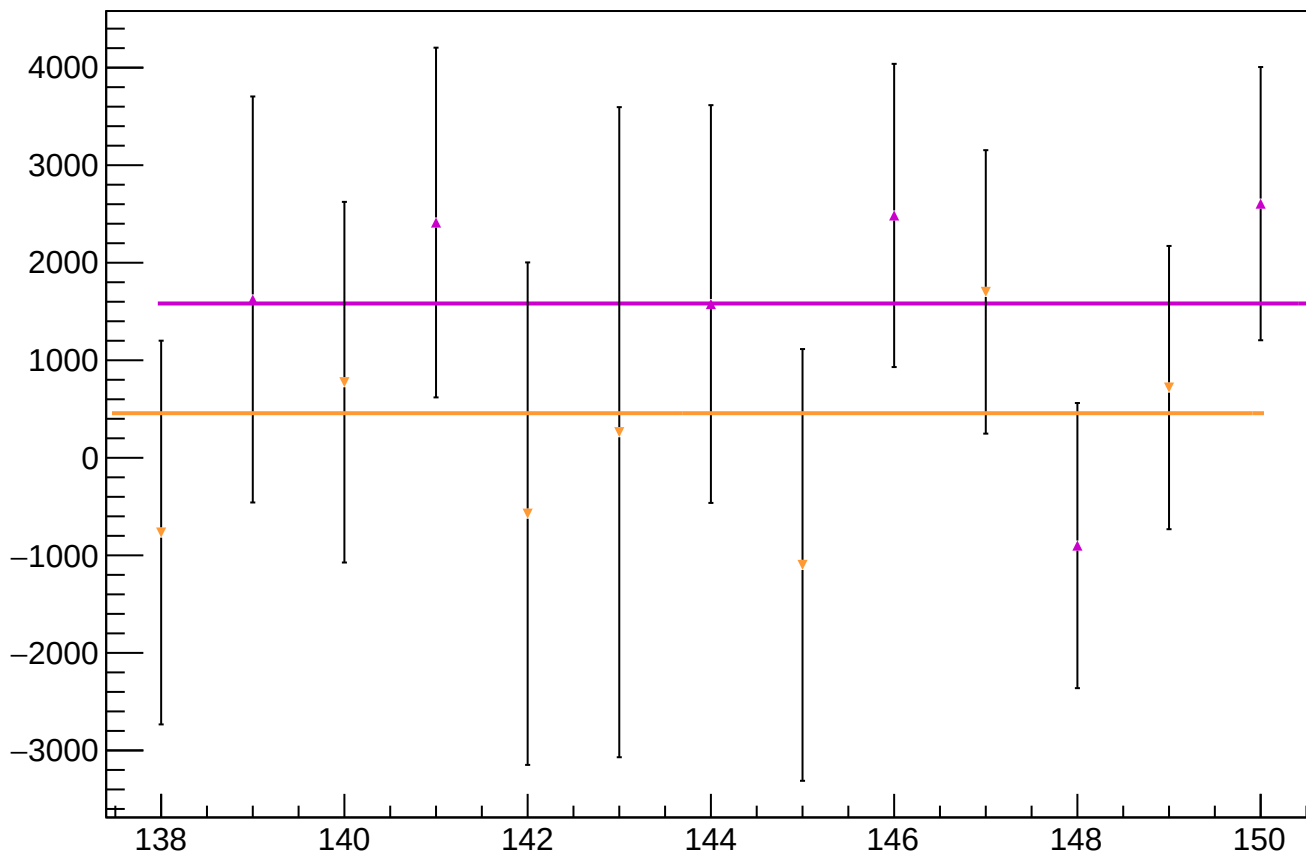
In: 1124.235+/-0.366  $\chi^2$ /NDF:6788.6/5

Out: 1134.804+/-0.360  $\chi^2$ /NDF:6485.4/6

All: 1129.610+/-0.256  $\chi^2$ /NDF: 13698.7/12



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



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

Left Out: 457.374+/-717.239  $\chi^2/\text{NDF}$ :1.8/6

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

Left In: 1582.190+/-678.165  $\chi^2/\text{NDF}$ :4.0/5

Left: 1051.254+/-492.770  $\chi^2/\text{NDF}$ : 7.1/12

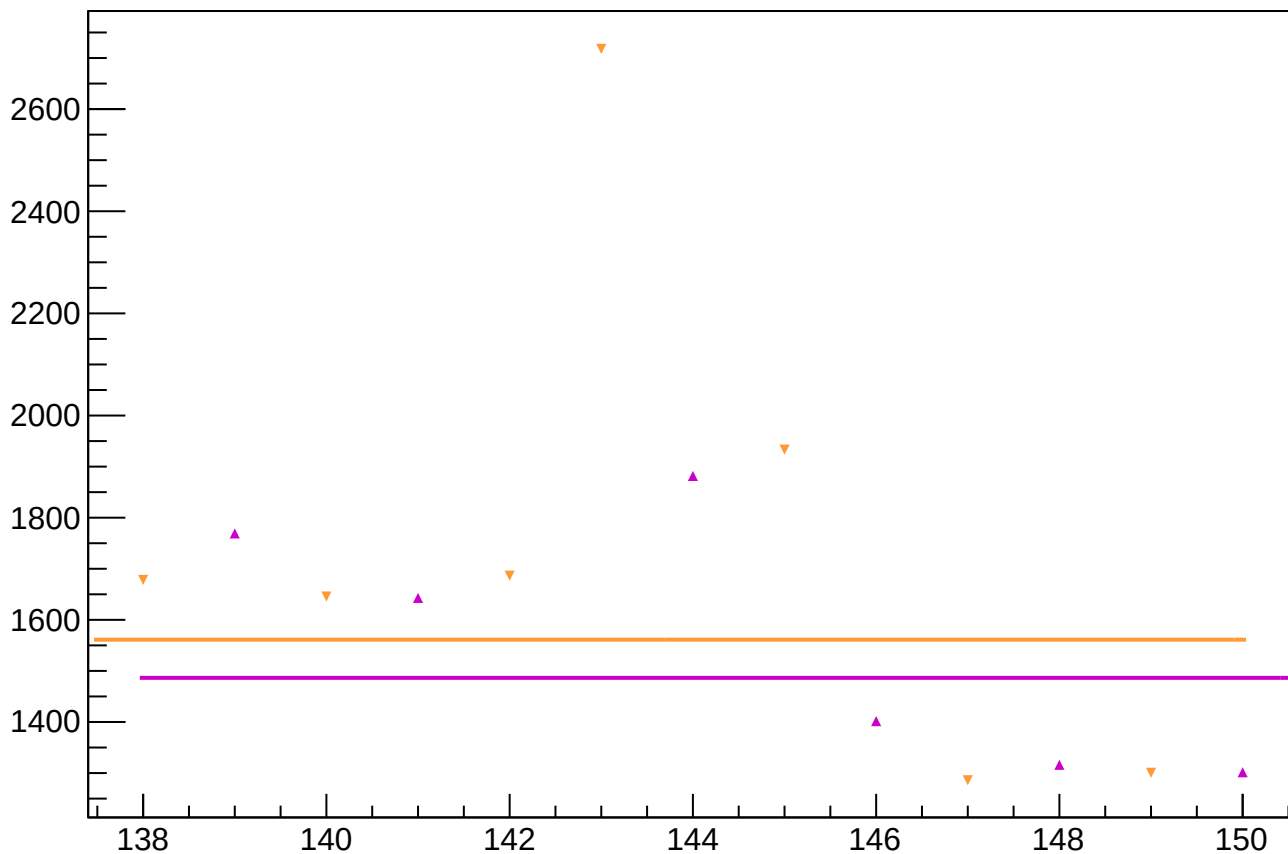
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1582.190+/-678.165  $\chi^2/\text{NDF}$ :4.0/5

Out: 457.374+/-717.239  $\chi^2/\text{NDF}$ :1.8/6

All: 1051.254+/-492.770  $\chi^2/\text{NDF}$ : 7.1/12

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



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

Left Out: 1561.157+/-0.507  $\chi^2/\text{NDF}$ :449688.1/6

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

Left In: 1486.449+/-0.480  $\chi^2/\text{NDF}$ :195257.5/5

Left: 1521.713+/-0.348  $\chi^2/\text{NDF}$ : 656402.1/12

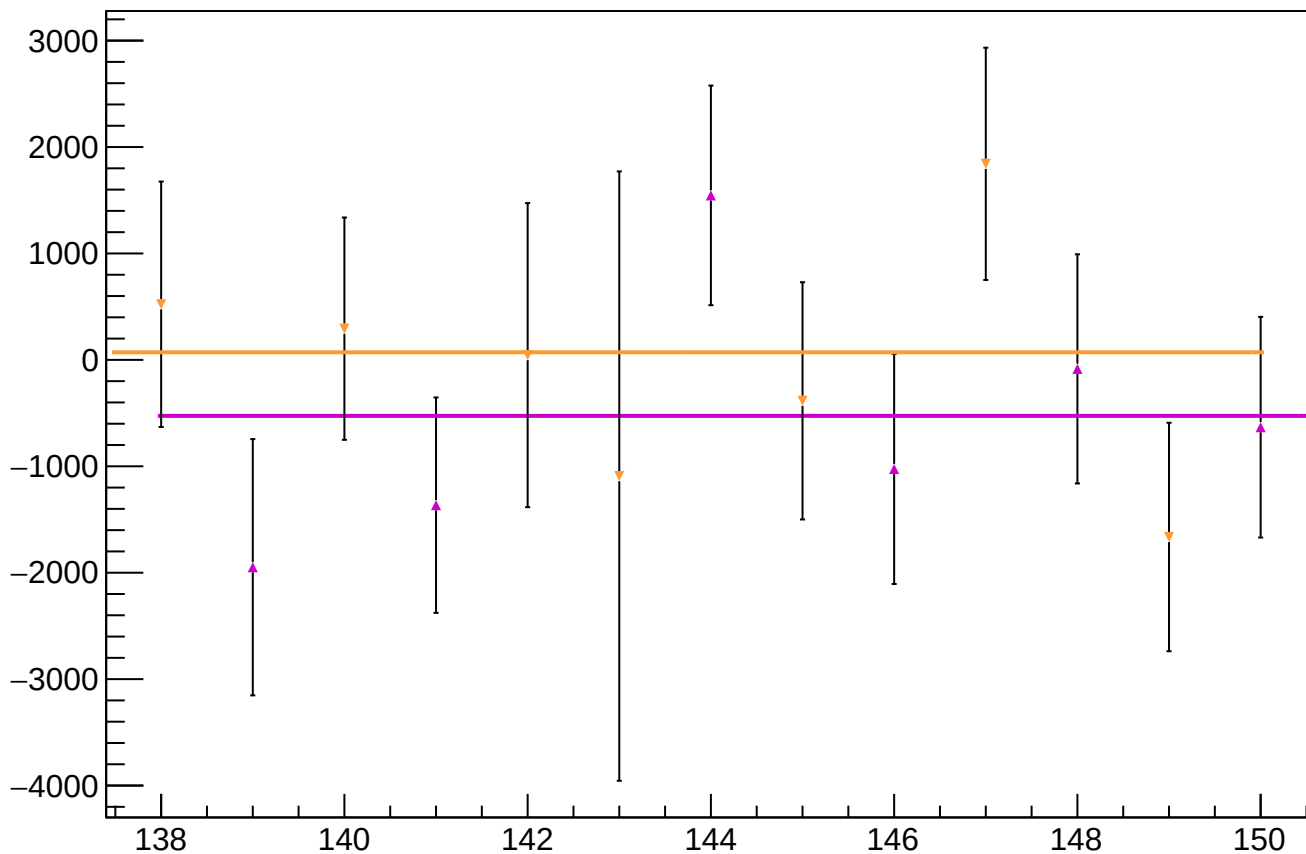
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1486.449+/-0.480  $\chi^2/\text{NDF}$ :195257.5/5

Out: 1561.157+/-0.507  $\chi^2/\text{NDF}$ :449688.1/6

All: 1521.713+/-0.348  $\chi^2/\text{NDF}$ : 656402.1/12

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



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

Left Out: 71.364+/-456.793  $\chi^2/\text{NDF}$ :5.8/6

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

Left In: -526.059+/-436.279  $\chi^2/\text{NDF}$ :6.5/5

Left: -241.064+/-315.499  $\chi^2/\text{NDF}$ : 13.2/12

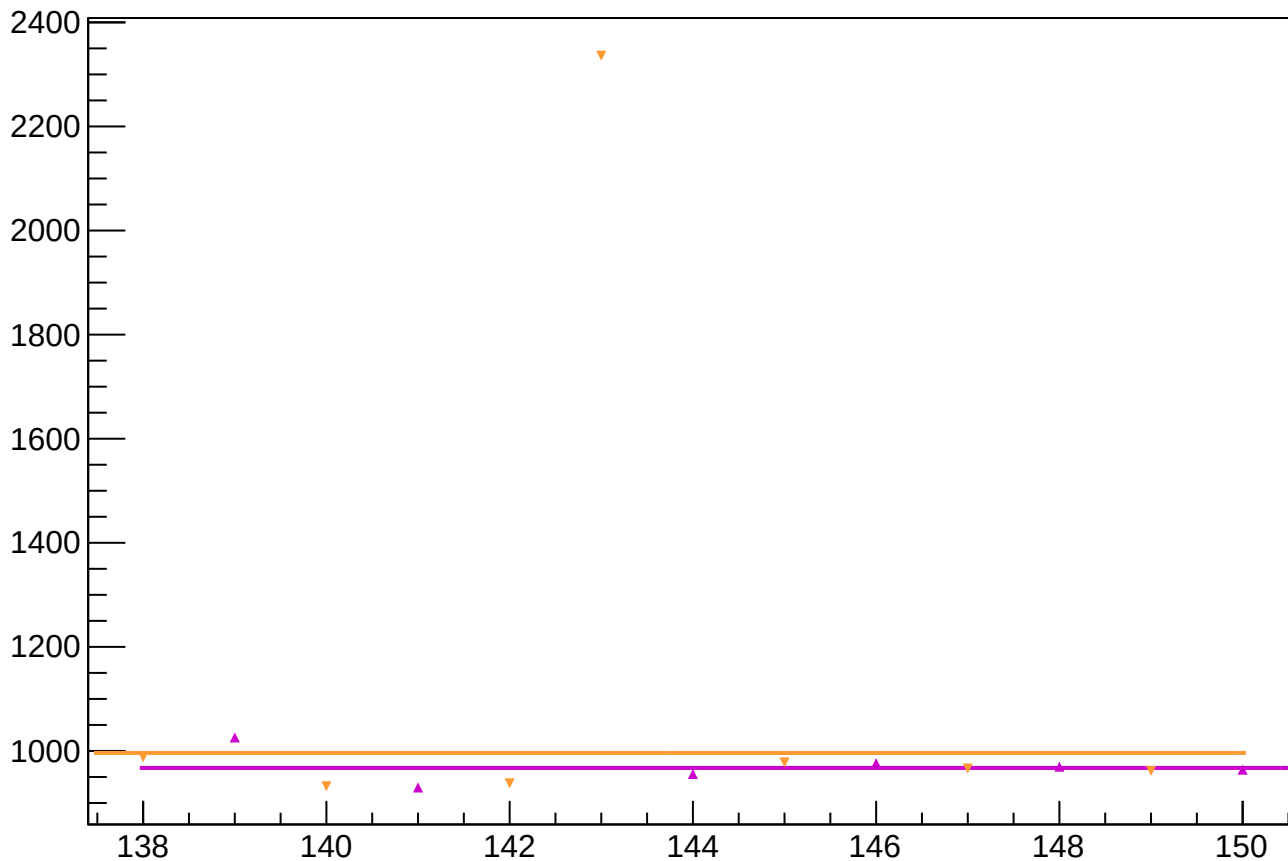
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -526.059+/-436.279  $\chi^2/\text{NDF}$ :6.5/5

Out: 71.364+/-456.793  $\chi^2/\text{NDF}$ :5.8/6

All: -241.064+/-315.499  $\chi^2/\text{NDF}$ : 13.2/12

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



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

Left Out: 996.183+/-0.323  $\chi^2/\text{NDF}$ : 452962.9/6

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

Left In: 967.403+/-0.308  $\chi^2/\text{NDF}$ : 7902.5/5

Left: 981.132+/-0.223  $\chi^2/\text{NDF}$ : 465017.2/12

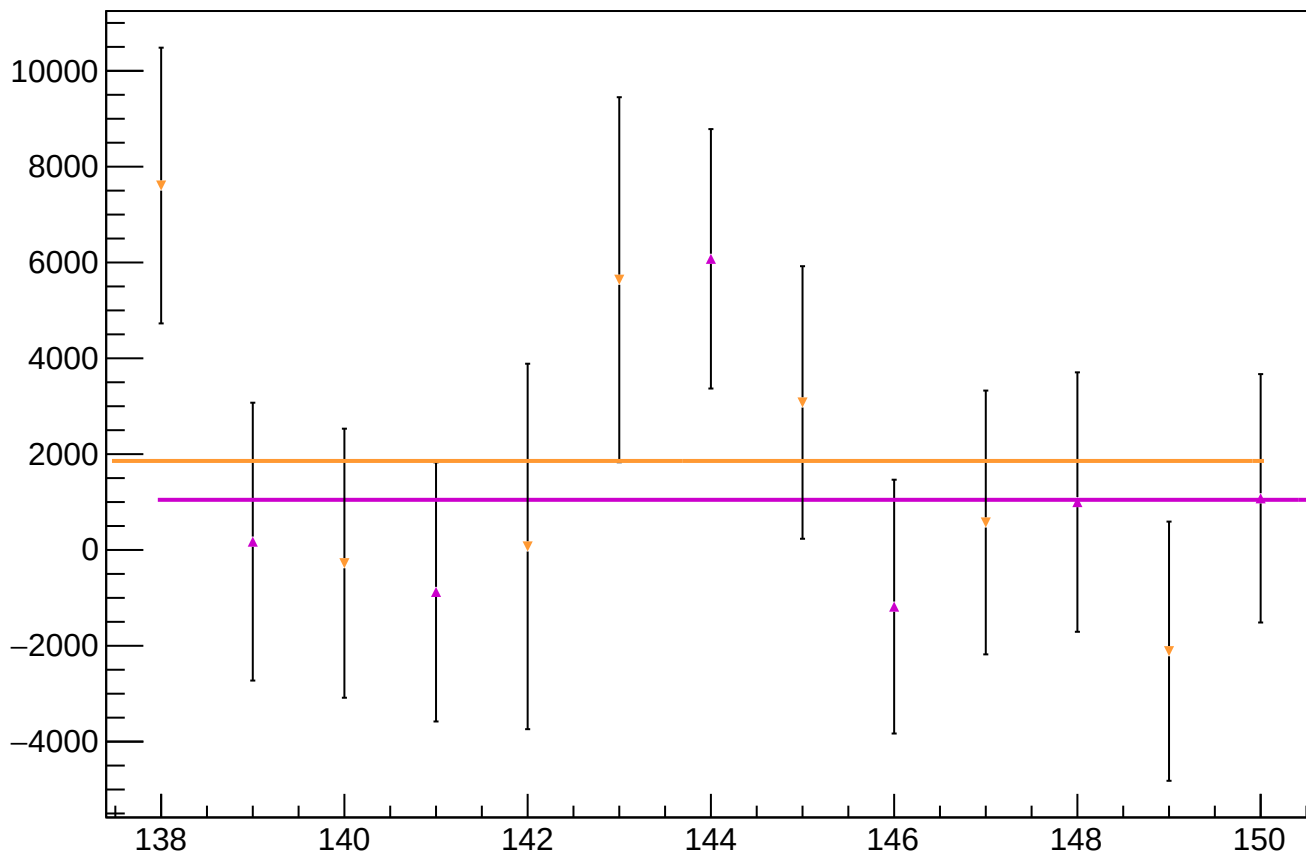
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 967.403+/-0.308  $\chi^2/\text{NDF}$ : 7902.5/5

Out: 996.183+/-0.323  $\chi^2/\text{NDF}$ : 452962.9/6

All: 981.132+/-0.223  $\chi^2/\text{NDF}$ : 465017.2/12

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



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

Left Out: 1857.913+/-1134.115  $\chi^2/\text{NDF}$ : 8.3/6

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

Left In: 1046.602+/-1104.399  $\chi^2/\text{NDF}$ : 4.8/5

Left: 1441.489+/-791.225  $\chi^2/\text{NDF}$ : 13.3/12

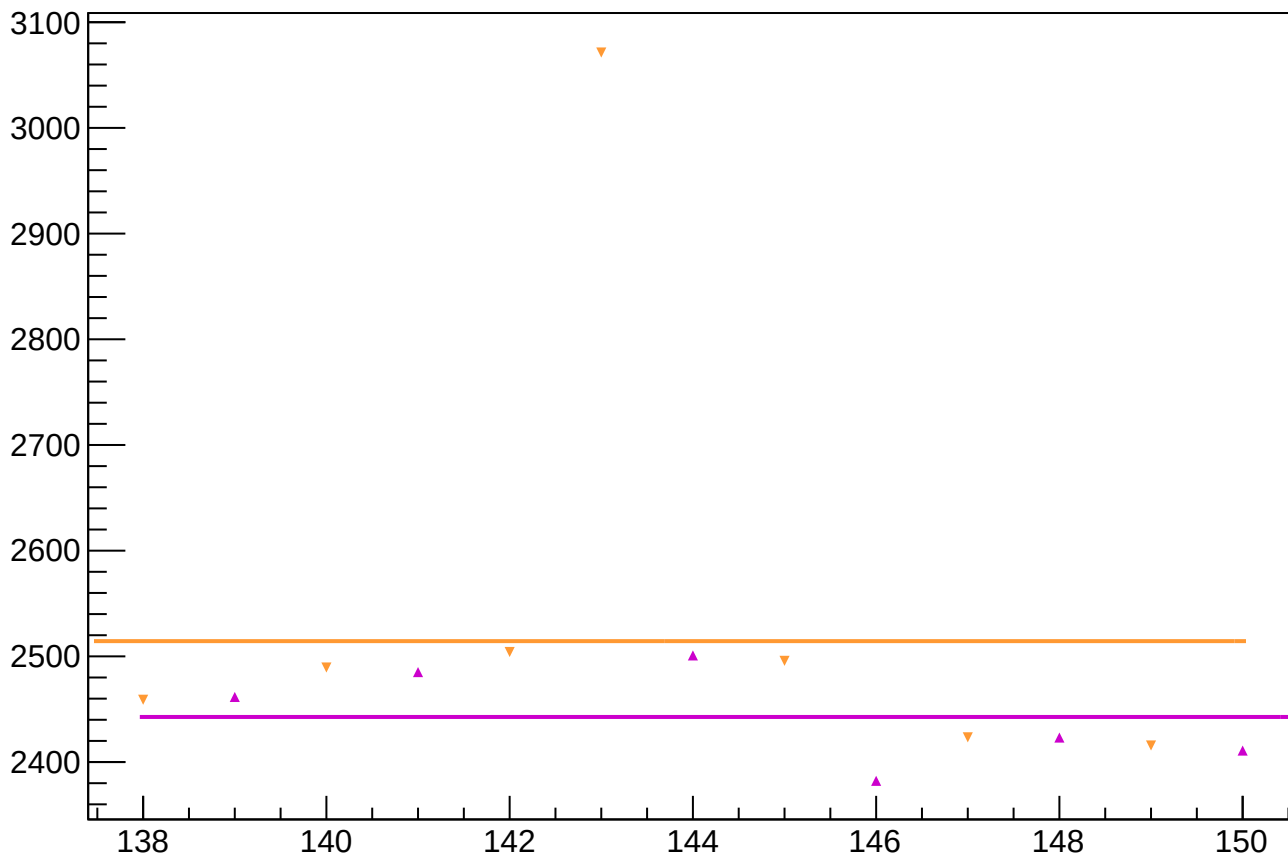
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1046.602+/-1104.399  $\chi^2/\text{NDF}$ : 4.8/5

Out: 1857.913+/-1134.115  $\chi^2/\text{NDF}$ : 8.3/6

All: 1441.489+/-791.225  $\chi^2/\text{NDF}$ : 13.3/12

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



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

Left Out: 2514.409+/-0.802  $\chi^2/\text{NDF}$ :48597.7/6

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

Left In: 2442.669+/-0.781  $\chi^2/\text{NDF}$ :2948.3/5

Left: 2477.587+/-0.559  $\chi^2/\text{NDF}$ : 55653.6/12

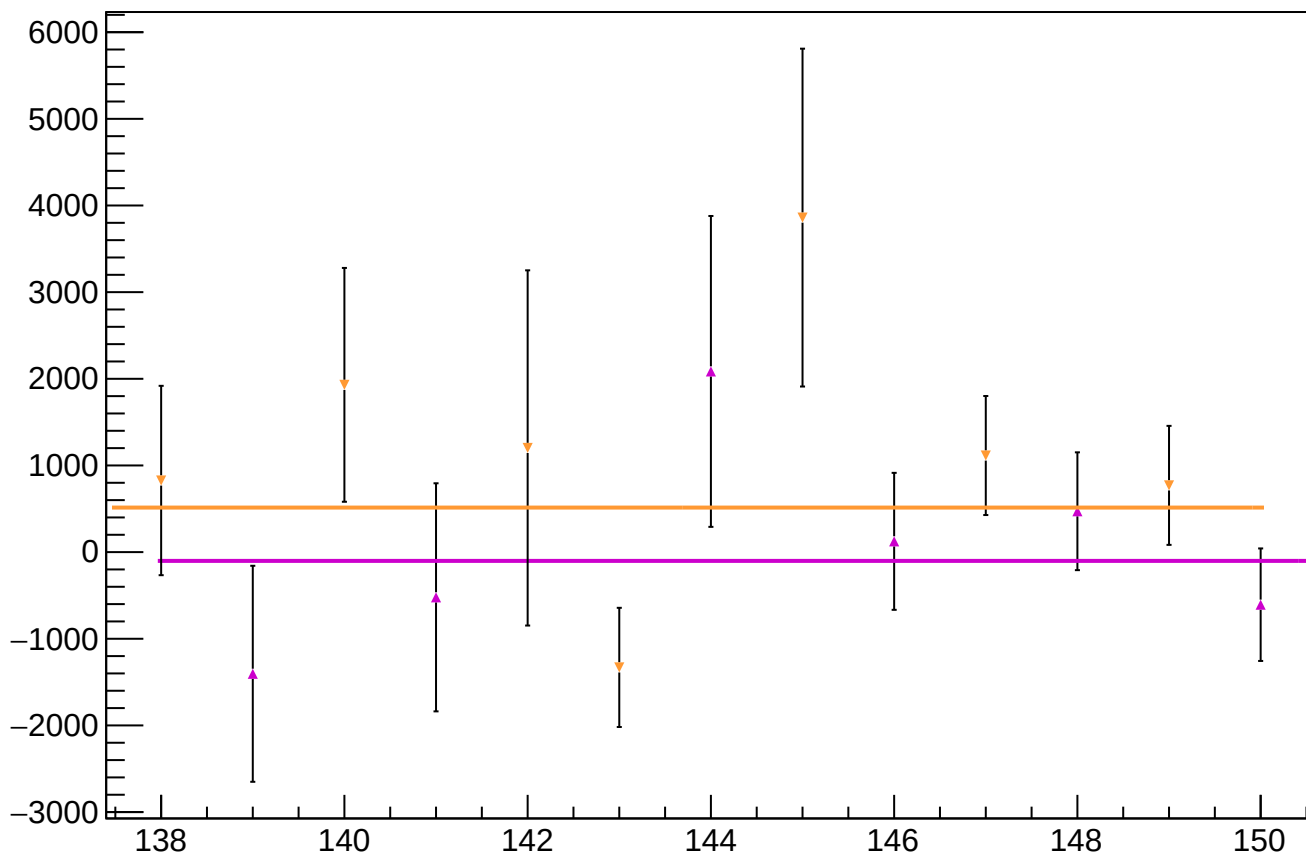
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2442.669+/-0.781  $\chi^2/\text{NDF}$ :2948.3/5

Out: 2514.409+/-0.802  $\chi^2/\text{NDF}$ :48597.7/6

All: 2477.587+/-0.559  $\chi^2/\text{NDF}$ : 55653.6/12

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



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

Left Out: 513.984+/-348.277  $\chi^2/\text{NDF}$ :12.3/6

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

Left In: -101.354+/-361.102  $\chi^2/\text{NDF}$ :4.1/5

Left: 217.436+/-250.680  $\chi^2/\text{NDF}$ : 17.9/12

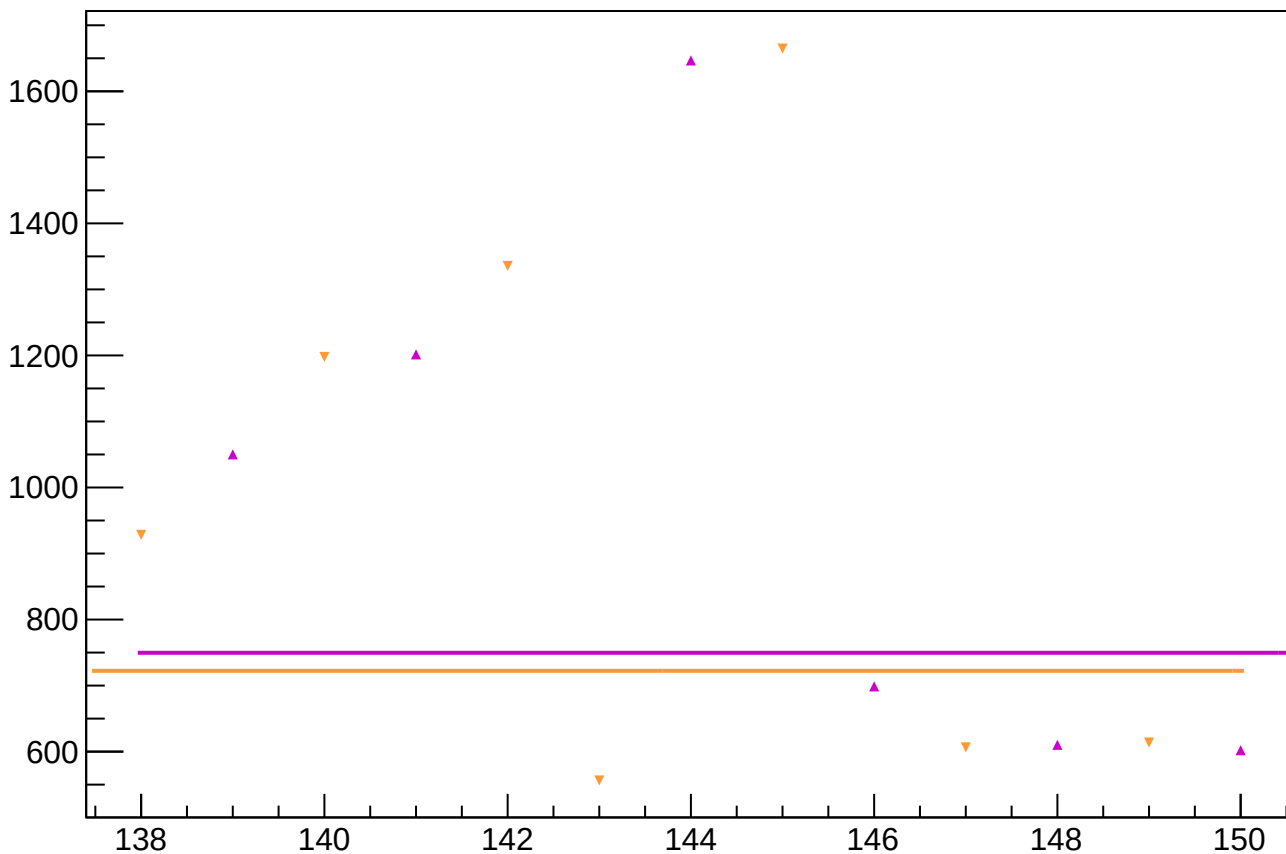
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -101.354+/-361.102  $\chi^2/\text{NDF}$ :4.1/5

Out: 513.984+/-348.277  $\chi^2/\text{NDF}$ :12.3/6

All: 217.436+/-250.680  $\chi^2/\text{NDF}$ : 17.9/12

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



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

Left Out: 722.389+/-0.246  $\chi^2/\text{NDF}$ :1189235.1/6

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

Left In: 749.707+/-0.255  $\chi^2/\text{NDF}$ :1047953.7/5

Left: 735.554+/-0.177  $\chi^2/\text{NDF}$ : 2243119.1/12

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

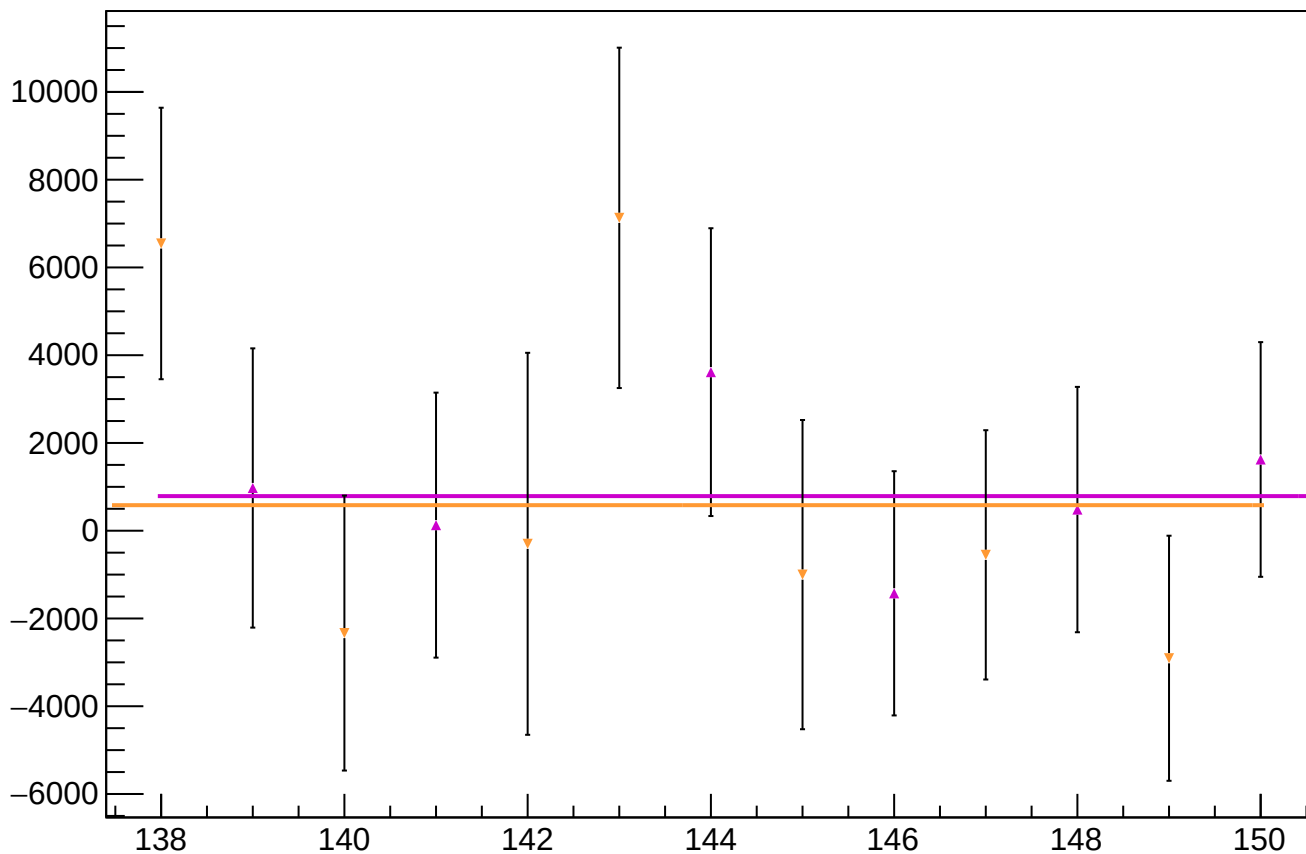
In: 749.707+/-0.255  $\chi^2/\text{NDF}$ :1047953.7/5

Out: 722.389+/-0.246  $\chi^2/\text{NDF}$ :1189235.1/6

All: 735.554+/-0.177  $\chi^2/\text{NDF}$ : 2243119.1/12



# asym\_atl1\_mean vs Slug, Sign Corrected



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

Left Out: 582.122+/-1232.522  $\chi^2/\text{NDF}$ :9.4/6

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

Left In: 788.731+/-1196.690  $\chi^2/\text{NDF}$ :1.5/5

Left: 688.473+/-858.576  $\chi^2/\text{NDF}$ : 10.9/12

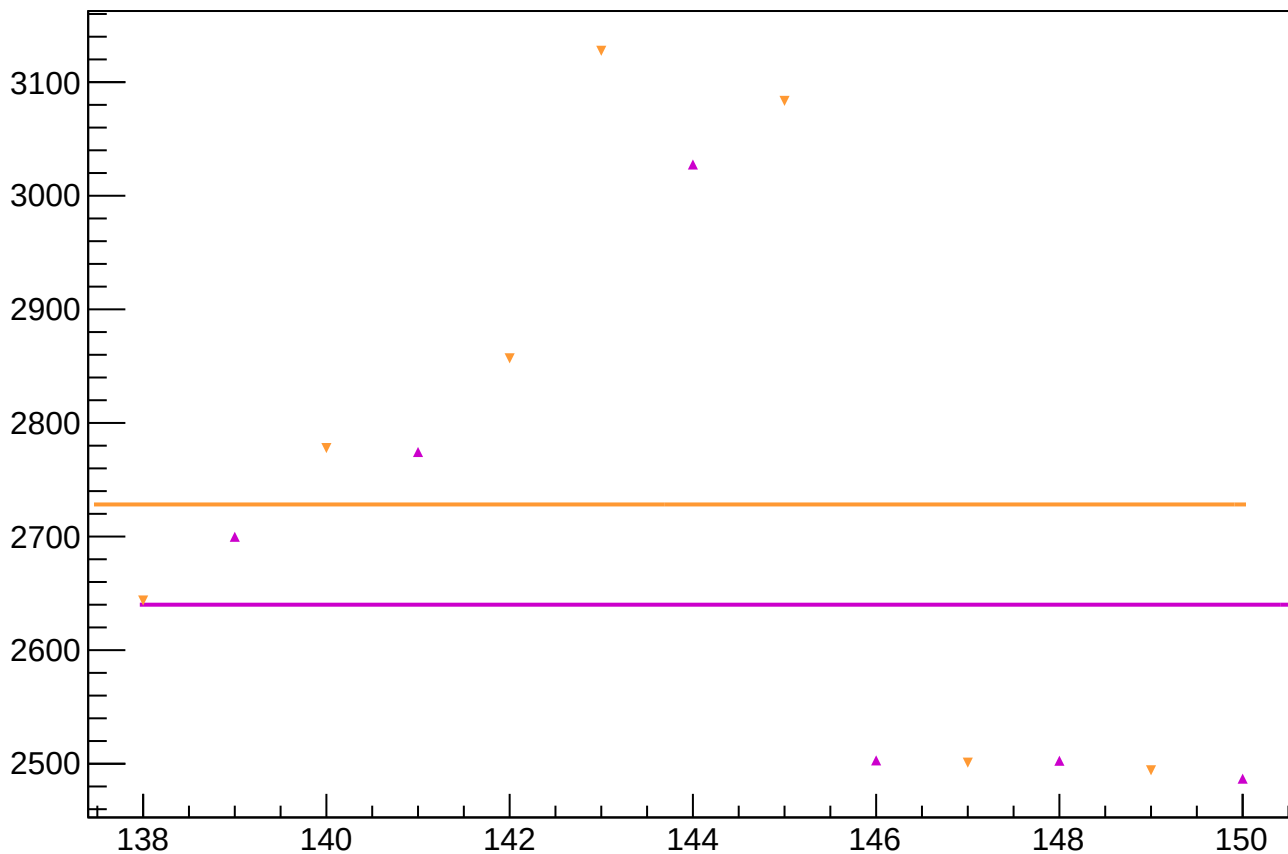
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 788.731+/-1196.690  $\chi^2/\text{NDF}$ :1.5/5

Out: 582.122+/-1232.522  $\chi^2/\text{NDF}$ :9.4/6

All: 688.473+/-858.576  $\chi^2/\text{NDF}$ : 10.9/12

# asym\_atl1\_rms vs Slug, Sign Corrected



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

Left Out: 2728.252+/-0.872  $\chi^2/\text{NDF}$ : 72119.6/6

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

Left In: 2640.013+/-0.846  $\chi^2/\text{NDF}$ : 48827.8/5

Left: 2682.831+/-0.607  $\chi^2/\text{NDF}$ : 126224.0/12

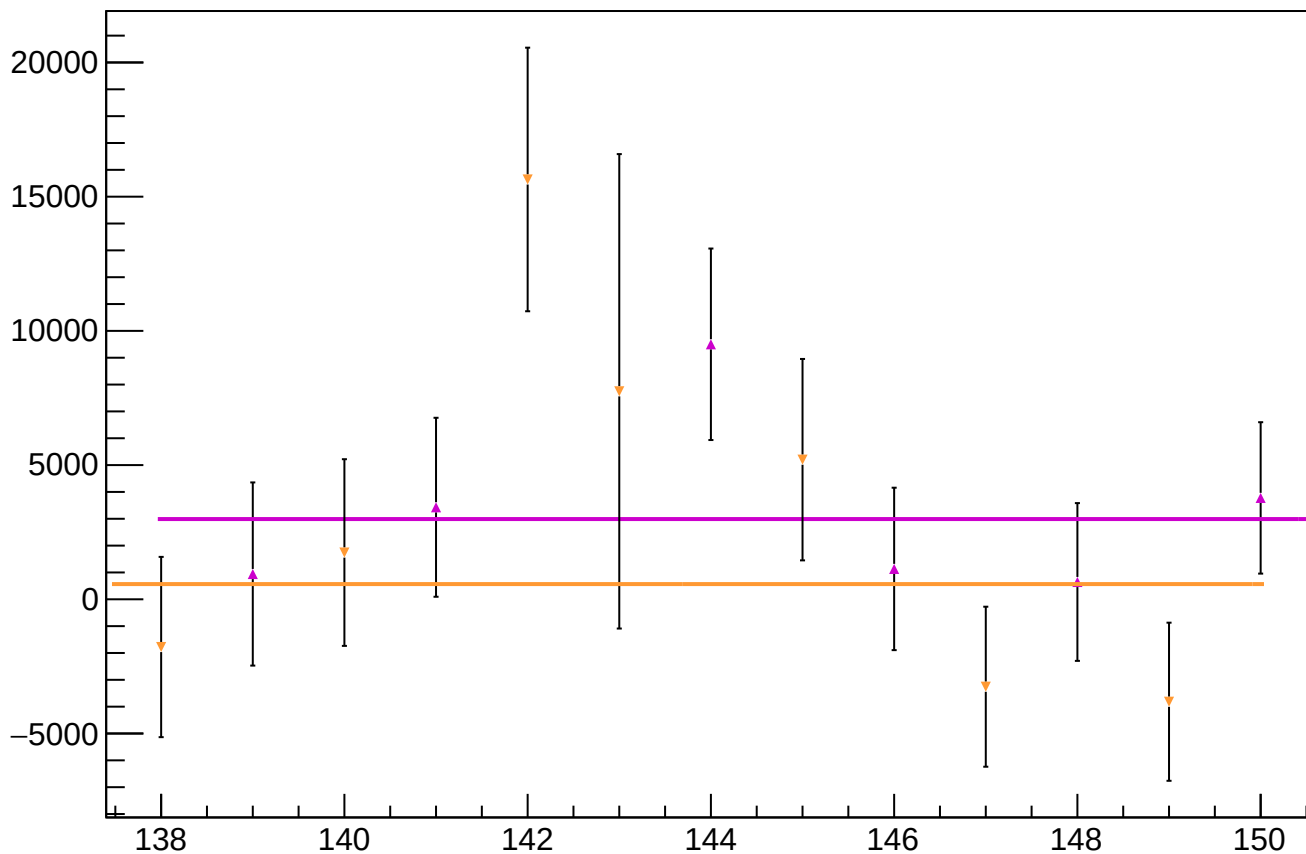
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2640.013+/-0.846  $\chi^2/\text{NDF}$ : 48827.8/5

Out: 2728.252+/-0.872  $\chi^2/\text{NDF}$ : 72119.6/6

All: 2682.831+/-0.607  $\chi^2/\text{NDF}$ : 126224.0/12

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



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

Left Out: 566.833+/-1380.799  $\chi^2/\text{NDF}$ :16.1/6

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

Left In: 2989.385+/-1285.451  $\chi^2/\text{NDF}$ :4.8/5

Left: 1864.632+/-940.855  $\chi^2/\text{NDF}$ : 22.5/12

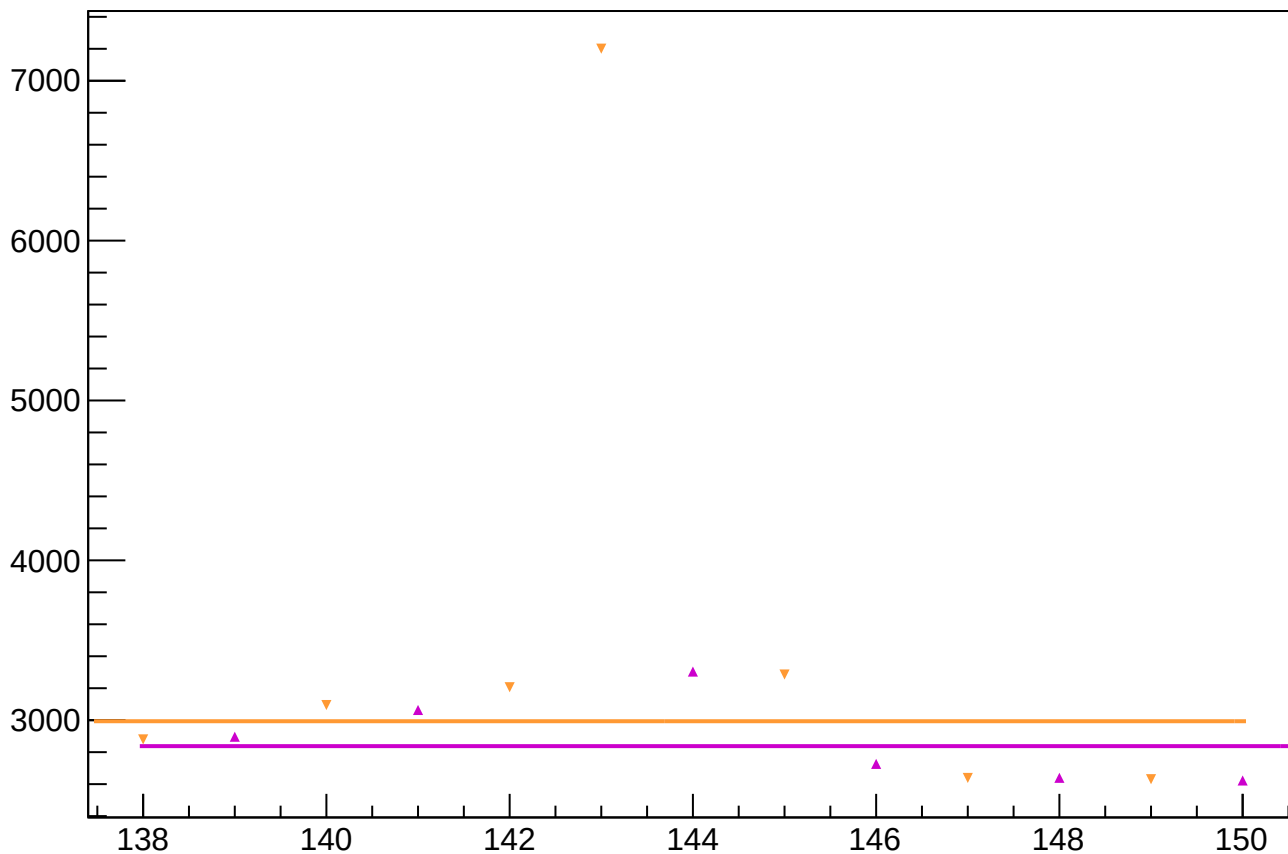
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2989.385+/-1285.451  $\chi^2/\text{NDF}$ :4.8/5

Out: 566.833+/-1380.799  $\chi^2/\text{NDF}$ :16.1/6

All: 1864.632+/-940.855  $\chi^2/\text{NDF}$ : 22.5/12

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



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

Left Out: 2993.523+/-0.976  $\chi^2/\text{NDF}$ :531775.7/6

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

Left In: 2837.731+/-0.909  $\chi^2/\text{NDF}$ :67384.3/5

Left: 2910.063+/-0.665  $\chi^2/\text{NDF}$ : 612799.4/12

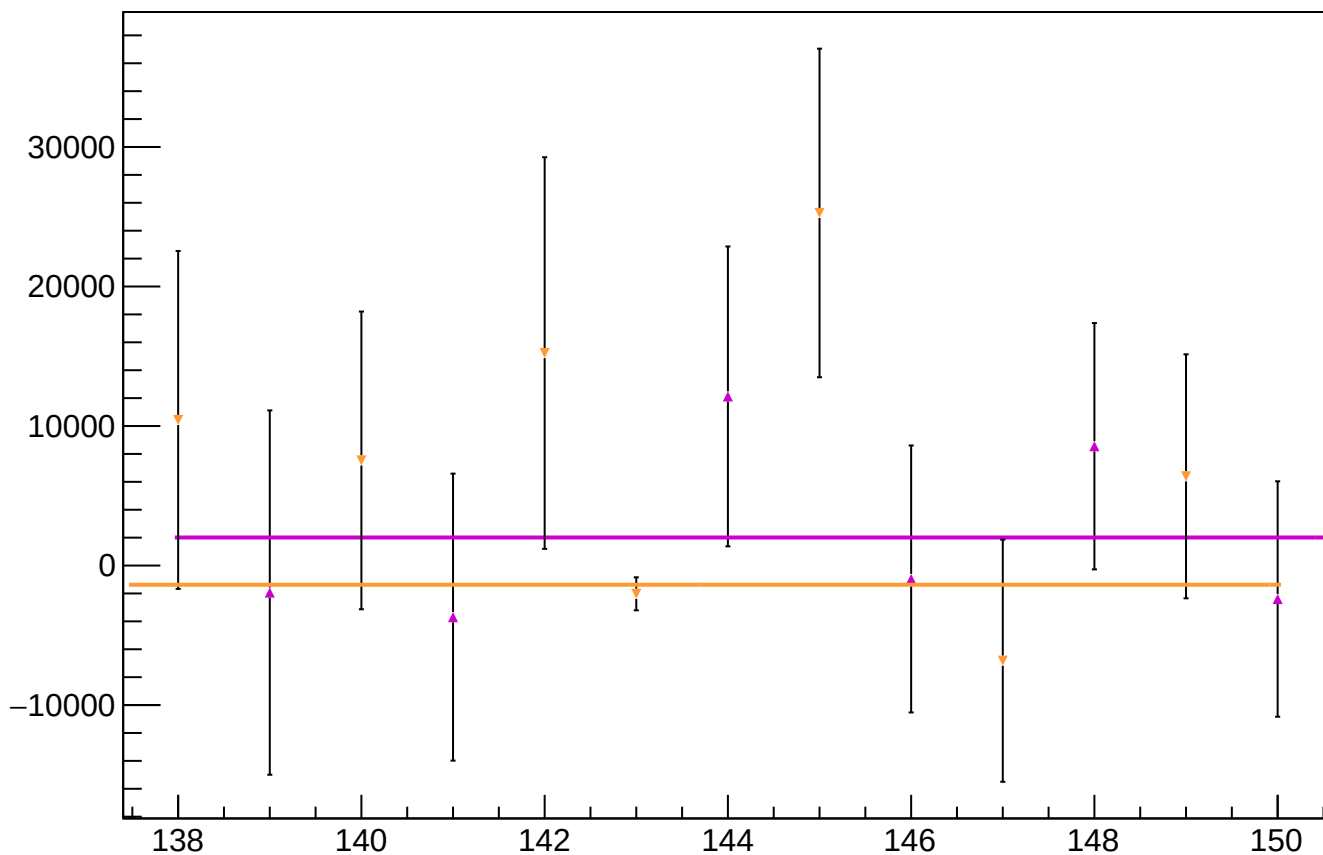
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2837.731+/-0.909  $\chi^2/\text{NDF}$ :67384.3/5

Out: 2993.523+/-0.976  $\chi^2/\text{NDF}$ :531775.7/6

All: 2910.063+/-0.665  $\chi^2/\text{NDF}$ : 612799.4/12

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



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

Left Out: -1375.648+/-1140.181  $\chi^2/\text{NDF}$ : 9.7/6

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

Left In: 2010.404+/-4023.175  $\chi^2/\text{NDF}$ : 2.2/5

Left: -1123.908+/-1096.979  $\chi^2/\text{NDF}$ : 12.5/12

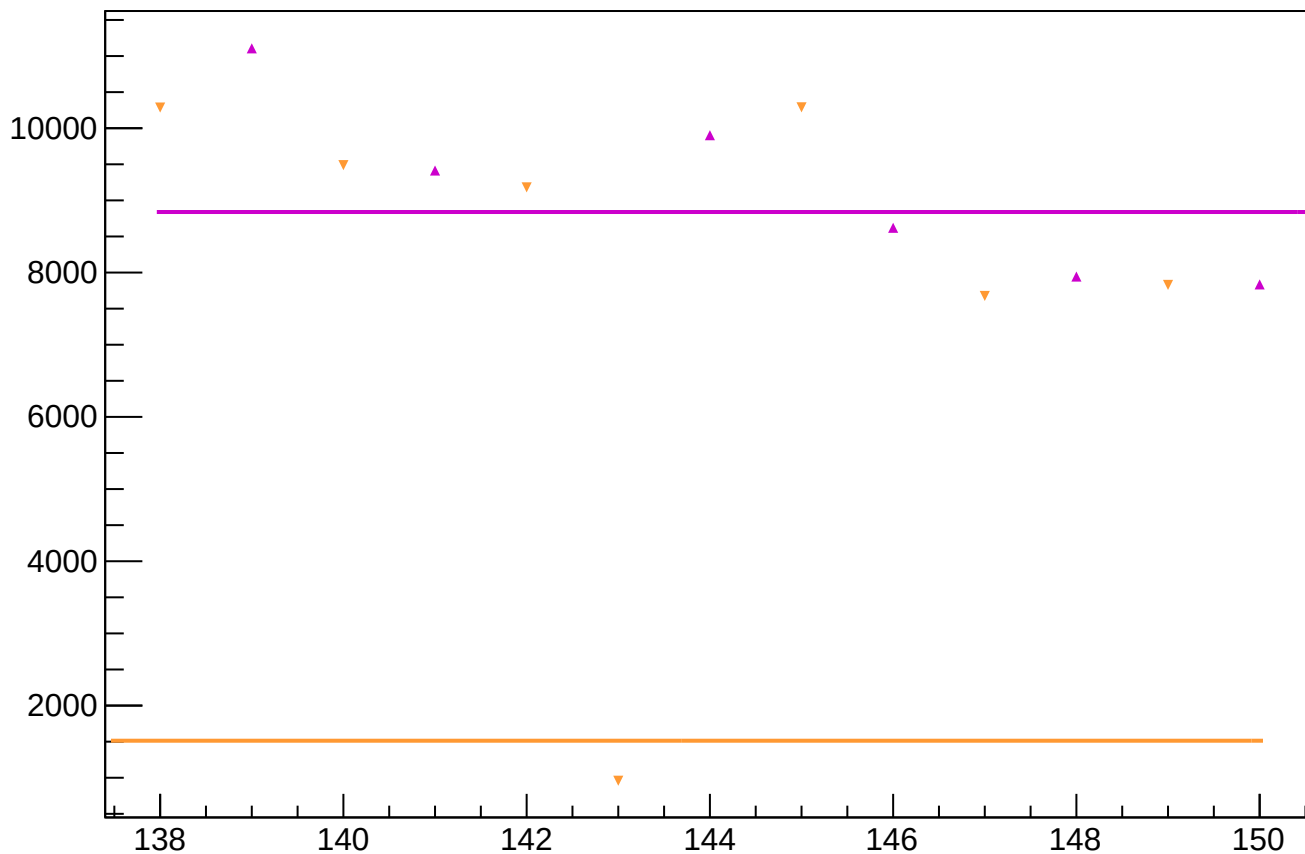
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2010.404+/-4023.175  $\chi^2/\text{NDF}$ : 2.2/5

Out: -1375.648+/-1140.181  $\chi^2/\text{NDF}$ : 9.7/6

All: -1123.908+/-1096.979  $\chi^2/\text{NDF}$ : 12.5/12

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



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

Left Out: 1513.140+/-0.806  $\chi^2/\text{NDF}$ :6366273.1/6

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

Left In: 8838.989+/-2.845  $\chi^2/\text{NDF}$ :136037.8/5

Left: 2057.789+/-0.776  $\chi^2/\text{NDF}$ : 12640731.4/12

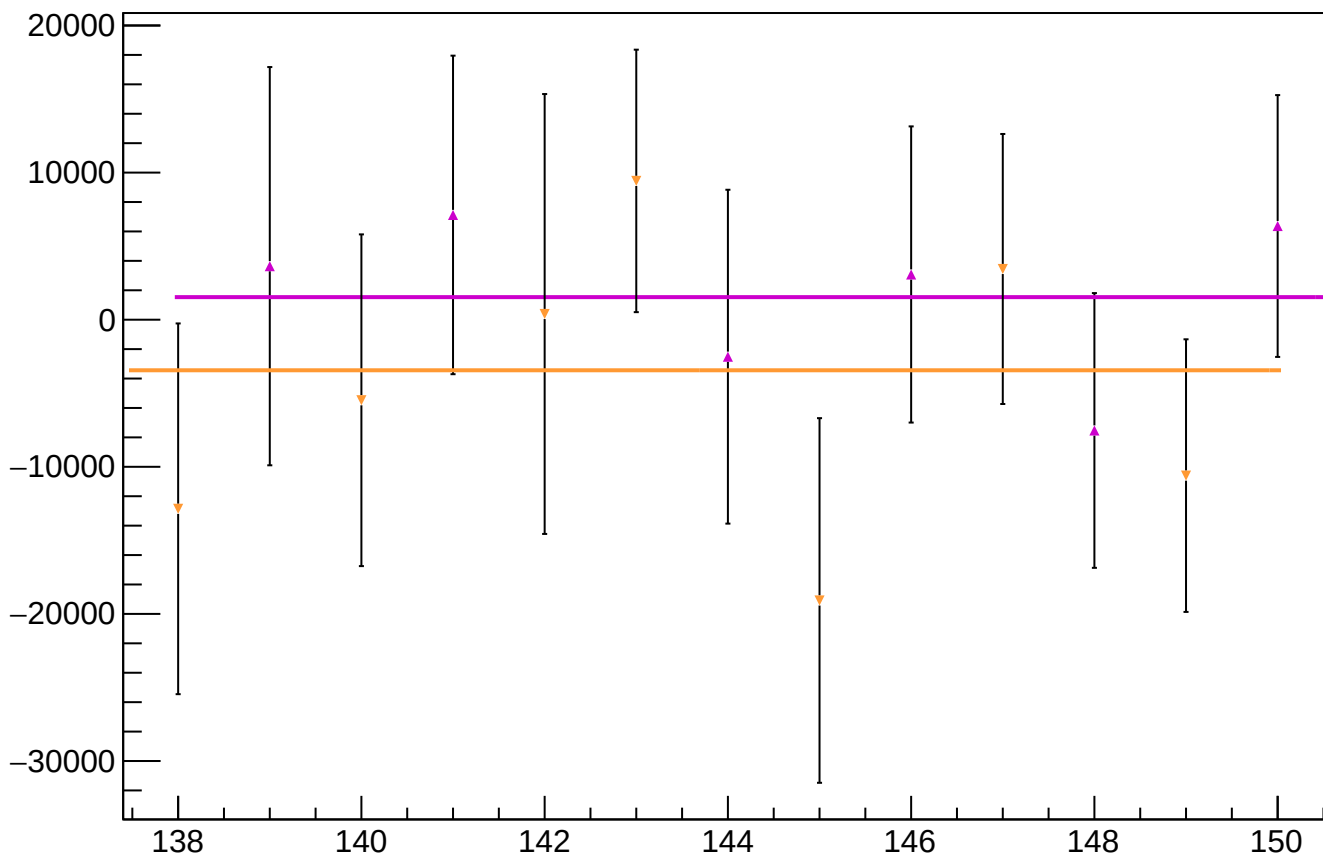
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8838.989+/-2.845  $\chi^2/\text{NDF}$ :136037.8/5

Out: 1513.140+/-0.806  $\chi^2/\text{NDF}$ :6366273.1/6

All: 2057.789+/-0.776  $\chi^2/\text{NDF}$ : 12640731.4/12

# asym\_atl2\_mean vs Slug, Sign Corrected



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

Left Out: -3438.348+/-4041.377  $\chi^2/\text{NDF}$ :5.5/6

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

Left In: 1534.561+/-4236.590  $\chi^2/\text{NDF}$ :1.7/5

Left: -1069.101+/-2924.263  $\chi^2/\text{NDF}$ : 7.9/12

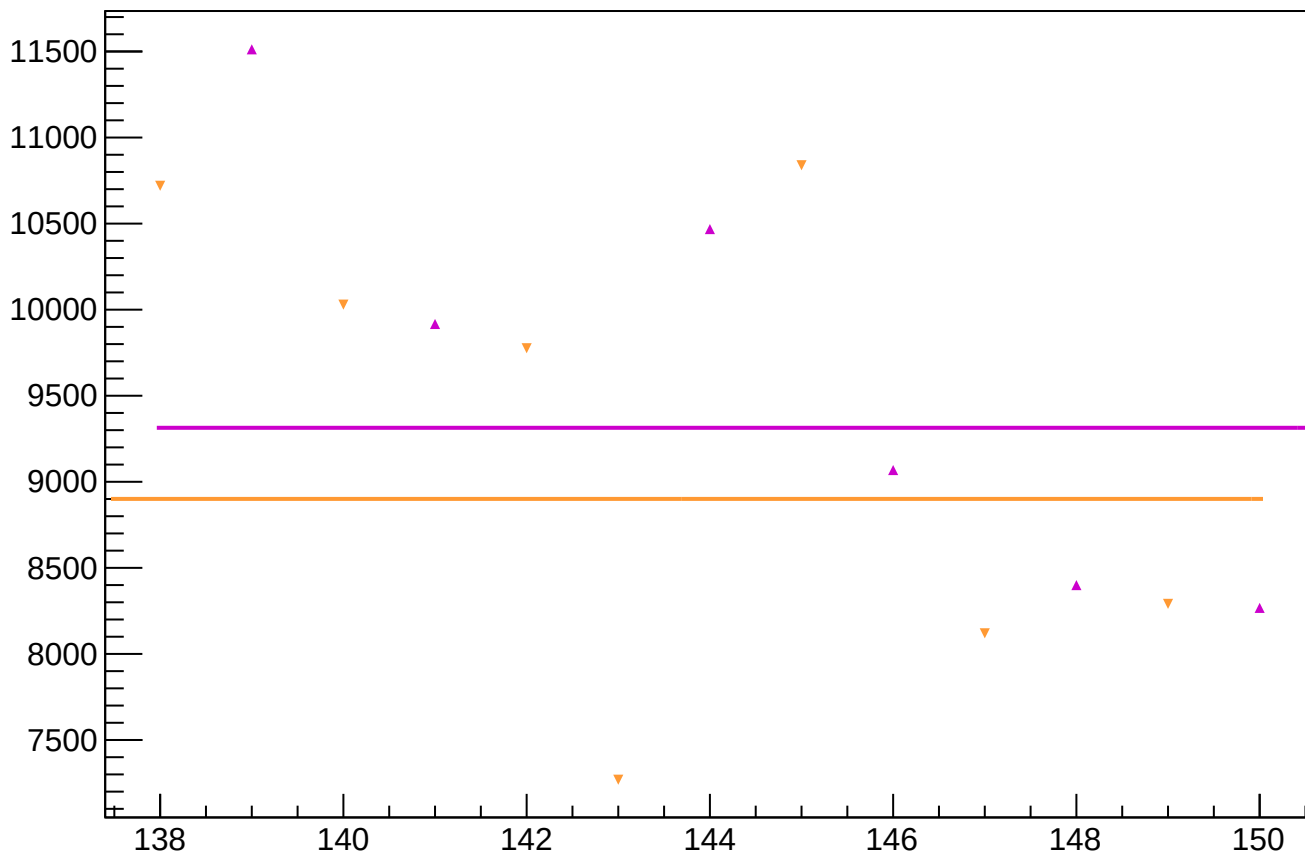
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1534.561+/-4236.590  $\chi^2/\text{NDF}$ :1.7/5

Out: -3438.348+/-4041.377  $\chi^2/\text{NDF}$ :5.5/6

All: -1069.101+/-2924.263  $\chi^2/\text{NDF}$ : 7.9/12

# asym\_atl2\_rms vs Slug, Sign Corrected



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

Left Out: 8900.634+/-2.858  $\chi^2/\text{NDF}$ :207508.8/6

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

Left In: 9313.733+/-2.996  $\chi^2/\text{NDF}$ :127658.2/5

Left: 9097.448+/-2.068  $\chi^2/\text{NDF}$ : 345122.9/12

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

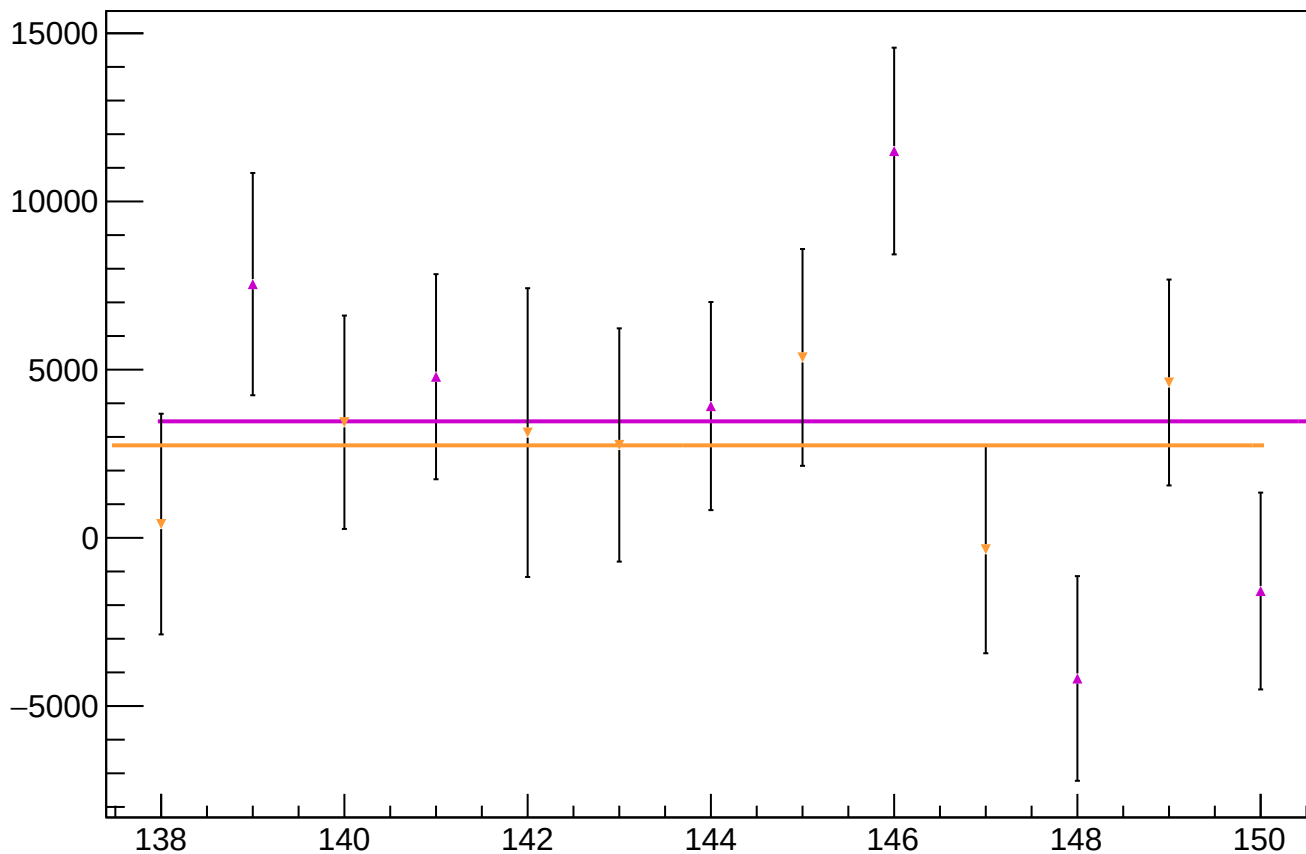
In: 9313.733+/-2.996  $\chi^2/\text{NDF}$ :127658.2/5

Out: 8900.634+/-2.858  $\chi^2/\text{NDF}$ :207508.8/6

All: 9097.448+/-2.068  $\chi^2/\text{NDF}$ : 345122.9/12



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



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

Left Out: 2749.668+/-1252.441  $\chi^2/\text{NDF}$ :2.6/6

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

Left In: 3463.386+/-1255.430  $\chi^2/\text{NDF}$ :17.9/5

Left: 3105.677+/-886.664  $\chi^2/\text{NDF}$ : 20.6/12

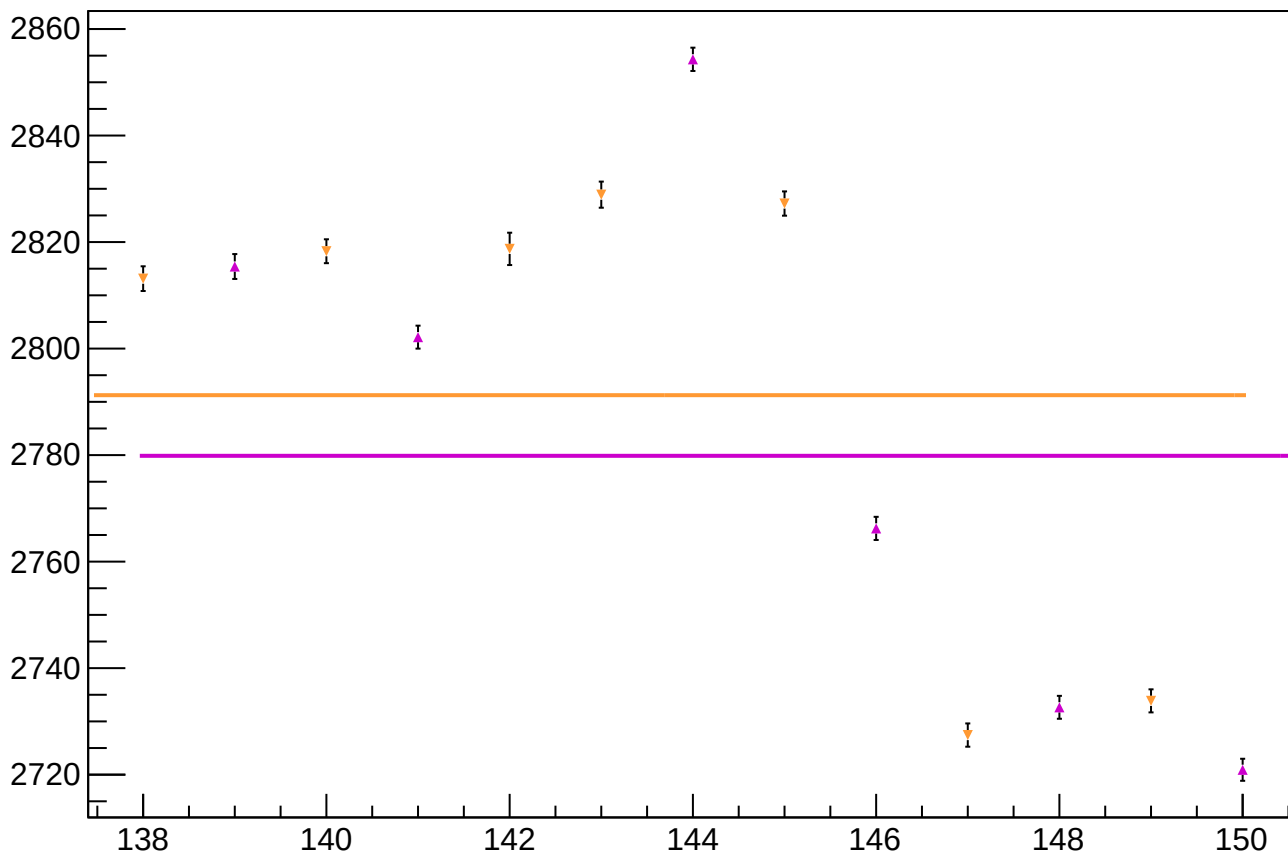
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3463.386+/-1255.430  $\chi^2/\text{NDF}$ :17.9/5

Out: 2749.668+/-1252.441  $\chi^2/\text{NDF}$ :2.6/6

All: 3105.677+/-886.664  $\chi^2/\text{NDF}$ : 20.6/12

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



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

Left Out: 2791.250+/-0.886  $\chi^2/\text{NDF}$ :2357.1/6

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

Left In: 2779.867+/-0.888  $\chi^2/\text{NDF}$ :2829.7/5

Left: 2785.572+/-0.627  $\chi^2/\text{NDF}$ : 5269.3/12

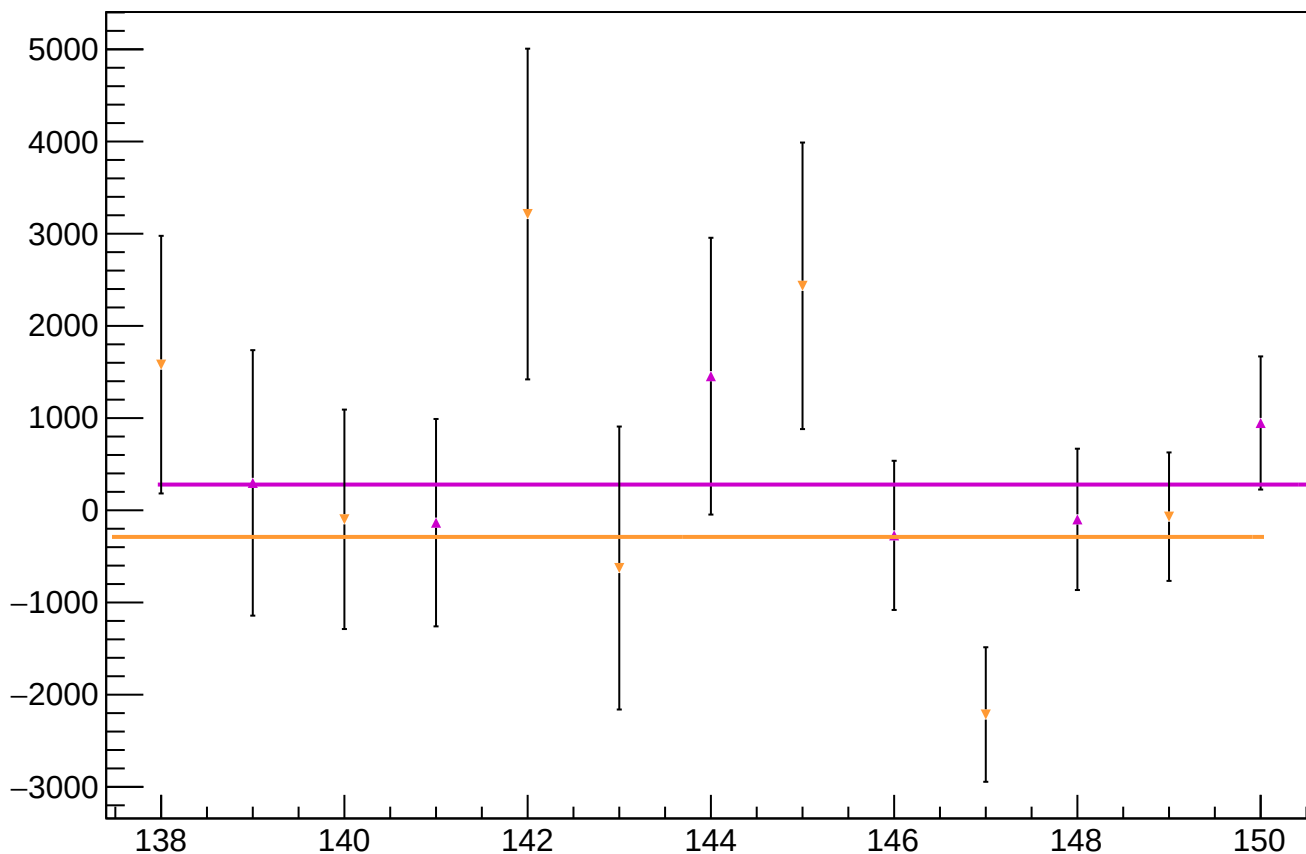
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2779.867+/-0.888  $\chi^2/\text{NDF}$ :2829.7/5

Out: 2791.250+/-0.886  $\chi^2/\text{NDF}$ :2357.1/6

All: 2785.572+/-0.627  $\chi^2/\text{NDF}$ : 5269.3/12

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



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

Left Out: -288.780+/-398.209  $\chi^2/\text{NDF}$ :15.8/6

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

Left In: 279.092+/-381.664  $\chi^2/\text{NDF}$ :2.3/5

Left: 7.198+/-275.541  $\chi^2/\text{NDF}$ : 19.2/12

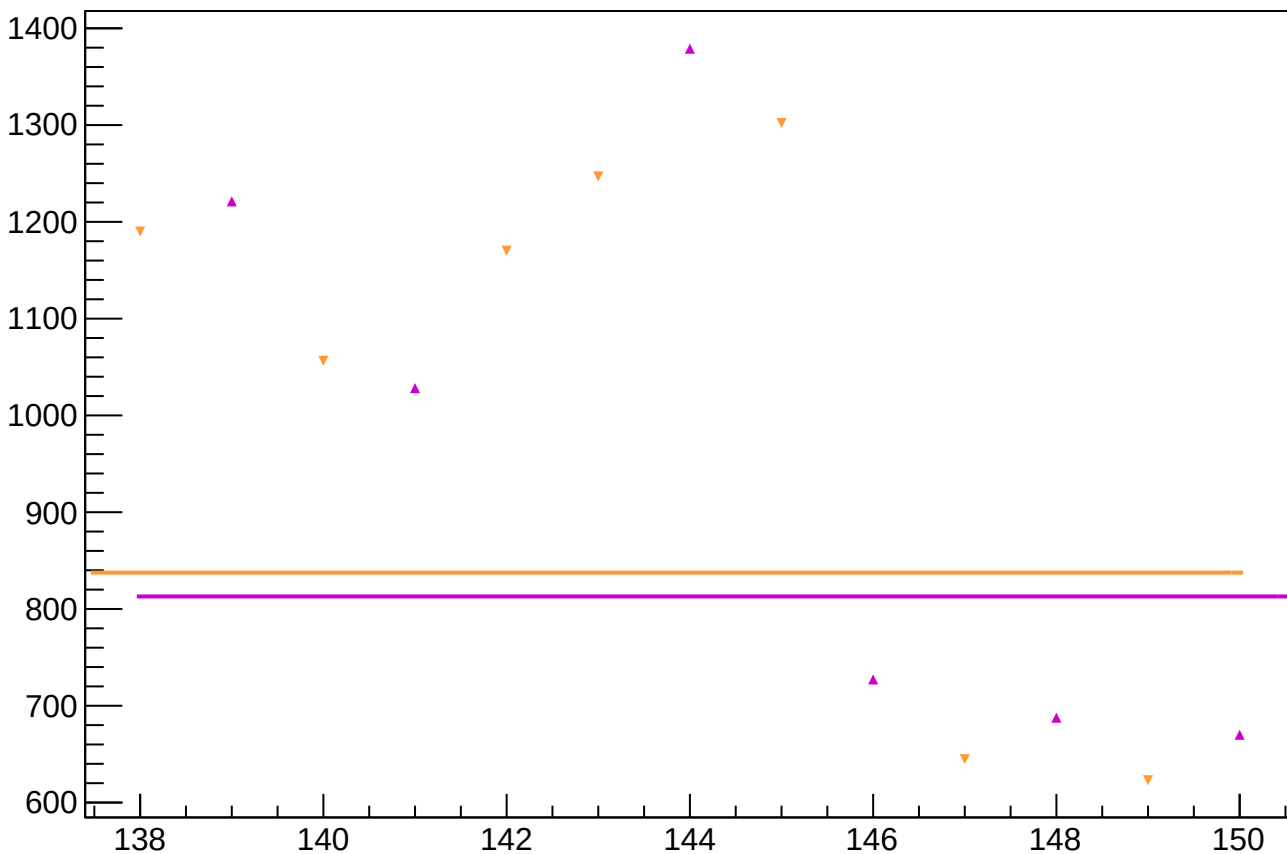
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 279.092+/-381.664  $\chi^2/\text{NDF}$ :2.3/5

Out: -288.780+/-398.209  $\chi^2/\text{NDF}$ :15.8/6

All: 7.198+/-275.541  $\chi^2/\text{NDF}$ : 19.2/12

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



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

Left Out: 837.615+/-0.282  $\chi^2/\text{NDF}$ :914038.1/6

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

Left In: 812.947+/-0.270  $\chi^2/\text{NDF}$ :672565.9/5

Left: 824.758+/-0.195  $\chi^2/\text{NDF}$ : 1590603.9/12

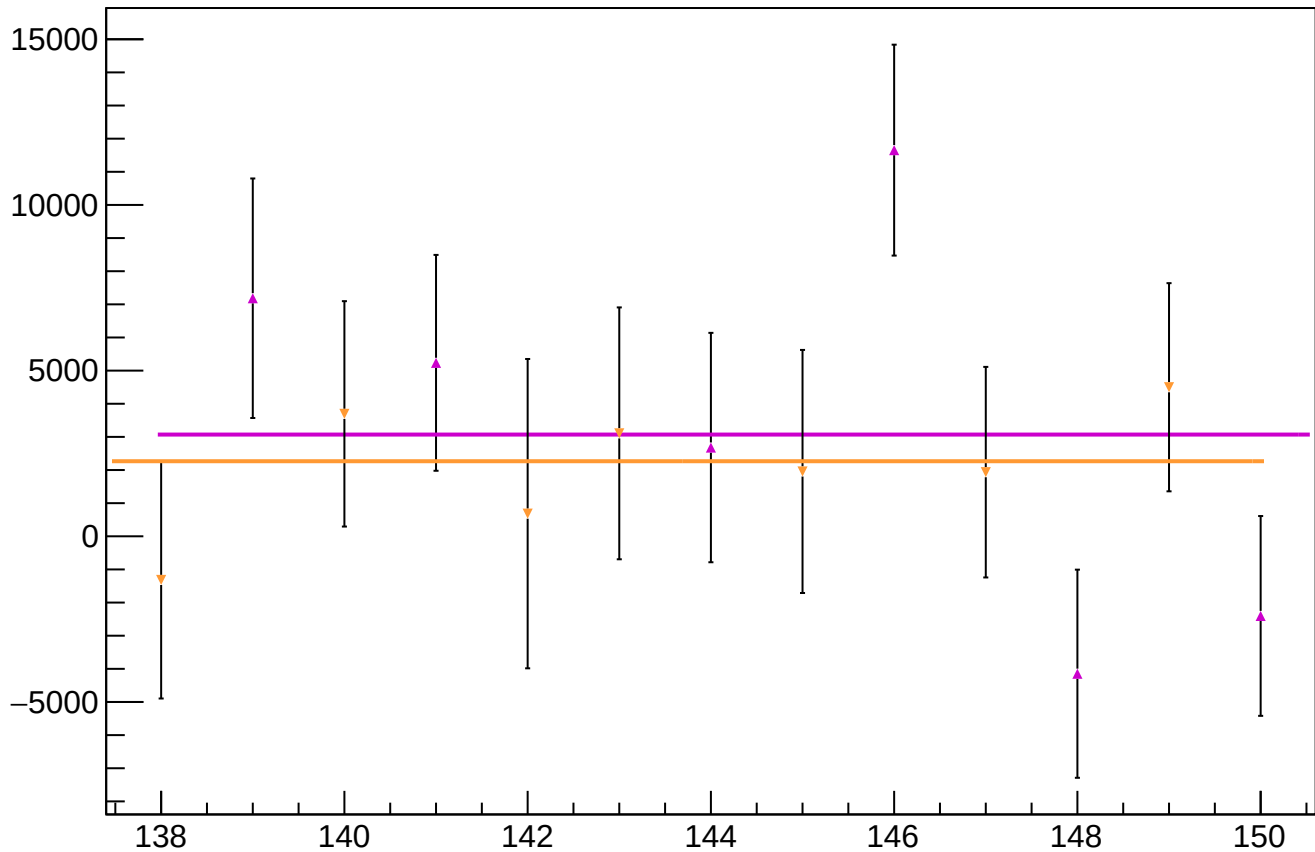
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 812.947+/-0.270  $\chi^2/\text{NDF}$ :672565.9/5

Out: 837.615+/-0.282  $\chi^2/\text{NDF}$ :914038.1/6

All: 824.758+/-0.195  $\chi^2/\text{NDF}$ : 1590603.9/12

# asym\_atr1\_mean vs Slug, Sign Corrected



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

Left Out: 2265.599+/-1343.016  $\chi^2/\text{NDF}$ :1.9/6

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

Left In: 3070.056+/-1331.114  $\chi^2/\text{NDF}$ :17.6/5

Left: 2671.408+/-945.420  $\chi^2/\text{NDF}$ : 19.6/12

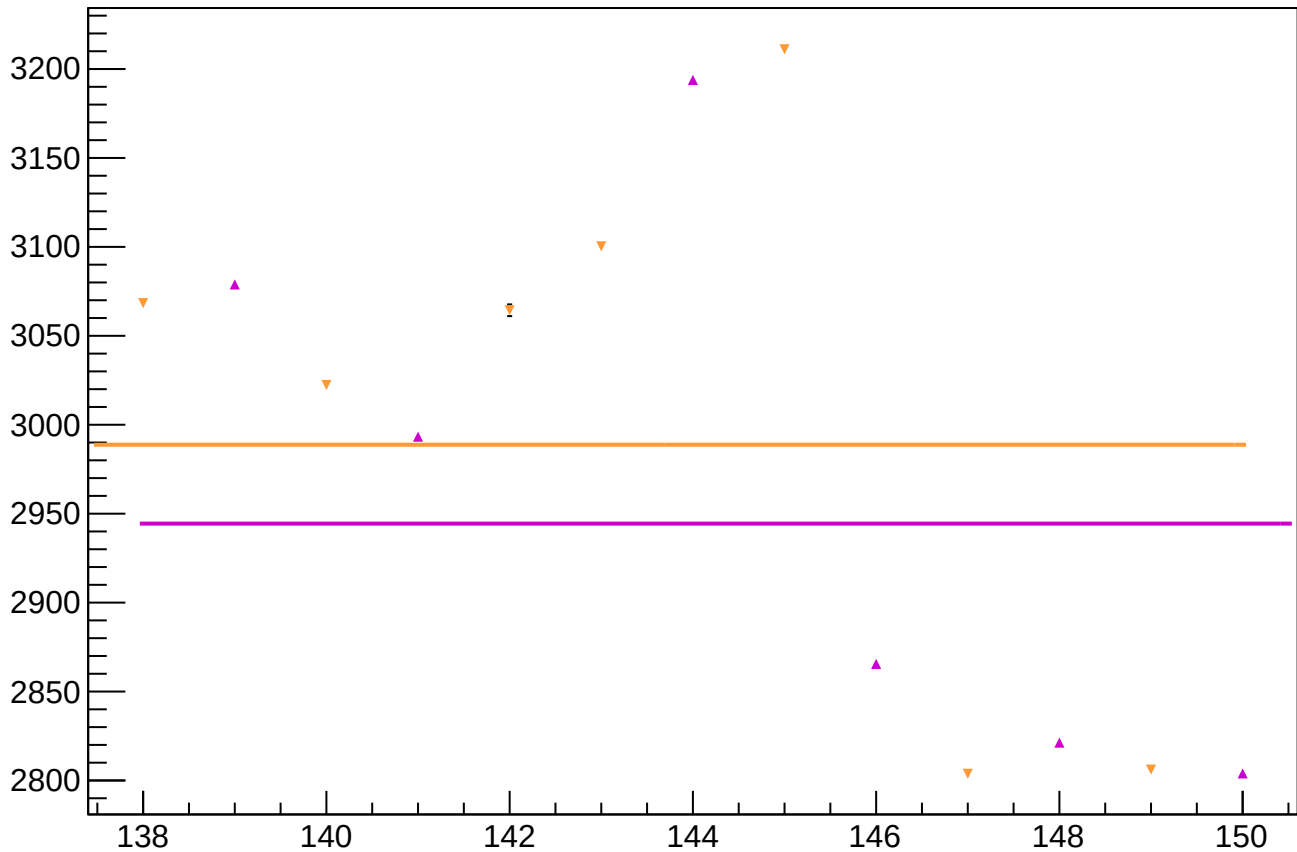
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3070.056+/-1331.114  $\chi^2/\text{NDF}$ :17.6/5

Out: 2265.599+/-1343.016  $\chi^2/\text{NDF}$ :1.9/6

All: 2671.408+/-945.420  $\chi^2/\text{NDF}$ : 19.6/12

# asym\_atr1\_rms vs Slug, Sign Corrected



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

Left Out: 2988.765+/-0.950  $\chi^2/\text{NDF}$ :24326.7/6

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

Left In: 2944.425+/-0.941  $\chi^2/\text{NDF}$ :22248.4/5

Left: 2966.398+/-0.669  $\chi^2/\text{NDF}$ : 47674.8/12

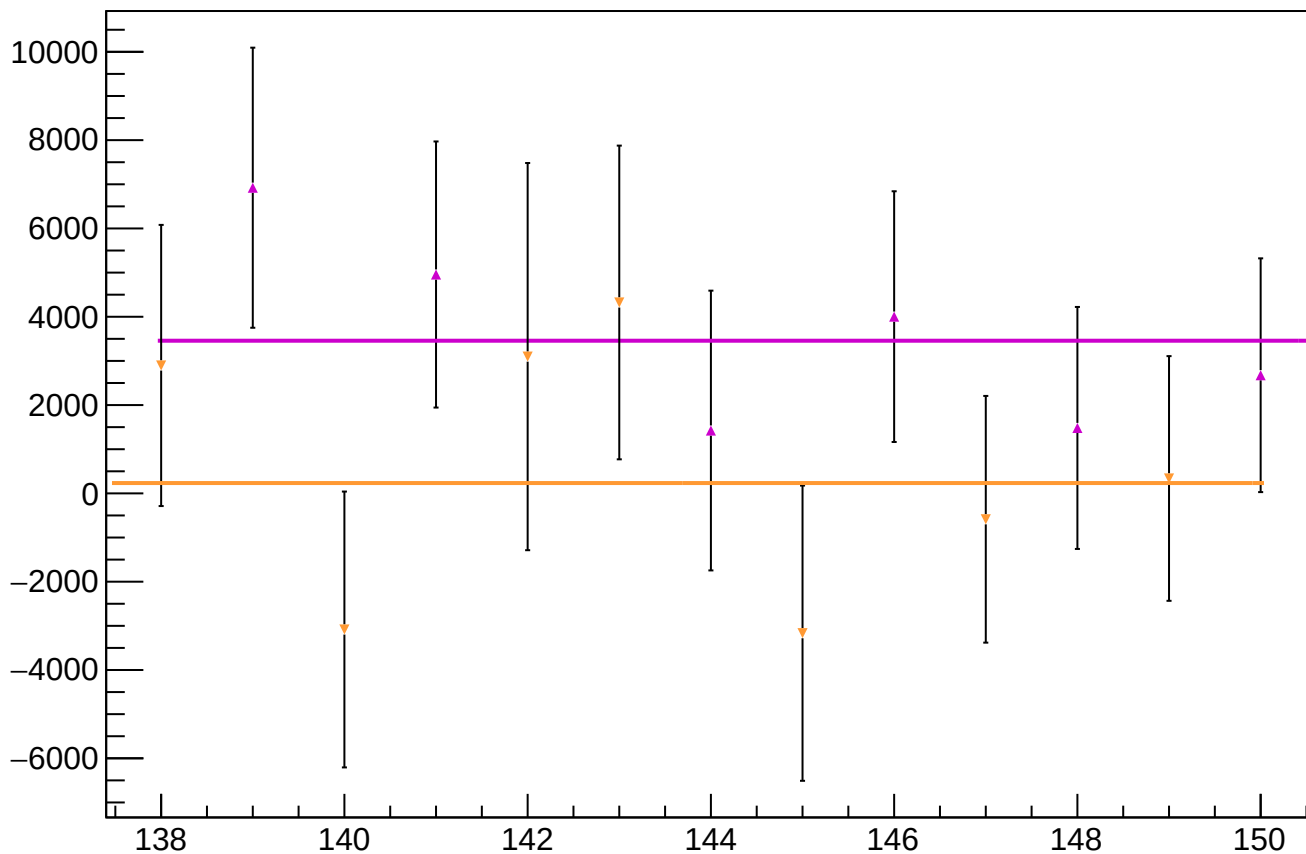
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2944.425+/-0.941  $\chi^2/\text{NDF}$ :22248.4/5

Out: 2988.765+/-0.950  $\chi^2/\text{NDF}$ :24326.7/6

All: 2966.398+/-0.669  $\chi^2/\text{NDF}$ : 47674.8/12

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



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

Left Out: 234.004+/-1212.500  $\chi^2/\text{NDF}$ : 4.7/6

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

Left In: 3457.389+/-1187.519  $\chi^2/\text{NDF}$ : 2.5/5

Left: 1879.244+/-848.397  $\chi^2/\text{NDF}$ : 10.8/12

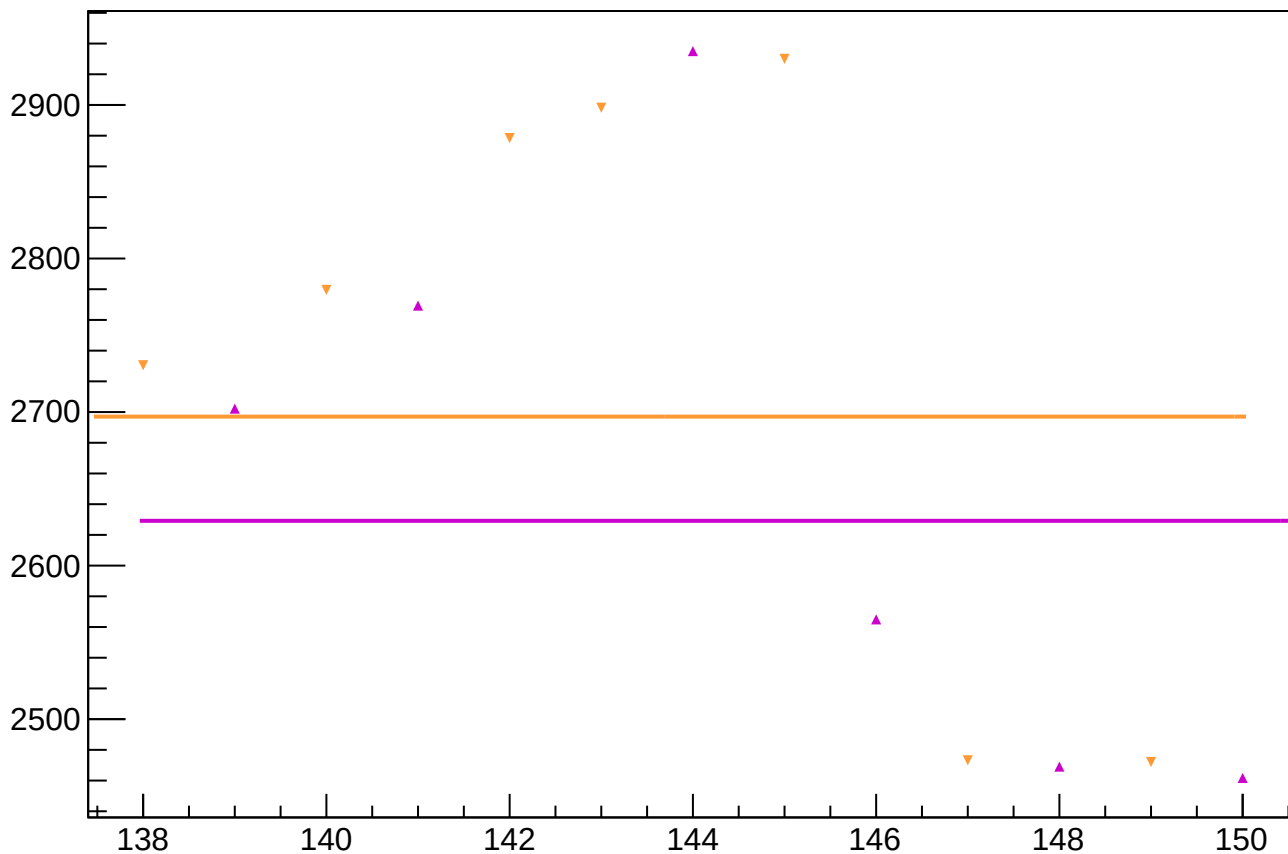
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3457.389+/-1187.519  $\chi^2/\text{NDF}$ : 2.5/5

Out: 234.004+/-1212.500  $\chi^2/\text{NDF}$ : 4.7/6

All: 1879.244+/-848.397  $\chi^2/\text{NDF}$ : 10.8/12

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



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

Left Out: 2697.038+/-0.857  $\chi^2/\text{NDF}$ : 47186.1/6

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

Left In: 2629.175+/-0.840  $\chi^2/\text{NDF}$ : 39887.0/5

Left: 2662.400+/-0.600  $\chi^2/\text{NDF}$ : 90270.9/12

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

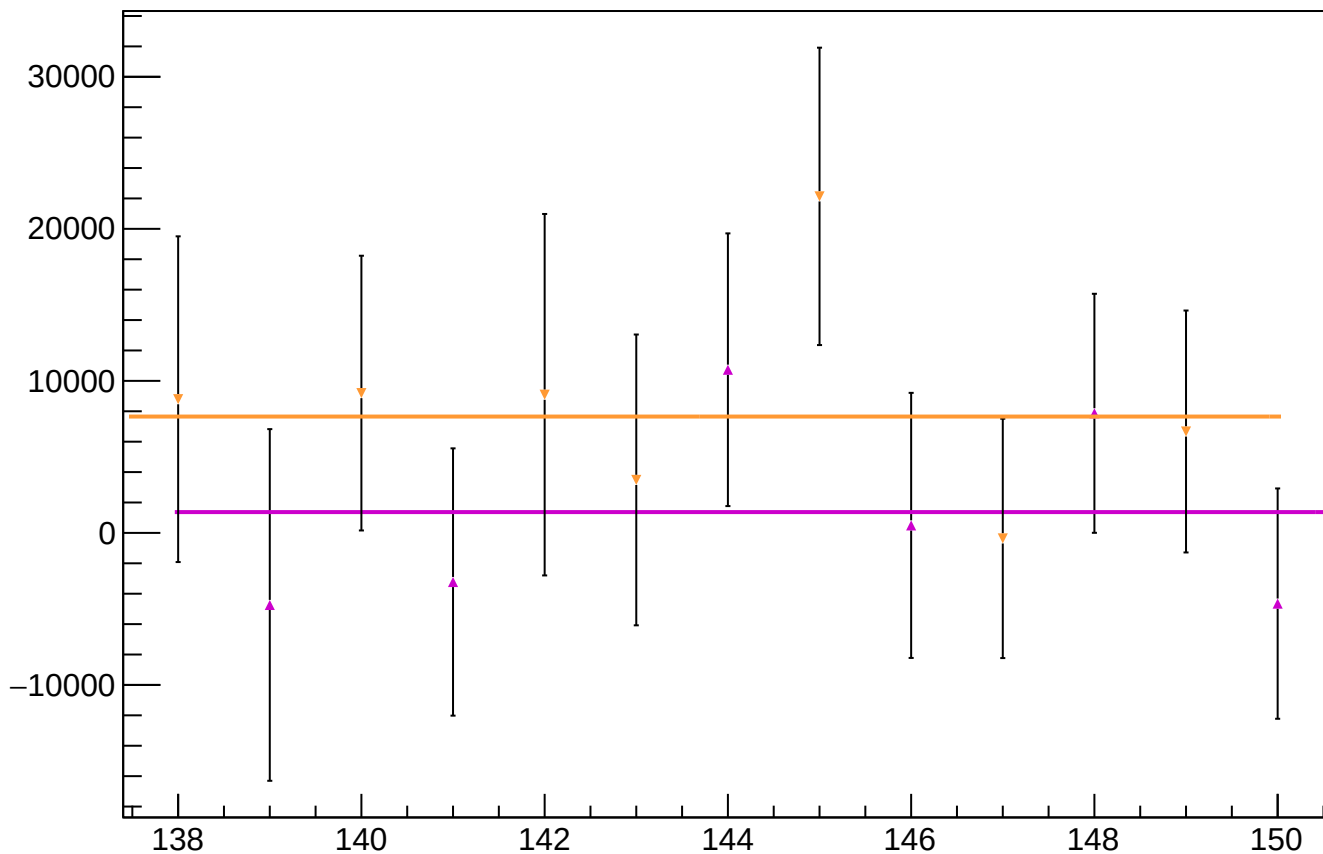
In: 2629.175+/-0.840  $\chi^2/\text{NDF}$ : 39887.0/5

Out: 2697.038+/-0.857  $\chi^2/\text{NDF}$ : 47186.1/6

All: 2662.400+/-0.600  $\chi^2/\text{NDF}$ : 90270.9/12



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



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

Left Out: 7652.953+/-3505.904  $\chi^2/\text{NDF}$ :3.5/6

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

Left In: 1368.633+/-3544.154  $\chi^2/\text{NDF}$ :3.0/5

Left: 4544.887+/-2492.462  $\chi^2/\text{NDF}$ : 8.0/12

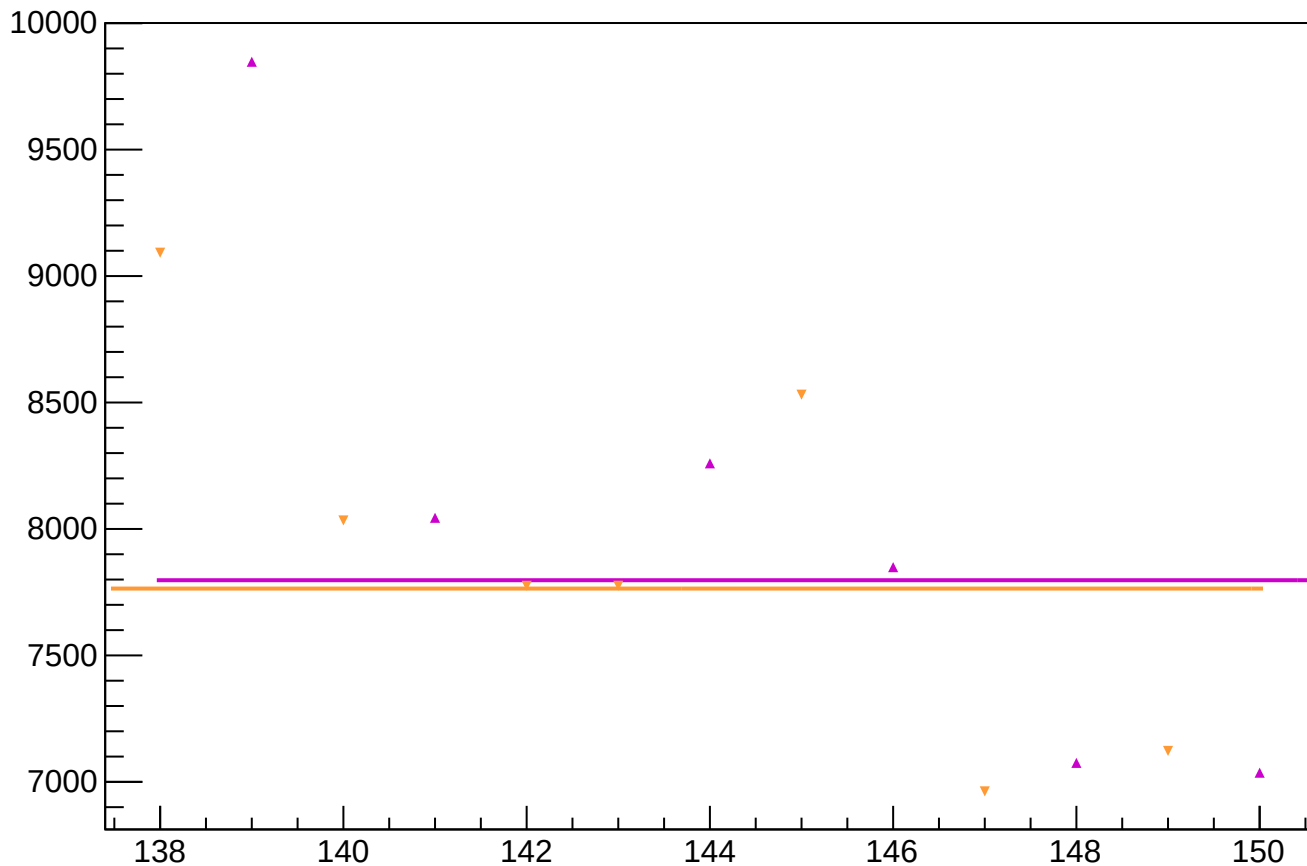
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1368.633+/-3544.154  $\chi^2/\text{NDF}$ :3.0/5

Out: 7652.953+/-3505.904  $\chi^2/\text{NDF}$ :3.5/6

All: 4544.887+/-2492.462  $\chi^2/\text{NDF}$ : 8.0/12

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



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

Left Out: 7764.368+/-2.479  $\chi^2/\text{NDF}$ : 78583.3/6

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

Left In: 7797.332+/-2.506  $\chi^2/\text{NDF}$ : 106854.7/5

Left: 7780.671+/-1.762  $\chi^2/\text{NDF}$ : 185525.4/12

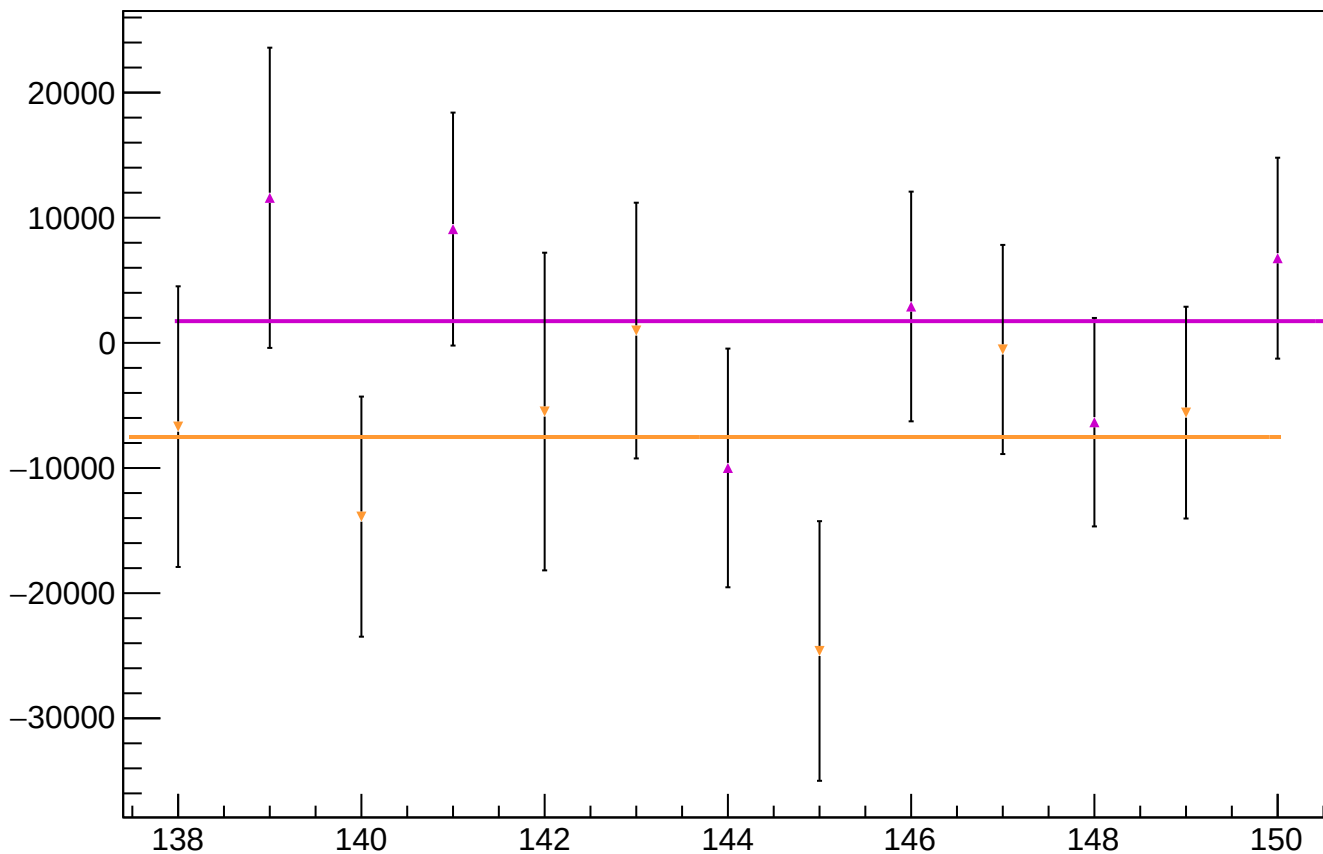
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 7797.332+/-2.506  $\chi^2/\text{NDF}$ : 106854.7/5

Out: 7764.368+/-2.479  $\chi^2/\text{NDF}$ : 78583.3/6

All: 7780.671+/-1.762  $\chi^2/\text{NDF}$ : 185525.4/12

# asym\_atr2\_mean vs Slug, Sign Corrected



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

Left Out: -7521.467+/-3722.046  $\chi^2/\text{NDF}$ : 4.6/6

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

Left In: 1737.100+/-3745.359  $\chi^2/\text{NDF}$ : 4.2/5

Left: -2921.088+/-2640.088  $\chi^2/\text{NDF}$ : 11.9/12

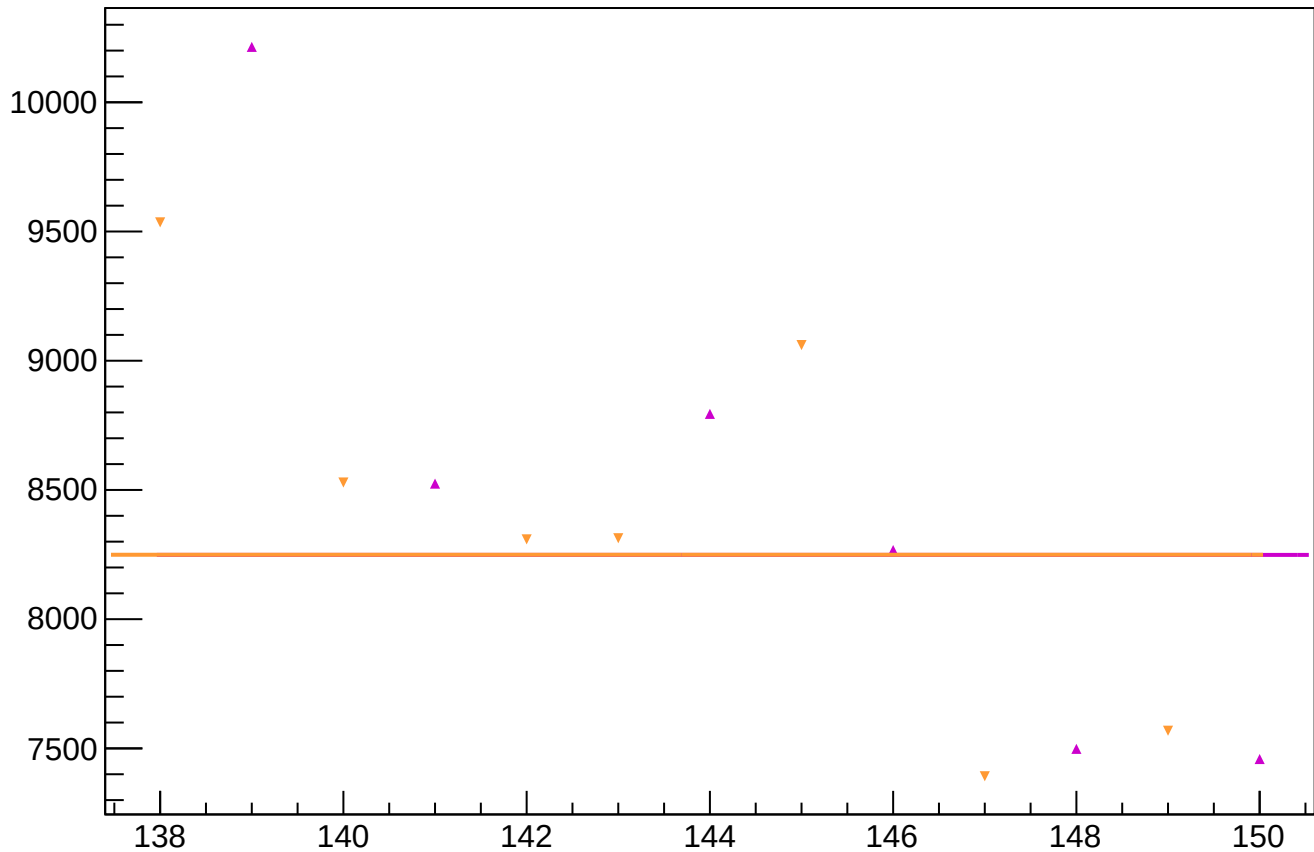
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1737.100+/-3745.359  $\chi^2/\text{NDF}$ : 4.2/5

Out: -7521.467+/-3722.046  $\chi^2/\text{NDF}$ : 4.6/6

All: -2921.088+/-2640.088  $\chi^2/\text{NDF}$ : 11.9/12

# asym\_atr2\_rms vs Slug, Sign Corrected



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

Left Out: 8249.272+/-2.632  $\chi^2/\text{NDF}$ : 74352.2/6

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

Left In: 8248.683+/-2.648  $\chi^2/\text{NDF}$ : 97604.2/5

Left: 8248.979+/-1.867  $\chi^2/\text{NDF}$ : 171956.5/12

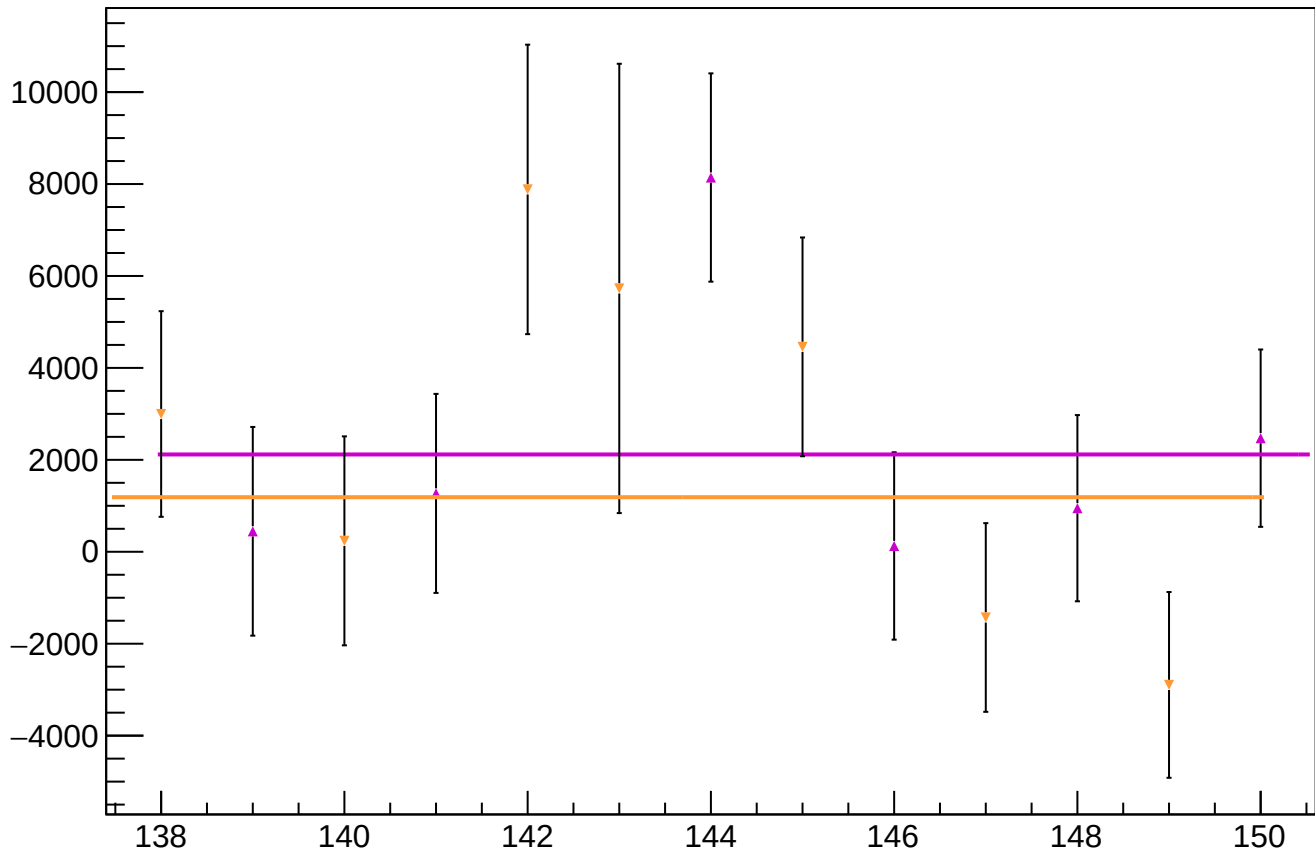
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8248.683+/-2.648  $\chi^2/\text{NDF}$ : 97604.2/5

Out: 8249.272+/-2.632  $\chi^2/\text{NDF}$ : 74352.2/6

All: 8248.979+/-1.867  $\chi^2/\text{NDF}$ : 171956.5/12

reg\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1187.231+/-914.789  $\chi^2/\text{NDF}$ :13.8/6

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

Left In: 2116.940+/-858.940  $\chi^2/\text{NDF}$ :9.1/5

Left: 1681.330+/-626.176  $\chi^2/\text{NDF}$ : 23.4/12

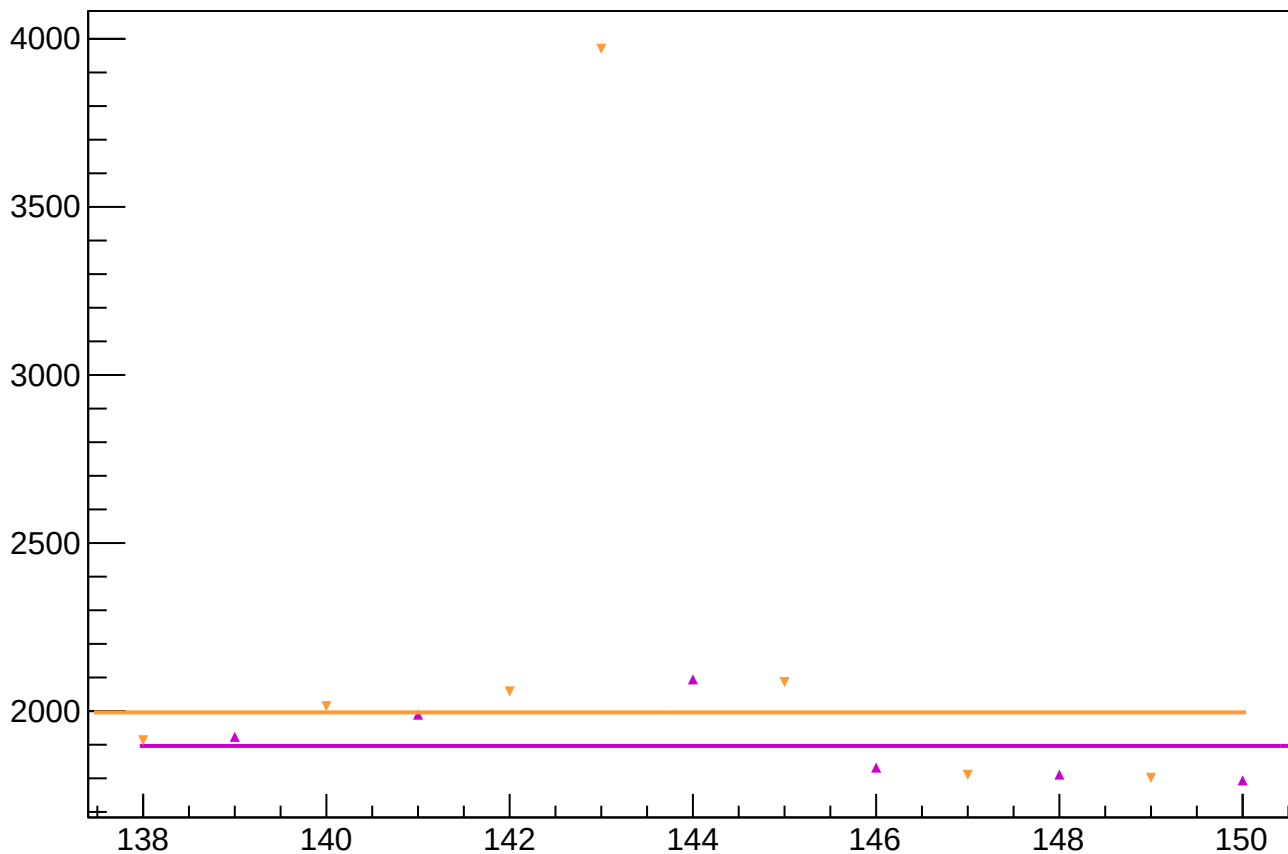
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2116.940+/-858.940  $\chi^2/\text{NDF}$ :9.1/5

Out: 1187.231+/-914.789  $\chi^2/\text{NDF}$ :13.8/6

All: 1681.330+/-626.176  $\chi^2/\text{NDF}$ : 23.4/12

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



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

Left Out: 1996.189+/-0.647  $\chi^2/\text{NDF}$ :367813.5/6

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

Left In: 1896.361+/-0.607  $\chi^2/\text{NDF}$ :30435.5/5

Left: 1943.135+/-0.443  $\chi^2/\text{NDF}$ : 410906.7/12

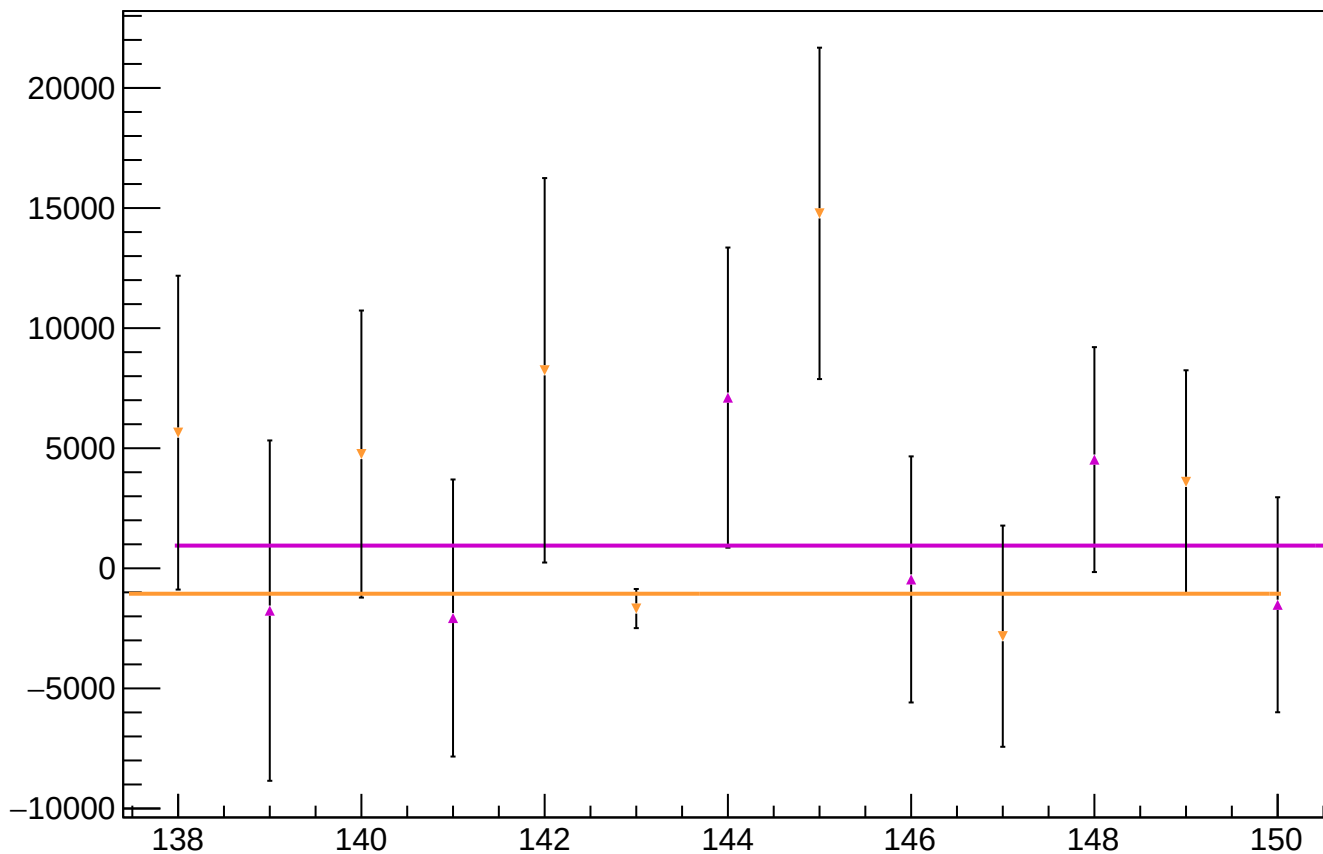
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1896.361+/-0.607  $\chi^2/\text{NDF}$ :30435.5/5

Out: 1996.189+/-0.647  $\chi^2/\text{NDF}$ :367813.5/6

All: 1943.135+/-0.443  $\chi^2/\text{NDF}$ : 410906.7/12

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



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

Left Out: -1057.919+/-769.654  $\chi^2/\text{NDF}$ :10.3/6

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

Left In: 946.026+/-2186.290  $\chi^2/\text{NDF}$ :2.4/5

Left: -836.955+/-725.982  $\chi^2/\text{NDF}$ : 13.4/12

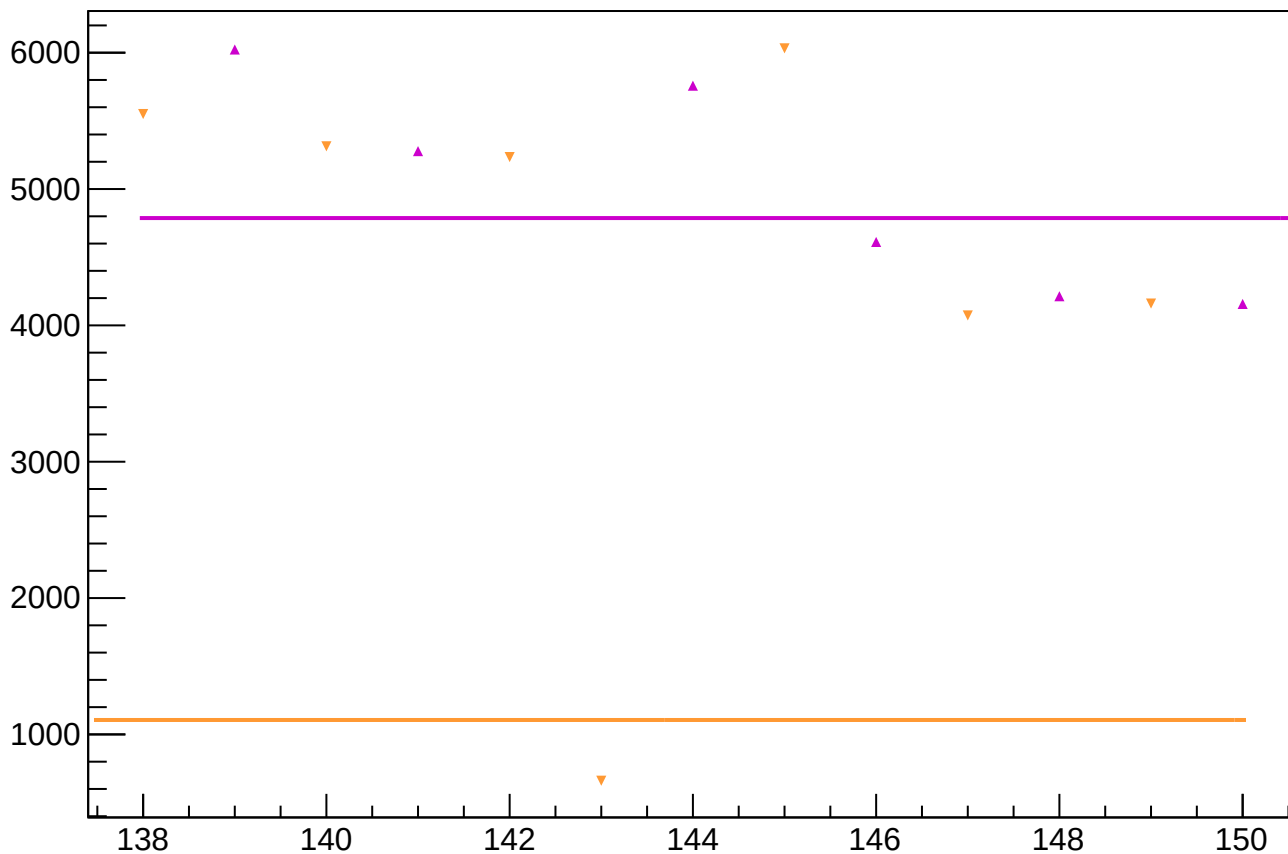
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 946.026+/-2186.290  $\chi^2/\text{NDF}$ :2.4/5

Out: -1057.919+/-769.654  $\chi^2/\text{NDF}$ :10.3/6

All: -836.955+/-725.982  $\chi^2/\text{NDF}$ : 13.4/12

asym\_atl\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 1105.881+/-0.544  $\chi^2$ /NDF:5760756.1/6

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

Left In: 4787.118+/-1.546  $\chi^2$ /NDF:195600.2/5

Left: 1511.791+/-0.513  $\chi^2$ /NDF: 11001376.3/12

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

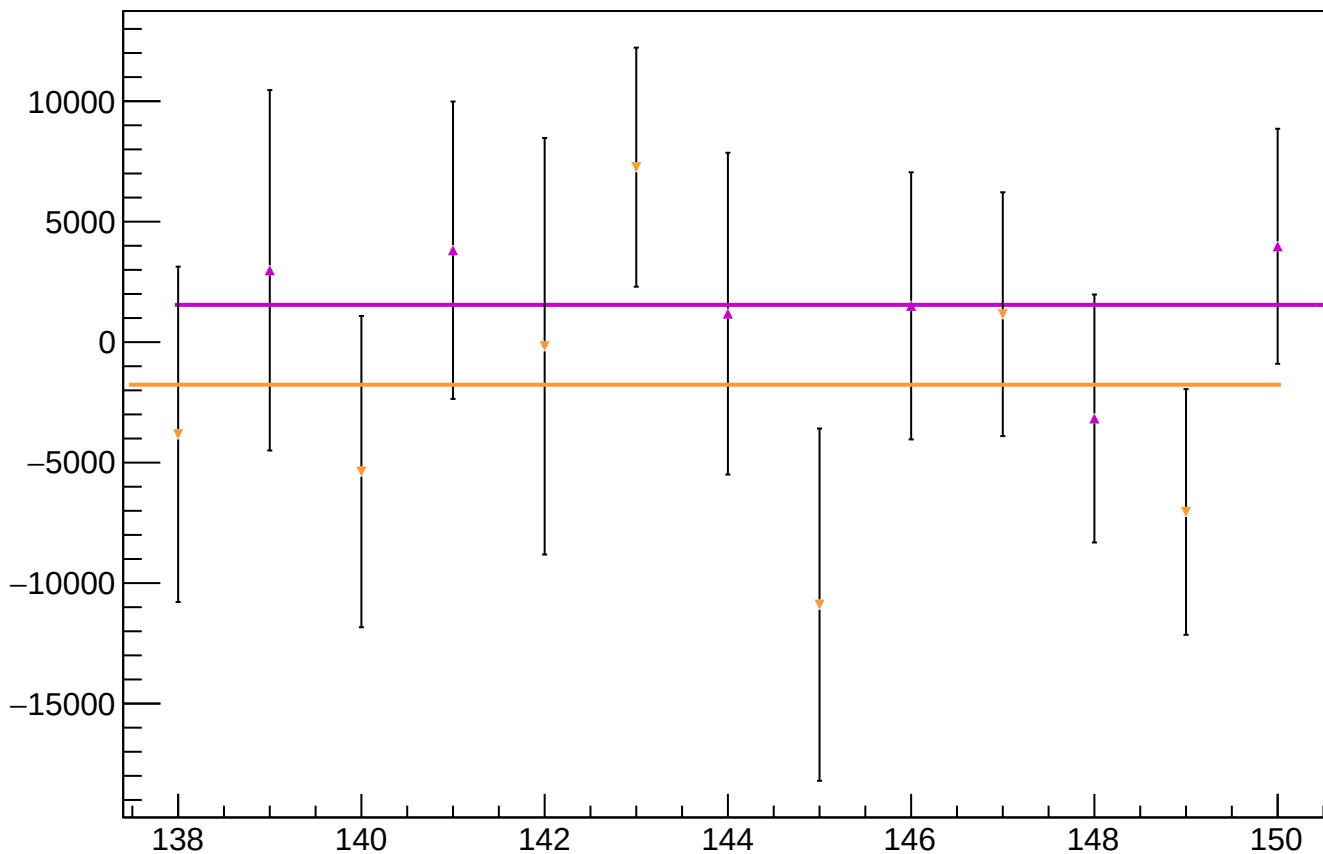
In: 4787.118+/-1.546  $\chi^2$ /NDF:195600.2/5

Out: 1105.881+/-0.544  $\chi^2$ /NDF:5760756.1/6

All: 1511.791+/-0.513  $\chi^2$ /NDF: 11001376.3/12



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



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

Left Out: -1767.845+/-2265.319  $\chi^2/\text{NDF}$ :6.7/6

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

Left In: 1546.646+/-2364.334  $\chi^2/\text{NDF}$ :1.3/5

Left: -181.454+/-1635.707  $\chi^2/\text{NDF}$ : 9.0/12

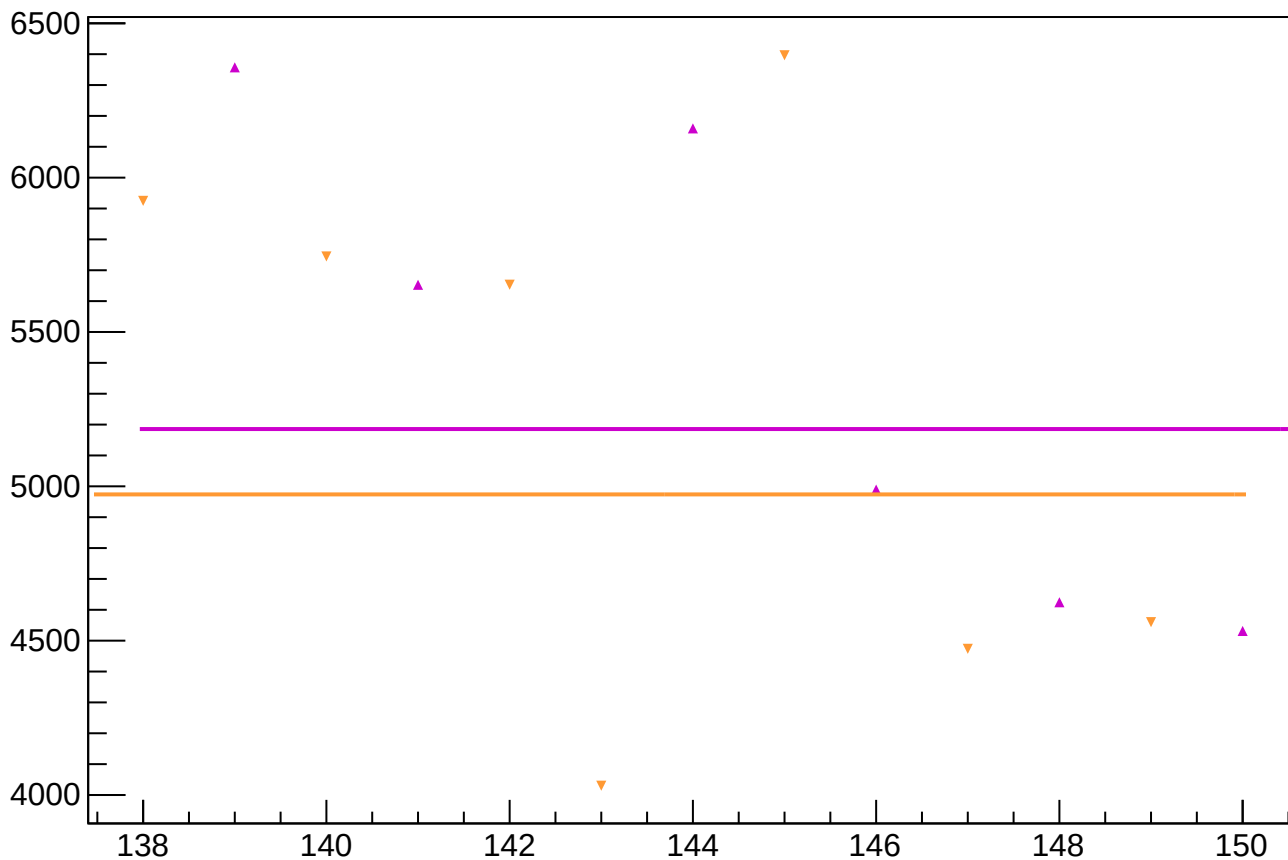
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1546.646+/-2364.334  $\chi^2/\text{NDF}$ :1.3/5

Out: -1767.845+/-2265.319  $\chi^2/\text{NDF}$ :6.7/6

All: -181.454+/-1635.707  $\chi^2/\text{NDF}$ : 9.0/12

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



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

Left Out: 4973.821+/-1.602  $\chi^2/\text{NDF}$ :259025.0/6

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

Left In: 5185.569+/-1.672  $\chi^2/\text{NDF}$ :165361.6/5

Left: 5075.168+/-1.157  $\chi^2/\text{NDF}$ : 432750.4/12

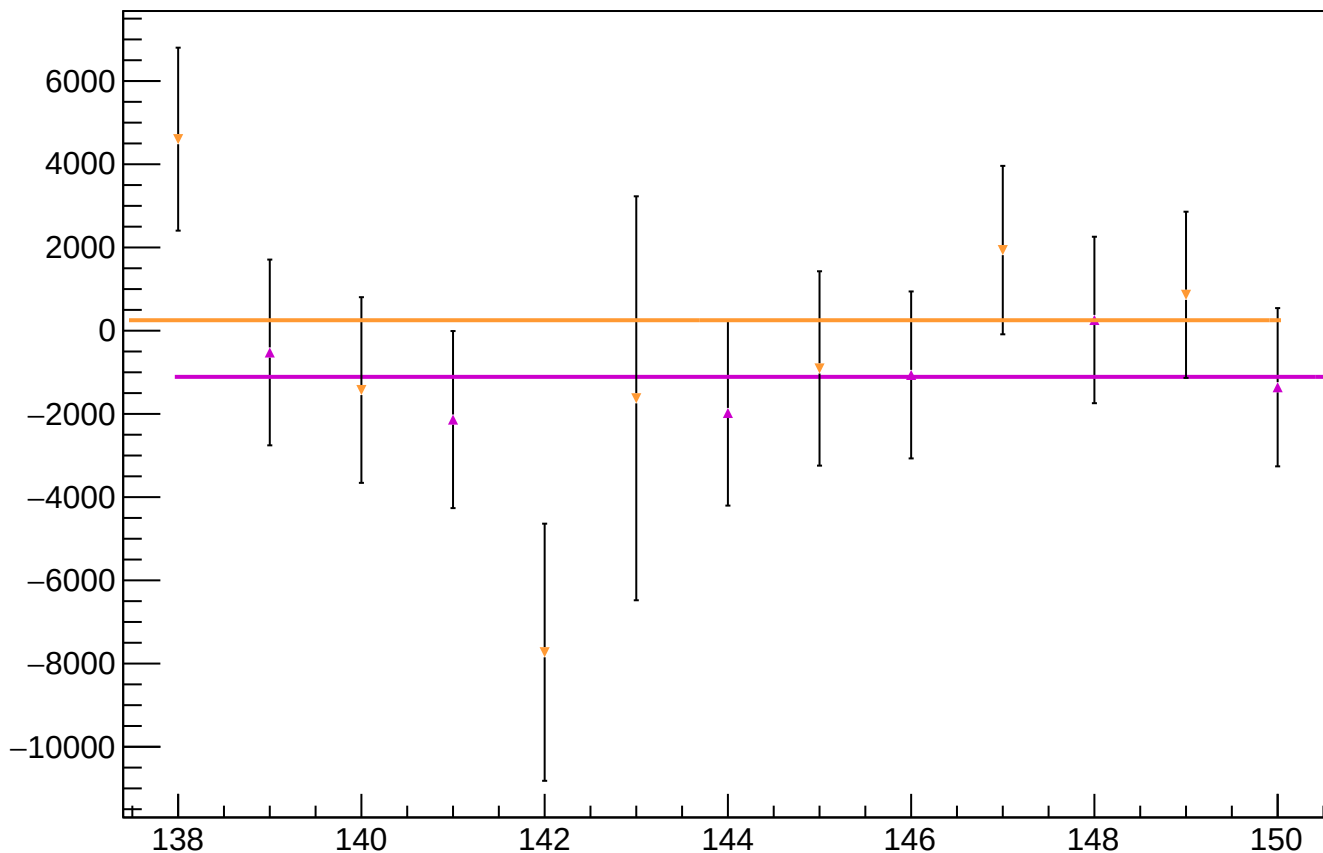
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5185.569+/-1.672  $\chi^2/\text{NDF}$ :165361.6/5

Out: 4973.821+/-1.602  $\chi^2/\text{NDF}$ :259025.0/6

All: 5075.168+/-1.157  $\chi^2/\text{NDF}$ : 432750.4/12

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



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

Left Out: 251.462+/-900.553  $\chi^2/\text{NDF}$ :12.3/6

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

Left In: -1109.423+/-845.693  $\chi^2/\text{NDF}$ :0.9/5

Left: -471.692+/-616.477  $\chi^2/\text{NDF}$ : 14.5/12

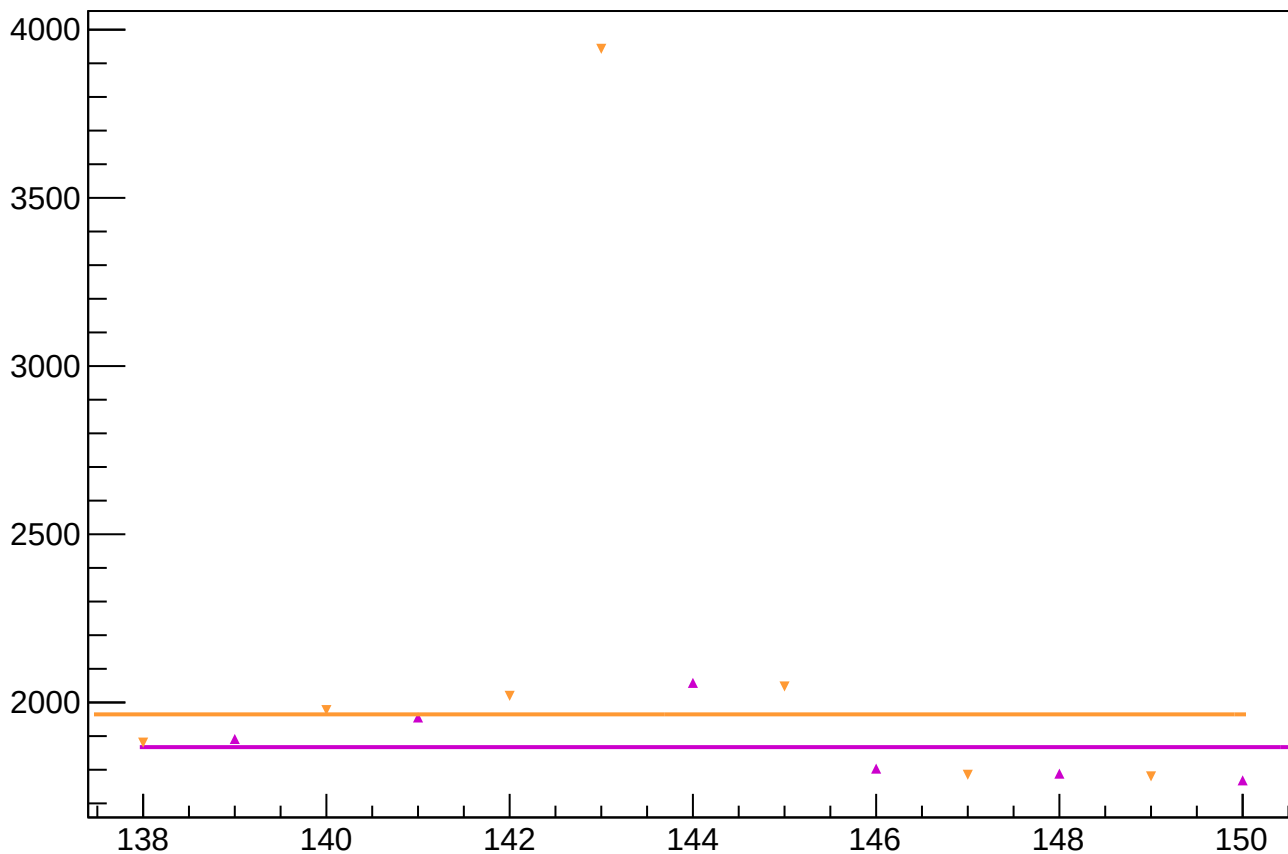
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1109.423+/-845.693  $\chi^2/\text{NDF}$ :0.9/5

Out: 251.462+/-900.553  $\chi^2/\text{NDF}$ :12.3/6

All: -471.692+/-616.477  $\chi^2/\text{NDF}$ : 14.5/12

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



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

Left Out: 1964.645+/-0.637  $\chi^2/\text{NDF}$ :371165.0/6

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

Left In: 1867.277+/-0.598  $\chi^2/\text{NDF}$ :28920.4/5

Left: 1912.905+/-0.436  $\chi^2/\text{NDF}$ : 412509.0/12

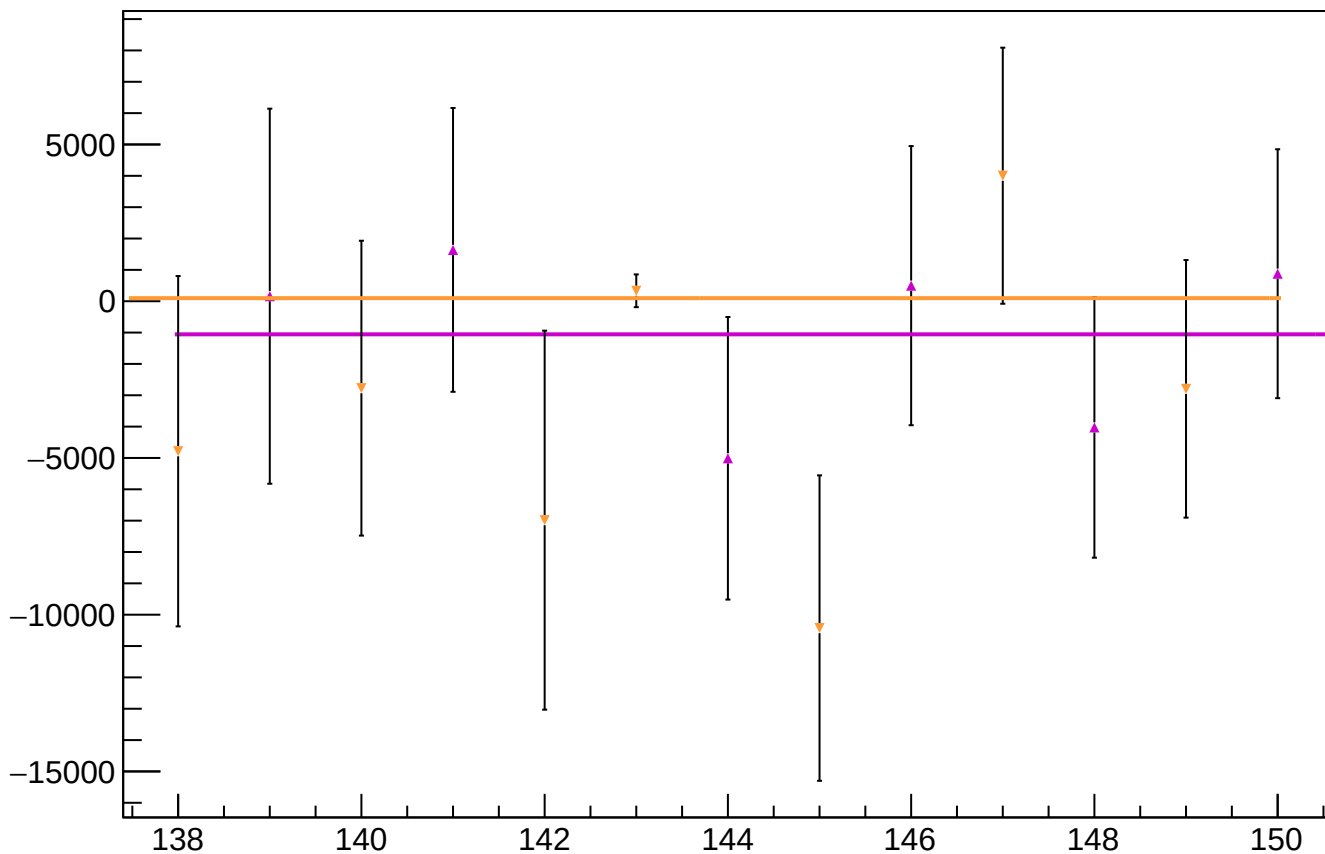
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1867.277+/-0.598  $\chi^2/\text{NDF}$ :28920.4/5

Out: 1964.645+/-0.637  $\chi^2/\text{NDF}$ :371165.0/6

All: 1912.905+/-0.436  $\chi^2/\text{NDF}$ : 412509.0/12

asym\_atl\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 97.825+/-504.486  $\chi^2/\text{NDF}$ :8.8/6

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

Left In: -1056.529+/-1832.643  $\chi^2/\text{NDF}$ :2.0/5

Left: 16.513+/-486.393  $\chi^2/\text{NDF}$ : 11.2/12

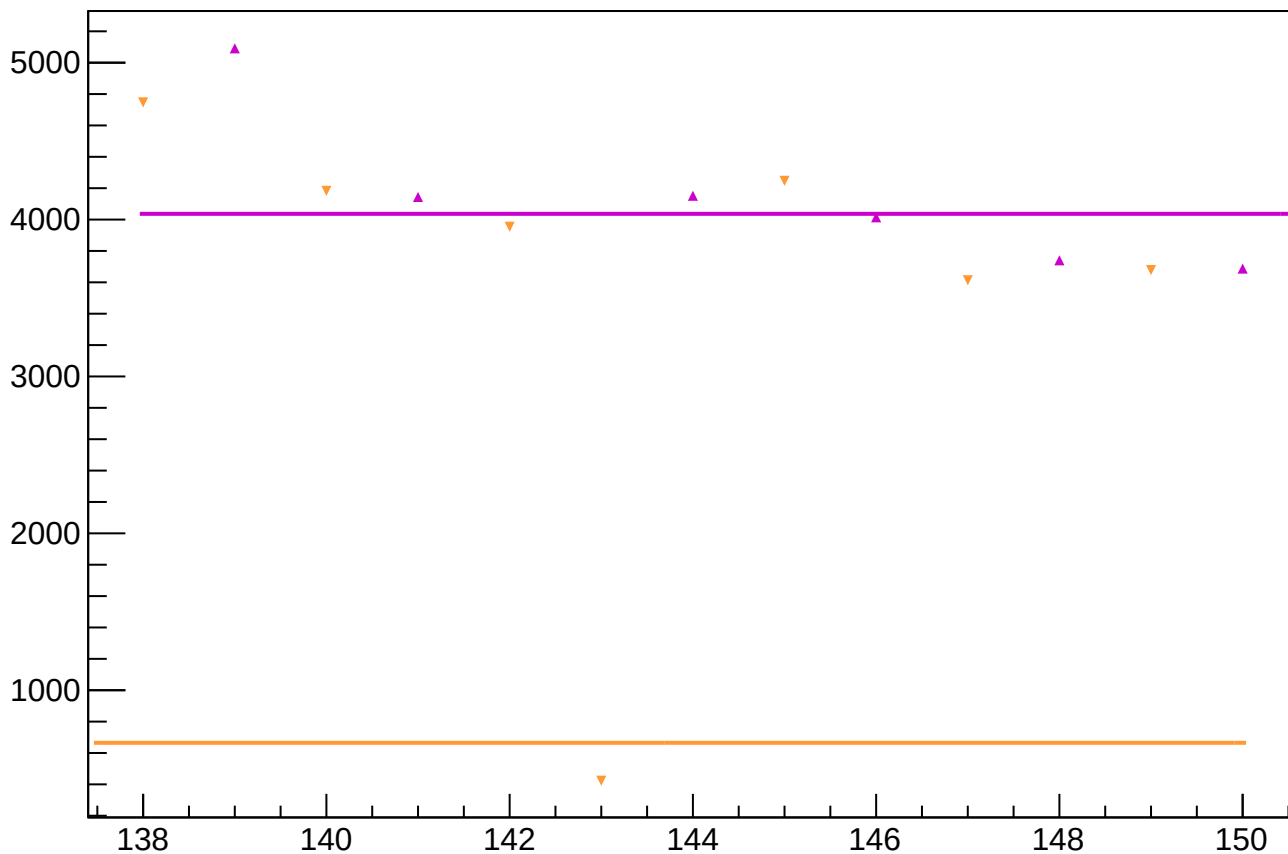
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1056.529+/-1832.643  $\chi^2/\text{NDF}$ :2.0/5

Out: 97.825+/-504.486  $\chi^2/\text{NDF}$ :8.8/6

All: 16.513+/-486.393  $\chi^2/\text{NDF}$ : 11.2/12

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



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

Left Out: 664.909+/-0.357  $\chi^2/\text{NDF}$ :6405920.2/6

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

Left In: 4036.644+/-1.296  $\chi^2/\text{NDF}$ :90270.4/5

Left: 902.414+/-0.344  $\chi^2/\text{NDF}$ : 12789203.1/12

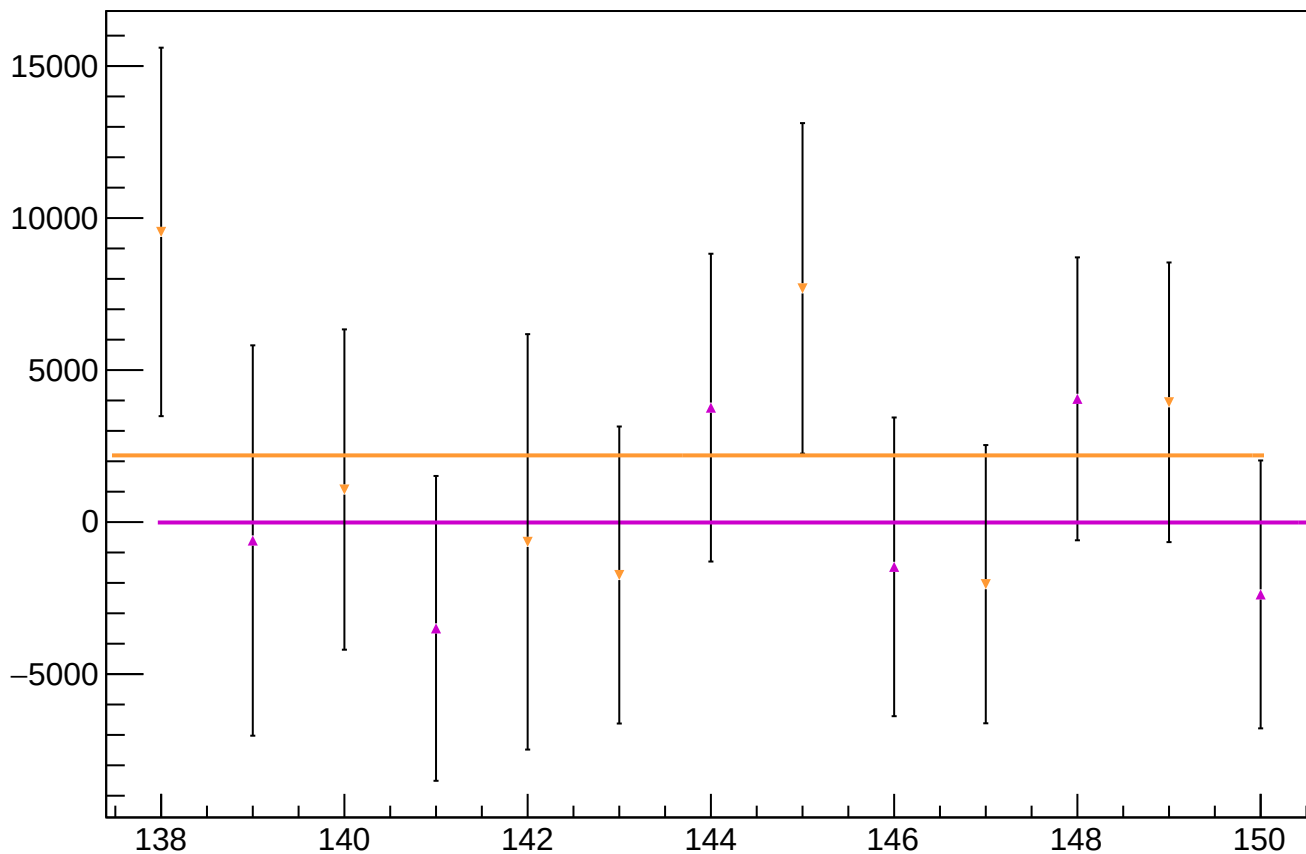
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4036.644+/-1.296  $\chi^2/\text{NDF}$ :90270.4/5

Out: 664.909+/-0.357  $\chi^2/\text{NDF}$ :6405920.2/6

All: 902.414+/-0.344  $\chi^2/\text{NDF}$ : 12789203.1/12

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



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

Left Out: 2193.970+/-1978.406  $\chi^2/\text{NDF}$ :4.4/6

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

Left In: -13.171+/-2031.839  $\chi^2/\text{NDF}$ :2.2/5

Left: 1119.802+/-1417.458  $\chi^2/\text{NDF}$ : 7.2/12

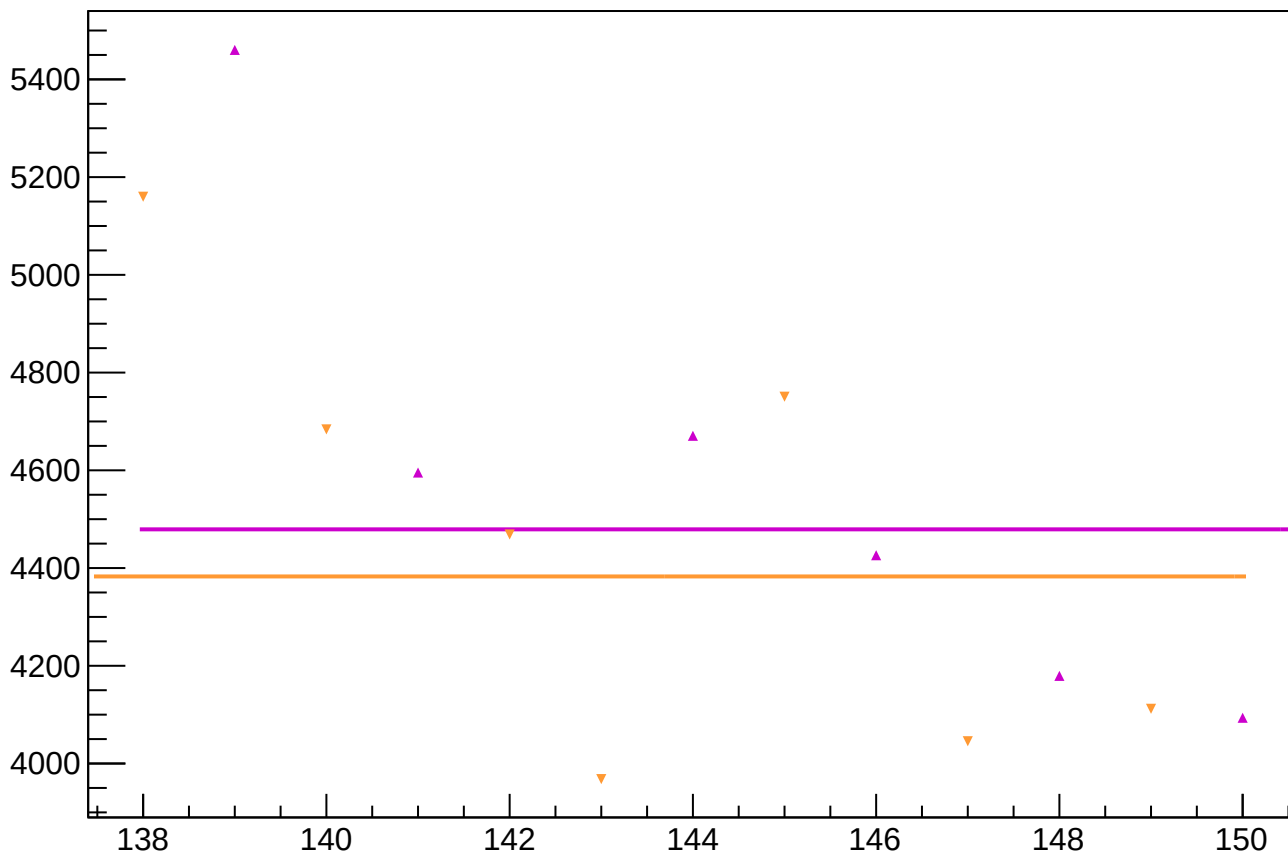
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -13.171+/-2031.839  $\chi^2/\text{NDF}$ :2.2/5

Out: 2193.970+/-1978.406  $\chi^2/\text{NDF}$ :4.4/6

All: 1119.802+/-1417.458  $\chi^2/\text{NDF}$ : 7.2/12

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



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

Left Out: 4382.818+/-1.399  $\chi^2/\text{NDF}$ :81105.6/6

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

Left In: 4479.201+/-1.437  $\chi^2/\text{NDF}$ :74505.7/5

Left: 4429.726+/-1.002  $\chi^2/\text{NDF}$ : 157921.4/12

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

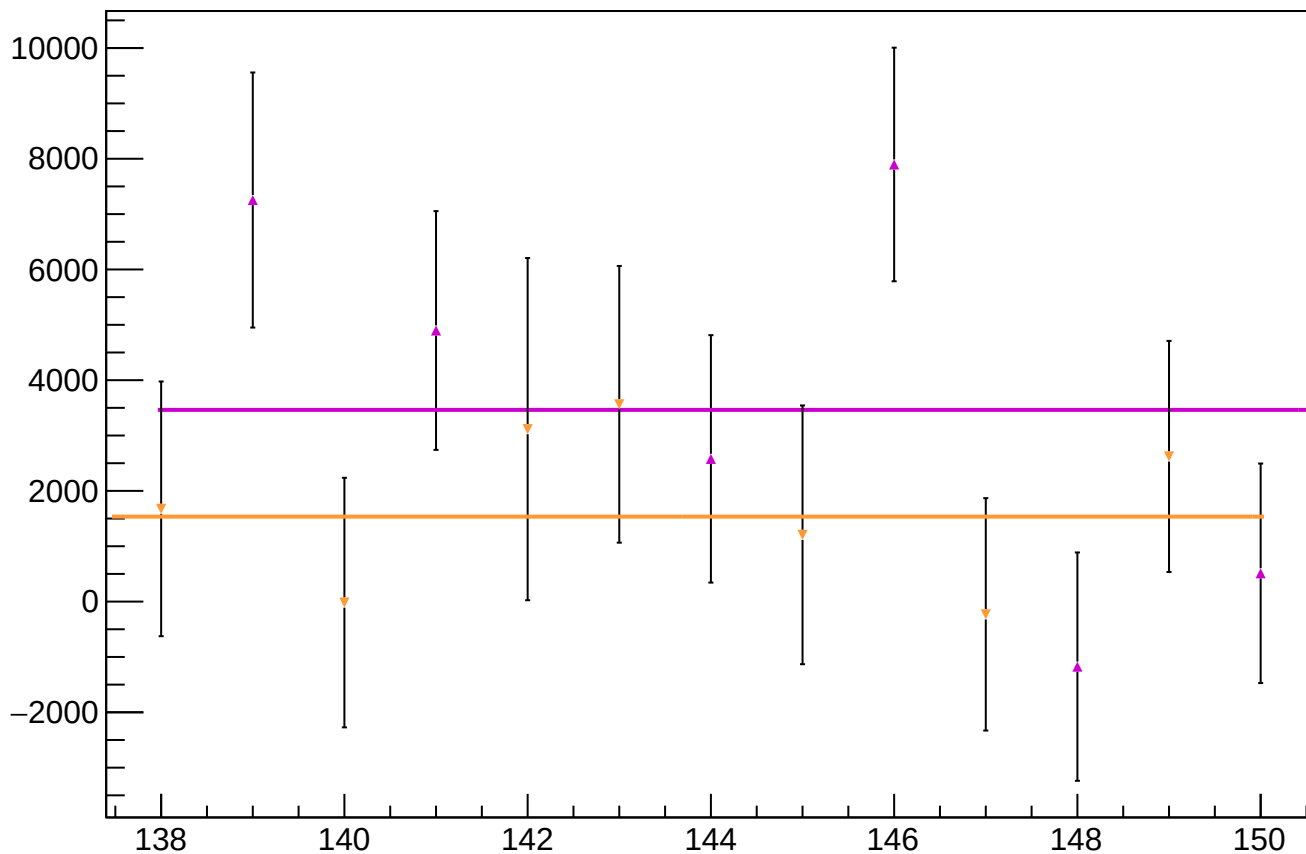
In: 4479.201+/-1.437  $\chi^2/\text{NDF}$ :74505.7/5

Out: 4382.818+/-1.399  $\chi^2/\text{NDF}$ :81105.6/6

All: 4429.726+/-1.002  $\chi^2/\text{NDF}$ : 157921.4/12



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



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

Left Out: 1534.896+/-880.454  $\chi^2/\text{NDF}$ : 2.4/6

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

Left In: 3463.370+/-871.206  $\chi^2/\text{NDF}$ : 15.0/5

Left: 2509.314+/-619.280  $\chi^2/\text{NDF}$ : 19.8/12

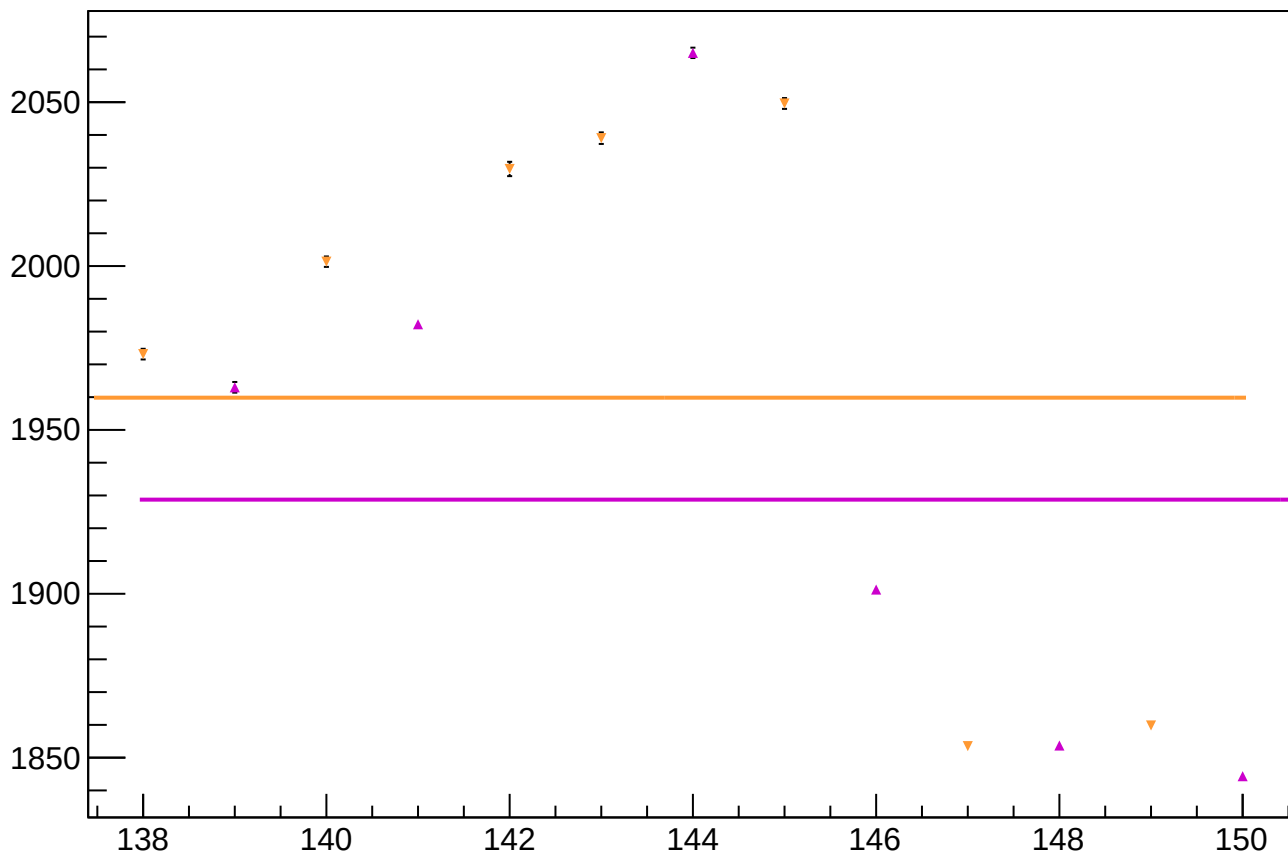
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3463.370+/-871.206  $\chi^2/\text{NDF}$ : 15.0/5

Out: 1534.896+/-880.454  $\chi^2/\text{NDF}$ : 2.4/6

All: 2509.314+/-619.280  $\chi^2/\text{NDF}$ : 19.8/12

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



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

Left Out: 1959.838+/-0.623  $\chi^2/\text{NDF}$ :16446.3/6

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

Left In: 1928.726+/-0.616  $\chi^2/\text{NDF}$ :15721.0/5

Left: 1944.118+/-0.438  $\chi^2/\text{NDF}$ : 33429.1/12

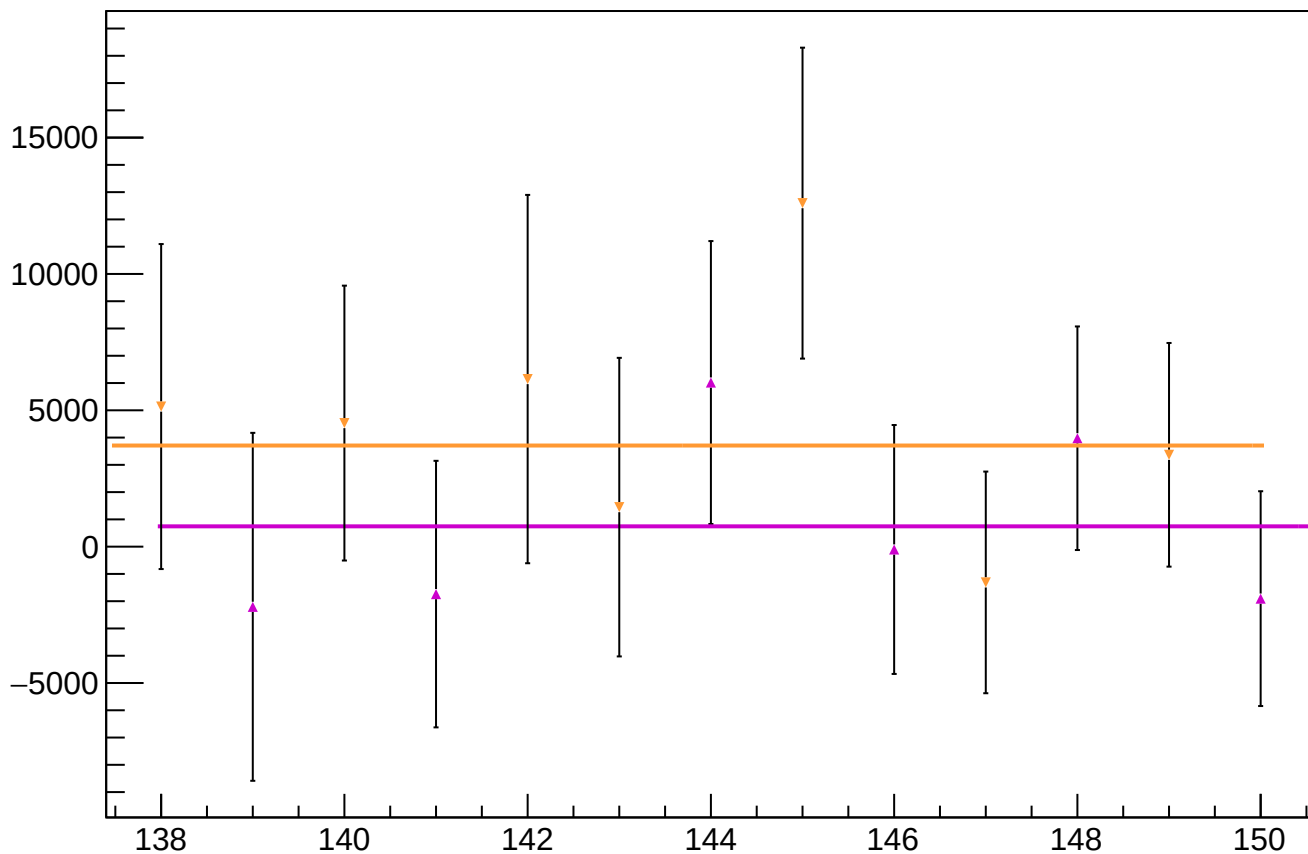
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1928.726+/-0.616  $\chi^2/\text{NDF}$ :15721.0/5

Out: 1959.838+/-0.623  $\chi^2/\text{NDF}$ :16446.3/6

All: 1944.118+/-0.438  $\chi^2/\text{NDF}$ : 33429.1/12

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



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

Left Out: 3708.521+/-1911.821  $\chi^2/\text{NDF}$ :4.3/6

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

Left In: 745.039+/-1904.894  $\chi^2/\text{NDF}$ :2.6/5

Left: 2221.402+/-1349.406  $\chi^2/\text{NDF}$ : 8.2/12

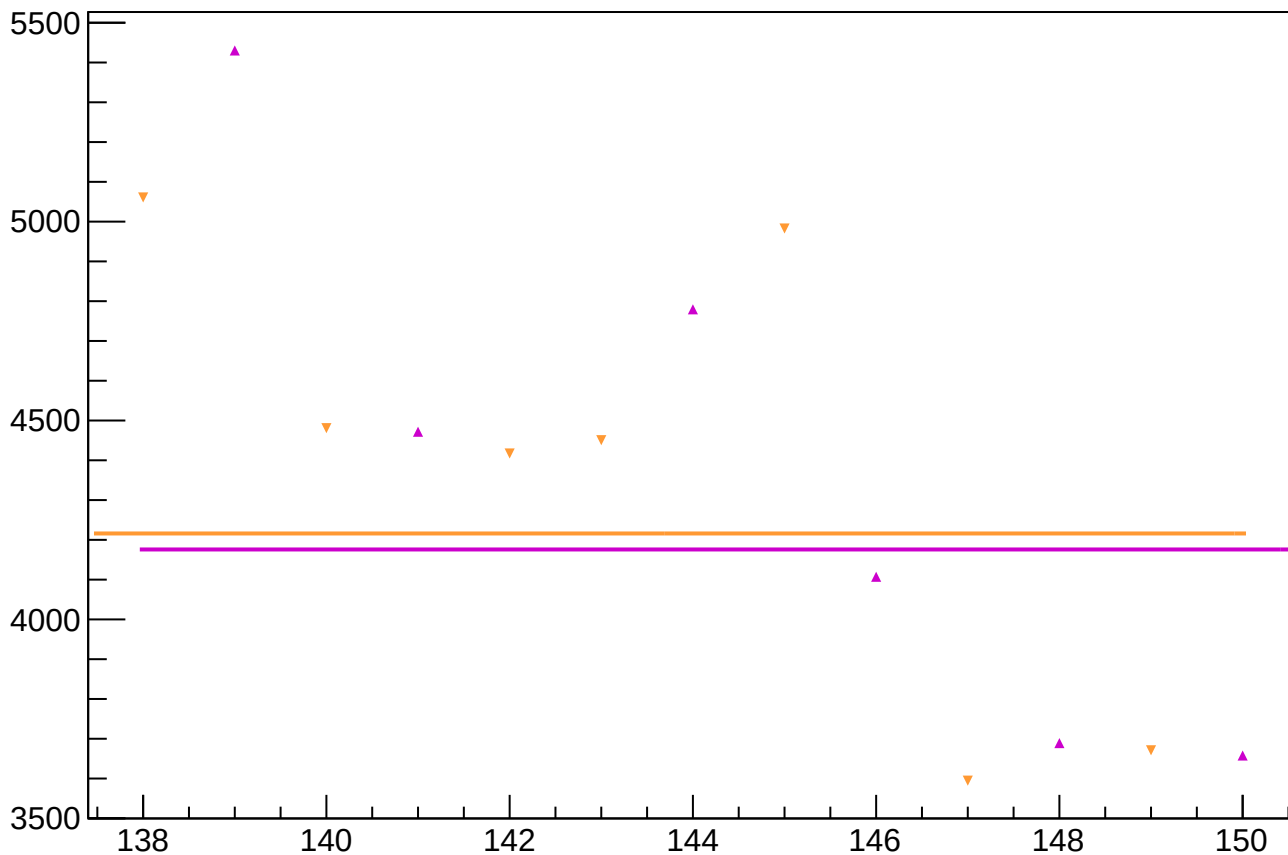
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 745.039+/-1904.894  $\chi^2/\text{NDF}$ :2.6/5

Out: 3708.521+/-1911.821  $\chi^2/\text{NDF}$ :4.3/6

All: 2221.402+/-1349.406  $\chi^2/\text{NDF}$ : 8.2/12

asym\_atr\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 4216.052+/-1.352  $\chi^2/\text{NDF}$ :169408.8/6

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

Left In: 4175.828+/-1.347  $\chi^2/\text{NDF}$ :175004.9/5

Left: 4195.867+/-0.954  $\chi^2/\text{NDF}$ : 344858.0/12

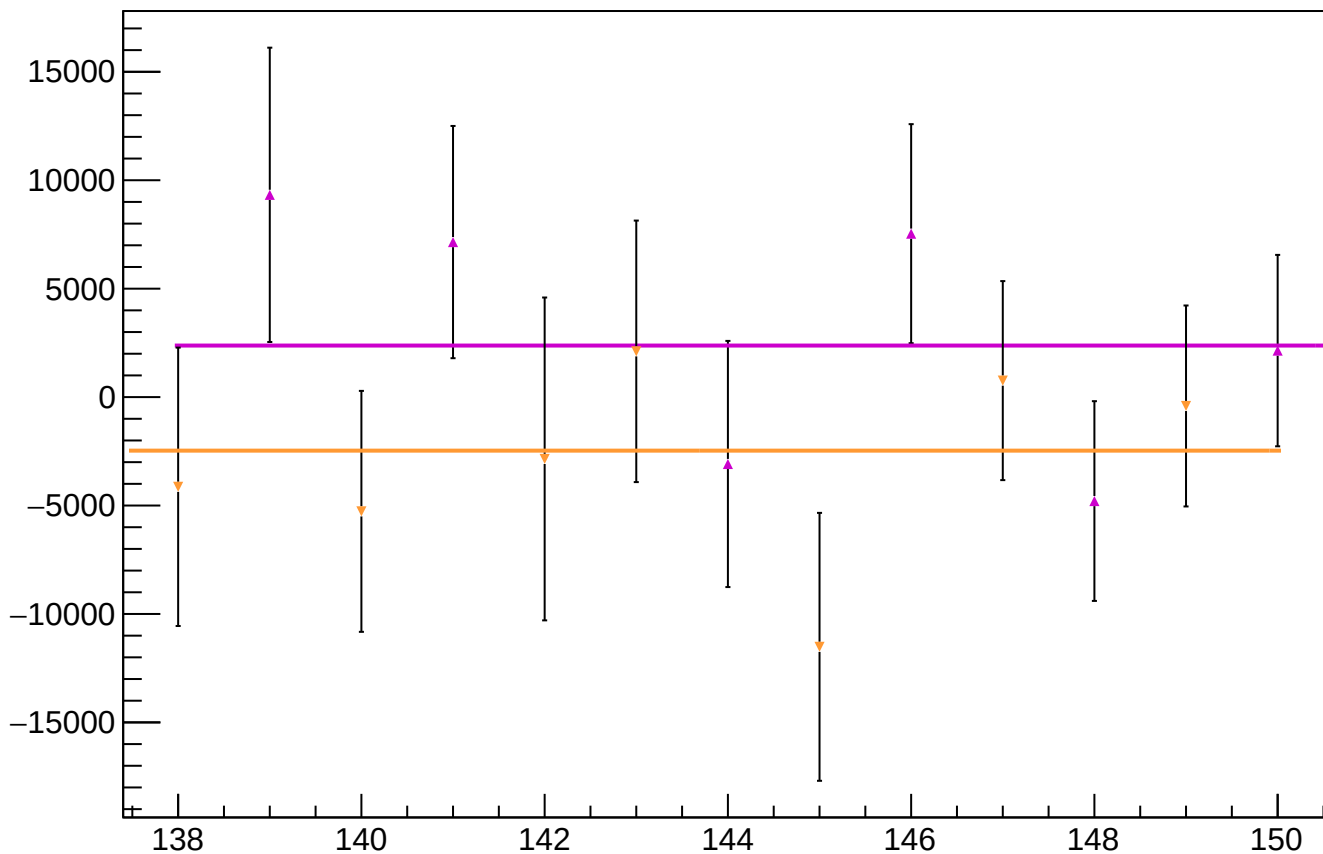
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4175.828+/-1.347  $\chi^2/\text{NDF}$ :175004.9/5

Out: 4216.052+/-1.352  $\chi^2/\text{NDF}$ :169408.8/6

All: 4195.867+/-0.954  $\chi^2/\text{NDF}$ : 344858.0/12

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



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

Left Out: -2468.411+/-2119.950  $\chi^2/\text{NDF}$ :3.7/6

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

Left In: 2377.147+/-2106.573  $\chi^2/\text{NDF}$ :6.2/5

Left: -30.297+/-1494.279  $\chi^2/\text{NDF}$ : 12.6/12

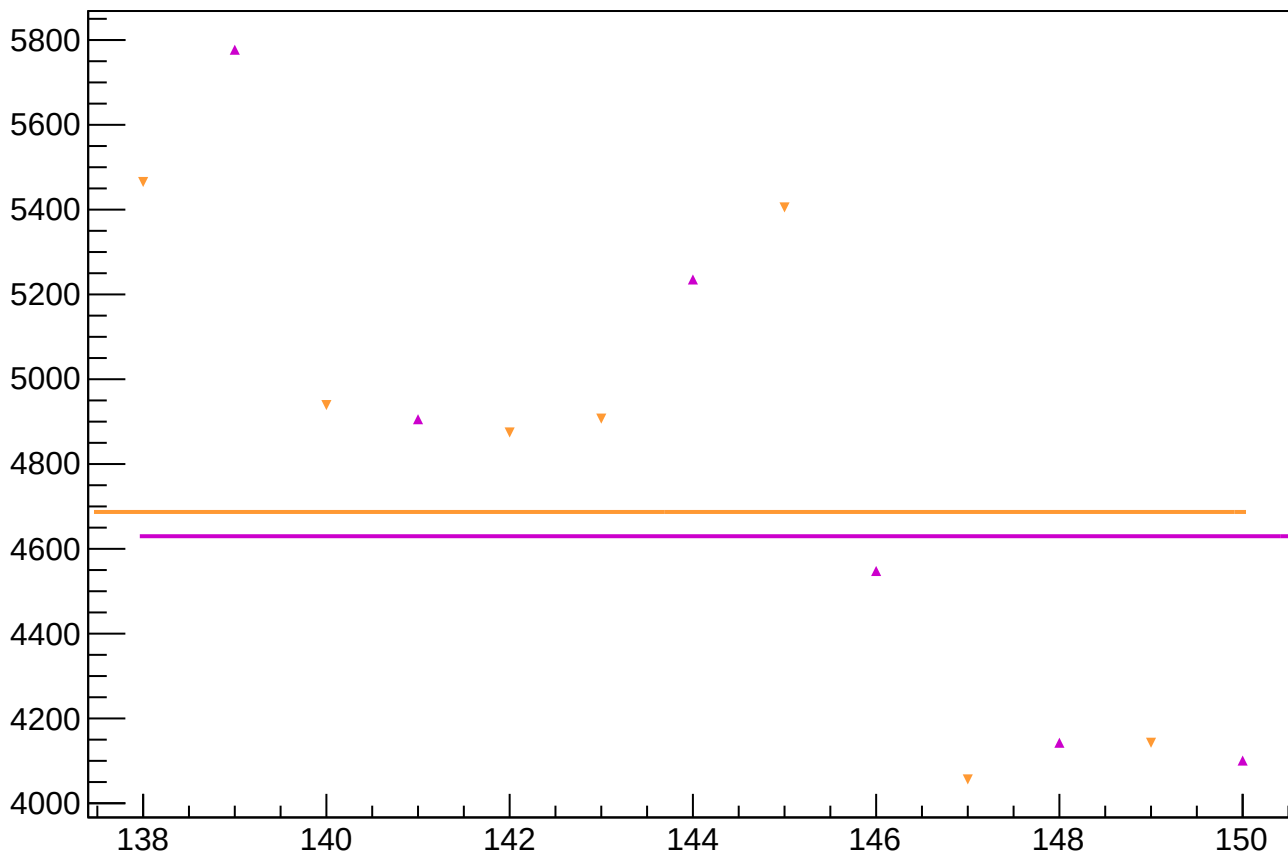
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2377.147+/-2106.573  $\chi^2/\text{NDF}$ :6.2/5

Out: -2468.411+/-2119.950  $\chi^2/\text{NDF}$ :3.7/6

All: -30.297+/-1494.279  $\chi^2/\text{NDF}$ : 12.6/12

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



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

Left Out: 4686.986+/-1.499  $\chi^2/\text{NDF}$ :129885.1/6

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

Left In: 4629.773+/-1.490  $\chi^2/\text{NDF}$ :136902.2/5

Left: 4658.198+/-1.057  $\chi^2/\text{NDF}$ : 267520.3/12

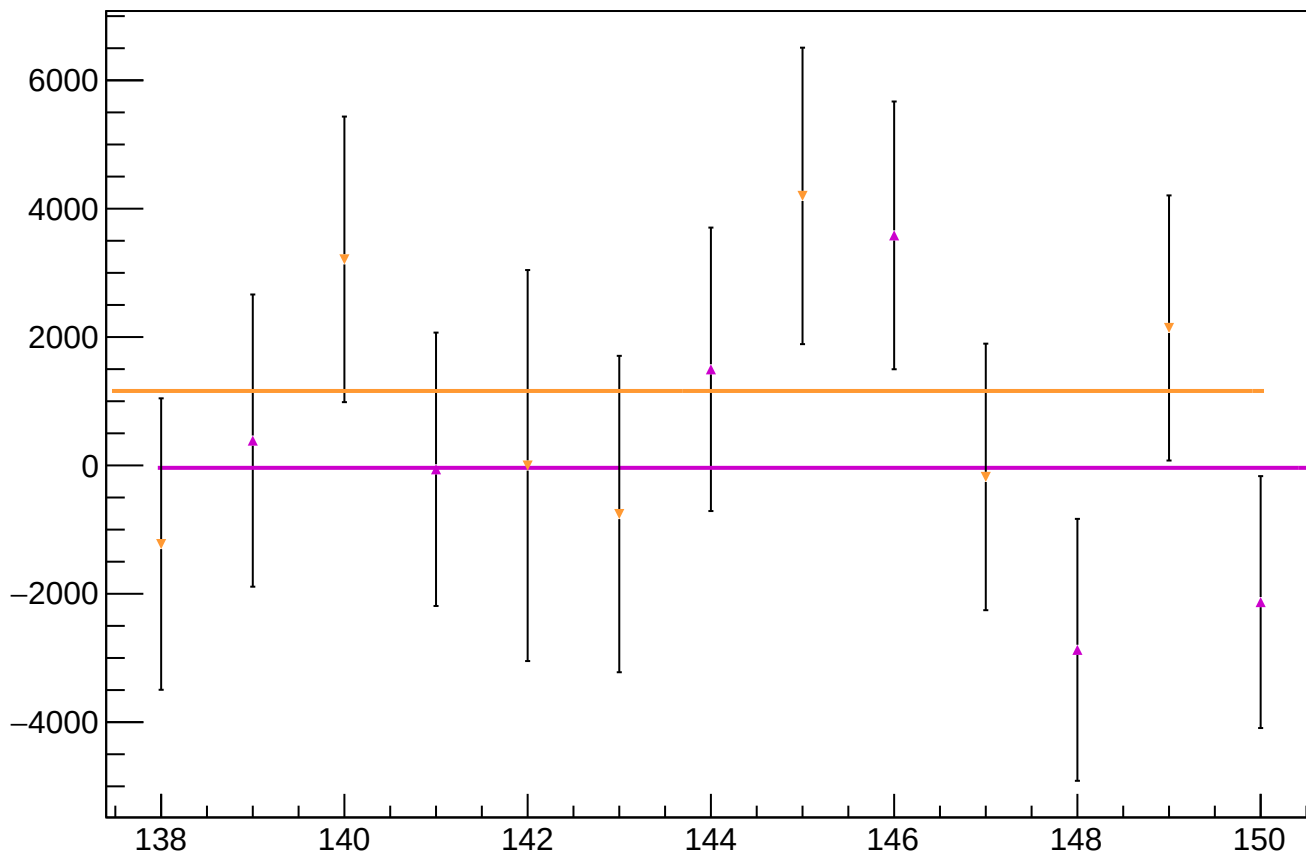
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4629.773+/-1.490  $\chi^2/\text{NDF}$ :136902.2/5

Out: 4686.986+/-1.499  $\chi^2/\text{NDF}$ :129885.1/6

All: 4658.198+/-1.057  $\chi^2/\text{NDF}$ : 267520.3/12

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



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

Left Out: 1159.937+/-869.623  $\chi^2/\text{NDF}$ : 5.1/6

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

Left In: -37.715+/-861.202  $\chi^2/\text{NDF}$ : 6.6/5

Left: 555.285+/-611.917  $\chi^2/\text{NDF}$ : 12.6/12

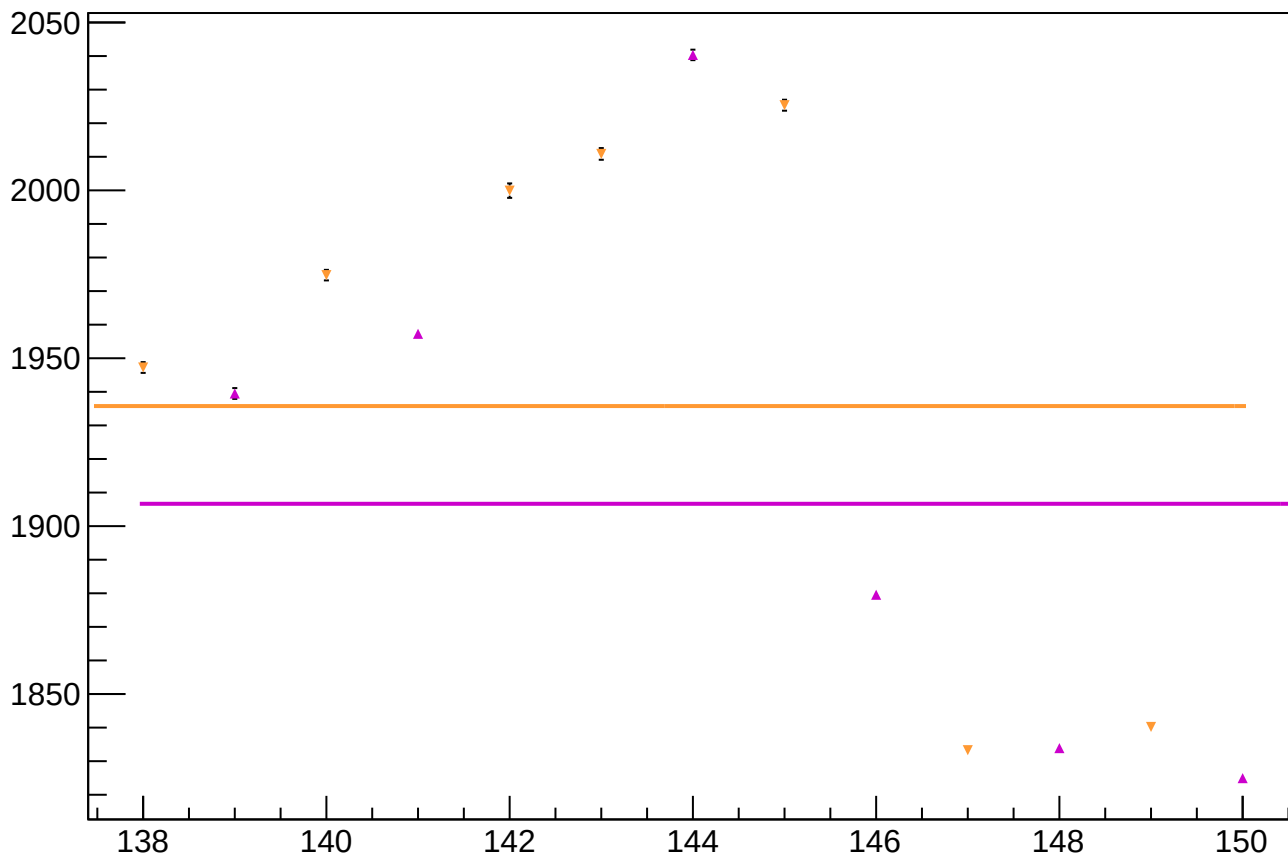
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.715+/-861.202  $\chi^2/\text{NDF}$ : 6.6/5

Out: 1159.937+/-869.623  $\chi^2/\text{NDF}$ : 5.1/6

All: 555.285+/-611.917  $\chi^2/\text{NDF}$ : 12.6/12

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



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

Left Out: 1935.761+/-0.615  $\chi^2/\text{NDF}$ :15575.4/6

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

Left In: 1906.654+/-0.609  $\chi^2/\text{NDF}$ :15225.1/5

Left: 1921.066+/-0.433  $\chi^2/\text{NDF}$ : 31931.7/12

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

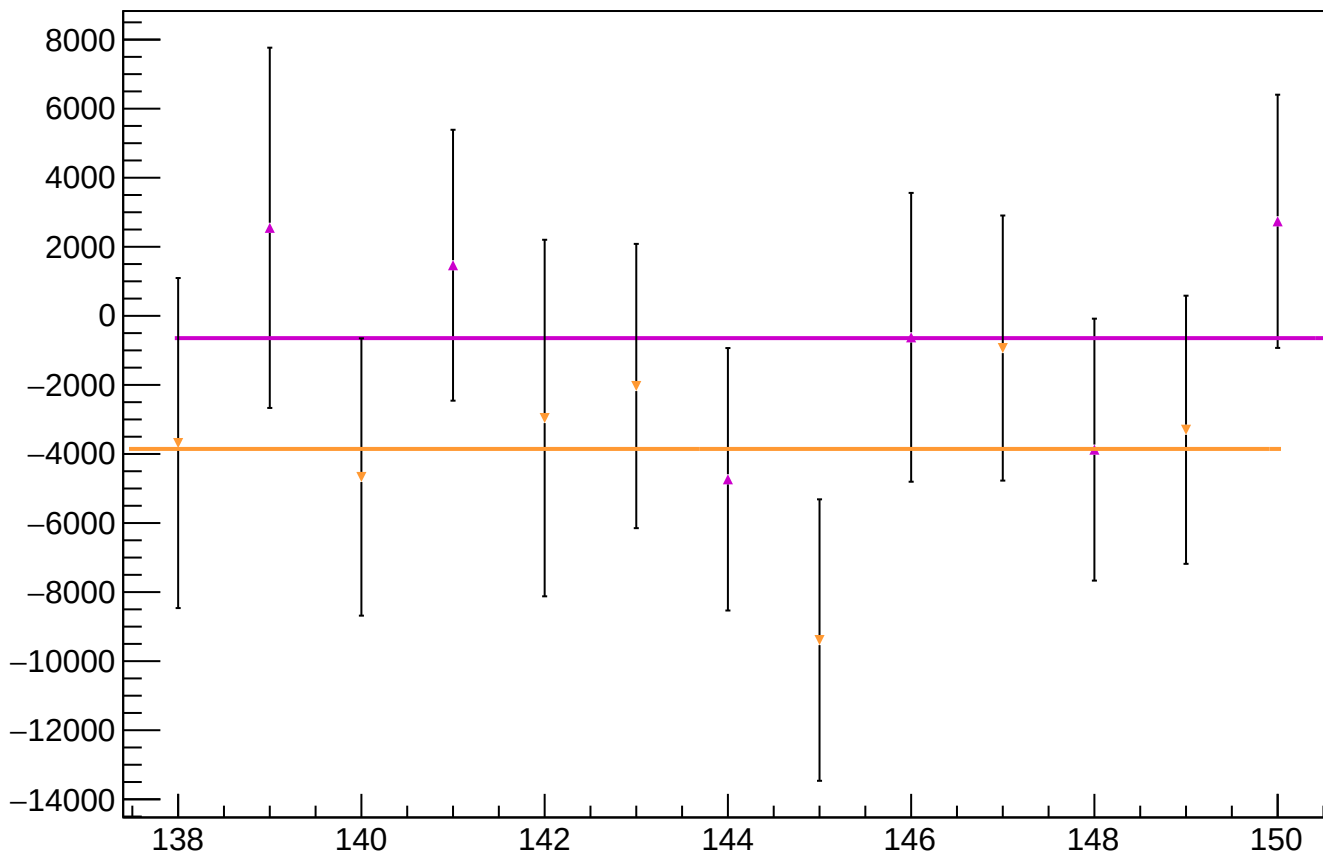
In: 1906.654+/-0.609  $\chi^2/\text{NDF}$ :15225.1/5

Out: 1935.761+/-0.615  $\chi^2/\text{NDF}$ :15575.4/6

All: 1921.066+/-0.433  $\chi^2/\text{NDF}$ : 31931.7/12



asym\_atr\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -3853.888+/-1587.643  $\chi^2/\text{NDF}$ : 2.7/6

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

Left In: -645.004+/-1639.475  $\chi^2/\text{NDF}$ : 3.4/5

Left: -2300.971+/-1140.517  $\chi^2/\text{NDF}$ : 8.1/12

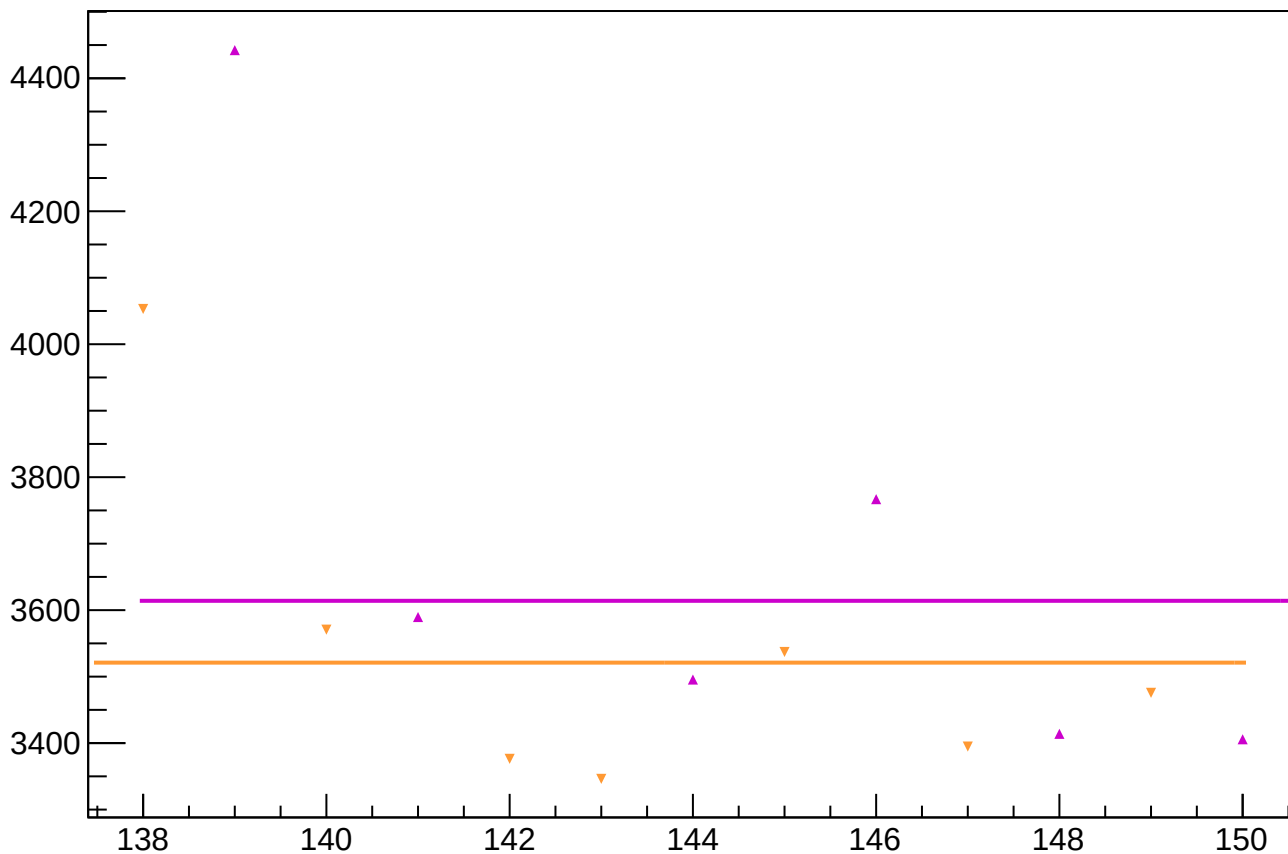
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -645.004+/-1639.475  $\chi^2/\text{NDF}$ : 3.4/5

Out: -3853.888+/-1587.643  $\chi^2/\text{NDF}$ : 2.7/6

All: -2300.971+/-1140.517  $\chi^2/\text{NDF}$ : 8.1/12

asym\_atr\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 3521.057+/-1.123  $\chi^2/\text{NDF}$ :32733.9/6

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

Left In: 3614.035+/-1.159  $\chi^2/\text{NDF}$ :67132.6/5

Left: 3566.053+/-0.806  $\chi^2/\text{NDF}$ : 103186.1/12

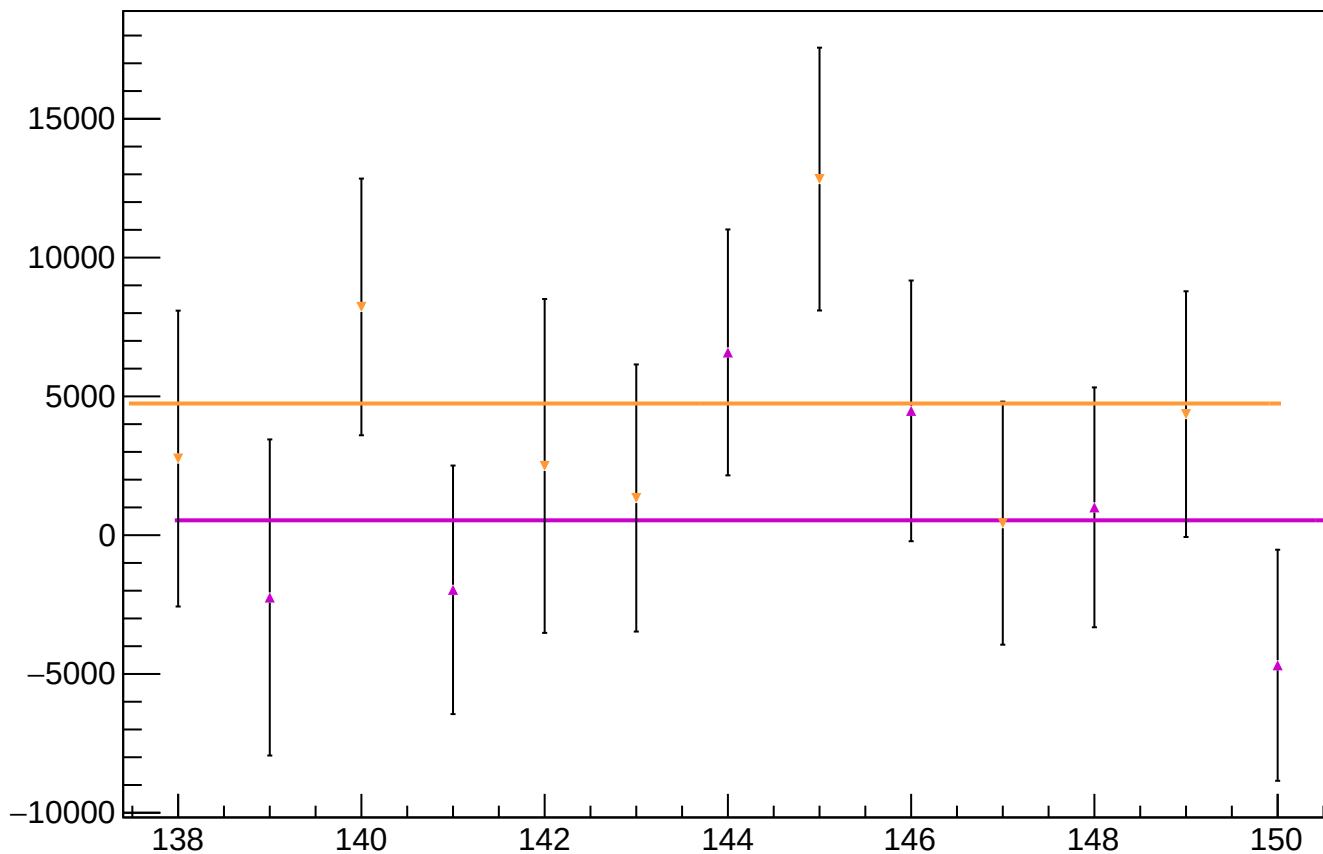
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3614.035+/-1.159  $\chi^2/\text{NDF}$ :67132.6/5

Out: 3521.057+/-1.123  $\chi^2/\text{NDF}$ :32733.9/6

All: 3566.053+/-0.806  $\chi^2/\text{NDF}$ : 103186.1/12

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



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

Left Out: 4743.644+/-1823.709  $\chi^2/\text{NDF}$ : 5.2/6

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

Left In: 535.451+/-1862.279  $\chi^2/\text{NDF}$ : 4.7/5

Left: 2683.577+/-1302.979  $\chi^2/\text{NDF}$ : 12.6/12

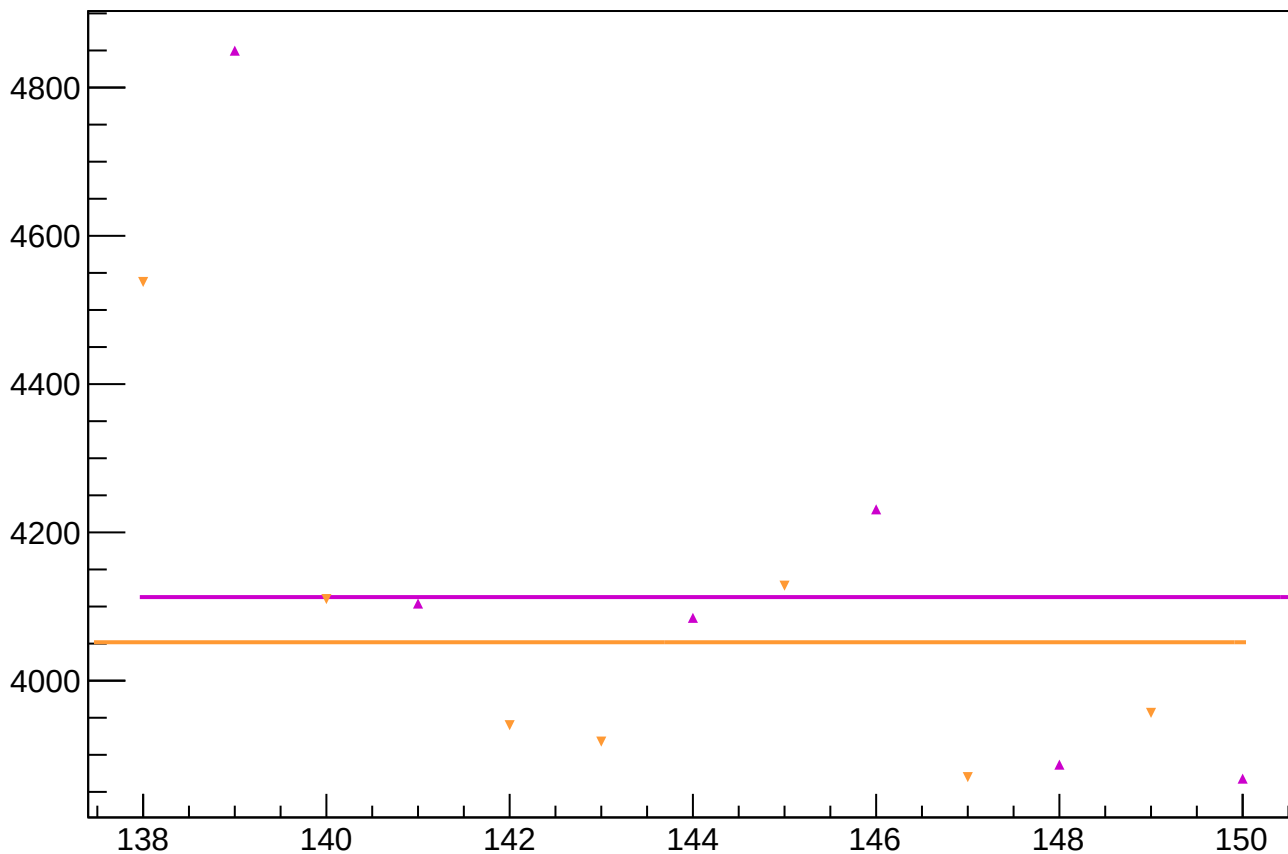
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 535.451+/-1862.279  $\chi^2/\text{NDF}$ : 4.7/5

Out: 4743.644+/-1823.709  $\chi^2/\text{NDF}$ : 5.2/6

All: 2683.577+/-1302.979  $\chi^2/\text{NDF}$ : 12.6/12

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



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

Left Out: 4051.838+/-1.290  $\chi^2/\text{NDF}$ :24089.6/6

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

Left In: 4112.752+/-1.317  $\chi^2/\text{NDF}$ :47256.3/5

Left: 4081.658+/-0.921  $\chi^2/\text{NDF}$ : 72438.2/12

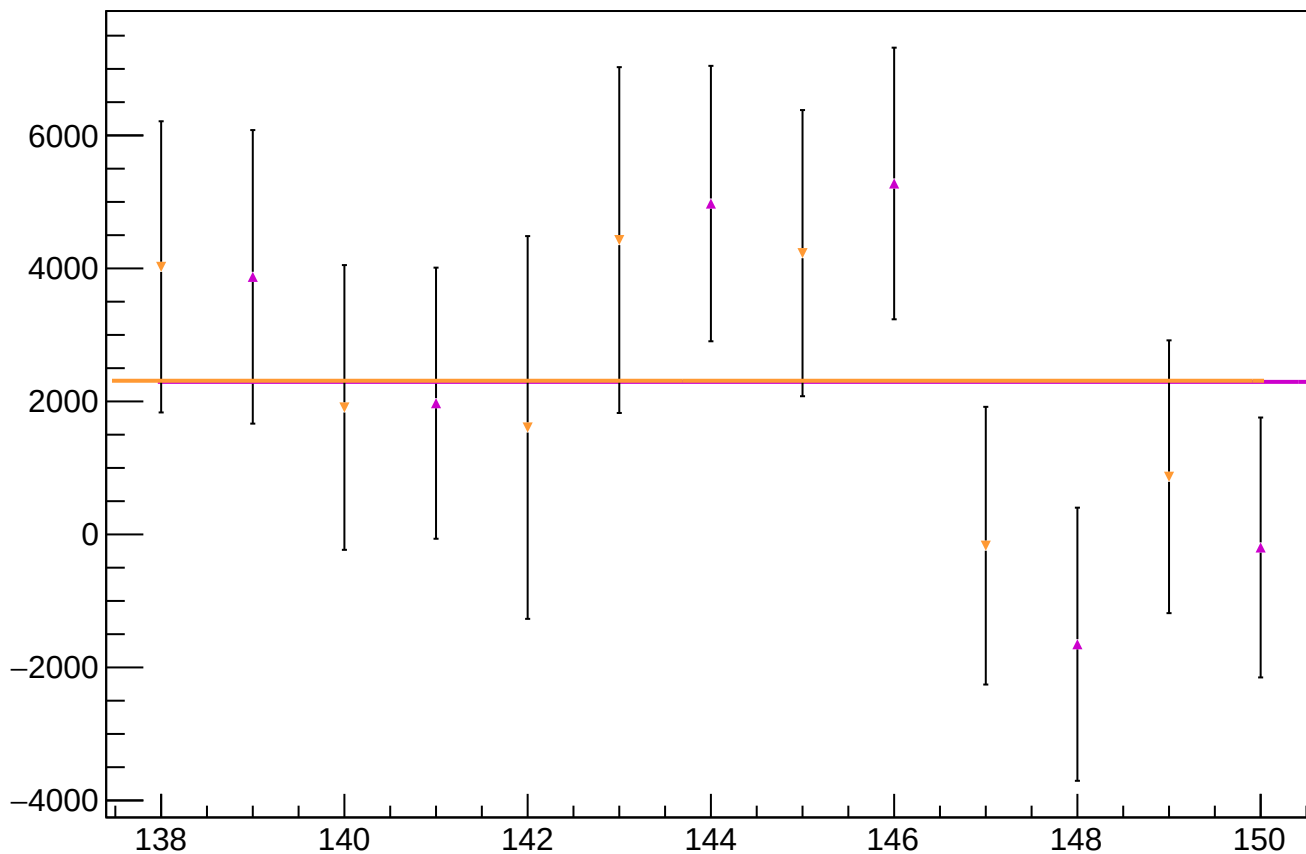
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4112.752+/-1.317  $\chi^2/\text{NDF}$ :47256.3/5

Out: 4051.838+/-1.290  $\chi^2/\text{NDF}$ :24089.6/6

All: 4081.658+/-0.921  $\chi^2/\text{NDF}$ : 72438.2/12

# reg\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 2310.986+/-851.691  $\chi^2/\text{NDF}$ :4.1/6

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

Left In: 2293.956+/-839.793  $\chi^2/\text{NDF}$ :9.7/5

Left: 2302.351+/-597.985  $\chi^2/\text{NDF}$ : 13.7/12

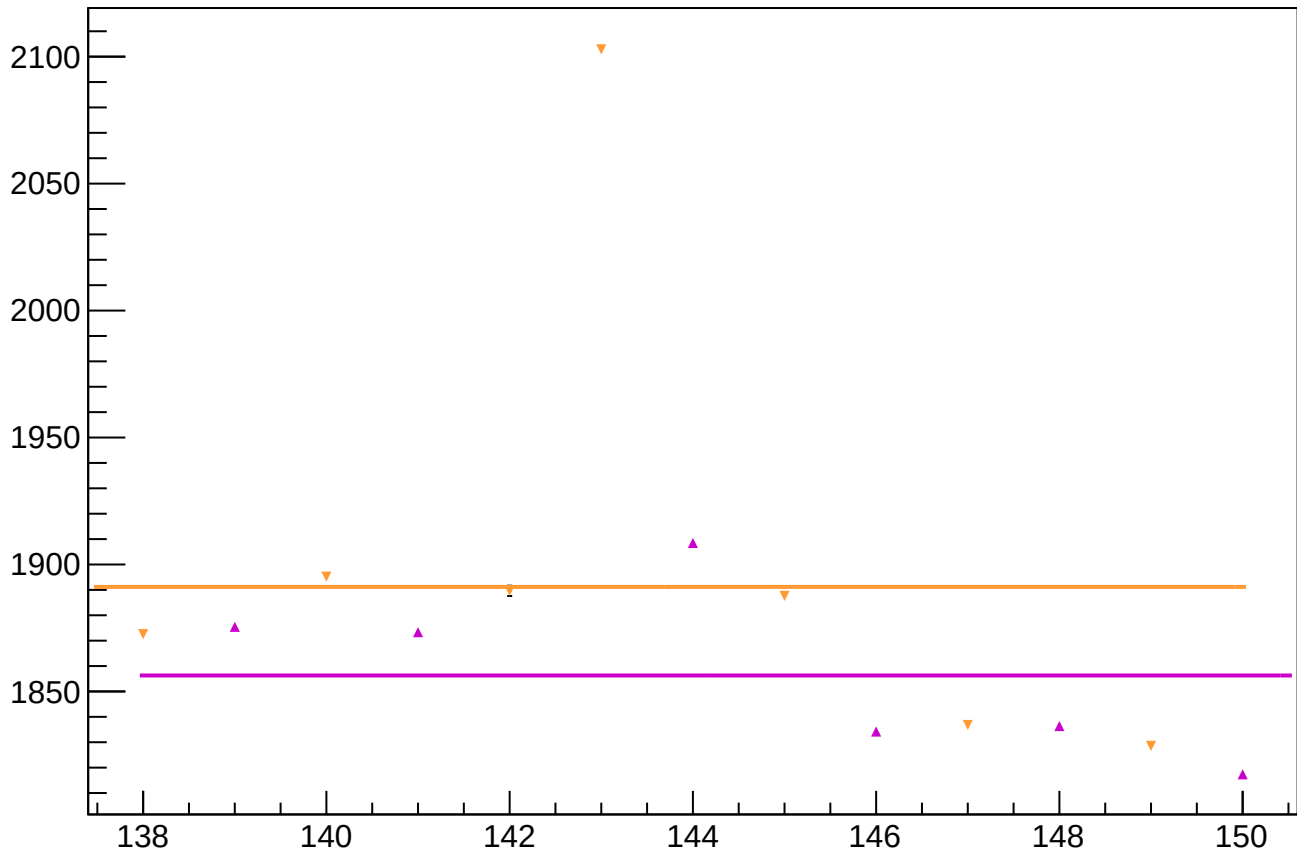
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2293.956+/-839.793  $\chi^2/\text{NDF}$ :9.7/5

Out: 2310.986+/-851.691  $\chi^2/\text{NDF}$ :4.1/6

All: 2302.351+/-597.985  $\chi^2/\text{NDF}$ : 13.7/12

# reg\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 1891.175+/-0.602  $\chi^2/\text{NDF}$ :16636.7/6

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

Left In: 1856.294+/-0.594  $\chi^2/\text{NDF}$ :2775.9/5

Left: 1873.489+/-0.423  $\chi^2/\text{NDF}$ : 21113.5/12

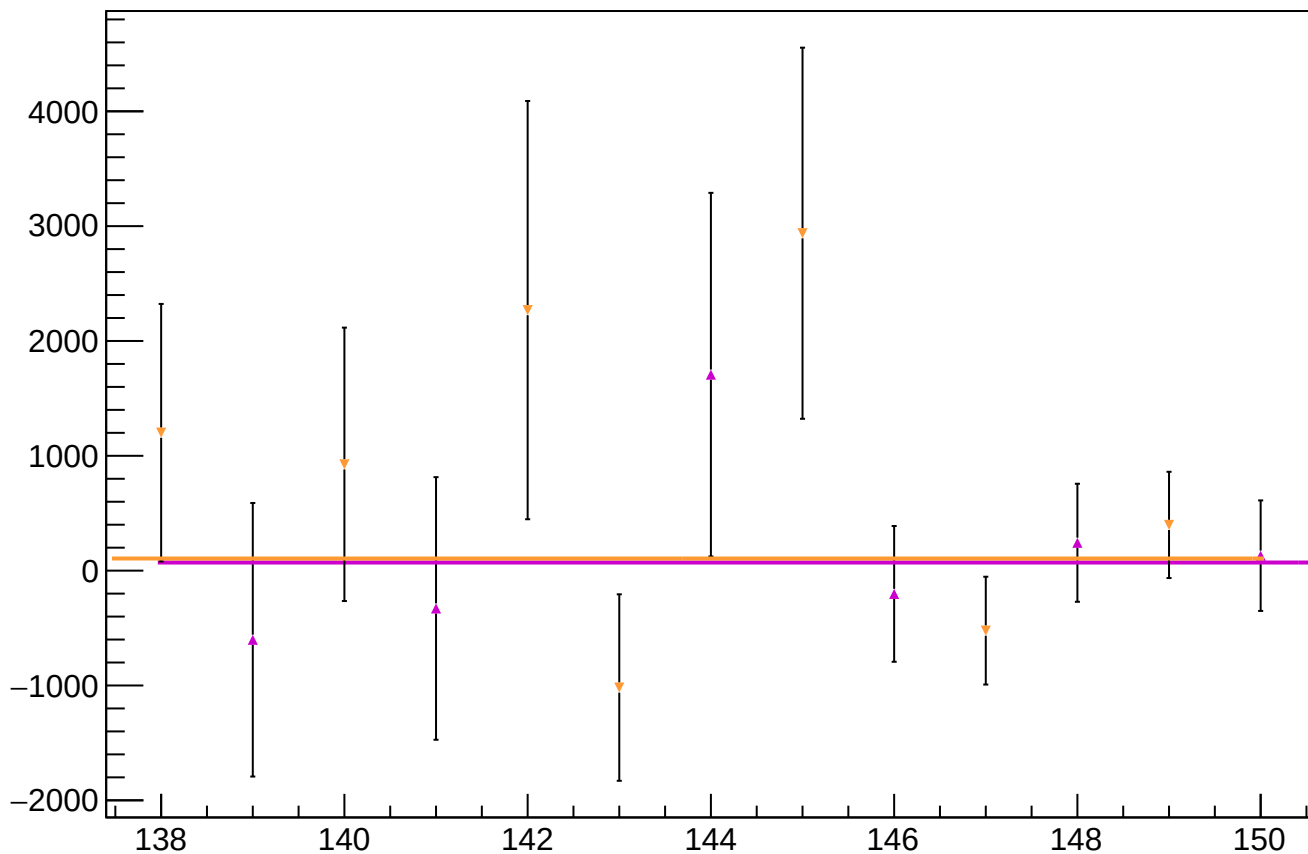
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1856.294+/-0.594  $\chi^2/\text{NDF}$ :2775.9/5

Out: 1891.175+/-0.602  $\chi^2/\text{NDF}$ :16636.7/6

All: 1873.489+/-0.423  $\chi^2/\text{NDF}$ : 21113.5/12

asym\_at1\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 105.716+/-278.277  $\chi^2/\text{NDF}$ :10.0/6

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

Left In: 70.742+/-279.138  $\chi^2/\text{NDF}$ :1.9/5

Left: 88.283+/-197.075  $\chi^2/\text{NDF}$ : 11.9/12

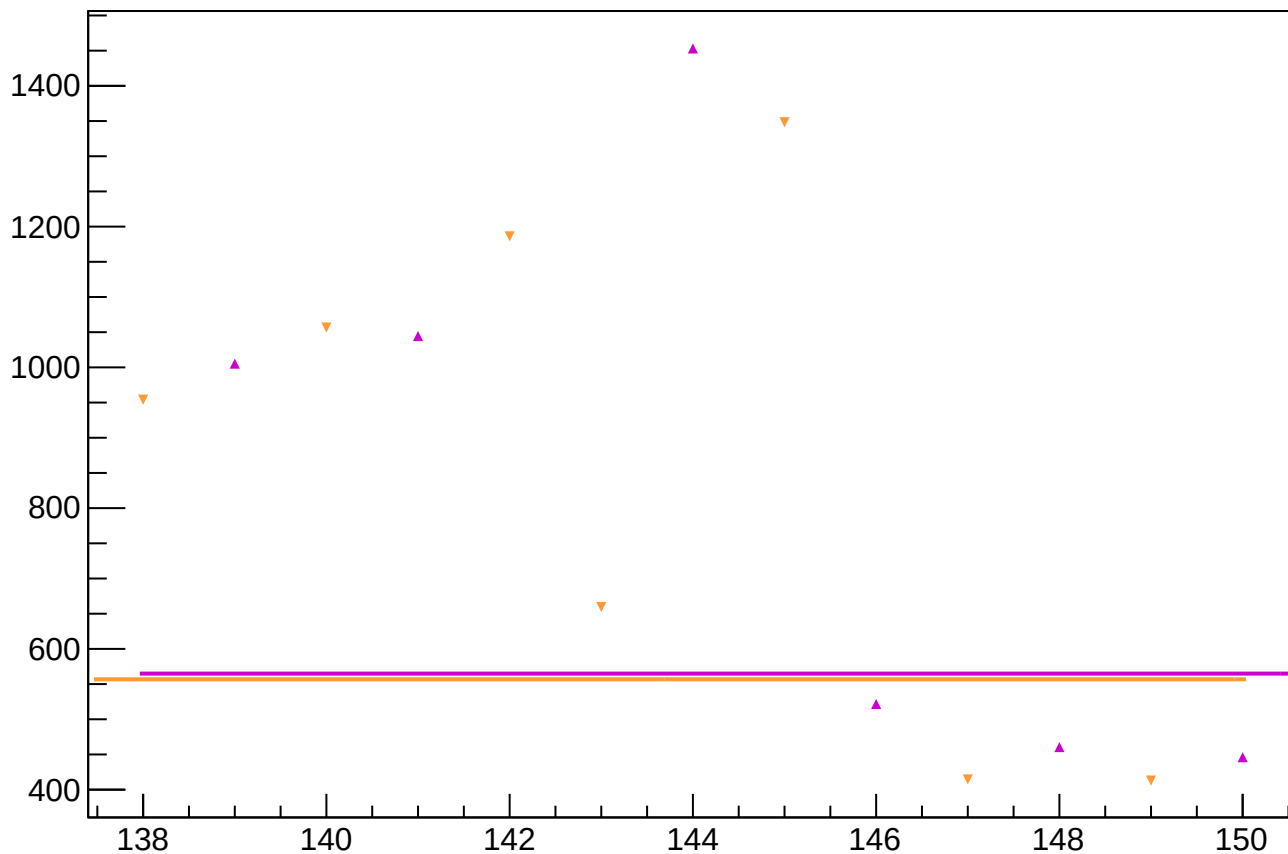
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 70.742+/-279.138  $\chi^2/\text{NDF}$ :1.9/5

Out: 105.716+/-278.277  $\chi^2/\text{NDF}$ :10.0/6

All: 88.283+/-197.075  $\chi^2/\text{NDF}$ : 11.9/12

asym\_at1\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 556.786+/-0.197  $\chi^2/\text{NDF}$ :1731773.3/6

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

Left In: 564.899+/-0.197  $\chi^2/\text{NDF}$ :1470089.0/5

Left: 560.830+/-0.139  $\chi^2/\text{NDF}$ : 3202709.6/12

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

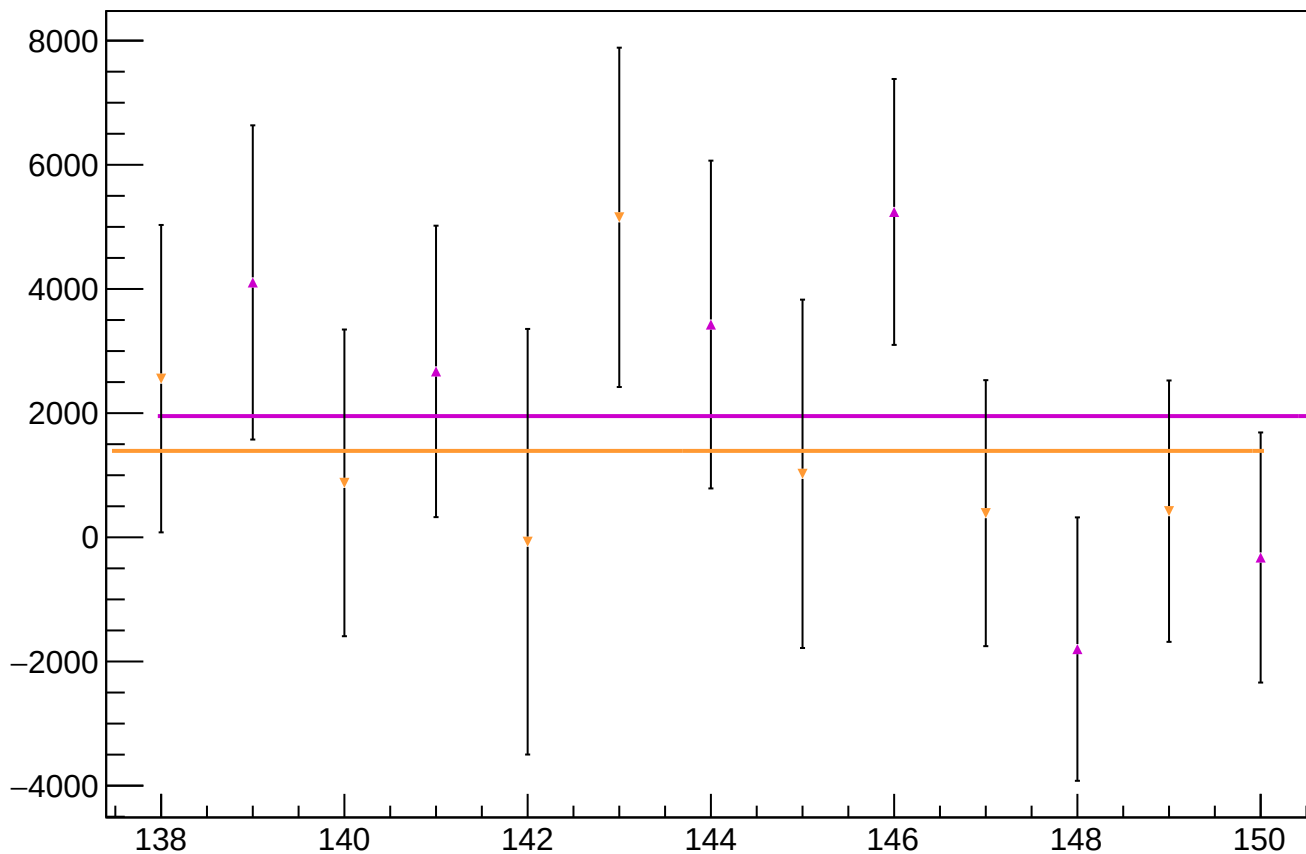
In: 564.899+/-0.197  $\chi^2/\text{NDF}$ :1470089.0/5

Out: 556.786+/-0.197  $\chi^2/\text{NDF}$ :1731773.3/6

All: 560.830+/-0.139  $\chi^2/\text{NDF}$ : 3202709.6/12



# asym\_at1\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1392.028+/-946.269  $\chi^2/\text{NDF}$ : 2.8/6

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

Left In: 1952.653+/-925.297  $\chi^2/\text{NDF}$ : 7.9/5

Left: 1678.622+/-661.574  $\chi^2/\text{NDF}$ : 10.9/12

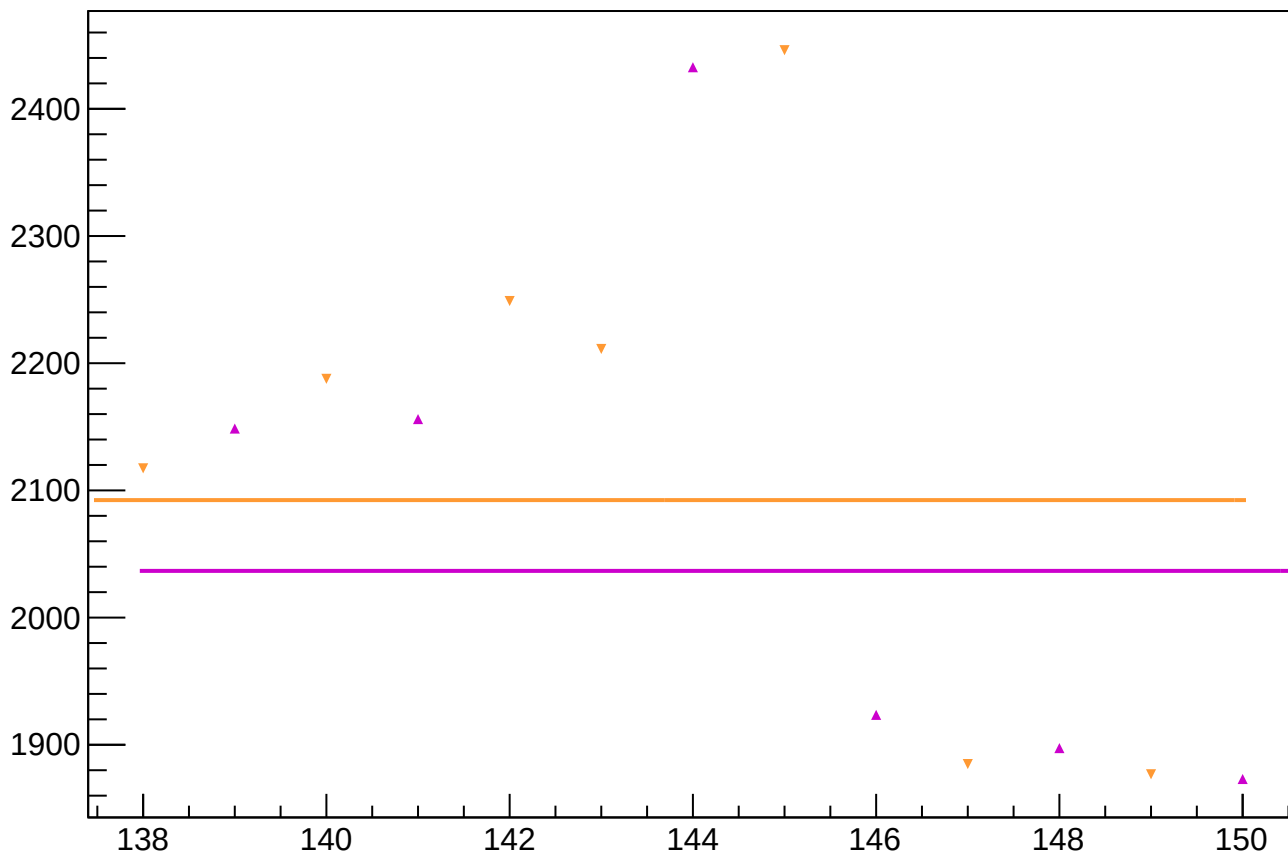
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1952.653+/-925.297  $\chi^2/\text{NDF}$ : 7.9/5

Out: 1392.028+/-946.269  $\chi^2/\text{NDF}$ : 2.8/6

All: 1678.622+/-661.574  $\chi^2/\text{NDF}$ : 10.9/12

# asym\_at1\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 2092.373+/-0.669  $\chi^2/\text{NDF}$ : 82676.5/6

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

Left In: 2036.722+/-0.654  $\chi^2/\text{NDF}$ : 81498.9/5

Left: 2063.924+/-0.468  $\chi^2/\text{NDF}$ : 167711.5/12

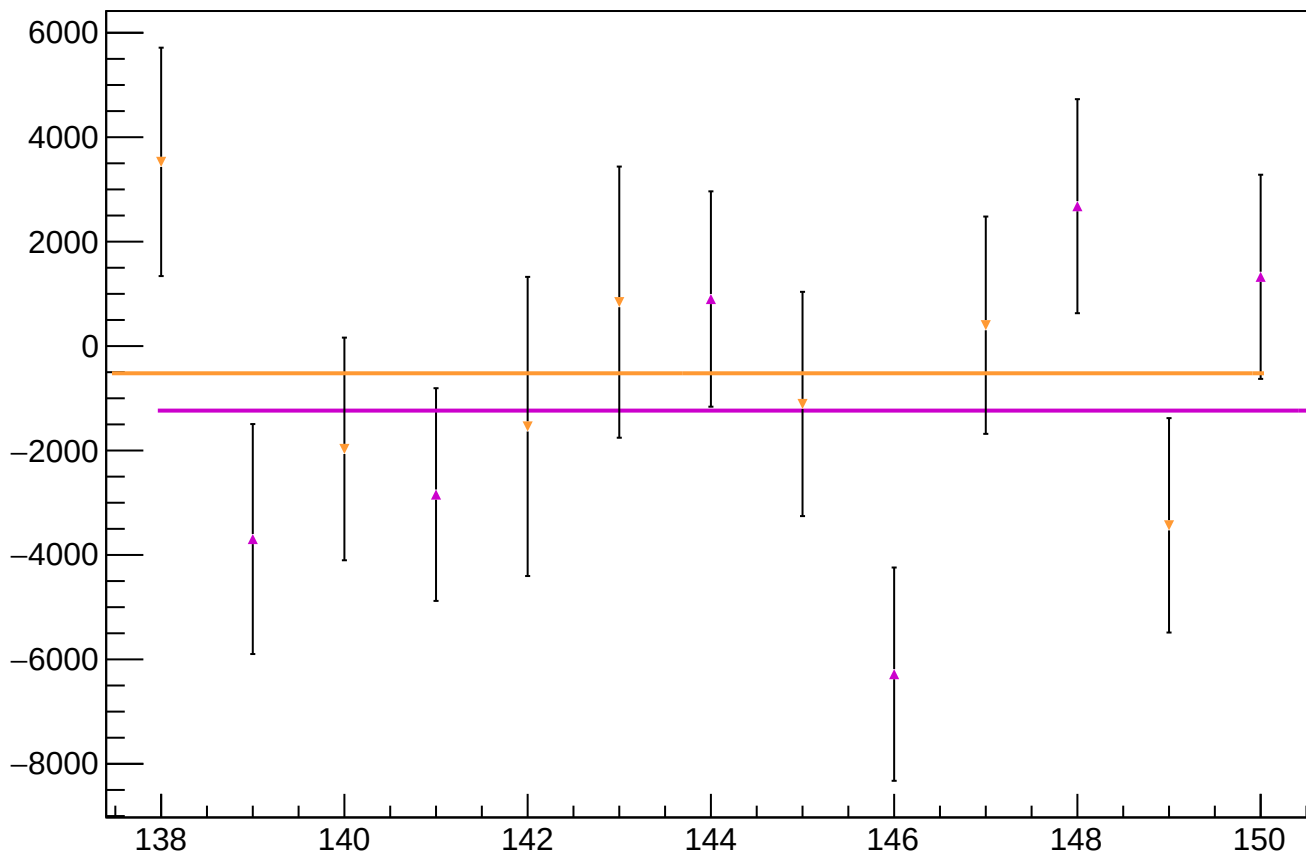
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2036.722+/-0.654  $\chi^2/\text{NDF}$ : 81498.9/5

Out: 2092.373+/-0.669  $\chi^2/\text{NDF}$ : 82676.5/6

All: 2063.924+/-0.468  $\chi^2/\text{NDF}$ : 167711.5/12

# reg\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -520.810+/-849.920  $\chi^2/\text{NDF}$ : 6.6/6

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

Left In: -1235.518+/-838.587  $\chi^2/\text{NDF}$ : 14.4/5

Left: -882.960+/-596.937  $\chi^2/\text{NDF}$ : 21.3/12

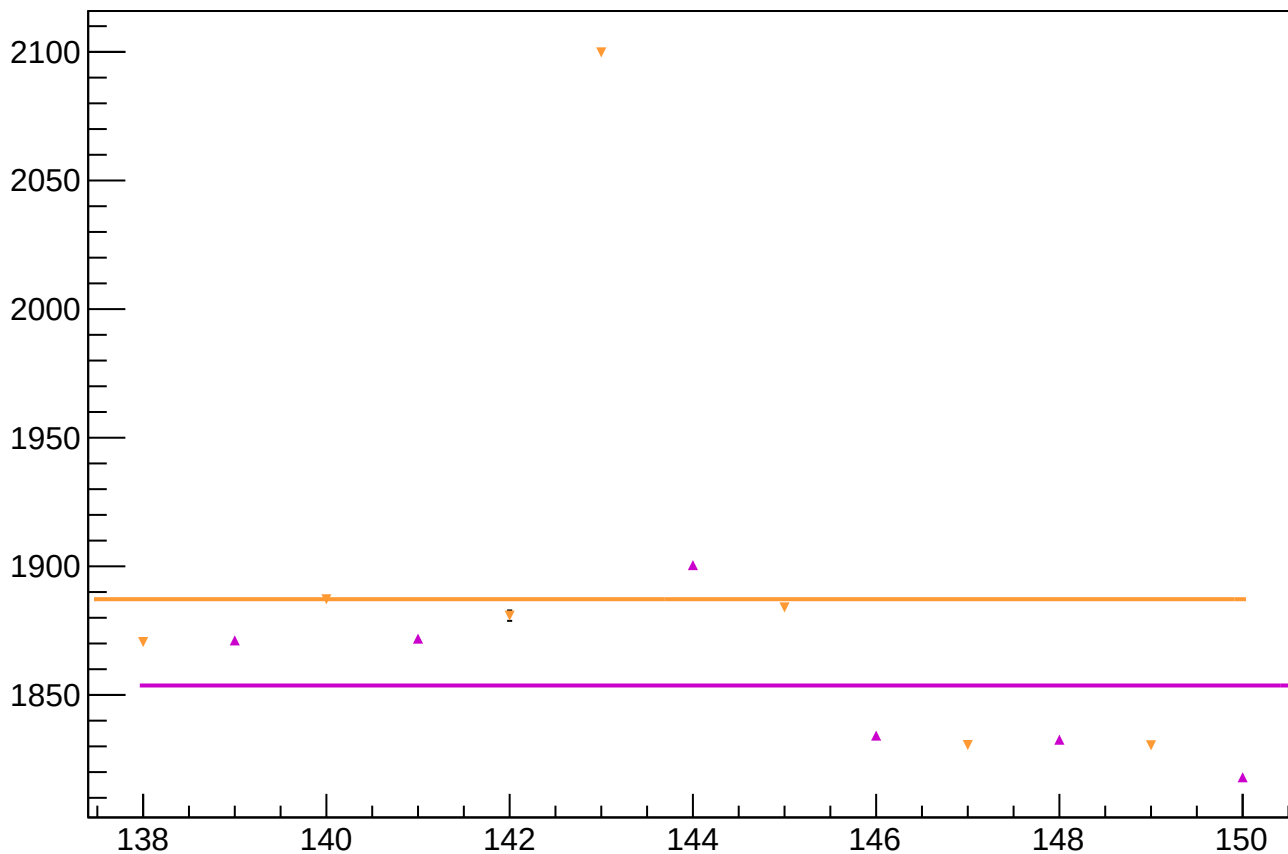
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1235.518+/-838.587  $\chi^2/\text{NDF}$ : 14.4/5

Out: -520.810+/-849.920  $\chi^2/\text{NDF}$ : 6.6/6

All: -882.960+/-596.937  $\chi^2/\text{NDF}$ : 21.3/12

# reg\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1887.217+/-0.601  $\chi^2/\text{NDF}$ :16554.6/6

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

Left In: 1853.675+/-0.593  $\chi^2/\text{NDF}$ :2376.7/5

Left: 1870.221+/-0.422  $\chi^2/\text{NDF}$ : 20509.7/12

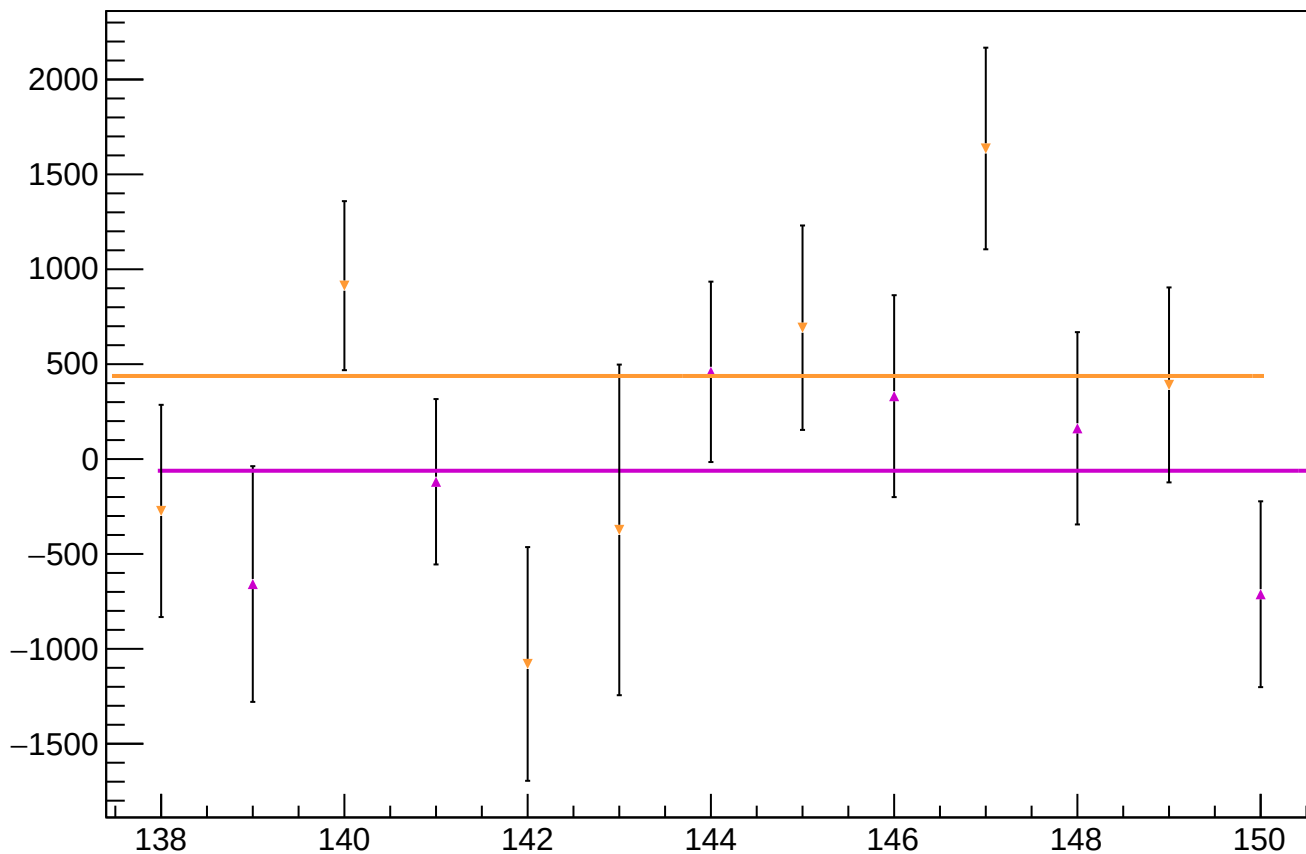
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1853.675+/-0.593  $\chi^2/\text{NDF}$ :2376.7/5

Out: 1887.217+/-0.601  $\chi^2/\text{NDF}$ :16554.6/6

All: 1870.221+/-0.422  $\chi^2/\text{NDF}$ : 20509.7/12

asym\_at1\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 437.775+/-208.607  $\chi^2/\text{NDF}$ :15.0/6

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

Left In: -61.565+/-204.599  $\chi^2/\text{NDF}$ :4.7/5

Left: 183.262+/-146.070  $\chi^2/\text{NDF}$ : 22.6/12

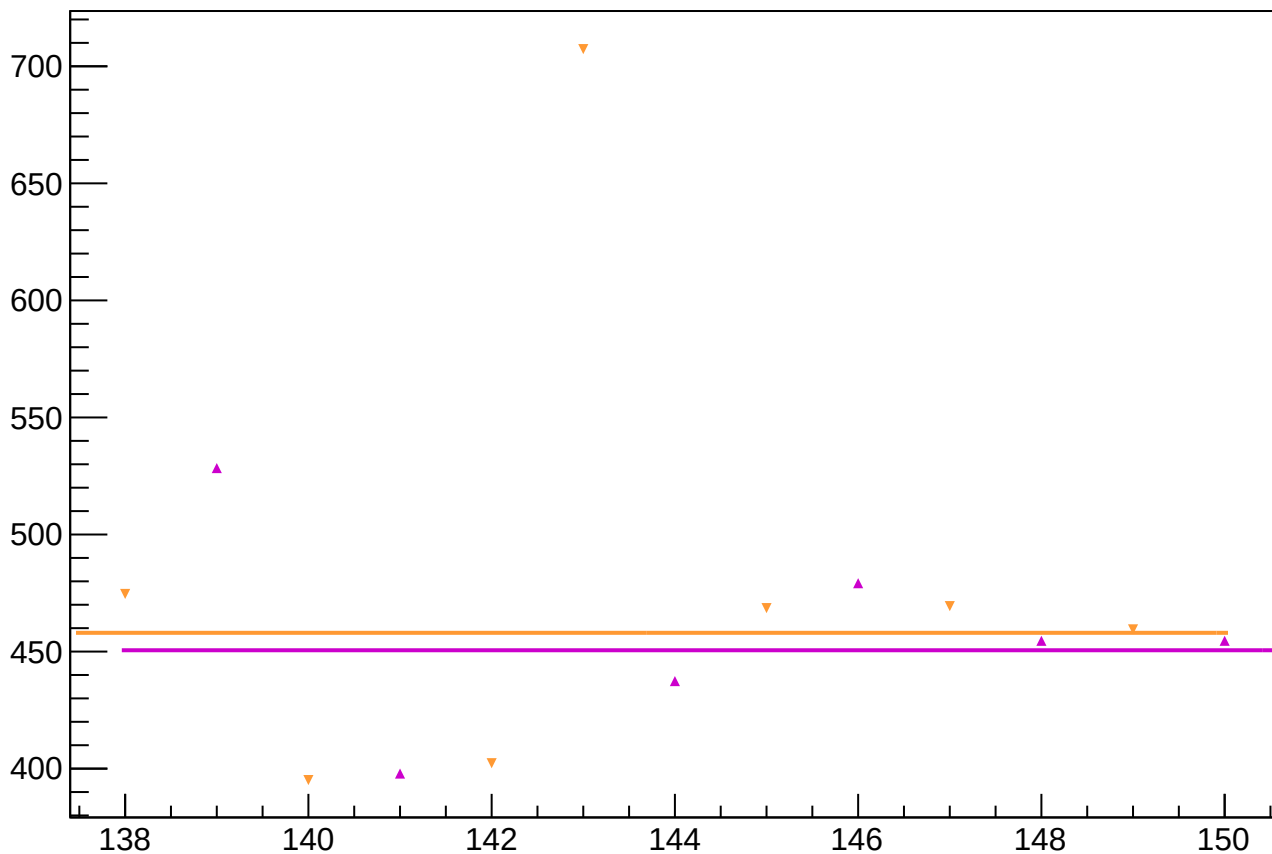
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -61.565+/-204.599  $\chi^2/\text{NDF}$ :4.7/5

Out: 437.775+/-208.607  $\chi^2/\text{NDF}$ :15.0/6

All: 183.262+/-146.070  $\chi^2/\text{NDF}$ : 22.6/12

asym\_at1\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 458.013+/-0.148  $\chi^2/\text{NDF}$ :223601.9/6

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

Left In: 450.563+/-0.145  $\chi^2/\text{NDF}$ :68218.9/5

Left: 454.216+/-0.103  $\chi^2/\text{NDF}$ : 293121.2/12

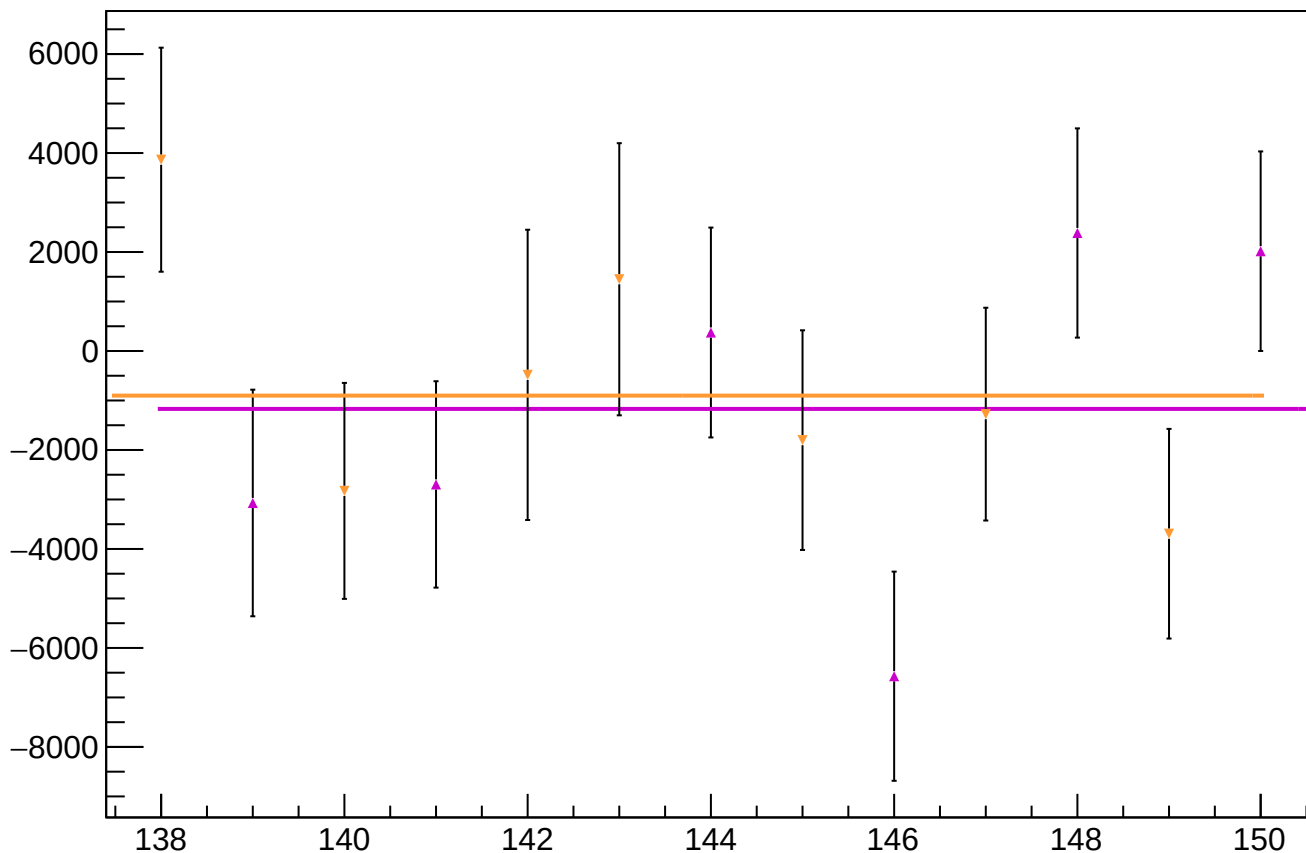
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 450.563+/-0.145  $\chi^2/\text{NDF}$ :68218.9/5

Out: 458.013+/-0.148  $\chi^2/\text{NDF}$ :223601.9/6

All: 454.216+/-0.103  $\chi^2/\text{NDF}$ : 293121.2/12

# asym\_at1\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -901.265+/-878.364  $\chi^2/\text{NDF}$ : 7.9/6

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

Left In: -1170.174+/-864.865  $\chi^2/\text{NDF}$ : 13.6/5

Left: -1037.802+/-616.269  $\chi^2/\text{NDF}$ : 21.6/12

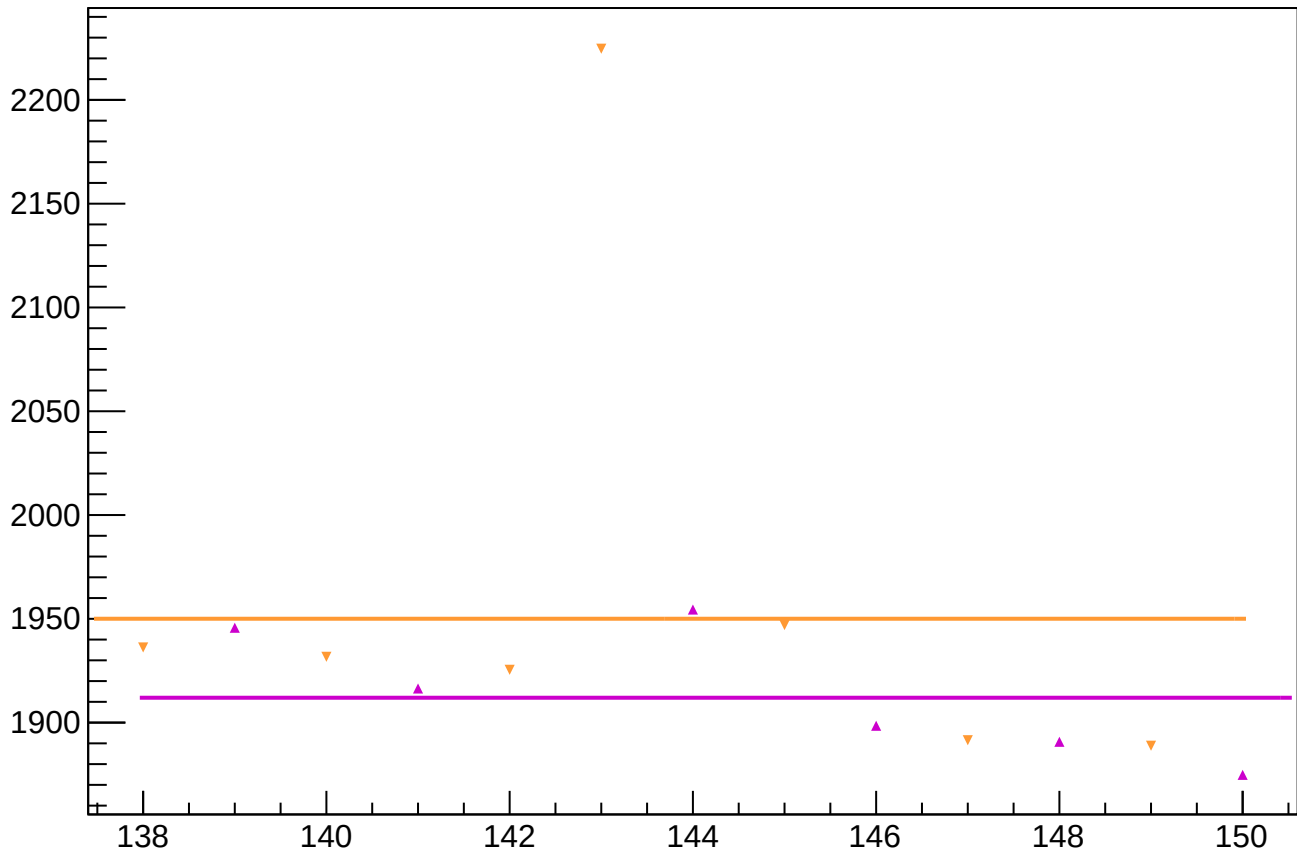
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1170.174+/-864.865  $\chi^2/\text{NDF}$ : 13.6/5

Out: -901.265+/-878.364  $\chi^2/\text{NDF}$ : 7.9/6

All: -1037.802+/-616.269  $\chi^2/\text{NDF}$ : 21.6/12

# asym\_at1\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1950.035+/-0.621  $\chi^2/\text{NDF}$ :23467.0/6

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

Left In: 1911.978+/-0.612  $\chi^2/\text{NDF}$ :2208.3/5

Left: 1930.712+/-0.436  $\chi^2/\text{NDF}$ : 27581.7/12

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

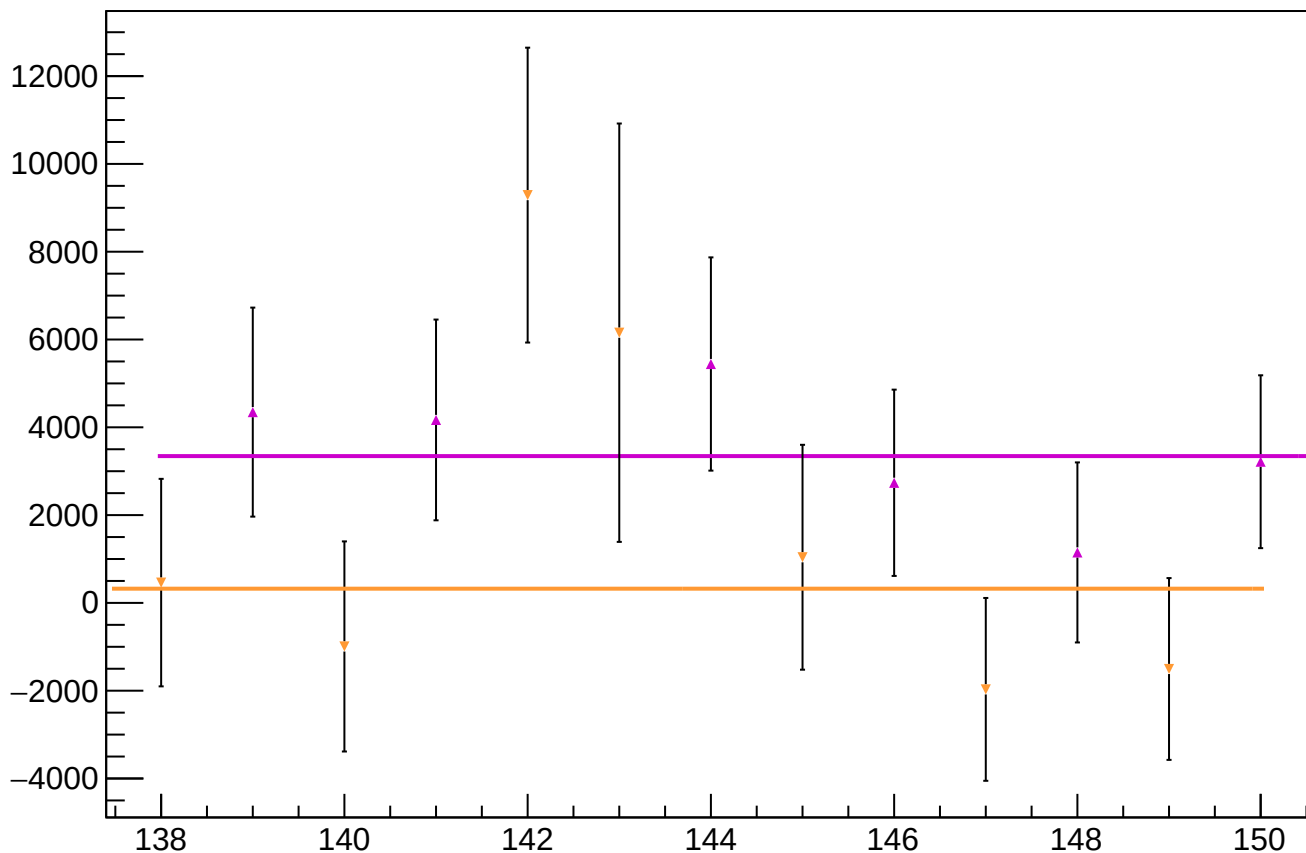
In: 1911.978+/-0.612  $\chi^2/\text{NDF}$ :2208.3/5

Out: 1950.035+/-0.621  $\chi^2/\text{NDF}$ :23467.0/6

All: 1930.712+/-0.436  $\chi^2/\text{NDF}$ : 27581.7/12



# reg\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 323.950+/-952.351  $\chi^2/\text{NDF}$ :11.0/6

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

Left In: 3344.149+/-892.607  $\chi^2/\text{NDF}$ :2.3/5

Left: 1931.747+/-651.266  $\chi^2/\text{NDF}$ : 18.6/12

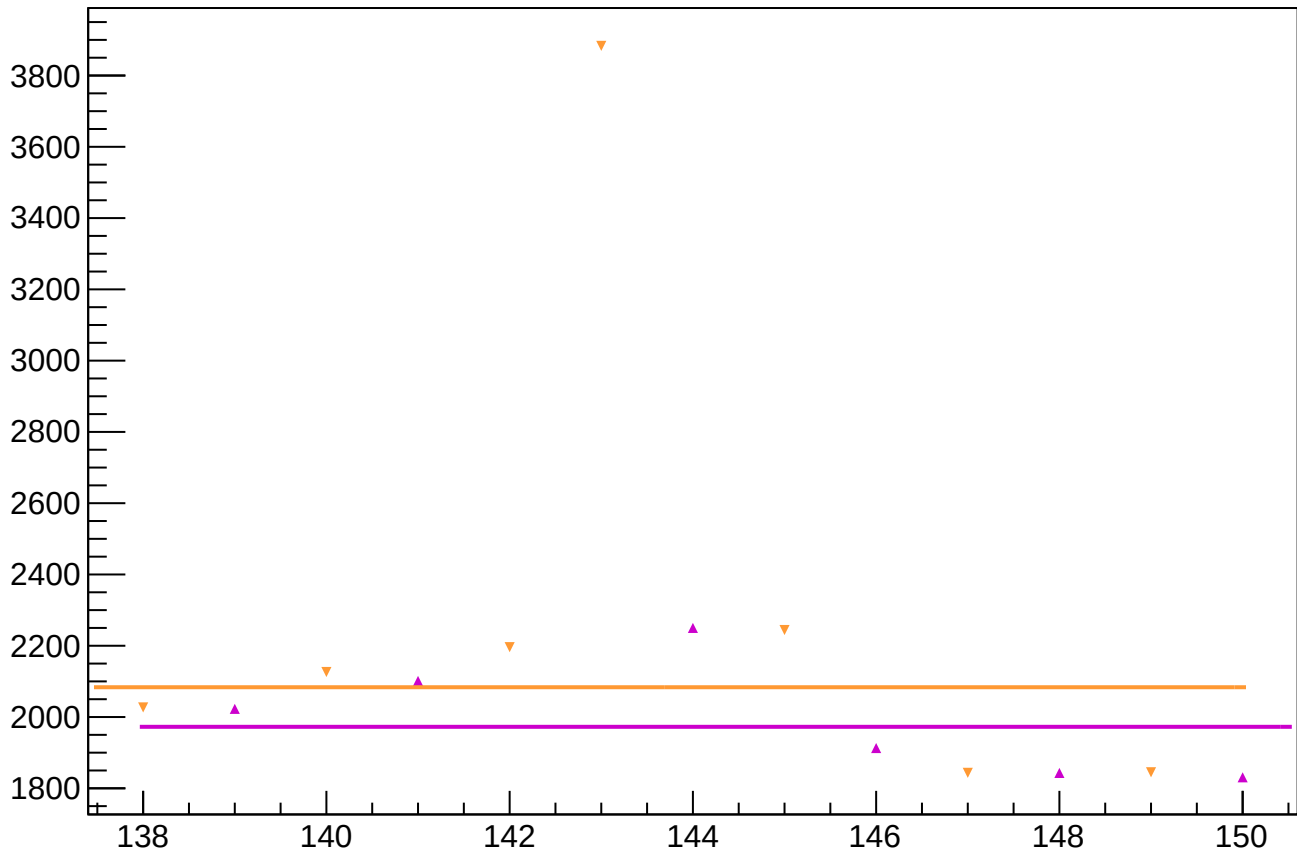
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3344.149+/-892.607  $\chi^2/\text{NDF}$ :2.3/5

Out: 323.950+/-952.351  $\chi^2/\text{NDF}$ :11.0/6

All: 1931.747+/-651.266  $\chi^2/\text{NDF}$ : 18.6/12

# reg\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 2083.593+/-0.673  $\chi^2/\text{NDF}$ :350293.3/6

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

Left In: 1972.563+/-0.631  $\chi^2/\text{NDF}$ :53242.7/5

Left: 2024.486+/-0.461  $\chi^2/\text{NDF}$ : 418007.5/12

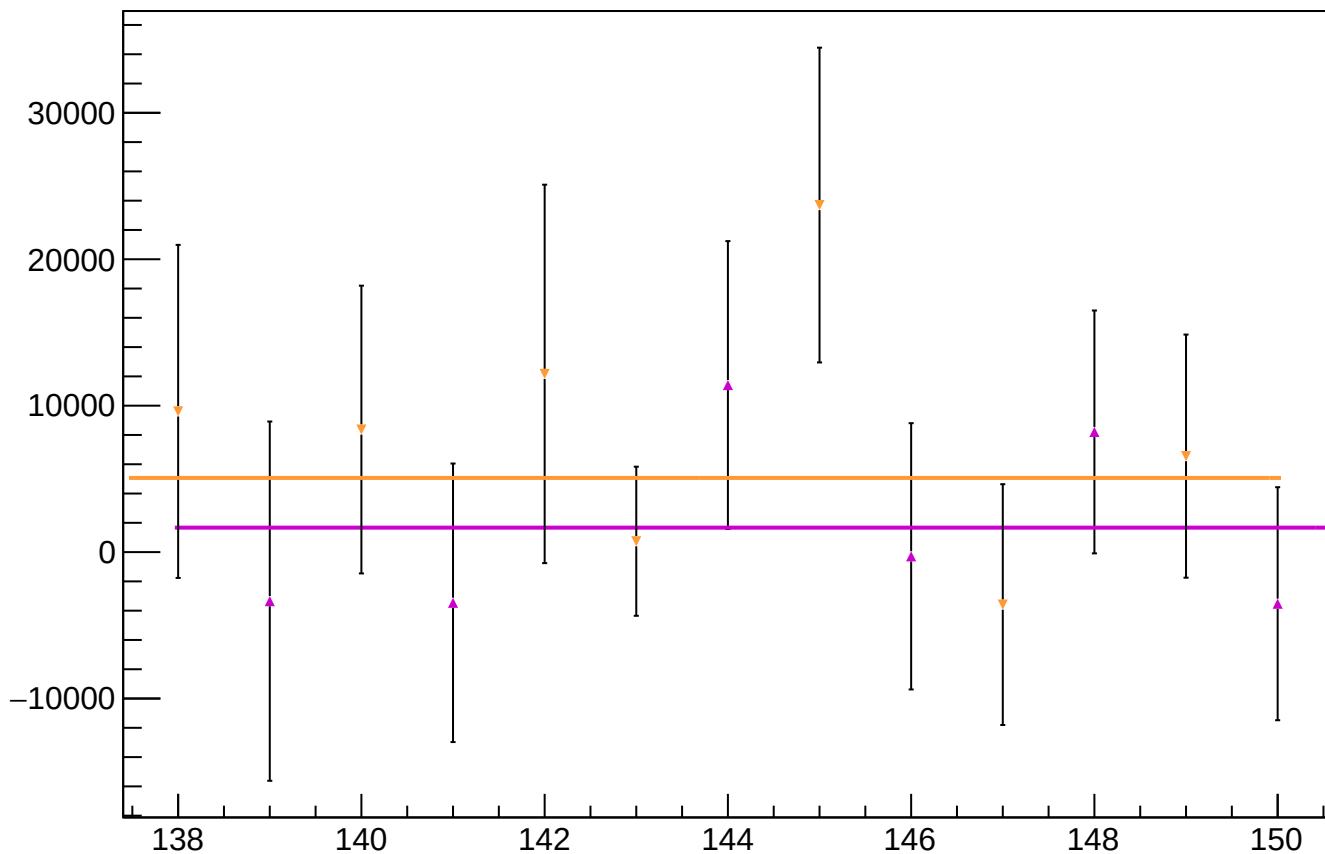
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1972.563+/-0.631  $\chi^2/\text{NDF}$ :53242.7/5

Out: 2083.593+/-0.673  $\chi^2/\text{NDF}$ :350293.3/6

All: 2024.486+/-0.461  $\chi^2/\text{NDF}$ : 418007.5/12

asym\_at2\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 5066.198+/-3152.682  $\chi^2/\text{NDF}$ :5.4/6

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

Left In: 1670.273+/-3766.887  $\chi^2/\text{NDF}$ :2.5/5

Left: 3667.313+/-2417.656  $\chi^2/\text{NDF}$ : 8.5/12

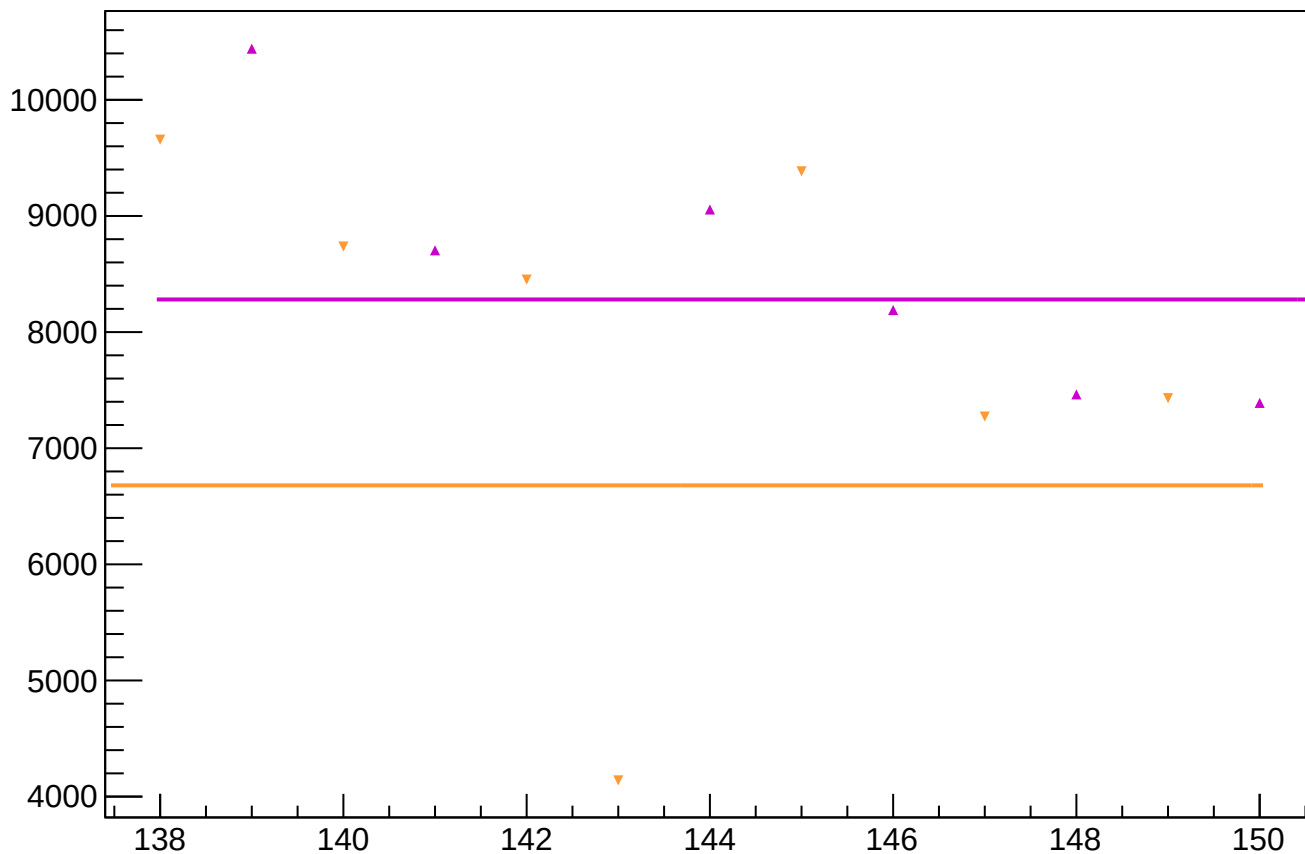
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1670.273+/-3766.887  $\chi^2/\text{NDF}$ :2.5/5

Out: 5066.198+/-3152.682  $\chi^2/\text{NDF}$ :5.4/6

All: 3667.313+/-2417.656  $\chi^2/\text{NDF}$ : 8.5/12

asym\_at2\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 6680.238+/-2.229  $\chi^2/\text{NDF}$ :913573.9/6

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

Left In: 8281.007+/-2.664  $\chi^2/\text{NDF}$ :123052.5/5

Left: 7339.643+/-1.710  $\chi^2/\text{NDF}$ : 1249024.6/12

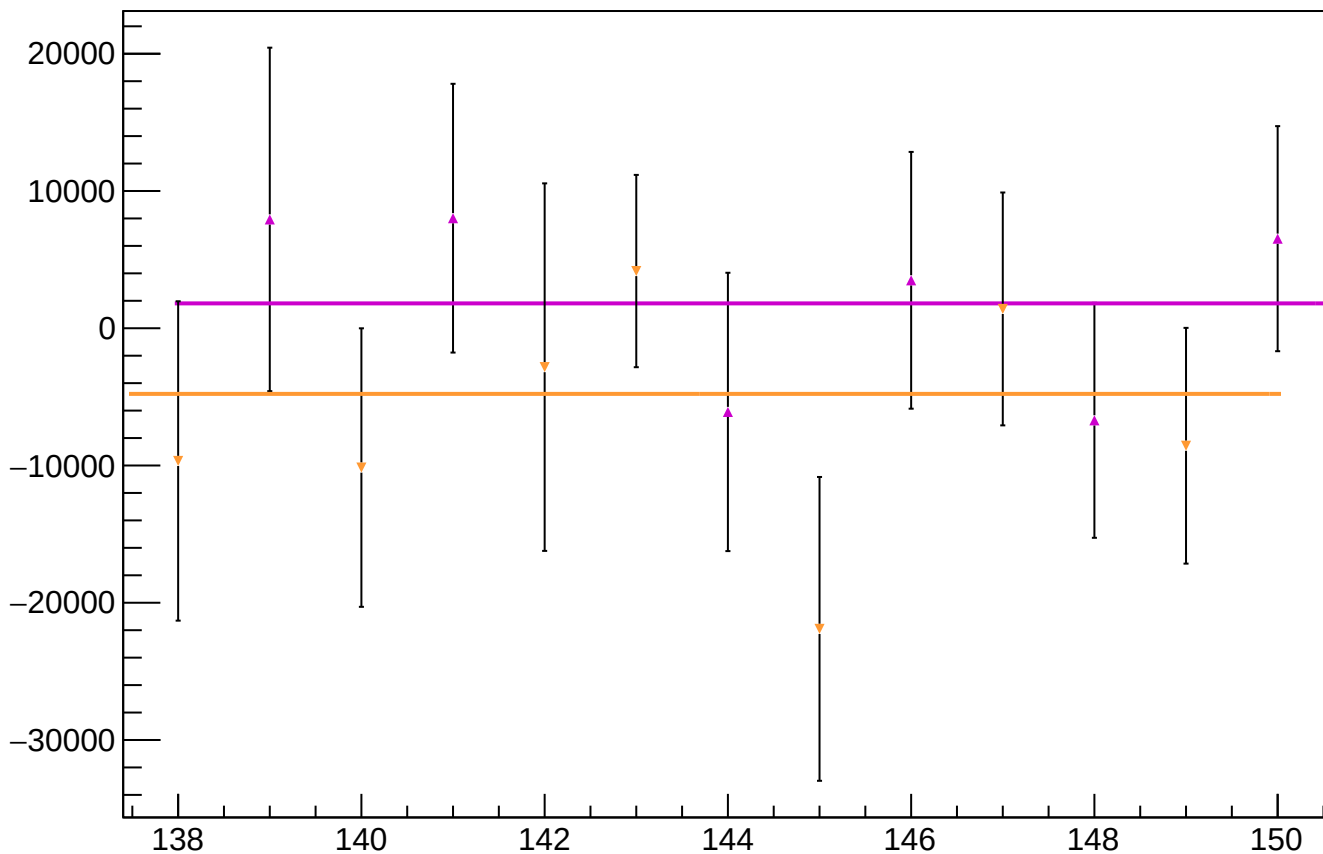
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8281.007+/-2.664  $\chi^2/\text{NDF}$ :123052.5/5

Out: 6680.238+/-2.229  $\chi^2/\text{NDF}$ :913573.9/6

All: 7339.643+/-1.710  $\chi^2/\text{NDF}$ : 1249024.6/12

# asym\_at2\_avg\_mean vs Slug, Sign Corrected



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

Left Out: -4782.534+/-3565.375  $\chi^2/\text{NDF}$ :5.2/6

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

Left In: 1811.399+/-3877.963  $\chi^2/\text{NDF}$ :2.6/5

Left: -1761.996+/-2624.663  $\chi^2/\text{NDF}$ : 9.4/12

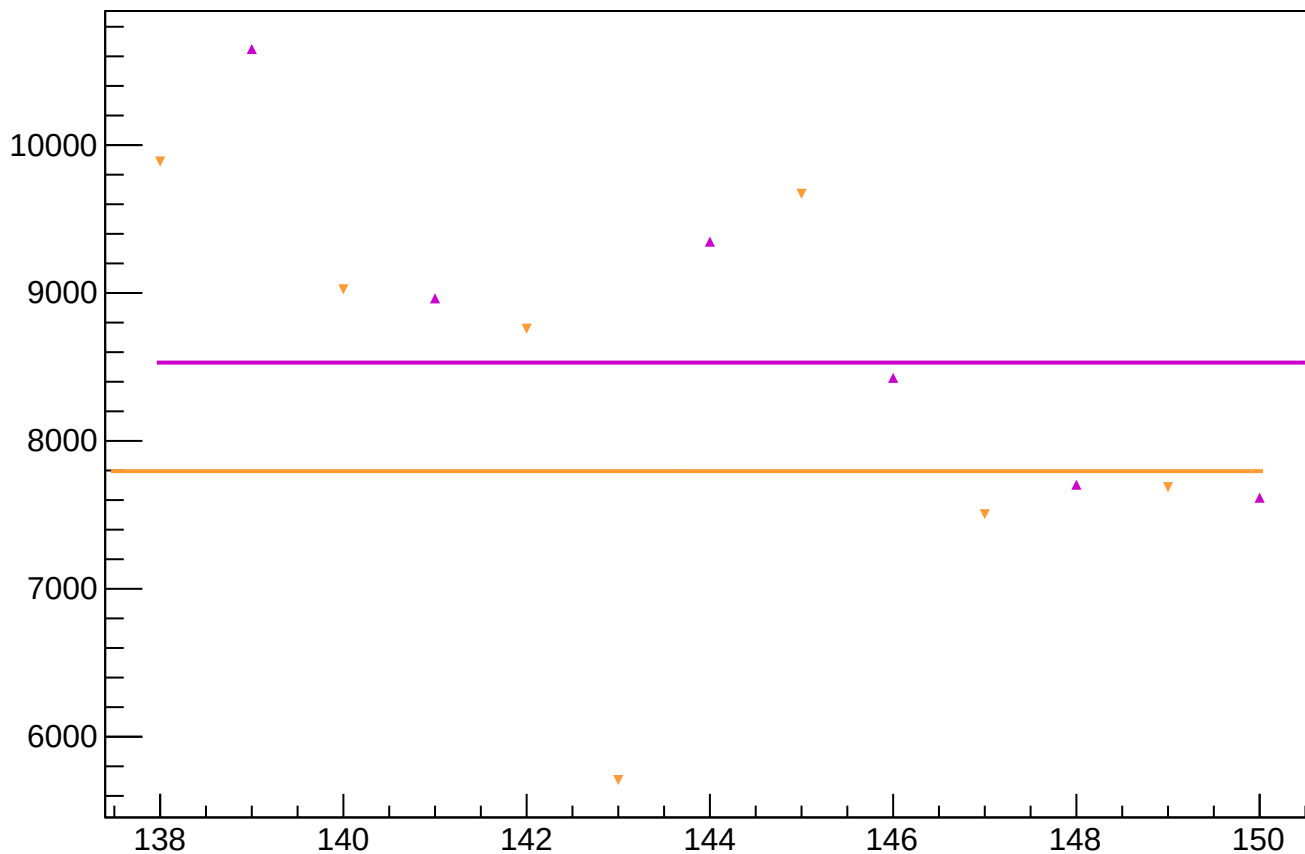
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1811.399+/-3877.963  $\chi^2/\text{NDF}$ :2.6/5

Out: -4782.534+/-3565.375  $\chi^2/\text{NDF}$ :5.2/6

All: -1761.996+/-2624.663  $\chi^2/\text{NDF}$ : 9.4/12

# asym\_at2\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 7795.672+/-2.521  $\chi^2/\text{NDF}$ :342225.1/6

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

Left In: 8529.516+/-2.742  $\chi^2/\text{NDF}$ :118023.5/5

Left: 8131.830+/-1.856  $\chi^2/\text{NDF}$ : 499060.7/12

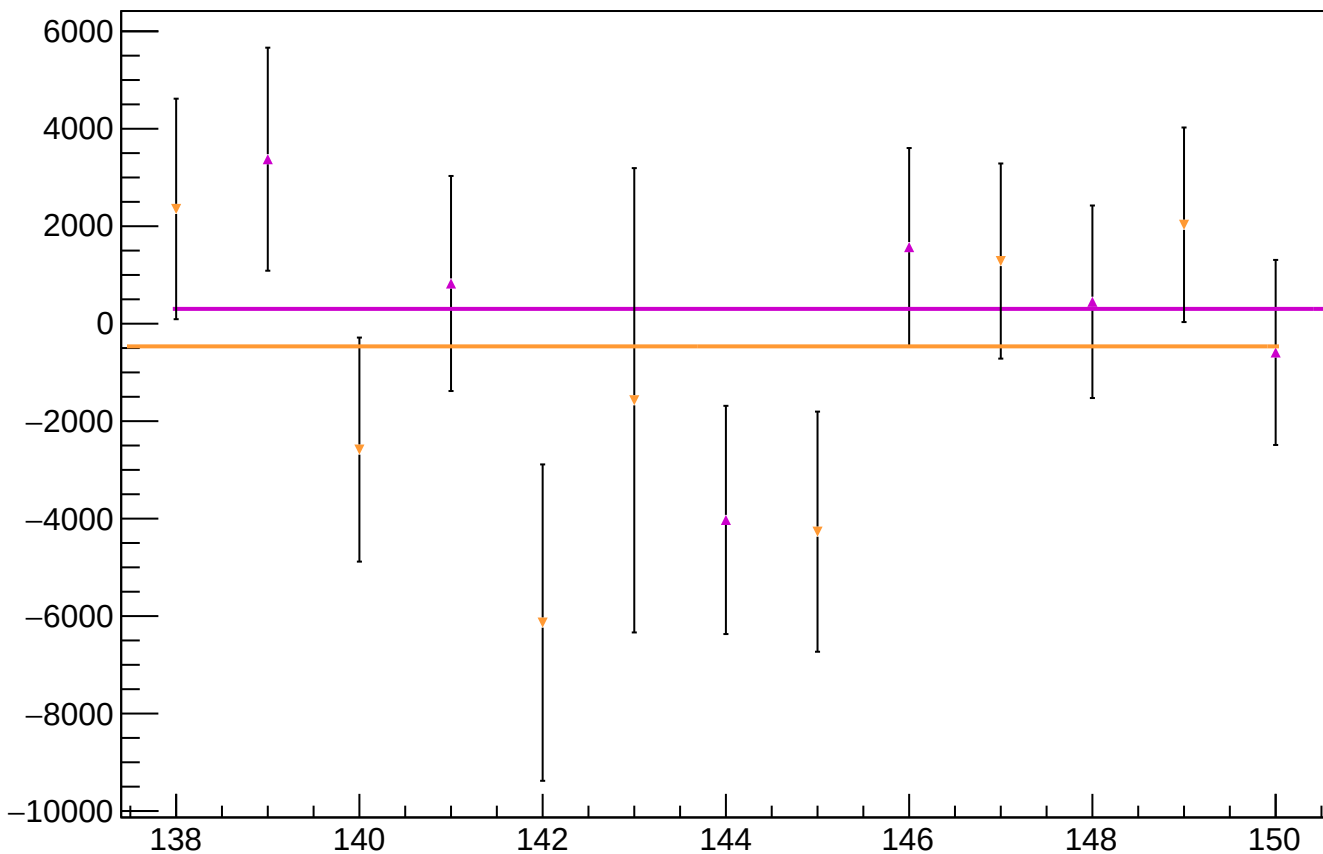
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8529.516+/-2.742  $\chi^2/\text{NDF}$ :118023.5/5

Out: 7795.672+/-2.521  $\chi^2/\text{NDF}$ :342225.1/6

All: 8131.830+/-1.856  $\chi^2/\text{NDF}$ : 499060.7/12

# reg\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -465.521+/-917.194  $\chi^2/\text{NDF}$ :10.2/6

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

Left In: 303.615+/-859.260  $\chi^2/\text{NDF}$ :5.9/5

Left: -55.897+/-627.070  $\chi^2/\text{NDF}$ : 16.5/12

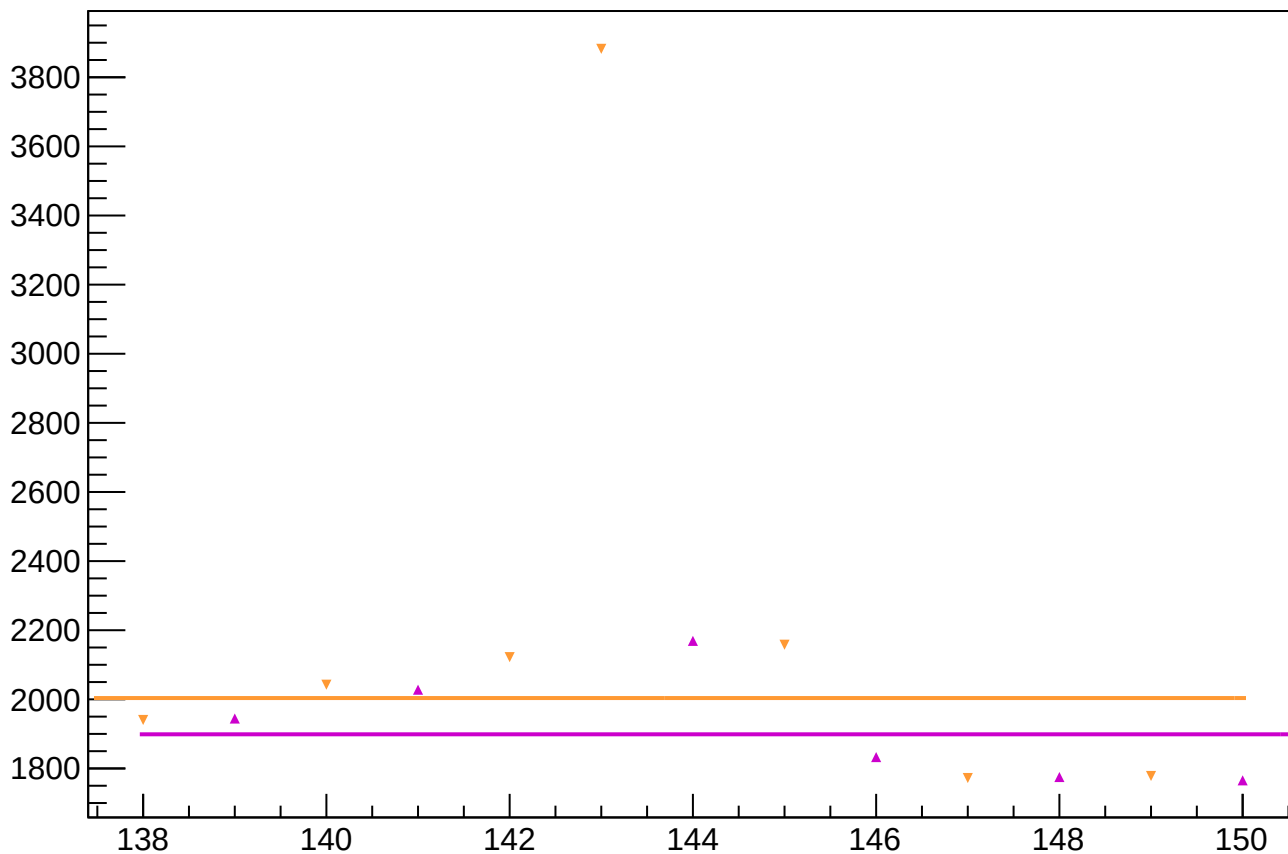
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 303.615+/-859.260  $\chi^2/\text{NDF}$ :5.9/5

Out: -465.521+/-917.194  $\chi^2/\text{NDF}$ :10.2/6

All: -55.897+/-627.070  $\chi^2/\text{NDF}$ : 16.5/12

# reg\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 2003.747+/-0.649  $\chi^2/\text{NDF}$ :375839.9/6

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

Left In: 1898.835+/-0.608  $\chi^2/\text{NDF}$ :54087.0/5

Left: 1947.873+/-0.443  $\chi^2/\text{NDF}$ : 443863.1/12

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

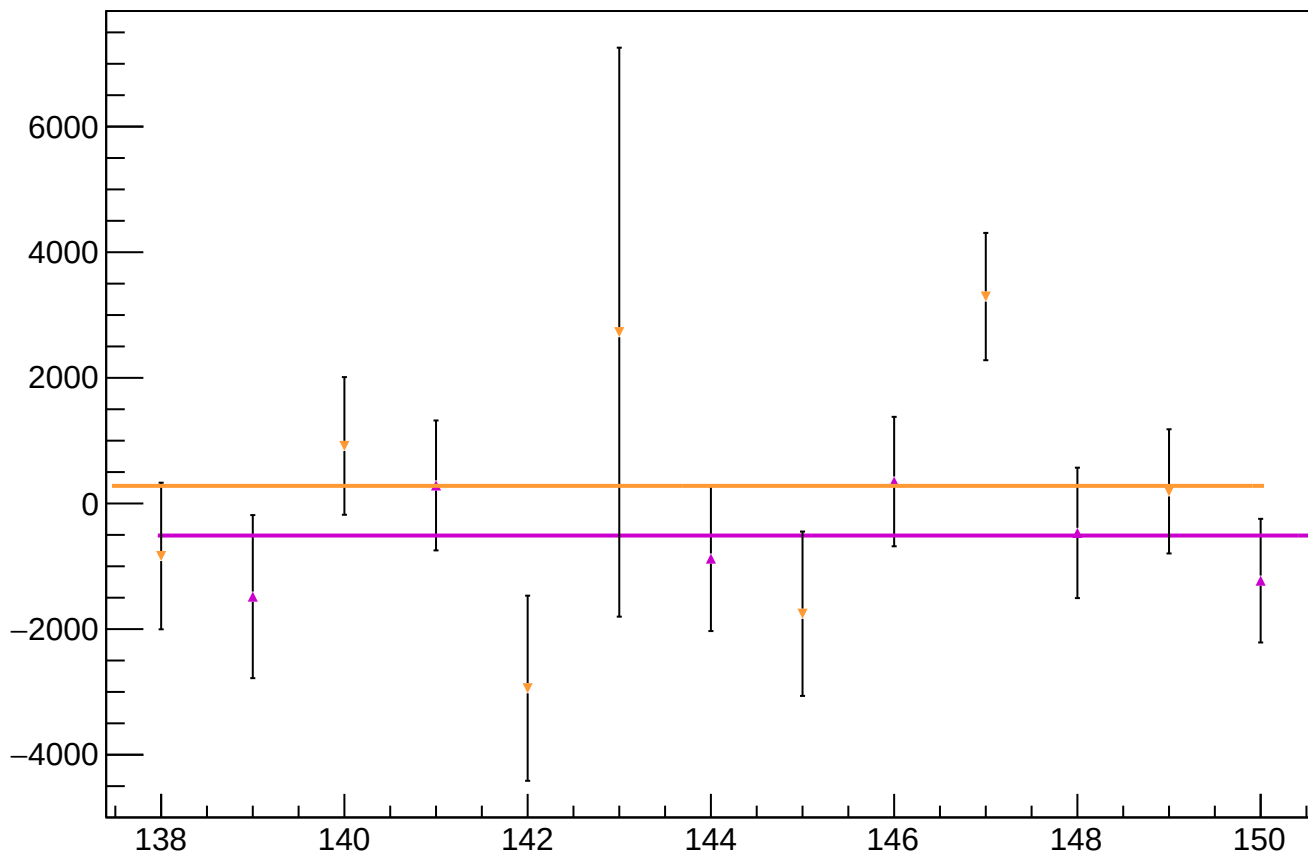
In: 1898.835+/-0.608  $\chi^2/\text{NDF}$ :54087.0/5

Out: 2003.747+/-0.649  $\chi^2/\text{NDF}$ :375839.9/6

All: 1947.873+/-0.443  $\chi^2/\text{NDF}$ : 443863.1/12



asym\_at2\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 280.560+/-463.376  $\chi^2/\text{NDF}$ :17.6/6

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

Left In: -510.375+/-439.308  $\chi^2/\text{NDF}$ :2.5/5

Left: -135.981+/-318.807  $\chi^2/\text{NDF}$ : 21.6/12

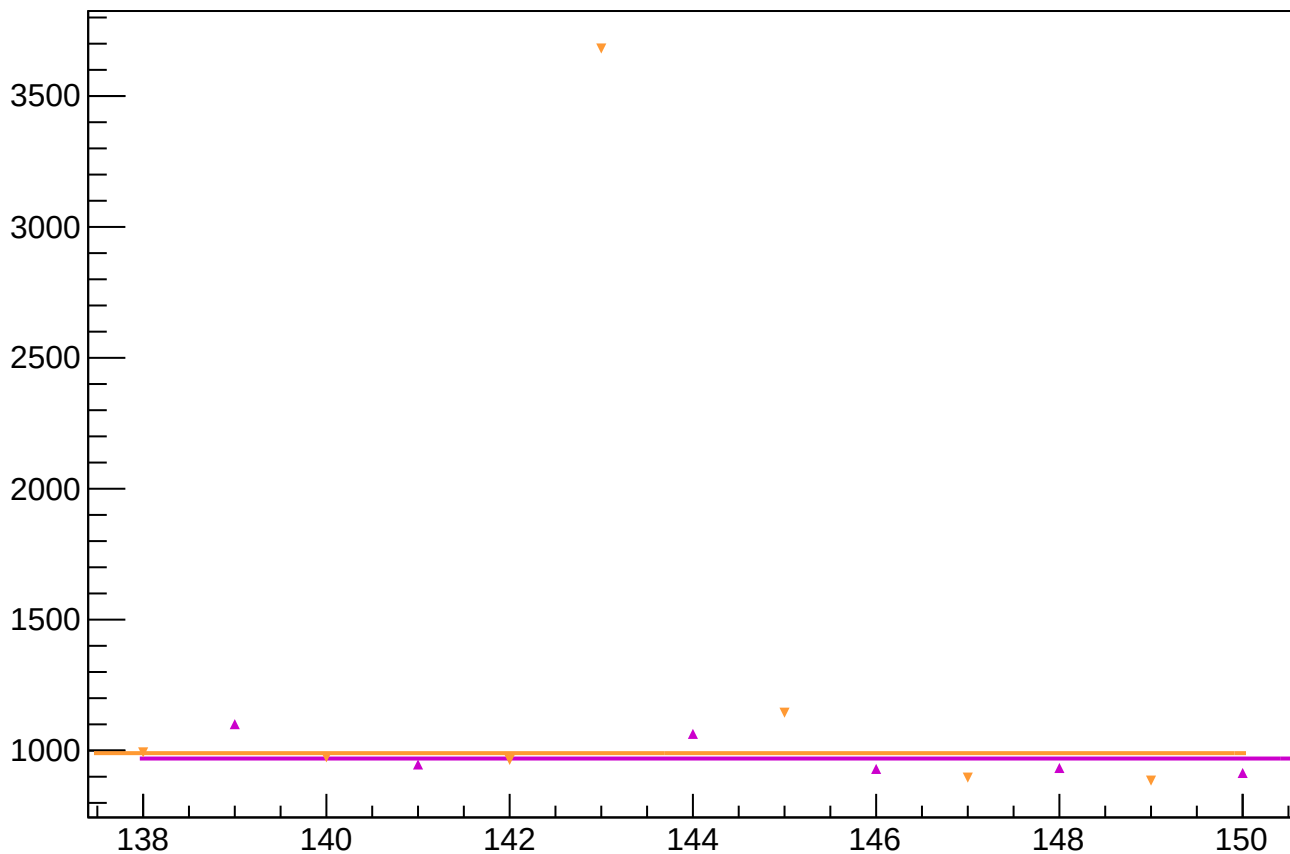
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -510.375+/-439.308  $\chi^2/\text{NDF}$ :2.5/5

Out: 280.560+/-463.376  $\chi^2/\text{NDF}$ :17.6/6

All: -135.981+/-318.807  $\chi^2/\text{NDF}$ : 21.6/12

asym\_at2\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 990.035+/-0.328  $\chi^2/\text{NDF}$ :774780.3/6

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

Left In: 969.454+/-0.311  $\chi^2/\text{NDF}$ :46413.7/5

Left: 979.196+/-0.225  $\chi^2/\text{NDF}$ : 823271.7/12

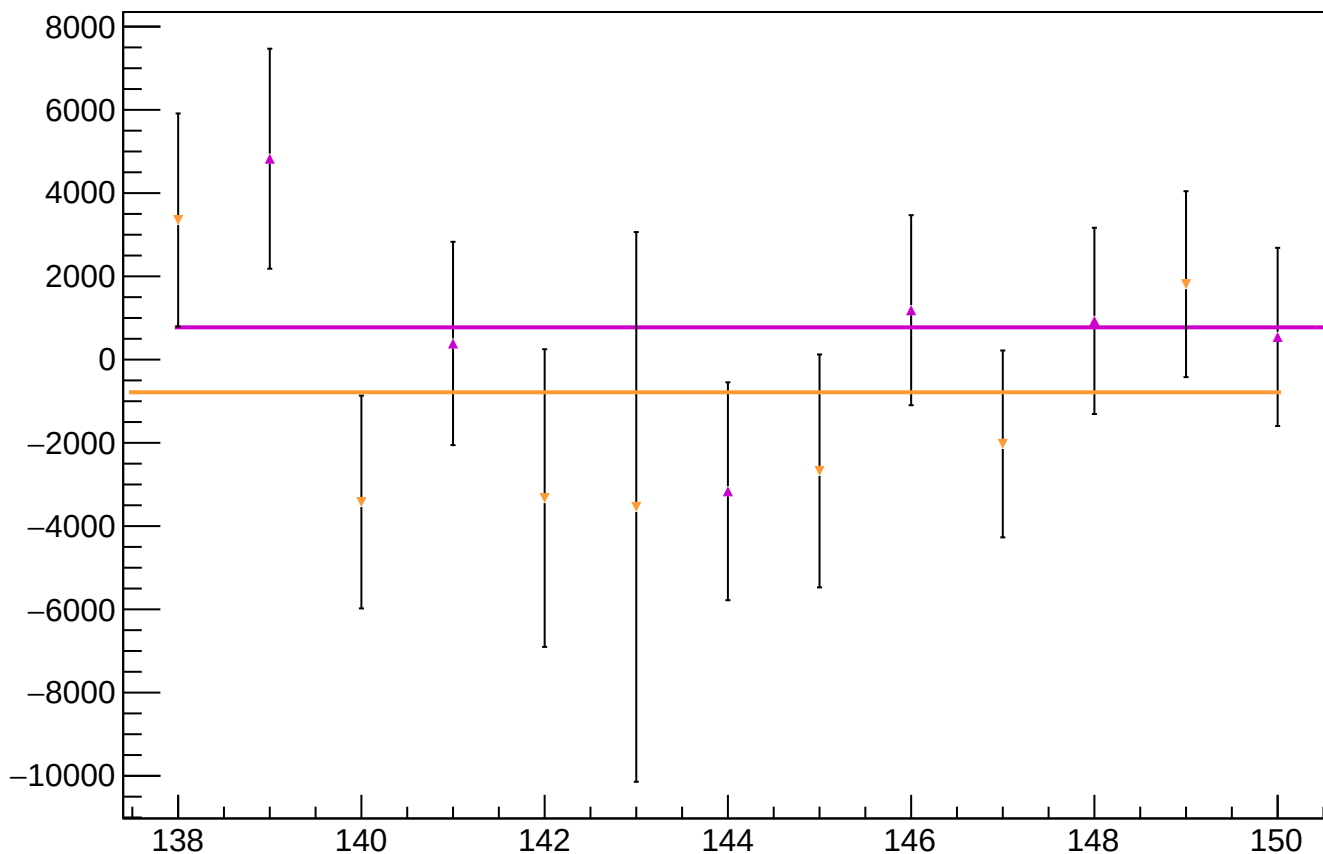
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 969.454+/-0.311  $\chi^2/\text{NDF}$ :46413.7/5

Out: 990.035+/-0.328  $\chi^2/\text{NDF}$ :774780.3/6

All: 979.196+/-0.225  $\chi^2/\text{NDF}$ : 823271.7/12

# asym\_at2\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -785.613+/-1035.063  $\chi^2/\text{NDF}$ : 6.5/6

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

Left In: 774.994+/-968.228  $\chi^2/\text{NDF}$ : 4.7/5

Left: 46.699+/-707.089  $\chi^2/\text{NDF}$ : 12.4/12

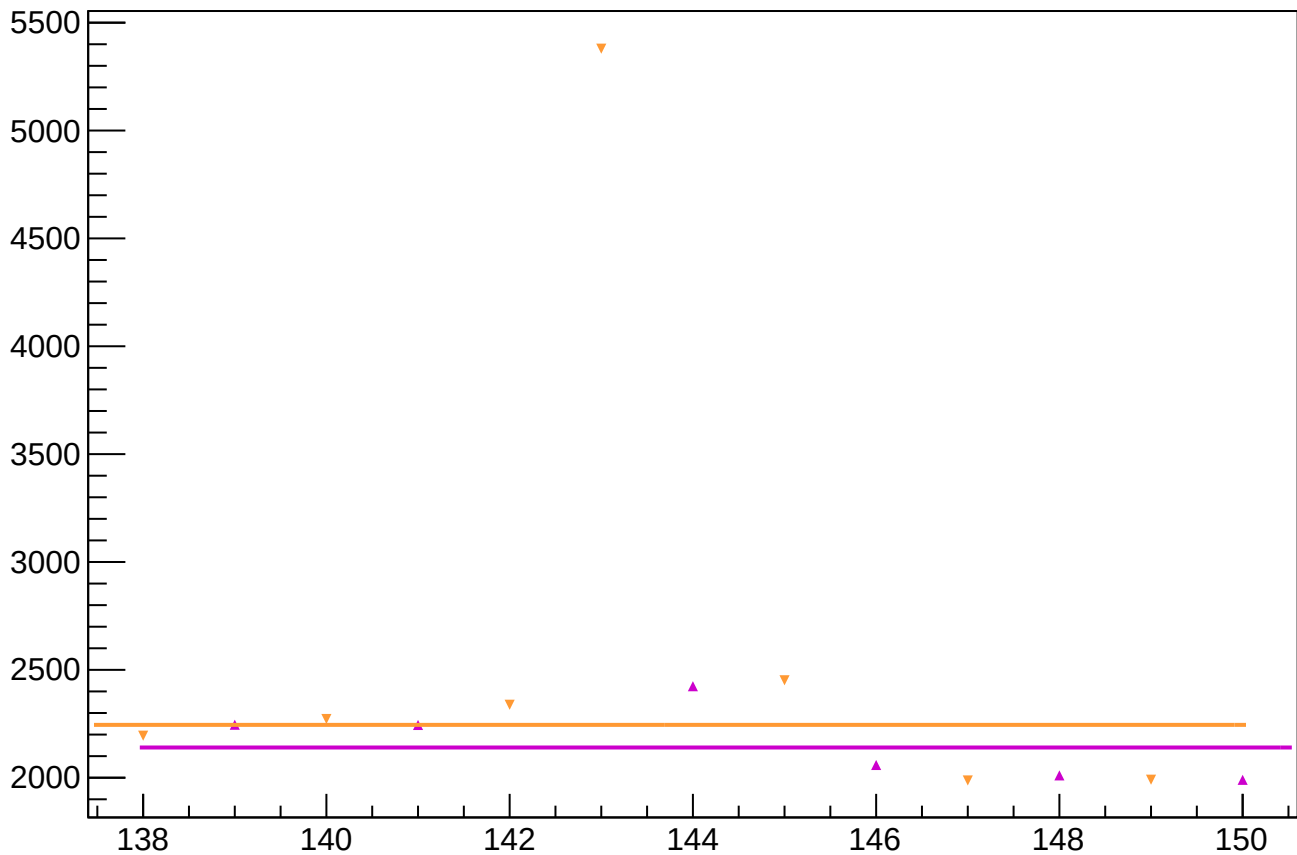
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 774.994+/-968.228  $\chi^2/\text{NDF}$ : 4.7/5

Out: -785.613+/-1035.063  $\chi^2/\text{NDF}$ : 6.5/6

All: 46.699+/-707.089  $\chi^2/\text{NDF}$ : 12.4/12

# asym\_at2\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 2244.978+/-0.732  $\chi^2/\text{NDF}$ : 516153.9/6

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

Left In: 2140.072+/-0.685  $\chi^2/\text{NDF}$ : 49403.5/5

Left: 2189.029+/-0.500  $\chi^2/\text{NDF}$ : 576514.3/12

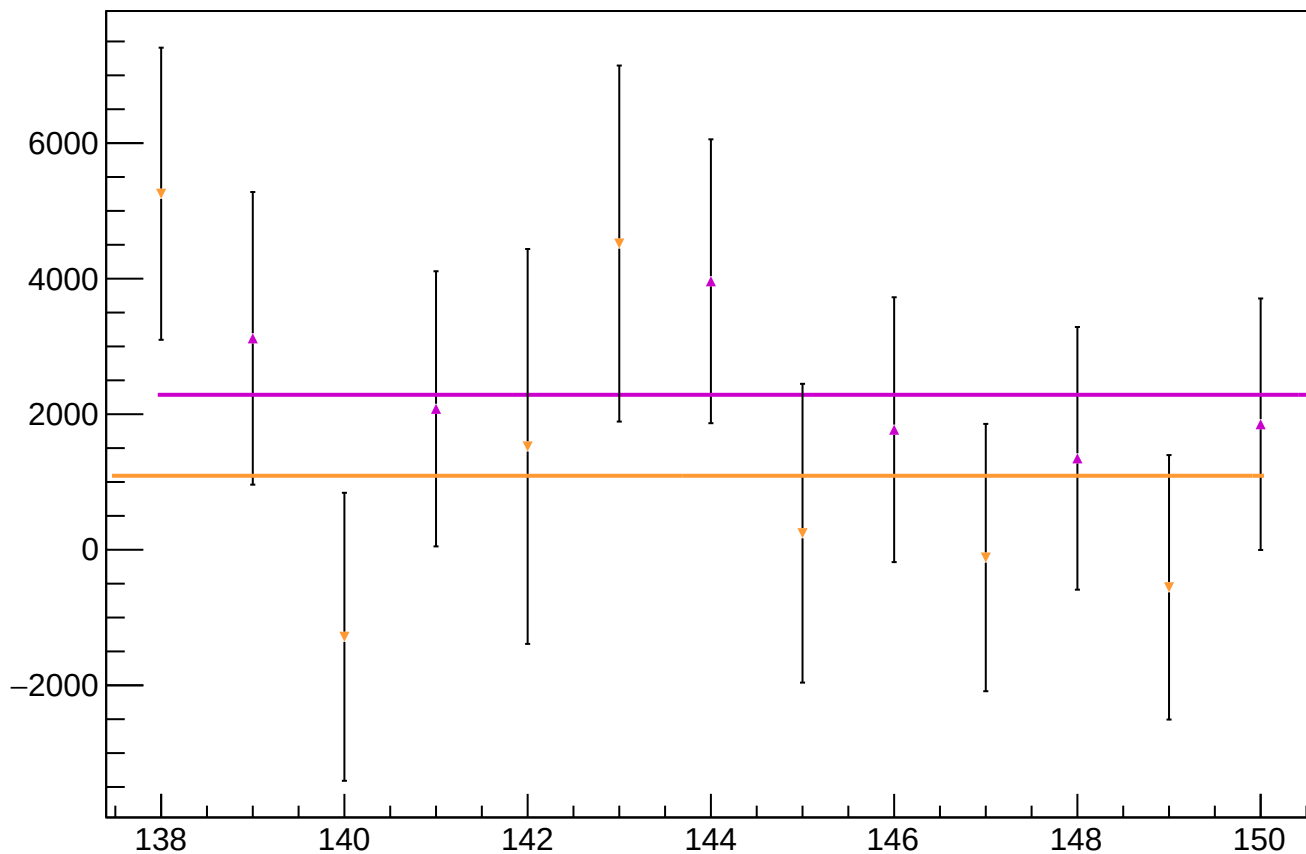
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2140.072+/-0.685  $\chi^2/\text{NDF}$ : 49403.5/5

Out: 2244.978+/-0.732  $\chi^2/\text{NDF}$ : 516153.9/6

All: 2189.029+/-0.500  $\chi^2/\text{NDF}$ : 576514.3/12

# reg\_asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1091.923+/-837.664  $\chi^2/\text{NDF}$ : 7.9/6

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

Left In: 2286.343+/-815.424  $\chi^2/\text{NDF}$ : 1.2/5

Left: 1705.199+/-584.296  $\chi^2/\text{NDF}$ : 10.1/12

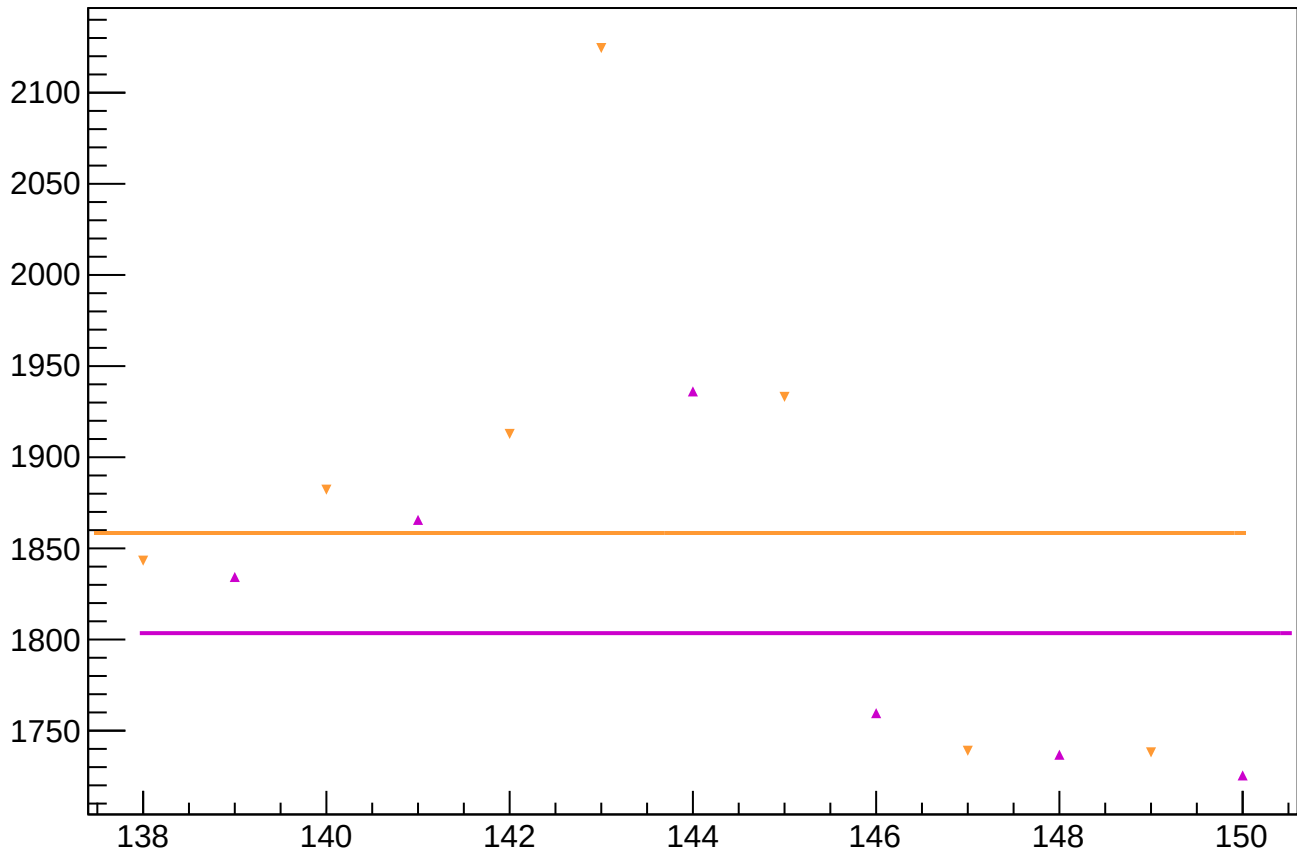
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2286.343+/-815.424  $\chi^2/\text{NDF}$ : 1.2/5

Out: 1091.923+/-837.664  $\chi^2/\text{NDF}$ : 7.9/6

All: 1705.199+/-584.296  $\chi^2/\text{NDF}$ : 10.1/12

reg\_asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 1858.443+/-0.592  $\chi^2/\text{NDF}$ :38807.6/6

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

Left In: 1803.504+/-0.577  $\chi^2/\text{NDF}$ :17219.7/5

Left: 1830.234+/-0.413  $\chi^2/\text{NDF}$ : 60444.5/12

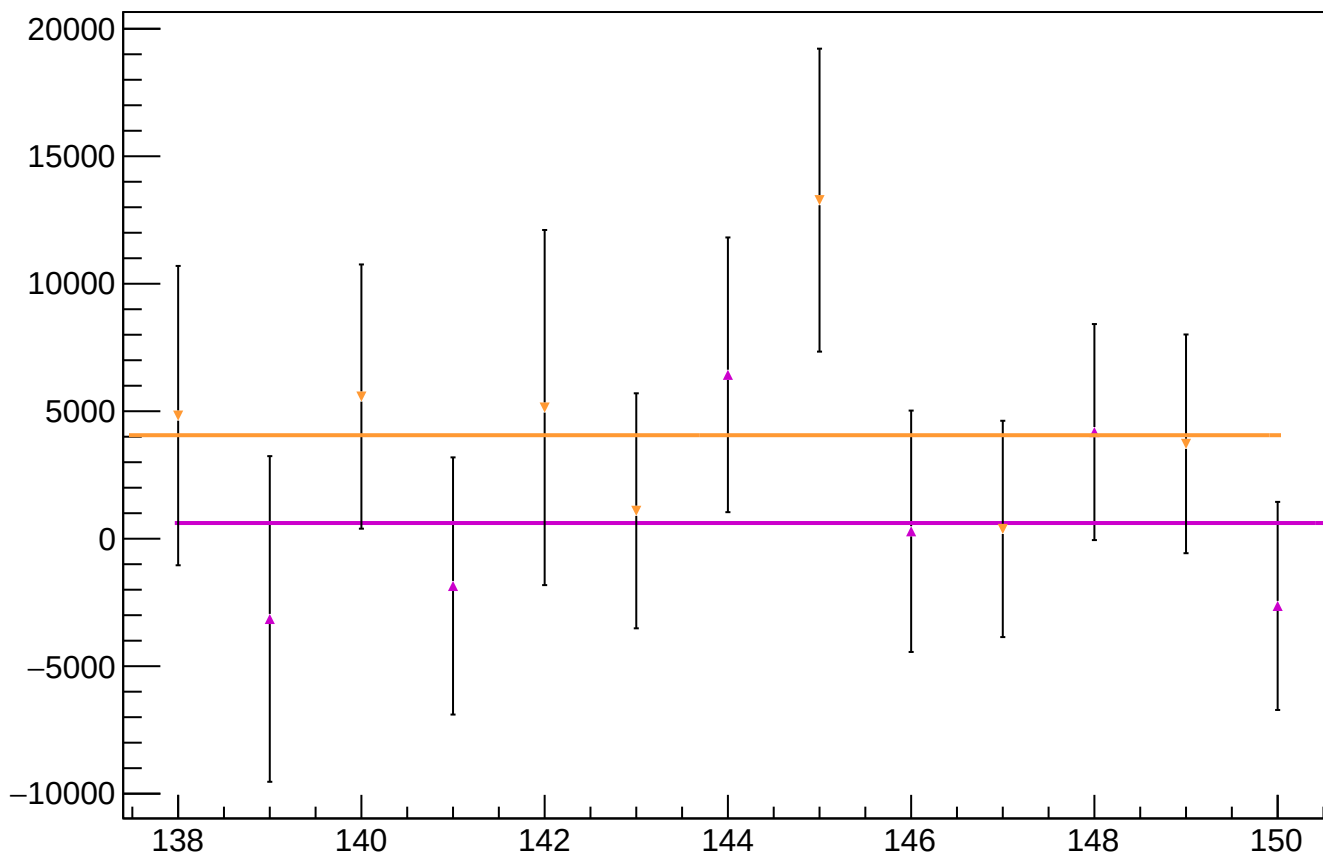
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1803.504+/-0.577  $\chi^2/\text{NDF}$ :17219.7/5

Out: 1858.443+/-0.592  $\chi^2/\text{NDF}$ :38807.6/6

All: 1830.234+/-0.413  $\chi^2/\text{NDF}$ : 60444.5/12

asym\_atl1r2\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 4059.531+/-1916.653  $\chi^2/\text{NDF}$ : 3.7/6

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

Left In: 615.359+/-1966.110  $\chi^2/\text{NDF}$ : 3.1/5

Left: 2381.308+/-1372.430  $\chi^2/\text{NDF}$ : 8.4/12

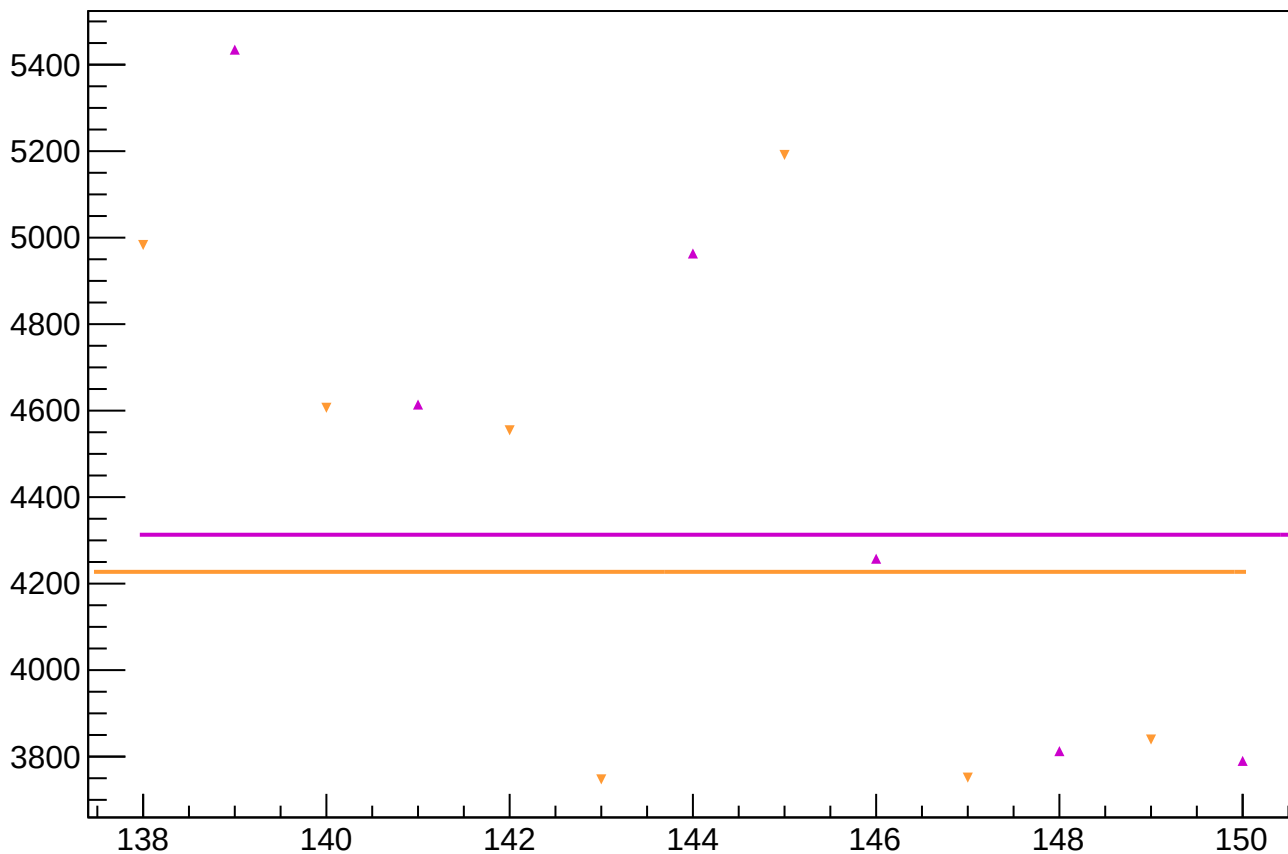
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 615.359+/-1966.110  $\chi^2/\text{NDF}$ : 3.1/5

Out: 4059.531+/-1916.653  $\chi^2/\text{NDF}$ : 3.7/6

All: 2381.308+/-1372.430  $\chi^2/\text{NDF}$ : 8.4/12

asym\_atl1r2\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 4227.259+/-1.355  $\chi^2/\text{NDF}$ :164135.8/6

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

Left In: 4313.033+/-1.390  $\chi^2/\text{NDF}$ :158992.2/5

Left: 4269.053+/-0.970  $\chi^2/\text{NDF}$ : 325079.7/12

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

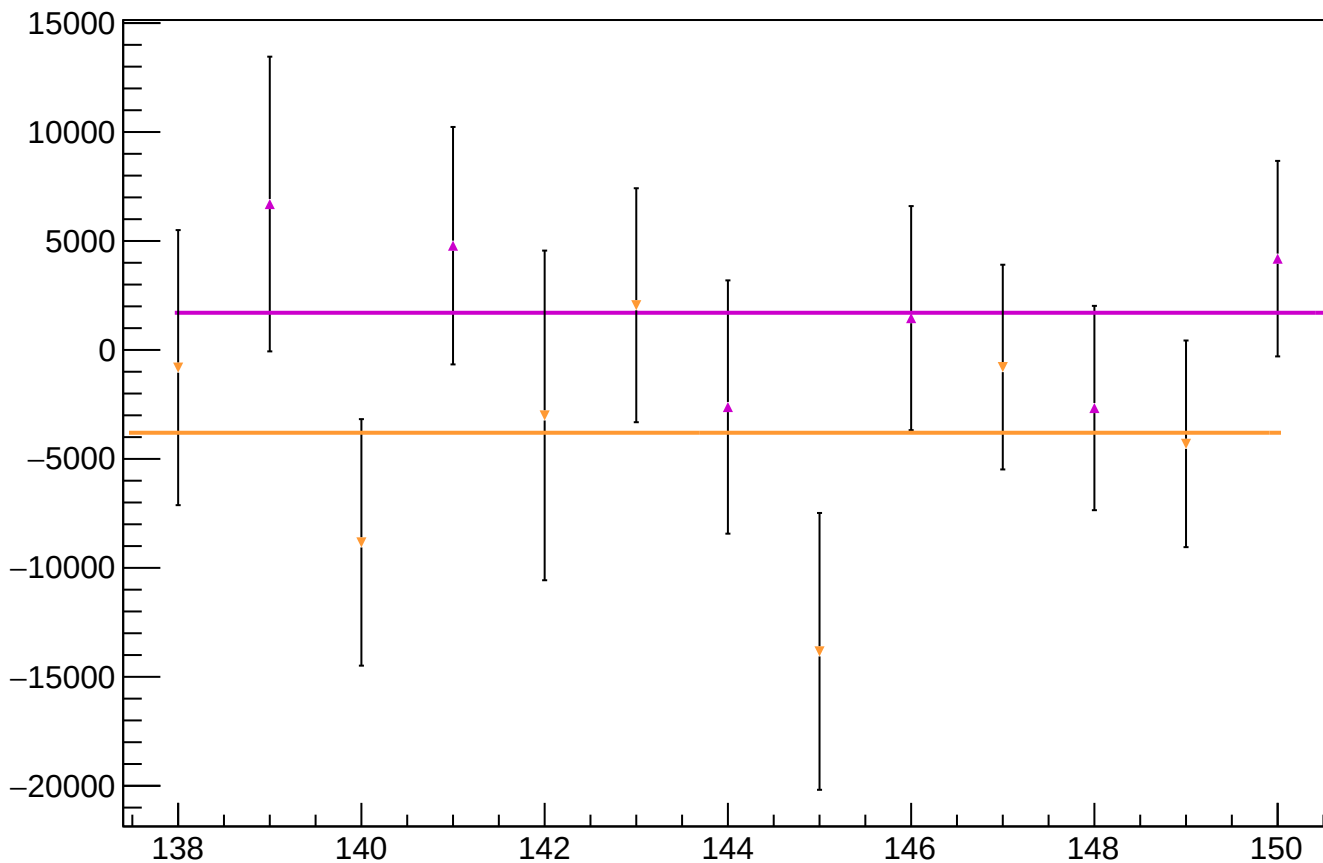
In: 4313.033+/-1.390  $\chi^2/\text{NDF}$ :158992.2/5

Out: 4227.259+/-1.355  $\chi^2/\text{NDF}$ :164135.8/6

All: 4269.053+/-0.970  $\chi^2/\text{NDF}$ : 325079.7/12



# asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



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

Left Out: -3799.446+/-2116.877  $\chi^2/\text{NDF}$ : 5.1/6

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

Left In: 1706.051+/-2140.712  $\chi^2/\text{NDF}$ : 2.6/5

Left: -1077.518+/-1505.214  $\chi^2/\text{NDF}$ : 11.1/12

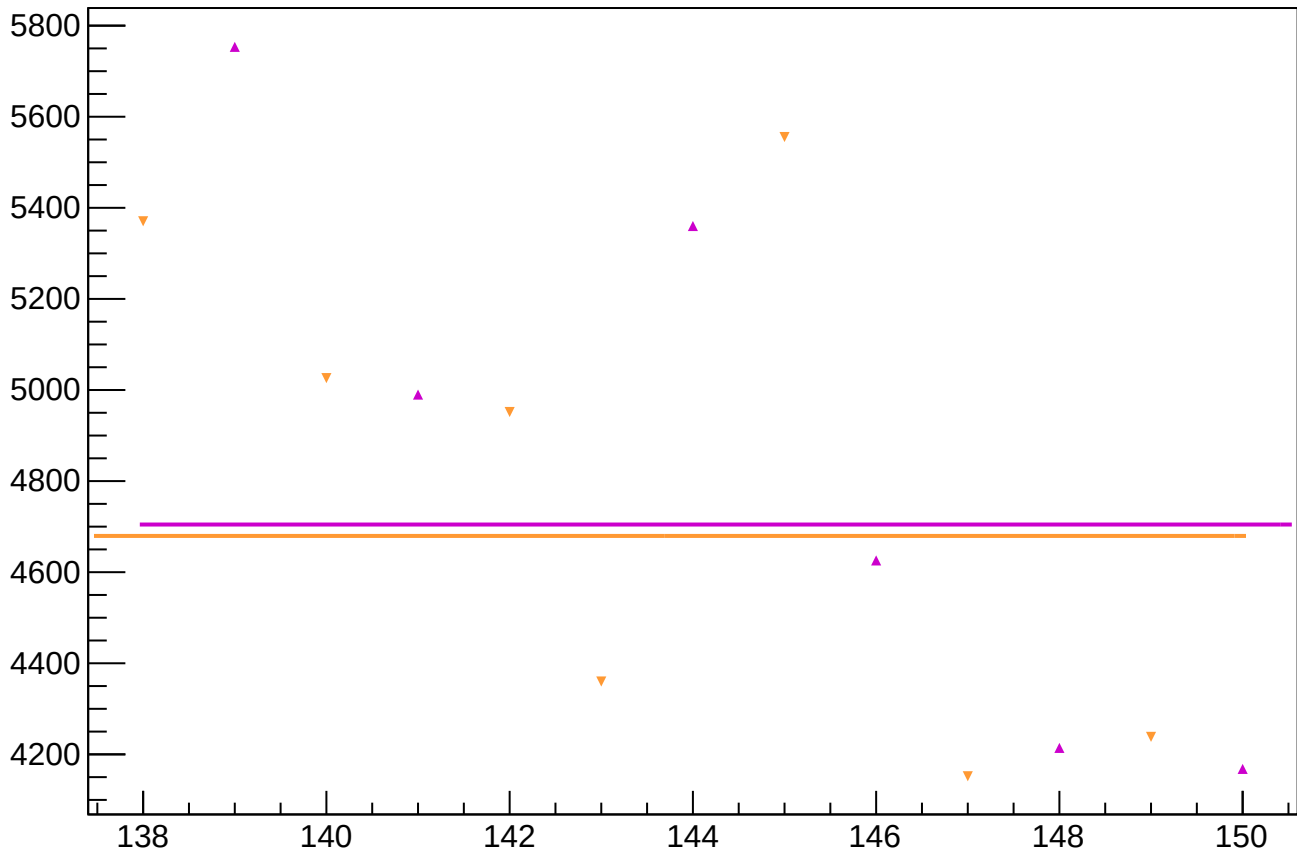
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1706.051+/-2140.712  $\chi^2/\text{NDF}$ : 2.6/5

Out: -3799.446+/-2116.877  $\chi^2/\text{NDF}$ : 5.1/6

All: -1077.518+/-1505.214  $\chi^2/\text{NDF}$ : 11.1/12

# asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 4679.604+/-1.497  $\chi^2/\text{NDF}$ :121749.7/6

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

Left In: 4704.639+/-1.514  $\chi^2/\text{NDF}$ :130009.9/5

Left: 4691.981+/-1.064  $\chi^2/\text{NDF}$ : 251897.9/12

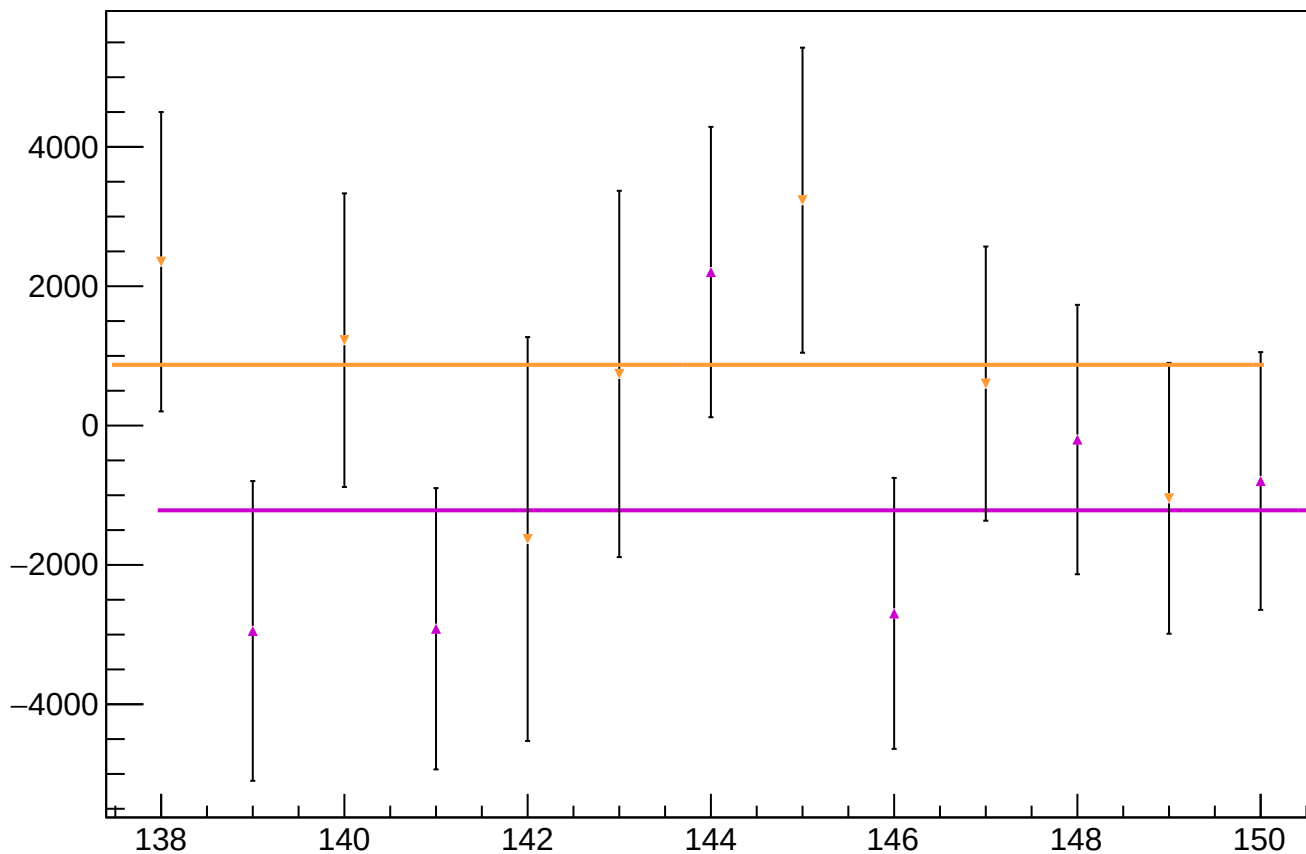
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4704.639+/-1.514  $\chi^2/\text{NDF}$ :130009.9/5

Out: 4679.604+/-1.497  $\chi^2/\text{NDF}$ :121749.7/6

All: 4691.981+/-1.064  $\chi^2/\text{NDF}$ : 251897.9/12

reg\_asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 871.876+/-834.162  $\chi^2/\text{NDF}$ :3.4/6

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

Left In: -1216.382+/-812.172  $\chi^2/\text{NDF}$ :5.0/5

Left: -200.140+/-581.911  $\chi^2/\text{NDF}$ : 11.6/12

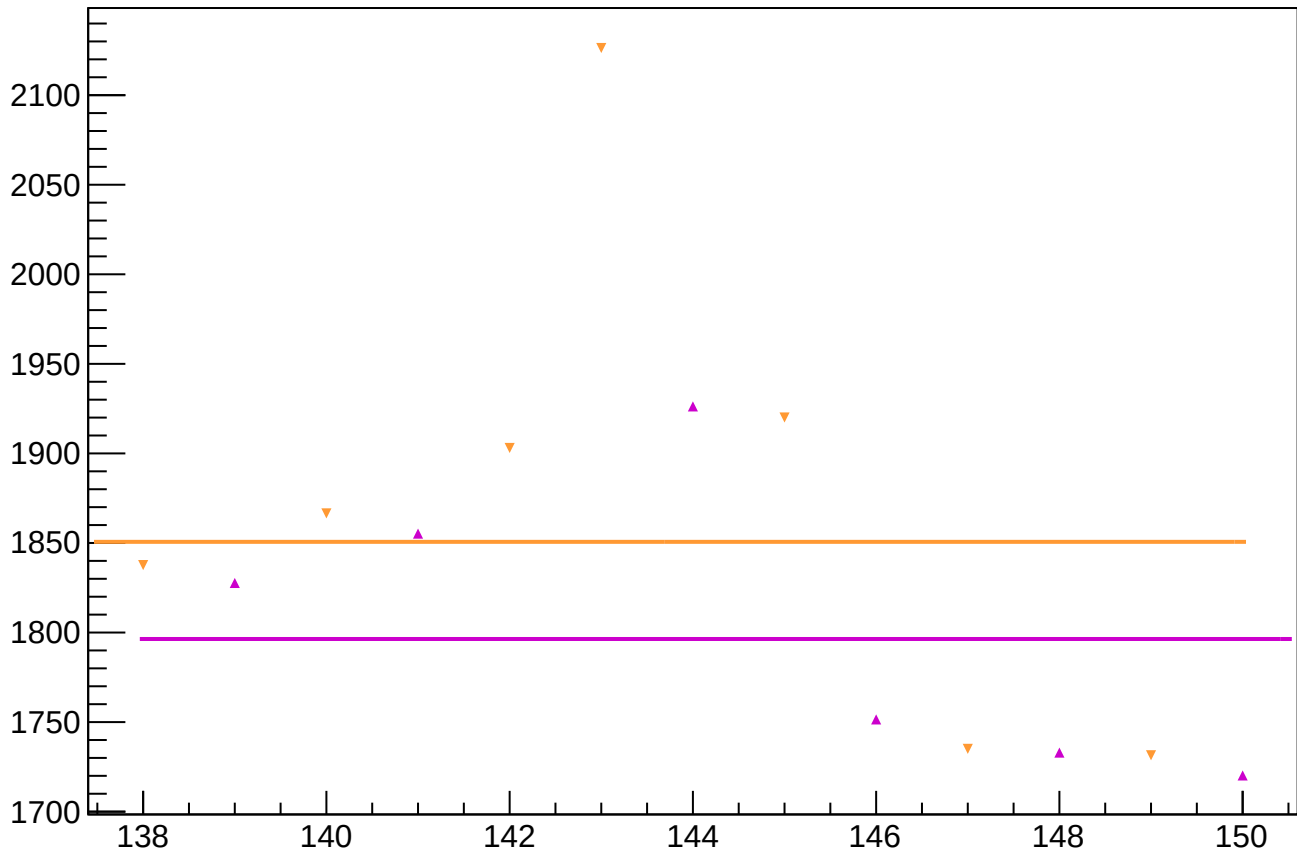
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1216.382+/-812.172  $\chi^2/\text{NDF}$ :5.0/5

Out: 871.876+/-834.162  $\chi^2/\text{NDF}$ :3.4/6

All: -200.140+/-581.911  $\chi^2/\text{NDF}$ : 11.6/12

# reg\_asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1850.634+/-0.590  $\chi^2/\text{NDF}$ :39262.3/6

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

Left In: 1796.397+/-0.574  $\chi^2/\text{NDF}$ :16499.5/5

Left: 1822.791+/-0.411  $\chi^2/\text{NDF}$ : 60102.2/12

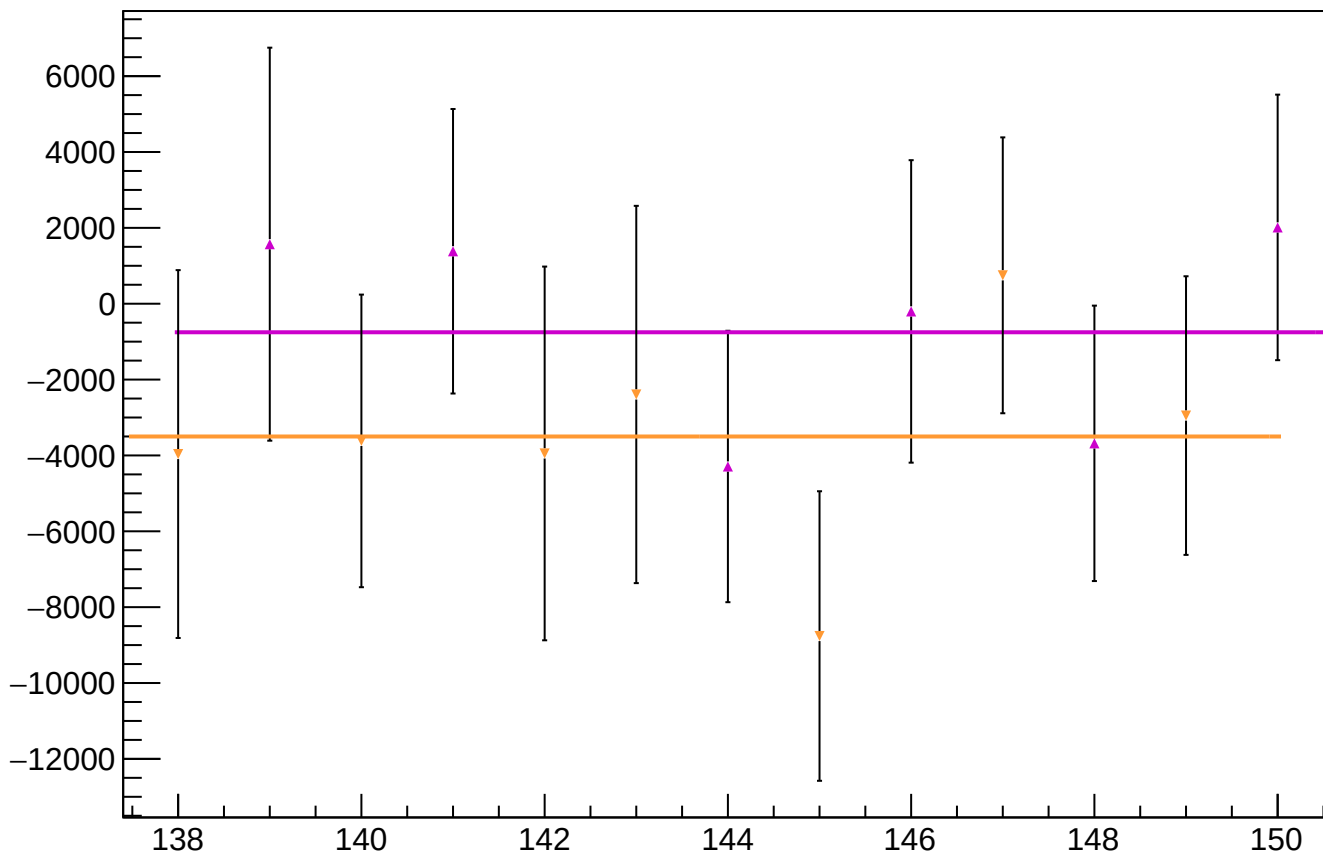
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1796.397+/-0.574  $\chi^2/\text{NDF}$ :16499.5/5

Out: 1850.634+/-0.590  $\chi^2/\text{NDF}$ :39262.3/6

All: 1822.791+/-0.411  $\chi^2/\text{NDF}$ : 60102.2/12

asym\_atl1r2\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -3500.685+/-1562.234  $\chi^2/\text{NDF}$ :3.4/6

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

Left In: -752.585+/-1567.865  $\chi^2/\text{NDF}$ :2.8/5

Left: -2131.579+/-1106.652  $\chi^2/\text{NDF}$ : 7.7/12

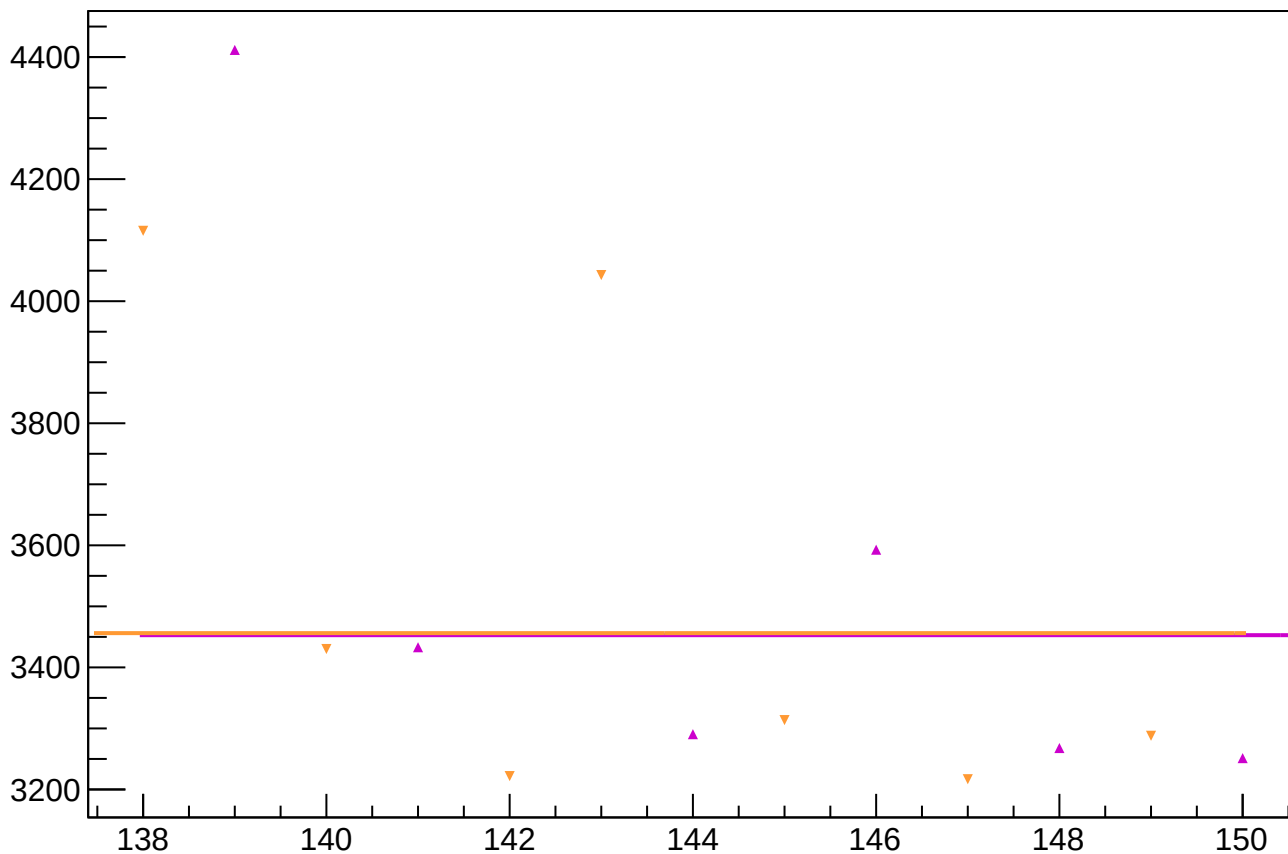
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -752.585+/-1567.865  $\chi^2/\text{NDF}$ :2.8/5

Out: -3500.685+/-1562.234  $\chi^2/\text{NDF}$ :3.4/6

All: -2131.579+/-1106.652  $\chi^2/\text{NDF}$ : 7.7/12

asym\_atl1r2\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 3456.151+/-1.105  $\chi^2$ /NDF:85046.8/6

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

Left In: 3452.791+/-1.109  $\chi^2$ /NDF:86961.0/5

Left: 3454.477+/-0.783  $\chi^2$ /NDF: 172012.4/12

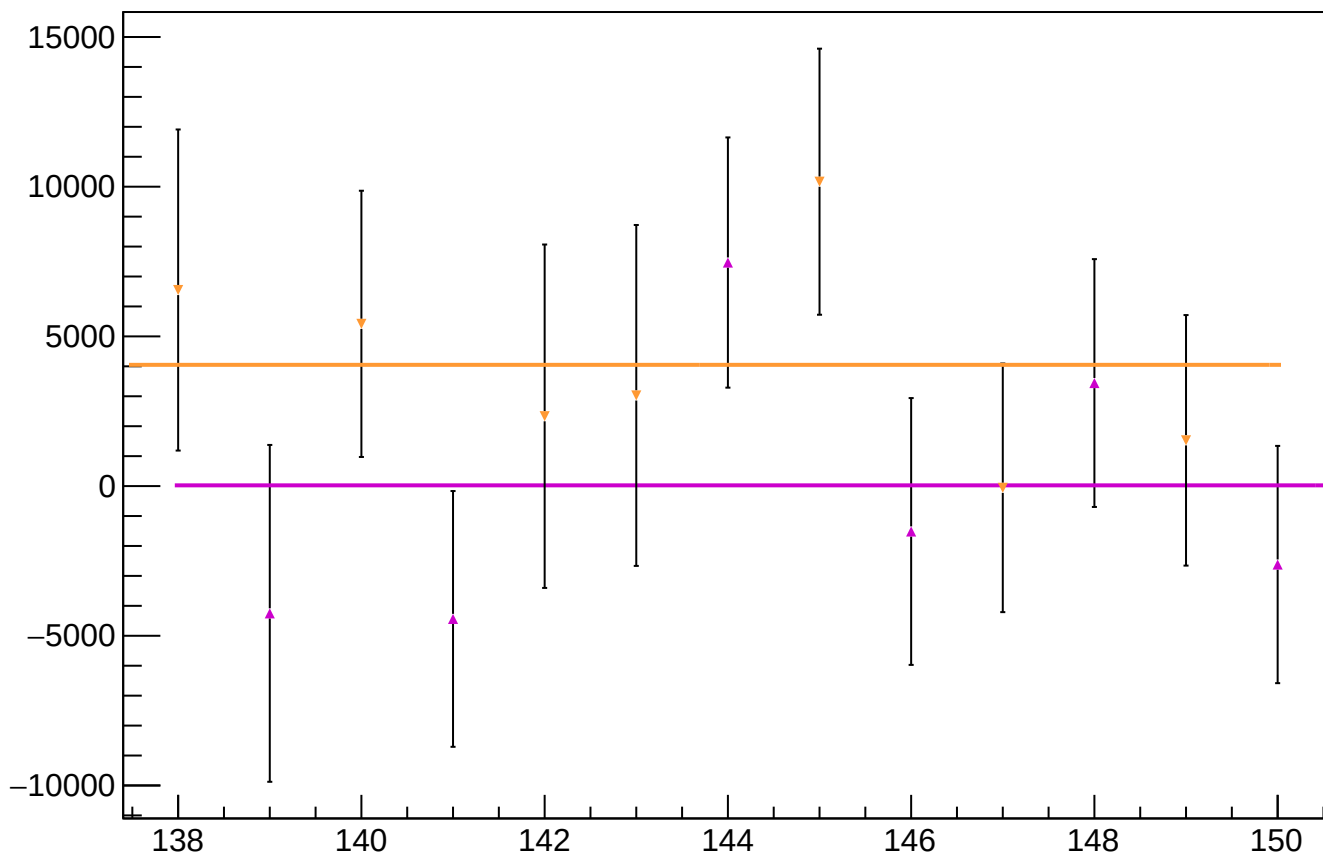
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 3452.791+/-1.109  $\chi^2$ /NDF:86961.0/5

Out: 3456.151+/-1.105  $\chi^2$ /NDF:85046.8/6

All: 3454.477+/-0.783  $\chi^2$ /NDF: 172012.4/12

# asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 4049.695+/-1789.260  $\chi^2/\text{NDF}$ : 3.7/6

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

Left In: 24.536+/-1778.702  $\chi^2/\text{NDF}$ : 6.1/5

Left: 2025.205+/-1261.449  $\chi^2/\text{NDF}$ : 12.3/12

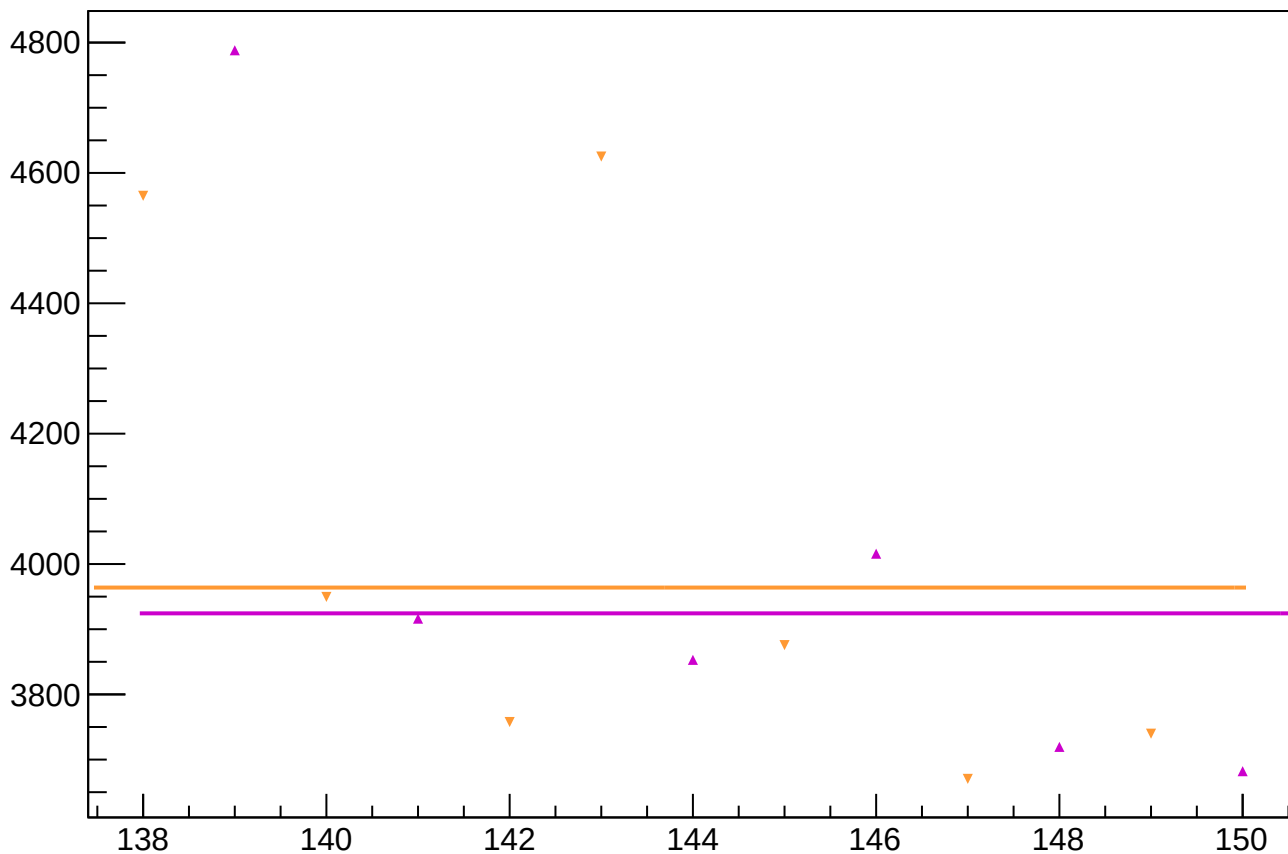
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 24.536+/-1778.702  $\chi^2/\text{NDF}$ : 6.1/5

Out: 4049.695+/-1789.260  $\chi^2/\text{NDF}$ : 3.7/6

All: 2025.205+/-1261.449  $\chi^2/\text{NDF}$ : 12.3/12

# asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 3963.910+/-1.265  $\chi^2/\text{NDF}$ : 71223.3/6

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

Left In: 3924.346+/-1.258  $\chi^2/\text{NDF}$ : 60953.0/5

Left: 3944.011+/-0.892  $\chi^2/\text{NDF}$ : 132668.1/12

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

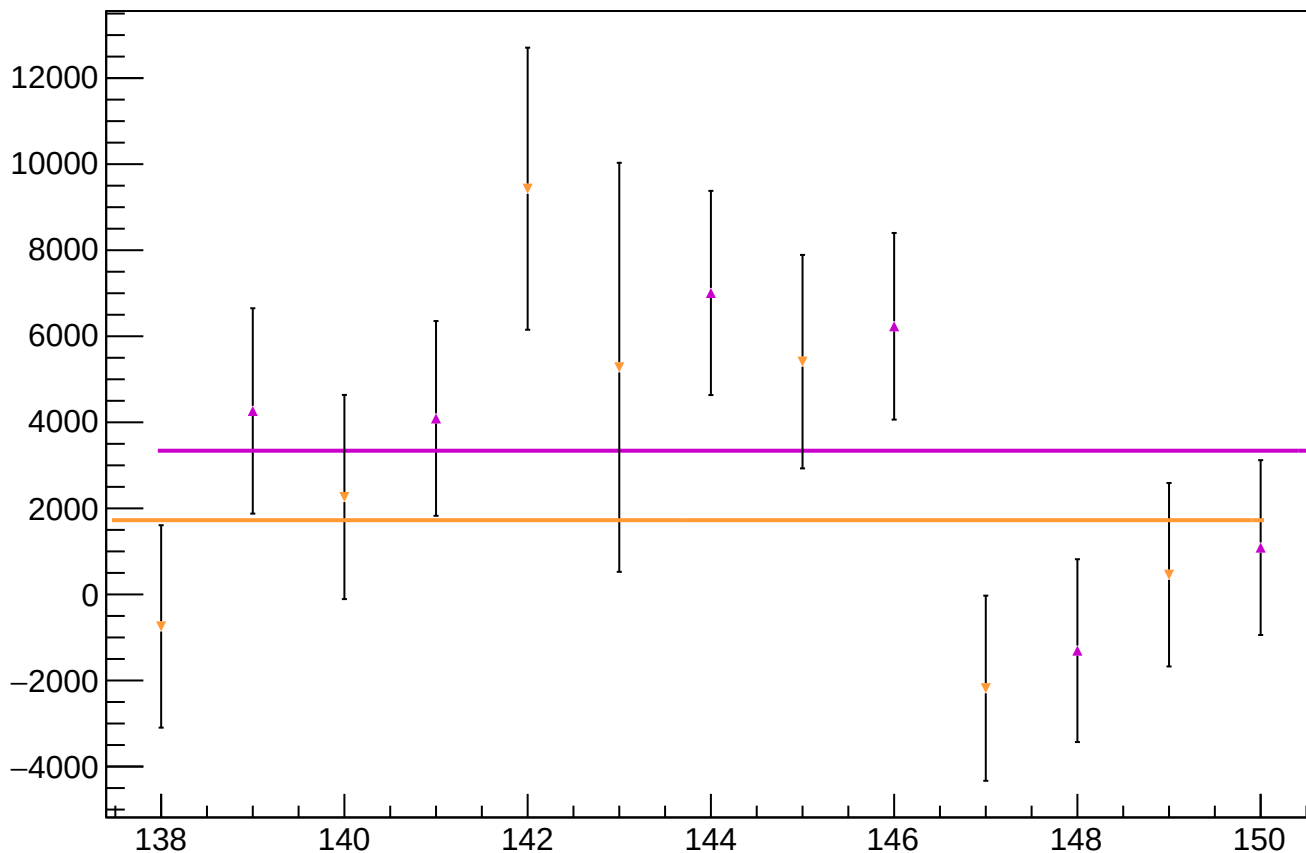
In: 3924.346+/-1.258  $\chi^2/\text{NDF}$ : 60953.0/5

Out: 3963.910+/-1.265  $\chi^2/\text{NDF}$ : 71223.3/6

All: 3944.011+/-0.892  $\chi^2/\text{NDF}$ : 132668.1/12



reg\_asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1725.343+/-955.983  $\chi^2/\text{NDF}$ :13.1/6

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

Left In: 3340.348+/-903.573  $\chi^2/\text{NDF}$ :10.4/5

Left: 2578.327+/-656.669  $\chi^2/\text{NDF}$ : 25.0/12

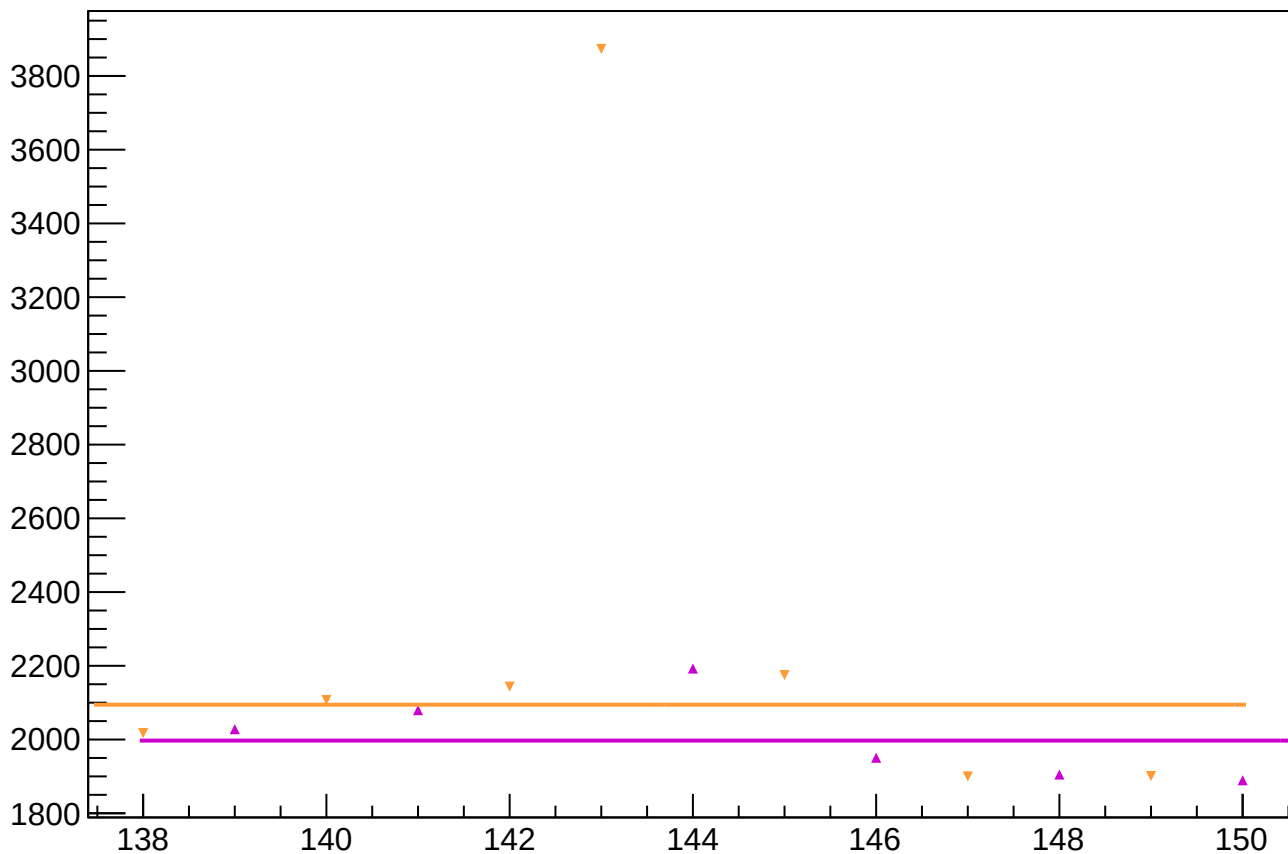
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3340.348+/-903.573  $\chi^2/\text{NDF}$ :10.4/5

Out: 1725.343+/-955.983  $\chi^2/\text{NDF}$ :13.1/6

All: 2578.327+/-656.669  $\chi^2/\text{NDF}$ : 25.0/12

reg\_asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 2094.492+/-0.676  $\chi^2/\text{NDF}$ :317738.9/6

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

Left In: 1997.105+/-0.639  $\chi^2/\text{NDF}$ :26873.9/5

Left: 2043.056+/-0.464  $\chi^2/\text{NDF}$ : 355575.0/12

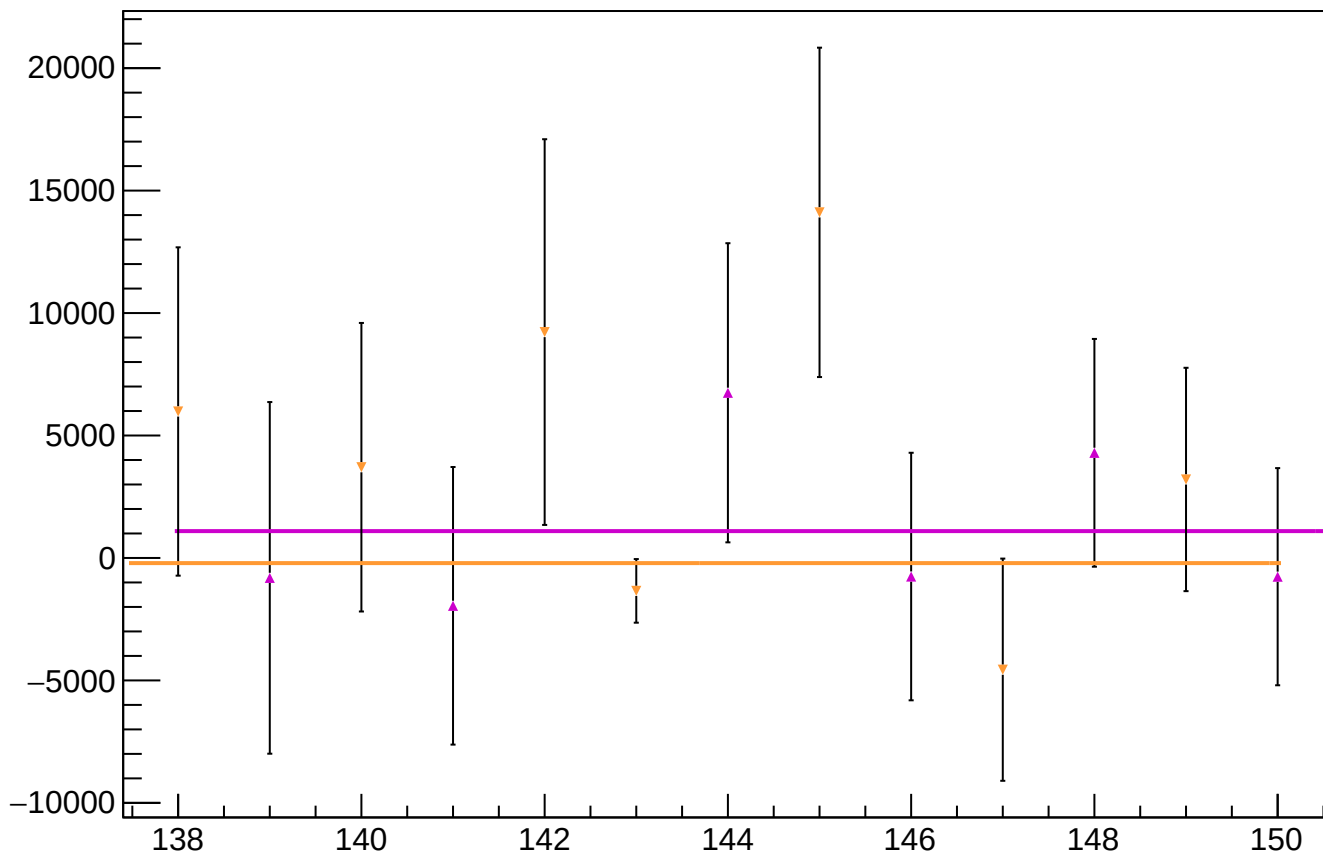
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1997.105+/-0.639  $\chi^2/\text{NDF}$ :26873.9/5

Out: 2094.492+/-0.676  $\chi^2/\text{NDF}$ :317738.9/6

All: 2043.056+/-0.464  $\chi^2/\text{NDF}$ : 355575.0/12

asym\_atr1l2\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -209.849+/-1133.260  $\chi^2/\text{NDF}$ :9.5/6

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

Left In: 1096.339+/-2163.587  $\chi^2/\text{NDF}$ :2.0/5

Left: 71.358+/-1003.887  $\chi^2/\text{NDF}$ : 11.8/12

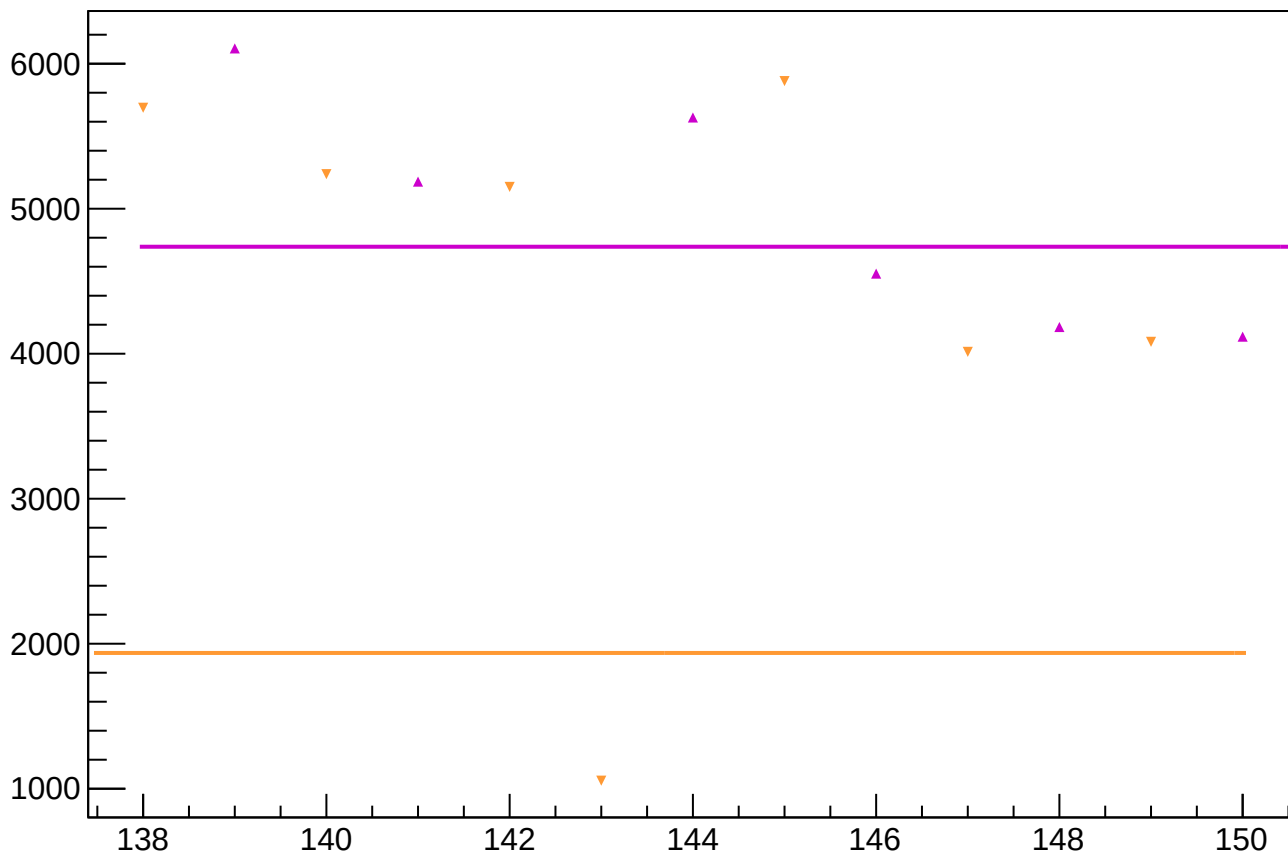
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1096.339+/-2163.587  $\chi^2/\text{NDF}$ :2.0/5

Out: -209.849+/-1133.260  $\chi^2/\text{NDF}$ :9.5/6

All: 71.358+/-1003.887  $\chi^2/\text{NDF}$ : 11.8/12

asym\_atr1l2\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 1936.298+/-0.801  $\chi^2/\text{NDF}$ :4060178.5/6

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

Left In: 4737.842+/-1.530  $\chi^2/\text{NDF}$ :197930.8/5

Left: 2539.438+/-0.710  $\chi^2/\text{NDF}$ : 6889504.9/12

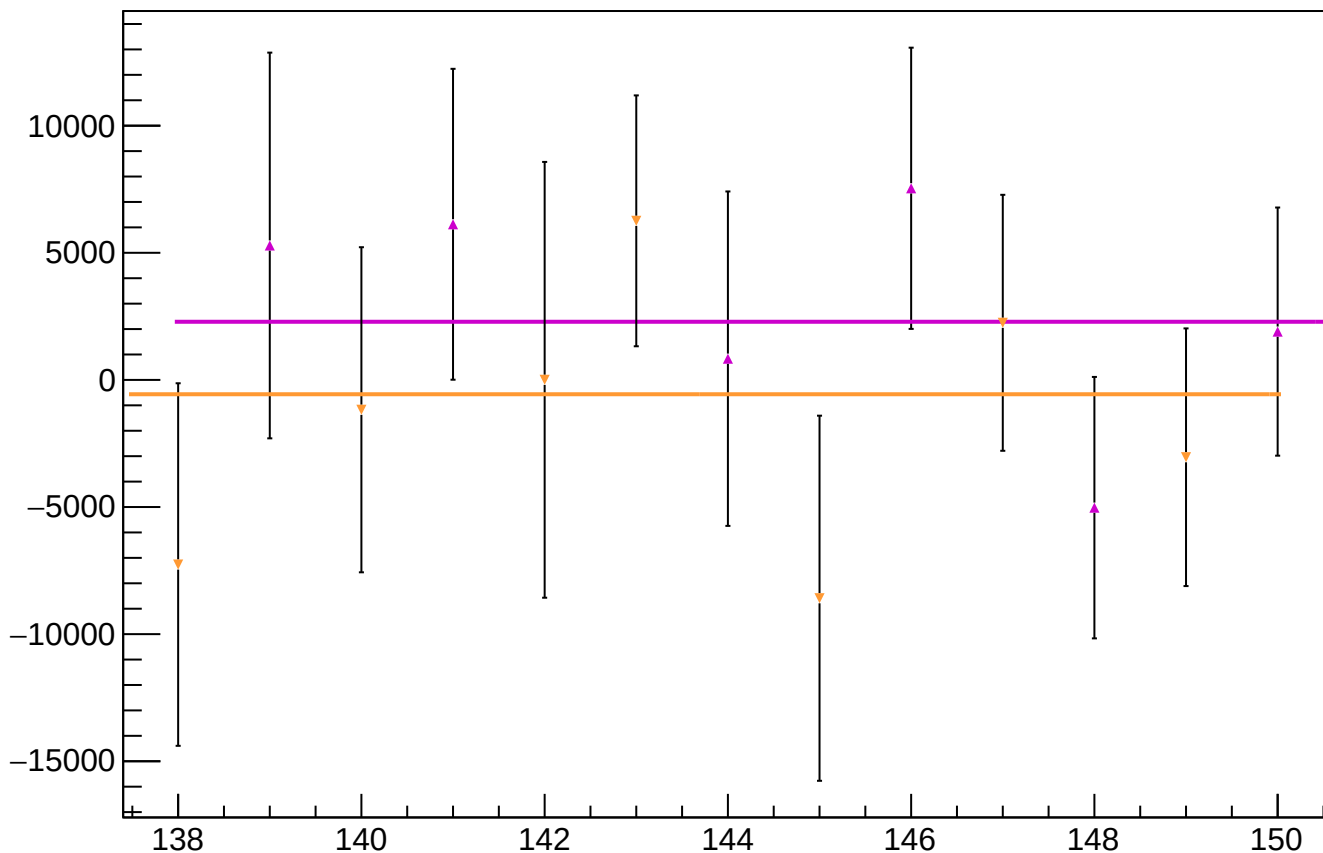
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4737.842+/-1.530  $\chi^2/\text{NDF}$ :197930.8/5

Out: 1936.298+/-0.801  $\chi^2/\text{NDF}$ :4060178.5/6

All: 2539.438+/-0.710  $\chi^2/\text{NDF}$ : 6889504.9/12

# asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



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

Left Out: -563.640+/-2255.315  $\chi^2/\text{NDF}$ :4.6/6

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

Left In: 2287.332+/-2358.819  $\chi^2/\text{NDF}$ :3.5/5

Left: 797.925+/-1630.112  $\chi^2/\text{NDF}$ : 8.9/12

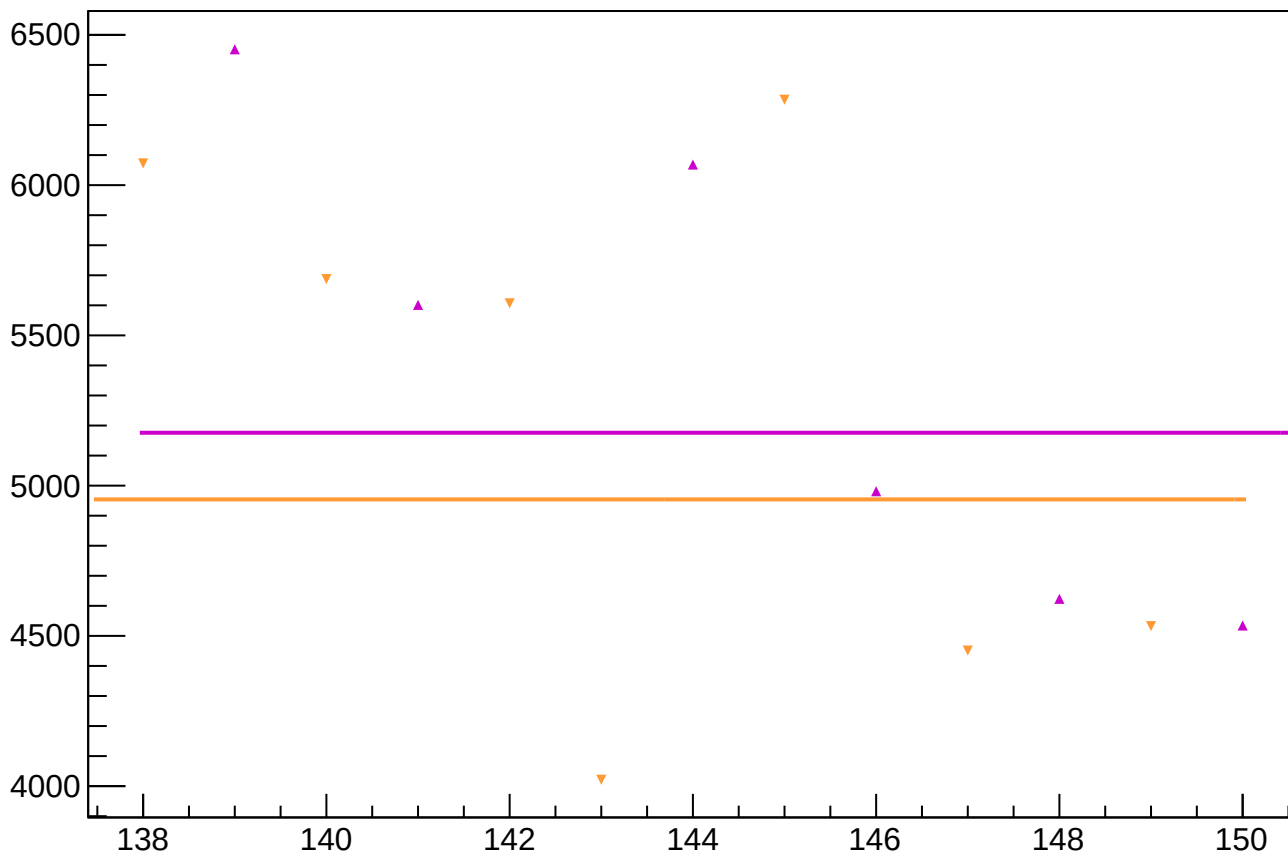
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2287.332+/-2358.819  $\chi^2/\text{NDF}$ :3.5/5

Out: -563.640+/-2255.315  $\chi^2/\text{NDF}$ :4.6/6

All: 797.925+/-1630.112  $\chi^2/\text{NDF}$ : 8.9/12

# asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 4954.247+/-1.595  $\chi^2/\text{NDF}$ :261000.4/6

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

Left In: 5175.978+/-1.668  $\chi^2/\text{NDF}$ :163229.4/5

Left: 5060.141+/-1.153  $\chi^2/\text{NDF}$ : 433462.2/12

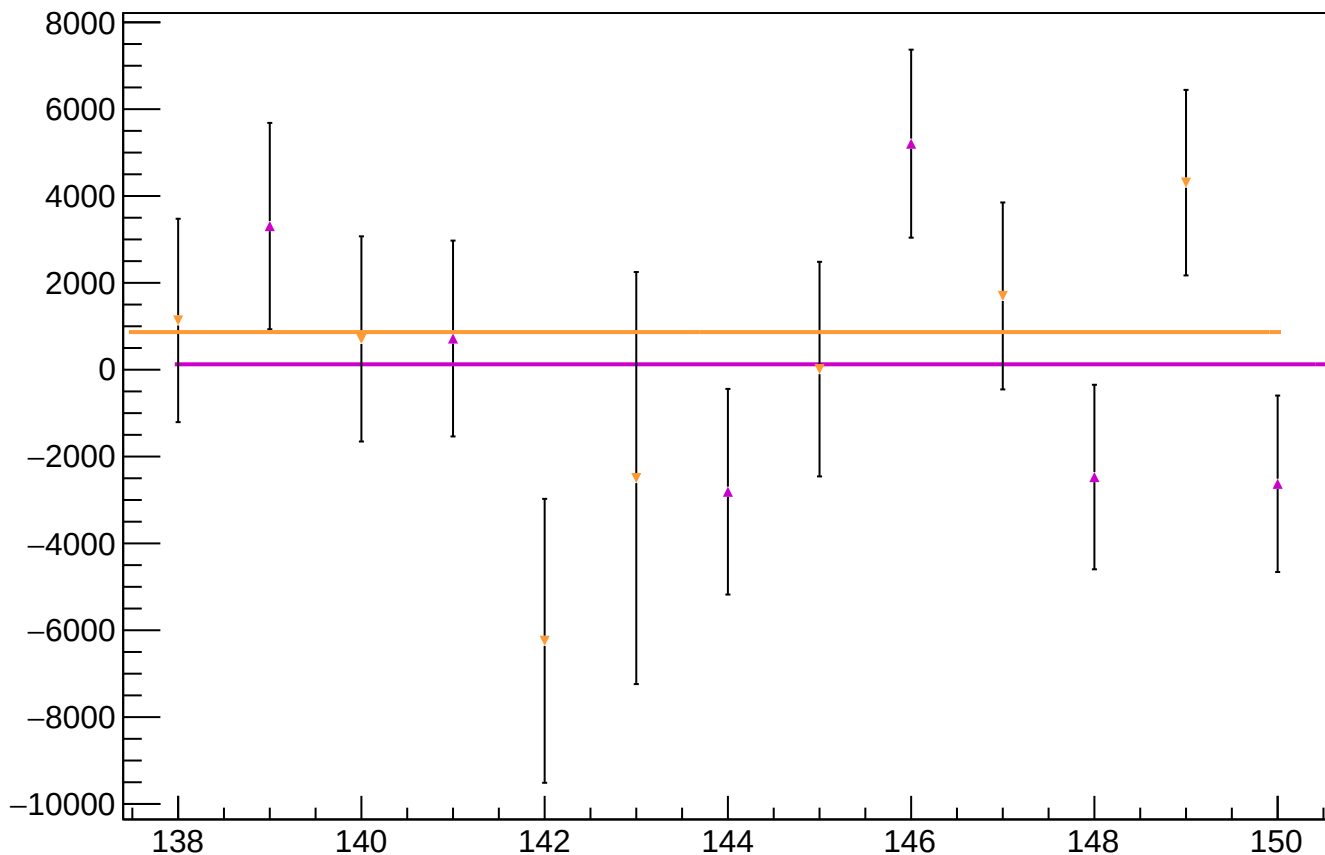
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5175.978+/-1.668  $\chi^2/\text{NDF}$ :163229.4/5

Out: 4954.247+/-1.595  $\chi^2/\text{NDF}$ :261000.4/6

All: 5060.141+/-1.153  $\chi^2/\text{NDF}$ : 433462.2/12

reg\_asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 866.701+/-954.222  $\chi^2/\text{NDF}$ :8.1/6

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

Left In: 124.535+/-901.961  $\chi^2/\text{NDF}$ :12.2/5

Left: 474.739+/-655.480  $\chi^2/\text{NDF}$ : 20.7/12

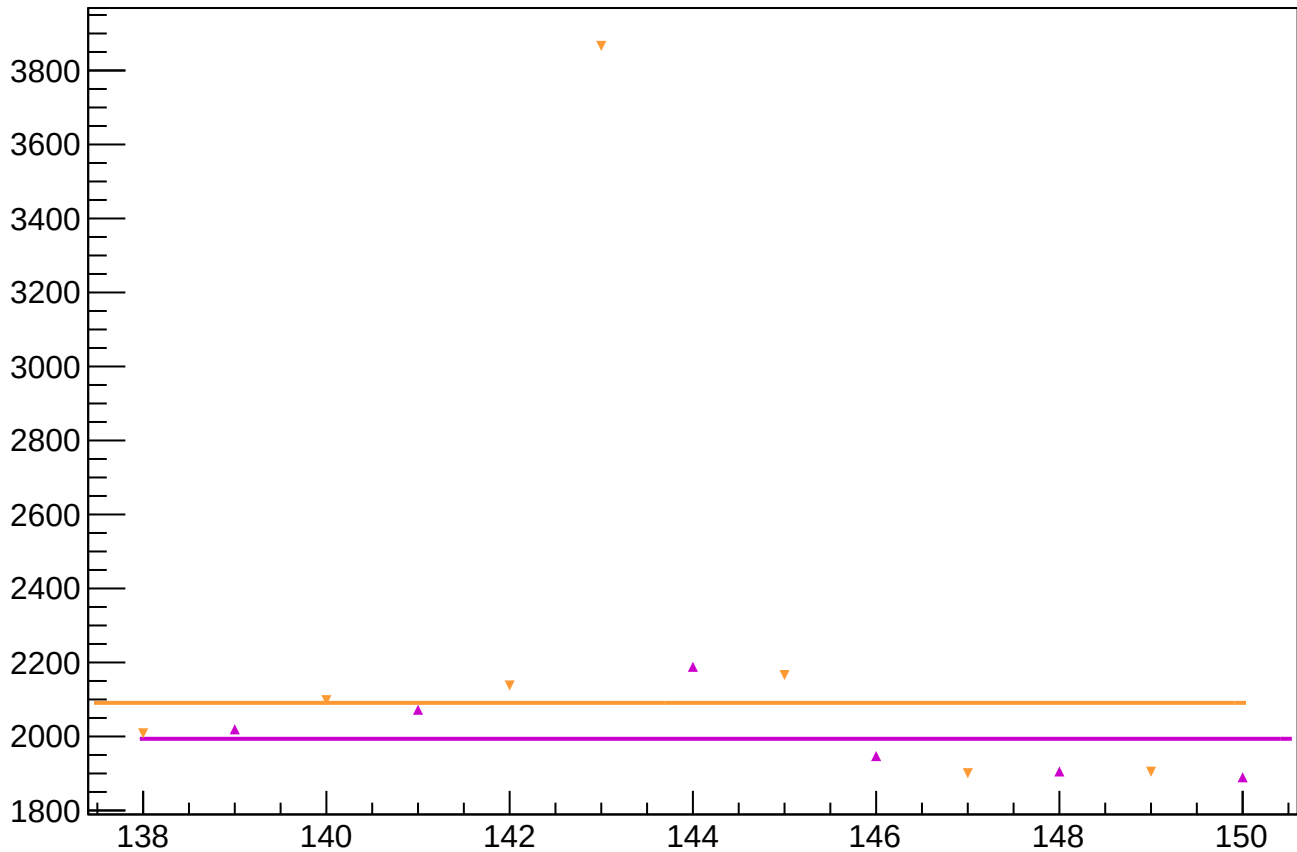
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 124.535+/-901.961  $\chi^2/\text{NDF}$ :12.2/5

Out: 866.701+/-954.222  $\chi^2/\text{NDF}$ :8.1/6

All: 474.739+/-655.480  $\chi^2/\text{NDF}$ : 20.7/12

# reg\_asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 2090.865+/-0.675  $\chi^2/\text{NDF}$ :315620.7/6

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

Left In: 1993.719+/-0.638  $\chi^2/\text{NDF}$ :25785.4/5

Left: 2039.559+/-0.463  $\chi^2/\text{NDF}$ : 352353.7/12

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

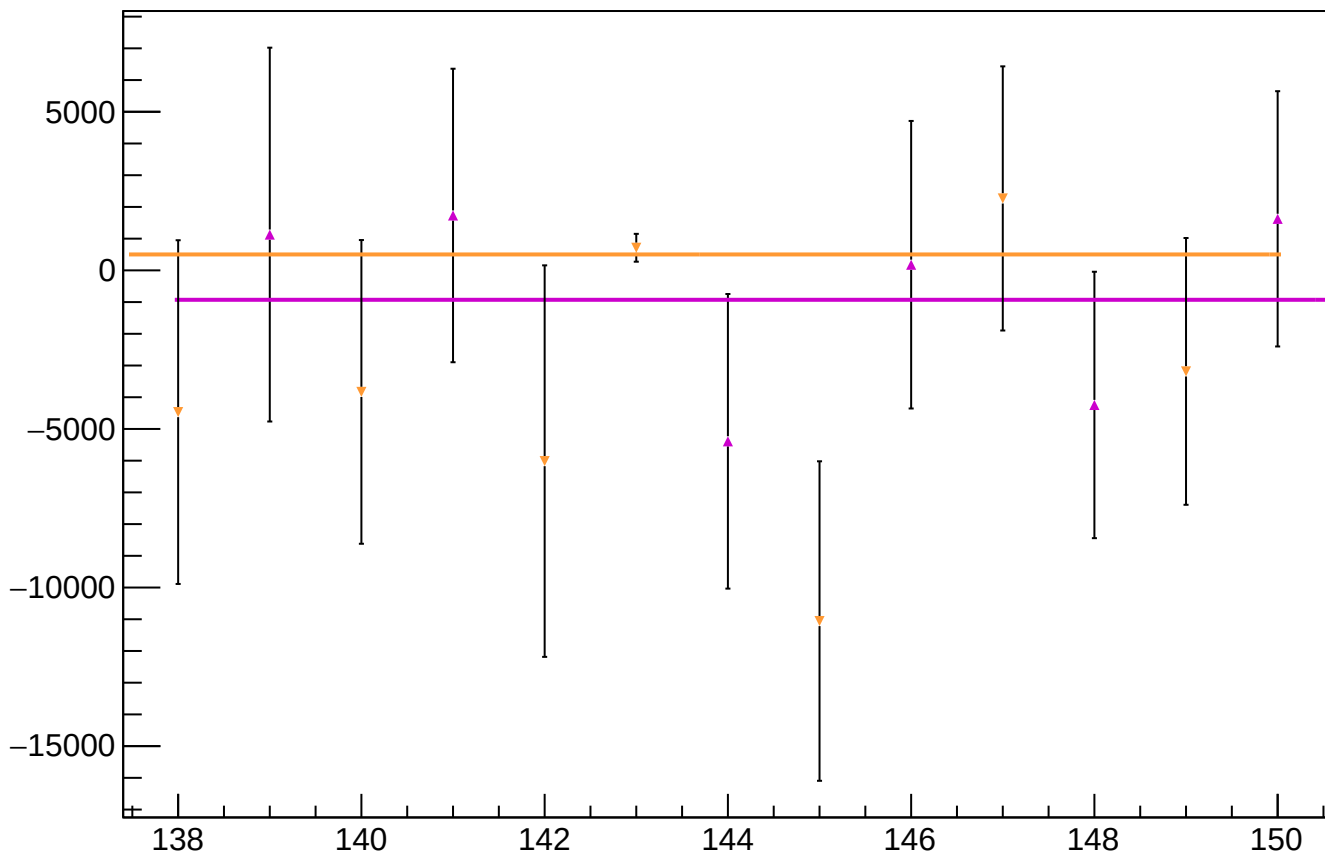
In: 1993.719+/-0.638  $\chi^2/\text{NDF}$ :25785.4/5

Out: 2090.865+/-0.675  $\chi^2/\text{NDF}$ :315620.7/6

All: 2039.559+/-0.463  $\chi^2/\text{NDF}$ : 352353.7/12



asym\_atr1l2\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 501.840+/-428.406  $\chi^2/NDF$ :9.2/6

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

Left In: -927.939+/-1860.235  $\chi^2/NDF$ :2.5/5

Left: 429.828+/-417.478  $\chi^2/NDF$ : 12.2/12

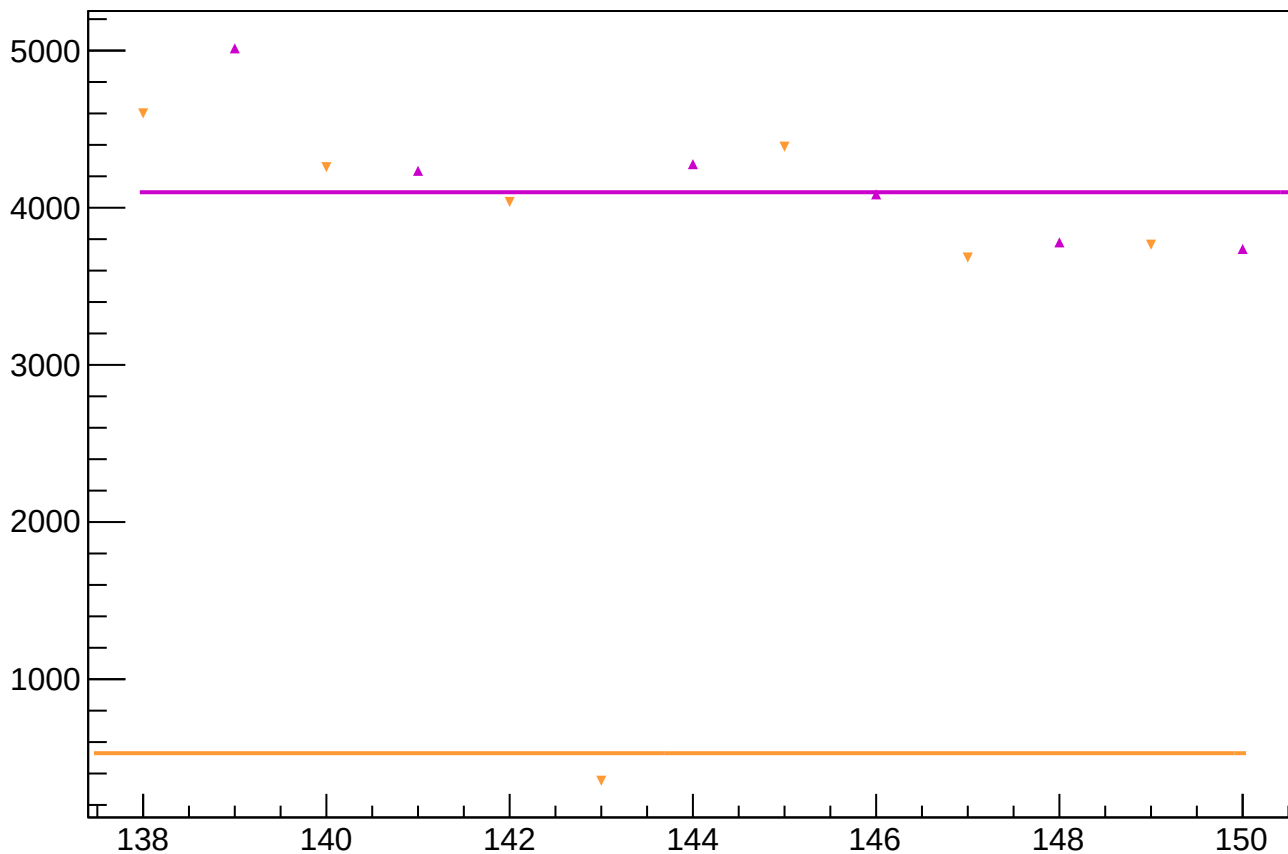
Right: 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

In: -927.939+/-1860.235  $\chi^2/NDF$ :2.5/5

Out: 501.840+/-428.406  $\chi^2/NDF$ :9.2/6

All: 429.828+/-417.478  $\chi^2/NDF$ : 12.2/12

asym\_atr1l2\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 529.297+/-0.303  $\chi^2/\text{NDF}$ : 6812226.6/6

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

Left In: 4098.651+/-1.315  $\chi^2/\text{NDF}$ : 80621.3/5

Left: 709.069+/-0.295  $\chi^2/\text{NDF}$ : 13885306.9/12

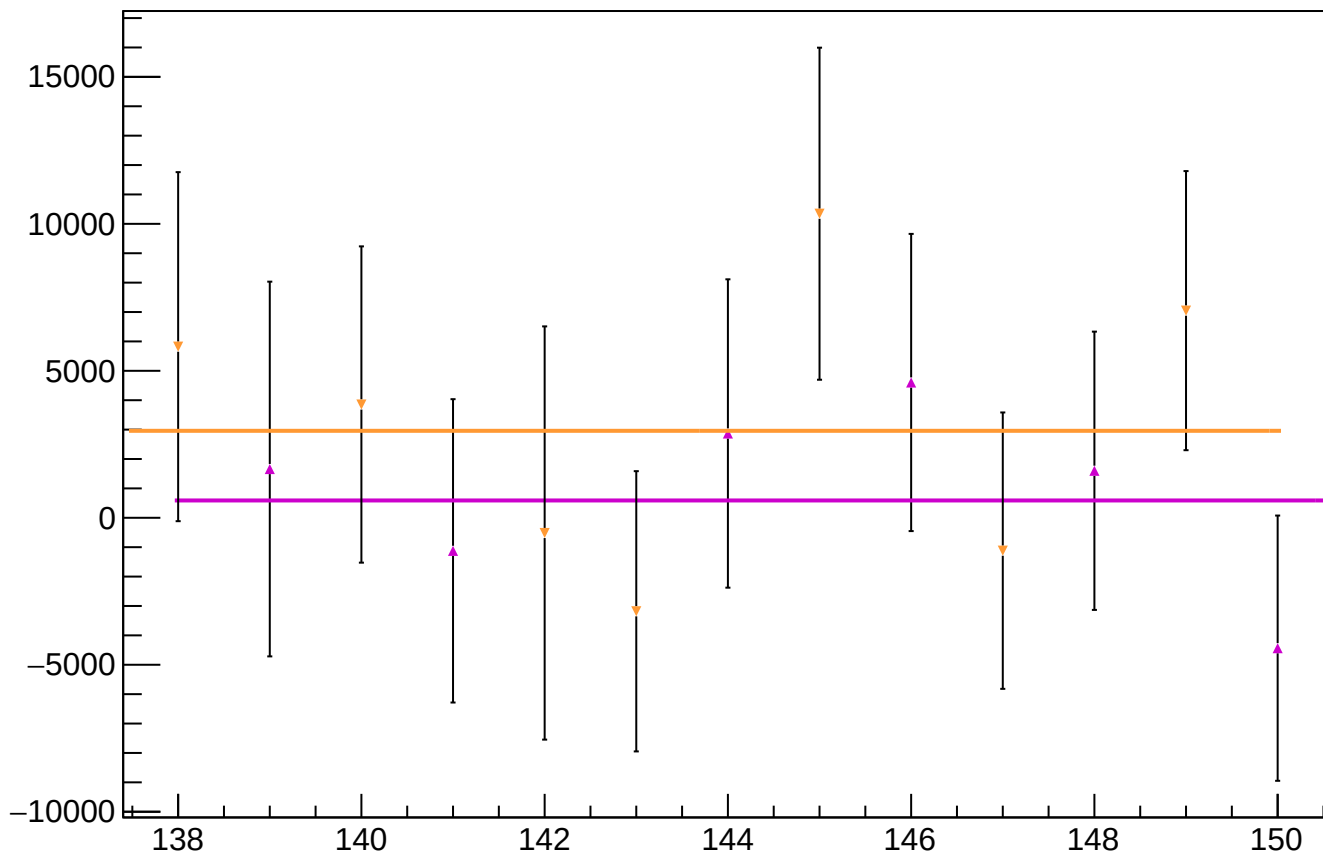
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4098.651+/-1.315  $\chi^2/\text{NDF}$ : 80621.3/5

Out: 529.297+/-0.303  $\chi^2/\text{NDF}$ : 6812226.6/6

All: 709.069+/-0.295  $\chi^2/\text{NDF}$ : 13885306.9/12

# asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 2958.980+/-2007.604  $\chi^2/\text{NDF}$ :5.4/6

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

Left In: 589.553+/-2078.799  $\chi^2/\text{NDF}$ :2.2/5

Left: 1815.535+/-1444.104  $\chi^2/\text{NDF}$ : 8.3/12

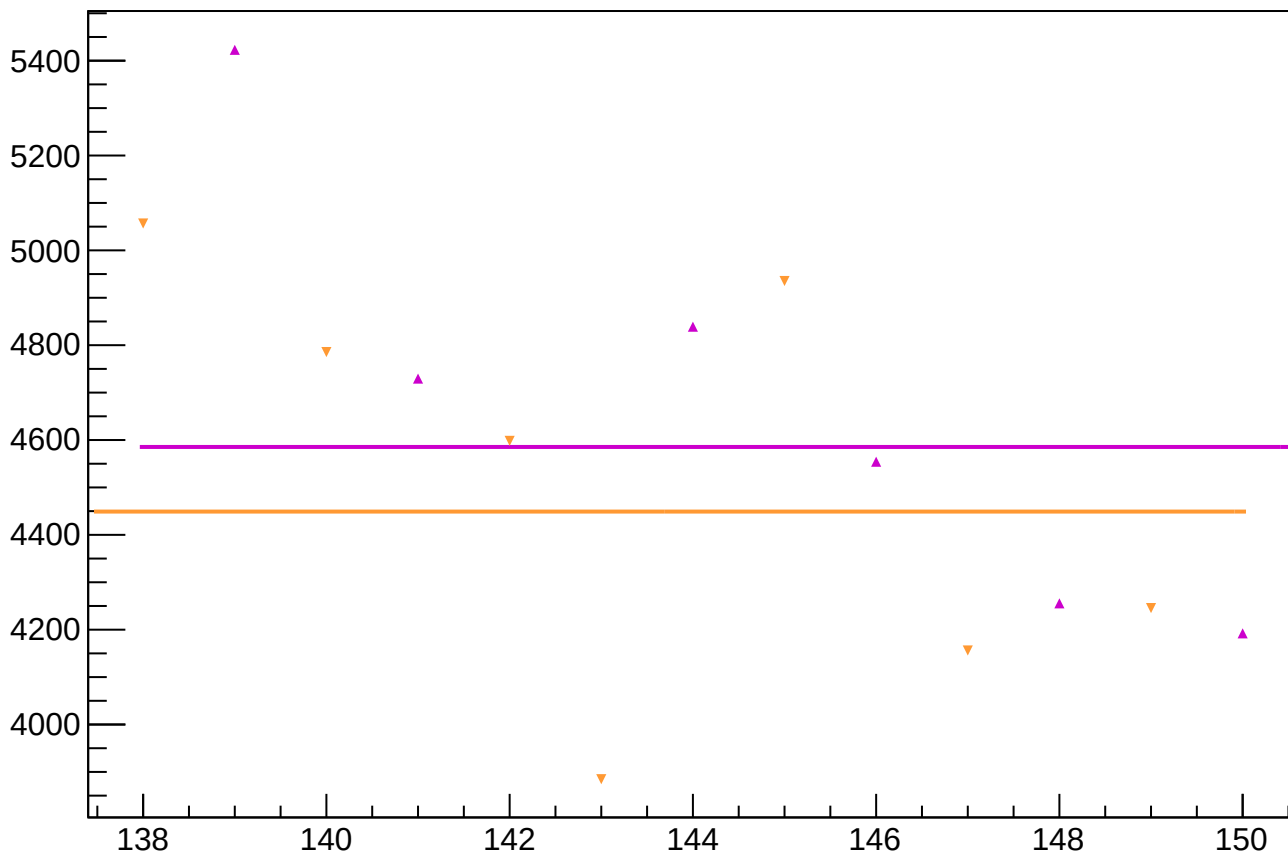
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 589.553+/-2078.799  $\chi^2/\text{NDF}$ :2.2/5

Out: 2958.980+/-2007.604  $\chi^2/\text{NDF}$ :5.4/6

All: 1815.535+/-1444.104  $\chi^2/\text{NDF}$ : 8.3/12

# asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 4449.091+/-1.420  $\chi^2/\text{NDF}$ : 83964.3/6

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

Left In: 4585.375+/-1.470  $\chi^2/\text{NDF}$ : 65741.7/5

Left: 4514.859+/-1.021  $\chi^2/\text{NDF}$ : 154153.7/12

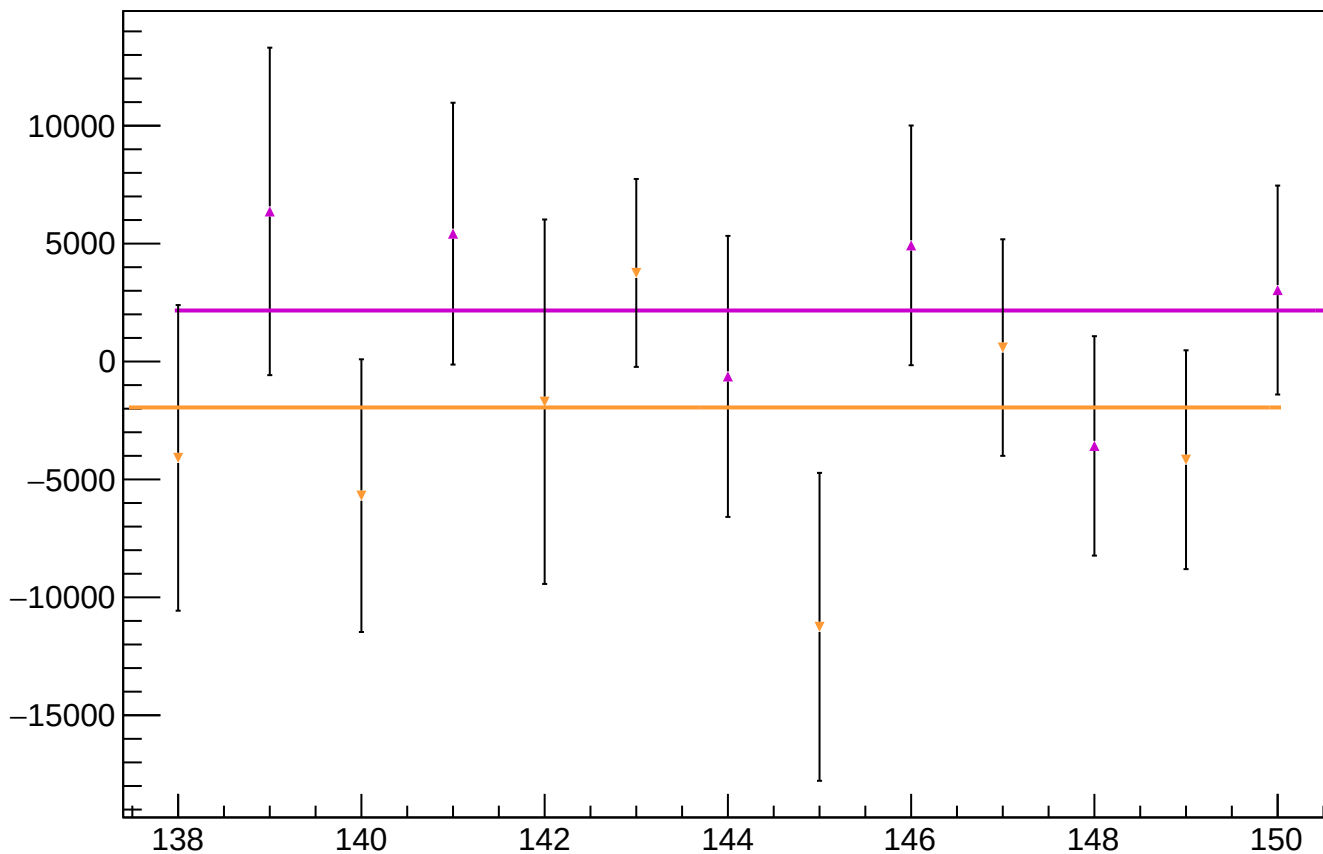
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4585.375+/-1.470  $\chi^2/\text{NDF}$ : 65741.7/5

Out: 4449.091+/-1.420  $\chi^2/\text{NDF}$ : 83964.3/6

All: 4514.859+/-1.021  $\chi^2/\text{NDF}$ : 154153.7/12

reg\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: -1948.189+/-1996.780  $\chi^2/\text{NDF}$ :5.1/6

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

Left In: 2163.812+/-2145.663  $\chi^2/\text{NDF}$ :2.8/5

Left: -39.787+/-1461.739  $\chi^2/\text{NDF}$ : 9.9/12

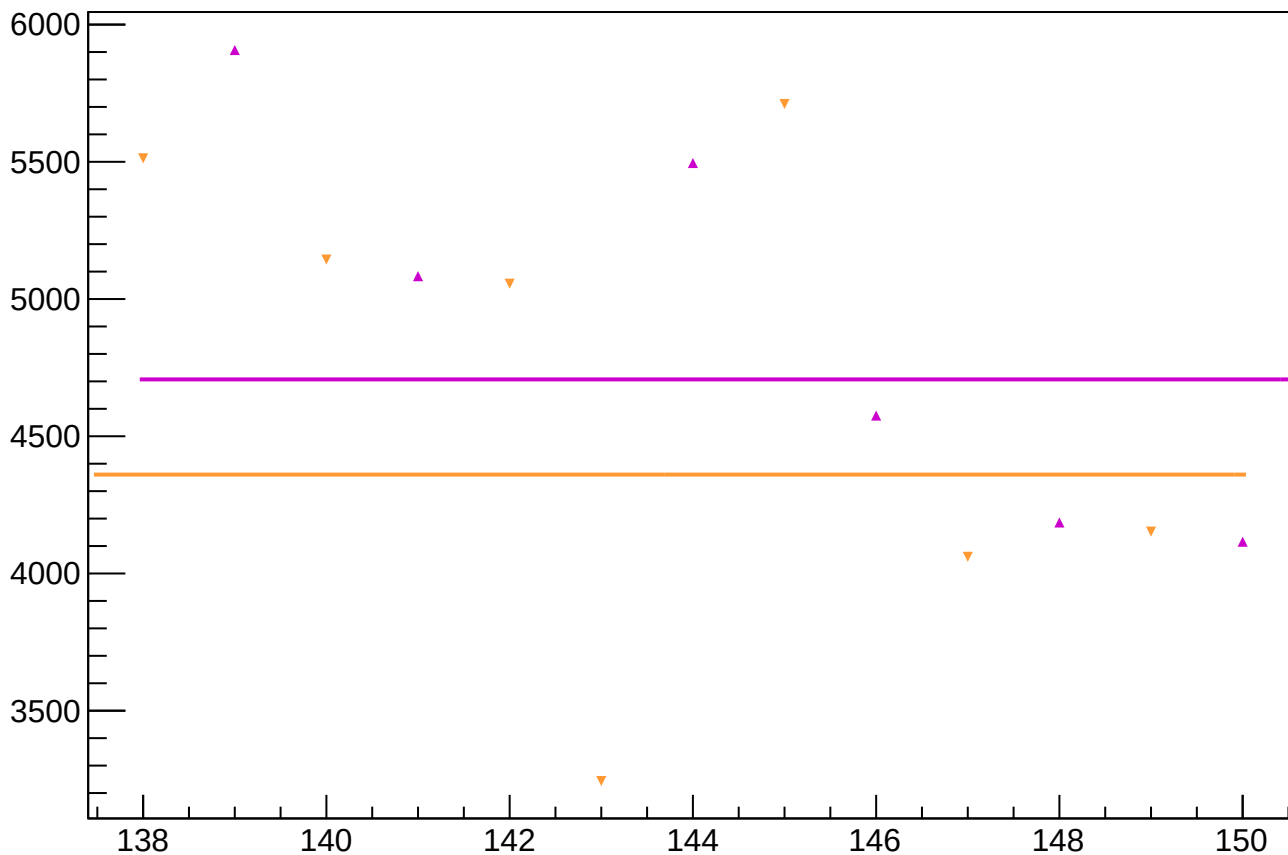
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2163.812+/-2145.663  $\chi^2/\text{NDF}$ :2.8/5

Out: -1948.189+/-1996.780  $\chi^2/\text{NDF}$ :5.1/6

All: -39.787+/-1461.739  $\chi^2/\text{NDF}$ : 9.9/12

reg\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 4360.320+/-1.412  $\chi^2/\text{NDF}$ :371279.5/6

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

Left In: 4707.130+/-1.517  $\chi^2/\text{NDF}$ :166033.8/5

Left: 4521.276+/-1.034  $\chi^2/\text{NDF}$ : 565313.9/12

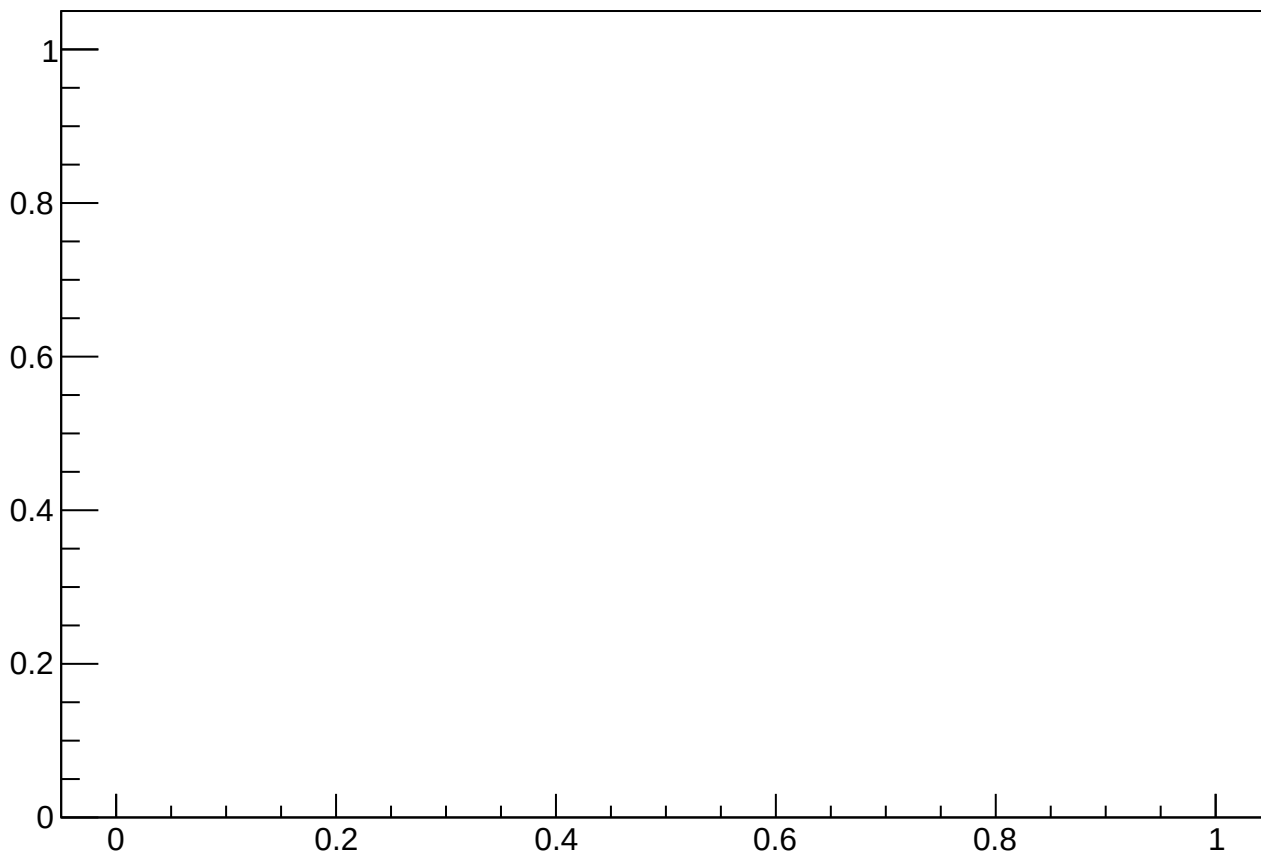
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4707.130+/-1.517  $\chi^2/\text{NDF}$ :166033.8/5

Out: 4360.320+/-1.412  $\chi^2/\text{NDF}$ :371279.5/6

All: 4521.276+/-1.034  $\chi^2/\text{NDF}$ : 565313.9/12

asym\_atl\_avg\_atr\_avg\_avg\_correction\_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

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

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

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

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

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

asym\_atl\_avg\_atr\_avg\_avg\_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

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

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

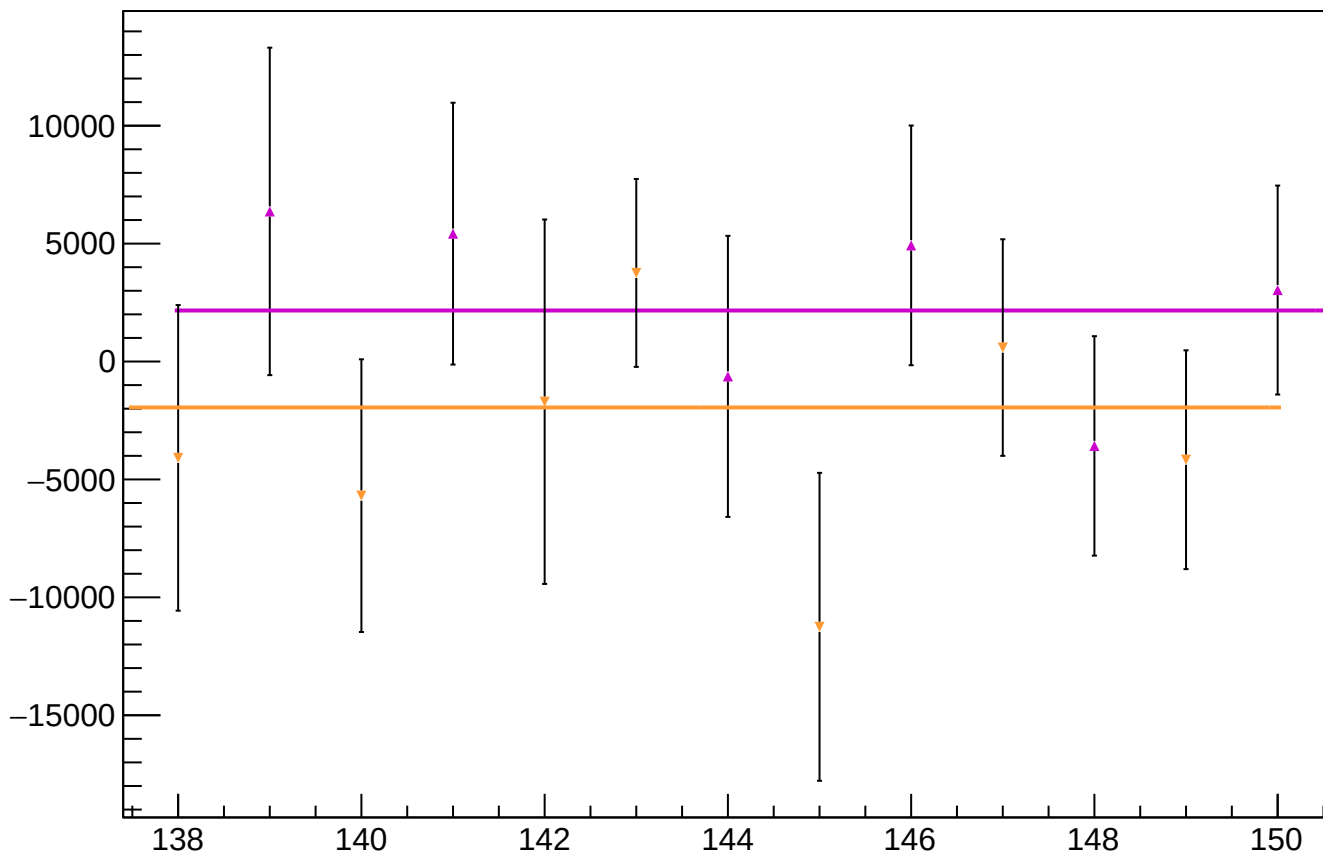
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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



asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: -1948.189+/-1996.780  $\chi^2/\text{NDF}$ :5.1/6

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

Left In: 2163.812+/-2145.663  $\chi^2/\text{NDF}$ :2.8/5

Left: -39.787+/-1461.739  $\chi^2/\text{NDF}$ : 9.9/12

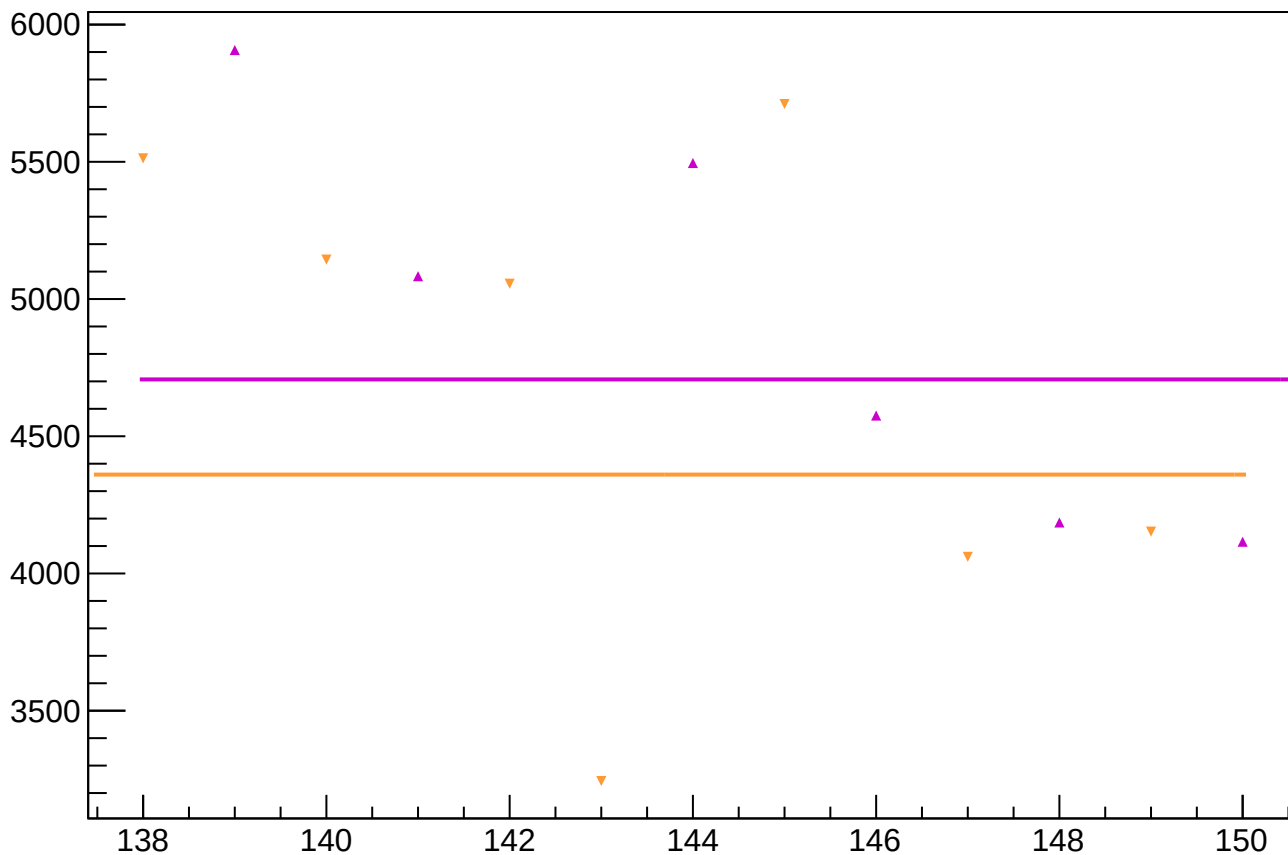
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2163.812+/-2145.663  $\chi^2/\text{NDF}$ :2.8/5

Out: -1948.189+/-1996.780  $\chi^2/\text{NDF}$ :5.1/6

All: -39.787+/-1461.739  $\chi^2/\text{NDF}$ : 9.9/12

asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 4360.320+/-1.412  $\chi^2/\text{NDF}$ :371279.5/6

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

Left In: 4707.130+/-1.517  $\chi^2/\text{NDF}$ :166033.8/5

Left: 4521.276+/-1.034  $\chi^2/\text{NDF}$ : 565313.9/12

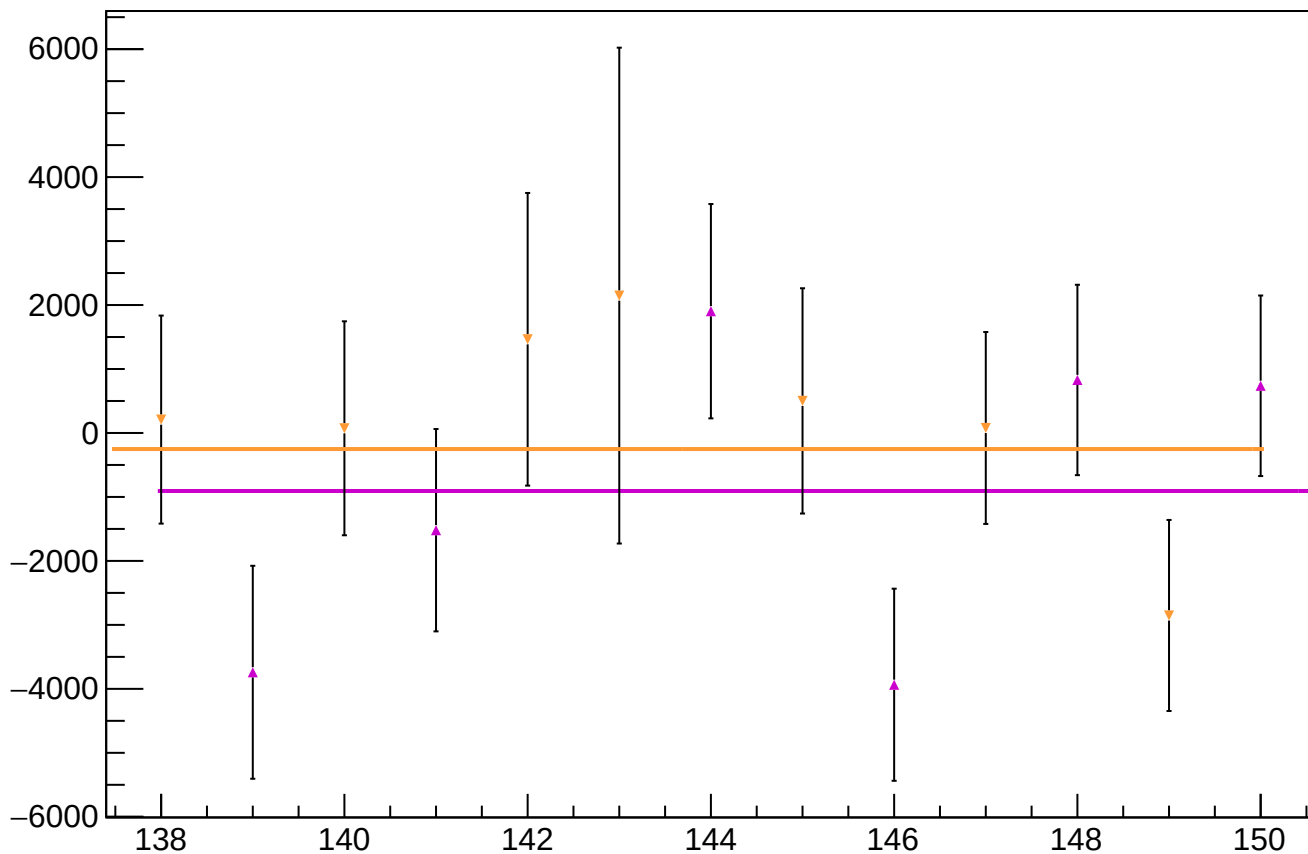
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4707.130+/-1.517  $\chi^2/\text{NDF}$ :166033.8/5

Out: 4360.320+/-1.412  $\chi^2/\text{NDF}$ :371279.5/6

All: 4521.276+/-1.034  $\chi^2/\text{NDF}$ : 565313.9/12

reg\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -251.213+/-672.837  $\chi^2/\text{NDF}$ :4.3/6

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

Left In: -907.041+/-630.651  $\chi^2/\text{NDF}$ :12.7/5

Left: -600.330+/-460.129  $\chi^2/\text{NDF}$ : 17.5/12

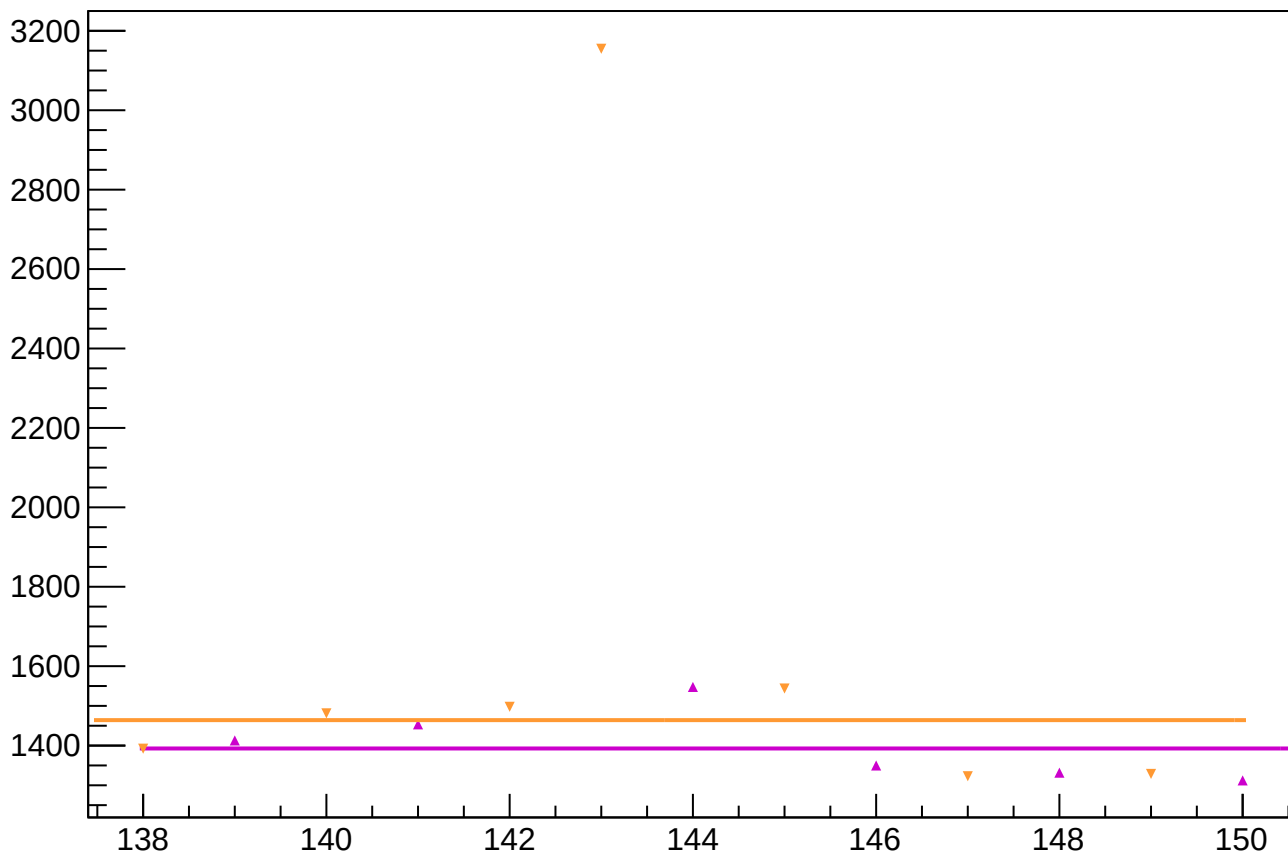
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -907.041+/-630.651  $\chi^2/\text{NDF}$ :12.7/5

Out: -251.213+/-672.837  $\chi^2/\text{NDF}$ :4.3/6

All: -600.330+/-460.129  $\chi^2/\text{NDF}$ : 17.5/12

reg\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1464.114+/-0.476  $\chi^2/\text{NDF}$ : 423476.5/6

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

Left In: 1392.717+/-0.446  $\chi^2/\text{NDF}$ : 31842.9/5

Left: 1426.107+/-0.325  $\chi^2/\text{NDF}$ : 467307.8/12

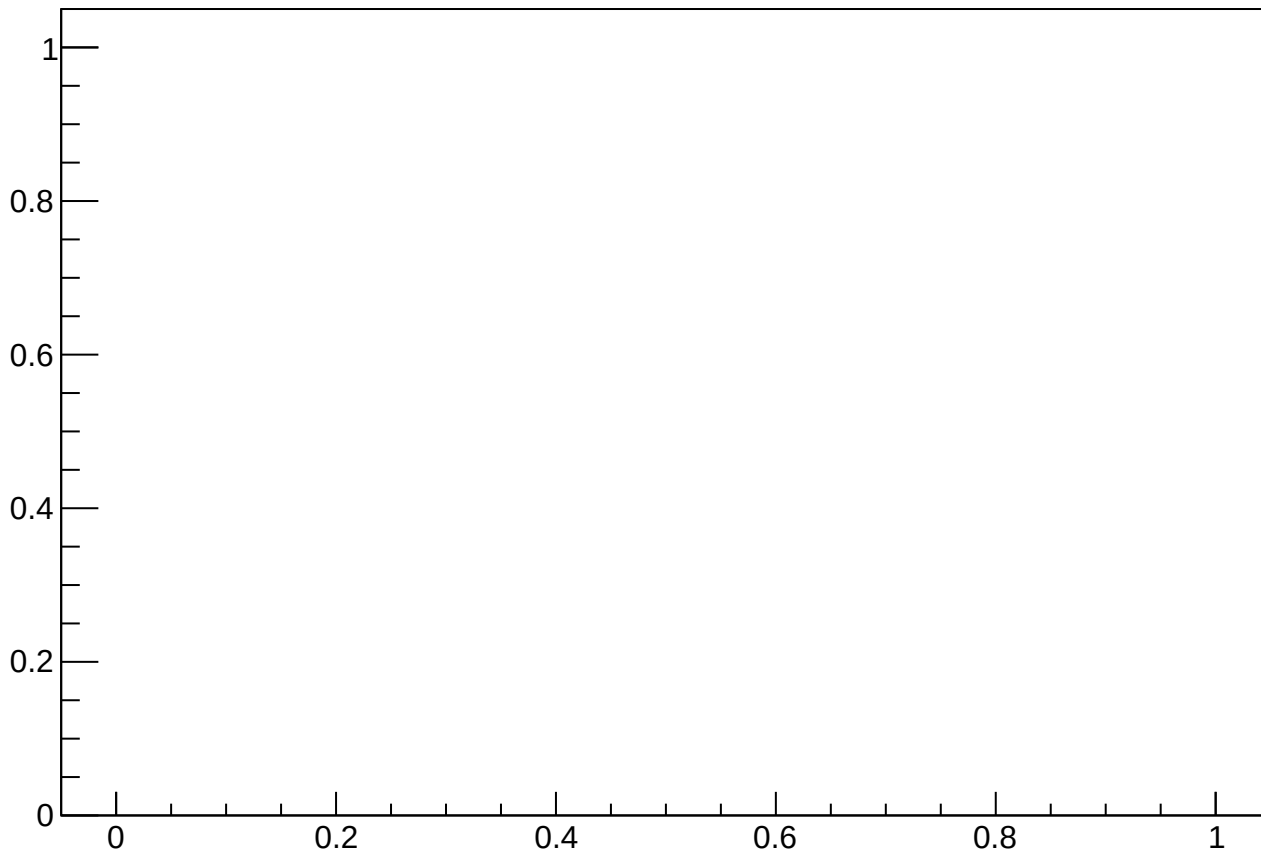
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1392.717+/-0.446  $\chi^2/\text{NDF}$ : 31842.9/5

Out: 1464.114+/-0.476  $\chi^2/\text{NDF}$ : 423476.5/6

All: 1426.107+/-0.325  $\chi^2/\text{NDF}$ : 467307.8/12

asym\_atl\_avg\_atr\_avg\_dd\_correction\_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

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

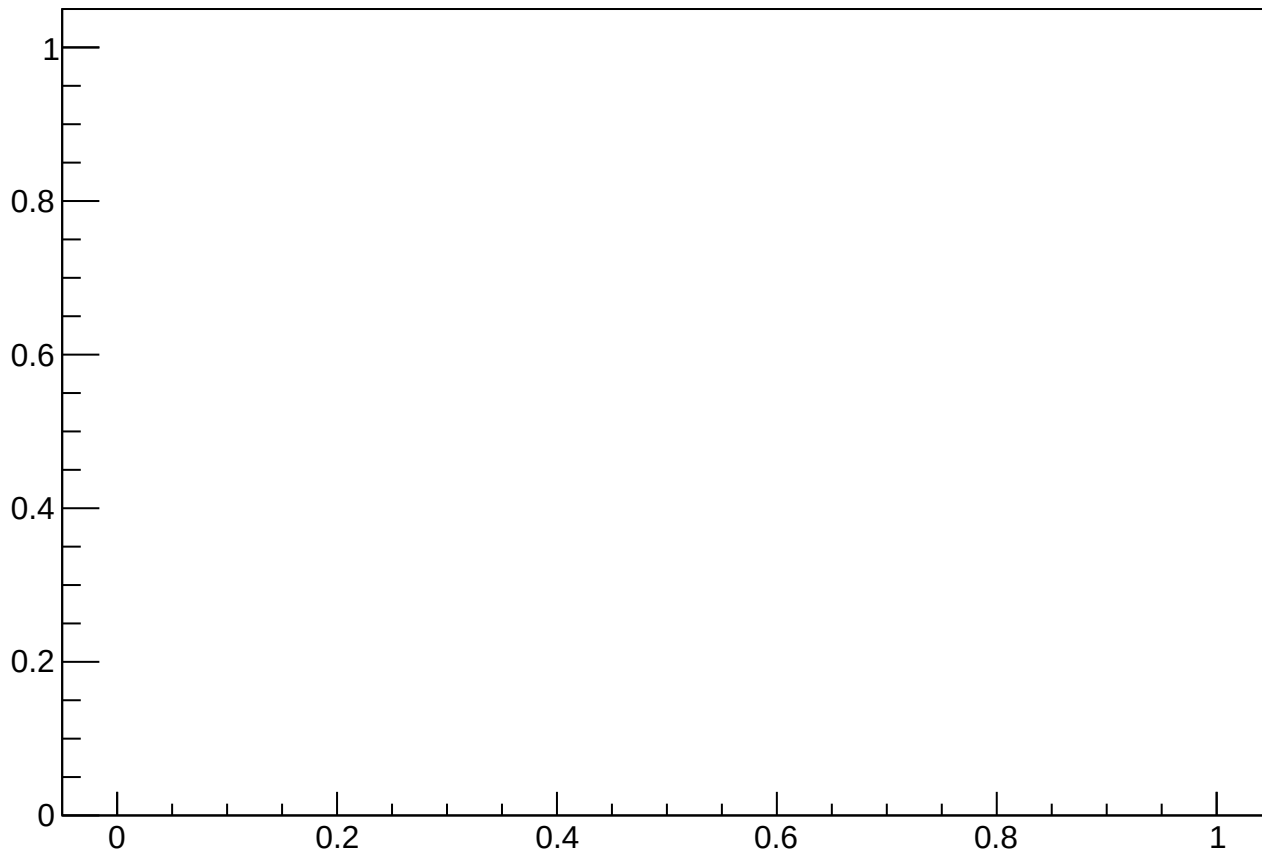
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

asym\_atl\_avg\_atr\_avg\_dd\_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

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

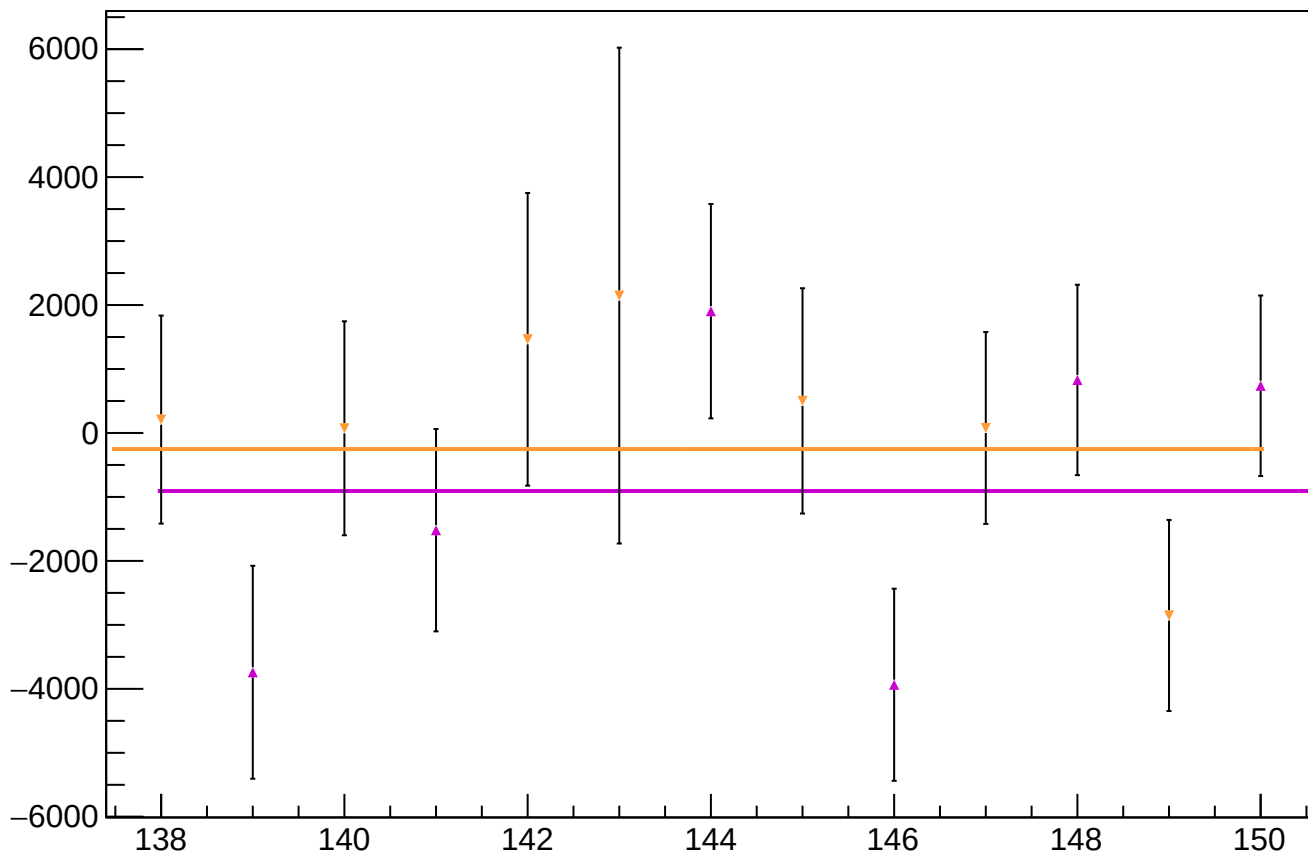
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -251.213+/-672.837  $\chi^2/\text{NDF}$ :4.3/6

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

Left In: -907.041+/-630.651  $\chi^2/\text{NDF}$ :12.7/5

Left: -600.330+/-460.129  $\chi^2/\text{NDF}$ : 17.5/12

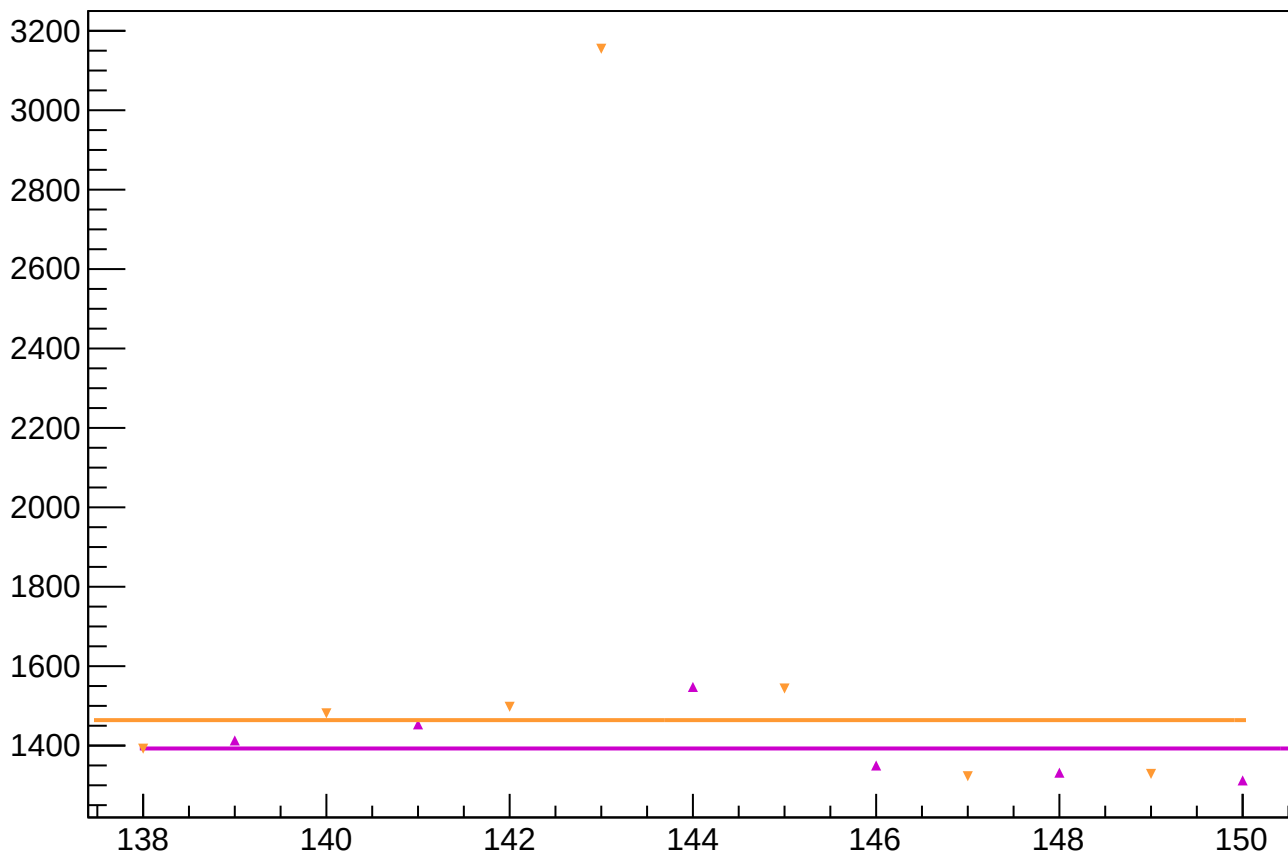
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -907.041+/-630.651  $\chi^2/\text{NDF}$ :12.7/5

Out: -251.213+/-672.837  $\chi^2/\text{NDF}$ :4.3/6

All: -600.330+/-460.129  $\chi^2/\text{NDF}$ : 17.5/12

asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1464.114+/-0.476  $\chi^2/\text{NDF}$ : 423476.5/6

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

Left In: 1392.717+/-0.446  $\chi^2/\text{NDF}$ : 31842.9/5

Left: 1426.107+/-0.325  $\chi^2/\text{NDF}$ : 467307.8/12

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

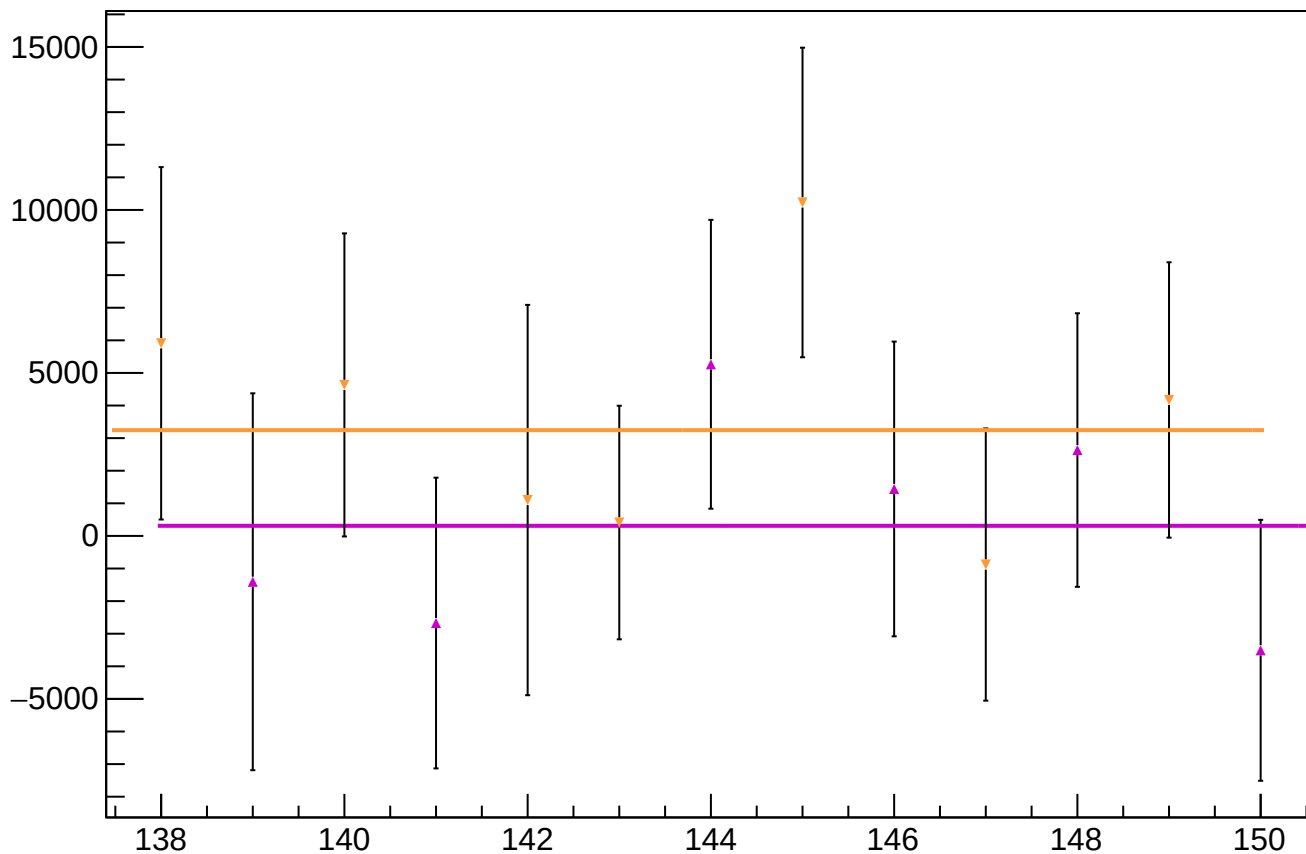
In: 1392.717+/-0.446  $\chi^2/\text{NDF}$ : 31842.9/5

Out: 1464.114+/-0.476  $\chi^2/\text{NDF}$ : 423476.5/6

All: 1426.107+/-0.325  $\chi^2/\text{NDF}$ : 467307.8/12



reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 3244.712+/-1704.851  $\chi^2/\text{NDF}$ :4.3/6

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

Left In: 310.421+/-1827.979  $\chi^2/\text{NDF}$ :3.1/5

Left: 1879.710+/-1246.770  $\chi^2/\text{NDF}$ : 8.7/12

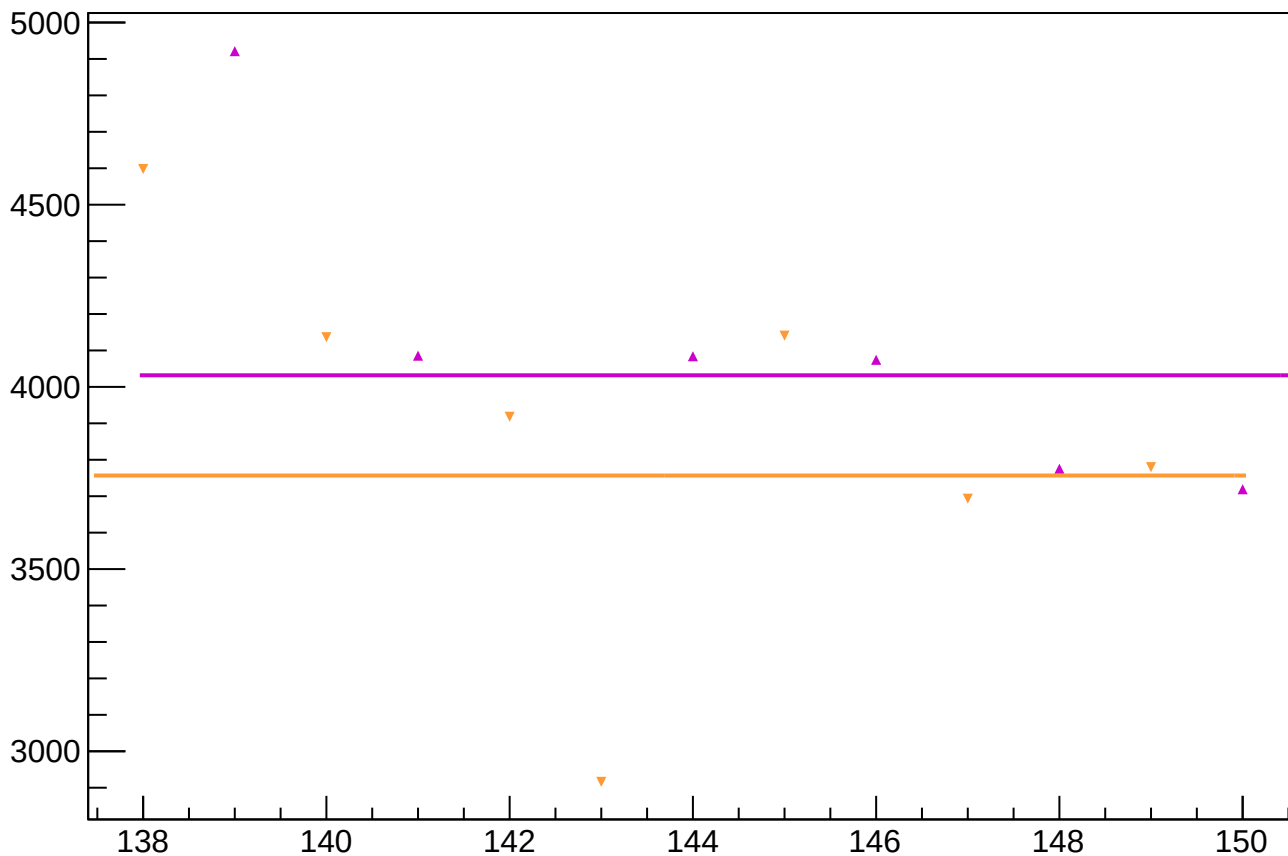
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 310.421+/-1827.979  $\chi^2/\text{NDF}$ :3.1/5

Out: 3244.712+/-1704.851  $\chi^2/\text{NDF}$ :4.3/6

All: 1879.710+/-1246.770  $\chi^2/\text{NDF}$ : 8.7/12

reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 3756.753+/-1.206  $\chi^2/\text{NDF}$ :186953.7/6

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

Left In: 4031.843+/-1.293  $\chi^2/\text{NDF}$ :67776.7/5

Left: 3884.722+/-0.882  $\chi^2/\text{NDF}$ : 278953.8/12

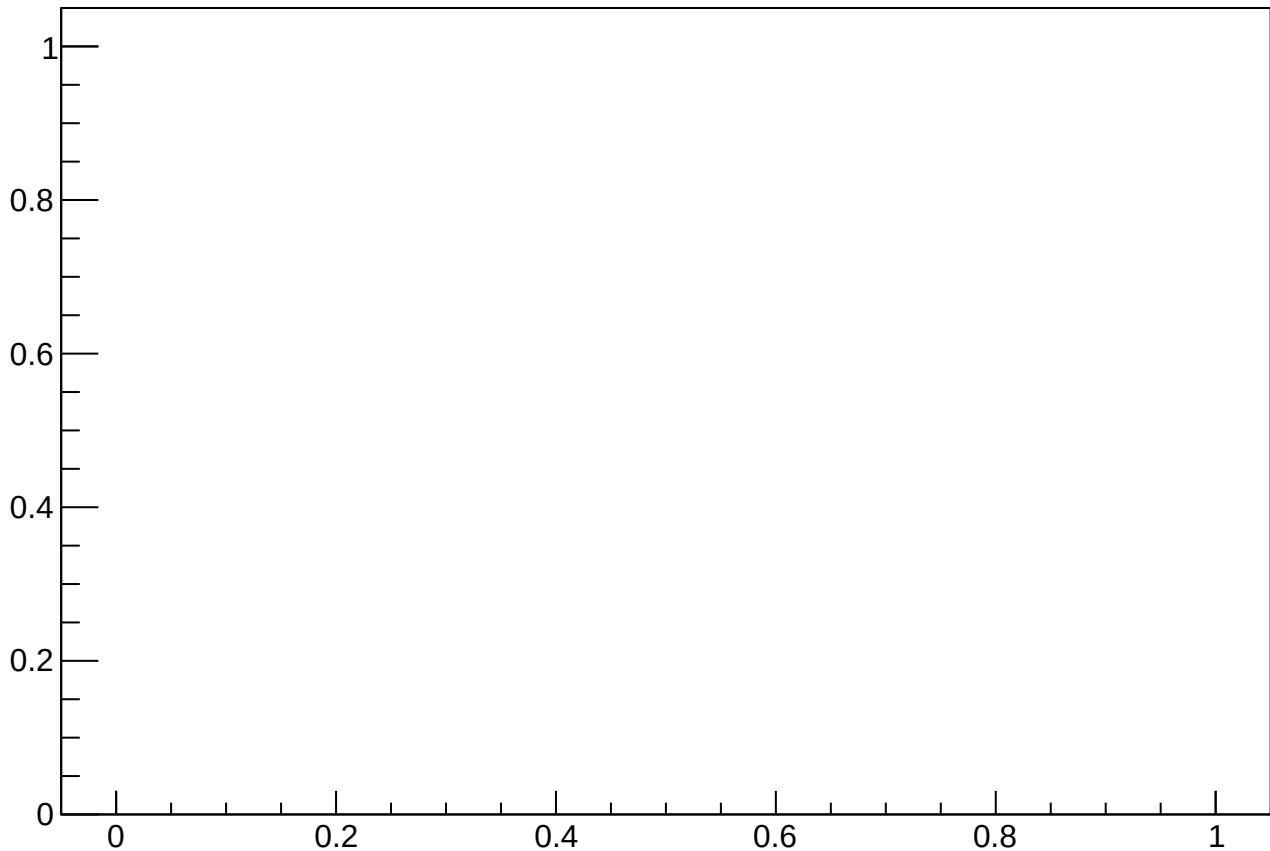
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4031.843+/-1.293  $\chi^2/\text{NDF}$ :67776.7/5

Out: 3756.753+/-1.206  $\chi^2/\text{NDF}$ :186953.7/6

All: 3884.722+/-0.882  $\chi^2/\text{NDF}$ : 278953.8/12

asym\_atl\_dd\_atr\_dd\_avg\_correction\_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

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

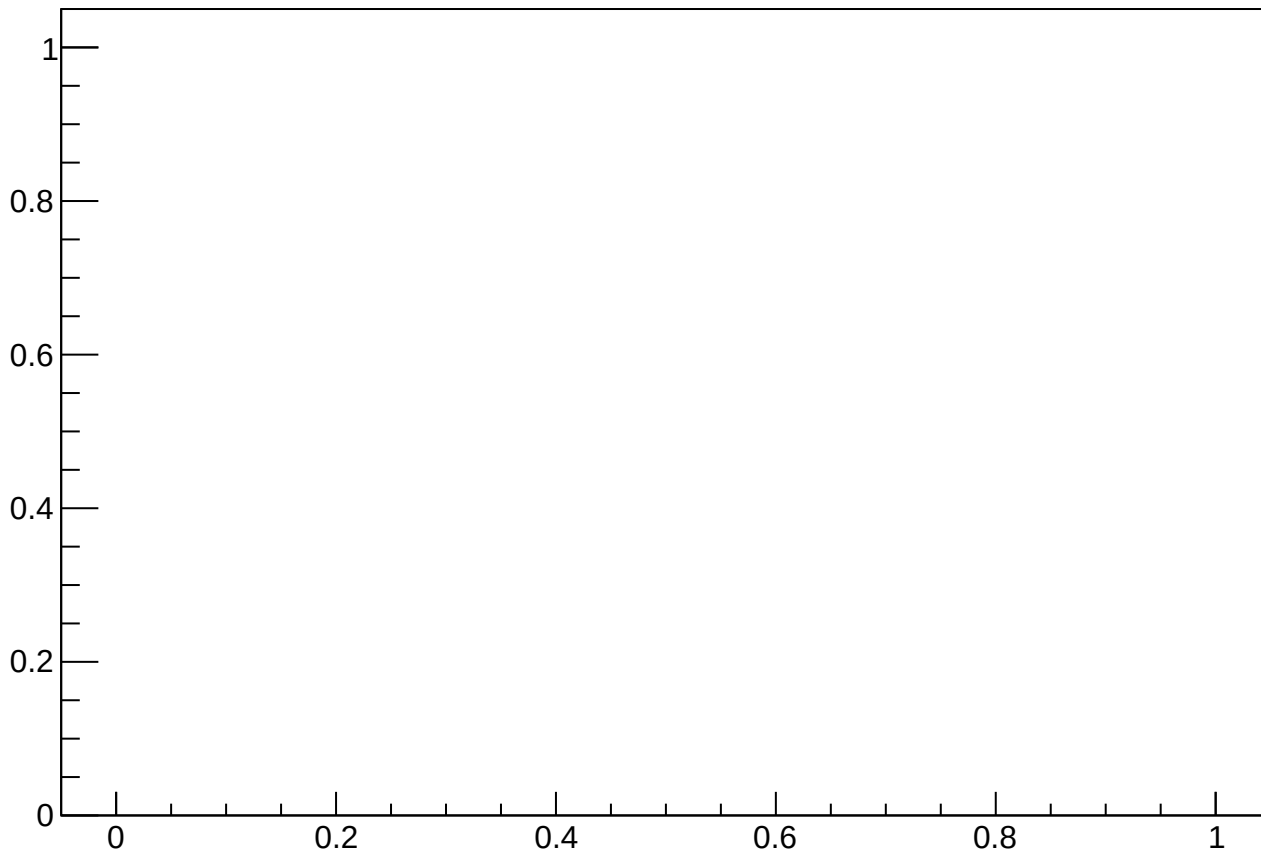
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

asym\_atl\_dd\_atr\_dd\_avg\_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

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

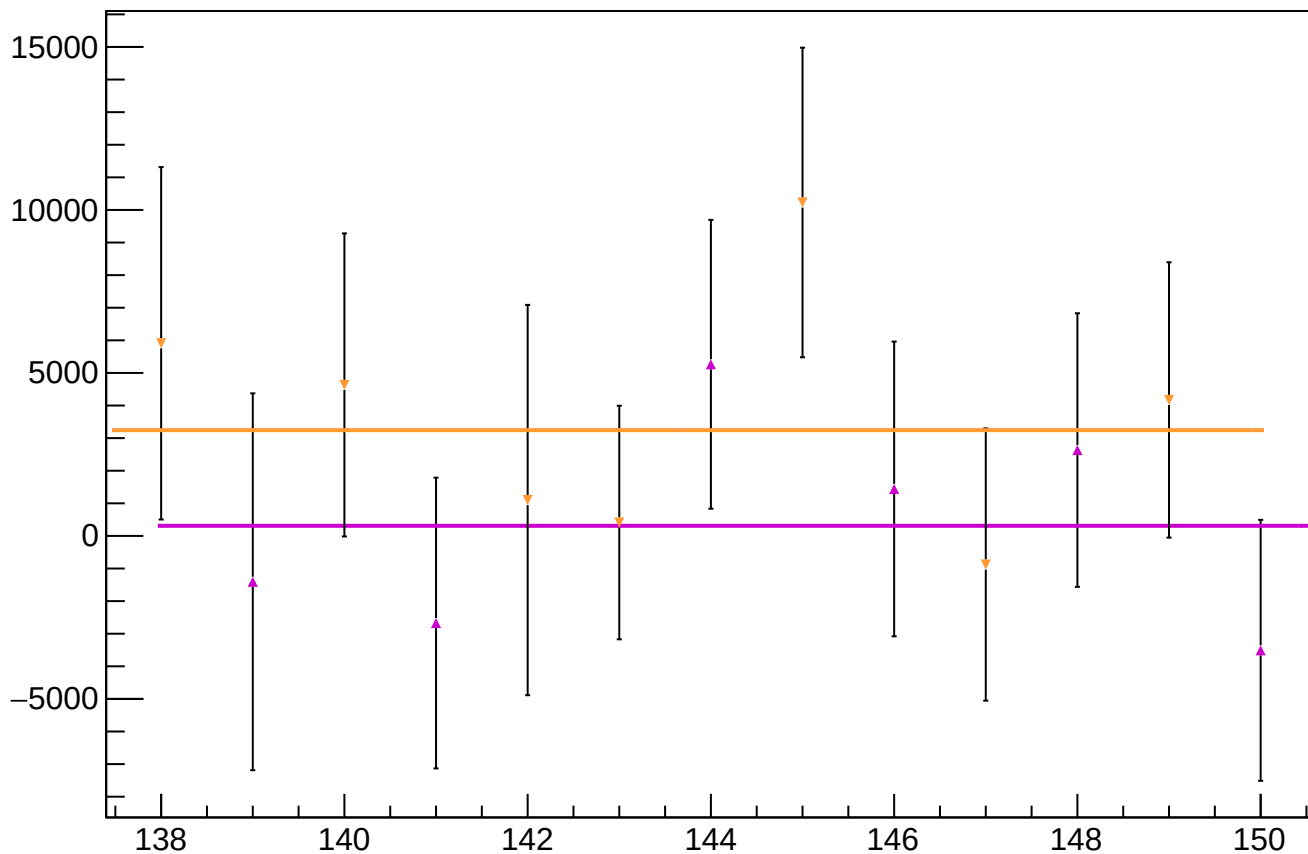
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 3244.712+/-1704.851  $\chi^2/\text{NDF}$ :4.3/6

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

Left In: 310.421+/-1827.979  $\chi^2/\text{NDF}$ :3.1/5

Left: 1879.710+/-1246.770  $\chi^2/\text{NDF}$ : 8.7/12

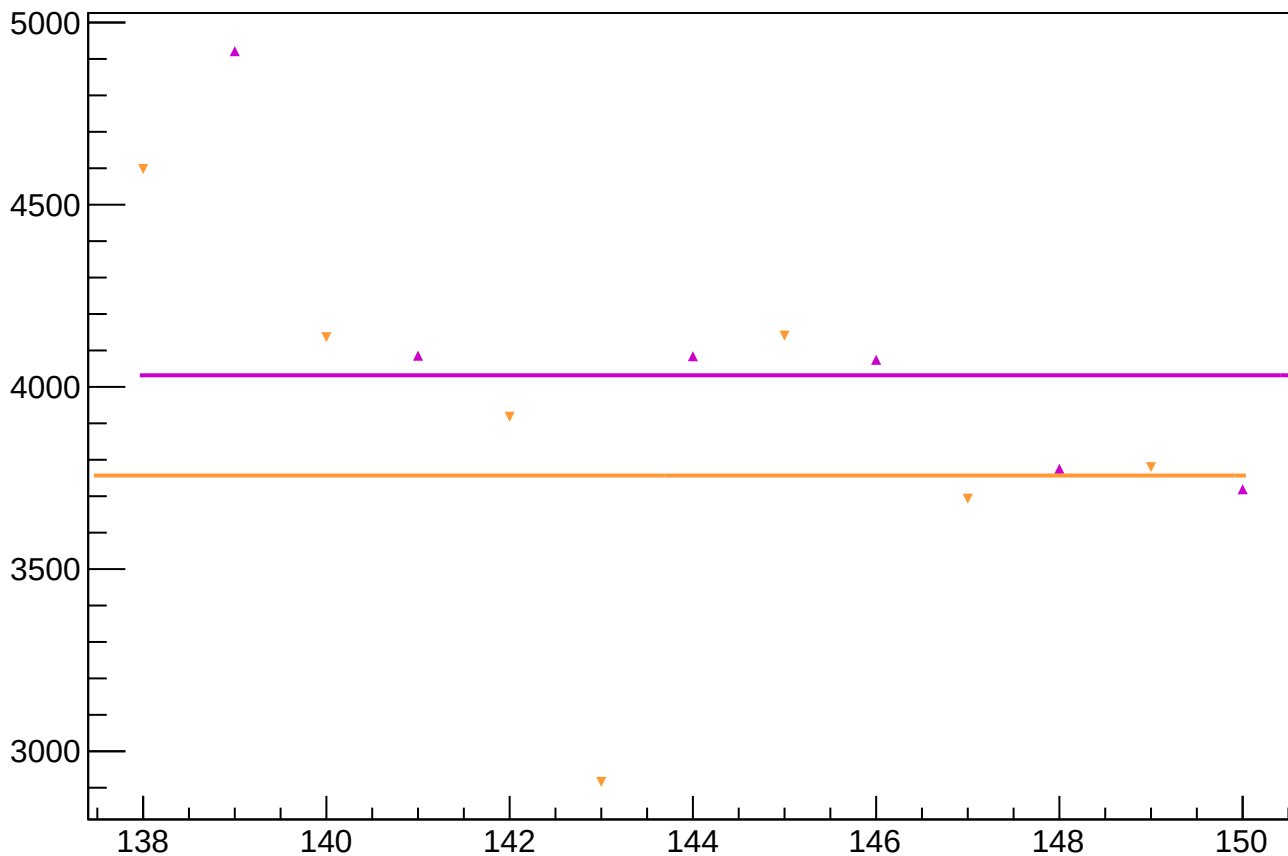
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 310.421+/-1827.979  $\chi^2/\text{NDF}$ :3.1/5

Out: 3244.712+/-1704.851  $\chi^2/\text{NDF}$ :4.3/6

All: 1879.710+/-1246.770  $\chi^2/\text{NDF}$ : 8.7/12

asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 3756.753+/-1.206  $\chi^2/\text{NDF}$ :186953.7/6

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

Left In: 4031.843+/-1.293  $\chi^2/\text{NDF}$ :67776.7/5

Left: 3884.722+/-0.882  $\chi^2/\text{NDF}$ : 278953.8/12

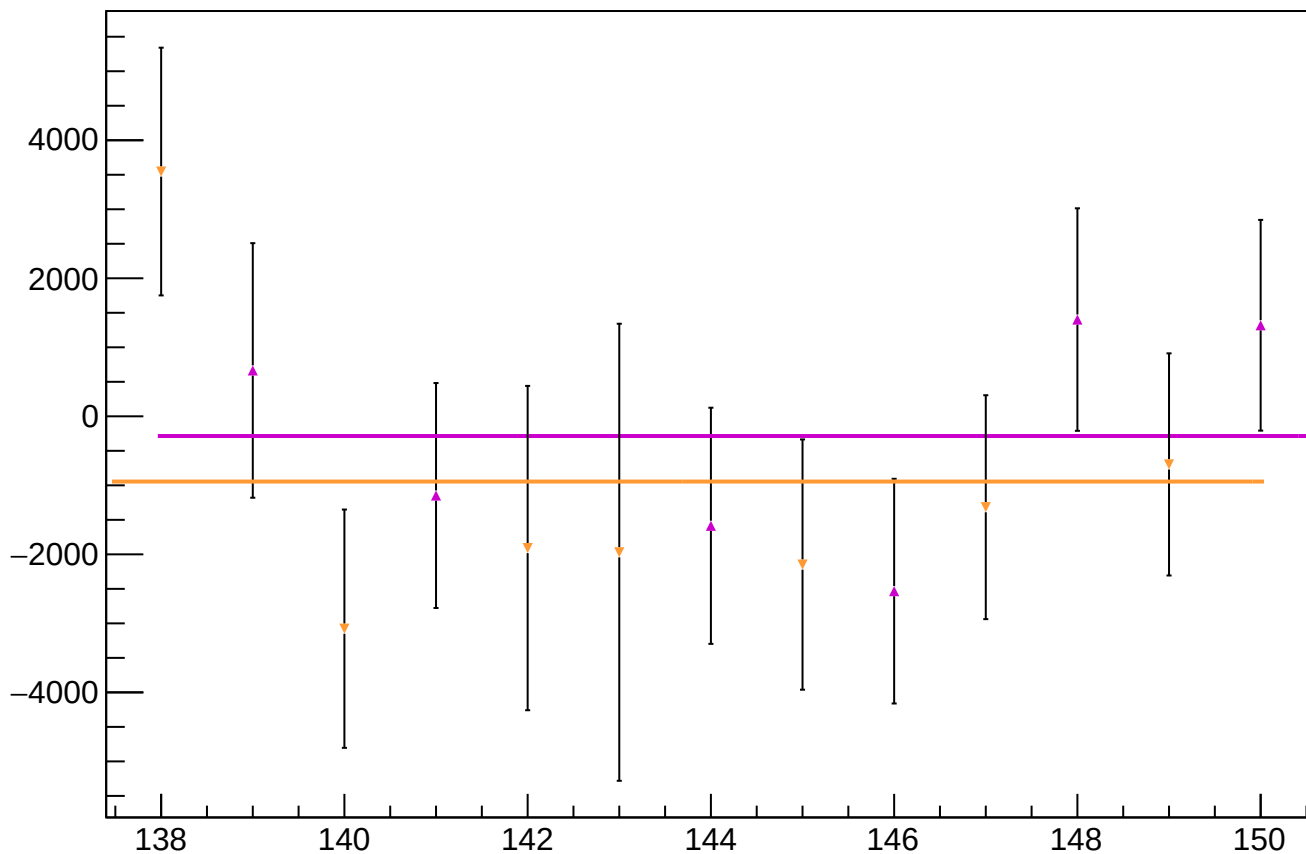
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4031.843+/-1.293  $\chi^2/\text{NDF}$ :67776.7/5

Out: 3756.753+/-1.206  $\chi^2/\text{NDF}$ :186953.7/6

All: 3884.722+/-0.882  $\chi^2/\text{NDF}$ : 278953.8/12

reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -945.251+/-709.130  $\chi^2/\text{NDF}$ :8.6/6

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

Left In: -285.525+/-673.698  $\chi^2/\text{NDF}$ :5.2/5

Left: -598.495+/-488.422  $\chi^2/\text{NDF}$ : 14.3/12

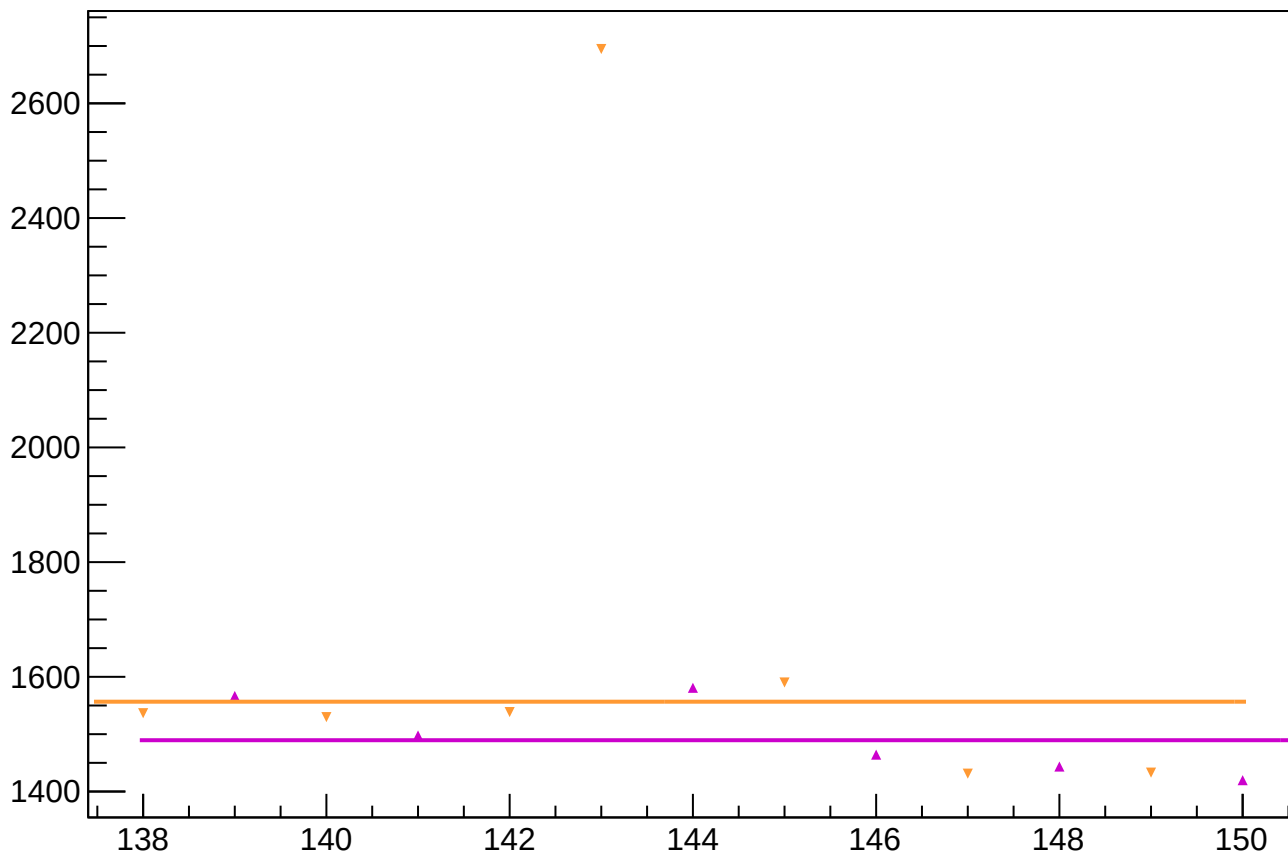
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -285.525+/-673.698  $\chi^2/\text{NDF}$ :5.2/5

Out: -945.251+/-709.130  $\chi^2/\text{NDF}$ :8.6/6

All: -598.495+/-488.422  $\chi^2/\text{NDF}$ : 14.3/12

reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1556.639+/-0.501  $\chi^2/\text{NDF}$ :261603.7/6

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

Left In: 1489.466+/-0.476  $\chi^2/\text{NDF}$ :15531.0/5

Left: 1521.332+/-0.345  $\chi^2/\text{NDF}$ : 286567.2/12

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

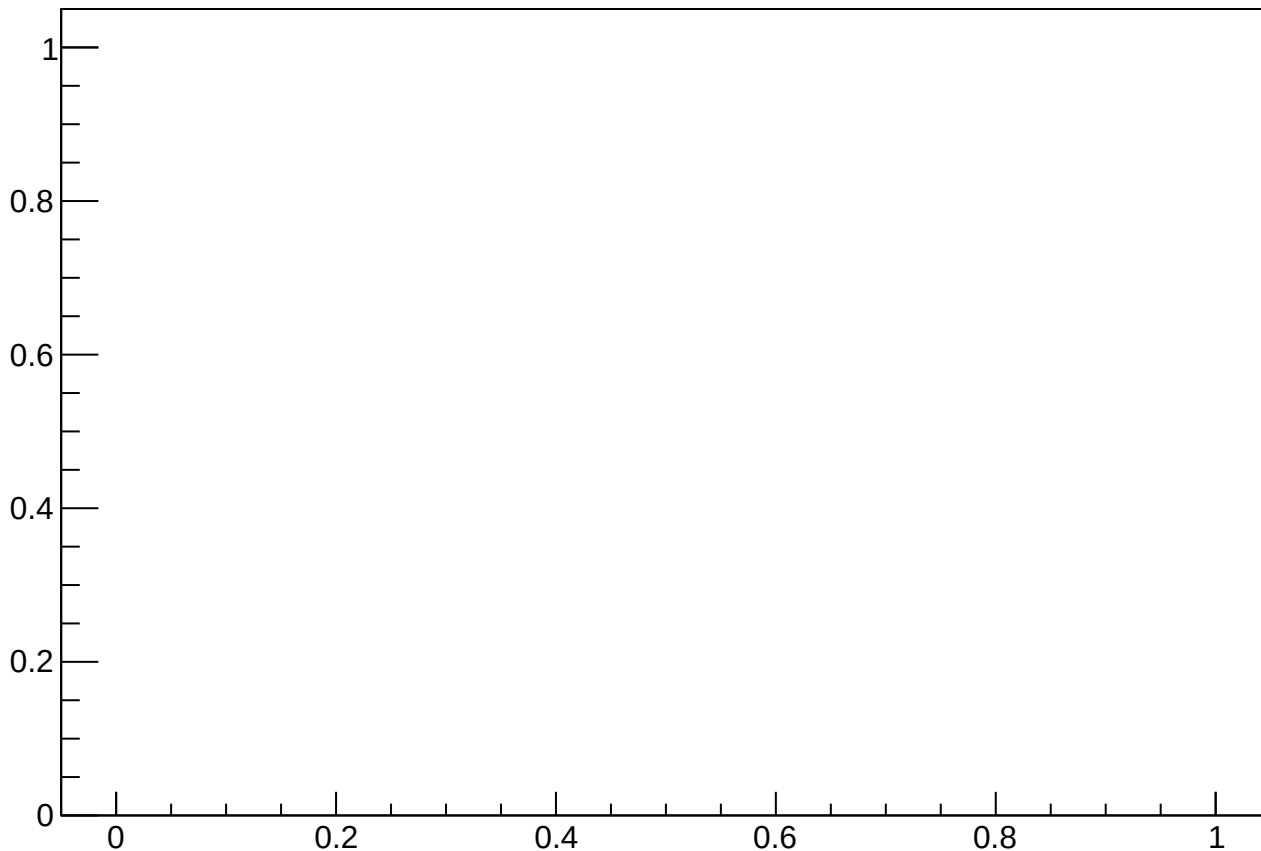
In: 1489.466+/-0.476  $\chi^2/\text{NDF}$ :15531.0/5

Out: 1556.639+/-0.501  $\chi^2/\text{NDF}$ :261603.7/6

All: 1521.332+/-0.345  $\chi^2/\text{NDF}$ : 286567.2/12



asym\_atl\_dd\_atr\_dd\_dd\_correction\_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

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

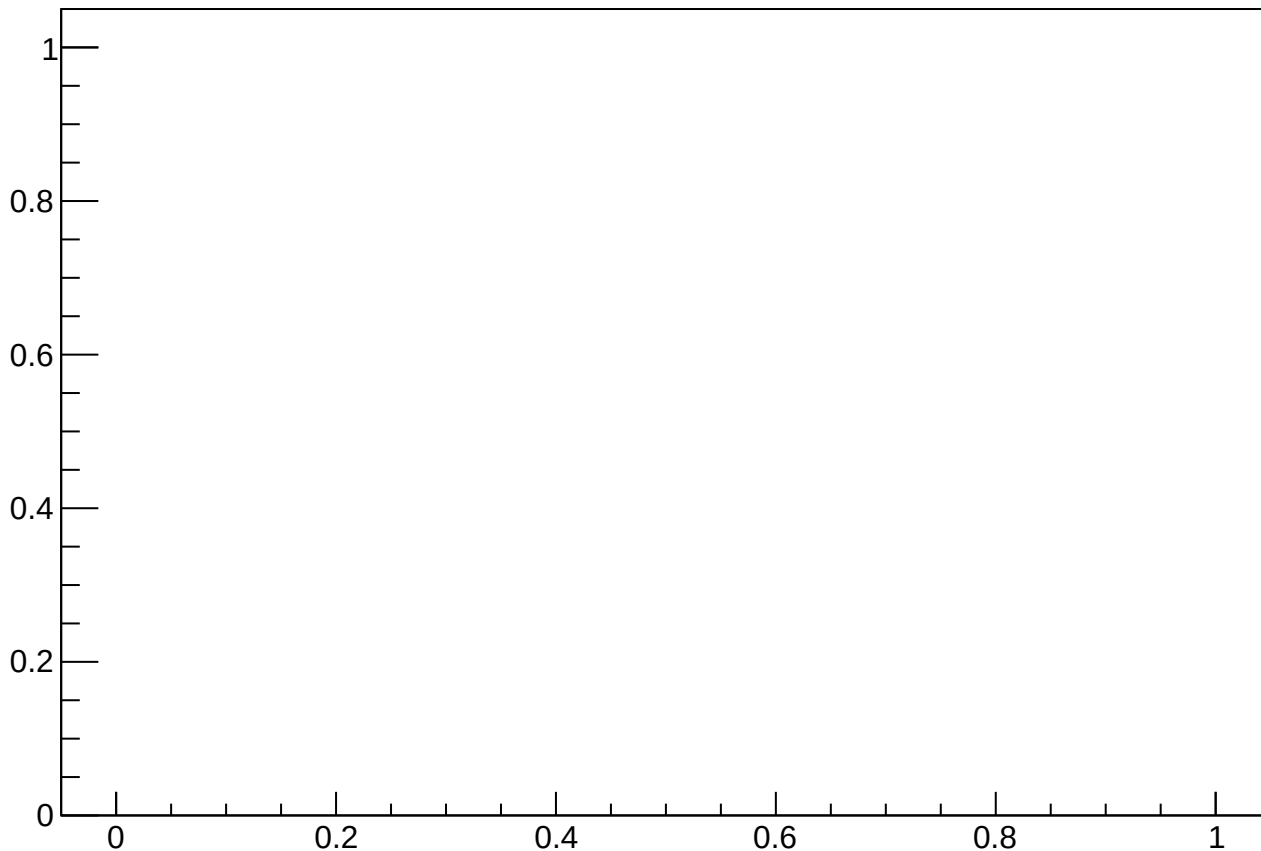
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

asym\_atl\_dd\_atr\_dd\_dd\_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

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

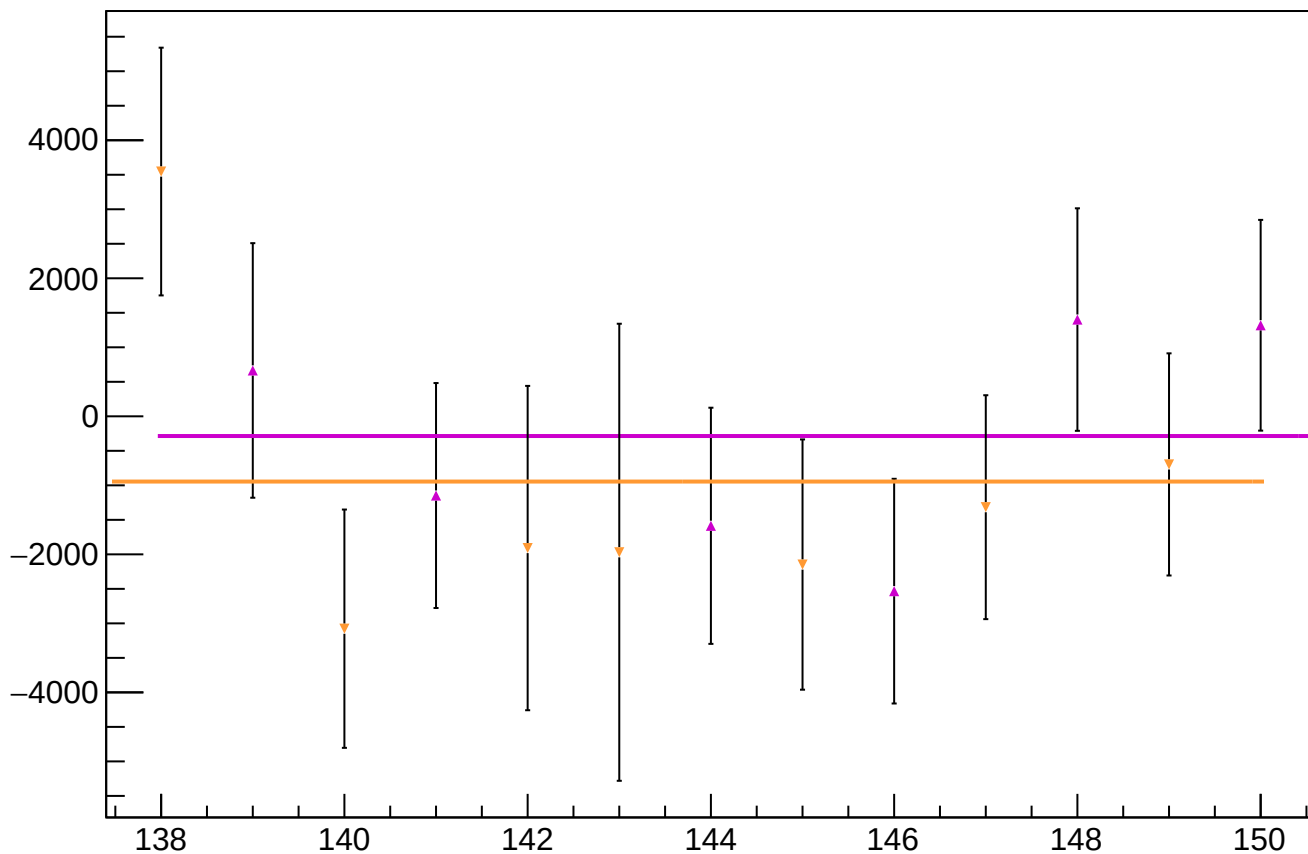
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -945.251+/-709.130  $\chi^2/\text{NDF}$ : 8.6/6

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

Left In: -285.525+/-673.698  $\chi^2/\text{NDF}$ : 5.2/5

Left: -598.495+/-488.422  $\chi^2/\text{NDF}$ : 14.3/12

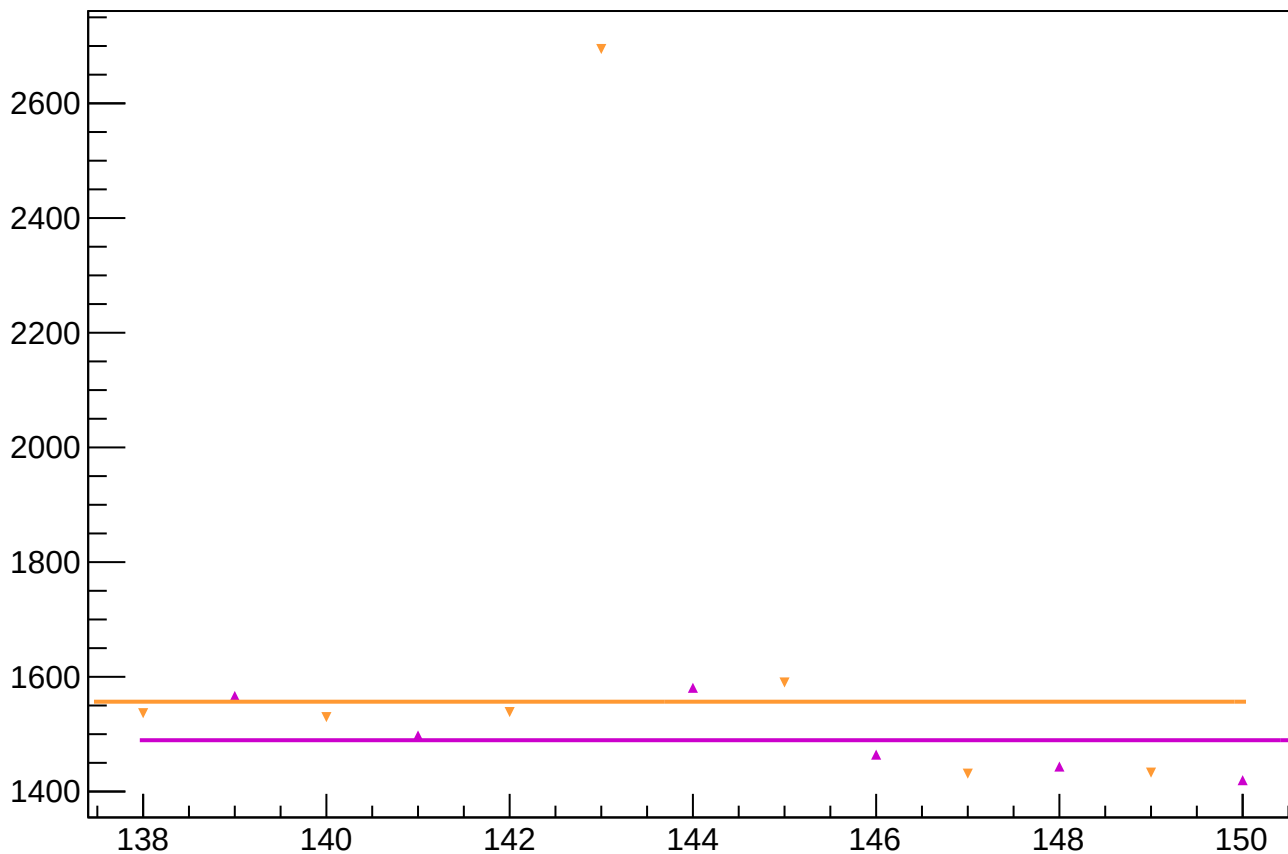
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -285.525+/-673.698  $\chi^2/\text{NDF}$ : 5.2/5

Out: -945.251+/-709.130  $\chi^2/\text{NDF}$ : 8.6/6

All: -598.495+/-488.422  $\chi^2/\text{NDF}$ : 14.3/12

asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 1556.639+/-0.501  $\chi^2/\text{NDF}$ :261603.7/6

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

Left In: 1489.466+/-0.476  $\chi^2/\text{NDF}$ :15531.0/5

Left: 1521.332+/-0.345  $\chi^2/\text{NDF}$ : 286567.2/12

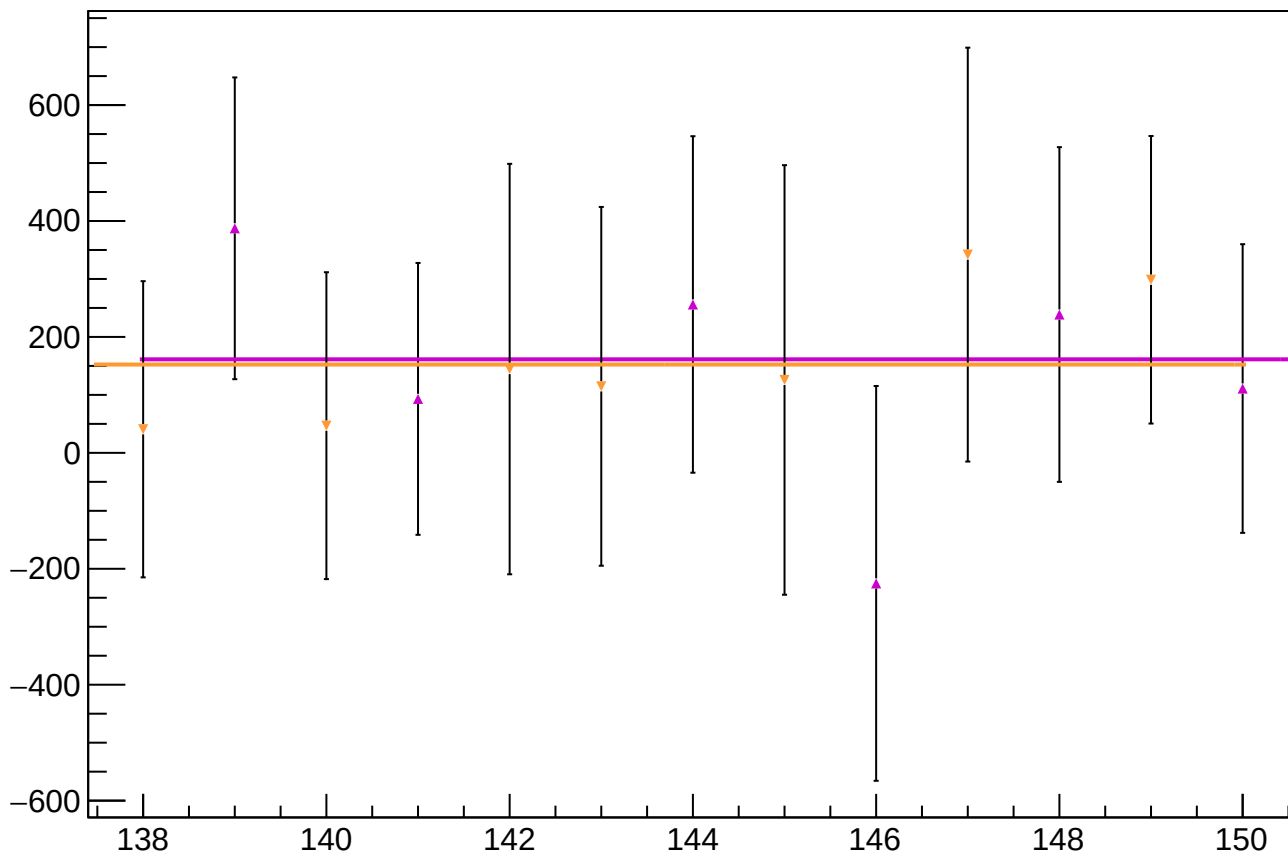
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1489.466+/-0.476  $\chi^2/\text{NDF}$ :15531.0/5

Out: 1556.639+/-0.501  $\chi^2/\text{NDF}$ :261603.7/6

All: 1521.332+/-0.345  $\chi^2/\text{NDF}$ : 286567.2/12

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 152.371+/-112.231  $\chi^2/\text{NDF}$ : 1.0/6

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

Left In: 161.358+/-110.732  $\chi^2/\text{NDF}$ : 2.3/5

Left: 156.925+/-78.824  $\chi^2/\text{NDF}$ : 3.3/12

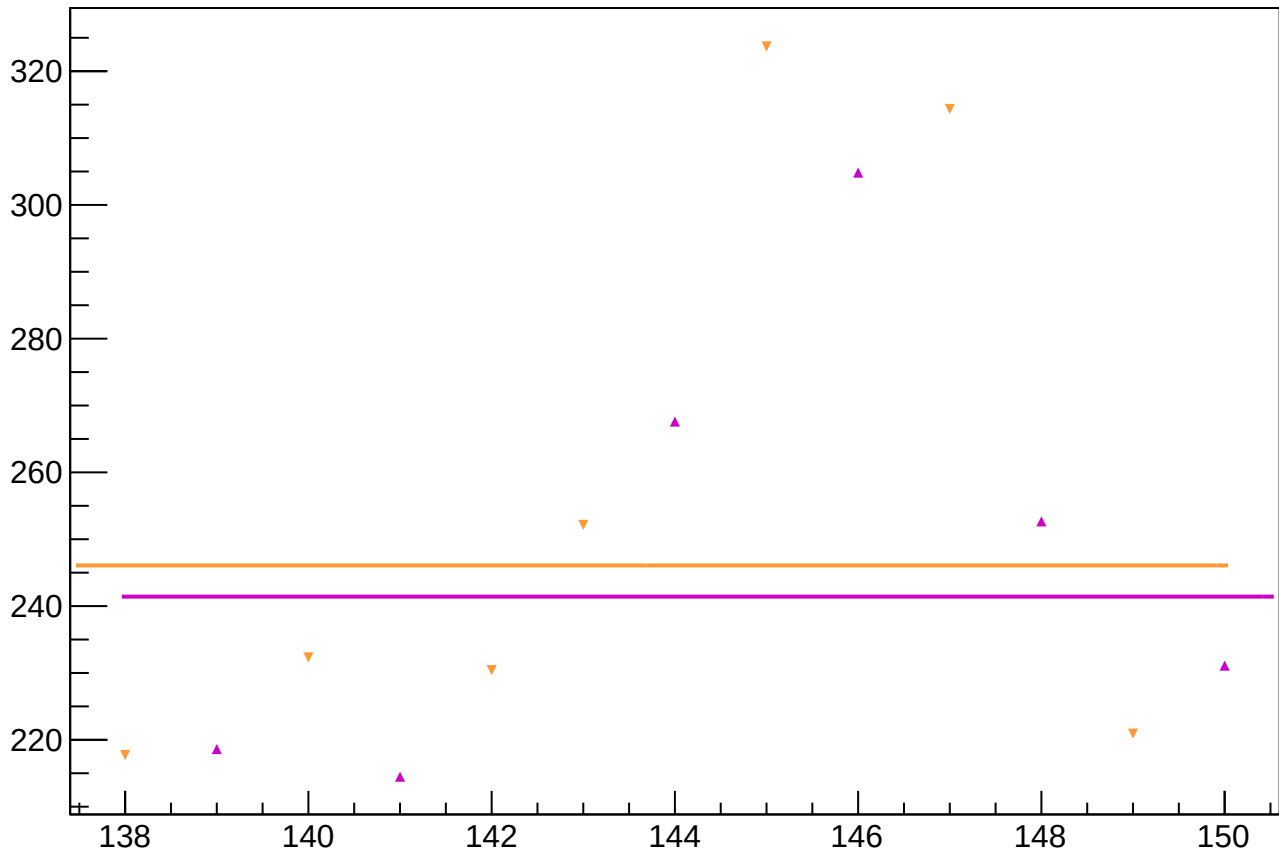
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 161.358+/-110.732  $\chi^2/\text{NDF}$ : 2.3/5

Out: 152.371+/-112.231  $\chi^2/\text{NDF}$ : 1.0/6

All: 156.925+/-78.824  $\chi^2/\text{NDF}$ : 3.3/12

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 246.079+/-0.079  $\chi^2/\text{NDF}$ :216194.2/6

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

Left In: 241.418+/-0.078  $\chi^2/\text{NDF}$ :133830.4/5

Left: 243.717+/-0.056  $\chi^2/\text{NDF}$ : 351772.7/12

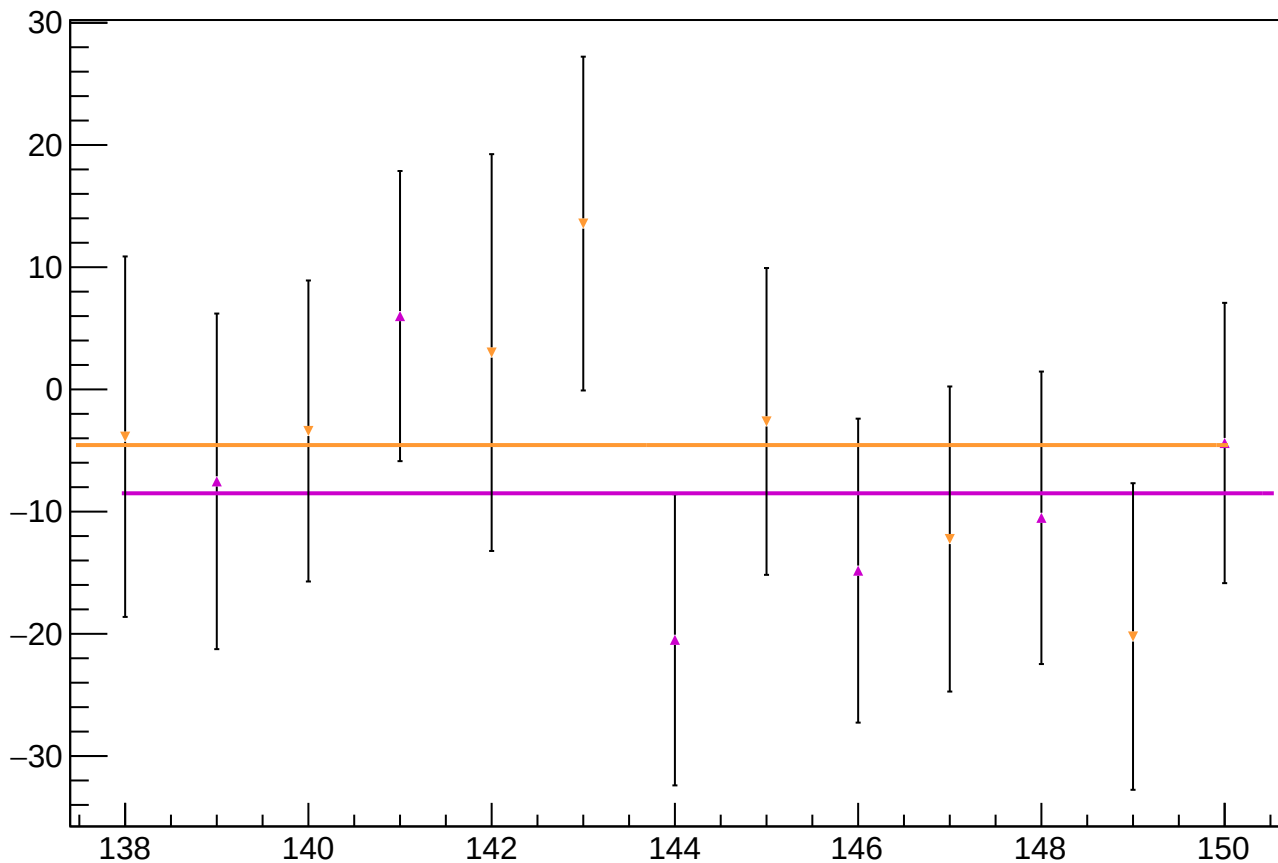
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 241.418+/-0.078  $\chi^2/\text{NDF}$ :133830.4/5

Out: 246.079+/-0.079  $\chi^2/\text{NDF}$ :216194.2/6

All: 243.717+/-0.056  $\chi^2/\text{NDF}$ : 351772.7/12

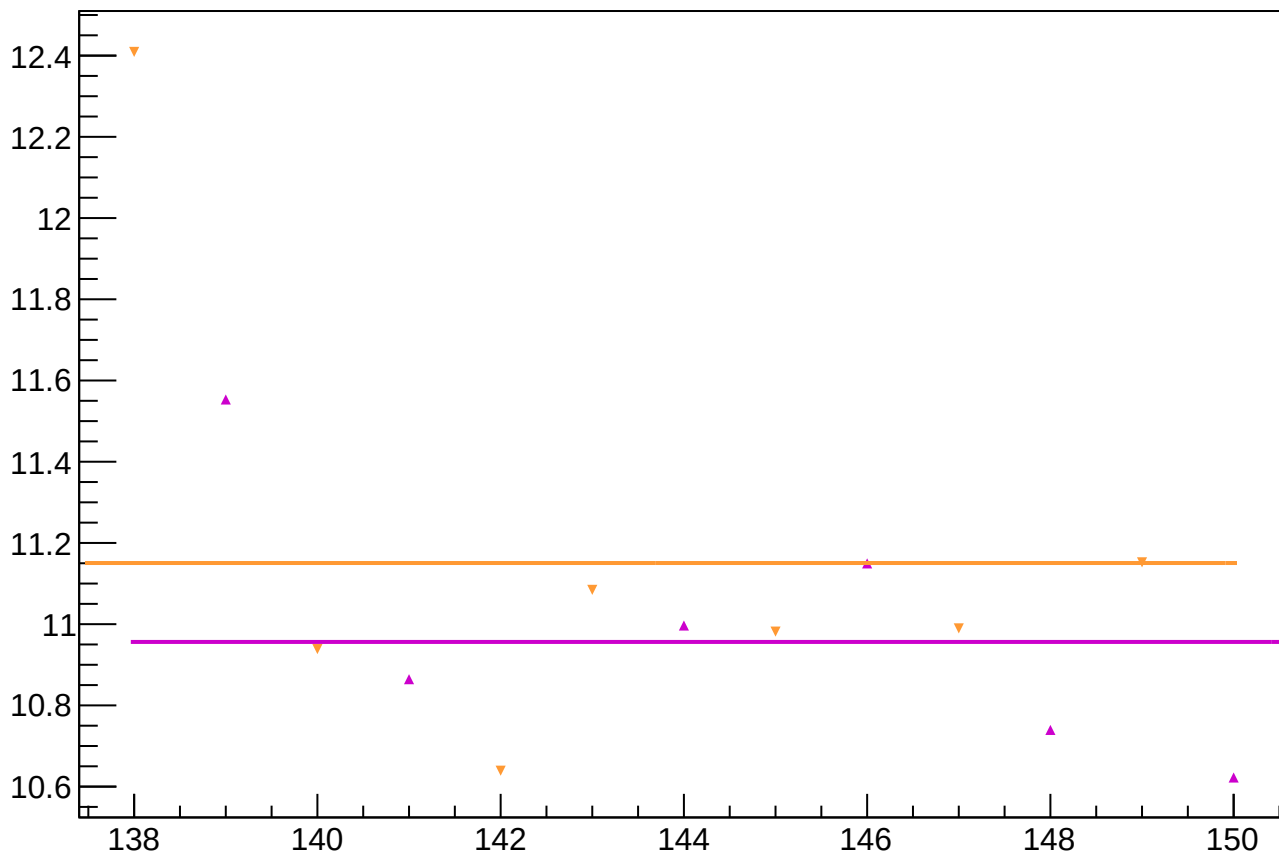
asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -4.554+/-5.034  $\chi^2/\text{NDF}$ : 4.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.500+/-4.969  $\chi^2/\text{NDF}$ : 2.9/5

Left: -6.553+/-3.536  $\chi^2/\text{NDF}$ : 7.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -8.500+/-4.969  $\chi^2/\text{NDF}$ : 2.9/5  
 Out: -4.554+/-5.034  $\chi^2/\text{NDF}$ : 4.0/6  
 All: -6.553+/-3.536  $\chi^2/\text{NDF}$ : 7.2/12

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 11.151+/-0.004  $\chi^2/\text{NDF}$ :17881.6/6

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

Left In: 10.956+/-0.004  $\chi^2/\text{NDF}$ :6757.8/5

Left: 11.052+/-0.003  $\chi^2/\text{NDF}$ : 26149.1/12

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

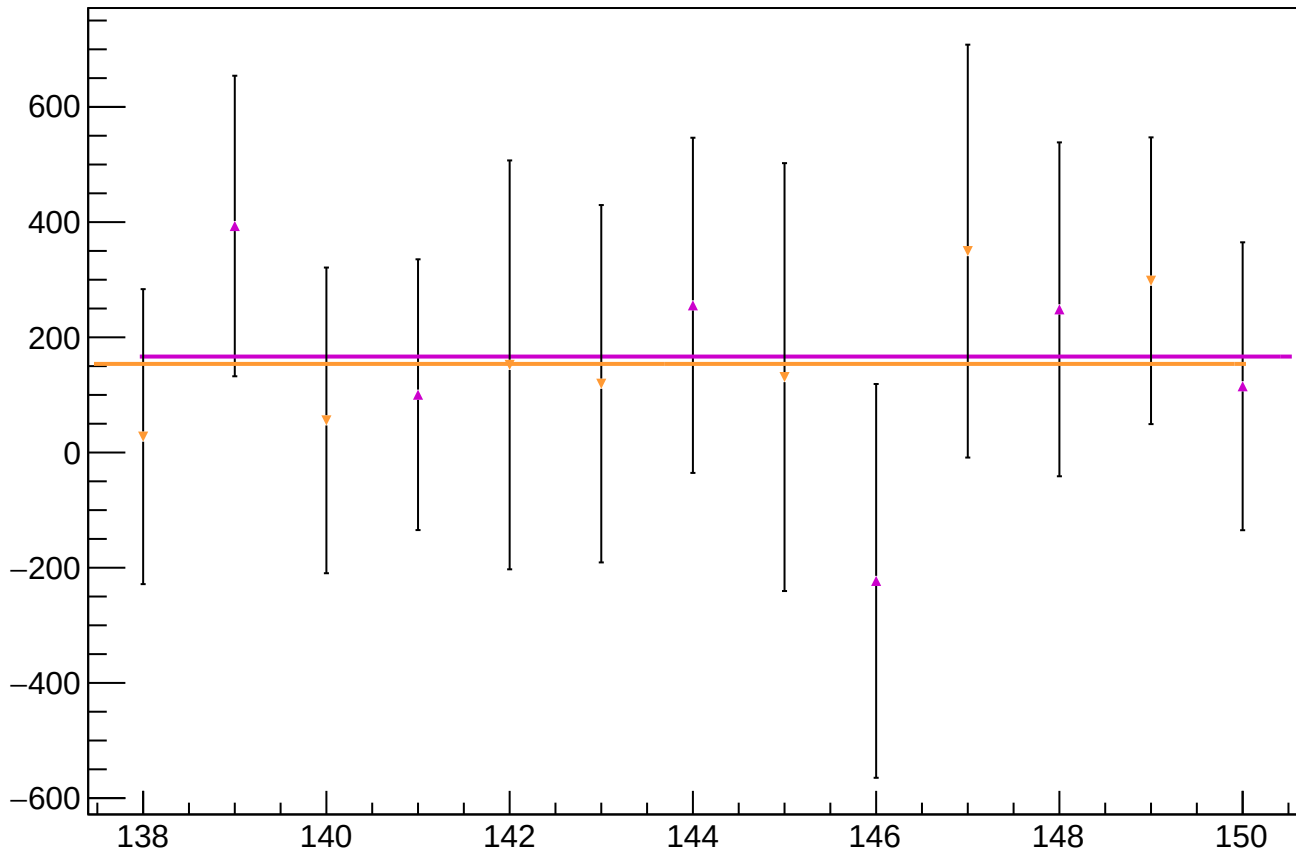
In: 10.956+/-0.004  $\chi^2/\text{NDF}$ :6757.8/5

Out: 11.151+/-0.004  $\chi^2/\text{NDF}$ :17881.6/6

All: 11.052+/-0.003  $\chi^2/\text{NDF}$ : 26149.1/12



asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 153.848+/-112.541  $\chi^2/\text{NDF}$ : 1.0/6

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

Left In: 166.602+/-111.058  $\chi^2/\text{NDF}$ : 2.3/5

Left: 160.310+/-79.049  $\chi^2/\text{NDF}$ : 3.4/12

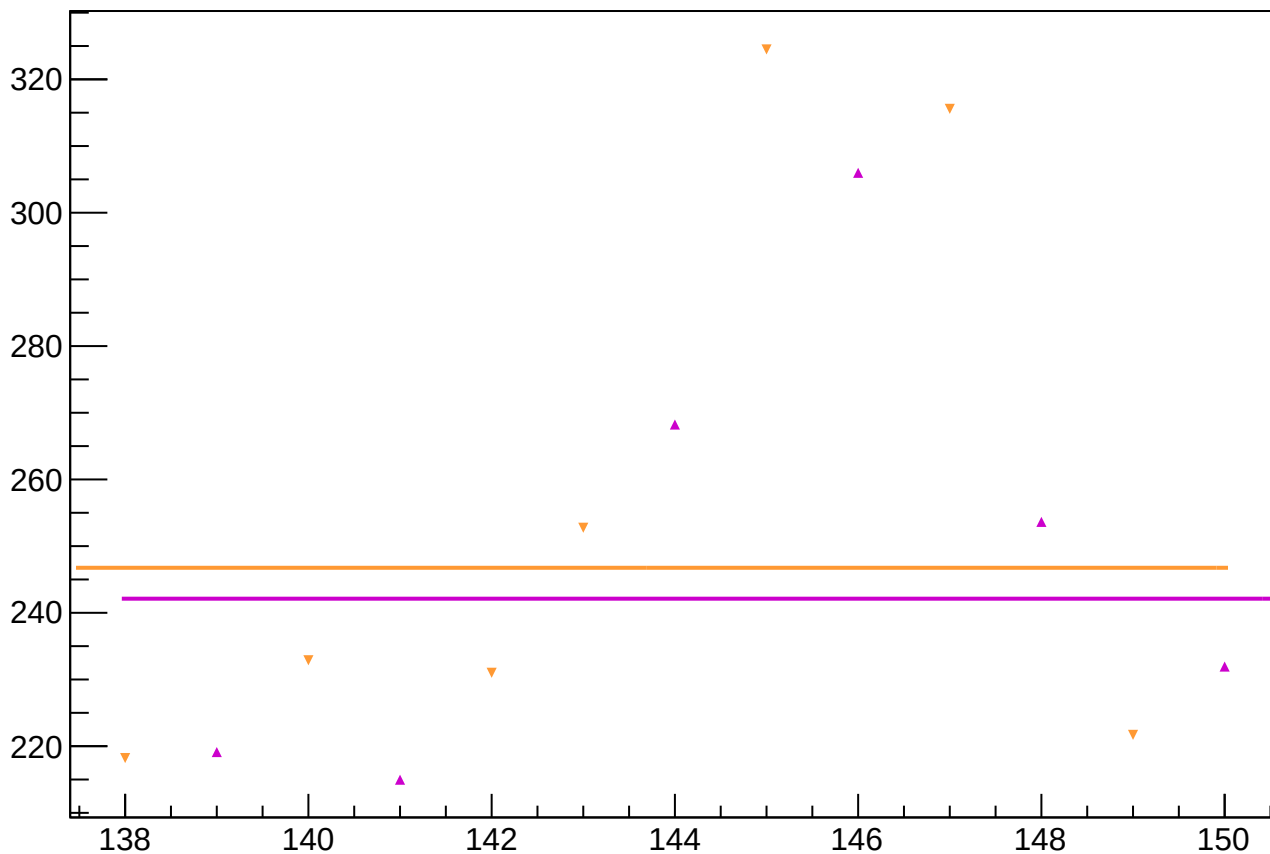
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 166.602+/-111.058  $\chi^2/\text{NDF}$ : 2.3/5

Out: 153.848+/-112.541  $\chi^2/\text{NDF}$ : 1.0/6

All: 160.310+/-79.049  $\chi^2/\text{NDF}$ : 3.4/12

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 246.753+/-0.080  $\chi^2/\text{NDF}$ :216593.6/6

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

Left In: 242.119+/-0.079  $\chi^2/\text{NDF}$ :134624.2/5

Left: 244.405+/-0.056  $\chi^2/\text{NDF}$ : 352936.4/12

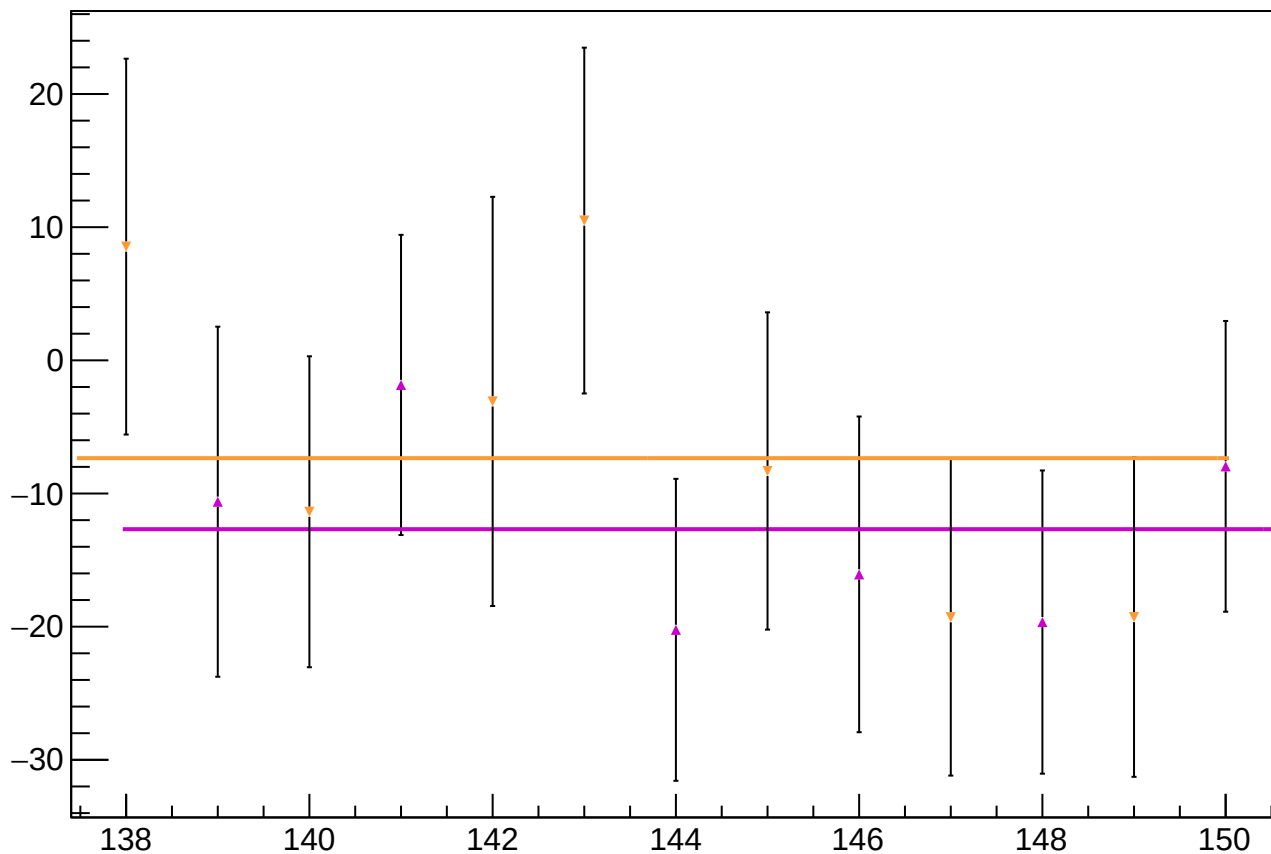
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 242.119+/-0.079  $\chi^2/\text{NDF}$ :134624.2/5

Out: 246.753+/-0.080  $\chi^2/\text{NDF}$ :216593.6/6

All: 244.405+/-0.056  $\chi^2/\text{NDF}$ : 352936.4/12

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -7.346+/-4.790  $\chi^2/\text{NDF}$ :5.4/6

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

Left In: -12.678+/-4.732  $\chi^2/\text{NDF}$ :2.0/5

Left: -10.045+/-3.366  $\chi^2/\text{NDF}$ : 8.0/12

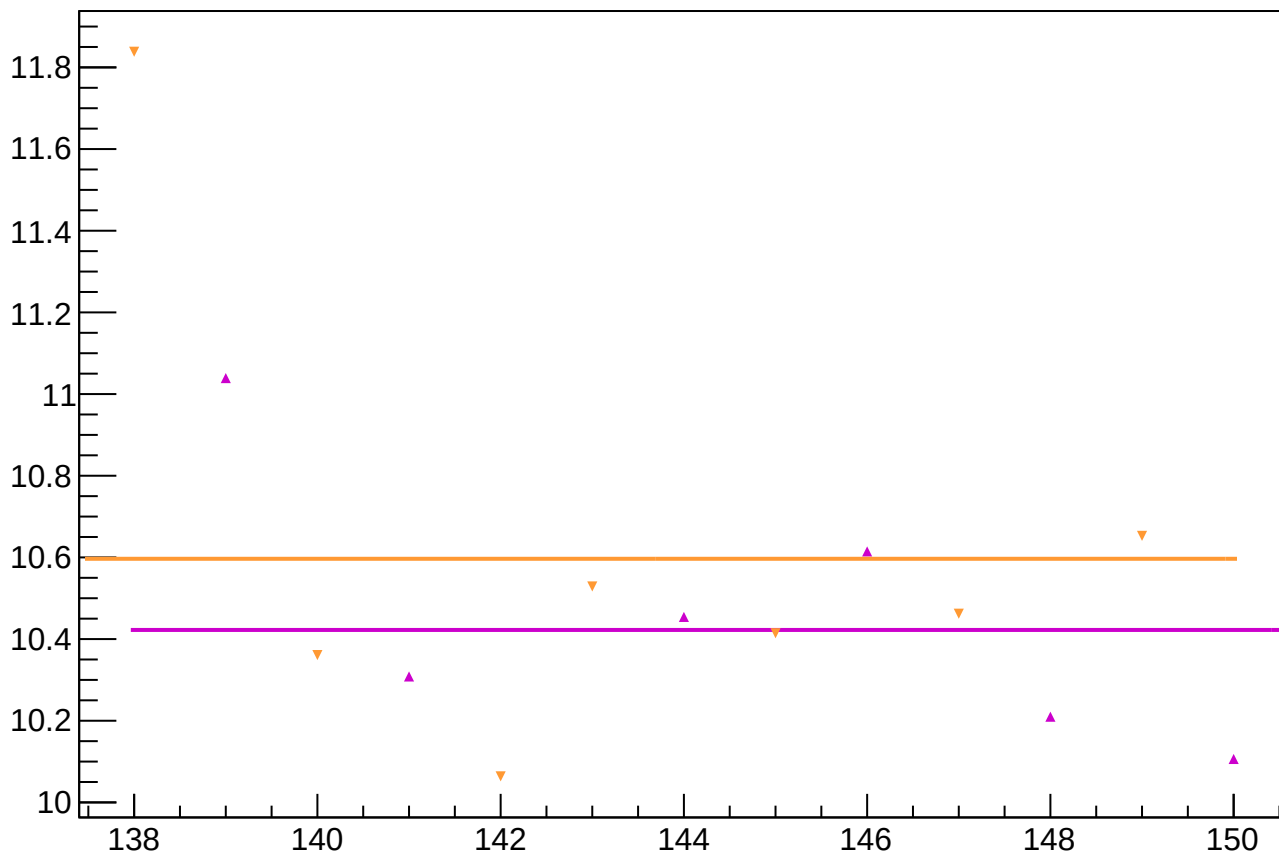
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.678+/-4.732  $\chi^2/\text{NDF}$ :2.0/5

Out: -7.346+/-4.790  $\chi^2/\text{NDF}$ :5.4/6

All: -10.045+/-3.366  $\chi^2/\text{NDF}$ : 8.0/12

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 10.597+/-0.003  $\chi^2/\text{NDF}$ :19526.2/6

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

Left In: 10.422+/-0.003  $\chi^2/\text{NDF}$ :7521.3/5

Left: 10.508+/-0.002  $\chi^2/\text{NDF}$ : 28387.4/12

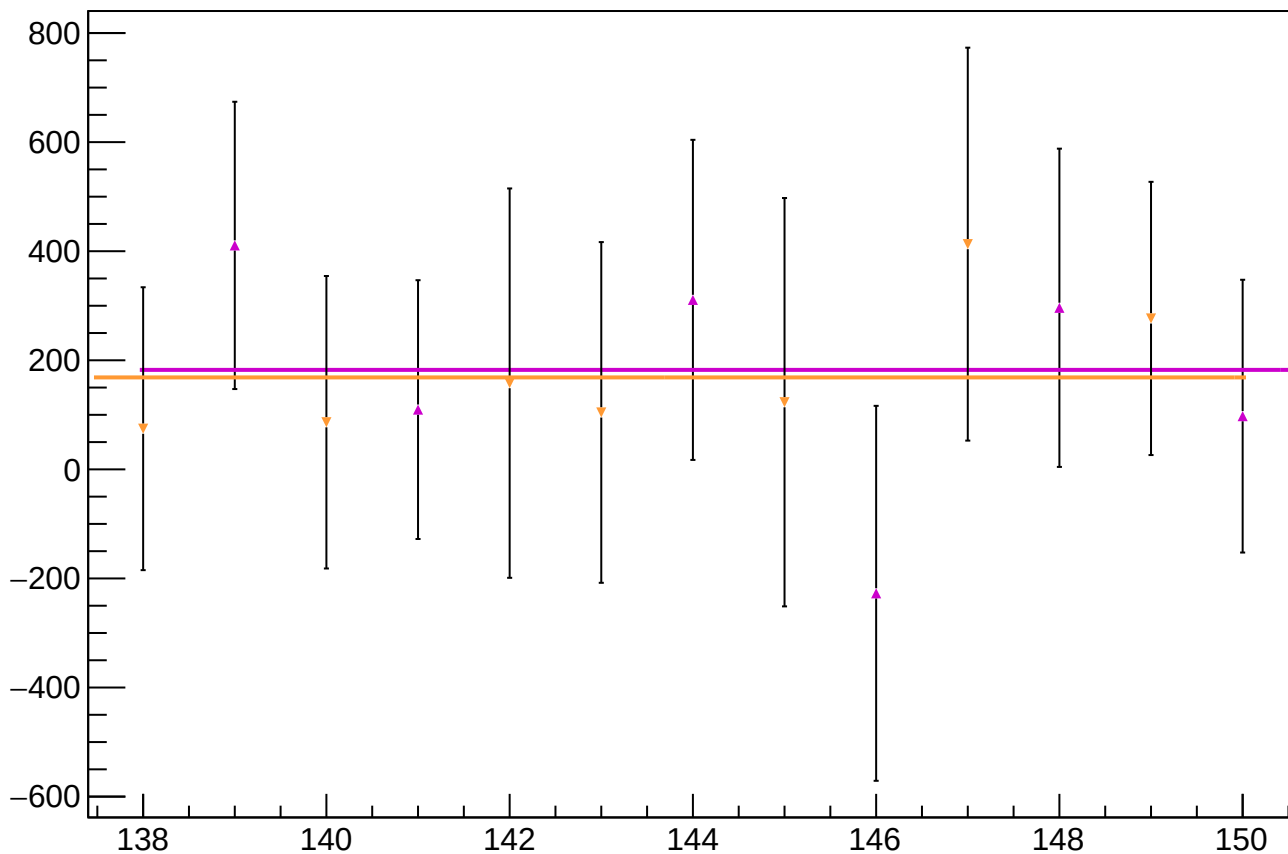
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 10.422+/-0.003  $\chi^2/\text{NDF}$ :7521.3/5

Out: 10.597+/-0.003  $\chi^2/\text{NDF}$ :19526.2/6

All: 10.508+/-0.002  $\chi^2/\text{NDF}$ : 28387.4/12

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 168.601 $\pm$ 113.480  $\chi^2/\text{NDF}$ : 0.9/6

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

Left In: 182.421 $\pm$ 111.807  $\chi^2/\text{NDF}$ : 2.7/5

Left: 175.614 $\pm$ 79.644  $\chi^2/\text{NDF}$ : 3.7/12

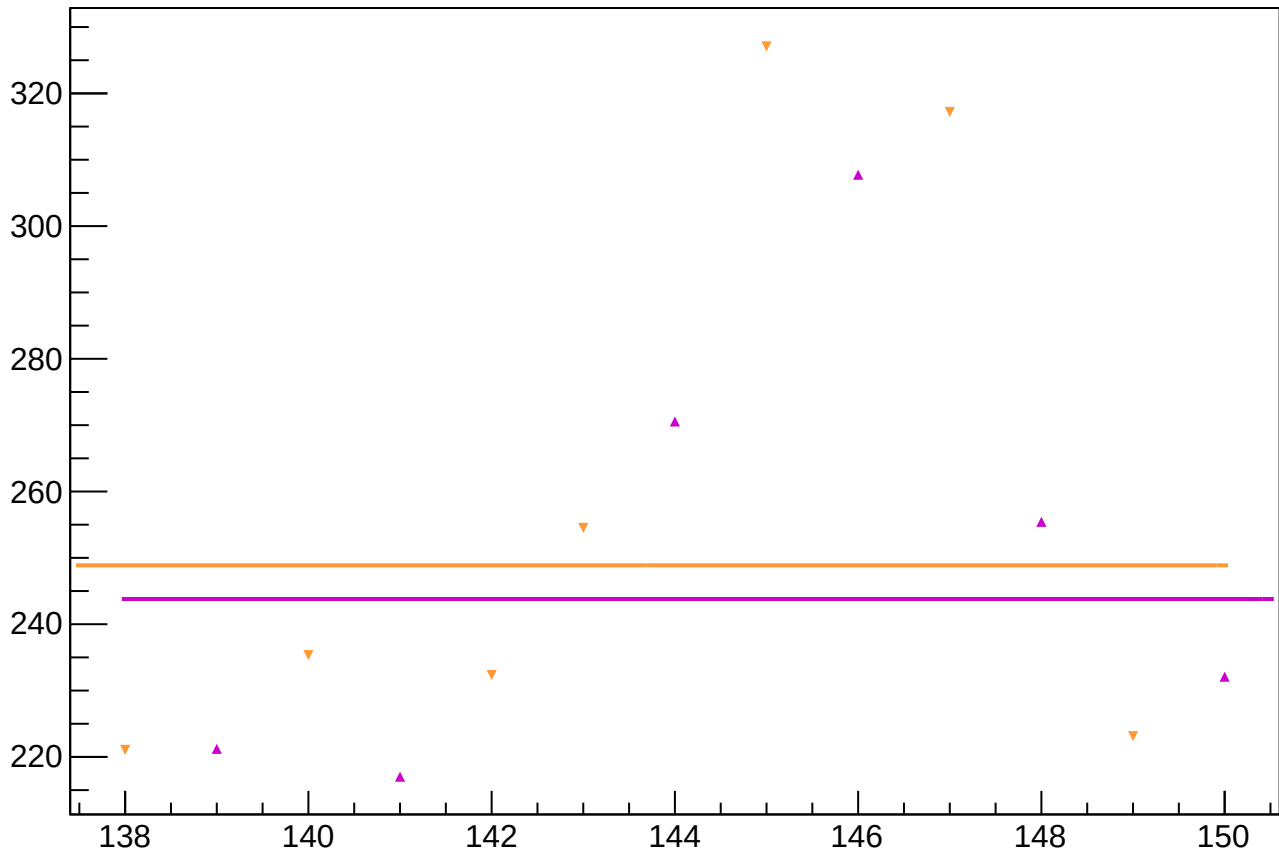
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 182.421 $\pm$ 111.807  $\chi^2/\text{NDF}$ : 2.7/5

Out: 168.601 $\pm$ 113.480  $\chi^2/\text{NDF}$ : 0.9/6

All: 175.614 $\pm$ 79.644  $\chi^2/\text{NDF}$ : 3.7/12

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 248.879+/-0.080  $\chi^2/\text{NDF}$ :213400.8/6

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

Left In: 243.804+/-0.079  $\chi^2/\text{NDF}$ :133585.1/5

Left: 246.304+/-0.056  $\chi^2/\text{NDF}$ : 349016.1/12

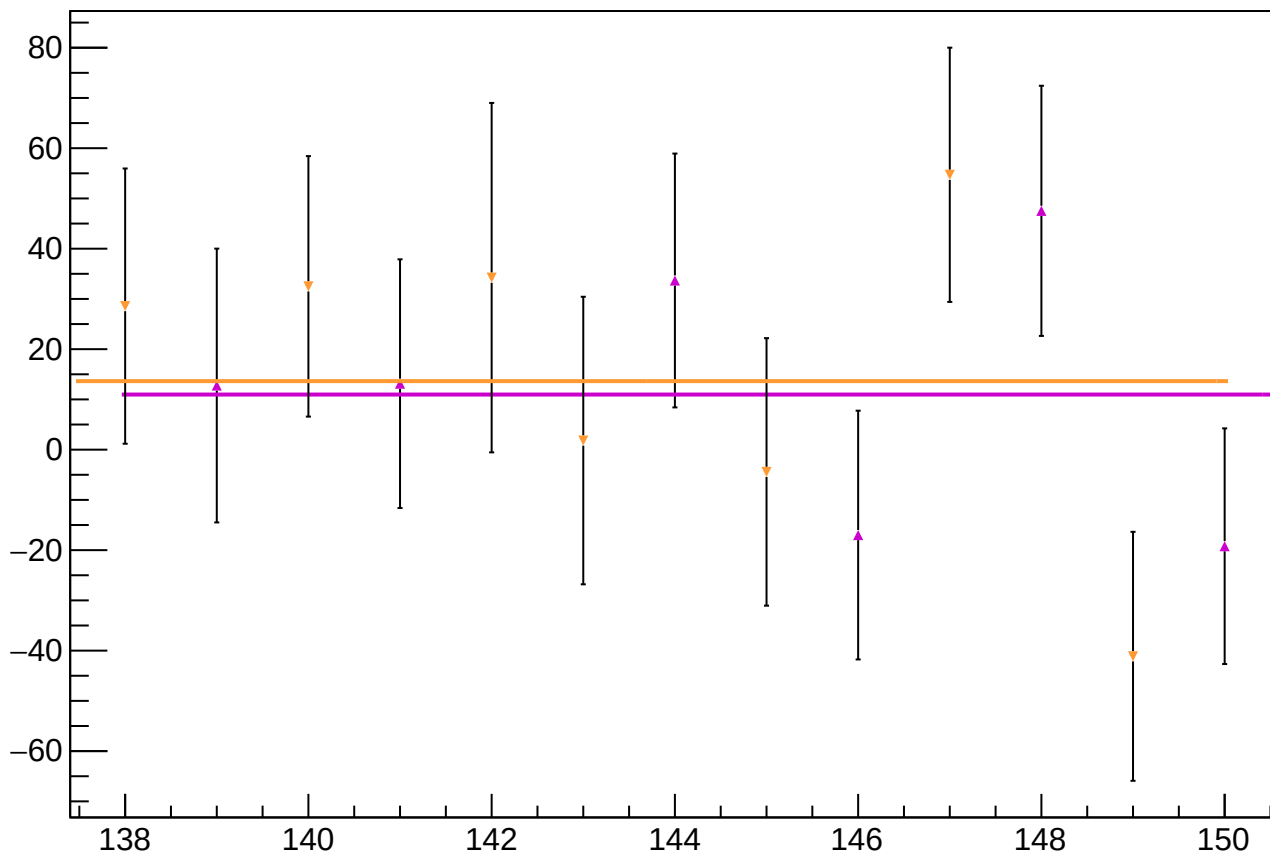
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 243.804+/-0.079  $\chi^2/\text{NDF}$ :133585.1/5

Out: 248.879+/-0.080  $\chi^2/\text{NDF}$ :213400.8/6

All: 246.304+/-0.056  $\chi^2/\text{NDF}$ : 349016.1/12

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 13.640+/-10.276  $\chi^2/\text{NDF}$ :9.3/6

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

Left In: 10.969+/-10.201  $\chi^2/\text{NDF}$ :5.9/5

Left: 12.295+/-7.239  $\chi^2/\text{NDF}$ : 15.3/12

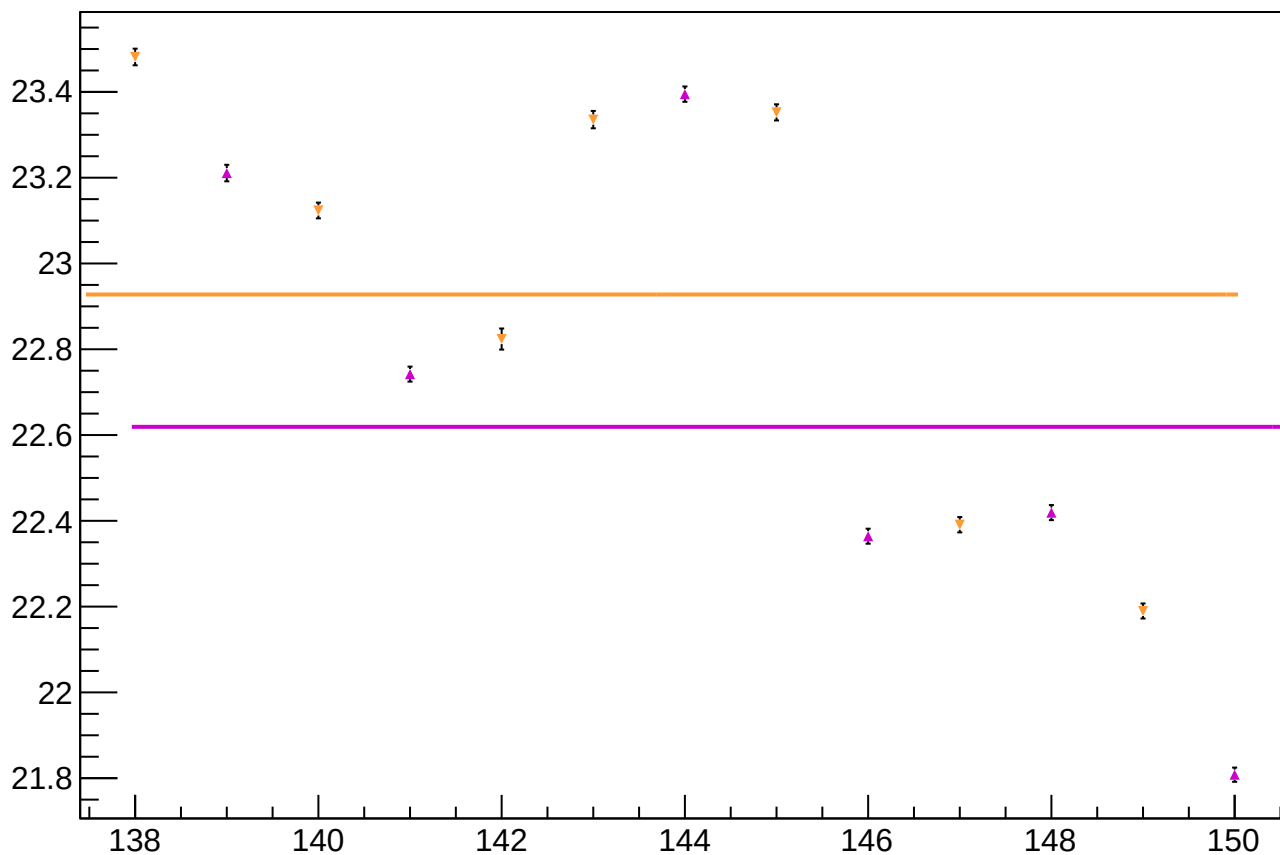
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 10.969+/-10.201  $\chi^2/\text{NDF}$ :5.9/5

Out: 13.640+/-10.276  $\chi^2/\text{NDF}$ :9.3/6

All: 12.295+/-7.239  $\chi^2/\text{NDF}$ : 15.3/12

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 22.928+/-0.007  $\chi^2/\text{NDF}$ :4538.1/6

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

Left In: 22.619+/-0.007  $\chi^2/\text{NDF}$ :5611.1/5

Left: 22.772+/-0.005  $\chi^2/\text{NDF}$ : 11057.5/12

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

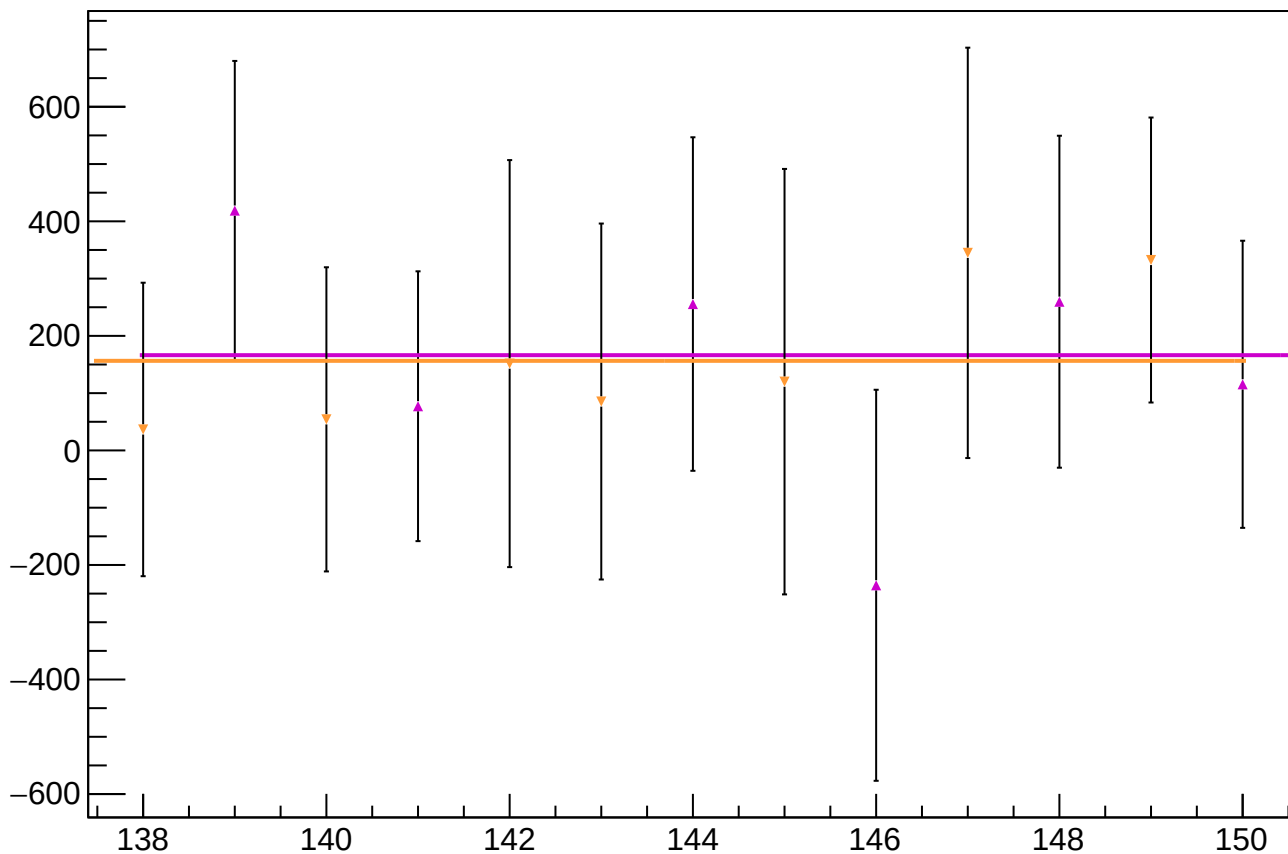
In: 22.619+/-0.007  $\chi^2/\text{NDF}$ :5611.1/5

Out: 22.928+/-0.007  $\chi^2/\text{NDF}$ :4538.1/6

All: 22.772+/-0.005  $\chi^2/\text{NDF}$ : 11057.5/12



asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 156.427+/-112.590  $\chi^2/\text{NDF}$ :1.2/6

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

Left In: 166.297+/-111.199  $\chi^2/\text{NDF}$ :2.7/5

Left: 161.423+/-79.117  $\chi^2/\text{NDF}$ : 3.9/12

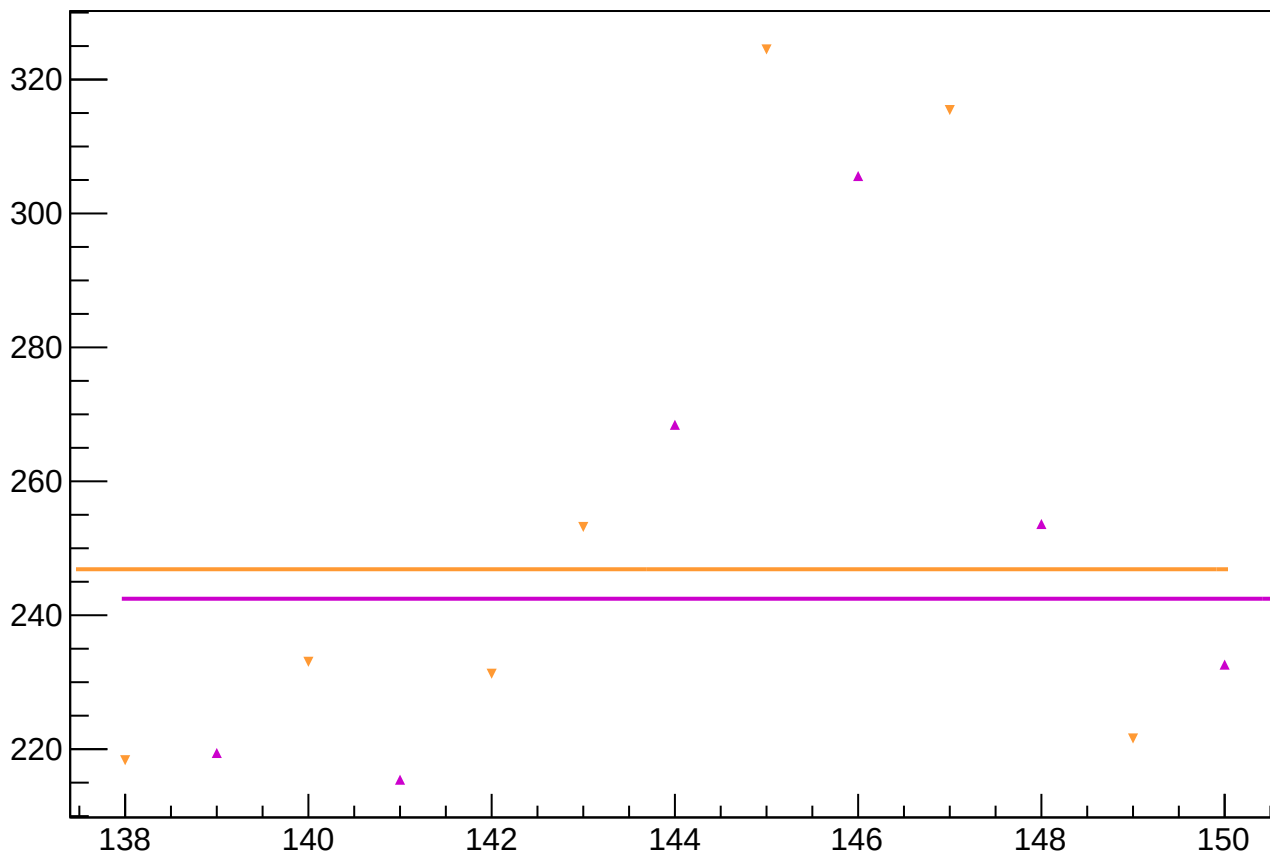
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 166.297+/-111.199  $\chi^2/\text{NDF}$ :2.7/5

Out: 156.427+/-112.590  $\chi^2/\text{NDF}$ :1.2/6

All: 161.423+/-79.117  $\chi^2/\text{NDF}$ : 3.9/12

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 246.868+/-0.080  $\chi^2/\text{NDF}$ :216155.2/6

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

Left In: 242.464+/-0.079  $\chi^2/\text{NDF}$ :132227.5/5

Left: 244.639+/-0.056  $\chi^2/\text{NDF}$ : 349931.3/12

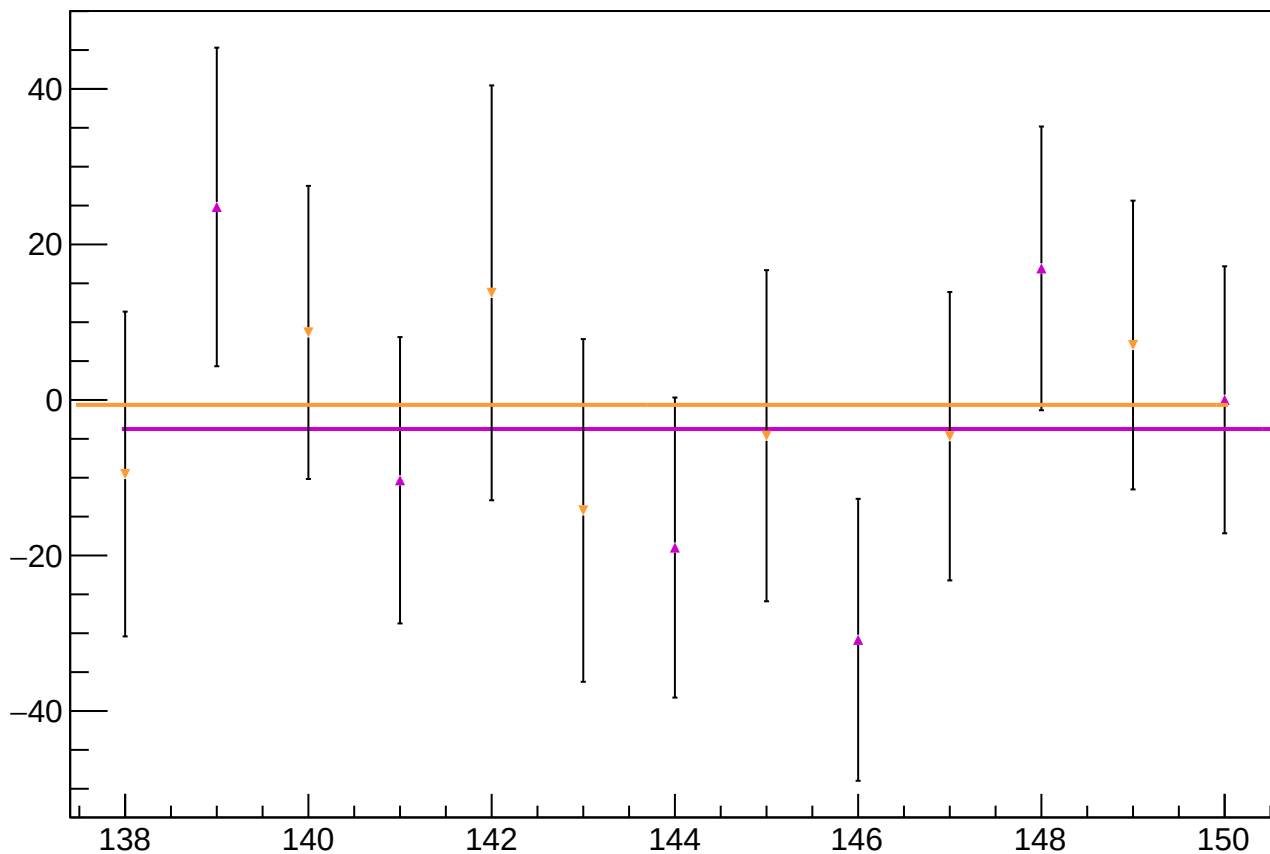
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 242.464+/-0.079  $\chi^2/\text{NDF}$ :132227.5/5

Out: 246.868+/-0.080  $\chi^2/\text{NDF}$ :216155.2/6

All: 244.639+/-0.056  $\chi^2/\text{NDF}$ : 349931.3/12

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -0.632+/-7.765  $\chi^2/\text{NDF}$ : 1.4/6

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

Left In: -3.734+/-7.568  $\chi^2/\text{NDF}$ : 6.3/5

Left: -2.223+/-5.420  $\chi^2/\text{NDF}$ : 7.7/12

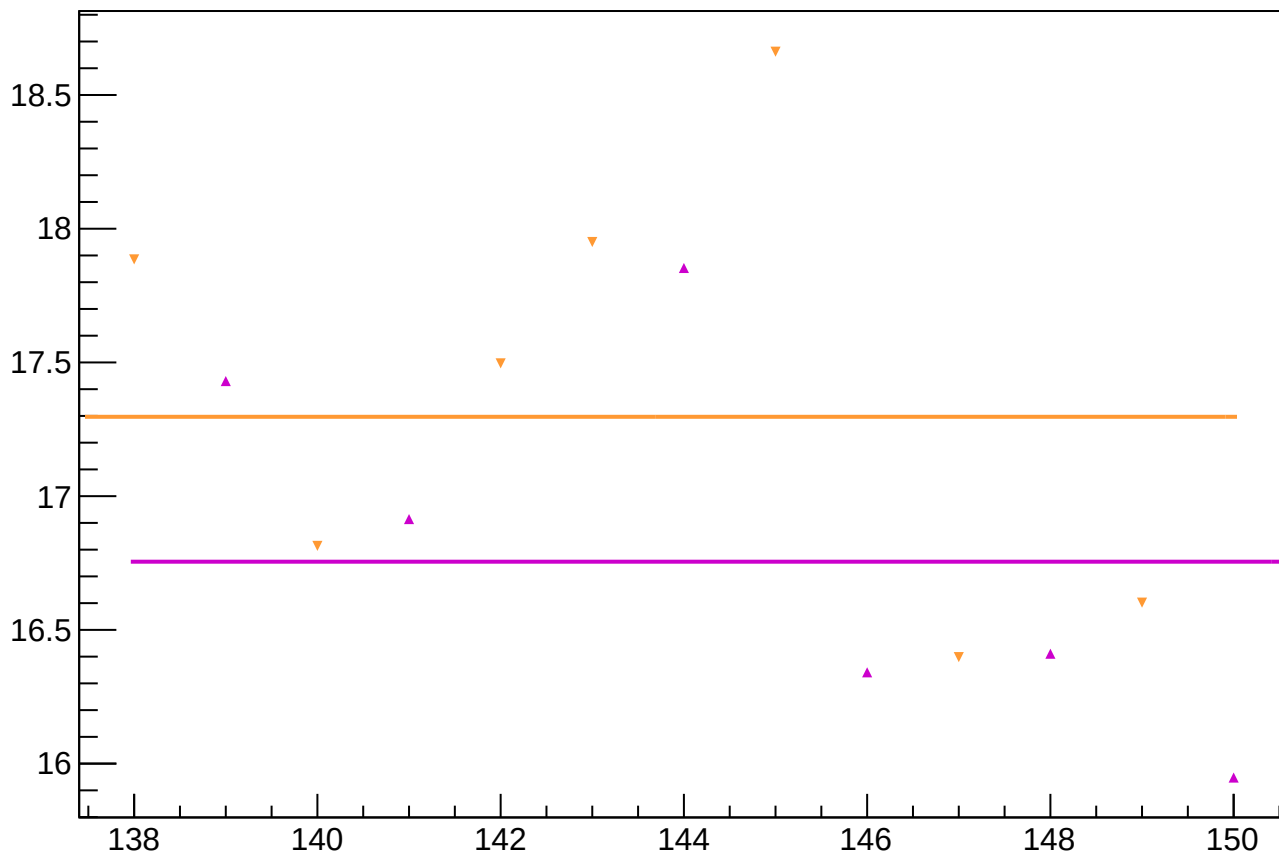
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3.734+/-7.568  $\chi^2/\text{NDF}$ : 6.3/5

Out: -0.632+/-7.765  $\chi^2/\text{NDF}$ : 1.4/6

All: -2.223+/-5.420  $\chi^2/\text{NDF}$ : 7.7/12

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 17.297+/-0.005  $\chi^2/\text{NDF}$ :20488.9/6

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

Left In: 16.755+/-0.005  $\chi^2/\text{NDF}$ :14976.2/5

Left: 17.019+/-0.004  $\chi^2/\text{NDF}$ : 40458.5/12

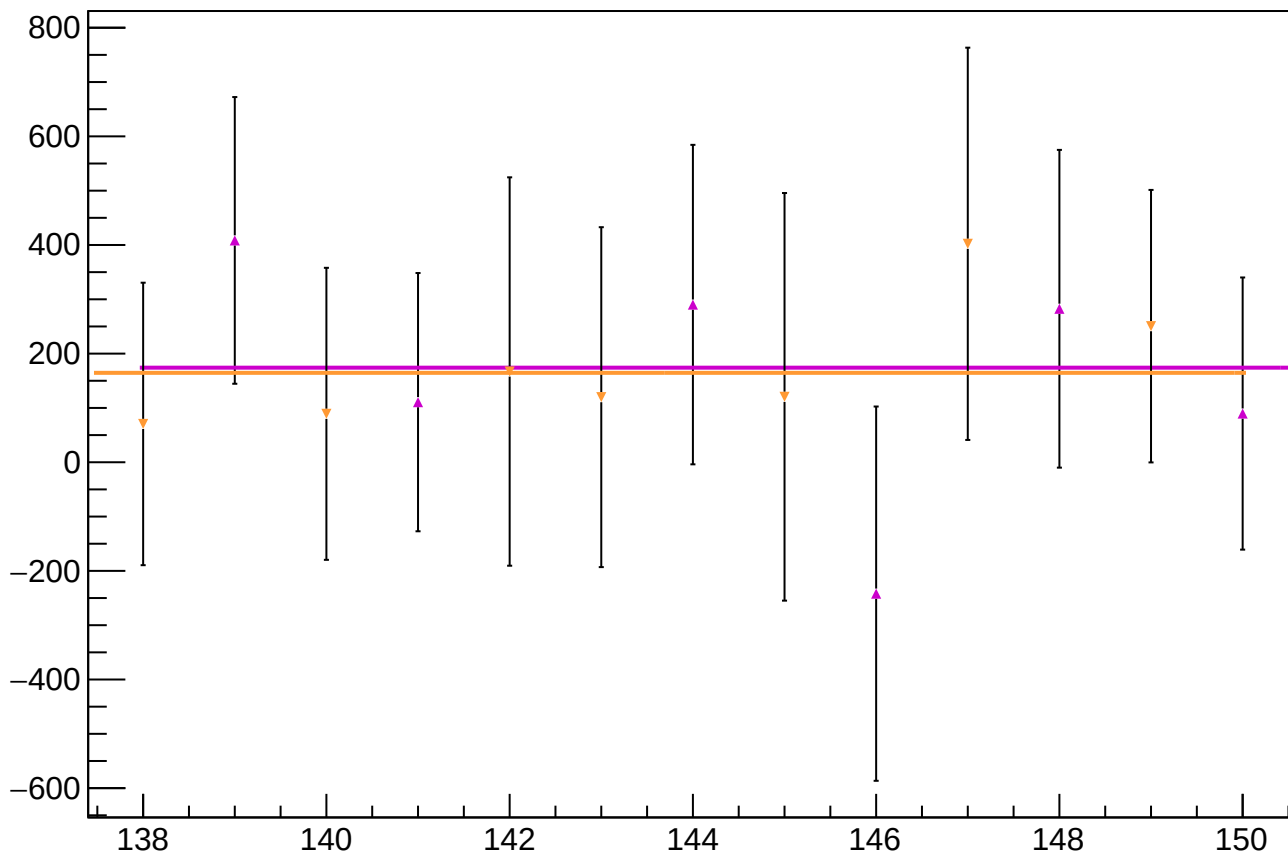
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 16.755+/-0.005  $\chi^2/\text{NDF}$ :14976.2/5

Out: 17.297+/-0.005  $\chi^2/\text{NDF}$ :20488.9/6

All: 17.019+/-0.004  $\chi^2/\text{NDF}$ : 40458.5/12

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 164.612+/-113.719  $\chi^2/\text{NDF}$ :0.8/6

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

Left In: 174.129+/-112.045  $\chi^2/\text{NDF}$ :2.7/5

Left: 169.441+/-79.813  $\chi^2/\text{NDF}$ : 3.5/12

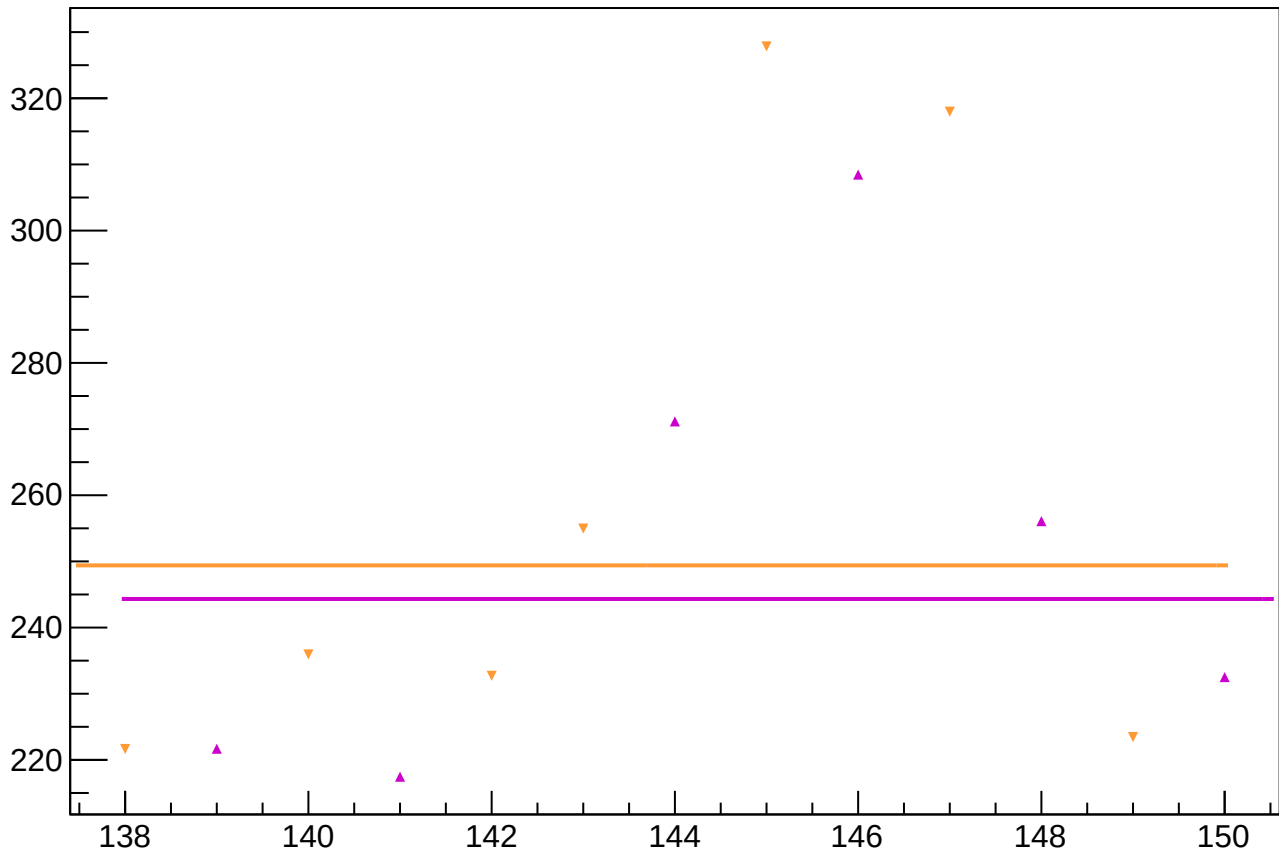
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 174.129+/-112.045  $\chi^2/\text{NDF}$ :2.7/5

Out: 164.612+/-113.719  $\chi^2/\text{NDF}$ :0.8/6

All: 169.441+/-79.813  $\chi^2/\text{NDF}$ : 3.5/12

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 249.400+/-0.080  $\chi^2/\text{NDF}$ :213700.0/6

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

Left In: 244.321+/-0.079  $\chi^2/\text{NDF}$ :133888.1/5

Left: 246.823+/-0.056  $\chi^2/\text{NDF}$ : 349612.2/12

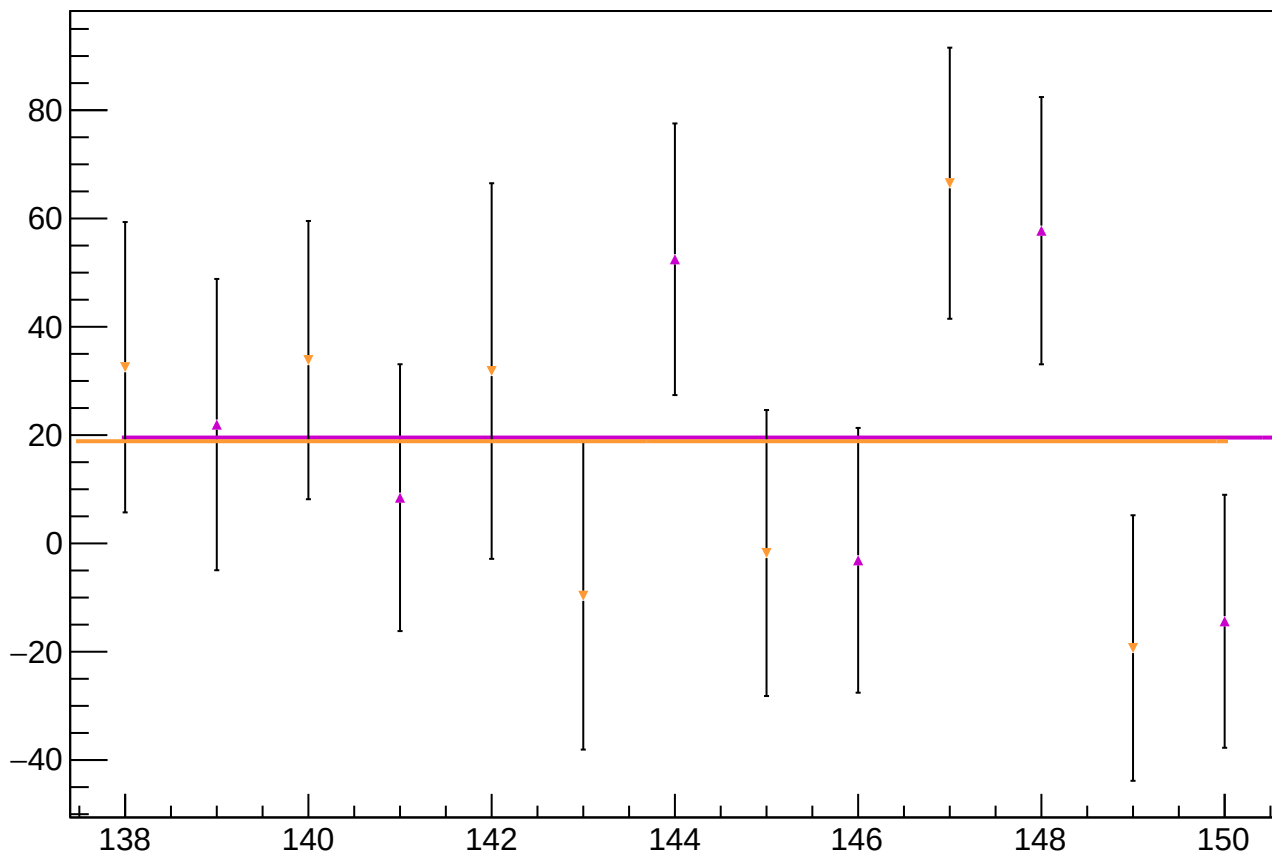
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 244.321+/-0.079  $\chi^2/\text{NDF}$ :133888.1/5

Out: 249.400+/-0.080  $\chi^2/\text{NDF}$ :213700.0/6

All: 246.823+/-0.056  $\chi^2/\text{NDF}$ : 349612.2/12

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 18.869 $\pm$ 10.168  $\chi^2$ /NDF:8.4/6

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

Left In: 19.547 $\pm$ 10.118  $\chi^2$ /NDF:7.3/5

Left: 19.210 $\pm$ 7.172  $\chi^2$ /NDF: 15.7/12

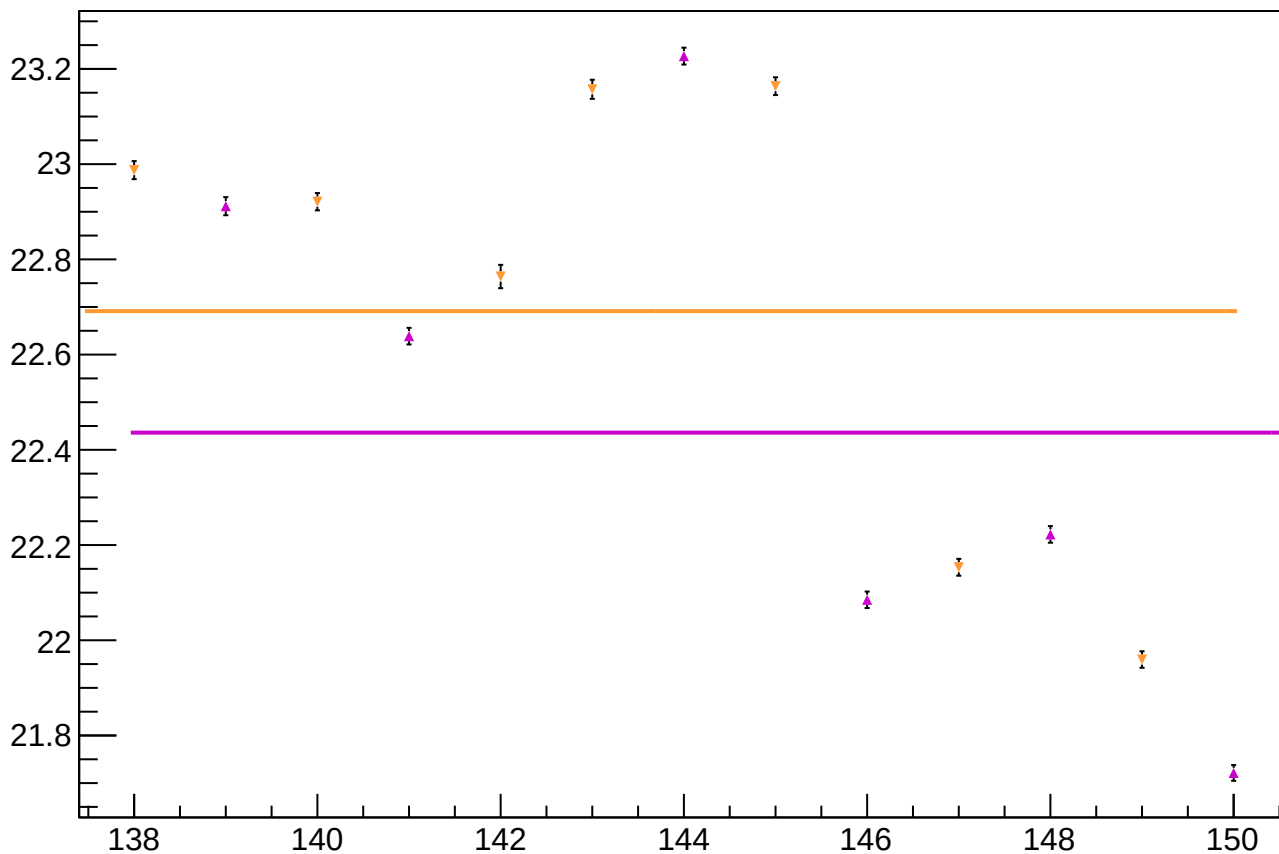
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 19.547 $\pm$ 10.118  $\chi^2$ /NDF:7.3/5

Out: 18.869 $\pm$ 10.168  $\chi^2$ /NDF:8.4/6

All: 19.210 $\pm$ 7.172  $\chi^2$ /NDF: 15.7/12

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 22.691+/-0.007  $\chi^2/\text{NDF}$ : 4297.1/6

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

Left In: 22.436+/-0.007  $\chi^2/\text{NDF}$ : 5184.7/5

Left: 22.563+/-0.005  $\chi^2/\text{NDF}$ : 10114.8/12

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

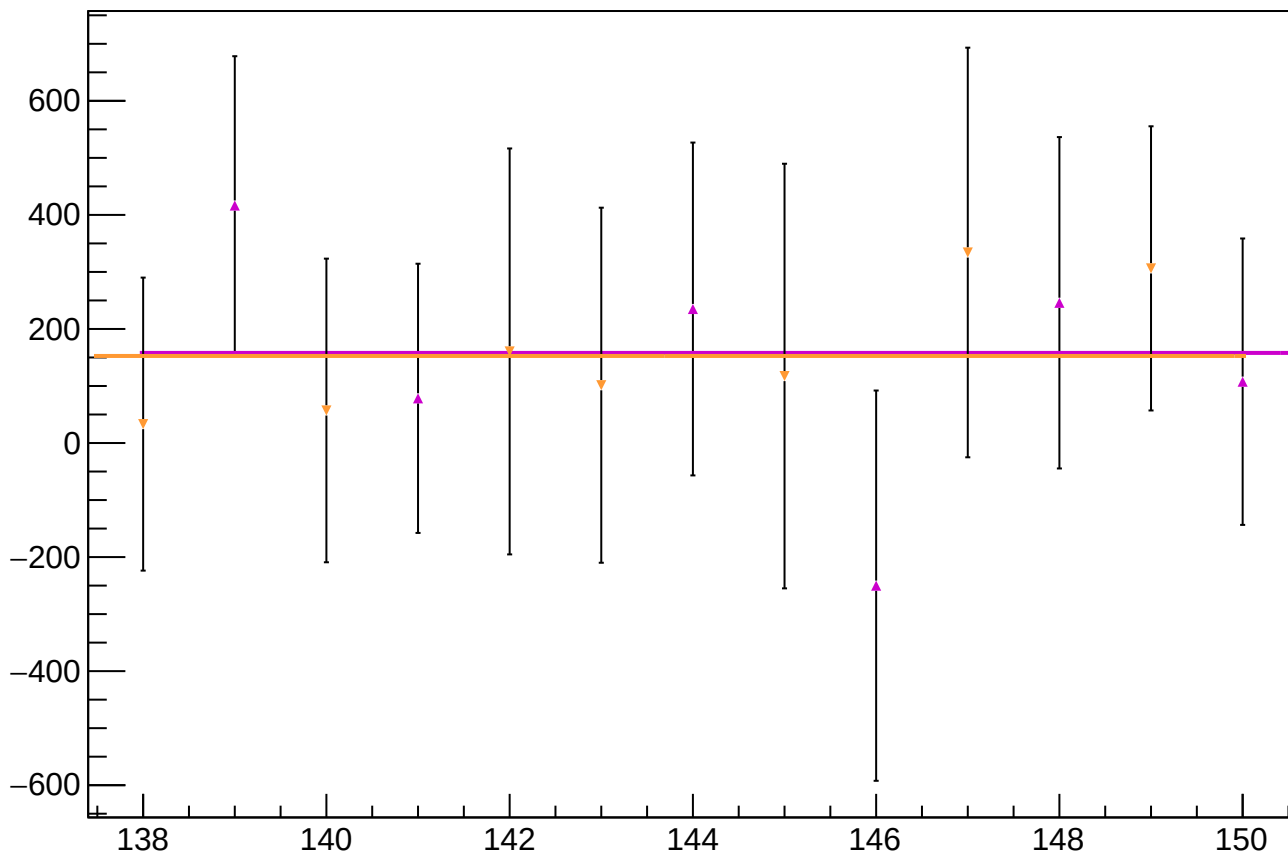
In: 22.436+/-0.007  $\chi^2/\text{NDF}$ : 5184.7/5

Out: 22.691+/-0.007  $\chi^2/\text{NDF}$ : 4297.1/6

All: 22.563+/-0.005  $\chi^2/\text{NDF}$ : 10114.8/12



asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 152.668+/-112.829  $\chi^2/\text{NDF}$ :1.0/6

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

Left In: 158.005+/-111.438  $\chi^2/\text{NDF}$ :2.7/5

Left: 155.370+/-79.286  $\chi^2/\text{NDF}$ : 3.7/12

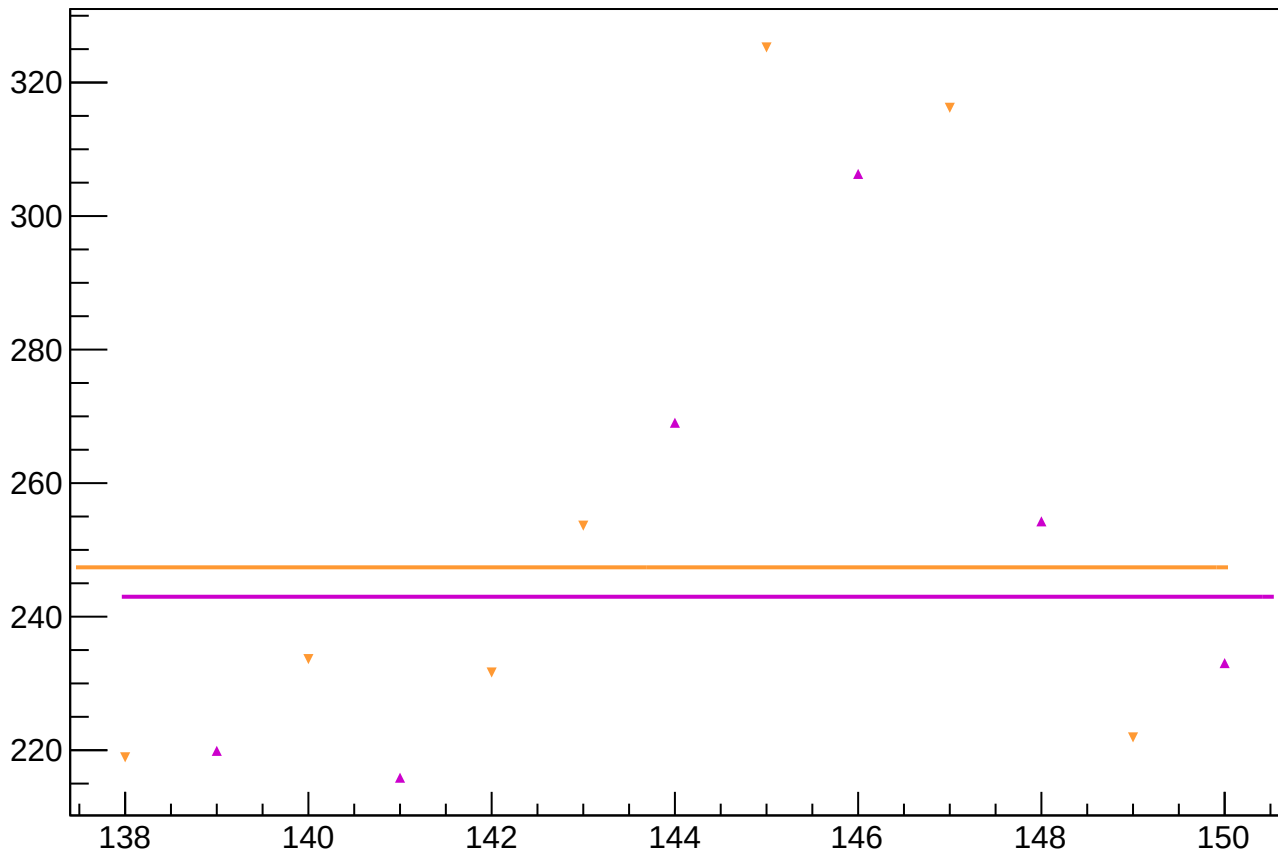
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 158.005+/-111.438  $\chi^2/\text{NDF}$ :2.7/5

Out: 152.668+/-112.829  $\chi^2/\text{NDF}$ :1.0/6

All: 155.370+/-79.286  $\chi^2/\text{NDF}$ : 3.7/12

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 247.390+/-0.080  $\chi^2/\text{NDF}$ :216435.7/6

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

Left In: 242.985+/-0.079  $\chi^2/\text{NDF}$ :132516.8/5

Left: 245.160+/-0.056  $\chi^2/\text{NDF}$ : 350495.5/12

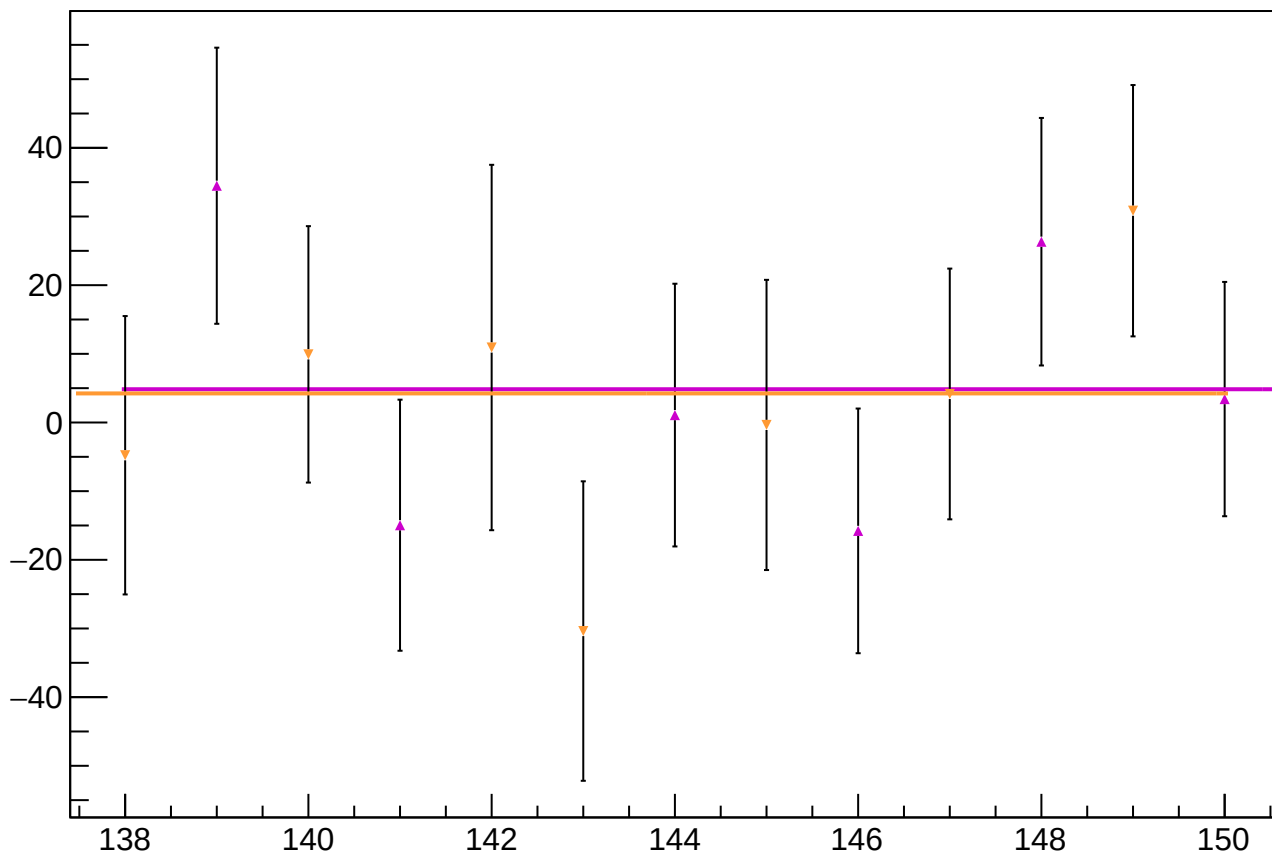
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 242.985+/-0.079  $\chi^2/\text{NDF}$ :132516.8/5

Out: 247.390+/-0.080  $\chi^2/\text{NDF}$ :216435.7/6

All: 245.160+/-0.056  $\chi^2/\text{NDF}$ : 350495.5/12

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 4.234+/-7.661  $\chi^2/\text{NDF}$ :5.0/6

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

Left In: 4.844+/-7.483  $\chi^2/\text{NDF}$ :6.2/5

Left: 4.546+/-5.353  $\chi^2/\text{NDF}$ : 11.2/12

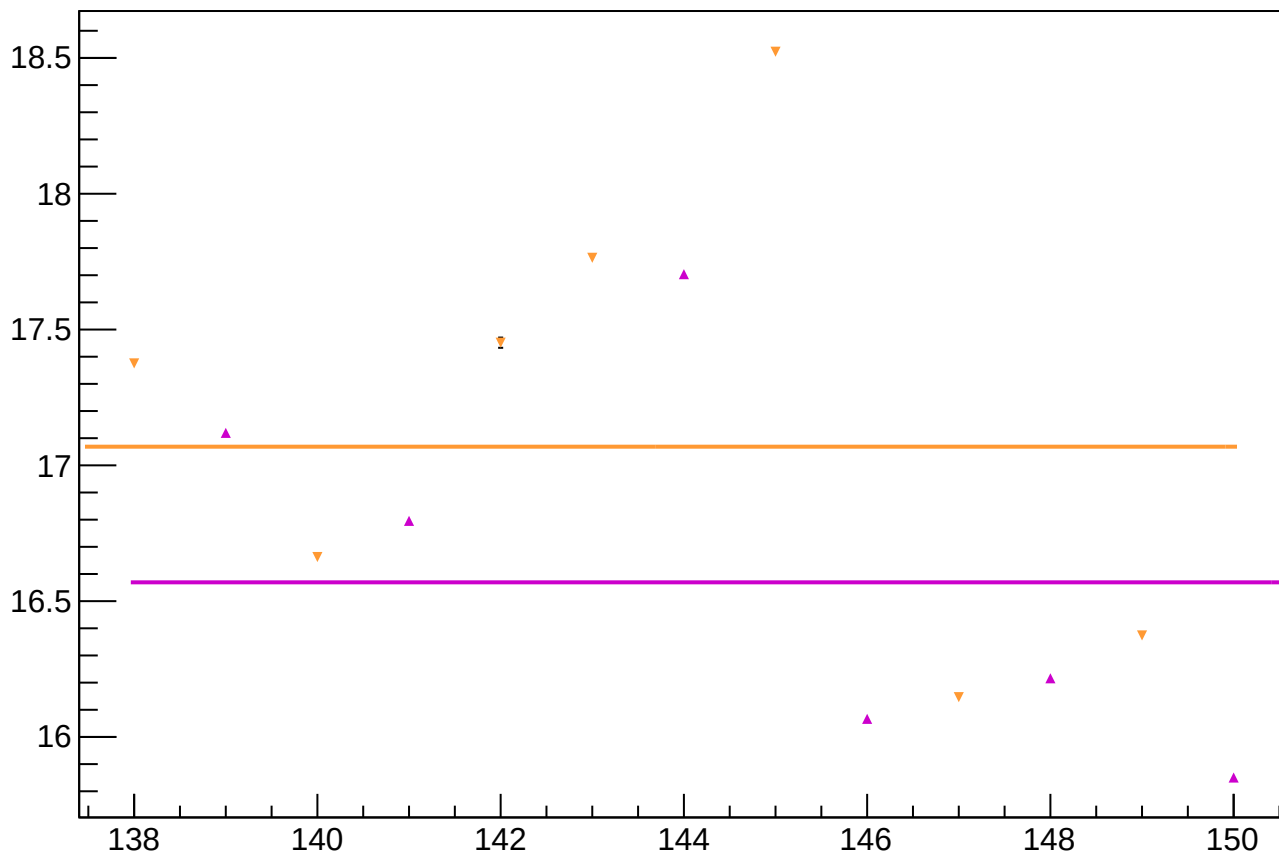
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4.844+/-7.483  $\chi^2/\text{NDF}$ :6.2/5

Out: 4.234+/-7.661  $\chi^2/\text{NDF}$ :5.0/6

All: 4.546+/-5.353  $\chi^2/\text{NDF}$ : 11.2/12

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 17.069+/-0.005  $\chi^2/\text{NDF}$ :21307.6/6

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

Left In: 16.569+/-0.005  $\chi^2/\text{NDF}$ :14746.2/5

Left: 16.813+/-0.004  $\chi^2/\text{NDF}$ : 40404.0/12

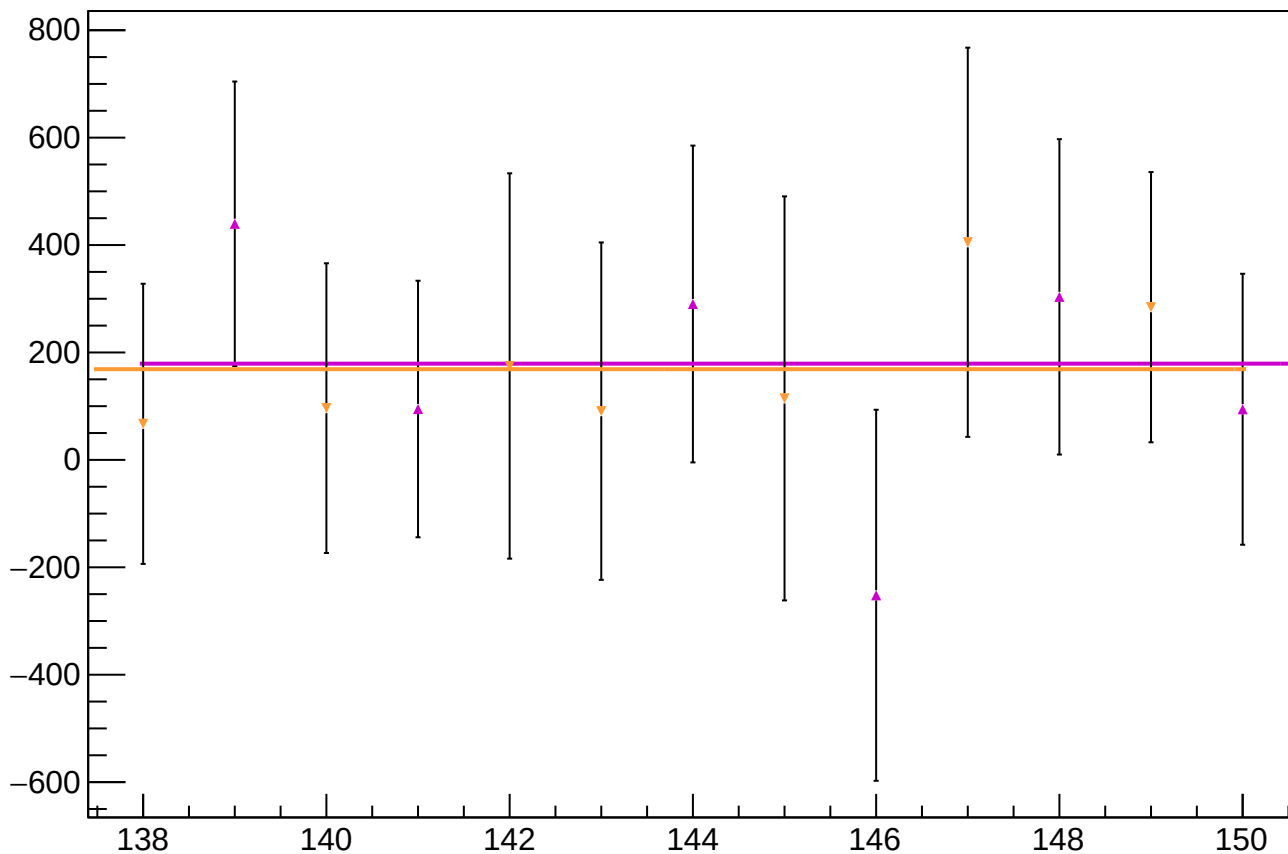
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 16.569+/-0.005  $\chi^2/\text{NDF}$ :14746.2/5

Out: 17.069+/-0.005  $\chi^2/\text{NDF}$ :21307.6/6

All: 16.813+/-0.004  $\chi^2/\text{NDF}$ : 40404.0/12

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 168.876+/-114.081  $\chi^2/\text{NDF}$ : 0.9/6

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

Left In: 179.178+/-112.526  $\chi^2/\text{NDF}$ : 3.1/5

Left: 174.097+/-80.112  $\chi^2/\text{NDF}$ : 4.0/12

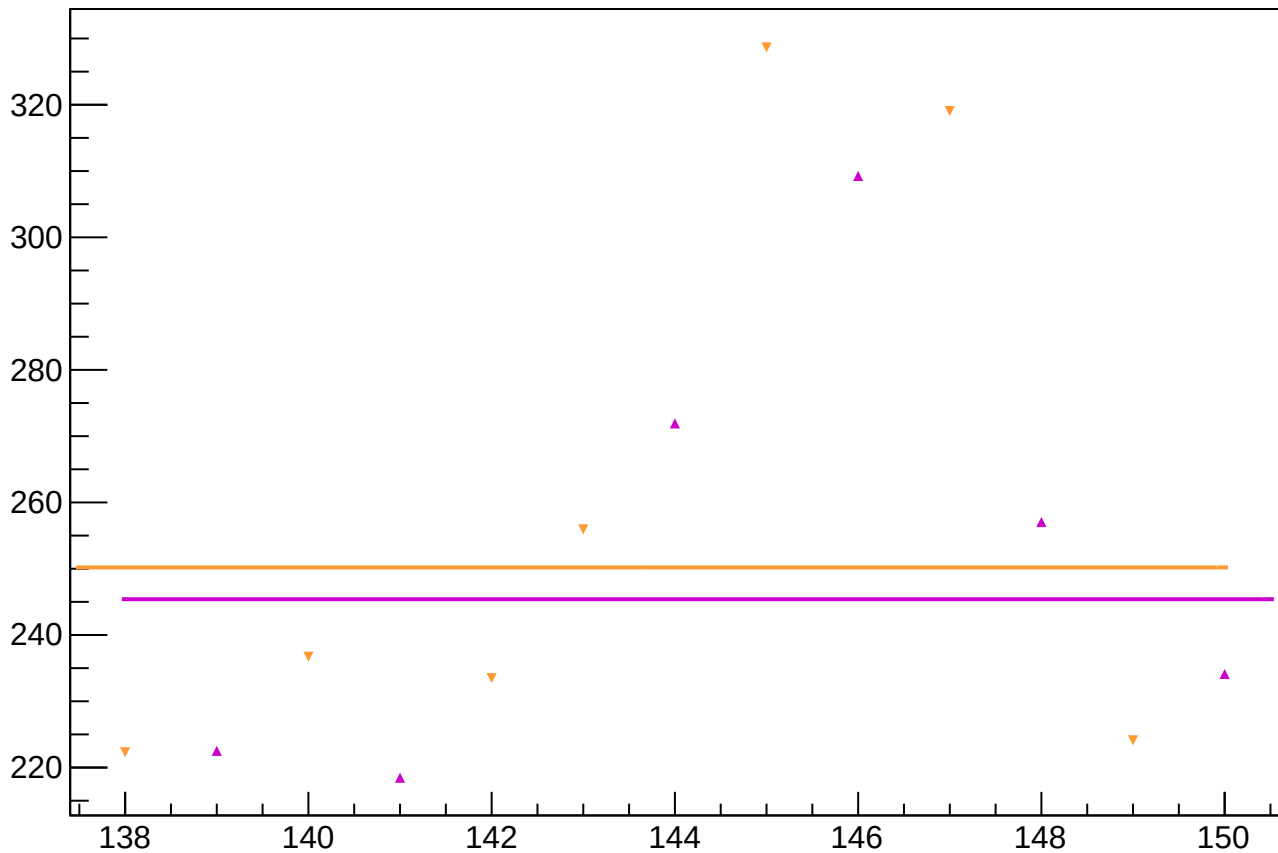
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 179.178+/-112.526  $\chi^2/\text{NDF}$ : 3.1/5

Out: 168.876+/-114.081  $\chi^2/\text{NDF}$ : 0.9/6

All: 174.097+/-80.112  $\chi^2/\text{NDF}$ : 4.0/12

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 250.195+/-0.081  $\chi^2/\text{NDF}$ :213610.8/6

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

Left In: 245.401+/-0.080  $\chi^2/\text{NDF}$ :132039.0/5

Left: 247.765+/-0.057  $\chi^2/\text{NDF}$ : 347439.6/12

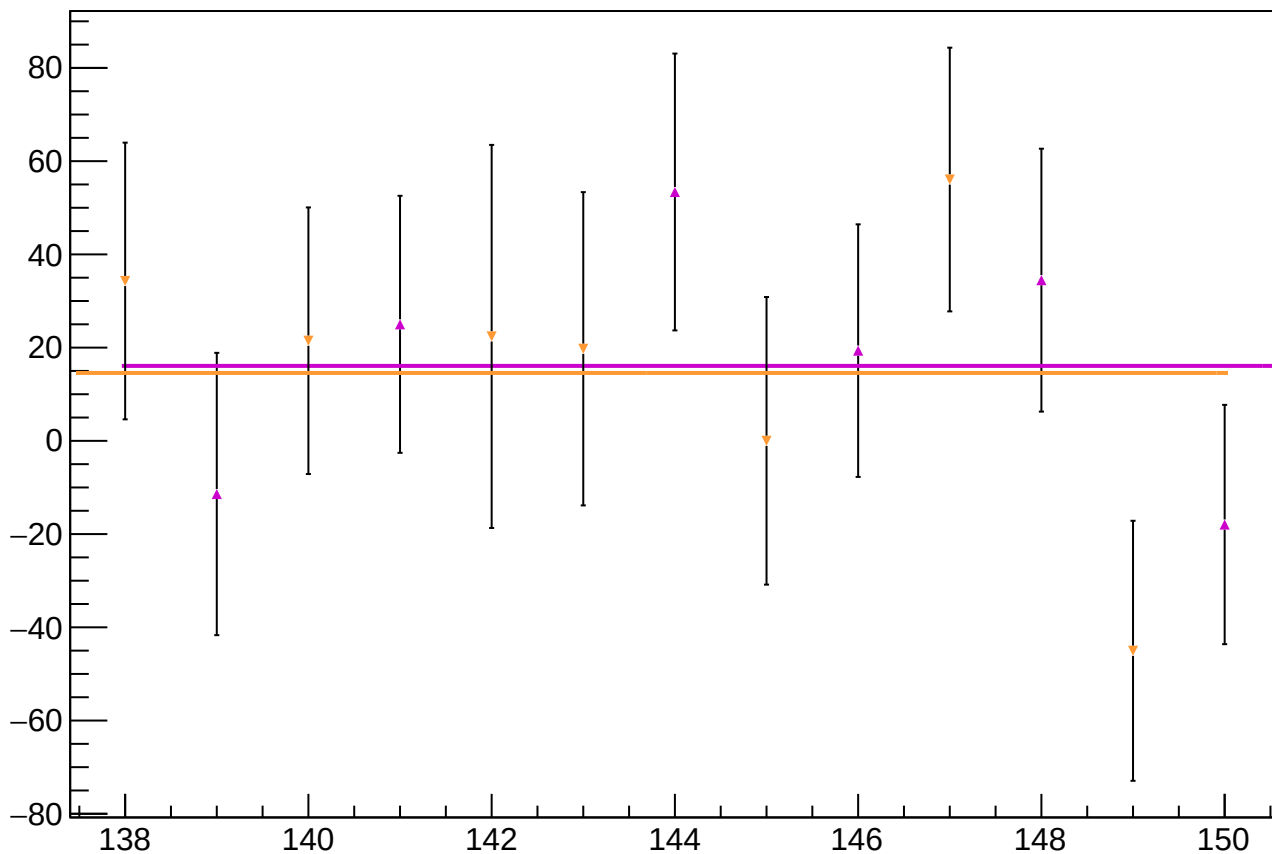
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 245.401+/-0.080  $\chi^2/\text{NDF}$ :132039.0/5

Out: 250.195+/-0.081  $\chi^2/\text{NDF}$ :213610.8/6

All: 247.765+/-0.057  $\chi^2/\text{NDF}$ : 347439.6/12

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 14.568+/-11.607  $\chi^2/\text{NDF}$ : 7.5/6

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

Left In: 16.083+/-11.412  $\chi^2/\text{NDF}$ : 4.7/5

Left: 15.338+/-8.138  $\chi^2/\text{NDF}$ : 12.2/12

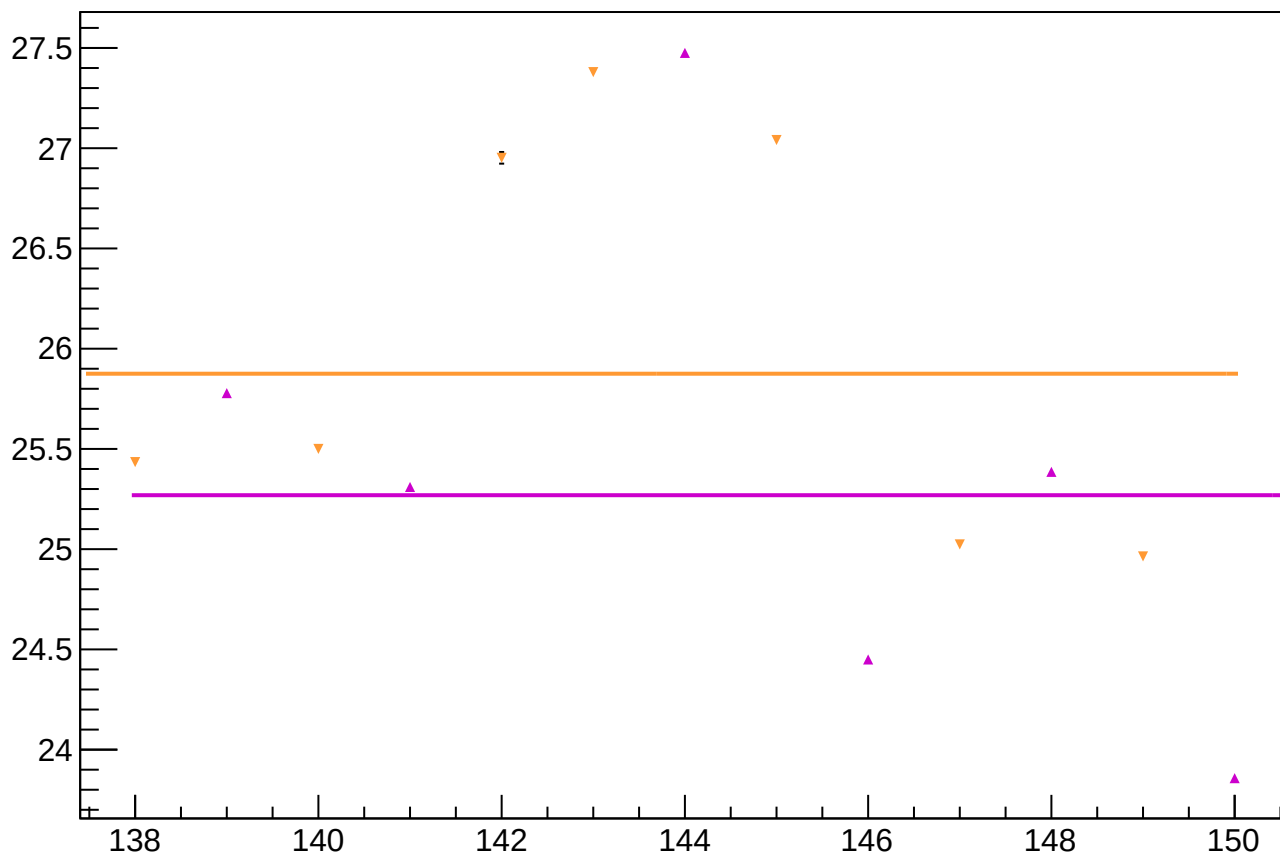
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 16.083+/-11.412  $\chi^2/\text{NDF}$ : 4.7/5

Out: 14.568+/-11.607  $\chi^2/\text{NDF}$ : 7.5/6

All: 15.338+/-8.138  $\chi^2/\text{NDF}$ : 12.2/12

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 25.875+/-0.008  $\chi^2/\text{NDF}$ :12971.8/6

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

Left In: 25.269+/-0.008  $\chi^2/\text{NDF}$ :19520.3/5

Left: 25.567+/-0.006  $\chi^2/\text{NDF}$ : 35264.1/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

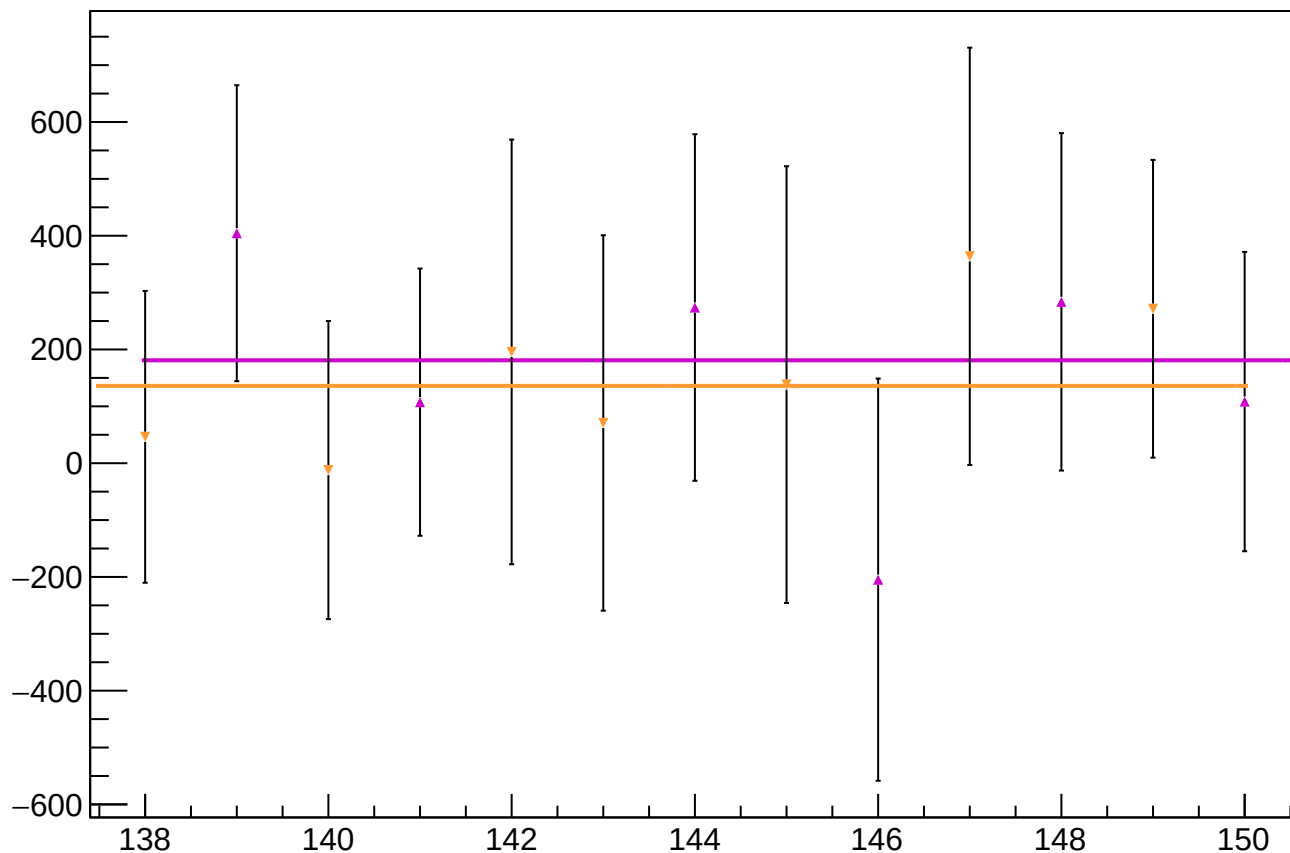
In: 25.269+/-0.008  $\chi^2/\text{NDF}$ :19520.3/5

Out: 25.875+/-0.008  $\chi^2/\text{NDF}$ :12971.8/6

All: 25.567+/-0.006  $\chi^2/\text{NDF}$ : 35264.1/12



asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 135.992+/-115.550  $\chi^2/\text{NDF}$ :1.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 180.977+/-113.637  $\chi^2/\text{NDF}$ :2.3/5

Left: 158.860+/-81.022  $\chi^2/\text{NDF}$ : 3.6/12

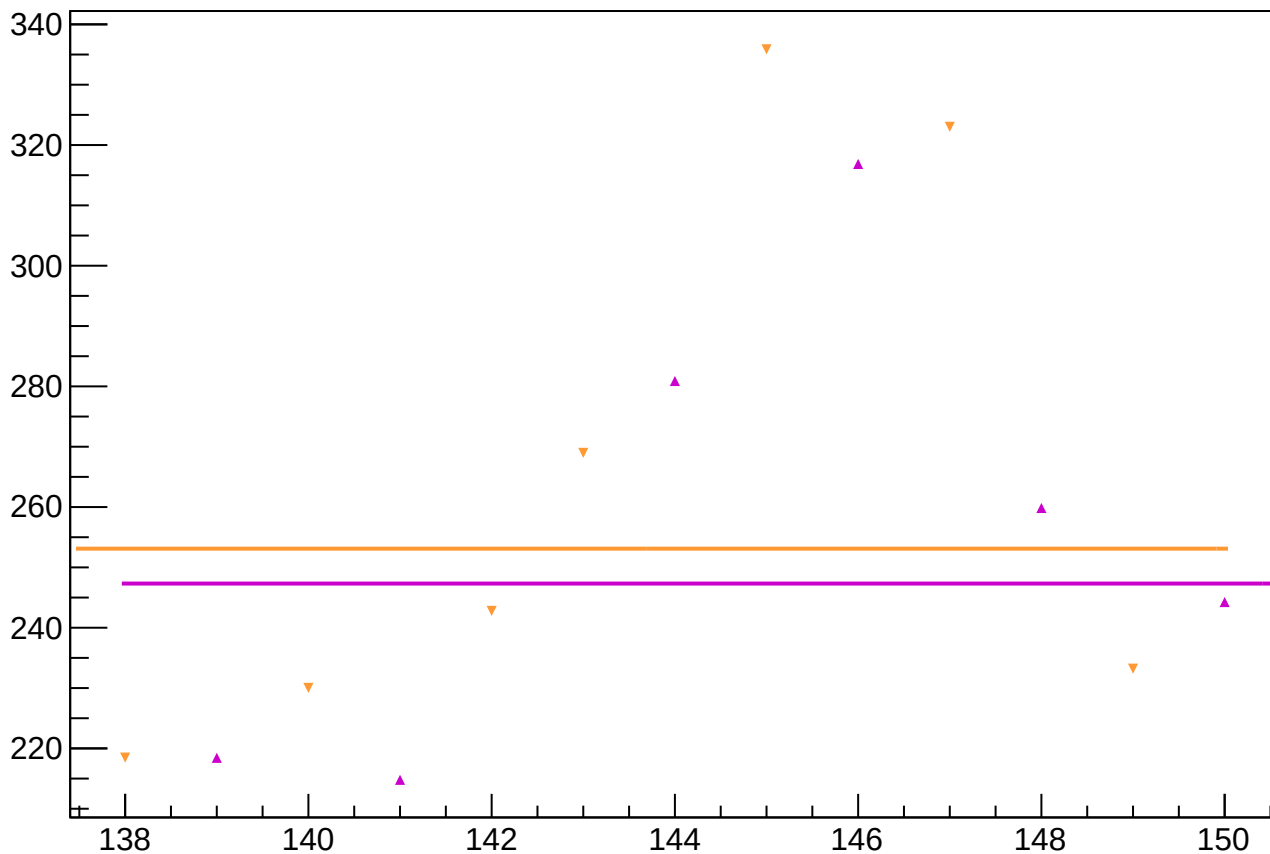
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 180.977+/-113.637  $\chi^2/\text{NDF}$ :2.3/5

Out: 135.992+/-115.550  $\chi^2/\text{NDF}$ :1.2/6

All: 158.860+/-81.022  $\chi^2/\text{NDF}$ : 3.6/12

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 253.105+/-0.082  $\chi^2/\text{NDF}$ :235164.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 247.321+/-0.080  $\chi^2/\text{NDF}$ :168400.5/5

Left: 250.165+/-0.057  $\chi^2/\text{NDF}$ : 406111.8/12

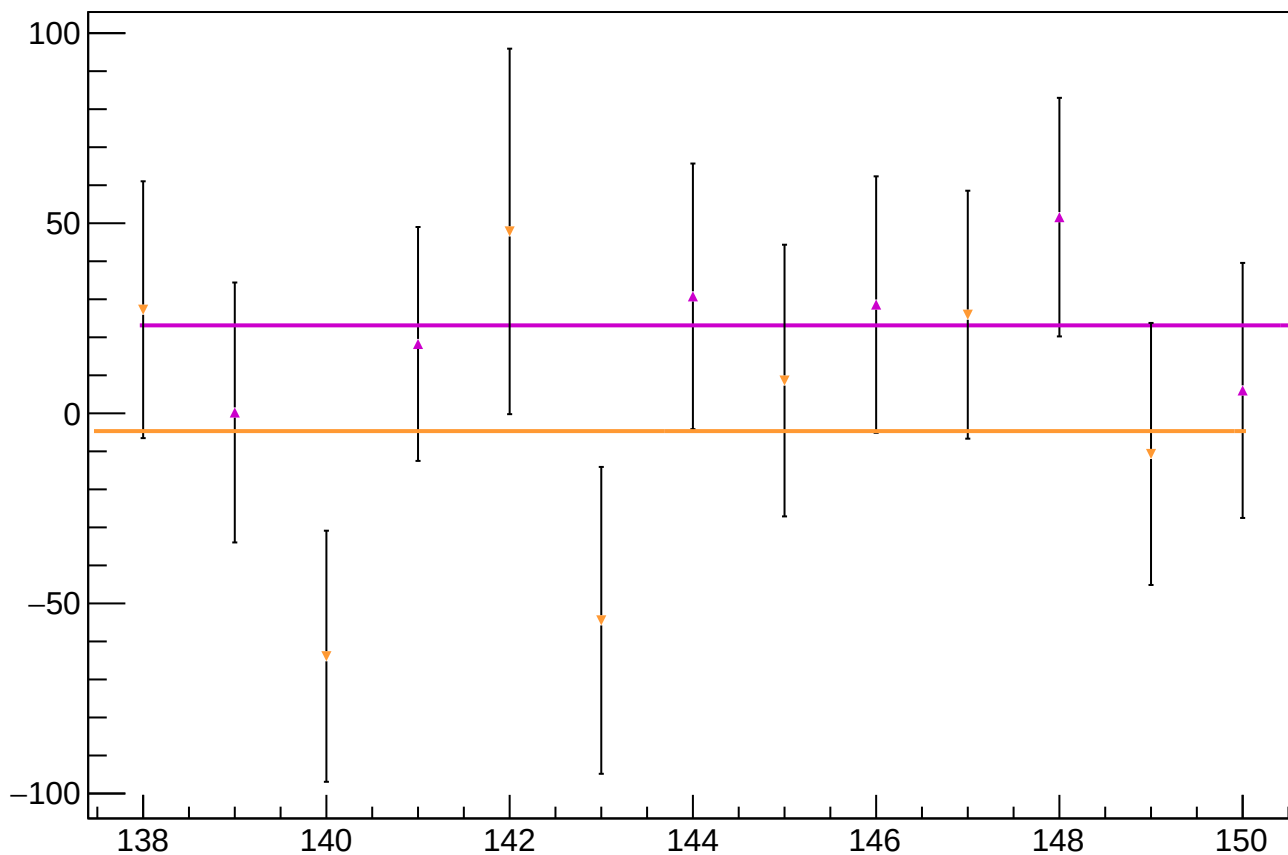
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 247.321+/-0.080  $\chi^2/\text{NDF}$ :168400.5/5

Out: 253.105+/-0.082  $\chi^2/\text{NDF}$ :235164.0/6

All: 250.165+/-0.057  $\chi^2/\text{NDF}$ : 406111.8/12

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -4.674+/-13.601  $\chi^2/\text{NDF}$ : 7.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 23.139+/-13.465  $\chi^2/\text{NDF}$ : 1.6/5

Left: 9.372+/-9.569  $\chi^2/\text{NDF}$ : 11.6/12

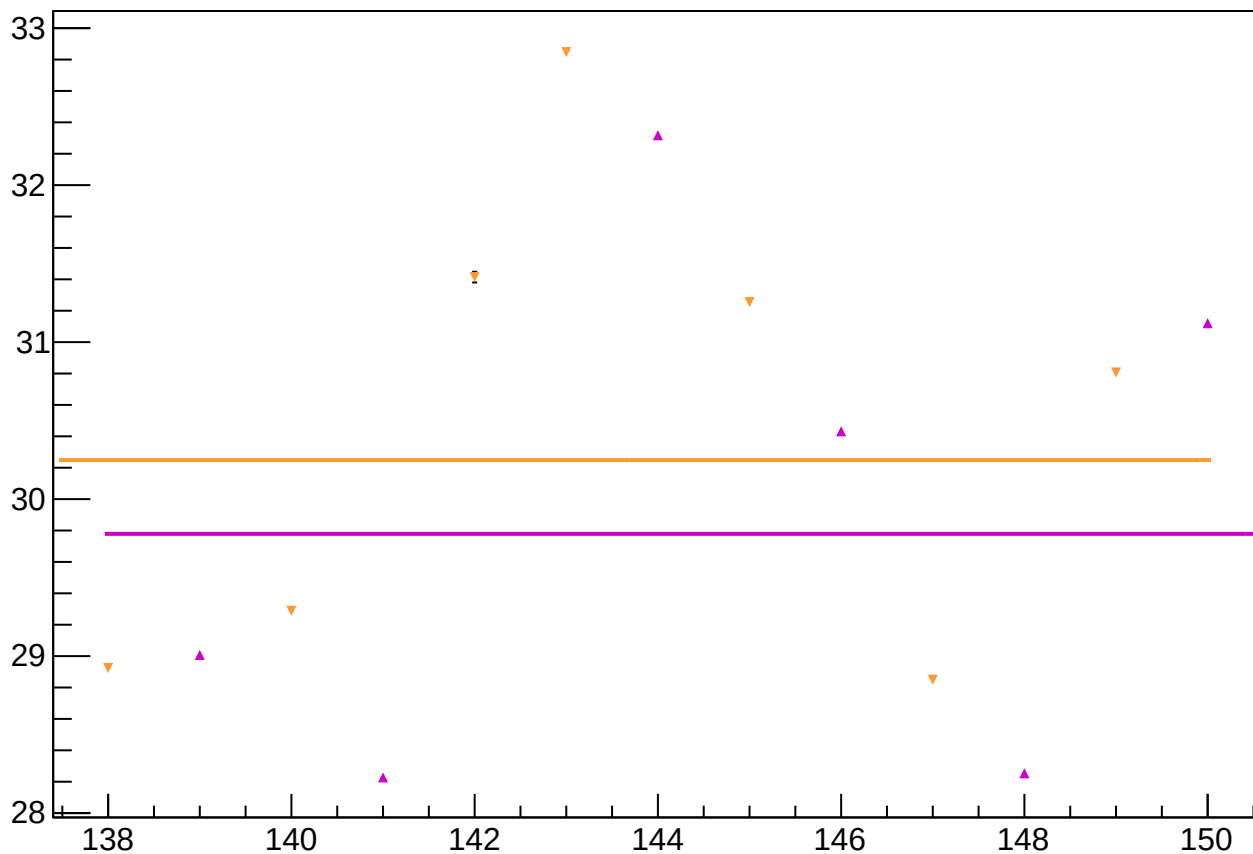
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 23.139+/-13.465  $\chi^2/\text{NDF}$ : 1.6/5

Out: -4.674+/-13.601  $\chi^2/\text{NDF}$ : 7.9/6

All: 9.372+/-9.569  $\chi^2/\text{NDF}$ : 11.6/12

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 30.249+/-0.010  $\chi^2/\text{NDF}$ :20021.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 29.779+/-0.010  $\chi^2/\text{NDF}$ :25348.1/5

Left: 30.011+/-0.007  $\chi^2/\text{NDF}$ : 46575.7/12

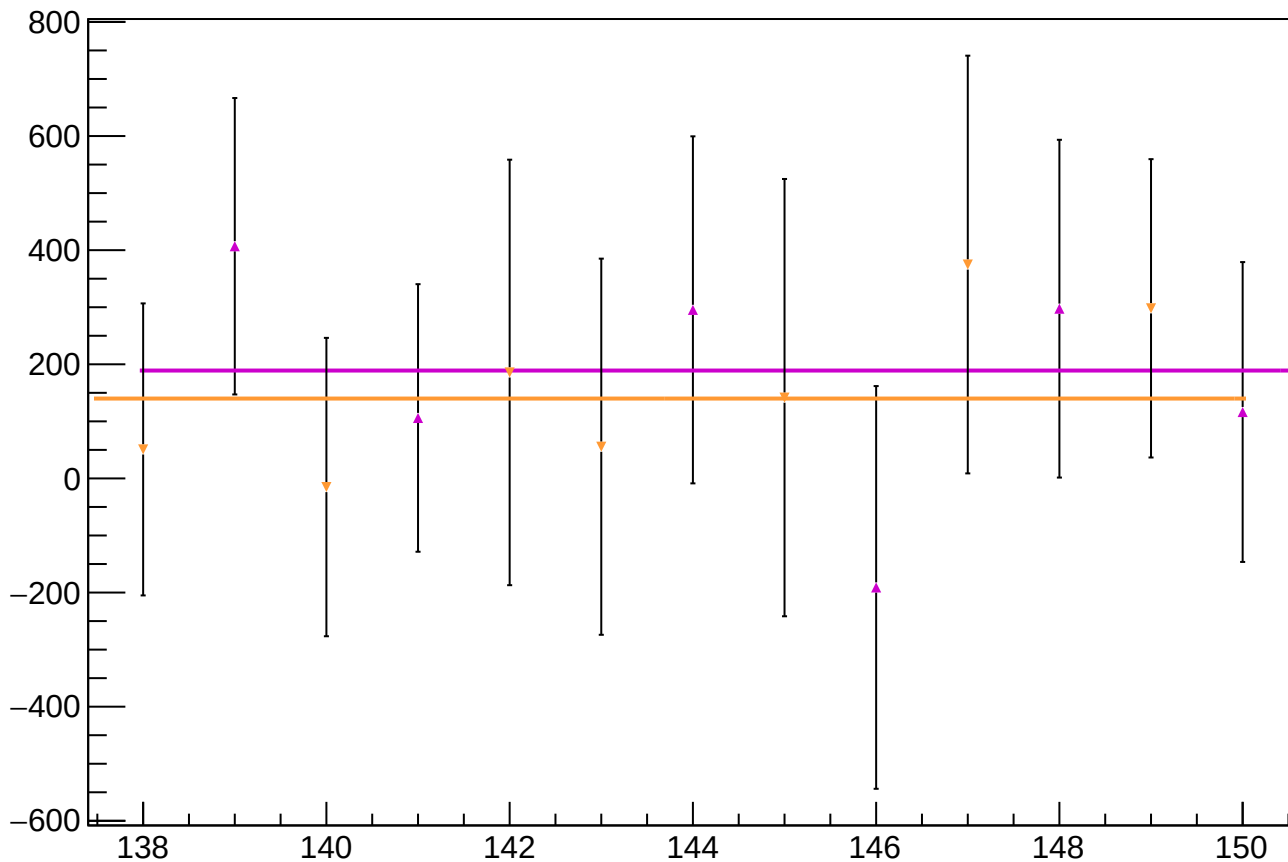
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 29.779+/-0.010  $\chi^2/\text{NDF}$ :25348.1/5

Out: 30.249+/-0.010  $\chi^2/\text{NDF}$ :20021.6/6

All: 30.011+/-0.007  $\chi^2/\text{NDF}$ : 46575.7/12

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 139.965+/-115.307  $\chi^2/\text{NDF}$ : 1.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 189.061+/-113.399  $\chi^2/\text{NDF}$ : 2.3/5

Left: 164.923+/-80.851  $\chi^2/\text{NDF}$ : 3.7/12

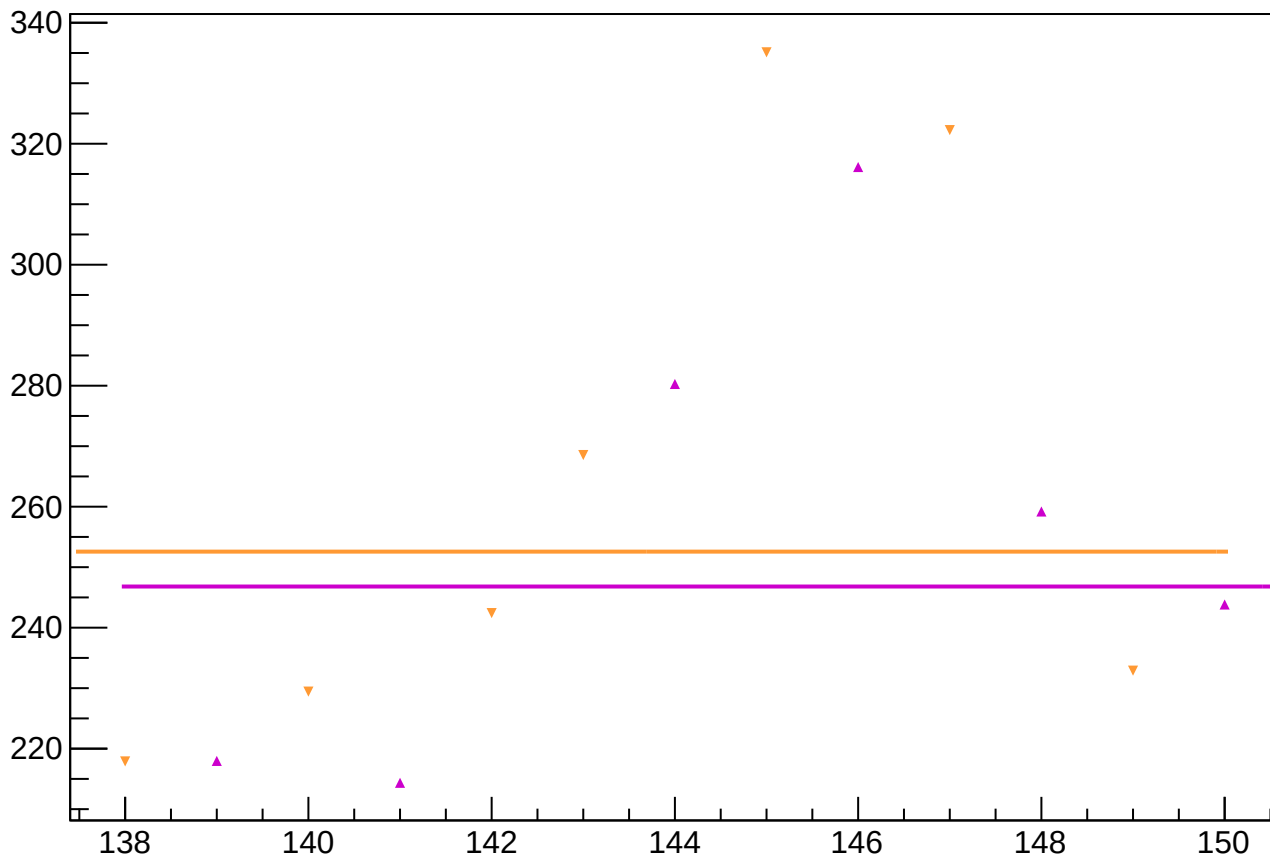
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 189.061+/-113.399  $\chi^2/\text{NDF}$ : 2.3/5

Out: 139.965+/-115.307  $\chi^2/\text{NDF}$ : 1.3/6

All: 164.923+/-80.851  $\chi^2/\text{NDF}$ : 3.7/12

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 252.572+/-0.082  $\chi^2/\text{NDF}$ :235214.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 246.803+/-0.080  $\chi^2/\text{NDF}$ :168202.9/5

Left: 249.639+/-0.057  $\chi^2/\text{NDF}$ : 405962.1/12

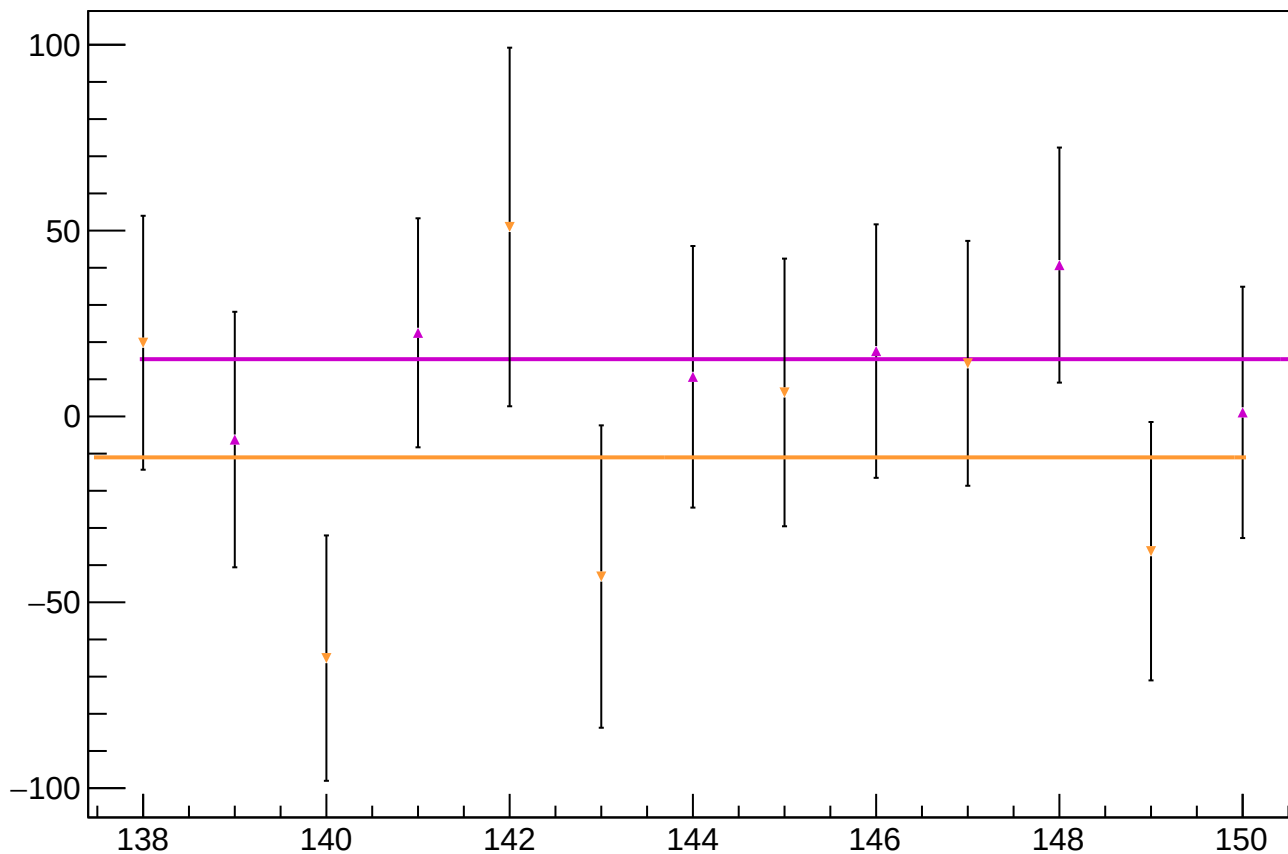
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 246.803+/-0.080  $\chi^2/\text{NDF}$ :168202.9/5

Out: 252.572+/-0.082  $\chi^2/\text{NDF}$ :235214.2/6

All: 249.639+/-0.057  $\chi^2/\text{NDF}$ : 405962.1/12

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -11.008+/-13.698  $\chi^2/\text{NDF}$ :7.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 15.409+/-13.555  $\chi^2/\text{NDF}$ :1.3/5

Left: 2.339+/-9.635  $\chi^2/\text{NDF}$ : 10.3/12

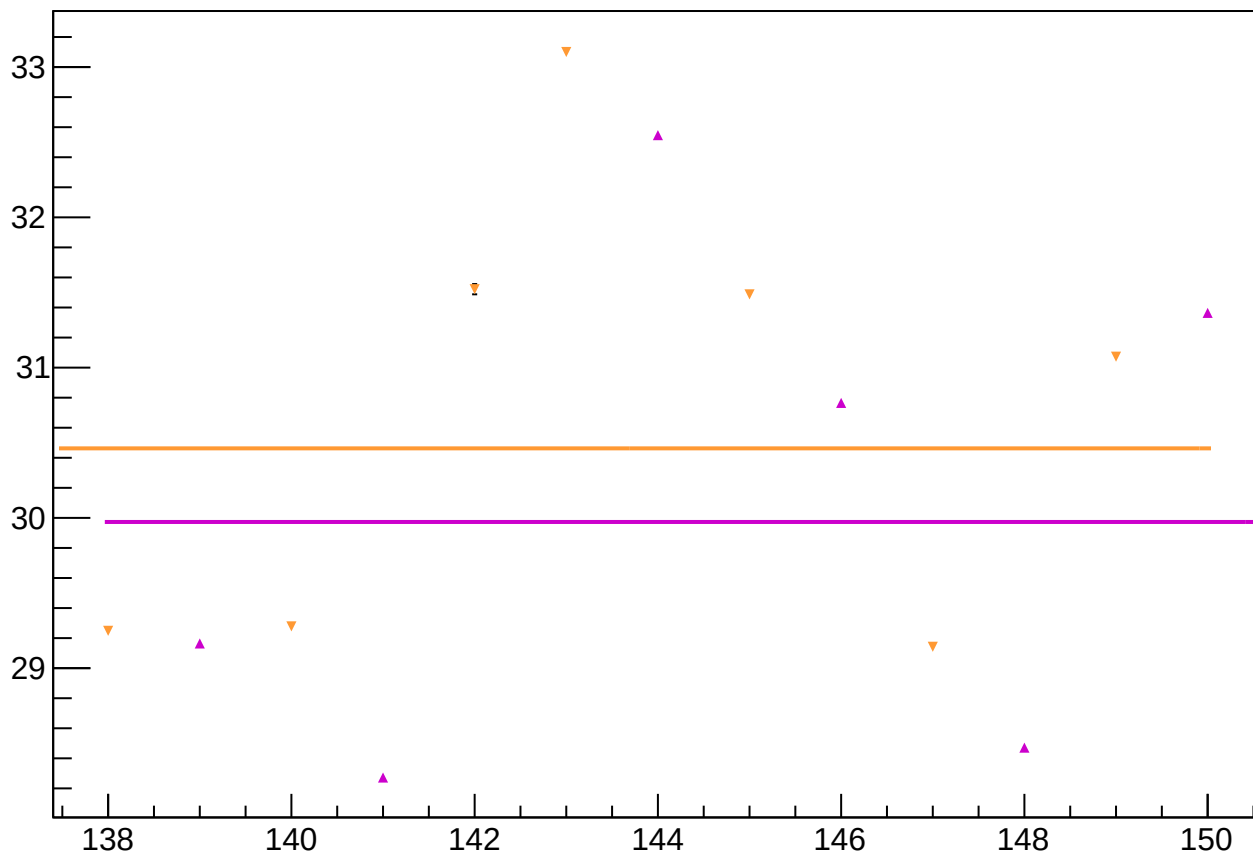
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 15.409+/-13.555  $\chi^2/\text{NDF}$ :1.3/5

Out: -11.008+/-13.698  $\chi^2/\text{NDF}$ :7.1/6

All: 2.339+/-9.635  $\chi^2/\text{NDF}$ : 10.3/12

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 30.463+/-0.010  $\chi^2/\text{NDF}$ :19927.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 29.973+/-0.010  $\chi^2/\text{NDF}$ :26880.7/5

Left: 30.215+/-0.007  $\chi^2/\text{NDF}$ : 48100.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

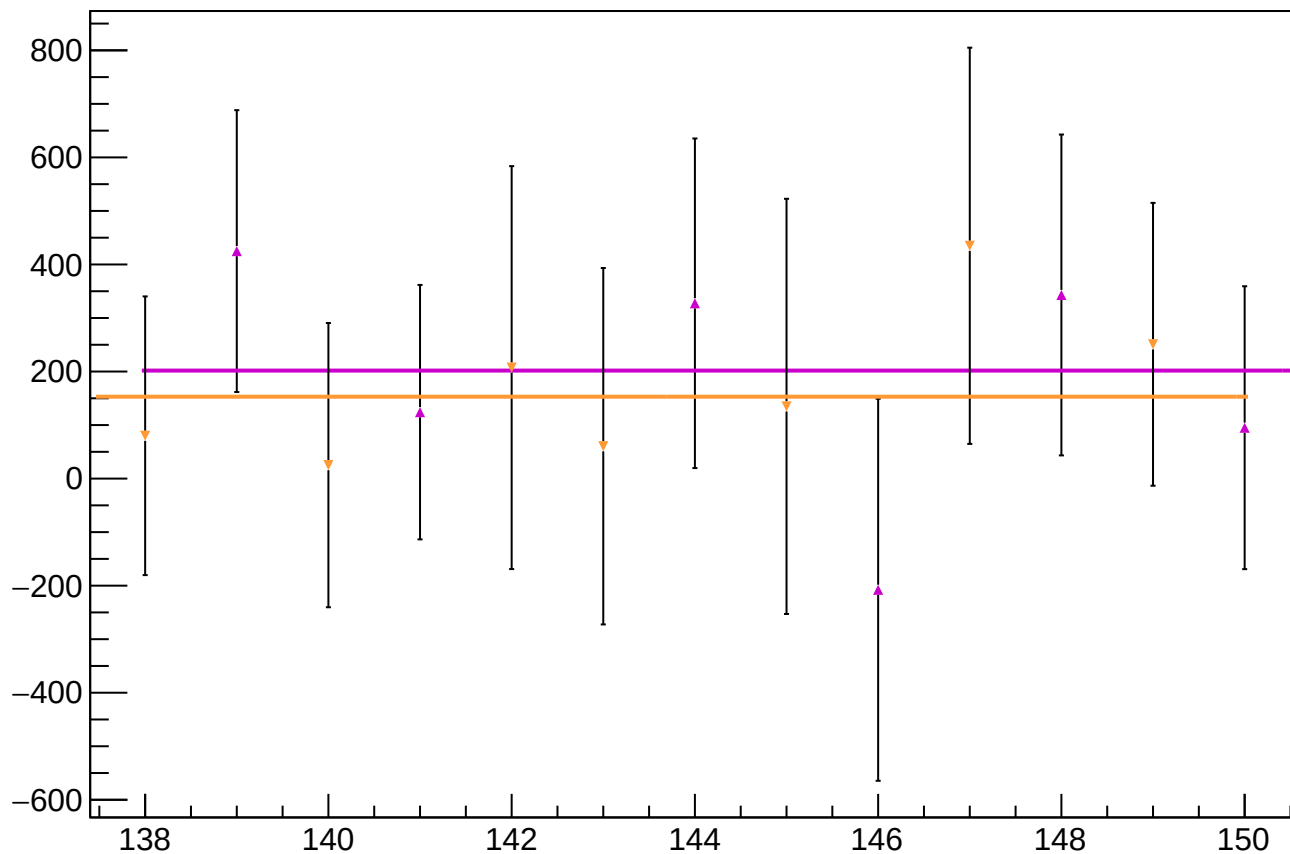
In: 29.973+/-0.010  $\chi^2/\text{NDF}$ :26880.7/5

Out: 30.463+/-0.010  $\chi^2/\text{NDF}$ :19927.1/6

All: 30.215+/-0.007  $\chi^2/\text{NDF}$ : 48100.0/12



asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 152.976+/-116.797  $\chi^2/\text{NDF}$ :1.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 201.780+/-114.712  $\chi^2/\text{NDF}$ :2.7/5

Left: 177.817+/-81.841  $\chi^2/\text{NDF}$ : 3.9/12

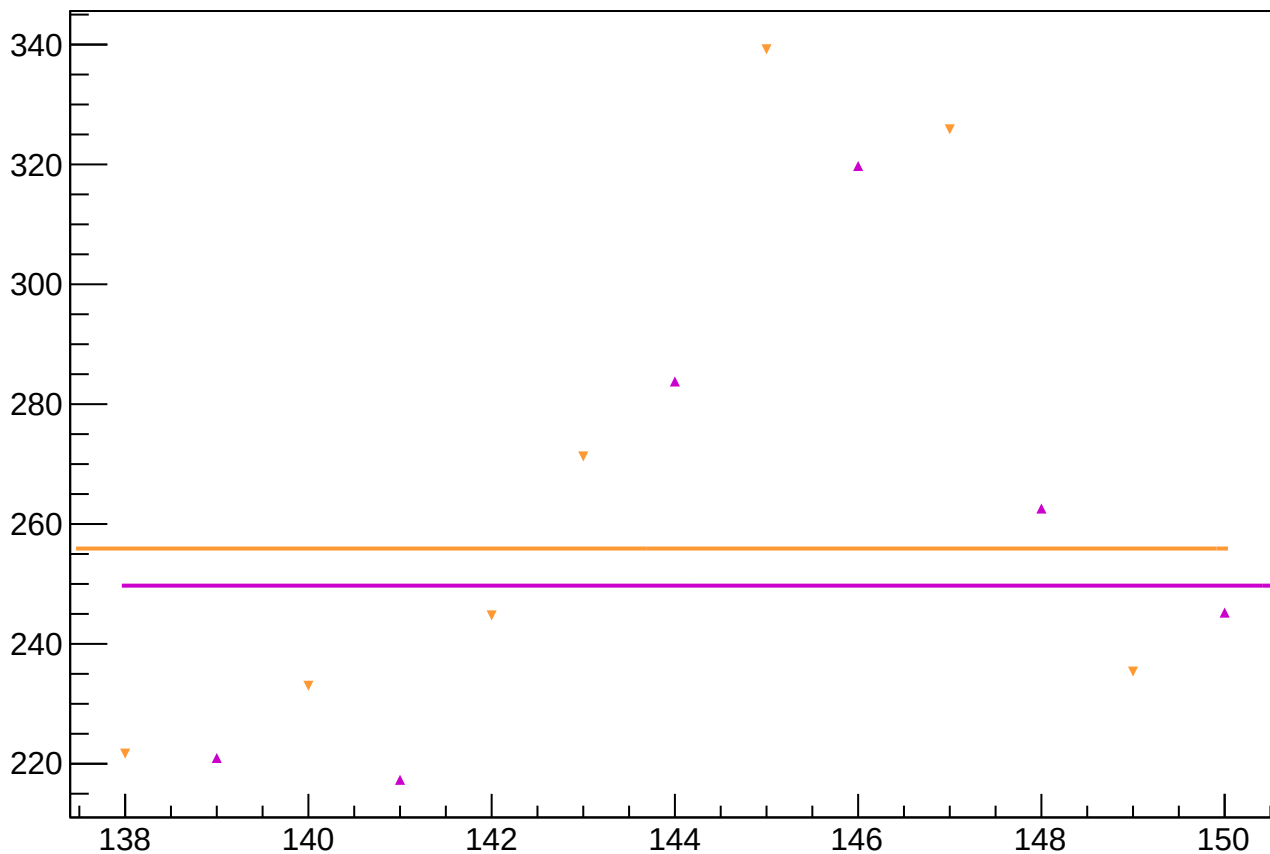
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 201.780+/-114.712  $\chi^2/\text{NDF}$ :2.7/5

Out: 152.976+/-116.797  $\chi^2/\text{NDF}$ :1.1/6

All: 177.817+/-81.841  $\chi^2/\text{NDF}$ : 3.9/12

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 255.911+/-0.083  $\chi^2/\text{NDF}$ :231258.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 249.718+/-0.081  $\chi^2/\text{NDF}$ :166805.6/5

Left: 252.759+/-0.058  $\chi^2/\text{NDF}$ : 400925.5/12

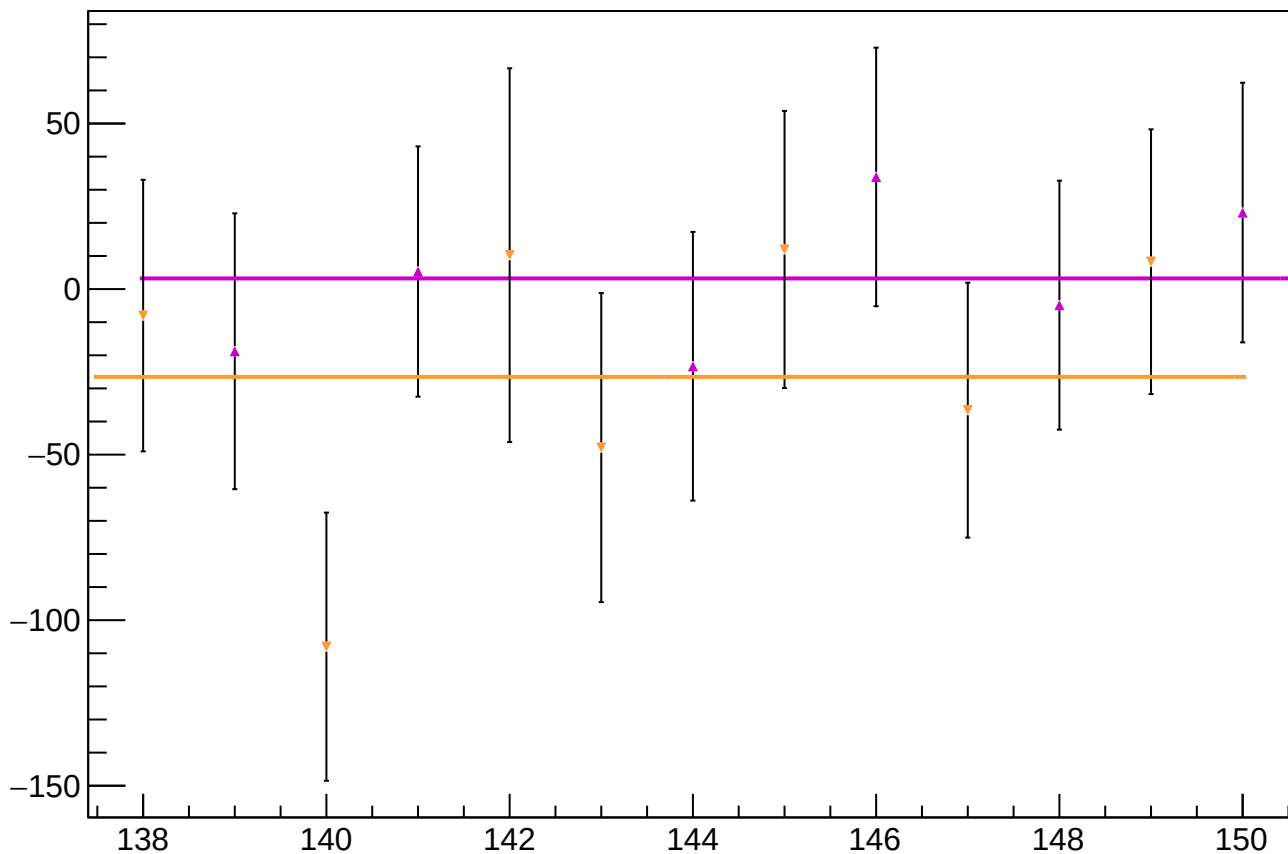
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 249.718+/-0.081  $\chi^2/\text{NDF}$ :166805.6/5

Out: 255.911+/-0.083  $\chi^2/\text{NDF}$ :231258.1/6

All: 252.759+/-0.058  $\chi^2/\text{NDF}$ : 400925.5/12

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -26.516+/-16.120  $\chi^2/\text{NDF}$ : 6.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 3.220+/-16.018  $\chi^2/\text{NDF}$ : 1.6/5

Left: -11.554+/-11.362  $\chi^2/\text{NDF}$ : 9.9/12

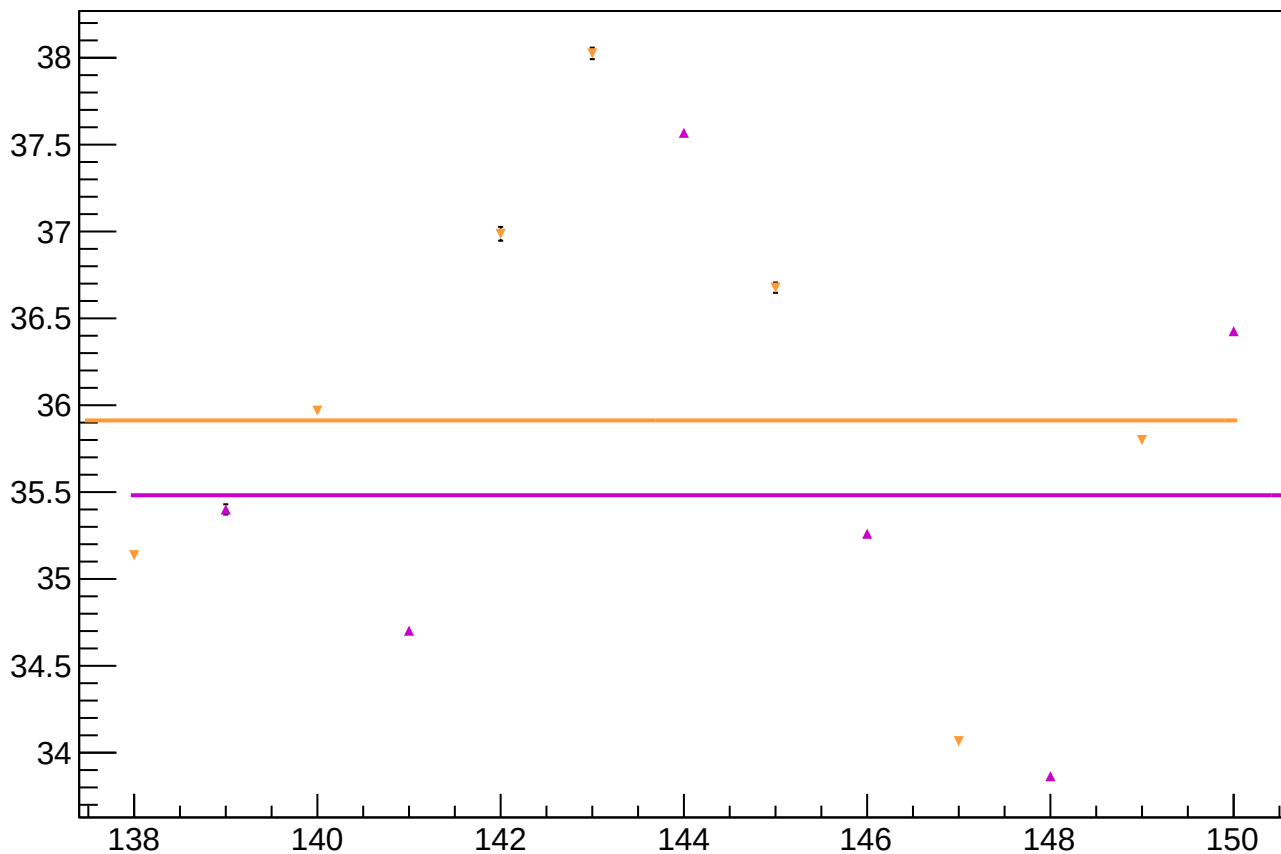
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3.220+/-16.018  $\chi^2/\text{NDF}$ : 1.6/5

Out: -26.516+/-16.120  $\chi^2/\text{NDF}$ : 6.6/6

All: -11.554+/-11.362  $\chi^2/\text{NDF}$ : 9.9/12

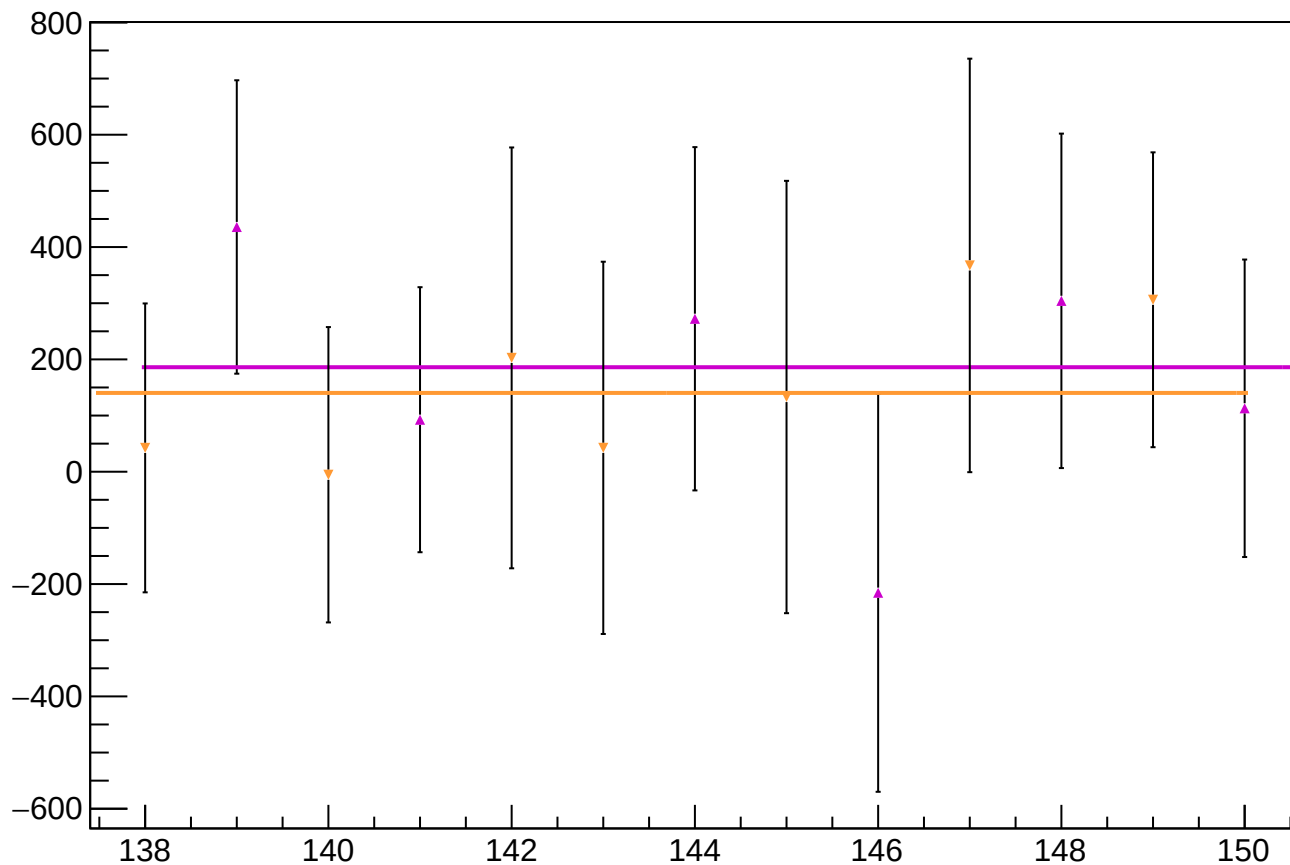
asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 35.913+/-0.011  $\chi^2/\text{NDF}$ :10824.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 35.482+/-0.011  $\chi^2/\text{NDF}$ :11069.4/5

Left: 35.696+/-0.008  $\chi^2/\text{NDF}$ : 22612.6/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 35.482+/-0.011  $\chi^2/\text{NDF}$ :11069.4/5  
 Out: 35.913+/-0.011  $\chi^2/\text{NDF}$ :10824.9/6  
 All: 35.696+/-0.008  $\chi^2/\text{NDF}$ : 22612.6/12

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 140.298+/-115.886  $\chi^2/\text{NDF}$ : 1.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 186.062+/-114.086  $\chi^2/\text{NDF}$ : 2.7/5

Left: 163.538+/-81.300  $\chi^2/\text{NDF}$ : 4.1/12

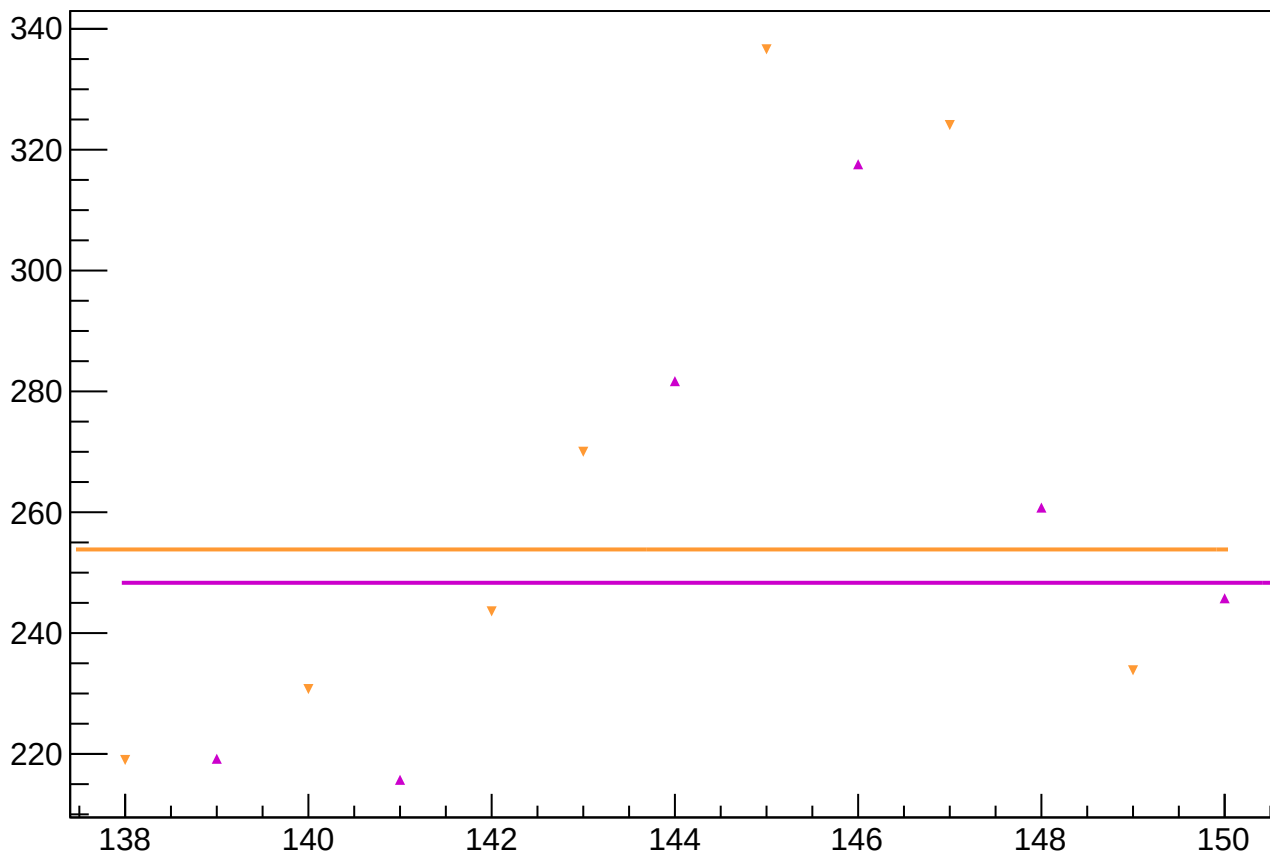
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 186.062+/-114.086  $\chi^2/\text{NDF}$ : 2.7/5

Out: 140.298+/-115.886  $\chi^2/\text{NDF}$ : 1.3/6

All: 163.538+/-81.300  $\chi^2/\text{NDF}$ : 4.1/12

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 253.841+/-0.082  $\chi^2/\text{NDF}$ :235367.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 248.324+/-0.081  $\chi^2/\text{NDF}$ :166965.7/5

Left: 251.040+/-0.057  $\chi^2/\text{NDF}$ : 404634.7/12

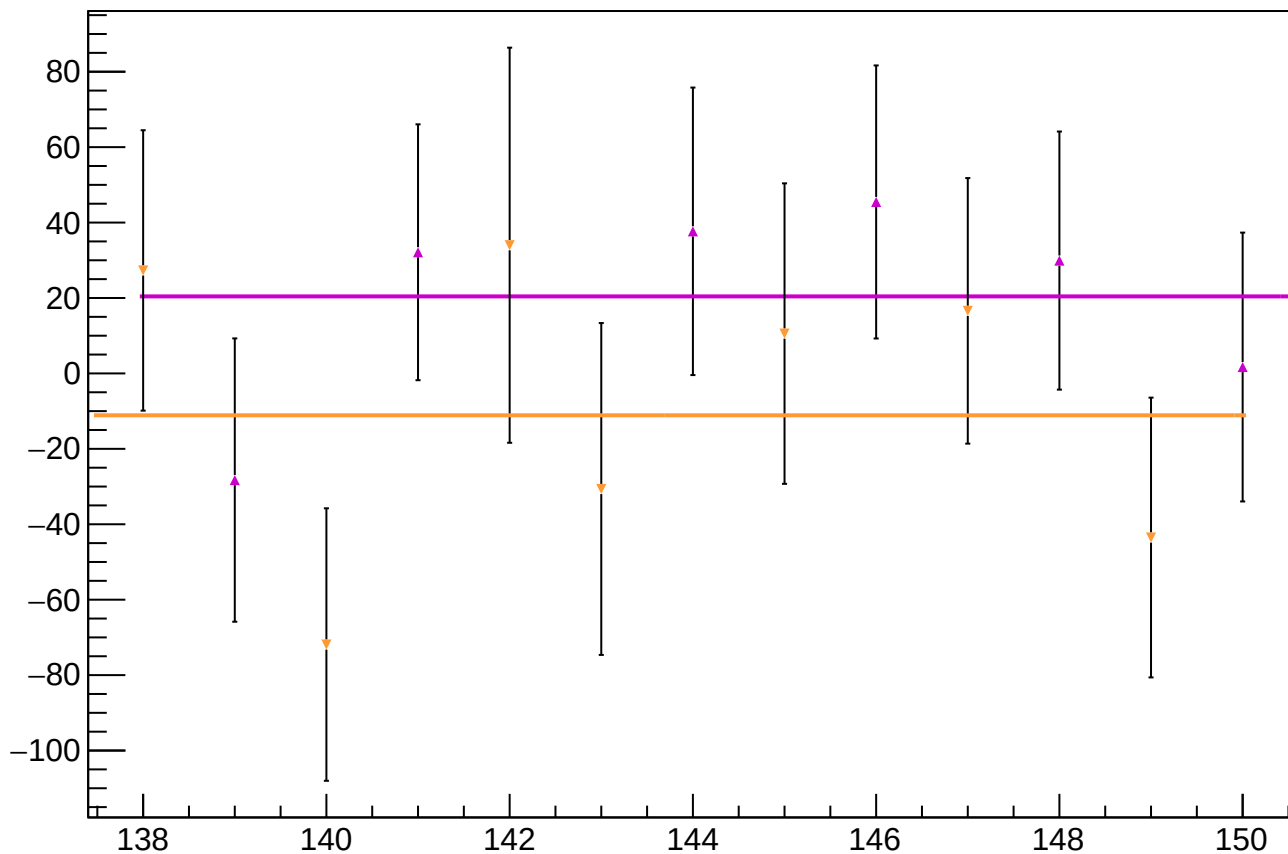
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 248.324+/-0.081  $\chi^2/\text{NDF}$ :166965.7/5

Out: 253.841+/-0.082  $\chi^2/\text{NDF}$ :235367.5/6

All: 251.040+/-0.057  $\chi^2/\text{NDF}$ : 404634.7/12

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -11.105+/-14.851  $\chi^2/\text{NDF}$ :6.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 20.425+/-14.634  $\chi^2/\text{NDF}$ :2.8/5

Left: 4.892+/-10.424  $\chi^2/\text{NDF}$ : 11.6/12

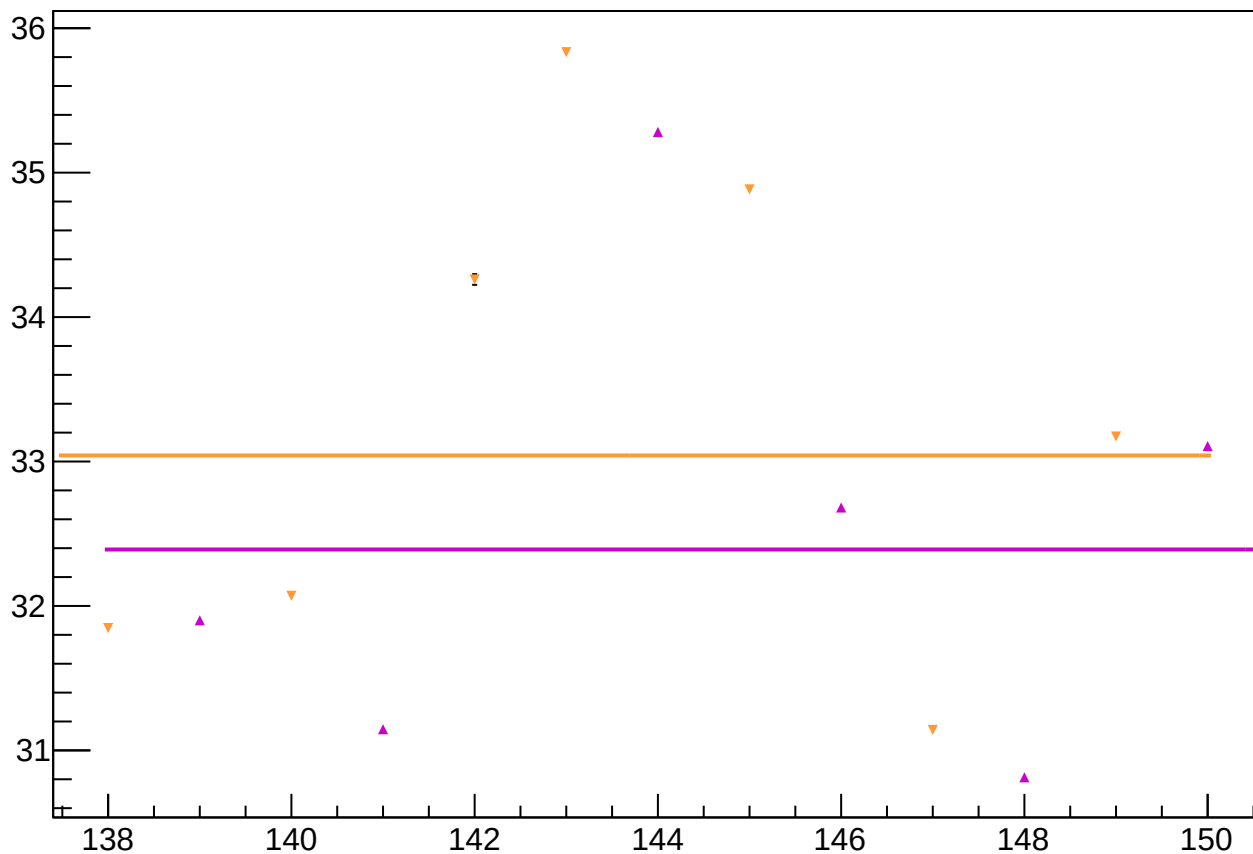
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 20.425+/-14.634  $\chi^2/\text{NDF}$ :2.8/5

Out: -11.105+/-14.851  $\chi^2/\text{NDF}$ :6.5/6

All: 4.892+/-10.424  $\chi^2/\text{NDF}$ : 11.6/12

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug, Sign Corrected

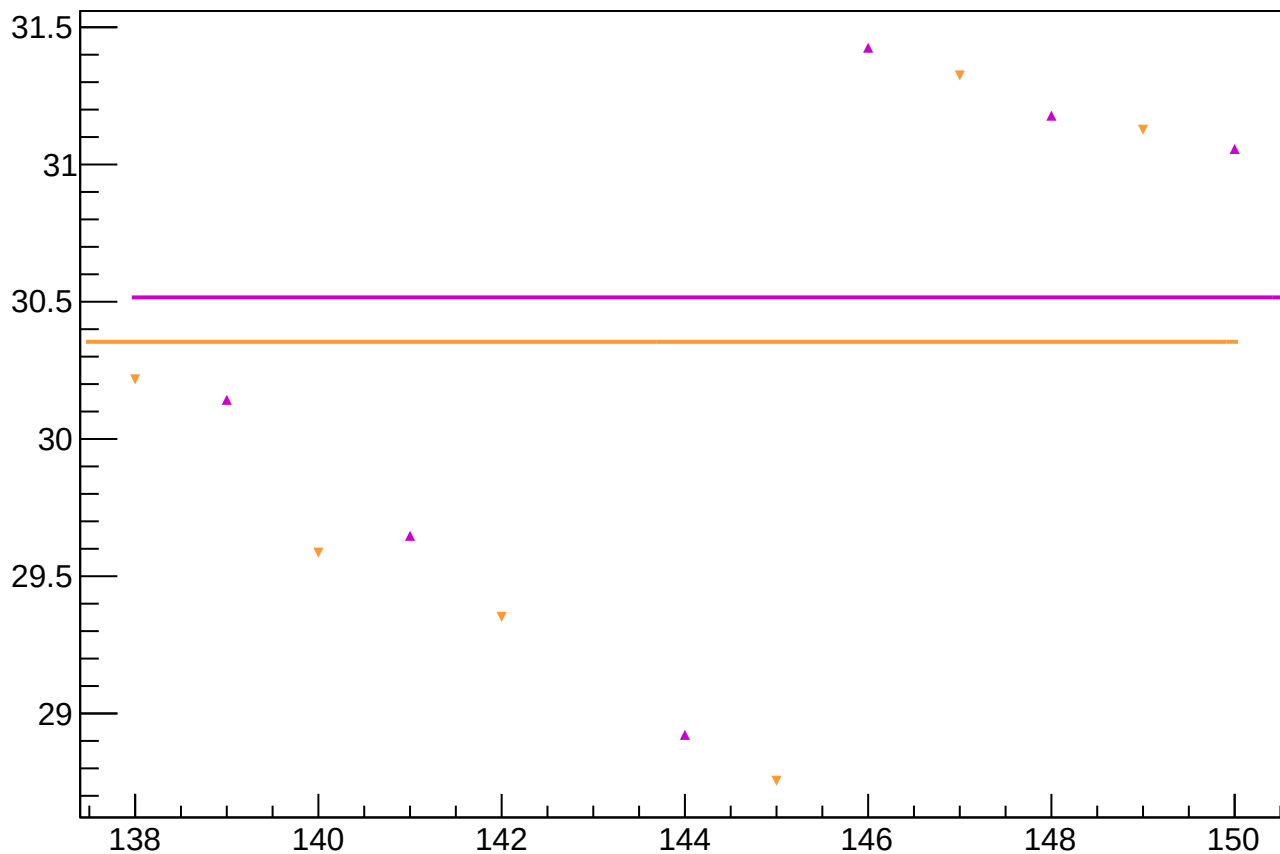


Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 33.042+/-0.011     $\chi^2/\text{NDF}$ :22774.4/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 32.391+/-0.010     $\chi^2/\text{NDF}$ :19718.9/5

Left: 32.712+/-0.007     $\chi^2/\text{NDF}$ : 44444.3/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 32.391+/-0.010     $\chi^2/\text{NDF}$ :19718.9/5  
 Out: 33.042+/-0.011     $\chi^2/\text{NDF}$ :22774.4/6  
 All: 32.712+/-0.007     $\chi^2/\text{NDF}$ : 44444.3/12



# yield\_usl\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 30.354+/-0.000  $\chi^2/\text{NDF}$ :529946411.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 30.516+/-0.000  $\chi^2/\text{NDF}$ :540890261.8/5

Left: 30.440+/-0.000  $\chi^2/\text{NDF}$ : 1078992795.5/11

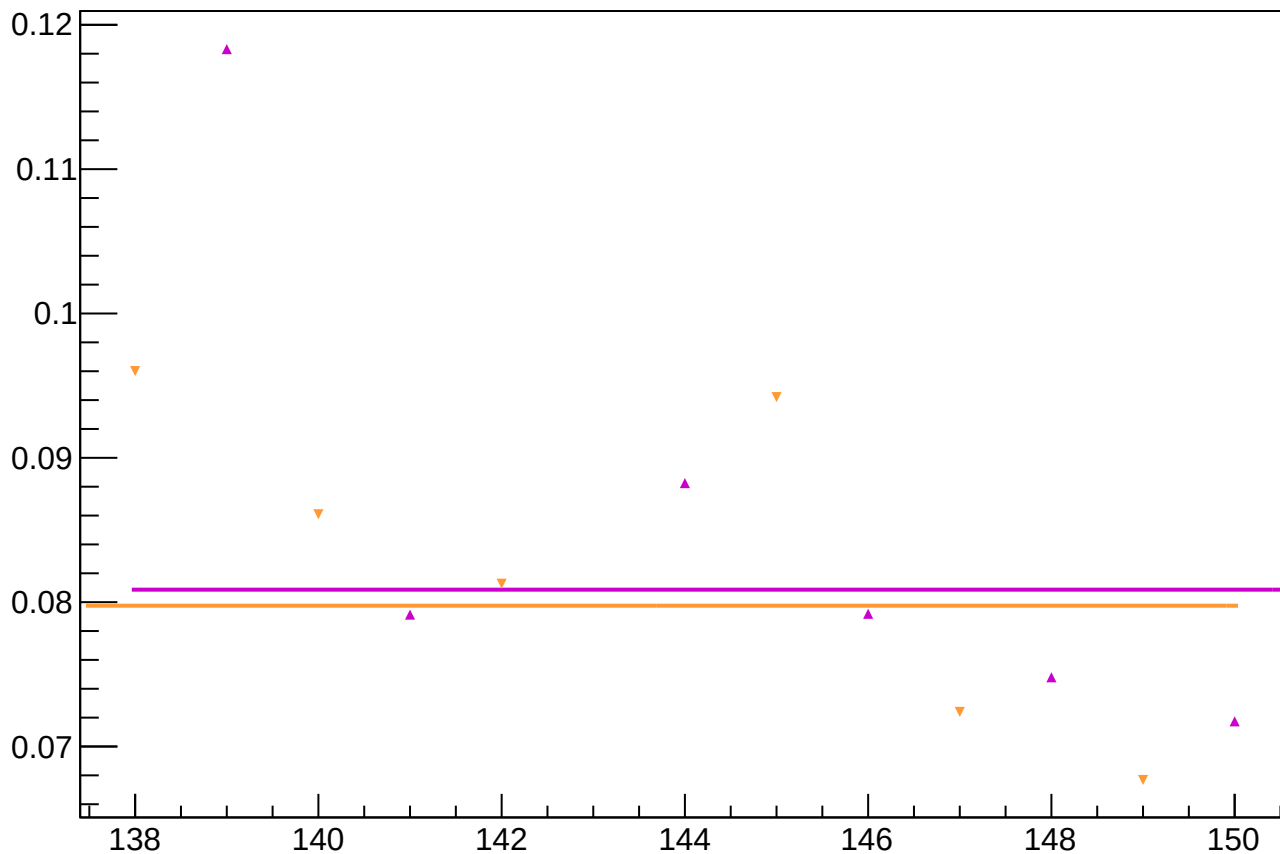
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 30.516+/-0.000  $\chi^2/\text{NDF}$ :540890261.8/5

Out: 30.354+/-0.000  $\chi^2/\text{NDF}$ :529946411.5/5

All: 30.440+/-0.000  $\chi^2/\text{NDF}$ : 1078992795.5/11

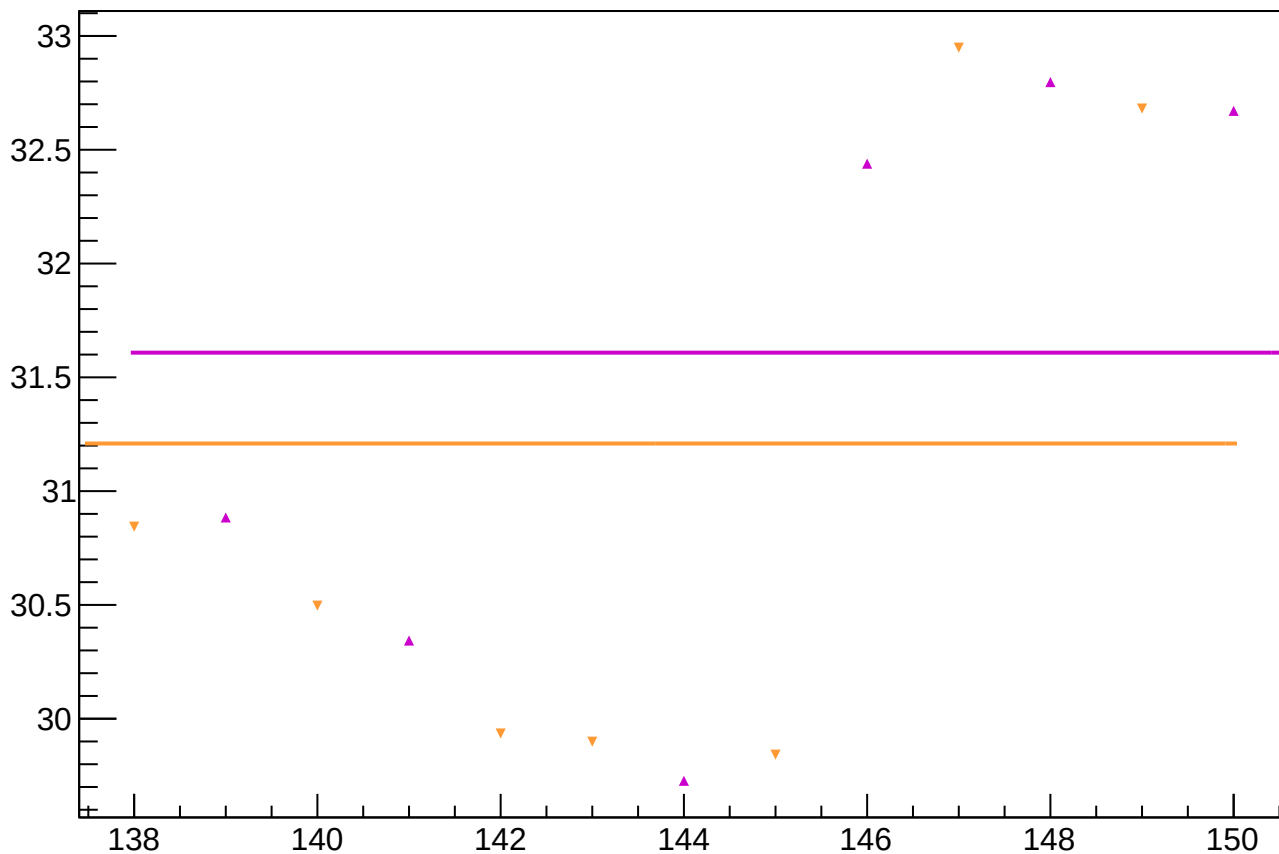
# yield\_usl\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.080+/-0.000  $\chi^2/\text{NDF}$ :140204.5/5  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.081+/-0.000  $\chi^2/\text{NDF}$ :186936.3/5

Left: 0.080+/-0.000  $\chi^2/\text{NDF}$ : 327910.3/11  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.081+/-0.000  $\chi^2/\text{NDF}$ :186936.3/5  
Out: 0.080+/-0.000  $\chi^2/\text{NDF}$ :140204.5/5  
All: 0.080+/-0.000  $\chi^2/\text{NDF}$ : 327910.3/11

# yield\_usr\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 31.209+/-0.000  $\chi^2/\text{NDF}$ :1277370832.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 31.608+/-0.000  $\chi^2/\text{NDF}$ :1180597063.5/5

Left: 31.410+/-0.000  $\chi^2/\text{NDF}$ : 2517307875.1/12

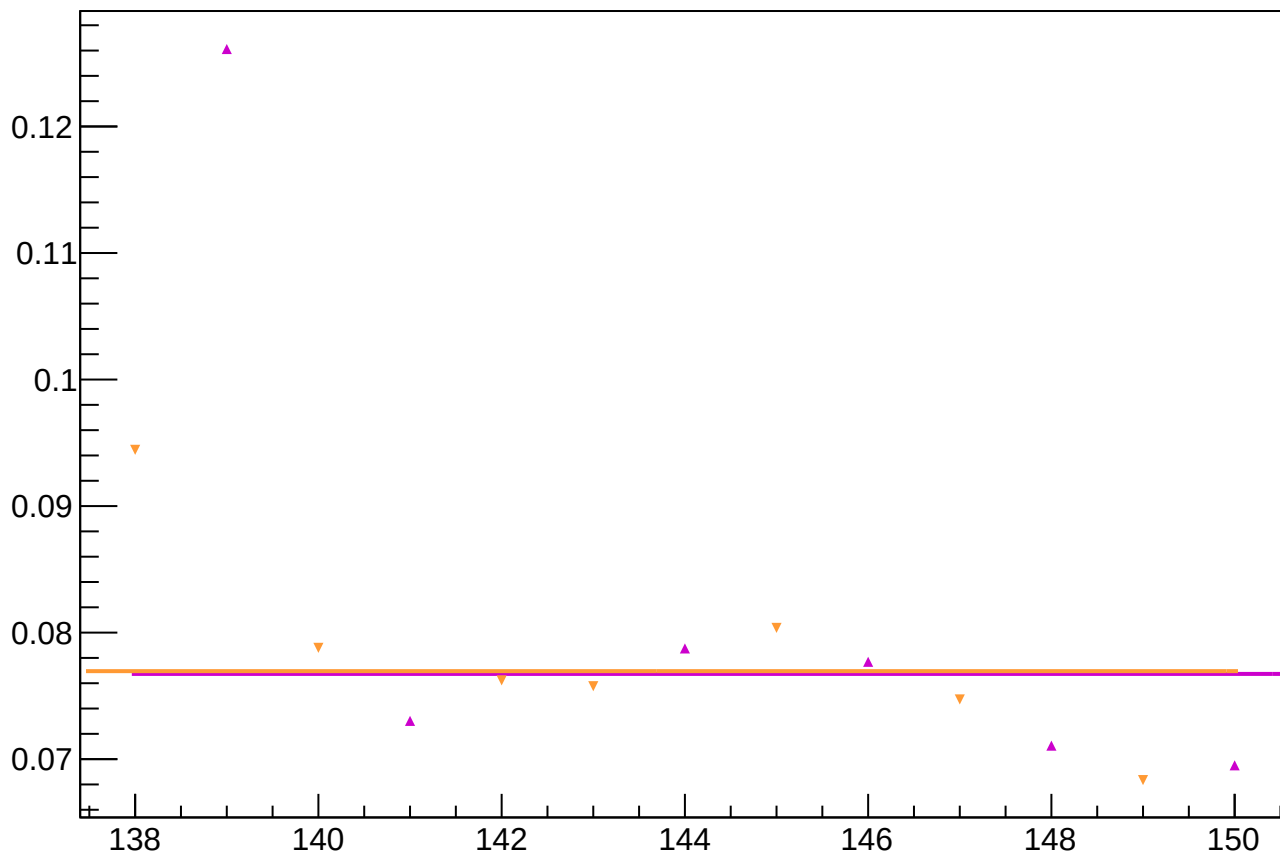
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 31.608+/-0.000  $\chi^2/\text{NDF}$ :1180597063.5/5

Out: 31.209+/-0.000  $\chi^2/\text{NDF}$ :1277370832.3/6

All: 31.410+/-0.000  $\chi^2/\text{NDF}$ : 2517307875.1/12

# yield\_usr\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.077+/-0.000  $\chi^2/\text{NDF}$ : 74311.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.077+/-0.000  $\chi^2/\text{NDF}$ : 248173.1/5

Left: 0.077+/-0.000  $\chi^2/\text{NDF}$ : 322520.4/12

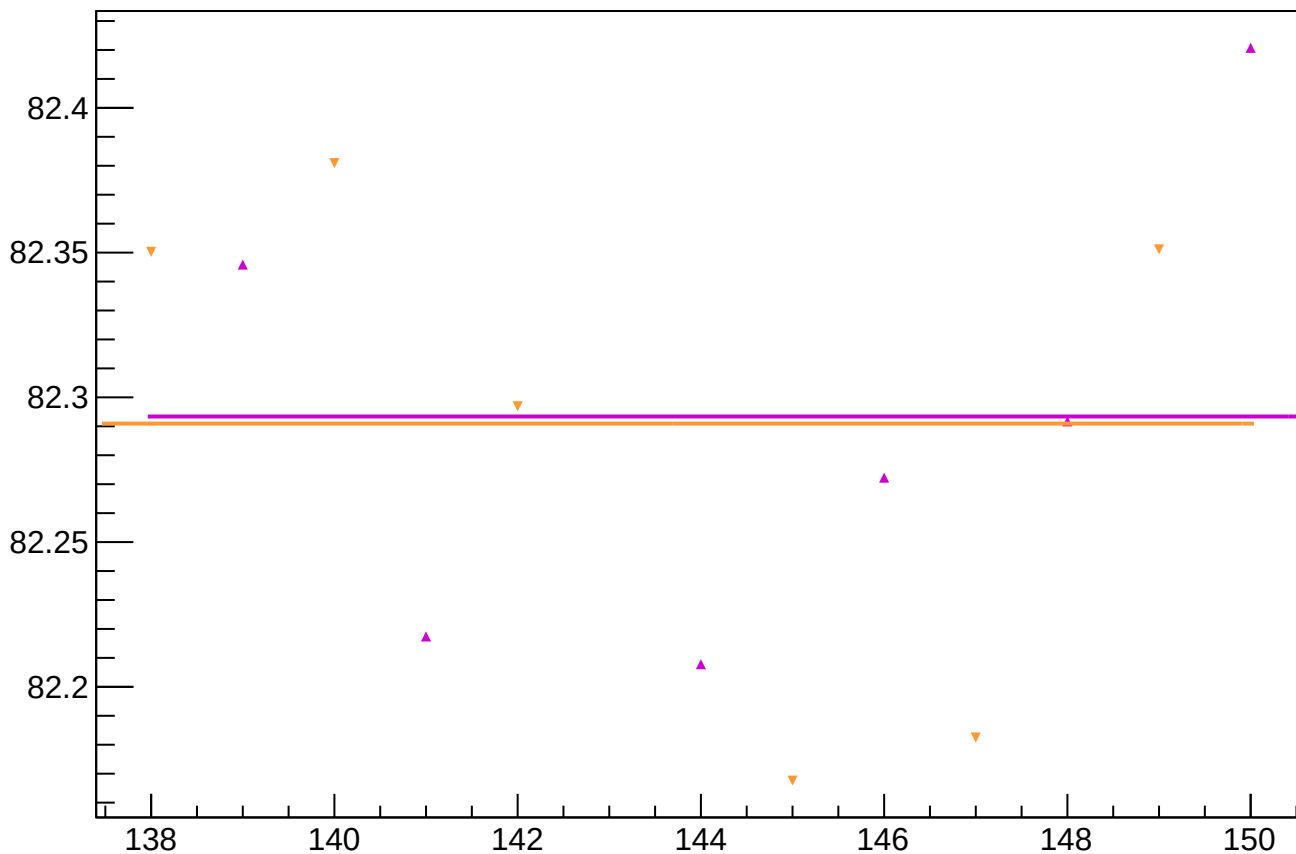
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.077+/-0.000  $\chi^2/\text{NDF}$ : 248173.1/5

Out: 0.077+/-0.000  $\chi^2/\text{NDF}$ : 74311.8/6

All: 0.077+/-0.000  $\chi^2/\text{NDF}$ : 322520.4/12

# yield\_dsl\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 82.291+/-0.000  $\chi^2/\text{NDF}$ :16696013.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 82.293+/-0.000  $\chi^2/\text{NDF}$ :15205760.2/5

Left: 82.292+/-0.000  $\chi^2/\text{NDF}$ : 31909069.1/11

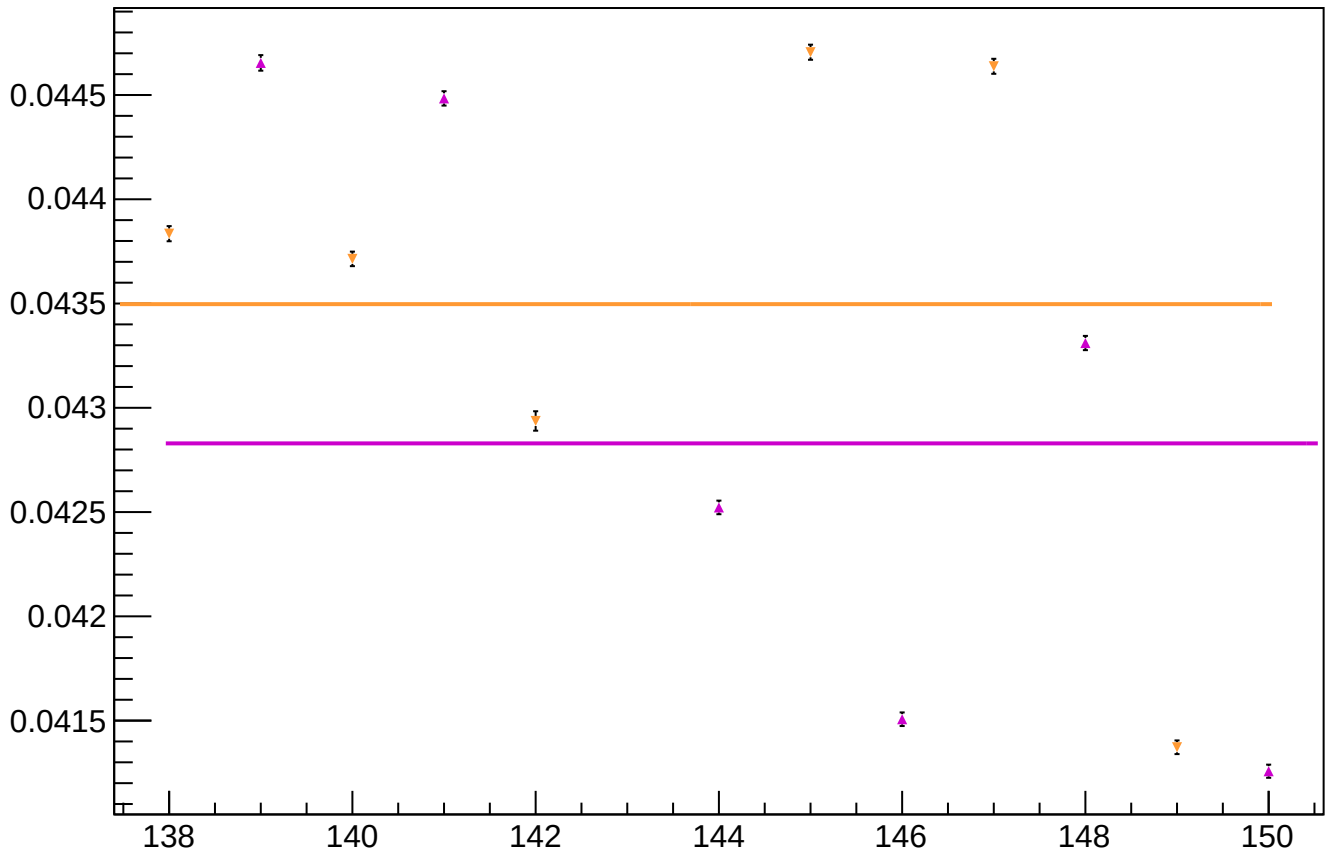
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 82.293+/-0.000  $\chi^2/\text{NDF}$ :15205760.2/5

Out: 82.291+/-0.000  $\chi^2/\text{NDF}$ :16696013.0/5

All: 82.292+/-0.000  $\chi^2/\text{NDF}$ : 31909069.1/11

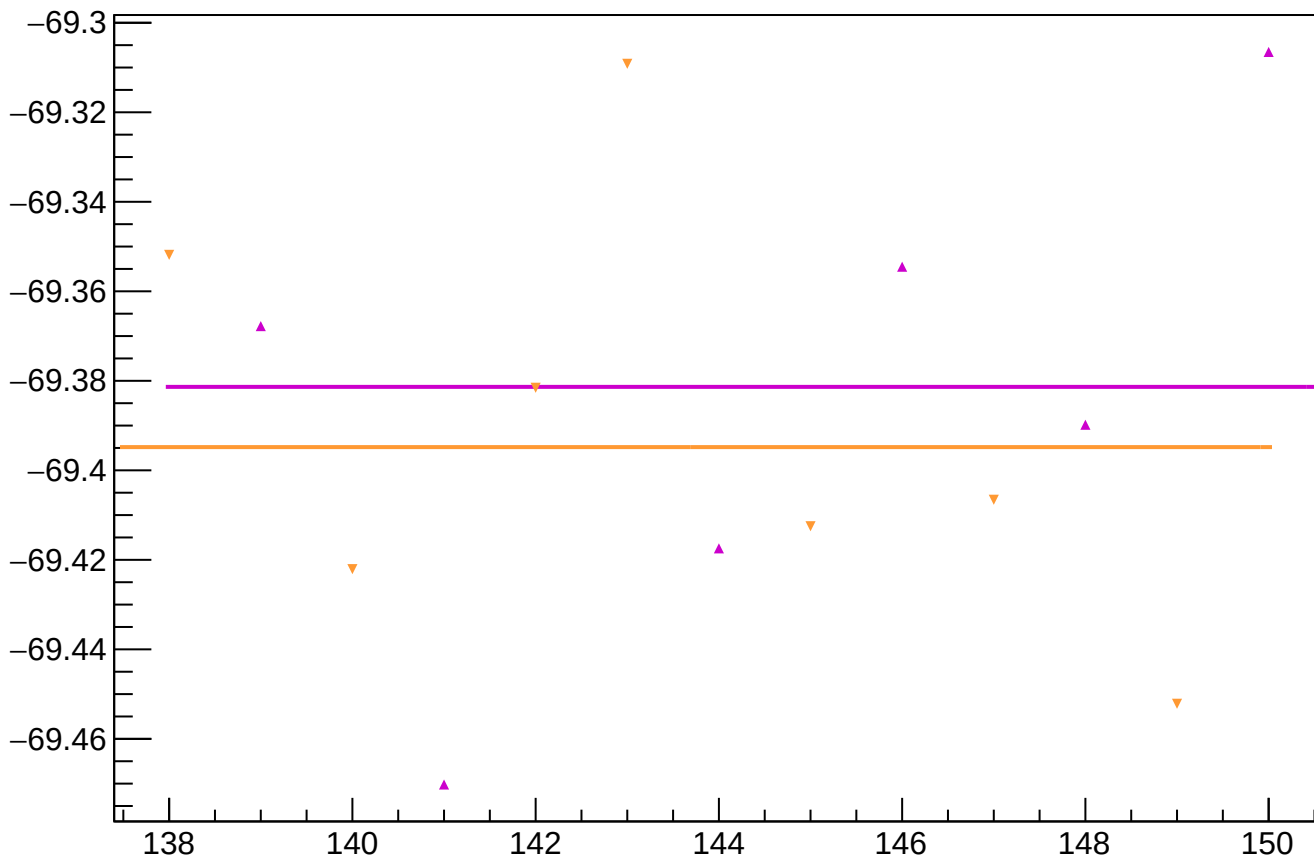
# yield\_dsl\_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.043 $\pm$ 0.000  $\chi^2$ /NDF:6588.9/5  
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 0.043 $\pm$ 0.000  $\chi^2$ /NDF:9098.0/5

Left: 0.043 $\pm$ 0.000  $\chi^2$ /NDF: 16772.3/11  
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
In: 0.043 $\pm$ 0.000  $\chi^2$ /NDF:9098.0/5  
Out: 0.043 $\pm$ 0.000  $\chi^2$ /NDF:6588.9/5  
All: 0.043 $\pm$ 0.000  $\chi^2$ /NDF: 16772.3/11

# yield\_dsr\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -69.395+/-0.000  $\chi^2/\text{NDF}$ : 2898701.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -69.381+/-0.000  $\chi^2/\text{NDF}$ : 3794288.2/5

Left: -69.388+/-0.000  $\chi^2/\text{NDF}$ : 6824540.0/12

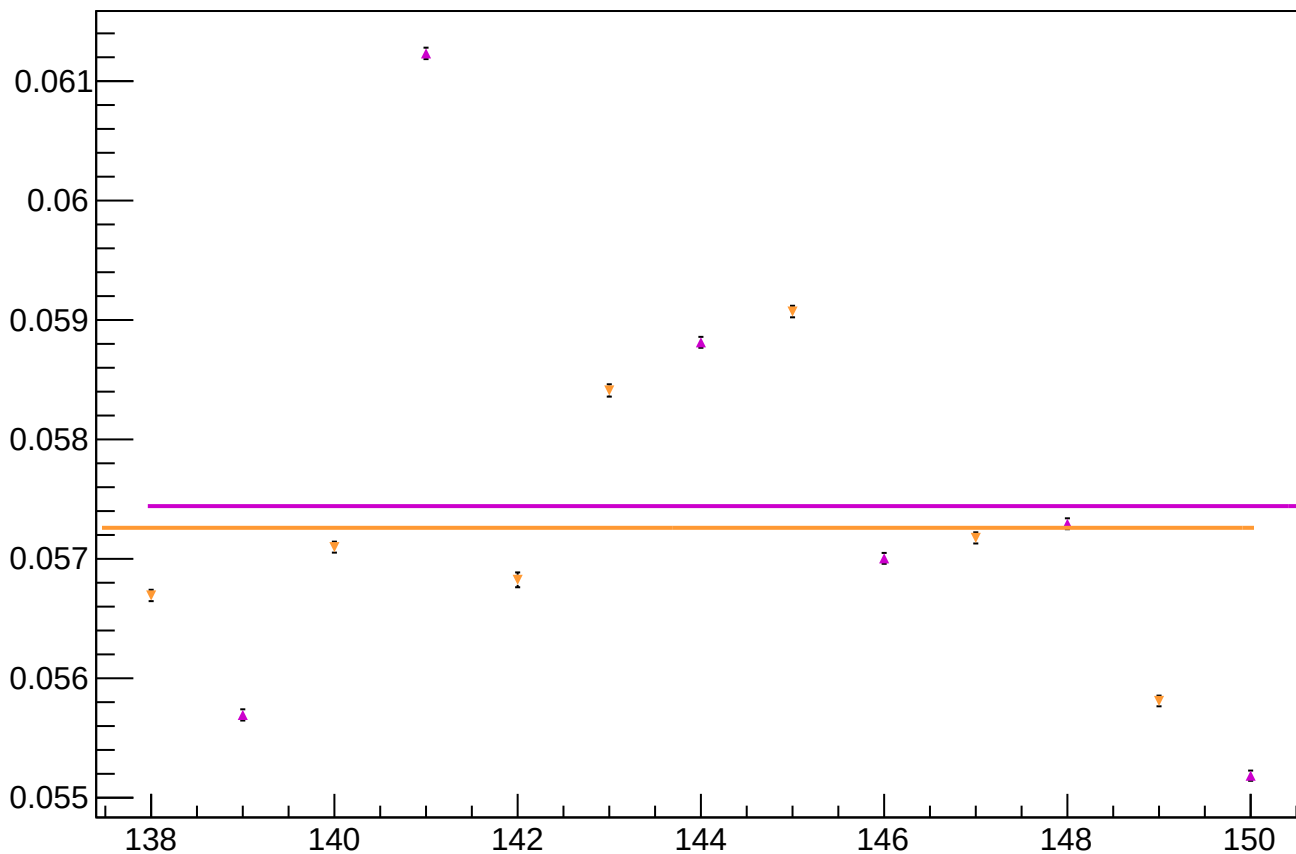
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -69.381+/-0.000  $\chi^2/\text{NDF}$ : 3794288.2/5

Out: -69.395+/-0.000  $\chi^2/\text{NDF}$ : 2898701.5/6

All: -69.388+/-0.000  $\chi^2/\text{NDF}$ : 6824540.0/12

# yield\_dsr\_rms vs Slug, Sign Corrected

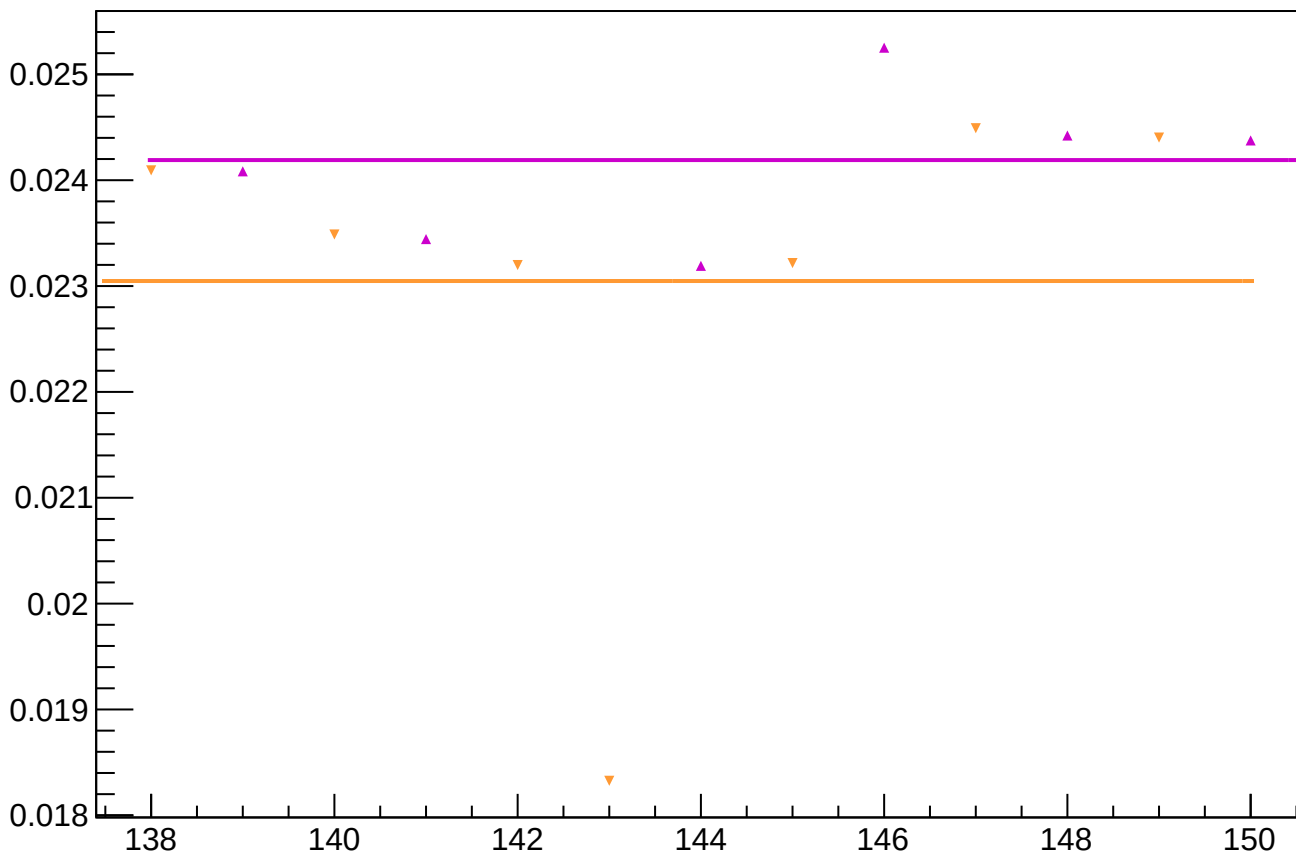


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 3145.4/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 11430.9/5

Left: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 14624.2/12  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 11430.9/5  
Out: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 3145.4/6  
All: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 14624.2/12



# yield\_atl1\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ :4106219798.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.024+/-0.000  $\chi^2/\text{NDF}$ :387749667.4/5

Left: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 5073371465.9/12

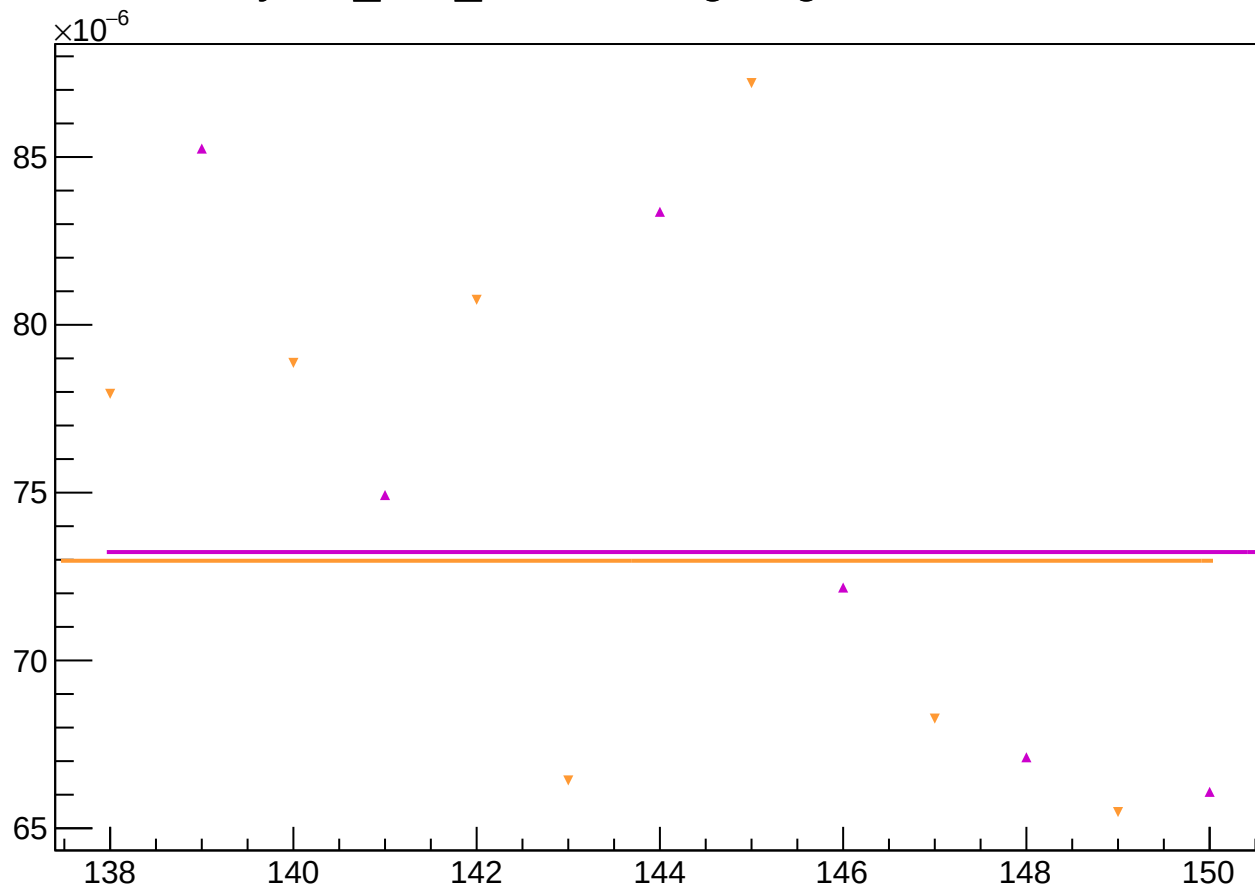
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.024+/-0.000  $\chi^2/\text{NDF}$ :387749667.4/5

Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ :4106219798.5/6

All: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 5073371465.9/12

# yield\_atl1\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :101325.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :87143.0/5

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 188528.0/12

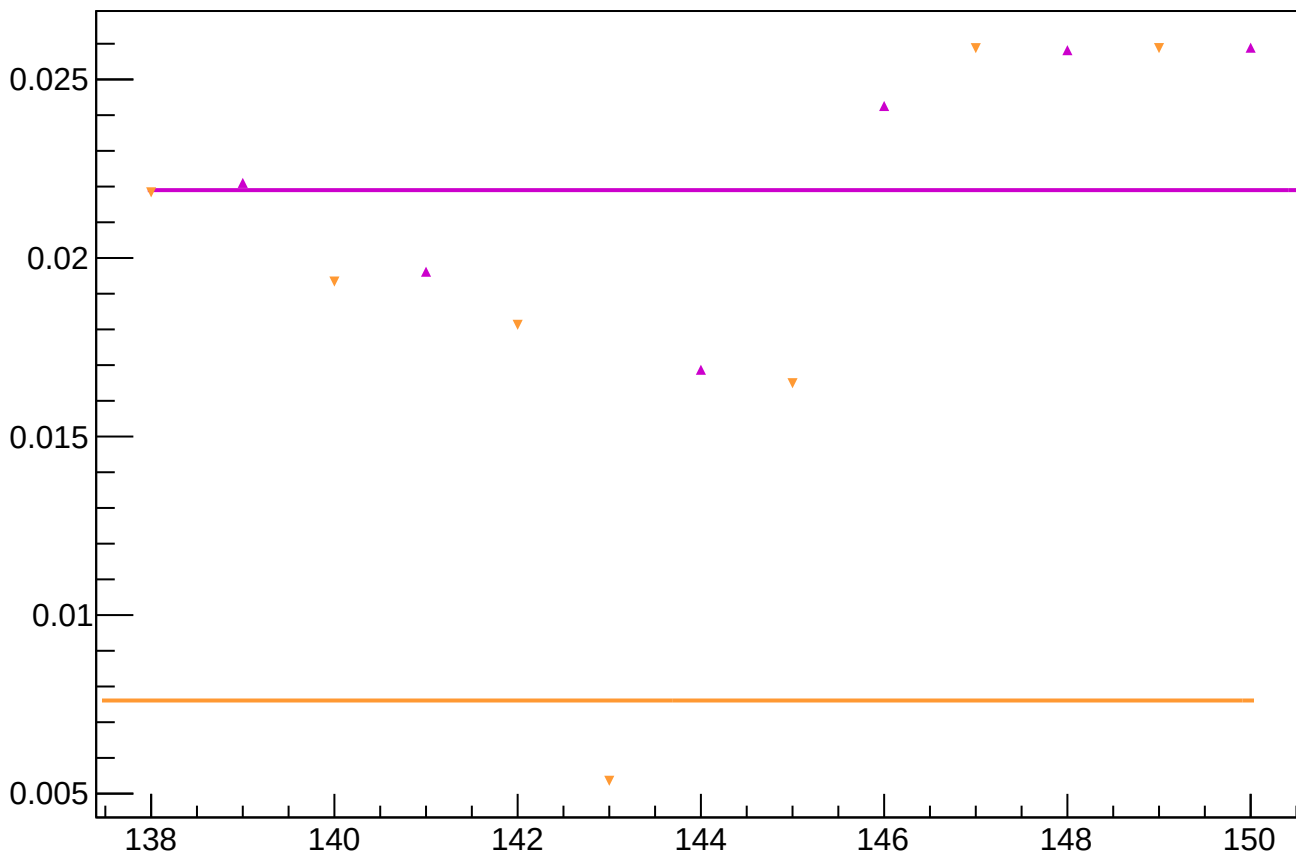
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :87143.0/5

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :101325.3/6

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 188528.0/12

# yield\_atl2\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ :13297991341.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.022+/-0.000  $\chi^2/\text{NDF}$ :819870576.9/5

Left: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 24763463007.0/12

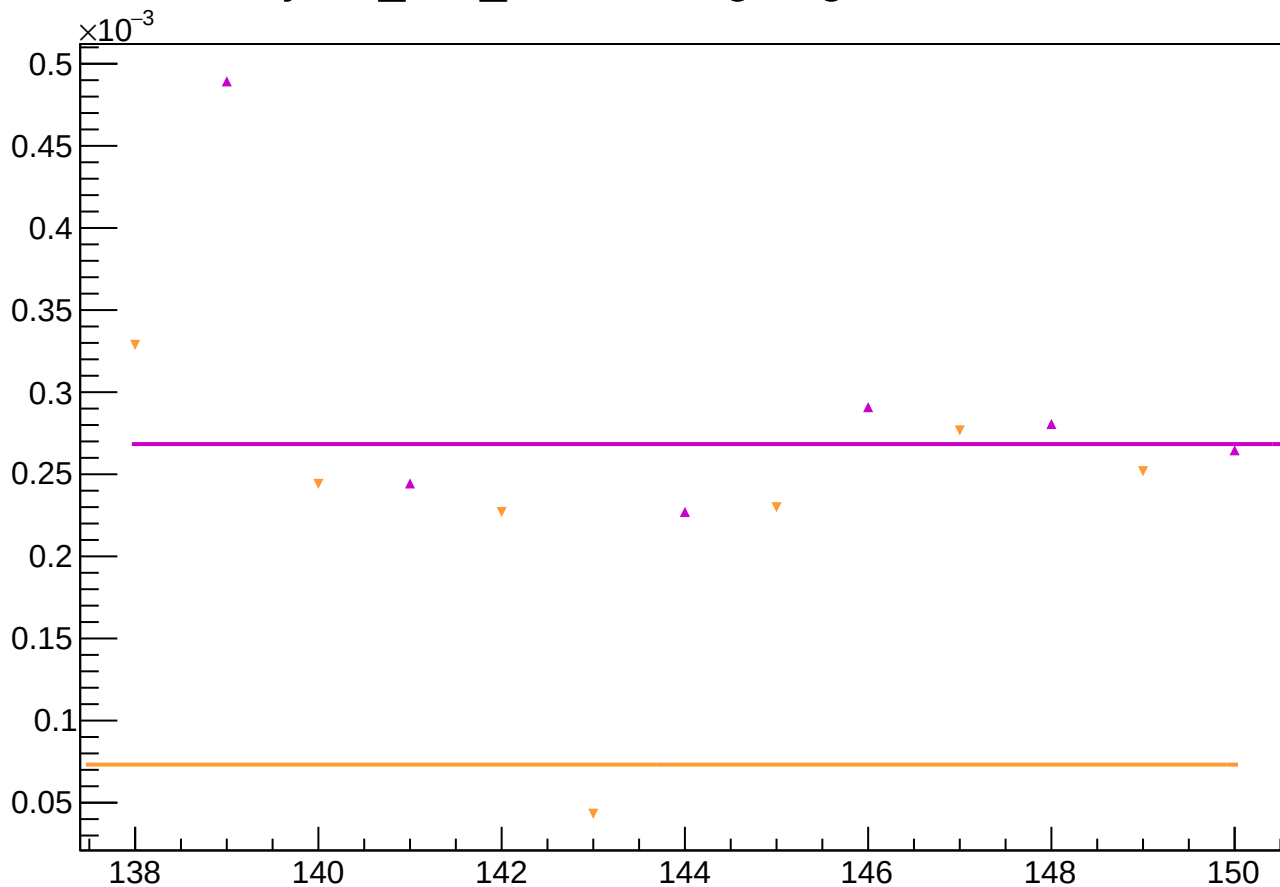
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.022+/-0.000  $\chi^2/\text{NDF}$ :819870576.9/5

Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ :13297991341.8/6

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 24763463007.0/12

# yield\_atl2\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4509900.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 363447.5/5

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8844921.0/12

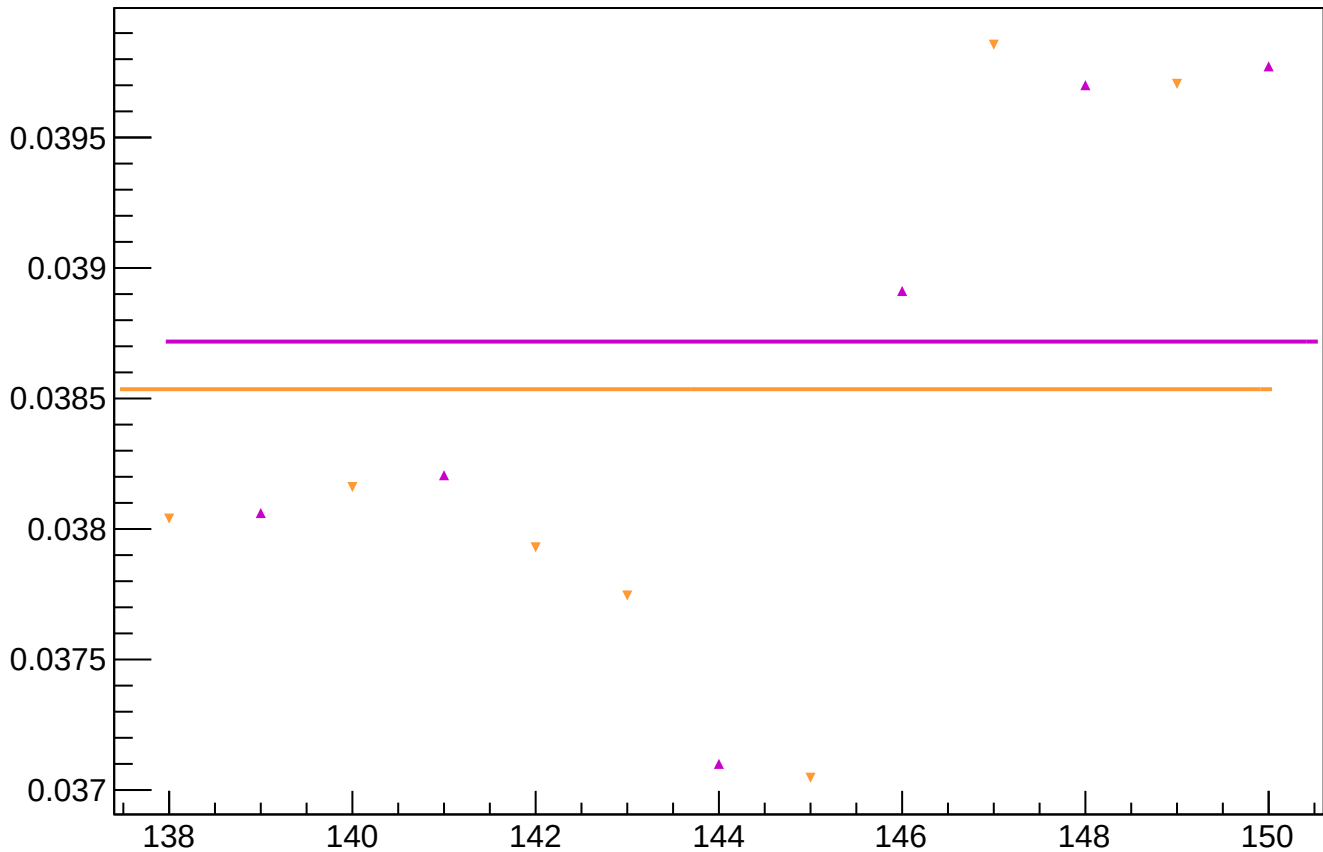
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 363447.5/5

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4509900.0/6

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8844921.0/12

# yield\_atr1\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.039+/-0.000  $\chi^2/\text{NDF}$ :255429054.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.039+/-0.000  $\chi^2/\text{NDF}$ :228557528.7/5

Left: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 488069993.6/12

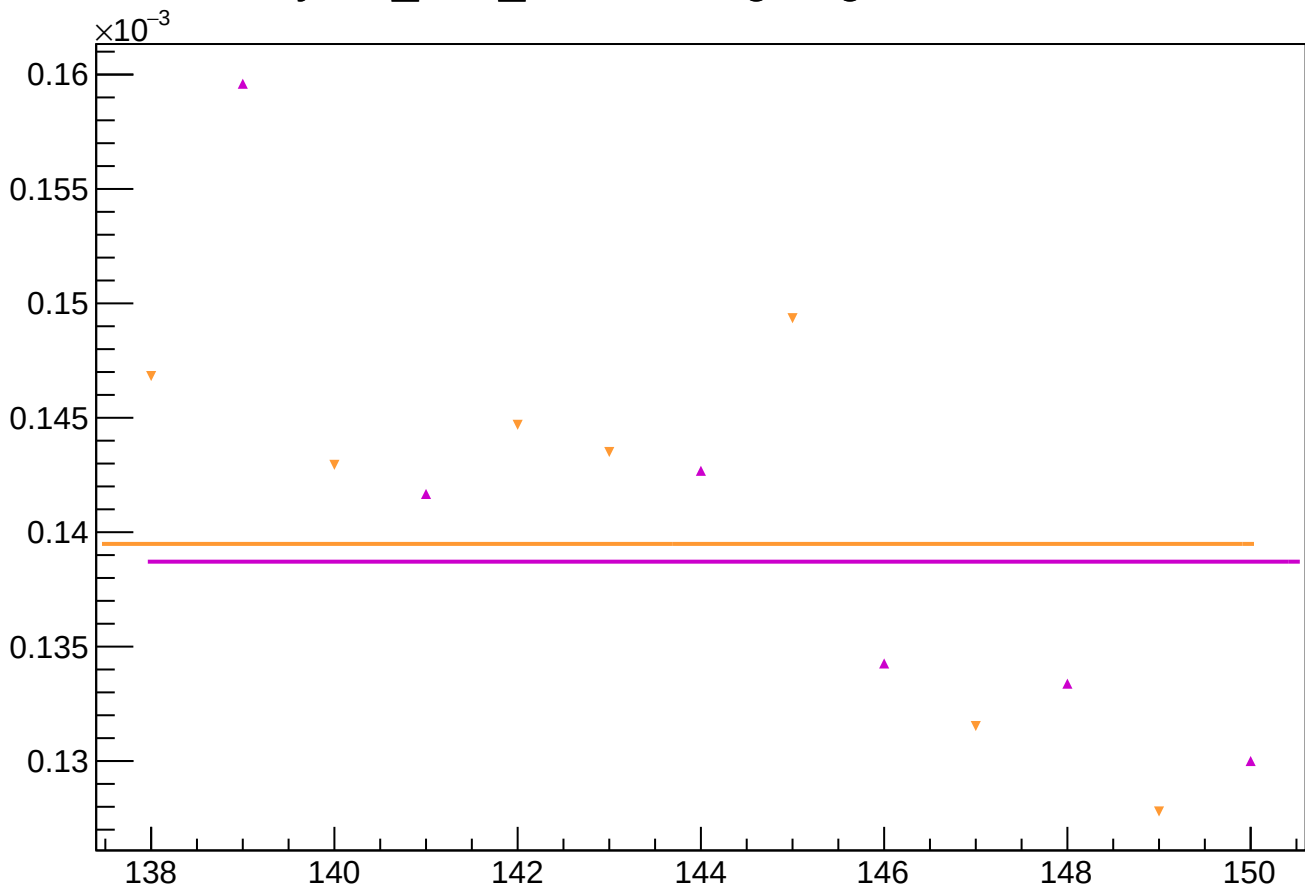
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.039+/-0.000  $\chi^2/\text{NDF}$ :228557528.7/5

Out: 0.039+/-0.000  $\chi^2/\text{NDF}$ :255429054.5/6

All: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 488069993.6/12

# yield\_atr1\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 31669.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38288.4/5

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 70106.1/12

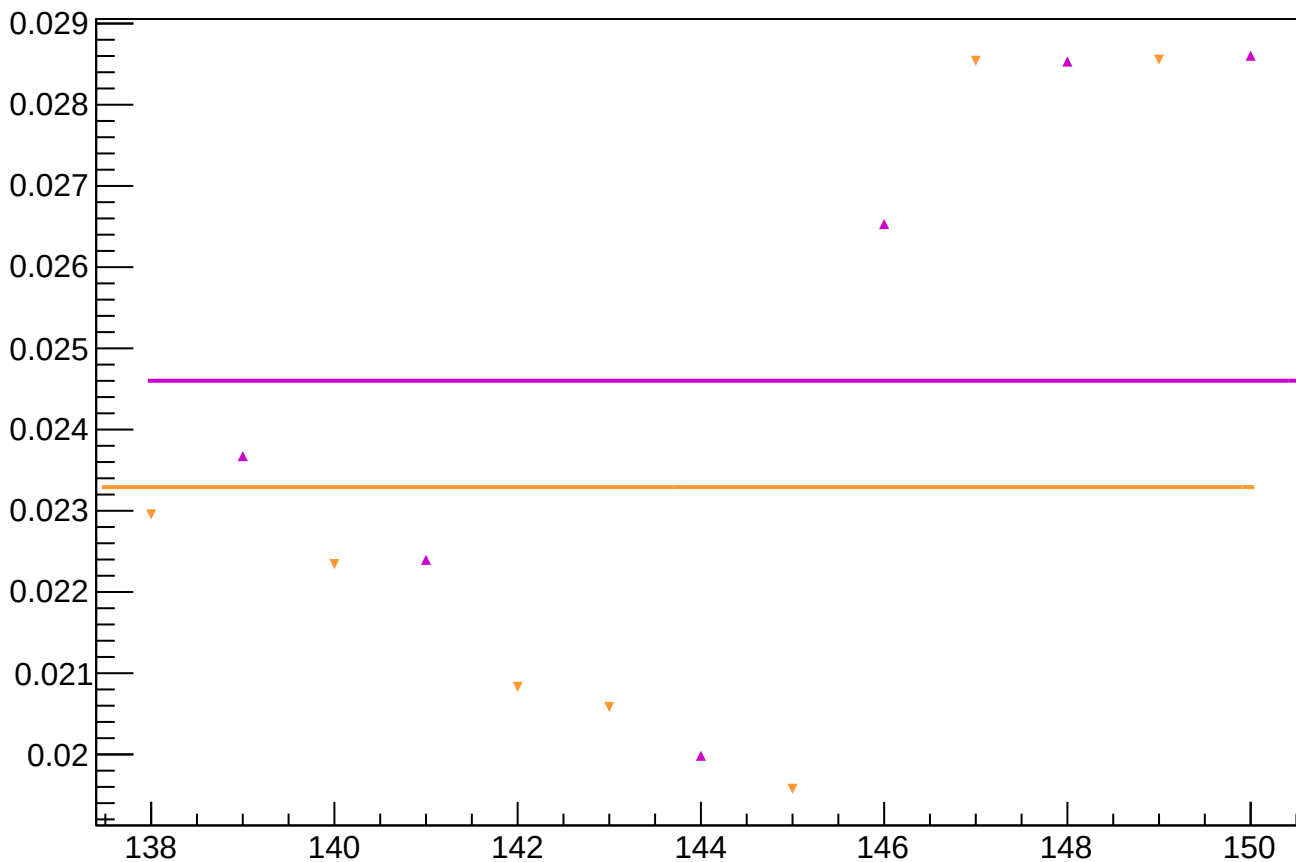
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38288.4/5

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 31669.9/6

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 70106.1/12

# yield\_atr2\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ :931003875.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.025+/-0.000  $\chi^2/\text{NDF}$ :798798552.2/5

Left: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 1788890153.3/12

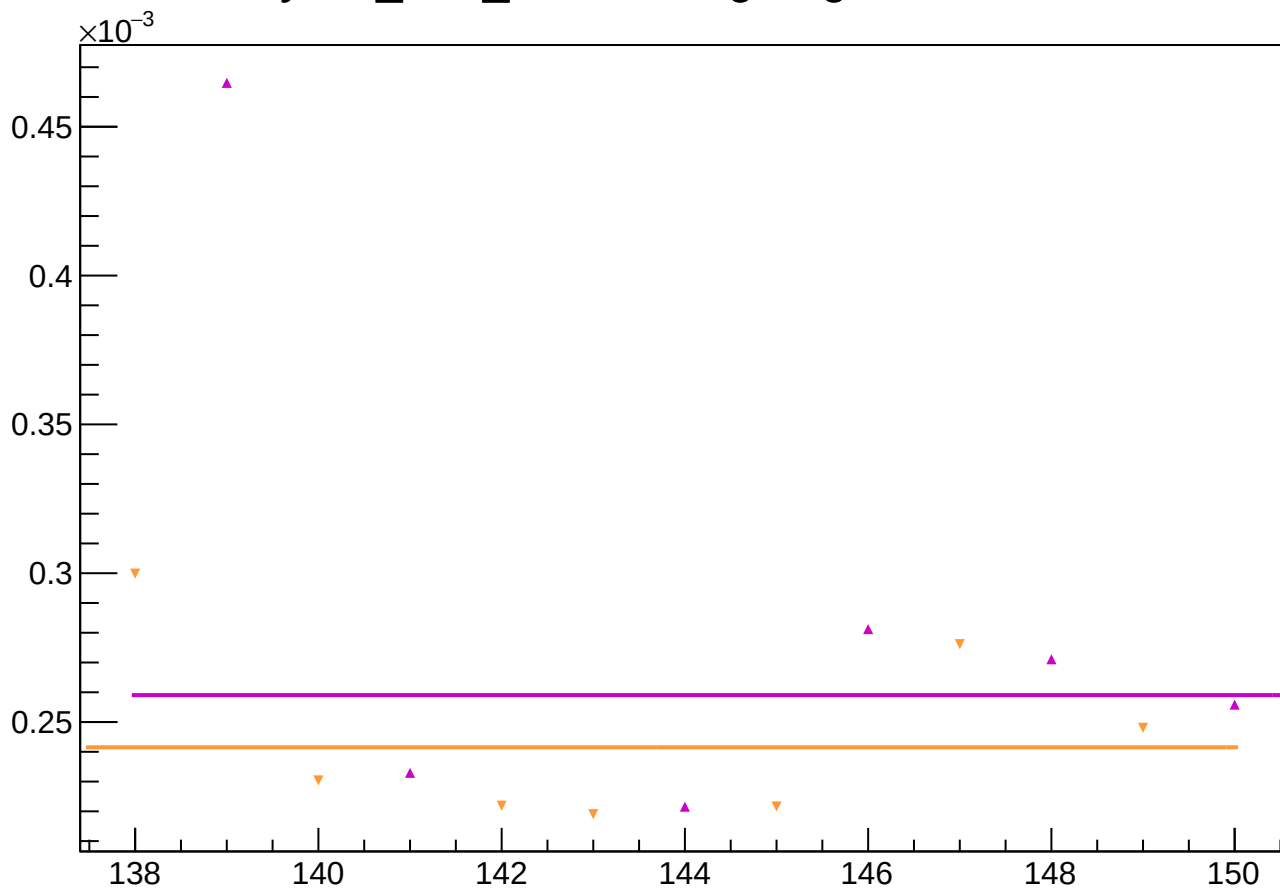
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.025+/-0.000  $\chi^2/\text{NDF}$ :798798552.2/5

Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ :931003875.8/6

All: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 1788890153.3/12

# yield\_atr2\_rms vs Slug, Sign Corrected

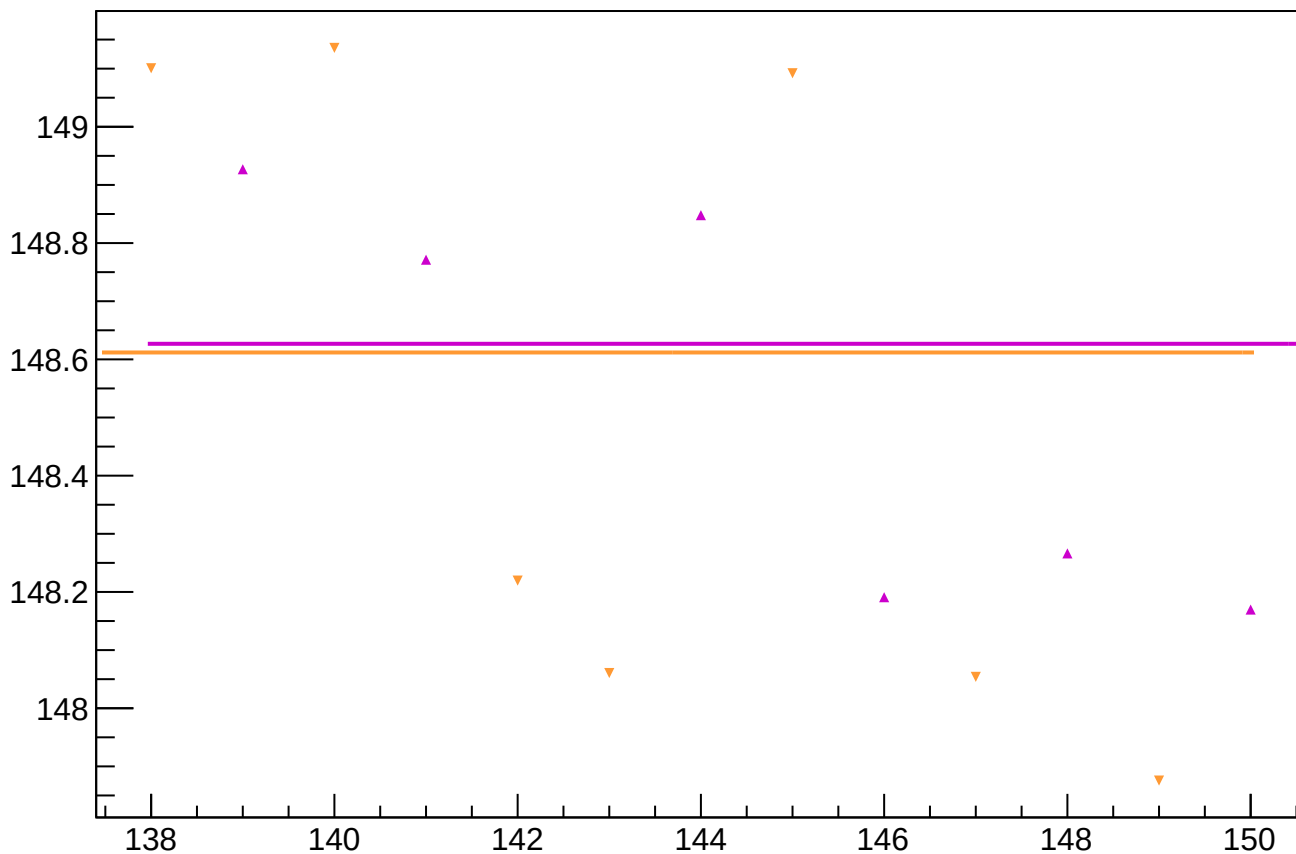


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :102662.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :350775.1/5

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 474601.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :350775.1/5  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :102662.1/6  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 474601.7/12



# yield\_bcm\_an\_ds\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 148.612+/-0.000  $\chi^2/\text{NDF}$ :12072638.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 148.627+/-0.000  $\chi^2/\text{NDF}$ :3478142.6/5

Left: 148.619+/-0.000  $\chi^2/\text{NDF}$ : 15555079.2/12

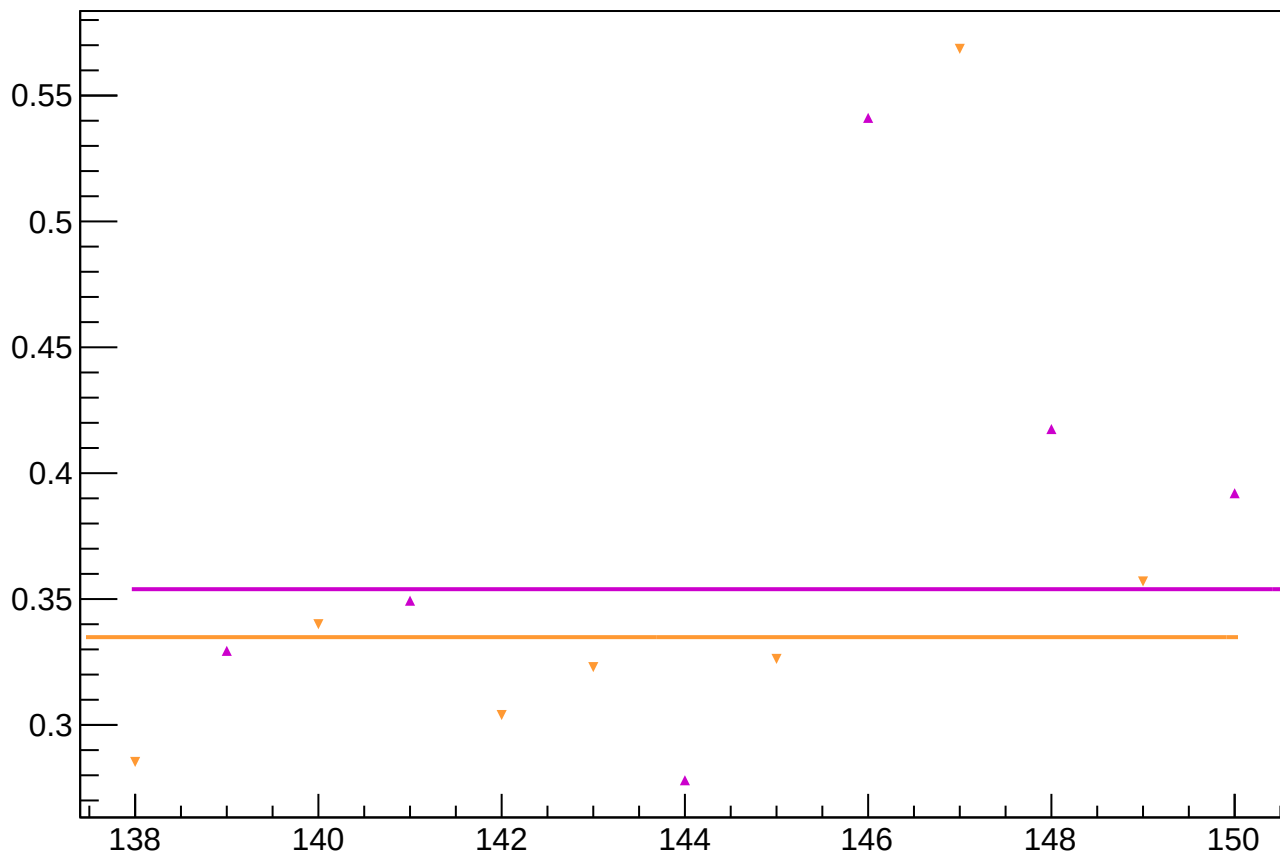
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 148.627+/-0.000  $\chi^2/\text{NDF}$ :3478142.6/5

Out: 148.612+/-0.000  $\chi^2/\text{NDF}$ :12072638.0/6

All: 148.619+/-0.000  $\chi^2/\text{NDF}$ : 15555079.2/12

# yield\_bcm\_an\_ds\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.335+/-0.000  $\chi^2/\text{NDF}$ :309269.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.354+/-0.000  $\chi^2/\text{NDF}$ :373835.1/5

Left: 0.344+/-0.000  $\chi^2/\text{NDF}$ : 697119.3/12

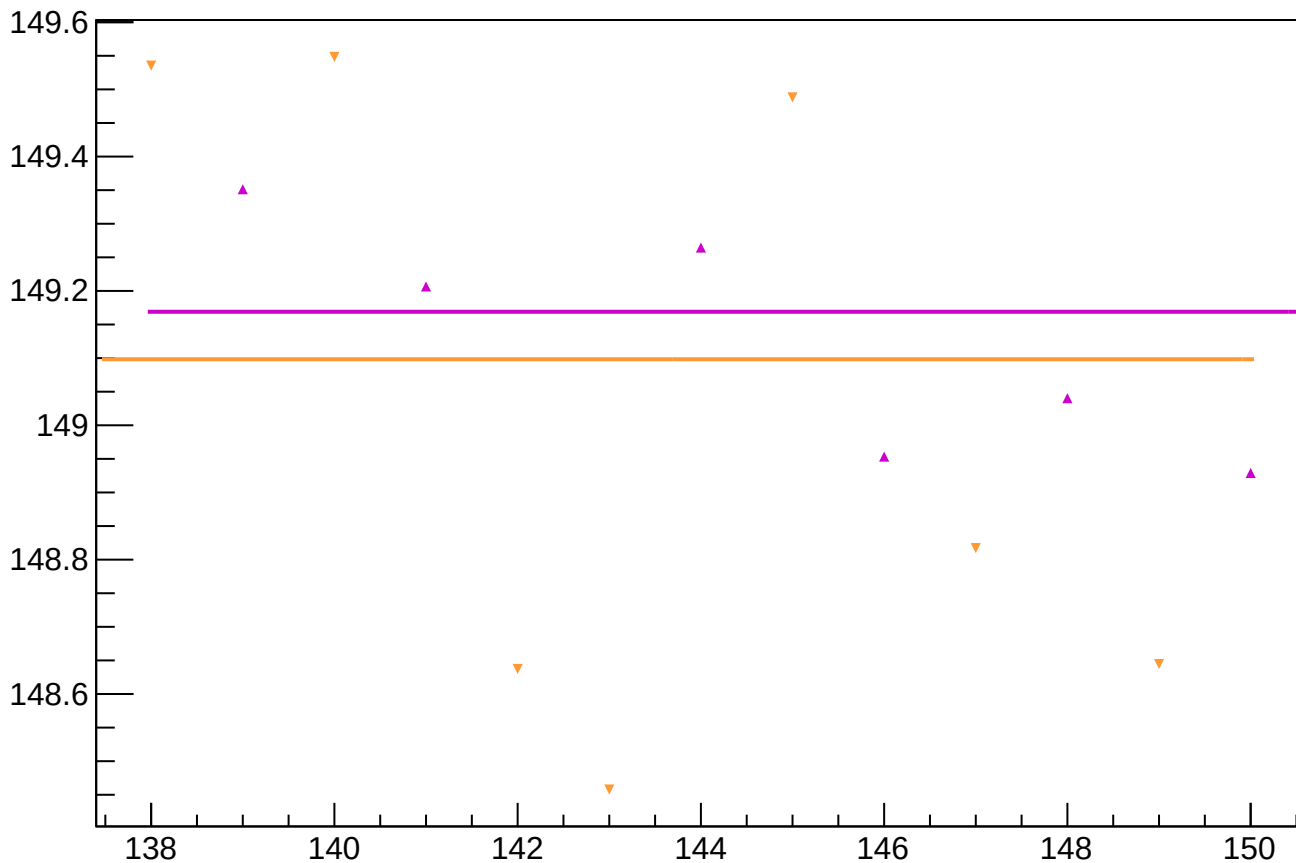
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.354+/-0.000  $\chi^2/\text{NDF}$ :373835.1/5

Out: 0.335+/-0.000  $\chi^2/\text{NDF}$ :309269.4/6

All: 0.344+/-0.000  $\chi^2/\text{NDF}$ : 697119.3/12

# yield\_bcm\_an\_ds3\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 149.098+/-0.000  $\chi^2/\text{NDF}$ : 8798142.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 149.169+/-0.000  $\chi^2/\text{NDF}$ : 822626.1/5

Left: 149.131+/-0.000  $\chi^2/\text{NDF}$ : 9715401.4/12

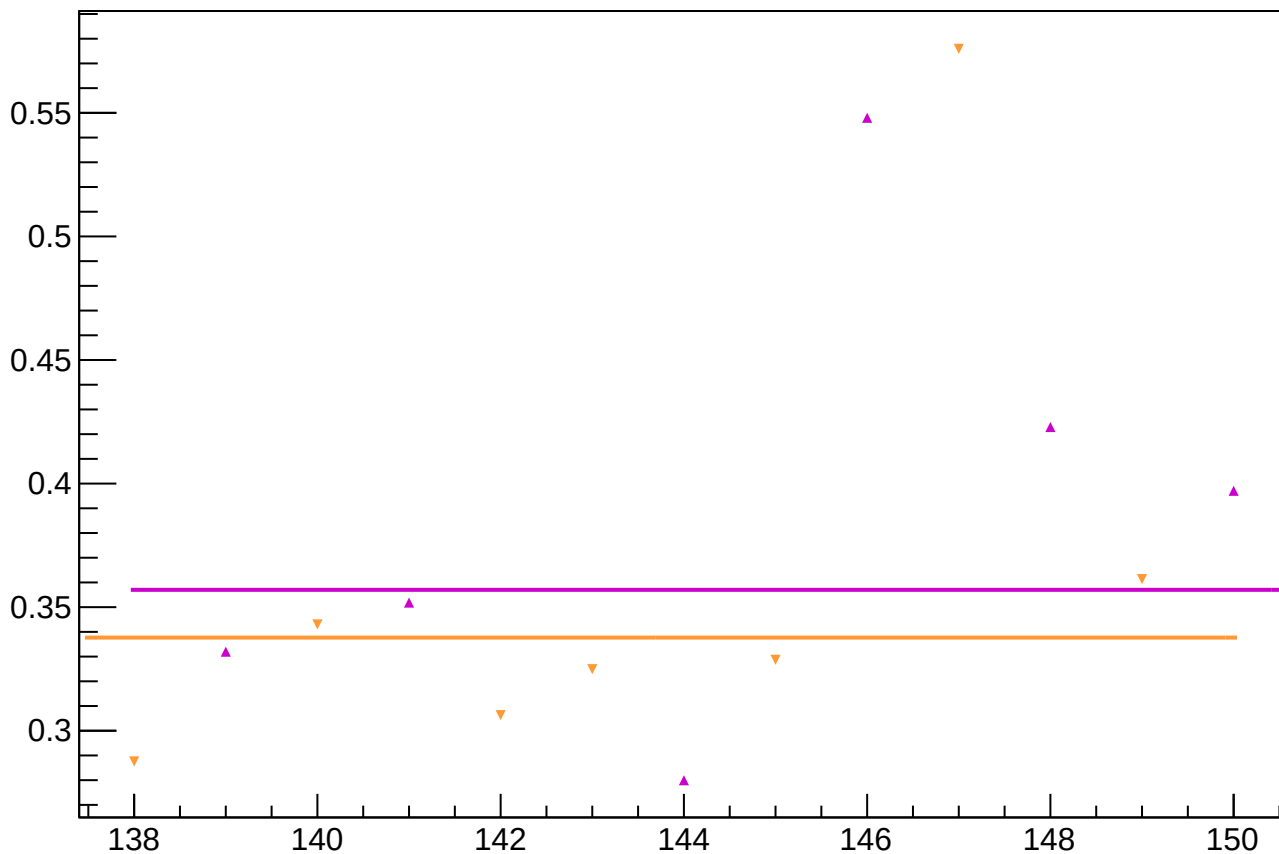
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 149.169+/-0.000  $\chi^2/\text{NDF}$ : 822626.1/5

Out: 149.098+/-0.000  $\chi^2/\text{NDF}$ : 8798142.8/6

All: 149.131+/-0.000  $\chi^2/\text{NDF}$ : 9715401.4/12

# yield\_bcm\_an\_ds3\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.338+/-0.000  $\chi^2/\text{NDF}$ :313826.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.357+/-0.000  $\chi^2/\text{NDF}$ :381743.4/5

Left: 0.347+/-0.000  $\chi^2/\text{NDF}$ : 709740.9/12

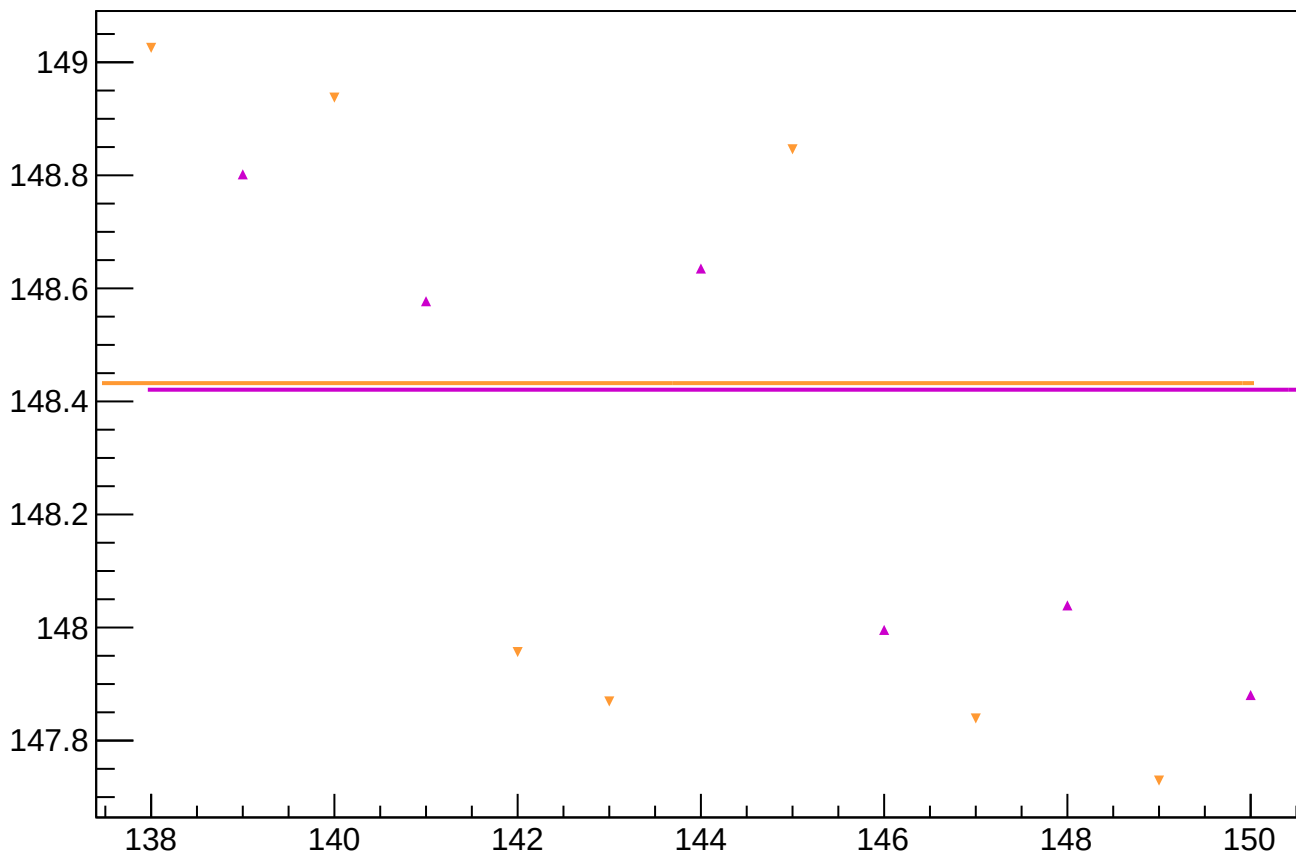
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.357+/-0.000  $\chi^2/\text{NDF}$ :381743.4/5

Out: 0.338+/-0.000  $\chi^2/\text{NDF}$ :313826.1/6

All: 0.347+/-0.000  $\chi^2/\text{NDF}$ : 709740.9/12

# yield\_bcm\_an\_us\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 148.432+/-0.000  $\chi^2/\text{NDF}$ :12649064.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 148.421+/-0.000  $\chi^2/\text{NDF}$ :4307563.4/5

Left: 148.427+/-0.000  $\chi^2/\text{NDF}$ : 16959233.9/12

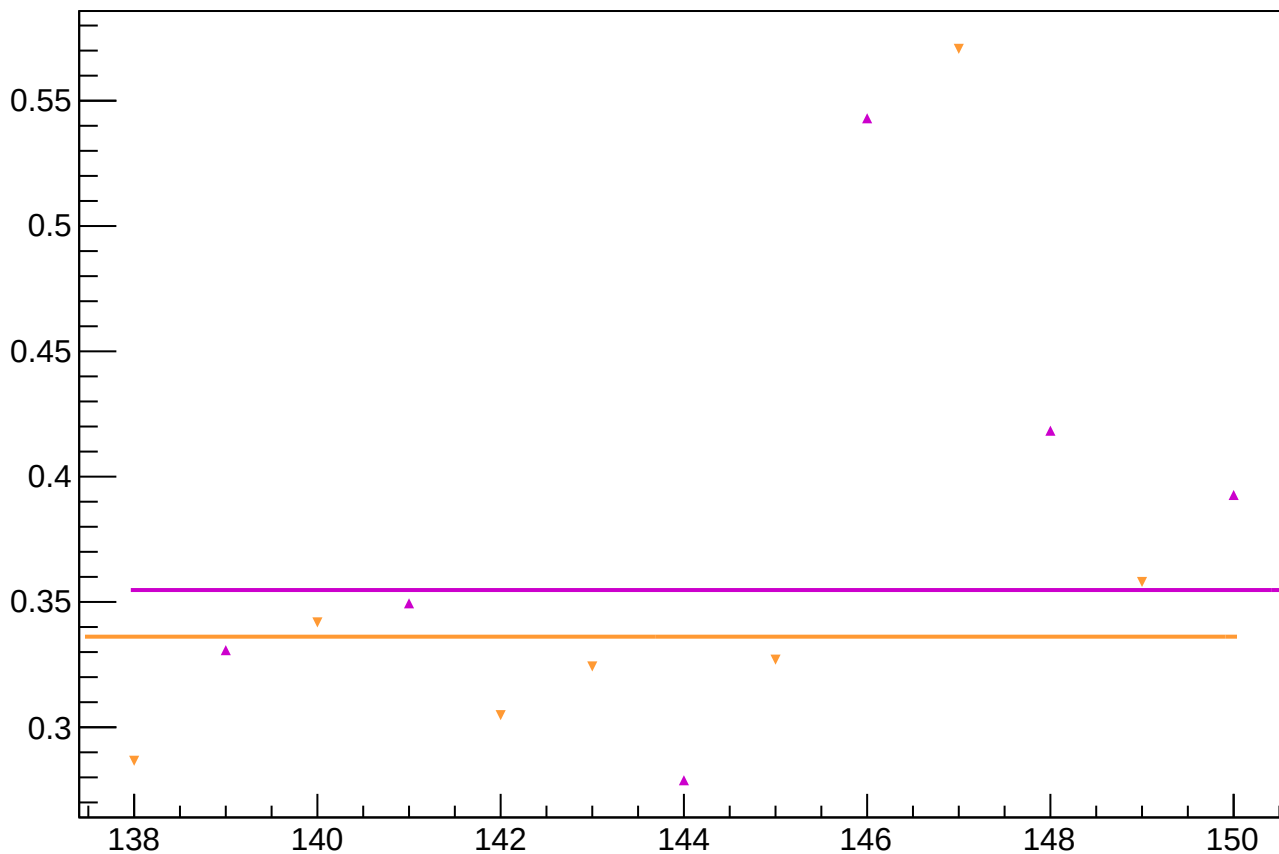
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 148.421+/-0.000  $\chi^2/\text{NDF}$ :4307563.4/5

Out: 148.432+/-0.000  $\chi^2/\text{NDF}$ :12649064.2/6

All: 148.427+/-0.000  $\chi^2/\text{NDF}$ : 16959233.9/12

# yield\_bcm\_an\_us\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.336+/-0.000  $\chi^2/\text{NDF}$ :308918.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.355+/-0.000  $\chi^2/\text{NDF}$ :373340.2/5

Left: 0.345+/-0.000  $\chi^2/\text{NDF}$ : 695552.2/12

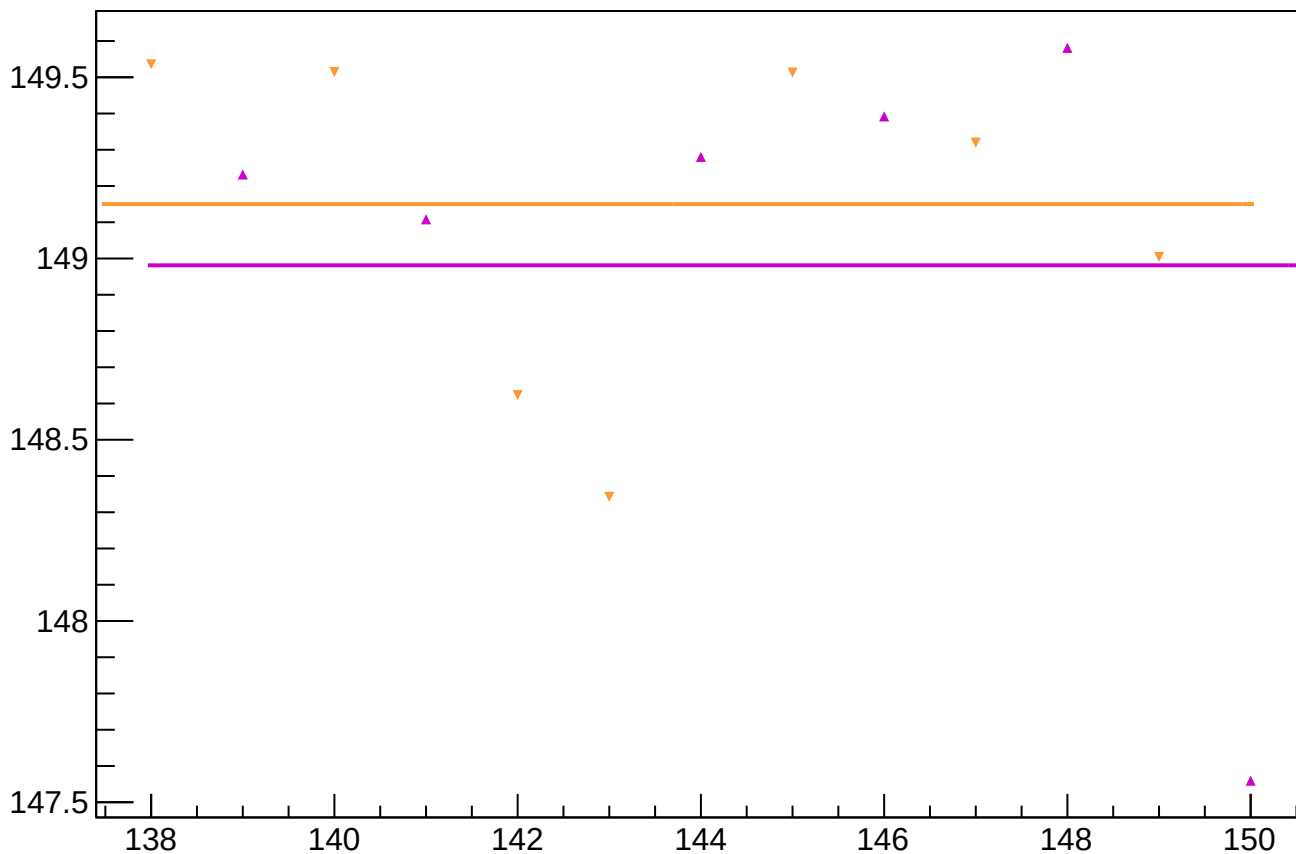
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.355+/-0.000  $\chi^2/\text{NDF}$ :373340.2/5

Out: 0.336+/-0.000  $\chi^2/\text{NDF}$ :308918.5/6

All: 0.345+/-0.000  $\chi^2/\text{NDF}$ : 695552.2/12

# yield\_bcm\_dg\_us\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 149.150+/-0.000  $\chi^2/\text{NDF}$ : 7438925.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 148.981+/-0.000  $\chi^2/\text{NDF}$ : 14129035.2/5

Left: 149.071+/-0.000  $\chi^2/\text{NDF}$ : 22046736.7/12

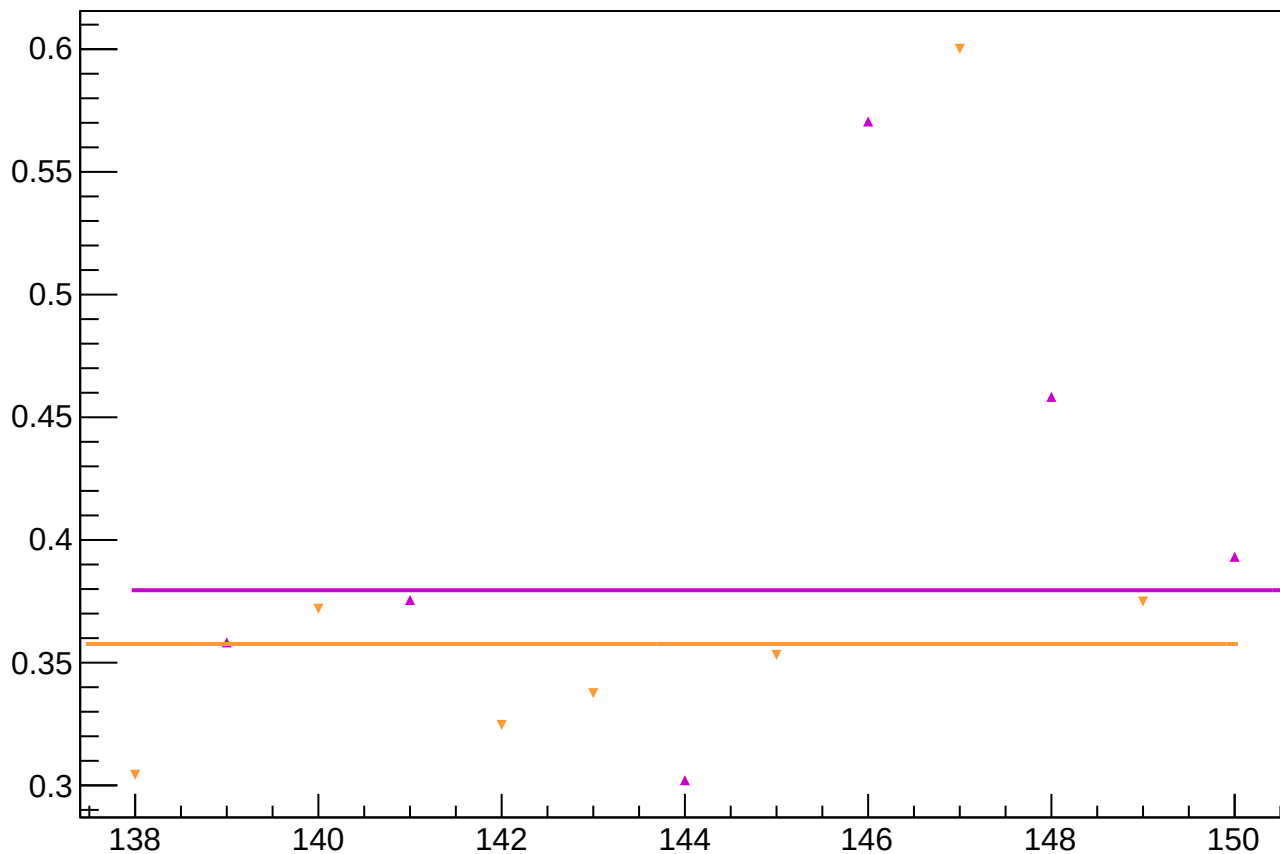
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 148.981+/-0.000  $\chi^2/\text{NDF}$ : 14129035.2/5

Out: 149.150+/-0.000  $\chi^2/\text{NDF}$ : 7438925.1/6

All: 149.071+/-0.000  $\chi^2/\text{NDF}$ : 22046736.7/12

# yield\_bcm\_dg\_us\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.358+/-0.000  $\chi^2/\text{NDF}$ :300401.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.380+/-0.000  $\chi^2/\text{NDF}$ :337192.1/5

Left: 0.368+/-0.000  $\chi^2/\text{NDF}$ : 653713.4/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

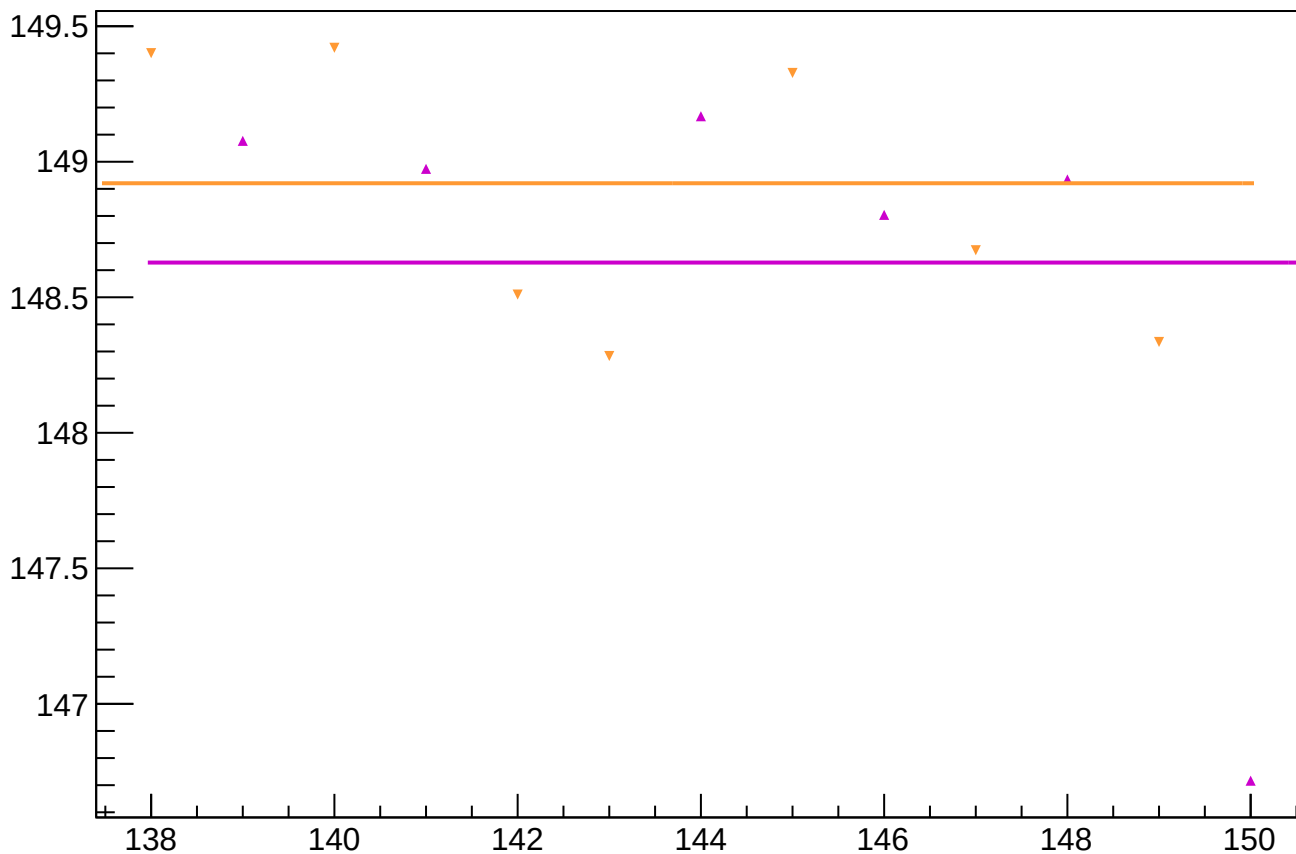
In: 0.380+/-0.000  $\chi^2/\text{NDF}$ :337192.1/5

Out: 0.358+/-0.000  $\chi^2/\text{NDF}$ :300401.7/6

All: 0.368+/-0.000  $\chi^2/\text{NDF}$ : 653713.4/12



# yield\_bcm\_dg\_ds\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 148.921+/-0.000  $\chi^2/\text{NDF}$ : 8929637.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 148.628+/-0.000  $\chi^2/\text{NDF}$ : 24899702.1/5

Left: 148.784+/-0.000  $\chi^2/\text{NDF}$ : 35252378.2/12

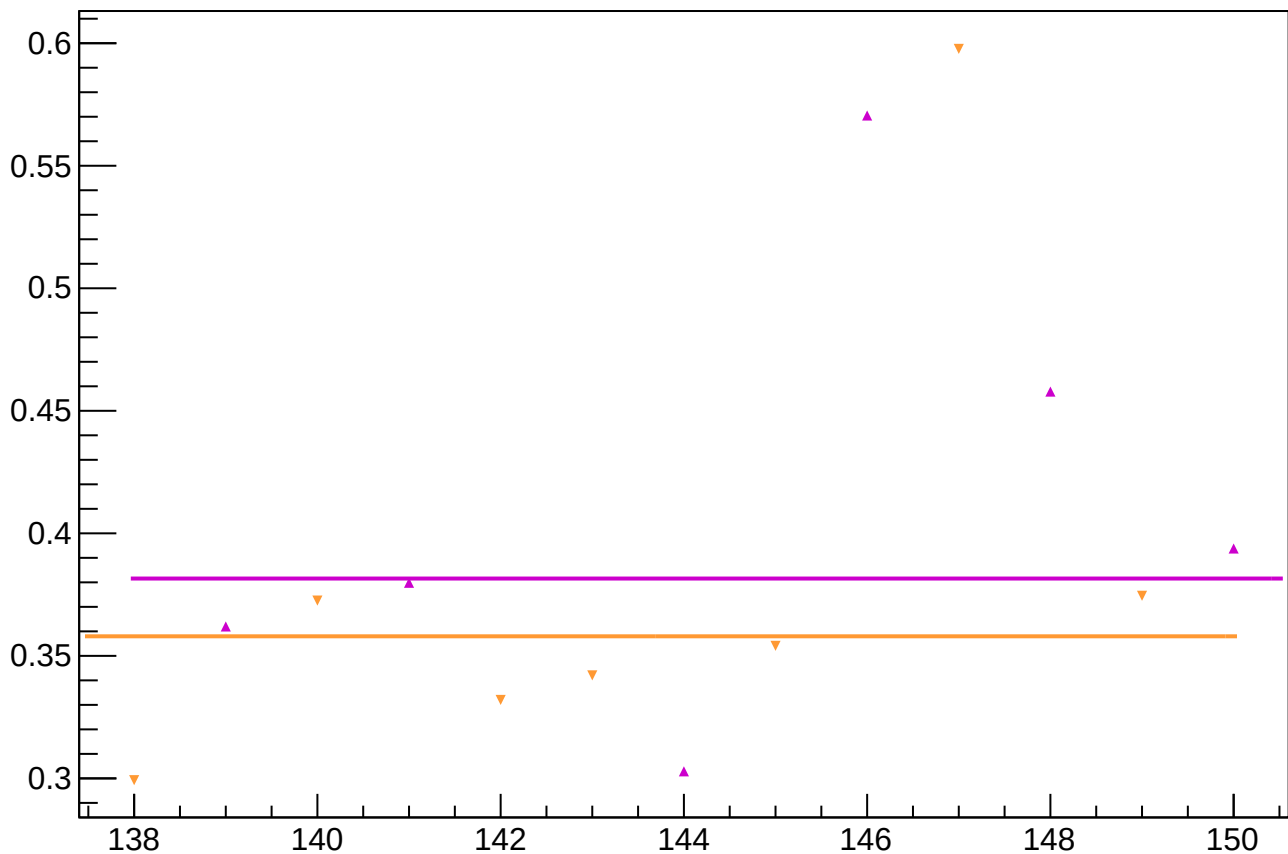
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 148.628+/-0.000  $\chi^2/\text{NDF}$ : 24899702.1/5

Out: 148.921+/-0.000  $\chi^2/\text{NDF}$ : 8929637.6/6

All: 148.784+/-0.000  $\chi^2/\text{NDF}$ : 35252378.2/12

# yield\_bcm\_dg\_ds\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.358+/-0.000  $\chi^2/\text{NDF}$ :301314.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.382+/-0.000  $\chi^2/\text{NDF}$ :330772.5/5

Left: 0.369+/-0.000  $\chi^2/\text{NDF}$ : 650555.1/12

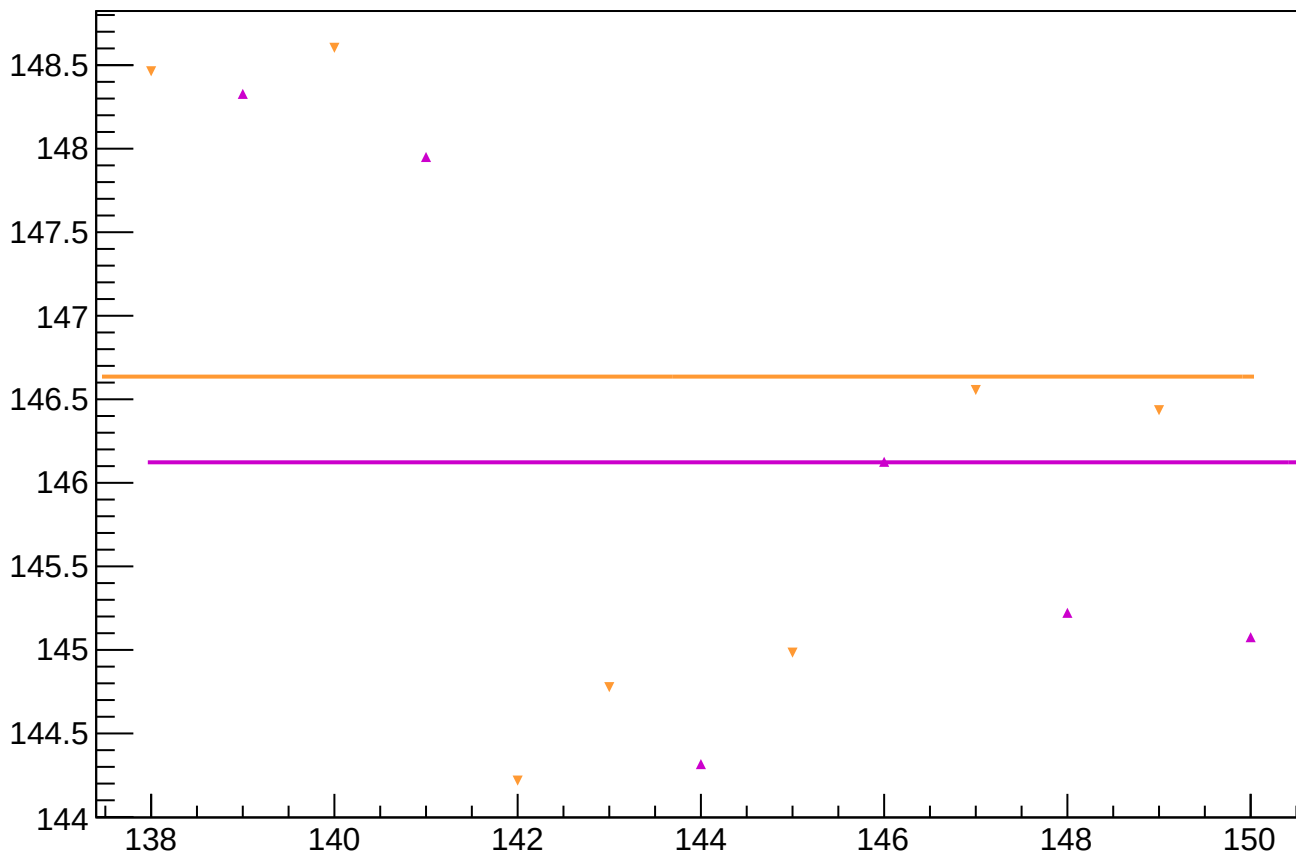
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.382+/-0.000  $\chi^2/\text{NDF}$ :330772.5/5

Out: 0.358+/-0.000  $\chi^2/\text{NDF}$ :301314.7/6

All: 0.369+/-0.000  $\chi^2/\text{NDF}$ : 650555.1/12

# yield\_cav4bQ\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 146.636+/-0.000  $\chi^2/\text{NDF}$ :21627060.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 146.123+/-0.000  $\chi^2/\text{NDF}$ :19945827.9/5

Left: 146.376+/-0.000  $\chi^2/\text{NDF}$ : 42647183.3/12

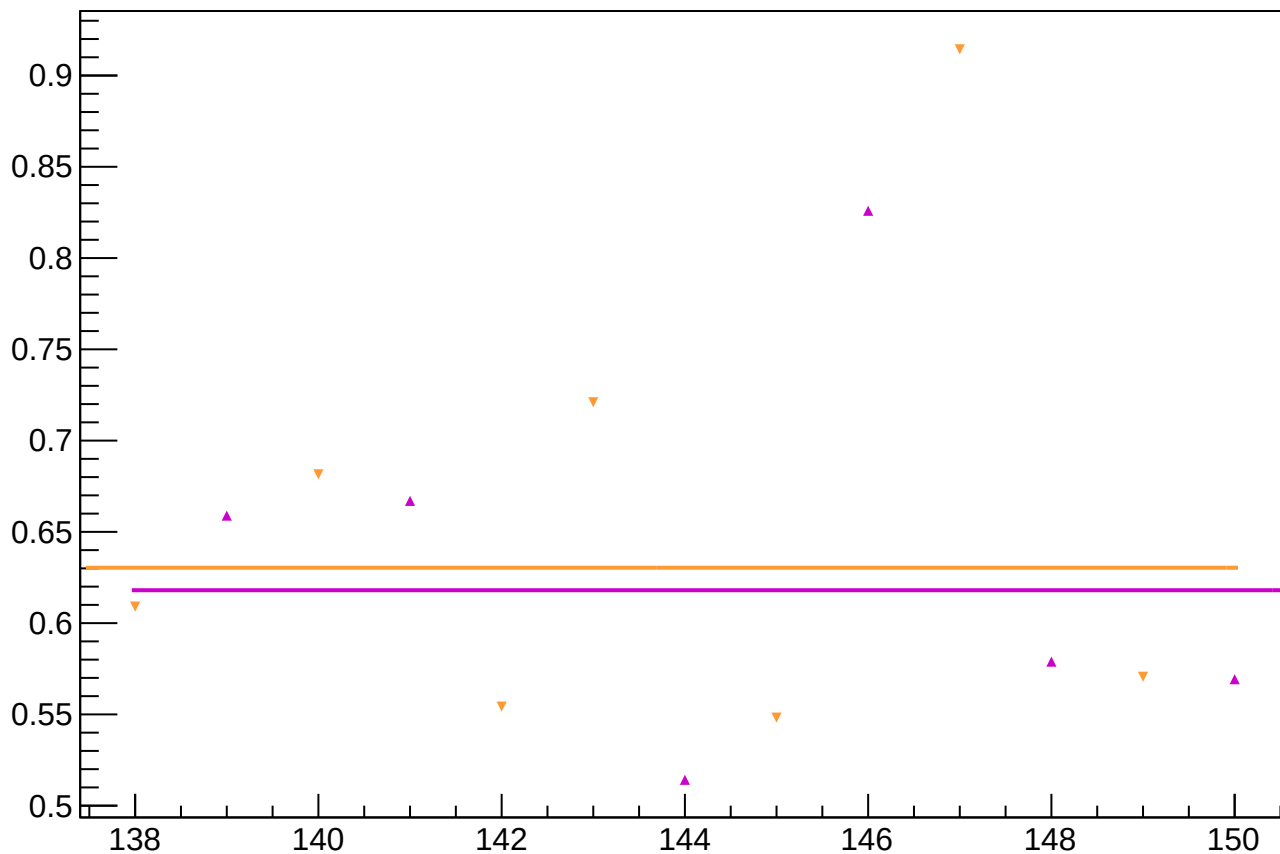
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 146.123+/-0.000  $\chi^2/\text{NDF}$ :19945827.9/5

Out: 146.636+/-0.000  $\chi^2/\text{NDF}$ :21627060.1/6

All: 146.376+/-0.000  $\chi^2/\text{NDF}$ : 42647183.3/12

# yield\_cav4bQ\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.630+/-0.000  $\chi^2/\text{NDF}$ :157923.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.618+/-0.000  $\chi^2/\text{NDF}$ :128680.5/5

Left: 0.624+/-0.000  $\chi^2/\text{NDF}$ : 287843.7/12

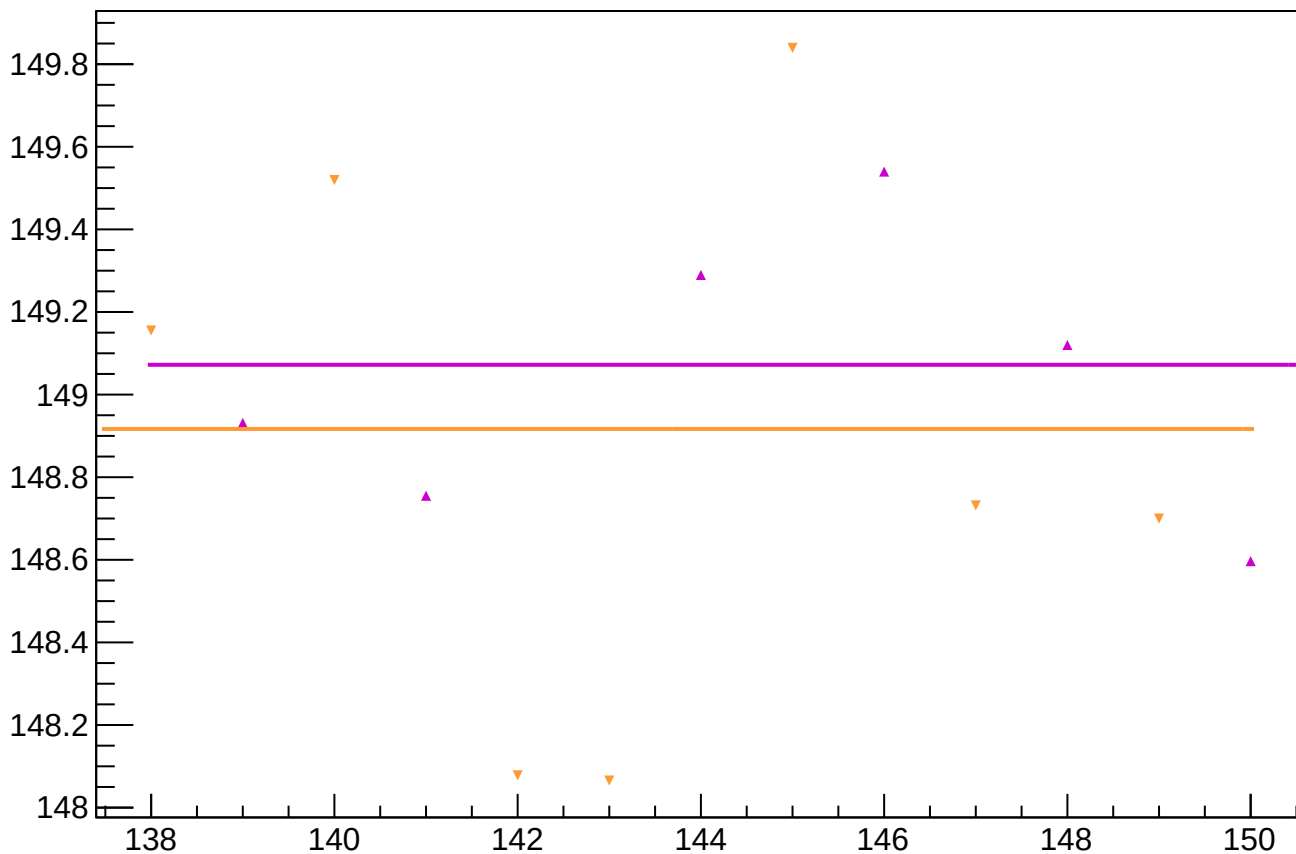
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.618+/-0.000  $\chi^2/\text{NDF}$ :128680.5/5

Out: 0.630+/-0.000  $\chi^2/\text{NDF}$ :157923.0/6

All: 0.624+/-0.000  $\chi^2/\text{NDF}$ : 287843.7/12

# yield\_cav4cQ\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 148.917+/-0.000  $\chi^2/\text{NDF}$ : 6722882.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 149.072+/-0.000  $\chi^2/\text{NDF}$ : 1364912.1/5

Left: 148.990+/-0.000  $\chi^2/\text{NDF}$ : 8252841.5/12

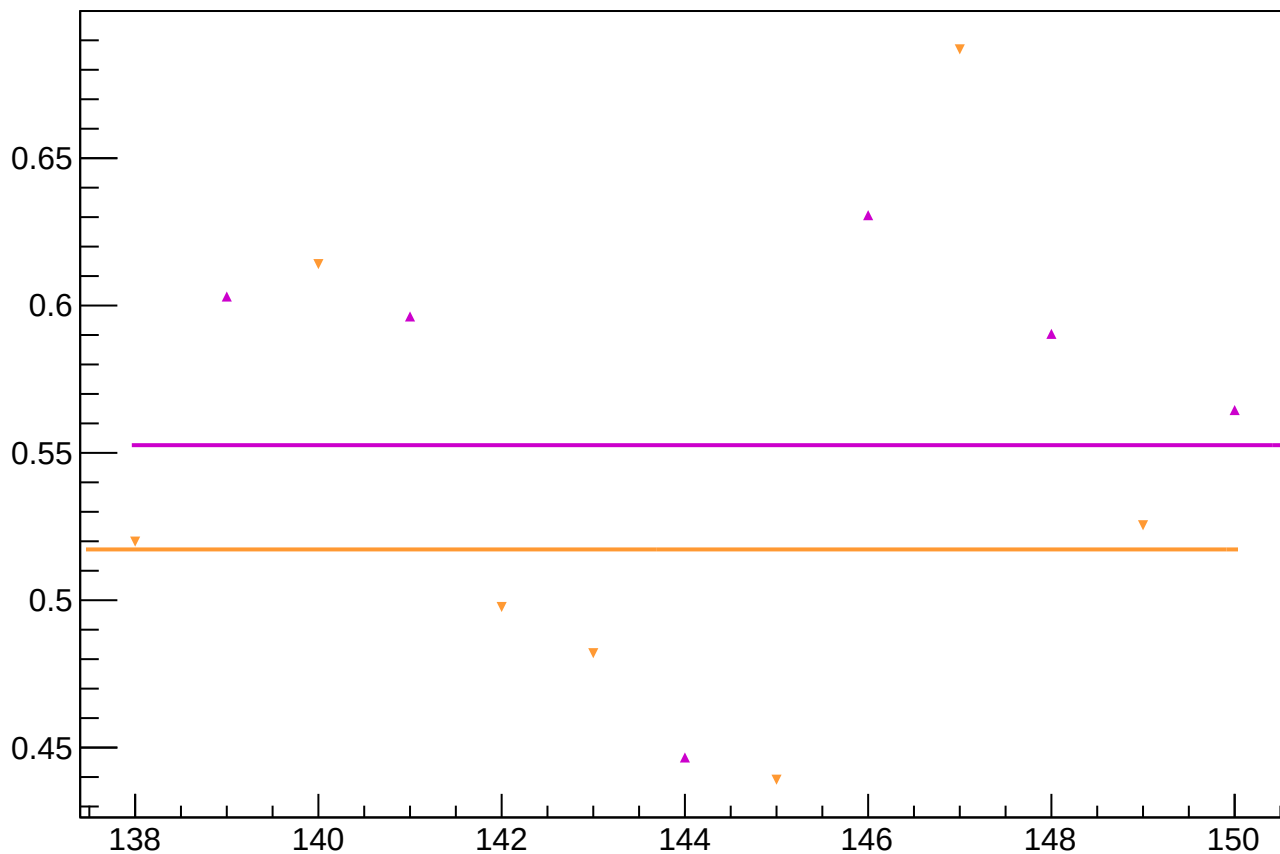
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 149.072+/-0.000  $\chi^2/\text{NDF}$ : 1364912.1/5

Out: 148.917+/-0.000  $\chi^2/\text{NDF}$ : 6722882.3/6

All: 148.990+/-0.000  $\chi^2/\text{NDF}$ : 8252841.5/12

# yield\_cav4cQ\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.517+/-0.000  $\chi^2/\text{NDF}$ :162676.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.553+/-0.000  $\chi^2/\text{NDF}$ :124717.8/5

Left: 0.534+/-0.000  $\chi^2/\text{NDF}$ : 304533.0/12

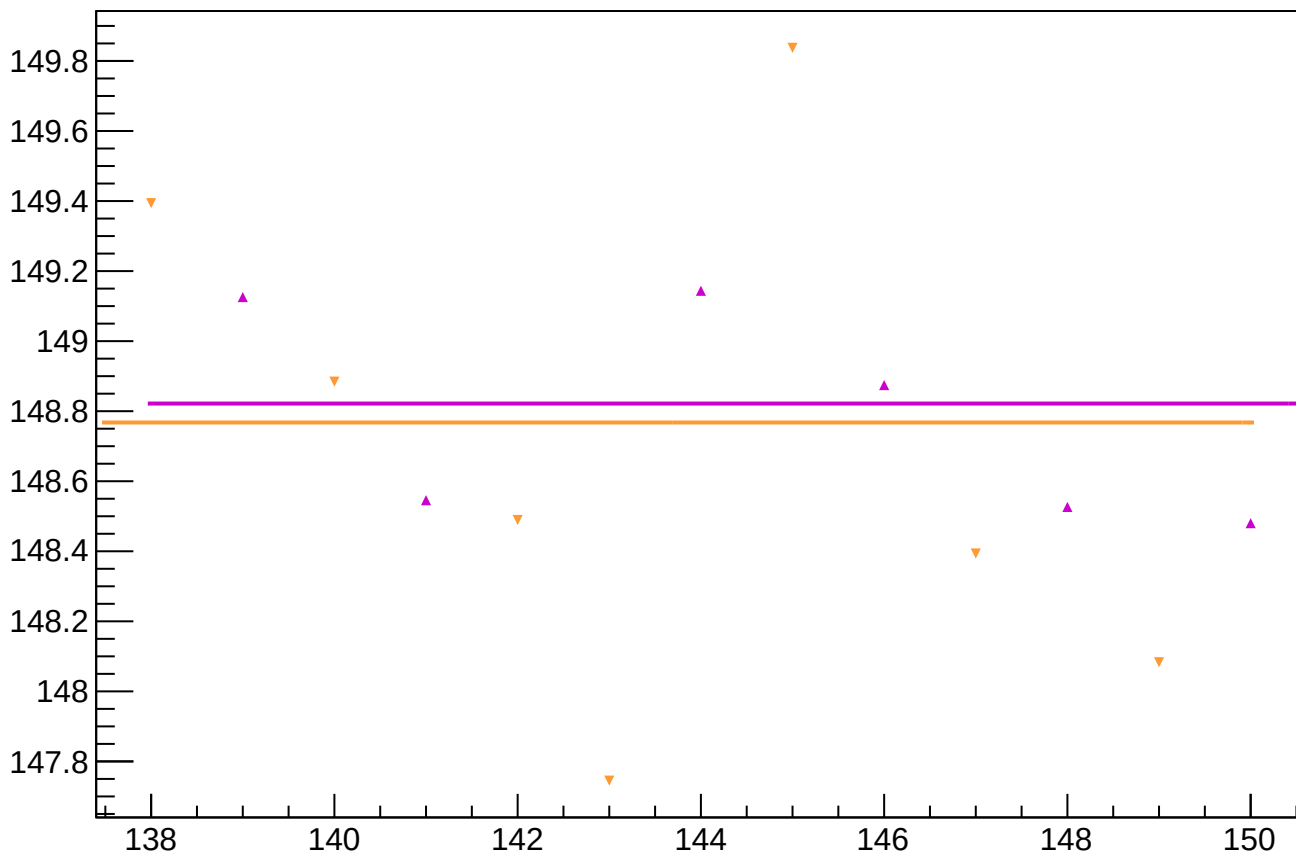
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.553+/-0.000  $\chi^2/\text{NDF}$ :124717.8/5

Out: 0.517+/-0.000  $\chi^2/\text{NDF}$ :162676.3/6

All: 0.534+/-0.000  $\chi^2/\text{NDF}$ : 304533.0/12

# yield\_cav4dQ\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 148.768+/-0.000  $\chi^2/\text{NDF}$ :16211298.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 148.822+/-0.000  $\chi^2/\text{NDF}$ :2415243.5/5

Left: 148.793+/-0.000  $\chi^2/\text{NDF}$ : 18669380.5/12

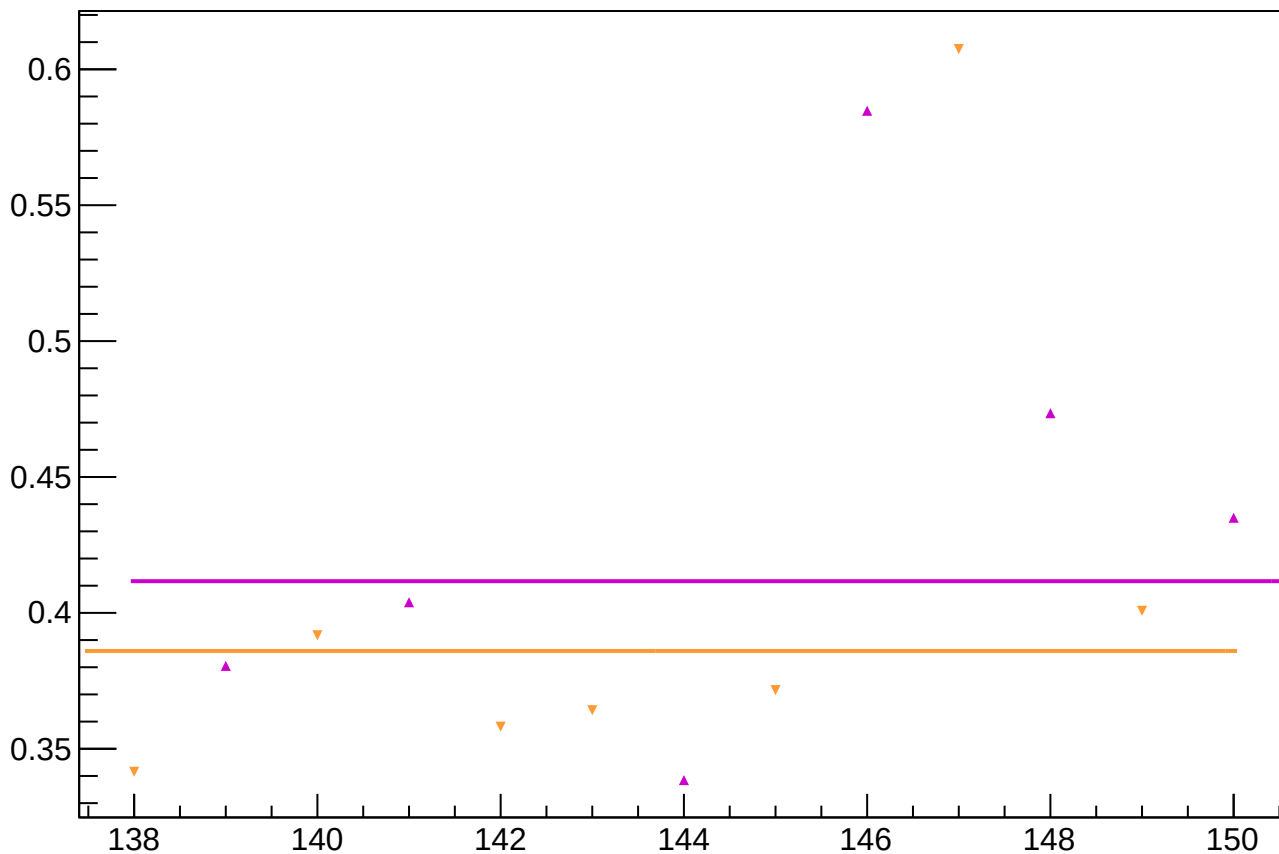
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 148.822+/-0.000  $\chi^2/\text{NDF}$ :2415243.5/5

Out: 148.768+/-0.000  $\chi^2/\text{NDF}$ :16211298.6/6

All: 148.793+/-0.000  $\chi^2/\text{NDF}$ : 18669380.5/12

# yield\_cav4dQ\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.386+/-0.000  $\chi^2/\text{NDF}$ :234582.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.412+/-0.000  $\chi^2/\text{NDF}$ :259857.9/5

Left: 0.398+/-0.000  $\chi^2/\text{NDF}$ : 513753.3/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

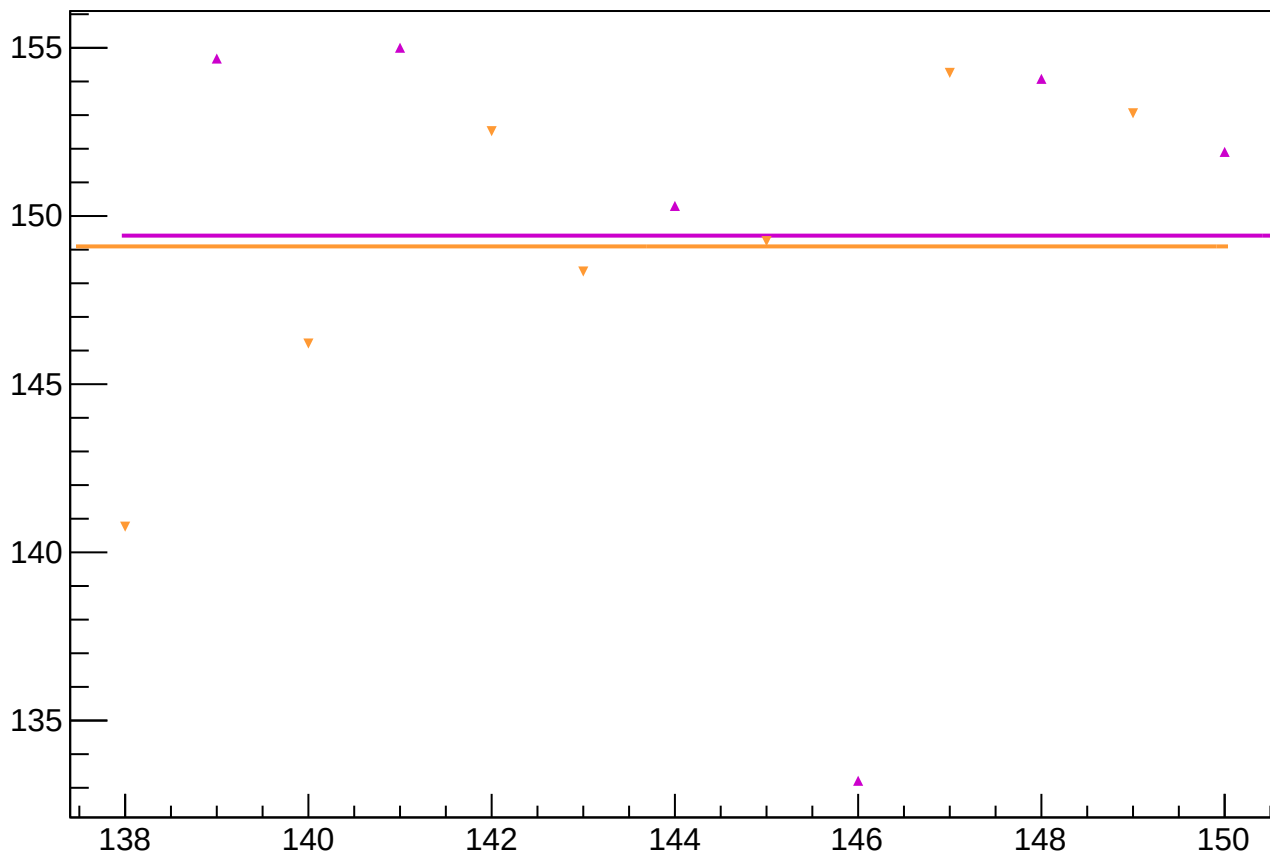
In: 0.412+/-0.000  $\chi^2/\text{NDF}$ :259857.9/5

Out: 0.386+/-0.000  $\chi^2/\text{NDF}$ :234582.4/6

All: 0.398+/-0.000  $\chi^2/\text{NDF}$ : 513753.3/12



# yield\_bcm0l02\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 149.096+/-0.000  $\chi^2/\text{NDF}$ :96353205.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 149.417+/-0.000  $\chi^2/\text{NDF}$ :291057376.5/5

Left: 149.252+/-0.000  $\chi^2/\text{NDF}$ : 387663336.0/12

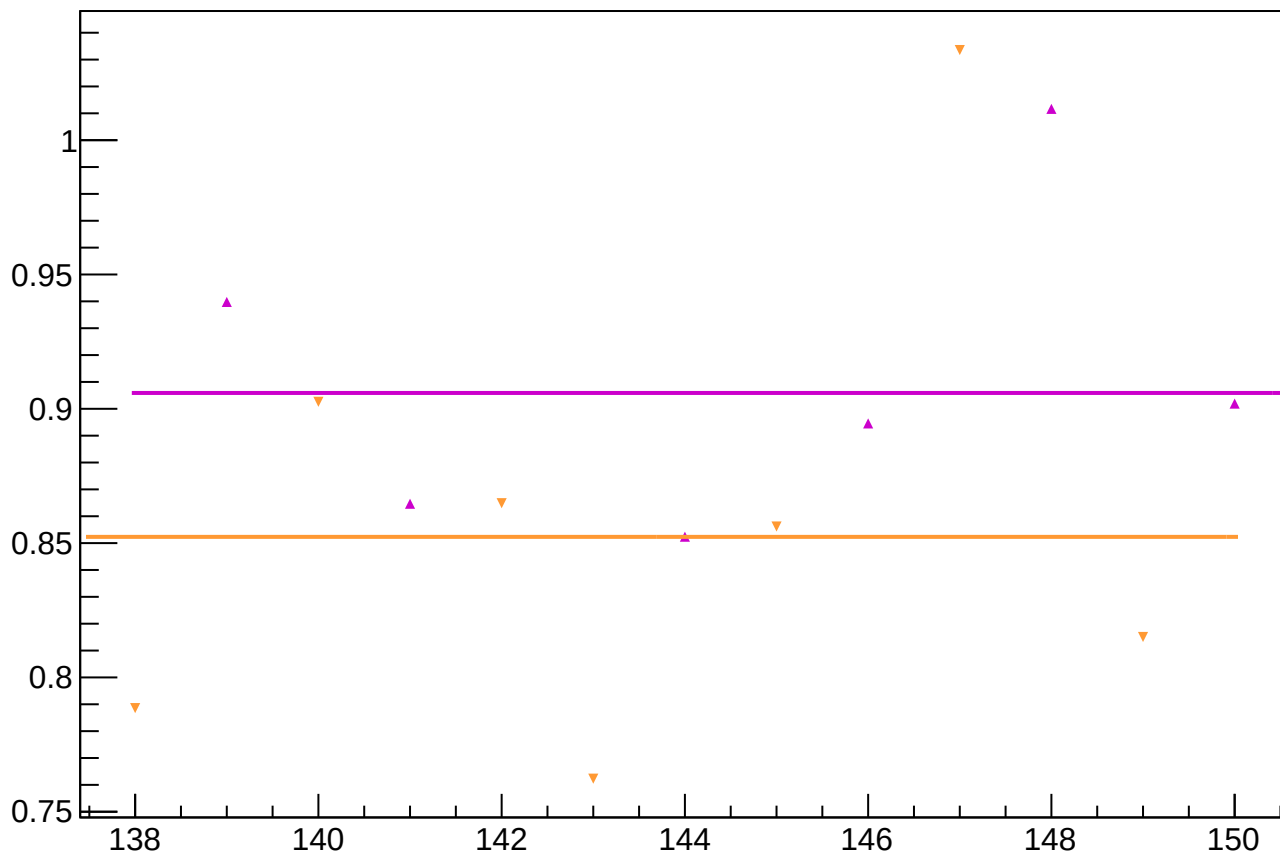
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 149.417+/-0.000  $\chi^2/\text{NDF}$ :291057376.5/5

Out: 149.096+/-0.000  $\chi^2/\text{NDF}$ :96353205.2/6

All: 149.252+/-0.000  $\chi^2/\text{NDF}$ : 387663336.0/12

# yield\_bcm0l02\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.852+/-0.000  $\chi^2/\text{NDF}$ : 67543.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.906+/-0.000  $\chi^2/\text{NDF}$ : 25667.1/5

Left: 0.878+/-0.000  $\chi^2/\text{NDF}$ : 107331.1/12

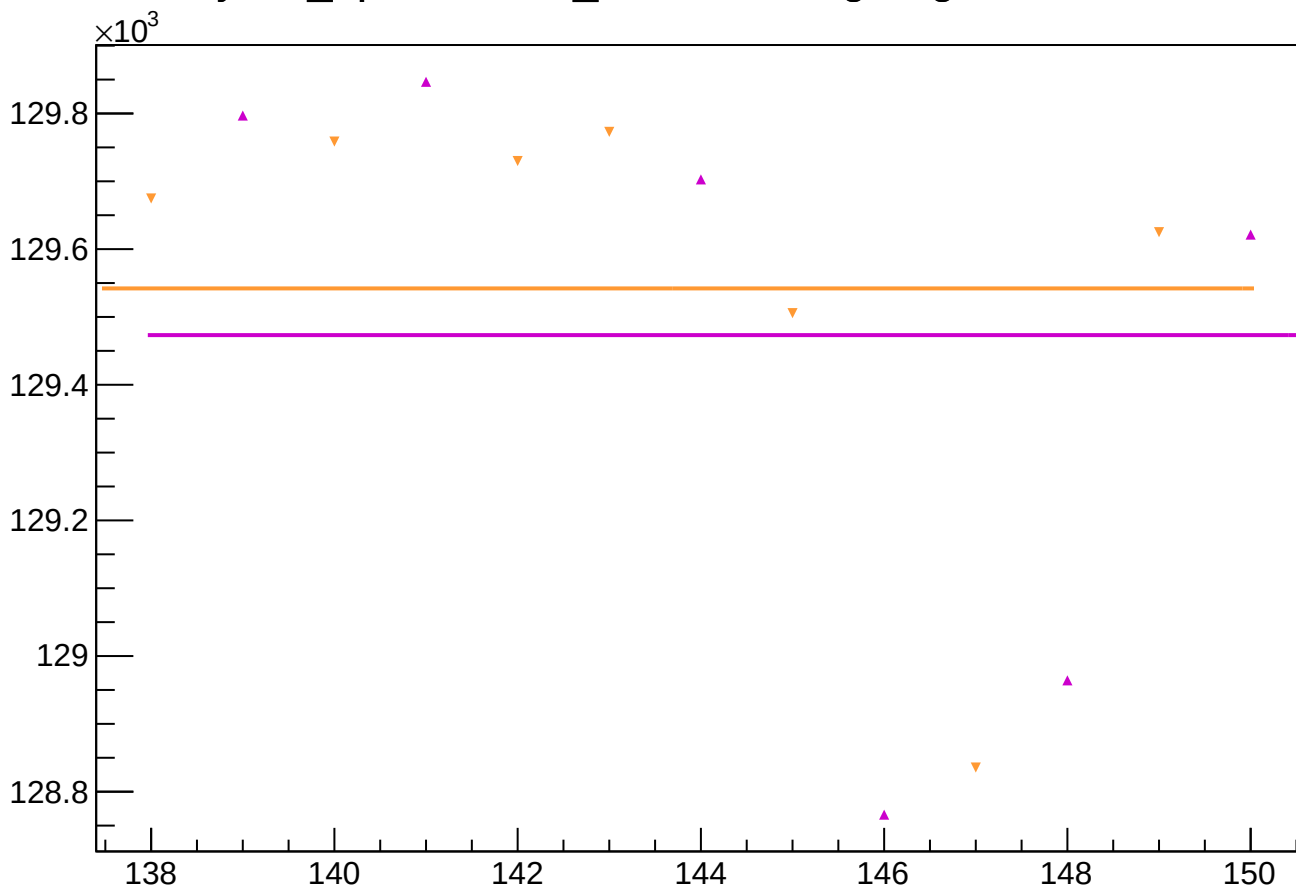
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.906+/-0.000  $\chi^2/\text{NDF}$ : 25667.1/5

Out: 0.852+/-0.000  $\chi^2/\text{NDF}$ : 67543.7/6

All: 0.878+/-0.000  $\chi^2/\text{NDF}$ : 107331.1/12

# yield\_bpm2i01WS\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 129542.069 $\pm$ 0.076  $\chi^2$ /NDF:18677495.1/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 129473.216 $\pm$ 0.079  $\chi^2$ /NDF:27281979.3/5

Left: 129508.840 $\pm$ 0.055  $\chi^2$ /NDF: 46350510.8/12

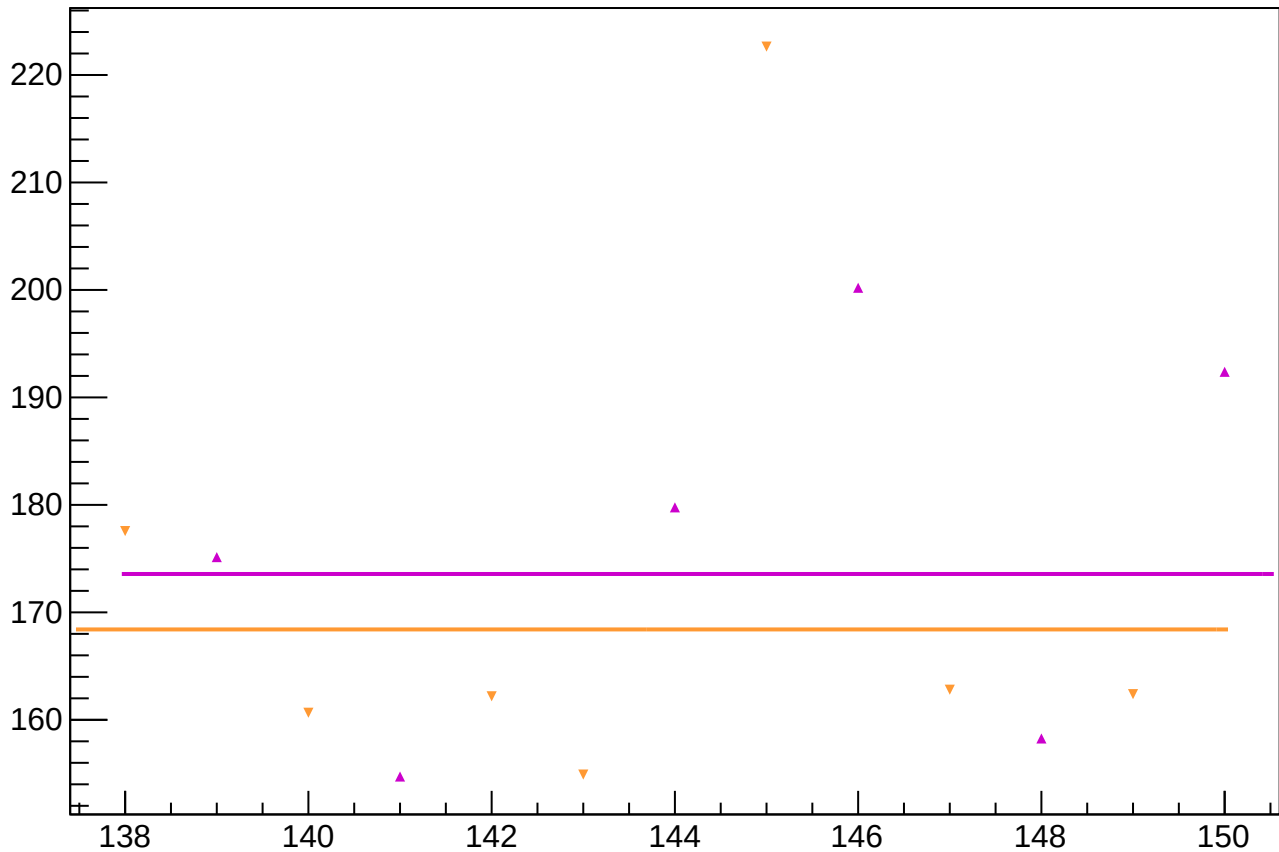
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 129473.216 $\pm$ 0.079  $\chi^2$ /NDF:27281979.3/5

Out: 129542.069 $\pm$ 0.076  $\chi^2$ /NDF:18677495.1/6

All: 129508.840 $\pm$ 0.055  $\chi^2$ /NDF: 46350510.8/12

# yield\_bpm2i01WS\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 168.411+/-0.054  $\chi^2/\text{NDF}$ :113466.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 173.571+/-0.056  $\chi^2/\text{NDF}$ :86025.0/5

Left: 170.901+/-0.039  $\chi^2/\text{NDF}$ : 203882.6/12

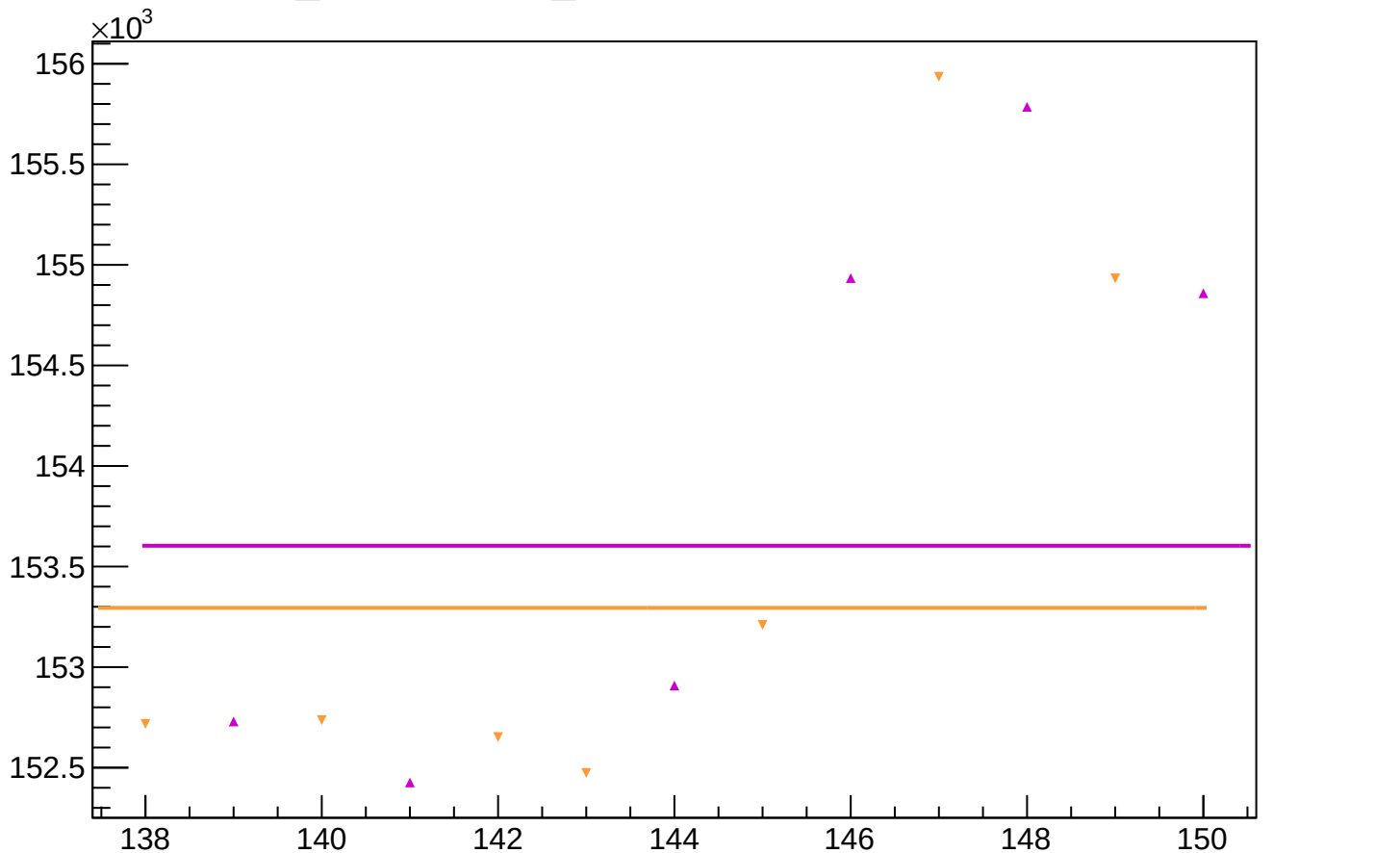
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 173.571+/-0.056  $\chi^2/\text{NDF}$ :86025.0/5

Out: 168.411+/-0.054  $\chi^2/\text{NDF}$ :113466.4/6

All: 170.901+/-0.039  $\chi^2/\text{NDF}$ : 203882.6/12

# yield\_bpm0i07WS\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 153294.725+/-0.086  $\chi^2/\text{NDF}$ :163551164.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 153603.522+/-0.092  $\chi^2/\text{NDF}$ :183370391.0/5

Left: 153439.394+/-0.063  $\chi^2/\text{NDF}$ : 352940878.5/12

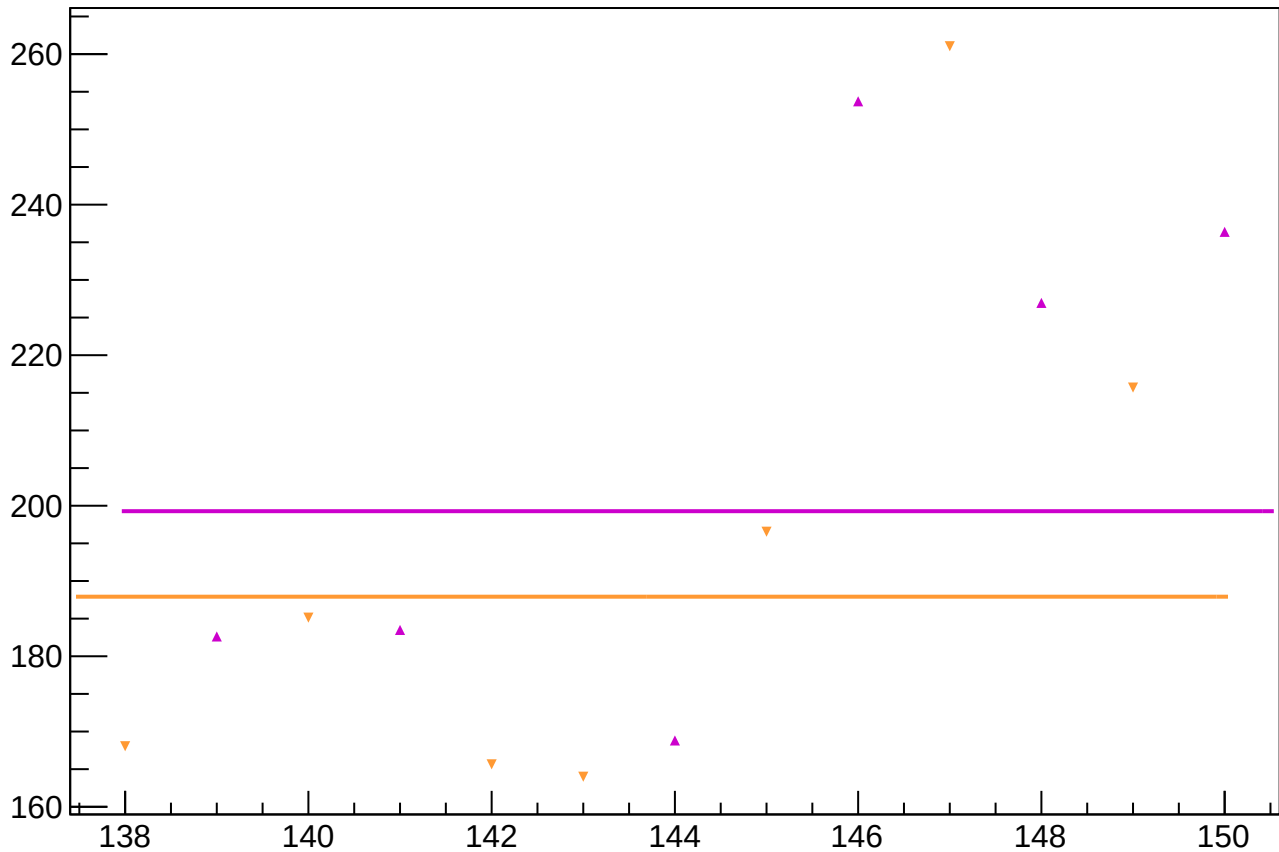
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 153603.522+/-0.092  $\chi^2/\text{NDF}$ :183370391.0/5

Out: 153294.725+/-0.086  $\chi^2/\text{NDF}$ :163551164.7/6

All: 153439.394+/-0.063  $\chi^2/\text{NDF}$ : 352940878.5/12

# yield\_bpm0i07WS\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 187.915+/-0.061  $\chi^2/\text{NDF}$ :214321.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 199.275+/-0.065  $\chi^2/\text{NDF}$ :217318.5/5

Left: 193.237+/-0.044  $\chi^2/\text{NDF}$ : 447933.2/12

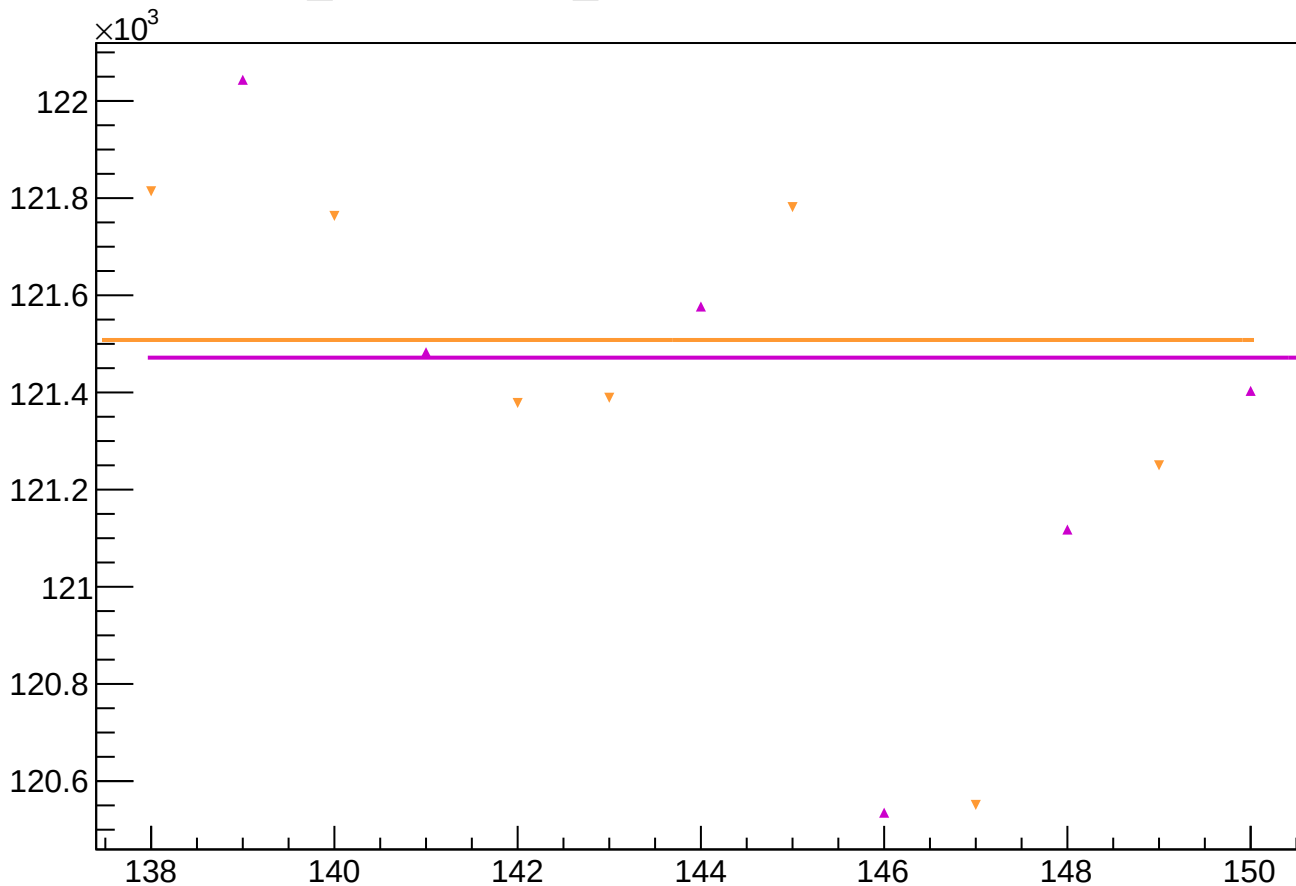
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 199.275+/-0.065  $\chi^2/\text{NDF}$ :217318.5/5

Out: 187.915+/-0.061  $\chi^2/\text{NDF}$ :214321.9/6

All: 193.237+/-0.044  $\chi^2/\text{NDF}$ : 447933.2/12

# yield\_bpm0l01WS\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 121508.022+/-0.073  $\chi^2$ /NDF:20478388.3/6

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 121471.637+/-0.076  $\chi^2$ /NDF:27491575.7/5

Left: 121490.618+/-0.052  $\chi^2$ /NDF: 48090342.0/12

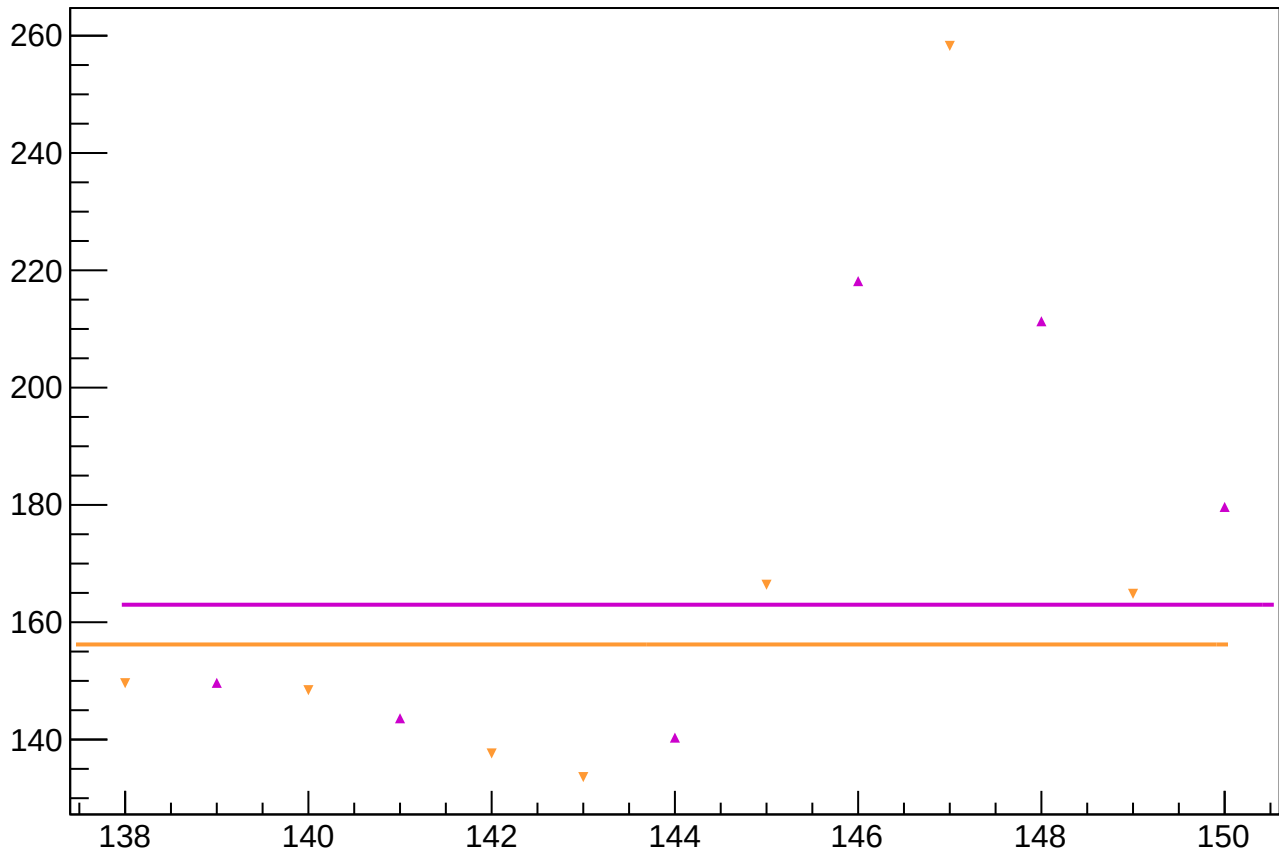
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 121471.637+/-0.076  $\chi^2$ /NDF:27491575.7/5

Out: 121508.022+/-0.073  $\chi^2$ /NDF:20478388.3/6

All: 121490.618+/-0.052  $\chi^2$ /NDF: 48090342.0/12

# yield\_bpm0l01WS\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 156.210+/-0.051  $\chi^2/\text{NDF}$ :308850.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 162.987+/-0.054  $\chi^2/\text{NDF}$ :279823.0/5

Left: 159.452+/-0.037  $\chi^2/\text{NDF}$ : 597023.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

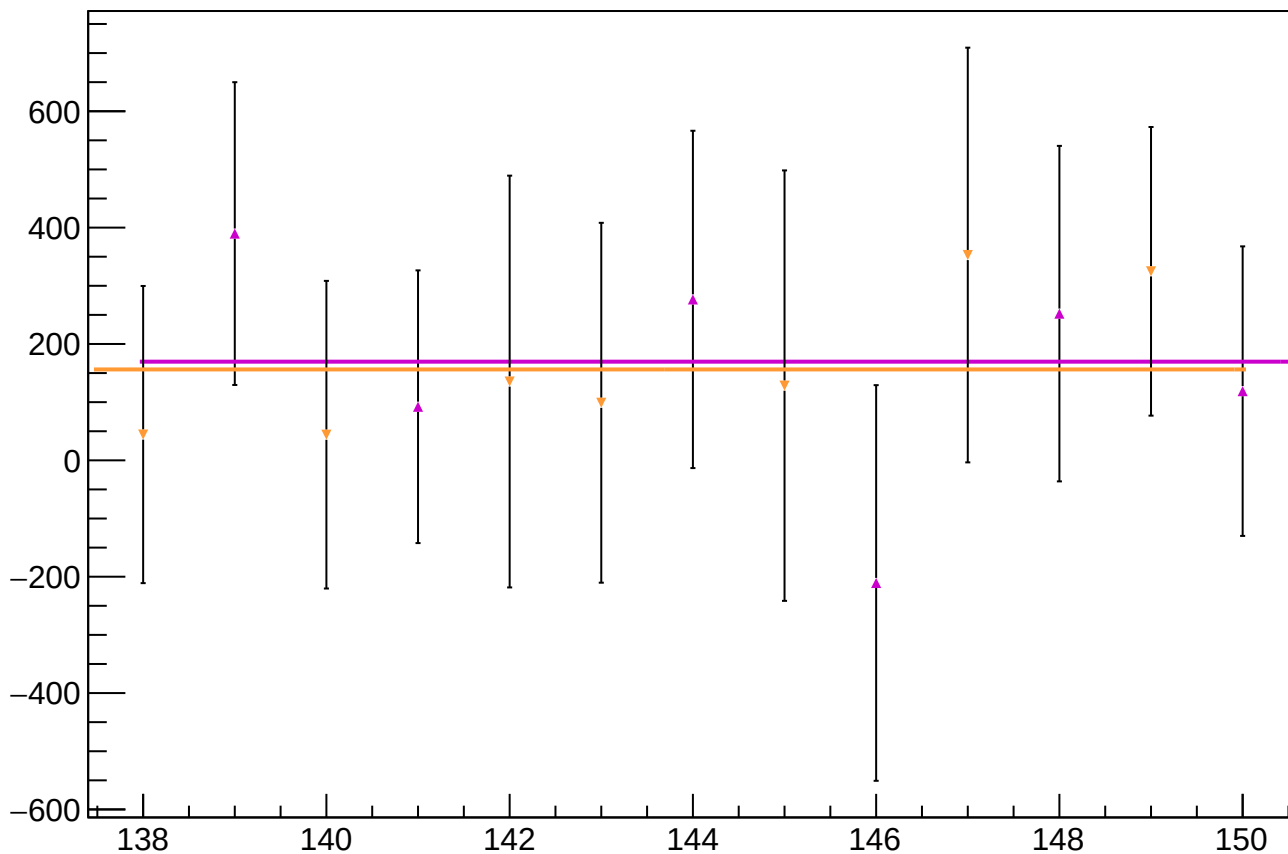
In: 162.987+/-0.054  $\chi^2/\text{NDF}$ :279823.0/5

Out: 156.210+/-0.051  $\chi^2/\text{NDF}$ :308850.0/6

All: 159.452+/-0.037  $\chi^2/\text{NDF}$ : 597023.9/12



# asym\_bcm\_an\_ds\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 156.233+/-112.144  $\chi^2/\text{NDF}$ : 1.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 169.588+/-110.630  $\chi^2/\text{NDF}$ : 2.3/5

Left: 163.001+/-78.757  $\chi^2/\text{NDF}$ : 3.5/12

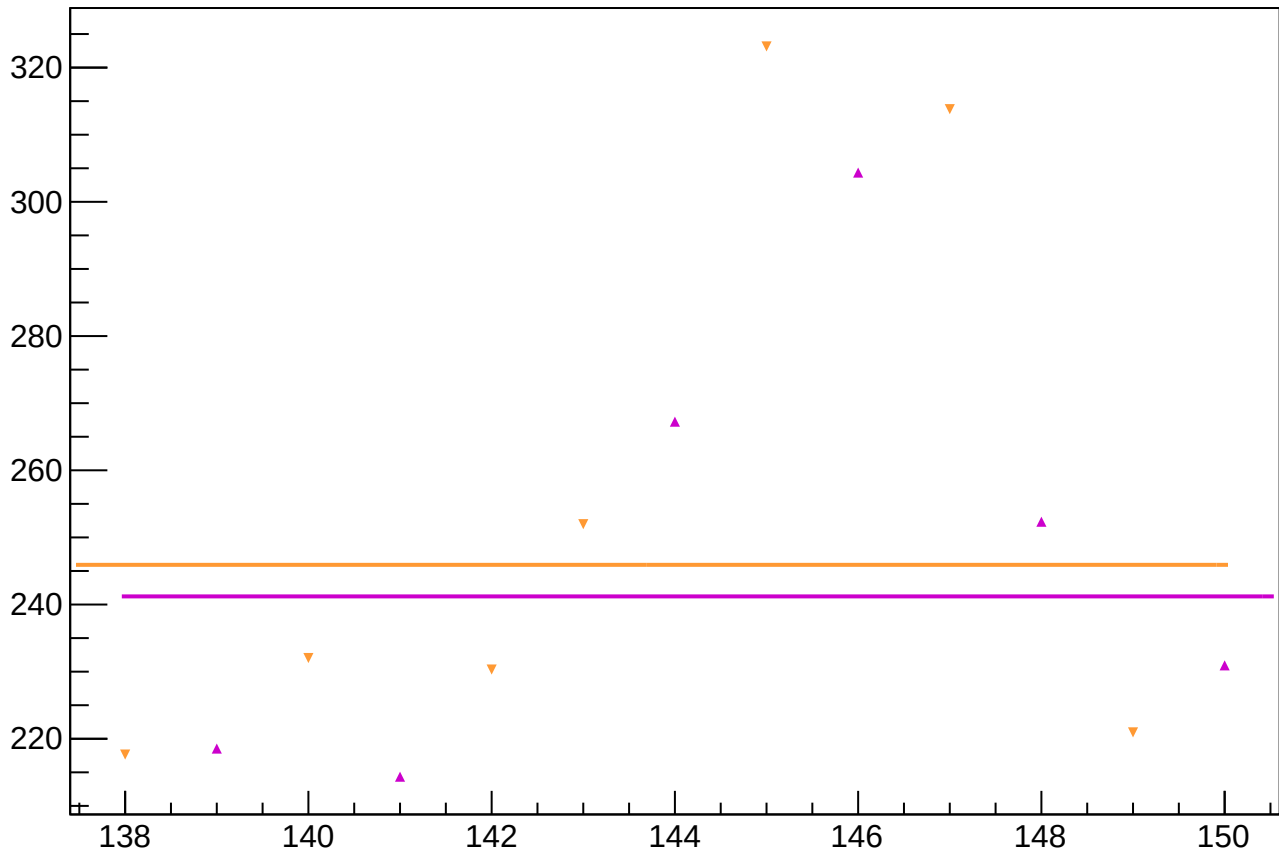
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 169.588+/-110.630  $\chi^2/\text{NDF}$ : 2.3/5

Out: 156.233+/-112.144  $\chi^2/\text{NDF}$ : 1.2/6

All: 163.001+/-78.757  $\chi^2/\text{NDF}$ : 3.5/12

# asym\_bcm\_an\_ds\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 245.915+/-0.079  $\chi^2/\text{NDF}$ :214693.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 241.213+/-0.078  $\chi^2/\text{NDF}$ :132958.4/5

Left: 243.532+/-0.056  $\chi^2/\text{NDF}$ : 349433.4/12

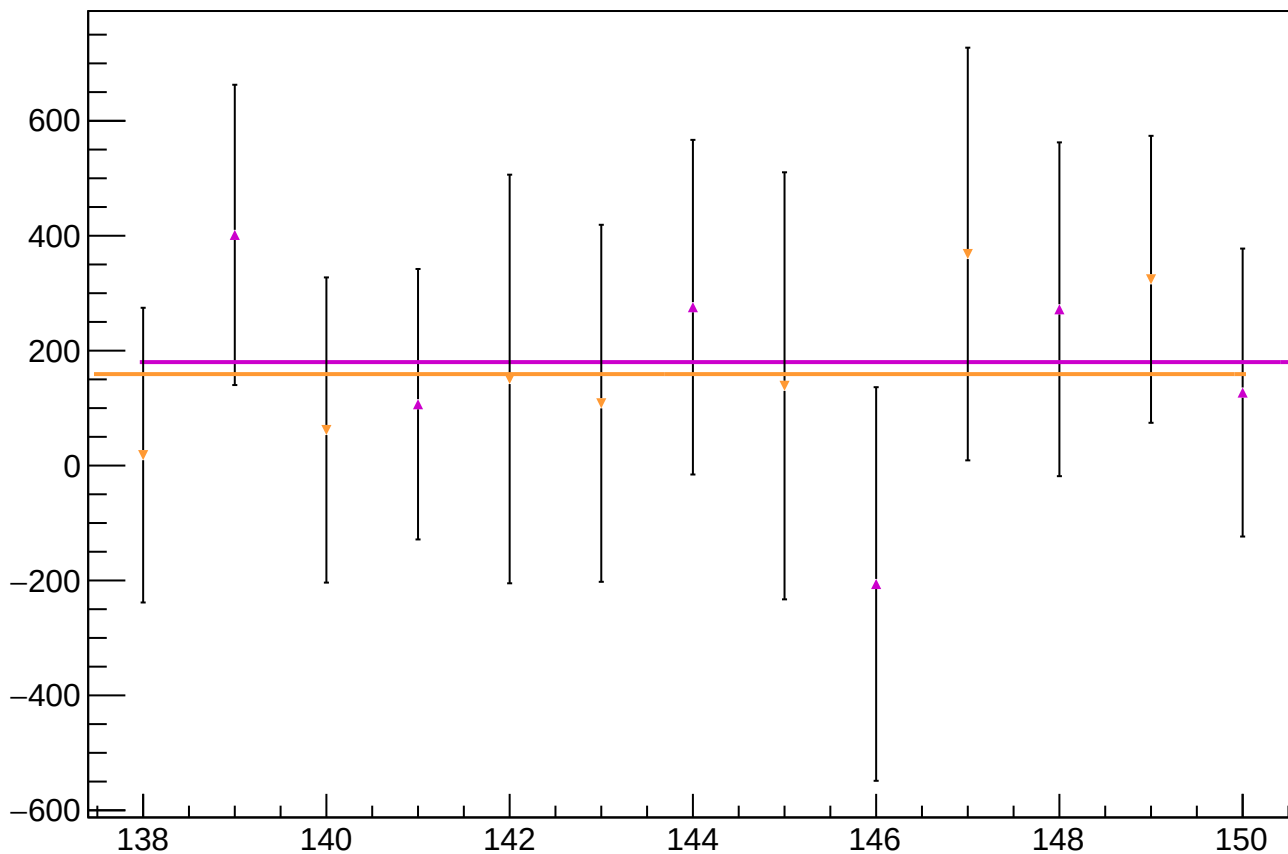
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 241.213+/-0.078  $\chi^2/\text{NDF}$ :132958.4/5

Out: 245.915+/-0.079  $\chi^2/\text{NDF}$ :214693.1/6

All: 243.532+/-0.056  $\chi^2/\text{NDF}$ : 349433.4/12

asym\_bcm\_an\_ds3\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 159.194+/-112.742  $\chi^2/\text{NDF}$ :1.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 180.076+/-111.261  $\chi^2/\text{NDF}$ :2.3/5

Left: 169.773+/-79.192  $\chi^2/\text{NDF}$ : 3.6/12

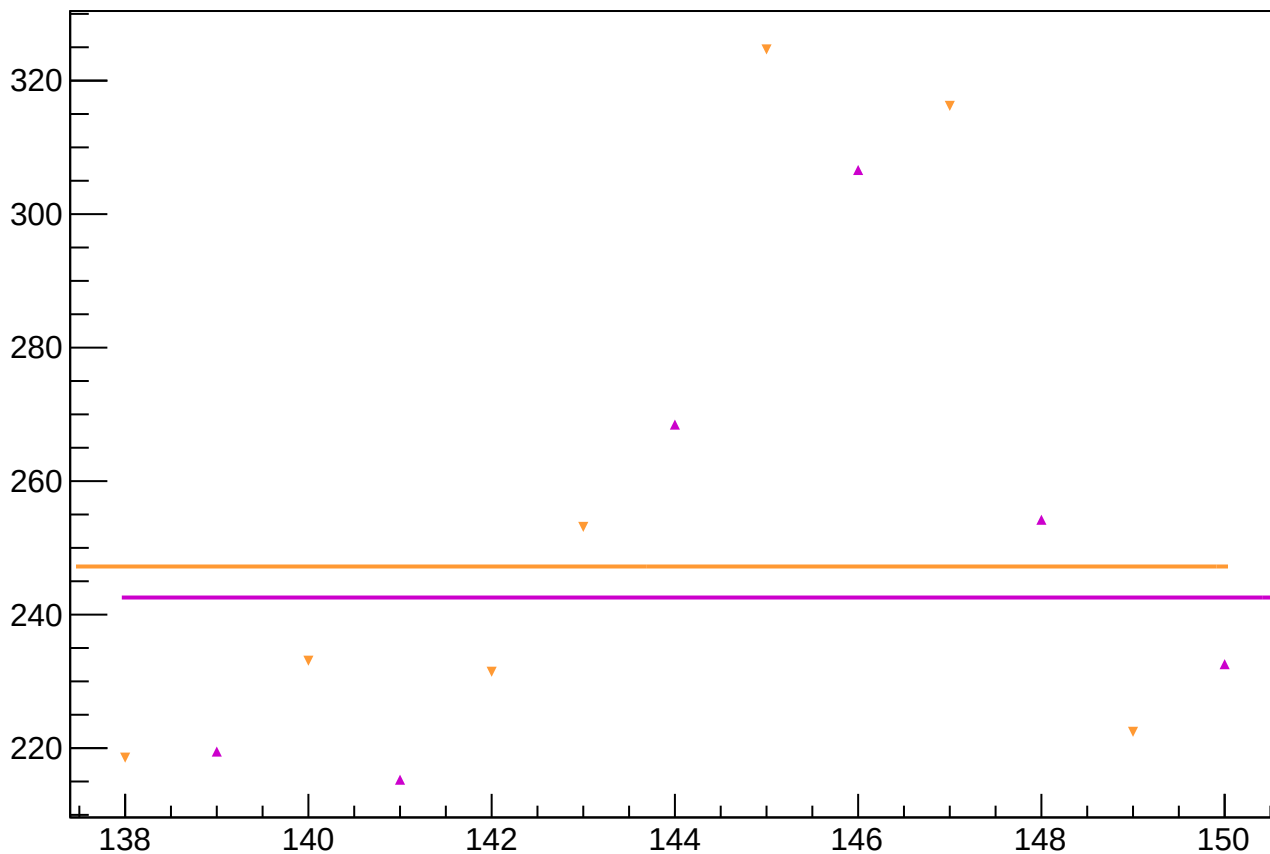
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 180.076+/-111.261  $\chi^2/\text{NDF}$ :2.3/5

Out: 159.194+/-112.742  $\chi^2/\text{NDF}$ :1.2/6

All: 169.773+/-79.192  $\chi^2/\text{NDF}$ : 3.6/12

# asym\_bcm\_an\_ds3\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 247.210+/-0.080  $\chi^2/\text{NDF}$ :215649.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 242.563+/-0.079  $\chi^2/\text{NDF}$ :134638.4/5

Left: 244.856+/-0.056  $\chi^2/\text{NDF}$ : 352009.9/12

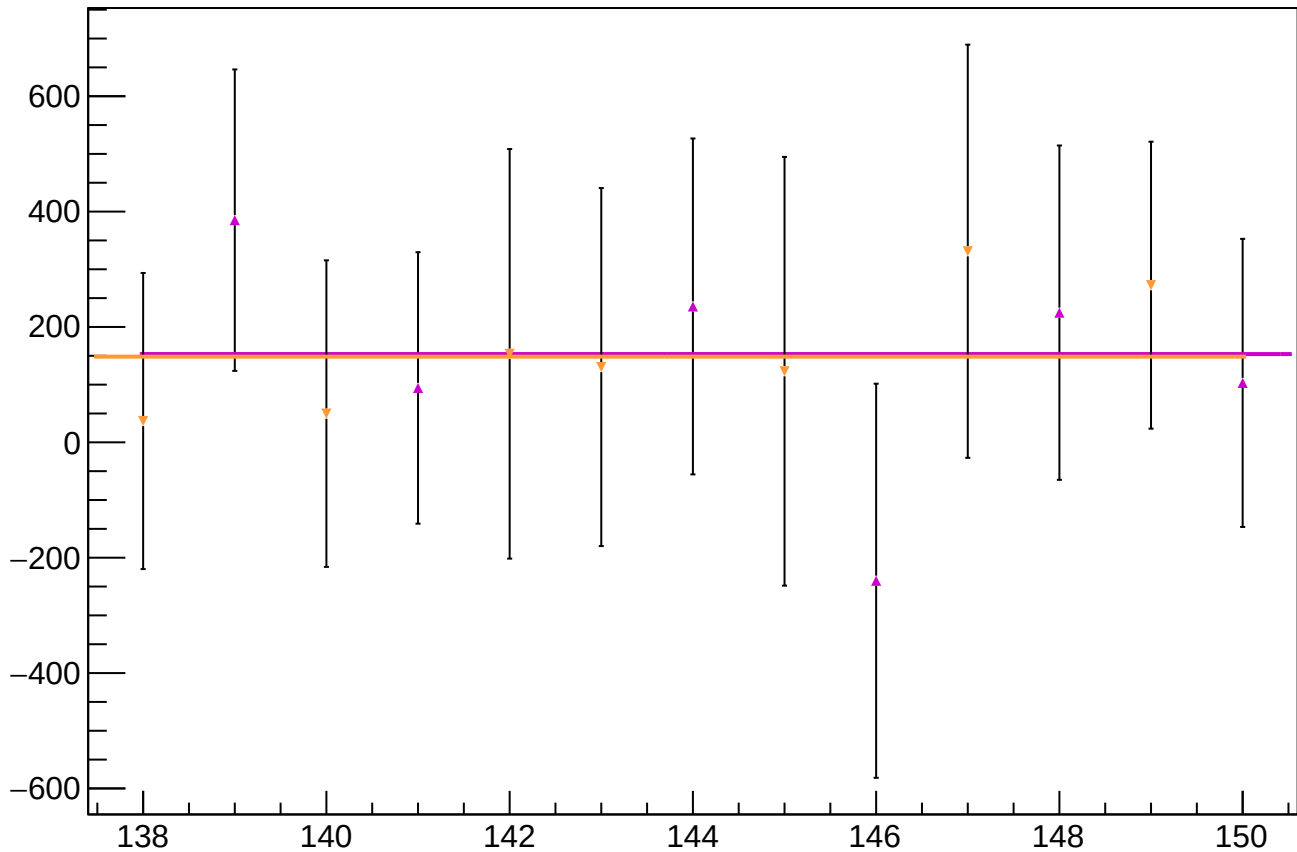
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 242.563+/-0.079  $\chi^2/\text{NDF}$ :134638.4/5

Out: 247.210+/-0.080  $\chi^2/\text{NDF}$ :215649.8/6

All: 244.856+/-0.056  $\chi^2/\text{NDF}$ : 352009.9/12

asym\_bcm\_an\_us\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 148.554+/-112.605  $\chi^2/\text{NDF}$ : 0.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 152.998+/-111.097  $\chi^2/\text{NDF}$ : 2.4/5

Left: 150.806+/-79.085  $\chi^2/\text{NDF}$ : 3.2/12

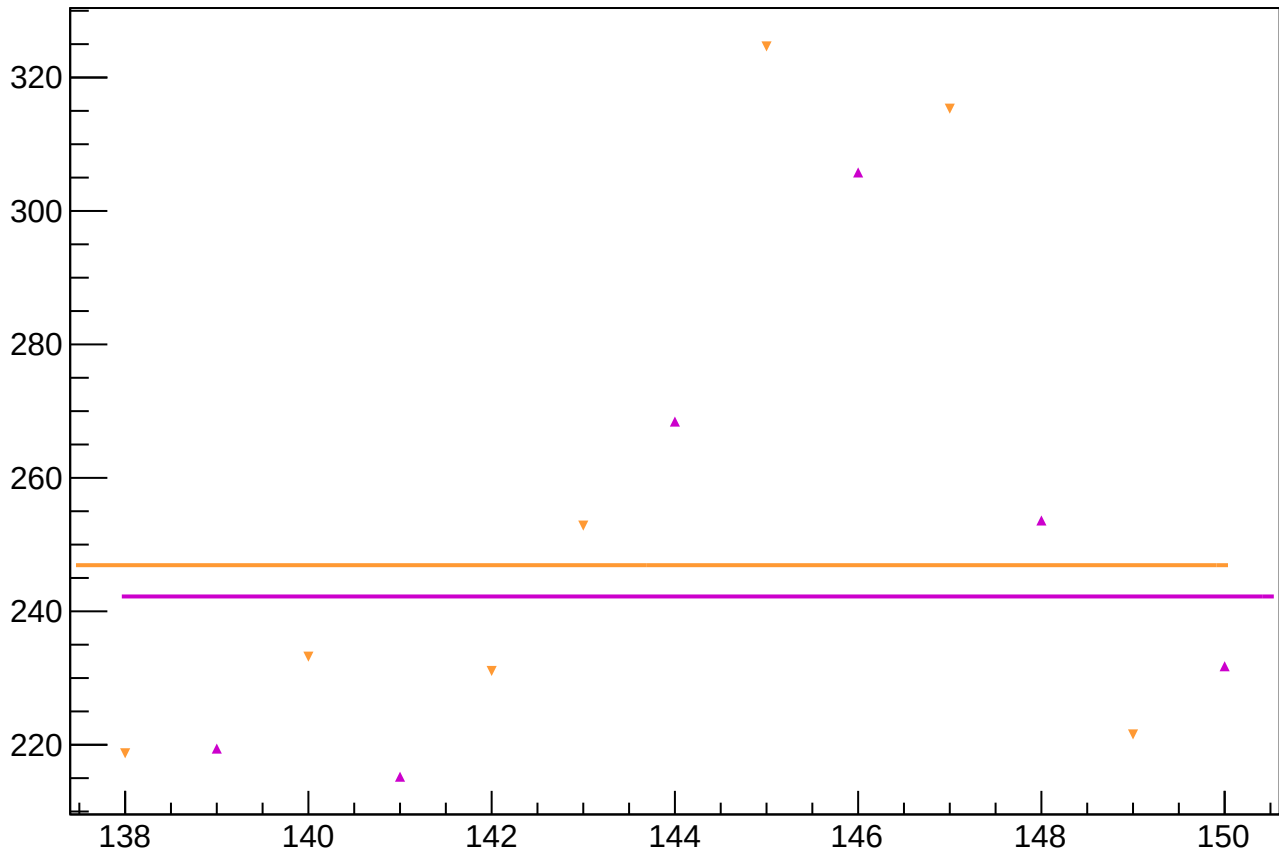
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 152.998+/-111.097  $\chi^2/\text{NDF}$ : 2.4/5

Out: 148.554+/-112.605  $\chi^2/\text{NDF}$ : 0.8/6

All: 150.806+/-79.085  $\chi^2/\text{NDF}$ : 3.2/12

# asym\_bcm\_an\_us\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 246.915+/-0.080  $\chi^2/\text{NDF}$ :215487.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 242.227+/-0.079  $\chi^2/\text{NDF}$ :133598.6/5

Left: 244.539+/-0.056  $\chi^2/\text{NDF}$ : 350842.7/12

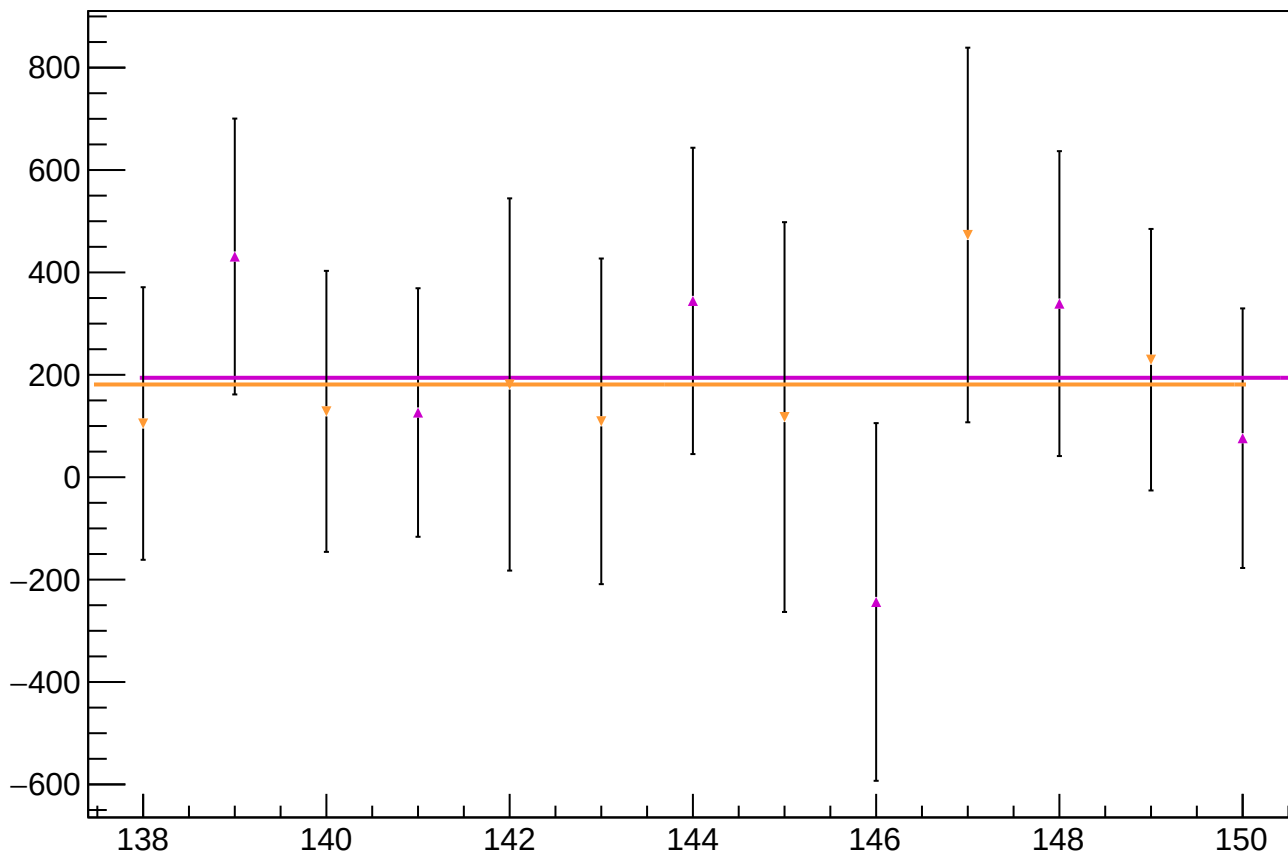
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 242.227+/-0.079  $\chi^2/\text{NDF}$ :133598.6/5

Out: 246.915+/-0.080  $\chi^2/\text{NDF}$ :215487.5/6

All: 244.539+/-0.056  $\chi^2/\text{NDF}$ : 350842.7/12

# asym\_bcm\_dg\_us\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 181.129+/-115.821  $\chi^2/\text{NDF}$ : 0.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 194.206+/-113.992  $\chi^2/\text{NDF}$ : 3.1/5

Left: 187.772+/-81.243  $\chi^2/\text{NDF}$ : 4.0/12

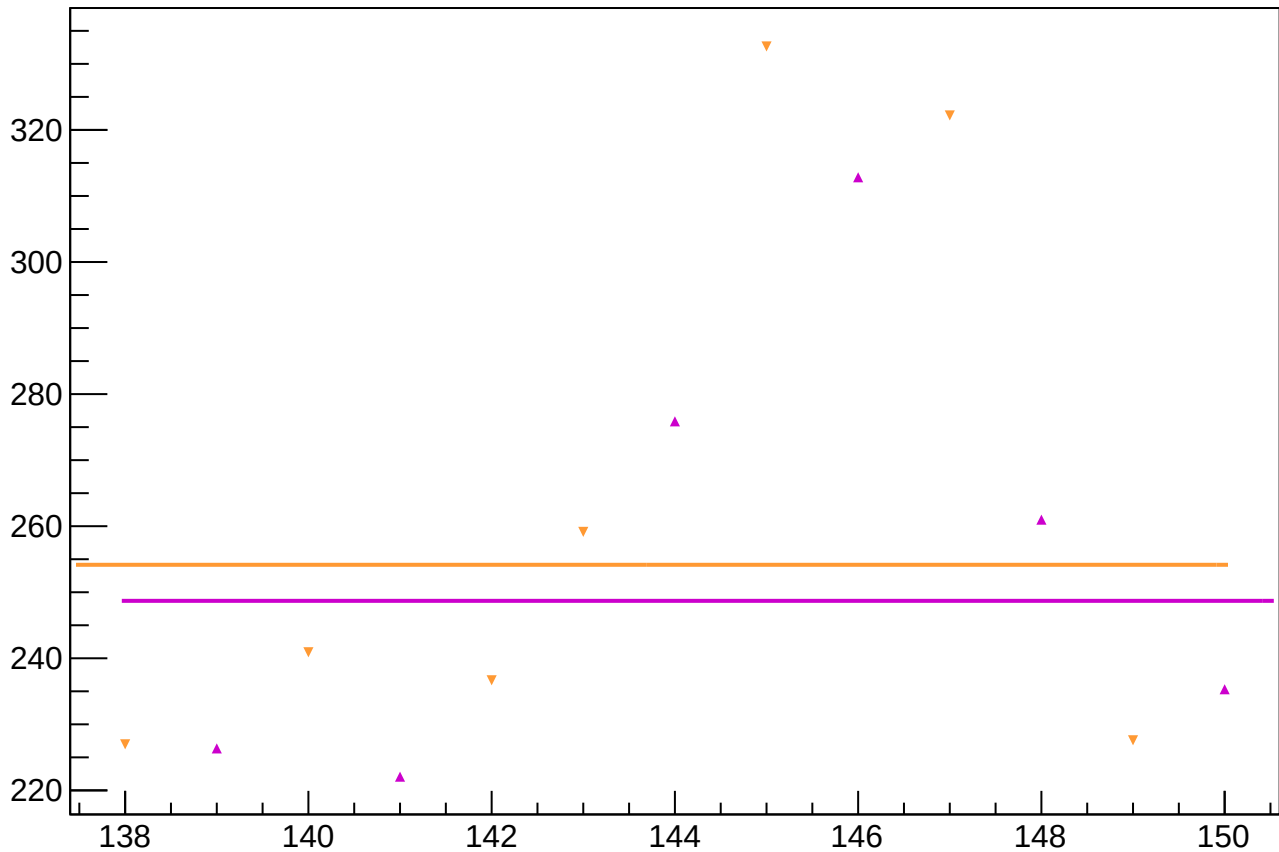
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 194.206+/-113.992  $\chi^2/\text{NDF}$ : 3.1/5

Out: 181.129+/-115.821  $\chi^2/\text{NDF}$ : 0.9/6

All: 187.772+/-81.243  $\chi^2/\text{NDF}$ : 4.0/12

# asym\_bcm\_dg\_us\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 254.157+/-0.082  $\chi^2/\text{NDF}$ :206461.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 248.698+/-0.081  $\chi^2/\text{NDF}$ :130722.4/5

Left: 251.384+/-0.057  $\chi^2/\text{NDF}$ : 339440.3/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

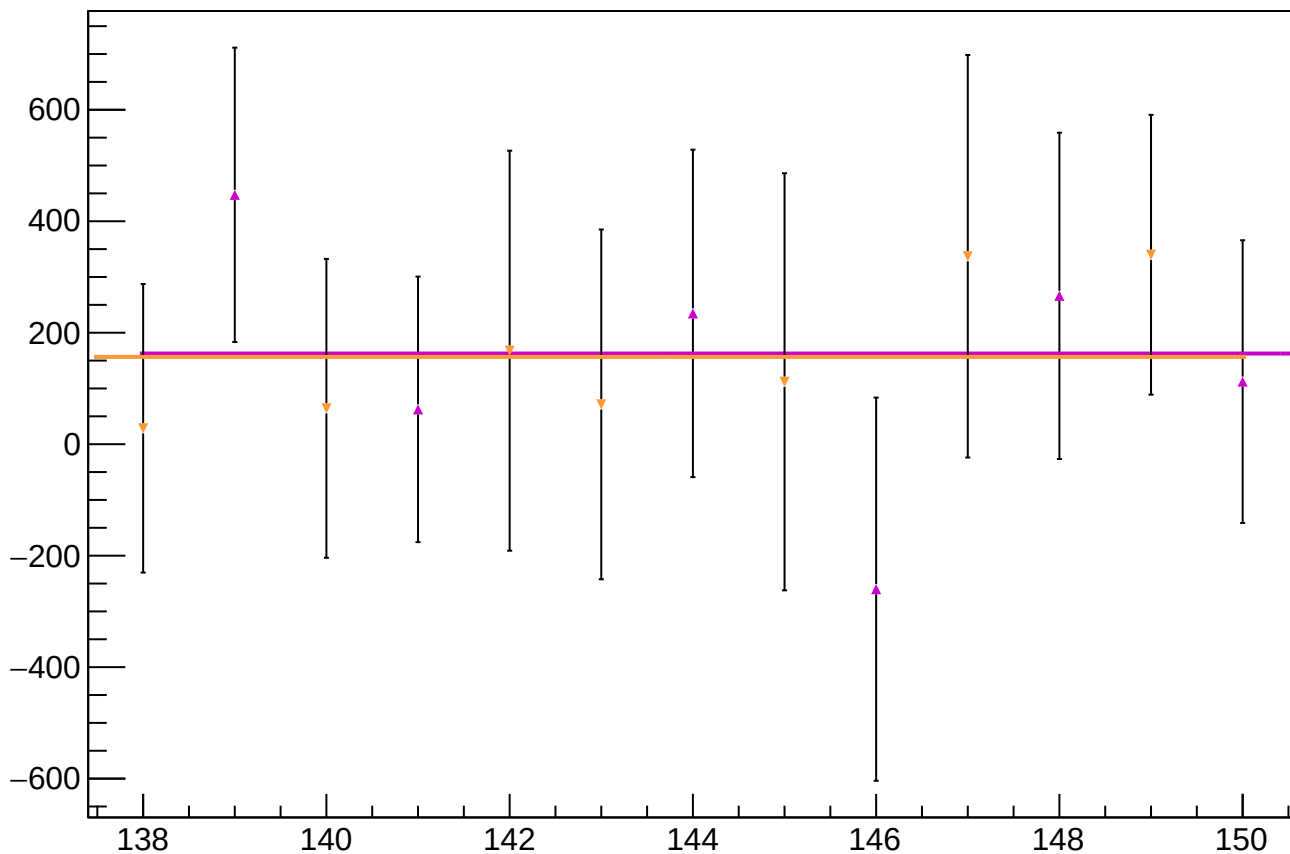
In: 248.698+/-0.081  $\chi^2/\text{NDF}$ :130722.4/5

Out: 254.157+/-0.082  $\chi^2/\text{NDF}$ :206461.3/6

All: 251.384+/-0.057  $\chi^2/\text{NDF}$ : 339440.3/12



asym\_bcm\_dg\_ds\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 156.631+/-113.634  $\chi^2/\text{NDF}$ :1.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 162.644+/-112.342  $\chi^2/\text{NDF}$ :3.1/5

Left: 159.671+/-79.891  $\chi^2/\text{NDF}$ : 4.3/12

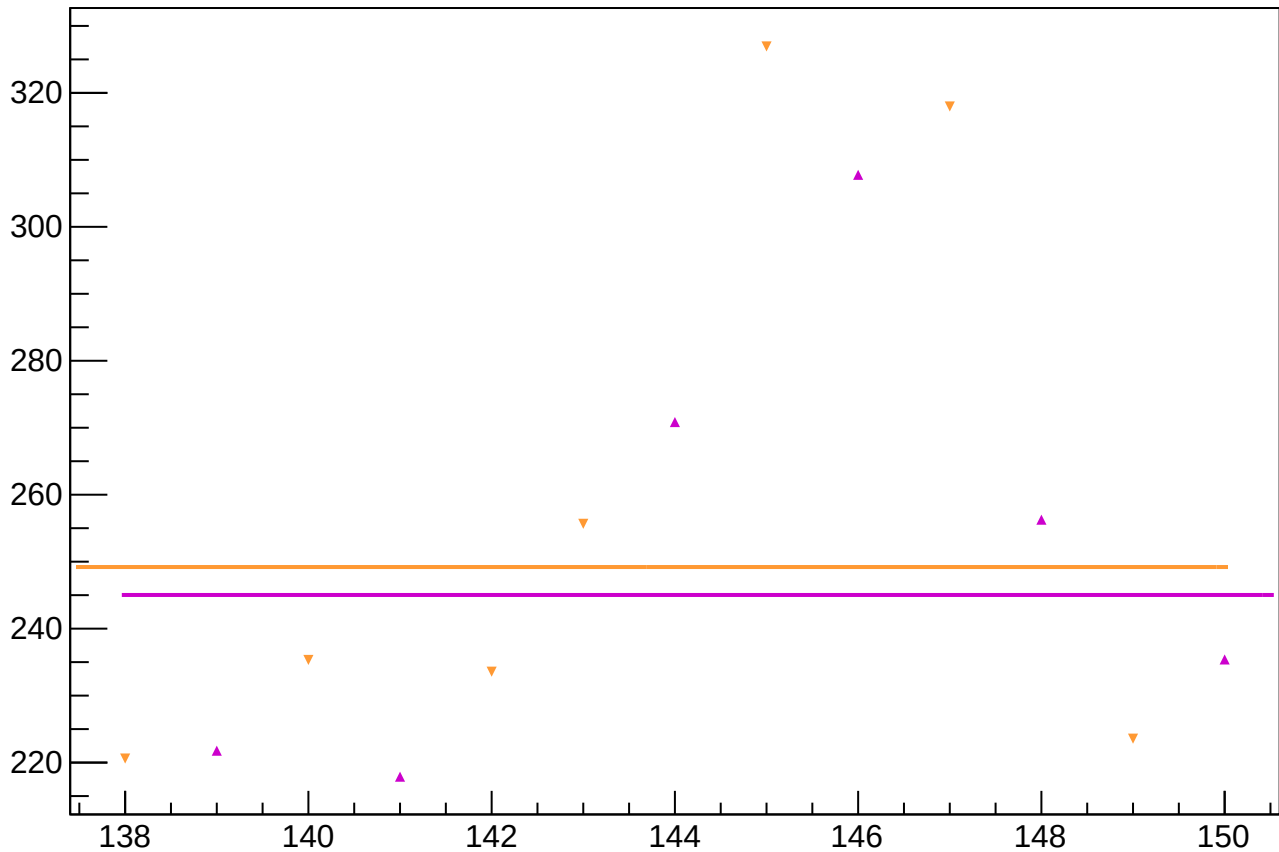
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 162.644+/-112.342  $\chi^2/\text{NDF}$ :3.1/5

Out: 156.631+/-113.634  $\chi^2/\text{NDF}$ :1.2/6

All: 159.671+/-79.891  $\chi^2/\text{NDF}$ : 4.3/12

# asym\_bcm\_dg\_ds\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 249.200+/-0.080  $\chi^2/\text{NDF}$ :214103.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 245.028+/-0.079  $\chi^2/\text{NDF}$ :129368.3/5

Left: 247.090+/-0.056  $\chi^2/\text{NDF}$ : 344835.5/12

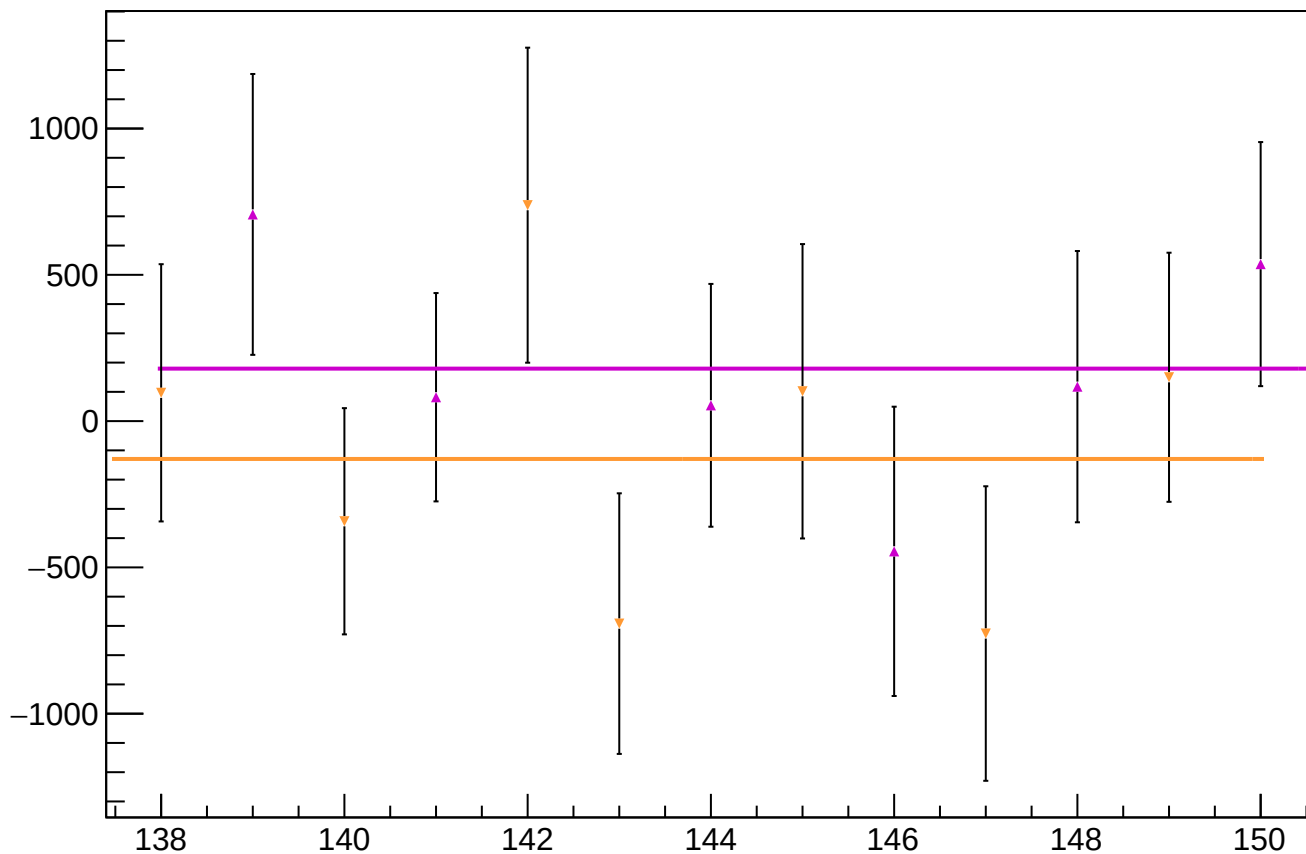
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 245.028+/-0.079  $\chi^2/\text{NDF}$ :129368.3/5

Out: 249.200+/-0.080  $\chi^2/\text{NDF}$ :214103.8/6

All: 247.090+/-0.056  $\chi^2/\text{NDF}$ : 344835.5/12

# asym\_cav4bQ\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -129.365+/-172.082  $\chi^2/\text{NDF}$ : 6.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 179.395+/-175.342  $\chi^2/\text{NDF}$ : 3.7/5

Left: 22.118+/-122.816  $\chi^2/\text{NDF}$ : 12.1/12

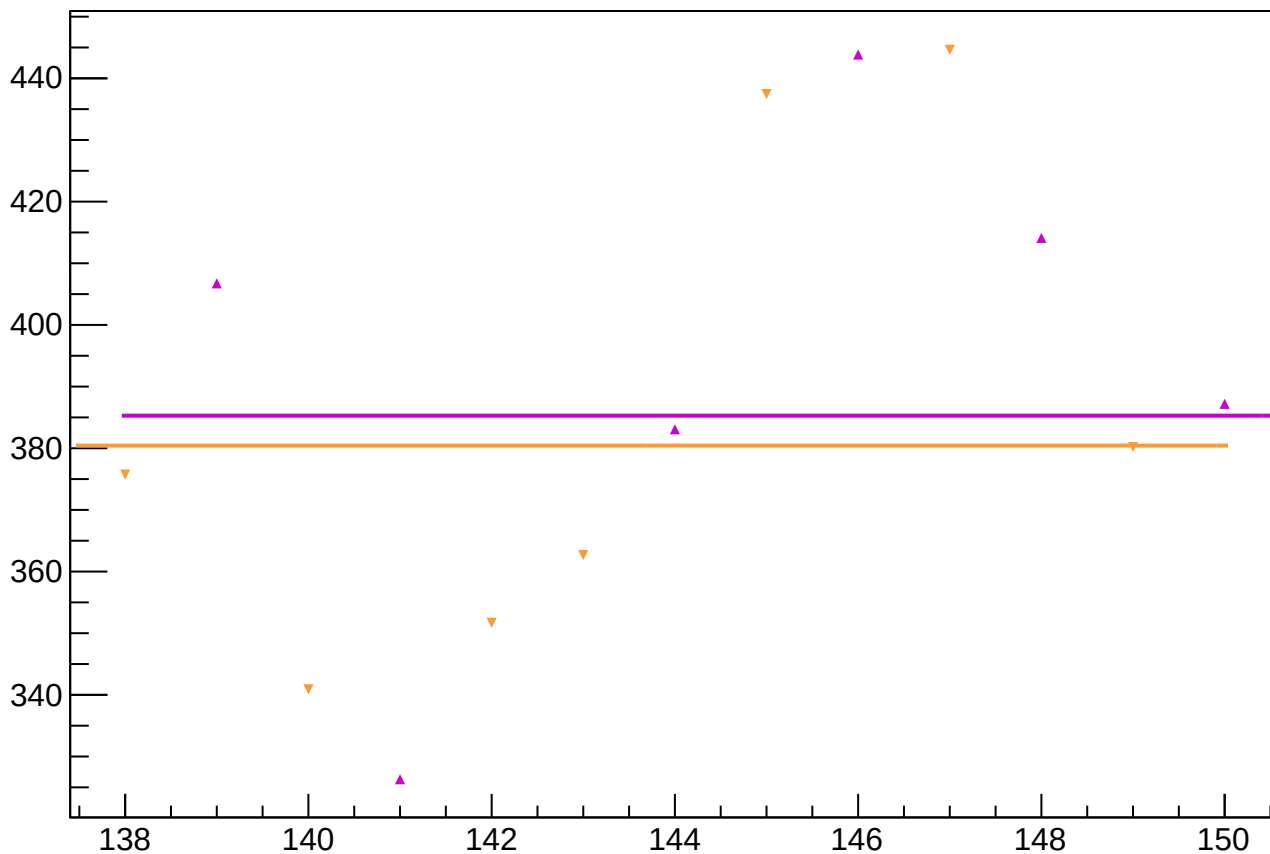
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 179.395+/-175.342  $\chi^2/\text{NDF}$ : 3.7/5

Out: -129.365+/-172.082  $\chi^2/\text{NDF}$ : 6.8/6

All: 22.118+/-122.816  $\chi^2/\text{NDF}$ : 12.1/12

# asym\_cav4bQ\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 380.427+/-0.122  $\chi^2/\text{NDF}$ : 88220.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 385.286+/-0.124  $\chi^2/\text{NDF}$ : 94772.3/5

Left: 382.811+/-0.087  $\chi^2/\text{NDF}$ : 183775.3/12

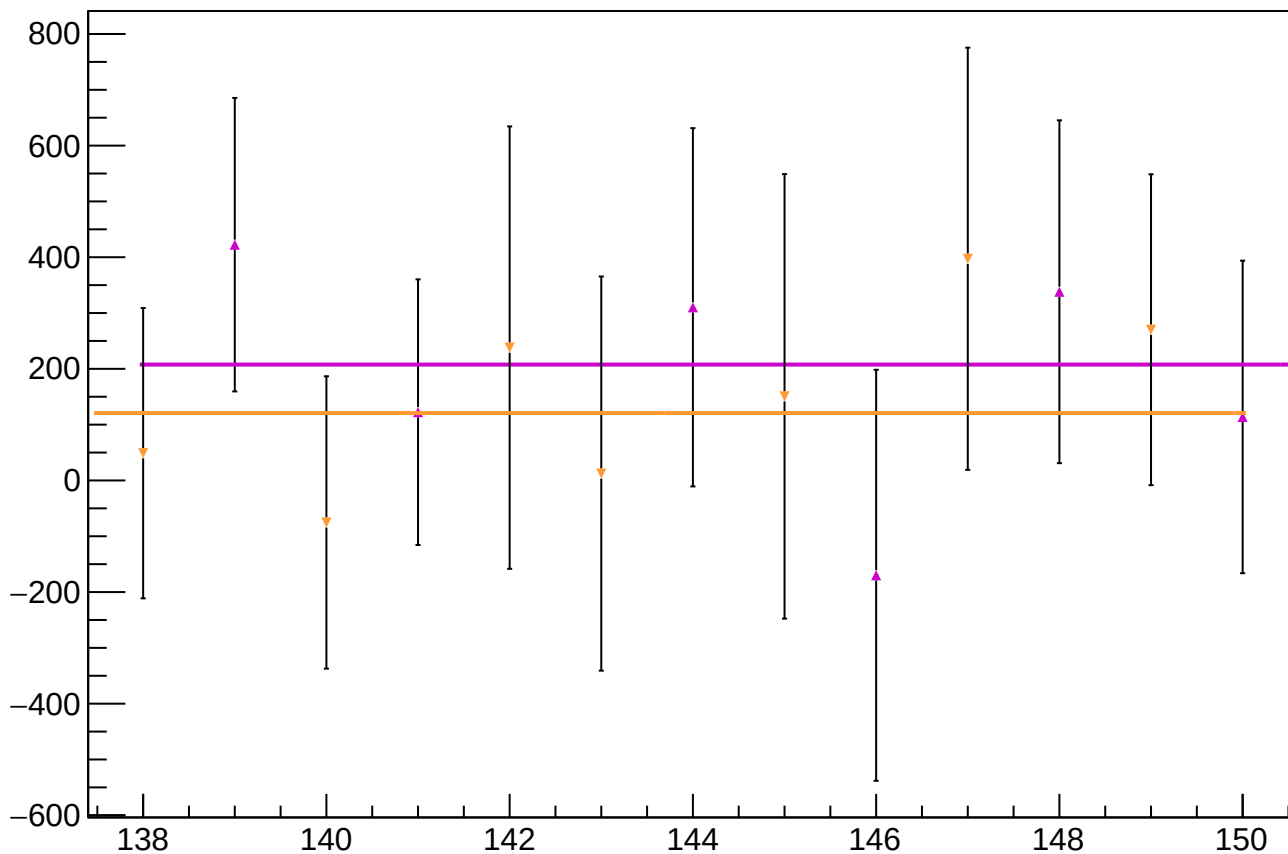
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 385.286+/-0.124  $\chi^2/\text{NDF}$ : 94772.3/5

Out: 380.427+/-0.122  $\chi^2/\text{NDF}$ : 88220.7/6

All: 382.811+/-0.087  $\chi^2/\text{NDF}$ : 183775.3/12

# asym\_cav4cQ\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 120.799+/-119.588  $\chi^2/\text{NDF}$ :1.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 207.639+/-117.395  $\chi^2/\text{NDF}$ :2.2/5

Left: 165.023+/-83.776  $\chi^2/\text{NDF}$ : 4.2/12

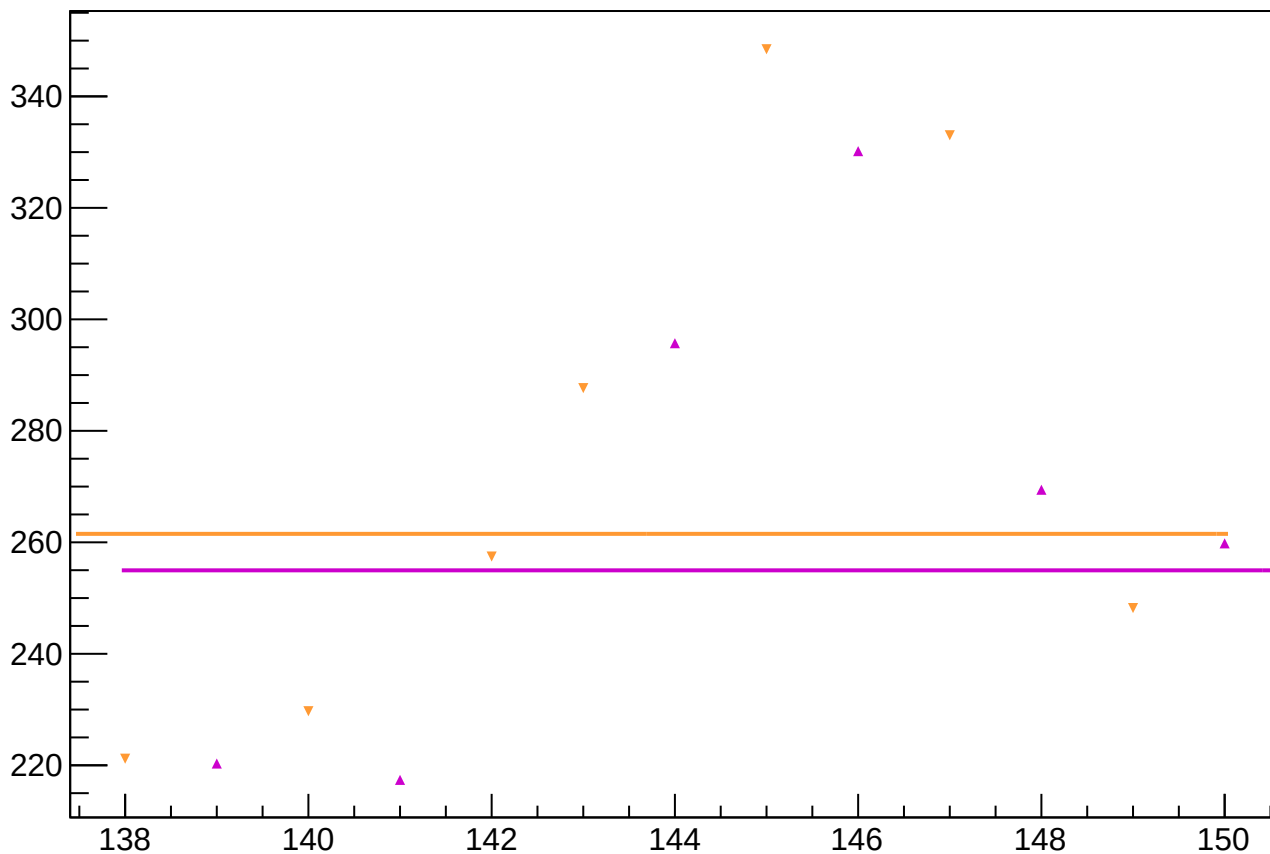
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 207.639+/-117.395  $\chi^2/\text{NDF}$ :2.2/5

Out: 120.799+/-119.588  $\chi^2/\text{NDF}$ :1.6/6

All: 165.023+/-83.776  $\chi^2/\text{NDF}$ : 4.2/12

# asym\_cav4cQ\_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 261.520 $\pm$ 0.085  $\chi^2$ /NDF:260112.4/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 254.974 $\pm$ 0.083  $\chi^2$ /NDF:205310.2/5

Left: 258.186 $\pm$ 0.059  $\chi^2$ /NDF: 468473.6/12

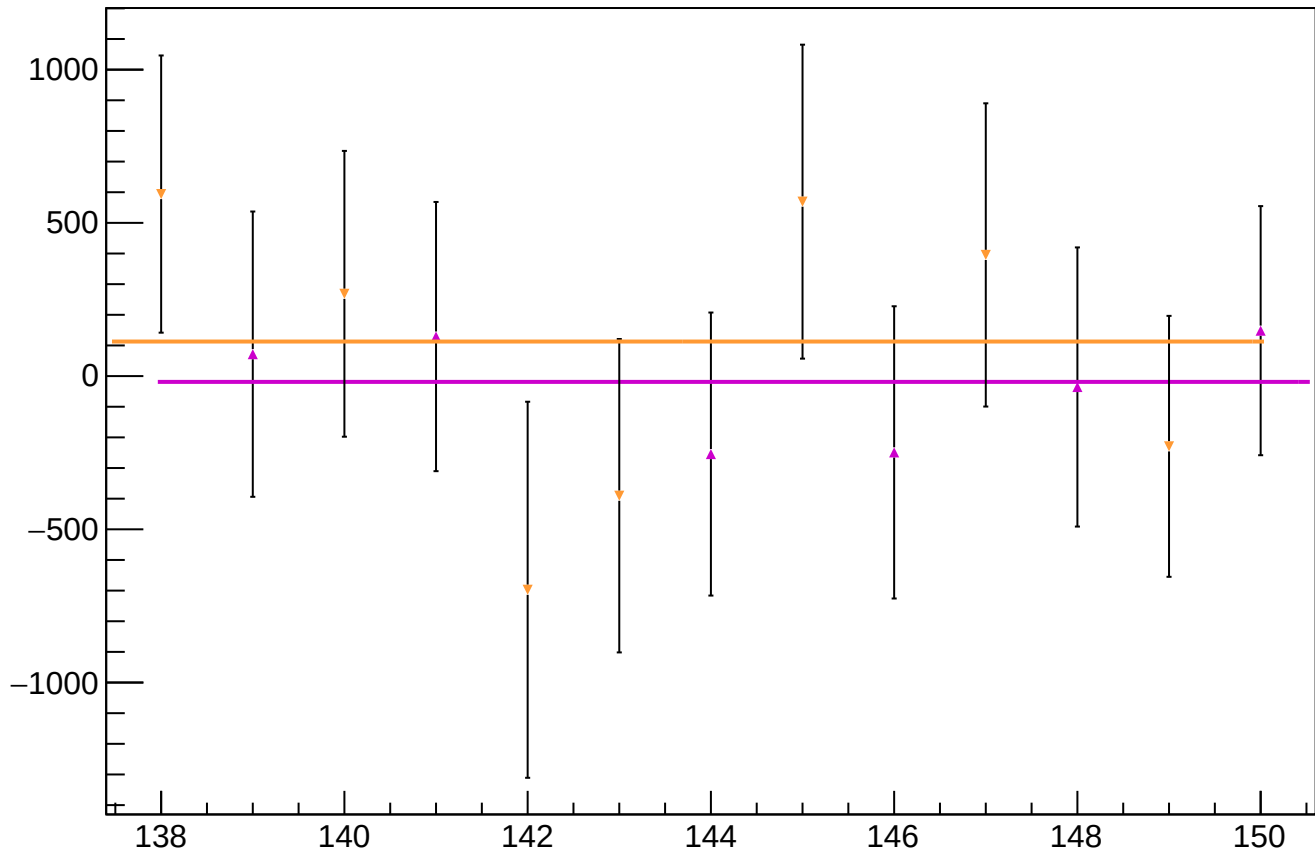
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 254.974 $\pm$ 0.083  $\chi^2$ /NDF:205310.2/5

Out: 261.520 $\pm$ 0.085  $\chi^2$ /NDF:260112.4/6

All: 258.186 $\pm$ 0.059  $\chi^2$ /NDF: 468473.6/12

# asym\_cav4dQ\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 112.784 $\pm$ 184.493  $\chi^2$ /NDF:5.7/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -18.916 $\pm$ 183.311  $\chi^2$ /NDF:0.8/5

Left: 46.511 $\pm$ 130.036  $\chi^2$ /NDF: 6.8/12

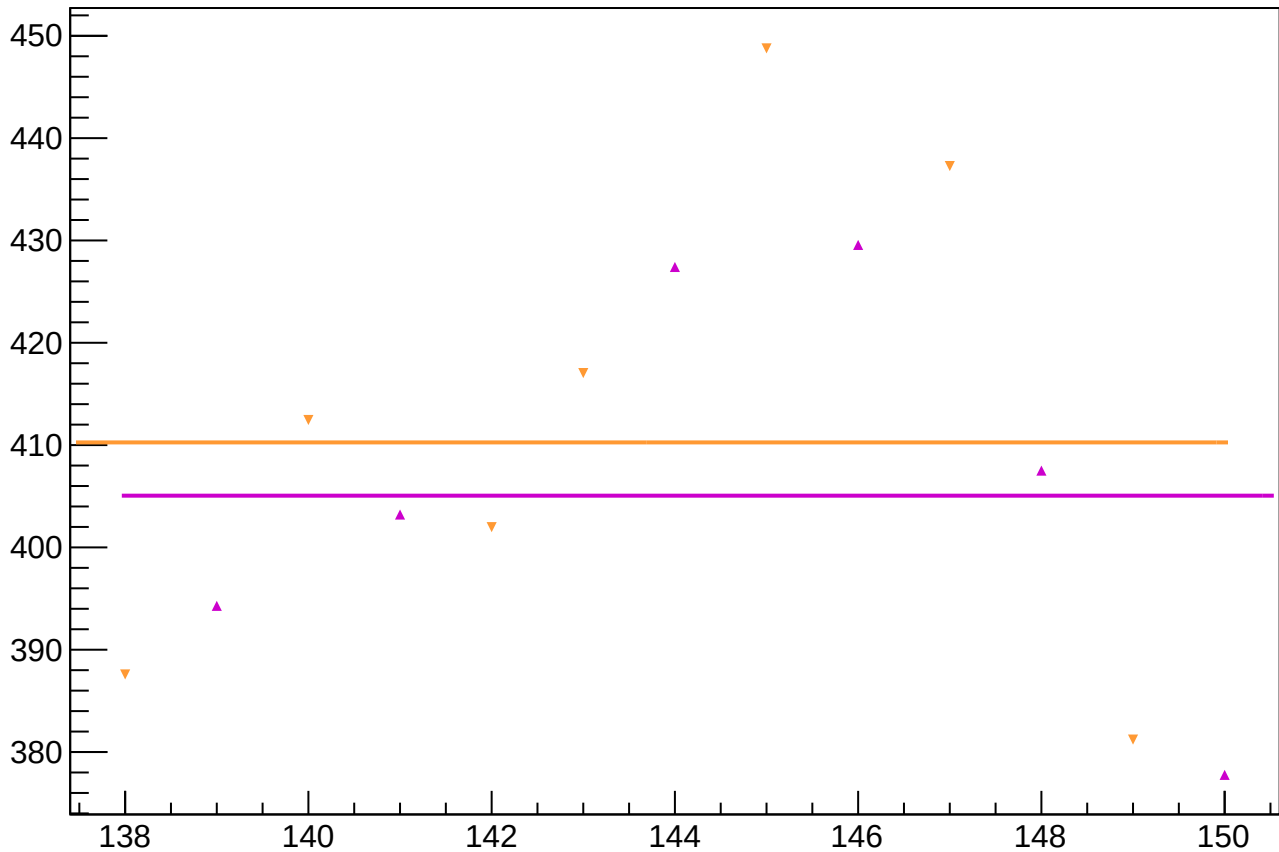
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -18.916 $\pm$ 183.311  $\chi^2$ /NDF:0.8/5

Out: 112.784 $\pm$ 184.493  $\chi^2$ /NDF:5.7/6

All: 46.511 $\pm$ 130.036  $\chi^2$ /NDF: 6.8/12

# asym\_cav4dQ\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 410.262+/-0.130  $\chi^2/\text{NDF}$ :32361.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 405.056+/-0.130  $\chi^2/\text{NDF}$ :20148.3/5

Left: 407.642+/-0.092  $\chi^2/\text{NDF}$ : 53310.8/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

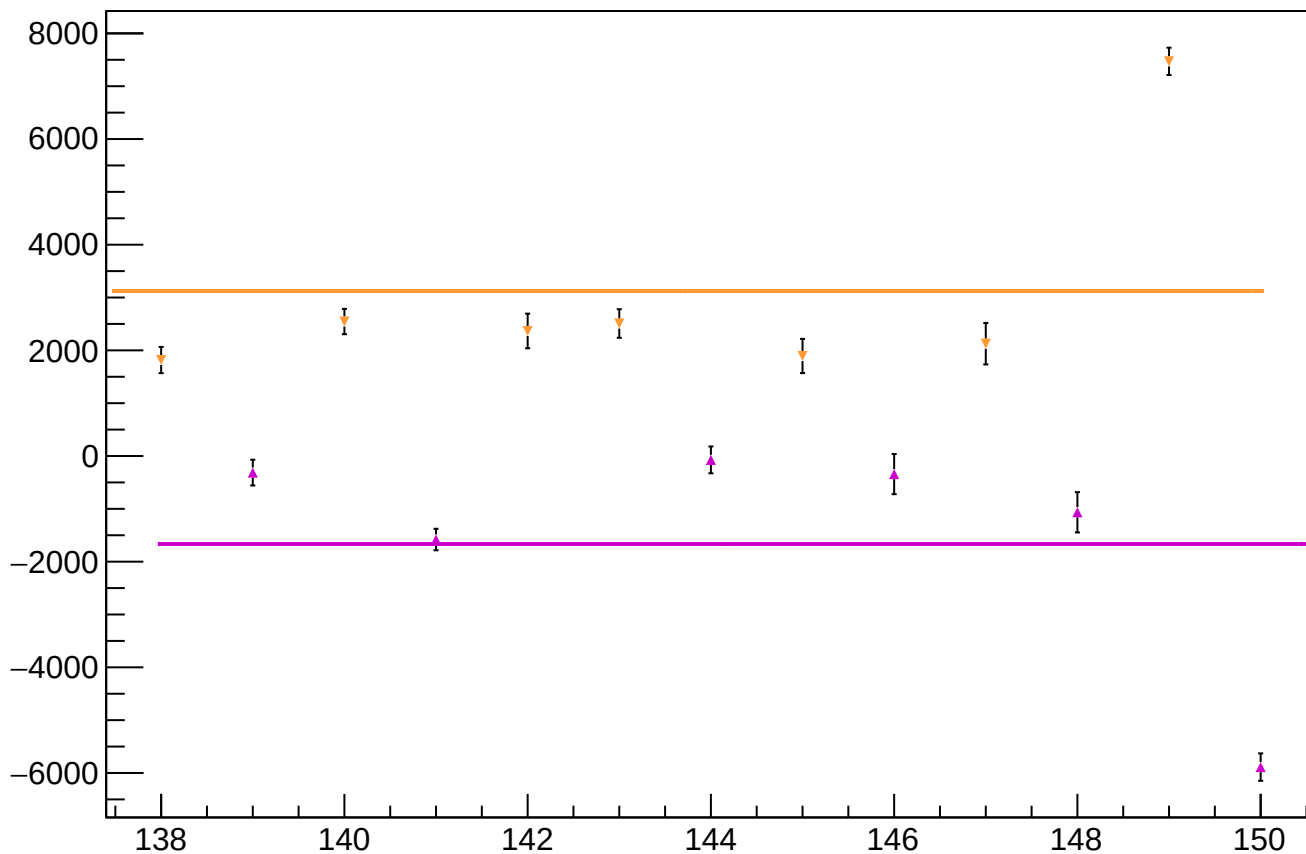
In: 405.056+/-0.130  $\chi^2/\text{NDF}$ :20148.3/5

Out: 410.262+/-0.130  $\chi^2/\text{NDF}$ :32361.3/6

All: 407.642+/-0.092  $\chi^2/\text{NDF}$ : 53310.8/12



# asym\_bcm0l02\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3123.159+/-106.846  $\chi^2/\text{NDF}$ :347.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1665.448+/-108.412  $\chi^2/\text{NDF}$ :349.7/5

Left: 763.691+/-76.099  $\chi^2/\text{NDF}$ : 1686.7/12

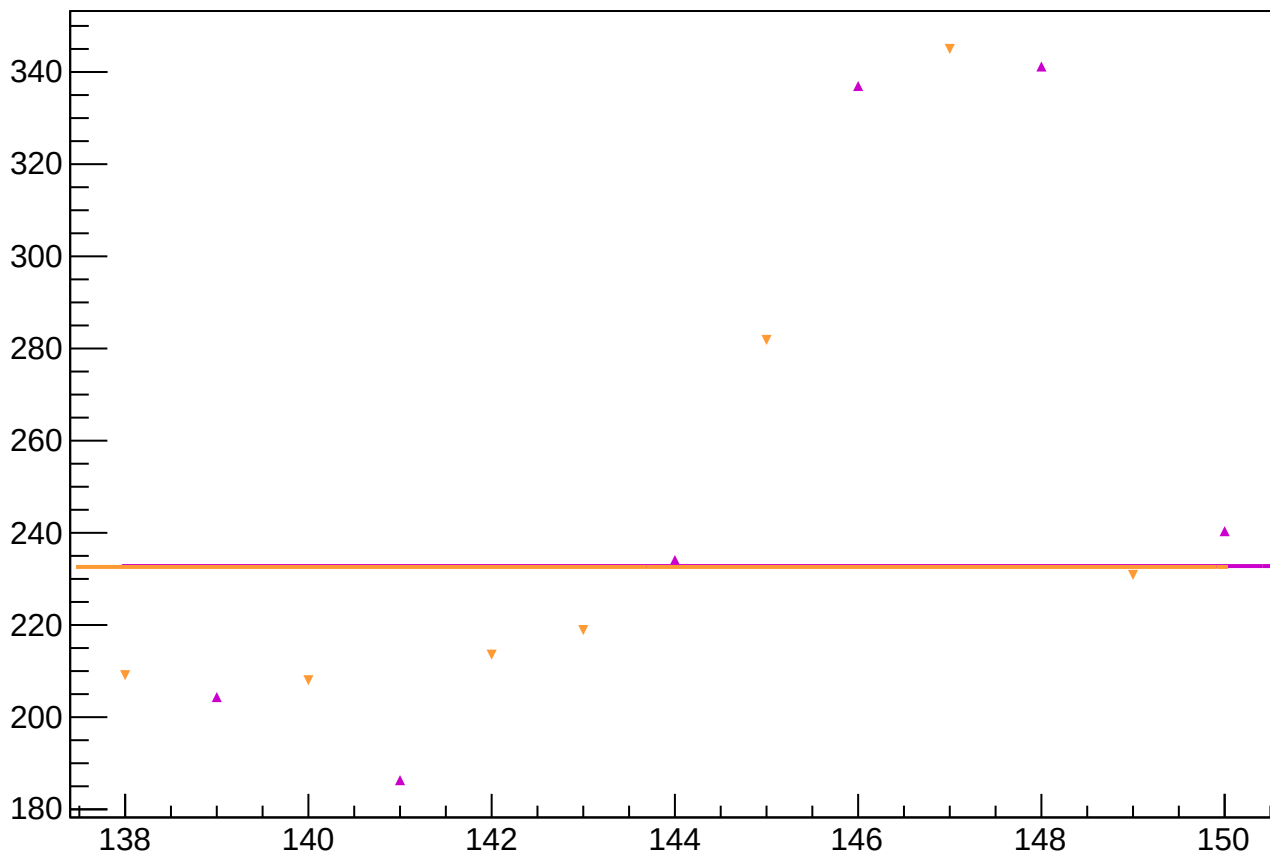
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1665.448+/-108.412  $\chi^2/\text{NDF}$ :349.7/5

Out: 3123.159+/-106.846  $\chi^2/\text{NDF}$ :347.3/6

All: 763.691+/-76.099  $\chi^2/\text{NDF}$ : 1686.7/12

# asym\_bcm0l02\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 232.598+/-0.076  $\chi^2/\text{NDF}$ :261291.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 232.791+/-0.077  $\chi^2/\text{NDF}$ :444723.3/5

Left: 232.693+/-0.054  $\chi^2/\text{NDF}$ : 706017.7/12

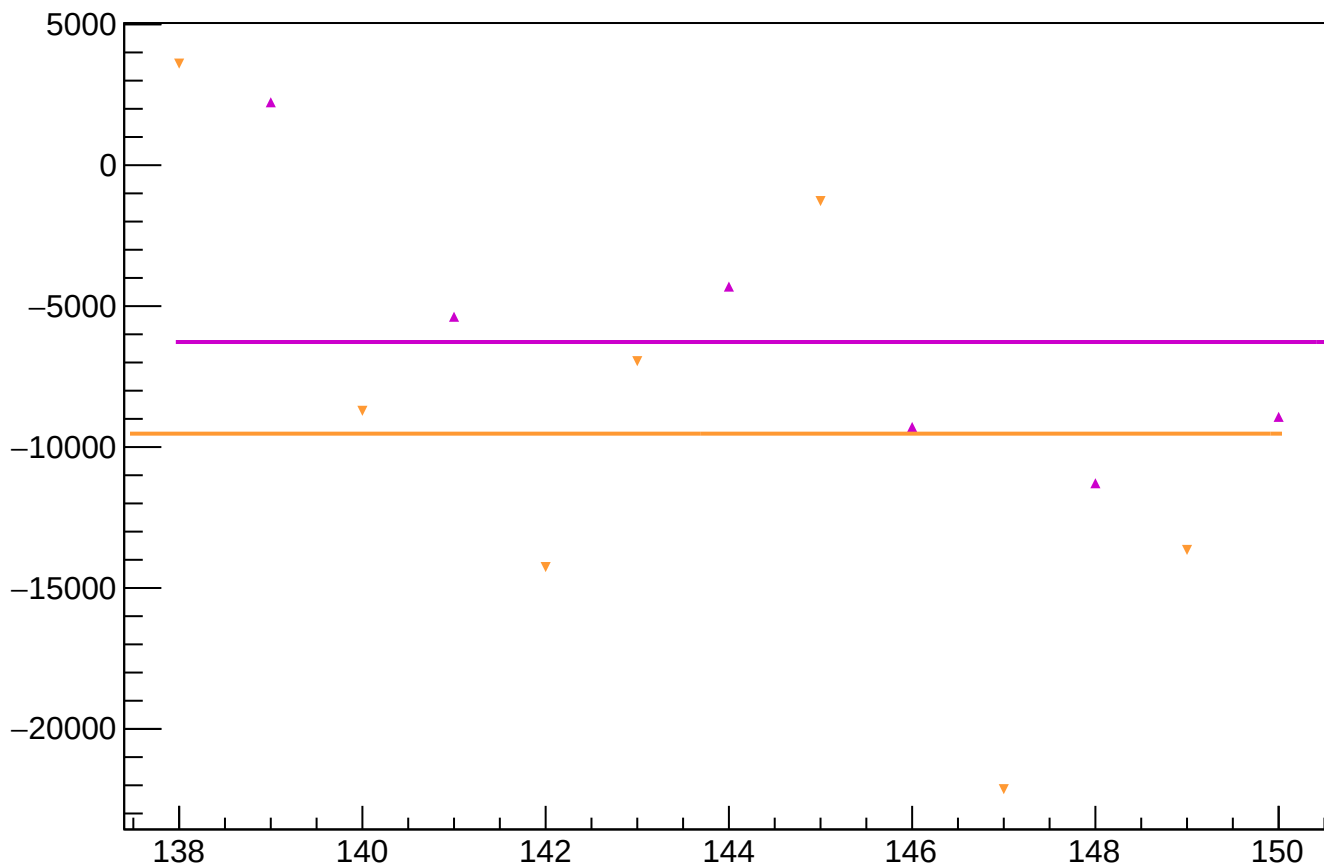
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 232.791+/-0.077  $\chi^2/\text{NDF}$ :444723.3/5

Out: 232.598+/-0.076  $\chi^2/\text{NDF}$ :261291.2/6

All: 232.693+/-0.054  $\chi^2/\text{NDF}$ : 706017.7/12

# asym\_bpm2i01WS\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -9524.401+/-53.073  $\chi^2/\text{NDF}$ :23165.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -6272.949+/-53.883  $\chi^2/\text{NDF}$ :6301.7/5

Left: -7923.293+/-37.812  $\chi^2/\text{NDF}$ : 31314.9/12

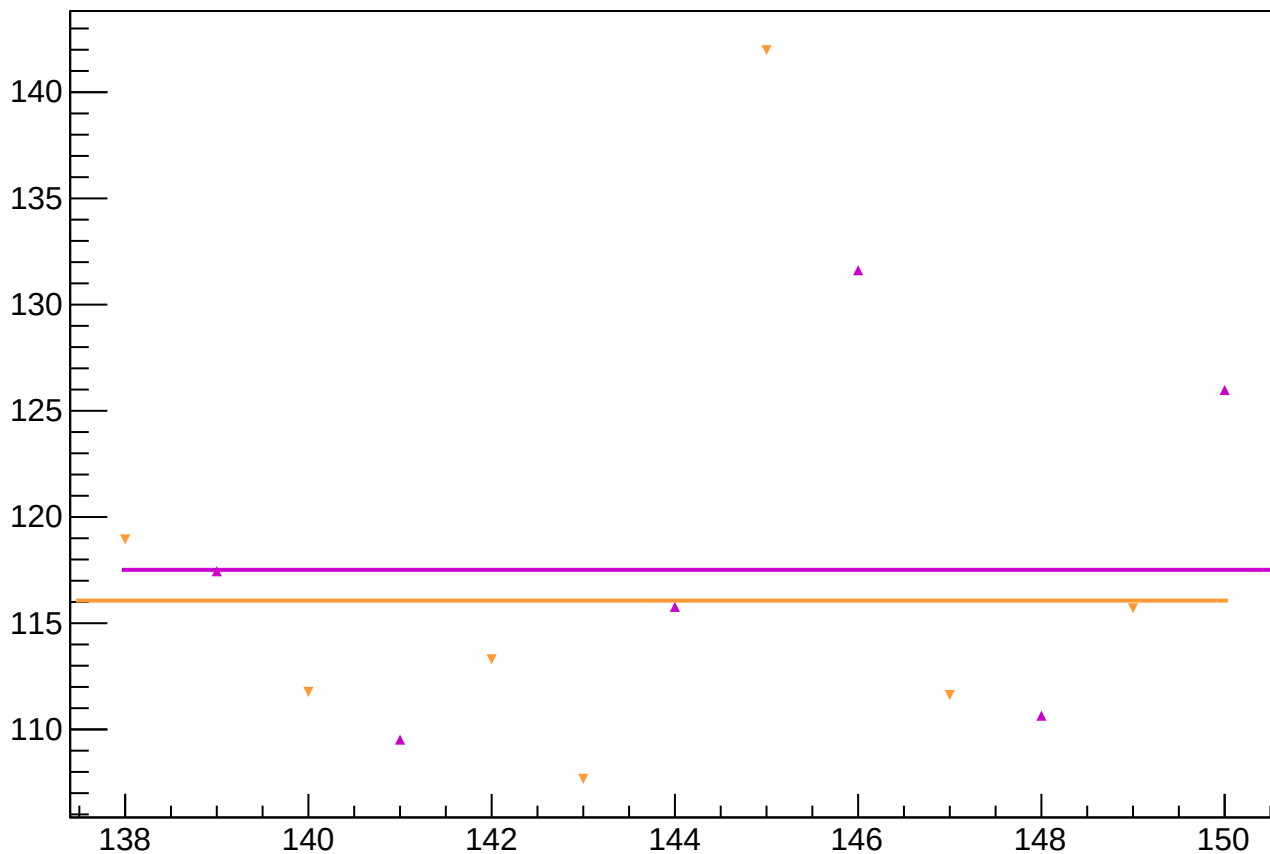
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6272.949+/-53.883  $\chi^2/\text{NDF}$ :6301.7/5

Out: -9524.401+/-53.073  $\chi^2/\text{NDF}$ :23165.1/6

All: -7923.293+/-37.812  $\chi^2/\text{NDF}$ : 31314.9/12

# asym\_bpm2i01WS\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 116.066+/-0.038  $\chi^2/\text{NDF}$ : 63496.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 117.514+/-0.038  $\chi^2/\text{NDF}$ : 41208.6/5

Left: 116.779+/-0.027  $\chi^2/\text{NDF}$ : 105437.5/12

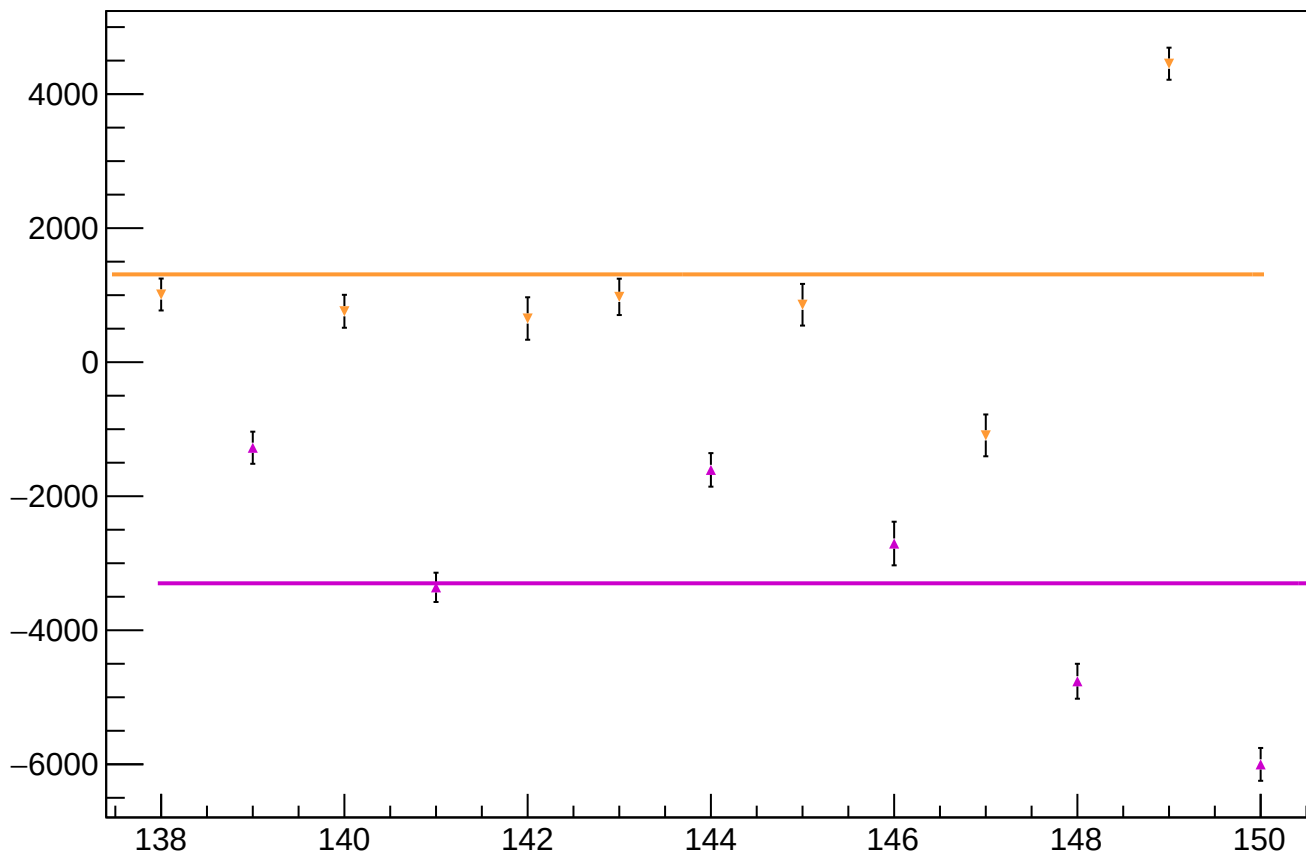
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 117.514+/-0.038  $\chi^2/\text{NDF}$ : 41208.6/5

Out: 116.066+/-0.038  $\chi^2/\text{NDF}$ : 63496.1/6

All: 116.779+/-0.027  $\chi^2/\text{NDF}$ : 105437.5/12

# asym\_bpm0i07WS\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1310.206+/-102.150  $\chi^2/\text{NDF}$ :246.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -3299.325+/-102.512  $\chi^2/\text{NDF}$ :273.5/5

Left: -986.395+/-72.359  $\chi^2/\text{NDF}$ : 1534.4/12

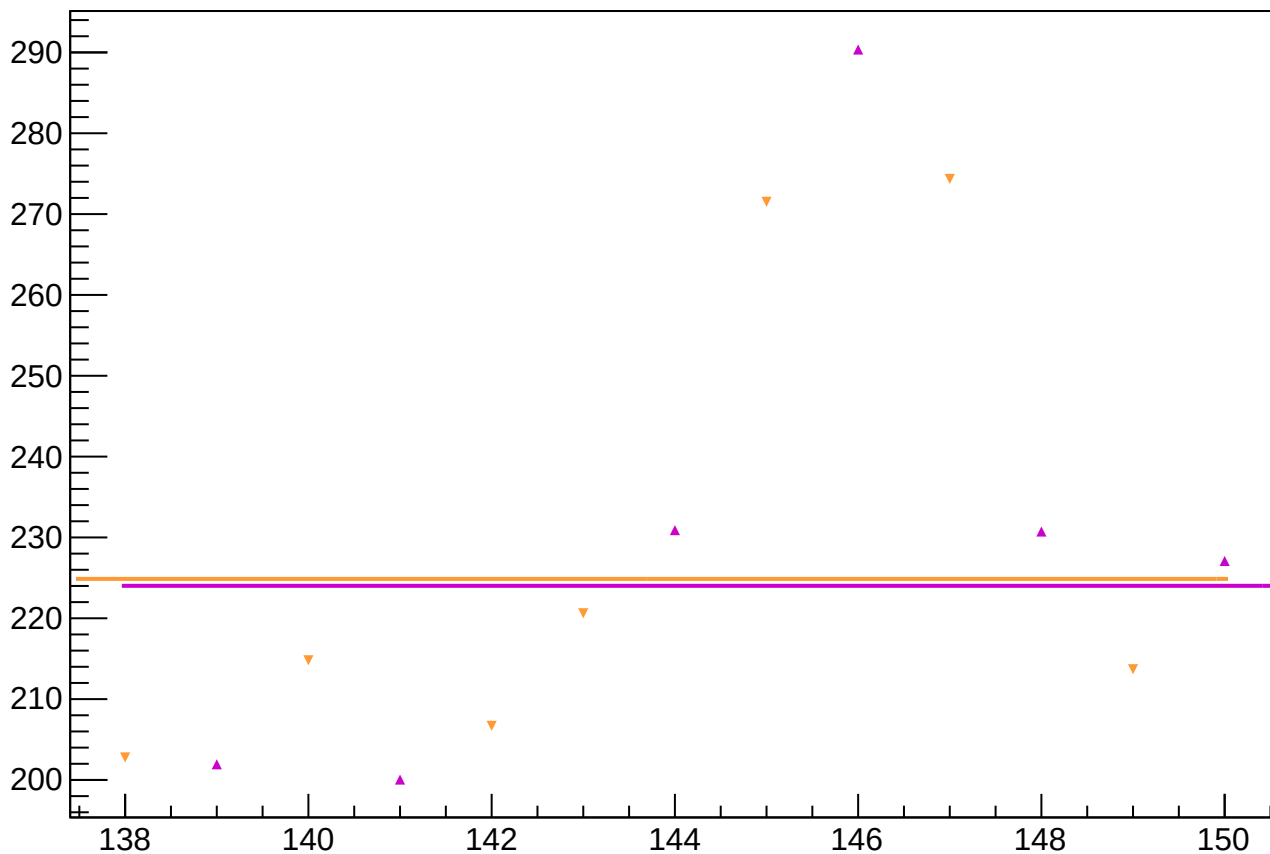
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3299.325+/-102.512  $\chi^2/\text{NDF}$ :273.5/5

Out: 1310.206+/-102.150  $\chi^2/\text{NDF}$ :246.4/6

All: -986.395+/-72.359  $\chi^2/\text{NDF}$ : 1534.4/12

# asym\_bpm0i07WS\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 224.873+/-0.072  $\chi^2/\text{NDF}$ :127286.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 224.017+/-0.072  $\chi^2/\text{NDF}$ :127294.9/5

Left: 224.446+/-0.051  $\chi^2/\text{NDF}$ : 254651.2/12

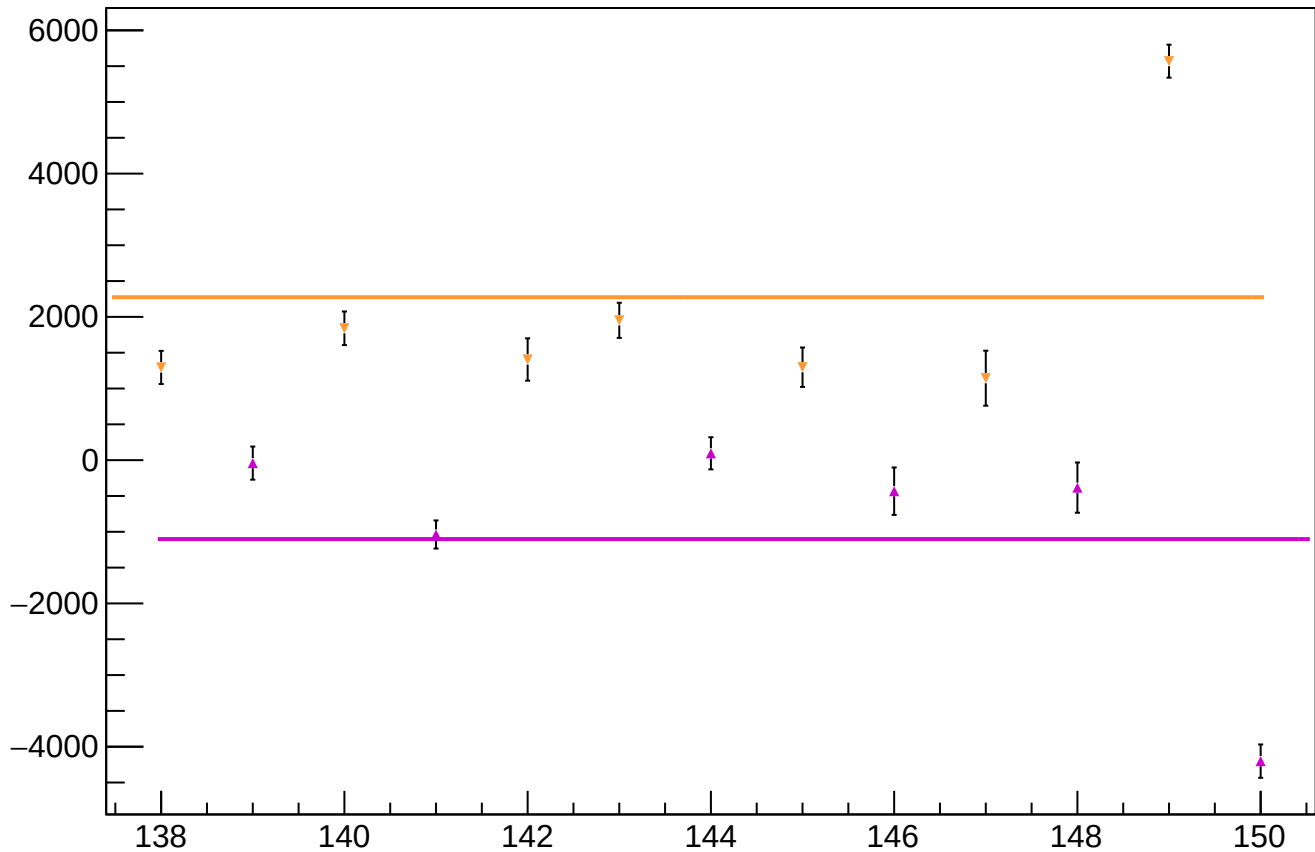
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 224.017+/-0.072  $\chi^2/\text{NDF}$ :127294.9/5

Out: 224.873+/-0.072  $\chi^2/\text{NDF}$ :127286.3/6

All: 224.446+/-0.051  $\chi^2/\text{NDF}$ : 254651.2/12

# asym\_bpm0l01WS\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2274.188+/-98.129  $\chi^2/\text{NDF}$ :257.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1101.948+/-99.846  $\chi^2/\text{NDF}$ :235.5/5

Left: 615.395+/-69.987  $\chi^2/\text{NDF}$ : 1074.8/12

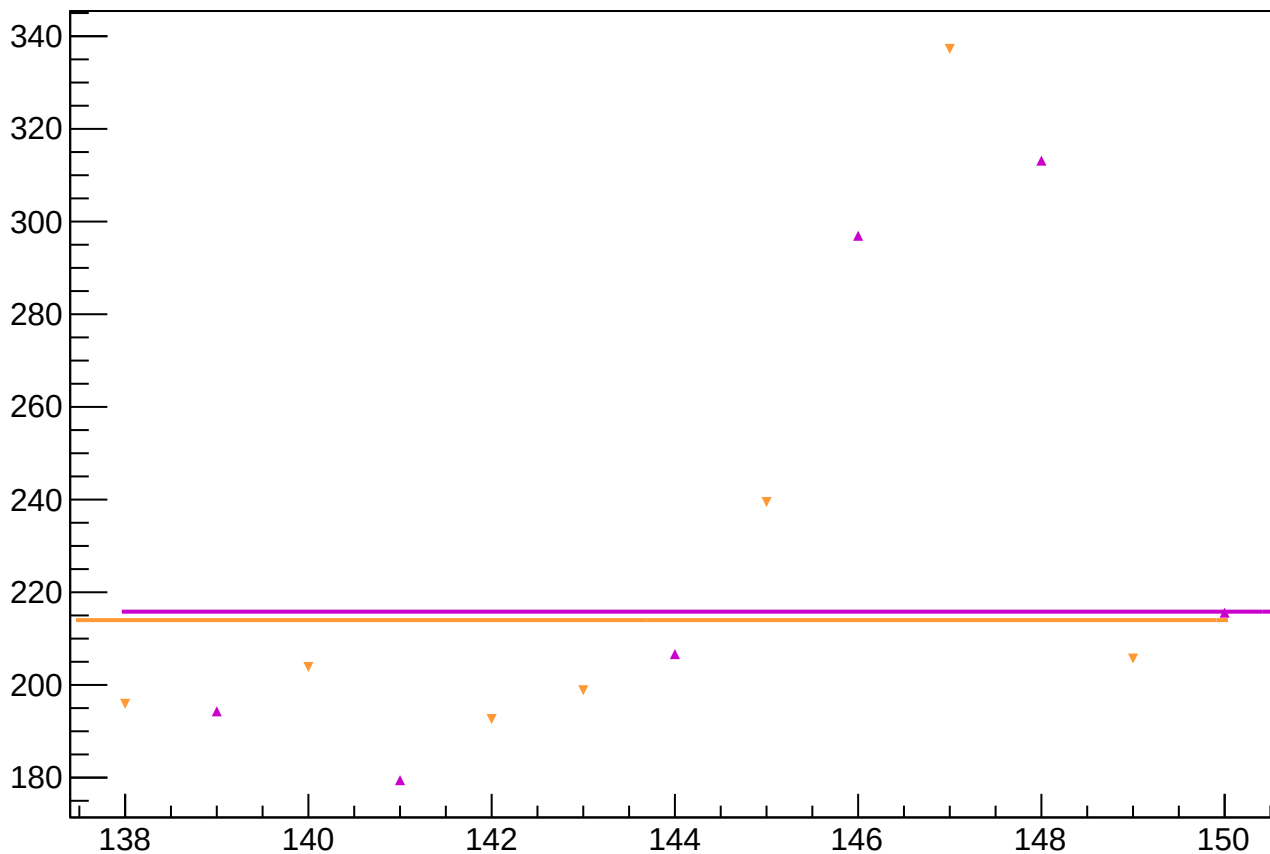
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1101.948+/-99.846  $\chi^2/\text{NDF}$ :235.5/5

Out: 2274.188+/-98.129  $\chi^2/\text{NDF}$ :257.7/6

All: 615.395+/-69.987  $\chi^2/\text{NDF}$ : 1074.8/12

# asym\_bpm0l01WS\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 213.987+/-0.069  $\chi^2/\text{NDF}$ :260134.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 215.815+/-0.071  $\chi^2/\text{NDF}$ :363771.0/5

Left: 214.885+/-0.049  $\chi^2/\text{NDF}$ : 624246.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 215.815+/-0.071  $\chi^2/\text{NDF}$ :363771.0/5

Out: 213.987+/-0.069  $\chi^2/\text{NDF}$ :260134.9/6

All: 214.885+/-0.049  $\chi^2/\text{NDF}$ : 624246.9/12



# bcm\_an\_us\_ds\_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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

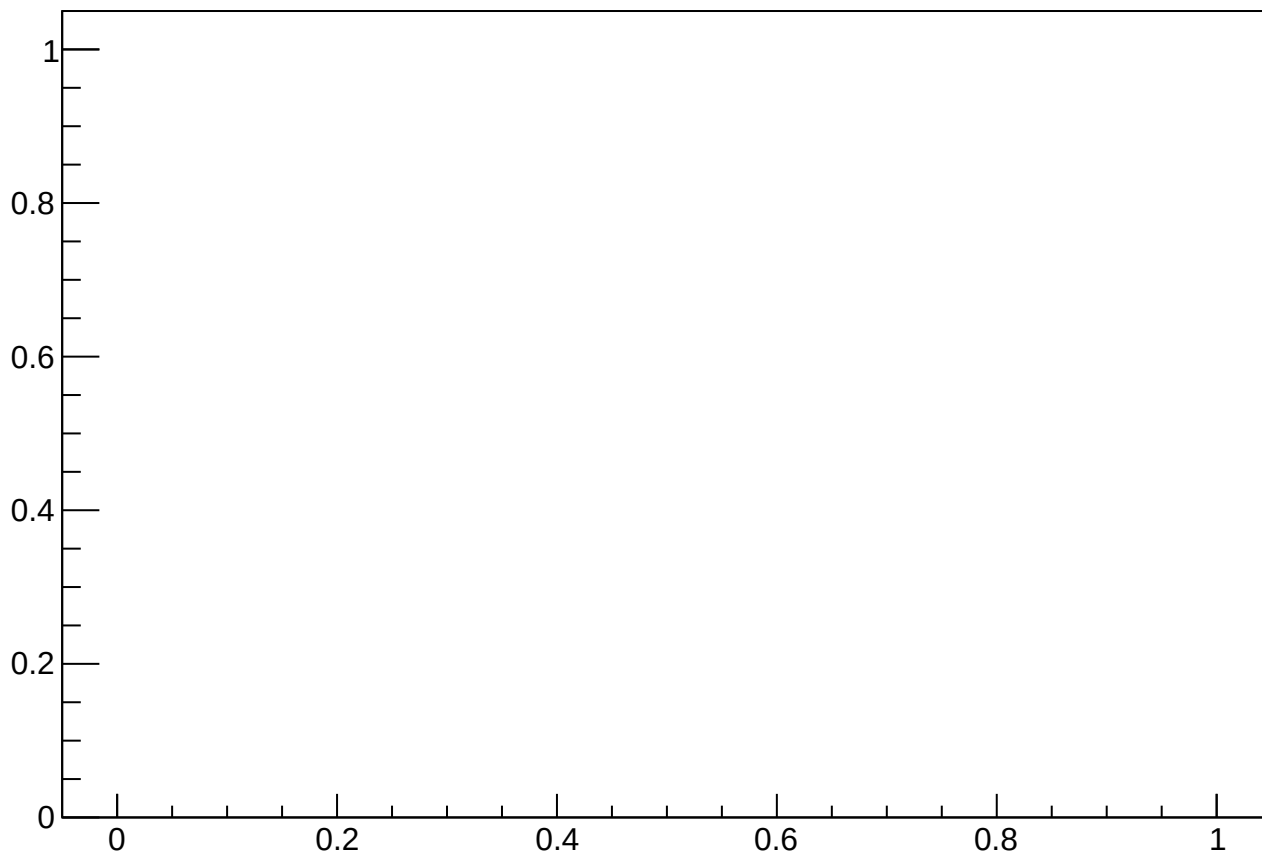
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

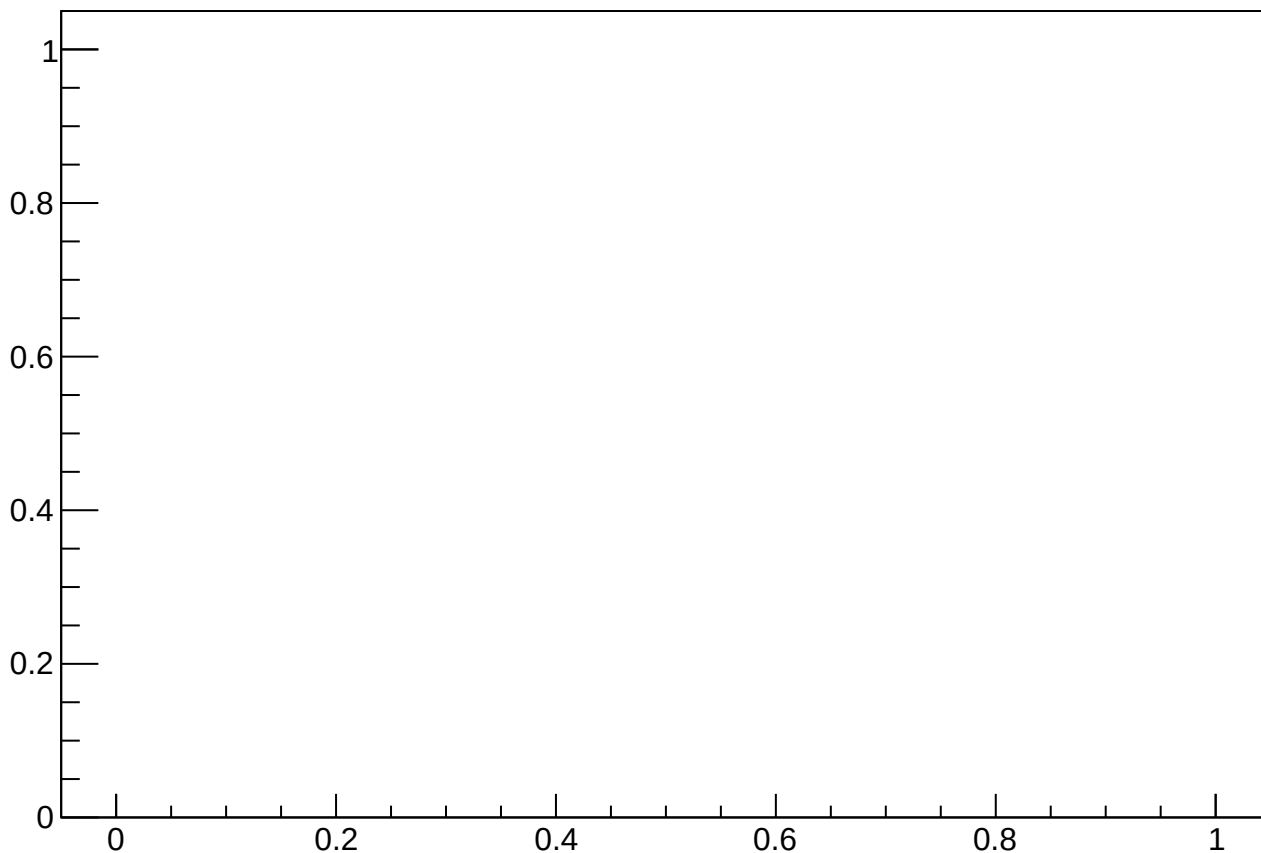
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 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  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

bcm\_dg\_us\_dg\_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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

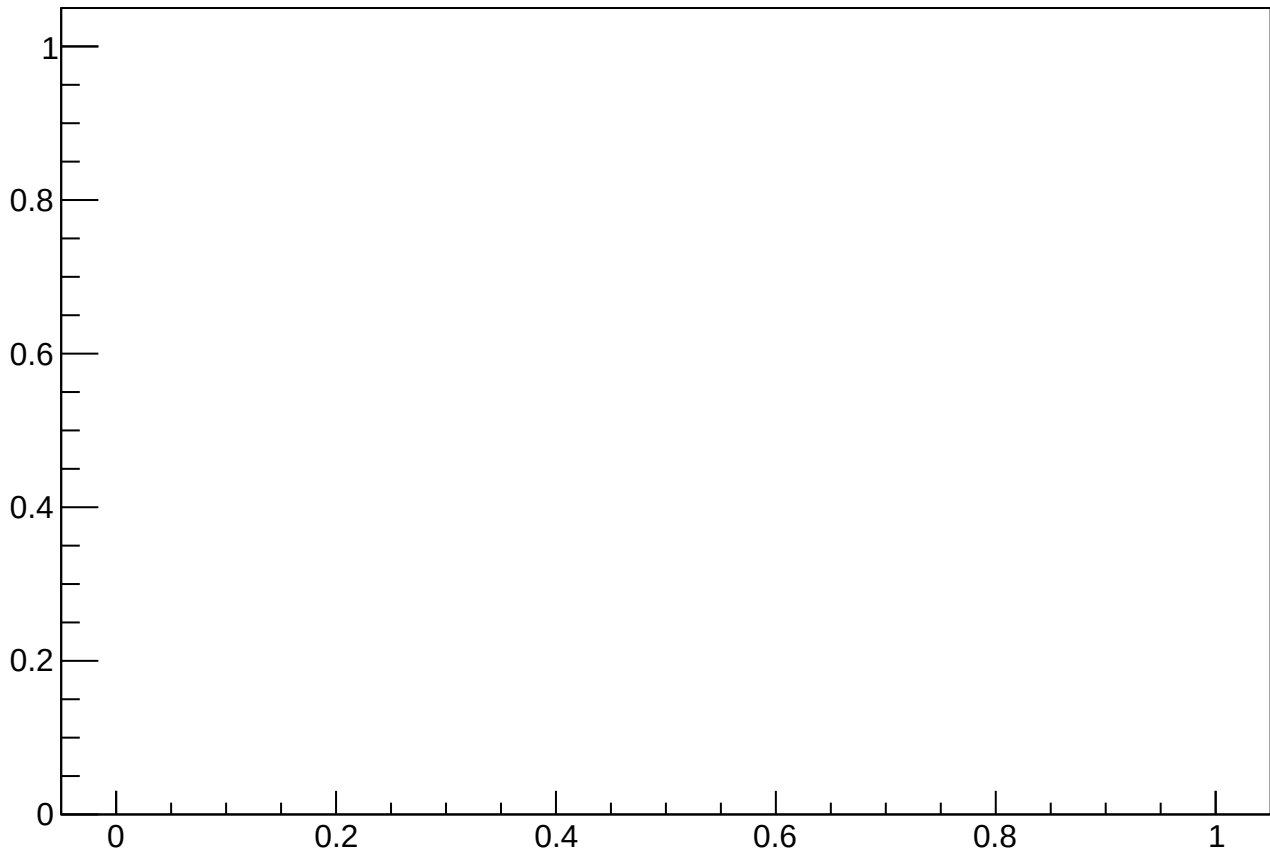
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_us\_ds\_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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

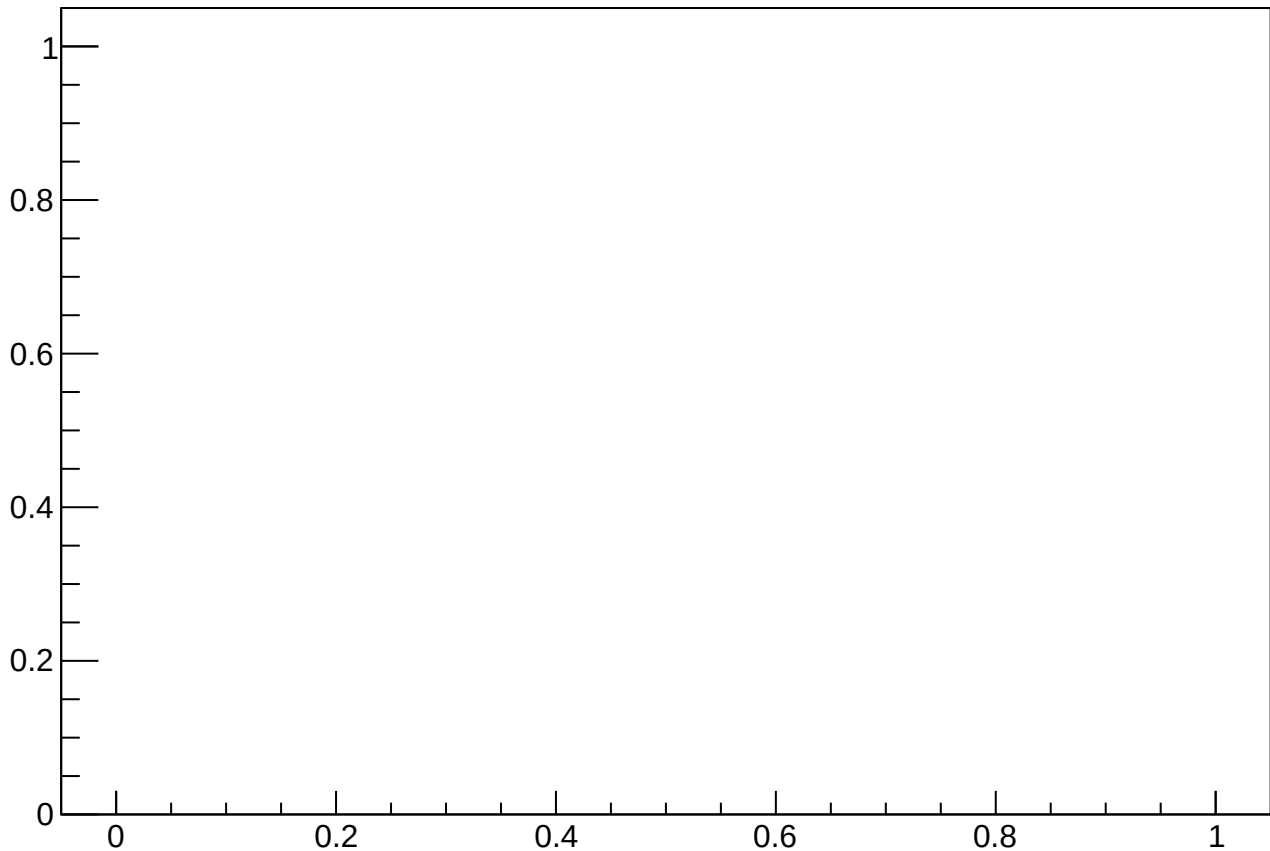
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 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  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

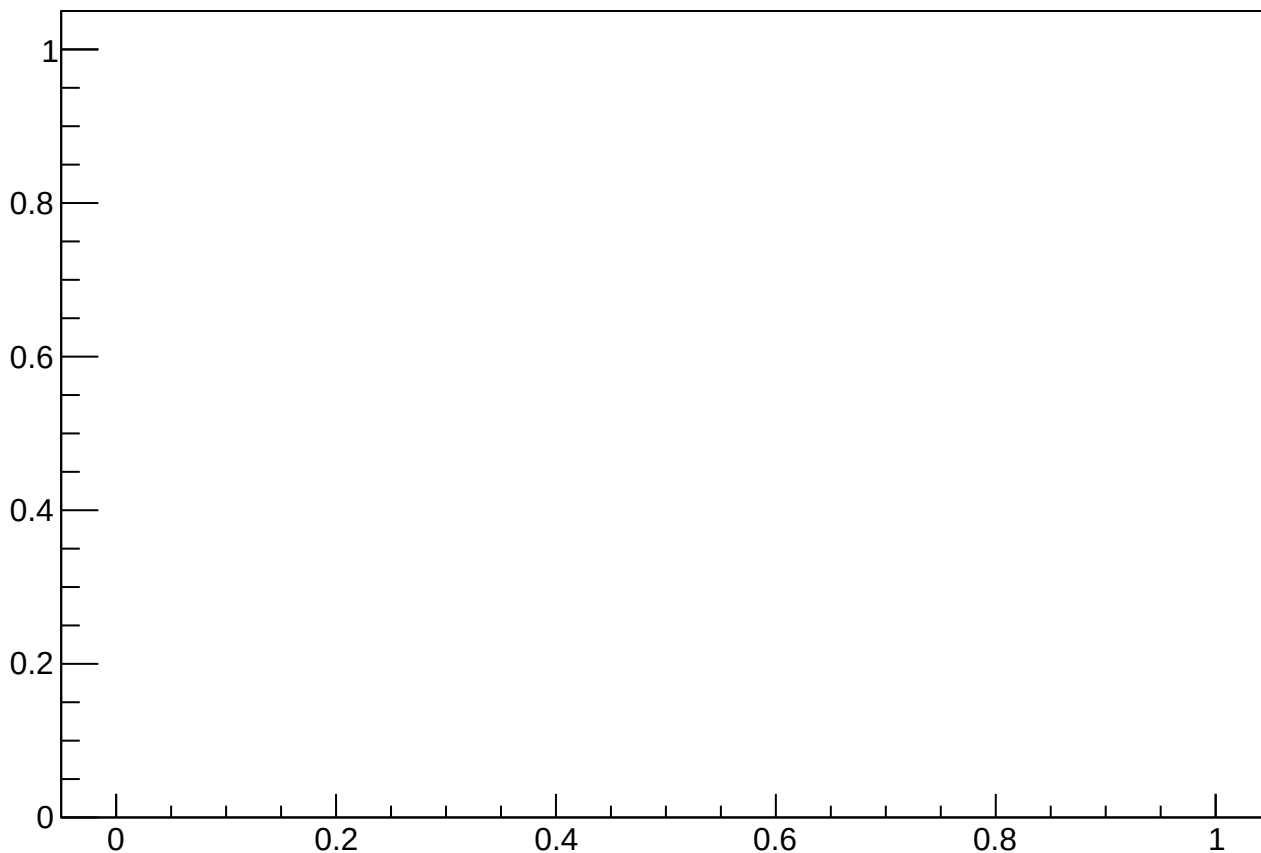
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

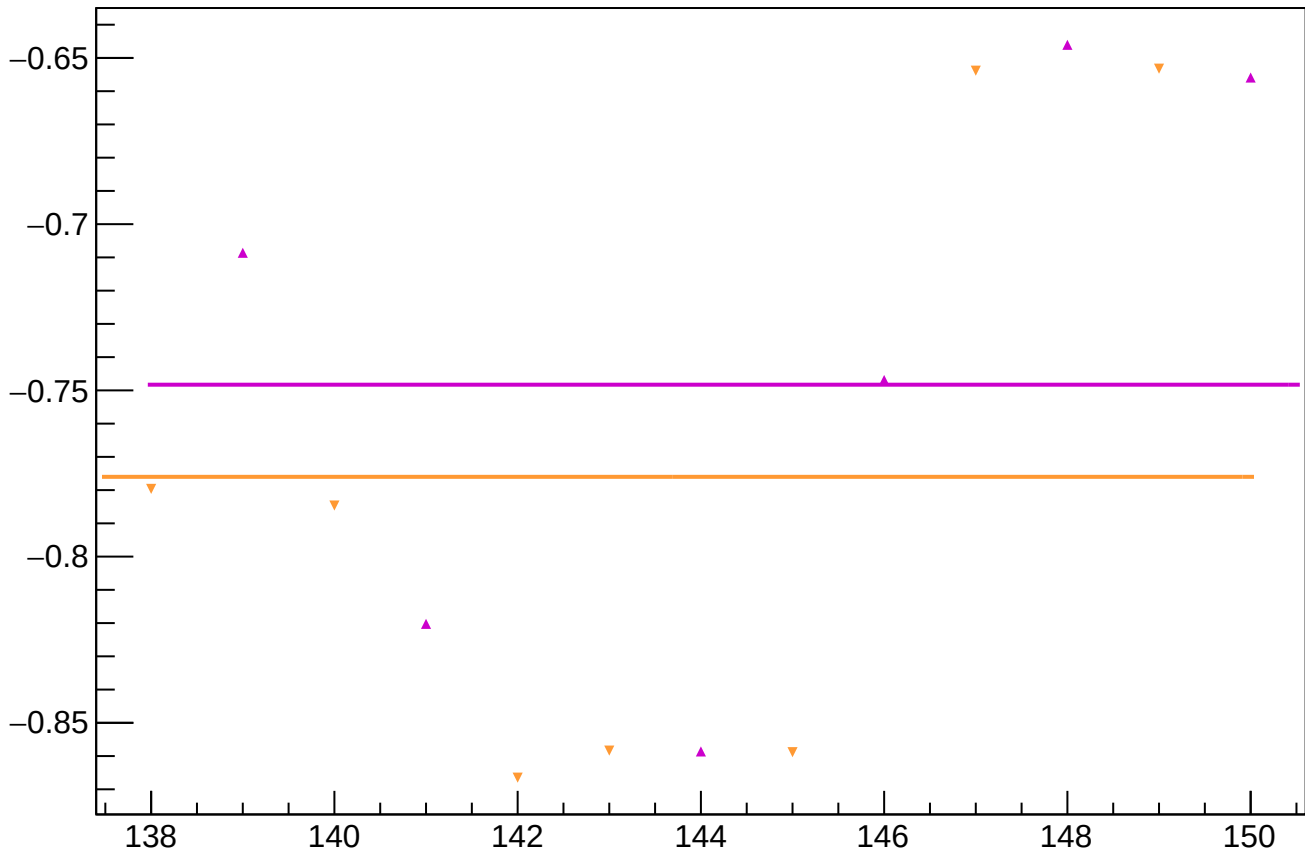
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4bX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.776+/-0.000  $\chi^2/\text{NDF}$ : 41157637.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.748+/-0.000  $\chi^2/\text{NDF}$ : 32085725.8/5

Left: -0.763+/-0.000  $\chi^2/\text{NDF}$ : 74897087.8/12

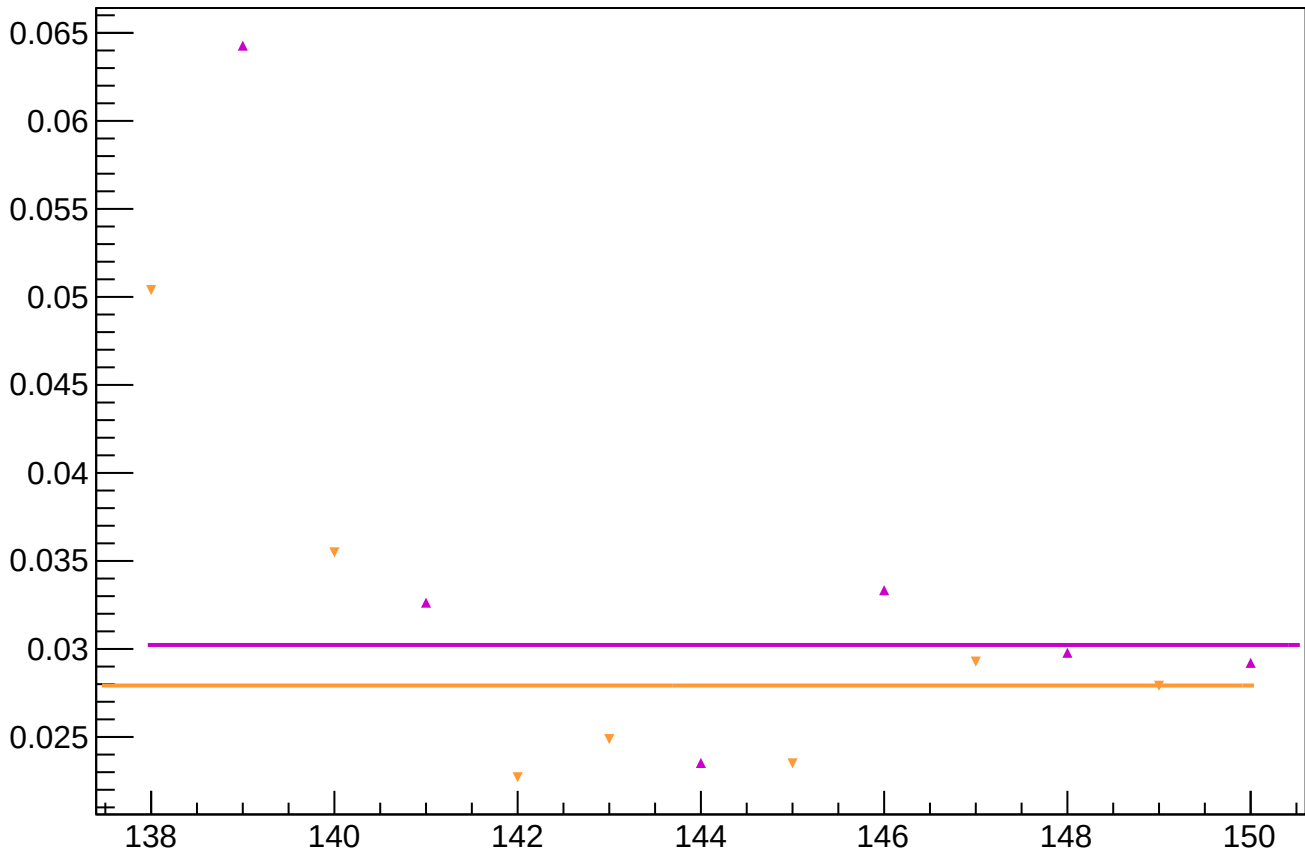
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.748+/-0.000  $\chi^2/\text{NDF}$ : 32085725.8/5

Out: -0.776+/-0.000  $\chi^2/\text{NDF}$ : 41157637.9/6

All: -0.763+/-0.000  $\chi^2/\text{NDF}$ : 74897087.8/12

# yield\_cav4bX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.028+/-0.000  $\chi^2/\text{NDF}$ :376527.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.030+/-0.000  $\chi^2/\text{NDF}$ :513931.3/5

Left: 0.029+/-0.000  $\chi^2/\text{NDF}$ : 913290.5/12

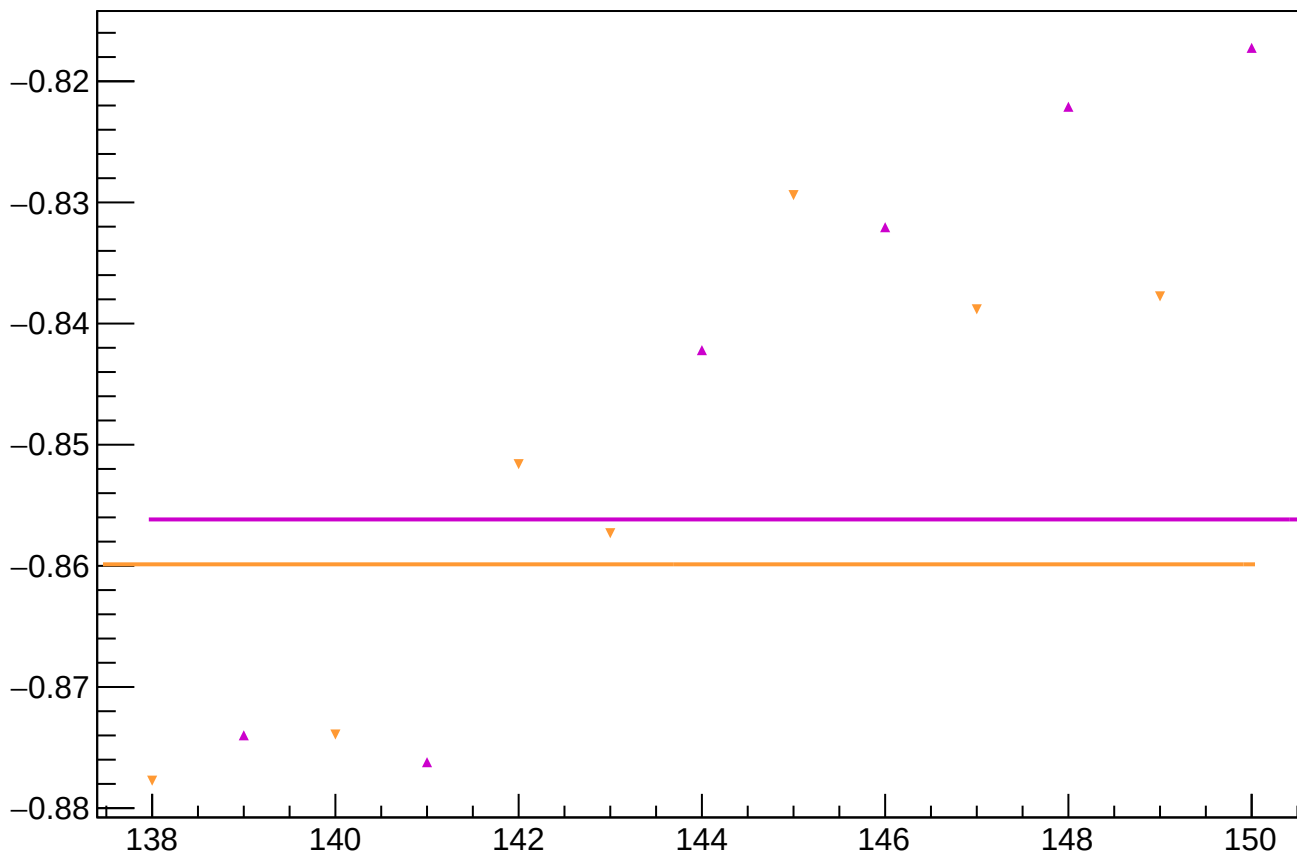
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.030+/-0.000  $\chi^2/\text{NDF}$ :513931.3/5

Out: 0.028+/-0.000  $\chi^2/\text{NDF}$ :376527.7/6

All: 0.029+/-0.000  $\chi^2/\text{NDF}$ : 913290.5/12

# yield\_cav4bY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.860+/-0.000  $\chi^2/\text{NDF}$ :15061873.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.856+/-0.000  $\chi^2/\text{NDF}$ :21056618.5/5

Left: -0.858+/-0.000  $\chi^2/\text{NDF}$ : 36383441.0/12

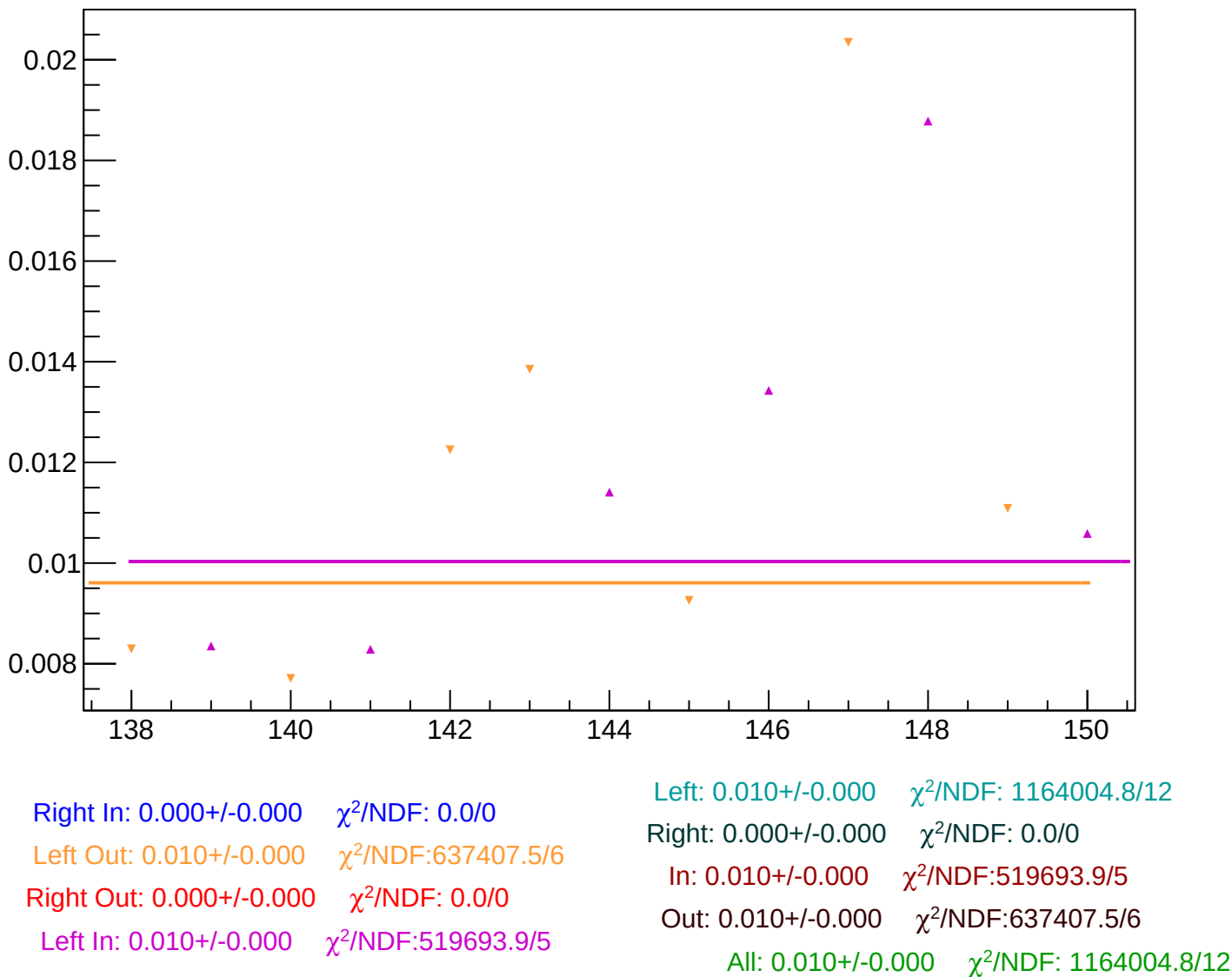
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.856+/-0.000  $\chi^2/\text{NDF}$ :21056618.5/5

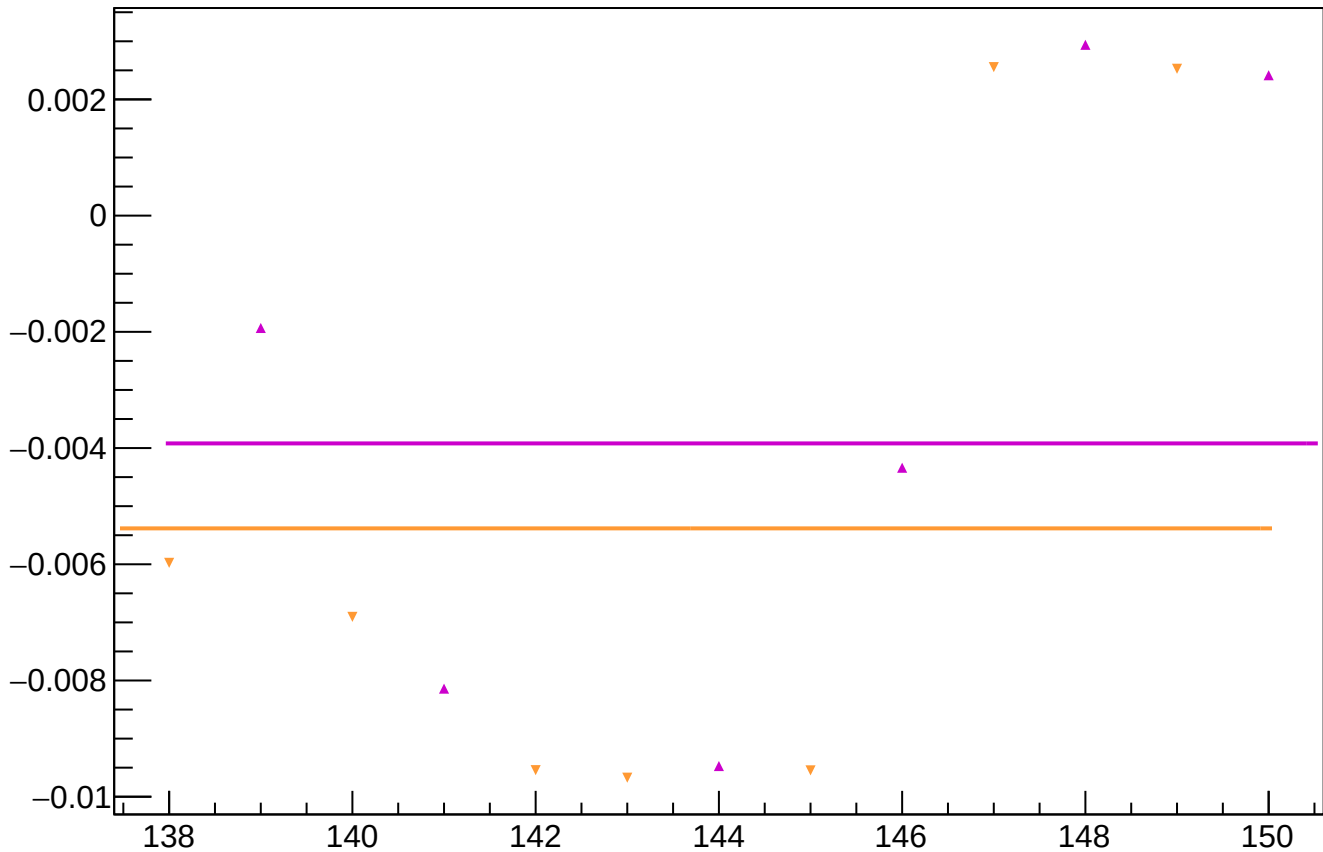
Out: -0.860+/-0.000  $\chi^2/\text{NDF}$ :15061873.5/6

All: -0.858+/-0.000  $\chi^2/\text{NDF}$ : 36383441.0/12

# yield\_cav4bY\_rms vs Slug, Sign Corrected



# yield\_cav4cX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.005+/-0.000  $\chi^2/\text{NDF}$ : 47458202.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.004+/-0.000  $\chi^2/\text{NDF}$ : 40101902.8/5

Left: -0.005+/-0.000  $\chi^2/\text{NDF}$ : 89300162.2/12

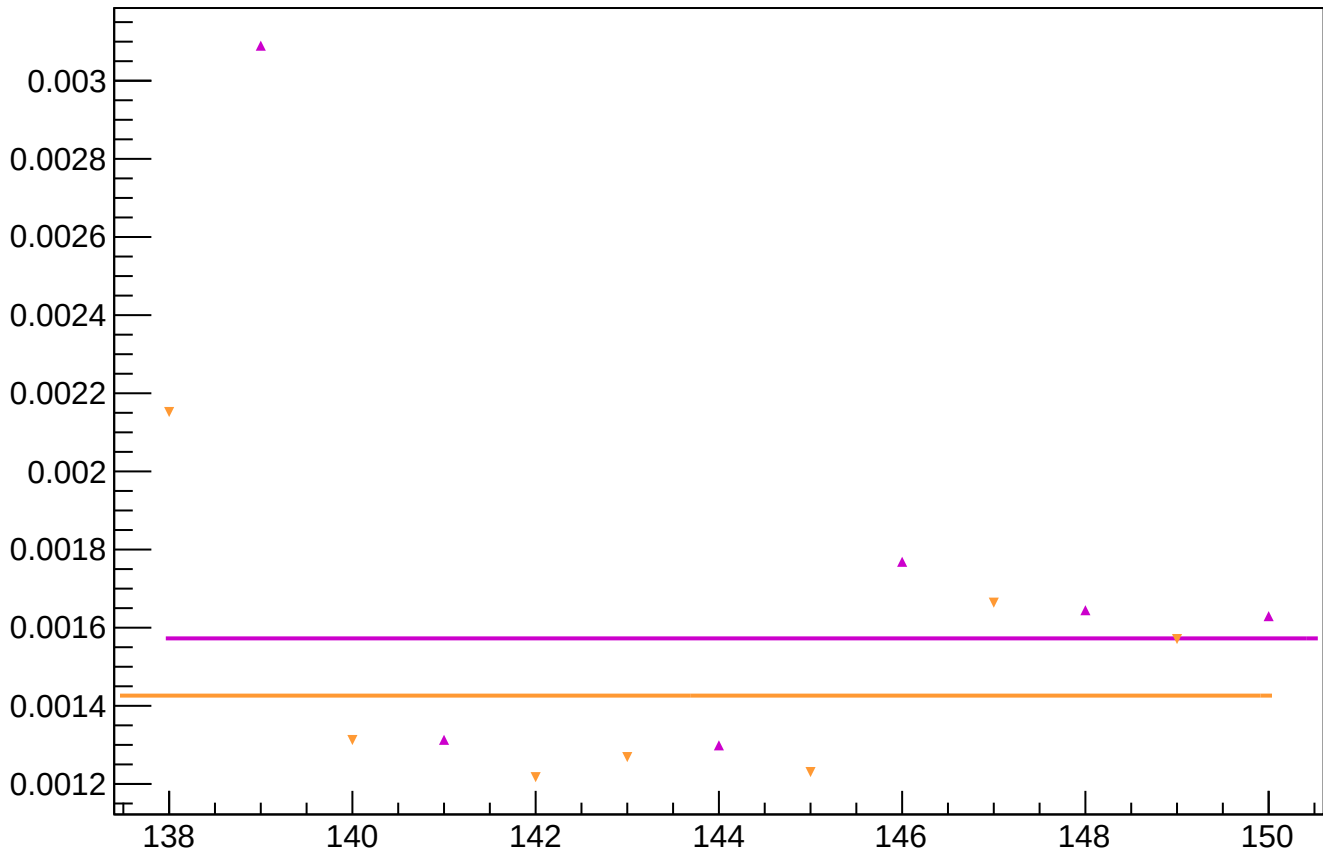
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.004+/-0.000  $\chi^2/\text{NDF}$ : 40101902.8/5

Out: -0.005+/-0.000  $\chi^2/\text{NDF}$ : 47458202.3/6

All: -0.005+/-0.000  $\chi^2/\text{NDF}$ : 89300162.2/12

# yield\_cav4cX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ :239297.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.002+/-0.000  $\chi^2/\text{NDF}$ :468130.9/5

Left: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 742353.9/12

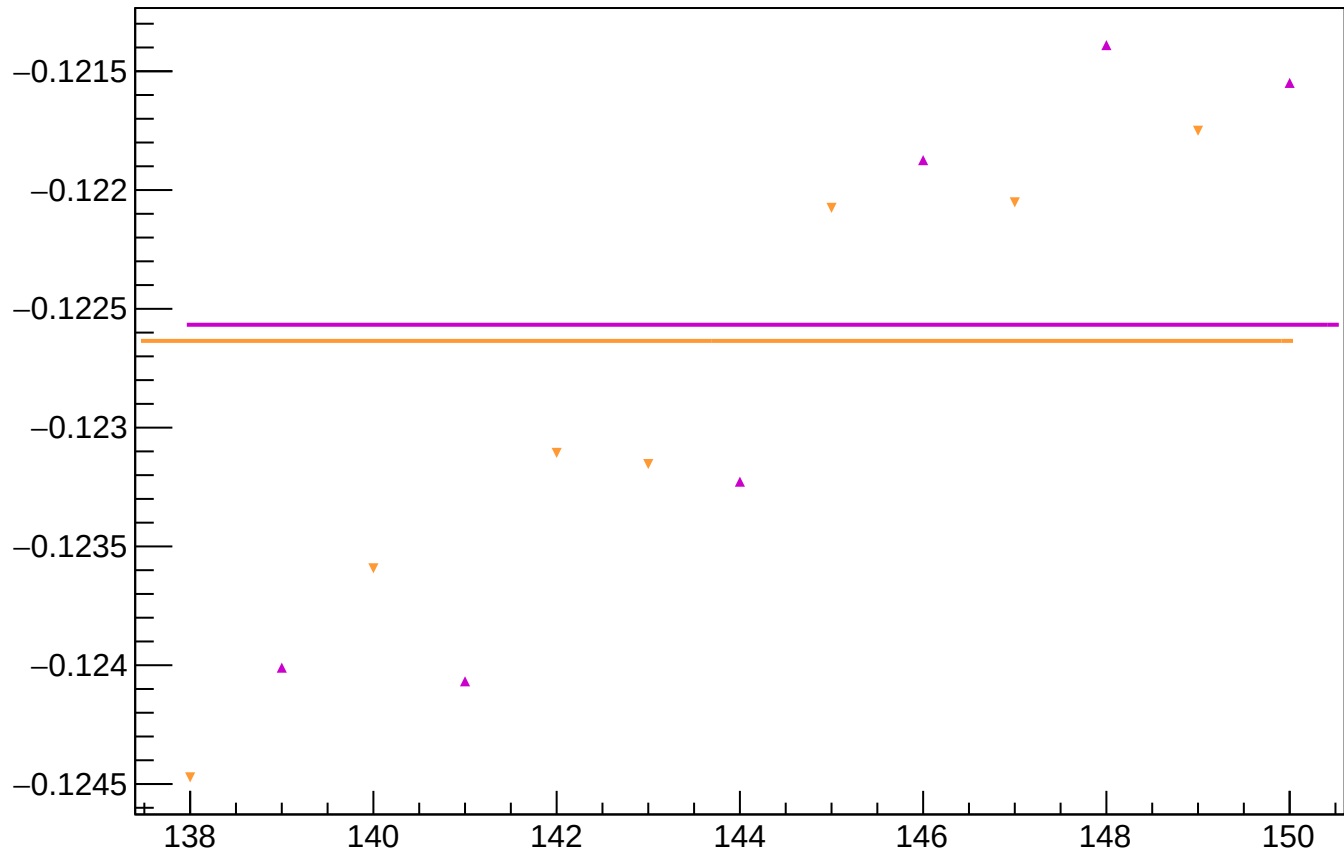
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.002+/-0.000  $\chi^2/\text{NDF}$ :468130.9/5

Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ :239297.3/6

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 742353.9/12

# yield\_cav4cY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.123+/-0.000  $\chi^2/\text{NDF}$ : 2750361.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.123+/-0.000  $\chi^2/\text{NDF}$ : 3738716.7/5

Left: -0.123+/-0.000  $\chi^2/\text{NDF}$ : 6497819.7/12

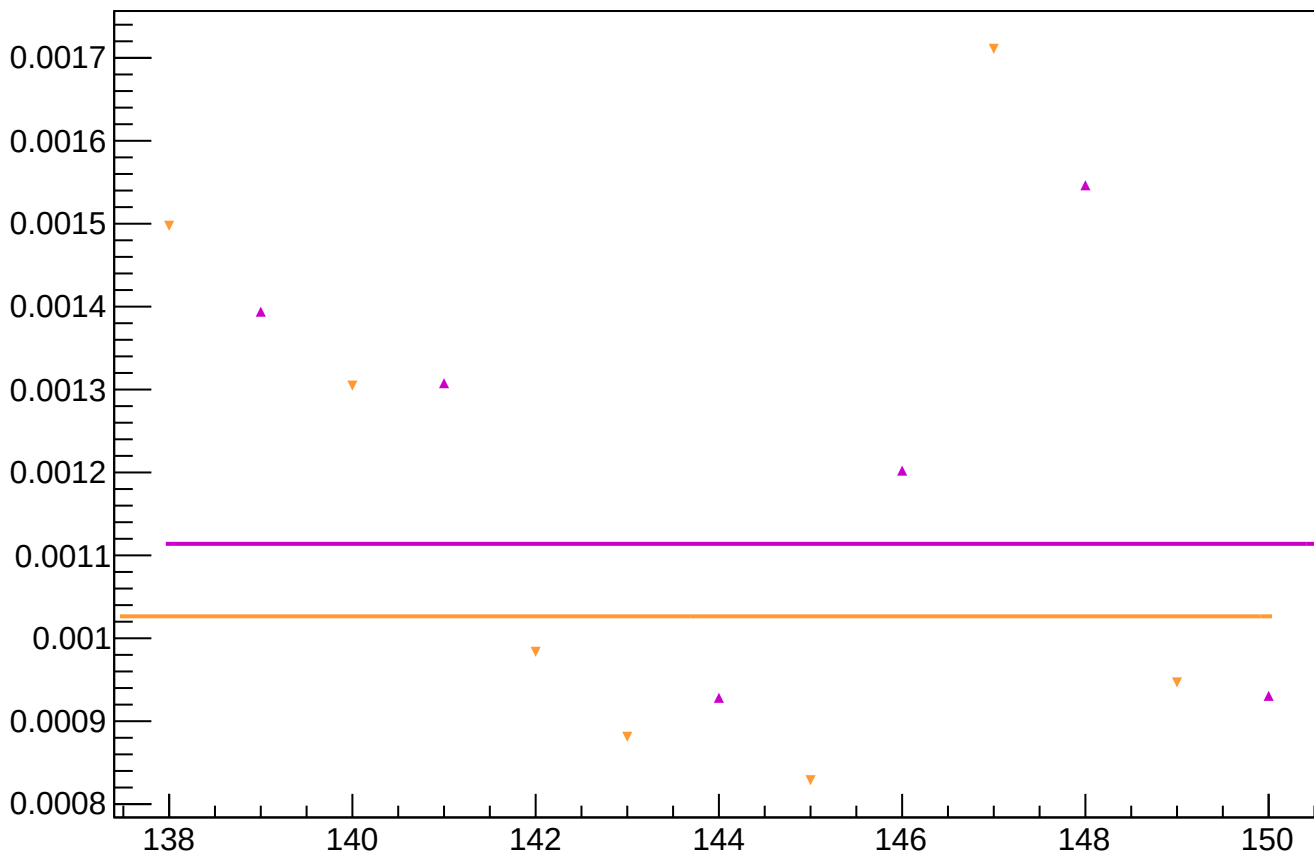
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.123+/-0.000  $\chi^2/\text{NDF}$ : 3738716.7/5

Out: -0.123+/-0.000  $\chi^2/\text{NDF}$ : 2750361.0/6

All: -0.123+/-0.000  $\chi^2/\text{NDF}$ : 6497819.7/12

# yield\_cav4cY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ :558617.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.001+/-0.000  $\chi^2/\text{NDF}$ :341215.2/5

Left: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 928825.2/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

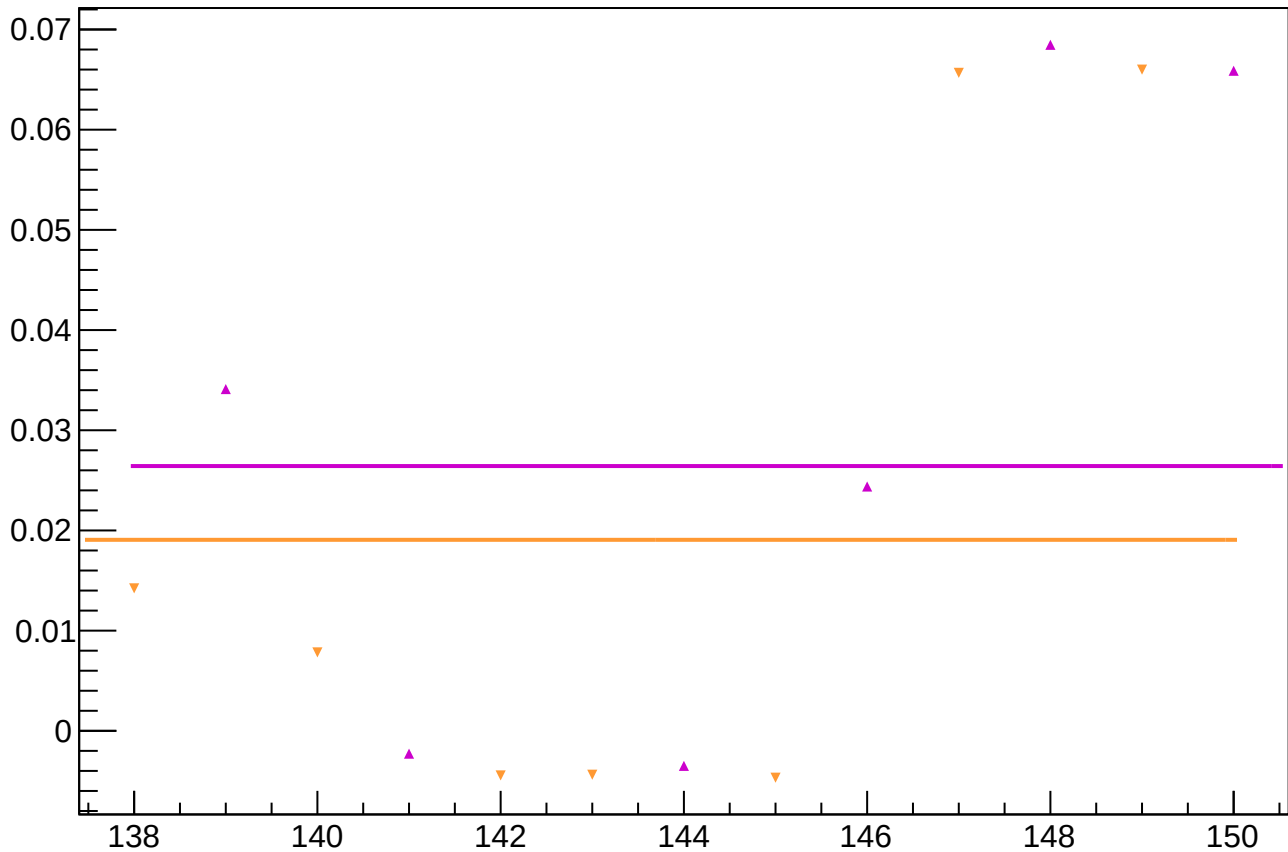
In: 0.001+/-0.000  $\chi^2/\text{NDF}$ :341215.2/5

Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ :558617.8/6

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 928825.2/12



# yield\_cav4dX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 47093069.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 42946901.1/5

Left: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 91325518.8/12

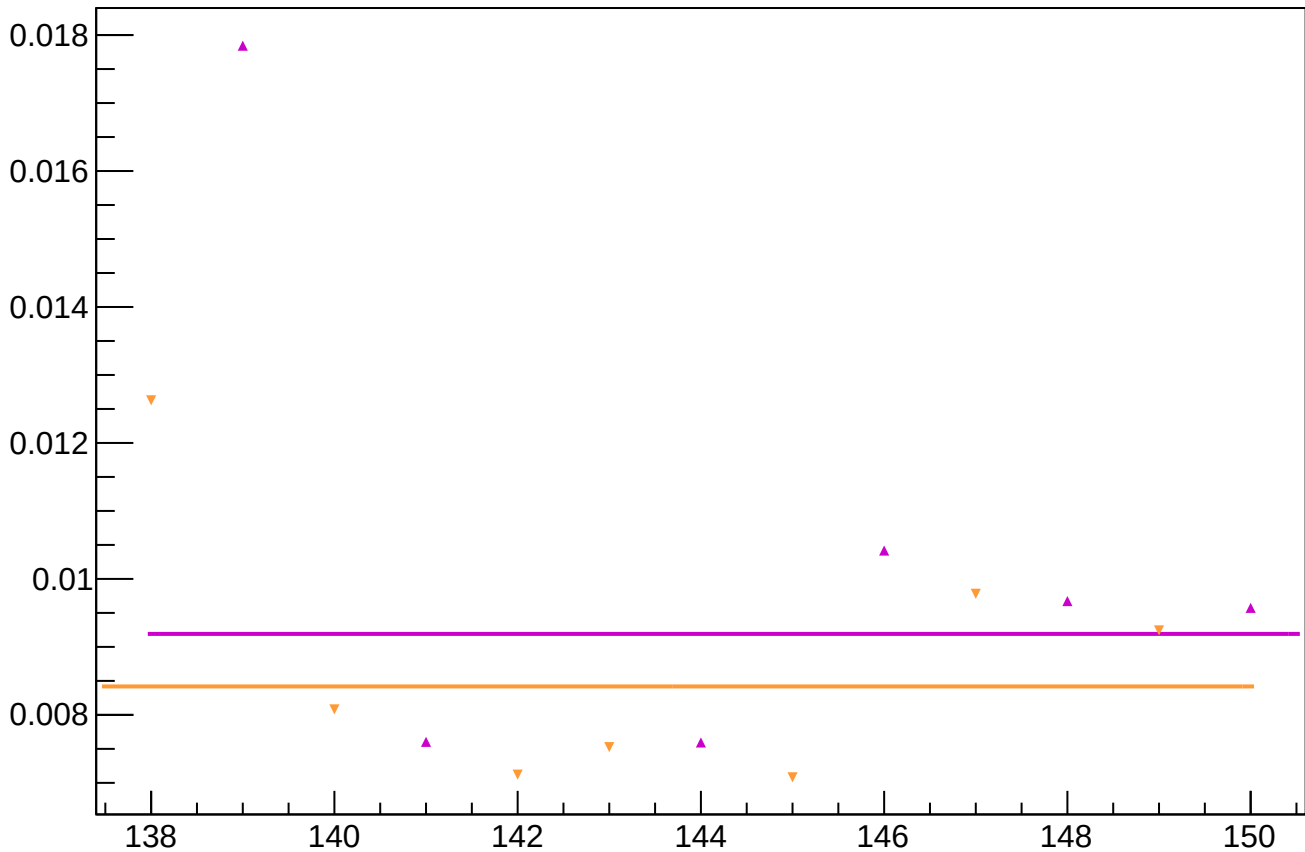
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 42946901.1/5

Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 47093069.6/6

All: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 91325518.8/12

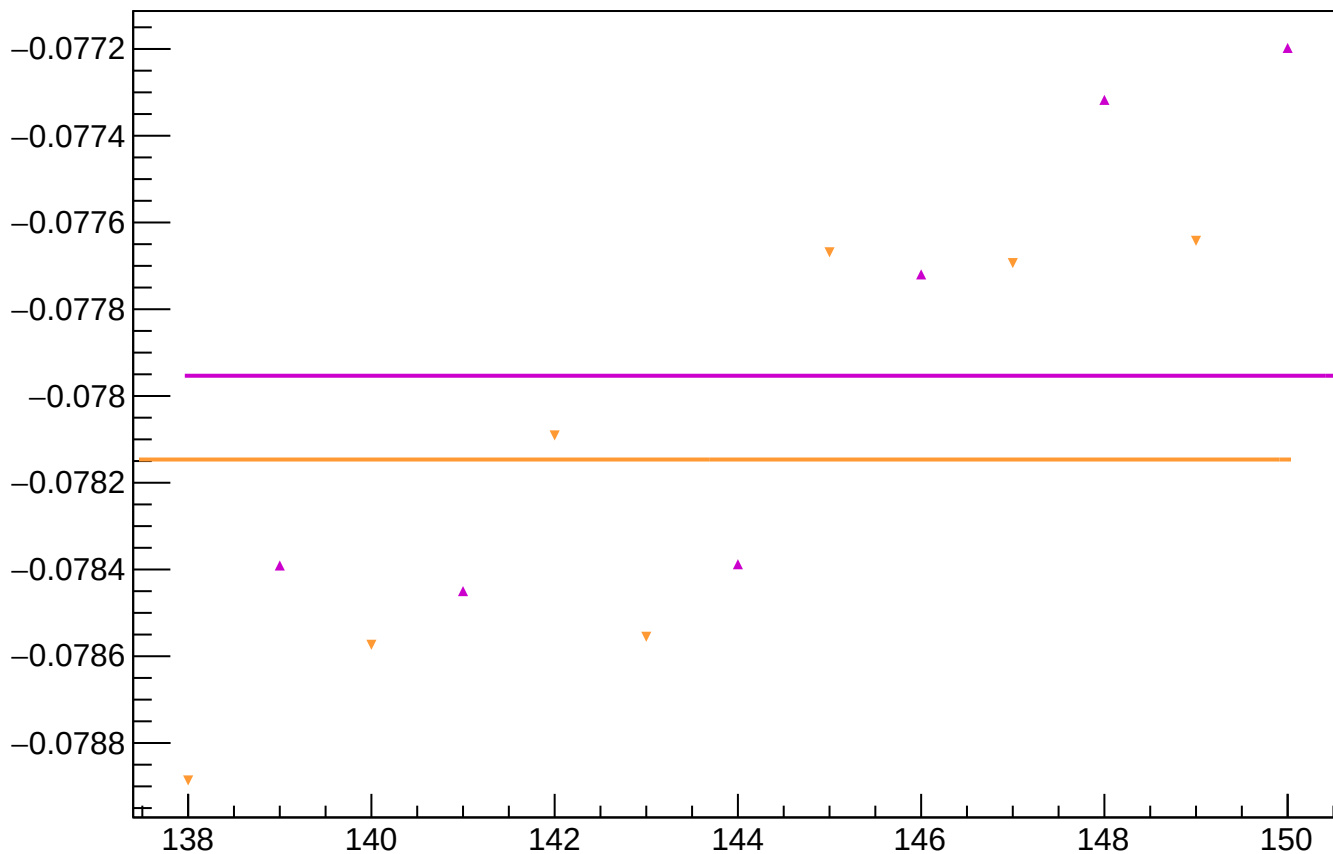
# yield\_cav4dX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 242372.9/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 467770.4/5

Left: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 738464.3/12  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 467770.4/5  
Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 242372.9/6  
All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 738464.3/12

# yield\_cav4dY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.078+/-0.000  $\chi^2/\text{NDF}$ : 3266571.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.078+/-0.000  $\chi^2/\text{NDF}$ : 3810752.1/5

Left: -0.078+/-0.000  $\chi^2/\text{NDF}$ : 7328717.5/12

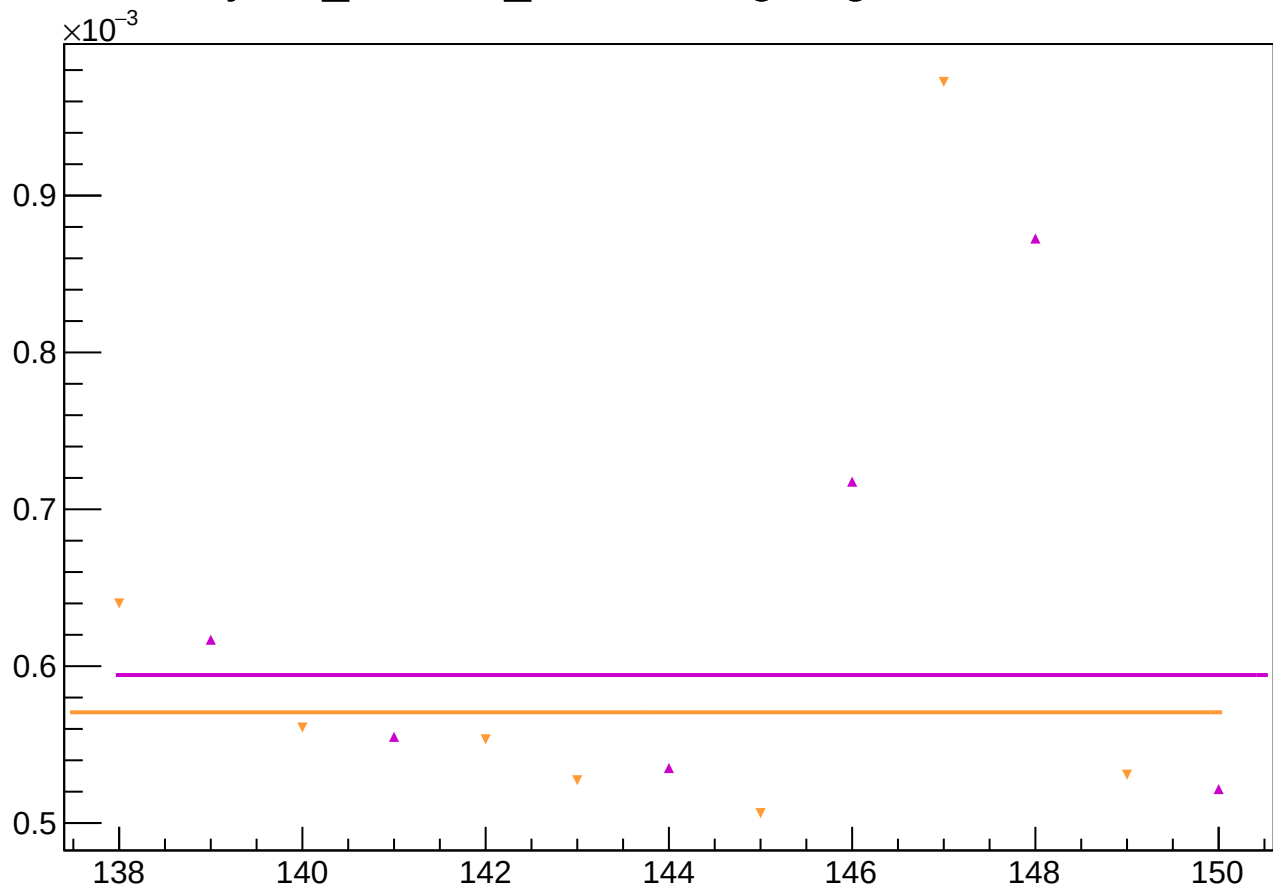
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.078+/-0.000  $\chi^2/\text{NDF}$ : 3810752.1/5

Out: -0.078+/-0.000  $\chi^2/\text{NDF}$ : 3266571.1/6

All: -0.078+/-0.000  $\chi^2/\text{NDF}$ : 7328717.5/12

# yield\_cav4dY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ :314636.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.001+/-0.000  $\chi^2/\text{NDF}$ :262688.2/5

Left: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 584935.3/12

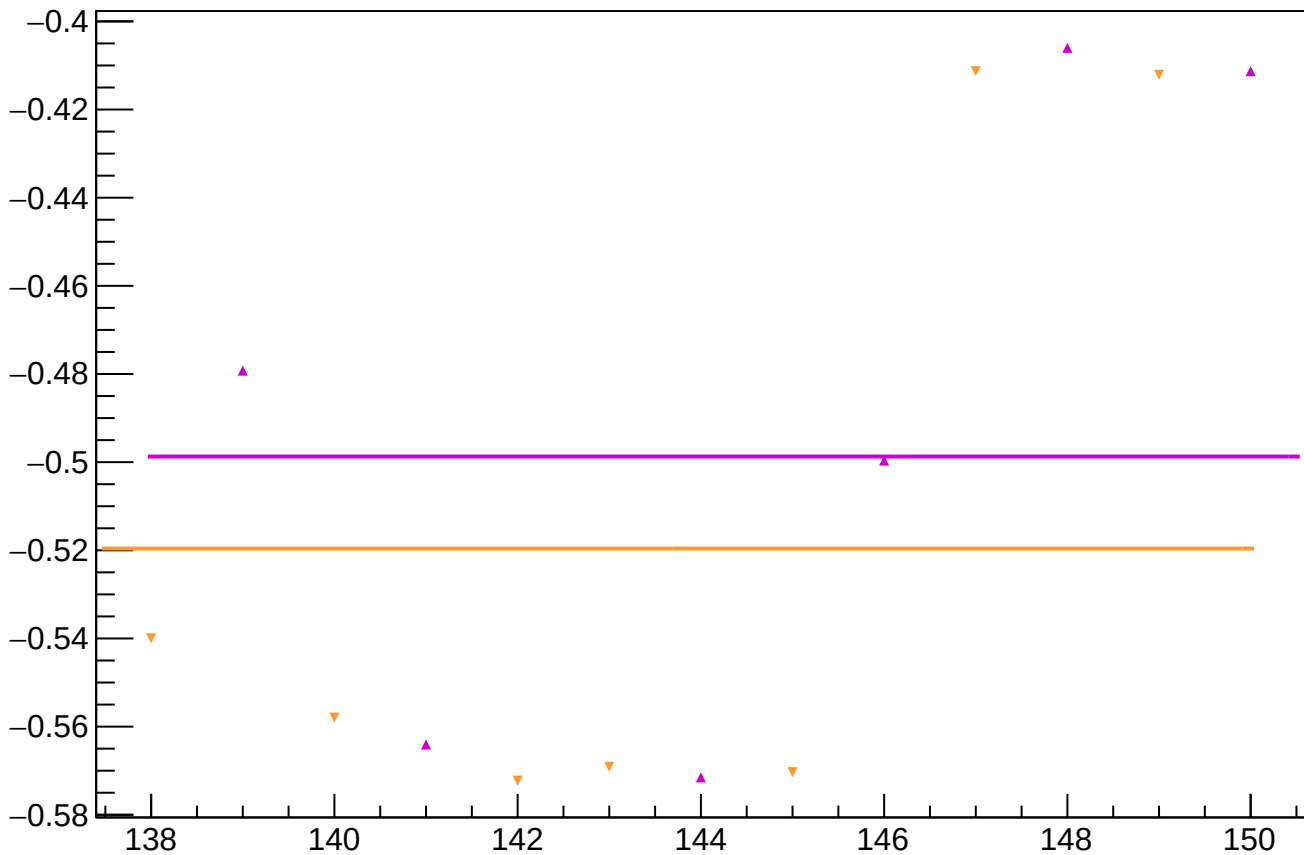
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.001+/-0.000  $\chi^2/\text{NDF}$ :262688.2/5

Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ :314636.8/6

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 584935.3/12

# yield\_bpm4aX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.520+/-0.000  $\chi^2/\text{NDF}$ : 50820627.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.499+/-0.000  $\chi^2/\text{NDF}$ : 45033698.0/5

Left: -0.510+/-0.000  $\chi^2/\text{NDF}$ : 97942882.6/12

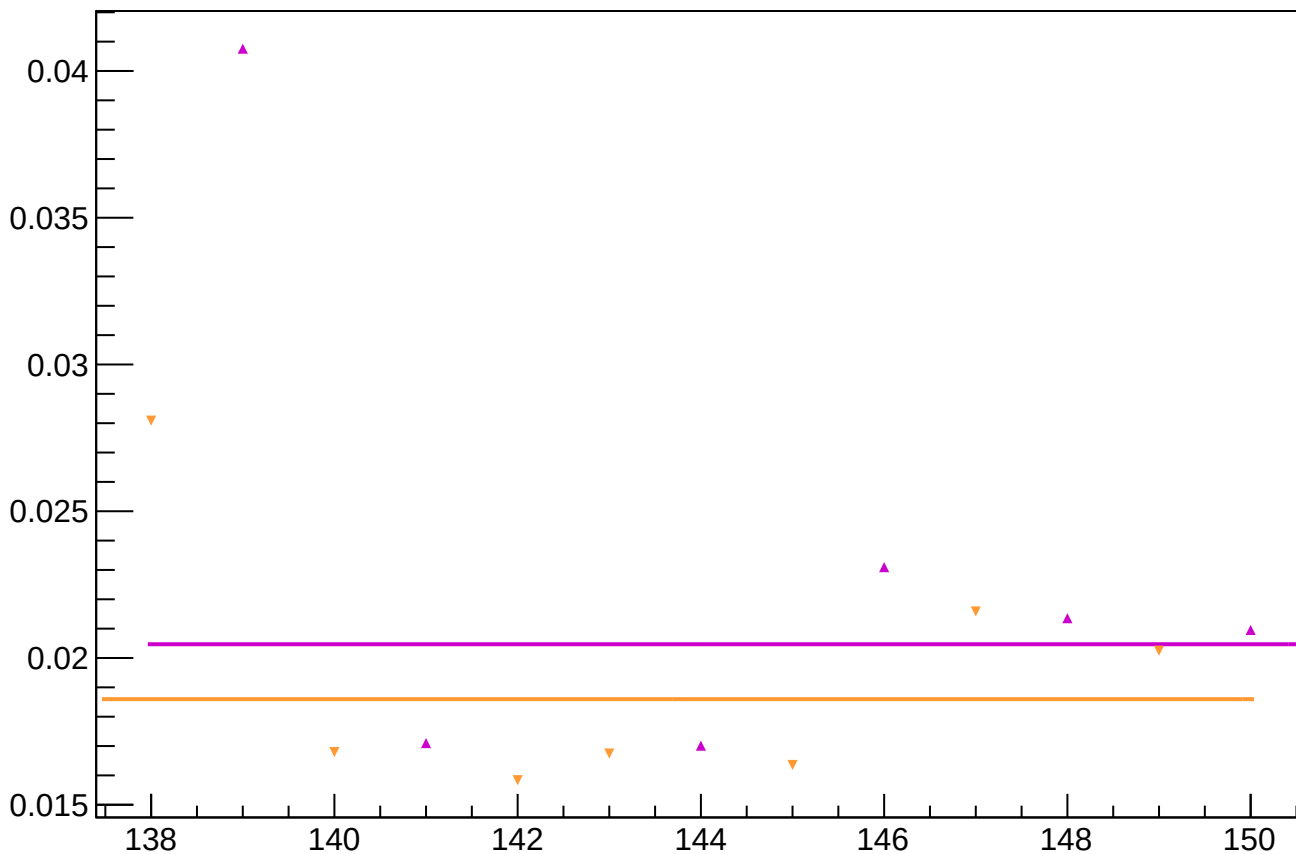
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.499+/-0.000  $\chi^2/\text{NDF}$ : 45033698.0/5

Out: -0.520+/-0.000  $\chi^2/\text{NDF}$ : 50820627.5/6

All: -0.510+/-0.000  $\chi^2/\text{NDF}$ : 97942882.6/12

# yield\_bpm4aX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ :229469.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.020+/-0.000  $\chi^2/\text{NDF}$ :473437.2/5

Left: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 736473.3/12

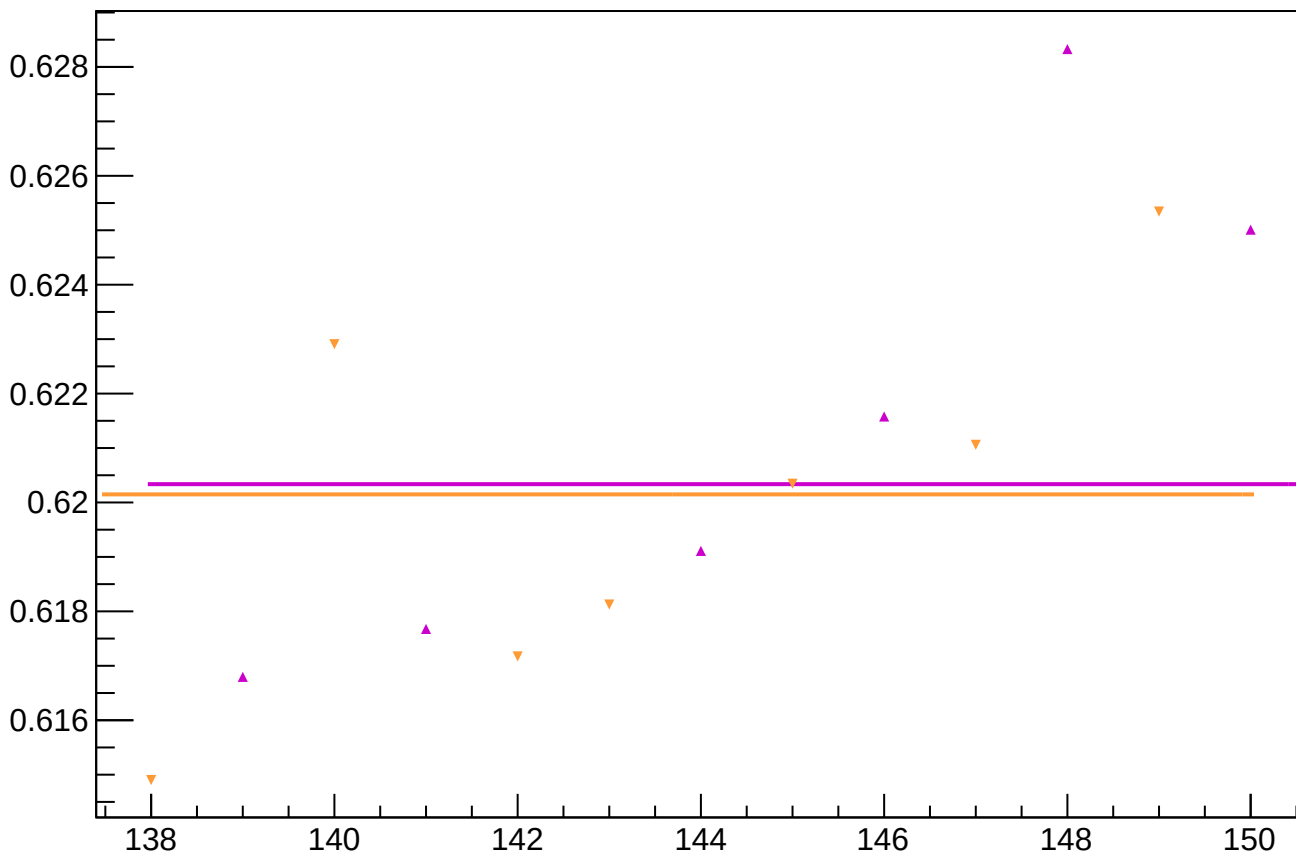
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.020+/-0.000  $\chi^2/\text{NDF}$ :473437.2/5

Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ :229469.3/6

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 736473.3/12

# yield\_bpm4aY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.620+/-0.000  $\chi^2/\text{NDF}$ :356617.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.620+/-0.000  $\chi^2/\text{NDF}$ :338447.4/5

Left: 0.620+/-0.000  $\chi^2/\text{NDF}$ : 695576.3/12

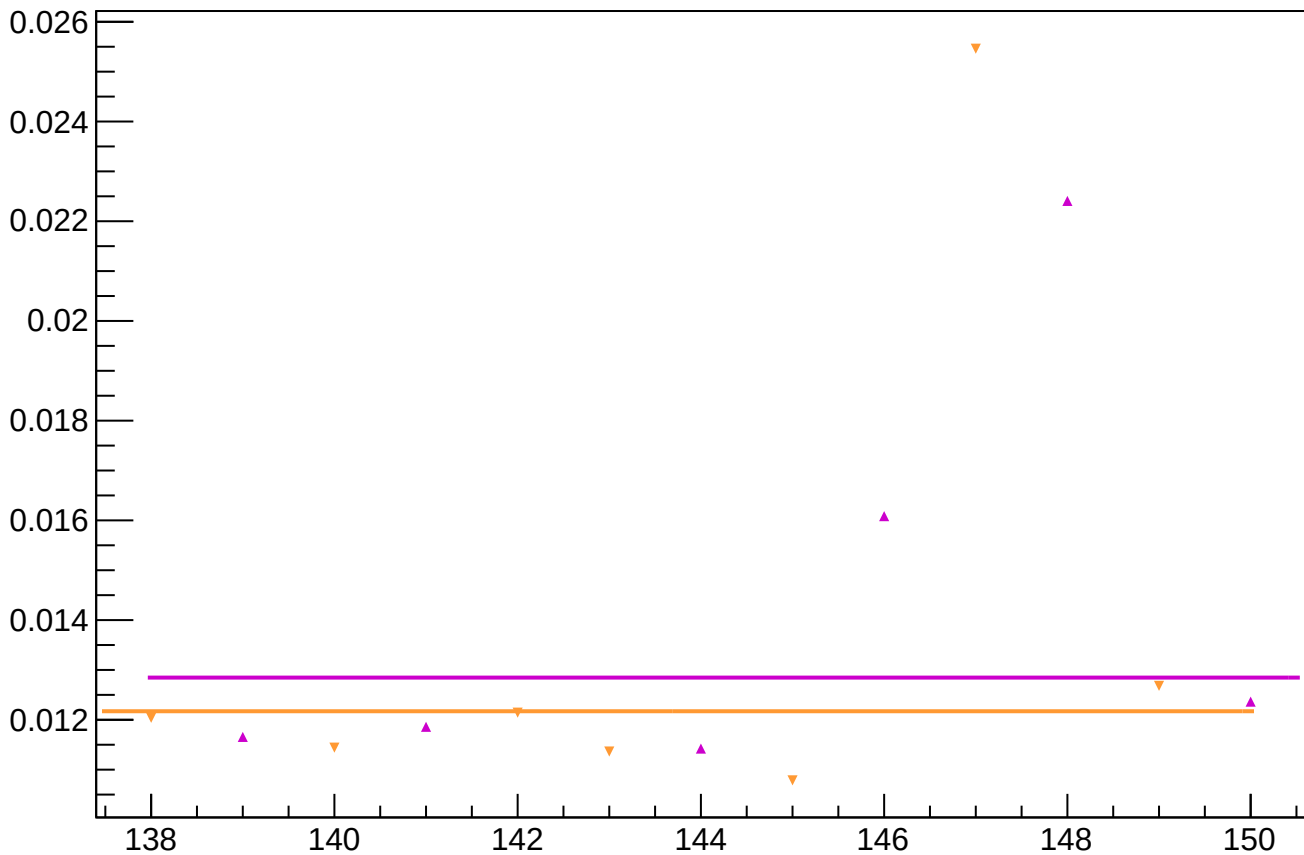
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.620+/-0.000  $\chi^2/\text{NDF}$ :338447.4/5

Out: 0.620+/-0.000  $\chi^2/\text{NDF}$ :356617.5/6

All: 0.620+/-0.000  $\chi^2/\text{NDF}$ : 695576.3/12

# yield\_bpm4aY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ :444520.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.013+/-0.000  $\chi^2/\text{NDF}$ :389828.9/5

Left: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 847537.4/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

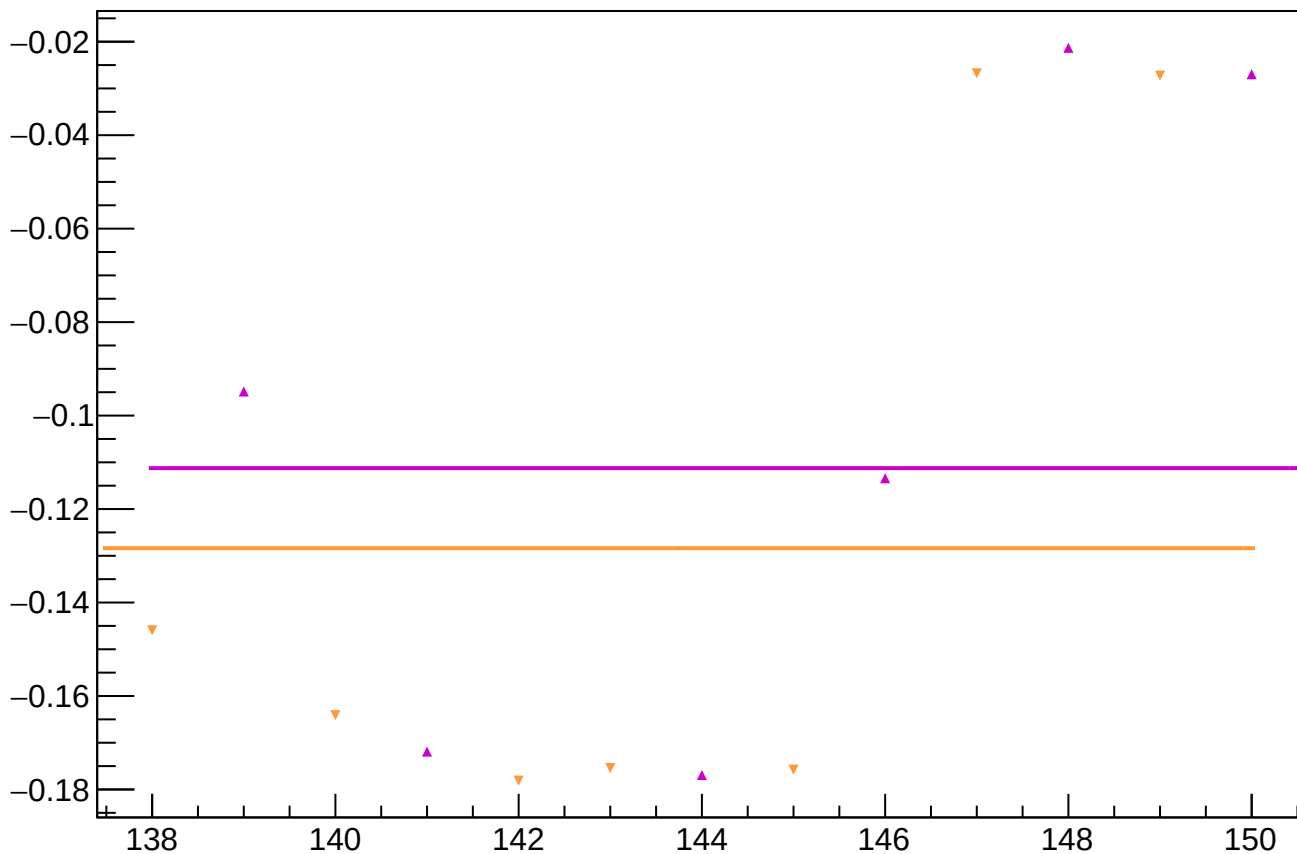
In: 0.013+/-0.000  $\chi^2/\text{NDF}$ :389828.9/5

Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ :444520.3/6

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 847537.4/12



# yield\_bpm4eX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.128+/-0.000  $\chi^2/\text{NDF}$ : 49372563.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.111+/-0.000  $\chi^2/\text{NDF}$ : 44923420.3/5

Left: -0.120+/-0.000  $\chi^2/\text{NDF}$ : 95859698.2/12

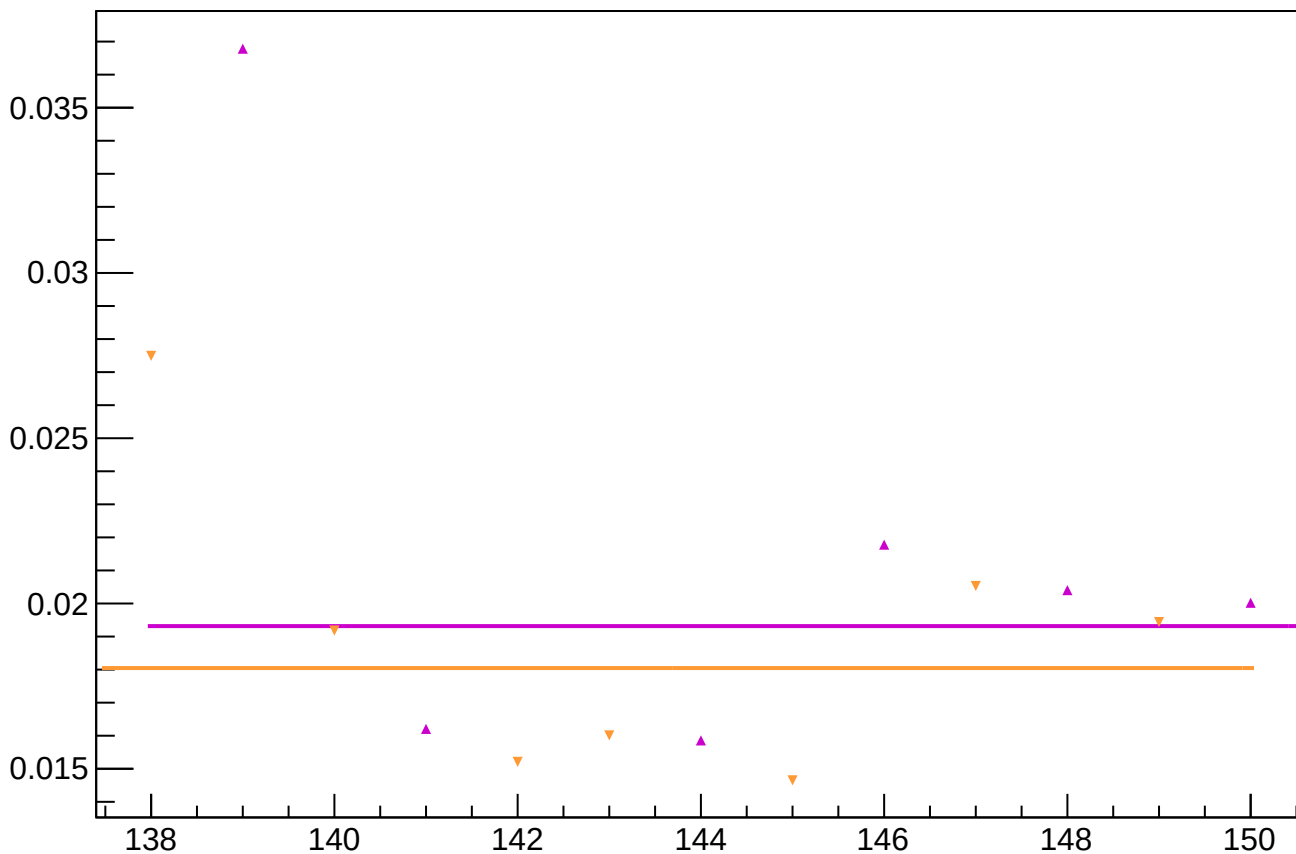
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.111+/-0.000  $\chi^2/\text{NDF}$ : 44923420.3/5

Out: -0.128+/-0.000  $\chi^2/\text{NDF}$ : 49372563.7/6

All: -0.120+/-0.000  $\chi^2/\text{NDF}$ : 95859698.2/12

# yield\_bpm4eX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :268693.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.019+/-0.000  $\chi^2/\text{NDF}$ :450304.2/5

Left: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 736163.7/12

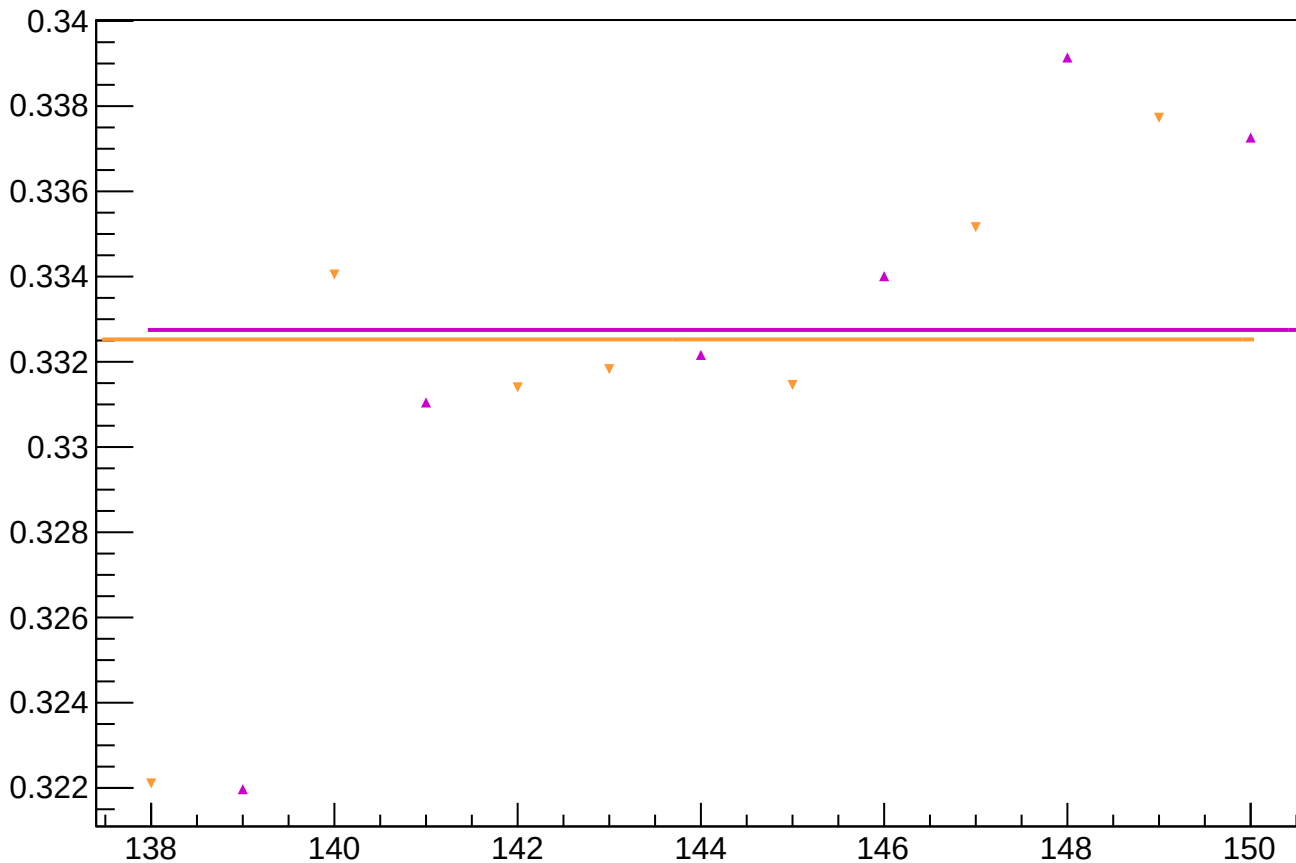
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.019+/-0.000  $\chi^2/\text{NDF}$ :450304.2/5

Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :268693.3/6

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 736163.7/12

# yield\_bpm4eY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.333+/-0.000  $\chi^2/\text{NDF}$ : 678133.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.333+/-0.000  $\chi^2/\text{NDF}$ : 852146.7/5

Left: 0.333+/-0.000  $\chi^2/\text{NDF}$ : 1531160.0/12

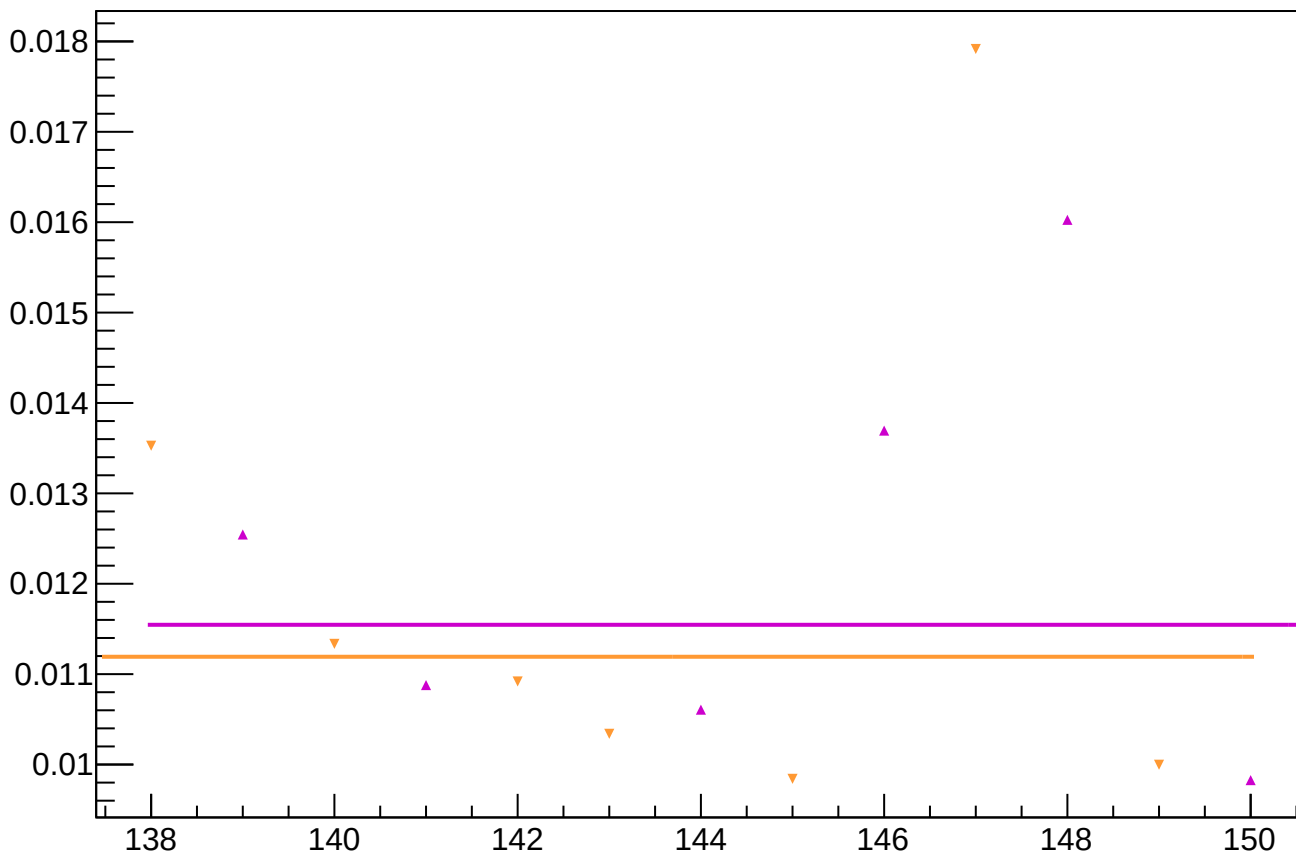
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.333+/-0.000  $\chi^2/\text{NDF}$ : 852146.7/5

Out: 0.333+/-0.000  $\chi^2/\text{NDF}$ : 678133.1/6

All: 0.333+/-0.000  $\chi^2/\text{NDF}$ : 1531160.0/12

# yield\_bpm4eY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 312625.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 236783.9/5

Left: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 553845.2/12

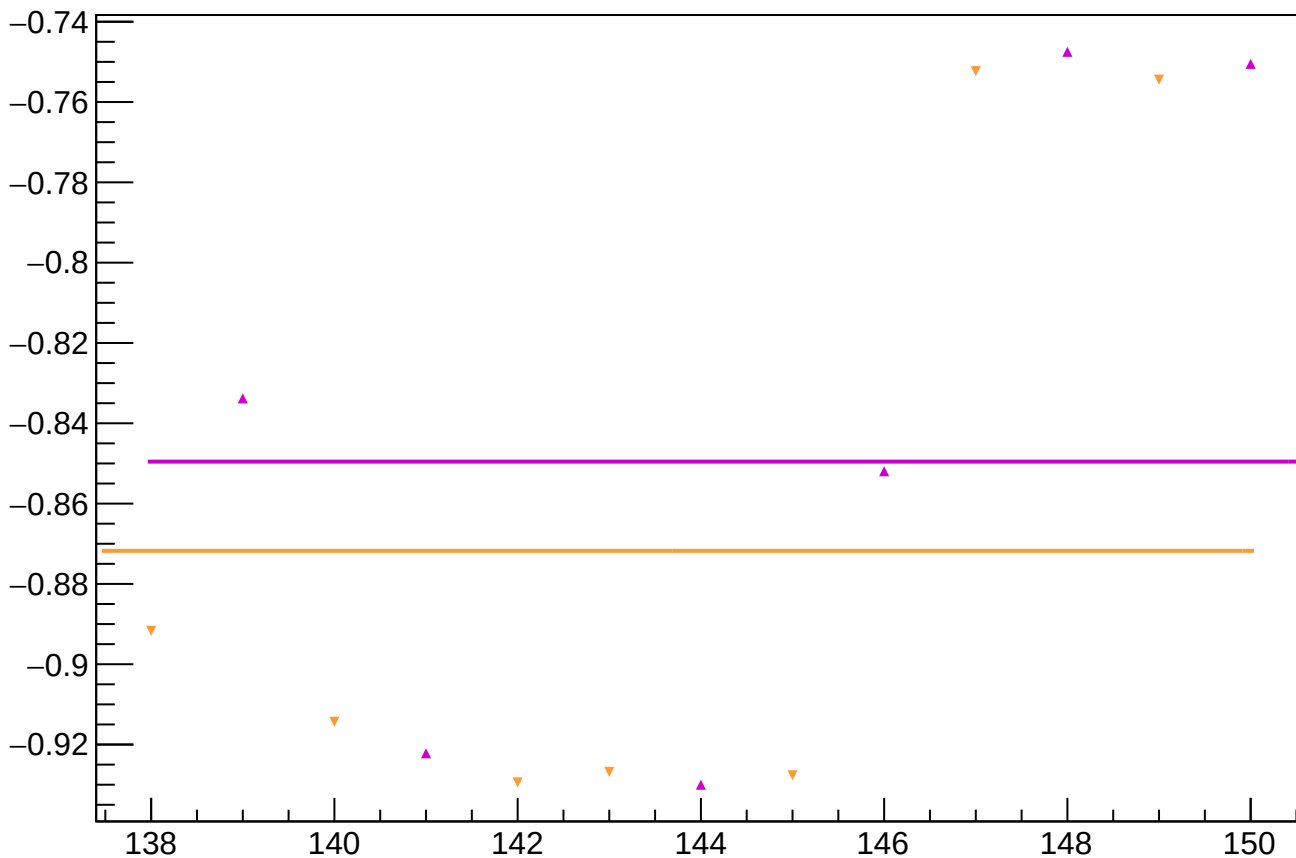
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 236783.9/5

Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 312625.1/6

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 553845.2/12

# yield\_bpm4acX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.872+/-0.000  $\chi^2/\text{NDF}$ : 64383089.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.850+/-0.000  $\chi^2/\text{NDF}$ : 58472547.7/5

Left: -0.862+/-0.000  $\chi^2/\text{NDF}$ : 125338519.9/12

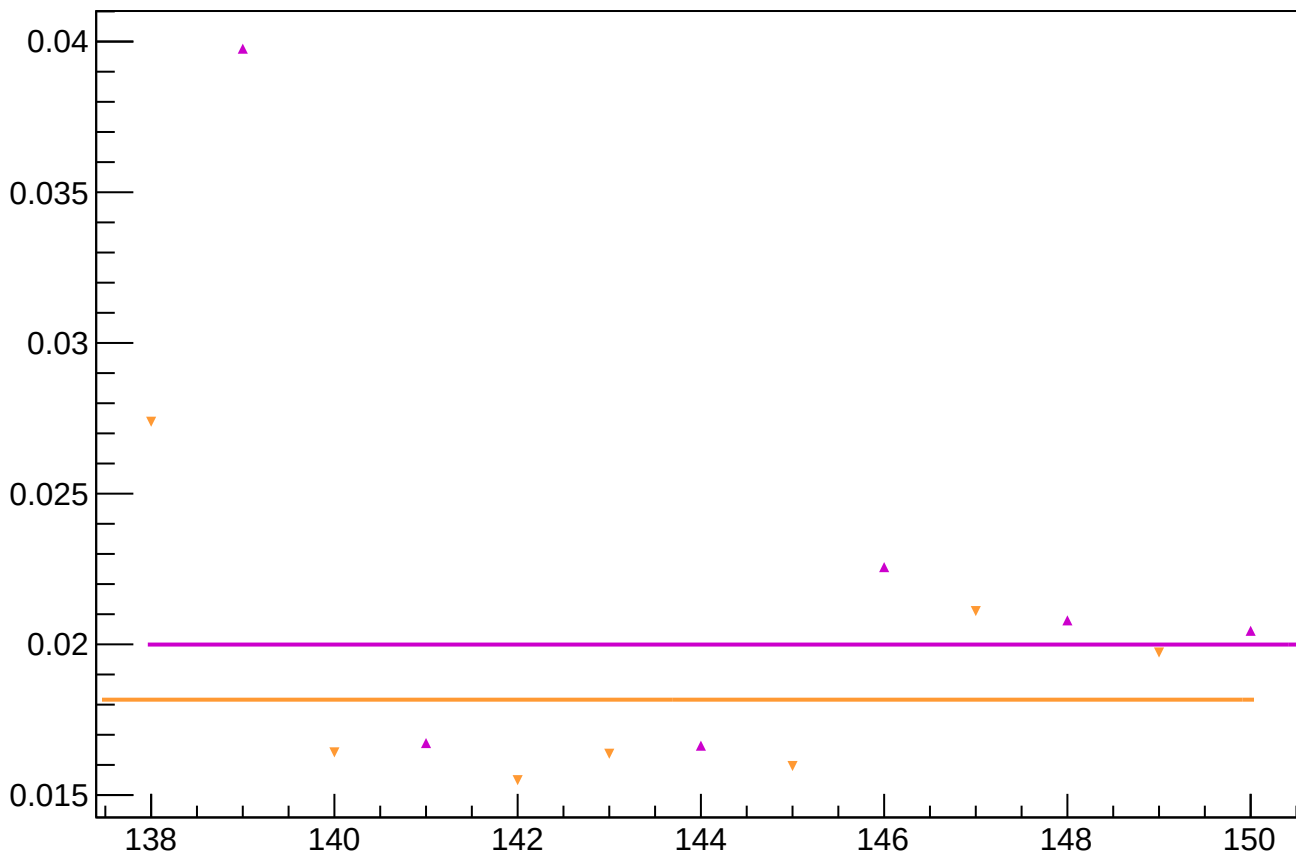
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.850+/-0.000  $\chi^2/\text{NDF}$ : 58472547.7/5

Out: -0.872+/-0.000  $\chi^2/\text{NDF}$ : 64383089.3/6

All: -0.862+/-0.000  $\chi^2/\text{NDF}$ : 125338519.9/12

# yield\_bpm4acX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :227902.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.020+/-0.000  $\chi^2/\text{NDF}$ :470871.9/5

Left: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 732414.6/12

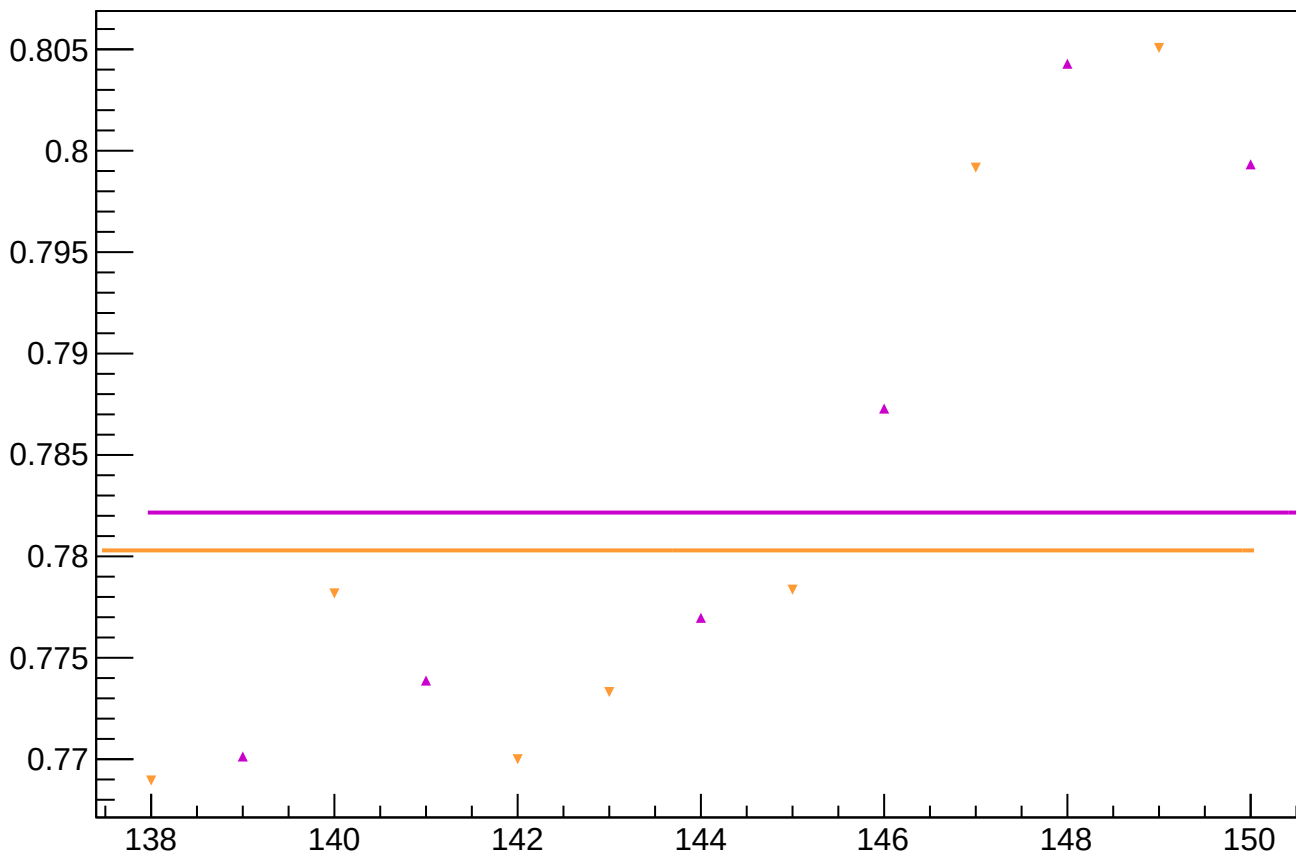
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.020+/-0.000  $\chi^2/\text{NDF}$ :470871.9/5

Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :227902.5/6

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 732414.6/12

# yield\_bpm4acY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.780+/-0.000  $\chi^2/\text{NDF}$ : 4623947.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.782+/-0.000  $\chi^2/\text{NDF}$ : 3754895.3/5

Left: 0.781+/-0.000  $\chi^2/\text{NDF}$ : 8428945.6/12

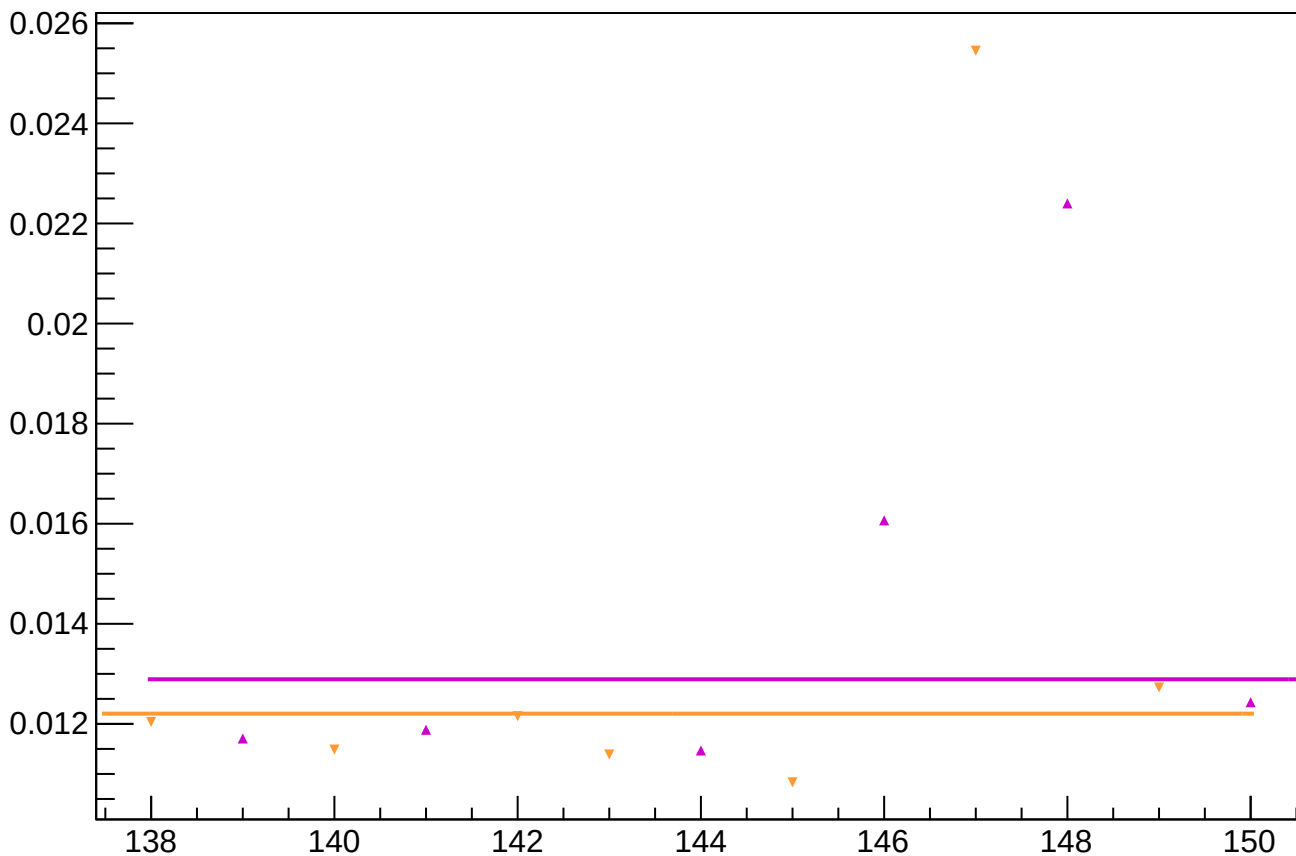
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.782+/-0.000  $\chi^2/\text{NDF}$ : 3754895.3/5

Out: 0.780+/-0.000  $\chi^2/\text{NDF}$ : 4623947.6/6

All: 0.781+/-0.000  $\chi^2/\text{NDF}$ : 8428945.6/12

# yield\_bpm4acY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 441253.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 384557.7/5

Left: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 839377.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

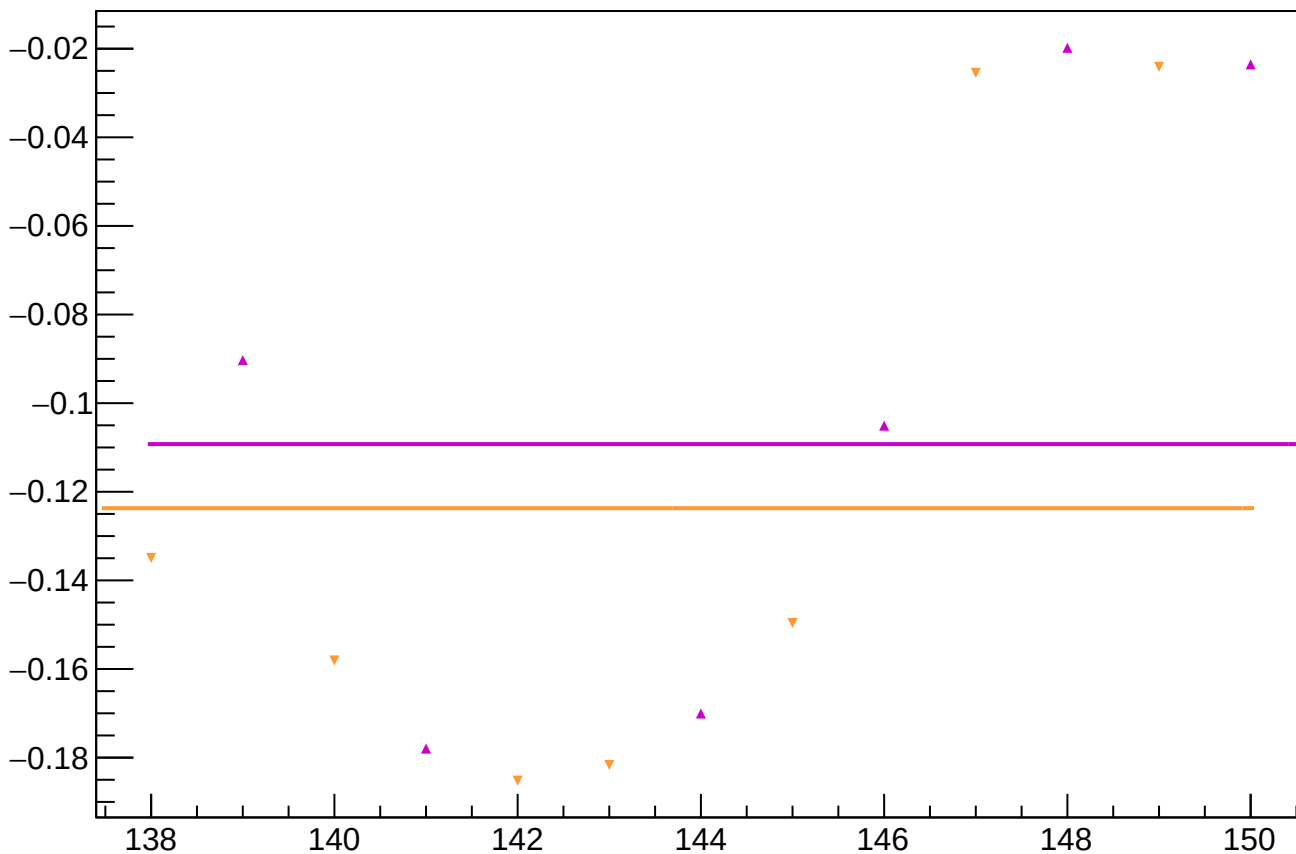
In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 384557.7/5

Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 441253.8/6

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 839377.9/12



# yield\_bpm4ecX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.124+/-0.000  $\chi^2/\text{NDF}$ : 46806846.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.109+/-0.000  $\chi^2/\text{NDF}$ : 45242426.2/5

Left: -0.117+/-0.000  $\chi^2/\text{NDF}$ : 93157674.5/12

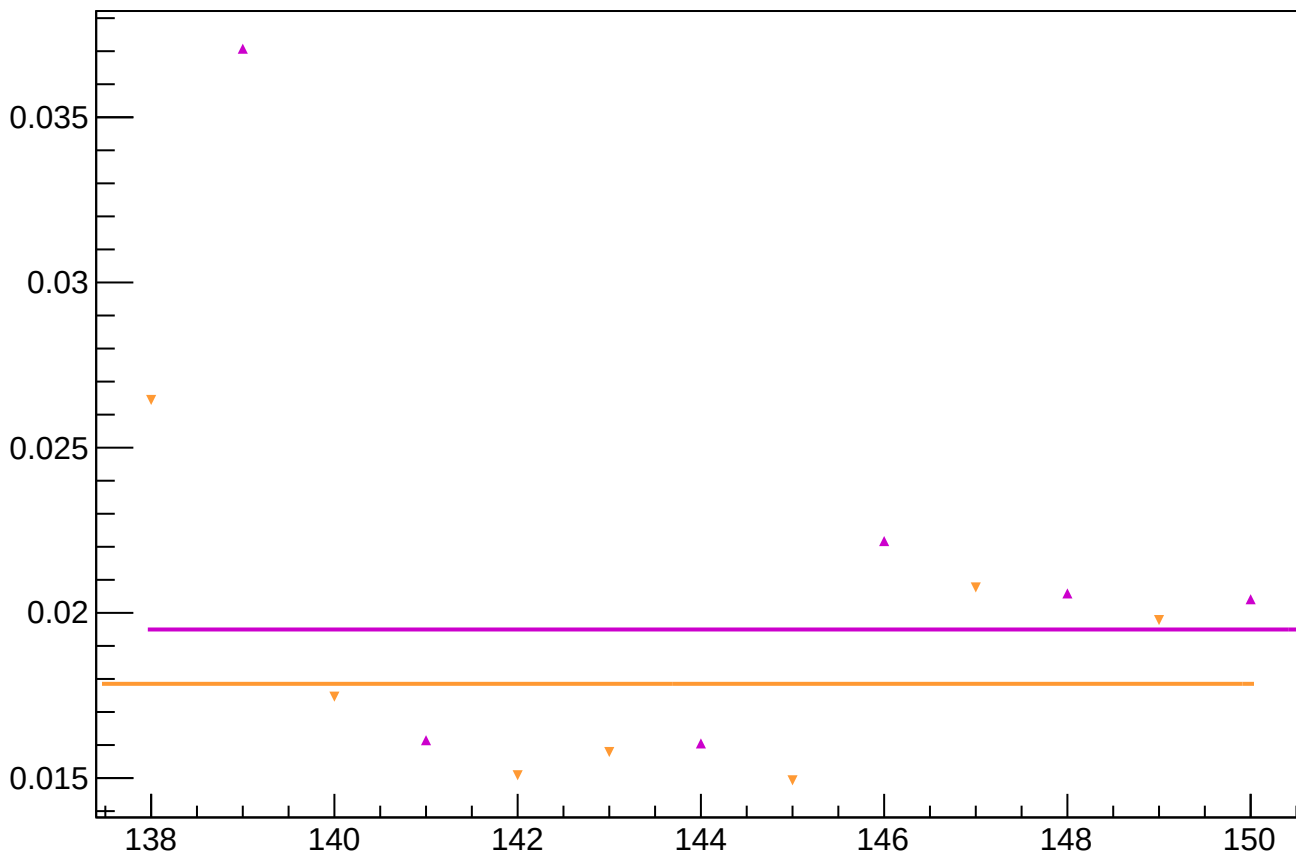
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.109+/-0.000  $\chi^2/\text{NDF}$ : 45242426.2/5

Out: -0.124+/-0.000  $\chi^2/\text{NDF}$ : 46806846.2/6

All: -0.117+/-0.000  $\chi^2/\text{NDF}$ : 93157674.5/12

# yield\_bpm4ecX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :243215.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.019+/-0.000  $\chi^2/\text{NDF}$ :457910.1/5

Left: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 729792.7/12

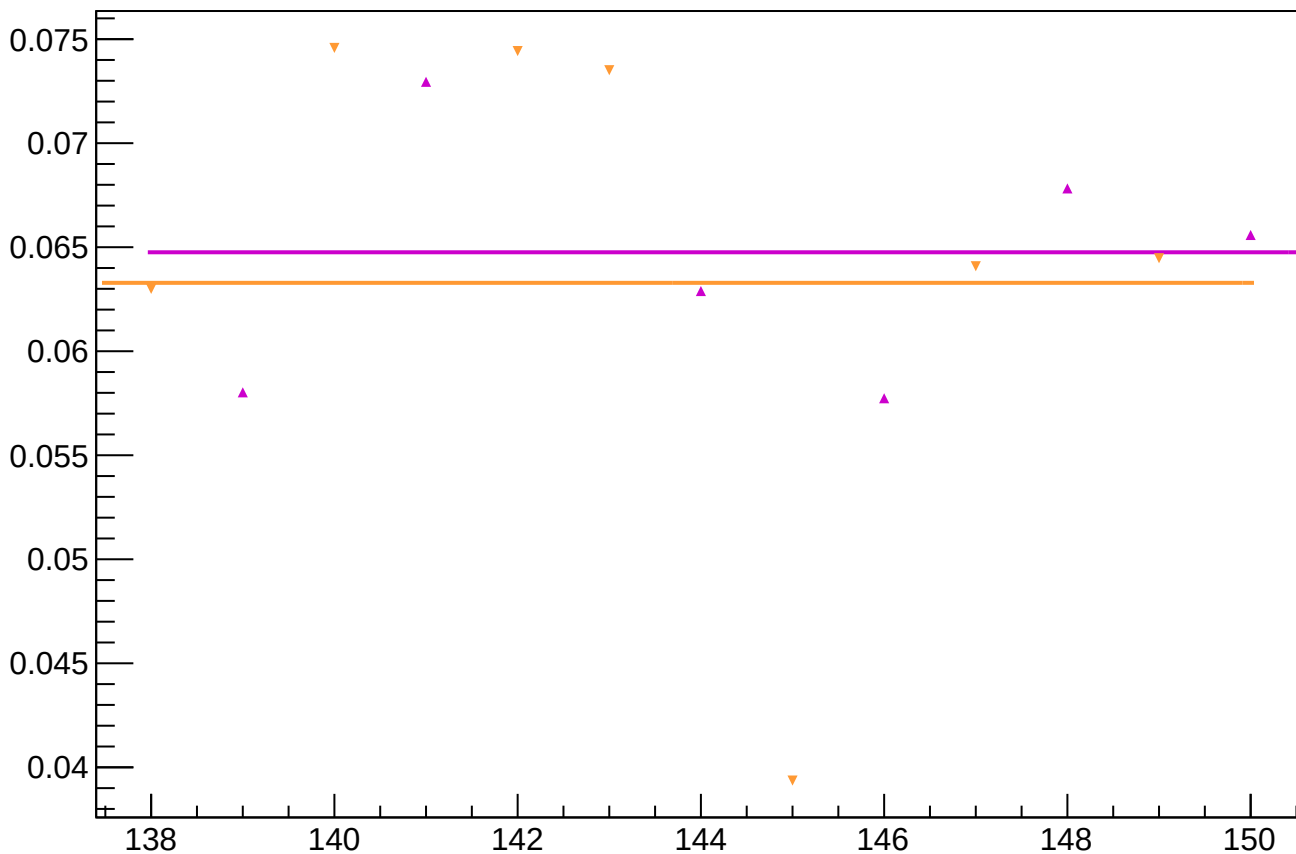
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.019+/-0.000  $\chi^2/\text{NDF}$ :457910.1/5

Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :243215.7/6

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 729792.7/12

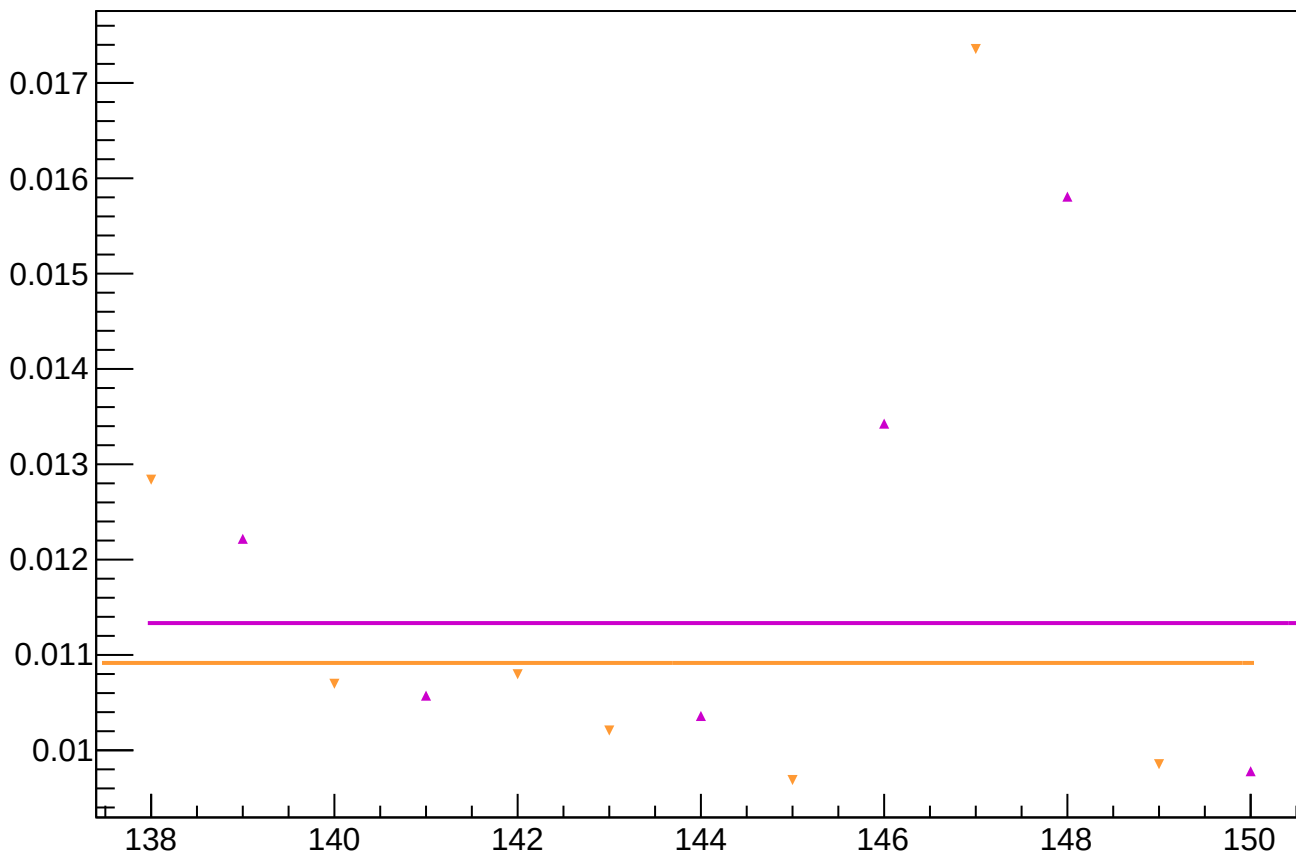
# yield\_bpm4ecY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.063+/-0.000     $\chi^2/\text{NDF}$ :6313994.3/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.065+/-0.000     $\chi^2/\text{NDF}$ :960847.2/5

Left: 0.064+/-0.000     $\chi^2/\text{NDF}$ : 7314831.0/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.065+/-0.000     $\chi^2/\text{NDF}$ :960847.2/5  
 Out: 0.063+/-0.000     $\chi^2/\text{NDF}$ :6313994.3/6  
 All: 0.064+/-0.000     $\chi^2/\text{NDF}$ : 7314831.0/12

# yield\_bpm4ecY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ :286568.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.011+/-0.000  $\chi^2/\text{NDF}$ :232879.7/5

Left: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 525929.4/12

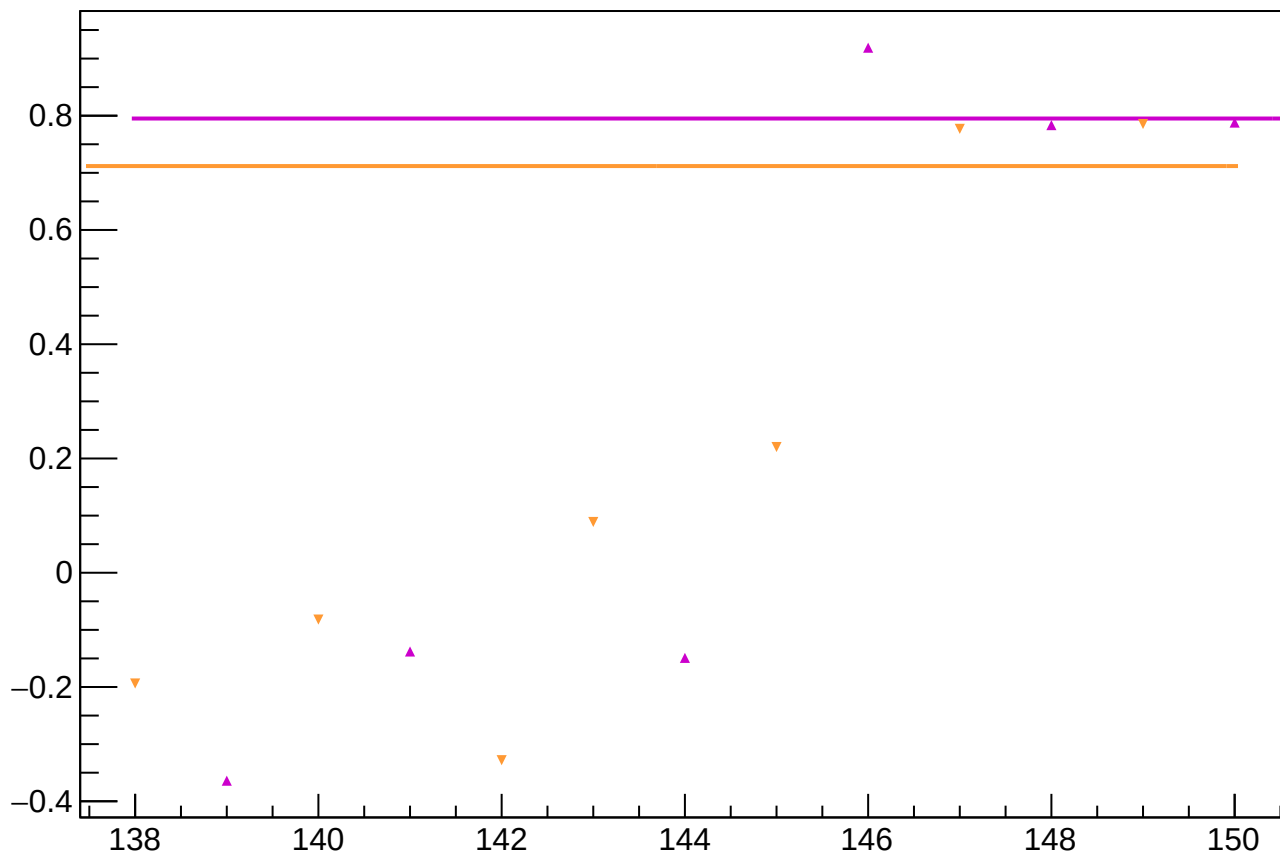
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.011+/-0.000  $\chi^2/\text{NDF}$ :232879.7/5

Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ :286568.8/6

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 525929.4/12

# yield\_bpm1X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.712+/-0.000  $\chi^2/\text{NDF}$ : 302622215.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.795+/-0.000  $\chi^2/\text{NDF}$ : 205861633.0/5

Left: 0.759+/-0.000  $\chi^2/\text{NDF}$ : 529932178.6/12

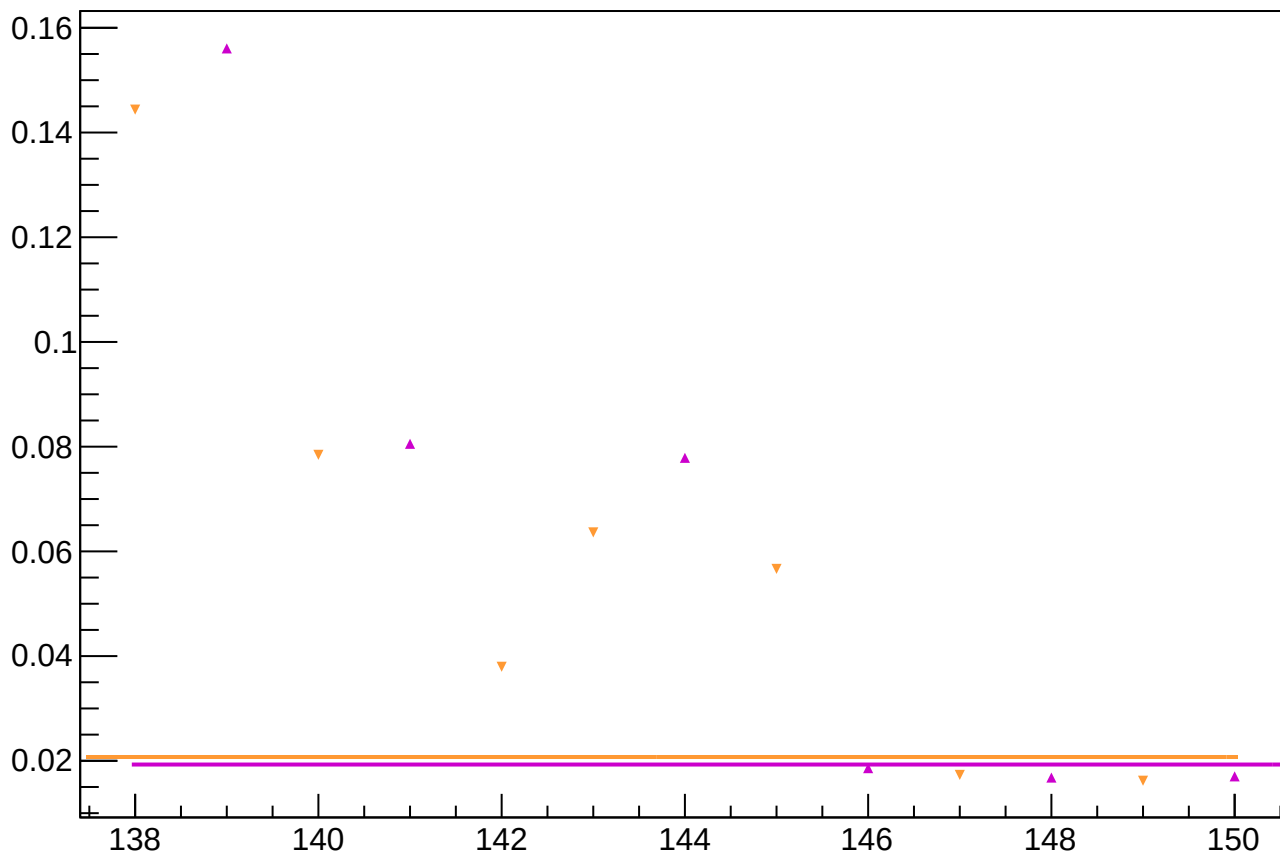
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.795+/-0.000  $\chi^2/\text{NDF}$ : 205861633.0/5

Out: 0.712+/-0.000  $\chi^2/\text{NDF}$ : 302622215.9/6

All: 0.759+/-0.000  $\chi^2/\text{NDF}$ : 529932178.6/12

# yield\_bpm1X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ :2471379.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.019+/-0.000  $\chi^2/\text{NDF}$ :2189063.4/5

Left: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 4673253.3/12

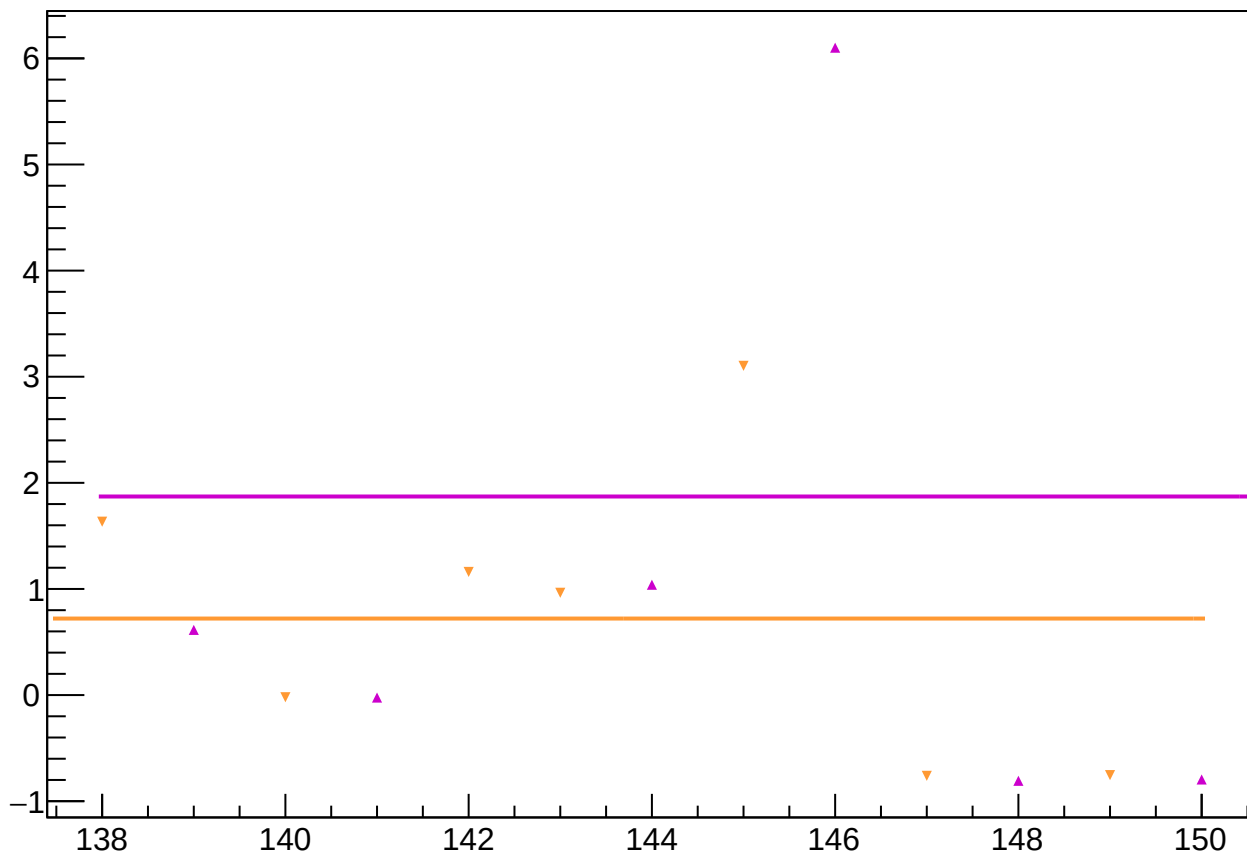
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.019+/-0.000  $\chi^2/\text{NDF}$ :2189063.4/5

Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ :2471379.2/6

All: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 4673253.3/12

# yield\_bpm1Y\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.721+/-0.000  $\chi^2/\text{NDF}$ :25386831042.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1.871+/-0.000  $\chi^2/\text{NDF}$ :100190304209.2/5

Left: 1.348+/-0.000  $\chi^2/\text{NDF}$ : 131088527036.5/12

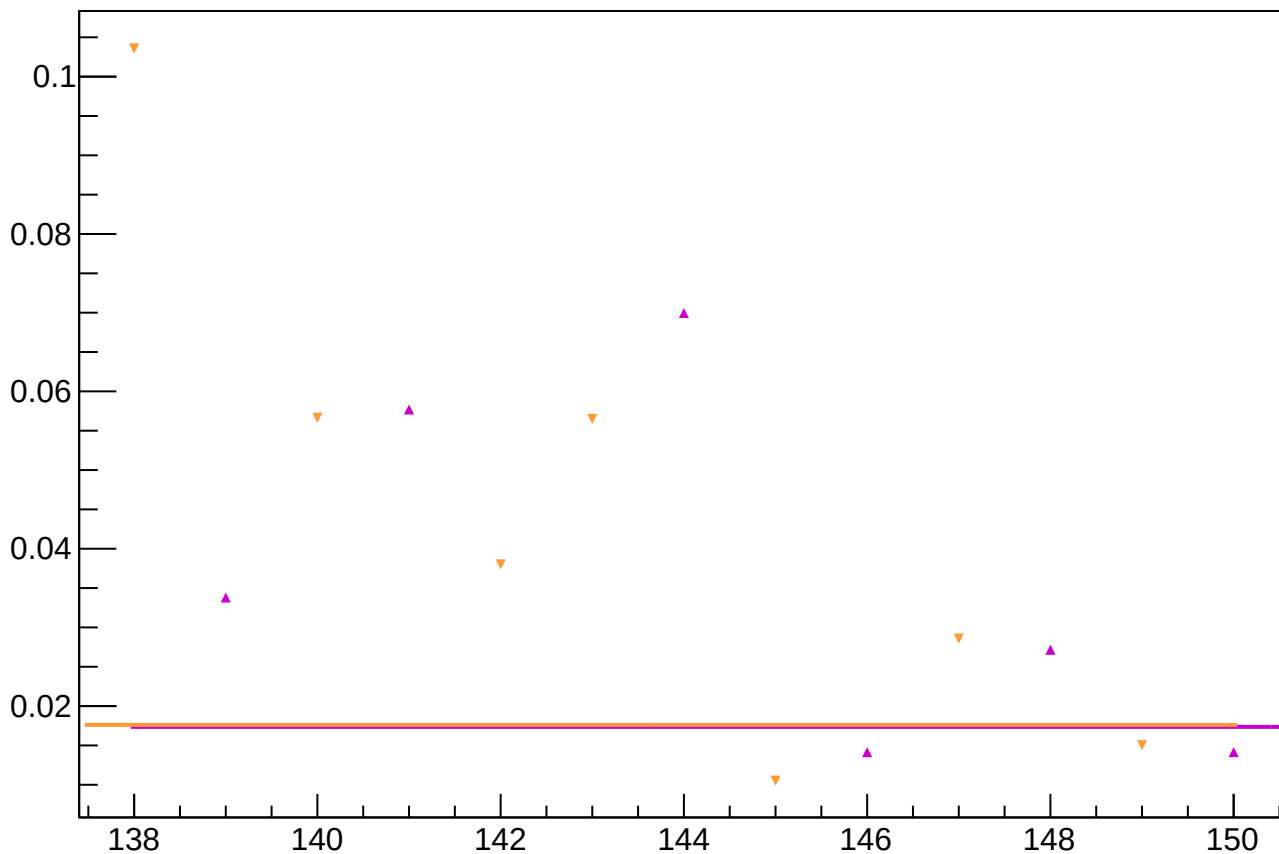
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1.871+/-0.000  $\chi^2/\text{NDF}$ :100190304209.2/5

Out: 0.721+/-0.000  $\chi^2/\text{NDF}$ :25386831042.6/6

All: 1.348+/-0.000  $\chi^2/\text{NDF}$ : 131088527036.5

# yield\_bpm1Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :2330990.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.017+/-0.000  $\chi^2/\text{NDF}$ :1535691.6/5

Left: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 3867224.5/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

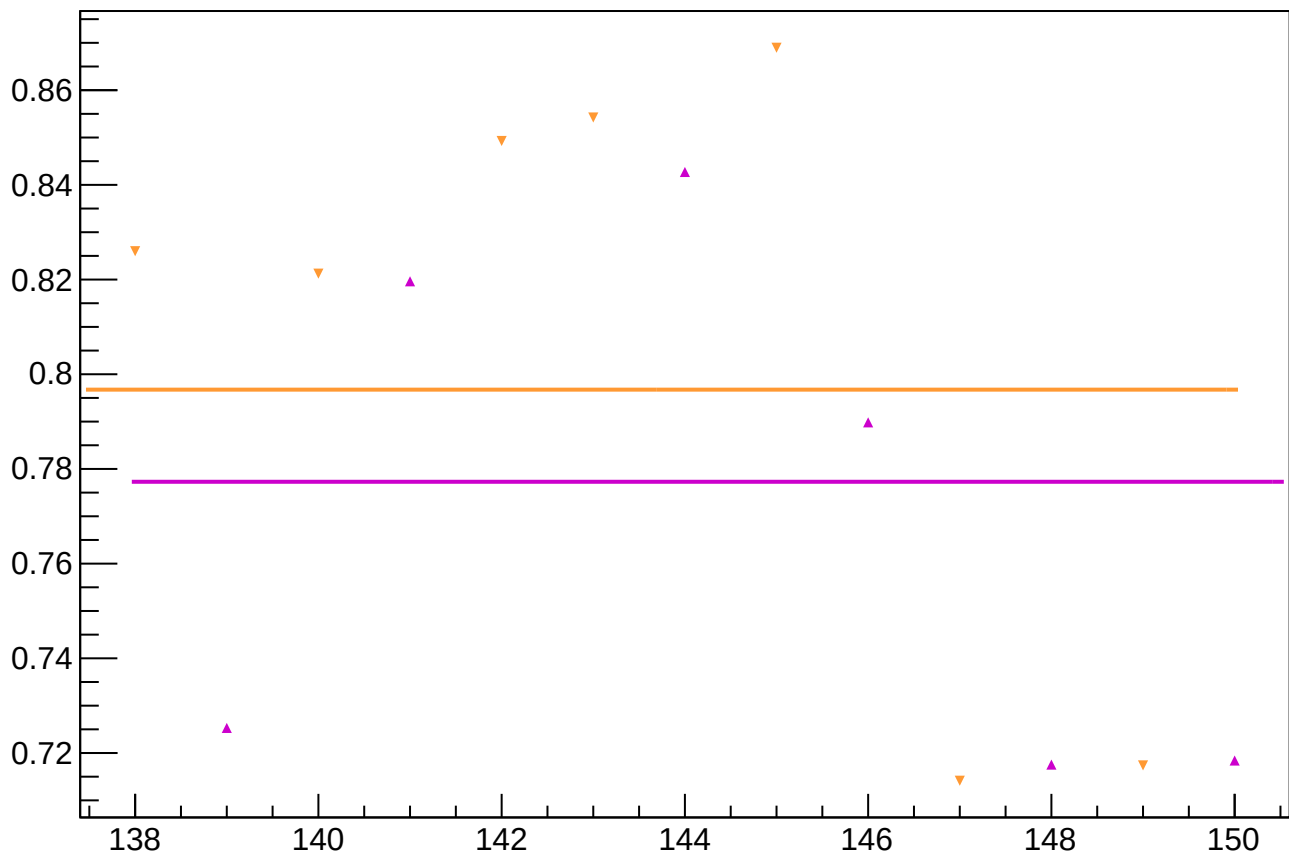
In: 0.017+/-0.000  $\chi^2/\text{NDF}$ :1535691.6/5

Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :2330990.5/6

All: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 3867224.5/12



# yield\_bpm11X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.797+/-0.000  $\chi^2/\text{NDF}$ :117234131.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.777+/-0.000  $\chi^2/\text{NDF}$ :71694174.0/5

Left: 0.787+/-0.000  $\chi^2/\text{NDF}$ : 194138034.5/12

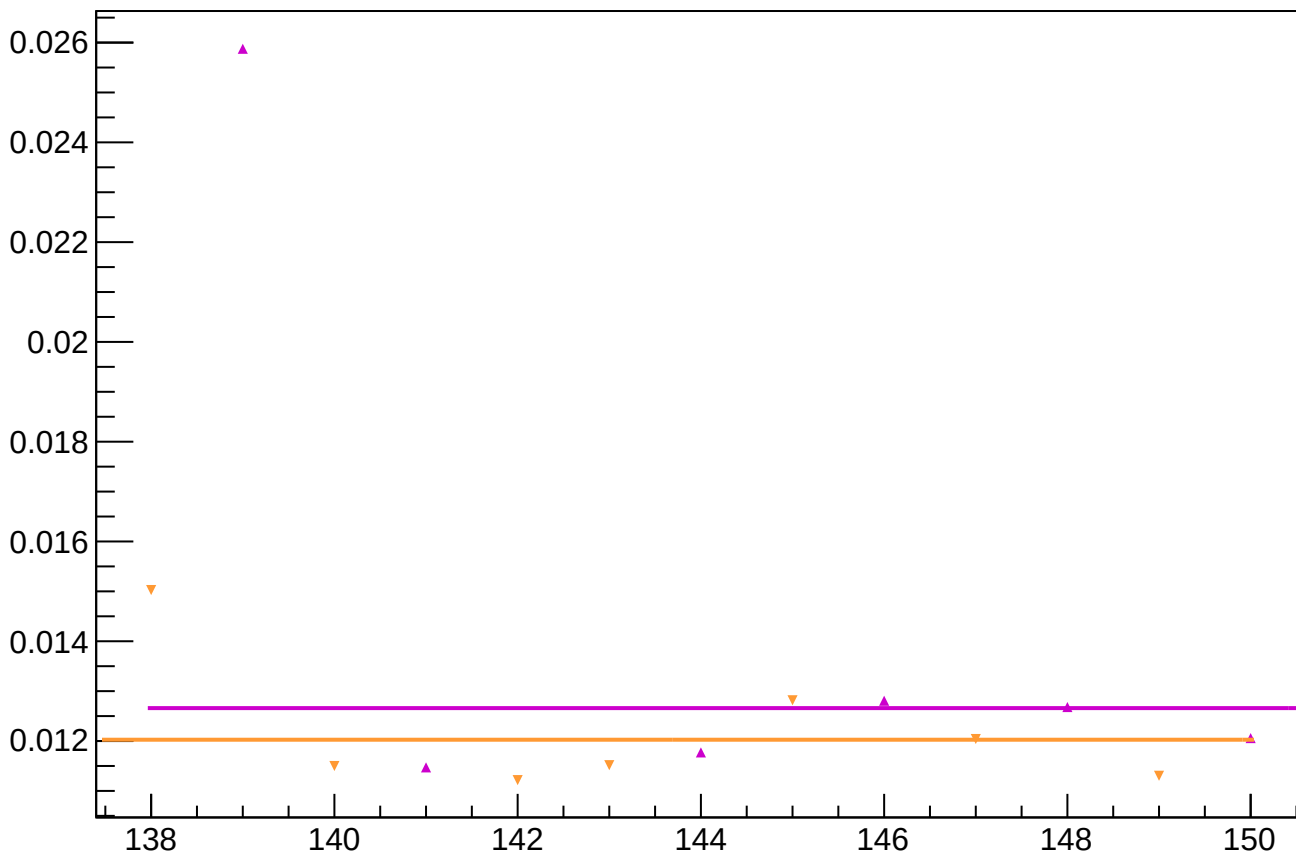
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.777+/-0.000  $\chi^2/\text{NDF}$ :71694174.0/5

Out: 0.797+/-0.000  $\chi^2/\text{NDF}$ :117234131.6/6

All: 0.787+/-0.000  $\chi^2/\text{NDF}$ : 194138034.5/12

# yield\_bpm11X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 66361.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 392979.1/5

Left: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 470389.6/12

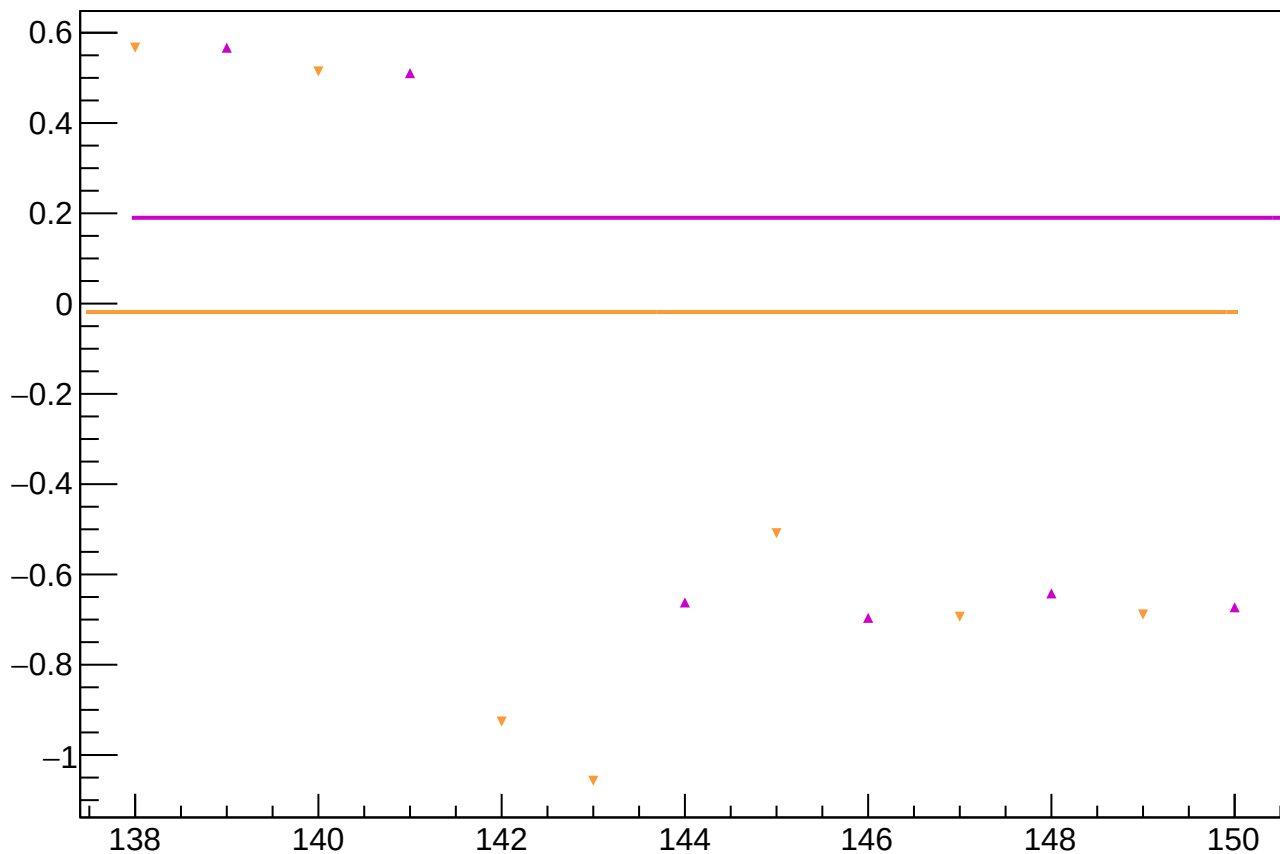
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 392979.1/5

Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 66361.7/6

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 470389.6/12

# yield\_bpm11Y\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.019+/-0.000  $\chi^2/\text{NDF}$ :16504402315.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.190+/-0.000  $\chi^2/\text{NDF}$ :12093226693.2/5

Left: 0.083+/-0.000  $\chi^2/\text{NDF}$ : 29450531215.3/12

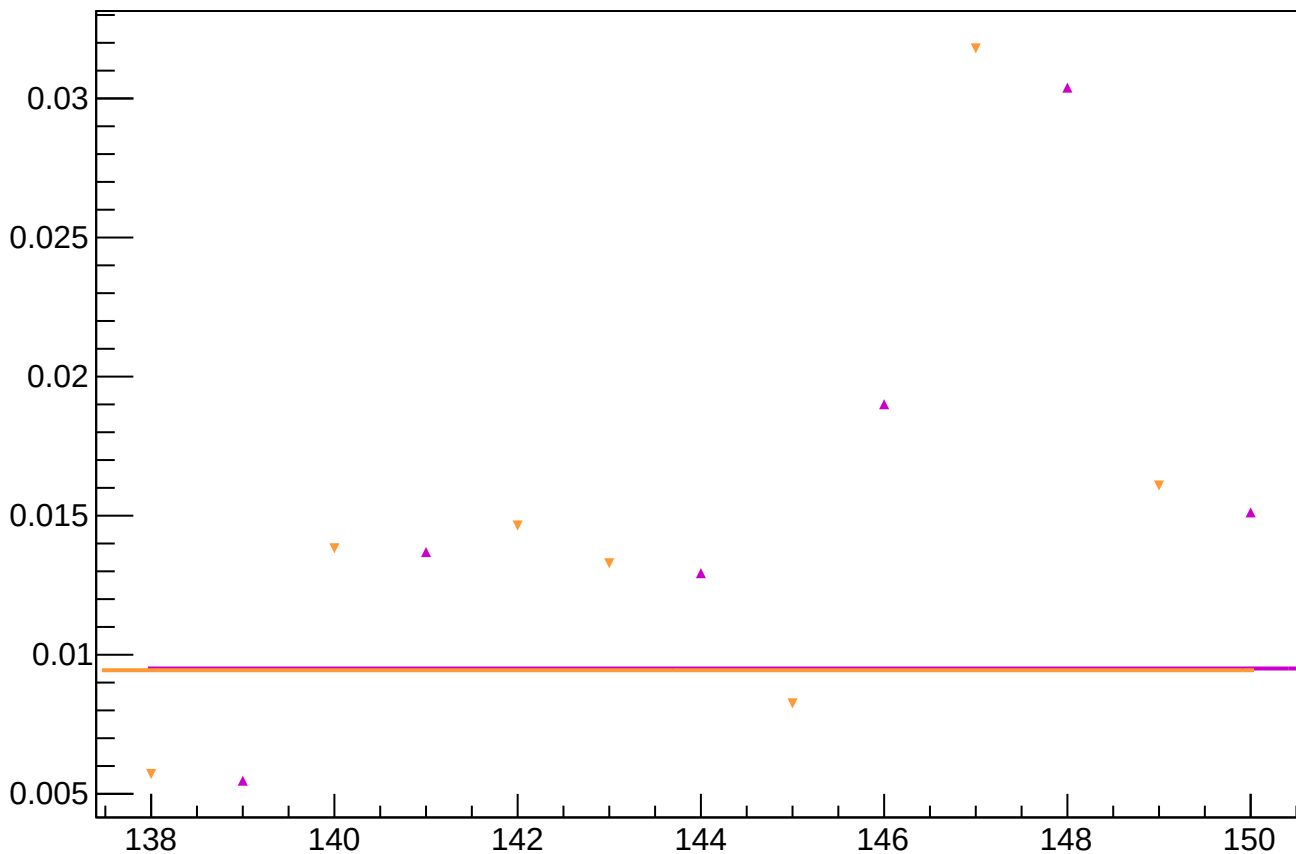
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.190+/-0.000  $\chi^2/\text{NDF}$ :12093226693.2/5

Out: -0.019+/-0.000  $\chi^2/\text{NDF}$ :16504402315.7/6

All: 0.083+/-0.000  $\chi^2/\text{NDF}$ : 29450531215.3/17

# yield\_bpm11Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ :1895576.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.010+/-0.000  $\chi^2/\text{NDF}$ :2300645.2/5

Left: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 4196374.6/12

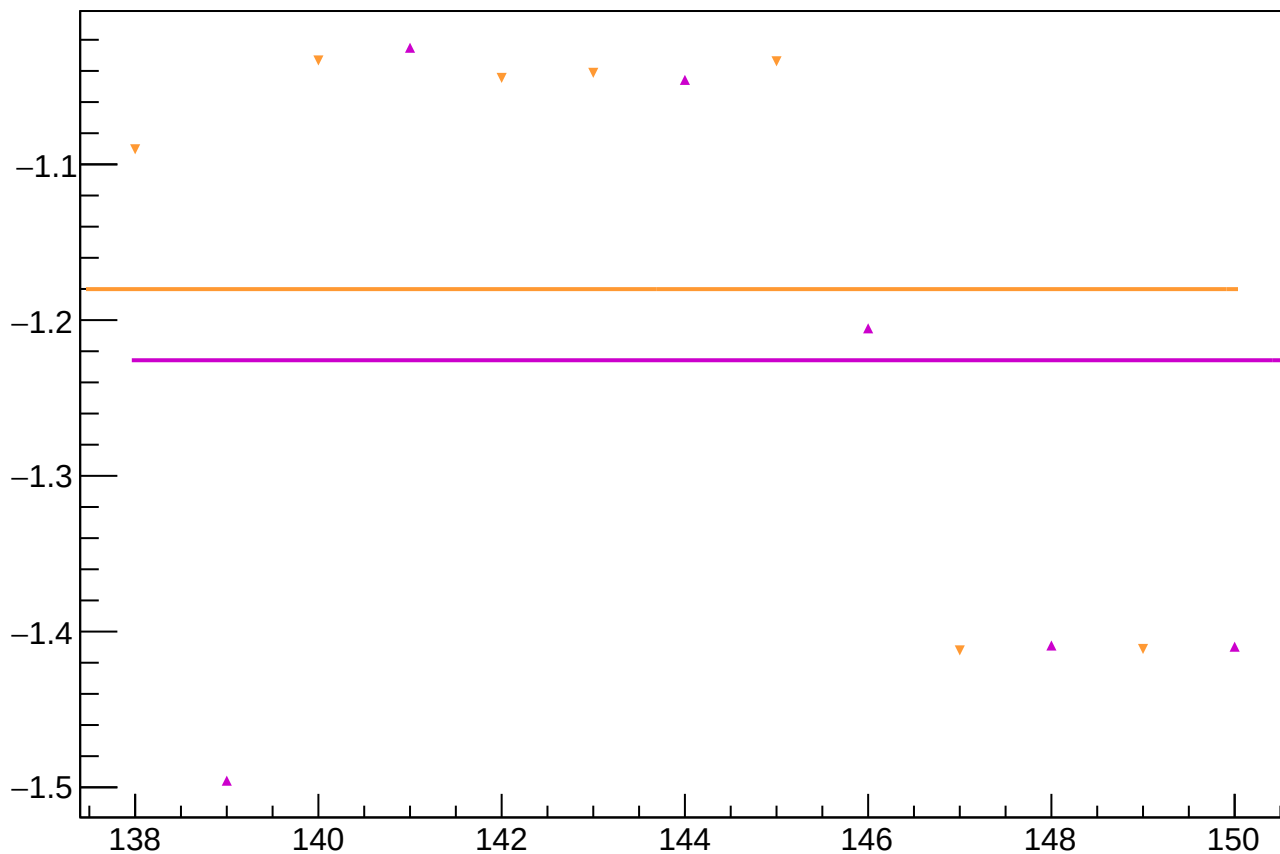
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.010+/-0.000  $\chi^2/\text{NDF}$ :2300645.2/5

Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ :1895576.1/6

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 4196374.6/12

# yield\_bpm12X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.180+/-0.000  $\chi^2/\text{NDF}$ :140062267.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1.226+/-0.000  $\chi^2/\text{NDF}$ :123944176.7/5

Left: -1.202+/-0.000  $\chi^2/\text{NDF}$ : 268420995.8/12

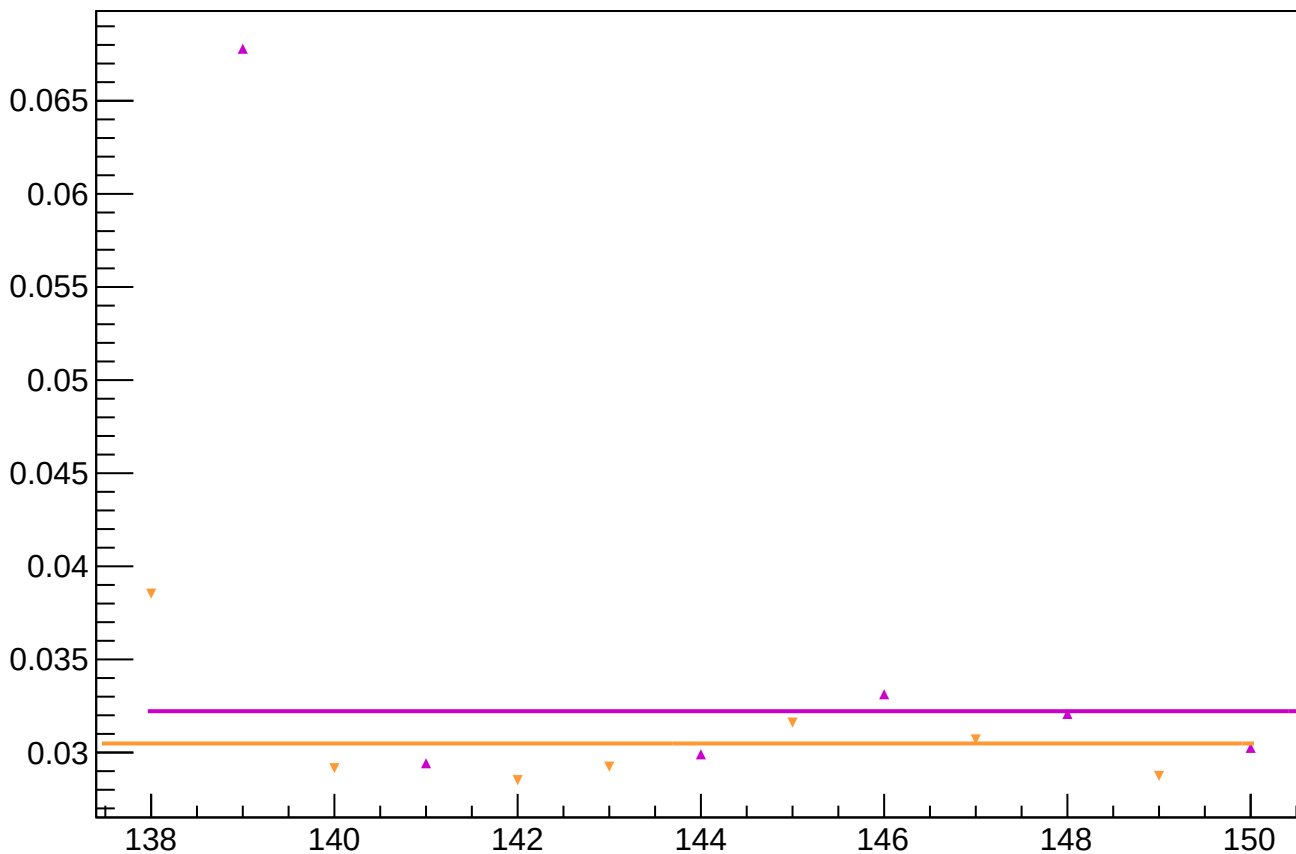
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.226+/-0.000  $\chi^2/\text{NDF}$ :123944176.7/5

Out: -1.180+/-0.000  $\chi^2/\text{NDF}$ :140062267.8/6

All: -1.202+/-0.000  $\chi^2/\text{NDF}$ : 268420995.8/12

# yield\_bpm12X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 66811.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 414677.8/5

Left: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 494221.9/12

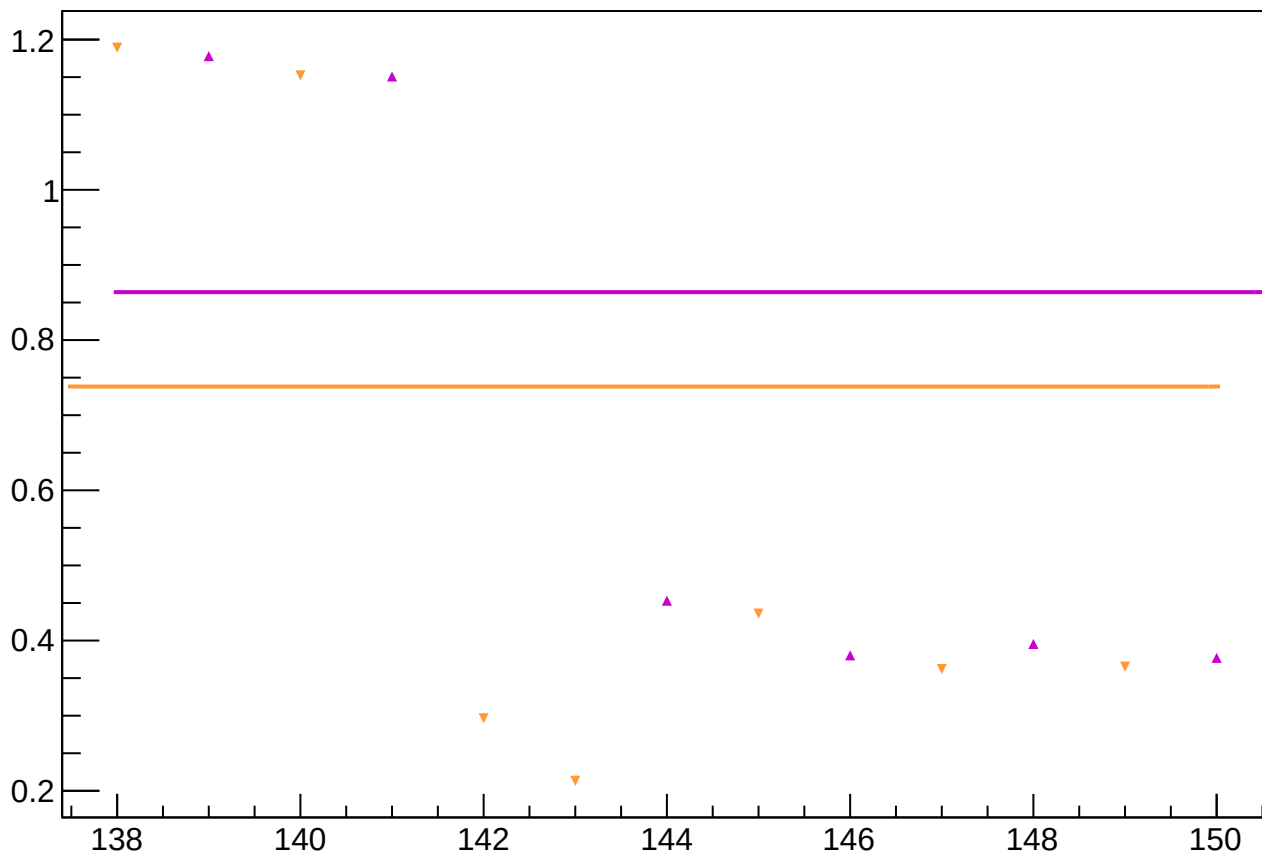
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 414677.8/5

Out: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 66811.9/6

All: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 494221.9/12

# yield\_bpm12Y\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.738+/-0.000  $\chi^2/\text{NDF}$ :11903714947.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.864+/-0.000  $\chi^2/\text{NDF}$ :8935569434.5/5

Left: 0.799+/-0.000  $\chi^2/\text{NDF}$ : 21360934133.7/12

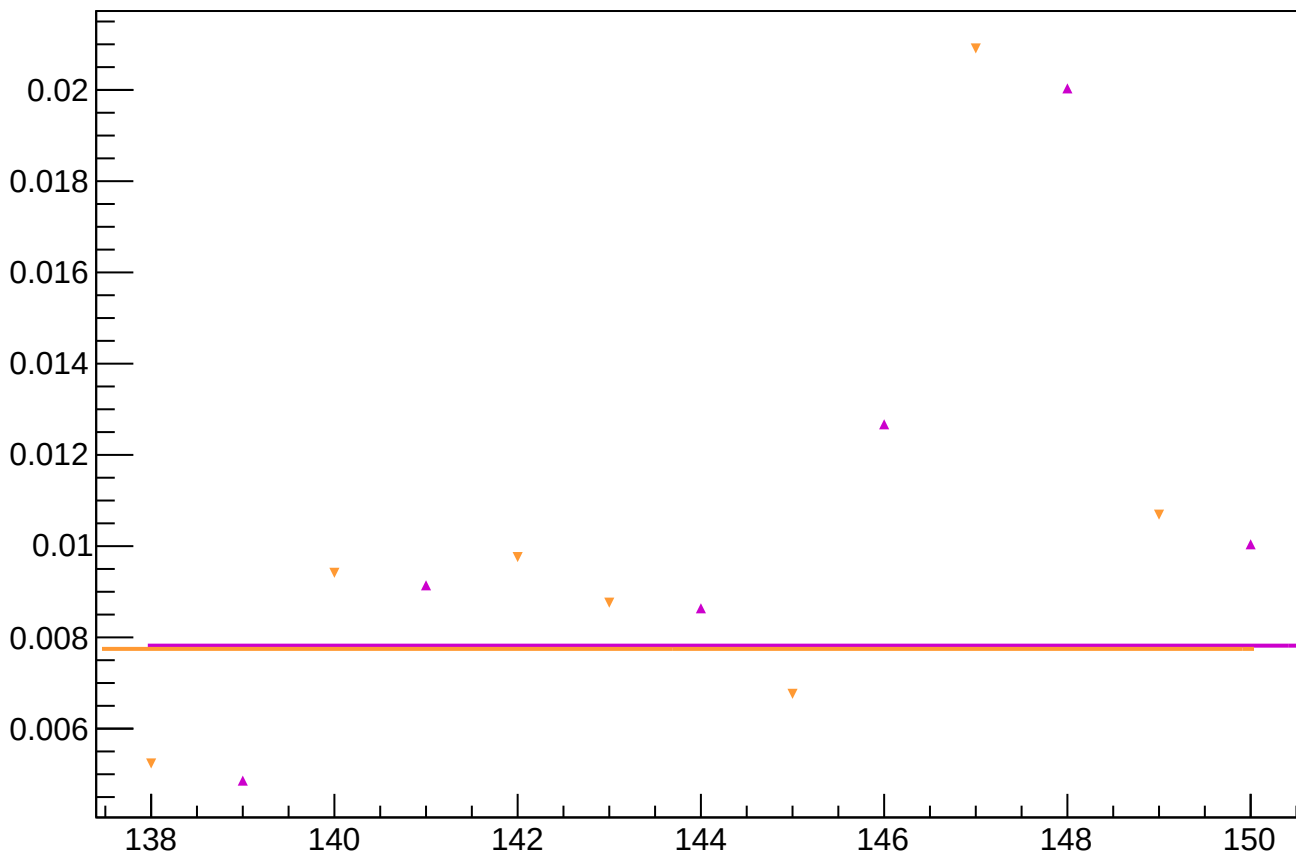
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.864+/-0.000  $\chi^2/\text{NDF}$ :8935569434.5/5

Out: 0.738+/-0.000  $\chi^2/\text{NDF}$ :11903714947.3/6

All: 0.799+/-0.000  $\chi^2/\text{NDF}$ : 21360934133.7/12

# yield\_bpm12Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ :1144587.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.008+/-0.000  $\chi^2/\text{NDF}$ :1407748.8/5

Left: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 2552668.8/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

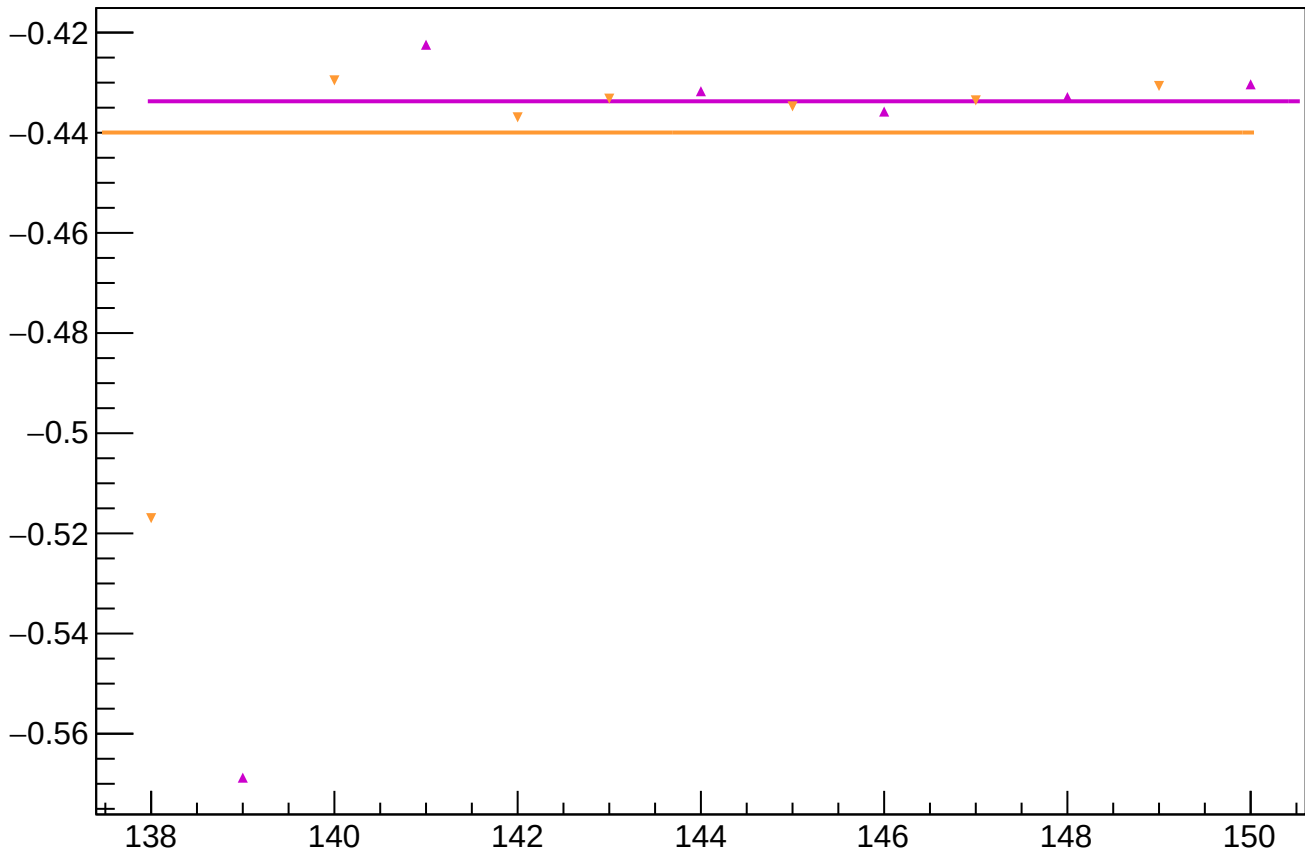
In: 0.008+/-0.000  $\chi^2/\text{NDF}$ :1407748.8/5

Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ :1144587.6/6

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 2552668.8/12



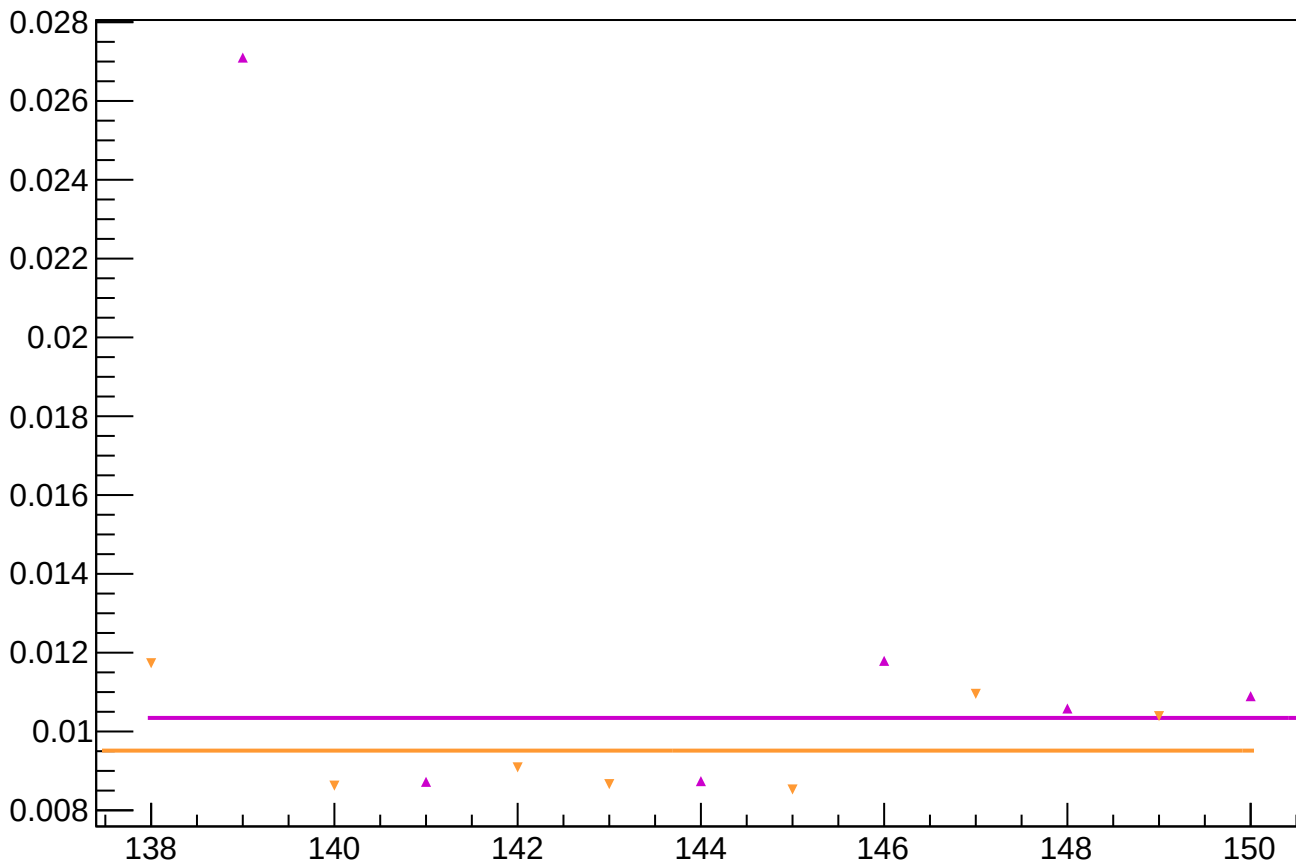
# yield\_bpm16X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: -0.440+/-0.000  $\chi^2/\text{NDF}$ : 23687055.2/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: -0.434+/-0.000  $\chi^2/\text{NDF}$ : 18831862.7/5

Left: -0.437+/-0.000  $\chi^2/\text{NDF}$ : 43266584.9/12  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: -0.434+/-0.000  $\chi^2/\text{NDF}$ : 18831862.7/5  
Out: -0.440+/-0.000  $\chi^2/\text{NDF}$ : 23687055.2/6  
All: -0.437+/-0.000  $\chi^2/\text{NDF}$ : 43266584.9/12

# yield\_bpm16X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ :107723.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.010+/-0.000  $\chi^2/\text{NDF}$ :656208.9/5

Left: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 790384.0/12

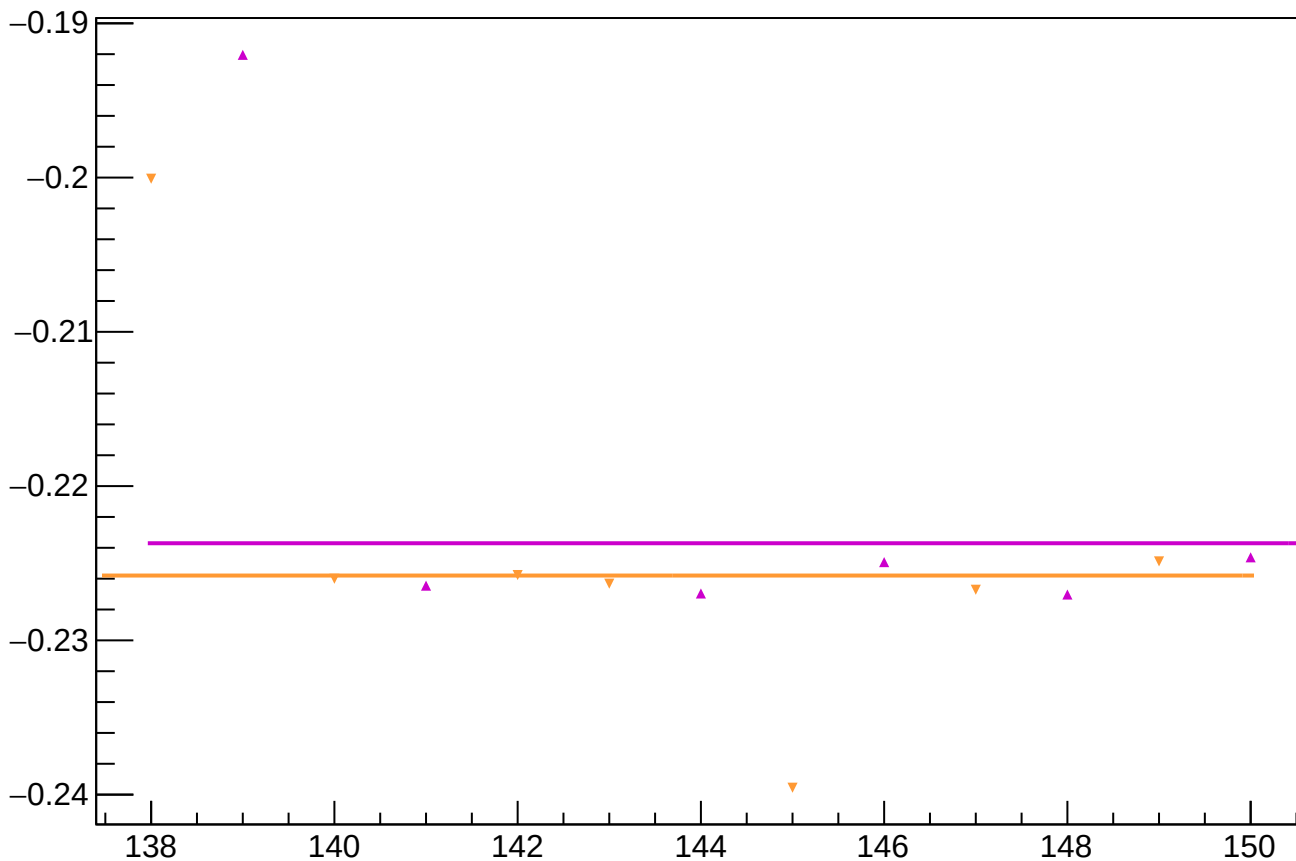
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.010+/-0.000  $\chi^2/\text{NDF}$ :656208.9/5

Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ :107723.5/6

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 790384.0/12

# yield\_bpm16Y\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.226+/-0.000  $\chi^2/\text{NDF}$ :20512481.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.224+/-0.000  $\chi^2/\text{NDF}$ :12071982.6/5

Left: -0.225+/-0.000  $\chi^2/\text{NDF}$ : 32980810.3/12

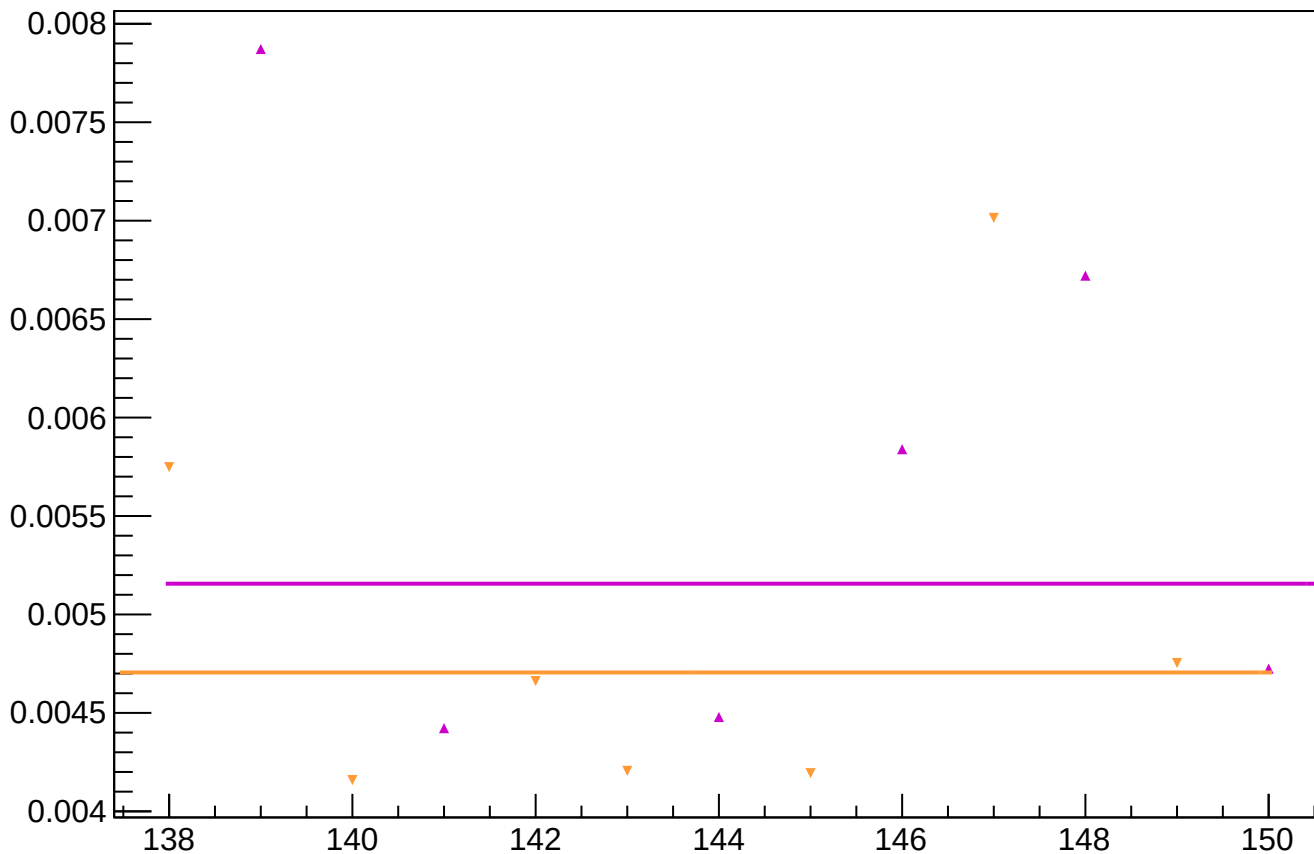
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.224+/-0.000  $\chi^2/\text{NDF}$ :12071982.6/5

Out: -0.226+/-0.000  $\chi^2/\text{NDF}$ :20512481.1/6

All: -0.225+/-0.000  $\chi^2/\text{NDF}$ : 32980810.3/12

# yield\_bpm16Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 271602.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 358378.0/5

Left: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 666763.6/12

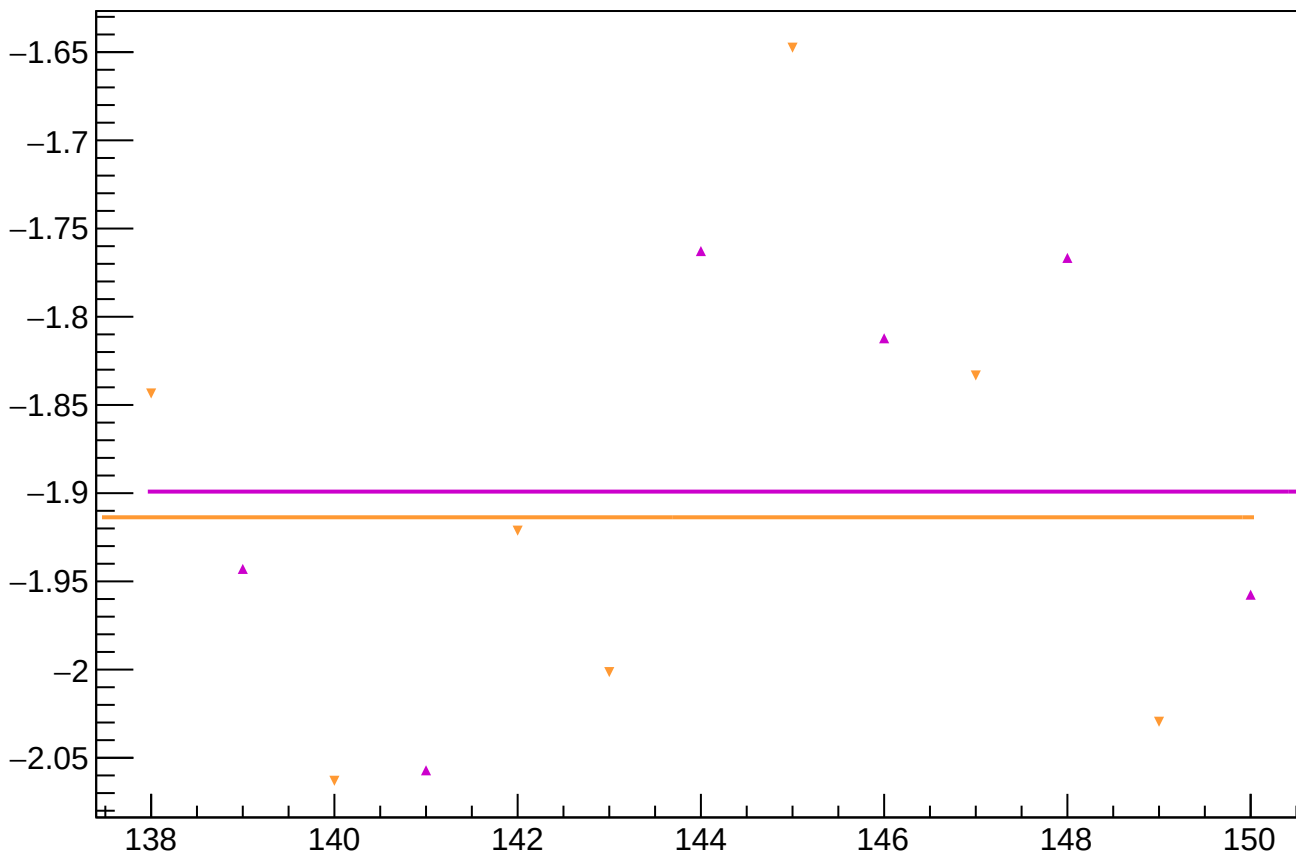
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 358378.0/5

Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 271602.9/6

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 666763.6/12

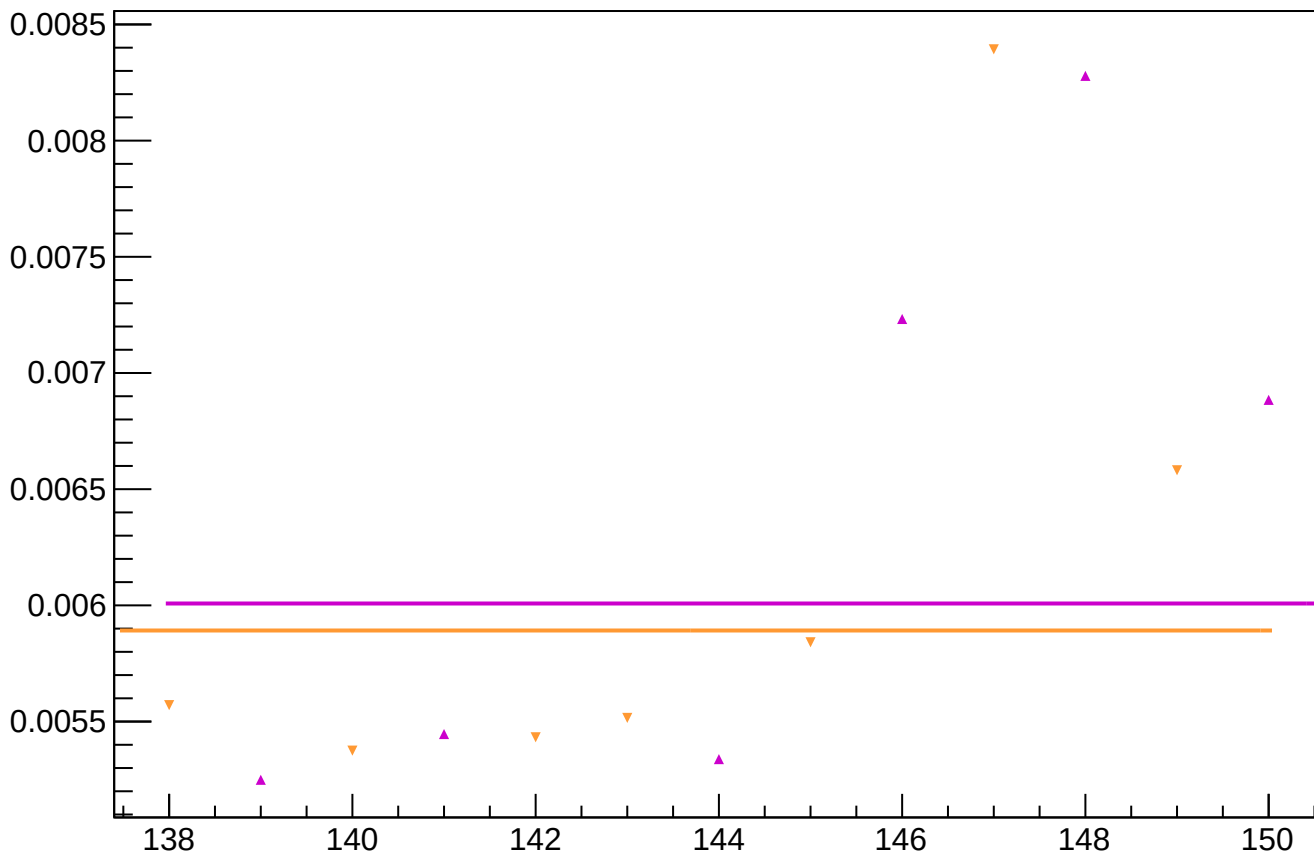
# yield\_bpm0l01X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.914+/-0.000  $\chi^2/\text{NDF}$ :2661346323.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.899+/-0.000  $\chi^2/\text{NDF}$ :1622268002.7/5

Left: -1.907+/-0.000  $\chi^2/\text{NDF}$ : 4297172838.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.899+/-0.000  $\chi^2/\text{NDF}$ :1622268002.7/5  
 Out: -1.914+/-0.000  $\chi^2/\text{NDF}$ :2661346323.0/6  
 All: -1.907+/-0.000  $\chi^2/\text{NDF}$ : 4297172838.2/12

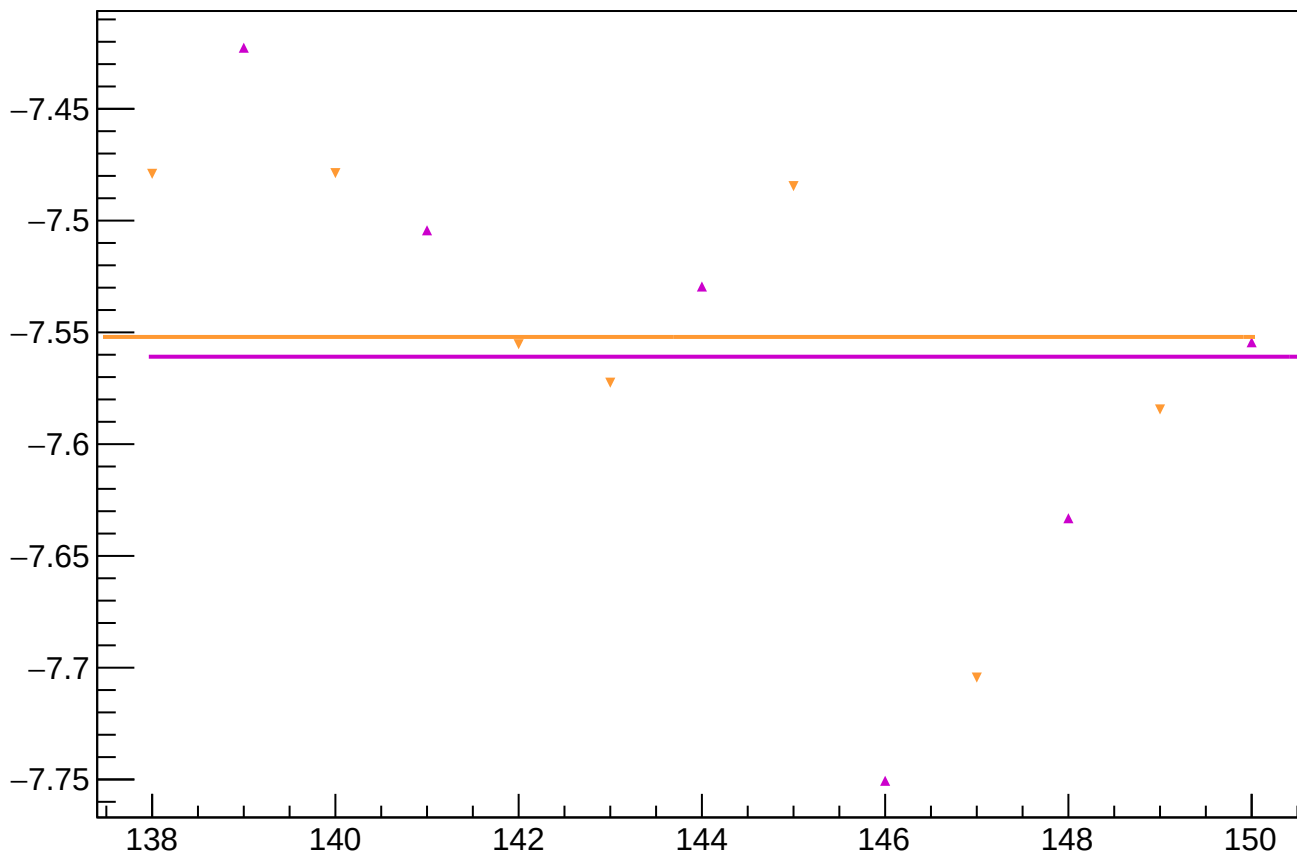
# yield\_bpm0l01X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ :171527.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.006+/-0.000  $\chi^2/\text{NDF}$ :246042.8/5

Left: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 419297.6/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.006+/-0.000  $\chi^2/\text{NDF}$ :246042.8/5  
 Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ :171527.4/6  
 All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 419297.6/12

# yield\_bpm0l01Y\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -7.552+/-0.000  $\chi^2$ /NDF:360555184.1/6

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -7.561+/-0.000  $\chi^2$ /NDF:510828341.9/5

Left: -7.556+/-0.000  $\chi^2$ /NDF: 873509506.3/12

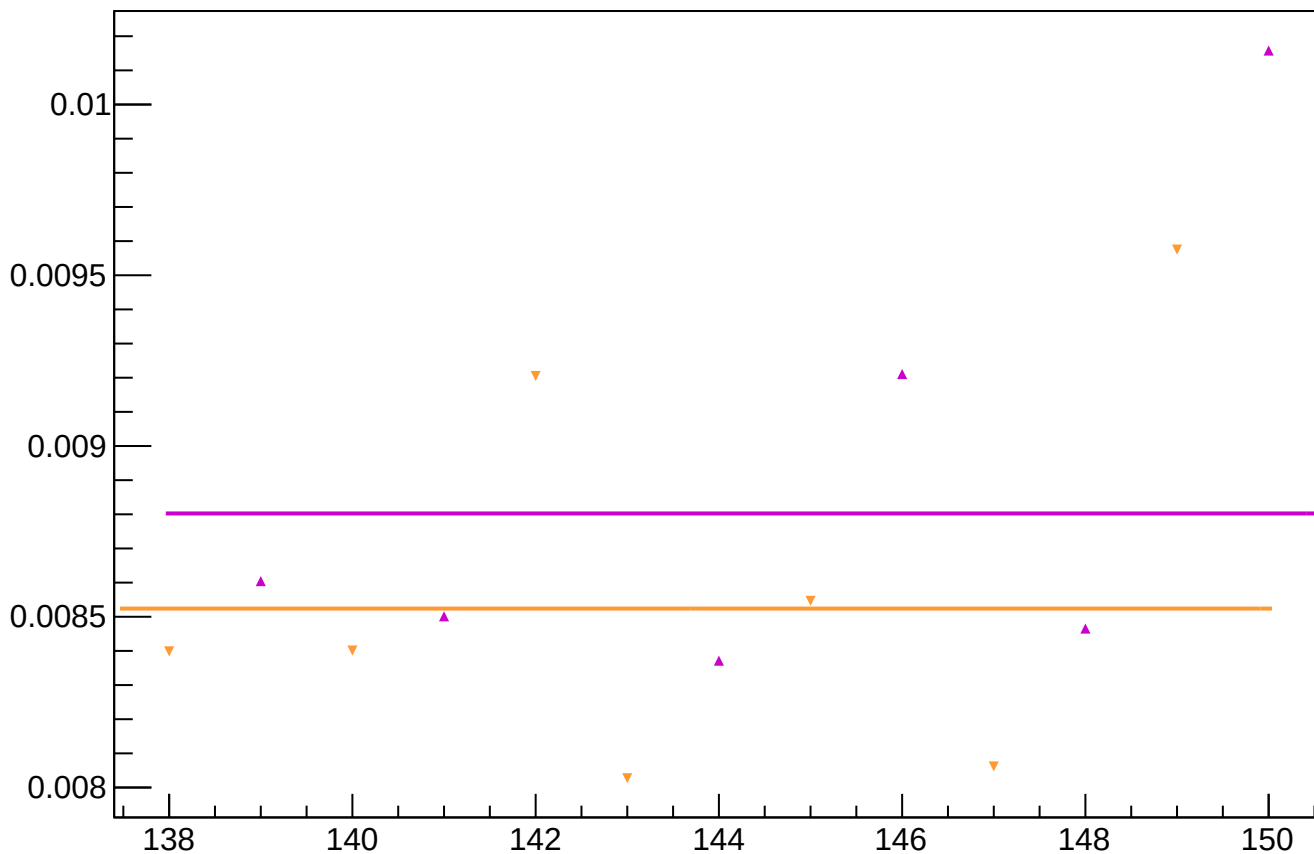
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: -7.561+/-0.000  $\chi^2$ /NDF:510828341.9/5

Out: -7.552+/-0.000  $\chi^2$ /NDF:360555184.1/6

All: -7.556+/-0.000  $\chi^2$ /NDF: 873509506.3/12

# yield\_bpm0l01Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ :29043.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.009+/-0.000  $\chi^2/\text{NDF}$ :37132.0/5

Left: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 70397.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

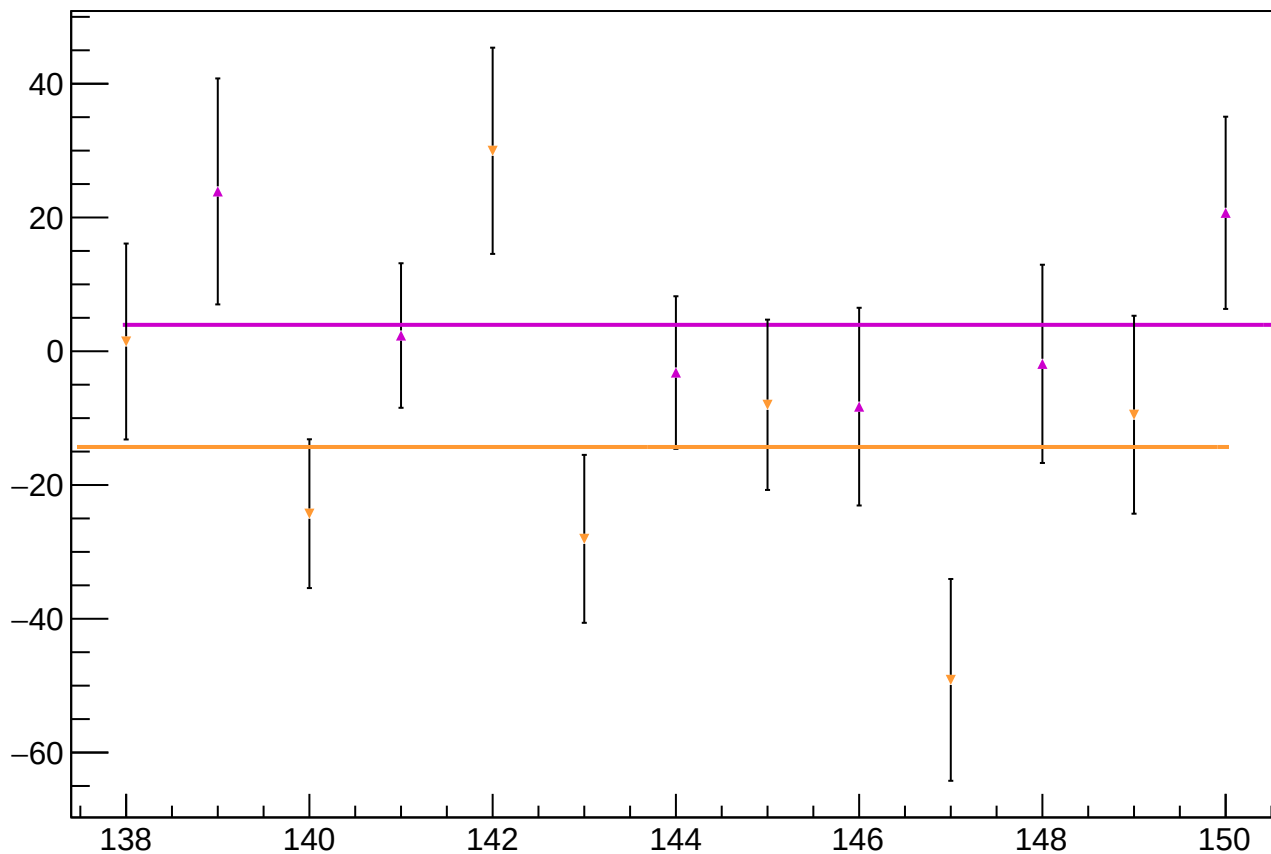
In: 0.009+/-0.000  $\chi^2/\text{NDF}$ :37132.0/5

Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ :29043.6/6

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 70397.9/12



# diff\_cav4bX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -14.313+/-5.102  $\chi^2/\text{NDF}$ :17.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 3.948+/-5.445  $\chi^2/\text{NDF}$ :4.0/5

Left: -5.776+/-3.723  $\chi^2/\text{NDF}$ : 27.1/12

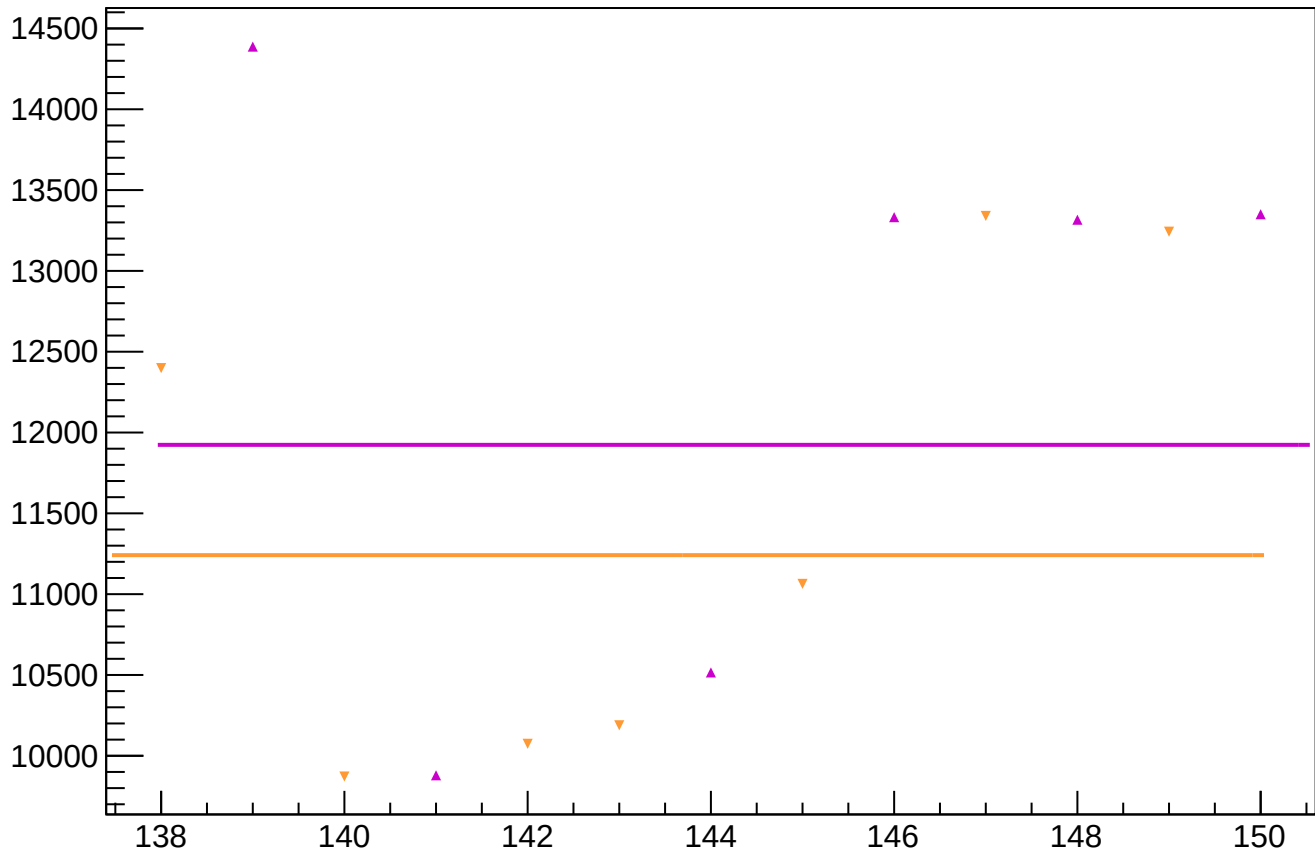
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3.948+/-5.445  $\chi^2/\text{NDF}$ :4.0/5

Out: -14.313+/-5.102  $\chi^2/\text{NDF}$ :17.1/6

All: -5.776+/-3.723  $\chi^2/\text{NDF}$ : 27.1/12

# diff\_cav4bX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 11241.316+/-3.607  $\chi^2/\text{NDF}$ :143998.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 11923.728+/-3.850  $\chi^2/\text{NDF}$ :200156.7/5

Left: 11560.312+/-2.633  $\chi^2/\text{NDF}$ : 360883.0/12

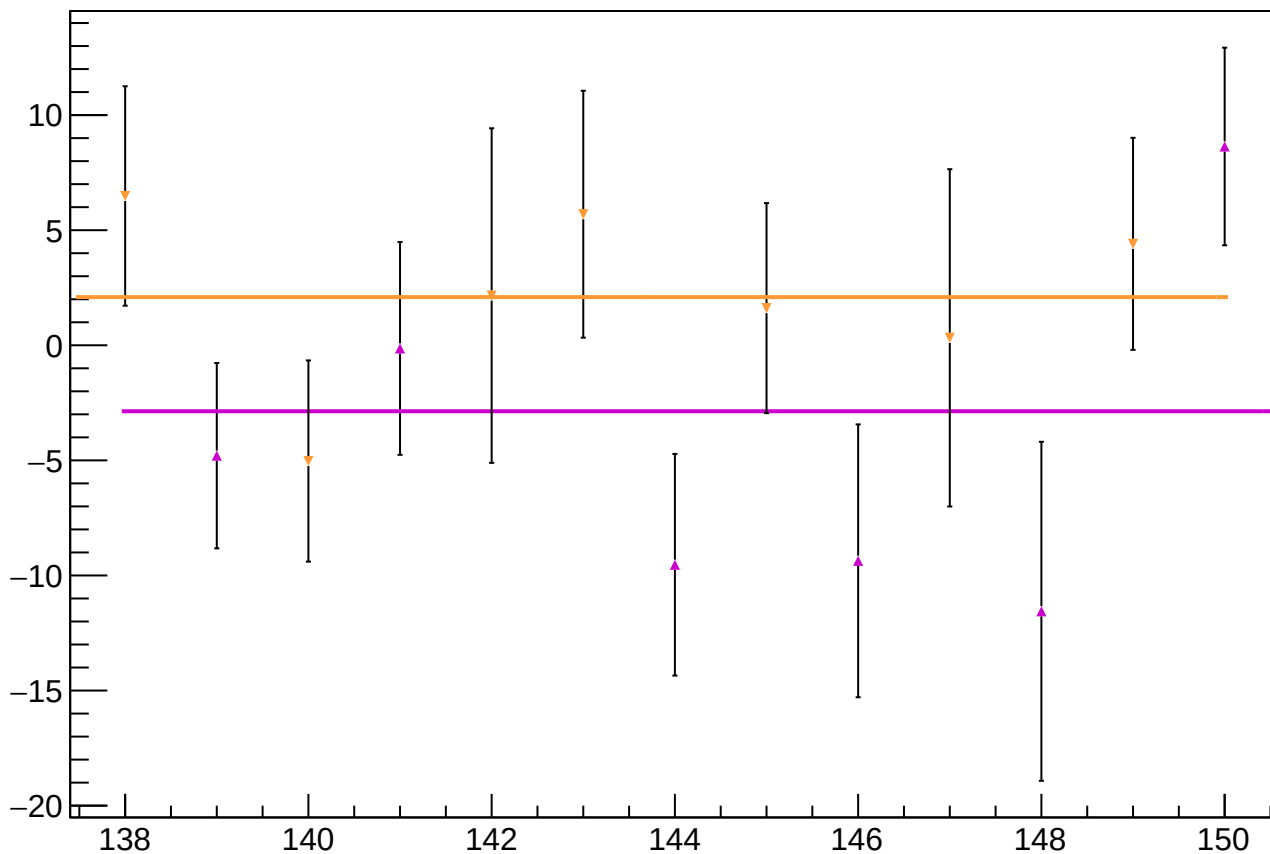
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 11923.728+/-3.850  $\chi^2/\text{NDF}$ :200156.7/5

Out: 11241.316+/-3.607  $\chi^2/\text{NDF}$ :143998.3/6

All: 11560.312+/-2.633  $\chi^2/\text{NDF}$ : 360883.0/12

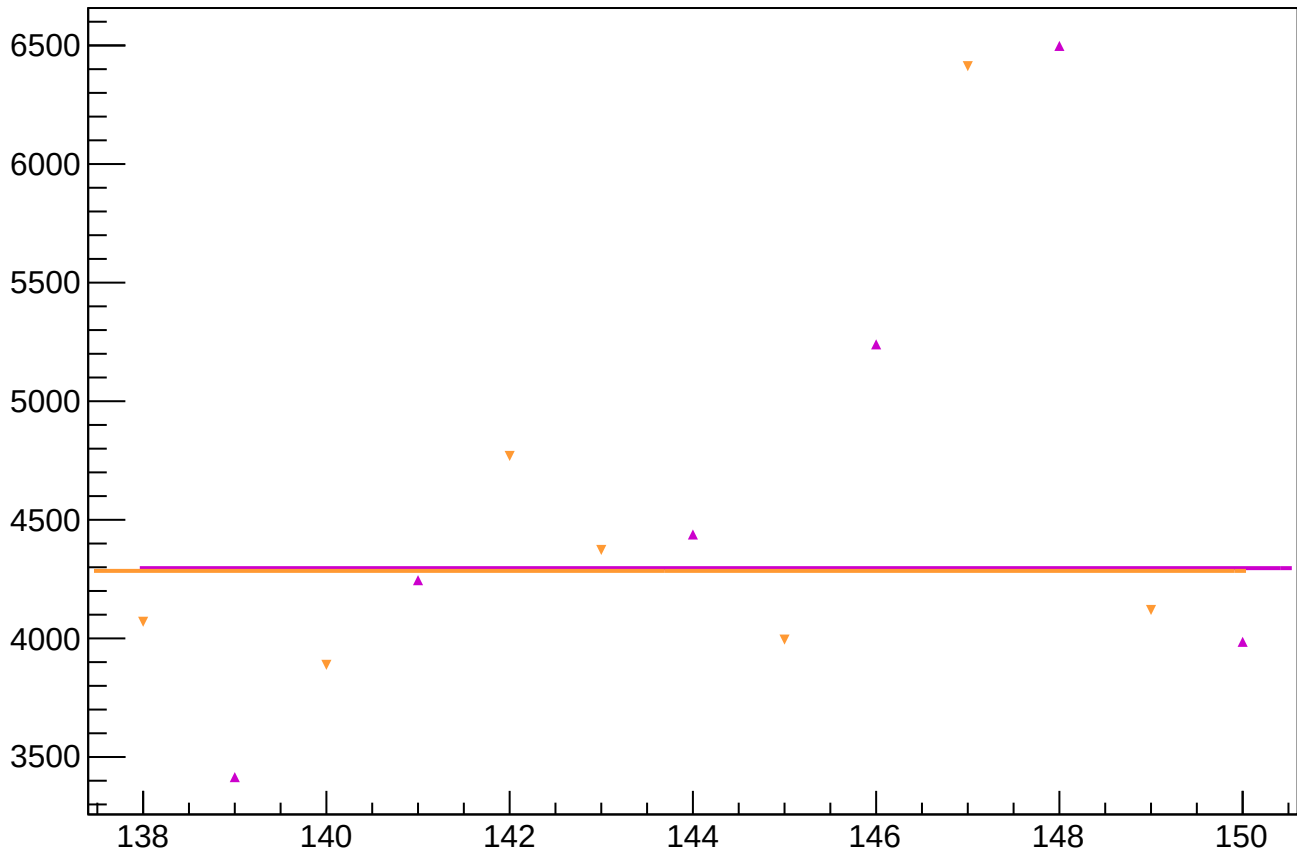
# diff\_cav4bY\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 2.093 $\pm$ 1.947  $\chi^2$ /NDF:4.3/6  
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left In: -2.866 $\pm$ 1.989  $\chi^2$ /NDF:12.3/5

Left: -0.333 $\pm$ 1.391  $\chi^2$ /NDF: 19.7/12  
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
In: -2.866 $\pm$ 1.989  $\chi^2$ /NDF:12.3/5  
Out: 2.093 $\pm$ 1.947  $\chi^2$ /NDF:4.3/6  
All: -0.333 $\pm$ 1.391  $\chi^2$ /NDF: 19.7/12

# diff\_cav4bY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4284.719+/-1.377  $\chi^2/\text{NDF}$ : 209228.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4296.238+/-1.406  $\chi^2/\text{NDF}$ : 337729.5/5

Left: 4290.355+/-0.984  $\chi^2/\text{NDF}$ : 546992.4/12

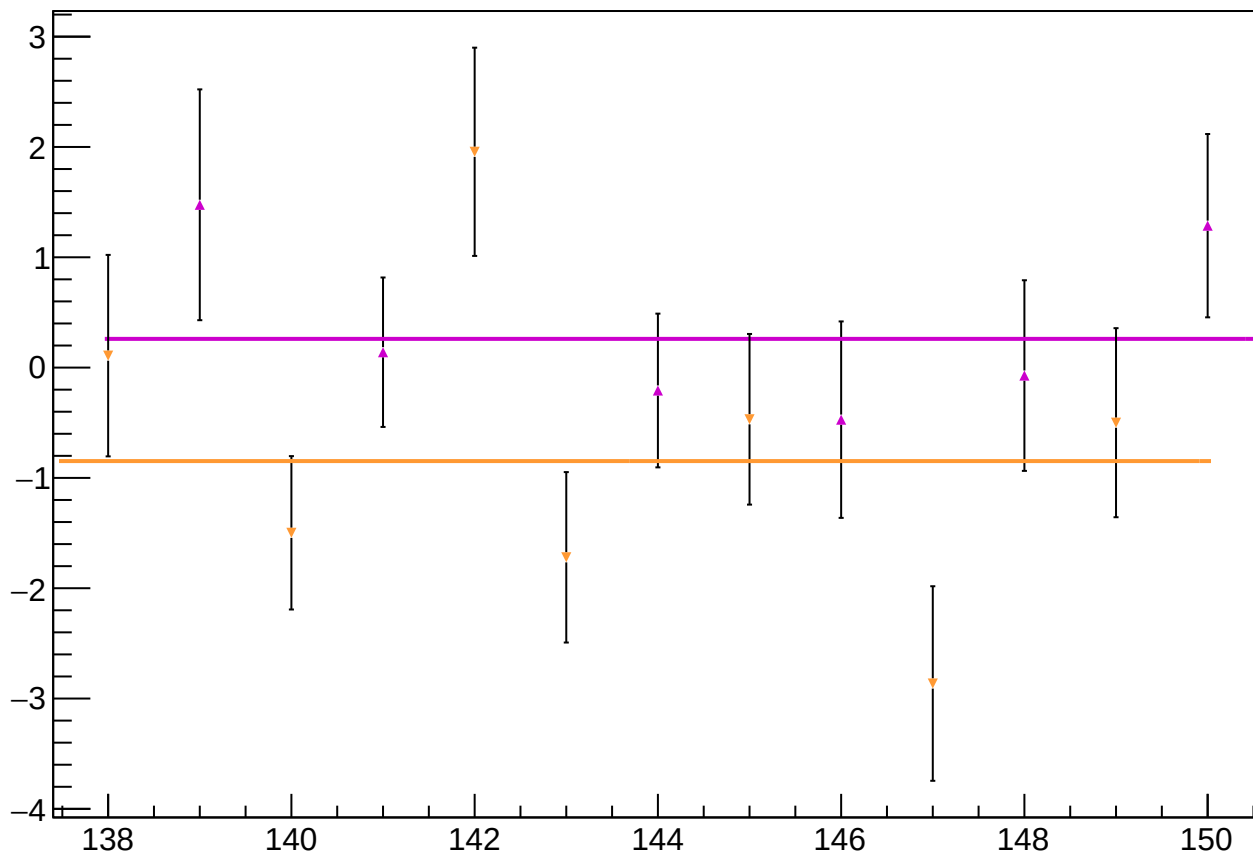
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4296.238+/-1.406  $\chi^2/\text{NDF}$ : 337729.5/5

Out: 4284.719+/-1.377  $\chi^2/\text{NDF}$ : 209228.6/6

All: 4290.355+/-0.984  $\chi^2/\text{NDF}$ : 546992.4/12

# diff\_cav4cX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.847+/-0.310  $\chi^2/\text{NDF}$ :17.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.260+/-0.330  $\chi^2/\text{NDF}$ :4.2/5

Left: -0.327+/-0.226  $\chi^2/\text{NDF}$ : 27.9/12

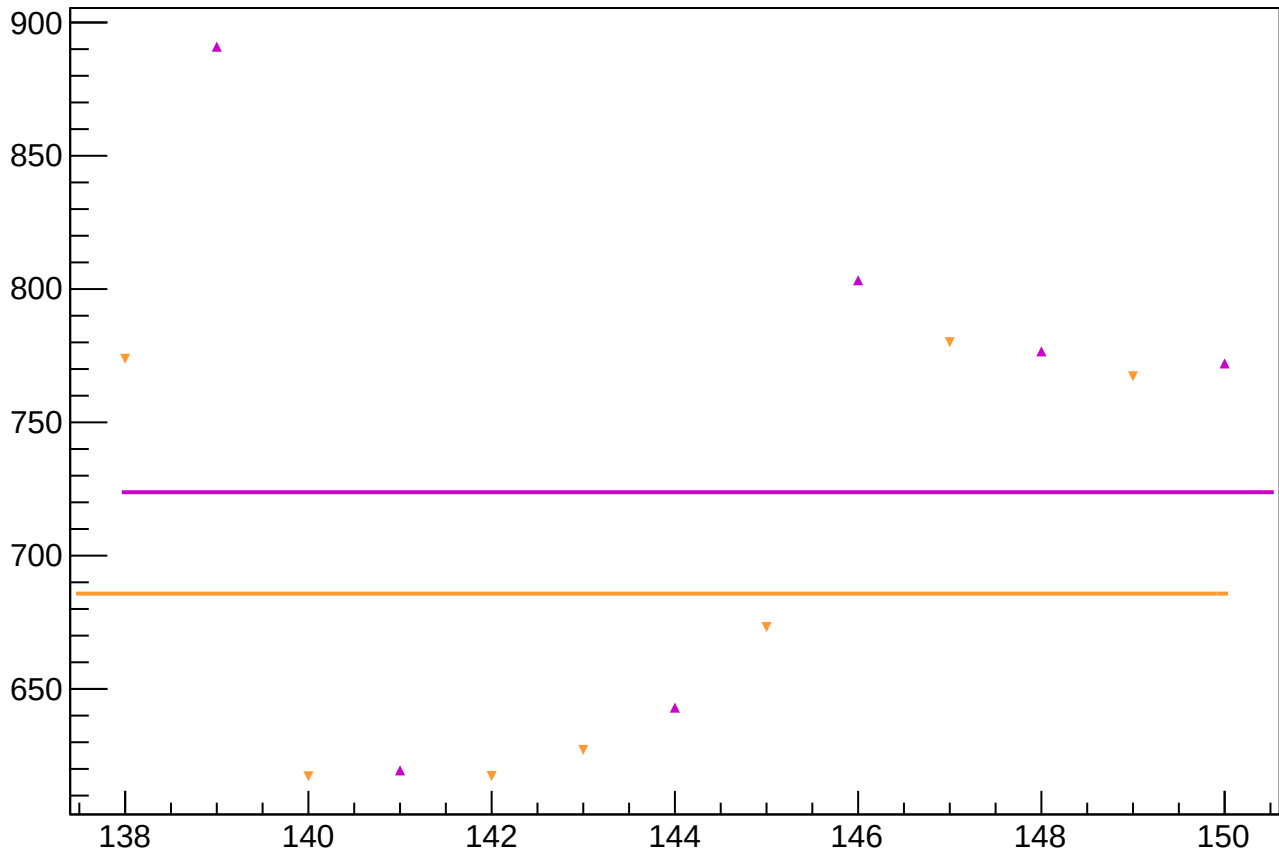
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.260+/-0.330  $\chi^2/\text{NDF}$ :4.2/5

Out: -0.847+/-0.310  $\chi^2/\text{NDF}$ :17.7/6

All: -0.327+/-0.226  $\chi^2/\text{NDF}$ : 27.9/12

# diff\_cav4cX\_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 685.758 $\pm$ 0.219  $\chi^2/\text{NDF}$ :101580.5/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 723.791 $\pm$ 0.233  $\chi^2/\text{NDF}$ :155586.4/5

Left: 703.626 $\pm$ 0.160  $\chi^2/\text{NDF}$ : 271282.2/12

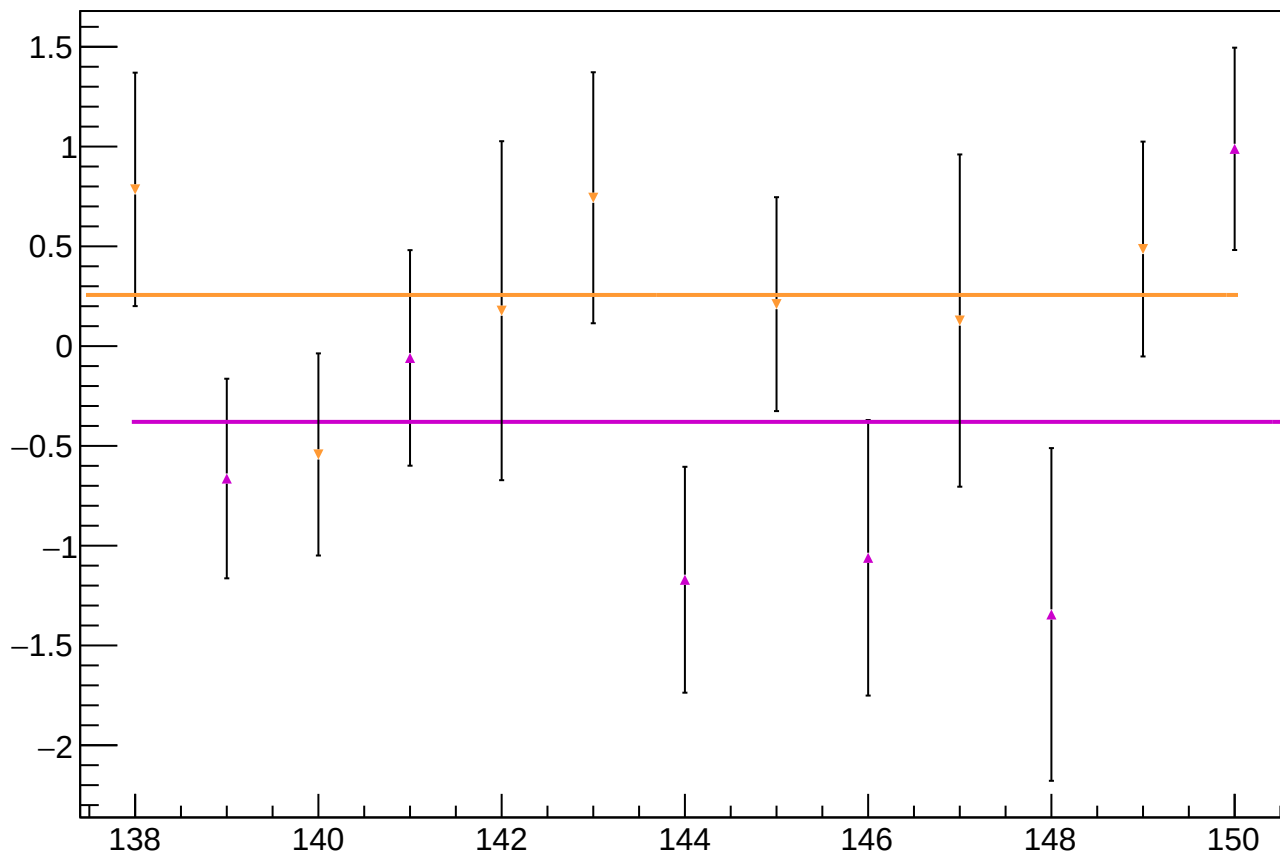
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 723.791 $\pm$ 0.233  $\chi^2/\text{NDF}$ :155586.4/5

Out: 685.758 $\pm$ 0.219  $\chi^2/\text{NDF}$ :101580.5/6

All: 703.626 $\pm$ 0.160  $\chi^2/\text{NDF}$ : 271282.2/12

# diff\_cav4cY\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.256 $\pm$ 0.229  $\chi^2/\text{NDF}$ : 4.1/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.380 $\pm$ 0.236  $\chi^2/\text{NDF}$ : 12.2/5

Left: -0.052 $\pm$ 0.164  $\chi^2/\text{NDF}$ : 20.1/12

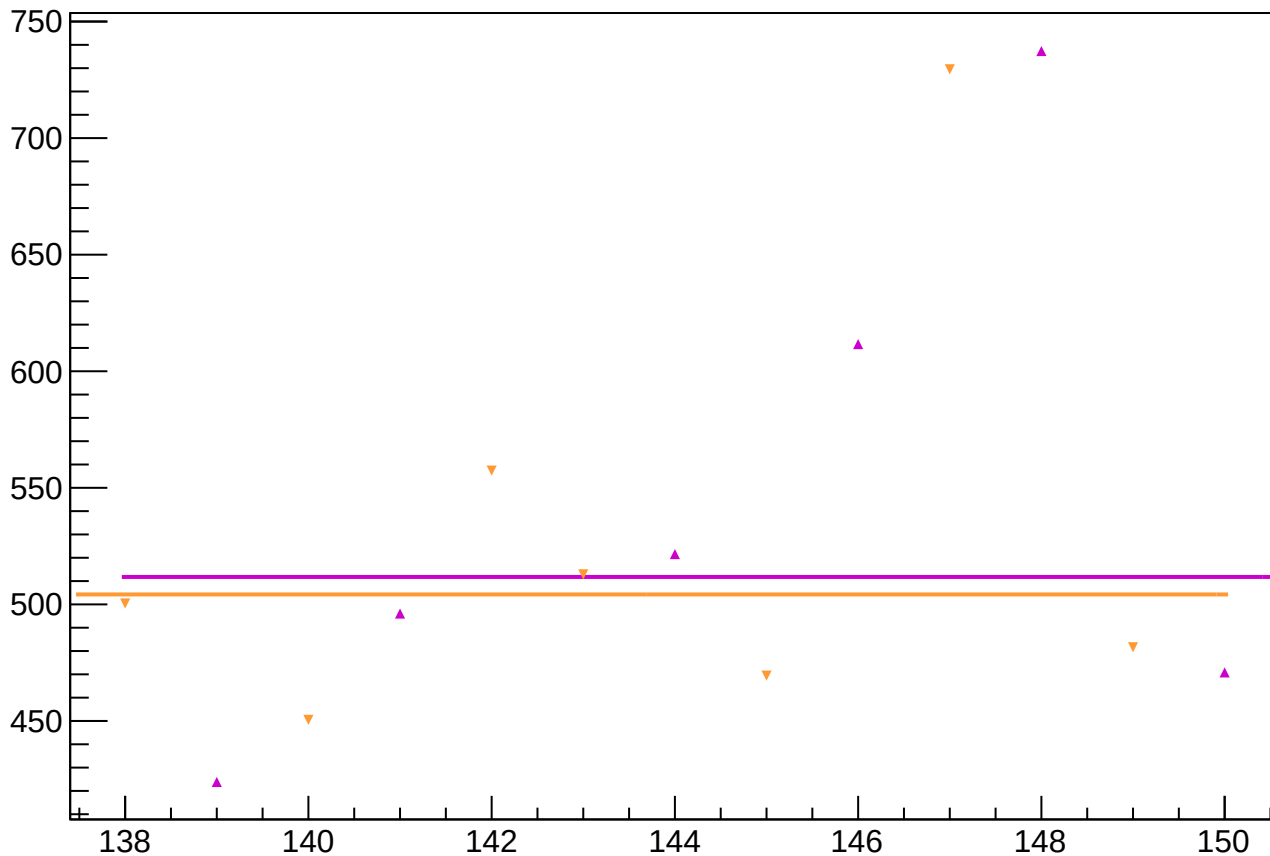
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.380 $\pm$ 0.236  $\chi^2/\text{NDF}$ : 12.2/5

Out: 0.256 $\pm$ 0.229  $\chi^2/\text{NDF}$ : 4.1/6

All: -0.052 $\pm$ 0.164  $\chi^2/\text{NDF}$ : 20.1/12

# diff\_cav4cY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 504.267+/-0.162  $\chi^2/\text{NDF}$ :189248.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 511.773+/-0.167  $\chi^2/\text{NDF}$ :265454.0/5

Left: 507.905+/-0.116  $\chi^2/\text{NDF}$ : 455746.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

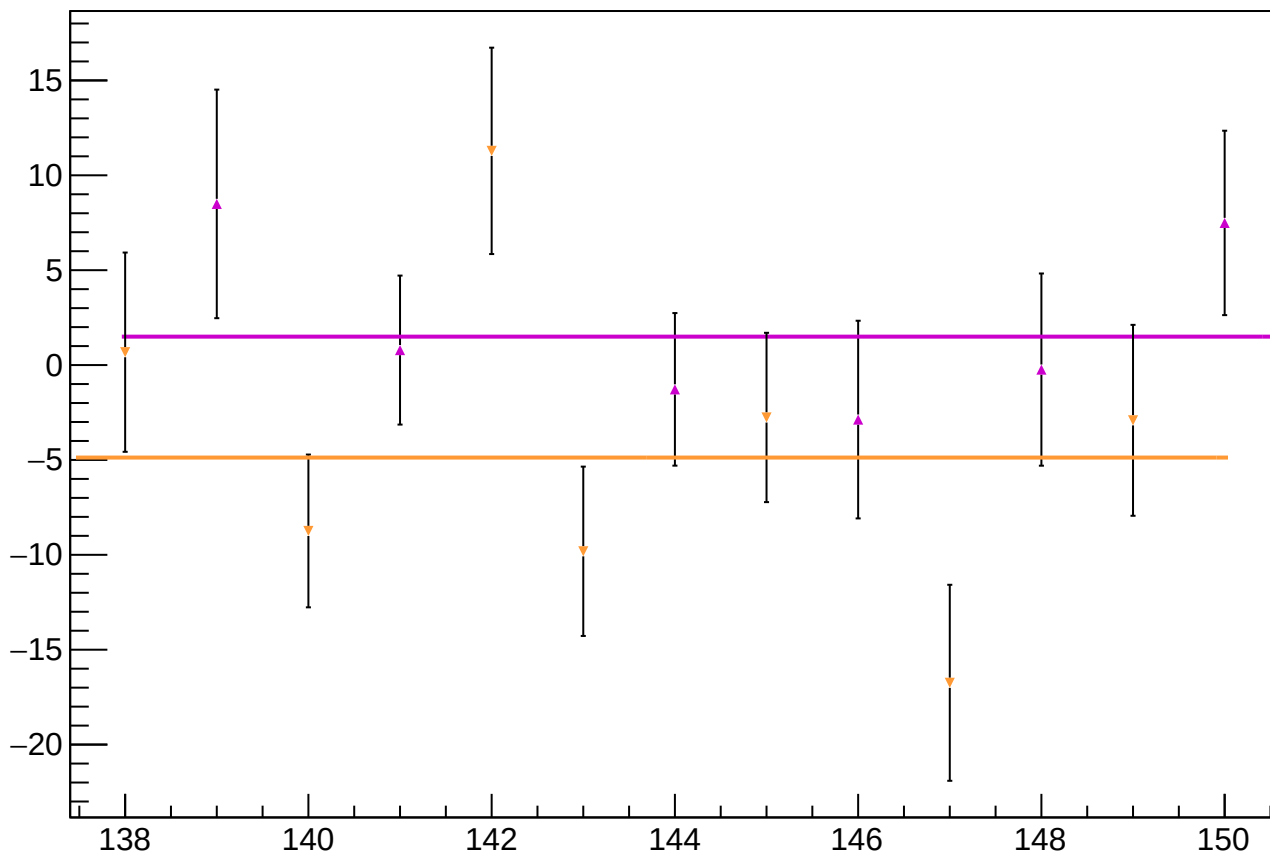
In: 511.773+/-0.167  $\chi^2/\text{NDF}$ :265454.0/5

Out: 504.267+/-0.162  $\chi^2/\text{NDF}$ :189248.4/6

All: 507.905+/-0.116  $\chi^2/\text{NDF}$ : 455746.0/12



# diff\_cav4dX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -4.874+/-1.798  $\chi^2/\text{NDF}$ :17.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1.498+/-1.916  $\chi^2/\text{NDF}$ :4.2/5

Left: -1.890+/-1.311  $\chi^2/\text{NDF}$ : 27.8/12

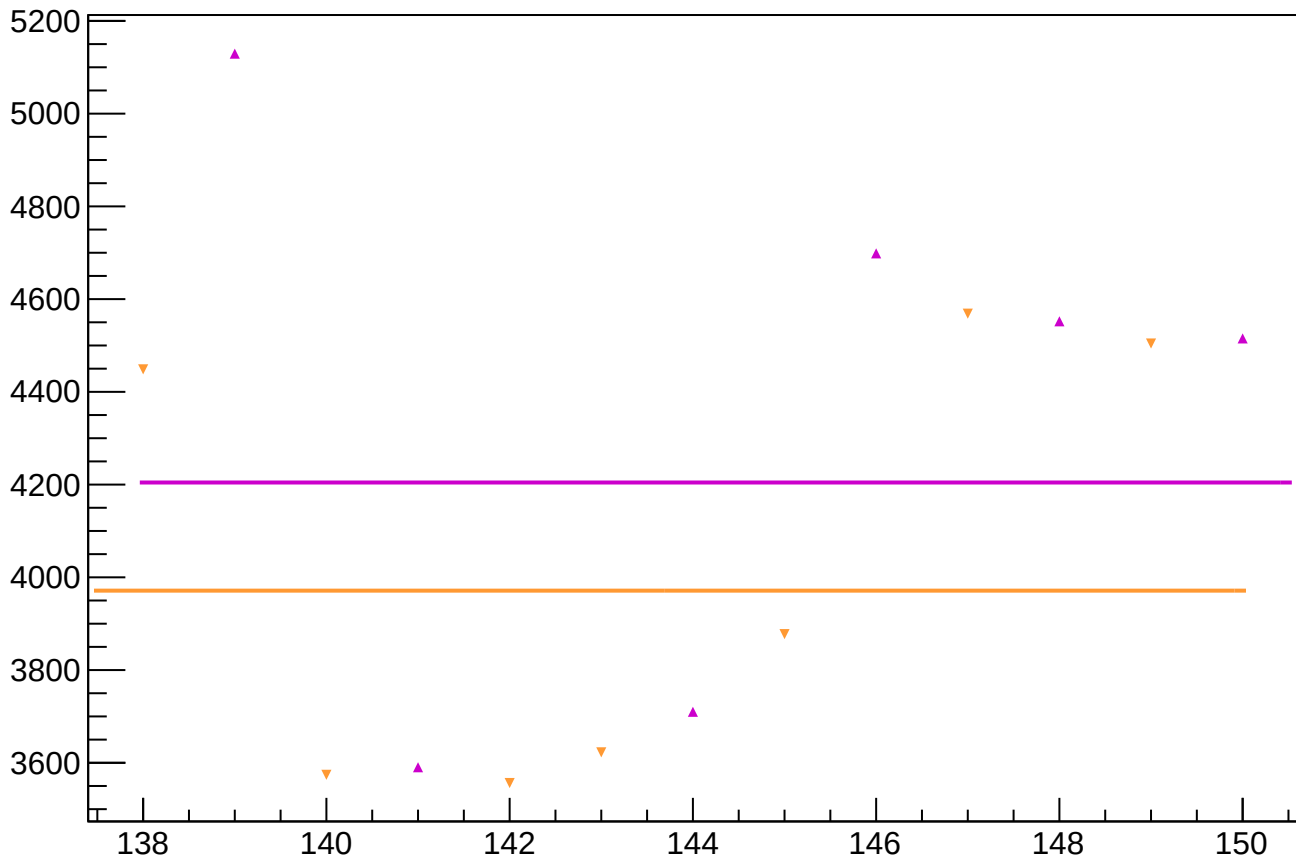
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1.498+/-1.916  $\chi^2/\text{NDF}$ :4.2/5

Out: -4.874+/-1.798  $\chi^2/\text{NDF}$ :17.8/6

All: -1.890+/-1.311  $\chi^2/\text{NDF}$ : 27.8/12

# diff\_cav4dX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3971.293+/-1.271  $\chi^2/\text{NDF}$ :109938.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4204.499+/-1.355  $\chi^2/\text{NDF}$ :161960.9/5

Left: 4080.531+/-0.927  $\chi^2/\text{NDF}$ : 287656.2/12

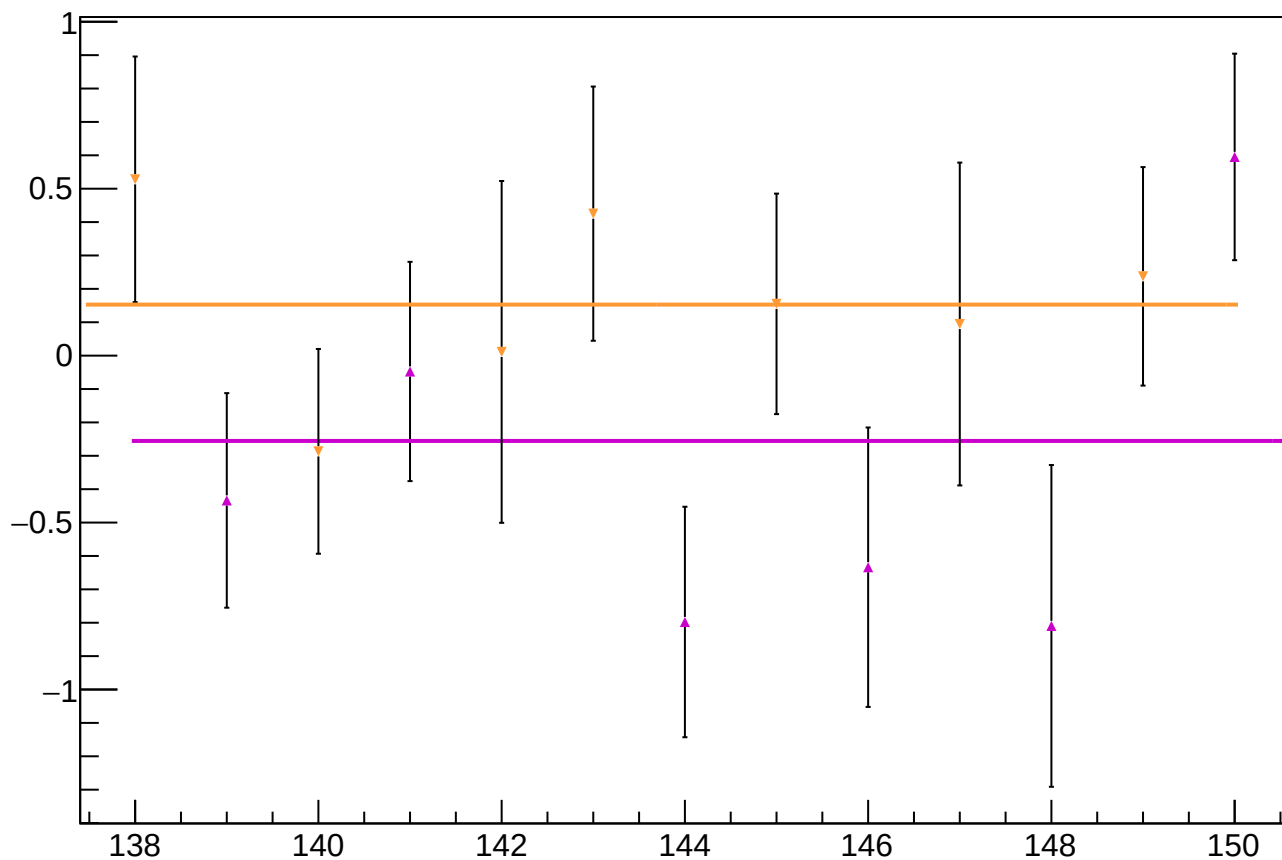
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4204.499+/-1.355  $\chi^2/\text{NDF}$ :161960.9/5

Out: 3971.293+/-1.271  $\chi^2/\text{NDF}$ :109938.0/6

All: 4080.531+/-0.927  $\chi^2/\text{NDF}$ : 287656.2/12

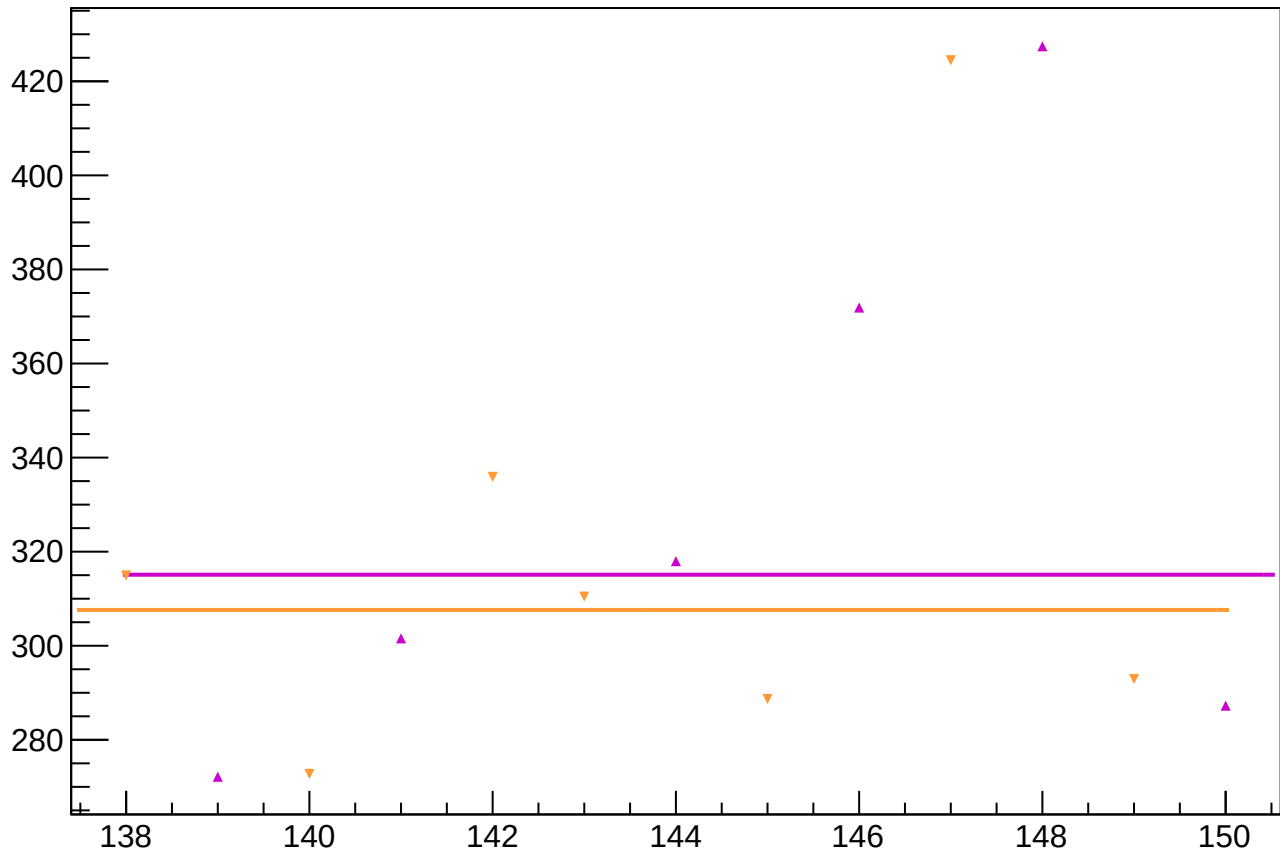
# diff\_cav4dY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.153+/-0.139  $\chi^2/\text{NDF}$ : 3.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.256+/-0.145  $\chi^2/\text{NDF}$ : 12.9/5

Left: -0.044+/-0.100  $\chi^2/\text{NDF}$ : 20.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.256+/-0.145  $\chi^2/\text{NDF}$ : 12.9/5  
 Out: 0.153+/-0.139  $\chi^2/\text{NDF}$ : 3.8/6  
 All: -0.044+/-0.100  $\chi^2/\text{NDF}$ : 20.8/12

# diff\_cav4dY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 307.614+/-0.099  $\chi^2/\text{NDF}$ :160322.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 315.103+/-0.102  $\chi^2/\text{NDF}$ :201024.7/5

Left: 311.219+/-0.071  $\chi^2/\text{NDF}$ : 364129.4/12

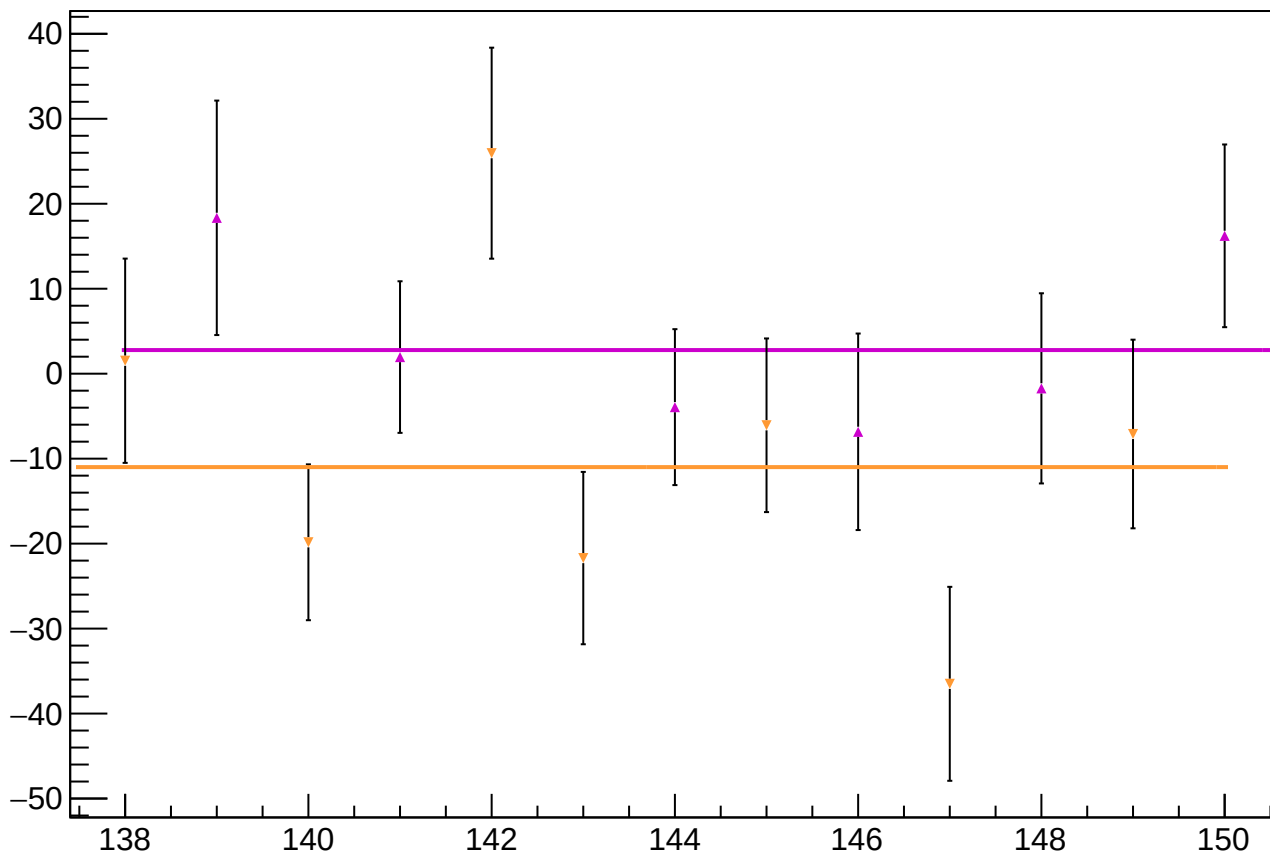
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 315.103+/-0.102  $\chi^2/\text{NDF}$ :201024.7/5

Out: 307.614+/-0.099  $\chi^2/\text{NDF}$ :160322.3/6

All: 311.219+/-0.071  $\chi^2/\text{NDF}$ : 364129.4/12

# diff\_bpm4aX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.995+/-4.069  $\chi^2/\text{NDF}$ :17.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.780+/-4.311  $\chi^2/\text{NDF}$ :4.2/5

Left: -4.504+/-2.959  $\chi^2/\text{NDF}$ : 27.0/12

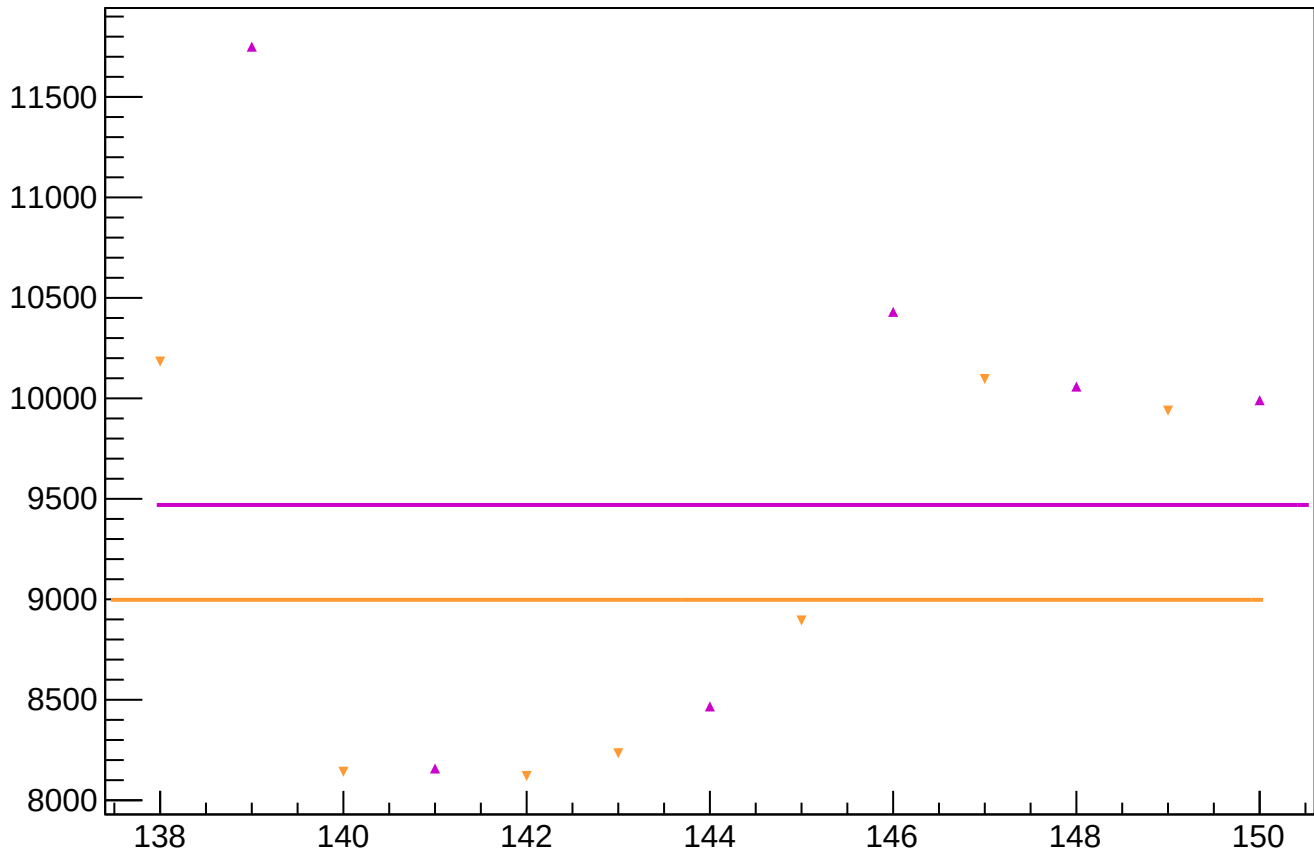
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.780+/-4.311  $\chi^2/\text{NDF}$ :4.2/5

Out: -10.995+/-4.069  $\chi^2/\text{NDF}$ :17.3/6

All: -4.504+/-2.959  $\chi^2/\text{NDF}$ : 27.0/12

# diff\_bpm4aX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8997.598+/-2.878  $\chi^2/\text{NDF}$ : 91290.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 9469.523+/-3.048  $\chi^2/\text{NDF}$ : 145808.0/5

Left: 9219.977+/-2.092  $\chi^2/\text{NDF}$ : 249773.2/12

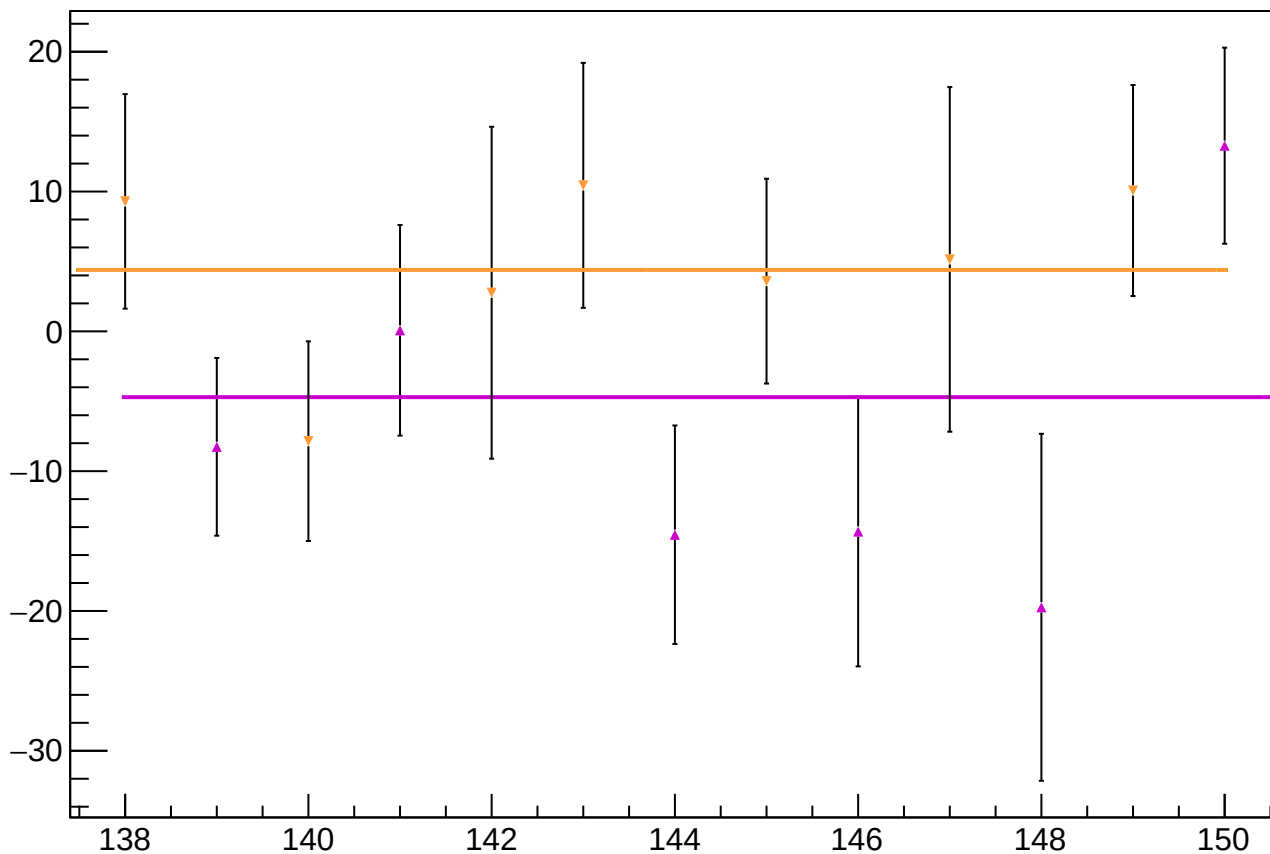
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9469.523+/-3.048  $\chi^2/\text{NDF}$ : 145808.0/5

Out: 8997.598+/-2.878  $\chi^2/\text{NDF}$ : 91290.6/6

All: 9219.977+/-2.092  $\chi^2/\text{NDF}$ : 249773.2/12

# diff\_bpm4aY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4.394+/-3.170  $\chi^2/\text{NDF}$ : 4.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -4.706+/-3.222  $\chi^2/\text{NDF}$ : 11.3/5

Left: -0.083+/-2.260  $\chi^2/\text{NDF}$ : 19.8/12

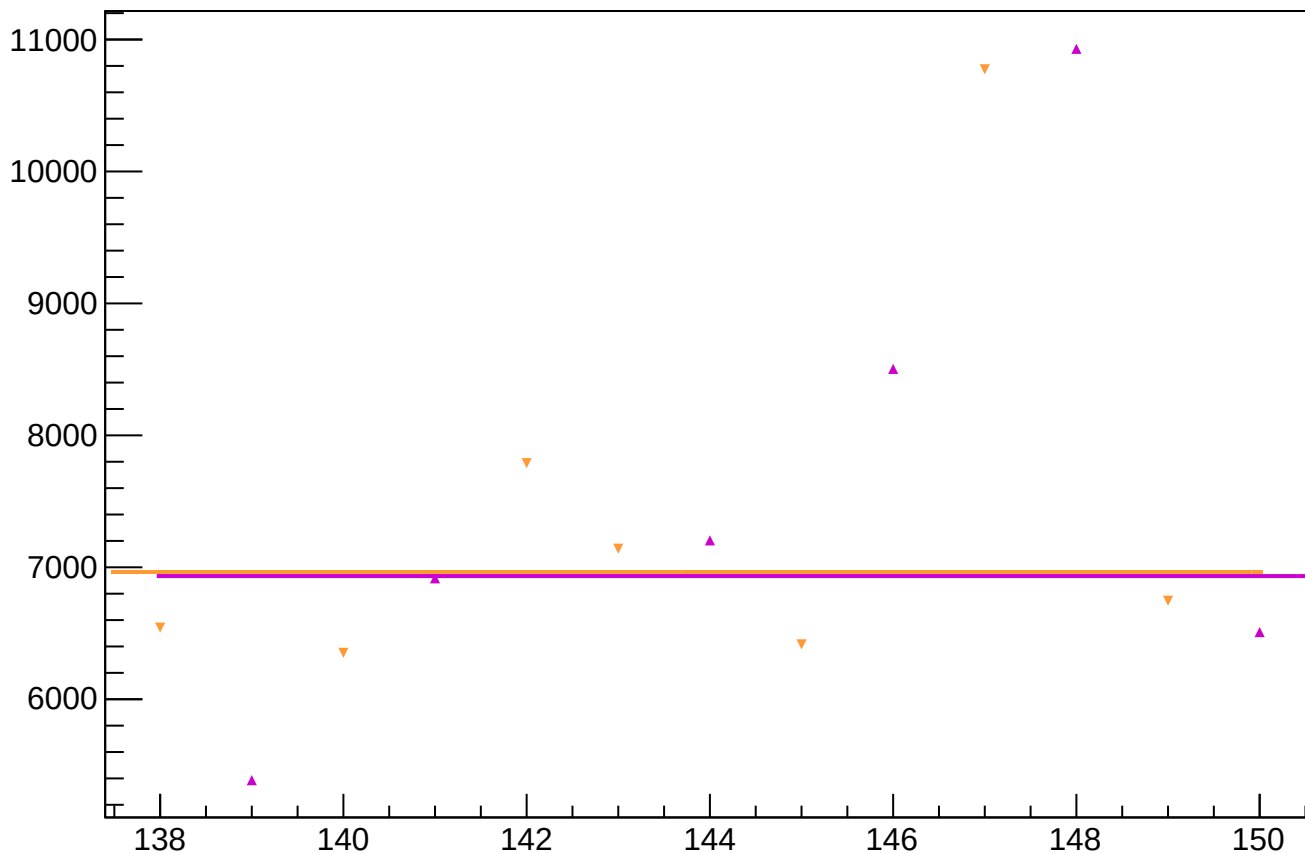
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.706+/-3.222  $\chi^2/\text{NDF}$ : 11.3/5

Out: 4.394+/-3.170  $\chi^2/\text{NDF}$ : 4.4/6

All: -0.083+/-2.260  $\chi^2/\text{NDF}$ : 19.8/12

# diff\_bpm4aY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6964.603+/-2.242  $\chi^2/\text{NDF}$ : 235226.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 6933.589+/-2.278  $\chi^2/\text{NDF}$ : 388653.2/5

Left: 6949.346+/-1.598  $\chi^2/\text{NDF}$ : 623973.5/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

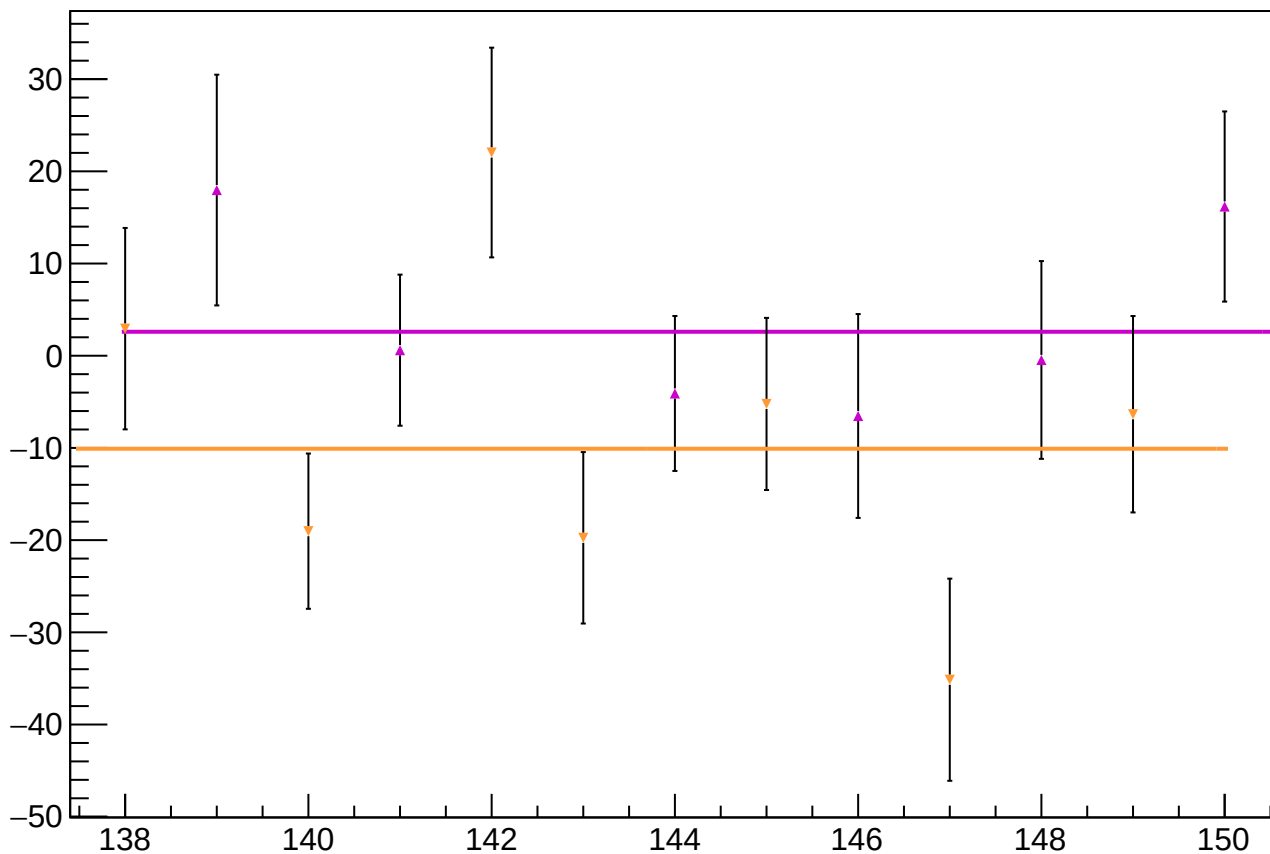
In: 6933.589+/-2.278  $\chi^2/\text{NDF}$ : 388653.2/5

Out: 6964.603+/-2.242  $\chi^2/\text{NDF}$ : 235226.1/6

All: 6949.346+/-1.598  $\chi^2/\text{NDF}$ : 623973.5/12



# diff\_bpm4eX\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -10.088 $\pm$ 3.769  $\chi^2$ /NDF:17.2/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.600 $\pm$ 4.025  $\chi^2$ /NDF:4.7/5

Left: -4.161 $\pm$ 2.751  $\chi^2$ /NDF: 27.2/12

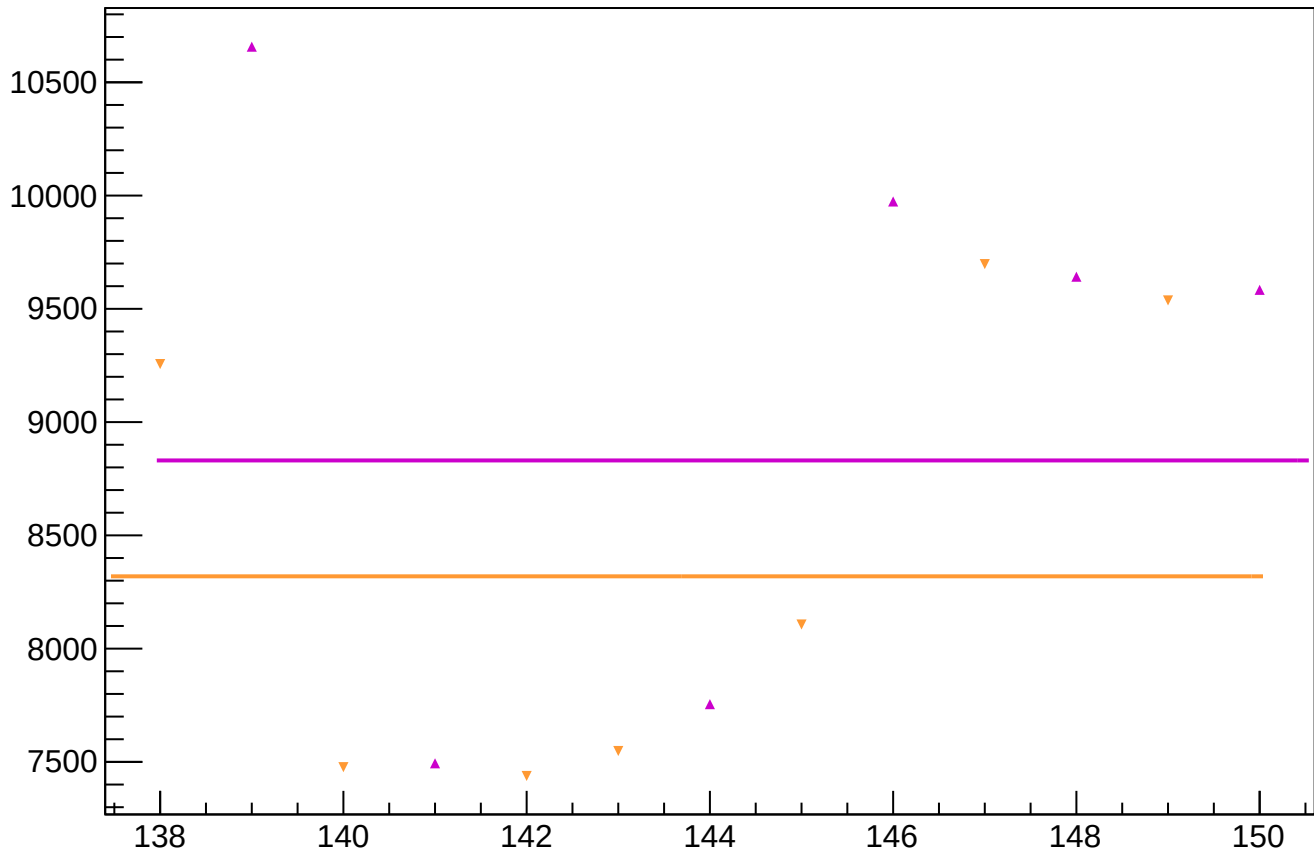
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 2.600 $\pm$ 4.025  $\chi^2$ /NDF:4.7/5

Out: -10.088 $\pm$ 3.769  $\chi^2$ /NDF:17.2/6

All: -4.161 $\pm$ 2.751  $\chi^2$ /NDF: 27.2/12

# diff\_bpm4eX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8319.173+/-2.665  $\chi^2/\text{NDF}$ :119308.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 8830.771+/-2.846  $\chi^2/\text{NDF}$ :172126.0/5

Left: 8558.167+/-1.945  $\chi^2/\text{NDF}$ : 308649.1/12

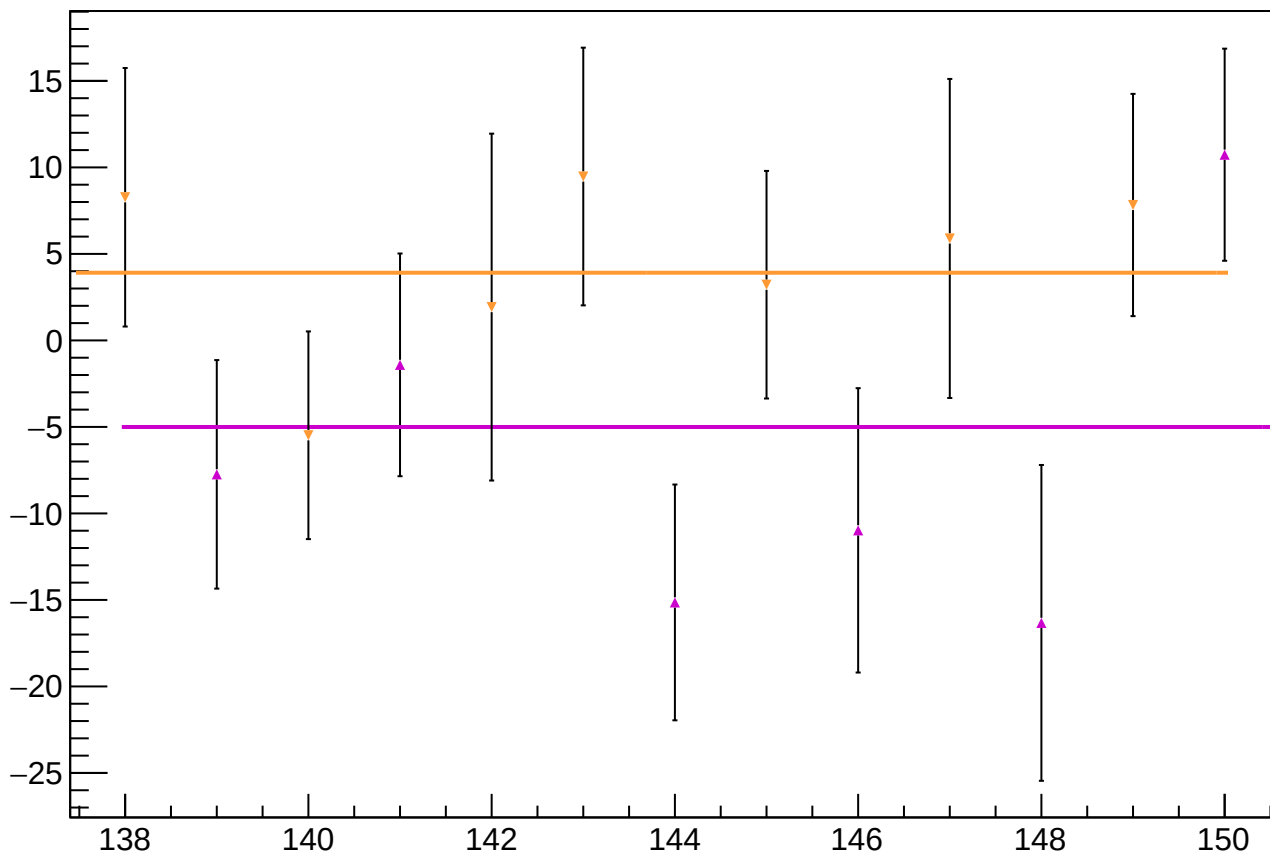
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8830.771+/-2.846  $\chi^2/\text{NDF}$ :172126.0/5

Out: 8319.173+/-2.665  $\chi^2/\text{NDF}$ :119308.5/6

All: 8558.167+/-1.945  $\chi^2/\text{NDF}$ : 308649.1/12

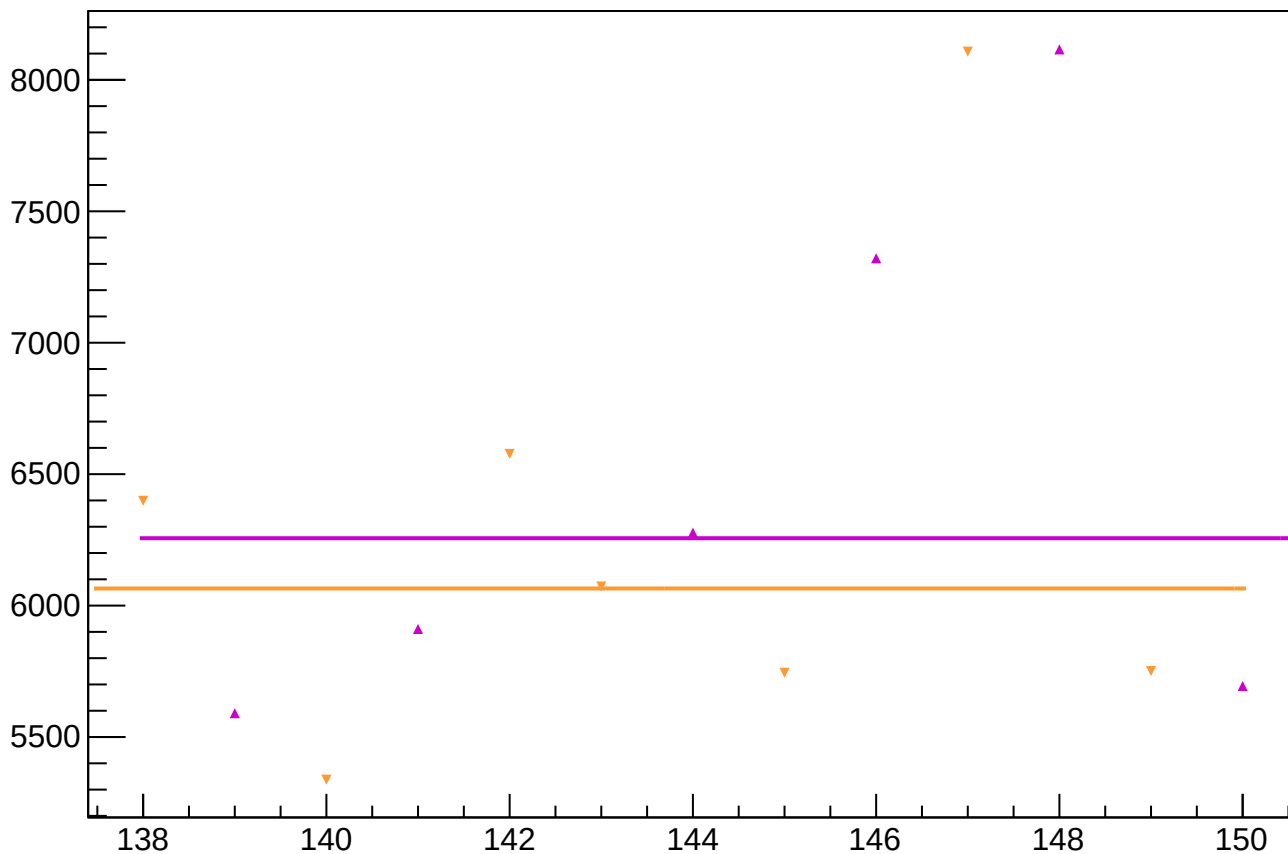
# diff\_bpm4eY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.912+/-2.744  $\chi^2/\text{NDF}$ : 3.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.004+/-2.863  $\chi^2/\text{NDF}$ : 11.4/5

Left: -0.358+/-1.981  $\chi^2/\text{NDF}$ : 20.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.004+/-2.863  $\chi^2/\text{NDF}$ : 11.4/5  
 Out: 3.912+/-2.744  $\chi^2/\text{NDF}$ : 3.8/6  
 All: -0.358+/-1.981  $\chi^2/\text{NDF}$ : 20.2/12

# diff\_bpm4eY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6065.103+/-1.941  $\chi^2/\text{NDF}$ :146206.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 6256.328+/-2.024  $\chi^2/\text{NDF}$ :159527.4/5

Left: 6156.683+/-1.401  $\chi^2/\text{NDF}$ : 310383.6/12

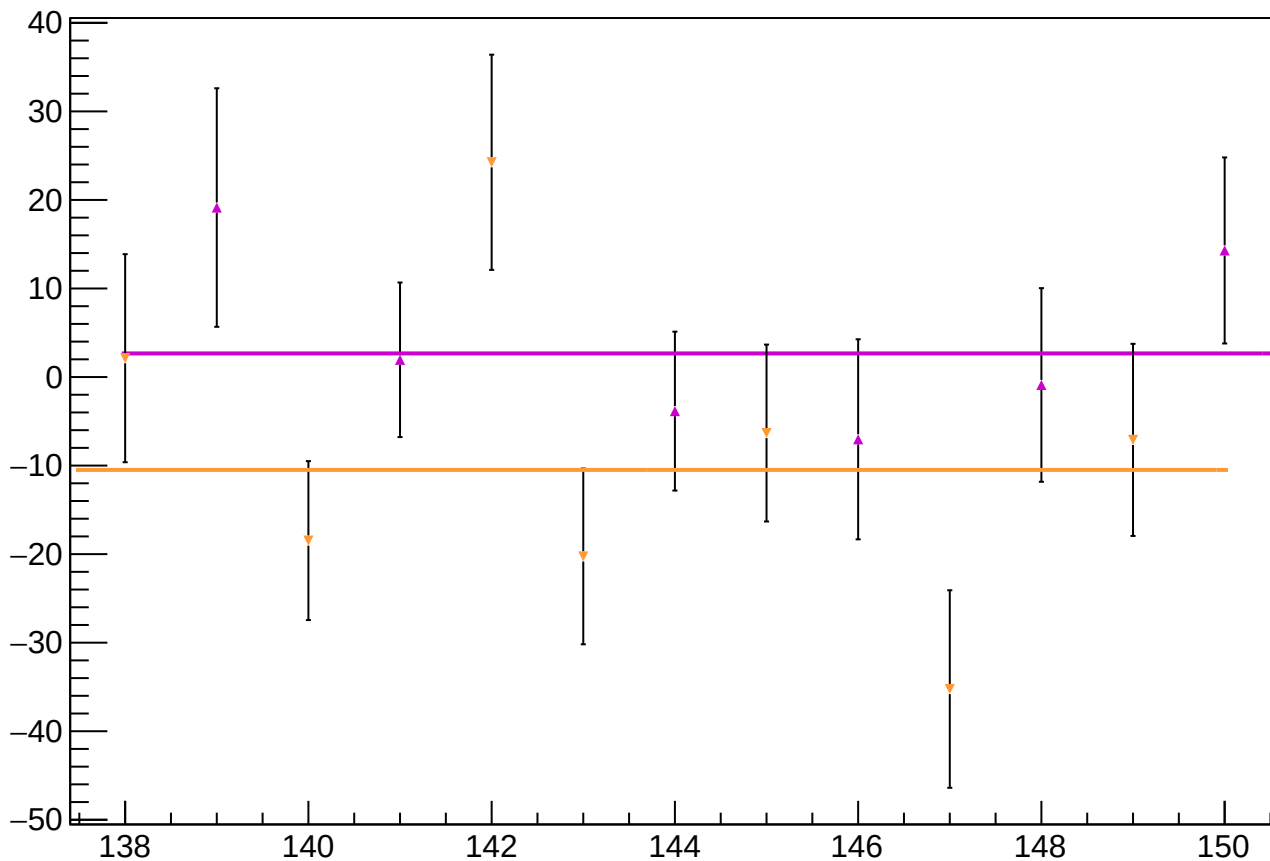
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 6256.328+/-2.024  $\chi^2/\text{NDF}$ :159527.4/5

Out: 6065.103+/-1.941  $\chi^2/\text{NDF}$ :146206.1/6

All: 6156.683+/-1.401  $\chi^2/\text{NDF}$ : 310383.6/12

# diff\_bpm4acX\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.490 $\pm$ 3.980  $\chi^2/\text{NDF}$ :16.3/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.667 $\pm$ 4.214  $\chi^2/\text{NDF}$ :4.1/5

Left: -4.287 $\pm$ 2.893  $\chi^2/\text{NDF}$ : 25.5/12

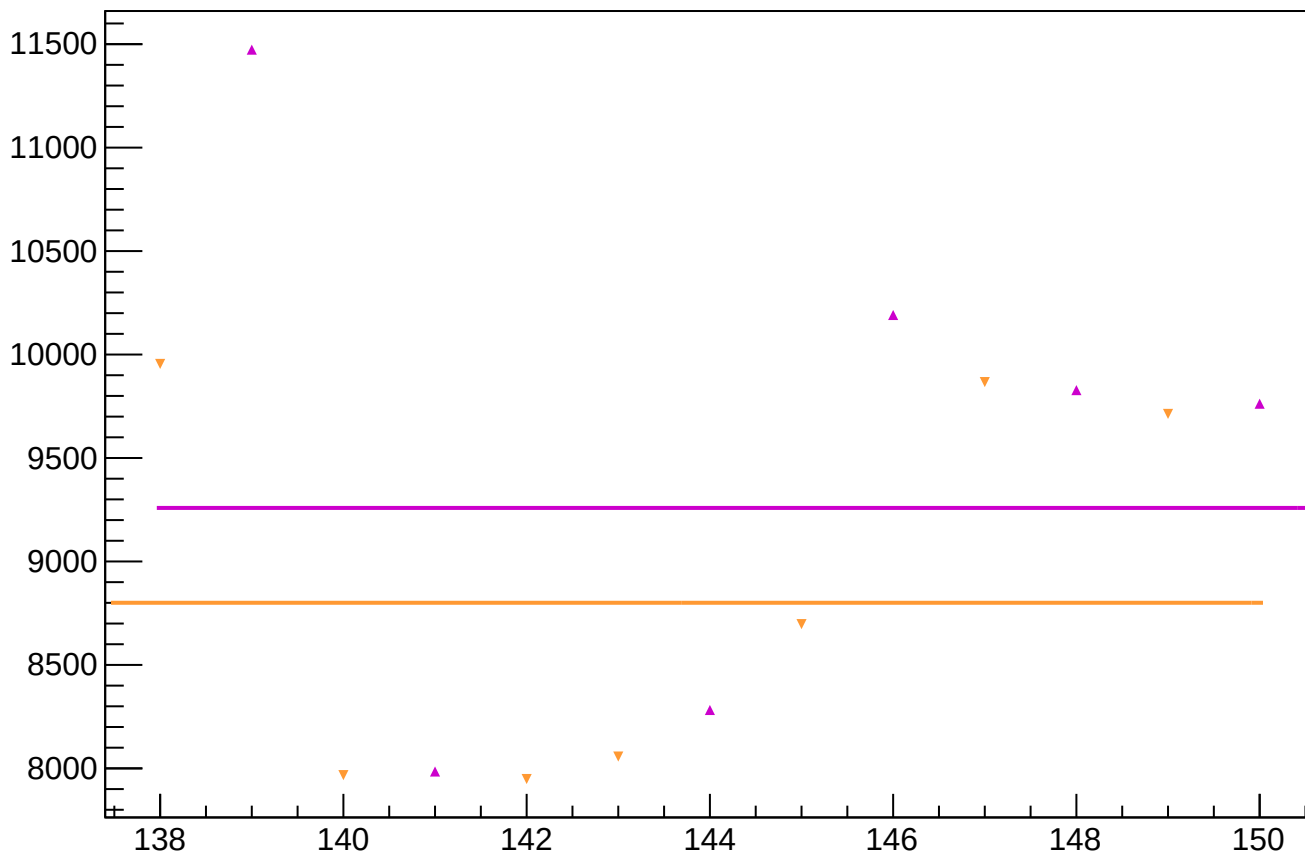
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.667 $\pm$ 4.214  $\chi^2/\text{NDF}$ :4.1/5

Out: -10.490 $\pm$ 3.980  $\chi^2/\text{NDF}$ :16.3/6

All: -4.287 $\pm$ 2.893  $\chi^2/\text{NDF}$ : 25.5/12

# diff\_bpm4acX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8800.380+/-2.814  $\chi^2/\text{NDF}$ :90226.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 9258.730+/-2.980  $\chi^2/\text{NDF}$ :143947.8/5

Left: 9016.444+/-2.046  $\chi^2/\text{NDF}$ : 246679.6/12

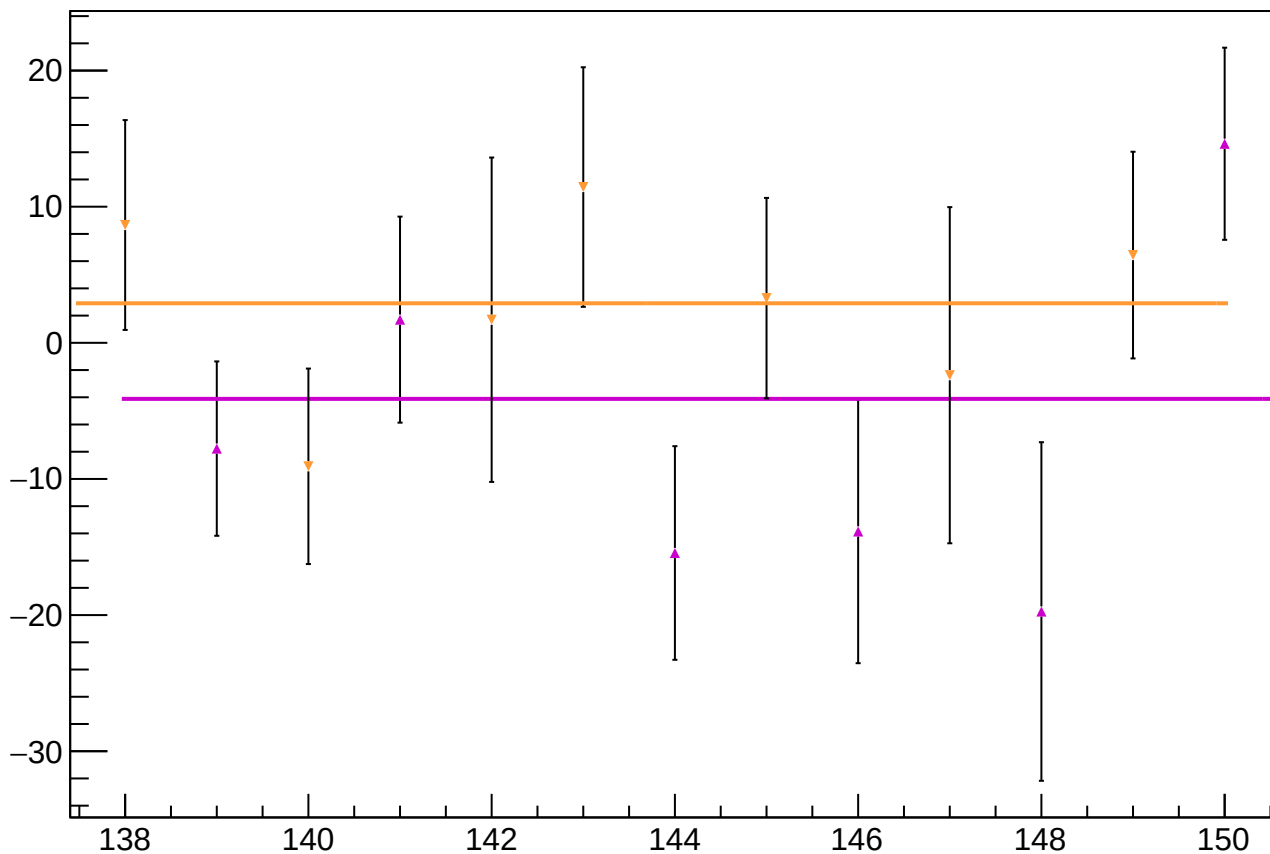
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9258.730+/-2.980  $\chi^2/\text{NDF}$ :143947.8/5

Out: 8800.380+/-2.814  $\chi^2/\text{NDF}$ :90226.2/6

All: 9016.444+/-2.046  $\chi^2/\text{NDF}$ : 246679.6/12

# diff\_bpm4acY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2.905+/-3.185  $\chi^2/\text{NDF}$ :4.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -4.117+/-3.239  $\chi^2/\text{NDF}$ :12.6/5

Left: -0.547+/-2.271  $\chi^2/\text{NDF}$ : 19.7/12

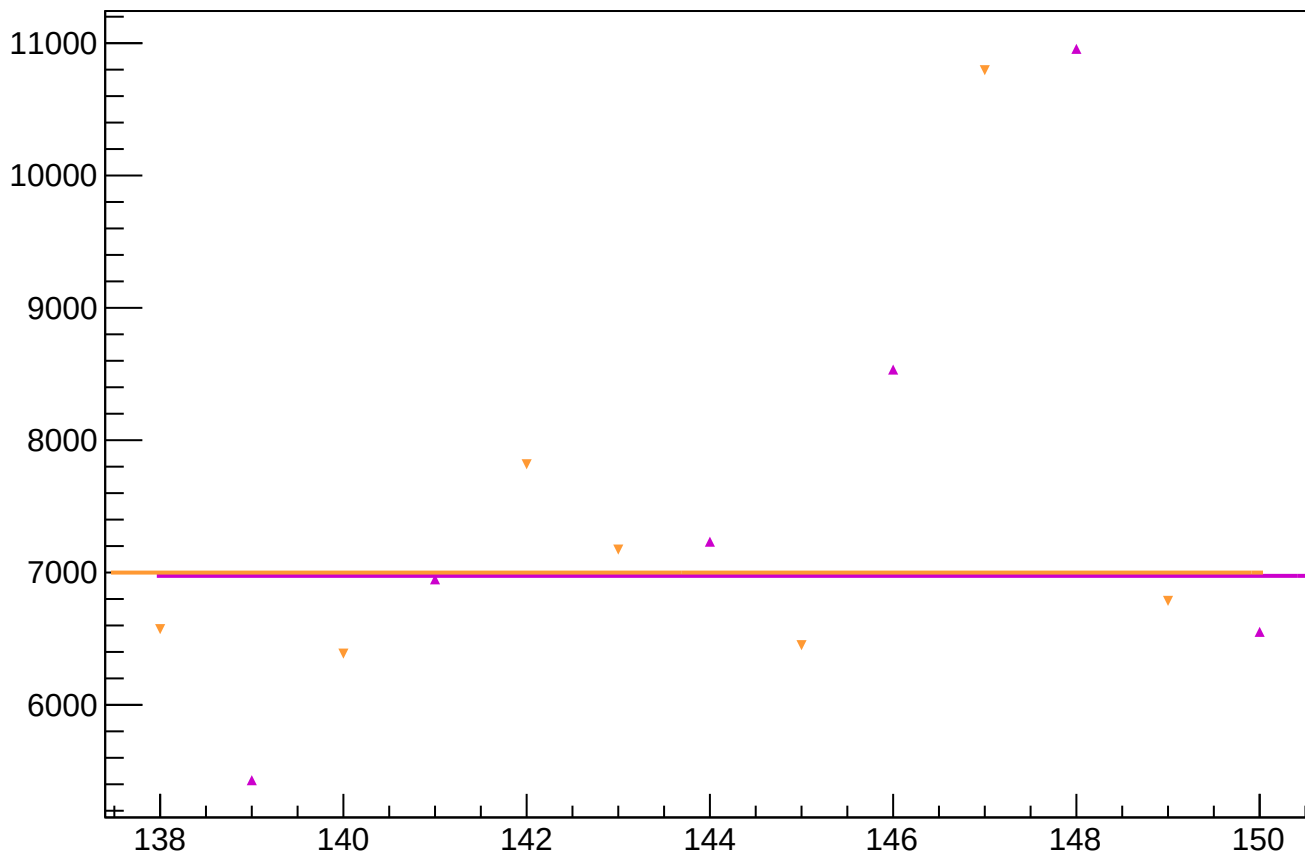
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.117+/-3.239  $\chi^2/\text{NDF}$ :12.6/5

Out: 2.905+/-3.185  $\chi^2/\text{NDF}$ :4.7/6

All: -0.547+/-2.271  $\chi^2/\text{NDF}$ : 19.7/12

# diff\_bpm4acY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6999.655+/-2.252  $\chi^2/\text{NDF}$ :232646.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 6974.891+/-2.291  $\chi^2/\text{NDF}$ :382567.9/5

Left: 6987.481+/-1.606  $\chi^2/\text{NDF}$ : 615273.3/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

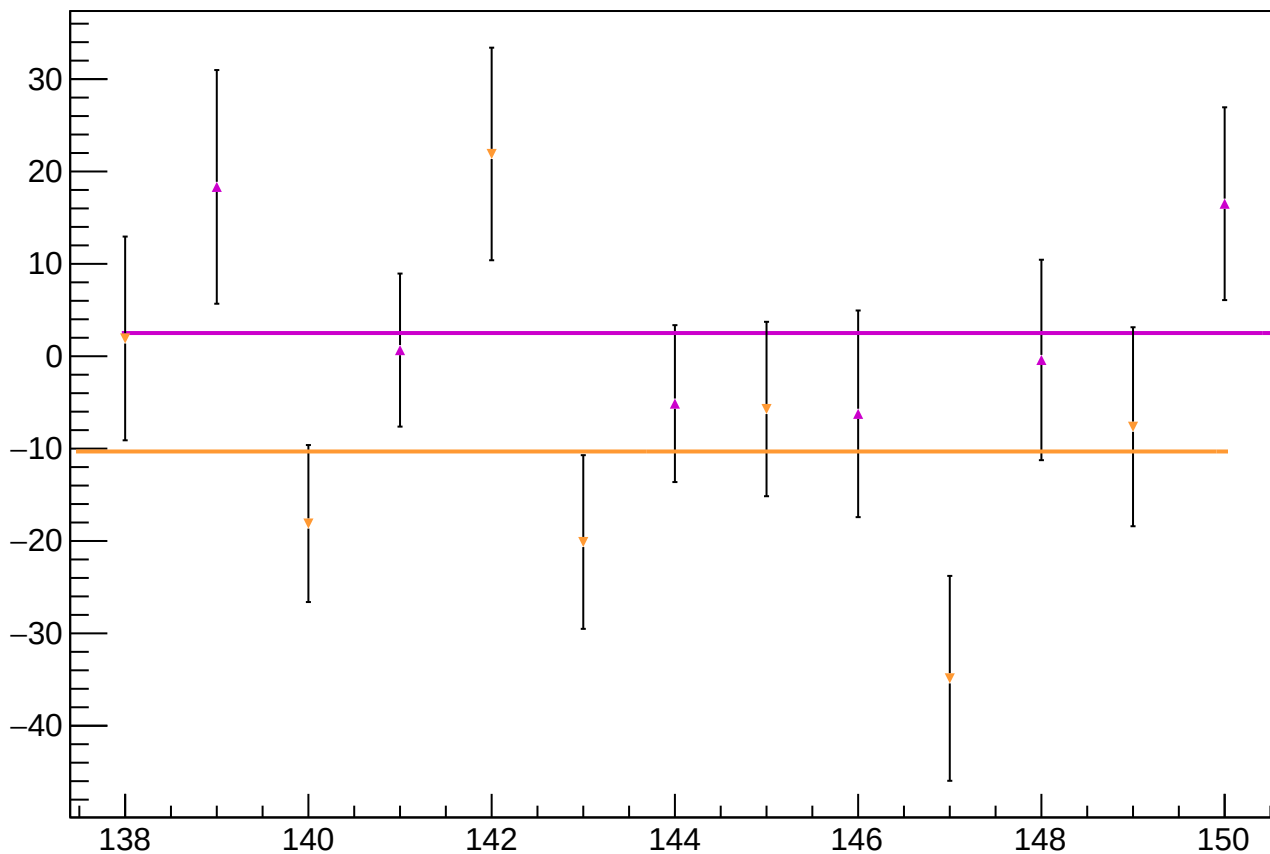
In: 6974.891+/-2.291  $\chi^2/\text{NDF}$ :382567.9/5

Out: 6999.655+/-2.252  $\chi^2/\text{NDF}$ :232646.0/6

All: 6987.481+/-1.606  $\chi^2/\text{NDF}$ : 615273.3/12



# diff\_bpm4ecX\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.311+/-3.809  $\chi^2/\text{NDF}$ :16.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.511+/-4.070  $\chi^2/\text{NDF}$ :4.9/5

Left: -4.324+/-2.781  $\chi^2/\text{NDF}$ : 26.4/12

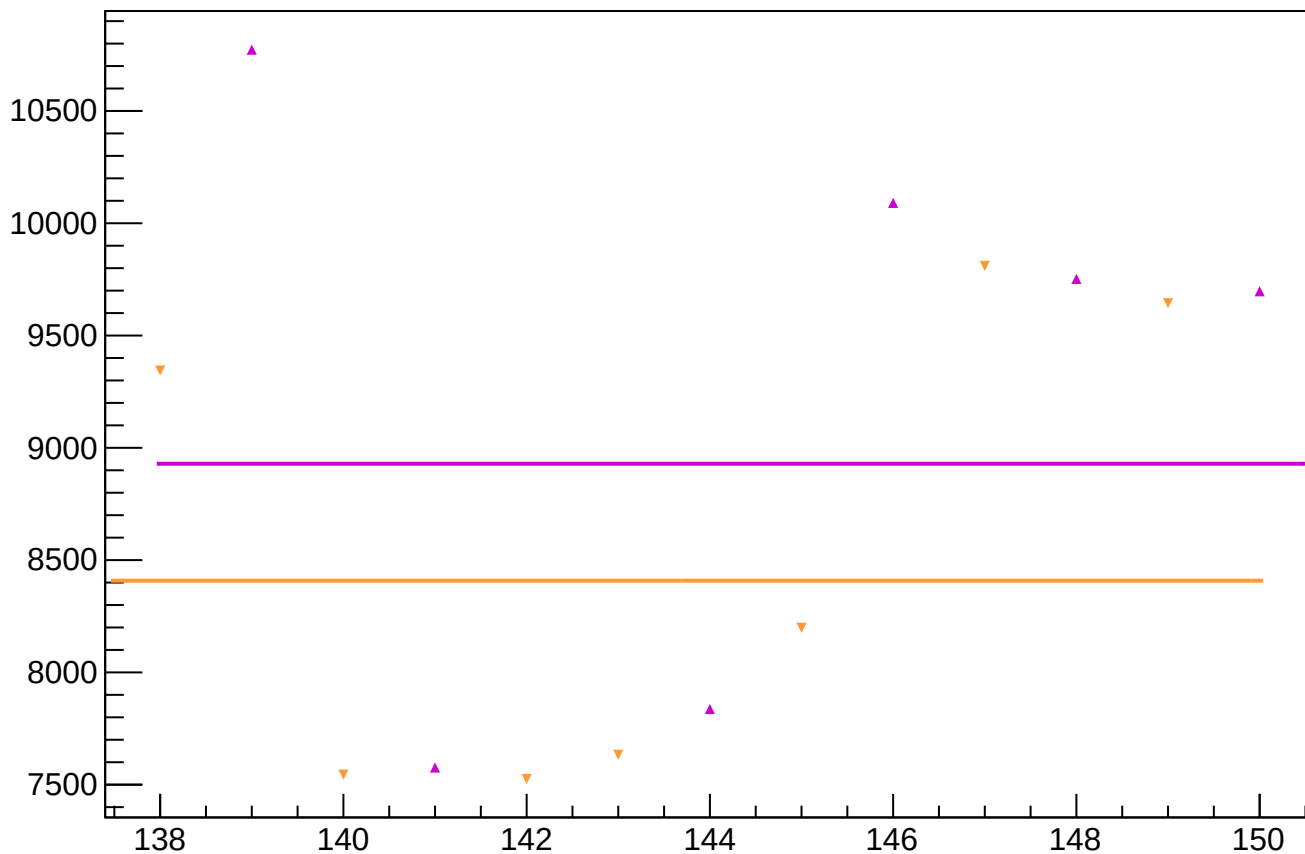
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.511+/-4.070  $\chi^2/\text{NDF}$ :4.9/5

Out: -10.311+/-3.809  $\chi^2/\text{NDF}$ :16.2/6

All: -4.324+/-2.781  $\chi^2/\text{NDF}$ : 26.4/12

# diff\_bpm4ecX\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8408.315+/-2.694  $\chi^2/\text{NDF}$ :119689.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 8929.174+/-2.878  $\chi^2/\text{NDF}$ :172794.9/5

Left: 8651.525+/-1.967  $\chi^2/\text{NDF}$ : 309942.3/12

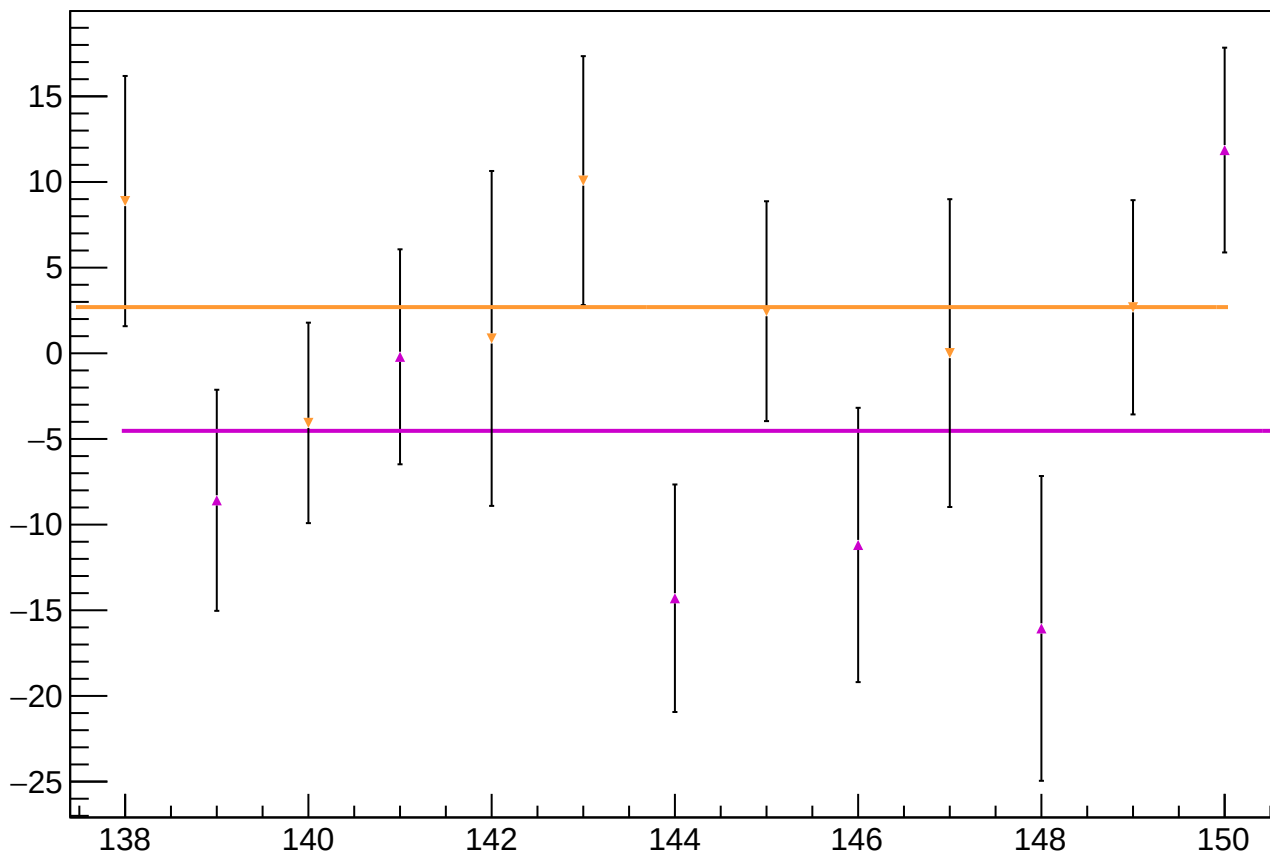
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8929.174+/-2.878  $\chi^2/\text{NDF}$ :172794.9/5

Out: 8408.315+/-2.694  $\chi^2/\text{NDF}$ :119689.1/6

All: 8651.525+/-1.967  $\chi^2/\text{NDF}$ : 309942.3/12

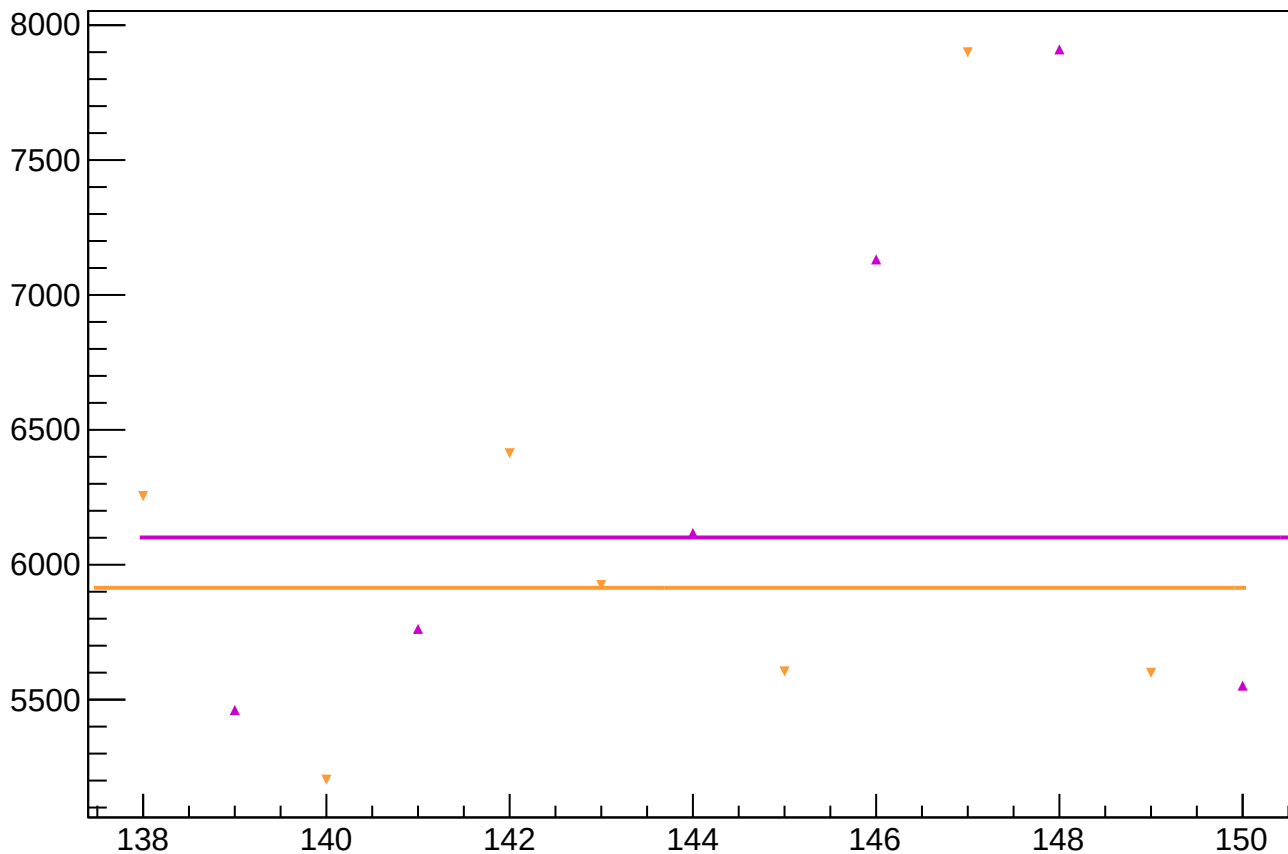
# diff\_bpm4ecY\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 2.697+/-2.676  $\chi^2/\text{NDF}$ : 3.2/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: -4.527+/-2.792  $\chi^2/\text{NDF}$ : 12.9/5

Left: -0.763+/-1.932  $\chi^2/\text{NDF}$ : 19.6/12  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: -4.527+/-2.792  $\chi^2/\text{NDF}$ : 12.9/5  
Out: 2.697+/-2.676  $\chi^2/\text{NDF}$ : 3.2/6  
All: -0.763+/-1.932  $\chi^2/\text{NDF}$ : 19.6/12

# diff\_bpm4ecY\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5914.553+/-1.892  $\chi^2/\text{NDF}$ :146453.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 6101.016+/-1.974  $\chi^2/\text{NDF}$ :158261.5/5

Left: 6003.858+/-1.366  $\chi^2/\text{NDF}$ : 309364.9/12

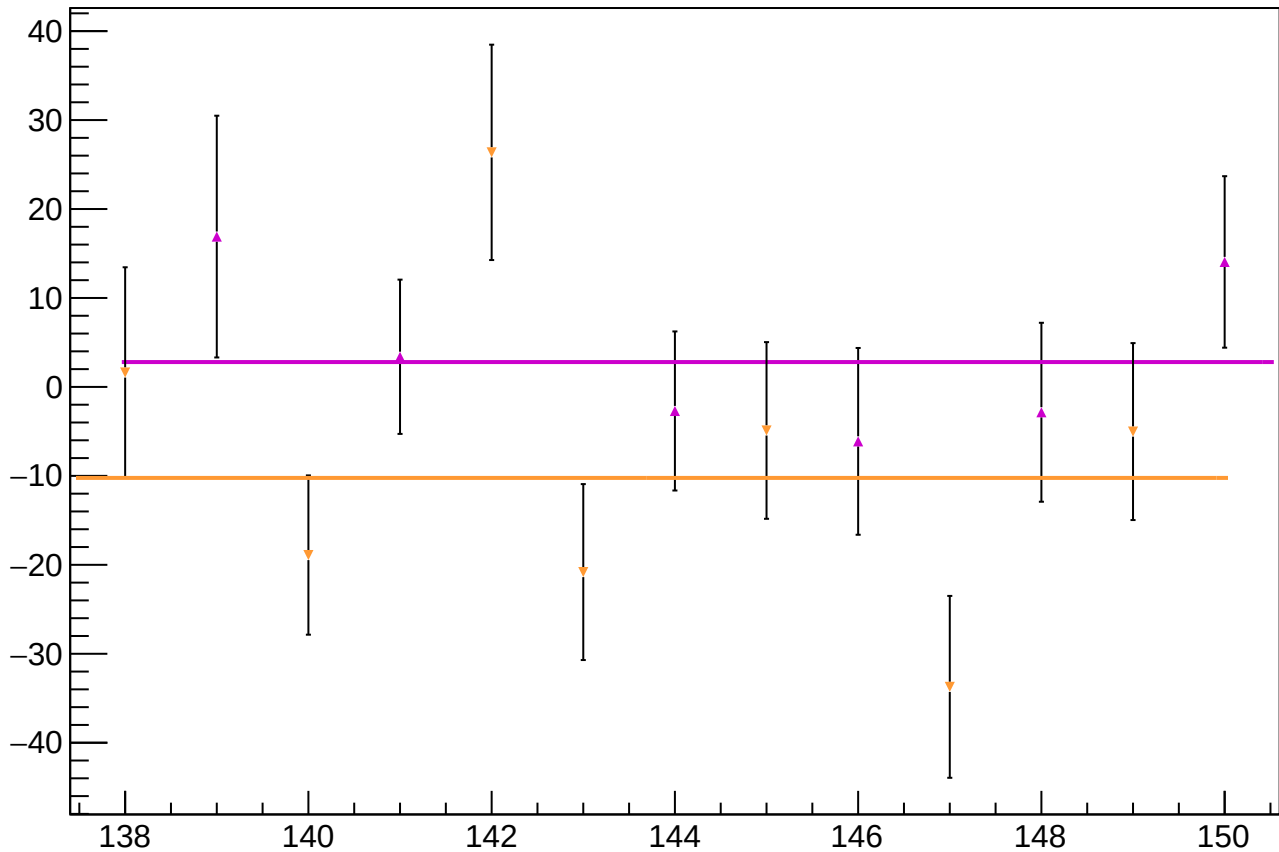
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 6101.016+/-1.974  $\chi^2/\text{NDF}$ :158261.5/5

Out: 5914.553+/-1.892  $\chi^2/\text{NDF}$ :146453.8/6

All: 6003.858+/-1.366  $\chi^2/\text{NDF}$ : 309364.9/12

# diff\_bpm1X\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -10.229 $\pm$ 3.878  $\chi^2$ /NDF:18.1/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.795 $\pm$ 4.051  $\chi^2$ /NDF:3.9/5

Left: -4.001 $\pm$ 2.801  $\chi^2$ /NDF: 27.3/12

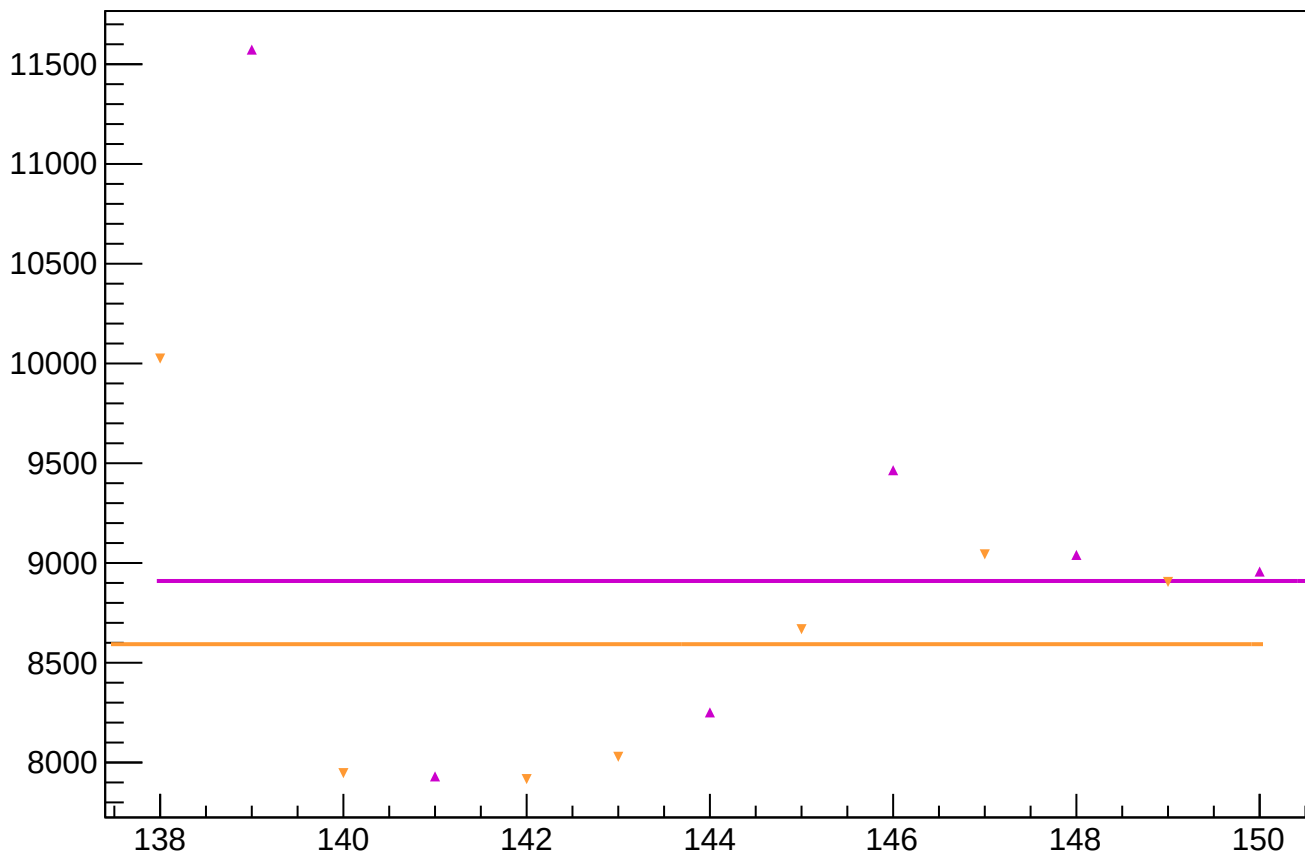
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 2.795 $\pm$ 4.051  $\chi^2$ /NDF:3.9/5

Out: -10.229 $\pm$ 3.878  $\chi^2$ /NDF:18.1/6

All: -4.001 $\pm$ 2.801  $\chi^2$ /NDF: 27.3/12

# diff\_bpm1X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8593.077+/-2.742  $\chi^2/\text{NDF}$ : 58426.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 8909.817+/-2.864  $\chi^2/\text{NDF}$ : 119177.0/5

Left: 8744.557+/-1.981  $\chi^2/\text{NDF}$ : 183982.9/12

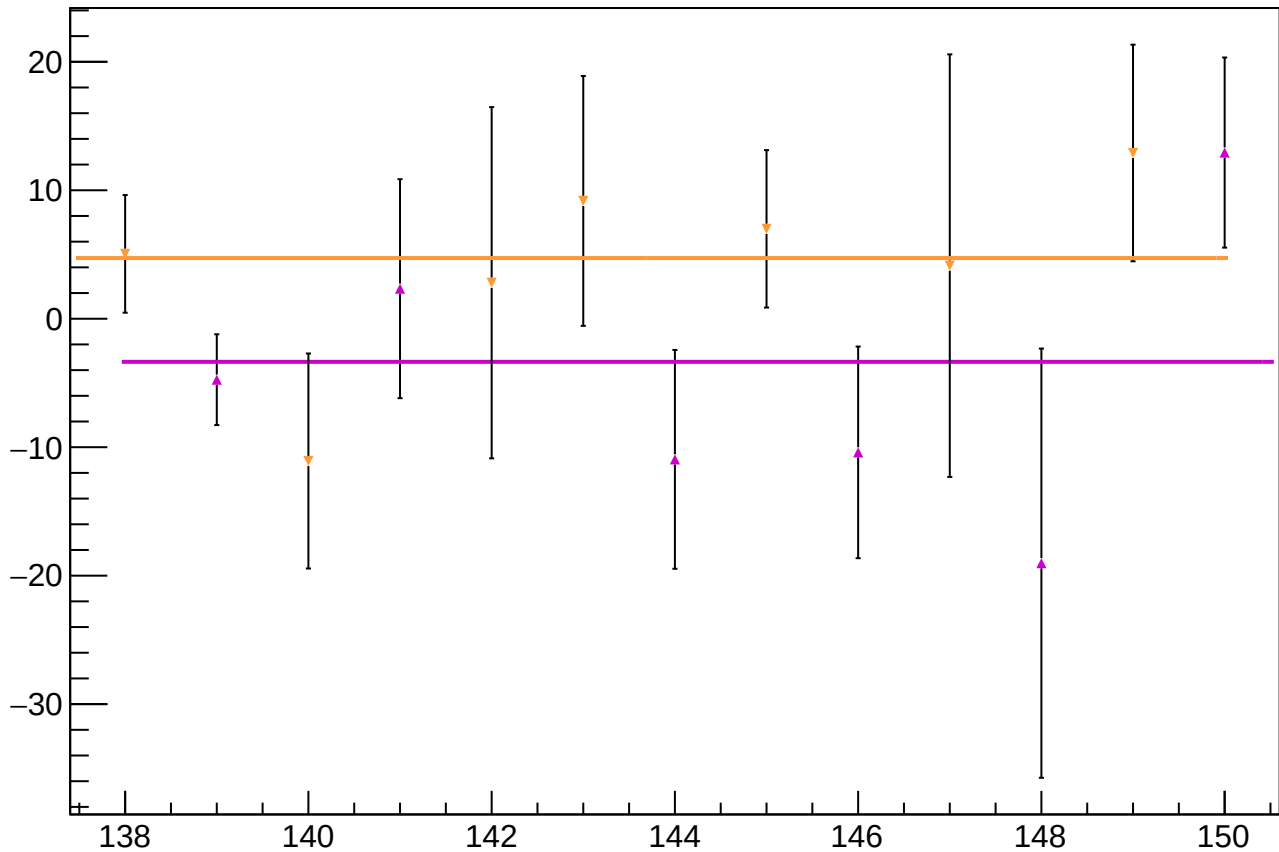
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8909.817+/-2.864  $\chi^2/\text{NDF}$ : 119177.0/5

Out: 8593.077+/-2.742  $\chi^2/\text{NDF}$ : 58426.4/6

All: 8744.557+/-1.981  $\chi^2/\text{NDF}$ : 183982.9/12

# diff\_bpm1Y\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4.725+/-2.860  $\chi^2/\text{NDF}$ : 4.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -3.354+/-2.634  $\chi^2/\text{NDF}$ : 7.9/5

Left: 0.353+/-1.937  $\chi^2/\text{NDF}$ : 17.0/12

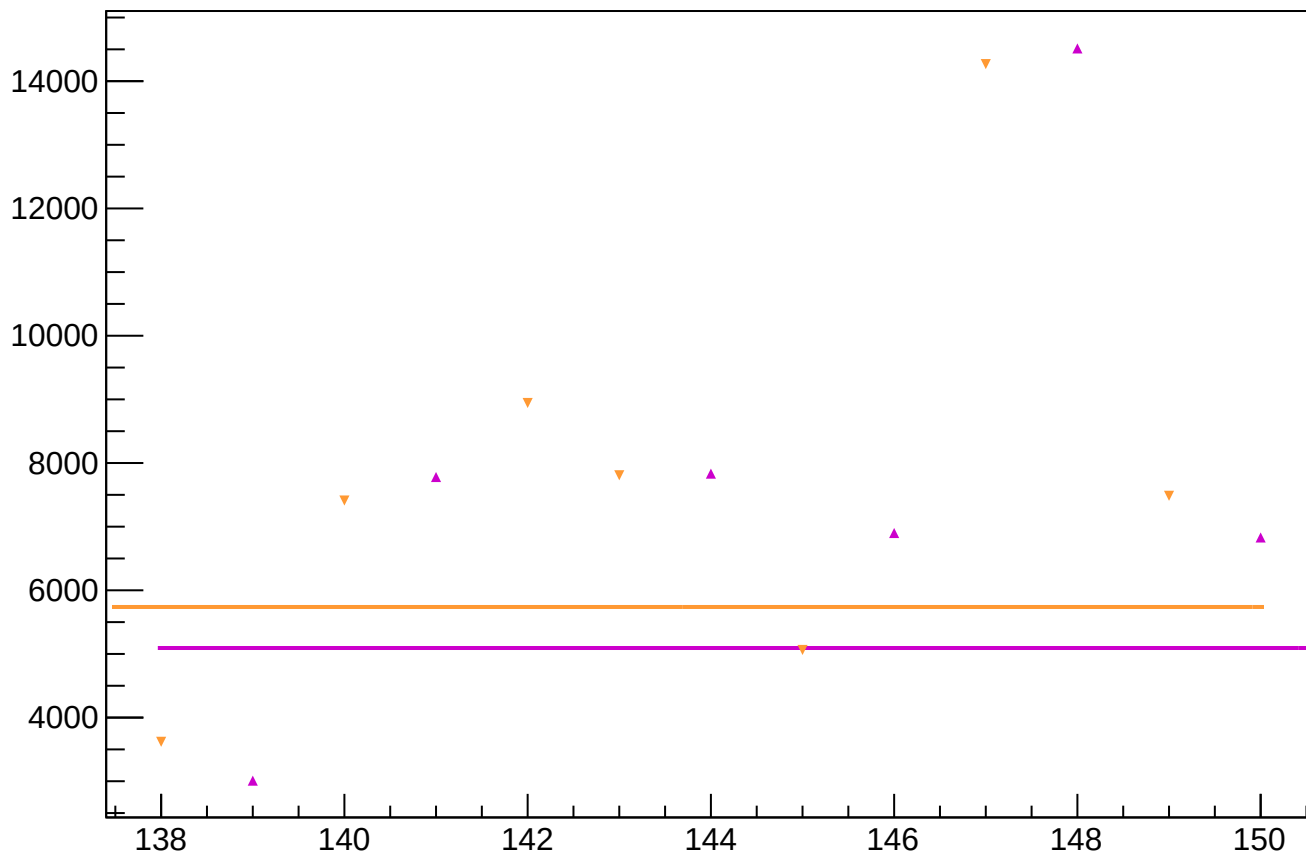
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3.354+/-2.634  $\chi^2/\text{NDF}$ : 7.9/5

Out: 4.725+/-2.860  $\chi^2/\text{NDF}$ : 4.9/6

All: 0.353+/-1.937  $\chi^2/\text{NDF}$ : 17.0/12

# diff\_bpm1Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5737.924+/-2.022  $\chi^2/\text{NDF}$ :1356379.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5093.341+/-1.862  $\chi^2/\text{NDF}$ :1943540.7/5

Left: 5389.113+/-1.370  $\chi^2/\text{NDF}$ : 3354899.2/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

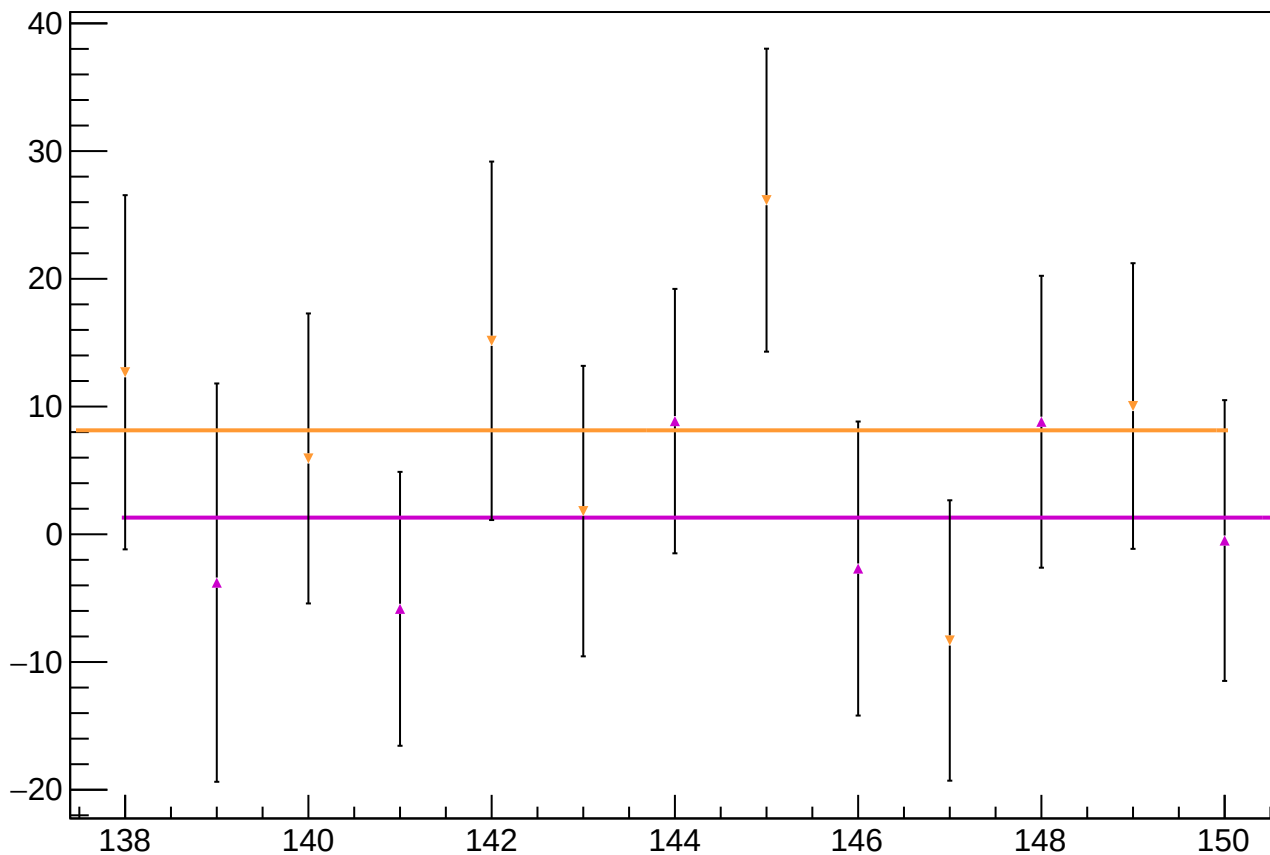
In: 5093.341+/-1.862  $\chi^2/\text{NDF}$ :1943540.7/5

Out: 5737.924+/-2.022  $\chi^2/\text{NDF}$ :1356379.4/6

All: 5389.113+/-1.370  $\chi^2/\text{NDF}$ : 3354899.2/12



# diff\_bpm11X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8.139+/-4.509  $\chi^2/\text{NDF}$ : 5.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1.306+/-4.681  $\chi^2/\text{NDF}$ : 1.7/5

Left: 4.850+/-3.248  $\chi^2/\text{NDF}$ : 8.1/12

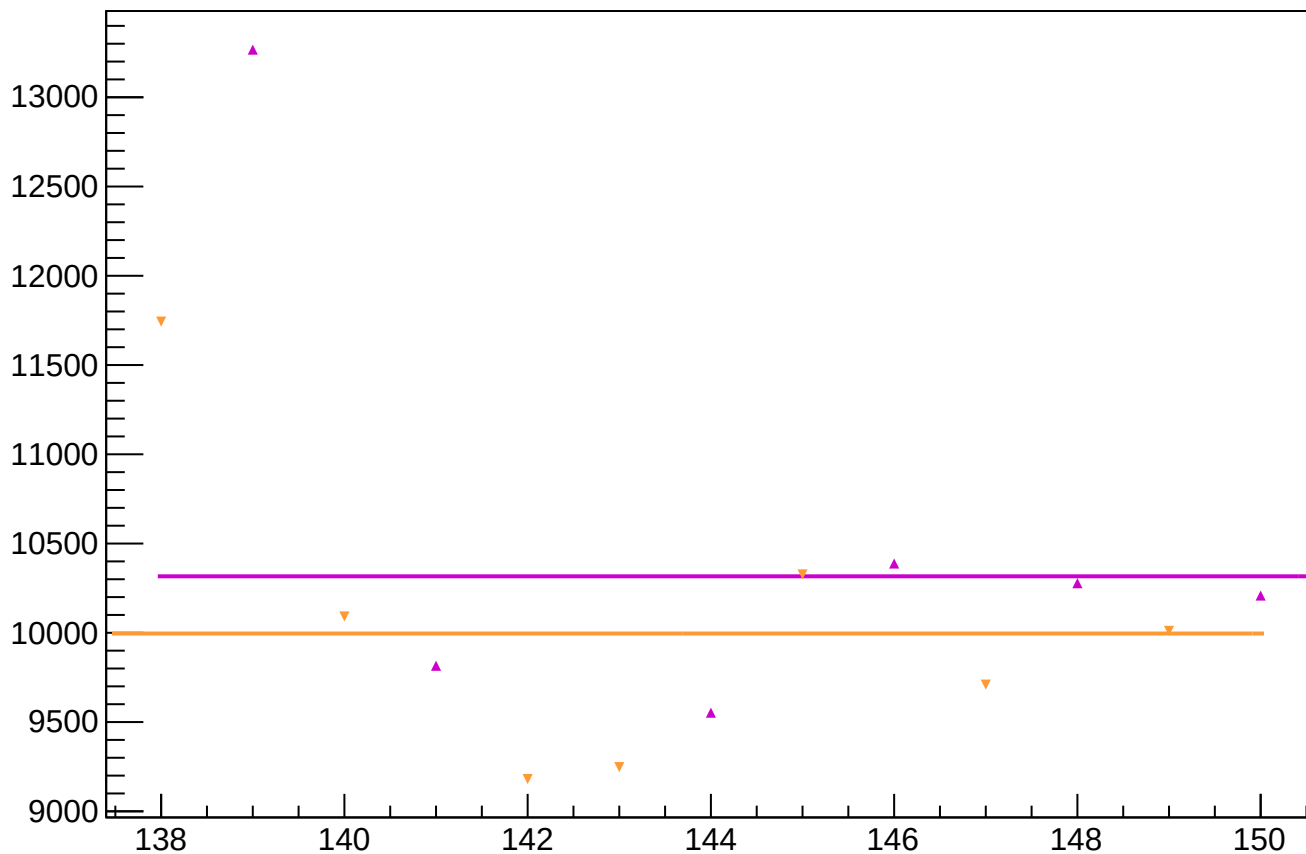
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1.306+/-4.681  $\chi^2/\text{NDF}$ : 1.7/5

Out: 8.139+/-4.509  $\chi^2/\text{NDF}$ : 5.3/6

All: 4.850+/-3.248  $\chi^2/\text{NDF}$ : 8.1/12

# diff\_bpm11X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 9995.956+/-3.188  $\chi^2/\text{NDF}$ : 50241.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 10316.468+/-3.310  $\chi^2/\text{NDF}$ : 87161.7/5

Left: 10150.211+/-2.296  $\chi^2/\text{NDF}$ : 142266.6/12

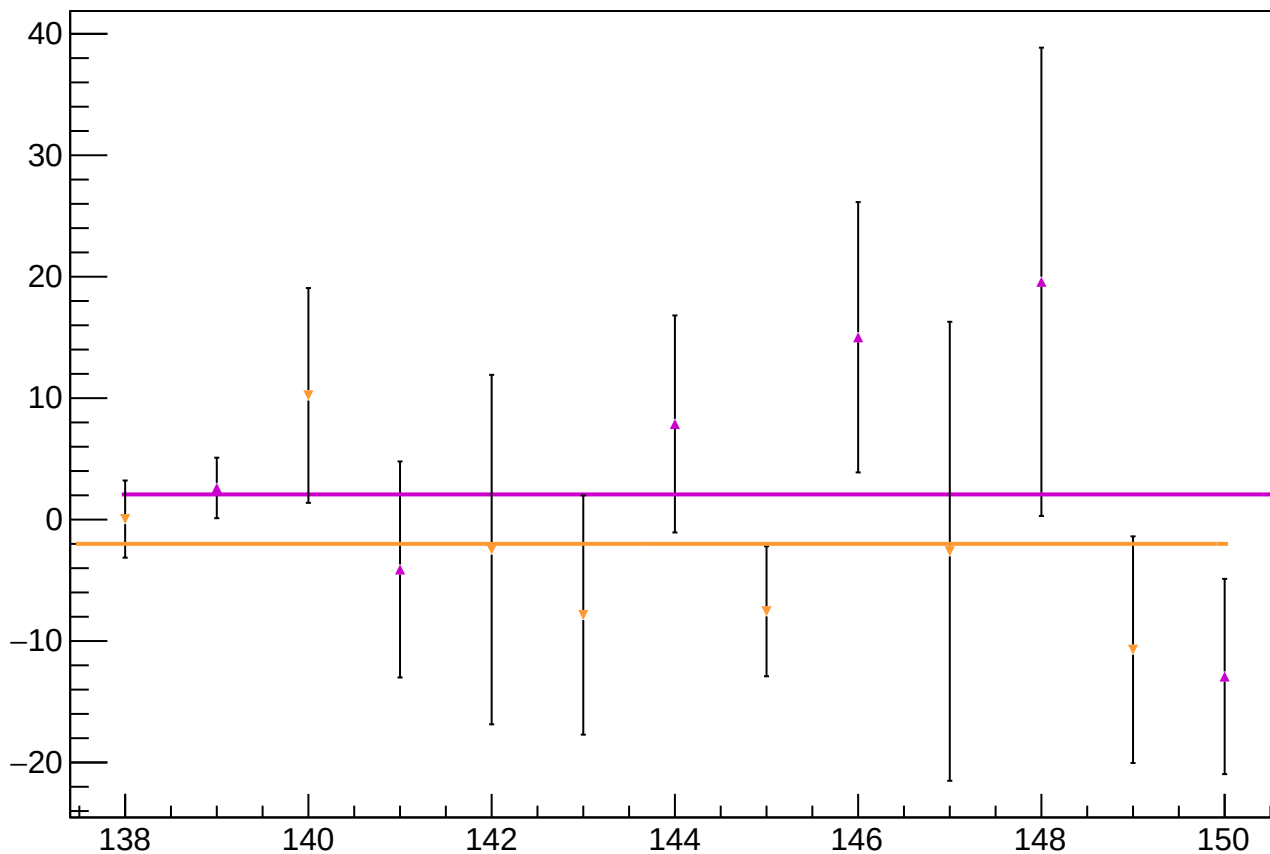
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 10316.468+/-3.310  $\chi^2/\text{NDF}$ : 87161.7/5

Out: 9995.956+/-3.188  $\chi^2/\text{NDF}$ : 50241.7/6

All: 10150.211+/-2.296  $\chi^2/\text{NDF}$ : 142266.6/12

# diff\_bpm11Y\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.997+/-2.383  $\chi^2/\text{NDF}$ : 4.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.073+/-2.169  $\chi^2/\text{NDF}$ : 6.6/5

Left: 0.229+/-1.604  $\chi^2/\text{NDF}$ : 12.8/12

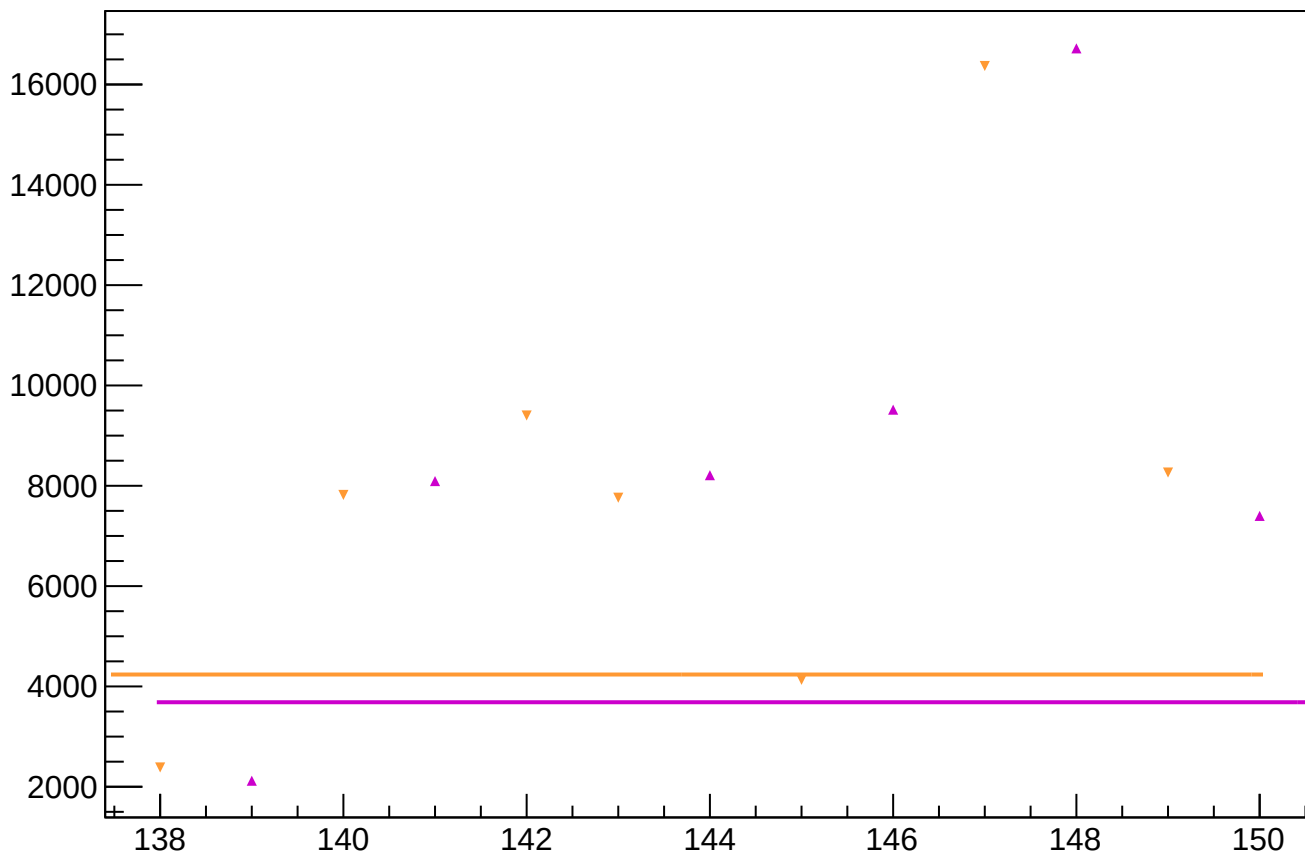
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.073+/-2.169  $\chi^2/\text{NDF}$ : 6.6/5

Out: -1.997+/-2.383  $\chi^2/\text{NDF}$ : 4.6/6

All: 0.229+/-1.604  $\chi^2/\text{NDF}$ : 12.8/12

# diff\_bpm11Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4237.746+/-1.685  $\chi^2/\text{NDF}$ :2718637.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 3684.956+/-1.534  $\chi^2/\text{NDF}$ :3684416.8/5

Left: 3935.443+/-1.134  $\chi^2/\text{NDF}$ : 6461921.7/12

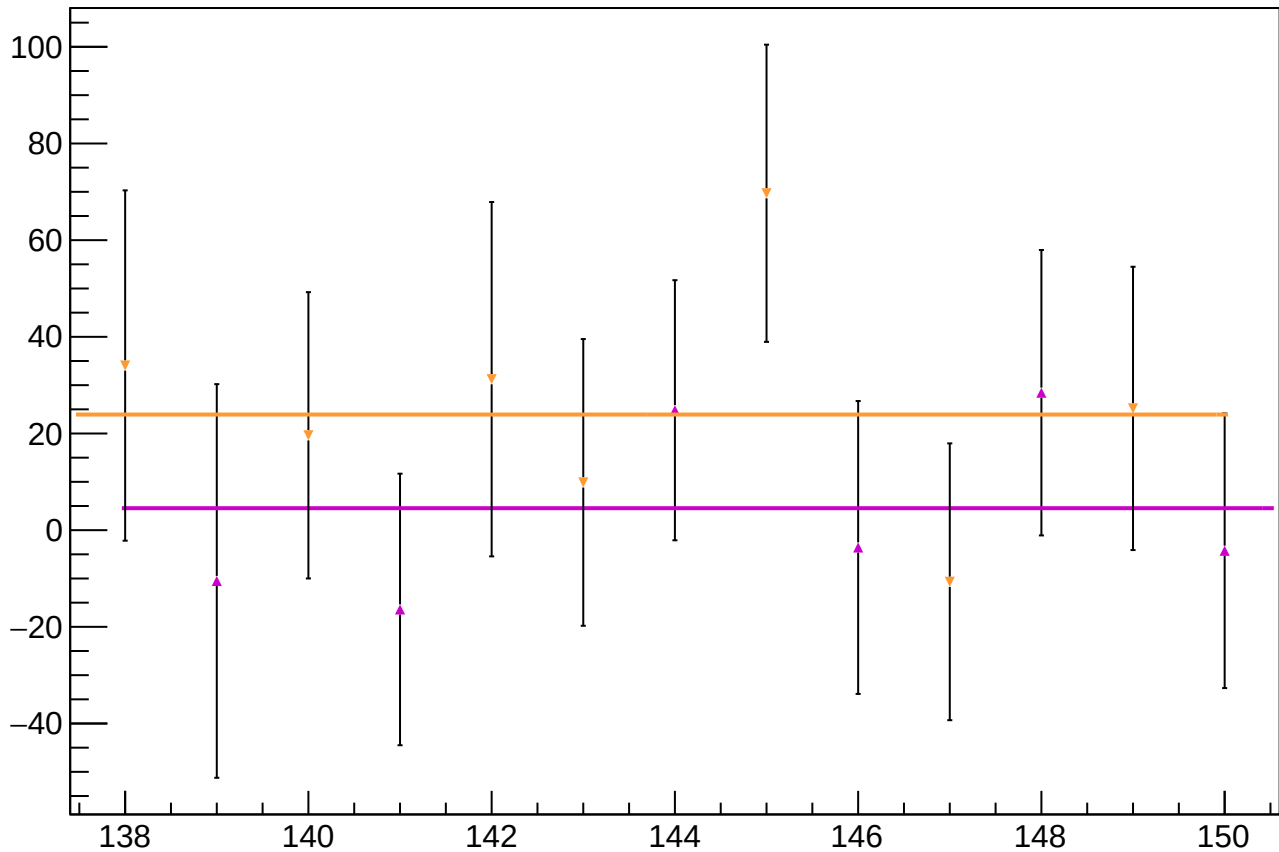
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3684.956+/-1.534  $\chi^2/\text{NDF}$ :3684416.8/5

Out: 4237.746+/-1.685  $\chi^2/\text{NDF}$ :2718637.1/6

All: 3935.443+/-1.134  $\chi^2/\text{NDF}$ : 6461921.7/12

# diff\_bpm12X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 23.923+/-11.765  $\chi^2/\text{NDF}$ : 4.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4.546+/-12.193  $\chi^2/\text{NDF}$ : 2.1/5

Left: 14.580+/-8.466  $\chi^2/\text{NDF}$ : 7.4/12

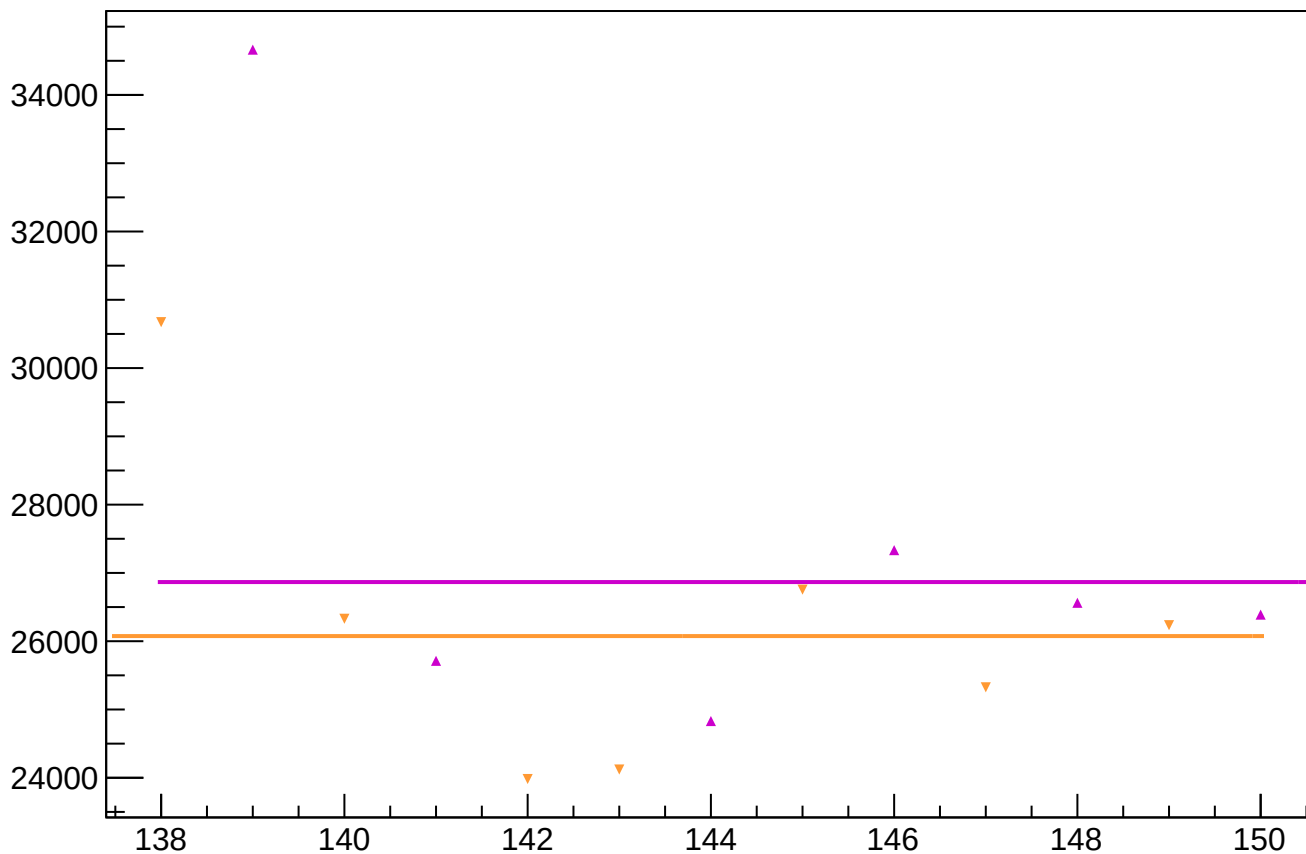
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 4.546+/-12.193  $\chi^2/\text{NDF}$ : 2.1/5

Out: 23.923+/-11.765  $\chi^2/\text{NDF}$ : 4.0/6

All: 14.580+/-8.466  $\chi^2/\text{NDF}$ : 7.4/12

# diff\_bpm12X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 26075.190+/-8.319  $\chi^2/\text{NDF}$ :49948.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 26866.250+/-8.622  $\chi^2/\text{NDF}$ :89386.2/5

Left: 26456.607+/-5.987  $\chi^2/\text{NDF}$ : 143694.2/12

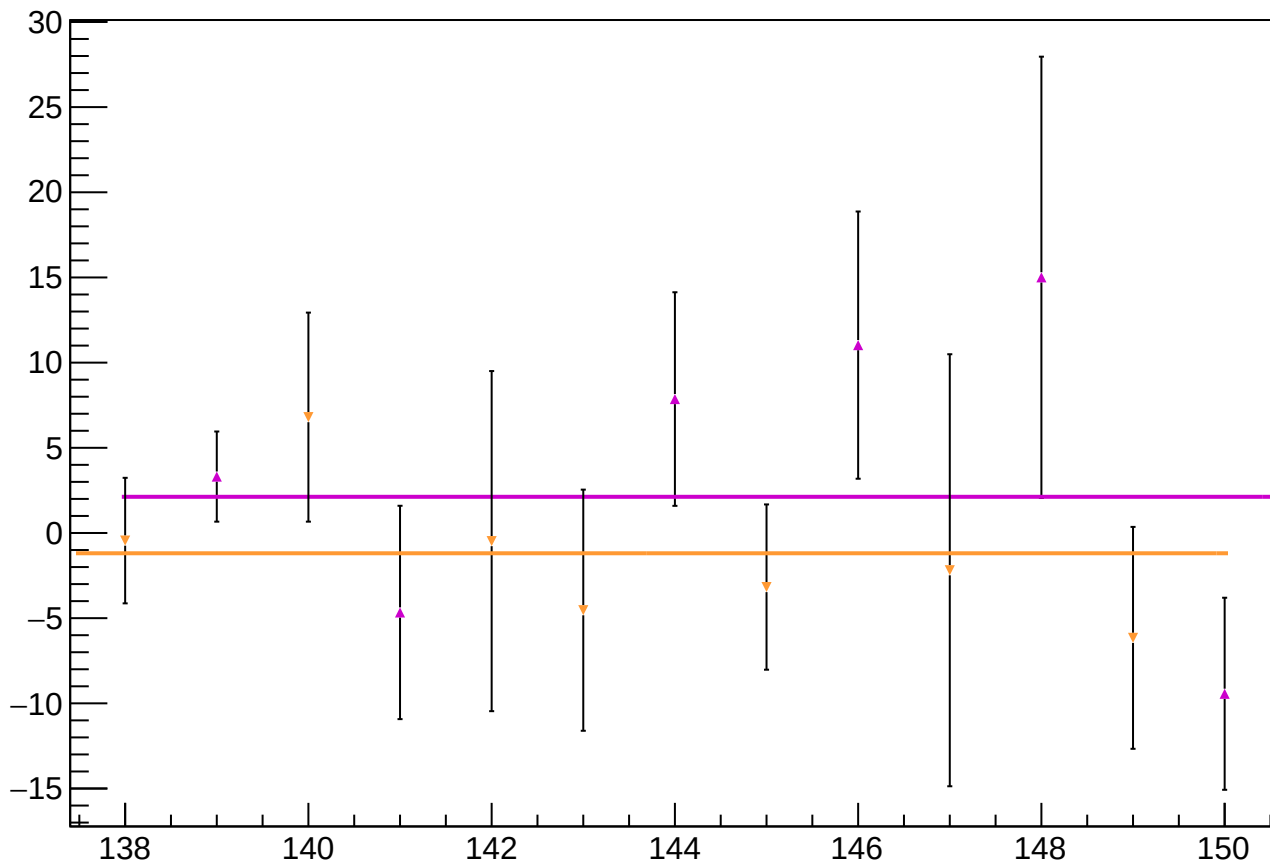
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 26866.250+/-8.622  $\chi^2/\text{NDF}$ :89386.2/5

Out: 26075.190+/-8.319  $\chi^2/\text{NDF}$ :49948.4/6

All: 26456.607+/-5.987  $\chi^2/\text{NDF}$ : 143694.2/12

# diff\_bpm12Y\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.191+/-2.222  $\chi^2/\text{NDF}$ : 2.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.124+/-2.010  $\chi^2/\text{NDF}$ : 8.7/5

Left: 0.632+/-1.491  $\chi^2/\text{NDF}$ : 12.6/12

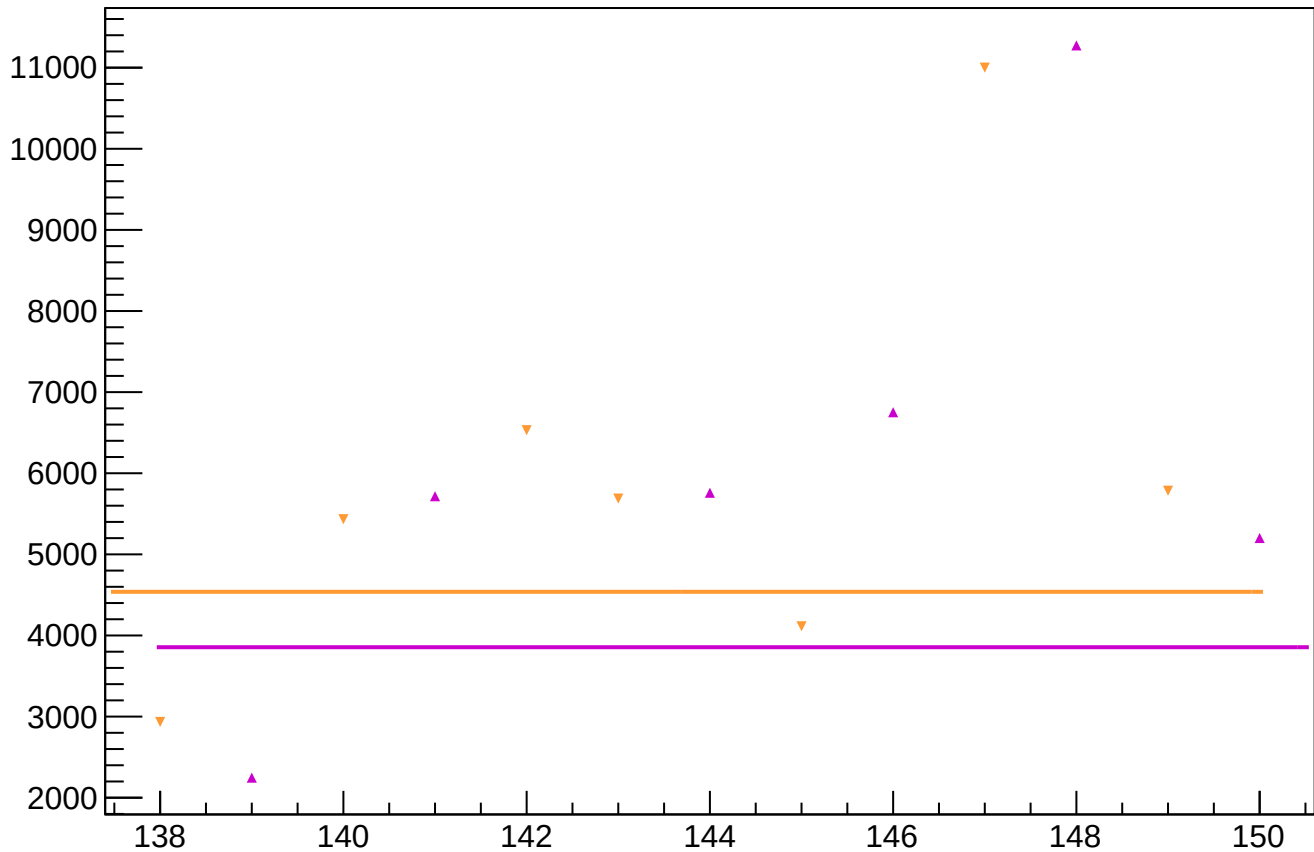
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.124+/-2.010  $\chi^2/\text{NDF}$ : 8.7/5

Out: -1.191+/-2.222  $\chi^2/\text{NDF}$ : 2.7/6

All: 0.632+/-1.491  $\chi^2/\text{NDF}$ : 12.6/12

# diff\_bpm12Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4538.478+/-1.571  $\chi^2/\text{NDF}$ :1162165.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 3855.224+/-1.422  $\chi^2/\text{NDF}$ :2142704.4/5

Left: 4162.743+/-1.054  $\chi^2/\text{NDF}$ : 3408845.5/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

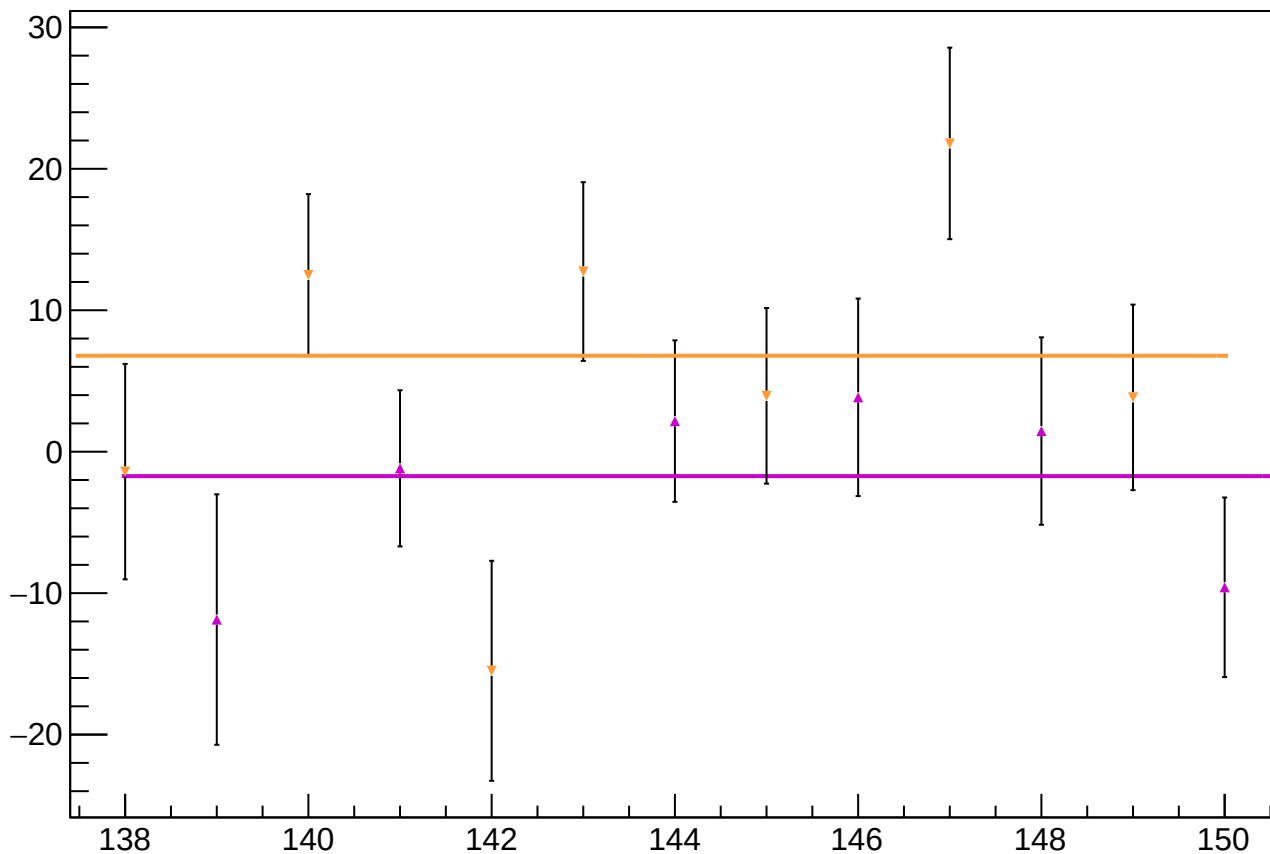
In: 3855.224+/-1.422  $\chi^2/\text{NDF}$ :2142704.4/5

Out: 4538.478+/-1.571  $\chi^2/\text{NDF}$ :1162165.1/6

All: 4162.743+/-1.054  $\chi^2/\text{NDF}$ : 3408845.5/12



# diff\_bpm16X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6.784+/-2.496  $\chi^2/\text{NDF}$ :16.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1.727+/-2.632  $\chi^2/\text{NDF}$ :4.2/5

Left: 2.754+/-1.811  $\chi^2/\text{NDF}$ : 26.3/12

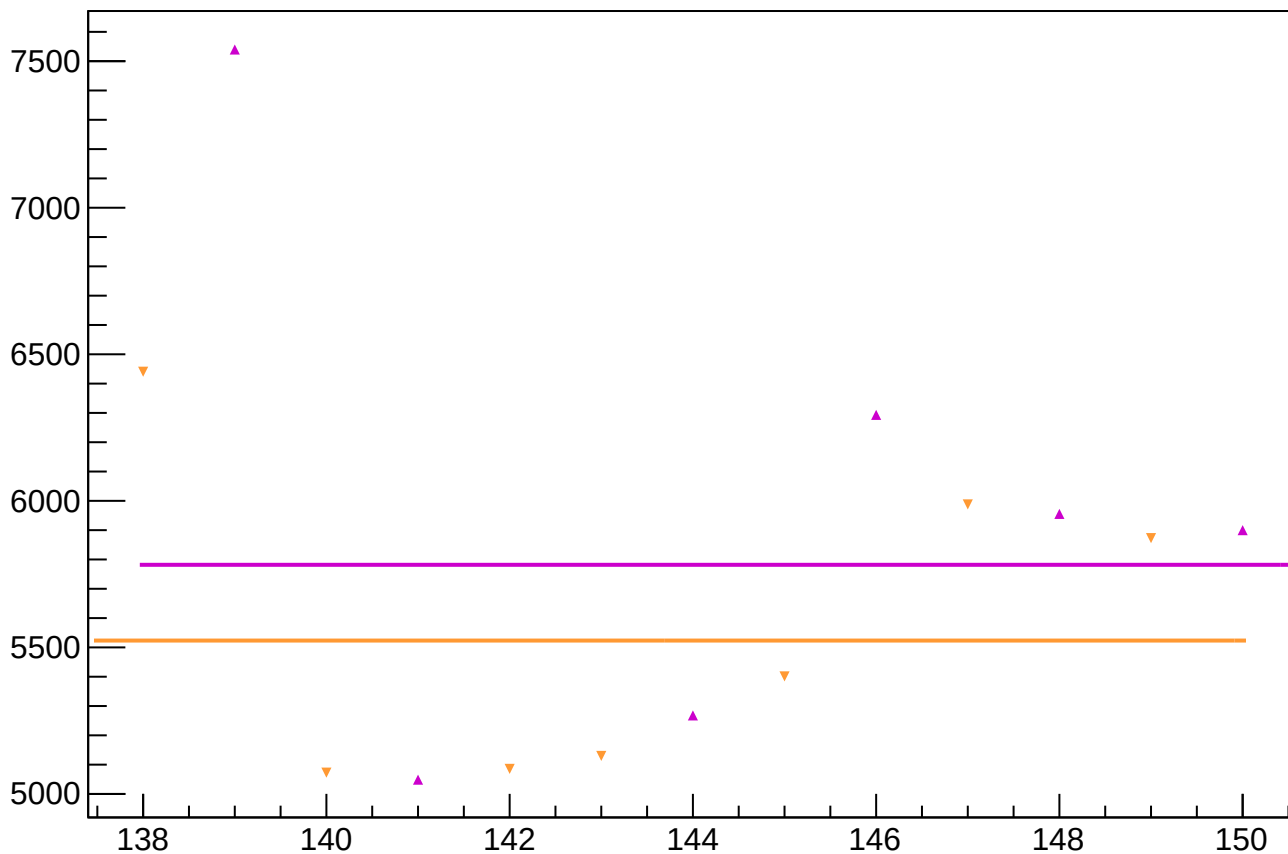
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.727+/-2.632  $\chi^2/\text{NDF}$ :4.2/5

Out: 6.784+/-2.496  $\chi^2/\text{NDF}$ :16.6/6

All: 2.754+/-1.811  $\chi^2/\text{NDF}$ : 26.3/12

# diff\_bpm16X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5523.367+/-1.765  $\chi^2/\text{NDF}$ : 71420.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5781.777+/-1.861  $\chi^2/\text{NDF}$ : 143126.2/5

Left: 5645.738+/-1.281  $\chi^2/\text{NDF}$ : 224695.9/12

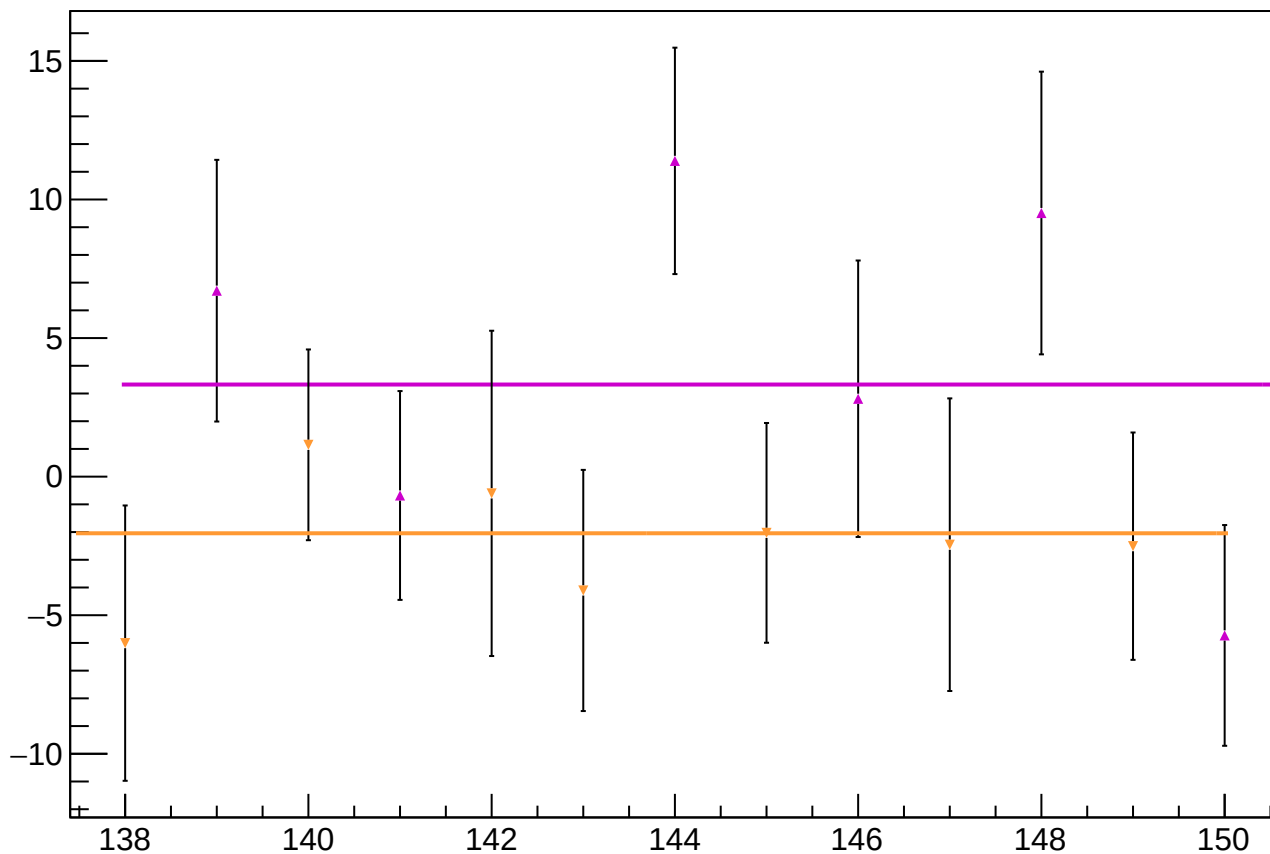
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5781.777+/-1.861  $\chi^2/\text{NDF}$ : 143126.2/5

Out: 5523.367+/-1.765  $\chi^2/\text{NDF}$ : 71420.3/6

All: 5645.738+/-1.281  $\chi^2/\text{NDF}$ : 224695.9/12

# diff\_bpm16Y\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -2.043 $\pm$ 1.653  $\chi^2$ /NDF:1.8/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 3.324 $\pm$ 1.776  $\chi^2$ /NDF:12.2/5

Left: 0.448 $\pm$ 1.210  $\chi^2$ /NDF: 18.9/12

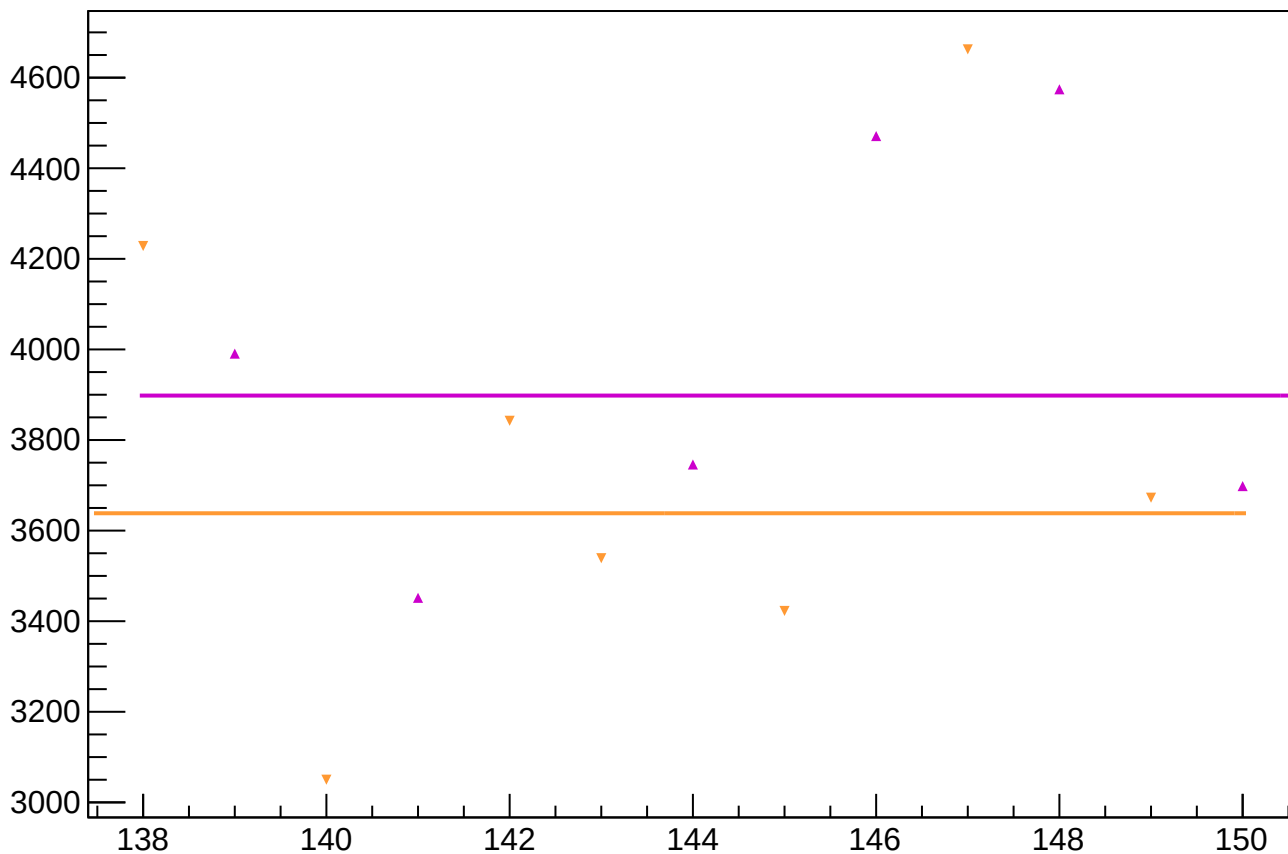
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 3.324 $\pm$ 1.776  $\chi^2$ /NDF:12.2/5

Out: -2.043 $\pm$ 1.653  $\chi^2$ /NDF:1.8/6

All: 0.448 $\pm$ 1.210  $\chi^2$ /NDF: 18.9/12

# diff\_bpm16Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3638.316+/-1.169  $\chi^2/\text{NDF}$ :171449.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 3898.134+/-1.256  $\chi^2/\text{NDF}$ :98203.3/5

Left: 3758.930+/-0.856  $\chi^2/\text{NDF}$ : 292578.0/12

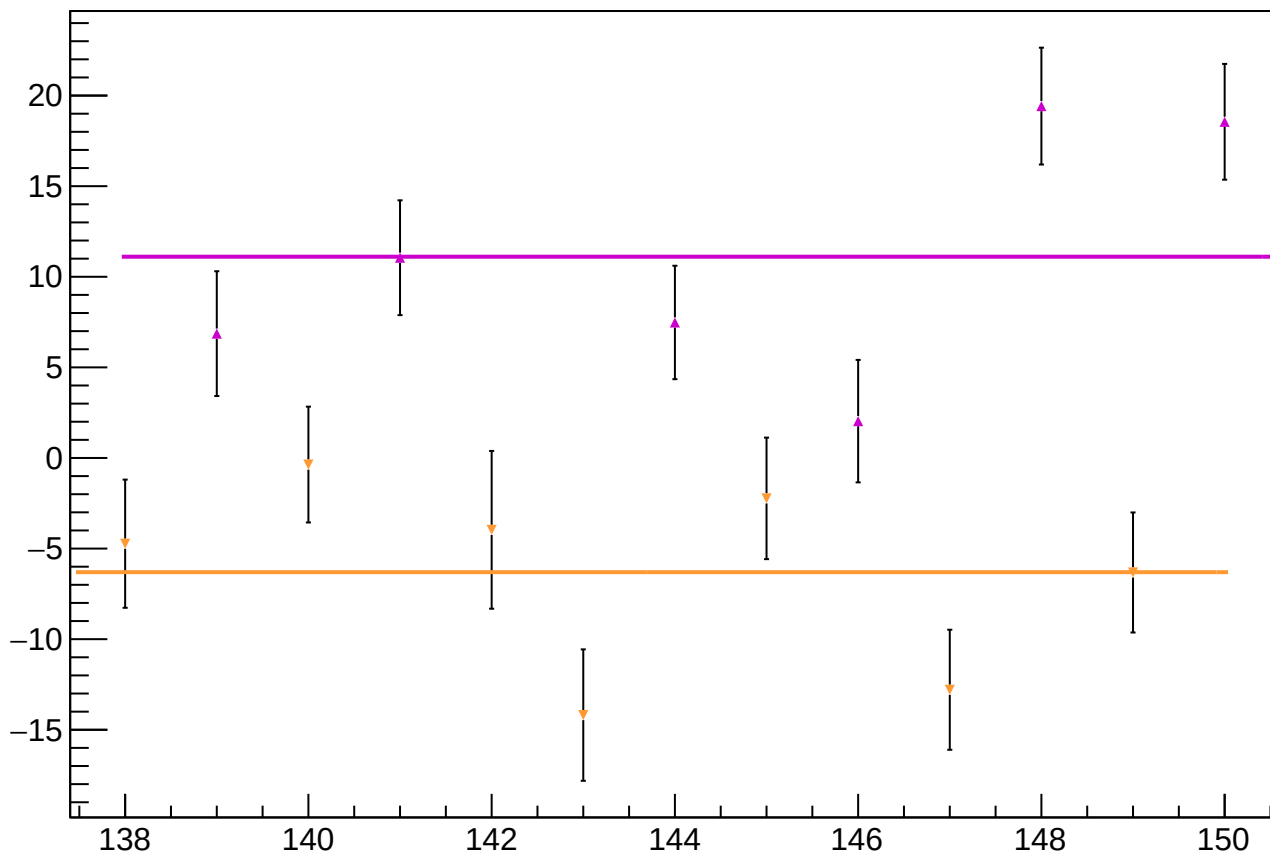
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 3898.134+/-1.256  $\chi^2/\text{NDF}$ :98203.3/5

Out: 3638.316+/-1.169  $\chi^2/\text{NDF}$ :171449.4/6

All: 3758.930+/-0.856  $\chi^2/\text{NDF}$ : 292578.0/12

# diff\_bpm0l01X\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -6.302+/-1.316  $\chi^2/\text{NDF}$ :14.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 11.107+/-1.327  $\chi^2/\text{NDF}$ :22.2/5

Left: 2.326+/-0.934  $\chi^2/\text{NDF}$ : 122.9/12

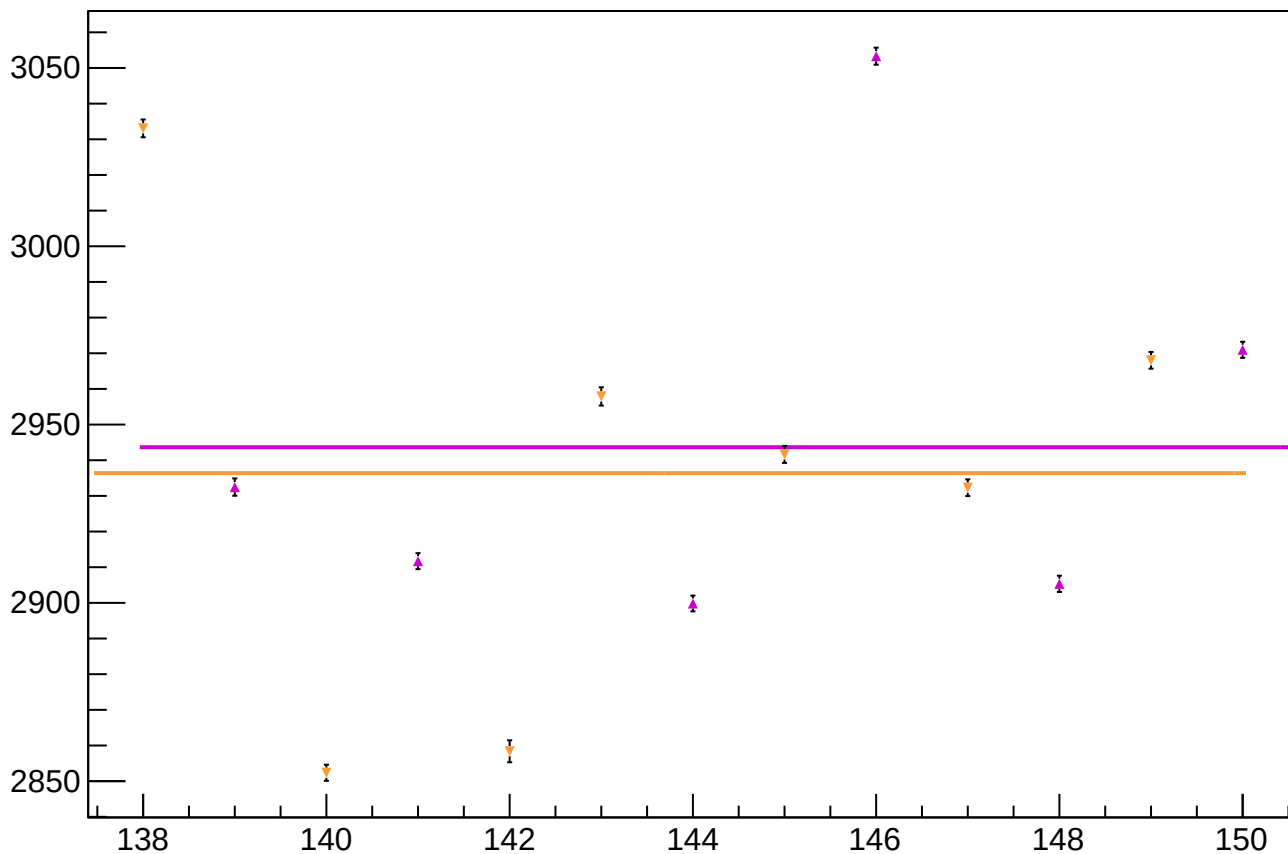
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 11.107+/-1.327  $\chi^2/\text{NDF}$ :22.2/5

Out: -6.302+/-1.316  $\chi^2/\text{NDF}$ :14.0/6

All: 2.326+/-0.934  $\chi^2/\text{NDF}$ : 122.9/12

# diff\_bpm0l01X\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2936.382+/-0.930  $\chi^2/\text{NDF}$ :3779.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2943.646+/-0.938  $\chi^2/\text{NDF}$ :3151.2/5

Left: 2939.982+/-0.661  $\chi^2/\text{NDF}$ : 6960.6/12

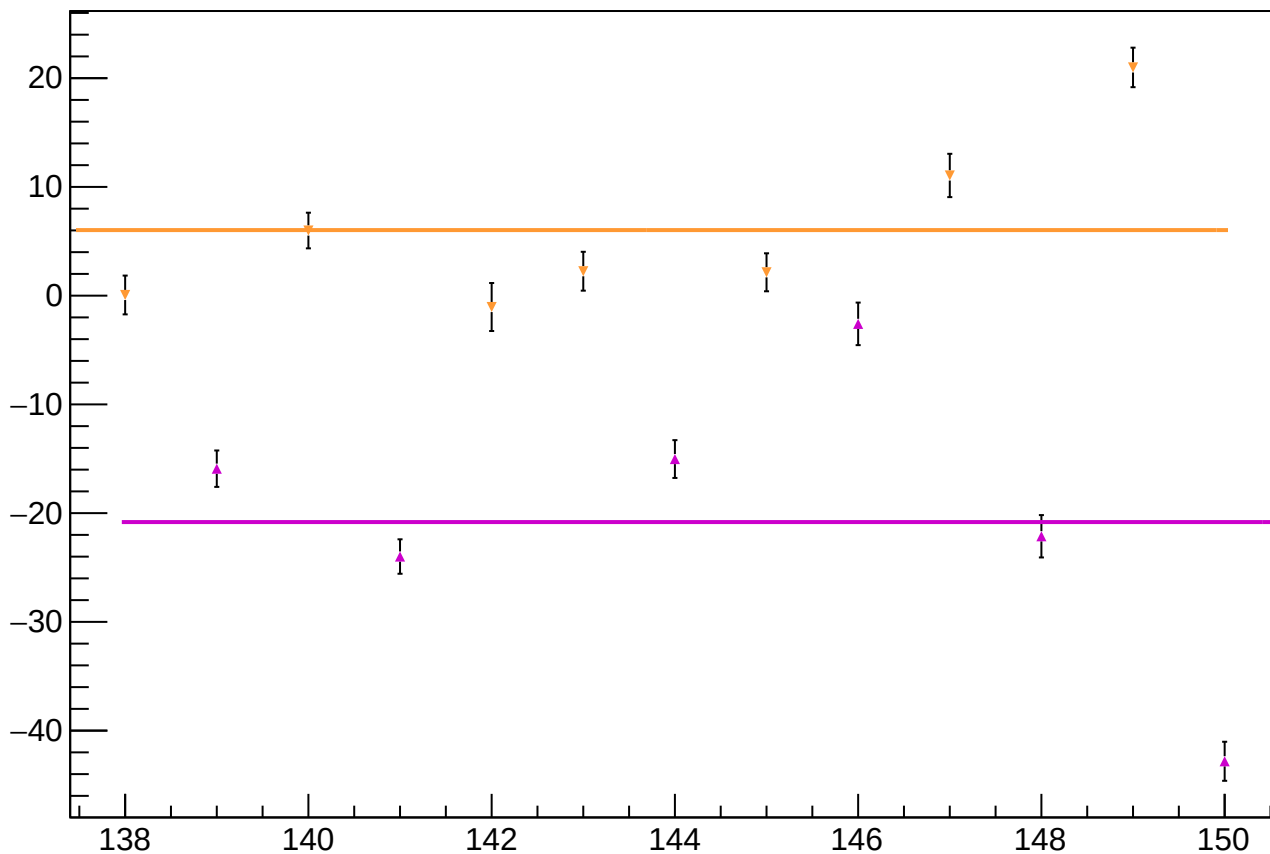
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2943.646+/-0.938  $\chi^2/\text{NDF}$ :3151.2/5

Out: 2936.382+/-0.930  $\chi^2/\text{NDF}$ :3779.2/6

All: 2939.982+/-0.661  $\chi^2/\text{NDF}$ : 6960.6/12

# diff\_bpm0l01Y\_mean vs Slug, Sign Corrected



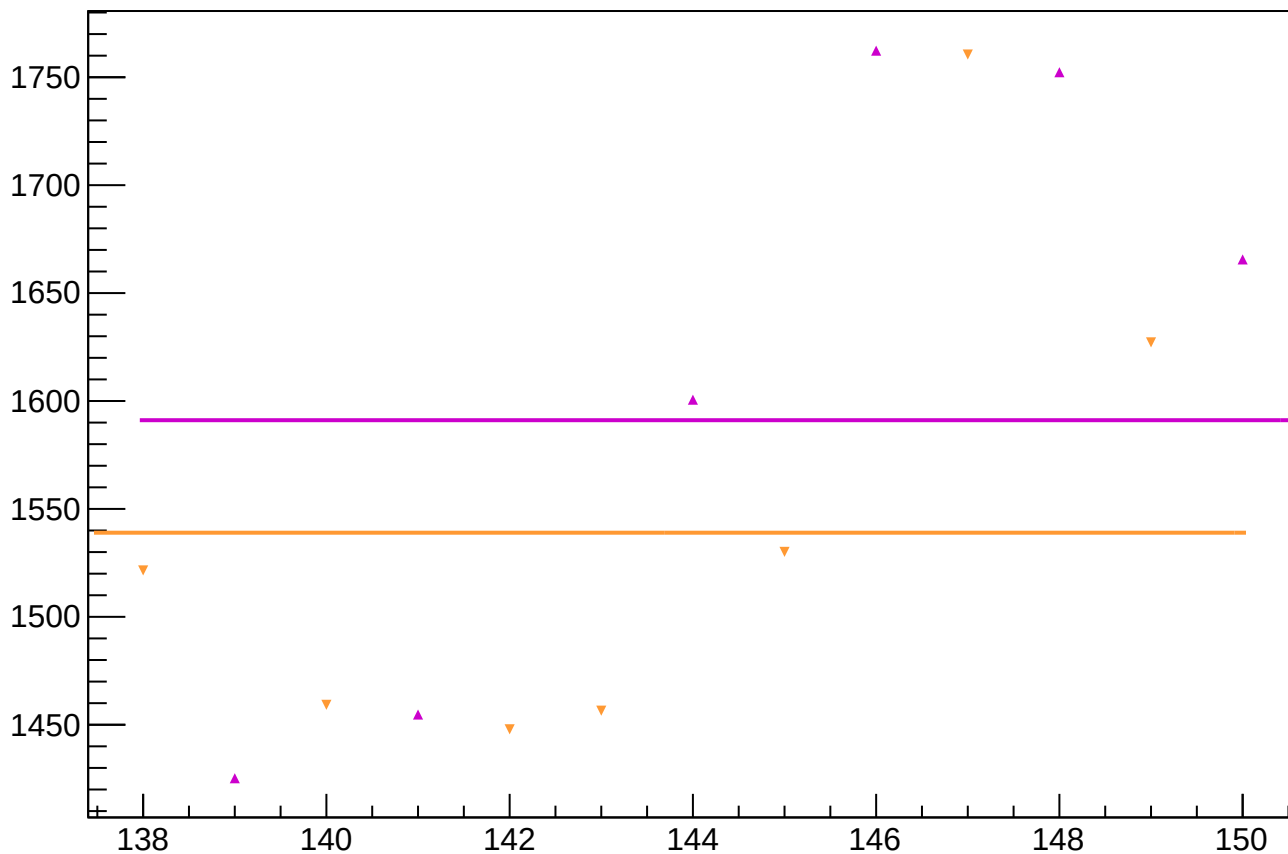
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.030+/-0.692  $\chi^2/\text{NDF}$ :105.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -20.821+/-0.722  $\chi^2/\text{NDF}$ :261.1/5

Left: -6.836+/-0.499  $\chi^2/\text{NDF}$ : 1087.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -20.821+/-0.722  $\chi^2/\text{NDF}$ :261.1/5  
 Out: 6.030+/-0.692  $\chi^2/\text{NDF}$ :105.1/6

All: -6.836+/-0.499  $\chi^2/\text{NDF}$ : 1087.5/12

# diff\_bpm0l01Y\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1538.982+/-0.489  $\chi^2/\text{NDF}$ :42119.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1591.106+/-0.510  $\chi^2/\text{NDF}$ :66965.2/5

Left: 1563.958+/-0.353  $\chi^2/\text{NDF}$ : 114521.5/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

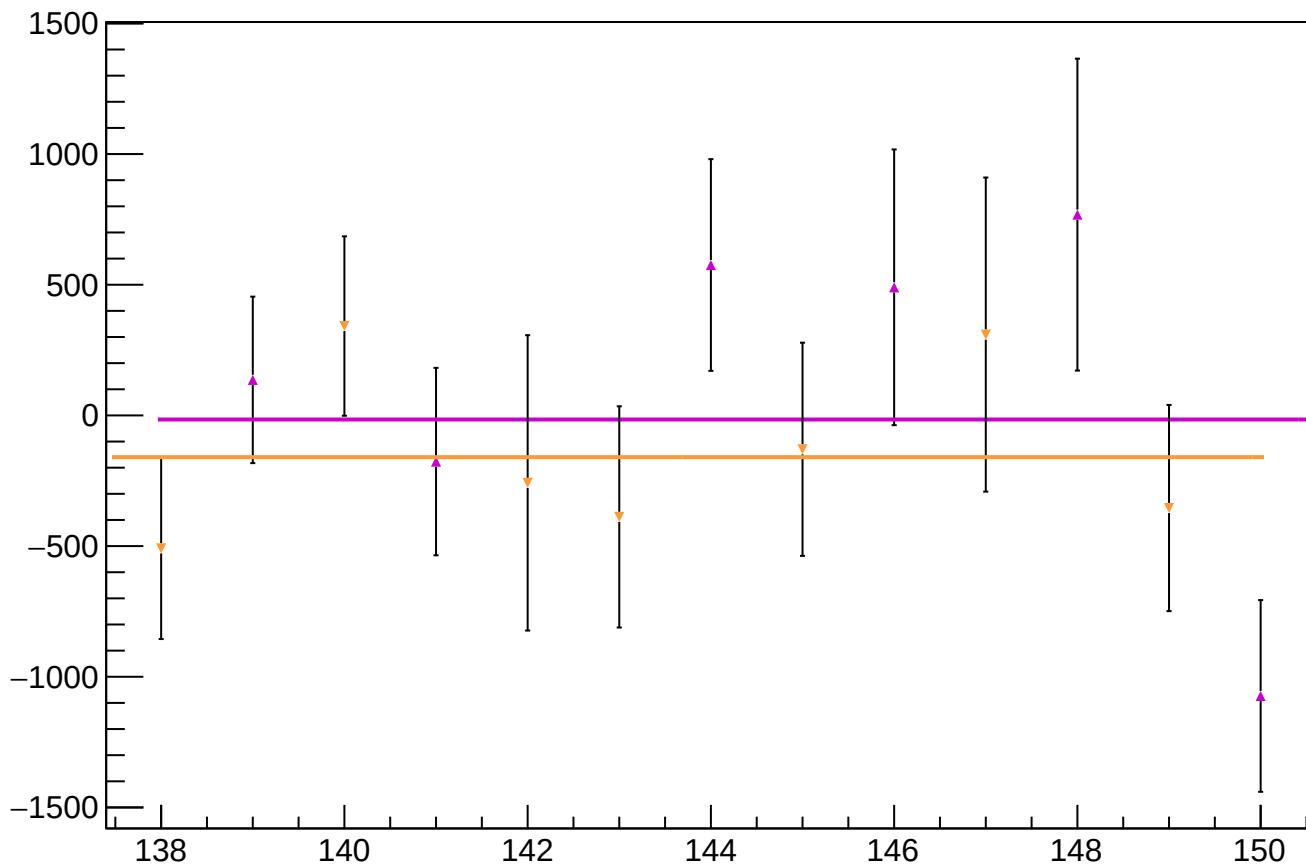
In: 1591.106+/-0.510  $\chi^2/\text{NDF}$ :66965.2/5

Out: 1538.982+/-0.489  $\chi^2/\text{NDF}$ :42119.7/6

All: 1563.958+/-0.353  $\chi^2/\text{NDF}$ : 114521.5/12



# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -159.651+/-156.714  $\chi^2/\text{NDF}$ : 4.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -15.620+/-163.170  $\chi^2/\text{NDF}$ : 13.5/5

Left: -90.541+/-113.027  $\chi^2/\text{NDF}$ : 18.3/12

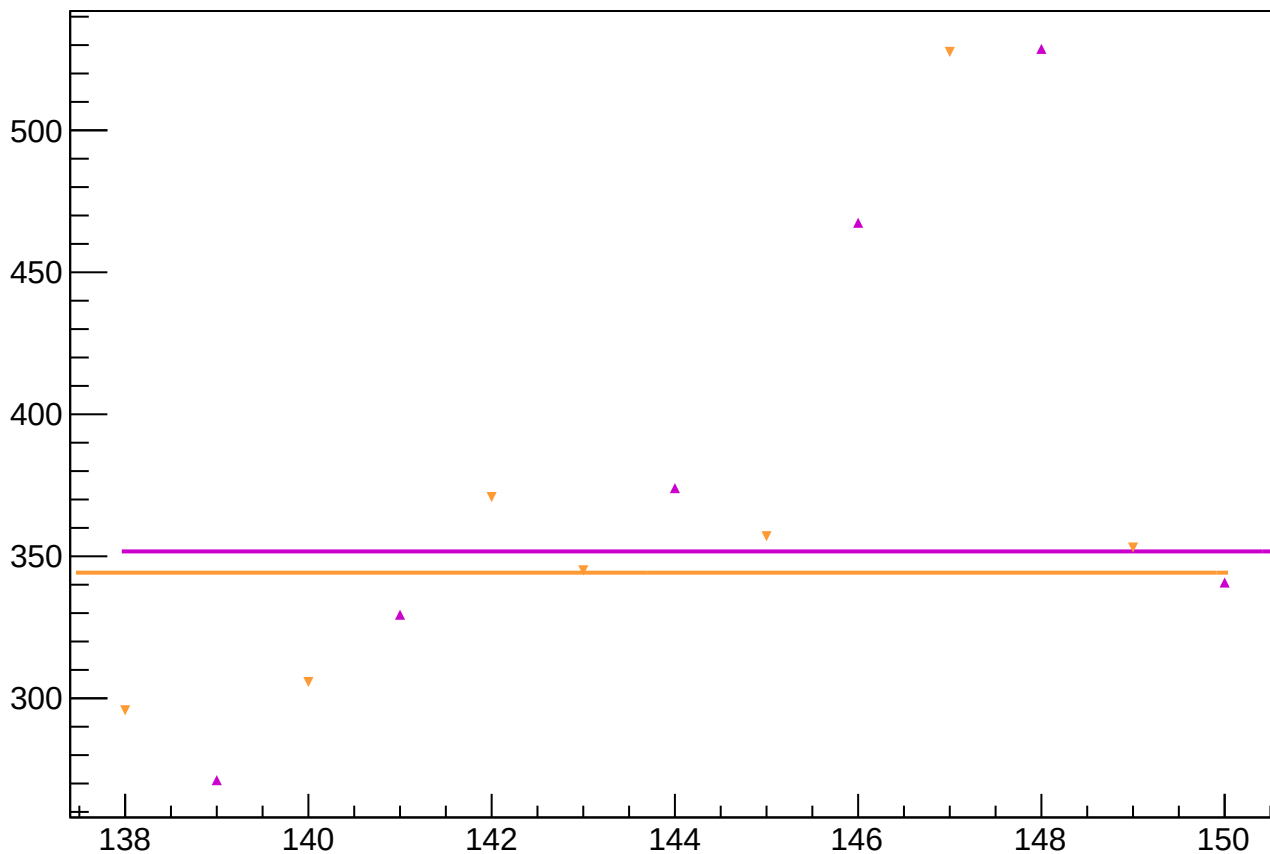
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.620+/-163.170  $\chi^2/\text{NDF}$ : 13.5/5

Out: -159.651+/-156.714  $\chi^2/\text{NDF}$ : 4.3/6

All: -90.541+/-113.027  $\chi^2/\text{NDF}$ : 18.3/12

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 344.238+/-0.111  $\chi^2/\text{NDF}$ :257792.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 351.722+/-0.115  $\chi^2/\text{NDF}$ :415529.0/5

Left: 347.829+/-0.080  $\chi^2/\text{NDF}$ : 675510.5/12

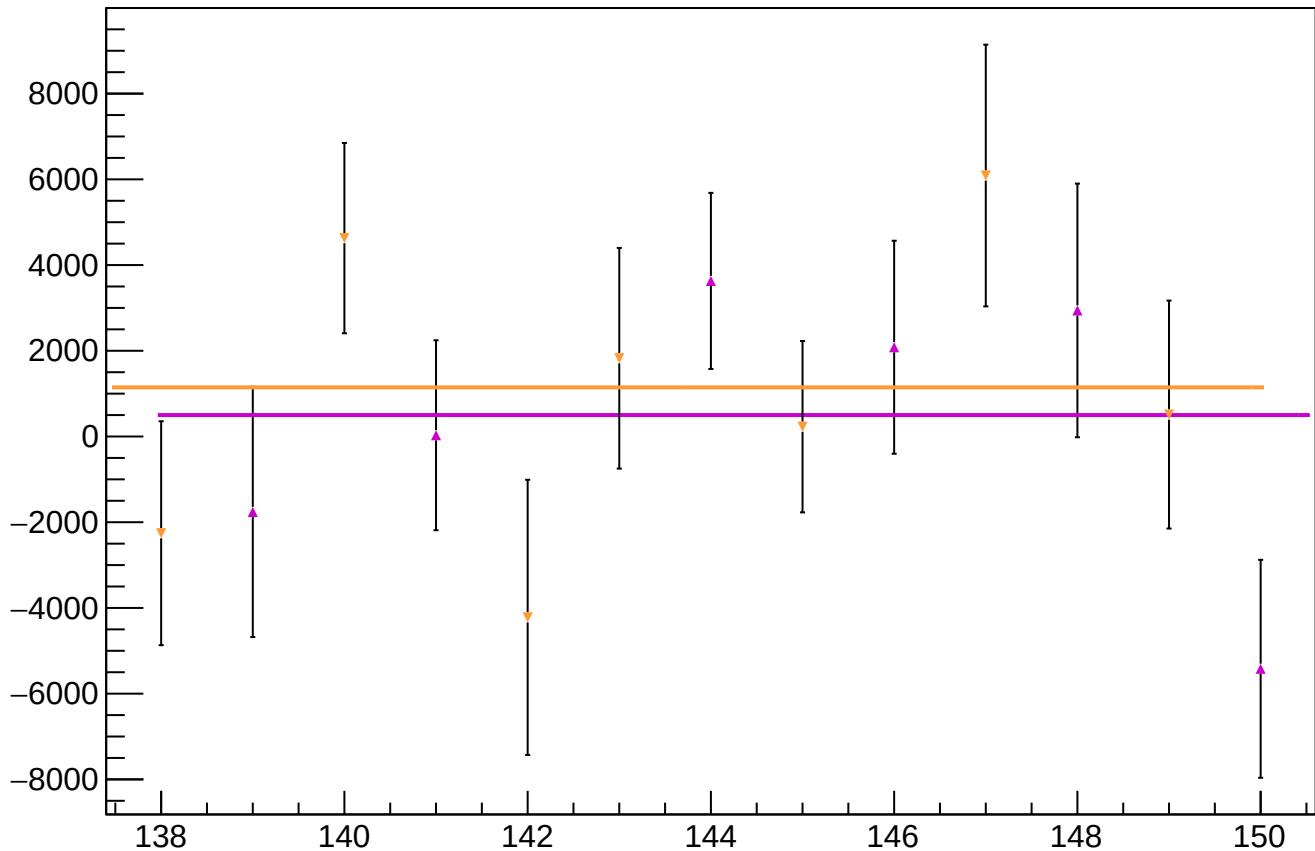
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 351.722+/-0.115  $\chi^2/\text{NDF}$ :415529.0/5

Out: 344.238+/-0.111  $\chi^2/\text{NDF}$ :257792.8/6

All: 347.829+/-0.080  $\chi^2/\text{NDF}$ : 675510.5/12

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1146.552+/-955.053  $\chi^2/\text{NDF}$ :9.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 500.509+/-1005.677  $\chi^2/\text{NDF}$ :9.5/5

Left: 840.200+/-692.530  $\chi^2/\text{NDF}$ : 19.6/12

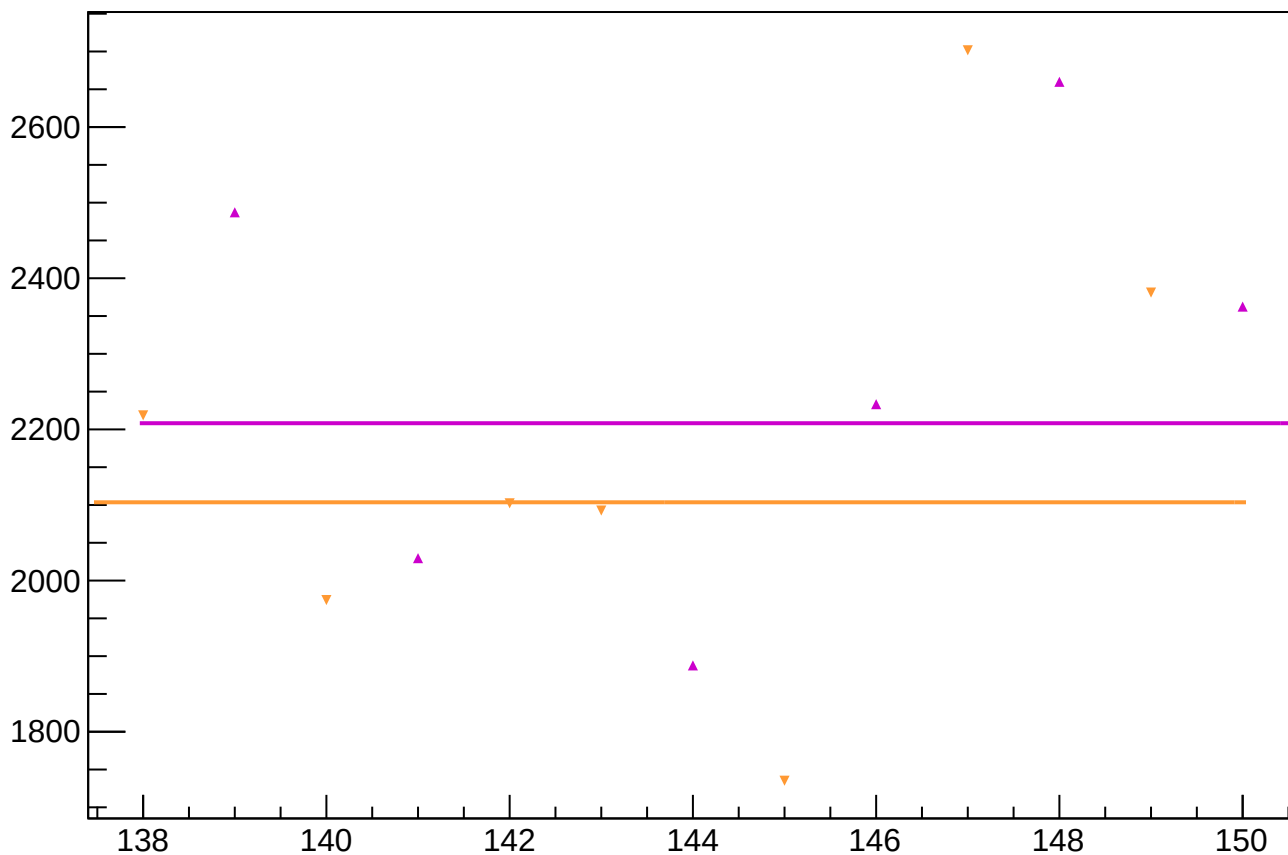
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 500.509+/-1005.677  $\chi^2/\text{NDF}$ :9.5/5

Out: 1146.552+/-955.053  $\chi^2/\text{NDF}$ :9.9/6

All: 840.200+/-692.530  $\chi^2/\text{NDF}$ : 19.6/12

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2103.572+/-0.675  $\chi^2/\text{NDF}$ :177156.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2208.192+/-0.711  $\chi^2/\text{NDF}$ :134093.9/5

Left: 2153.182+/-0.490  $\chi^2/\text{NDF}$ : 322630.5/12

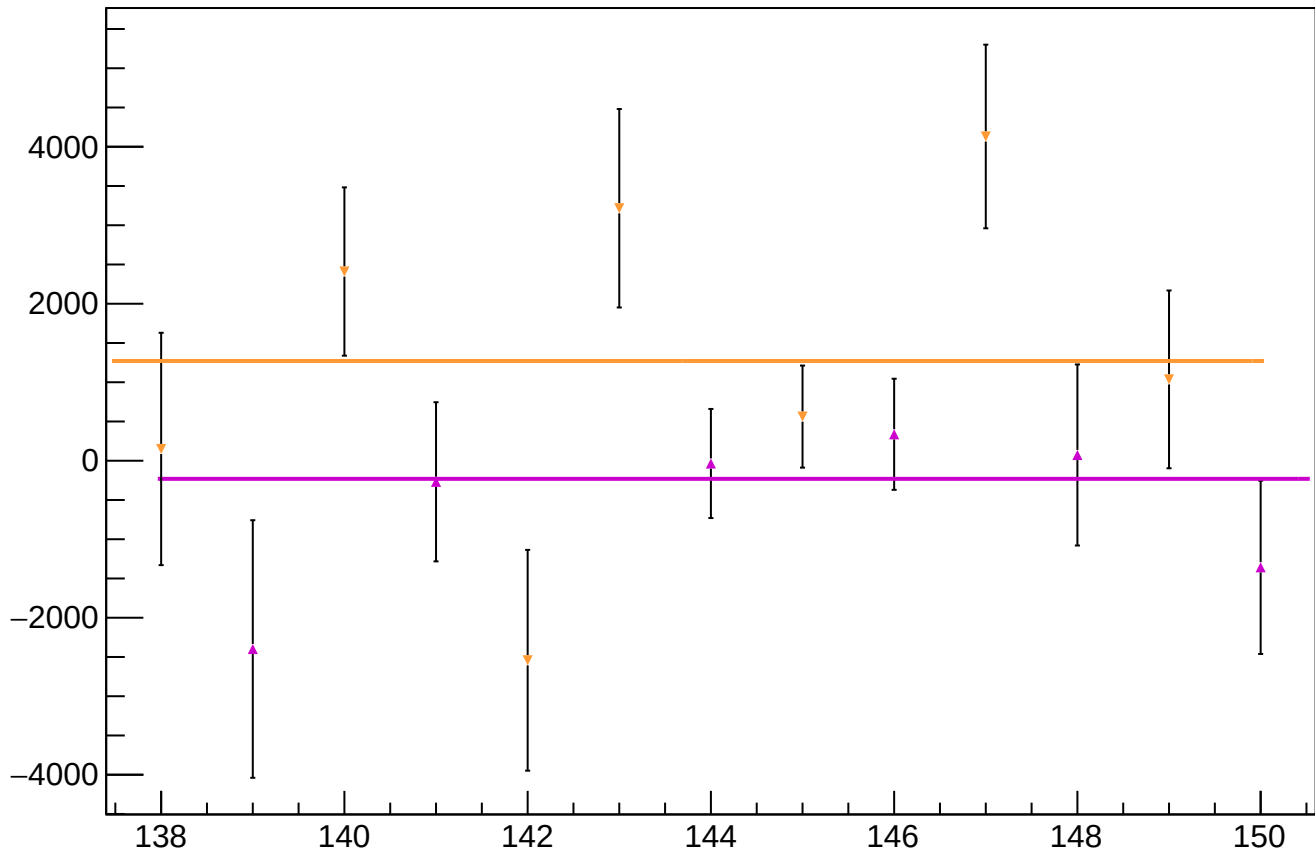
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2208.192+/-0.711  $\chi^2/\text{NDF}$ :134093.9/5

Out: 2103.572+/-0.675  $\chi^2/\text{NDF}$ :177156.0/6

All: 2153.182+/-0.490  $\chi^2/\text{NDF}$ : 322630.5/12

# asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1270.881+/-397.324  $\chi^2/\text{NDF}$ :18.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -230.580+/-378.369  $\chi^2/\text{NDF}$ :3.6/5

Left: 483.482+/-274.004  $\chi^2/\text{NDF}$ : 29.7/12

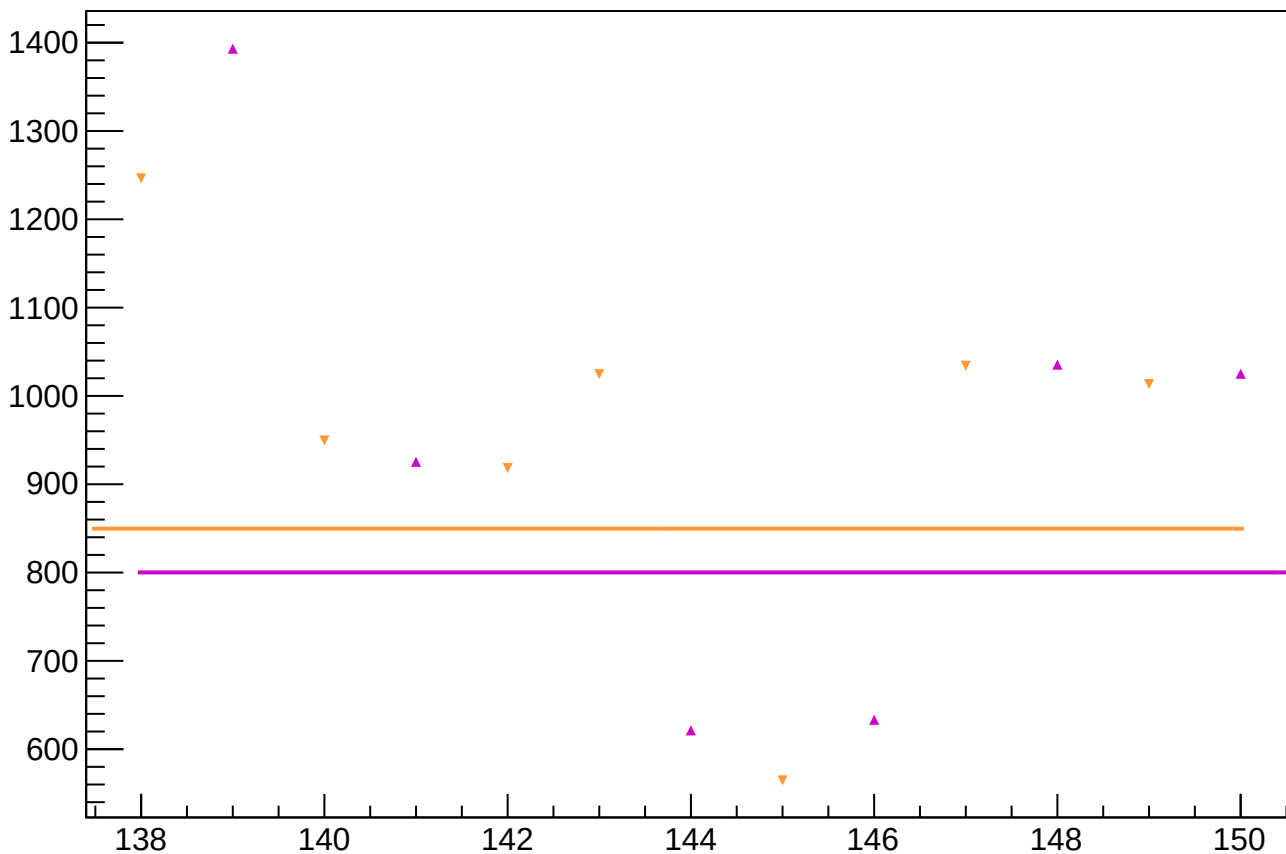
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -230.580+/-378.369  $\chi^2/\text{NDF}$ :3.6/5

Out: 1270.881+/-397.324  $\chi^2/\text{NDF}$ :18.6/6

All: 483.482+/-274.004  $\chi^2/\text{NDF}$ : 29.7/12

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 849.743+/-0.281  $\chi^2/\text{NDF}$ : 680069.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 800.150+/-0.268  $\chi^2/\text{NDF}$ : 701822.2/5

Left: 823.735+/-0.194  $\chi^2/\text{NDF}$ : 1398231.6/12

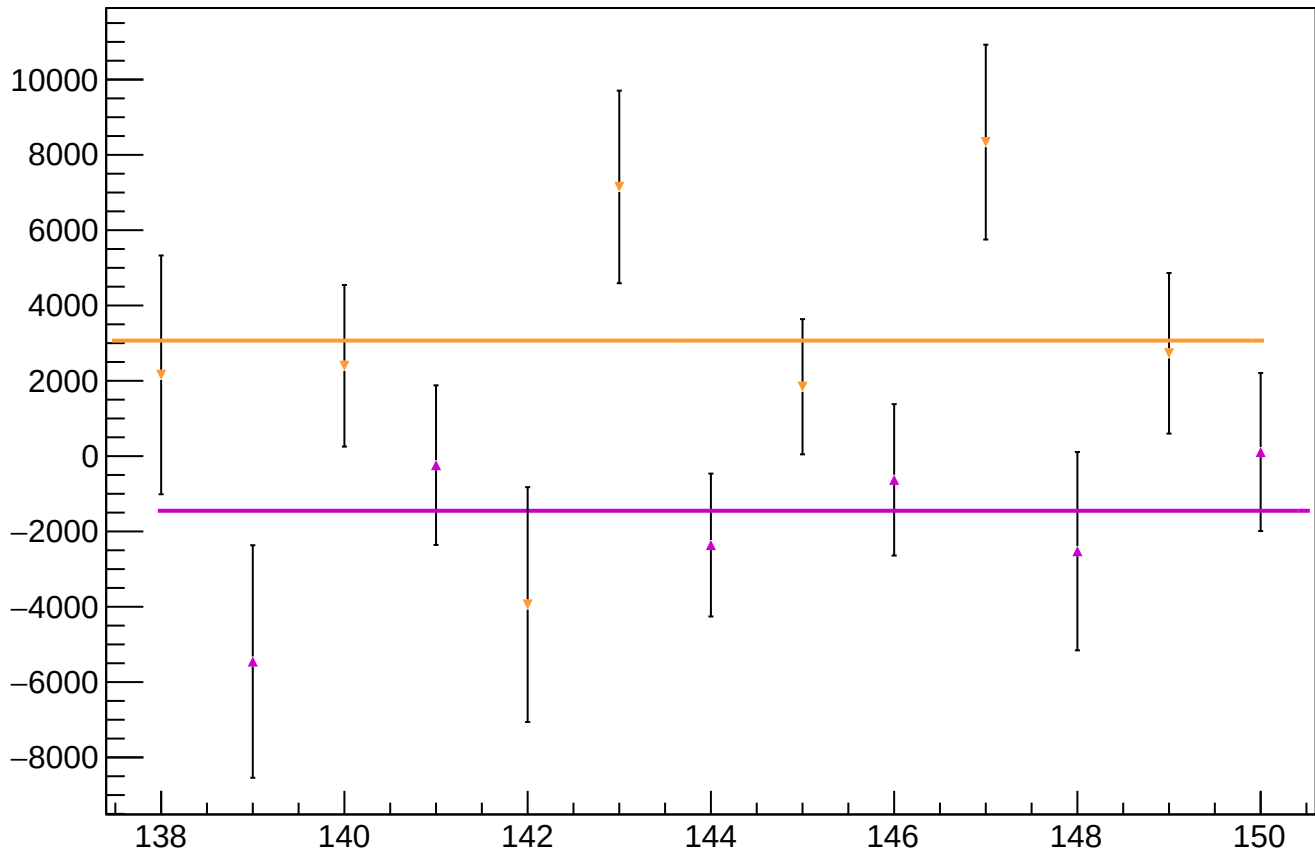
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 800.150+/-0.268  $\chi^2/\text{NDF}$ : 701822.2/5

Out: 849.743+/-0.281  $\chi^2/\text{NDF}$ : 680069.6/6

All: 823.735+/-0.194  $\chi^2/\text{NDF}$ : 1398231.6/12

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3068.500+/-893.730  $\chi^2/\text{NDF}$ :12.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1450.741+/-903.799  $\chi^2/\text{NDF}$ :3.1/5

Left: 834.193+/-635.493  $\chi^2/\text{NDF}$ : 28.2/12

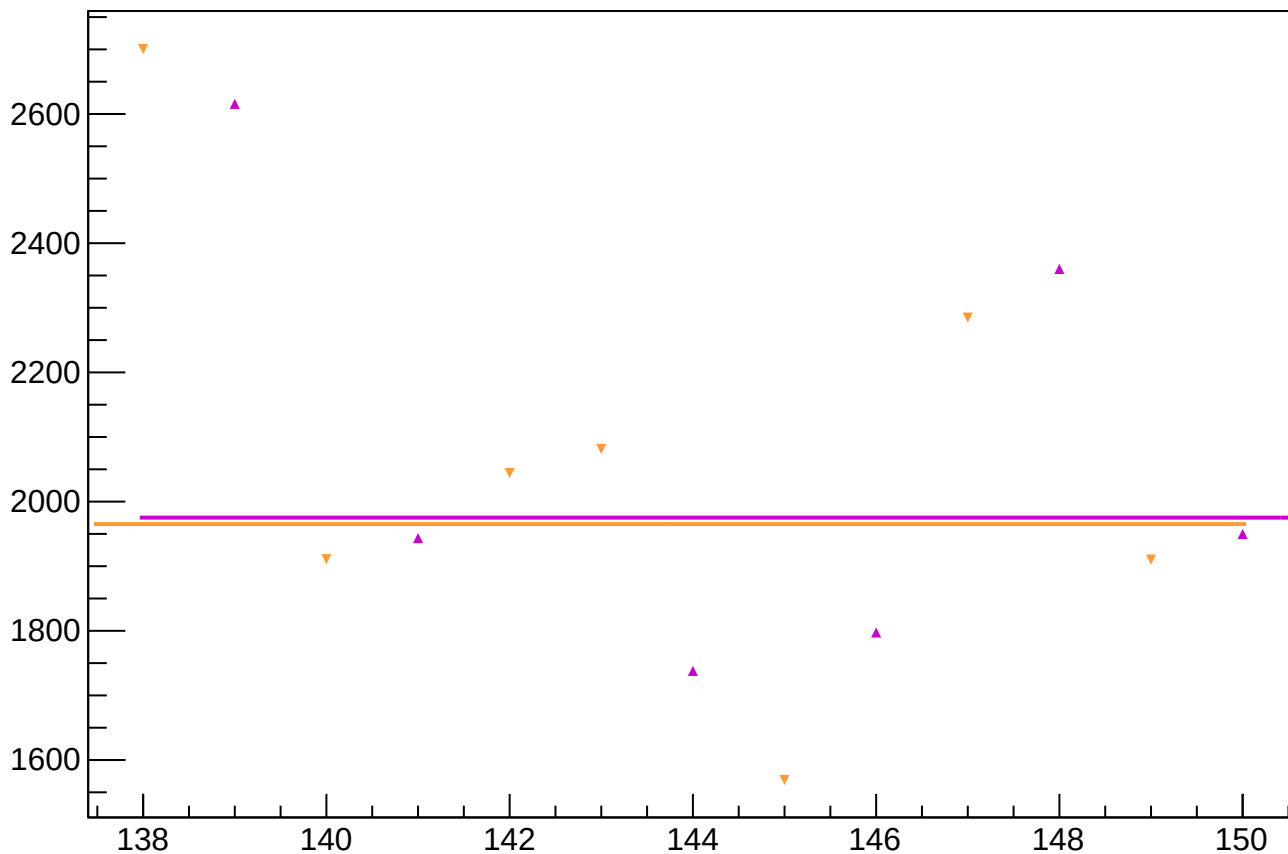
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1450.741+/-903.799  $\chi^2/\text{NDF}$ :3.1/5

Out: 3068.500+/-893.730  $\chi^2/\text{NDF}$ :12.4/6

All: 834.193+/-635.493  $\chi^2/\text{NDF}$ : 28.2/12

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 0.000 +/- 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1965.218 +/- 0.632  $\chi^2$ /NDF: 243468.5/6

Right Out: 0.000 +/- 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1975.194 +/- 0.639  $\chi^2$ /NDF: 176433.2/5

Left: 1970.150 +/- 0.449  $\chi^2$ /NDF: 420024.9/12

Right: 0.000 +/- 0.000  $\chi^2$ /NDF: 0.0/0

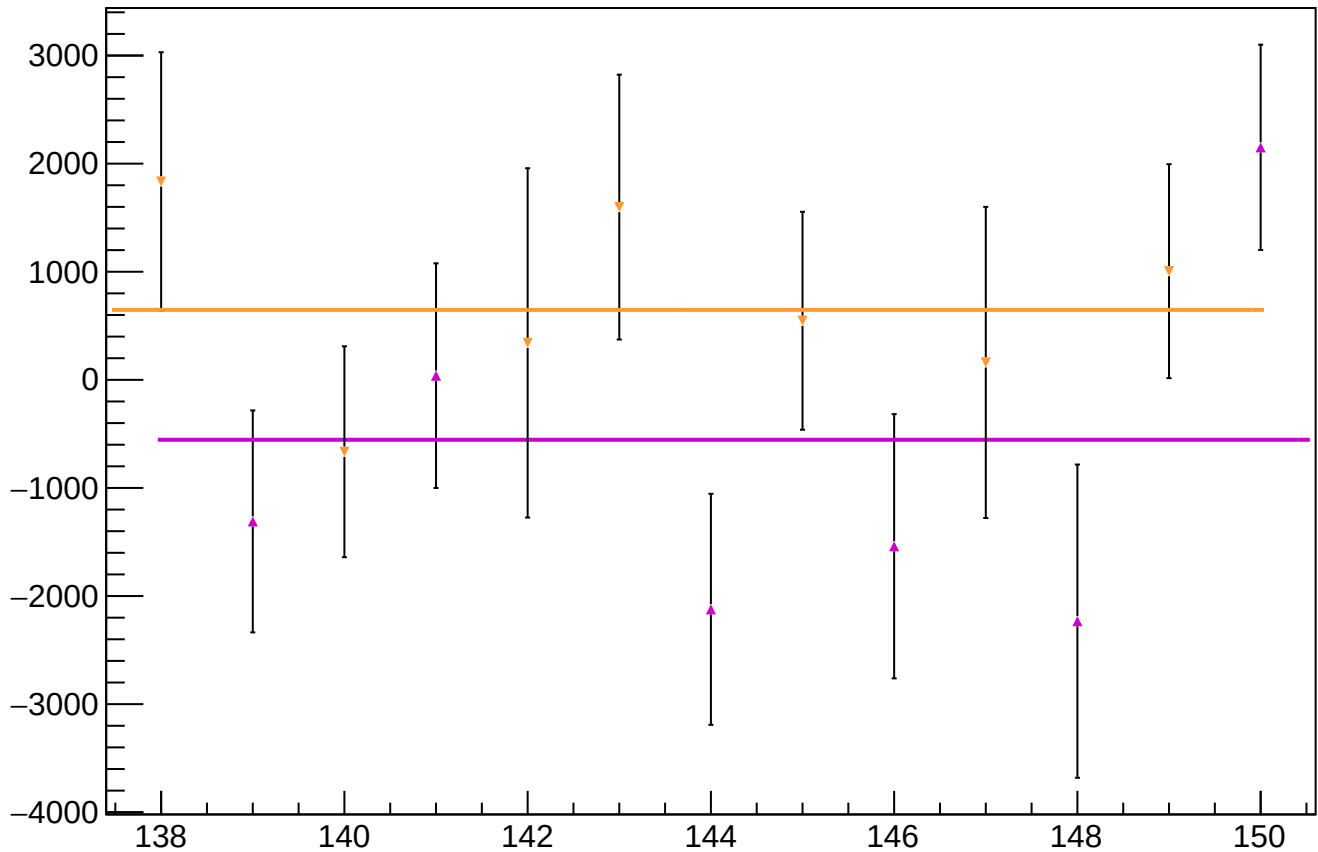
In: 1975.194 +/- 0.639  $\chi^2$ /NDF: 176433.2/5

Out: 1965.218 +/- 0.632  $\chi^2$ /NDF: 243468.5/6

All: 1970.150 +/- 0.449  $\chi^2$ /NDF: 420024.9/12



# asym\_sam5\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 647.232+/-434.911  $\chi^2/\text{NDF}$ :3.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -554.141+/-447.013  $\chi^2/\text{NDF}$ :13.1/5

Left: 63.028+/-311.719  $\chi^2/\text{NDF}$ : 20.5/12

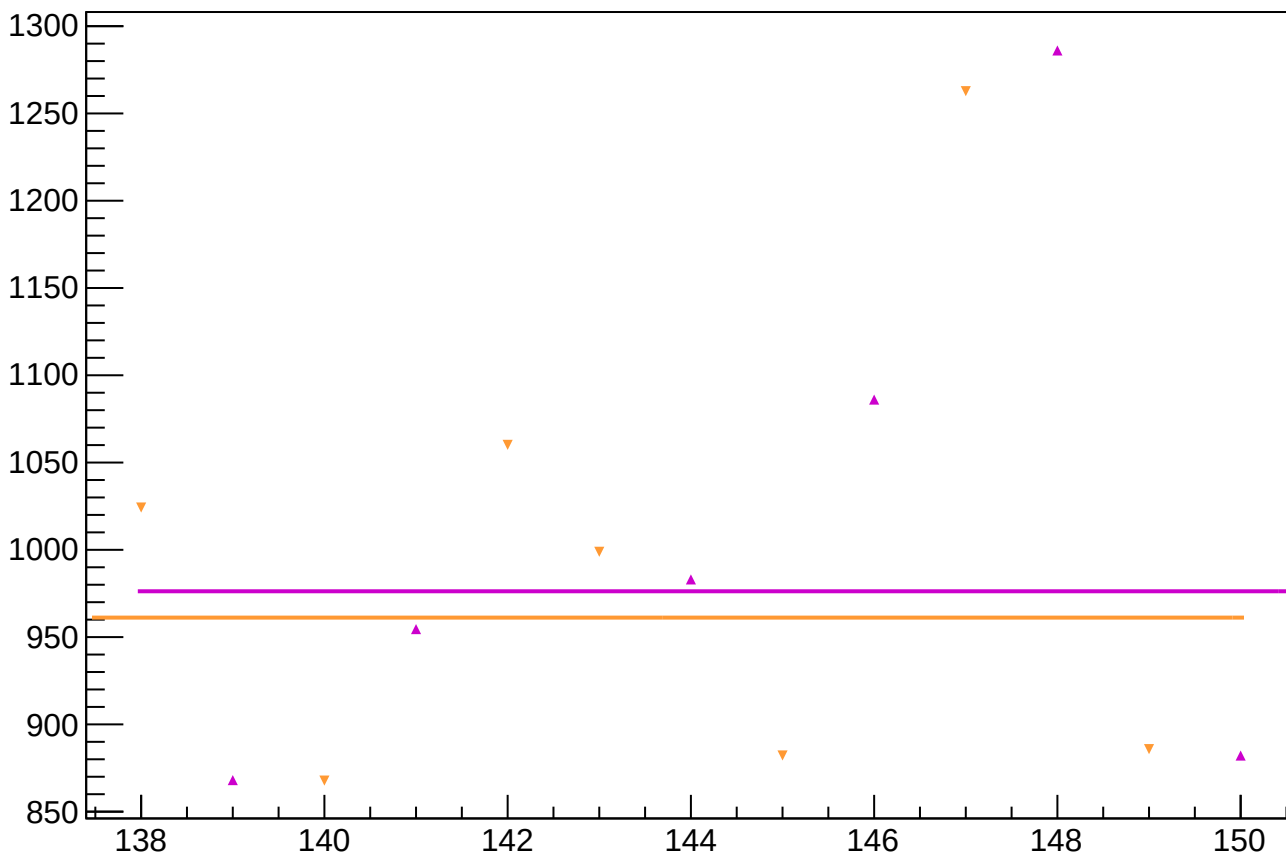
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -554.141+/-447.013  $\chi^2/\text{NDF}$ :13.1/5

Out: 647.232+/-434.911  $\chi^2/\text{NDF}$ :3.7/6

All: 63.028+/-311.719  $\chi^2/\text{NDF}$ : 20.5/12

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 961.169+/-0.308  $\chi^2/\text{NDF}$ :144987.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 976.254+/-0.316  $\chi^2/\text{NDF}$ :150381.8/5

Left: 968.504+/-0.220  $\chi^2/\text{NDF}$ : 296539.3/12

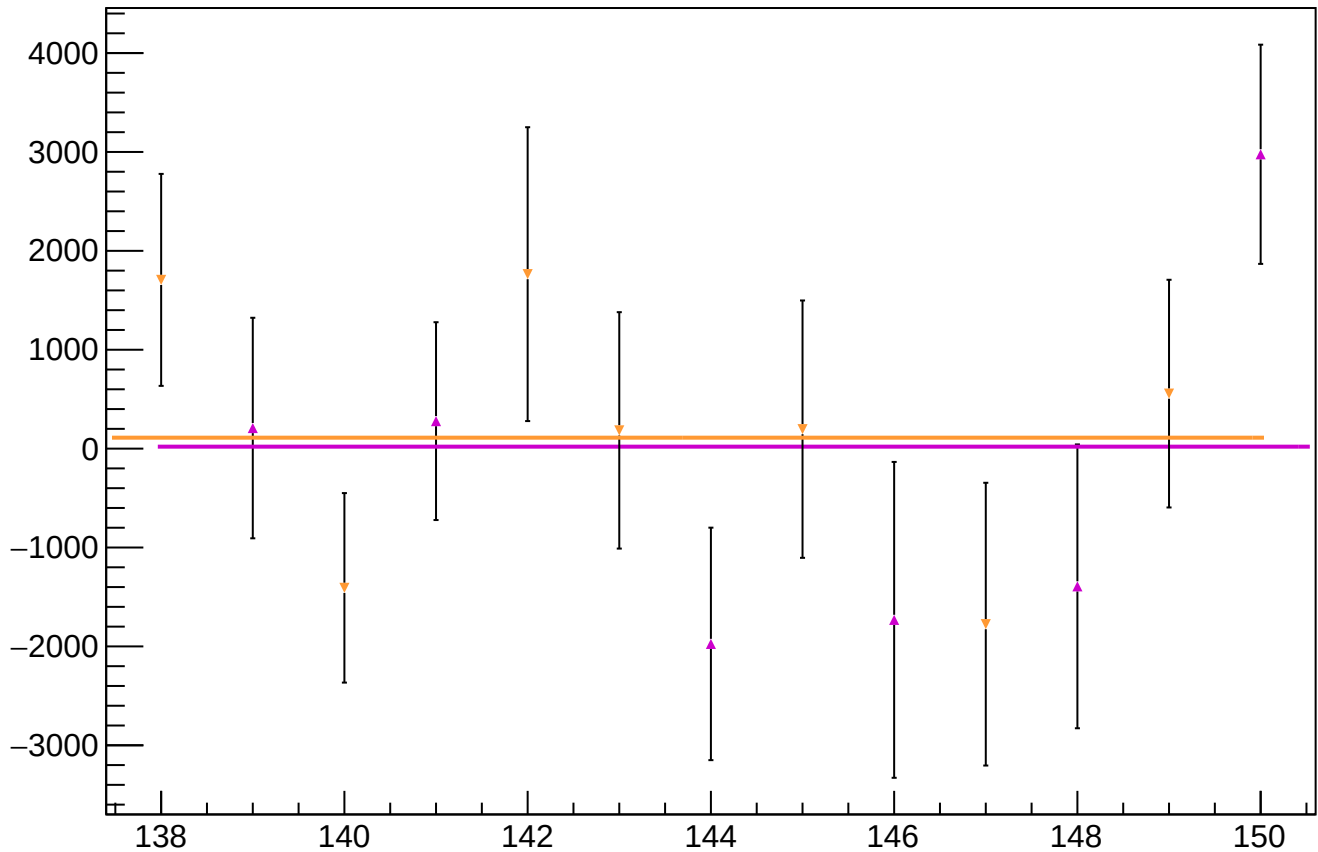
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 976.254+/-0.316  $\chi^2/\text{NDF}$ :150381.8/5

Out: 961.169+/-0.308  $\chi^2/\text{NDF}$ :144987.5/6

All: 968.504+/-0.220  $\chi^2/\text{NDF}$ : 296539.3/12

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 110.782+/-449.602  $\chi^2/\text{NDF}$ : 7.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 19.933+/-486.843  $\chi^2/\text{NDF}$ : 12.3/5

Left: 68.964+/-330.299  $\chi^2/\text{NDF}$ : 20.1/12

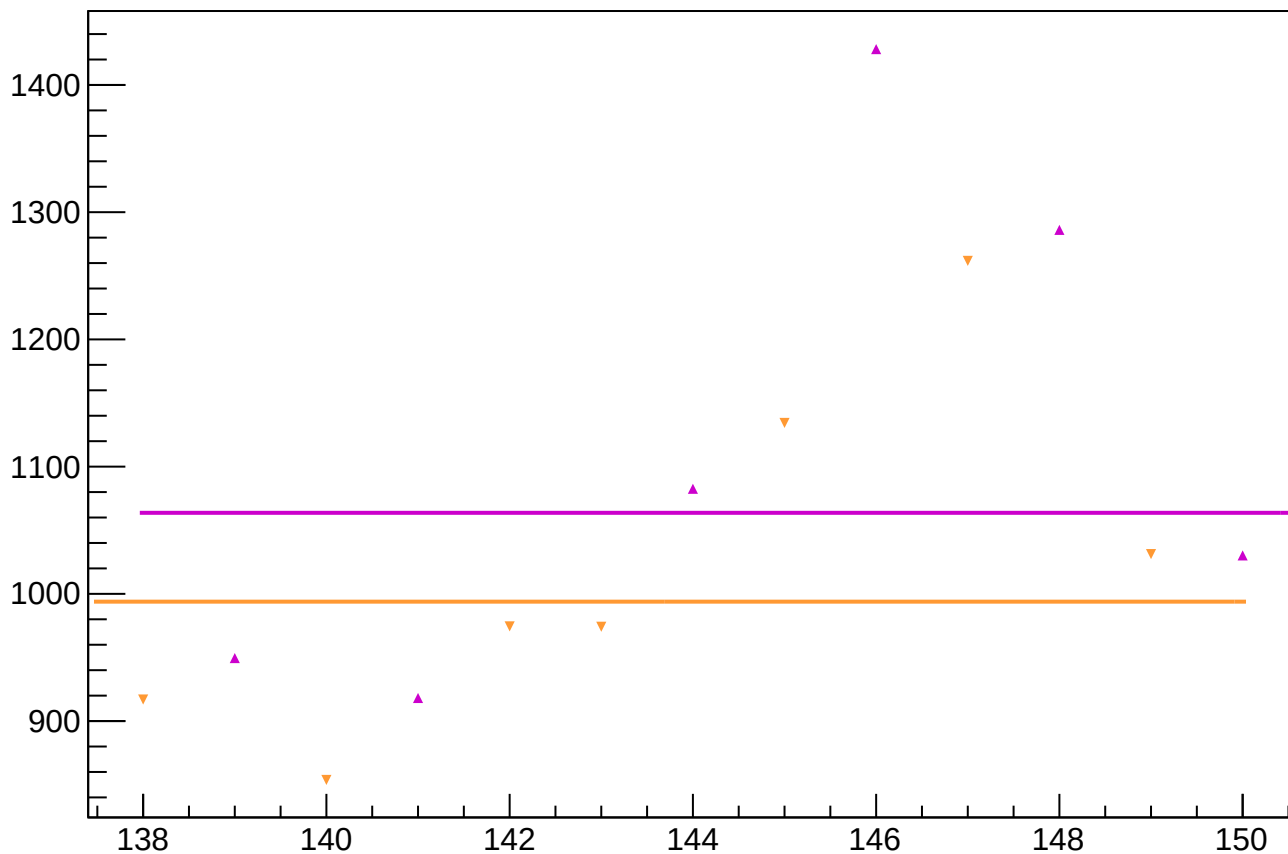
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 19.933+/-486.843  $\chi^2/\text{NDF}$ : 12.3/5

Out: 110.782+/-449.602  $\chi^2/\text{NDF}$ : 7.9/6

All: 68.964+/-330.299  $\chi^2/\text{NDF}$ : 20.1/12

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 993.874+/-0.318  $\chi^2/\text{NDF}$ :149594.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1063.698+/-0.344  $\chi^2/\text{NDF}$ :217859.1/5

Left: 1026.014+/-0.234  $\chi^2/\text{NDF}$ : 389657.1/12

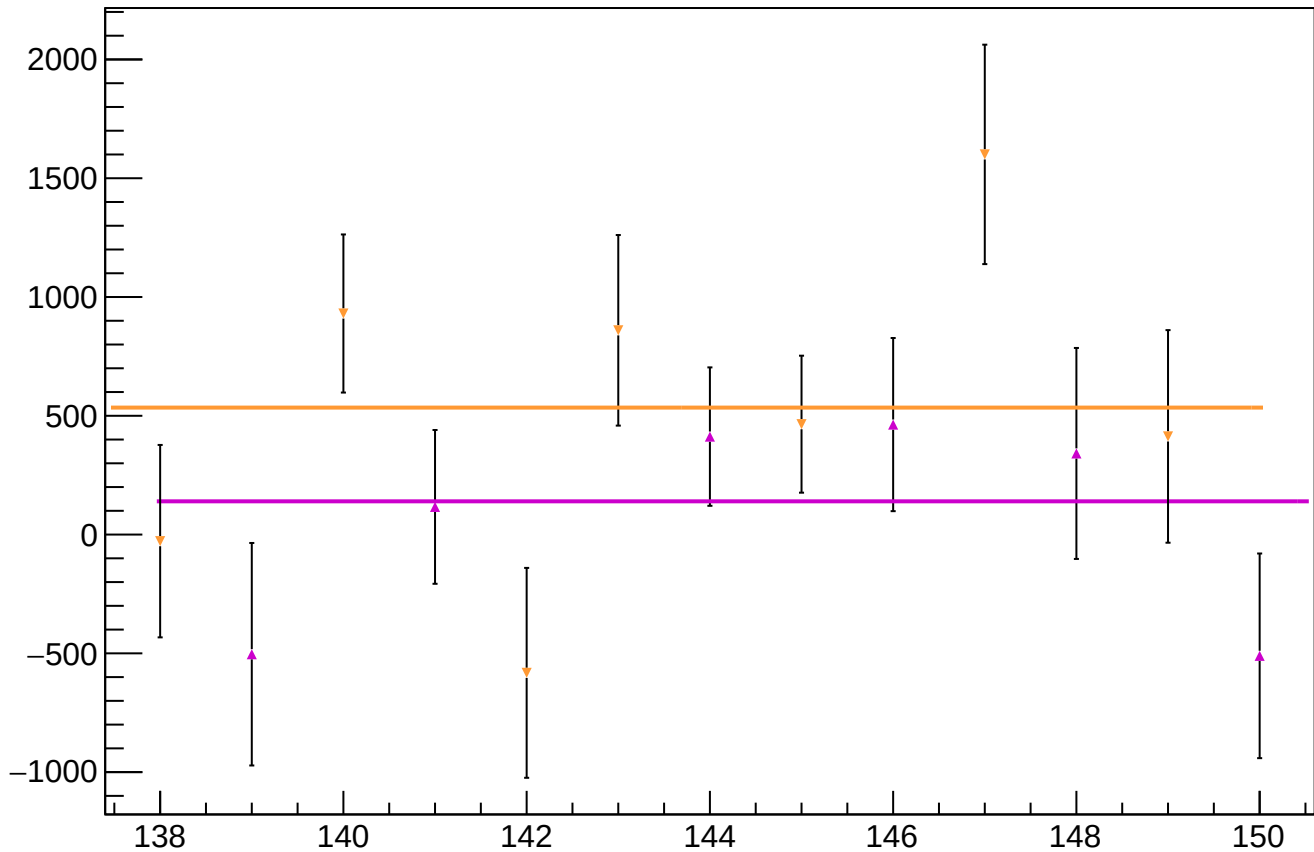
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1063.698+/-0.344  $\chi^2/\text{NDF}$ :217859.1/5

Out: 993.874+/-0.318  $\chi^2/\text{NDF}$ :149594.1/6

All: 1026.014+/-0.234  $\chi^2/\text{NDF}$ : 389657.1/12

# asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 534.510+/-144.076  $\chi^2/\text{NDF}$ :15.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 139.921+/-150.974  $\chi^2/\text{NDF}$ :6.0/5

Left: 346.435+/-104.231  $\chi^2/\text{NDF}$ : 25.5/12

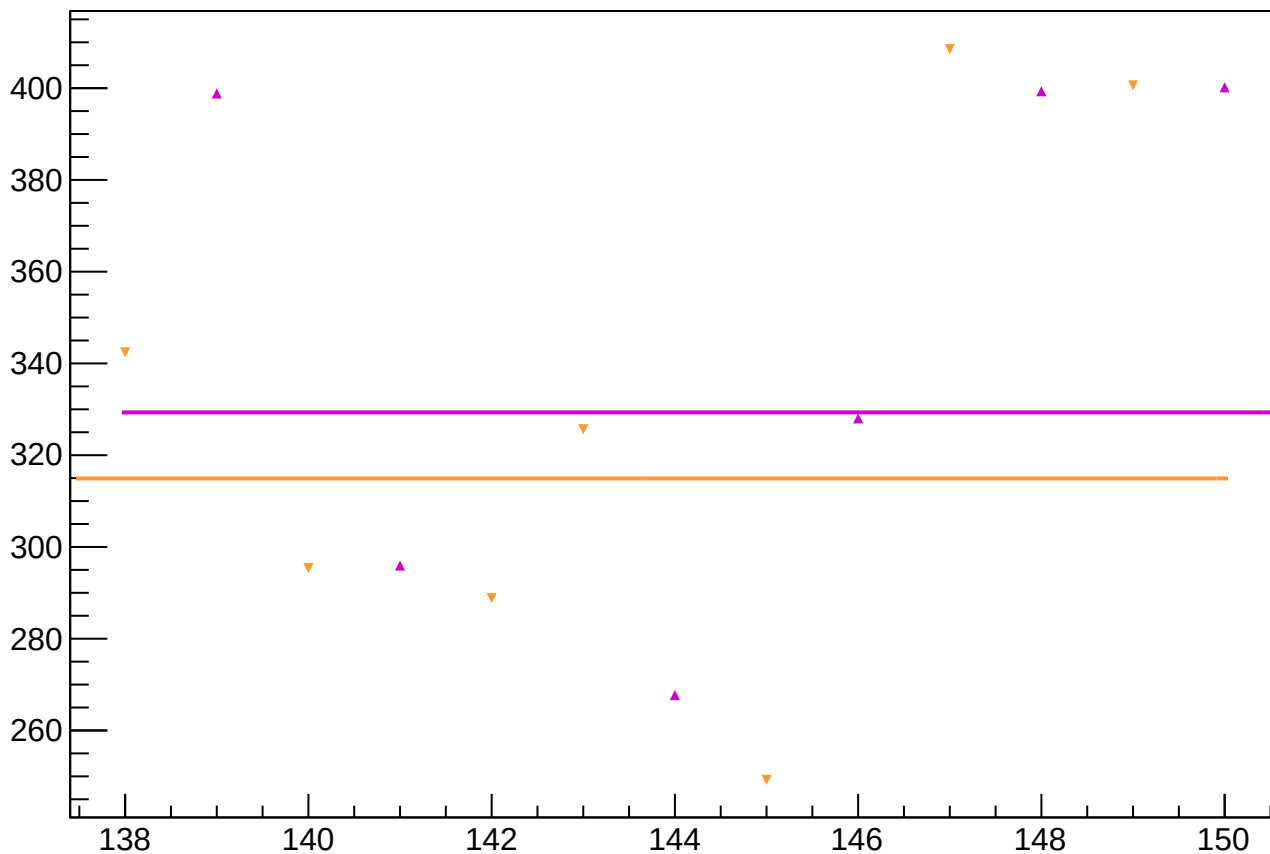
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 139.921+/-150.974  $\chi^2/\text{NDF}$ :6.0/5

Out: 534.510+/-144.076  $\chi^2/\text{NDF}$ :15.8/6

All: 346.435+/-104.231  $\chi^2/\text{NDF}$ : 25.5/12

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 314.935+/-0.102  $\chi^2/\text{NDF}$ :283742.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 329.322+/-0.107  $\chi^2/\text{NDF}$ :258593.4/5

Left: 321.792+/-0.074  $\chi^2/\text{NDF}$ : 551842.1/12

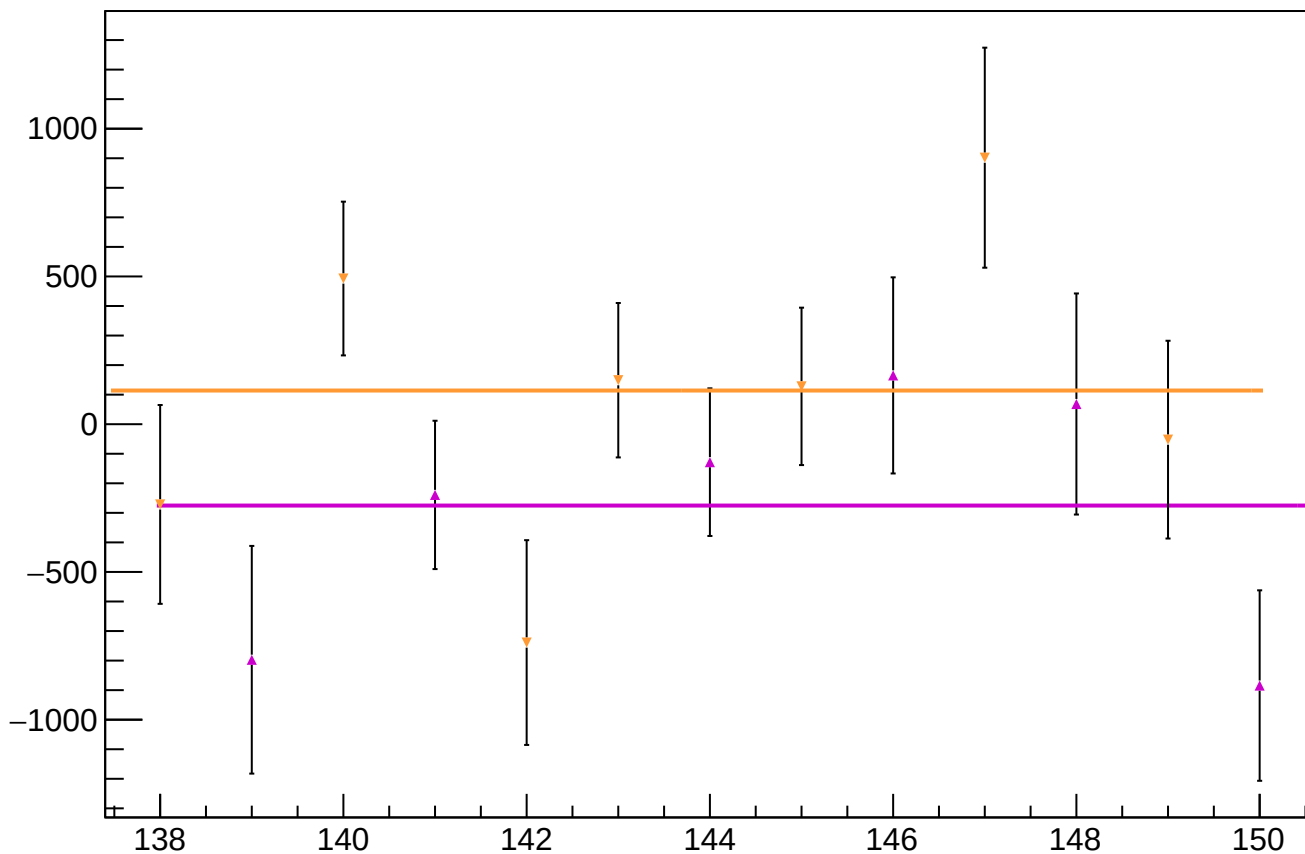
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 329.322+/-0.107  $\chi^2/\text{NDF}$ :258593.4/5

Out: 314.935+/-0.102  $\chi^2/\text{NDF}$ :283742.4/6

All: 321.792+/-0.074  $\chi^2/\text{NDF}$ : 551842.1/12

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 113.951+/-114.089  $\chi^2/\text{NDF}$ :14.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -275.332+/-124.525  $\chi^2/\text{NDF}$ :8.4/5

Left: -63.697+/-84.121  $\chi^2/\text{NDF}$ : 27.9/12

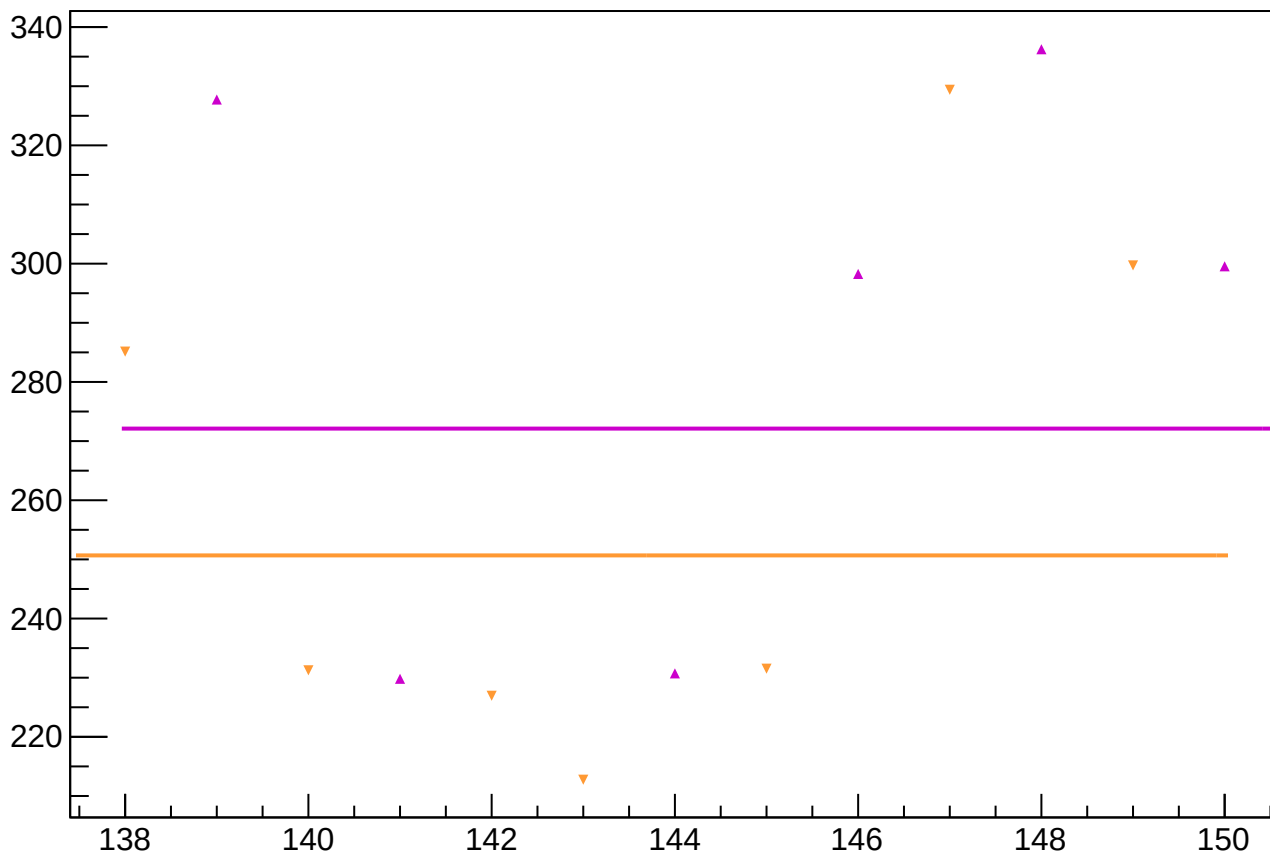
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -275.332+/-124.525  $\chi^2/\text{NDF}$ :8.4/5

Out: 113.951+/-114.089  $\chi^2/\text{NDF}$ :14.2/6

All: -63.697+/-84.121  $\chi^2/\text{NDF}$ : 27.9/12

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 250.675+/-0.081  $\chi^2/\text{NDF}$ :226326.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 272.115+/-0.088  $\chi^2/\text{NDF}$ :239101.1/5

Left: 260.459+/-0.059  $\chi^2/\text{NDF}$ : 497657.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

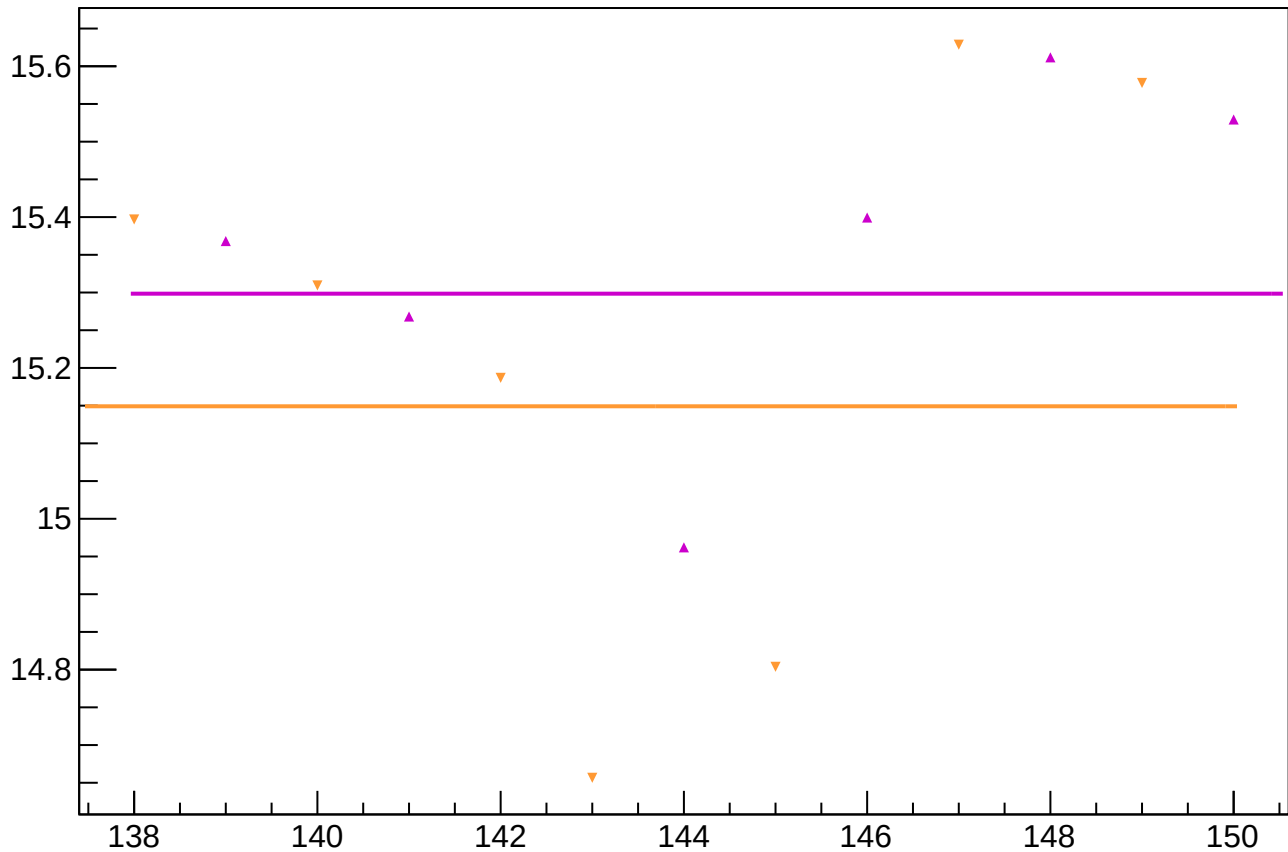
In: 272.115+/-0.088  $\chi^2/\text{NDF}$ :239101.1/5

Out: 250.675+/-0.081  $\chi^2/\text{NDF}$ :226326.8/6

All: 260.459+/-0.059  $\chi^2/\text{NDF}$ : 497657.9/12



# yield\_sam1\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 15.149+/-0.000  $\chi^2/\text{NDF}$ :5173758339.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 15.298+/-0.000  $\chi^2/\text{NDF}$ :1642043925.0/5

Left: 15.217+/-0.000  $\chi^2/\text{NDF}$ : 7254367968.3/12

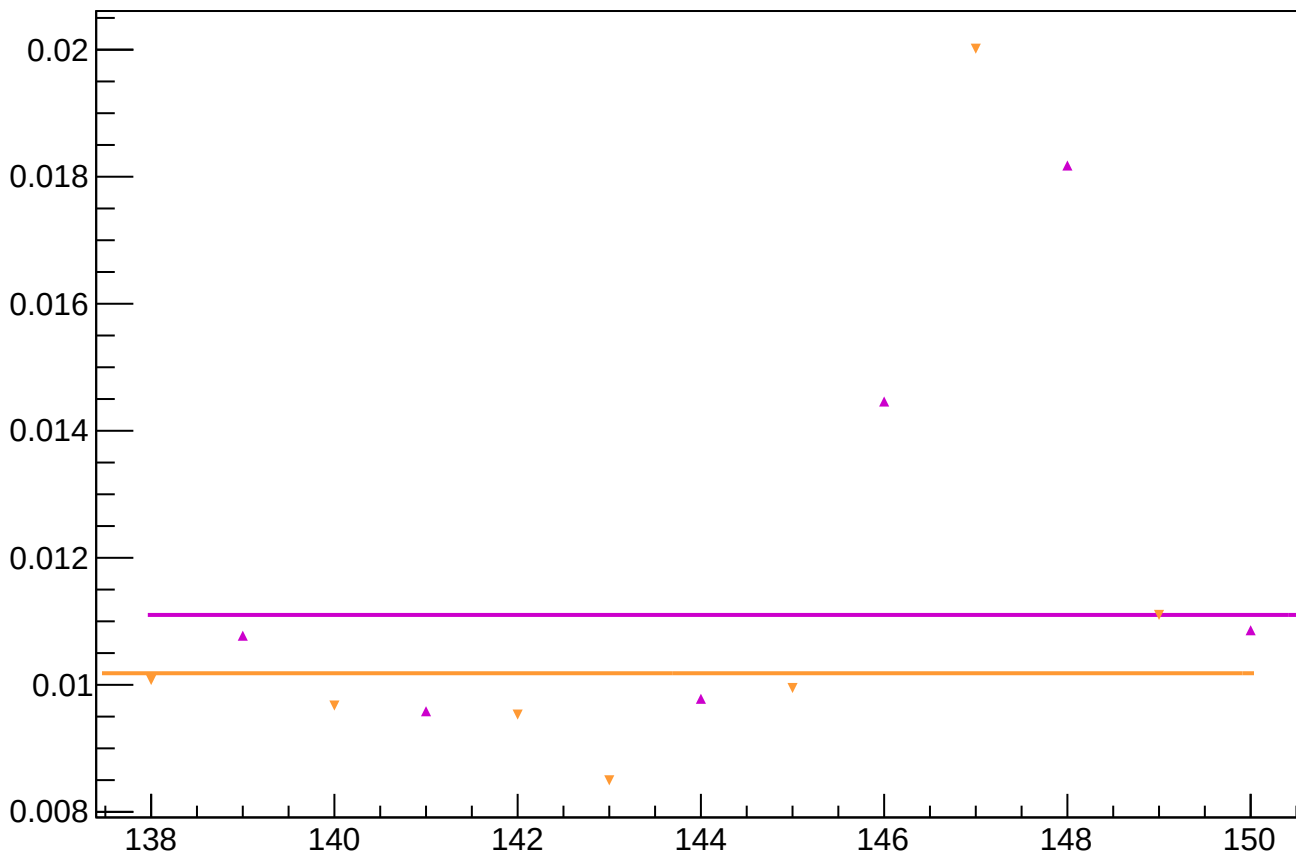
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 15.298+/-0.000  $\chi^2/\text{NDF}$ :1642043925.0/5

Out: 15.149+/-0.000  $\chi^2/\text{NDF}$ :5173758339.3/6

All: 15.217+/-0.000  $\chi^2/\text{NDF}$ : 7254367968.3/12

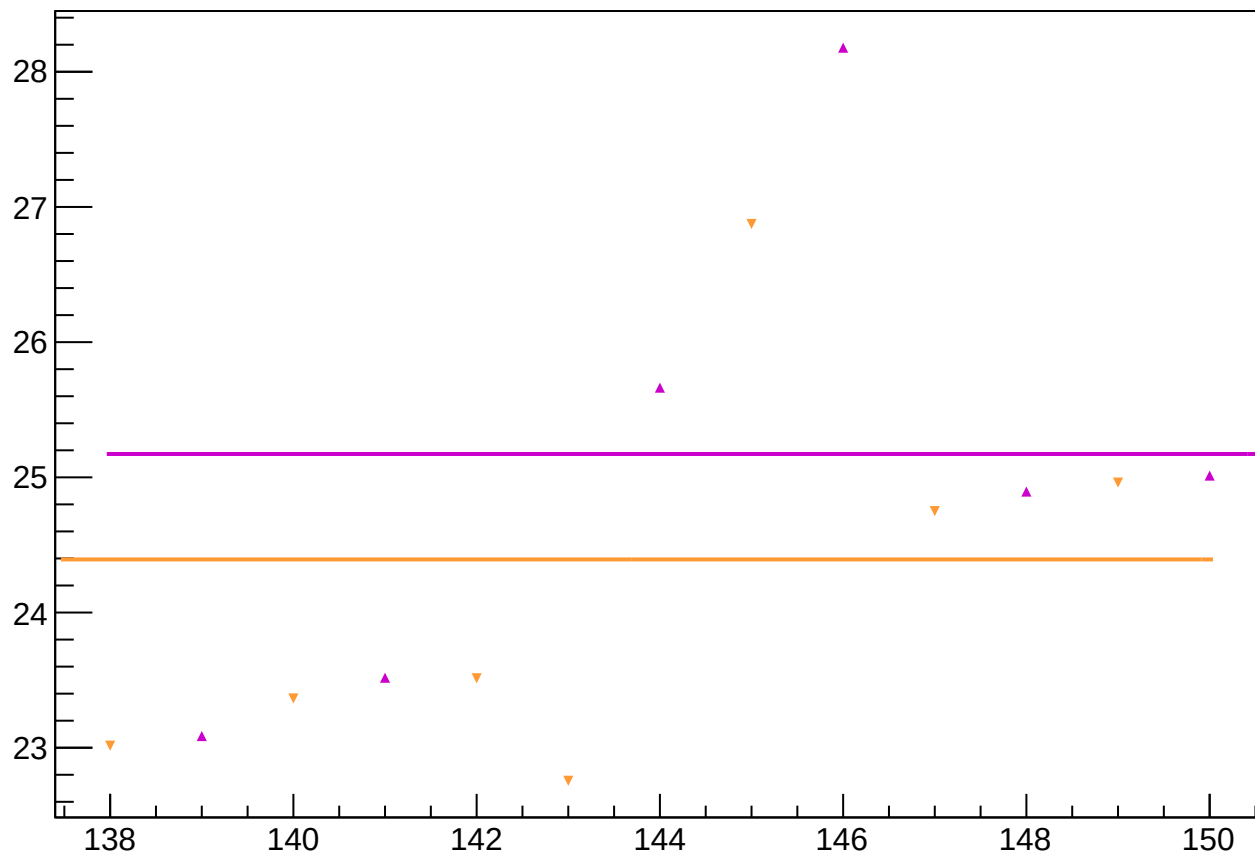
# yield\_sam1\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 429163.3/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 381617.2/5

Left: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 843941.5/12  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 381617.2/5  
Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 429163.3/6  
All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 843941.5/12

# yield\_sam2\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 24.393+/-0.000  $\chi^2/\text{NDF}$ :807159535.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 25.173+/-0.000  $\chi^2/\text{NDF}$ :689177543.1/5

Left: 24.755+/-0.000  $\chi^2/\text{NDF}$ : 1594014021.0/12

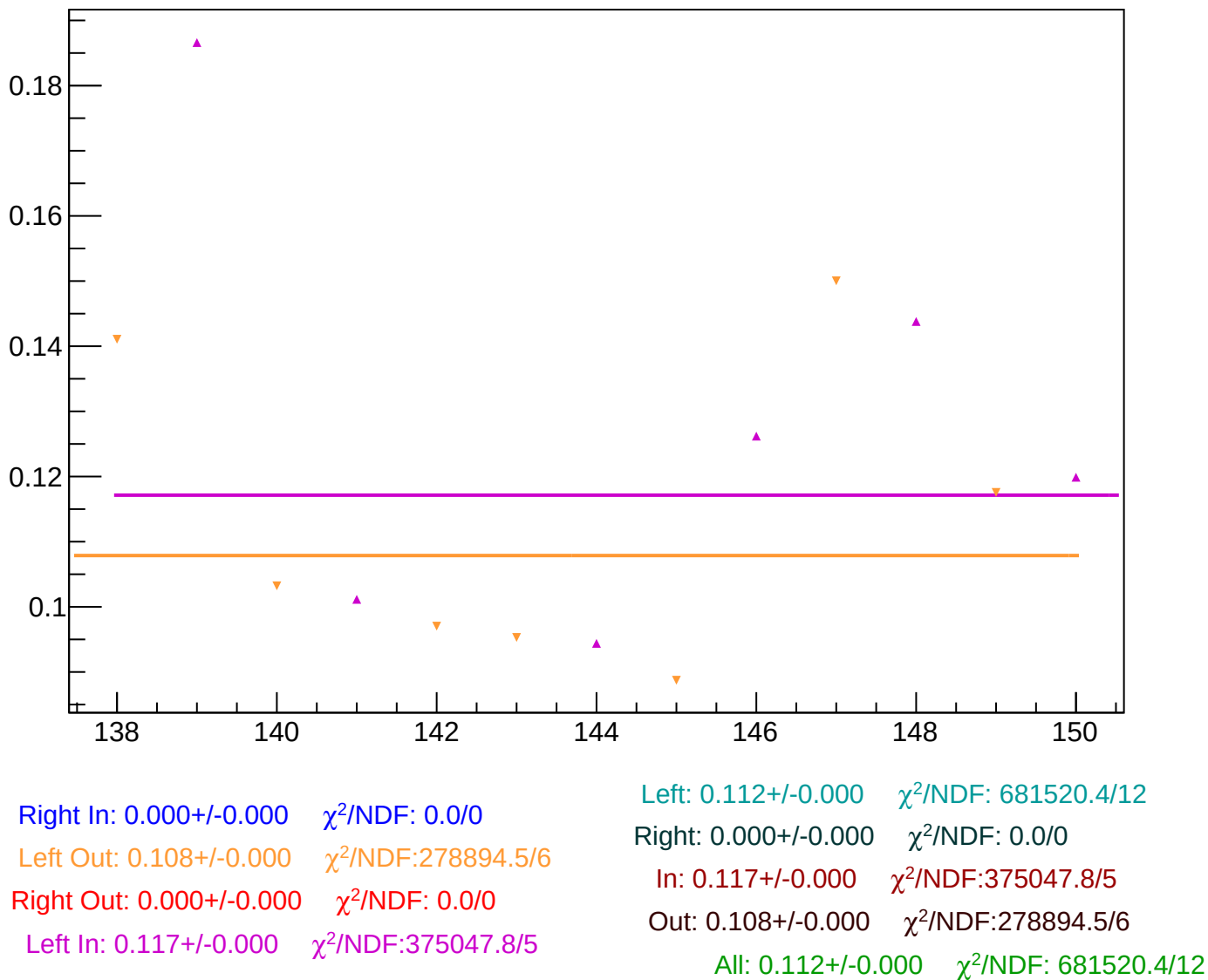
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 25.173+/-0.000  $\chi^2/\text{NDF}$ :689177543.1/5

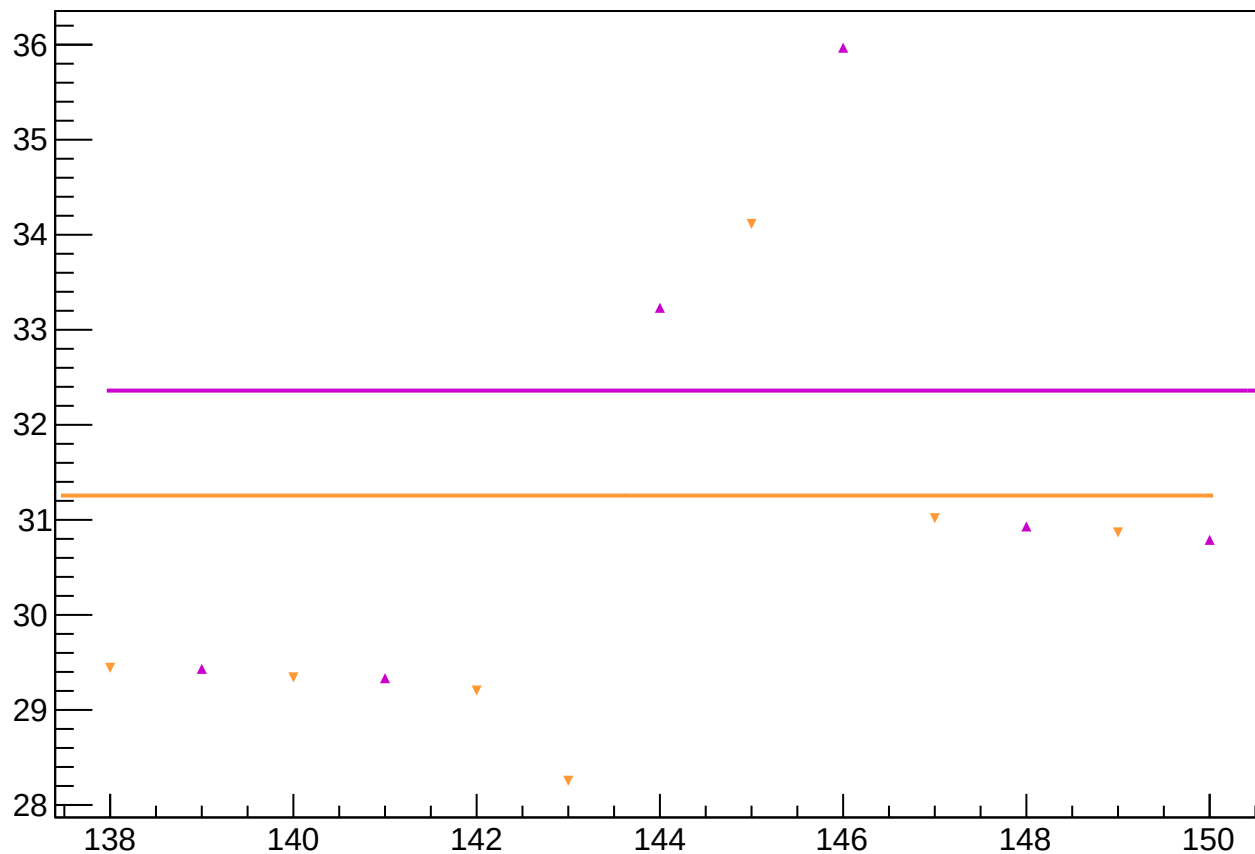
Out: 24.393+/-0.000  $\chi^2/\text{NDF}$ :807159535.1/6

All: 24.755+/-0.000  $\chi^2/\text{NDF}$ : 1594014021.0/12

# yield\_sam2\_rms vs Slug, Sign Corrected



# yield\_sam3\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 31.256+/-0.000  $\chi^2/\text{NDF}$ : 4143358234.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 32.360+/-0.000  $\chi^2/\text{NDF}$ : 4828461849.4/5

Left: 31.814+/-0.000  $\chi^2/\text{NDF}$ : 9503550965.2/12

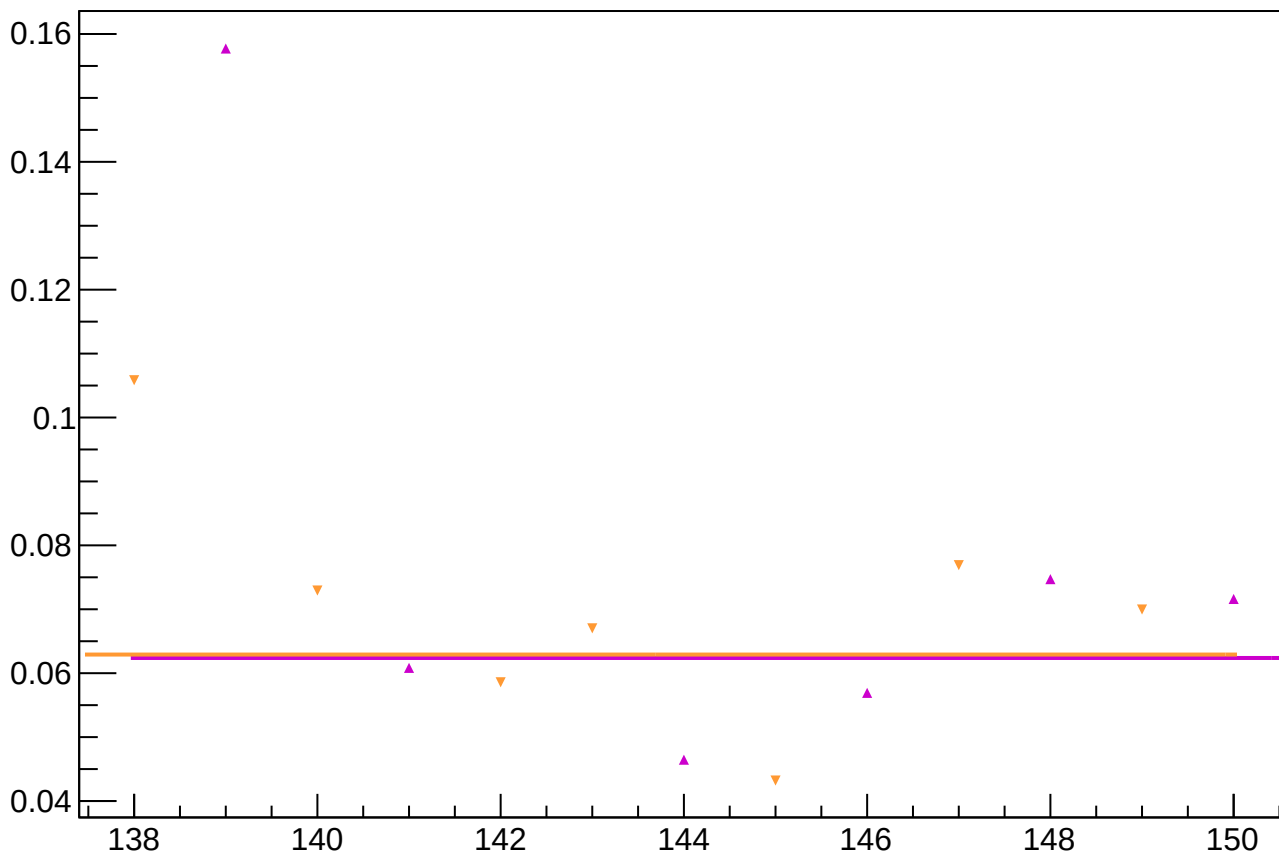
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 32.360+/-0.000  $\chi^2/\text{NDF}$ : 4828461849.4/5

Out: 31.256+/-0.000  $\chi^2/\text{NDF}$ : 4143358234.1/6

All: 31.814+/-0.000  $\chi^2/\text{NDF}$ : 9503550965.2/12

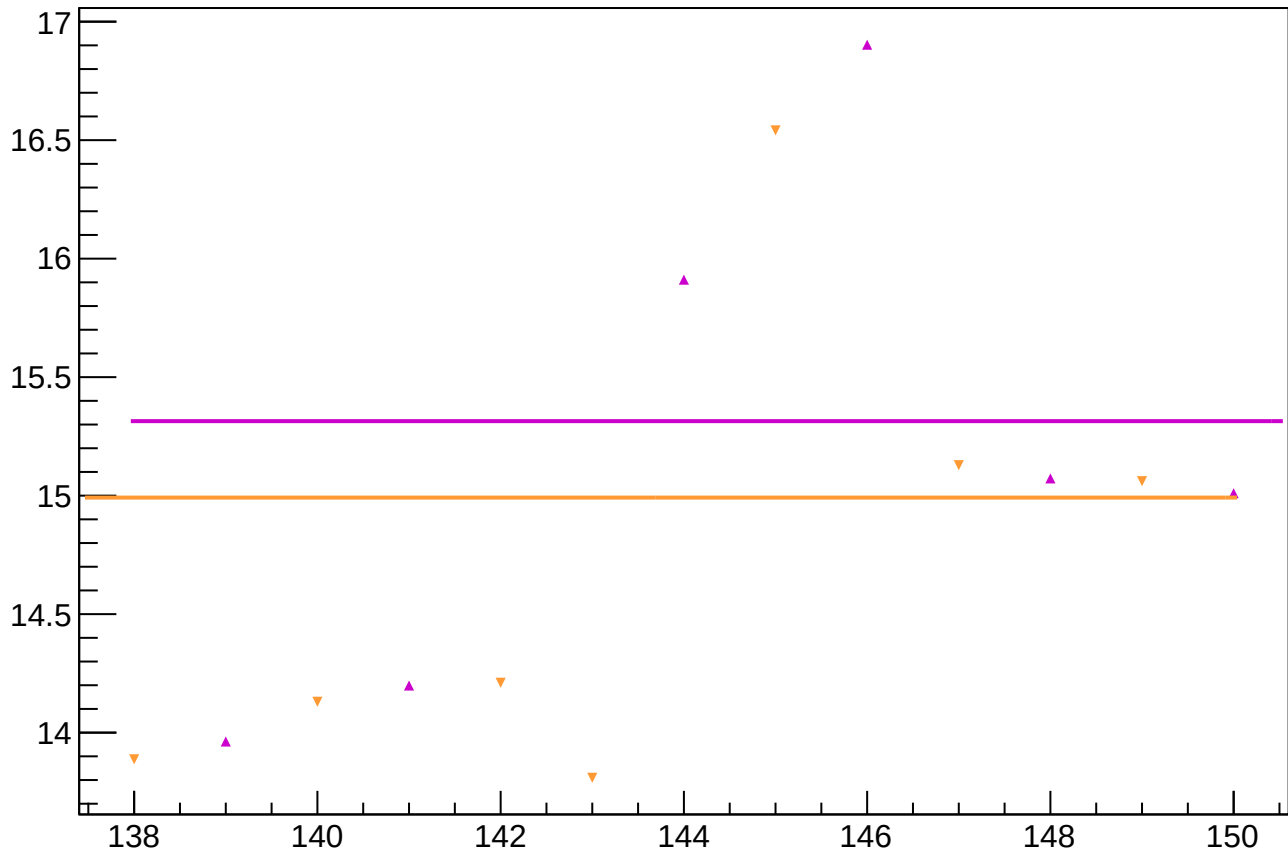
# yield\_sam3\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.063+/-0.000  $\chi^2/\text{NDF}$ : 490735.3/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.062+/-0.000  $\chi^2/\text{NDF}$ : 728057.9/5

Left: 0.063+/-0.000  $\chi^2/\text{NDF}$ : 1219043.4/12  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.062+/-0.000  $\chi^2/\text{NDF}$ : 728057.9/5  
Out: 0.063+/-0.000  $\chi^2/\text{NDF}$ : 490735.3/6  
All: 0.063+/-0.000  $\chi^2/\text{NDF}$ : 1219043.4/12

# yield\_sam4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.992+/-0.000  $\chi^2/\text{NDF}$ :942934712.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 15.314+/-0.000  $\chi^2/\text{NDF}$ :679146246.2/5

Left: 15.145+/-0.000  $\chi^2/\text{NDF}$ : 1666096725.8/12

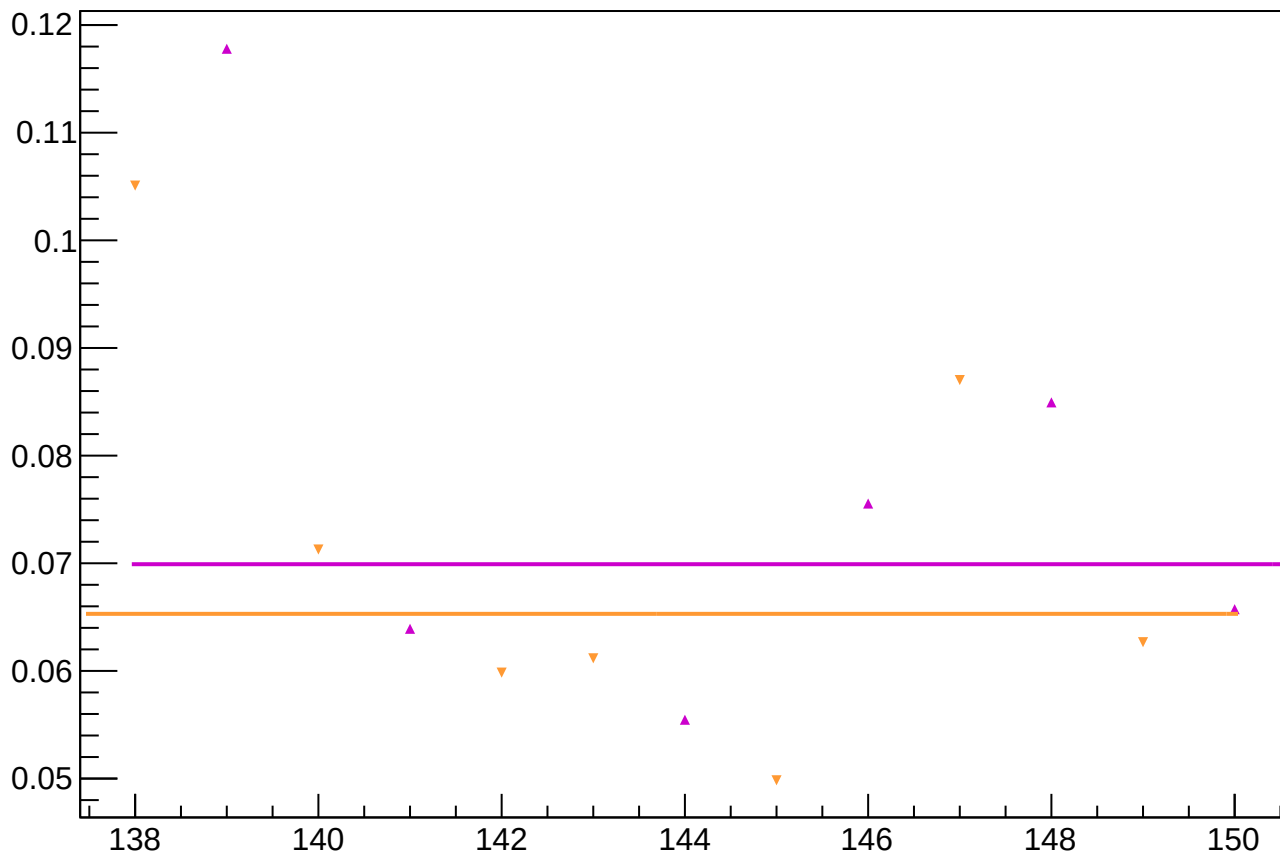
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 15.314+/-0.000  $\chi^2/\text{NDF}$ :679146246.2/5

Out: 14.992+/-0.000  $\chi^2/\text{NDF}$ :942934712.0/6

All: 15.145+/-0.000  $\chi^2/\text{NDF}$ : 1666096725.8/12

# yield\_sam4\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.065+/-0.000  $\chi^2/\text{NDF}$ : 403492.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 390401.9/5

Left: 0.067+/-0.000  $\chi^2/\text{NDF}$ : 811882.4/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

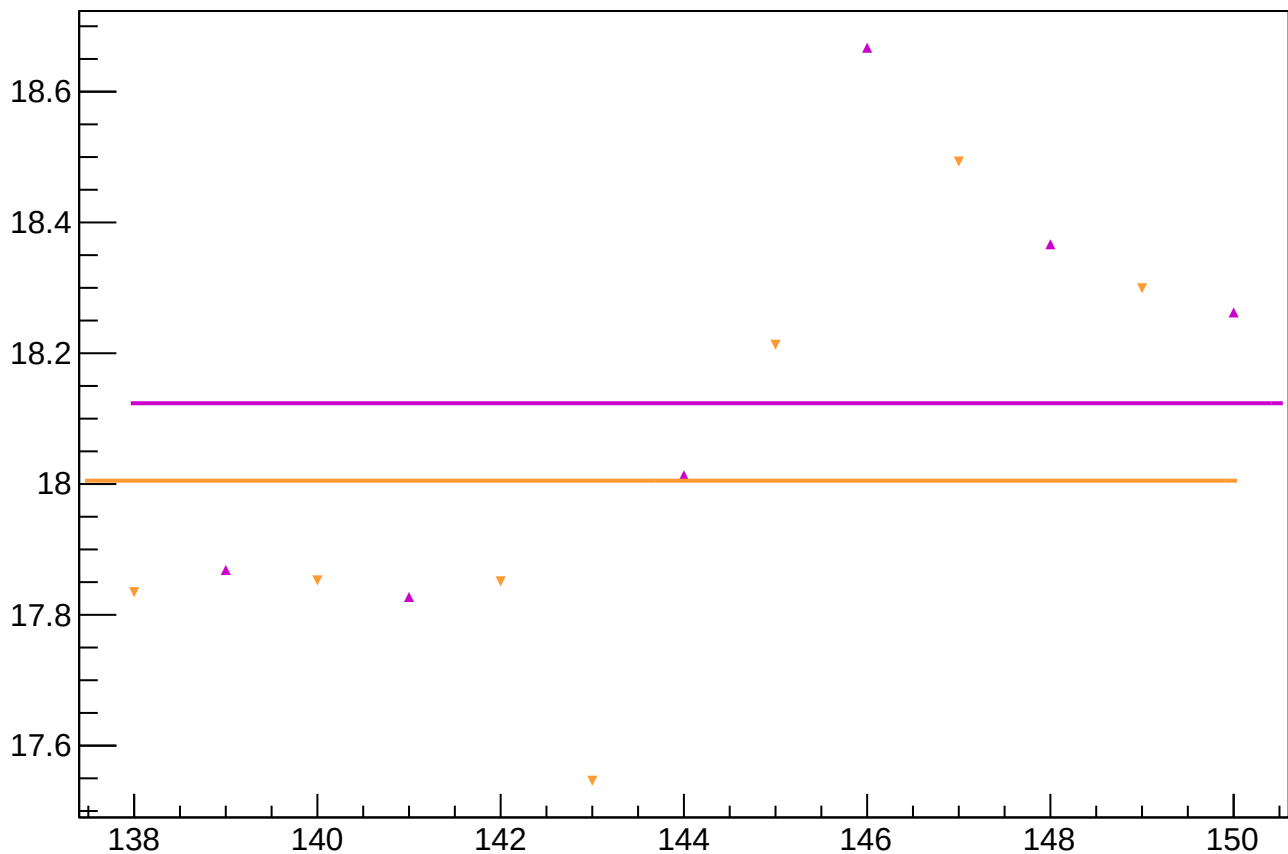
In: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 390401.9/5

Out: 0.065+/-0.000  $\chi^2/\text{NDF}$ : 403492.0/6

All: 0.067+/-0.000  $\chi^2/\text{NDF}$ : 811882.4/12



# yield\_sam5\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 18.005+/-0.000  $\chi^2/\text{NDF}$ : 369066726.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 18.124+/-0.000  $\chi^2/\text{NDF}$ : 296904851.9/5

Left: 18.062+/-0.000  $\chi^2/\text{NDF}$ : 695436476.8/12

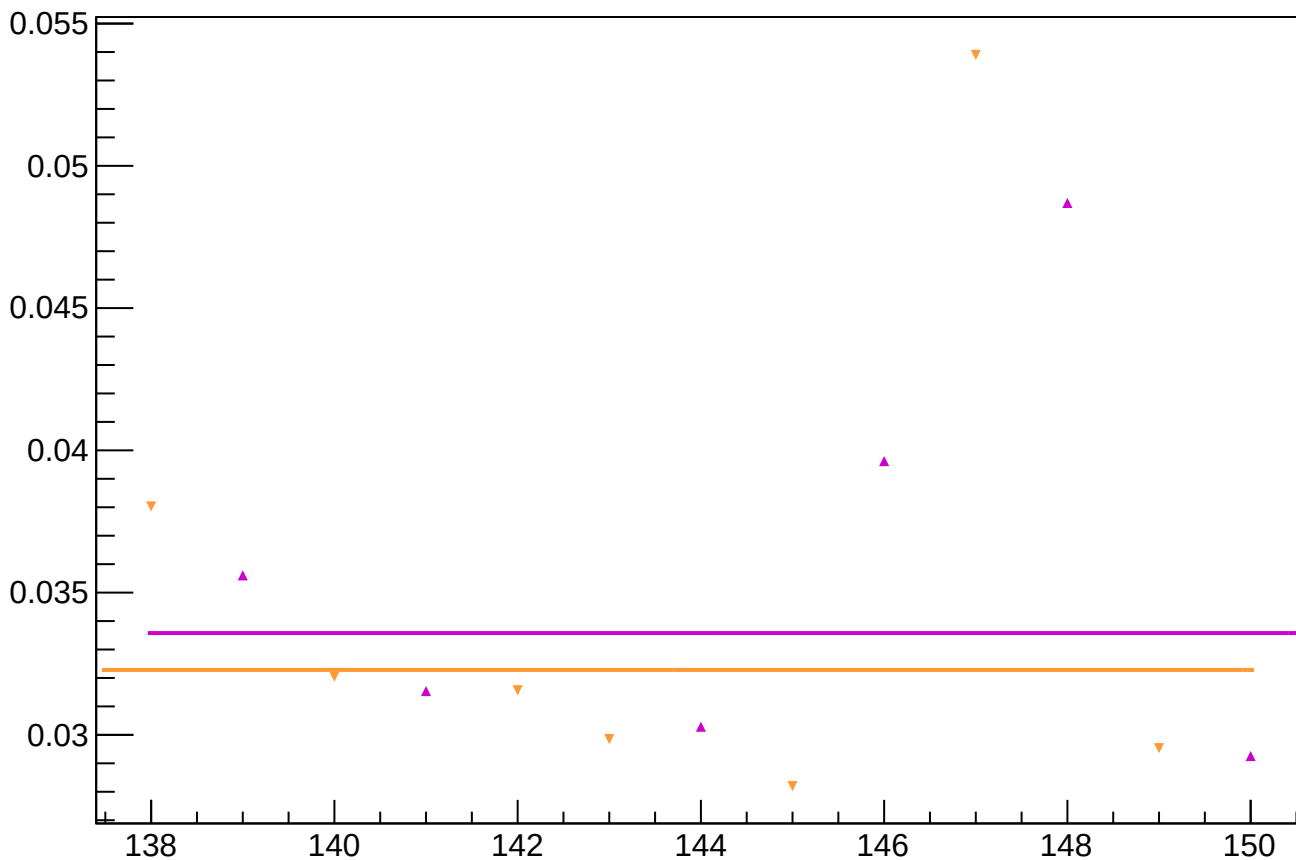
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 18.124+/-0.000  $\chi^2/\text{NDF}$ : 296904851.9/5

Out: 18.005+/-0.000  $\chi^2/\text{NDF}$ : 369066726.4/6

All: 18.062+/-0.000  $\chi^2/\text{NDF}$ : 695436476.8/12

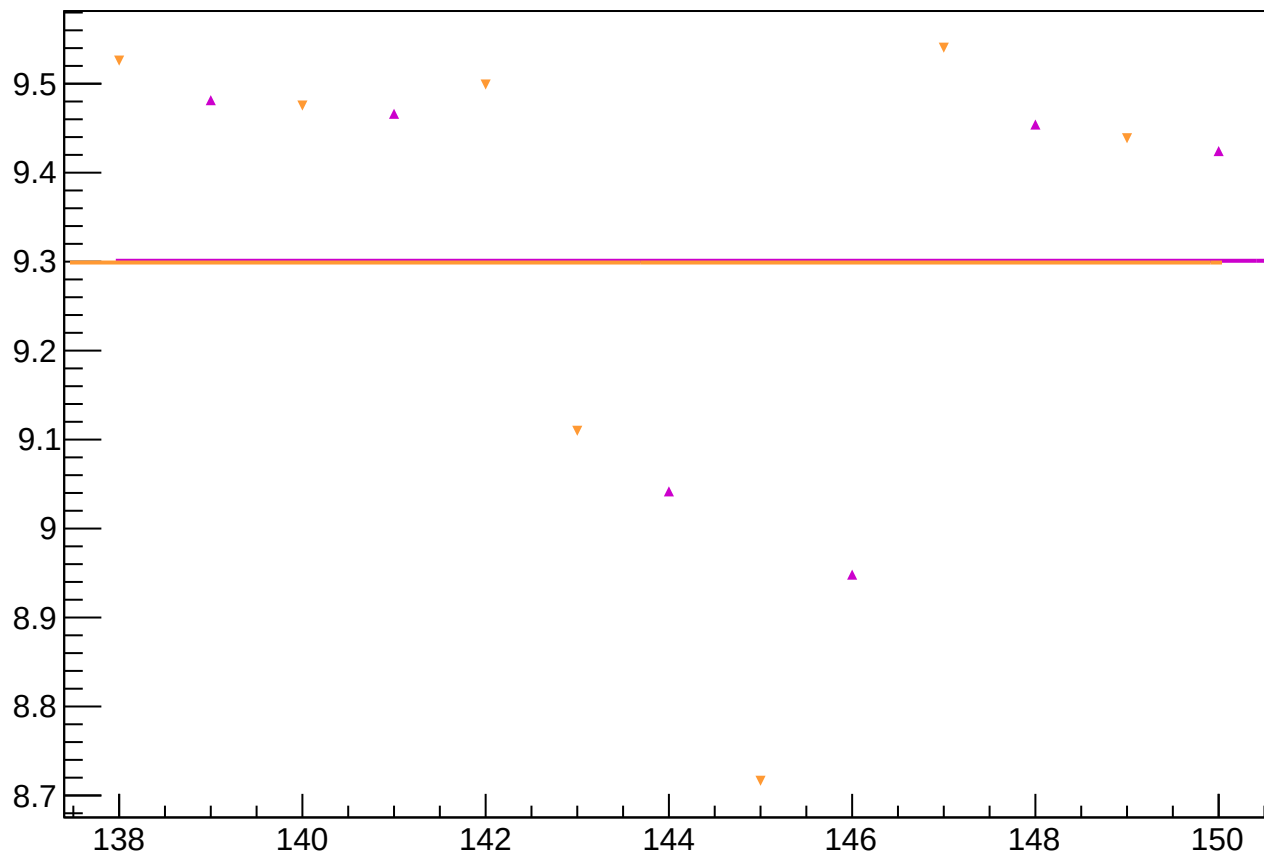
# yield\_sam5\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.032+/-0.000  $\chi^2/\text{NDF}$ :326173.1/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.034+/-0.000  $\chi^2/\text{NDF}$ :249319.3/5

Left: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 582550.1/12  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.034+/-0.000  $\chi^2/\text{NDF}$ :249319.3/5  
Out: 0.032+/-0.000  $\chi^2/\text{NDF}$ :326173.1/6  
All: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 582550.1/12

# yield\_sam6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 9.299+/-0.000  $\chi^2/\text{NDF}$ :985108960.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 9.301+/-0.000  $\chi^2/\text{NDF}$ :449081936.1/5

Left: 9.300+/-0.000  $\chi^2/\text{NDF}$ : 1434211952.1/12

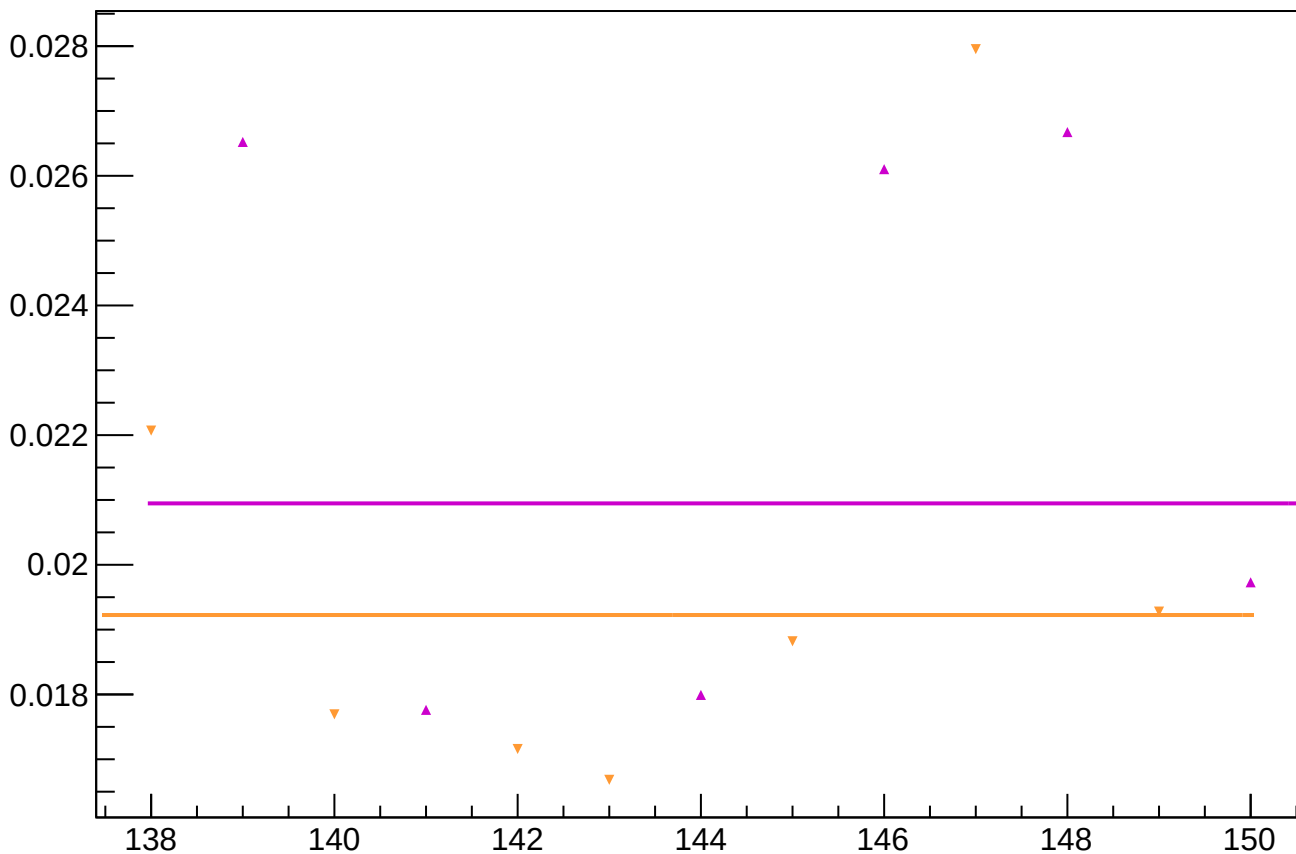
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9.301+/-0.000  $\chi^2/\text{NDF}$ :449081936.1/5

Out: 9.299+/-0.000  $\chi^2/\text{NDF}$ :985108960.3/6

All: 9.300+/-0.000  $\chi^2/\text{NDF}$ : 1434211952.1/12

# yield\_sam6\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ :217555.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.021+/-0.000  $\chi^2/\text{NDF}$ :286554.8/5

Left: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 536300.0/12

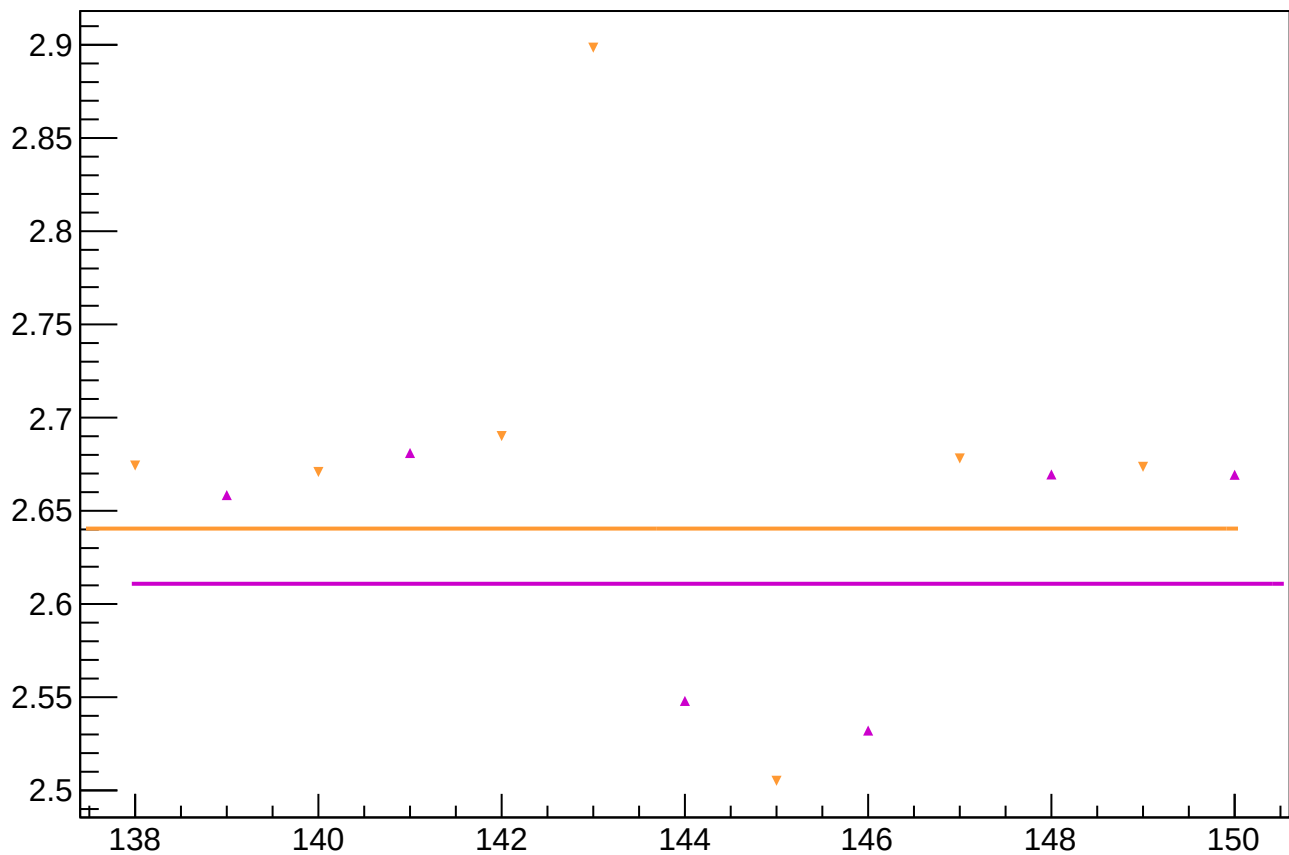
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.021+/-0.000  $\chi^2/\text{NDF}$ :286554.8/5

Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ :217555.1/6

All: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 536300.0/12

# yield\_sam7\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2.640+/-0.000  $\chi^2/\text{NDF}$ :11292474849.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.611+/-0.000  $\chi^2/\text{NDF}$ :3586360676.9/5

Left: 2.626+/-0.000  $\chi^2/\text{NDF}$ : 15241198211.6/12

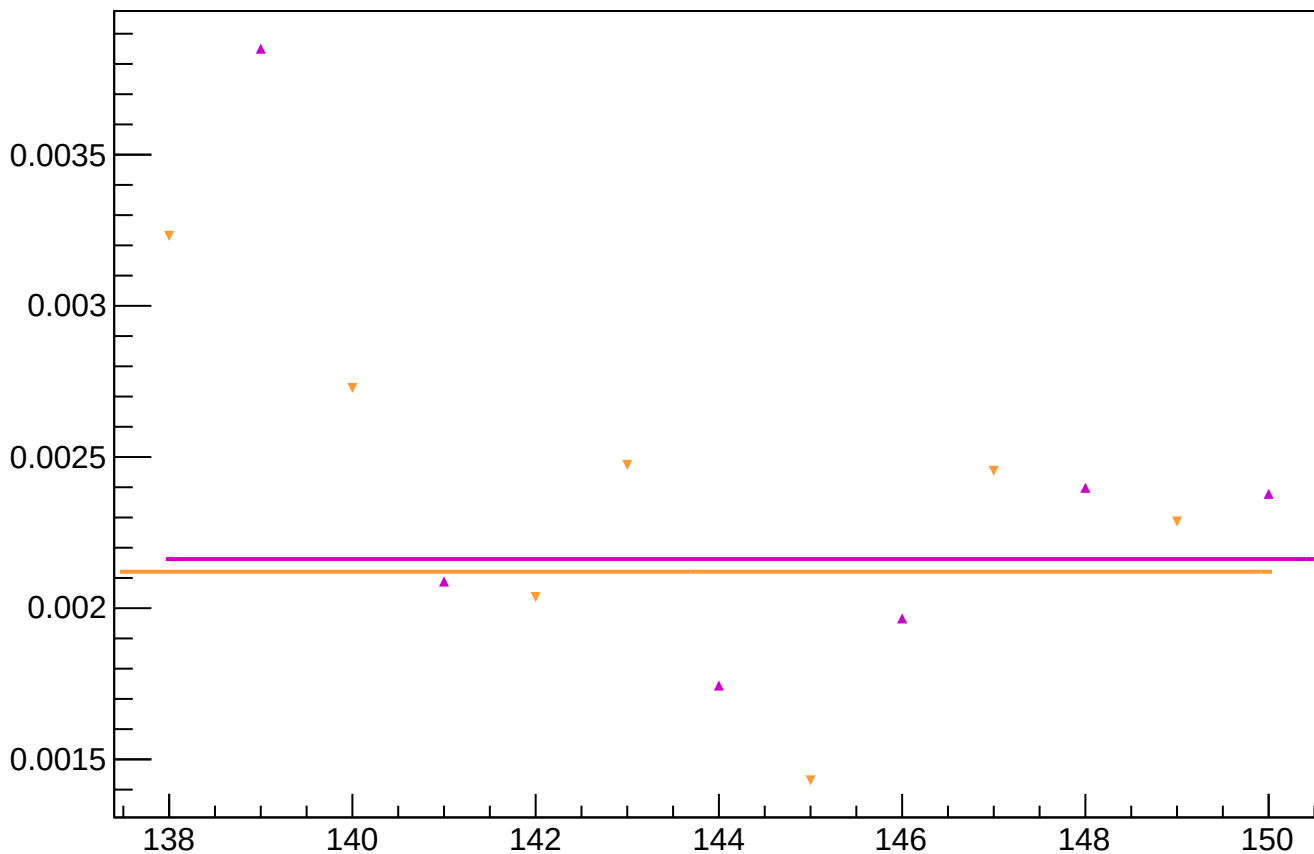
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.611+/-0.000  $\chi^2/\text{NDF}$ :3586360676.9/5

Out: 2.640+/-0.000  $\chi^2/\text{NDF}$ :11292474849.7/6

All: 2.626+/-0.000  $\chi^2/\text{NDF}$ : 15241198211.6/12

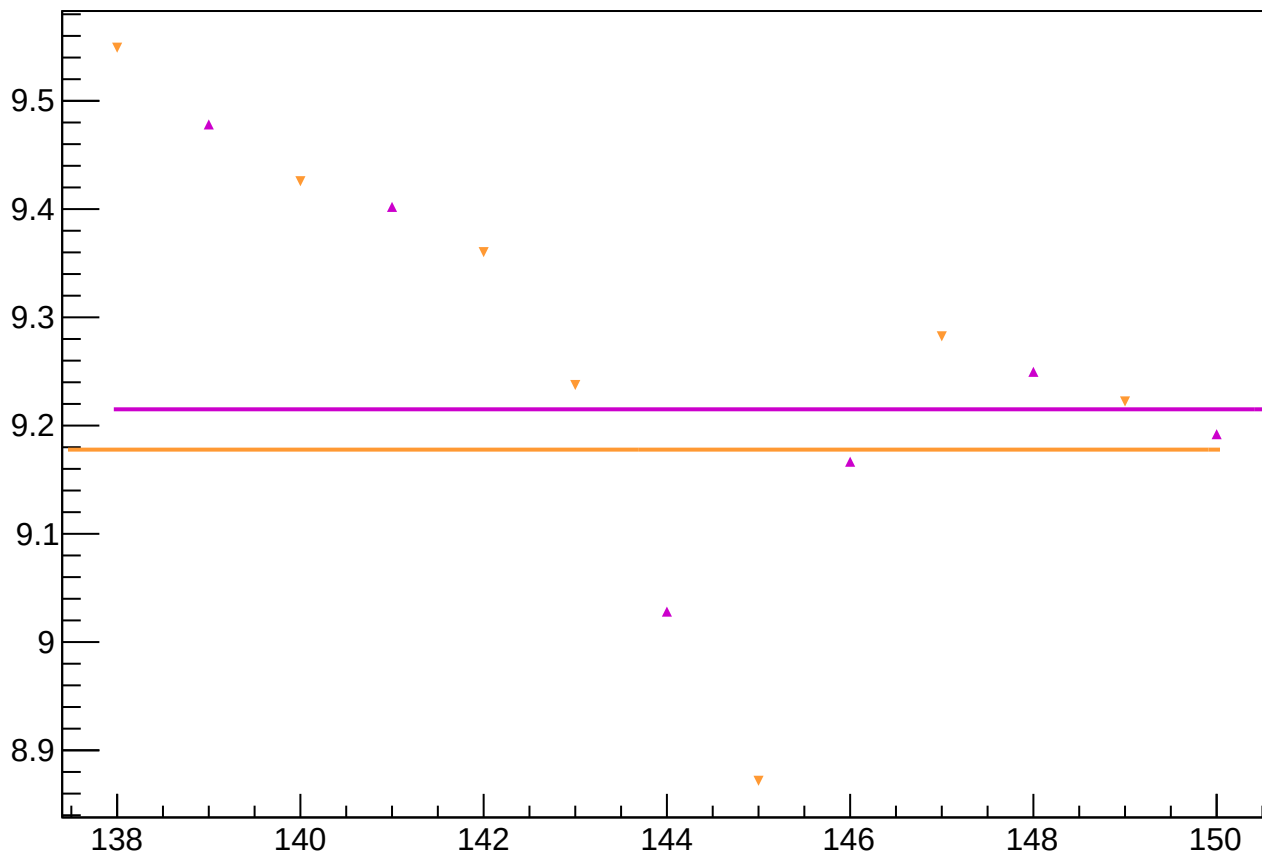
# yield\_sam7\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ :525937.9/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.002+/-0.000  $\chi^2/\text{NDF}$ :384892.1/5

Left: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 912265.8/12  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.002+/-0.000  $\chi^2/\text{NDF}$ :384892.1/5  
Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ :525937.9/6  
All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 912265.8/12

# yield\_sam8\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 9.178+/-0.000  $\chi^2/\text{NDF}$ :4569758587.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 9.215+/-0.000  $\chi^2/\text{NDF}$ :1871128101.7/5

Left: 9.195+/-0.000  $\chi^2/\text{NDF}$ : 6507120956.1/12

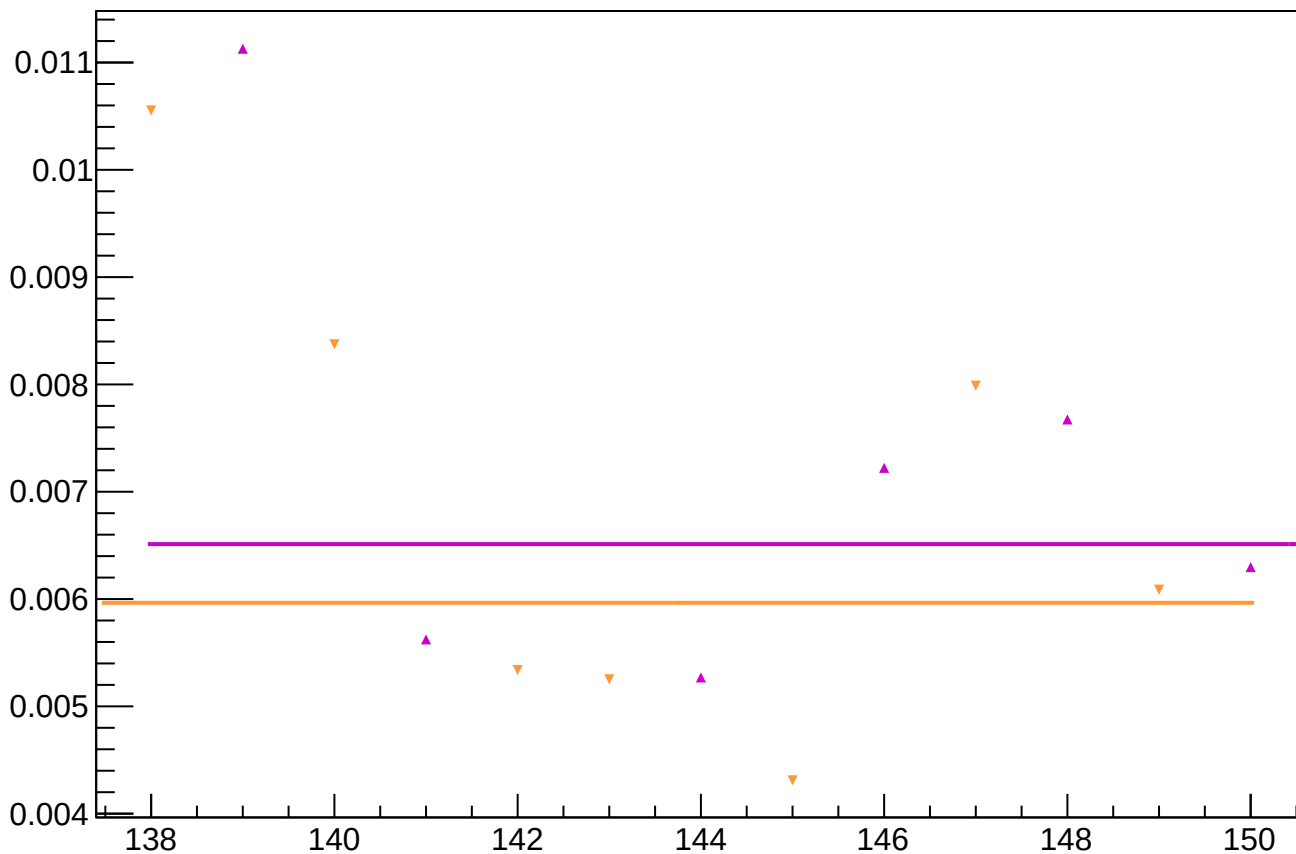
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9.215+/-0.000  $\chi^2/\text{NDF}$ :1871128101.7/5

Out: 9.178+/-0.000  $\chi^2/\text{NDF}$ :4569758587.9/6

All: 9.195+/-0.000  $\chi^2/\text{NDF}$ : 6507120956.1/12

# yield\_sam8\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 598680.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 380482.4/5

Left: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1007737.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

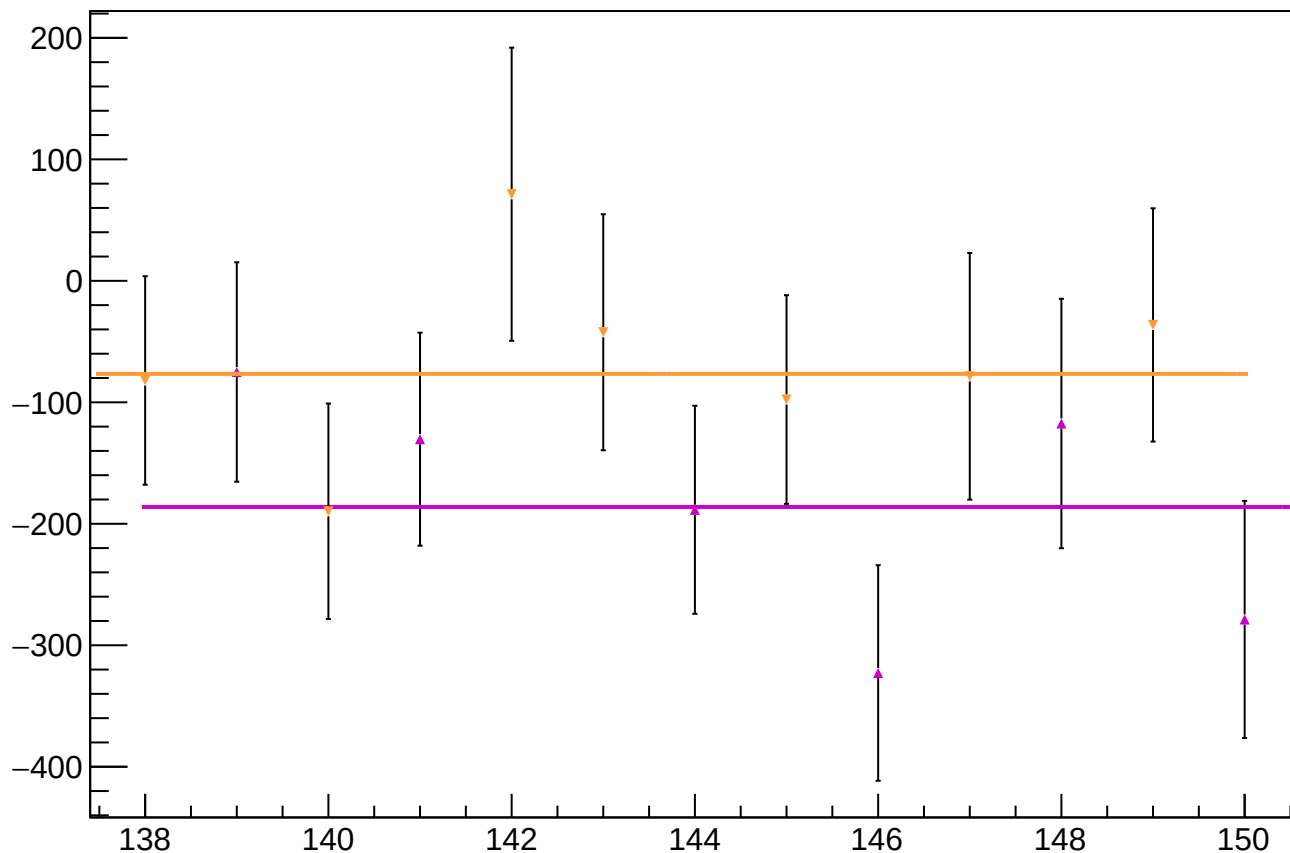
In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 380482.4/5

Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 598680.1/6

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1007737.0/12



# reg\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -76.592+/-35.841  $\chi^2/\text{NDF}$ : 3.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -186.134+/-37.371  $\chi^2/\text{NDF}$ : 5.6/5

Left: -129.075+/-25.868  $\chi^2/\text{NDF}$ : 13.6/12

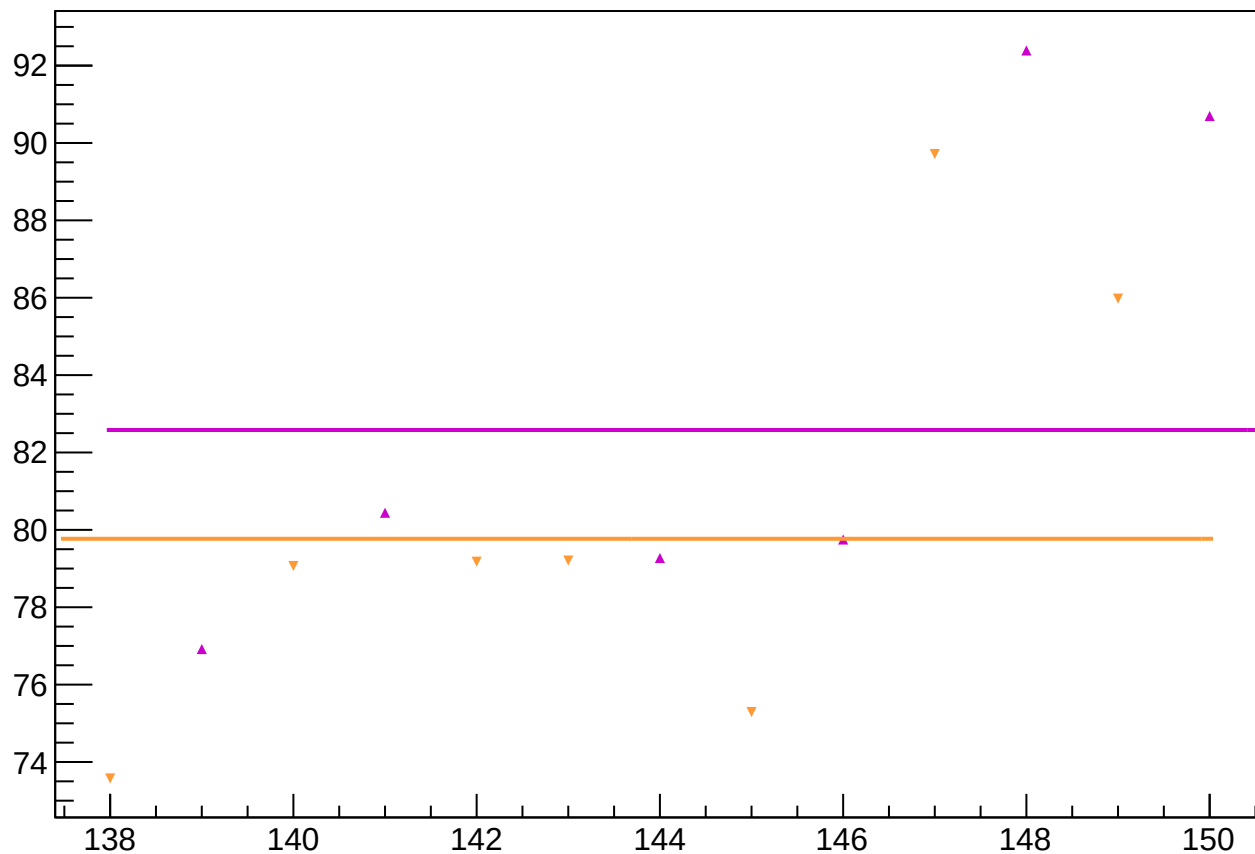
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -186.134+/-37.371  $\chi^2/\text{NDF}$ : 5.6/5

Out: -76.592+/-35.841  $\chi^2/\text{NDF}$ : 3.5/6

All: -129.075+/-25.868  $\chi^2/\text{NDF}$ : 13.6/12

# reg\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 79.770+/-0.025  $\chi^2/\text{NDF}$ :43647.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 82.581+/-0.026  $\chi^2/\text{NDF}$ :46173.2/5

Left: 81.117+/-0.018  $\chi^2/\text{NDF}$ : 95717.1/12

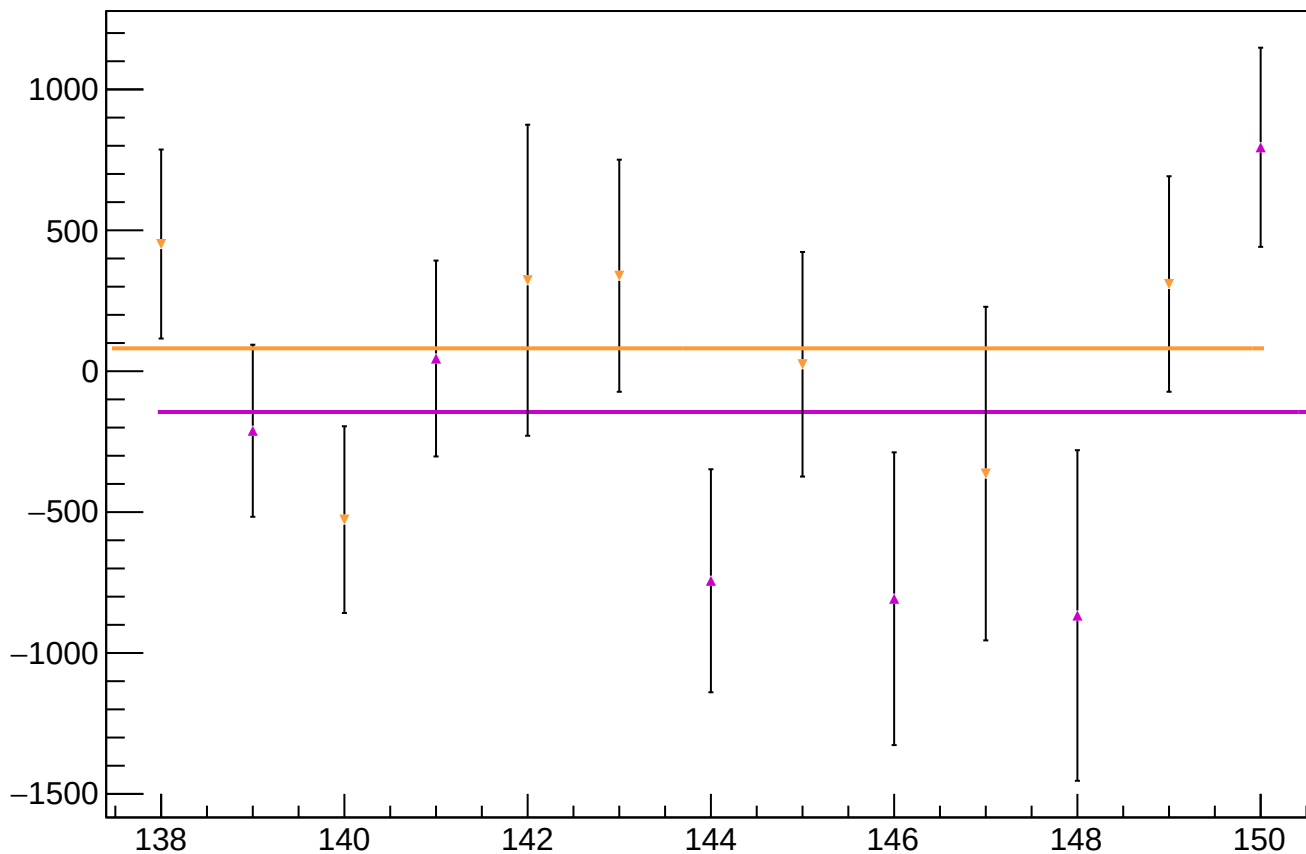
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 82.581+/-0.026  $\chi^2/\text{NDF}$ :46173.2/5

Out: 79.770+/-0.025  $\chi^2/\text{NDF}$ :43647.6/6

All: 81.117+/-0.018  $\chi^2/\text{NDF}$ : 95717.1/12

asym\_sam1\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 81.218+/-152.196  $\chi^2/\text{NDF}$ : 6.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -144.738+/-158.091  $\chi^2/\text{NDF}$ : 12.8/5

Left: -27.468+/-109.644  $\chi^2/\text{NDF}$ : 20.0/12

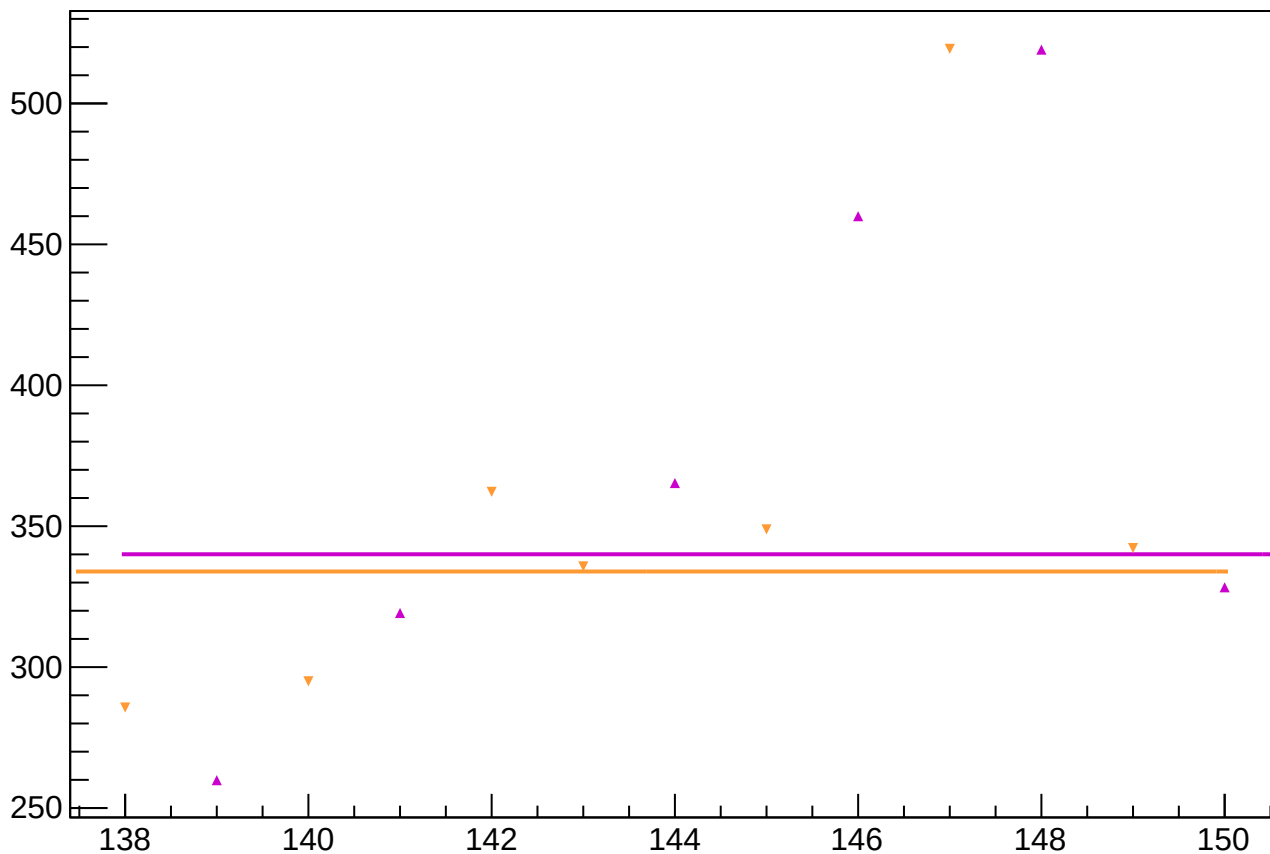
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -144.738+/-158.091  $\chi^2/\text{NDF}$ : 12.8/5

Out: 81.218+/-152.196  $\chi^2/\text{NDF}$ : 6.1/6

All: -27.468+/-109.644  $\chi^2/\text{NDF}$ : 20.0/12

asym\_sam1\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 333.925+/-0.108  $\chi^2/\text{NDF}$ : 274467.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 340.042+/-0.112  $\chi^2/\text{NDF}$ : 448443.3/5

Left: 336.867+/-0.078  $\chi^2/\text{NDF}$ : 724464.3/12

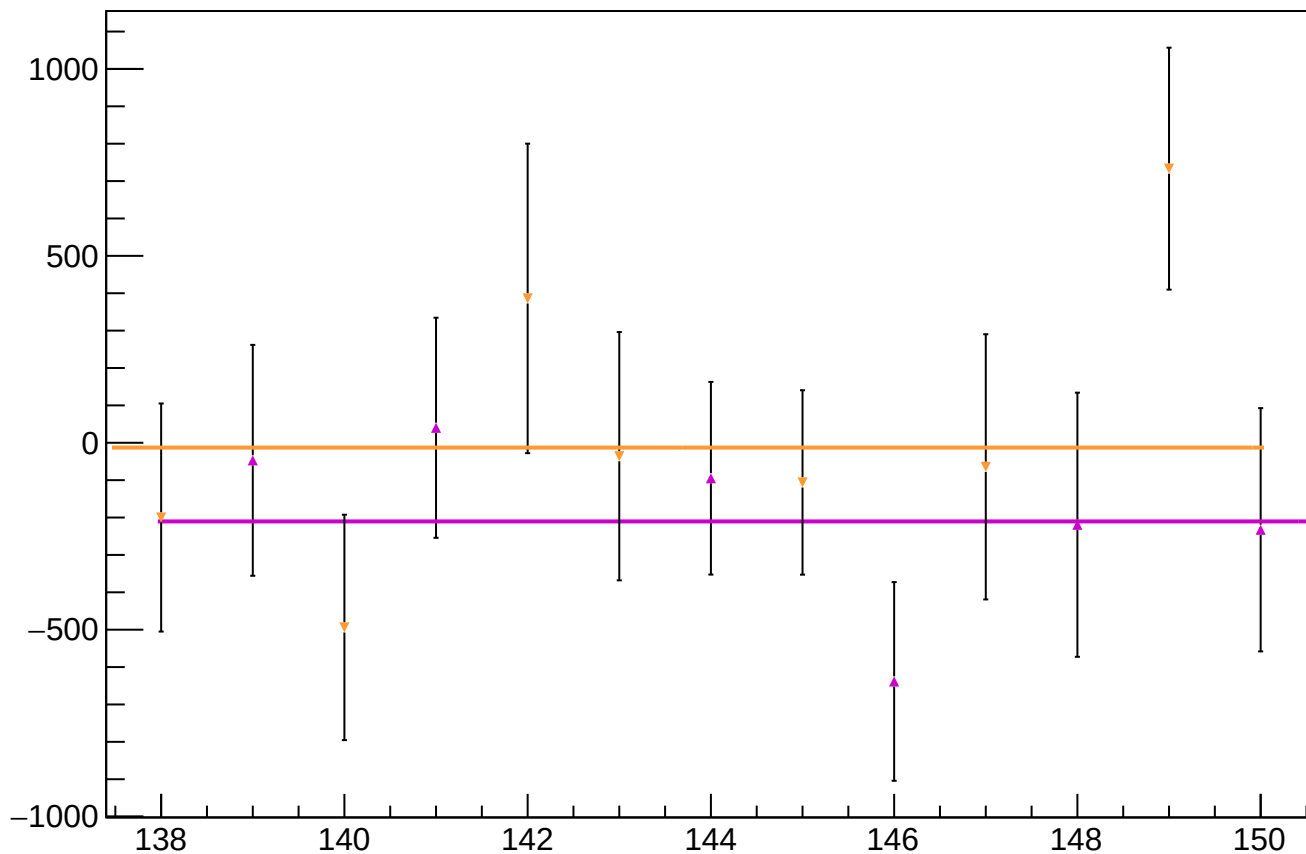
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 340.042+/-0.112  $\chi^2/\text{NDF}$ : 448443.3/5

Out: 333.925+/-0.108  $\chi^2/\text{NDF}$ : 274467.4/6

All: 336.867+/-0.078  $\chi^2/\text{NDF}$ : 724464.3/12

# reg\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -12.865+/-119.025  $\chi^2/\text{NDF}$ :9.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -210.380+/-120.645  $\chi^2/\text{NDF}$ :3.8/5

Left: -110.287+/-84.730  $\chi^2/\text{NDF}$ : 14.5/12

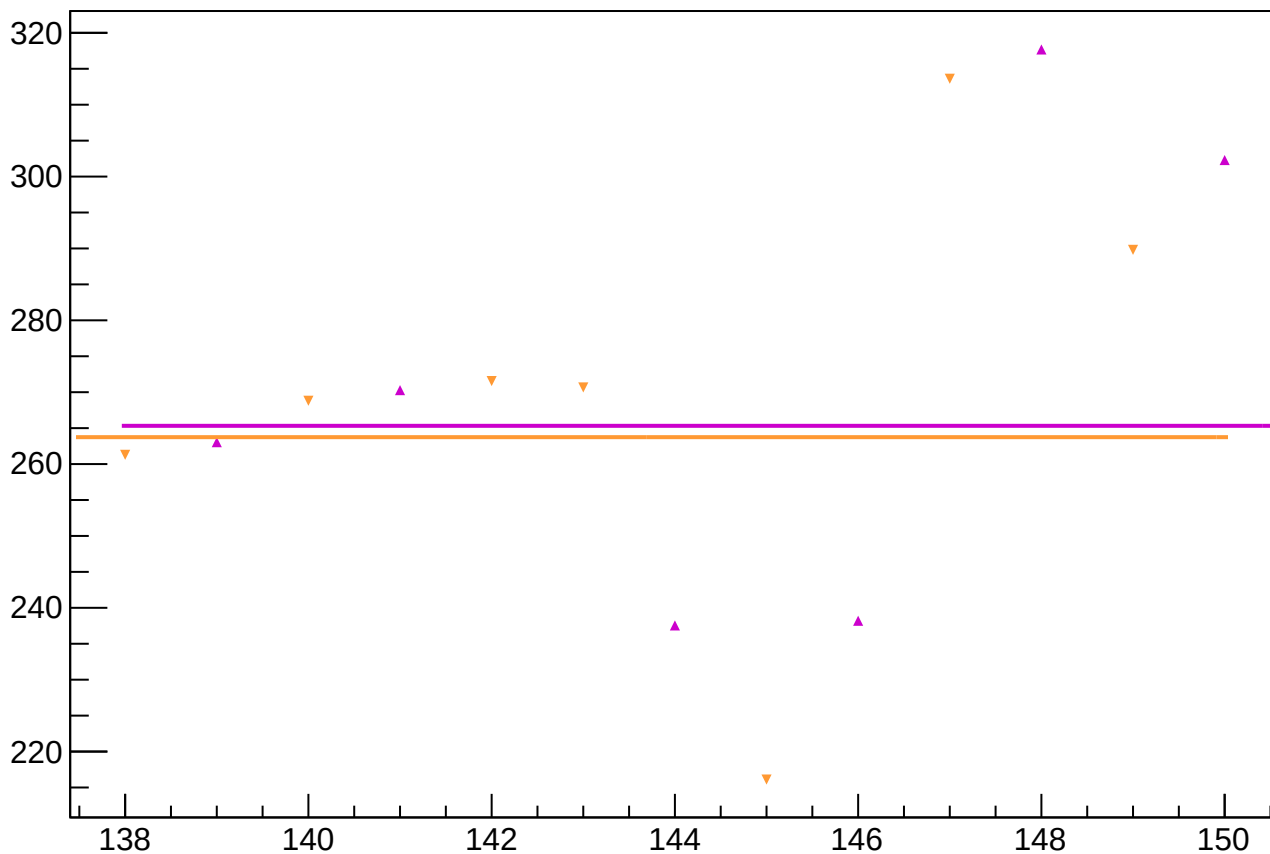
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -210.380+/-120.645  $\chi^2/\text{NDF}$ :3.8/5

Out: -12.865+/-119.025  $\chi^2/\text{NDF}$ :9.3/6

All: -110.287+/-84.730  $\chi^2/\text{NDF}$ : 14.5/12

# reg\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 263.743+/-0.084  $\chi^2/\text{NDF}$ :129374.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 265.322+/-0.085  $\chi^2/\text{NDF}$ :114510.6/5

Left: 264.522+/-0.060  $\chi^2/\text{NDF}$ : 244058.7/12

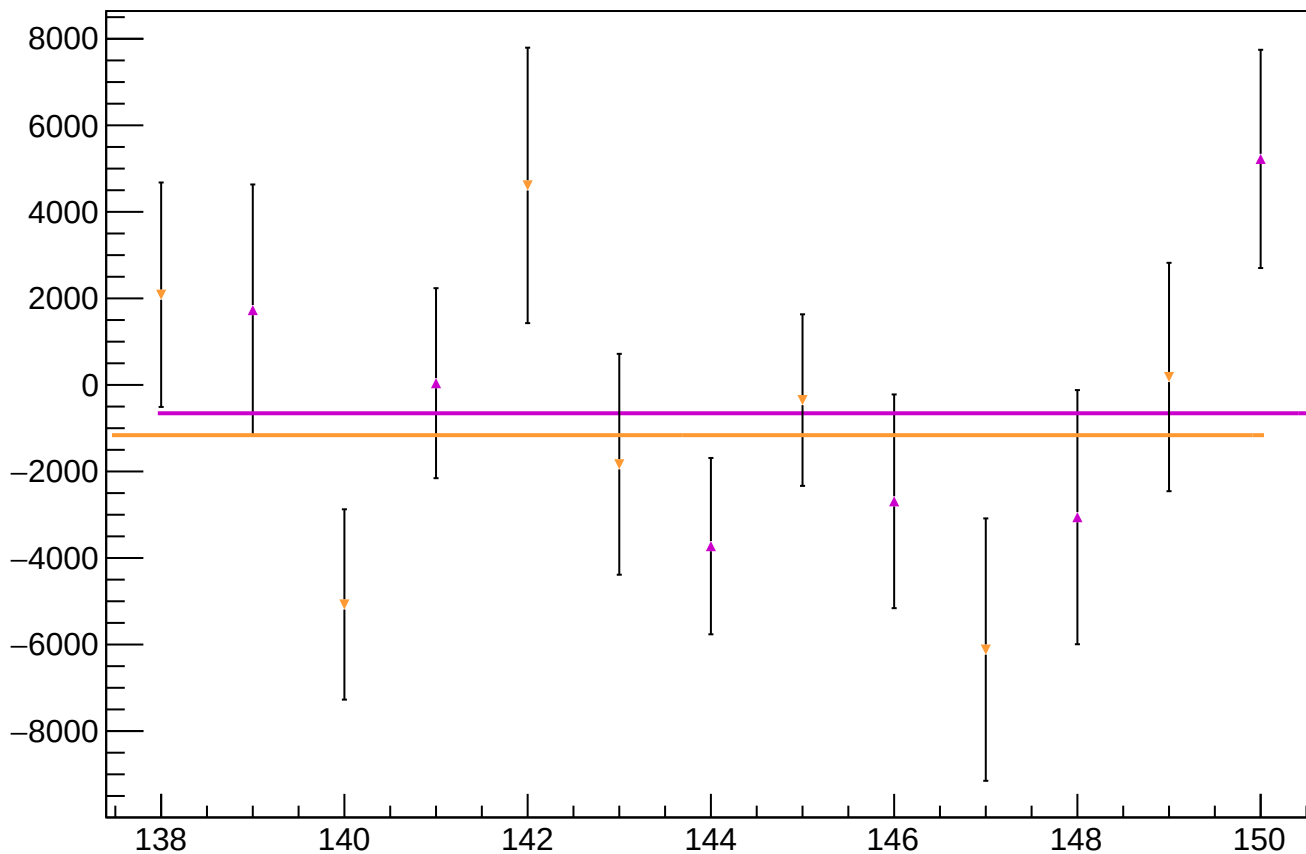
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 265.322+/-0.085  $\chi^2/\text{NDF}$ :114510.6/5

Out: 263.743+/-0.084  $\chi^2/\text{NDF}$ :129374.6/6

All: 264.522+/-0.060  $\chi^2/\text{NDF}$ : 244058.7/12

asym\_sam2\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1160.884+/-947.348  $\chi^2/\text{NDF}$ :11.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -654.850+/-998.060  $\chi^2/\text{NDF}$ :9.8/5

Left: -921.049+/-687.105  $\chi^2/\text{NDF}$ : 21.1/12

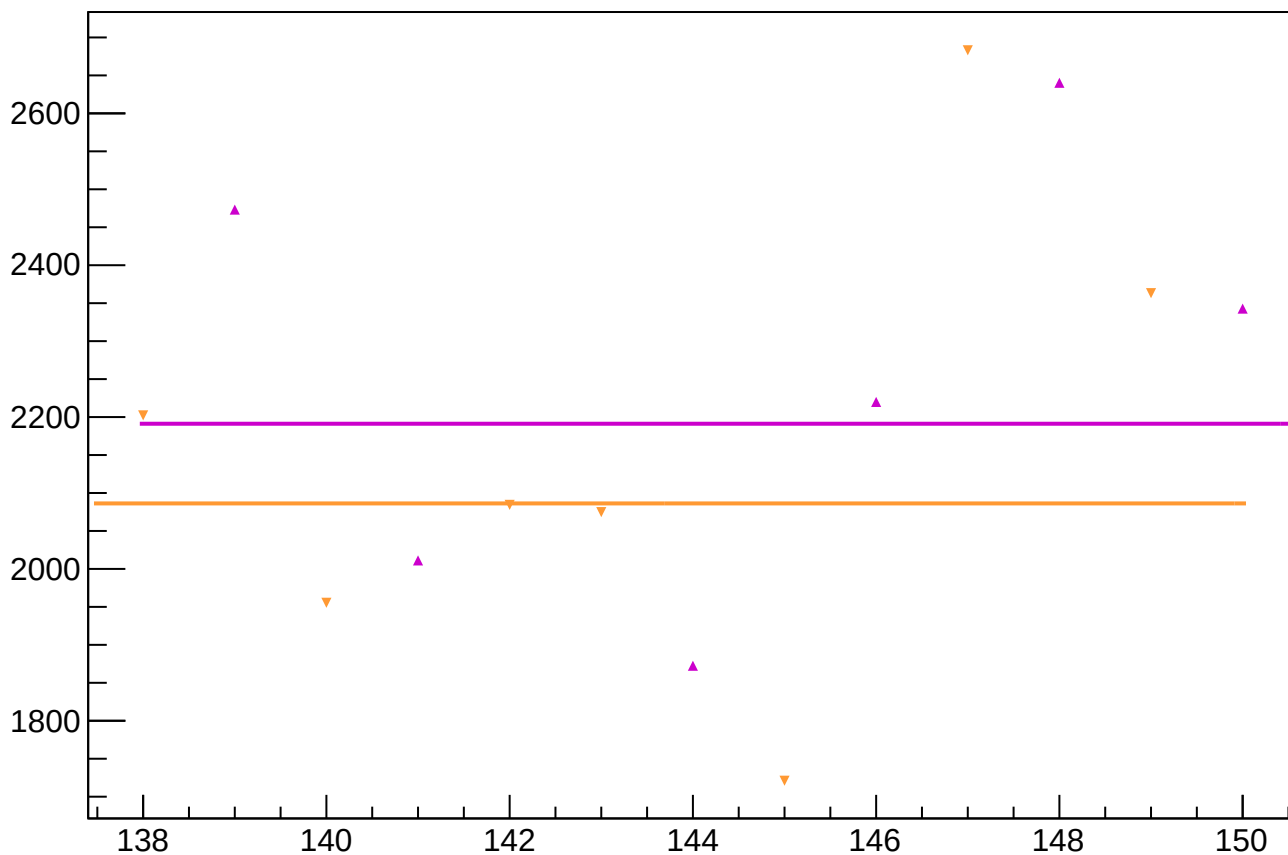
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -654.850+/-998.060  $\chi^2/\text{NDF}$ :9.8/5

Out: -1160.884+/-947.348  $\chi^2/\text{NDF}$ :11.2/6

All: -921.049+/-687.105  $\chi^2/\text{NDF}$ : 21.1/12

# asym\_sam2\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2086.260+/-0.670  $\chi^2/\text{NDF}$ :178488.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2191.212+/-0.706  $\chi^2/\text{NDF}$ :135503.2/5

Left: 2136.002+/-0.486  $\chi^2/\text{NDF}$ : 325625.1/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

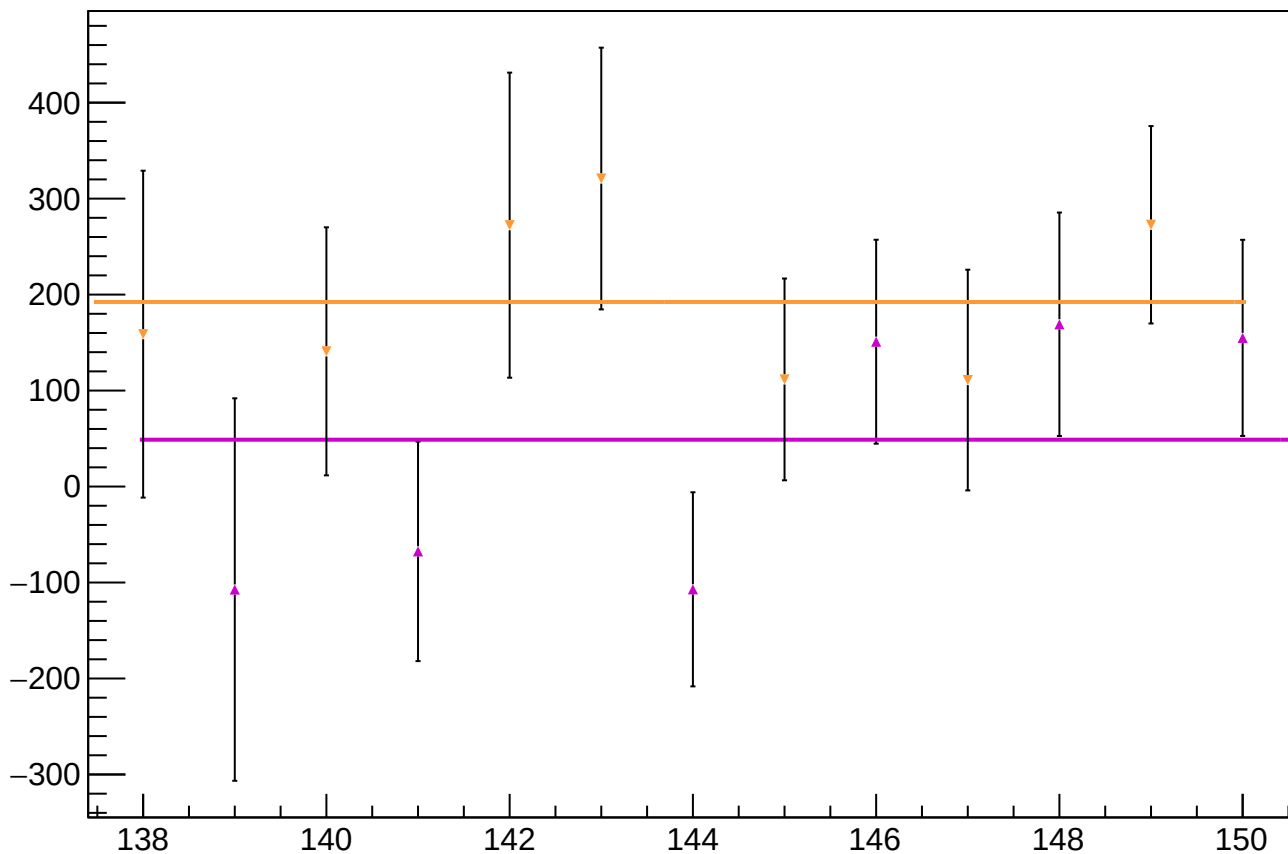
In: 2191.212+/-0.706  $\chi^2/\text{NDF}$ :135503.2/5

Out: 2086.260+/-0.670  $\chi^2/\text{NDF}$ :178488.1/6

All: 2136.002+/-0.486  $\chi^2/\text{NDF}$ : 325625.1/12



# reg\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 192.313+/-47.223  $\chi^2/\text{NDF}$ : 3.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 48.814+/-46.748  $\chi^2/\text{NDF}$ : 7.1/5

Left: 119.838+/-33.222  $\chi^2/\text{NDF}$ : 14.8/12

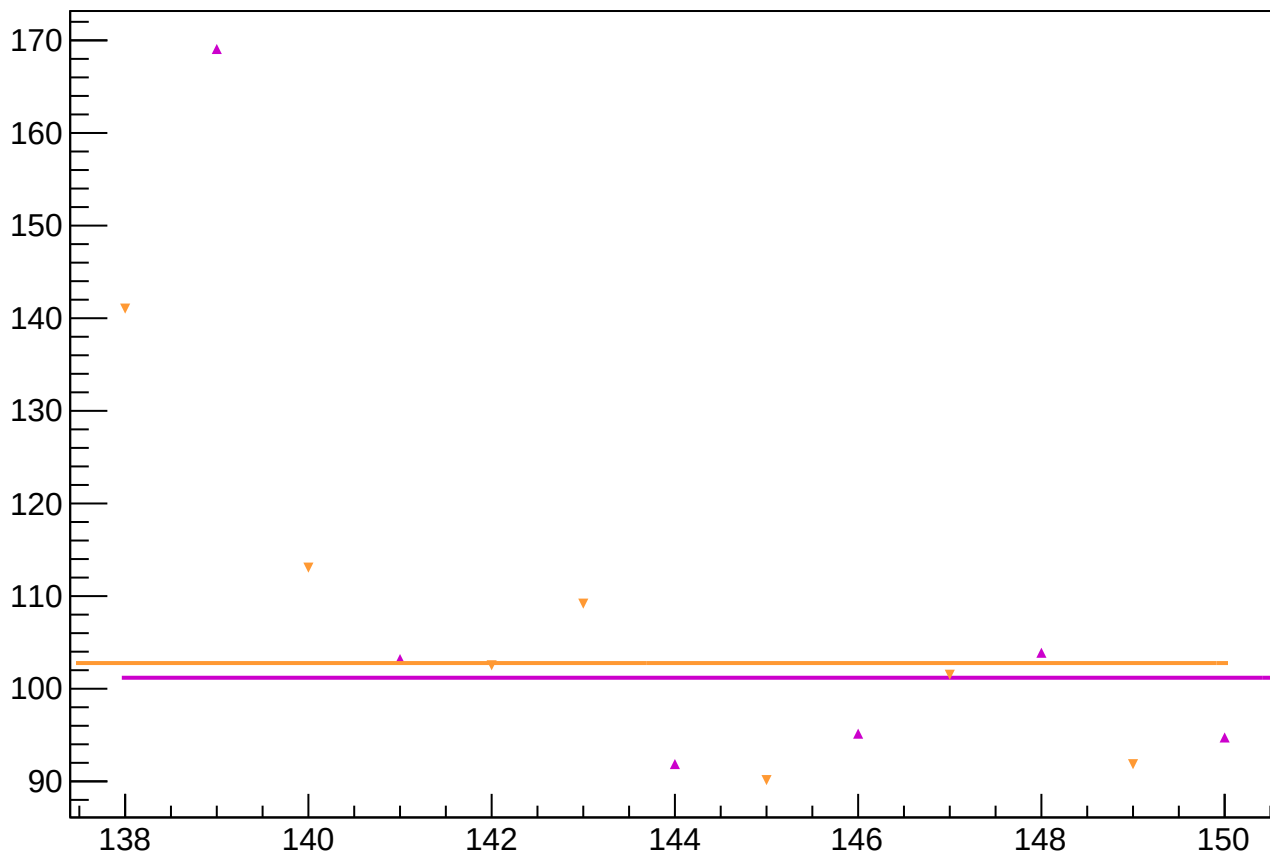
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 48.814+/-46.748  $\chi^2/\text{NDF}$ : 7.1/5

Out: 192.313+/-47.223  $\chi^2/\text{NDF}$ : 3.0/6

All: 119.838+/-33.222  $\chi^2/\text{NDF}$ : 14.8/12

# reg\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 102.772+/-0.033  $\chi^2/\text{NDF}$ :169815.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 101.186+/-0.033  $\chi^2/\text{NDF}$ :265188.7/5

Left: 101.971+/-0.023  $\chi^2/\text{NDF}$ : 436144.0/12

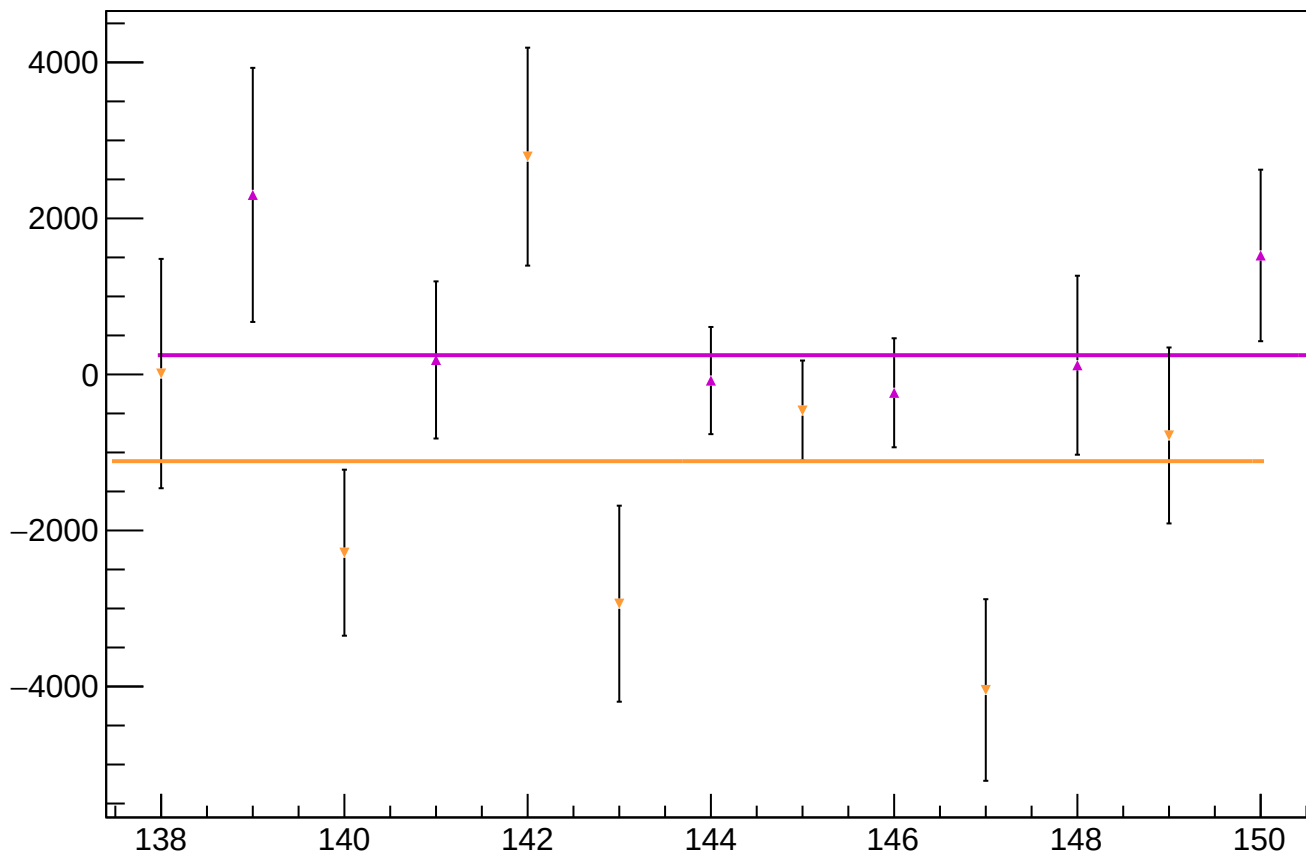
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 101.186+/-0.033  $\chi^2/\text{NDF}$ :265188.7/5

Out: 102.772+/-0.033  $\chi^2/\text{NDF}$ :169815.3/6

All: 101.971+/-0.023  $\chi^2/\text{NDF}$ : 436144.0/12

asym\_sam3\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1111.802+/-393.770  $\chi^2/\text{NDF}$ :19.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 246.701+/-374.802  $\chi^2/\text{NDF}$ :3.7/5

Left: -399.043+/-271.483  $\chi^2/\text{NDF}$ : 29.1/12

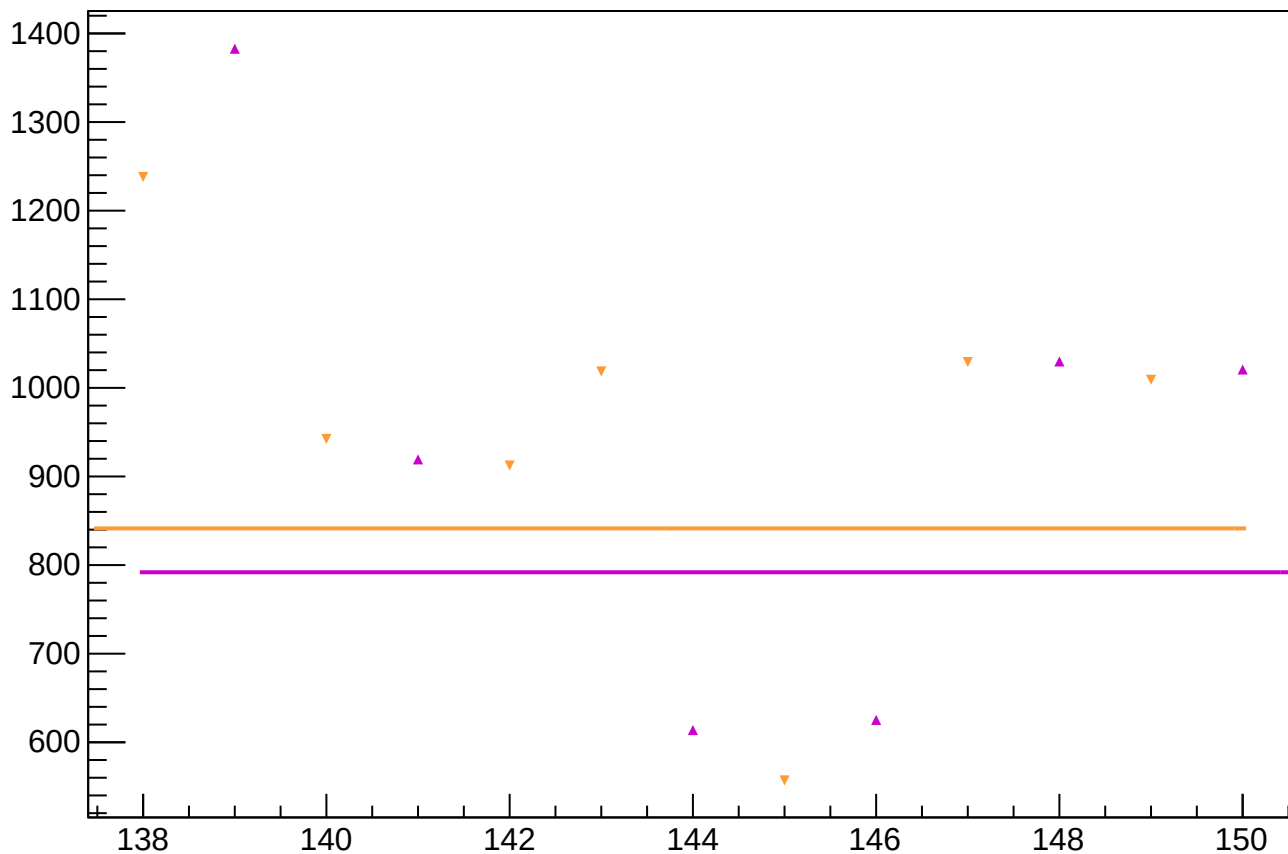
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 246.701+/-374.802  $\chi^2/\text{NDF}$ :3.7/5

Out: -1111.802+/-393.770  $\chi^2/\text{NDF}$ :19.2/6

All: -399.043+/-271.483  $\chi^2/\text{NDF}$ : 29.1/12

asym\_sam3\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 841.393+/-0.278  $\chi^2/\text{NDF}$ : 698410.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 791.899+/-0.265  $\chi^2/\text{NDF}$ : 716207.0/5

Left: 815.425+/-0.192  $\chi^2/\text{NDF}$ : 1431195.3/12

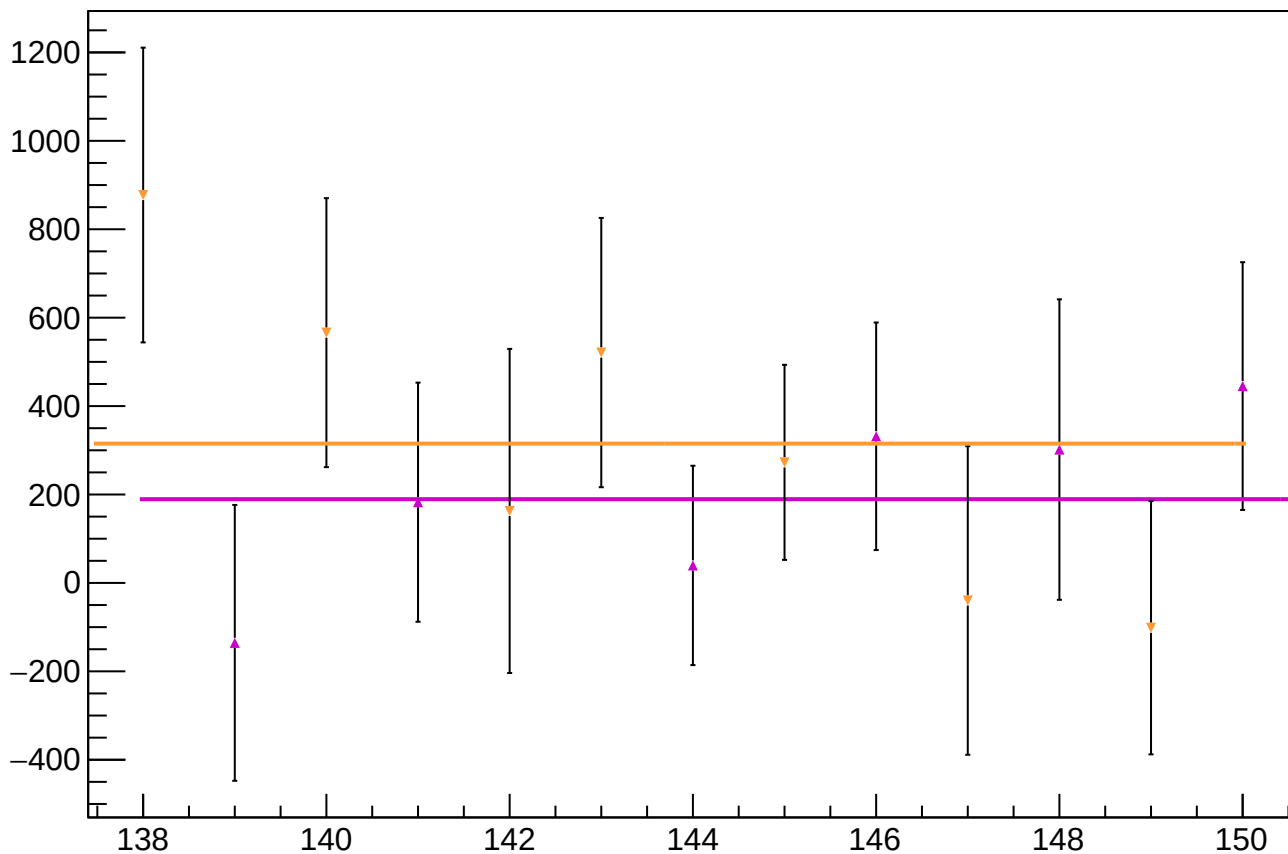
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 791.899+/-0.265  $\chi^2/\text{NDF}$ : 716207.0/5

Out: 841.393+/-0.278  $\chi^2/\text{NDF}$ : 698410.1/6

All: 815.425+/-0.192  $\chi^2/\text{NDF}$ : 1431195.3/12

# reg\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 315.117+/-112.526  $\chi^2/\text{NDF}$ : 7.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 189.415+/-111.725  $\chi^2/\text{NDF}$ : 2.8/5

Left: 251.817+/-79.283  $\chi^2/\text{NDF}$ : 10.7/12

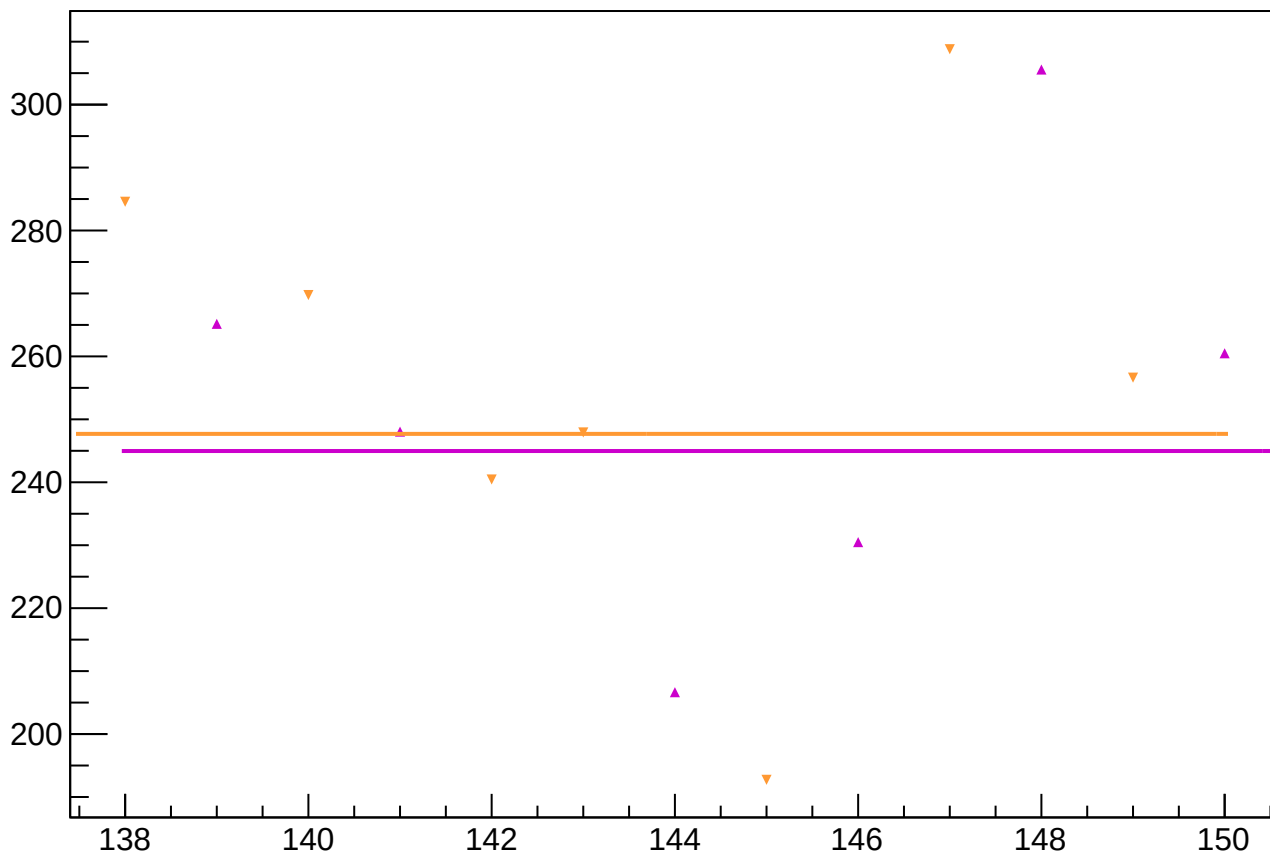
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 189.415+/-111.725  $\chi^2/\text{NDF}$ : 2.8/5

Out: 315.117+/-112.526  $\chi^2/\text{NDF}$ : 7.3/6

All: 251.817+/-79.283  $\chi^2/\text{NDF}$ : 10.7/12

# reg\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 247.689+/-0.080  $\chi^2/\text{NDF}$ :223169.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 244.966+/-0.079  $\chi^2/\text{NDF}$ :142503.8/5

Left: 246.318+/-0.056  $\chi^2/\text{NDF}$ : 366263.4/12

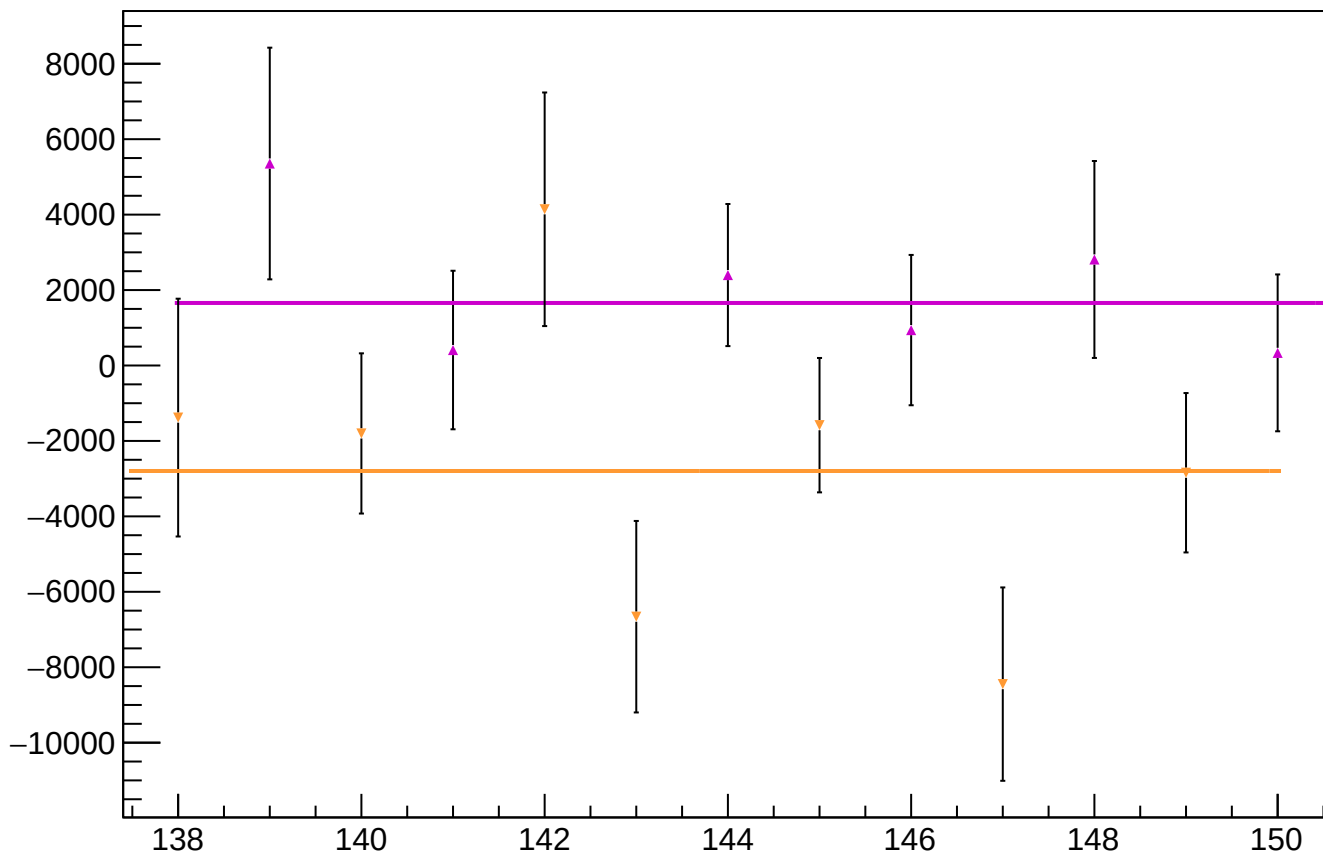
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 244.966+/-0.079  $\chi^2/\text{NDF}$ :142503.8/5

Out: 247.689+/-0.080  $\chi^2/\text{NDF}$ :223169.9/6

All: 246.318+/-0.056  $\chi^2/\text{NDF}$ : 366263.4/12

asym\_sam4\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2797.133+/-886.306  $\chi^2/\text{NDF}$ :13.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1657.893+/-896.555  $\chi^2/\text{NDF}$ :2.7/5

Left: -595.230+/-630.306  $\chi^2/\text{NDF}$ : 28.3/12

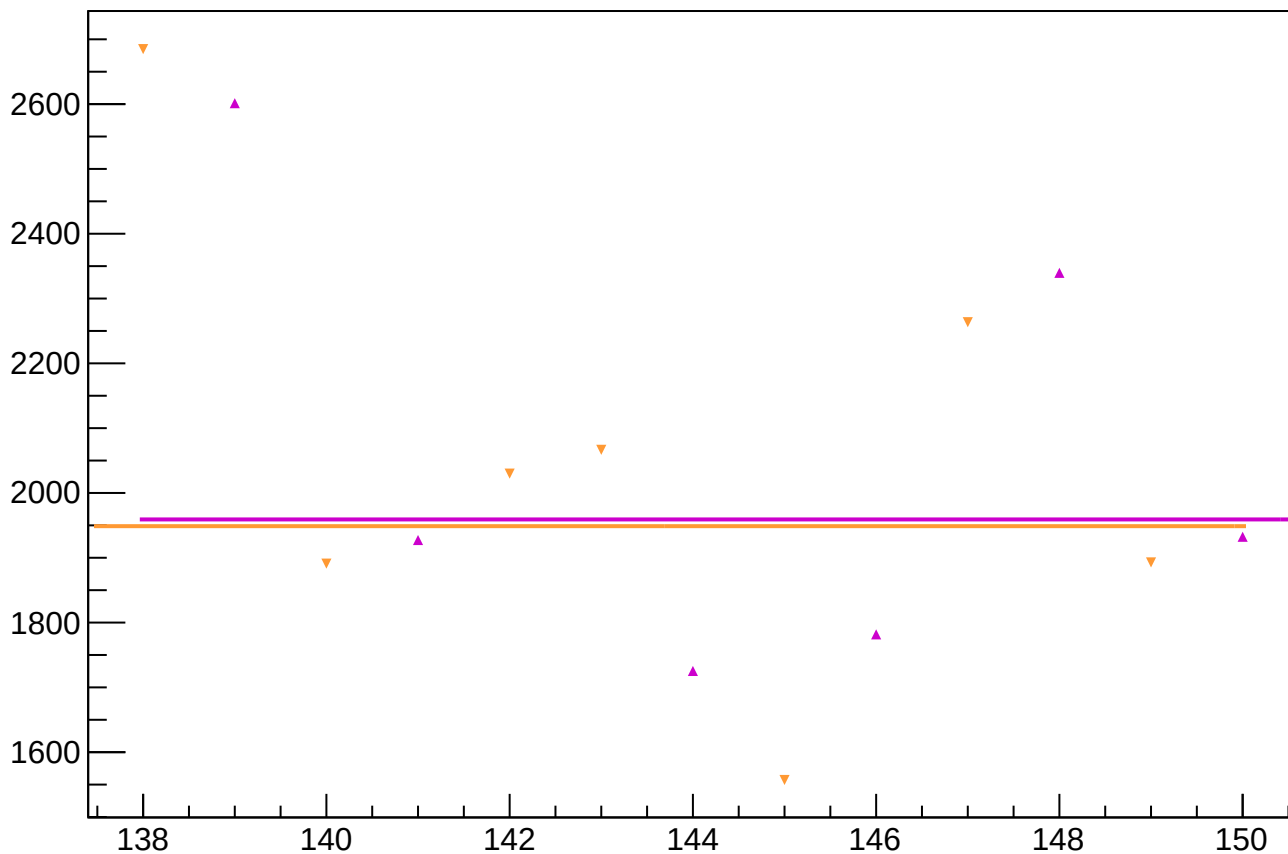
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1657.893+/-896.555  $\chi^2/\text{NDF}$ :2.7/5

Out: -2797.133+/-886.306  $\chi^2/\text{NDF}$ :13.1/6

All: -595.230+/-630.306  $\chi^2/\text{NDF}$ : 28.3/12

# asym\_sam4\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1948.749+/-0.627  $\chi^2/\text{NDF}$ :244420.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1959.151+/-0.634  $\chi^2/\text{NDF}$ :177385.2/5

Left: 1953.890+/-0.446  $\chi^2/\text{NDF}$ : 421942.1/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

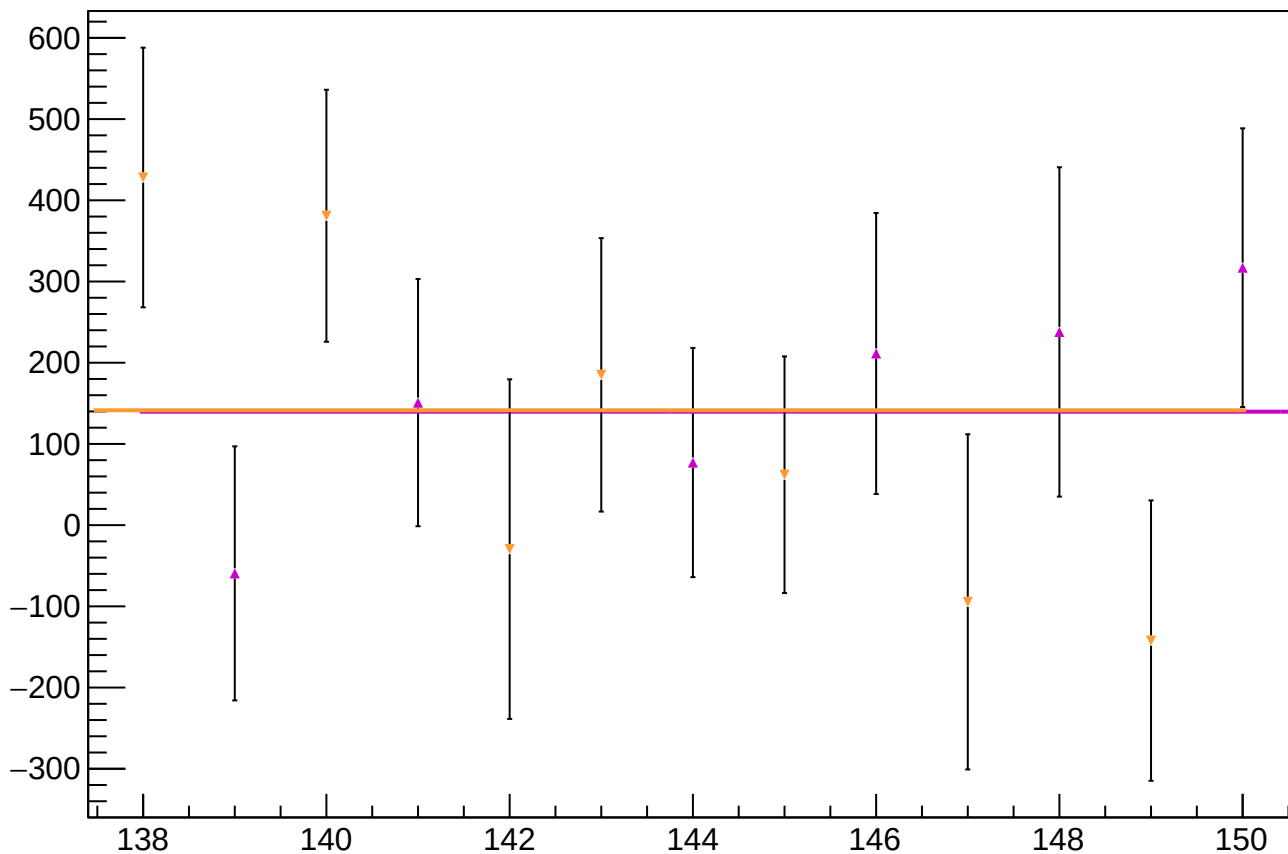
In: 1959.151+/-0.634  $\chi^2/\text{NDF}$ :177385.2/5

Out: 1948.749+/-0.627  $\chi^2/\text{NDF}$ :244420.7/6

All: 1953.890+/-0.446  $\chi^2/\text{NDF}$ : 421942.1/12



# reg\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 141.445+/-64.156  $\chi^2/\text{NDF}$ :10.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 139.721+/-66.529  $\chi^2/\text{NDF}$ :3.3/5

Left: 140.614+/-46.181  $\chi^2/\text{NDF}$ : 13.9/12

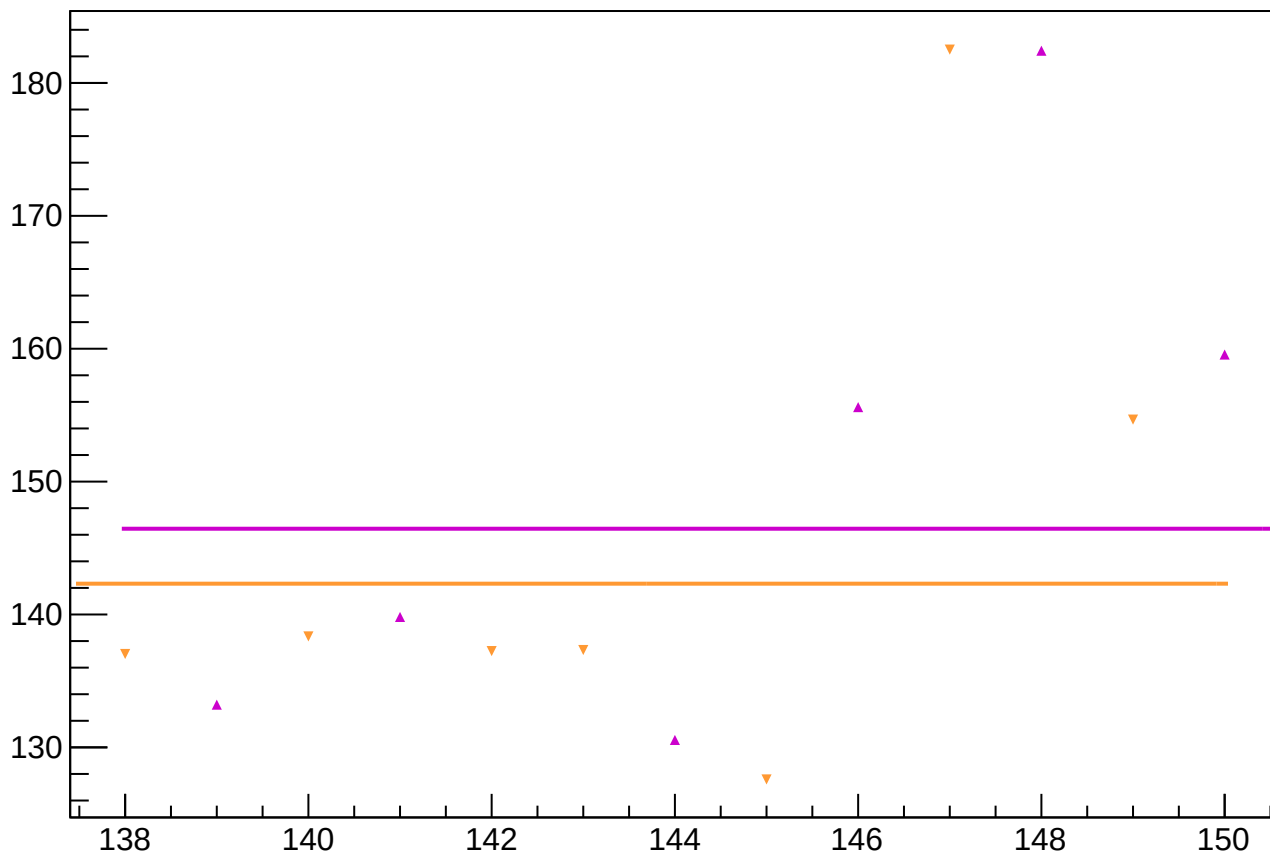
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 139.721+/-66.529  $\chi^2/\text{NDF}$ :3.3/5

Out: 141.445+/-64.156  $\chi^2/\text{NDF}$ :10.6/6

All: 140.614+/-46.181  $\chi^2/\text{NDF}$ : 13.9/12

# reg\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 142.319+/-0.045  $\chi^2/\text{NDF}$ :112946.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 146.454+/-0.047  $\chi^2/\text{NDF}$ :123704.4/5

Left: 144.311+/-0.033  $\chi^2/\text{NDF}$ : 240655.0/12

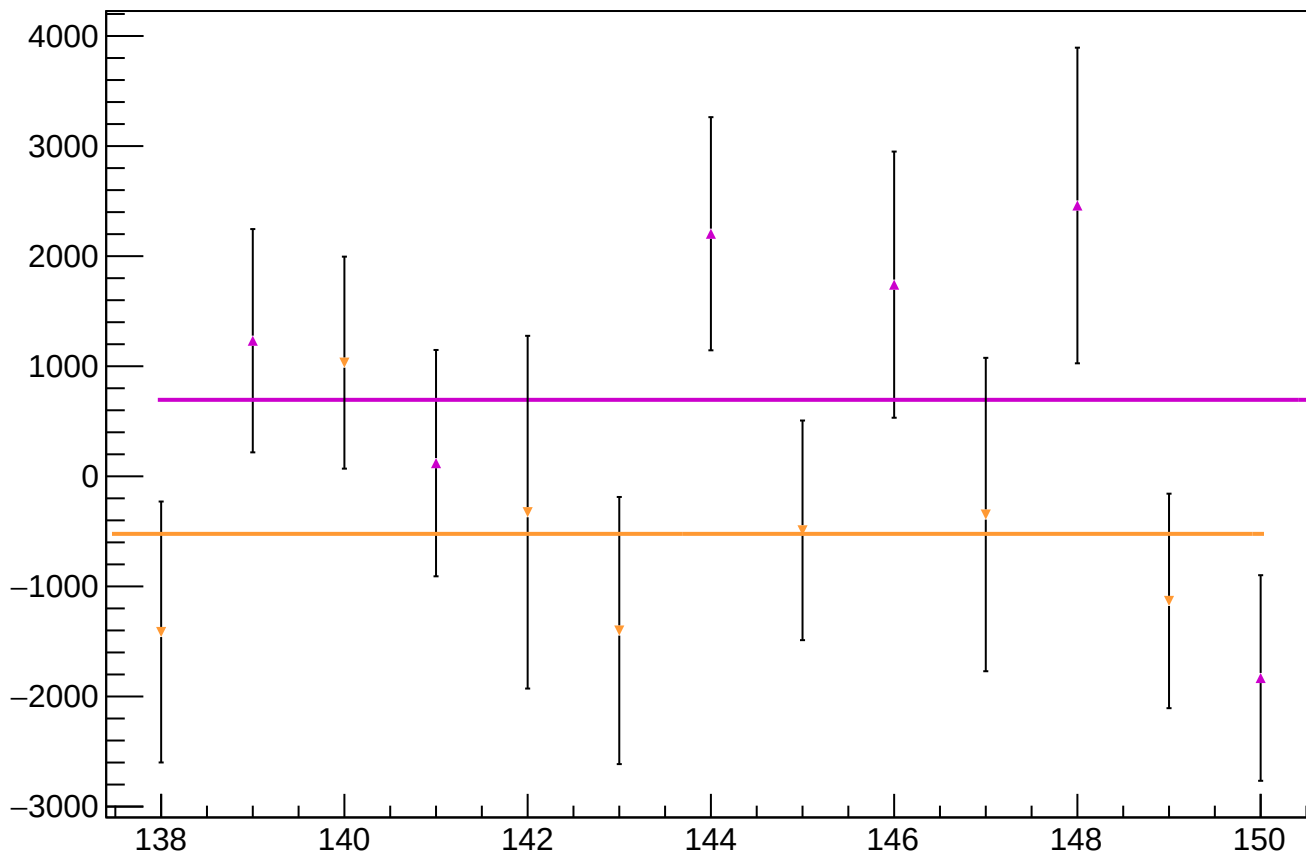
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 146.454+/-0.047  $\chi^2/\text{NDF}$ :123704.4/5

Out: 142.319+/-0.045  $\chi^2/\text{NDF}$ :112946.3/6

All: 144.311+/-0.033  $\chi^2/\text{NDF}$ : 240655.0/12

asym\_sam5\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -522.657+/-429.882  $\chi^2/\text{NDF}$ : 4.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 694.926+/-441.624  $\chi^2/\text{NDF}$ : 12.2/5

Left: 69.732+/-308.040  $\chi^2/\text{NDF}$ : 20.2/12

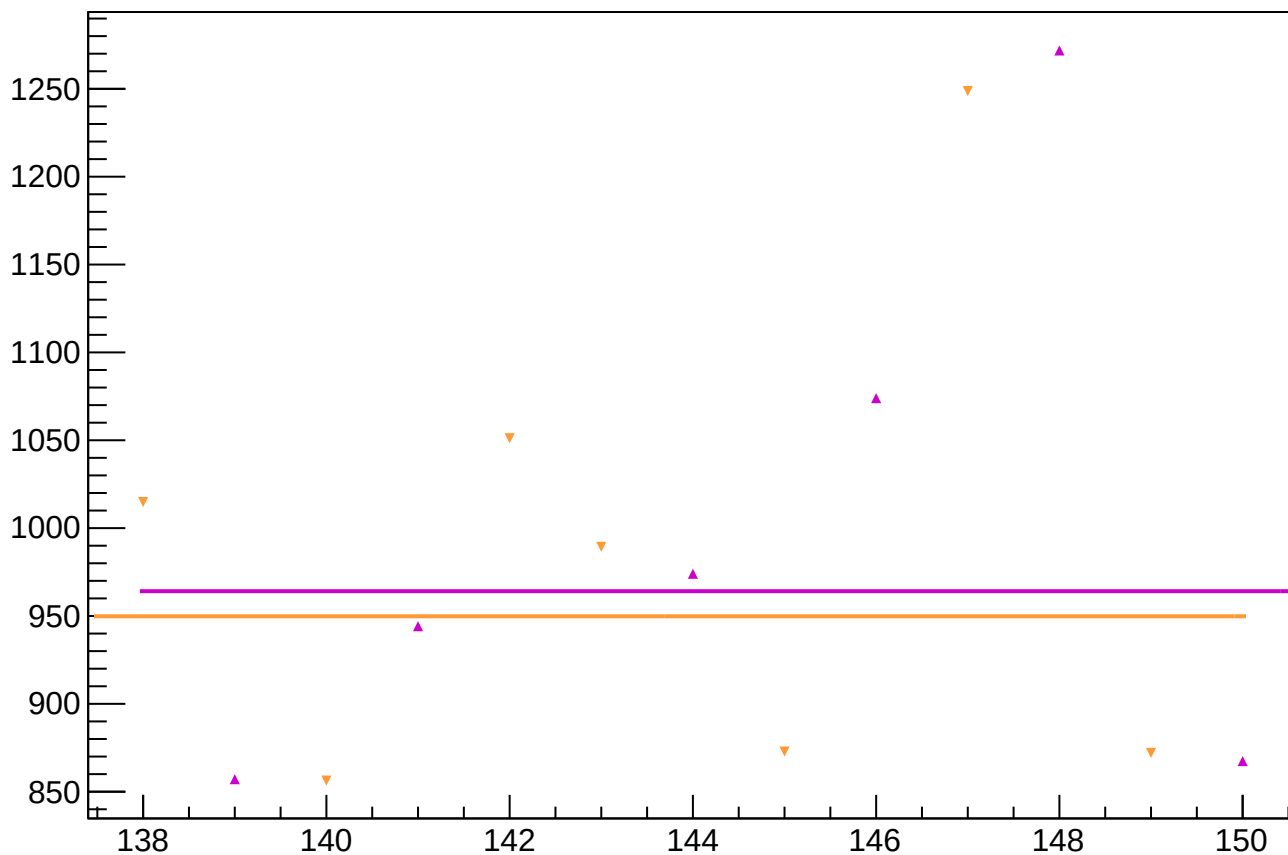
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 694.926+/-441.624  $\chi^2/\text{NDF}$ : 12.2/5

Out: -522.657+/-429.882  $\chi^2/\text{NDF}$ : 4.1/6

All: 69.732+/-308.040  $\chi^2/\text{NDF}$ : 20.2/12

# asym\_sam5\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 949.825+/-0.304  $\chi^2/\text{NDF}$ :147827.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 964.114+/-0.312  $\chi^2/\text{NDF}$ :153285.7/5

Left: 956.777+/-0.218  $\chi^2/\text{NDF}$ : 302188.5/12

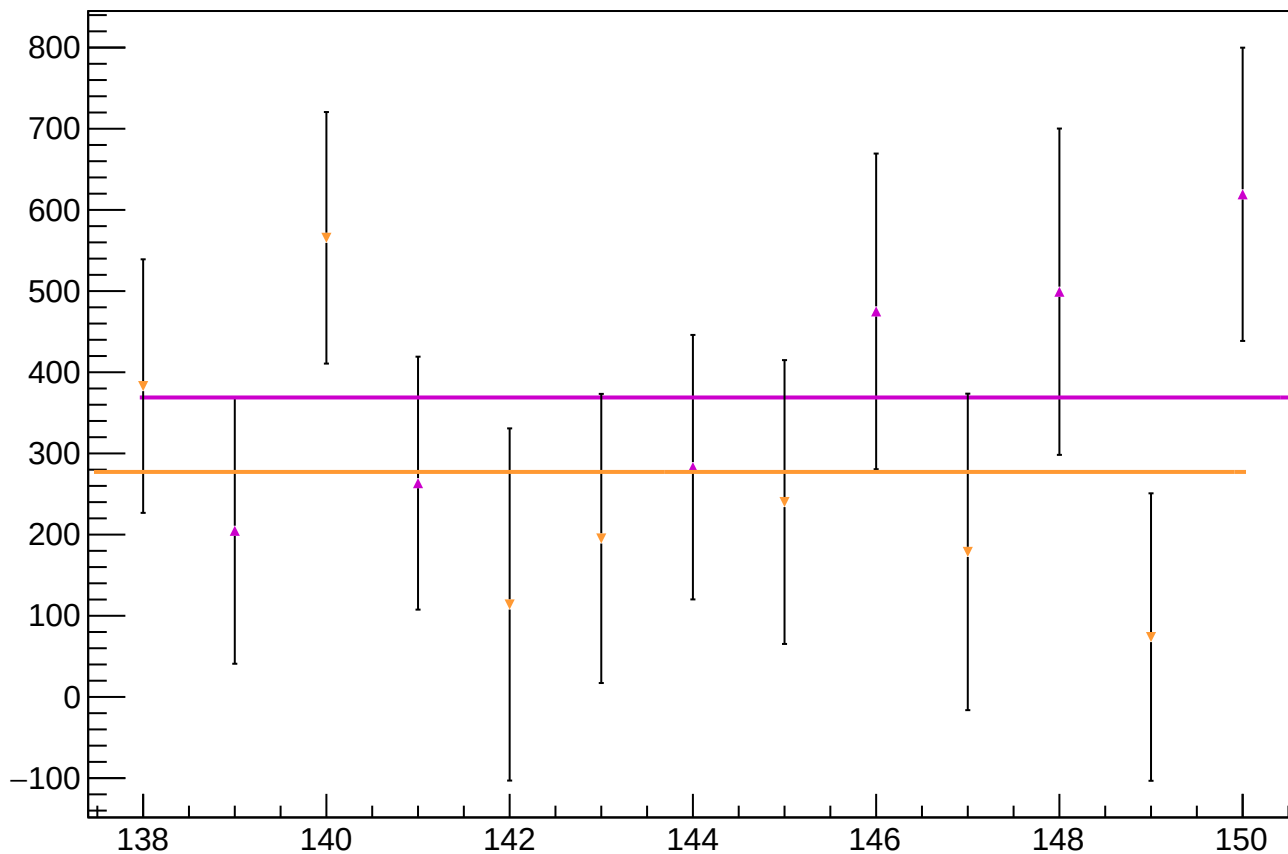
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 964.114+/-0.312  $\chi^2/\text{NDF}$ :153285.7/5

Out: 949.825+/-0.304  $\chi^2/\text{NDF}$ :147827.7/6

All: 956.777+/-0.218  $\chi^2/\text{NDF}$ : 302188.5/12

# reg\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 277.215+/-66.469  $\chi^2/\text{NDF}$ : 6.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 368.930+/-71.069  $\chi^2/\text{NDF}$ : 4.4/5

Left: 320.008+/-48.546  $\chi^2/\text{NDF}$ : 11.6/12

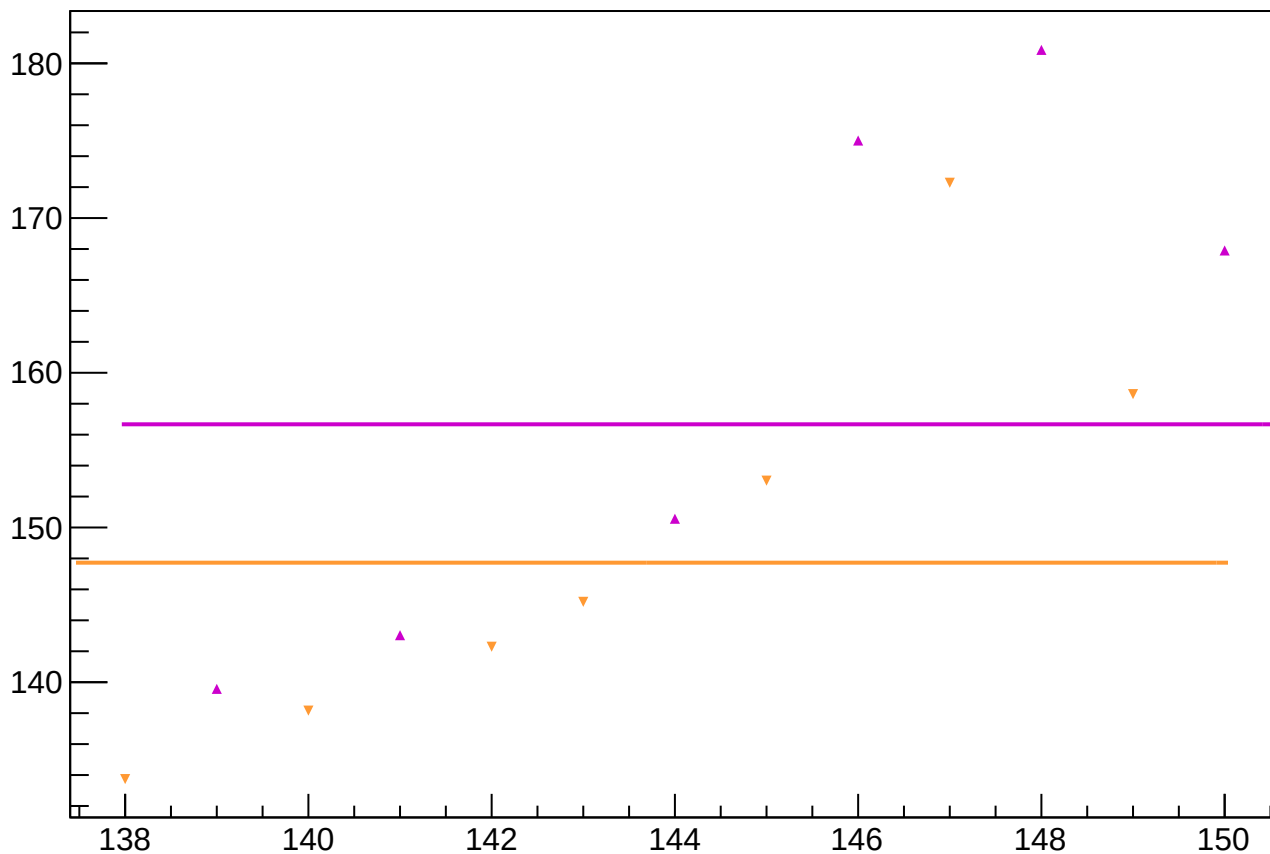
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 368.930+/-71.069  $\chi^2/\text{NDF}$ : 4.4/5

Out: 277.215+/-66.469  $\chi^2/\text{NDF}$ : 6.3/6

All: 320.008+/-48.546  $\chi^2/\text{NDF}$ : 11.6/12

# reg\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 147.726+/-0.047  $\chi^2/\text{NDF}$ :66460.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 156.670+/-0.050  $\chi^2/\text{NDF}$ :94433.9/5

Left: 151.899+/-0.034  $\chi^2/\text{NDF}$ : 177788.8/12

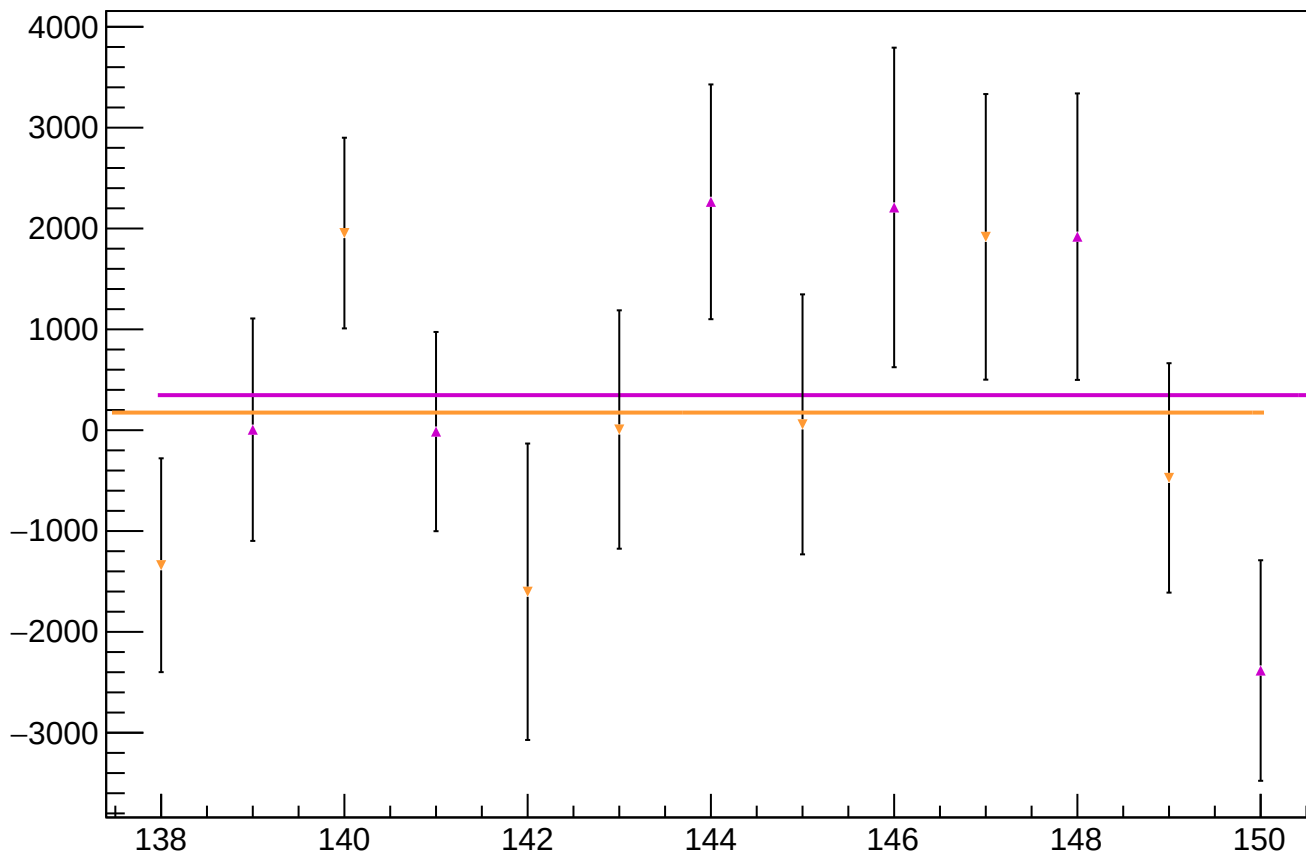
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 156.670+/-0.050  $\chi^2/\text{NDF}$ :94433.9/5

Out: 147.726+/-0.047  $\chi^2/\text{NDF}$ :66460.3/6

All: 151.899+/-0.034  $\chi^2/\text{NDF}$ : 177788.8/12

asym\_sam6\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 174.692+/-444.533  $\chi^2/\text{NDF}$ :8.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 347.521+/-481.387  $\chi^2/\text{NDF}$ :11.8/5

Left: 254.239+/-326.585  $\chi^2/\text{NDF}$ : 20.8/12

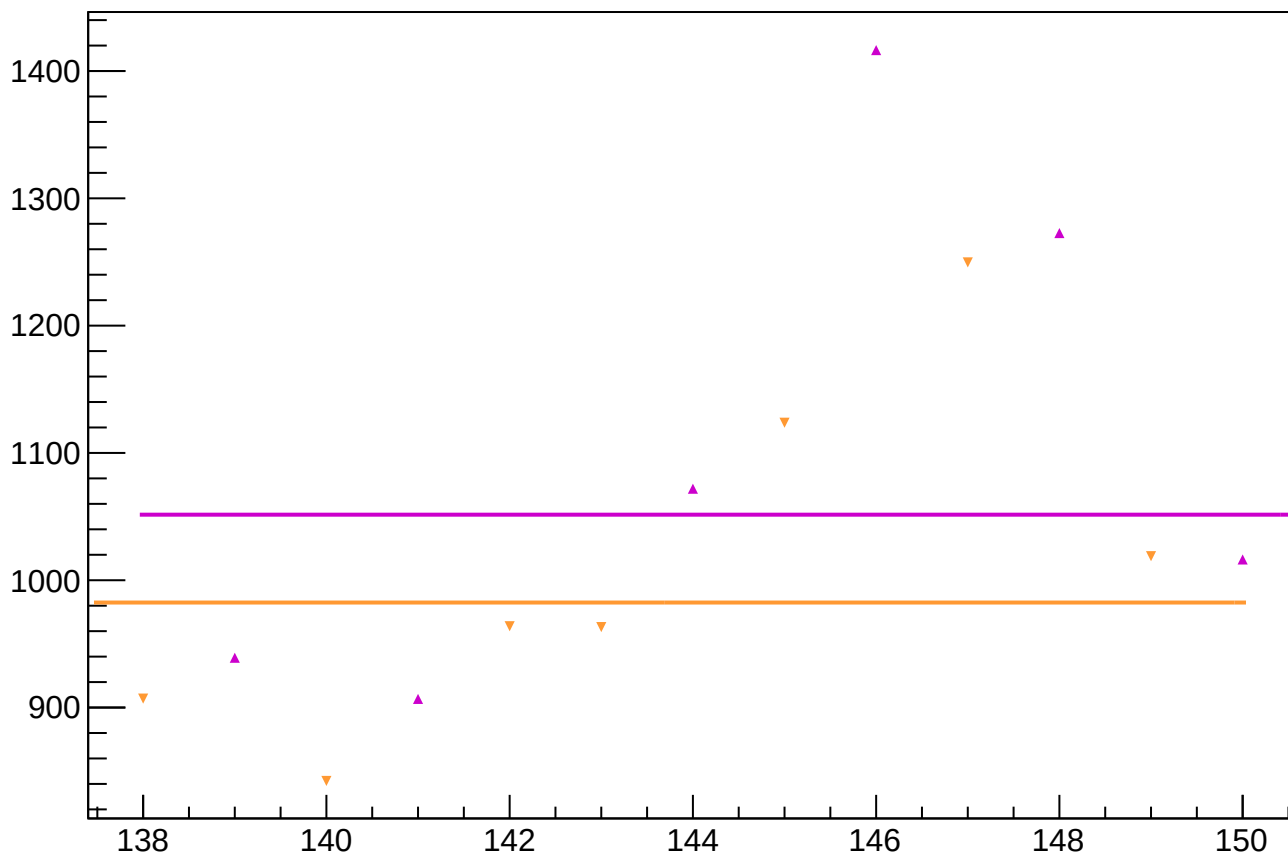
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 347.521+/-481.387  $\chi^2/\text{NDF}$ :11.8/5

Out: 174.692+/-444.533  $\chi^2/\text{NDF}$ :8.9/6

All: 254.239+/-326.585  $\chi^2/\text{NDF}$ : 20.8/12

# asym\_sam6\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 982.487+/-0.314  $\chi^2/\text{NDF}$ :152189.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1051.498+/-0.340  $\chi^2/\text{NDF}$ :220991.1/5

Left: 1014.250+/-0.231  $\chi^2/\text{NDF}$ : 395365.7/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

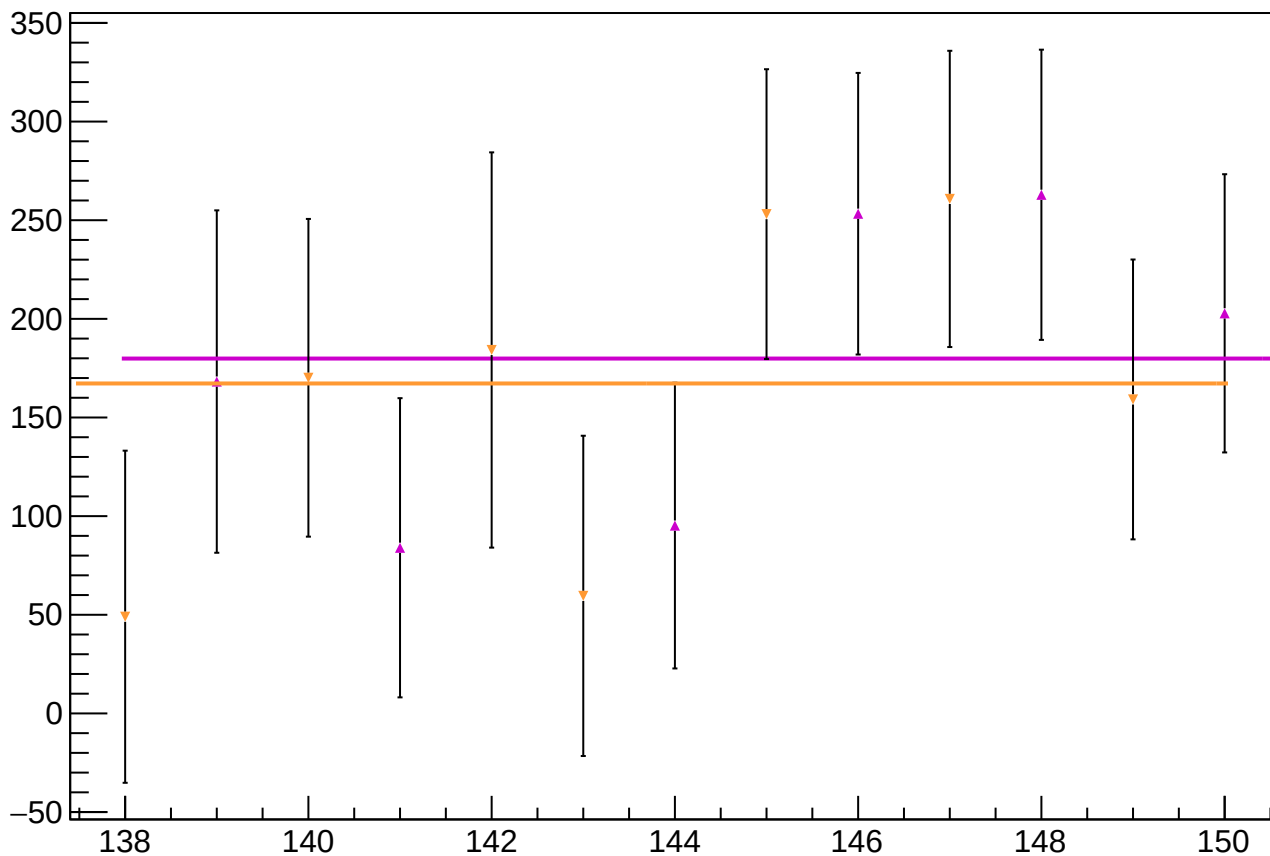
In: 1051.498+/-0.340  $\chi^2/\text{NDF}$ :220991.1/5

Out: 982.487+/-0.314  $\chi^2/\text{NDF}$ :152189.5/6

All: 1014.250+/-0.231  $\chi^2/\text{NDF}$ : 395365.7/12



# reg\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 167.247+/-30.038  $\chi^2/\text{NDF}$ : 6.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 179.874+/-30.434  $\chi^2/\text{NDF}$ : 5.4/5

Left: 173.478+/-21.378  $\chi^2/\text{NDF}$ : 12.2/12

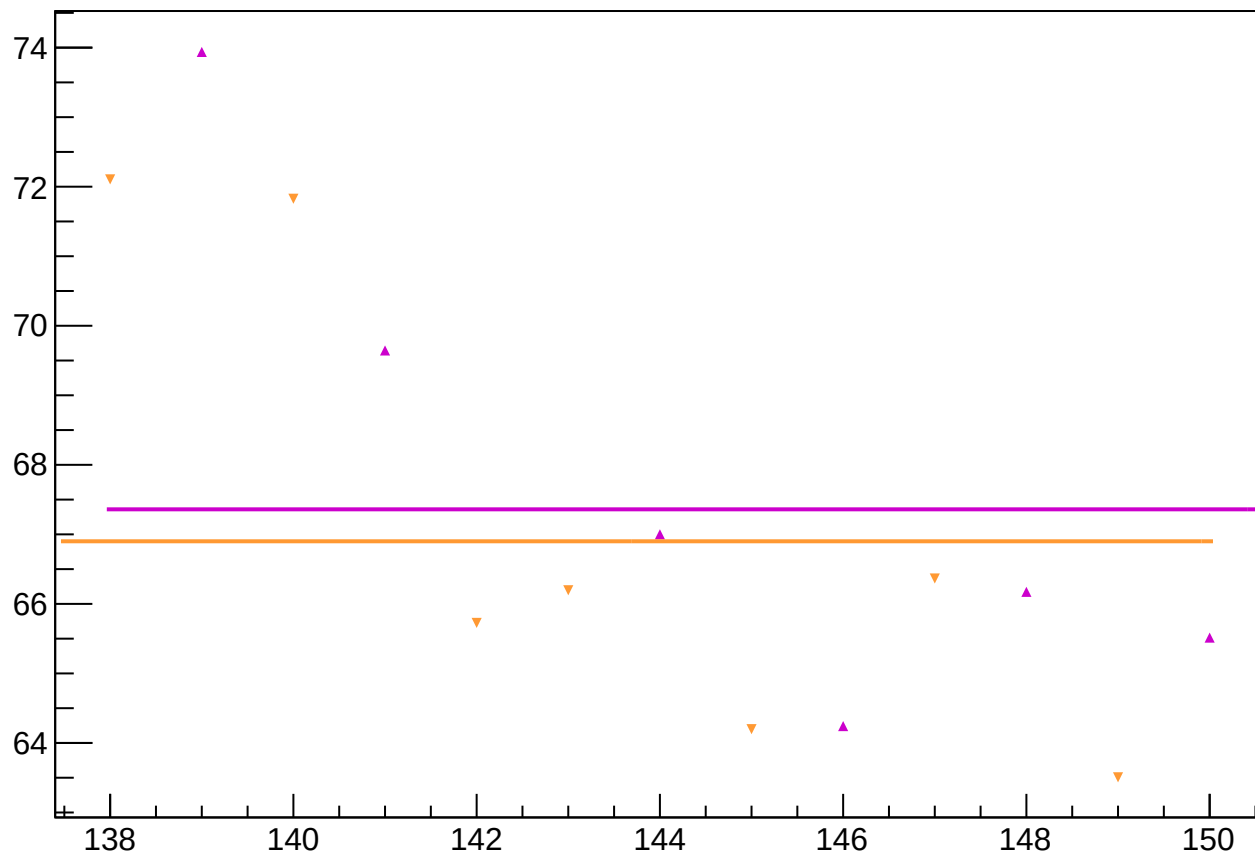
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 179.874+/-30.434  $\chi^2/\text{NDF}$ : 5.4/5

Out: 167.247+/-30.038  $\chi^2/\text{NDF}$ : 6.7/6

All: 173.478+/-21.378  $\chi^2/\text{NDF}$ : 12.2/12

# reg\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 66.900+/-0.021  $\chi^2/\text{NDF}$ :22946.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 67.360+/-0.022  $\chi^2/\text{NDF}$ :19061.5/5

Left: 67.127+/-0.015  $\chi^2/\text{NDF}$ : 42239.3/12

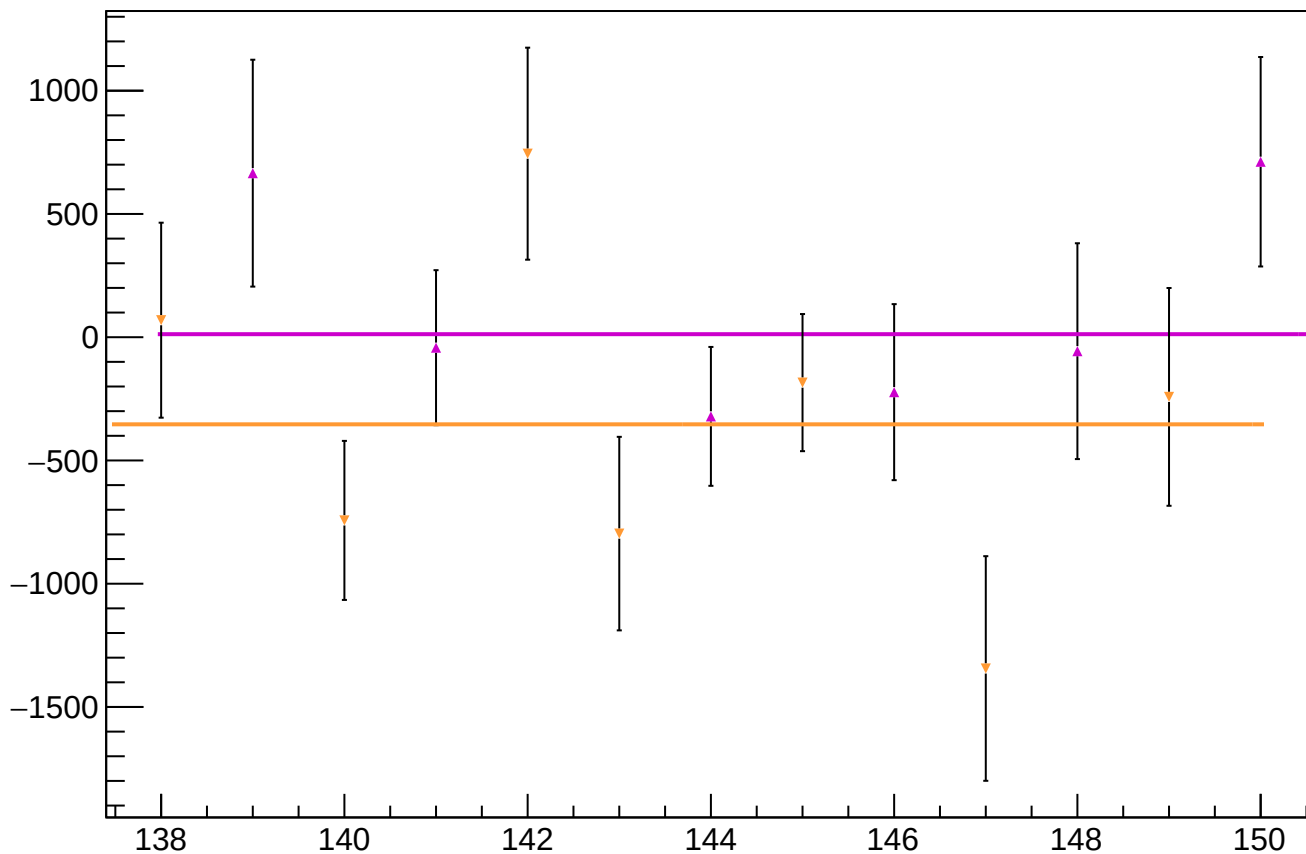
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 67.360+/-0.022  $\chi^2/\text{NDF}$ :19061.5/5

Out: 66.900+/-0.021  $\chi^2/\text{NDF}$ :22946.8/6

All: 67.127+/-0.015  $\chi^2/\text{NDF}$ : 42239.3/12

# asym\_sam7\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -353.415+/-140.353  $\chi^2/\text{NDF}$ :15.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 12.286+/-147.373  $\chi^2/\text{NDF}$ :6.6/5

Left: -179.482+/-101.636  $\chi^2/\text{NDF}$ : 25.4/12

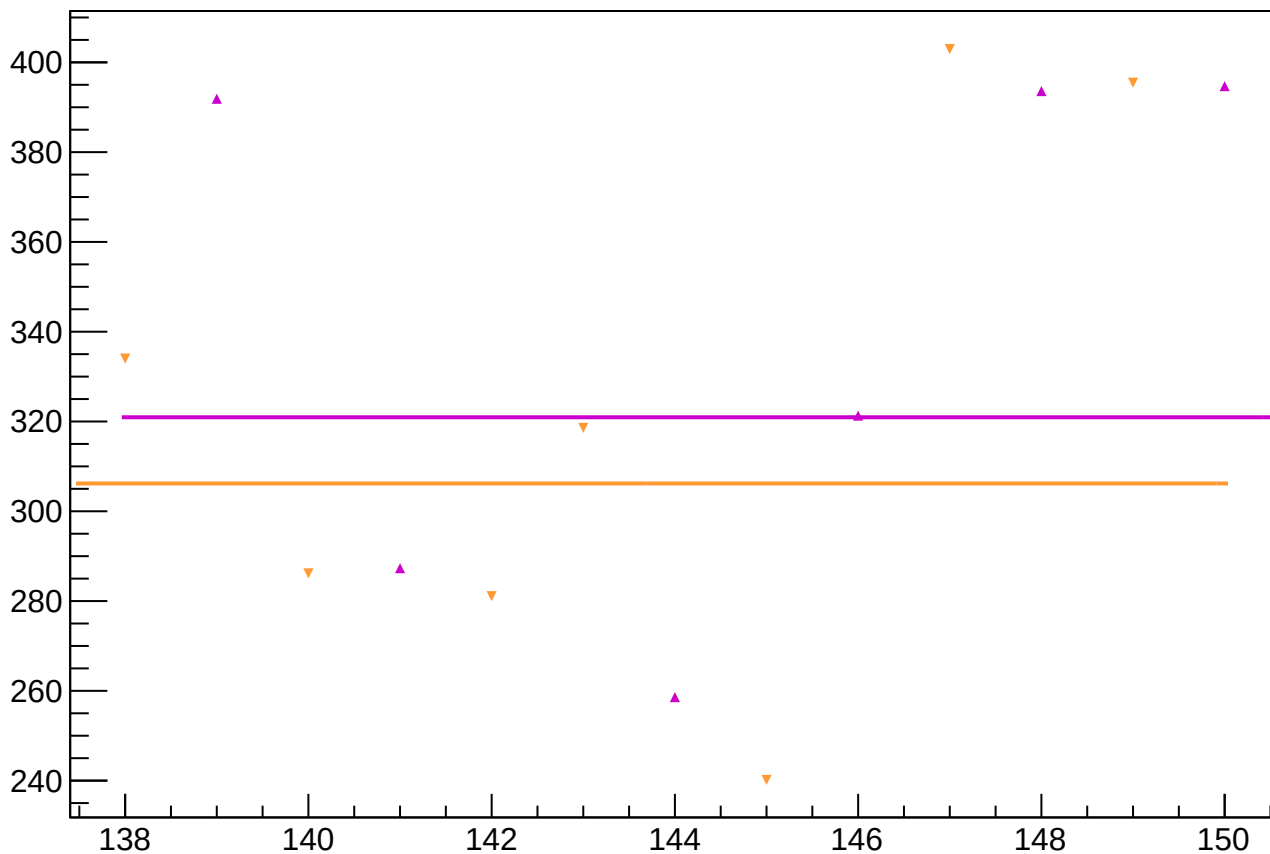
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 12.286+/-147.373  $\chi^2/\text{NDF}$ :6.6/5

Out: -353.415+/-140.353  $\chi^2/\text{NDF}$ :15.6/6

All: -179.482+/-101.636  $\chi^2/\text{NDF}$ : 25.4/12

# asym\_sam7\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 306.195+/-0.099  $\chi^2/\text{NDF}$ :310988.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 320.942+/-0.104  $\chi^2/\text{NDF}$ :283757.8/5

Left: 313.209+/-0.072  $\chi^2/\text{NDF}$ : 605247.2/12

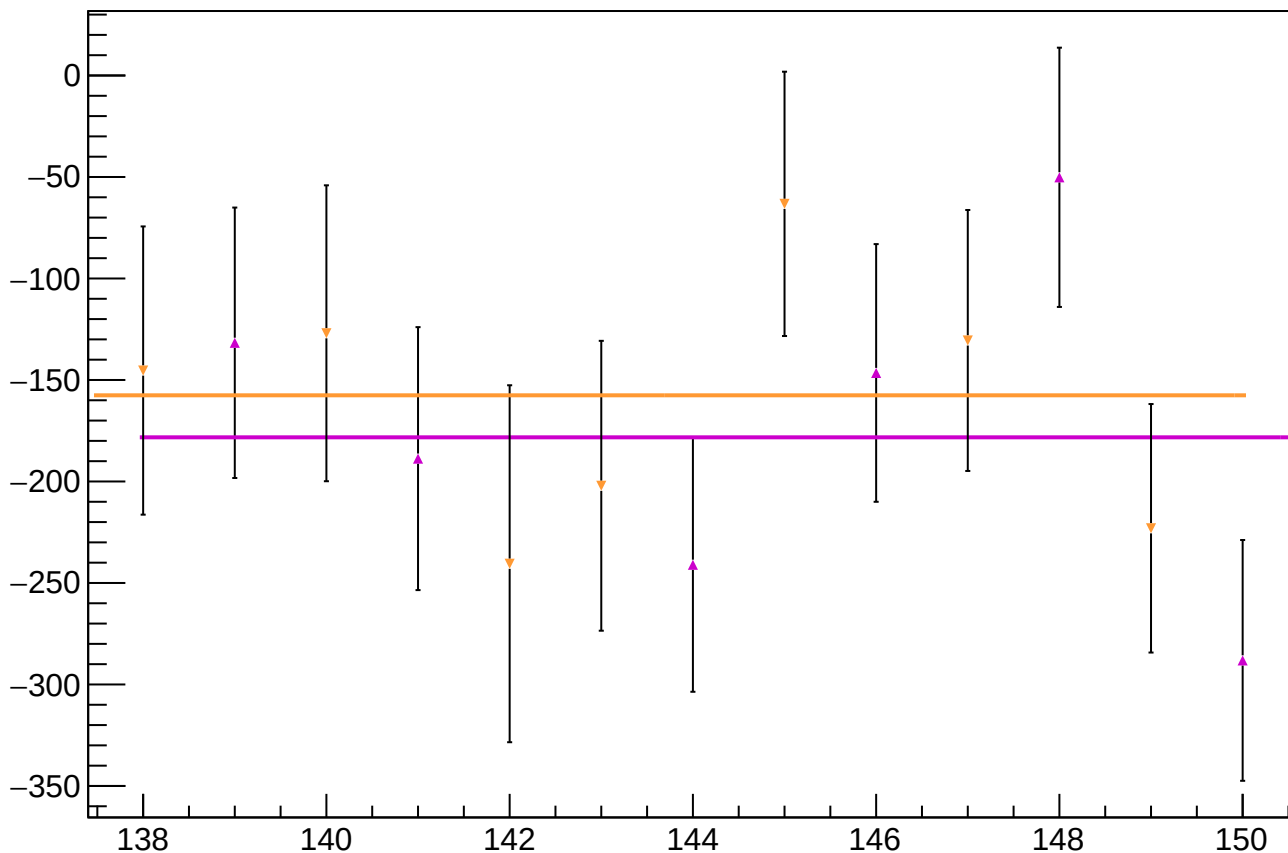
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 320.942+/-0.104  $\chi^2/\text{NDF}$ :283757.8/5

Out: 306.195+/-0.099  $\chi^2/\text{NDF}$ :310988.8/6

All: 313.209+/-0.072  $\chi^2/\text{NDF}$ : 605247.2/12

# reg\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-157.551 \pm 26.199$   $\chi^2/\text{NDF}: 4.9/6$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $-178.250 \pm 25.847$   $\chi^2/\text{NDF}: 9.2/5$

Left:  $-168.040 \pm 18.400$   $\chi^2/\text{NDF}: 14.4/12$

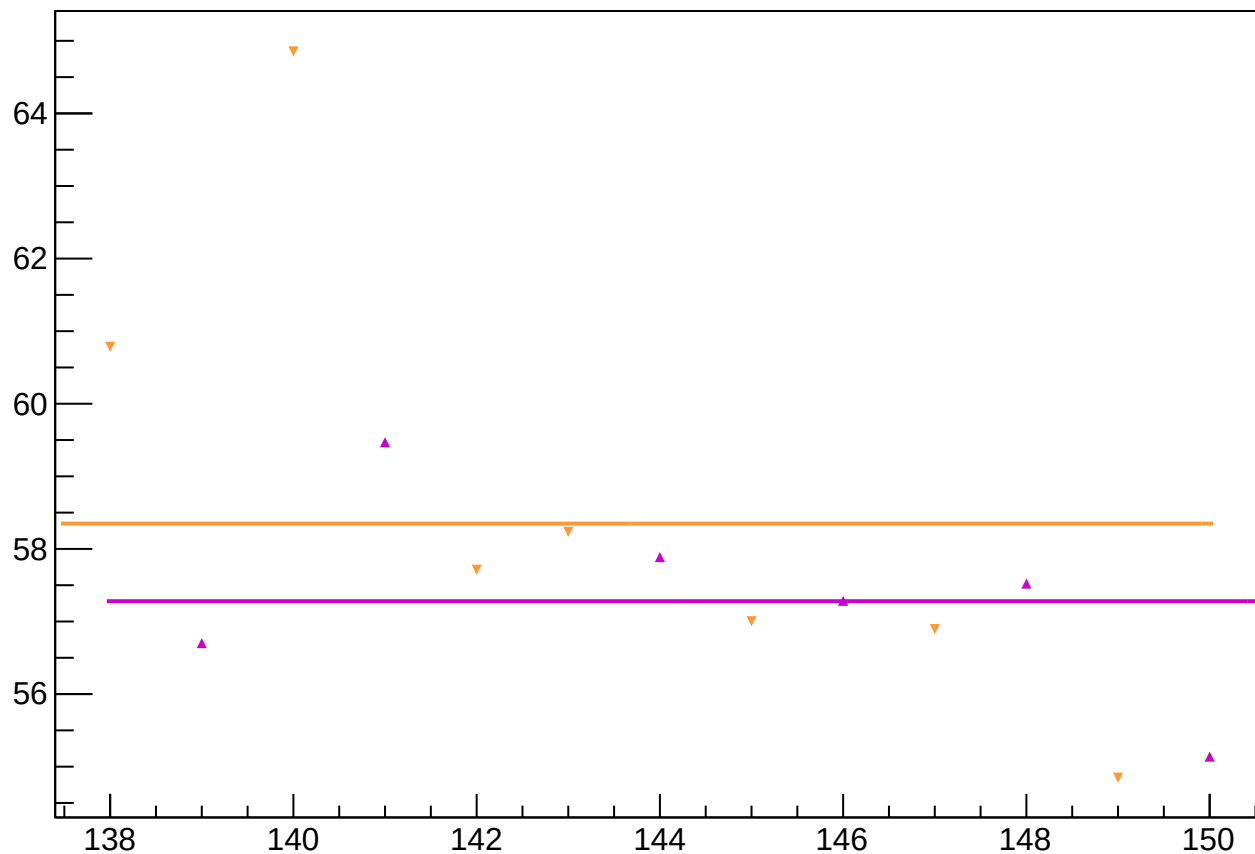
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-178.250 \pm 25.847$   $\chi^2/\text{NDF}: 9.2/5$

Out:  $-157.551 \pm 26.199$   $\chi^2/\text{NDF}: 4.9/6$

All:  $-168.040 \pm 18.400$   $\chi^2/\text{NDF}: 14.4/12$

# reg\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 58.349+/-0.019  $\chi^2/\text{NDF}$ :26811.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 57.279+/-0.018  $\chi^2/\text{NDF}$ :5261.0/5

Left: 57.807+/-0.013  $\chi^2/\text{NDF}$ : 33761.0/12

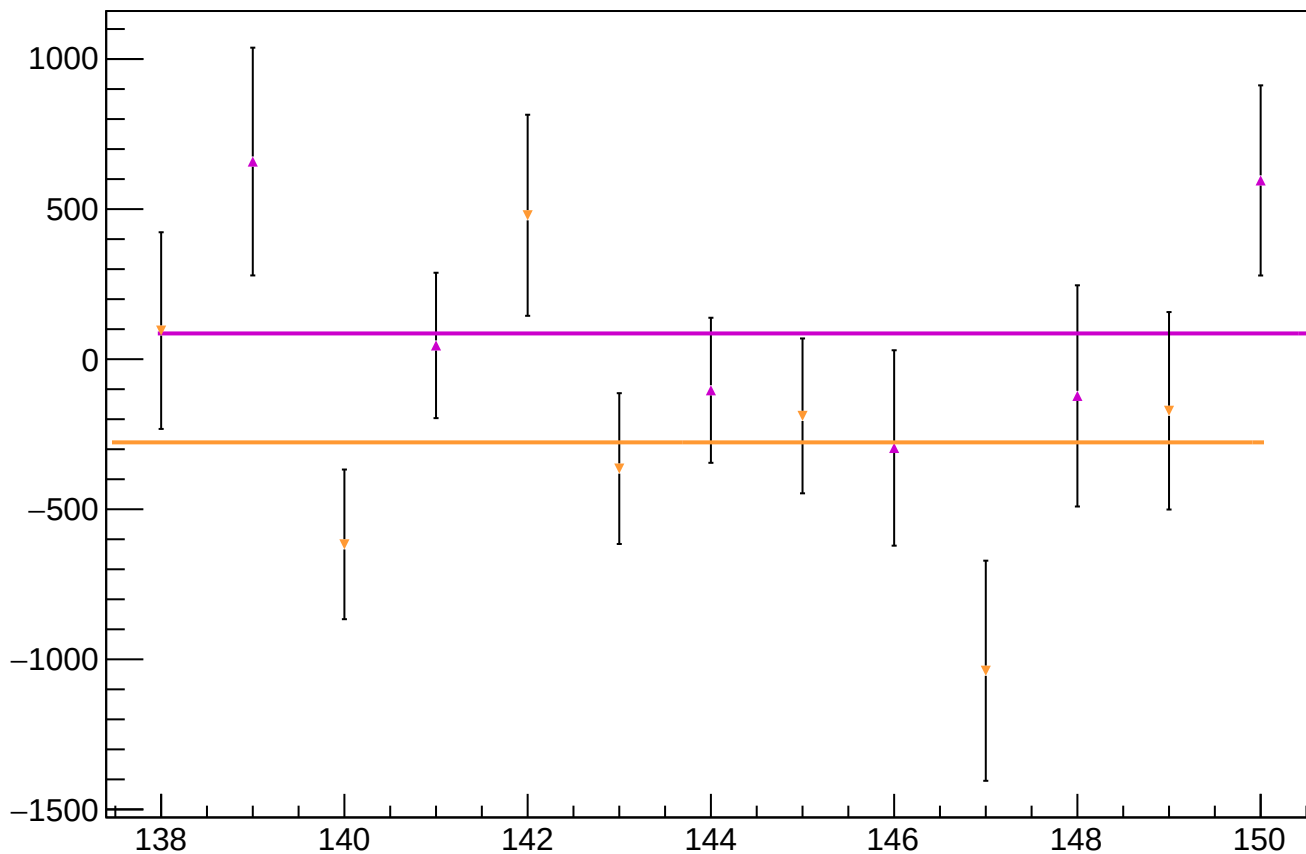
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 57.279+/-0.018  $\chi^2/\text{NDF}$ :5261.0/5

Out: 58.349+/-0.019  $\chi^2/\text{NDF}$ :26811.6/6

All: 57.807+/-0.013  $\chi^2/\text{NDF}$ : 33761.0/12

# asym\_sam8\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -277.130+/-110.527  $\chi^2/\text{NDF}$ :12.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 85.802+/-121.371  $\chi^2/\text{NDF}$ :7.2/5

Left: -112.598+/-81.720  $\chi^2/\text{NDF}$ : 25.0/12

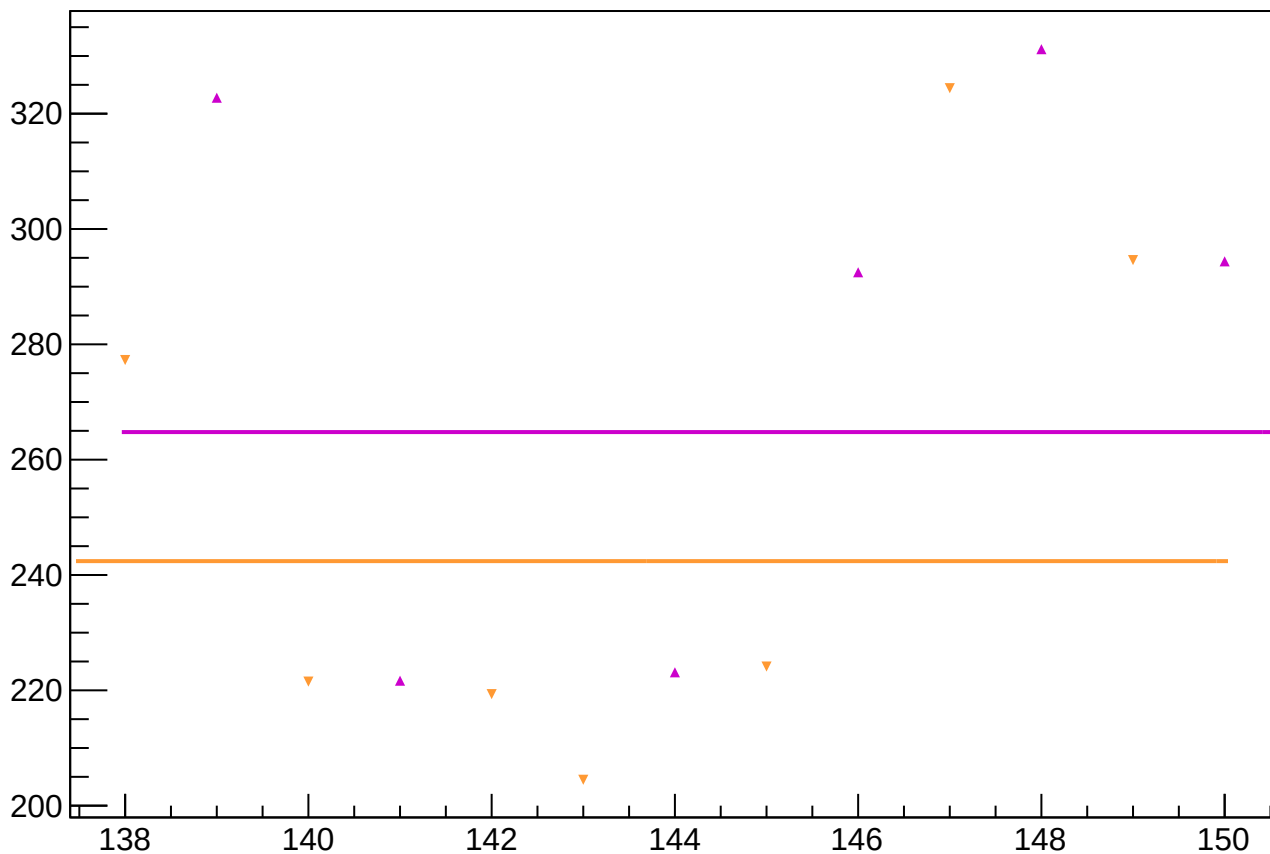
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 85.802+/-121.371  $\chi^2/\text{NDF}$ :7.2/5

Out: -277.130+/-110.527  $\chi^2/\text{NDF}$ :12.9/6

All: -112.598+/-81.720  $\chi^2/\text{NDF}$ : 25.0/12

# asym\_sam8\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 242.407+/-0.078  $\chi^2/\text{NDF}$ :252178.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 264.785+/-0.086  $\chi^2/\text{NDF}$ :266410.6/5

Left: 252.552+/-0.058  $\chi^2/\text{NDF}$ : 555756.7/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

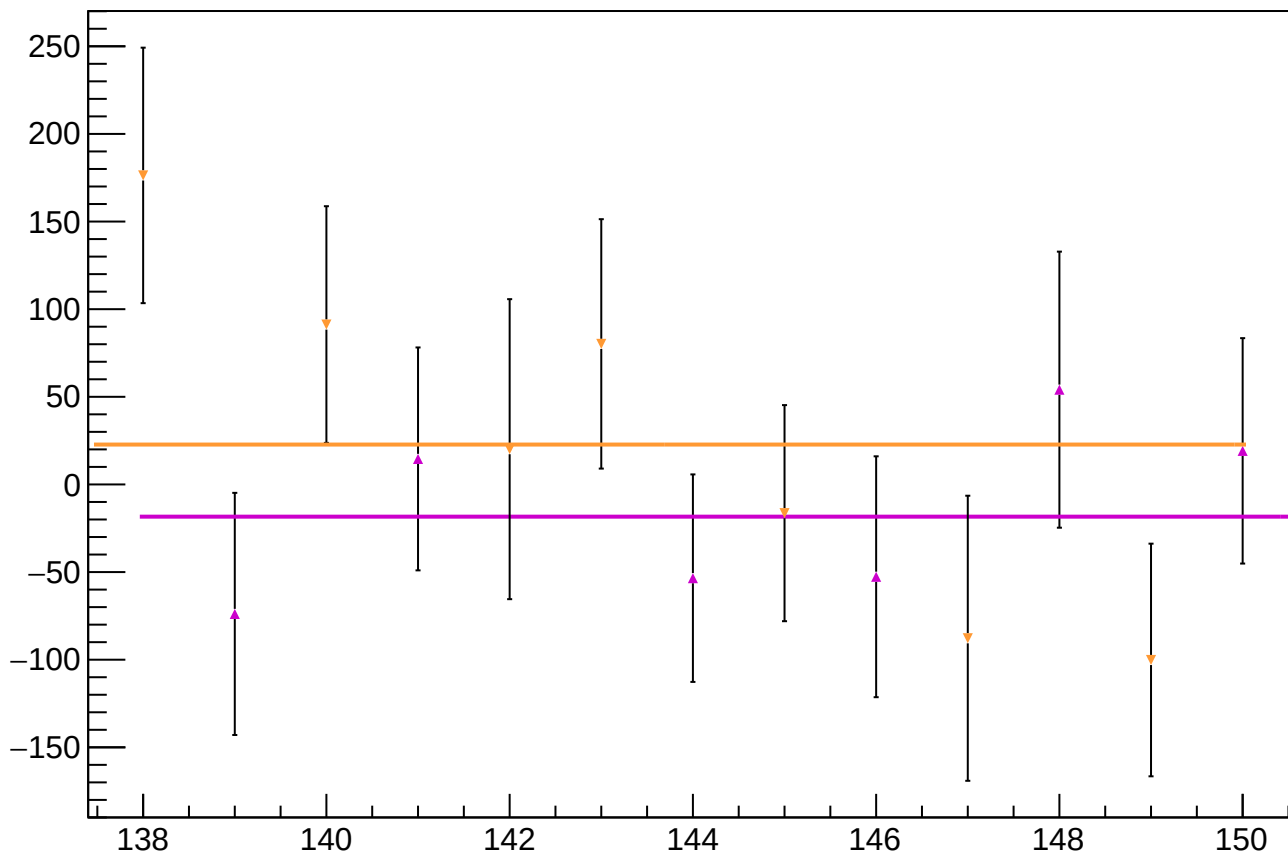
In: 264.785+/-0.086  $\chi^2/\text{NDF}$ :266410.6/5

Out: 242.407+/-0.078  $\chi^2/\text{NDF}$ :252178.6/6

All: 252.552+/-0.058  $\chi^2/\text{NDF}$ : 555756.7/12



reg\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 22.756+/-26.891  $\chi^2/\text{NDF}$ :11.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.381+/-27.147  $\chi^2/\text{NDF}$ :2.7/5

Left: 2.382+/-19.105  $\chi^2/\text{NDF}$ : 15.7/12

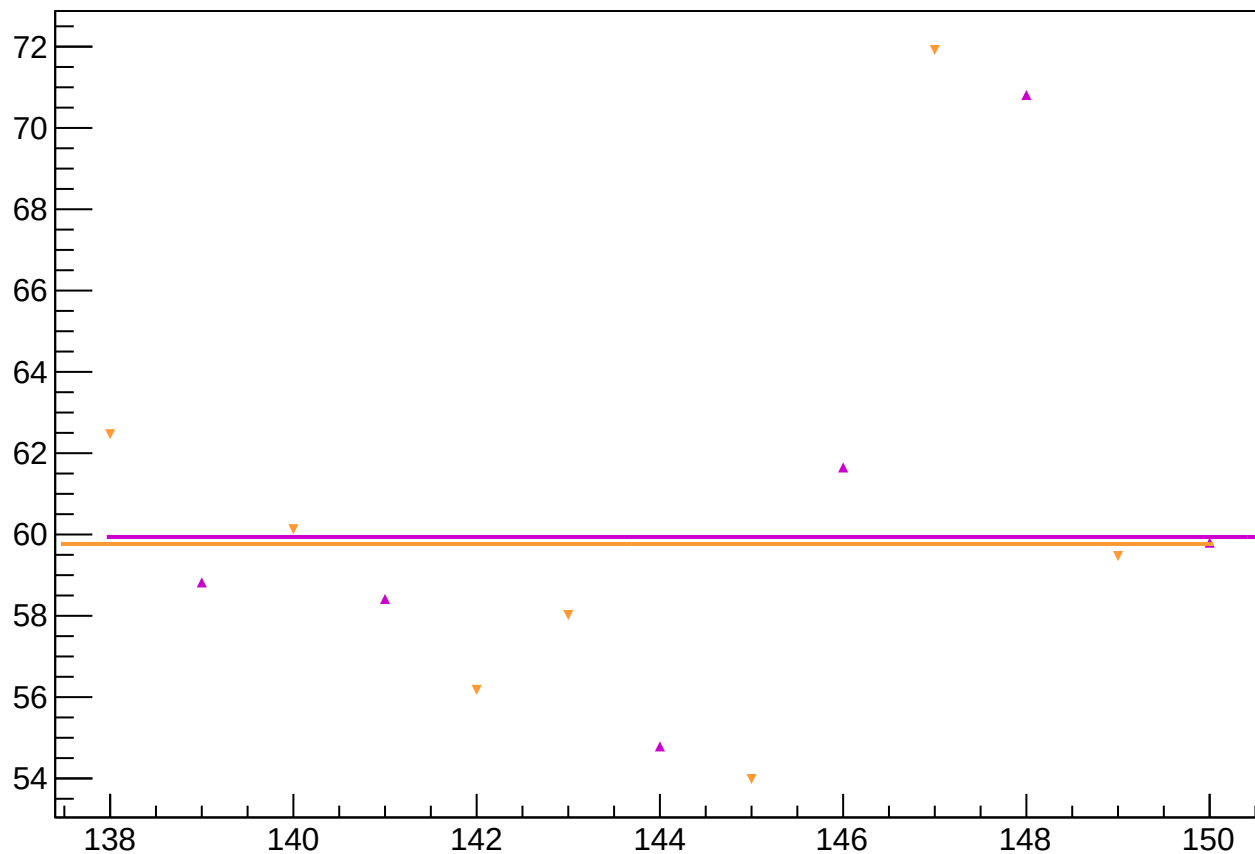
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.381+/-27.147  $\chi^2/\text{NDF}$ :2.7/5

Out: 22.756+/-26.891  $\chi^2/\text{NDF}$ :11.8/6

All: 2.382+/-19.105  $\chi^2/\text{NDF}$ : 15.7/12

reg\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 59.767+/-0.019  $\chi^2/\text{NDF}$ : 69792.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 59.939+/-0.019  $\chi^2/\text{NDF}$ : 56169.2/5

Left: 59.852+/-0.014  $\chi^2/\text{NDF}$ : 126002.4/12

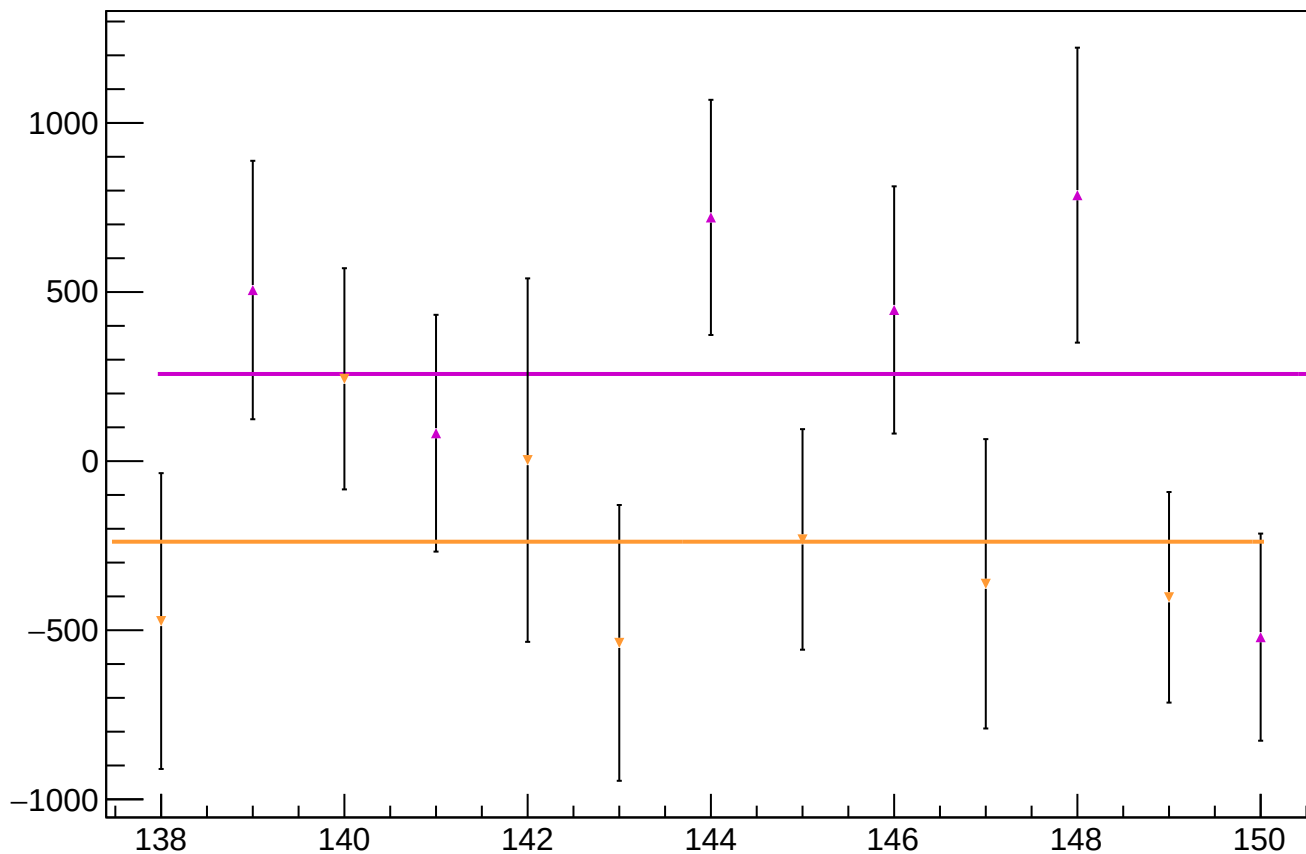
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 59.939+/-0.019  $\chi^2/\text{NDF}$ : 56169.2/5

Out: 59.767+/-0.019  $\chi^2/\text{NDF}$ : 69792.7/6

All: 59.852+/-0.014  $\chi^2/\text{NDF}$ : 126002.4/12

asym\_sam\_15\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -238.235+/-142.517  $\chi^2/\text{NDF}$ : 3.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 257.740+/-146.358  $\chi^2/\text{NDF}$ : 10.6/5

Left: 3.159+/-102.106  $\chi^2/\text{NDF}$ : 20.1/12

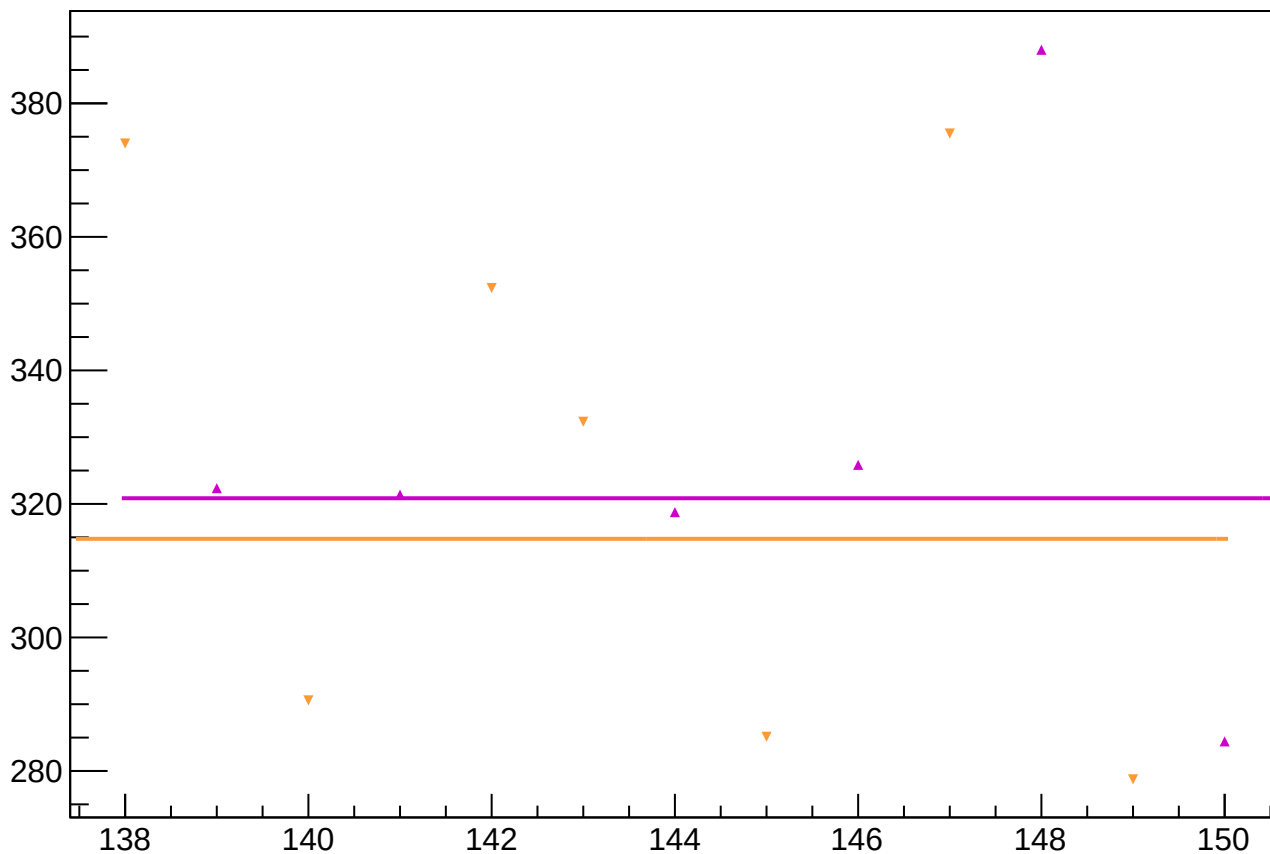
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 257.740+/-146.358  $\chi^2/\text{NDF}$ : 10.6/5

Out: -238.235+/-142.517  $\chi^2/\text{NDF}$ : 3.6/6

All: 3.159+/-102.106  $\chi^2/\text{NDF}$ : 20.1/12

asym\_sam\_15\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 314.774+/-0.101  $\chi^2/\text{NDF}$ :144654.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 320.850+/-0.103  $\chi^2/\text{NDF}$ :76221.2/5

Left: 317.731+/-0.072  $\chi^2/\text{NDF}$ : 222645.1/12

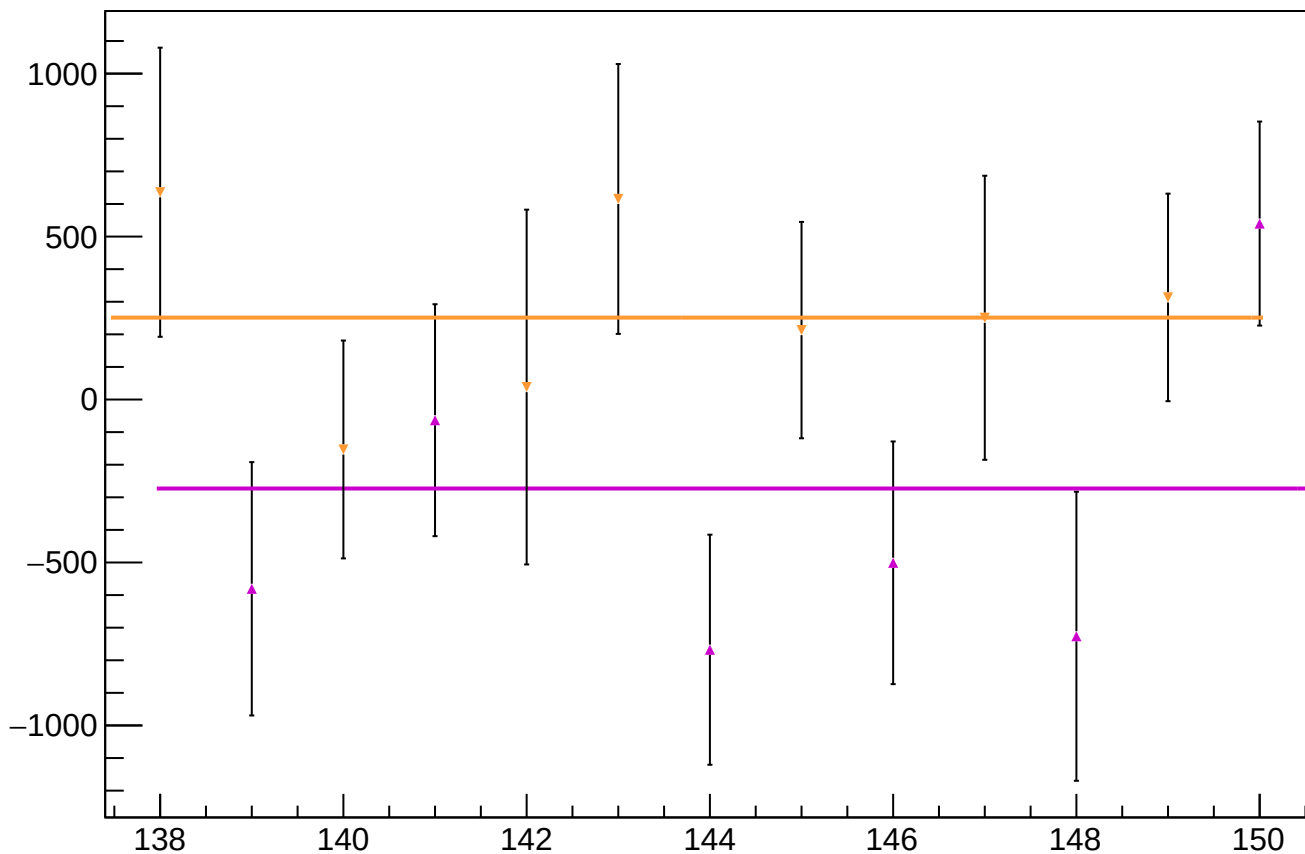
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 320.850+/-0.103  $\chi^2/\text{NDF}$ :76221.2/5

Out: 314.774+/-0.101  $\chi^2/\text{NDF}$ :144654.6/6

All: 317.731+/-0.072  $\chi^2/\text{NDF}$ : 222645.1/12

# asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 251.339+/-145.170  $\chi^2/\text{NDF}$ : 3.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -273.048+/-148.991  $\chi^2/\text{NDF}$ : 11.1/5

Left: -4.043+/-103.975  $\chi^2/\text{NDF}$ : 20.7/12

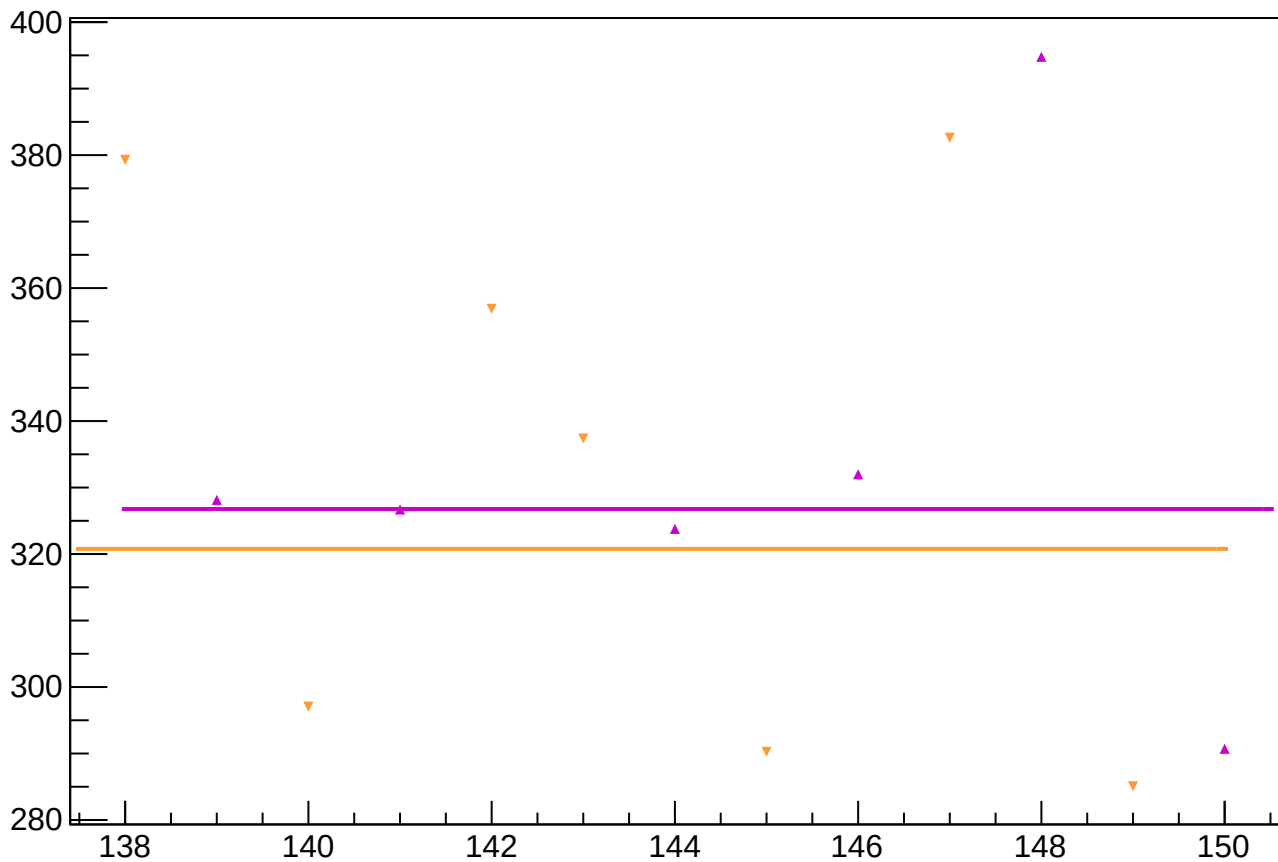
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -273.048+/-148.991  $\chi^2/\text{NDF}$ : 11.1/5

Out: 251.339+/-145.170  $\chi^2/\text{NDF}$ : 3.2/6

All: -4.043+/-103.975  $\chi^2/\text{NDF}$ : 20.7/12

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 320.777+/-0.103  $\chi^2/\text{NDF}$ :139233.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 326.774+/-0.105  $\chi^2/\text{NDF}$ :74154.1/5

Left: 323.697+/-0.074  $\chi^2/\text{NDF}$ : 215049.4/12

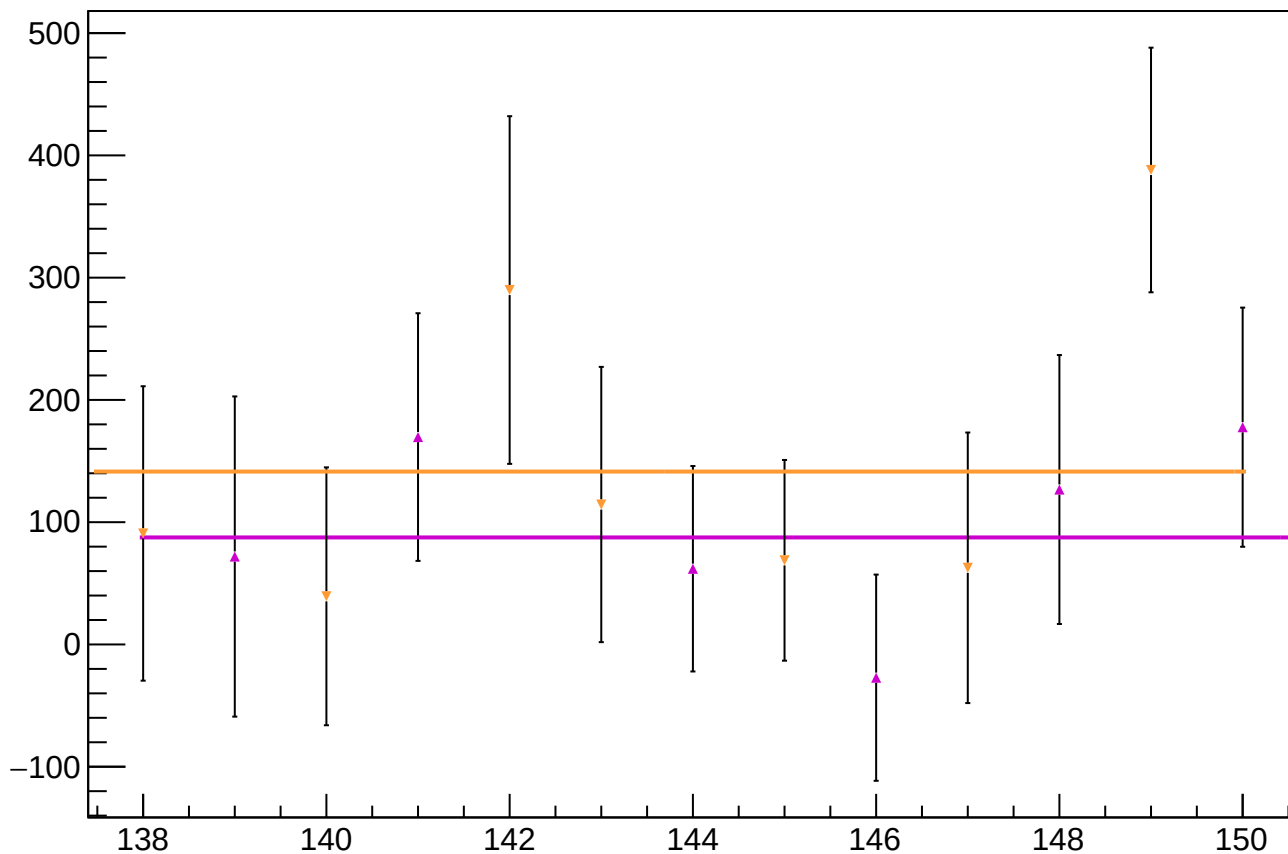
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 326.774+/-0.105  $\chi^2/\text{NDF}$ :74154.1/5

Out: 320.777+/-0.103  $\chi^2/\text{NDF}$ :139233.1/6

All: 323.697+/-0.074  $\chi^2/\text{NDF}$ : 215049.4/12

reg\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 141.393+/-40.247  $\chi^2/\text{NDF}$ : 9.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 87.533+/-39.989  $\chi^2/\text{NDF}$ : 3.6/5

Left: 114.289+/-28.367  $\chi^2/\text{NDF}$ : 14.1/12

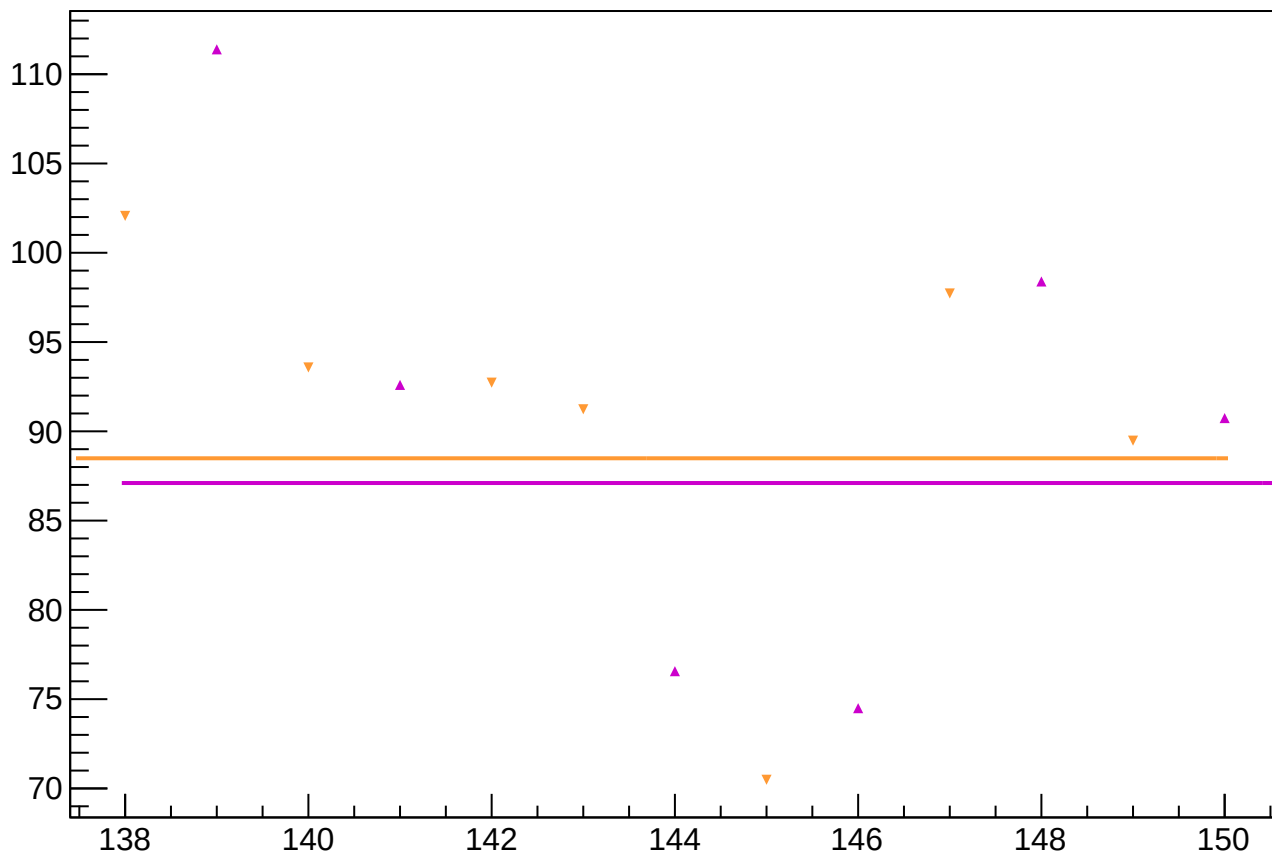
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 87.533+/-39.989  $\chi^2/\text{NDF}$ : 3.6/5

Out: 141.393+/-40.247  $\chi^2/\text{NDF}$ : 9.6/6

All: 114.289+/-28.367  $\chi^2/\text{NDF}$ : 14.1/12

reg\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 88.490+/-0.028  $\chi^2/\text{NDF}$ :143397.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 87.105+/-0.028  $\chi^2/\text{NDF}$ :174722.1/5

Left: 87.793+/-0.020  $\chi^2/\text{NDF}$ : 319312.1/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

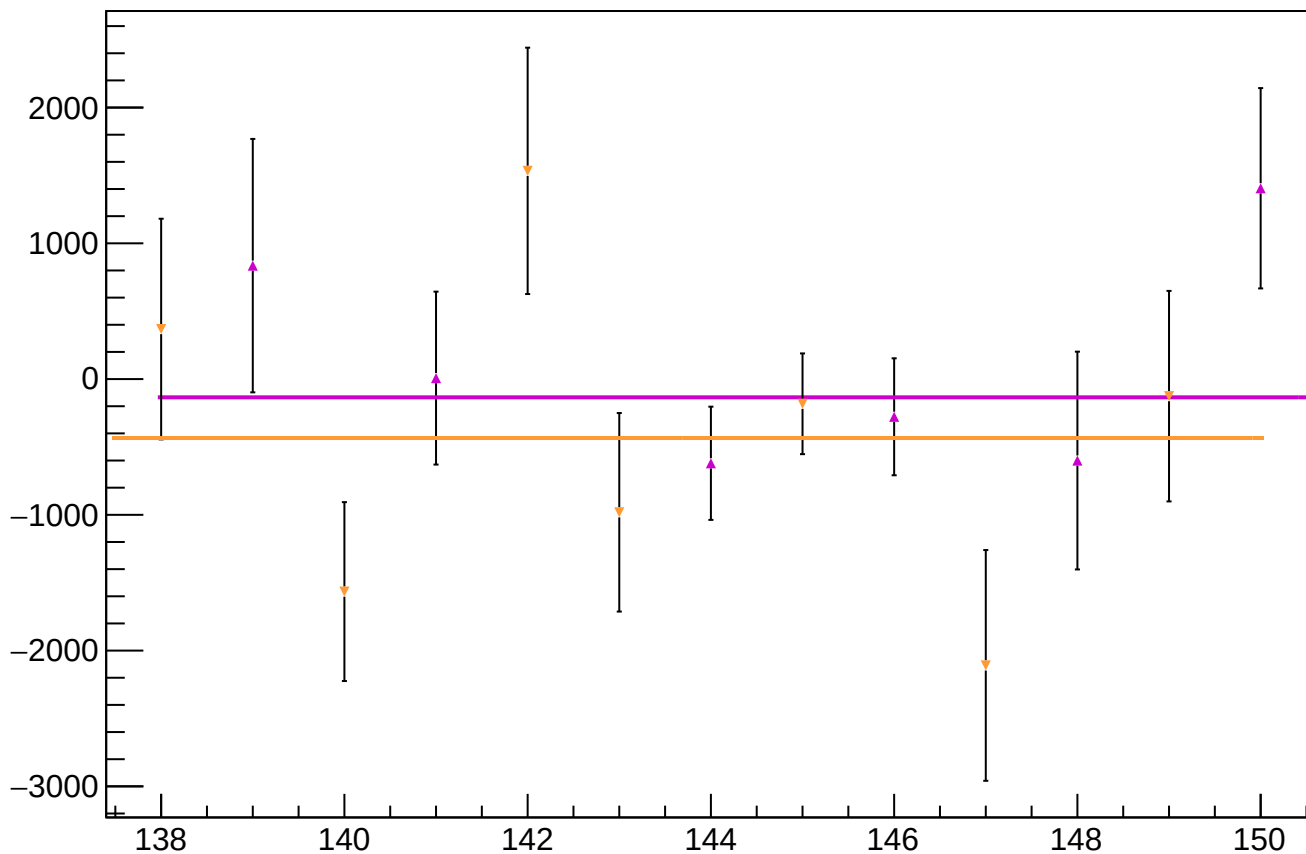
In: 87.105+/-0.028  $\chi^2/\text{NDF}$ :174722.1/5

Out: 88.490+/-0.028  $\chi^2/\text{NDF}$ :143397.6/6

All: 87.793+/-0.020  $\chi^2/\text{NDF}$ : 319312.1/12



asym\_sam\_26\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -434.058+/-241.014  $\chi^2/\text{NDF}$ :13.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -134.414+/-234.765  $\chi^2/\text{NDF}$ :7.3/5

Left: -280.301+/-168.170  $\chi^2/\text{NDF}$ : 21.8/12

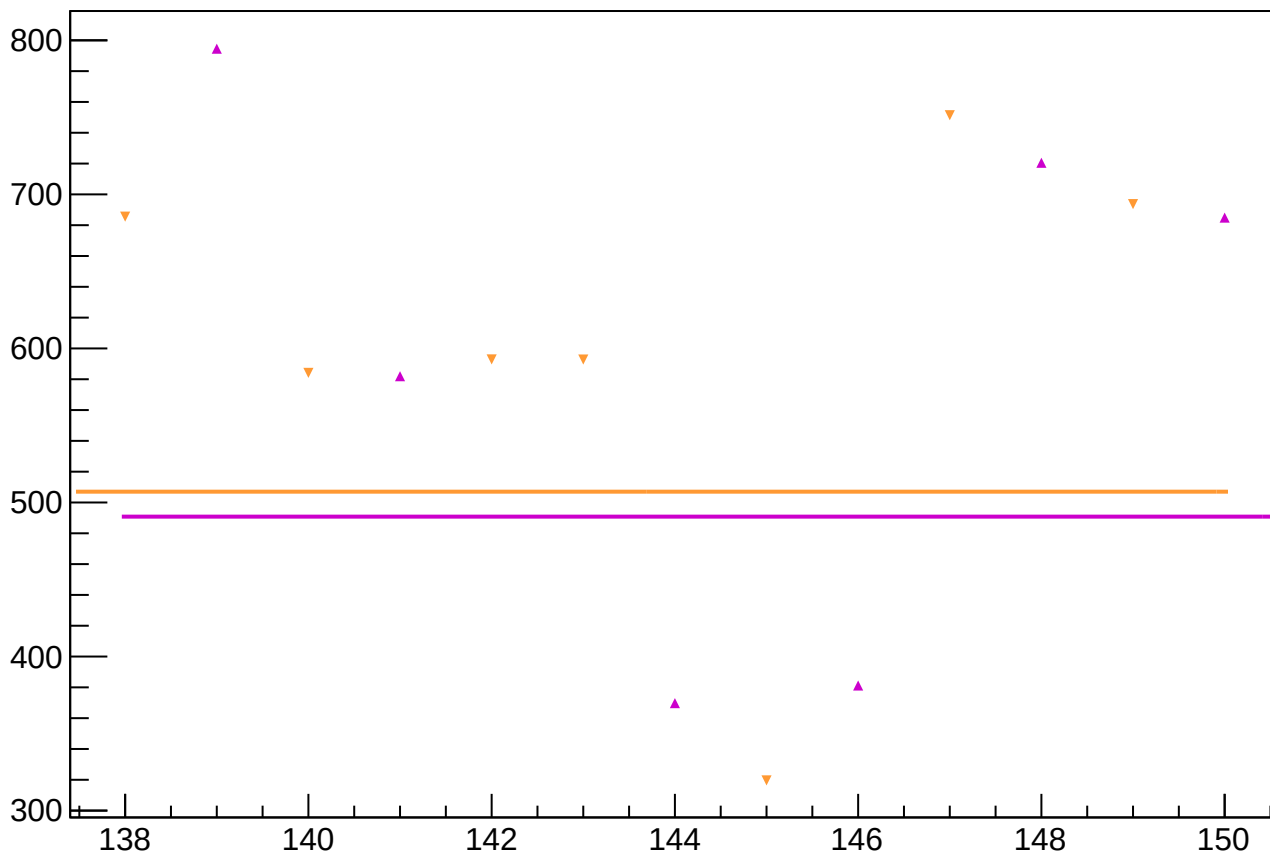
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -134.414+/-234.765  $\chi^2/\text{NDF}$ :7.3/5

Out: -434.058+/-241.014  $\chi^2/\text{NDF}$ :13.7/6

All: -280.301+/-168.170  $\chi^2/\text{NDF}$ : 21.8/12

asym\_sam\_26\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 507.022+/-0.170  $\chi^2/\text{NDF}$ :960925.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 490.819+/-0.166  $\chi^2/\text{NDF}$ :853298.9/5

Left: 498.708+/-0.119  $\chi^2/\text{NDF}$ : 1818862.4/12

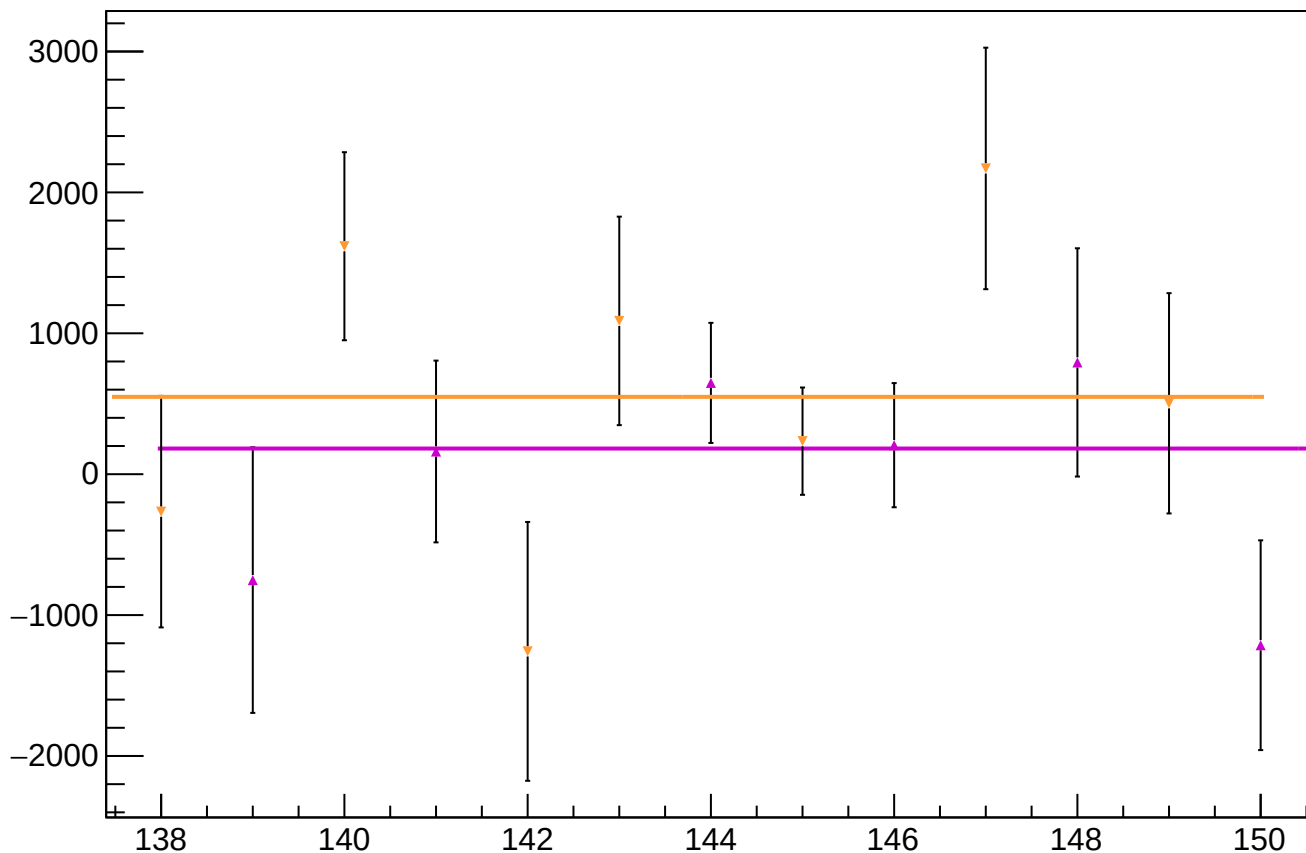
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 490.819+/-0.166  $\chi^2/\text{NDF}$ :853298.9/5

Out: 507.022+/-0.170  $\chi^2/\text{NDF}$ :960925.3/6

All: 498.708+/-0.119  $\chi^2/\text{NDF}$ : 1818862.4/12

asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 548.917+/-245.207  $\chi^2/\text{NDF}$ :12.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 182.043+/-238.943  $\chi^2/\text{NDF}$ :6.3/5

Left: 360.734+/-171.130  $\chi^2/\text{NDF}$ : 19.6/12

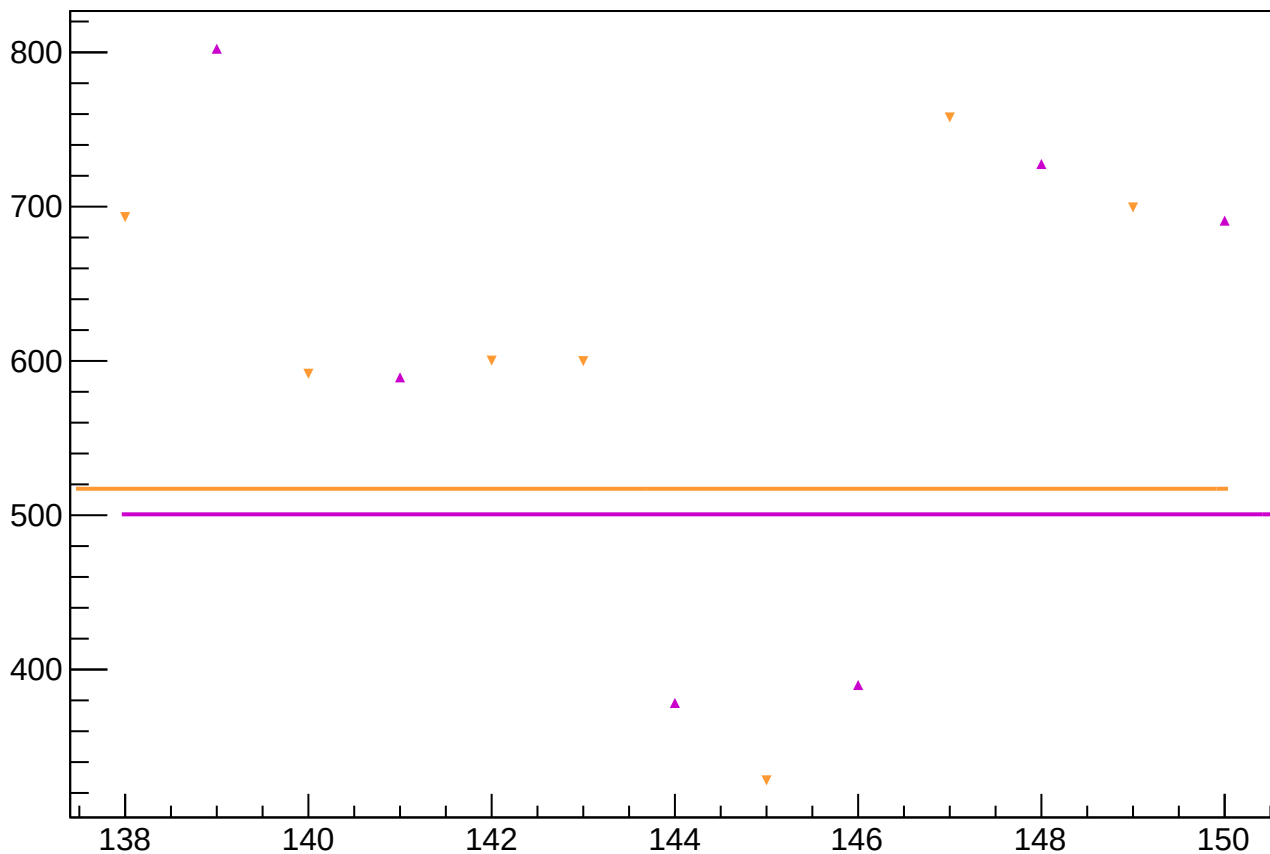
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 182.043+/-238.943  $\chi^2/\text{NDF}$ :6.3/5

Out: 548.917+/-245.207  $\chi^2/\text{NDF}$ :12.2/6

All: 360.734+/-171.130  $\chi^2/\text{NDF}$ : 19.6/12

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 517.161+/-0.173  $\chi^2/\text{NDF}$ : 917212.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 500.587+/-0.169  $\chi^2/\text{NDF}$ : 821459.9/5

Left: 508.660+/-0.121  $\chi^2/\text{NDF}$ : 1743358.9/12

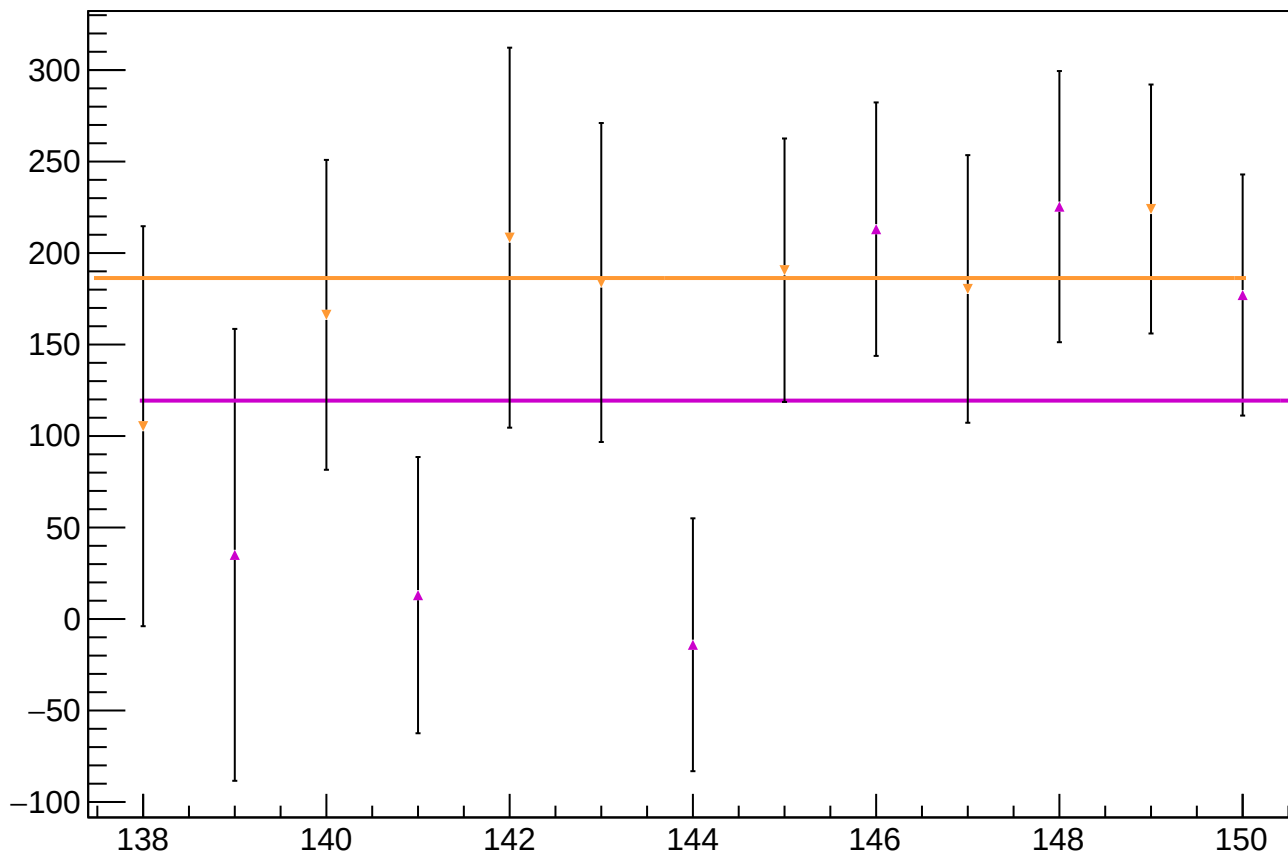
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 500.587+/-0.169  $\chi^2/\text{NDF}$ : 821459.9/5

Out: 517.161+/-0.173  $\chi^2/\text{NDF}$ : 917212.4/6

All: 508.660+/-0.121  $\chi^2/\text{NDF}$ : 1743358.9/12

reg\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 186.344+/-30.957  $\chi^2/\text{NDF}$ :1.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 119.357+/-30.550  $\chi^2/\text{NDF}$ :10.8/5

Left: 152.407+/-21.744  $\chi^2/\text{NDF}$ : 14.2/12

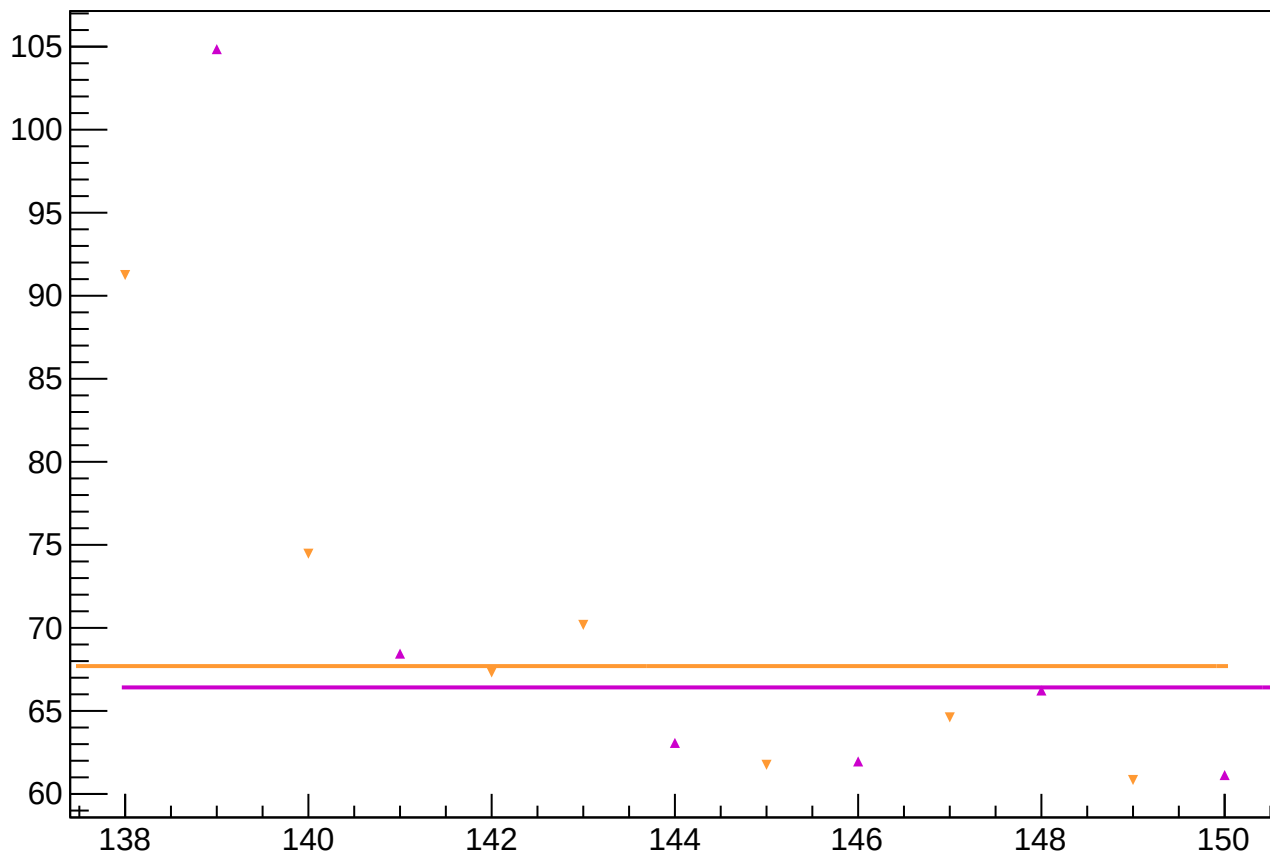
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 119.357+/-30.550  $\chi^2/\text{NDF}$ :10.8/5

Out: 186.344+/-30.957  $\chi^2/\text{NDF}$ :1.0/6

All: 152.407+/-21.744  $\chi^2/\text{NDF}$ : 14.2/12

reg\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 67.700+/-0.022  $\chi^2/\text{NDF}$ :144777.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 66.416+/-0.022  $\chi^2/\text{NDF}$ :221030.5/5

Left: 67.049+/-0.015  $\chi^2/\text{NDF}$ : 367550.3/12

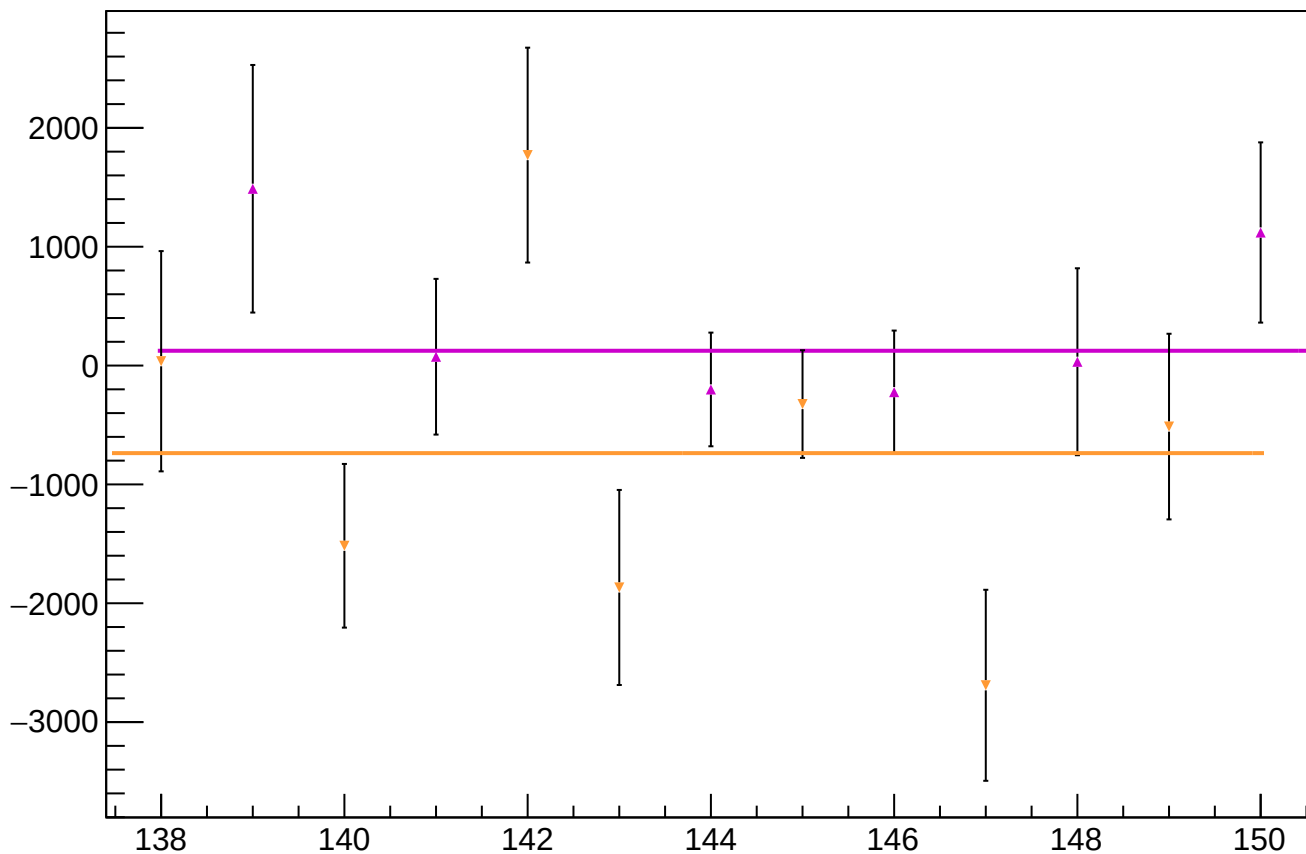
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 66.416+/-0.022  $\chi^2/\text{NDF}$ :221030.5/5

Out: 67.700+/-0.022  $\chi^2/\text{NDF}$ :144777.8/6

All: 67.049+/-0.015  $\chi^2/\text{NDF}$ : 367550.3/12

asym\_sam\_37\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -736.728+/-266.830  $\chi^2/\text{NDF}$ :18.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 124.550+/-260.732  $\chi^2/\text{NDF}$ :4.4/5

Left: -296.135+/-186.484  $\chi^2/\text{NDF}$ : 28.1/12

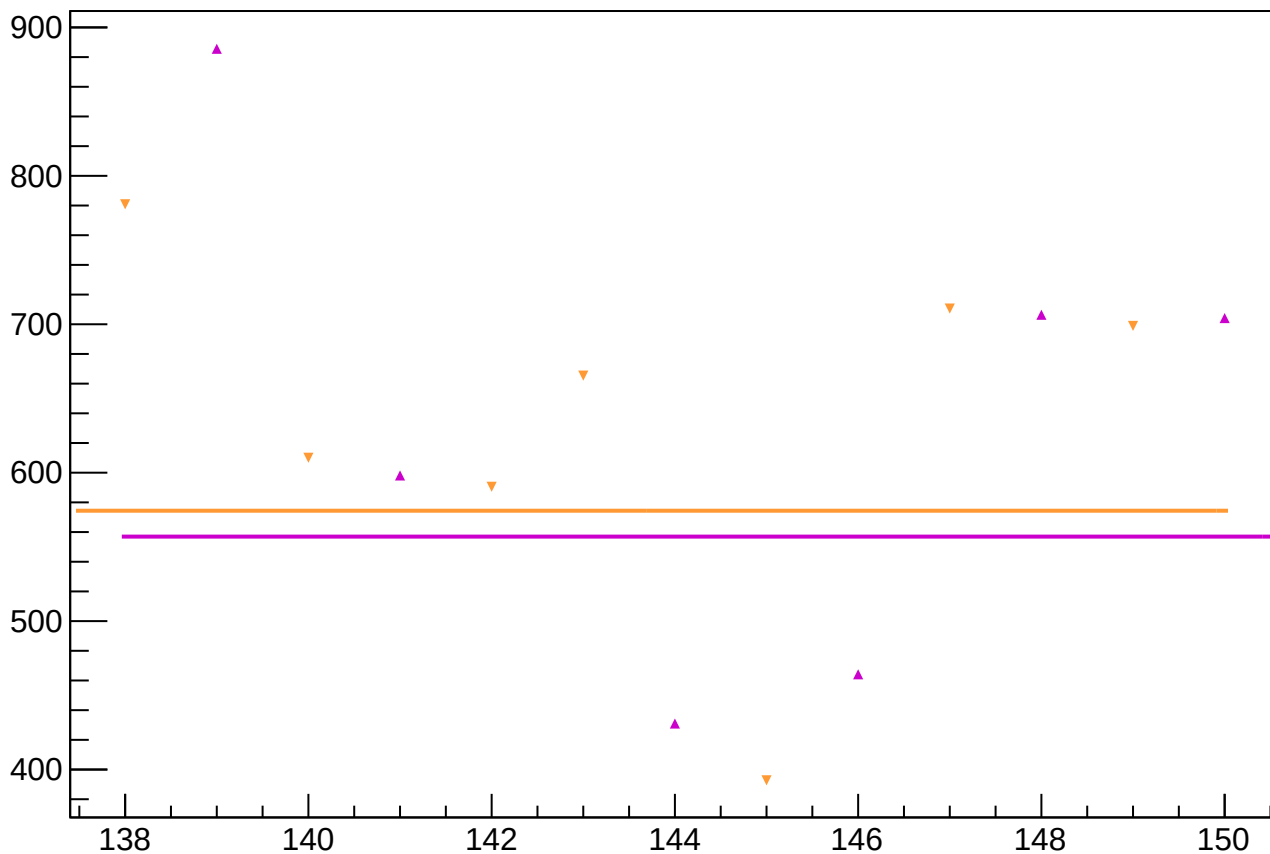
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 124.550+/-260.732  $\chi^2/\text{NDF}$ :4.4/5

Out: -736.728+/-266.830  $\chi^2/\text{NDF}$ :18.4/6

All: -296.135+/-186.484  $\chi^2/\text{NDF}$ : 28.1/12

asym\_sam\_37\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 574.383+/-0.189  $\chi^2/\text{NDF}$ : 559915.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 556.938+/-0.184  $\chi^2/\text{NDF}$ : 557555.6/5

Left: 565.459+/-0.132  $\chi^2/\text{NDF}$ : 1121844.8/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

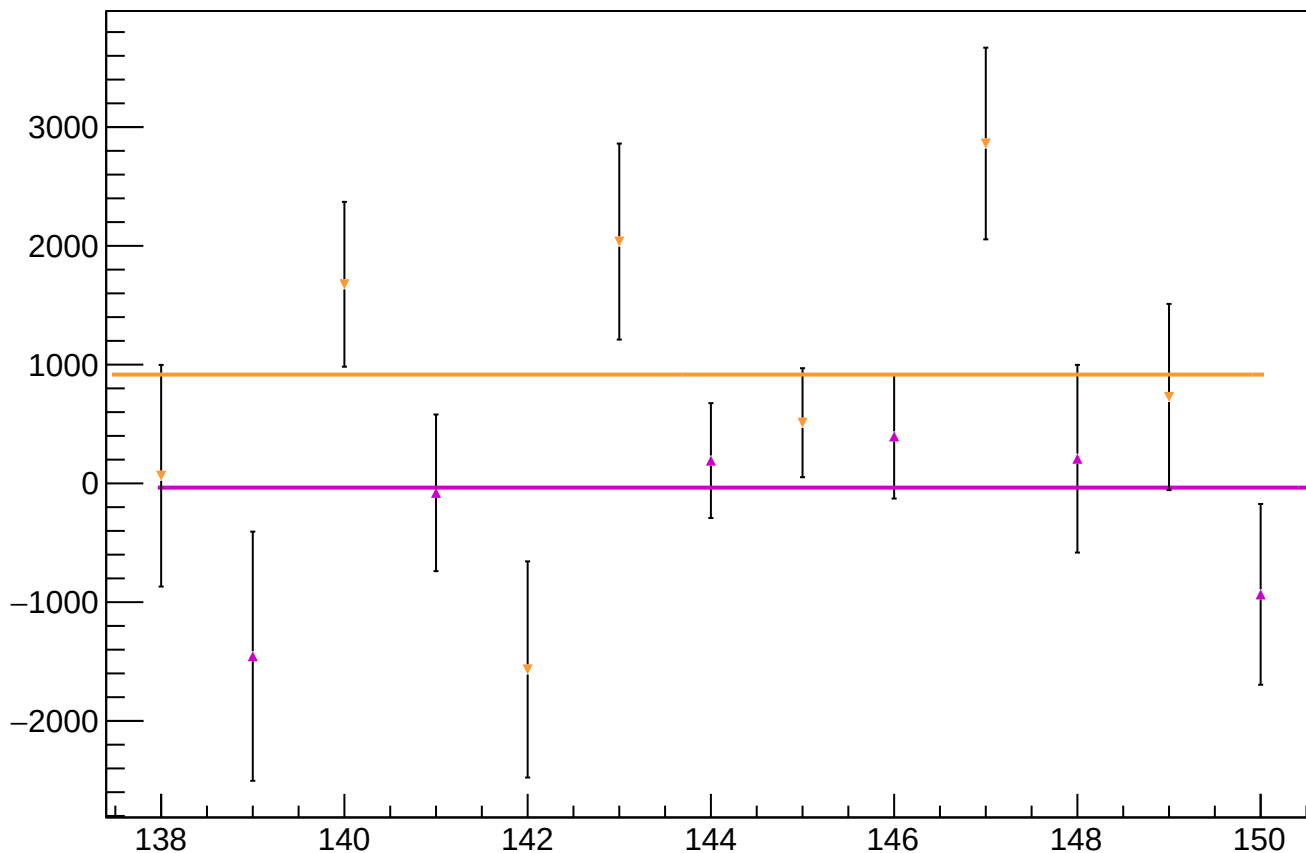
In: 556.938+/-0.184  $\chi^2/\text{NDF}$ : 557555.6/5

Out: 574.383+/-0.189  $\chi^2/\text{NDF}$ : 559915.5/6

All: 565.459+/-0.132  $\chi^2/\text{NDF}$ : 1121844.8/12



asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 916.396+/-269.071  $\chi^2/\text{NDF}$ :18.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -35.761+/-262.901  $\chi^2/\text{NDF}$ :4.2/5

Left: 429.275+/-188.043  $\chi^2/\text{NDF}$ : 28.6/12

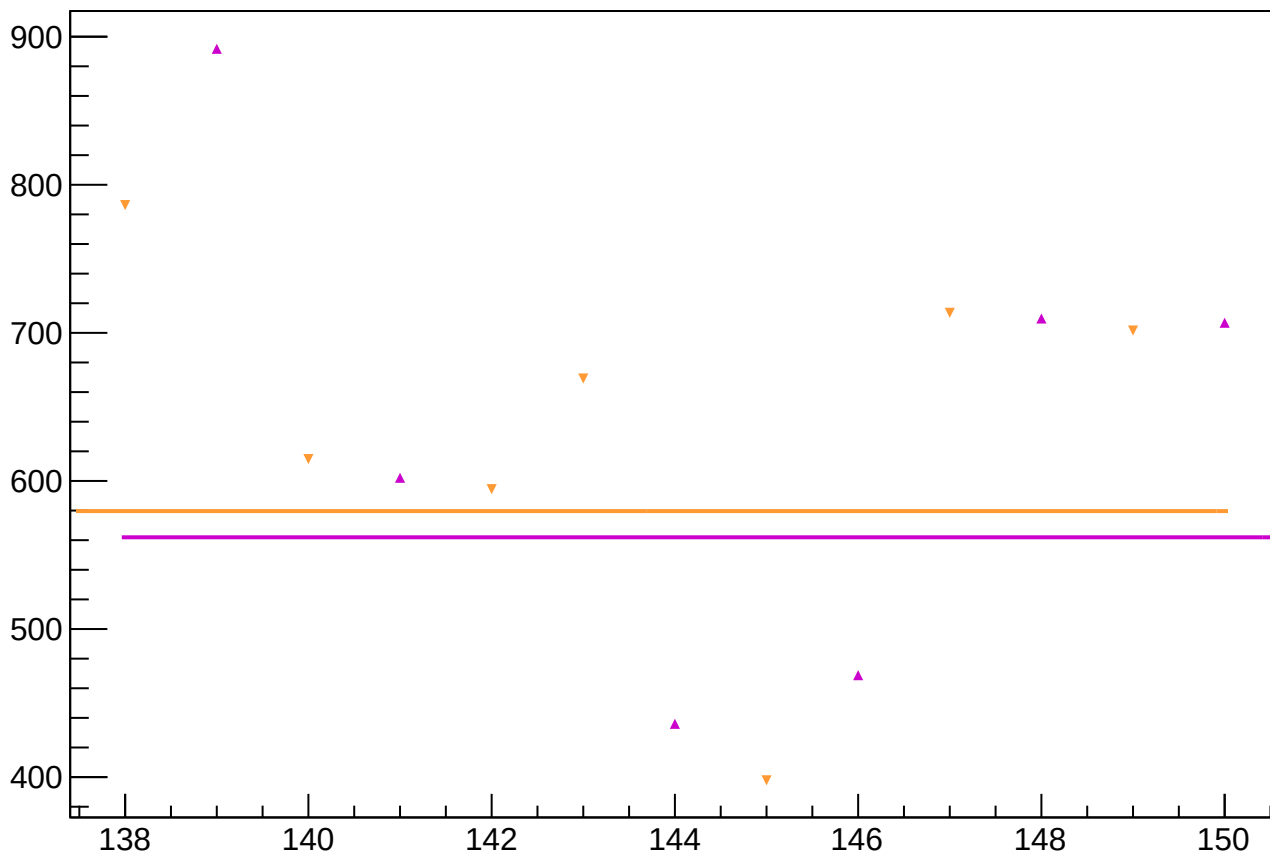
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -35.761+/-262.901  $\chi^2/\text{NDF}$ :4.2/5

Out: 916.396+/-269.071  $\chi^2/\text{NDF}$ :18.0/6

All: 429.275+/-188.043  $\chi^2/\text{NDF}$ : 28.6/12

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 579.644+/-0.190  $\chi^2/\text{NDF}$ :544649.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 561.945+/-0.186  $\chi^2/\text{NDF}$ :546714.0/5

Left: 570.589+/-0.133  $\chi^2/\text{NDF}$ : 1095791.0/12

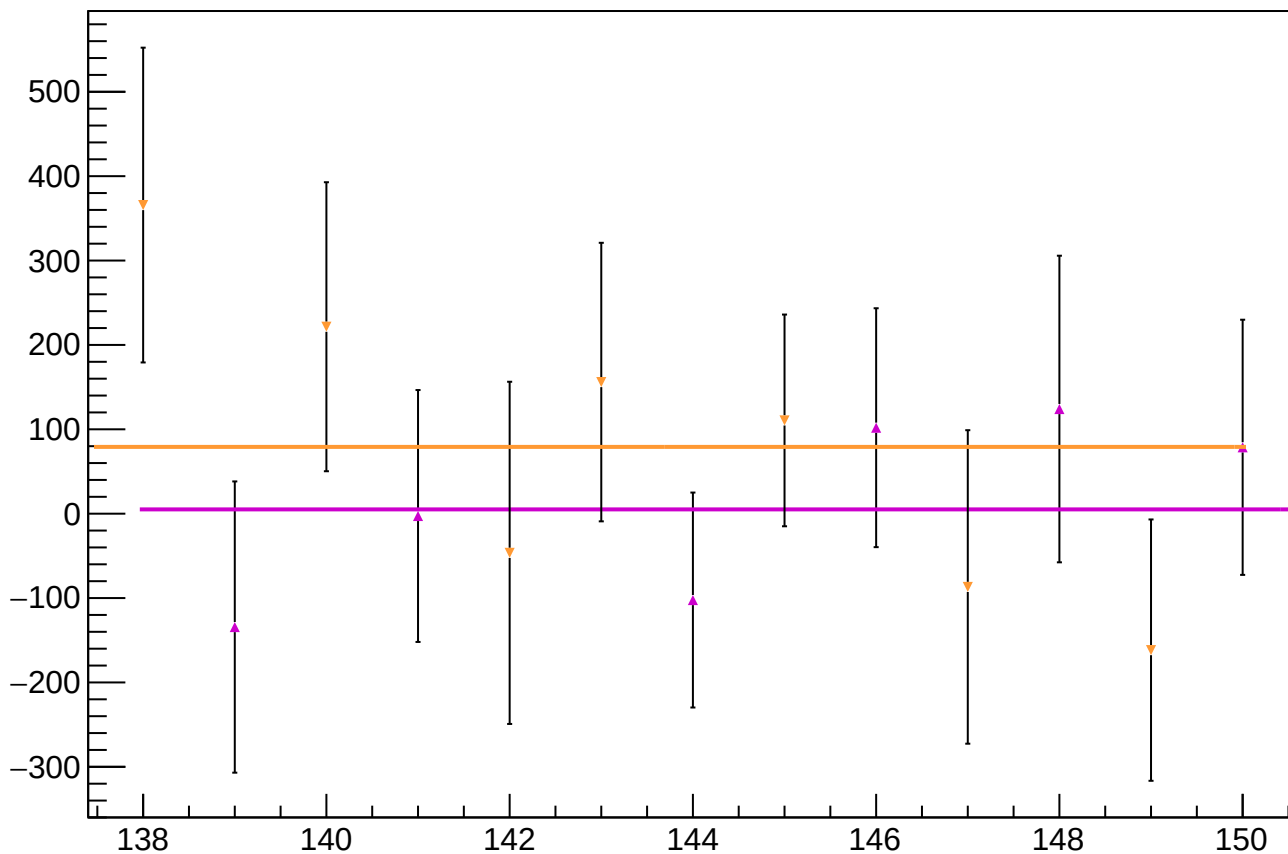
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 561.945+/-0.186  $\chi^2/\text{NDF}$ :546714.0/5

Out: 579.644+/-0.190  $\chi^2/\text{NDF}$ :544649.4/6

All: 570.589+/-0.133  $\chi^2/\text{NDF}$ : 1095791.0/12

reg\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 79.153+/-62.250  $\chi^2/\text{NDF}$ :6.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5.083+/-61.543  $\chi^2/\text{NDF}$ :2.5/5

Left: 41.695+/-43.765  $\chi^2/\text{NDF}$ : 10.1/12

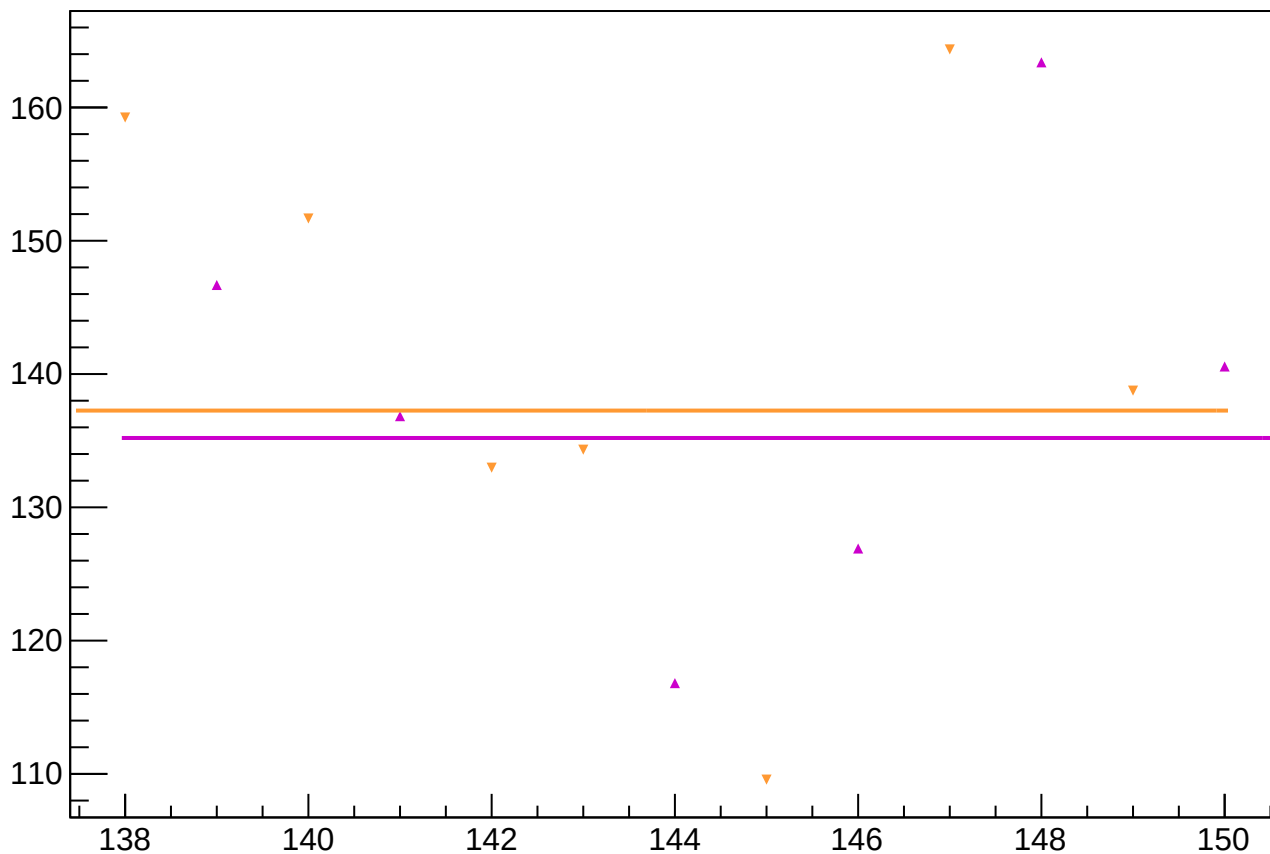
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 5.083+/-61.543  $\chi^2/\text{NDF}$ :2.5/5

Out: 79.153+/-62.250  $\chi^2/\text{NDF}$ :6.9/6

All: 41.695+/-43.765  $\chi^2/\text{NDF}$ : 10.1/12

reg\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 137.259+/-0.044  $\chi^2/\text{NDF}$ :183608.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 135.203+/-0.044  $\chi^2/\text{NDF}$ :108289.1/5

Left: 136.219+/-0.031  $\chi^2/\text{NDF}$ : 293001.8/12

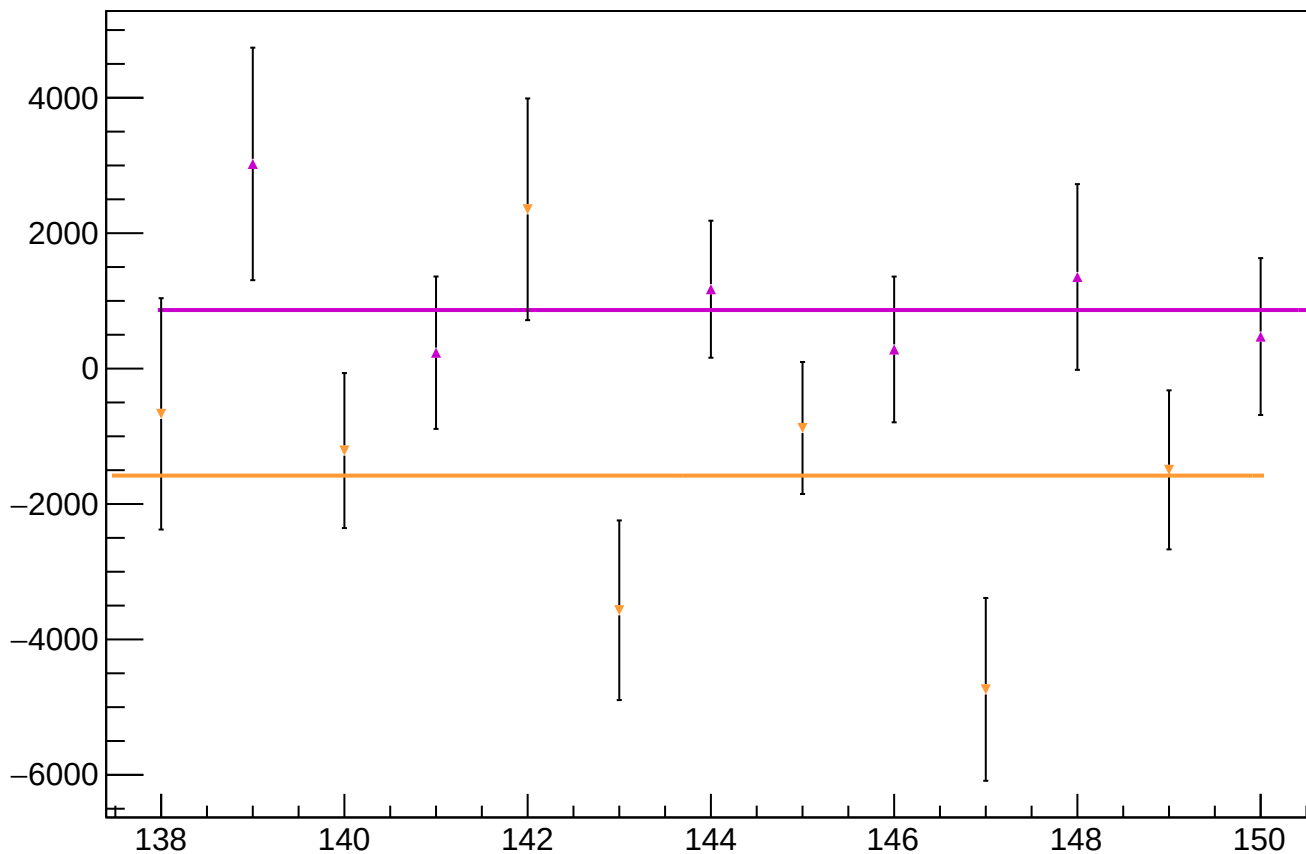
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 135.203+/-0.044  $\chi^2/\text{NDF}$ :108289.1/5

Out: 137.259+/-0.044  $\chi^2/\text{NDF}$ :183608.9/6

All: 136.219+/-0.031  $\chi^2/\text{NDF}$ : 293001.8/12

asym\_sam\_48\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1580.025+/-478.158  $\chi^2/\text{NDF}$ :14.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 864.922+/-485.316  $\chi^2/\text{NDF}$ :2.5/5

Left: -375.716+/-340.611  $\chi^2/\text{NDF}$ : 29.8/12

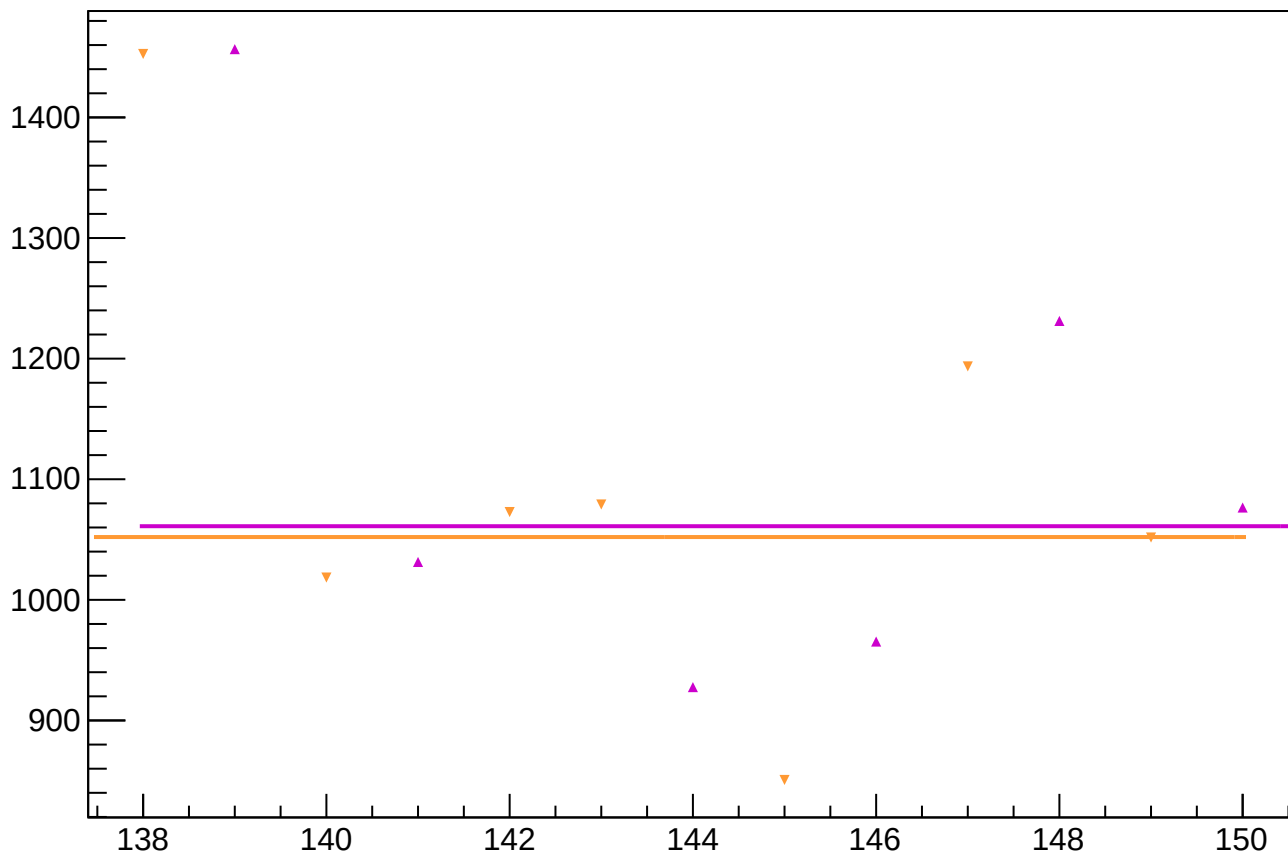
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 864.922+/-485.316  $\chi^2/\text{NDF}$ :2.5/5

Out: -1580.025+/-478.158  $\chi^2/\text{NDF}$ :14.4/6

All: -375.716+/-340.611  $\chi^2/\text{NDF}$ : 29.8/12

asym\_sam\_48\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1052.073+/-0.338  $\chi^2/\text{NDF}$ :220180.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1061.056+/-0.343  $\chi^2/\text{NDF}$ :189271.0/5

Left: 1056.498+/-0.241  $\chi^2/\text{NDF}$ : 409799.0/12

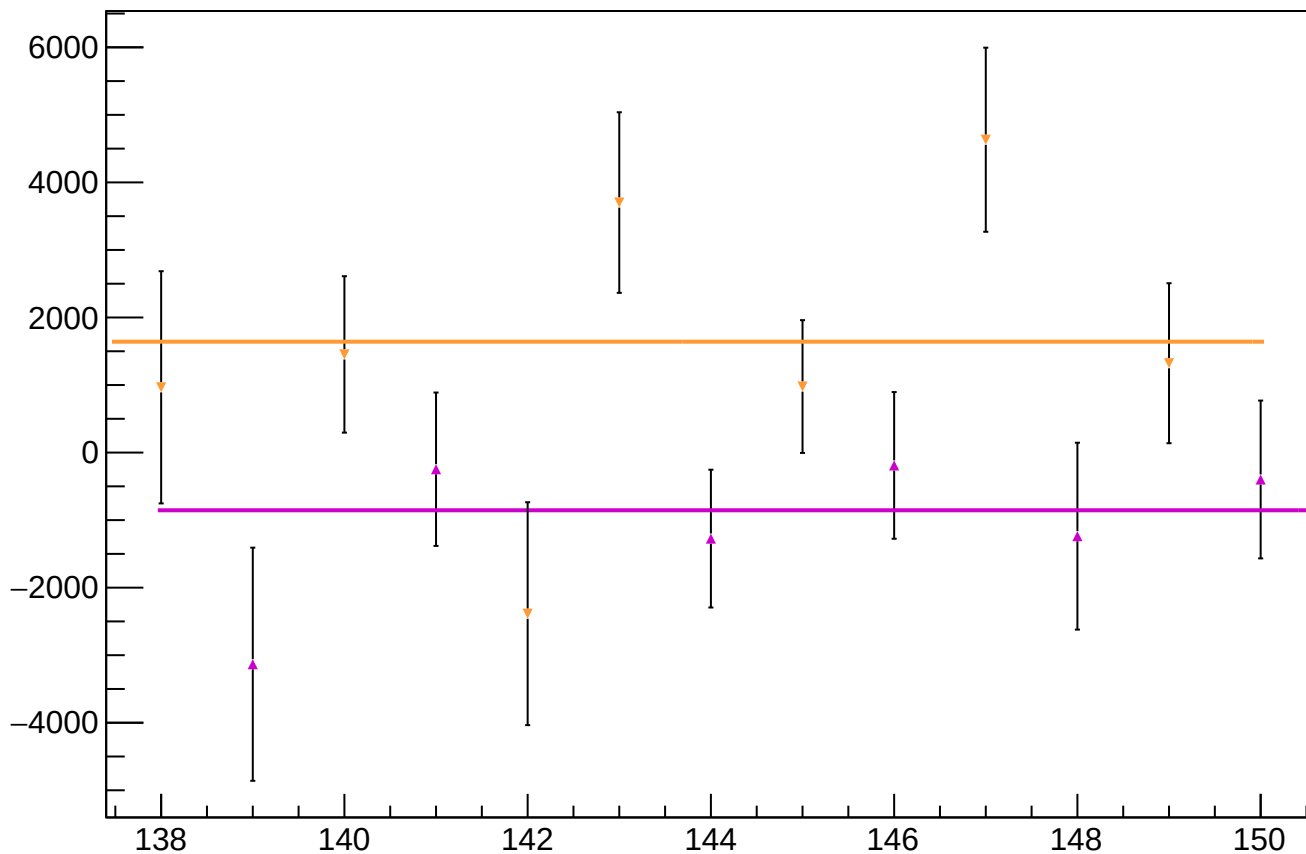
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1061.056+/-0.343  $\chi^2/\text{NDF}$ :189271.0/5

Out: 1052.073+/-0.338  $\chi^2/\text{NDF}$ :220180.4/6

All: 1056.498+/-0.241  $\chi^2/\text{NDF}$ : 409799.0/12

asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1641.466+/-482.369  $\chi^2/\text{NDF}$ :13.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -854.380+/-489.365  $\chi^2/\text{NDF}$ :2.8/5

Left: 411.512+/-343.533  $\chi^2/\text{NDF}$ : 29.9/12

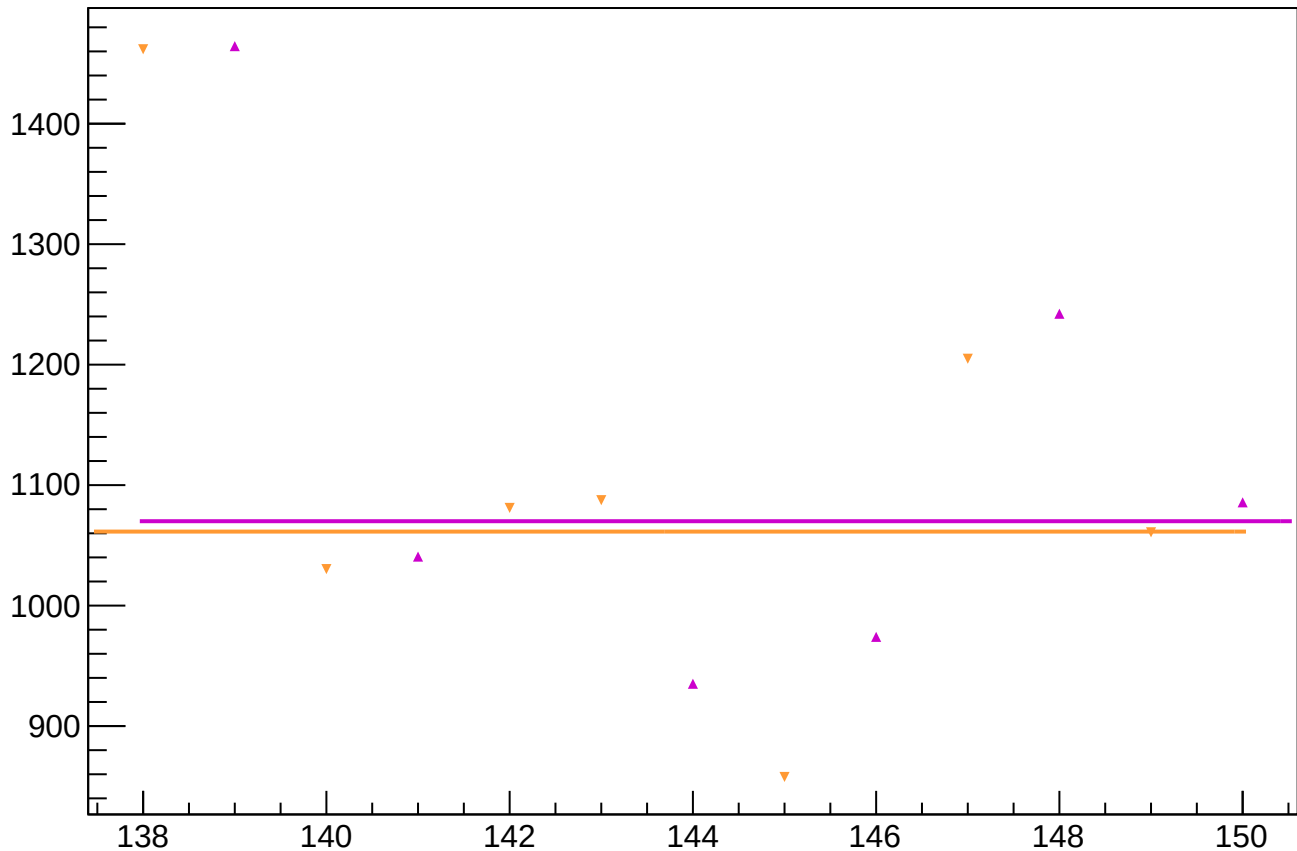
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -854.380+/-489.365  $\chi^2/\text{NDF}$ :2.8/5

Out: 1641.466+/-482.369  $\chi^2/\text{NDF}$ :13.9/6

All: 411.512+/-343.533  $\chi^2/\text{NDF}$ : 29.9/12

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1061.436+/-0.341  $\chi^2/\text{NDF}$ :219031.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1070.042+/-0.346  $\chi^2/\text{NDF}$ :187705.7/5

Left: 1065.677+/-0.243  $\chi^2/\text{NDF}$ : 407050.5/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

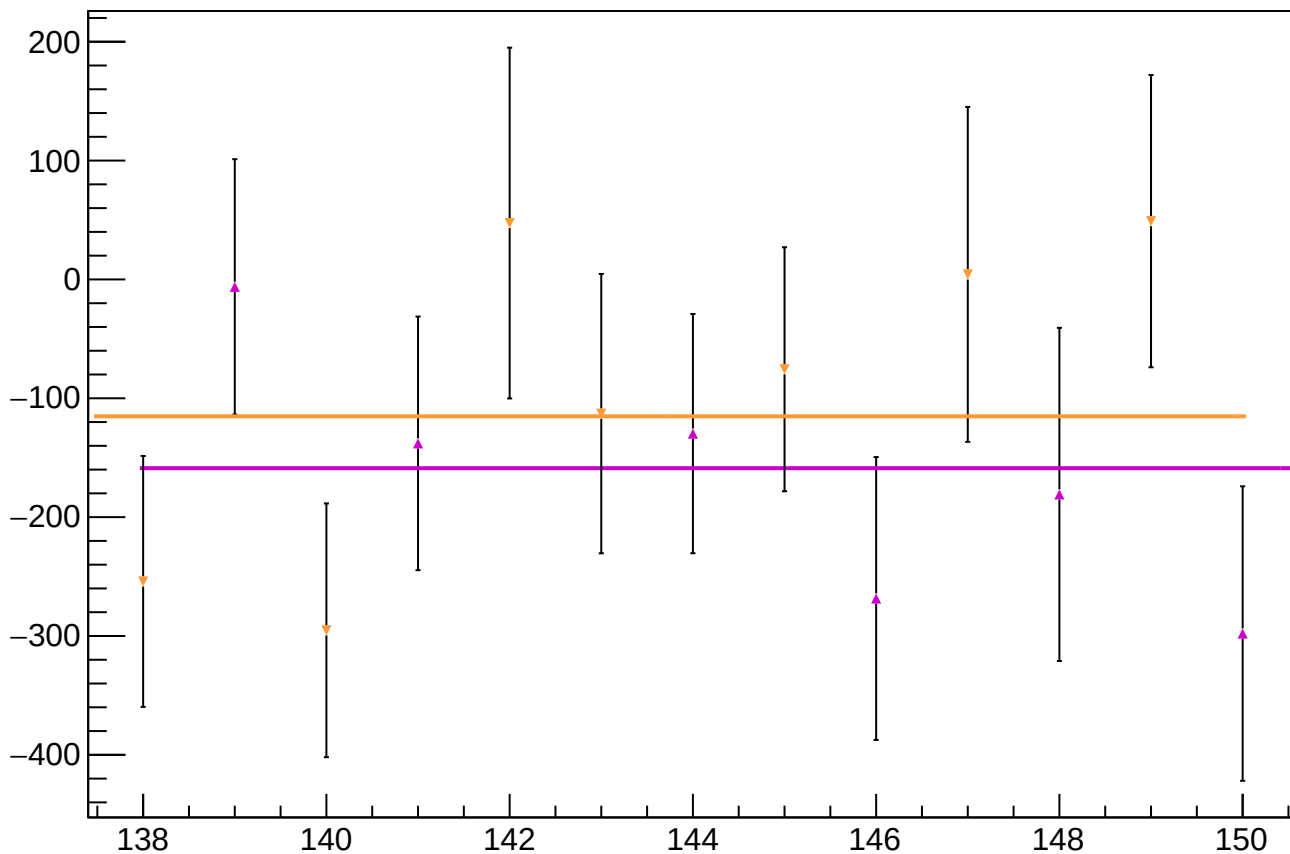
In: 1070.042+/-0.346  $\chi^2/\text{NDF}$ :187705.7/5

Out: 1061.436+/-0.341  $\chi^2/\text{NDF}$ :219031.1/6

All: 1065.677+/-0.243  $\chi^2/\text{NDF}$ : 407050.5/12



reg\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -115.172+/-44.402  $\chi^2/\text{NDF}$ : 8.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -158.818+/-46.636  $\chi^2/\text{NDF}$ : 4.3/5

Left: -135.925+/-32.158  $\chi^2/\text{NDF}$ : 13.2/12

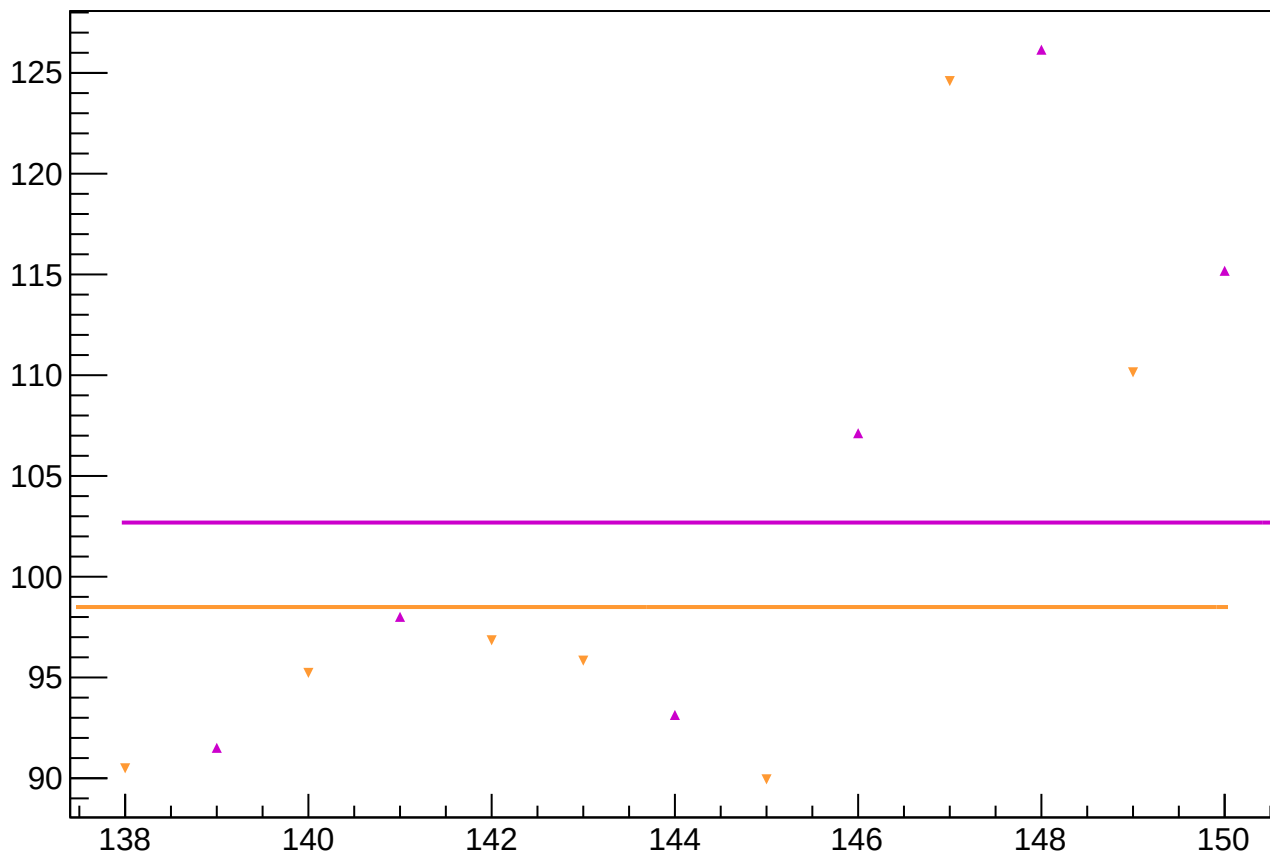
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -158.818+/-46.636  $\chi^2/\text{NDF}$ : 4.3/5

Out: -115.172+/-44.402  $\chi^2/\text{NDF}$ : 8.4/6

All: -135.925+/-32.158  $\chi^2/\text{NDF}$ : 13.2/12

reg\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 98.496+/-0.031  $\chi^2/\text{NDF}$ :115079.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 102.688+/-0.033  $\chi^2/\text{NDF}$ :122661.5/5

Left: 100.489+/-0.023  $\chi^2/\text{NDF}$ : 246217.6/12

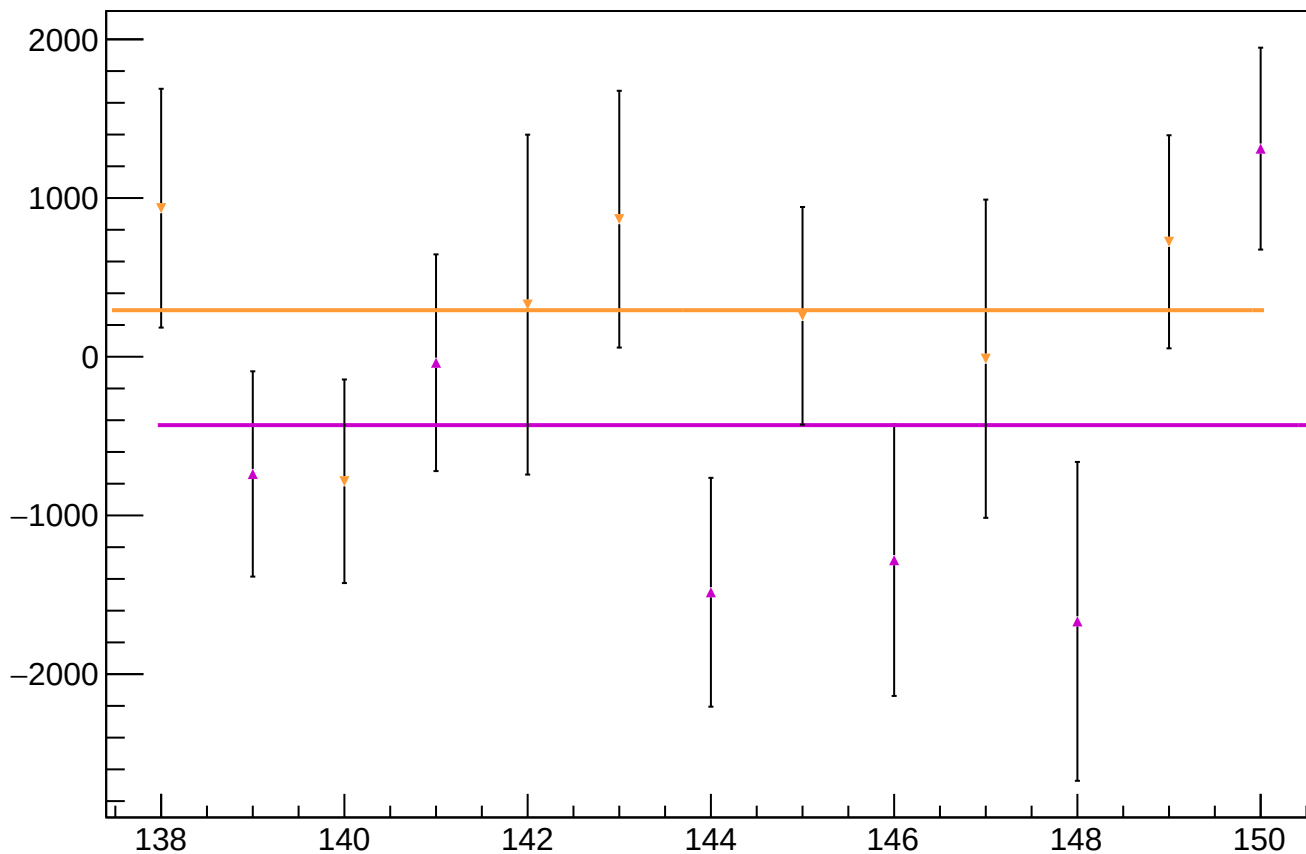
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 102.688+/-0.033  $\chi^2/\text{NDF}$ :122661.5/5

Out: 98.496+/-0.031  $\chi^2/\text{NDF}$ :115079.9/6

All: 100.489+/-0.023  $\chi^2/\text{NDF}$ : 246217.6/12

asym\_sam\_15\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 293.147+/-289.445  $\chi^2/\text{NDF}$ : 4.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -430.973+/-297.639  $\chi^2/\text{NDF}$ : 12.7/5

Left: -58.808+/-207.505  $\chi^2/\text{NDF}$ : 20.3/12

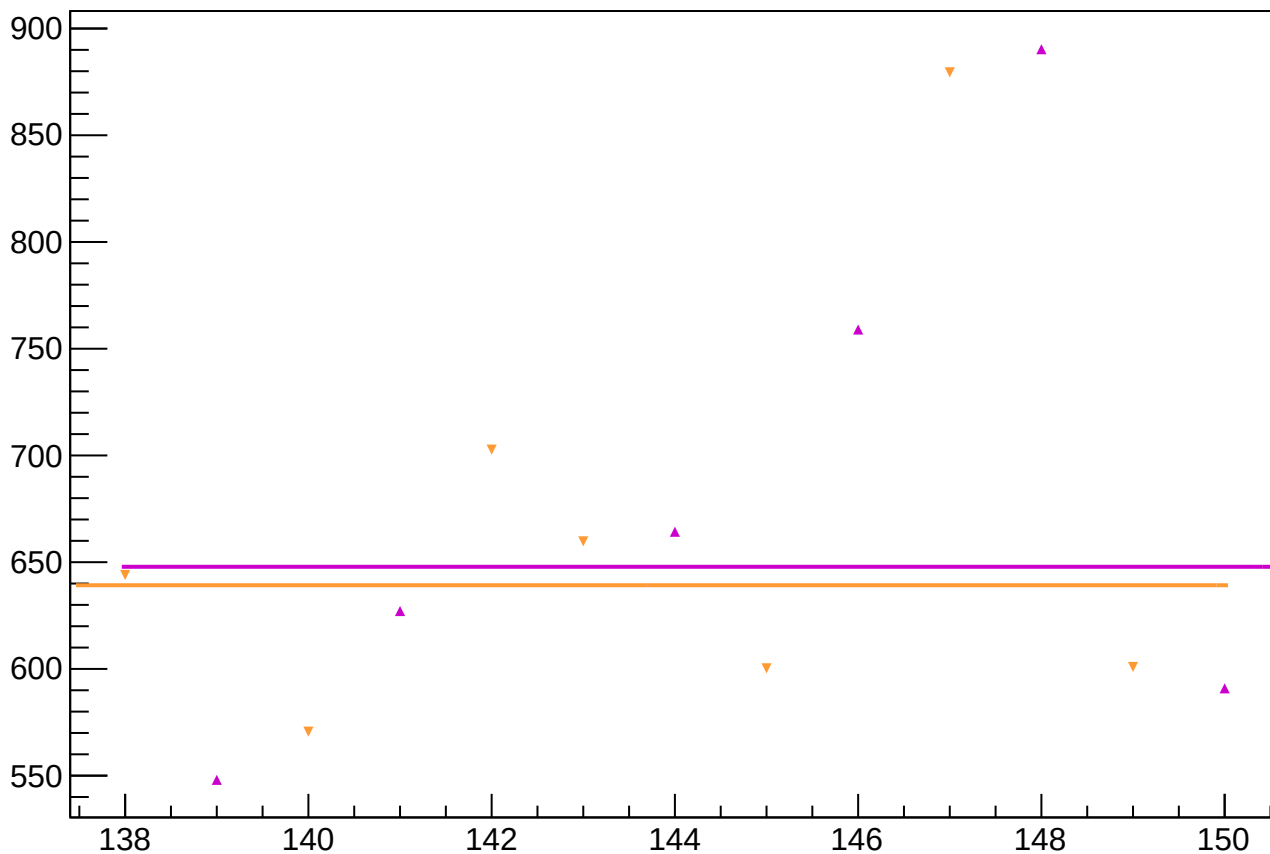
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -430.973+/-297.639  $\chi^2/\text{NDF}$ : 12.7/5

Out: 293.147+/-289.445  $\chi^2/\text{NDF}$ : 4.6/6

All: -58.808+/-207.505  $\chi^2/\text{NDF}$ : 20.3/12

asym\_sam\_15\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 639.198+/-0.205  $\chi^2/\text{NDF}$ :159091.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 647.849+/-0.210  $\chi^2/\text{NDF}$ :216794.2/5

Left: 643.402+/-0.147  $\chi^2/\text{NDF}$ : 376754.2/12

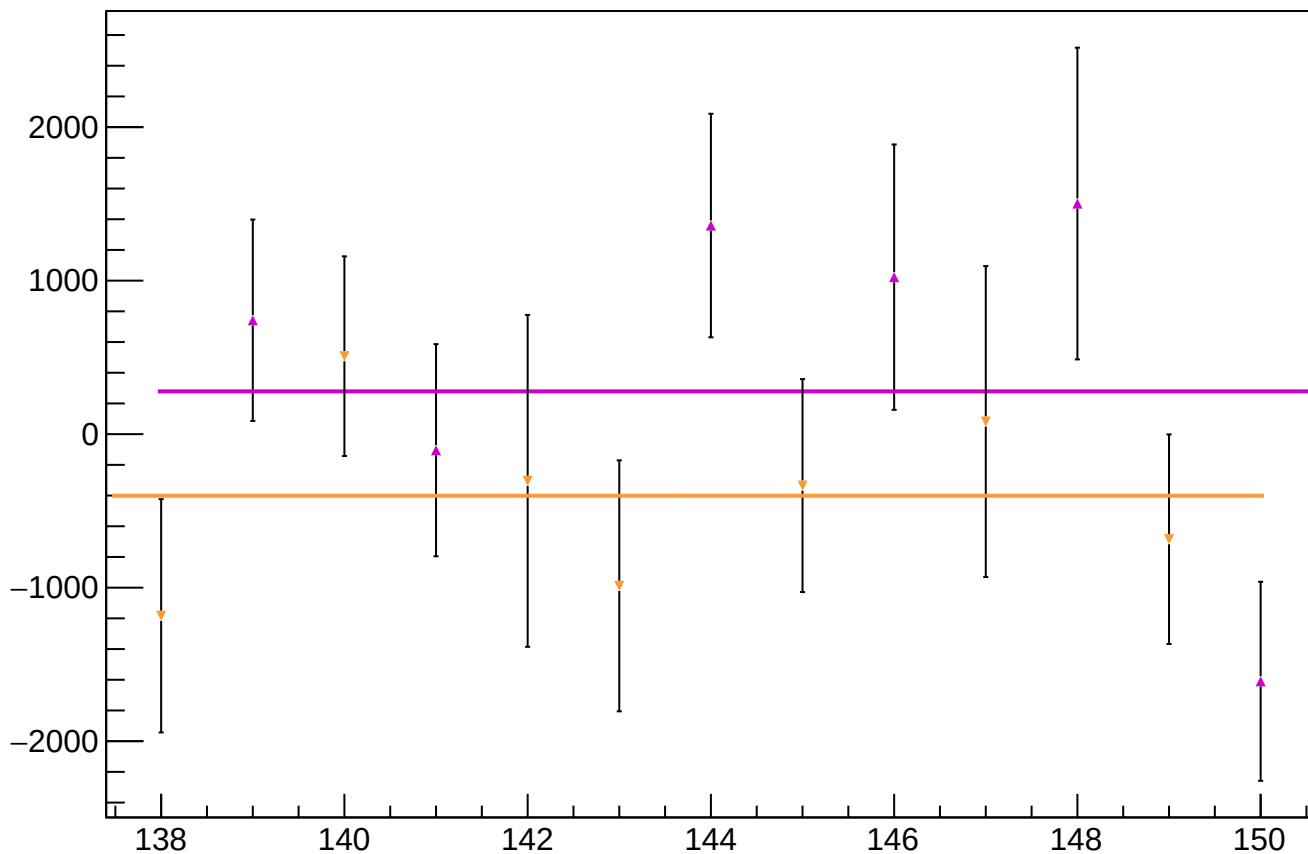
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 647.849+/-0.210  $\chi^2/\text{NDF}$ :216794.2/5

Out: 639.198+/-0.205  $\chi^2/\text{NDF}$ :159091.6/6

All: 643.402+/-0.147  $\chi^2/\text{NDF}$ : 376754.2/12

# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -401.194+/-293.024  $\chi^2/\text{NDF}$ : 3.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 278.705+/-301.614  $\chi^2/\text{NDF}$ : 13.7/5

Left: -71.065+/-210.170  $\chi^2/\text{NDF}$ : 20.3/12

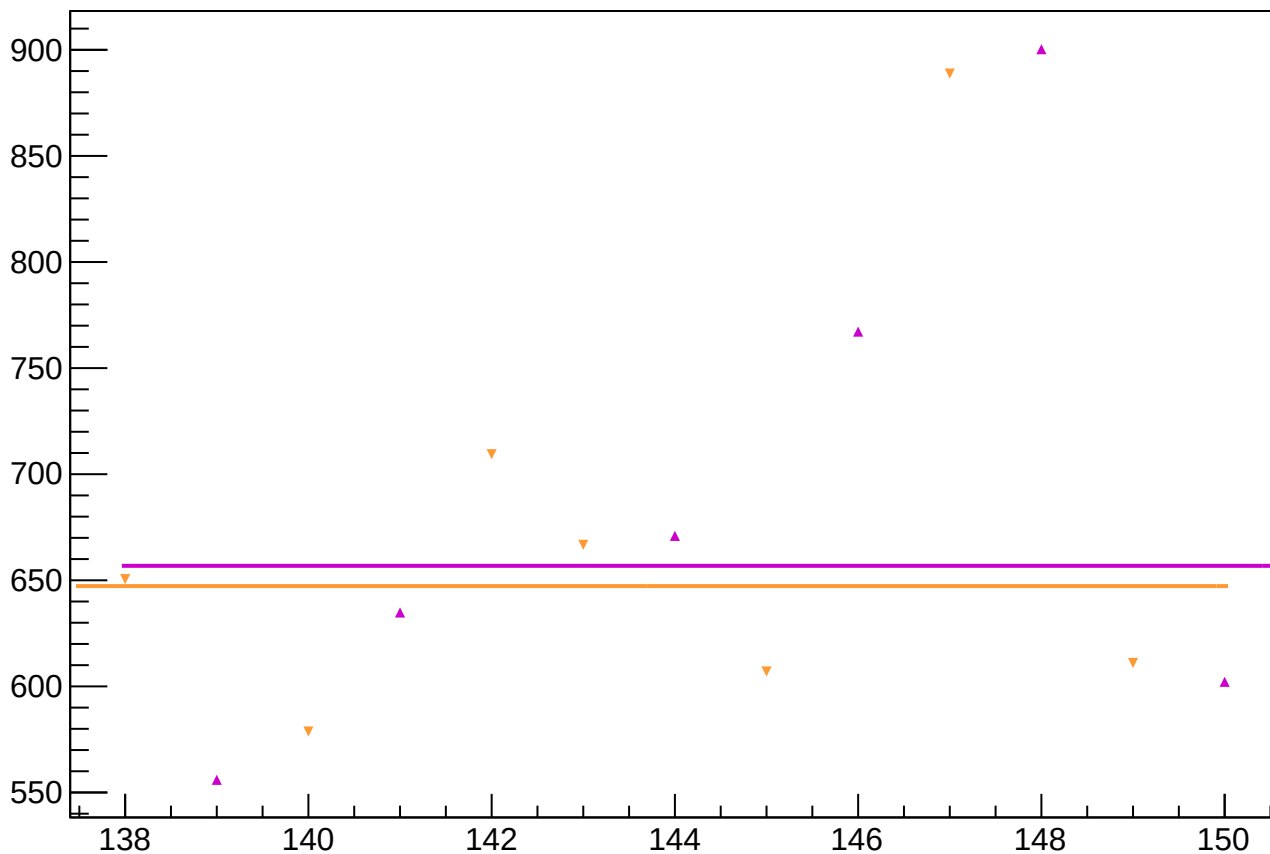
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 278.705+/-301.614  $\chi^2/\text{NDF}$ : 13.7/5

Out: -401.194+/-293.024  $\chi^2/\text{NDF}$ : 3.9/6

All: -71.065+/-210.170  $\chi^2/\text{NDF}$ : 20.3/12

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 647.267+/-0.207  $\chi^2/\text{NDF}$ :156088.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 656.822+/-0.213  $\chi^2/\text{NDF}$ :211912.4/5

Left: 651.906+/-0.149  $\chi^2/\text{NDF}$ : 369033.6/12

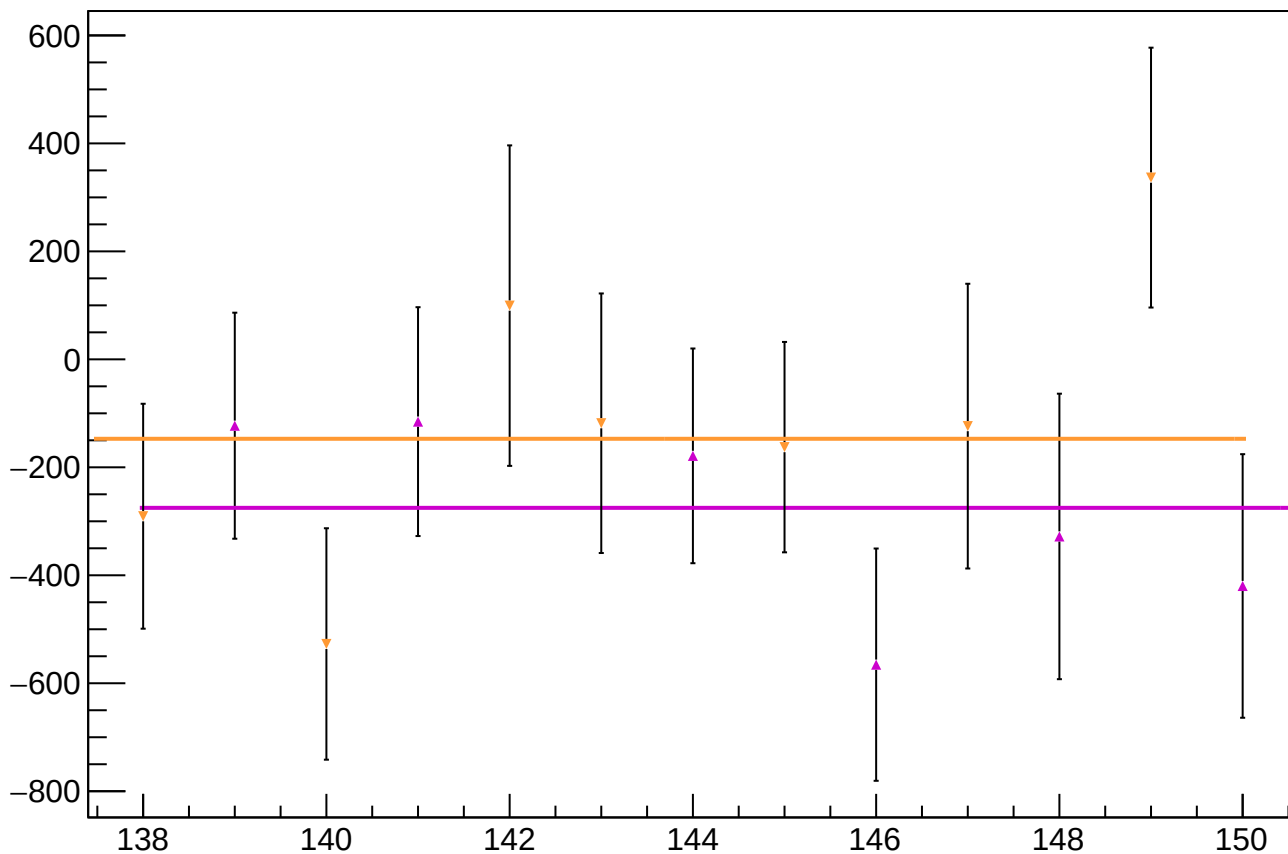
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 656.822+/-0.213  $\chi^2/\text{NDF}$ :211912.4/5

Out: 647.267+/-0.207  $\chi^2/\text{NDF}$ :156088.6/6

All: 651.906+/-0.149  $\chi^2/\text{NDF}$ : 369033.6/12

reg\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -147.159 $\pm$ 87.224  $\chi^2$ /NDF:8.4/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -275.087 $\pm$ 90.149  $\chi^2$ /NDF:3.5/5

Left: -209.015 $\pm$ 62.685  $\chi^2$ /NDF: 13.0/12

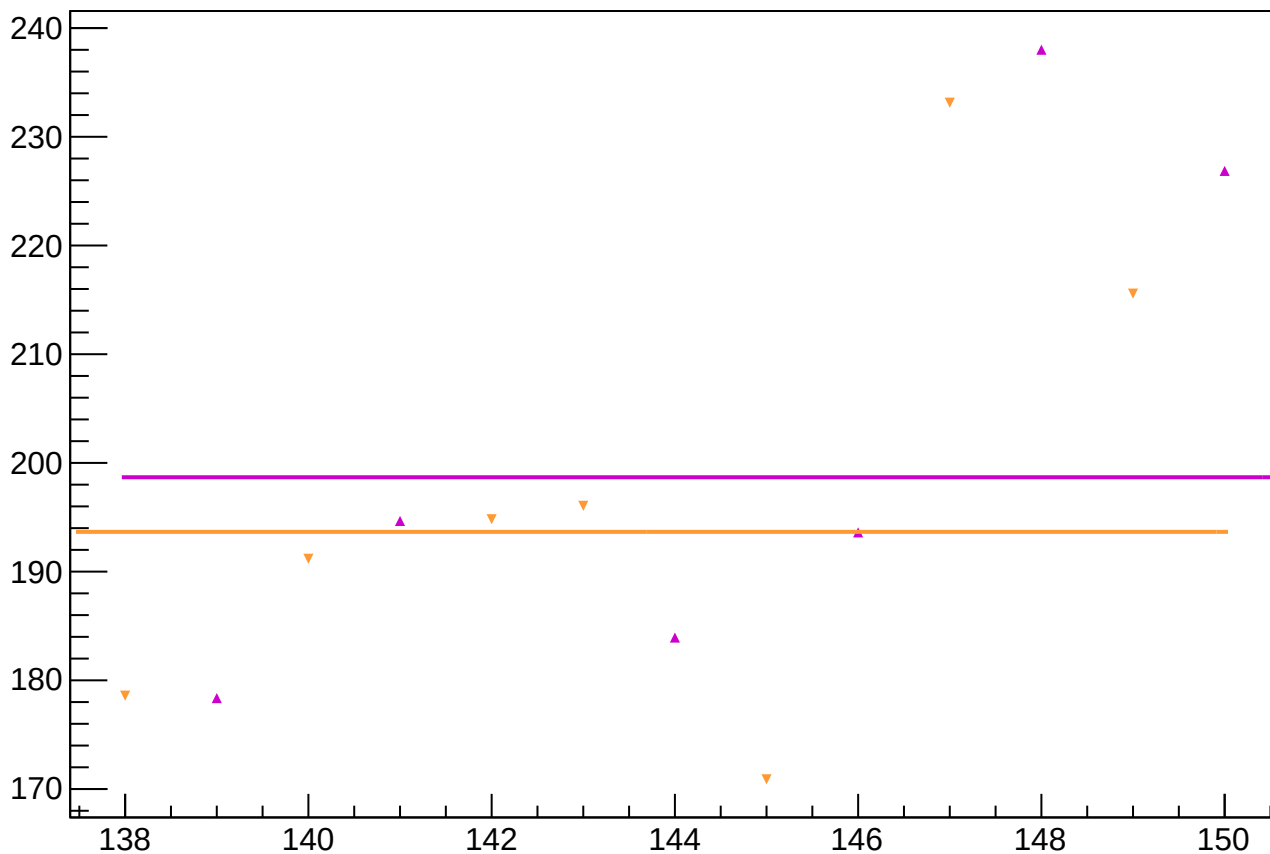
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -275.087 $\pm$ 90.149  $\chi^2$ /NDF:3.5/5

Out: -147.159 $\pm$ 87.224  $\chi^2$ /NDF:8.4/6

All: -209.015 $\pm$ 62.685  $\chi^2$ /NDF: 13.0/12

reg\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 193.658+/-0.062  $\chi^2/\text{NDF}$ :99647.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 198.681+/-0.064  $\chi^2/\text{NDF}$ :102562.6/5

Left: 196.087+/-0.044  $\chi^2/\text{NDF}$ : 205418.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

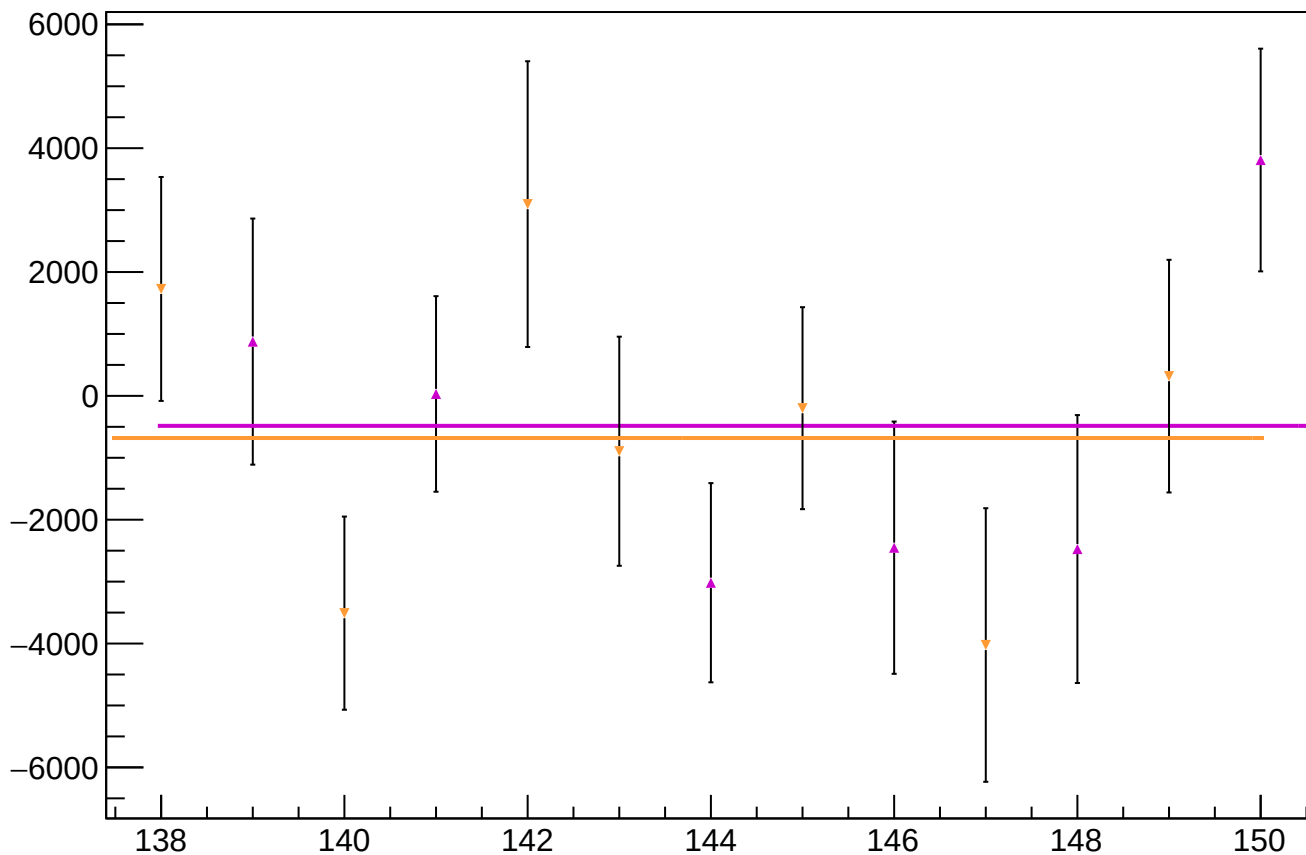
In: 198.681+/-0.064  $\chi^2/\text{NDF}$ :102562.6/5

Out: 193.658+/-0.062  $\chi^2/\text{NDF}$ :99647.9/6

All: 196.087+/-0.044  $\chi^2/\text{NDF}$ : 205418.0/12



asym\_sam\_26\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -680.695+/-696.563  $\chi^2/\text{NDF}$ :10.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -484.168+/-744.413  $\chi^2/\text{NDF}$ :10.5/5

Left: -588.950+/-508.620  $\chi^2/\text{NDF}$ : 21.0/12

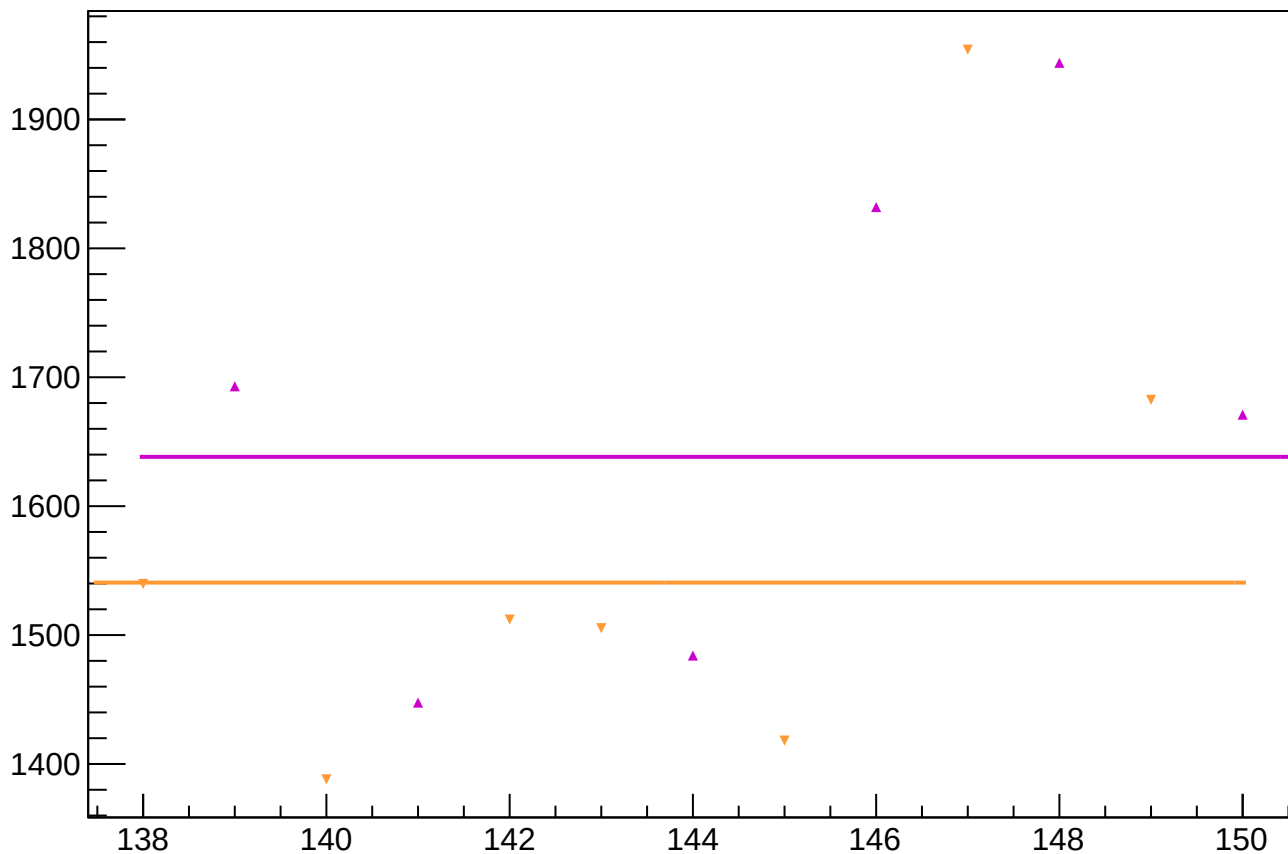
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -484.168+/-744.413  $\chi^2/\text{NDF}$ :10.5/5

Out: -680.695+/-696.563  $\chi^2/\text{NDF}$ :10.4/6

All: -588.950+/-508.620  $\chi^2/\text{NDF}$ : 21.0/12

asym\_sam\_26\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1540.721+/-0.493  $\chi^2/\text{NDF}$ :112915.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1638.246+/-0.526  $\chi^2/\text{NDF}$ :107707.1/5

Left: 1586.248+/-0.360  $\chi^2/\text{NDF}$ : 238924.3/12

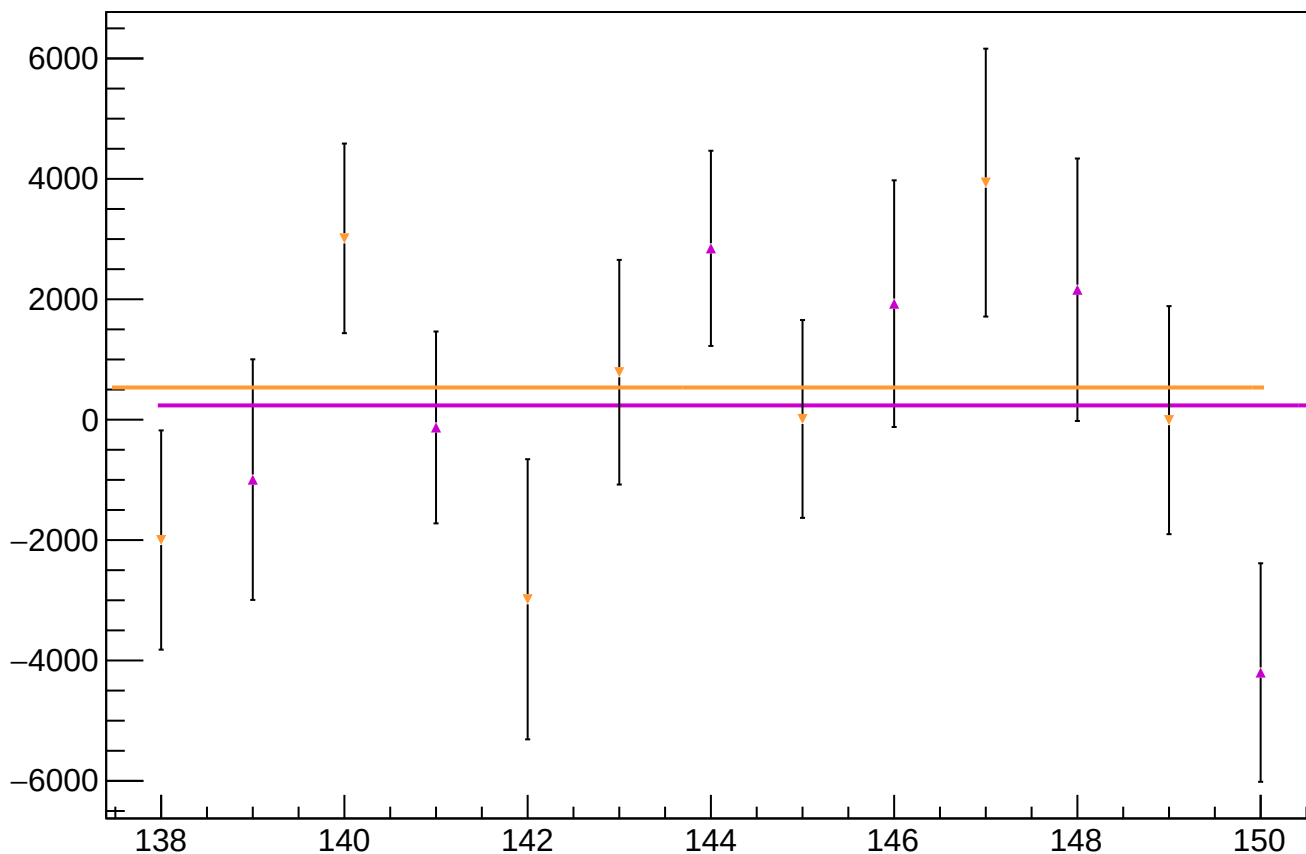
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1638.246+/-0.526  $\chi^2/\text{NDF}$ :107707.1/5

Out: 1540.721+/-0.493  $\chi^2/\text{NDF}$ :112915.1/6

All: 1586.248+/-0.360  $\chi^2/\text{NDF}$ : 238924.3/12

# asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 534.772+/-702.228  $\chi^2/\text{NDF}$ :9.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 236.927+/-750.178  $\chi^2/\text{NDF}$ :10.5/5

Left: 395.672+/-512.664  $\chi^2/\text{NDF}$ : 19.8/12

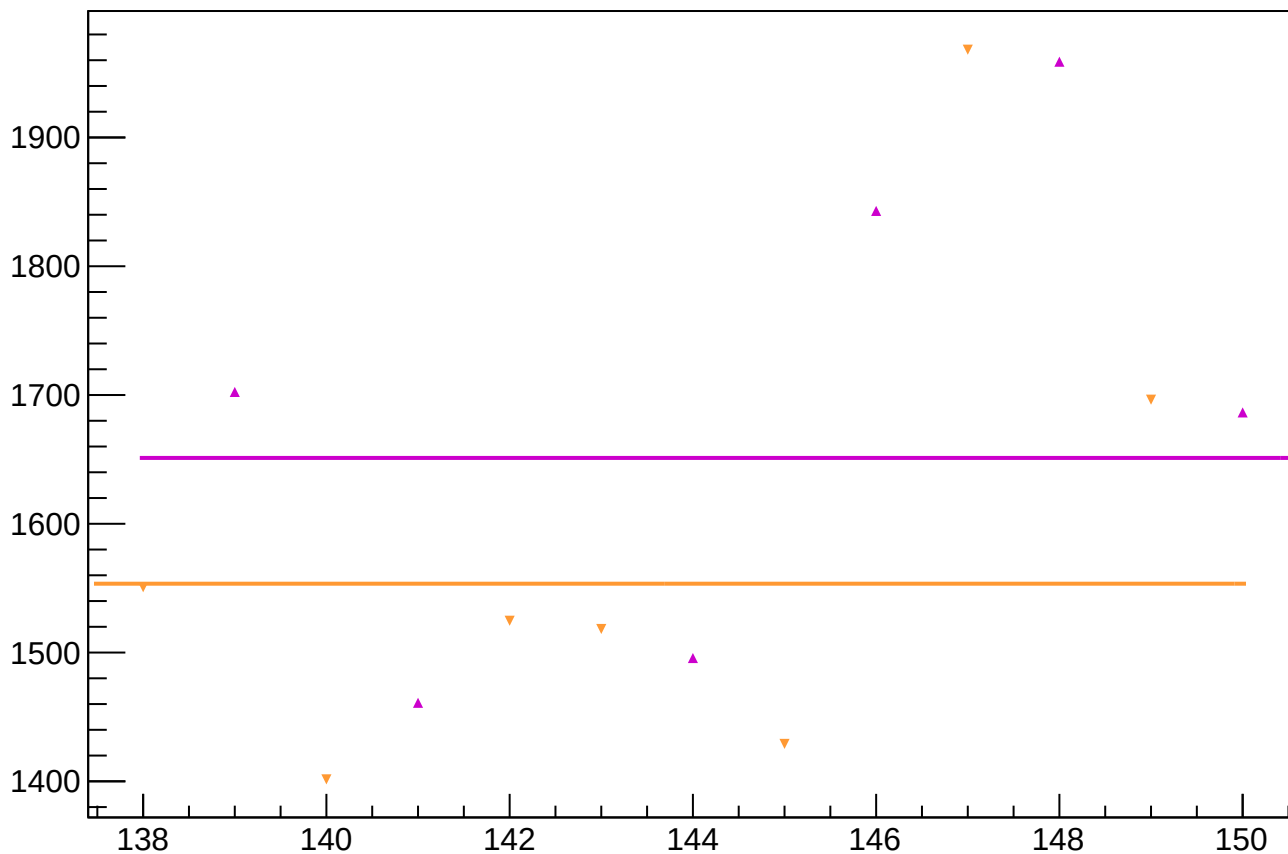
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 236.927+/-750.178  $\chi^2/\text{NDF}$ :10.5/5

Out: 534.772+/-702.228  $\chi^2/\text{NDF}$ :9.2/6

All: 395.672+/-512.664  $\chi^2/\text{NDF}$ : 19.8/12

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1553.469+/-0.497  $\chi^2/\text{NDF}$ :111964.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1651.143+/-0.530  $\chi^2/\text{NDF}$ :106308.0/5

Left: 1599.085+/-0.363  $\chi^2/\text{NDF}$ : 236343.5/12

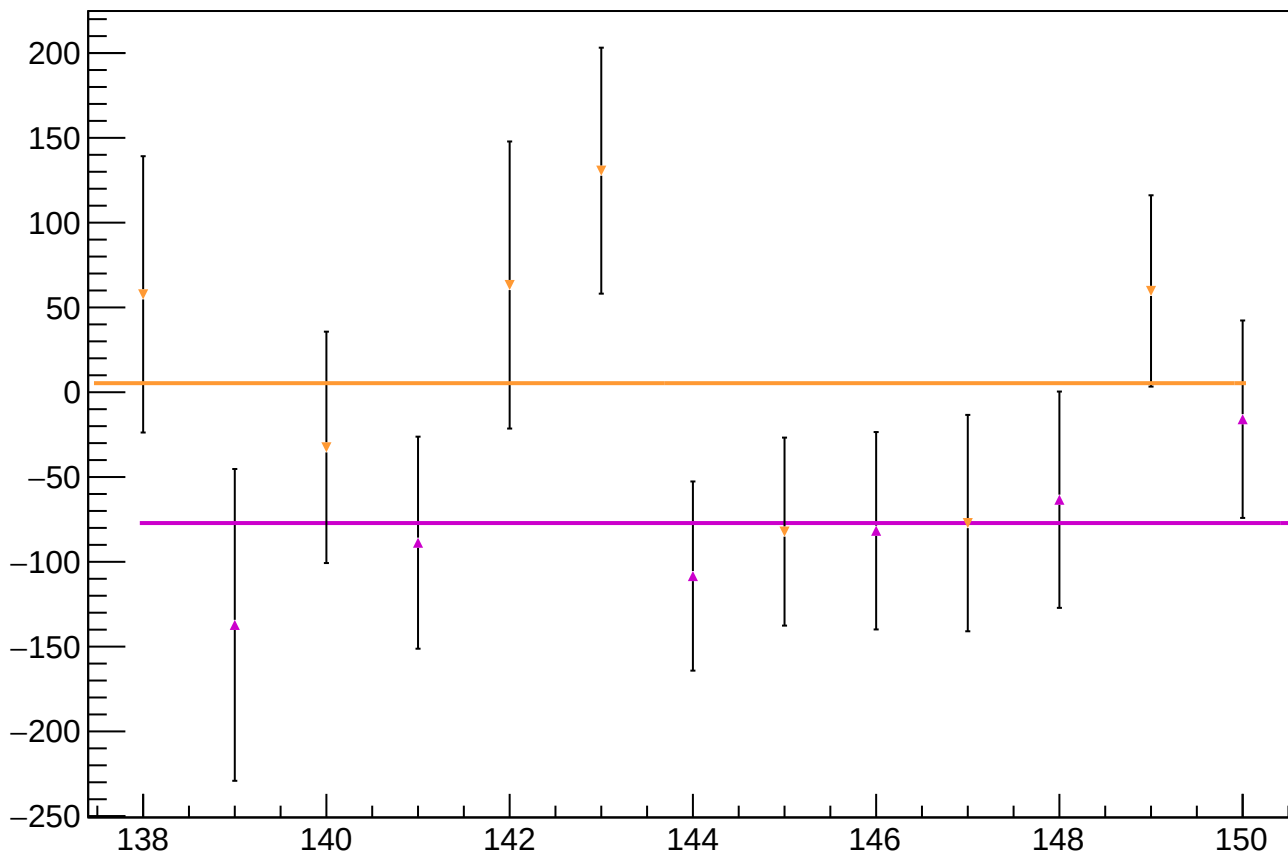
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1651.143+/-0.530  $\chi^2/\text{NDF}$ :106308.0/5

Out: 1553.469+/-0.497  $\chi^2/\text{NDF}$ :111964.8/6

All: 1599.085+/-0.363  $\chi^2/\text{NDF}$ : 236343.5/12

reg\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5.343 $\pm$ 25.152  $\chi^2$ /NDF:9.3/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -77.139 $\pm$ 25.550  $\chi^2$ /NDF:1.9/5

Left: -35.250 $\pm$ 17.924  $\chi^2$ /NDF: 16.5/12

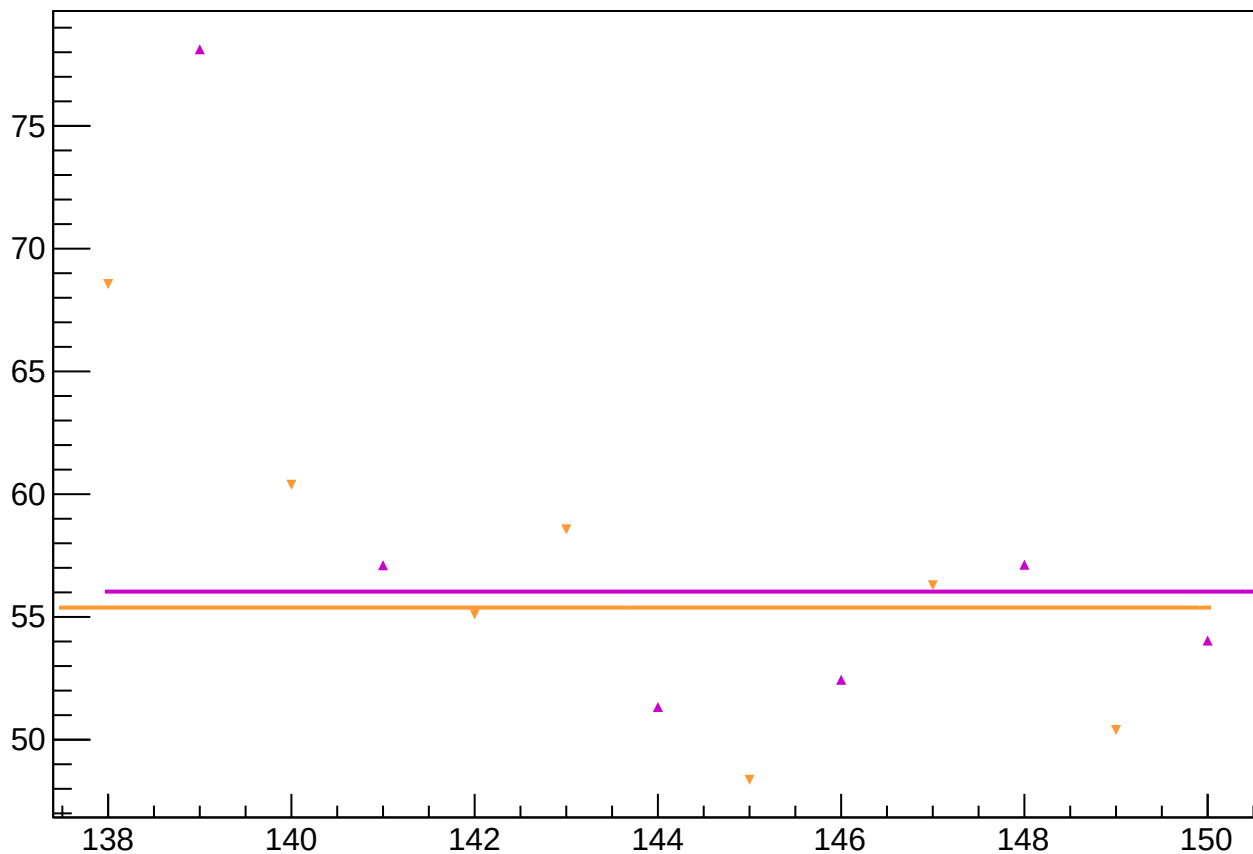
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -77.139 $\pm$ 25.550  $\chi^2$ /NDF:1.9/5

Out: 5.343 $\pm$ 25.152  $\chi^2$ /NDF:9.3/6

All: -35.250 $\pm$ 17.924  $\chi^2$ /NDF: 16.5/12

reg\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 55.380+/-0.018  $\chi^2/\text{NDF}$ :115012.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 56.032+/-0.018  $\chi^2/\text{NDF}$ :140800.0/5

Left: 55.701+/-0.013  $\chi^2/\text{NDF}$ : 256473.3/12

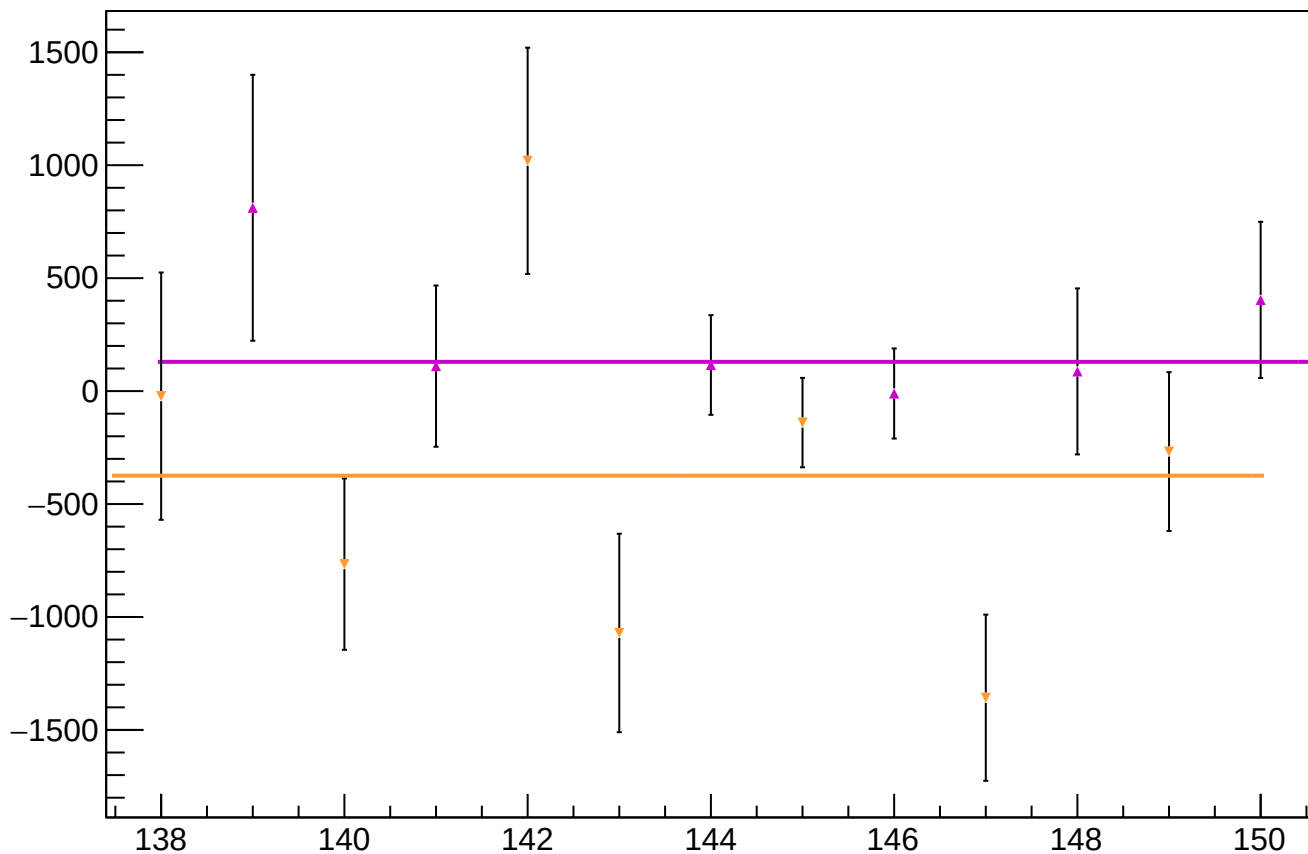
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 56.032+/-0.018  $\chi^2/\text{NDF}$ :140800.0/5

Out: 55.380+/-0.018  $\chi^2/\text{NDF}$ :115012.1/6

All: 55.701+/-0.013  $\chi^2/\text{NDF}$ : 256473.3/12

asym\_sam\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -374.428+/-128.601  $\chi^2/\text{NDF}$ :20.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 129.432+/-117.713  $\chi^2/\text{NDF}$ :2.5/5

Left: -100.269+/-86.830  $\chi^2/\text{NDF}$ : 31.2/12

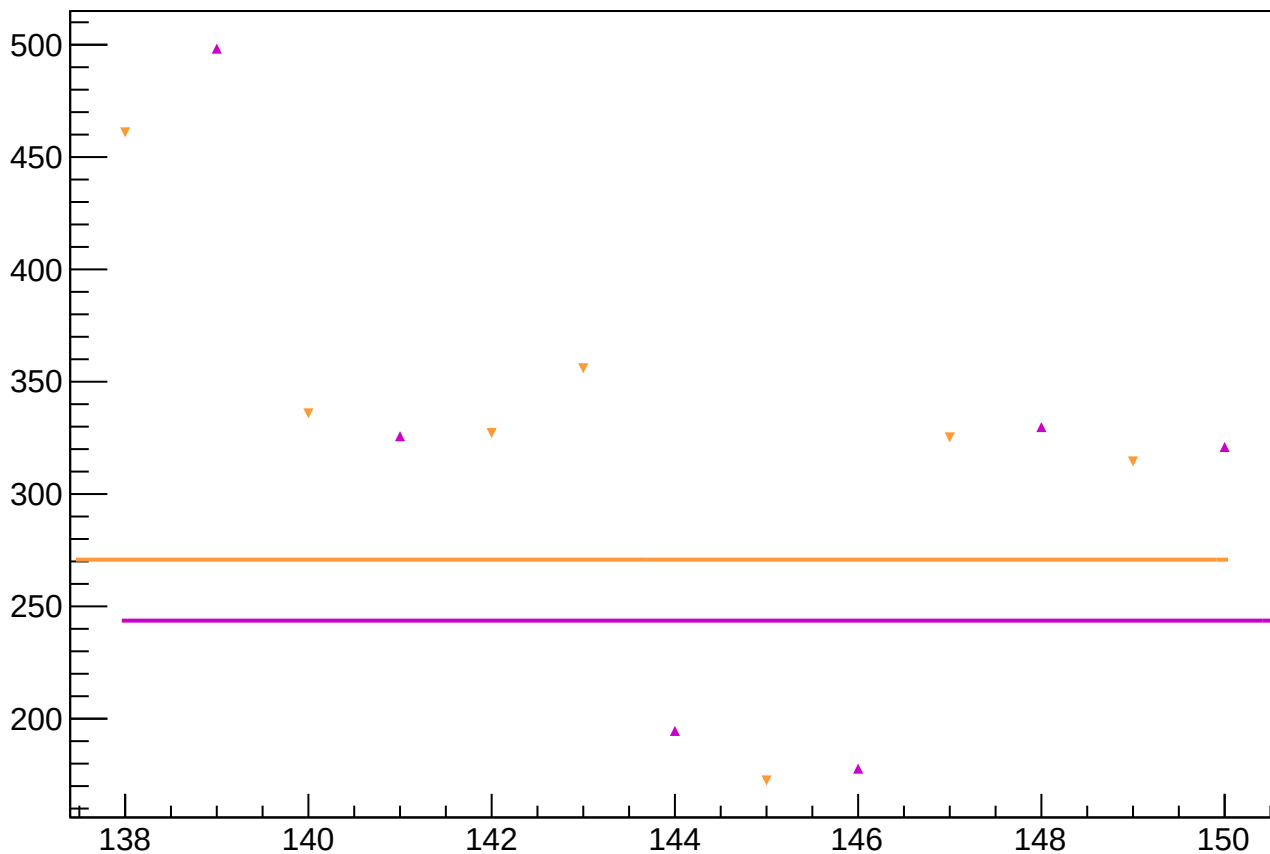
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 129.432+/-117.713  $\chi^2/\text{NDF}$ :2.5/5

Out: -374.428+/-128.601  $\chi^2/\text{NDF}$ :20.4/6

All: -100.269+/-86.830  $\chi^2/\text{NDF}$ : 31.2/12

asym\_sam\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 270.789+/-0.091  $\chi^2/\text{NDF}$ :968941.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 243.656+/-0.083  $\chi^2/\text{NDF}$ :1006991.8/5

Left: 256.025+/-0.061  $\chi^2/\text{NDF}$ : 2024378.7/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

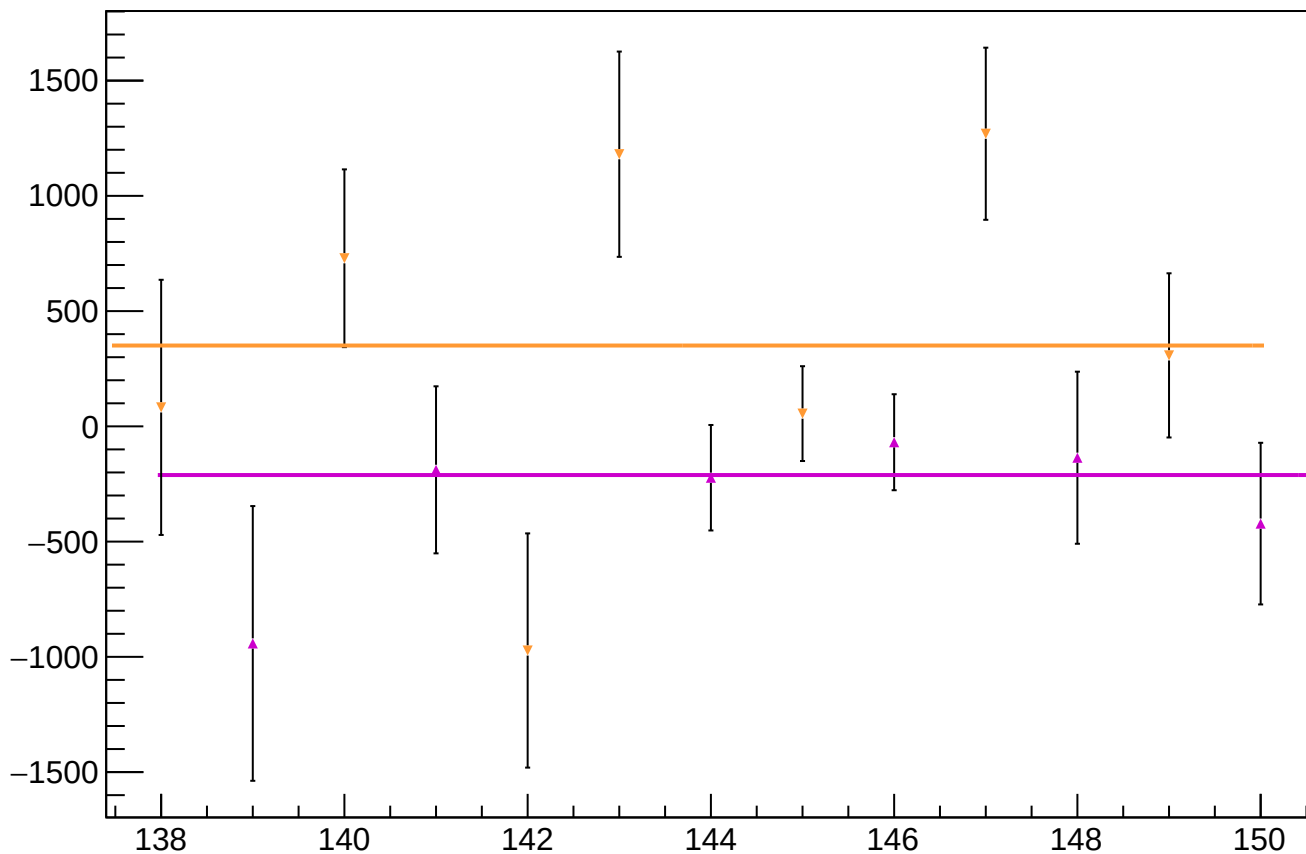
In: 243.656+/-0.083  $\chi^2/\text{NDF}$ :1006991.8/5

Out: 270.789+/-0.091  $\chi^2/\text{NDF}$ :968941.5/6

All: 256.025+/-0.061  $\chi^2/\text{NDF}$ : 2024378.7/12



asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 350.676+/-131.761  $\chi^2/\text{NDF}$ :19.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -211.221+/-121.358  $\chi^2/\text{NDF}$ :2.4/5

Left: 46.673+/-89.264  $\chi^2/\text{NDF}$ : 31.8/12

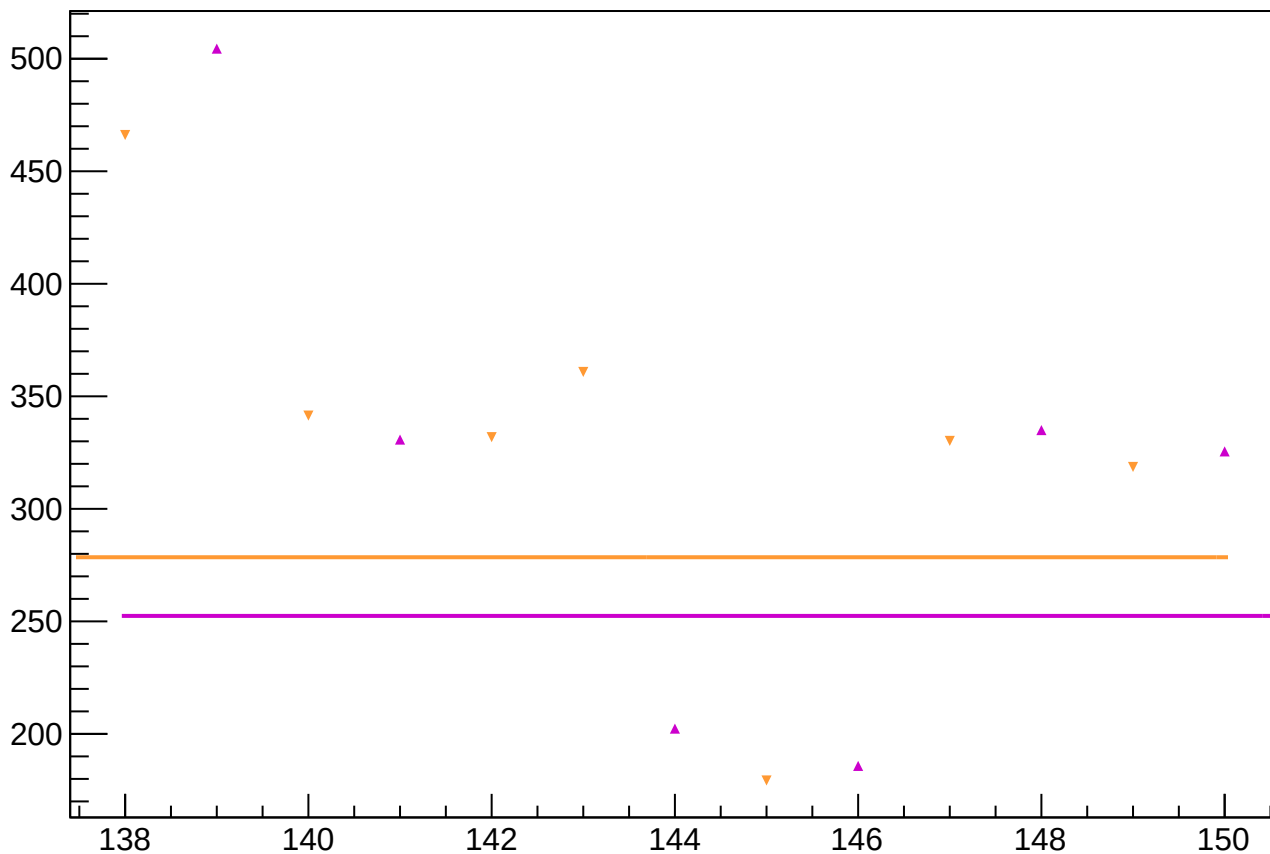
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -211.221+/-121.358  $\chi^2/\text{NDF}$ :2.4/5

Out: 350.676+/-131.761  $\chi^2/\text{NDF}$ :19.6/6

All: 46.673+/-89.264  $\chi^2/\text{NDF}$ : 31.8/12

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 278.495+/-0.093  $\chi^2/\text{NDF}$ : 902385.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 252.431+/-0.086  $\chi^2/\text{NDF}$ : 936744.8/5

Left: 264.393+/-0.063  $\chi^2/\text{NDF}$ : 1881473.7/12

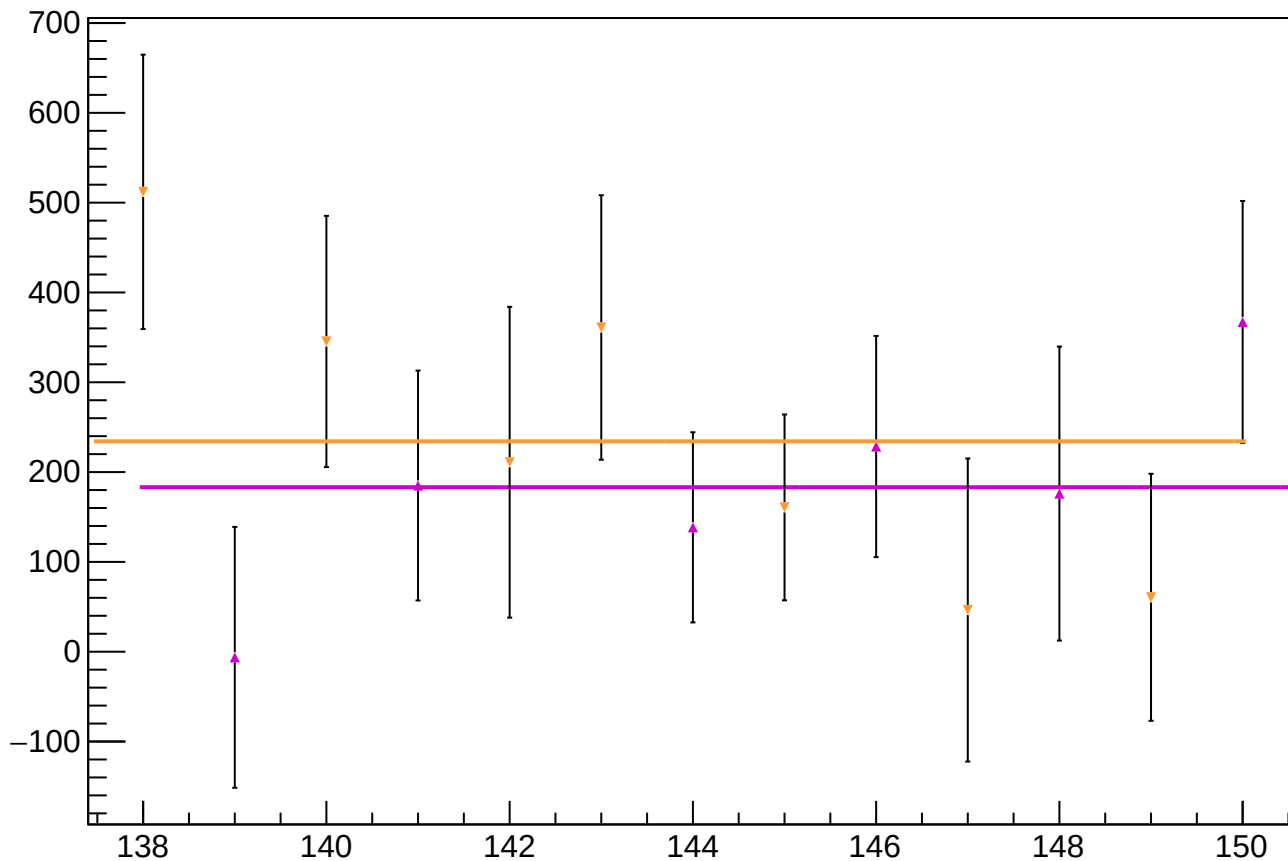
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 252.431+/-0.086  $\chi^2/\text{NDF}$ : 936744.8/5

Out: 278.495+/-0.093  $\chi^2/\text{NDF}$ : 902385.9/6

All: 264.393+/-0.063  $\chi^2/\text{NDF}$ : 1881473.7/12

reg\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 234.252+/-53.080  $\chi^2/\text{NDF}$ : 8.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 183.164+/-52.998  $\chi^2/\text{NDF}$ : 3.9/5

Left: 208.669+/-37.504  $\chi^2/\text{NDF}$ : 12.4/12

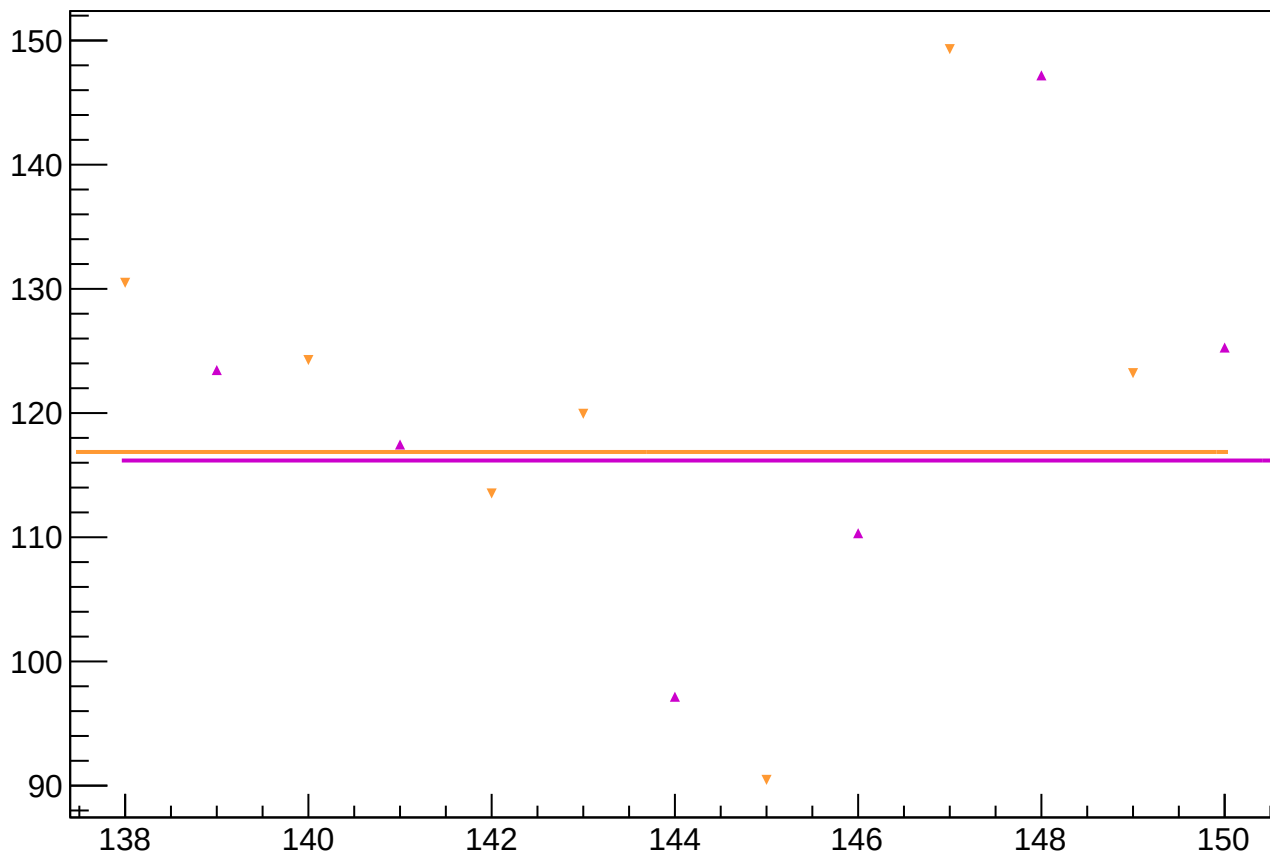
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 183.164+/-52.998  $\chi^2/\text{NDF}$ : 3.9/5

Out: 234.252+/-53.080  $\chi^2/\text{NDF}$ : 8.0/6

All: 208.669+/-37.504  $\chi^2/\text{NDF}$ : 12.4/12

reg\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 116.867+/-0.038  $\chi^2/\text{NDF}$ :231546.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 116.179+/-0.037  $\chi^2/\text{NDF}$ :155220.5/5

Left: 116.522+/-0.027  $\chi^2/\text{NDF}$ : 386935.4/12

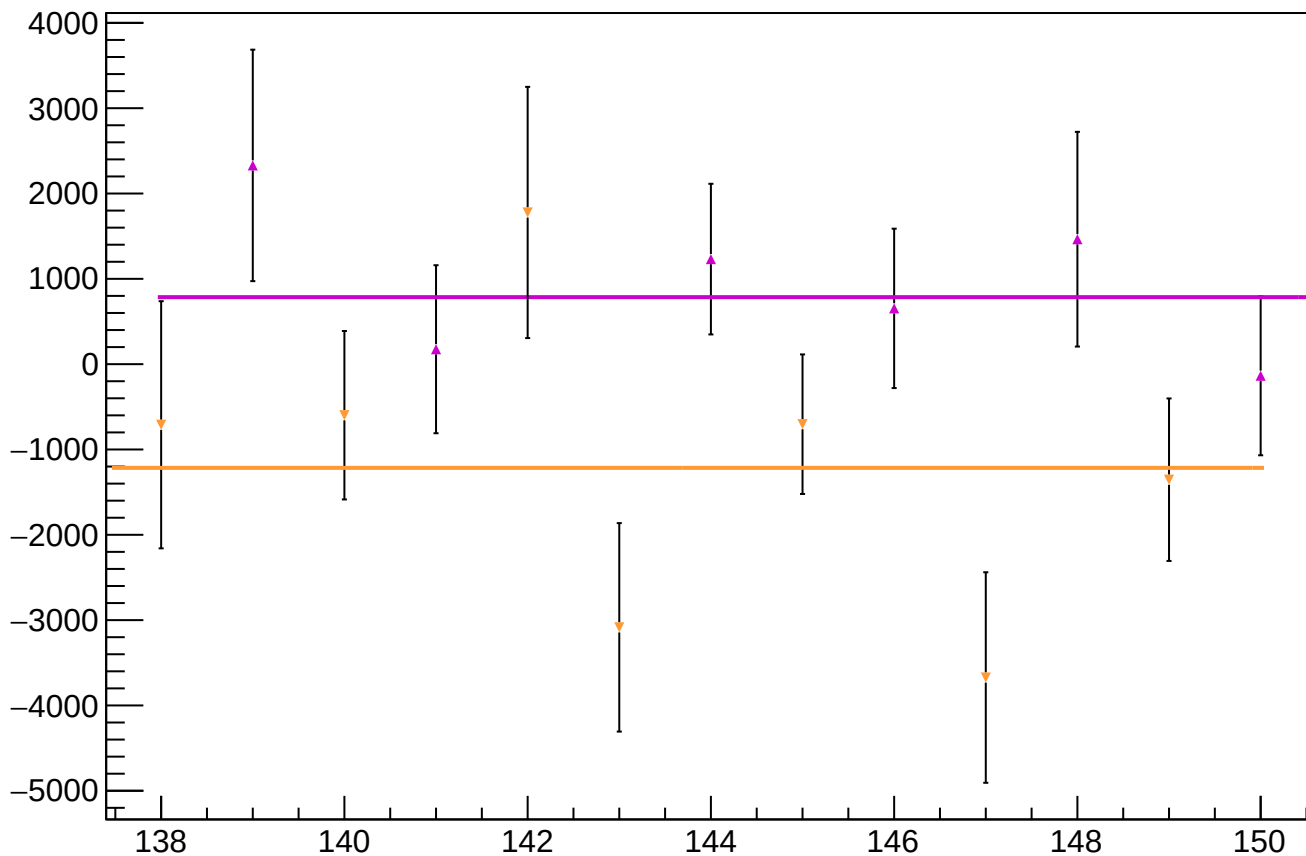
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 116.179+/-0.037  $\chi^2/\text{NDF}$ :155220.5/5

Out: 116.867+/-0.038  $\chi^2/\text{NDF}$ :231546.5/6

All: 116.522+/-0.027  $\chi^2/\text{NDF}$ : 386935.4/12

asym\_sam\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1215.298+/-412.068  $\chi^2/\text{NDF}$ :11.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 785.472+/-415.728  $\chi^2/\text{NDF}$ :3.2/5

Left: -223.758+/-292.662  $\chi^2/\text{NDF}$ : 26.3/12

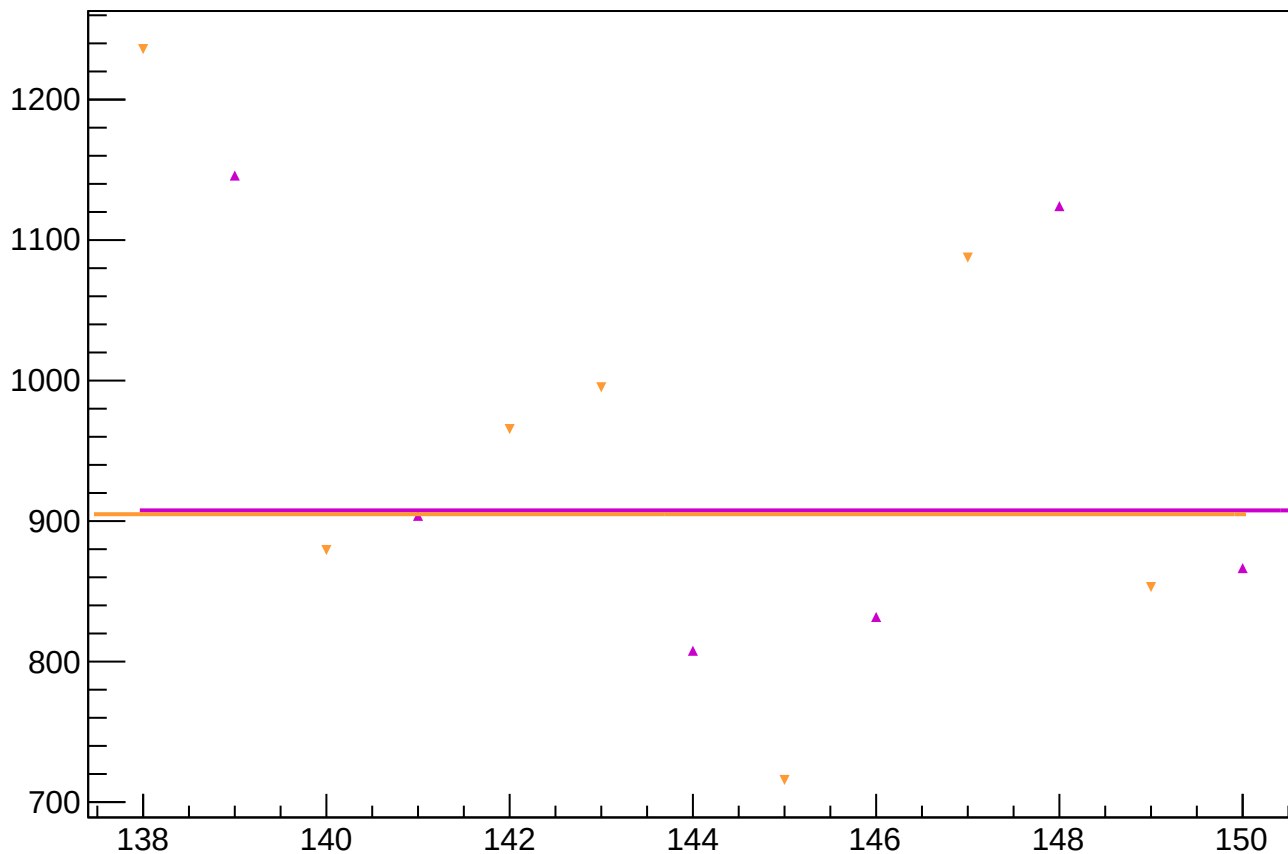
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 785.472+/-415.728  $\chi^2/\text{NDF}$ :3.2/5

Out: -1215.298+/-412.068  $\chi^2/\text{NDF}$ :11.4/6

All: -223.758+/-292.662  $\chi^2/\text{NDF}$ : 26.3/12

asym\_sam\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 904.901+/-0.291  $\chi^2/\text{NDF}$ :276857.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 907.616+/-0.294  $\chi^2/\text{NDF}$ :163681.2/5

Left: 906.247+/-0.207  $\chi^2/\text{NDF}$ : 440582.0/12

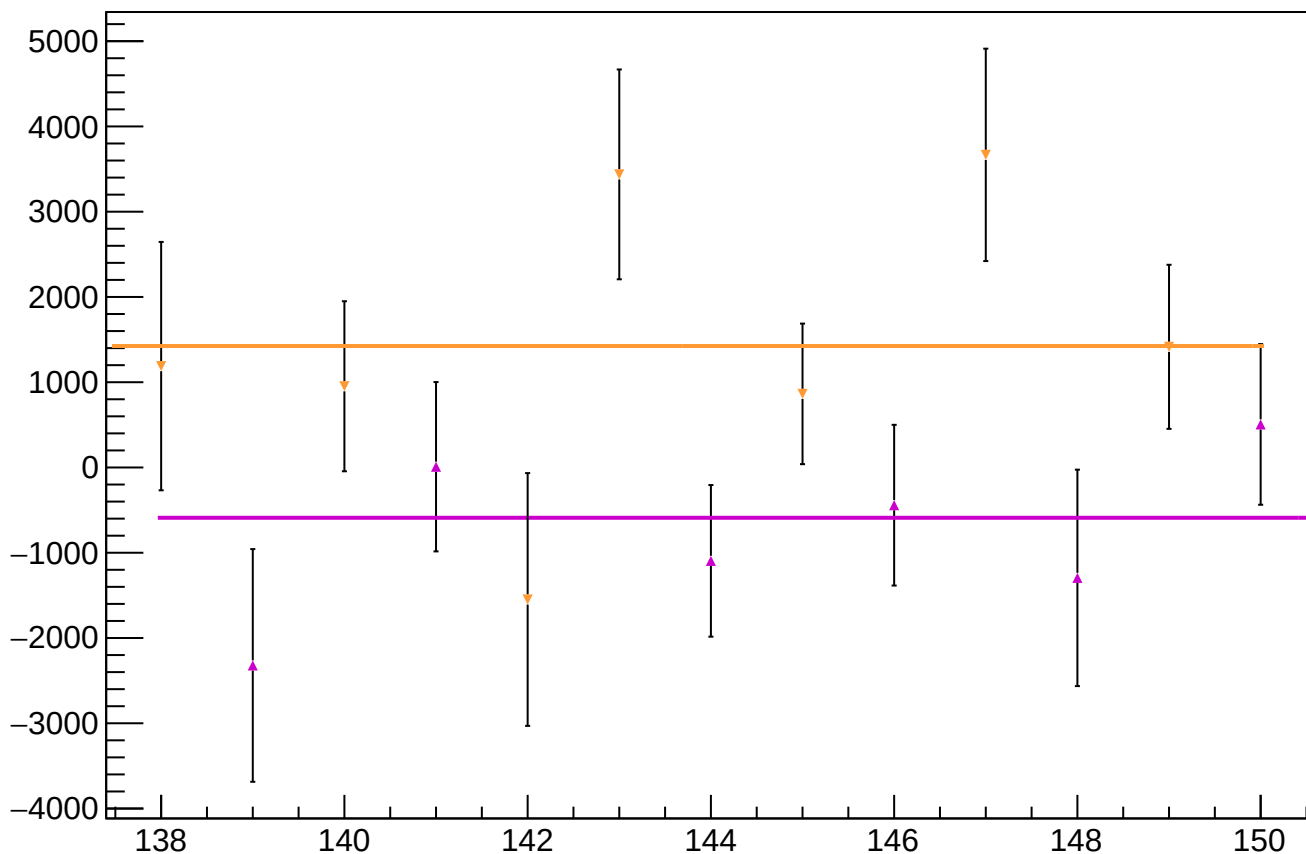
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 907.616+/-0.294  $\chi^2/\text{NDF}$ :163681.2/5

Out: 904.901+/-0.291  $\chi^2/\text{NDF}$ :276857.8/6

All: 906.247+/-0.207  $\chi^2/\text{NDF}$ : 440582.0/12

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1424.490+/-415.633  $\chi^2/\text{NDF}$ :10.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -589.857+/-419.272  $\chi^2/\text{NDF}$ :4.0/5

Left: 426.097+/-295.175  $\chi^2/\text{NDF}$ : 26.3/12

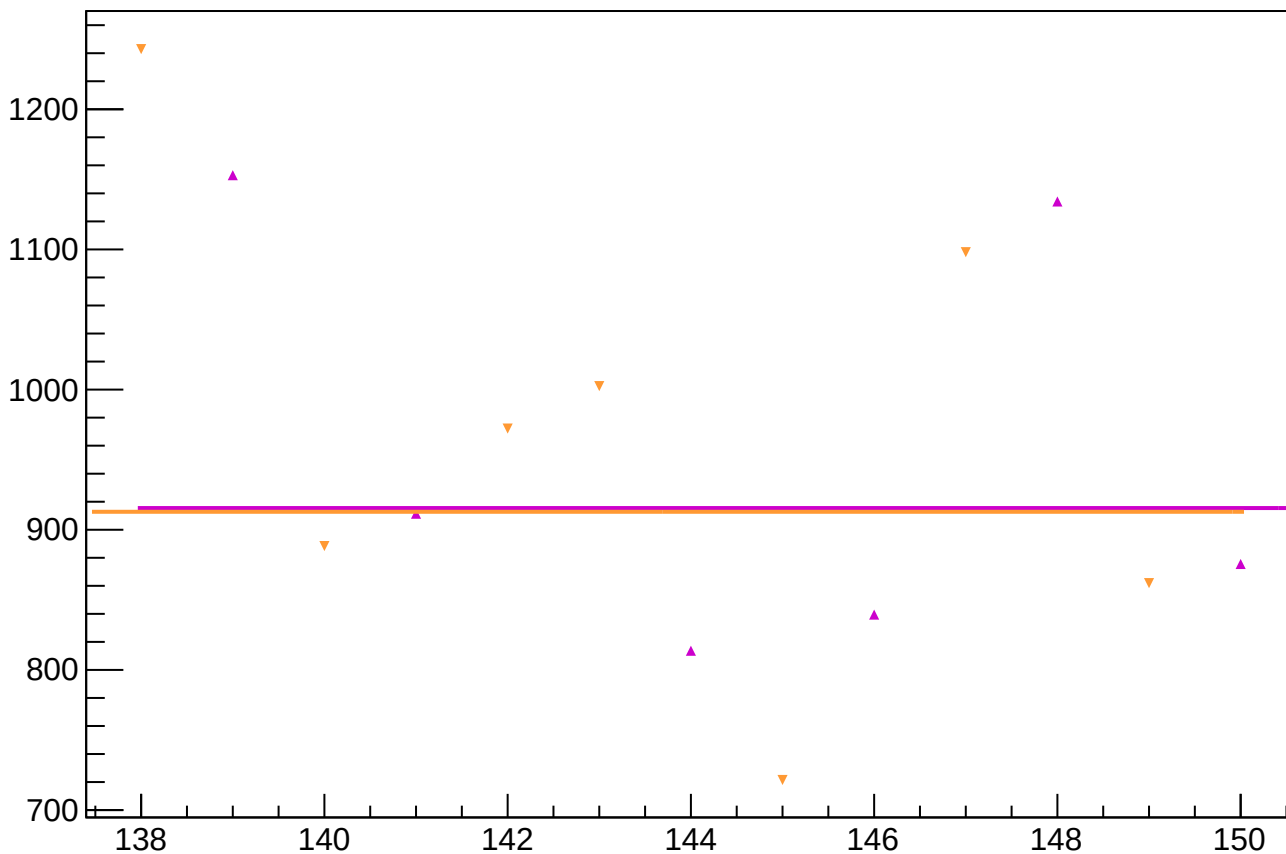
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -589.857+/-419.272  $\chi^2/\text{NDF}$ :4.0/5

Out: 1424.490+/-415.633  $\chi^2/\text{NDF}$ :10.7/6

All: 426.097+/-295.175  $\chi^2/\text{NDF}$ : 26.3/12

# asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 912.828+/-0.294  $\chi^2/\text{NDF}$ :275319.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 915.484+/-0.296  $\chi^2/\text{NDF}$ :162811.7/5

Left: 914.144+/-0.209  $\chi^2/\text{NDF}$ : 438171.3/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

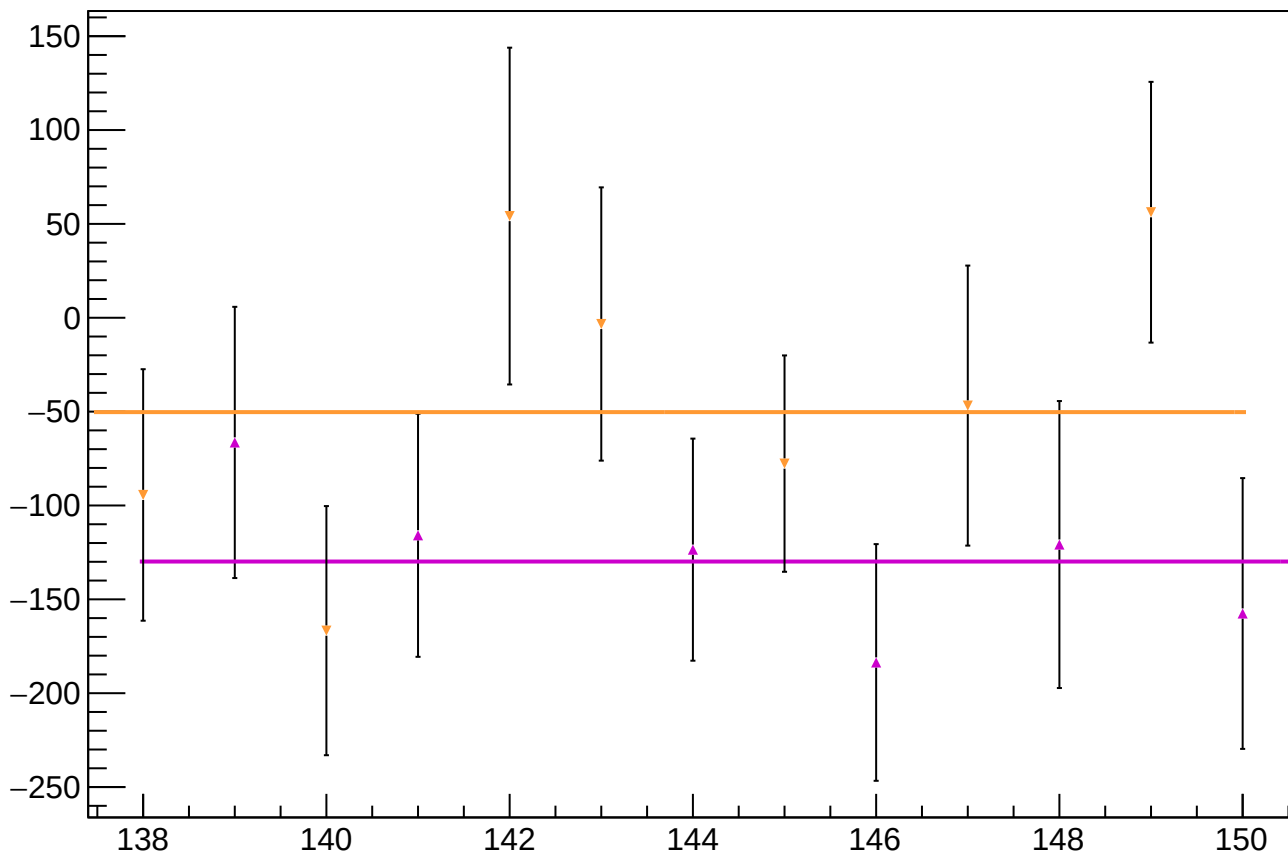
In: 915.484+/-0.296  $\chi^2/\text{NDF}$ :162811.7/5

Out: 912.828+/-0.294  $\chi^2/\text{NDF}$ :275319.1/6

All: 914.144+/-0.209  $\chi^2/\text{NDF}$ : 438171.3/12



reg\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -50.262+/-26.251  $\chi^2/\text{NDF}$ : 7.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -129.862+/-27.411  $\chi^2/\text{NDF}$ : 1.7/5

Left: -88.343+/-18.959  $\chi^2/\text{NDF}$ : 14.0/12

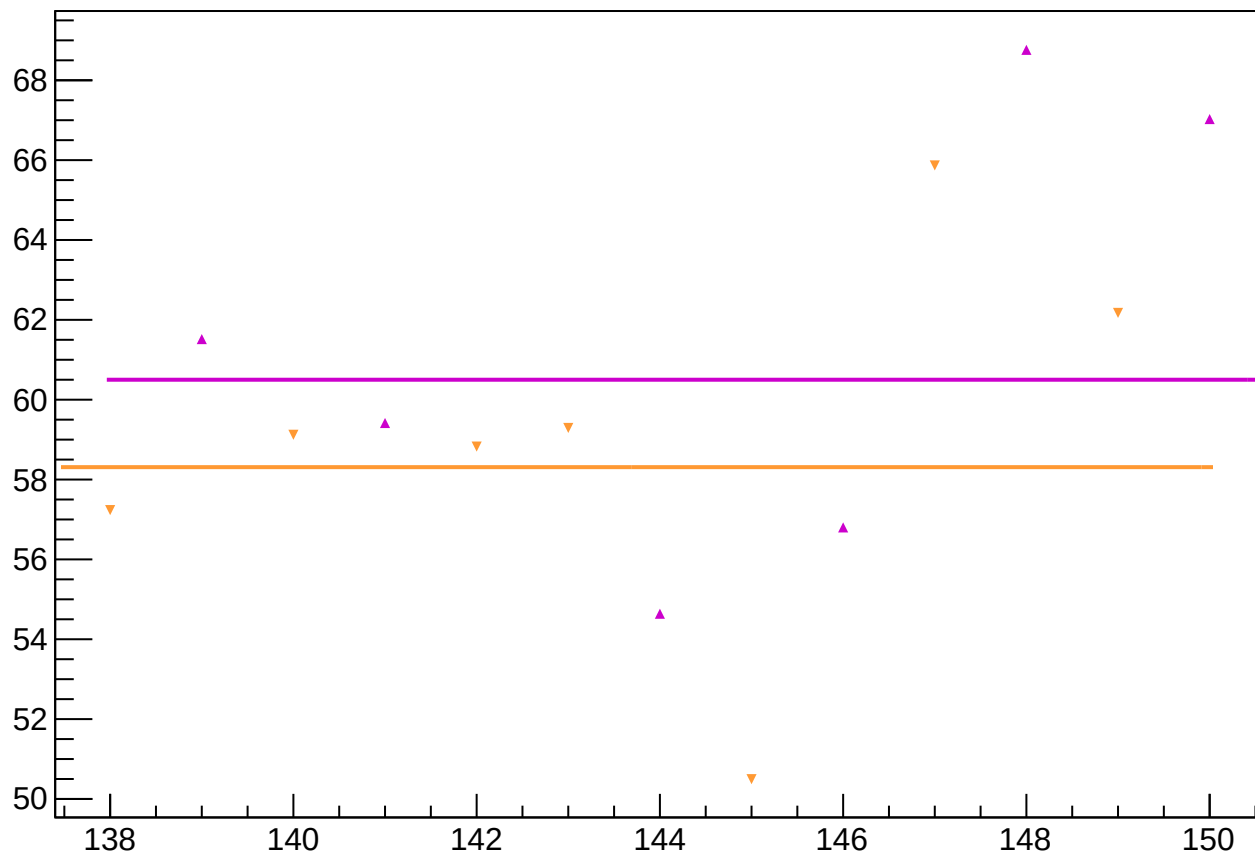
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -129.862+/-27.411  $\chi^2/\text{NDF}$ : 1.7/5

Out: -50.262+/-26.251  $\chi^2/\text{NDF}$ : 7.9/6

All: -88.343+/-18.959  $\chi^2/\text{NDF}$ : 14.0/12

reg\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 58.310+/-0.019  $\chi^2/\text{NDF}$ :64741.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 60.500+/-0.019  $\chi^2/\text{NDF}$ :67230.8/5

Left: 59.358+/-0.013  $\chi^2/\text{NDF}$ : 138629.7/12

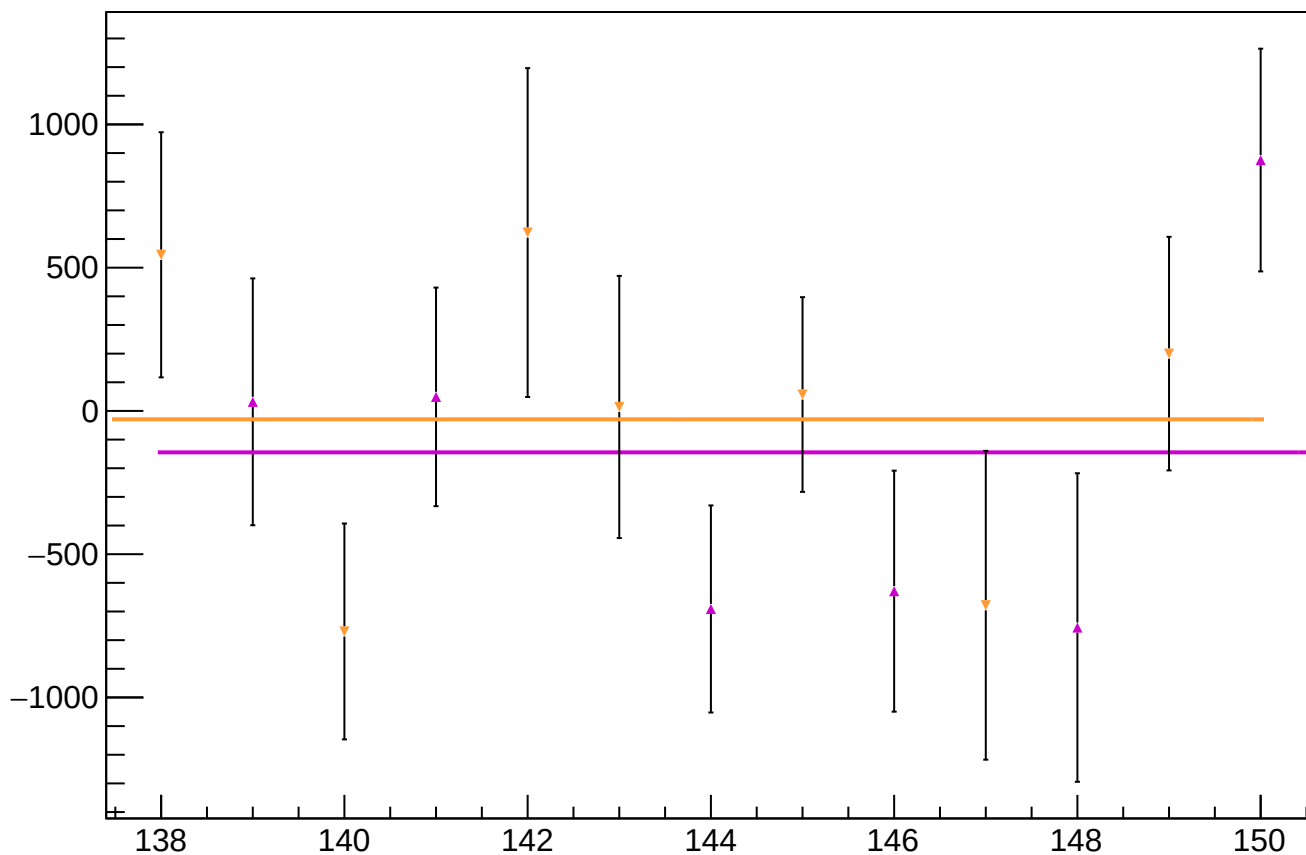
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 60.500+/-0.019  $\chi^2/\text{NDF}$ :67230.8/5

Out: 58.310+/-0.019  $\chi^2/\text{NDF}$ :64741.6/6

All: 59.358+/-0.013  $\chi^2/\text{NDF}$ : 138629.7/12

asym\_sam\_13\_57\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -29.265+/-161.285  $\chi^2/\text{NDF}$ :8.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -144.567+/-167.509  $\chi^2/\text{NDF}$ :12.2/5

Left: -84.734+/-116.184  $\chi^2/\text{NDF}$ : 21.3/12

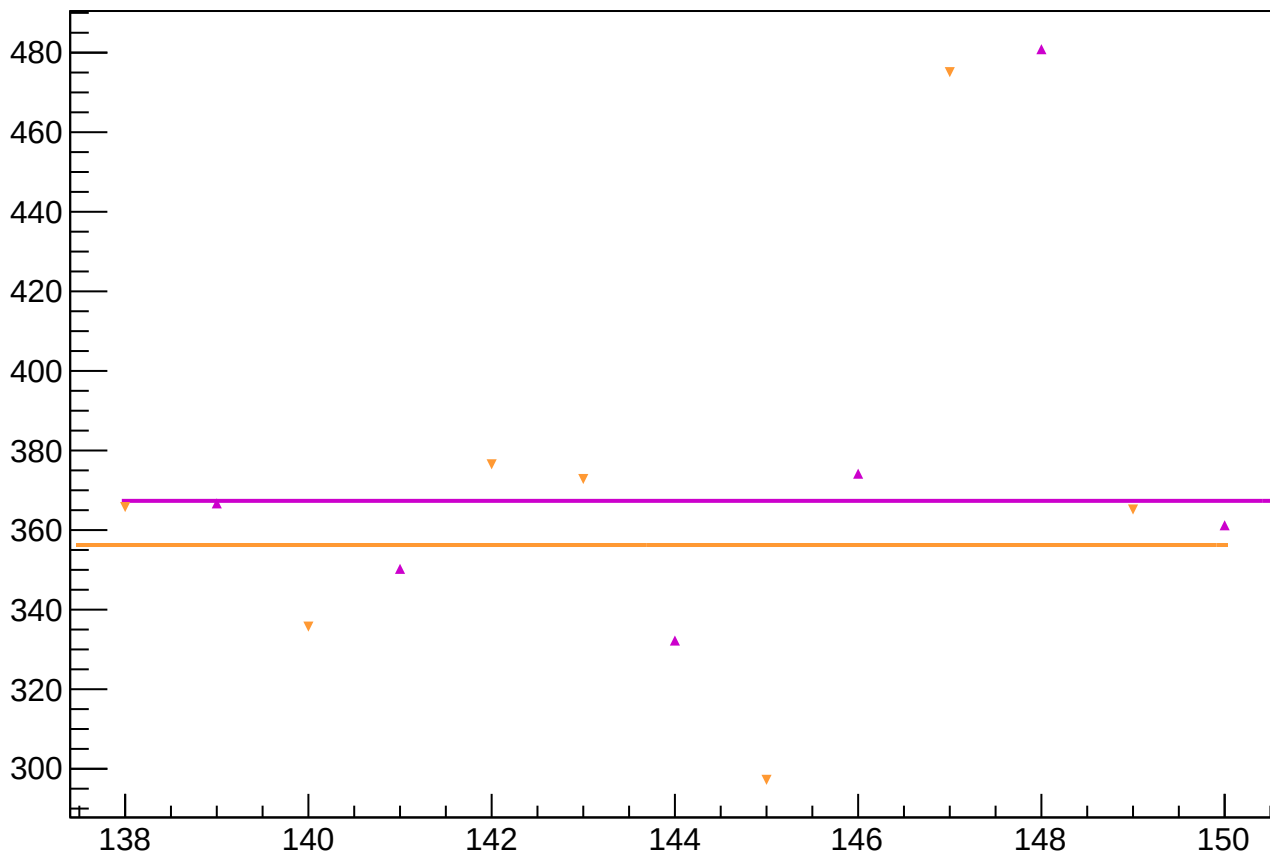
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -144.567+/-167.509  $\chi^2/\text{NDF}$ :12.2/5

Out: -29.265+/-161.285  $\chi^2/\text{NDF}$ :8.8/6

All: -84.734+/-116.184  $\chi^2/\text{NDF}$ : 21.3/12

asym\_sam\_13\_57\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 356.249+/-0.114  $\chi^2/\text{NDF}$ :170611.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 367.344+/-0.118  $\chi^2/\text{NDF}$ :112823.2/5

Left: 361.586+/-0.082  $\chi^2/\text{NDF}$ : 287987.9/12

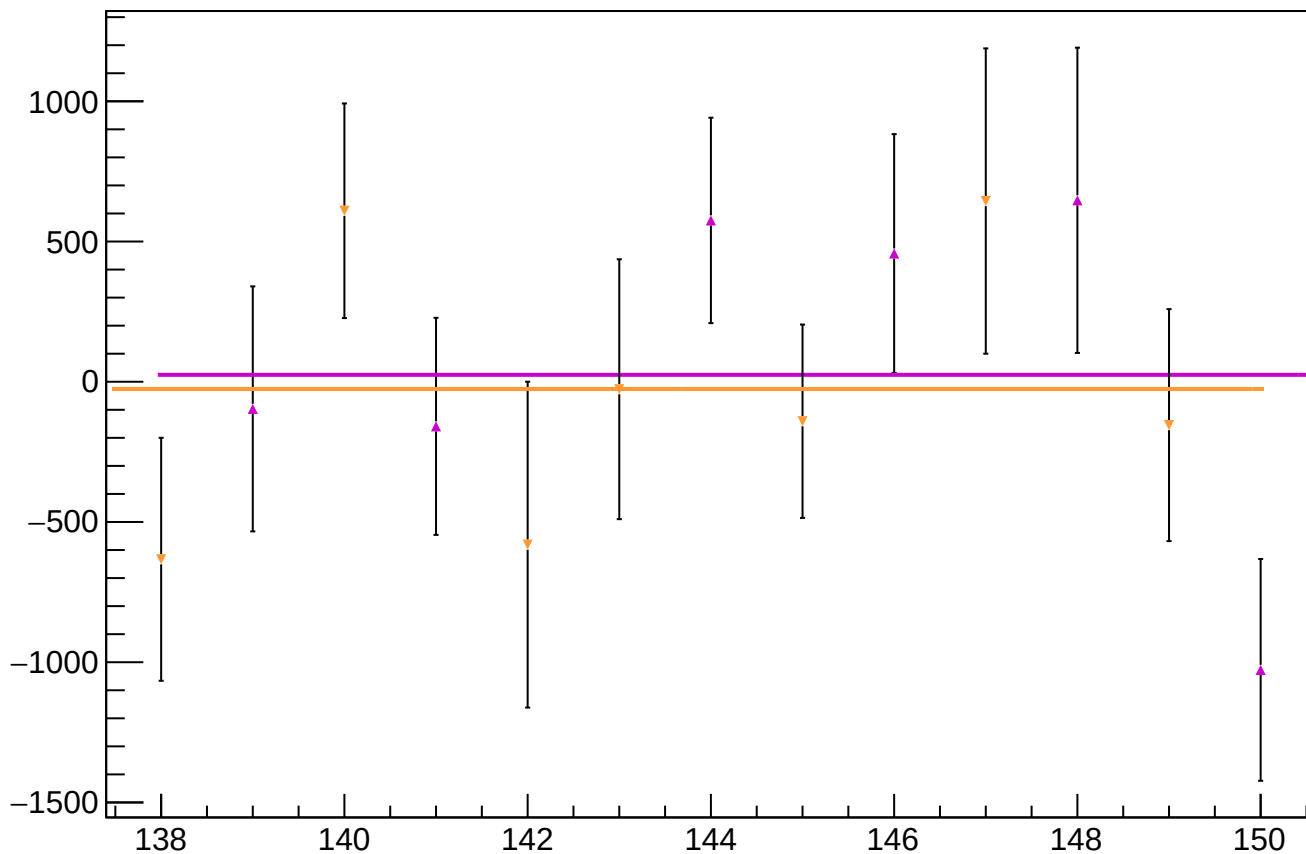
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 367.344+/-0.118  $\chi^2/\text{NDF}$ :112823.2/5

Out: 356.249+/-0.114  $\chi^2/\text{NDF}$ :170611.4/6

All: 361.586+/-0.082  $\chi^2/\text{NDF}$ : 287987.9/12

asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.840+/-163.474  $\chi^2/\text{NDF}$ : 7.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 24.676+/-169.842  $\chi^2/\text{NDF}$ : 12.0/5

Left: -1.547+/-117.780  $\chi^2/\text{NDF}$ : 19.4/12

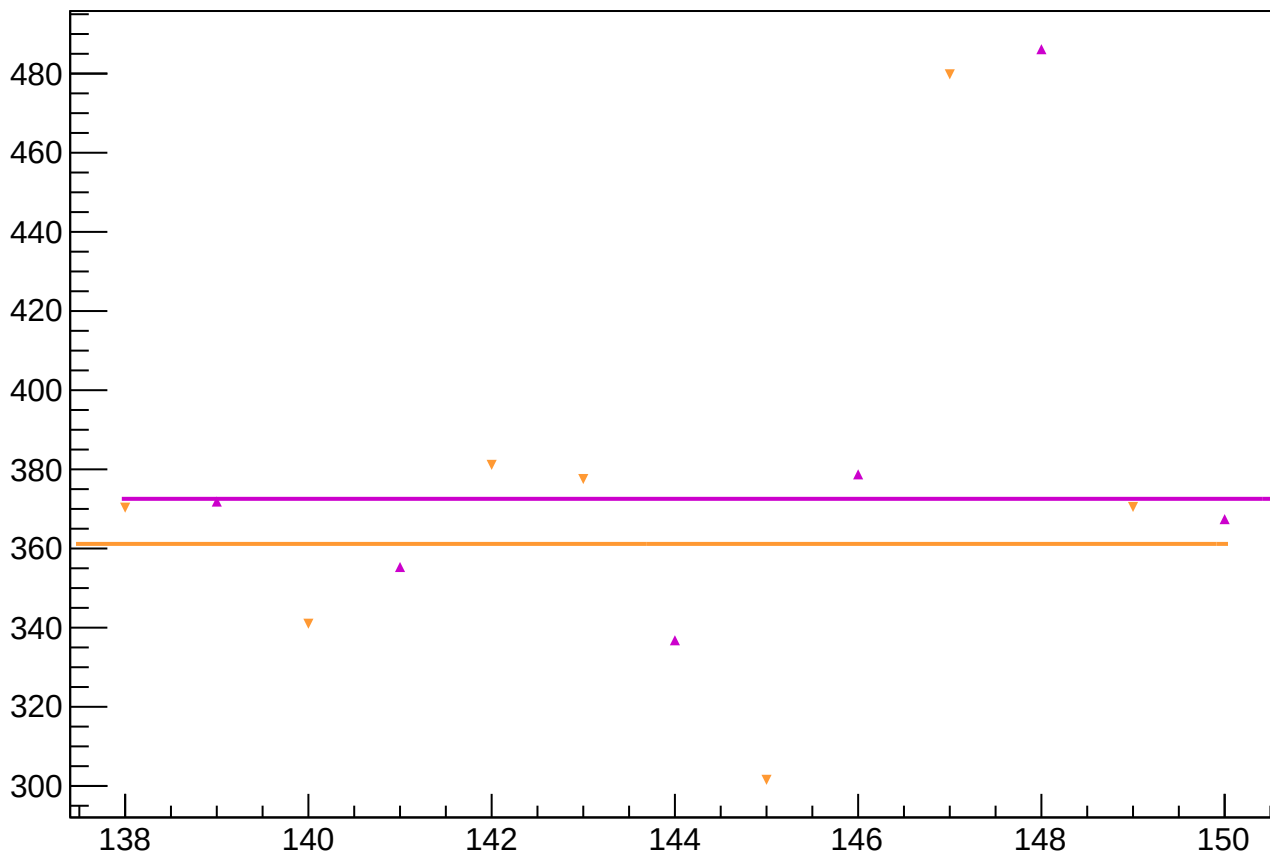
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 24.676+/-169.842  $\chi^2/\text{NDF}$ : 12.0/5

Out: -25.840+/-163.474  $\chi^2/\text{NDF}$ : 7.4/6

All: -1.547+/-117.780  $\chi^2/\text{NDF}$ : 19.4/12

# asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 361.162+/-0.116  $\chi^2/\text{NDF}$ :167206.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 372.551+/-0.120  $\chi^2/\text{NDF}$ :110934.1/5

Left: 366.639+/-0.083  $\chi^2/\text{NDF}$ : 282808.8/12

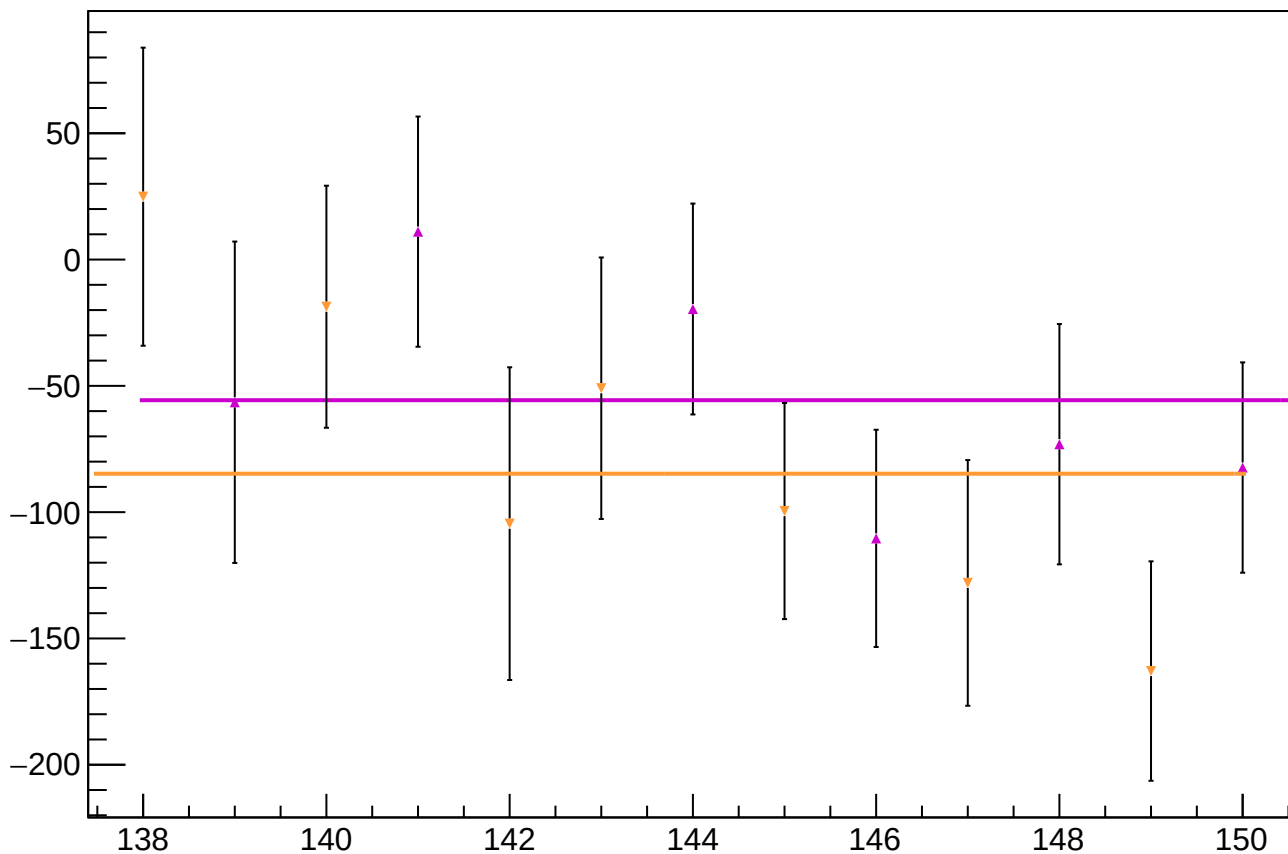
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 372.551+/-0.120  $\chi^2/\text{NDF}$ :110934.1/5

Out: 361.162+/-0.116  $\chi^2/\text{NDF}$ :167206.2/6

All: 366.639+/-0.083  $\chi^2/\text{NDF}$ : 282808.8/12

reg\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -84.776+/-18.711  $\chi^2/\text{NDF}$ :10.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -55.682+/-18.692  $\chi^2/\text{NDF}$ :5.1/5

Left: -70.215+/-13.224  $\chi^2/\text{NDF}$ : 16.3/12

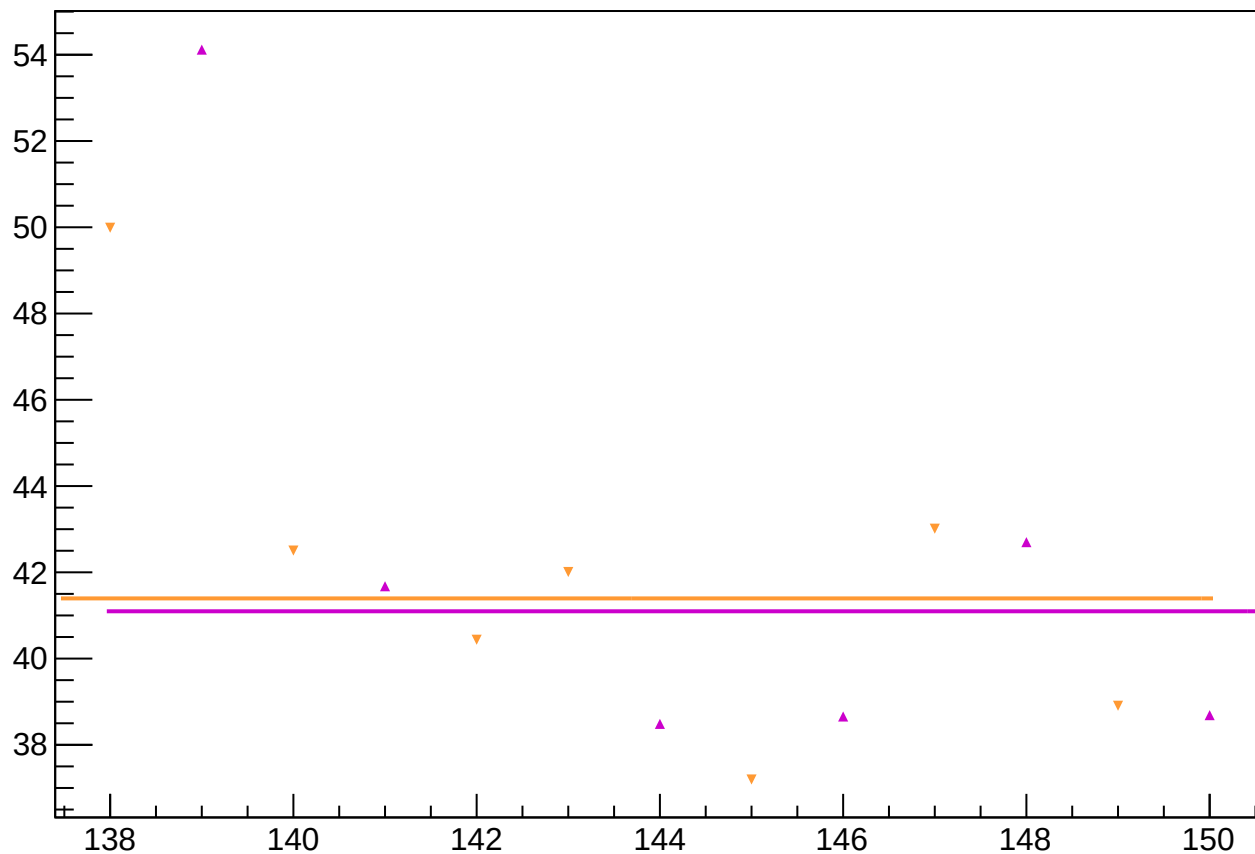
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -55.682+/-18.692  $\chi^2/\text{NDF}$ :5.1/5

Out: -84.776+/-18.711  $\chi^2/\text{NDF}$ :10.0/6

All: -70.215+/-13.224  $\chi^2/\text{NDF}$ : 16.3/12

reg\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 41.395+/-0.013  $\chi^2/\text{NDF}$ :72310.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 41.096+/-0.013  $\chi^2/\text{NDF}$ :107339.3/5

Left: 41.246+/-0.009  $\chi^2/\text{NDF}$ : 179905.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

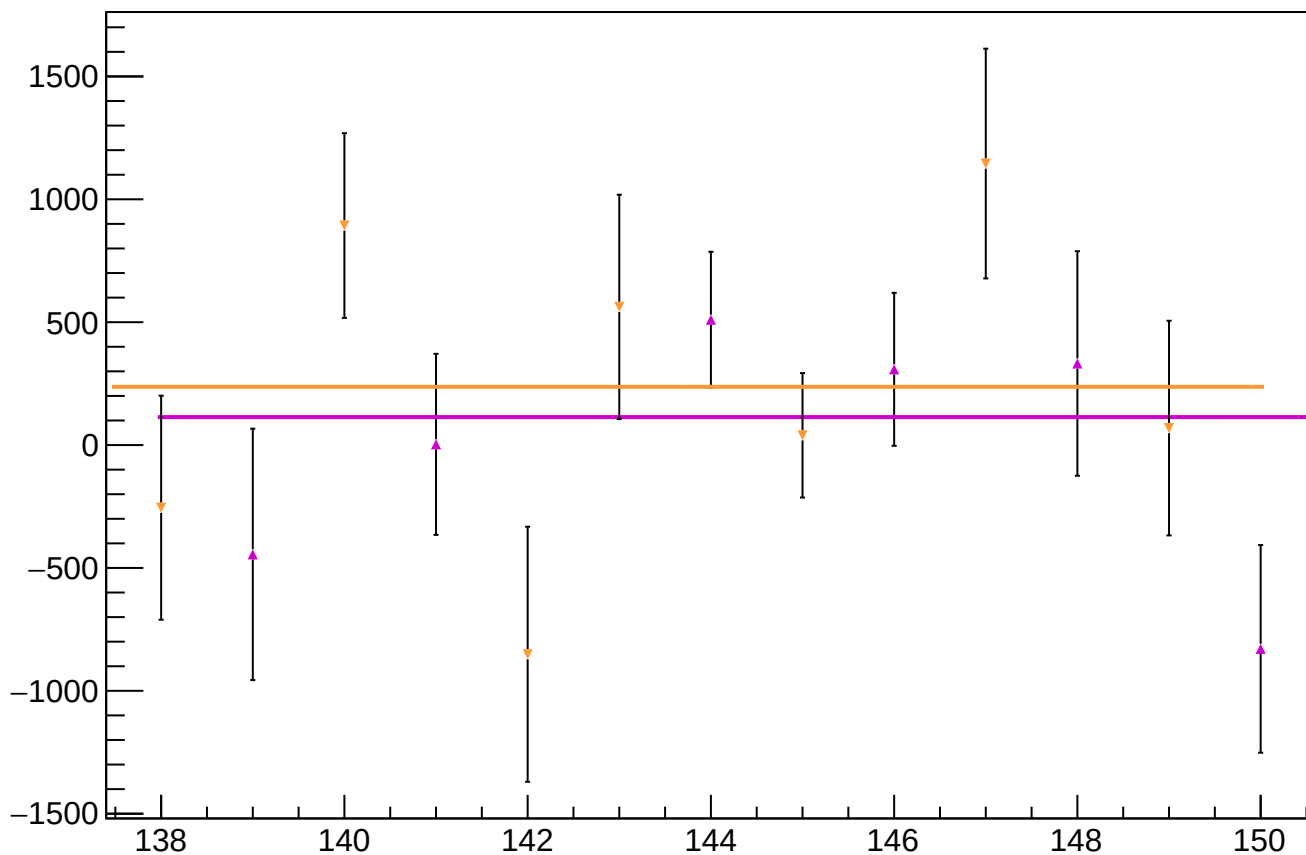
In: 41.096+/-0.013  $\chi^2/\text{NDF}$ :107339.3/5

Out: 41.395+/-0.013  $\chi^2/\text{NDF}$ :72310.8/6

All: 41.246+/-0.009  $\chi^2/\text{NDF}$ : 179905.0/12



asym\_sam\_15\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 236.987+/-147.734  $\chi^2/\text{NDF}$ :13.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 113.840+/-149.079  $\chi^2/\text{NDF}$ :8.9/5

Left: 175.972+/-104.936  $\chi^2/\text{NDF}$ : 22.9/12

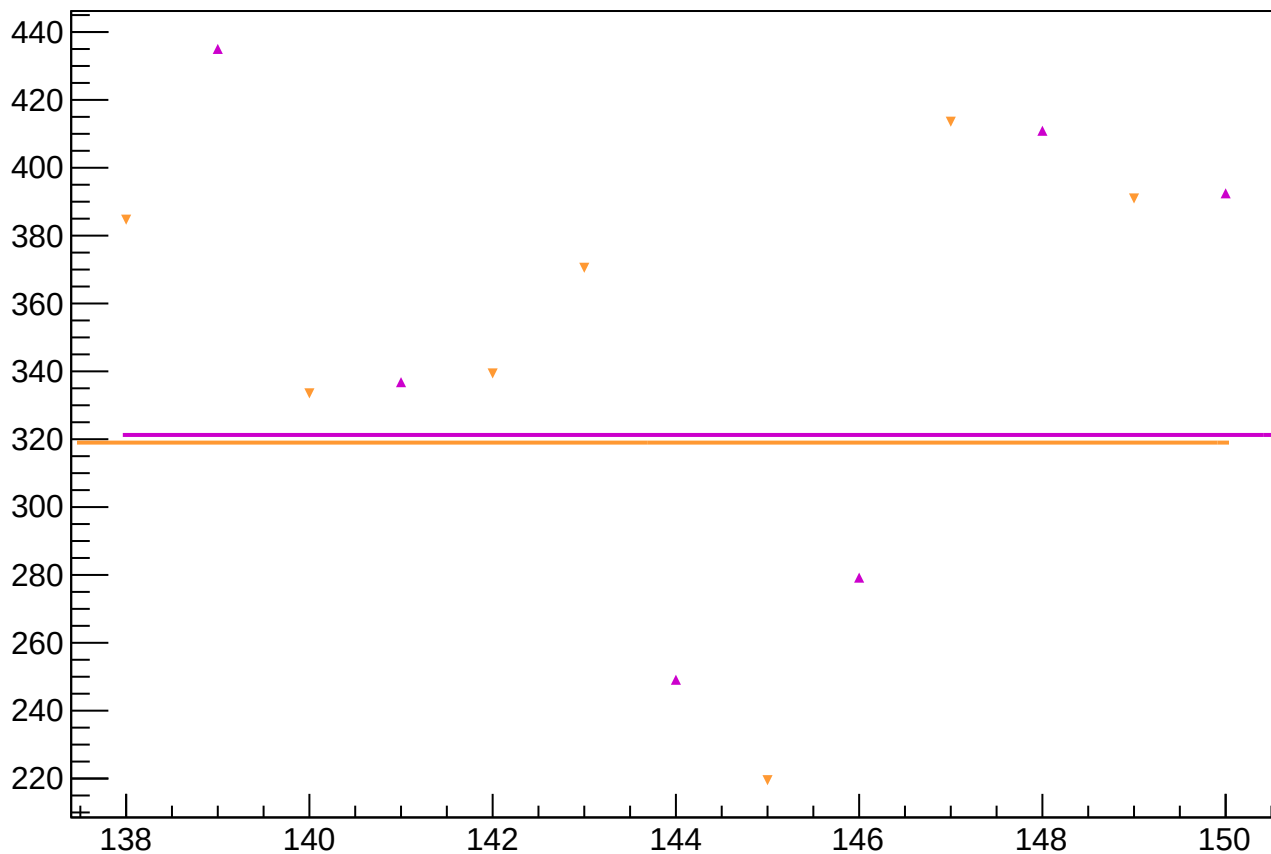
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 113.840+/-149.079  $\chi^2/\text{NDF}$ :8.9/5

Out: 236.987+/-147.734  $\chi^2/\text{NDF}$ :13.6/6

All: 175.972+/-104.936  $\chi^2/\text{NDF}$ : 22.9/12

asym\_sam\_15\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 319.002+/-0.104  $\chi^2/\text{NDF}$ :517989.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 321.258+/-0.105  $\chi^2/\text{NDF}$ :409073.8/5

Left: 320.119+/-0.074  $\chi^2/\text{NDF}$ : 927294.7/12

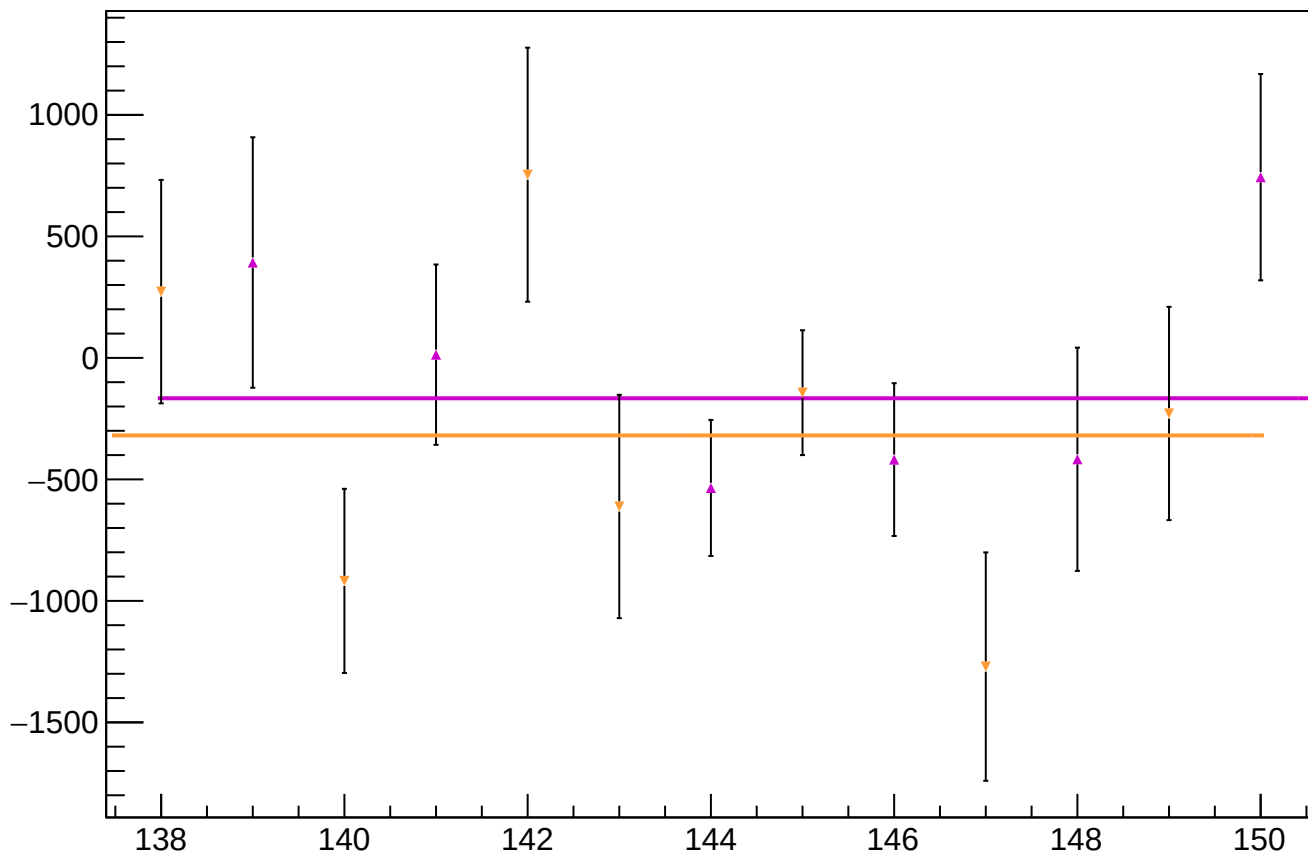
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 321.258+/-0.105  $\chi^2/\text{NDF}$ :409073.8/5

Out: 319.002+/-0.104  $\chi^2/\text{NDF}$ :517989.9/6

All: 320.119+/-0.074  $\chi^2/\text{NDF}$ : 927294.7/12

asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -319.038+/-149.125  $\chi^2/\text{NDF}$ :13.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -166.177+/-150.430  $\chi^2/\text{NDF}$ :8.7/5

Left: -243.274+/-105.906  $\chi^2/\text{NDF}$ : 22.6/12

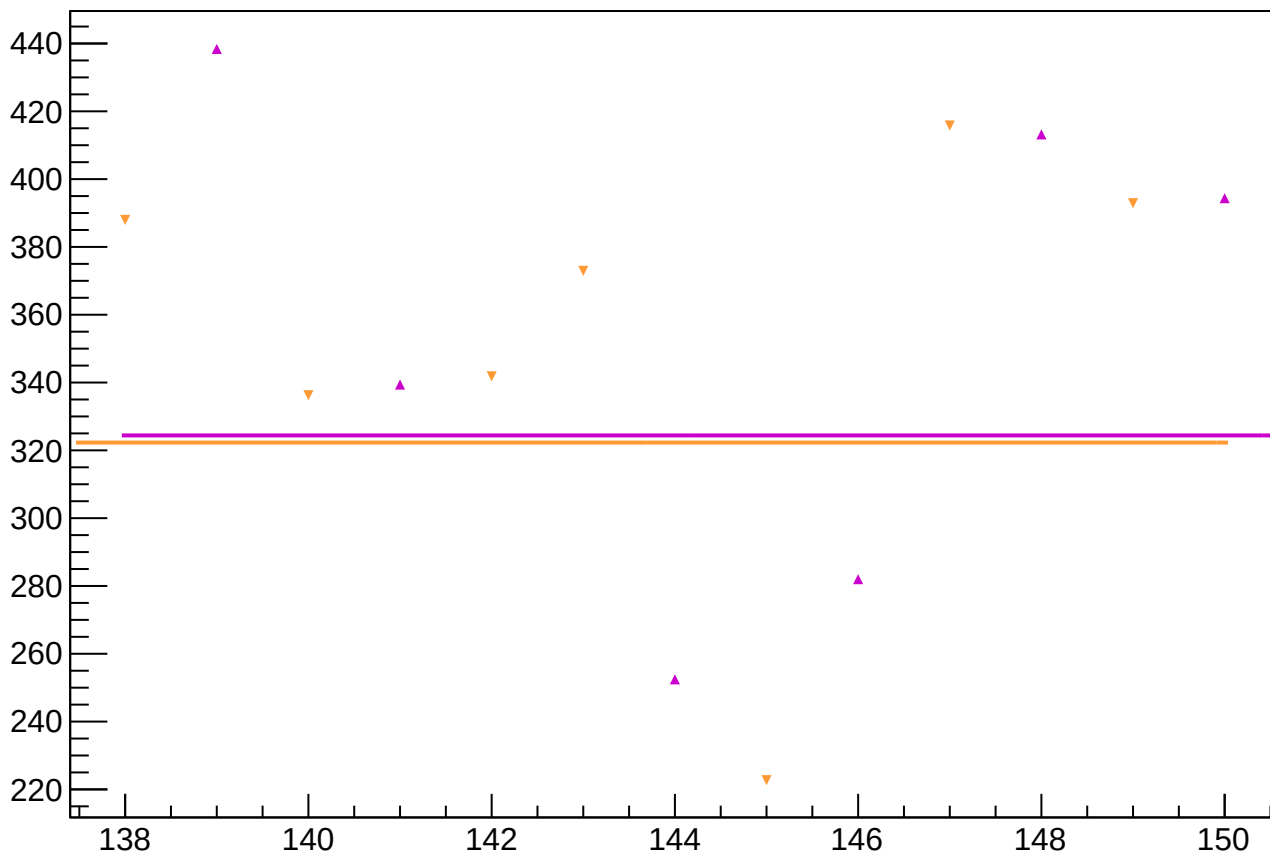
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -166.177+/-150.430  $\chi^2/\text{NDF}$ :8.7/5

Out: -319.038+/-149.125  $\chi^2/\text{NDF}$ :13.4/6

All: -243.274+/-105.906  $\chi^2/\text{NDF}$ : 22.6/12

asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 322.294+/-0.105  $\chi^2/\text{NDF}$ : 502113.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 324.401+/-0.106  $\chi^2/\text{NDF}$ : 398626.7/5

Left: 323.338+/-0.075  $\chi^2/\text{NDF}$ : 900938.5/12

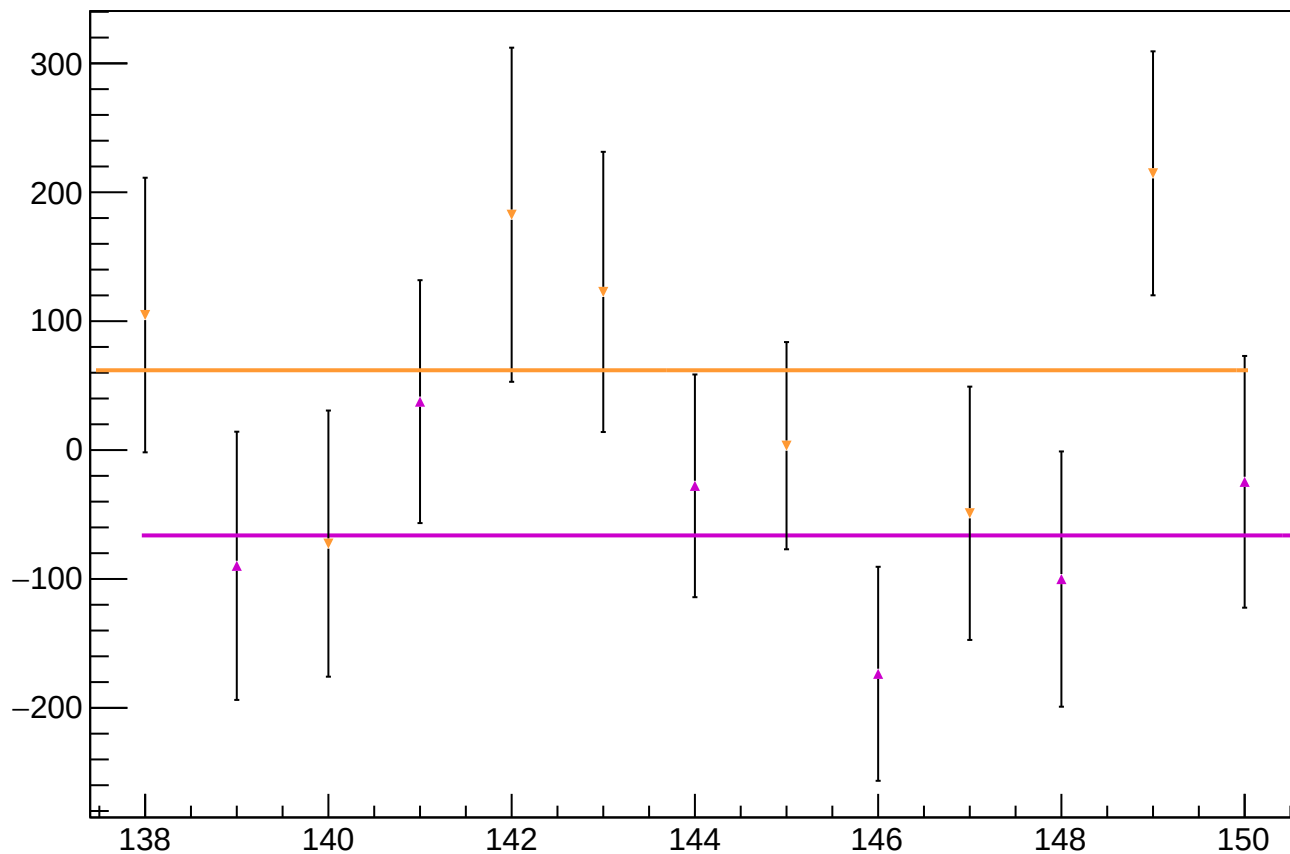
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 324.401+/-0.106  $\chi^2/\text{NDF}$ : 398626.7/5

Out: 322.294+/-0.105  $\chi^2/\text{NDF}$ : 502113.9/6

All: 323.338+/-0.075  $\chi^2/\text{NDF}$ : 900938.5/12

reg\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 61.913+/-37.900  $\chi^2/\text{NDF}$ : 7.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -66.213+/-38.041  $\chi^2/\text{NDF}$ : 3.4/5

Left: -1.912+/-26.849  $\chi^2/\text{NDF}$ : 16.6/12

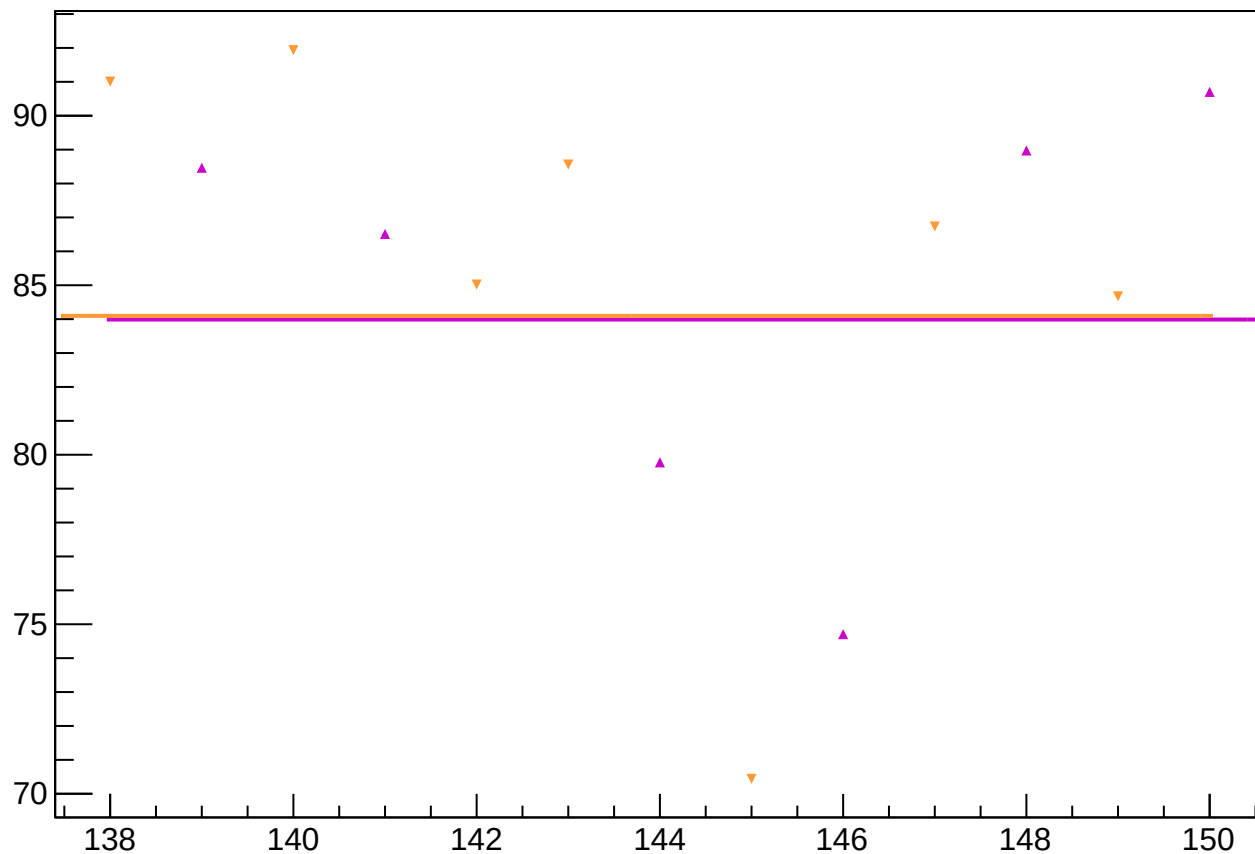
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -66.213+/-38.041  $\chi^2/\text{NDF}$ : 3.4/5

Out: 61.913+/-37.900  $\chi^2/\text{NDF}$ : 7.4/6

All: -1.912+/-26.849  $\chi^2/\text{NDF}$ : 16.6/12

reg\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 84.097+/-0.027  $\chi^2/\text{NDF}$ : 82675.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 83.988+/-0.027  $\chi^2/\text{NDF}$ : 49424.1/5

Left: 84.043+/-0.019  $\chi^2/\text{NDF}$ : 132107.5/12

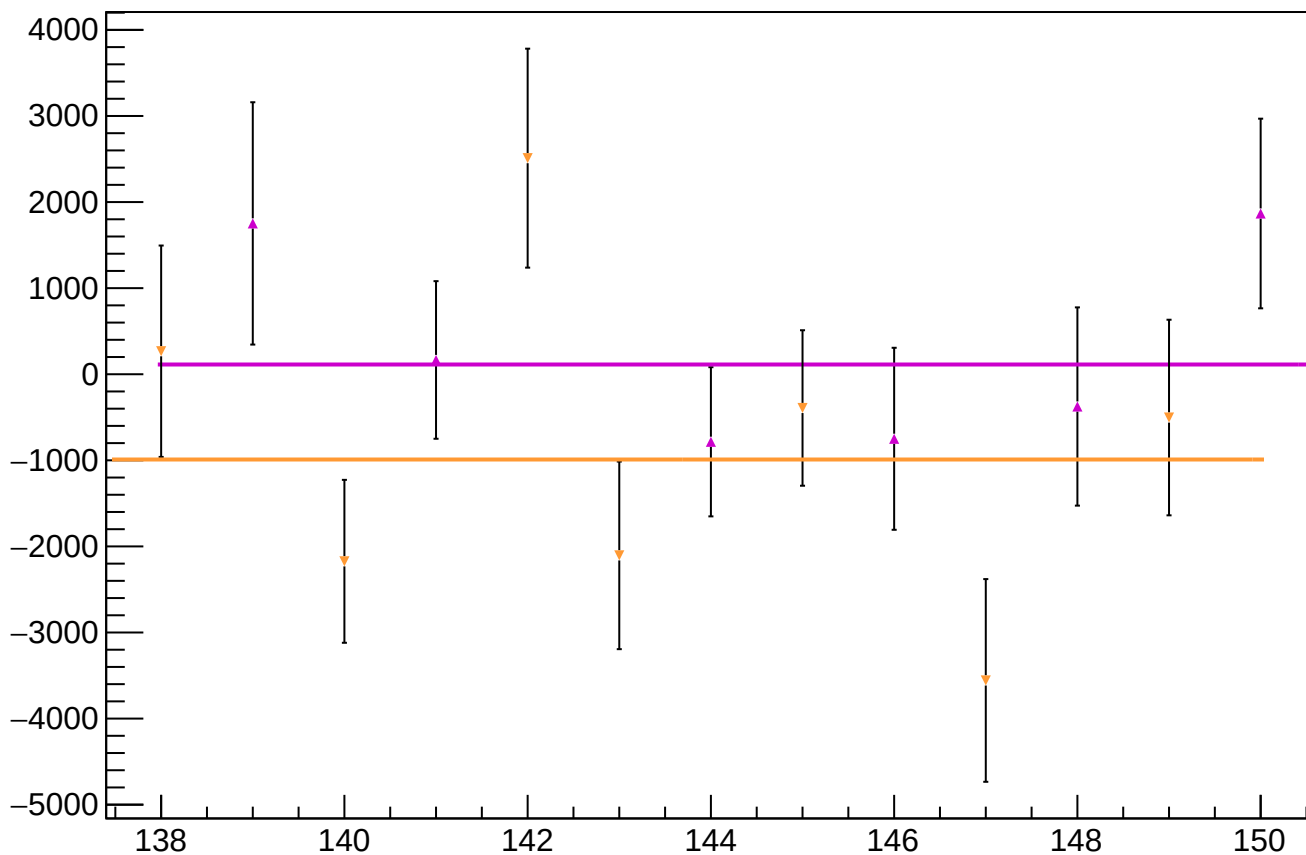
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 83.988+/-0.027  $\chi^2/\text{NDF}$ : 49424.1/5

Out: 84.097+/-0.027  $\chi^2/\text{NDF}$ : 82675.2/6

All: 84.043+/-0.019  $\chi^2/\text{NDF}$ : 132107.5/12

asym\_sam\_24\_68\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -990.463+/-409.512  $\chi^2/\text{NDF}$ :16.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 113.096+/-426.272  $\chi^2/\text{NDF}$ :5.8/5

Left: -460.805+/-295.316  $\chi^2/\text{NDF}$ : 25.9/12

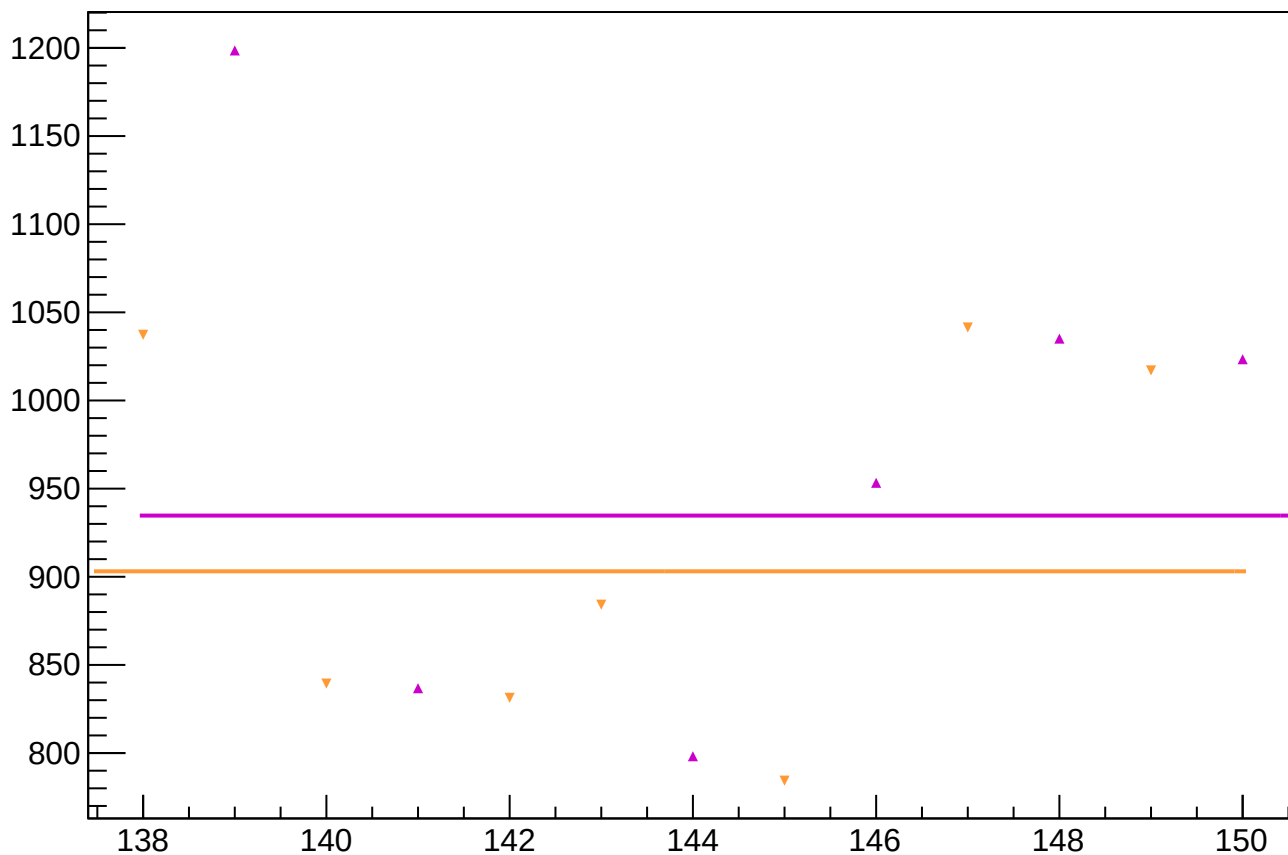
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 113.096+/-426.272  $\chi^2/\text{NDF}$ :5.8/5

Out: -990.463+/-409.512  $\chi^2/\text{NDF}$ :16.6/6

All: -460.805+/-295.316  $\chi^2/\text{NDF}$ : 25.9/12

asym\_sam\_24\_68\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 903.102+/-0.290  $\chi^2/\text{NDF}$ :122227.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 934.714+/-0.301  $\chi^2/\text{NDF}$ :171605.8/5

Left: 918.274+/-0.209  $\chi^2/\text{NDF}$ : 299552.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

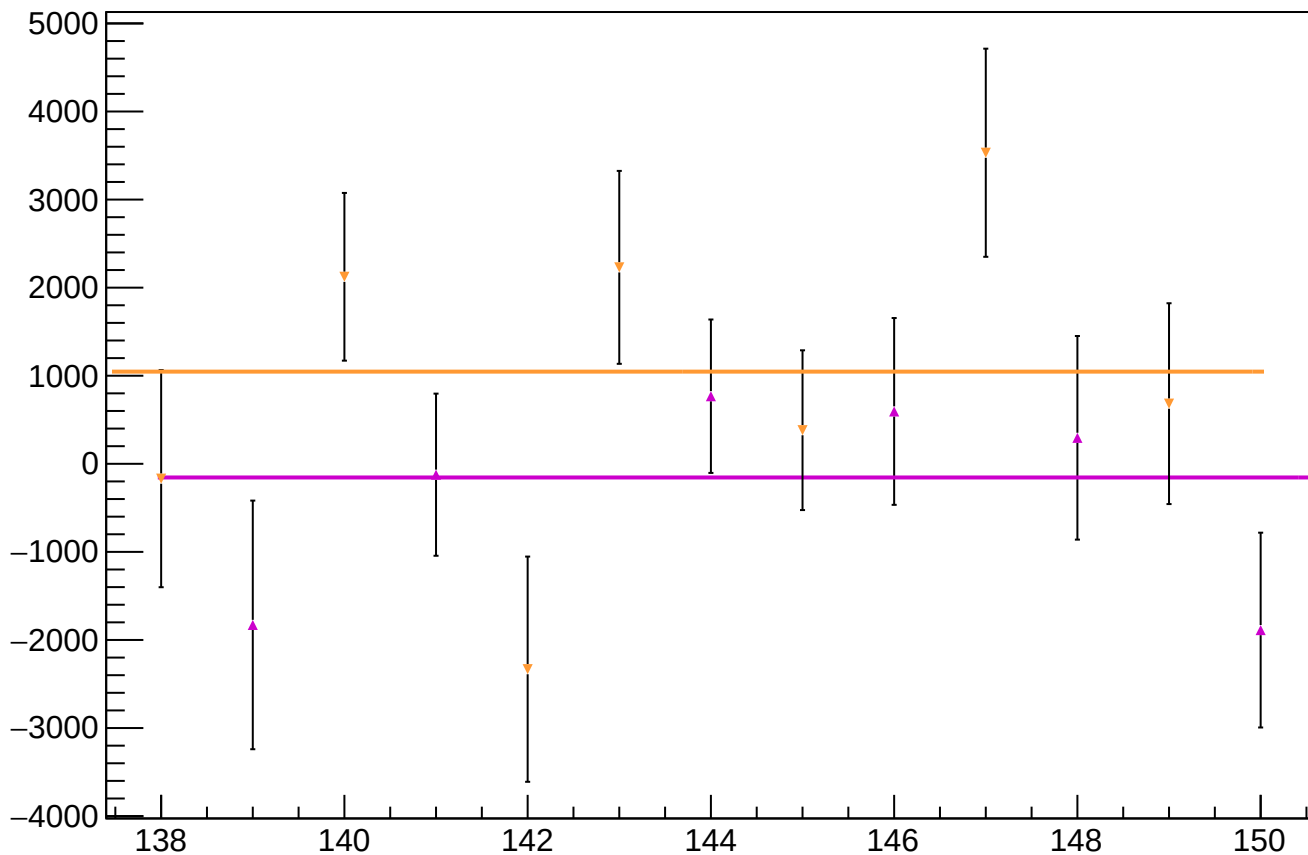
In: 934.714+/-0.301  $\chi^2/\text{NDF}$ :171605.8/5

Out: 903.102+/-0.290  $\chi^2/\text{NDF}$ :122227.0/6

All: 918.274+/-0.209  $\chi^2/\text{NDF}$ : 299552.9/12



asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1046.655+/-411.407  $\chi^2/\text{NDF}$ :15.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -155.108+/-428.117  $\chi^2/\text{NDF}$ :5.6/5

Left: 469.684+/-296.640  $\chi^2/\text{NDF}$ : 25.2/12

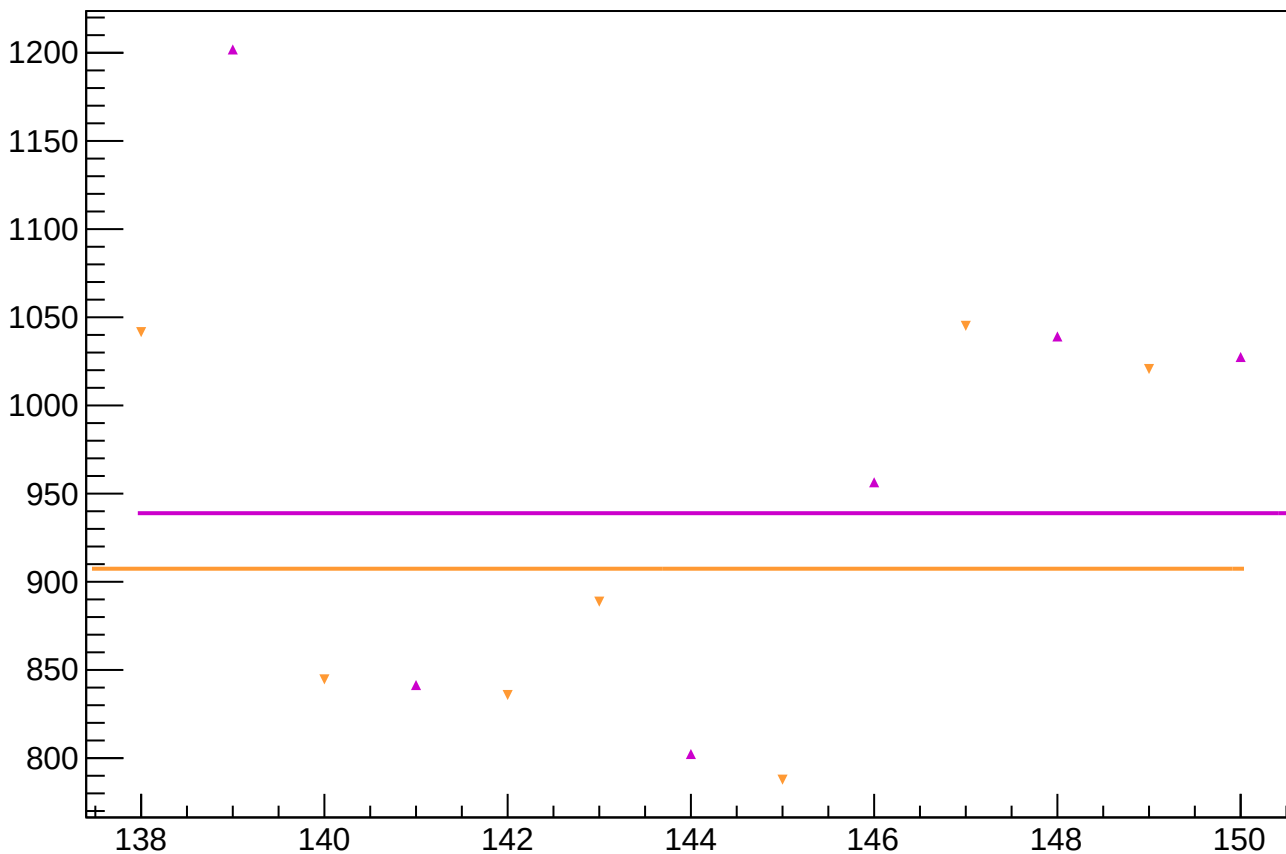
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -155.108+/-428.117  $\chi^2/\text{NDF}$ :5.6/5

Out: 1046.655+/-411.407  $\chi^2/\text{NDF}$ :15.5/6

All: 469.684+/-296.640  $\chi^2/\text{NDF}$ : 25.2/12

asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 907.411+/-0.291  $\chi^2/\text{NDF}$ :120954.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 938.901+/-0.303  $\chi^2/\text{NDF}$ :169460.3/5

Left: 922.529+/-0.210  $\chi^2/\text{NDF}$ : 296040.9/12

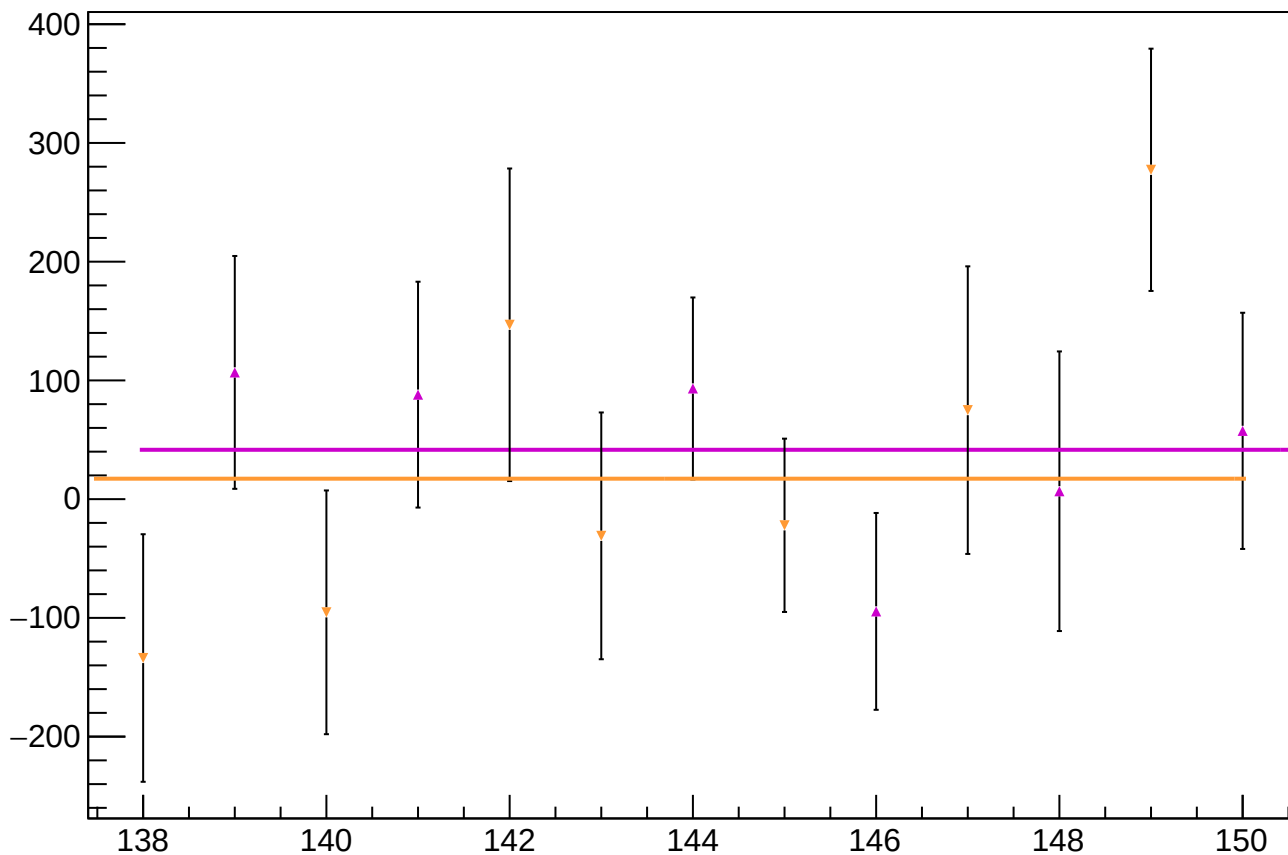
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 938.901+/-0.303  $\chi^2/\text{NDF}$ :169460.3/5

Out: 907.411+/-0.291  $\chi^2/\text{NDF}$ :120954.9/6

All: 922.529+/-0.210  $\chi^2/\text{NDF}$ : 296040.9/12

reg\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 17.229 $\pm$ 38.090  $\chi^2$ /NDF:11.5/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 41.572 $\pm$ 37.698  $\chi^2$ /NDF:3.9/5

Left: 29.527 $\pm$ 26.794  $\chi^2$ /NDF: 15.7/12

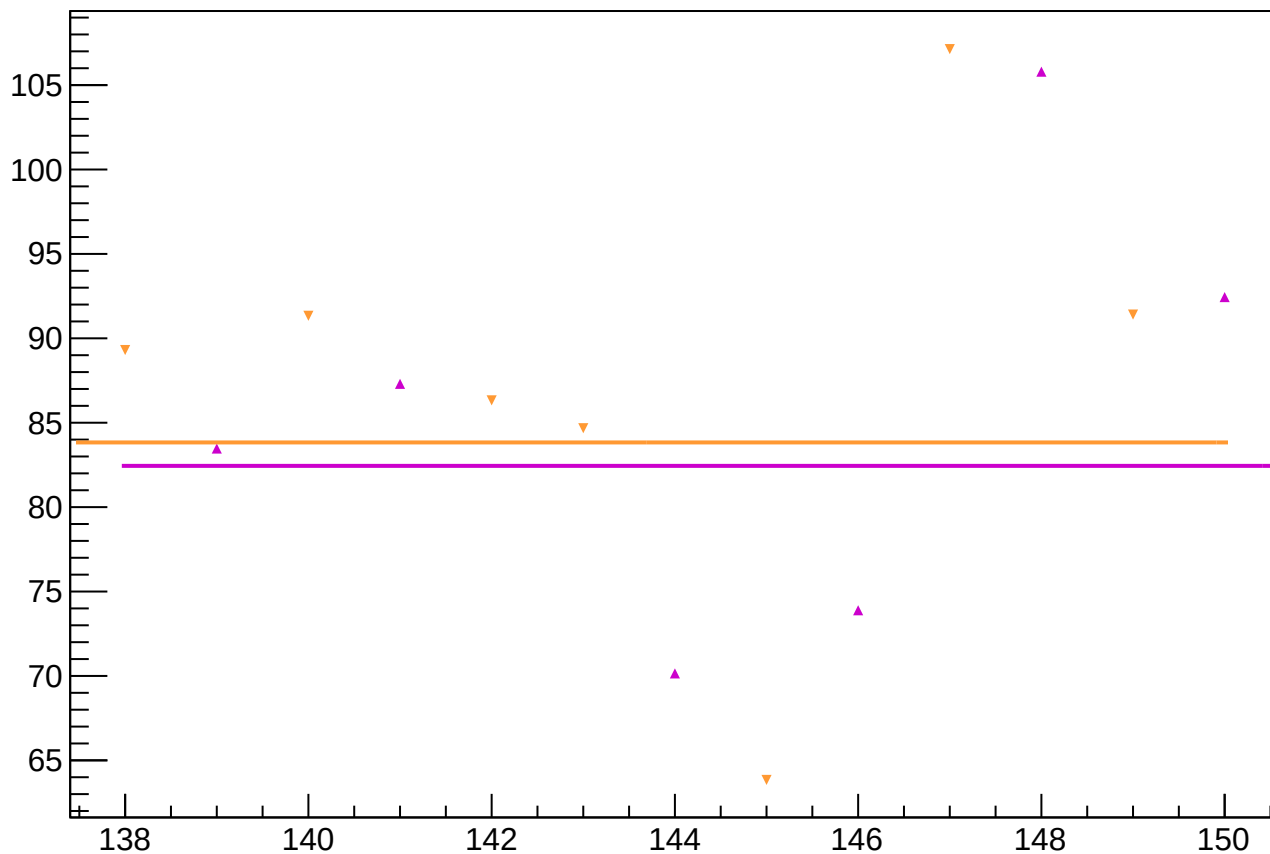
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 41.572 $\pm$ 37.698  $\chi^2$ /NDF:3.9/5

Out: 17.229 $\pm$ 38.090  $\chi^2$ /NDF:11.5/6

All: 29.527 $\pm$ 26.794  $\chi^2$ /NDF: 15.7/12

reg\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 83.833+/-0.027  $\chi^2/\text{NDF}$ :252182.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 82.445+/-0.027  $\chi^2/\text{NDF}$ :177108.5/5

Left: 83.131+/-0.019  $\chi^2/\text{NDF}$ : 430632.3/12

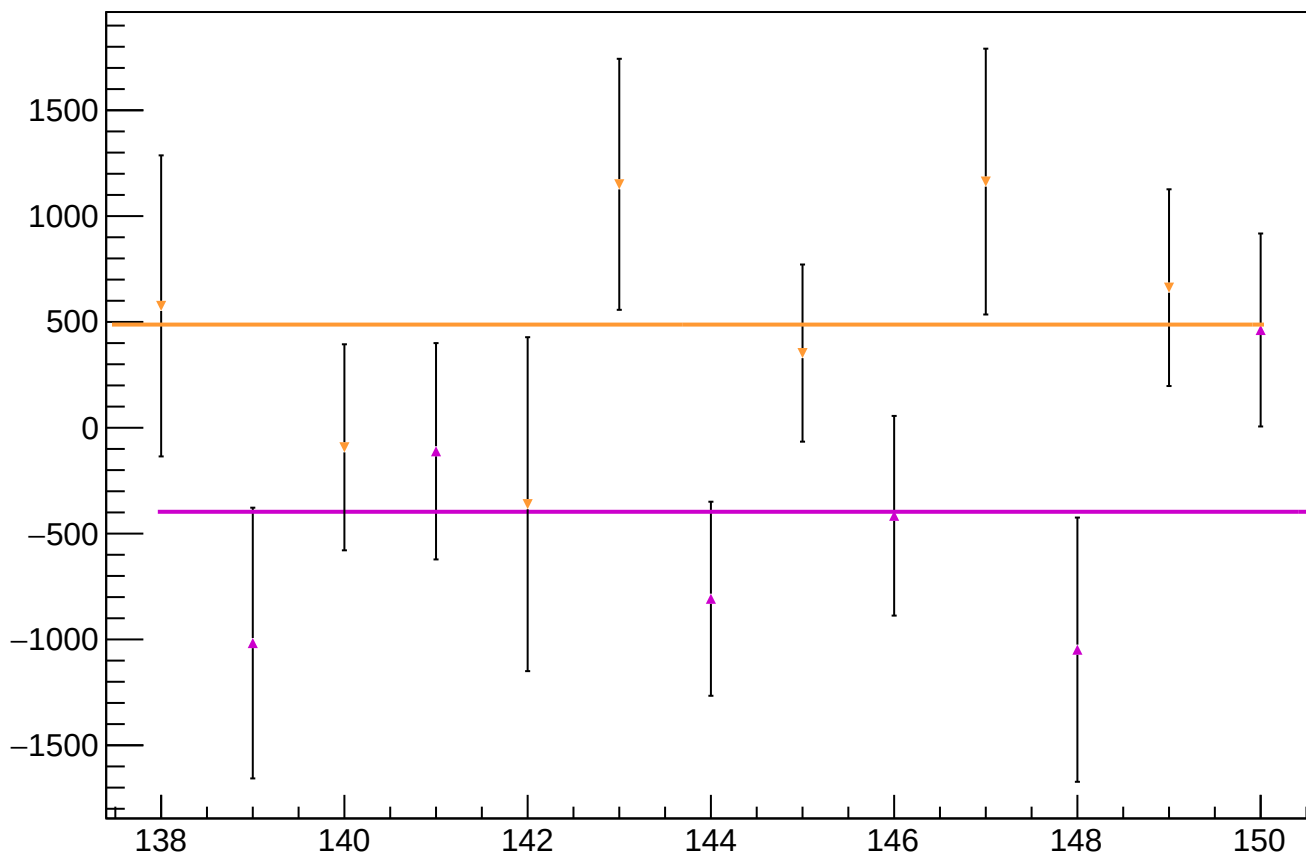
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 82.445+/-0.027  $\chi^2/\text{NDF}$ :177108.5/5

Out: 83.833+/-0.027  $\chi^2/\text{NDF}$ :252182.1/6

All: 83.131+/-0.019  $\chi^2/\text{NDF}$ : 430632.3/12

asym\_sam\_26\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 487.500+/-206.169  $\chi^2/\text{NDF}$ : 5.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -396.918+/-208.937  $\chi^2/\text{NDF}$ : 6.7/5

Left: 51.188+/-146.752  $\chi^2/\text{NDF}$ : 21.0/12

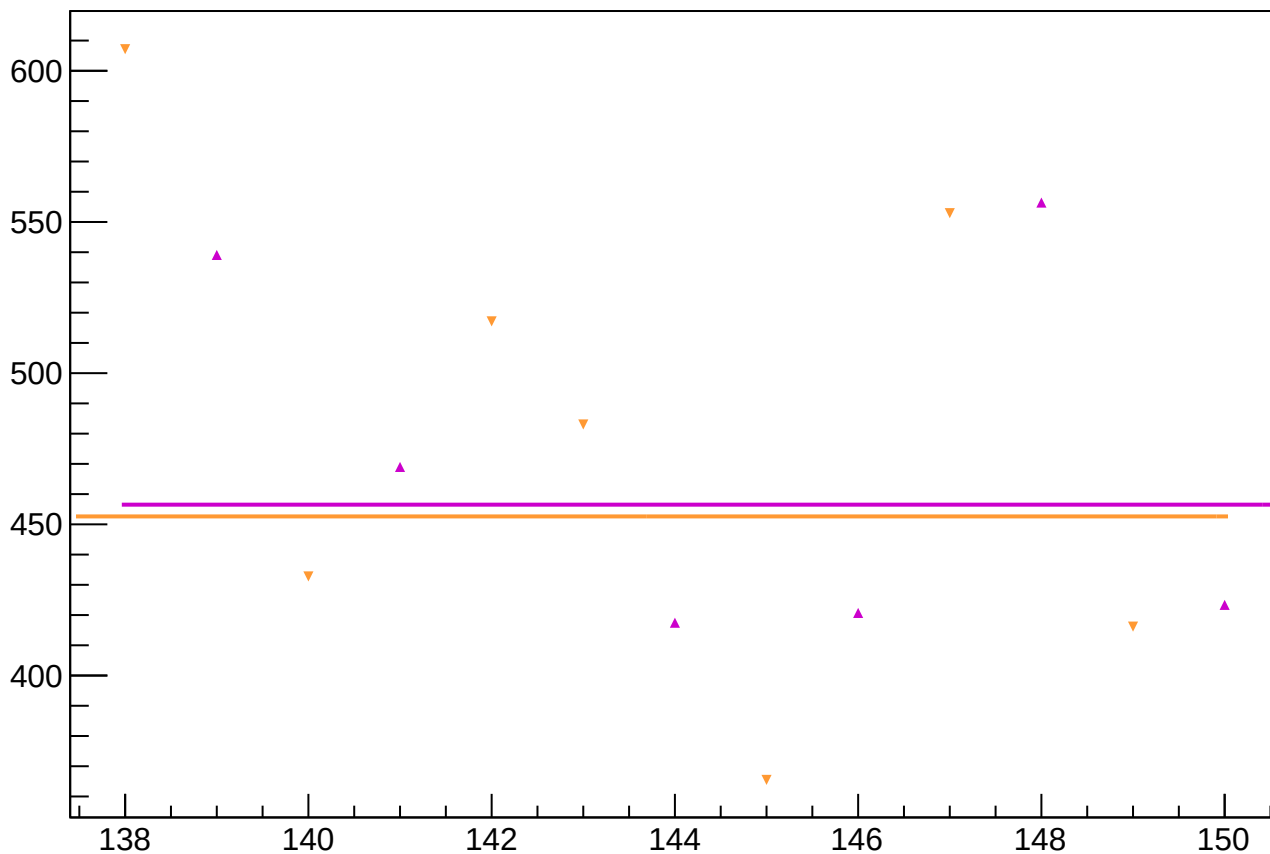
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -396.918+/-208.937  $\chi^2/\text{NDF}$ : 6.7/5

Out: 487.500+/-206.169  $\chi^2/\text{NDF}$ : 5.2/6

All: 51.188+/-146.752  $\chi^2/\text{NDF}$ : 21.0/12

asym\_sam\_26\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 452.621+/-0.146  $\chi^2/\text{NDF}$ :266437.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 456.510+/-0.148  $\chi^2/\text{NDF}$ :122400.6/5

Left: 454.539+/-0.104  $\chi^2/\text{NDF}$ : 389188.9/12

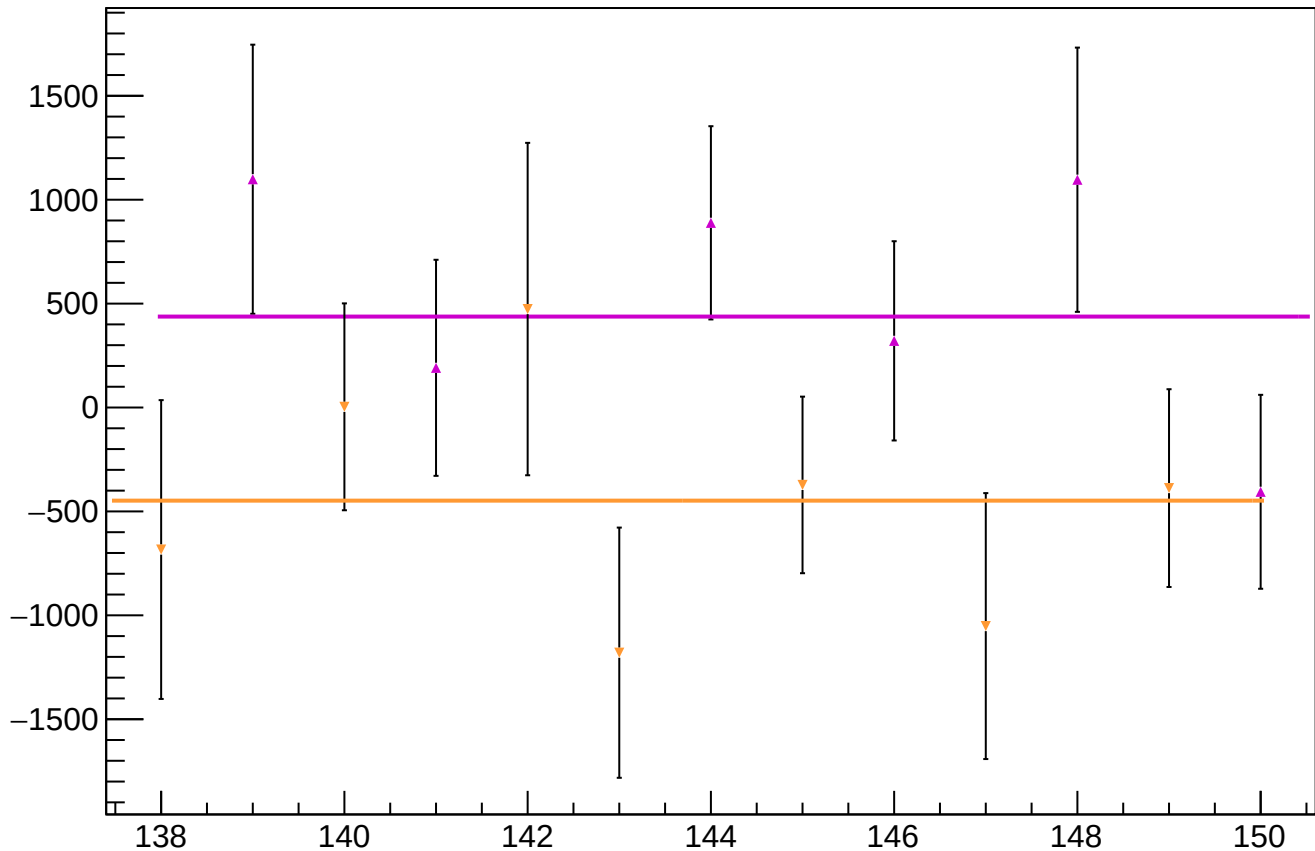
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 456.510+/-0.148  $\chi^2/\text{NDF}$ :122400.6/5

Out: 452.621+/-0.146  $\chi^2/\text{NDF}$ :266437.3/6

All: 454.539+/-0.104  $\chi^2/\text{NDF}$ : 389188.9/12

asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -448.117+/-209.934  $\chi^2/\text{NDF}$ : 4.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 437.627+/-212.581  $\chi^2/\text{NDF}$ : 6.6/5

Left: -10.795+/-149.373  $\chi^2/\text{NDF}$ : 20.1/12

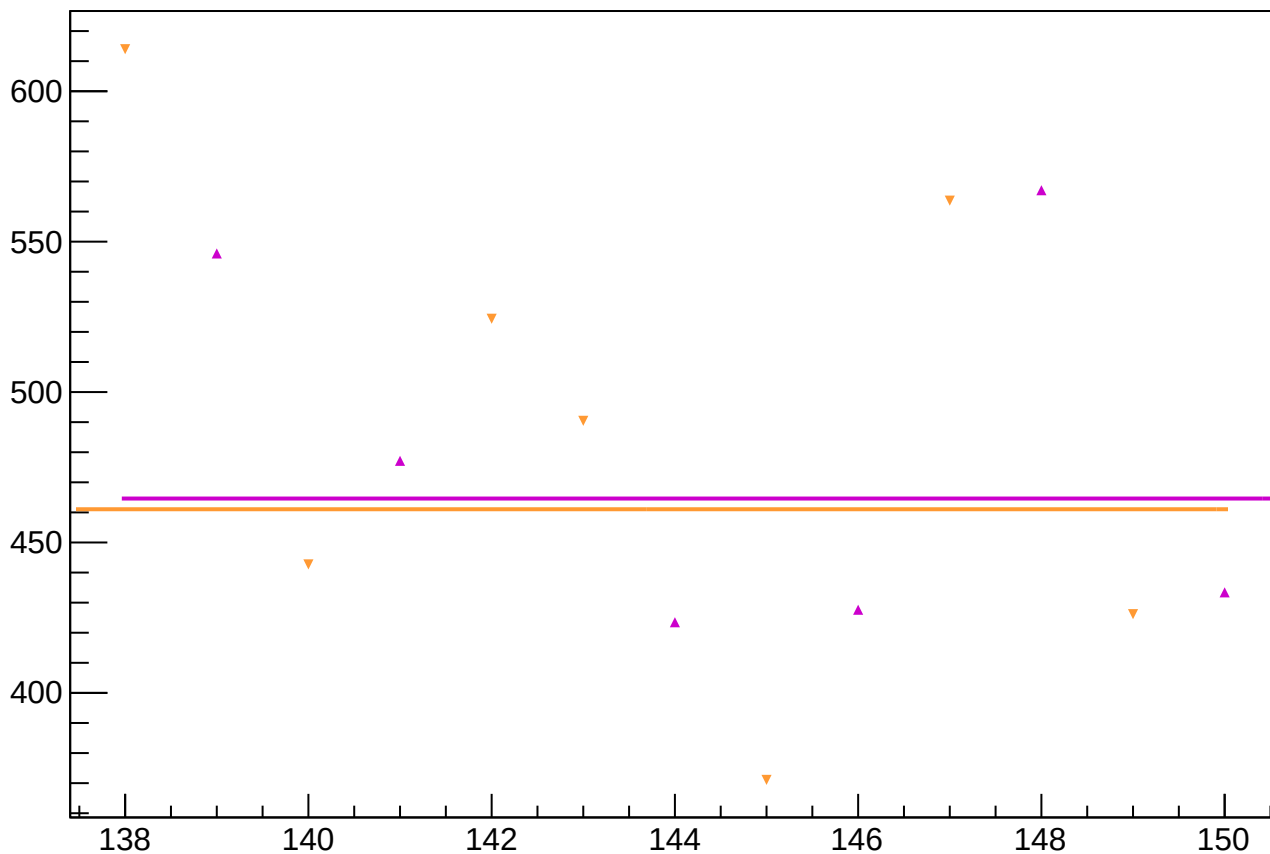
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 437.627+/-212.581  $\chi^2/\text{NDF}$ : 6.6/5

Out: -448.117+/-209.934  $\chi^2/\text{NDF}$ : 4.7/6

All: -10.795+/-149.373  $\chi^2/\text{NDF}$ : 20.1/12

asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 461.049+/-0.148  $\chi^2/\text{NDF}$ :262306.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 464.608+/-0.150  $\chi^2/\text{NDF}$ :121255.1/5

Left: 462.806+/-0.106  $\chi^2/\text{NDF}$ : 383845.4/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

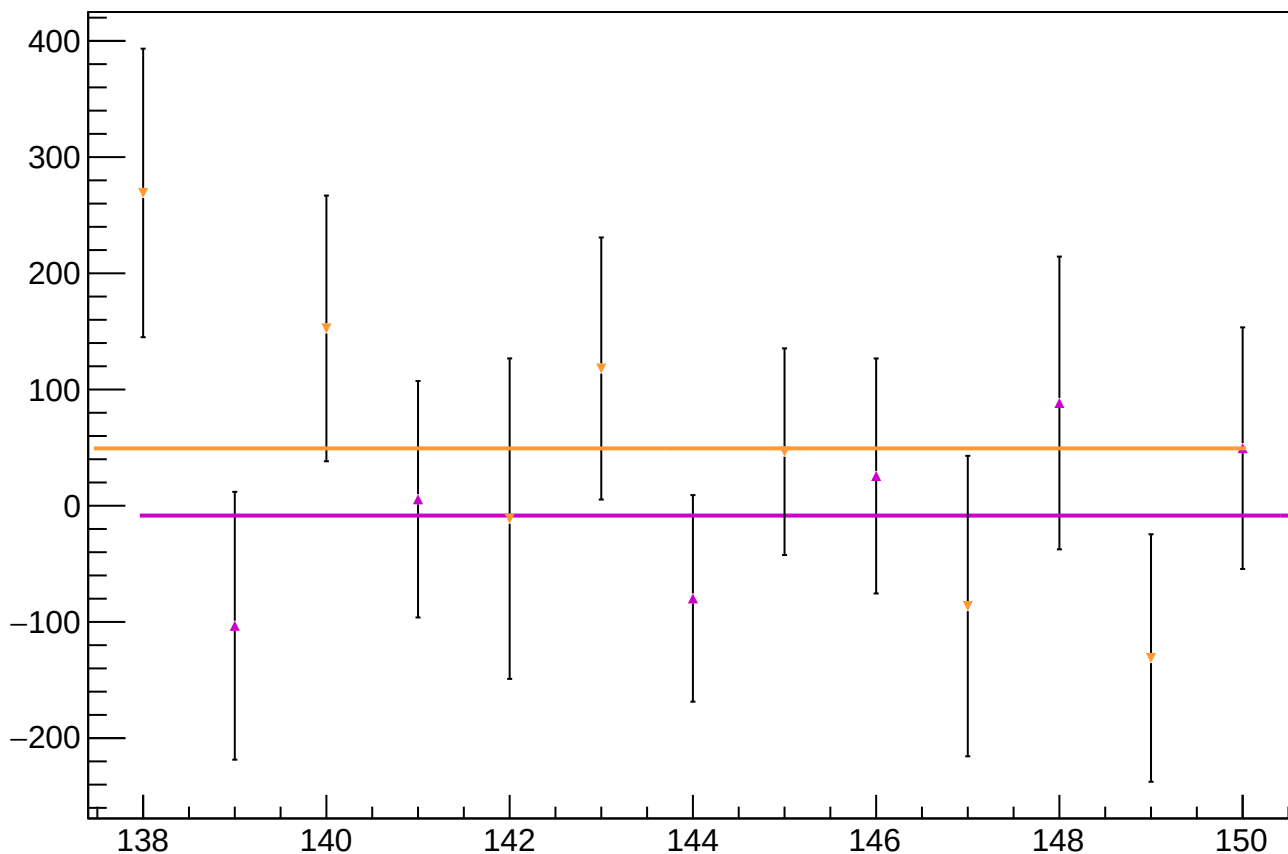
In: 464.608+/-0.150  $\chi^2/\text{NDF}$ :121255.1/5

Out: 461.049+/-0.148  $\chi^2/\text{NDF}$ :262306.5/6

All: 462.806+/-0.106  $\chi^2/\text{NDF}$ : 383845.4/12



reg\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 49.358+/-42.755  $\chi^2/\text{NDF}$ :8.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -8.460+/-42.569  $\chi^2/\text{NDF}$ :2.4/5

Left: 20.323+/-30.167  $\chi^2/\text{NDF}$ : 11.8/12

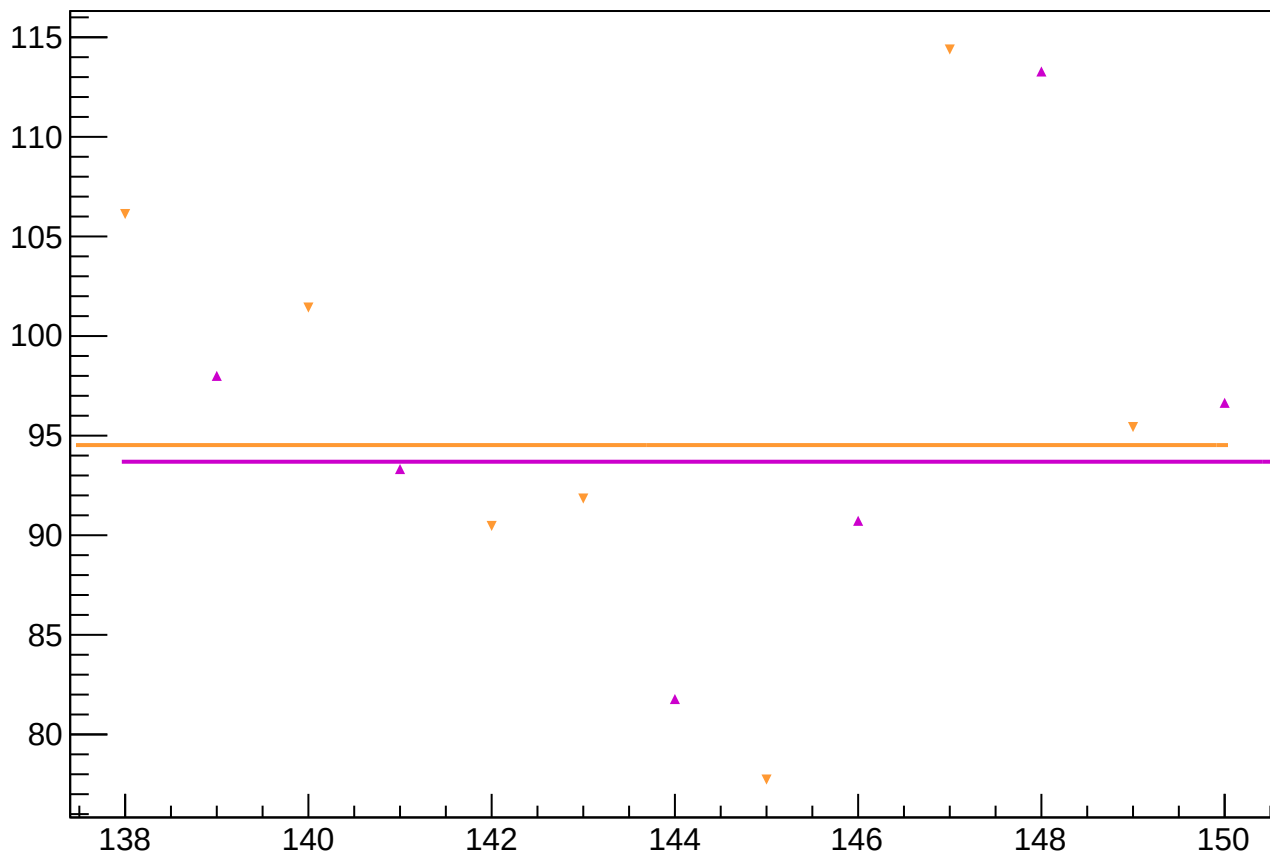
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -8.460+/-42.569  $\chi^2/\text{NDF}$ :2.4/5

Out: 49.358+/-42.755  $\chi^2/\text{NDF}$ :8.5/6

All: 20.323+/-30.167  $\chi^2/\text{NDF}$ : 11.8/12

reg\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 94.527+/-0.030  $\chi^2/\text{NDF}$ :146265.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 93.691+/-0.030  $\chi^2/\text{NDF}$ :90475.6/5

Left: 94.107+/-0.021  $\chi^2/\text{NDF}$ : 237124.5/12

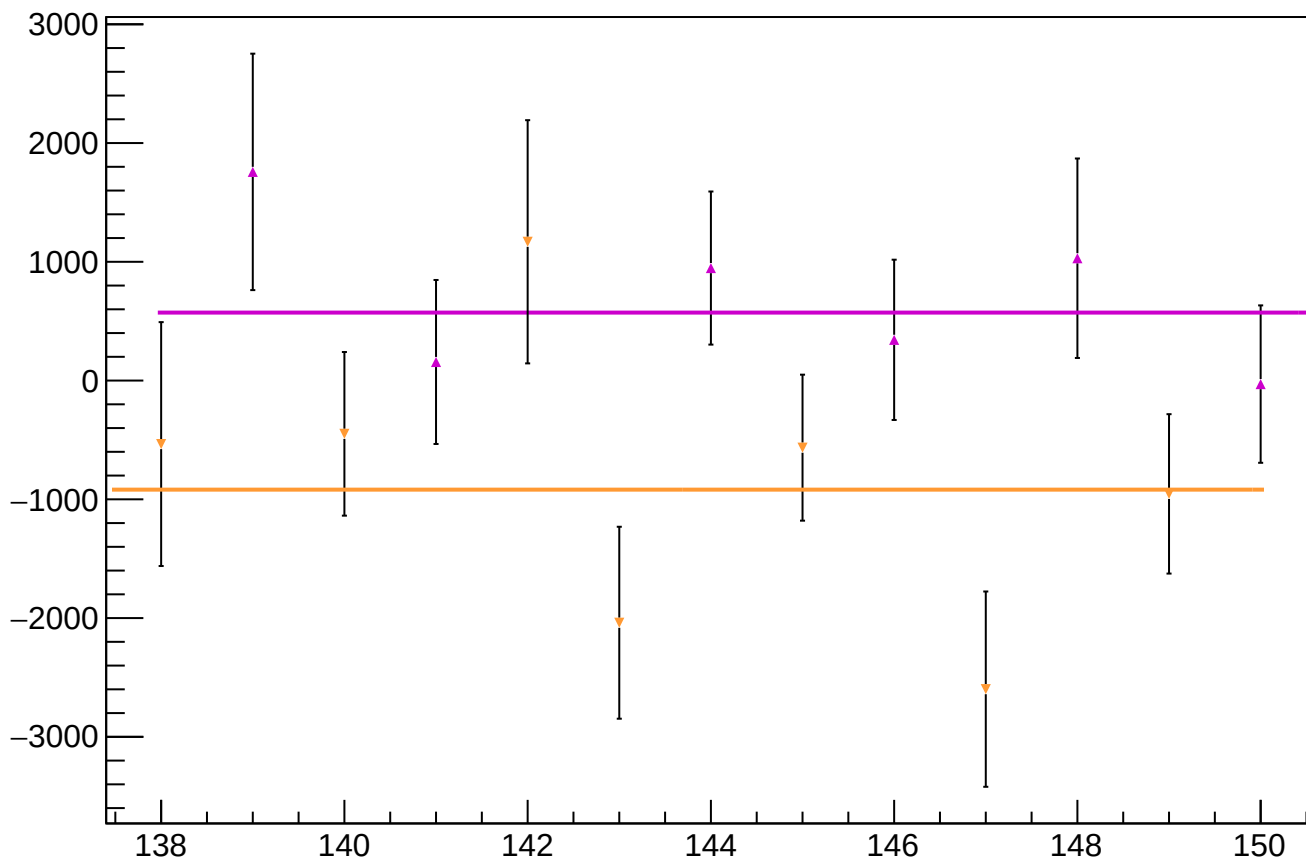
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 93.691+/-0.030  $\chi^2/\text{NDF}$ :90475.6/5

Out: 94.527+/-0.030  $\chi^2/\text{NDF}$ :146265.2/6

All: 94.107+/-0.021  $\chi^2/\text{NDF}$ : 237124.5/12

asym\_sam\_1548\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -918.461+/-290.057  $\chi^2/\text{NDF}$ :11.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 572.384+/-296.123  $\chi^2/\text{NDF}$ :3.4/5

Left: -188.465+/-207.213  $\chi^2/\text{NDF}$ : 27.5/12

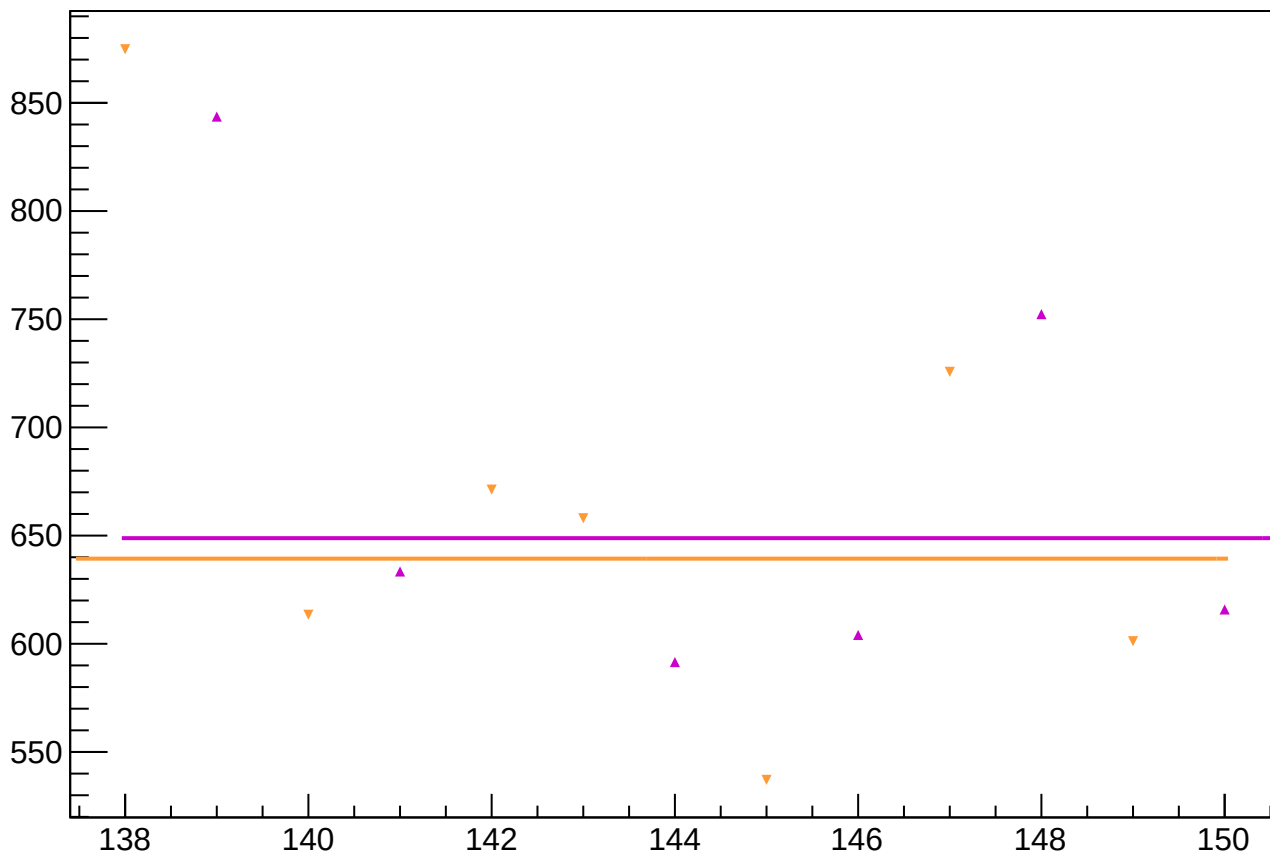
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 572.384+/-296.123  $\chi^2/\text{NDF}$ :3.4/5

Out: -918.461+/-290.057  $\chi^2/\text{NDF}$ :11.2/6

All: -188.465+/-207.213  $\chi^2/\text{NDF}$ : 27.5/12

asym\_sam\_1548\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 639.354+/-0.205  $\chi^2/\text{NDF}$ :194826.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 648.818+/-0.209  $\chi^2/\text{NDF}$ :137536.9/5

Left: 643.988+/-0.147  $\chi^2/\text{NDF}$ : 333405.5/12

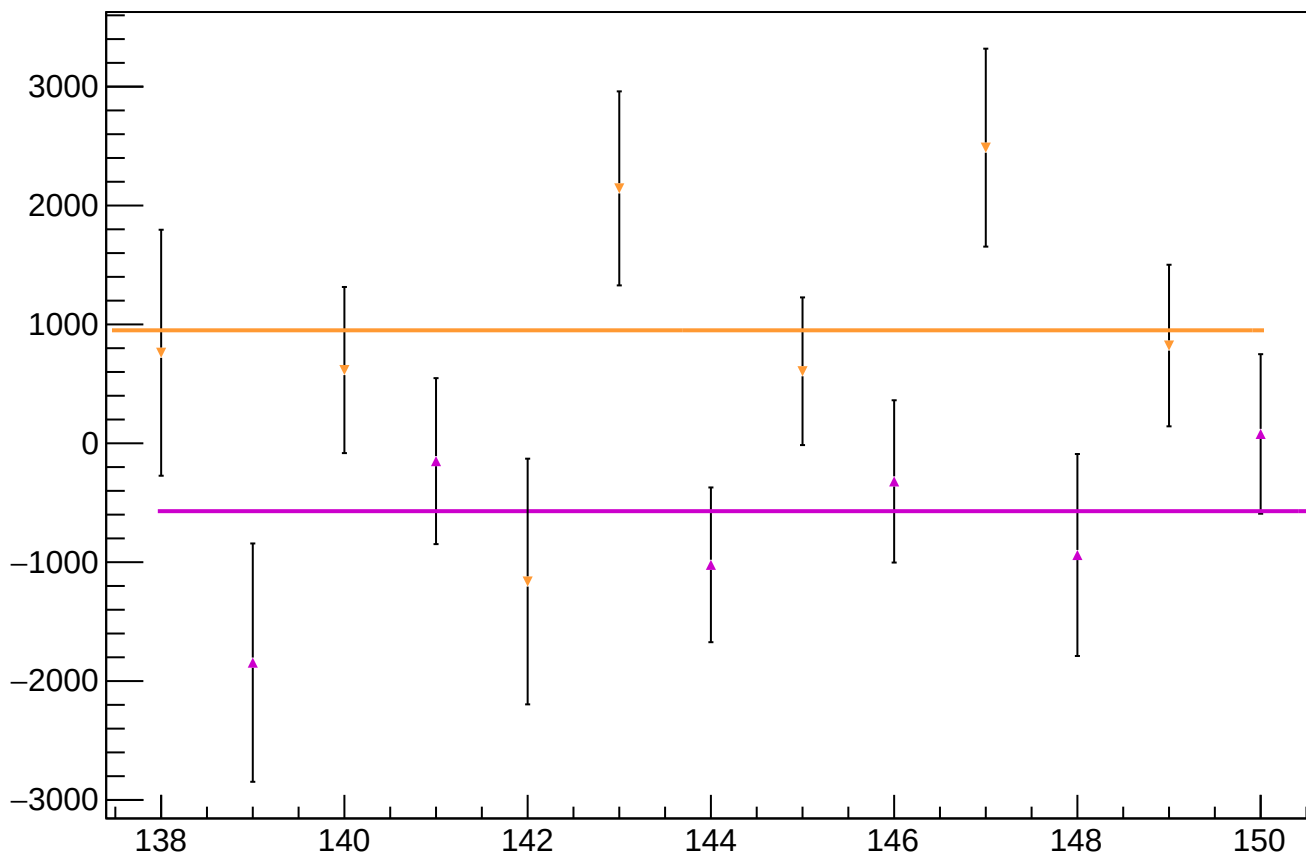
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 648.818+/-0.209  $\chi^2/\text{NDF}$ :137536.9/5

Out: 639.354+/-0.205  $\chi^2/\text{NDF}$ :194826.1/6

All: 643.988+/-0.147  $\chi^2/\text{NDF}$ : 333405.5/12

asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 950.409+/-293.339  $\chi^2/\text{NDF}$ : 10.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -570.817+/-299.309  $\chi^2/\text{NDF}$ : 3.7/5

Left: 205.120+/-209.501  $\chi^2/\text{NDF}$ : 27.2/12

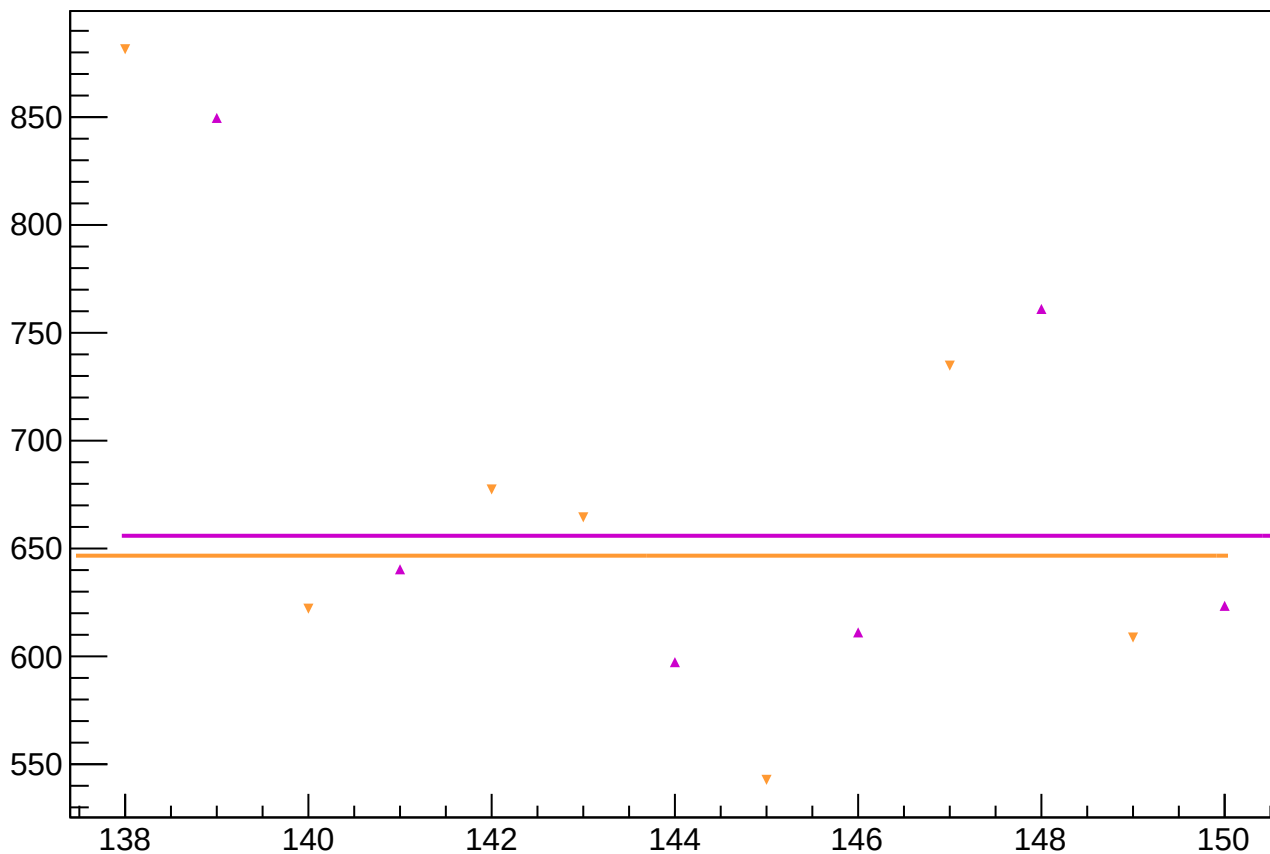
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -570.817+/-299.309  $\chi^2/\text{NDF}$ : 3.7/5

Out: 950.409+/-293.339  $\chi^2/\text{NDF}$ : 10.3/6

All: 205.120+/-209.501  $\chi^2/\text{NDF}$ : 27.2/12

# asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 646.683+/-0.207  $\chi^2/\text{NDF}$ :192825.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 655.913+/-0.212  $\chi^2/\text{NDF}$ :135859.1/5

Left: 651.205+/-0.148  $\chi^2/\text{NDF}$ : 329654.7/12

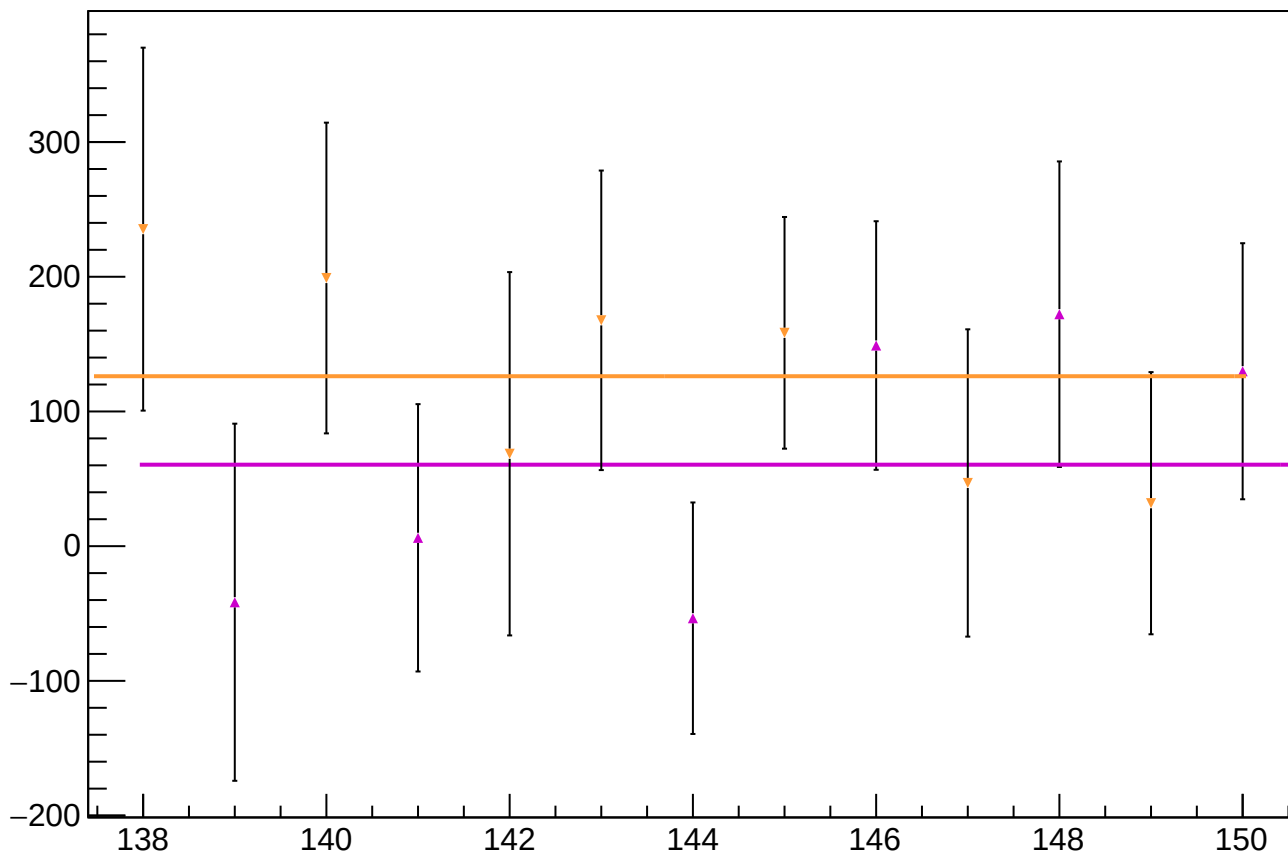
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 655.913+/-0.212  $\chi^2/\text{NDF}$ :135859.1/5

Out: 646.683+/-0.207  $\chi^2/\text{NDF}$ :192825.5/6

All: 651.205+/-0.148  $\chi^2/\text{NDF}$ : 329654.7/12

reg\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 126.159+/-41.388  $\chi^2/\text{NDF}$ : 2.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 60.485+/-40.832  $\chi^2/\text{NDF}$ : 5.1/5

Left: 92.878+/-29.067  $\chi^2/\text{NDF}$ : 9.3/12

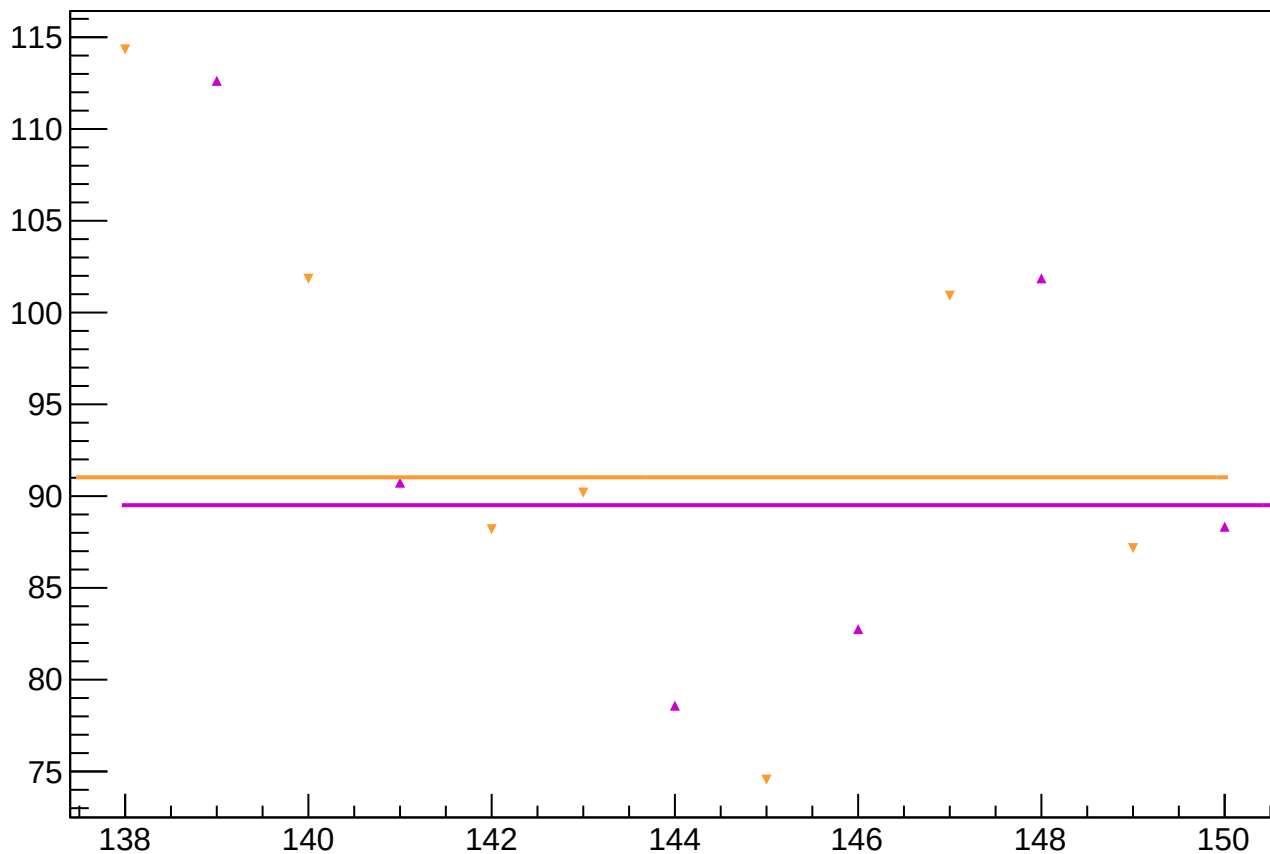
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 60.485+/-40.832  $\chi^2/\text{NDF}$ : 5.1/5

Out: 126.159+/-41.388  $\chi^2/\text{NDF}$ : 2.9/6

All: 92.878+/-29.067  $\chi^2/\text{NDF}$ : 9.3/12

reg\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 91.024+/-0.029  $\chi^2/\text{NDF}$ :170020.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 89.506+/-0.029  $\chi^2/\text{NDF}$ :128212.6/5

Left: 90.255+/-0.021  $\chi^2/\text{NDF}$ : 299596.7/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

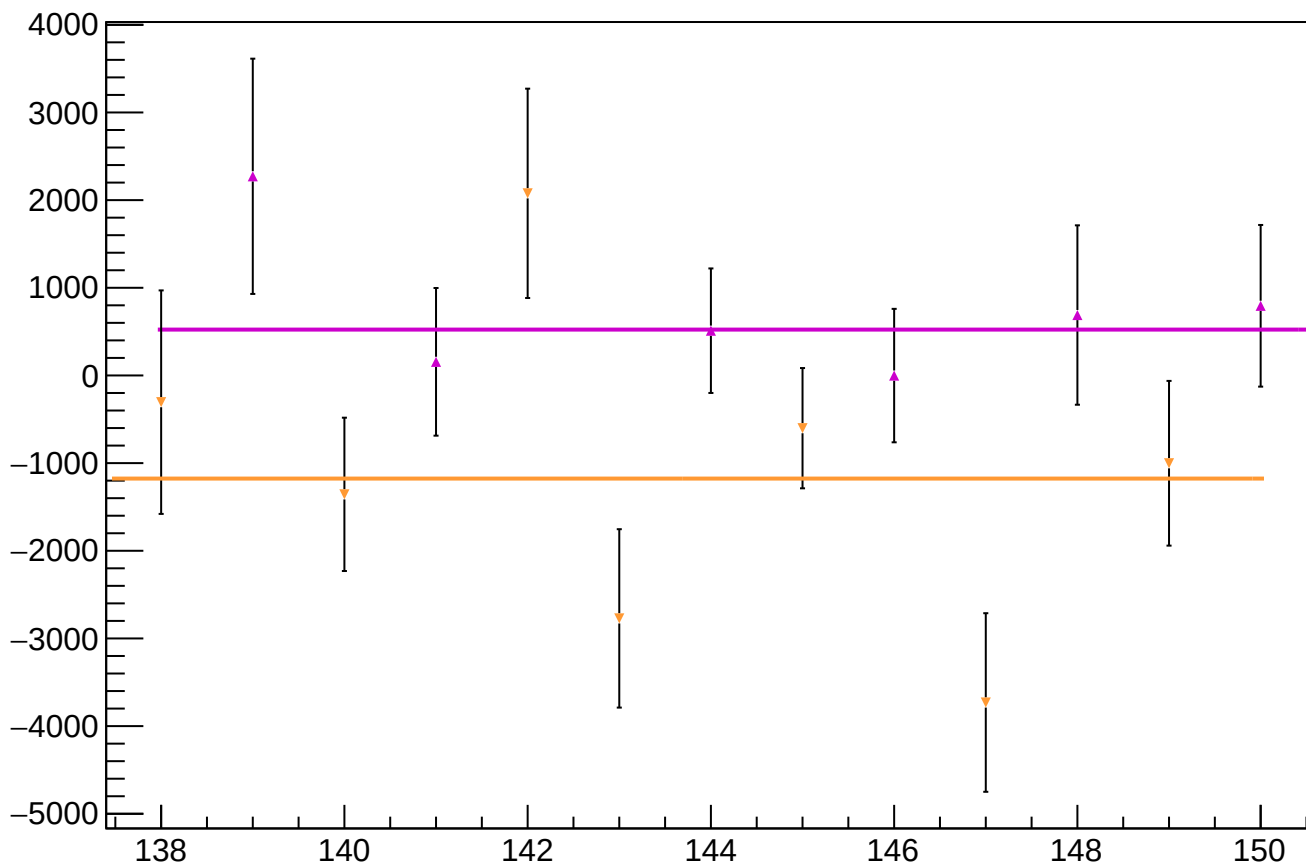
In: 89.506+/-0.029  $\chi^2/\text{NDF}$ :128212.6/5

Out: 91.024+/-0.029  $\chi^2/\text{NDF}$ :170020.0/6

All: 90.255+/-0.021  $\chi^2/\text{NDF}$ : 299596.7/12



asym\_sam\_3748\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1176.302+/-357.786  $\chi^2/\text{NDF}$ :17.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 523.155+/-357.948  $\chi^2/\text{NDF}$ :2.5/5

Left: -326.960+/-253.050  $\chi^2/\text{NDF}$ : 31.2/12

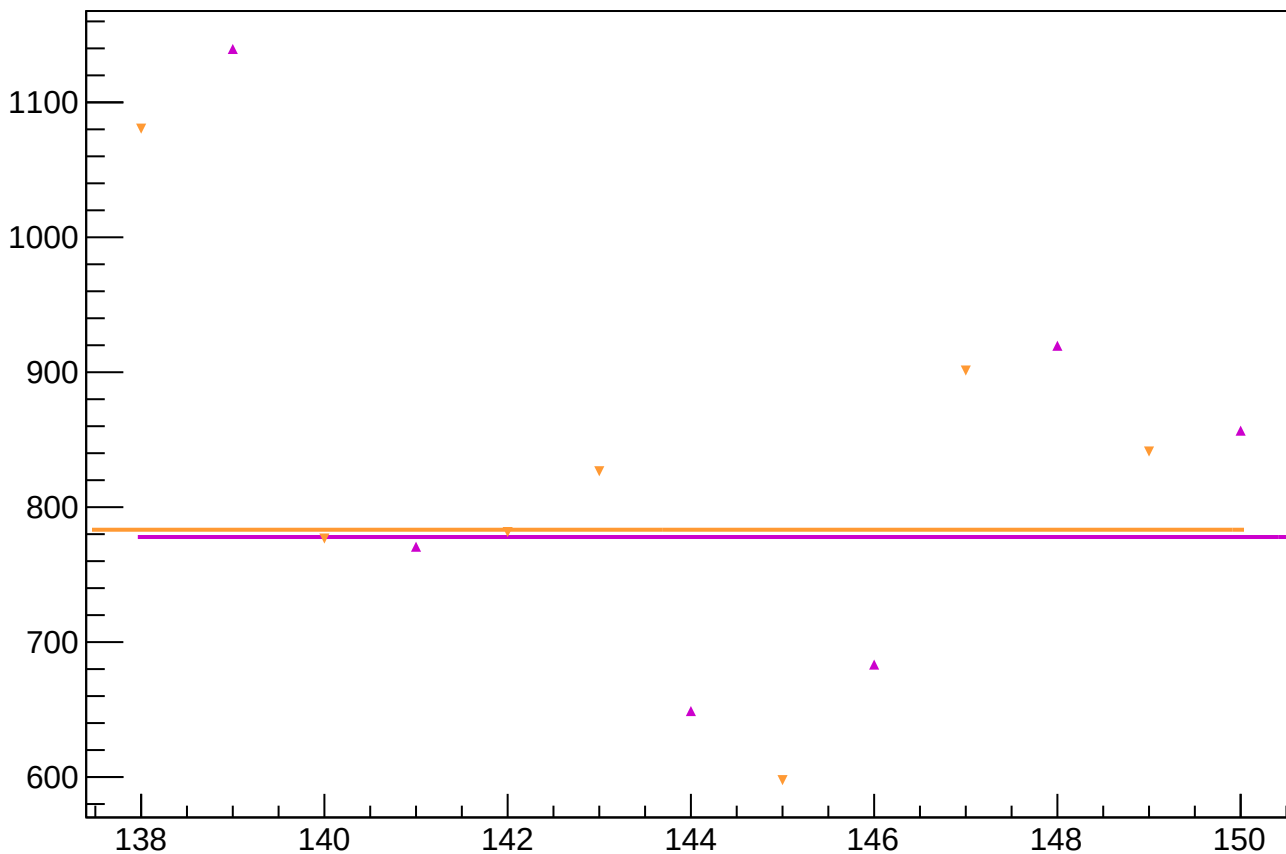
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 523.155+/-357.948  $\chi^2/\text{NDF}$ :2.5/5

Out: -1176.302+/-357.786  $\chi^2/\text{NDF}$ :17.4/6

All: -326.960+/-253.050  $\chi^2/\text{NDF}$ : 31.2/12

asym\_sam\_3748\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 783.283+/-0.253  $\chi^2/\text{NDF}$ :293279.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 777.884+/-0.253  $\chi^2/\text{NDF}$ :295265.3/5

Left: 780.585+/-0.179  $\chi^2/\text{NDF}$ : 588772.5/12

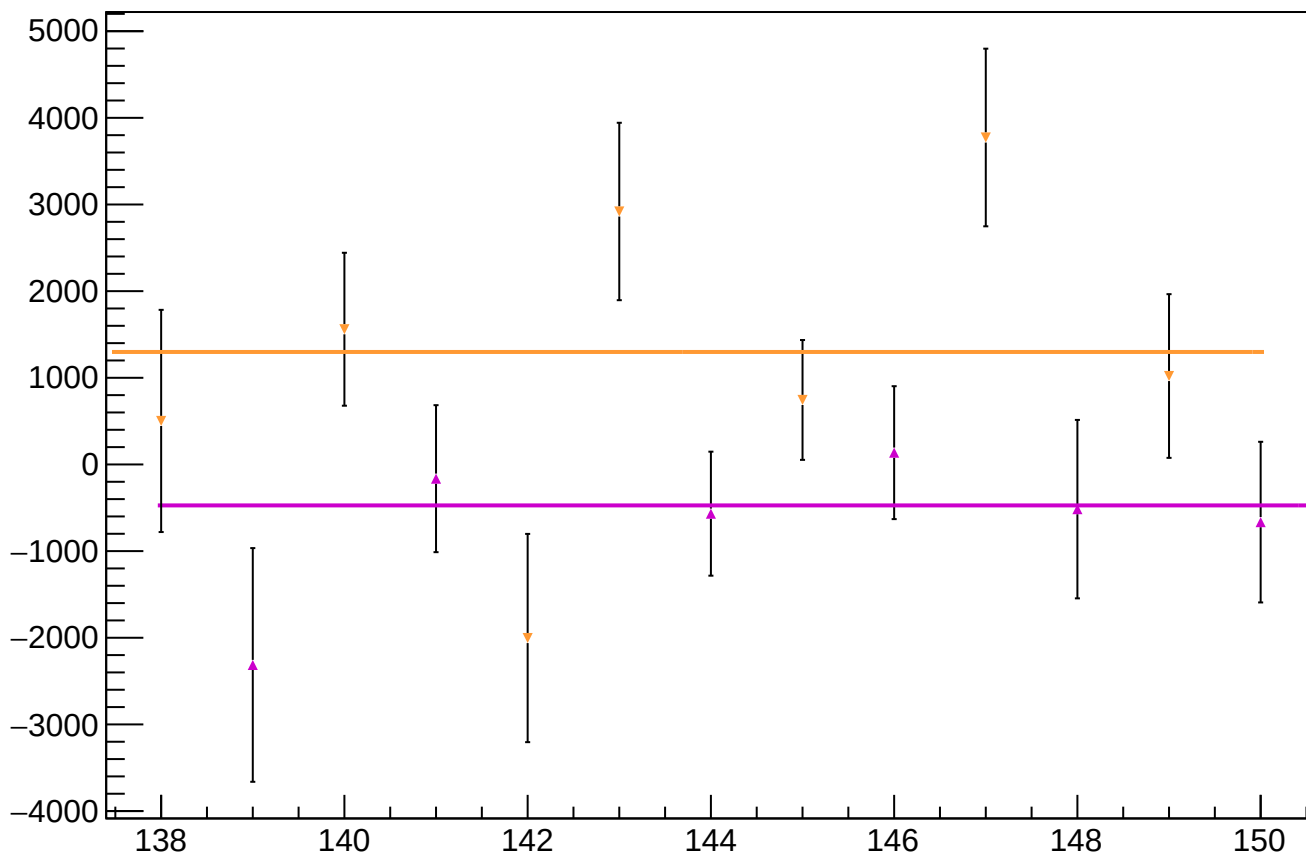
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 777.884+/-0.253  $\chi^2/\text{NDF}$ :295265.3/5

Out: 783.283+/-0.253  $\chi^2/\text{NDF}$ :293279.6/6

All: 780.585+/-0.179  $\chi^2/\text{NDF}$ : 588772.5/12

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1298.160+/-360.295  $\chi^2/\text{NDF}$ :17.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -472.620+/-360.369  $\chi^2/\text{NDF}$ :2.7/5

Left: 412.953+/-254.793  $\chi^2/\text{NDF}$ : 31.9/12

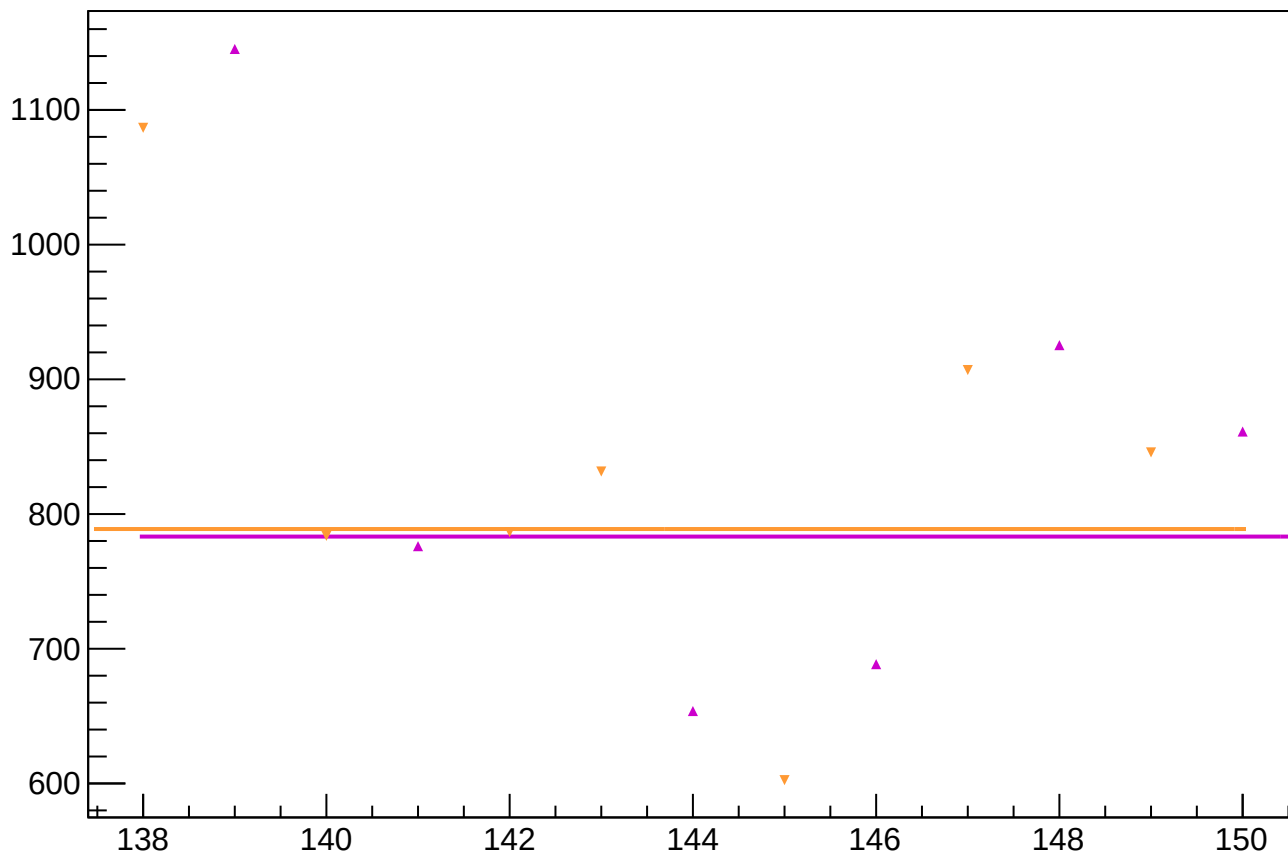
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -472.620+/-360.369  $\chi^2/\text{NDF}$ :2.7/5

Out: 1298.160+/-360.295  $\chi^2/\text{NDF}$ :17.1/6

All: 412.953+/-254.793  $\chi^2/\text{NDF}$ : 31.9/12

# asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 788.885+/-0.255  $\chi^2/\text{NDF}$ :290628.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 783.278+/-0.255  $\chi^2/\text{NDF}$ :292543.3/5

Left: 786.082+/-0.180  $\chi^2/\text{NDF}$ : 583414.1/12

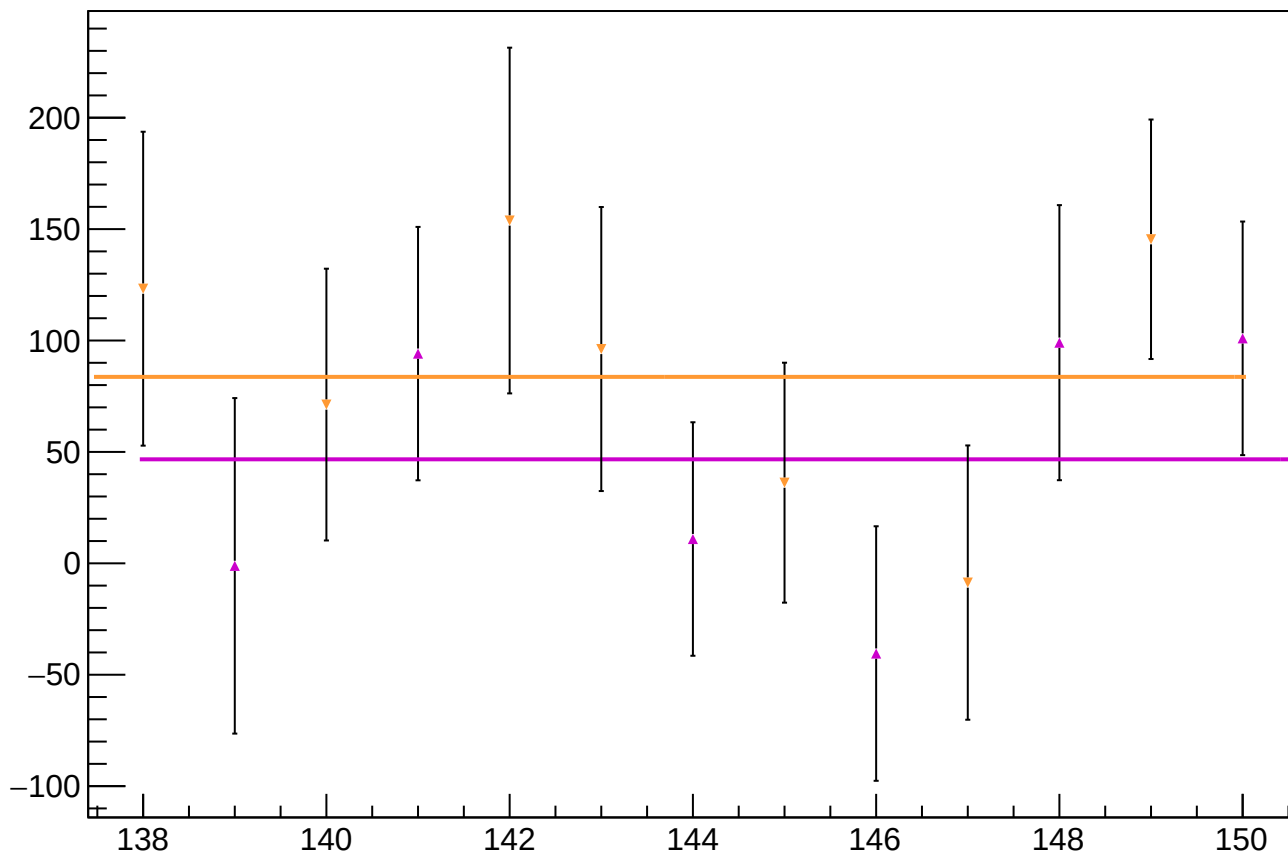
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 783.278+/-0.255  $\chi^2/\text{NDF}$ :292543.3/5

Out: 788.885+/-0.255  $\chi^2/\text{NDF}$ :290628.6/6

All: 786.082+/-0.180  $\chi^2/\text{NDF}$ : 583414.1/12

reg\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 83.683+/-23.327  $\chi^2/\text{NDF}$ : 5.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 46.679+/-23.684  $\chi^2/\text{NDF}$ : 5.7/5

Left: 65.462+/-16.620  $\chi^2/\text{NDF}$ : 12.5/12

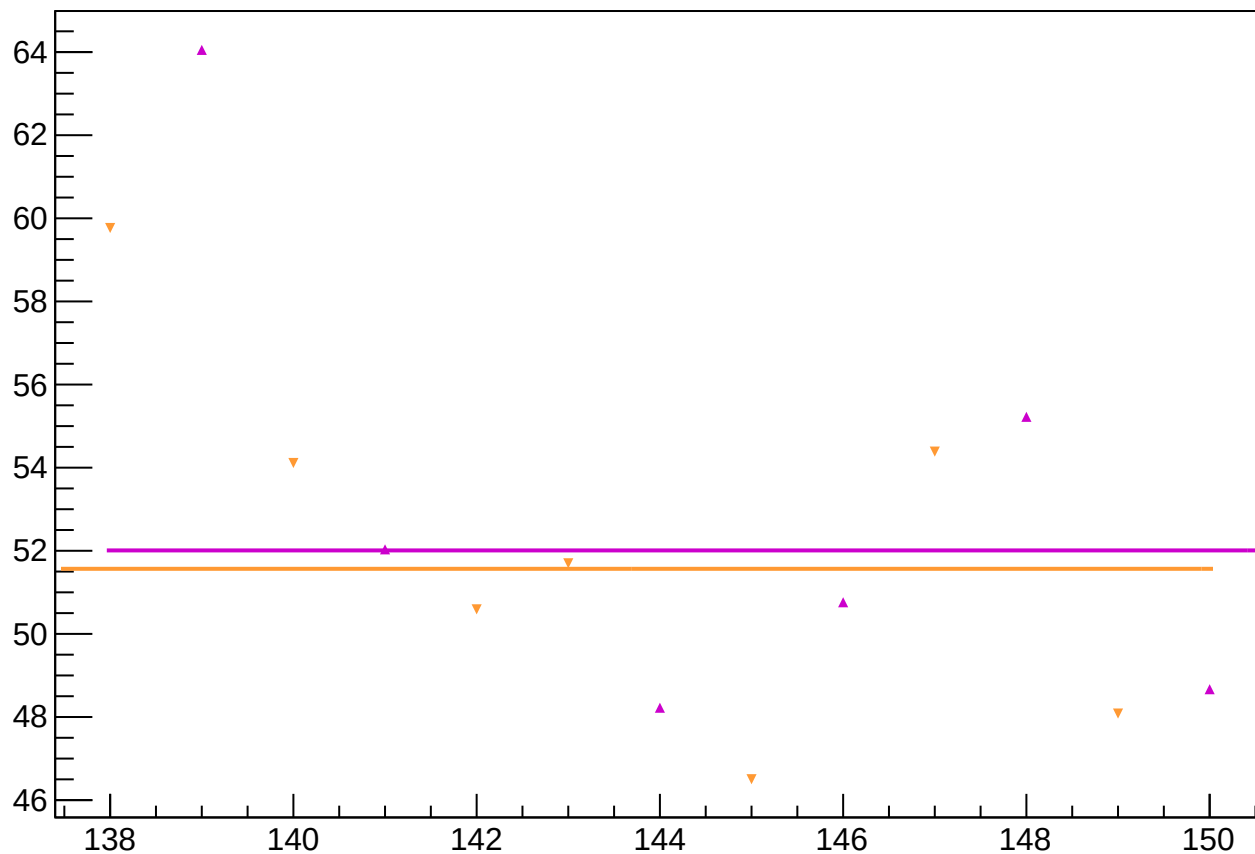
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 46.679+/-23.684  $\chi^2/\text{NDF}$ : 5.7/5

Out: 83.683+/-23.327  $\chi^2/\text{NDF}$ : 5.6/6

All: 65.462+/-16.620  $\chi^2/\text{NDF}$ : 12.5/12

reg\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 51.566+/-0.016  $\chi^2/\text{NDF}$ : 61201.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 52.009+/-0.017  $\chi^2/\text{NDF}$ : 76109.2/5

Left: 51.784+/-0.012  $\chi^2/\text{NDF}$ : 137665.6/12

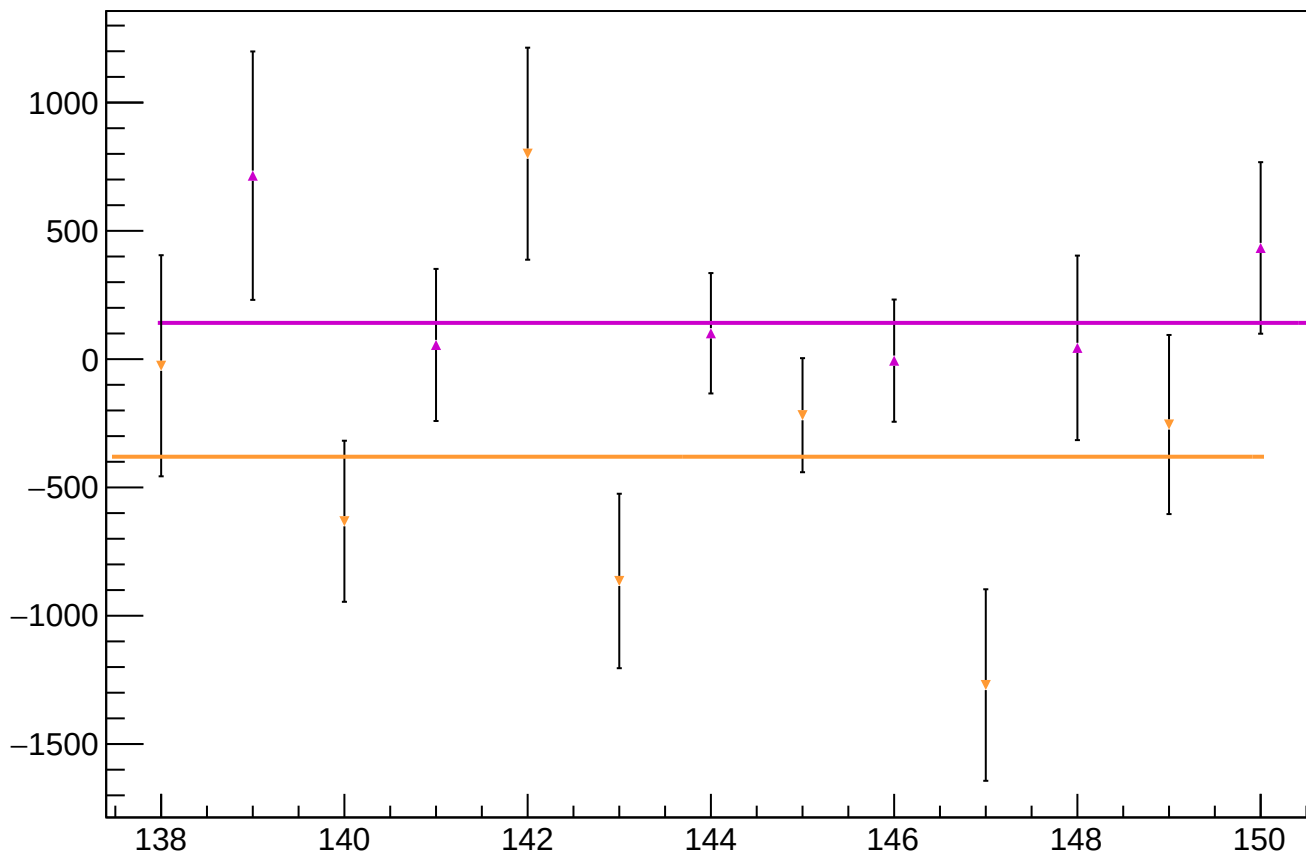
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 52.009+/-0.017  $\chi^2/\text{NDF}$ : 76109.2/5

Out: 51.566+/-0.016  $\chi^2/\text{NDF}$ : 61201.9/6

All: 51.784+/-0.012  $\chi^2/\text{NDF}$ : 137665.6/12

asym\_sam\_1526\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -380.269+/-123.399  $\chi^2/\text{NDF}$ :17.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 141.336+/-121.147  $\chi^2/\text{NDF}$ :2.7/5

Left: -114.663+/-86.449  $\chi^2/\text{NDF}$ : 29.7/12

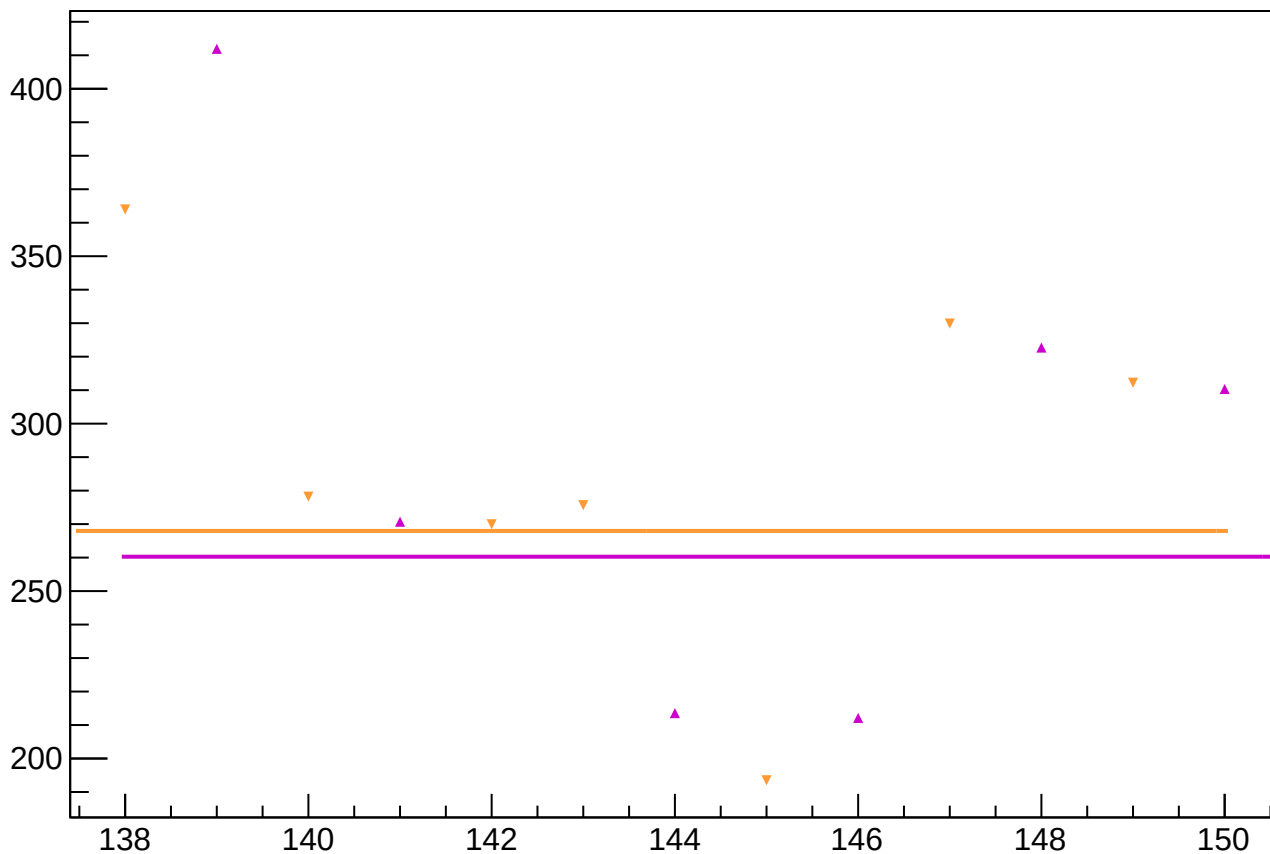
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 141.336+/-121.147  $\chi^2/\text{NDF}$ :2.7/5

Out: -380.269+/-123.399  $\chi^2/\text{NDF}$ :17.9/6

All: -114.663+/-86.449  $\chi^2/\text{NDF}$ : 29.7/12

asym\_sam\_1526\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 267.967+/-0.087  $\chi^2/\text{NDF}$ :414083.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 260.270+/-0.086  $\chi^2/\text{NDF}$ :465015.1/5

Left: 264.048+/-0.061  $\chi^2/\text{NDF}$ : 883061.8/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

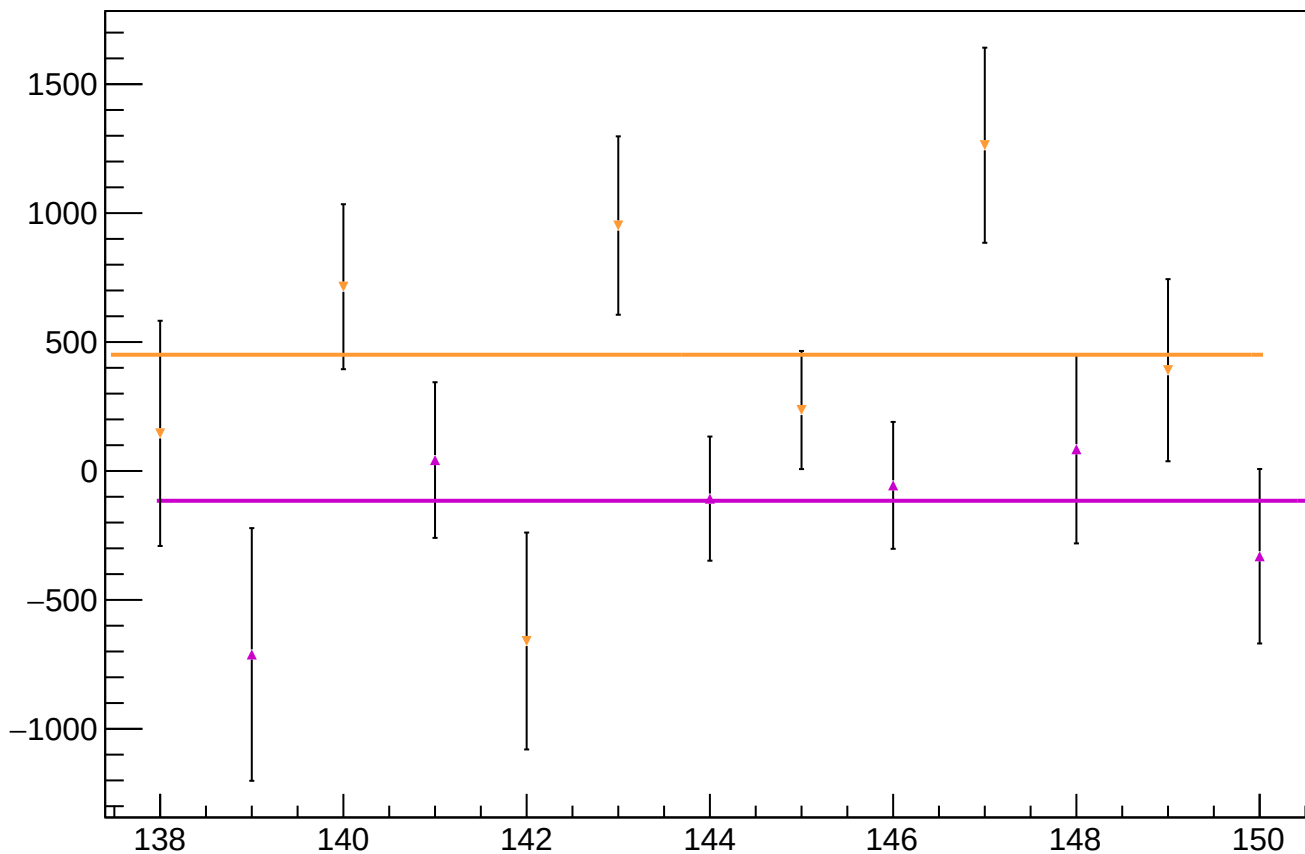
In: 260.270+/-0.086  $\chi^2/\text{NDF}$ :465015.1/5

Out: 267.967+/-0.087  $\chi^2/\text{NDF}$ :414083.7/6

All: 264.048+/-0.061  $\chi^2/\text{NDF}$ : 883061.8/12



asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 450.766+/-125.901  $\chi^2/\text{NDF}$ :15.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -115.513+/-123.894  $\chi^2/\text{NDF}$ :2.5/5

Left: 163.076+/-88.307  $\chi^2/\text{NDF}$ : 28.5/12

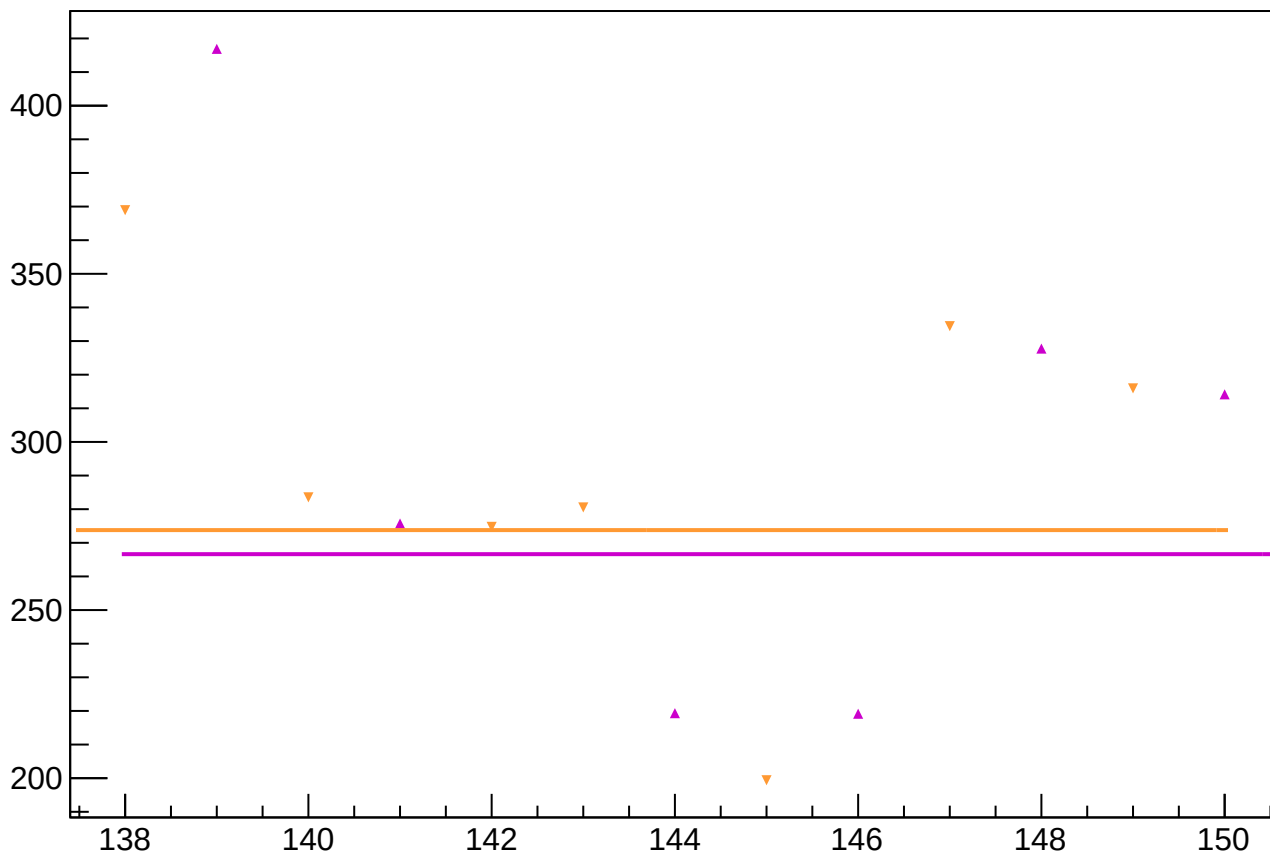
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -115.513+/-123.894  $\chi^2/\text{NDF}$ :2.5/5

Out: 450.766+/-125.901  $\chi^2/\text{NDF}$ :15.7/6

All: 163.076+/-88.307  $\chi^2/\text{NDF}$ : 28.5/12

# asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 273.780+/-0.089  $\chi^2/\text{NDF}$ :388361.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 266.625+/-0.088  $\chi^2/\text{NDF}$ :437095.6/5

Left: 270.145+/-0.062  $\chi^2/\text{NDF}$ : 828738.9/12

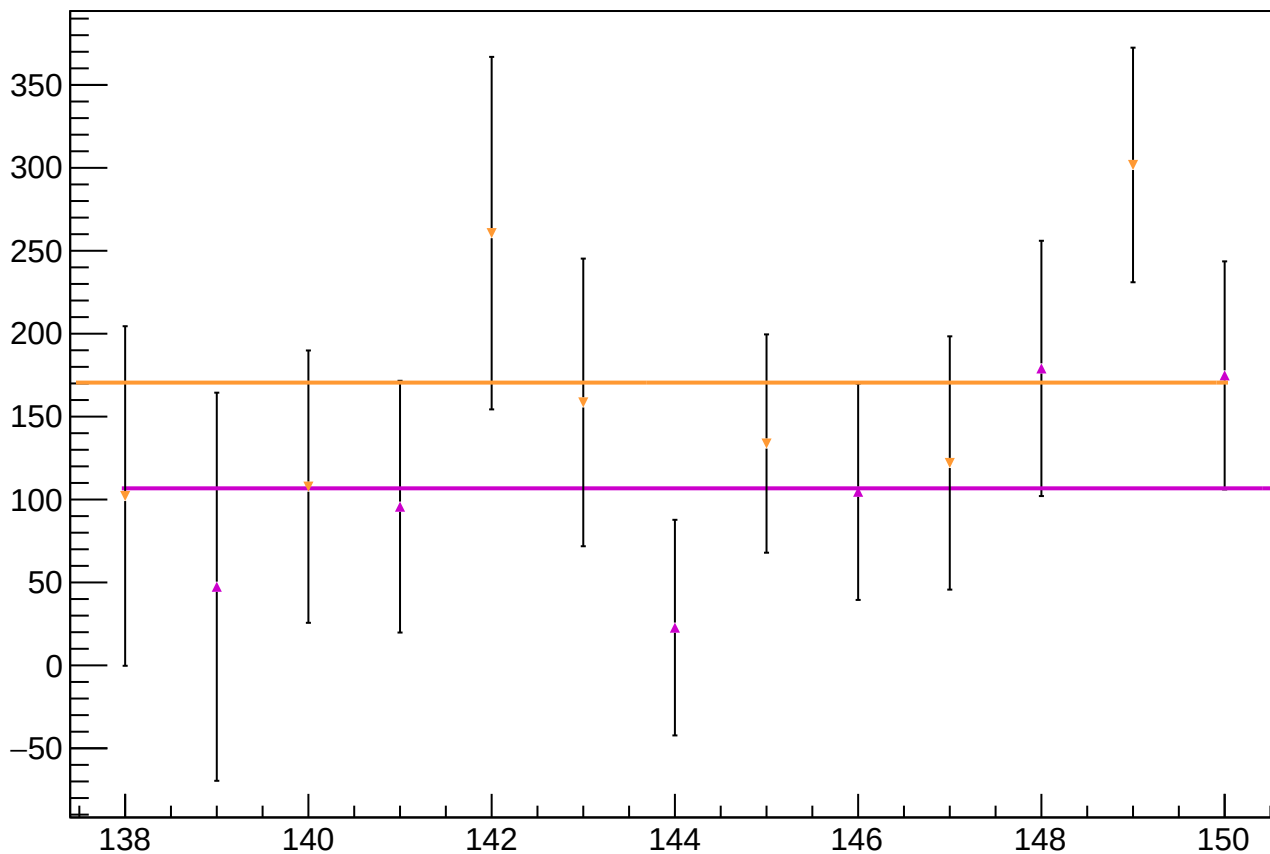
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 266.625+/-0.088  $\chi^2/\text{NDF}$ :437095.6/5

Out: 273.780+/-0.089  $\chi^2/\text{NDF}$ :388361.5/6

All: 270.145+/-0.062  $\chi^2/\text{NDF}$ : 828738.9/12

reg\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 170.512+/-30.608  $\chi^2/\text{NDF}$ : 5.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 106.756+/-30.171  $\chi^2/\text{NDF}$ : 3.8/5

Left: 138.175+/-21.487  $\chi^2/\text{NDF}$ : 11.9/12

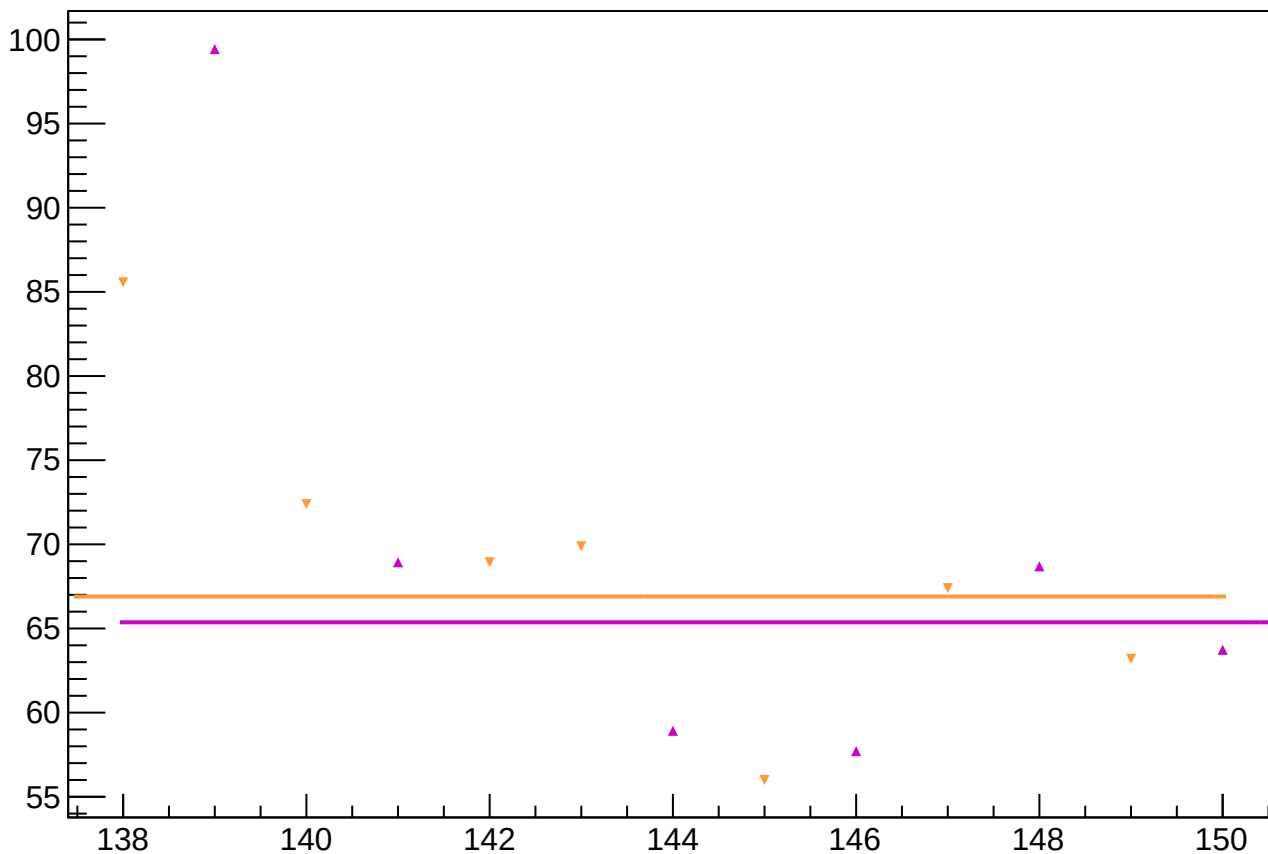
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 106.756+/-30.171  $\chi^2/\text{NDF}$ : 3.8/5

Out: 170.512+/-30.608  $\chi^2/\text{NDF}$ : 5.9/6

All: 138.175+/-21.487  $\chi^2/\text{NDF}$ : 11.9/12

reg\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 66.899+/-0.022  $\chi^2/\text{NDF}$ :138958.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 65.367+/-0.021  $\chi^2/\text{NDF}$ :225908.7/5

Left: 66.122+/-0.015  $\chi^2/\text{NDF}$ : 367409.7/12

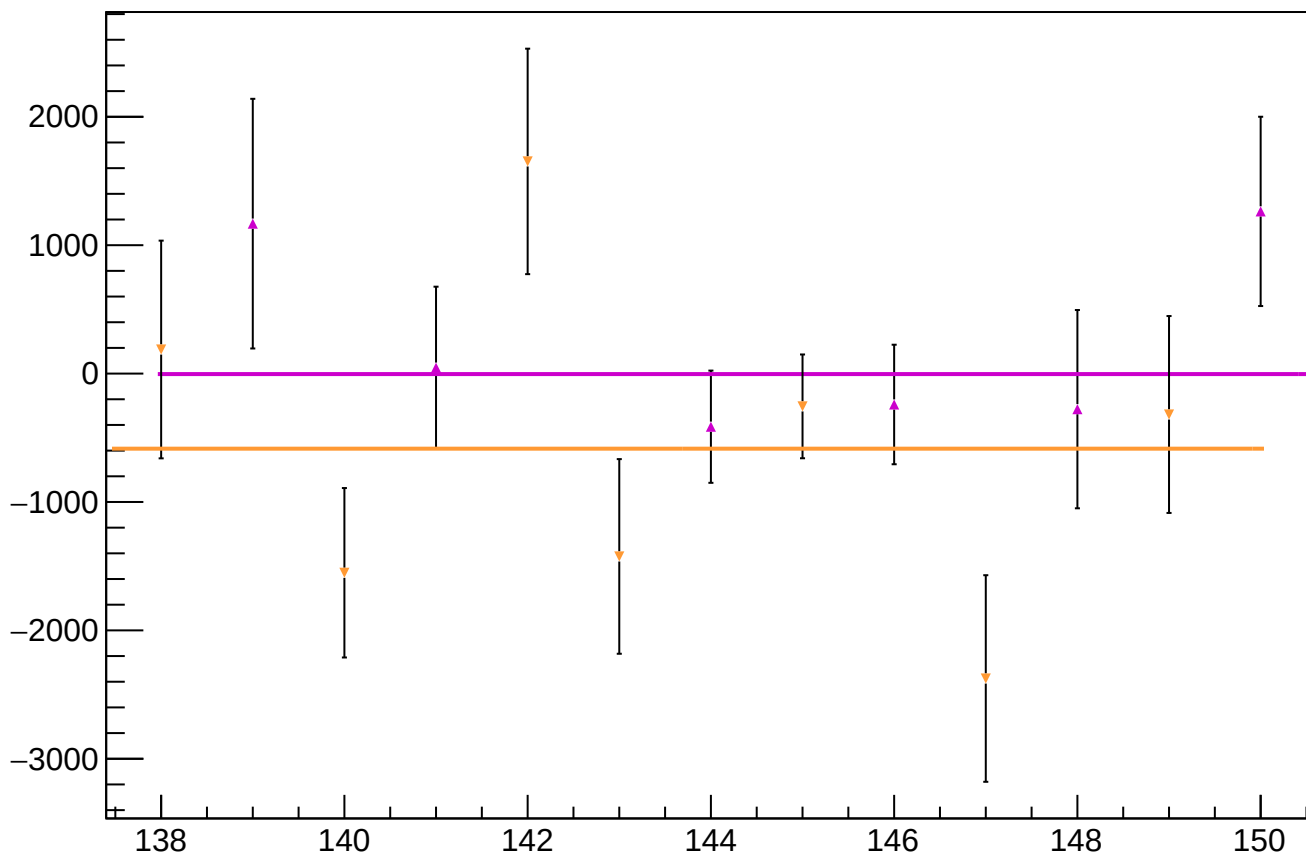
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 65.367+/-0.021  $\chi^2/\text{NDF}$ :225908.7/5

Out: 66.899+/-0.022  $\chi^2/\text{NDF}$ :138958.2/6

All: 66.122+/-0.015  $\chi^2/\text{NDF}$ : 367409.7/12

asym\_sam\_3726\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -584.800+/-249.287  $\chi^2/\text{NDF}$ :16.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -3.832+/-242.960  $\chi^2/\text{NDF}$ :5.7/5

Left: -286.850+/-173.993  $\chi^2/\text{NDF}$ : 24.9/12

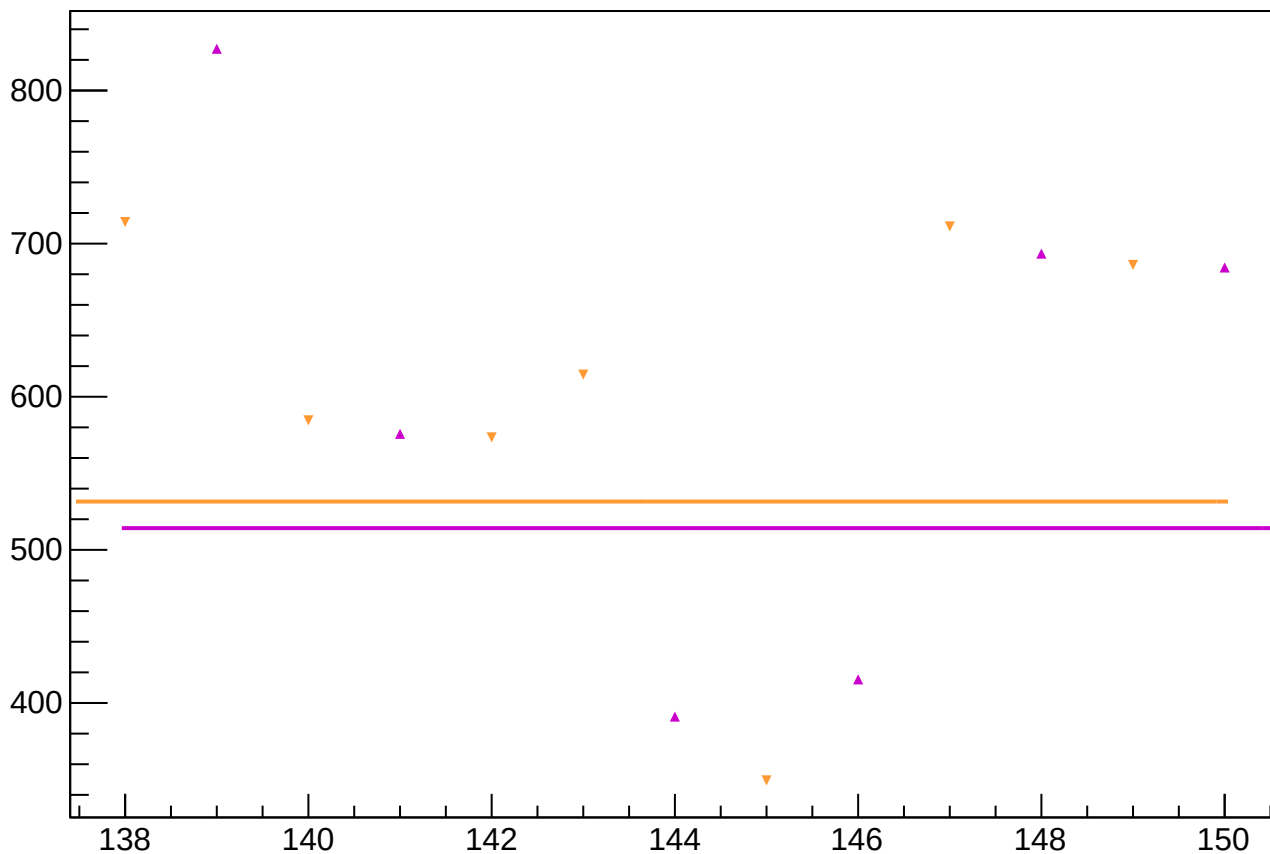
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3.832+/-242.960  $\chi^2/\text{NDF}$ :5.7/5

Out: -584.800+/-249.287  $\chi^2/\text{NDF}$ :16.4/6

All: -286.850+/-173.993  $\chi^2/\text{NDF}$ : 24.9/12

asym\_sam\_3726\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 531.572+/-0.176  $\chi^2/\text{NDF}$ : 721006.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 514.205+/-0.172  $\chi^2/\text{NDF}$ : 689526.1/5

Left: 522.666+/-0.123  $\chi^2/\text{NDF}$ : 1415510.6/12

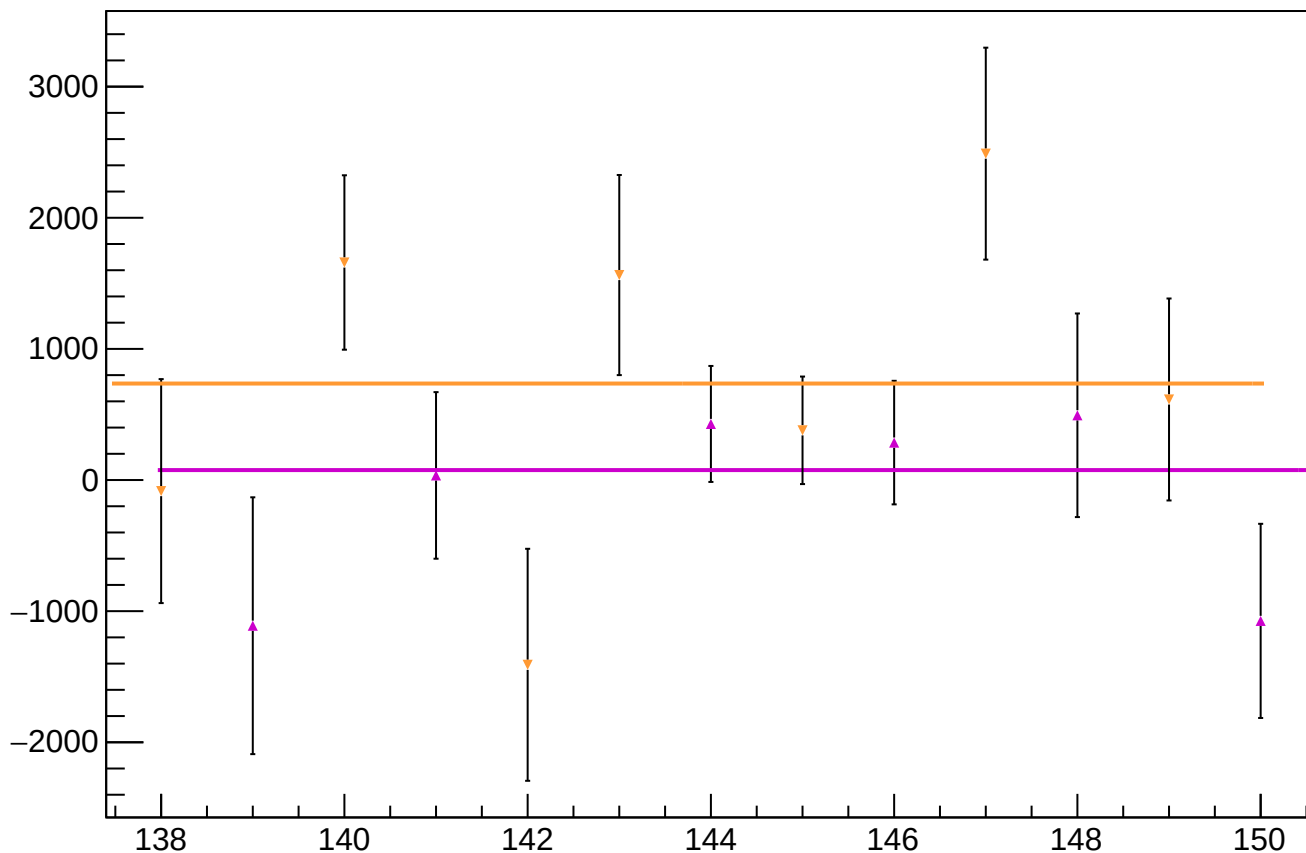
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 514.205+/-0.172  $\chi^2/\text{NDF}$ : 689526.1/5

Out: 531.572+/-0.176  $\chi^2/\text{NDF}$ : 721006.3/6

All: 522.666+/-0.123  $\chi^2/\text{NDF}$ : 1415510.6/12

asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 735.828+/-251.640  $\chi^2/\text{NDF}$ :15.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 75.847+/-245.276  $\chi^2/\text{NDF}$ :5.0/5

Left: 397.388+/-175.643  $\chi^2/\text{NDF}$ : 23.9/12

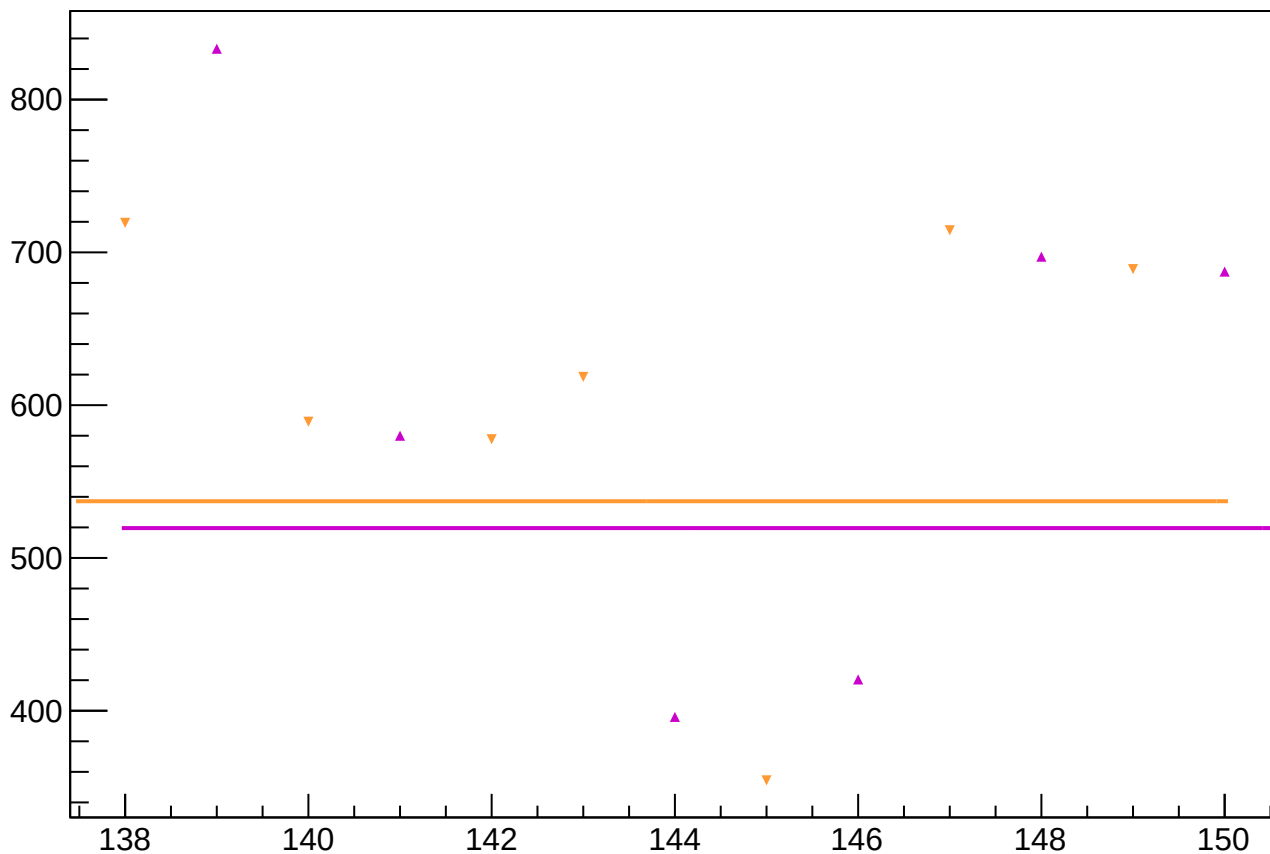
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 75.847+/-245.276  $\chi^2/\text{NDF}$ :5.0/5

Out: 735.828+/-251.640  $\chi^2/\text{NDF}$ :15.4/6

All: 397.388+/-175.643  $\chi^2/\text{NDF}$ : 23.9/12

asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 537.129+/-0.178  $\chi^2/\text{NDF}$ : 701343.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 519.545+/-0.173  $\chi^2/\text{NDF}$ : 675469.2/5

Left: 528.112+/-0.124  $\chi^2/\text{NDF}$ : 1381820.2/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

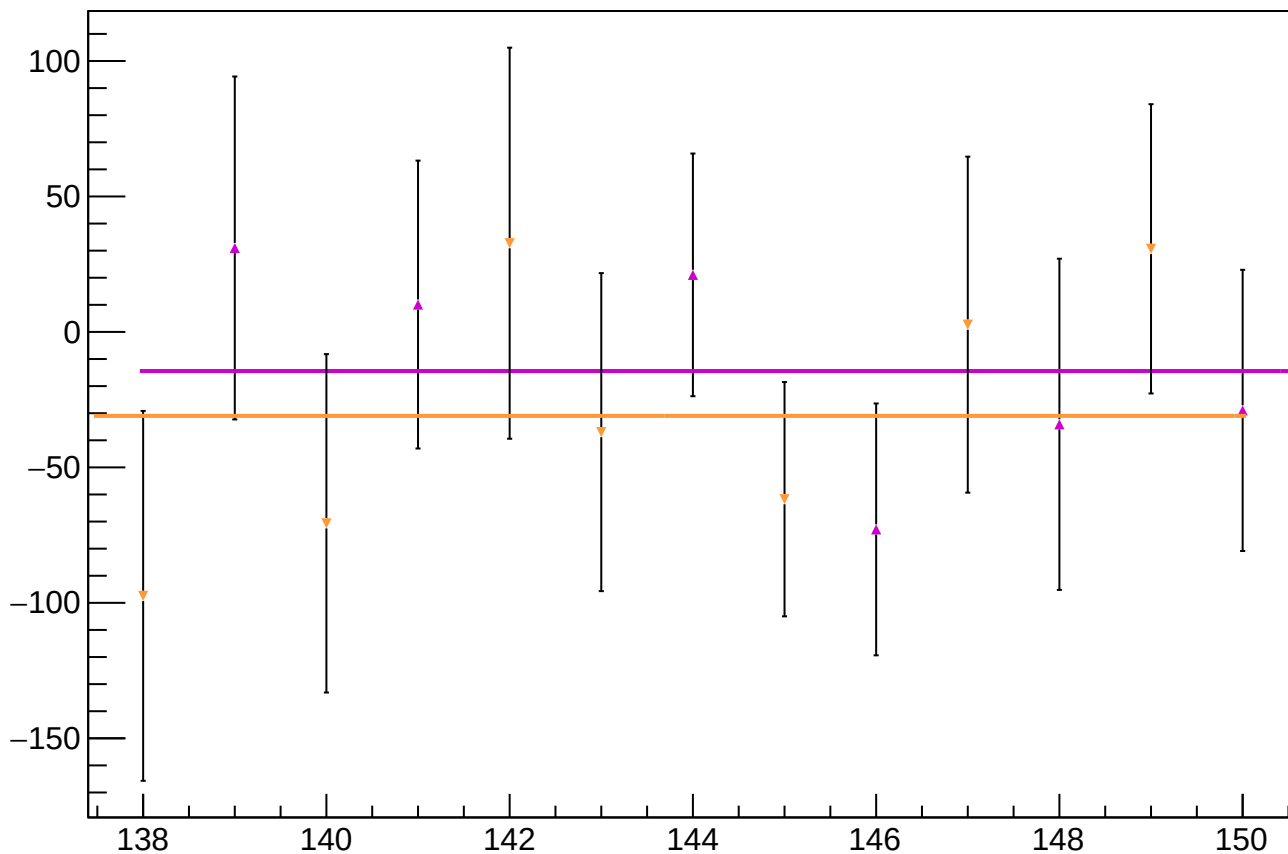
In: 519.545+/-0.173  $\chi^2/\text{NDF}$ : 675469.2/5

Out: 537.129+/-0.178  $\chi^2/\text{NDF}$ : 701343.1/6

All: 528.112+/-0.124  $\chi^2/\text{NDF}$ : 1381820.2/12



reg\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -30.985+/-21.827  $\chi^2/\text{NDF}$ : 4.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -14.431+/-21.300  $\chi^2/\text{NDF}$ : 3.1/5

Left: -22.506+/-15.244  $\chi^2/\text{NDF}$ : 7.7/12

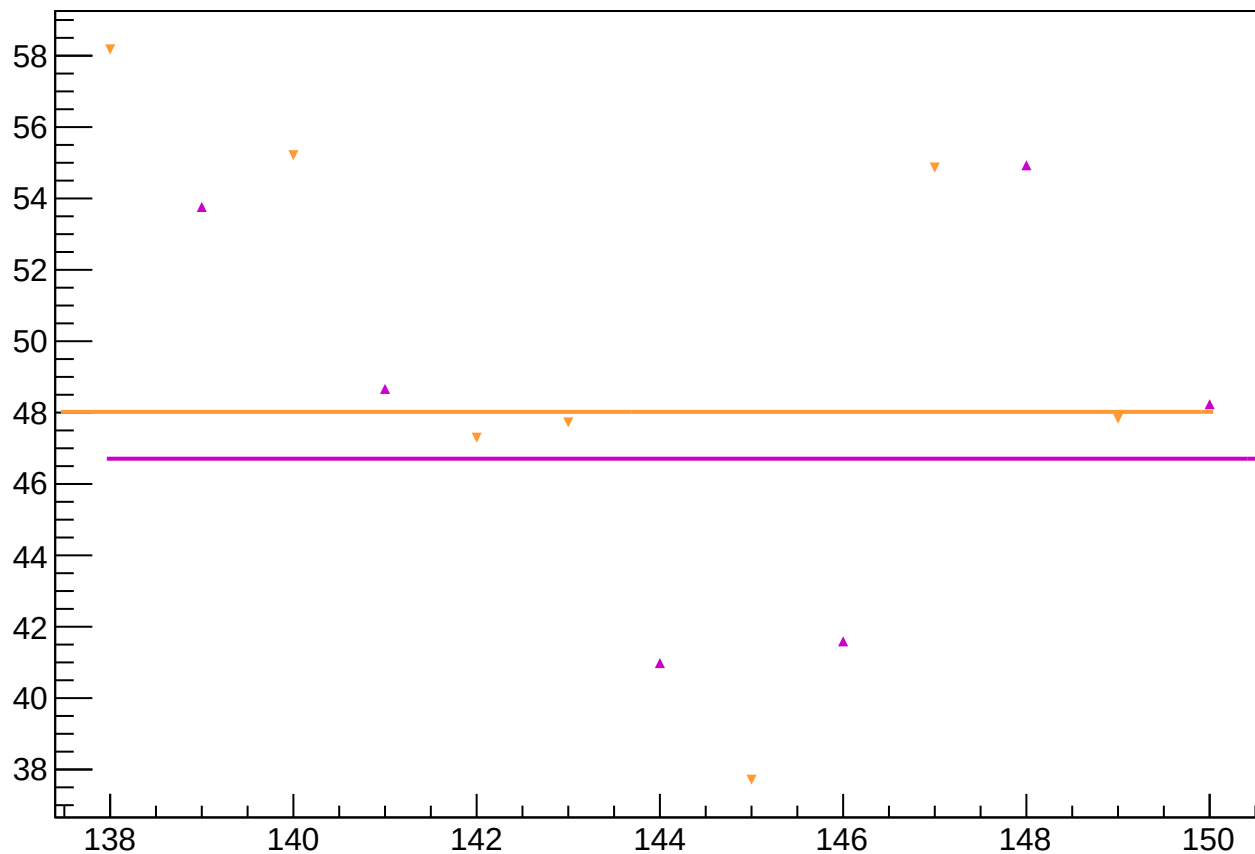
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -14.431+/-21.300  $\chi^2/\text{NDF}$ : 3.1/5

Out: -30.985+/-21.827  $\chi^2/\text{NDF}$ : 4.3/6

All: -22.506+/-15.244  $\chi^2/\text{NDF}$ : 7.7/12

reg\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 48.021+/-0.015  $\chi^2/\text{NDF}$ :209081.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 46.708+/-0.015  $\chi^2/\text{NDF}$ :122396.9/5

Left: 47.348+/-0.011  $\chi^2/\text{NDF}$ : 335183.3/12

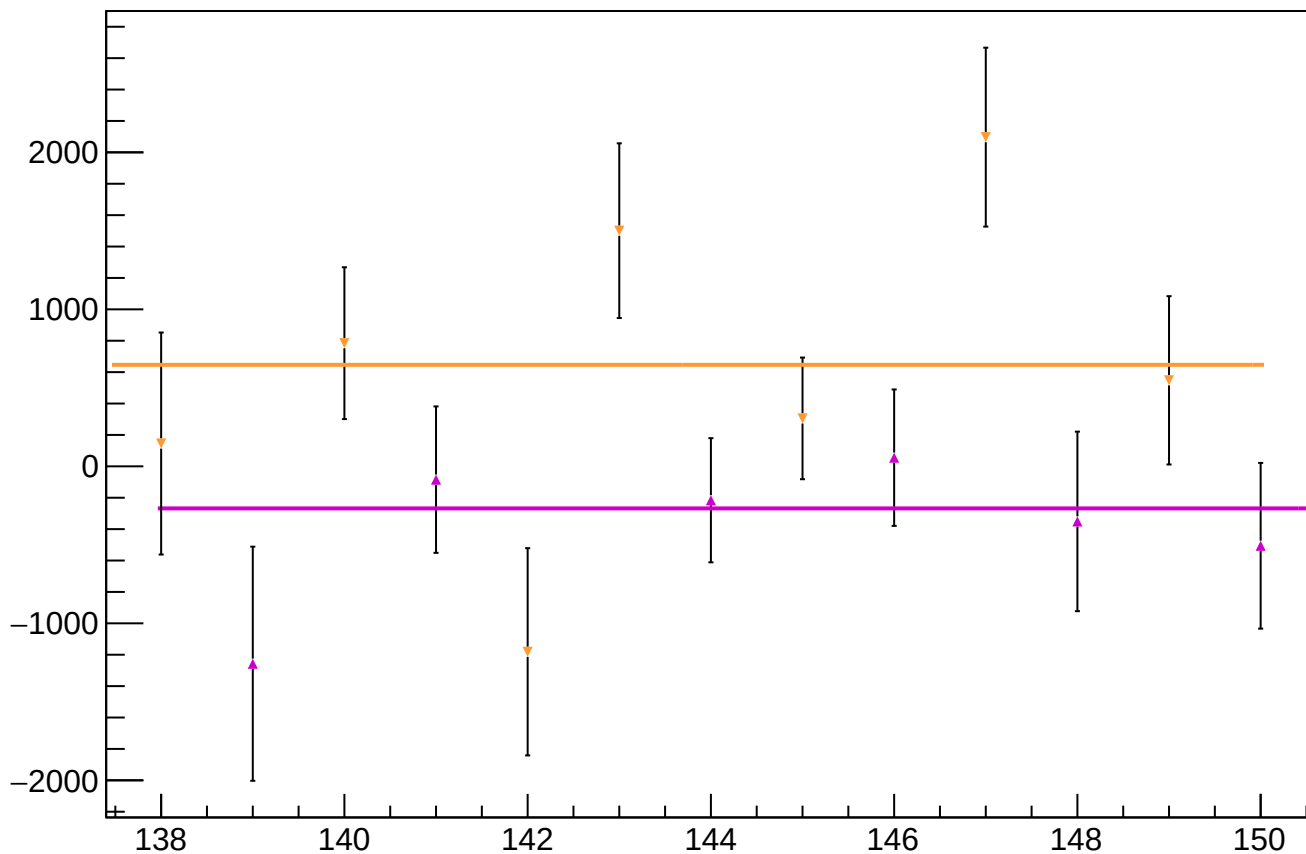
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 46.708+/-0.015  $\chi^2/\text{NDF}$ :122396.9/5

Out: 48.021+/-0.015  $\chi^2/\text{NDF}$ :209081.8/6

All: 47.348+/-0.011  $\chi^2/\text{NDF}$ : 335183.3/12

asym\_sam\_15\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 646.637+/-199.911  $\chi^2/\text{NDF}$ :17.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -268.008+/-201.081  $\chi^2/\text{NDF}$ :2.7/5

Left: 191.983+/-141.770  $\chi^2/\text{NDF}$ : 31.0/12

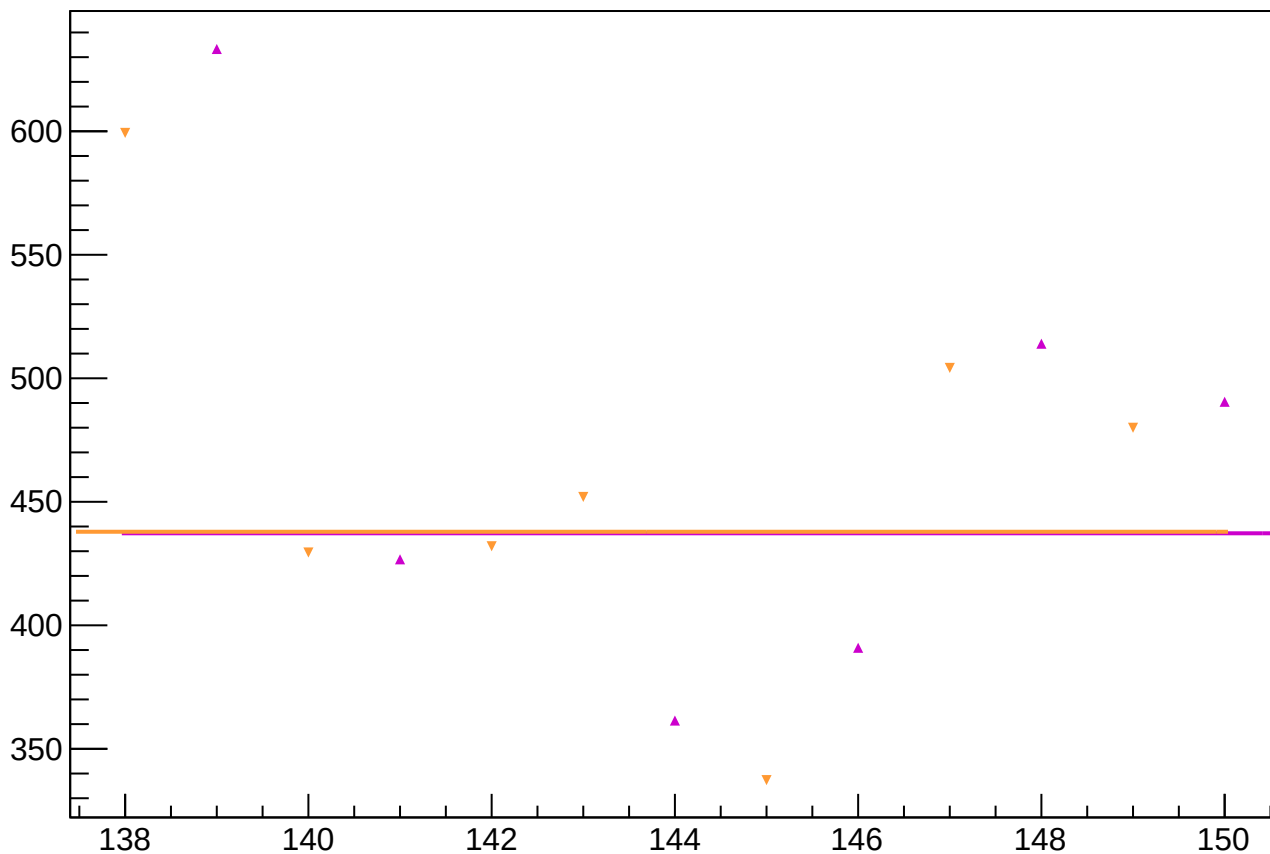
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -268.008+/-201.081  $\chi^2/\text{NDF}$ :2.7/5

Out: 646.637+/-199.911  $\chi^2/\text{NDF}$ :17.9/6

All: 191.983+/-141.770  $\chi^2/\text{NDF}$ : 31.0/12

asym\_sam\_15\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 437.880+/-0.141  $\chi^2/\text{NDF}$ :280424.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 437.254+/-0.142  $\chi^2/\text{NDF}$ :291890.3/5

Left: 437.569+/-0.100  $\chi^2/\text{NDF}$ : 572324.4/12

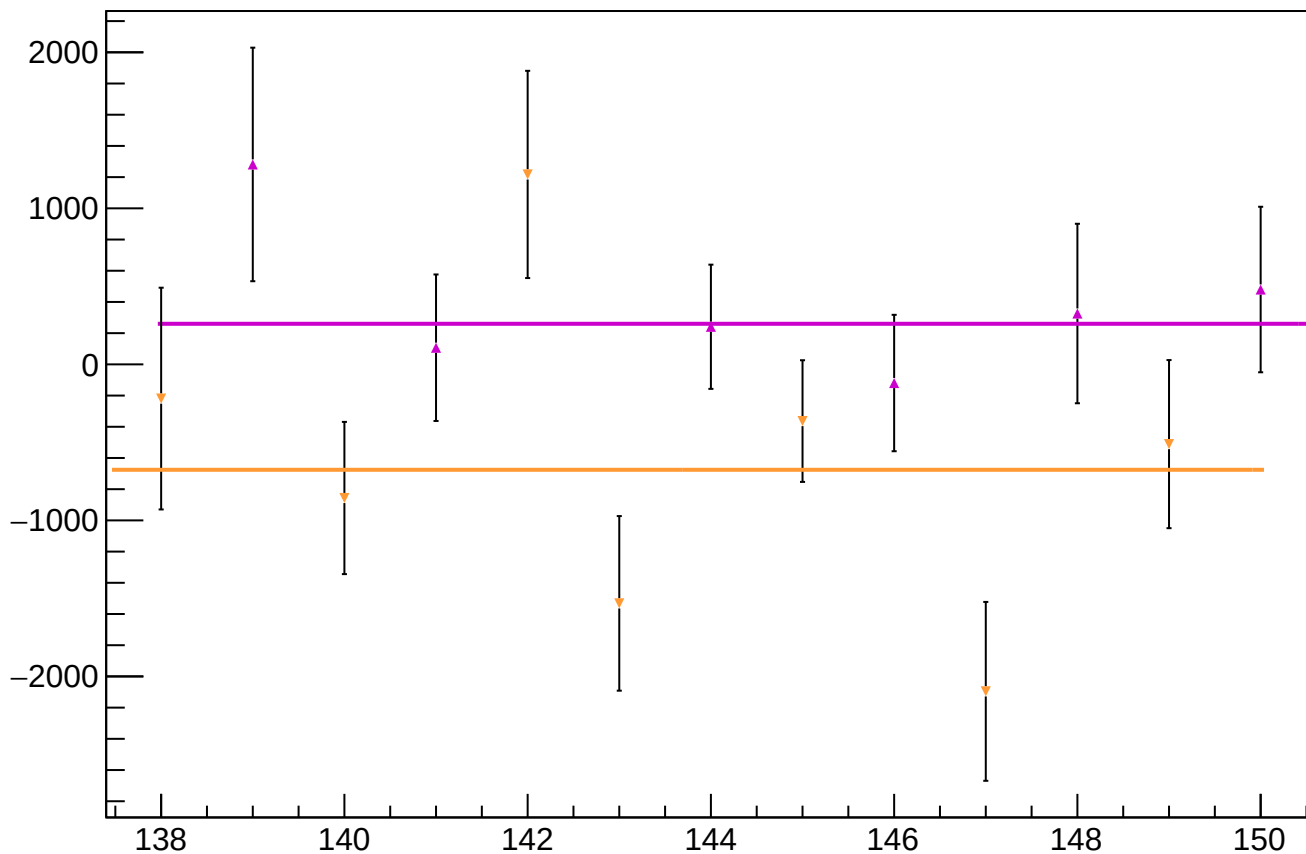
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 437.254+/-0.142  $\chi^2/\text{NDF}$ :291890.3/5

Out: 437.880+/-0.141  $\chi^2/\text{NDF}$ :280424.4/6

All: 437.569+/-0.100  $\chi^2/\text{NDF}$ : 572324.4/12

asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -675.660+/-201.163  $\chi^2/\text{NDF}$ :17.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 260.005+/-202.267  $\chi^2/\text{NDF}$ :2.9/5

Left: -210.389+/-142.632  $\chi^2/\text{NDF}$ : 31.6/12

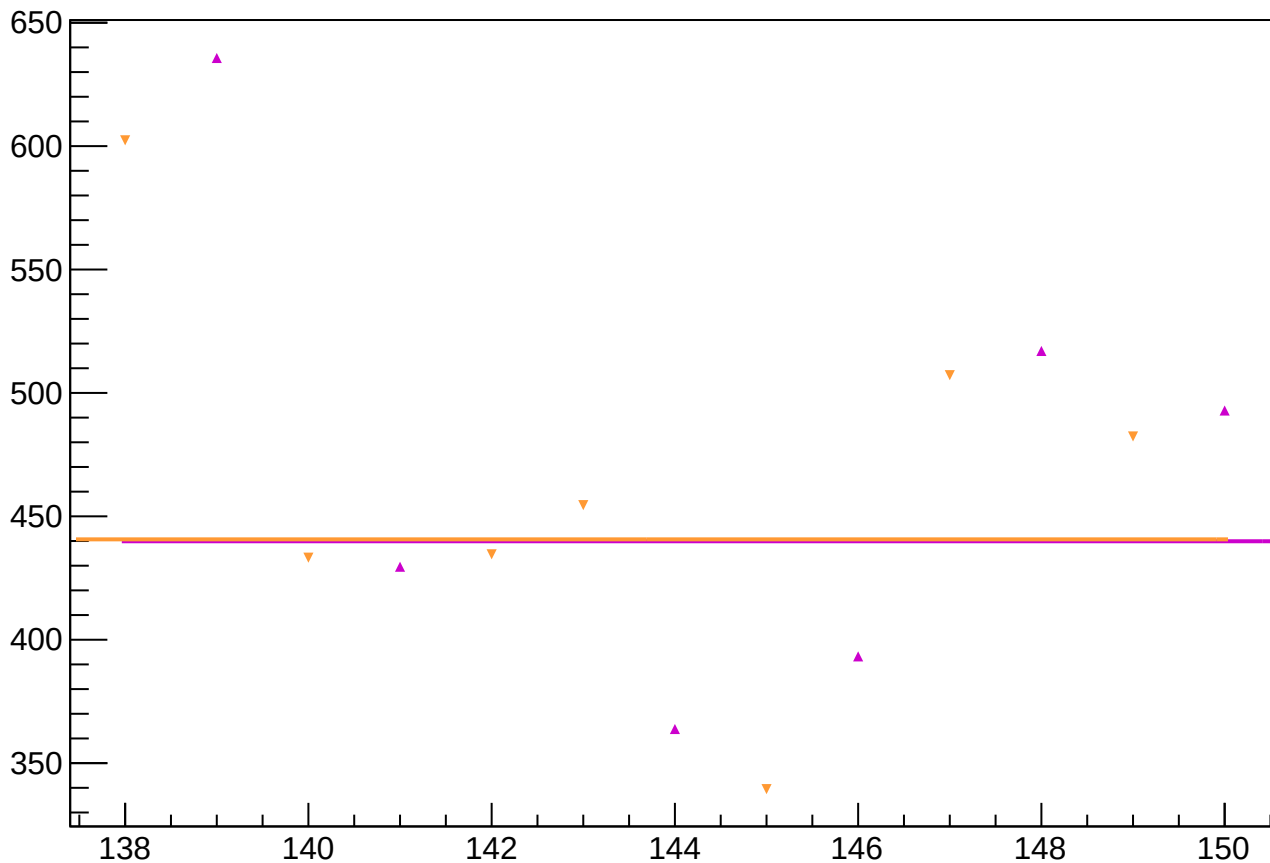
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 260.005+/-202.267  $\chi^2/\text{NDF}$ :2.9/5

Out: -675.660+/-201.163  $\chi^2/\text{NDF}$ :17.9/6

All: -210.389+/-142.632  $\chi^2/\text{NDF}$ : 31.6/12

asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 440.671+/-0.142  $\chi^2/\text{NDF}$ : 279030.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 439.900+/-0.143  $\chi^2/\text{NDF}$ : 289567.3/5

Left: 440.287+/-0.101  $\chi^2/\text{NDF}$ : 568611.9/12

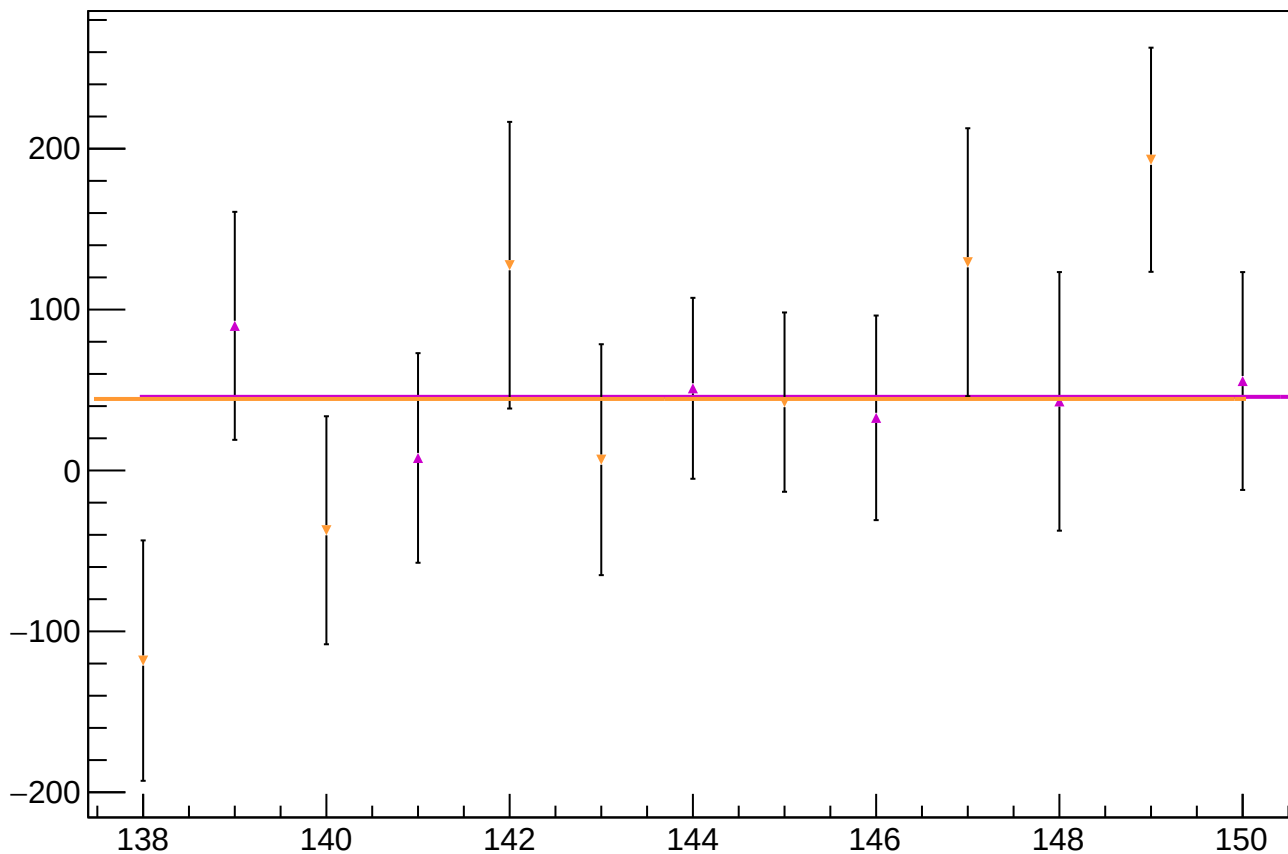
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 439.900+/-0.143  $\chi^2/\text{NDF}$ : 289567.3/5

Out: 440.671+/-0.142  $\chi^2/\text{NDF}$ : 279030.0/6

All: 440.287+/-0.101  $\chi^2/\text{NDF}$ : 568611.9/12

reg\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 44.456+/-27.009  $\chi^2/\text{NDF}$ :12.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 45.765+/-27.002  $\chi^2/\text{NDF}$ :0.8/5

Left: 45.111+/-19.096  $\chi^2/\text{NDF}$ : 13.6/12

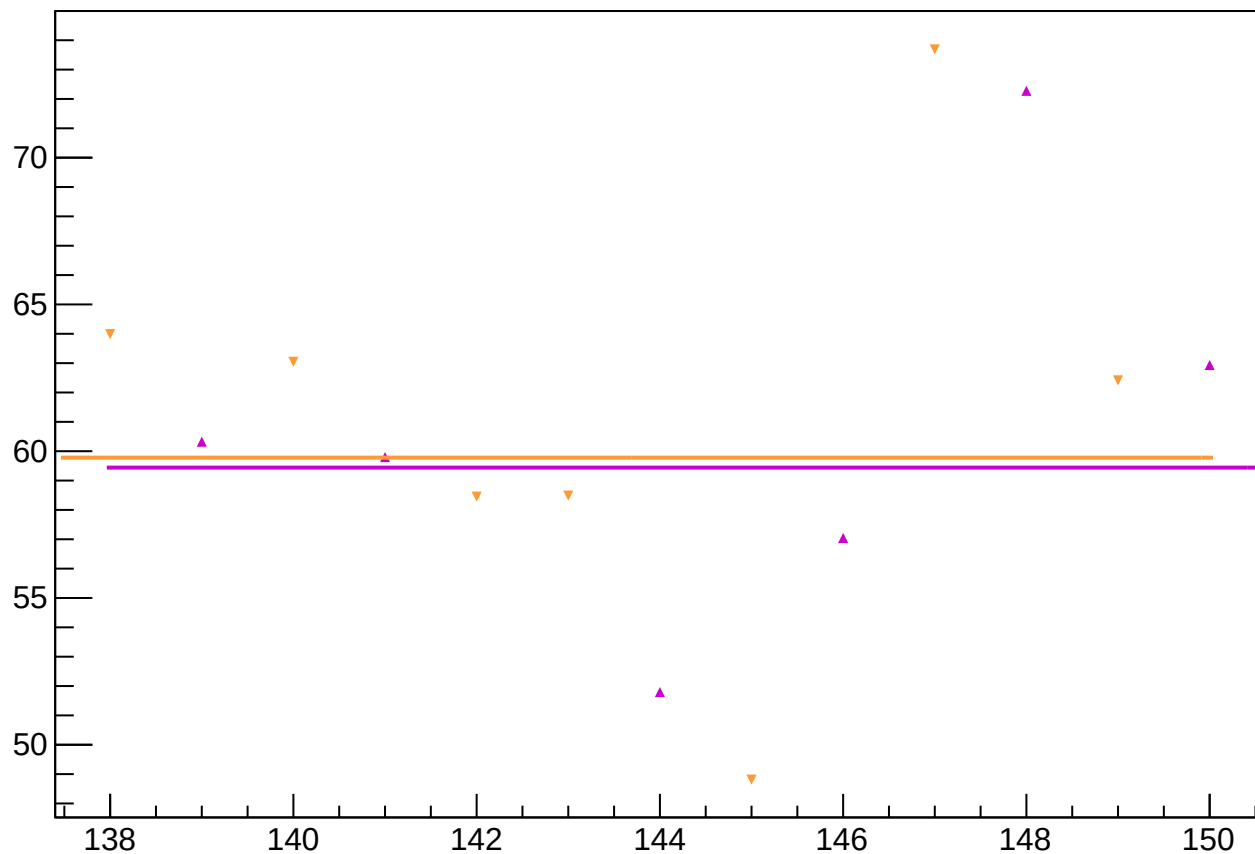
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 45.765+/-27.002  $\chi^2/\text{NDF}$ :0.8/5

Out: 44.456+/-27.009  $\chi^2/\text{NDF}$ :12.8/6

All: 45.111+/-19.096  $\chi^2/\text{NDF}$ : 13.6/12

reg\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 59.781+/-0.019  $\chi^2/\text{NDF}$ :147790.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 59.441+/-0.019  $\chi^2/\text{NDF}$ :96547.5/5

Left: 59.611+/-0.014  $\chi^2/\text{NDF}$ : 244495.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

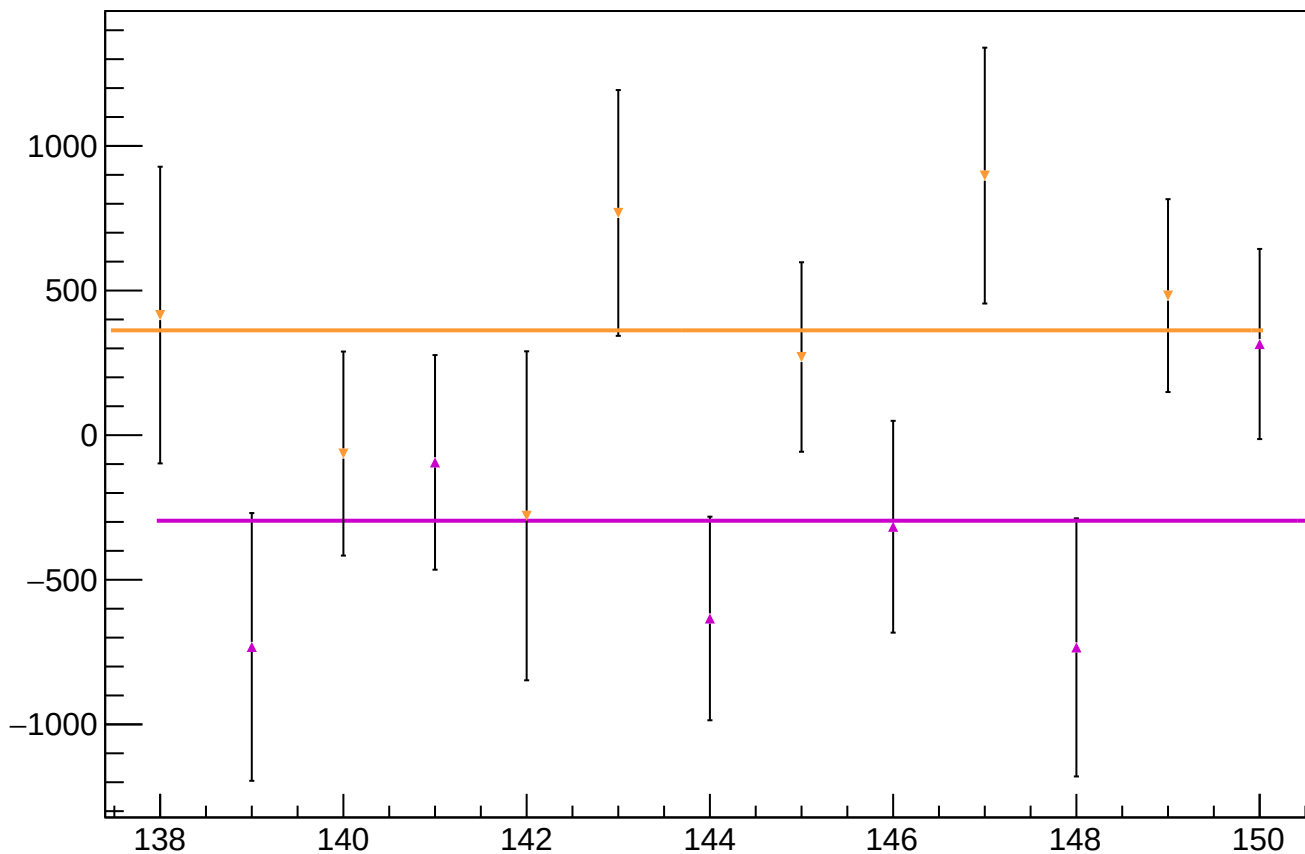
In: 59.441+/-0.019  $\chi^2/\text{NDF}$ :96547.5/5

Out: 59.781+/-0.019  $\chi^2/\text{NDF}$ :147790.3/6

All: 59.611+/-0.014  $\chi^2/\text{NDF}$ : 244495.9/12



asym\_sam\_37\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 362.380+/-150.940  $\chi^2/\text{NDF}$ : 5.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -295.844+/-154.786  $\chi^2/\text{NDF}$ : 6.5/5

Left: 41.548+/-108.065  $\chi^2/\text{NDF}$ : 21.1/12

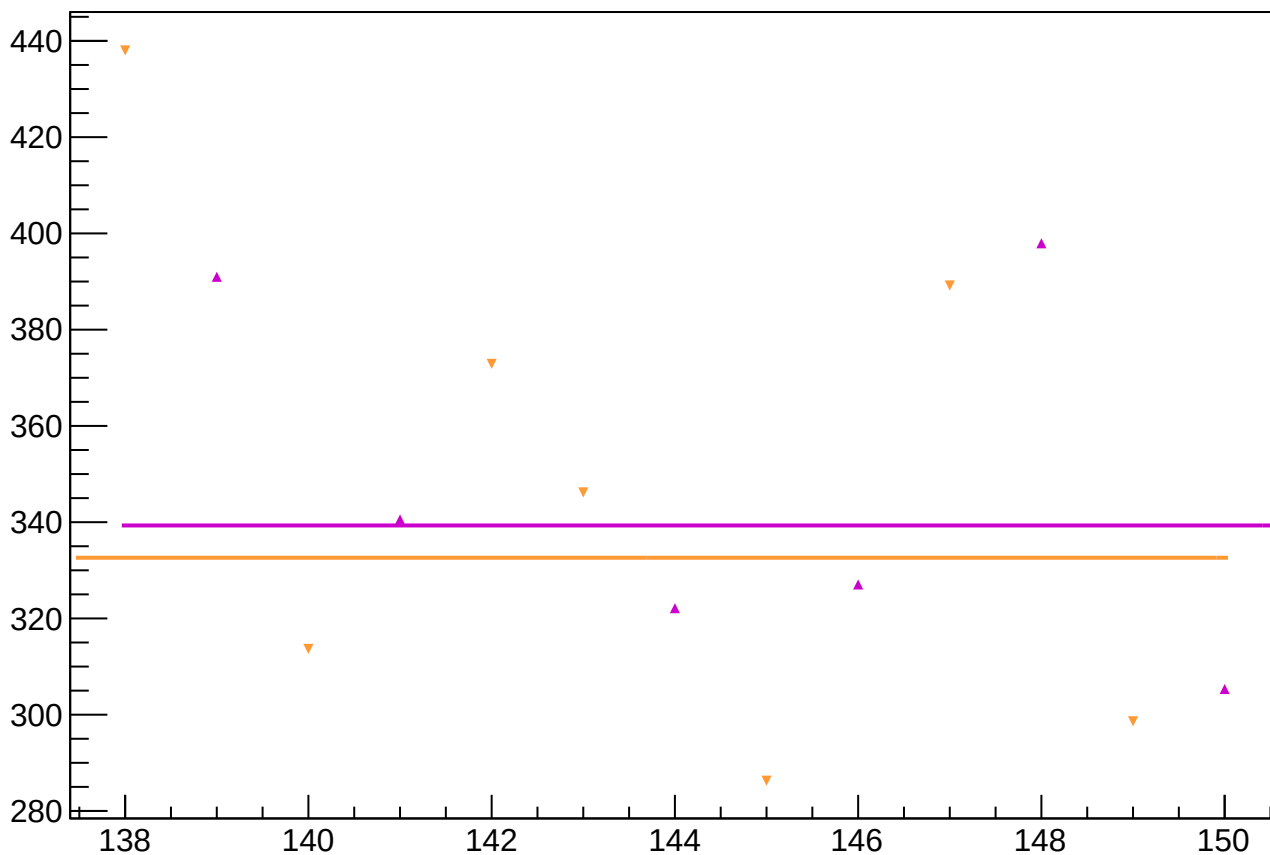
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -295.844+/-154.786  $\chi^2/\text{NDF}$ : 6.5/5

Out: 362.380+/-150.940  $\chi^2/\text{NDF}$ : 5.3/6

All: 41.548+/-108.065  $\chi^2/\text{NDF}$ : 21.1/12

asym\_sam\_37\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 332.614+/-0.107  $\chi^2/\text{NDF}$ :195808.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 339.321+/-0.109  $\chi^2/\text{NDF}$ :87857.5/5

Left: 335.883+/-0.076  $\chi^2/\text{NDF}$ : 285590.8/12

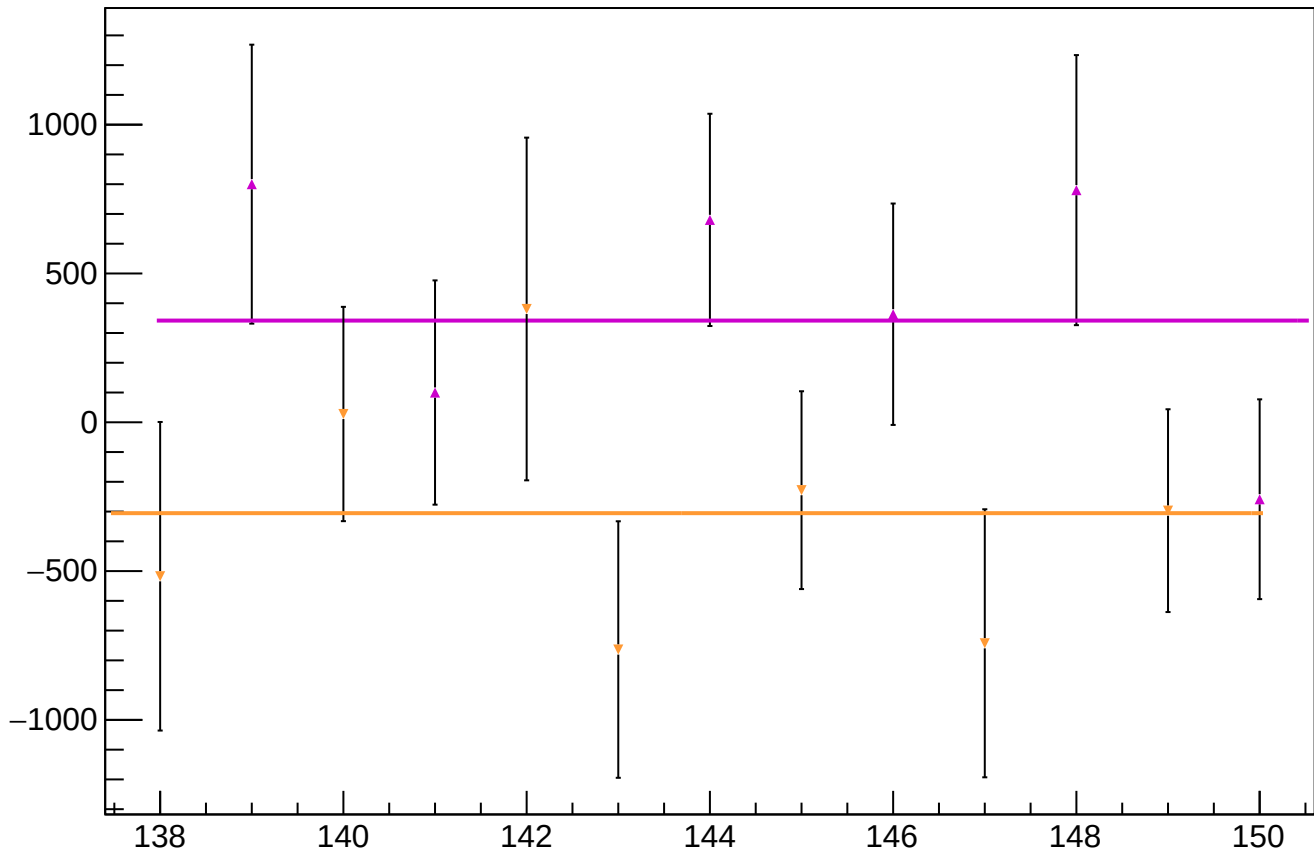
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 339.321+/-0.109  $\chi^2/\text{NDF}$ :87857.5/5

Out: 332.614+/-0.107  $\chi^2/\text{NDF}$ :195808.6/6

All: 335.883+/-0.076  $\chi^2/\text{NDF}$ : 285590.8/12

asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -305.356+/-153.508  $\chi^2/\text{NDF}$ : 4.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 341.752+/-157.283  $\chi^2/\text{NDF}$ : 6.4/5

Left: 10.338+/-109.857  $\chi^2/\text{NDF}$ : 19.6/12

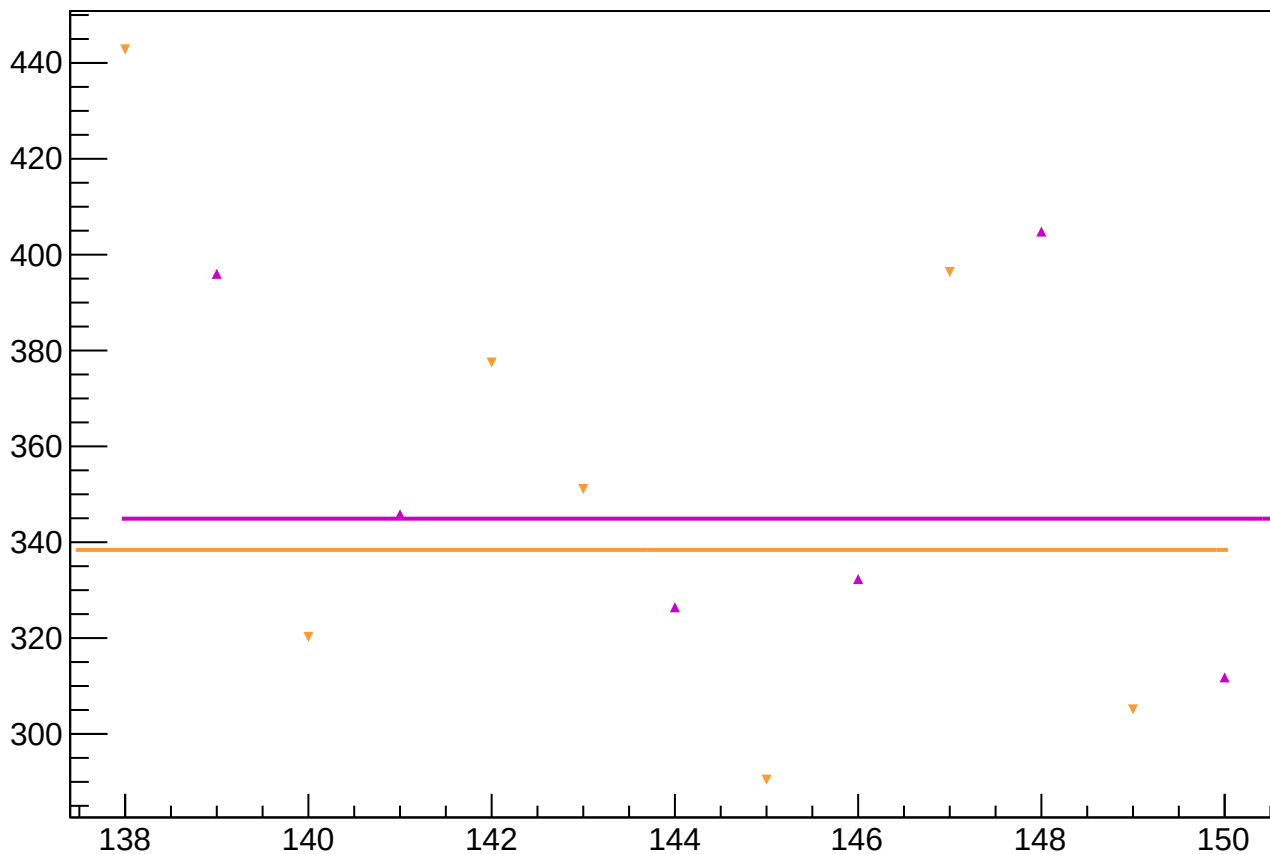
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 341.752+/-157.283  $\chi^2/\text{NDF}$ : 6.4/5

Out: -305.356+/-153.508  $\chi^2/\text{NDF}$ : 4.6/6

All: 10.338+/-109.857  $\chi^2/\text{NDF}$ : 19.6/12

asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 338.400+/-0.109  $\chi^2/\text{NDF}$ :191057.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 344.915+/-0.111  $\chi^2/\text{NDF}$ :85791.3/5

Left: 341.578+/-0.078  $\chi^2/\text{NDF}$ : 278605.9/12

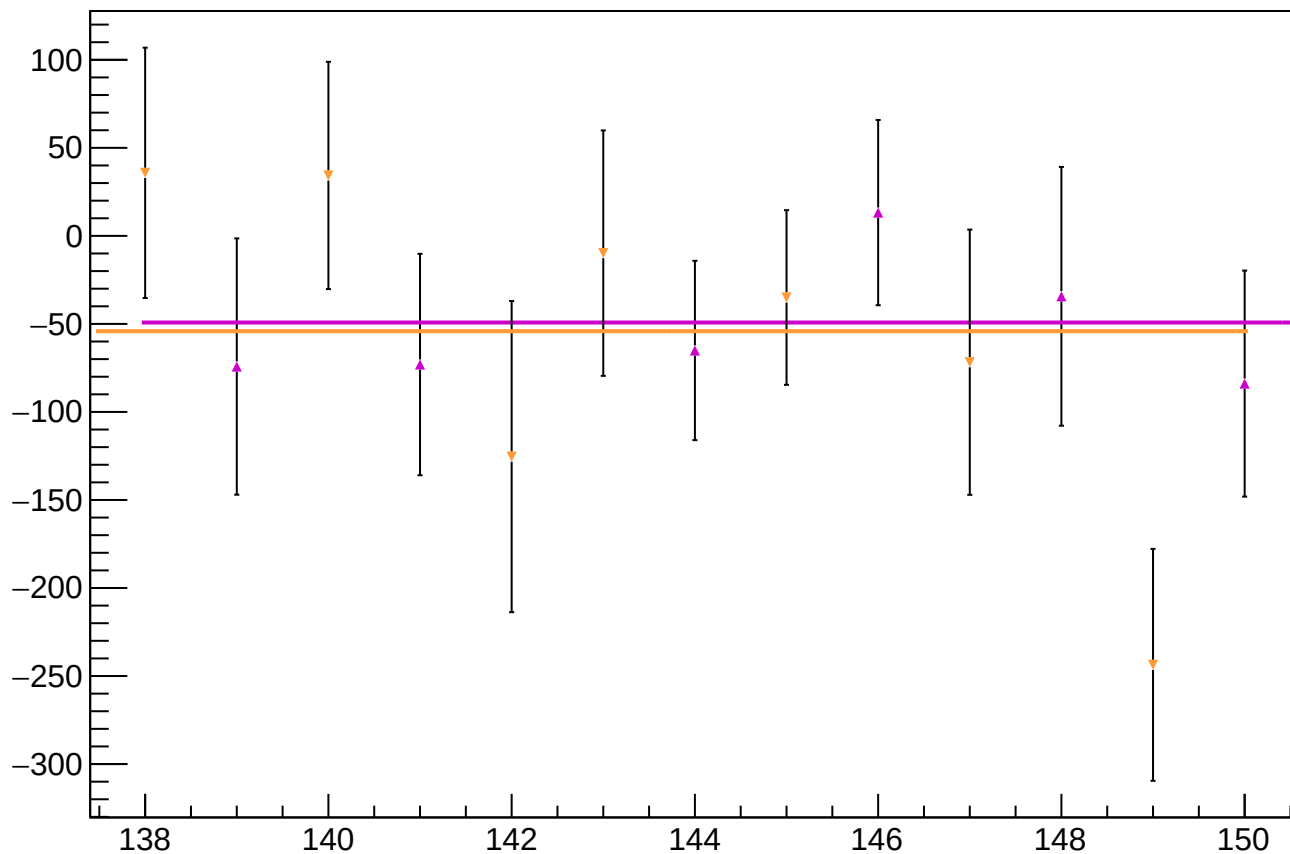
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 344.915+/-0.111  $\chi^2/\text{NDF}$ :85791.3/5

Out: 338.400+/-0.109  $\chi^2/\text{NDF}$ :191057.0/6

All: 341.578+/-0.078  $\chi^2/\text{NDF}$ : 278605.9/12

reg\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -54.129+/-25.119  $\chi^2/\text{NDF}$ :13.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -49.209+/-24.875  $\chi^2/\text{NDF}$ :2.1/5

Left: -51.645+/-17.675  $\chi^2/\text{NDF}$ : 15.1/12

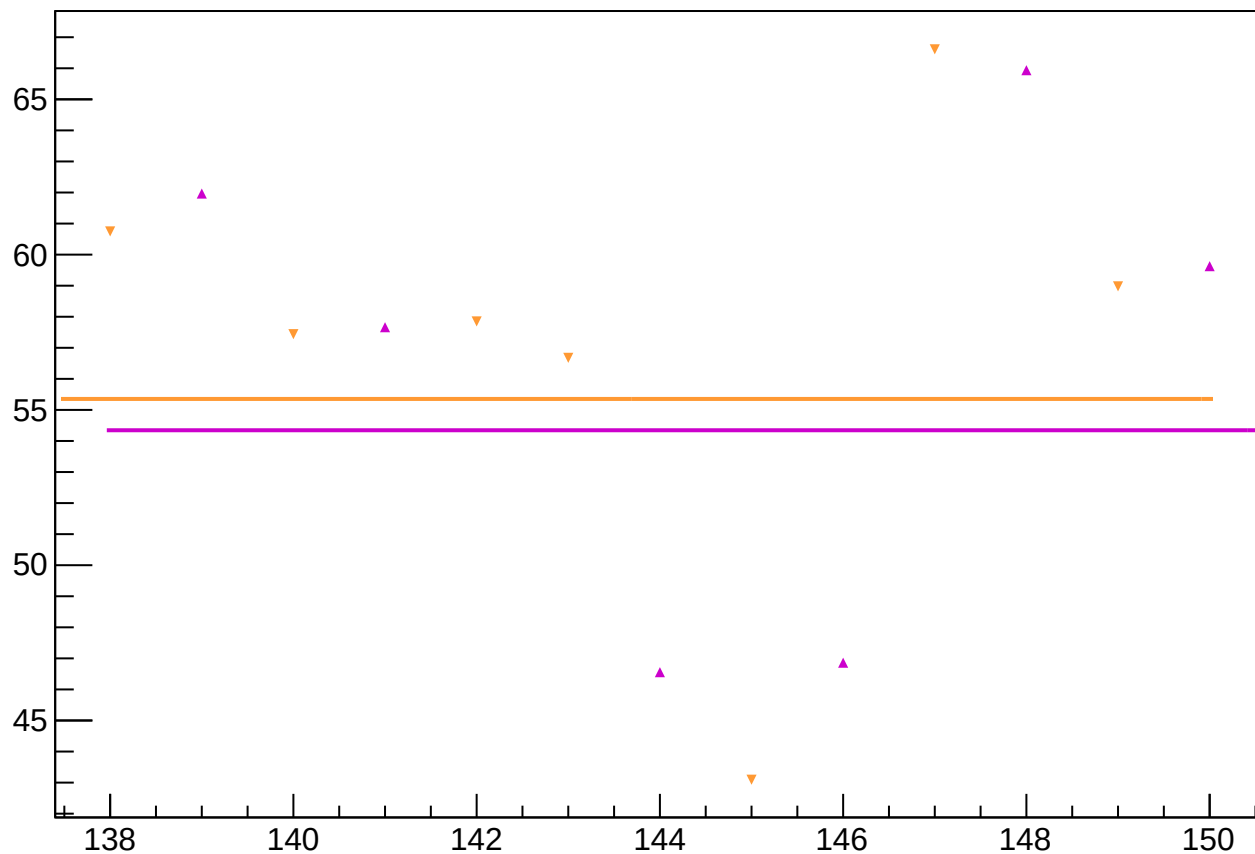
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -49.209+/-24.875  $\chi^2/\text{NDF}$ :2.1/5

Out: -54.129+/-25.119  $\chi^2/\text{NDF}$ :13.0/6

All: -51.645+/-17.675  $\chi^2/\text{NDF}$ : 15.1/12

reg\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 55.354+/-0.018  $\chi^2/\text{NDF}$ :188750.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 54.345+/-0.018  $\chi^2/\text{NDF}$ :178051.4/5

Left: 54.844+/-0.012  $\chi^2/\text{NDF}$ : 368429.1/12

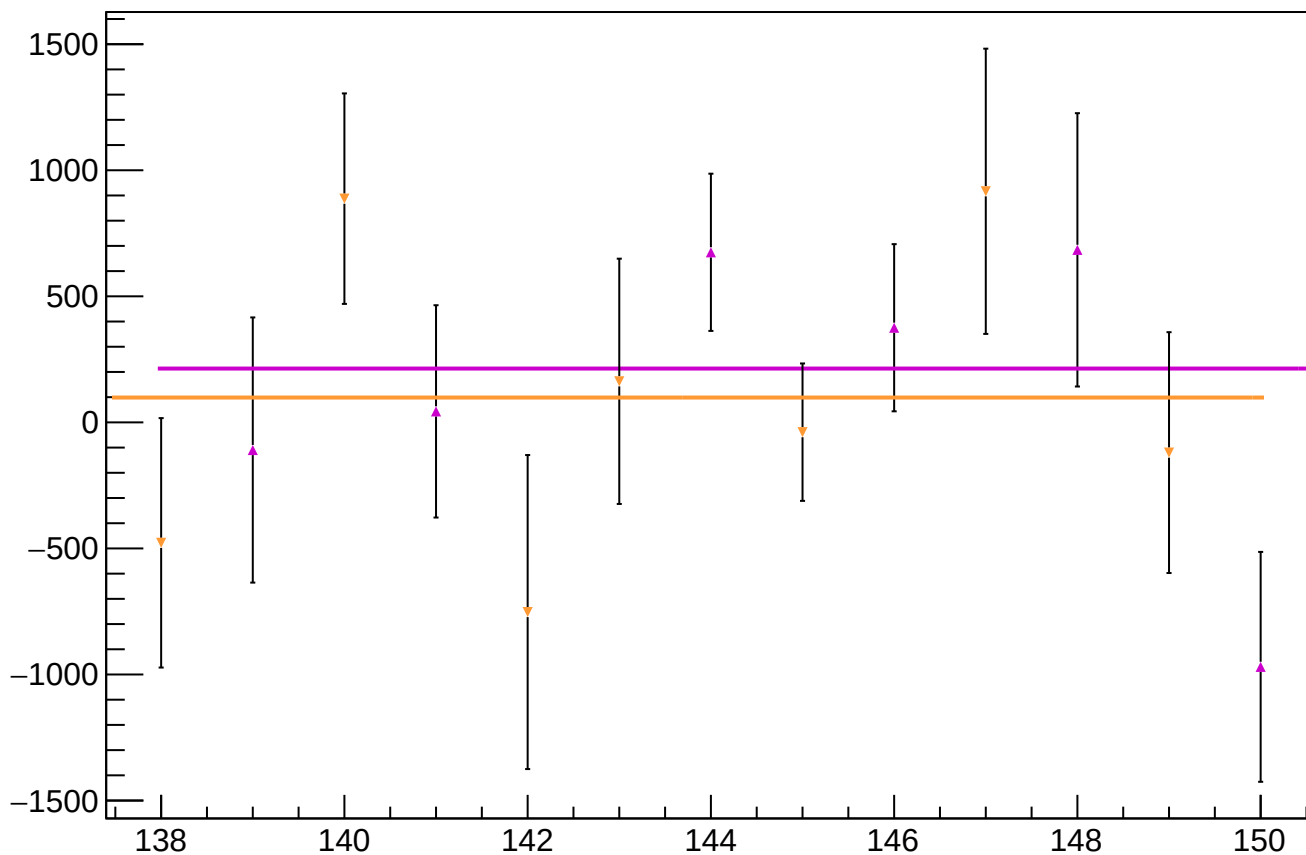
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 54.345+/-0.018  $\chi^2/\text{NDF}$ :178051.4/5

Out: 55.354+/-0.018  $\chi^2/\text{NDF}$ :188750.4/6

All: 54.844+/-0.012  $\chi^2/\text{NDF}$ : 368429.1/12

asym\_sam\_15\_26\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 98.513+/-163.077  $\chi^2/\text{NDF}$ : 9.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 213.485+/-164.727  $\chi^2/\text{NDF}$ : 10.5/5

Left: 155.420+/-115.892  $\chi^2/\text{NDF}$ : 20.1/12

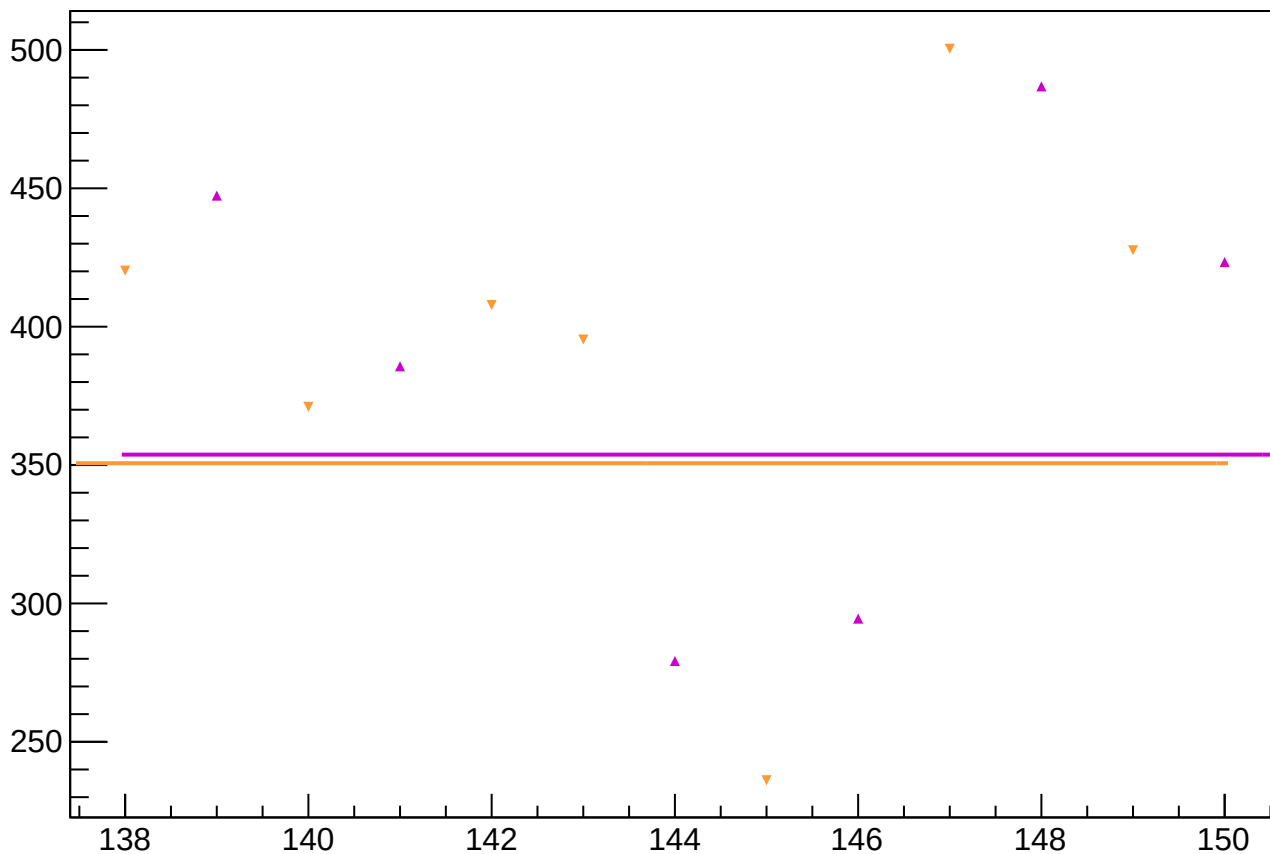
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 213.485+/-164.727  $\chi^2/\text{NDF}$ : 10.5/5

Out: 98.513+/-163.077  $\chi^2/\text{NDF}$ : 9.4/6

All: 155.420+/-115.892  $\chi^2/\text{NDF}$ : 20.1/12

asym\_sam\_15\_26\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 350.671+/-0.115  $\chi^2/\text{NDF}$ :623548.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 353.776+/-0.116  $\chi^2/\text{NDF}$ :420213.5/5

Left: 352.208+/-0.082  $\chi^2/\text{NDF}$ : 1044121.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

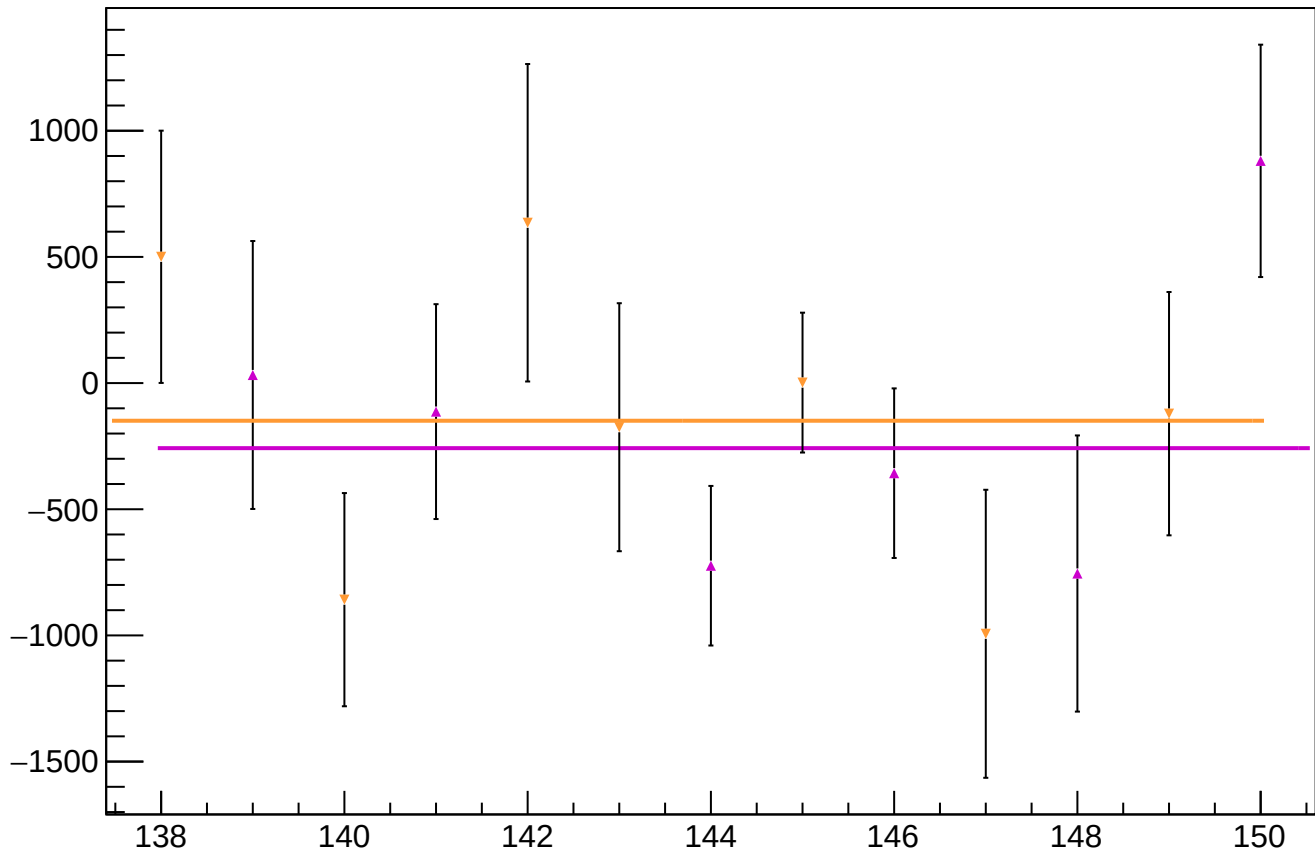
In: 353.776+/-0.116  $\chi^2/\text{NDF}$ :420213.5/5

Out: 350.671+/-0.115  $\chi^2/\text{NDF}$ :623548.5/6

All: 352.208+/-0.082  $\chi^2/\text{NDF}$ : 1044121.0/12



asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -149.249+/-165.146  $\chi^2/\text{NDF}$ : 8.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -257.869+/-166.721  $\chi^2/\text{NDF}$ : 9.6/5

Left: -203.043+/-117.329  $\chi^2/\text{NDF}$ : 18.4/12

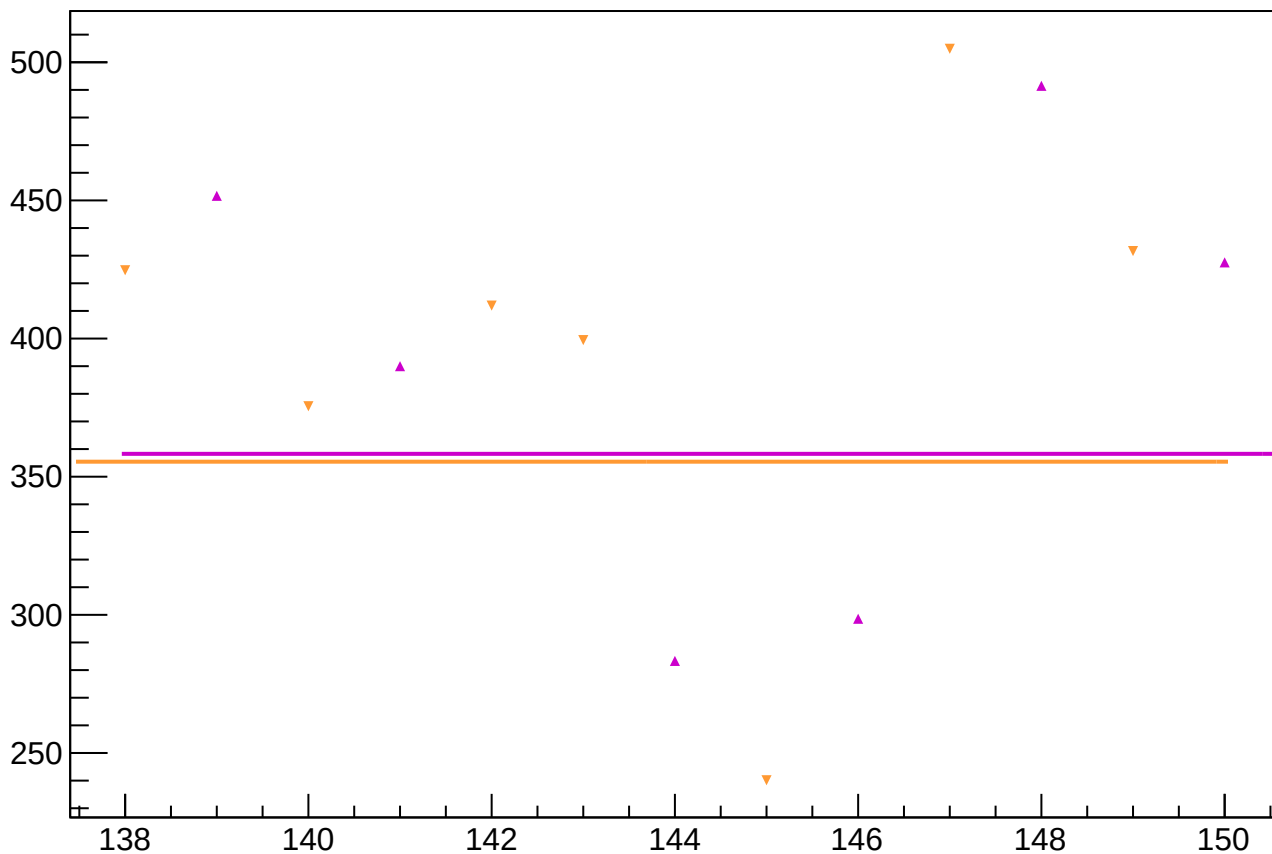
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -257.869+/-166.721  $\chi^2/\text{NDF}$ : 9.6/5

Out: -149.249+/-165.146  $\chi^2/\text{NDF}$ : 8.6/6

All: -203.043+/-117.329  $\chi^2/\text{NDF}$ : 18.4/12

asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 355.434+/-0.117  $\chi^2/\text{NDF}$ : 608482.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 358.273+/-0.118  $\chi^2/\text{NDF}$ : 412238.4/5

Left: 356.840+/-0.083  $\chi^2/\text{NDF}$ : 1021014.1/12

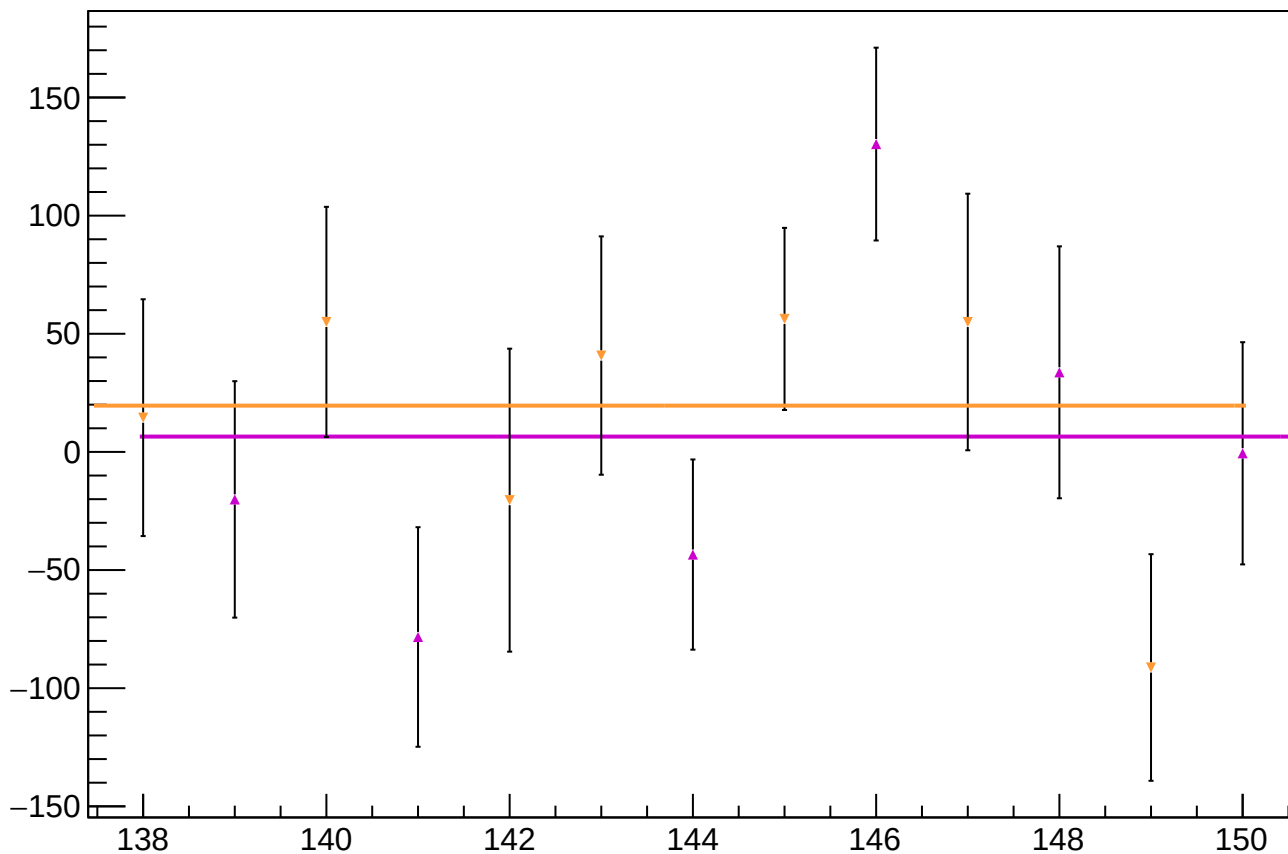
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 358.273+/-0.118  $\chi^2/\text{NDF}$ : 412238.4/5

Out: 355.434+/-0.117  $\chi^2/\text{NDF}$ : 608482.9/6

All: 356.840+/-0.083  $\chi^2/\text{NDF}$ : 1021014.1/12

reg\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 19.591+/-18.559  $\chi^2/\text{NDF}$ : 7.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 6.491+/-18.619  $\chi^2/\text{NDF}$ : 14.6/5

Left: 13.062+/-13.144  $\chi^2/\text{NDF}$ : 22.7/12

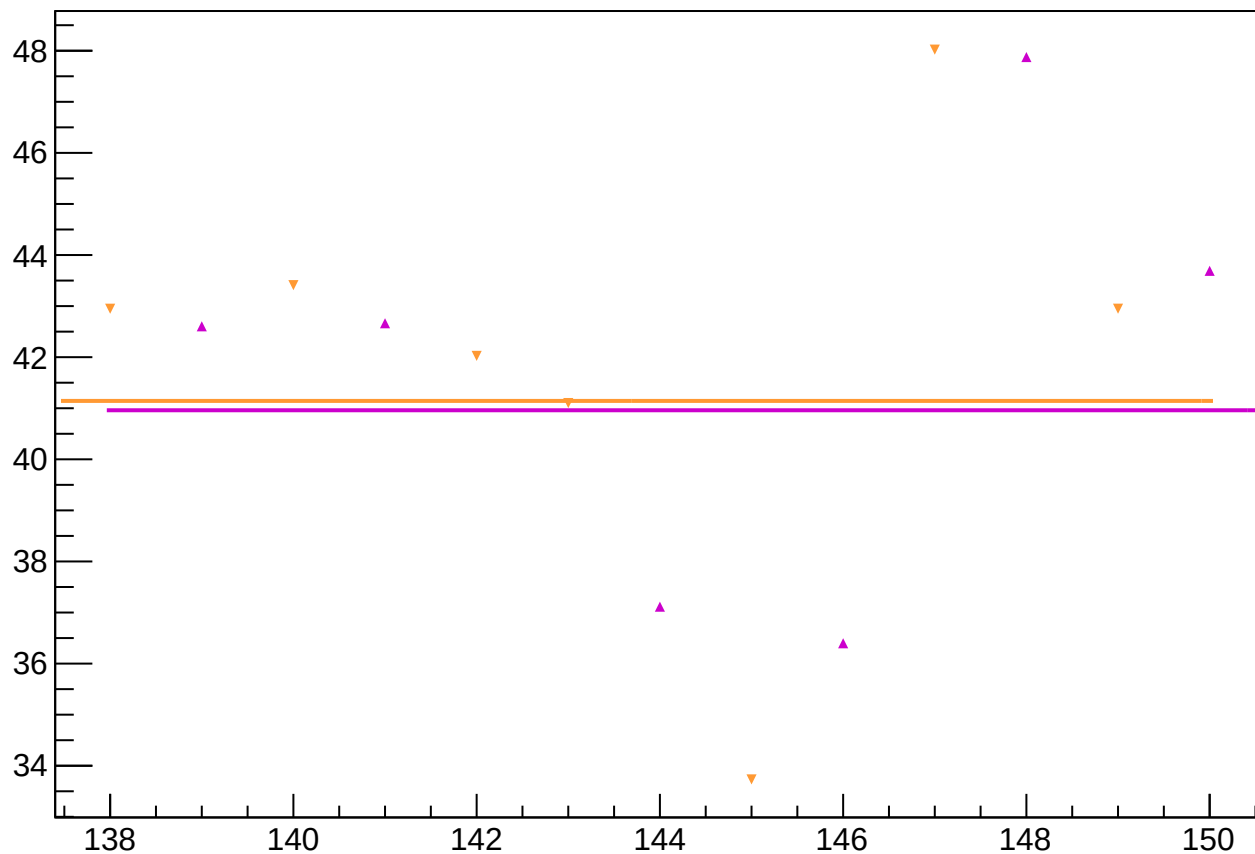
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 6.491+/-18.619  $\chi^2/\text{NDF}$ : 14.6/5

Out: 19.591+/-18.559  $\chi^2/\text{NDF}$ : 7.8/6

All: 13.062+/-13.144  $\chi^2/\text{NDF}$ : 22.7/12

reg\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 41.144+/-0.013  $\chi^2/\text{NDF}$ :116195.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 40.960+/-0.013  $\chi^2/\text{NDF}$ :88524.2/5

Left: 41.052+/-0.009  $\chi^2/\text{NDF}$ : 204816.5/12

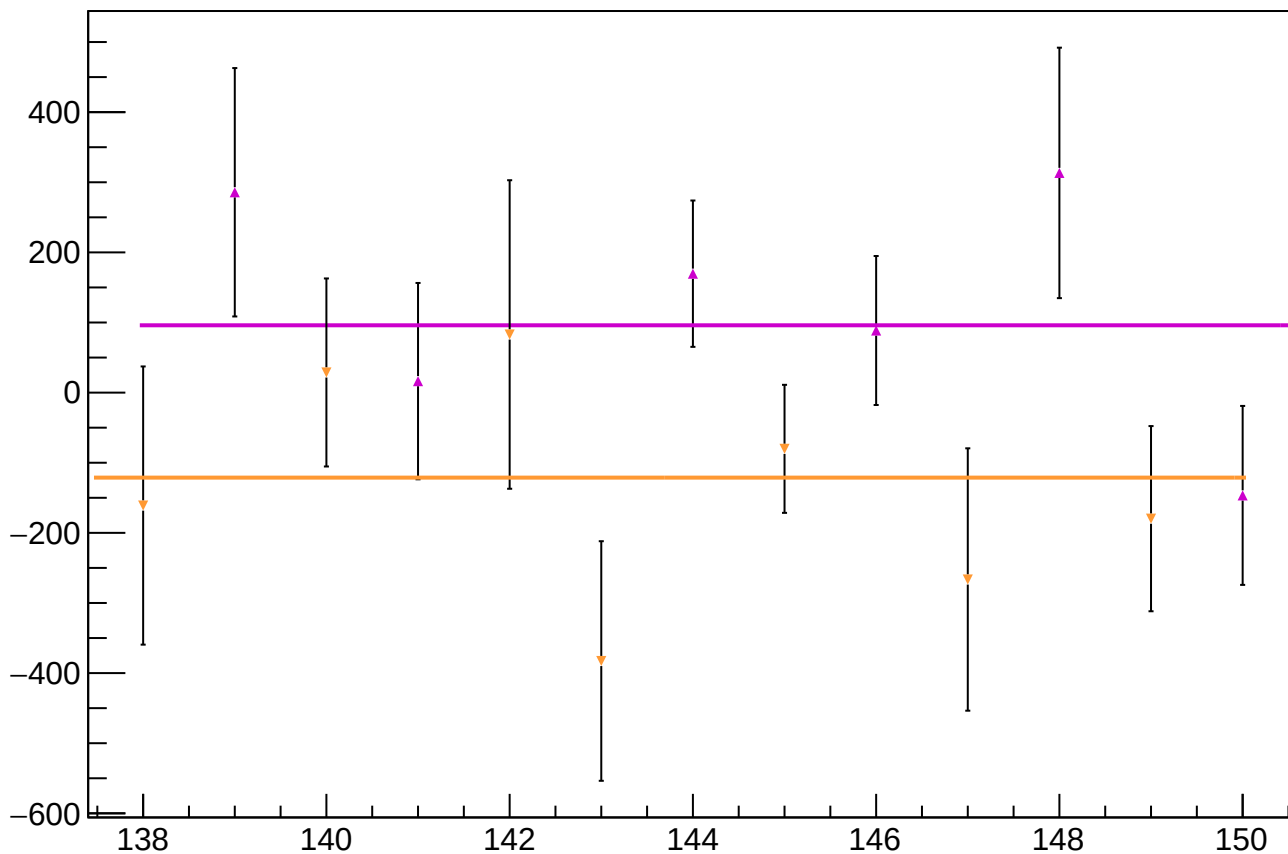
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 40.960+/-0.013  $\chi^2/\text{NDF}$ :88524.2/5

Out: 41.144+/-0.013  $\chi^2/\text{NDF}$ :116195.3/6

All: 41.052+/-0.009  $\chi^2/\text{NDF}$ : 204816.5/12

asym\_sam\_37\_26\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -121.219+/-54.087  $\chi^2/\text{NDF}$ :5.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 96.027+/-52.995  $\chi^2/\text{NDF}$ :7.1/5

Left: -10.380+/-37.853  $\chi^2/\text{NDF}$ : 20.8/12

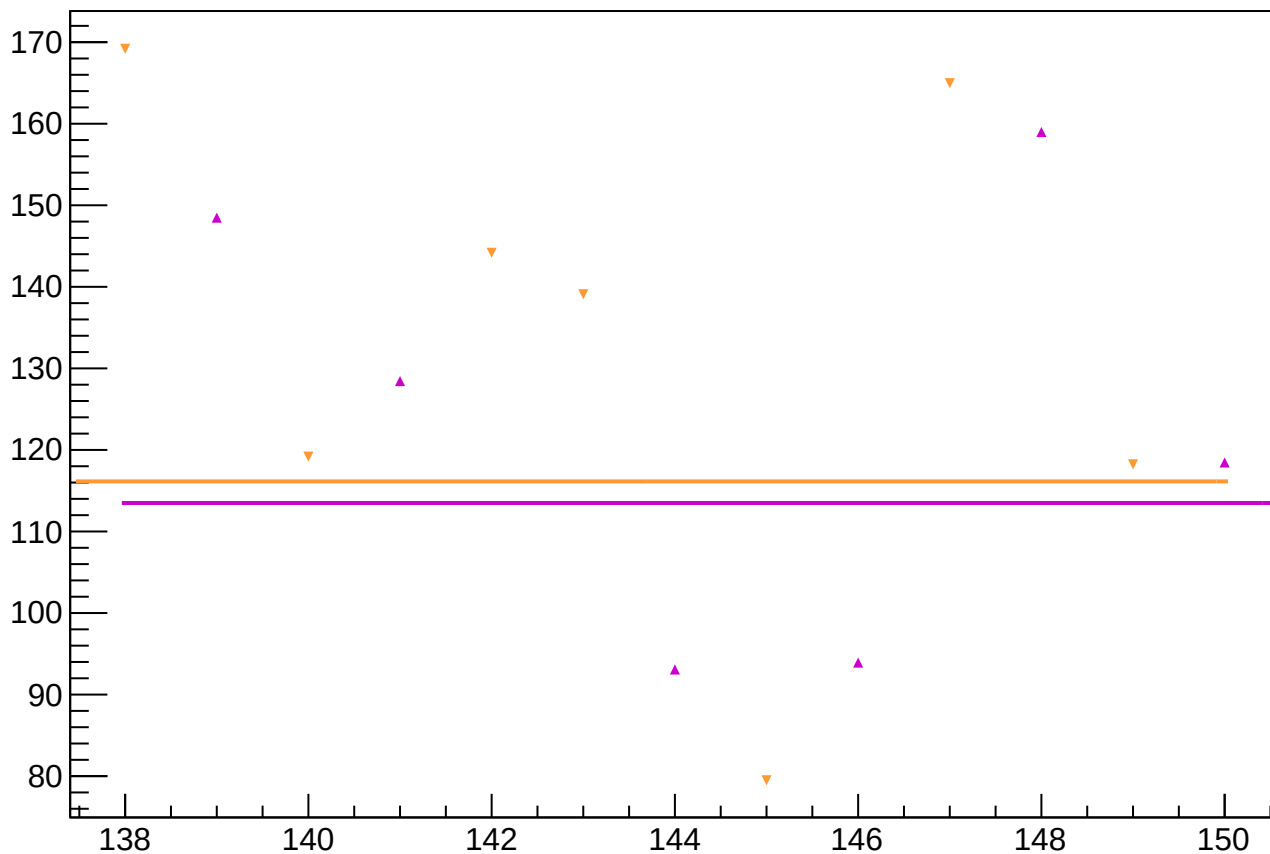
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 96.027+/-52.995  $\chi^2/\text{NDF}$ :7.1/5

Out: -121.219+/-54.087  $\chi^2/\text{NDF}$ :5.5/6

All: -10.380+/-37.853  $\chi^2/\text{NDF}$ : 20.8/12

asym\_sam\_37\_26\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 116.141+/-0.038  $\chi^2/\text{NDF}$ : 671533.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 113.495+/-0.037  $\chi^2/\text{NDF}$ : 378057.6/5

Left: 114.791+/-0.027  $\chi^2/\text{NDF}$ : 1052035.0/12

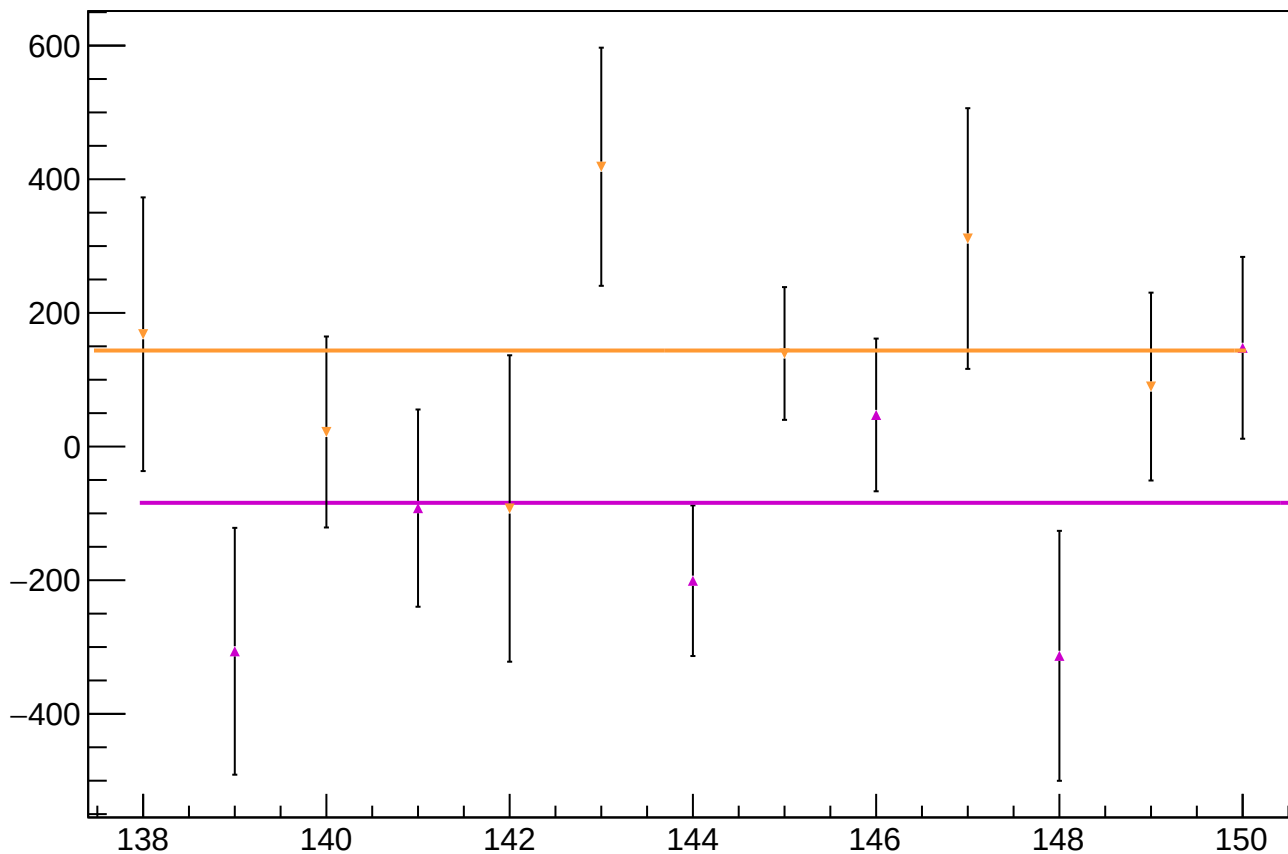
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 113.495+/-0.037  $\chi^2/\text{NDF}$ : 378057.6/5

Out: 116.141+/-0.038  $\chi^2/\text{NDF}$ : 671533.7/6

All: 114.791+/-0.027  $\chi^2/\text{NDF}$ : 1052035.0/12

asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 143.716 $\pm$ 57.581  $\chi^2$ /NDF:5.1/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -84.189 $\pm$ 56.504  $\chi^2$ /NDF:8.2/5

Left: 27.612 $\pm$ 40.330  $\chi^2$ /NDF: 21.3/12

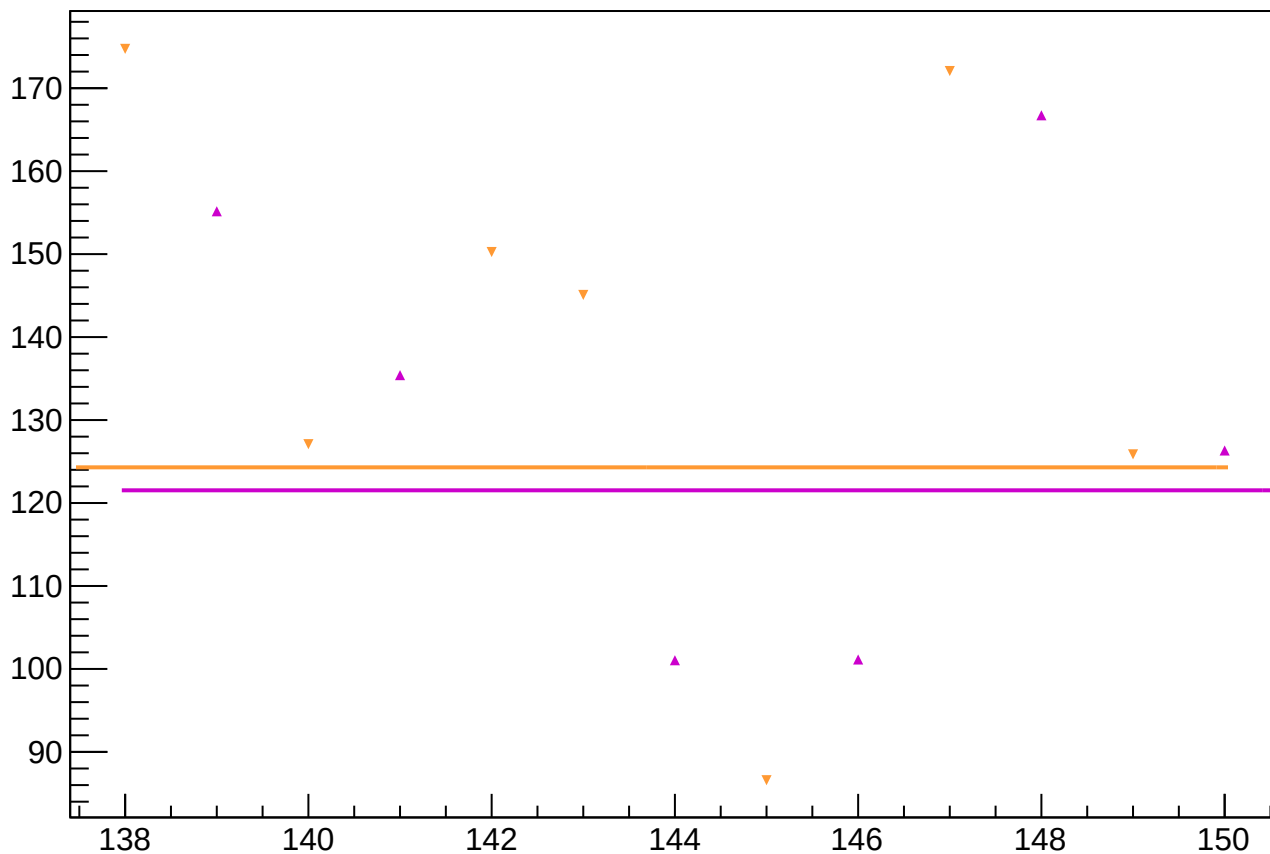
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -84.189 $\pm$ 56.504  $\chi^2$ /NDF:8.2/5

Out: 143.716 $\pm$ 57.581  $\chi^2$ /NDF:5.1/6

All: 27.612 $\pm$ 40.330  $\chi^2$ /NDF: 21.3/12

asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 124.300+/-0.041  $\chi^2/\text{NDF}$ :583441.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 121.531+/-0.040  $\chi^2/\text{NDF}$ :333151.3/5

Left: 122.889+/-0.029  $\chi^2/\text{NDF}$ : 918949.1/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

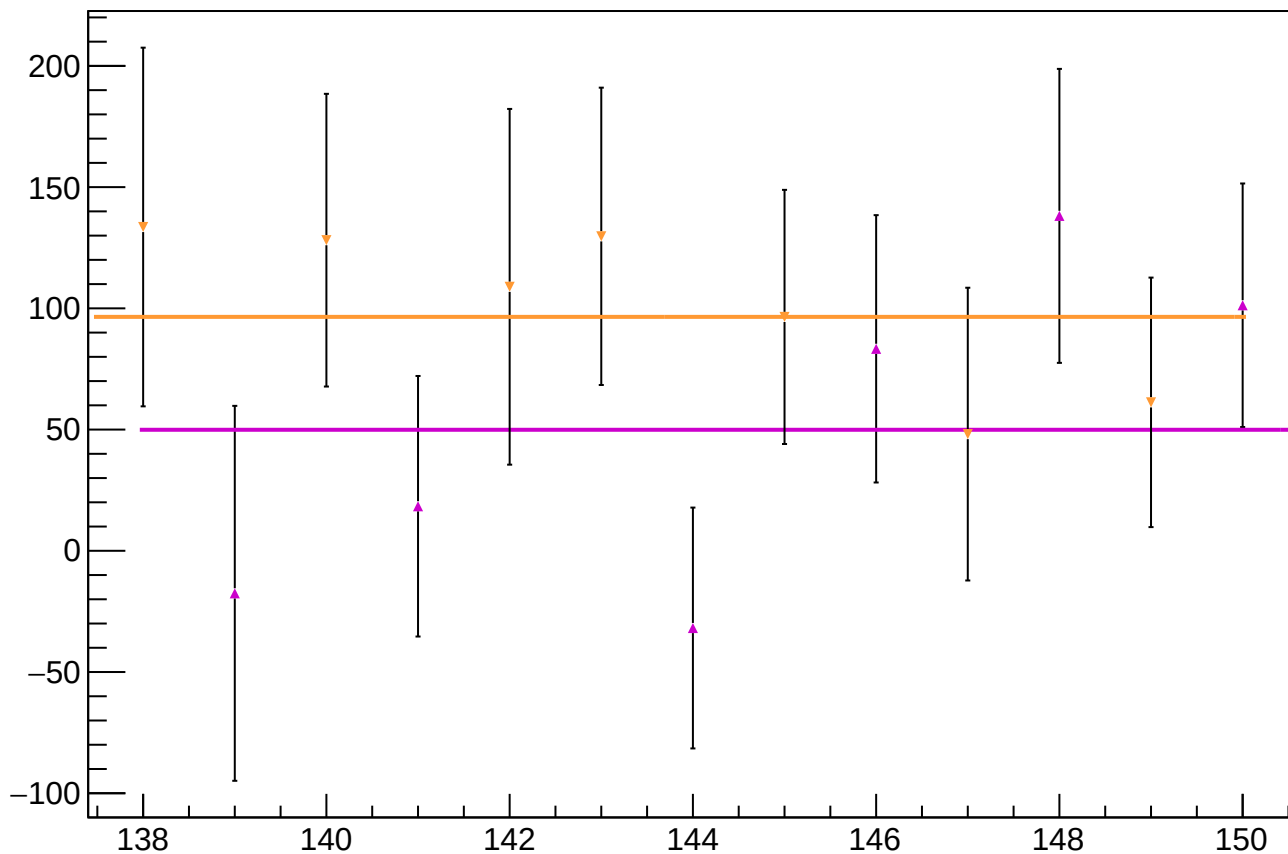
In: 121.531+/-0.040  $\chi^2/\text{NDF}$ :333151.3/5

Out: 124.300+/-0.041  $\chi^2/\text{NDF}$ :583441.8/6

All: 122.889+/-0.029  $\chi^2/\text{NDF}$ : 918949.1/12



reg\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 96.487+/-22.792  $\chi^2/\text{NDF}$ : 2.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 49.916+/-22.844  $\chi^2/\text{NDF}$ : 7.3/5

Left: 73.254+/-16.135  $\chi^2/\text{NDF}$ : 11.4/12

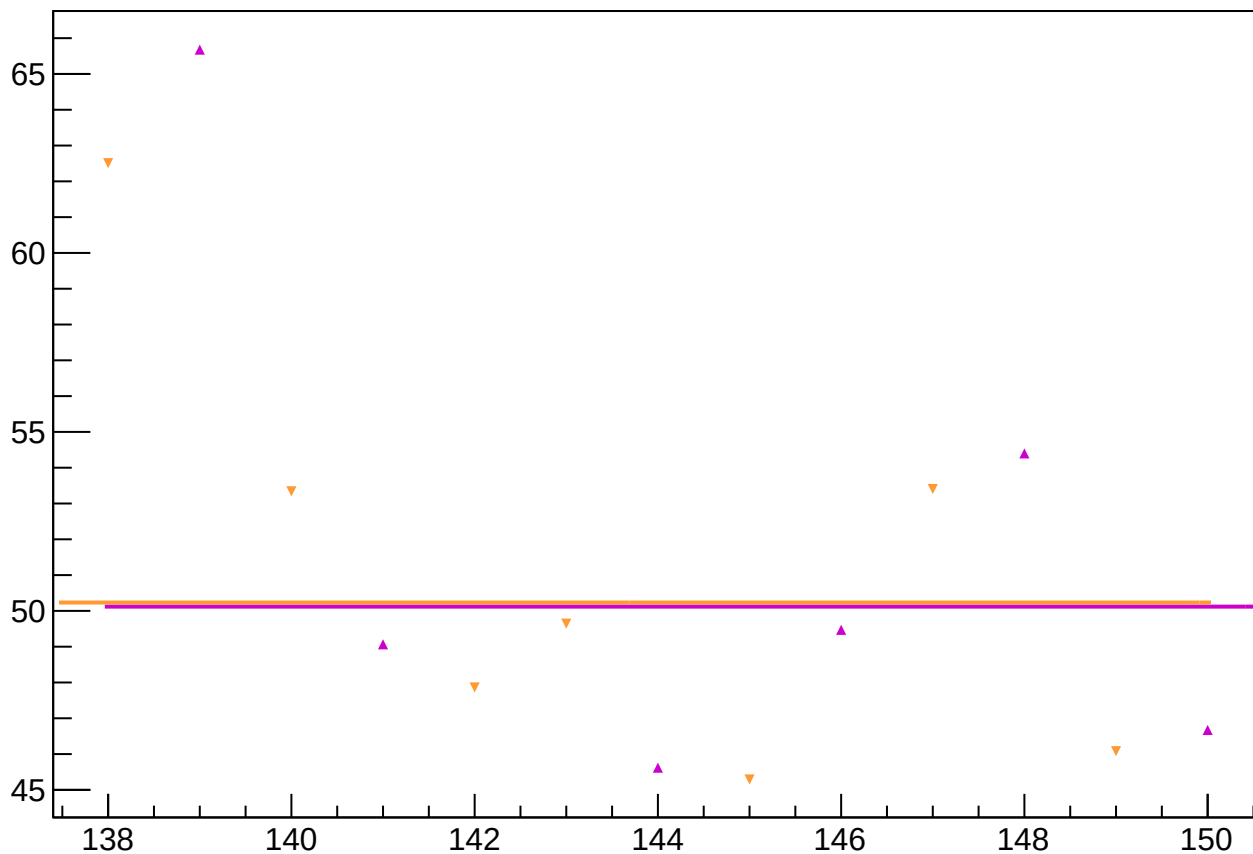
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 49.916+/-22.844  $\chi^2/\text{NDF}$ : 7.3/5

Out: 96.487+/-22.792  $\chi^2/\text{NDF}$ : 2.0/6

All: 73.254+/-16.135  $\chi^2/\text{NDF}$ : 11.4/12

reg\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 50.234+/-0.016  $\chi^2/\text{NDF}$ :98983.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 50.119+/-0.016  $\chi^2/\text{NDF}$ :117825.1/5

Left: 50.177+/-0.011  $\chi^2/\text{NDF}$ : 216833.7/12

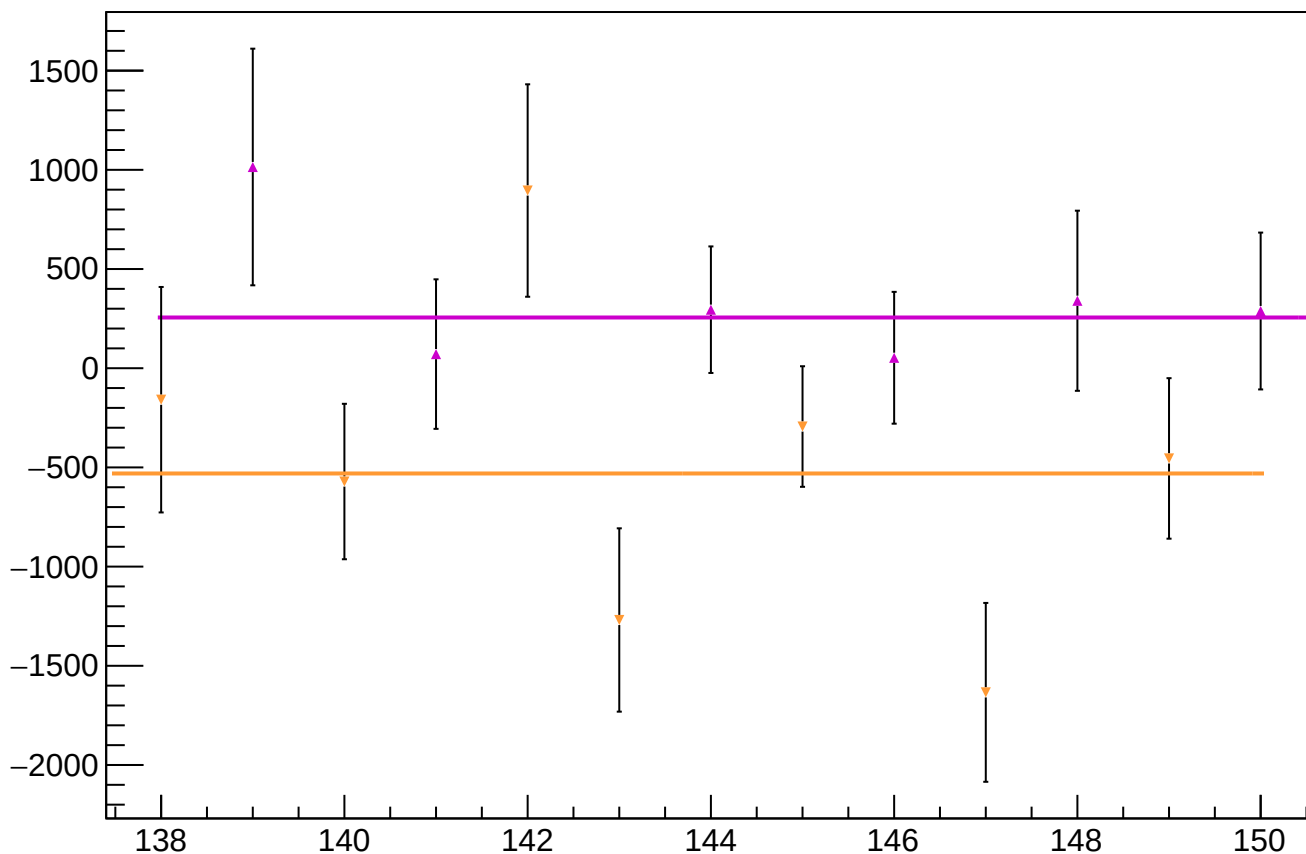
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 50.119+/-0.016  $\chi^2/\text{NDF}$ :117825.1/5

Out: 50.234+/-0.016  $\chi^2/\text{NDF}$ :98983.3/6

All: 50.177+/-0.011  $\chi^2/\text{NDF}$ : 216833.7/12

asym\_sam\_1357\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -530.607+/-158.827  $\chi^2/\text{NDF}$ :16.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 255.667+/-158.123  $\chi^2/\text{NDF}$ :2.3/5

Left: -135.726+/-112.058  $\chi^2/\text{NDF}$ : 31.3/12

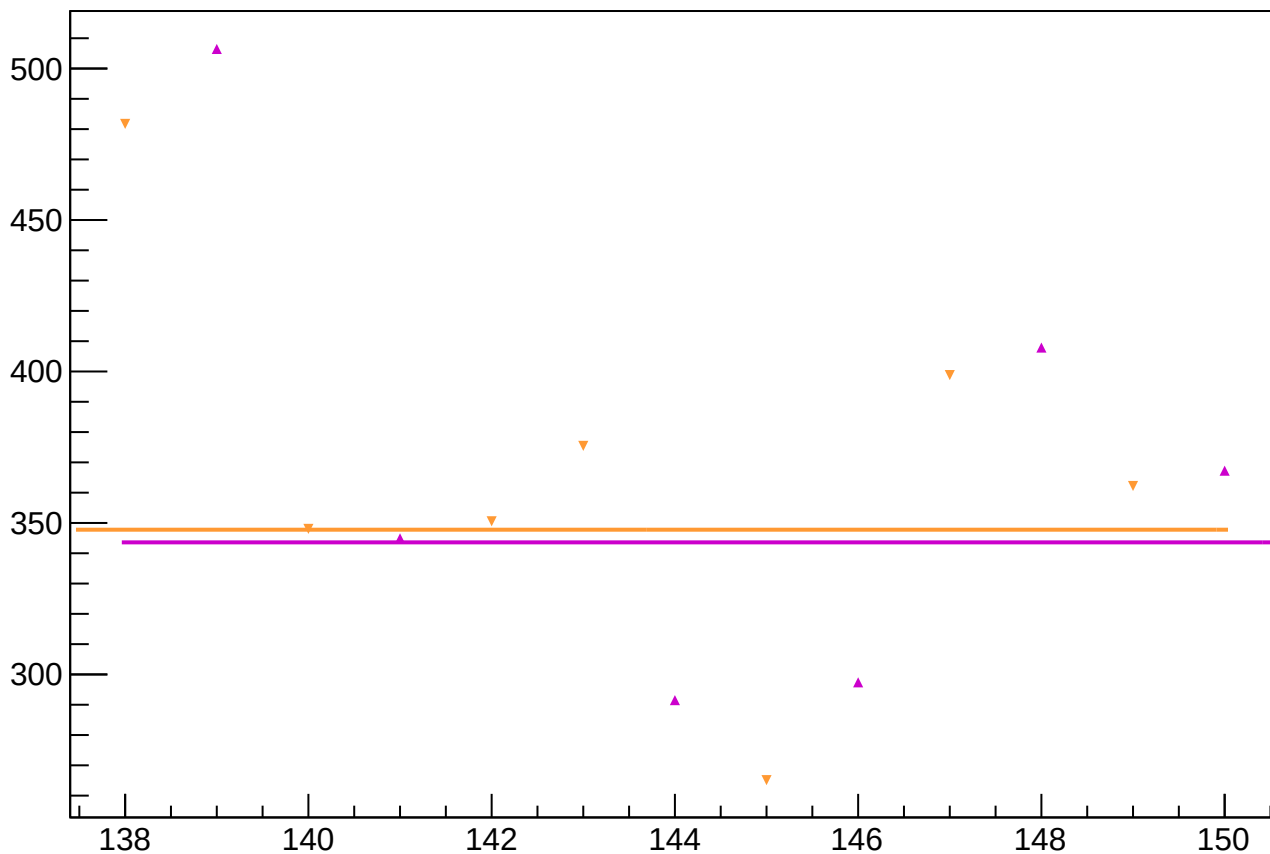
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 255.667+/-158.123  $\chi^2/\text{NDF}$ :2.3/5

Out: -530.607+/-158.827  $\chi^2/\text{NDF}$ :16.7/6

All: -135.726+/-112.058  $\chi^2/\text{NDF}$ : 31.3/12

asym\_sam\_1357\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 347.777+/-0.112  $\chi^2/\text{NDF}$ :294523.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 343.596+/-0.112  $\chi^2/\text{NDF}$ :288448.2/5

Left: 345.677+/-0.079  $\chi^2/\text{NDF}$ : 583667.1/12

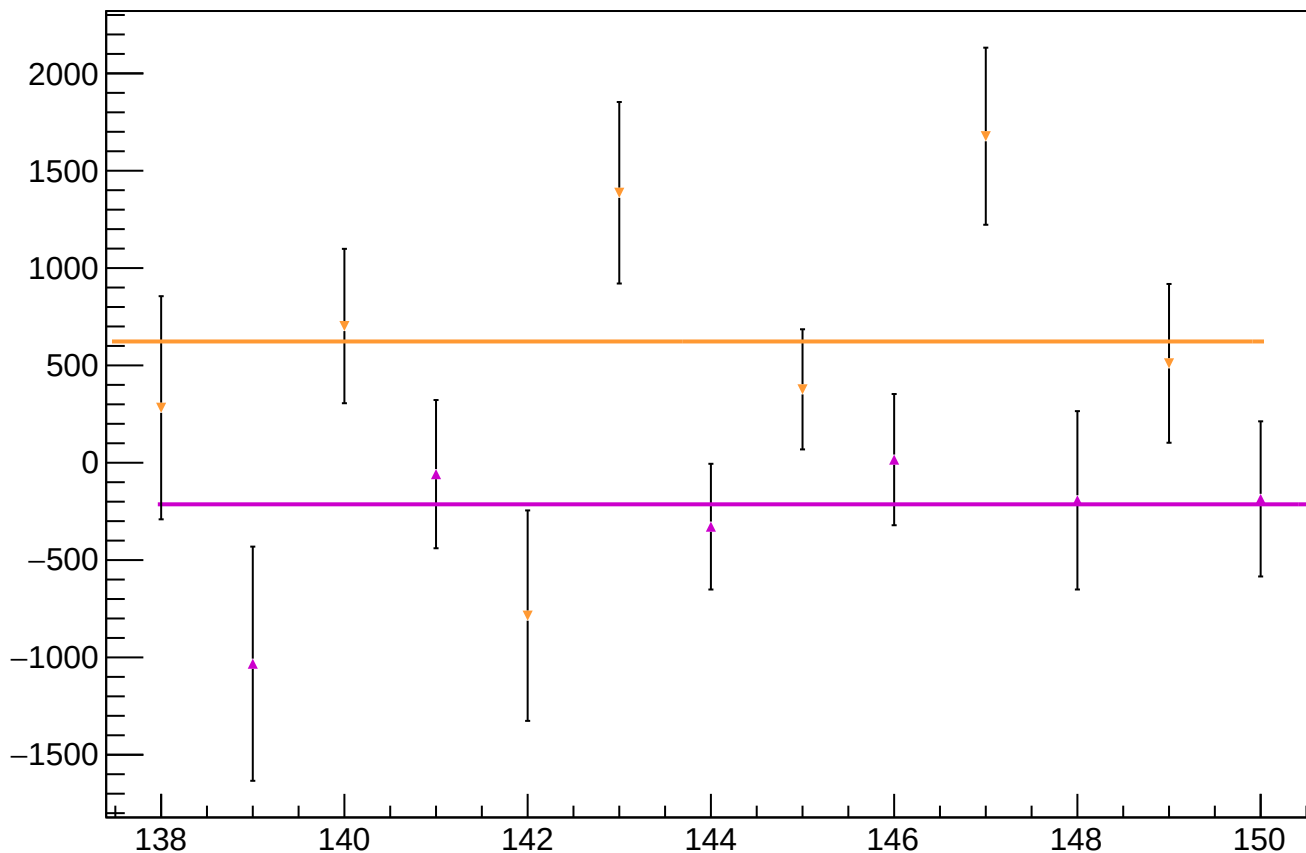
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 343.596+/-0.112  $\chi^2/\text{NDF}$ :288448.2/5

Out: 347.777+/-0.112  $\chi^2/\text{NDF}$ :294523.0/6

All: 345.677+/-0.079  $\chi^2/\text{NDF}$ : 583667.1/12

asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 622.942+/-160.589  $\chi^2/\text{NDF}$ :16.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -213.573+/-159.883  $\chi^2/\text{NDF}$ :2.6/5

Left: 202.841+/-113.303  $\chi^2/\text{NDF}$ : 32.2/12

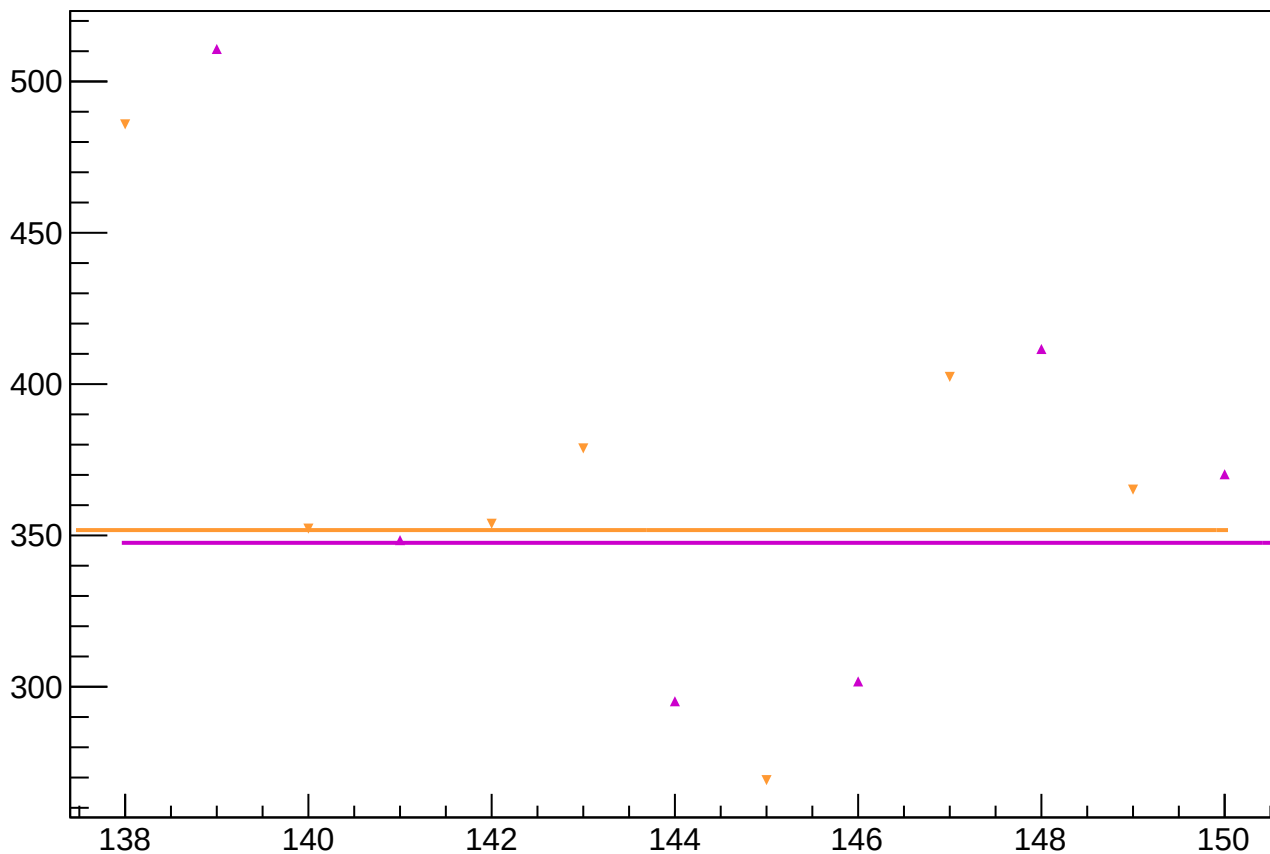
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -213.573+/-159.883  $\chi^2/\text{NDF}$ :2.6/5

Out: 622.942+/-160.589  $\chi^2/\text{NDF}$ :16.0/6

All: 202.841+/-113.303  $\chi^2/\text{NDF}$ : 32.2/12

# asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 351.767+/-0.114  $\chi^2/\text{NDF}$ :286472.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 347.558+/-0.113  $\chi^2/\text{NDF}$ :282282.0/5

Left: 349.653+/-0.080  $\chi^2/\text{NDF}$ : 569444.6/12

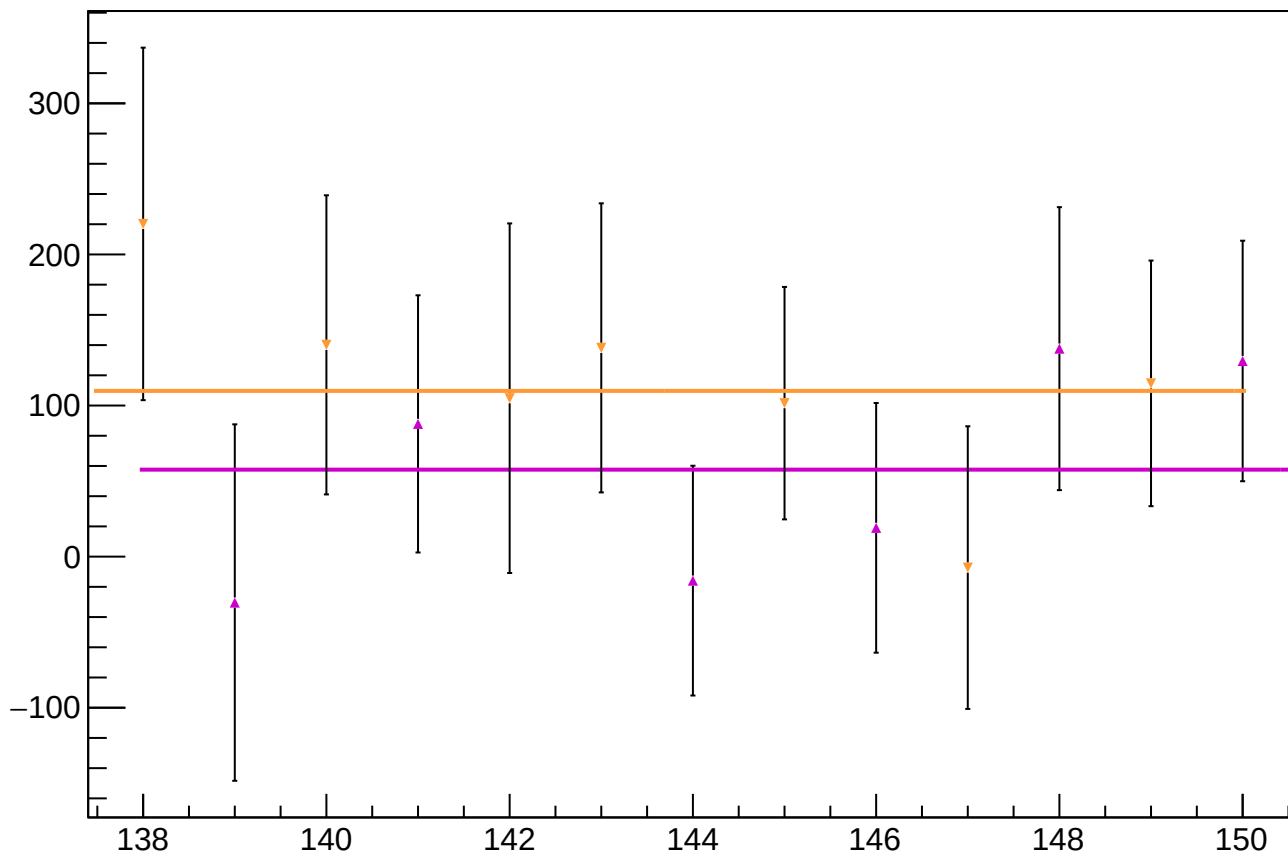
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 347.558+/-0.113  $\chi^2/\text{NDF}$ :282282.0/5

Out: 351.767+/-0.114  $\chi^2/\text{NDF}$ :286472.4/6

All: 349.653+/-0.080  $\chi^2/\text{NDF}$ : 569444.6/12

reg\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 109.684+/-35.484  $\chi^2/\text{NDF}$ : 2.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 57.563+/-35.330  $\chi^2/\text{NDF}$ : 3.4/5

Left: 83.511+/-25.036  $\chi^2/\text{NDF}$ : 7.1/12

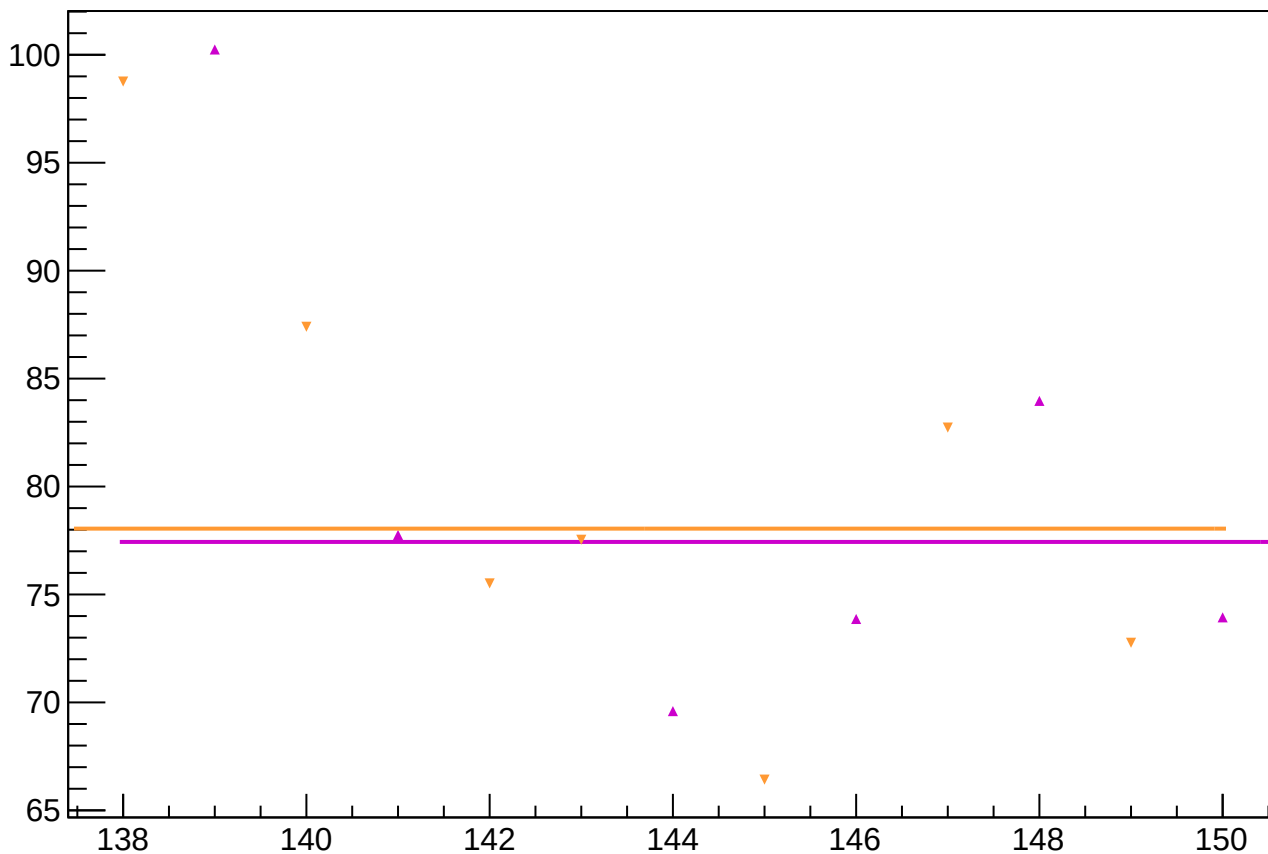
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 57.563+/-35.330  $\chi^2/\text{NDF}$ : 3.4/5

Out: 109.684+/-35.484  $\chi^2/\text{NDF}$ : 2.7/6

All: 83.511+/-25.036  $\chi^2/\text{NDF}$ : 7.1/12

reg\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 78.050+/-0.025  $\chi^2/\text{NDF}$ :141084.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 77.434+/-0.025  $\chi^2/\text{NDF}$ :113393.3/5

Left: 77.741+/-0.018  $\chi^2/\text{NDF}$ : 254780.8/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

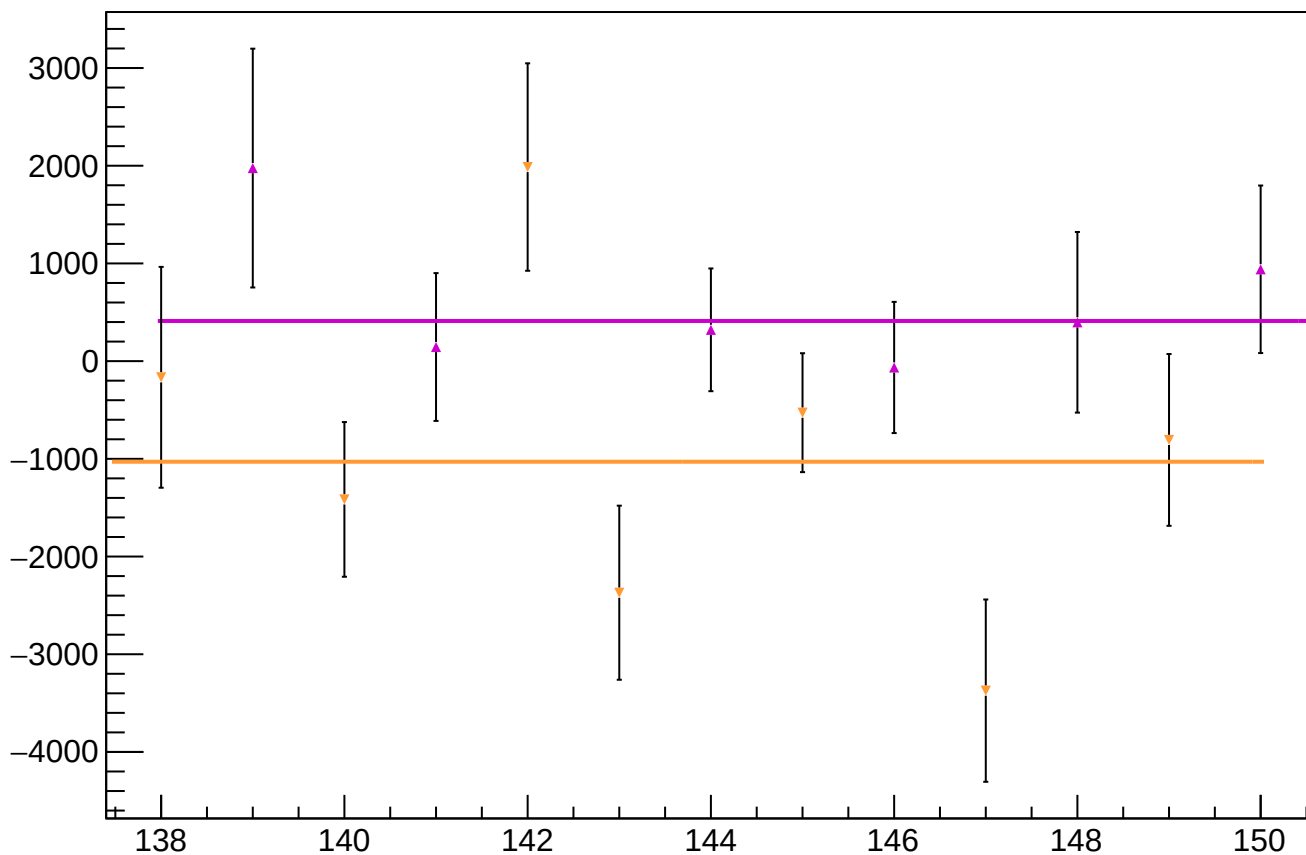
In: 77.434+/-0.025  $\chi^2/\text{NDF}$ :113393.3/5

Out: 78.050+/-0.025  $\chi^2/\text{NDF}$ :141084.6/6

All: 77.741+/-0.018  $\chi^2/\text{NDF}$ : 254780.8/12



asym\_sam\_2468\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1029.609+/-321.595  $\chi^2/\text{NDF}$ :18.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 411.010+/-321.049  $\chi^2/\text{NDF}$ :2.7/5

Left: -308.075+/-227.209  $\chi^2/\text{NDF}$ : 30.9/12

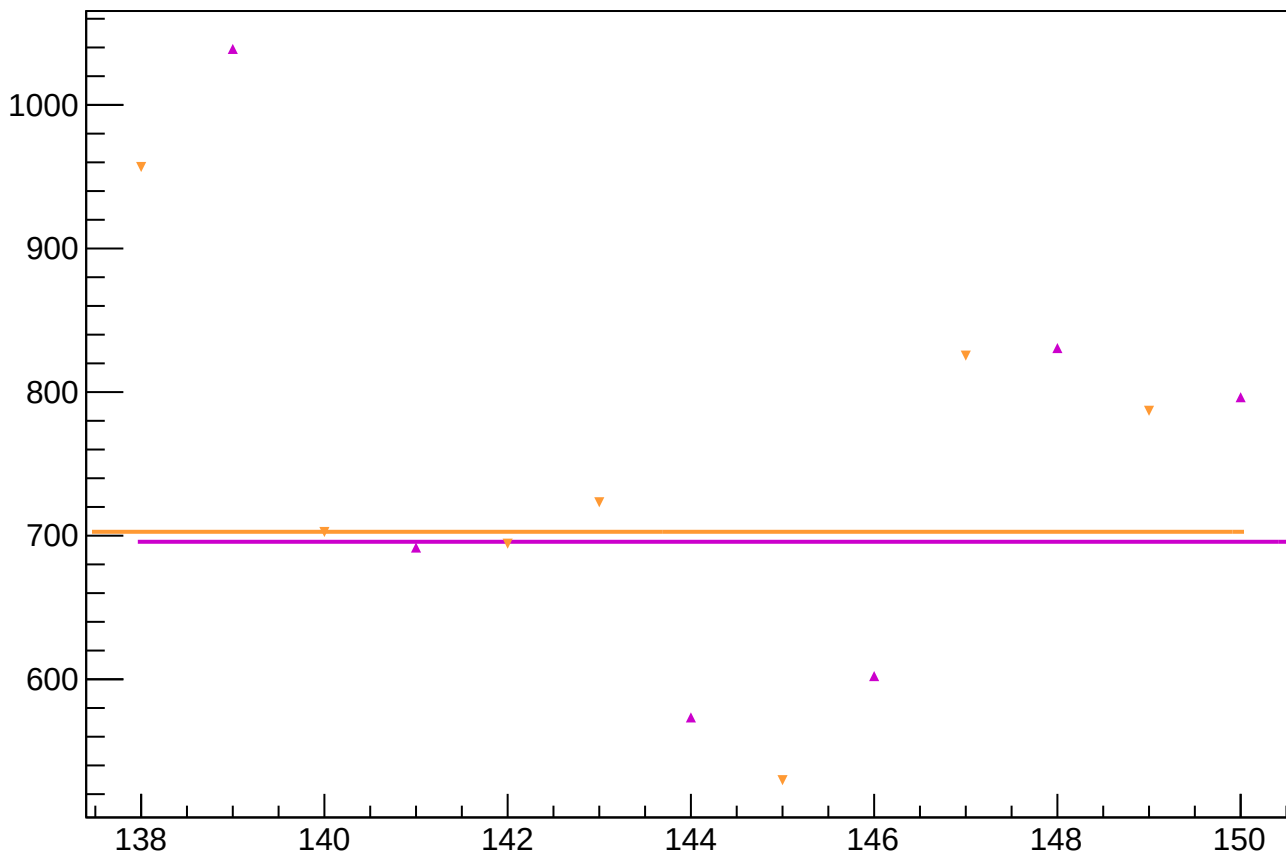
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 411.010+/-321.049  $\chi^2/\text{NDF}$ :2.7/5

Out: -1029.609+/-321.595  $\chi^2/\text{NDF}$ :18.2/6

All: -308.075+/-227.209  $\chi^2/\text{NDF}$ : 30.9/12

asym\_sam\_2468\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 702.717+/-0.227  $\chi^2/\text{NDF}$ :316823.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 695.753+/-0.227  $\chi^2/\text{NDF}$ :342701.4/5

Left: 699.229+/-0.161  $\chi^2/\text{NDF}$ : 659994.9/12

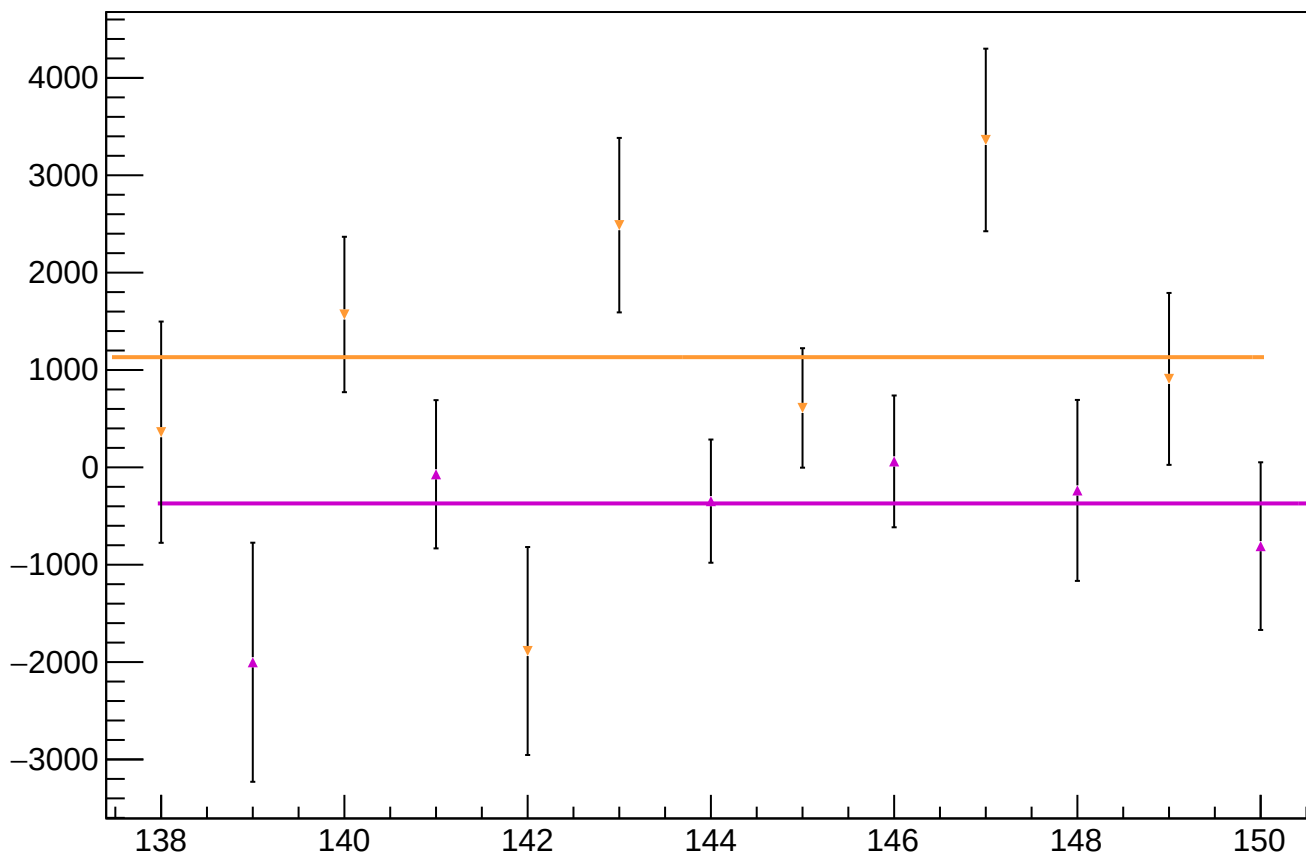
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 695.753+/-0.227  $\chi^2/\text{NDF}$ :342701.4/5

Out: 702.717+/-0.227  $\chi^2/\text{NDF}$ :316823.9/6

All: 699.229+/-0.161  $\chi^2/\text{NDF}$ : 659994.9/12

asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1131.773+/-323.710  $\chi^2/\text{NDF}$ :17.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -370.590+/-323.160  $\chi^2/\text{NDF}$ :2.6/5

Left: 379.314+/-228.703  $\chi^2/\text{NDF}$ : 30.9/12

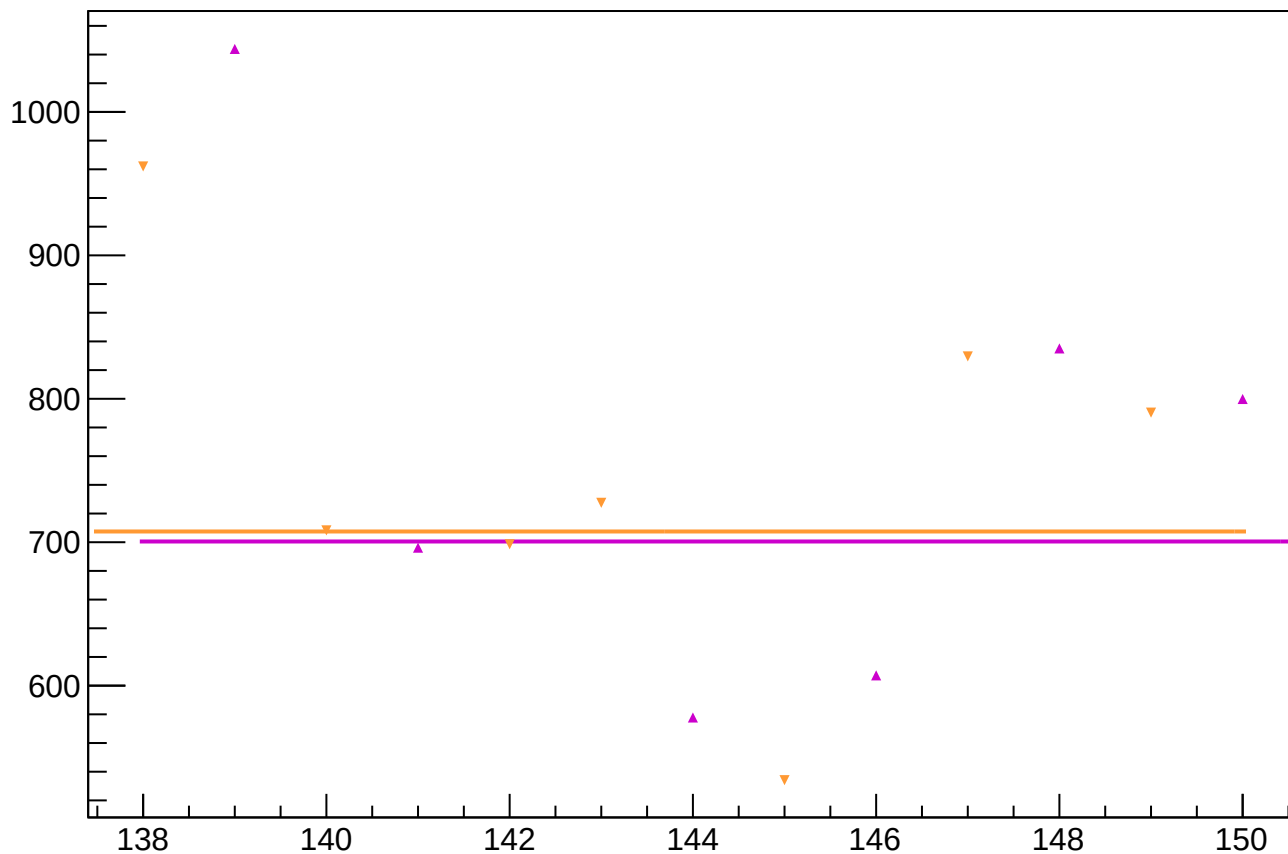
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -370.590+/-323.160  $\chi^2/\text{NDF}$ :2.6/5

Out: 1131.773+/-323.710  $\chi^2/\text{NDF}$ :17.5/6

All: 379.314+/-228.703  $\chi^2/\text{NDF}$ : 30.9/12

# asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 707.486+/-0.229  $\chi^2/\text{NDF}$ :312683.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 700.509+/-0.229  $\chi^2/\text{NDF}$ :338352.6/5

Left: 703.991+/-0.162  $\chi^2/\text{NDF}$ : 651501.5/12

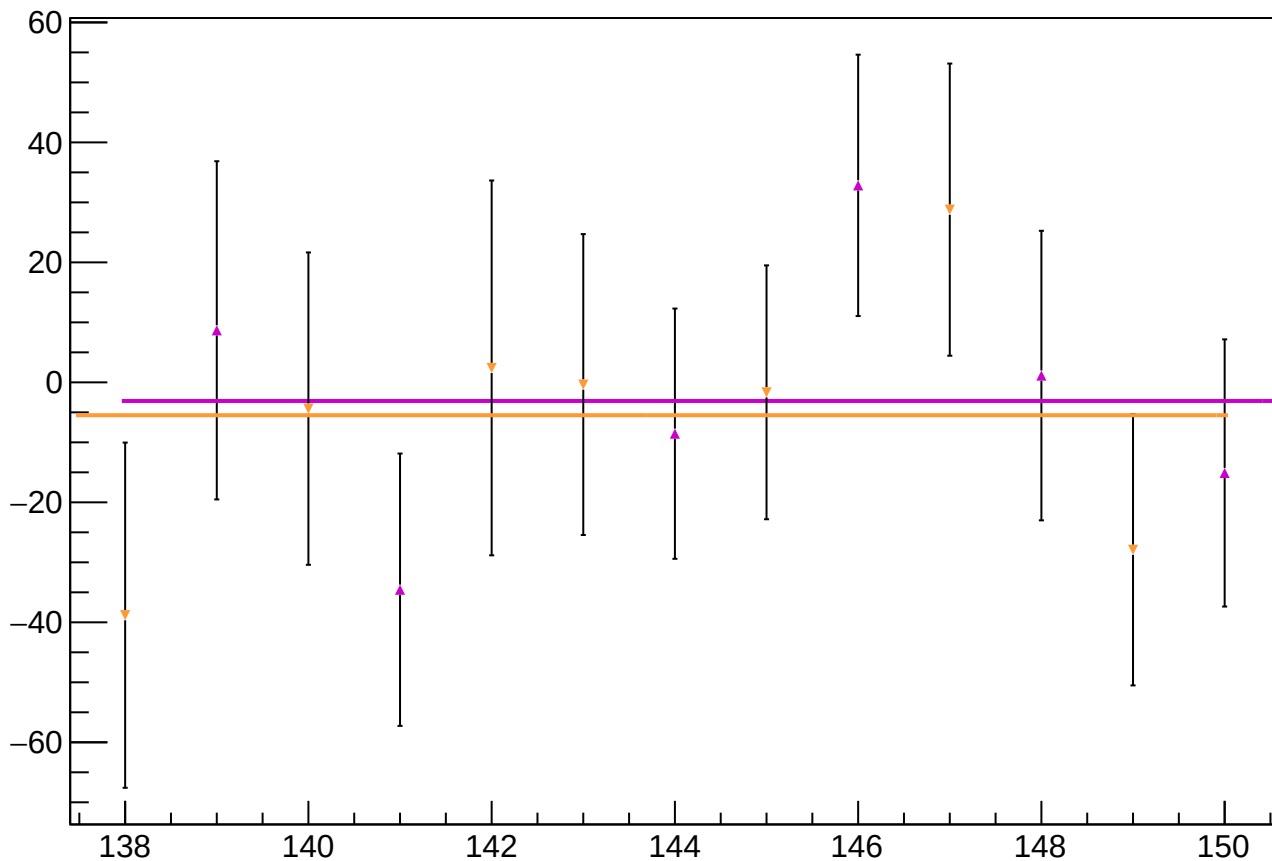
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 700.509+/-0.229  $\chi^2/\text{NDF}$ :338352.6/5

Out: 707.486+/-0.229  $\chi^2/\text{NDF}$ :312683.7/6

All: 703.991+/-0.162  $\chi^2/\text{NDF}$ : 651501.5/12

reg\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -5.477+/-9.460  $\chi^2/\text{NDF}$ :4.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -3.102+/-9.391  $\chi^2/\text{NDF}$ :5.2/5

Left: -4.281+/-6.665  $\chi^2/\text{NDF}$ : 9.7/12

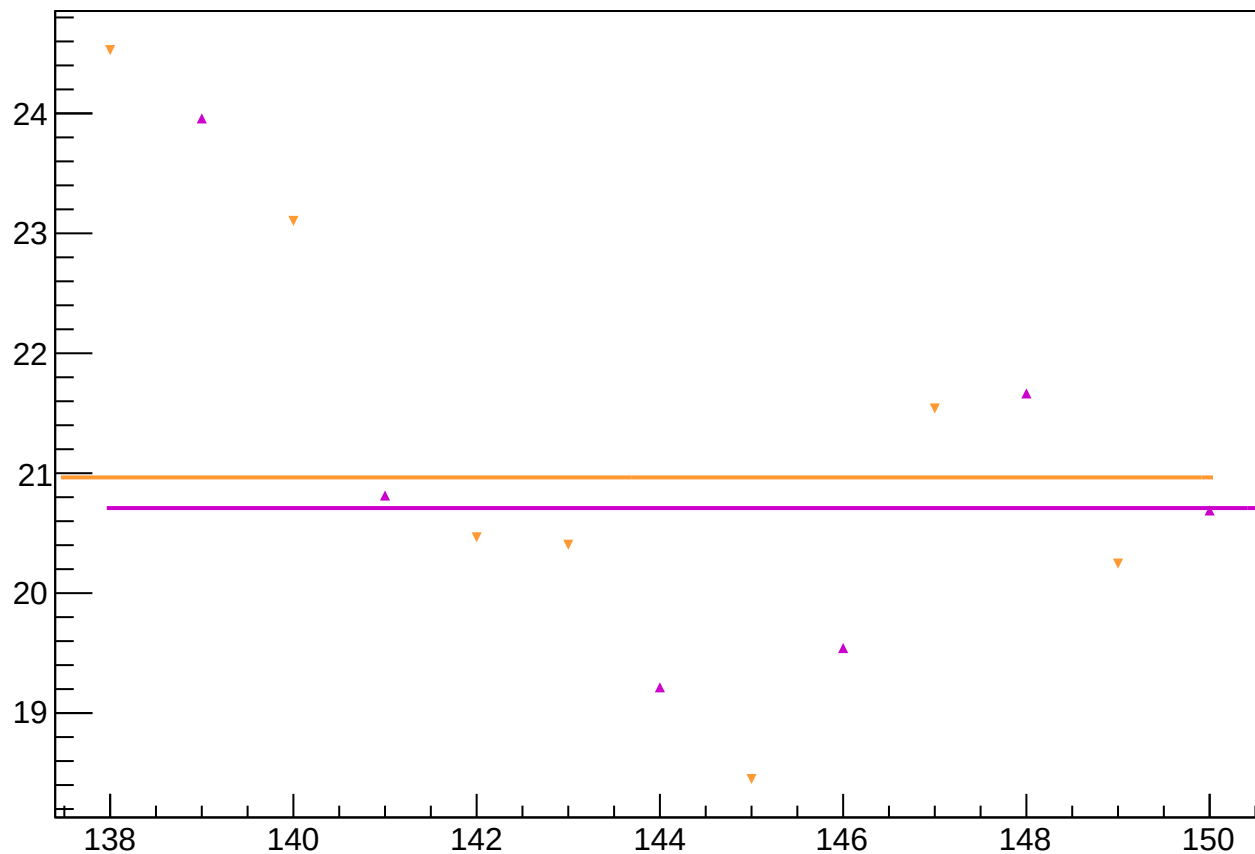
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3.102+/-9.391  $\chi^2/\text{NDF}$ :5.2/5

Out: -5.477+/-9.460  $\chi^2/\text{NDF}$ :4.4/6

All: -4.281+/-6.665  $\chi^2/\text{NDF}$ : 9.7/12

reg\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 20.965+/-0.007  $\chi^2/\text{NDF}$ : 77060.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 20.709+/-0.007  $\chi^2/\text{NDF}$ : 45759.1/5

Left: 20.836+/-0.005  $\chi^2/\text{NDF}$ : 123555.0/12

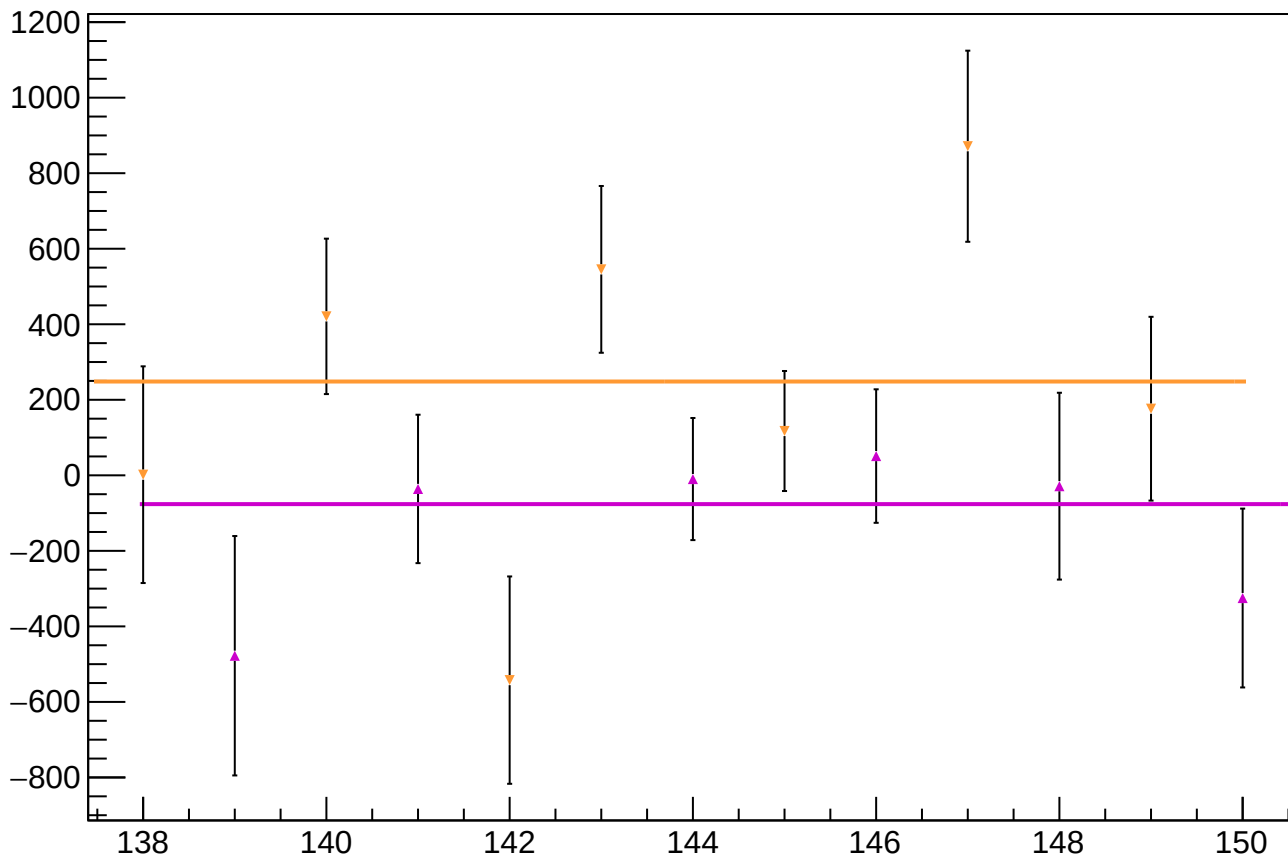
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 20.709+/-0.007  $\chi^2/\text{NDF}$ : 45759.1/5

Out: 20.965+/-0.007  $\chi^2/\text{NDF}$ : 77060.3/6

All: 20.836+/-0.005  $\chi^2/\text{NDF}$ : 123555.0/12

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 248.392+/-84.021  $\chi^2/\text{NDF}$ :18.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -76.241+/-84.424  $\chi^2/\text{NDF}$ :3.5/5

Left: 86.852+/-59.554  $\chi^2/\text{NDF}$ : 29.3/12

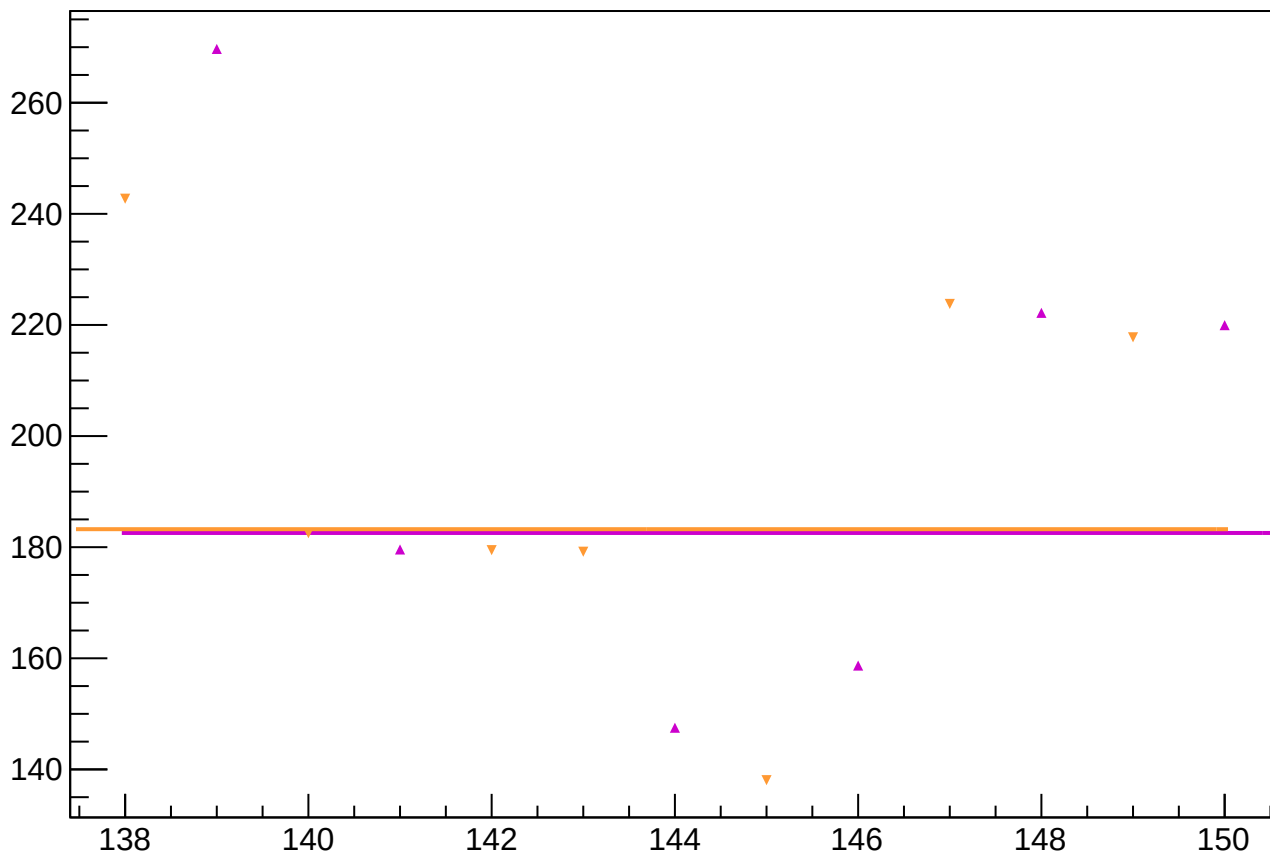
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -76.241+/-84.424  $\chi^2/\text{NDF}$ :3.5/5

Out: 248.392+/-84.021  $\chi^2/\text{NDF}$ :18.4/6

All: 86.852+/-59.554  $\chi^2/\text{NDF}$ : 29.3/12

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 183.240+/-0.059  $\chi^2/\text{NDF}$ :340333.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 182.559+/-0.060  $\chi^2/\text{NDF}$ :383312.8/5

Left: 182.901+/-0.042  $\chi^2/\text{NDF}$ : 723711.3/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

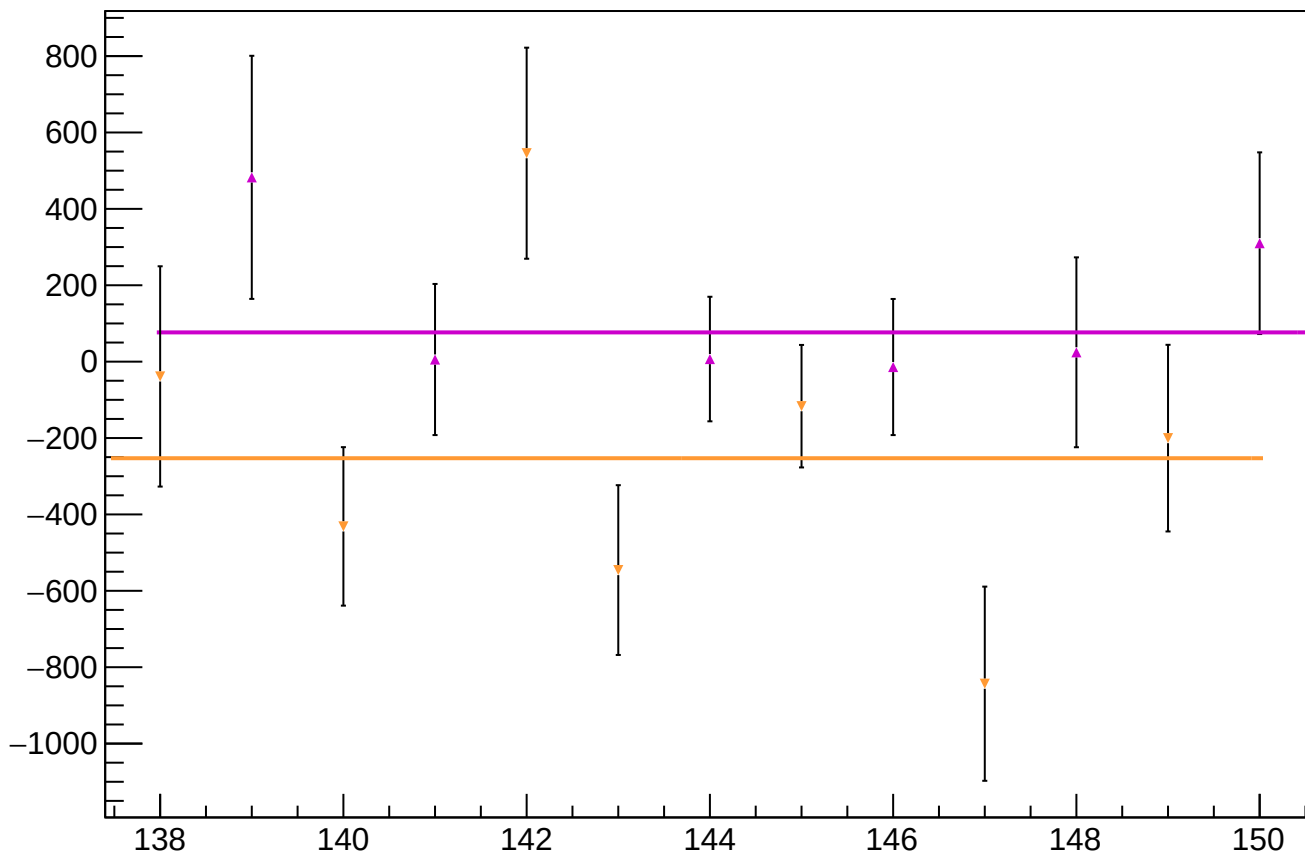
In: 182.559+/-0.060  $\chi^2/\text{NDF}$ :383312.8/5

Out: 183.240+/-0.059  $\chi^2/\text{NDF}$ :340333.1/6

All: 182.901+/-0.042  $\chi^2/\text{NDF}$ : 723711.3/12



asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -252.840+/-84.606  $\chi^2/\text{NDF}$ :17.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 76.584+/-85.005  $\chi^2/\text{NDF}$ :3.2/5

Left: -88.903+/-59.966  $\chi^2/\text{NDF}$ : 28.3/12

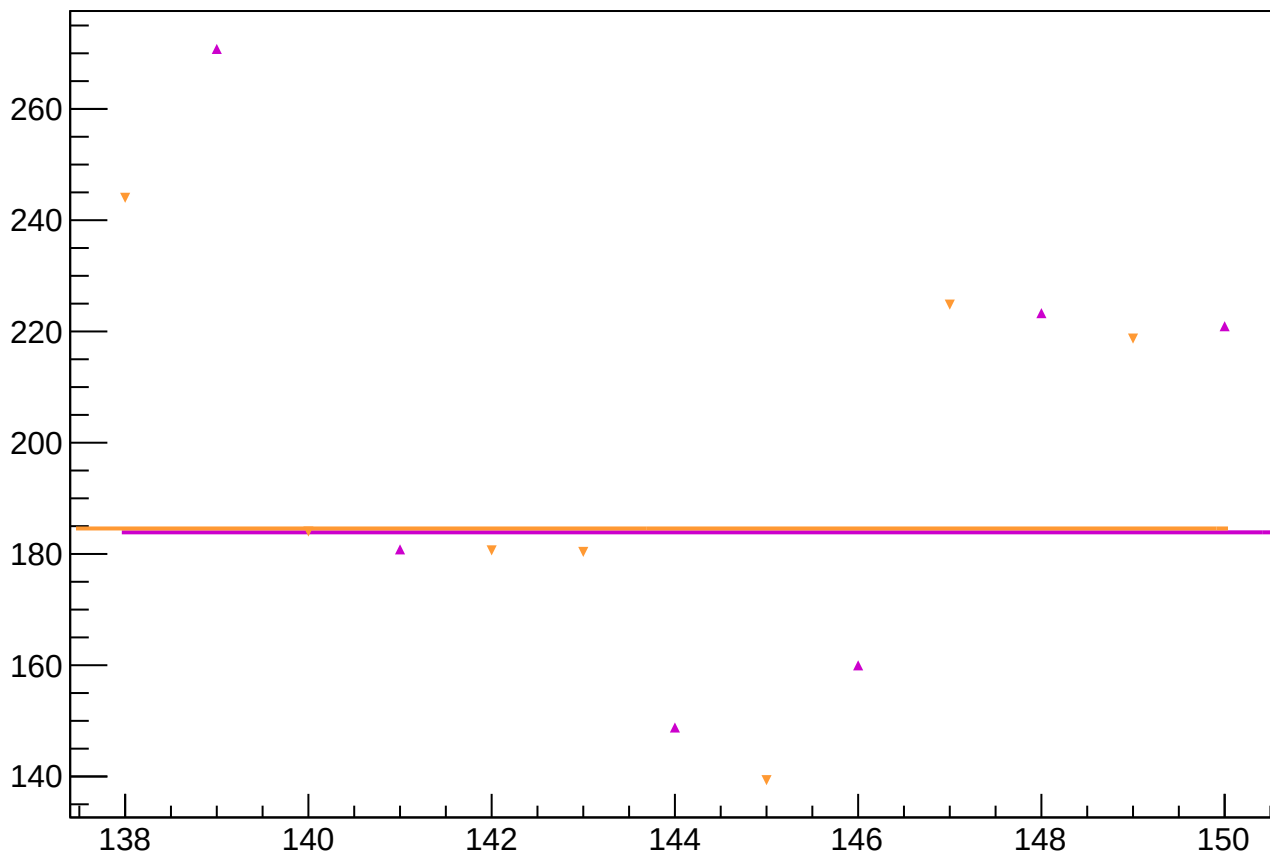
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 76.584+/-85.005  $\chi^2/\text{NDF}$ :3.2/5

Out: -252.840+/-84.606  $\chi^2/\text{NDF}$ :17.5/6

All: -88.903+/-59.966  $\chi^2/\text{NDF}$ : 28.3/12

asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 184.584+/-0.060  $\chi^2/\text{NDF}$ : 334455.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 183.889+/-0.060  $\chi^2/\text{NDF}$ : 376973.2/5

Left: 184.238+/-0.042  $\chi^2/\text{NDF}$ : 711496.2/12

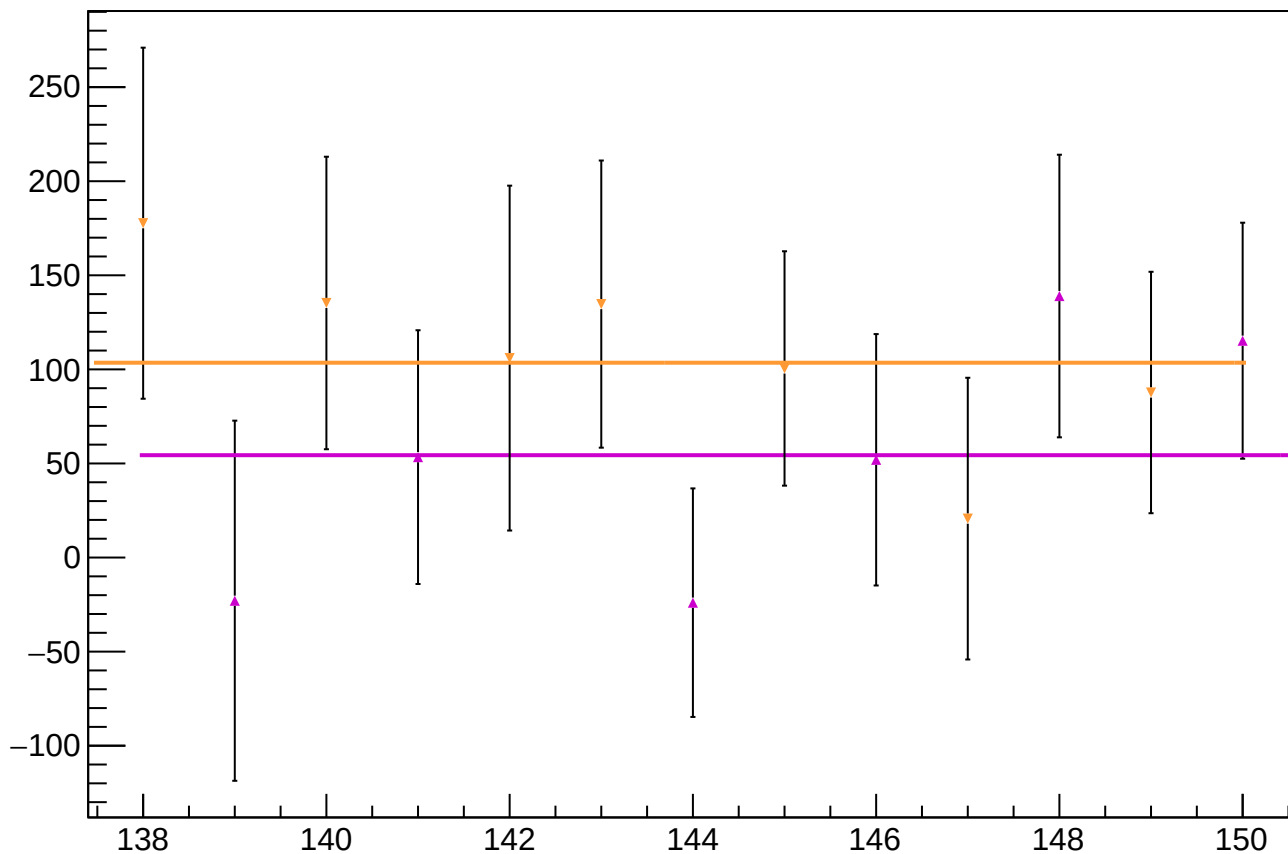
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 183.889+/-0.060  $\chi^2/\text{NDF}$ : 376973.2/5

Out: 184.584+/-0.060  $\chi^2/\text{NDF}$ : 334455.9/6

All: 184.238+/-0.042  $\chi^2/\text{NDF}$ : 711496.2/12

reg\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 103.539 $\pm$ 28.279  $\chi^2$ /NDF:2.3/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 54.393 $\pm$ 28.218  $\chi^2$ /NDF:4.5/5

Left: 78.913 $\pm$ 19.975  $\chi^2$ /NDF: 8.3/12

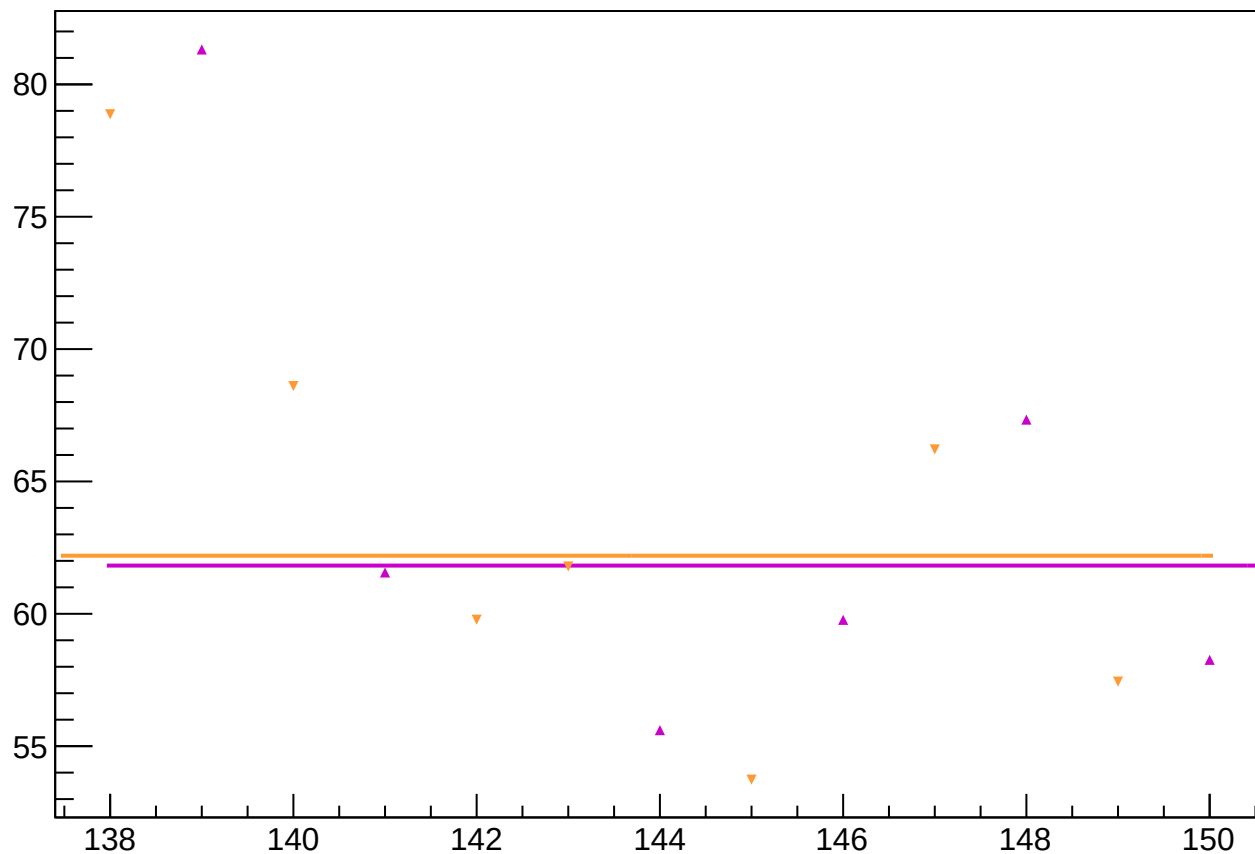
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 54.393 $\pm$ 28.218  $\chi^2$ /NDF:4.5/5

Out: 103.539 $\pm$ 28.279  $\chi^2$ /NDF:2.3/6

All: 78.913 $\pm$ 19.975  $\chi^2$ /NDF: 8.3/12

reg\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 62.195+/-0.020  $\chi^2/\text{NDF}$ :132605.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 61.822+/-0.020  $\chi^2/\text{NDF}$ :123116.2/5

Left: 62.008+/-0.014  $\chi^2/\text{NDF}$ : 255896.3/12

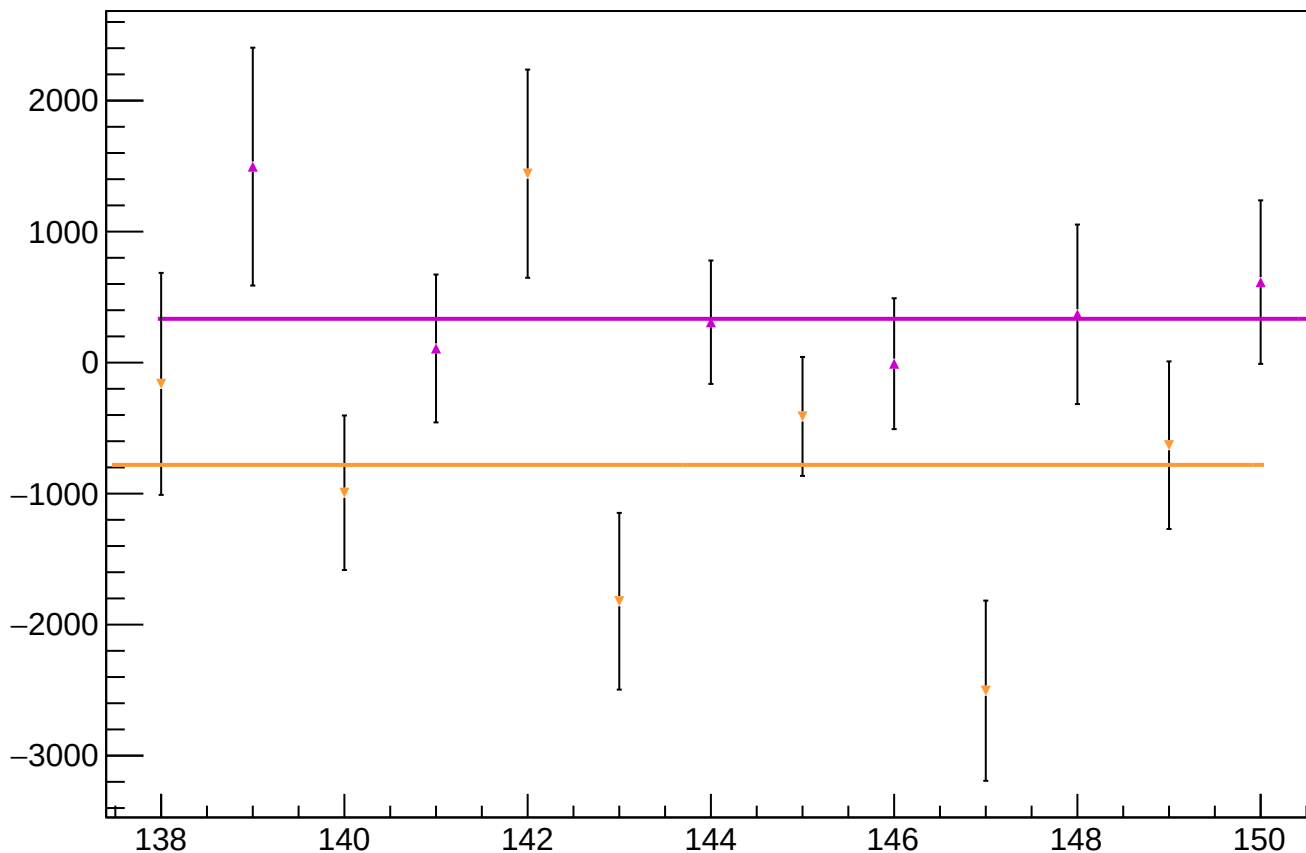
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 61.822+/-0.020  $\chi^2/\text{NDF}$ :123116.2/5

Out: 62.195+/-0.020  $\chi^2/\text{NDF}$ :132605.7/6

All: 62.008+/-0.014  $\chi^2/\text{NDF}$ : 255896.3/12

asym\_sam\_12345678\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -780.711+/-239.309  $\chi^2/\text{NDF}$ :17.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 334.317+/-238.599  $\chi^2/\text{NDF}$ :2.5/5

Left: -221.540+/-168.965  $\chi^2/\text{NDF}$ : 31.2/12

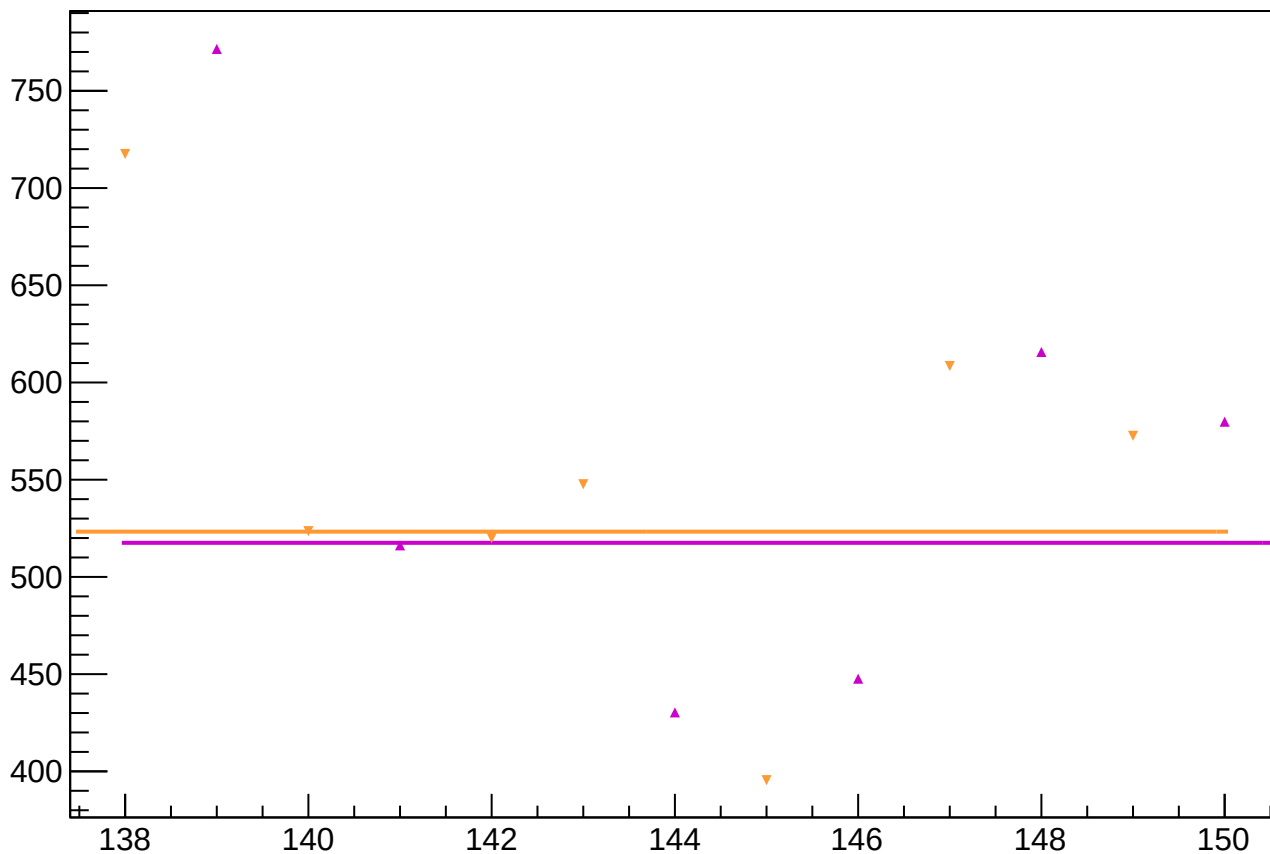
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 334.317+/-238.599  $\chi^2/\text{NDF}$ :2.5/5

Out: -780.711+/-239.309  $\chi^2/\text{NDF}$ :17.9/6

All: -221.540+/-168.965  $\chi^2/\text{NDF}$ : 31.2/12

asym\_sam\_12345678\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 523.290+/-0.169  $\chi^2/\text{NDF}$ :308903.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 517.542+/-0.169  $\chi^2/\text{NDF}$ :325268.0/5

Left: 520.407+/-0.119  $\chi^2/\text{NDF}$ : 634750.5/12

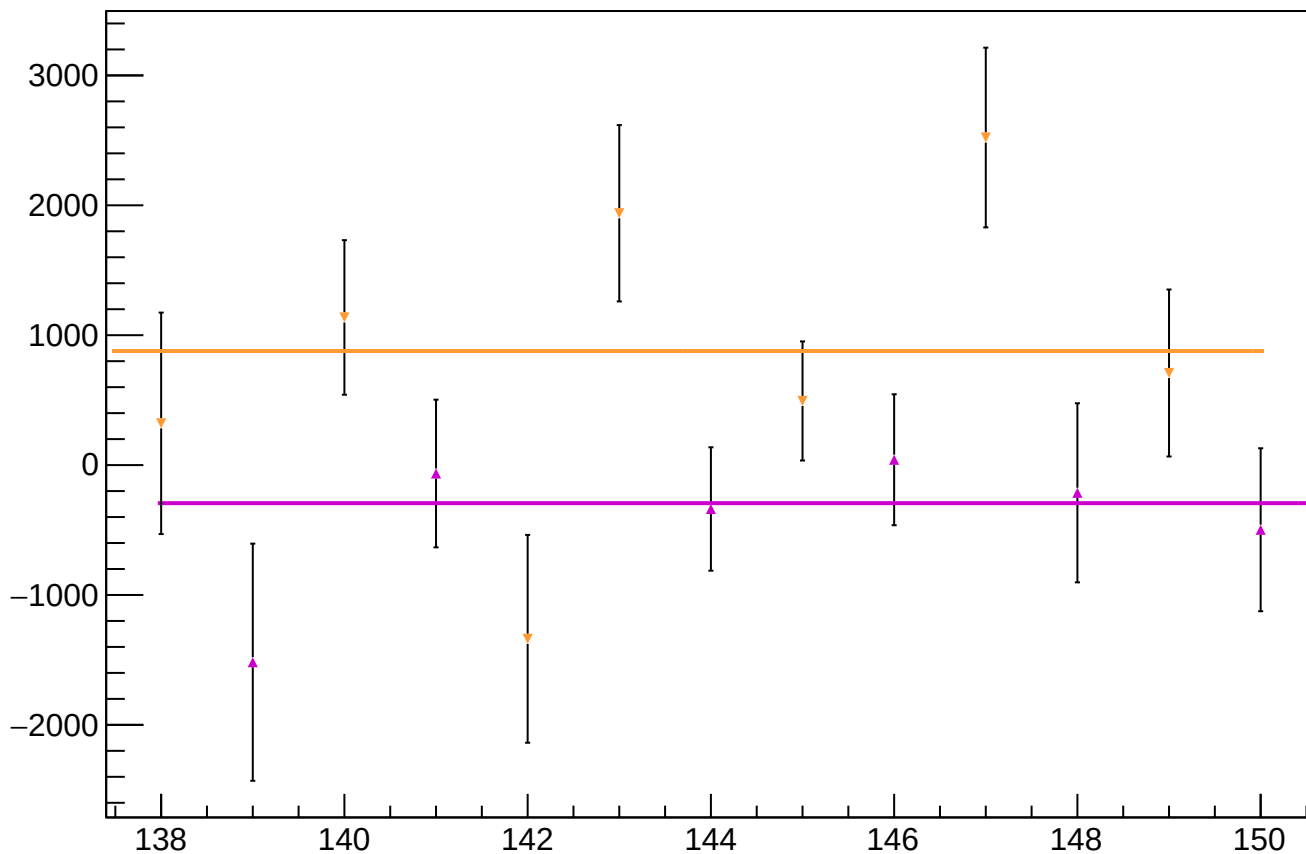
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 517.542+/-0.169  $\chi^2/\text{NDF}$ :325268.0/5

Out: 523.290+/-0.169  $\chi^2/\text{NDF}$ :308903.7/6

All: 520.407+/-0.119  $\chi^2/\text{NDF}$ : 634750.5/12

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 878.158+/-241.113  $\chi^2/\text{NDF}$ :17.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -293.110+/-240.400  $\chi^2/\text{NDF}$ :2.5/5

Left: 290.791+/-170.240  $\chi^2/\text{NDF}$ : 31.5/12

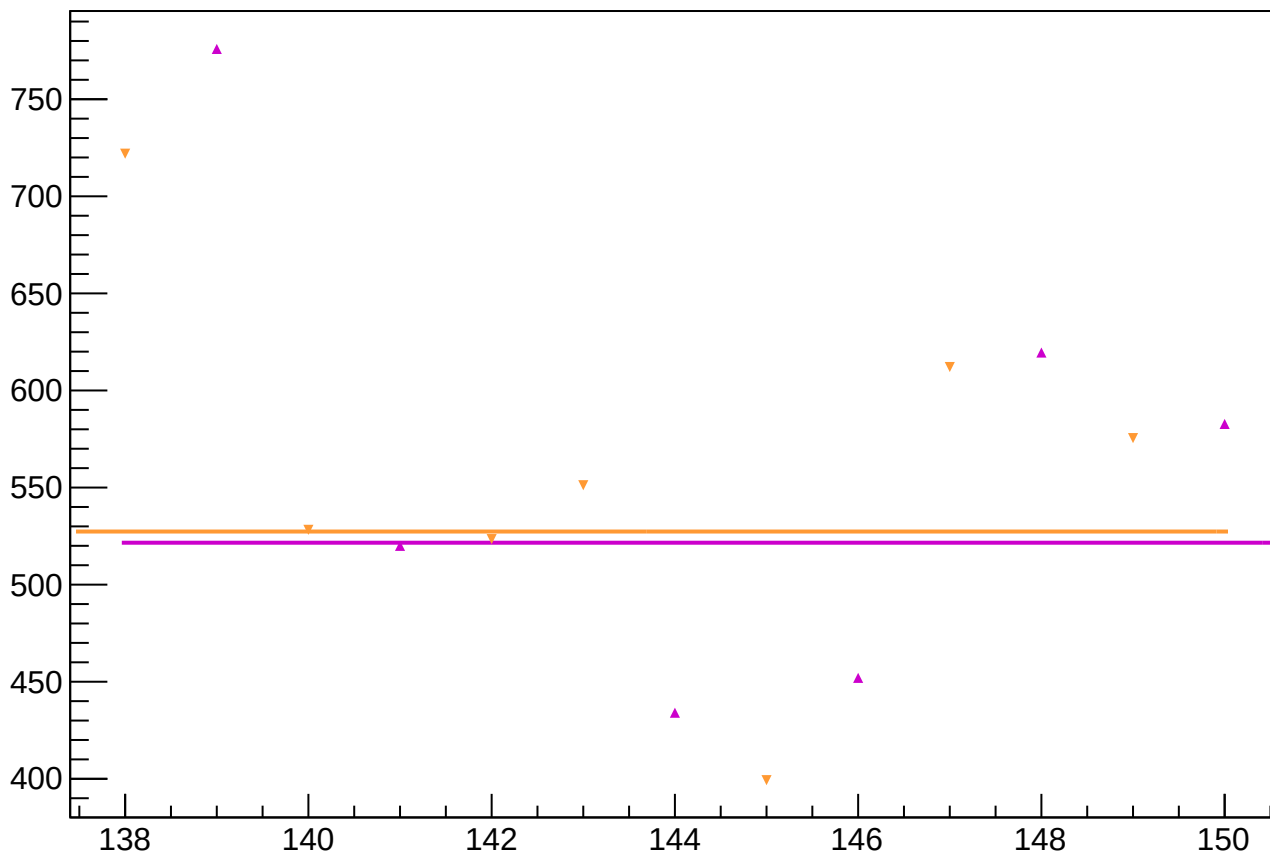
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -293.110+/-240.400  $\chi^2/\text{NDF}$ :2.5/5

Out: 878.158+/-241.113  $\chi^2/\text{NDF}$ :17.1/6

All: 290.791+/-170.240  $\chi^2/\text{NDF}$ : 31.5/12

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 527.357+/-0.170  $\chi^2/\text{NDF}$ :304003.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 521.594+/-0.170  $\chi^2/\text{NDF}$ :320619.9/5

Left: 524.467+/-0.120  $\chi^2/\text{NDF}$ : 625196.6/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

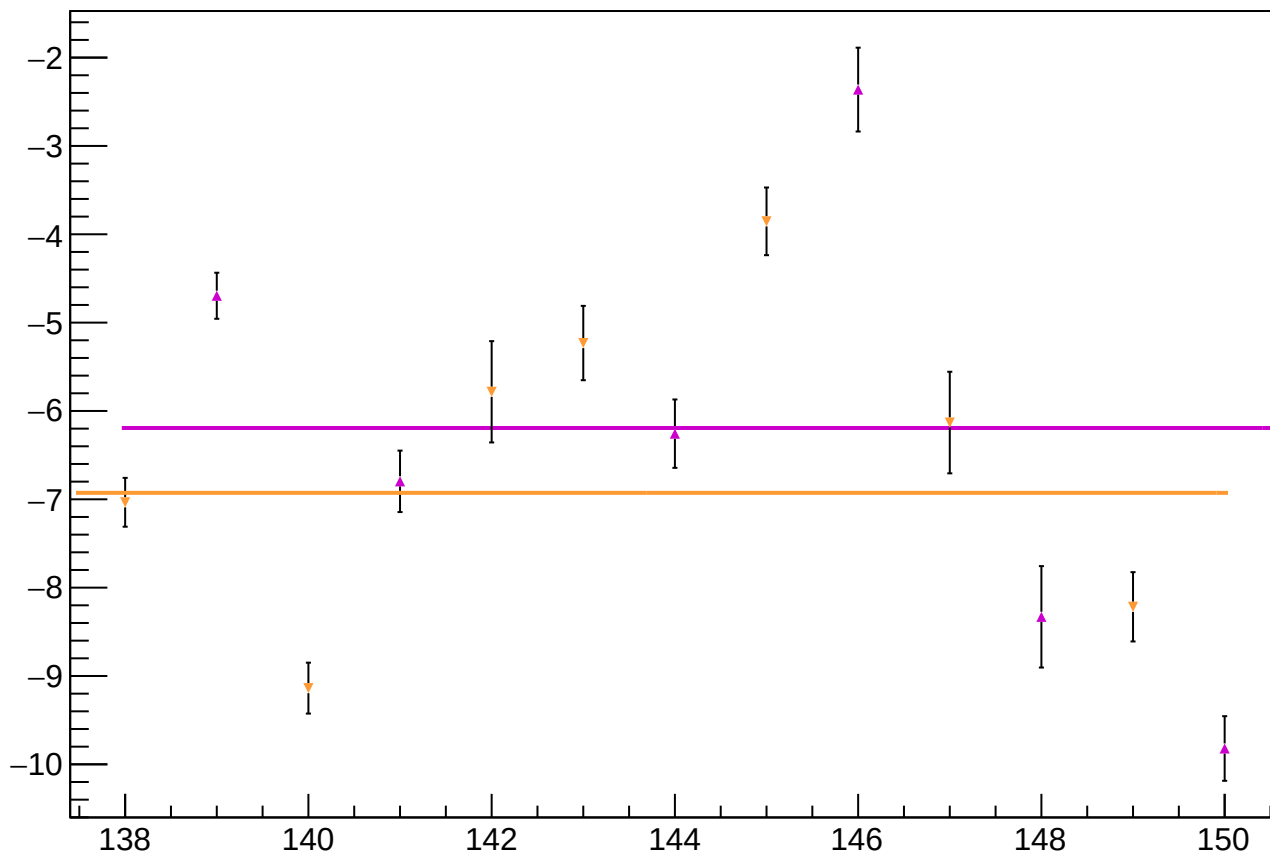
In: 521.594+/-0.170  $\chi^2/\text{NDF}$ :320619.9/5

Out: 527.357+/-0.170  $\chi^2/\text{NDF}$ :304003.8/6

All: 524.467+/-0.120  $\chi^2/\text{NDF}$ : 625196.6/12



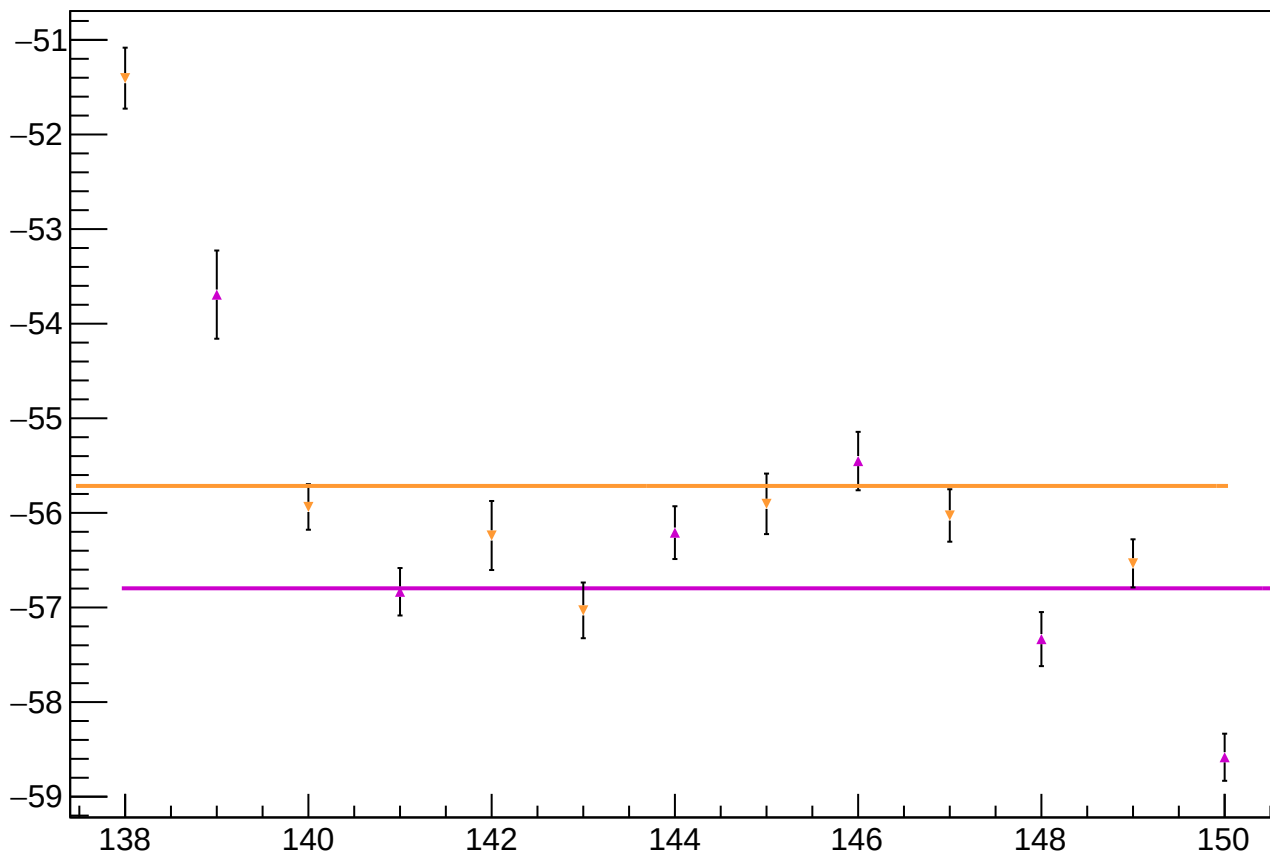
reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.927+/-0.141  $\chi^2/\text{NDF}$ :156.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.193+/-0.150  $\chi^2/\text{NDF}$ :213.5/5

Left: -6.581+/-0.103  $\chi^2/\text{NDF}$ : 382.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.193+/-0.150  $\chi^2/\text{NDF}$ :213.5/5  
 Out: -6.927+/-0.141  $\chi^2/\text{NDF}$ :156.3/6  
 All: -6.581+/-0.103  $\chi^2/\text{NDF}$ : 382.5/12

reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-55.715 \pm 0.109$   $\chi^2/\text{NDF}$ : 213.8/6

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $-56.797 \pm 0.118$   $\chi^2/\text{NDF}$ : 122.7/5

Left:  $-56.215 \pm 0.080$   $\chi^2/\text{NDF}$ : 382.0/12

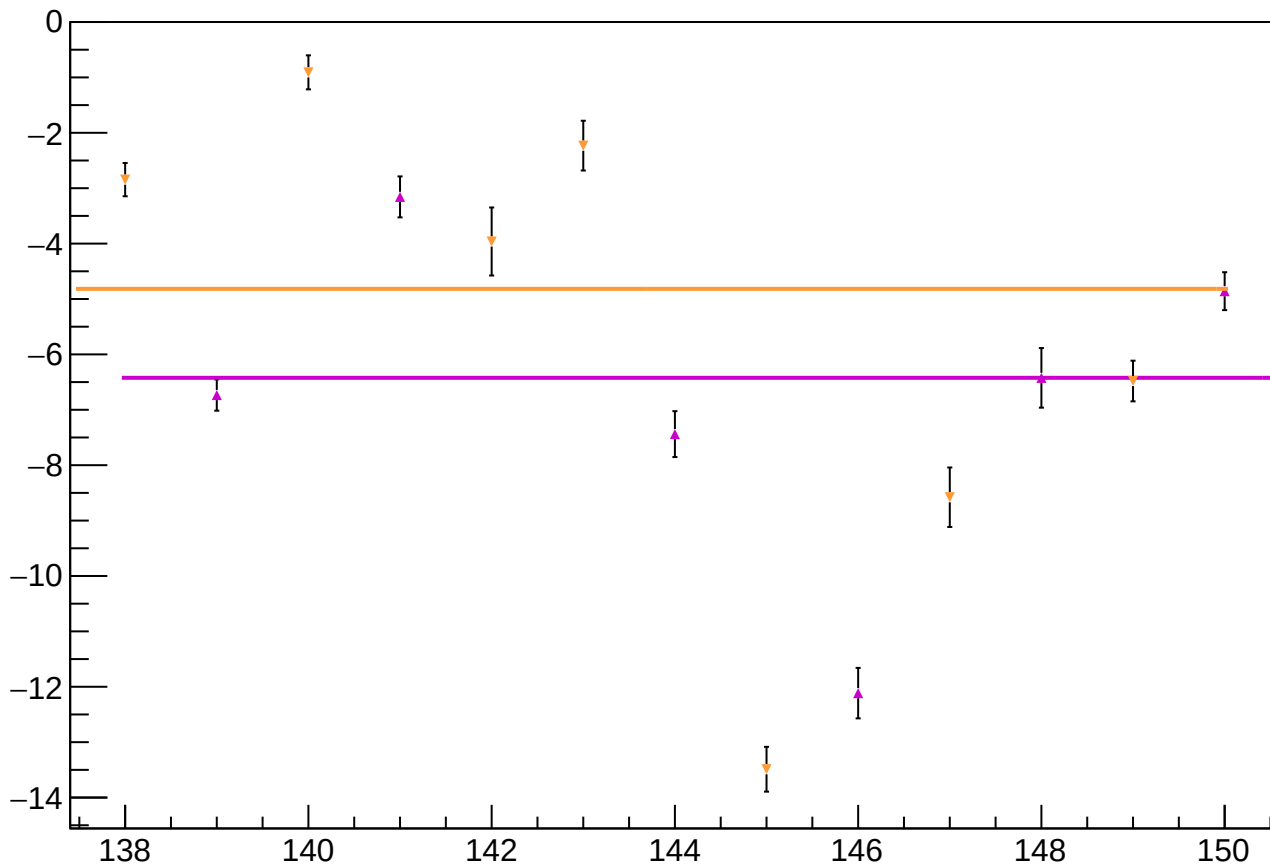
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

In:  $-56.797 \pm 0.118$   $\chi^2/\text{NDF}$ : 122.7/5

Out:  $-55.715 \pm 0.109$   $\chi^2/\text{NDF}$ : 213.8/6

All:  $-56.215 \pm 0.080$   $\chi^2/\text{NDF}$ : 382.0/12

reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -4.817+/-0.147  $\chi^2/\text{NDF}$ : 769.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -6.423+/-0.153  $\chi^2/\text{NDF}$ : 262.2/5

Left: -5.585+/-0.106  $\chi^2/\text{NDF}$ : 1089.0/12

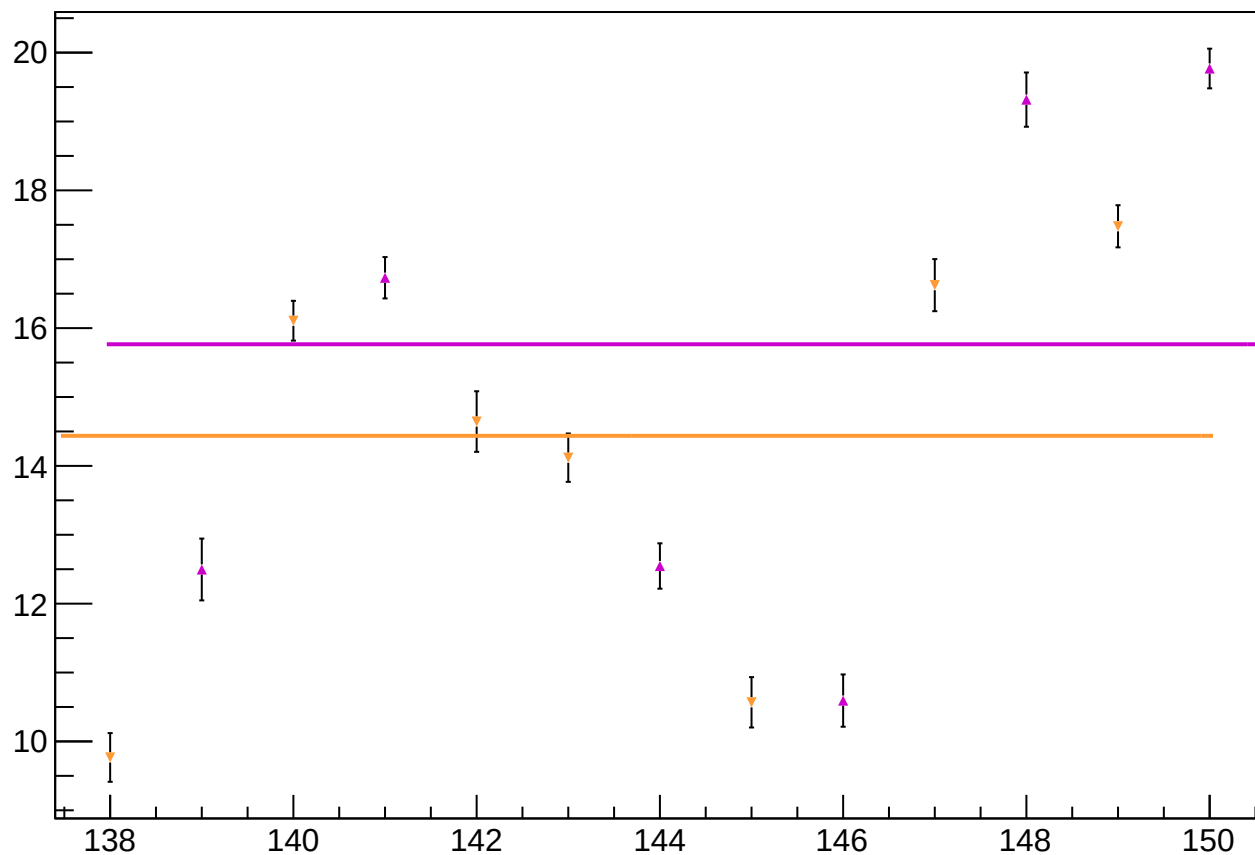
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6.423+/-0.153  $\chi^2/\text{NDF}$ : 262.2/5

Out: -4.817+/-0.147  $\chi^2/\text{NDF}$ : 769.7/6

All: -5.585+/-0.106  $\chi^2/\text{NDF}$ : 1089.0/12

reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.437+/-0.131  $\chi^2/\text{NDF}$ : 453.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 15.766+/-0.140  $\chi^2/\text{NDF}$ : 619.3/5

Left: 15.054+/-0.096  $\chi^2/\text{NDF}$ : 1120.6/12

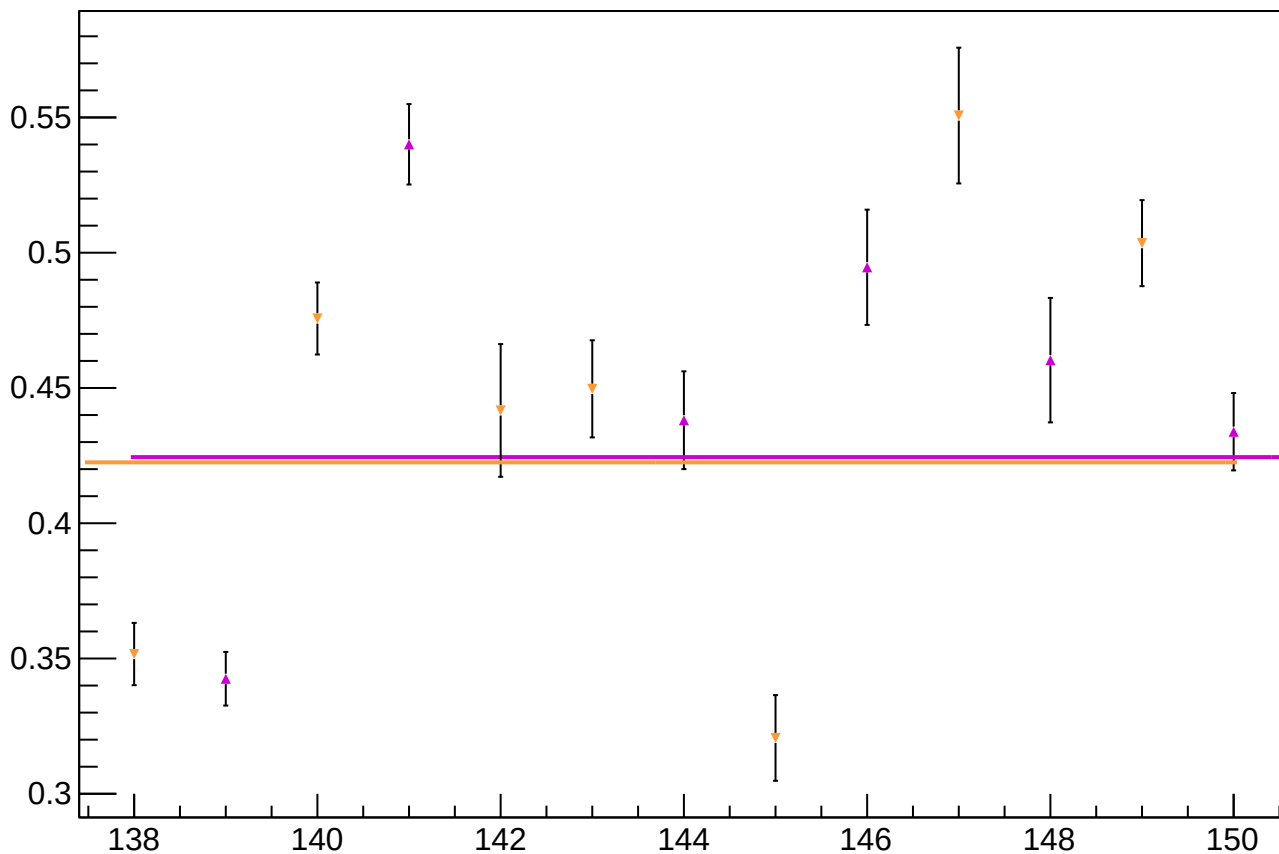
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 15.766+/-0.140  $\chi^2/\text{NDF}$ : 619.3/5

Out: 14.437+/-0.131  $\chi^2/\text{NDF}$ : 453.3/6

All: 15.054+/-0.096  $\chi^2/\text{NDF}$ : 1120.6/12

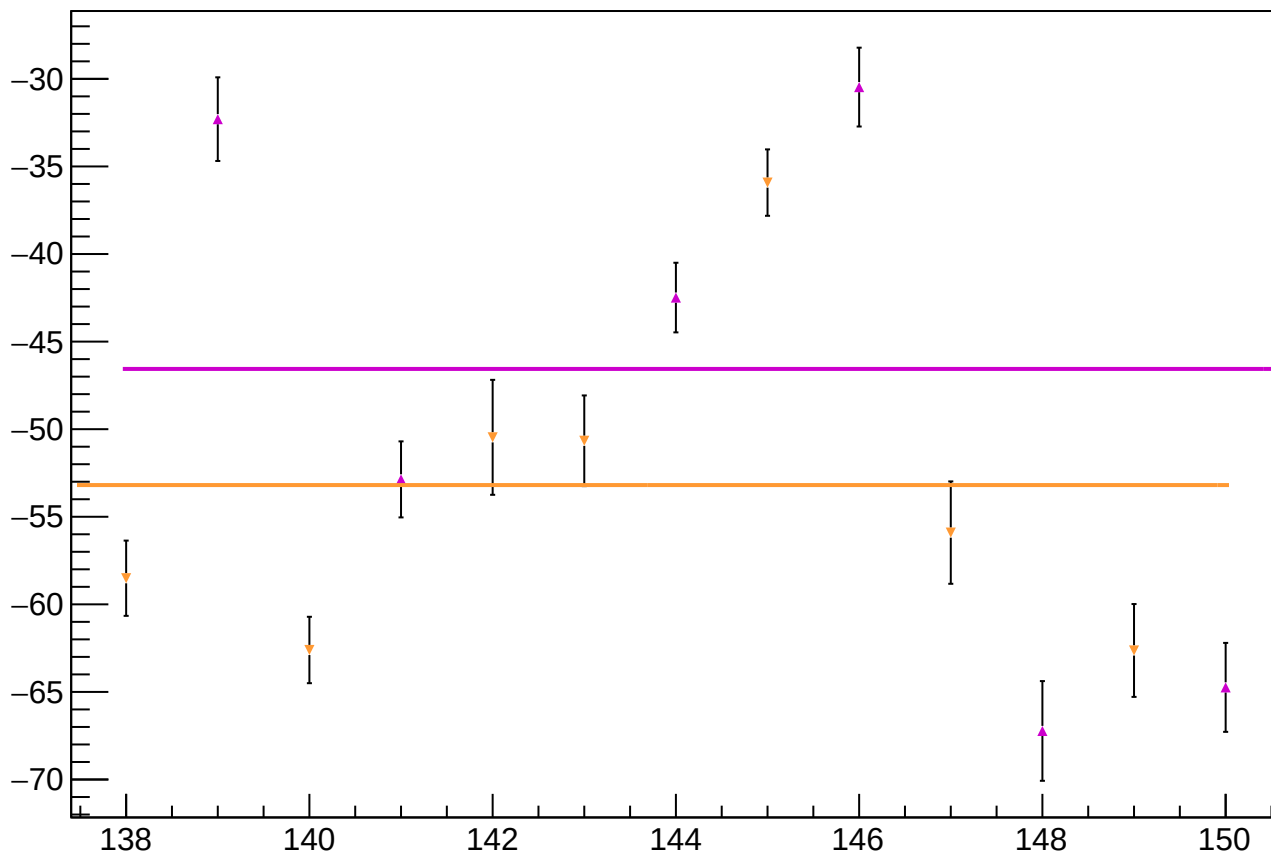
reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.423 $\pm$ 0.006  $\chi^2$ /NDF:150.1/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.424 $\pm$ 0.006  $\chi^2$ /NDF:143.1/5

Left: 0.423 $\pm$ 0.004  $\chi^2$ /NDF: 293.2/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.424 $\pm$ 0.006  $\chi^2$ /NDF:143.1/5  
 Out: 0.423 $\pm$ 0.006  $\chi^2$ /NDF:150.1/6  
 All: 0.423 $\pm$ 0.004  $\chi^2$ /NDF: 293.2/12

reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -53.190+/-0.886  $\chi^2/\text{NDF}$ :129.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -46.560+/-0.946  $\chi^2/\text{NDF}$ :203.4/5

Left: -50.094+/-0.647  $\chi^2/\text{NDF}$ : 358.6/12

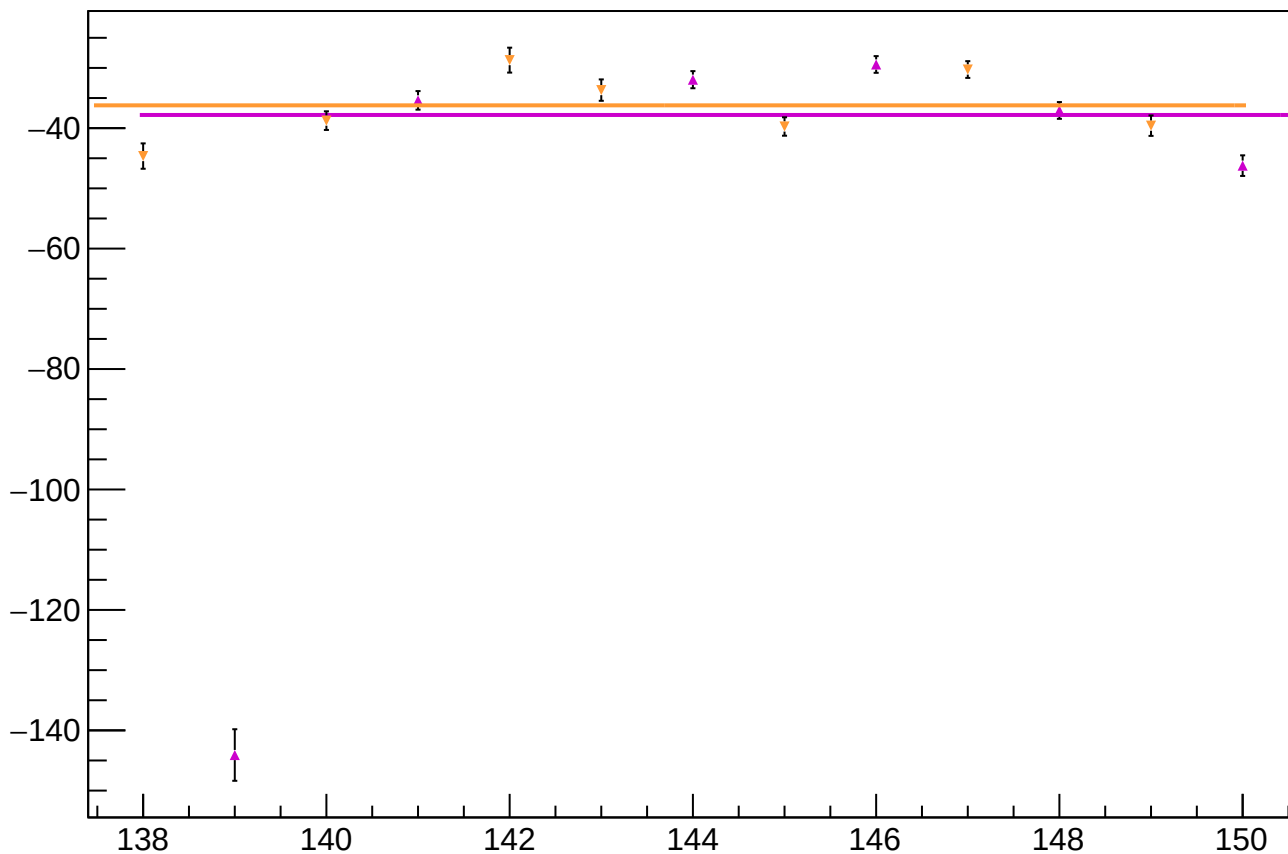
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -46.560+/-0.946  $\chi^2/\text{NDF}$ :203.4/5

Out: -53.190+/-0.886  $\chi^2/\text{NDF}$ :129.0/6

All: -50.094+/-0.647  $\chi^2/\text{NDF}$ : 358.6/12

reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -36.213+/-0.634  $\chi^2/\text{NDF}$ : 61.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -37.811+/-0.653  $\chi^2/\text{NDF}$ : 696.8/5

Left: -36.990+/-0.455  $\chi^2/\text{NDF}$ : 761.2/12

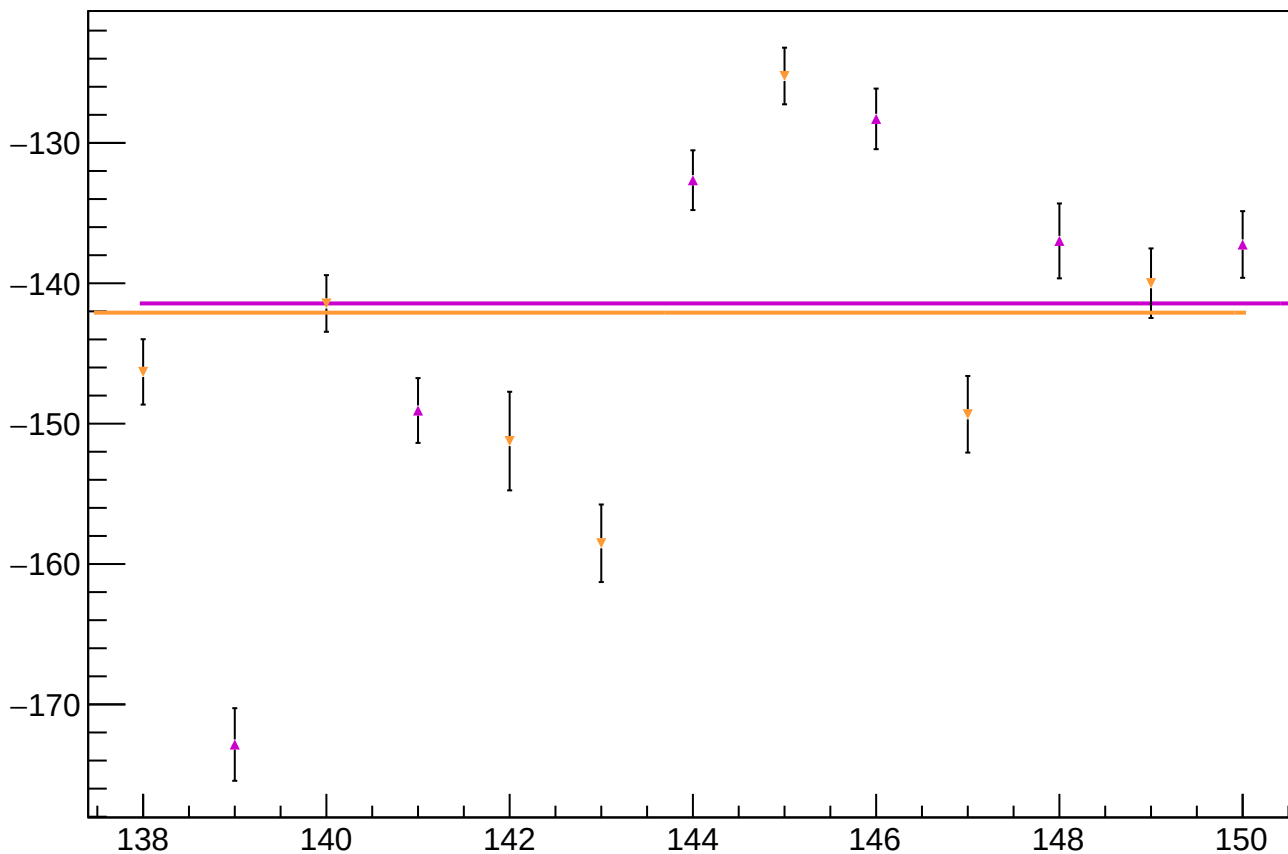
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.811+/-0.653  $\chi^2/\text{NDF}$ : 696.8/5

Out: -36.213+/-0.634  $\chi^2/\text{NDF}$ : 61.4/6

All: -36.990+/-0.455  $\chi^2/\text{NDF}$ : 761.2/12

reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -142.093+/-0.919  $\chi^2/\text{NDF}$ :123.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -141.435+/-0.958  $\chi^2/\text{NDF}$ :218.5/5

Left: -141.778+/-0.663  $\chi^2/\text{NDF}$ : 341.8/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

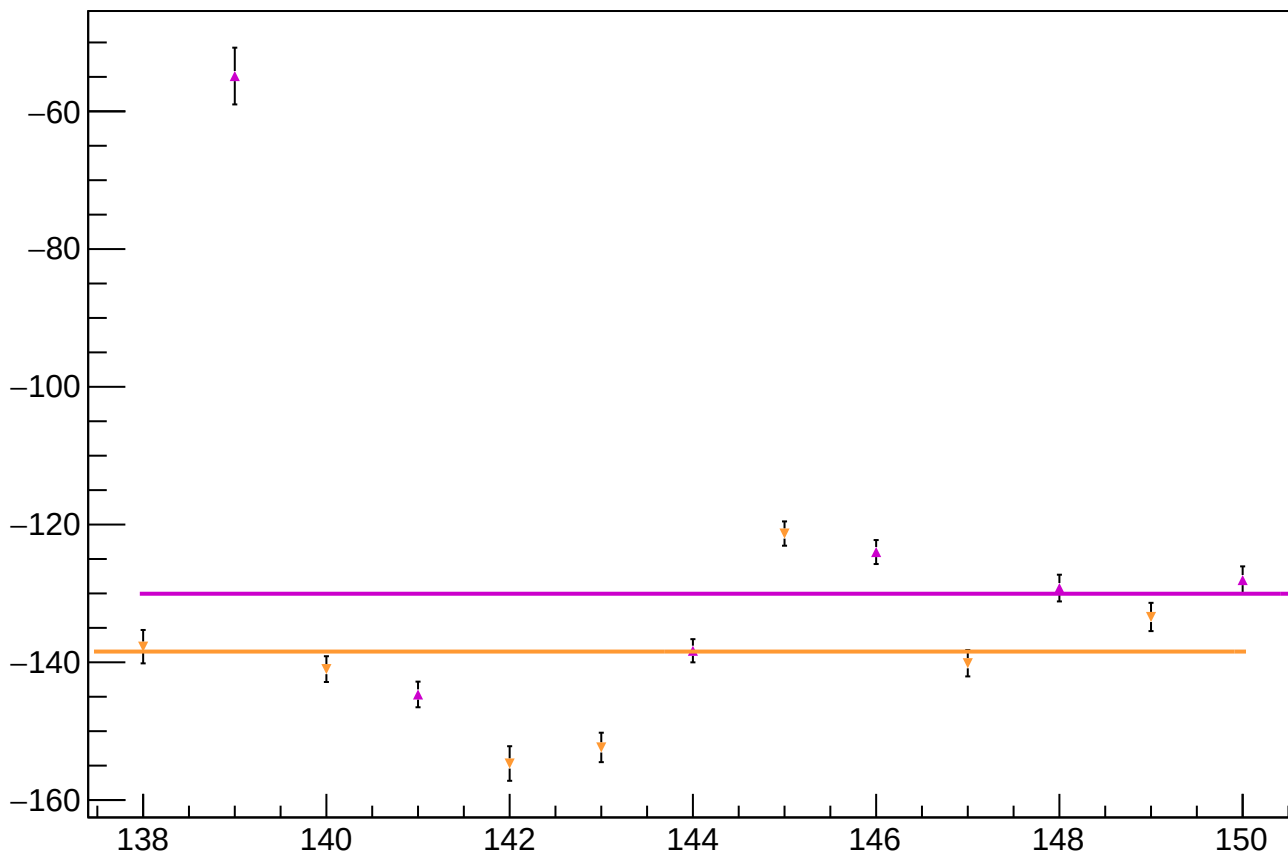
In: -141.435+/-0.958  $\chi^2/\text{NDF}$ :218.5/5

Out: -142.093+/-0.919  $\chi^2/\text{NDF}$ :123.1/6

All: -141.778+/-0.663  $\chi^2/\text{NDF}$ : 341.8/12



reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -138.440+/-0.775  $\chi^2/\text{NDF}$ :187.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -130.044+/-0.803  $\chi^2/\text{NDF}$ :432.0/5

Left: -134.394+/-0.558  $\chi^2/\text{NDF}$ : 676.0/12

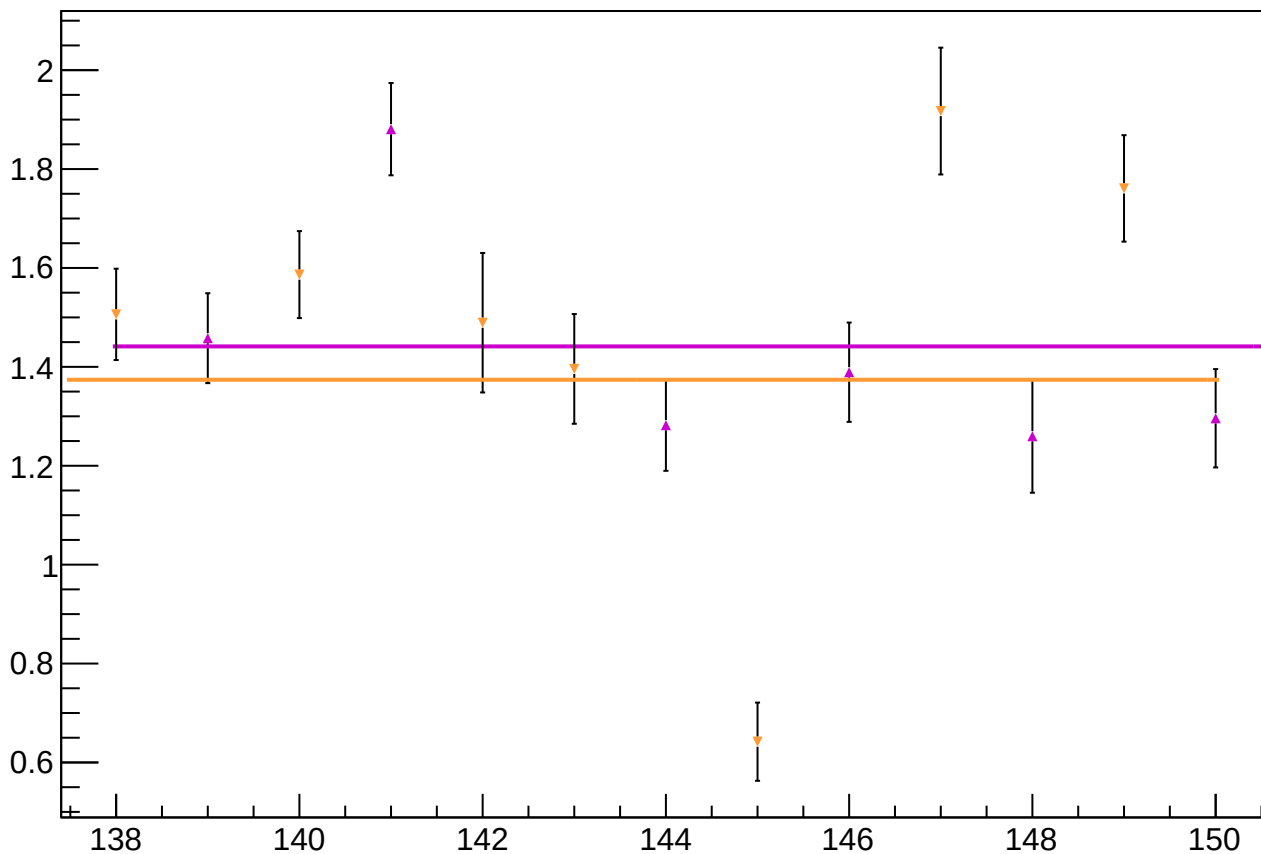
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -130.044+/-0.803  $\chi^2/\text{NDF}$ :432.0/5

Out: -138.440+/-0.775  $\chi^2/\text{NDF}$ :187.4/6

All: -134.394+/-0.558  $\chi^2/\text{NDF}$ : 676.0/12

reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1.374+/-0.038  $\chi^2/\text{NDF}$ :125.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1.441+/-0.040  $\chi^2/\text{NDF}$ :30.1/5

Left: 1.406+/-0.028  $\chi^2/\text{NDF}$ : 156.8/12

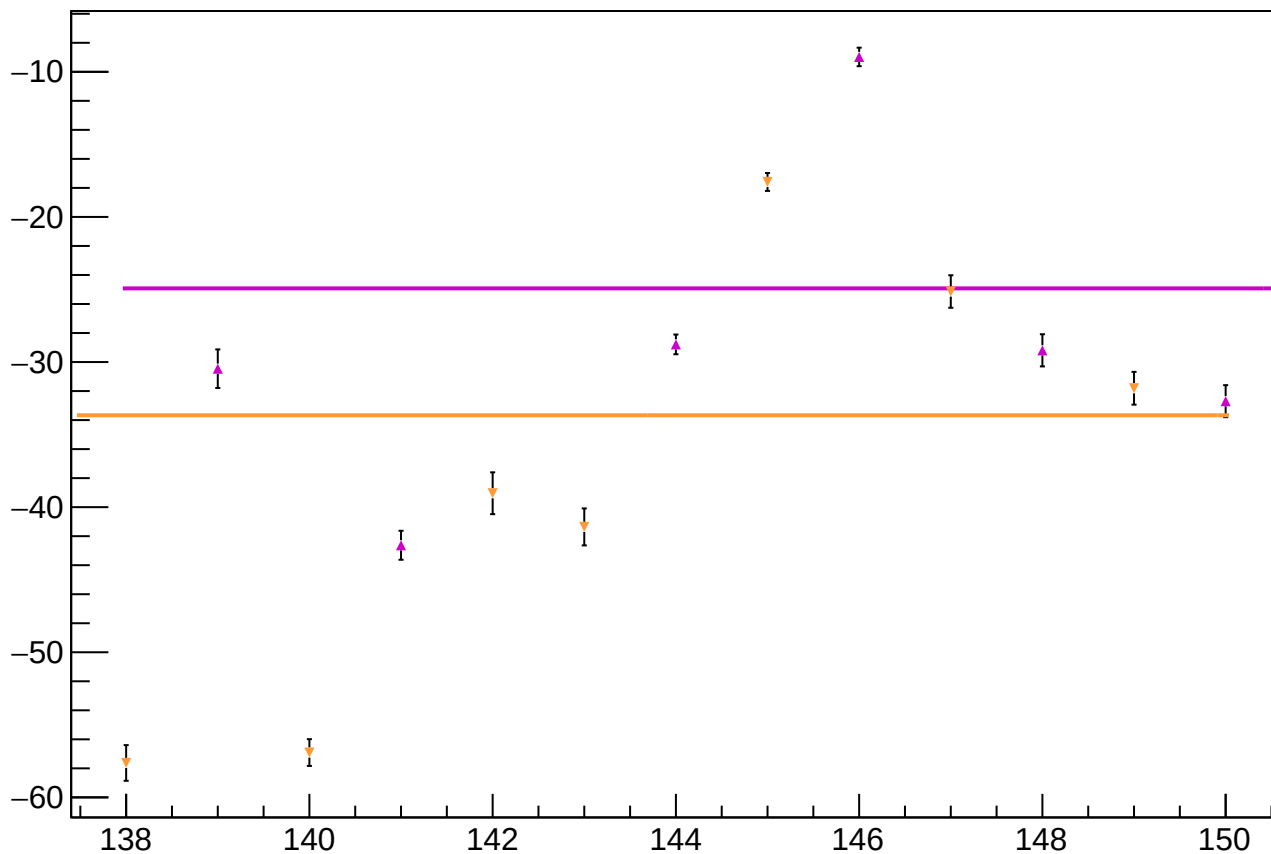
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1.441+/-0.040  $\chi^2/\text{NDF}$ :30.1/5

Out: 1.374+/-0.038  $\chi^2/\text{NDF}$ :125.2/6

All: 1.406+/-0.028  $\chi^2/\text{NDF}$ : 156.8/12

reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.669+/-0.374  $\chi^2/\text{NDF}$ :1804.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -24.924+/-0.357  $\chi^2/\text{NDF}$ :1052.4/5

Left: -29.096+/-0.259  $\chi^2/\text{NDF}$ : 3142.1/12

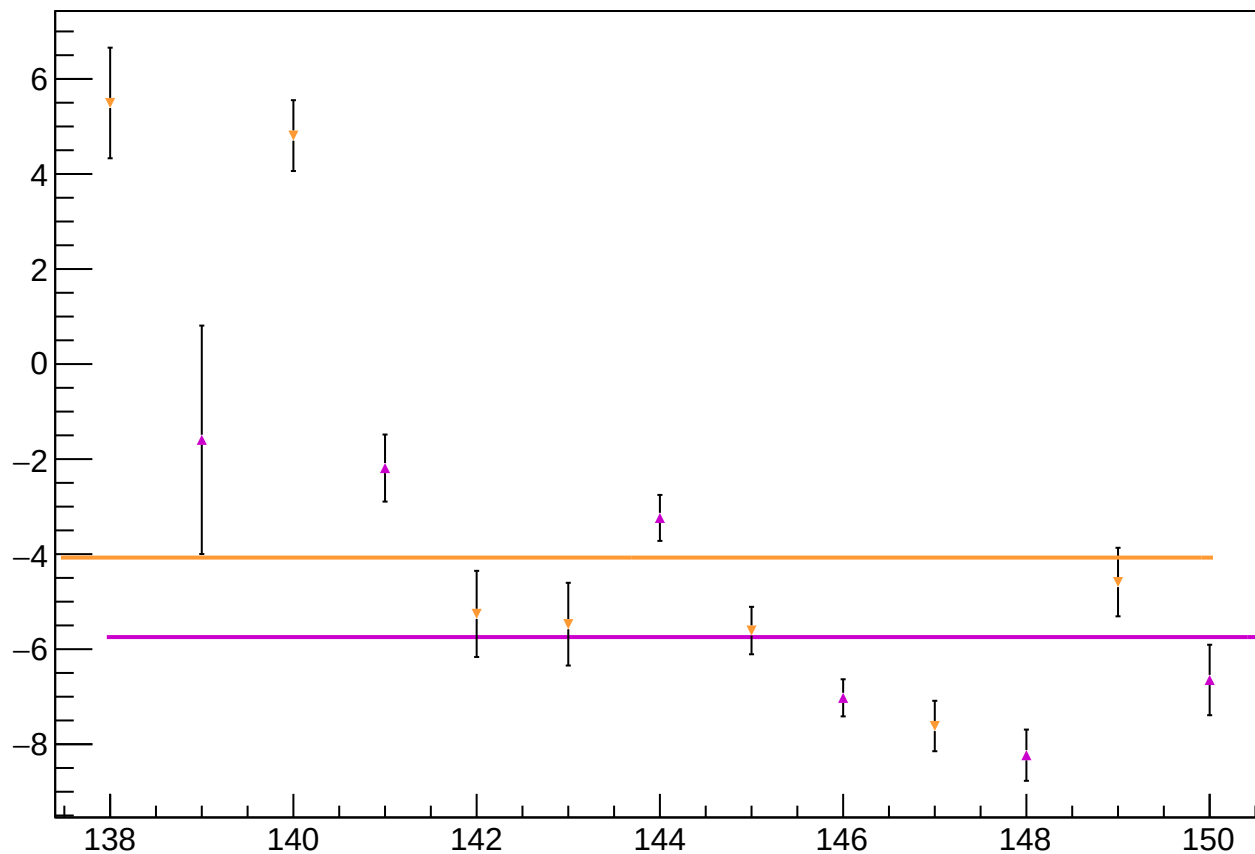
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -24.924+/-0.357  $\chi^2/\text{NDF}$ :1052.4/5

Out: -33.669+/-0.374  $\chi^2/\text{NDF}$ :1804.2/6

All: -29.096+/-0.259  $\chi^2/\text{NDF}$ : 3142.1/12

reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.072 $\pm$ 0.262  $\chi^2$ /NDF:268.4/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -5.745 $\pm$ 0.234  $\chi^2$ /NDF:88.8/5

Left: -5.003 $\pm$ 0.174  $\chi^2$ /NDF: 379.8/12

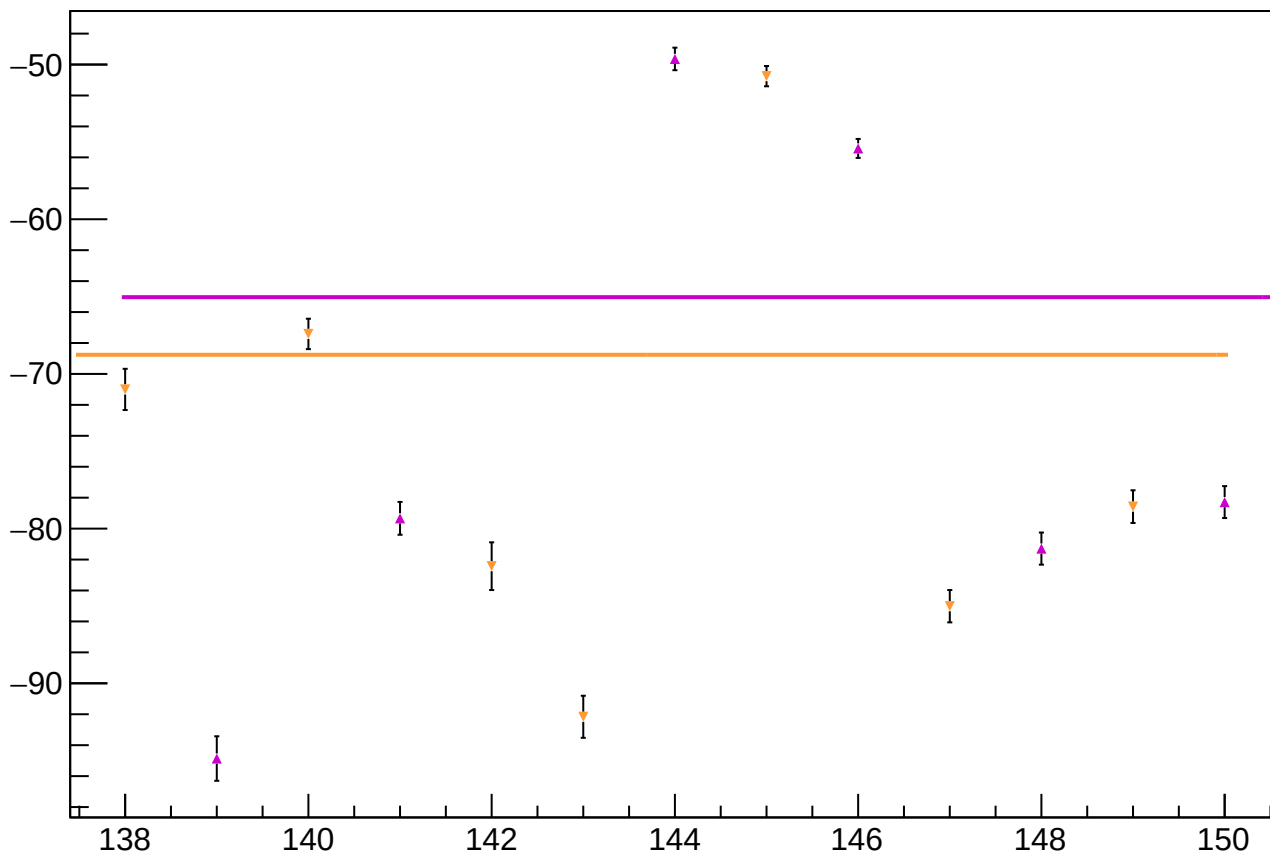
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -5.745 $\pm$ 0.234  $\chi^2$ /NDF:88.8/5

Out: -4.072 $\pm$ 0.262  $\chi^2$ /NDF:268.4/6

All: -5.003 $\pm$ 0.174  $\chi^2$ /NDF: 379.8/12

reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



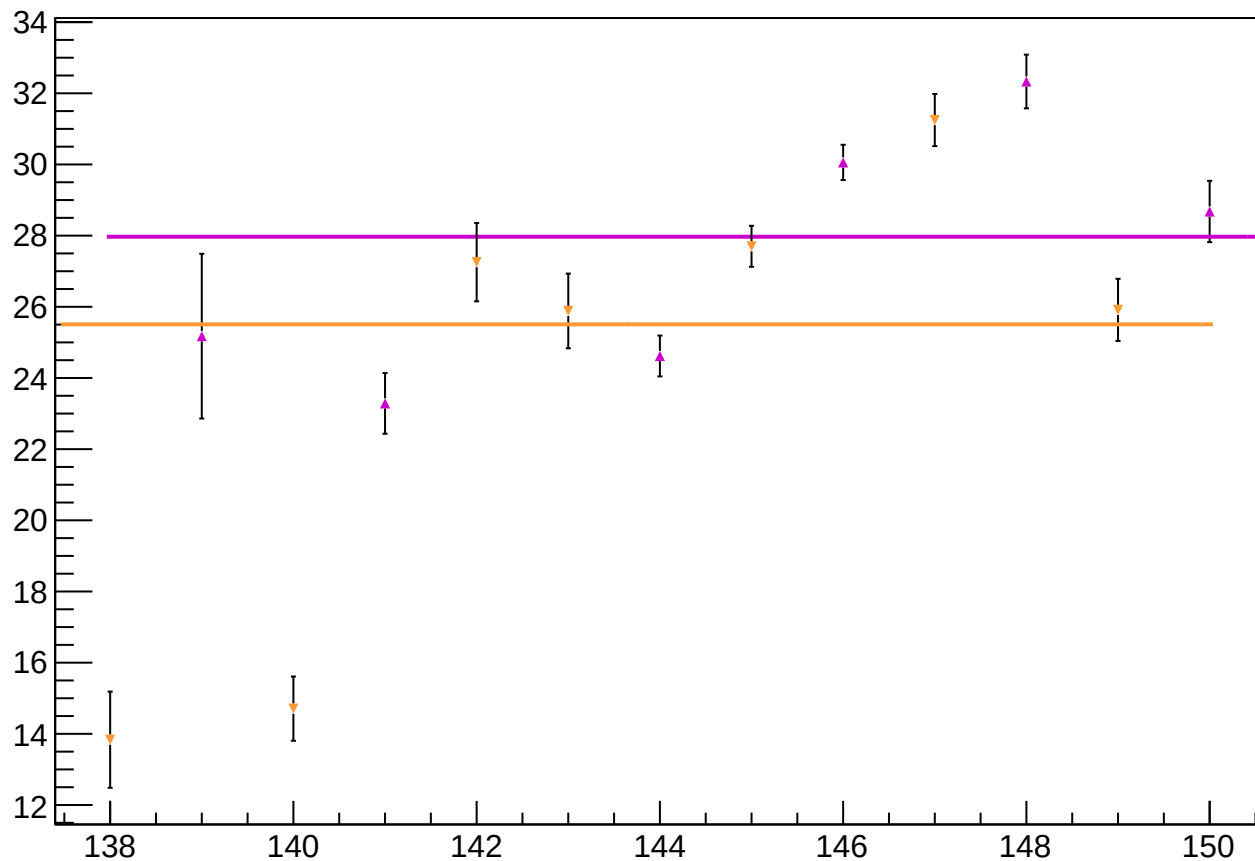
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -68.761+/-0.386  $\chi^2/\text{NDF}$ :1462.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -65.037+/-0.359  $\chi^2/\text{NDF}$ :1713.7/5

Left: -66.760+/-0.263  $\chi^2/\text{NDF}$ : 3226.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -65.037+/-0.359  $\chi^2/\text{NDF}$ :1713.7/5  
 Out: -68.761+/-0.386  $\chi^2/\text{NDF}$ :1462.4/6

All: -66.760+/-0.263  $\chi^2/\text{NDF}$ : 3226.1/12

reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 25.507+/-0.321  $\chi^2/\text{NDF}$ :296.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 27.970+/-0.291  $\chi^2/\text{NDF}$ :117.7/5

Left: 26.858+/-0.216  $\chi^2/\text{NDF}$ : 446.5/12

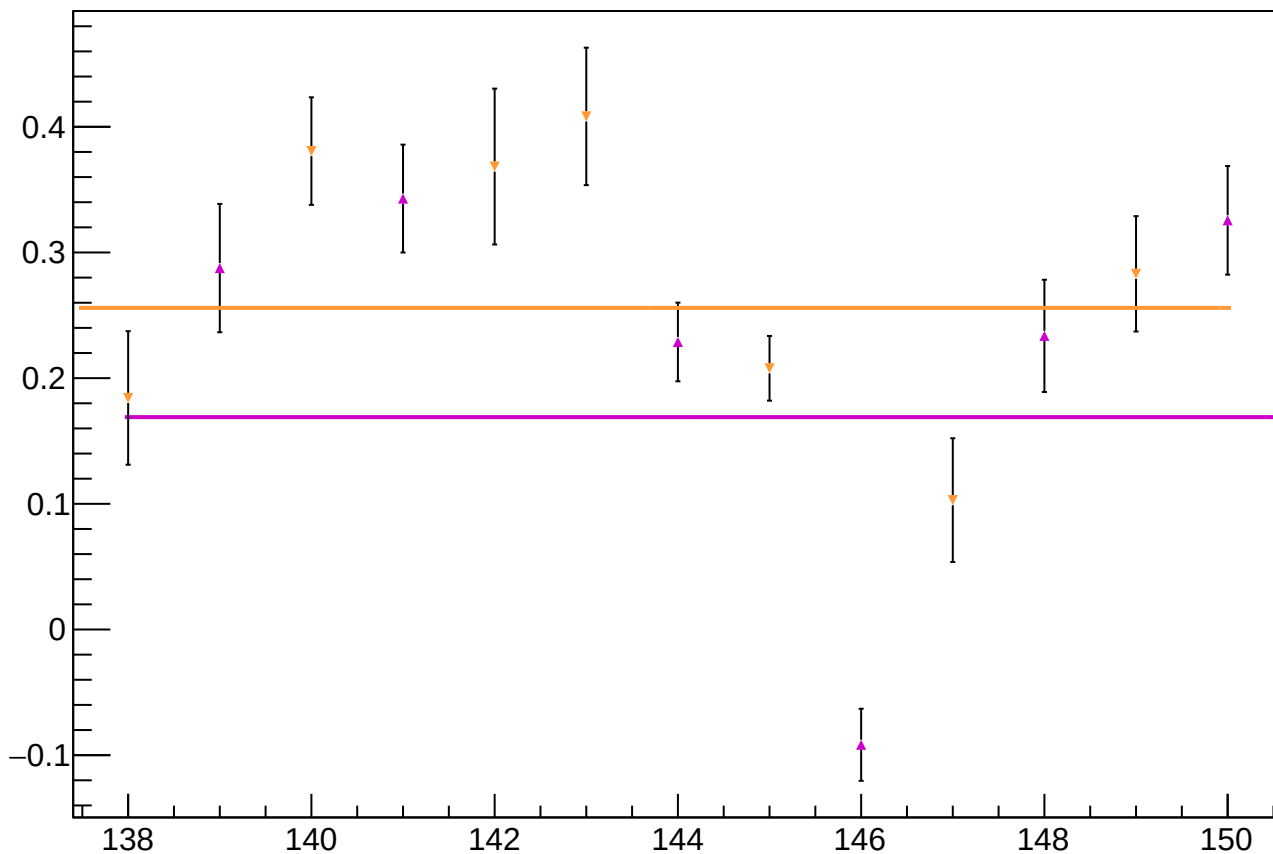
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 27.970+/-0.291  $\chi^2/\text{NDF}$ :117.7/5

Out: 25.507+/-0.321  $\chi^2/\text{NDF}$ :296.5/6

All: 26.858+/-0.216  $\chi^2/\text{NDF}$ : 446.5/12

reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.256+/-0.016  $\chi^2/\text{NDF}$ :34.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.169+/-0.015  $\chi^2/\text{NDF}$ :123.4/5

Left: 0.211+/-0.011  $\chi^2/\text{NDF}$ : 173.5/12

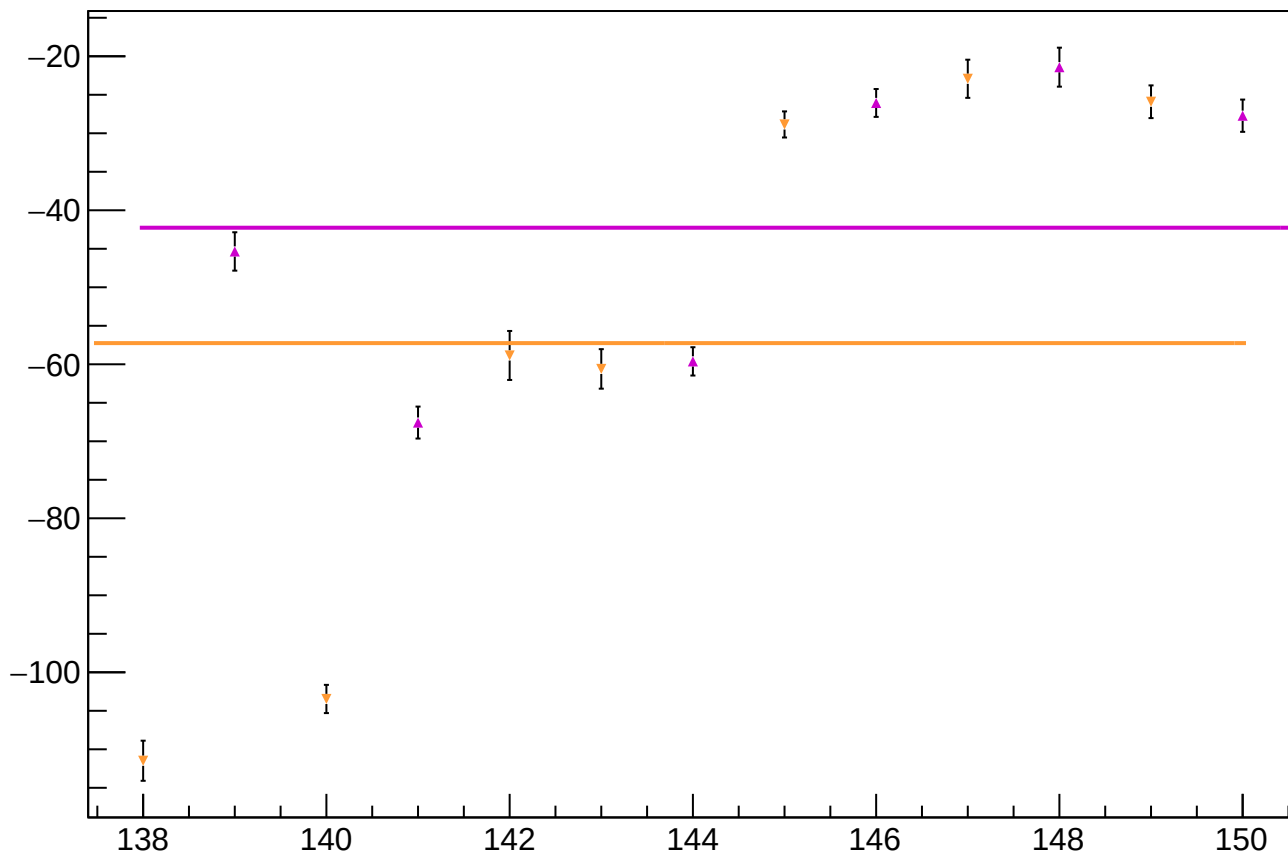
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.169+/-0.015  $\chi^2/\text{NDF}$ :123.4/5

Out: 0.256+/-0.016  $\chi^2/\text{NDF}$ :34.9/6

All: 0.211+/-0.011  $\chi^2/\text{NDF}$ : 173.5/12

reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -57.250+/-0.837  $\chi^2/\text{NDF}$ :1761.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -42.265+/-0.852  $\chi^2/\text{NDF}$ :435.6/5

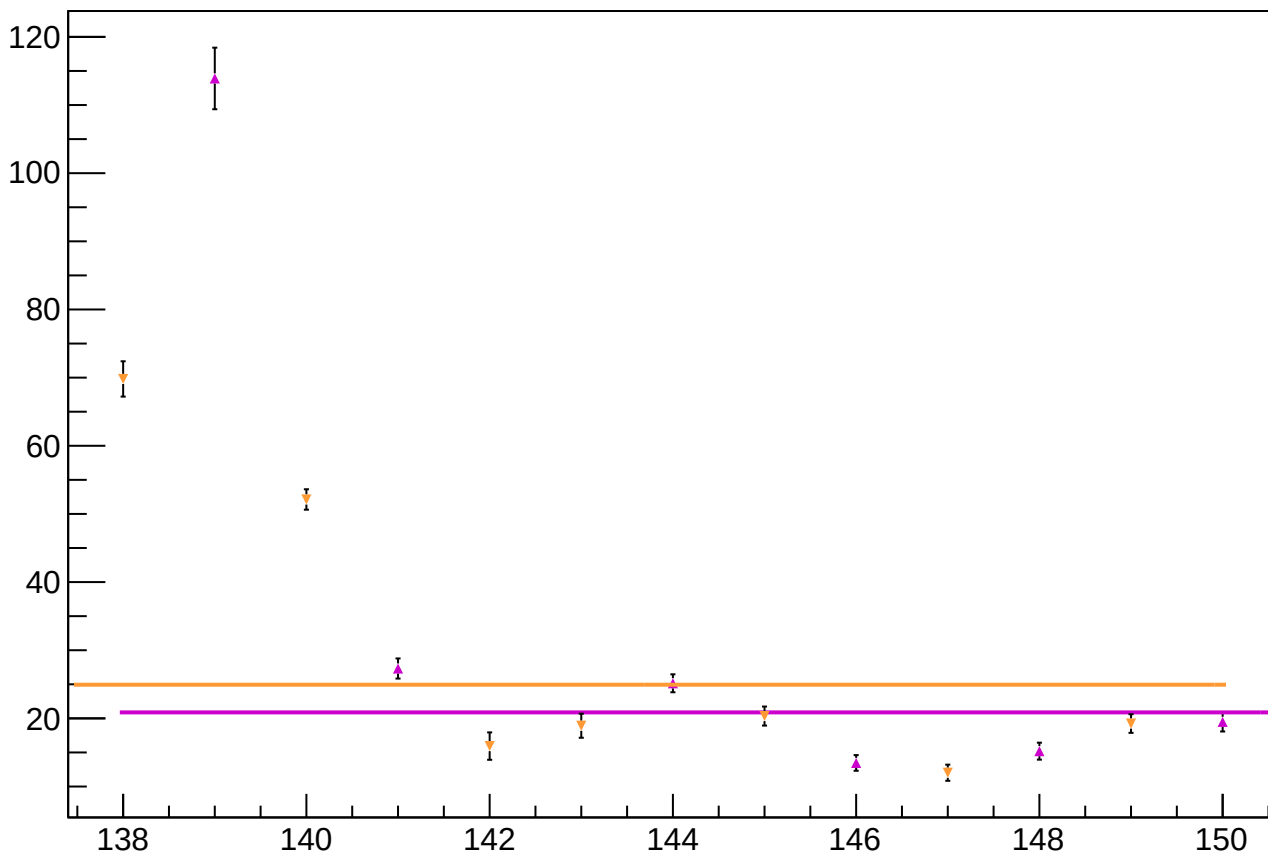
Left: -49.892+/-0.597  $\chi^2/\text{NDF}$ : 2355.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -42.265+/-0.852  $\chi^2/\text{NDF}$ :435.6/5  
 Out: -57.250+/-0.837  $\chi^2/\text{NDF}$ :1761.9/6

All: -49.892+/-0.597  $\chi^2/\text{NDF}$ : 2355.0/12



reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 24.939+/-0.585  $\chi^2/\text{NDF}$ :806.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 20.879+/-0.579  $\chi^2/\text{NDF}$ :517.1/5

Left: 22.888+/-0.411  $\chi^2/\text{NDF}$ : 1348.3/12

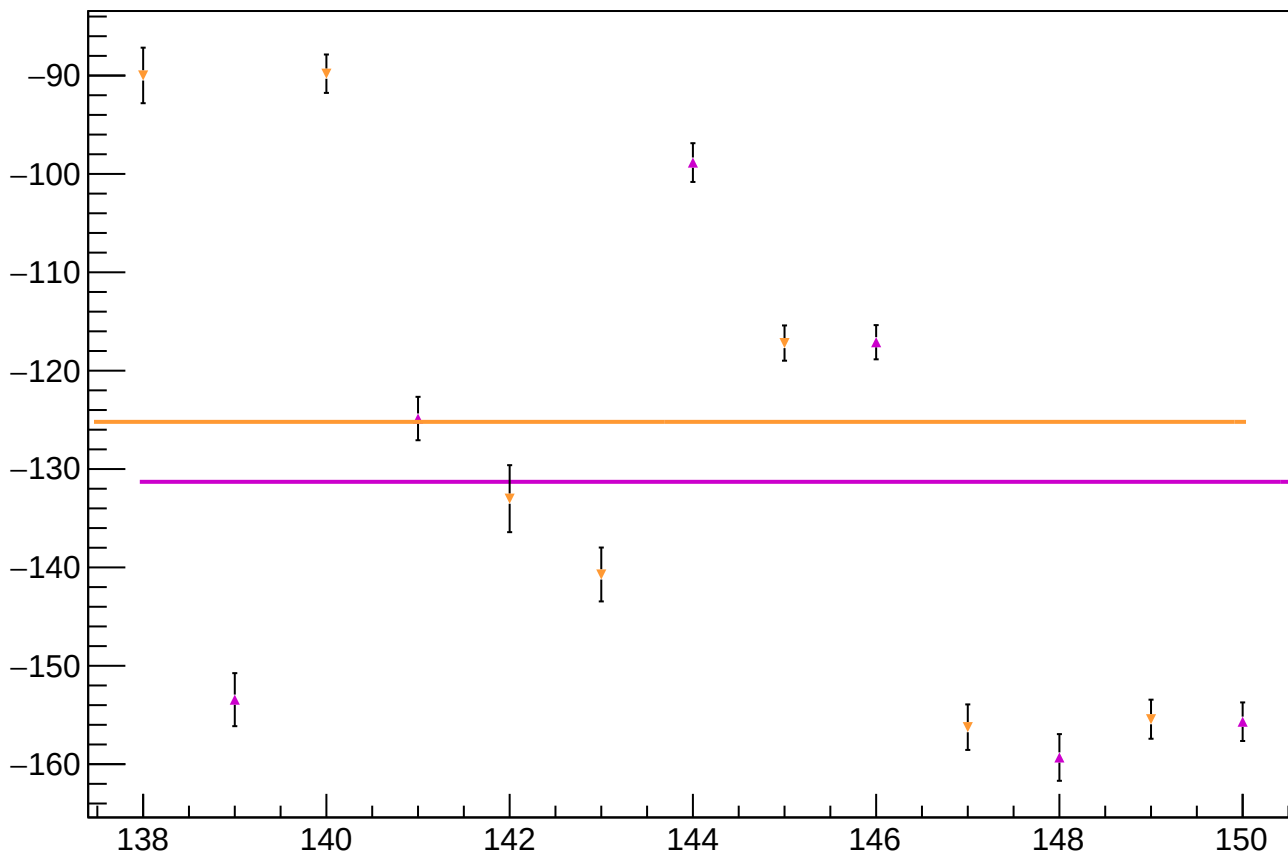
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 20.879+/-0.579  $\chi^2/\text{NDF}$ :517.1/5

Out: 24.939+/-0.585  $\chi^2/\text{NDF}$ :806.9/6

All: 22.888+/-0.411  $\chi^2/\text{NDF}$ : 1348.3/12

reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -125.203+/-0.858  $\chi^2/\text{NDF}$ :953.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -131.299+/-0.855  $\chi^2/\text{NDF}$ :708.1/5

Left: -128.262+/-0.605  $\chi^2/\text{NDF}$ : 1686.6/12

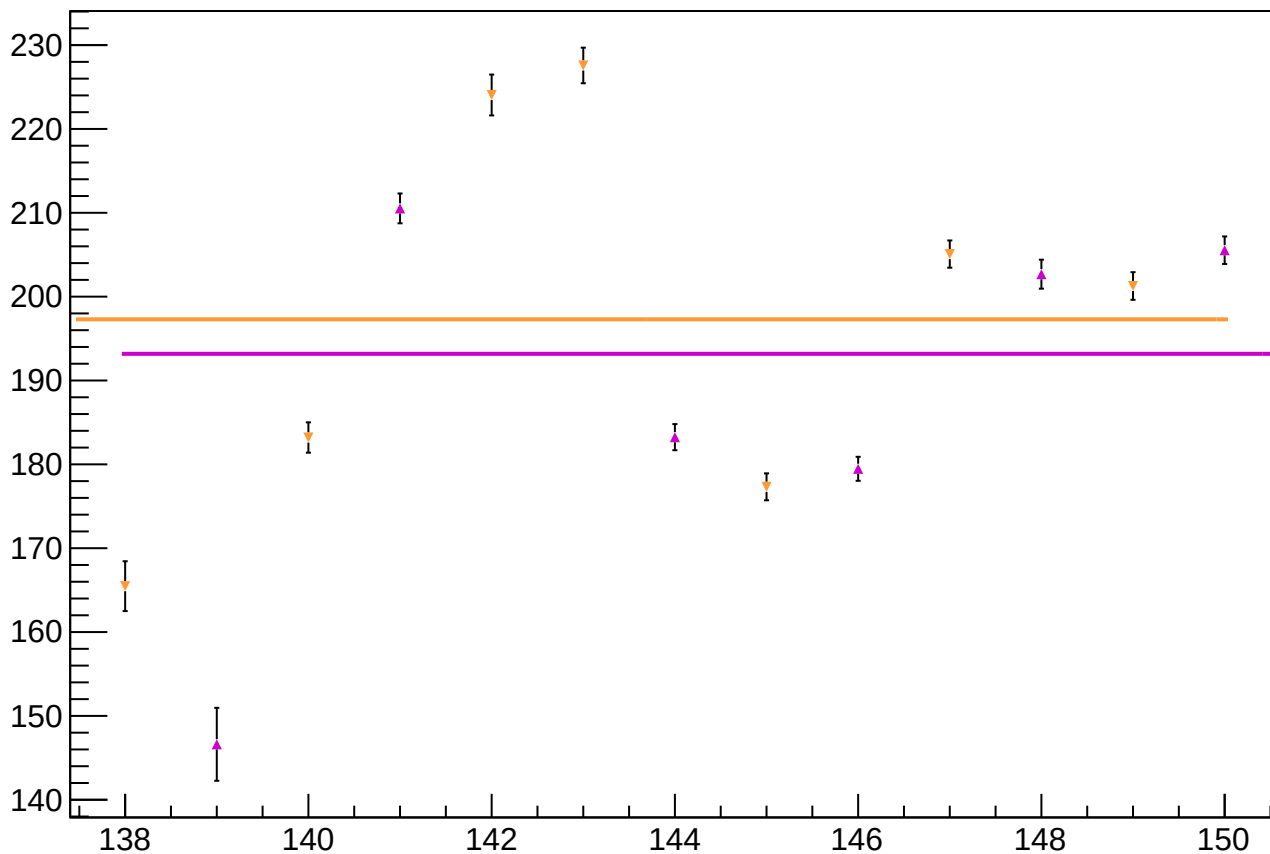
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -131.299+/-0.855  $\chi^2/\text{NDF}$ :708.1/5

Out: -125.203+/-0.858  $\chi^2/\text{NDF}$ :953.1/6

All: -128.262+/-0.605  $\chi^2/\text{NDF}$ : 1686.6/12

reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 197.296+/-0.717  $\chi^2/\text{NDF}$ :683.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 193.182+/-0.712  $\chi^2/\text{NDF}$ :429.1/5

Left: 195.223+/-0.505  $\chi^2/\text{NDF}$ : 1128.9/12

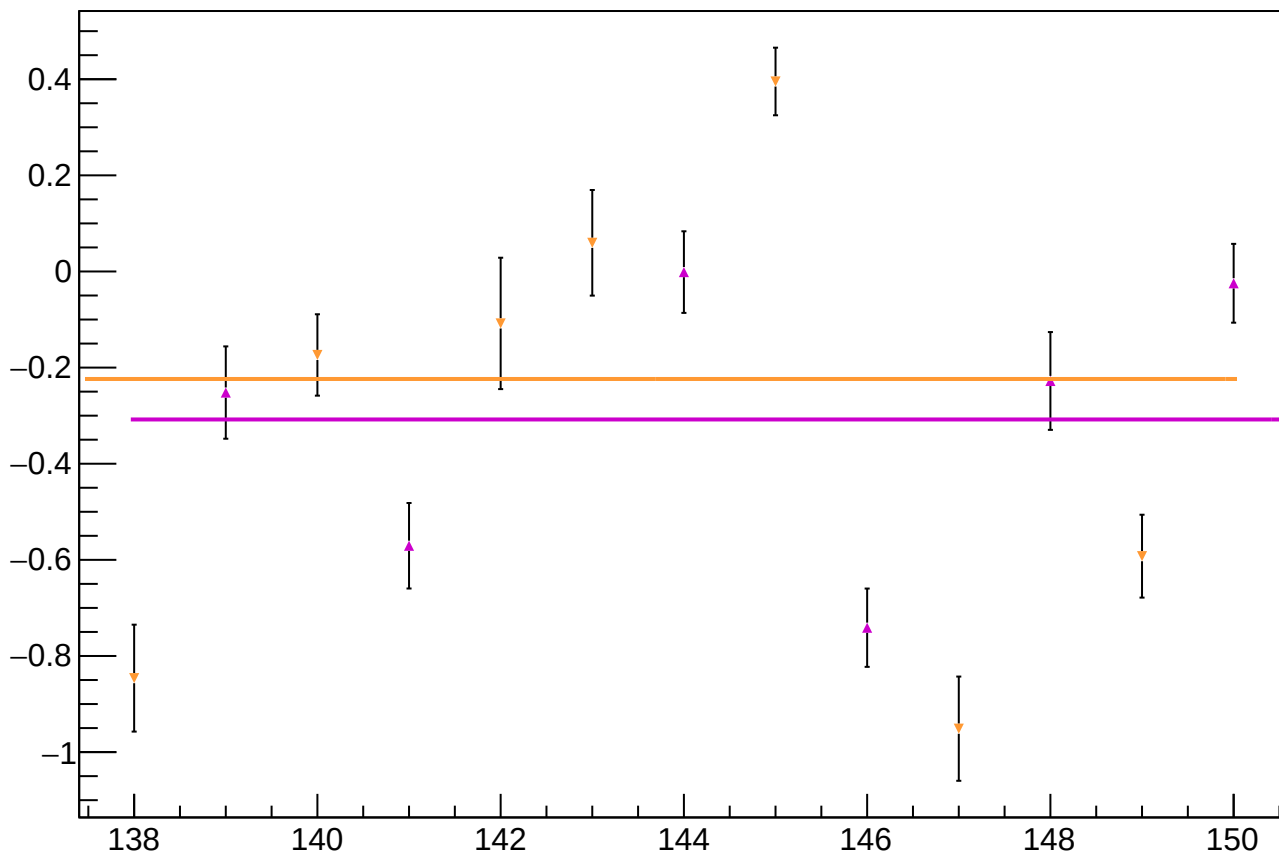
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 193.182+/-0.712  $\chi^2/\text{NDF}$ :429.1/5

Out: 197.296+/-0.717  $\chi^2/\text{NDF}$ :683.2/6

All: 195.223+/-0.505  $\chi^2/\text{NDF}$ : 1128.9/12

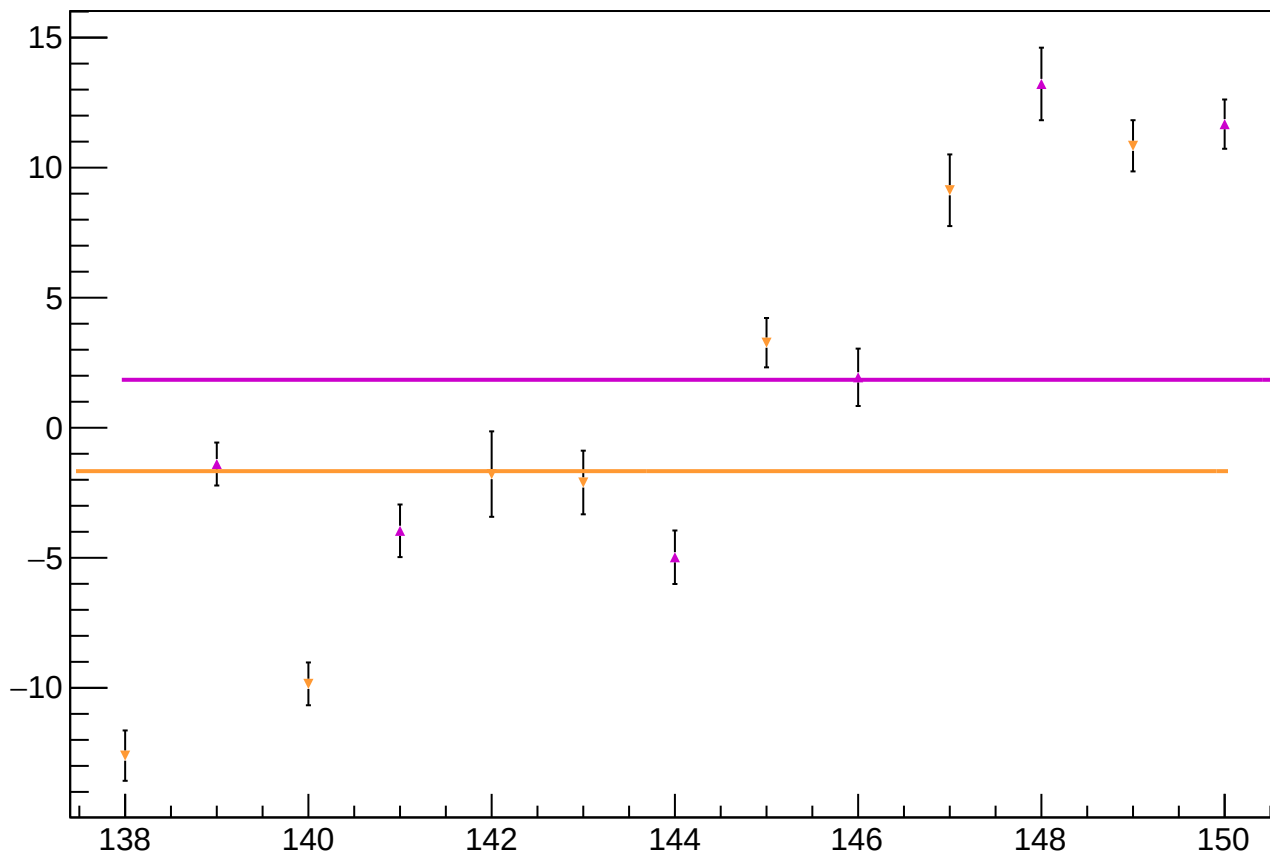
reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.224+/-0.036  $\chi^2/\text{NDF}$ :179.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.308+/-0.036  $\chi^2/\text{NDF}$ :62.9/5

Left: -0.266+/-0.025  $\chi^2/\text{NDF}$ : 245.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.308+/-0.036  $\chi^2/\text{NDF}$ :62.9/5  
 Out: -0.224+/-0.036  $\chi^2/\text{NDF}$ :179.8/6  
 All: -0.266+/-0.025  $\chi^2/\text{NDF}$ : 245.5/12

reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.668+/-0.400  $\chi^2/\text{NDF}$ :476.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1.844+/-0.414  $\chi^2/\text{NDF}$ :266.5/5

Left: 0.028+/-0.288  $\chi^2/\text{NDF}$ : 780.6/12

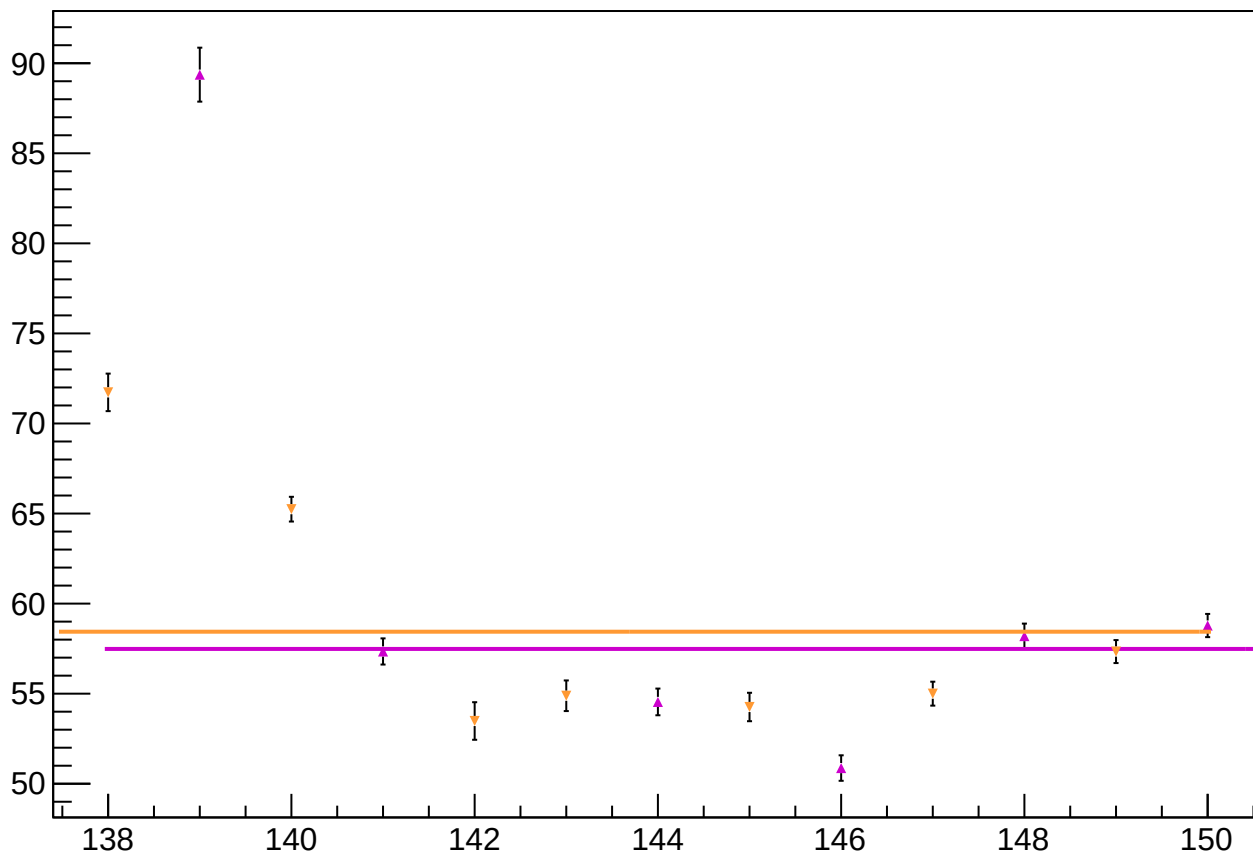
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1.844+/-0.414  $\chi^2/\text{NDF}$ :266.5/5

Out: -1.668+/-0.400  $\chi^2/\text{NDF}$ :476.7/6

All: 0.028+/-0.288  $\chi^2/\text{NDF}$ : 780.6/12

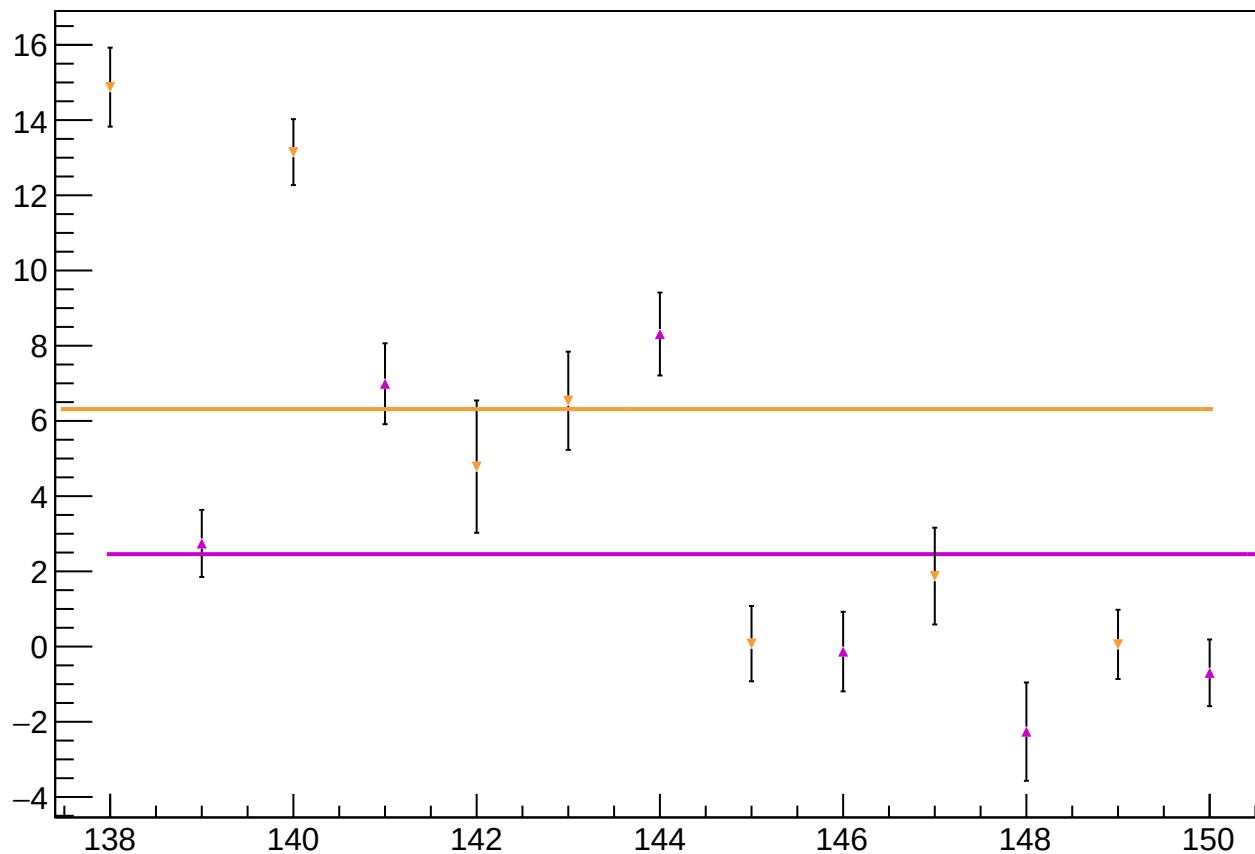
reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 58.440+/-0.293     $\chi^2/\text{NDF}$ :359.0/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 57.483+/-0.306     $\chi^2/\text{NDF}$ :561.1/5

Left: 57.984+/-0.212     $\chi^2/\text{NDF}$ : 925.2/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 57.483+/-0.306     $\chi^2/\text{NDF}$ :561.1/5  
 Out: 58.440+/-0.293     $\chi^2/\text{NDF}$ :359.0/6  
 All: 57.984+/-0.212     $\chi^2/\text{NDF}$ : 925.2/12

reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6.316+/-0.412  $\chi^2/\text{NDF}$ :224.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.457+/-0.419  $\chi^2/\text{NDF}$ :77.8/5

Left: 4.421+/-0.294  $\chi^2/\text{NDF}$ : 345.8/12

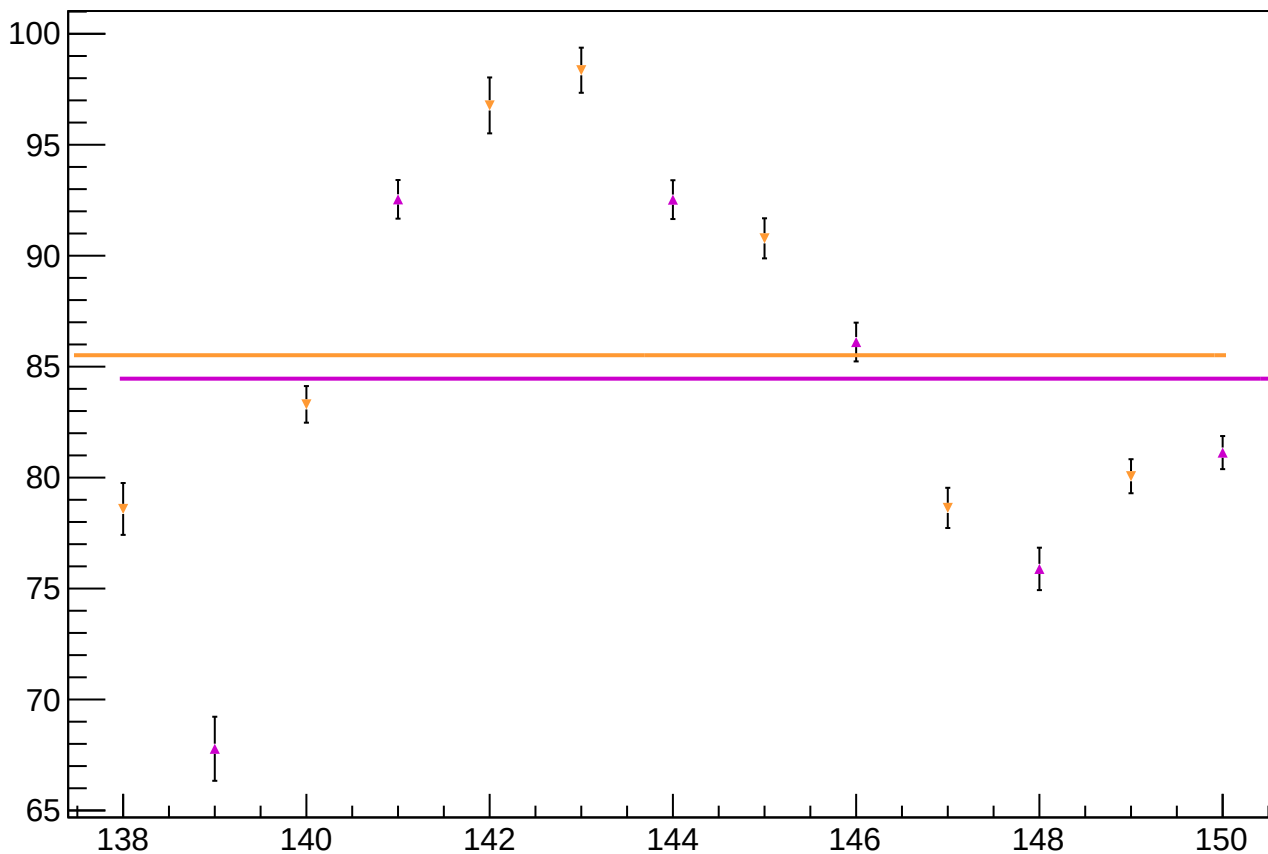
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.457+/-0.419  $\chi^2/\text{NDF}$ :77.8/5

Out: 6.316+/-0.412  $\chi^2/\text{NDF}$ :224.9/6

All: 4.421+/-0.294  $\chi^2/\text{NDF}$ : 345.8/12

reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

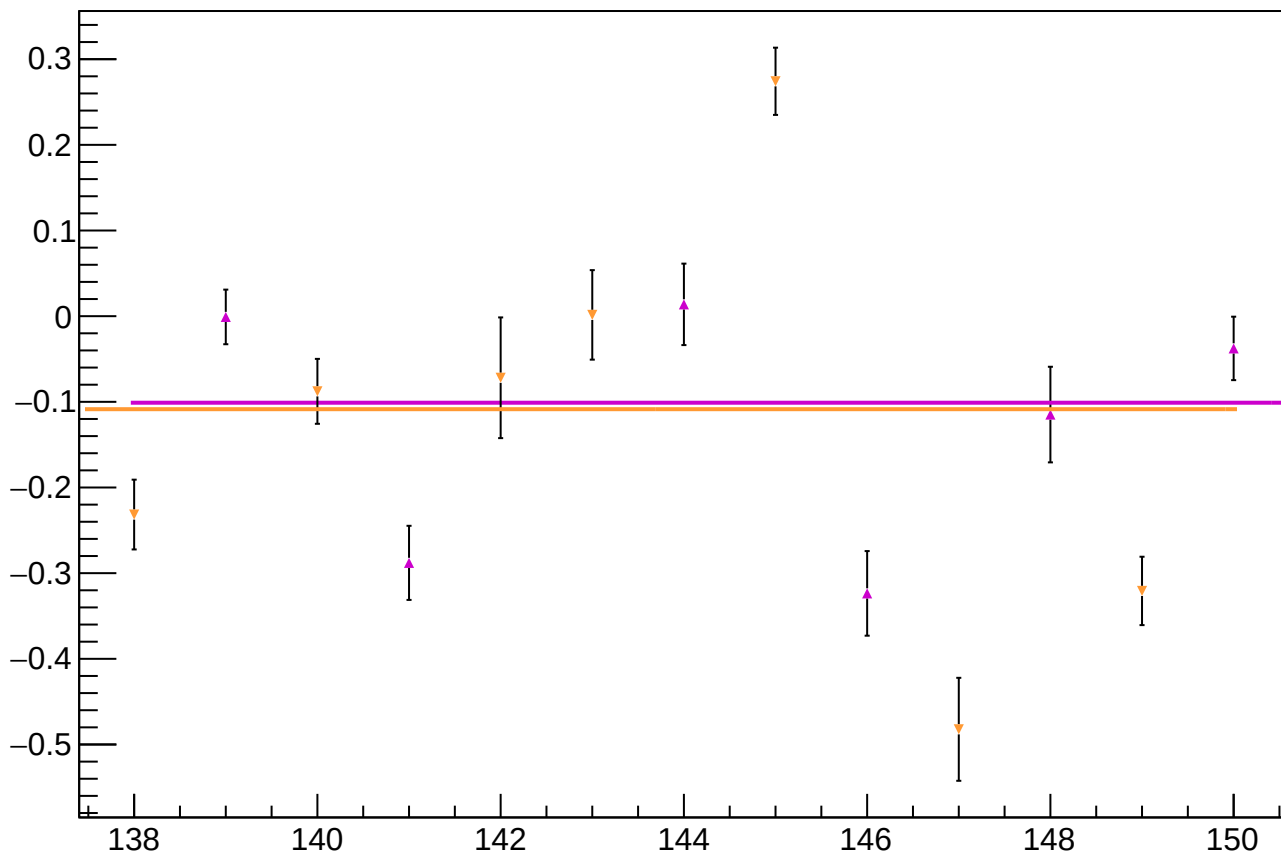


Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 85.515+/-0.355     $\chi^2/\text{NDF}$ :423.9/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 84.458+/-0.370     $\chi^2/\text{NDF}$ :408.8/5

Left: 85.009+/-0.256     $\chi^2/\text{NDF}$ : 836.9/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 84.458+/-0.370     $\chi^2/\text{NDF}$ :408.8/5  
 Out: 85.515+/-0.355     $\chi^2/\text{NDF}$ :423.9/6  
 All: 85.009+/-0.256     $\chi^2/\text{NDF}$ : 836.9/12



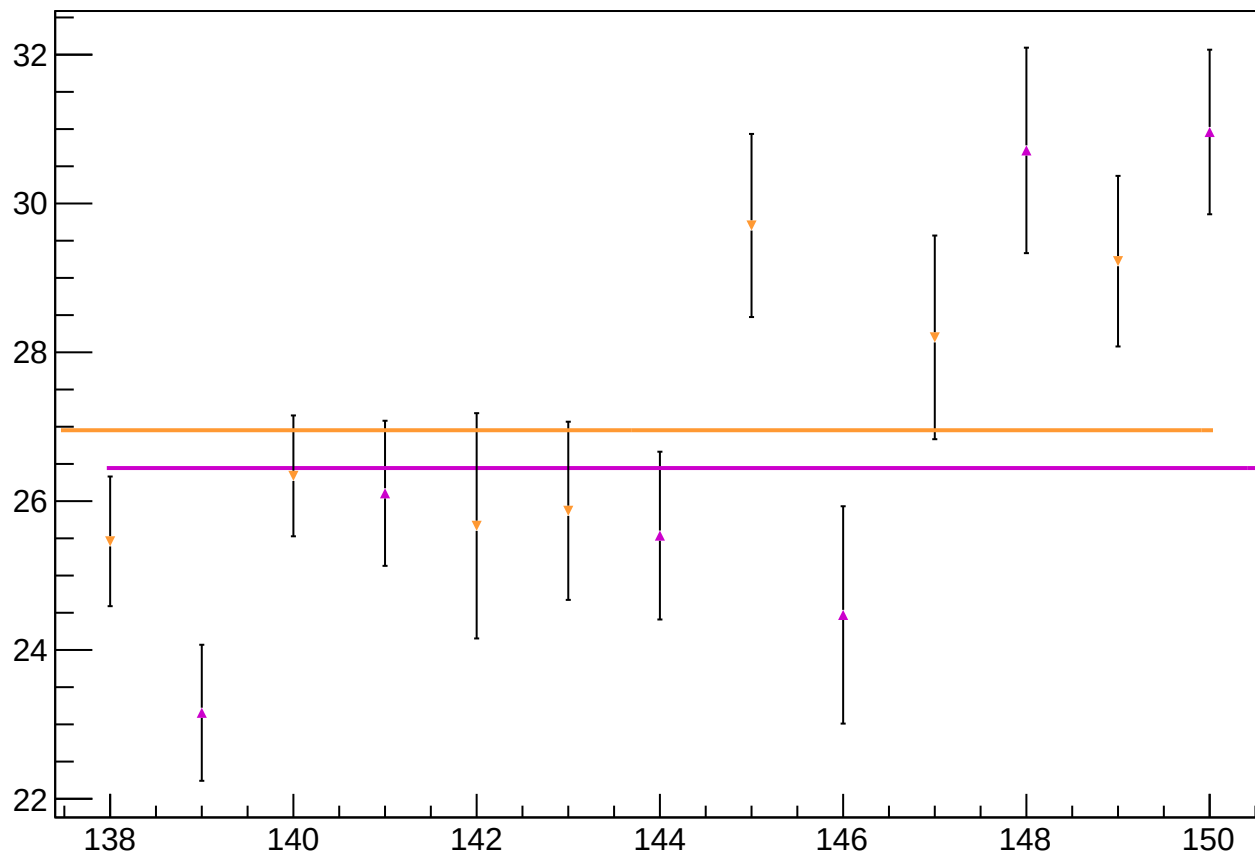
reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.109+/-0.017  $\chi^2/\text{NDF}$ :176.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.101+/-0.017  $\chi^2/\text{NDF}$ :57.7/5

Left: -0.105+/-0.012  $\chi^2/\text{NDF}$ : 234.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.101+/-0.017  $\chi^2/\text{NDF}$ :57.7/5  
 Out: -0.109+/-0.017  $\chi^2/\text{NDF}$ :176.2/6  
 All: -0.105+/-0.012  $\chi^2/\text{NDF}$ : 234.0/12

reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 26.953+/-0.411  $\chi^2/\text{NDF}$ :14.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 26.445+/-0.454  $\chi^2/\text{NDF}$ :41.8/5

Left: 26.724+/-0.305  $\chi^2/\text{NDF}$ : 57.3/12

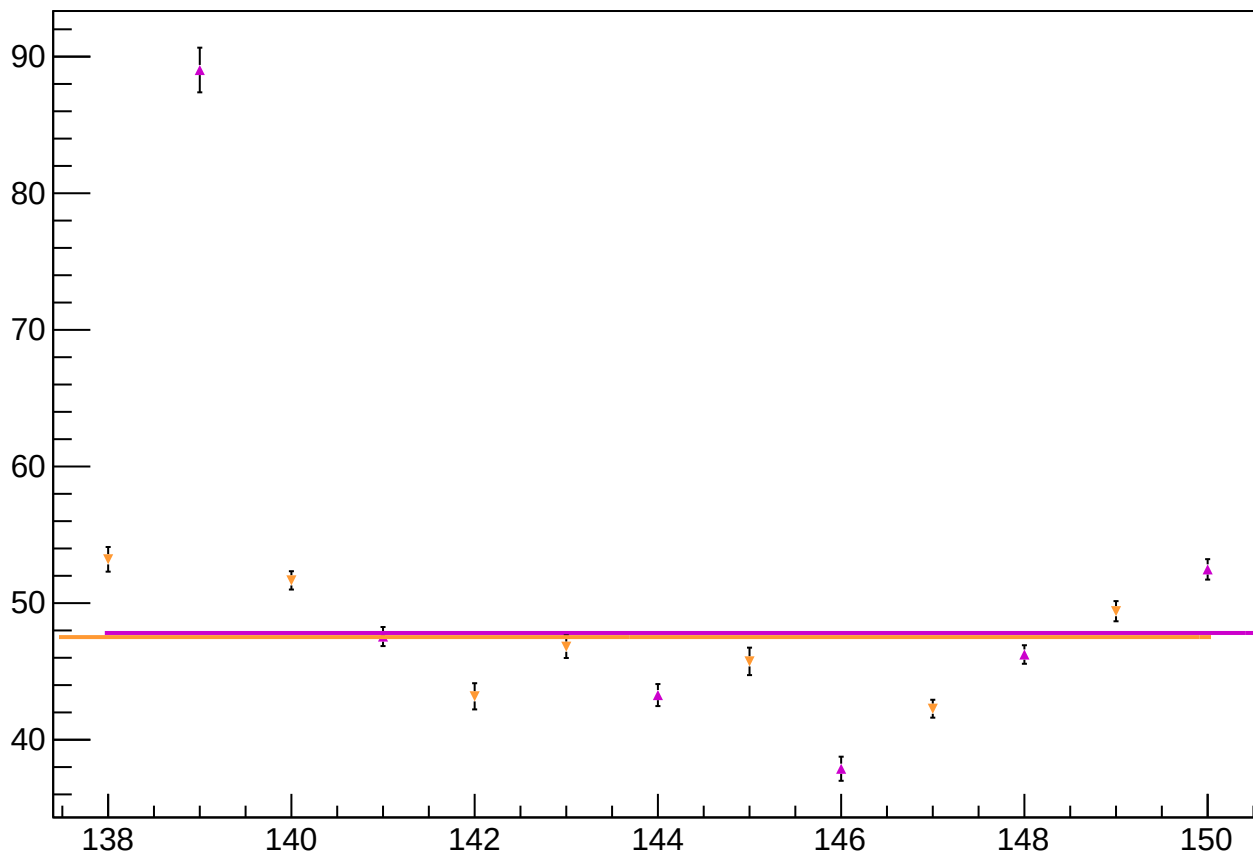
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 26.445+/-0.454  $\chi^2/\text{NDF}$ :41.8/5

Out: 26.953+/-0.411  $\chi^2/\text{NDF}$ :14.8/6

All: 26.724+/-0.305  $\chi^2/\text{NDF}$ : 57.3/12

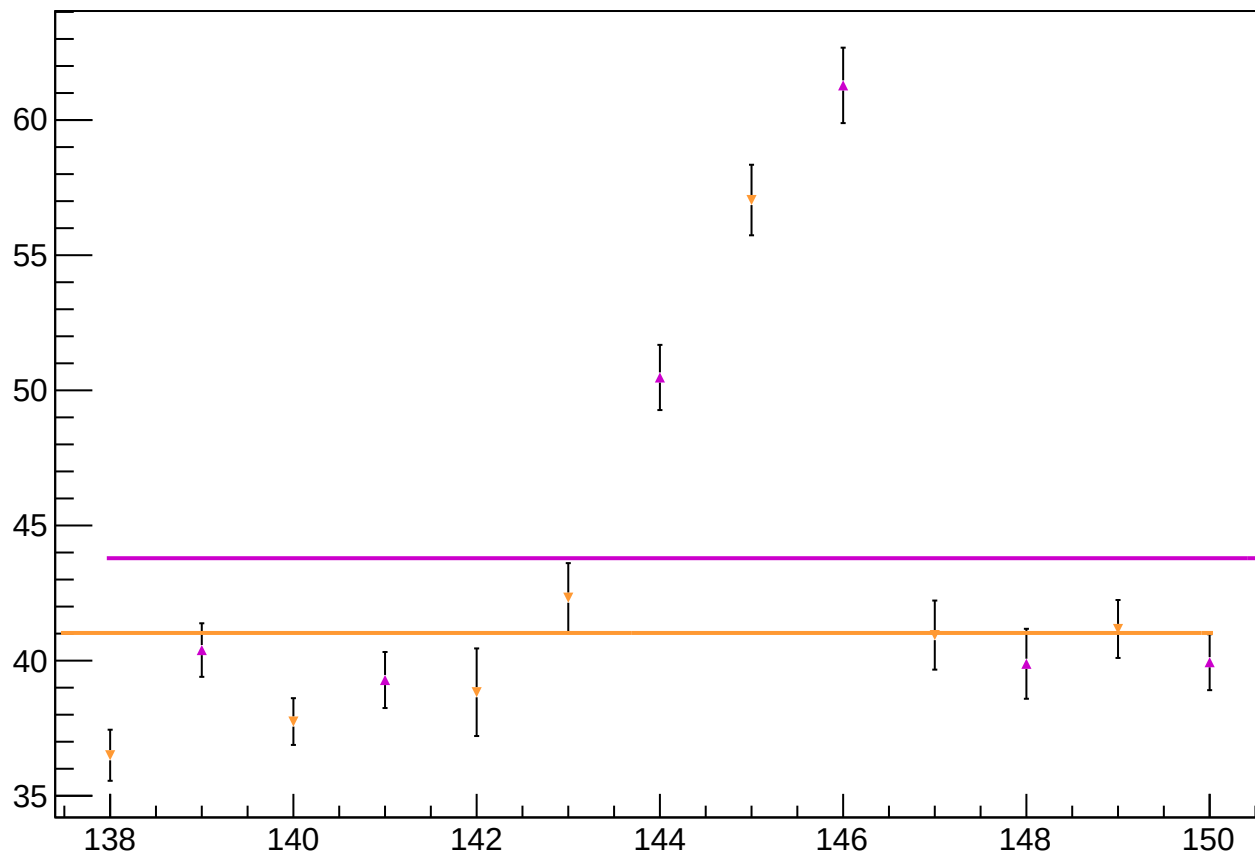
reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 47.514+/-0.299     $\chi^2/\text{NDF}$ :173.0/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 47.816+/-0.329     $\chi^2/\text{NDF}$ :838.3/5

Left: 47.650+/-0.222     $\chi^2/\text{NDF}$ : 1011.8/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 47.816+/-0.329     $\chi^2/\text{NDF}$ :838.3/5  
 Out: 47.514+/-0.299     $\chi^2/\text{NDF}$ :173.0/6  
 All: 47.650+/-0.222     $\chi^2/\text{NDF}$ : 1011.8/12

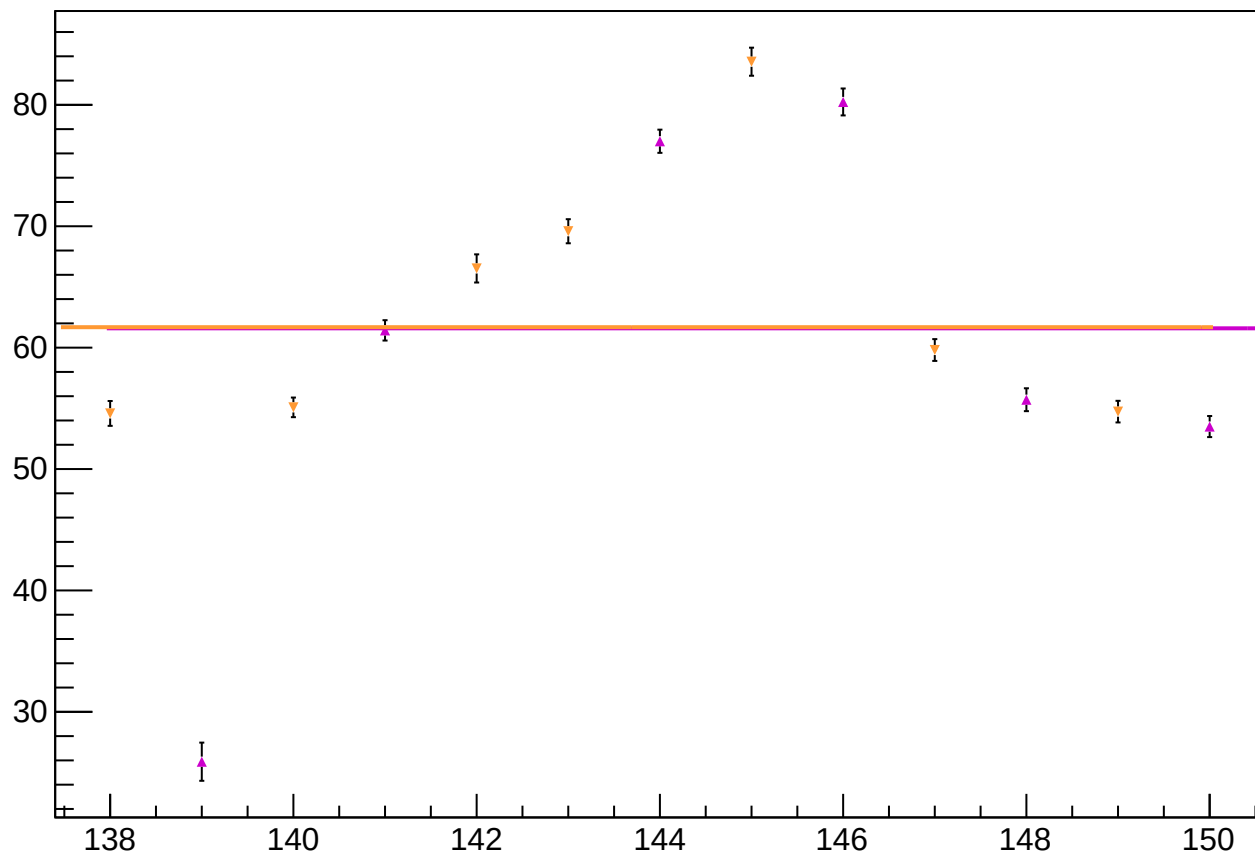
reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 41.024+/-0.426  $\chi^2/\text{NDF}$ :190.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 43.790+/-0.462  $\chi^2/\text{NDF}$ :241.5/5

Left: 42.293+/-0.313  $\chi^2/\text{NDF}$ : 451.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 43.790+/-0.462  $\chi^2/\text{NDF}$ :241.5/5  
 Out: 41.024+/-0.426  $\chi^2/\text{NDF}$ :190.8/6  
 All: 42.293+/-0.313  $\chi^2/\text{NDF}$ : 451.7/12

reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 61.685+/-0.365  $\chi^2/\text{NDF}$ : 619.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 61.592+/-0.402  $\chi^2/\text{NDF}$ : 1184.2/5

Left: 61.643+/-0.270  $\chi^2/\text{NDF}$ : 1803.5/12

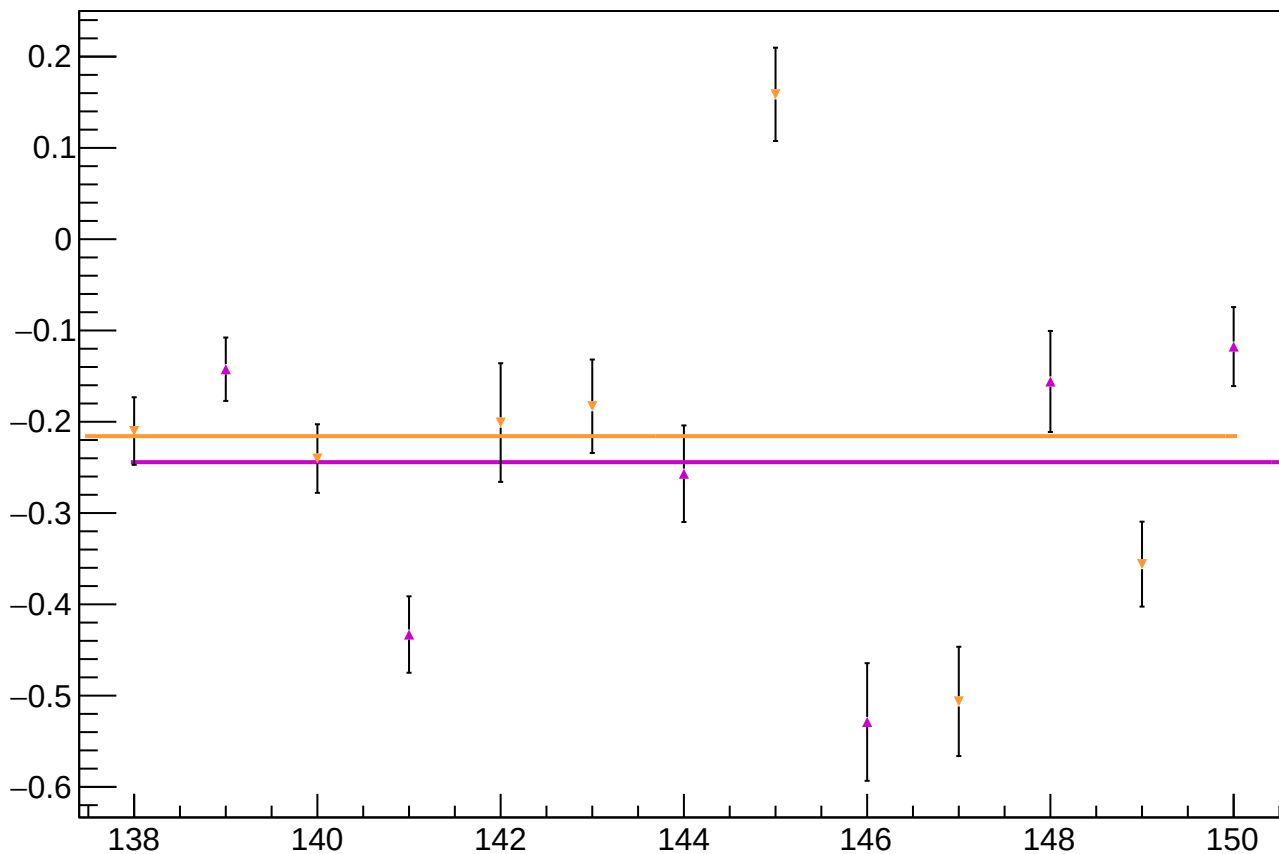
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 61.592+/-0.402  $\chi^2/\text{NDF}$ : 1184.2/5

Out: 61.685+/-0.365  $\chi^2/\text{NDF}$ : 619.2/6

All: 61.643+/-0.270  $\chi^2/\text{NDF}$ : 1803.5/12

reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.216+/-0.018  $\chi^2/\text{NDF}$ : 87.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.244+/-0.019  $\chi^2/\text{NDF}$ : 59.6/5

Left: -0.229+/-0.013  $\chi^2/\text{NDF}$ : 148.1/12

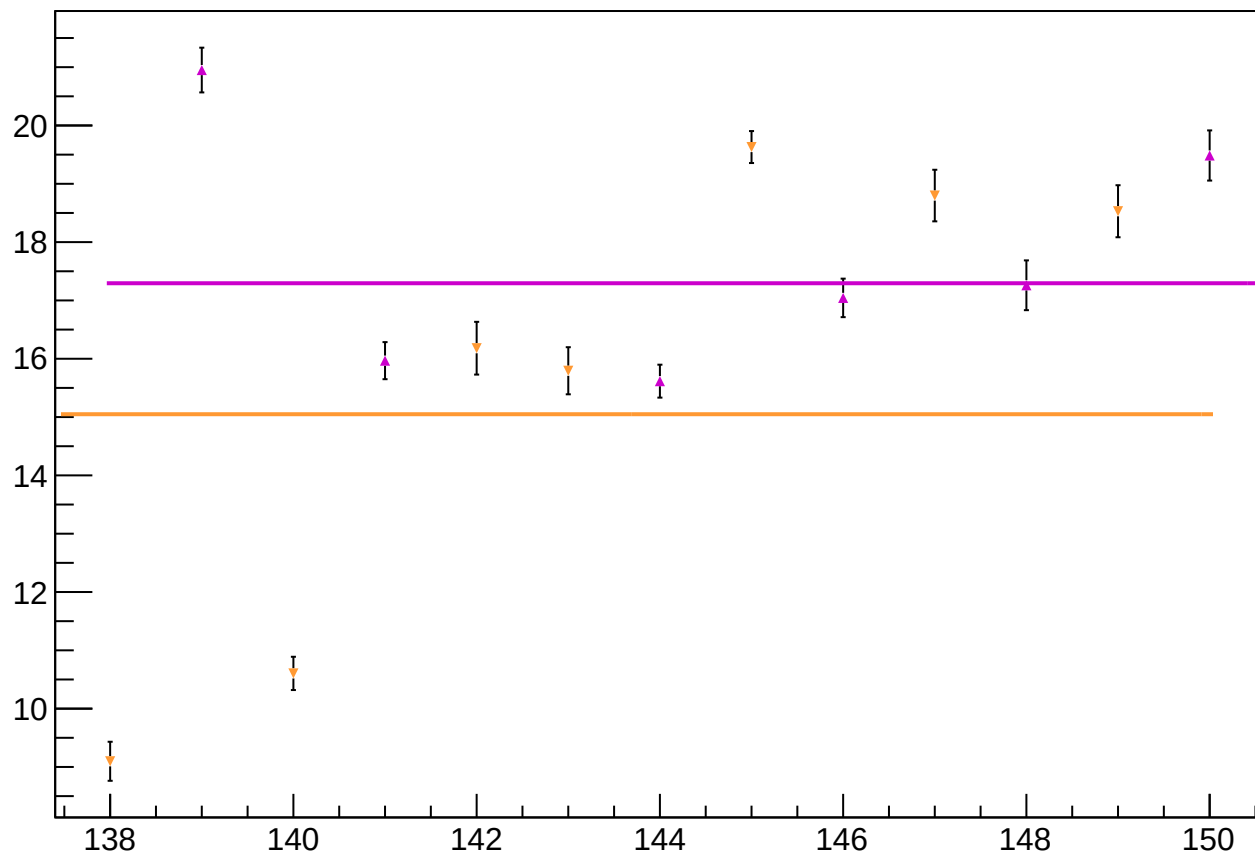
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.244+/-0.019  $\chi^2/\text{NDF}$ : 59.6/5

Out: -0.216+/-0.018  $\chi^2/\text{NDF}$ : 87.2/6

All: -0.229+/-0.013  $\chi^2/\text{NDF}$ : 148.1/12

reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 15.049+/-0.134  $\chi^2/\text{NDF}$ :980.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 17.295+/-0.142  $\chi^2/\text{NDF}$ :170.1/5

Left: 16.103+/-0.098  $\chi^2/\text{NDF}$ : 1282.8/12

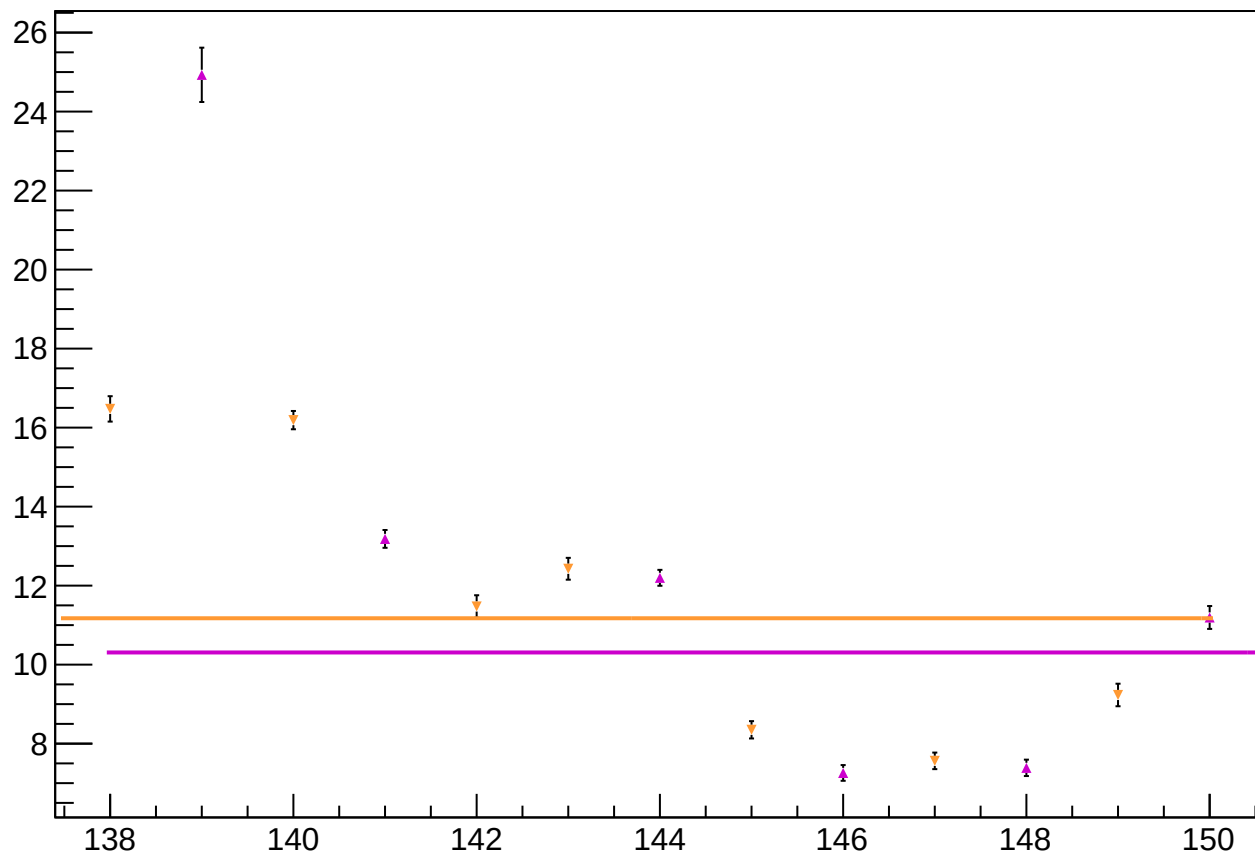
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 17.295+/-0.142  $\chi^2/\text{NDF}$ :170.1/5

Out: 15.049+/-0.134  $\chi^2/\text{NDF}$ :980.8/6

All: 16.103+/-0.098  $\chi^2/\text{NDF}$ : 1282.8/12

reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 11.174+/-0.096  $\chi^2/\text{NDF}$ :1271.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 10.308+/-0.097  $\chi^2/\text{NDF}$ :1145.5/5

Left: 10.746+/-0.068  $\chi^2/\text{NDF}$ : 2458.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

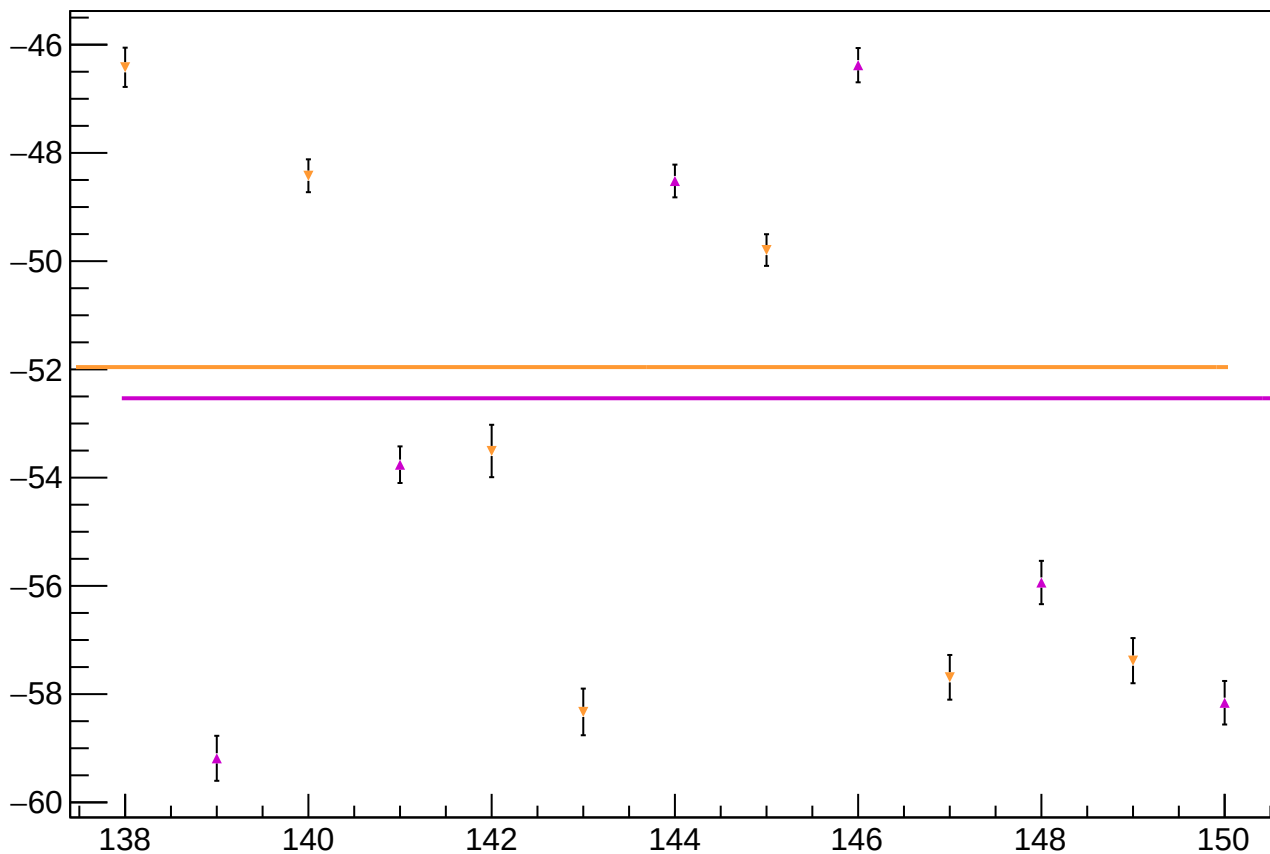
In: 10.308+/-0.097  $\chi^2/\text{NDF}$ :1145.5/5

Out: 11.174+/-0.096  $\chi^2/\text{NDF}$ :1271.9/6

All: 10.746+/-0.068  $\chi^2/\text{NDF}$ : 2458.0/12



reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



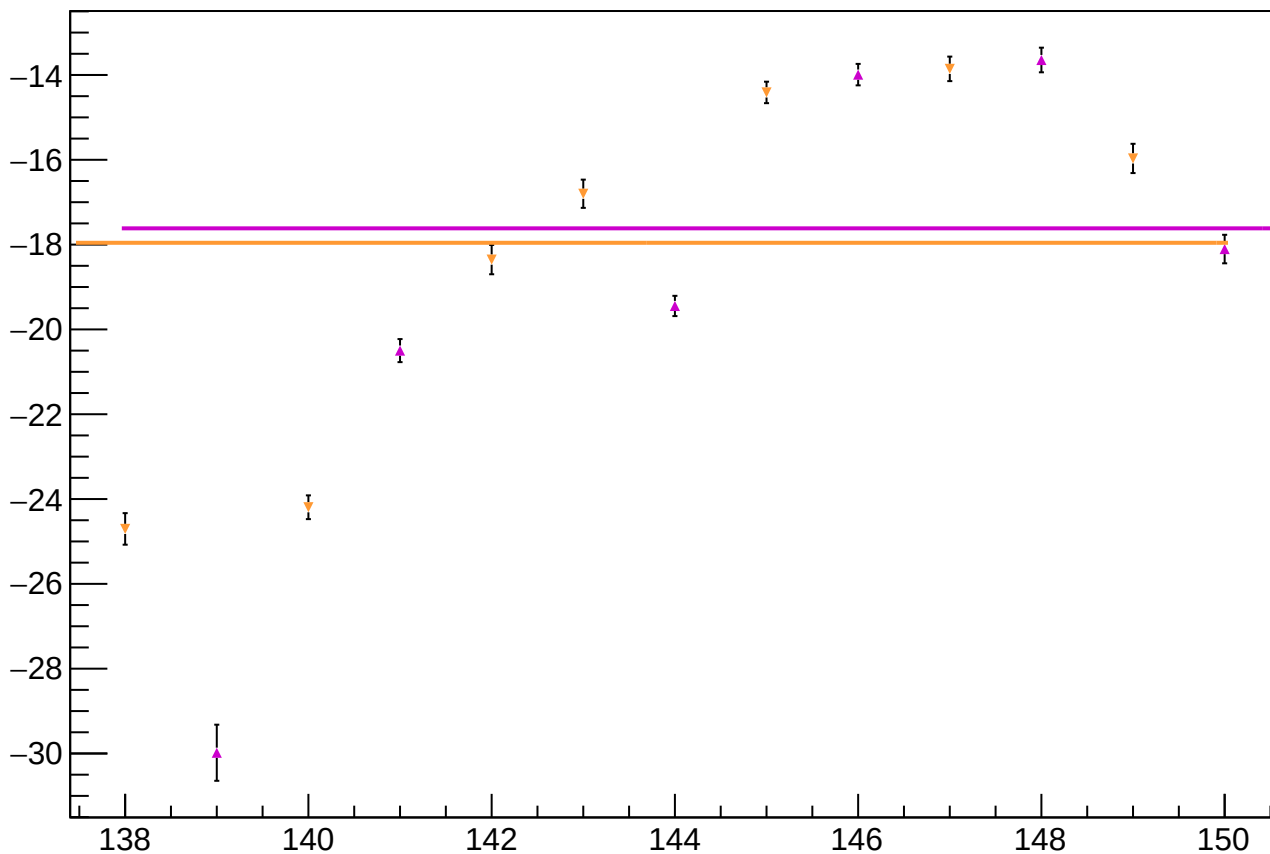
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -51.957+/-0.139  $\chi^2/\text{NDF}$ :1013.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -52.533+/-0.145  $\chi^2/\text{NDF}$ :1091.2/5

Left: -52.235+/-0.100  $\chi^2/\text{NDF}$ : 2113.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -52.533+/-0.145  $\chi^2/\text{NDF}$ :1091.2/5  
 Out: -51.957+/-0.139  $\chi^2/\text{NDF}$ :1013.9/6

All: -52.235+/-0.100  $\chi^2/\text{NDF}$ : 2113.3/12

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



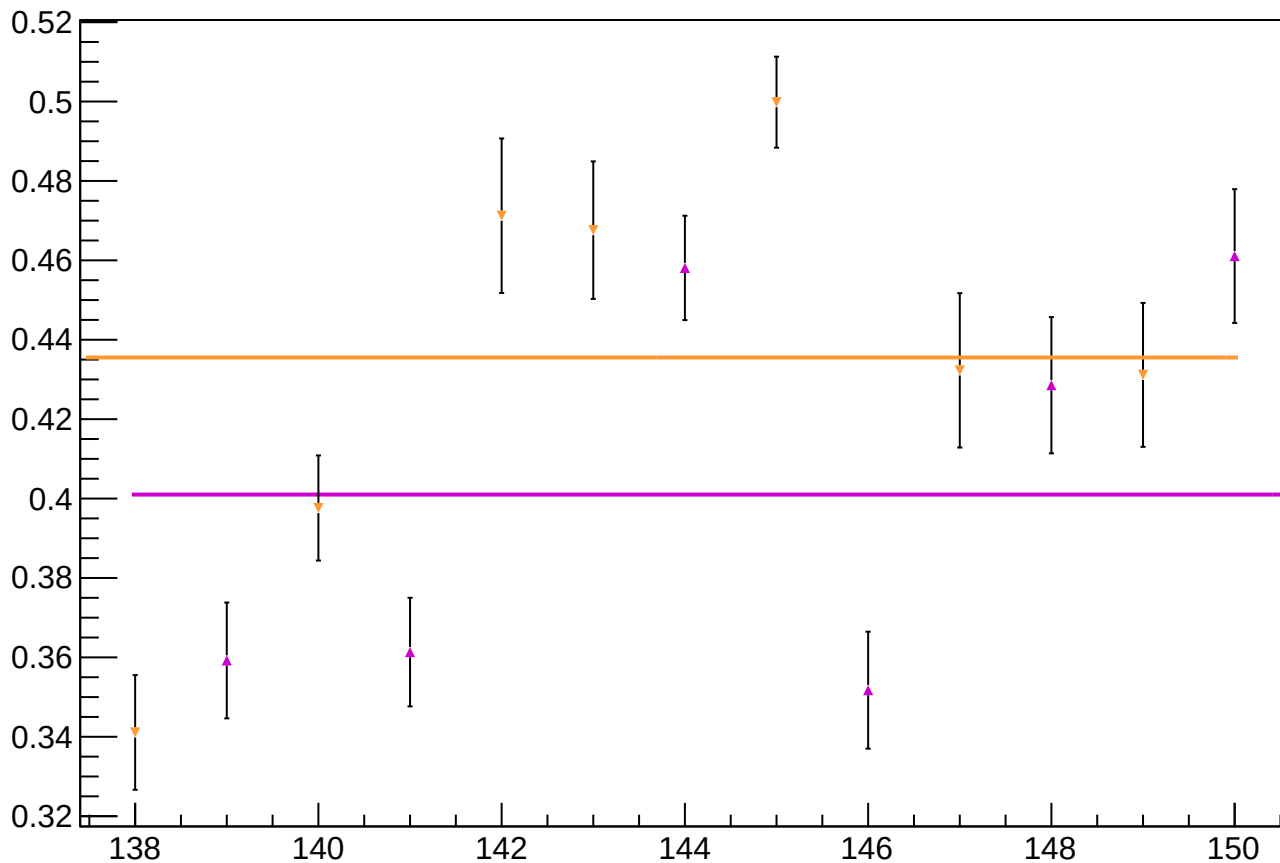
Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -17.957+/-0.117     $\chi^2/\text{NDF}$ :1268.5/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -17.617+/-0.120     $\chi^2/\text{NDF}$ :914.6/5

Left: -17.791+/-0.084     $\chi^2/\text{NDF}$ : 2187.2/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: -17.617+/-0.120     $\chi^2/\text{NDF}$ :914.6/5  
 Out: -17.957+/-0.117     $\chi^2/\text{NDF}$ :1268.5/6

All: -17.791+/-0.084     $\chi^2/\text{NDF}$ : 2187.2/12

reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.436 $\pm$ 0.006  $\chi^2$ /NDF:89.3/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.401 $\pm$ 0.006  $\chi^2$ /NDF:62.0/5

Left: 0.419 $\pm$ 0.004  $\chi^2$ /NDF: 168.3/12

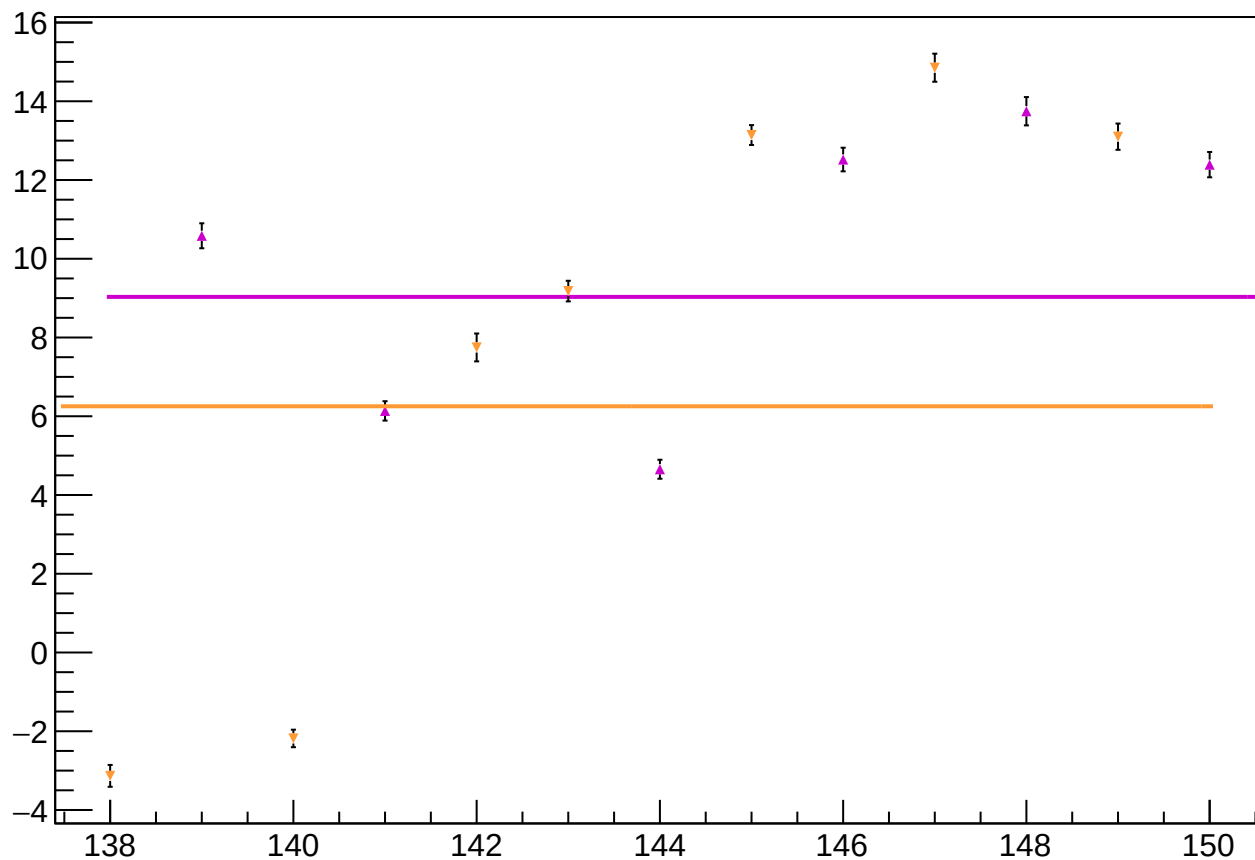
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.401 $\pm$ 0.006  $\chi^2$ /NDF:62.0/5

Out: 0.436 $\pm$ 0.006  $\chi^2$ /NDF:89.3/6

All: 0.419 $\pm$ 0.004  $\chi^2$ /NDF: 168.3/12

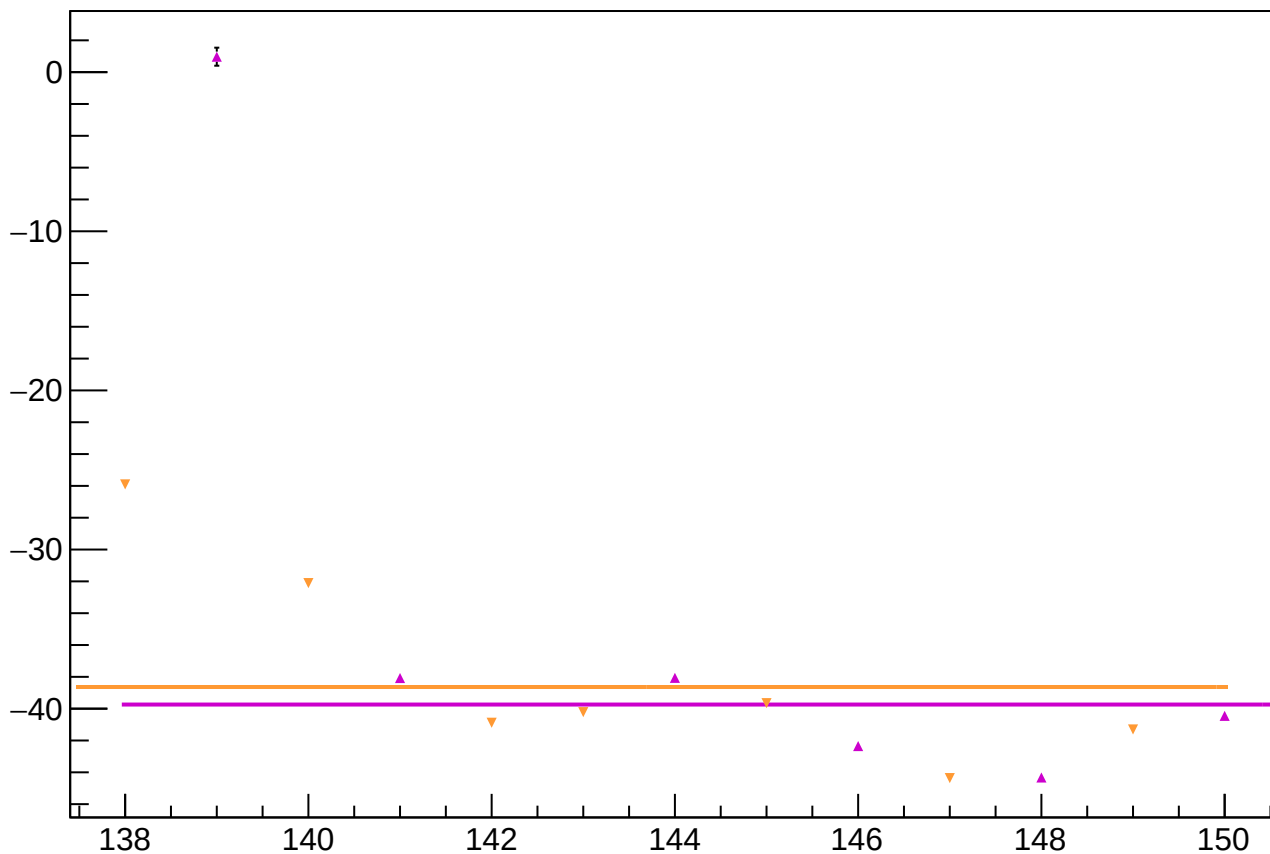
reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.253+/-0.106     $\chi^2/\text{NDF}$ : 4469.3/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 9.032+/-0.118     $\chi^2/\text{NDF}$ : 908.5/5

Left: 7.503+/-0.079     $\chi^2/\text{NDF}$ : 5684.3/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 9.032+/-0.118     $\chi^2/\text{NDF}$ : 908.5/5  
 Out: 6.253+/-0.106     $\chi^2/\text{NDF}$ : 4469.3/6  
 All: 7.503+/-0.079     $\chi^2/\text{NDF}$ : 5684.3/12

reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



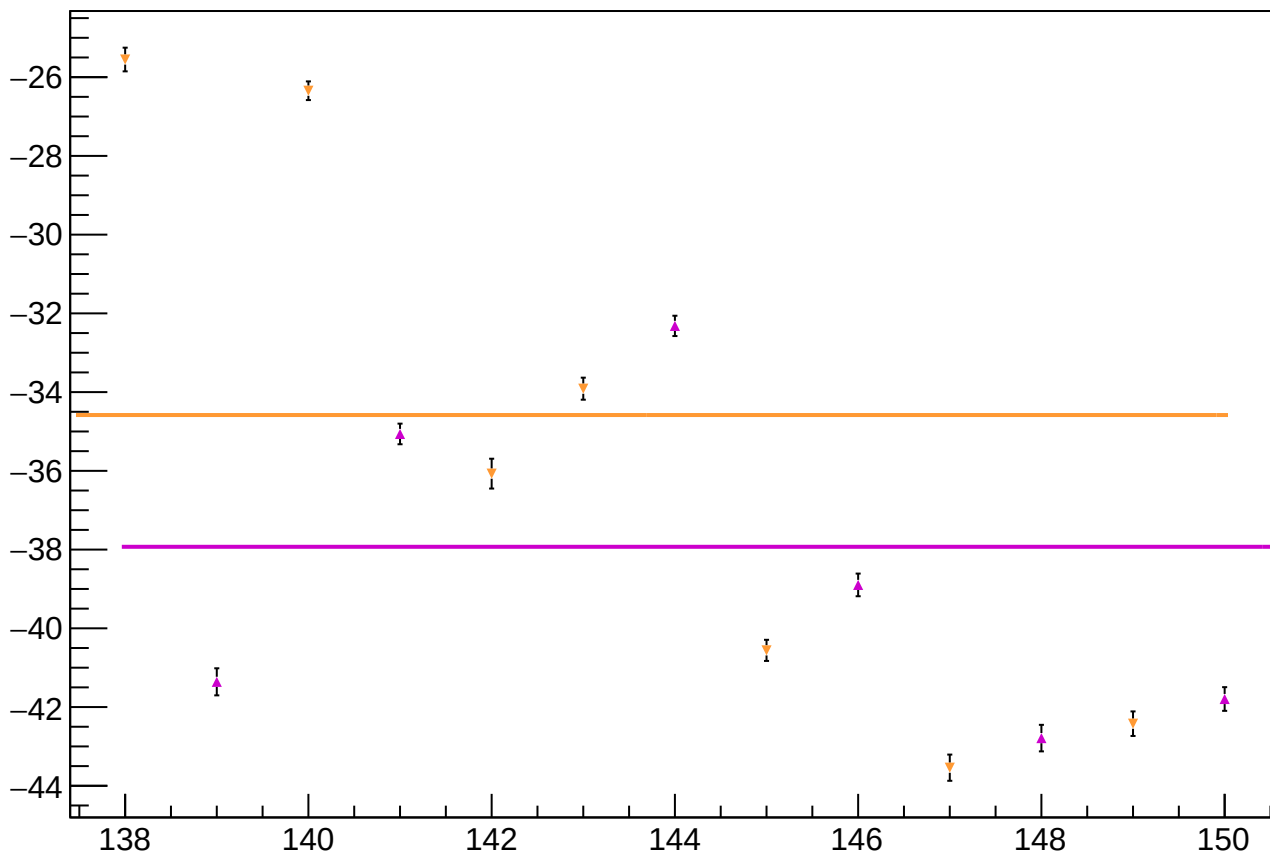
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -38.638+/-0.075  $\chi^2/\text{NDF}$ : 5033.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -39.741+/-0.081  $\chi^2/\text{NDF}$ : 6231.5/5

Left: -39.150+/-0.055  $\chi^2/\text{NDF}$ : 11363.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -39.741+/-0.081  $\chi^2/\text{NDF}$ : 6231.5/5  
 Out: -38.638+/-0.075  $\chi^2/\text{NDF}$ : 5033.2/6

All: -39.150+/-0.055  $\chi^2/\text{NDF}$ : 11363.8/12

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -34.582+/-0.111  $\chi^2/\text{NDF}$ :3981.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -37.929+/-0.120  $\chi^2/\text{NDF}$ :1077.1/5

Left: -36.126+/-0.081  $\chi^2/\text{NDF}$ : 5480.9/12

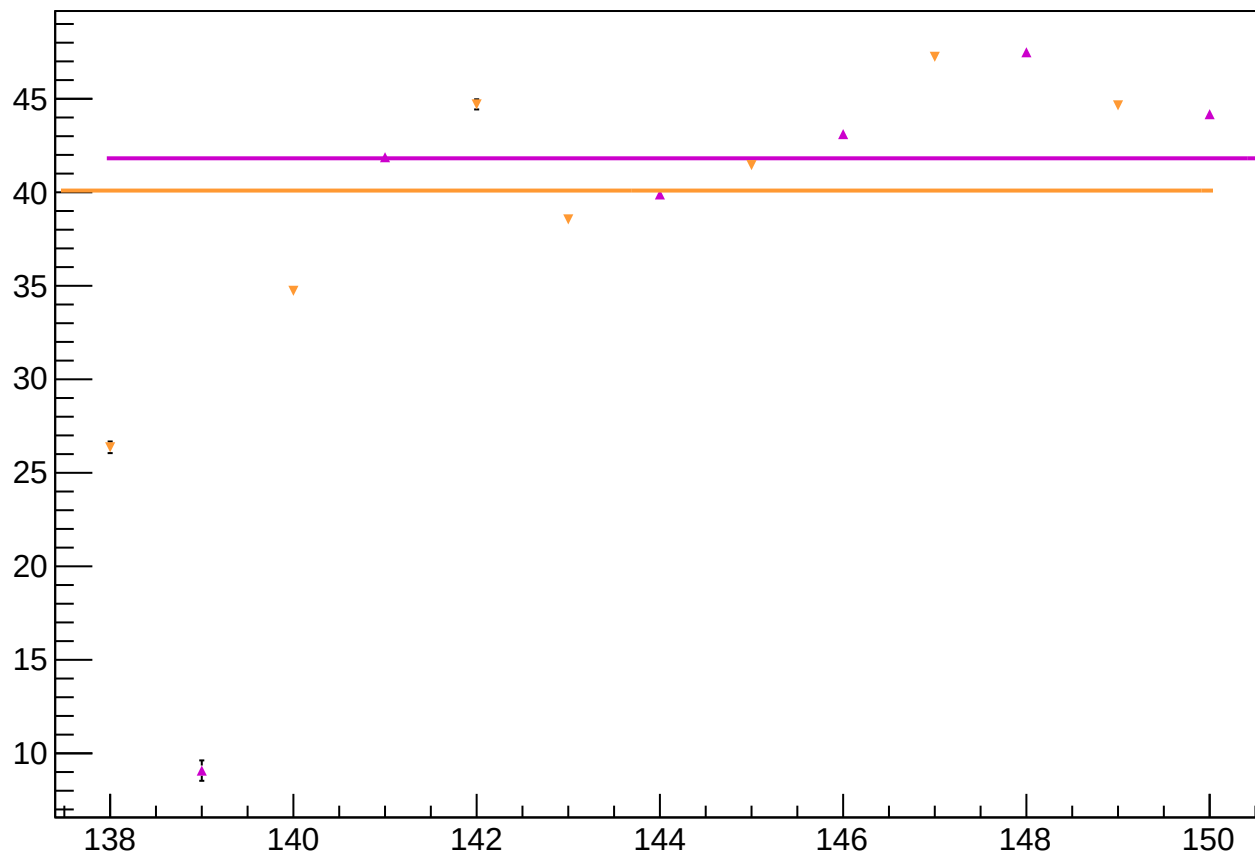
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.929+/-0.120  $\chi^2/\text{NDF}$ :1077.1/5

Out: -34.582+/-0.111  $\chi^2/\text{NDF}$ :3981.4/6

All: -36.126+/-0.081  $\chi^2/\text{NDF}$ : 5480.9/12

reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 40.093+/-0.092  $\chi^2/\text{NDF}$ : 4177.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 41.818+/-0.100  $\chi^2/\text{NDF}$ : 4349.7/5

Left: 40.889+/-0.068  $\chi^2/\text{NDF}$ : 8688.2/12

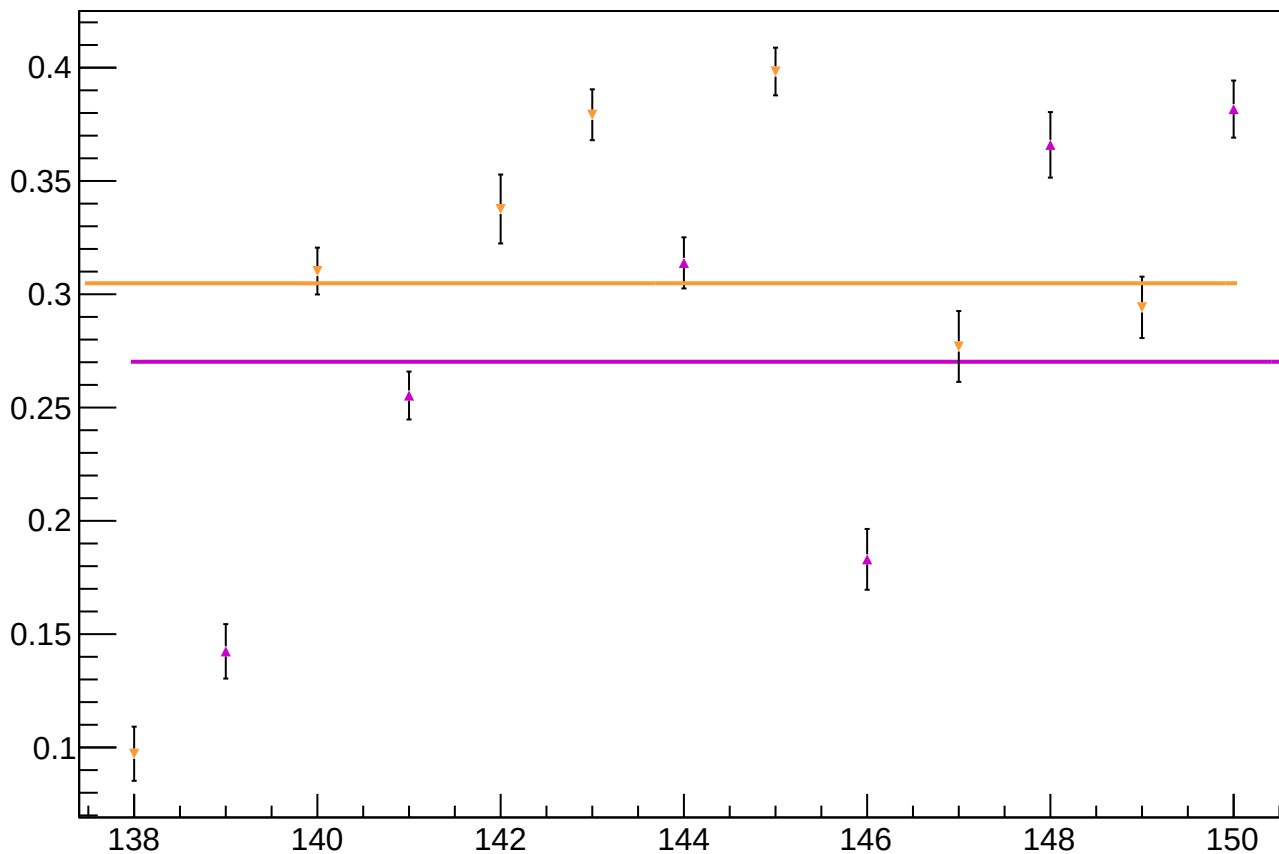
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 41.818+/-0.100  $\chi^2/\text{NDF}$ : 4349.7/5

Out: 40.093+/-0.092  $\chi^2/\text{NDF}$ : 4177.1/6

All: 40.889+/-0.068  $\chi^2/\text{NDF}$ : 8688.2/12

reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug, Sign Corrected

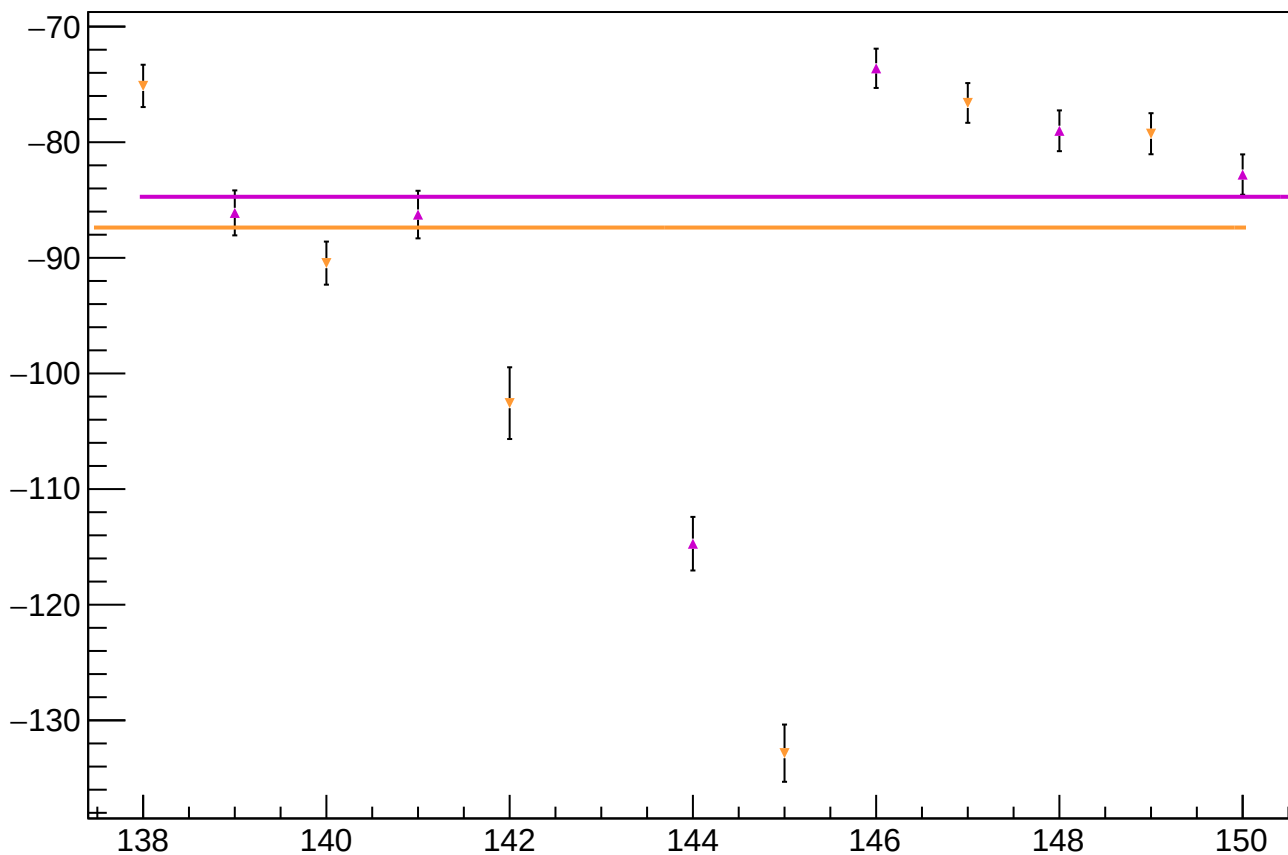


Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.305+/-0.005     $\chi^2/\text{NDF}$ :433.6/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.270+/-0.005     $\chi^2/\text{NDF}$ :294.5/5

Left: 0.289+/-0.003     $\chi^2/\text{NDF}$ : 754.2/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.270+/-0.005     $\chi^2/\text{NDF}$ :294.5/5  
 Out: 0.305+/-0.005     $\chi^2/\text{NDF}$ :433.6/6  
 All: 0.289+/-0.003     $\chi^2/\text{NDF}$ : 754.2/12



reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -87.379+/-0.814  $\chi^2/\text{NDF}$ :468.9/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -84.719+/-0.771  $\chi^2/\text{NDF}$ :223.1/5

Left: -85.977+/-0.560  $\chi^2/\text{NDF}$ : 697.6/11

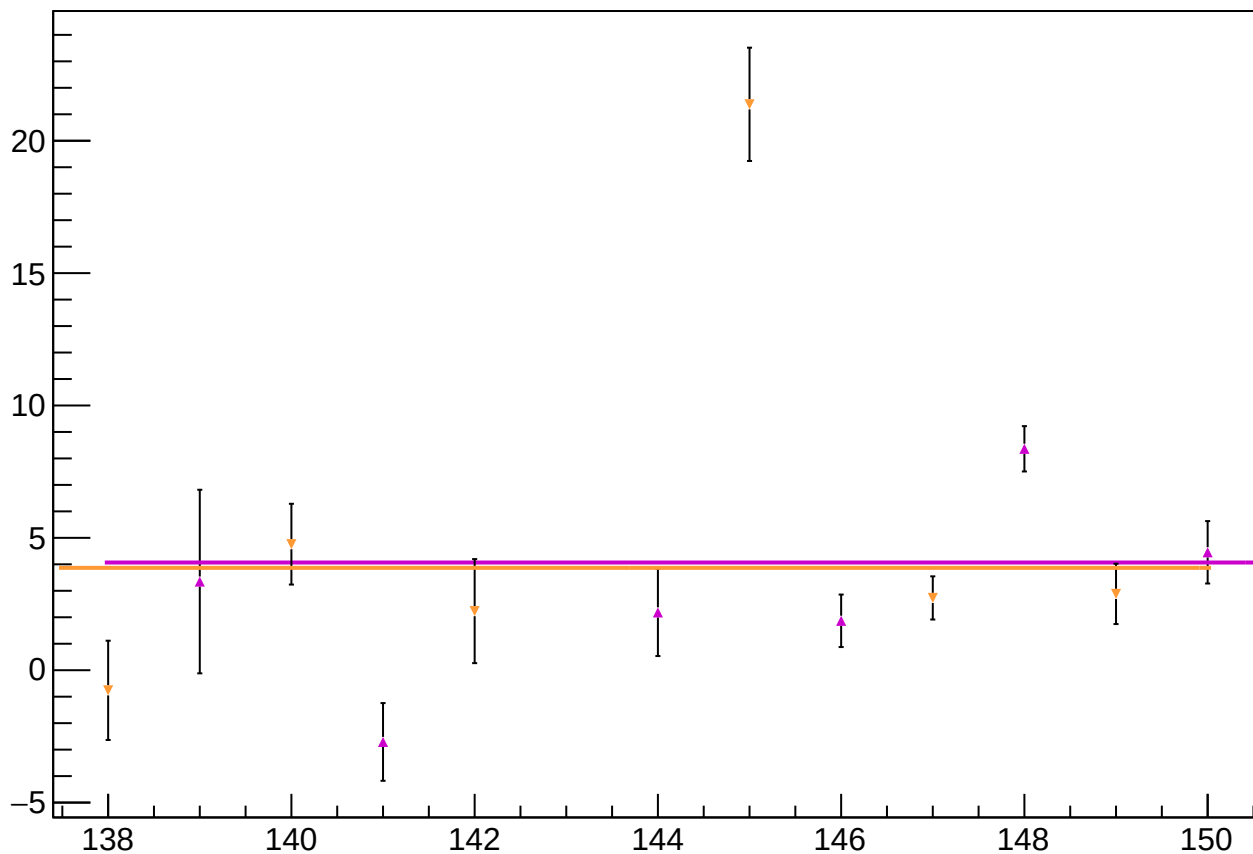
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -84.719+/-0.771  $\chi^2/\text{NDF}$ :223.1/5

Out: -87.379+/-0.814  $\chi^2/\text{NDF}$ :468.9/5

All: -85.977+/-0.560  $\chi^2/\text{NDF}$ : 697.6/11

reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.867 $\pm$ 0.537  $\chi^2$ /NDF:76.8/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 4.068 $\pm$ 0.499  $\chi^2$ /NDF:52.9/5

Left: 3.975 $\pm$ 0.366  $\chi^2$ /NDF: 129.7/11

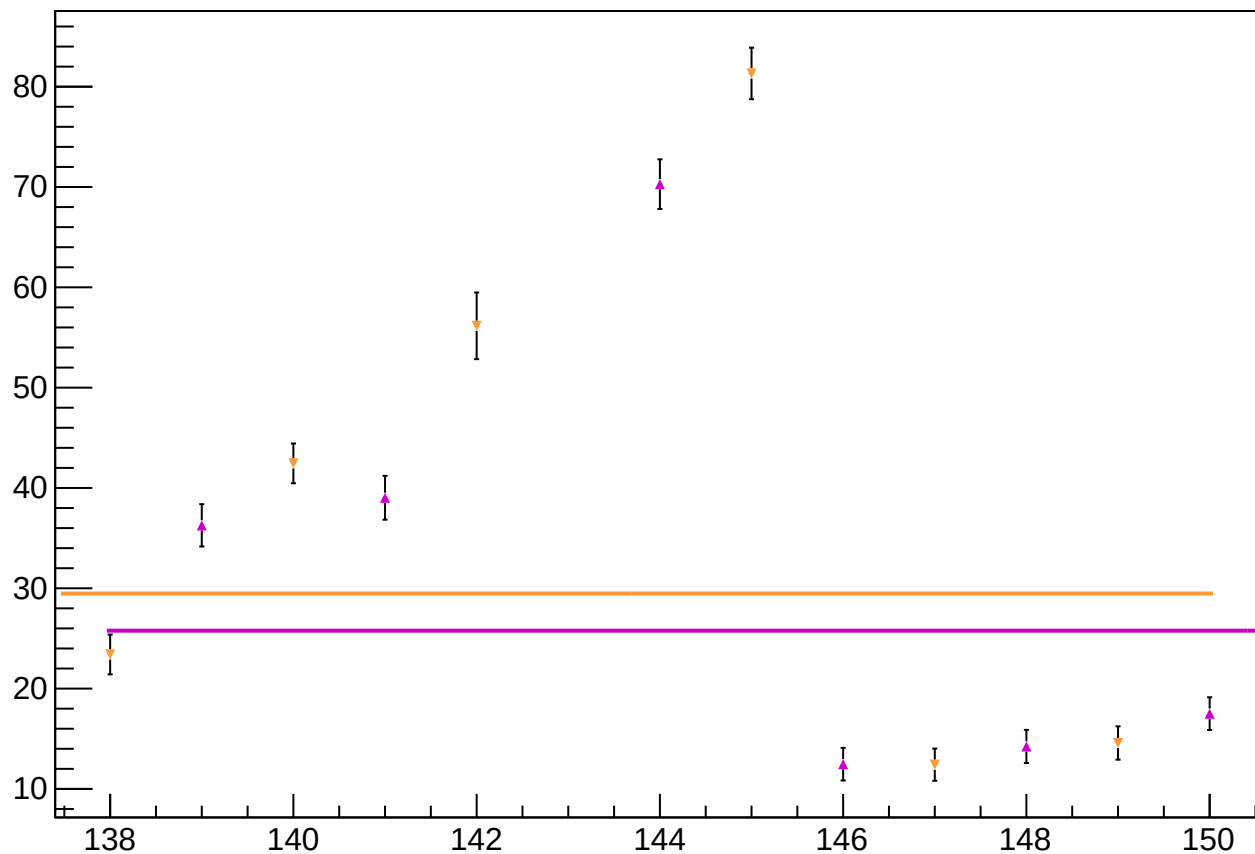
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 4.068 $\pm$ 0.499  $\chi^2$ /NDF:52.9/5

Out: 3.867 $\pm$ 0.537  $\chi^2$ /NDF:76.8/5

All: 3.975 $\pm$ 0.366  $\chi^2$ /NDF: 129.7/11

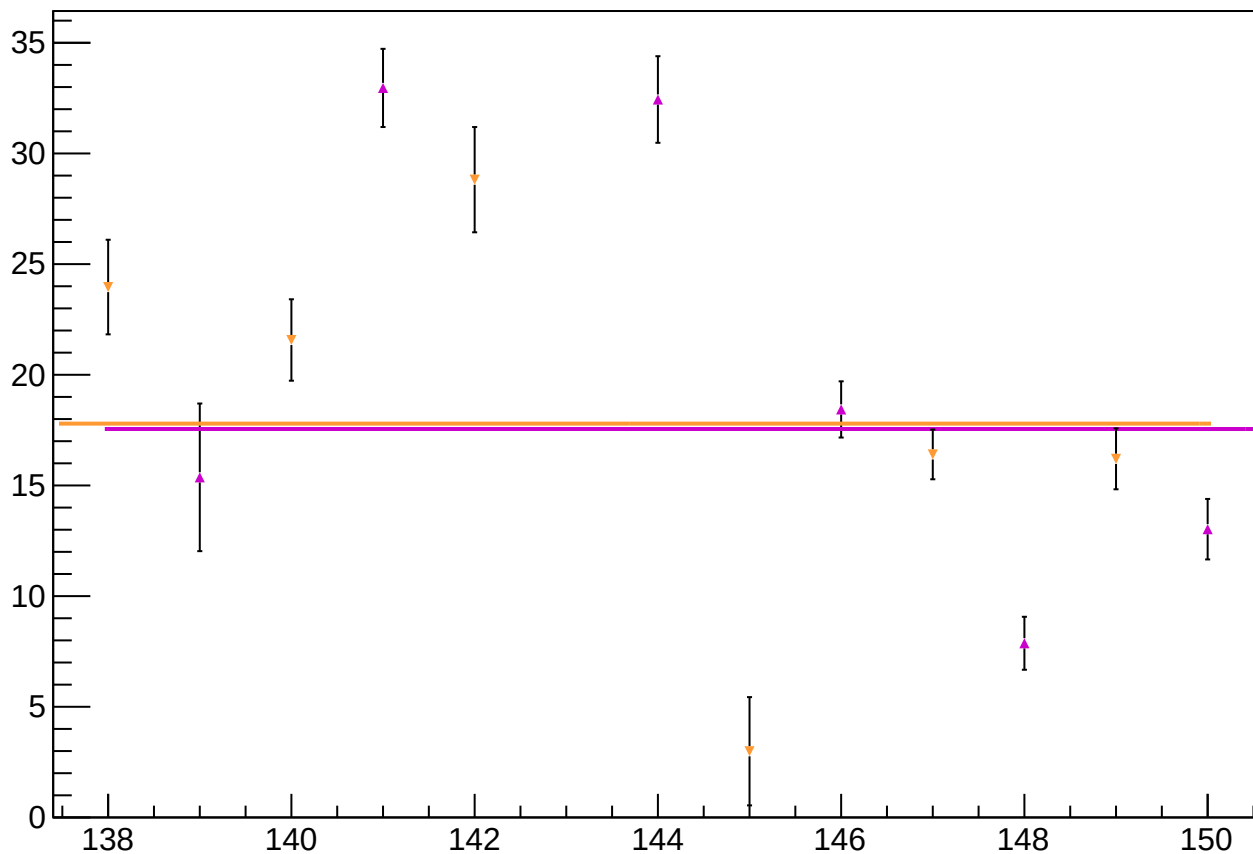
reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 29.476+/-0.816     $\chi^2/\text{NDF}$ : 717.5/5  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 25.776+/-0.763     $\chi^2/\text{NDF}$ : 525.5/5

Left: 27.502+/-0.557     $\chi^2/\text{NDF}$ : 1254.0/11  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 25.776+/-0.763     $\chi^2/\text{NDF}$ : 525.5/5  
 Out: 29.476+/-0.816     $\chi^2/\text{NDF}$ : 717.5/5  
 All: 27.502+/-0.557     $\chi^2/\text{NDF}$ : 1254.0/11

reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 17.794+/-0.677  $\chi^2/\text{NDF}$ :73.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 17.550+/-0.629  $\chi^2/\text{NDF}$ :211.4/5

Left: 17.663+/-0.461  $\chi^2/\text{NDF}$ : 285.0/11

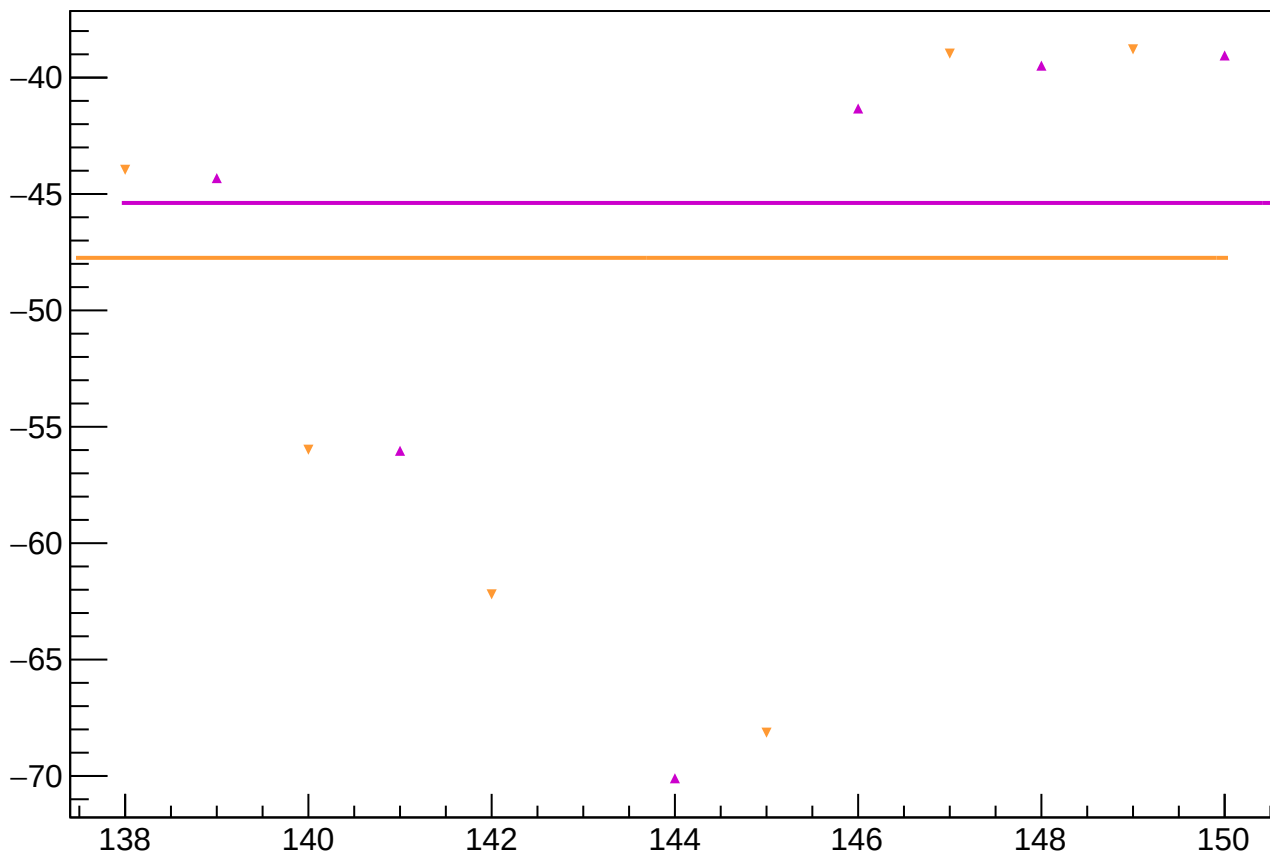
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 17.550+/-0.629  $\chi^2/\text{NDF}$ :211.4/5

Out: 17.794+/-0.677  $\chi^2/\text{NDF}$ :73.5/5

All: 17.663+/-0.461  $\chi^2/\text{NDF}$ : 285.0/11

reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -47.743+/-0.035  $\chi^2/\text{NDF}$ : 92281.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -45.384+/-0.032  $\chi^2/\text{NDF}$ : 84808.1/5

Left: -46.452+/-0.024  $\chi^2/\text{NDF}$ : 179578.7/11

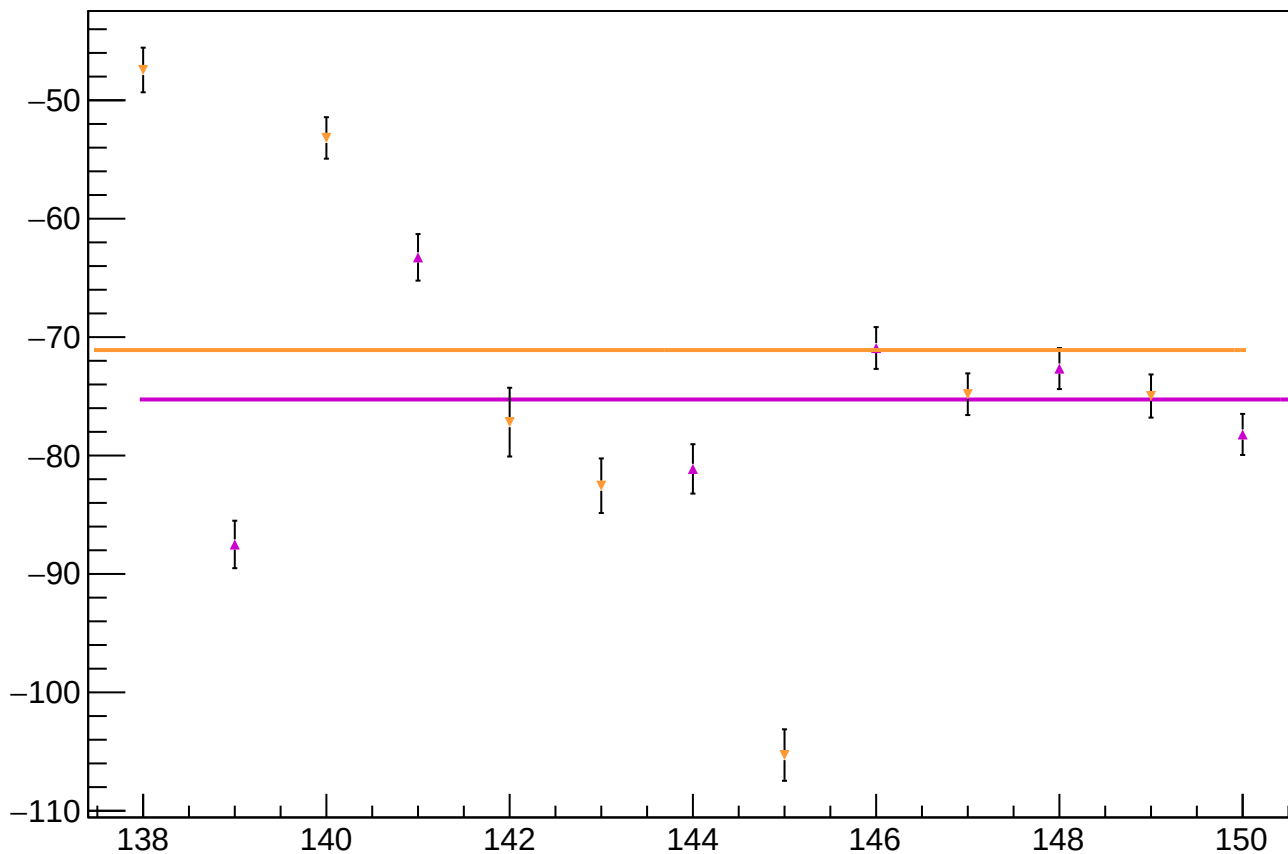
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -45.384+/-0.032  $\chi^2/\text{NDF}$ : 84808.1/5

Out: -47.743+/-0.035  $\chi^2/\text{NDF}$ : 92281.7/5

All: -46.452+/-0.024  $\chi^2/\text{NDF}$ : 179578.7/11

reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -71.092+/-0.756  $\chi^2/\text{NDF}$ :547.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -75.267+/-0.762  $\chi^2/\text{NDF}$ :93.7/5

Left: -73.164+/-0.537  $\chi^2/\text{NDF}$ : 656.5/12

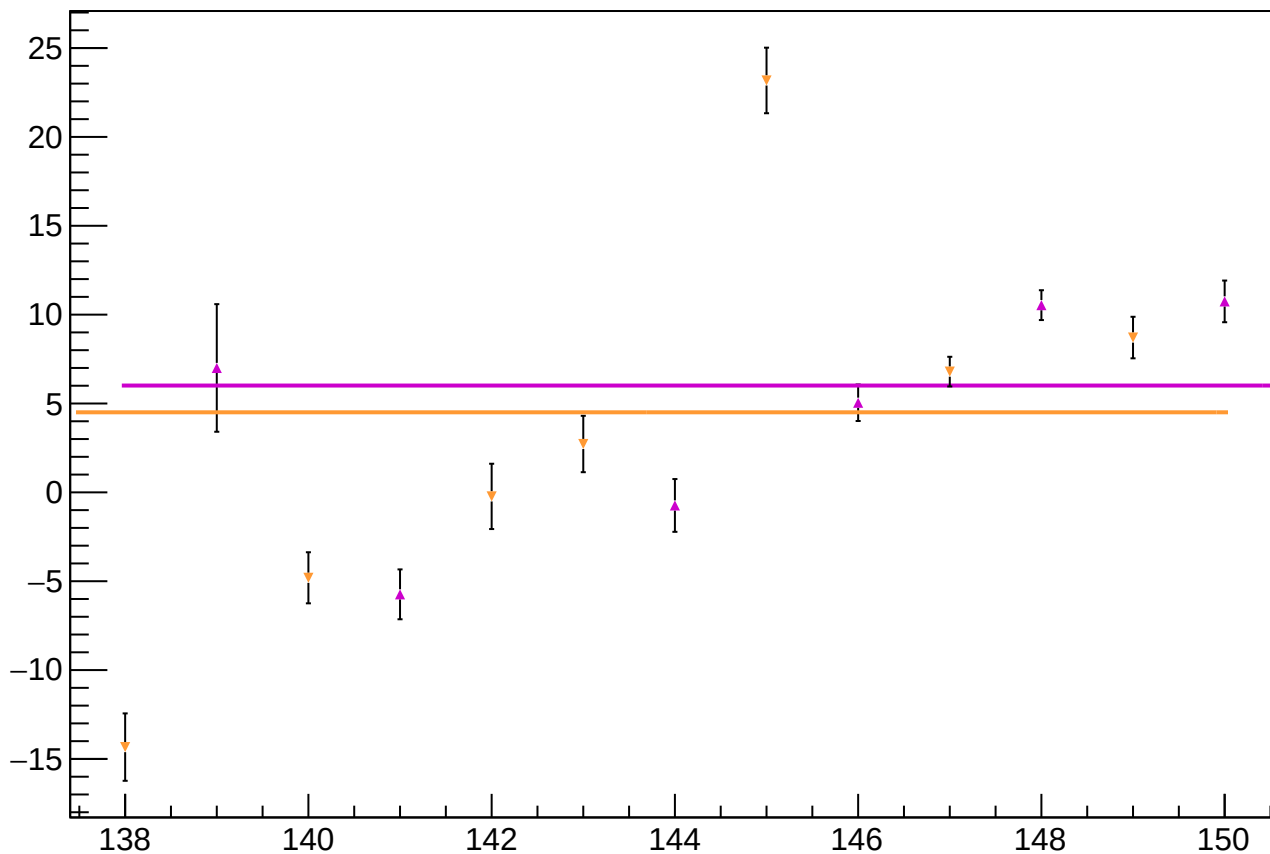
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -75.267+/-0.762  $\chi^2/\text{NDF}$ :93.7/5

Out: -71.092+/-0.756  $\chi^2/\text{NDF}$ :547.6/6

All: -73.164+/-0.537  $\chi^2/\text{NDF}$ : 656.5/12

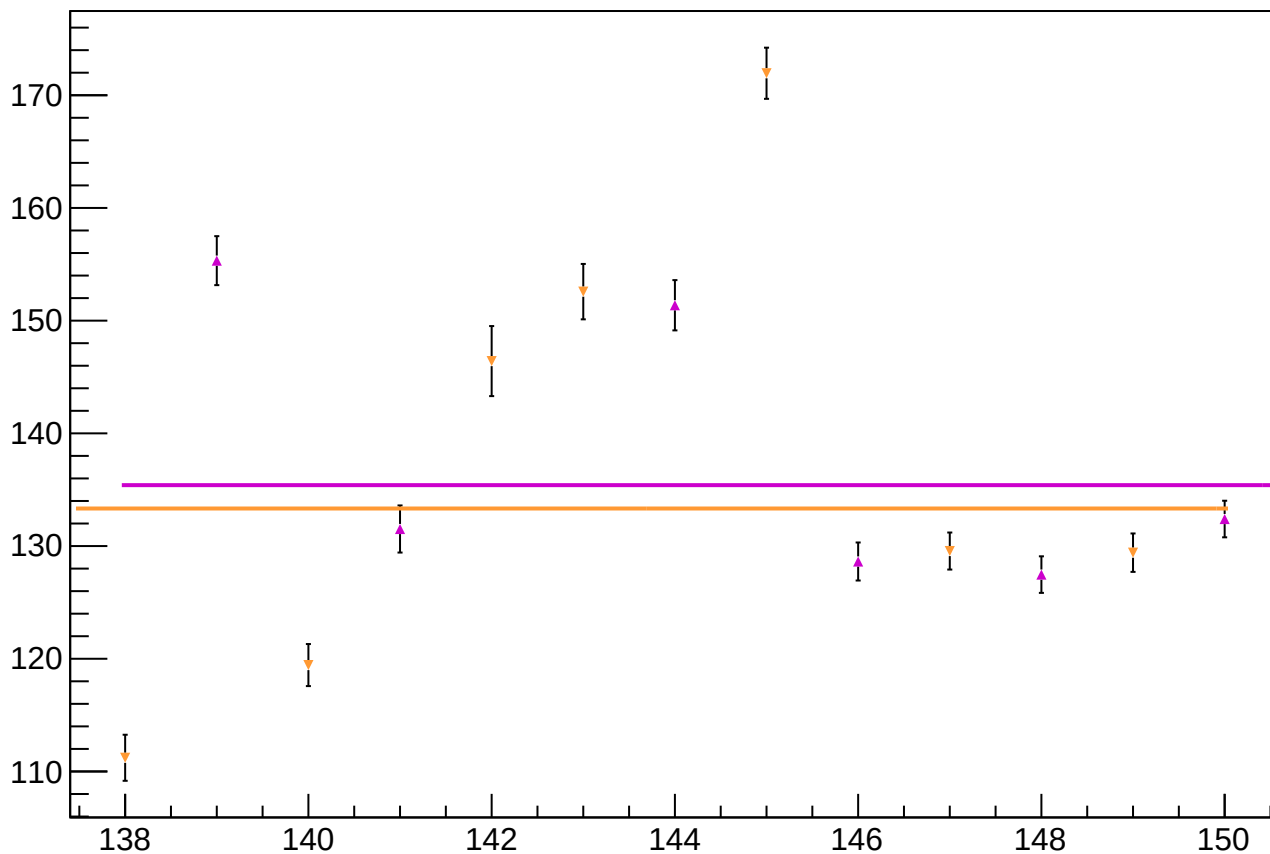
reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.504 $\pm$ 0.505  $\chi^2$ /NDF:271.5/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 6.010 $\pm$ 0.492  $\chi^2$ /NDF:137.1/5

Left: 5.277 $\pm$ 0.352  $\chi^2$ /NDF: 413.1/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 6.010 $\pm$ 0.492  $\chi^2$ /NDF:137.1/5  
 Out: 4.504 $\pm$ 0.505  $\chi^2$ /NDF:271.5/6  
 All: 5.277 $\pm$ 0.352  $\chi^2$ /NDF: 413.1/12

reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 133.332 $\pm$ 0.766  $\chi^2$ /NDF:551.6/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 135.404 $\pm$ 0.755  $\chi^2$ /NDF:182.2/5

Left: 134.383 $\pm$ 0.538  $\chi^2$ /NDF: 737.5/12

Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

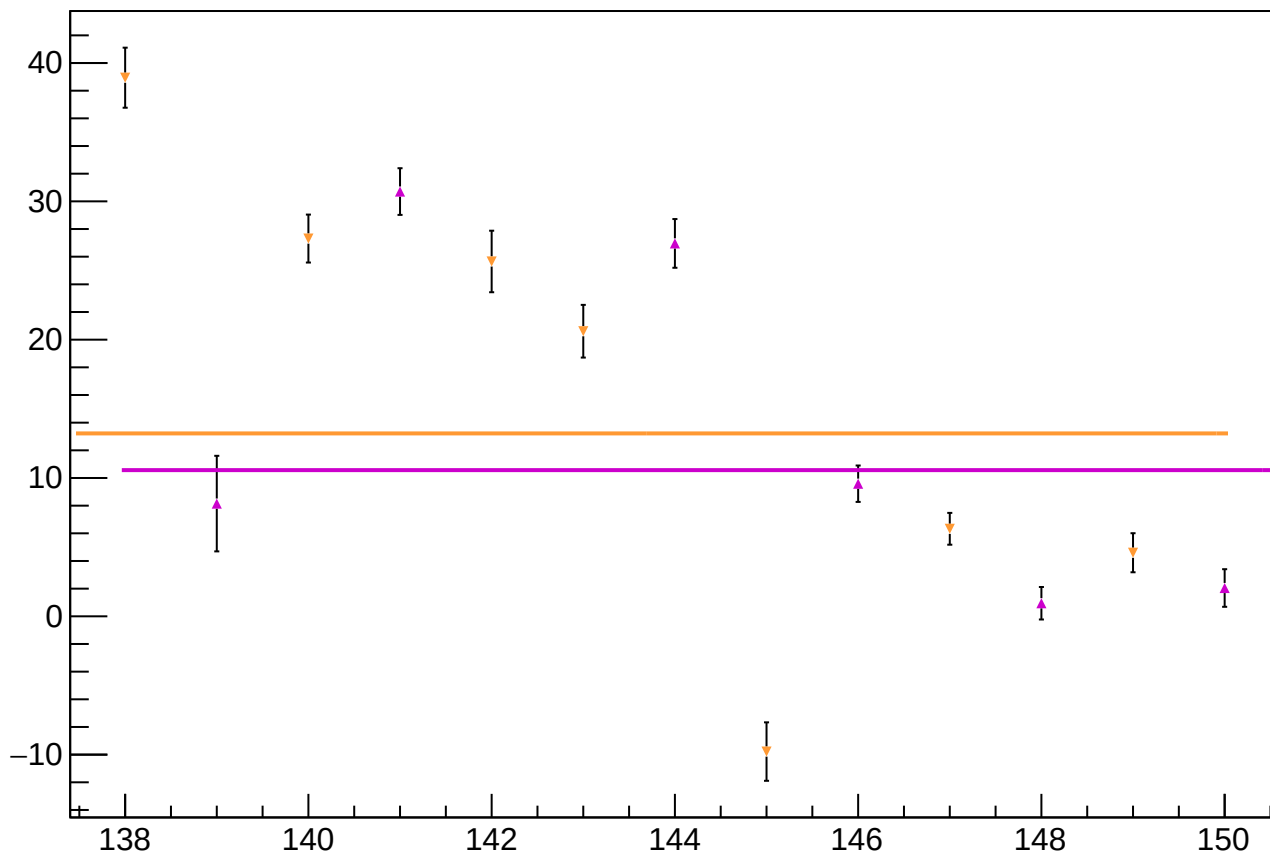
In: 135.404 $\pm$ 0.755  $\chi^2$ /NDF:182.2/5

Out: 133.332 $\pm$ 0.766  $\chi^2$ /NDF:551.6/6

All: 134.383 $\pm$ 0.538  $\chi^2$ /NDF: 737.5/12



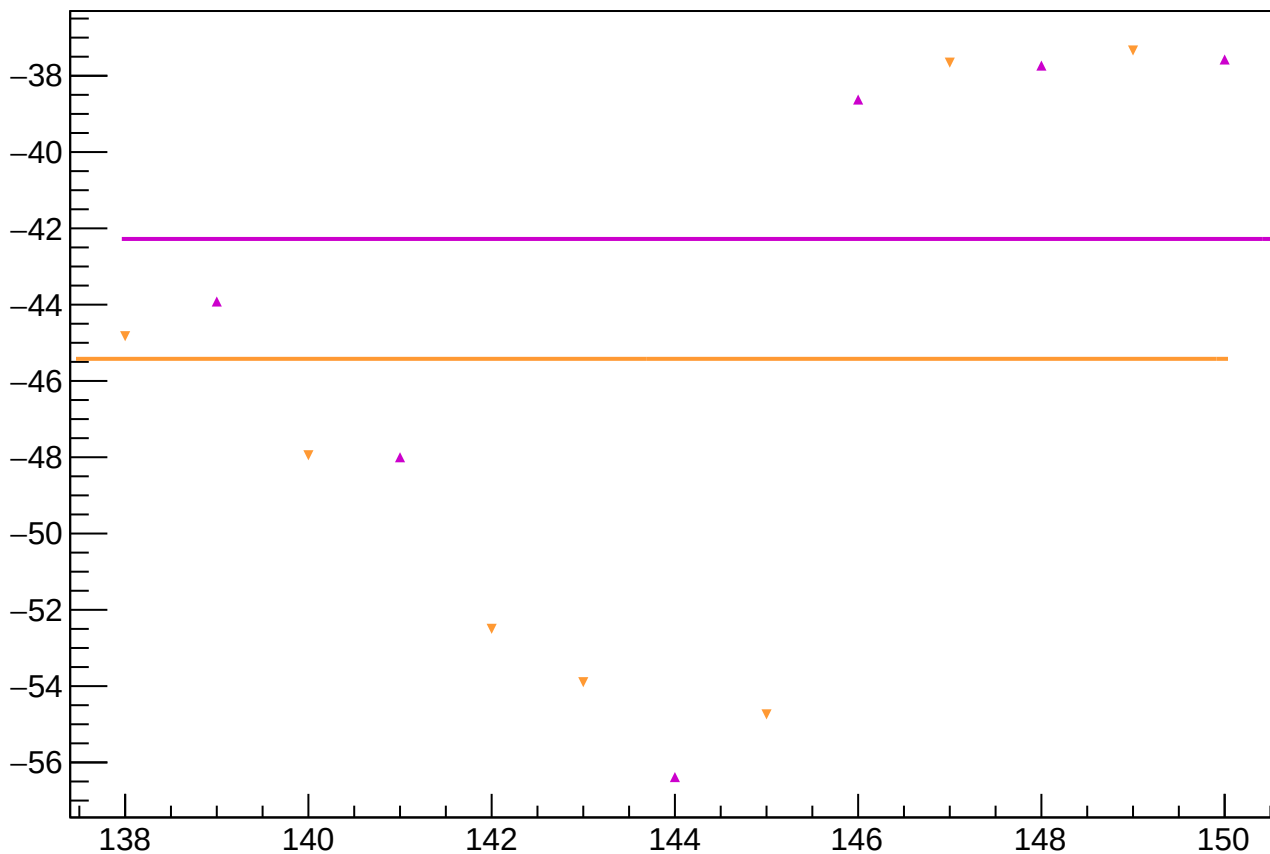
reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 13.223+/-0.632     $\chi^2/\text{NDF}$ :444.5/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 10.569+/-0.620     $\chi^2/\text{NDF}$ :336.5/5

Left: 11.871+/-0.443     $\chi^2/\text{NDF}$ : 790.0/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 10.569+/-0.620     $\chi^2/\text{NDF}$ :336.5/5  
 Out: 13.223+/-0.632     $\chi^2/\text{NDF}$ :444.5/6  
 All: 11.871+/-0.443     $\chi^2/\text{NDF}$ : 790.0/12

reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -45.420+/-0.033  $\chi^2/\text{NDF}$ :44405.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -42.278+/-0.032  $\chi^2/\text{NDF}$ :37231.2/5

Left: -43.800+/-0.023  $\chi^2/\text{NDF}$ : 86448.1/12

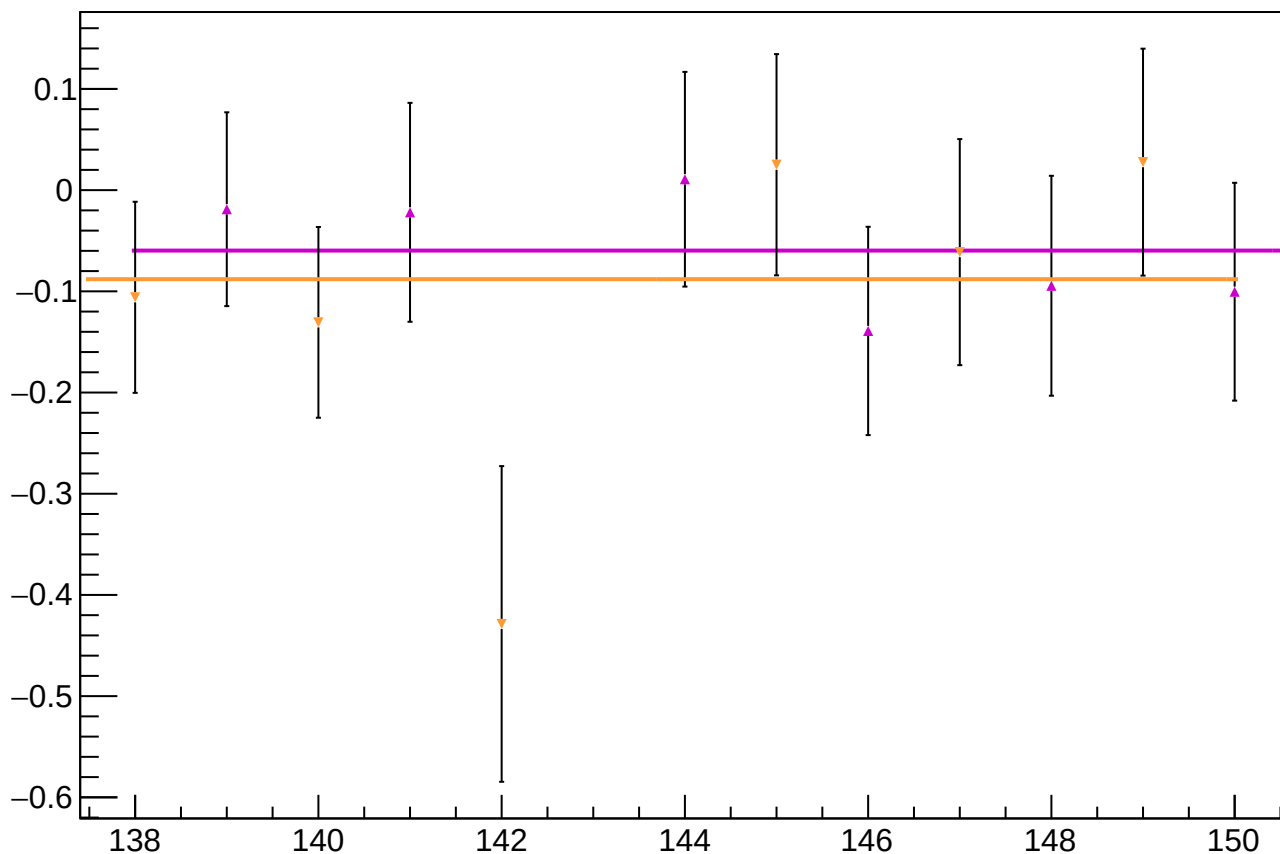
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -42.278+/-0.032  $\chi^2/\text{NDF}$ :37231.2/5

Out: -45.420+/-0.033  $\chi^2/\text{NDF}$ :44405.5/6

All: -43.800+/-0.023  $\chi^2/\text{NDF}$ : 86448.1/12

reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.088 $\pm$ 0.044  $\chi^2$ /NDF:7.2/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.060 $\pm$ 0.043  $\chi^2$ /NDF:1.6/5

Left: -0.073 $\pm$ 0.031  $\chi^2$ /NDF: 9.0/11

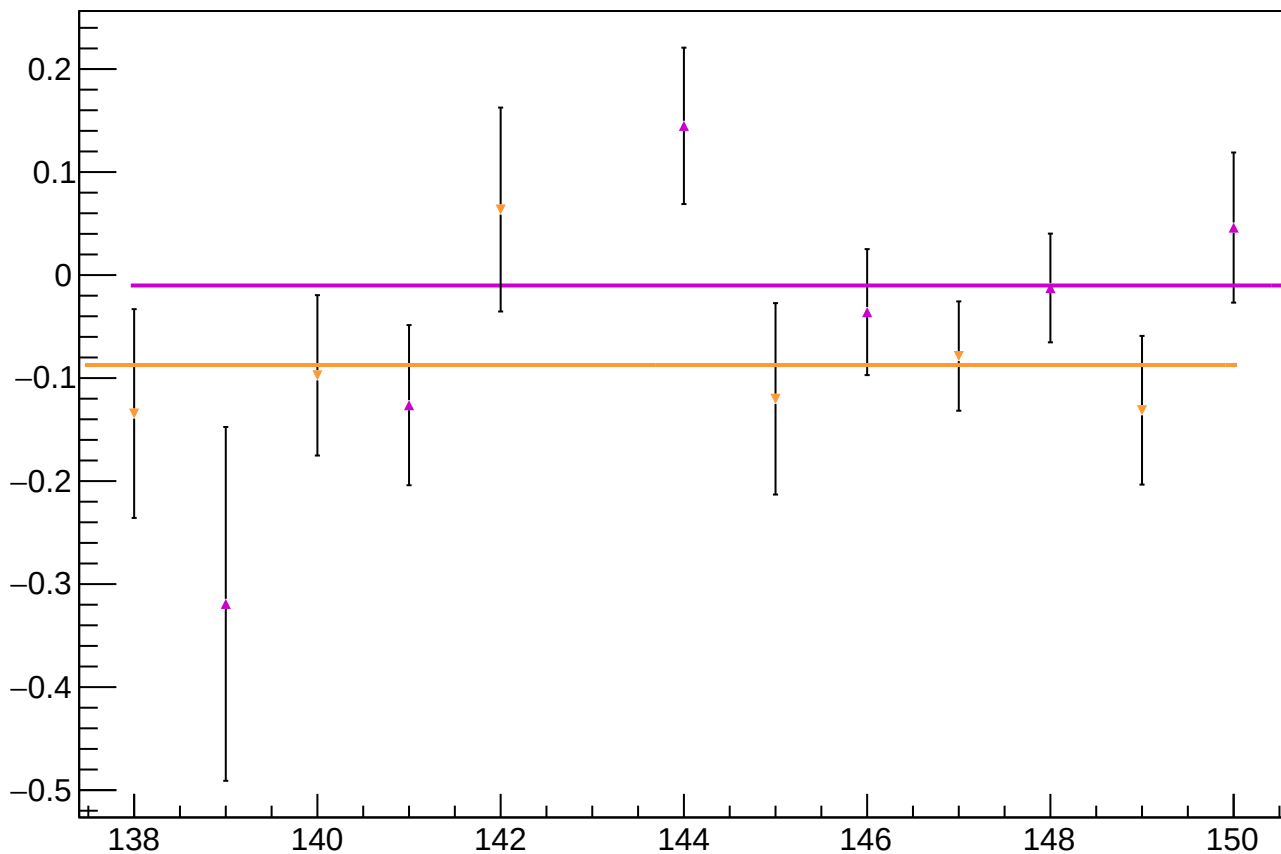
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.060 $\pm$ 0.043  $\chi^2$ /NDF:1.6/5

Out: -0.088 $\pm$ 0.044  $\chi^2$ /NDF:7.2/5

All: -0.073 $\pm$ 0.031  $\chi^2$ /NDF: 9.0/11

reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.087+/-0.031  $\chi^2/\text{NDF}$ : 3.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.010+/-0.029  $\chi^2/\text{NDF}$ : 10.4/5

Left: -0.046+/-0.021  $\chi^2/\text{NDF}$ : 16.8/11

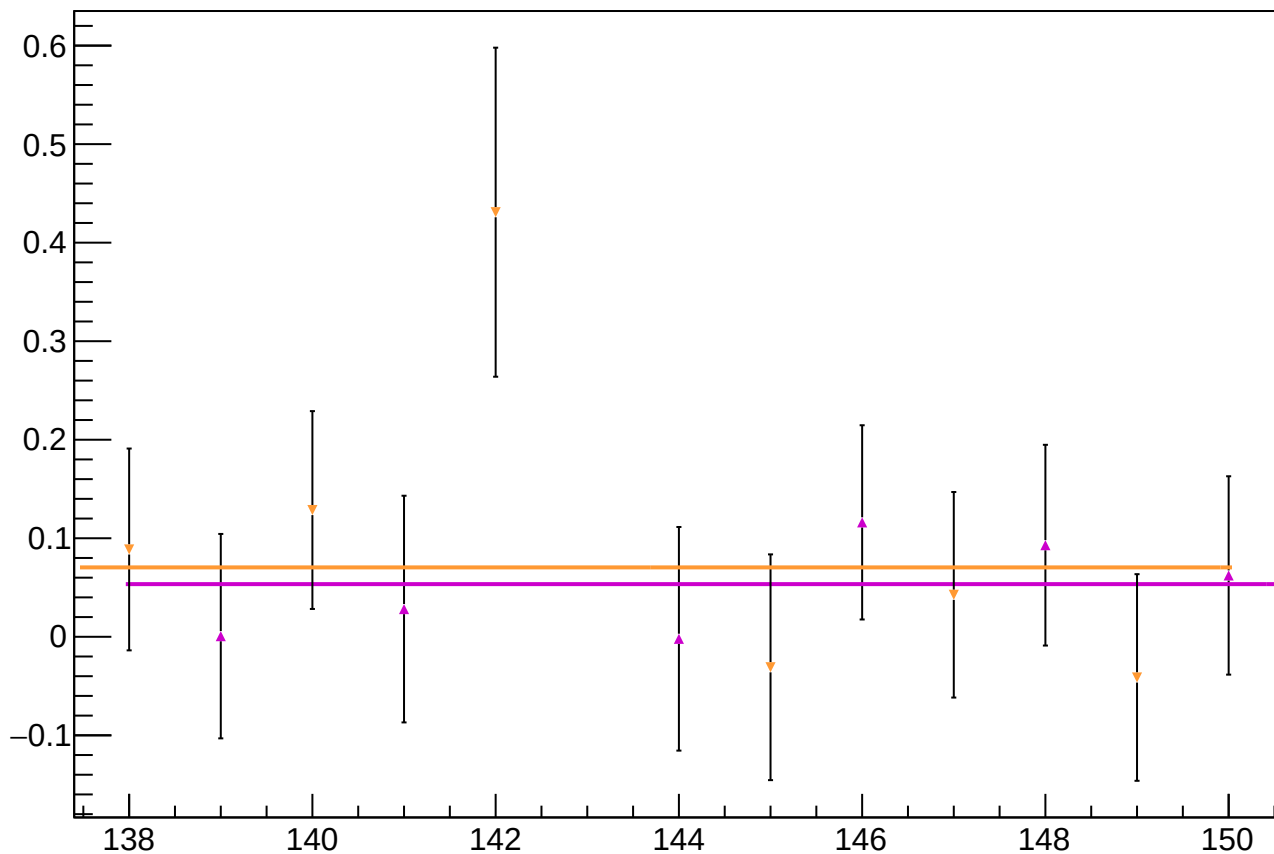
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.010+/-0.029  $\chi^2/\text{NDF}$ : 10.4/5

Out: -0.087+/-0.031  $\chi^2/\text{NDF}$ : 3.1/5

All: -0.046+/-0.021  $\chi^2/\text{NDF}$ : 16.8/11

reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.070 $\pm$ 0.045  $\chi^2$ /NDF:7.0/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.053 $\pm$ 0.043  $\chi^2$ /NDF:1.1/5

Left: 0.061 $\pm$ 0.031  $\chi^2$ /NDF: 8.2/11

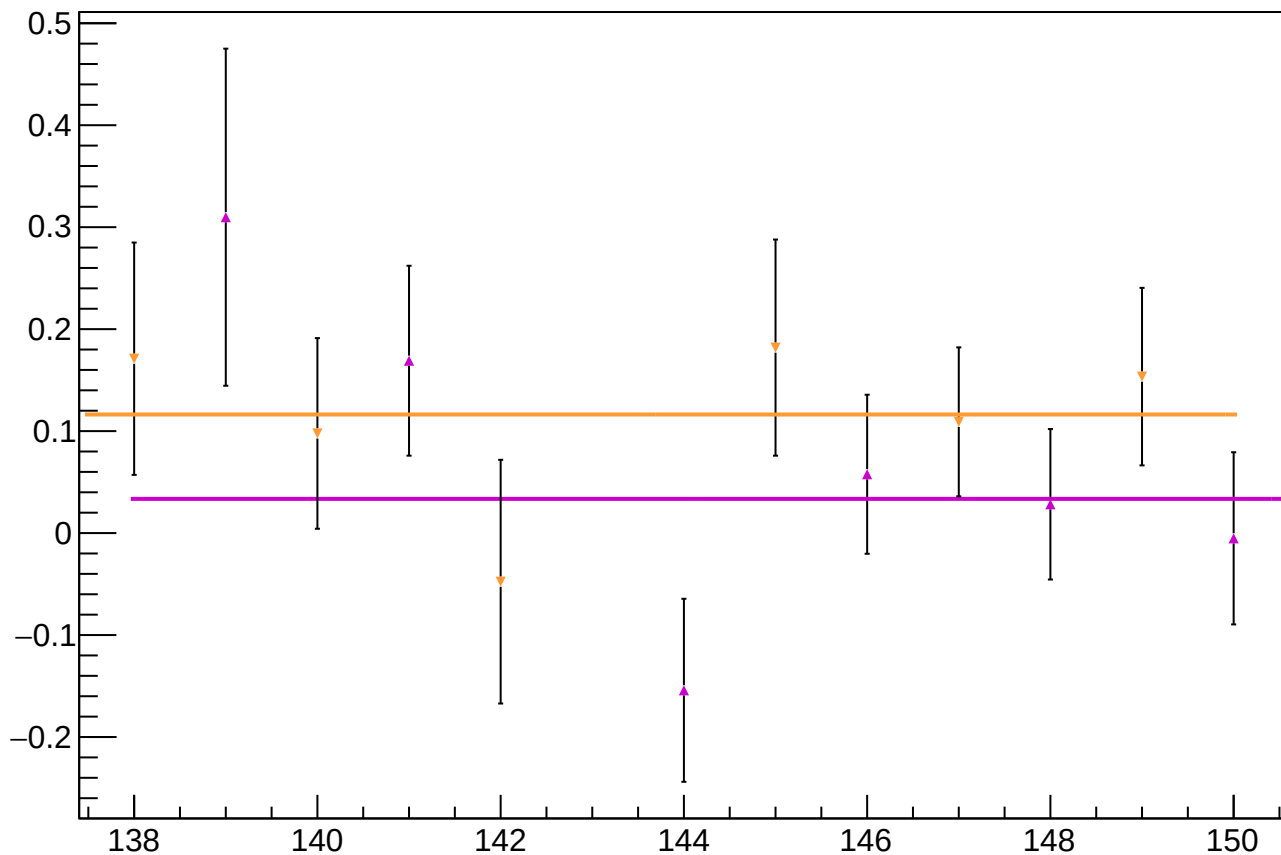
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.053 $\pm$ 0.043  $\chi^2$ /NDF:1.1/5

Out: 0.070 $\pm$ 0.045  $\chi^2$ /NDF:7.0/5

All: 0.061 $\pm$ 0.031  $\chi^2$ /NDF: 8.2/11

reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.116 $\pm$ 0.039  $\chi^2$ /NDF:2.7/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.034 $\pm$ 0.036  $\chi^2$ /NDF:9.6/5

Left: 0.072 $\pm$ 0.026  $\chi^2$ /NDF: 14.8/11

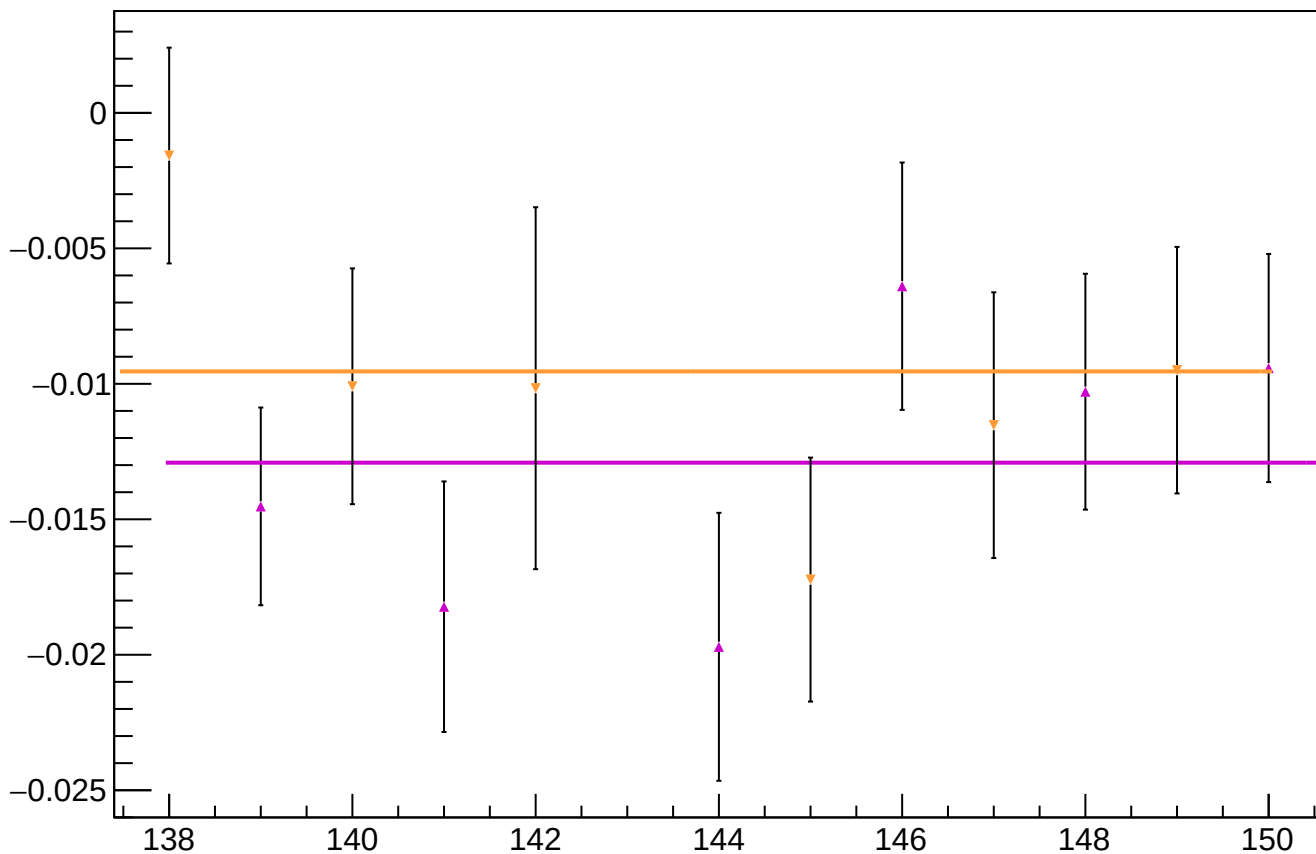
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.034 $\pm$ 0.036  $\chi^2$ /NDF:9.6/5

Out: 0.116 $\pm$ 0.039  $\chi^2$ /NDF:2.7/5

All: 0.072 $\pm$ 0.026  $\chi^2$ /NDF: 14.8/11

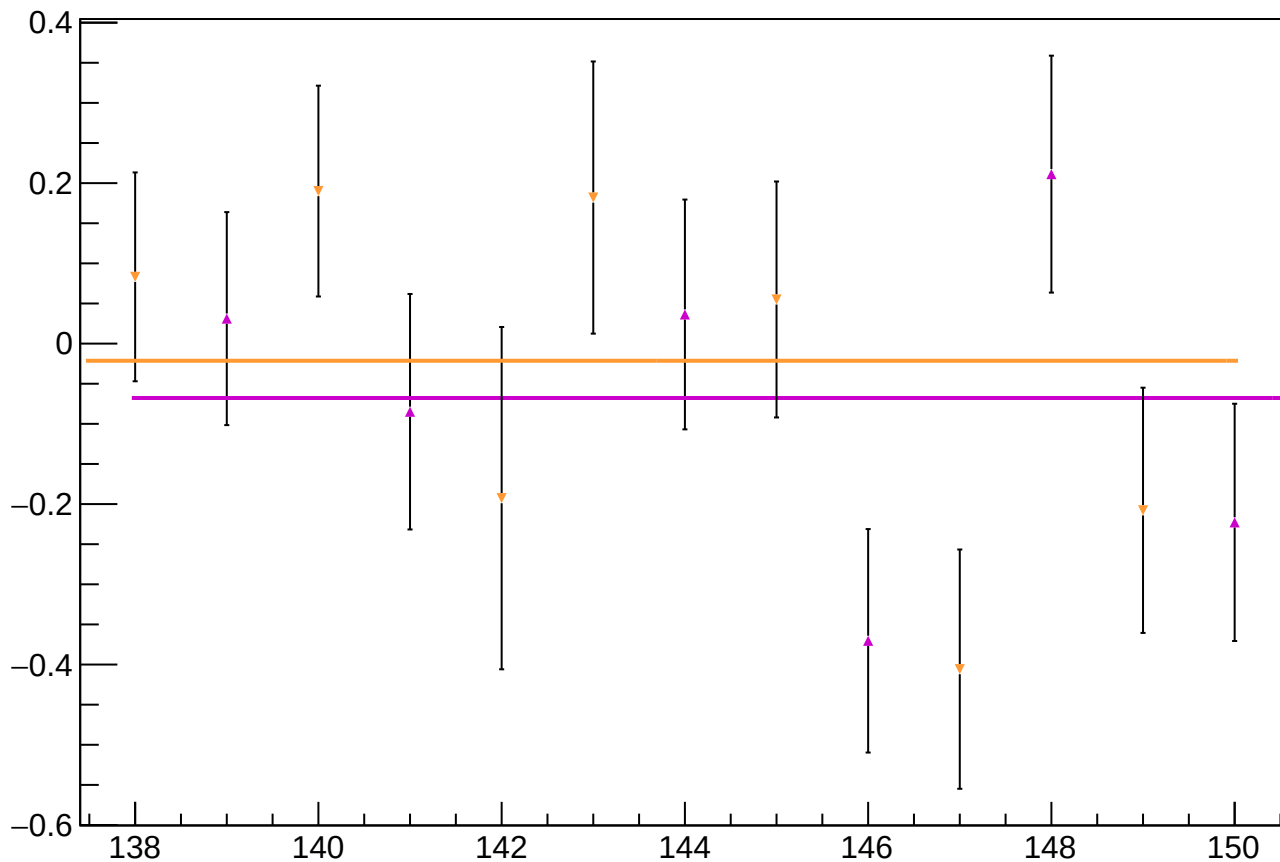
reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.010+/-0.002  $\chi^2/\text{NDF}$ : 7.1/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.013+/-0.002  $\chi^2/\text{NDF}$ : 6.5/5

Left: -0.011+/-0.001  $\chi^2/\text{NDF}$ : 15.3/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.013+/-0.002  $\chi^2/\text{NDF}$ : 6.5/5  
 Out: -0.010+/-0.002  $\chi^2/\text{NDF}$ : 7.1/5  
 All: -0.011+/-0.001  $\chi^2/\text{NDF}$ : 15.3/11

reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.021+/-0.057  $\chi^2/\text{NDF}$ :13.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.068+/-0.058  $\chi^2/\text{NDF}$ :10.5/5

Left: -0.044+/-0.041  $\chi^2/\text{NDF}$ : 24.5/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

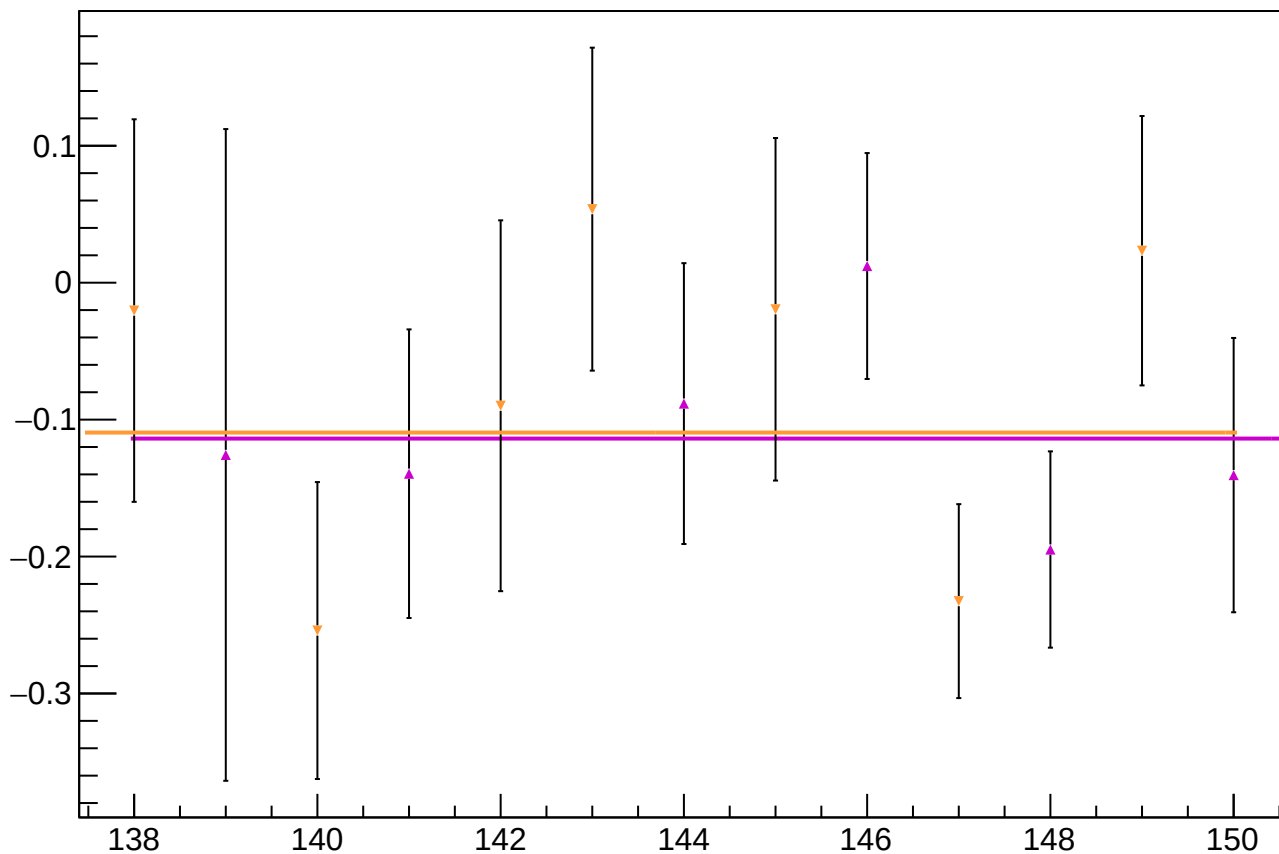
In: -0.068+/-0.058  $\chi^2/\text{NDF}$ :10.5/5

Out: -0.021+/-0.057  $\chi^2/\text{NDF}$ :13.7/6

All: -0.044+/-0.041  $\chi^2/\text{NDF}$ : 24.5/12



reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.109+/-0.040  $\chi^2/\text{NDF}$ : 9.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.114+/-0.039  $\chi^2/\text{NDF}$ : 3.8/5

Left: -0.112+/-0.028  $\chi^2/\text{NDF}$ : 13.3/12

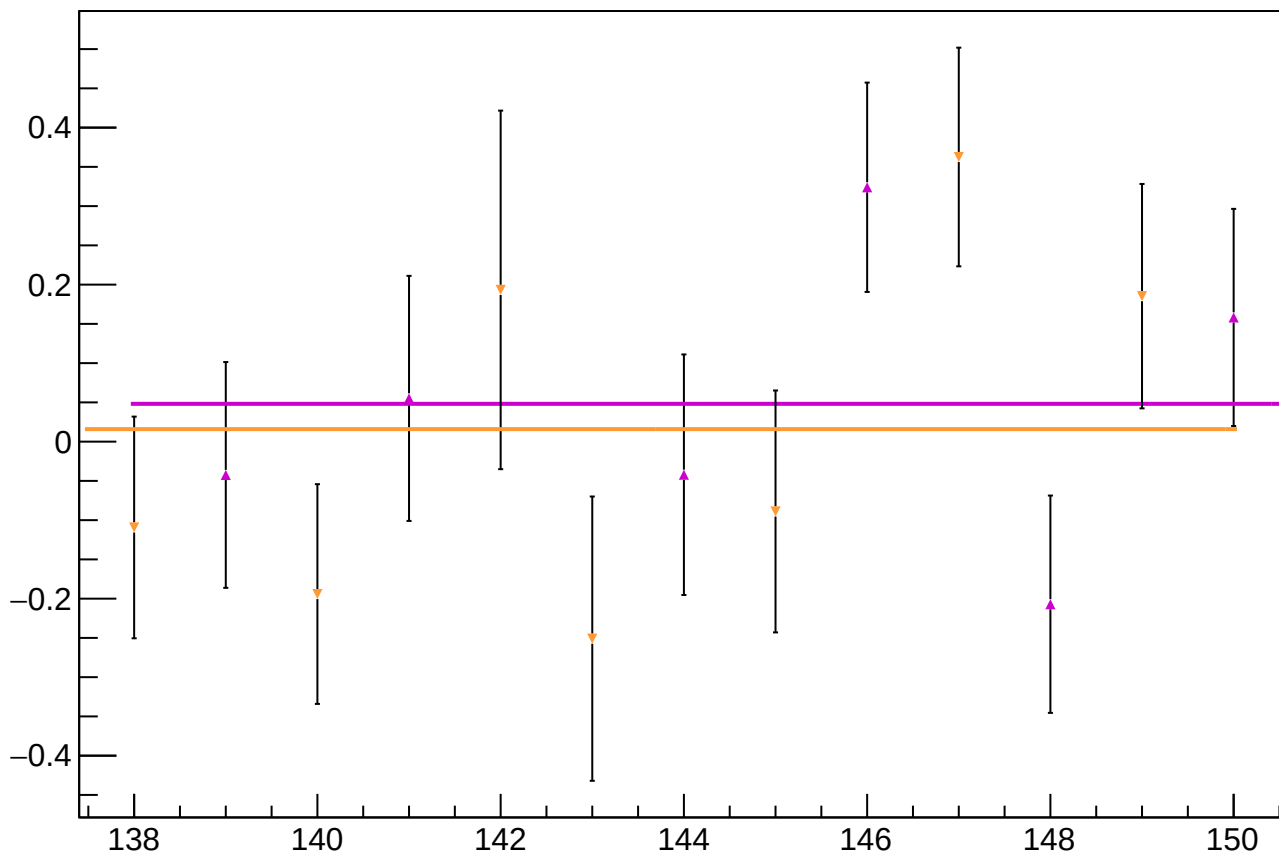
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.114+/-0.039  $\chi^2/\text{NDF}$ : 3.8/5

Out: -0.109+/-0.040  $\chi^2/\text{NDF}$ : 9.5/6

All: -0.112+/-0.028  $\chi^2/\text{NDF}$ : 13.3/12

reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.016 $\pm$ 0.058  $\chi^2$ /NDF:13.9/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.048 $\pm$ 0.058  $\chi^2$ /NDF:9.1/5

Left: 0.032 $\pm$ 0.041  $\chi^2$ /NDF: 23.1/12

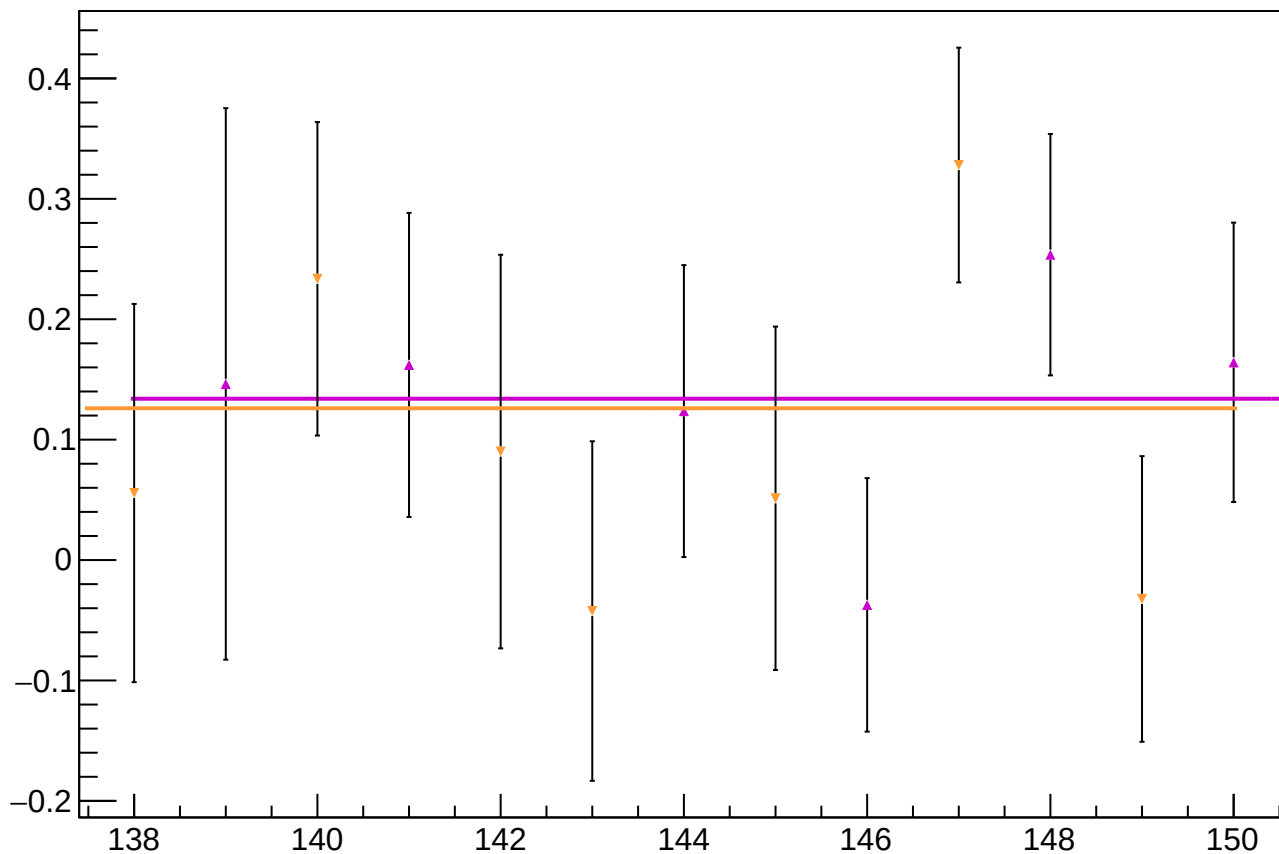
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.048 $\pm$ 0.058  $\chi^2$ /NDF:9.1/5

Out: 0.016 $\pm$ 0.058  $\chi^2$ /NDF:13.9/6

All: 0.032 $\pm$ 0.041  $\chi^2$ /NDF: 23.1/12

reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.126 $\pm$ 0.049  $\chi^2$ /NDF:8.7/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.134 $\pm$ 0.049  $\chi^2$ /NDF:4.2/5

Left: 0.130 $\pm$ 0.035  $\chi^2$ /NDF: 12.9/12

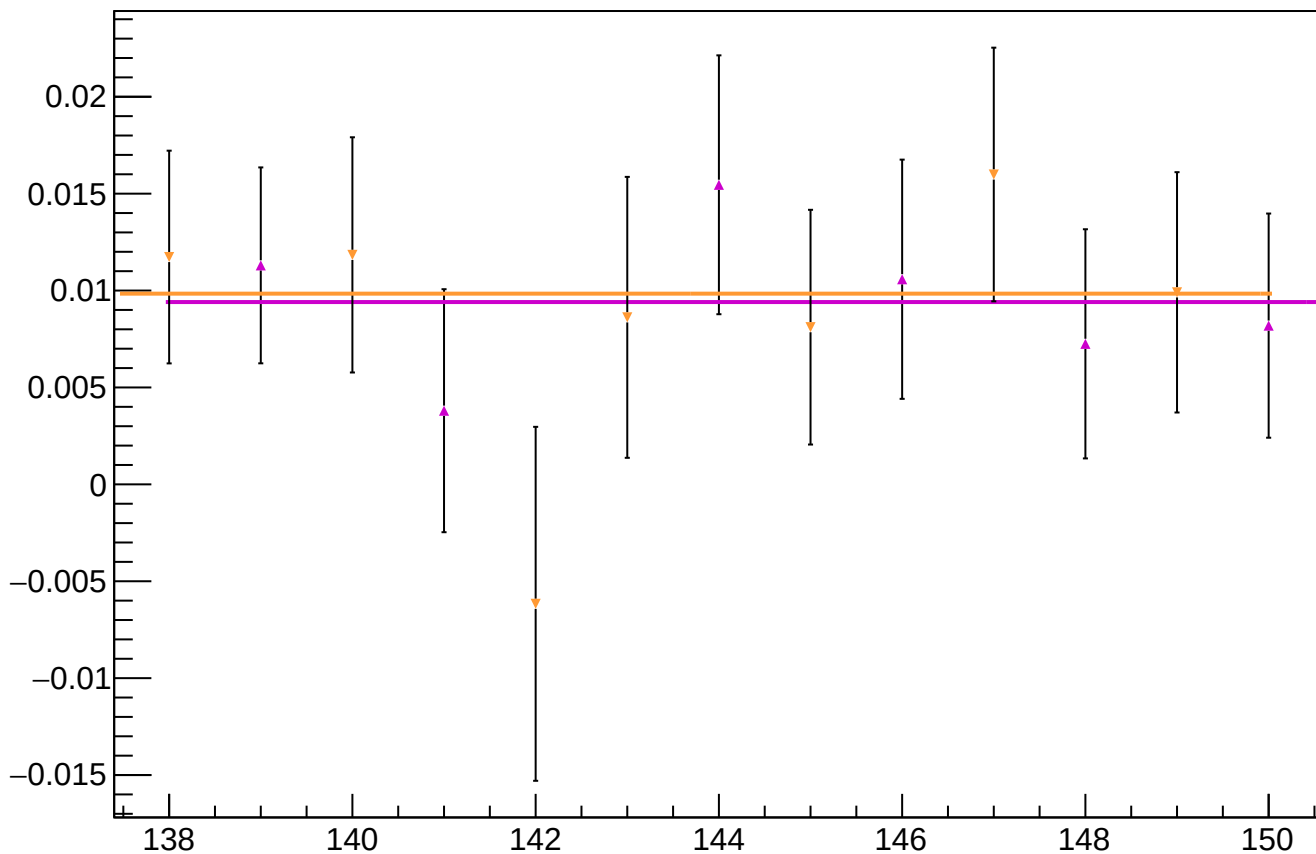
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.134 $\pm$ 0.049  $\chi^2$ /NDF:4.2/5

Out: 0.126 $\pm$ 0.049  $\chi^2$ /NDF:8.7/6

All: 0.130 $\pm$ 0.035  $\chi^2$ /NDF: 12.9/12

reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.010 $\pm$ 0.002  $\chi^2$ /NDF:4.3/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.009 $\pm$ 0.002  $\chi^2$ /NDF:2.0/5

Left: 0.010 $\pm$ 0.002  $\chi^2$ /NDF: 6.3/12

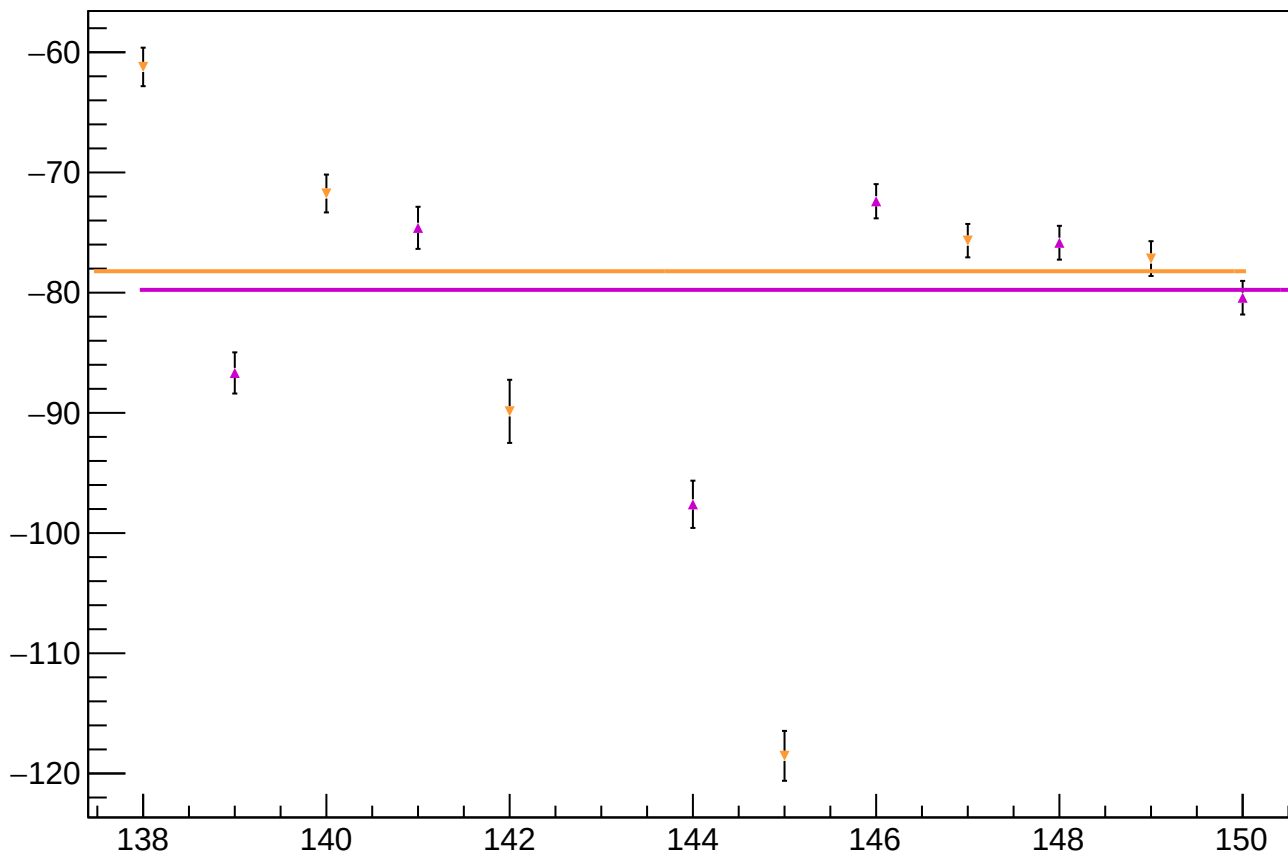
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.009 $\pm$ 0.002  $\chi^2$ /NDF:2.0/5

Out: 0.010 $\pm$ 0.002  $\chi^2$ /NDF:4.3/6

All: 0.010 $\pm$ 0.002  $\chi^2$ /NDF: 6.3/12

reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -78.216+/-0.680  $\chi^2/\text{NDF}$ :530.4/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -79.767+/-0.641  $\chi^2/\text{NDF}$ :142.2/5

Left: -79.037+/-0.466  $\chi^2/\text{NDF}$ : 675.3/11

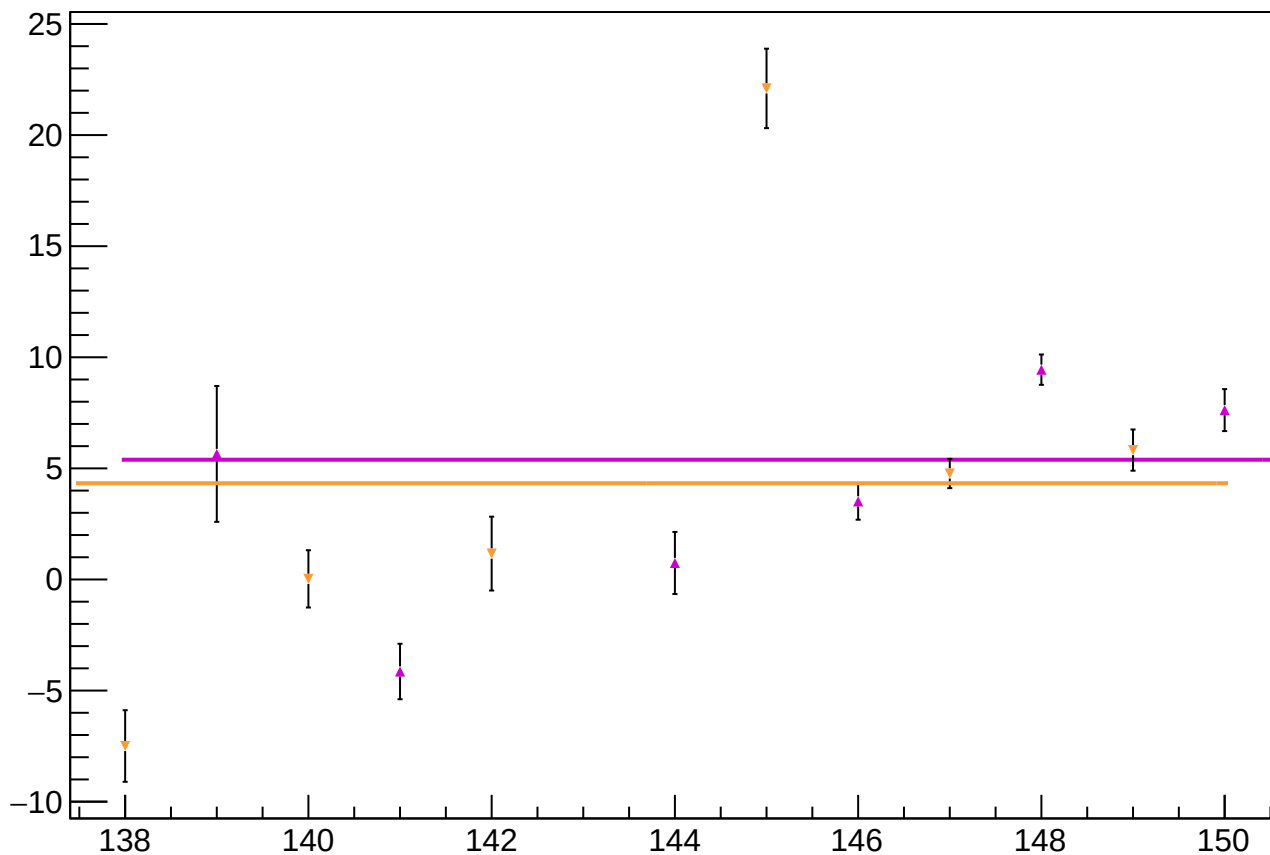
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -79.767+/-0.641  $\chi^2/\text{NDF}$ :142.2/5

Out: -78.216+/-0.680  $\chi^2/\text{NDF}$ :530.4/5

All: -79.037+/-0.466  $\chi^2/\text{NDF}$ : 675.3/11

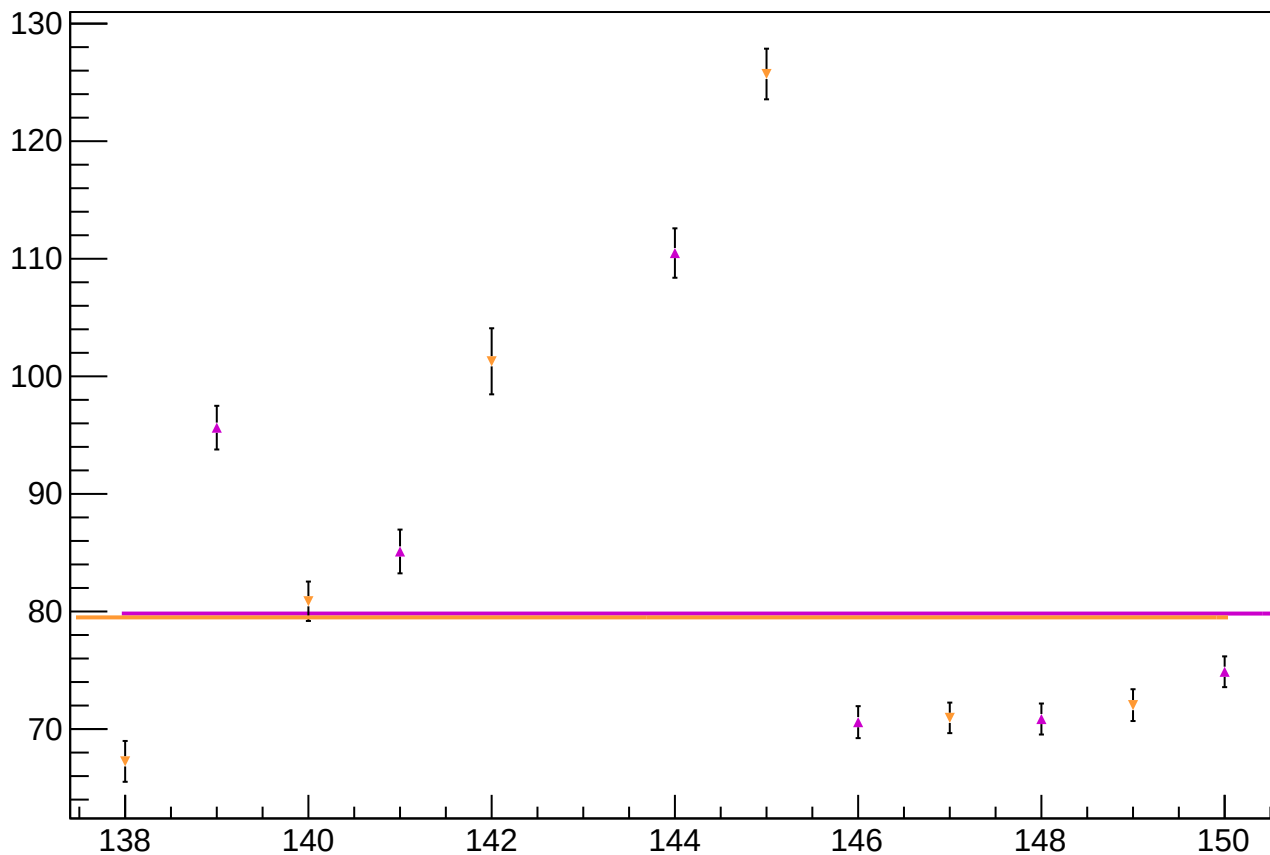
reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 4.332+/-0.442  $\chi^2/\text{NDF}$ :170.4/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.389+/-0.408  $\chi^2/\text{NDF}$ :115.4/5

Left: 4.902+/-0.300  $\chi^2/\text{NDF}$ : 288.9/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.389+/-0.408  $\chi^2/\text{NDF}$ :115.4/5  
 Out: 4.332+/-0.442  $\chi^2/\text{NDF}$ :170.4/5  
 All: 4.902+/-0.300  $\chi^2/\text{NDF}$ : 288.9/11

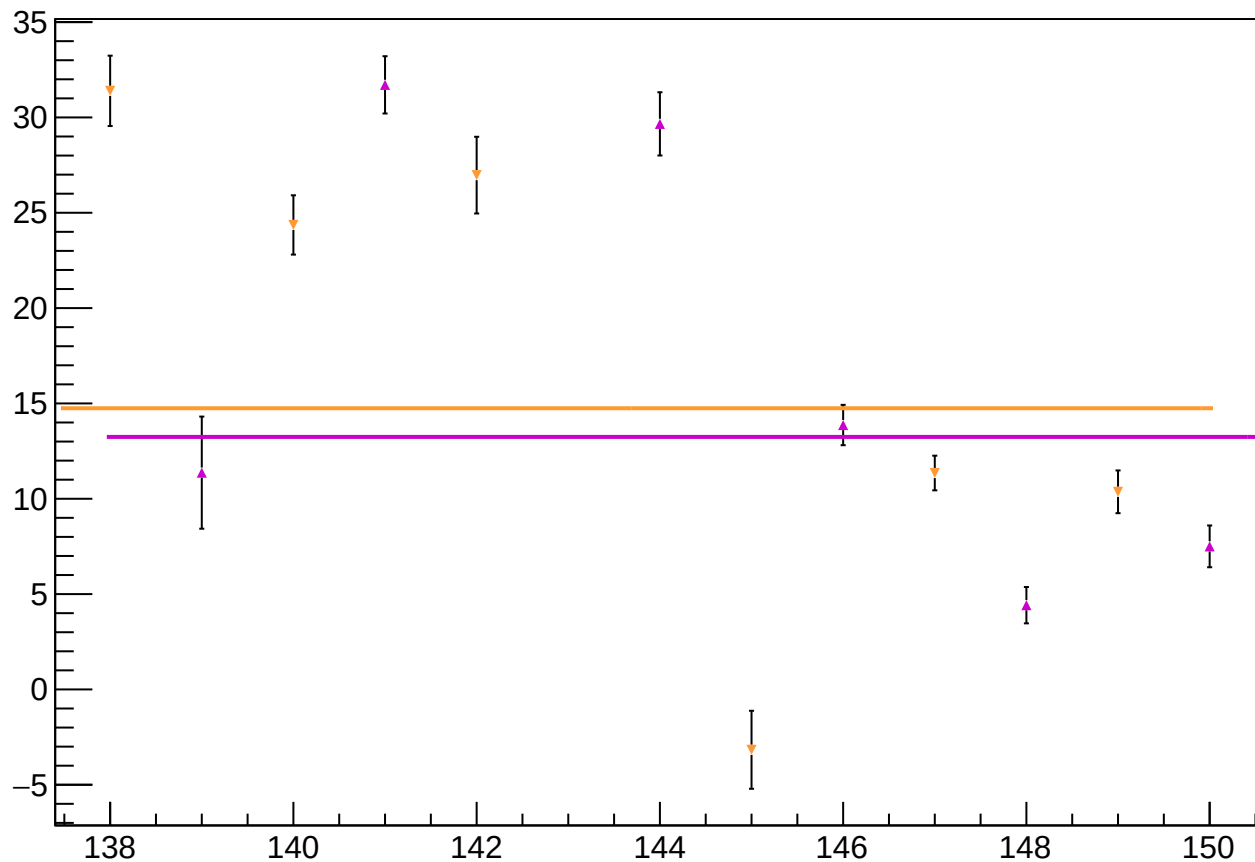
reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 79.497+/-0.679  $\chi^2/\text{NDF}$ :644.4/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 79.824+/-0.632  $\chi^2/\text{NDF}$ :400.0/5

Left: 79.672+/-0.463  $\chi^2/\text{NDF}$ : 1044.5/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 79.824+/-0.632  $\chi^2/\text{NDF}$ :400.0/5  
 Out: 79.497+/-0.679  $\chi^2/\text{NDF}$ :644.4/5  
 All: 79.672+/-0.463  $\chi^2/\text{NDF}$ : 1044.5/11

reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

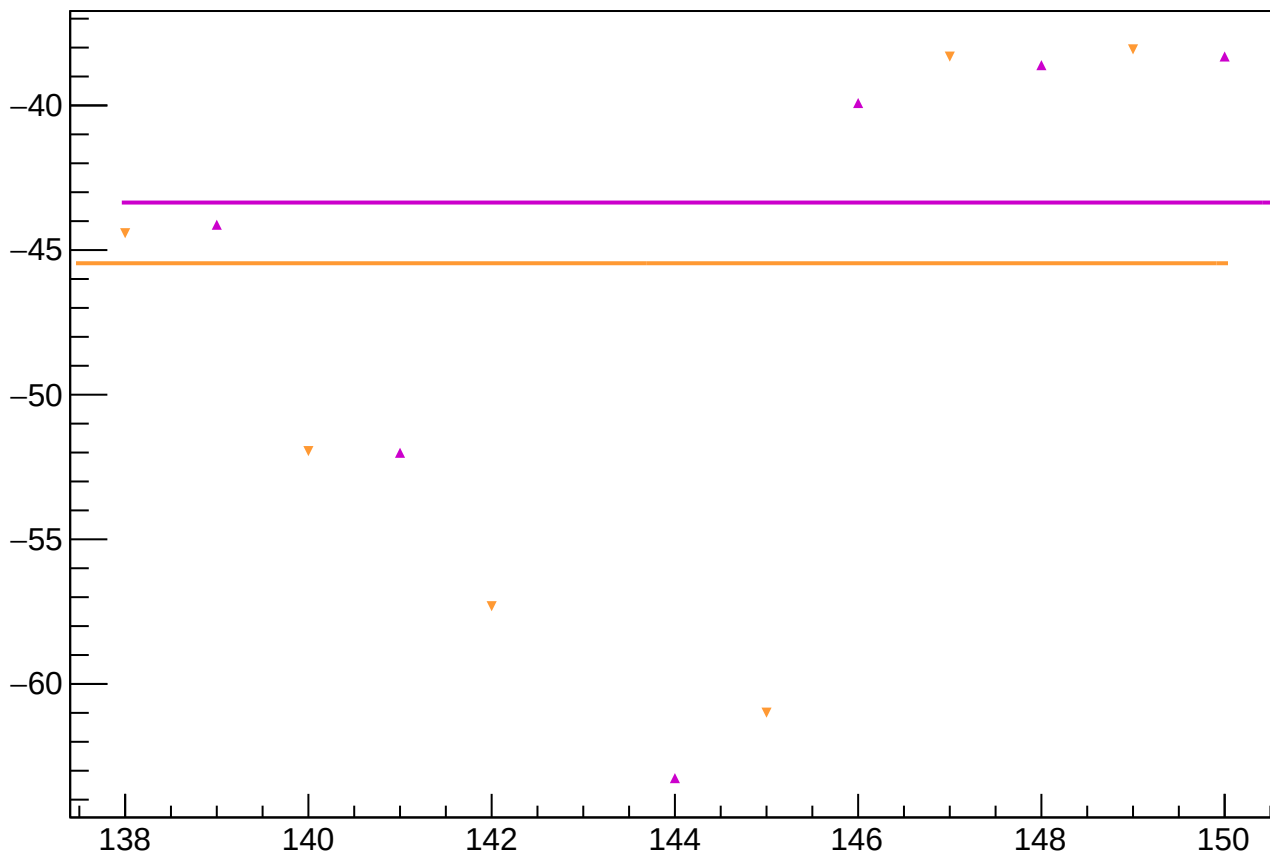


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 14.748+/-0.559  $\chi^2/\text{NDF}$ :262.4/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 13.244+/-0.516  $\chi^2/\text{NDF}$ :362.8/5

Left: 13.936+/-0.379  $\chi^2/\text{NDF}$ : 629.2/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 13.244+/-0.516  $\chi^2/\text{NDF}$ :362.8/5  
 Out: 14.748+/-0.559  $\chi^2/\text{NDF}$ :262.4/5  
 All: 13.936+/-0.379  $\chi^2/\text{NDF}$ : 629.2/11



reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -45.456+/-0.029  $\chi^2/\text{NDF}$ :81716.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -43.357+/-0.026  $\chi^2/\text{NDF}$ :78491.5/5

Left: -44.301+/-0.020  $\chi^2/\text{NDF}$ : 163044.4/11

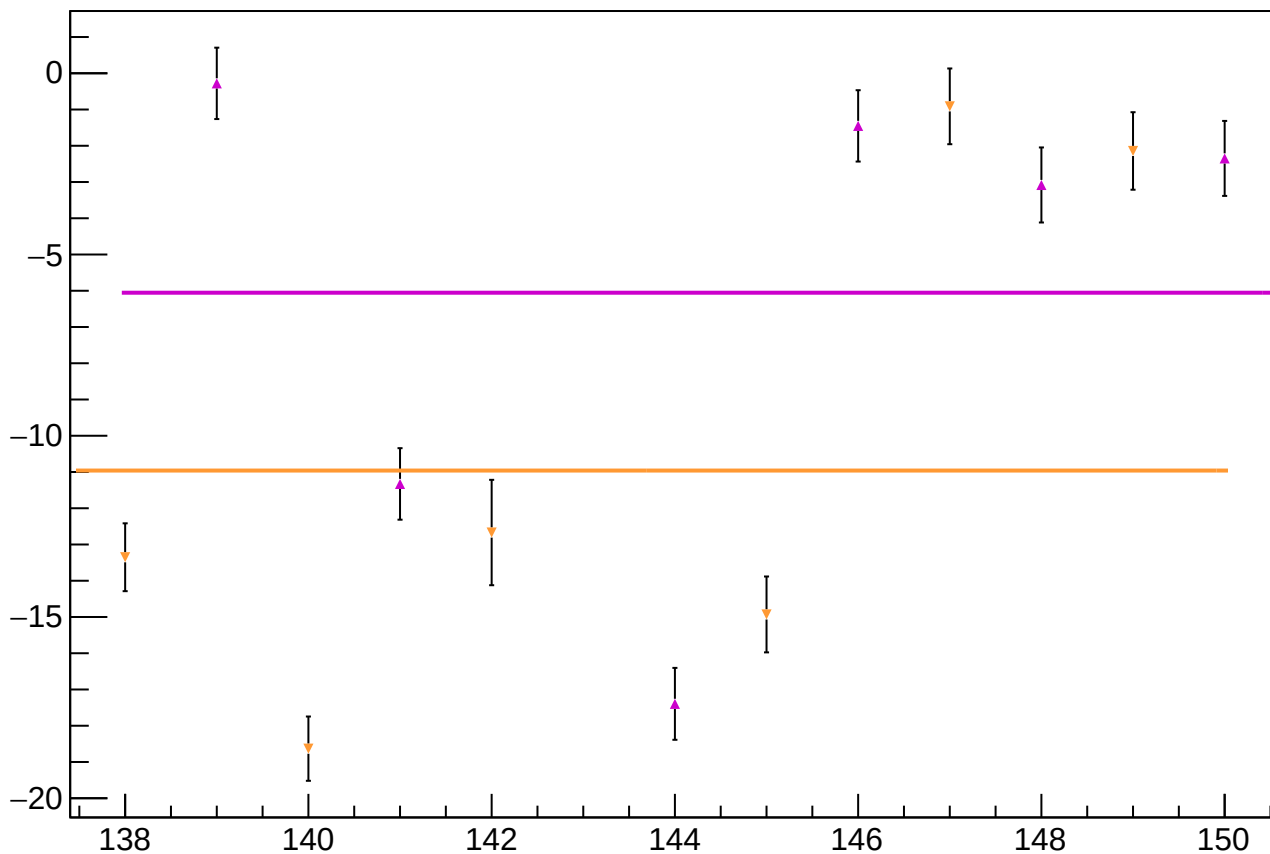
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -43.357+/-0.026  $\chi^2/\text{NDF}$ :78491.5/5

Out: -45.456+/-0.029  $\chi^2/\text{NDF}$ :81716.7/5

All: -44.301+/-0.020  $\chi^2/\text{NDF}$ : 163044.4/11

reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.960+/-0.423  $\chi^2/\text{NDF}$ :257.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -6.054+/-0.409  $\chi^2/\text{NDF}$ :236.7/5

Left: -8.425+/-0.294  $\chi^2/\text{NDF}$ : 563.9/11

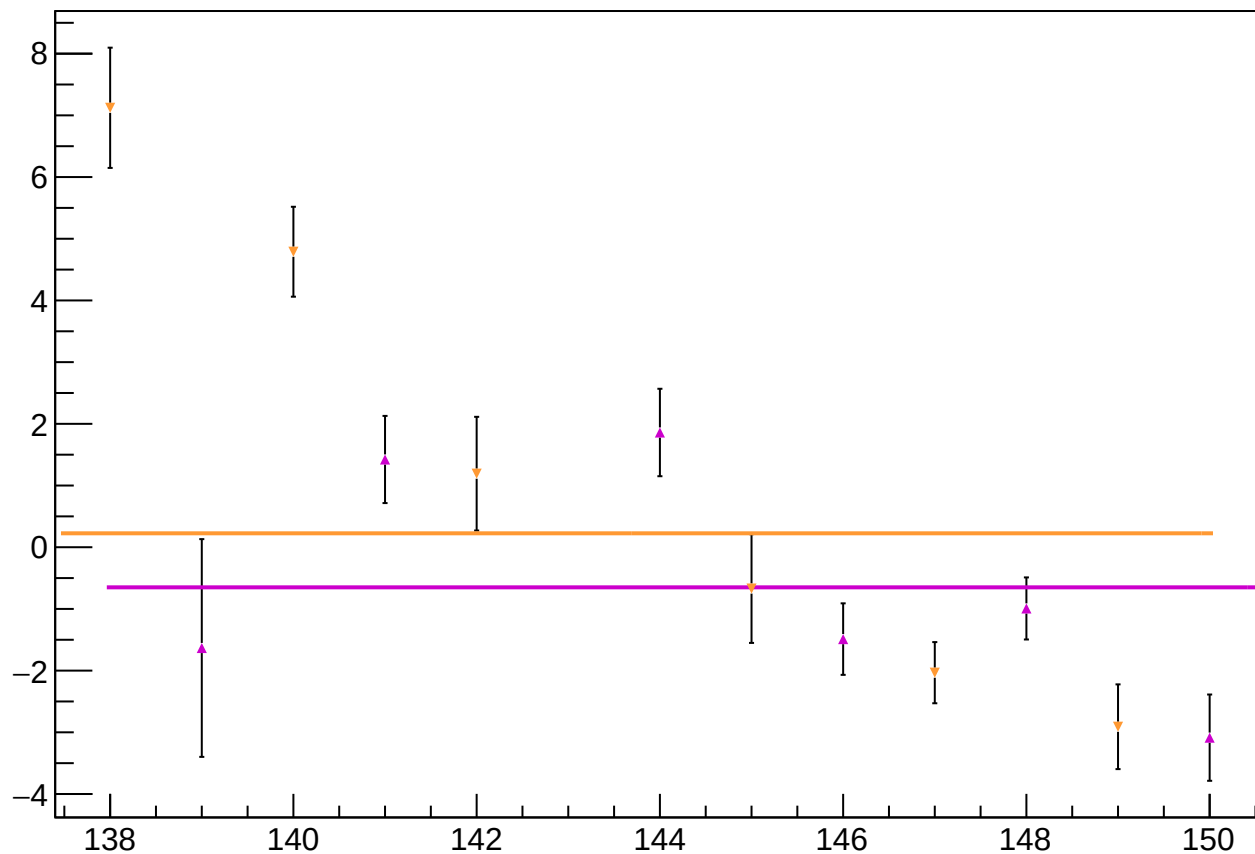
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -6.054+/-0.409  $\chi^2/\text{NDF}$ :236.7/5

Out: -10.960+/-0.423  $\chi^2/\text{NDF}$ :257.7/5

All: -8.425+/-0.294  $\chi^2/\text{NDF}$ : 563.9/11

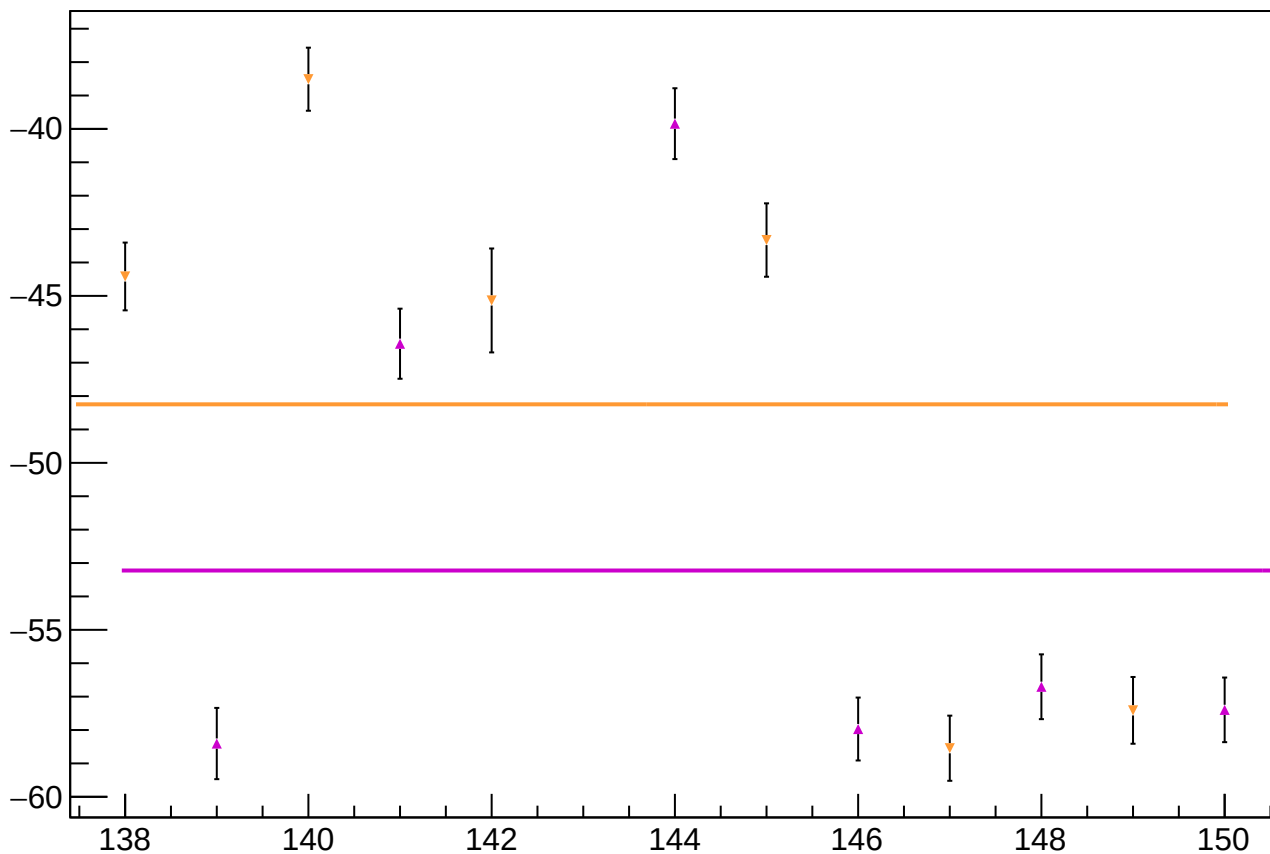
reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.226 $\pm$ 0.294  $\chi^2$ /NDF:133.0/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.650 $\pm$ 0.274  $\chi^2$ /NDF:36.2/5

Left: -0.242 $\pm$ 0.200  $\chi^2$ /NDF: 174.0/11  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.650 $\pm$ 0.274  $\chi^2$ /NDF:36.2/5  
 Out: 0.226 $\pm$ 0.294  $\chi^2$ /NDF:133.0/5  
 All: -0.242 $\pm$ 0.200  $\chi^2$ /NDF: 174.0/11

reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -48.247+/-0.431  $\chi^2/\text{NDF}$ :340.0/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -53.224+/-0.411  $\chi^2/\text{NDF}$ :281.4/5

Left: -50.856+/-0.297  $\chi^2/\text{NDF}$ : 691.3/11

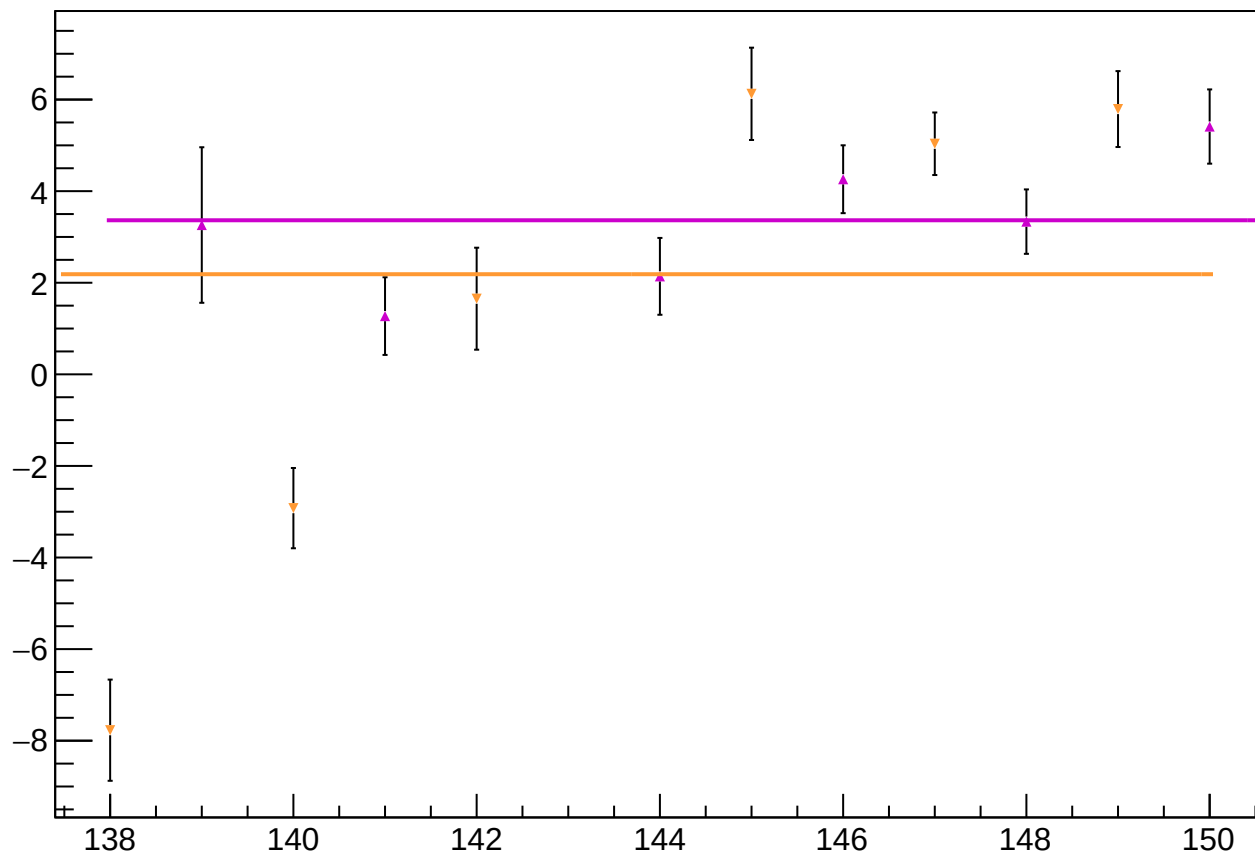
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -53.224+/-0.411  $\chi^2/\text{NDF}$ :281.4/5

Out: -48.247+/-0.431  $\chi^2/\text{NDF}$ :340.0/5

All: -50.856+/-0.297  $\chi^2/\text{NDF}$ : 691.3/11

reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 2.186 $\pm$ 0.365  $\chi^2$ /NDF:167.0/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 3.364 $\pm$ 0.343  $\chi^2$ /NDF:16.1/5

Left: 2.812 $\pm$ 0.250  $\chi^2$ /NDF: 188.6/11

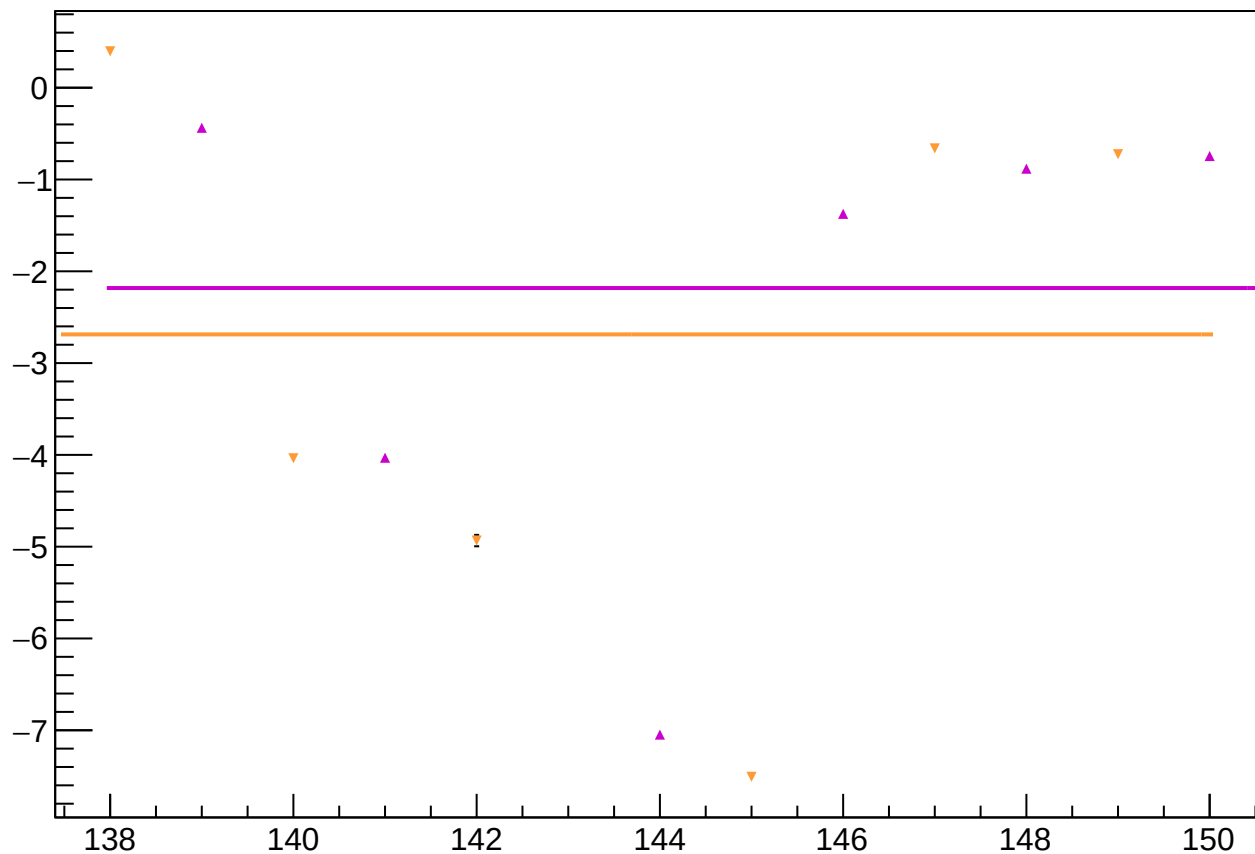
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 3.364 $\pm$ 0.343  $\chi^2$ /NDF:16.1/5

Out: 2.186 $\pm$ 0.365  $\chi^2$ /NDF:167.0/5

All: 2.812 $\pm$ 0.250  $\chi^2$ /NDF: 188.6/11

reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected

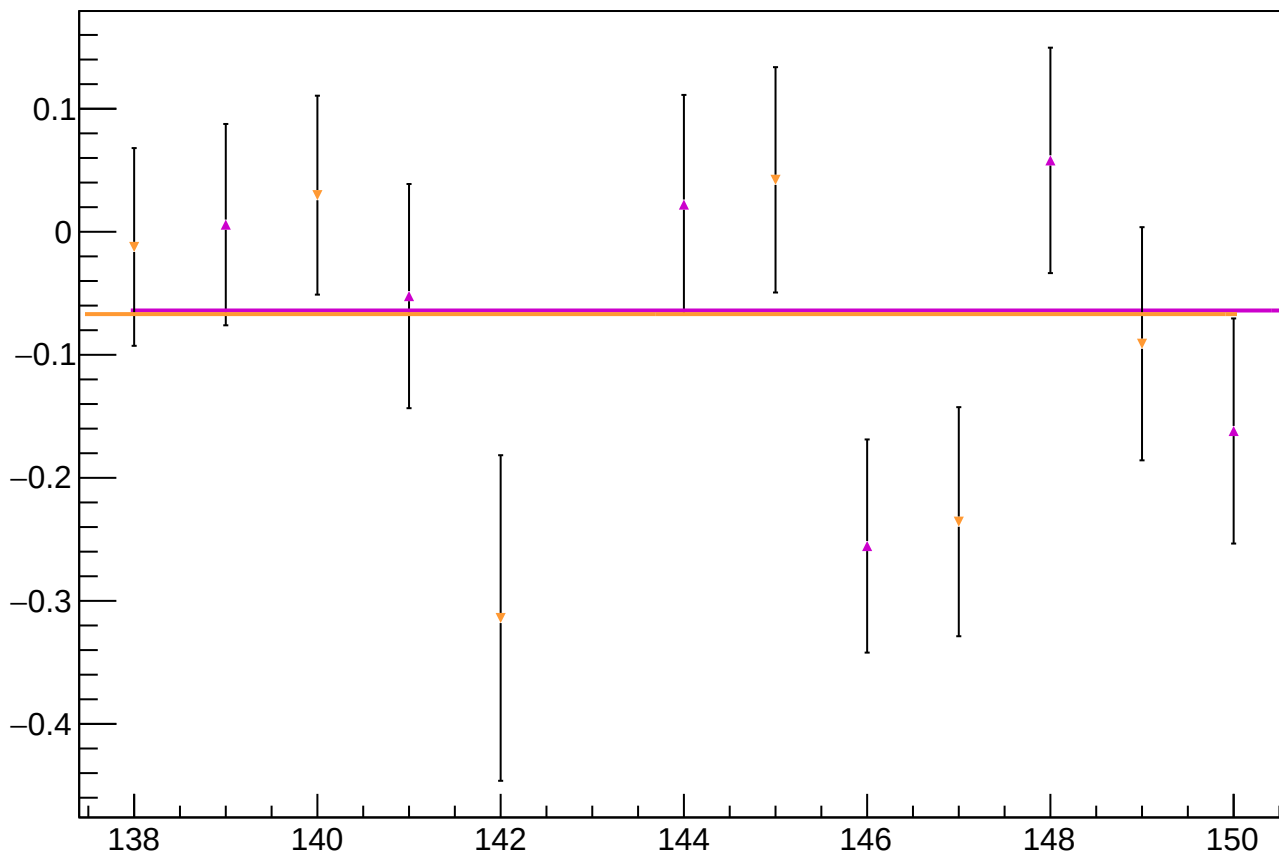


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.688+/-0.018  $\chi^2/\text{NDF}$ : 24851.9/5  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.182+/-0.017  $\chi^2/\text{NDF}$ : 17677.8/5

Left: -2.418+/-0.012  $\chi^2/\text{NDF}$ : 42941.8/11  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -2.182+/-0.017  $\chi^2/\text{NDF}$ : 17677.8/5  
 Out: -2.688+/-0.018  $\chi^2/\text{NDF}$ : 24851.9/5

All: -2.418+/-0.012  $\chi^2/\text{NDF}$ : 42941.8/11

reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.067+/-0.038  $\chi^2/\text{NDF}$ : 10.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.064+/-0.036  $\chi^2/\text{NDF}$ : 9.5/5

Left: -0.065+/-0.026  $\chi^2/\text{NDF}$ : 19.6/11

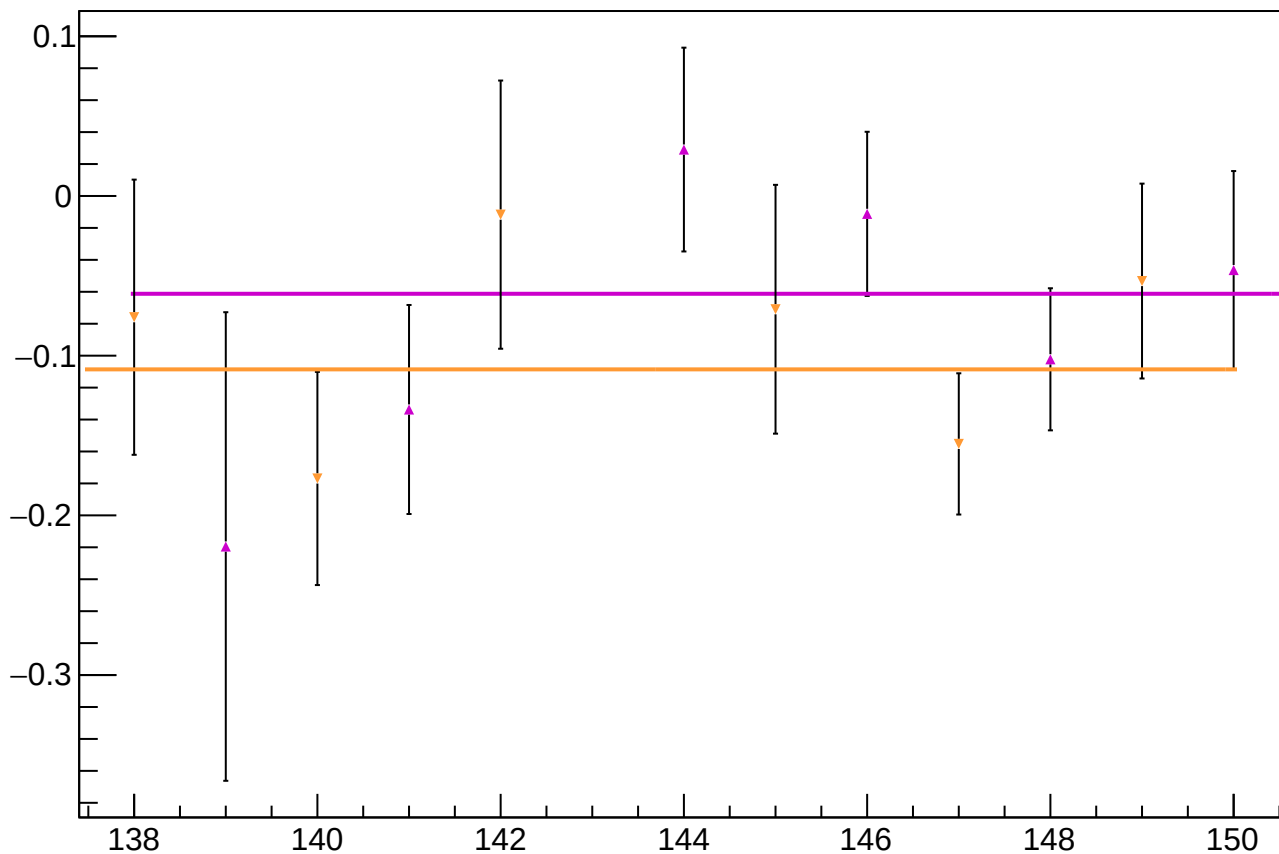
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.064+/-0.036  $\chi^2/\text{NDF}$ : 9.5/5

Out: -0.067+/-0.038  $\chi^2/\text{NDF}$ : 10.1/5

All: -0.065+/-0.026  $\chi^2/\text{NDF}$ : 19.6/11

reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

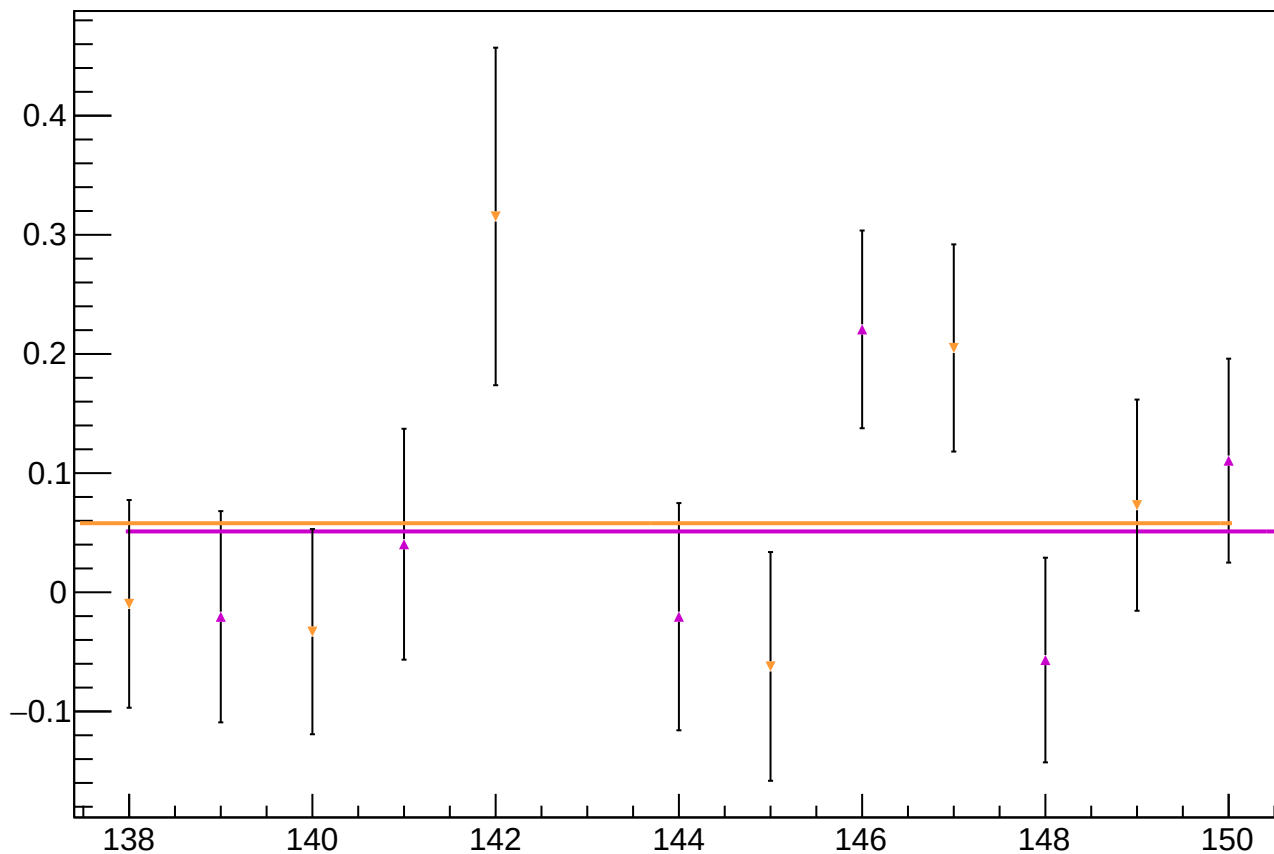


Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.109+/-0.026  $\chi^2$ /NDF:4.7/5  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.061+/-0.024  $\chi^2$ /NDF:6.2/5

Left: -0.083+/-0.018  $\chi^2$ /NDF: 12.7/11  
 Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.061+/-0.024  $\chi^2$ /NDF:6.2/5  
 Out: -0.109+/-0.026  $\chi^2$ /NDF:4.7/5  
 All: -0.083+/-0.018  $\chi^2$ /NDF: 12.7/11



reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.058 $\pm$ 0.038  $\chi^2$ /NDF:9.5/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.051 $\pm$ 0.036  $\chi^2$ /NDF:7.5/5

Left: 0.054 $\pm$ 0.026  $\chi^2$ /NDF: 17.0/11

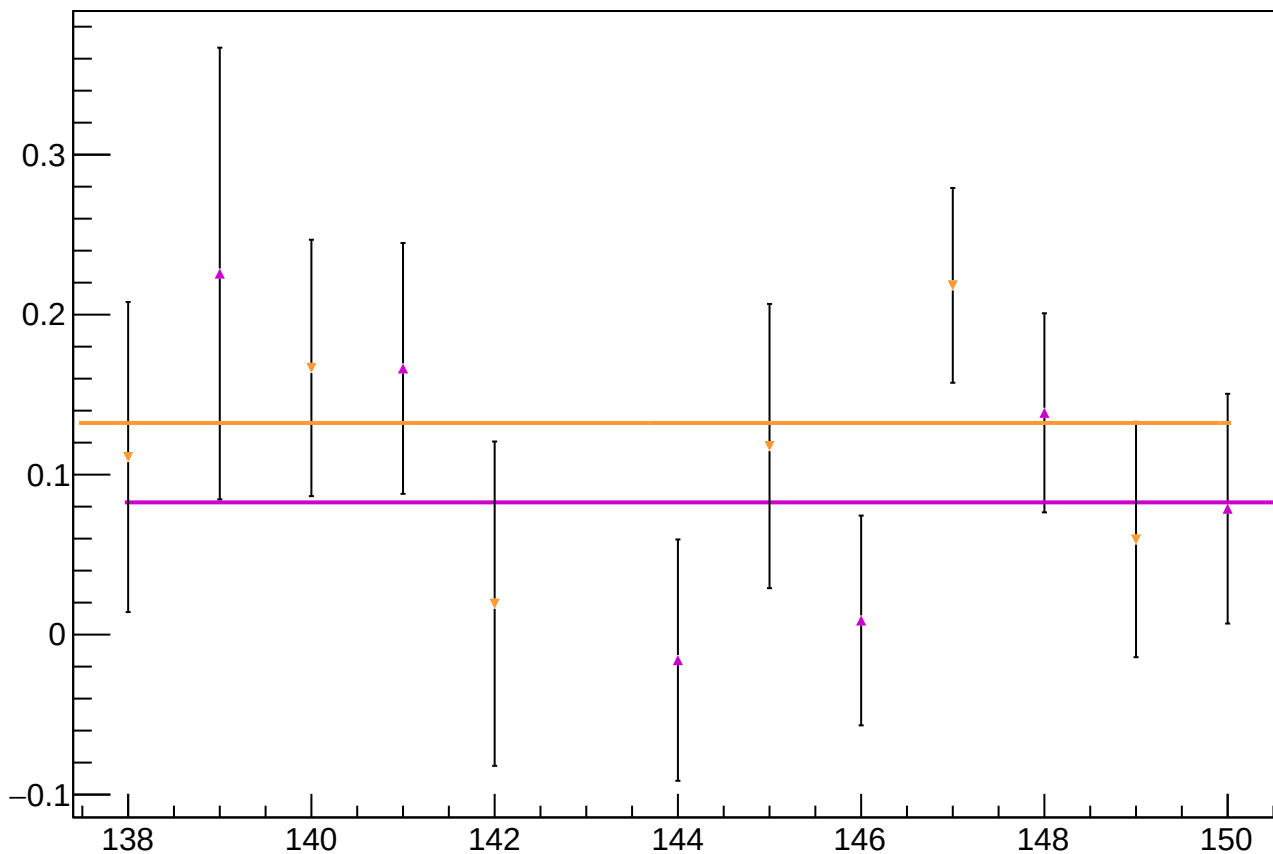
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.051 $\pm$ 0.036  $\chi^2$ /NDF:7.5/5

Out: 0.058 $\pm$ 0.038  $\chi^2$ /NDF:9.5/5

All: 0.054 $\pm$ 0.026  $\chi^2$ /NDF: 17.0/11

reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.132 $\pm$ 0.033  $\chi^2$ /NDF:4.5/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.083 $\pm$ 0.031  $\chi^2$ /NDF:6.0/5

Left: 0.106 $\pm$ 0.022  $\chi^2$ /NDF: 11.7/11

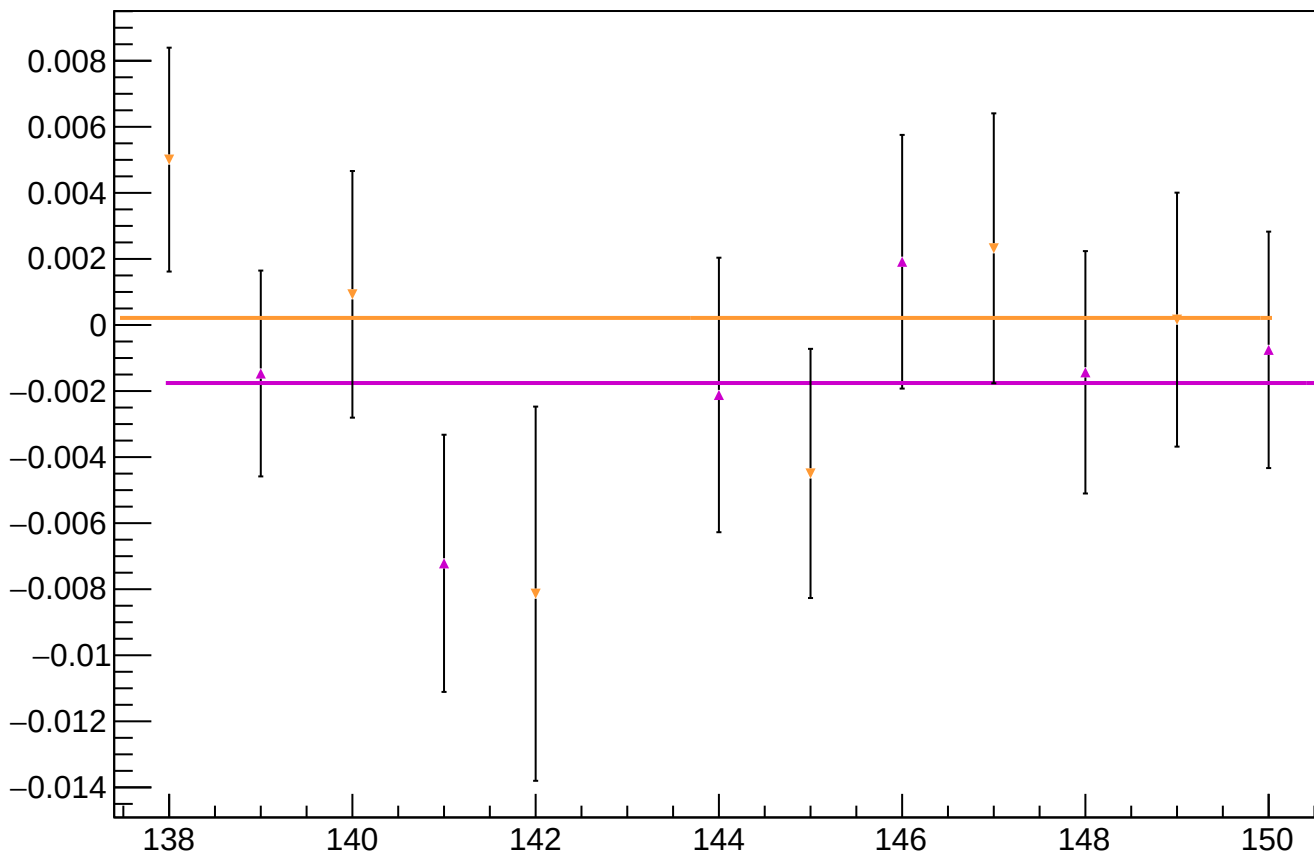
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.083 $\pm$ 0.031  $\chi^2$ /NDF:6.0/5

Out: 0.132 $\pm$ 0.033  $\chi^2$ /NDF:4.5/5

All: 0.106 $\pm$ 0.022  $\chi^2$ /NDF: 11.7/11

reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.002  $\chi^2$ /NDF: 6.0/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.002 $\pm$ 0.001  $\chi^2$ /NDF: 3.0/5

Left: -0.001 $\pm$ 0.001  $\chi^2$ /NDF: 9.8/11

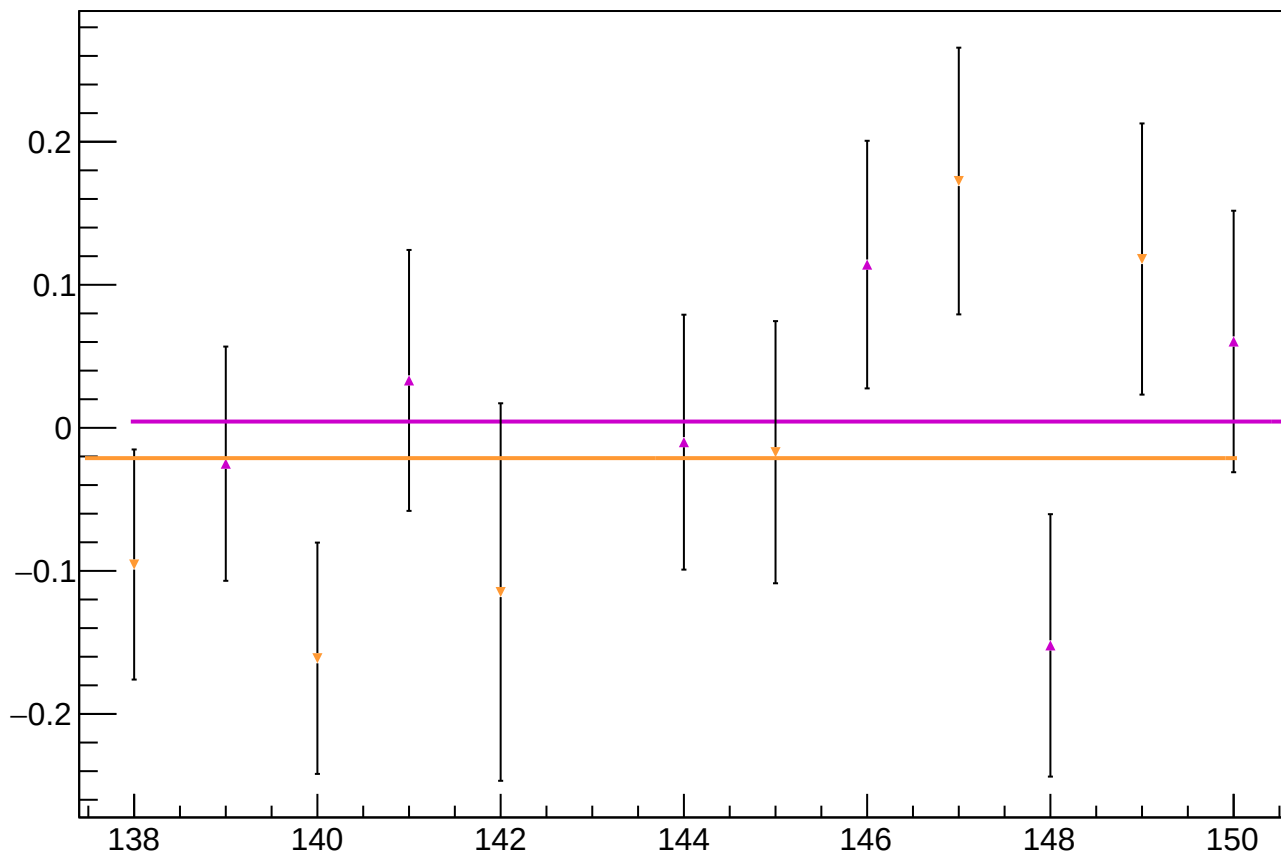
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.002 $\pm$ 0.001  $\chi^2$ /NDF: 3.0/5

Out: 0.000 $\pm$ 0.002  $\chi^2$ /NDF: 6.0/5

All: -0.001 $\pm$ 0.001  $\chi^2$ /NDF: 9.8/11

reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.021+/-0.038  $\chi^2/\text{NDF}$ : 10.8/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.004+/-0.036  $\chi^2/\text{NDF}$ : 5.1/5

Left: -0.008+/-0.026  $\chi^2/\text{NDF}$ : 16.2/11

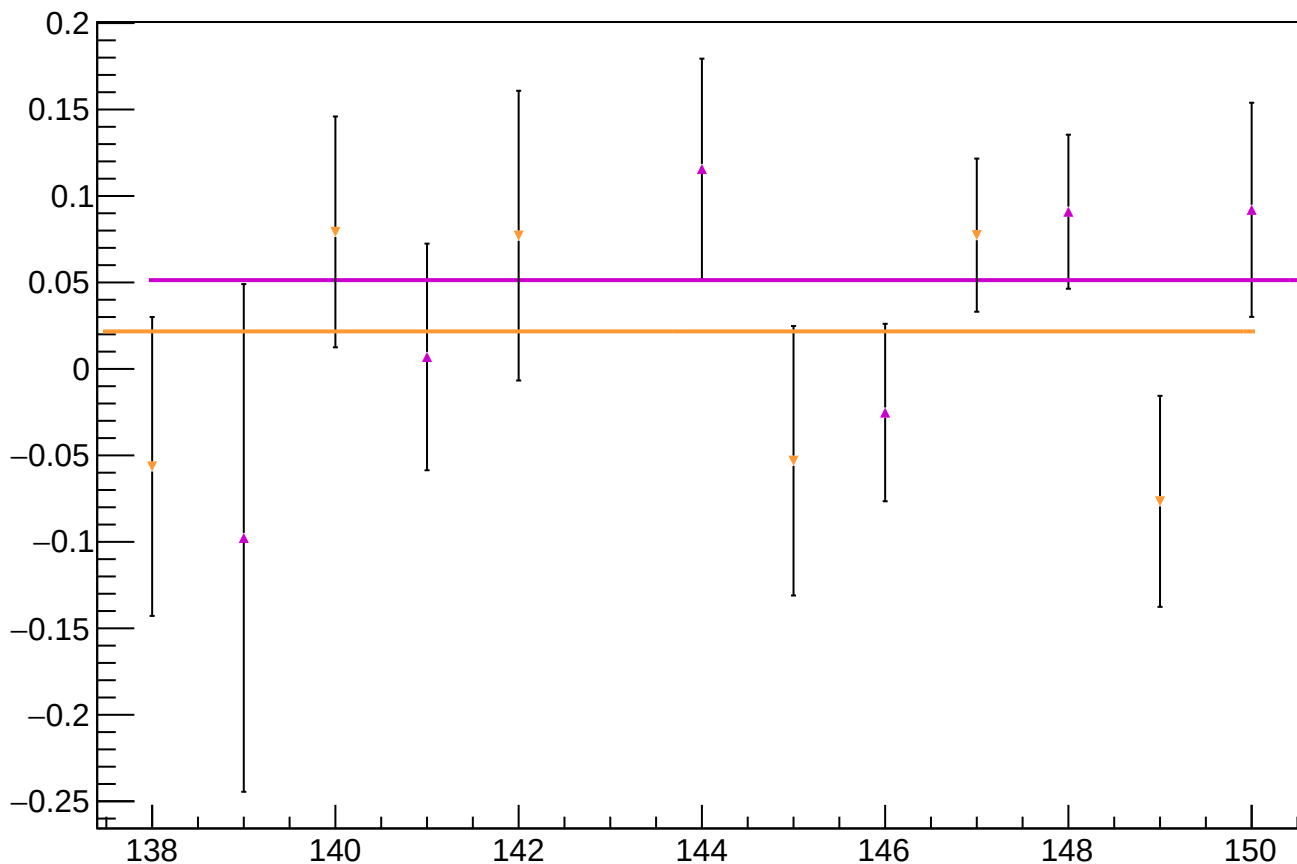
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.004+/-0.036  $\chi^2/\text{NDF}$ : 5.1/5

Out: -0.021+/-0.038  $\chi^2/\text{NDF}$ : 10.8/5

All: -0.008+/-0.026  $\chi^2/\text{NDF}$ : 16.2/11

reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.022 $\pm$ 0.026  $\chi^2$ /NDF:7.1/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.051 $\pm$ 0.024  $\chi^2$ /NDF:6.0/5

Left: 0.038 $\pm$ 0.018  $\chi^2$ /NDF: 13.7/11

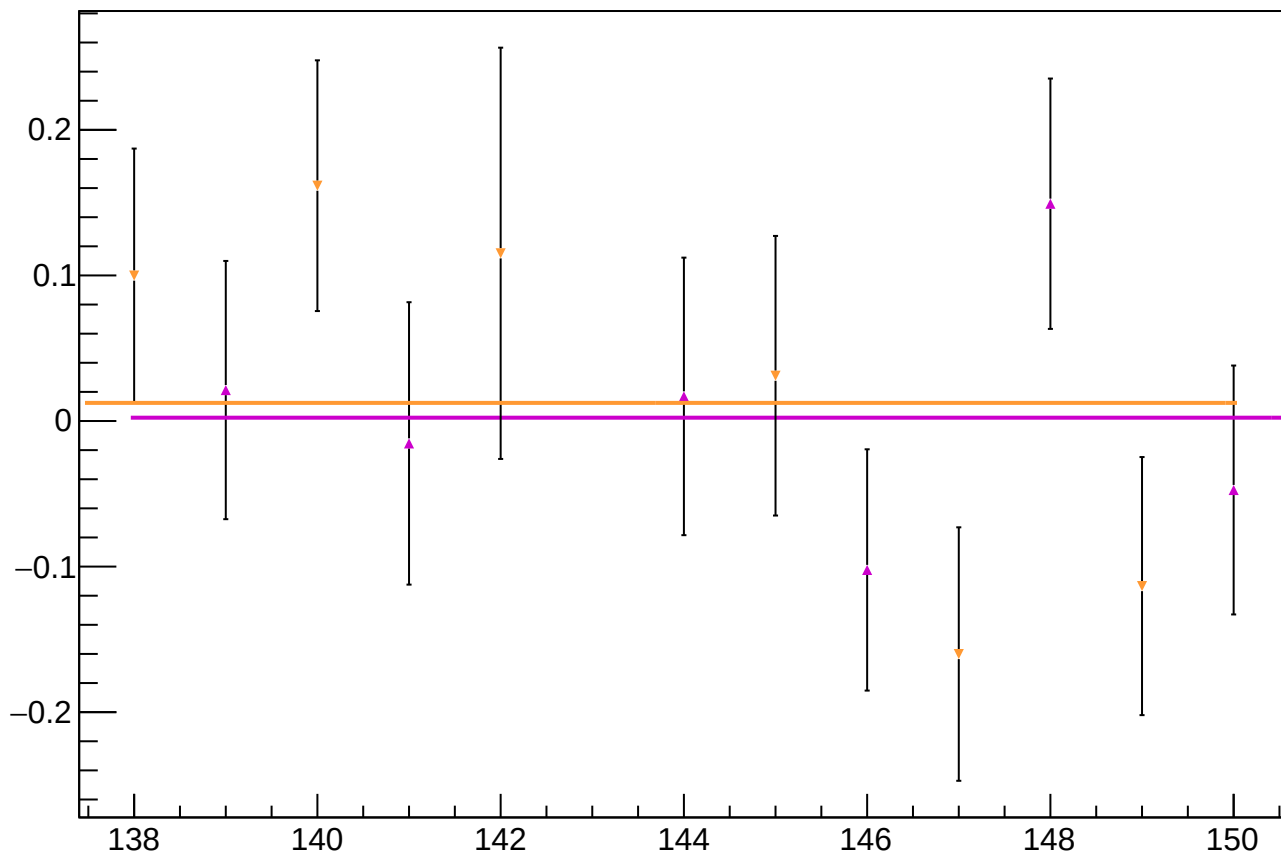
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.051 $\pm$ 0.024  $\chi^2$ /NDF:6.0/5

Out: 0.022 $\pm$ 0.026  $\chi^2$ /NDF:7.1/5

All: 0.038 $\pm$ 0.018  $\chi^2$ /NDF: 13.7/11

reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.012 $\pm$ 0.038  $\chi^2$ /NDF:10.5/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.002 $\pm$ 0.036  $\chi^2$ /NDF:5.0/5

Left: 0.007 $\pm$ 0.026  $\chi^2$ /NDF: 15.5/11

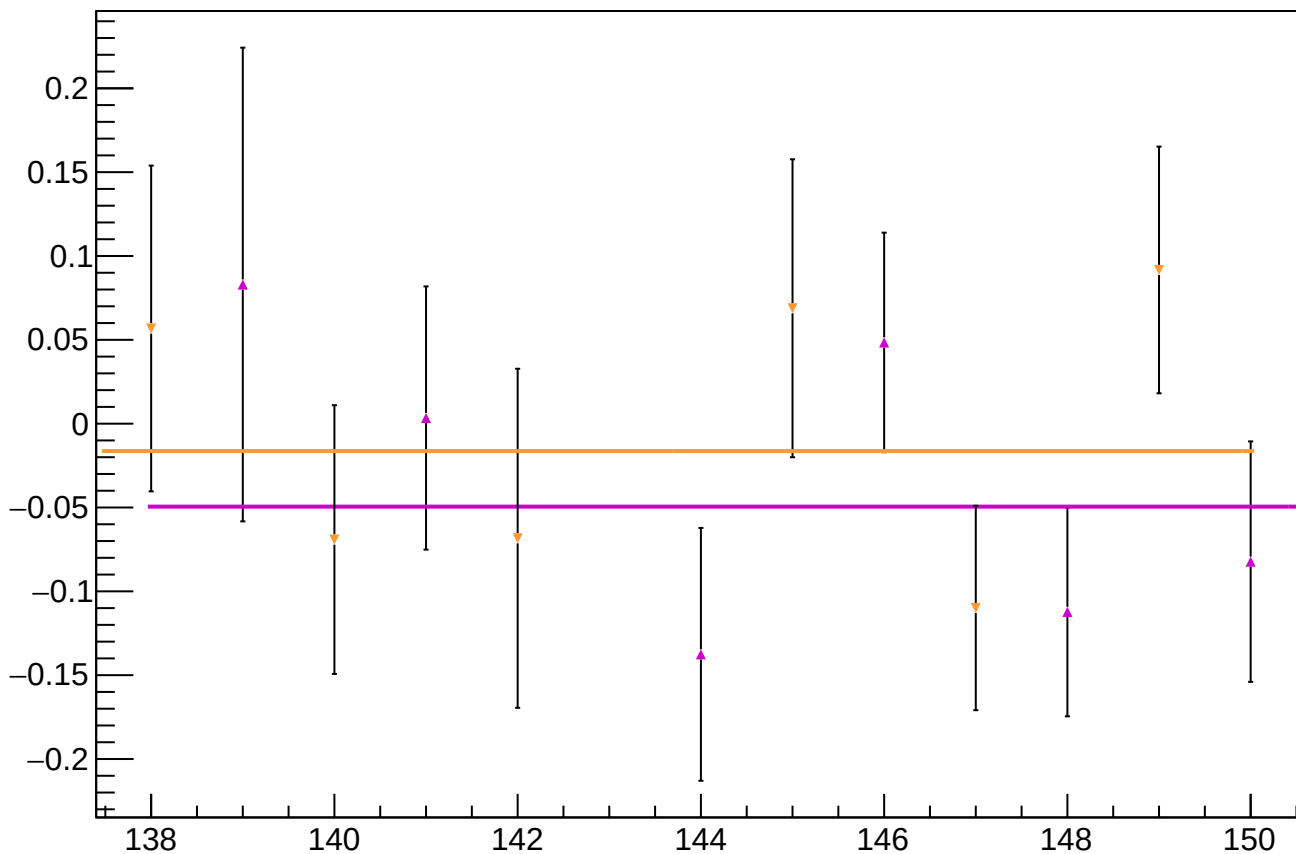
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.002 $\pm$ 0.036  $\chi^2$ /NDF:5.0/5

Out: 0.012 $\pm$ 0.038  $\chi^2$ /NDF:10.5/5

All: 0.007 $\pm$ 0.026  $\chi^2$ /NDF: 15.5/11

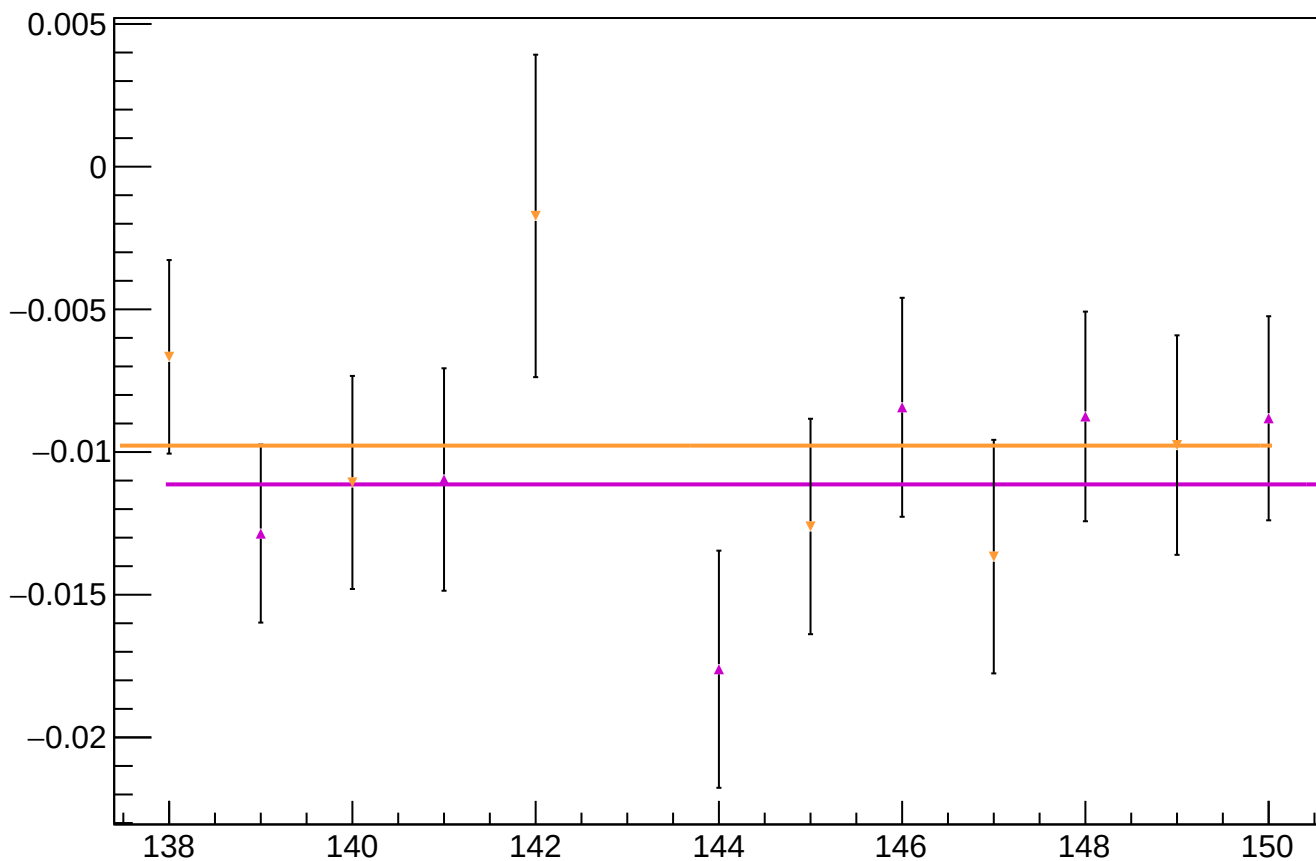
reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.016 $\pm$ 0.033  $\chi^2$ /NDF:6.7/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.049 $\pm$ 0.031  $\chi^2$ /NDF:6.2/5

Left: -0.034 $\pm$ 0.022  $\chi^2$ /NDF: 13.4/11  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.049 $\pm$ 0.031  $\chi^2$ /NDF:6.2/5  
 Out: -0.016 $\pm$ 0.033  $\chi^2$ /NDF:6.7/5  
 All: -0.034 $\pm$ 0.022  $\chi^2$ /NDF: 13.4/11

reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected

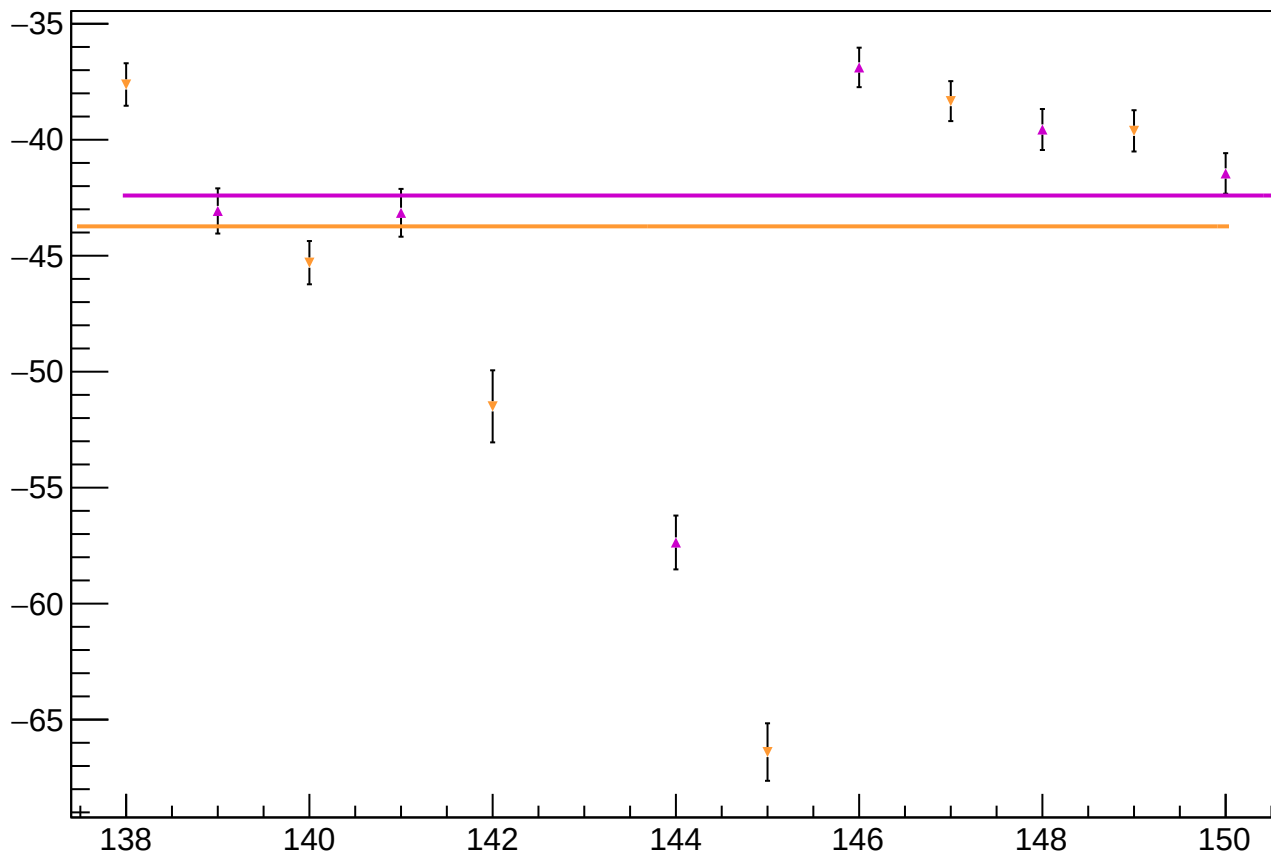


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.010 $\pm$ 0.002  $\chi^2$ /NDF:4.5/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.011 $\pm$ 0.001  $\chi^2$ /NDF:4.1/5

Left: -0.011 $\pm$ 0.001  $\chi^2$ /NDF: 8.9/11  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.011 $\pm$ 0.001  $\chi^2$ /NDF:4.1/5  
 Out: -0.010 $\pm$ 0.002  $\chi^2$ /NDF:4.5/5  
 All: -0.011 $\pm$ 0.001  $\chi^2$ /NDF: 8.9/11



reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -43.735+/-0.408  $\chi^2/\text{NDF}$ : 467.3/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -42.405+/-0.386  $\chi^2/\text{NDF}$ : 220.8/5

Left: -43.034+/-0.280  $\chi^2/\text{NDF}$ : 693.8/11

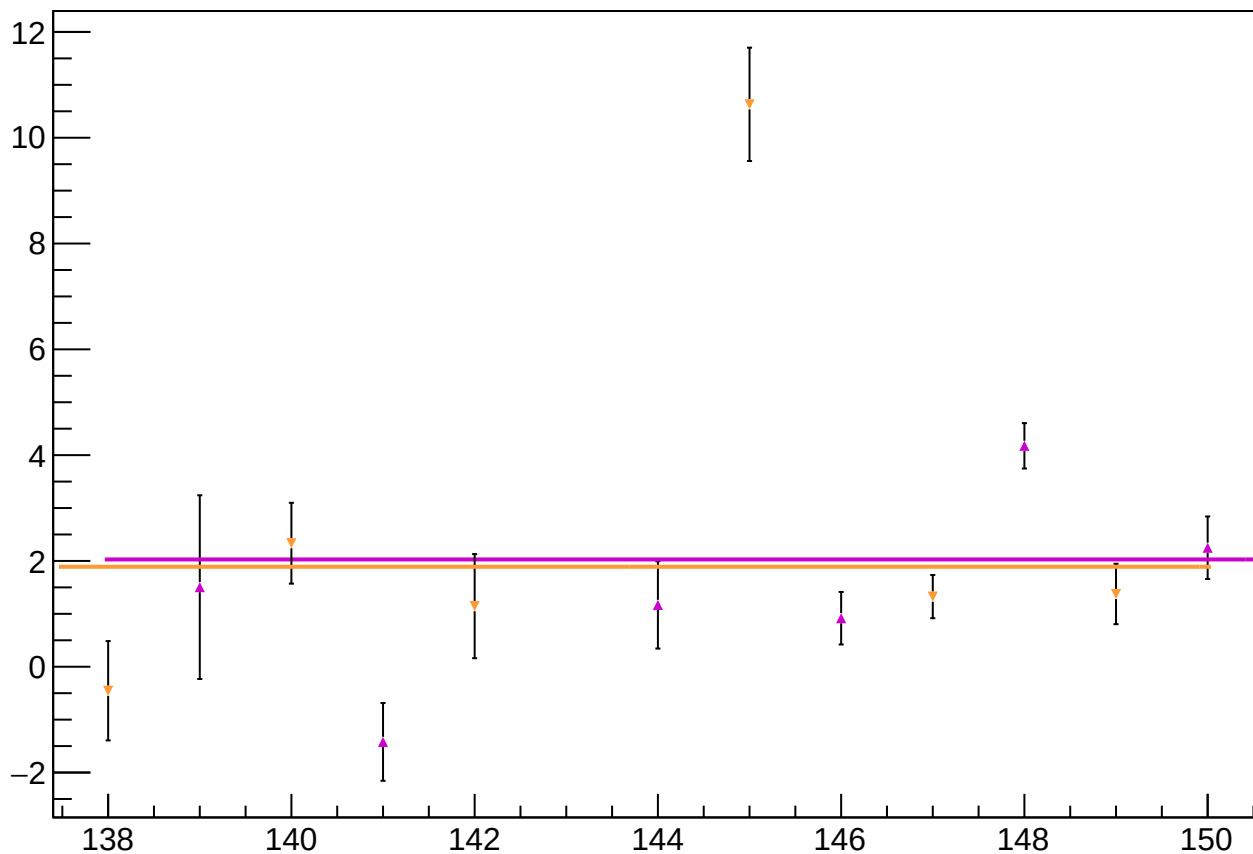
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -42.405+/-0.386  $\chi^2/\text{NDF}$ : 220.8/5

Out: -43.735+/-0.408  $\chi^2/\text{NDF}$ : 467.3/5

All: -43.034+/-0.280  $\chi^2/\text{NDF}$ : 693.8/11

reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1.890+/-0.269  $\chi^2/\text{NDF}$ : 76.4/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.028+/-0.250  $\chi^2/\text{NDF}$ : 53.4/5

Left: 1.964+/-0.183  $\chi^2/\text{NDF}$ : 129.9/11

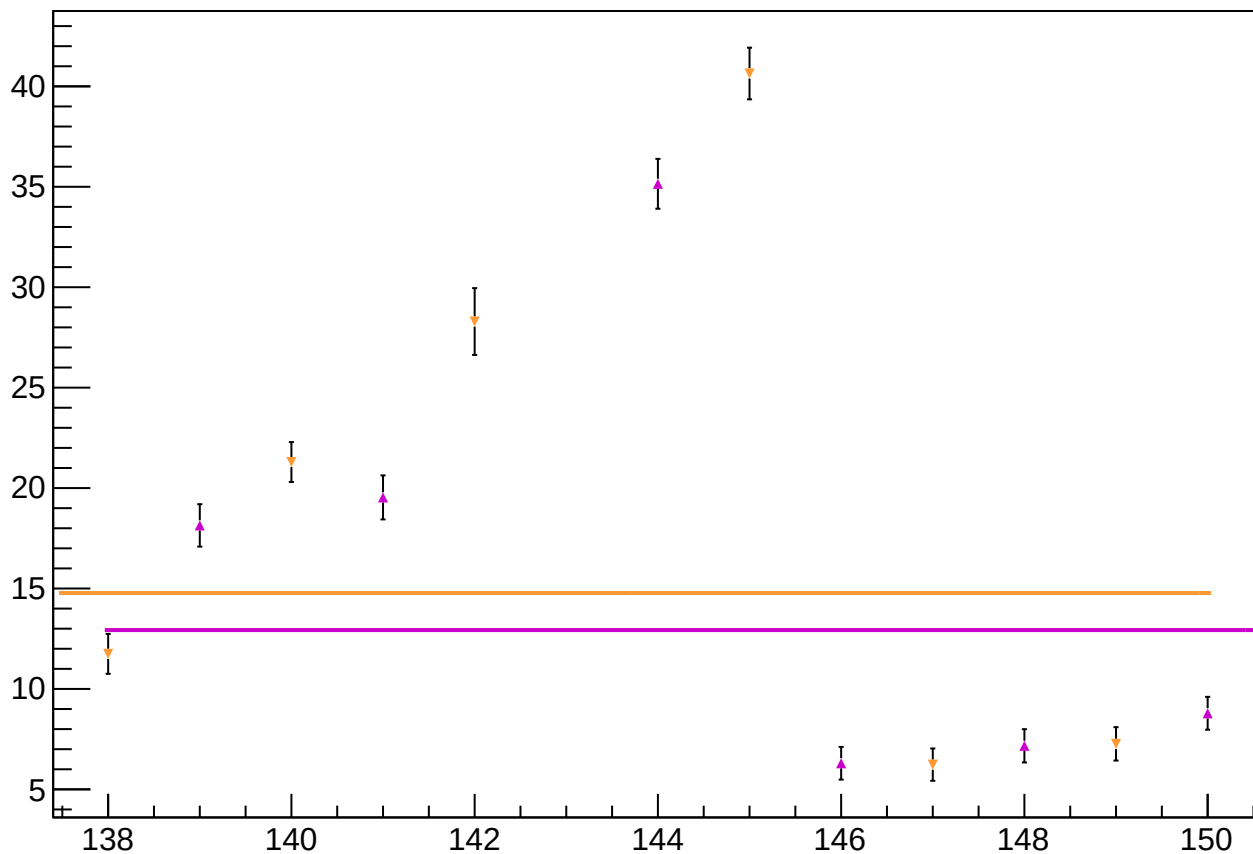
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 2.028+/-0.250  $\chi^2/\text{NDF}$ : 53.4/5

Out: 1.890+/-0.269  $\chi^2/\text{NDF}$ : 76.4/5

All: 1.964+/-0.183  $\chi^2/\text{NDF}$ : 129.9/11

reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.776+/-0.409  $\chi^2/\text{NDF}$ : 717.1/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 12.931+/-0.382  $\chi^2/\text{NDF}$ : 521.8/5

Left: 13.792+/-0.279  $\chi^2/\text{NDF}$ : 1249.7/11

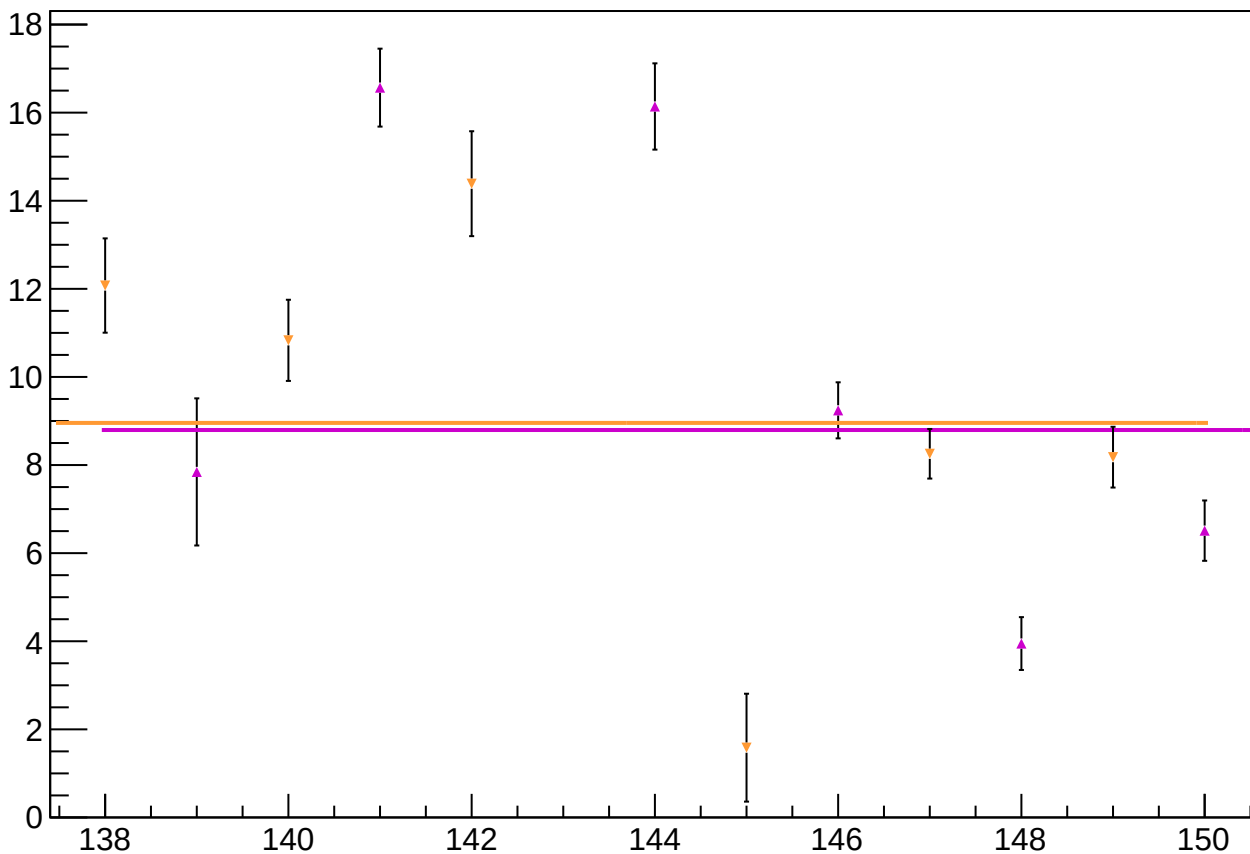
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 12.931+/-0.382  $\chi^2/\text{NDF}$ : 521.8/5

Out: 14.776+/-0.409  $\chi^2/\text{NDF}$ : 717.1/5

All: 13.792+/-0.279  $\chi^2/\text{NDF}$ : 1249.7/11

reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8.956+/-0.339  $\chi^2/\text{NDF}$ :72.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 8.795+/-0.315  $\chi^2/\text{NDF}$ :210.8/5

Left: 8.870+/-0.231  $\chi^2/\text{NDF}$ : 283.4/11

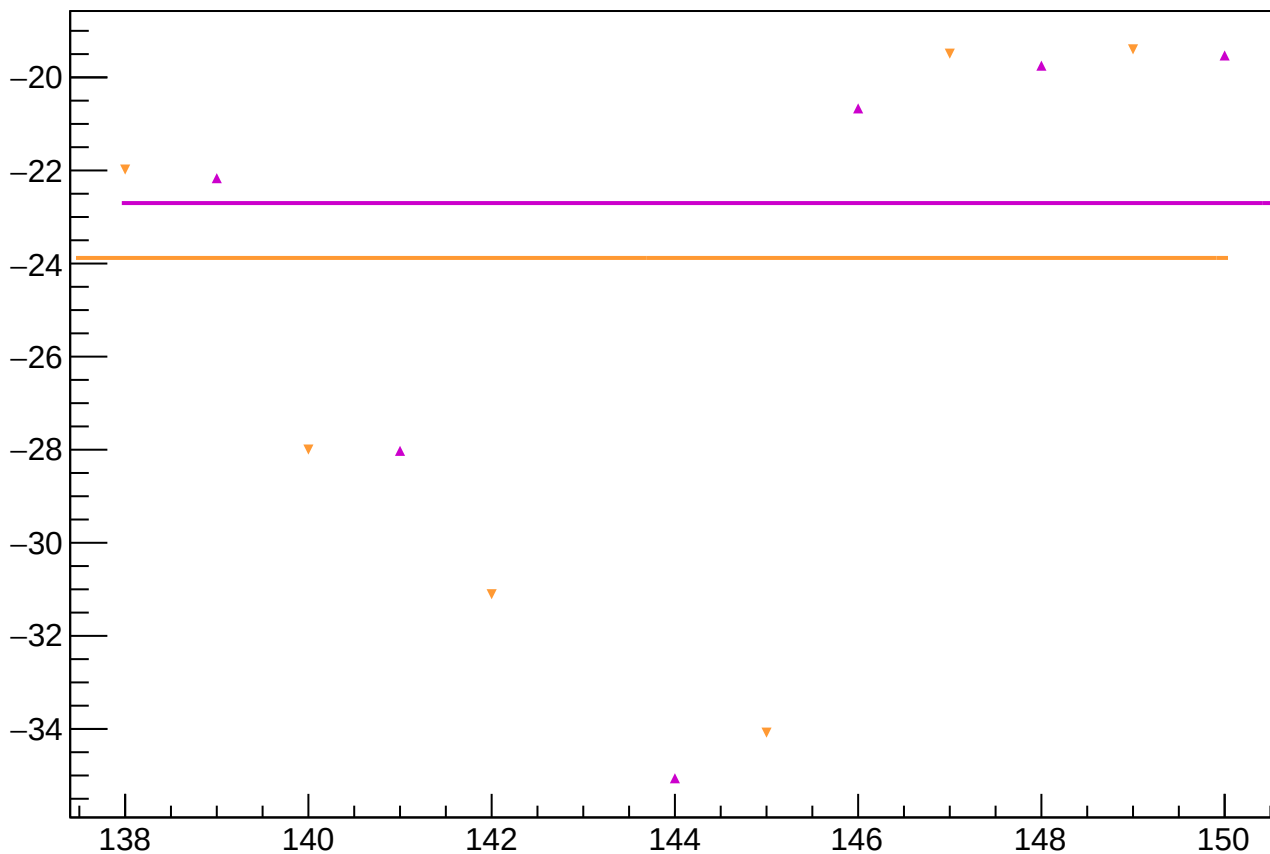
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 8.795+/-0.315  $\chi^2/\text{NDF}$ :210.8/5

Out: 8.956+/-0.339  $\chi^2/\text{NDF}$ :72.5/5

All: 8.870+/-0.231  $\chi^2/\text{NDF}$ : 283.4/11

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -23.880+/-0.018  $\chi^2/\text{NDF}$ :92013.7/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -22.701+/-0.016  $\chi^2/\text{NDF}$ :84612.2/5

Left: -23.235+/-0.012  $\chi^2/\text{NDF}$ : 179104.4/11

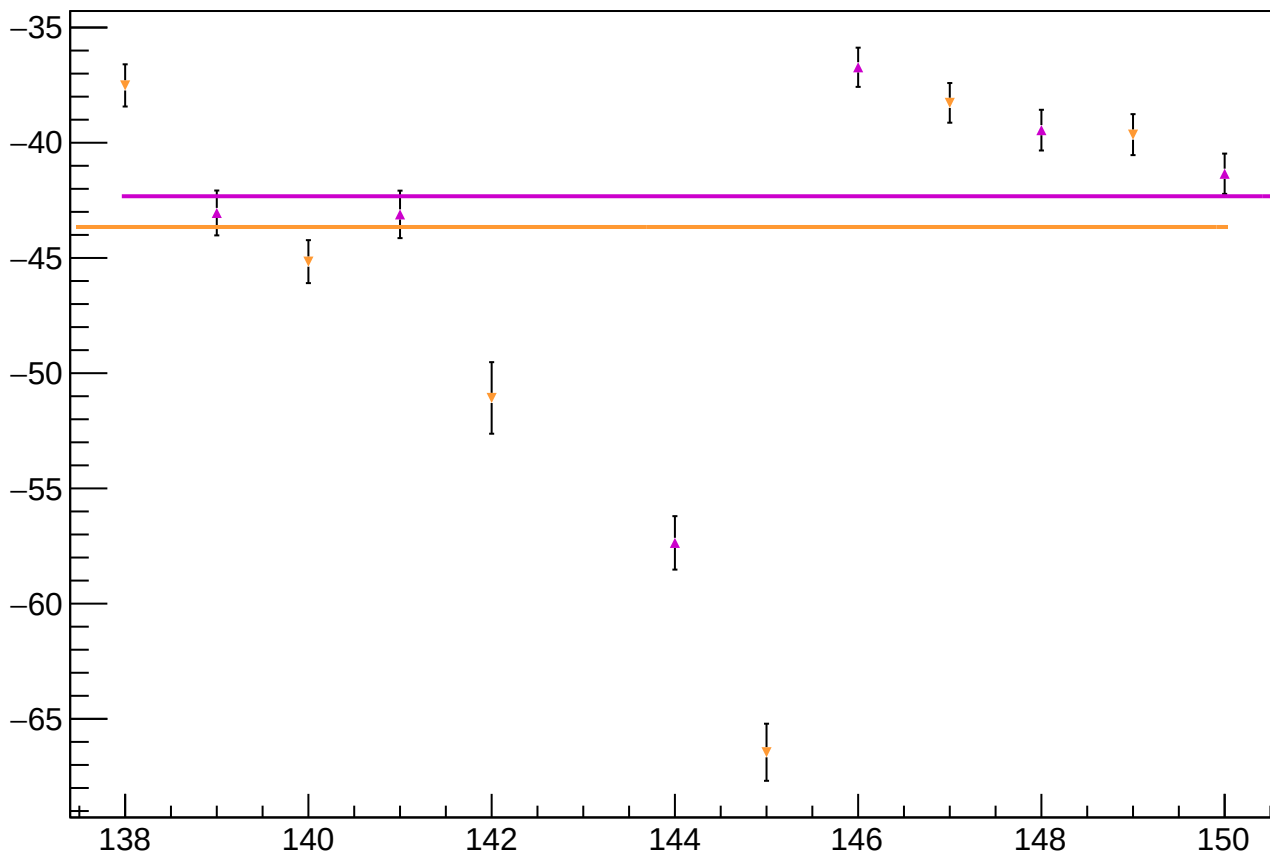
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.701+/-0.016  $\chi^2/\text{NDF}$ :84612.2/5

Out: -23.880+/-0.018  $\chi^2/\text{NDF}$ :92013.7/5

All: -23.235+/-0.012  $\chi^2/\text{NDF}$ : 179104.4/11

reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -43.656+/-0.407  $\chi^2/\text{NDF}$ : 468.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -42.322+/-0.386  $\chi^2/\text{NDF}$ : 224.4/5

Left: -42.953+/-0.280  $\chi^2/\text{NDF}$ : 698.5/11

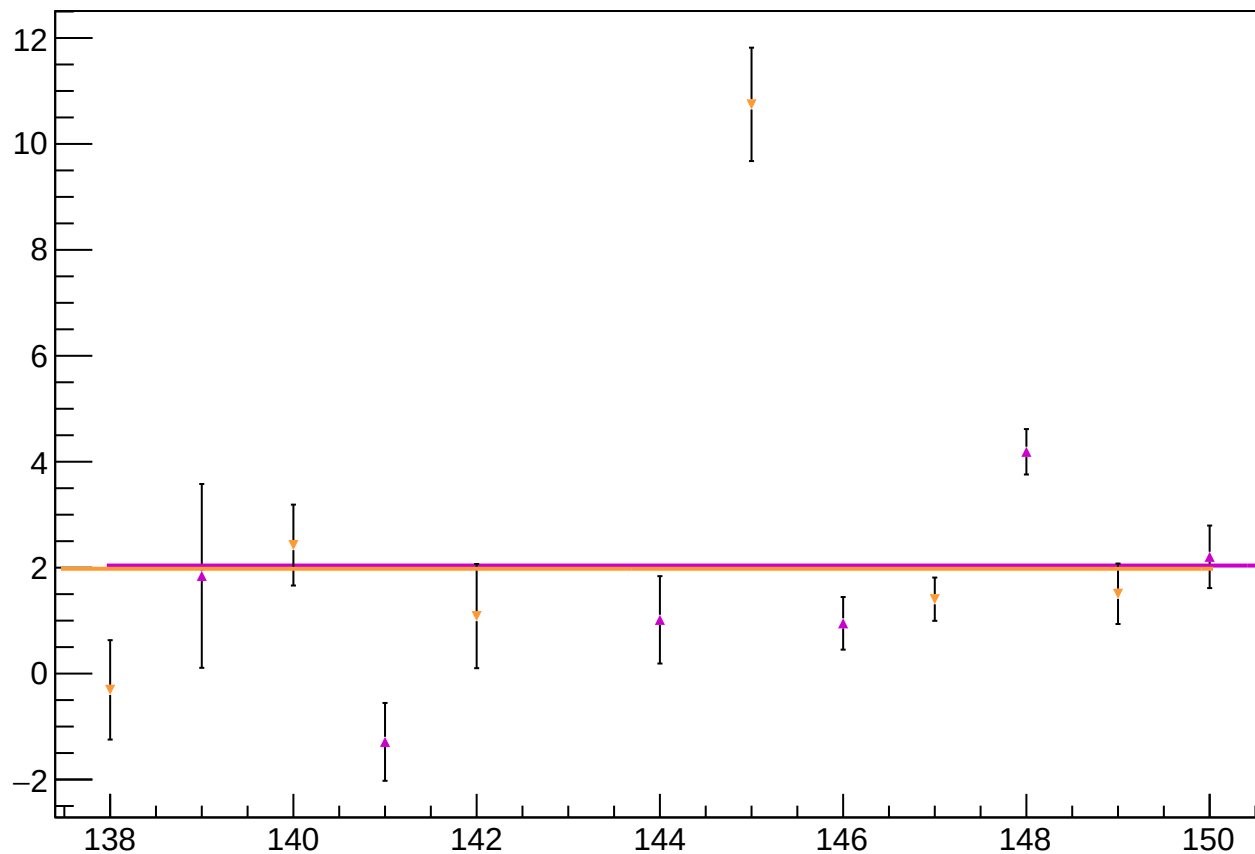
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -42.322+/-0.386  $\chi^2/\text{NDF}$ : 224.4/5

Out: -43.656+/-0.407  $\chi^2/\text{NDF}$ : 468.5/5

All: -42.953+/-0.280  $\chi^2/\text{NDF}$ : 698.5/11

reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.979 $\pm$ 0.269  $\chi^2$ /NDF:76.8/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.040 $\pm$ 0.250  $\chi^2$ /NDF:52.1/5

Left: 2.012 $\pm$ 0.183  $\chi^2$ /NDF: 128.9/11

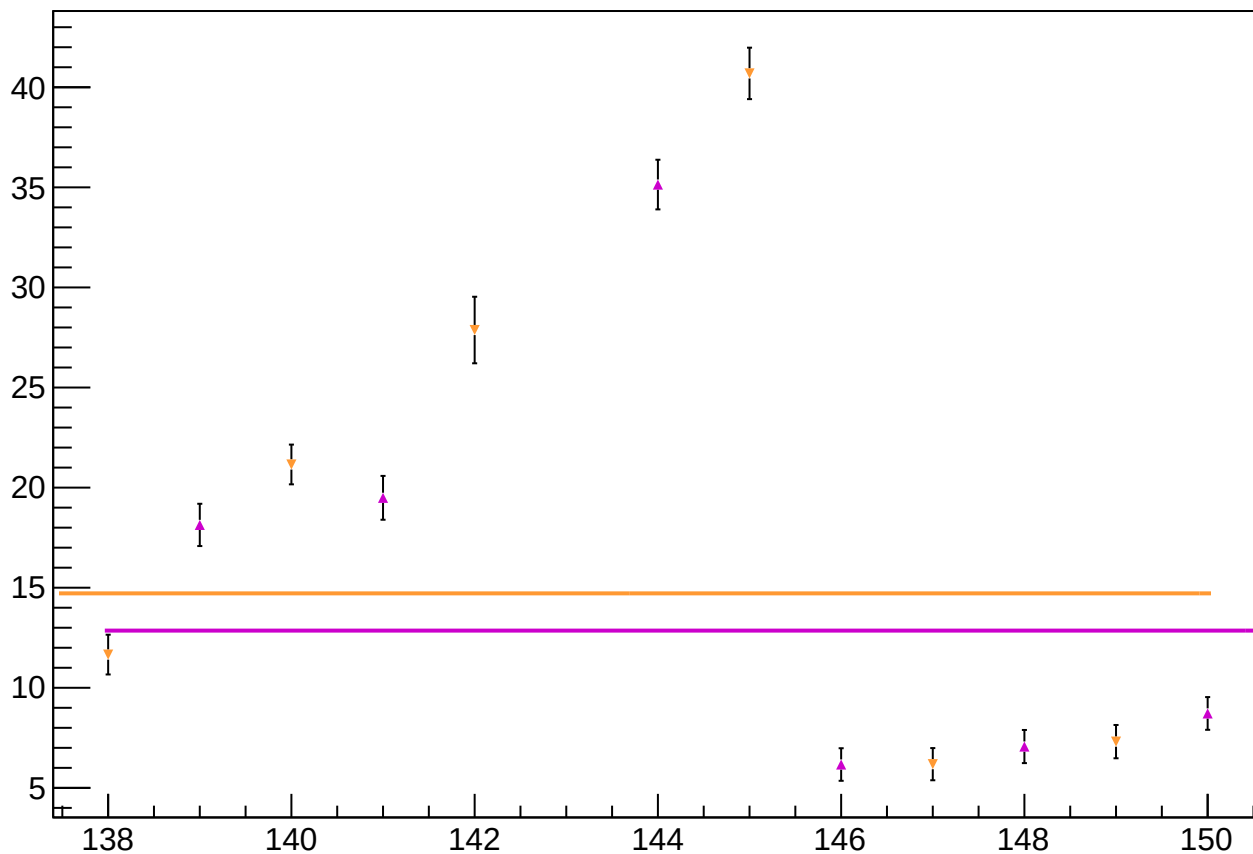
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 2.040 $\pm$ 0.250  $\chi^2$ /NDF:52.1/5

Out: 1.979 $\pm$ 0.269  $\chi^2$ /NDF:76.8/5

All: 2.012 $\pm$ 0.183  $\chi^2$ /NDF: 128.9/11

reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 14.717 $\pm$ 0.409  $\chi^2$ /NDF:714.5/5  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 12.857 $\pm$ 0.382  $\chi^2$ /NDF:526.8/5

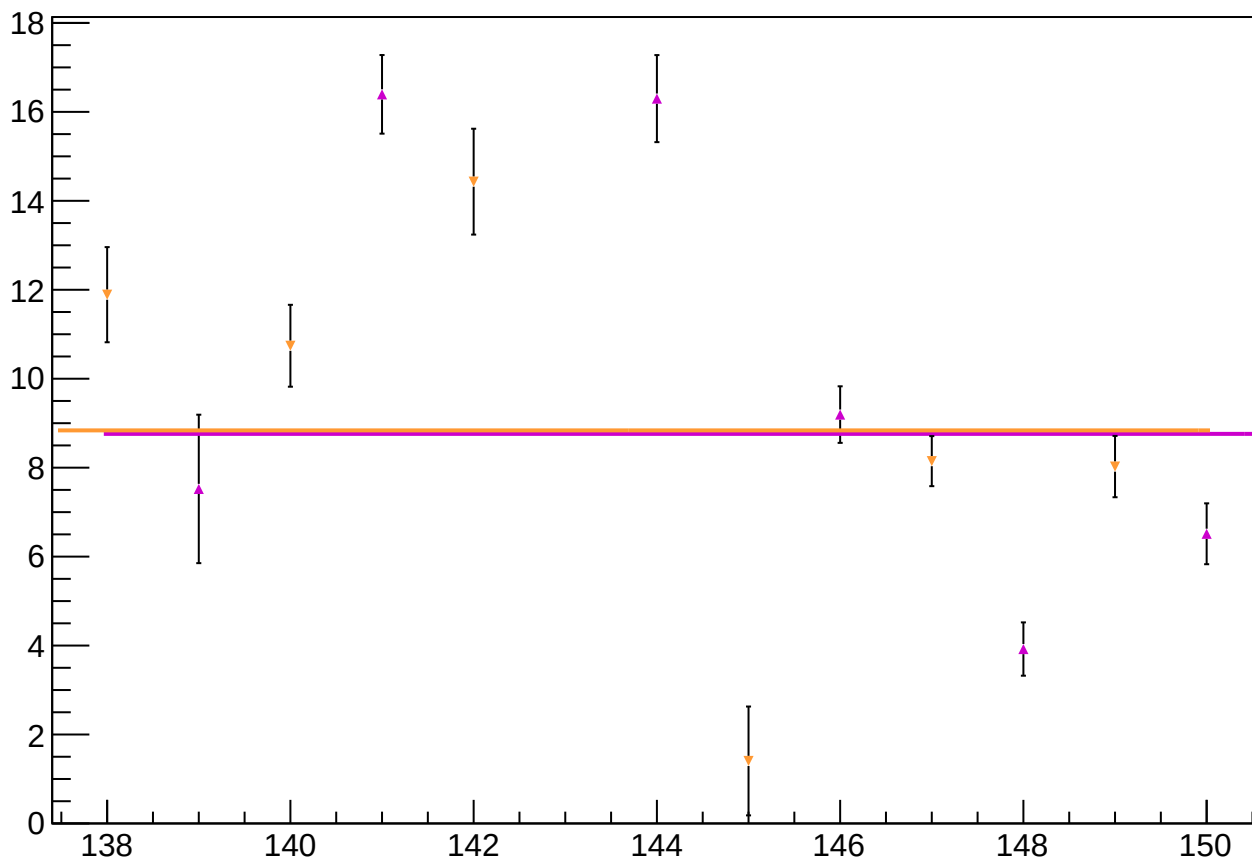
Left: 13.725 $\pm$ 0.279  $\chi^2$ /NDF: 1252.3/11  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 12.857 $\pm$ 0.382  $\chi^2$ /NDF:526.8/5  
 Out: 14.717 $\pm$ 0.409  $\chi^2$ /NDF:714.5/5

All: 13.725 $\pm$ 0.279  $\chi^2$ /NDF: 1252.3/11



reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 8.838 $\pm$ 0.339  $\chi^2$ /NDF:74.3/5

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 8.760 $\pm$ 0.315  $\chi^2$ /NDF:210.9/5

Left: 8.796 $\pm$ 0.231  $\chi^2$ /NDF: 285.2/11

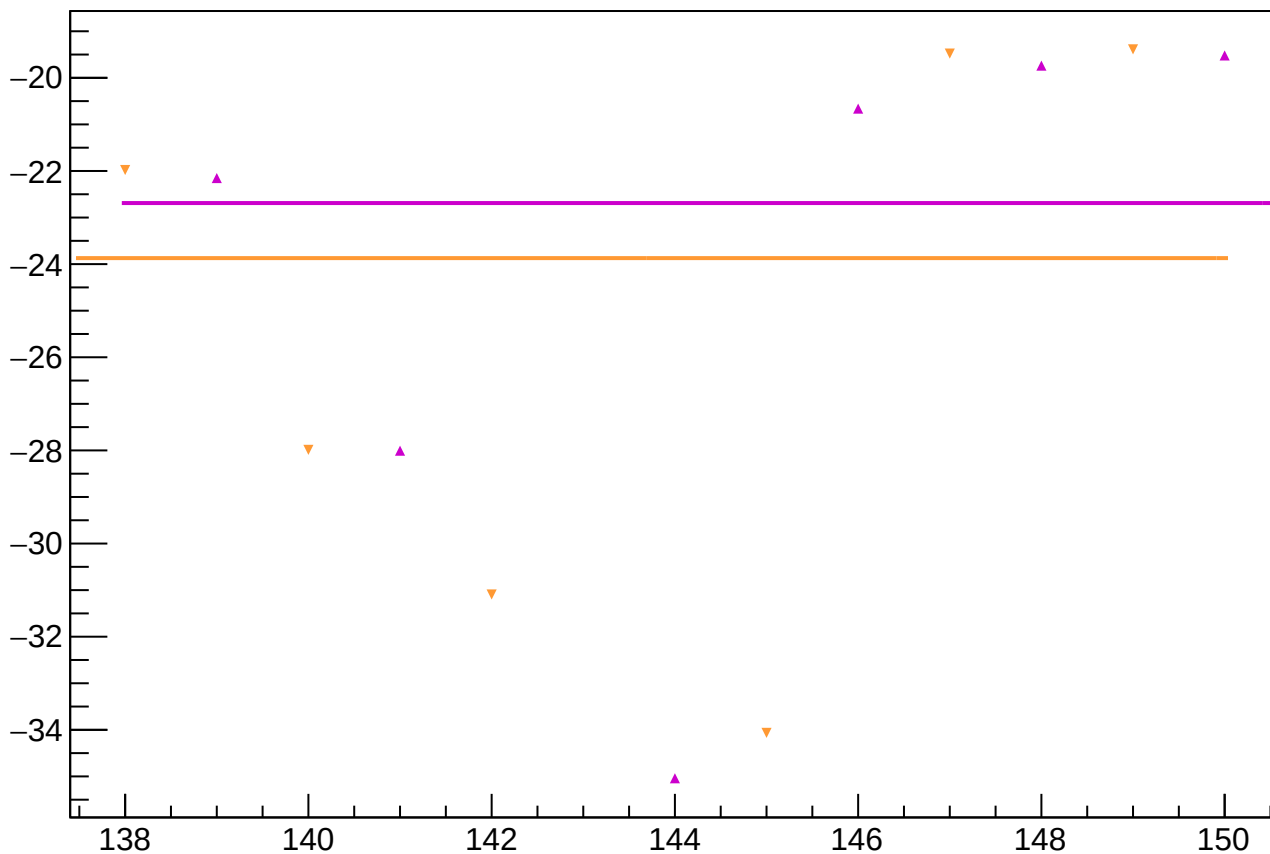
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 8.760 $\pm$ 0.315  $\chi^2$ /NDF:210.9/5

Out: 8.838 $\pm$ 0.339  $\chi^2$ /NDF:74.3/5

All: 8.796 $\pm$ 0.231  $\chi^2$ /NDF: 285.2/11

reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -23.871+/-0.018  $\chi^2/\text{NDF}$ :92070.5/5

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -22.689+/-0.016  $\chi^2/\text{NDF}$ :84569.6/5

Left: -23.224+/-0.012  $\chi^2/\text{NDF}$ : 179135.5/11

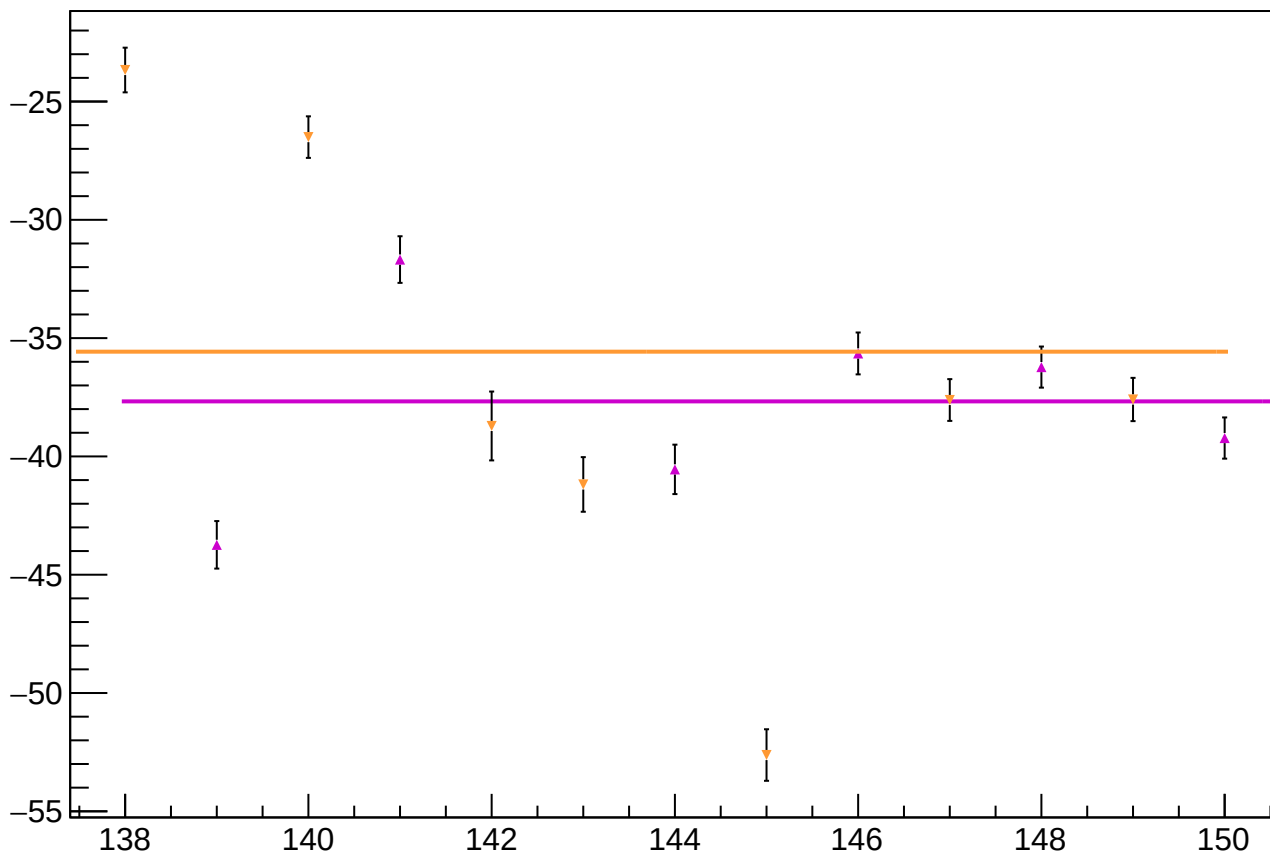
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.689+/-0.016  $\chi^2/\text{NDF}$ :84569.6/5

Out: -23.871+/-0.018  $\chi^2/\text{NDF}$ :92070.5/5

All: -23.224+/-0.012  $\chi^2/\text{NDF}$ : 179135.5/11

reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -35.573+/-0.379  $\chi^2/\text{NDF}$ :549.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -37.674+/-0.382  $\chi^2/\text{NDF}$ :92.2/5

Left: -36.615+/-0.269  $\chi^2/\text{NDF}$ : 656.5/12

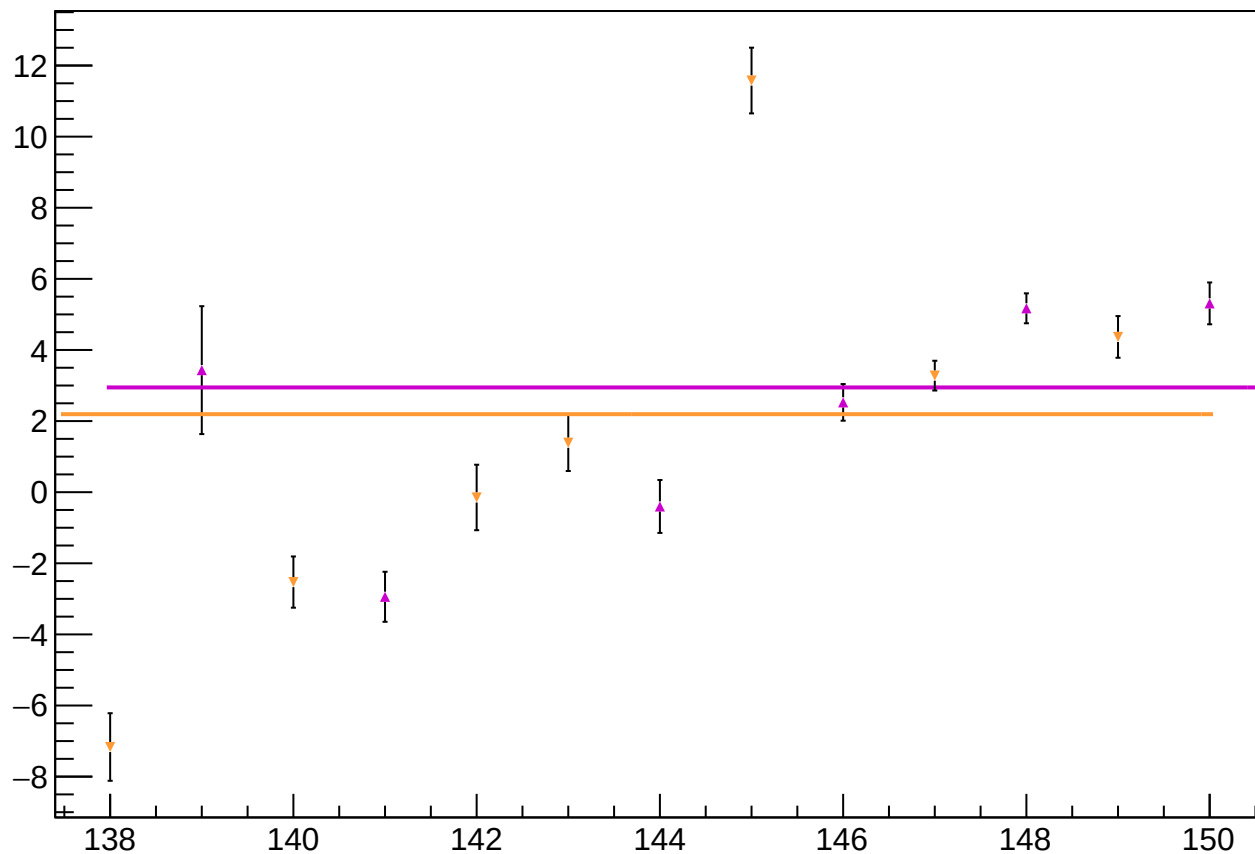
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -37.674+/-0.382  $\chi^2/\text{NDF}$ :92.2/5

Out: -35.573+/-0.379  $\chi^2/\text{NDF}$ :549.0/6

All: -36.615+/-0.269  $\chi^2/\text{NDF}$ : 656.5/12

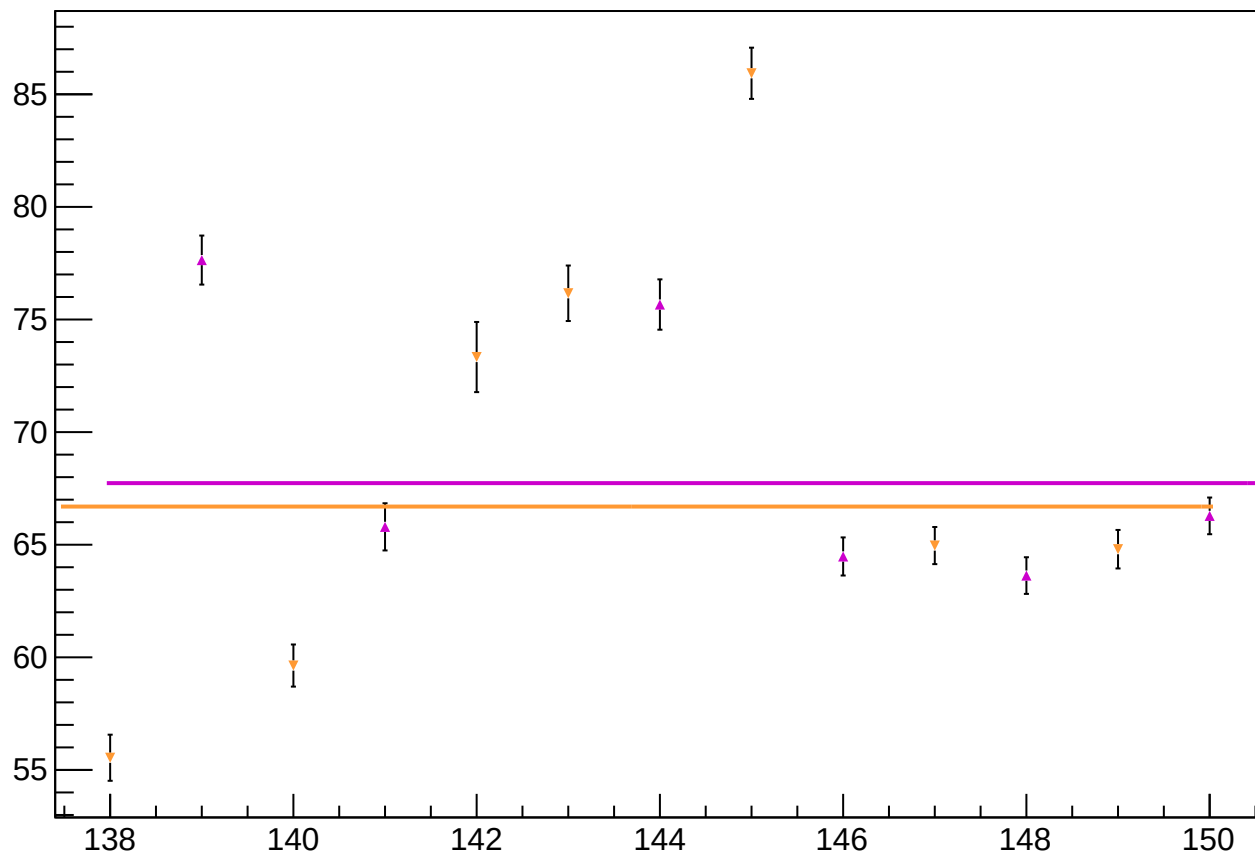
reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 2.194+/-0.253  $\chi^2/\text{NDF}$ :271.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.946+/-0.247  $\chi^2/\text{NDF}$ :135.1/5

Left: 2.580+/-0.177  $\chi^2/\text{NDF}$ : 410.6/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.946+/-0.247  $\chi^2/\text{NDF}$ :135.1/5  
 Out: 2.194+/-0.253  $\chi^2/\text{NDF}$ :271.0/6  
 All: 2.580+/-0.177  $\chi^2/\text{NDF}$ : 410.6/12

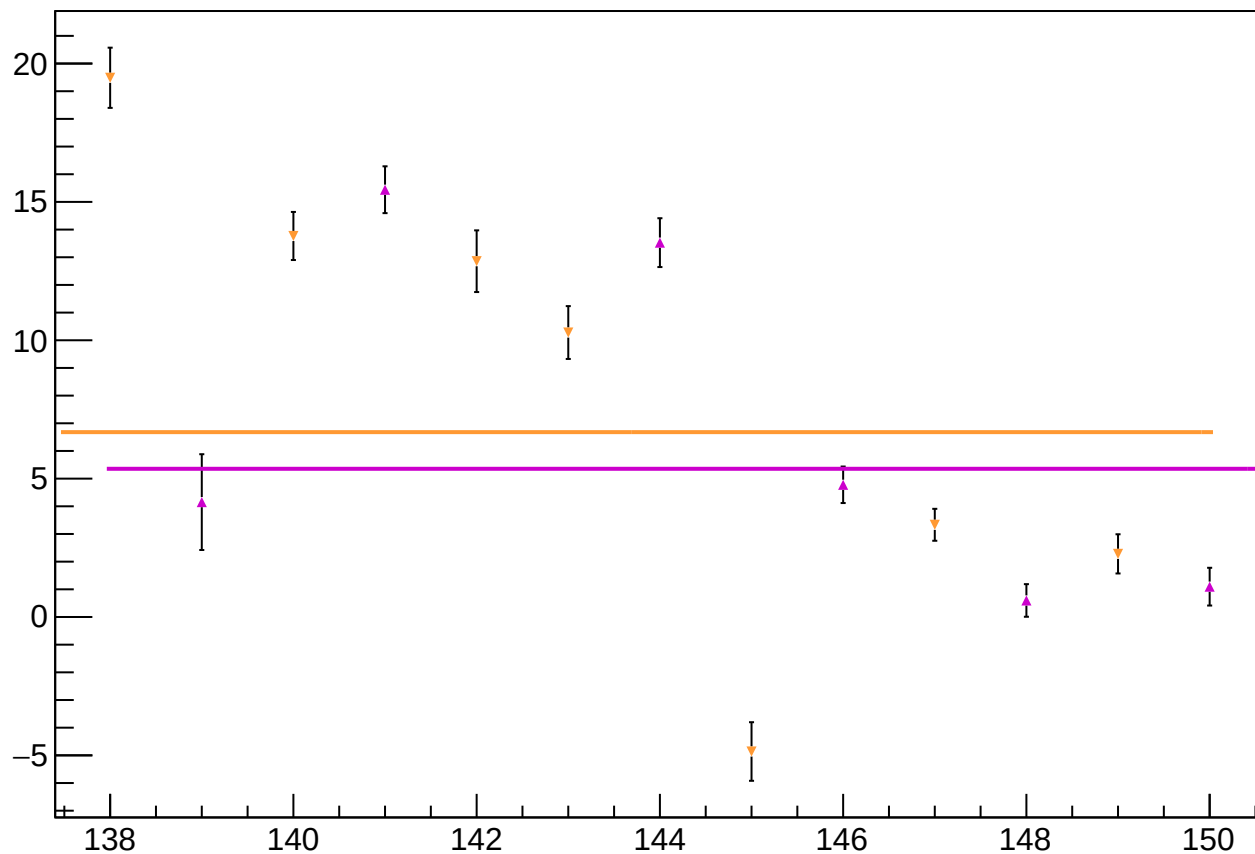
reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 66.694+/-0.384  $\chi^2/\text{NDF}$ :548.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 67.735+/-0.379  $\chi^2/\text{NDF}$ :180.0/5

Left: 67.222+/-0.270  $\chi^2/\text{NDF}$ : 732.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 67.735+/-0.379  $\chi^2/\text{NDF}$ :180.0/5  
 Out: 66.694+/-0.384  $\chi^2/\text{NDF}$ :548.3/6  
 All: 67.222+/-0.270  $\chi^2/\text{NDF}$ : 732.1/12

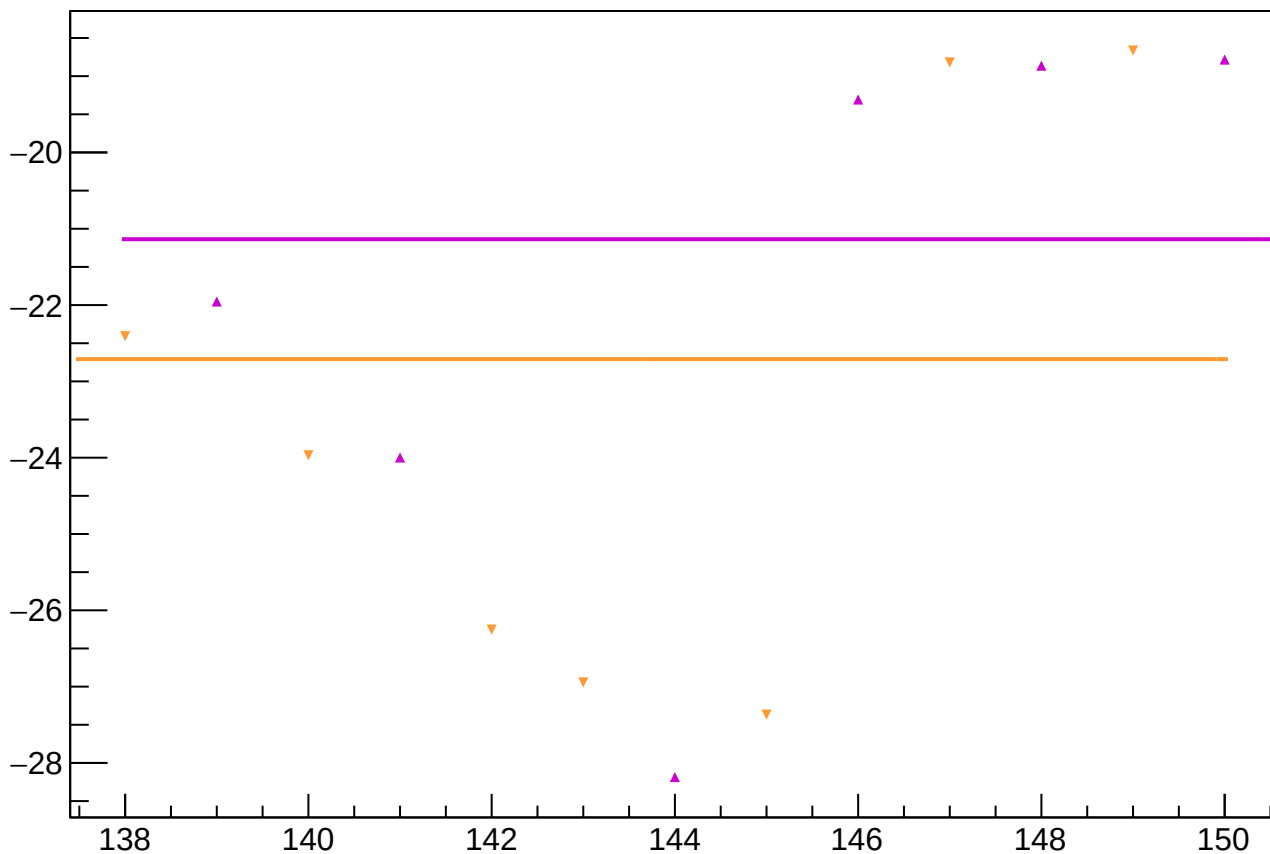
reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.680+/-0.317  $\chi^2/\text{NDF}$ :441.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.356+/-0.311  $\chi^2/\text{NDF}$ :333.4/5

Left: 6.005+/-0.222  $\chi^2/\text{NDF}$ : 783.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.356+/-0.311  $\chi^2/\text{NDF}$ :333.4/5  
 Out: 6.680+/-0.317  $\chi^2/\text{NDF}$ :441.1/6  
 All: 6.005+/-0.222  $\chi^2/\text{NDF}$ : 783.4/12

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



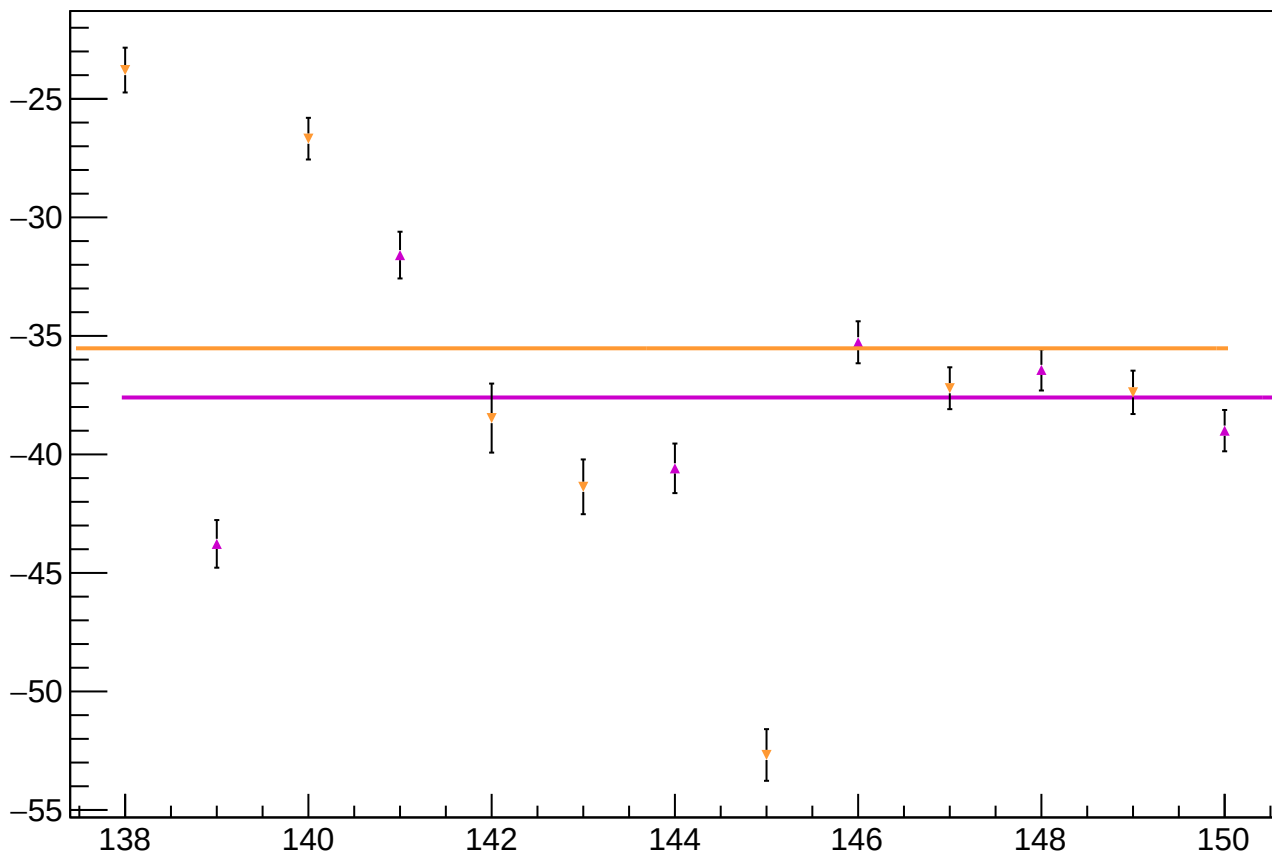
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -22.708+/-0.016  $\chi^2/\text{NDF}$ : 44199.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -21.137+/-0.016  $\chi^2/\text{NDF}$ : 37038.1/5

Left: -21.898+/-0.011  $\chi^2/\text{NDF}$ : 86023.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -21.137+/-0.016  $\chi^2/\text{NDF}$ : 37038.1/5  
 Out: -22.708+/-0.016  $\chi^2/\text{NDF}$ : 44199.4/6

All: -21.898+/-0.011  $\chi^2/\text{NDF}$ : 86023.3/12

reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -35.524+/-0.379  $\chi^2/\text{NDF}$ :540.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -37.598+/-0.382  $\chi^2/\text{NDF}$ :94.3/5

Left: -36.553+/-0.269  $\chi^2/\text{NDF}$ : 650.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

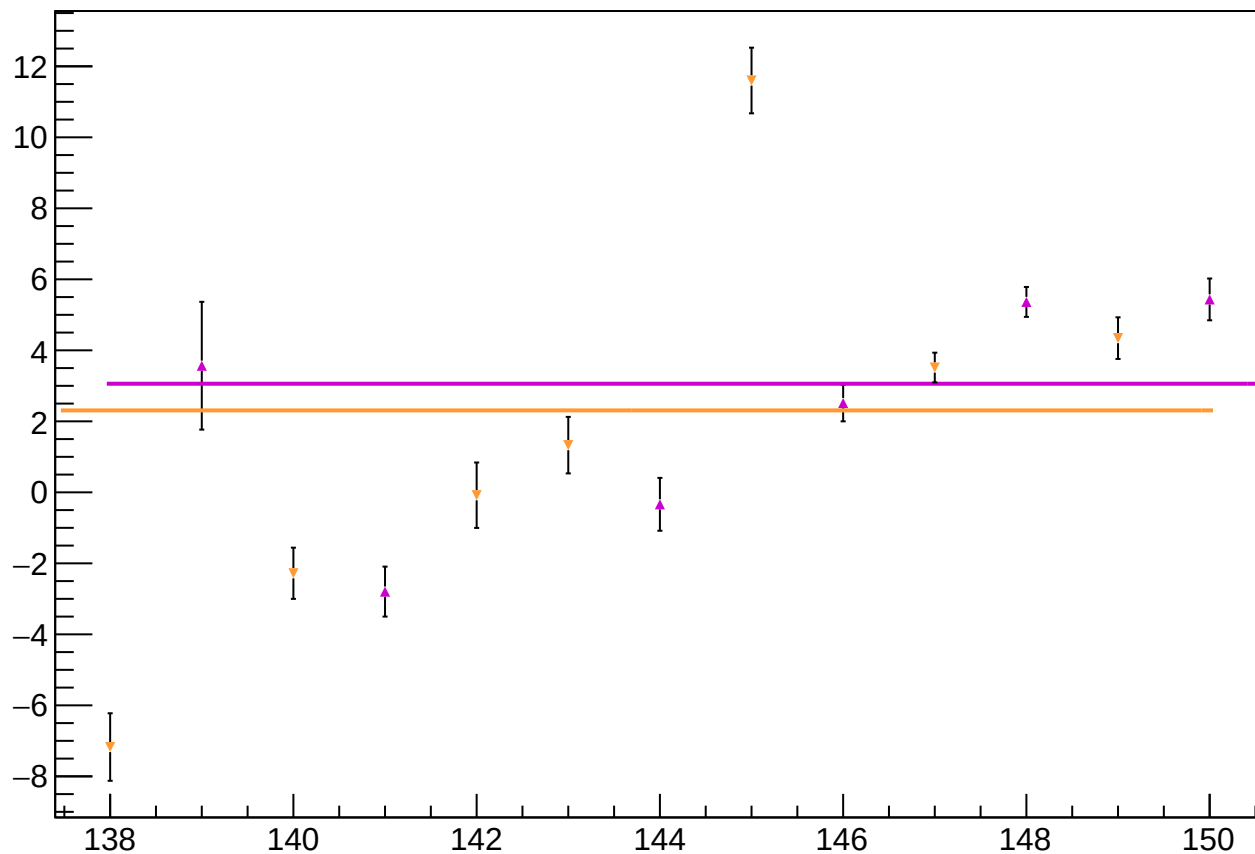
In: -37.598+/-0.382  $\chi^2/\text{NDF}$ :94.3/5

Out: -35.524+/-0.379  $\chi^2/\text{NDF}$ :540.8/6

All: -36.553+/-0.269  $\chi^2/\text{NDF}$ : 650.0/12



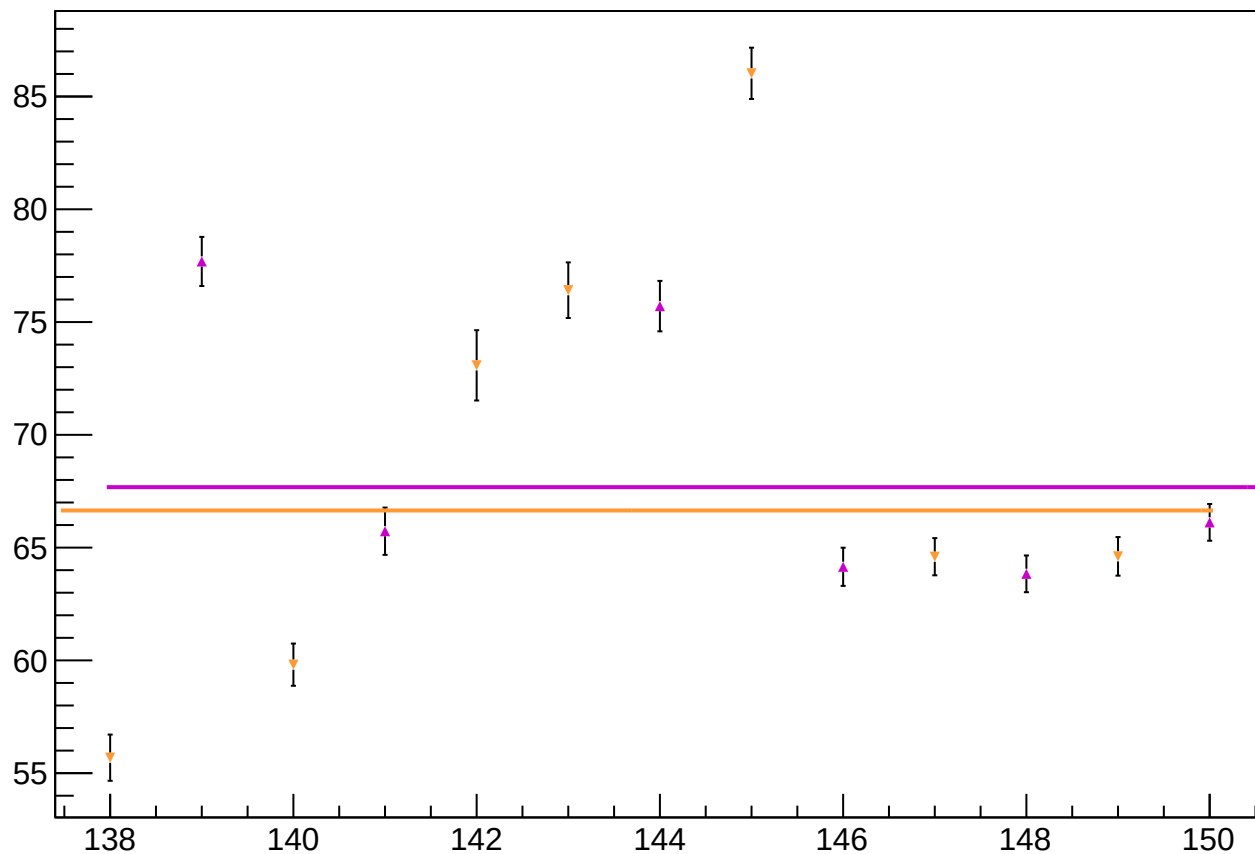
reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 2.308 $\pm$ 0.253  $\chi^2$ /NDF:269.4/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 3.059 $\pm$ 0.247  $\chi^2$ /NDF:137.4/5

Left: 2.693 $\pm$ 0.177  $\chi^2$ /NDF: 411.4/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 3.059 $\pm$ 0.247  $\chi^2$ /NDF:137.4/5  
 Out: 2.308 $\pm$ 0.253  $\chi^2$ /NDF:269.4/6  
 All: 2.693 $\pm$ 0.177  $\chi^2$ /NDF: 411.4/12

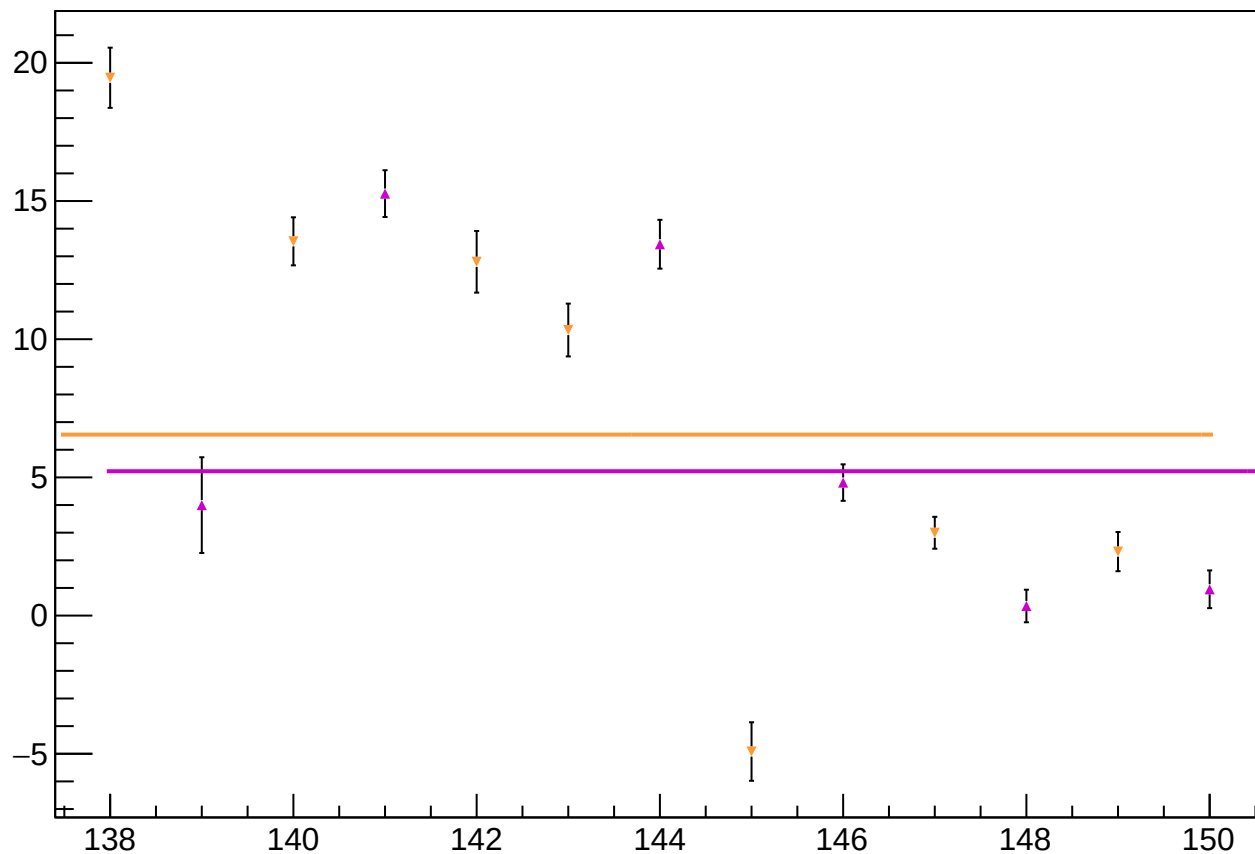
reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 66.647 $\pm$ 0.384  $\chi^2$ /NDF:549.5/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 67.681 $\pm$ 0.379  $\chi^2$ /NDF:182.7/5

Left: 67.171 $\pm$ 0.270  $\chi^2$ /NDF: 735.9/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 67.681 $\pm$ 0.379  $\chi^2$ /NDF:182.7/5  
 Out: 66.647 $\pm$ 0.384  $\chi^2$ /NDF:549.5/6  
 All: 67.171 $\pm$ 0.270  $\chi^2$ /NDF: 735.9/12

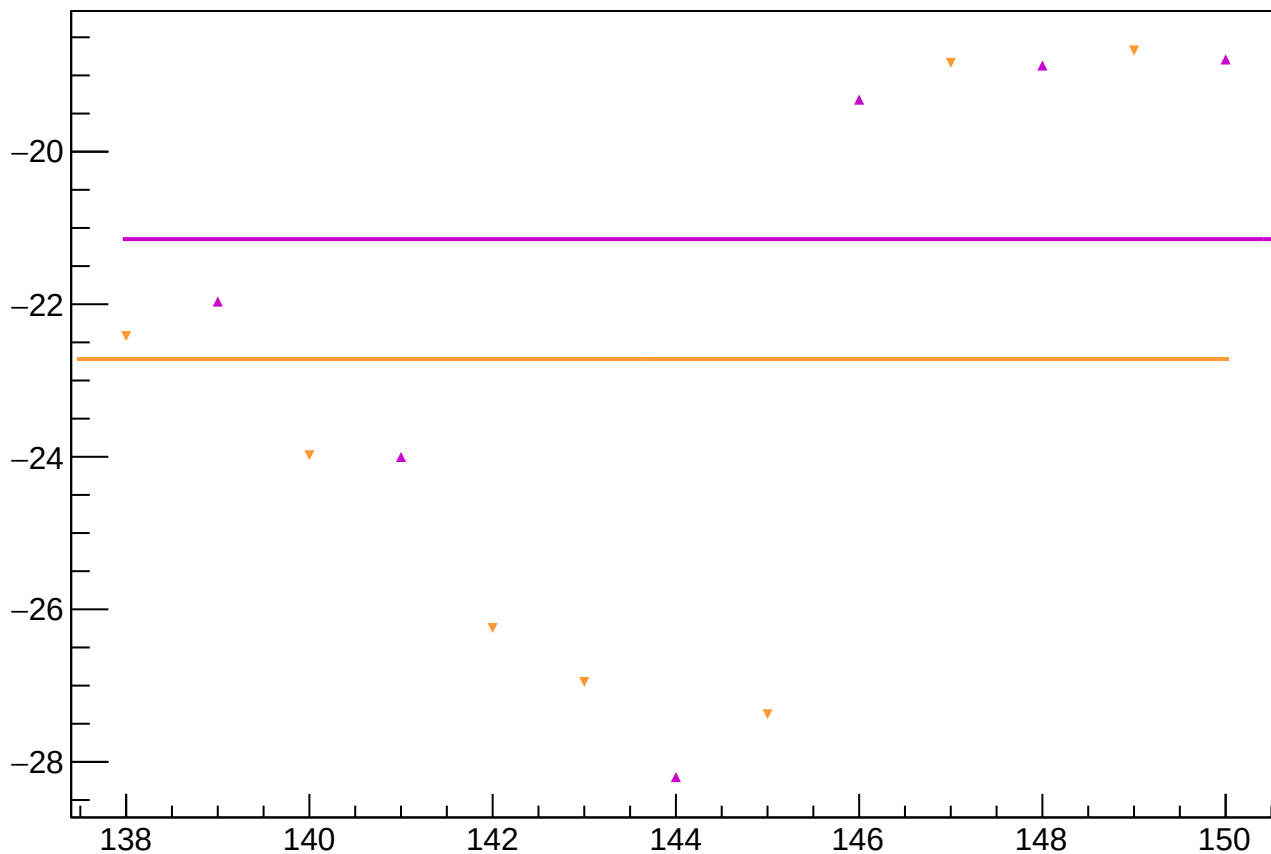
reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.548+/-0.317  $\chi^2/\text{NDF}$ :443.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.224+/-0.311  $\chi^2/\text{NDF}$ :335.8/5

Left: 5.874+/-0.222  $\chi^2/\text{NDF}$ : 787.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.224+/-0.311  $\chi^2/\text{NDF}$ :335.8/5  
 Out: 6.548+/-0.317  $\chi^2/\text{NDF}$ :443.2/6  
 All: 5.874+/-0.222  $\chi^2/\text{NDF}$ : 787.9/12

reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -22.718+/-0.016  $\chi^2/\text{NDF}$ : 44089.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -21.146+/-0.016  $\chi^2/\text{NDF}$ : 37011.2/5

Left: -21.908+/-0.011  $\chi^2/\text{NDF}$ : 85883.3/12

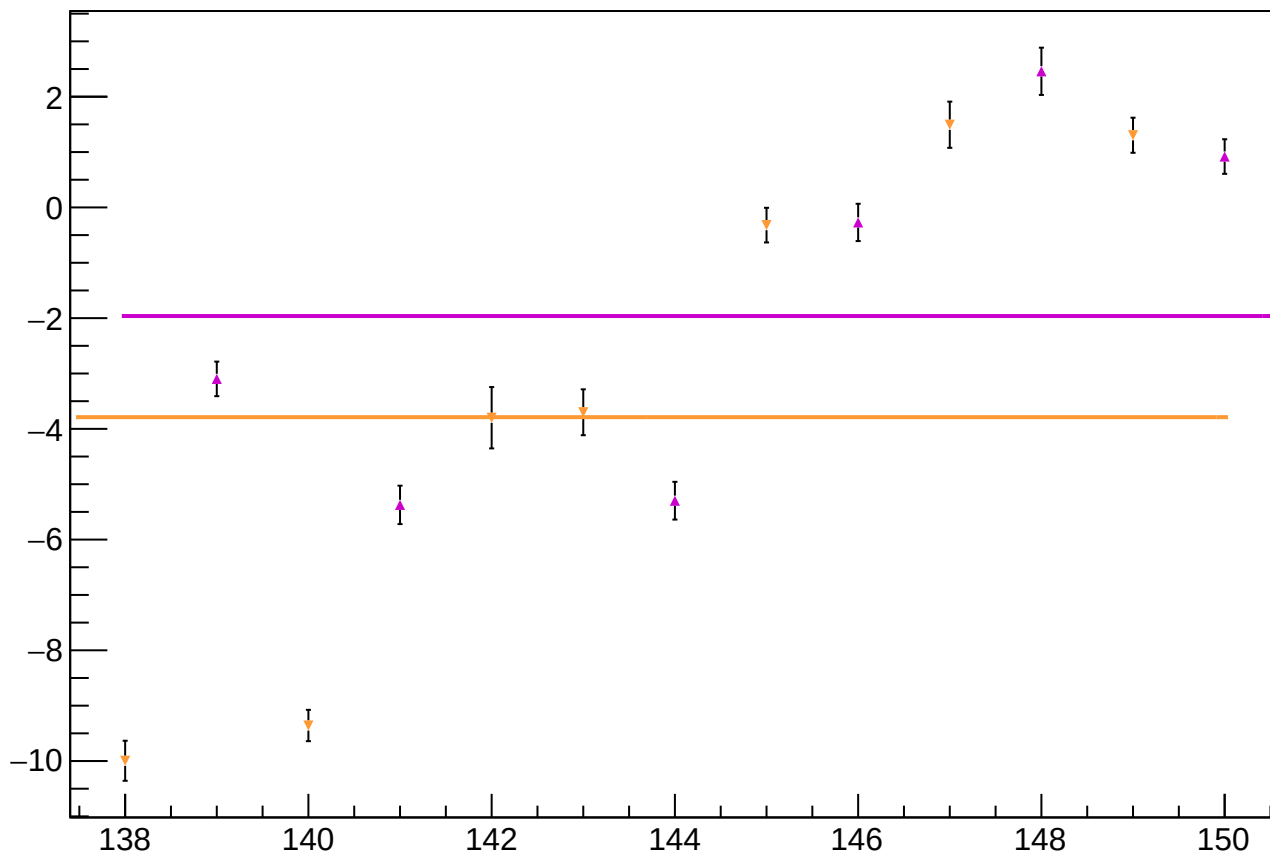
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -21.146+/-0.016  $\chi^2/\text{NDF}$ : 37011.2/5

Out: -22.718+/-0.016  $\chi^2/\text{NDF}$ : 44089.3/6

All: -21.908+/-0.011  $\chi^2/\text{NDF}$ : 85883.3/12

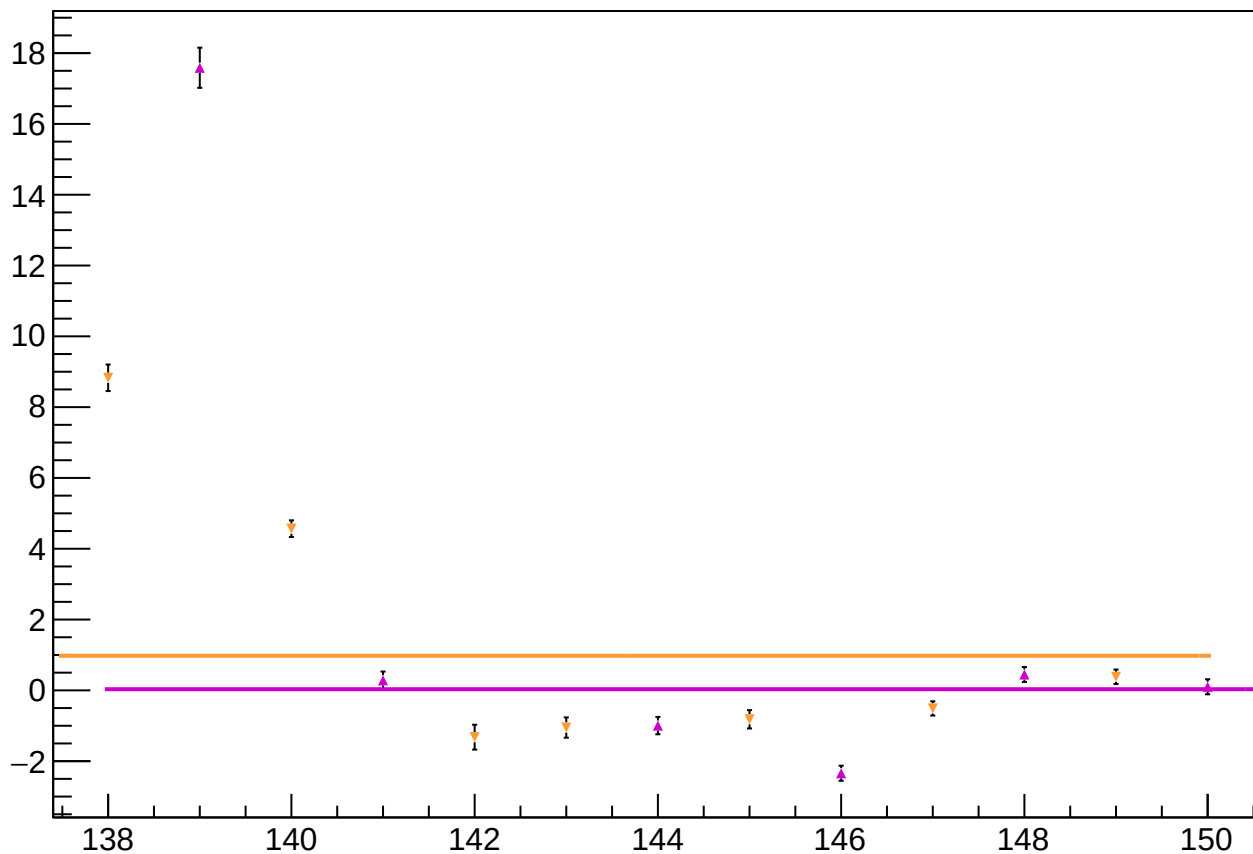
reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.789+/-0.135  $\chi^2/\text{NDF}$ :1223.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.962+/-0.139  $\chi^2/\text{NDF}$ :423.2/5

Left: -2.904+/-0.097  $\chi^2/\text{NDF}$ : 1735.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.962+/-0.139  $\chi^2/\text{NDF}$ :423.2/5  
 Out: -3.789+/-0.135  $\chi^2/\text{NDF}$ :1223.5/6  
 All: -2.904+/-0.097  $\chi^2/\text{NDF}$ : 1735.8/12

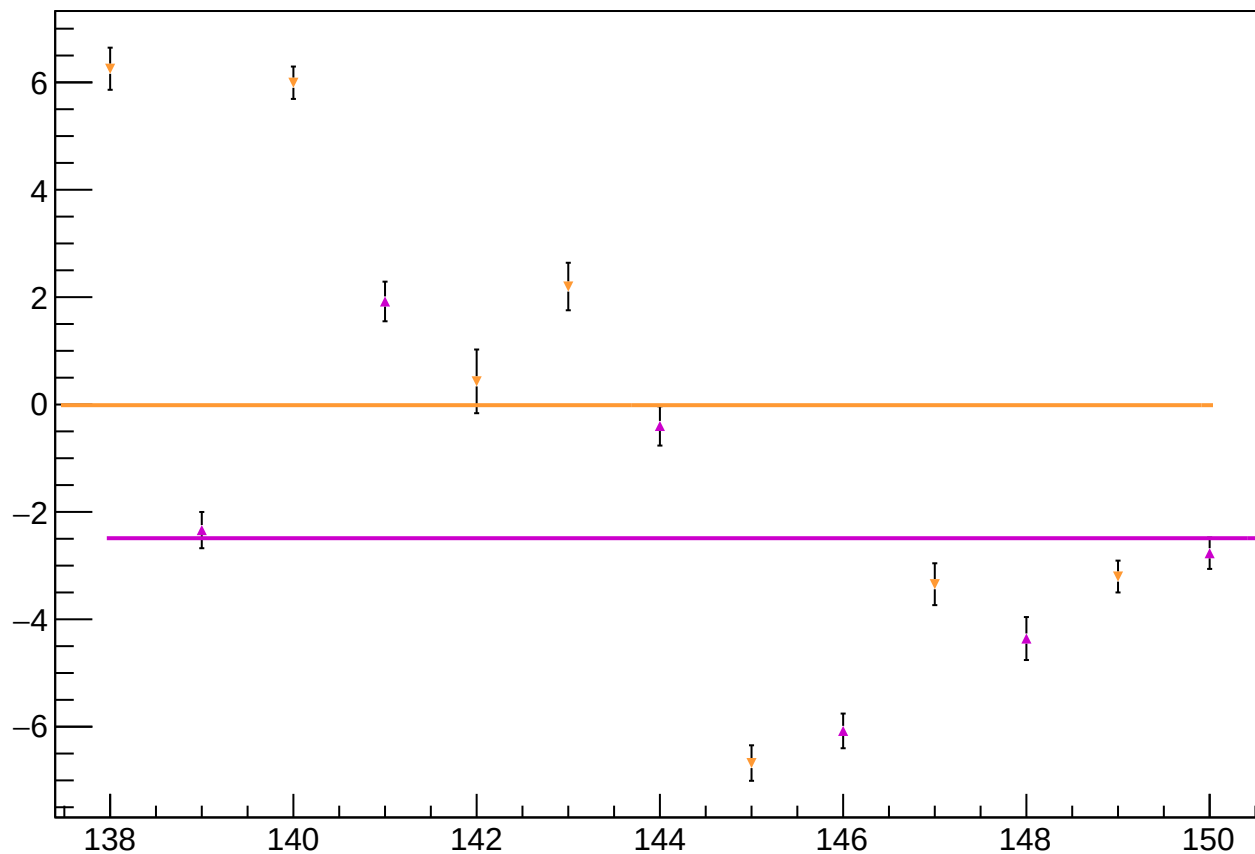
reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.978+/-0.096  $\chi^2/\text{NDF}$ :877.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.033+/-0.099  $\chi^2/\text{NDF}$ :1103.4/5

Left: 0.519+/-0.069  $\chi^2/\text{NDF}$ : 2027.6/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.033+/-0.099  $\chi^2/\text{NDF}$ :1103.4/5  
 Out: 0.978+/-0.096  $\chi^2/\text{NDF}$ :877.0/6  
 All: 0.519+/-0.069  $\chi^2/\text{NDF}$ : 2027.6/12

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



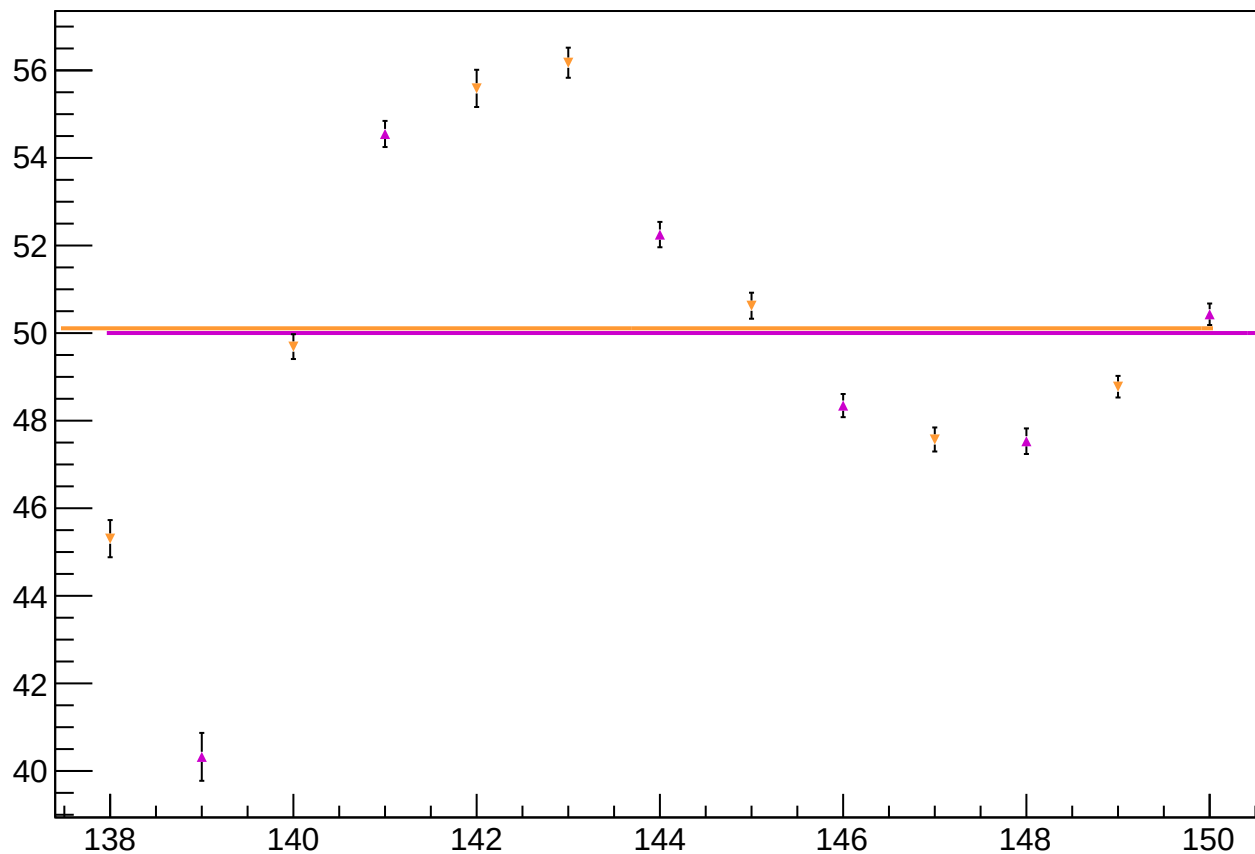
Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.012 $\pm$ 0.138  $\chi^2$ /NDF:1273.1/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -2.490 $\pm$ 0.140  $\chi^2$ /NDF:322.0/5

Left: -1.234 $\pm$ 0.098  $\chi^2$ /NDF: 1754.3/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -2.490 $\pm$ 0.140  $\chi^2$ /NDF:322.0/5  
 Out: -0.012 $\pm$ 0.138  $\chi^2$ /NDF:1273.1/6

All: -1.234 $\pm$ 0.098  $\chi^2$ /NDF: 1754.3/12

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

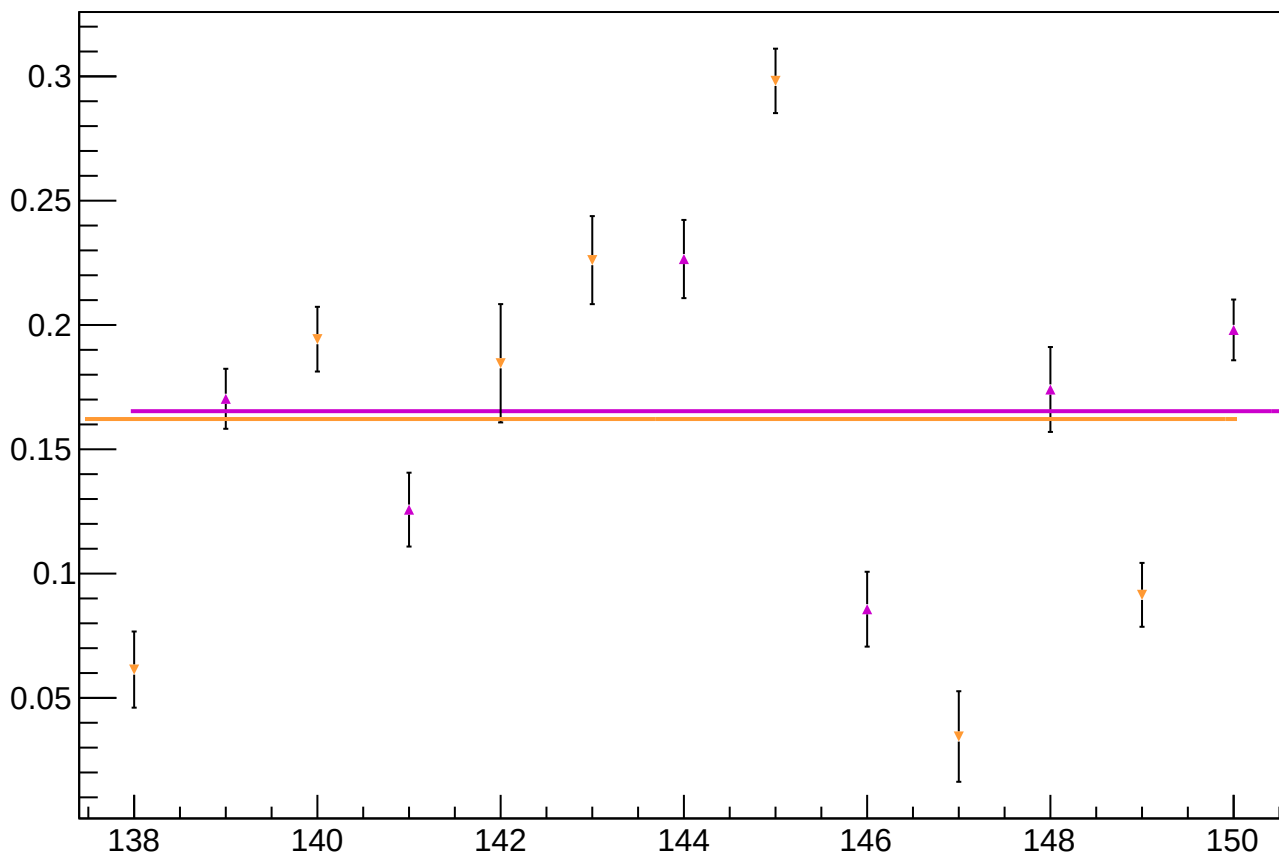


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 50.110+/-0.117  $\chi^2/\text{NDF}$ : 725.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 50.002+/-0.120  $\chi^2/\text{NDF}$ : 719.6/5

Left: 50.057+/-0.084  $\chi^2/\text{NDF}$ : 1445.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 50.002+/-0.120  $\chi^2/\text{NDF}$ : 719.6/5  
 Out: 50.110+/-0.117  $\chi^2/\text{NDF}$ : 725.6/6  
 All: 50.057+/-0.084  $\chi^2/\text{NDF}$ : 1445.5/12



reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.162 $\pm$ 0.006  $\chi^2$ /NDF:252.9/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.165 $\pm$ 0.006  $\chi^2$ /NDF:57.8/5

Left: 0.164 $\pm$ 0.004  $\chi^2$ /NDF: 310.9/12

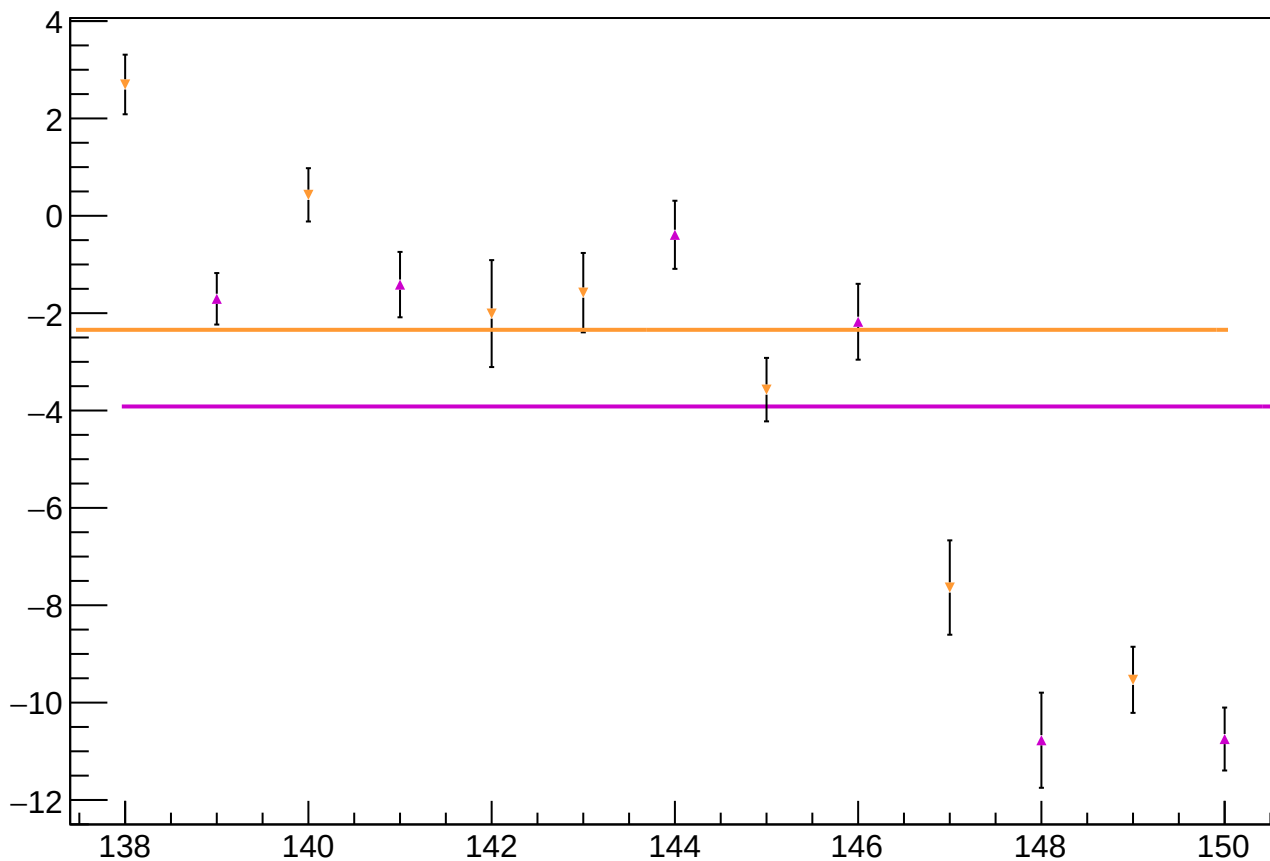
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.165 $\pm$ 0.006  $\chi^2$ /NDF:57.8/5

Out: 0.162 $\pm$ 0.006  $\chi^2$ /NDF:252.9/6

All: 0.164 $\pm$ 0.004  $\chi^2$ /NDF: 310.9/12

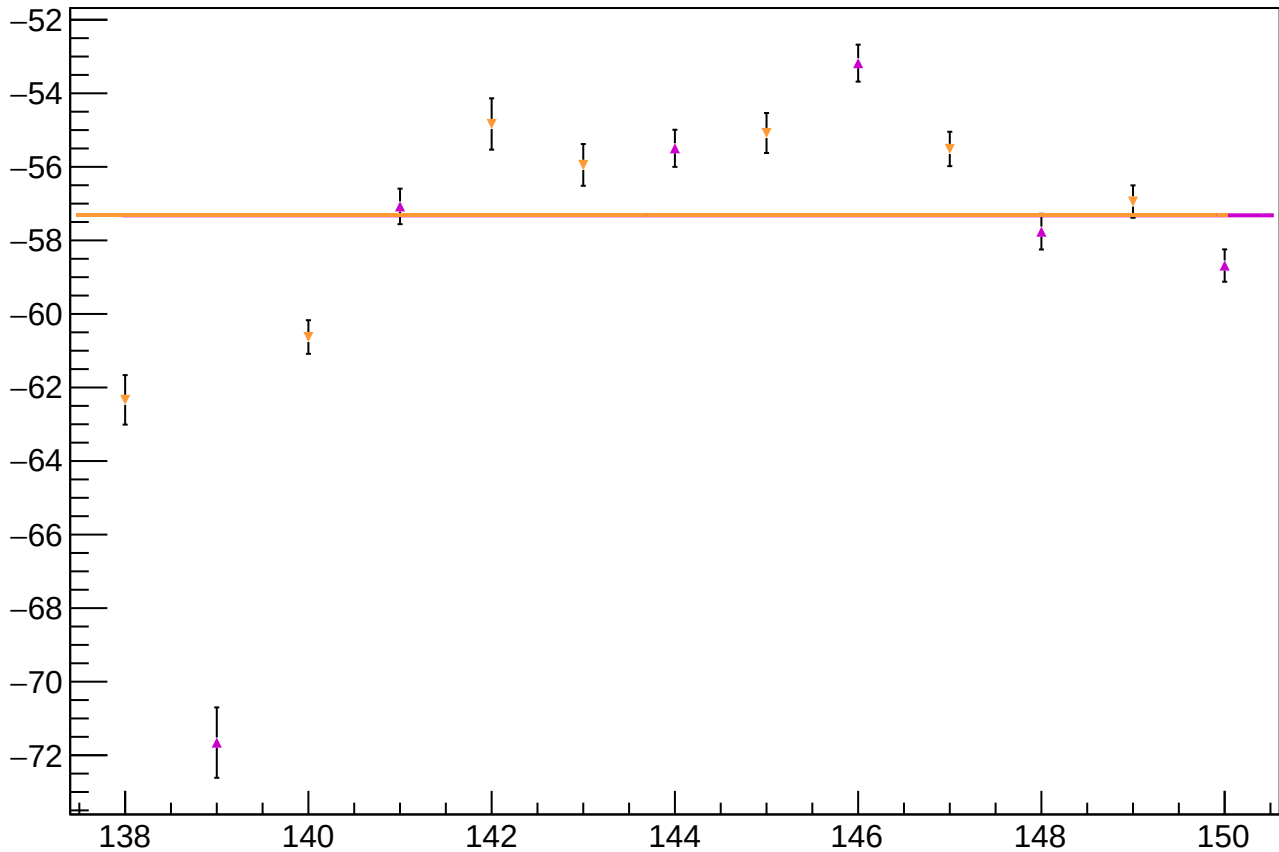
reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -2.342 $\pm$ 0.268  $\chi^2$ /NDF:239.9/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -3.917 $\pm$ 0.278  $\chi^2$ /NDF:222.7/5

Left: -3.100 $\pm$ 0.193  $\chi^2$ /NDF: 479.2/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -3.917 $\pm$ 0.278  $\chi^2$ /NDF:222.7/5  
 Out: -2.342 $\pm$ 0.268  $\chi^2$ /NDF:239.9/6  
 All: -3.100 $\pm$ 0.193  $\chi^2$ /NDF: 479.2/12

reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -57.309+/-0.199  $\chi^2/\text{NDF}$ :159.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -57.318+/-0.210  $\chi^2/\text{NDF}$ :315.9/5

Left: -57.313+/-0.144  $\chi^2/\text{NDF}$ : 474.9/12

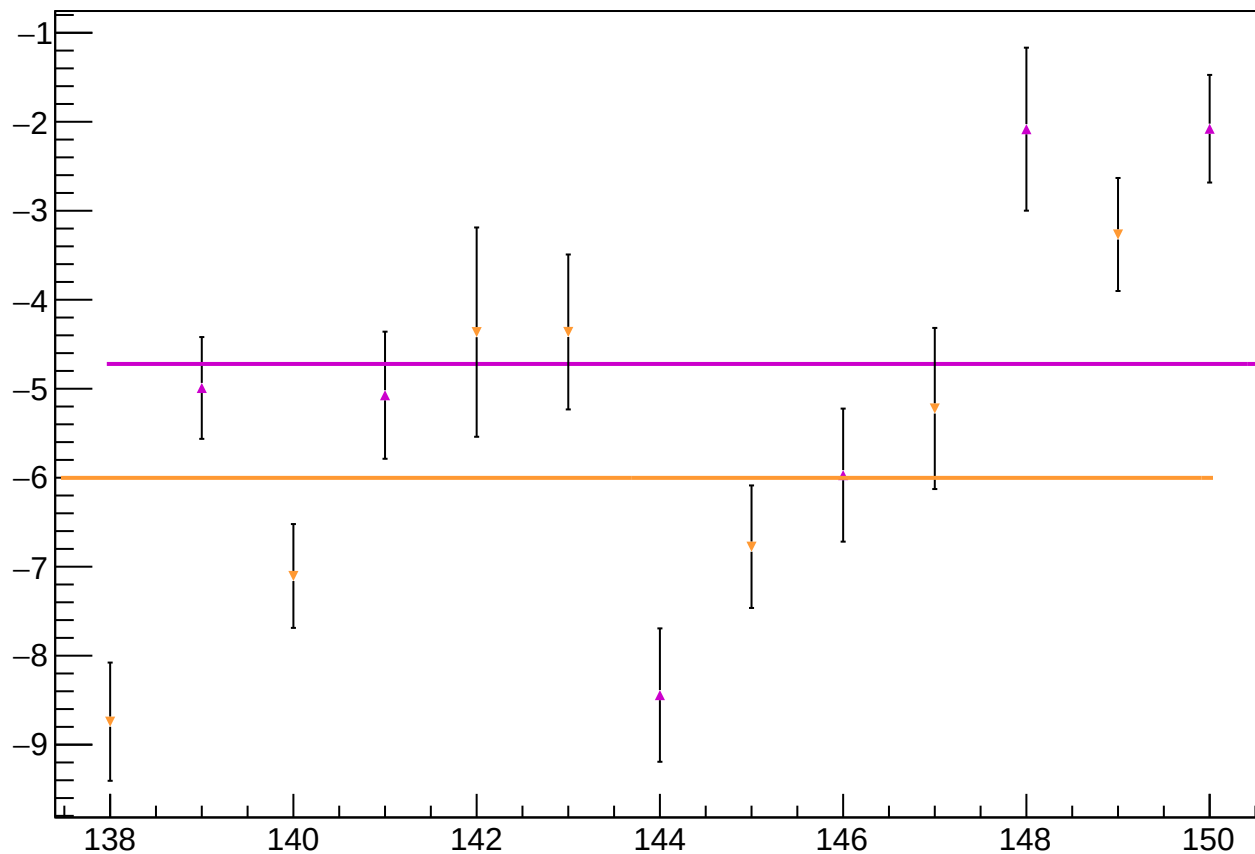
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -57.318+/-0.210  $\chi^2/\text{NDF}$ :315.9/5

Out: -57.309+/-0.199  $\chi^2/\text{NDF}$ :159.0/6

All: -57.313+/-0.144  $\chi^2/\text{NDF}$ : 474.9/12

reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -6.002 $\pm$ 0.277  $\chi^2$ /NDF:46.6/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -4.722 $\pm$ 0.283  $\chi^2$ /NDF:55.3/5

Left: -5.375 $\pm$ 0.198  $\chi^2$ /NDF: 112.4/12

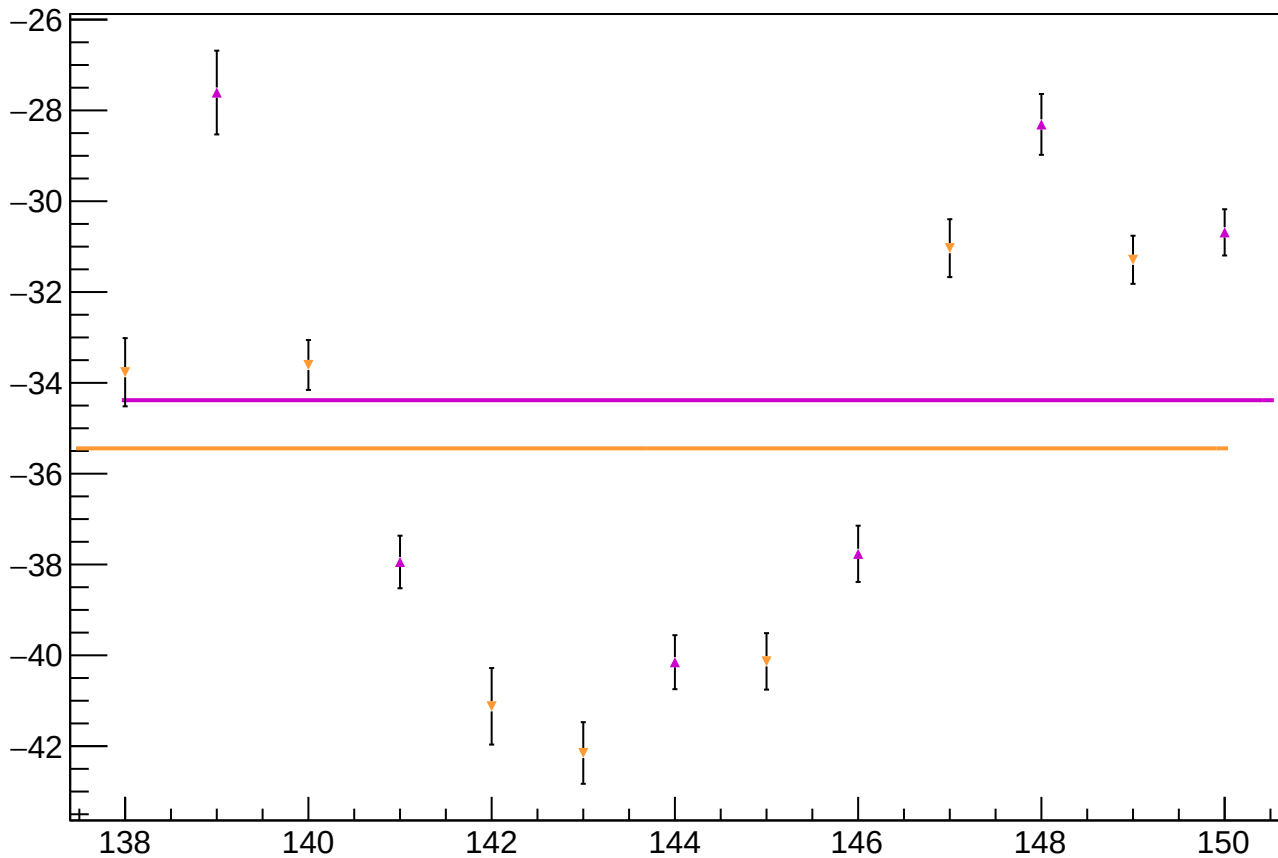
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -4.722 $\pm$ 0.283  $\chi^2$ /NDF:55.3/5

Out: -6.002 $\pm$ 0.277  $\chi^2$ /NDF:46.6/6

All: -5.375 $\pm$ 0.198  $\chi^2$ /NDF: 112.4/12

reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -35.442+/-0.241  $\chi^2/\text{NDF}$ :325.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -34.382+/-0.253  $\chi^2/\text{NDF}$ :350.7/5

Left: -34.938+/-0.174  $\chi^2/\text{NDF}$ : 685.5/12

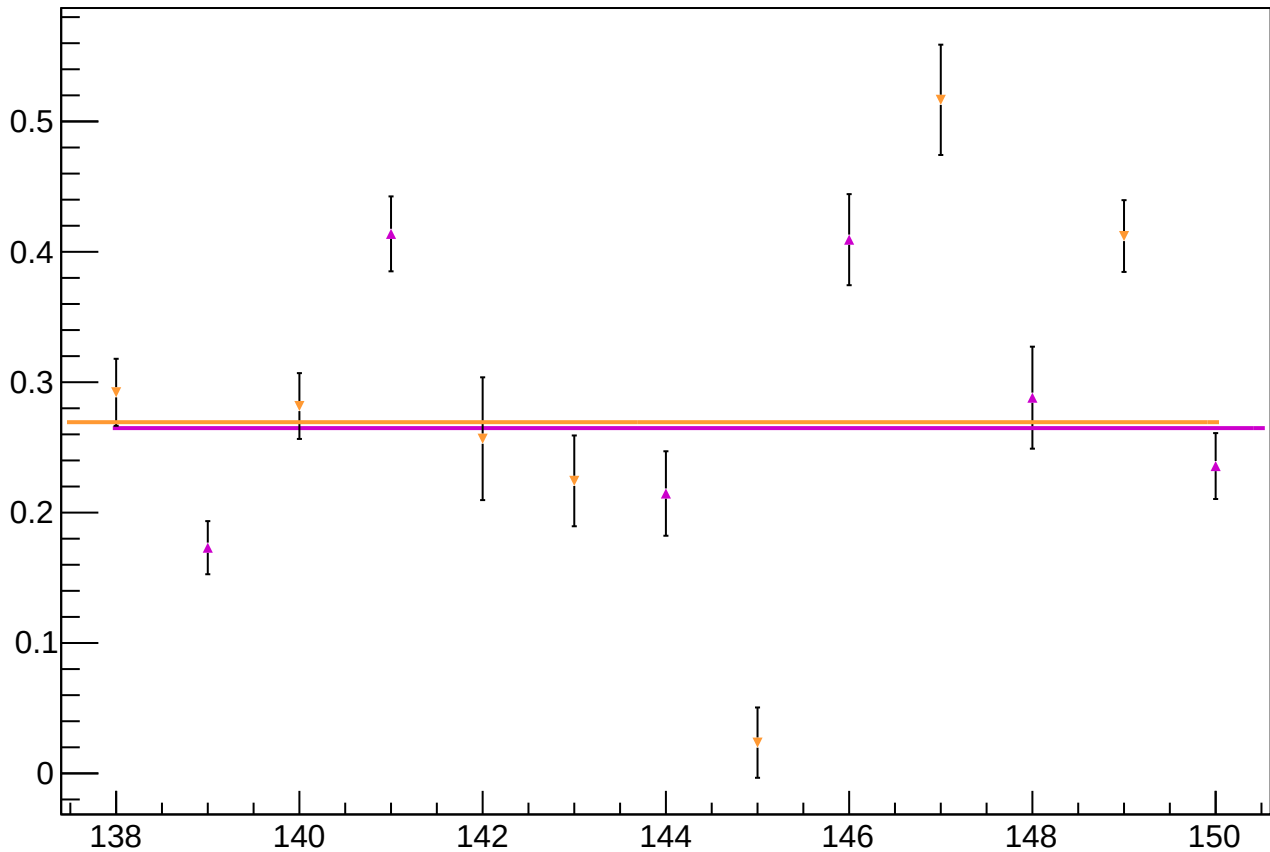
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -34.382+/-0.253  $\chi^2/\text{NDF}$ :350.7/5

Out: -35.442+/-0.241  $\chi^2/\text{NDF}$ :325.6/6

All: -34.938+/-0.174  $\chi^2/\text{NDF}$ : 685.5/12

reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.269+/-0.011  $\chi^2/\text{NDF}$ :146.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.265+/-0.011  $\chi^2/\text{NDF}$ :68.4/5

Left: 0.267+/-0.008  $\chi^2/\text{NDF}$ : 215.3/12

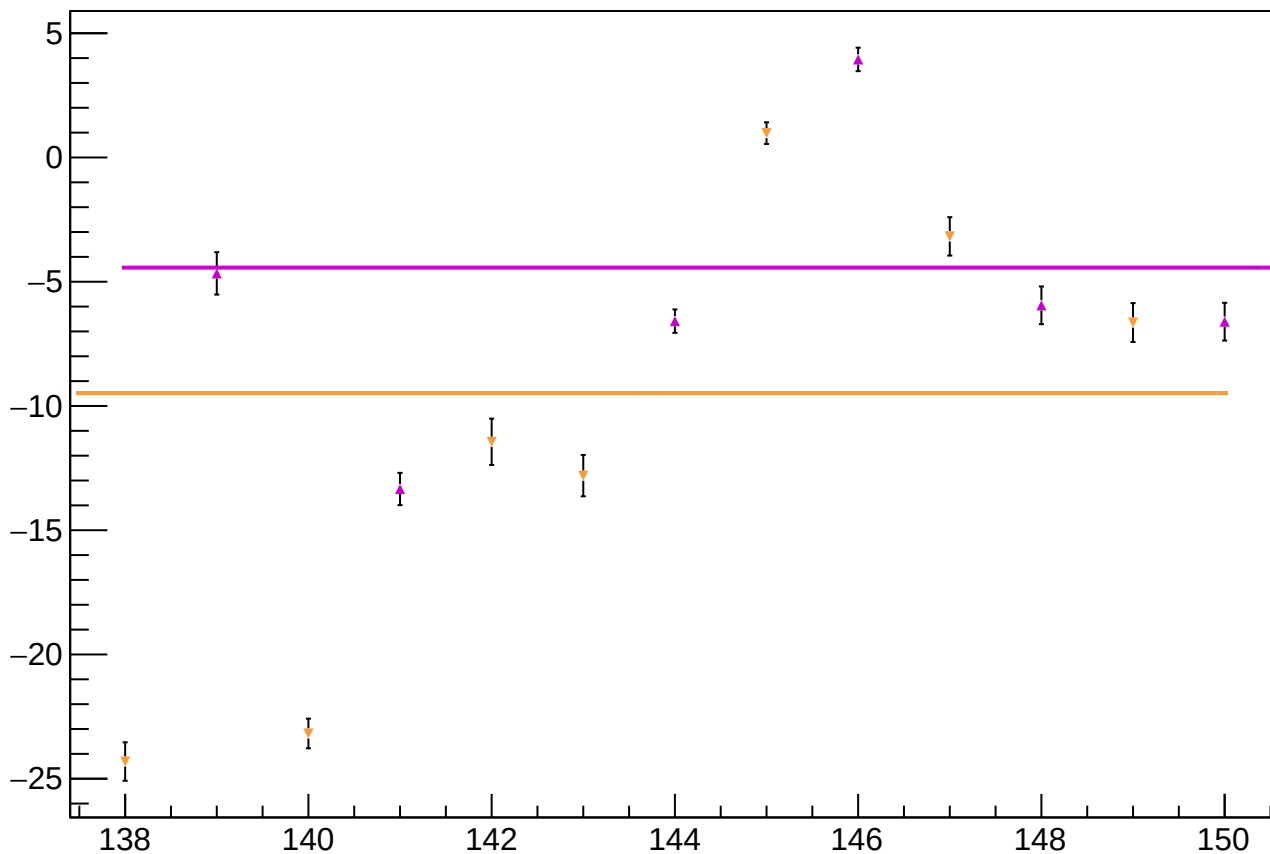
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.265+/-0.011  $\chi^2/\text{NDF}$ :68.4/5

Out: 0.269+/-0.011  $\chi^2/\text{NDF}$ :146.9/6

All: 0.267+/-0.008  $\chi^2/\text{NDF}$ : 215.3/12

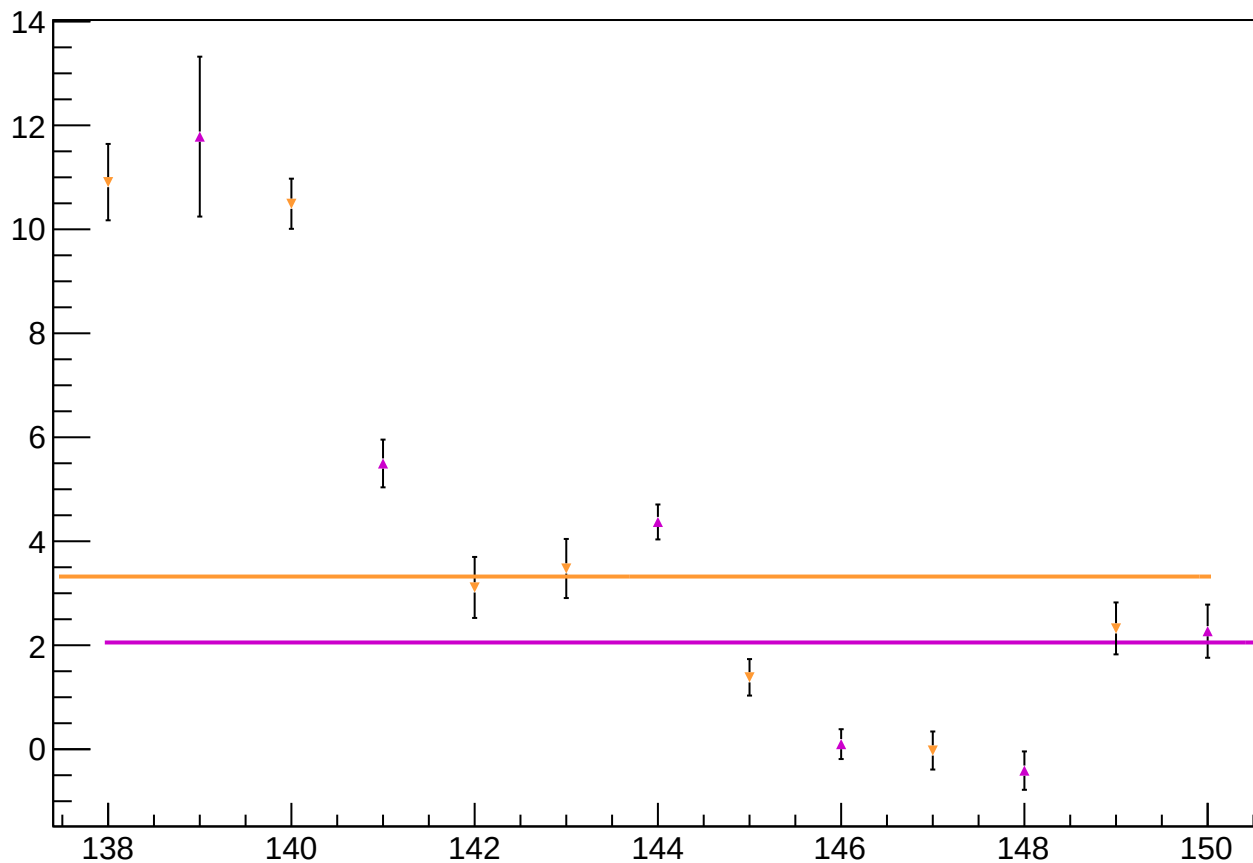
reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.479+/-0.253  $\chi^2/\text{NDF}$ :1569.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.432+/-0.249  $\chi^2/\text{NDF}$ :535.7/5

Left: -6.913+/-0.177  $\chi^2/\text{NDF}$ : 2307.6/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -4.432+/-0.249  $\chi^2/\text{NDF}$ :535.7/5  
 Out: -9.479+/-0.253  $\chi^2/\text{NDF}$ :1569.3/6  
 All: -6.913+/-0.177  $\chi^2/\text{NDF}$ : 2307.6/12

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

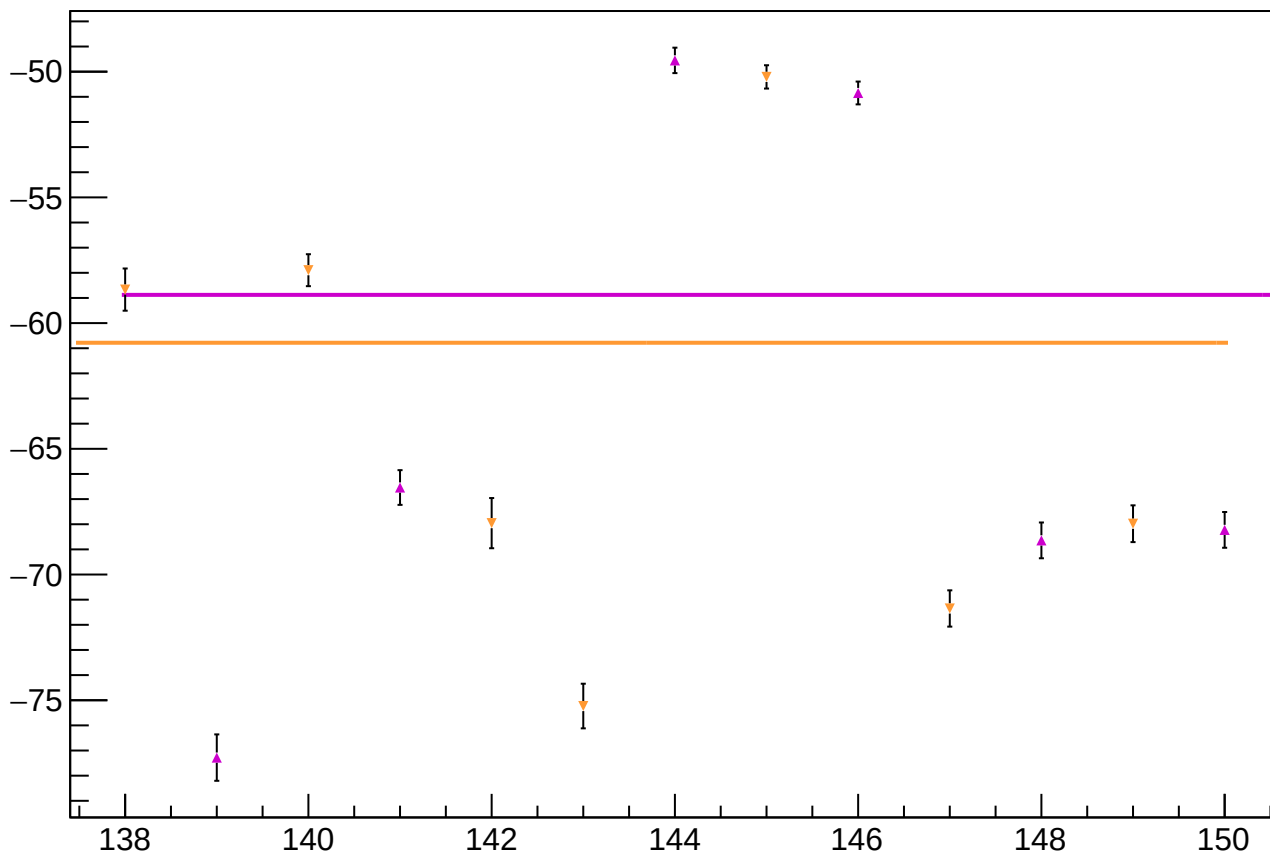


Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.321+/-0.177     $\chi^2/\text{NDF}$ :445.9/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.053+/-0.164     $\chi^2/\text{NDF}$ :235.1/5

Left: 2.636+/-0.120     $\chi^2/\text{NDF}$ : 708.5/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.053+/-0.164     $\chi^2/\text{NDF}$ :235.1/5  
 Out: 3.321+/-0.177     $\chi^2/\text{NDF}$ :445.9/6  
 All: 2.636+/-0.120     $\chi^2/\text{NDF}$ : 708.5/12



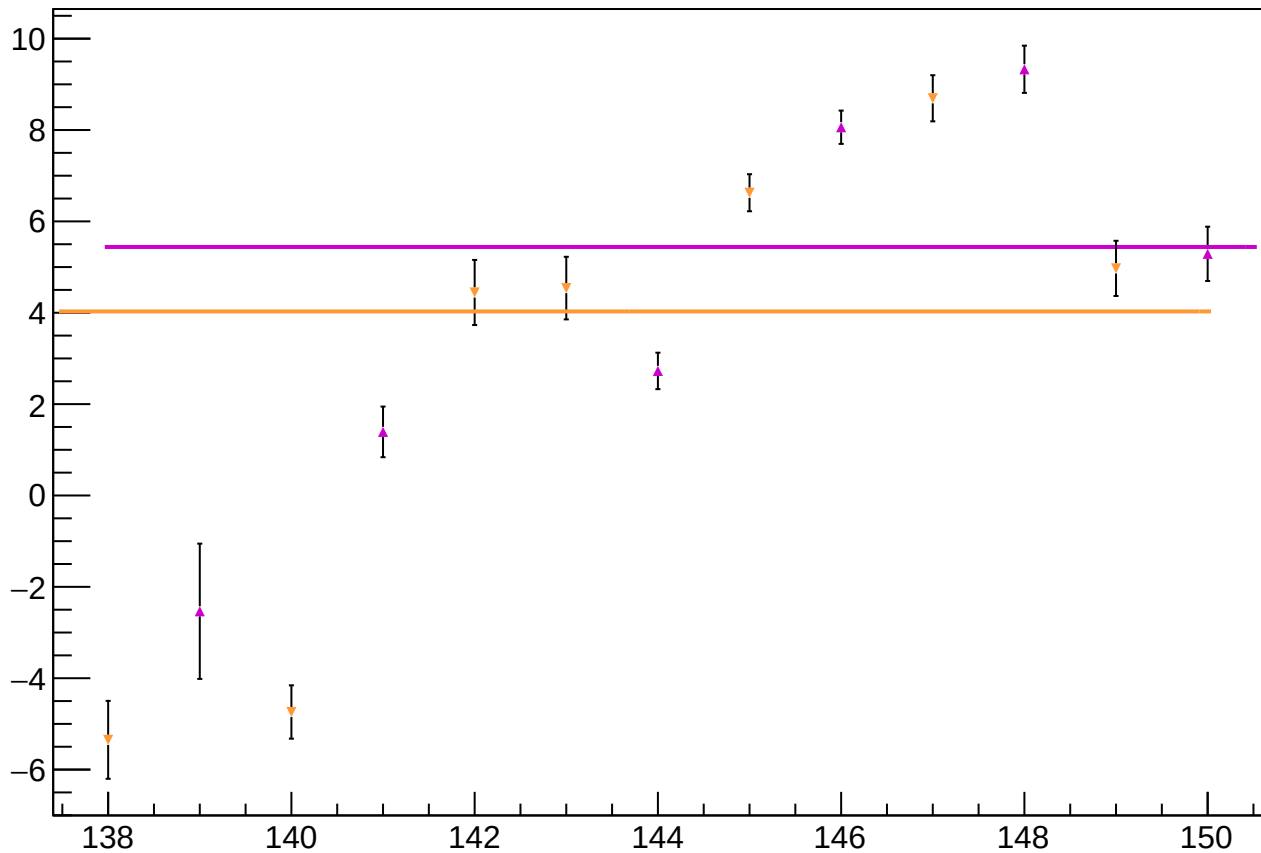
reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -60.781+/-0.262  $\chi^2/\text{NDF}$ :1174.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -58.877+/-0.250  $\chi^2/\text{NDF}$ :1534.9/5

Left: -59.786+/-0.181  $\chi^2/\text{NDF}$ : 2737.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -58.877+/-0.250  $\chi^2/\text{NDF}$ :1534.9/5  
 Out: -60.781+/-0.262  $\chi^2/\text{NDF}$ :1174.8/6  
 All: -59.786+/-0.181  $\chi^2/\text{NDF}$ : 2737.4/12

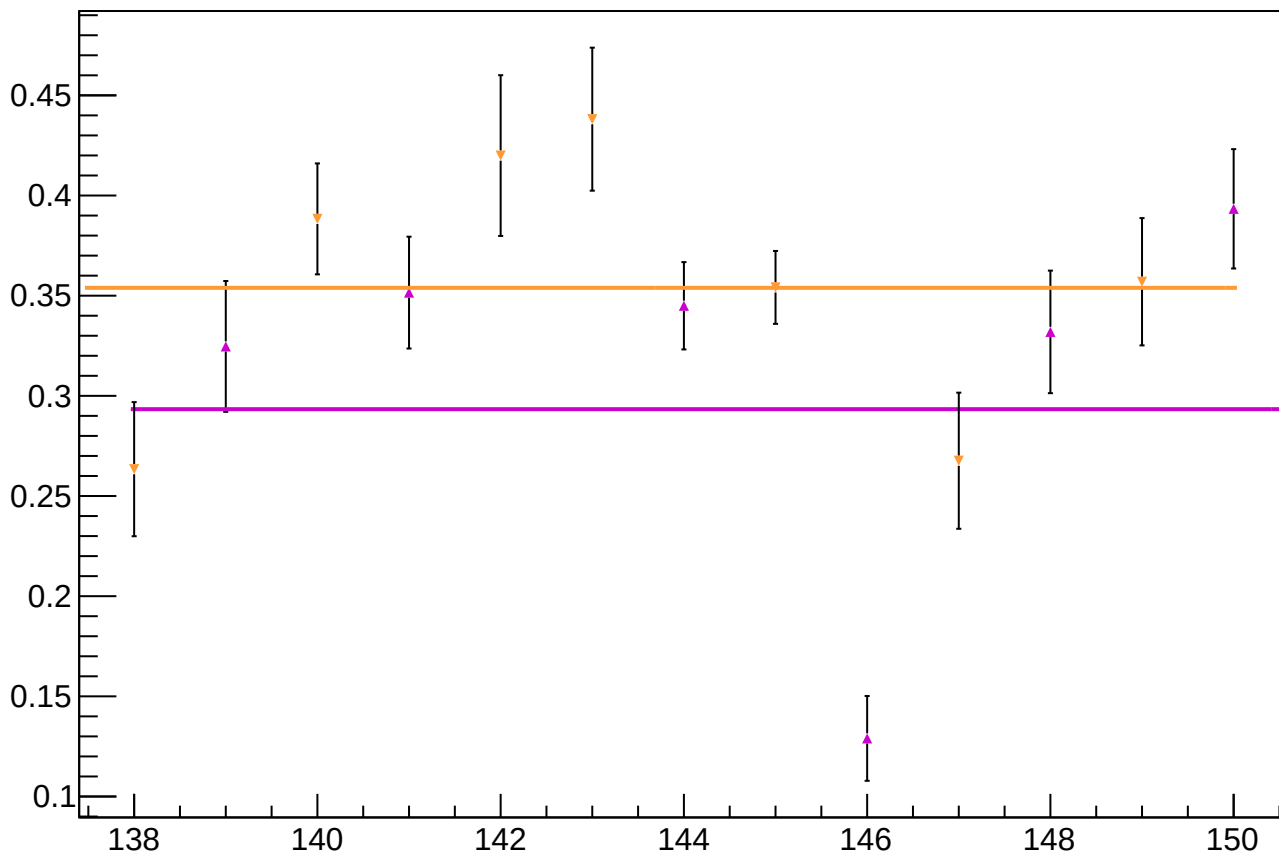
reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.029 $\pm$ 0.217  $\chi^2$ /NDF:476.0/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 5.440 $\pm$ 0.204  $\chi^2$ /NDF:237.0/5

Left: 4.781 $\pm$ 0.149  $\chi^2$ /NDF: 735.4/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 5.440 $\pm$ 0.204  $\chi^2$ /NDF:237.0/5  
 Out: 4.029 $\pm$ 0.217  $\chi^2$ /NDF:476.0/6  
 All: 4.781 $\pm$ 0.149  $\chi^2$ /NDF: 735.4/12

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.354 $\pm$ 0.011  $\chi^2$ /NDF:23.6/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.293 $\pm$ 0.011  $\chi^2$ /NDF:84.0/5

Left: 0.323 $\pm$ 0.008  $\chi^2$ /NDF: 123.4/12

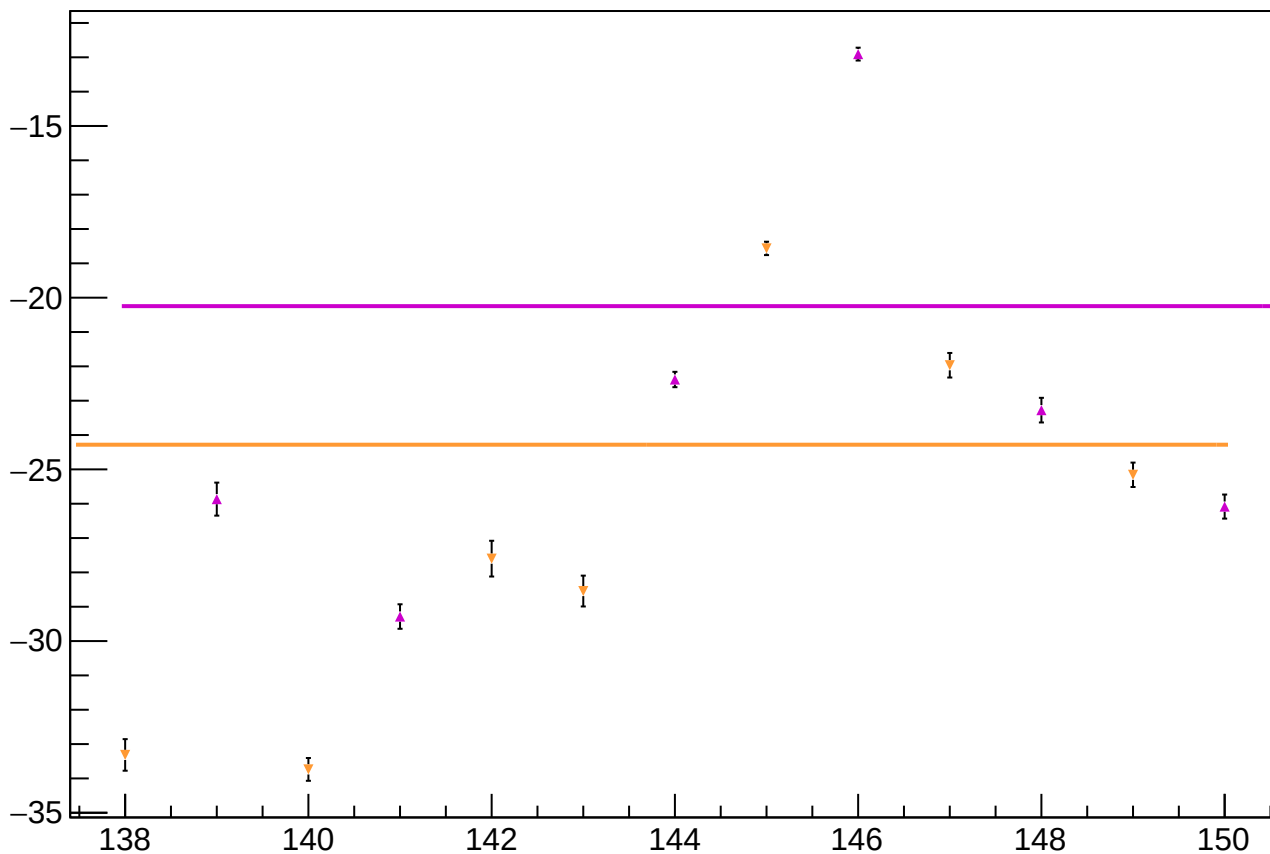
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.293 $\pm$ 0.011  $\chi^2$ /NDF:84.0/5

Out: 0.354 $\pm$ 0.011  $\chi^2$ /NDF:23.6/6

All: 0.323 $\pm$ 0.008  $\chi^2$ /NDF: 123.4/12

reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



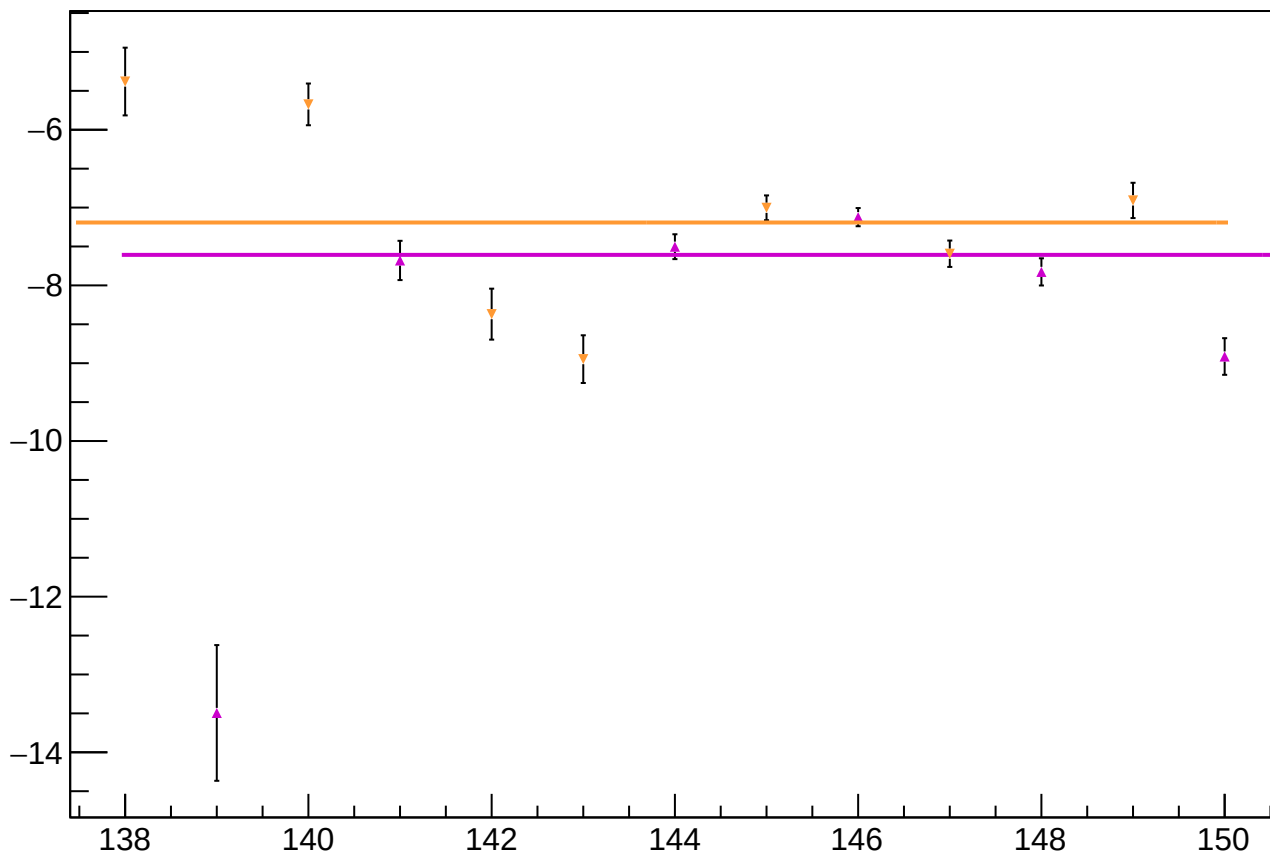
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -24.282+/-0.124  $\chi^2/\text{NDF}$ :2236.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -20.246+/-0.114  $\chi^2/\text{NDF}$ :2751.5/5

Left: -22.092+/-0.084  $\chi^2/\text{NDF}$ : 5558.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -20.246+/-0.114  $\chi^2/\text{NDF}$ :2751.5/5  
 Out: -24.282+/-0.124  $\chi^2/\text{NDF}$ :2236.7/6

All: -22.092+/-0.084  $\chi^2/\text{NDF}$ : 5558.4/12

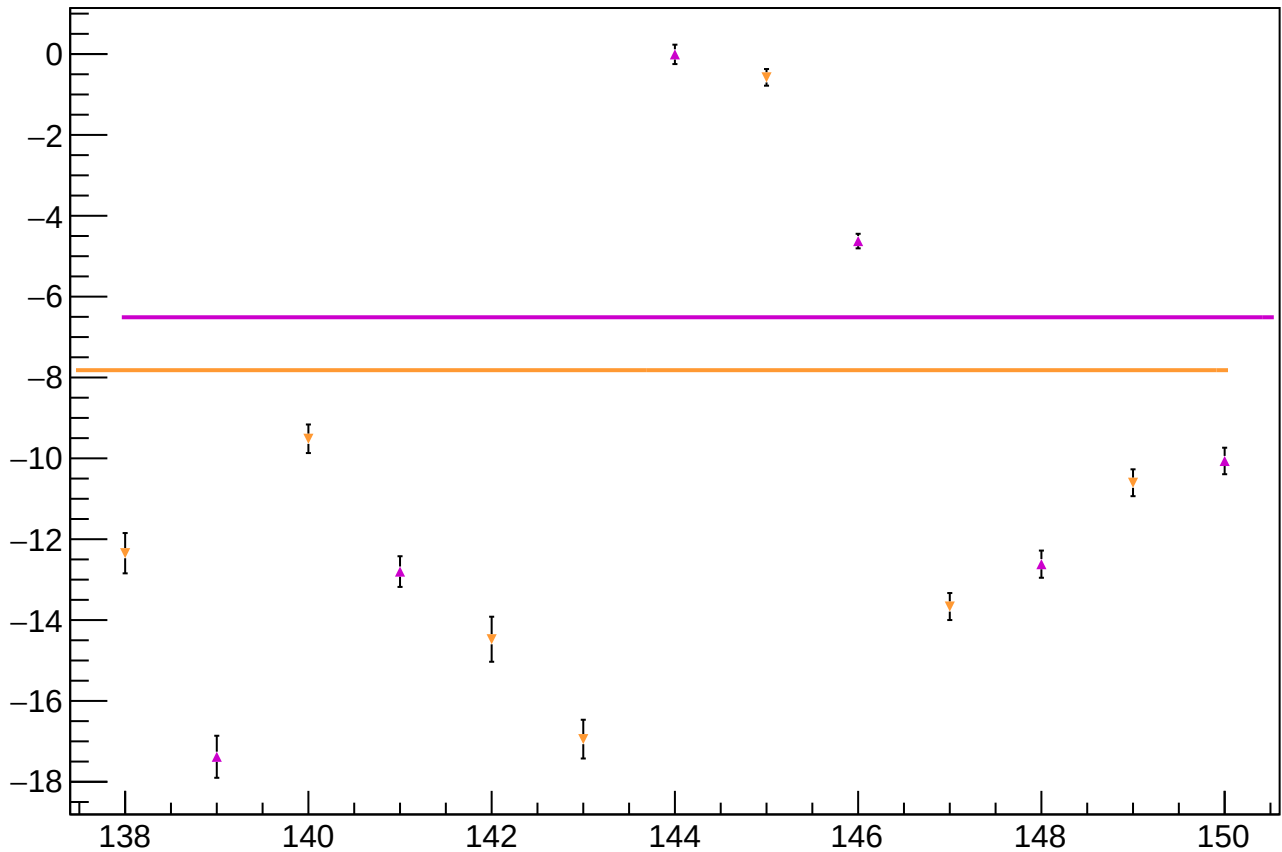
reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.192+/-0.087  $\chi^2/\text{NDF}$ :103.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -7.608+/-0.074  $\chi^2/\text{NDF}$ :95.6/5

Left: -7.431+/-0.057  $\chi^2/\text{NDF}$ : 212.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -7.608+/-0.074  $\chi^2/\text{NDF}$ :95.6/5  
 Out: -7.192+/-0.087  $\chi^2/\text{NDF}$ :103.7/6  
 All: -7.431+/-0.057  $\chi^2/\text{NDF}$ : 212.5/12

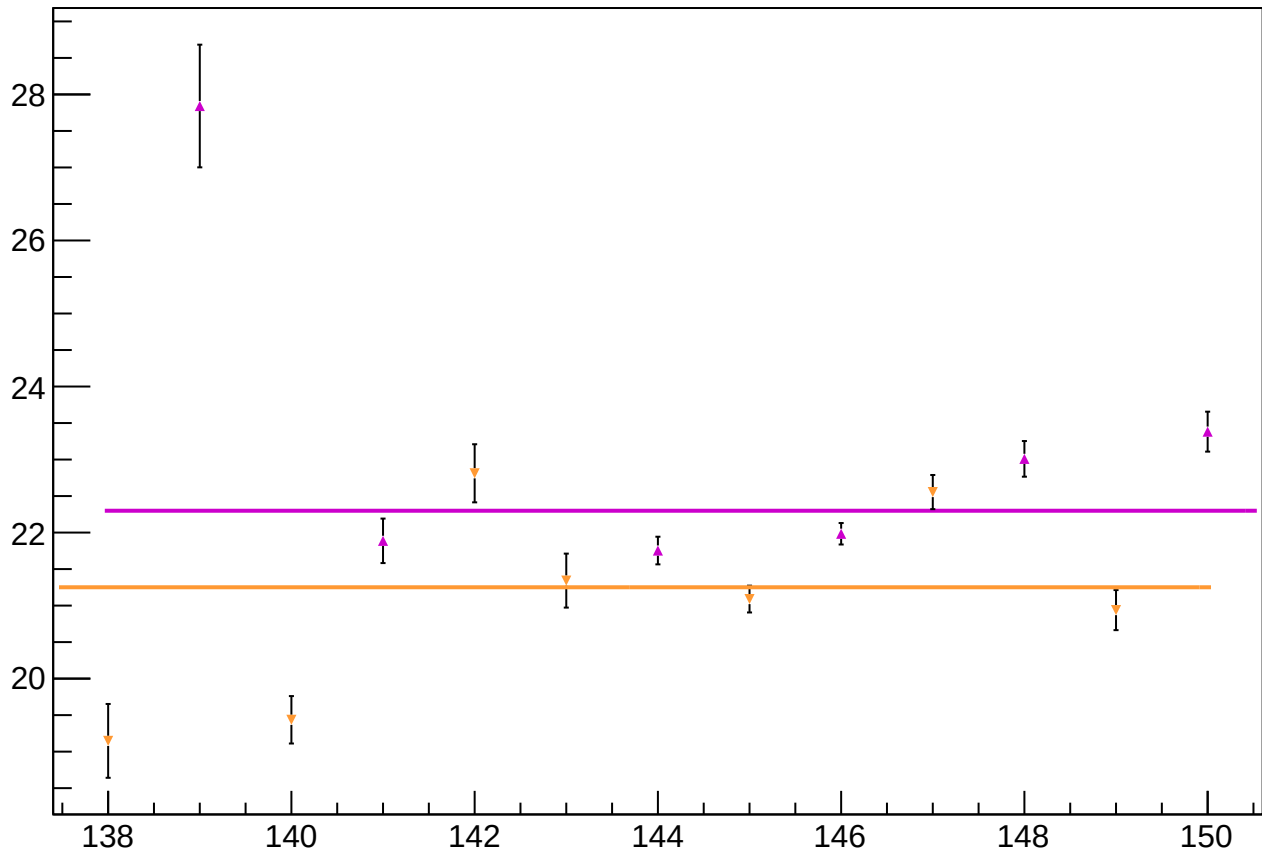
reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -7.819 $\pm$ 0.128  $\chi^2$ /NDF:2223.4/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -6.510 $\pm$ 0.114  $\chi^2$ /NDF:2003.1/5

Left: -7.090 $\pm$ 0.085  $\chi^2$ /NDF: 4284.9/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -6.510 $\pm$ 0.114  $\chi^2$ /NDF:2003.1/5  
 Out: -7.819 $\pm$ 0.128  $\chi^2$ /NDF:2223.4/6  
 All: -7.090 $\pm$ 0.085  $\chi^2$ /NDF: 4284.9/12

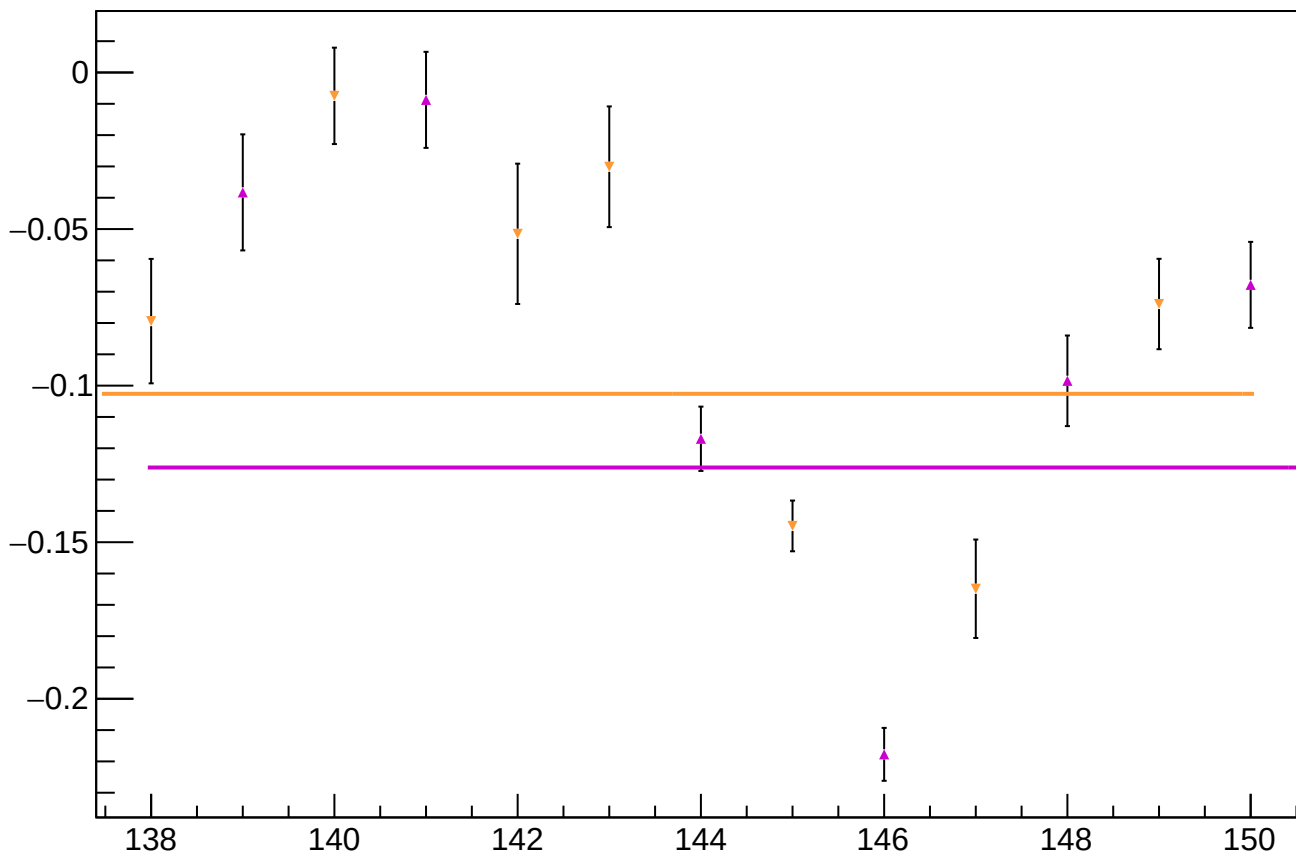
reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 21.251 $\pm$ 0.106  $\chi^2$ /NDF:97.2/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 22.299 $\pm$ 0.093  $\chi^2$ /NDF:82.4/5

Left: 21.847 $\pm$ 0.070  $\chi^2$ /NDF: 234.7/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 22.299 $\pm$ 0.093  $\chi^2$ /NDF:82.4/5  
 Out: 21.251 $\pm$ 0.106  $\chi^2$ /NDF:97.2/6  
 All: 21.847 $\pm$ 0.070  $\chi^2$ /NDF: 234.7/12

reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.103+/-0.005  $\chi^2/\text{NDF}$ :105.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.126+/-0.005  $\chi^2/\text{NDF}$ :221.2/5

Left: -0.115+/-0.004  $\chi^2/\text{NDF}$ : 337.4/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

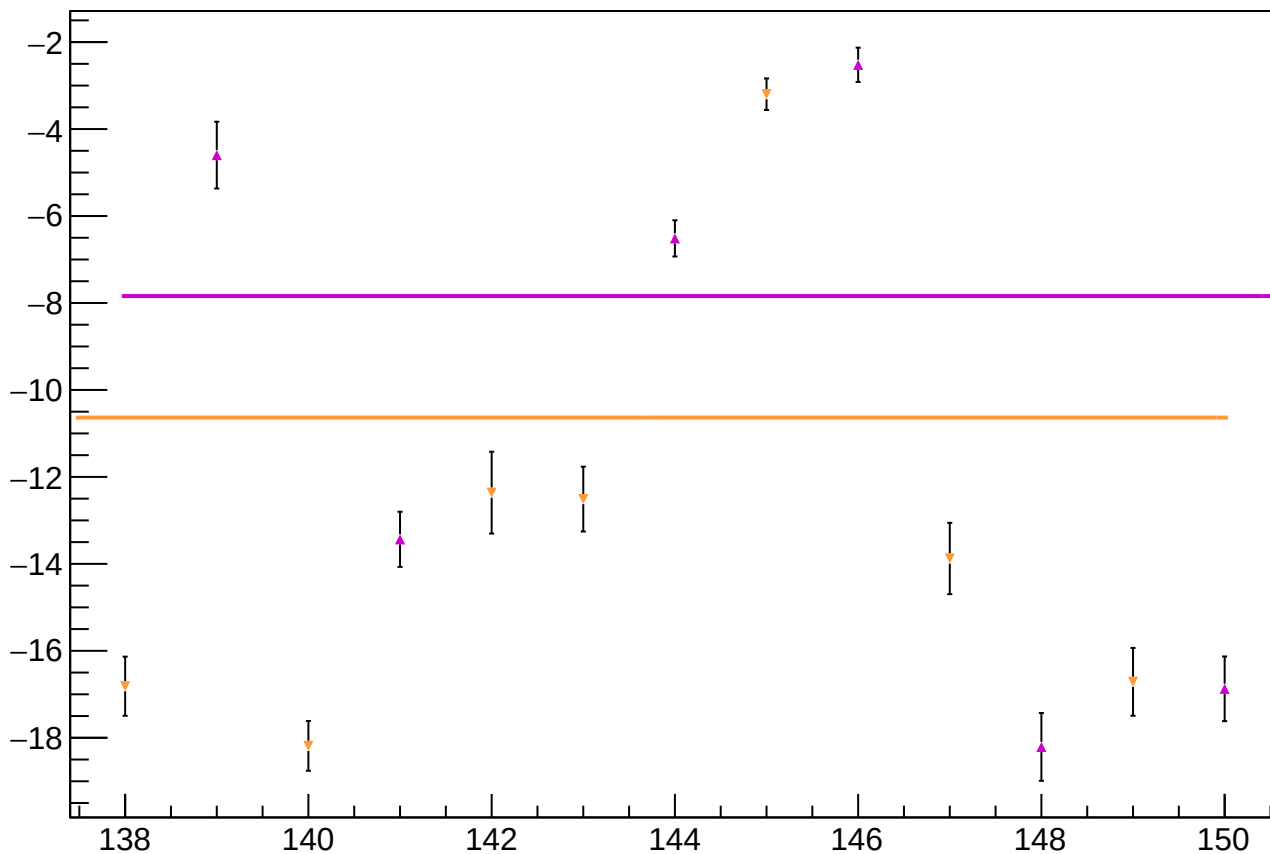
In: -0.126+/-0.005  $\chi^2/\text{NDF}$ :221.2/5

Out: -0.103+/-0.005  $\chi^2/\text{NDF}$ :105.7/6

All: -0.115+/-0.004  $\chi^2/\text{NDF}$ : 337.4/12



reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.636+/-0.230  $\chi^2/\text{NDF}$ : 763.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -7.841+/-0.225  $\chi^2/\text{NDF}$ : 612.2/5

Left: -9.204+/-0.161  $\chi^2/\text{NDF}$ : 1451.0/12

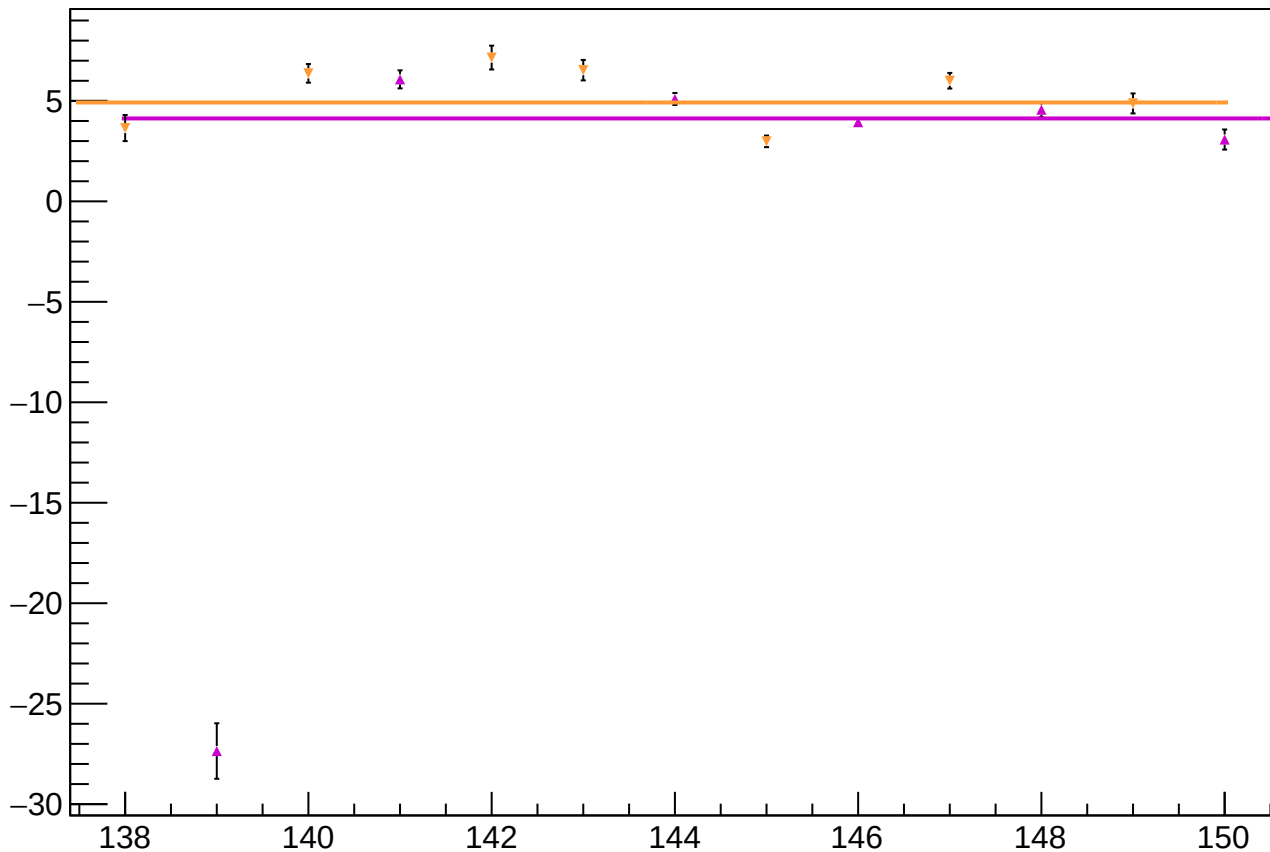
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -7.841+/-0.225  $\chi^2/\text{NDF}$ : 612.2/5

Out: -10.636+/-0.230  $\chi^2/\text{NDF}$ : 763.3/6

All: -9.204+/-0.161  $\chi^2/\text{NDF}$ : 1451.0/12

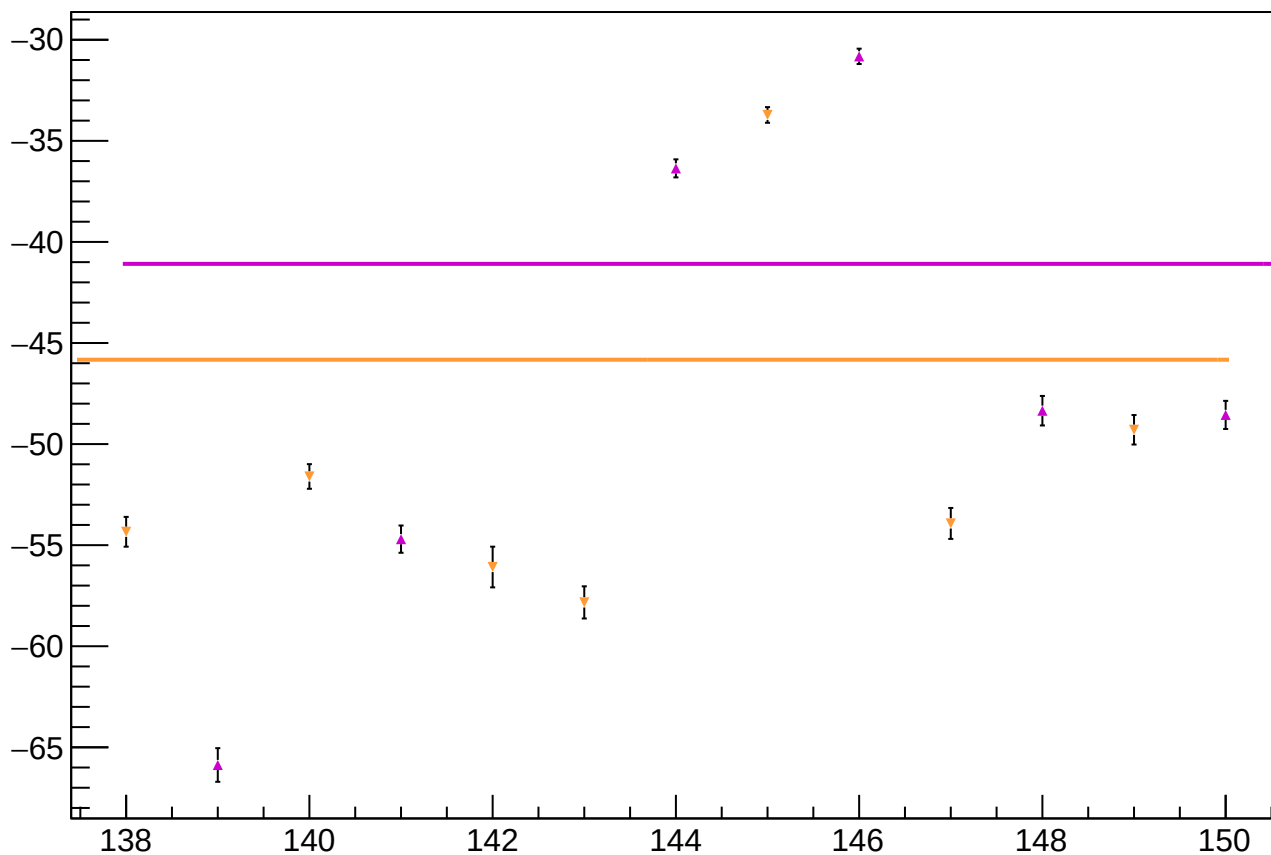
reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 4.921 $\pm$ 0.166  $\chi^2/\text{NDF}$ :90.5/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.127 $\pm$ 0.152  $\chi^2/\text{NDF}$ :554.9/5

Left: 4.488 $\pm$ 0.112  $\chi^2/\text{NDF}$ : 658.0/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.127 $\pm$ 0.152  $\chi^2/\text{NDF}$ :554.9/5  
 Out: 4.921 $\pm$ 0.166  $\chi^2/\text{NDF}$ :90.5/6  
 All: 4.488 $\pm$ 0.112  $\chi^2/\text{NDF}$ : 658.0/12

reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



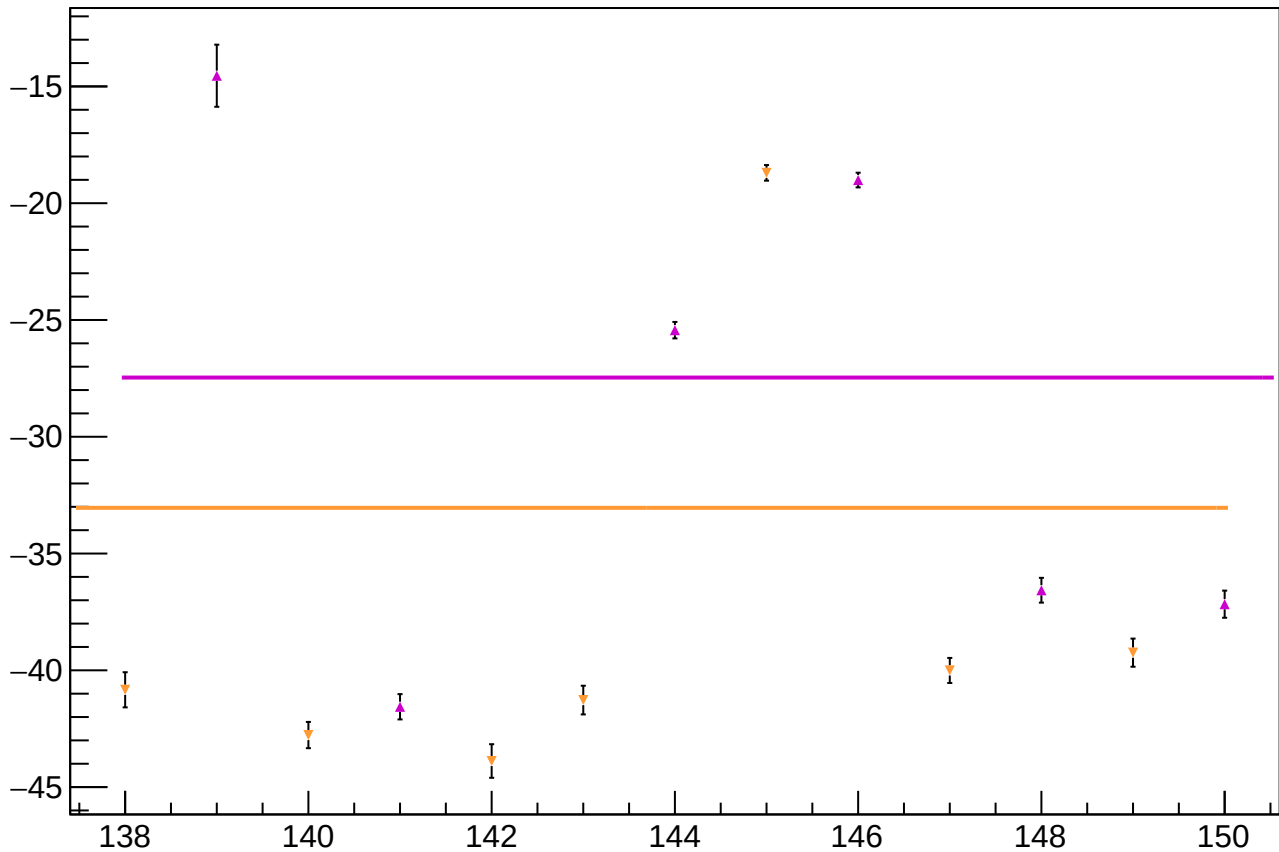
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -45.827+/-0.240  $\chi^2/\text{NDF}$ :1665.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -41.085+/-0.226  $\chi^2/\text{NDF}$ :2352.5/5

Left: -43.315+/-0.165  $\chi^2/\text{NDF}$ : 4224.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -41.085+/-0.226  $\chi^2/\text{NDF}$ :2352.5/5  
 Out: -45.827+/-0.240  $\chi^2/\text{NDF}$ :1665.2/6

All: -43.315+/-0.165  $\chi^2/\text{NDF}$ : 4224.4/12

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.042+/-0.201  $\chi^2/\text{NDF}$ :2932.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -27.465+/-0.187  $\chi^2/\text{NDF}$ :2099.5/5

Left: -30.049+/-0.137  $\chi^2/\text{NDF}$ : 5444.5/12

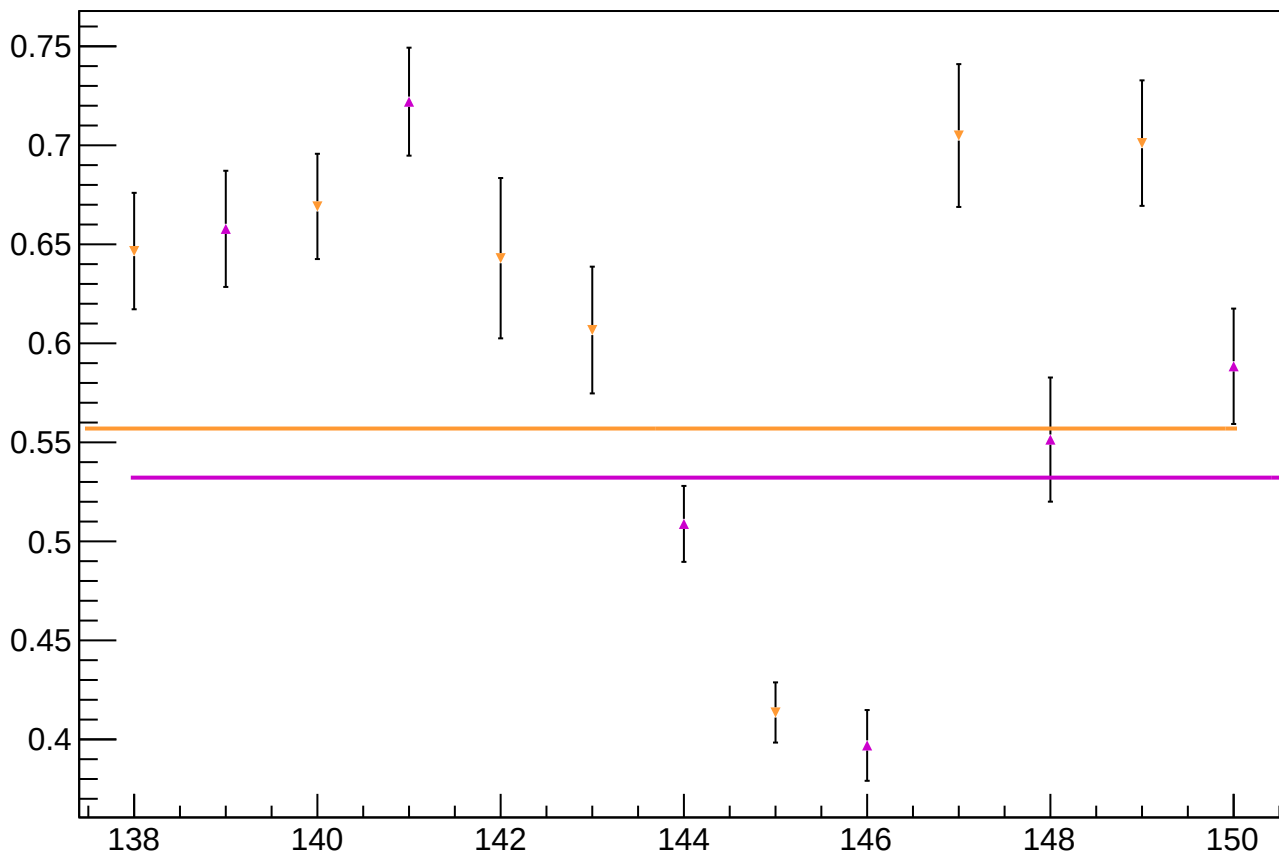
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -27.465+/-0.187  $\chi^2/\text{NDF}$ :2099.5/5

Out: -33.042+/-0.201  $\chi^2/\text{NDF}$ :2932.4/6

All: -30.049+/-0.137  $\chi^2/\text{NDF}$ : 5444.5/12

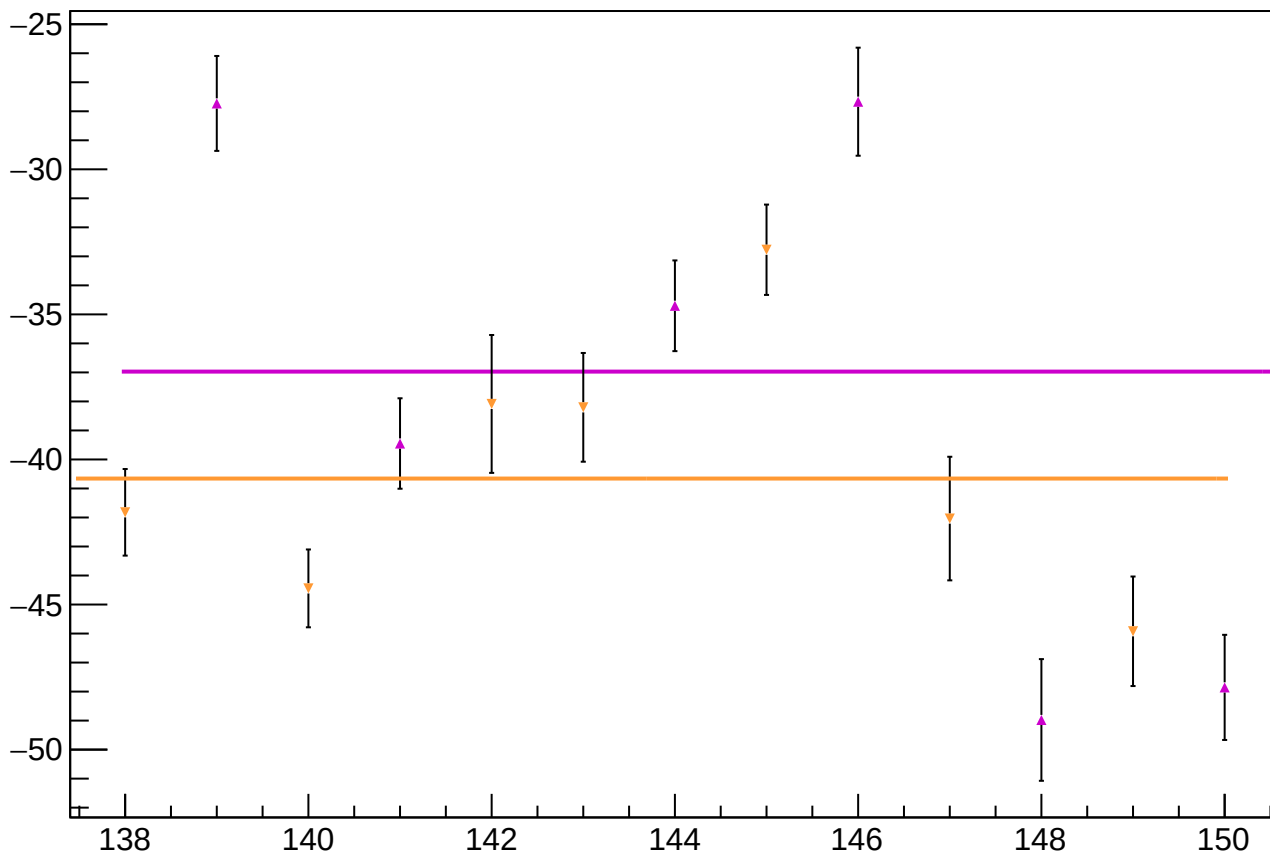
reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.557+/-0.010  $\chi^2/\text{NDF}$ :160.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.532+/-0.010  $\chi^2/\text{NDF}$ :129.7/5

Left: 0.544+/-0.007  $\chi^2/\text{NDF}$ : 293.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.532+/-0.010  $\chi^2/\text{NDF}$ :129.7/5  
 Out: 0.557+/-0.010  $\chi^2/\text{NDF}$ :160.6/6  
 All: 0.544+/-0.007  $\chi^2/\text{NDF}$ : 293.5/12

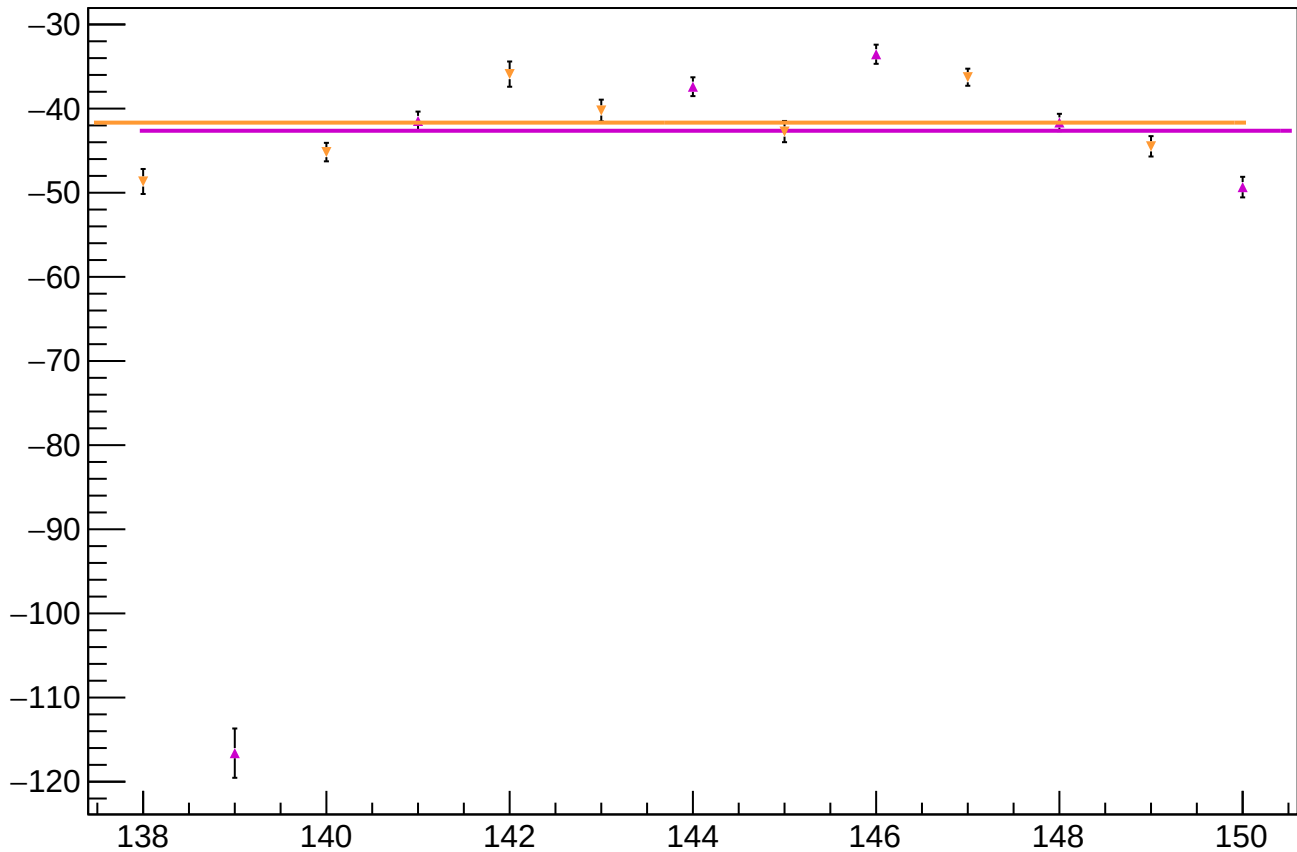
reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -40.658+/-0.648  $\chi^2/\text{NDF}$ : 45.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -36.972+/-0.704  $\chi^2/\text{NDF}$ : 130.4/5

Left: -38.968+/-0.477  $\chi^2/\text{NDF}$ : 190.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -36.972+/-0.704  $\chi^2/\text{NDF}$ : 130.4/5  
 Out: -40.658+/-0.648  $\chi^2/\text{NDF}$ : 45.3/6  
 All: -38.968+/-0.477  $\chi^2/\text{NDF}$ : 190.5/12

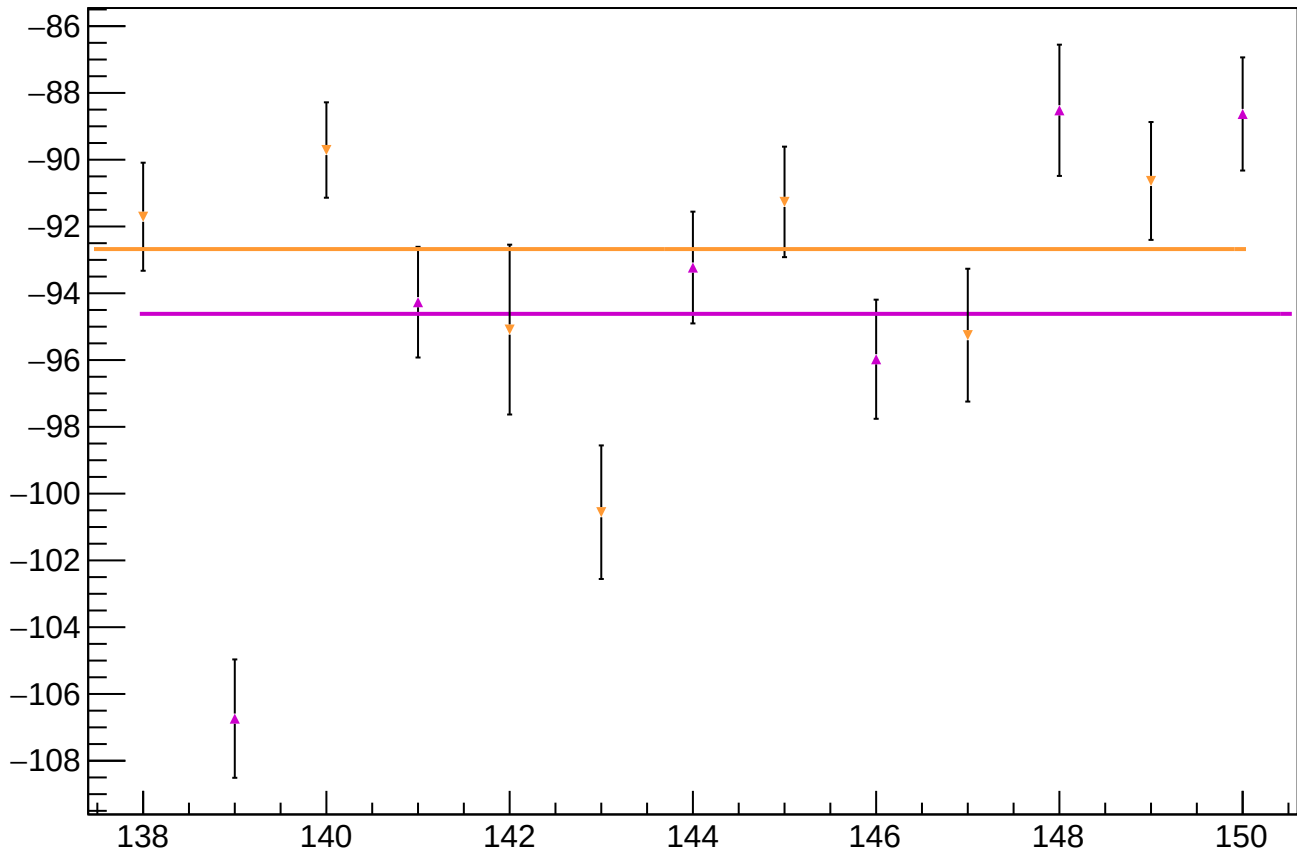
reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -41.667+/-0.466  $\chi^2/\text{NDF}$ :82.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -42.634+/-0.493  $\chi^2/\text{NDF}$ :755.1/5

Left: -42.124+/-0.339  $\chi^2/\text{NDF}$ : 839.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -42.634+/-0.493  $\chi^2/\text{NDF}$ :755.1/5  
 Out: -41.667+/-0.466  $\chi^2/\text{NDF}$ :82.7/6  
 All: -42.124+/-0.339  $\chi^2/\text{NDF}$ : 839.8/12

reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -92.676+/-0.672  $\chi^2/\text{NDF}$ :24.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -94.616+/-0.714  $\chi^2/\text{NDF}$ :70.2/5

Left: -93.587+/-0.489  $\chi^2/\text{NDF}$ : 98.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

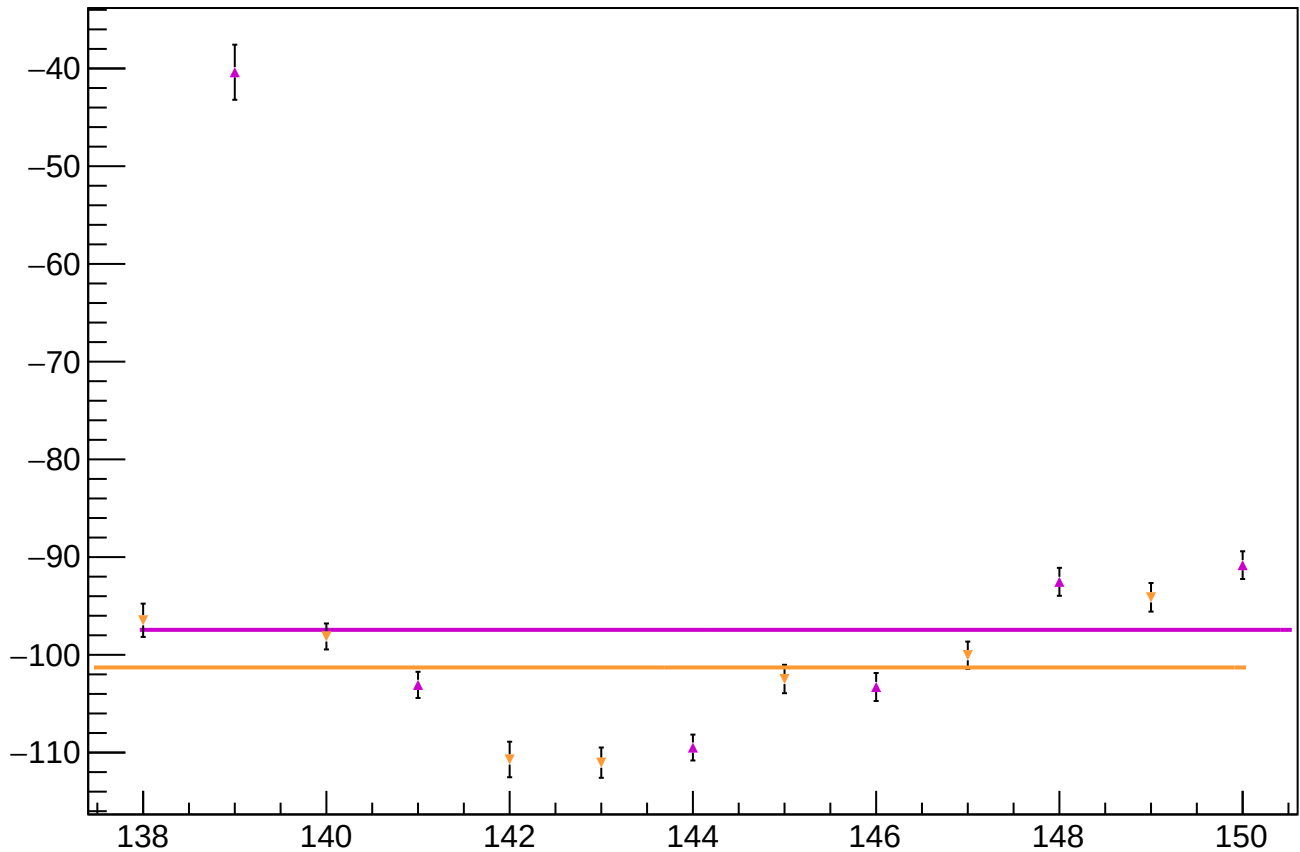
In: -94.616+/-0.714  $\chi^2/\text{NDF}$ :70.2/5

Out: -92.676+/-0.672  $\chi^2/\text{NDF}$ :24.8/6

All: -93.587+/-0.489  $\chi^2/\text{NDF}$ : 98.9/12



reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -101.293+/-0.569  $\chi^2/\text{NDF}$ :105.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -97.443+/-0.605  $\chi^2/\text{NDF}$ :560.1/5

Left: -99.486+/-0.415  $\chi^2/\text{NDF}$ : 687.3/12

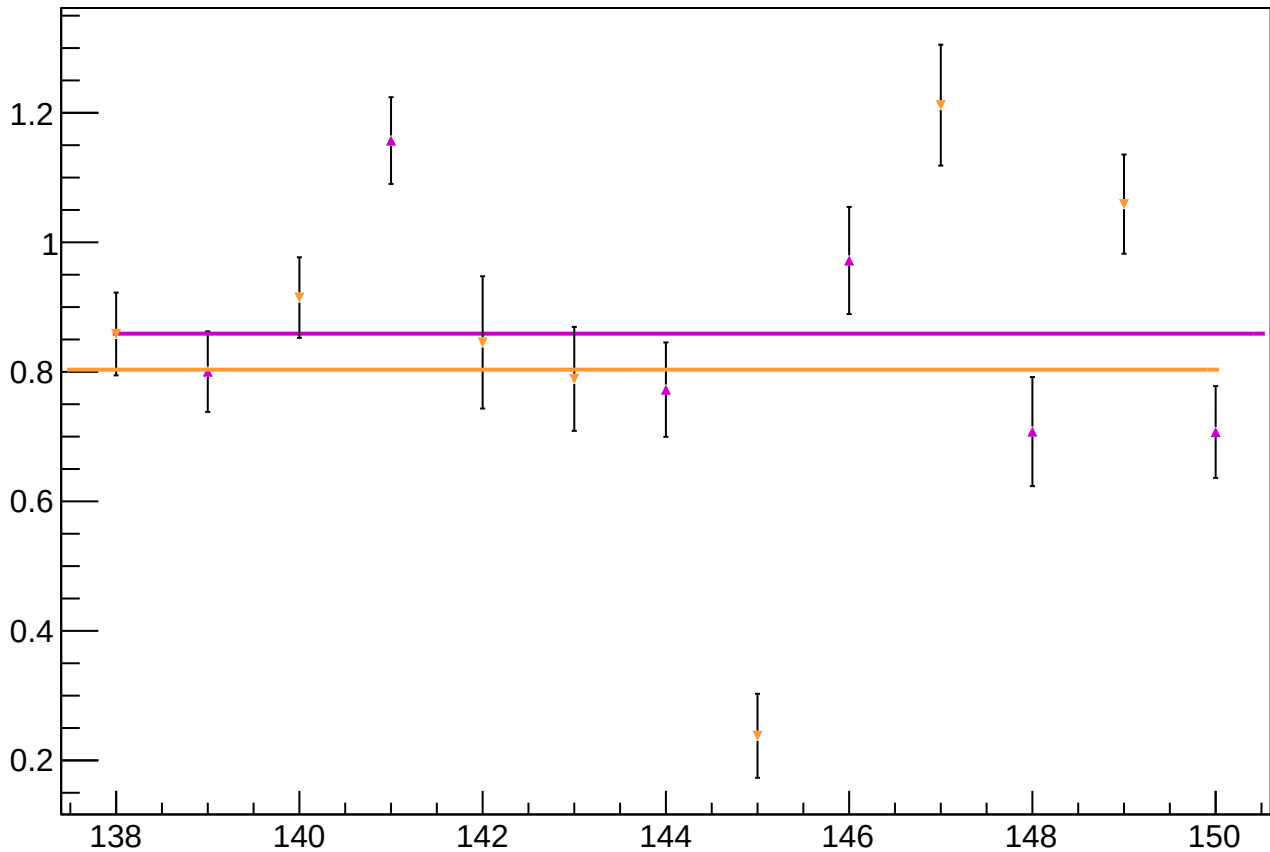
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -97.443+/-0.605  $\chi^2/\text{NDF}$ :560.1/5

Out: -101.293+/-0.569  $\chi^2/\text{NDF}$ :105.7/6

All: -99.486+/-0.415  $\chi^2/\text{NDF}$ : 687.3/12

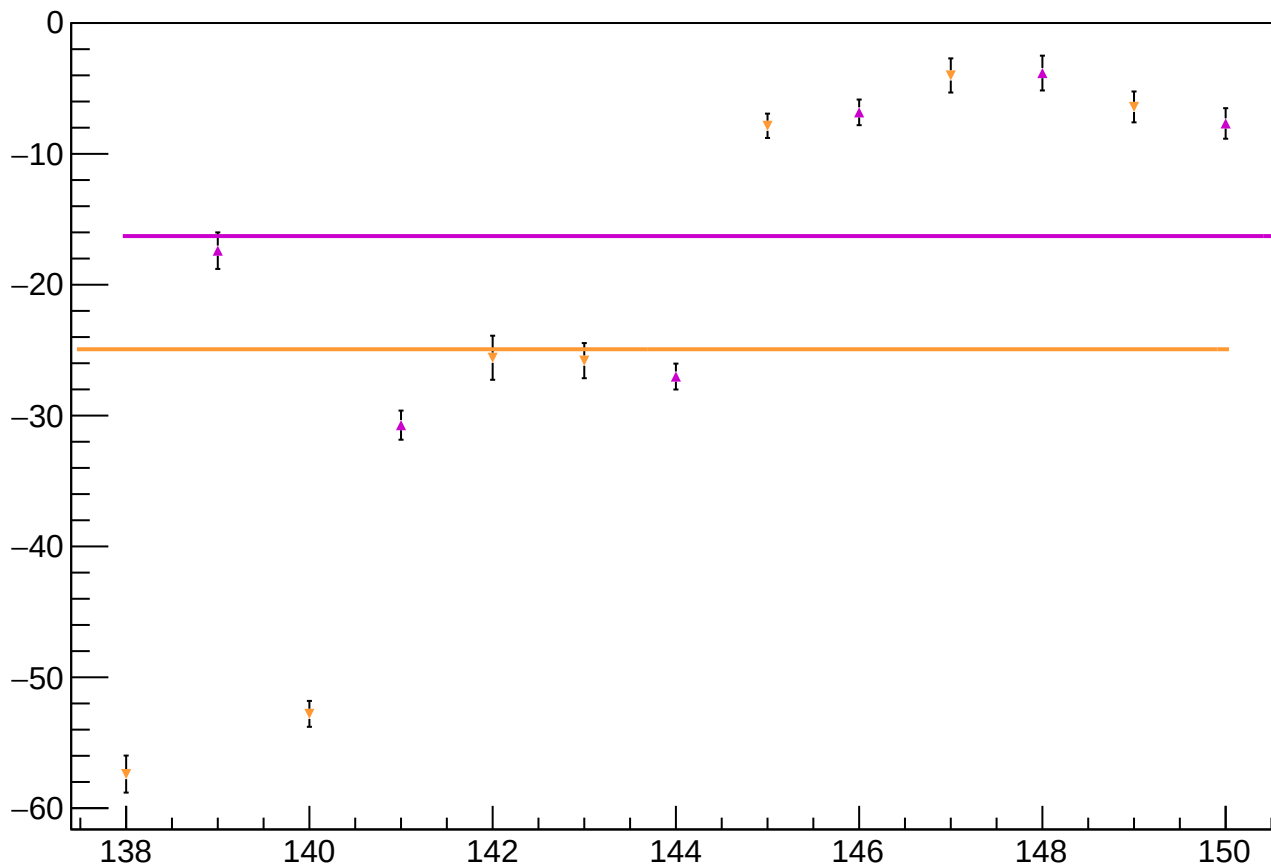
reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.803+/-0.028  $\chi^2/\text{NDF}$ :110.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.859+/-0.029  $\chi^2/\text{NDF}$ :31.8/5

Left: 0.830+/-0.020  $\chi^2/\text{NDF}$ : 144.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.859+/-0.029  $\chi^2/\text{NDF}$ :31.8/5  
 Out: 0.803+/-0.028  $\chi^2/\text{NDF}$ :110.5/6  
 All: 0.830+/-0.020  $\chi^2/\text{NDF}$ : 144.1/12

reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -24.931+/-0.452  $\chi^2/\text{NDF}$ :2160.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -16.282+/-0.462  $\chi^2/\text{NDF}$ :522.3/5

Left: -20.699+/-0.323  $\chi^2/\text{NDF}$ : 2861.3/12

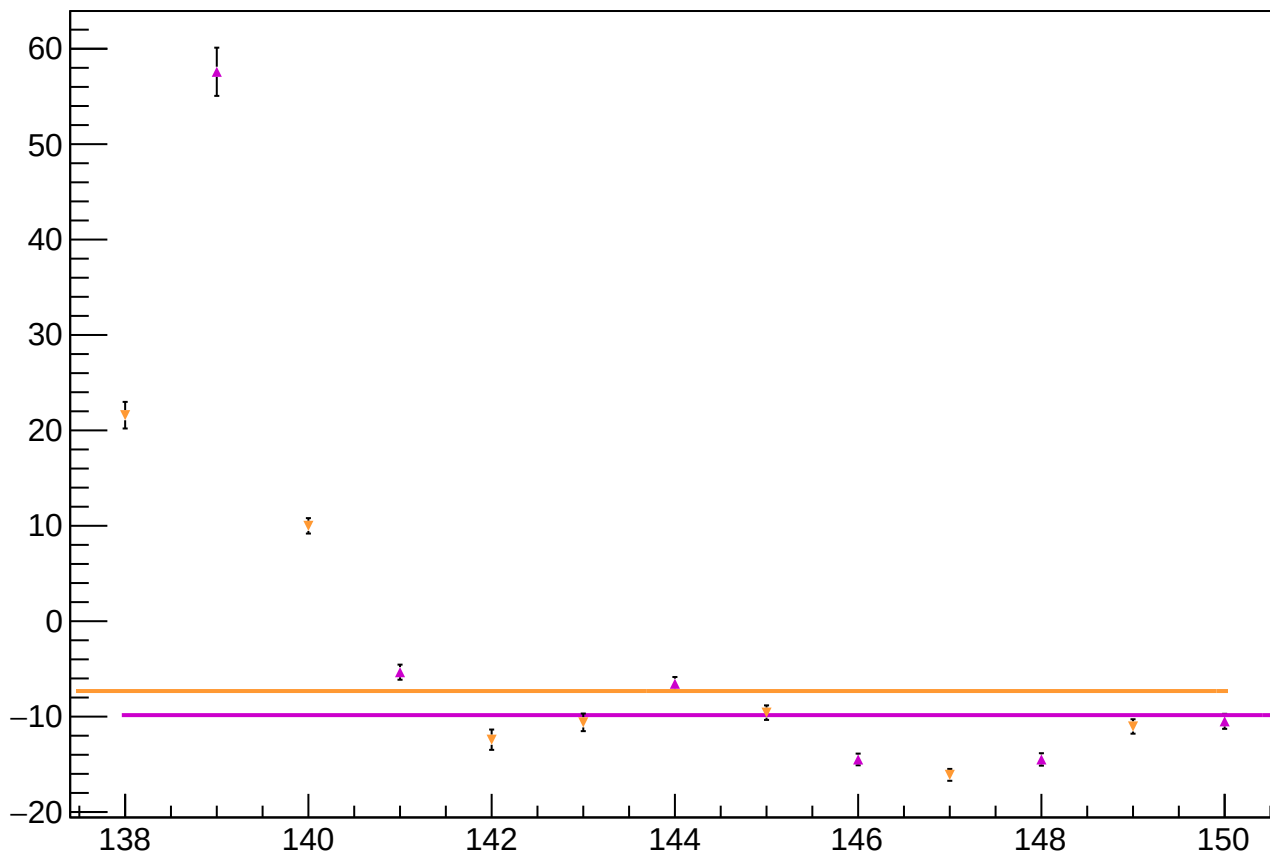
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -16.282+/-0.462  $\chi^2/\text{NDF}$ :522.3/5

Out: -24.931+/-0.452  $\chi^2/\text{NDF}$ :2160.0/6

All: -20.699+/-0.323  $\chi^2/\text{NDF}$ : 2861.3/12

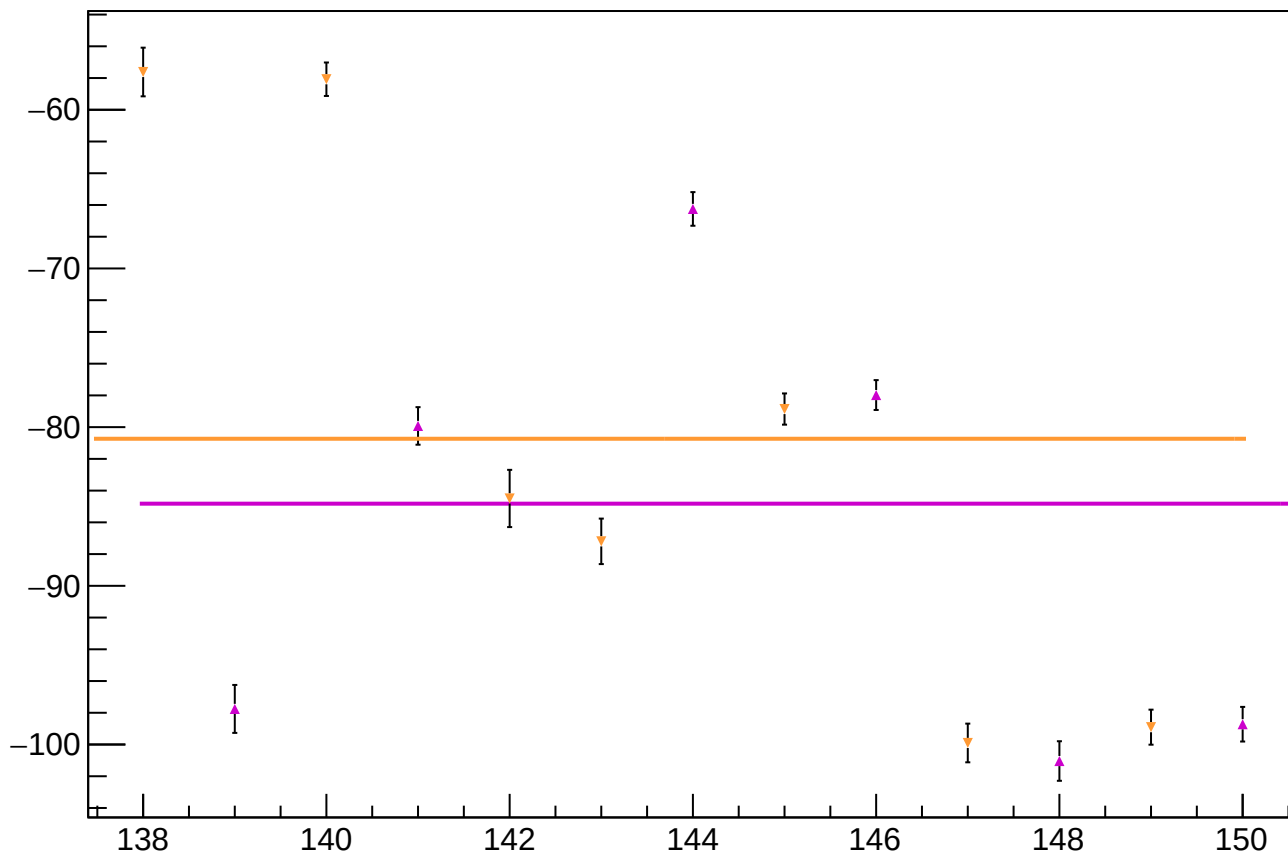
reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.319+/-0.314  $\chi^2/\text{NDF}$ :1156.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -9.844+/-0.310  $\chi^2/\text{NDF}$ :875.0/5

Left: -8.596+/-0.221  $\chi^2/\text{NDF}$ : 2064.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -9.844+/-0.310  $\chi^2/\text{NDF}$ :875.0/5  
 Out: -7.319+/-0.314  $\chi^2/\text{NDF}$ :1156.7/6  
 All: -8.596+/-0.221  $\chi^2/\text{NDF}$ : 2064.4/12

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



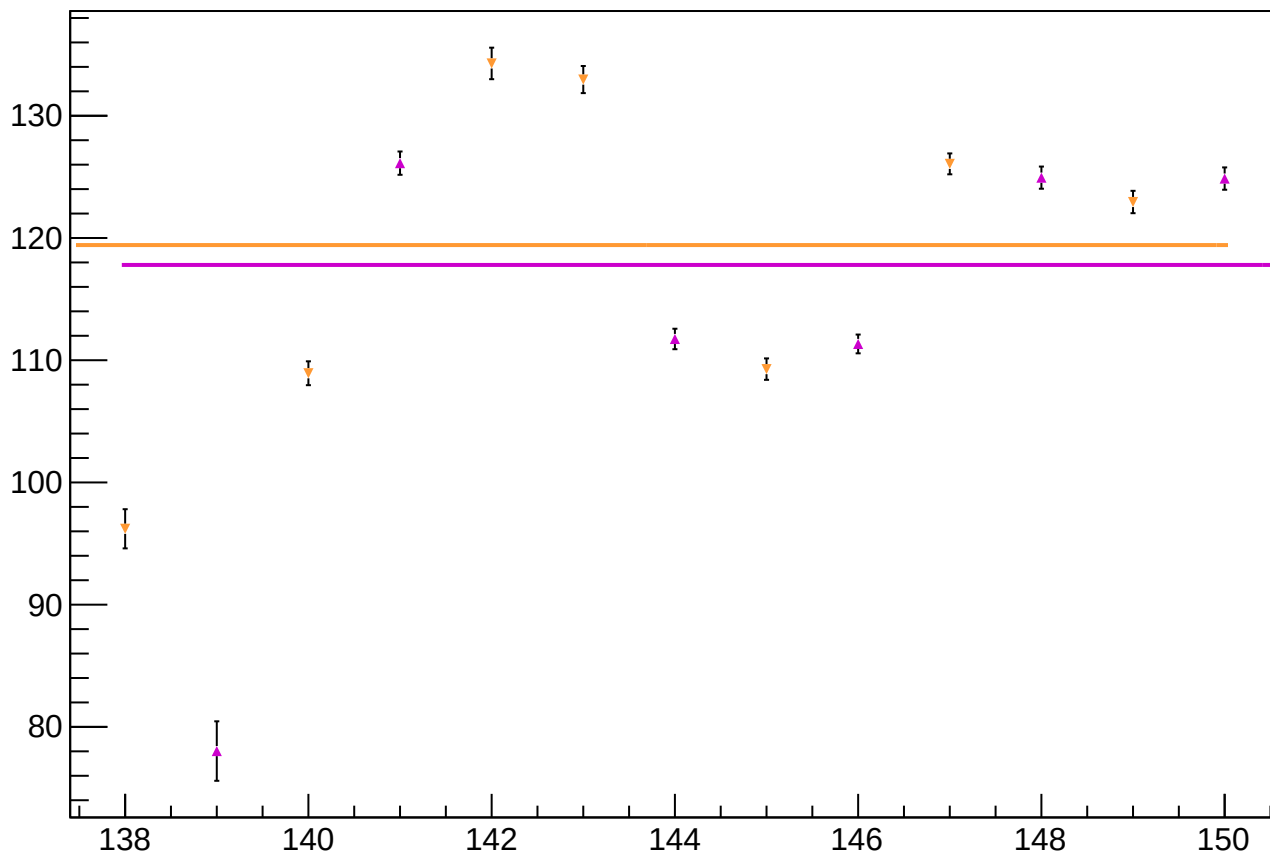
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-80.732 \pm 0.464$   $\chi^2/\text{NDF}: 1235.7/6$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-84.823 \pm 0.463$   $\chi^2/\text{NDF}: 782.0/5$

Left:  $-82.779 \pm 0.328$   $\chi^2/\text{NDF}: 2056.6/12$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-84.823 \pm 0.463$   $\chi^2/\text{NDF}: 782.0/5$   
 Out:  $-80.732 \pm 0.464$   $\chi^2/\text{NDF}: 1235.7/6$

All:  $-82.779 \pm 0.328$   $\chi^2/\text{NDF}: 2056.6/12$

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 119.422+/-0.386  $\chi^2/\text{NDF}$ :816.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 117.795+/-0.383  $\chi^2/\text{NDF}$ :588.5/5

Left: 118.603+/-0.272  $\chi^2/\text{NDF}$ : 1413.9/12

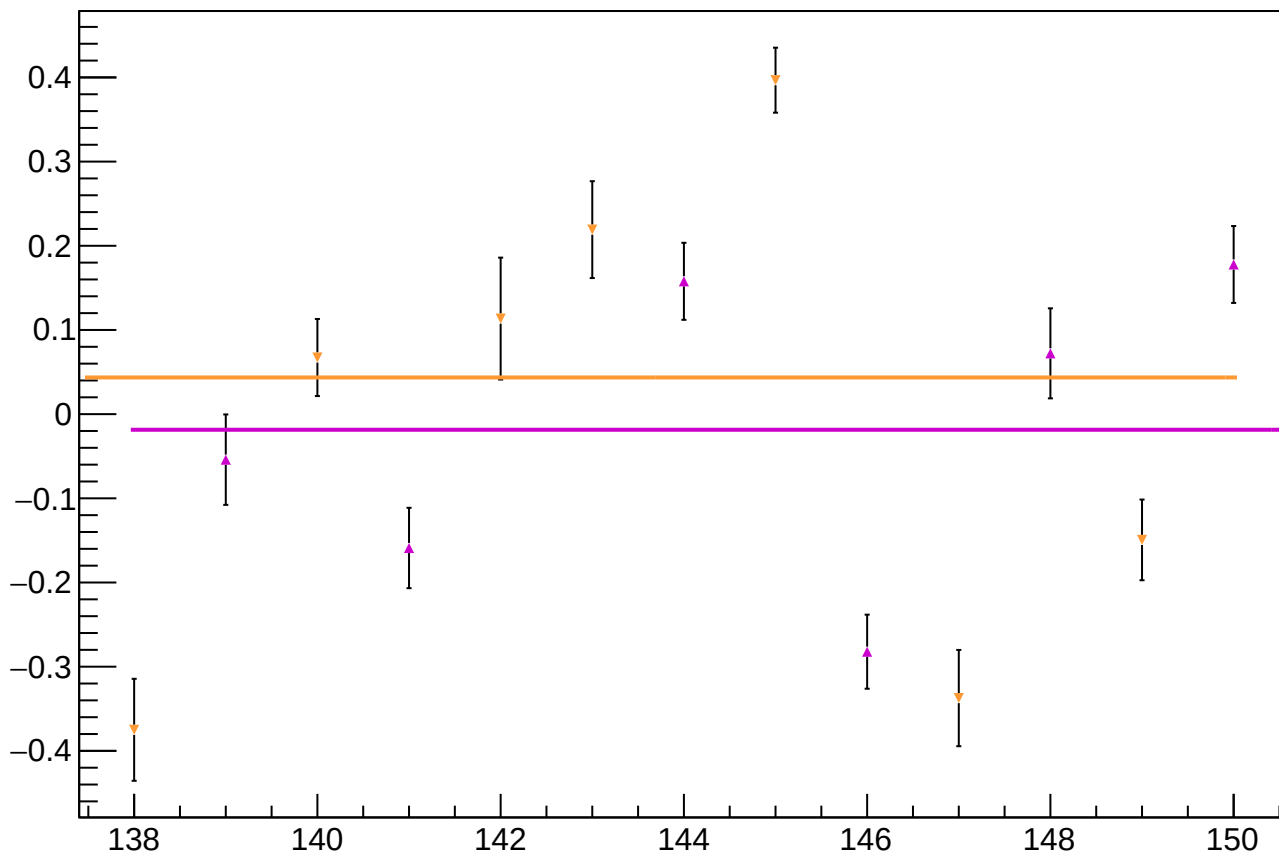
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 117.795+/-0.383  $\chi^2/\text{NDF}$ :588.5/5

Out: 119.422+/-0.386  $\chi^2/\text{NDF}$ :816.4/6

All: 118.603+/-0.272  $\chi^2/\text{NDF}$ : 1413.9/12

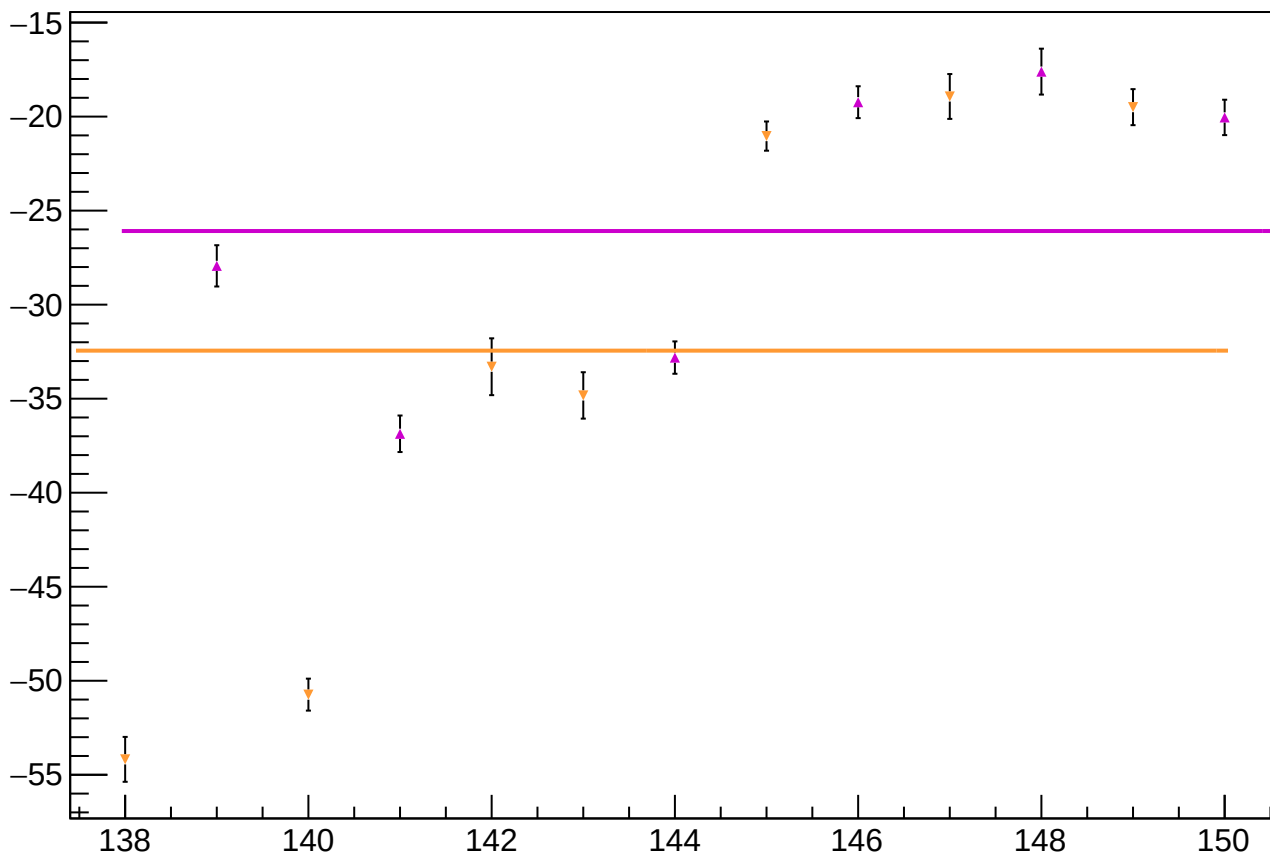
reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.044 $\pm$ 0.019  $\chi^2$ /NDF:202.5/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.019 $\pm$ 0.020  $\chi^2$ /NDF:81.2/5

Left: 0.013 $\pm$ 0.014  $\chi^2$ /NDF: 288.8/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.019 $\pm$ 0.020  $\chi^2$ /NDF:81.2/5  
 Out: 0.044 $\pm$ 0.019  $\chi^2$ /NDF:202.5/6  
 All: 0.013 $\pm$ 0.014  $\chi^2$ /NDF: 288.8/12

reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -32.445+/-0.388  $\chi^2/\text{NDF}$ :1325.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -26.085+/-0.394  $\chi^2/\text{NDF}$ :342.2/5

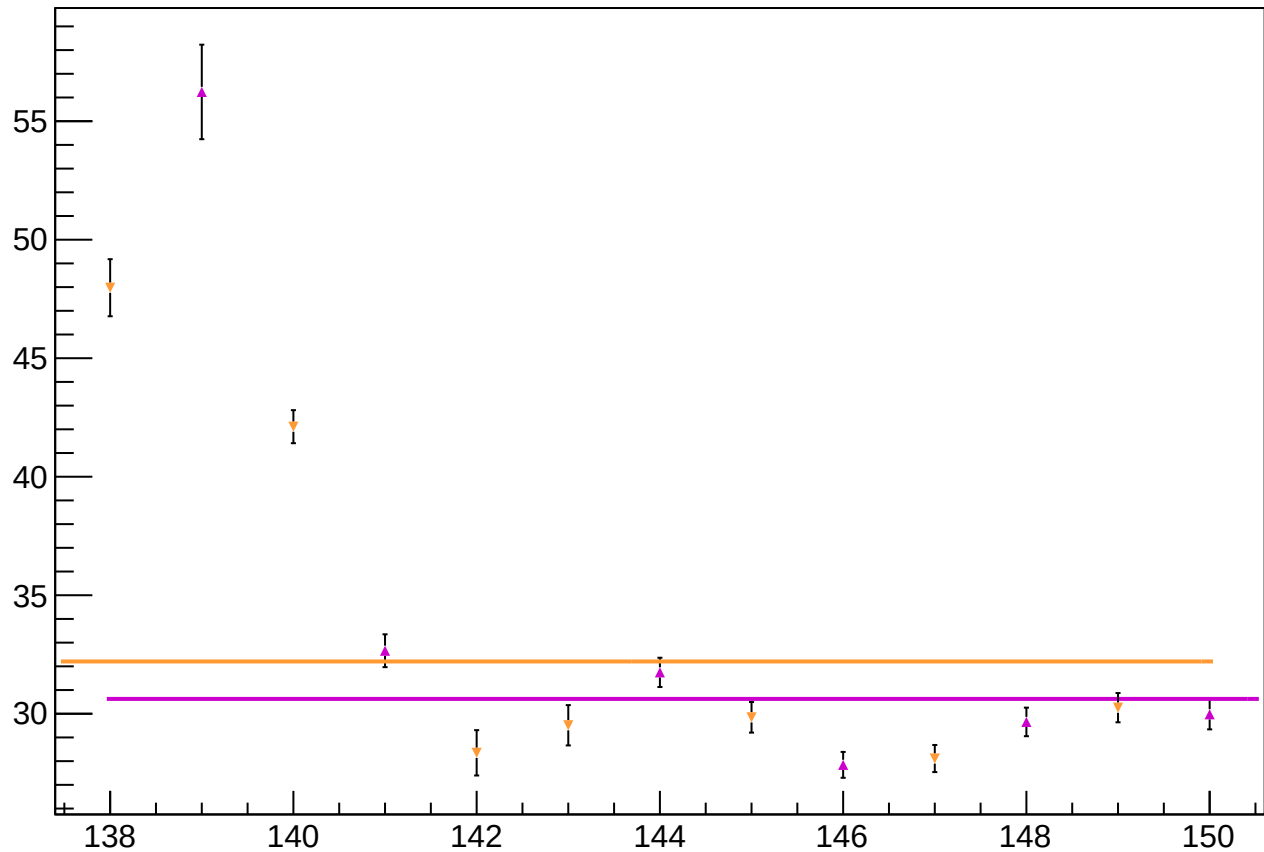
Left: -29.313+/-0.277  $\chi^2/\text{NDF}$ : 1800.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -26.085+/-0.394  $\chi^2/\text{NDF}$ :342.2/5  
 Out: -32.445+/-0.388  $\chi^2/\text{NDF}$ :1325.7/6

All: -29.313+/-0.277  $\chi^2/\text{NDF}$ : 1800.0/12



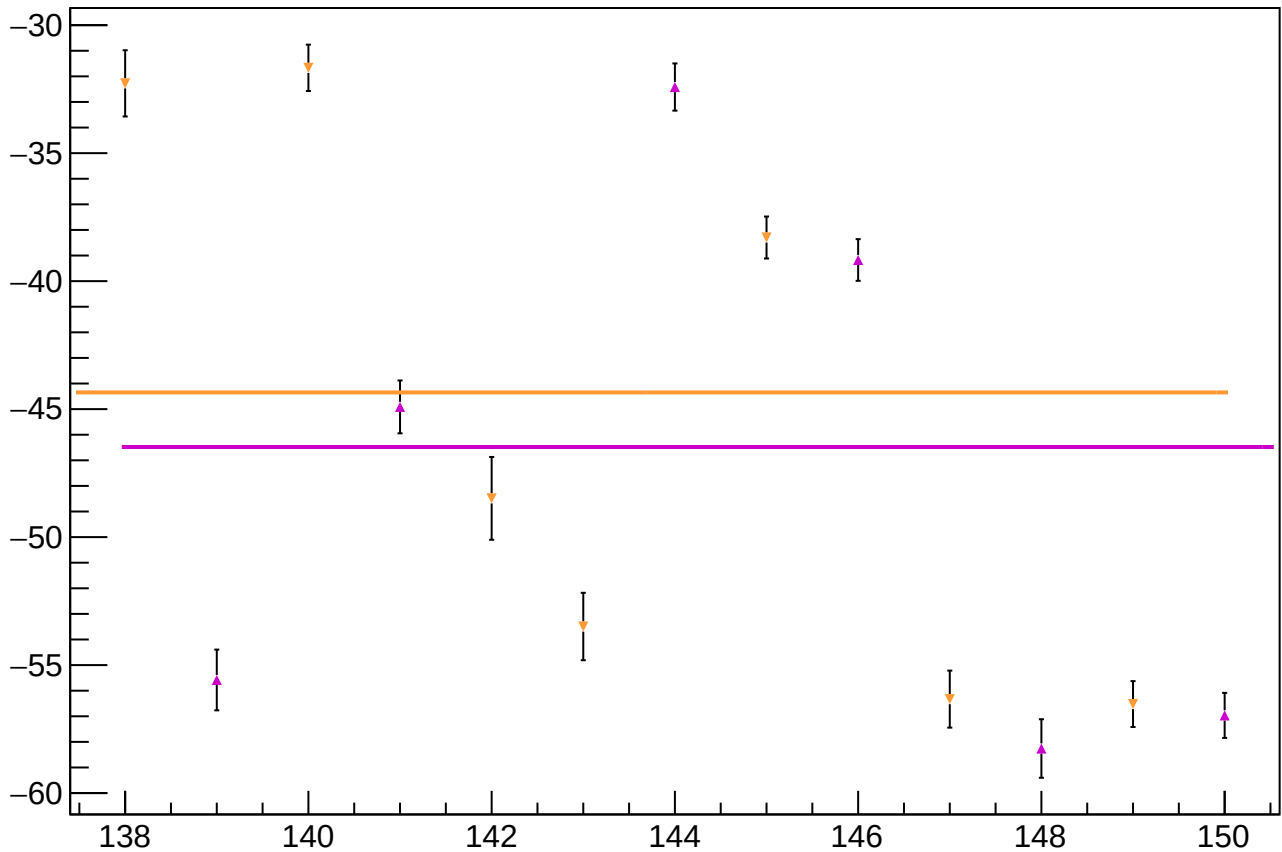
reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 32.206+/-0.274  $\chi^2/\text{NDF}$ :474.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 30.626+/-0.272  $\chi^2/\text{NDF}$ :206.5/5

Left: 31.409+/-0.193  $\chi^2/\text{NDF}$ : 697.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 30.626+/-0.272  $\chi^2/\text{NDF}$ :206.5/5  
 Out: 32.206+/-0.274  $\chi^2/\text{NDF}$ :474.0/6  
 All: 31.409+/-0.193  $\chi^2/\text{NDF}$ : 697.2/12

reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -44.347+/-0.398  $\chi^2/\text{NDF}$ : 692.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -46.480+/-0.396  $\chi^2/\text{NDF}$ : 622.0/5

Left: -45.419+/-0.281  $\chi^2/\text{NDF}$ : 1329.3/12

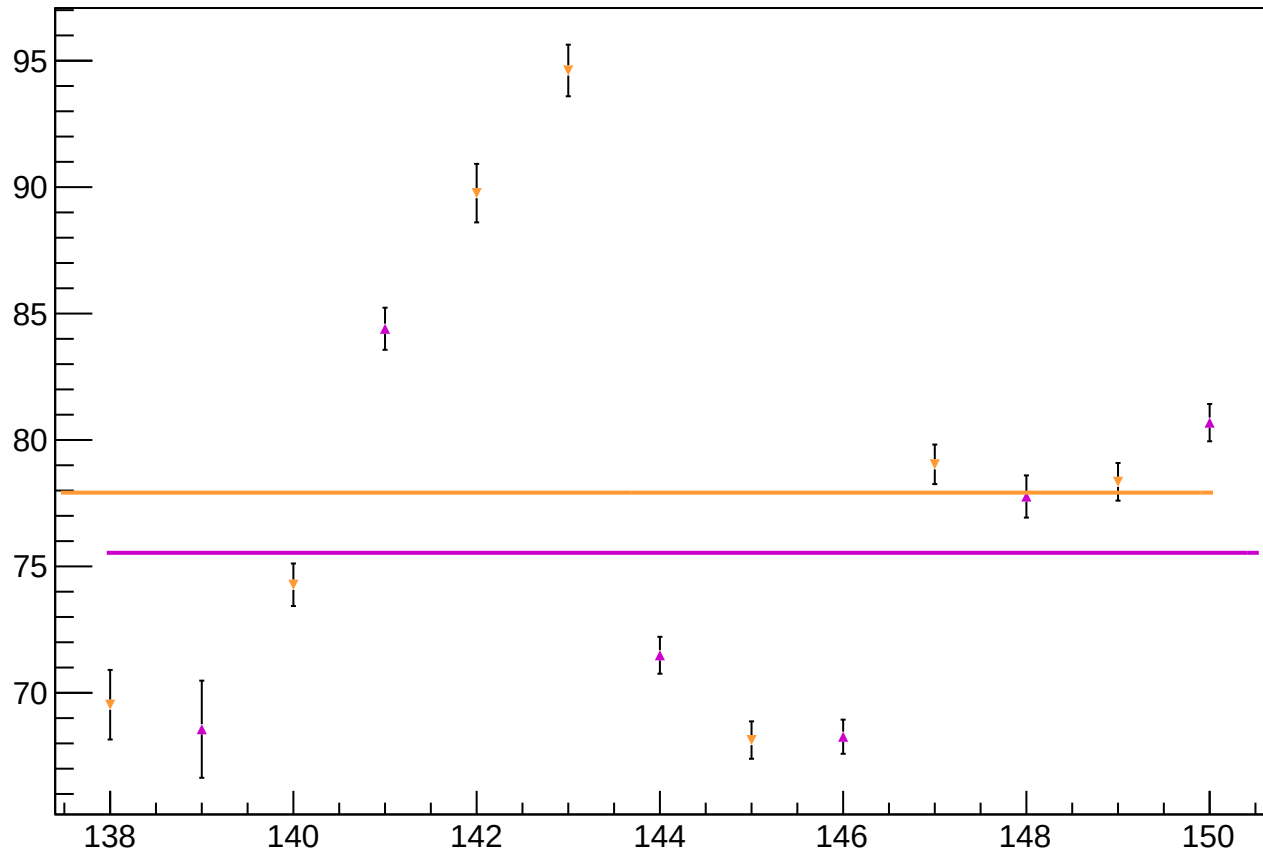
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -46.480+/-0.396  $\chi^2/\text{NDF}$ : 622.0/5

Out: -44.347+/-0.398  $\chi^2/\text{NDF}$ : 692.8/6

All: -45.419+/-0.281  $\chi^2/\text{NDF}$ : 1329.3/12

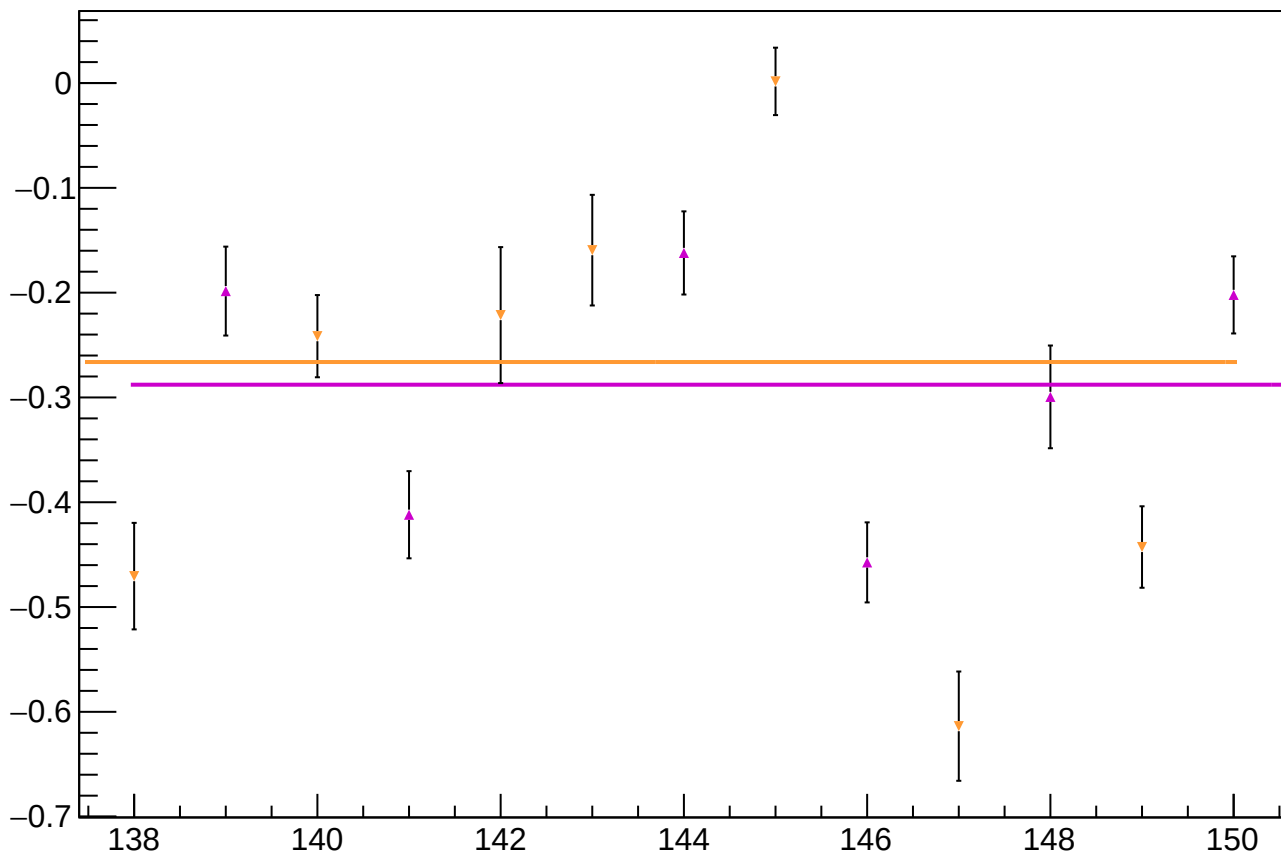
reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 77.918+/-0.335  $\chi^2/\text{NDF}$ :605.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 75.538+/-0.332  $\chi^2/\text{NDF}$ :329.0/5

Left: 76.718+/-0.236  $\chi^2/\text{NDF}$ : 960.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 75.538+/-0.332  $\chi^2/\text{NDF}$ :329.0/5  
 Out: 77.918+/-0.335  $\chi^2/\text{NDF}$ :605.7/6  
 All: 76.718+/-0.236  $\chi^2/\text{NDF}$ : 960.1/12

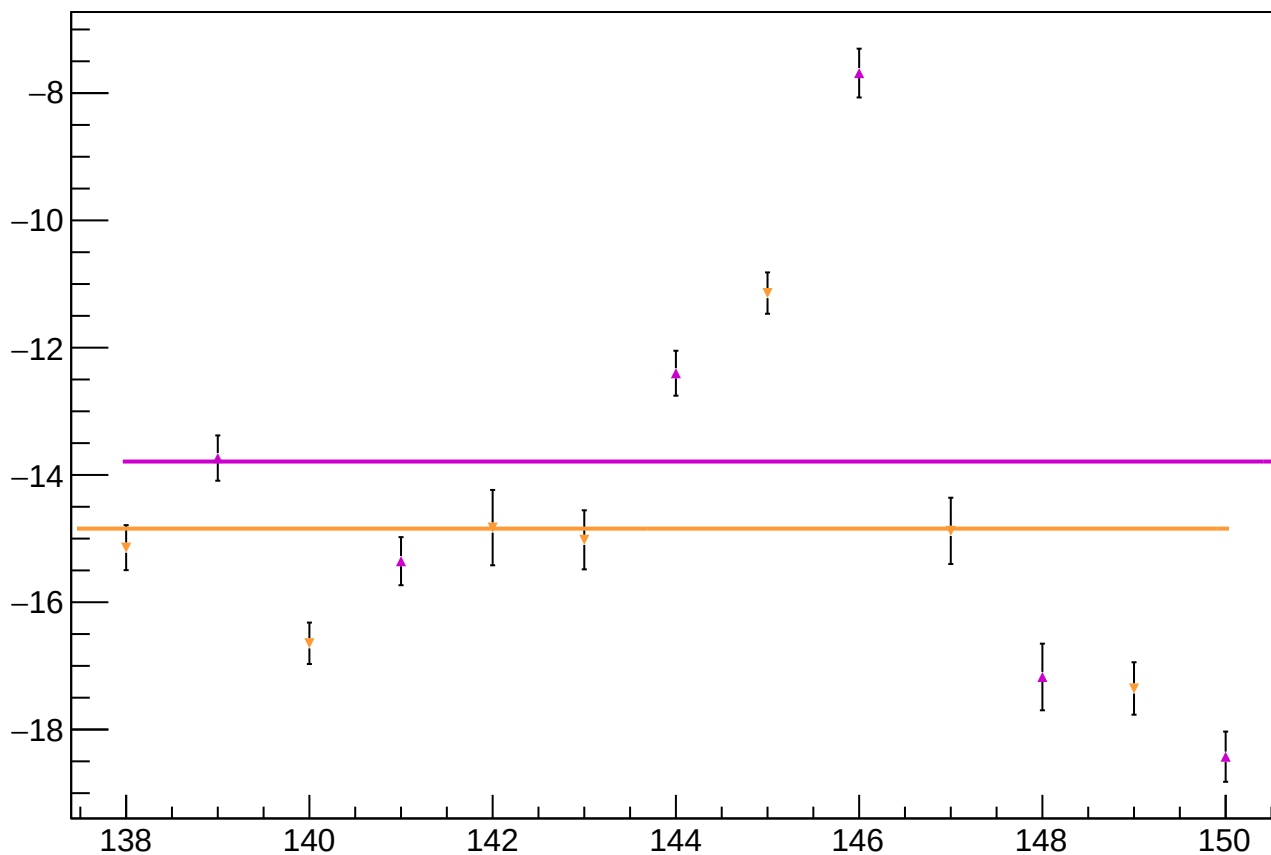
reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.266+/-0.017  $\chi^2/\text{NDF}$ :155.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.288+/-0.017  $\chi^2/\text{NDF}$ :48.6/5

Left: -0.277+/-0.012  $\chi^2/\text{NDF}$ : 204.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.288+/-0.017  $\chi^2/\text{NDF}$ :48.6/5  
 Out: -0.266+/-0.017  $\chi^2/\text{NDF}$ :155.4/6  
 All: -0.277+/-0.012  $\chi^2/\text{NDF}$ : 204.8/12

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -14.843+/-0.151  $\chi^2/\text{NDF}$ :198.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -13.789+/-0.159  $\chi^2/\text{NDF}$ :466.2/5

Left: -14.343+/-0.109  $\chi^2/\text{NDF}$ : 688.1/12

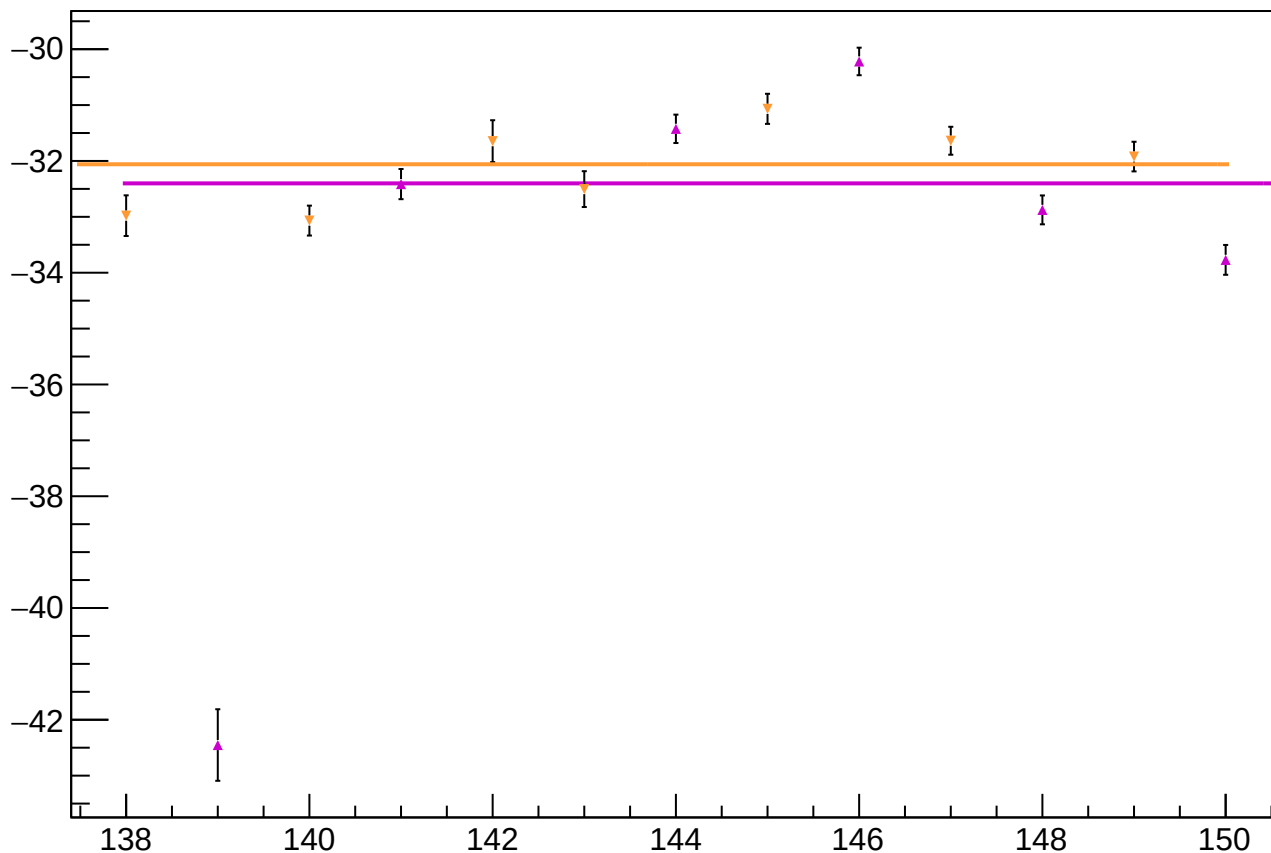
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -13.789+/-0.159  $\chi^2/\text{NDF}$ :466.2/5

Out: -14.843+/-0.151  $\chi^2/\text{NDF}$ :198.7/6

All: -14.343+/-0.109  $\chi^2/\text{NDF}$ : 688.1/12

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -32.059 $\pm$ 0.110  $\chi^2/\text{NDF}$ :40.4/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -32.401 $\pm$ 0.114  $\chi^2/\text{NDF}$ :369.2/5

Left: -32.225 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 414.3/12

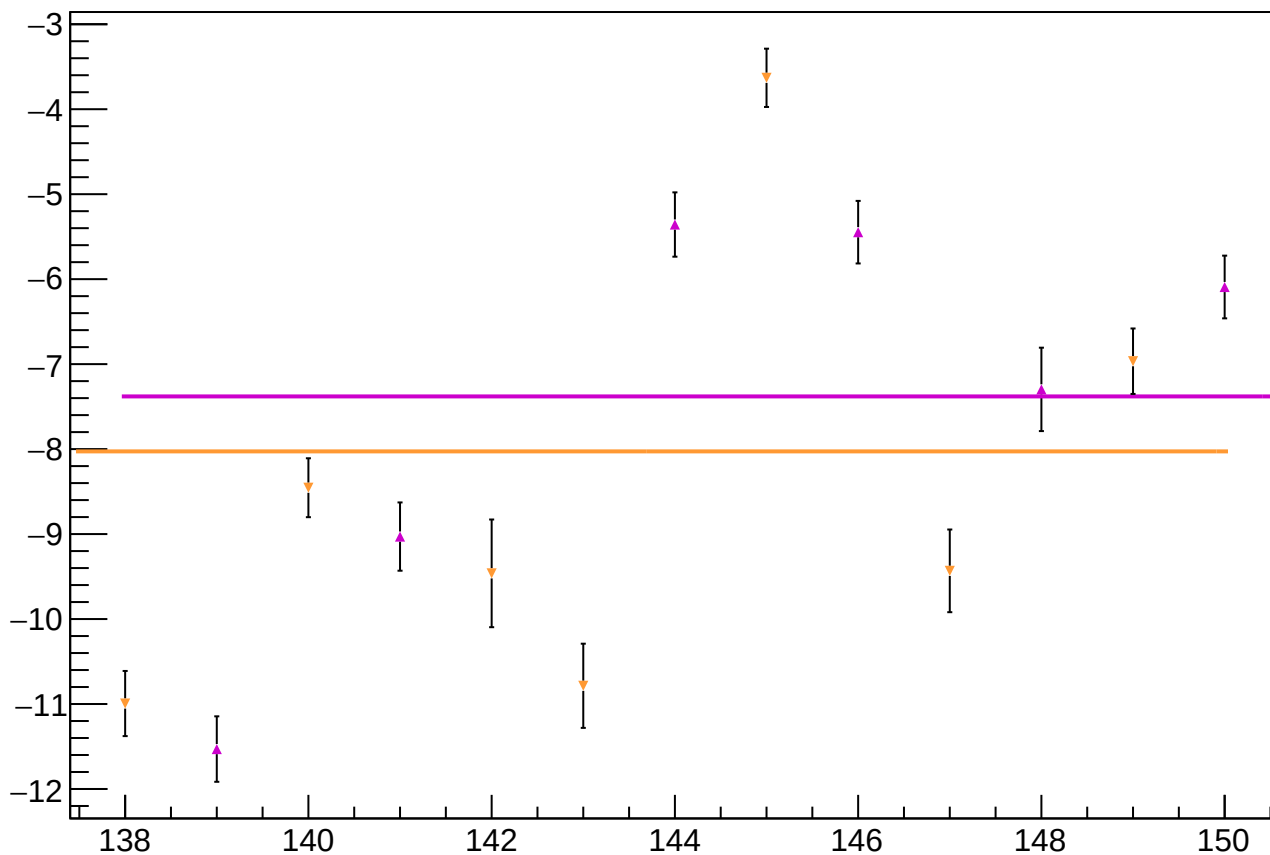
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -32.401 $\pm$ 0.114  $\chi^2/\text{NDF}$ :369.2/5

Out: -32.059 $\pm$ 0.110  $\chi^2/\text{NDF}$ :40.4/6

All: -32.225 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 414.3/12

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -8.027 $\pm$ 0.156  $\chi^2$ /NDF:277.8/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -7.380 $\pm$ 0.161  $\chi^2$ /NDF:201.3/5

Left: -7.713 $\pm$ 0.112  $\chi^2$ /NDF: 487.4/12

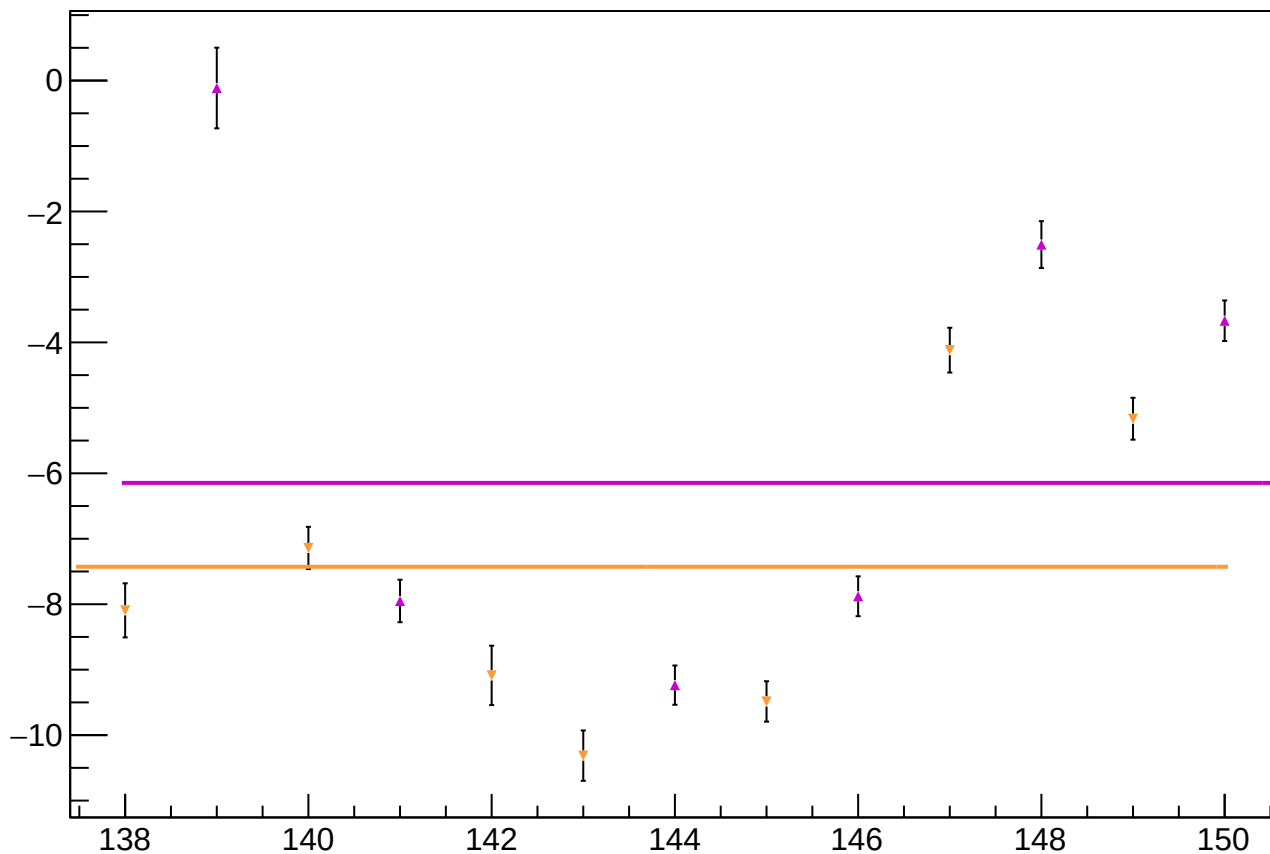
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -7.380 $\pm$ 0.161  $\chi^2$ /NDF:201.3/5

Out: -8.027 $\pm$ 0.156  $\chi^2$ /NDF:277.8/6

All: -7.713 $\pm$ 0.112  $\chi^2$ /NDF: 487.4/12

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

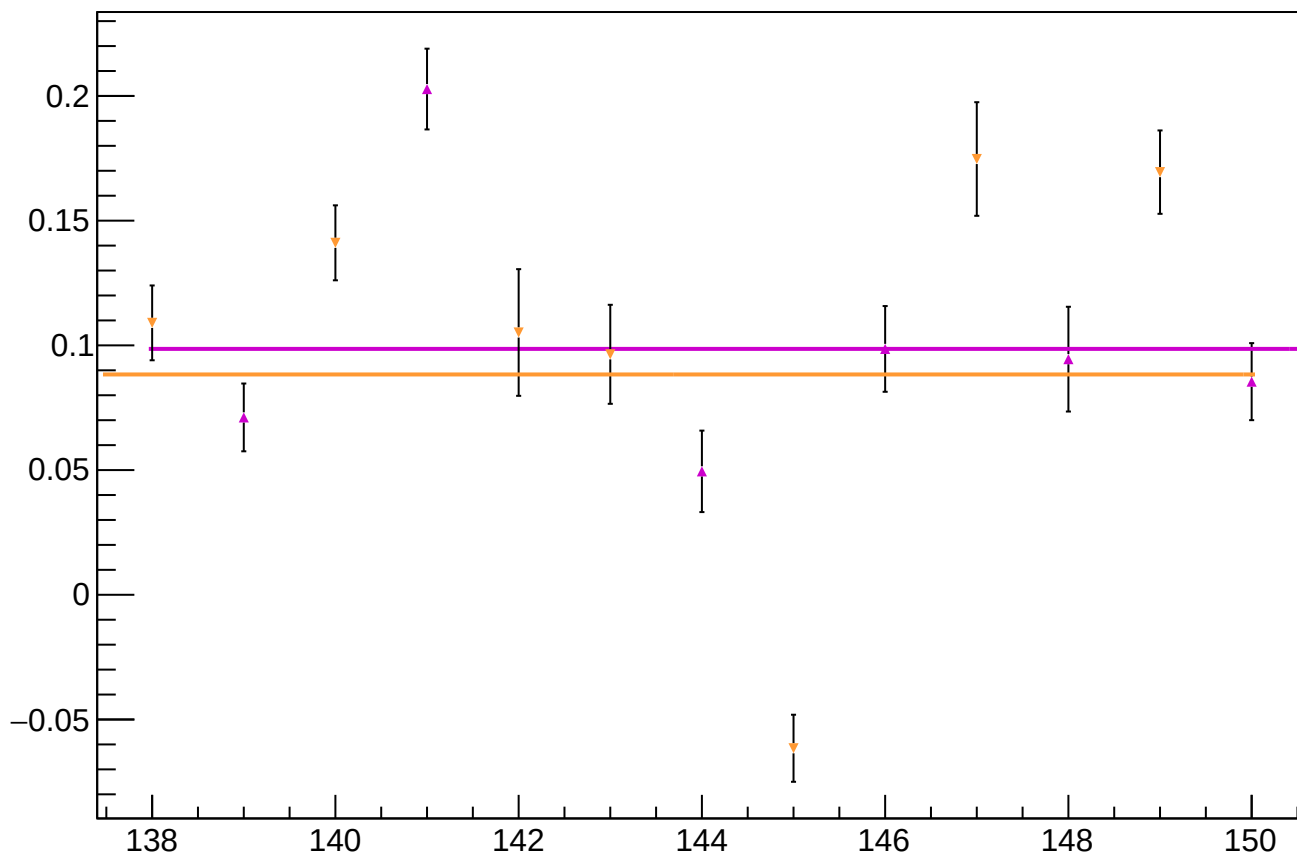


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.427+/-0.134  $\chi^2/\text{NDF}$ :261.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.147+/-0.138  $\chi^2/\text{NDF}$ :432.6/5

Left: -6.809+/-0.096  $\chi^2/\text{NDF}$ : 738.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -6.147+/-0.138  $\chi^2/\text{NDF}$ :432.6/5  
 Out: -7.427+/-0.134  $\chi^2/\text{NDF}$ :261.2/6  
 All: -6.809+/-0.096  $\chi^2/\text{NDF}$ : 738.2/12



reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.088 $\pm$ 0.006  $\chi^2$ /NDF:177.0/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.099 $\pm$ 0.007  $\chi^2$ /NDF:55.3/5

Left: 0.093 $\pm$ 0.005  $\chi^2$ /NDF: 233.5/12

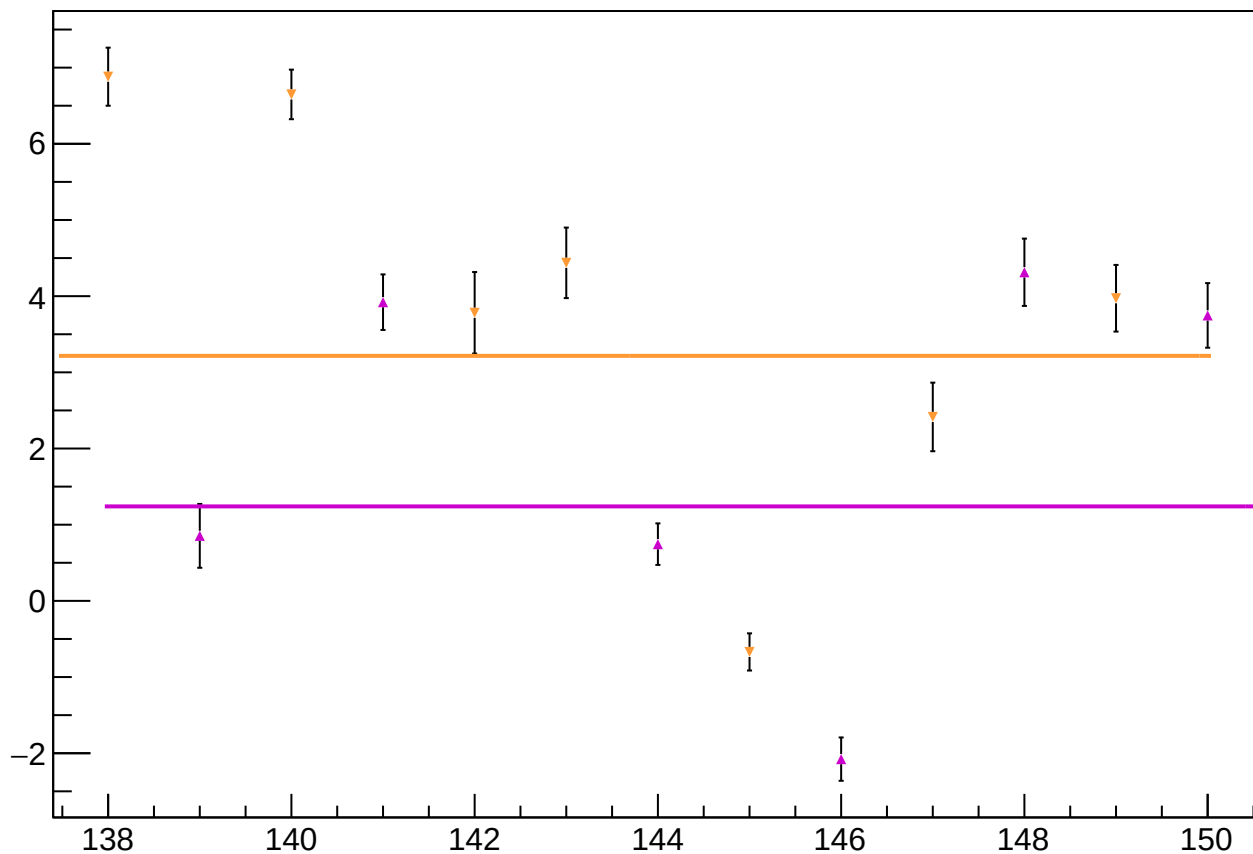
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.099 $\pm$ 0.007  $\chi^2$ /NDF:55.3/5

Out: 0.088 $\pm$ 0.006  $\chi^2$ /NDF:177.0/6

All: 0.093 $\pm$ 0.005  $\chi^2$ /NDF: 233.5/12

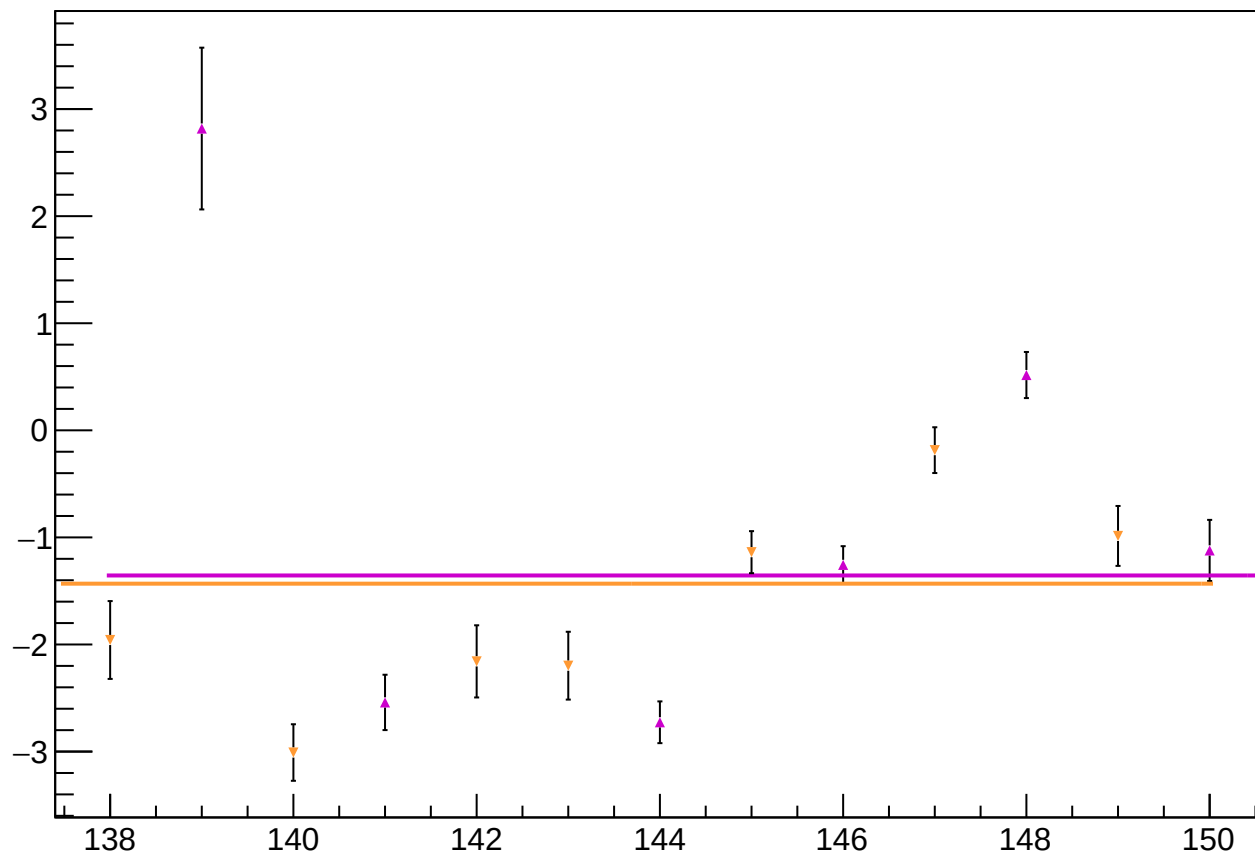
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 3.216 $\pm$ 0.139  $\chi^2$ /NDF:472.0/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.240 $\pm$ 0.142  $\chi^2$ /NDF:277.5/5

Left: 2.245 $\pm$ 0.099  $\chi^2$ /NDF: 848.3/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 1.240 $\pm$ 0.142  $\chi^2$ /NDF:277.5/5  
 Out: 3.216 $\pm$ 0.139  $\chi^2$ /NDF:472.0/6  
 All: 2.245 $\pm$ 0.099  $\chi^2$ /NDF: 848.3/12

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.432+/-0.099  $\chi^2/\text{NDF}$ : 87.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1.355+/-0.095  $\chi^2/\text{NDF}$ : 177.6/5

Left: -1.392+/-0.069  $\chi^2/\text{NDF}$ : 265.0/12

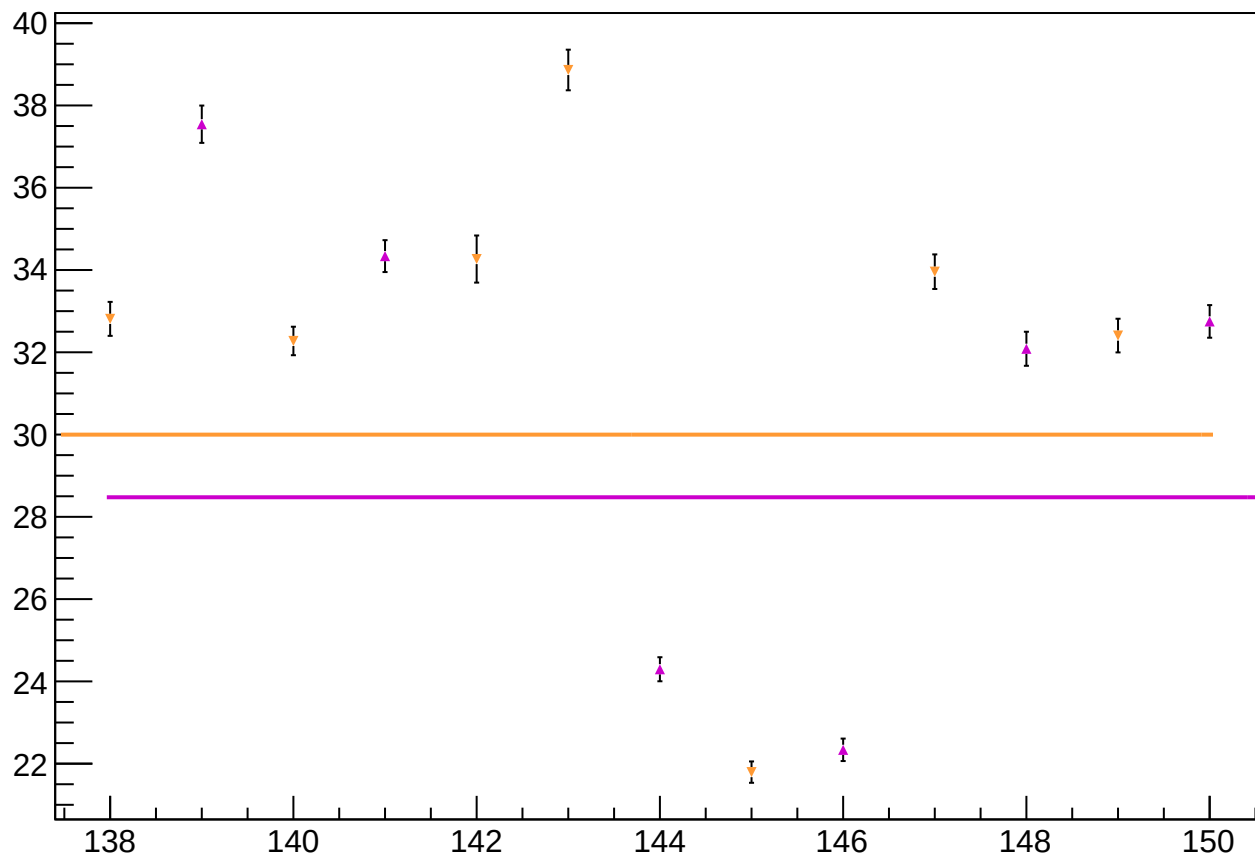
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.355+/-0.095  $\chi^2/\text{NDF}$ : 177.6/5

Out: -1.432+/-0.099  $\chi^2/\text{NDF}$ : 87.1/6

All: -1.392+/-0.069  $\chi^2/\text{NDF}$ : 265.0/12

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 29.998+/-0.145  $\chi^2/\text{NDF}$ :1588.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 28.476+/-0.143  $\chi^2/\text{NDF}$ :1530.7/5

Left: 29.229+/-0.102  $\chi^2/\text{NDF}$ : 3175.5/12

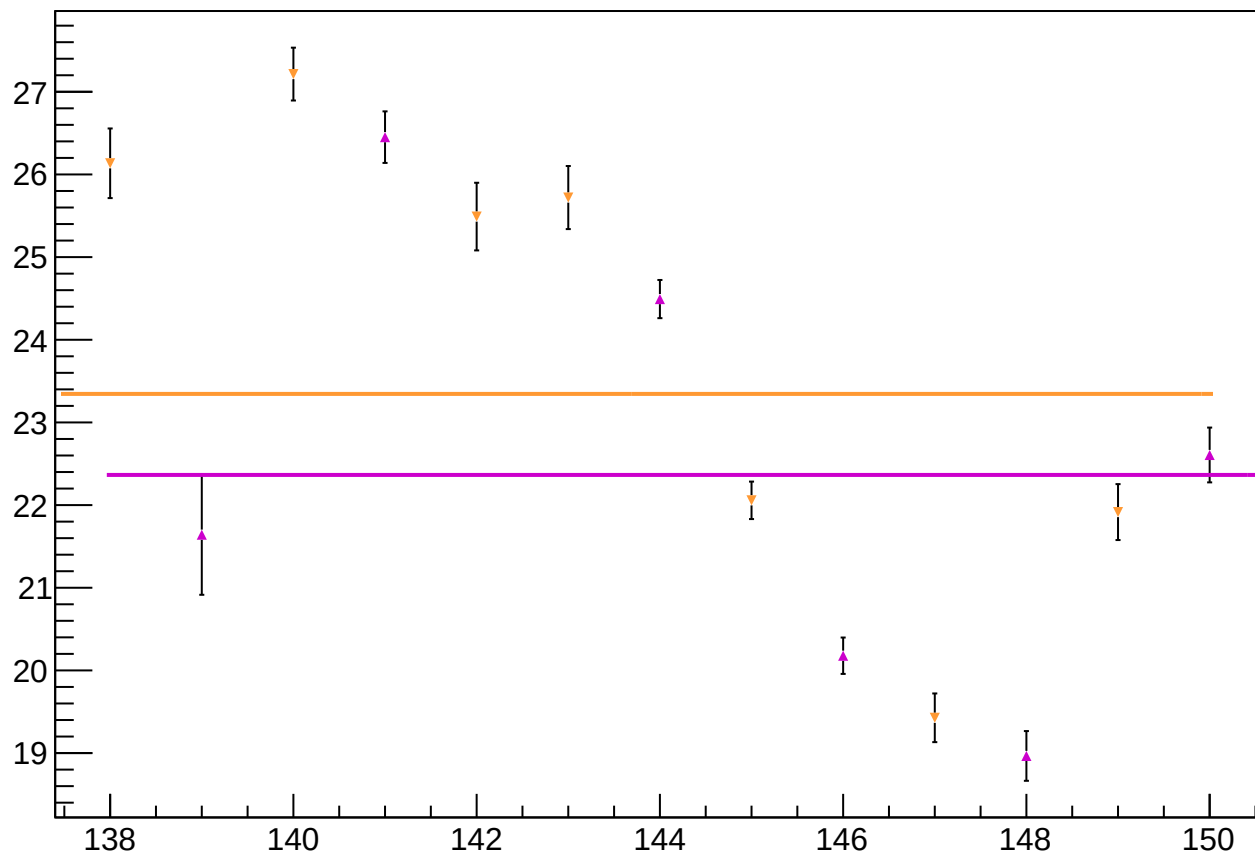
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 28.476+/-0.143  $\chi^2/\text{NDF}$ :1530.7/5

Out: 29.998+/-0.145  $\chi^2/\text{NDF}$ :1588.8/6

All: 29.229+/-0.102  $\chi^2/\text{NDF}$ : 3175.5/12

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 23.345+/-0.121  $\chi^2/\text{NDF}$ :483.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 22.365+/-0.118  $\chi^2/\text{NDF}$ :484.6/5

Left: 22.842+/-0.085  $\chi^2/\text{NDF}$ : 1002.0/12

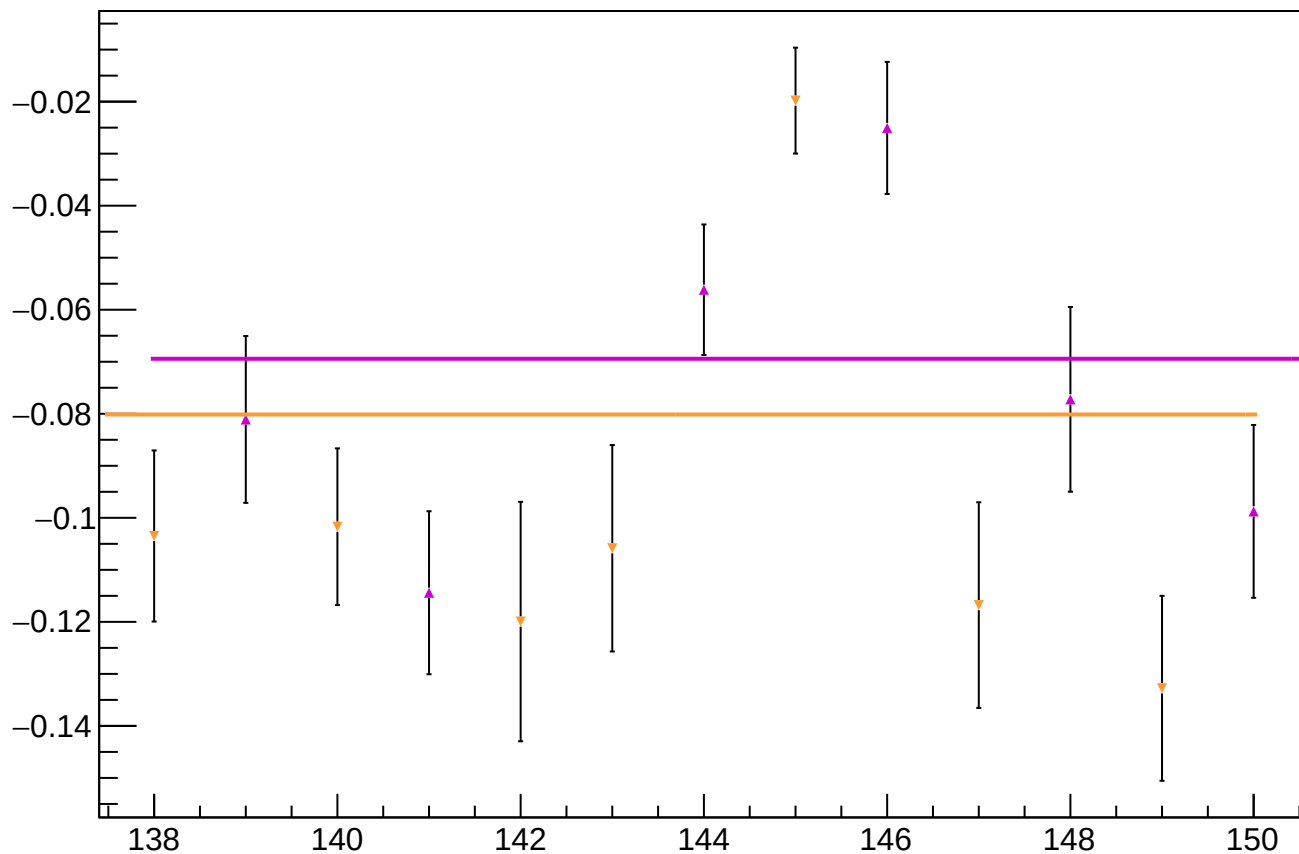
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 22.365+/-0.118  $\chi^2/\text{NDF}$ :484.6/5

Out: 23.345+/-0.121  $\chi^2/\text{NDF}$ :483.9/6

All: 22.842+/-0.085  $\chi^2/\text{NDF}$ : 1002.0/12

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.080+/-0.006  $\chi^2$ /NDF:56.1/6

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.069+/-0.006  $\chi^2$ /NDF:25.4/5

Left: -0.075+/-0.004  $\chi^2$ /NDF: 83.1/12

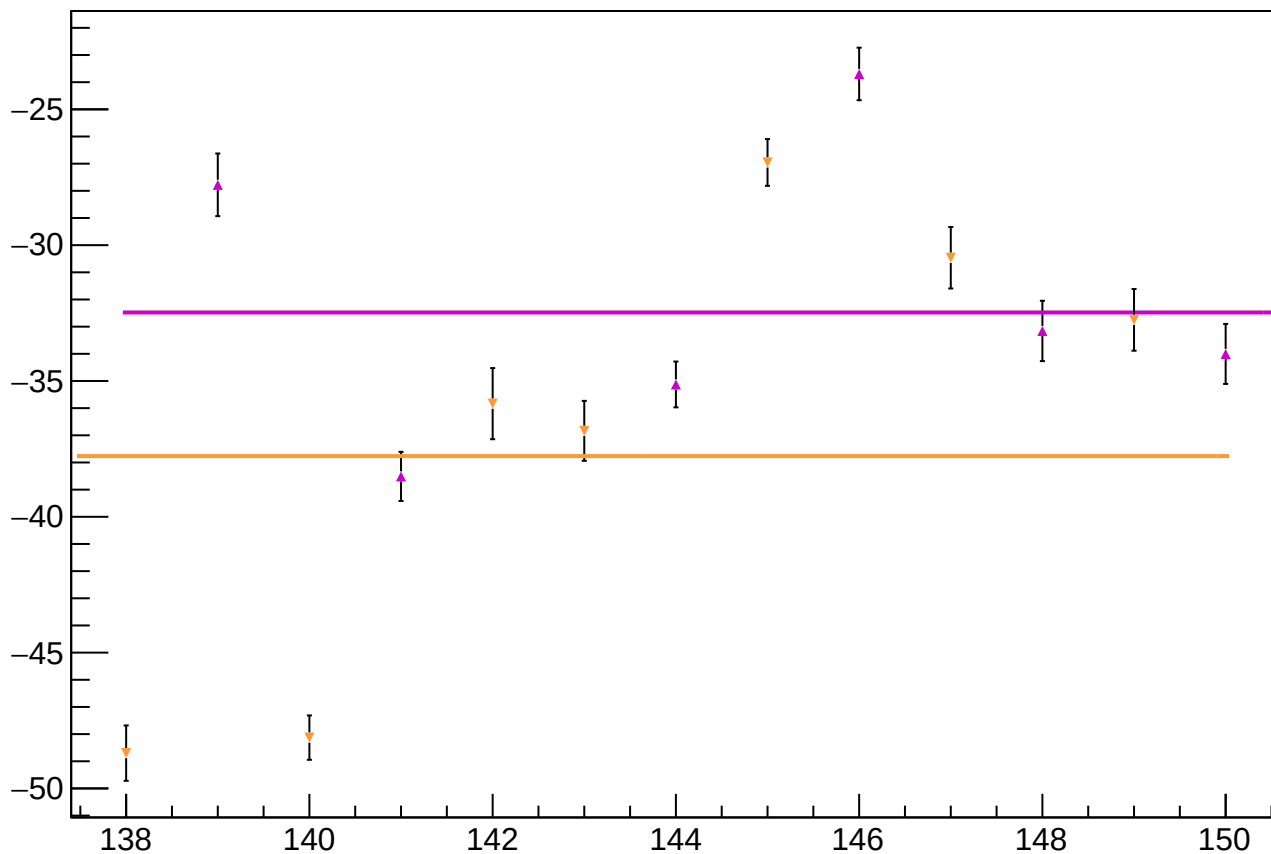
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: -0.069+/-0.006  $\chi^2$ /NDF:25.4/5

Out: -0.080+/-0.006  $\chi^2$ /NDF:56.1/6

All: -0.075+/-0.004  $\chi^2$ /NDF: 83.1/12

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -37.765 $\pm$ 0.384  $\chi^2$ /NDF:498.0/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -32.477 $\pm$ 0.406  $\chi^2$ /NDF:155.7/5

Left: -35.264 $\pm$ 0.279  $\chi^2$ /NDF: 743.2/12

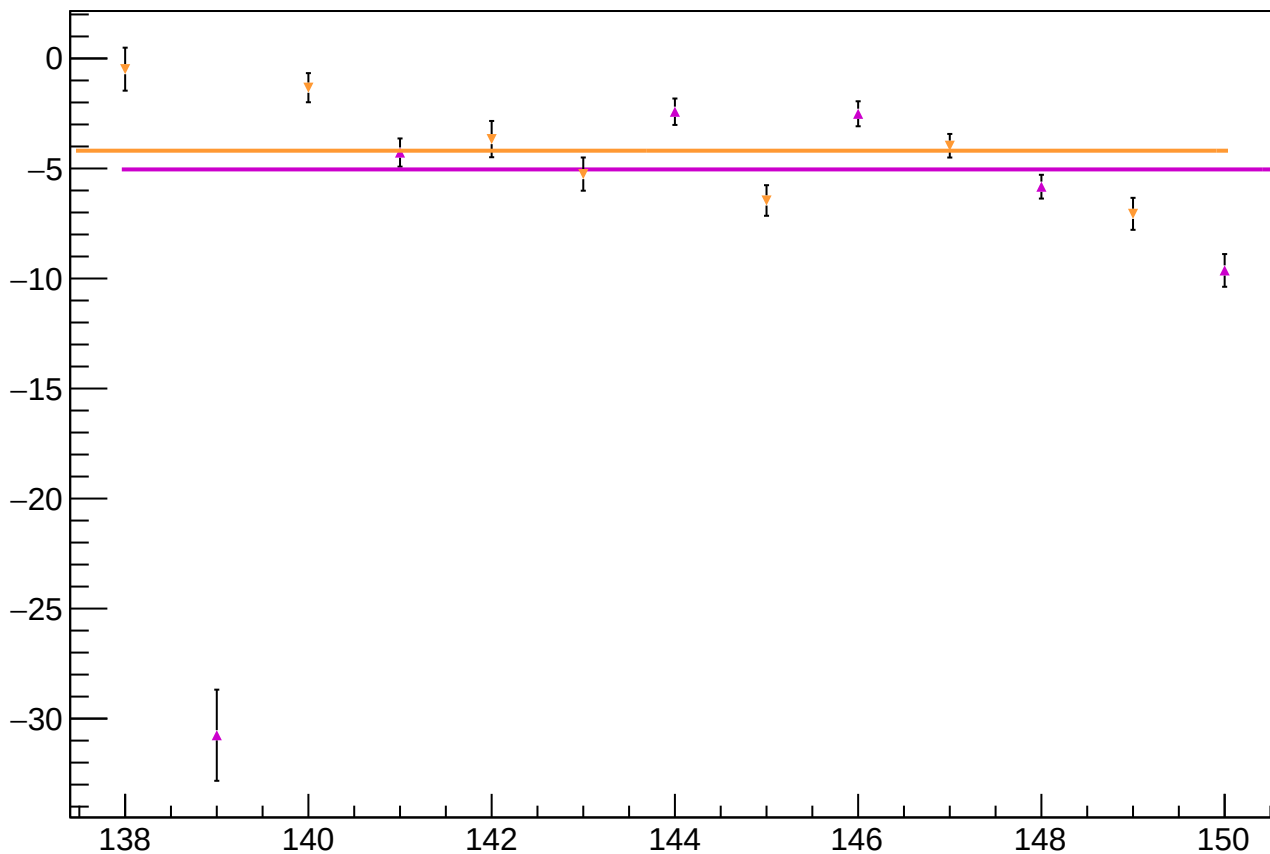
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -32.477 $\pm$ 0.406  $\chi^2$ /NDF:155.7/5

Out: -37.765 $\pm$ 0.384  $\chi^2$ /NDF:498.0/6

All: -35.264 $\pm$ 0.279  $\chi^2$ /NDF: 743.2/12

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -4.192+/-0.267  $\chi^2/\text{NDF}$ :61.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -5.043+/-0.269  $\chi^2/\text{NDF}$ :234.7/5

Left: -4.614+/-0.190  $\chi^2/\text{NDF}$ : 301.6/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

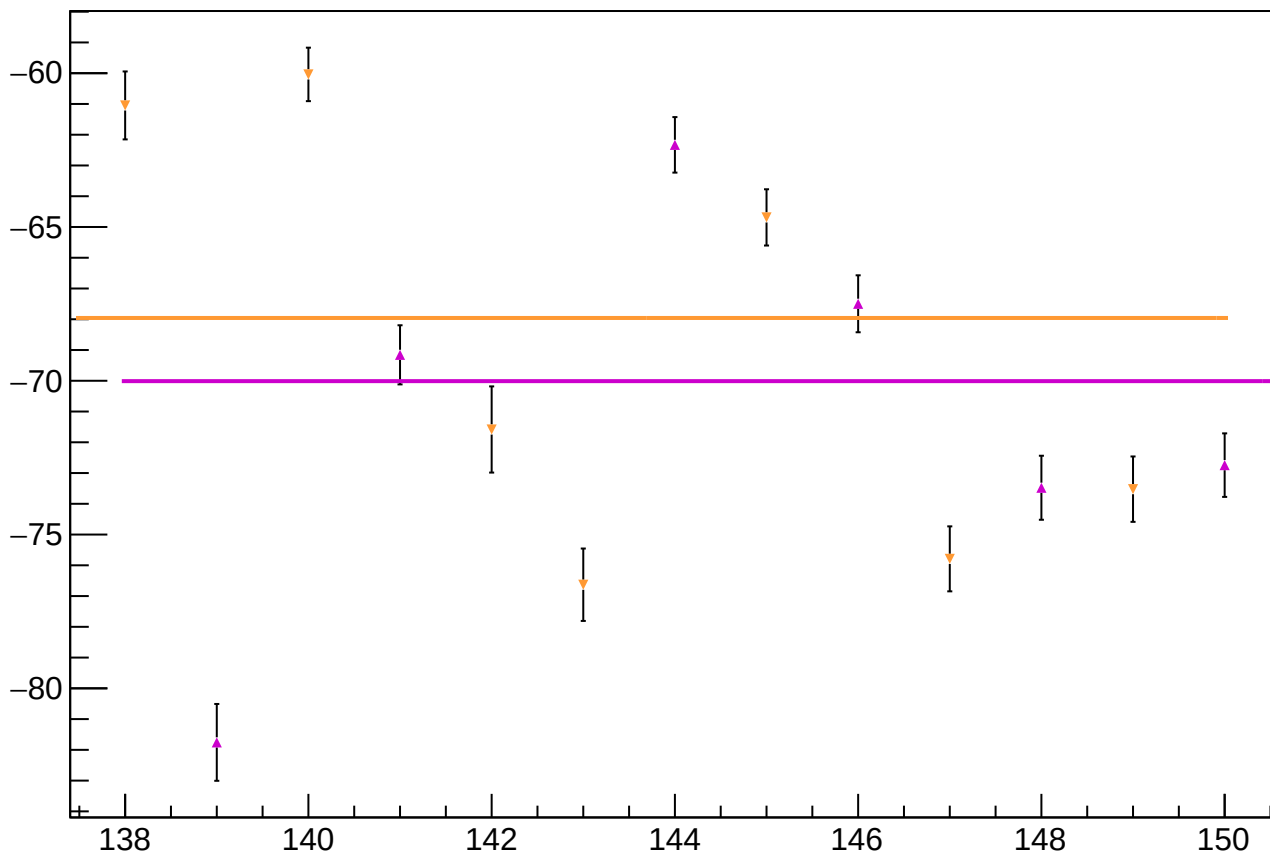
In: -5.043+/-0.269  $\chi^2/\text{NDF}$ :234.7/5

Out: -4.192+/-0.267  $\chi^2/\text{NDF}$ :61.8/6

All: -4.614+/-0.190  $\chi^2/\text{NDF}$ : 301.6/12



reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -67.958+/-0.397  $\chi^2/\text{NDF}$ :278.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -70.012+/-0.409  $\chi^2/\text{NDF}$ :187.1/5

Left: -68.954+/-0.285  $\chi^2/\text{NDF}$ : 478.4/12

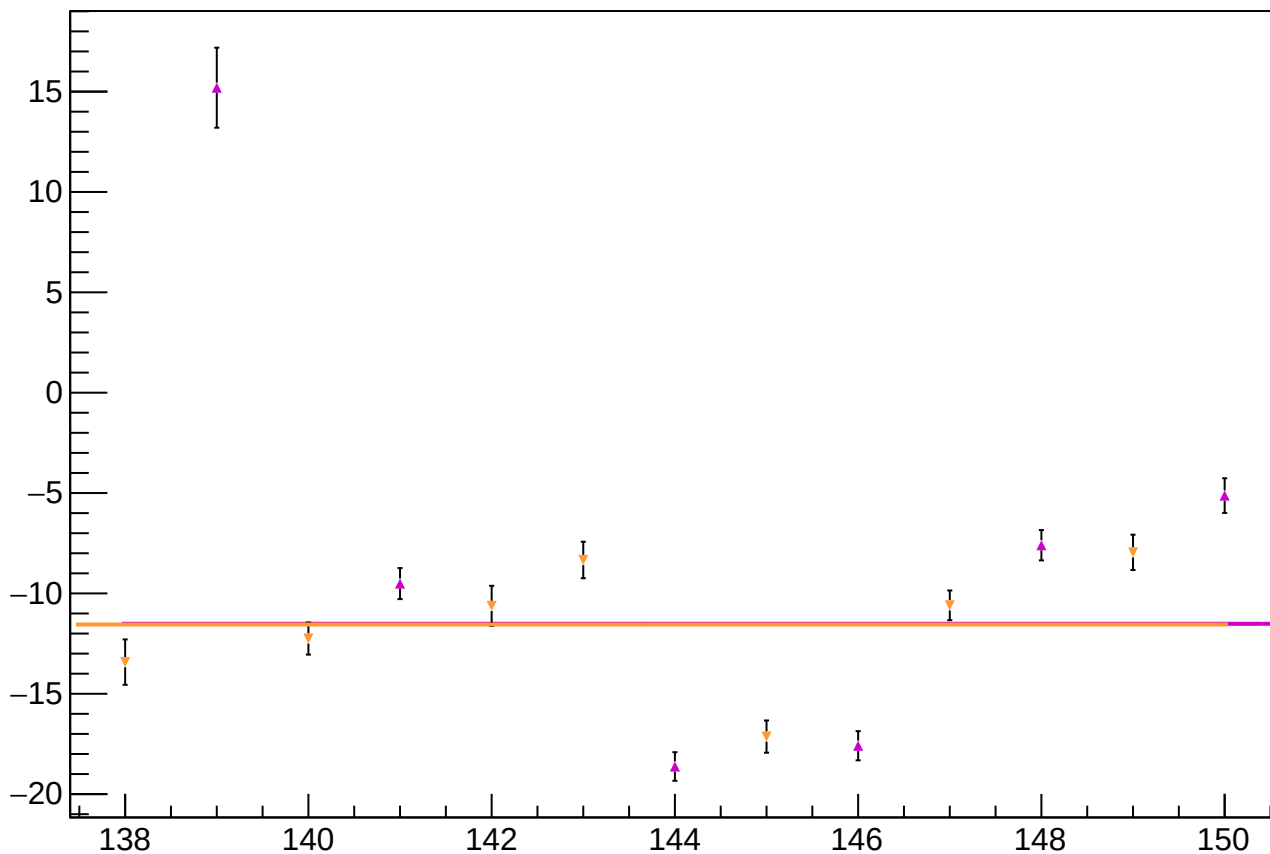
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -70.012+/-0.409  $\chi^2/\text{NDF}$ :187.1/5

Out: -67.958+/-0.397  $\chi^2/\text{NDF}$ :278.3/6

All: -68.954+/-0.285  $\chi^2/\text{NDF}$ : 478.4/12

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -11.550+/-0.329  $\chi^2/\text{NDF}$ :83.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -11.514+/-0.336  $\chi^2/\text{NDF}$ :437.3/5

Left: -11.532+/-0.235  $\chi^2/\text{NDF}$ : 521.0/12

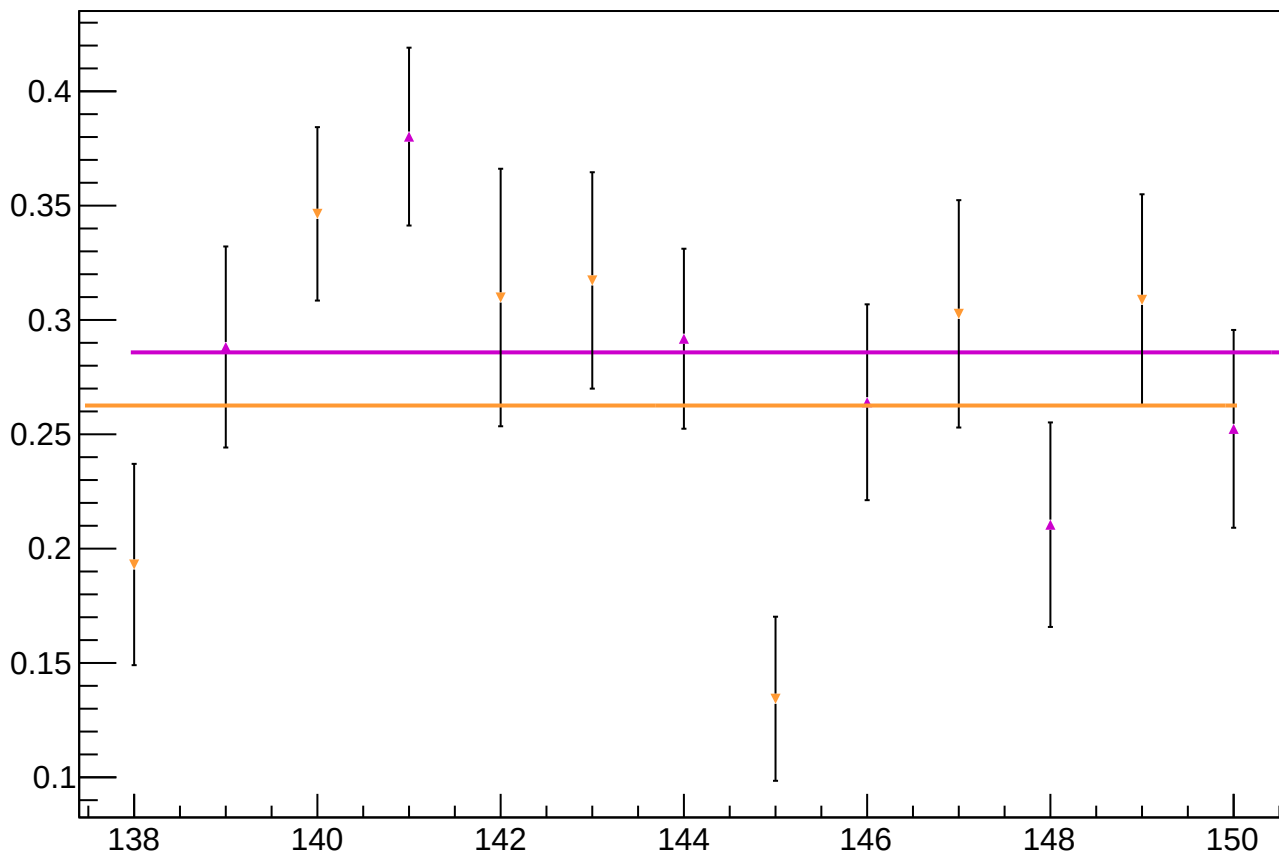
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -11.514+/-0.336  $\chi^2/\text{NDF}$ :437.3/5

Out: -11.550+/-0.329  $\chi^2/\text{NDF}$ :83.7/6

All: -11.532+/-0.235  $\chi^2/\text{NDF}$ : 521.0/12

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.263+/-0.017  $\chi^2/\text{NDF}$ :23.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.286+/-0.017  $\chi^2/\text{NDF}$ :9.6/5

Left: 0.274+/-0.012  $\chi^2/\text{NDF}$ : 34.4/12

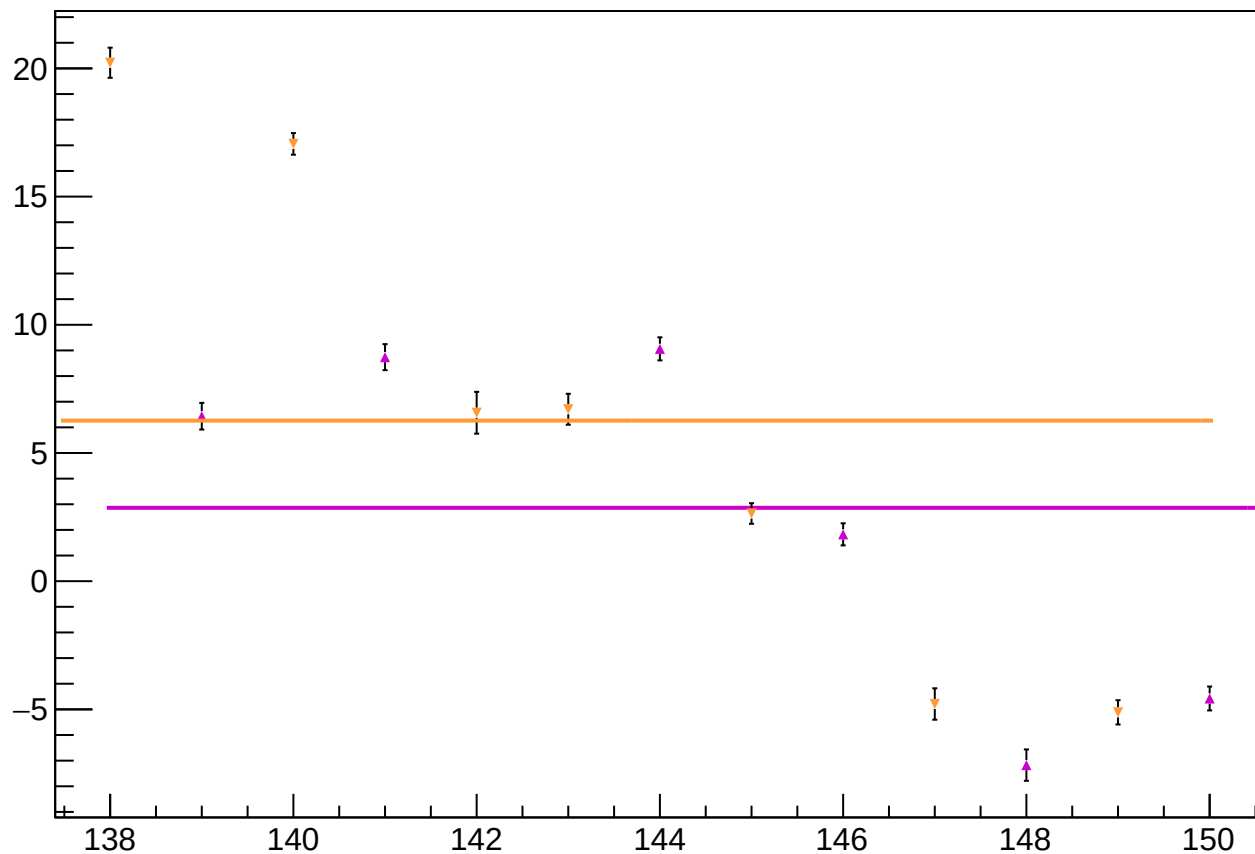
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.286+/-0.017  $\chi^2/\text{NDF}$ :9.6/5

Out: 0.263+/-0.017  $\chi^2/\text{NDF}$ :23.8/6

All: 0.274+/-0.012  $\chi^2/\text{NDF}$ : 34.4/12

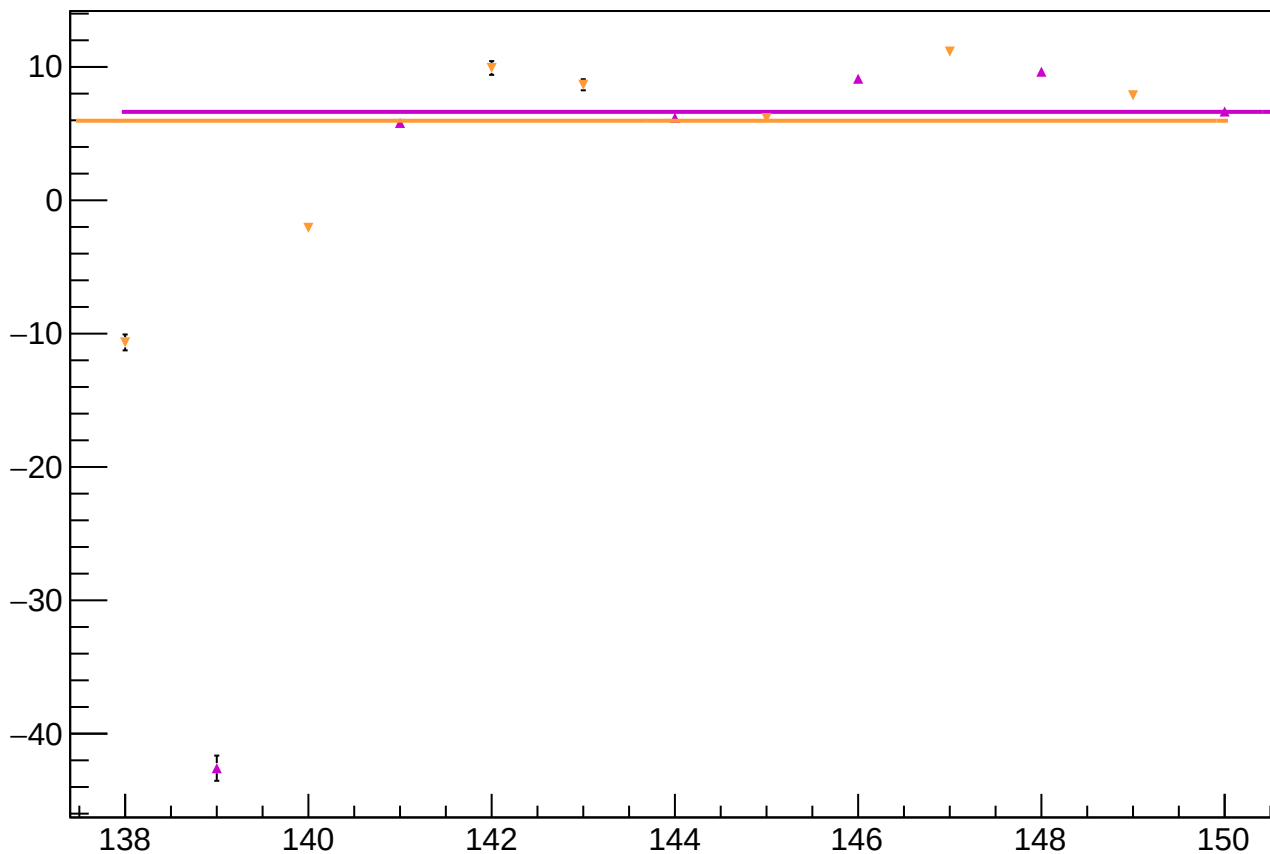
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $6.263 \pm 0.196$   $\chi^2/\text{NDF}$ : 2202.7/6  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $2.862 \pm 0.199$   $\chi^2/\text{NDF}$ : 900.4/5

Left:  $4.593 \pm 0.140$   $\chi^2/\text{NDF}$ : 3251.3/12  
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 In:  $2.862 \pm 0.199$   $\chi^2/\text{NDF}$ : 900.4/5  
 Out:  $6.263 \pm 0.196$   $\chi^2/\text{NDF}$ : 2202.7/6  
 All:  $4.593 \pm 0.140$   $\chi^2/\text{NDF}$ : 3251.3/12

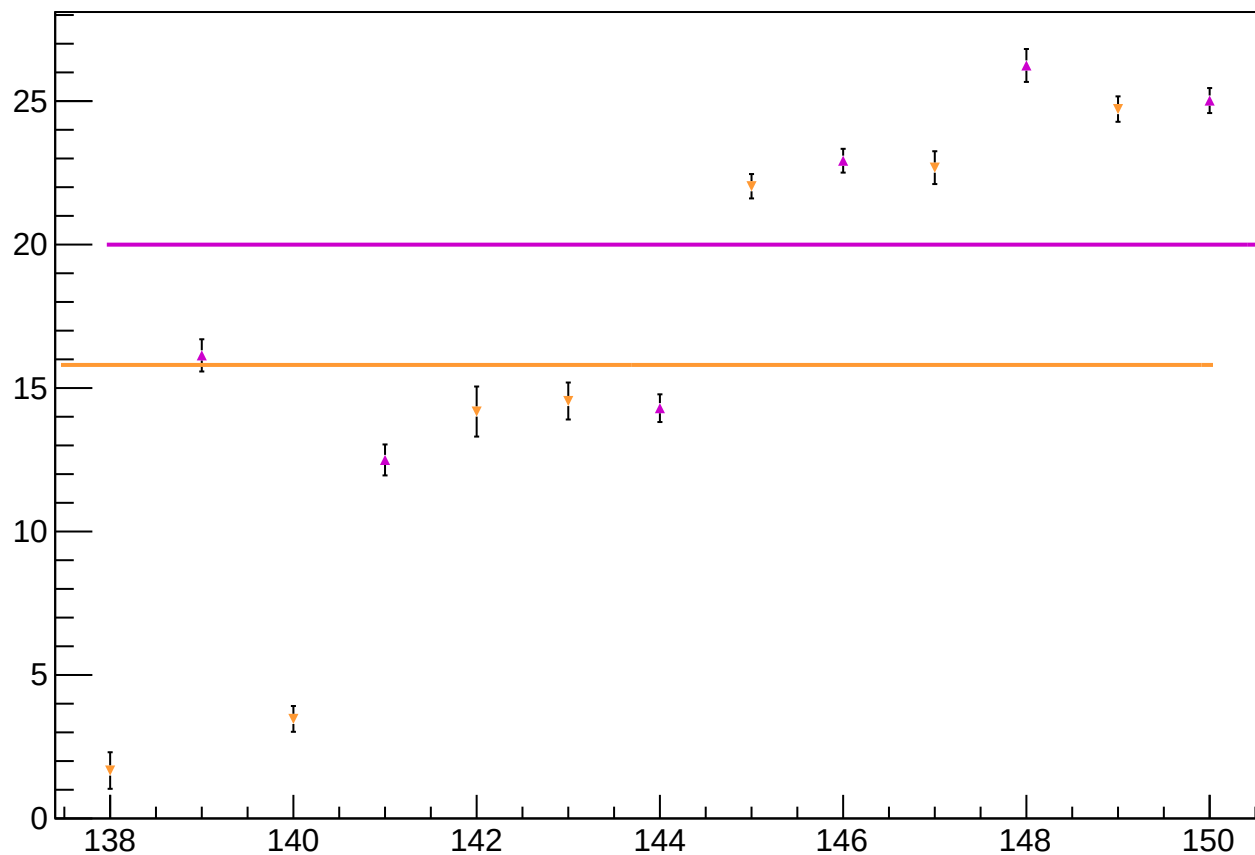
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.969+/-0.139  $\chi^2/\text{NDF}$ :1755.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 6.633+/-0.138  $\chi^2/\text{NDF}$ :2901.5/5

Left: 6.302+/-0.098  $\chi^2/\text{NDF}$ : 4668.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 6.633+/-0.138  $\chi^2/\text{NDF}$ :2901.5/5  
 Out: 5.969+/-0.139  $\chi^2/\text{NDF}$ :1755.0/6  
 All: 6.302+/-0.098  $\chi^2/\text{NDF}$ : 4668.0/12

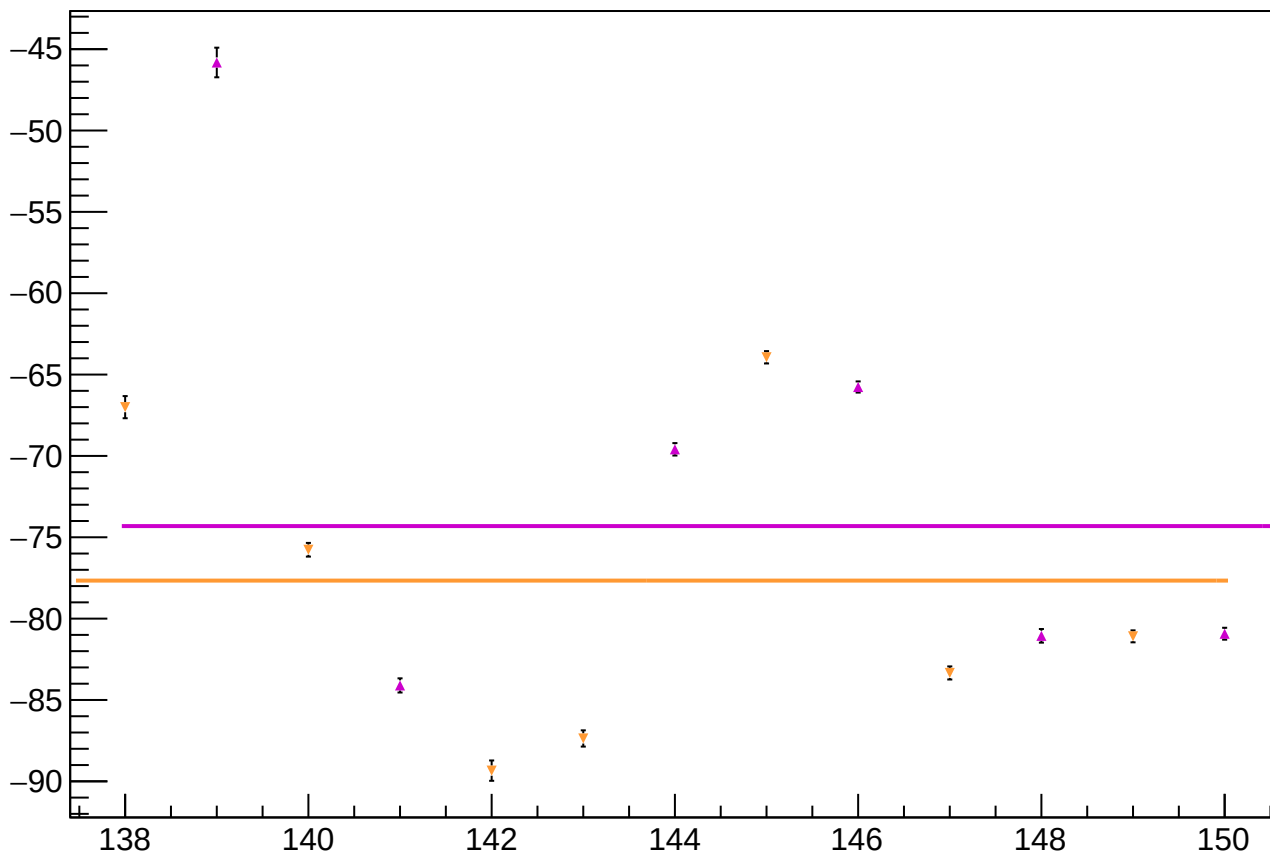
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 15.805+/-0.201  $\chi^2/\text{NDF}$ :2016.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 19.997+/-0.200  $\chi^2/\text{NDF}$ :680.9/5

Left: 17.910+/-0.142  $\chi^2/\text{NDF}$ : 2916.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 19.997+/-0.200  $\chi^2/\text{NDF}$ :680.9/5  
 Out: 15.805+/-0.201  $\chi^2/\text{NDF}$ :2016.3/6  
 All: 17.910+/-0.142  $\chi^2/\text{NDF}$ : 2916.2/12

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



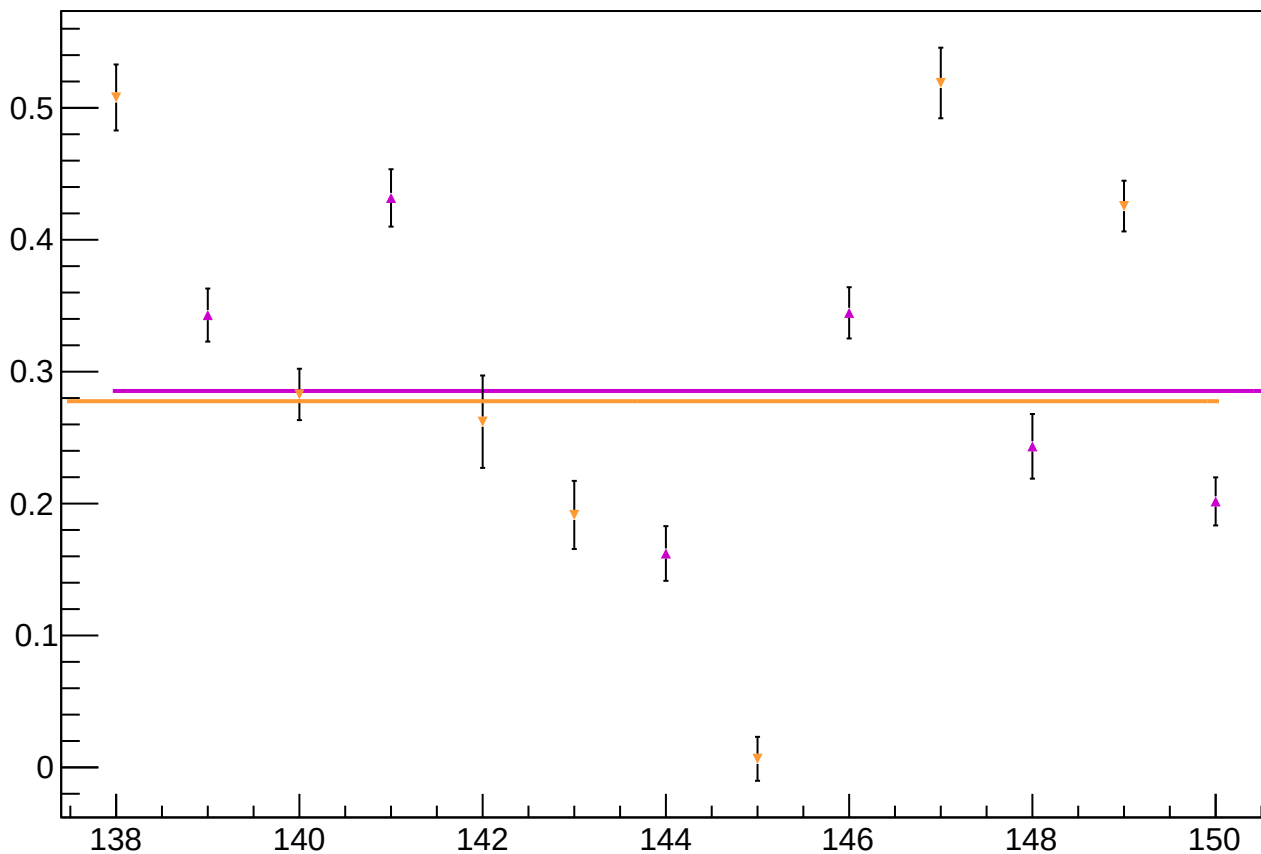
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -77.662+/-0.169  $\chi^2/\text{NDF}$ :2588.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -74.312+/-0.169  $\chi^2/\text{NDF}$ :2844.0/5

Left: -75.985+/-0.120  $\chi^2/\text{NDF}$ : 5628.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -74.312+/-0.169  $\chi^2/\text{NDF}$ :2844.0/5  
 Out: -77.662+/-0.169  $\chi^2/\text{NDF}$ :2588.0/6

All: -75.985+/-0.120  $\chi^2/\text{NDF}$ : 5628.0/12

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected

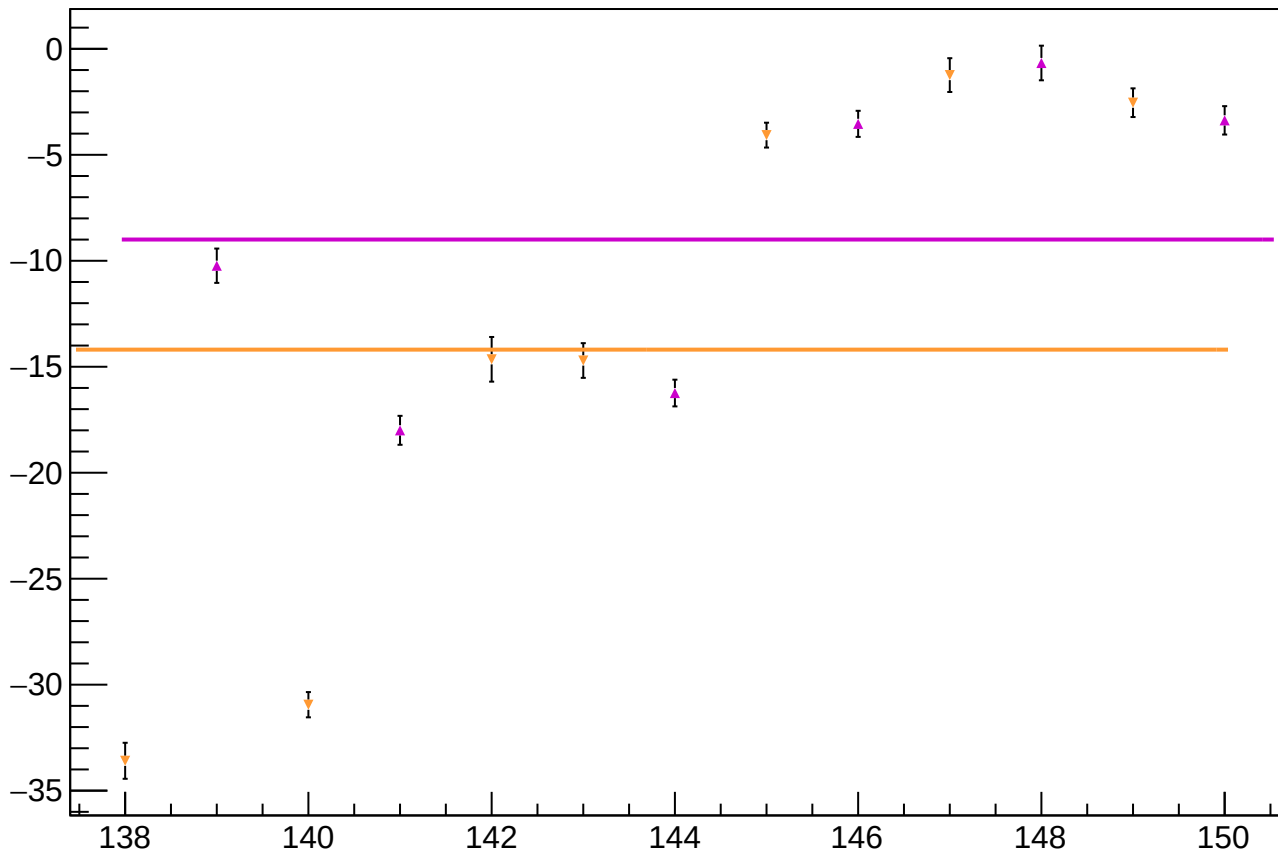


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.278 $\pm$ 0.008  $\chi^2$ /NDF:501.4/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.285 $\pm$ 0.008  $\chi^2$ /NDF:122.1/5

Left: 0.281 $\pm$ 0.006  $\chi^2$ /NDF: 623.9/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.285 $\pm$ 0.008  $\chi^2$ /NDF:122.1/5  
 Out: 0.278 $\pm$ 0.008  $\chi^2$ /NDF:501.4/6  
 All: 0.281 $\pm$ 0.006  $\chi^2$ /NDF: 623.9/12



reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -14.192+/-0.275  $\chi^2/\text{NDF}$ :2170.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -8.997+/-0.282  $\chi^2/\text{NDF}$ :561.2/5

Left: -11.665+/-0.197  $\chi^2/\text{NDF}$ : 2905.5/12

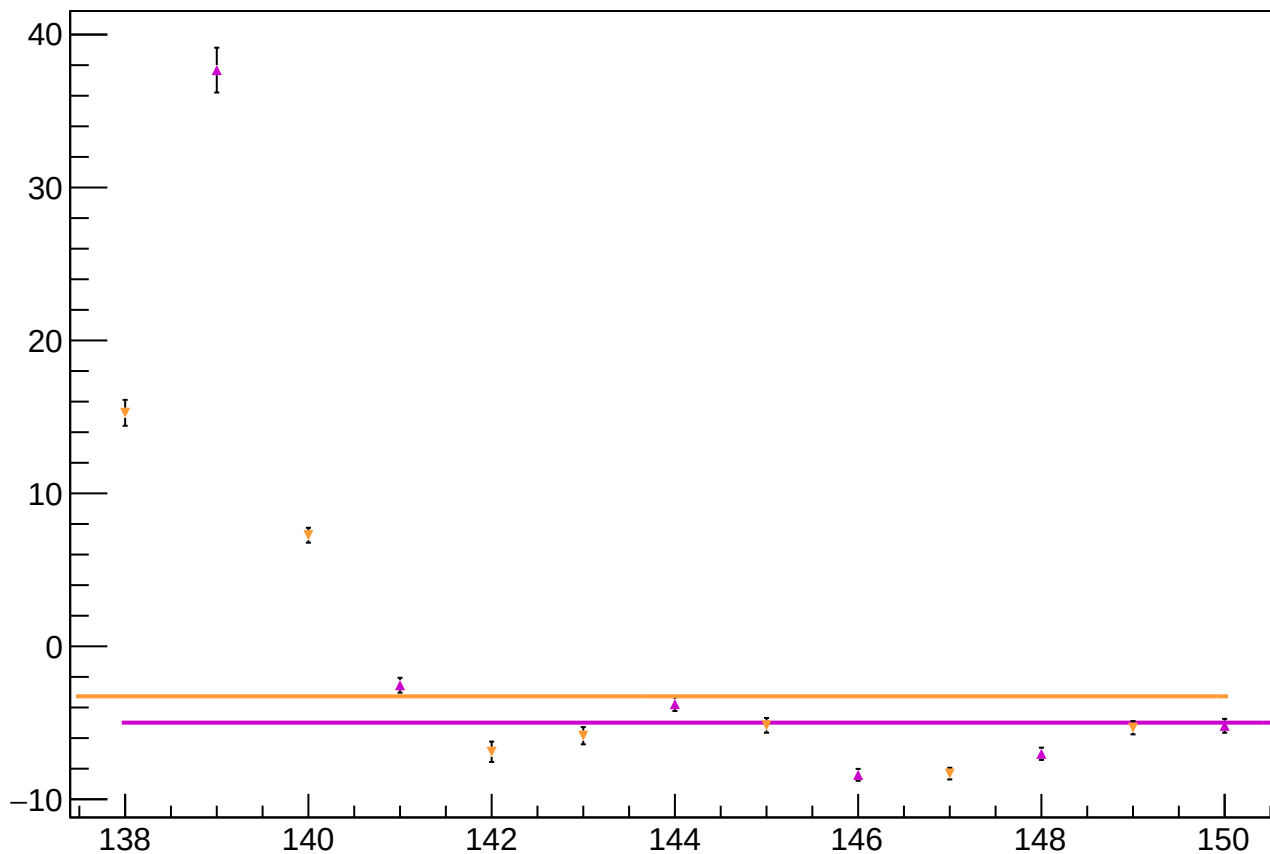
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -8.997+/-0.282  $\chi^2/\text{NDF}$ :561.2/5

Out: -14.192+/-0.275  $\chi^2/\text{NDF}$ :2170.3/6

All: -11.665+/-0.197  $\chi^2/\text{NDF}$ : 2905.5/12

reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



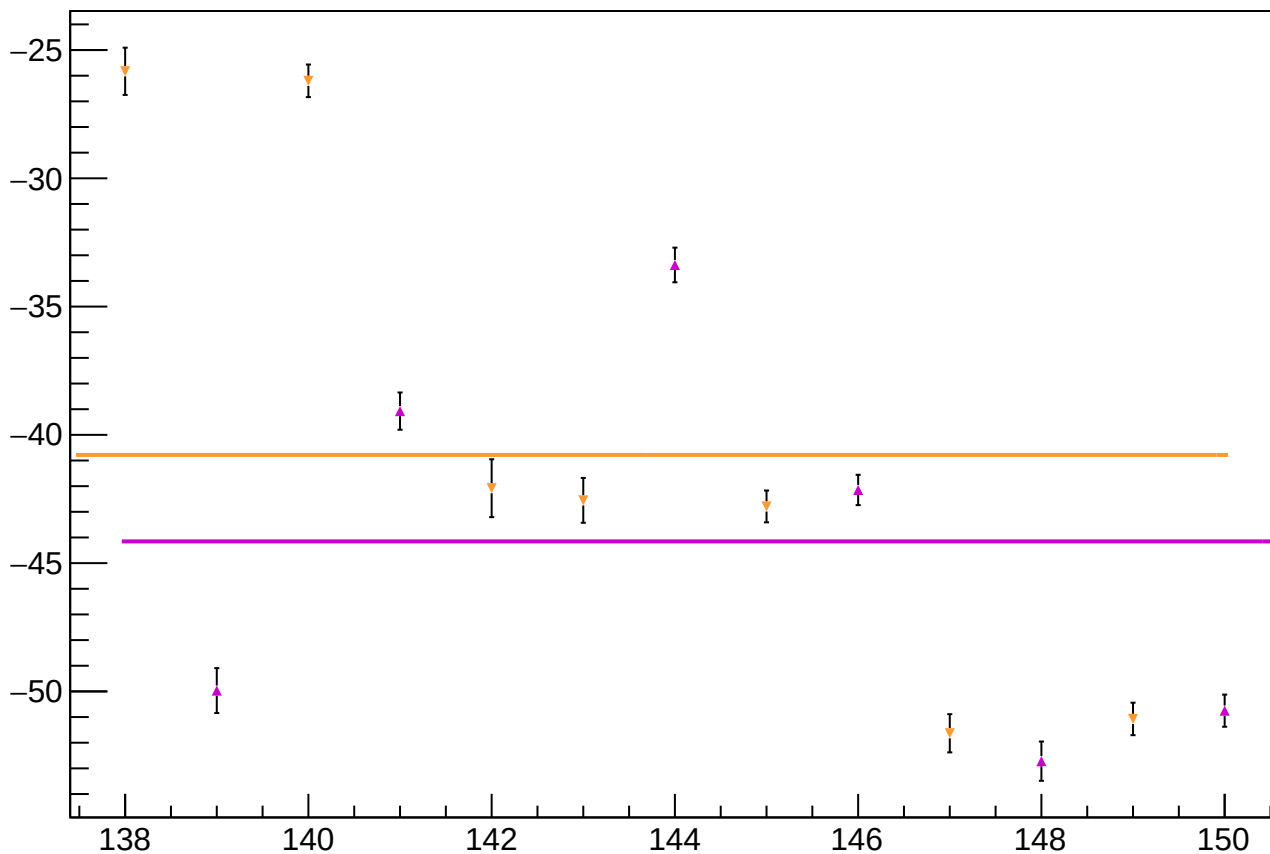
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.269+/-0.191  $\chi^2/\text{NDF}$ :1206.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.990+/-0.192  $\chi^2/\text{NDF}$ :981.6/5

Left: -4.127+/-0.135  $\chi^2/\text{NDF}$ : 2228.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.990+/-0.192  $\chi^2/\text{NDF}$ :981.6/5  
 Out: -3.269+/-0.191  $\chi^2/\text{NDF}$ :1206.8/6

All: -4.127+/-0.135  $\chi^2/\text{NDF}$ : 2228.9/12

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



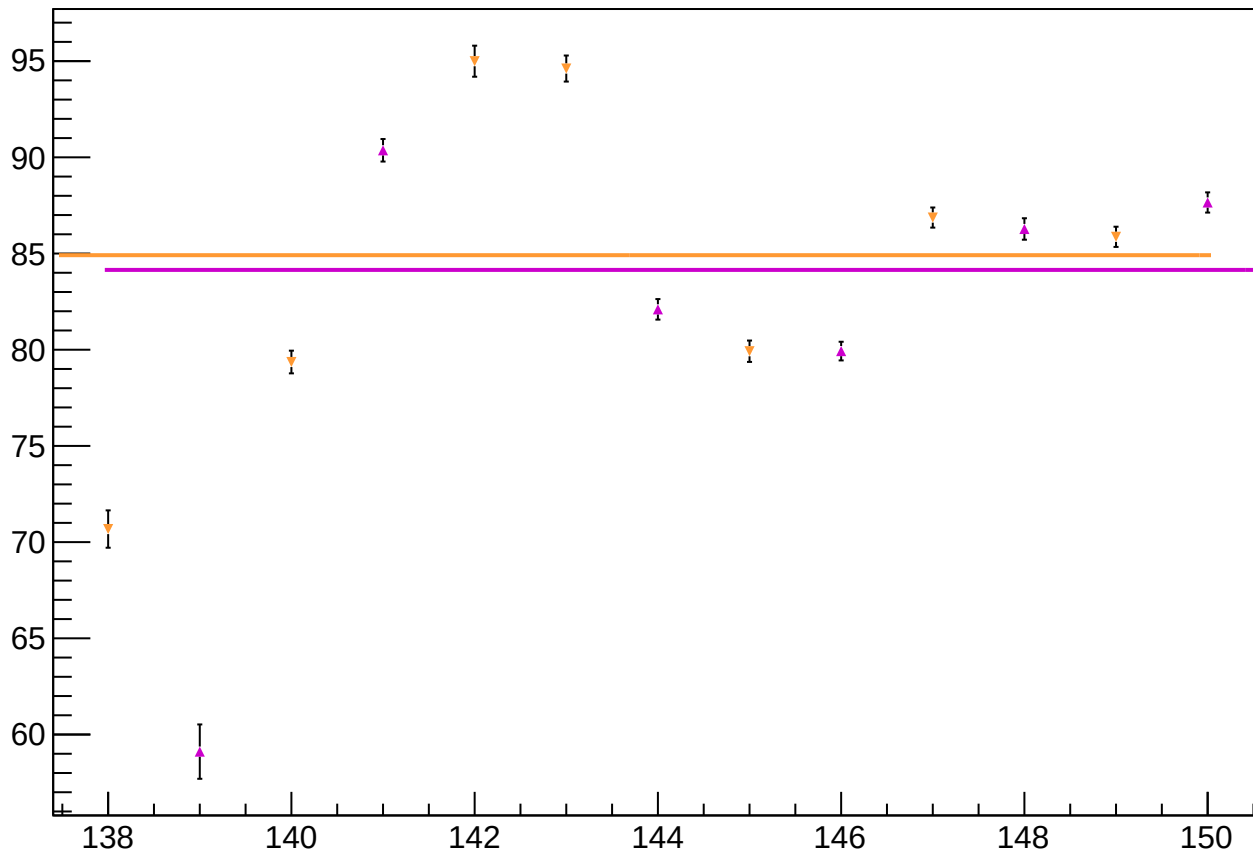
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -40.783+/-0.281  $\chi^2/\text{NDF}$ :1283.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -44.153+/-0.283  $\chi^2/\text{NDF}$ :595.1/5

Left: -42.458+/-0.199  $\chi^2/\text{NDF}$ : 1950.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -44.153+/-0.283  $\chi^2/\text{NDF}$ :595.1/5  
 Out: -40.783+/-0.281  $\chi^2/\text{NDF}$ :1283.9/6

All: -42.458+/-0.199  $\chi^2/\text{NDF}$ : 1950.4/12

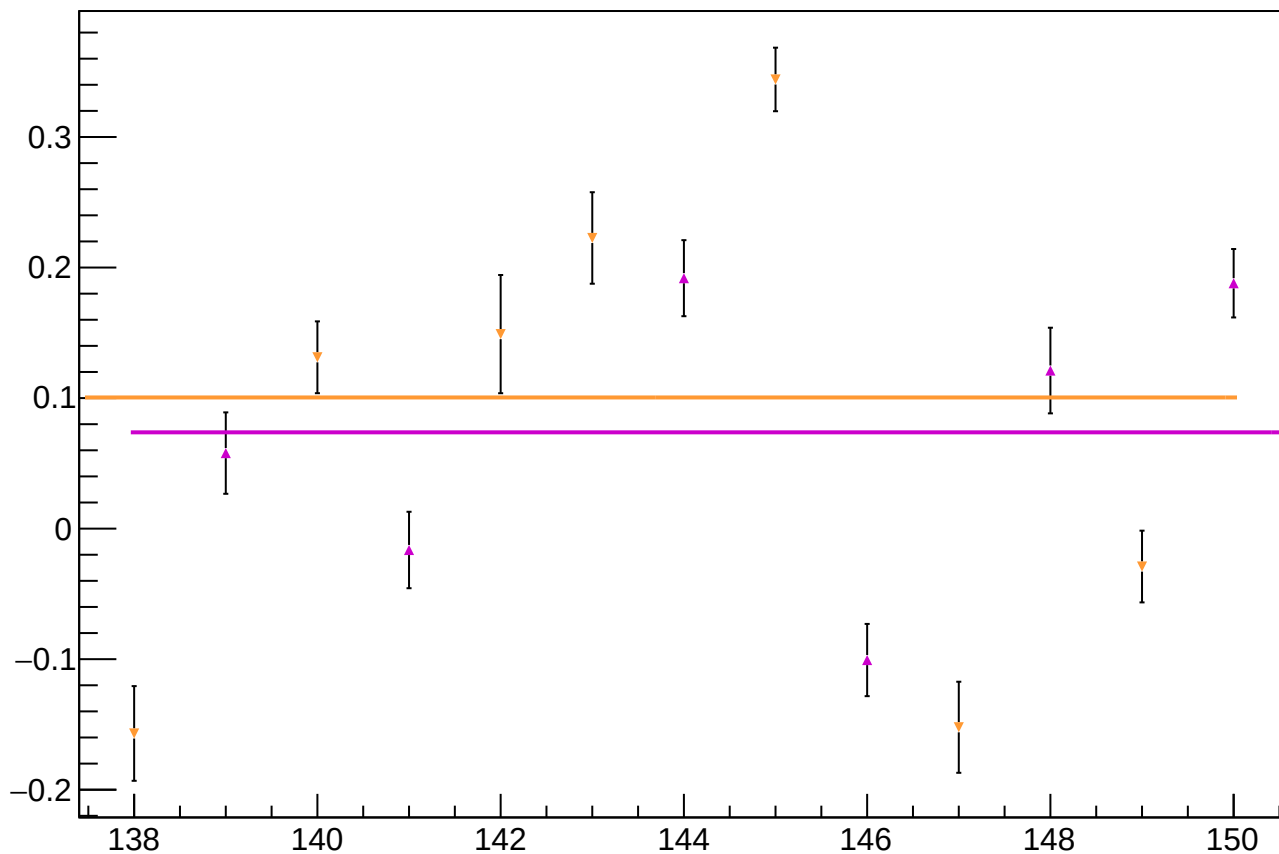
reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 84.914+/-0.235  $\chi^2/\text{NDF}$ : 763.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 84.149+/-0.236  $\chi^2/\text{NDF}$ : 576.4/5

Left: 84.533+/-0.166  $\chi^2/\text{NDF}$ : 1344.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 84.149+/-0.236  $\chi^2/\text{NDF}$ : 576.4/5  
 Out: 84.914+/-0.235  $\chi^2/\text{NDF}$ : 763.0/6  
 All: 84.533+/-0.166  $\chi^2/\text{NDF}$ : 1344.7/12

reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.100 $\pm$ 0.012  $\chi^2$ /NDF:239.8/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.074 $\pm$ 0.012  $\chi^2$ /NDF:87.0/5

Left: 0.087 $\pm$ 0.008  $\chi^2$ /NDF: 329.3/12

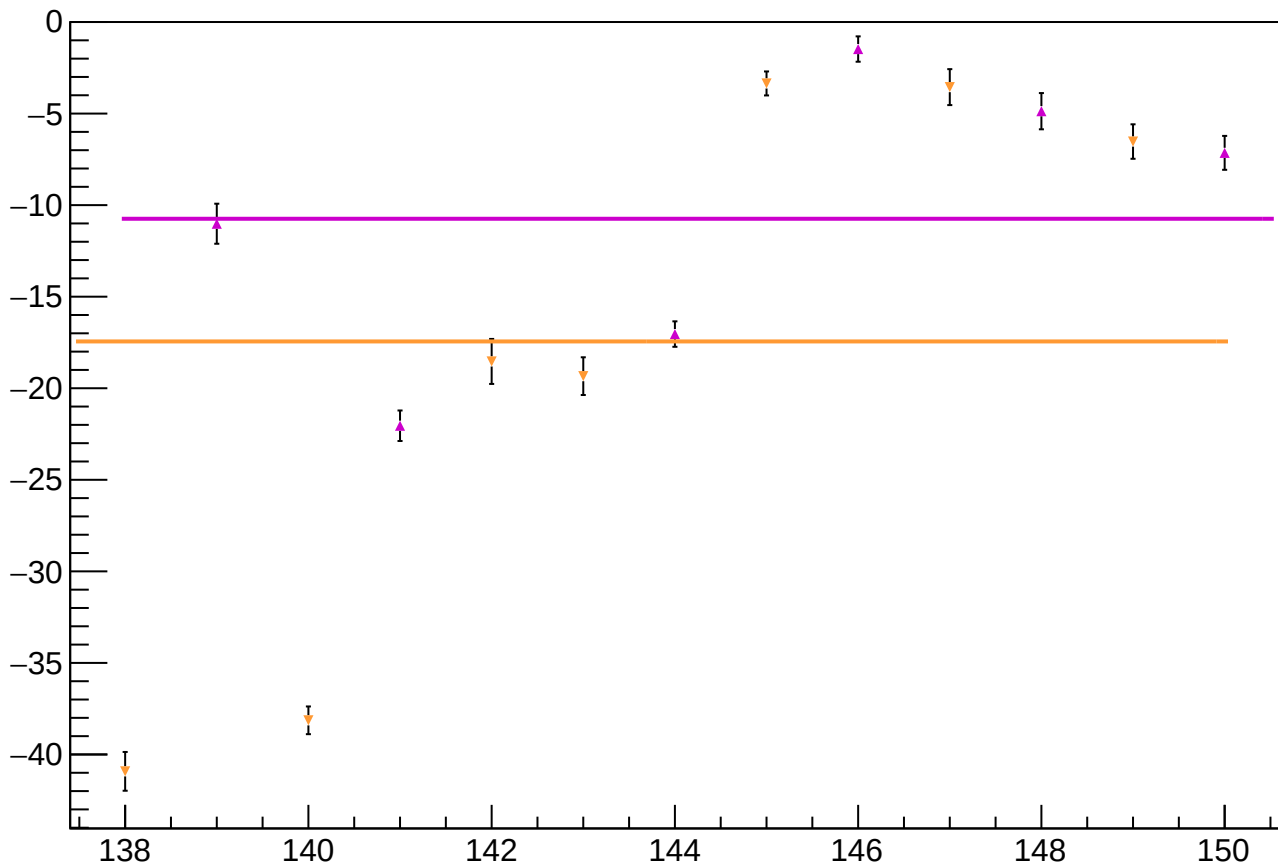
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.074 $\pm$ 0.012  $\chi^2$ /NDF:87.0/5

Out: 0.100 $\pm$ 0.012  $\chi^2$ /NDF:239.8/6

All: 0.087 $\pm$ 0.008  $\chi^2$ /NDF: 329.3/12

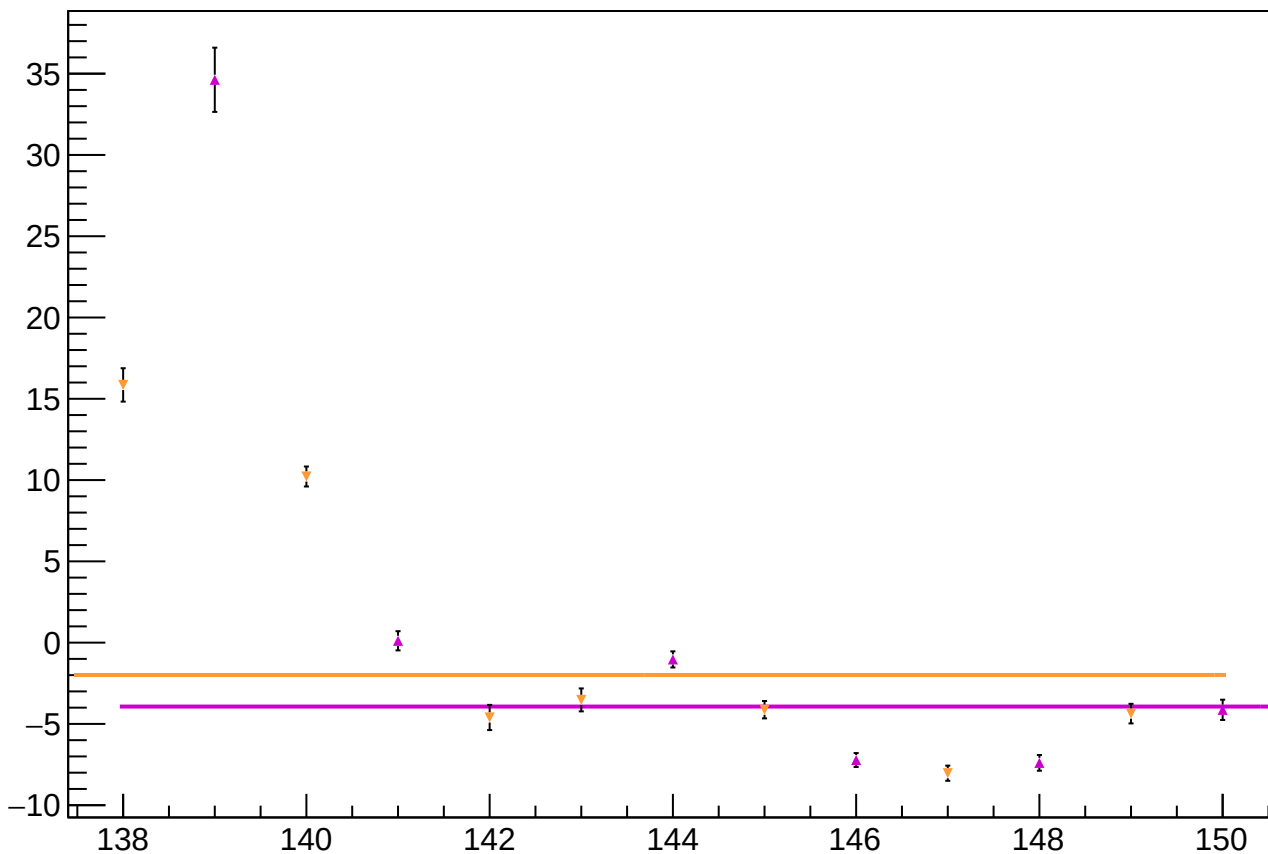
reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -17.444+/-0.338     $\chi^2/\text{NDF}$ :2040.9/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -10.745+/-0.341     $\chi^2/\text{NDF}$ :495.8/5

Left: -14.118+/-0.240     $\chi^2/\text{NDF}$ : 2731.5/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: -10.745+/-0.341     $\chi^2/\text{NDF}$ :495.8/5  
 Out: -17.444+/-0.338     $\chi^2/\text{NDF}$ :2040.9/6  
 All: -14.118+/-0.240     $\chi^2/\text{NDF}$ : 2731.5/12

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.989+/-0.235  $\chi^2/\text{NDF}$ : 912.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -3.932+/-0.227  $\chi^2/\text{NDF}$ : 572.3/5

Left: -2.995+/-0.163  $\chi^2/\text{NDF}$ : 1519.8/12

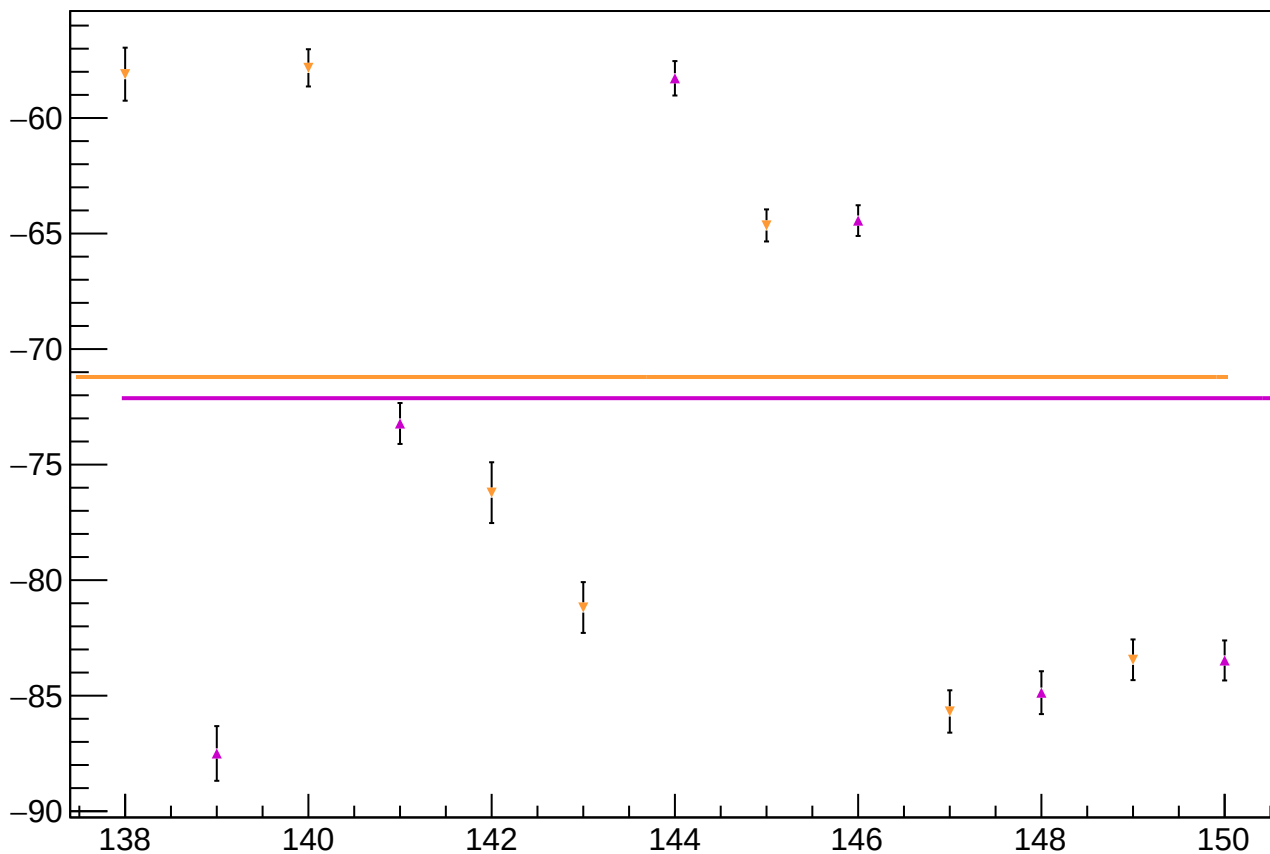
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -3.932+/-0.227  $\chi^2/\text{NDF}$ : 572.3/5

Out: -1.989+/-0.235  $\chi^2/\text{NDF}$ : 912.0/6

All: -2.995+/-0.163  $\chi^2/\text{NDF}$ : 1519.8/12

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -71.208+/-0.348  $\chi^2/\text{NDF}$ :1034.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -72.125+/-0.342  $\chi^2/\text{NDF}$ :1009.9/5

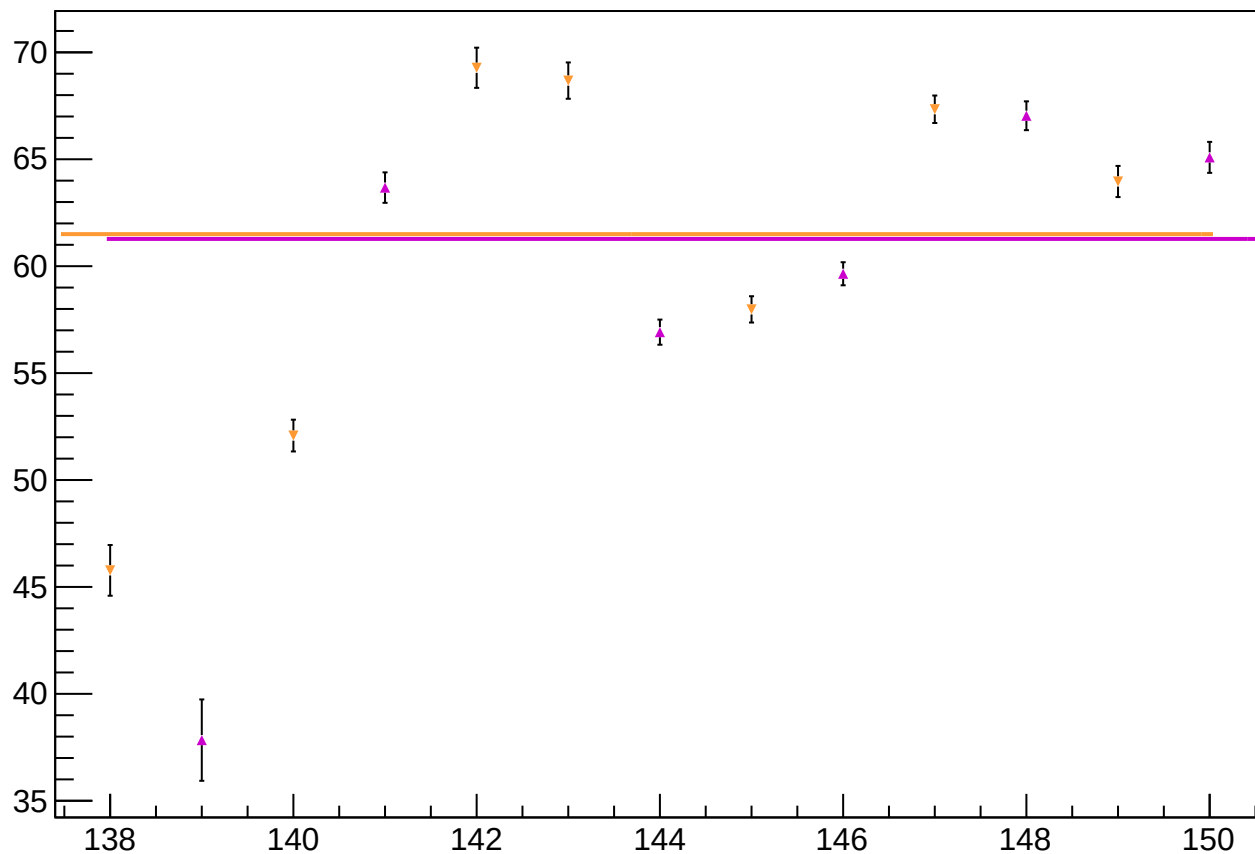
Left: -71.674+/-0.244  $\chi^2/\text{NDF}$ : 2048.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -72.125+/-0.342  $\chi^2/\text{NDF}$ :1009.9/5  
 Out: -71.208+/-0.348  $\chi^2/\text{NDF}$ :1034.8/6

All: -71.674+/-0.244  $\chi^2/\text{NDF}$ : 2048.2/12



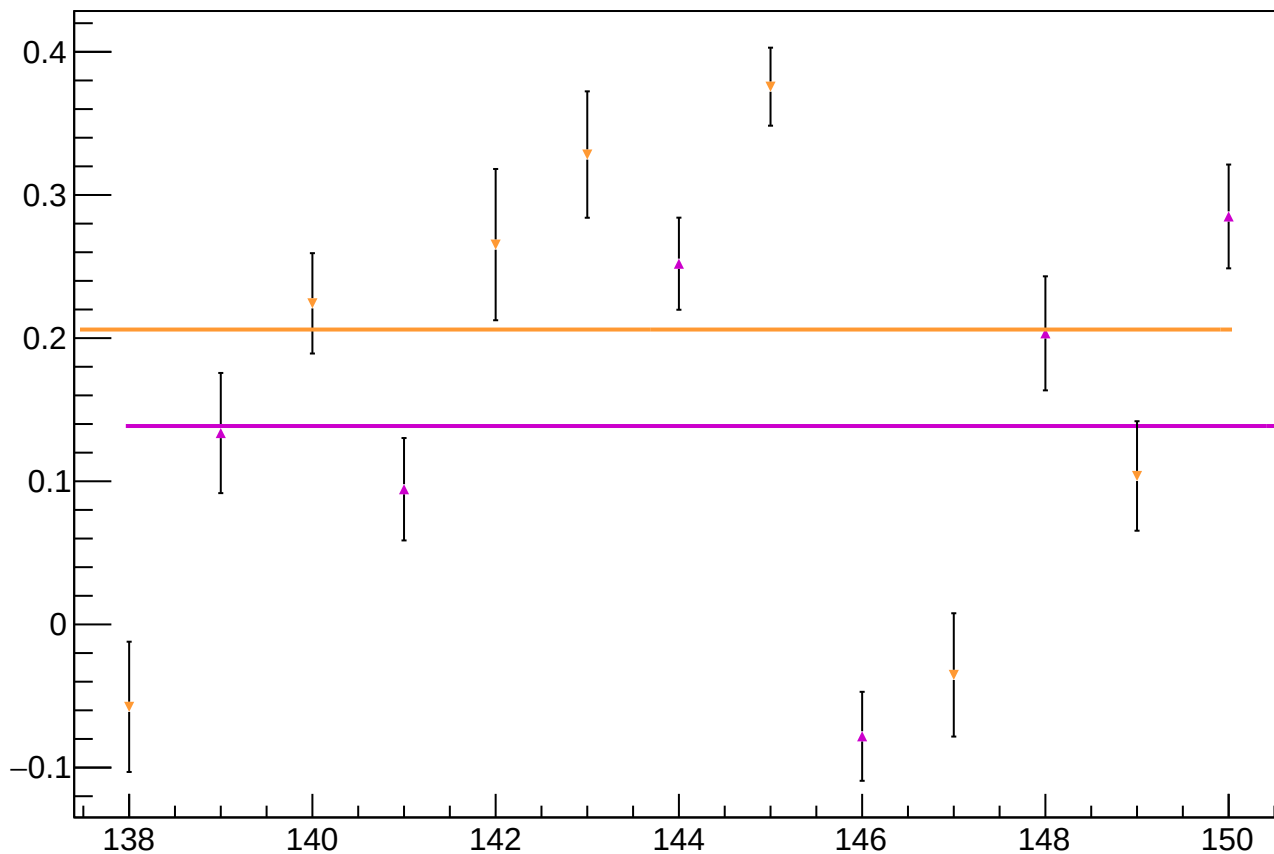
reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 61.499+/-0.289     $\chi^2/\text{NDF}$ :603.5/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 61.275+/-0.281     $\chi^2/\text{NDF}$ :328.0/5

Left: 61.384+/-0.201     $\chi^2/\text{NDF}$ : 931.8/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 61.275+/-0.281     $\chi^2/\text{NDF}$ :328.0/5  
 Out: 61.499+/-0.289     $\chi^2/\text{NDF}$ :603.5/6  
 All: 61.384+/-0.201     $\chi^2/\text{NDF}$ : 931.8/12

reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.206 $\pm$ 0.015  $\chi^2$ /NDF:120.0/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.139 $\pm$ 0.015  $\chi^2$ /NDF:81.6/5

Left: 0.172 $\pm$ 0.010  $\chi^2$ /NDF: 212.4/12

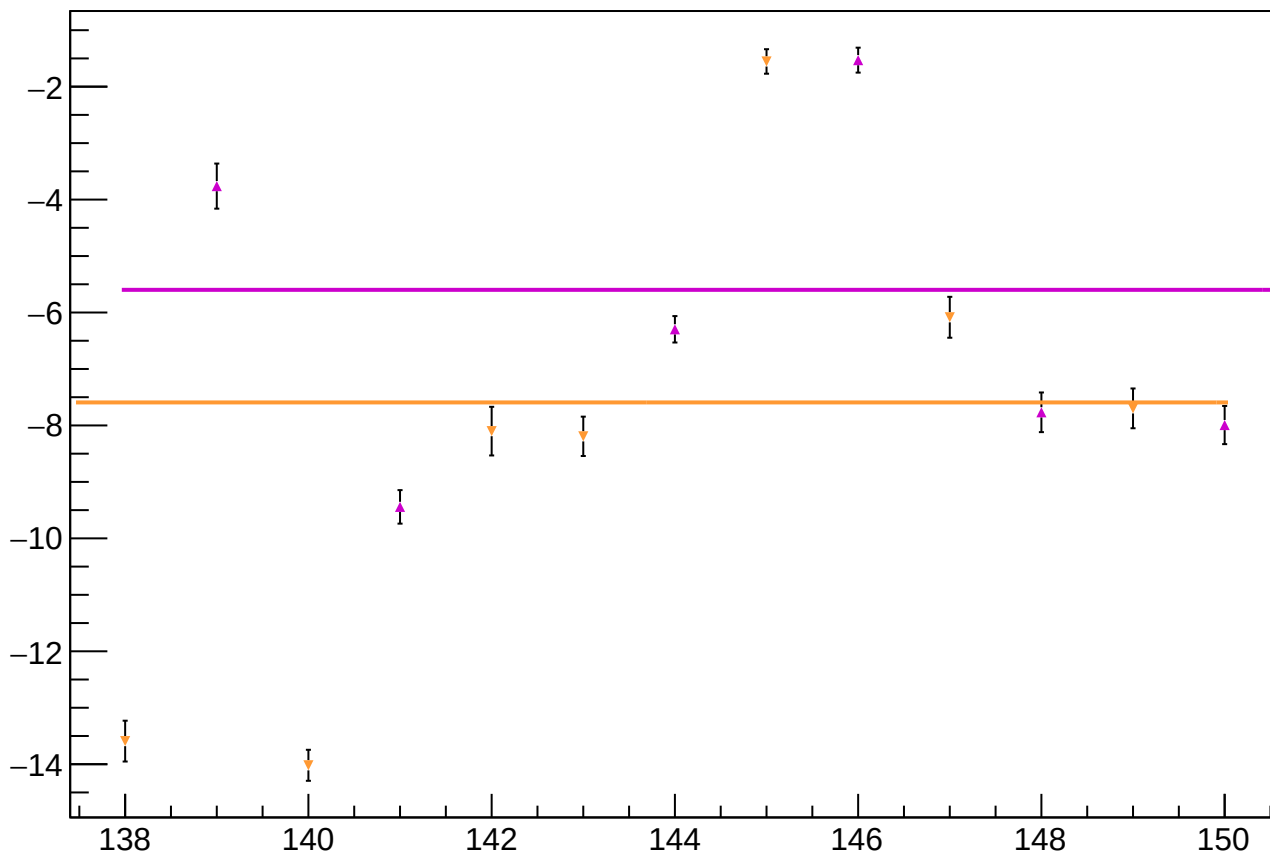
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.139 $\pm$ 0.015  $\chi^2$ /NDF:81.6/5

Out: 0.206 $\pm$ 0.015  $\chi^2$ /NDF:120.0/6

All: 0.172 $\pm$ 0.010  $\chi^2$ /NDF: 212.4/12

reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



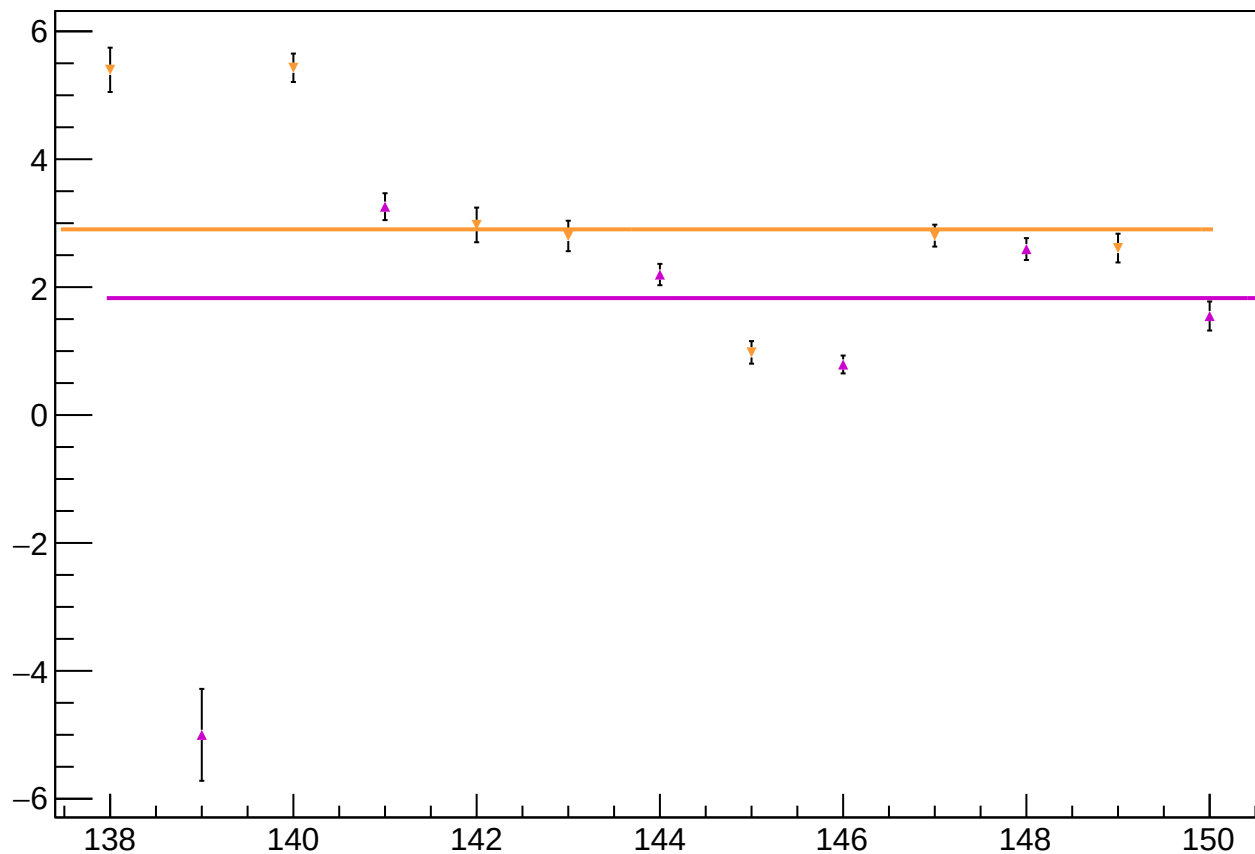
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.592+/-0.118  $\chi^2/\text{NDF}$ :1619.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.598+/-0.117  $\chi^2/\text{NDF}$ :625.2/5

Left: -6.583+/-0.083  $\chi^2/\text{NDF}$ : 2388.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -5.598+/-0.117  $\chi^2/\text{NDF}$ :625.2/5  
 Out: -7.592+/-0.118  $\chi^2/\text{NDF}$ :1619.0/6

All: -6.583+/-0.083  $\chi^2/\text{NDF}$ : 2388.0/12

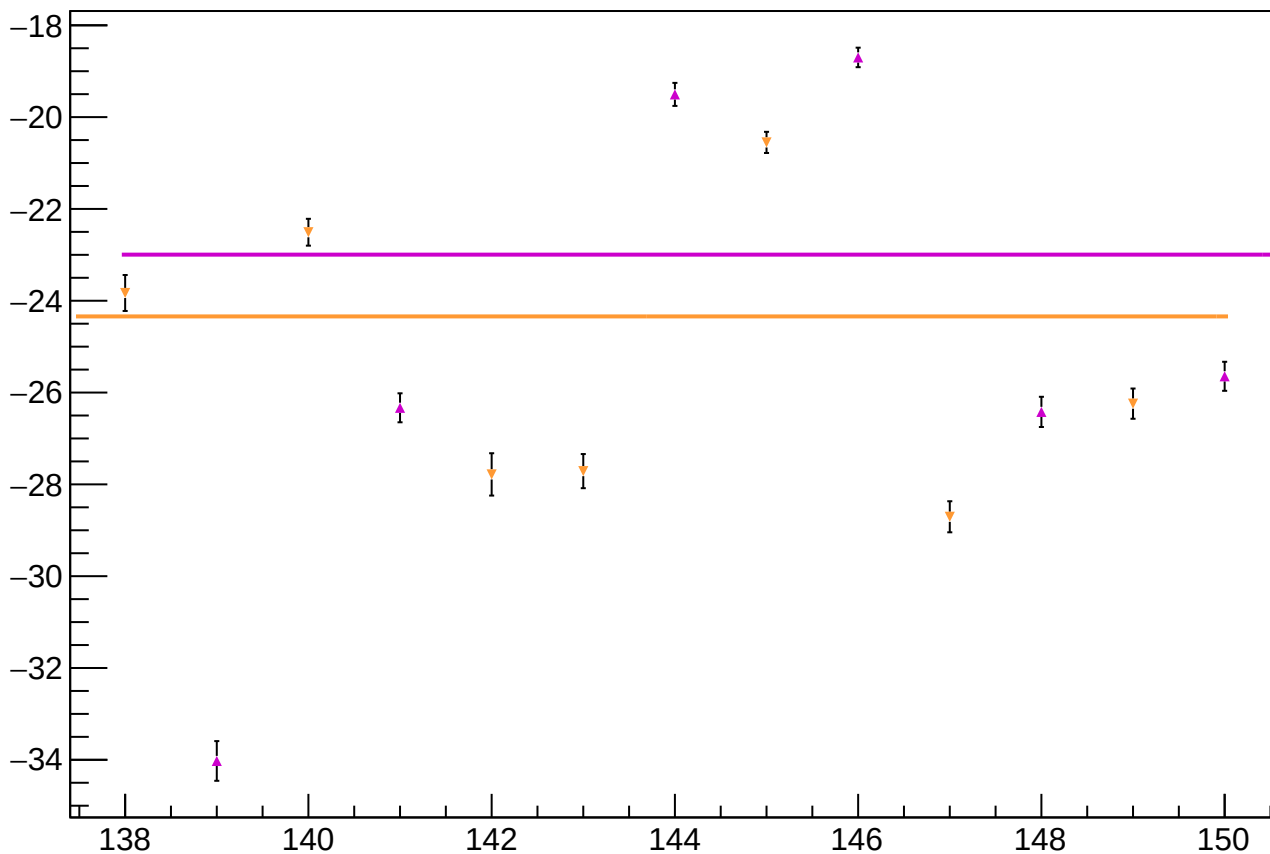
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 2.904+/-0.083  $\chi^2/\text{NDF}$ :302.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.828+/-0.078  $\chi^2/\text{NDF}$ :218.4/5

Left: 2.332+/-0.057  $\chi^2/\text{NDF}$ : 610.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 1.828+/-0.078  $\chi^2/\text{NDF}$ :218.4/5  
 Out: 2.904+/-0.083  $\chi^2/\text{NDF}$ :302.3/6  
 All: 2.332+/-0.057  $\chi^2/\text{NDF}$ : 610.3/12

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -24.342+/-0.122  $\chi^2/\text{NDF}$ :649.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -22.996+/-0.117  $\chi^2/\text{NDF}$ :1543.1/5

Left: -23.641+/-0.085  $\chi^2/\text{NDF}$ : 2255.6/12

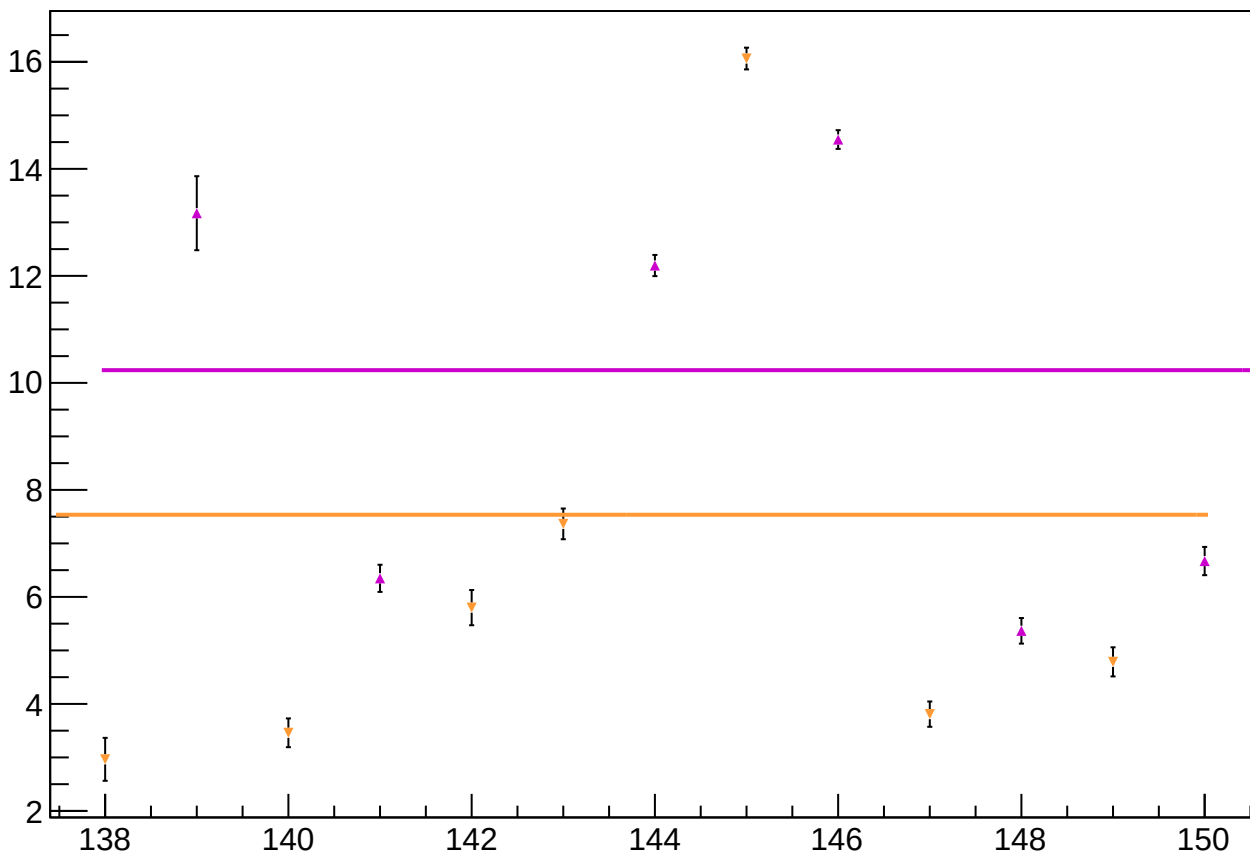
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.996+/-0.117  $\chi^2/\text{NDF}$ :1543.1/5

Out: -24.342+/-0.122  $\chi^2/\text{NDF}$ :649.4/6

All: -23.641+/-0.085  $\chi^2/\text{NDF}$ : 2255.6/12

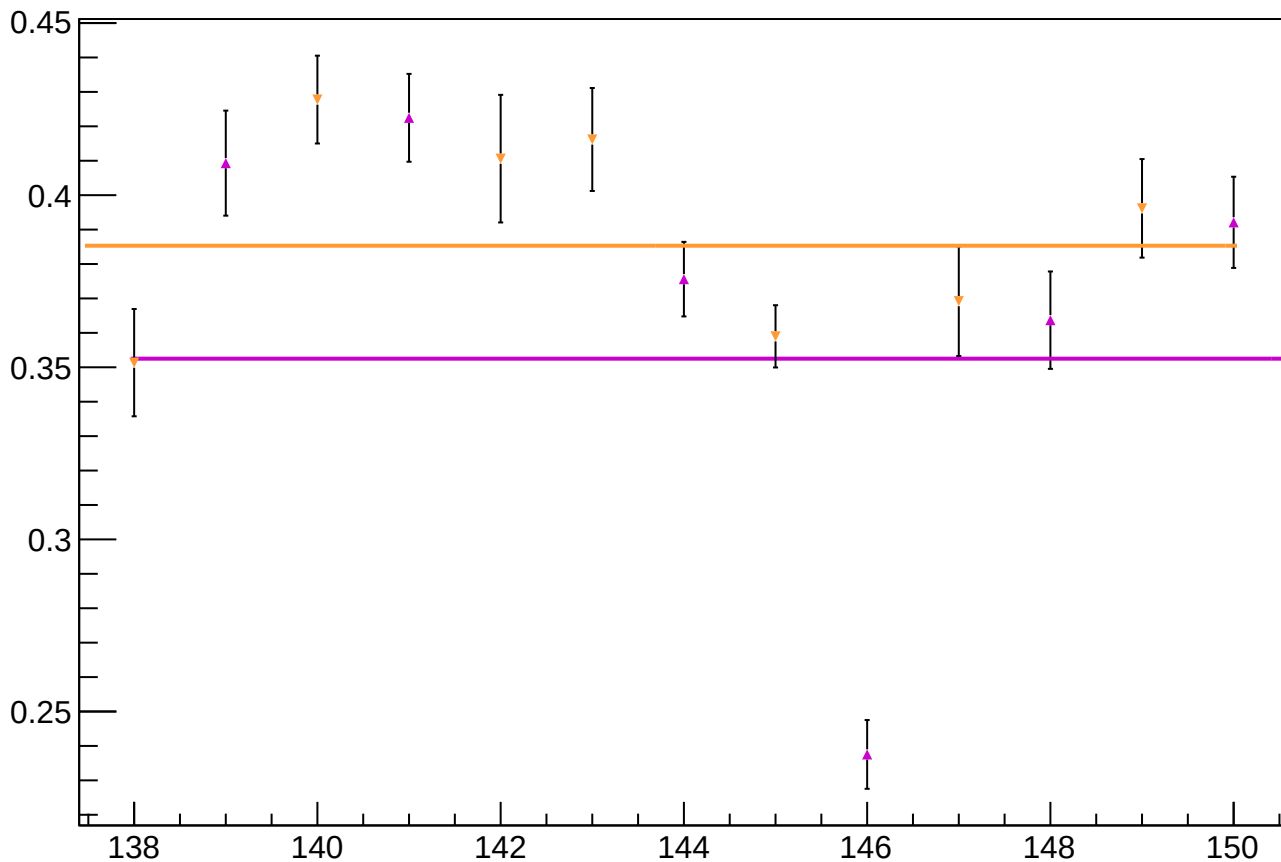
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.535+/-0.102  $\chi^2/\text{NDF}$ :2498.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 10.238+/-0.096  $\chi^2/\text{NDF}$ :1556.5/5

Left: 8.957+/-0.070  $\chi^2/\text{NDF}$ : 4427.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 10.238+/-0.096  $\chi^2/\text{NDF}$ :1556.5/5  
 Out: 7.535+/-0.102  $\chi^2/\text{NDF}$ :2498.0/6  
 All: 8.957+/-0.070  $\chi^2/\text{NDF}$ : 4427.1/12

reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.385+/-0.005  $\chi^2/\text{NDF}$ :32.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.353+/-0.005  $\chi^2/\text{NDF}$ :190.5/5

Left: 0.369+/-0.004  $\chi^2/\text{NDF}$ : 243.7/12

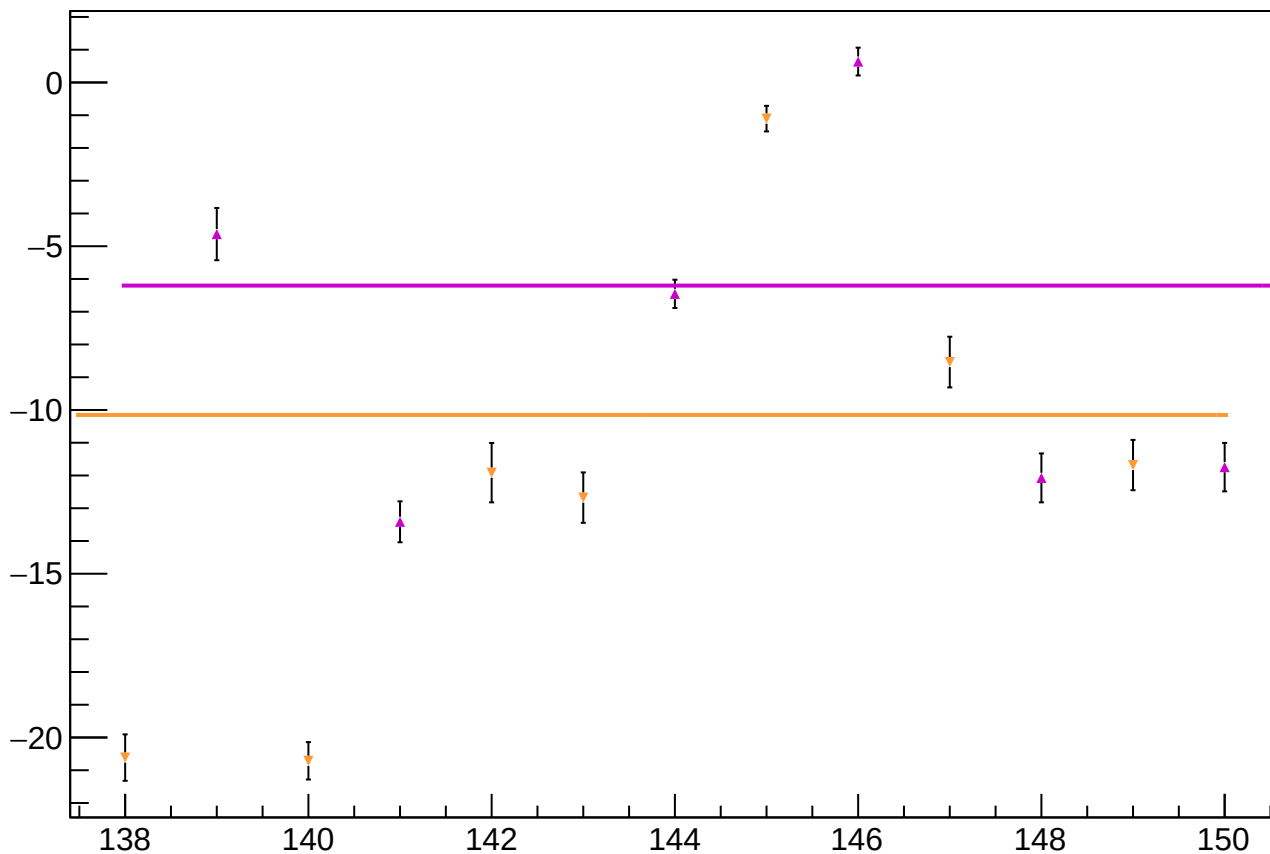
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.353+/-0.005  $\chi^2/\text{NDF}$ :190.5/5

Out: 0.385+/-0.005  $\chi^2/\text{NDF}$ :32.0/6

All: 0.369+/-0.004  $\chi^2/\text{NDF}$ : 243.7/12

reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.152+/-0.236  $\chi^2/\text{NDF}$ :1120.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -6.202+/-0.231  $\chi^2/\text{NDF}$ :515.4/5

Left: -8.136+/-0.165  $\chi^2/\text{NDF}$ : 1778.4/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

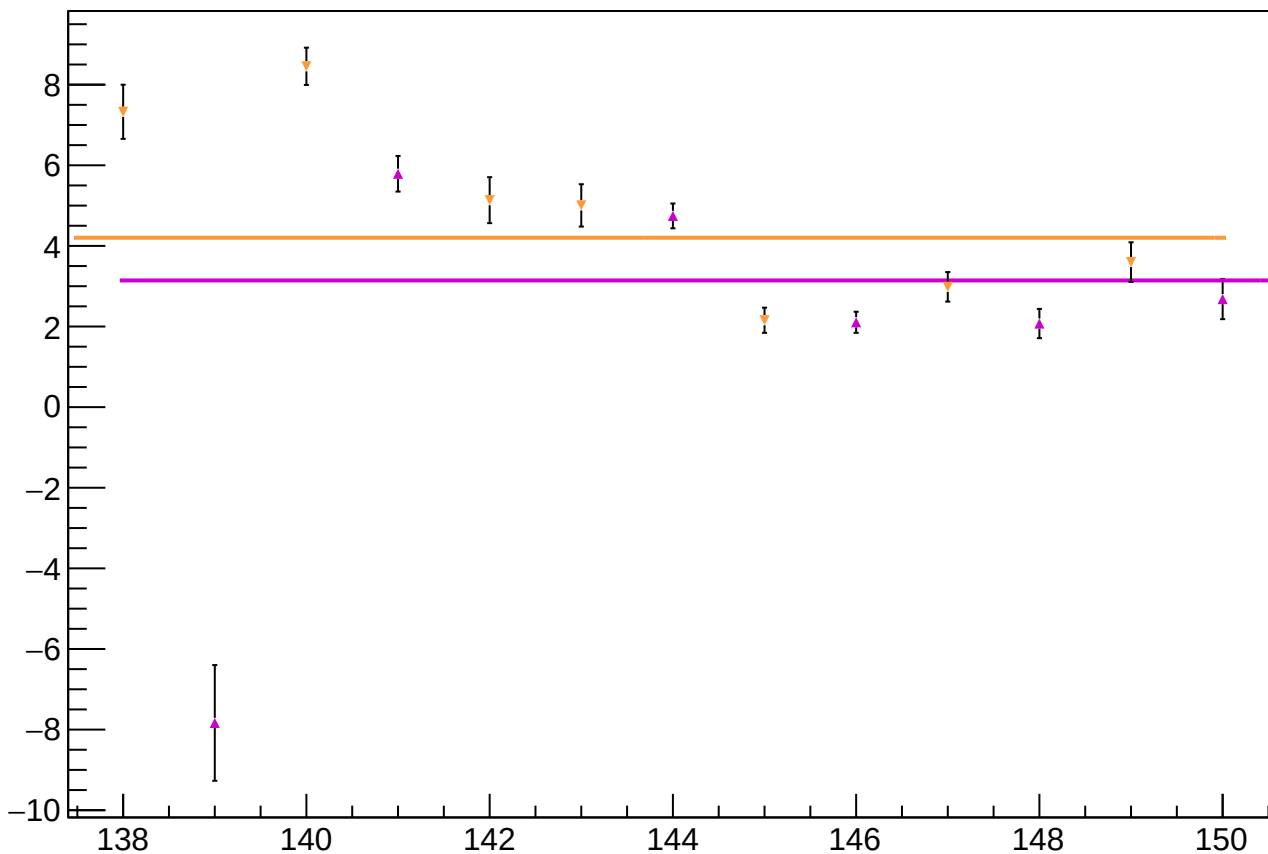
In: -6.202+/-0.231  $\chi^2/\text{NDF}$ :515.4/5

Out: -10.152+/-0.236  $\chi^2/\text{NDF}$ :1120.4/6

All: -8.136+/-0.165  $\chi^2/\text{NDF}$ : 1778.4/12



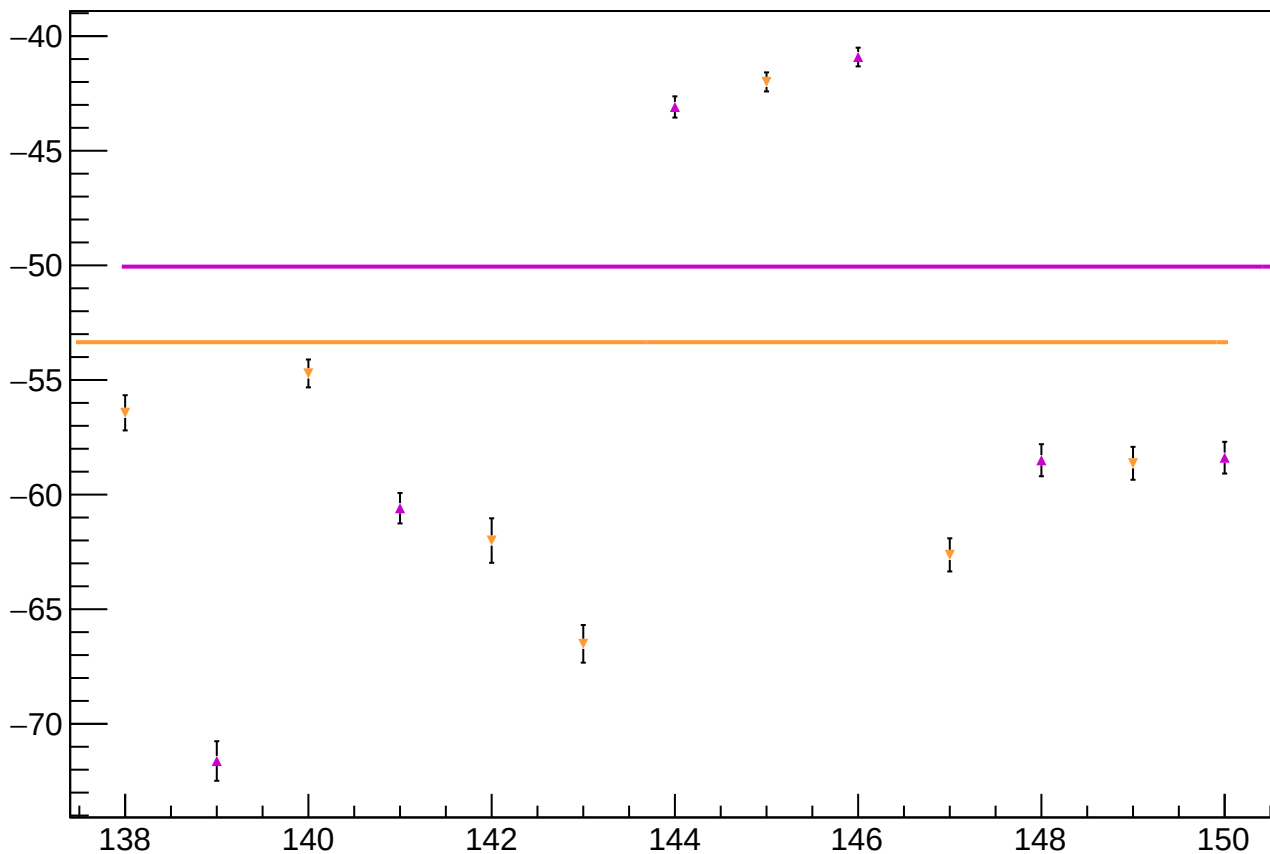
reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.202 $\pm$ 0.168  $\chi^2$ /NDF:166.9/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 3.143 $\pm$ 0.154  $\chi^2$ /NDF:146.6/5

Left: 3.626 $\pm$ 0.113  $\chi^2$ /NDF: 335.1/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 3.143 $\pm$ 0.154  $\chi^2$ /NDF:146.6/5  
 Out: 4.202 $\pm$ 0.168  $\chi^2$ /NDF:166.9/6  
 All: 3.626 $\pm$ 0.113  $\chi^2$ /NDF: 335.1/12

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



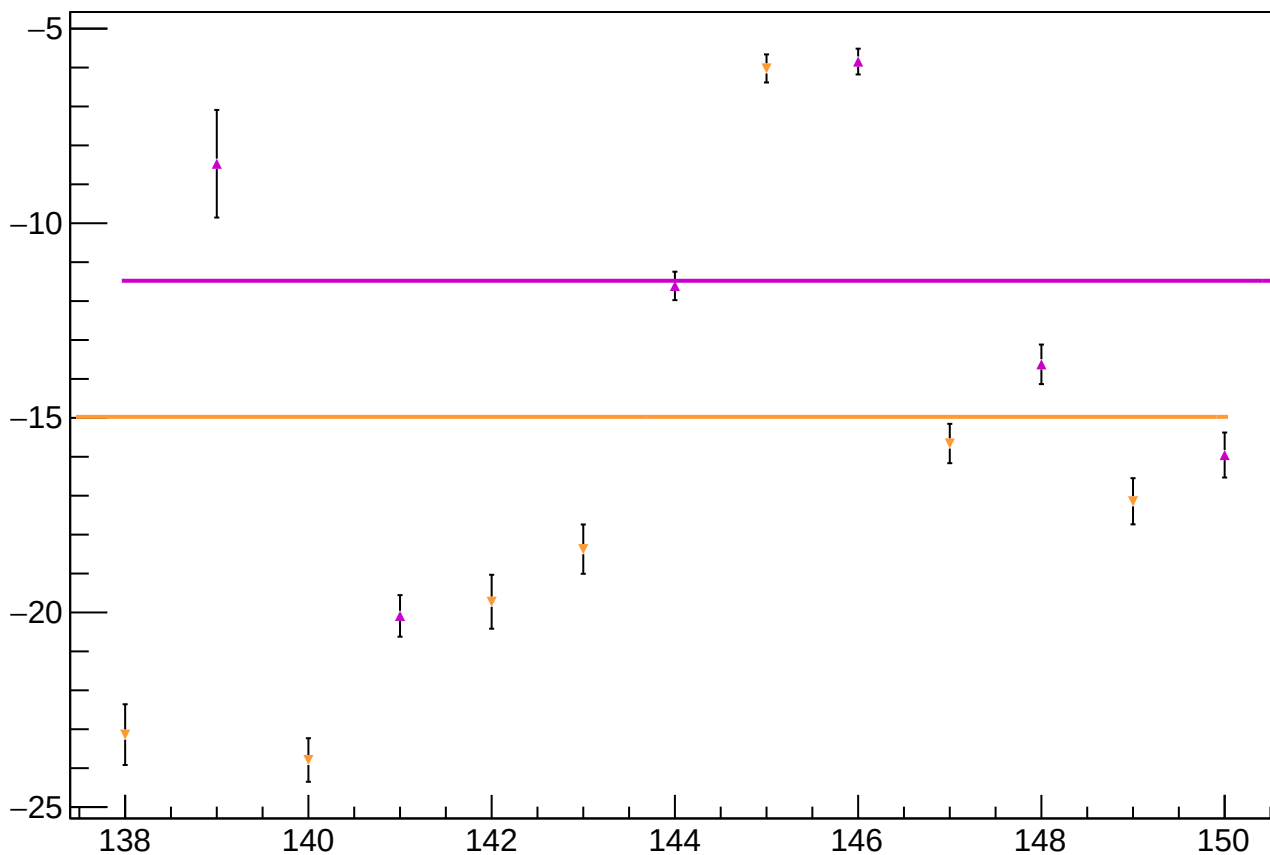
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -53.351+/-0.246  $\chi^2/\text{NDF}$ :1321.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -50.055+/-0.233  $\chi^2/\text{NDF}$ :1895.1/5

Left: -51.617+/-0.169  $\chi^2/\text{NDF}$ : 3311.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -50.055+/-0.233  $\chi^2/\text{NDF}$ :1895.1/5  
 Out: -53.351+/-0.246  $\chi^2/\text{NDF}$ :1321.9/6

All: -51.617+/-0.169  $\chi^2/\text{NDF}$ : 3311.8/12

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



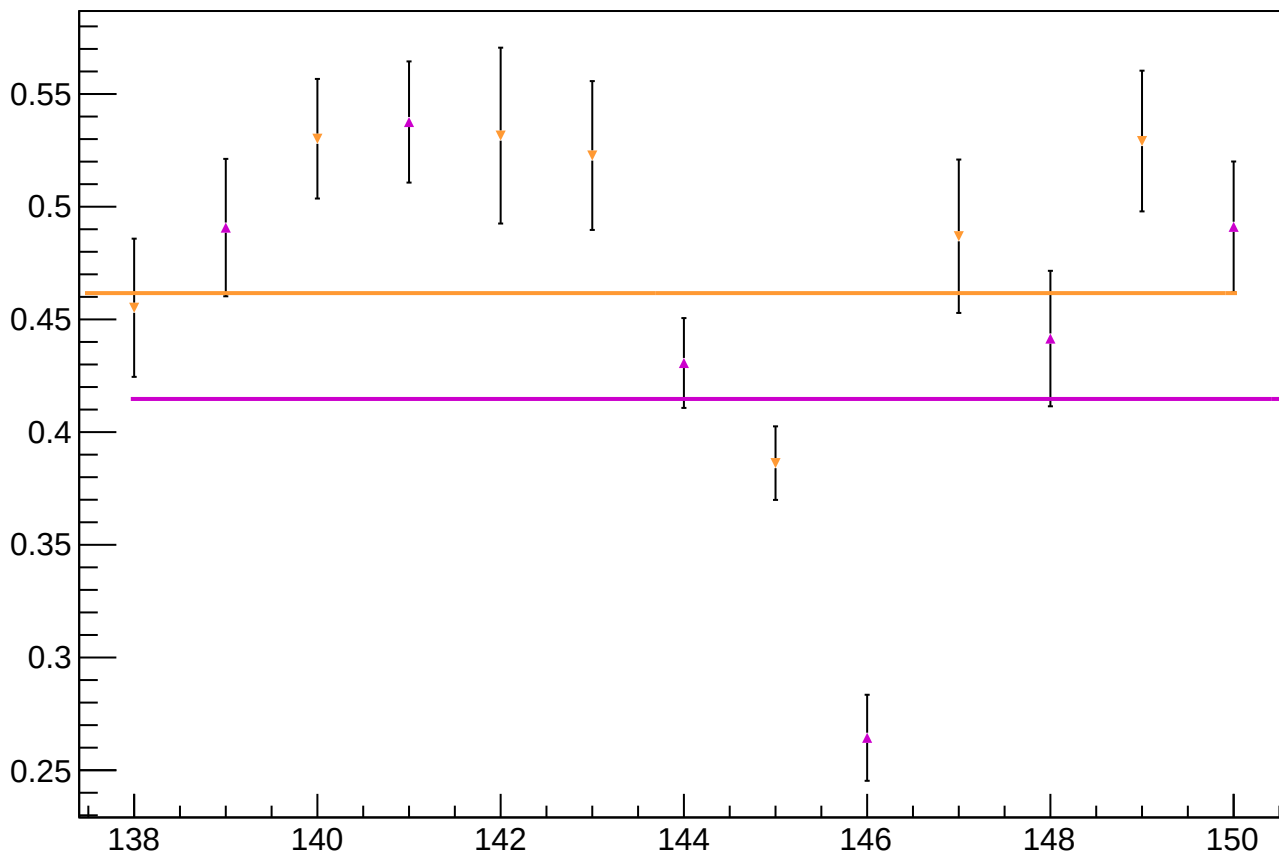
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -14.974+/-0.205  $\chi^2/\text{NDF}$ :1063.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -11.478+/-0.191  $\chi^2/\text{NDF}$ :632.1/5

Left: -13.101+/-0.140  $\chi^2/\text{NDF}$ : 1852.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -11.478+/-0.191  $\chi^2/\text{NDF}$ :632.1/5  
 Out: -14.974+/-0.205  $\chi^2/\text{NDF}$ :1063.8/6

All: -13.101+/-0.140  $\chi^2/\text{NDF}$ : 1852.0/12

reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.462 $\pm$ 0.010  $\chi^2$ /NDF:39.9/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.415 $\pm$ 0.010  $\chi^2$ /NDF:97.5/5

Left: 0.438 $\pm$ 0.007  $\chi^2$ /NDF: 148.3/12

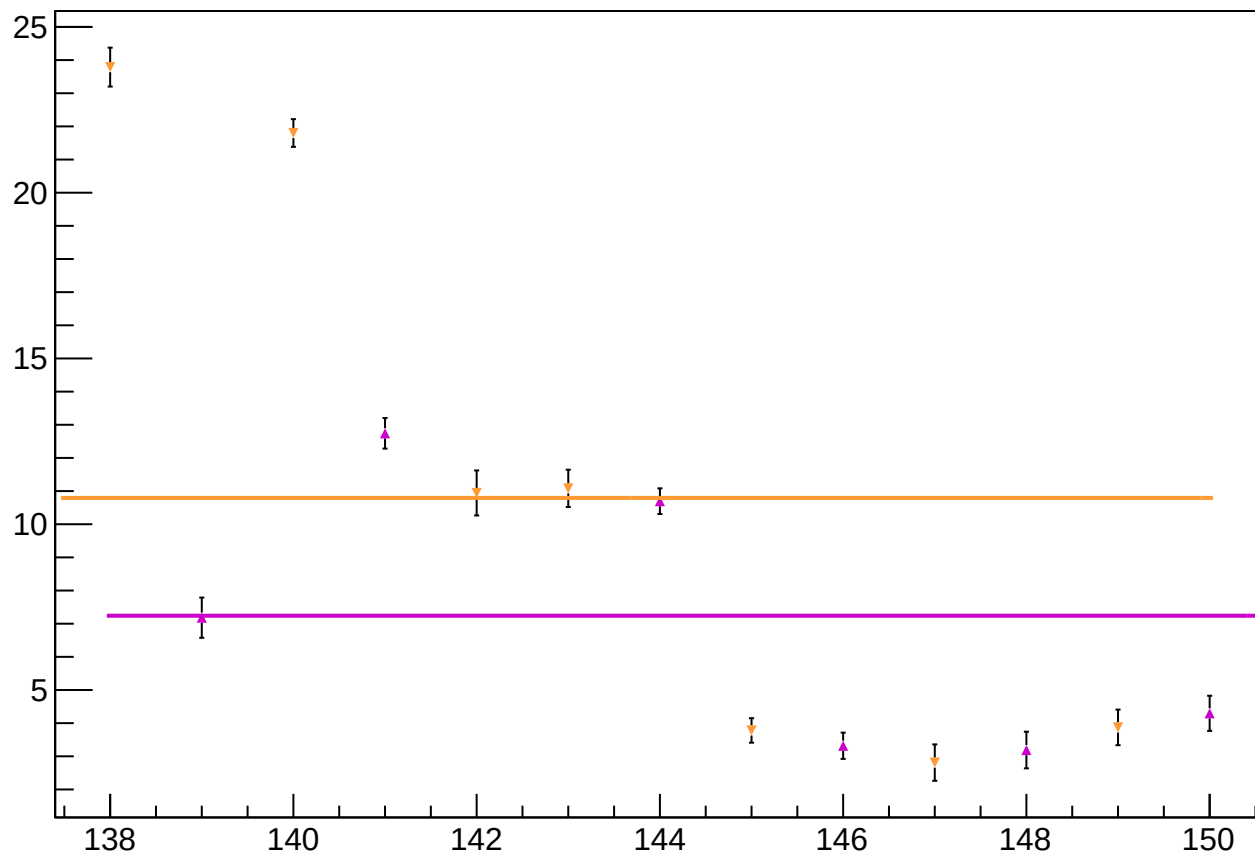
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.415 $\pm$ 0.010  $\chi^2$ /NDF:97.5/5

Out: 0.462 $\pm$ 0.010  $\chi^2$ /NDF:39.9/6

All: 0.438 $\pm$ 0.007  $\chi^2$ /NDF: 148.3/12

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 10.794+/-0.189  $\chi^2/\text{NDF}$ :1921.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 7.240+/-0.191  $\chi^2/\text{NDF}$ :405.0/5

Left: 9.041+/-0.134  $\chi^2/\text{NDF}$ : 2501.1/12

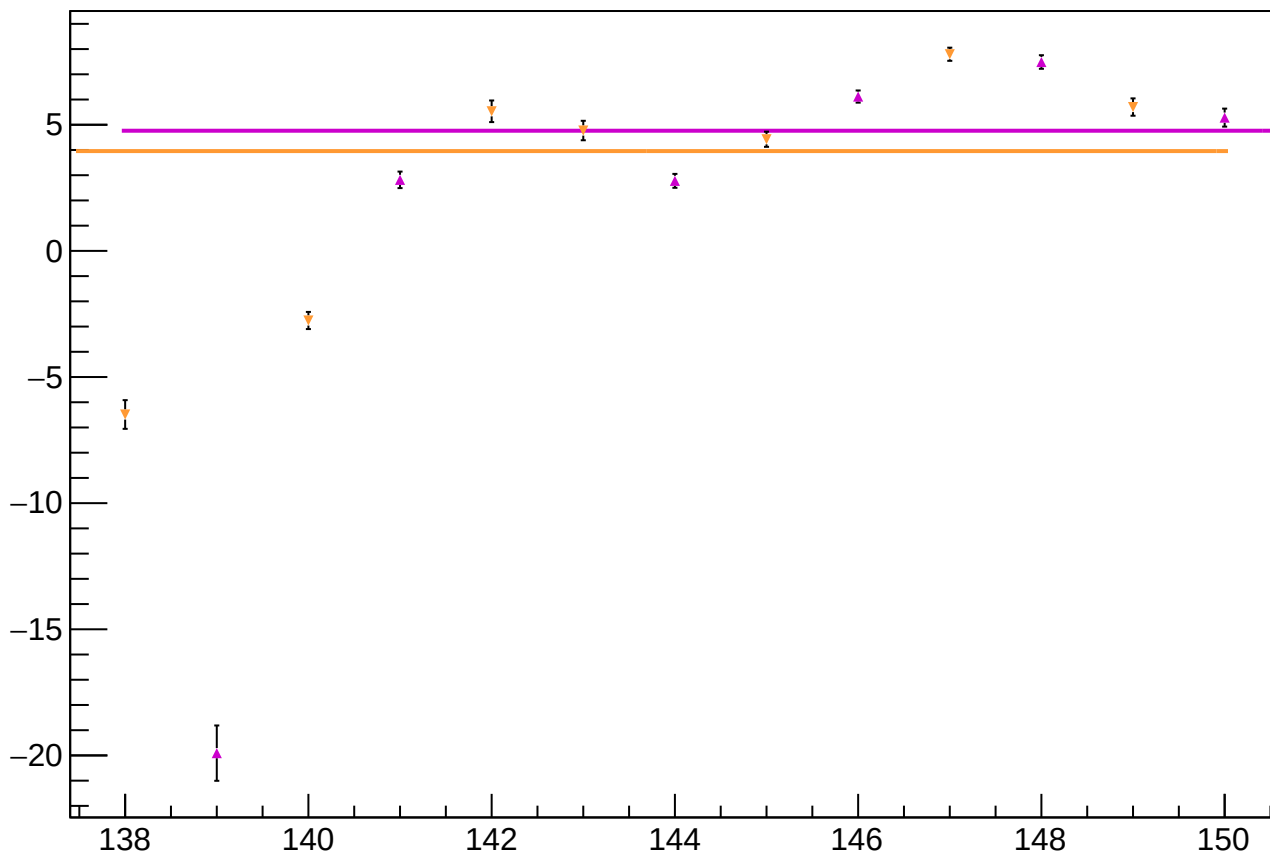
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 7.240+/-0.191  $\chi^2/\text{NDF}$ :405.0/5

Out: 10.794+/-0.189  $\chi^2/\text{NDF}$ :1921.2/6

All: 9.041+/-0.134  $\chi^2/\text{NDF}$ : 2501.1/12

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.957 $\pm$ 0.131  $\chi^2$ /NDF:990.6/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 4.763 $\pm$ 0.127  $\chi^2$ /NDF:729.5/5

Left: 4.373 $\pm$ 0.091  $\chi^2$ /NDF: 1739.7/12

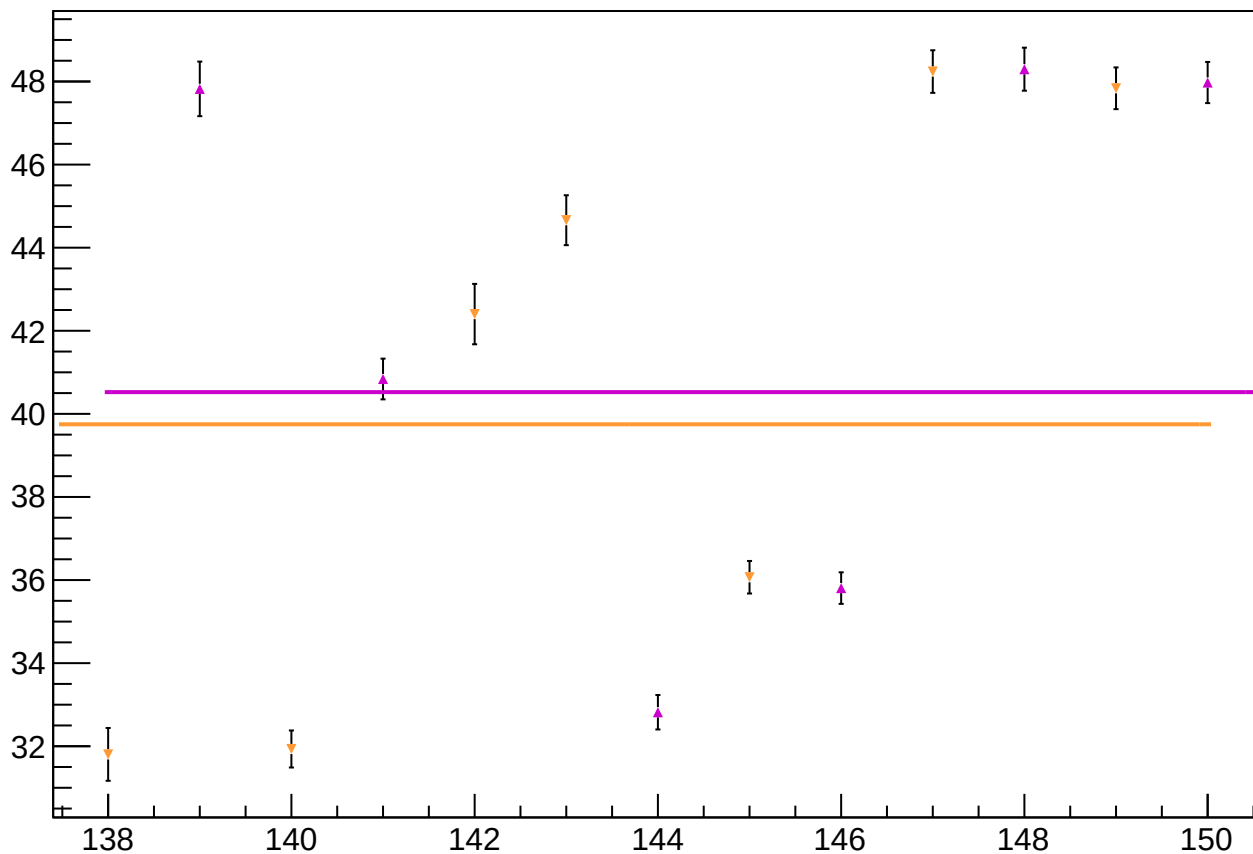
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 4.763 $\pm$ 0.127  $\chi^2$ /NDF:729.5/5

Out: 3.957 $\pm$ 0.131  $\chi^2$ /NDF:990.6/6

All: 4.373 $\pm$ 0.091  $\chi^2$ /NDF: 1739.7/12

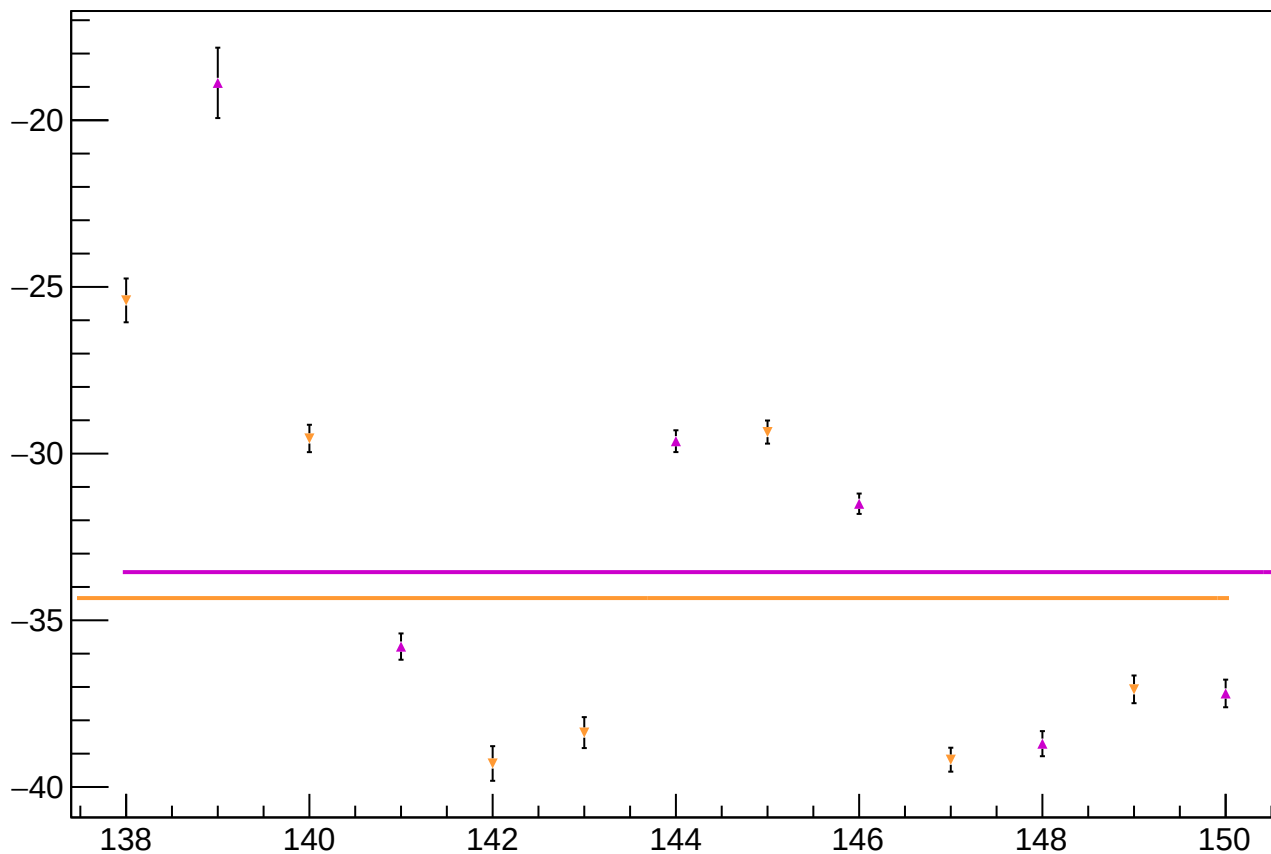
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 39.749+/-0.194  $\chi^2/\text{NDF}$ :1166.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 40.523+/-0.192  $\chi^2/\text{NDF}$ :1075.1/5

Left: 40.140+/-0.137  $\chi^2/\text{NDF}$ : 2249.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 40.523+/-0.192  $\chi^2/\text{NDF}$ :1075.1/5  
 Out: 39.749+/-0.194  $\chi^2/\text{NDF}$ :1166.2/6  
 All: 40.140+/-0.137  $\chi^2/\text{NDF}$ : 2249.3/12

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -34.333+/-0.161  $\chi^2/\text{NDF}$ : 919.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -33.555+/-0.158  $\chi^2/\text{NDF}$ : 678.8/5

Left: -33.935+/-0.113  $\chi^2/\text{NDF}$ : 1610.5/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

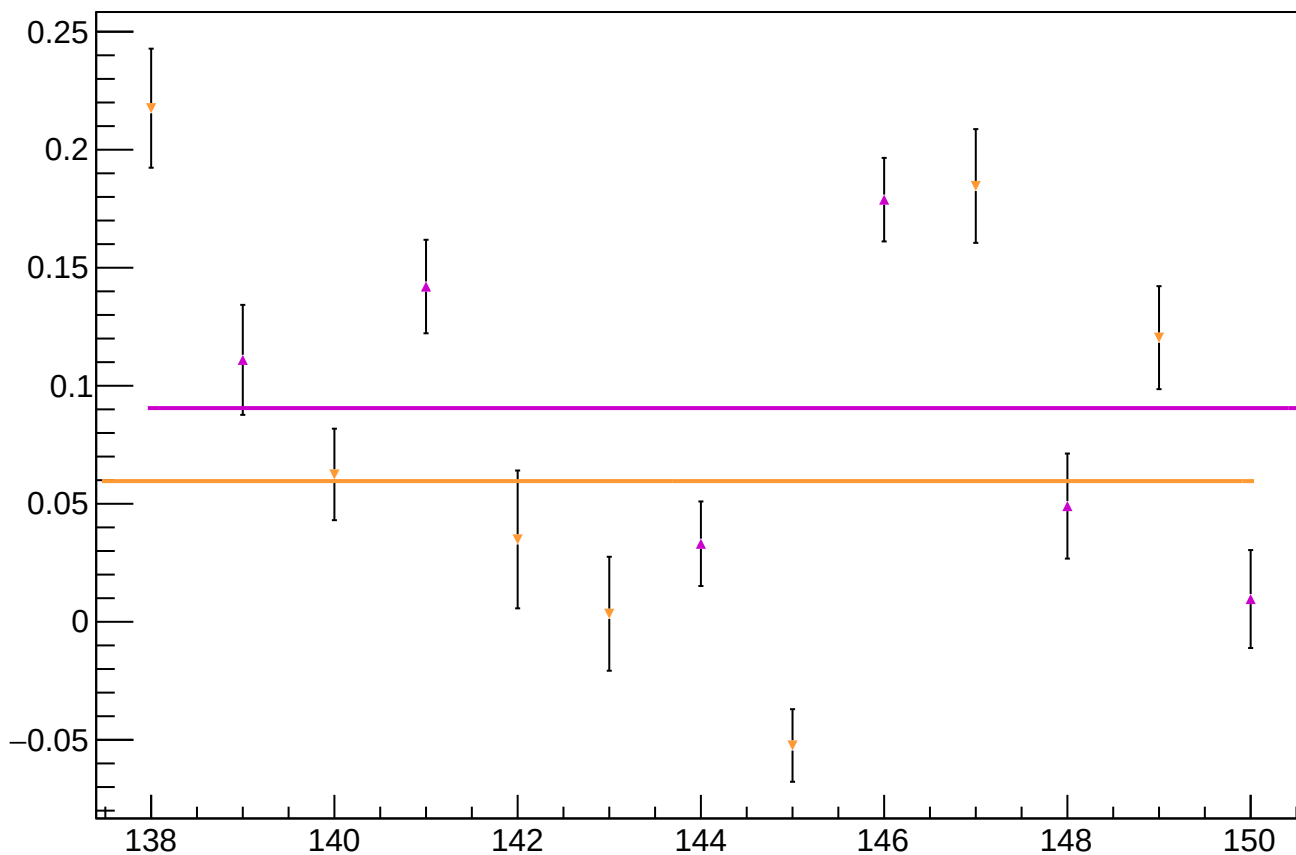
In: -33.555+/-0.158  $\chi^2/\text{NDF}$ : 678.8/5

Out: -34.333+/-0.161  $\chi^2/\text{NDF}$ : 919.8/6

All: -33.935+/-0.113  $\chi^2/\text{NDF}$ : 1610.5/12



reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.060 $\pm$ 0.008  $\chi^2$ /NDF:133.1/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.091 $\pm$ 0.008  $\chi^2$ /NDF:61.4/5

Left: 0.075 $\pm$ 0.006  $\chi^2$ /NDF: 201.8/12

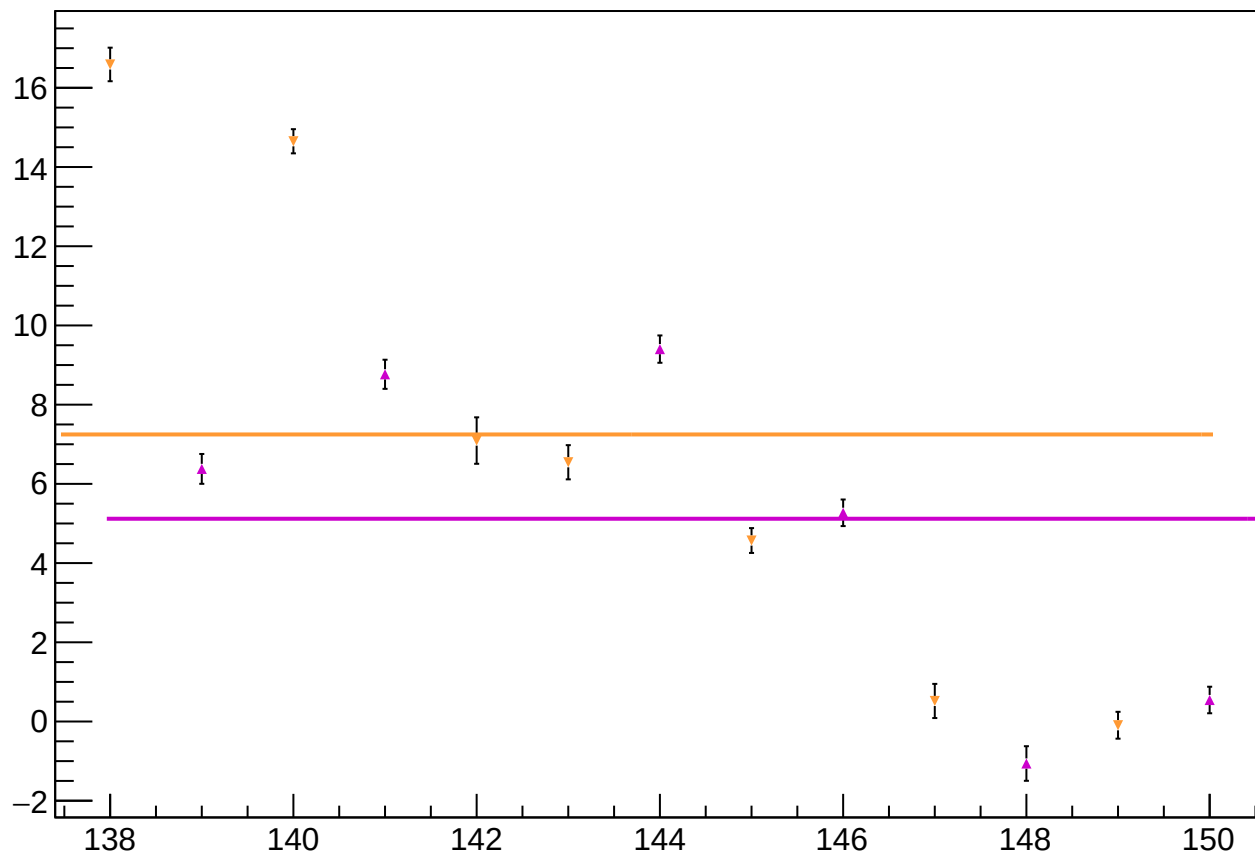
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.091 $\pm$ 0.008  $\chi^2$ /NDF:61.4/5

Out: 0.060 $\pm$ 0.008  $\chi^2$ /NDF:133.1/6

All: 0.075 $\pm$ 0.006  $\chi^2$ /NDF: 201.8/12

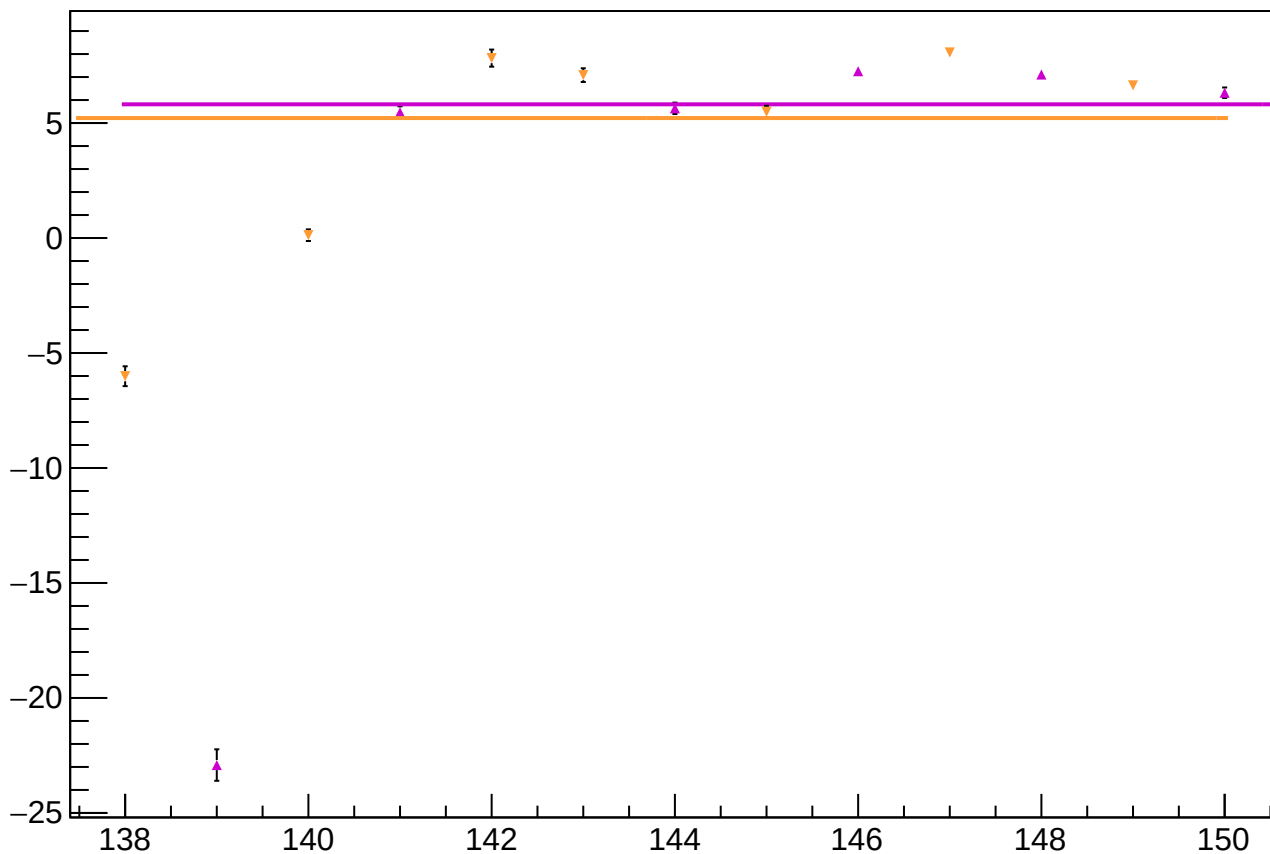
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.248+/-0.143  $\chi^2/\text{NDF}$ :1862.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.120+/-0.148  $\chi^2/\text{NDF}$ :650.7/5

Left: 6.216+/-0.103  $\chi^2/\text{NDF}$ : 2619.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.120+/-0.148  $\chi^2/\text{NDF}$ :650.7/5  
 Out: 7.248+/-0.143  $\chi^2/\text{NDF}$ :1862.1/6  
 All: 6.216+/-0.103  $\chi^2/\text{NDF}$ : 2619.9/12

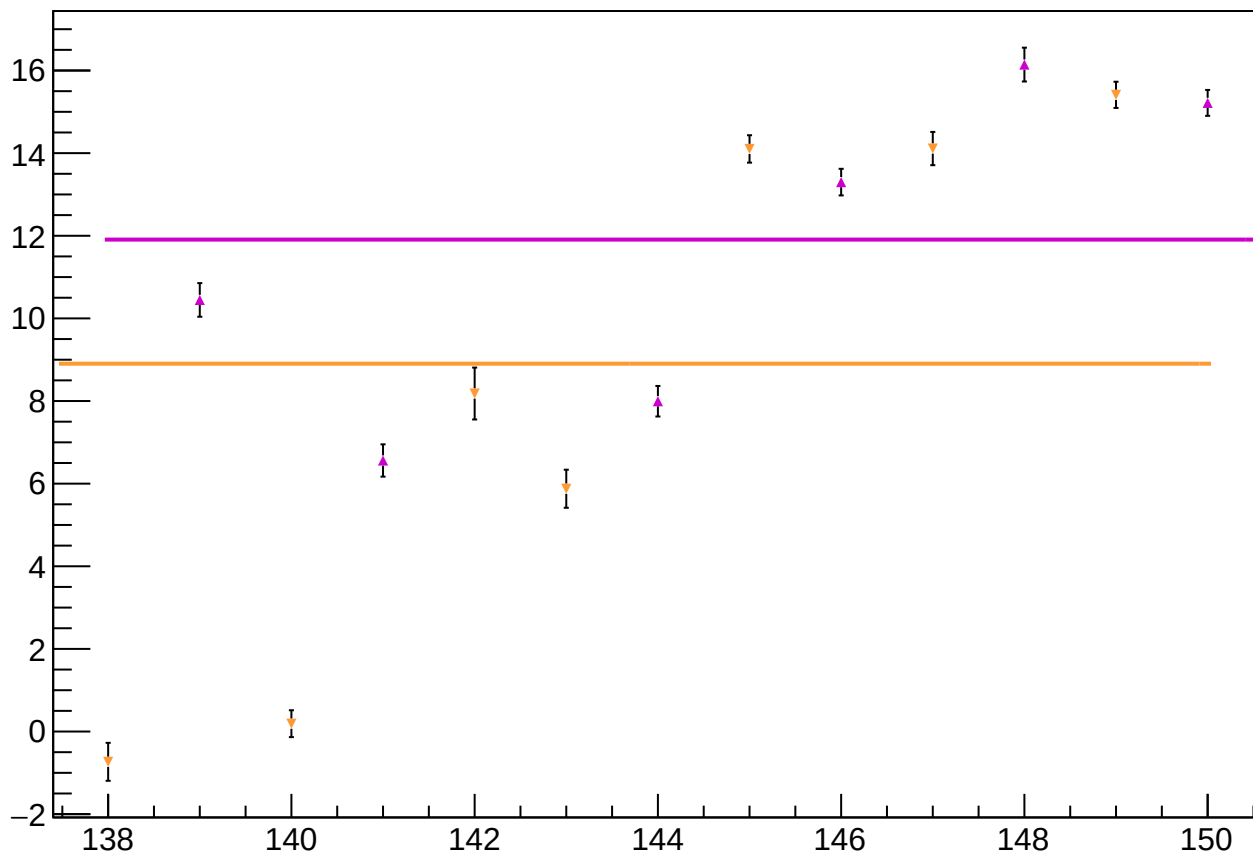
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.217+/-0.101  $\chi^2/\text{NDF}$ :1404.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.814+/-0.102  $\chi^2/\text{NDF}$ :1851.3/5

Left: 5.511+/-0.072  $\chi^2/\text{NDF}$ : 3272.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.814+/-0.102  $\chi^2/\text{NDF}$ :1851.3/5  
 Out: 5.217+/-0.101  $\chi^2/\text{NDF}$ :1404.0/6  
 All: 5.511+/-0.072  $\chi^2/\text{NDF}$ : 3272.5/12

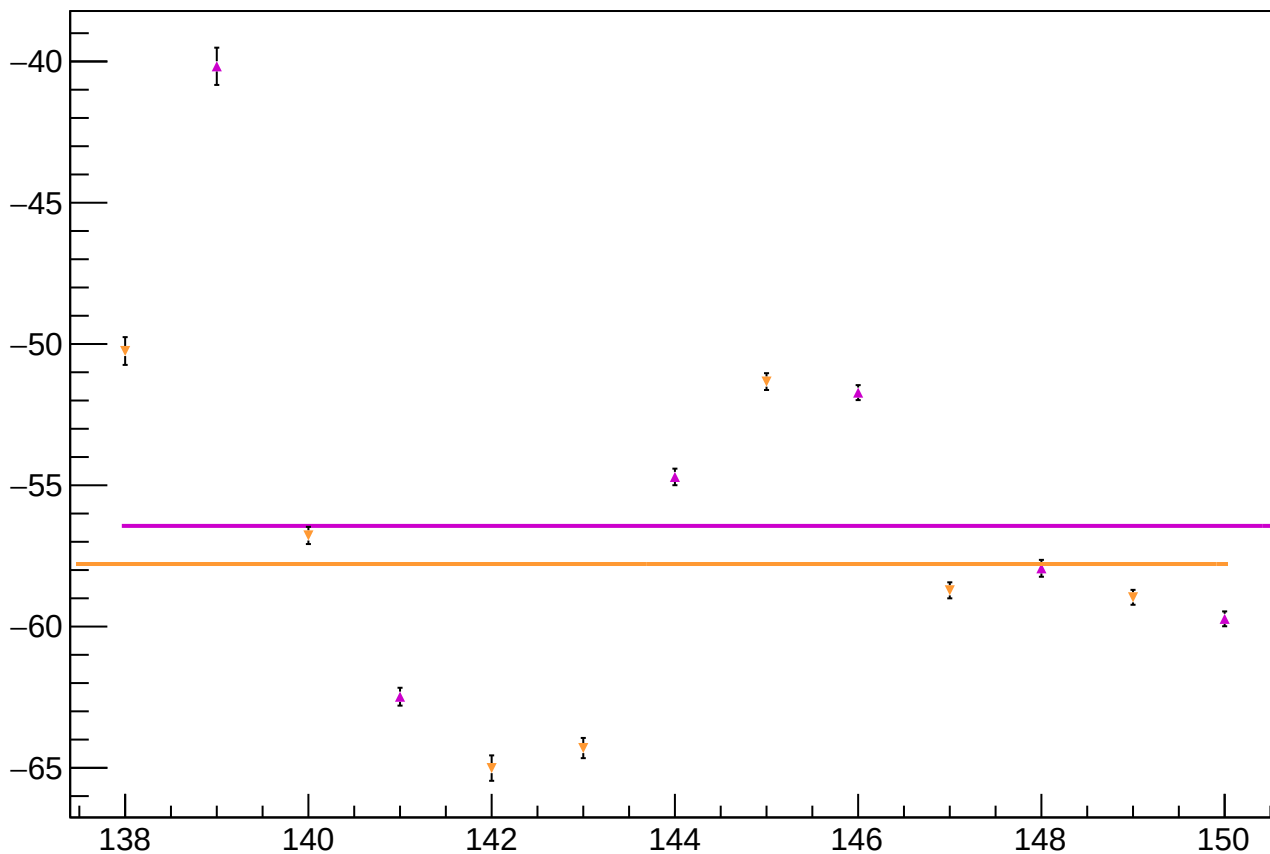
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 8.903 $\pm$ 0.146  $\chi^2$ /NDF:2036.0/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 11.907 $\pm$ 0.148  $\chi^2$ /NDF:548.9/5

Left: 10.390 $\pm$ 0.104  $\chi^2$ /NDF: 2793.2/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 11.907 $\pm$ 0.148  $\chi^2$ /NDF:548.9/5  
 Out: 8.903 $\pm$ 0.146  $\chi^2$ /NDF:2036.0/6  
 All: 10.390 $\pm$ 0.104  $\chi^2$ /NDF: 2793.2/12

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -57.786+/-0.123  $\chi^2/\text{NDF}$ :1338.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -56.437+/-0.125  $\chi^2/\text{NDF}$ :1508.1/5

Left: -57.122+/-0.088  $\chi^2/\text{NDF}$ : 2905.6/12

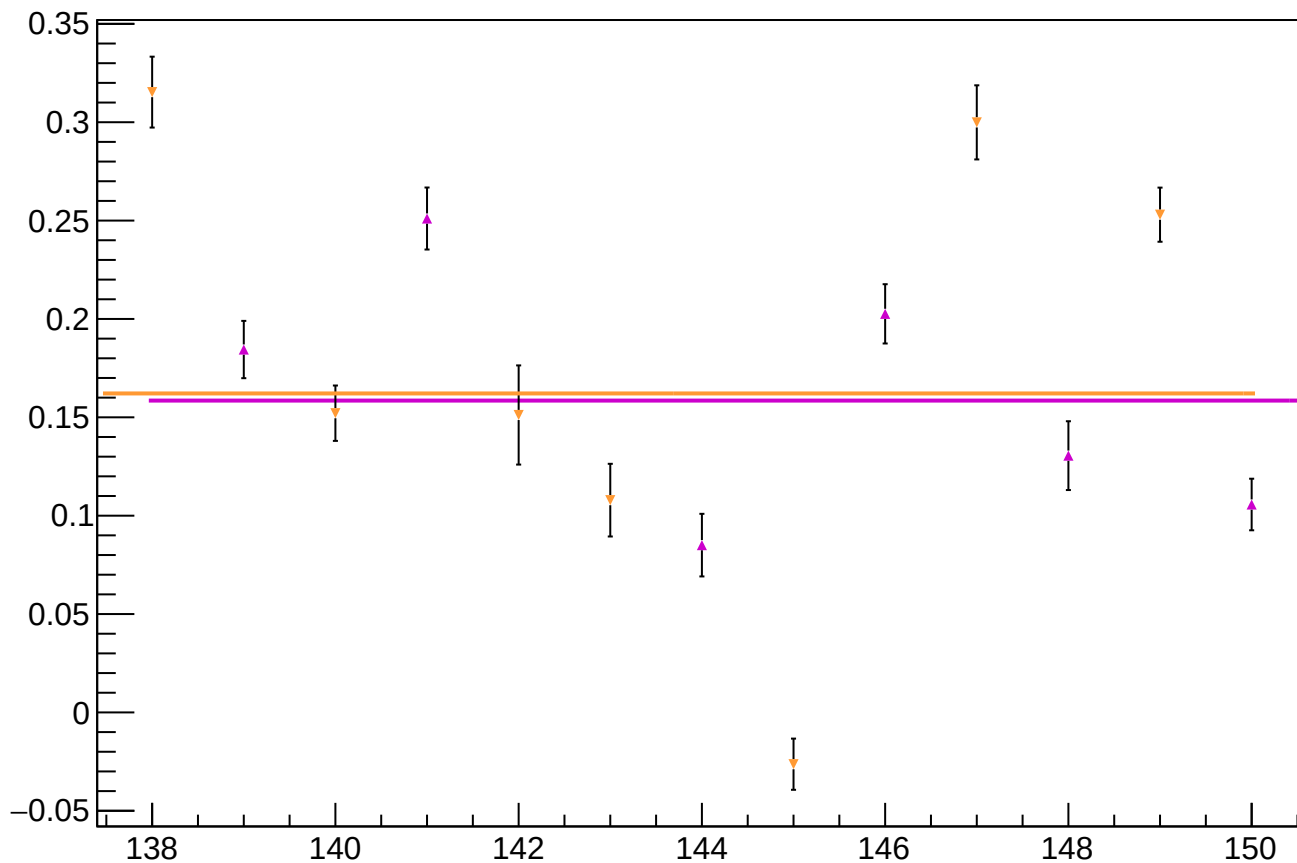
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -56.437+/-0.125  $\chi^2/\text{NDF}$ :1508.1/5

Out: -57.786+/-0.123  $\chi^2/\text{NDF}$ :1338.6/6

All: -57.122+/-0.088  $\chi^2/\text{NDF}$ : 2905.6/12

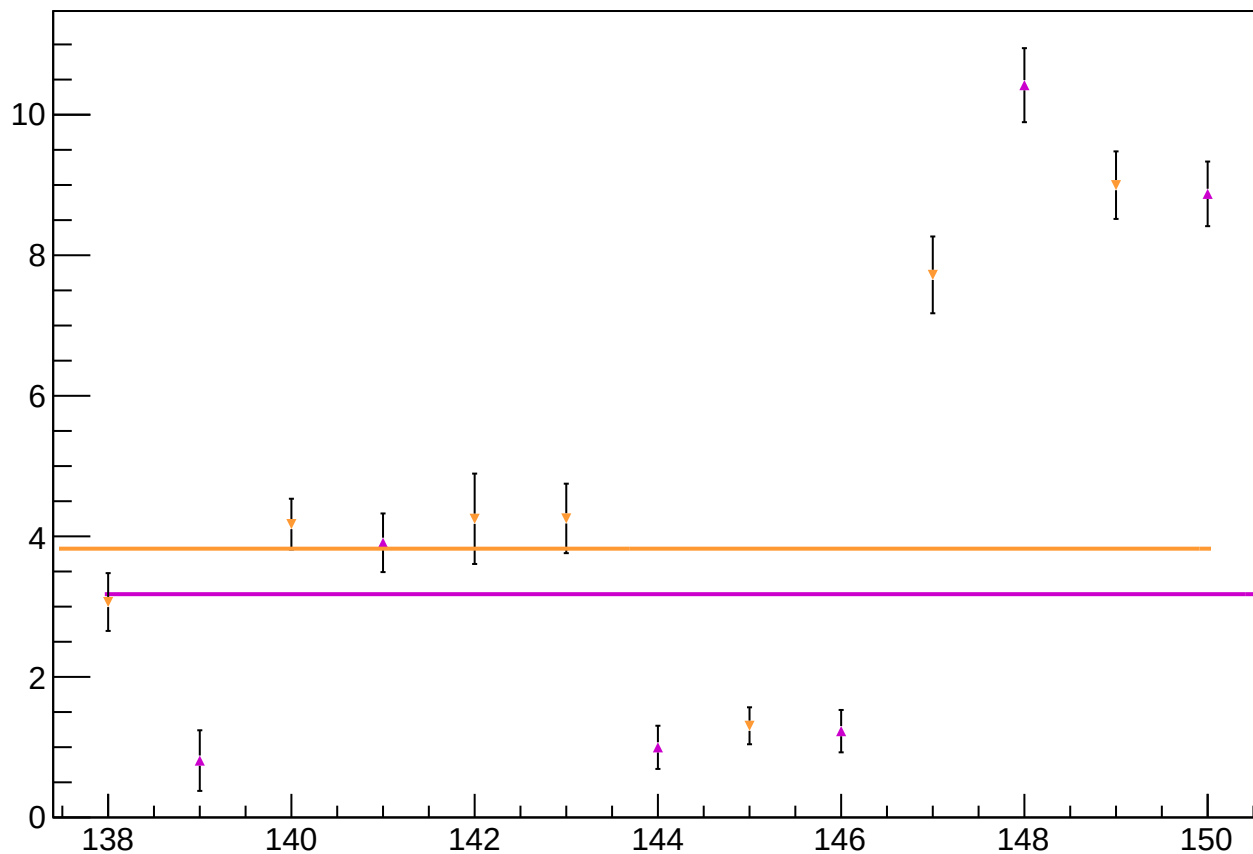
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.162 $\pm$ 0.006  $\chi^2$ /NDF:388.5/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.159 $\pm$ 0.006  $\chi^2$ /NDF:86.4/5

Left: 0.160 $\pm$ 0.004  $\chi^2$ /NDF: 475.0/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.159 $\pm$ 0.006  $\chi^2$ /NDF:86.4/5  
 Out: 0.162 $\pm$ 0.006  $\chi^2$ /NDF:388.5/6  
 All: 0.160 $\pm$ 0.004  $\chi^2$ /NDF: 475.0/12

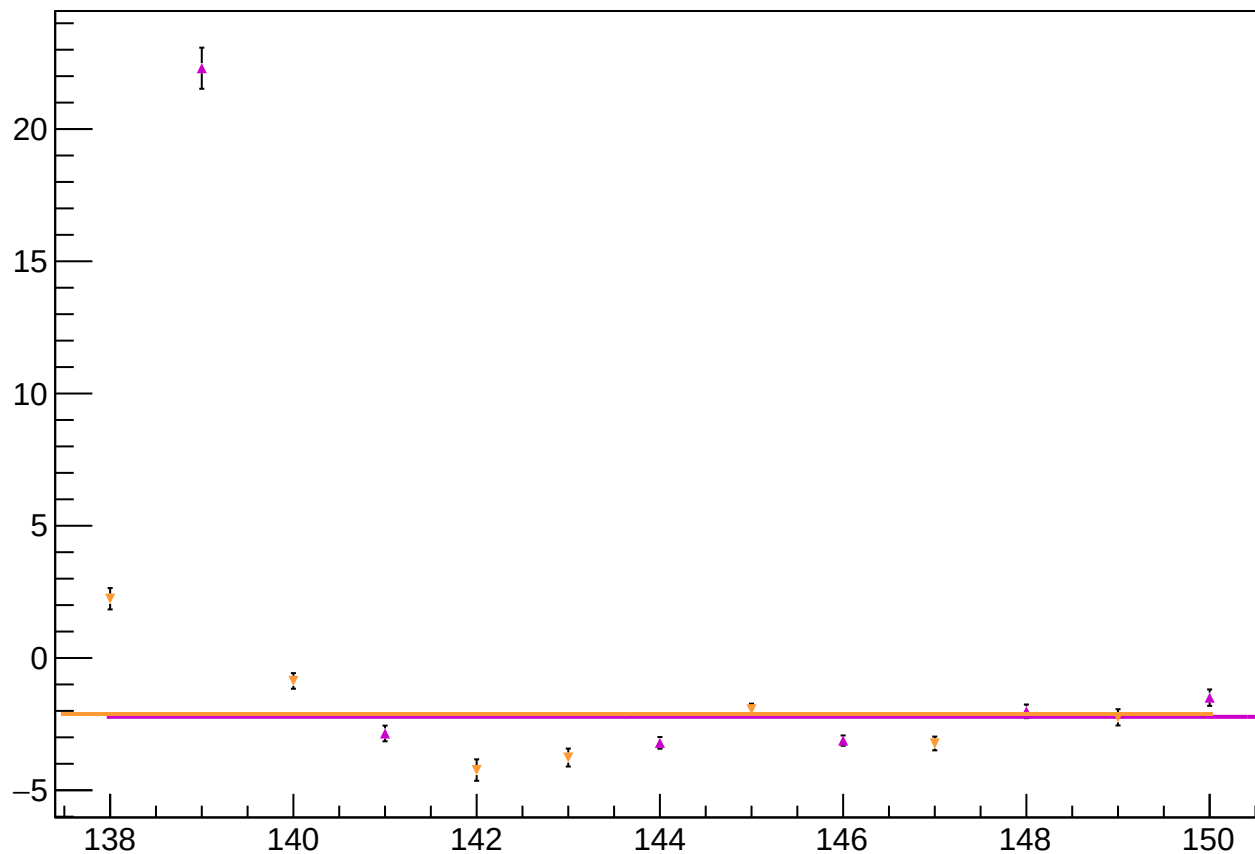
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.825+/-0.154  $\chi^2/\text{NDF}$ :264.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 3.177+/-0.156  $\chi^2/\text{NDF}$ :467.8/5

Left: 3.506+/-0.110  $\chi^2/\text{NDF}$ : 740.6/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 3.177+/-0.156  $\chi^2/\text{NDF}$ :467.8/5  
 Out: 3.825+/-0.154  $\chi^2/\text{NDF}$ :264.1/6  
 All: 3.506+/-0.110  $\chi^2/\text{NDF}$ : 740.6/12

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

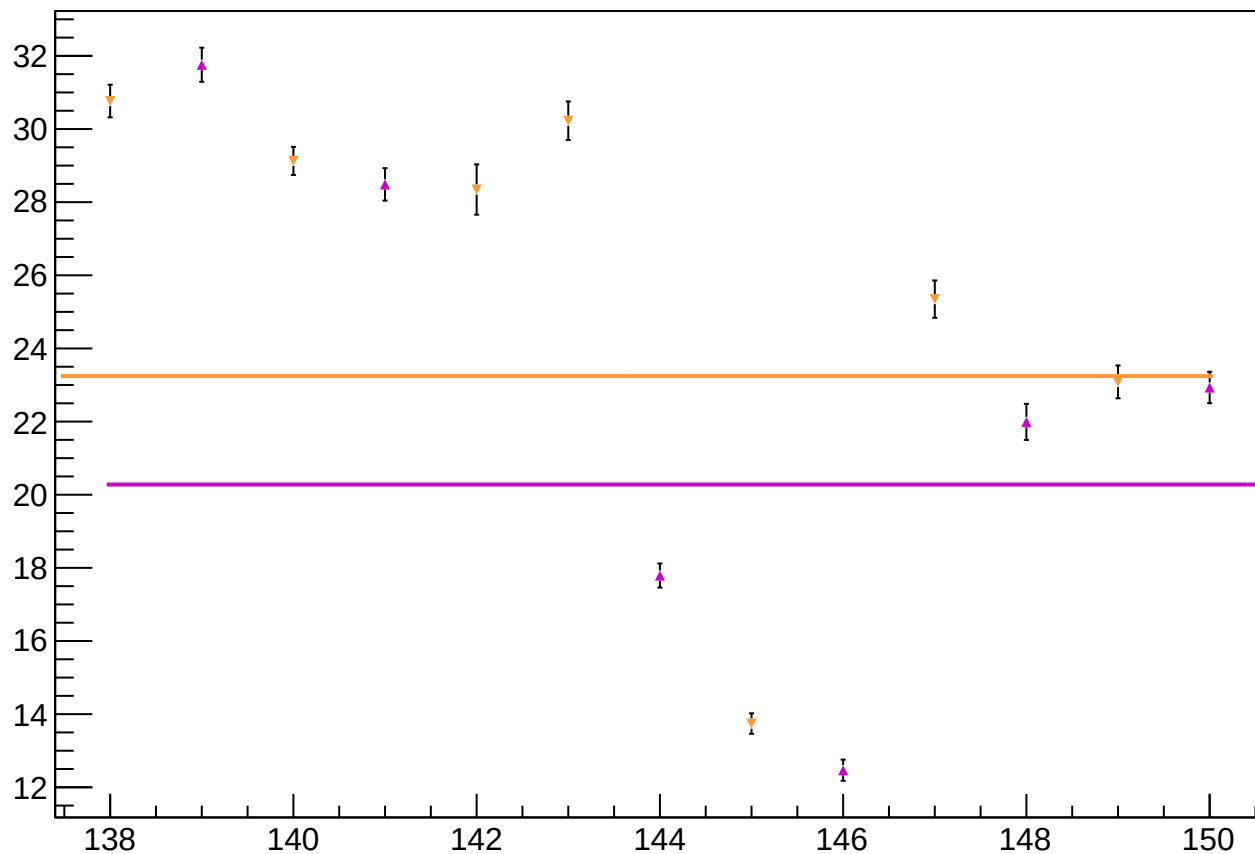


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.117+/-0.112  $\chi^2/\text{NDF}$ :204.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.225+/-0.108  $\chi^2/\text{NDF}$ :1047.8/5

Left: -2.173+/-0.078  $\chi^2/\text{NDF}$ : 1252.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -2.225+/-0.108  $\chi^2/\text{NDF}$ :1047.8/5  
 Out: -2.117+/-0.112  $\chi^2/\text{NDF}$ :204.4/6  
 All: -2.173+/-0.078  $\chi^2/\text{NDF}$ : 1252.7/12



reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 23.245+/-0.160  $\chi^2/\text{NDF}$ :1915.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 20.279+/-0.158  $\chi^2/\text{NDF}$ :1779.3/5

Left: 21.739+/-0.112  $\chi^2/\text{NDF}$ : 3869.2/12

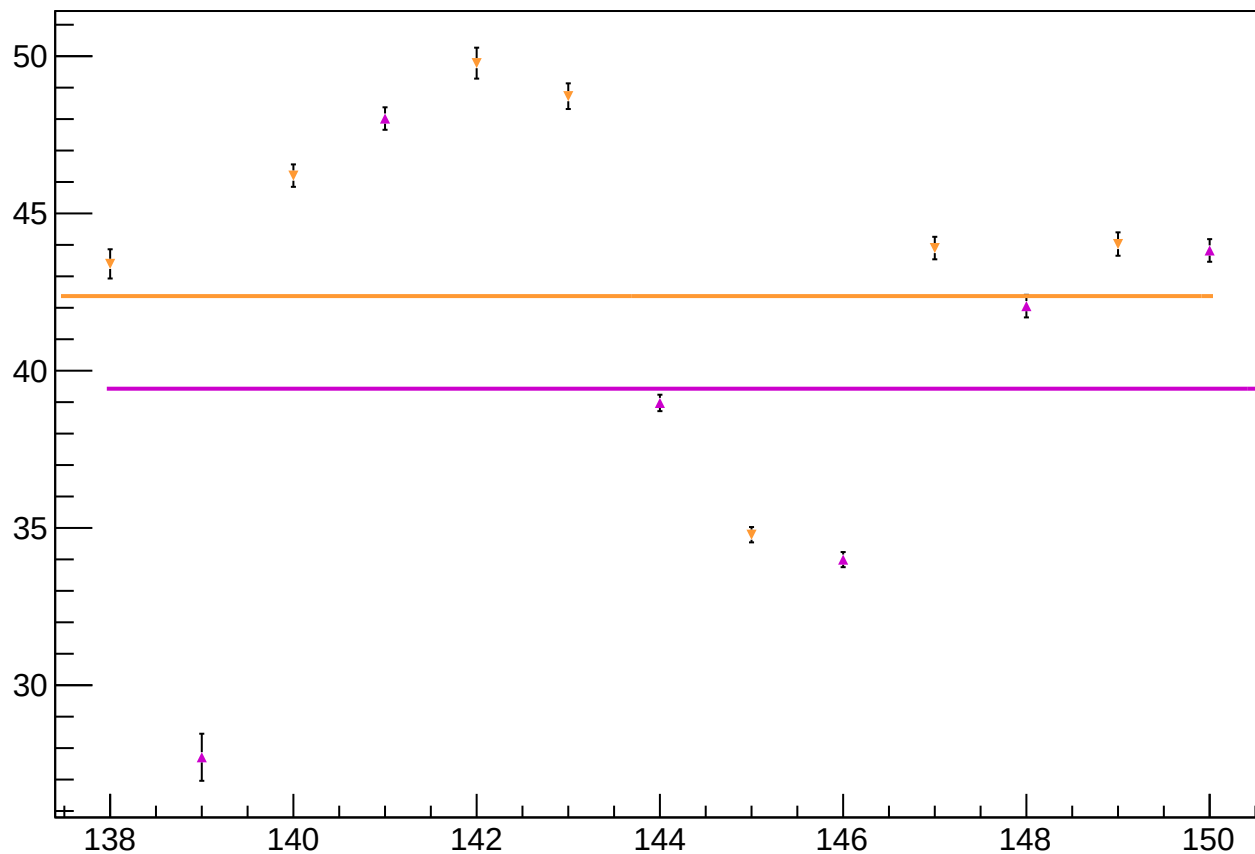
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 20.279+/-0.158  $\chi^2/\text{NDF}$ :1779.3/5

Out: 23.245+/-0.160  $\chi^2/\text{NDF}$ :1915.6/6

All: 21.739+/-0.112  $\chi^2/\text{NDF}$ : 3869.2/12

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 42.372+/-0.136  $\chi^2/\text{NDF}$ :1594.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 39.428+/-0.132  $\chi^2/\text{NDF}$ :1538.5/5

Left: 40.866+/-0.095  $\chi^2/\text{NDF}$ : 3374.6/12

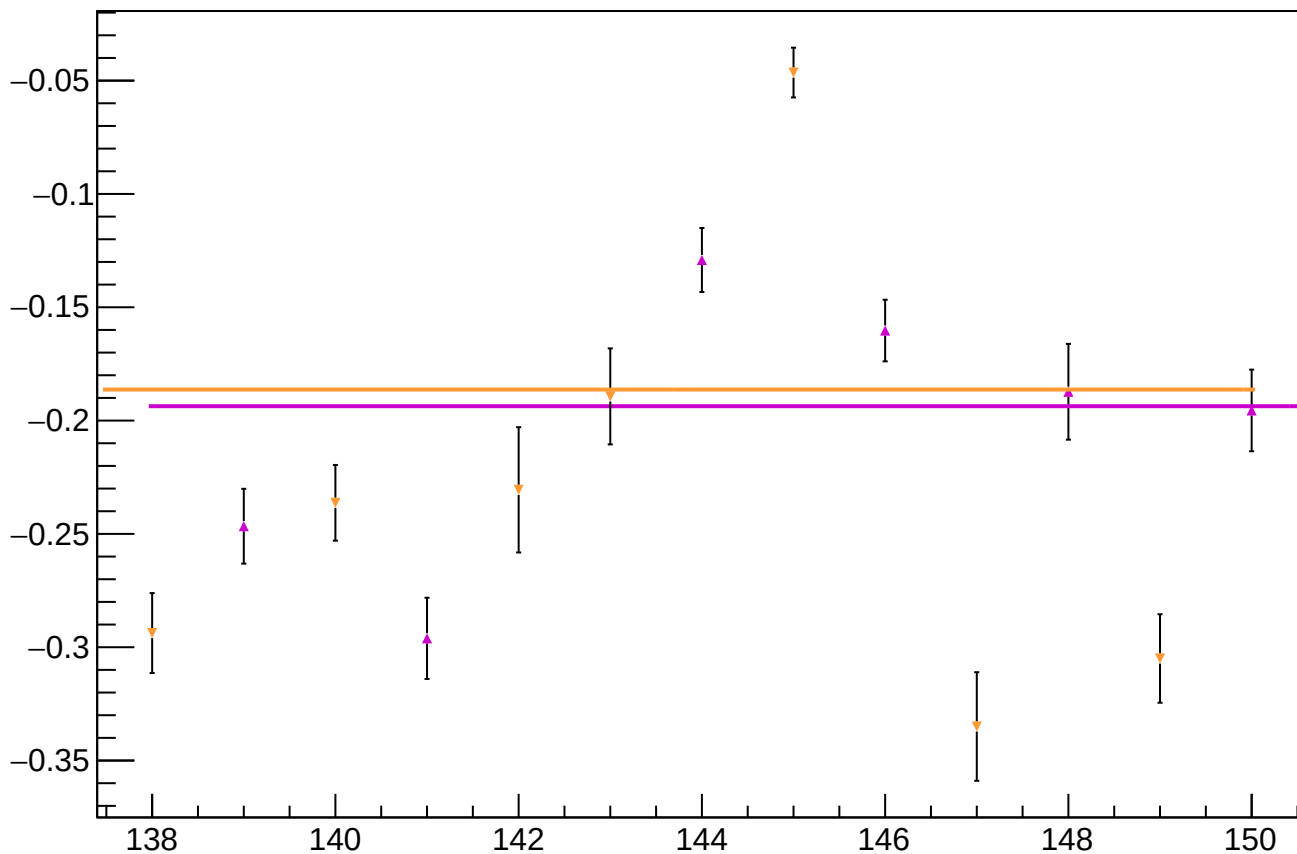
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 39.428+/-0.132  $\chi^2/\text{NDF}$ :1538.5/5

Out: 42.372+/-0.136  $\chi^2/\text{NDF}$ :1594.6/6

All: 40.866+/-0.095  $\chi^2/\text{NDF}$ : 3374.6/12

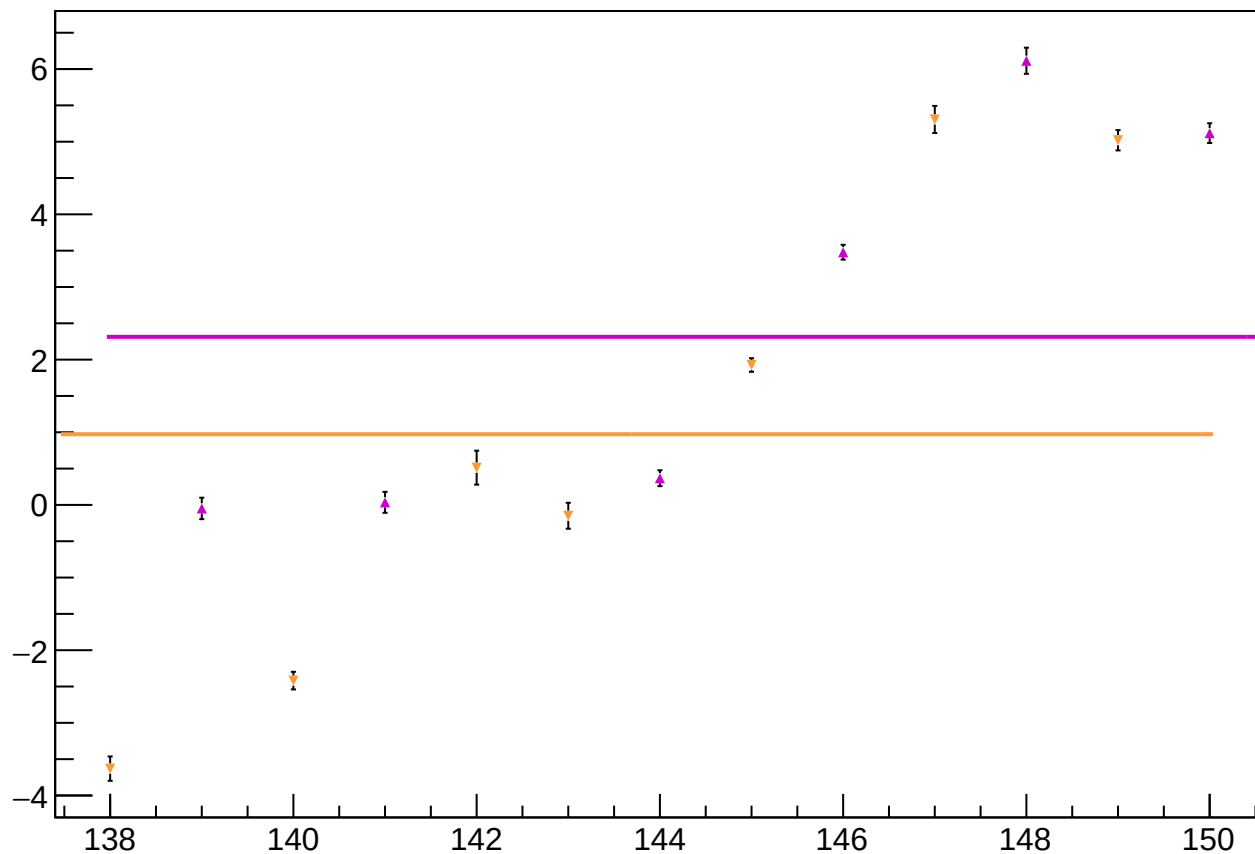
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.186+/-0.007  $\chi^2/\text{NDF}$ : 286.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.194+/-0.007  $\chi^2/\text{NDF}$ : 70.0/5

Left: -0.190+/-0.005  $\chi^2/\text{NDF}$ : 356.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.194+/-0.007  $\chi^2/\text{NDF}$ : 70.0/5  
 Out: -0.186+/-0.007  $\chi^2/\text{NDF}$ : 286.2/6  
 All: -0.190+/-0.005  $\chi^2/\text{NDF}$ : 356.8/12

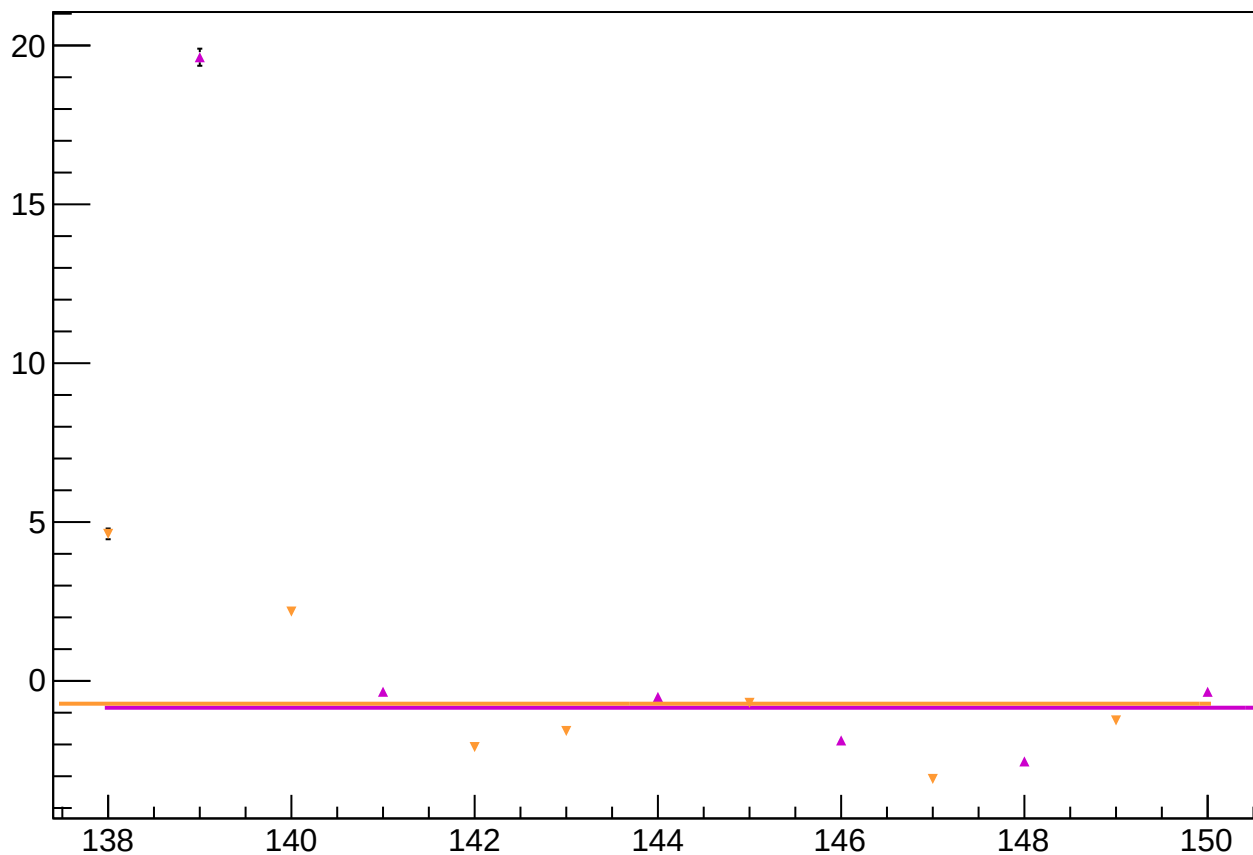
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.974+/-0.054  $\chi^2/\text{NDF}$ :3060.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.314+/-0.053  $\chi^2/\text{NDF}$ :1823.1/5

Left: 1.655+/-0.038  $\chi^2/\text{NDF}$ : 5200.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.314+/-0.053  $\chi^2/\text{NDF}$ :1823.1/5  
 Out: 0.974+/-0.054  $\chi^2/\text{NDF}$ :3060.5/6  
 All: 1.655+/-0.038  $\chi^2/\text{NDF}$ : 5200.0/12

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



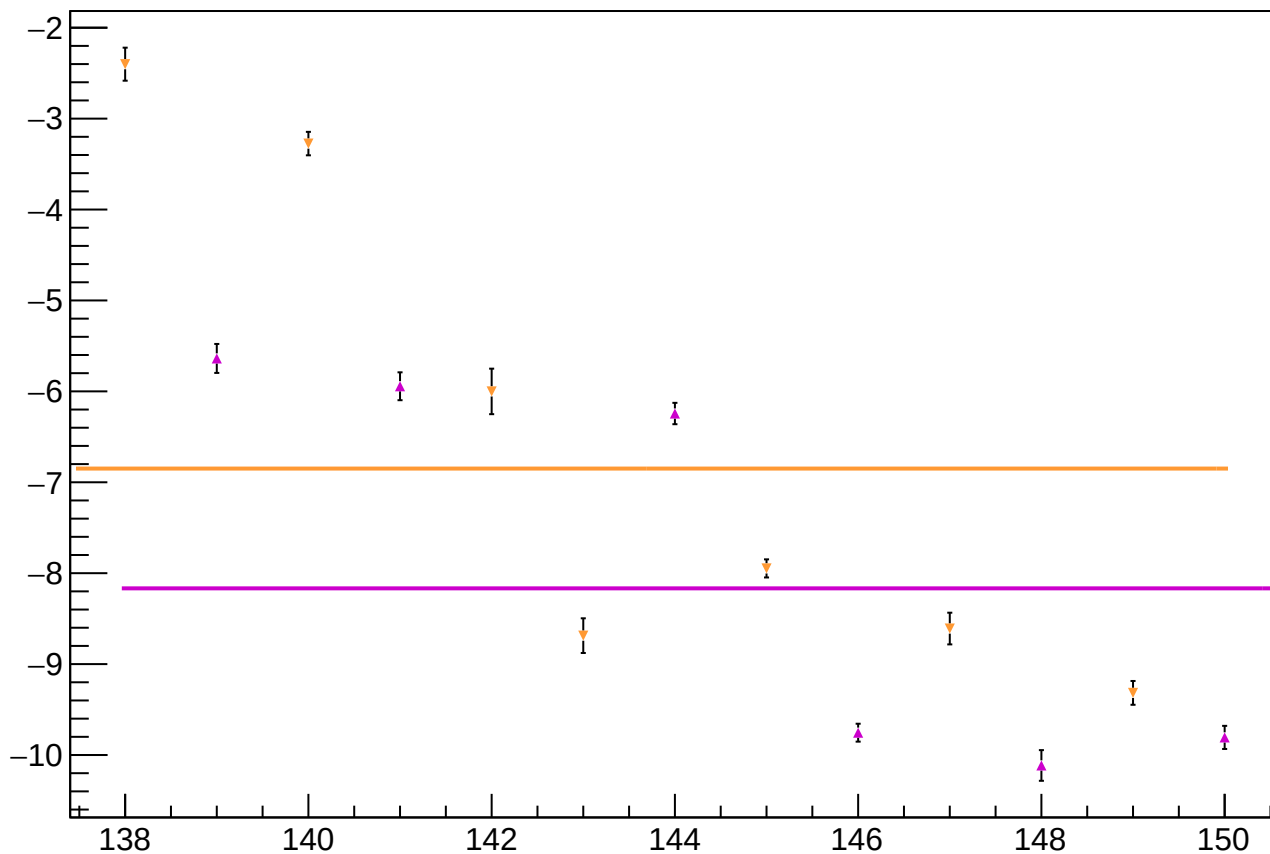
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.717+/-0.039  $\chi^2/\text{NDF}$ :2706.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.844+/-0.037  $\chi^2/\text{NDF}$ :6463.8/5

Left: -0.784+/-0.027  $\chi^2/\text{NDF}$ : 9175.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.844+/-0.037  $\chi^2/\text{NDF}$ :6463.8/5  
 Out: -0.717+/-0.039  $\chi^2/\text{NDF}$ :2706.3/6

All: -0.784+/-0.027  $\chi^2/\text{NDF}$ : 9175.7/12

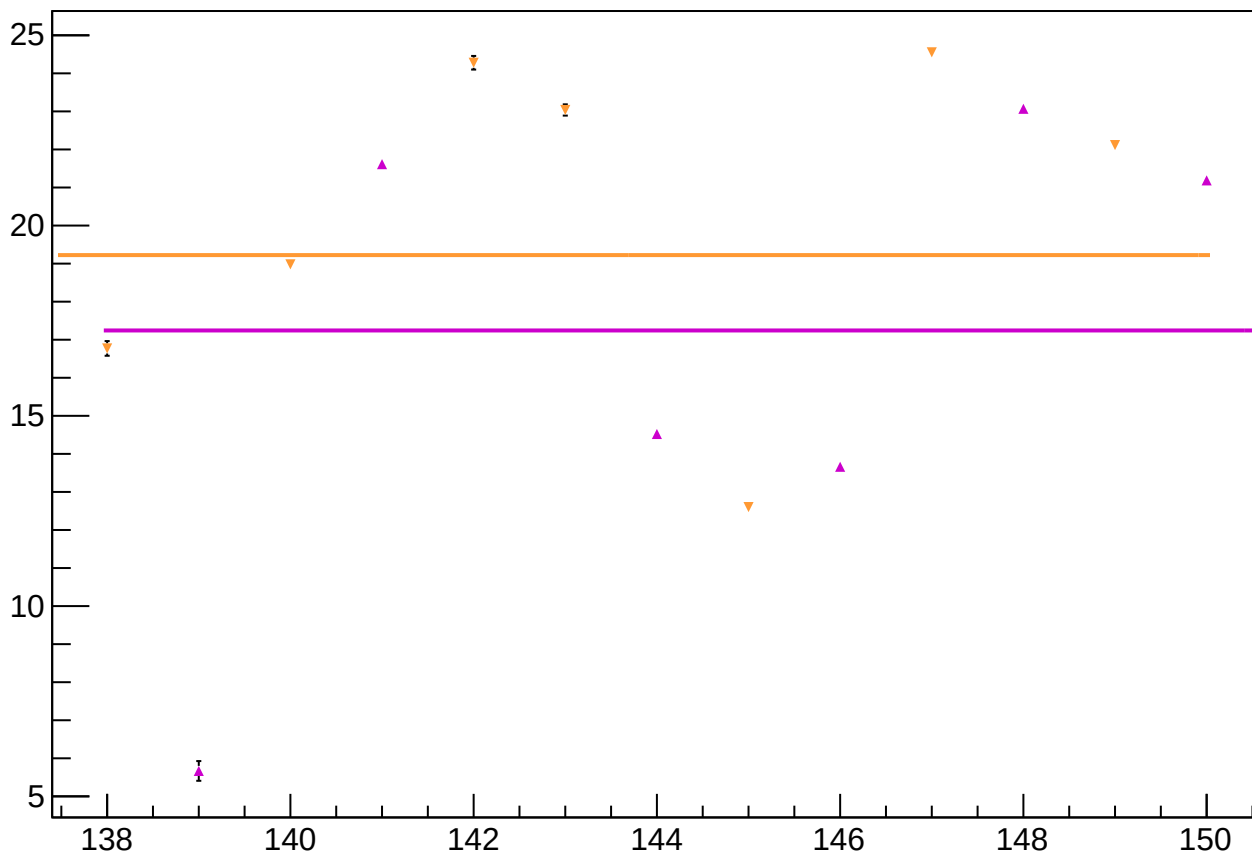
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.849+/-0.055  $\chi^2/\text{NDF}$ :2050.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.167+/-0.053  $\chi^2/\text{NDF}$ :1289.7/5

Left: -7.536+/-0.038  $\chi^2/\text{NDF}$ : 3634.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -8.167+/-0.053  $\chi^2/\text{NDF}$ :1289.7/5  
 Out: -6.849+/-0.055  $\chi^2/\text{NDF}$ :2050.4/6  
 All: -7.536+/-0.038  $\chi^2/\text{NDF}$ : 3634.8/12

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 19.224+/-0.047  $\chi^2/\text{NDF}$ : 9853.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 17.243+/-0.045  $\chi^2/\text{NDF}$ : 9588.2/5

Left: 18.186+/-0.032  $\chi^2/\text{NDF}$ : 20369.6/12

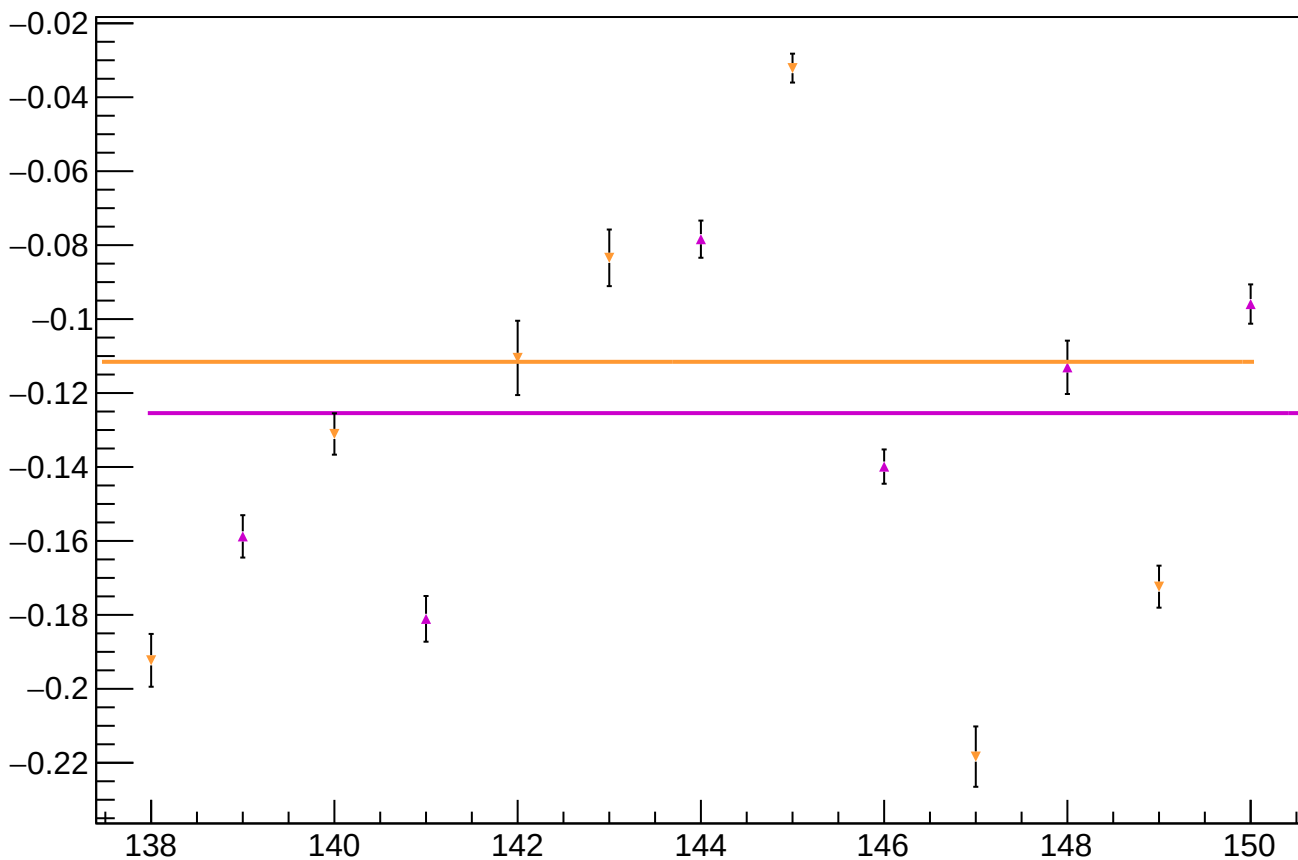
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 17.243+/-0.045  $\chi^2/\text{NDF}$ : 9588.2/5

Out: 19.224+/-0.047  $\chi^2/\text{NDF}$ : 9853.2/6

All: 18.186+/-0.032  $\chi^2/\text{NDF}$ : 20369.6/12

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.112+/-0.002  $\chi^2/\text{NDF}$ :852.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.125+/-0.002  $\chi^2/\text{NDF}$ :245.9/5

Left: -0.119+/-0.002  $\chi^2/\text{NDF}$ : 1116.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

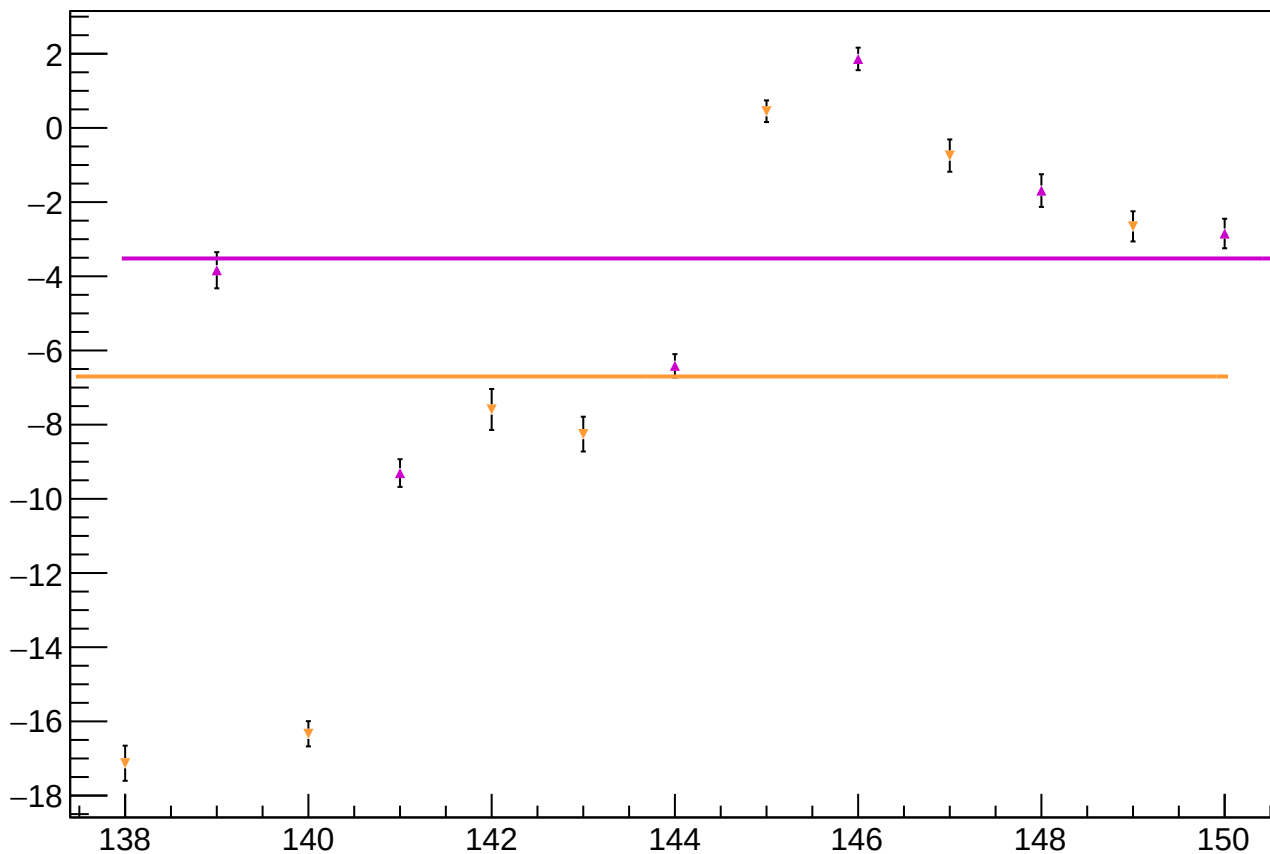
In: -0.125+/-0.002  $\chi^2/\text{NDF}$ :245.9/5

Out: -0.112+/-0.002  $\chi^2/\text{NDF}$ :852.3/6

All: -0.119+/-0.002  $\chi^2/\text{NDF}$ : 1116.9/12



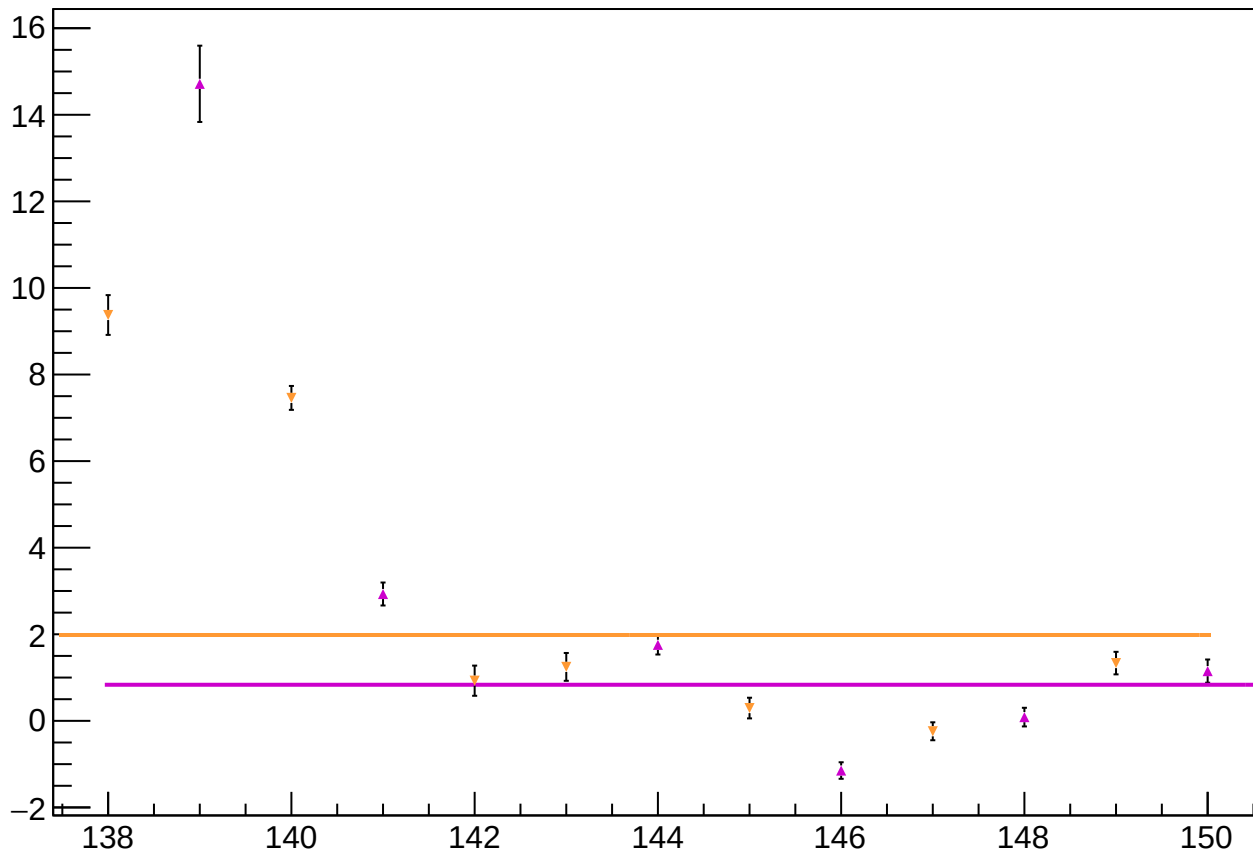
reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.701+/-0.151  $\chi^2/\text{NDF}$ : 2187.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.520+/-0.151  $\chi^2/\text{NDF}$ : 659.5/5

Left: -5.113+/-0.107  $\chi^2/\text{NDF}$ : 3068.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -3.520+/-0.151  $\chi^2/\text{NDF}$ : 659.5/5  
 Out: -6.701+/-0.151  $\chi^2/\text{NDF}$ : 2187.0/6  
 All: -5.113+/-0.107  $\chi^2/\text{NDF}$ : 3068.8/12

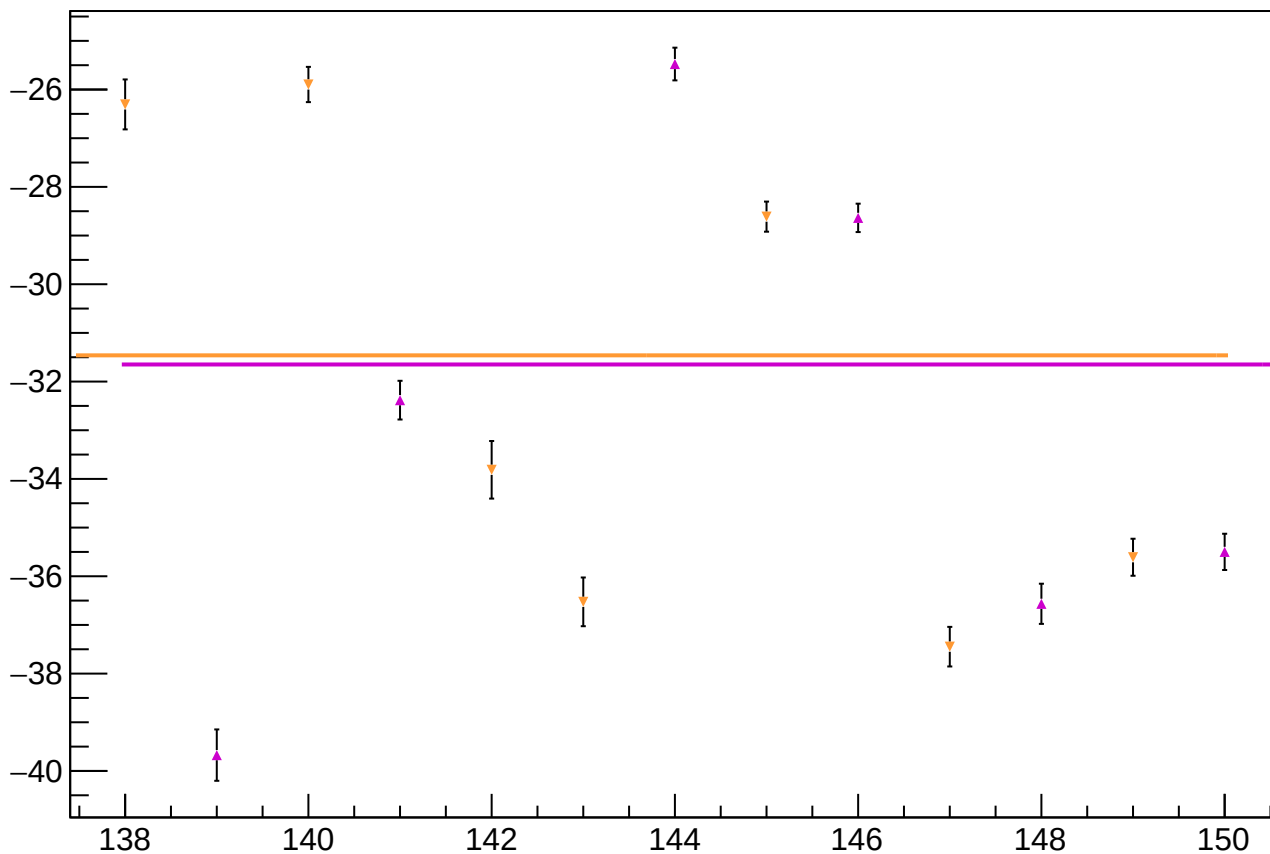
reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 1.983+/-0.105     $\chi^2/\text{NDF}$ : 837.6/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.834+/-0.101     $\chi^2/\text{NDF}$ : 448.7/5

Left: 1.387+/-0.073     $\chi^2/\text{NDF}$ : 1349.0/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.834+/-0.101     $\chi^2/\text{NDF}$ : 448.7/5  
 Out: 1.983+/-0.105     $\chi^2/\text{NDF}$ : 837.6/6  
 All: 1.387+/-0.073     $\chi^2/\text{NDF}$ : 1349.0/12

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -31.461+/-0.155  $\chi^2$ /NDF:875.8/6  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -31.649+/-0.151  $\chi^2$ /NDF:927.8/5

Left: -31.557+/-0.108  $\chi^2$ /NDF: 1804.3/12

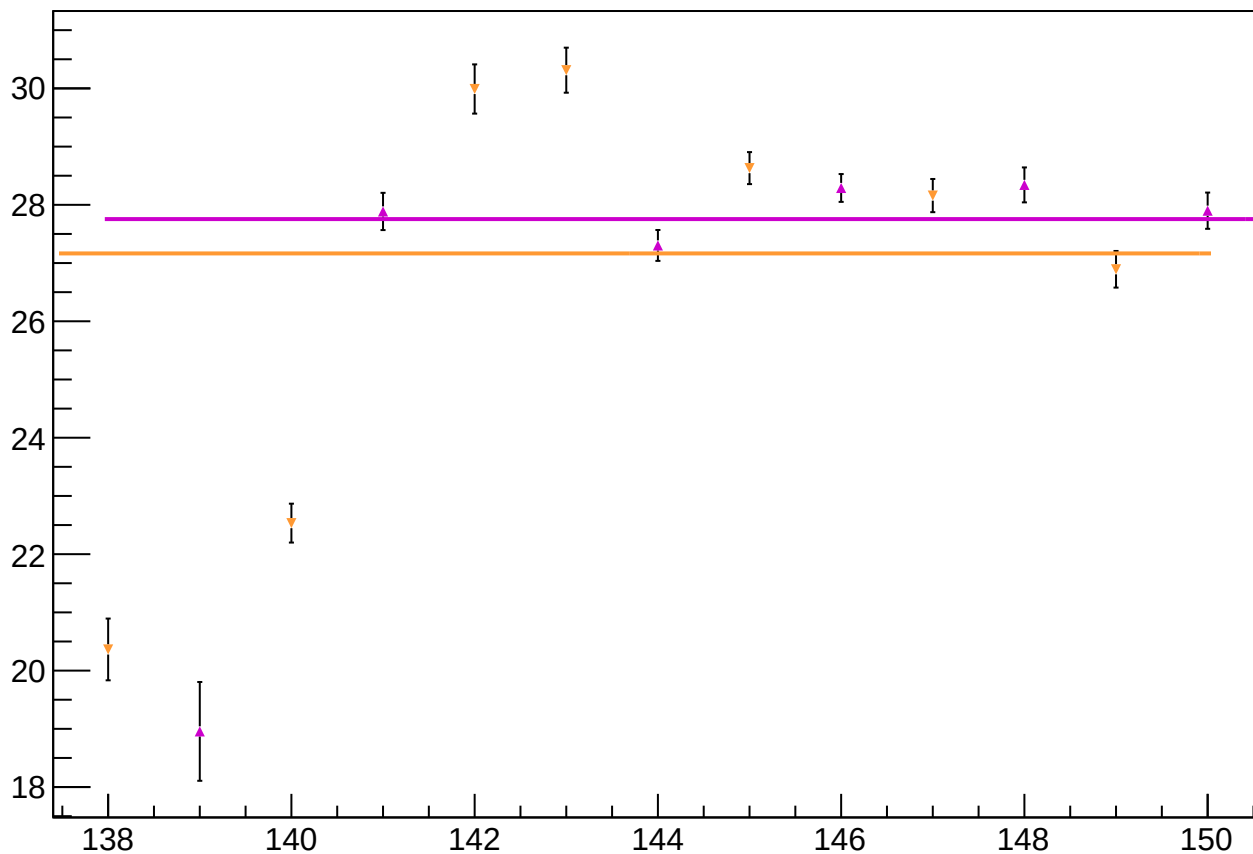
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: -31.649+/-0.151  $\chi^2$ /NDF:927.8/5

Out: -31.461+/-0.155  $\chi^2$ /NDF:875.8/6

All: -31.557+/-0.108  $\chi^2$ /NDF: 1804.3/12

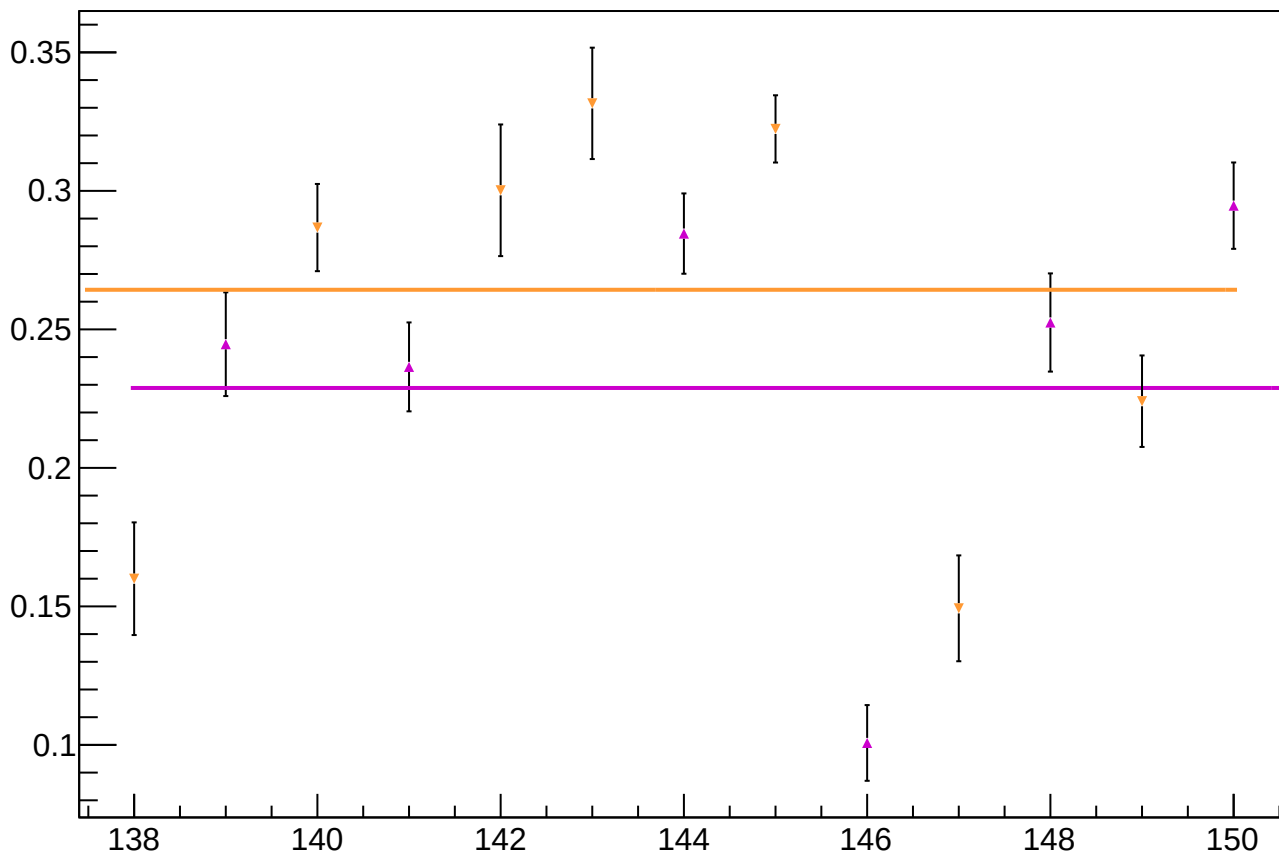
reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 27.165 $\pm$ 0.129  $\chi^2$ /NDF:509.1/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 27.755 $\pm$ 0.125  $\chi^2$ /NDF:119.7/5

Left: 27.469 $\pm$ 0.090  $\chi^2$ /NDF: 639.6/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 27.755 $\pm$ 0.125  $\chi^2$ /NDF:119.7/5  
 Out: 27.165 $\pm$ 0.129  $\chi^2$ /NDF:509.1/6  
 All: 27.469 $\pm$ 0.090  $\chi^2$ /NDF: 639.6/12

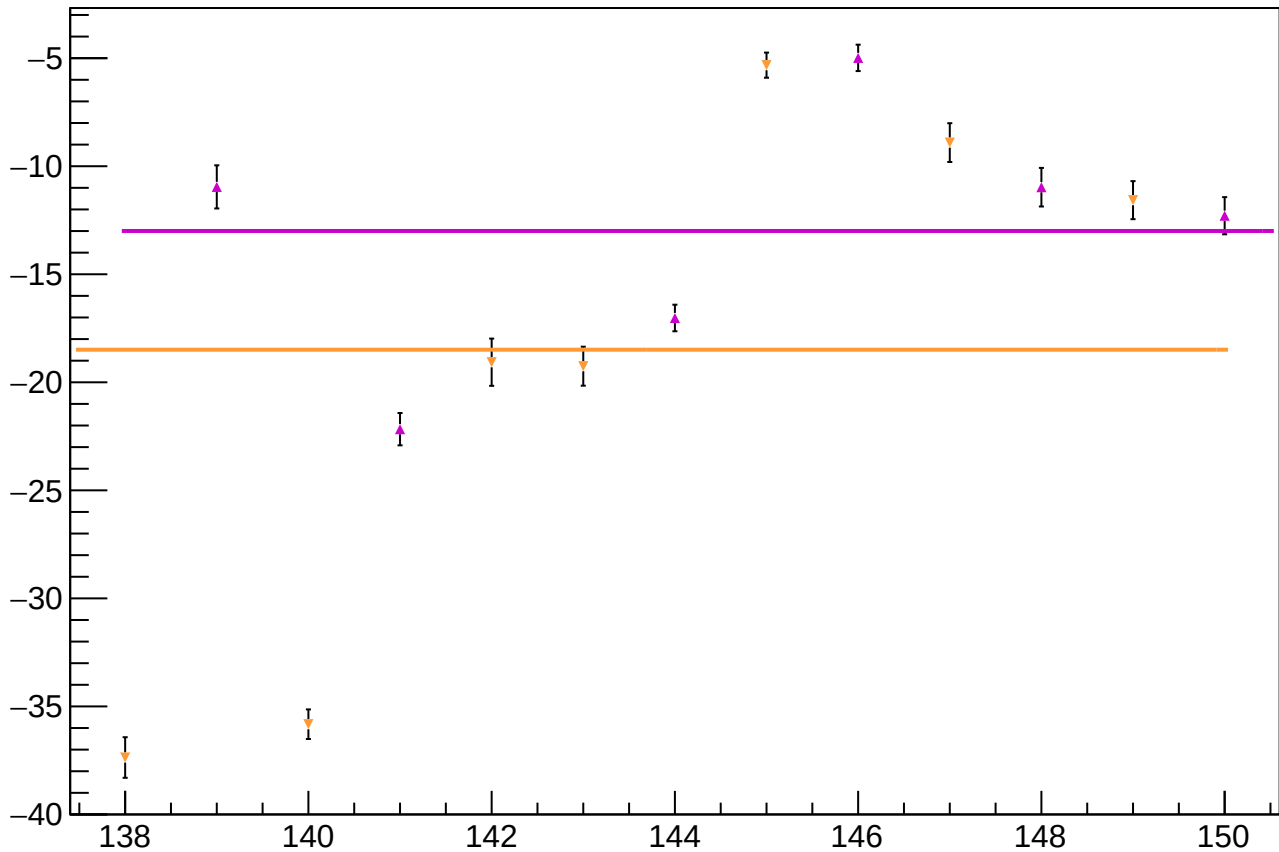
reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.264 $\pm$ 0.006  $\chi^2$ /NDF:106.9/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.229 $\pm$ 0.006  $\chi^2$ /NDF:123.2/5

Left: 0.246 $\pm$ 0.005  $\chi^2$ /NDF: 245.2/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.229 $\pm$ 0.006  $\chi^2$ /NDF:123.2/5  
 Out: 0.264 $\pm$ 0.006  $\chi^2$ /NDF:106.9/6  
 All: 0.246 $\pm$ 0.005  $\chi^2$ /NDF: 245.2/12

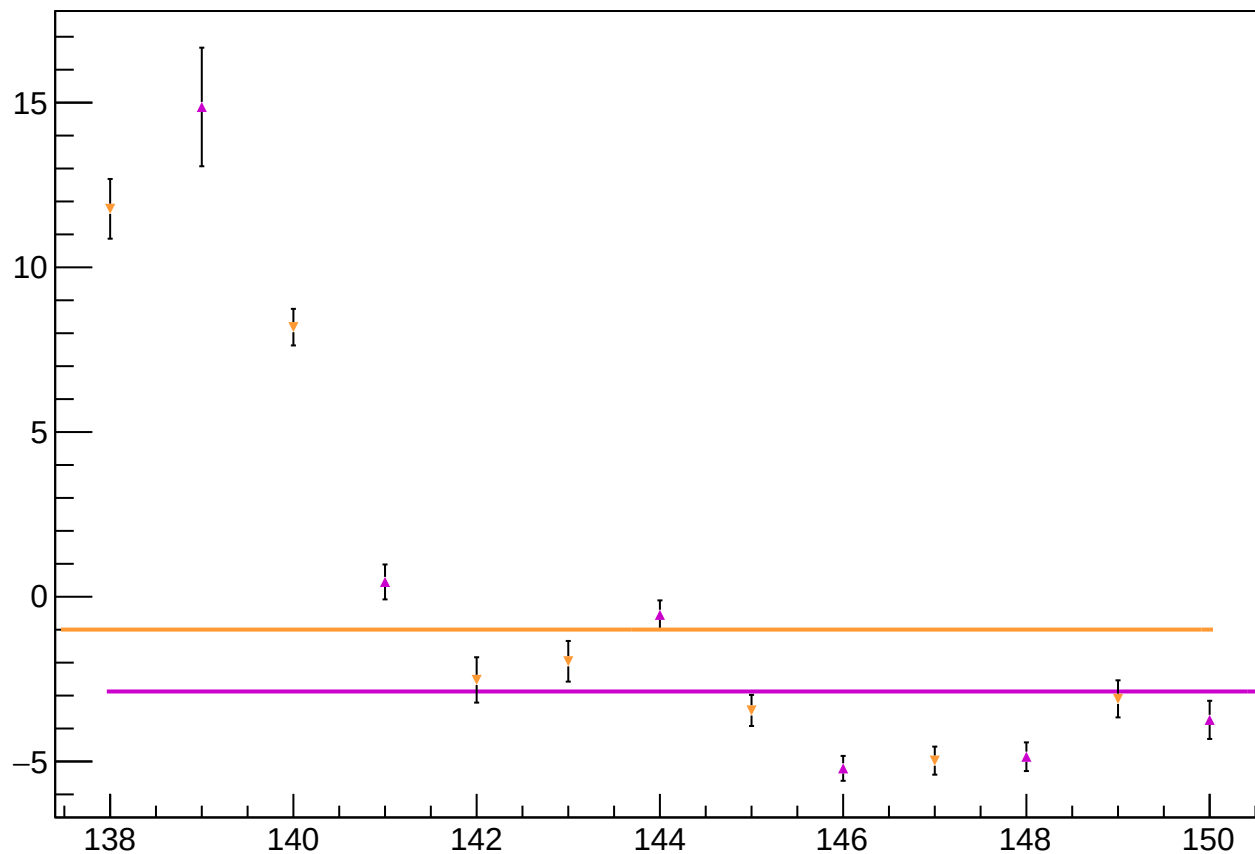
reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -18.491+/-0.304  $\chi^2/\text{NDF}$ :1733.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -12.997+/-0.305  $\chi^2/\text{NDF}$ :375.3/5

Left: -15.756+/-0.215  $\chi^2/\text{NDF}$ : 2271.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -12.997+/-0.305  $\chi^2/\text{NDF}$ :375.3/5  
 Out: -18.491+/-0.304  $\chi^2/\text{NDF}$ :1733.9/6  
 All: -15.756+/-0.215  $\chi^2/\text{NDF}$ : 2271.7/12

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.996+/-0.212  $\chi^2/\text{NDF}$ :607.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -2.876+/-0.203  $\chi^2/\text{NDF}$ :225.9/5

Left: -1.977+/-0.146  $\chi^2/\text{NDF}$ : 874.5/12

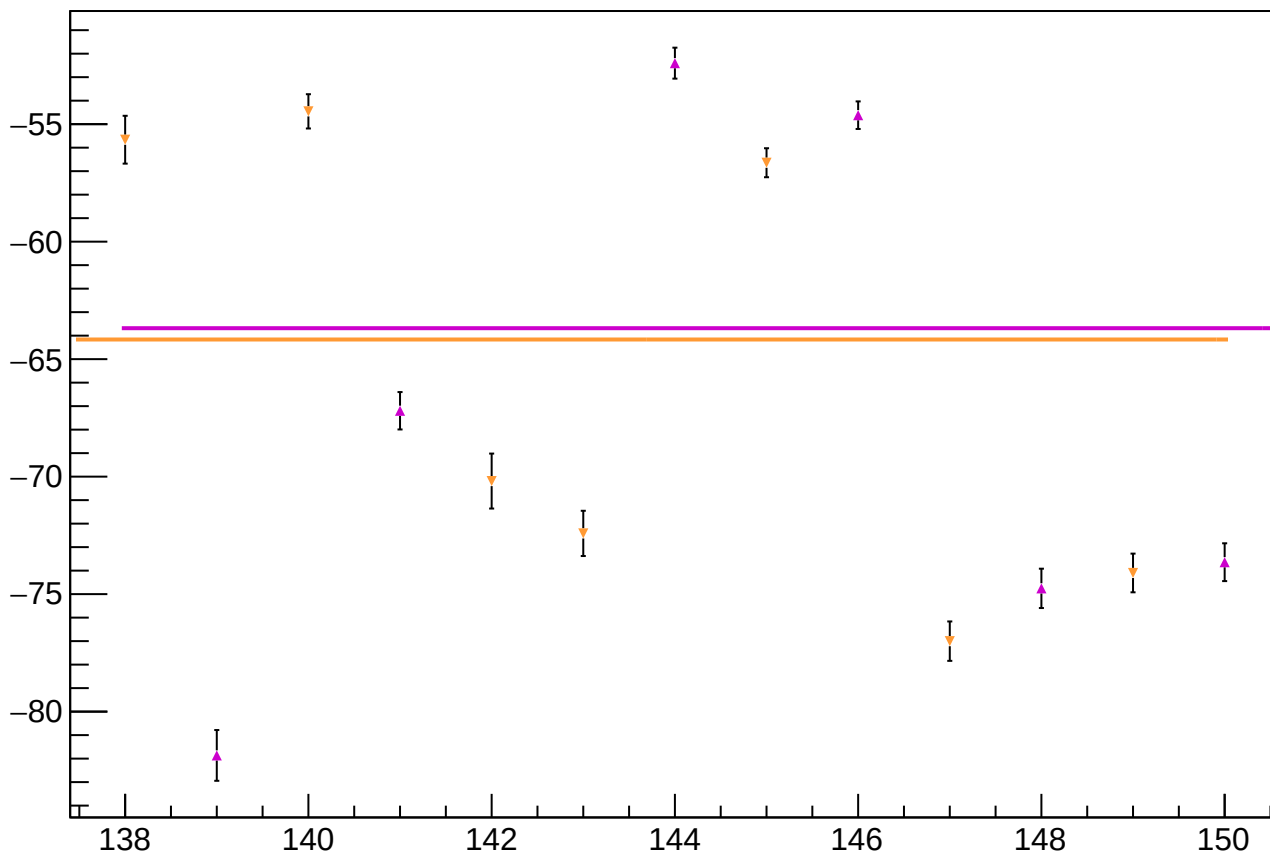
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2.876+/-0.203  $\chi^2/\text{NDF}$ :225.9/5

Out: -0.996+/-0.212  $\chi^2/\text{NDF}$ :607.5/6

All: -1.977+/-0.146  $\chi^2/\text{NDF}$ : 874.5/12

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -64.164+/-0.313  $\chi^2/\text{NDF}$ :875.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -63.683+/-0.307  $\chi^2/\text{NDF}$ :1162.8/5

Left: -63.918+/-0.219  $\chi^2/\text{NDF}$ : 2039.8/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

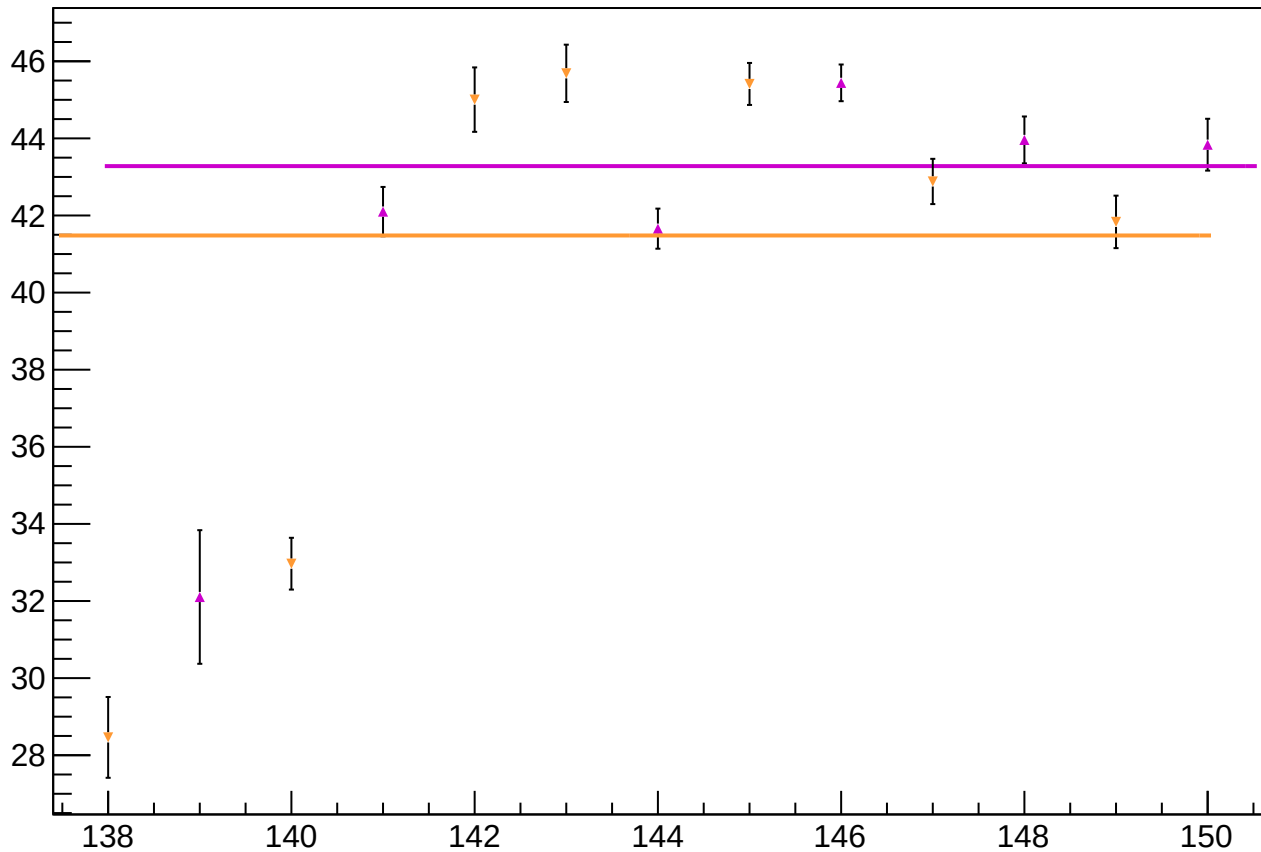
In: -63.683+/-0.307  $\chi^2/\text{NDF}$ :1162.8/5

Out: -64.164+/-0.313  $\chi^2/\text{NDF}$ :875.9/6

All: -63.918+/-0.219  $\chi^2/\text{NDF}$ : 2039.8/12



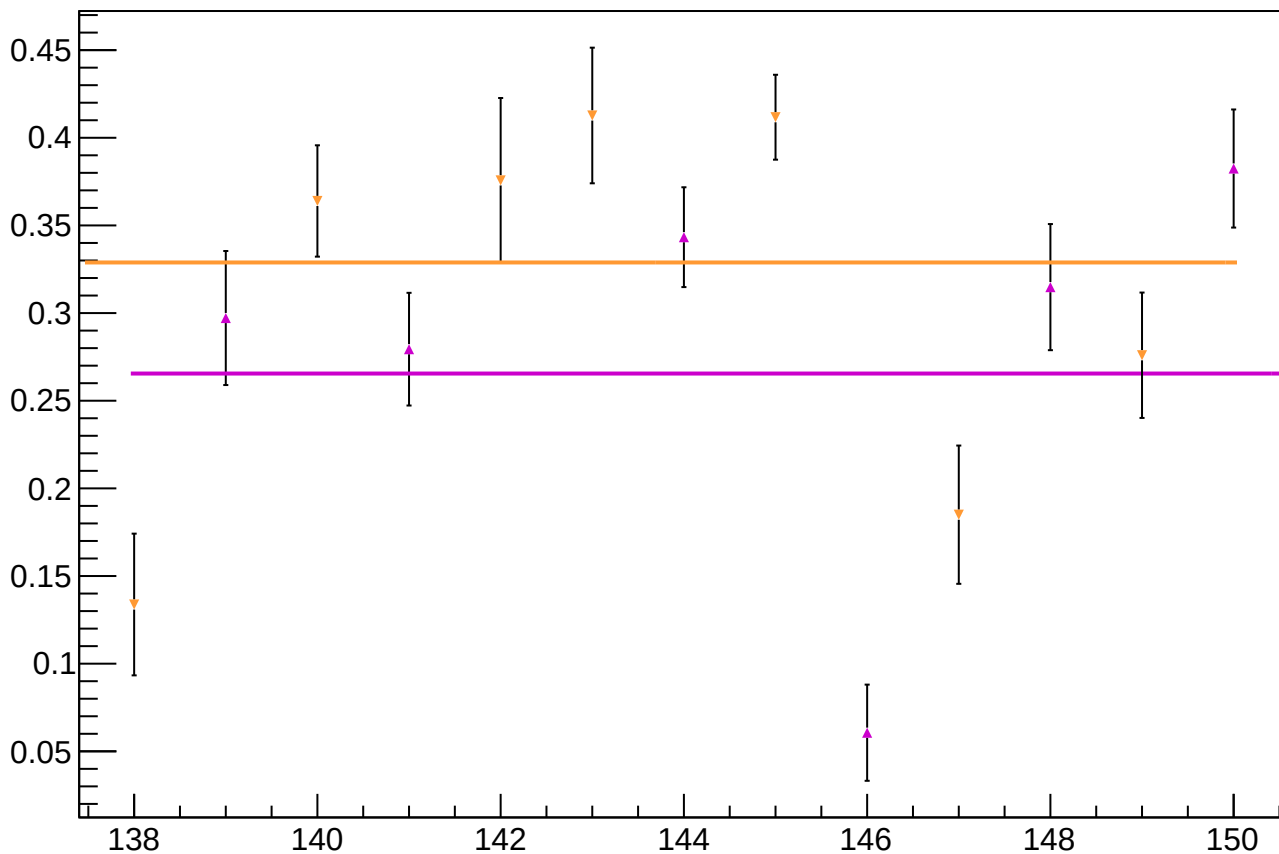
reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 41.481+/-0.260  $\chi^2/\text{NDF}$ :422.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 43.281+/-0.251  $\chi^2/\text{NDF}$ :77.3/5

Left: 42.411+/-0.181  $\chi^2/\text{NDF}$ : 524.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 43.281+/-0.251  $\chi^2/\text{NDF}$ :77.3/5  
 Out: 41.481+/-0.260  $\chi^2/\text{NDF}$ :422.8/6  
 All: 42.411+/-0.181  $\chi^2/\text{NDF}$ : 524.8/12

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.329 $\pm$ 0.013  $\chi^2$ /NDF:57.4/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.266 $\pm$ 0.013  $\chi^2$ /NDF:78.1/5

Left: 0.297 $\pm$ 0.009  $\chi^2$ /NDF: 147.2/12

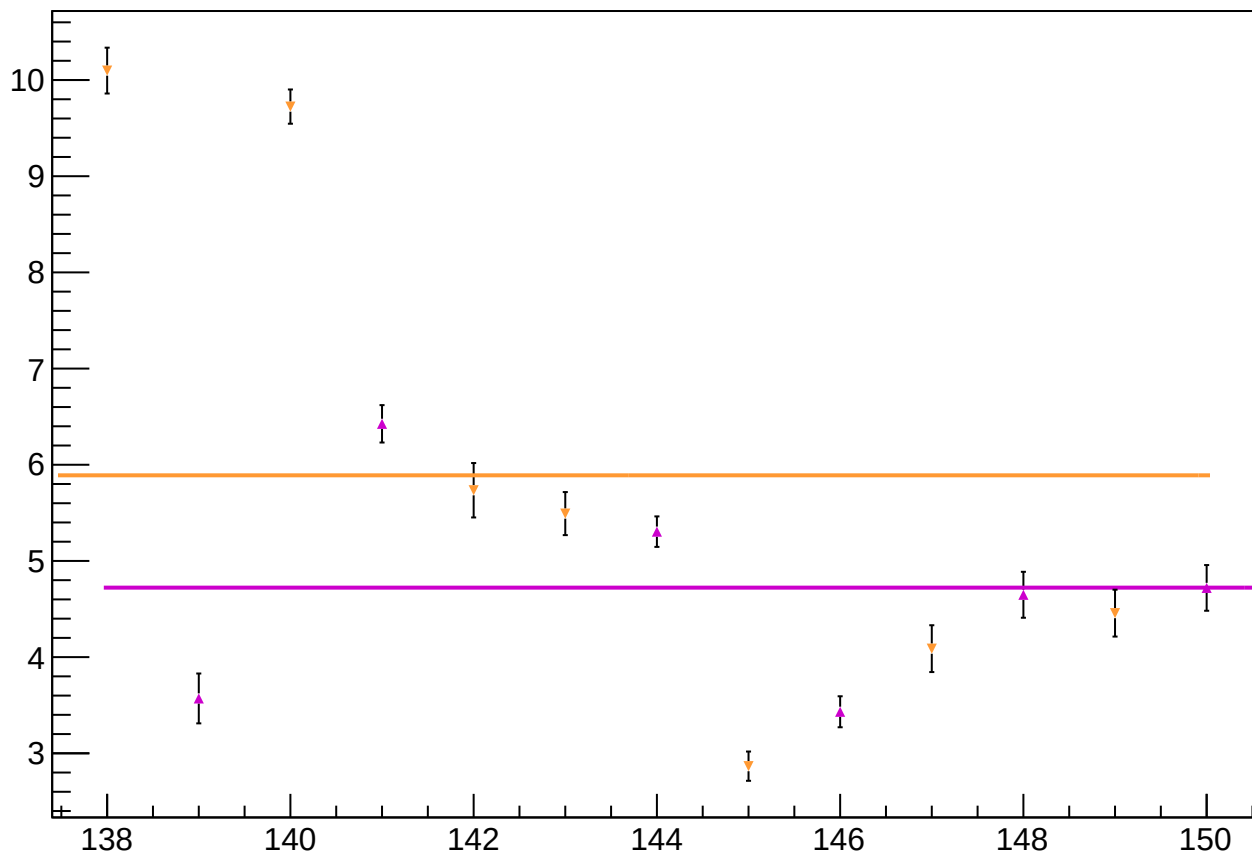
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.266 $\pm$ 0.013  $\chi^2$ /NDF:78.1/5

Out: 0.329 $\pm$ 0.013  $\chi^2$ /NDF:57.4/6

All: 0.297 $\pm$ 0.009  $\chi^2$ /NDF: 147.2/12

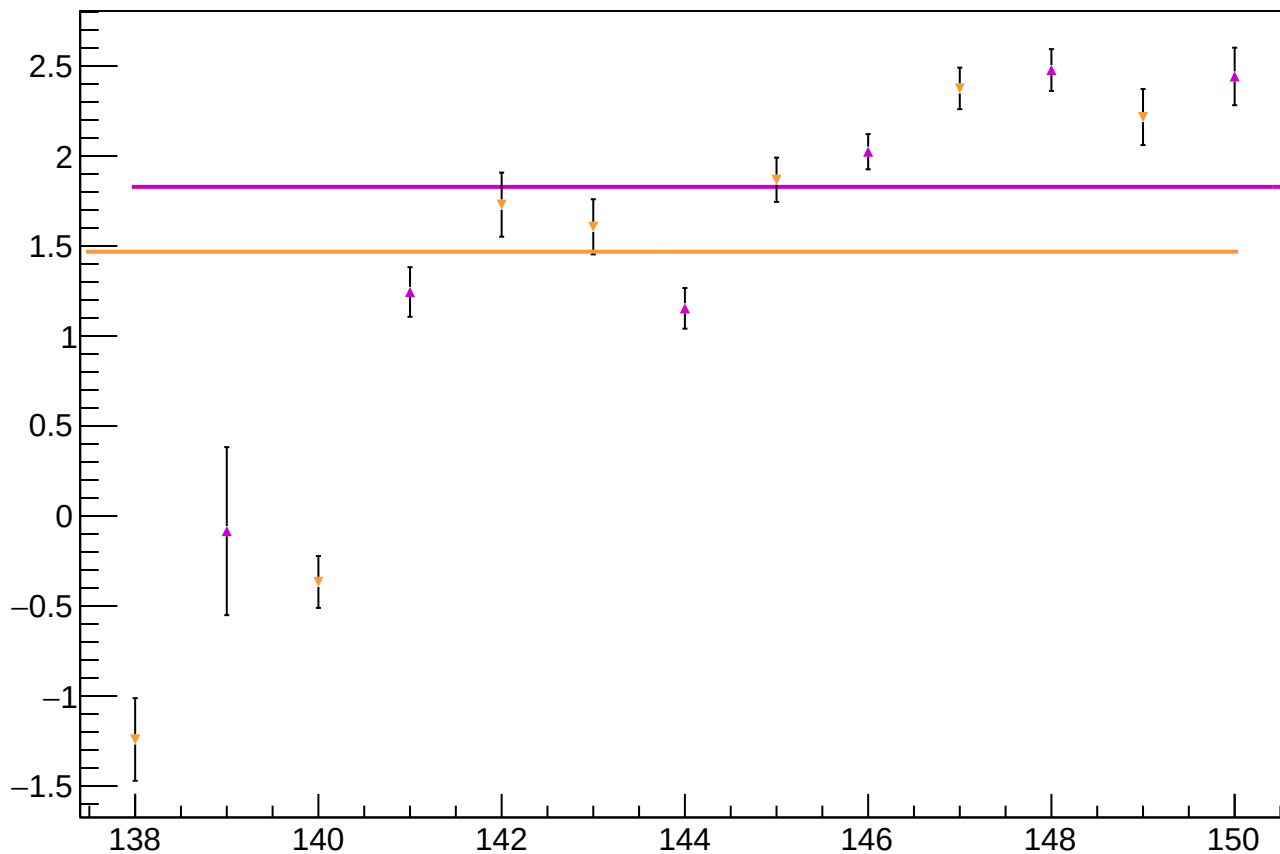
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.890+/-0.079  $\chi^2/\text{NDF}$ :1263.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.722+/-0.080  $\chi^2/\text{NDF}$ :174.2/5

Left: 5.313+/-0.056  $\chi^2/\text{NDF}$ : 1544.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.722+/-0.080  $\chi^2/\text{NDF}$ :174.2/5  
 Out: 5.890+/-0.079  $\chi^2/\text{NDF}$ :1263.3/6  
 All: 5.313+/-0.056  $\chi^2/\text{NDF}$ : 1544.4/12

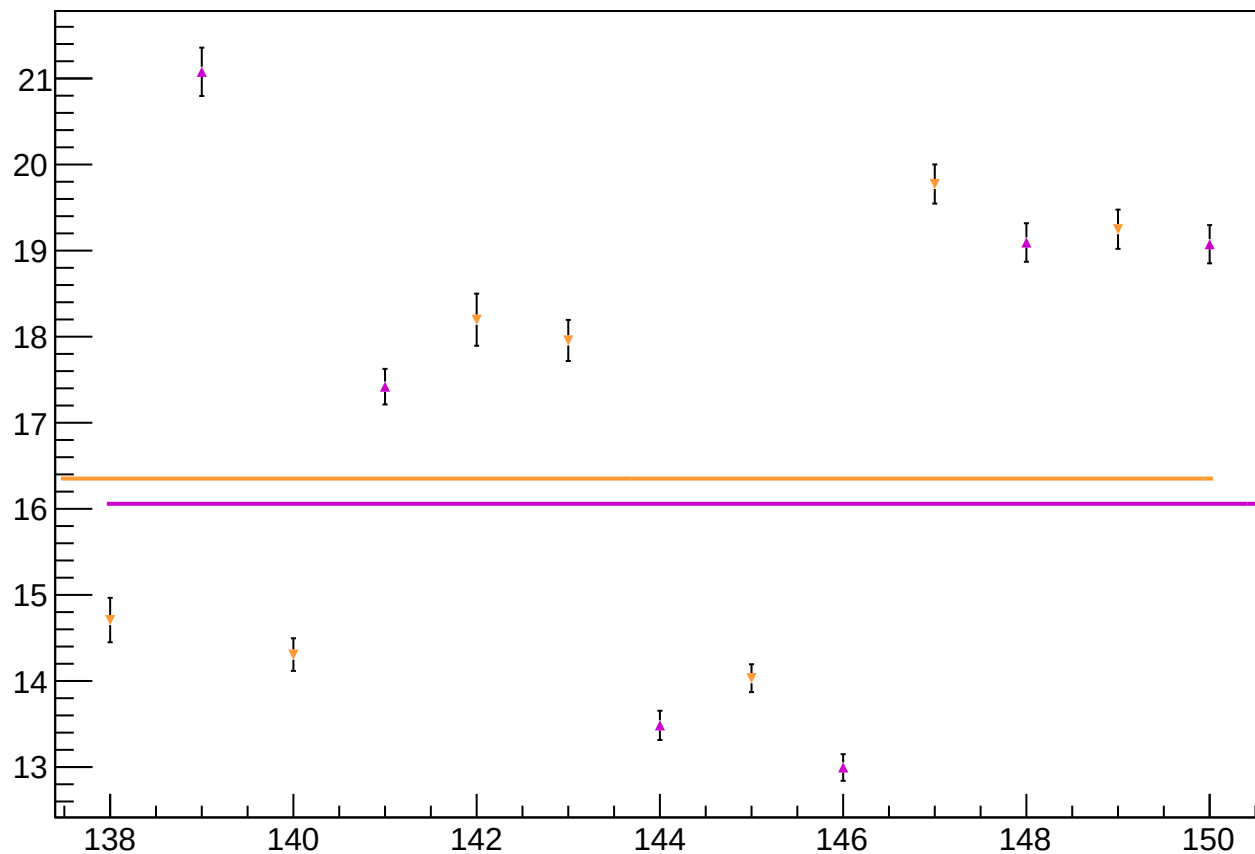
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 1.469+/-0.056  $\chi^2/\text{NDF}$ :399.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.829+/-0.053  $\chi^2/\text{NDF}$ :120.4/5

Left: 1.656+/-0.038  $\chi^2/\text{NDF}$ : 542.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 1.829+/-0.053  $\chi^2/\text{NDF}$ :120.4/5  
 Out: 1.469+/-0.056  $\chi^2/\text{NDF}$ :399.6/6  
 All: 1.656+/-0.038  $\chi^2/\text{NDF}$ : 542.0/12

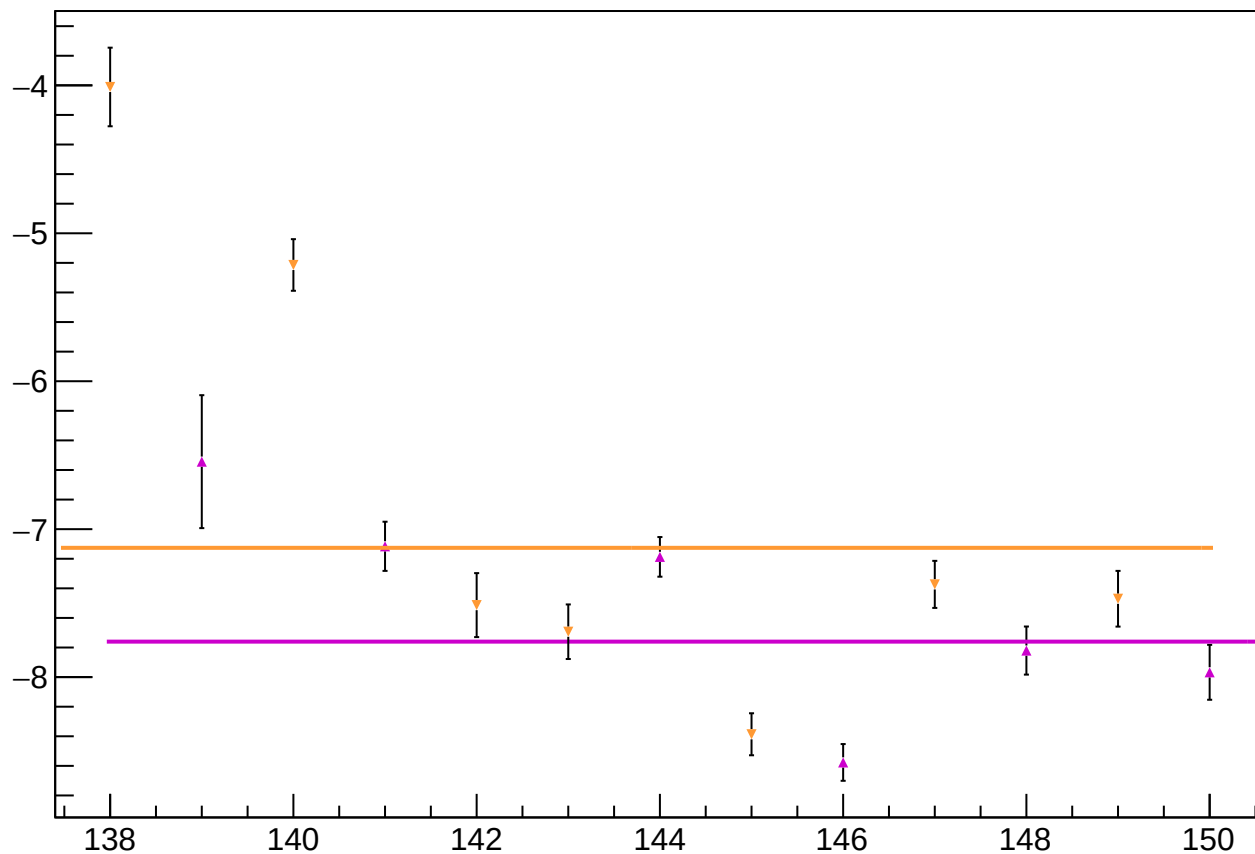
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 16.352+/-0.082  $\chi^2/\text{NDF}$ :833.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 16.059+/-0.081  $\chi^2/\text{NDF}$ :1353.0/5

Left: 16.203+/-0.058  $\chi^2/\text{NDF}$ : 2192.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 16.059+/-0.081  $\chi^2/\text{NDF}$ :1353.0/5  
 Out: 16.352+/-0.082  $\chi^2/\text{NDF}$ :833.3/6  
 All: 16.203+/-0.058  $\chi^2/\text{NDF}$ : 2192.8/12

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.126+/-0.068  $\chi^2/\text{NDF}$ : 354.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -7.760+/-0.066  $\chi^2/\text{NDF}$ : 85.3/5

Left: -7.453+/-0.047  $\chi^2/\text{NDF}$ : 484.6/12

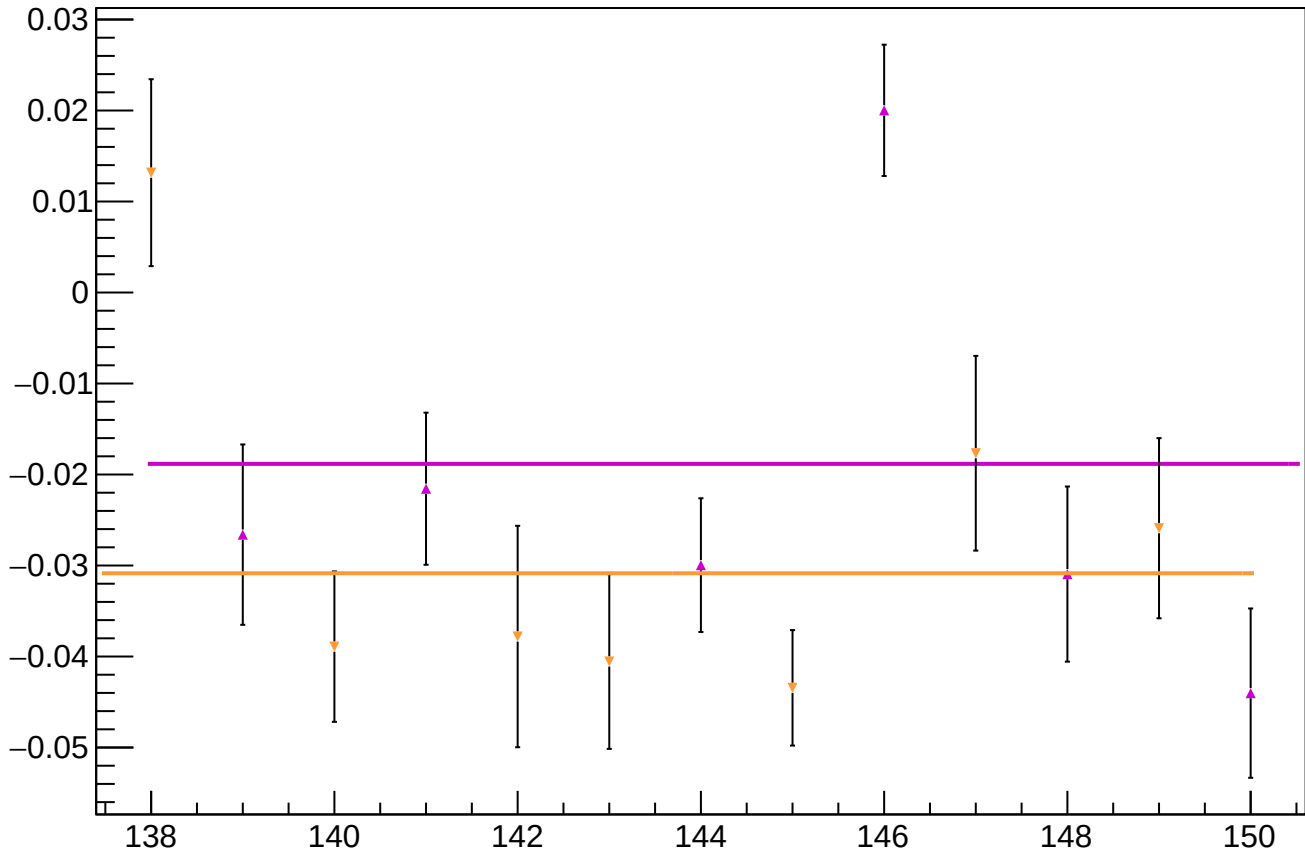
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -7.760+/-0.066  $\chi^2/\text{NDF}$ : 85.3/5

Out: -7.126+/-0.068  $\chi^2/\text{NDF}$ : 354.8/6

All: -7.453+/-0.047  $\chi^2/\text{NDF}$ : 484.6/12

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.031 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 26.4/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.019 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 40.9/5

Left: -0.025 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 73.4/12

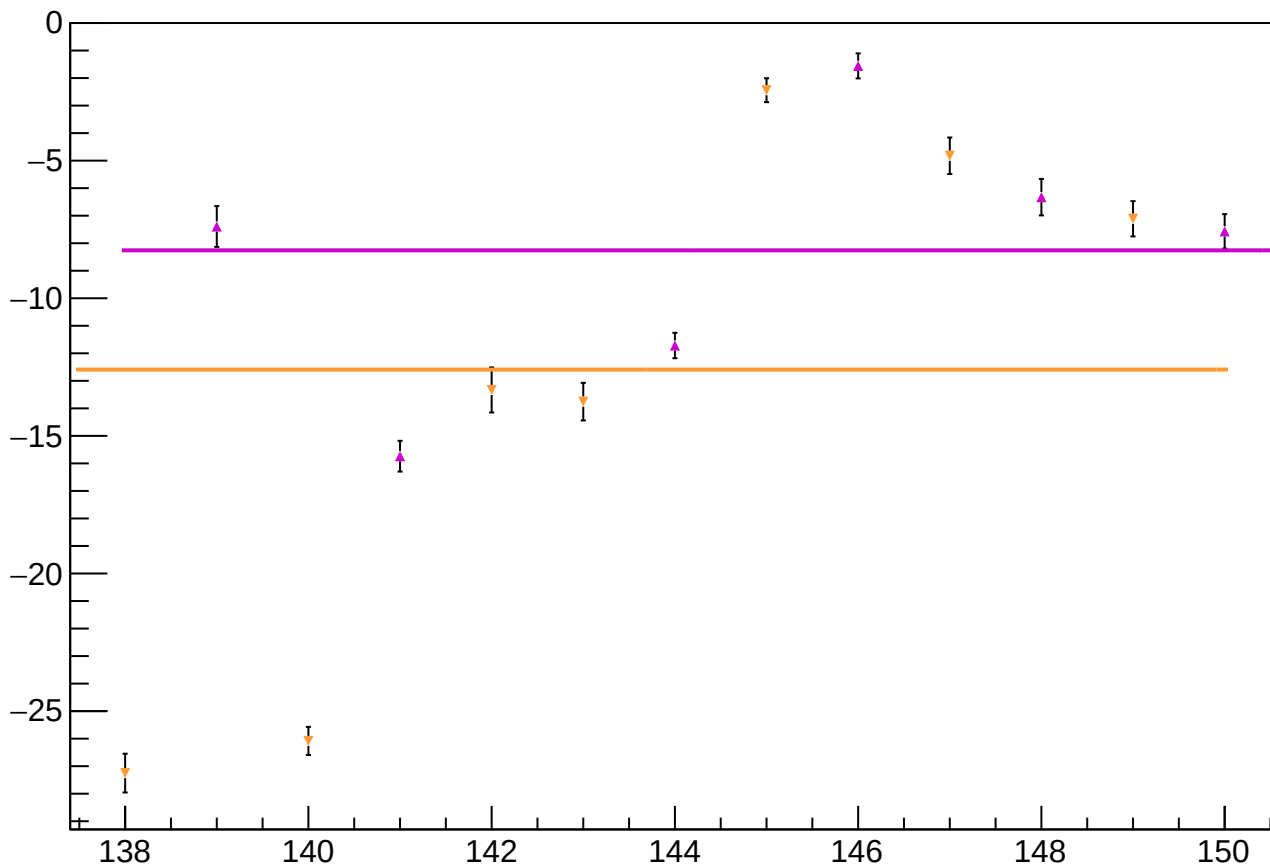
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.019 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 40.9/5

Out: -0.031 $\pm$ 0.003  $\chi^2/\text{NDF}$ : 26.4/6

All: -0.025 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 73.4/12

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -12.592+/-0.226  $\chi^2/\text{NDF}$ :1892.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.259+/-0.227  $\chi^2/\text{NDF}$ :463.9/5

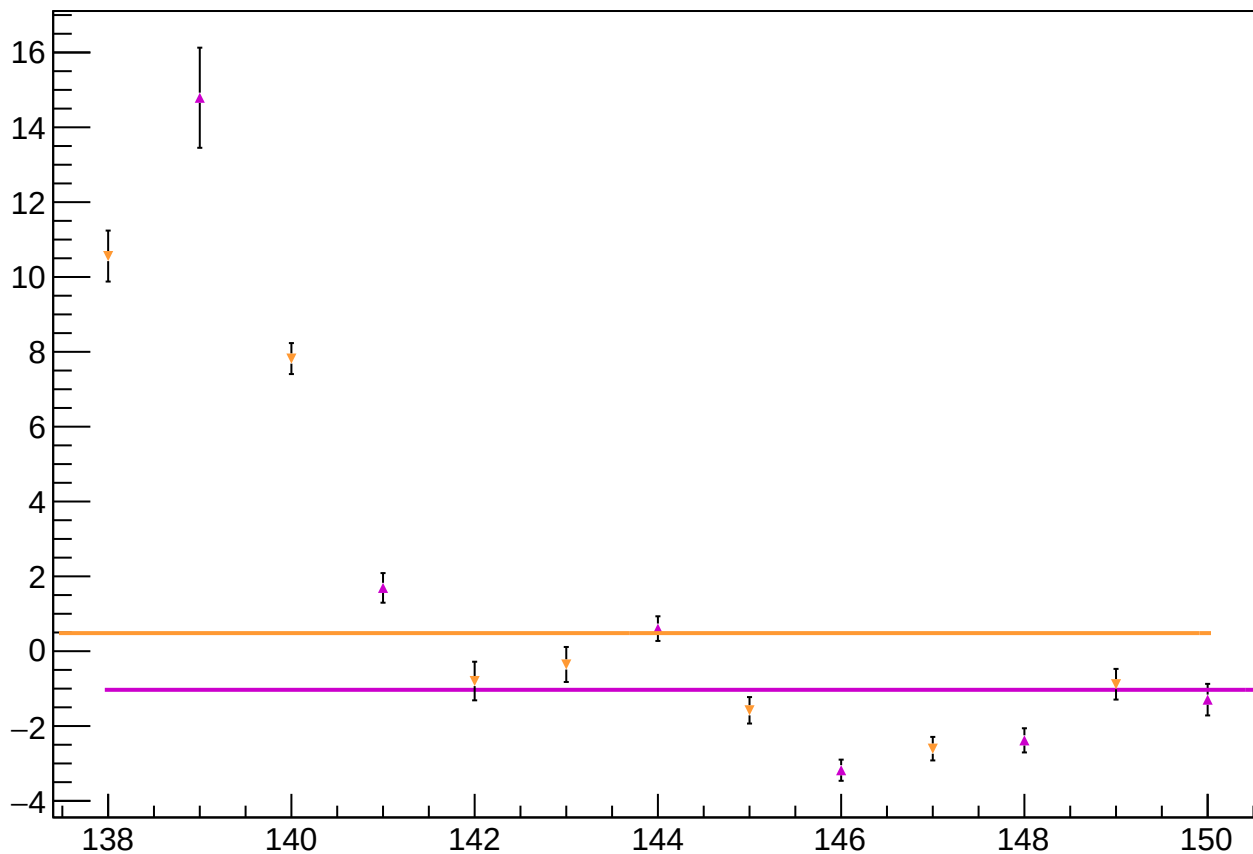
Left: -10.432+/-0.160  $\chi^2/\text{NDF}$ : 2538.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -8.259+/-0.227  $\chi^2/\text{NDF}$ :463.9/5  
 Out: -12.592+/-0.226  $\chi^2/\text{NDF}$ :1892.1/6

All: -10.432+/-0.160  $\chi^2/\text{NDF}$ : 2538.4/12



reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



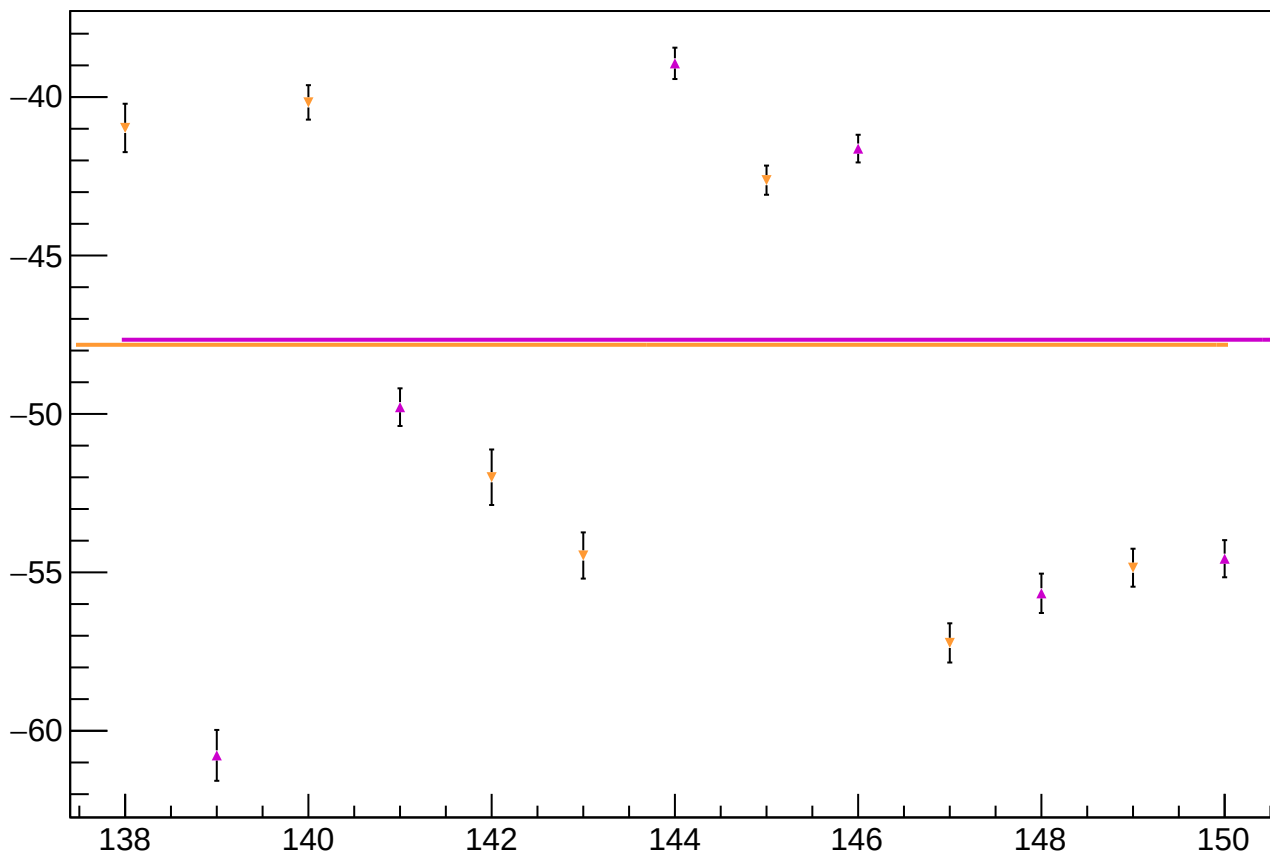
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.483+/-0.157  $\chi^2/\text{NDF}$ : 683.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.032+/-0.151  $\chi^2/\text{NDF}$ : 287.4/5

Left: -0.306+/-0.109  $\chi^2/\text{NDF}$ : 1019.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.032+/-0.151  $\chi^2/\text{NDF}$ : 287.4/5  
 Out: 0.483+/-0.157  $\chi^2/\text{NDF}$ : 683.7/6

All: -0.306+/-0.109  $\chi^2/\text{NDF}$ : 1019.4/12

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -47.818+/-0.233  $\chi^2/\text{NDF}$ :880.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -47.658+/-0.228  $\chi^2/\text{NDF}$ :1086.8/5

Left: -47.736+/-0.163  $\chi^2/\text{NDF}$ : 1967.8/12

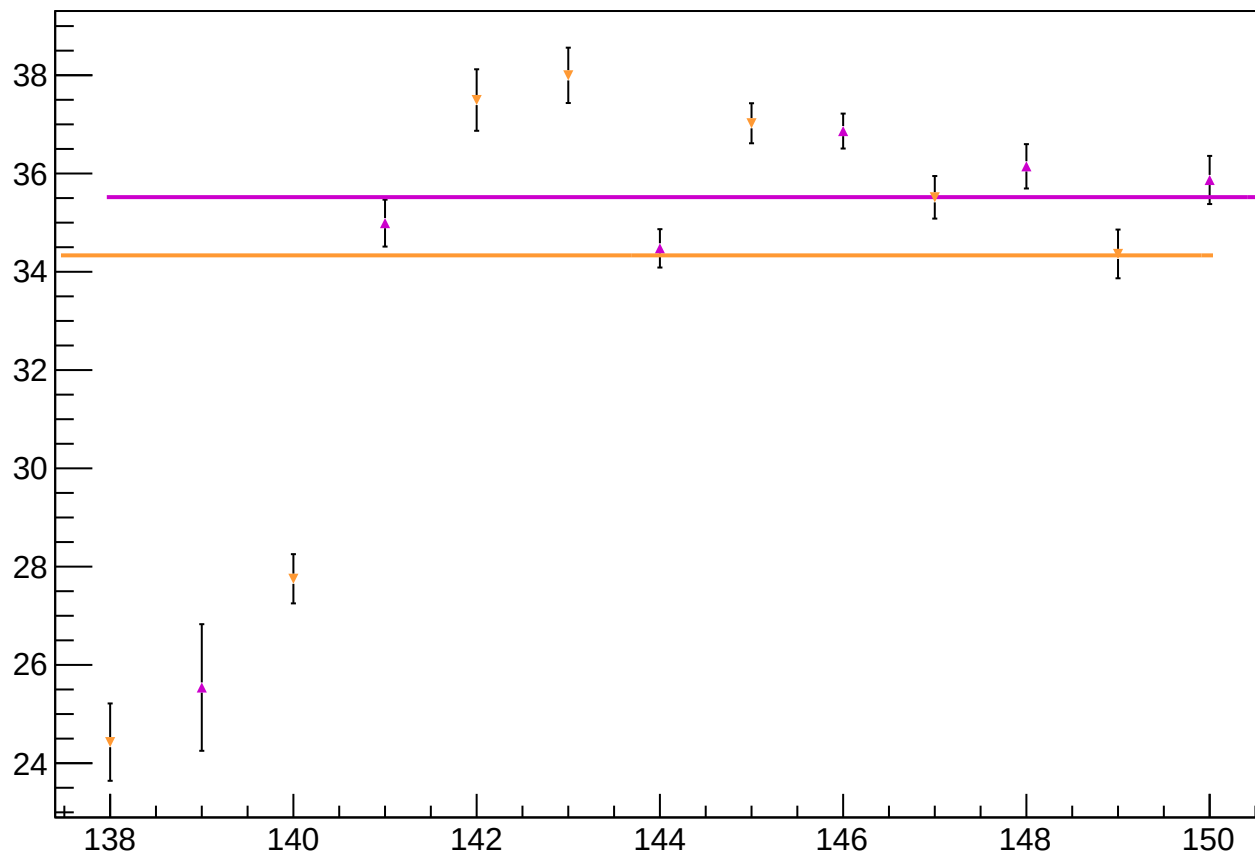
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -47.658+/-0.228  $\chi^2/\text{NDF}$ :1086.8/5

Out: -47.818+/-0.233  $\chi^2/\text{NDF}$ :880.7/6

All: -47.736+/-0.163  $\chi^2/\text{NDF}$ : 1967.8/12

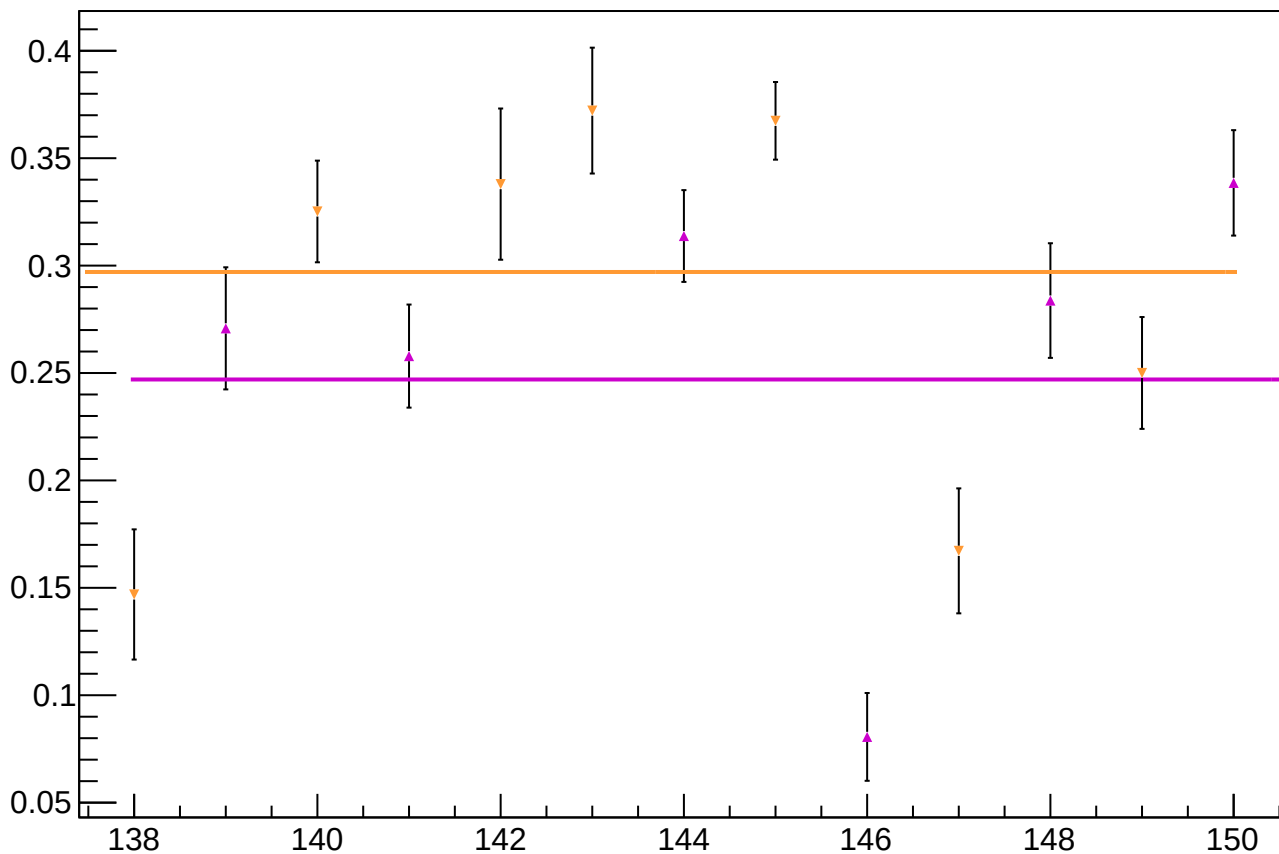
reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 34.334 $\pm$ 0.193  $\chi^2$ /NDF:449.9/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 35.519 $\pm$ 0.187  $\chi^2$ /NDF:85.1/5

Left: 34.946 $\pm$ 0.135  $\chi^2$ /NDF: 554.4/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 35.519 $\pm$ 0.187  $\chi^2$ /NDF:85.1/5  
 Out: 34.334 $\pm$ 0.193  $\chi^2$ /NDF:449.9/6  
 All: 34.946 $\pm$ 0.135  $\chi^2$ /NDF: 554.4/12

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.297+/-0.010  $\chi^2/\text{NDF}$ : 72.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.247+/-0.010  $\chi^2/\text{NDF}$ : 92.8/5

Left: 0.272+/-0.007  $\chi^2/\text{NDF}$ : 178.3/12

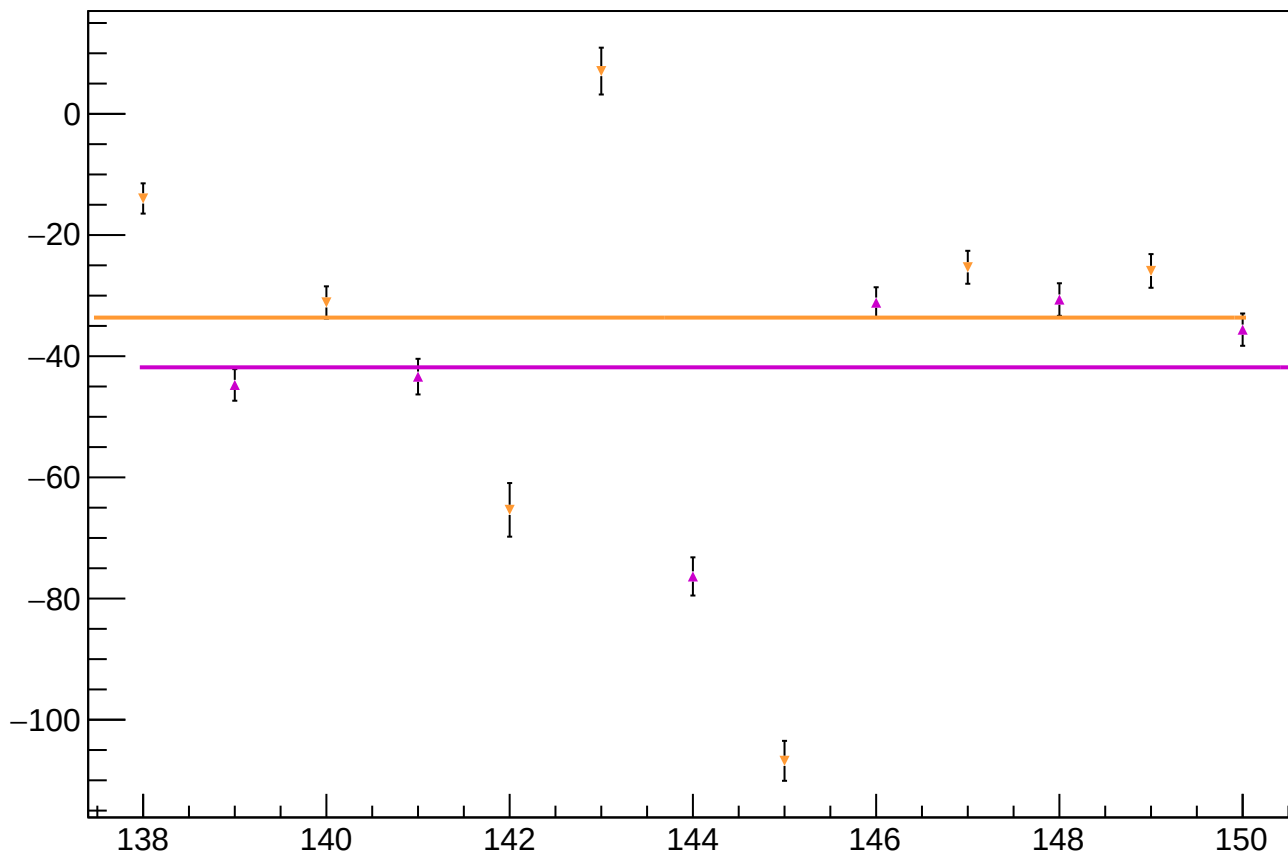
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.247+/-0.010  $\chi^2/\text{NDF}$ : 92.8/5

Out: 0.297+/-0.010  $\chi^2/\text{NDF}$ : 72.2/6

All: 0.272+/-0.007  $\chi^2/\text{NDF}$ : 178.3/12

reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.625+/-1.134  $\chi^2/\text{NDF}$ :734.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -41.833+/-1.120  $\chi^2/\text{NDF}$ :161.8/5

Left: -37.782+/-0.797  $\chi^2/\text{NDF}$ : 923.0/12

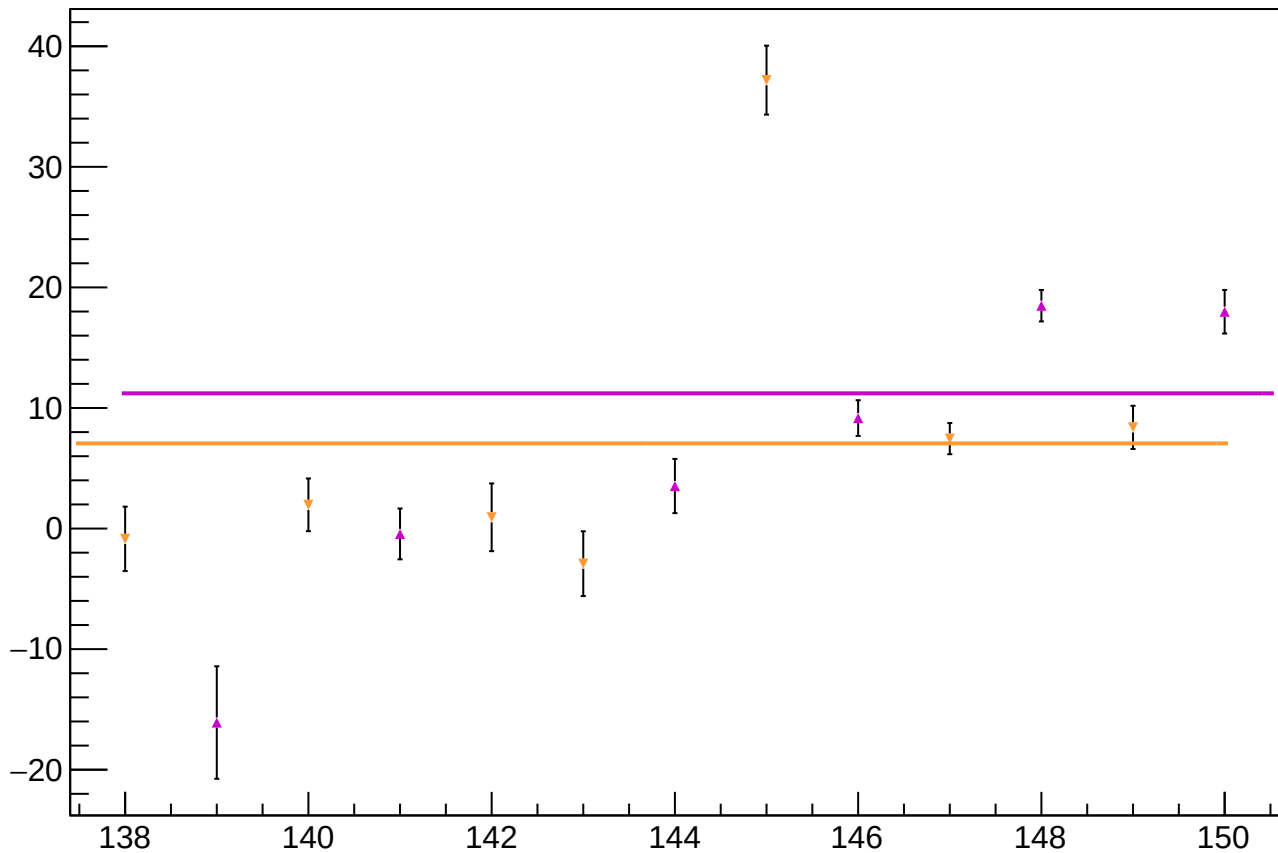
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -41.833+/-1.120  $\chi^2/\text{NDF}$ :161.8/5

Out: -33.625+/-1.134  $\chi^2/\text{NDF}$ :734.7/6

All: -37.782+/-0.797  $\chi^2/\text{NDF}$ : 923.0/12

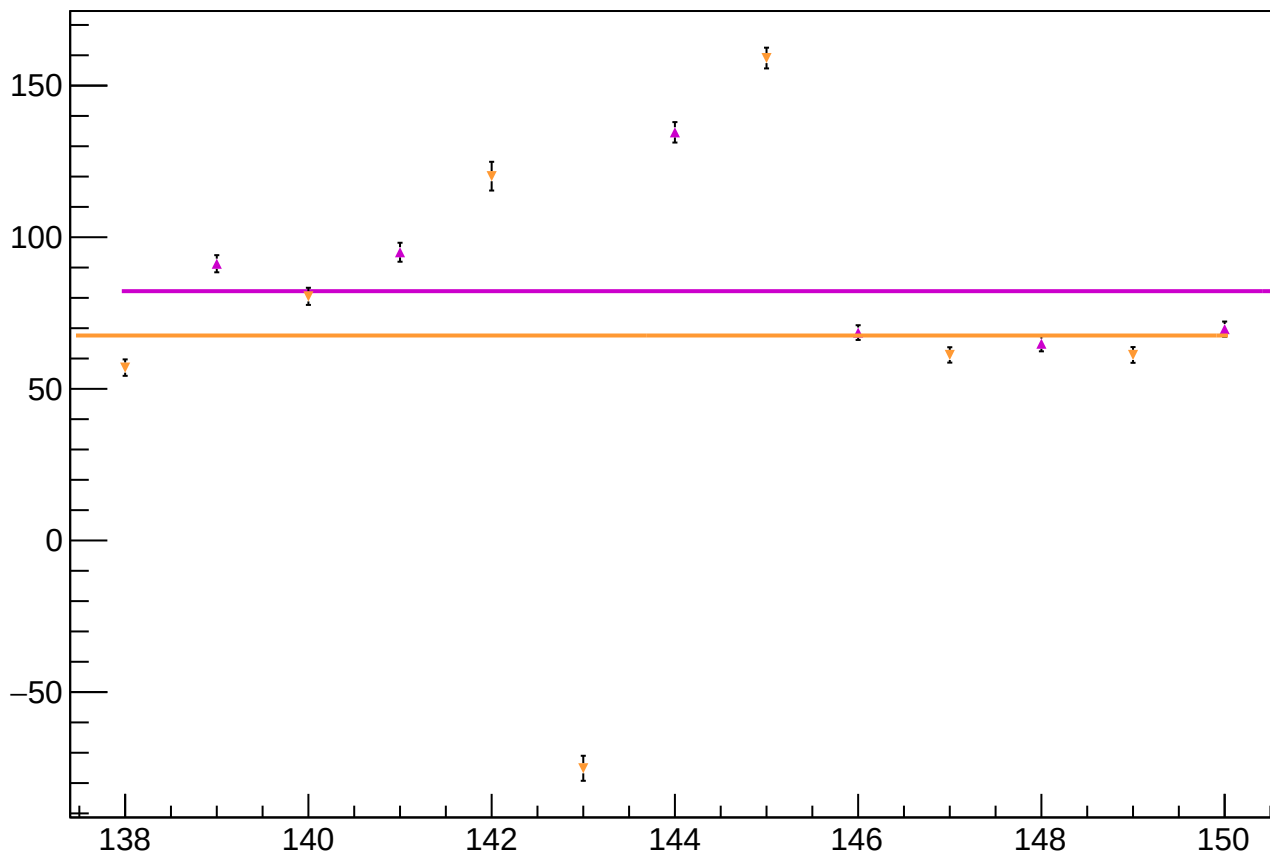
reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.066+/-0.779     $\chi^2/\text{NDF}$ :144.5/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 11.216+/-0.742     $\chi^2/\text{NDF}$ :123.5/5

Left: 9.242+/-0.537     $\chi^2/\text{NDF}$ : 282.8/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 11.216+/-0.742     $\chi^2/\text{NDF}$ :123.5/5  
 Out: 7.066+/-0.779     $\chi^2/\text{NDF}$ :144.5/6  
 All: 9.242+/-0.537     $\chi^2/\text{NDF}$ : 282.8/12

reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 67.592+/-1.152  $\chi^2/\text{NDF}$ :2082.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 82.214+/-1.116  $\chi^2/\text{NDF}$ :372.6/5

Left: 75.137+/-0.802  $\chi^2/\text{NDF}$ : 2538.1/12

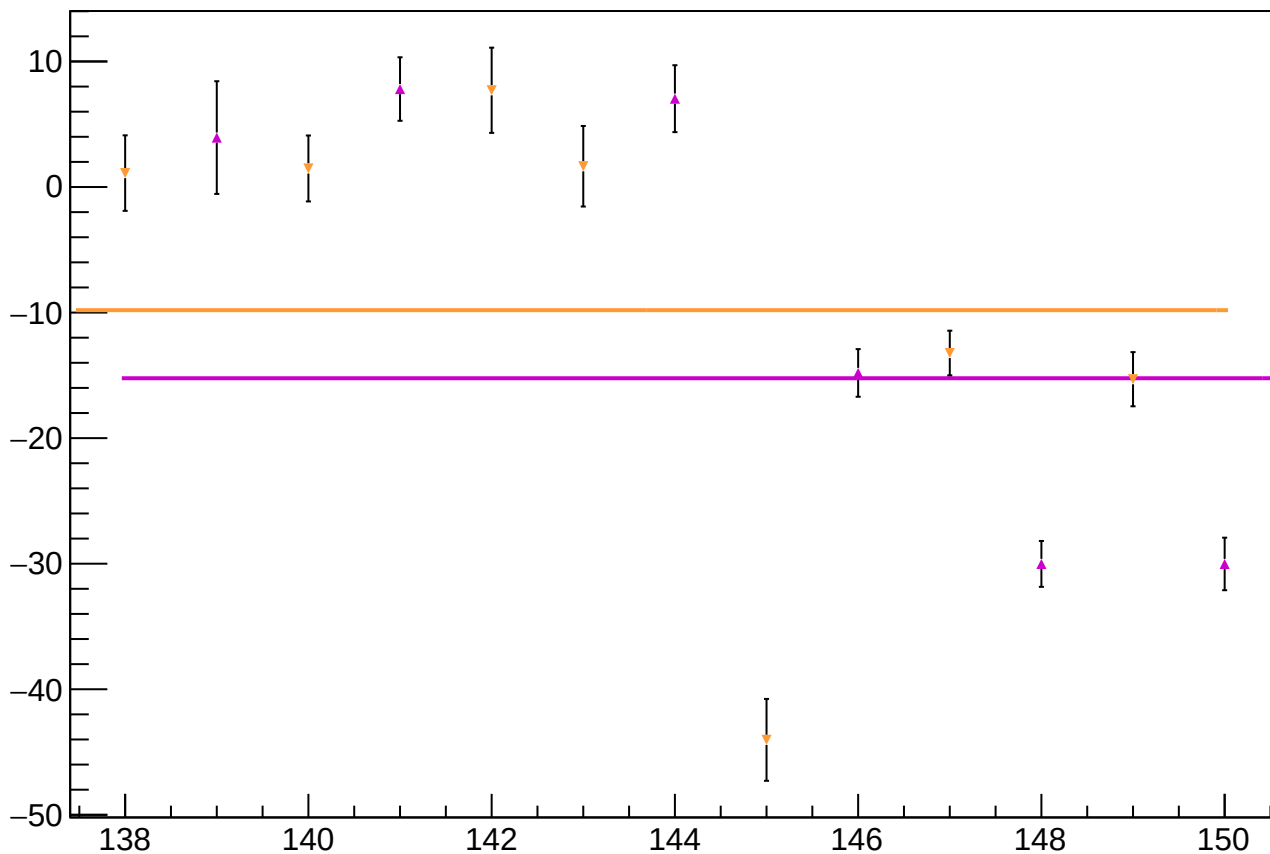
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 82.214+/-1.116  $\chi^2/\text{NDF}$ :372.6/5

Out: 67.592+/-1.152  $\chi^2/\text{NDF}$ :2082.4/6

All: 75.137+/-0.802  $\chi^2/\text{NDF}$ : 2538.1/12

reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -9.809+/-0.969  $\chi^2/\text{NDF}$ :191.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -15.230+/-0.931  $\chi^2/\text{NDF}$ :286.6/5

Left: -12.627+/-0.672  $\chi^2/\text{NDF}$ : 494.2/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

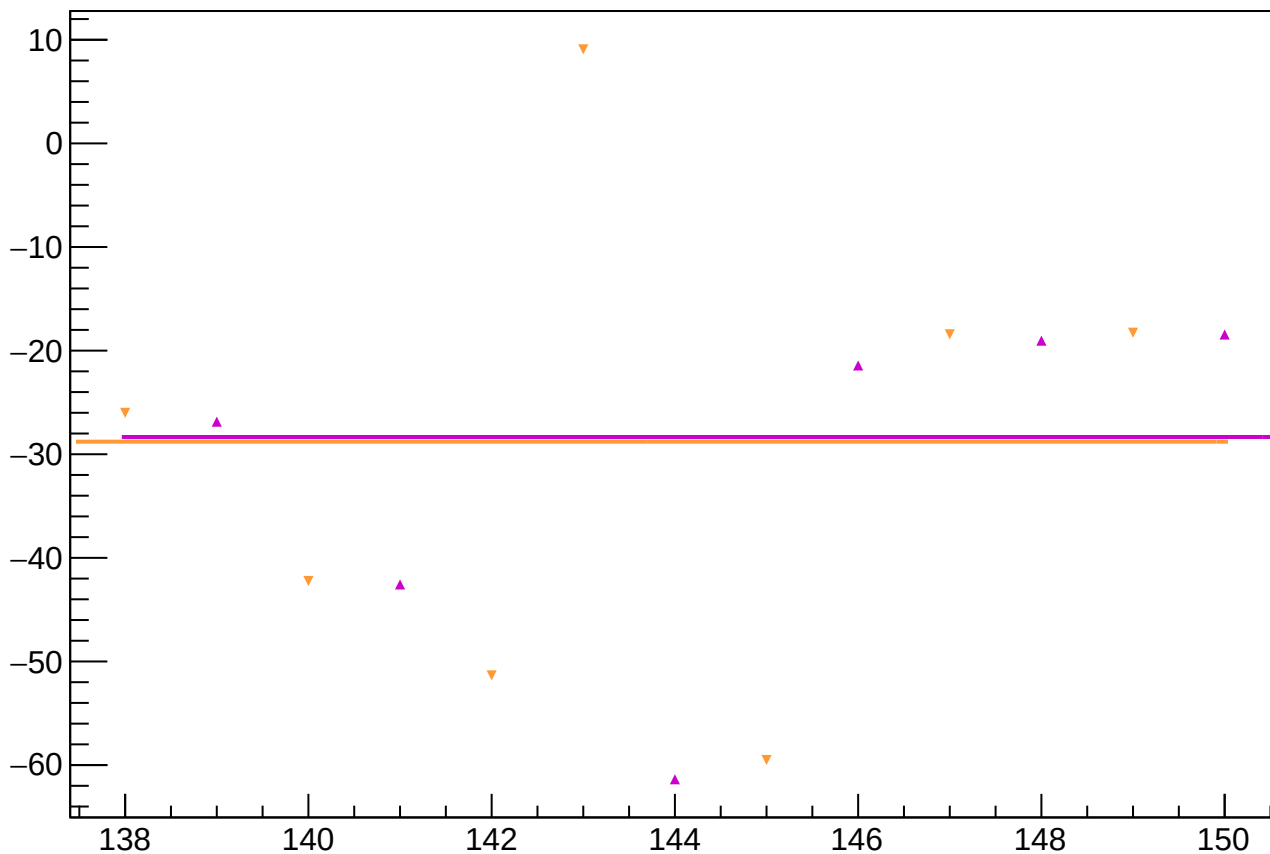
In: -15.230+/-0.931  $\chi^2/\text{NDF}$ :286.6/5

Out: -9.809+/-0.969  $\chi^2/\text{NDF}$ :191.4/6

All: -12.627+/-0.672  $\chi^2/\text{NDF}$ : 494.2/12



reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -28.787+/-0.049  $\chi^2/\text{NDF}$ :147219.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -28.334+/-0.046  $\chi^2/\text{NDF}$ :83238.4/5

Left: -28.550+/-0.033  $\chi^2/\text{NDF}$ : 230503.0/12

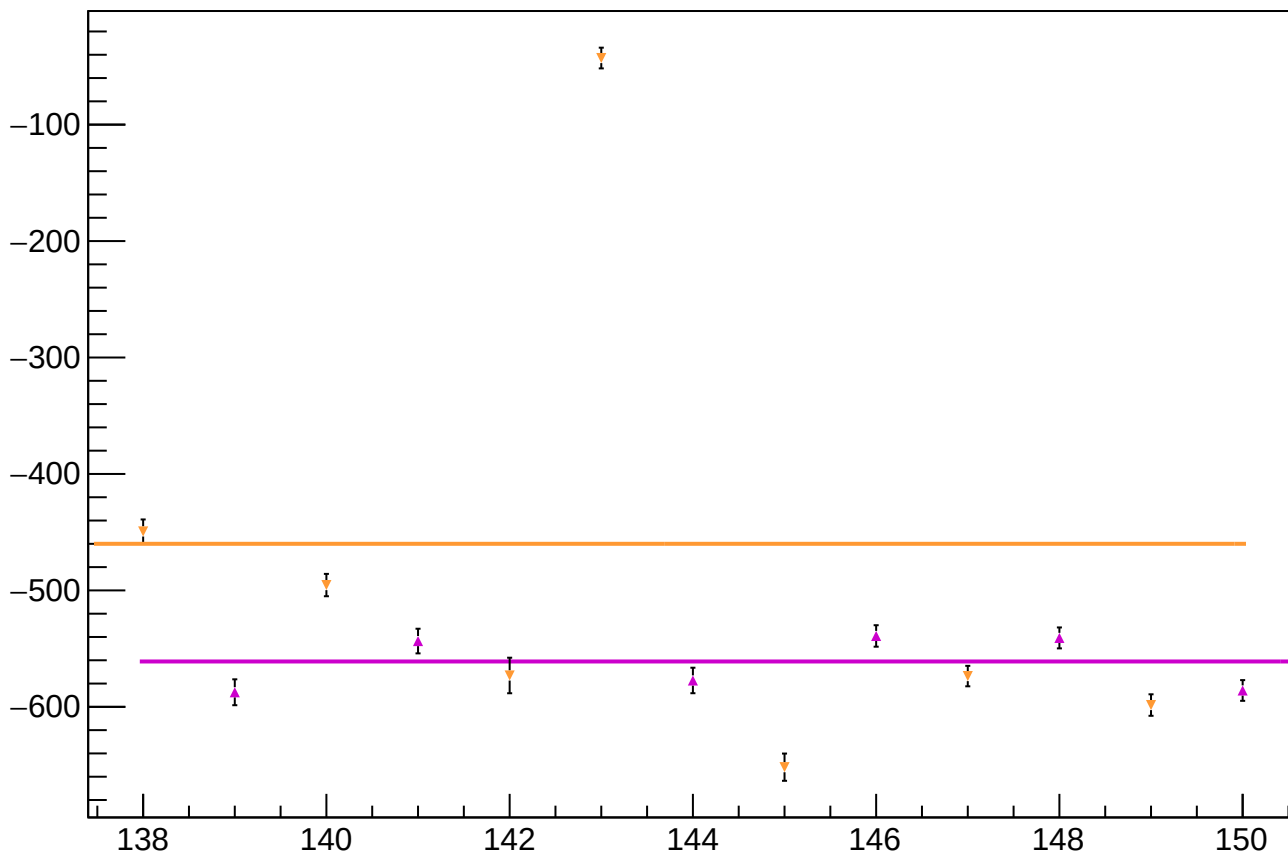
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -28.334+/-0.046  $\chi^2/\text{NDF}$ :83238.4/5

Out: -28.787+/-0.049  $\chi^2/\text{NDF}$ :147219.0/6

All: -28.550+/-0.033  $\chi^2/\text{NDF}$ : 230503.0/12

reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -459.984+/-3.801  $\chi^2/\text{NDF}$ : 2928.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -561.037+/-4.011  $\chi^2/\text{NDF}$ : 29.2/5

Left: -507.793+/-2.759  $\chi^2/\text{NDF}$ : 3291.7/12

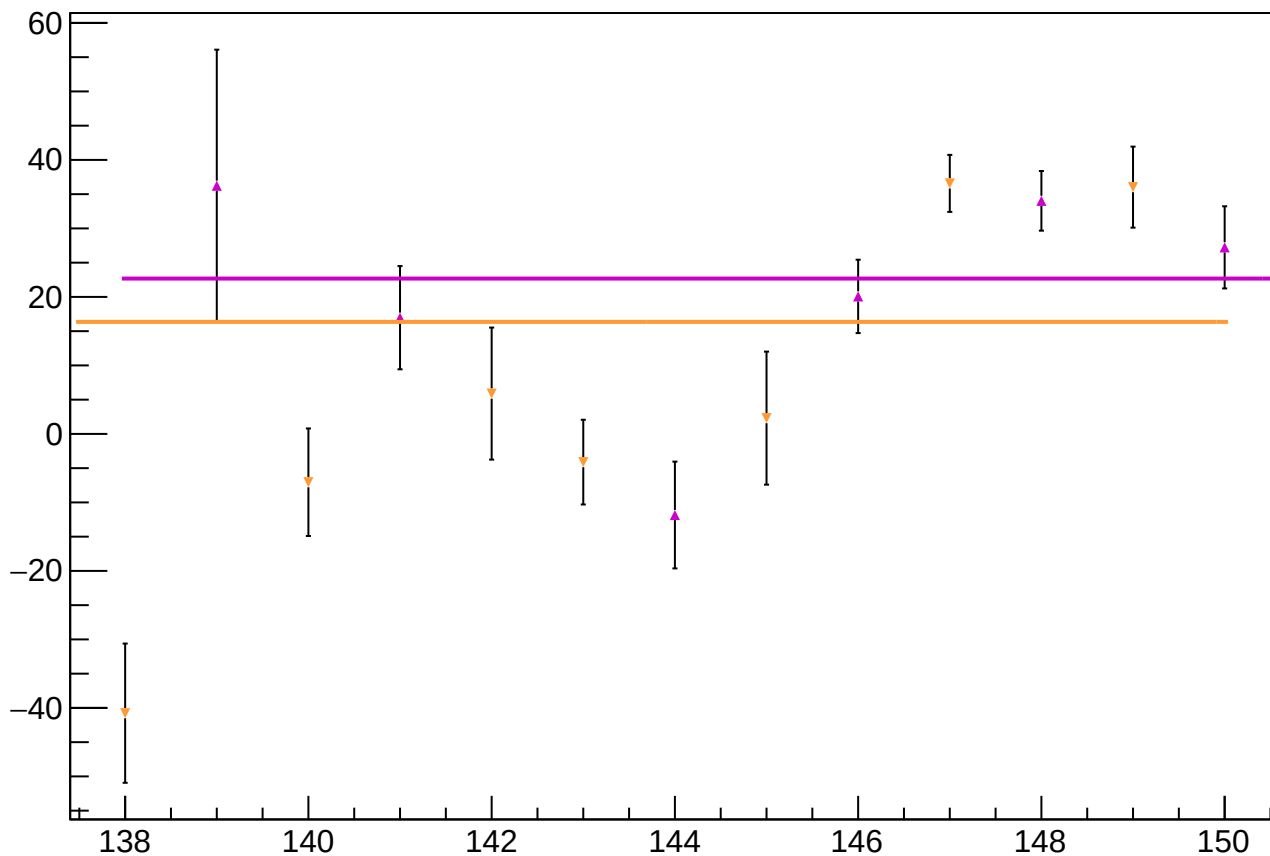
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -561.037+/-4.011  $\chi^2/\text{NDF}$ : 29.2/5

Out: -459.984+/-3.801  $\chi^2/\text{NDF}$ : 2928.1/6

All: -507.793+/-2.759  $\chi^2/\text{NDF}$ : 3291.7/12

reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 16.356+/-2.502  $\chi^2/\text{NDF}$ :89.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 22.679+/-2.565  $\chi^2/\text{NDF}$ :28.2/5

Left: 19.439+/-1.791  $\chi^2/\text{NDF}$ : 120.7/12

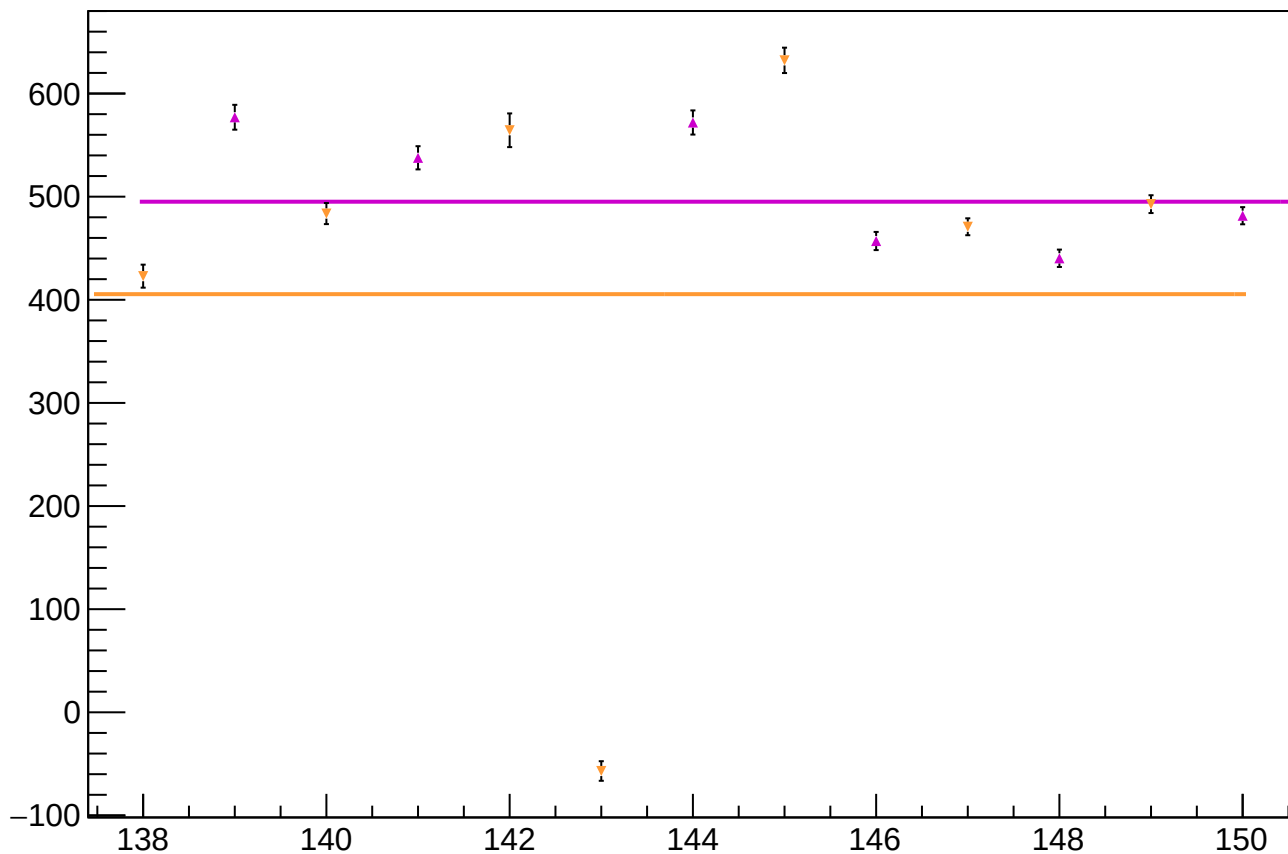
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 22.679+/-2.565  $\chi^2/\text{NDF}$ :28.2/5

Out: 16.356+/-2.502  $\chi^2/\text{NDF}$ :89.4/6

All: 19.439+/-1.791  $\chi^2/\text{NDF}$ : 120.7/12

reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 405.471+/-3.854  $\chi^2/\text{NDF}$ :3029.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 495.117+/-3.968  $\chi^2/\text{NDF}$ :167.3/5

Left: 448.987+/-2.765  $\chi^2/\text{NDF}$ : 3459.8/12

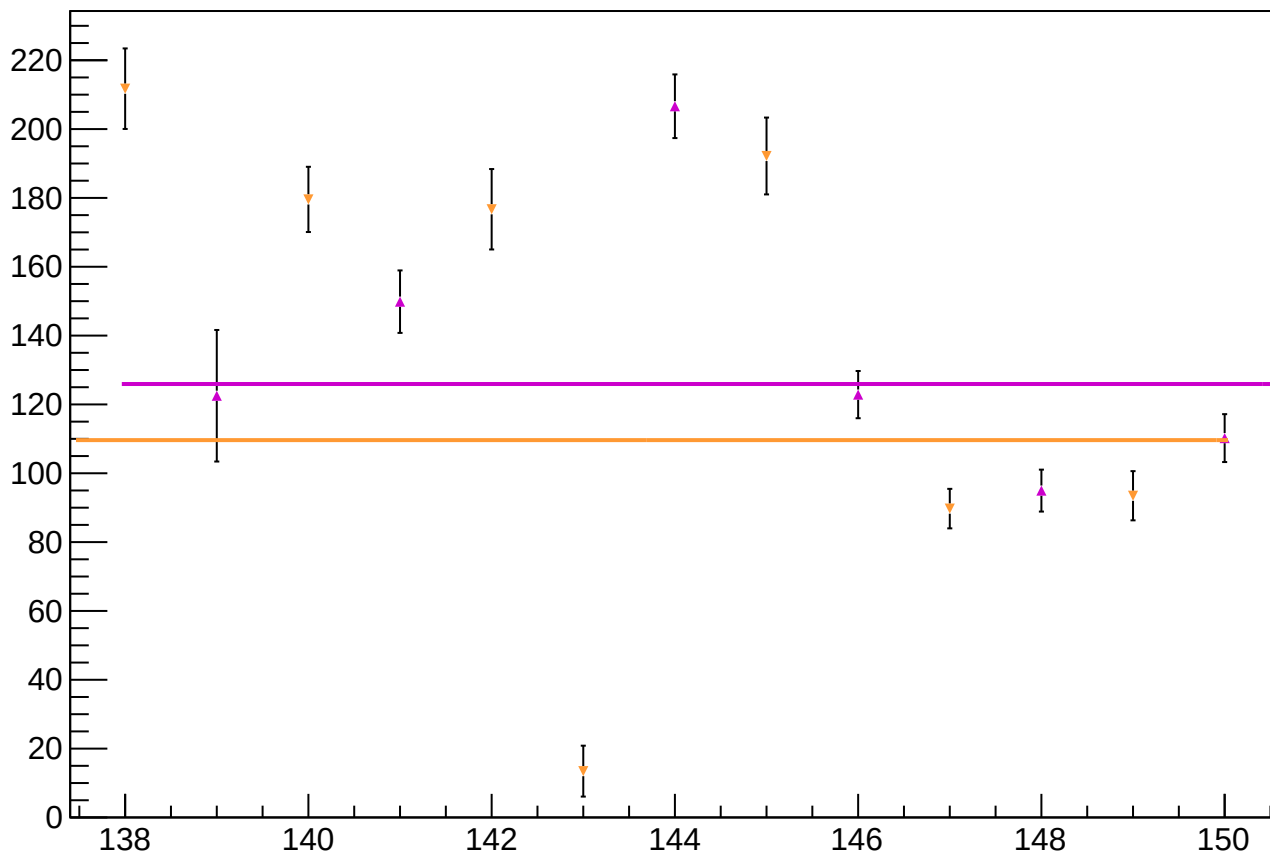
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 495.117+/-3.968  $\chi^2/\text{NDF}$ :167.3/5

Out: 405.471+/-3.854  $\chi^2/\text{NDF}$ :3029.8/6

All: 448.987+/-2.765  $\chi^2/\text{NDF}$ : 3459.8/12

reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 109.630+/-3.131  $\chi^2/\text{NDF}$ :404.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 125.933+/-3.237  $\chi^2/\text{NDF}$ :114.3/5

Left: 117.510+/-2.251  $\chi^2/\text{NDF}$ : 531.9/12

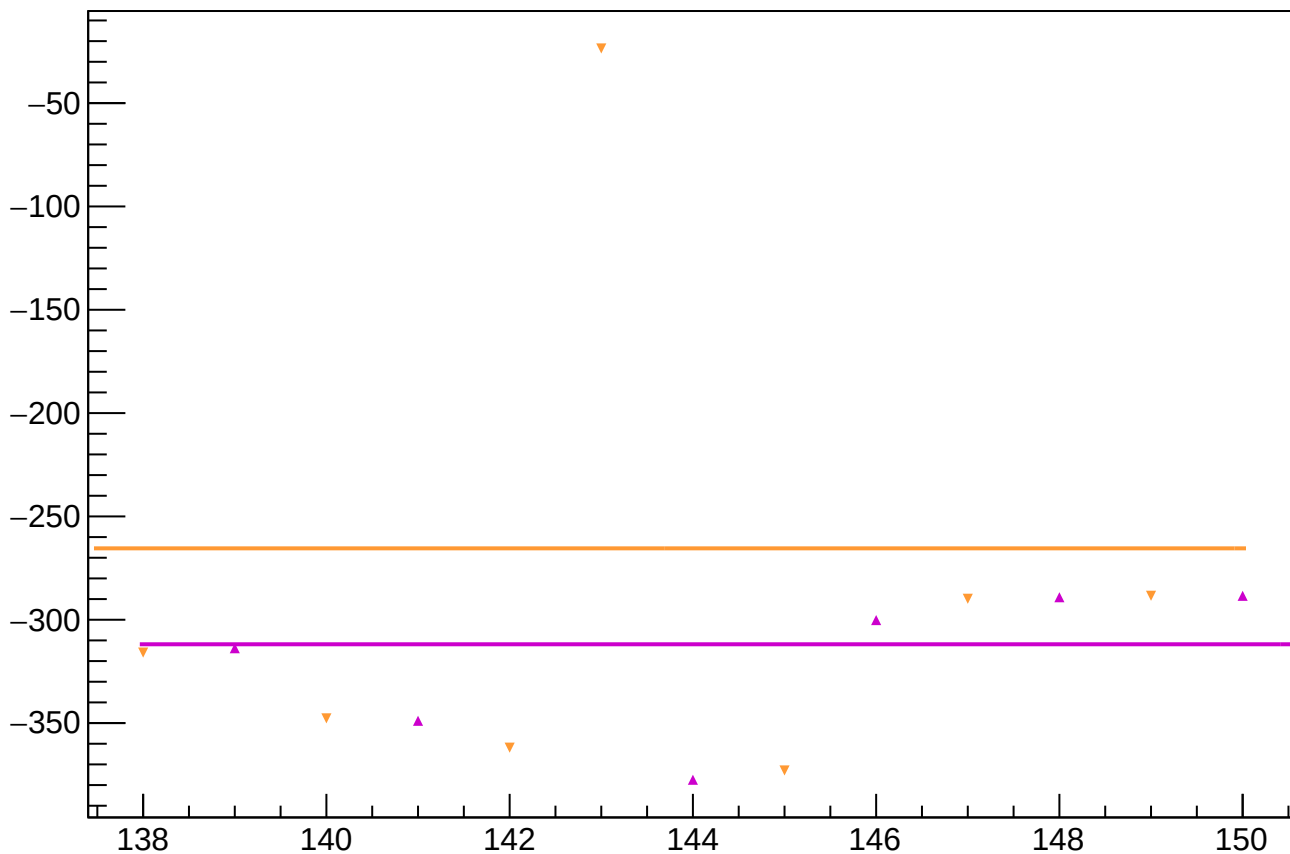
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 125.933+/-3.237  $\chi^2/\text{NDF}$ :114.3/5

Out: 109.630+/-3.131  $\chi^2/\text{NDF}$ :404.5/6

All: 117.510+/-2.251  $\chi^2/\text{NDF}$ : 531.9/12

reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -265.451+/-0.164  $\chi^2/\text{NDF}$ :530082.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -311.869+/-0.166  $\chi^2/\text{NDF}$ :32320.9/5

Left: -288.284+/-0.117  $\chi^2/\text{NDF}$ : 602010.9/12

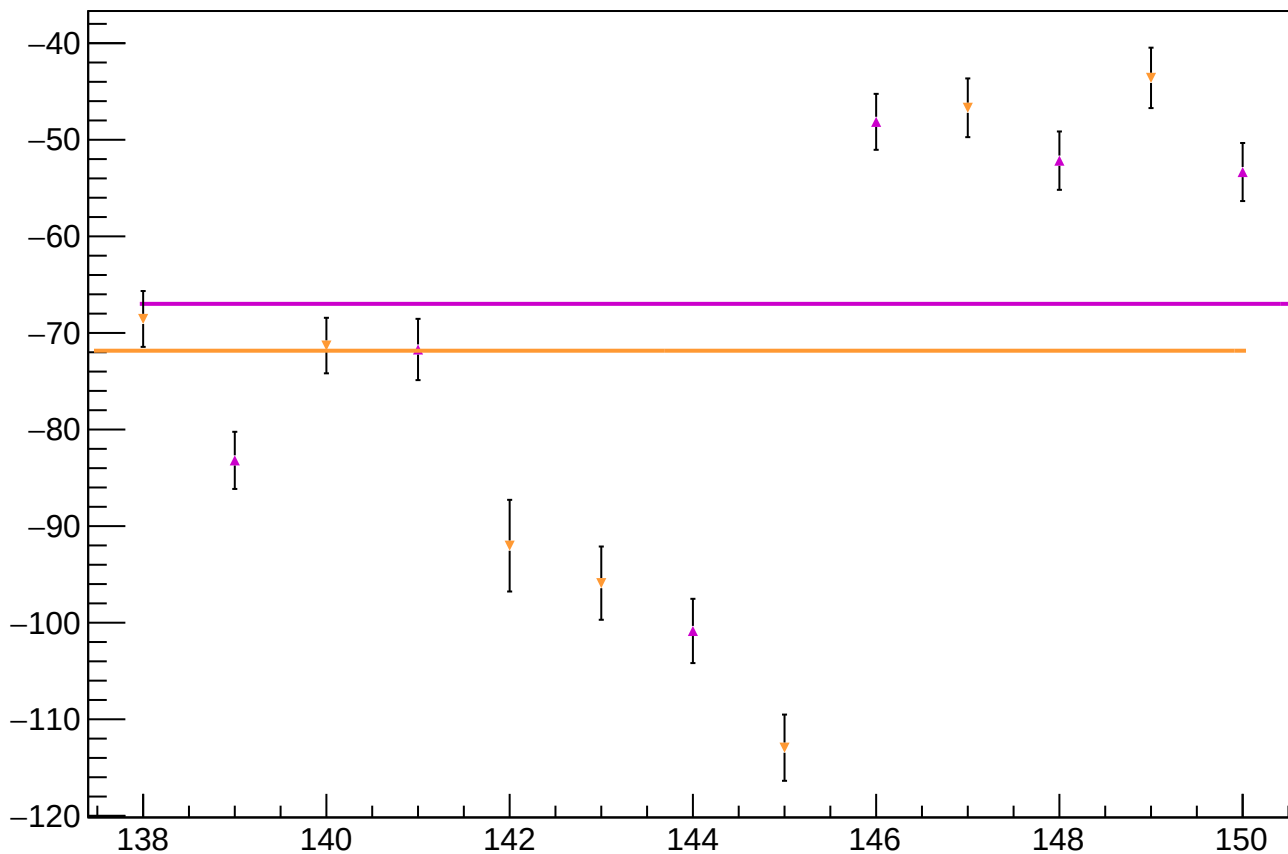
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -311.869+/-0.166  $\chi^2/\text{NDF}$ :32320.9/5

Out: -265.451+/-0.164  $\chi^2/\text{NDF}$ :530082.0/6

All: -288.284+/-0.117  $\chi^2/\text{NDF}$ : 602010.9/12

reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -71.839+/-1.240  $\chi^2/\text{NDF}$ :353.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -66.988+/-1.247  $\chi^2/\text{NDF}$ :222.9/5

Left: -69.426+/-0.879  $\chi^2/\text{NDF}$ : 583.9/12

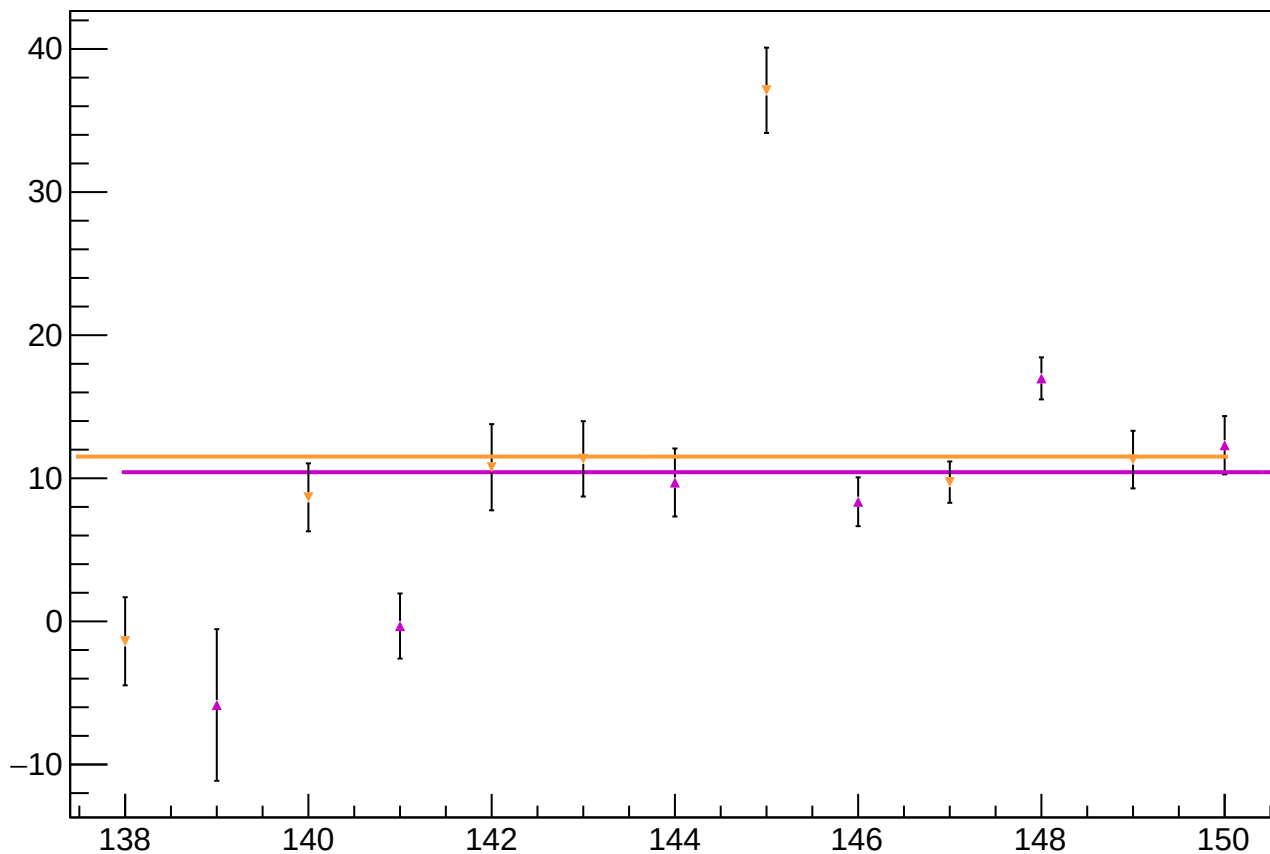
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -66.988+/-1.247  $\chi^2/\text{NDF}$ :222.9/5

Out: -71.839+/-1.240  $\chi^2/\text{NDF}$ :353.4/6

All: -69.426+/-0.879  $\chi^2/\text{NDF}$ : 583.9/12

reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

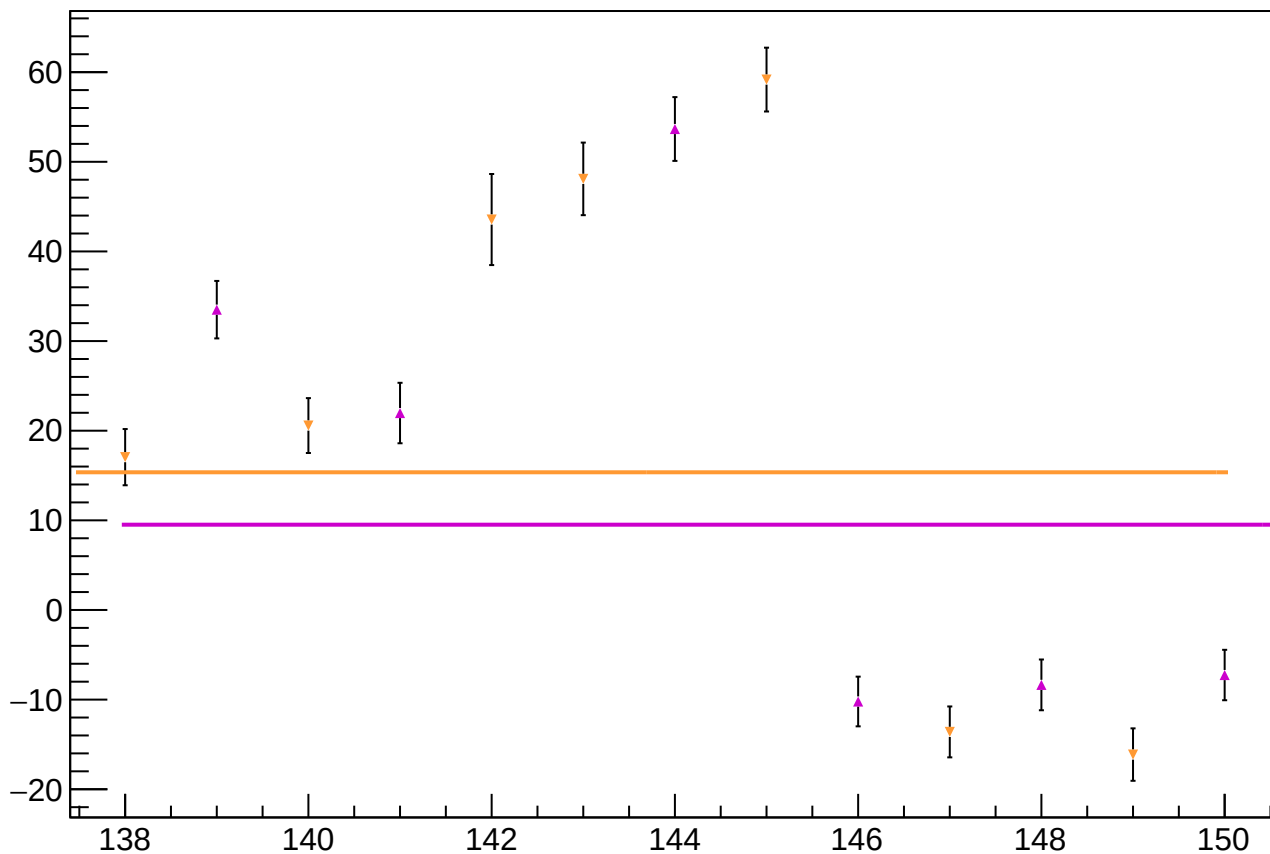


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 11.516+/-0.852  $\chi^2/\text{NDF}$ :94.3/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 10.425+/-0.829  $\chi^2/\text{NDF}$ :54.1/5

Left: 10.956+/-0.594  $\chi^2/\text{NDF}$ : 149.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 10.425+/-0.829  $\chi^2/\text{NDF}$ :54.1/5  
 Out: 11.516+/-0.852  $\chi^2/\text{NDF}$ :94.3/6  
 All: 10.956+/-0.594  $\chi^2/\text{NDF}$ : 149.2/12



reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 15.361+/-1.262  $\chi^2/\text{NDF}$ :470.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 9.514+/-1.245  $\chi^2/\text{NDF}$ :349.6/5

Left: 12.397+/-0.886  $\chi^2/\text{NDF}$ : 831.3/12

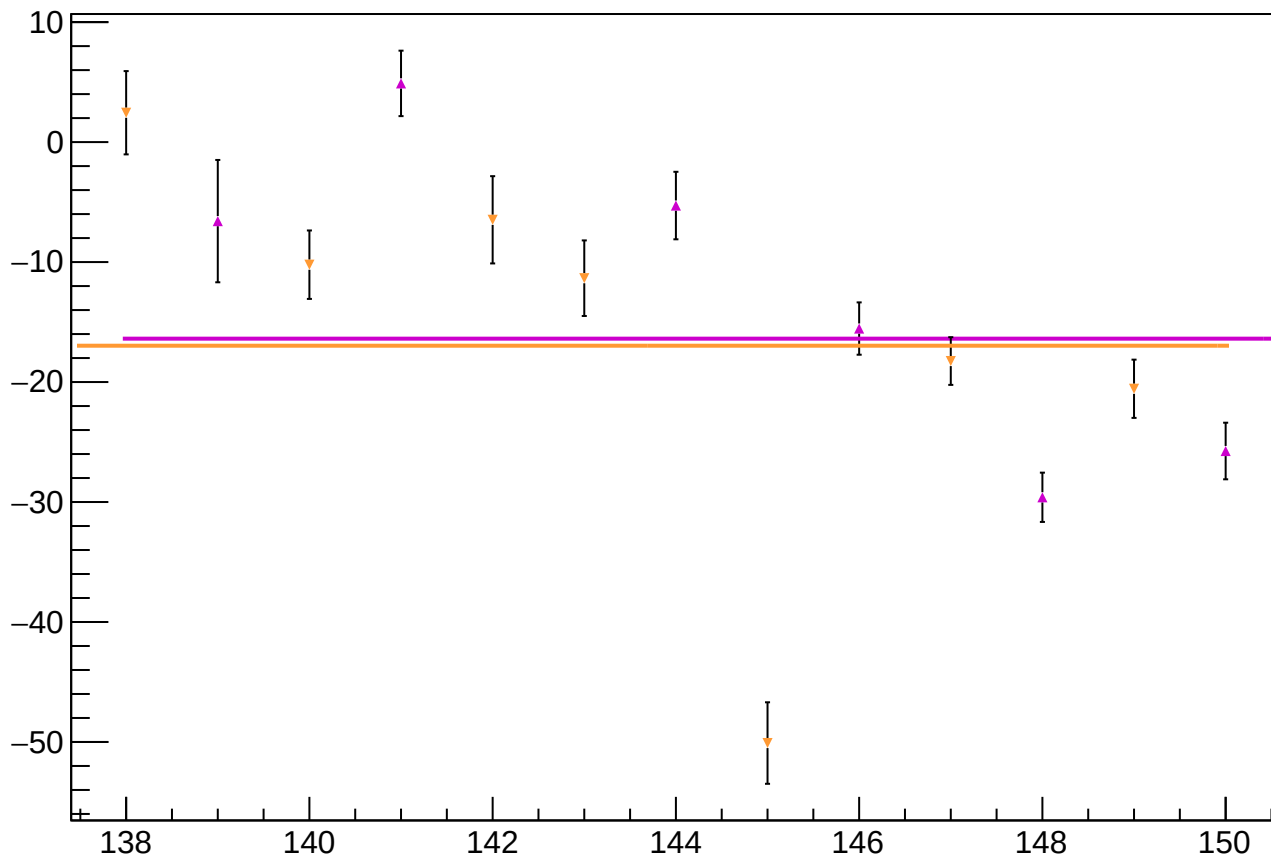
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 9.514+/-1.245  $\chi^2/\text{NDF}$ :349.6/5

Out: 15.361+/-1.262  $\chi^2/\text{NDF}$ :470.8/6

All: 12.397+/-0.886  $\chi^2/\text{NDF}$ : 831.3/12

reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -16.972+/-1.059  $\chi^2/\text{NDF}$ :146.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -16.384+/-1.039  $\chi^2/\text{NDF}$ :137.4/5

Left: -16.672+/-0.742  $\chi^2/\text{NDF}$ : 283.7/12

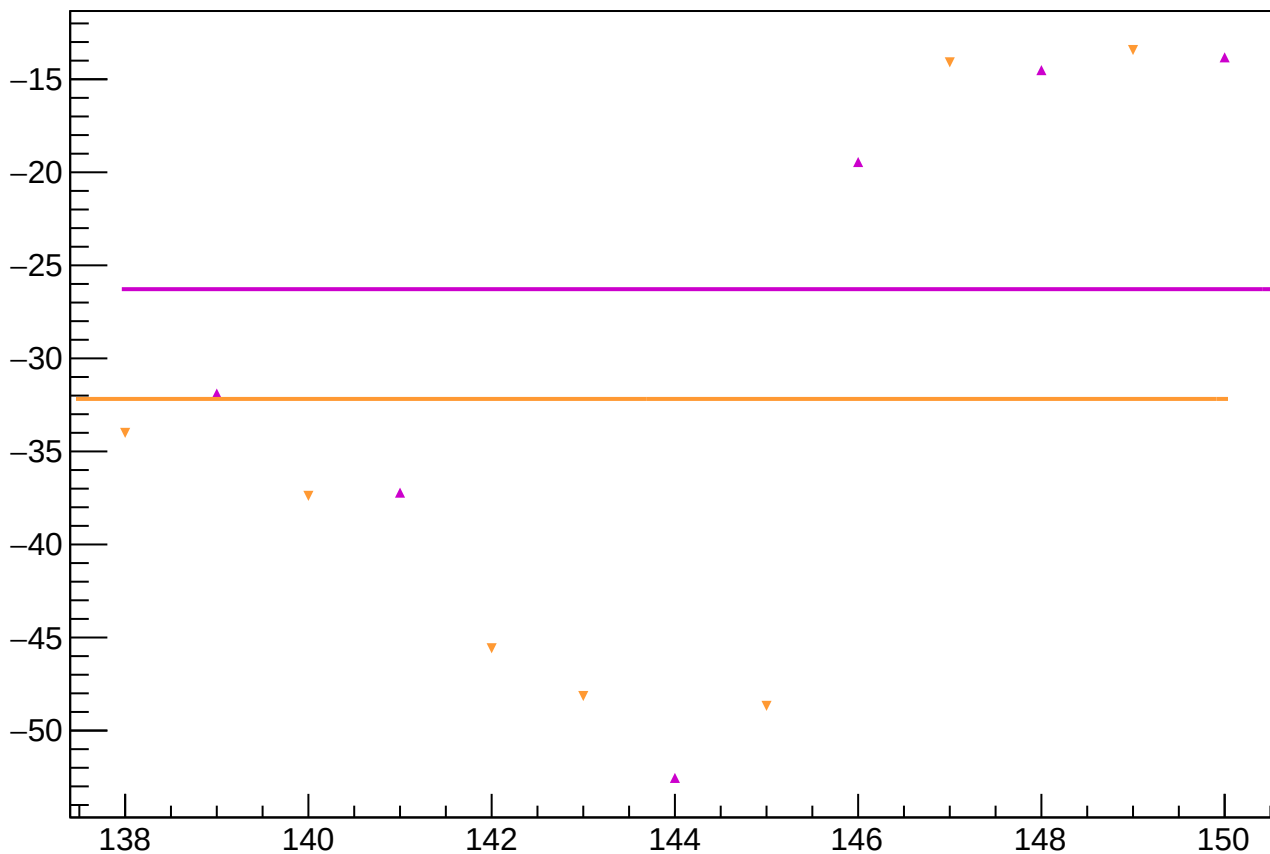
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -16.384+/-1.039  $\chi^2/\text{NDF}$ :137.4/5

Out: -16.972+/-1.059  $\chi^2/\text{NDF}$ :146.1/6

All: -16.672+/-0.742  $\chi^2/\text{NDF}$ : 283.7/12

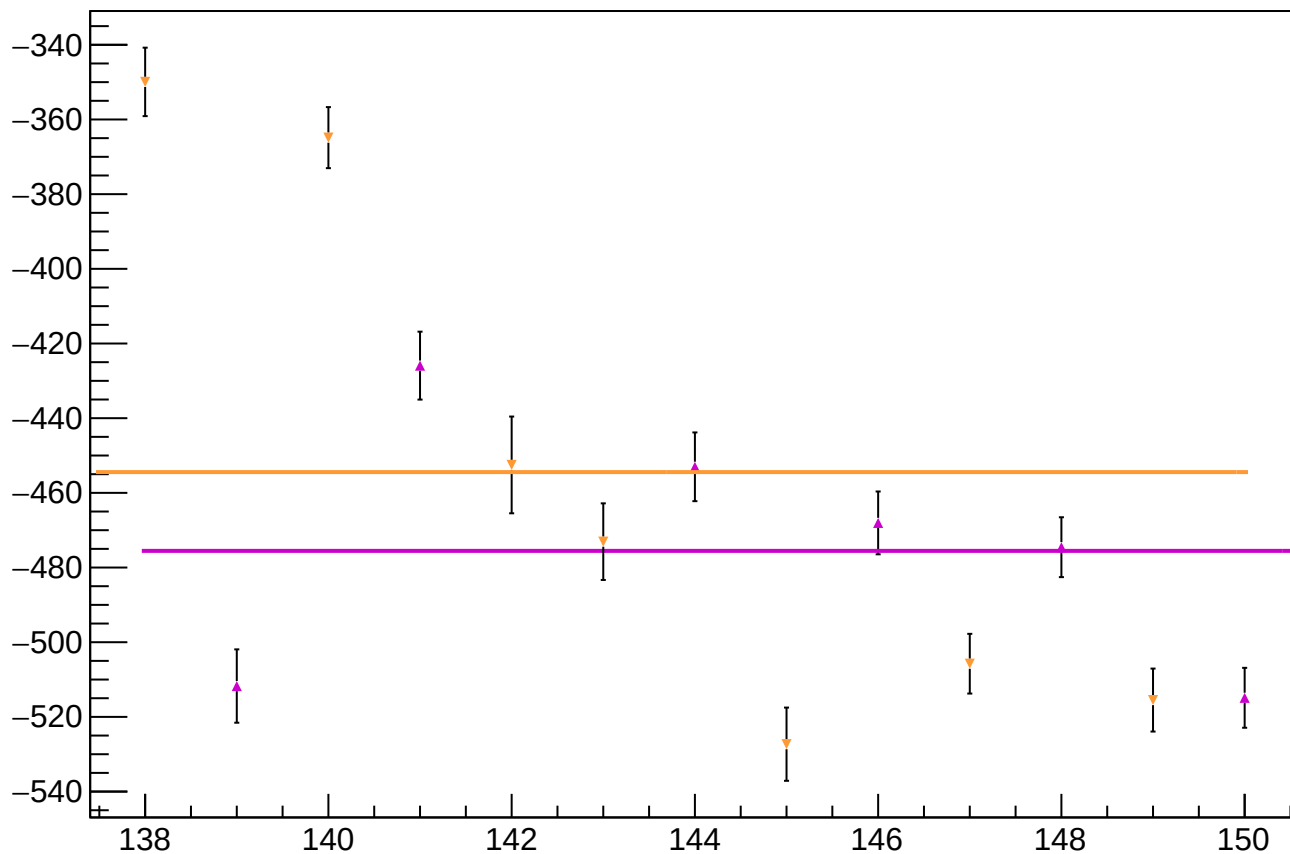
reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -32.178+/-0.053  $\chi^2/\text{NDF}$ : 69768.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -26.280+/-0.052  $\chi^2/\text{NDF}$ : 60949.8/5

Left: -29.142+/-0.037  $\chi^2/\text{NDF}$ : 137063.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -26.280+/-0.052  $\chi^2/\text{NDF}$ : 60949.8/5  
 Out: -32.178+/-0.053  $\chi^2/\text{NDF}$ : 69768.0/6  
 All: -29.142+/-0.037  $\chi^2/\text{NDF}$ : 137063.7/12

reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -454.437+/-3.483  $\chi^2/\text{NDF}$ : 402.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -475.534+/-3.547  $\chi^2/\text{NDF}$ : 74.2/5

Left: -464.794+/-2.485  $\chi^2/\text{NDF}$ : 494.4/12

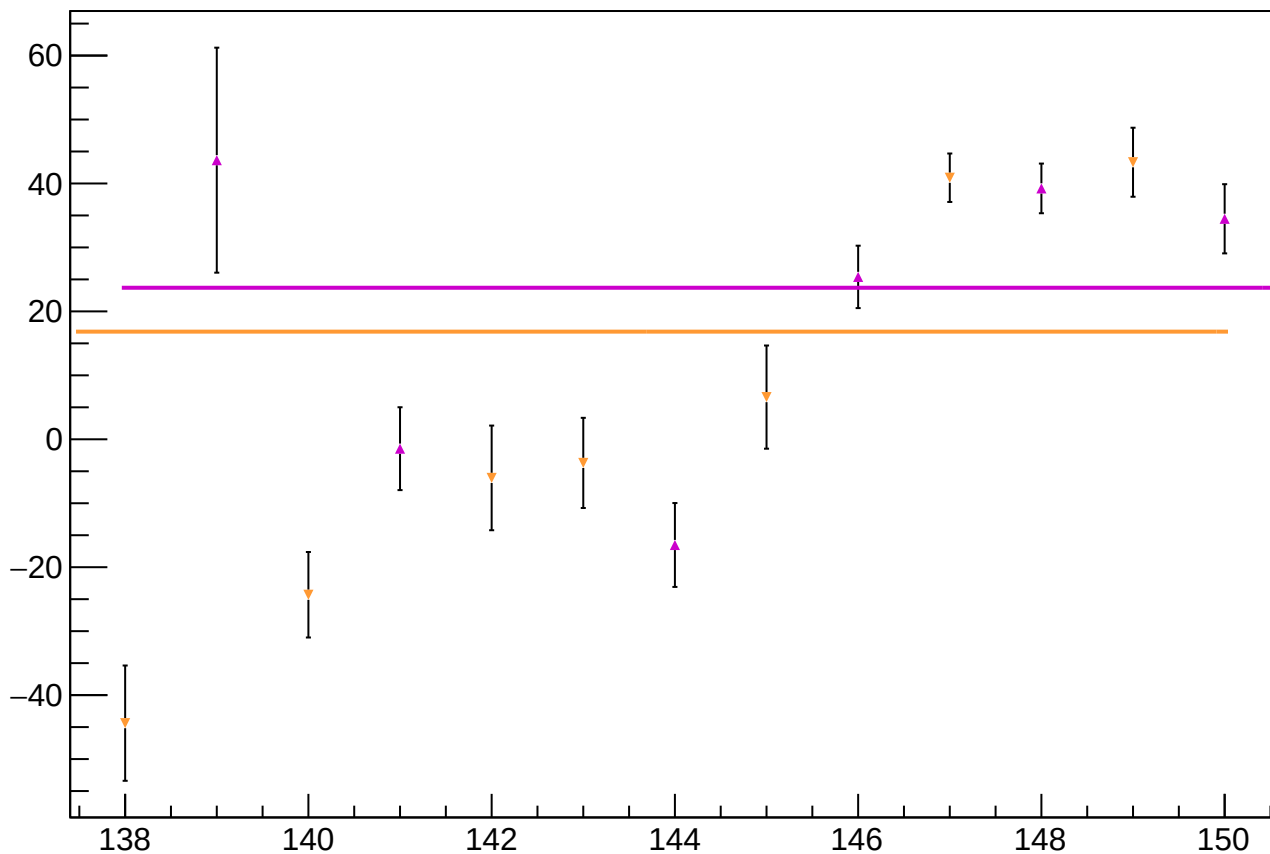
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -475.534+/-3.547  $\chi^2/\text{NDF}$ : 74.2/5

Out: -454.437+/-3.483  $\chi^2/\text{NDF}$ : 402.2/6

All: -464.794+/-2.485  $\chi^2/\text{NDF}$ : 494.4/12

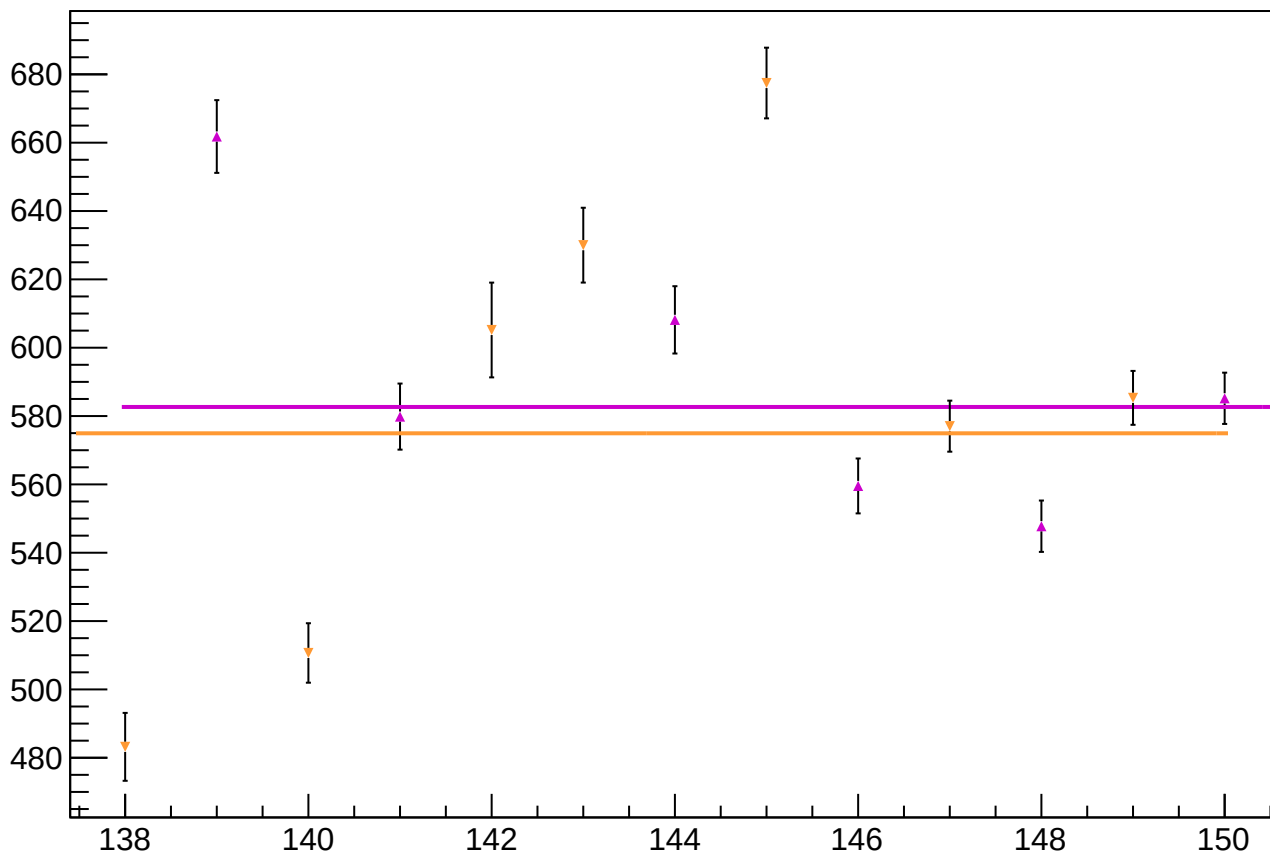
reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 16.835+/-2.299  $\chi^2/\text{NDF}$ :166.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 23.695+/-2.277  $\chi^2/\text{NDF}$ :74.1/5

Left: 20.298+/-1.618  $\chi^2/\text{NDF}$ : 244.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 23.695+/-2.277  $\chi^2/\text{NDF}$ :74.1/5  
 Out: 16.835+/-2.299  $\chi^2/\text{NDF}$ :166.4/6  
 All: 20.298+/-1.618  $\chi^2/\text{NDF}$ : 244.9/12

reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 574.953+/-3.530  $\chi^2/\text{NDF}$ :269.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 582.660+/-3.518  $\chi^2/\text{NDF}$ :92.0/5

Left: 578.820+/-2.492  $\chi^2/\text{NDF}$ : 364.3/12

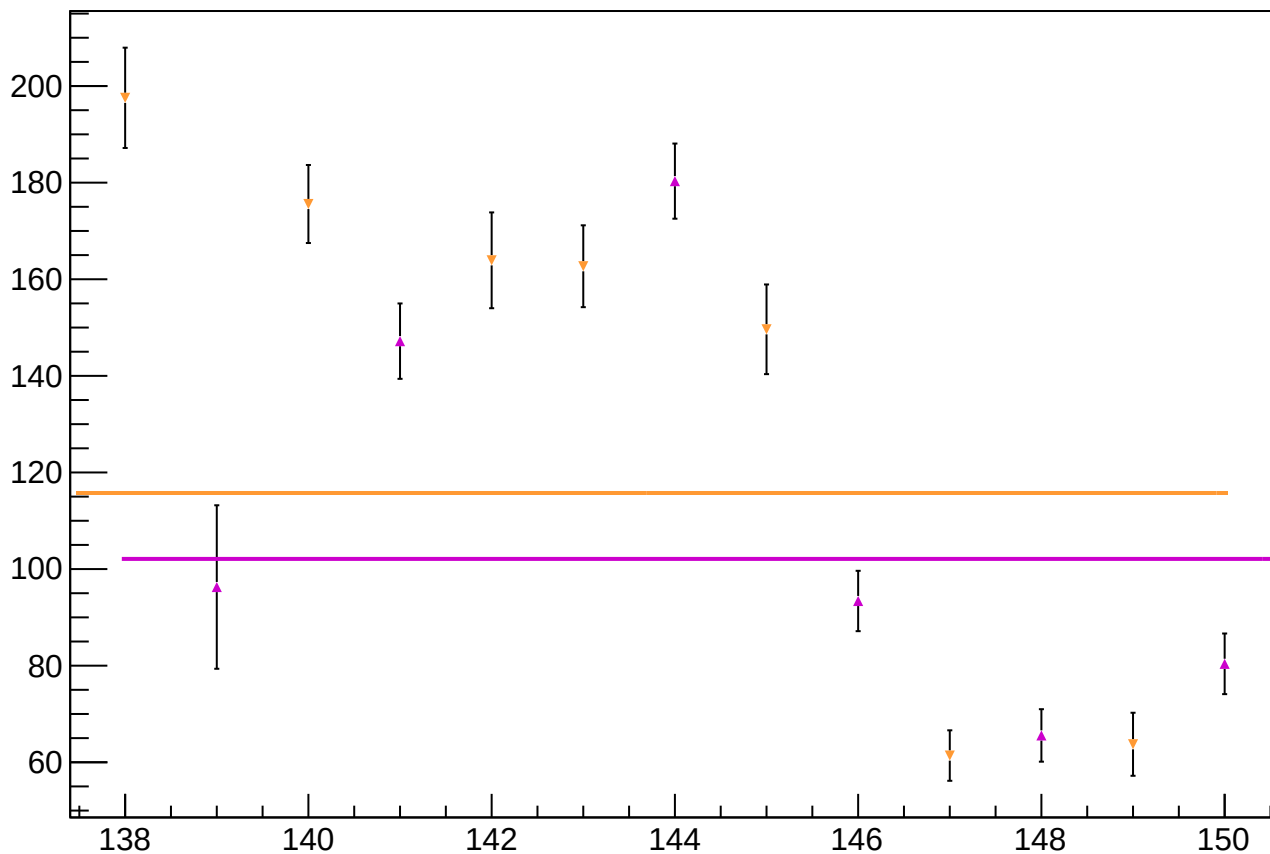
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 582.660+/-3.518  $\chi^2/\text{NDF}$ :92.0/5

Out: 574.953+/-3.530  $\chi^2/\text{NDF}$ :269.9/6

All: 578.820+/-2.492  $\chi^2/\text{NDF}$ : 364.3/12

reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 115.750+/-2.882  $\chi^2/\text{NDF}$ :356.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 102.103+/-2.871  $\chi^2/\text{NDF}$ :193.7/5

Left: 108.901+/-2.034  $\chi^2/\text{NDF}$ : 561.3/12

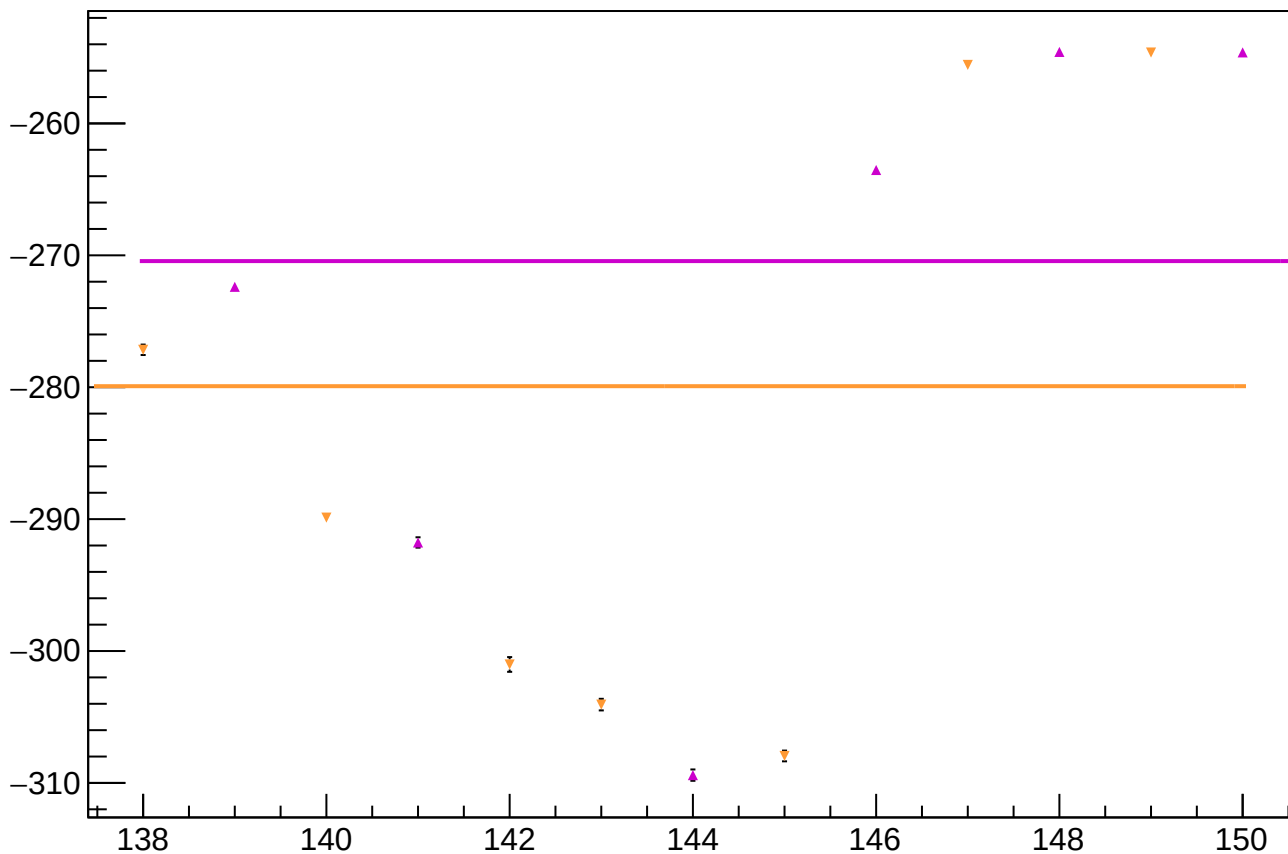
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 102.103+/-2.871  $\chi^2/\text{NDF}$ :193.7/5

Out: 115.750+/-2.882  $\chi^2/\text{NDF}$ :356.3/6

All: 108.901+/-2.034  $\chi^2/\text{NDF}$ : 561.3/12

reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -279.921+/-0.150  $\chi^2/\text{NDF}$ :20130.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -270.437+/-0.147  $\chi^2/\text{NDF}$ :16501.8/5

Left: -275.082+/-0.105  $\chi^2/\text{NDF}$ : 38663.7/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

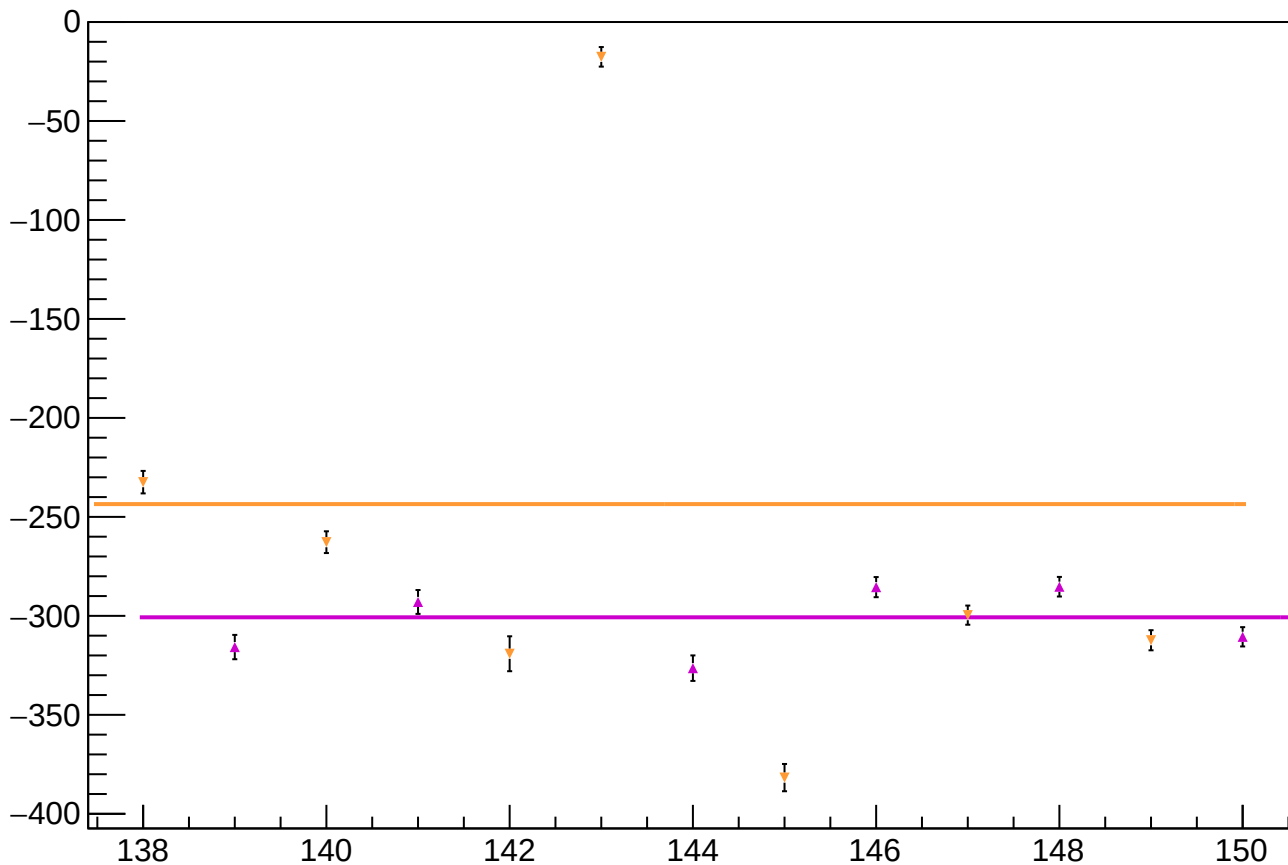
In: -270.437+/-0.147  $\chi^2/\text{NDF}$ :16501.8/5

Out: -279.921+/-0.150  $\chi^2/\text{NDF}$ :20130.5/6

All: -275.082+/-0.105  $\chi^2/\text{NDF}$ : 38663.7/12



reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-243.539 \pm 2.131$   $\chi^2/\text{NDF}: 2895.7/6$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $-300.728 \pm 2.238$   $\chi^2/\text{NDF}: 46.4/5$

Left:  $-270.724 \pm 1.543$   $\chi^2/\text{NDF}: 3284.6/12$

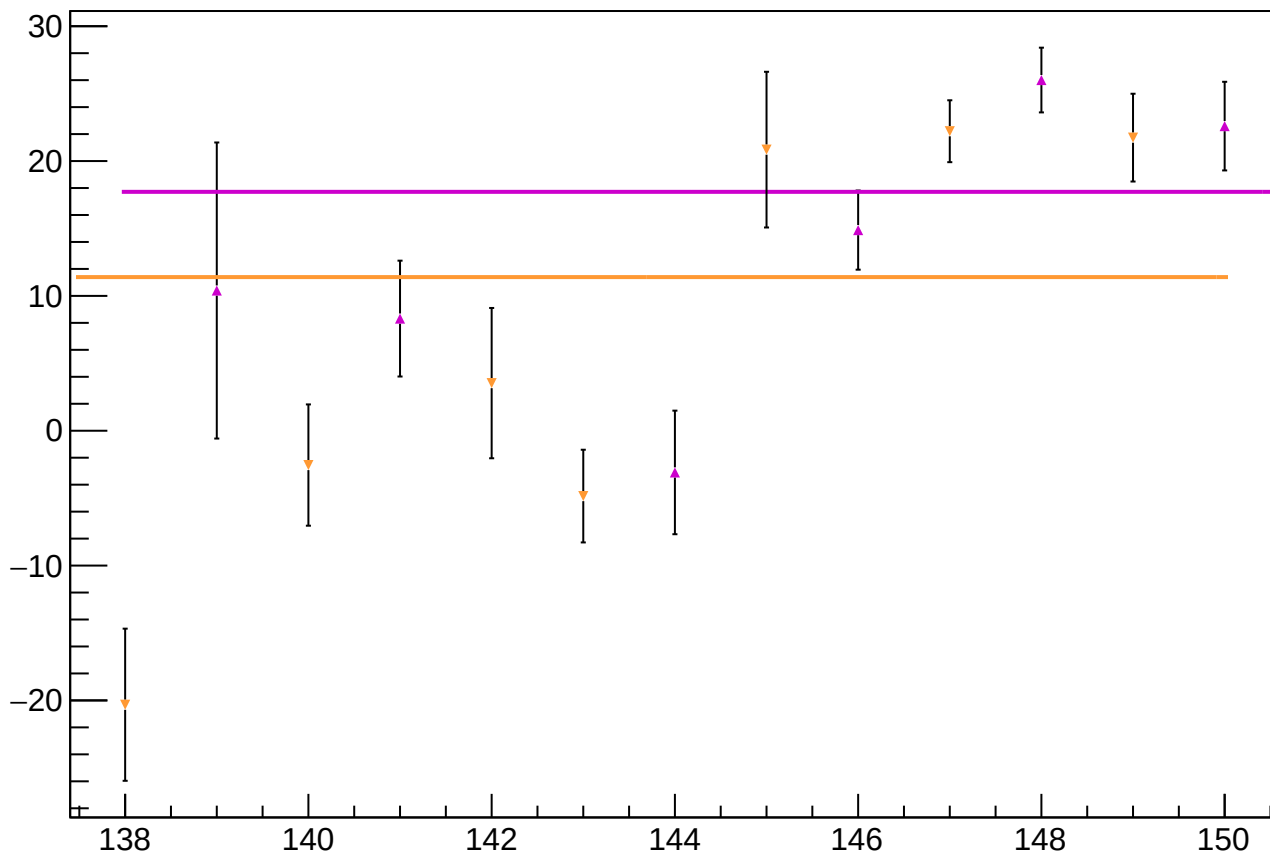
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-300.728 \pm 2.238$   $\chi^2/\text{NDF}: 46.4/5$

Out:  $-243.539 \pm 2.131$   $\chi^2/\text{NDF}: 2895.7/6$

All:  $-270.724 \pm 1.543$   $\chi^2/\text{NDF}: 3284.6/12$

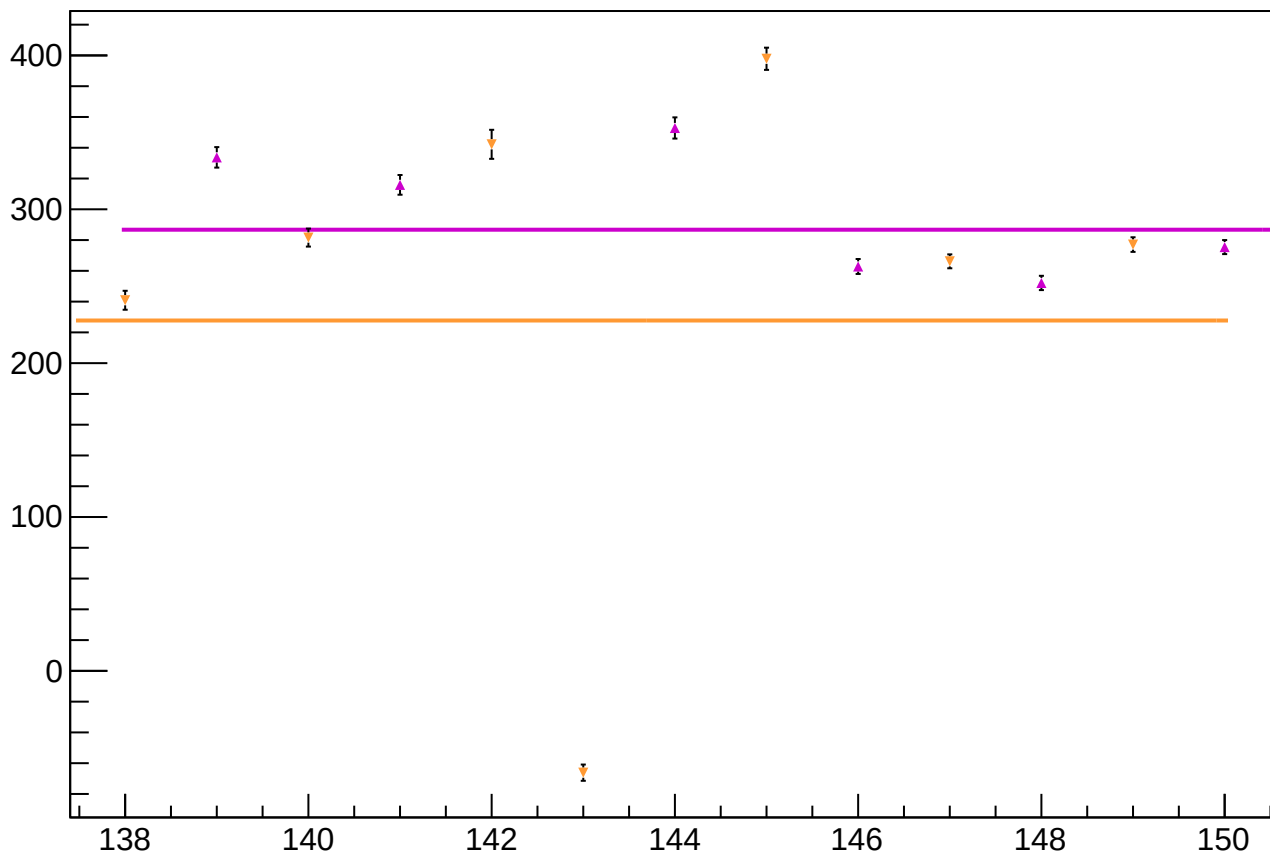
reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 11.394+/-1.398  $\chi^2/\text{NDF}$ :100.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 17.717+/-1.425  $\chi^2/\text{NDF}$ :40.9/5

Left: 14.494+/-0.998  $\chi^2/\text{NDF}$ : 151.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 17.717+/-1.425  $\chi^2/\text{NDF}$ :40.9/5  
 Out: 11.394+/-1.398  $\chi^2/\text{NDF}$ :100.5/6  
 All: 14.494+/-0.998  $\chi^2/\text{NDF}$ : 151.5/12

reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 227.720+/-2.156  $\chi^2/\text{NDF}$ :4069.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 286.732+/-2.210  $\chi^2/\text{NDF}$ :248.5/5

Left: 256.507+/-1.543  $\chi^2/\text{NDF}$ : 4683.1/12

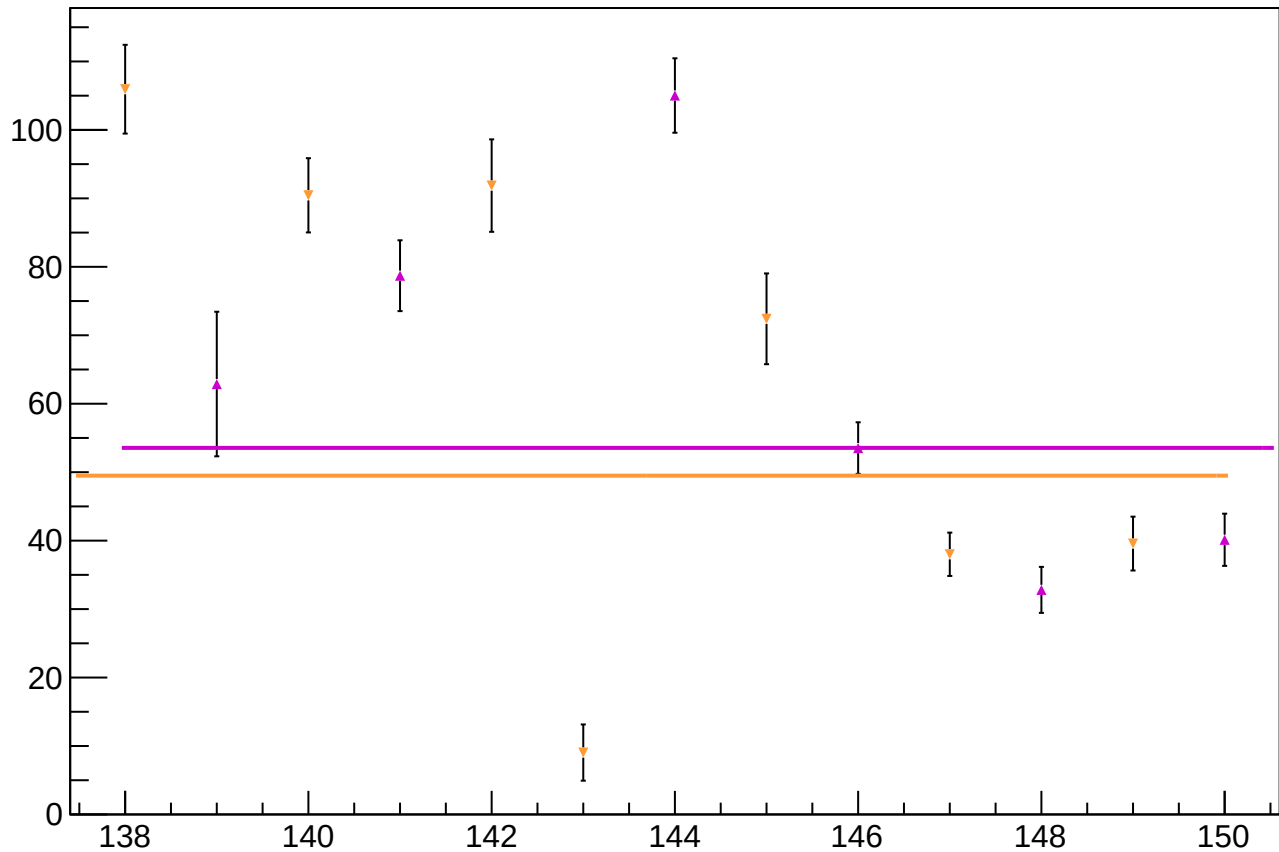
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 286.732+/-2.210  $\chi^2/\text{NDF}$ :248.5/5

Out: 227.720+/-2.156  $\chi^2/\text{NDF}$ :4069.3/6

All: 256.507+/-1.543  $\chi^2/\text{NDF}$ : 4683.1/12

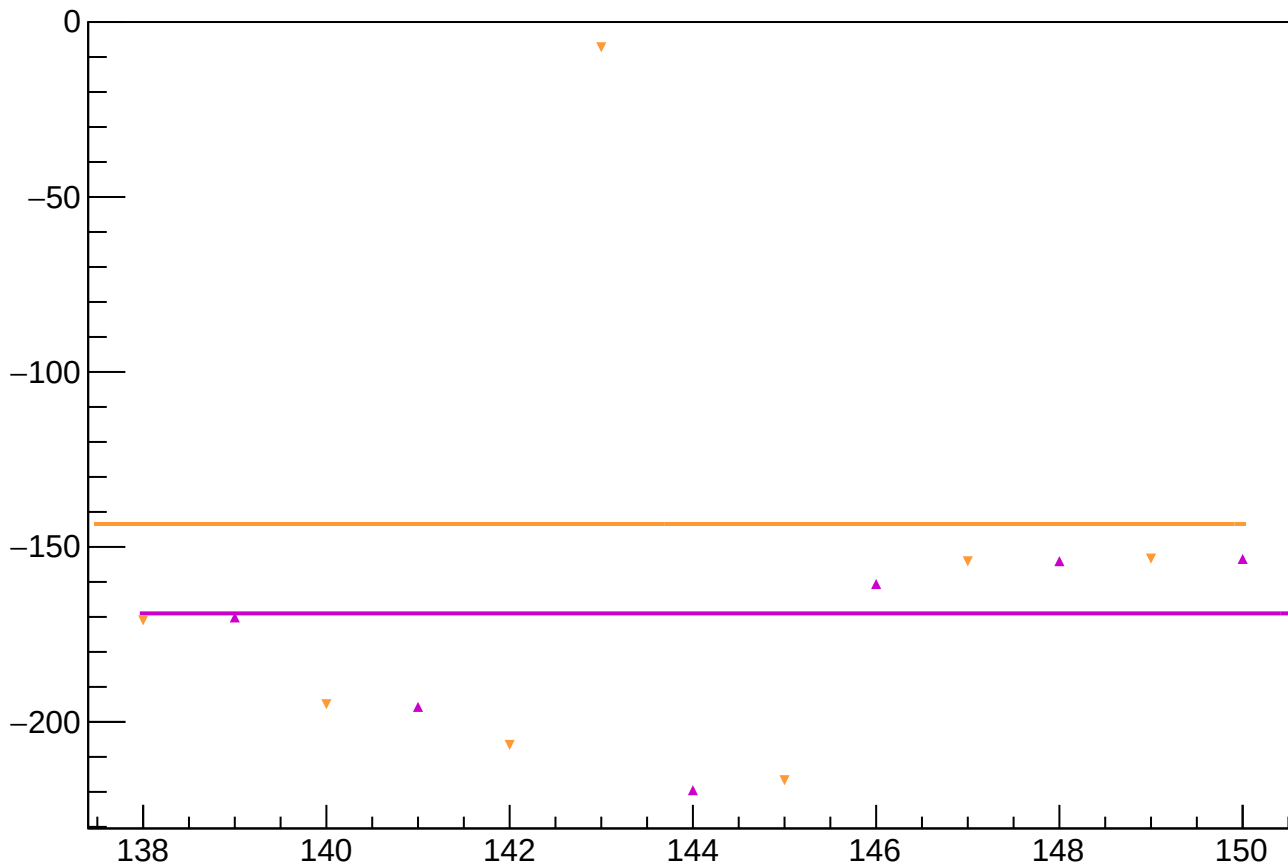
reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 49.495+/-1.751  $\chi^2/\text{NDF}$ :300.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 53.551+/-1.802  $\chi^2/\text{NDF}$ :164.5/5

Left: 51.465+/-1.256  $\chi^2/\text{NDF}$ : 467.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 53.551+/-1.802  $\chi^2/\text{NDF}$ :164.5/5  
 Out: 49.495+/-1.751  $\chi^2/\text{NDF}$ :300.6/6  
 All: 51.465+/-1.256  $\chi^2/\text{NDF}$ : 467.7/12

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -143.449+/-0.092  $\chi^2/\text{NDF}$ :567812.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -168.987+/-0.093  $\chi^2/\text{NDF}$ :52301.1/5

Left: -156.088+/-0.065  $\chi^2/\text{NDF}$ : 658593.1/12

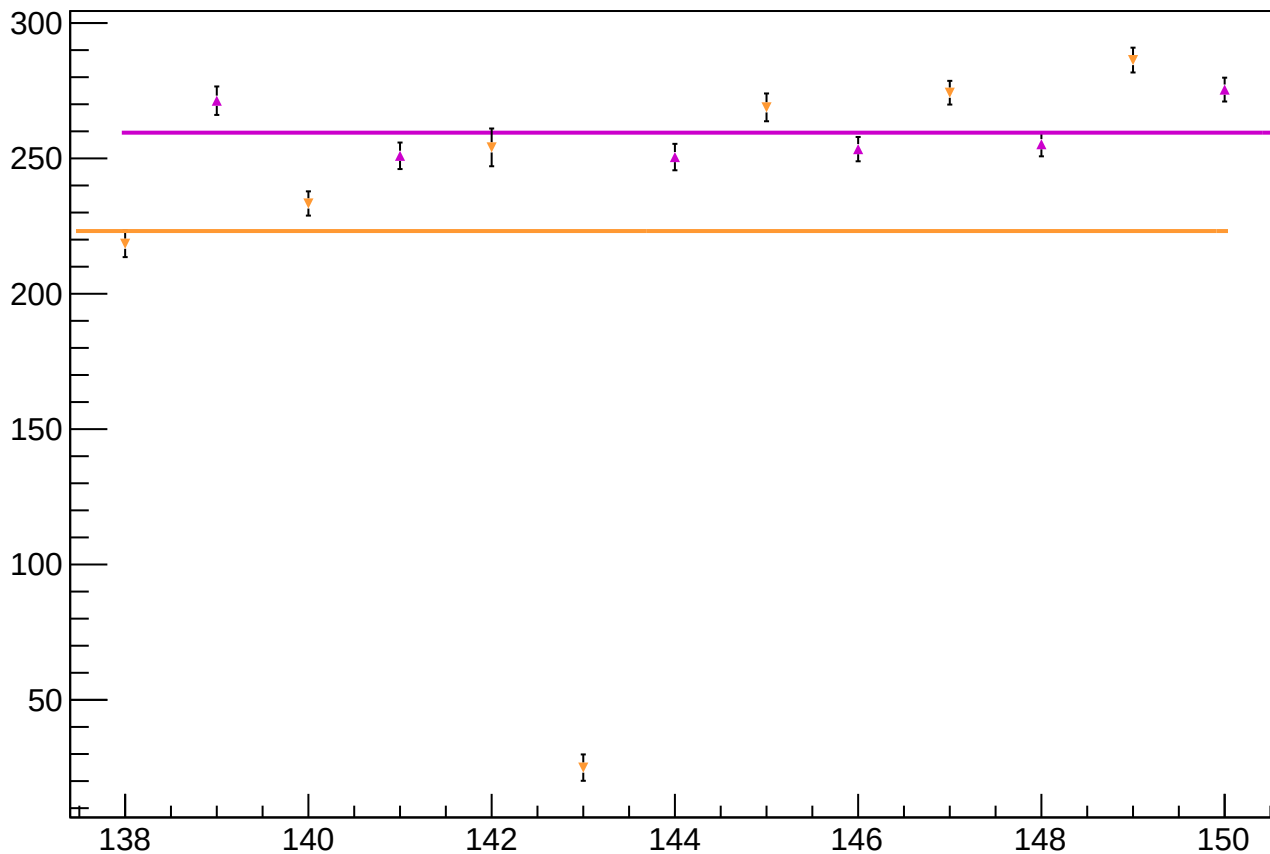
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -168.987+/-0.093  $\chi^2/\text{NDF}$ :52301.1/5

Out: -143.449+/-0.092  $\chi^2/\text{NDF}$ :567812.5/6

All: -156.088+/-0.065  $\chi^2/\text{NDF}$ : 658593.1/12

reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 223.169+/-1.853  $\chi^2/\text{NDF}$ :2087.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 259.506+/-1.922  $\chi^2/\text{NDF}$ :27.3/5

Left: 240.678+/-1.334  $\chi^2/\text{NDF}$ : 2299.6/12

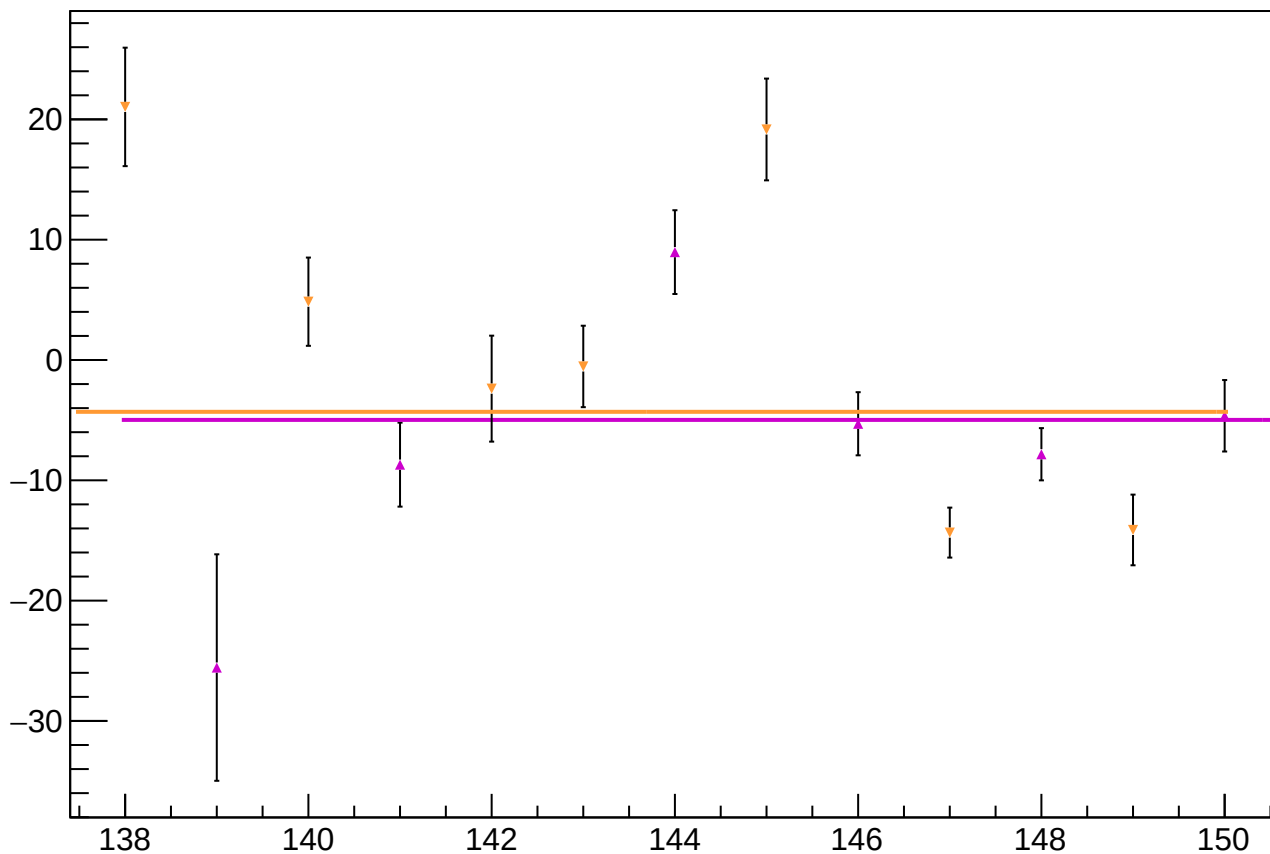
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 259.506+/-1.922  $\chi^2/\text{NDF}$ :27.3/5

Out: 223.169+/-1.853  $\chi^2/\text{NDF}$ :2087.0/6

All: 240.678+/-1.334  $\chi^2/\text{NDF}$ : 2299.6/12

reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.307 $\pm$ 1.233  $\chi^2$ /NDF:99.5/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -4.979 $\pm$ 1.243  $\chi^2$ /NDF:23.7/5

Left: -4.640 $\pm$ 0.875  $\chi^2$ /NDF: 123.4/12

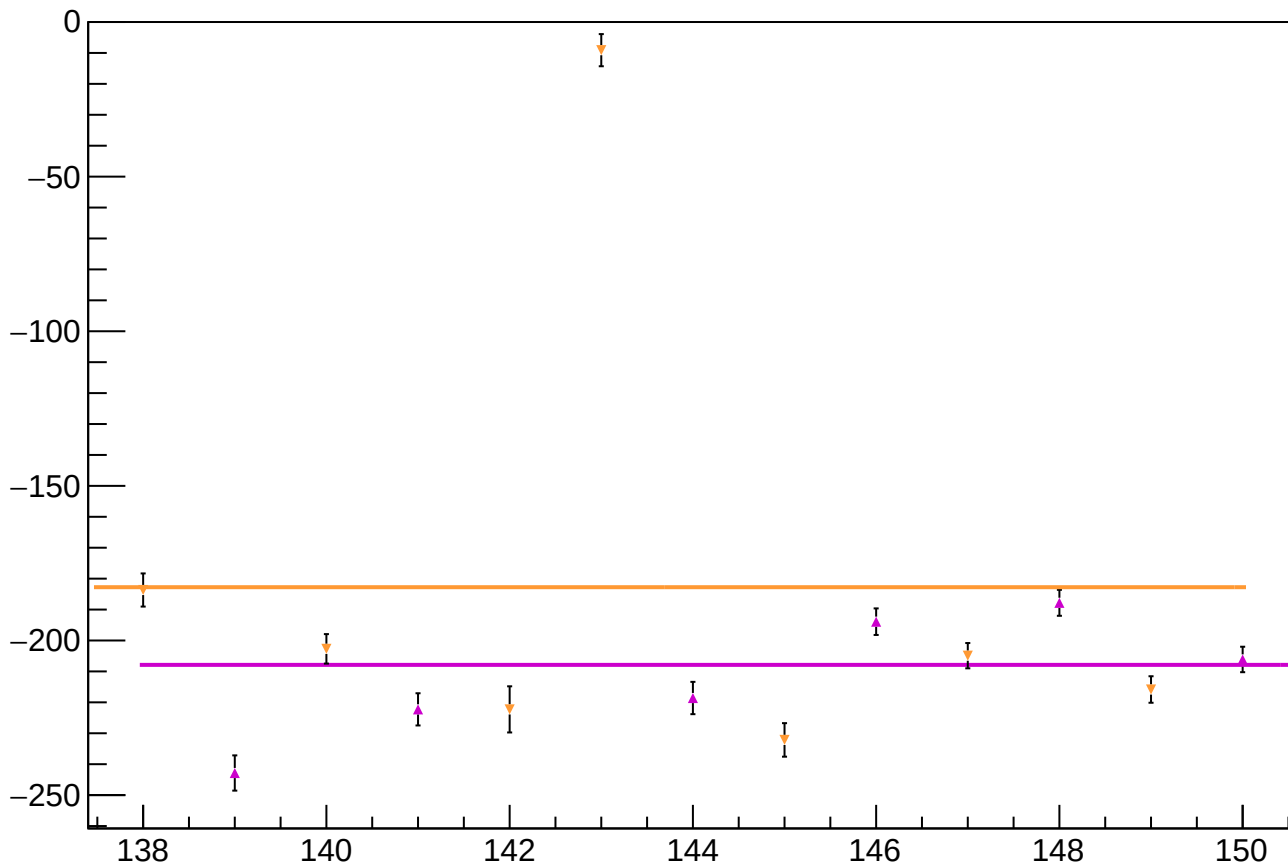
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -4.979 $\pm$ 1.243  $\chi^2$ /NDF:23.7/5

Out: -4.307 $\pm$ 1.233  $\chi^2$ /NDF:99.5/6

All: -4.640 $\pm$ 0.875  $\chi^2$ /NDF: 123.4/12

reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-182.768 \pm 1.883$   $\chi^2/\text{NDF}: 1333.1/6$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $-207.886 \pm 1.909$   $\chi^2/\text{NDF}: 83.1/5$

Left:  $-195.152 \pm 1.341$   $\chi^2/\text{NDF}: 1503.9/12$

Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

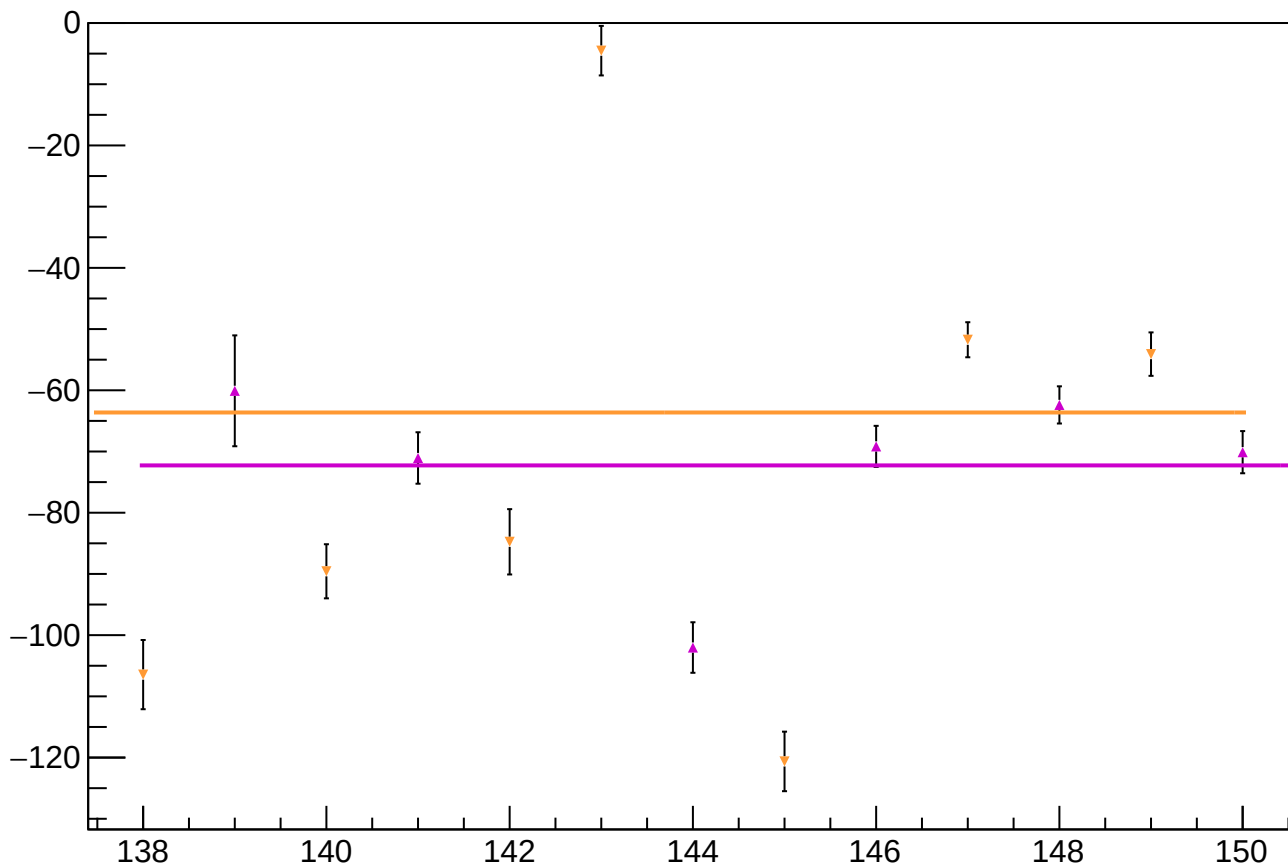
In:  $-207.886 \pm 1.909$   $\chi^2/\text{NDF}: 83.1/5$

Out:  $-182.768 \pm 1.883$   $\chi^2/\text{NDF}: 1333.1/6$

All:  $-195.152 \pm 1.341$   $\chi^2/\text{NDF}: 1503.9/12$



reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -63.626+/-1.539  $\chi^2/\text{NDF}$ :482.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -72.271+/-1.564  $\chi^2/\text{NDF}$ :65.7/5

Left: -67.878+/-1.097  $\chi^2/\text{NDF}$ : 564.0/12

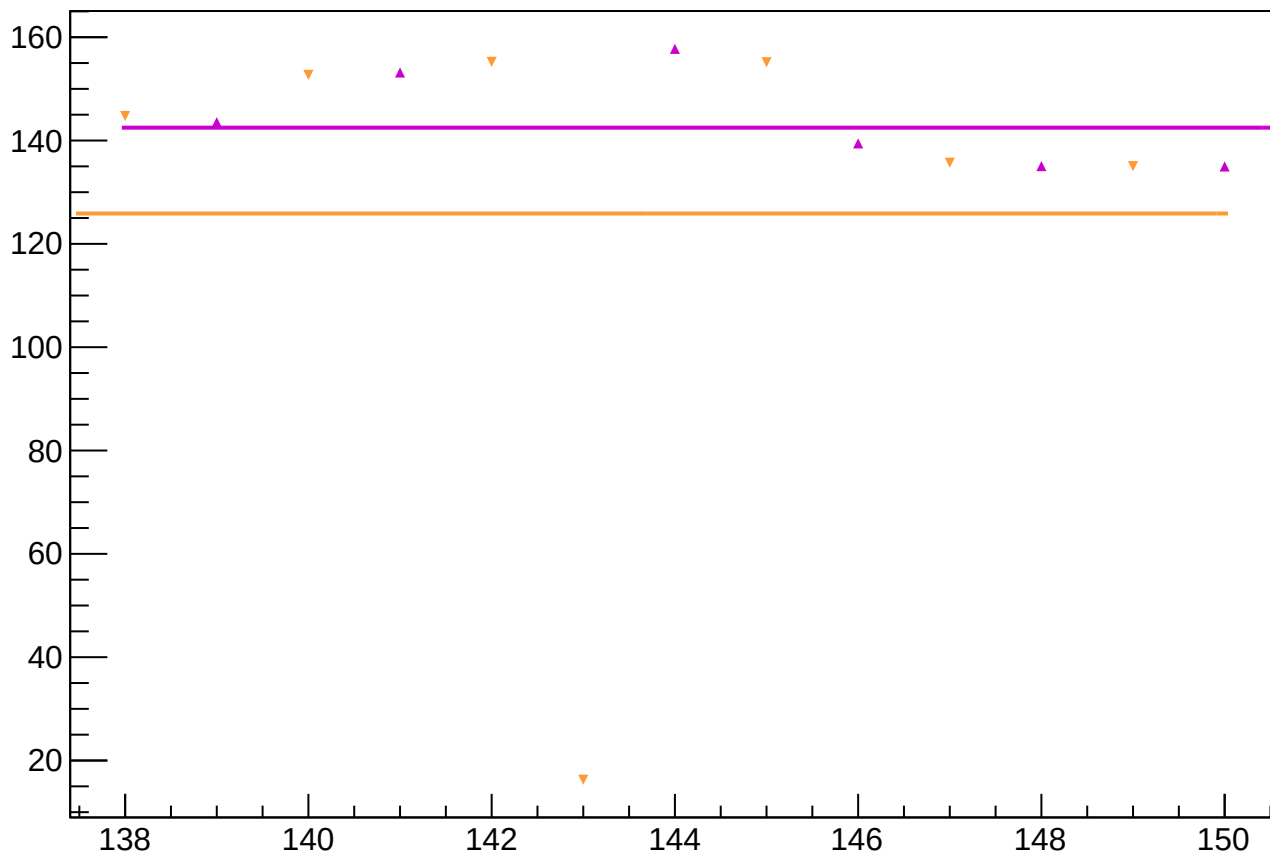
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -72.271+/-1.564  $\chi^2/\text{NDF}$ :65.7/5

Out: -63.626+/-1.539  $\chi^2/\text{NDF}$ :482.8/6

All: -67.878+/-1.097  $\chi^2/\text{NDF}$ : 564.0/12

reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 125.882+/-0.080  $\chi^2/\text{NDF}$ :335767.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 142.491+/-0.080  $\chi^2/\text{NDF}$ :10907.5/5

Left: 134.169+/-0.056  $\chi^2/\text{NDF}$ : 368317.8/12

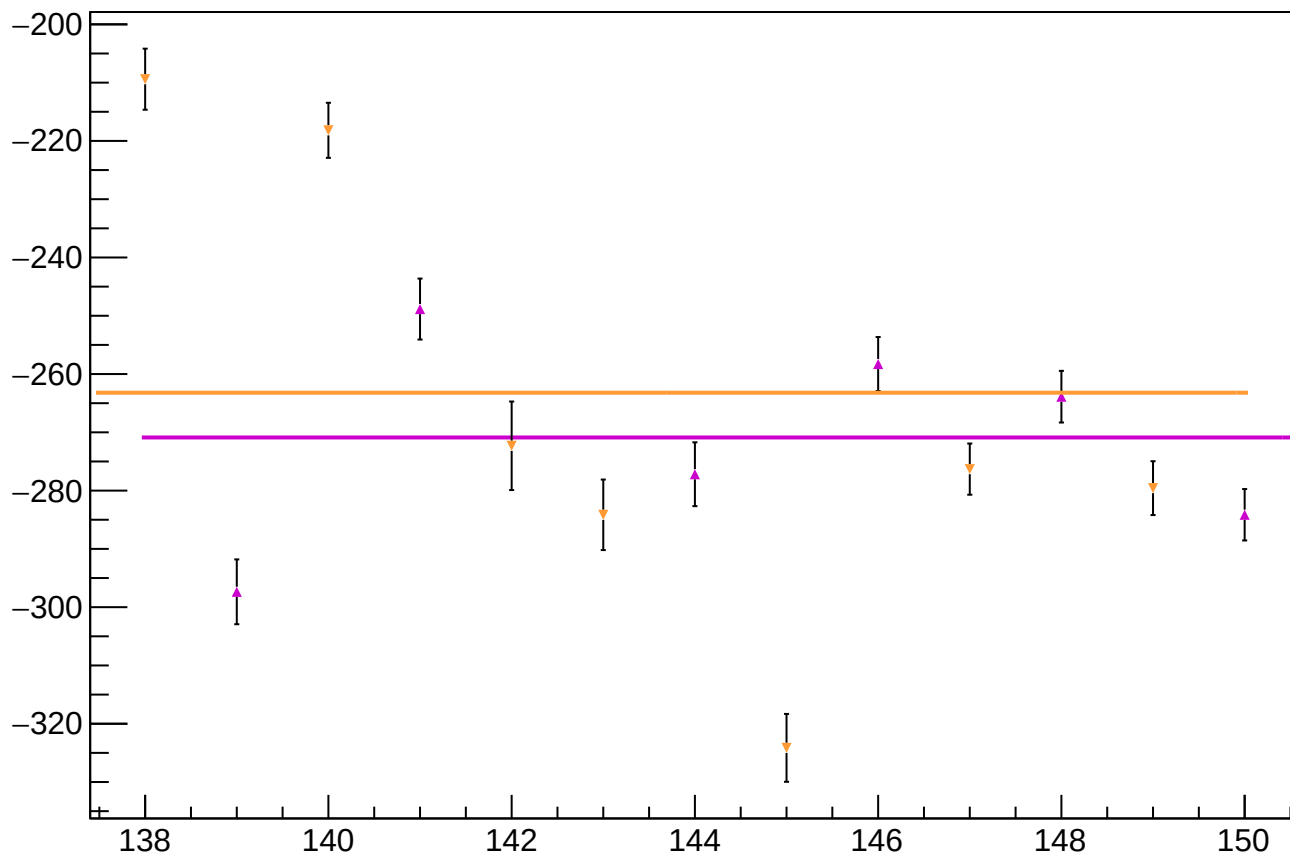
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 142.491+/-0.080  $\chi^2/\text{NDF}$ :10907.5/5

Out: 125.882+/-0.080  $\chi^2/\text{NDF}$ :335767.7/6

All: 134.169+/-0.056  $\chi^2/\text{NDF}$ : 368317.8/12

reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -263.200+/-1.984  $\chi^2/\text{NDF}$ :340.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -270.882+/-1.995  $\chi^2/\text{NDF}$ :60.7/5

Left: -267.019+/-1.407  $\chi^2/\text{NDF}$ : 408.7/12

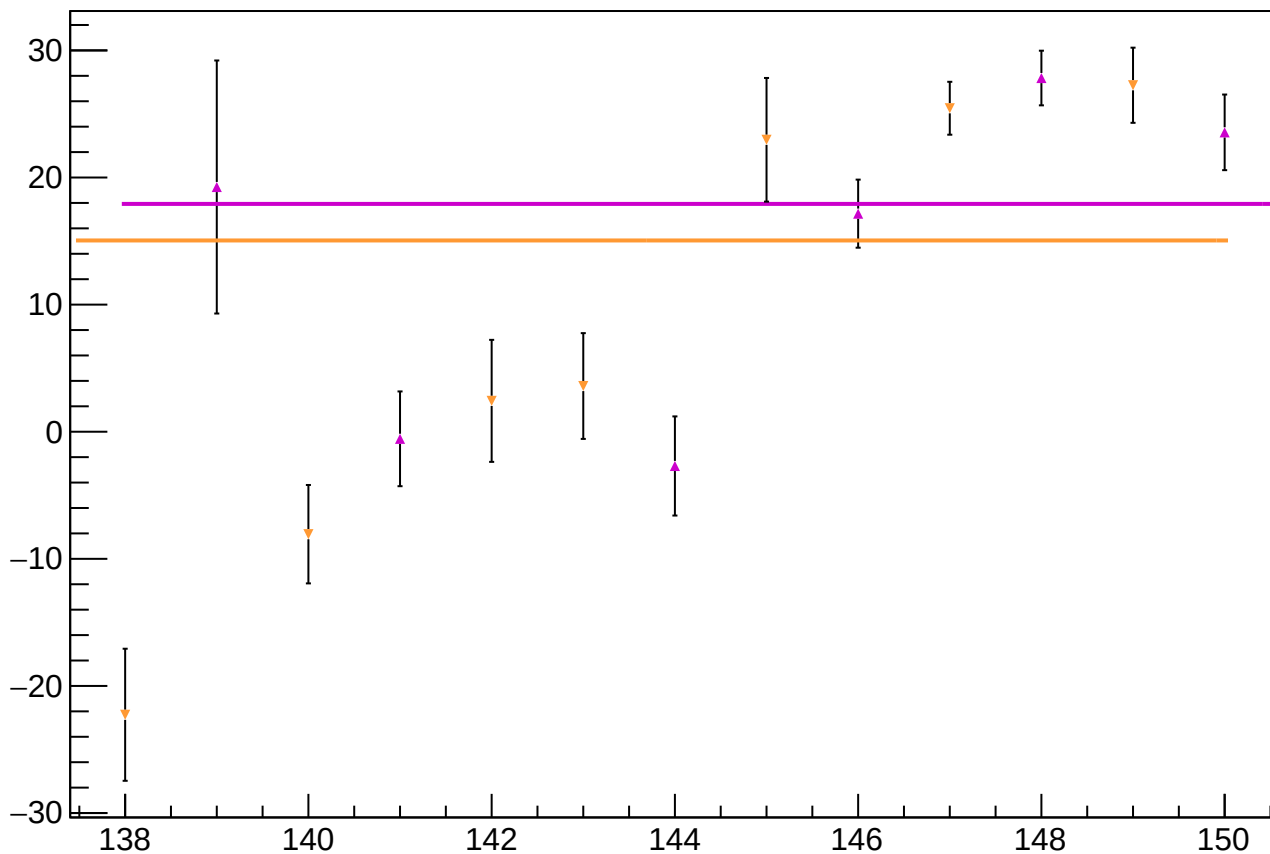
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -270.882+/-1.995  $\chi^2/\text{NDF}$ :60.7/5

Out: -263.200+/-1.984  $\chi^2/\text{NDF}$ :340.6/6

All: -267.019+/-1.407  $\chi^2/\text{NDF}$ : 408.7/12

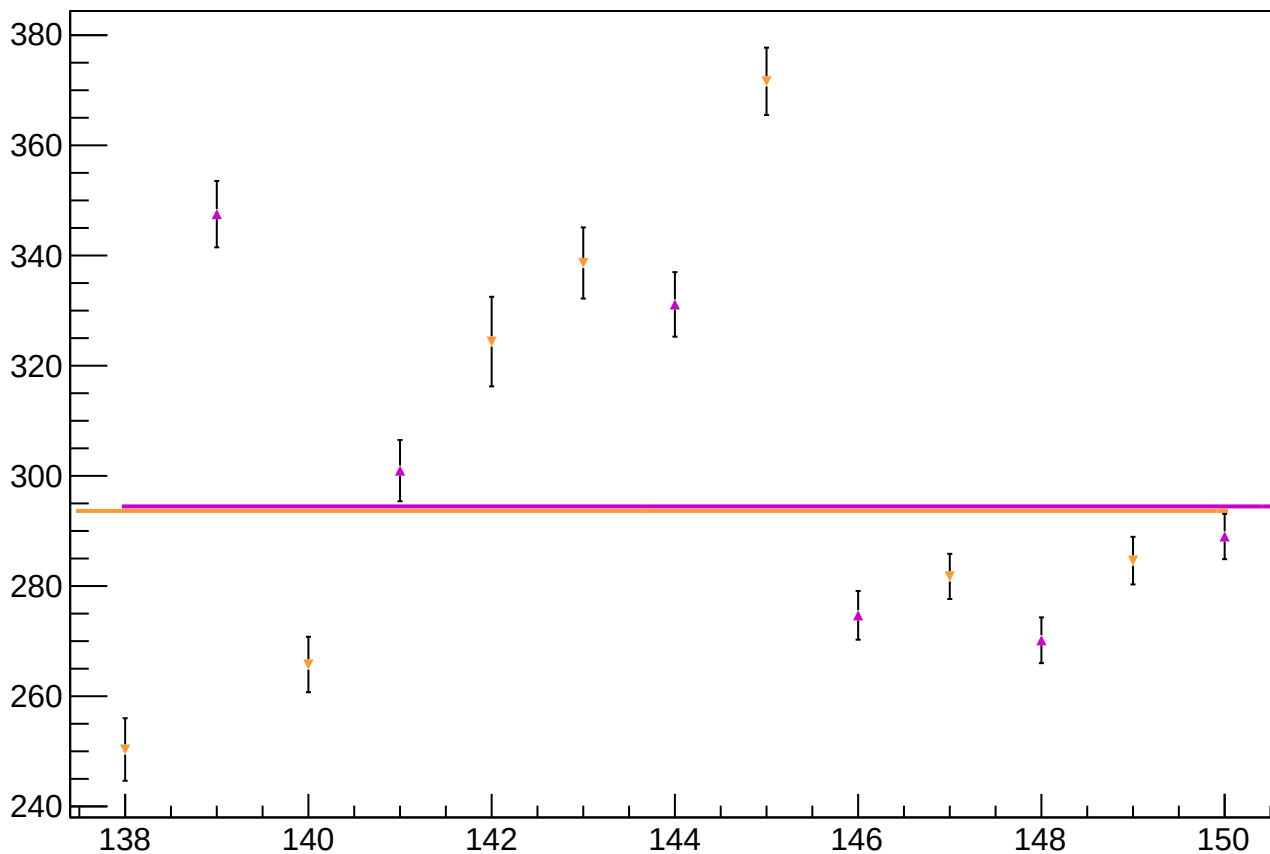
reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 15.048 $\pm$ 1.299  $\chi^2$ /NDF:146.4/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 17.923 $\pm$ 1.273  $\chi^2$ /NDF:77.4/5

Left: 16.514 $\pm$ 0.909  $\chi^2$ /NDF: 226.3/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 17.923 $\pm$ 1.273  $\chi^2$ /NDF:77.4/5  
 Out: 15.048 $\pm$ 1.299  $\chi^2$ /NDF:146.4/6  
 All: 16.514 $\pm$ 0.909  $\chi^2$ /NDF: 226.3/12

reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 293.632+/-2.002  $\chi^2/\text{NDF}$ :327.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 294.455+/-1.973  $\chi^2/\text{NDF}$ :174.0/5

Left: 294.049+/-1.405  $\chi^2/\text{NDF}$ : 501.5/12

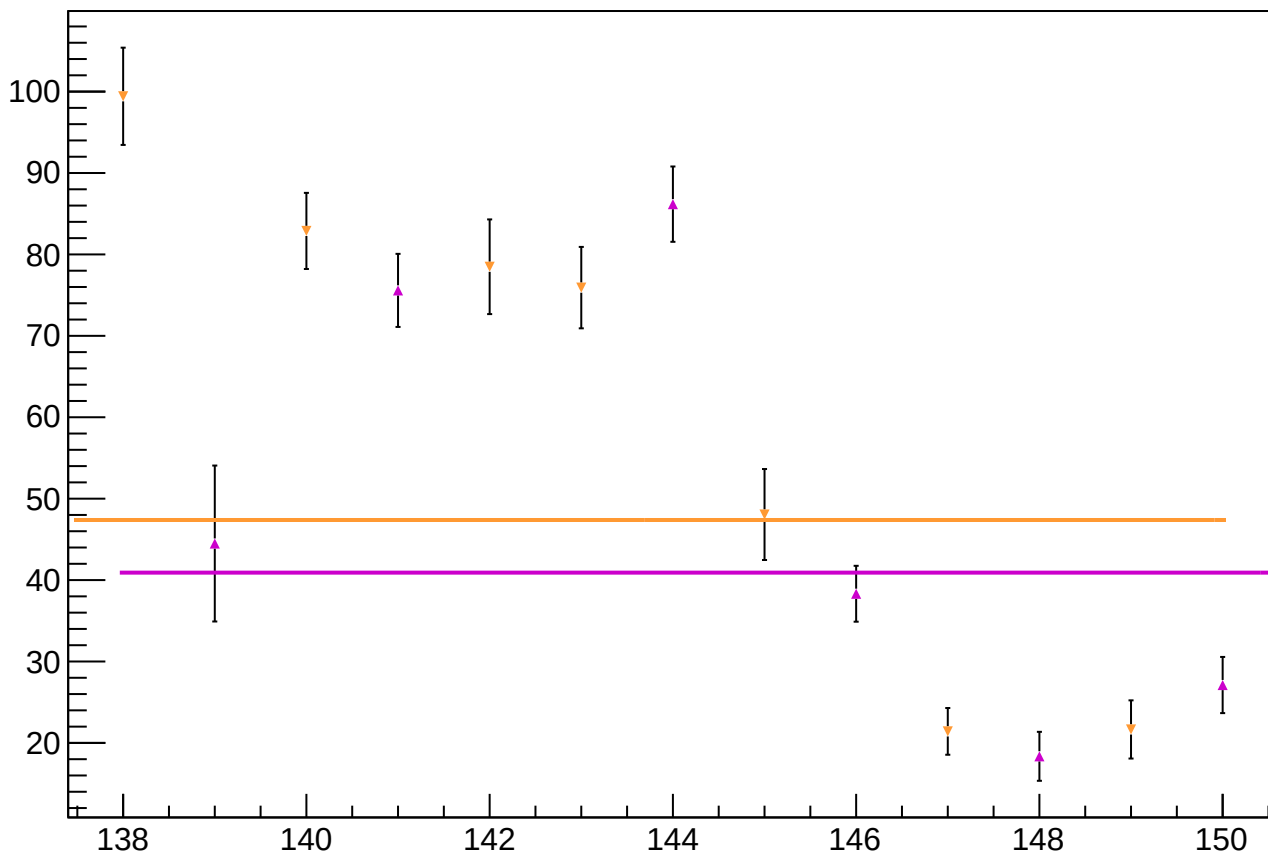
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 294.455+/-1.973  $\chi^2/\text{NDF}$ :174.0/5

Out: 293.632+/-2.002  $\chi^2/\text{NDF}$ :327.4/6

All: 294.049+/-1.405  $\chi^2/\text{NDF}$ : 501.5/12

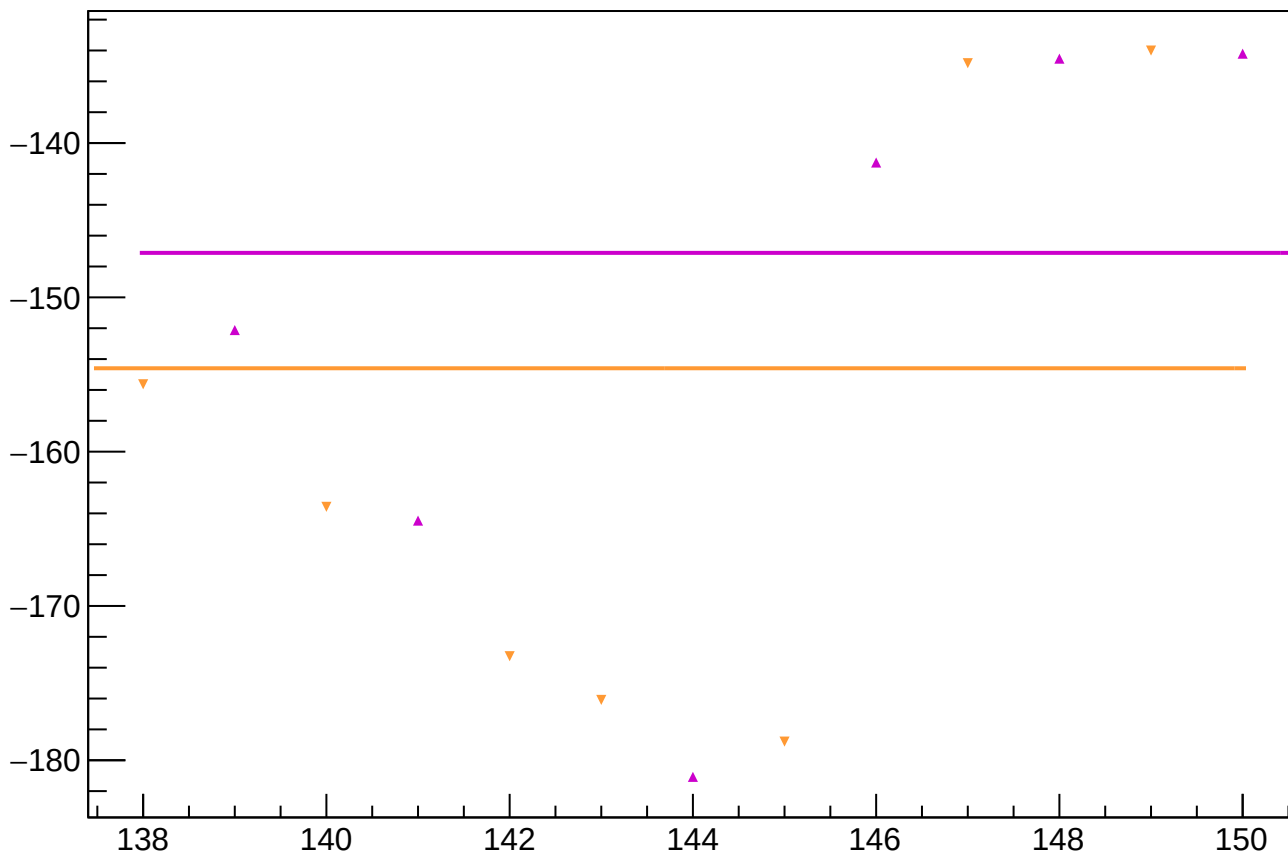
reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 47.380 $\pm$ 1.633  $\chi^2$ /NDF:328.5/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 40.915 $\pm$ 1.608  $\chi^2$ /NDF:228.4/5

Left: 44.098 $\pm$ 1.146  $\chi^2$ /NDF: 564.8/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 40.915 $\pm$ 1.608  $\chi^2$ /NDF:228.4/5  
 Out: 47.380 $\pm$ 1.633  $\chi^2$ /NDF:328.5/6  
 All: 44.098 $\pm$ 1.146  $\chi^2$ /NDF: 564.8/12

reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -154.595+/-0.085  $\chi^2/\text{NDF}$ : 44371.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -147.116+/-0.083  $\chi^2/\text{NDF}$ : 35462.0/5

Left: -150.730+/-0.059  $\chi^2/\text{NDF}$ : 83790.3/12

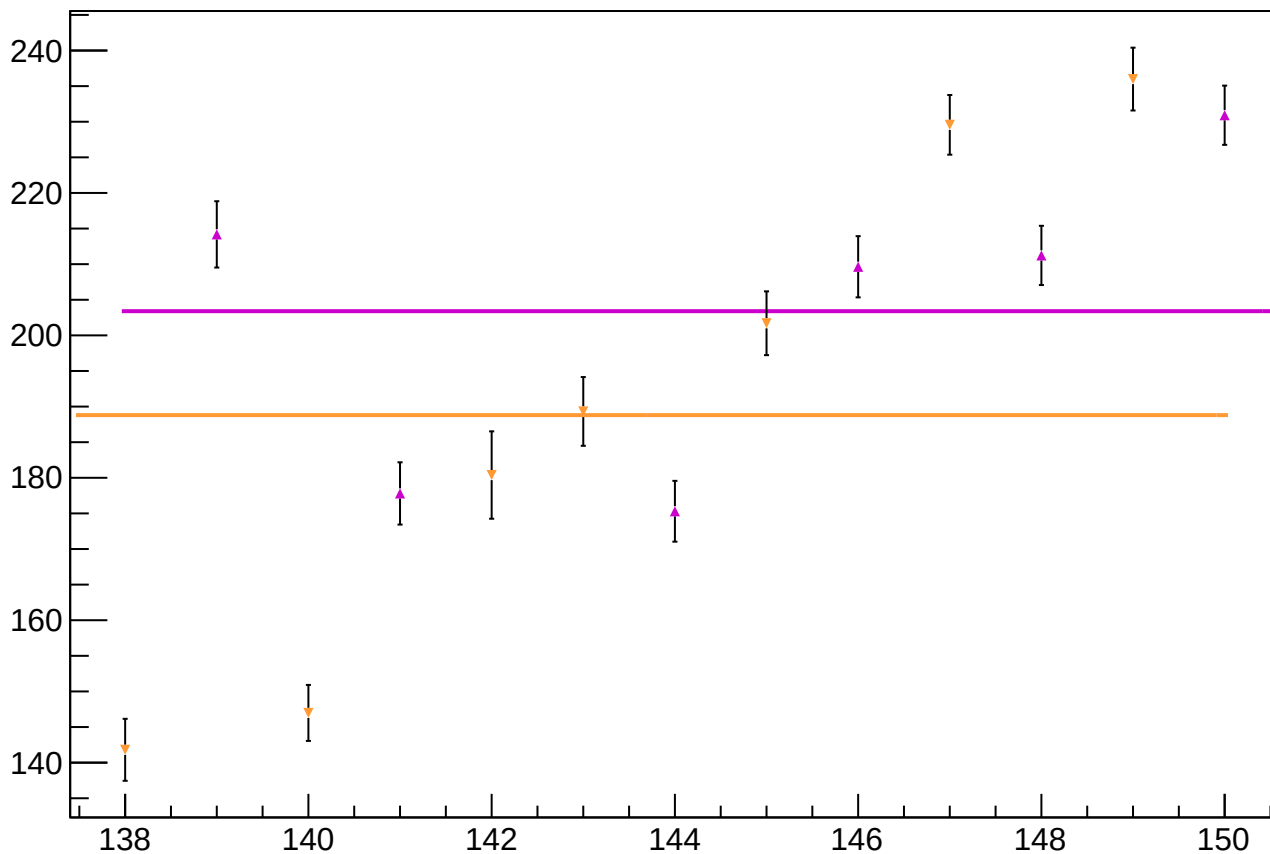
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -147.116+/-0.083  $\chi^2/\text{NDF}$ : 35462.0/5

Out: -154.595+/-0.085  $\chi^2/\text{NDF}$ : 44371.5/6

All: -150.730+/-0.059  $\chi^2/\text{NDF}$ : 83790.3/12

reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 188.801+/-1.702  $\chi^2/\text{NDF}$ : 449.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 203.398+/-1.759  $\chi^2/\text{NDF}$ : 132.4/5

Left: 195.858+/-1.223  $\chi^2/\text{NDF}$ : 617.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

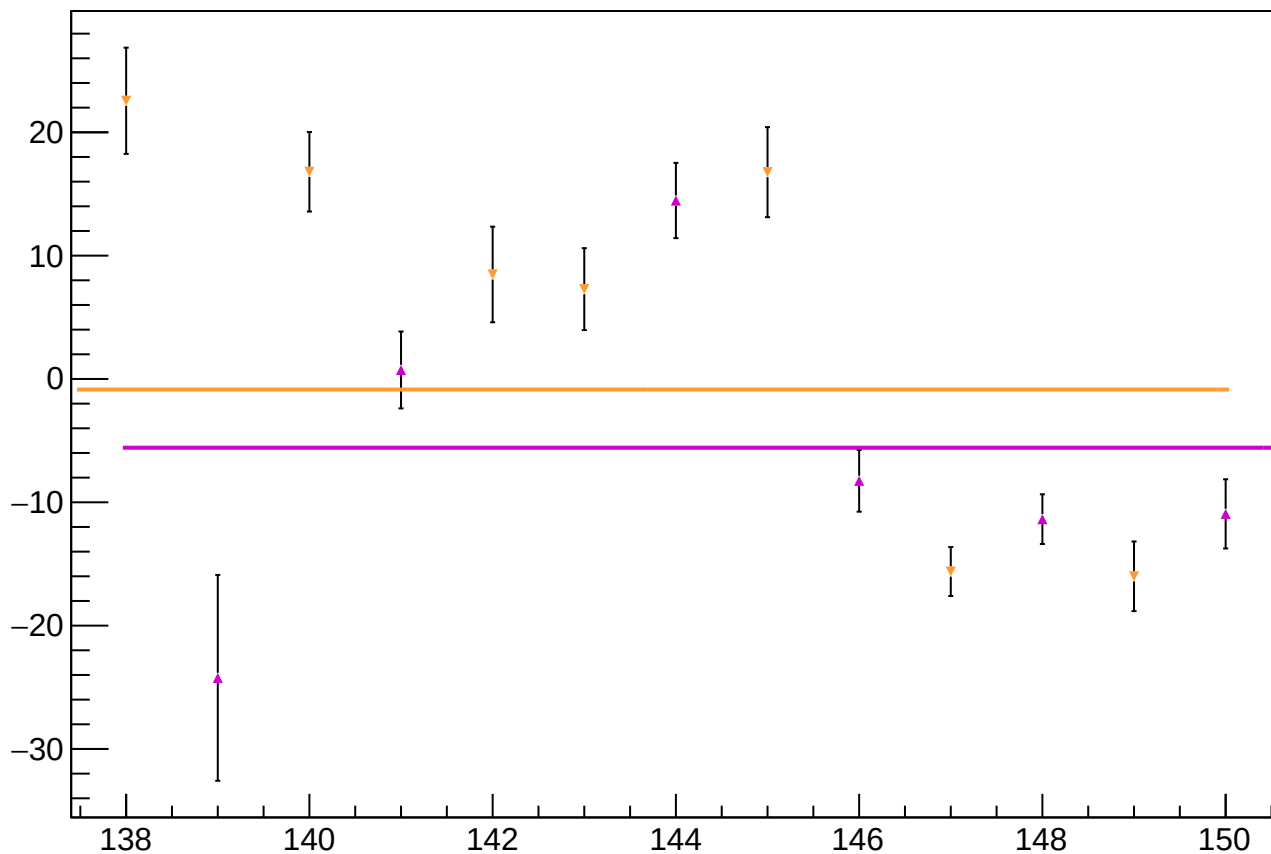
In: 203.398+/-1.759  $\chi^2/\text{NDF}$ : 132.4/5

Out: 188.801+/-1.702  $\chi^2/\text{NDF}$ : 449.1/6

All: 195.858+/-1.223  $\chi^2/\text{NDF}$ : 617.0/12



reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.858+/-1.146  $\chi^2/\text{NDF}$ :178.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -5.573+/-1.149  $\chi^2/\text{NDF}$ :65.3/5

Left: -3.209+/-0.811  $\chi^2/\text{NDF}$ : 252.5/12

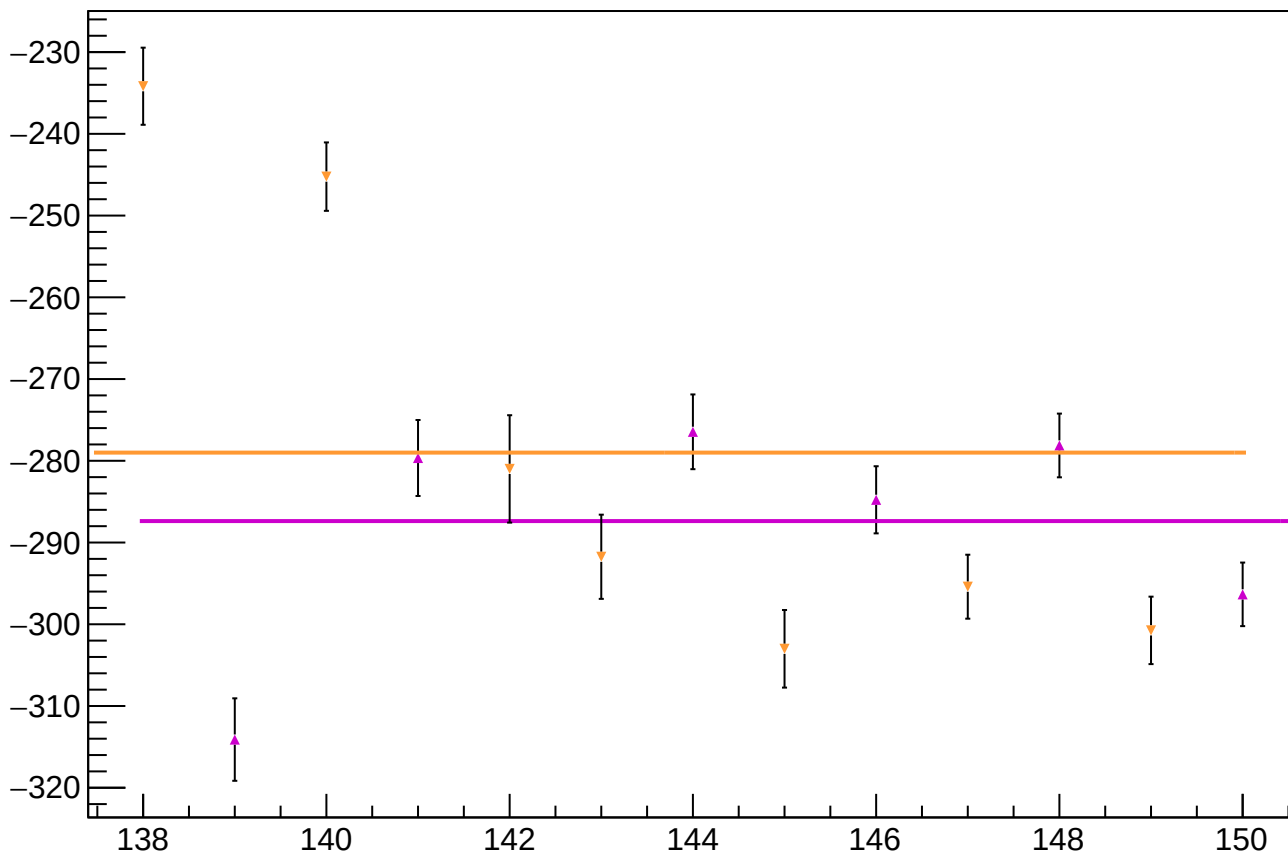
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -5.573+/-1.149  $\chi^2/\text{NDF}$ :65.3/5

Out: -0.858+/-1.146  $\chi^2/\text{NDF}$ :178.7/6

All: -3.209+/-0.811  $\chi^2/\text{NDF}$ : 252.5/12

reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -278.998+/-1.737  $\chi^2/\text{NDF}$ :232.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -287.375+/-1.755  $\chi^2/\text{NDF}$ :47.9/5

Left: -283.144+/-1.235  $\chi^2/\text{NDF}$ : 291.9/12

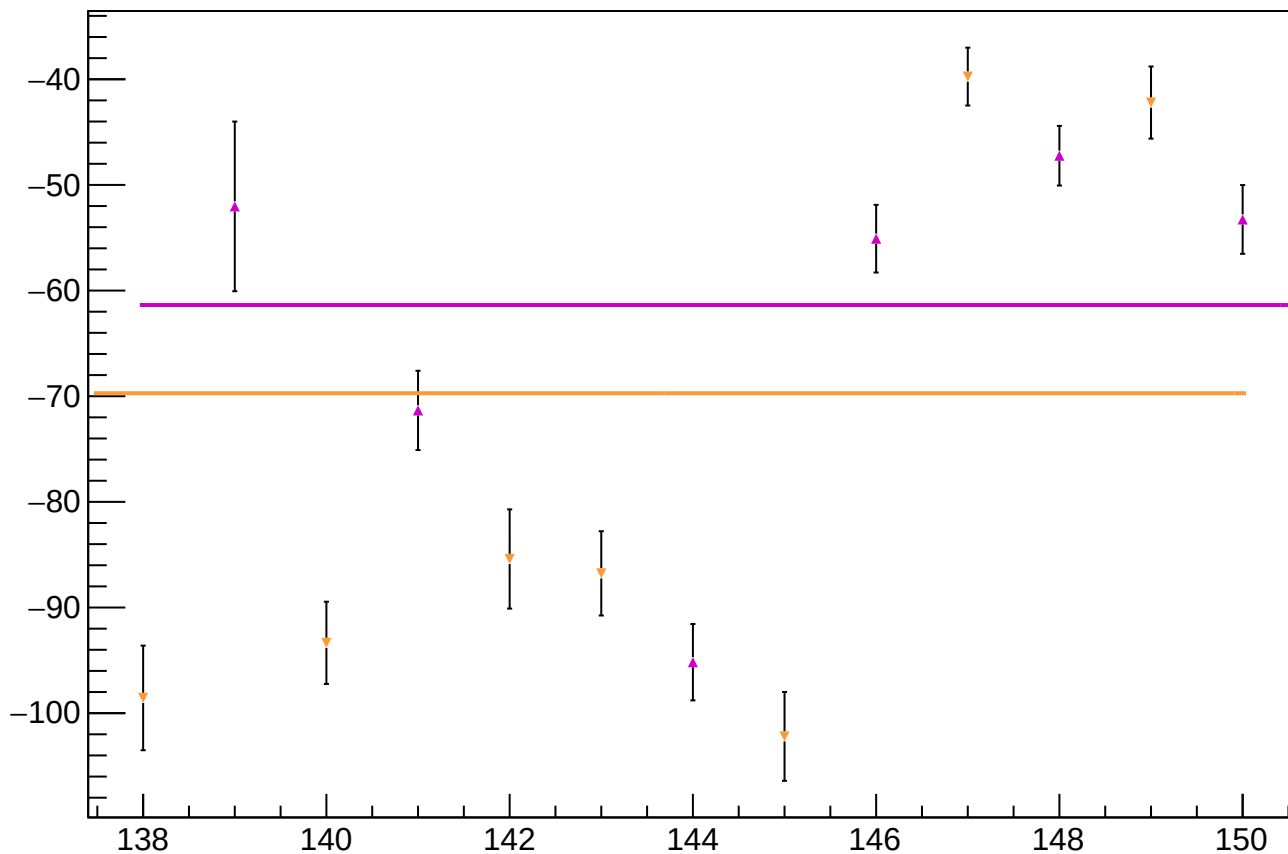
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -287.375+/-1.755  $\chi^2/\text{NDF}$ :47.9/5

Out: -278.998+/-1.737  $\chi^2/\text{NDF}$ :232.5/6

All: -283.144+/-1.235  $\chi^2/\text{NDF}$ : 291.9/12

reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -69.716+/-1.427  $\chi^2/\text{NDF}$ :344.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -61.367+/-1.443  $\chi^2/\text{NDF}$ :131.0/5

Left: -65.586+/-1.015  $\chi^2/\text{NDF}$ : 492.7/12

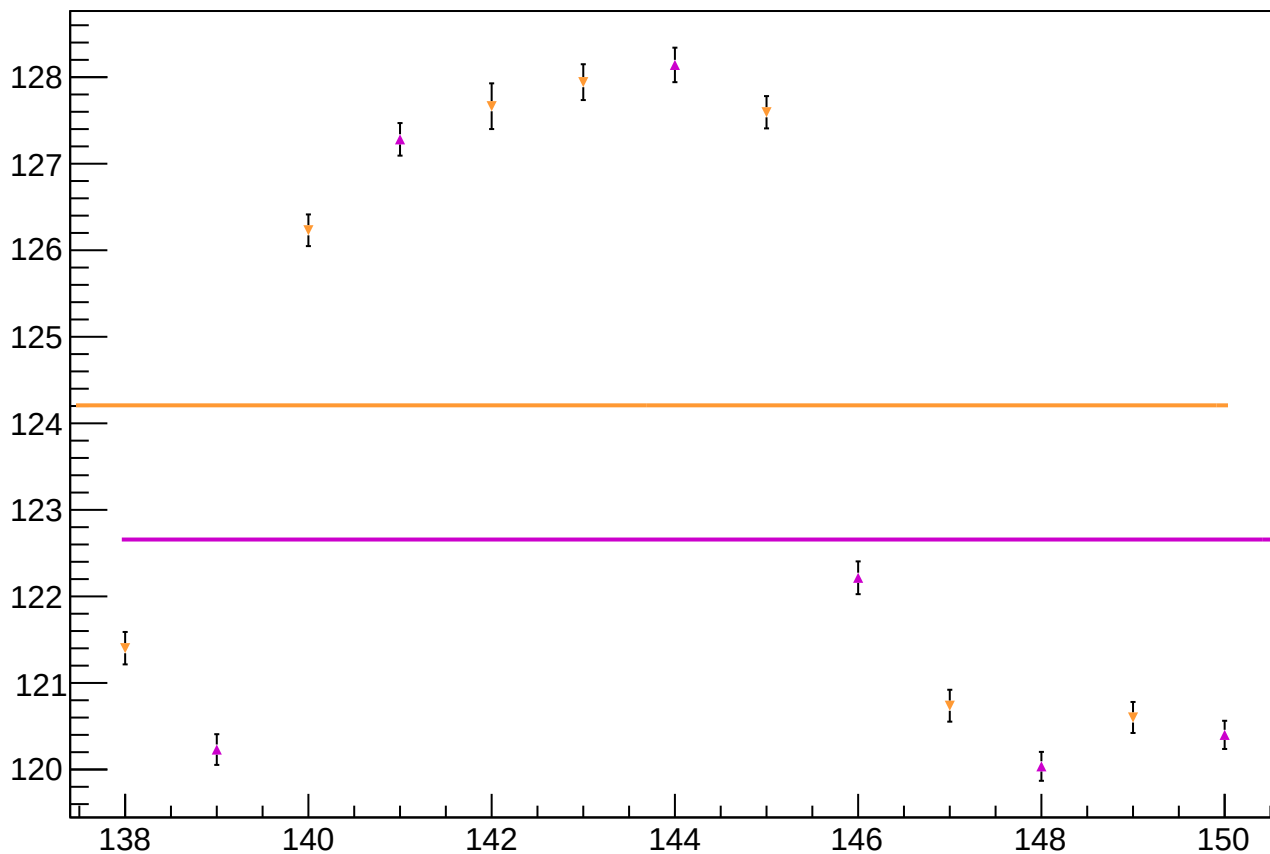
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -61.367+/-1.443  $\chi^2/\text{NDF}$ :131.0/5

Out: -69.716+/-1.427  $\chi^2/\text{NDF}$ :344.7/6

All: -65.586+/-1.015  $\chi^2/\text{NDF}$ : 492.7/12

reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 124.208+/-0.073  $\chi^2/\text{NDF}$ :1932.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 122.657+/-0.073  $\chi^2/\text{NDF}$ :1991.1/5

Left: 123.430+/-0.052  $\chi^2/\text{NDF}$ : 4147.1/12

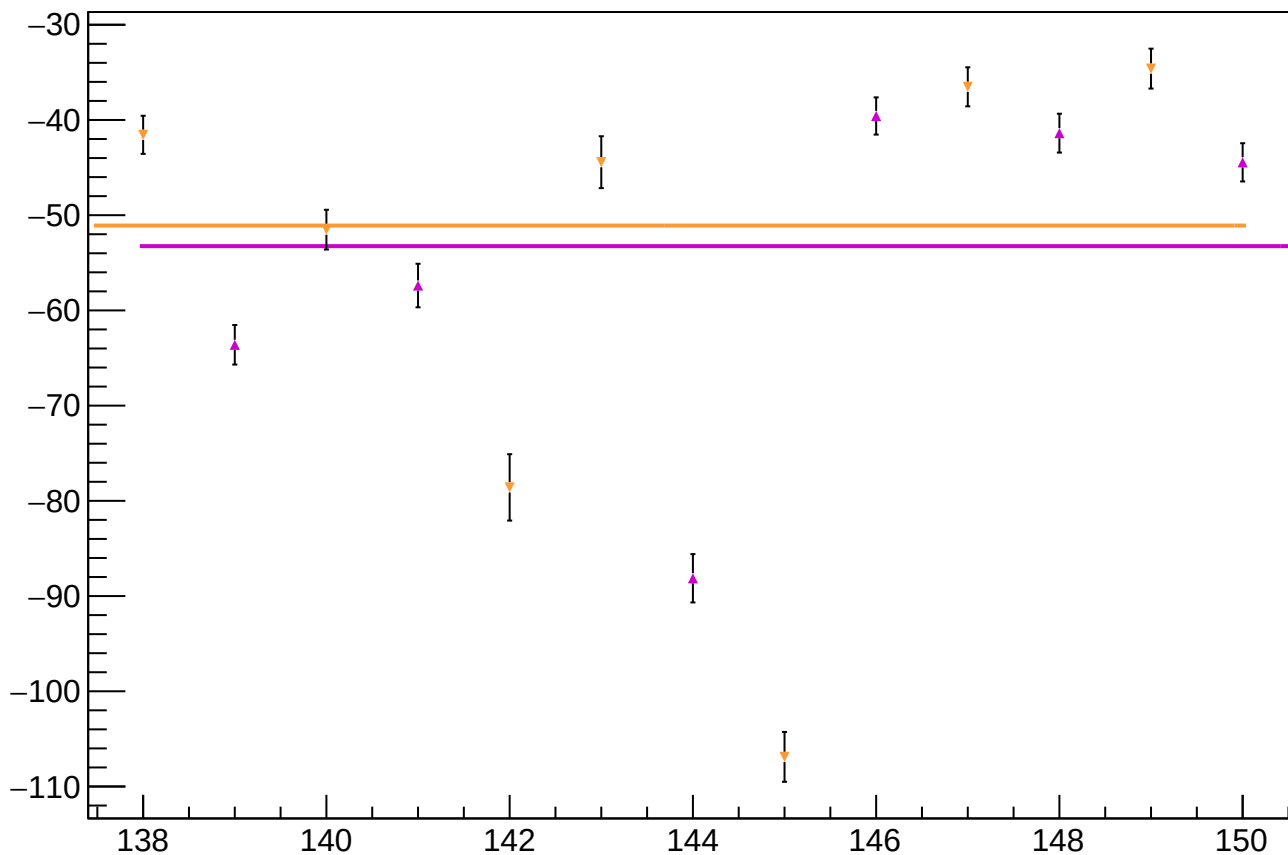
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 122.657+/-0.073  $\chi^2/\text{NDF}$ :1991.1/5

Out: 124.208+/-0.073  $\chi^2/\text{NDF}$ :1932.4/6

All: 123.430+/-0.052  $\chi^2/\text{NDF}$ : 4147.1/12

reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -51.088+/-0.874  $\chi^2/\text{NDF}$ : 657.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -53.250+/-0.868  $\chi^2/\text{NDF}$ : 319.0/5

Left: -52.177+/-0.616  $\chi^2/\text{NDF}$ : 979.3/12

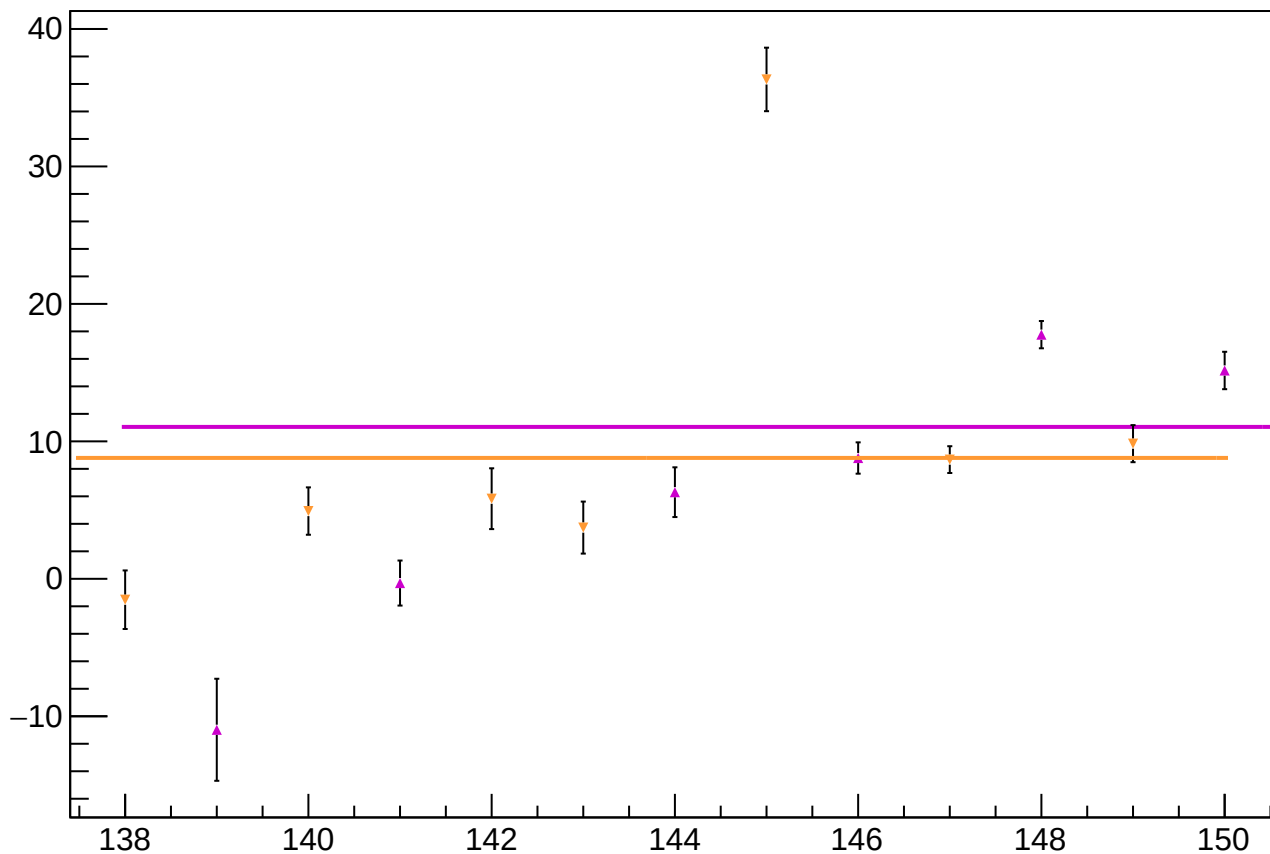
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -53.250+/-0.868  $\chi^2/\text{NDF}$ : 319.0/5

Out: -51.088+/-0.874  $\chi^2/\text{NDF}$ : 657.2/6

All: -52.177+/-0.616  $\chi^2/\text{NDF}$ : 979.3/12

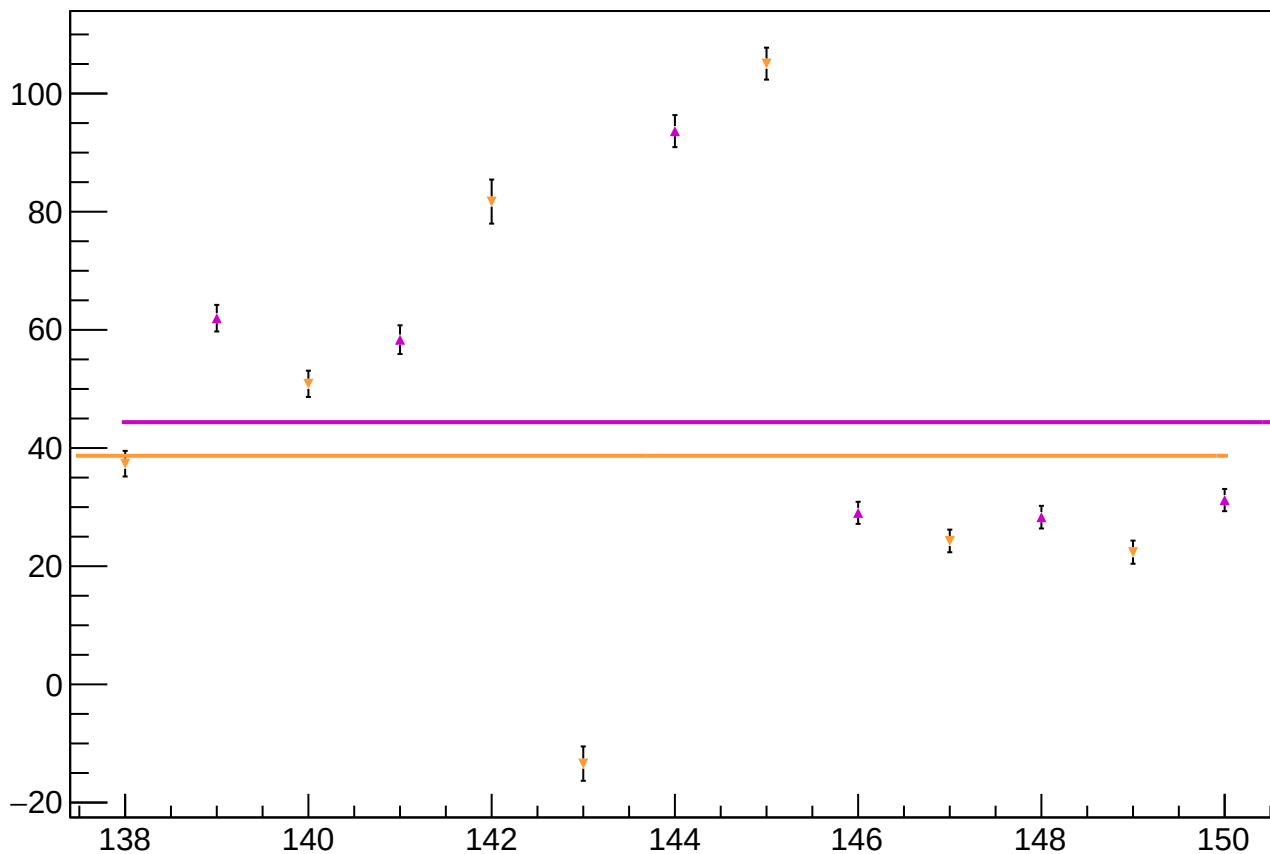
reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 8.795 $\pm$ 0.594  $\chi^2$ /NDF:180.1/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 11.051 $\pm$ 0.570  $\chi^2$ /NDF:149.0/5

Left: 9.970 $\pm$ 0.411  $\chi^2$ /NDF: 336.6/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 11.051 $\pm$ 0.570  $\chi^2$ /NDF:149.0/5  
 Out: 8.795 $\pm$ 0.594  $\chi^2$ /NDF:180.1/6  
 All: 9.970 $\pm$ 0.411  $\chi^2$ /NDF: 336.6/12

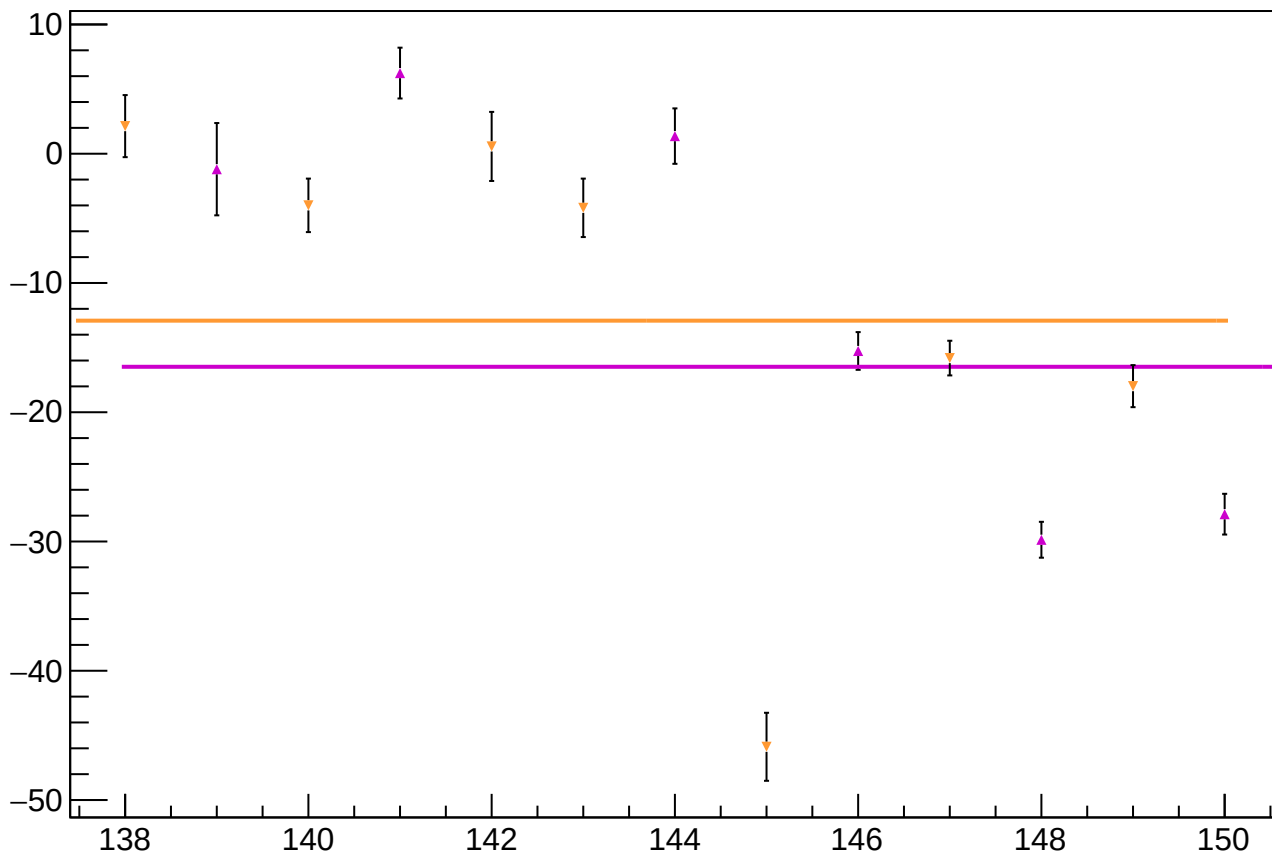
reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 38.695+/-0.886  $\chi^2/\text{NDF}$ :1213.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 44.383+/-0.862  $\chi^2/\text{NDF}$ :610.9/5

Left: 41.616+/-0.618  $\chi^2/\text{NDF}$ : 1845.2/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 44.383+/-0.862  $\chi^2/\text{NDF}$ :610.9/5  
 Out: 38.695+/-0.886  $\chi^2/\text{NDF}$ :1213.1/6  
 All: 41.616+/-0.618  $\chi^2/\text{NDF}$ : 1845.2/12

reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -12.915+/-0.741  $\chi^2/\text{NDF}$ :269.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -16.484+/-0.717  $\chi^2/\text{NDF}$ :367.2/5

Left: -14.758+/-0.515  $\chi^2/\text{NDF}$ : 648.8/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

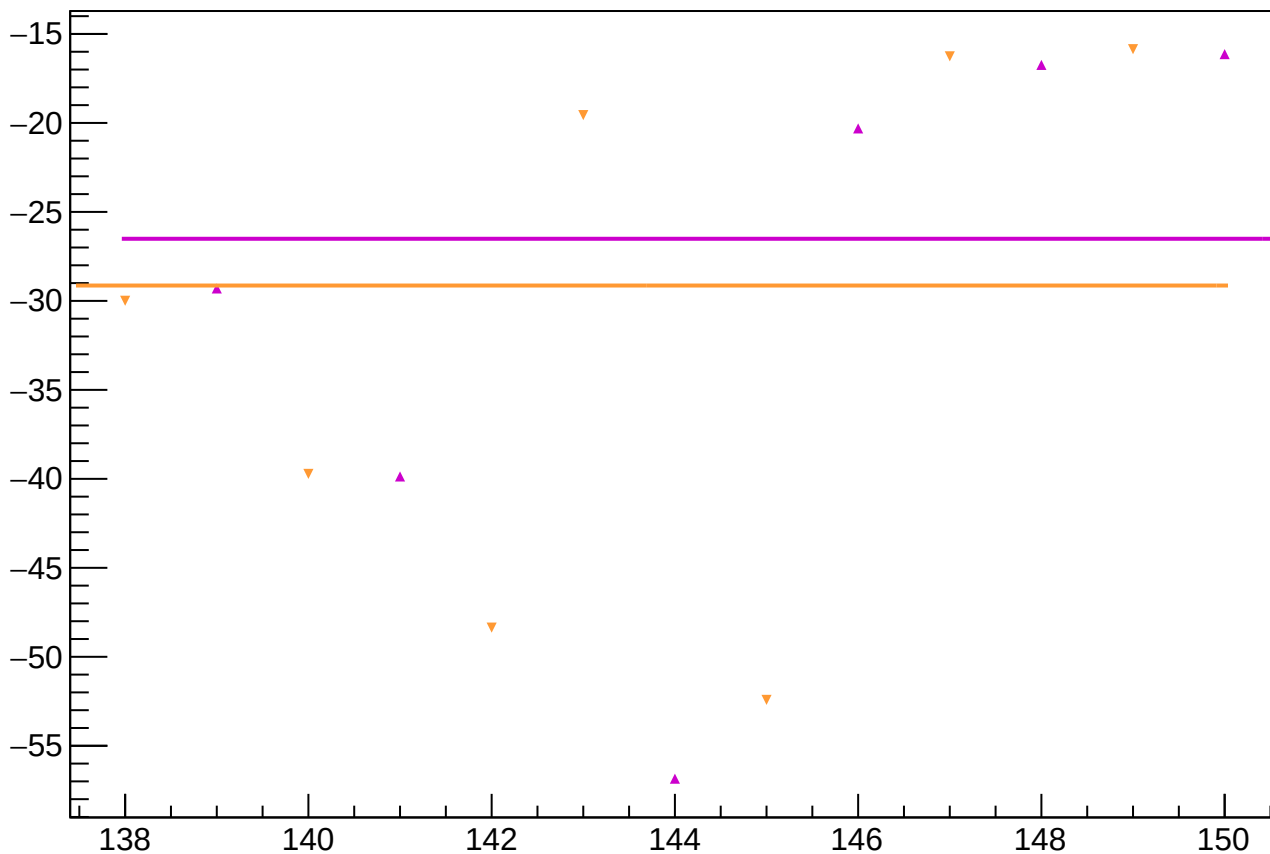
In: -16.484+/-0.717  $\chi^2/\text{NDF}$ :367.2/5

Out: -12.915+/-0.741  $\chi^2/\text{NDF}$ :269.6/6

All: -14.758+/-0.515  $\chi^2/\text{NDF}$ : 648.8/12



reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -29.136+/-0.037  $\chi^2/\text{NDF}$ :127475.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -26.510+/-0.036  $\chi^2/\text{NDF}$ :121628.2/5

Left: -27.764+/-0.026  $\chi^2/\text{NDF}$ : 251679.6/12

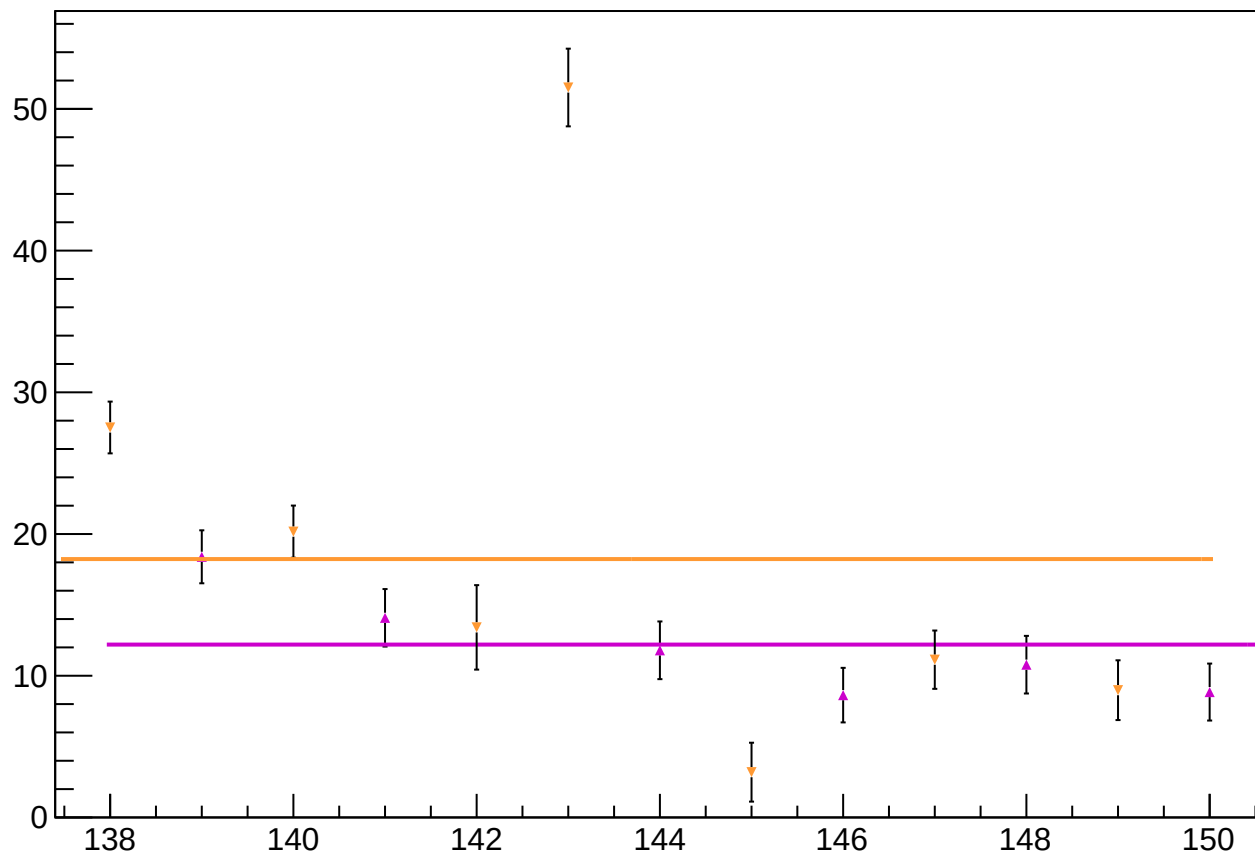
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -26.510+/-0.036  $\chi^2/\text{NDF}$ :121628.2/5

Out: -29.136+/-0.037  $\chi^2/\text{NDF}$ :127475.6/6

All: -27.764+/-0.026  $\chi^2/\text{NDF}$ : 251679.6/12

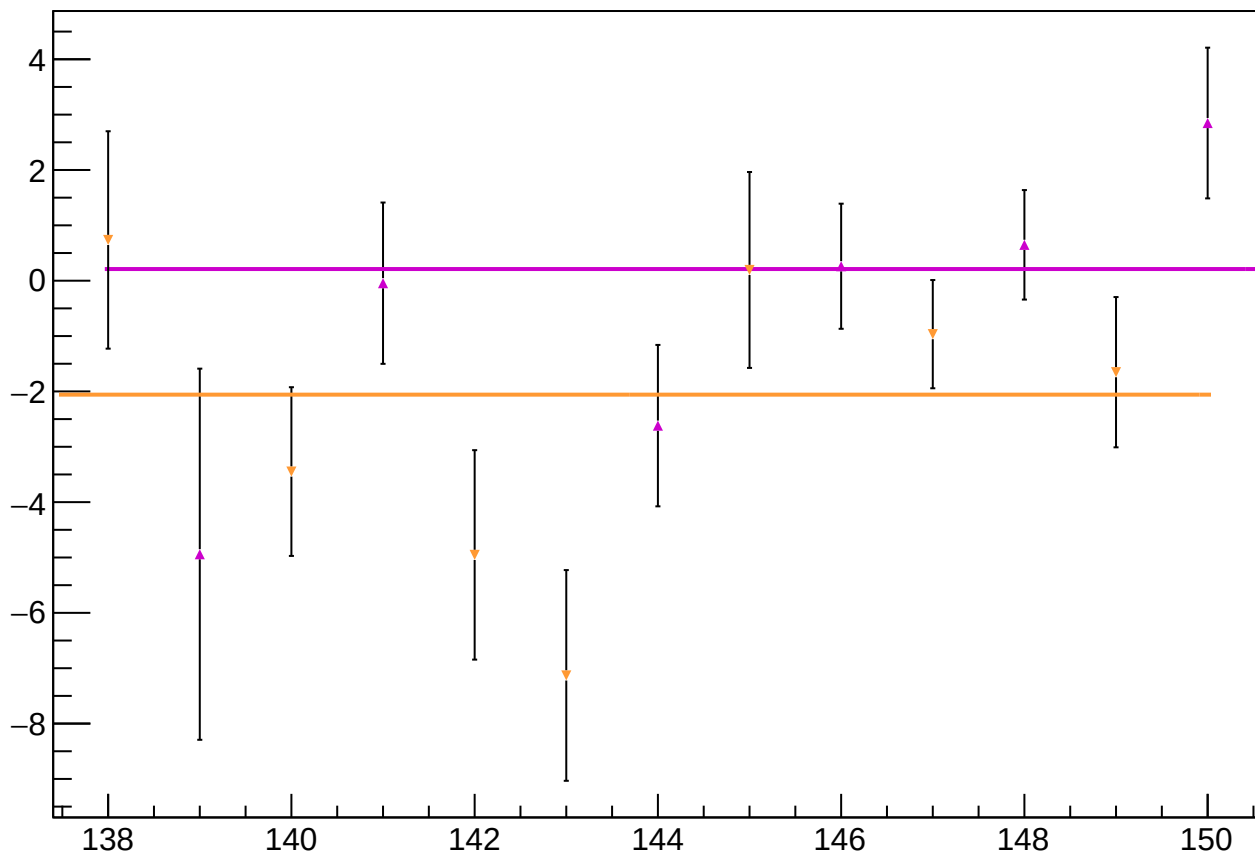
reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 18.233 $\pm$ 0.808  $\chi^2$ /NDF:260.4/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 12.199 $\pm$ 0.808  $\chi^2$ /NDF:18.6/5

Left: 15.219 $\pm$ 0.571  $\chi^2$ /NDF: 306.9/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 12.199 $\pm$ 0.808  $\chi^2$ /NDF:18.6/5  
 Out: 18.233 $\pm$ 0.808  $\chi^2$ /NDF:260.4/6  
 All: 15.219 $\pm$ 0.571  $\chi^2$ /NDF: 306.9/12

reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2.058+/-0.563  $\chi^2/\text{NDF}$ :15.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.211+/-0.544  $\chi^2/\text{NDF}$ :10.1/5

Left: -0.885+/-0.391  $\chi^2/\text{NDF}$ : 33.8/12

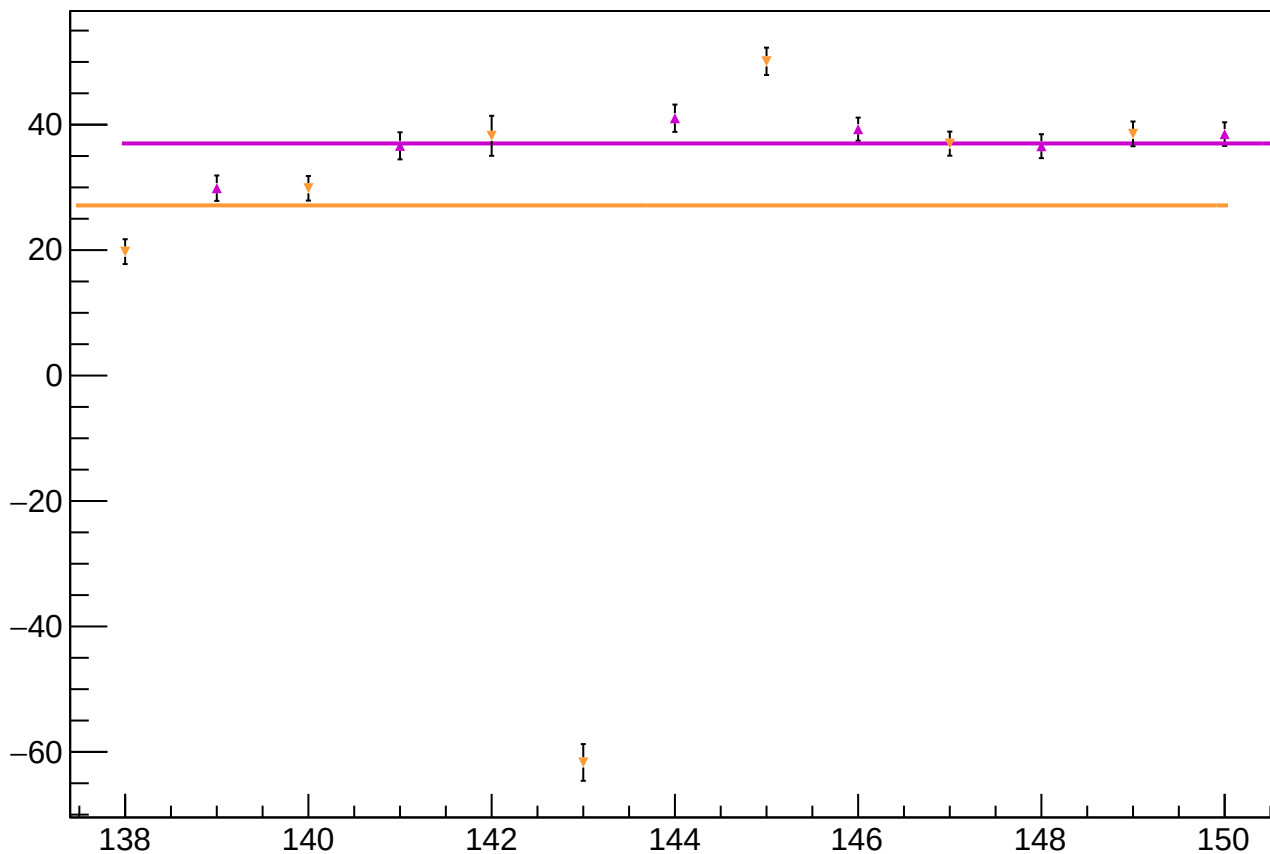
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.211+/-0.544  $\chi^2/\text{NDF}$ :10.1/5

Out: -2.058+/-0.563  $\chi^2/\text{NDF}$ :15.3/6

All: -0.885+/-0.391  $\chi^2/\text{NDF}$ : 33.8/12

reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 27.130+/-0.825  $\chi^2/\text{NDF}$ :1119.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 37.005+/-0.810  $\chi^2/\text{NDF}$ :18.0/5

Left: 32.156+/-0.578  $\chi^2/\text{NDF}$ : 1210.7/12

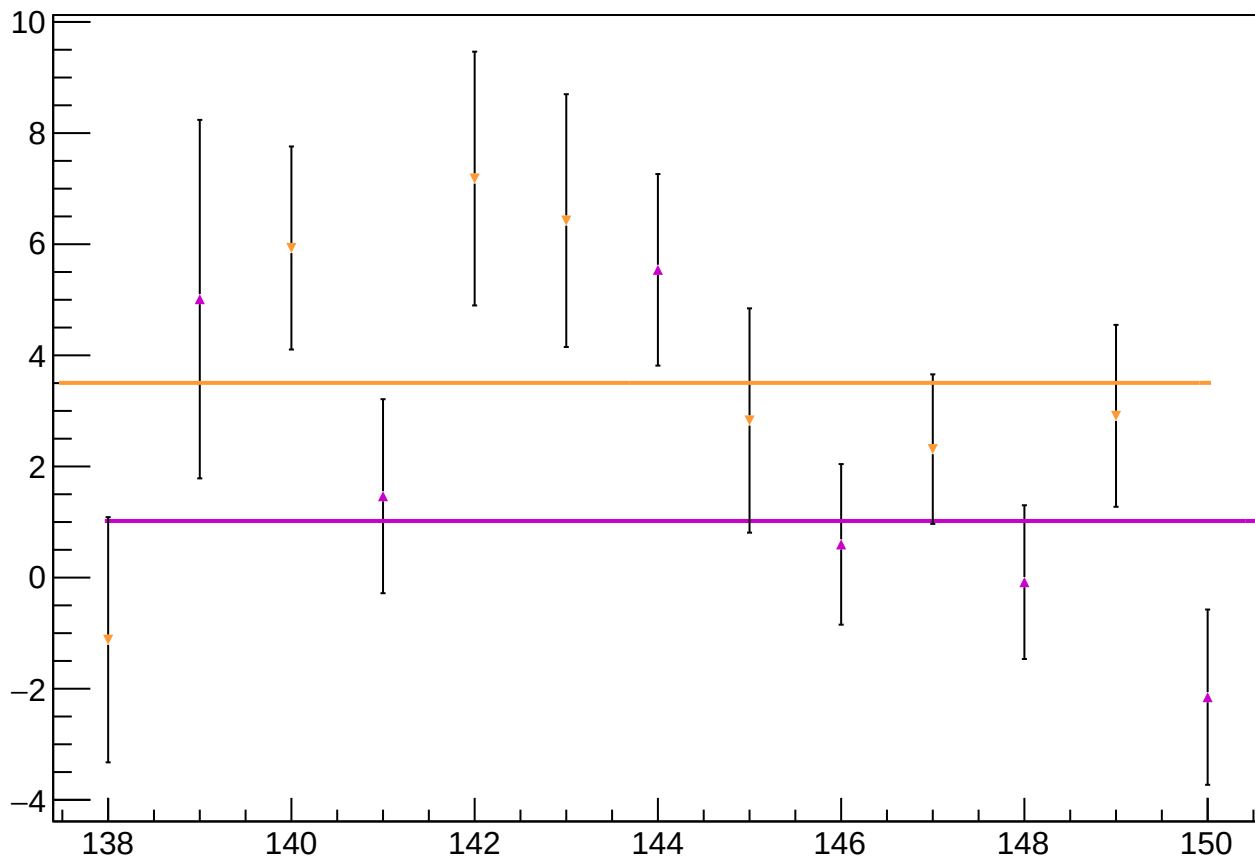
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 37.005+/-0.810  $\chi^2/\text{NDF}$ :18.0/5

Out: 27.130+/-0.825  $\chi^2/\text{NDF}$ :1119.8/6

All: 32.156+/-0.578  $\chi^2/\text{NDF}$ : 1210.7/12

reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.505 $\pm$ 0.697  $\chi^2$ /NDF:11.4/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1.019 $\pm$ 0.680  $\chi^2$ /NDF:13.2/5

Left: 2.232 $\pm$ 0.487  $\chi^2$ /NDF: 31.2/12

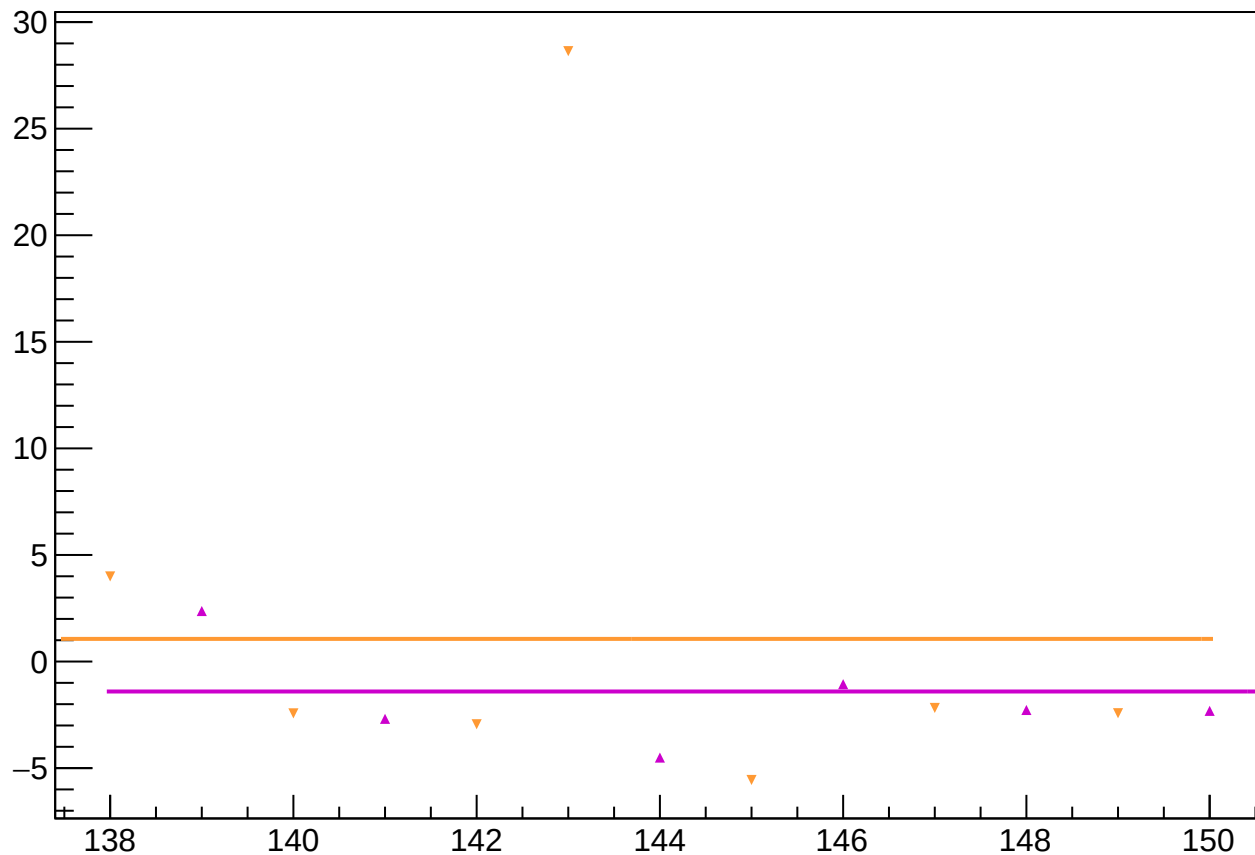
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 1.019 $\pm$ 0.680  $\chi^2$ /NDF:13.2/5

Out: 3.505 $\pm$ 0.697  $\chi^2$ /NDF:11.4/6

All: 2.232 $\pm$ 0.487  $\chi^2$ /NDF: 31.2/12

reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1.062+/-0.035  $\chi^2/\text{NDF}$ : 68492.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1.405+/-0.034  $\chi^2/\text{NDF}$ : 4348.6/5

Left: -0.210+/-0.024  $\chi^2/\text{NDF}$ : 75469.6/12

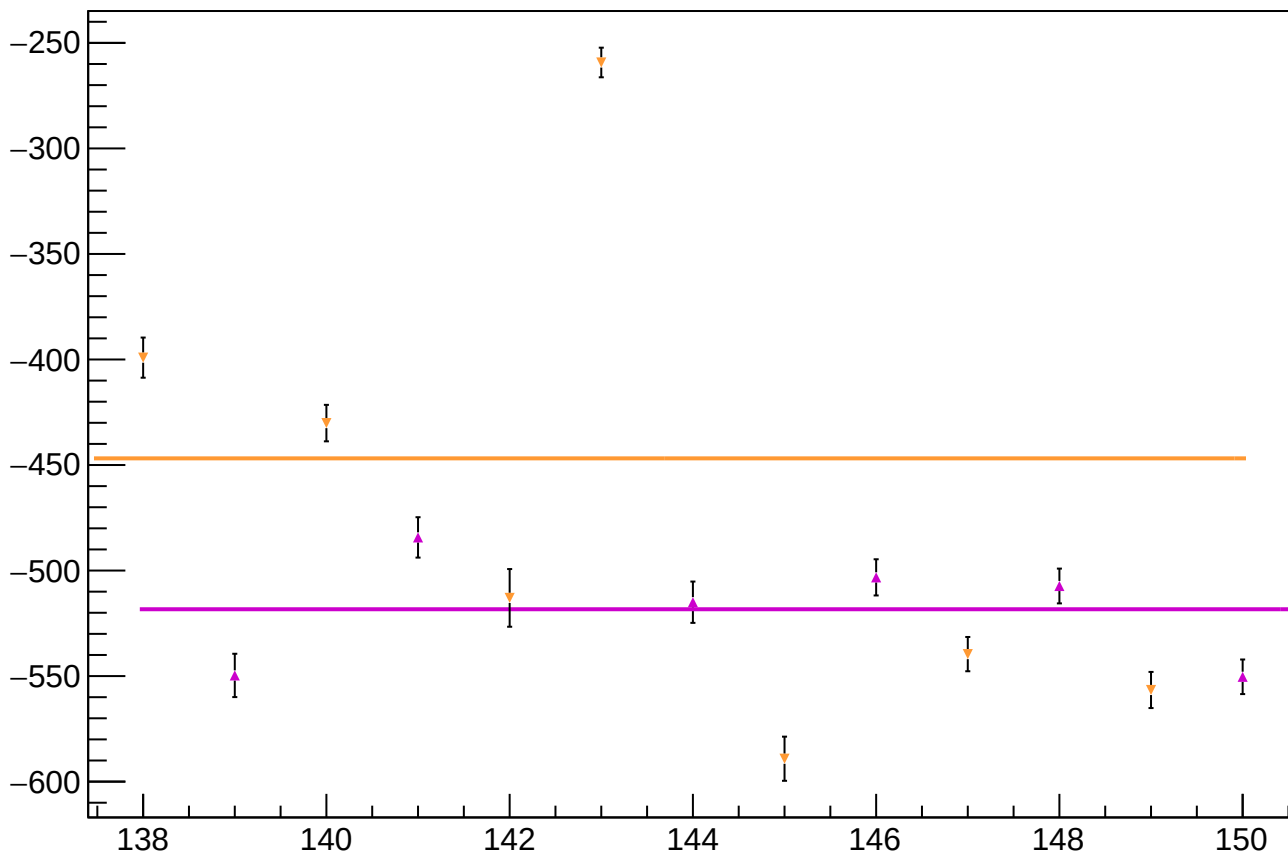
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.405+/-0.034  $\chi^2/\text{NDF}$ : 4348.6/5

Out: 1.062+/-0.035  $\chi^2/\text{NDF}$ : 68492.5/6

All: -0.210+/-0.024  $\chi^2/\text{NDF}$ : 75469.6/12

reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -446.847+/-3.370  $\chi^2/\text{NDF}$ :1246.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -518.334+/-3.674  $\chi^2/\text{NDF}$ :42.2/5

Left: -479.510+/-2.484  $\chi^2/\text{NDF}$ : 1494.4/12

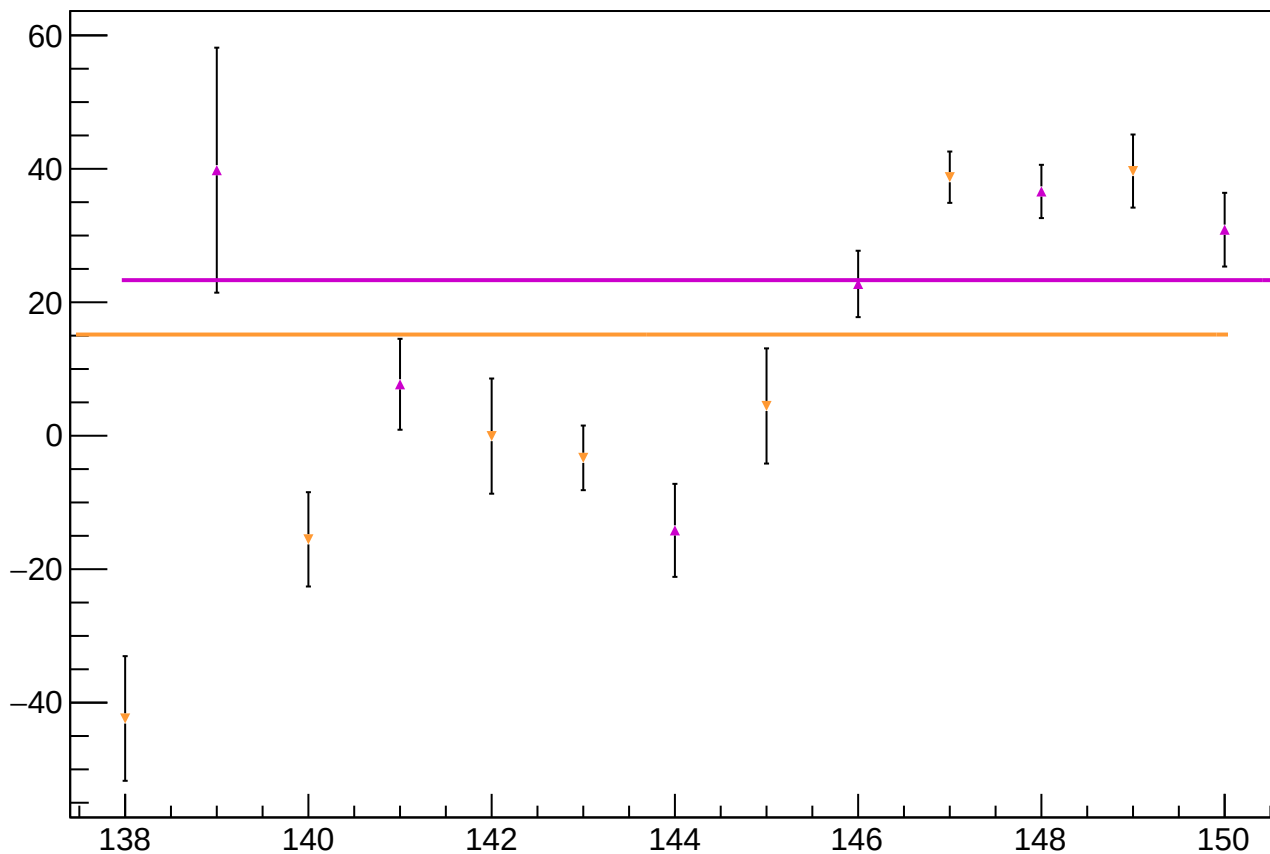
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -518.334+/-3.674  $\chi^2/\text{NDF}$ :42.2/5

Out: -446.847+/-3.370  $\chi^2/\text{NDF}$ :1246.5/6

All: -479.510+/-2.484  $\chi^2/\text{NDF}$ : 1494.4/12

reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected

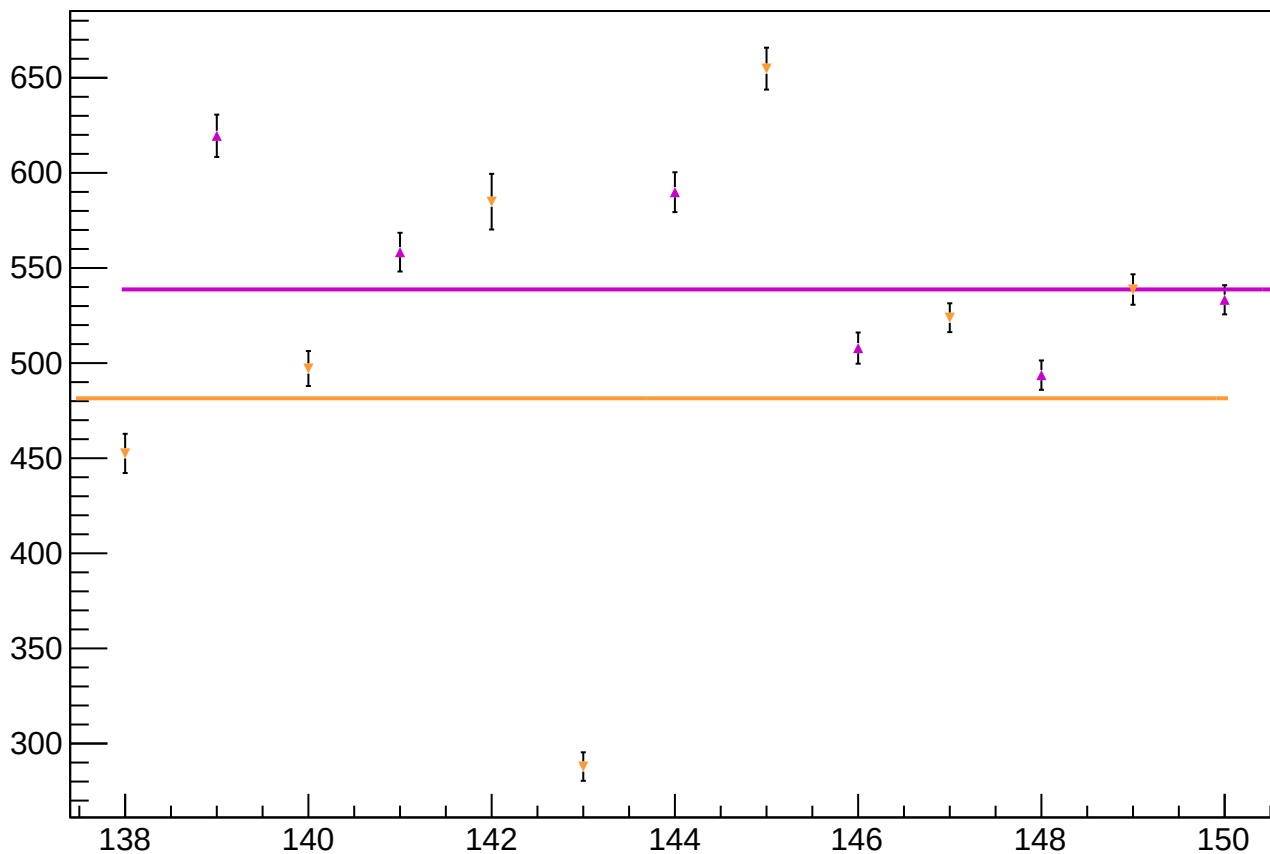


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 15.166+/-2.225  $\chi^2/\text{NDF}$ :133.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 23.318+/-2.350  $\chi^2/\text{NDF}$ :48.0/5

Left: 19.020+/-1.616  $\chi^2/\text{NDF}$ : 187.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 23.318+/-2.350  $\chi^2/\text{NDF}$ :48.0/5  
 Out: 15.166+/-2.225  $\chi^2/\text{NDF}$ :133.6/6  
 All: 19.020+/-1.616  $\chi^2/\text{NDF}$ : 187.9/12



reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 481.504+/-3.431  $\chi^2/\text{NDF}$ :1058.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 538.739+/-3.638  $\chi^2/\text{NDF}$ :129.0/5

Left: 508.449+/-2.496  $\chi^2/\text{NDF}$ : 1318.3/12

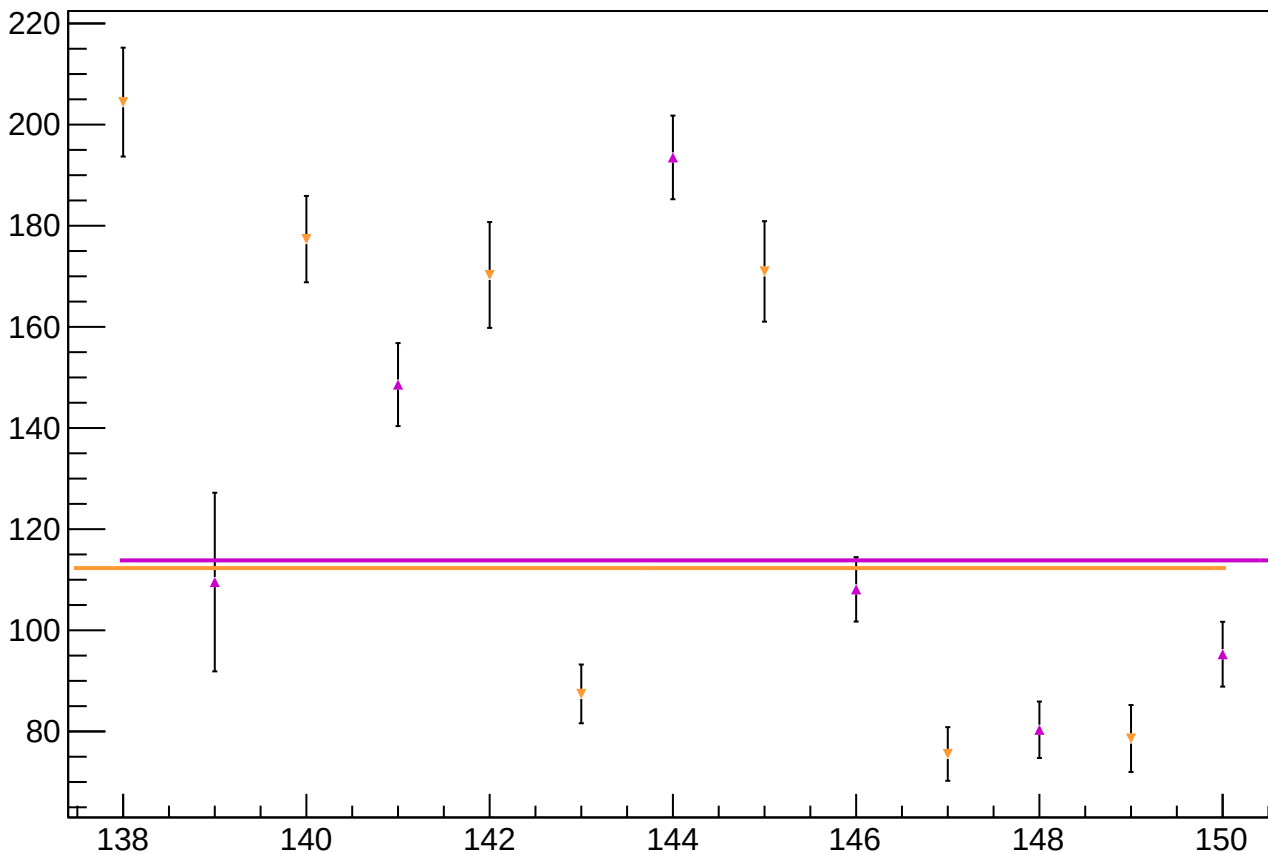
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 538.739+/-3.638  $\chi^2/\text{NDF}$ :129.0/5

Out: 481.504+/-3.431  $\chi^2/\text{NDF}$ :1058.3/6

All: 508.449+/-2.496  $\chi^2/\text{NDF}$ : 1318.3/12

reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 112.305+/-2.778  $\chi^2/\text{NDF}$ :289.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 113.829+/-2.965  $\chi^2/\text{NDF}$ :156.0/5

Left: 113.017+/-2.027  $\chi^2/\text{NDF}$ : 445.3/12

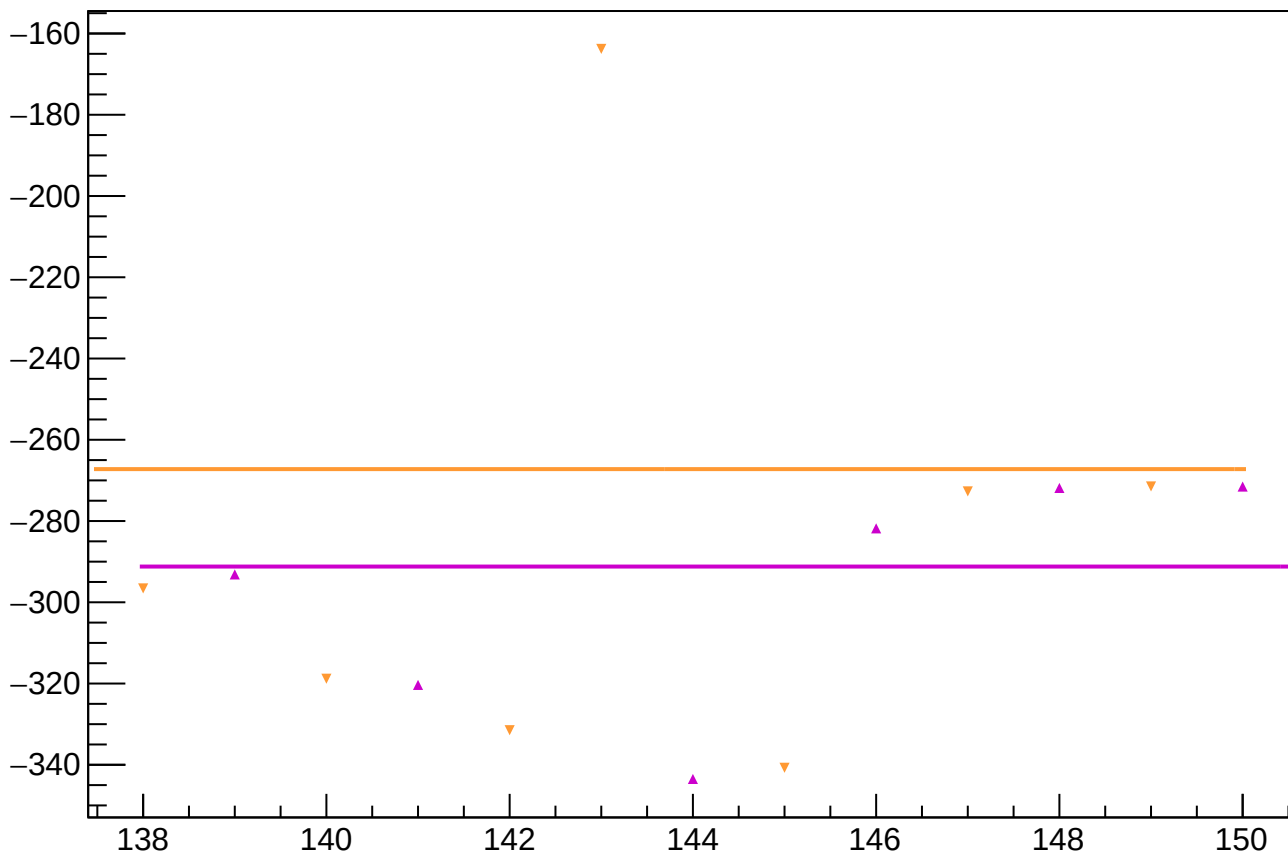
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 113.829+/-2.965  $\chi^2/\text{NDF}$ :156.0/5

Out: 112.305+/-2.778  $\chi^2/\text{NDF}$ :289.2/6

All: 113.017+/-2.027  $\chi^2/\text{NDF}$ : 445.3/12

reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-267.221 \pm 0.145$   $\chi^2/\text{NDF}: 180842.7/6$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $-291.206 \pm 0.152$   $\chi^2/\text{NDF}: 25850.5/5$

Left:  $-278.630 \pm 0.105$   $\chi^2/\text{NDF}: 219675.5/12$

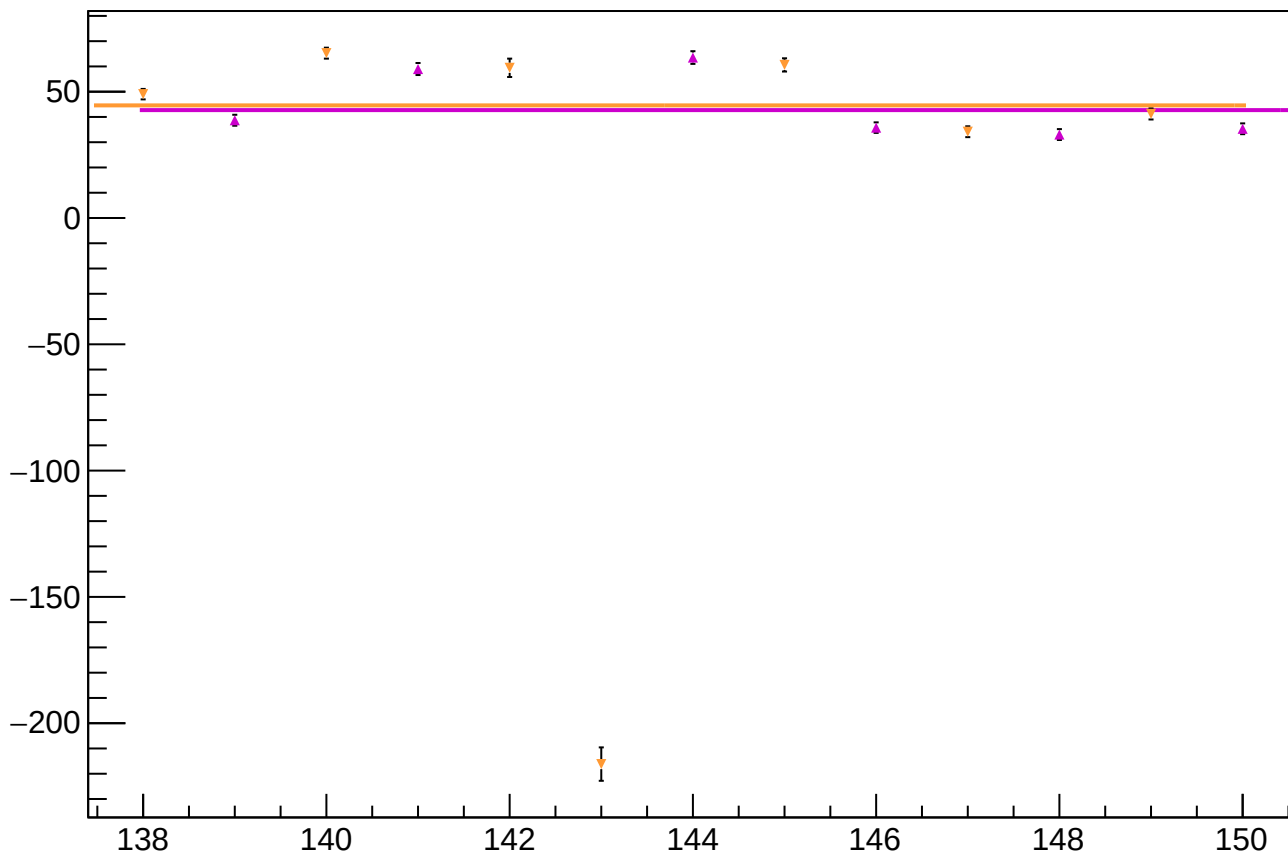
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-291.206 \pm 0.152$   $\chi^2/\text{NDF}: 25850.5/5$

Out:  $-267.221 \pm 0.145$   $\chi^2/\text{NDF}: 180842.7/6$

All:  $-278.630 \pm 0.105$   $\chi^2/\text{NDF}: 219675.5/12$

reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 44.581+/-0.949  $\chi^2/\text{NDF}$ :1730.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 42.710+/-0.908  $\chi^2/\text{NDF}$ :161.9/5

Left: 43.604+/-0.656  $\chi^2/\text{NDF}$ : 1894.4/12

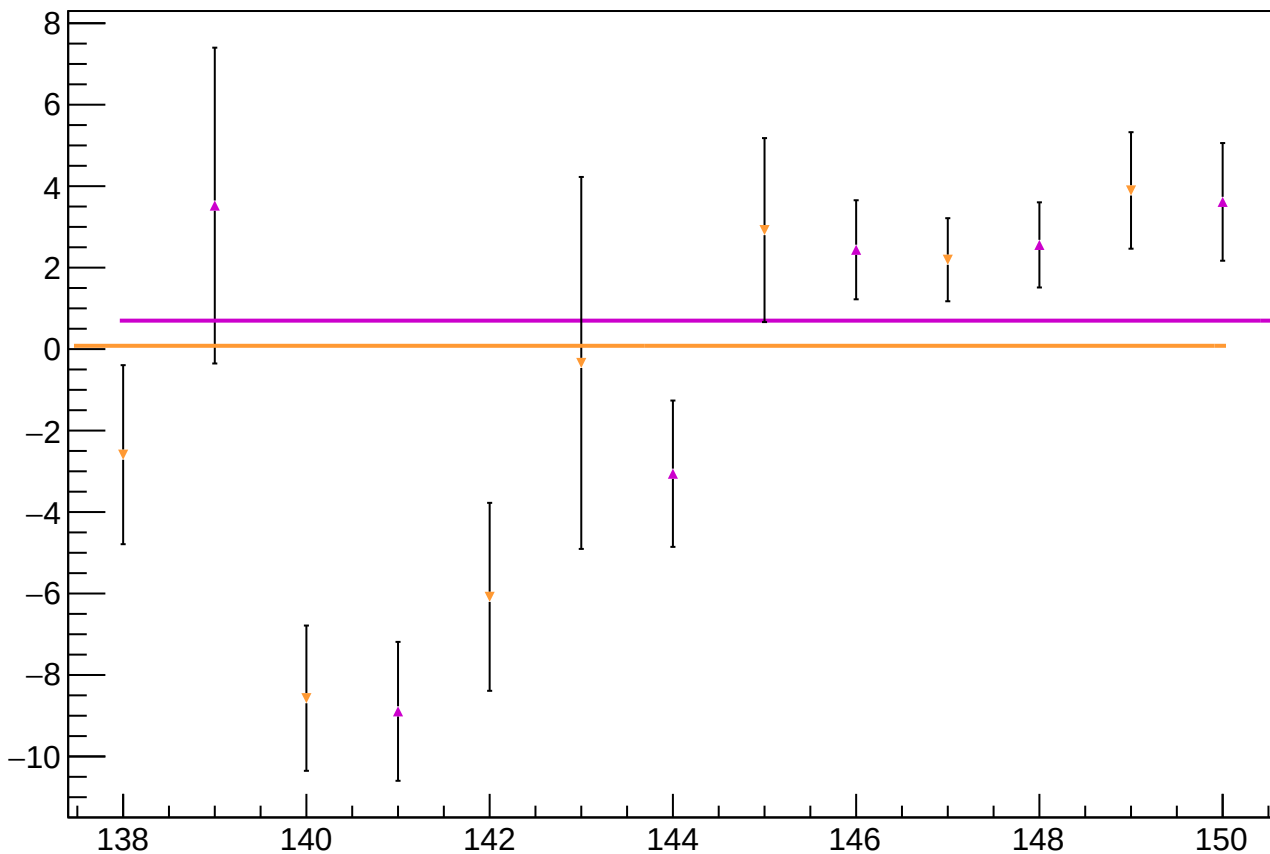
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 42.710+/-0.908  $\chi^2/\text{NDF}$ :161.9/5

Out: 44.581+/-0.949  $\chi^2/\text{NDF}$ :1730.4/6

All: 43.604+/-0.656  $\chi^2/\text{NDF}$ : 1894.4/12

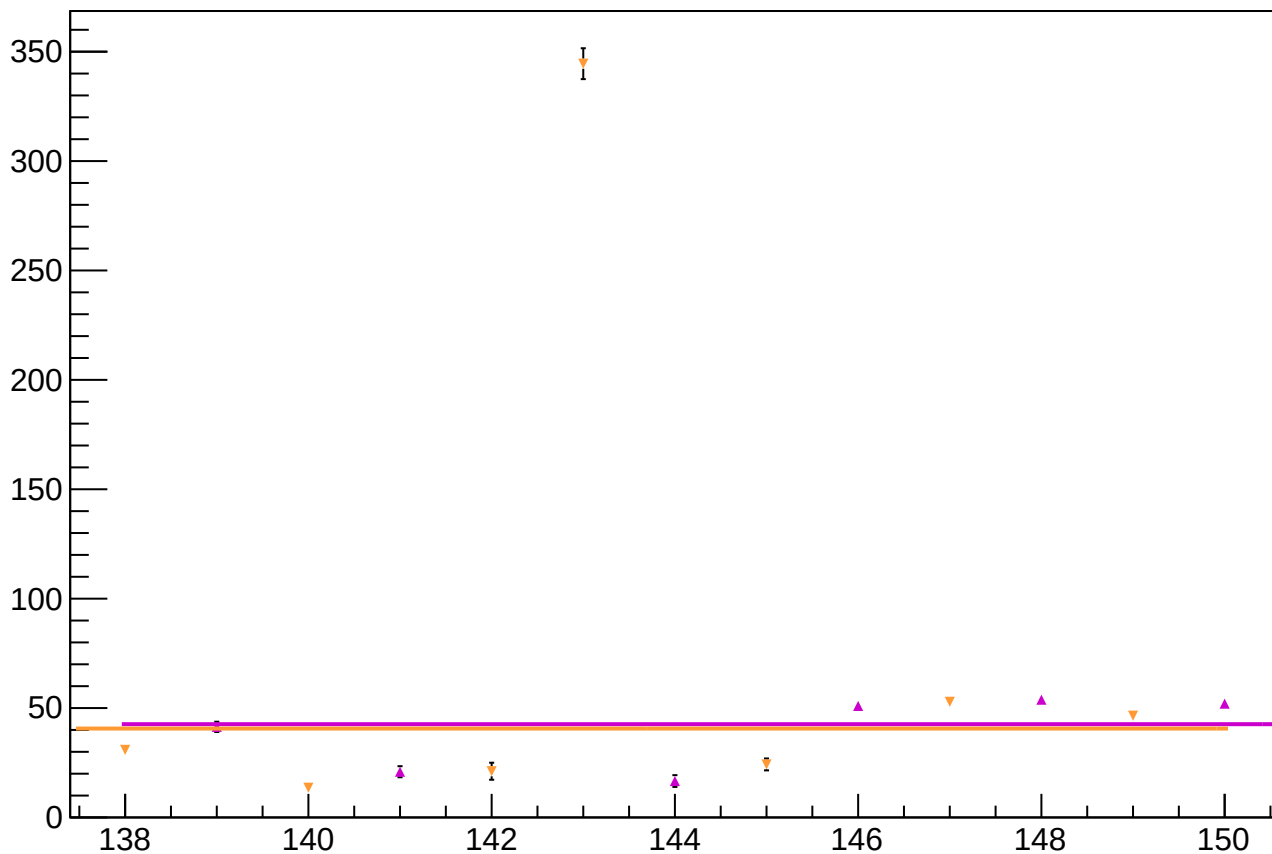
reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.081+/-0.645  $\chi^2/\text{NDF}$ :45.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.699+/-0.599  $\chi^2/\text{NDF}$ :45.8/5

Left: 0.413+/-0.439  $\chi^2/\text{NDF}$ : 91.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.699+/-0.599  $\chi^2/\text{NDF}$ :45.8/5  
 Out: 0.081+/-0.645  $\chi^2/\text{NDF}$ :45.1/6  
 All: 0.413+/-0.439  $\chi^2/\text{NDF}$ : 91.5/12

reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 40.634+/-0.959  $\chi^2/\text{NDF}$ :2116.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 42.631+/-0.904  $\chi^2/\text{NDF}$ :237.9/5

Left: 41.692+/-0.658  $\chi^2/\text{NDF}$ : 2356.4/12

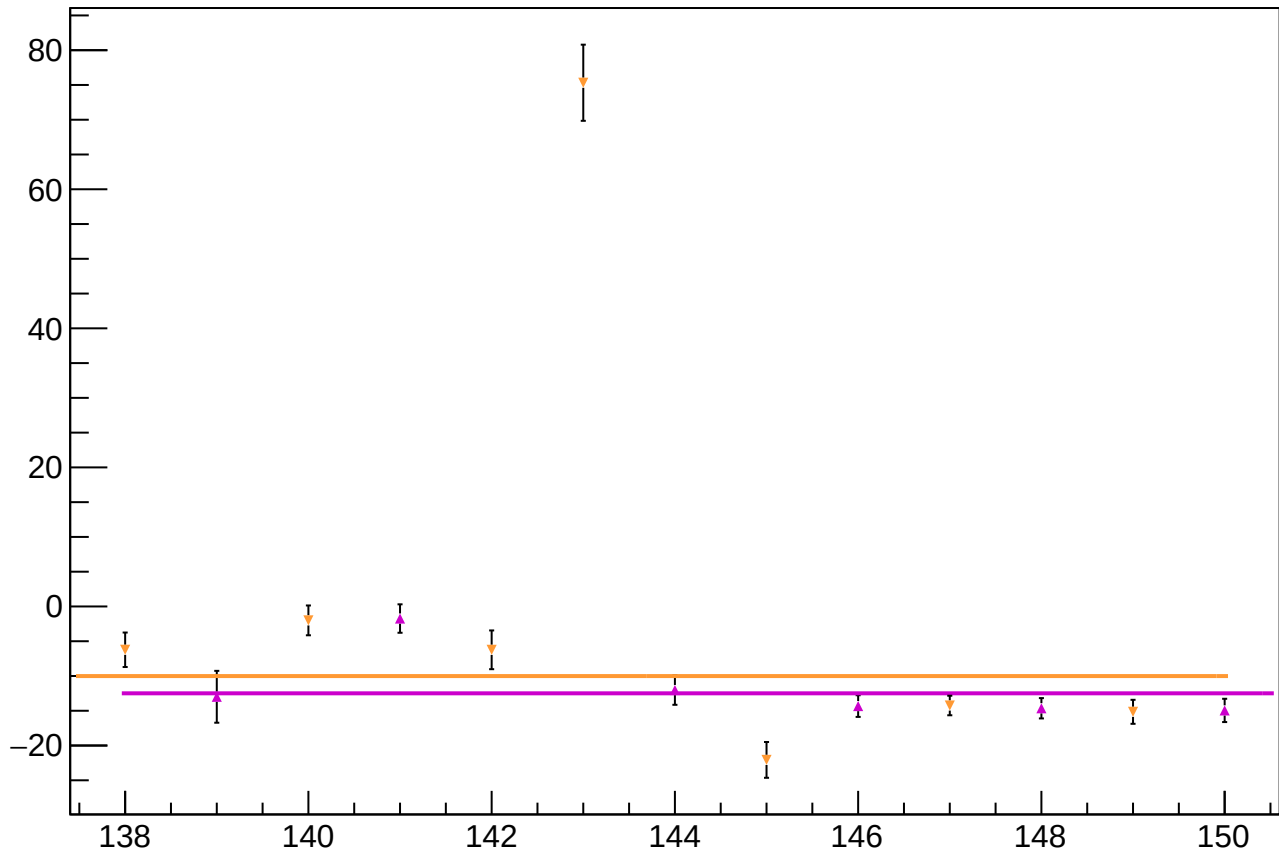
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 42.631+/-0.904  $\chi^2/\text{NDF}$ :237.9/5

Out: 40.634+/-0.959  $\chi^2/\text{NDF}$ :2116.2/6

All: 41.692+/-0.658  $\chi^2/\text{NDF}$ : 2356.4/12

reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.012+/-0.807  $\chi^2/\text{NDF}$ :300.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -12.491+/-0.752  $\chi^2/\text{NDF}$ :33.4/5

Left: -11.339+/-0.550  $\chi^2/\text{NDF}$ : 339.3/12

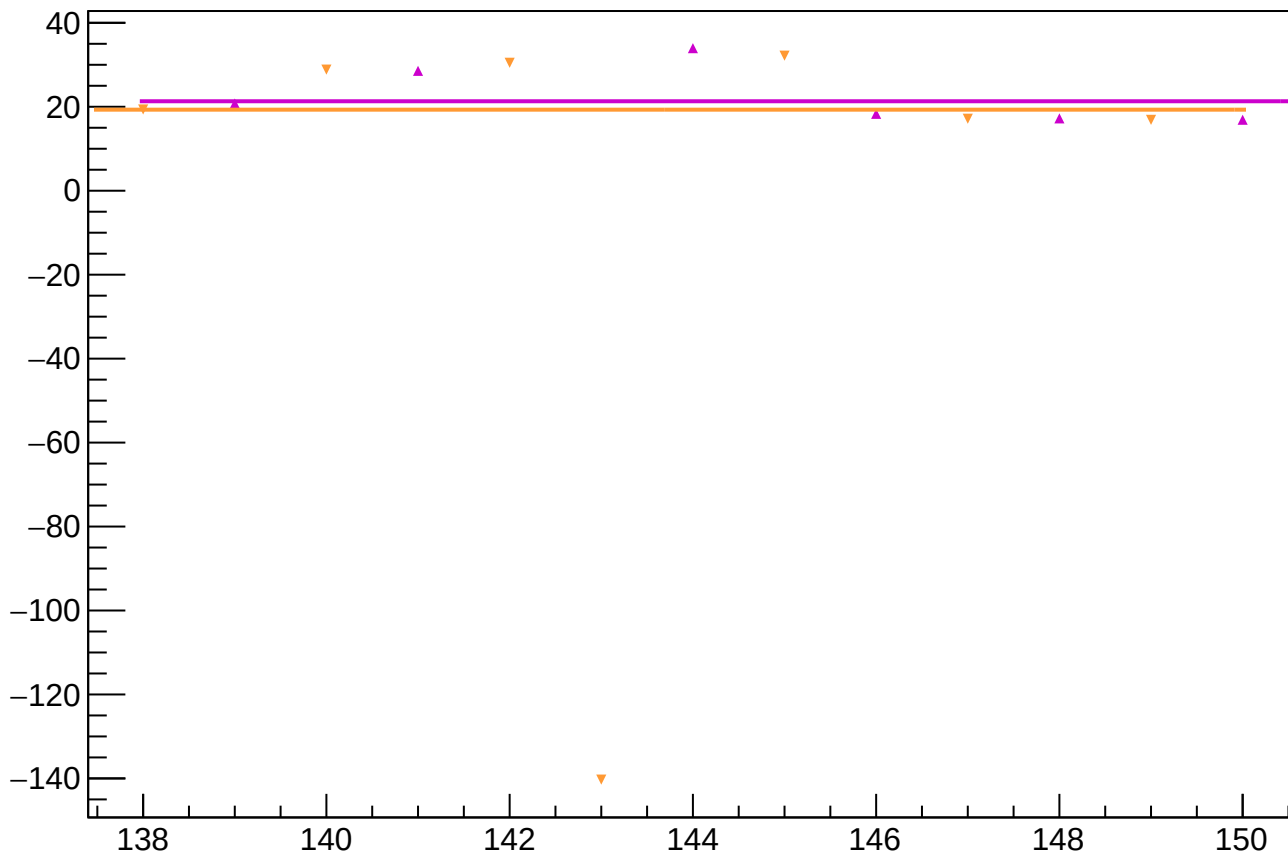
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.491+/-0.752  $\chi^2/\text{NDF}$ :33.4/5

Out: -10.012+/-0.807  $\chi^2/\text{NDF}$ :300.9/6

All: -11.339+/-0.550  $\chi^2/\text{NDF}$ : 339.3/12

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected

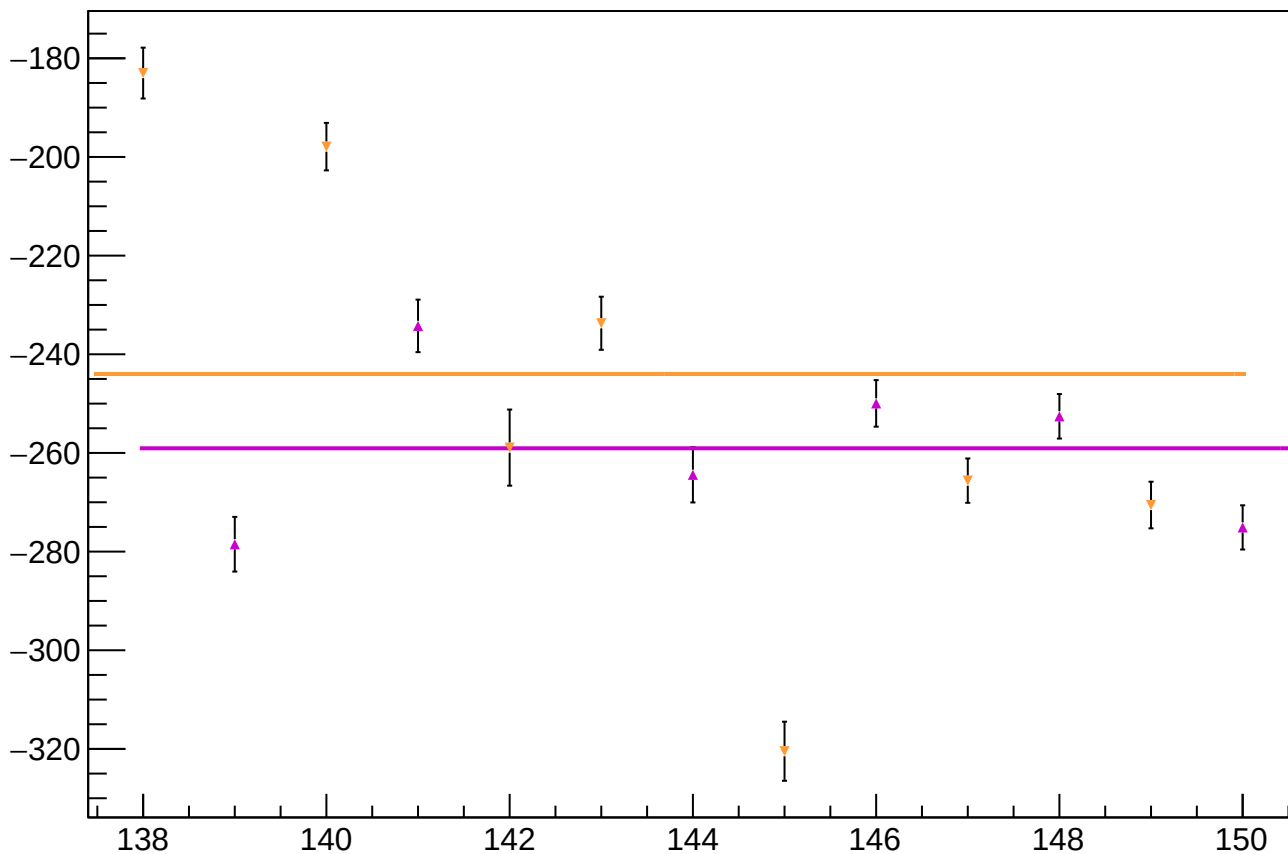


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 19.308+/-0.041  $\chi^2/\text{NDF}$ :347524.4/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 21.313+/-0.037  $\chi^2/\text{NDF}$ :22729.8/5

Left: 20.391+/-0.028  $\chi^2/\text{NDF}$ : 371569.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 21.313+/-0.037  $\chi^2/\text{NDF}$ :22729.8/5  
 Out: 19.308+/-0.041  $\chi^2/\text{NDF}$ :347524.4/6  
 All: 20.391+/-0.028  $\chi^2/\text{NDF}$ : 371569.5/12



reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -243.997+/-1.983  $\chi^2/\text{NDF}$ : 456.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -259.055+/-2.027  $\chi^2/\text{NDF}$ : 53.6/5

Left: -251.363+/-1.417  $\chi^2/\text{NDF}$ : 538.6/12

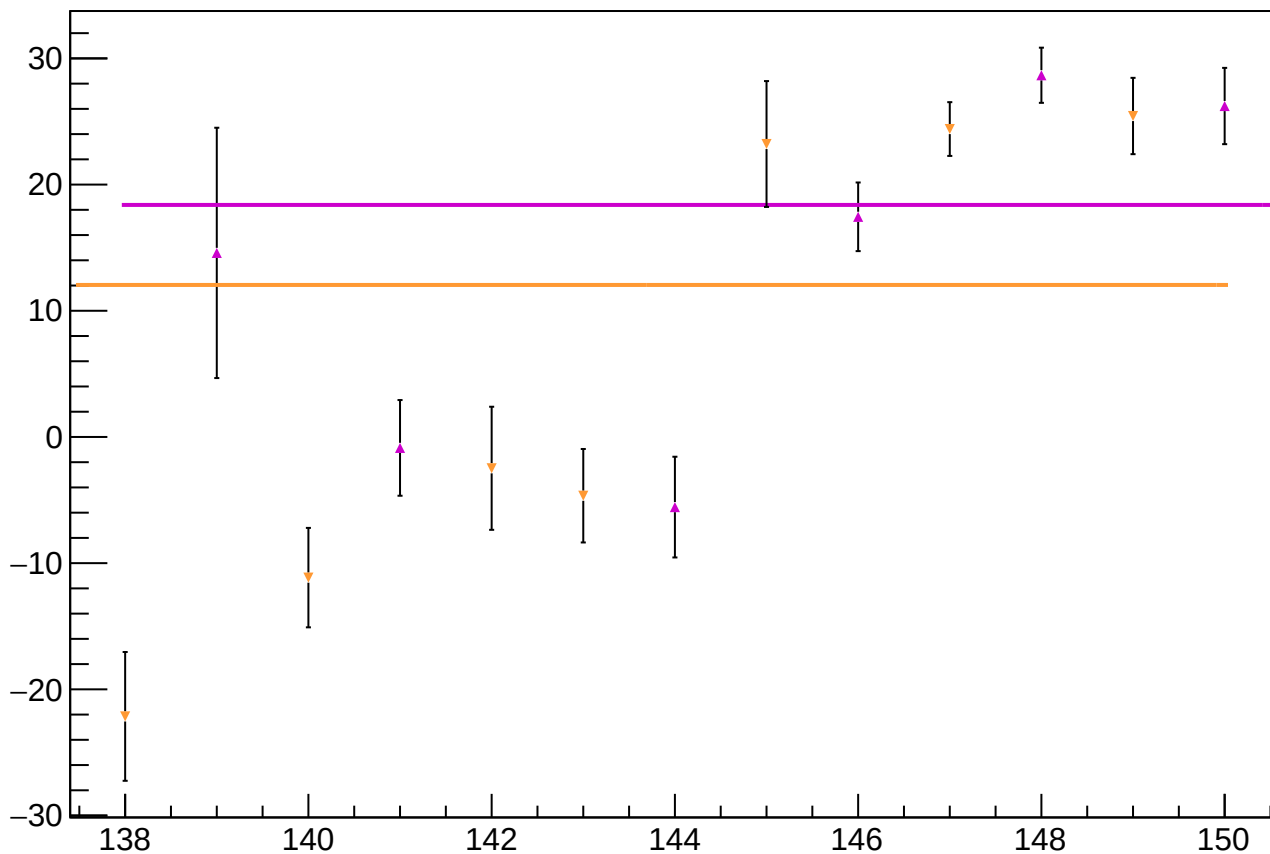
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -259.055+/-2.027  $\chi^2/\text{NDF}$ : 53.6/5

Out: -243.997+/-1.983  $\chi^2/\text{NDF}$ : 456.8/6

All: -251.363+/-1.417  $\chi^2/\text{NDF}$ : 538.6/12

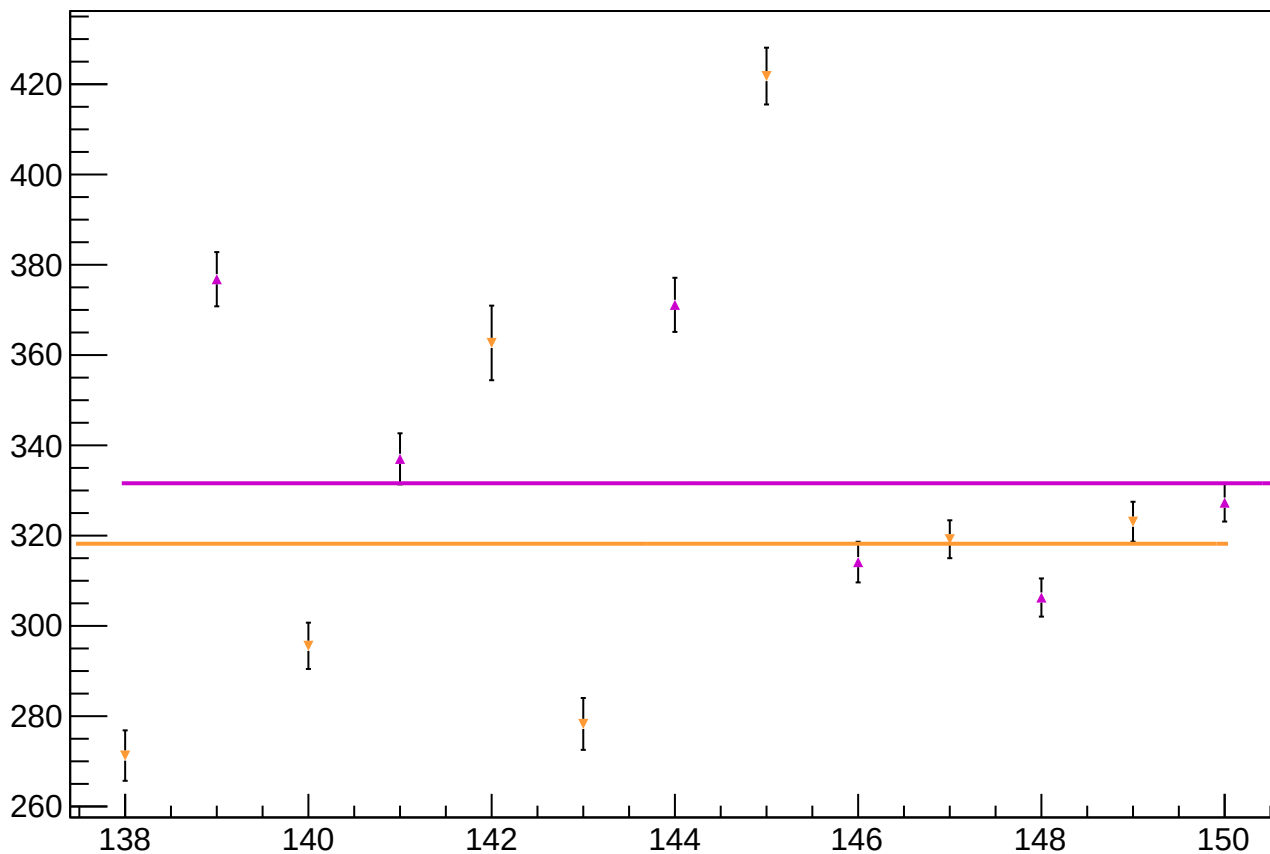
reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 12.047+/-1.305  $\chi^2/\text{NDF}$ :167.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 18.388+/-1.295  $\chi^2/\text{NDF}$ :90.9/5

Left: 15.241+/-0.919  $\chi^2/\text{NDF}$ : 269.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 18.388+/-1.295  $\chi^2/\text{NDF}$ :90.9/5  
 Out: 12.047+/-1.305  $\chi^2/\text{NDF}$ :167.0/6  
 All: 15.241+/-0.919  $\chi^2/\text{NDF}$ : 269.8/12

reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 318.205+/-2.007  $\chi^2/\text{NDF}$ :439.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 331.600+/-2.005  $\chi^2/\text{NDF}$ :152.9/5

Left: 324.910+/-1.418  $\chi^2/\text{NDF}$ : 614.8/12

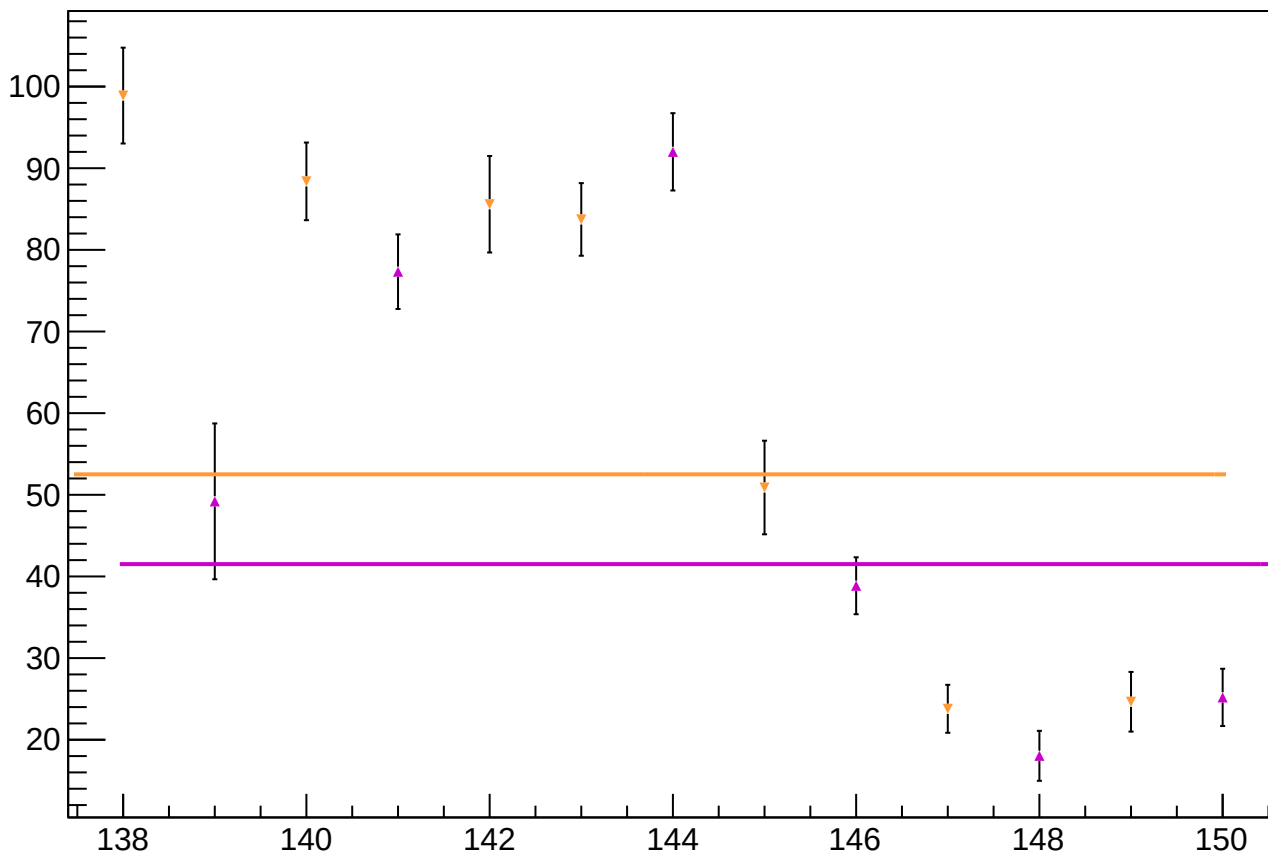
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 331.600+/-2.005  $\chi^2/\text{NDF}$ :152.9/5

Out: 318.205+/-2.007  $\chi^2/\text{NDF}$ :439.7/6

All: 324.910+/-1.418  $\chi^2/\text{NDF}$ : 614.8/12

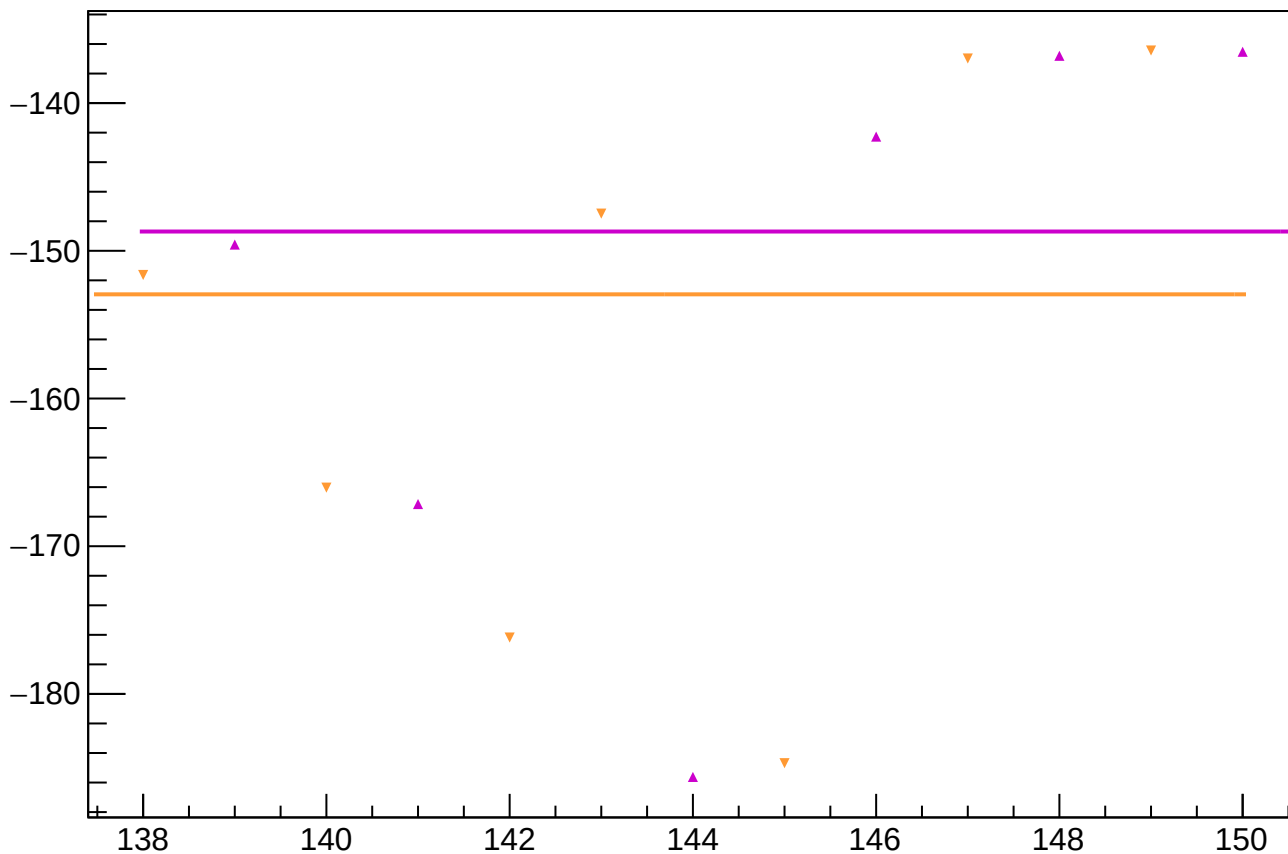
reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 52.507+/-1.636  $\chi^2/\text{NDF}$ :353.7/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 41.511+/-1.635  $\chi^2/\text{NDF}$ :257.0/5

Left: 47.007+/-1.157  $\chi^2/\text{NDF}$ : 633.3/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 41.511+/-1.635  $\chi^2/\text{NDF}$ :257.0/5  
 Out: 52.507+/-1.636  $\chi^2/\text{NDF}$ :353.7/6  
 All: 47.007+/-1.157  $\chi^2/\text{NDF}$ : 633.3/12

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -152.947+/-0.085  $\chi^2/\text{NDF}$ :39121.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -148.694+/-0.084  $\chi^2/\text{NDF}$ :36355.7/5

Left: -150.781+/-0.060  $\chi^2/\text{NDF}$ : 76738.5/12

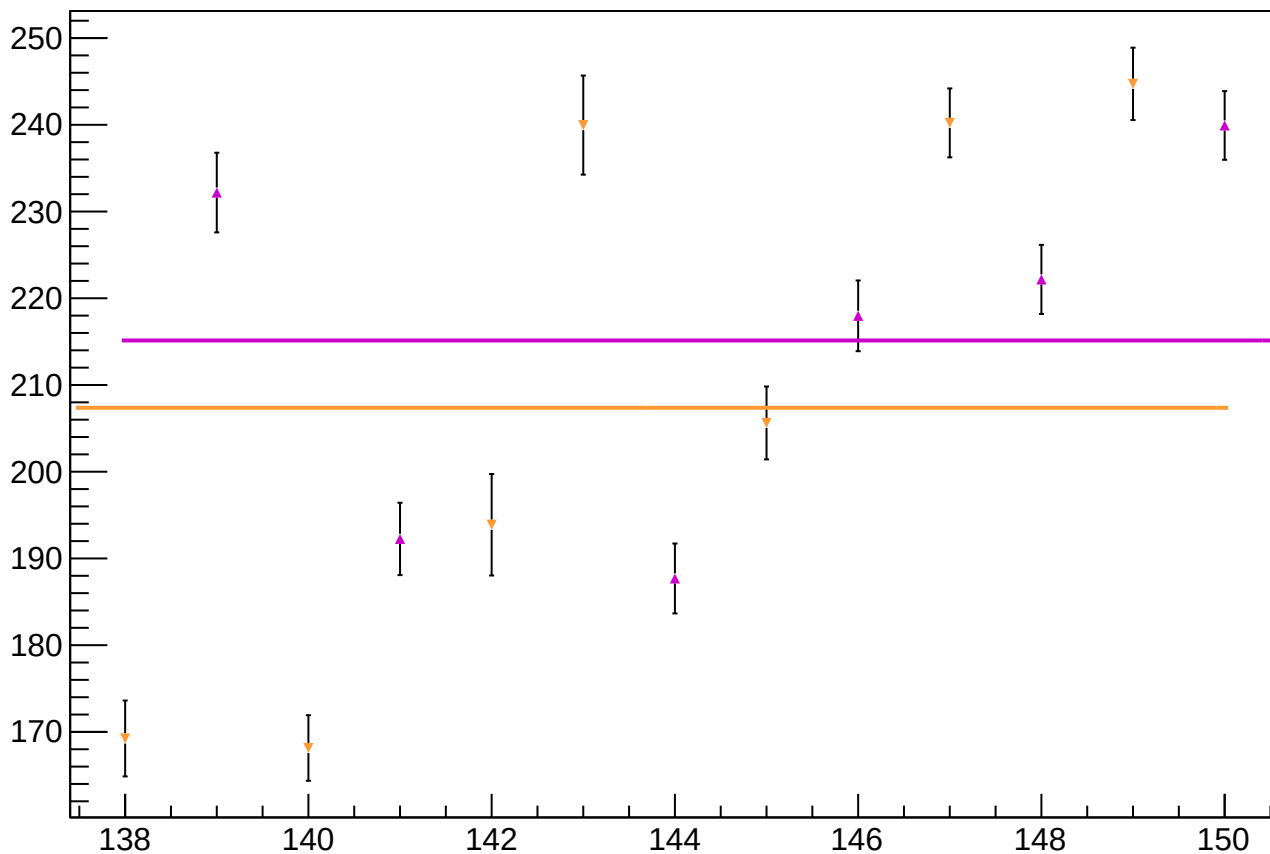
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -148.694+/-0.084  $\chi^2/\text{NDF}$ :36355.7/5

Out: -152.947+/-0.085  $\chi^2/\text{NDF}$ :39121.2/6

All: -150.781+/-0.060  $\chi^2/\text{NDF}$ : 76738.5/12

reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 207.374+/-1.668  $\chi^2/\text{NDF}$ :370.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 215.135+/-1.682  $\chi^2/\text{NDF}$ :133.1/5

Left: 211.222+/-1.184  $\chi^2/\text{NDF}$ : 513.9/12

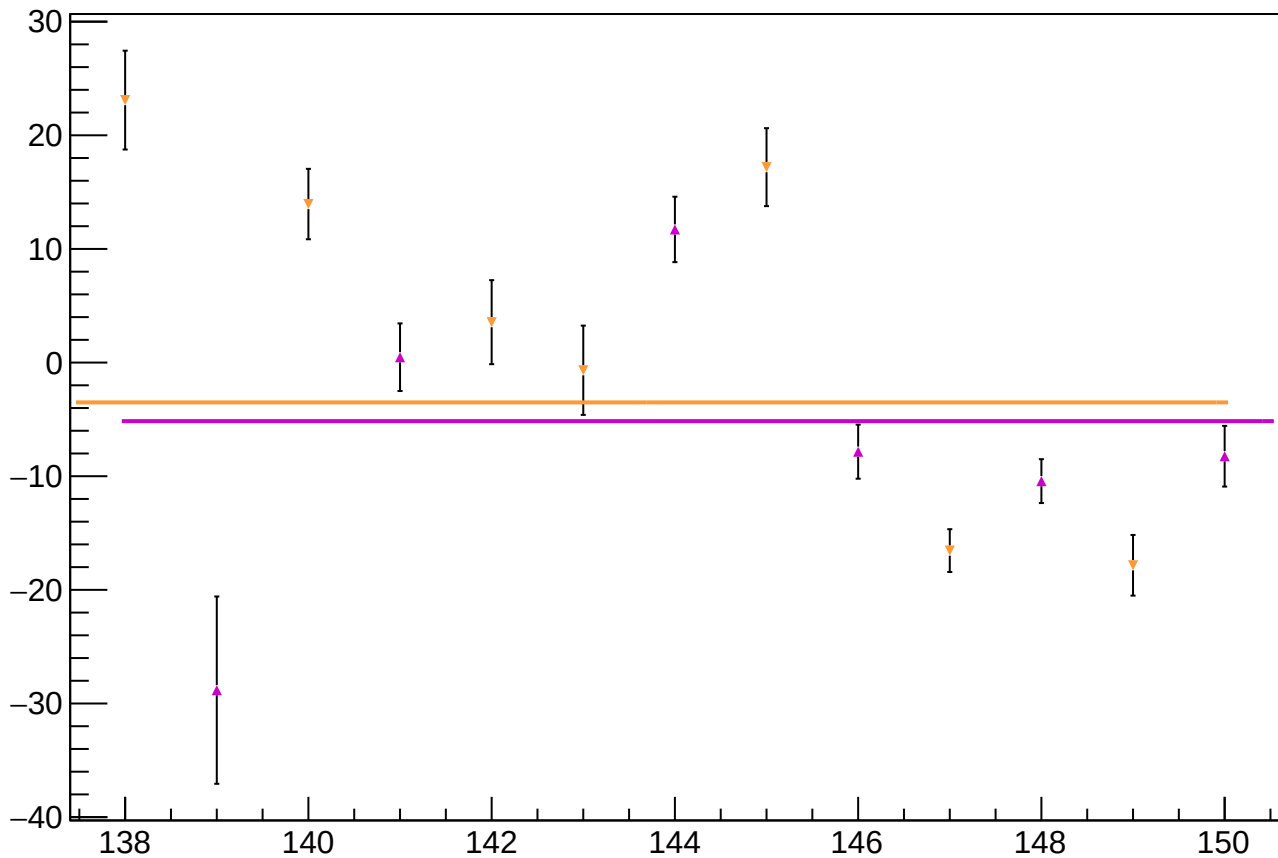
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 215.135+/-1.682  $\chi^2/\text{NDF}$ :133.1/5

Out: 207.374+/-1.668  $\chi^2/\text{NDF}$ :370.1/6

All: 211.222+/-1.184  $\chi^2/\text{NDF}$ : 513.9/12

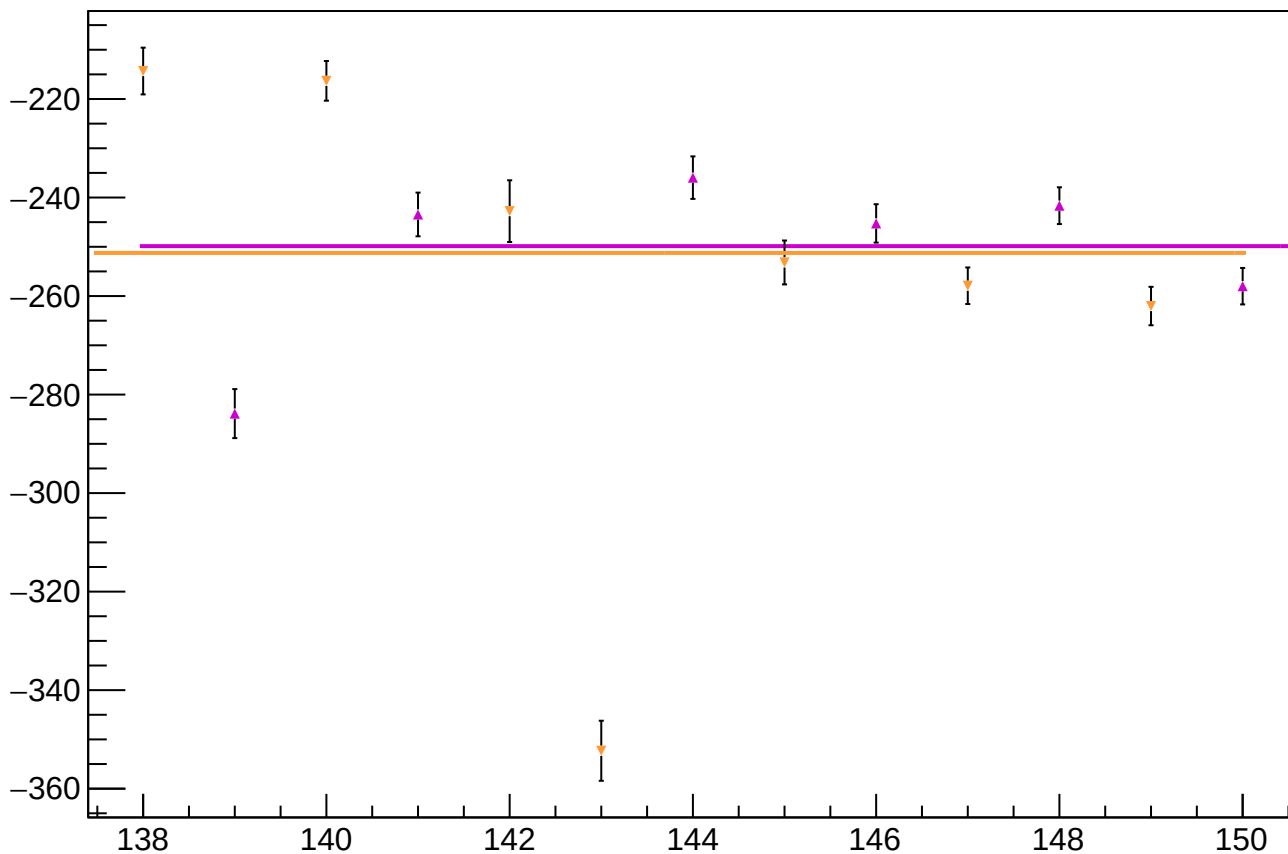
reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.503+/-1.117  $\chi^2/\text{NDF}$ :186.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.153+/-1.095  $\chi^2/\text{NDF}$ :56.3/5

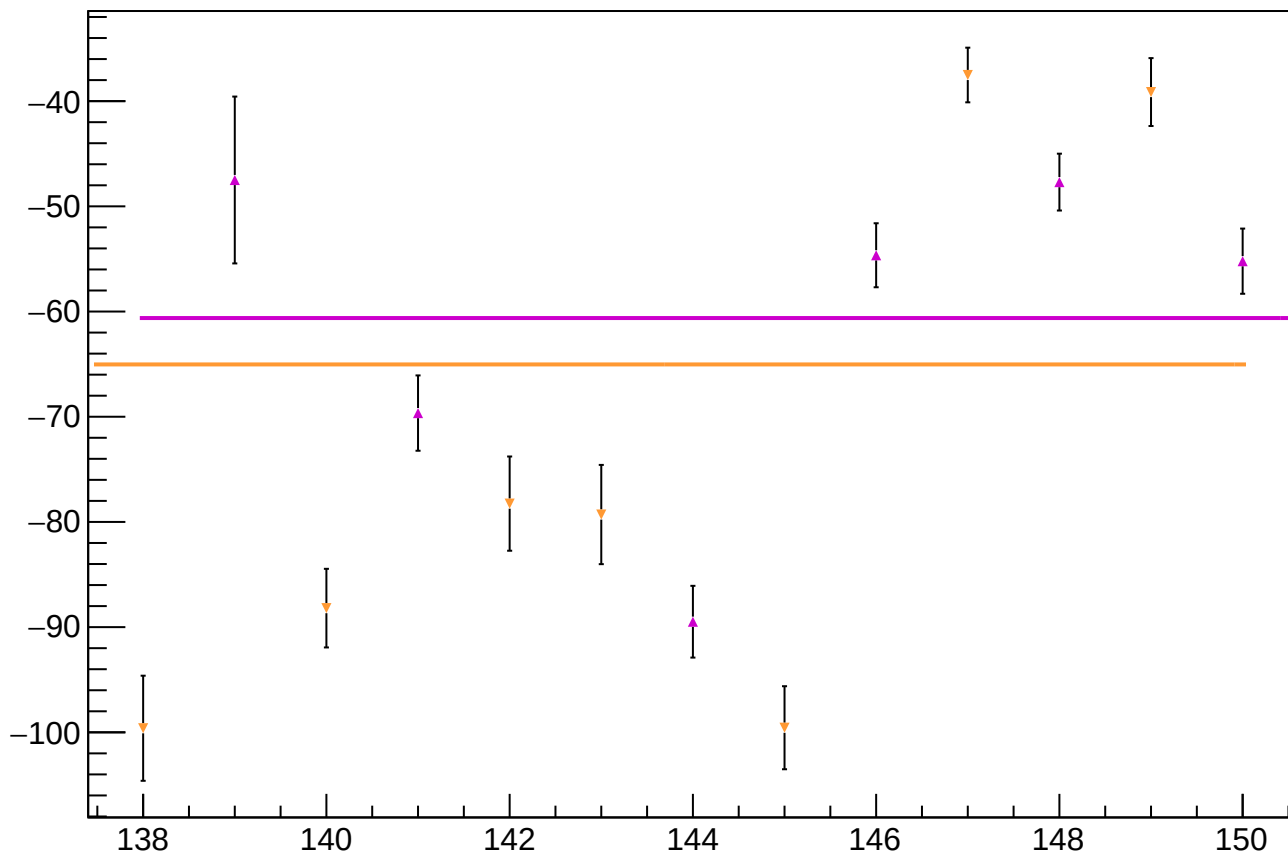
Left: -4.344+/-0.782  $\chi^2/\text{NDF}$ : 243.8/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.153+/-1.095  $\chi^2/\text{NDF}$ :56.3/5  
 Out: -3.503+/-1.117  $\chi^2/\text{NDF}$ :186.5/6  
 All: -4.344+/-0.782  $\chi^2/\text{NDF}$ : 243.8/12

reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected





reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -65.028+/-1.394  $\chi^2/\text{NDF}$ :357.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -60.618+/-1.375  $\chi^2/\text{NDF}$ :110.5/5

Left: -62.793+/-0.979  $\chi^2/\text{NDF}$ : 472.9/12

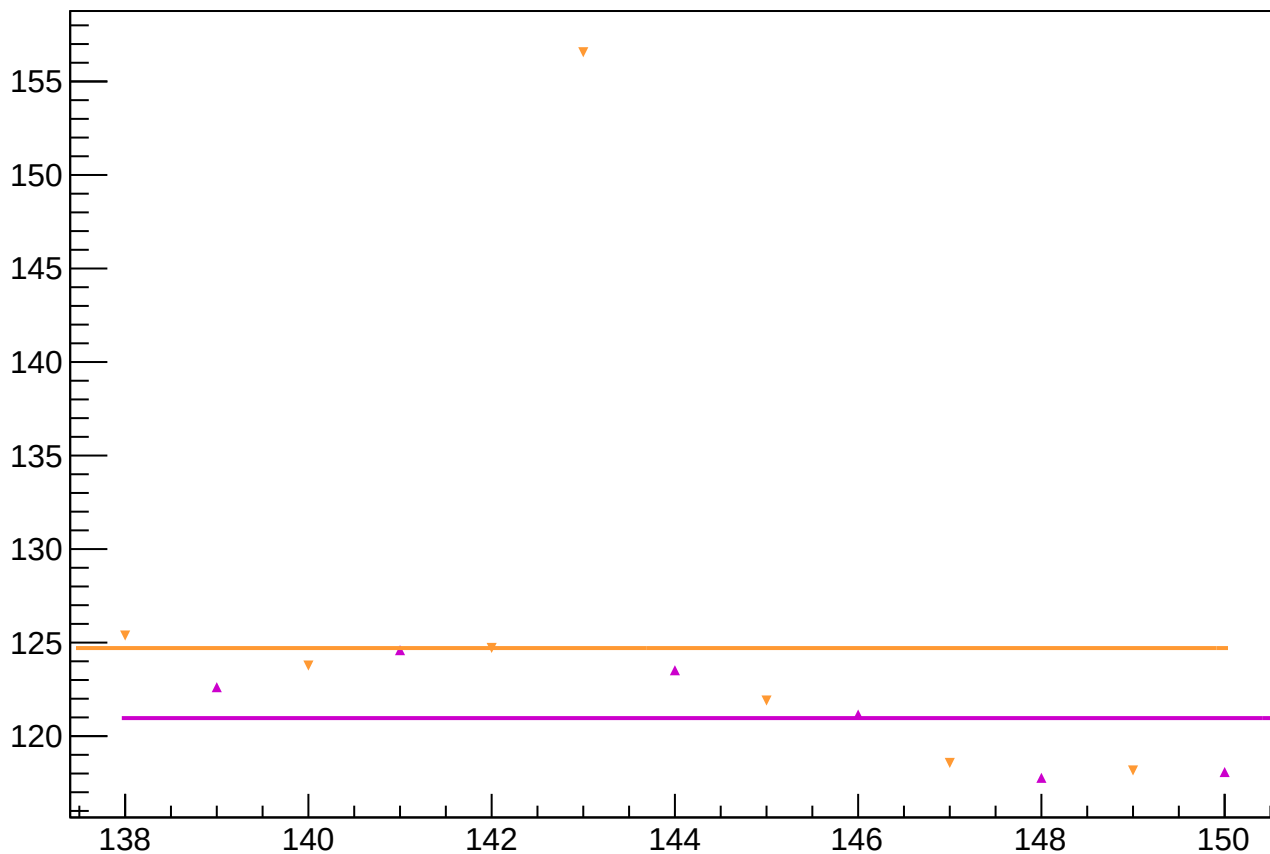
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -60.618+/-1.375  $\chi^2/\text{NDF}$ :110.5/5

Out: -65.028+/-1.394  $\chi^2/\text{NDF}$ :357.3/6

All: -62.793+/-0.979  $\chi^2/\text{NDF}$ : 472.9/12

reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 124.708+/-0.072  $\chi^2/\text{NDF}$ :19949.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 120.963+/-0.070  $\chi^2/\text{NDF}$ :1428.0/5

Left: 122.788+/-0.050  $\chi^2/\text{NDF}$ : 22766.3/12

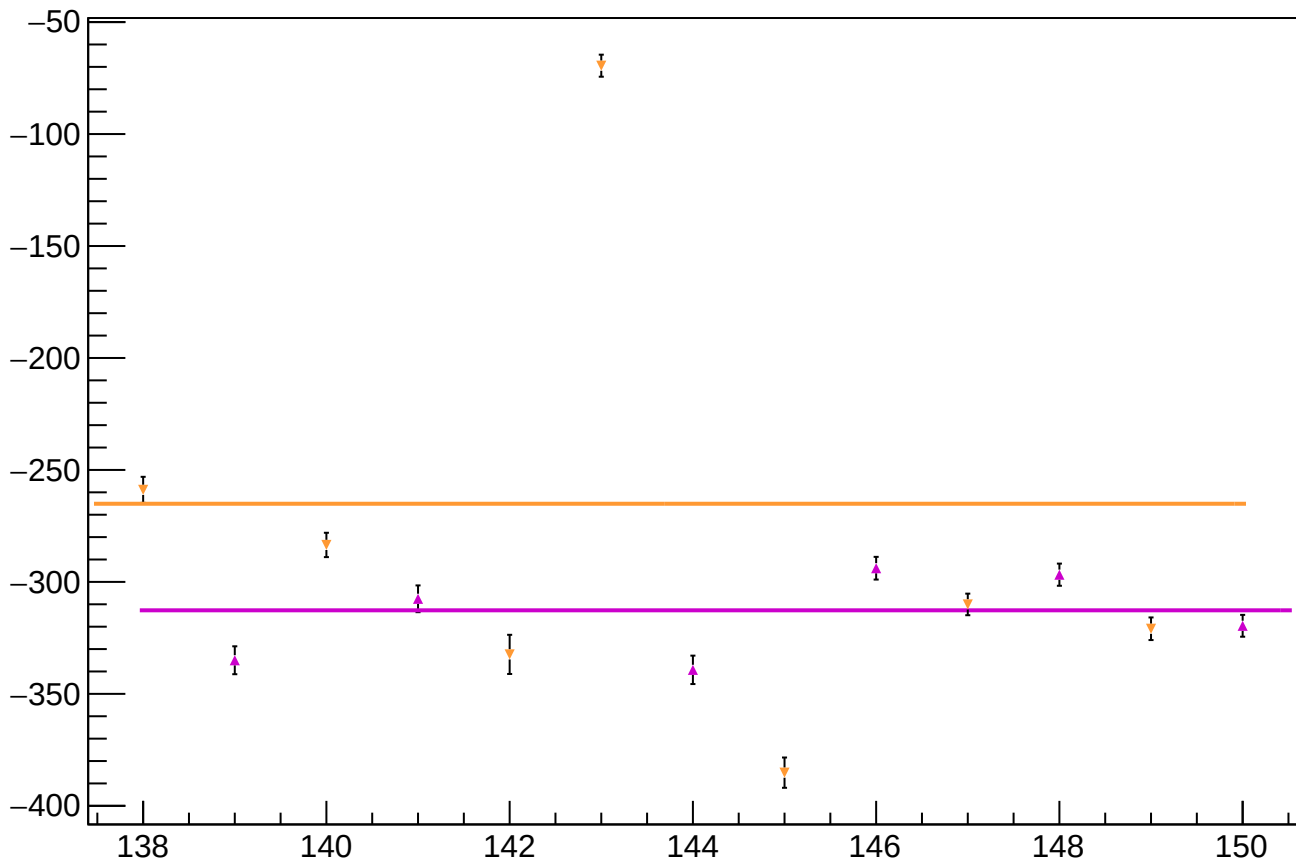
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 120.963+/-0.070  $\chi^2/\text{NDF}$ :1428.0/5

Out: 124.708+/-0.072  $\chi^2/\text{NDF}$ :19949.1/6

All: 122.788+/-0.050  $\chi^2/\text{NDF}$ : 22766.3/12

reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -265.101+/-2.123  $\chi^2/\text{NDF}$ :2174.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -312.690+/-2.234  $\chi^2/\text{NDF}$ :57.2/5

Left: -287.687+/-1.539  $\chi^2/\text{NDF}$ : 2470.6/12

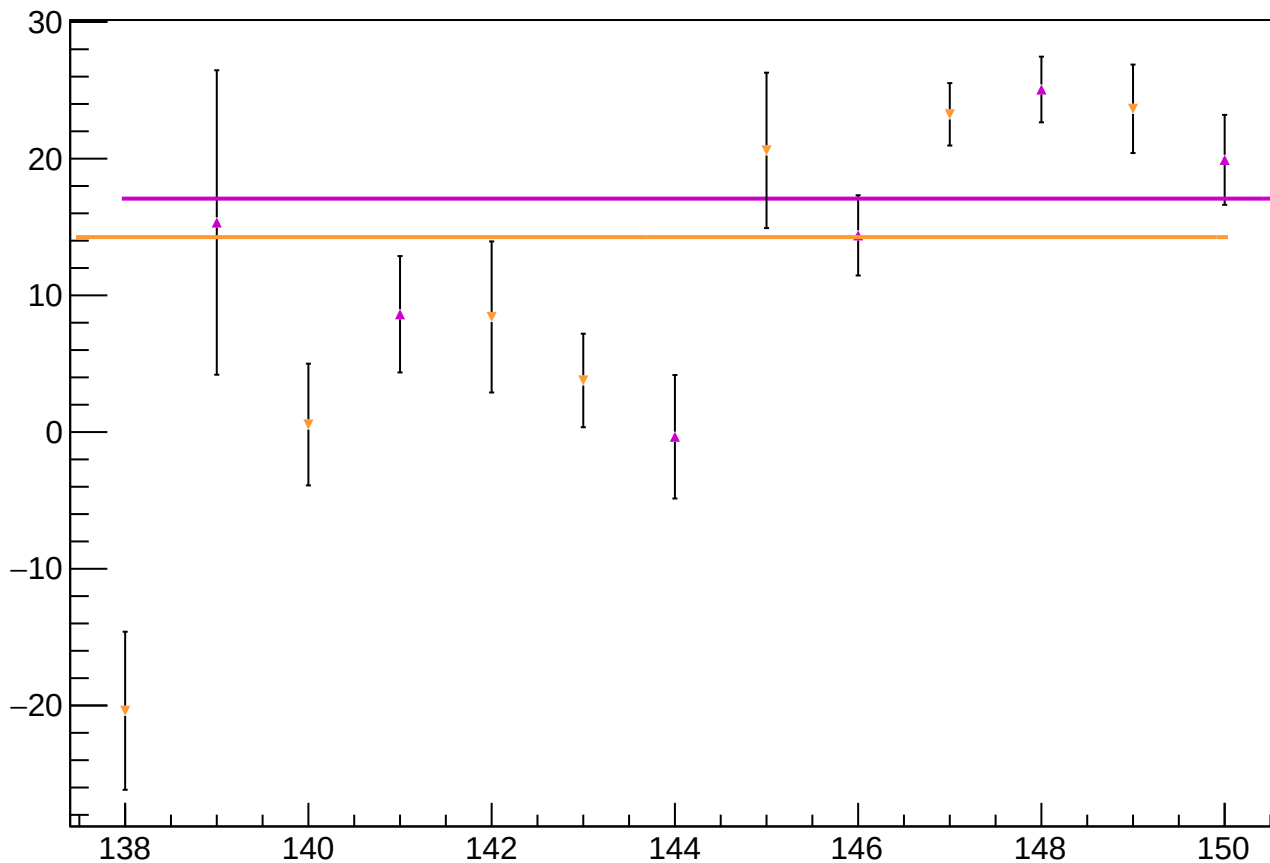
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -312.690+/-2.234  $\chi^2/\text{NDF}$ :57.2/5

Out: -265.101+/-2.123  $\chi^2/\text{NDF}$ :2174.9/6

All: -287.687+/-1.539  $\chi^2/\text{NDF}$ : 2470.6/12

reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.260+/-1.391  $\chi^2/\text{NDF}$ :81.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 17.075+/-1.422  $\chi^2/\text{NDF}$ :31.5/5

Left: 15.636+/-0.994  $\chi^2/\text{NDF}$ : 114.5/12

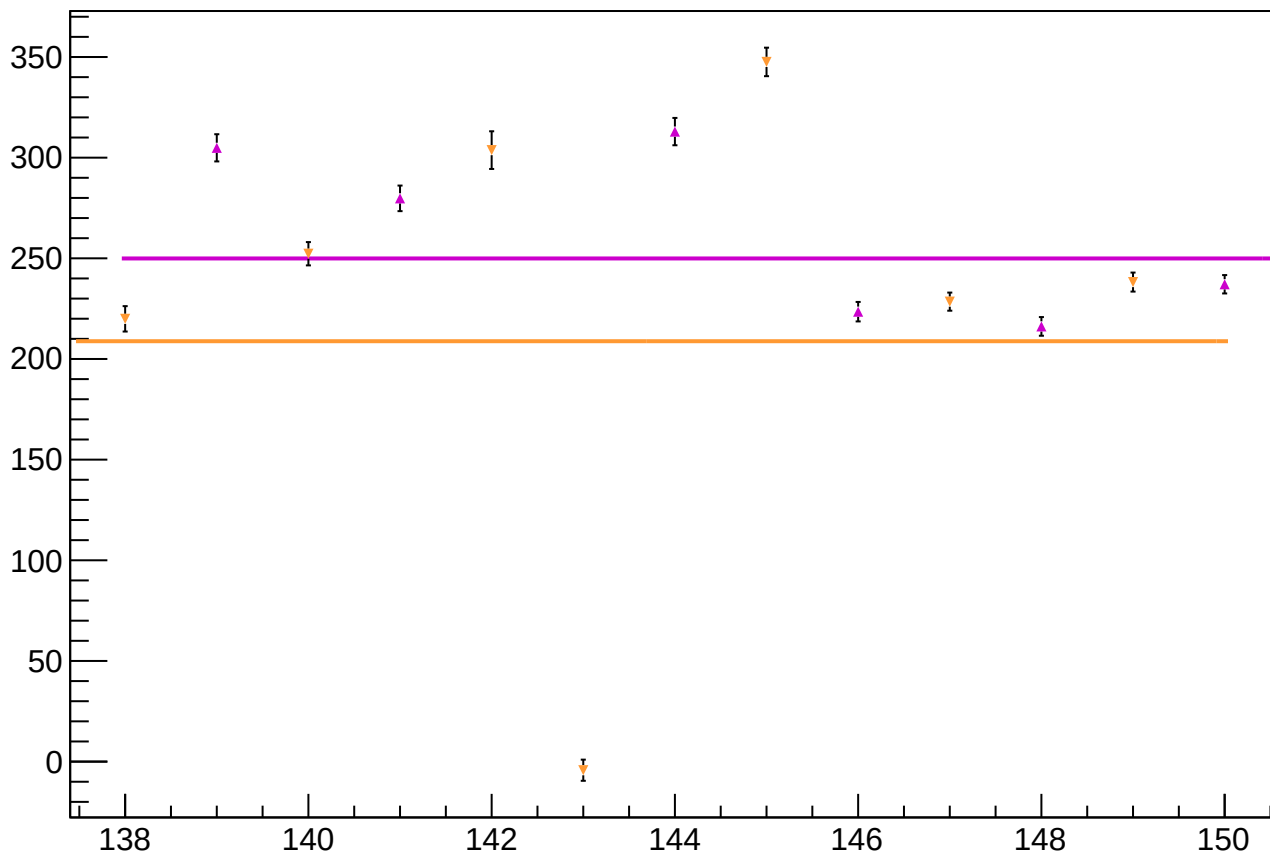
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 17.075+/-1.422  $\chi^2/\text{NDF}$ :31.5/5

Out: 14.260+/-1.391  $\chi^2/\text{NDF}$ :81.0/6

All: 15.636+/-0.994  $\chi^2/\text{NDF}$ : 114.5/12

reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 208.826+/-2.148  $\chi^2/\text{NDF}$ :2247.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 249.931+/-2.205  $\chi^2/\text{NDF}$ :265.2/5

Left: 228.835+/-1.539  $\chi^2/\text{NDF}$ : 2691.3/12

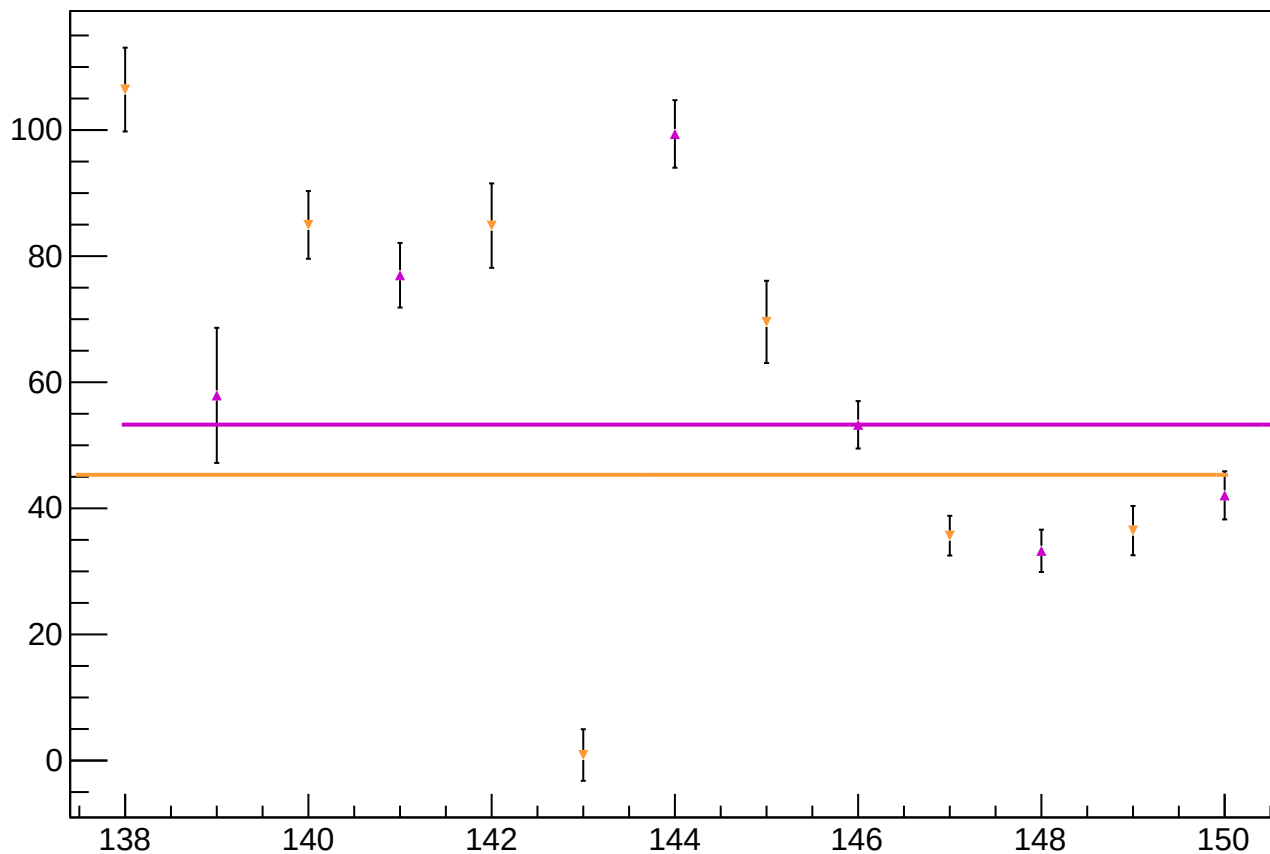
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 249.931+/-2.205  $\chi^2/\text{NDF}$ :265.2/5

Out: 208.826+/-2.148  $\chi^2/\text{NDF}$ :2247.8/6

All: 228.835+/-1.539  $\chi^2/\text{NDF}$ : 2691.3/12

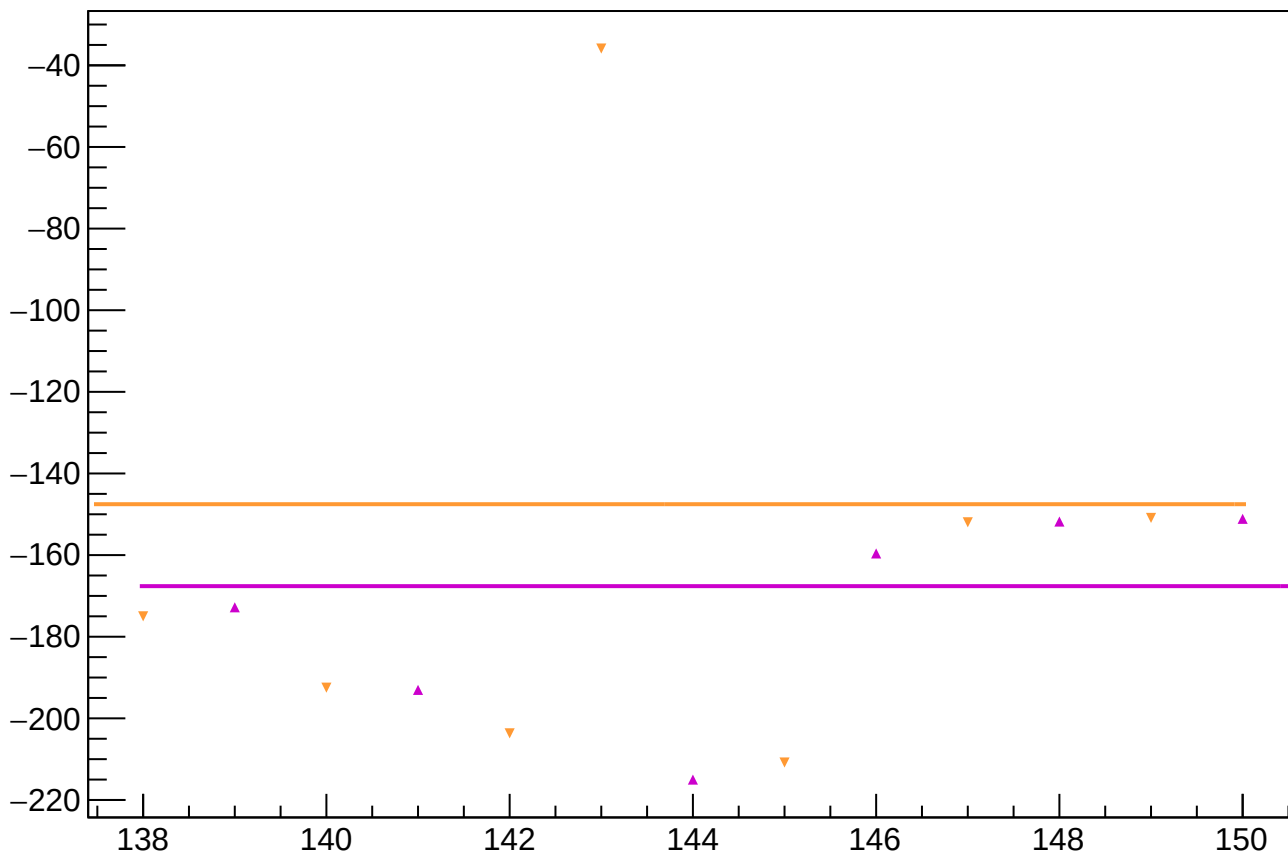
reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 45.317 $\pm$ 1.743  $\chi^2$ /NDF:320.2/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 53.279 $\pm$ 1.797  $\chi^2$ /NDF:139.8/5

Left: 49.176 $\pm$ 1.251  $\chi^2$ /NDF: 470.0/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 53.279 $\pm$ 1.797  $\chi^2$ /NDF:139.8/5  
 Out: 45.317 $\pm$ 1.743  $\chi^2$ /NDF:320.2/6  
 All: 49.176 $\pm$ 1.251  $\chi^2$ /NDF: 470.0/12

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -147.528+/-0.091  $\chi^2/\text{NDF}$ : 399295.1/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -167.607+/-0.092  $\chi^2/\text{NDF}$ : 50750.5/5

Left: -157.442+/-0.065  $\chi^2/\text{NDF}$ : 473933.3/12

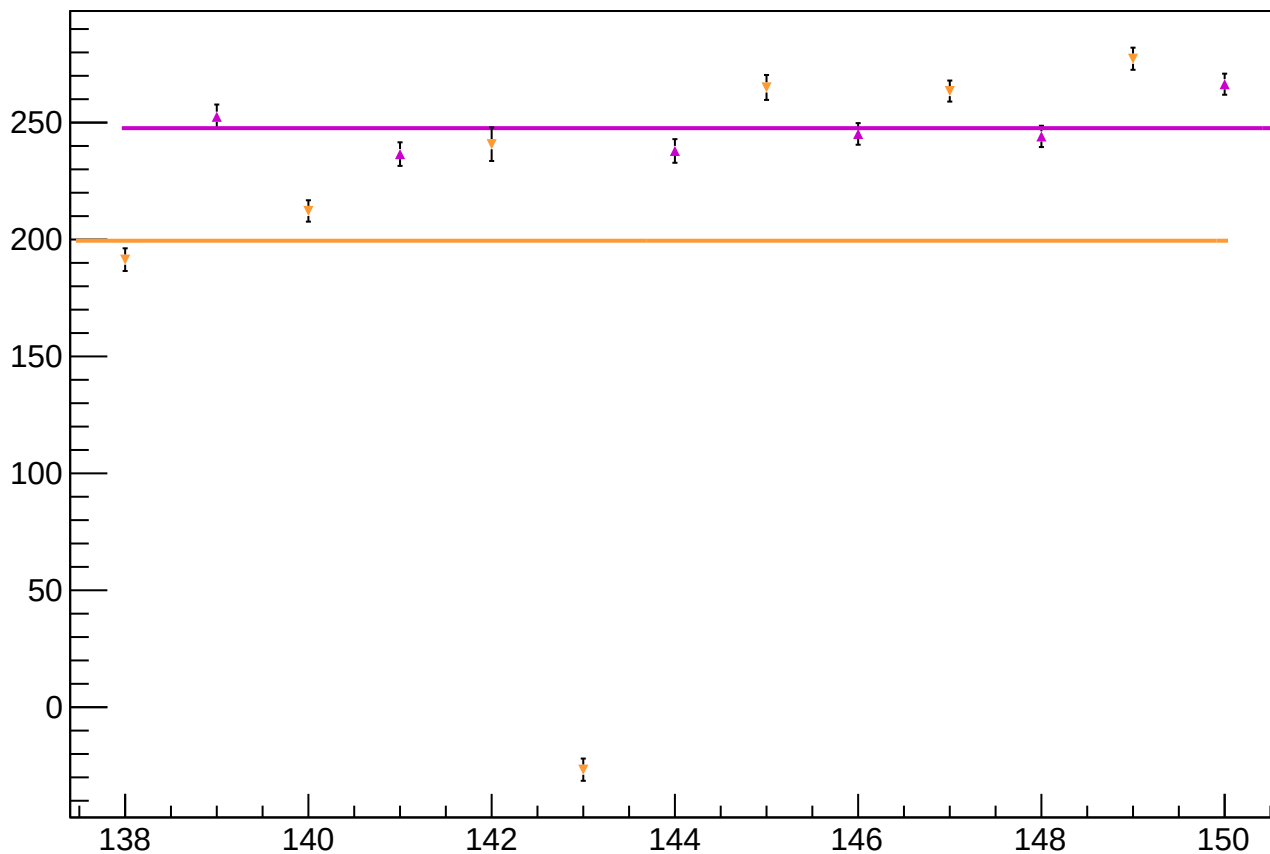
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -167.607+/-0.092  $\chi^2/\text{NDF}$ : 50750.5/5

Out: -147.528+/-0.091  $\chi^2/\text{NDF}$ : 399295.1/6

All: -157.442+/-0.065  $\chi^2/\text{NDF}$ : 473933.3/12

reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 199.481+/-1.879  $\chi^2/\text{NDF}$ :2930.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 247.617+/-1.964  $\chi^2/\text{NDF}$ :27.7/5

Left: 222.478+/-1.358  $\chi^2/\text{NDF}$ : 3272.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

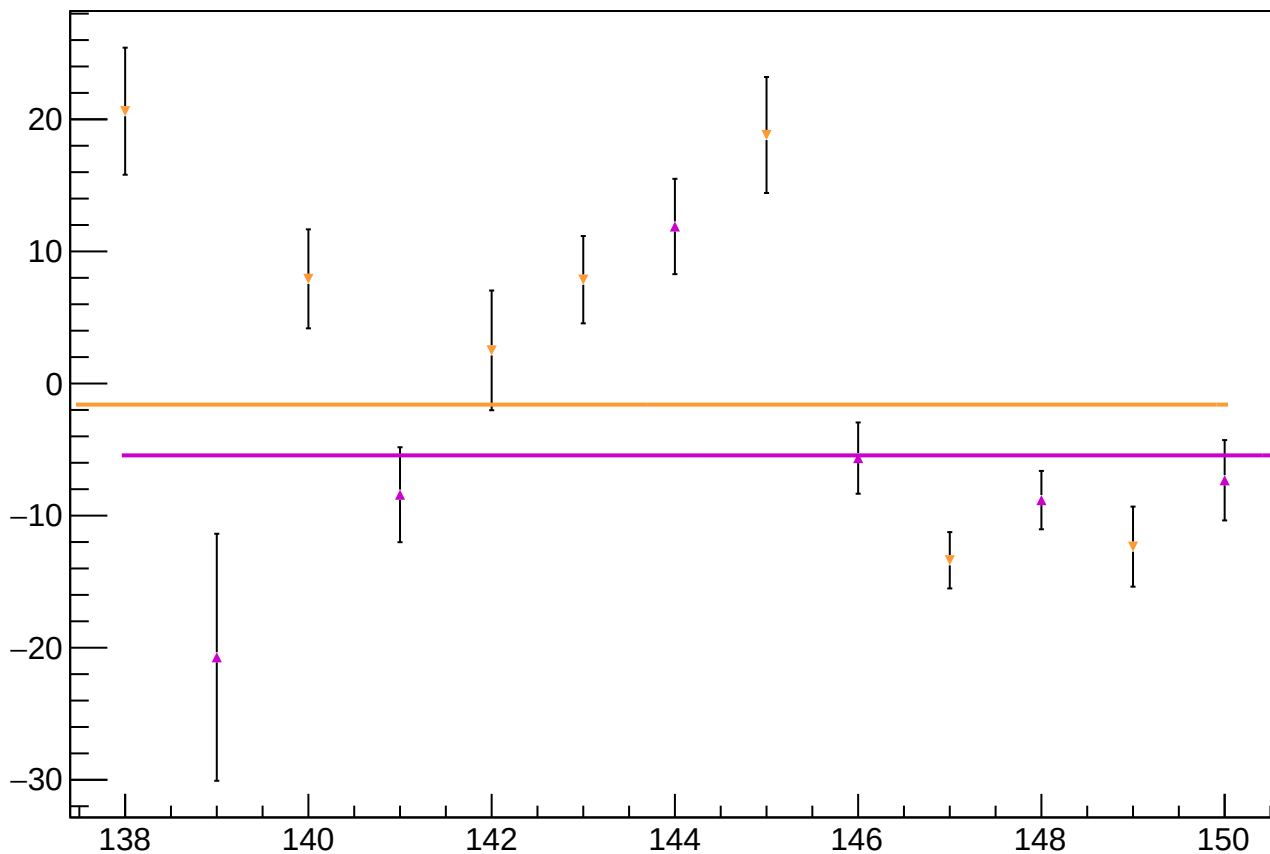
In: 247.617+/-1.964  $\chi^2/\text{NDF}$ :27.7/5

Out: 199.481+/-1.879  $\chi^2/\text{NDF}$ :2930.7/6

All: 222.478+/-1.358  $\chi^2/\text{NDF}$ : 3272.0/12



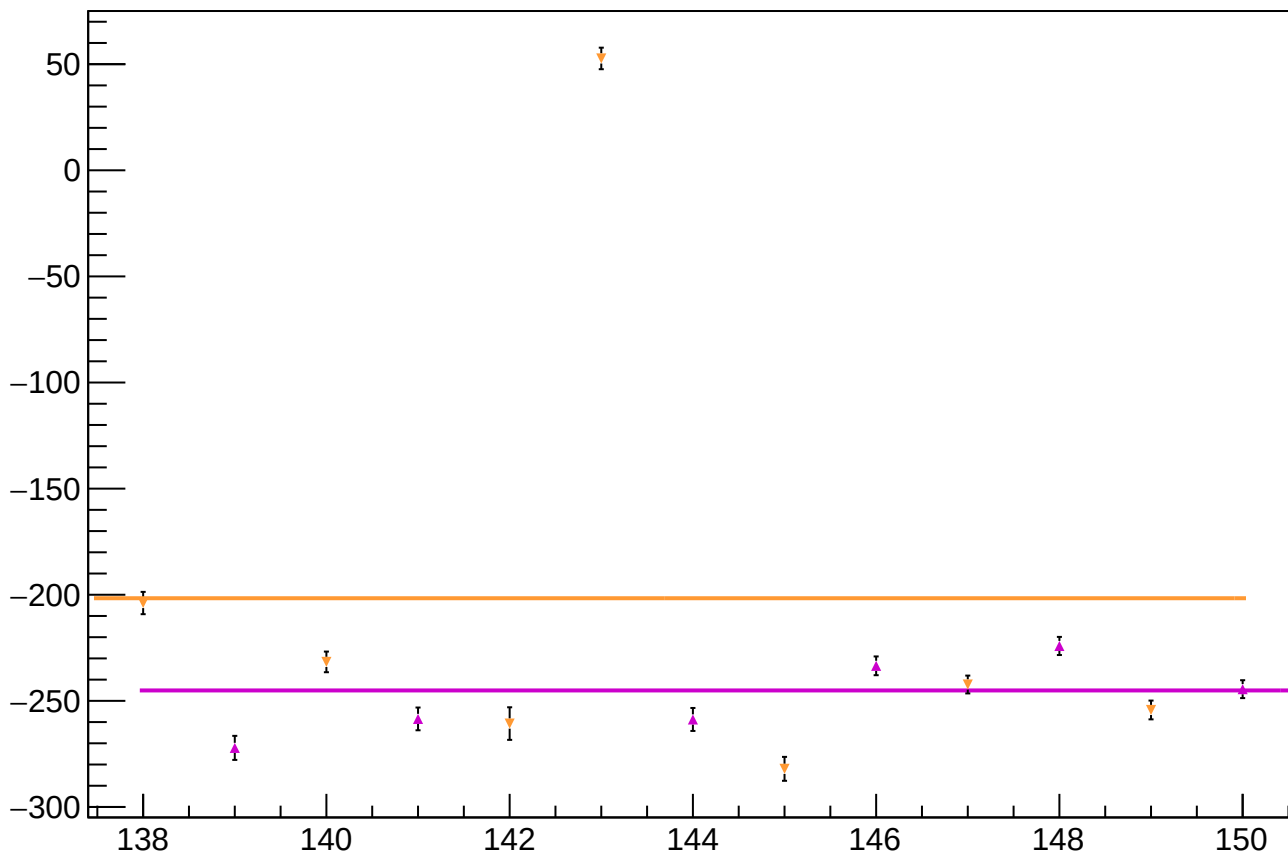
reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.597+/-1.255     $\chi^2/\text{NDF}$ :101.5/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.440+/-1.274     $\chi^2/\text{NDF}$ :29.2/5

Left: -3.489+/-0.894     $\chi^2/\text{NDF}$ : 135.3/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.440+/-1.274     $\chi^2/\text{NDF}$ :29.2/5  
 Out: -1.597+/-1.255     $\chi^2/\text{NDF}$ :101.5/6  
 All: -3.489+/-0.894     $\chi^2/\text{NDF}$ : 135.3/12

reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -201.645+/-1.912  $\chi^2/\text{NDF}$ :3047.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -245.090+/-1.952  $\chi^2/\text{NDF}$ :66.5/5

Left: -222.918+/-1.366  $\chi^2/\text{NDF}$ : 3366.7/12

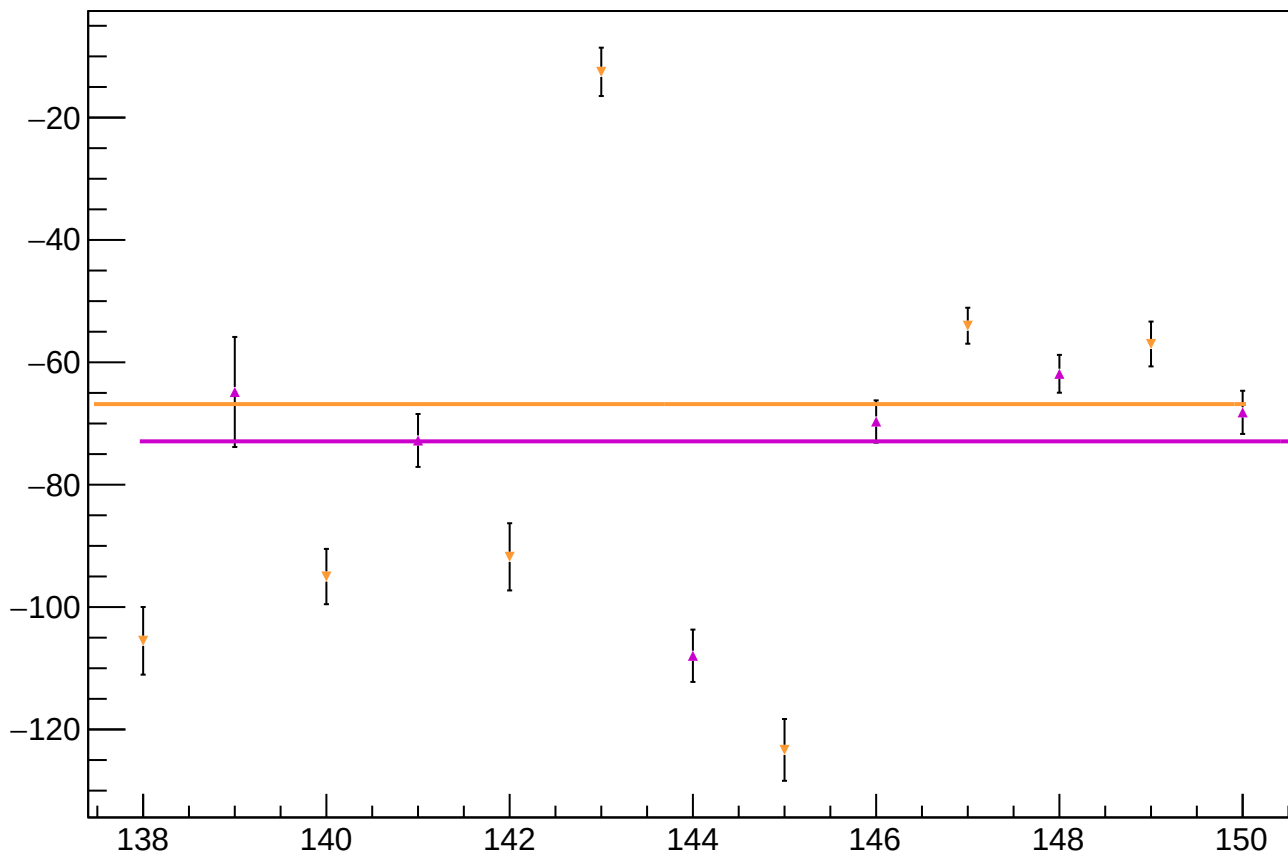
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -245.090+/-1.952  $\chi^2/\text{NDF}$ :66.5/5

Out: -201.645+/-1.912  $\chi^2/\text{NDF}$ :3047.5/6

All: -222.918+/-1.366  $\chi^2/\text{NDF}$ : 3366.7/12

reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -66.829+/-1.565  $\chi^2/\text{NDF}$ : 448.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -72.915+/-1.602  $\chi^2/\text{NDF}$ : 83.4/5

Left: -69.800+/-1.120  $\chi^2/\text{NDF}$ : 539.6/12

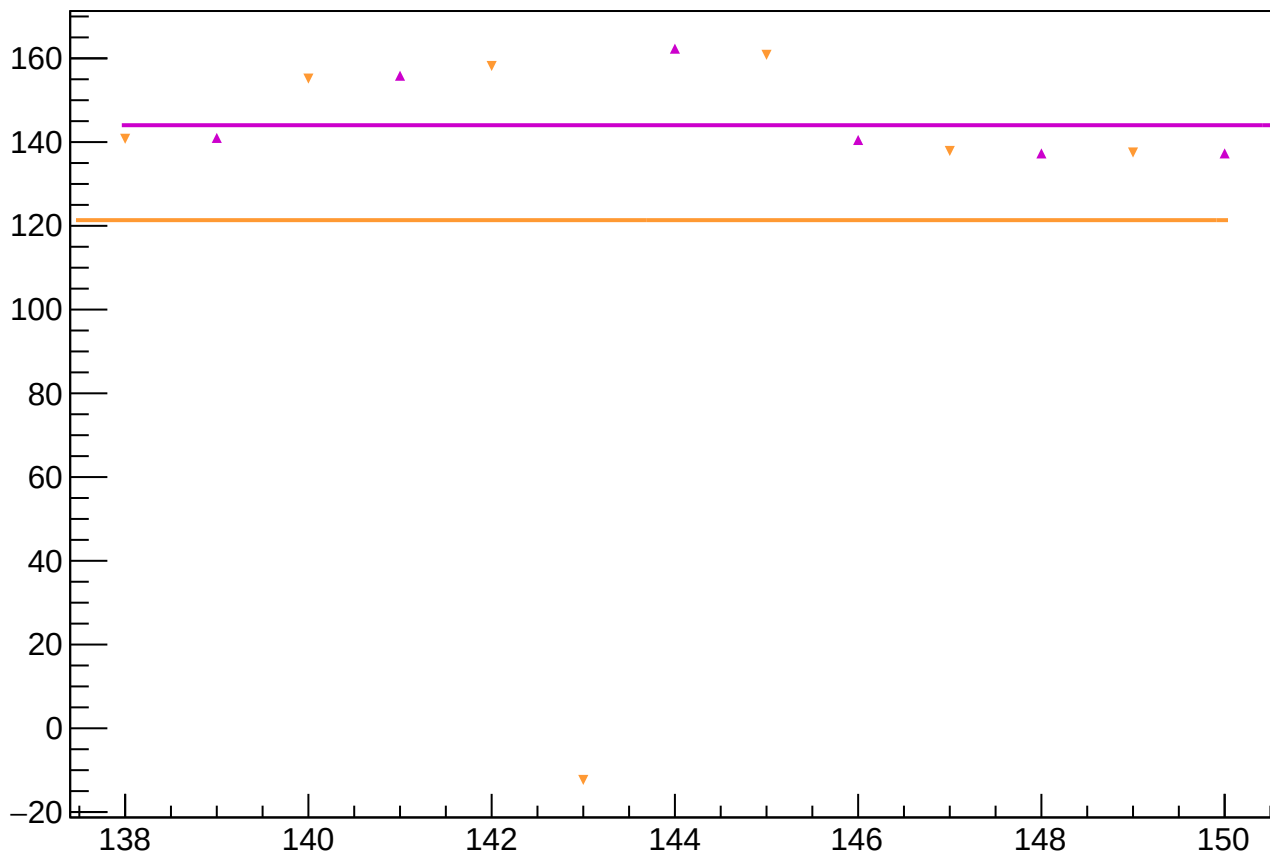
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -72.915+/-1.602  $\chi^2/\text{NDF}$ : 83.4/5

Out: -66.829+/-1.565  $\chi^2/\text{NDF}$ : 448.8/6

All: -69.800+/-1.120  $\chi^2/\text{NDF}$ : 539.6/12

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 121.356+/-0.081  $\chi^2/\text{NDF}$ :527224.9/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 144.030+/-0.082  $\chi^2/\text{NDF}$ :12290.0/5

Left: 132.605+/-0.057  $\chi^2/\text{NDF}$ : 578476.1/12

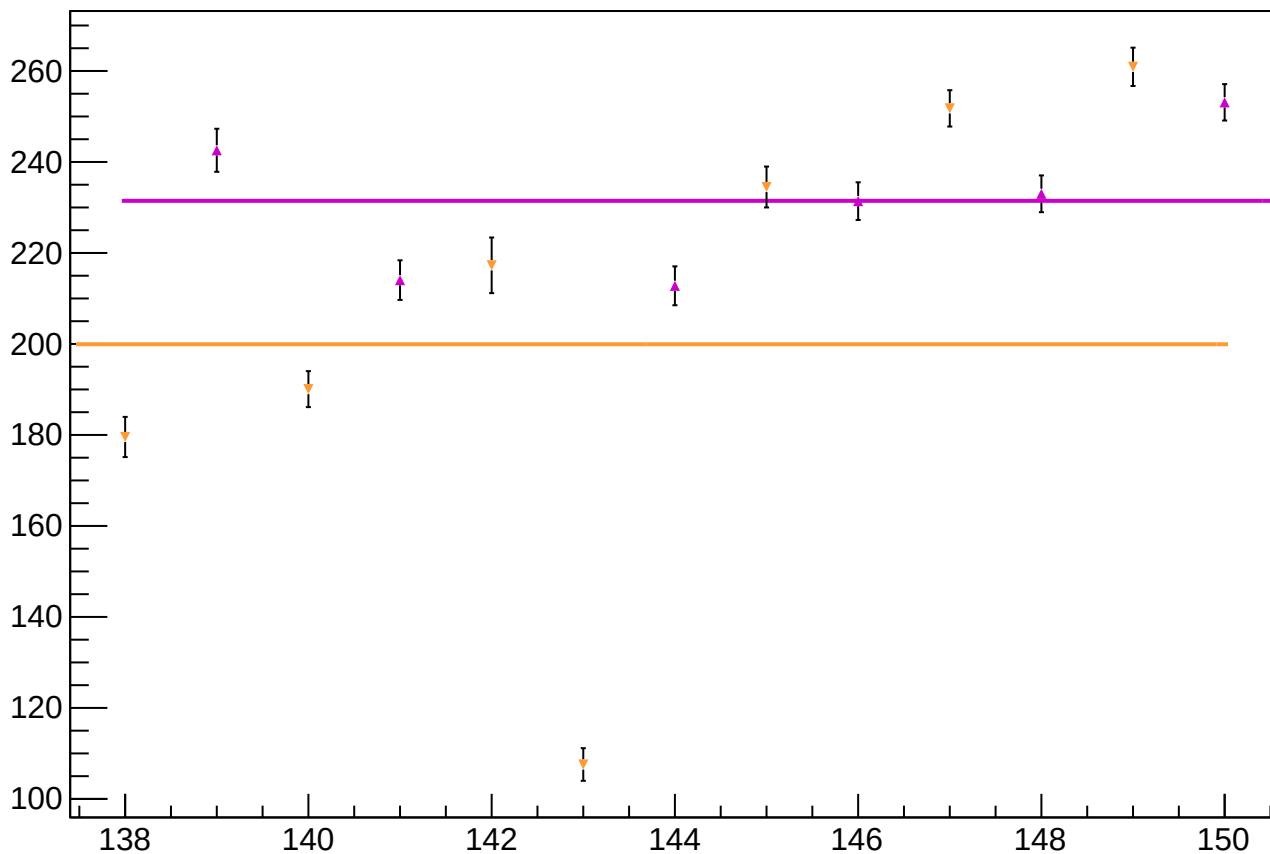
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 144.030+/-0.082  $\chi^2/\text{NDF}$ :12290.0/5

Out: 121.356+/-0.081  $\chi^2/\text{NDF}$ :527224.9/6

All: 132.605+/-0.057  $\chi^2/\text{NDF}$ : 578476.1/12

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 199.934+/-1.605  $\chi^2/\text{NDF}$ :1136.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 231.459+/-1.730  $\chi^2/\text{NDF}$ :70.0/5

Left: 214.516+/-1.176  $\chi^2/\text{NDF}$ : 1385.3/12

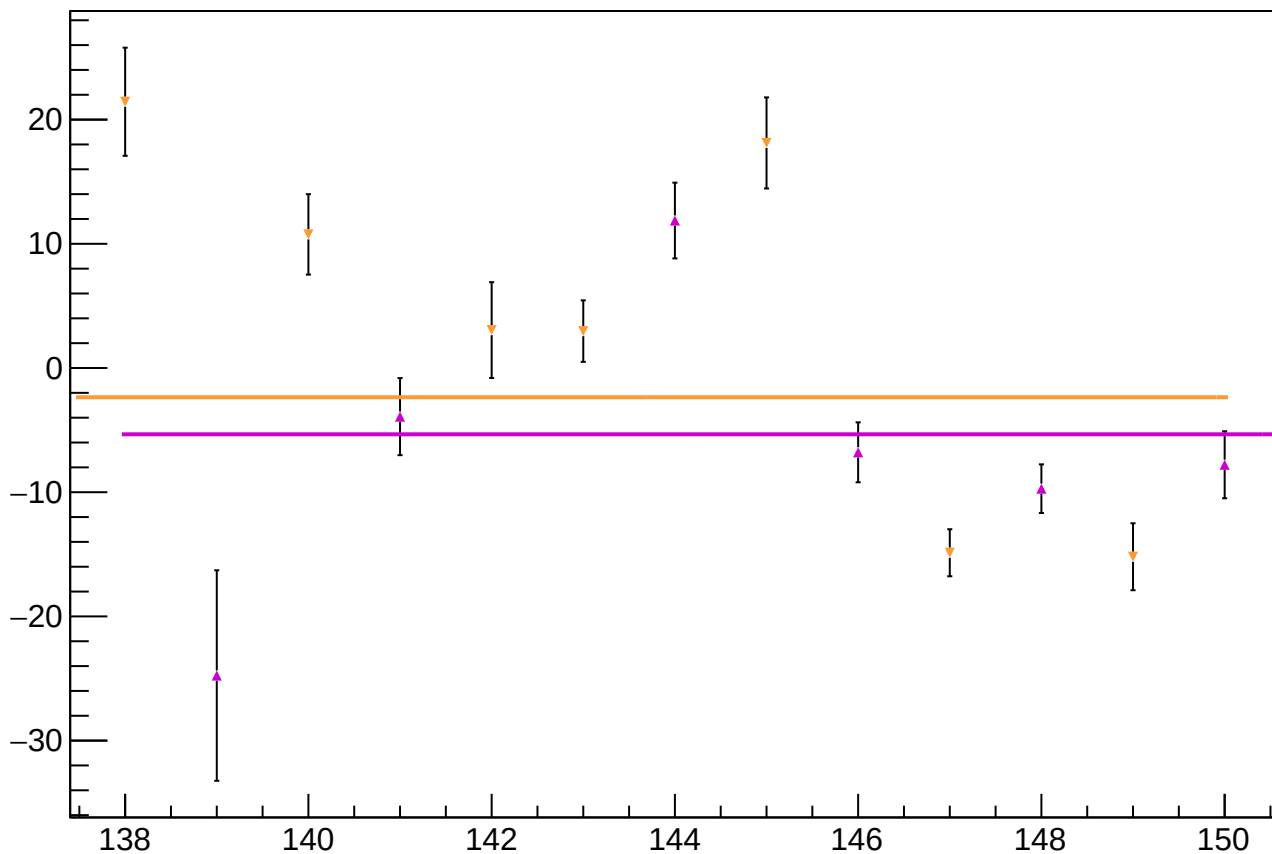
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 231.459+/-1.730  $\chi^2/\text{NDF}$ :70.0/5

Out: 199.934+/-1.605  $\chi^2/\text{NDF}$ :1136.7/6

All: 214.516+/-1.176  $\chi^2/\text{NDF}$ : 1385.3/12

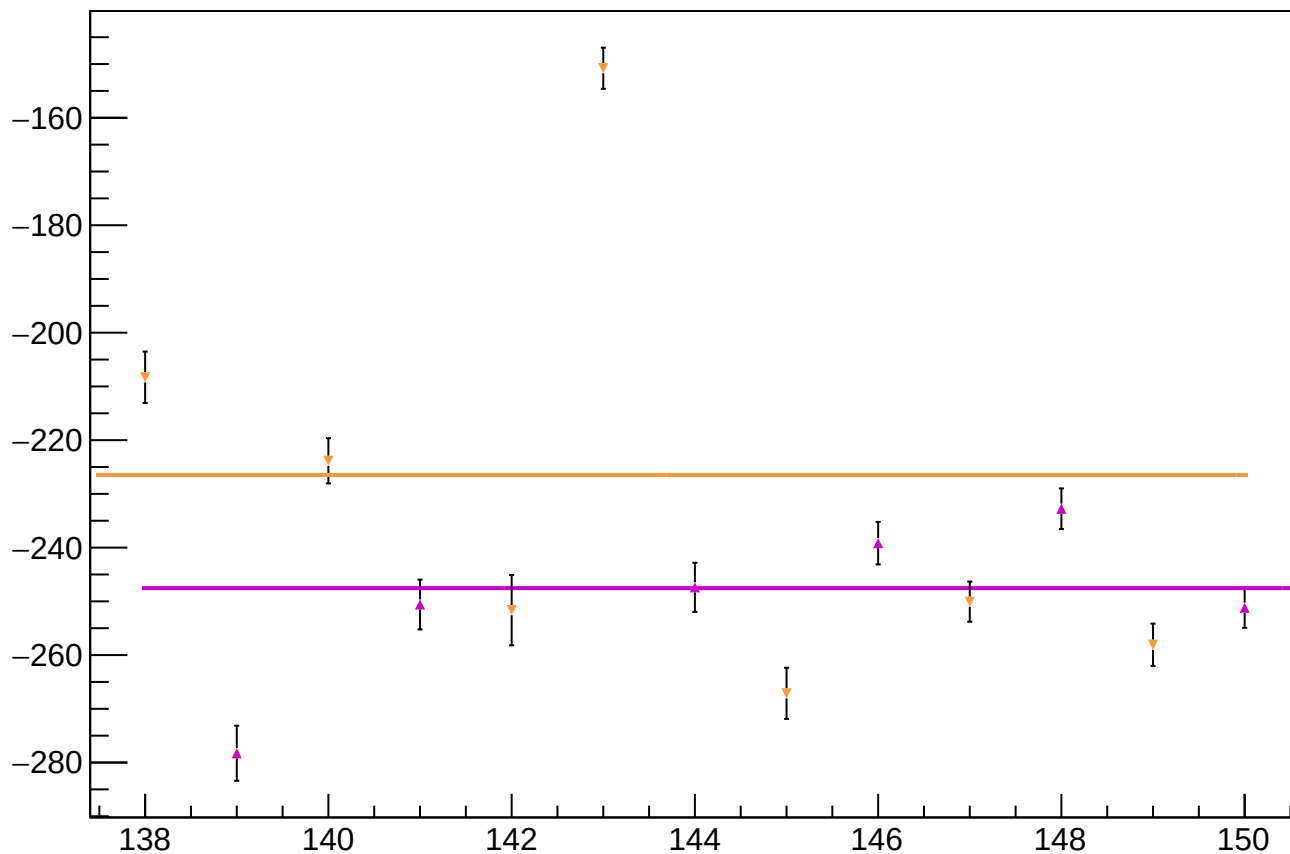
reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.353+/-1.073  $\chi^2/\text{NDF}$ :150.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.338+/-1.121  $\chi^2/\text{NDF}$ :43.5/5

Left: -3.779+/-0.775  $\chi^2/\text{NDF}$ : 197.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.338+/-1.121  $\chi^2/\text{NDF}$ :43.5/5  
 Out: -2.353+/-1.073  $\chi^2/\text{NDF}$ :150.5/6  
 All: -3.779+/-0.775  $\chi^2/\text{NDF}$ : 197.7/12

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -226.485+/-1.639  $\chi^2/\text{NDF}$ : 598.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -247.536+/-1.721  $\chi^2/\text{NDF}$ : 57.0/5

Left: -236.497+/-1.187  $\chi^2/\text{NDF}$ : 733.7/12

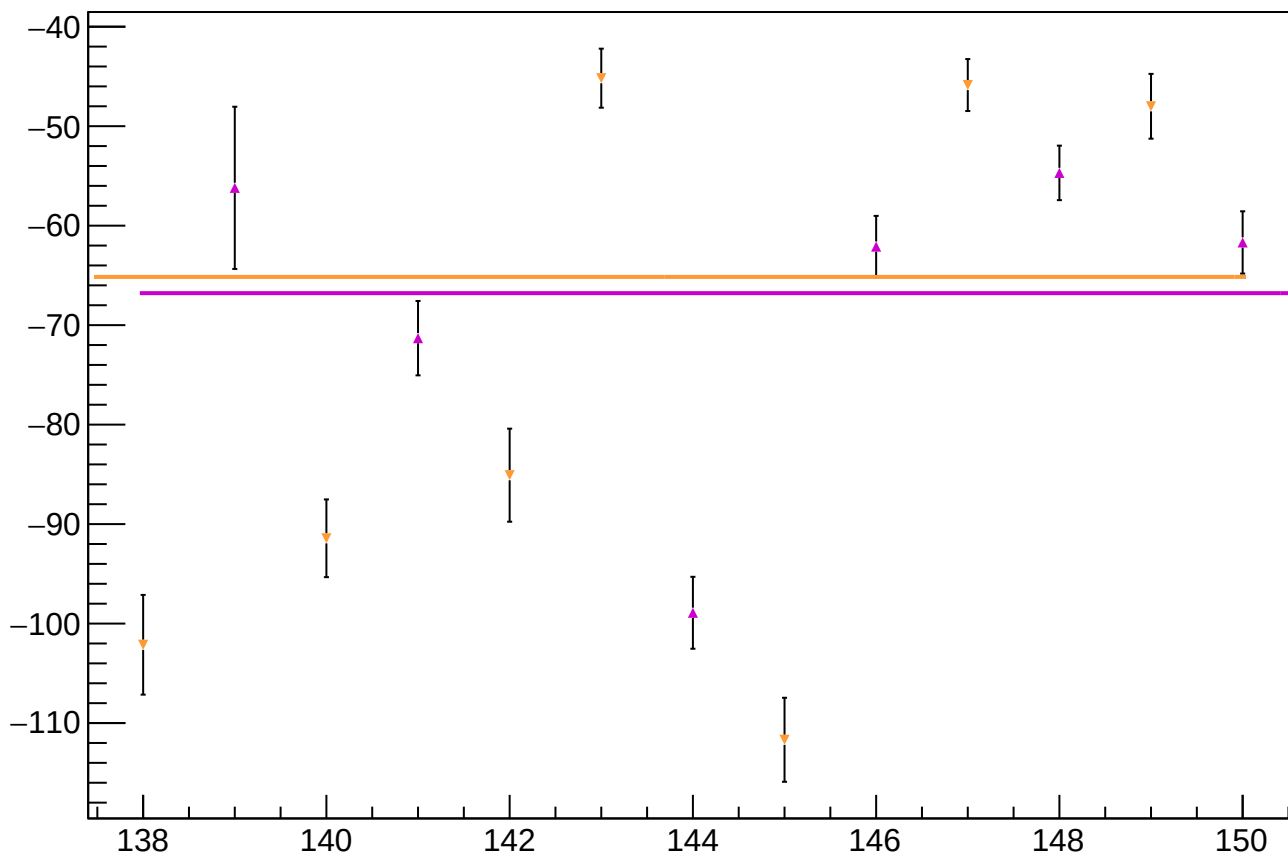
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -247.536+/-1.721  $\chi^2/\text{NDF}$ : 57.0/5

Out: -226.485+/-1.639  $\chi^2/\text{NDF}$ : 598.2/6

All: -236.497+/-1.187  $\chi^2/\text{NDF}$ : 733.7/12

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

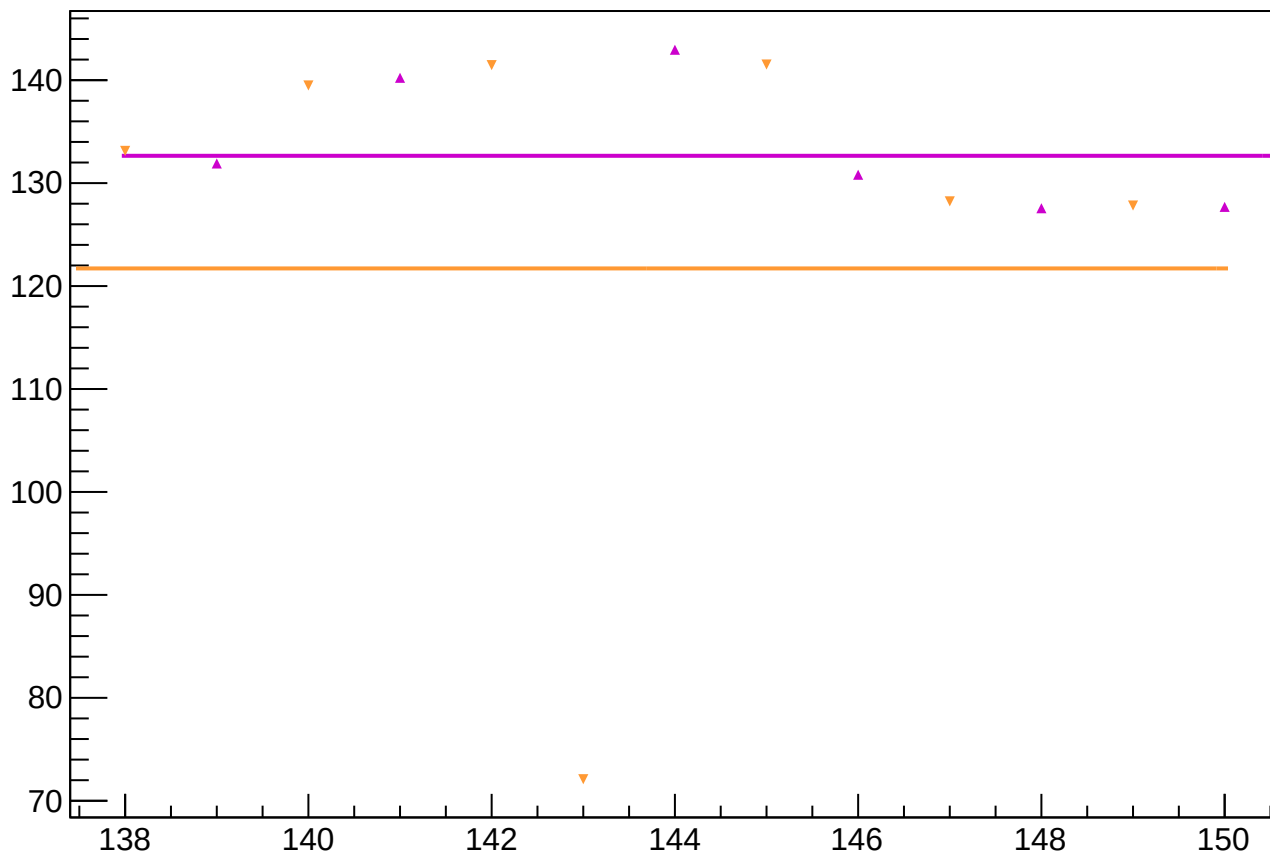


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -65.153+/-1.335  $\chi^2/\text{NDF}$ :366.8/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -66.784+/-1.409  $\chi^2/\text{NDF}$ :106.5/5

Left: -65.924+/-0.969  $\chi^2/\text{NDF}$ : 474.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -66.784+/-1.409  $\chi^2/\text{NDF}$ :106.5/5  
 Out: -65.153+/-1.335  $\chi^2/\text{NDF}$ :366.8/6  
 All: -65.924+/-0.969  $\chi^2/\text{NDF}$ : 474.0/12



reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 121.713+/-0.069  $\chi^2/\text{NDF}$ :137017.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 132.654+/-0.072  $\chi^2/\text{NDF}$ :6399.6/5

Left: 126.964+/-0.050  $\chi^2/\text{NDF}$ : 155428.9/12

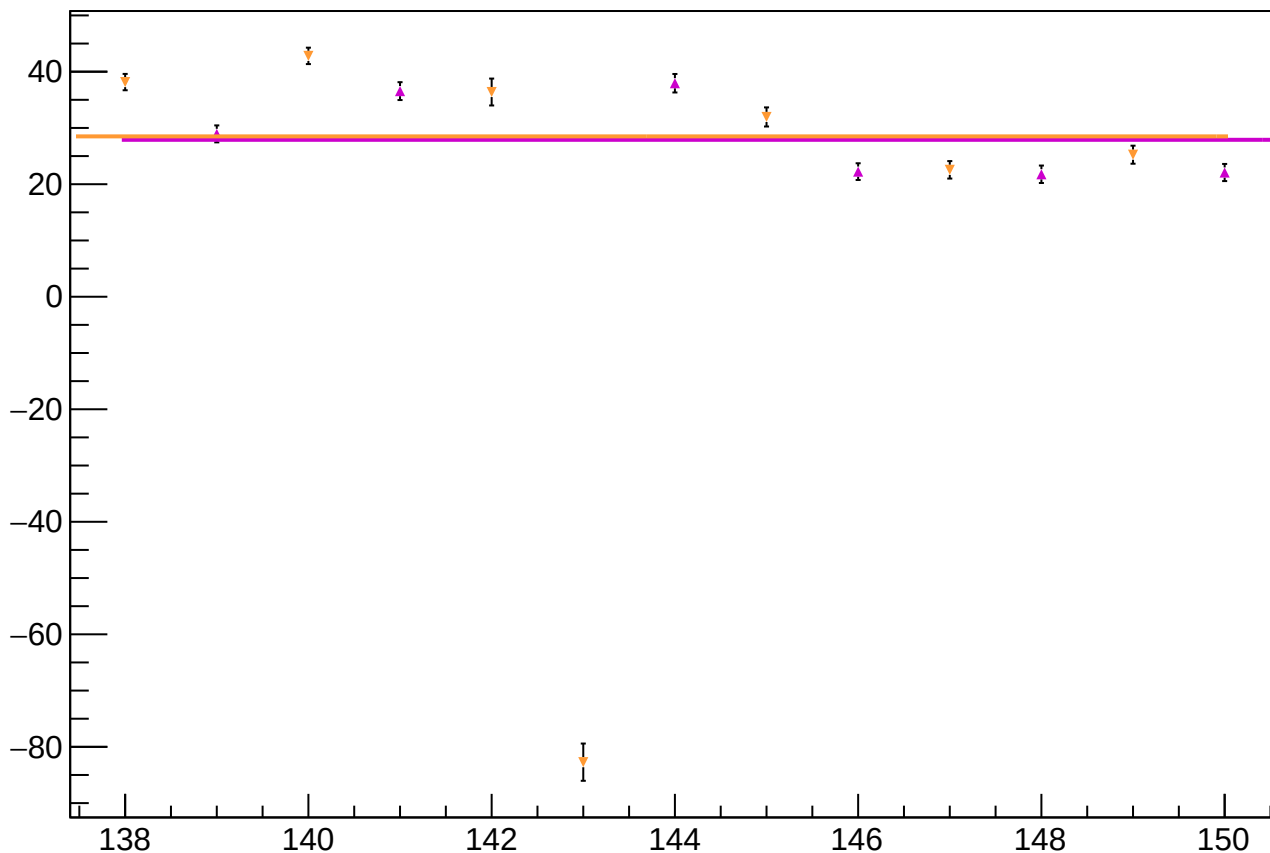
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 132.654+/-0.072  $\chi^2/\text{NDF}$ :6399.6/5

Out: 121.713+/-0.069  $\chi^2/\text{NDF}$ :137017.3/6

All: 126.964+/-0.050  $\chi^2/\text{NDF}$ : 155428.9/12

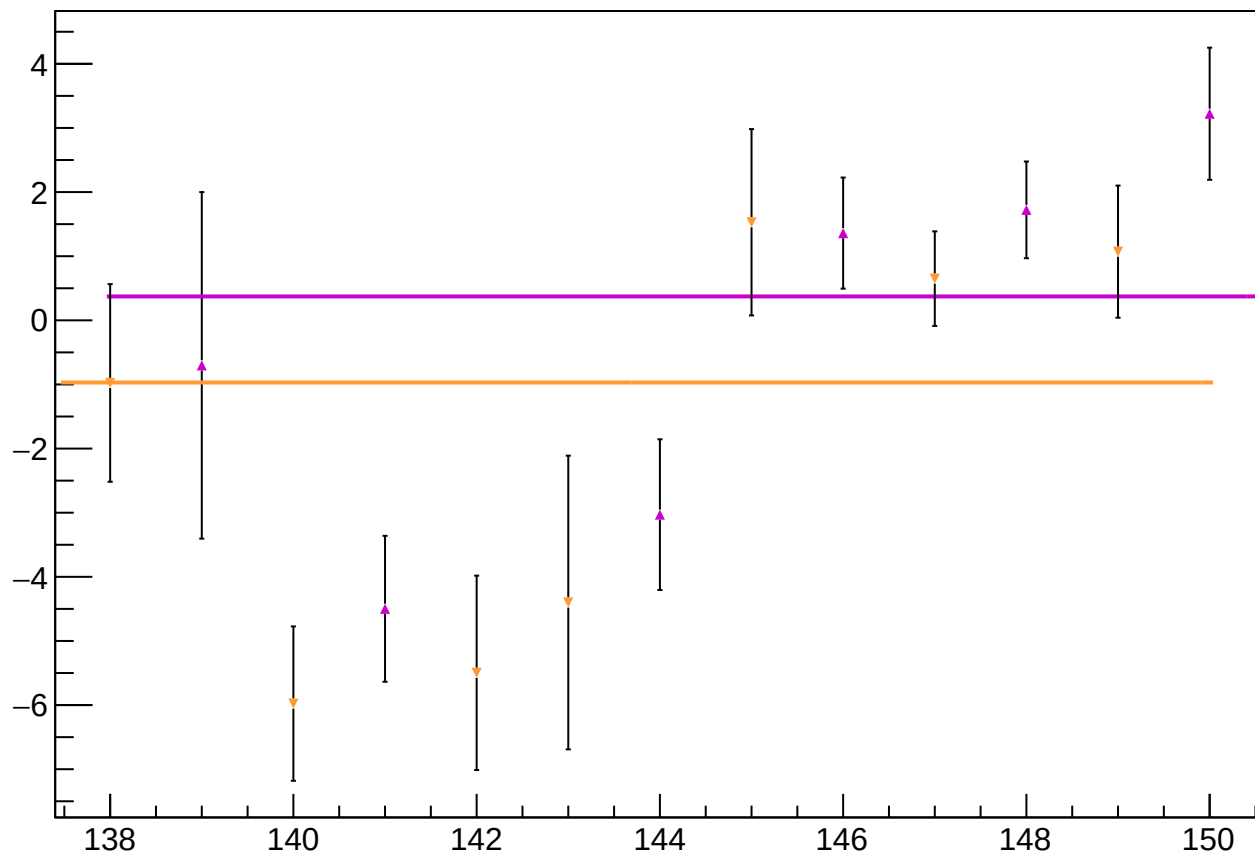
reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 28.500+/-0.651  $\chi^2/\text{NDF}$ :1302.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 27.893+/-0.632  $\chi^2/\text{NDF}$ :112.3/5

Left: 28.188+/-0.453  $\chi^2/\text{NDF}$ : 1415.7/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 27.893+/-0.632  $\chi^2/\text{NDF}$ :112.3/5  
 Out: 28.500+/-0.651  $\chi^2/\text{NDF}$ :1302.9/6  
 All: 28.188+/-0.453  $\chi^2/\text{NDF}$ : 1415.7/12

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.969+/-0.448  $\chi^2/\text{NDF}$ :40.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.373+/-0.420  $\chi^2/\text{NDF}$ :39.0/5

Left: -0.256+/-0.306  $\chi^2/\text{NDF}$ : 84.0/12

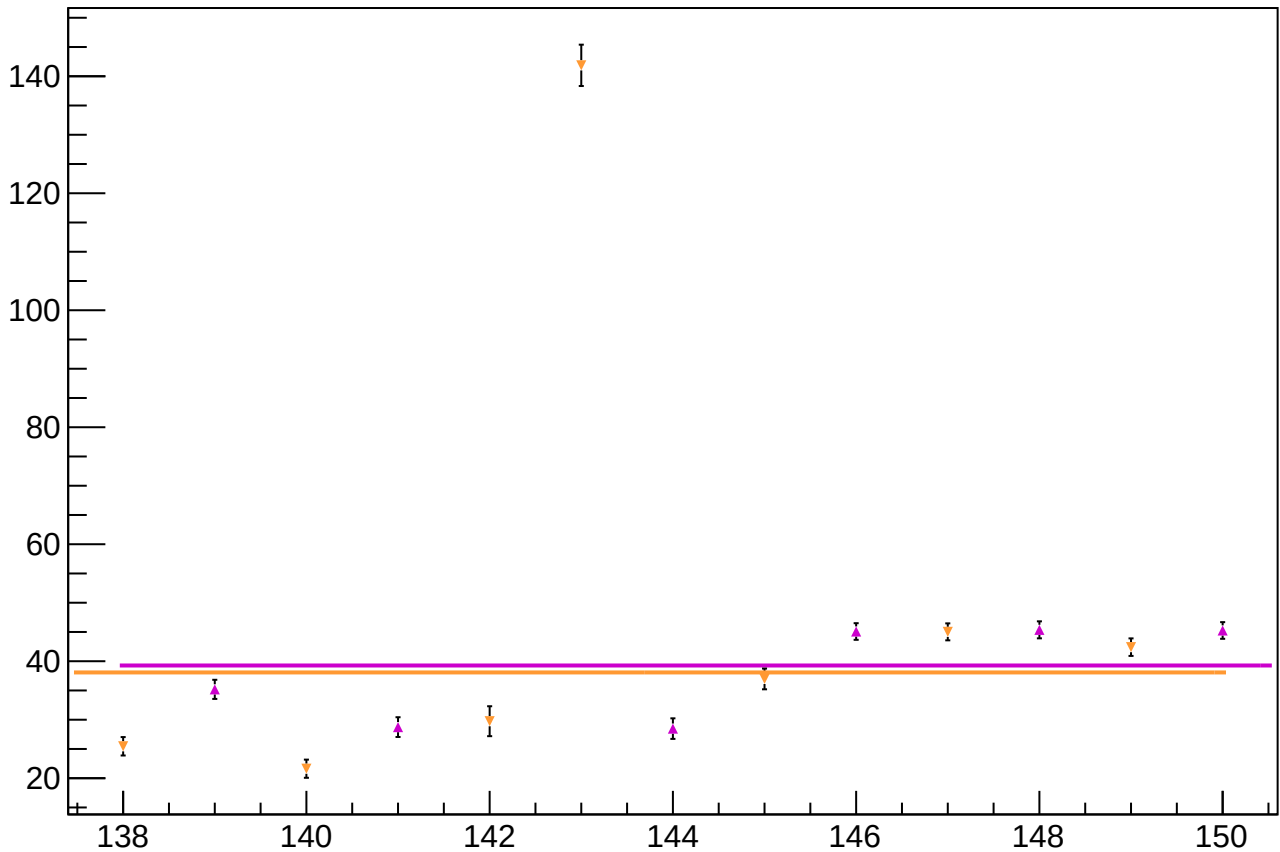
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.373+/-0.420  $\chi^2/\text{NDF}$ :39.0/5

Out: -0.969+/-0.448  $\chi^2/\text{NDF}$ :40.2/6

All: -0.256+/-0.306  $\chi^2/\text{NDF}$ : 84.0/12

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 38.083+/-0.661  $\chi^2/\text{NDF}$ :1081.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 39.270+/-0.631  $\chi^2/\text{NDF}$ :134.8/5

Left: 38.704+/-0.456  $\chi^2/\text{NDF}$ : 1217.7/12

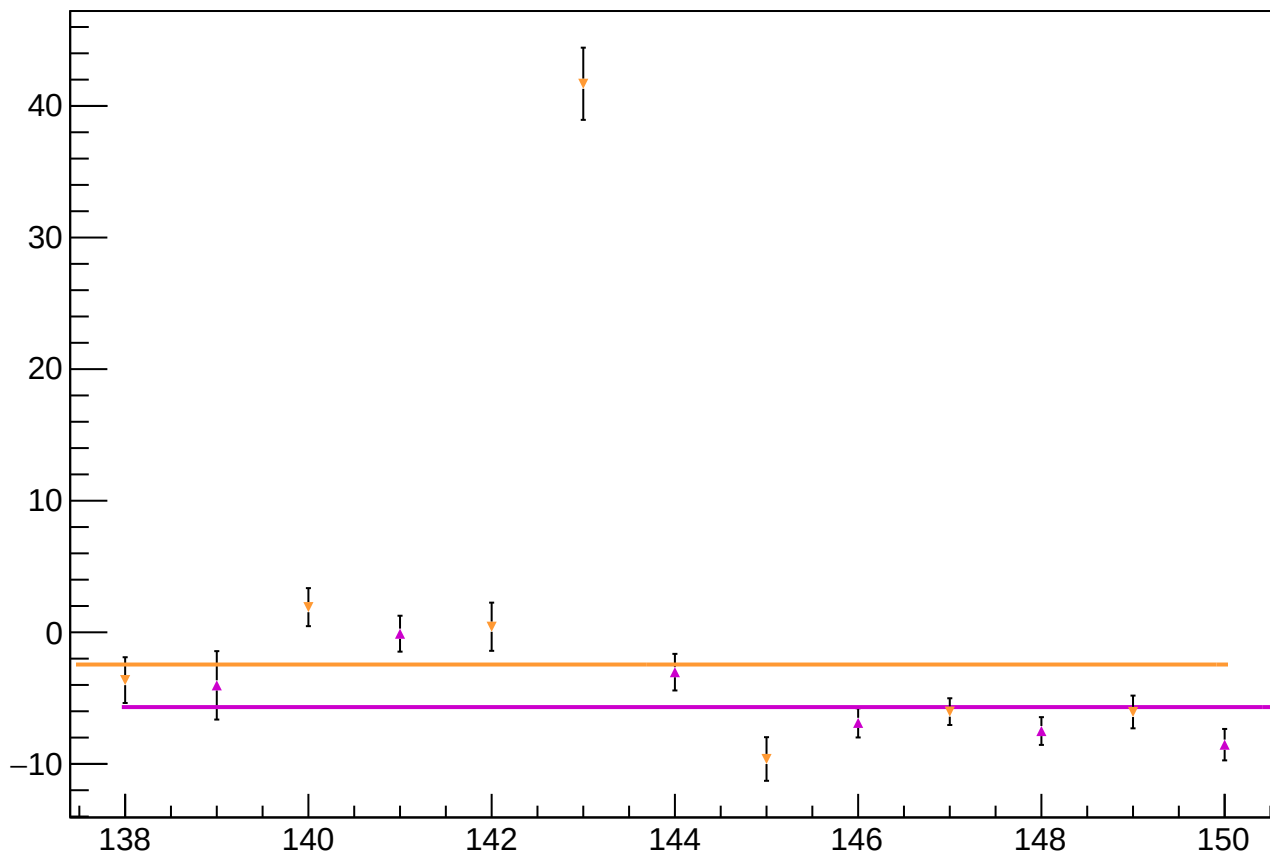
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 39.270+/-0.631  $\chi^2/\text{NDF}$ :134.8/5

Out: 38.083+/-0.661  $\chi^2/\text{NDF}$ :1081.2/6

All: 38.704+/-0.456  $\chi^2/\text{NDF}$ : 1217.7/12

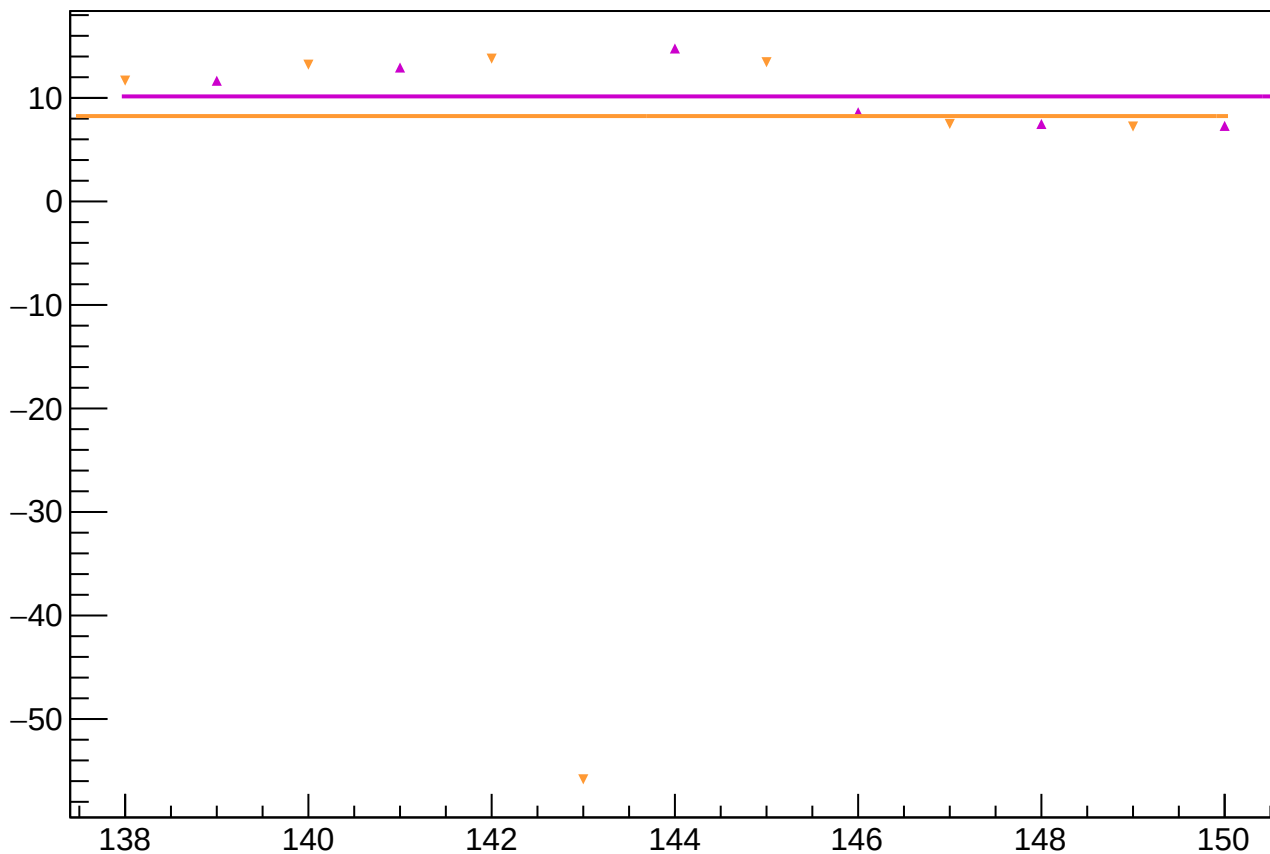
reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-2.448 \pm 0.557$   $\chi^2/\text{NDF}: 310.5/6$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-5.682 \pm 0.526$   $\chi^2/\text{NDF}: 30.6/5$

Left:  $-4.157 \pm 0.383$   $\chi^2/\text{NDF}: 358.9/12$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-5.682 \pm 0.526$   $\chi^2/\text{NDF}: 30.6/5$   
 Out:  $-2.448 \pm 0.557$   $\chi^2/\text{NDF}: 310.5/6$   
 All:  $-4.157 \pm 0.383$   $\chi^2/\text{NDF}: 358.9/12$

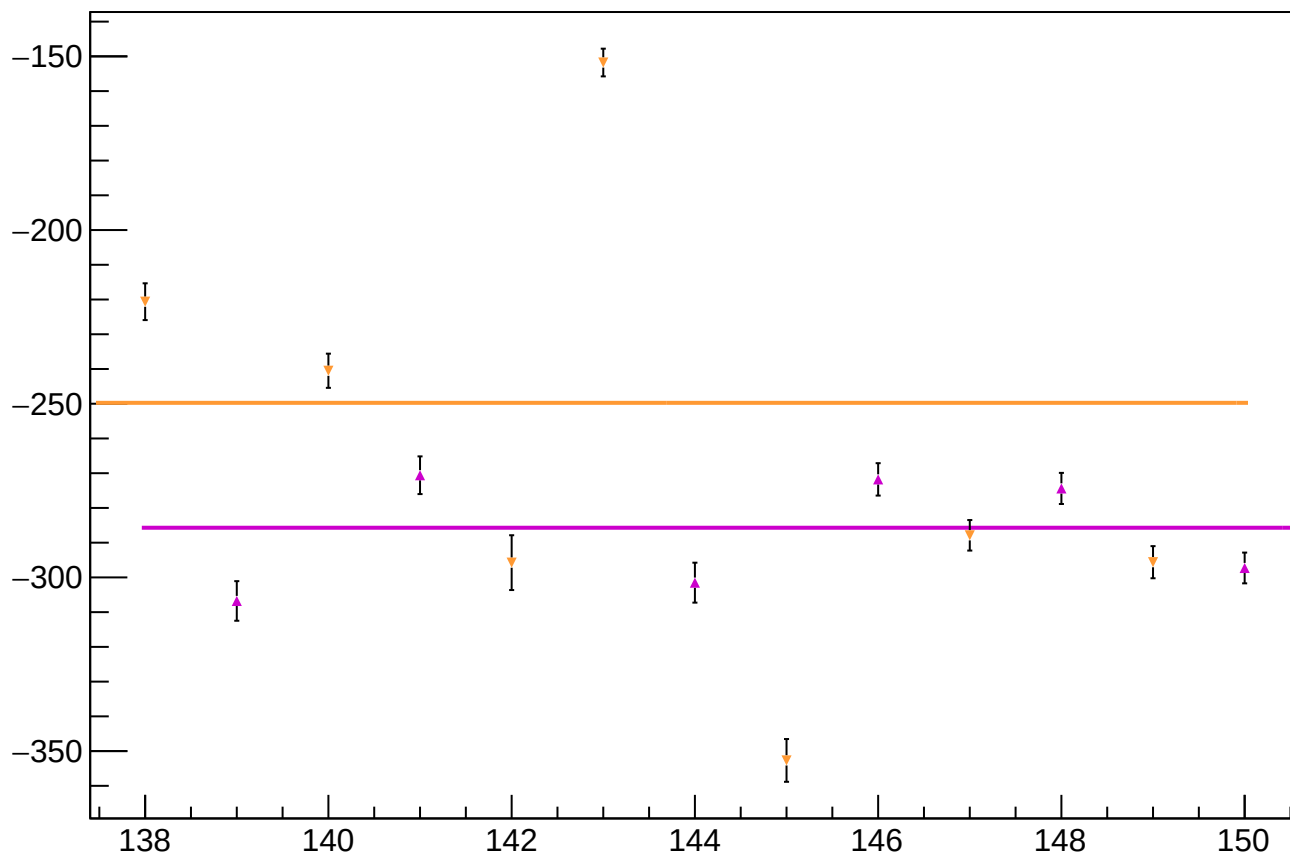
reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 8.247+/-0.028     $\chi^2/\text{NDF}$ :222242.9/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 10.147+/-0.026     $\chi^2/\text{NDF}$ :10676.1/5

Left: 9.257+/-0.019     $\chi^2/\text{NDF}$ : 235392.9/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 10.147+/-0.026     $\chi^2/\text{NDF}$ :10676.1/5  
 Out: 8.247+/-0.028     $\chi^2/\text{NDF}$ :222242.9/6  
 All: 9.257+/-0.019     $\chi^2/\text{NDF}$ : 235392.9/12

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -249.742+/-1.887  $\chi^2/\text{NDF}$ :1124.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -285.701+/-2.033  $\chi^2/\text{NDF}$ :51.1/5

Left: -266.380+/-1.383  $\chi^2/\text{NDF}$ : 1343.3/12

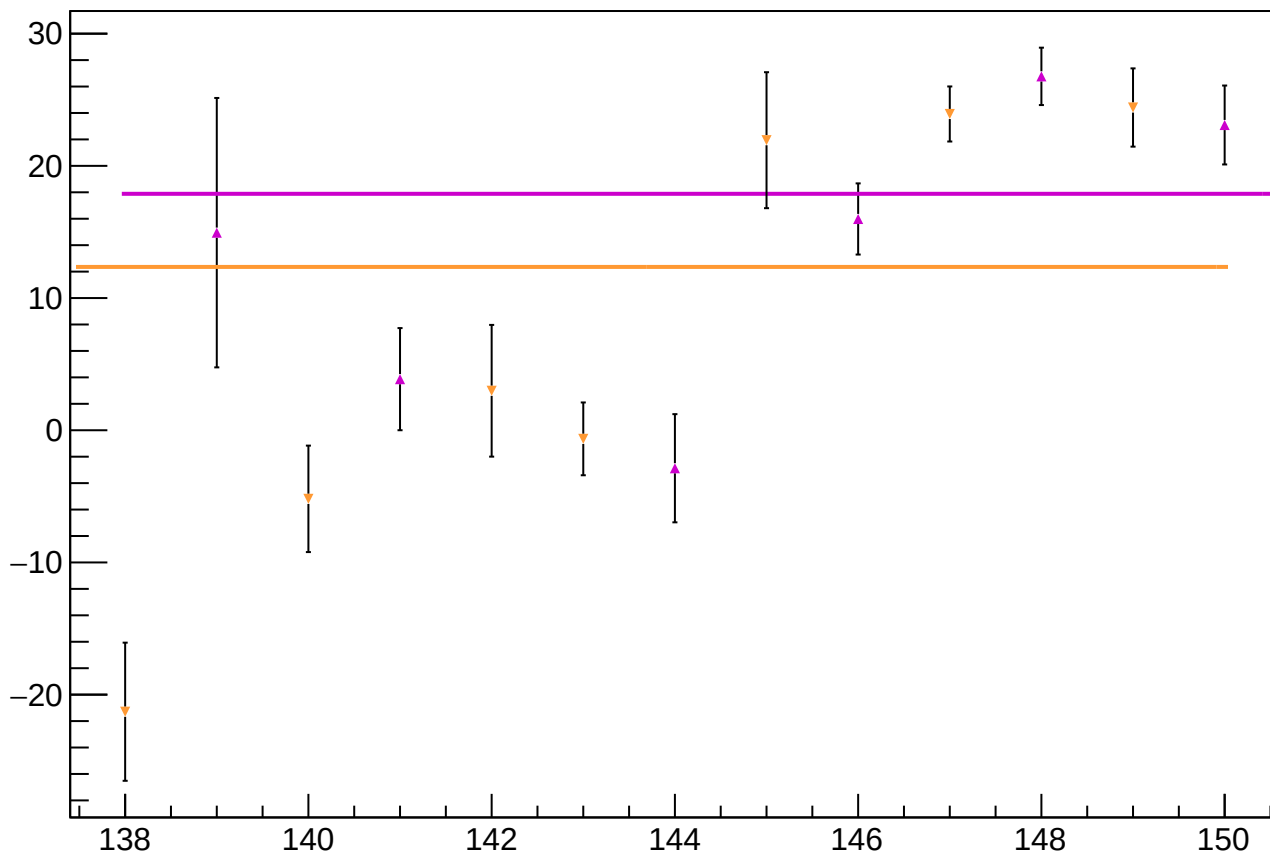
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -285.701+/-2.033  $\chi^2/\text{NDF}$ :51.1/5

Out: -249.742+/-1.887  $\chi^2/\text{NDF}$ :1124.2/6

All: -266.380+/-1.383  $\chi^2/\text{NDF}$ : 1343.3/12

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 12.355 $\pm$ 1.237  $\chi^2$ /NDF:137.2/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 17.886 $\pm$ 1.292  $\chi^2$ /NDF:59.3/5

Left: 15.000 $\pm$ 0.894  $\chi^2$ /NDF: 206.1/12

Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

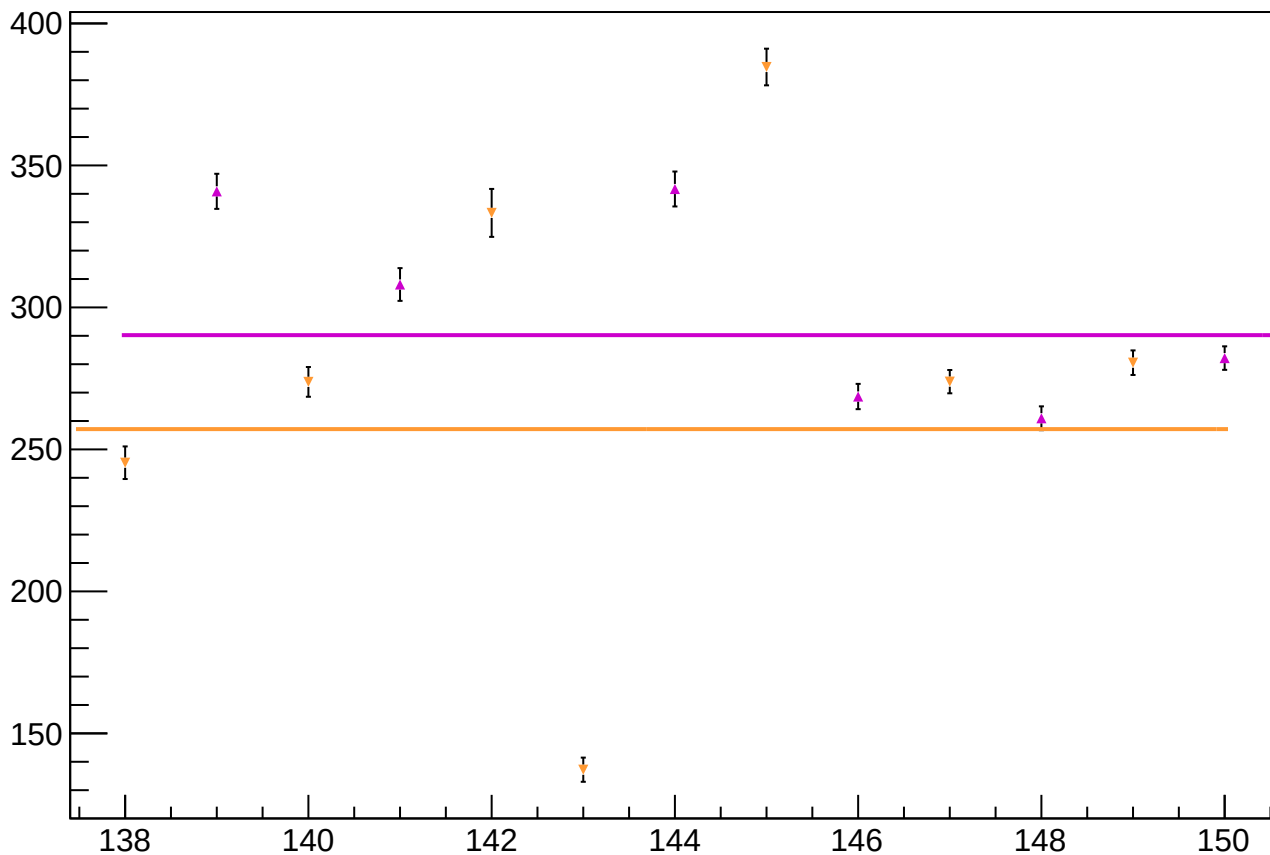
In: 17.886 $\pm$ 1.292  $\chi^2$ /NDF:59.3/5

Out: 12.355 $\pm$ 1.237  $\chi^2$ /NDF:137.2/6

All: 15.000 $\pm$ 0.894  $\chi^2$ /NDF: 206.1/12



reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 257.148+/-1.914  $\chi^2/\text{NDF}$ :1325.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 290.235+/-2.007  $\chi^2/\text{NDF}$ :222.7/5

Left: 272.909+/-1.385  $\chi^2/\text{NDF}$ : 1690.0/12

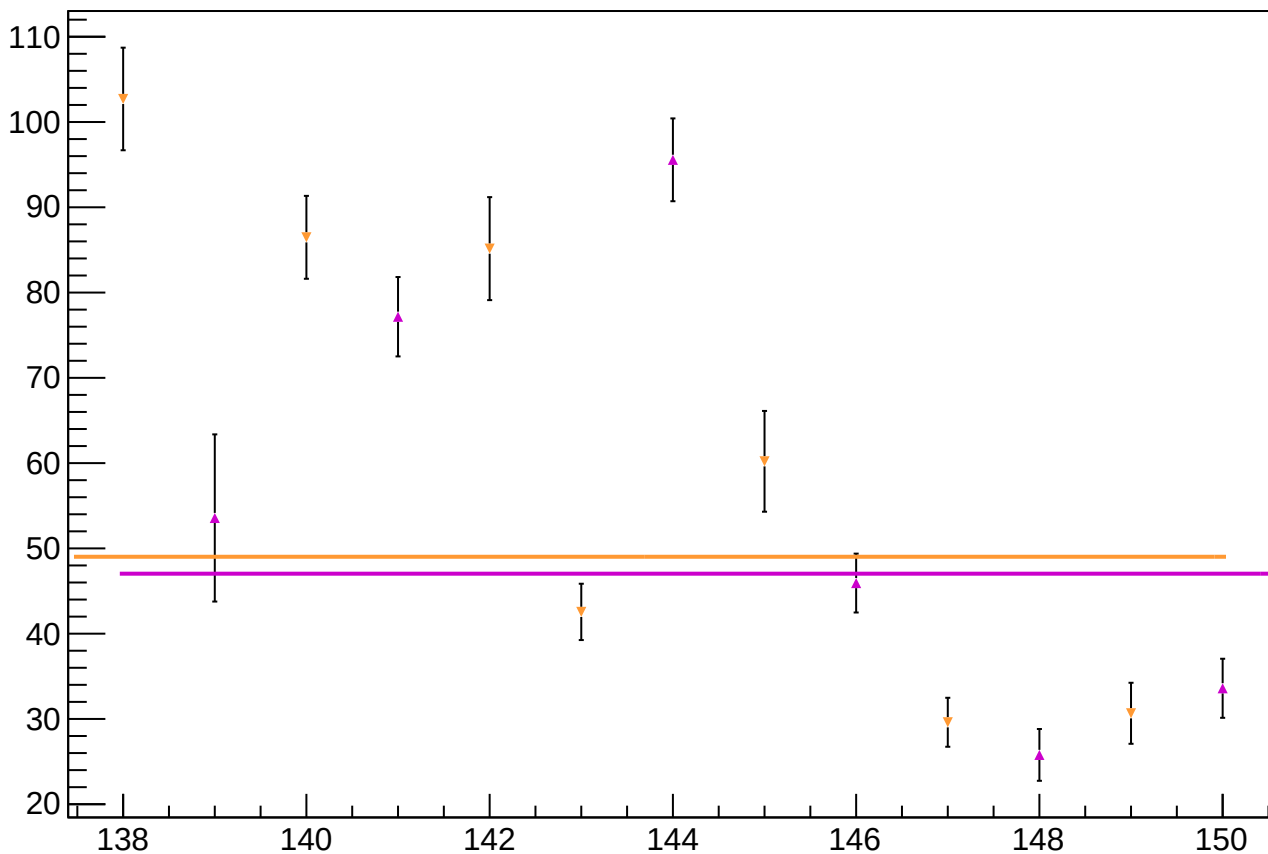
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 290.235+/-2.007  $\chi^2/\text{NDF}$ :222.7/5

Out: 257.148+/-1.914  $\chi^2/\text{NDF}$ :1325.0/6

All: 272.909+/-1.385  $\chi^2/\text{NDF}$ : 1690.0/12

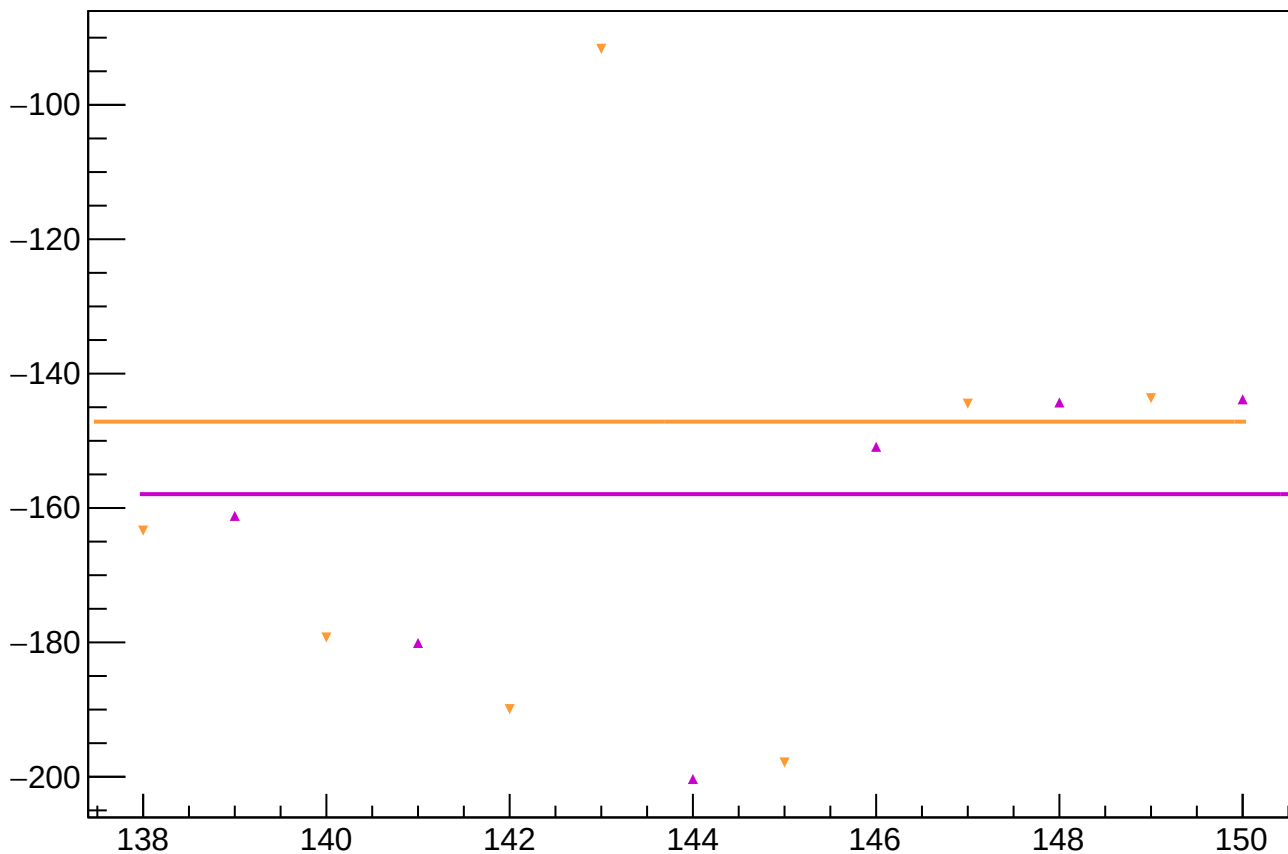
reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 49.019 $\pm$ 1.548  $\chi^2$ /NDF:254.2/6  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 47.034 $\pm$ 1.634  $\chi^2$ /NDF:206.4/5

Left: 48.080 $\pm$ 1.124  $\chi^2$ /NDF: 461.4/12  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 47.034 $\pm$ 1.634  $\chi^2$ /NDF:206.4/5  
 Out: 49.019 $\pm$ 1.548  $\chi^2$ /NDF:254.2/6  
 All: 48.080 $\pm$ 1.124  $\chi^2$ /NDF: 461.4/12

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -147.146+/-0.081  $\chi^2/\text{NDF}$ :186180.3/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -157.937+/-0.084  $\chi^2/\text{NDF}$ :47526.0/5

Left: -152.350+/-0.058  $\chi^2/\text{NDF}$ : 242221.0/12

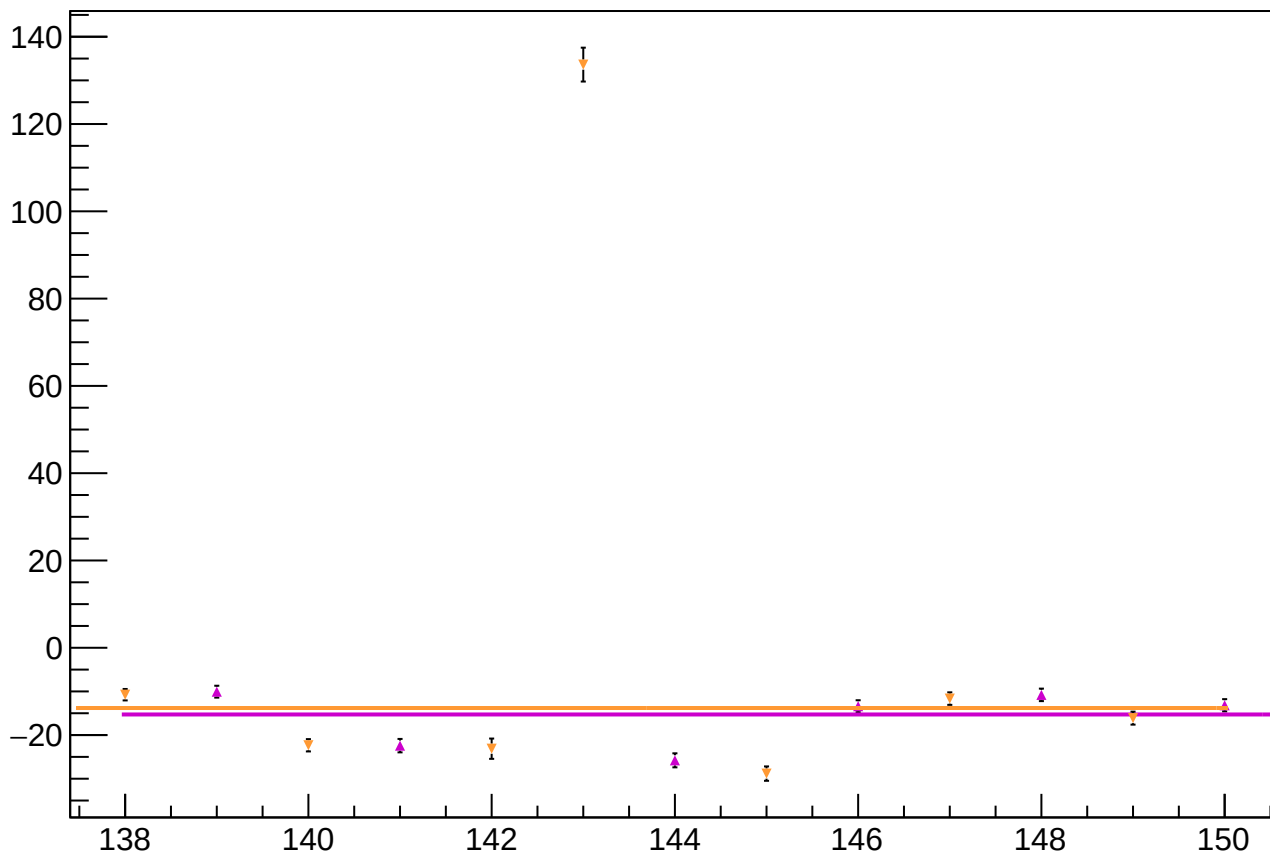
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -157.937+/-0.084  $\chi^2/\text{NDF}$ :47526.0/5

Out: -147.146+/-0.081  $\chi^2/\text{NDF}$ :186180.3/6

All: -152.350+/-0.058  $\chi^2/\text{NDF}$ : 242221.0/12

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -13.800+/-0.615  $\chi^2/\text{NDF}$ :1588.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -15.282+/-0.590  $\chi^2/\text{NDF}$ :92.9/5

Left: -14.572+/-0.426  $\chi^2/\text{NDF}$ : 1684.6/12

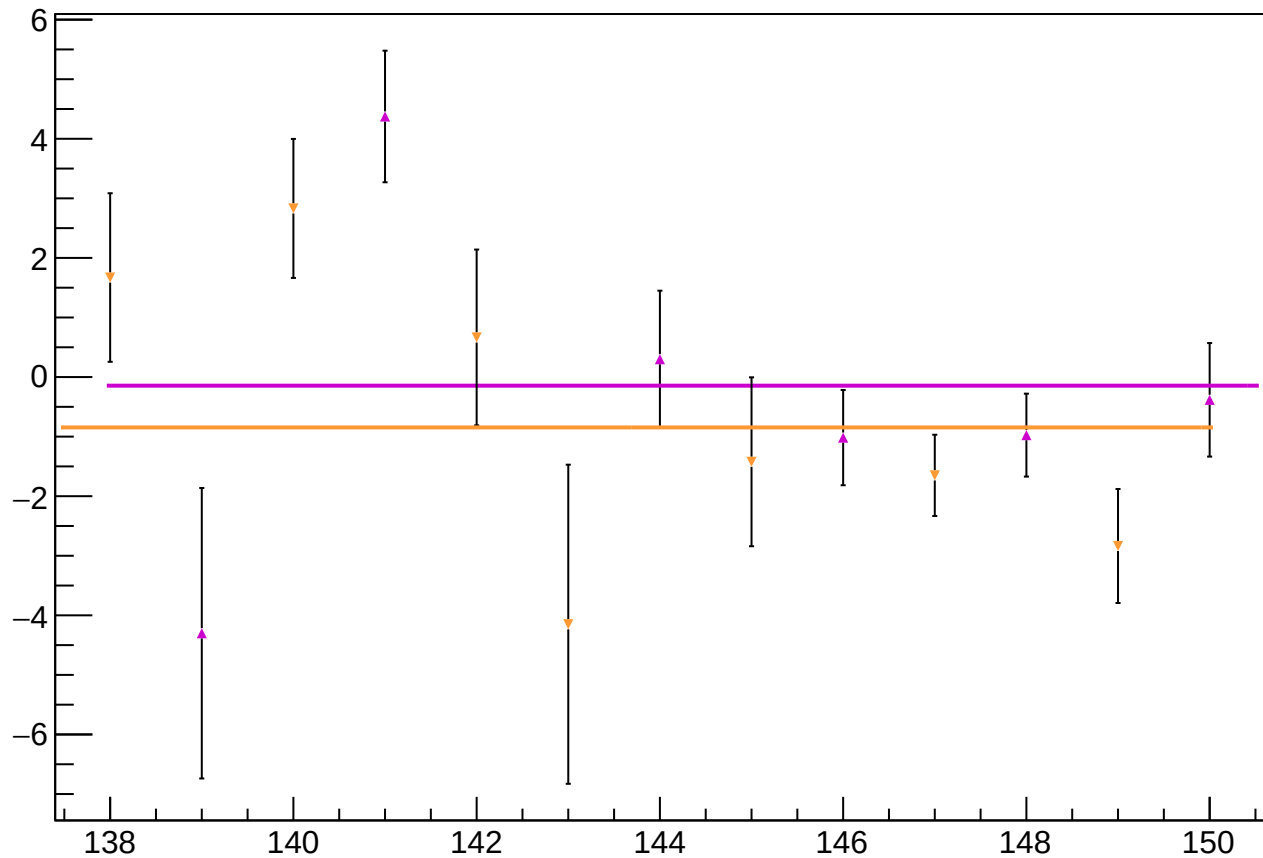
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.282+/-0.590  $\chi^2/\text{NDF}$ :92.9/5

Out: -13.800+/-0.615  $\chi^2/\text{NDF}$ :1588.7/6

All: -14.572+/-0.426  $\chi^2/\text{NDF}$ : 1684.6/12

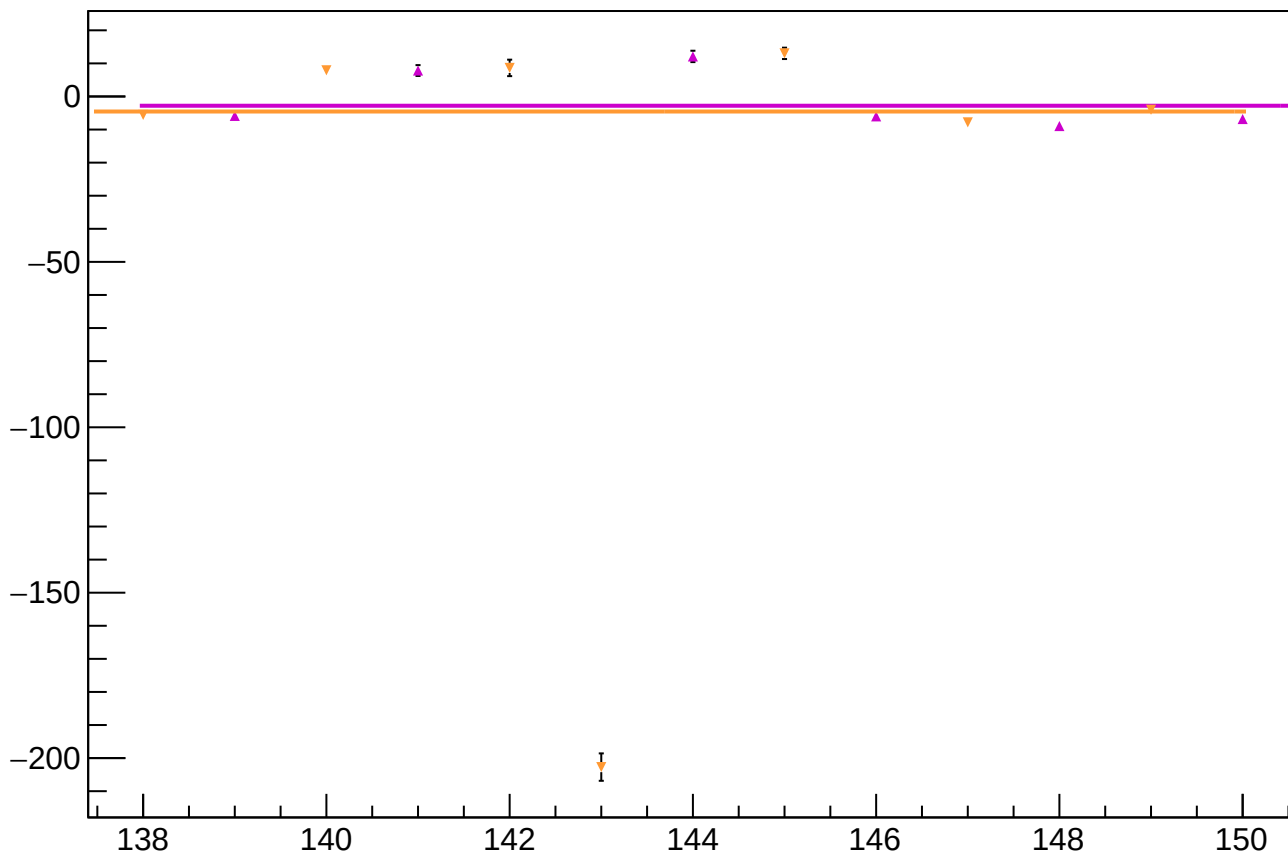
reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.846+/-0.424  $\chi^2/\text{NDF}$ : 21.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.145+/-0.393  $\chi^2/\text{NDF}$ : 22.5/5

Left: -0.469+/-0.288  $\chi^2/\text{NDF}$ : 45.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.145+/-0.393  $\chi^2/\text{NDF}$ : 22.5/5  
 Out: -0.846+/-0.424  $\chi^2/\text{NDF}$ : 21.5/6  
 All: -0.469+/-0.288  $\chi^2/\text{NDF}$ : 45.5/12

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



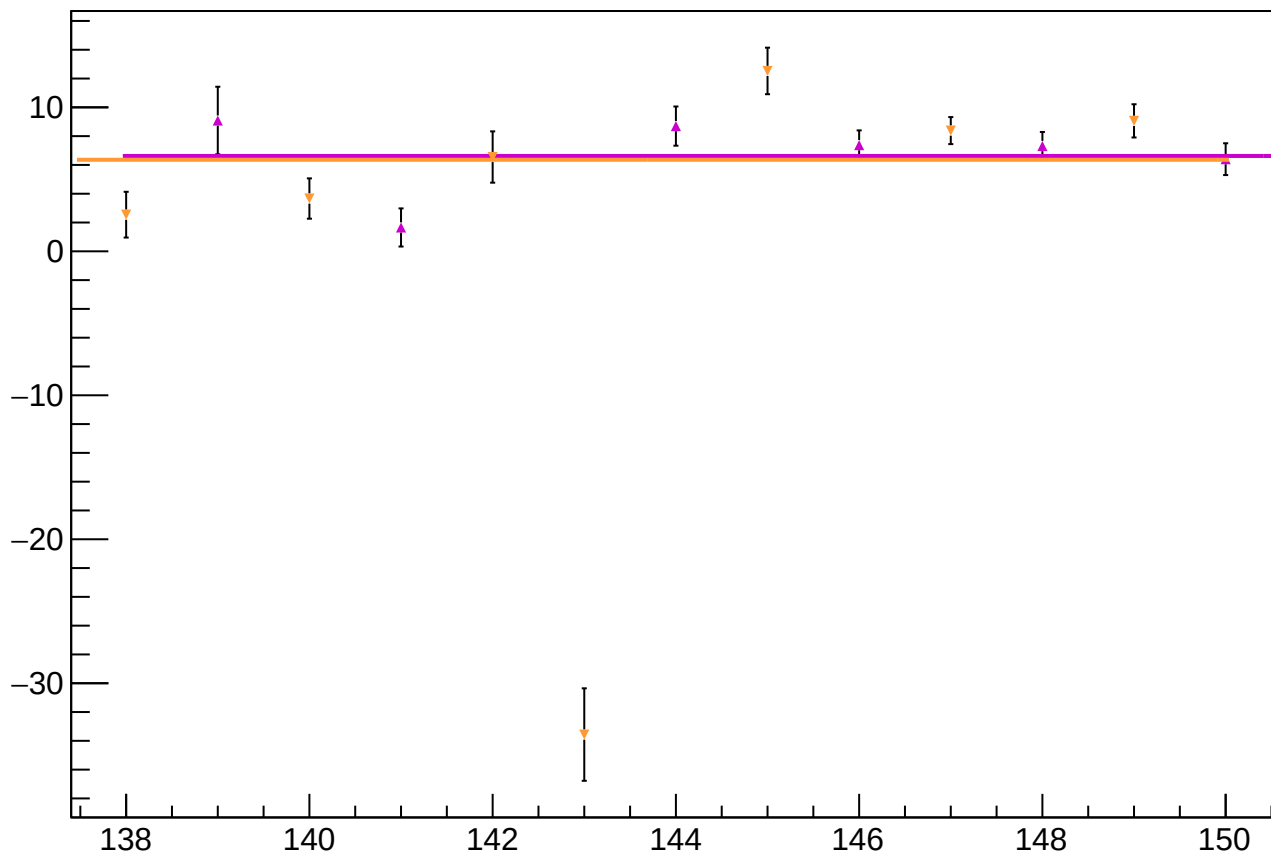
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -4.545+/-0.624  $\chi^2/\text{NDF}$ :2496.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.799+/-0.589  $\chi^2/\text{NDF}$ :158.0/5

Left: -3.621+/-0.428  $\chi^2/\text{NDF}$ : 2659.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2.799+/-0.589  $\chi^2/\text{NDF}$ :158.0/5  
 Out: -4.545+/-0.624  $\chi^2/\text{NDF}$ :2496.9/6

All: -3.621+/-0.428  $\chi^2/\text{NDF}$ : 2659.0/12

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6.358+/-0.528  $\chi^2/\text{NDF}$ :188.7/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 6.623+/-0.493  $\chi^2/\text{NDF}$ :18.6/5

Left: 6.499+/-0.360  $\chi^2/\text{NDF}$ : 207.4/12

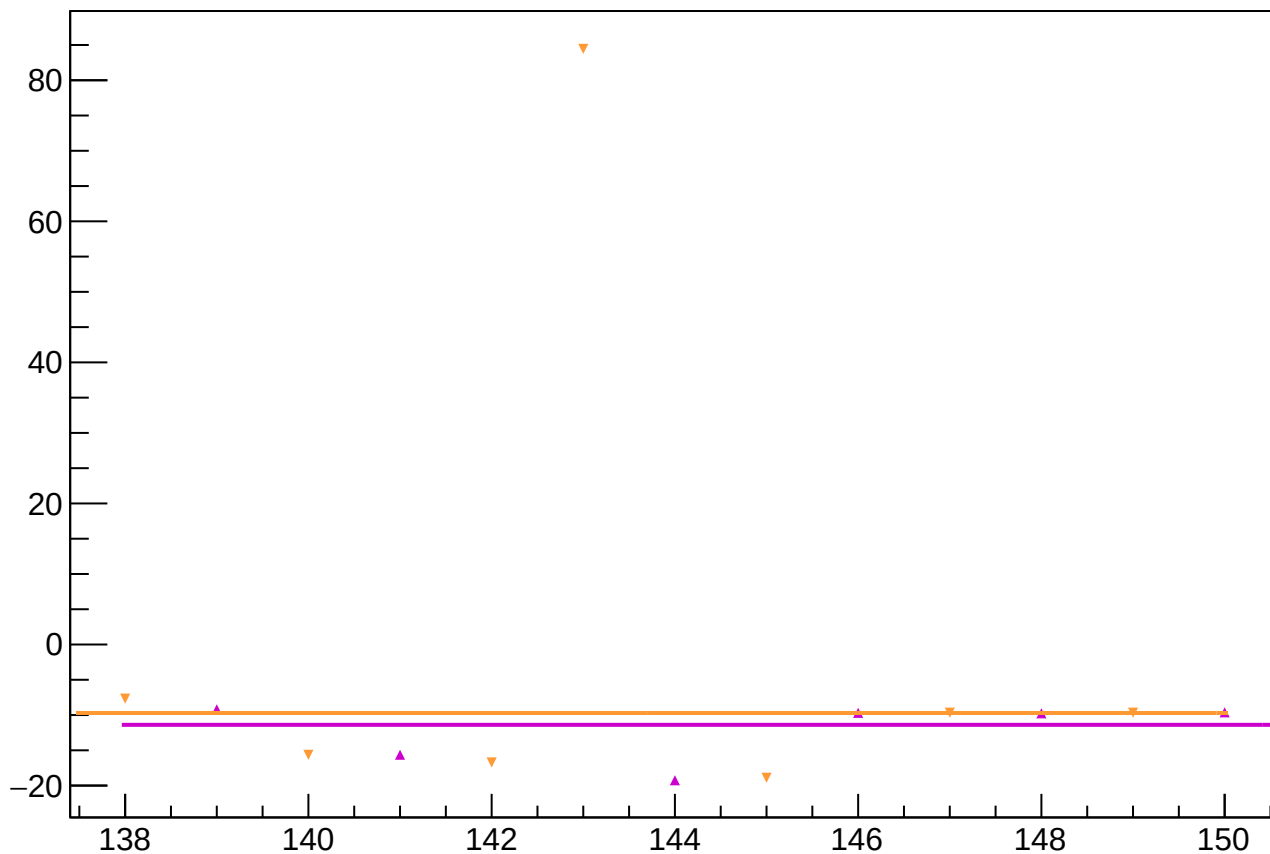
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 6.623+/-0.493  $\chi^2/\text{NDF}$ :18.6/5

Out: 6.358+/-0.528  $\chi^2/\text{NDF}$ :188.7/6

All: 6.499+/-0.360  $\chi^2/\text{NDF}$ : 207.4/12

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.709+/-0.026  $\chi^2/\text{NDF}$ :354315.9/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -11.388+/-0.024  $\chi^2/\text{NDF}$ :19497.1/5

Left: -10.614+/-0.018  $\chi^2/\text{NDF}$ : 376007.0/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

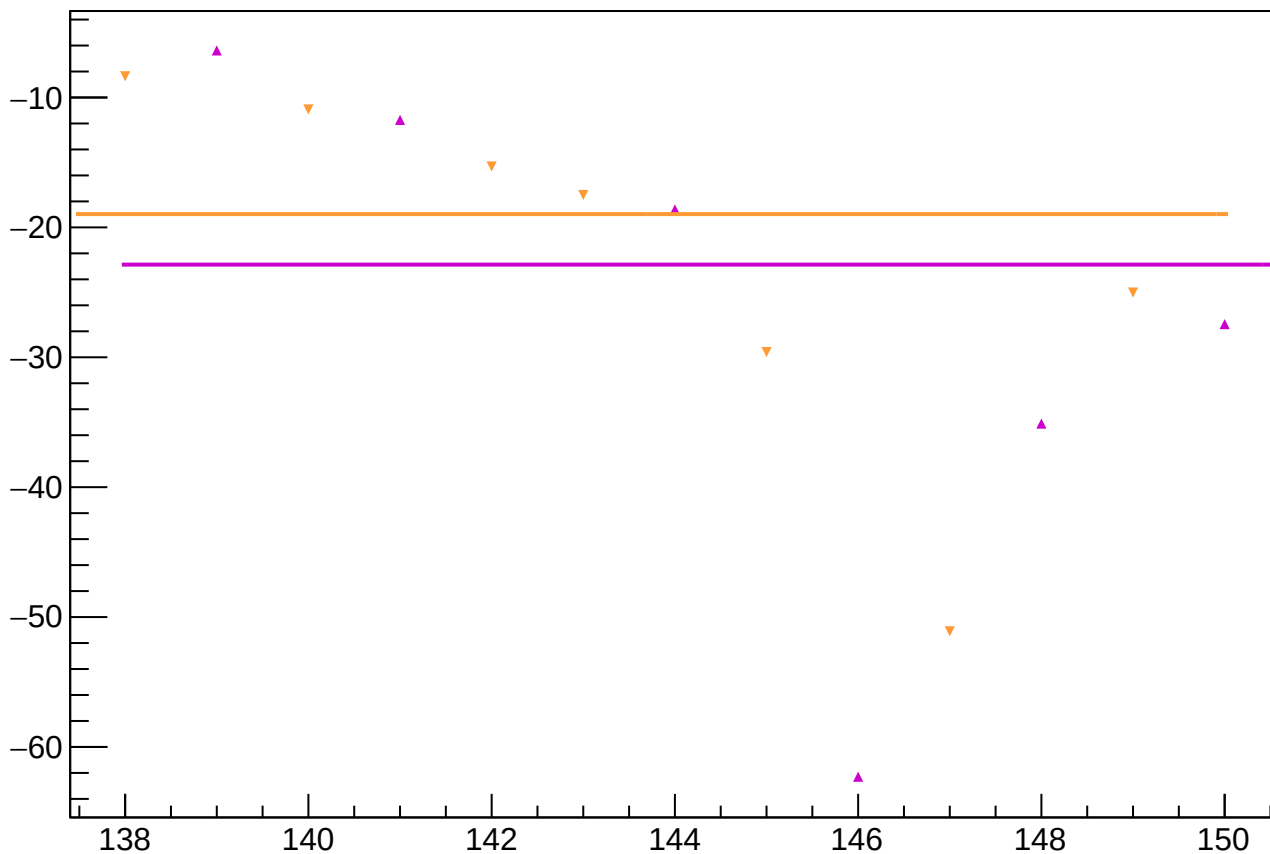
In: -11.388+/-0.024  $\chi^2/\text{NDF}$ :19497.1/5

Out: -9.709+/-0.026  $\chi^2/\text{NDF}$ :354315.9/6

All: -10.614+/-0.018  $\chi^2/\text{NDF}$ : 376007.0/12



reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -18.977+/-0.103  $\chi^2/\text{NDF}$ :14312.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -22.867+/-0.104  $\chi^2/\text{NDF}$ :26583.2/5

Left: -20.902+/-0.073  $\chi^2/\text{NDF}$ : 41603.3/12

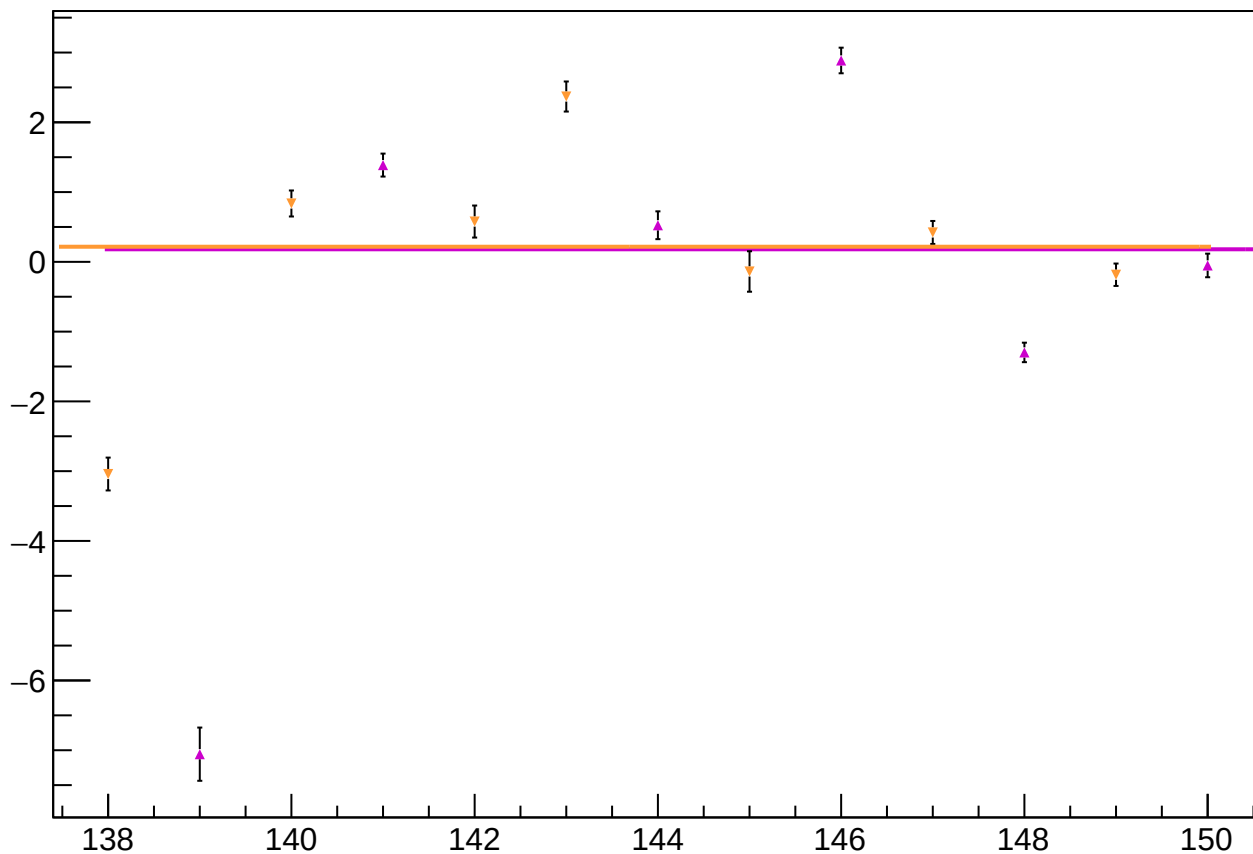
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.867+/-0.104  $\chi^2/\text{NDF}$ :26583.2/5

Out: -18.977+/-0.103  $\chi^2/\text{NDF}$ :14312.0/6

All: -20.902+/-0.073  $\chi^2/\text{NDF}$ : 41603.3/12

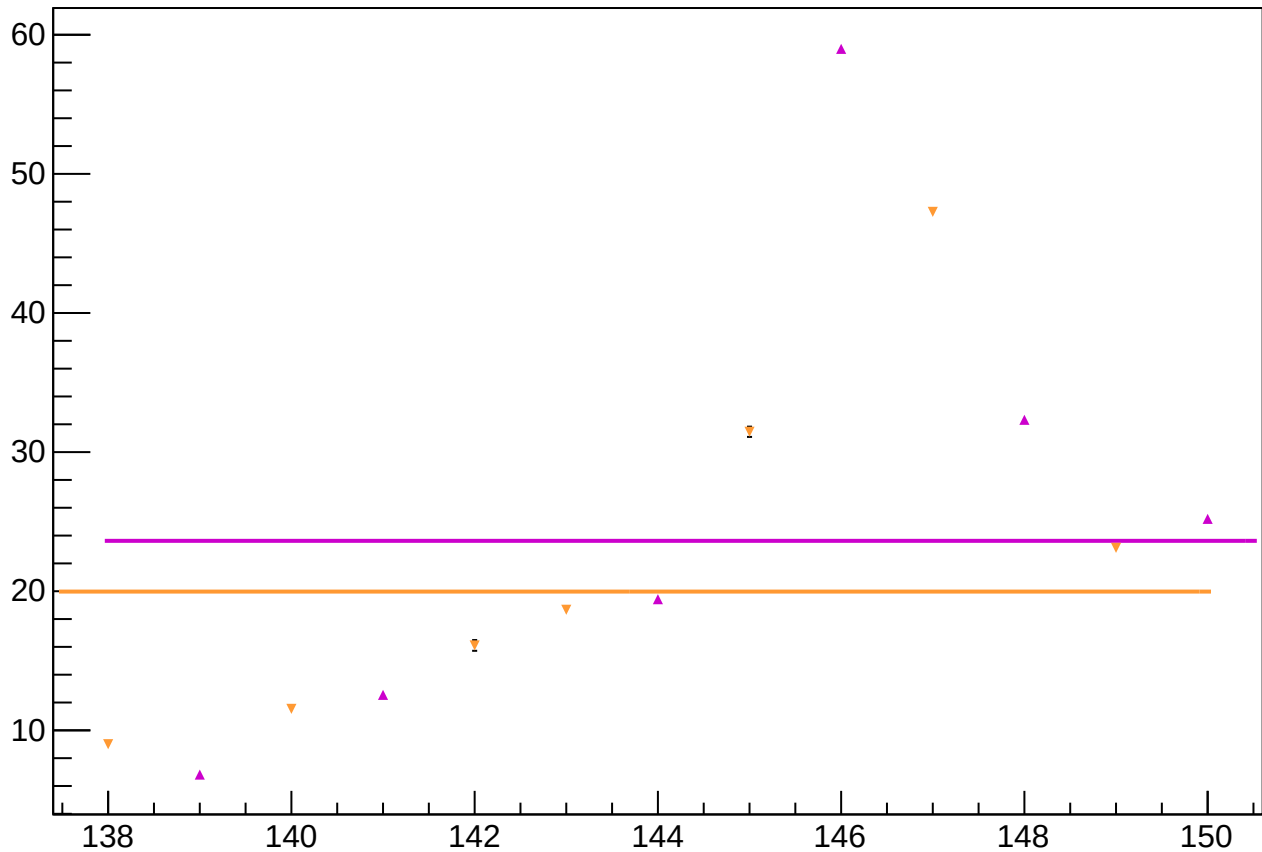
reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.217+/-0.076  $\chi^2/\text{NDF}$ :314.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.180+/-0.074  $\chi^2/\text{NDF}$ :747.8/5

Left: 0.198+/-0.053  $\chi^2/\text{NDF}$ : 1062.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.180+/-0.074  $\chi^2/\text{NDF}$ :747.8/5  
 Out: 0.217+/-0.076  $\chi^2/\text{NDF}$ :314.1/6  
 All: 0.198+/-0.053  $\chi^2/\text{NDF}$ : 1062.1/12

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 19.975+/-0.106  $\chi^2/\text{NDF}$ :12149.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 23.622+/-0.105  $\chi^2/\text{NDF}$ :22585.1/5

Left: 21.814+/-0.075  $\chi^2/\text{NDF}$ : 35331.5/12

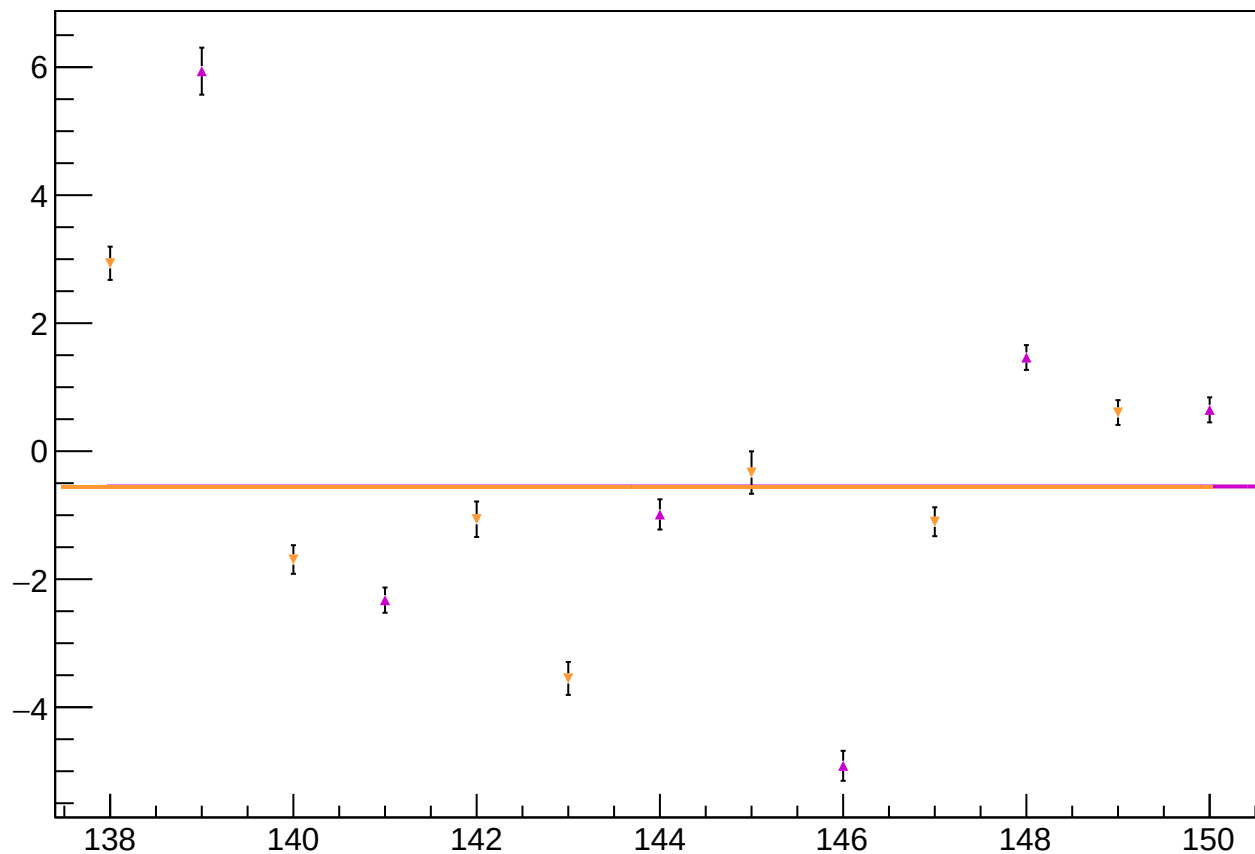
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 23.622+/-0.105  $\chi^2/\text{NDF}$ :22585.1/5

Out: 19.975+/-0.106  $\chi^2/\text{NDF}$ :12149.2/6

All: 21.814+/-0.075  $\chi^2/\text{NDF}$ : 35331.5/12

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.560+/-0.092  $\chi^2/\text{NDF}$ :387.4/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.551+/-0.091  $\chi^2/\text{NDF}$ :889.1/5

Left: -0.555+/-0.065  $\chi^2/\text{NDF}$ : 1276.5/12

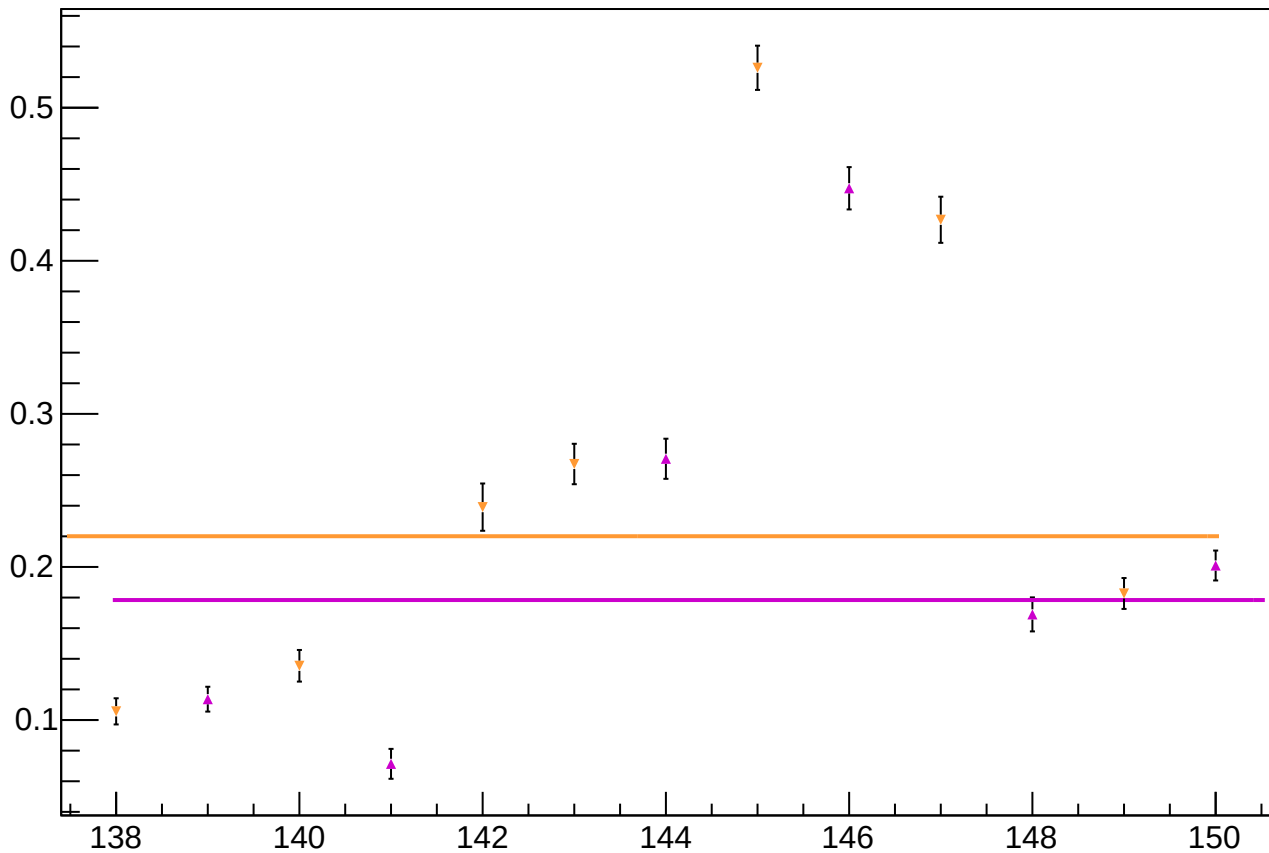
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.551+/-0.091  $\chi^2/\text{NDF}$ :889.1/5

Out: -0.560+/-0.092  $\chi^2/\text{NDF}$ :387.4/6

All: -0.555+/-0.065  $\chi^2/\text{NDF}$ : 1276.5/12

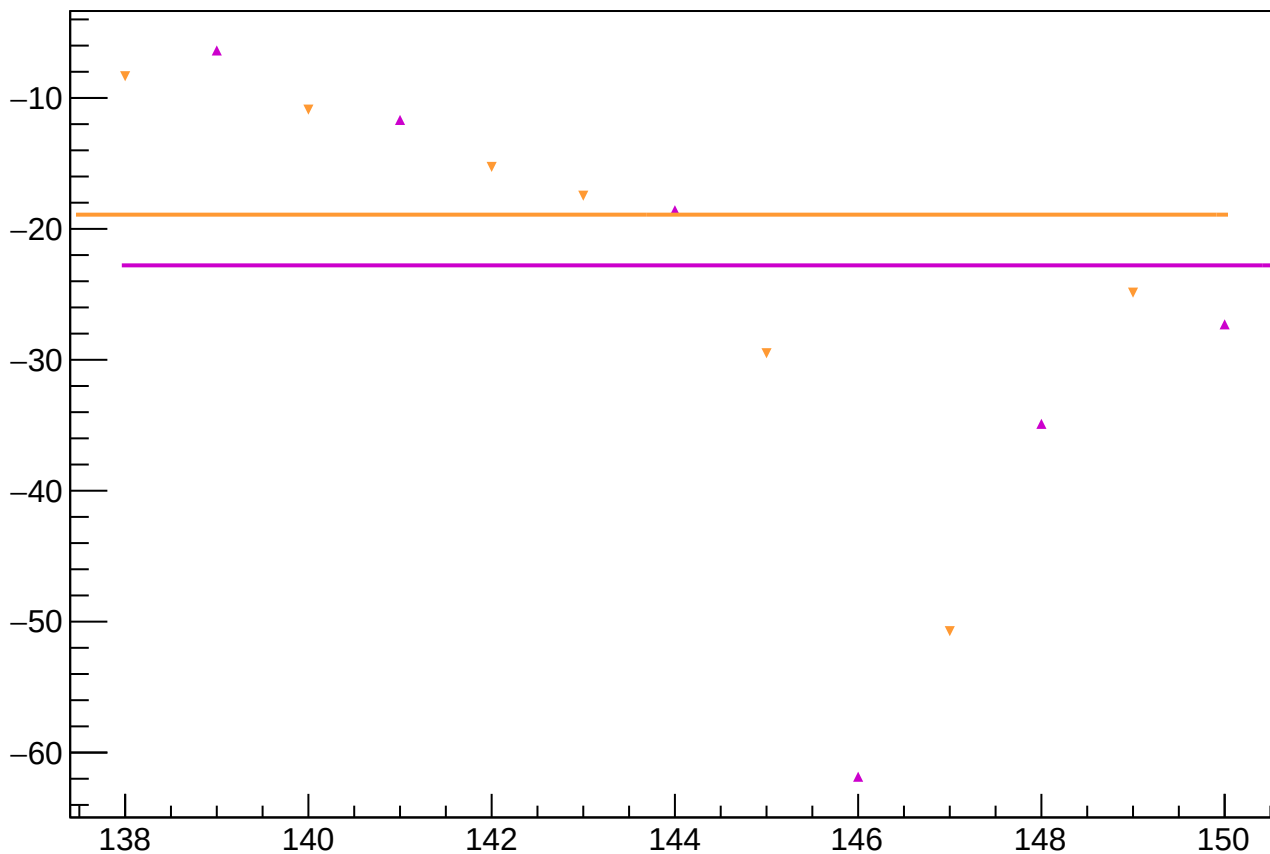
reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.220+/-0.004  $\chi^2/\text{NDF}$ :911.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.178+/-0.004  $\chi^2/\text{NDF}$ :617.8/5

Left: 0.199+/-0.003  $\chi^2/\text{NDF}$ : 1575.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.178+/-0.004  $\chi^2/\text{NDF}$ :617.8/5  
 Out: 0.220+/-0.004  $\chi^2/\text{NDF}$ :911.2/6  
 All: 0.199+/-0.003  $\chi^2/\text{NDF}$ : 1575.5/12

reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -18.913+/-0.102  $\chi^2/\text{NDF}$ :14278.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -22.786+/-0.103  $\chi^2/\text{NDF}$ :26506.0/5

Left: -20.831+/-0.073  $\chi^2/\text{NDF}$ : 41494.2/12

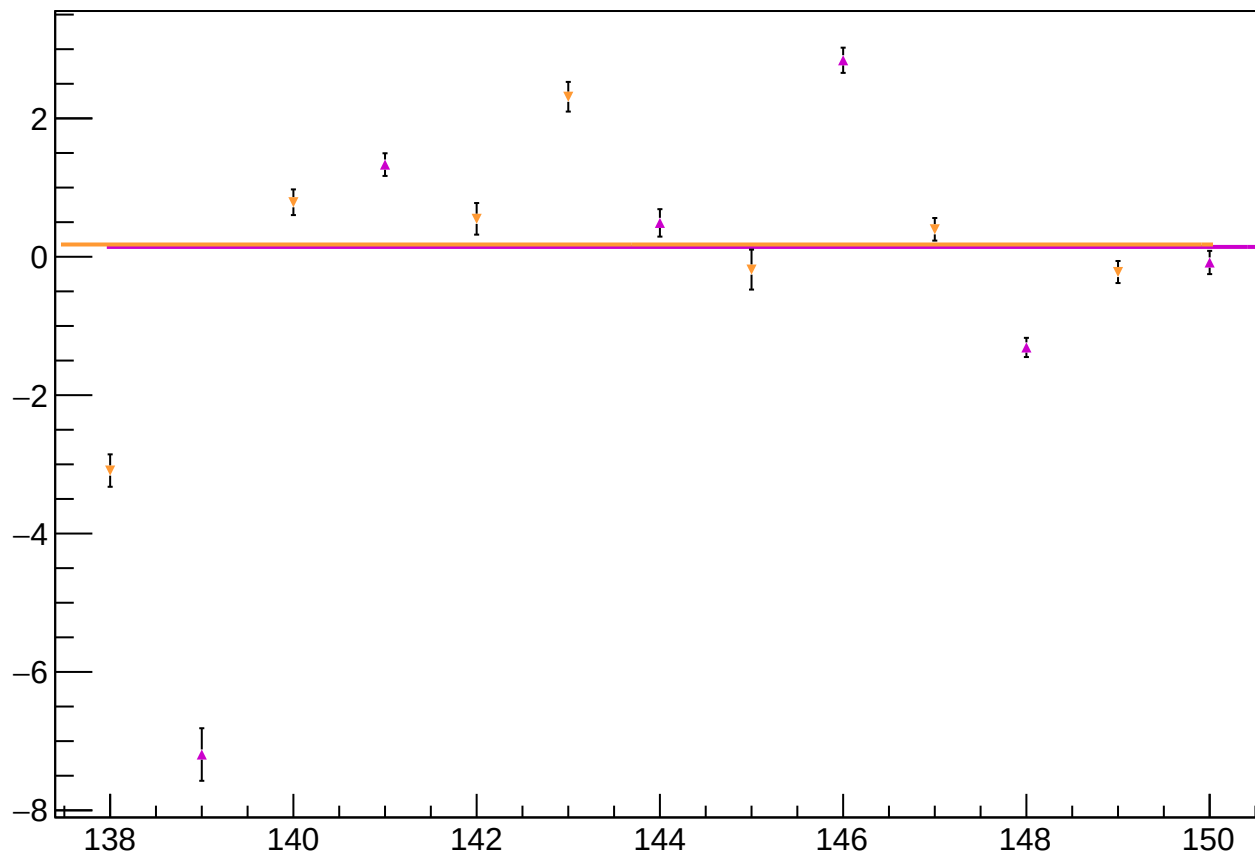
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.786+/-0.103  $\chi^2/\text{NDF}$ :26506.0/5

Out: -18.913+/-0.102  $\chi^2/\text{NDF}$ :14278.6/6

All: -20.831+/-0.073  $\chi^2/\text{NDF}$ : 41494.2/12

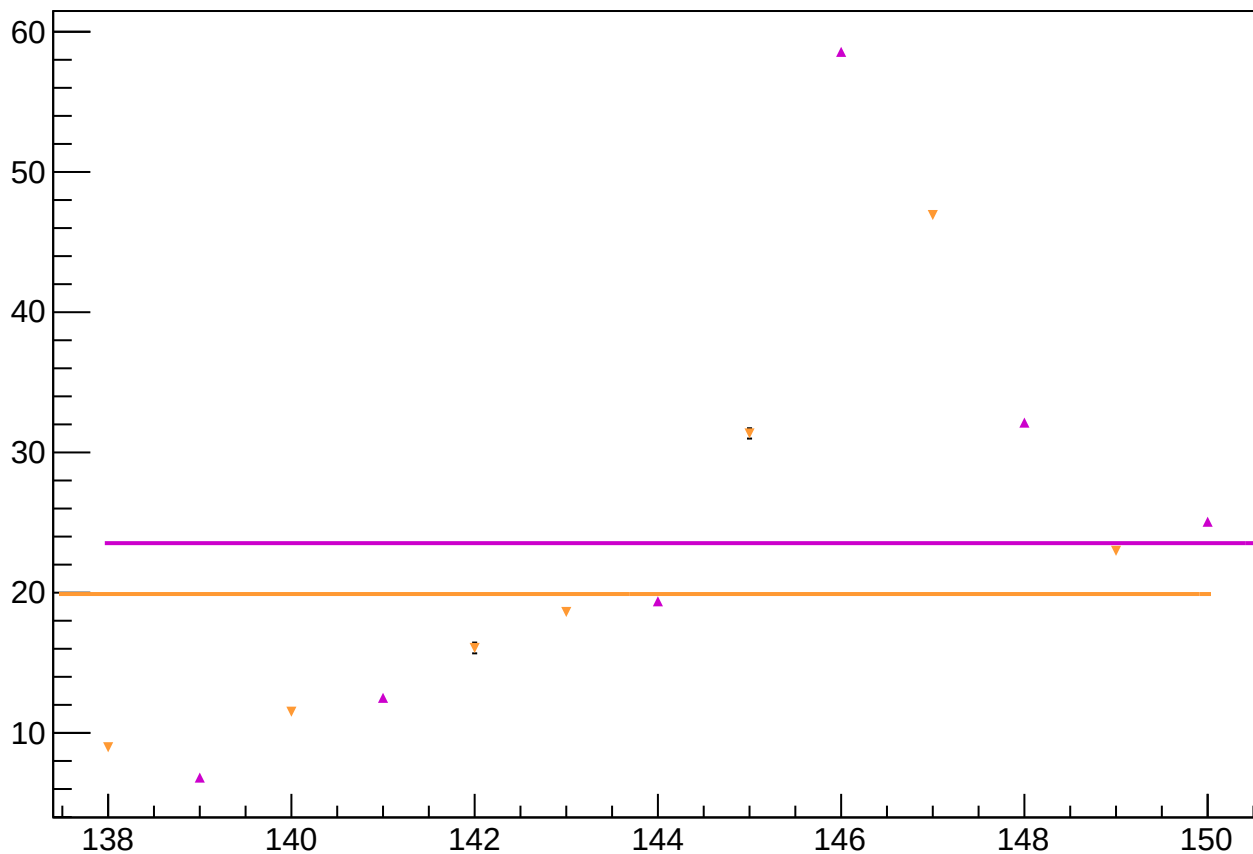
reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.177+/-0.075  $\chi^2/\text{NDF}$ :316.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.142+/-0.073  $\chi^2/\text{NDF}$ :759.5/5

Left: 0.159+/-0.052  $\chi^2/\text{NDF}$ : 1076.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.142+/-0.073  $\chi^2/\text{NDF}$ :759.5/5  
 Out: 0.177+/-0.075  $\chi^2/\text{NDF}$ :316.5/6  
 All: 0.159+/-0.052  $\chi^2/\text{NDF}$ : 1076.1/12

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected

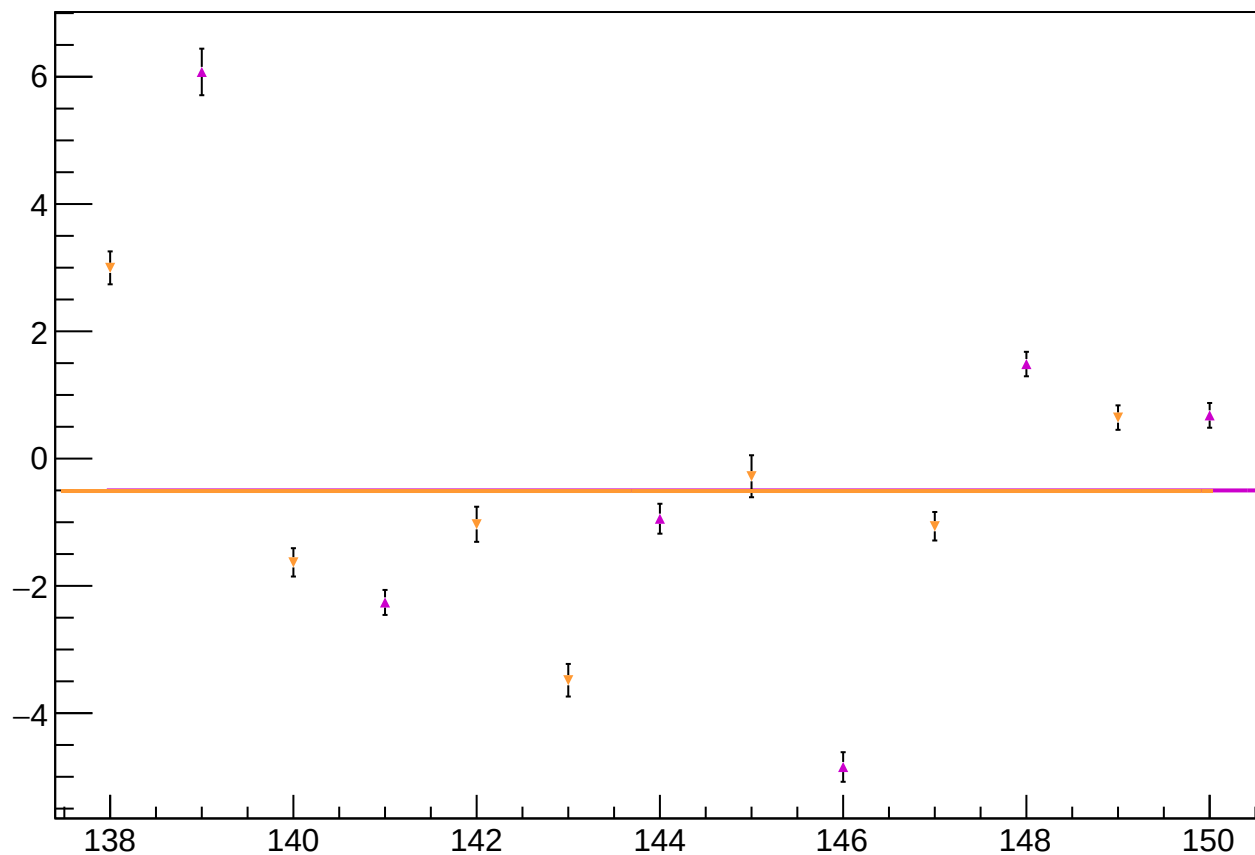


Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 19.904+/-0.105     $\chi^2/\text{NDF}$ :12115.4/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 23.532+/-0.104     $\chi^2/\text{NDF}$ :22508.7/5

Left: 21.735+/-0.074     $\chi^2/\text{NDF}$ : 35221.9/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 23.532+/-0.104     $\chi^2/\text{NDF}$ :22508.7/5  
 Out: 19.904+/-0.105     $\chi^2/\text{NDF}$ :12115.4/6  
 All: 21.735+/-0.074     $\chi^2/\text{NDF}$ : 35221.9/12



reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected

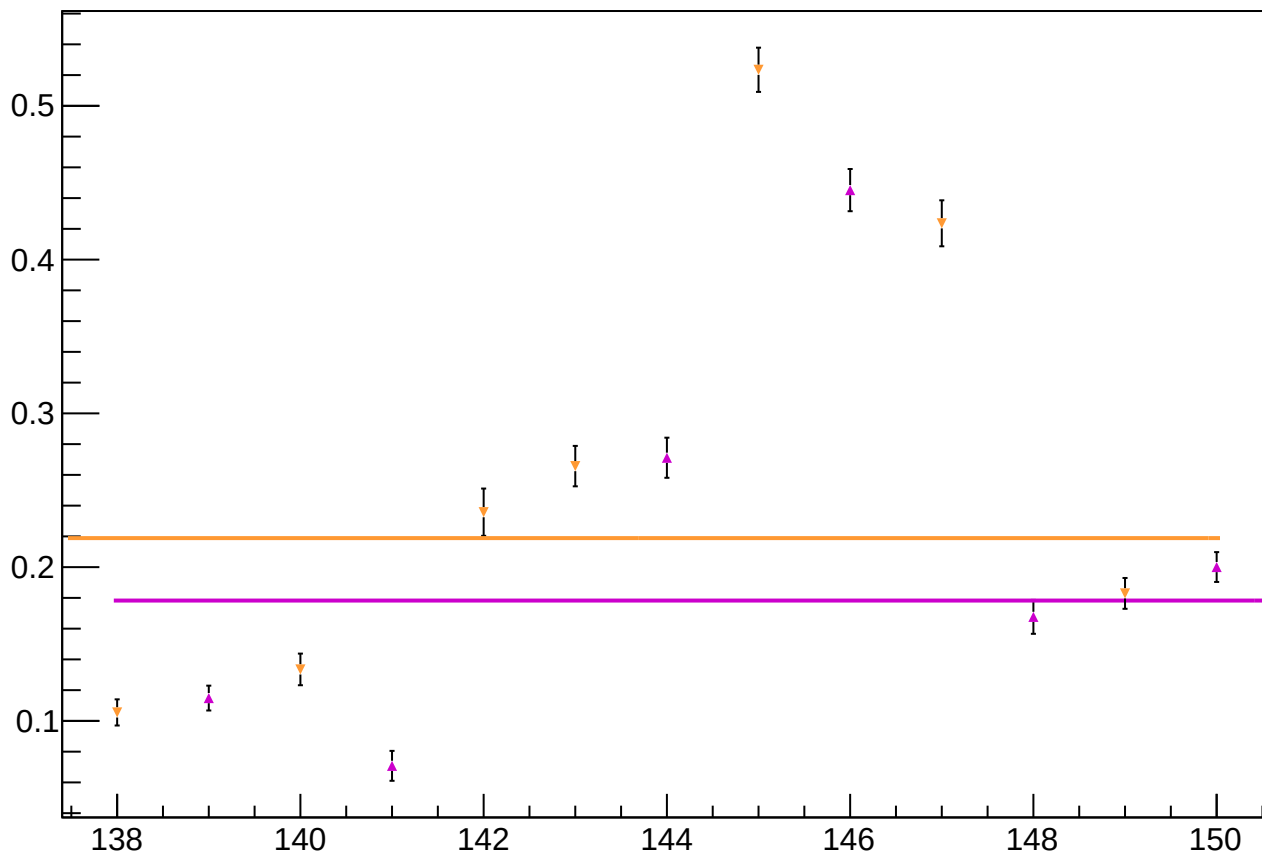


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.509+/-0.091  $\chi^2/\text{NDF}$ :390.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.500+/-0.090  $\chi^2/\text{NDF}$ :899.9/5

Left: -0.505+/-0.064  $\chi^2/\text{NDF}$ : 1290.0/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.500+/-0.090  $\chi^2/\text{NDF}$ :899.9/5  
 Out: -0.509+/-0.091  $\chi^2/\text{NDF}$ :390.1/6

All: -0.505+/-0.064  $\chi^2/\text{NDF}$ : 1290.0/12

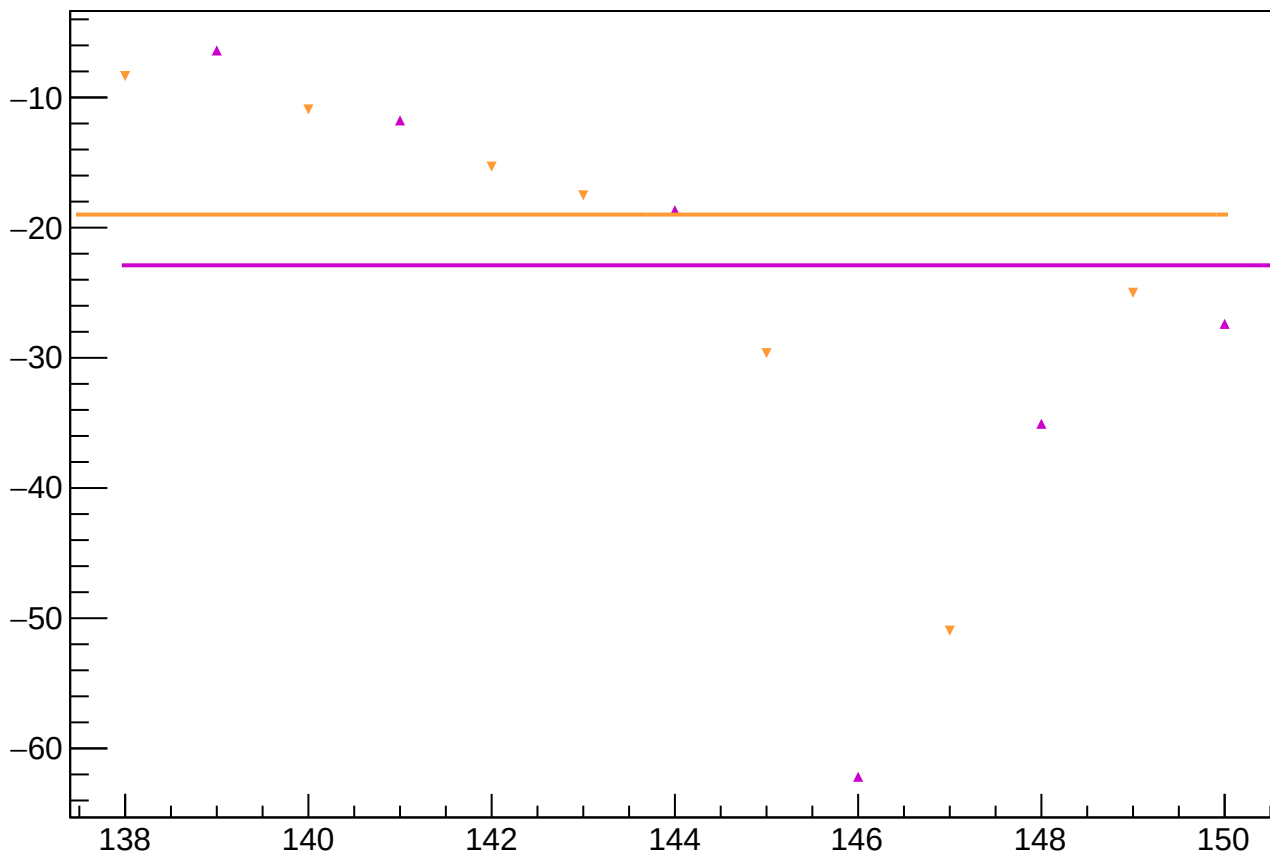
reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.219+/-0.004  $\chi^2/\text{NDF}$ : 909.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.178+/-0.004  $\chi^2/\text{NDF}$ : 618.6/5

Left: 0.198+/-0.003  $\chi^2/\text{NDF}$ : 1572.5/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.178+/-0.004  $\chi^2/\text{NDF}$ : 618.6/5  
 Out: 0.219+/-0.004  $\chi^2/\text{NDF}$ : 909.2/6  
 All: 0.198+/-0.003  $\chi^2/\text{NDF}$ : 1572.5/12

reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -18.994+/-0.103  $\chi^2/\text{NDF}$ :14293.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -22.893+/-0.104  $\chi^2/\text{NDF}$ :26541.5/5

Left: -20.924+/-0.073  $\chi^2/\text{NDF}$ : 41547.8/12

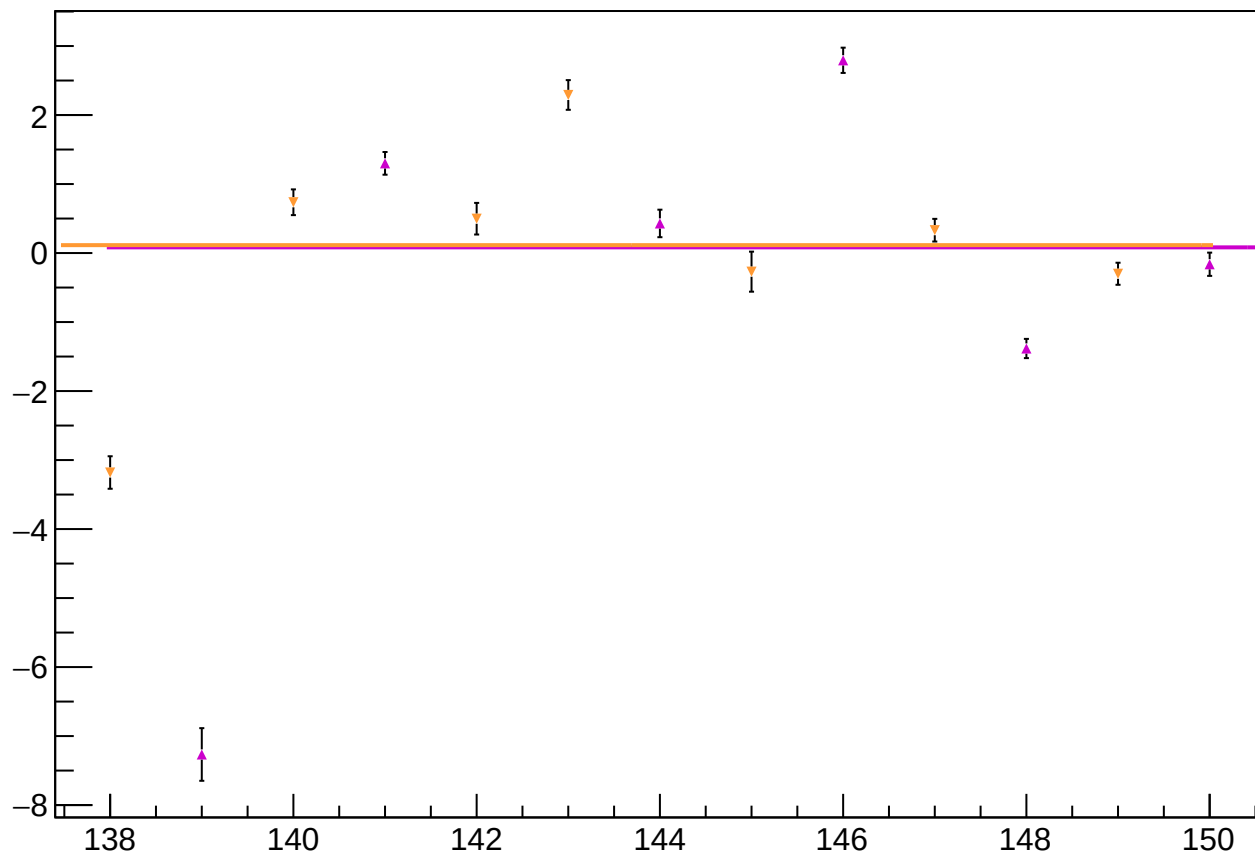
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -22.893+/-0.104  $\chi^2/\text{NDF}$ :26541.5/5

Out: -18.994+/-0.103  $\chi^2/\text{NDF}$ :14293.5/6

All: -20.924+/-0.073  $\chi^2/\text{NDF}$ : 41547.8/12

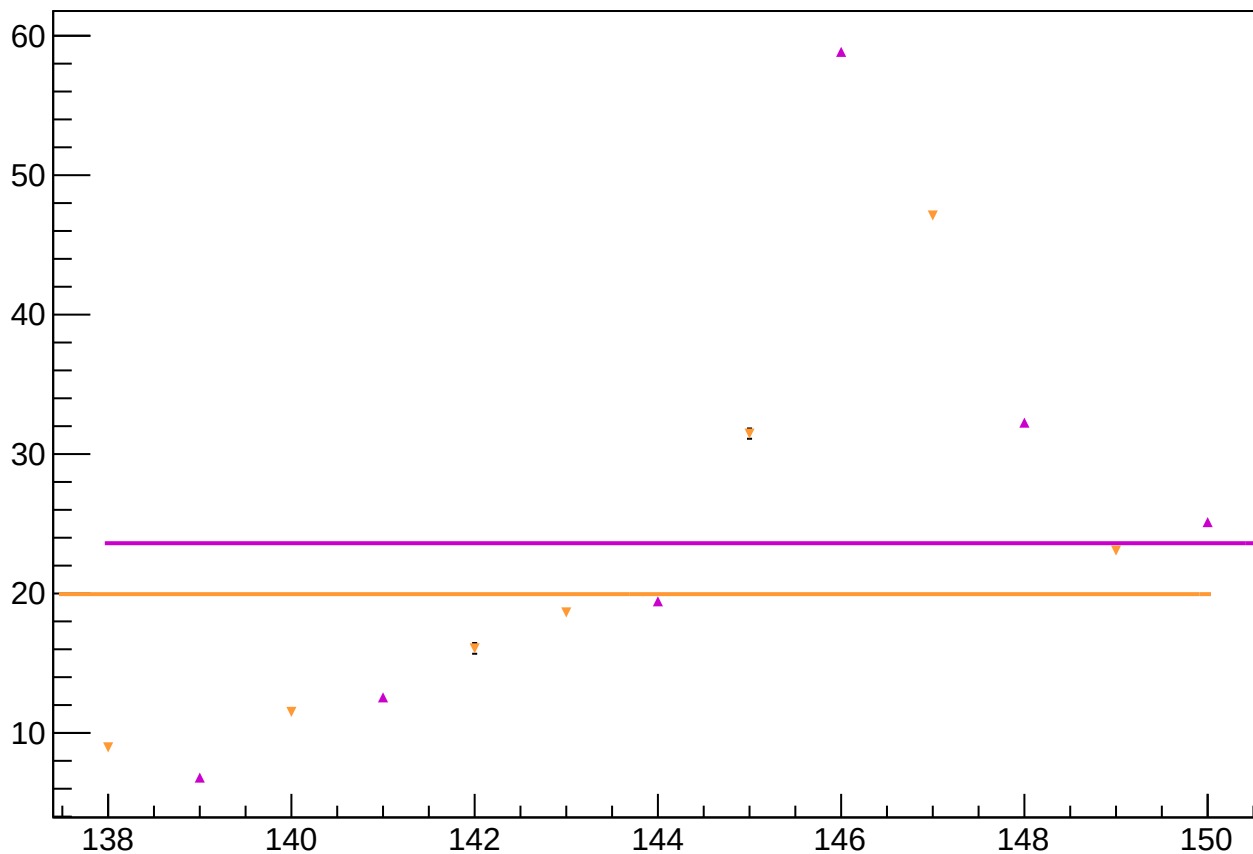
reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.114+/-0.075  $\chi^2/\text{NDF}$ :322.1/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.082+/-0.073  $\chi^2/\text{NDF}$ :760.9/5

Left: 0.098+/-0.053  $\chi^2/\text{NDF}$ : 1083.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.082+/-0.073  $\chi^2/\text{NDF}$ :760.9/5  
 Out: 0.114+/-0.075  $\chi^2/\text{NDF}$ :322.1/6  
 All: 0.098+/-0.053  $\chi^2/\text{NDF}$ : 1083.1/12

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 19.955+/-0.106  $\chi^2/\text{NDF}$ :12128.5/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 23.607+/-0.105  $\chi^2/\text{NDF}$ :22548.1/5

Left: 21.797+/-0.075  $\chi^2/\text{NDF}$ : 35277.2/12

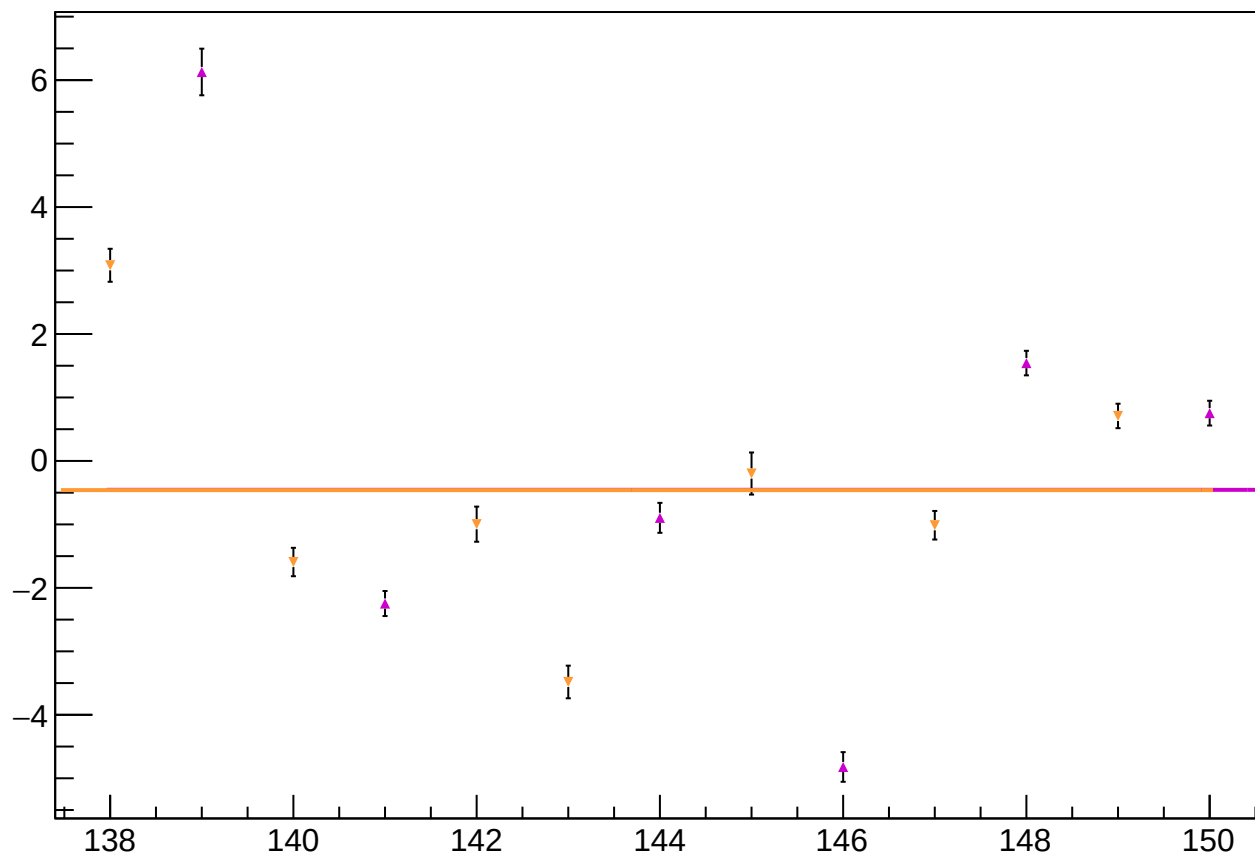
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 23.607+/-0.105  $\chi^2/\text{NDF}$ :22548.1/5

Out: 19.955+/-0.106  $\chi^2/\text{NDF}$ :12128.5/6

All: 21.797+/-0.075  $\chi^2/\text{NDF}$ : 35277.2/12

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.460+/-0.092  $\chi^2/\text{NDF}$ :396.8/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.455+/-0.090  $\chi^2/\text{NDF}$ :901.7/5

Left: -0.457+/-0.064  $\chi^2/\text{NDF}$ : 1298.5/12

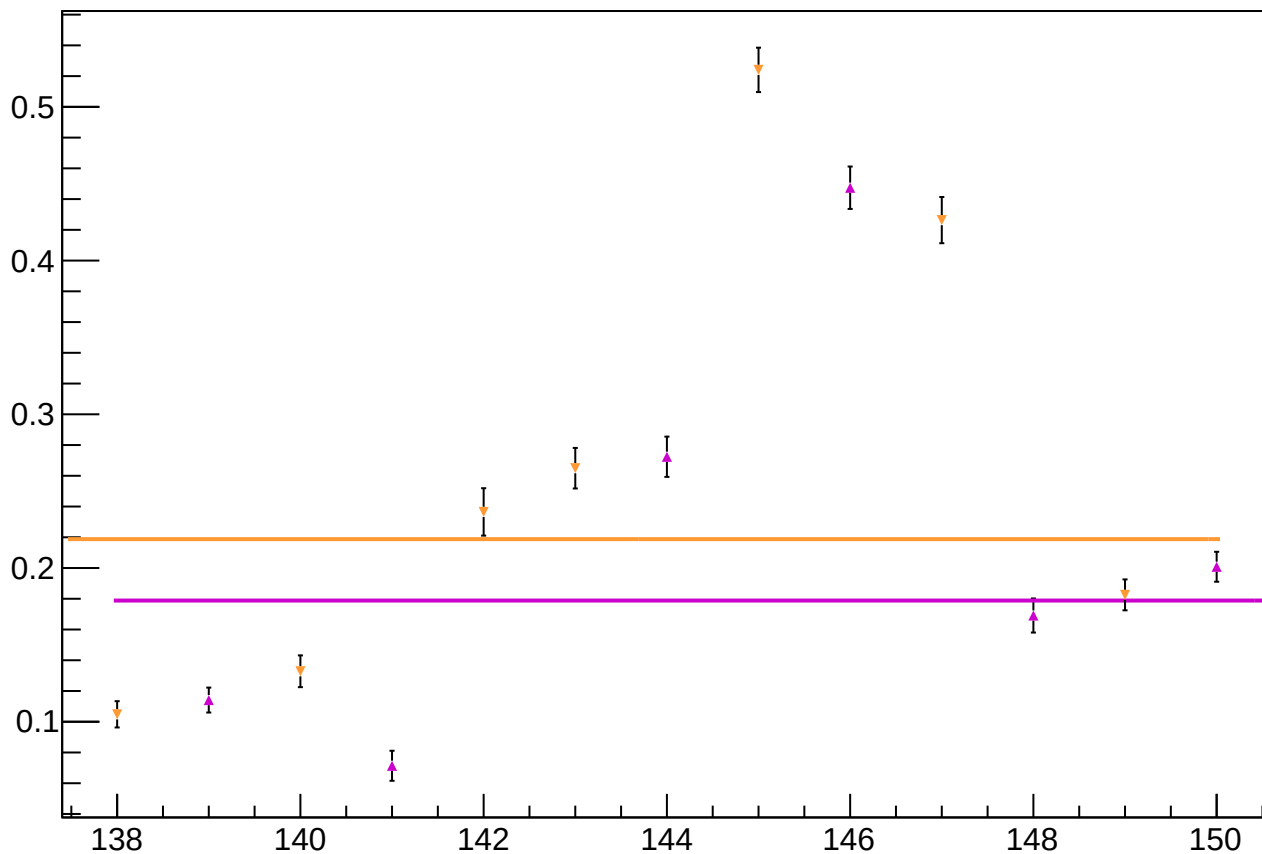
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.455+/-0.090  $\chi^2/\text{NDF}$ :901.7/5

Out: -0.460+/-0.092  $\chi^2/\text{NDF}$ :396.8/6

All: -0.457+/-0.064  $\chi^2/\text{NDF}$ : 1298.5/12

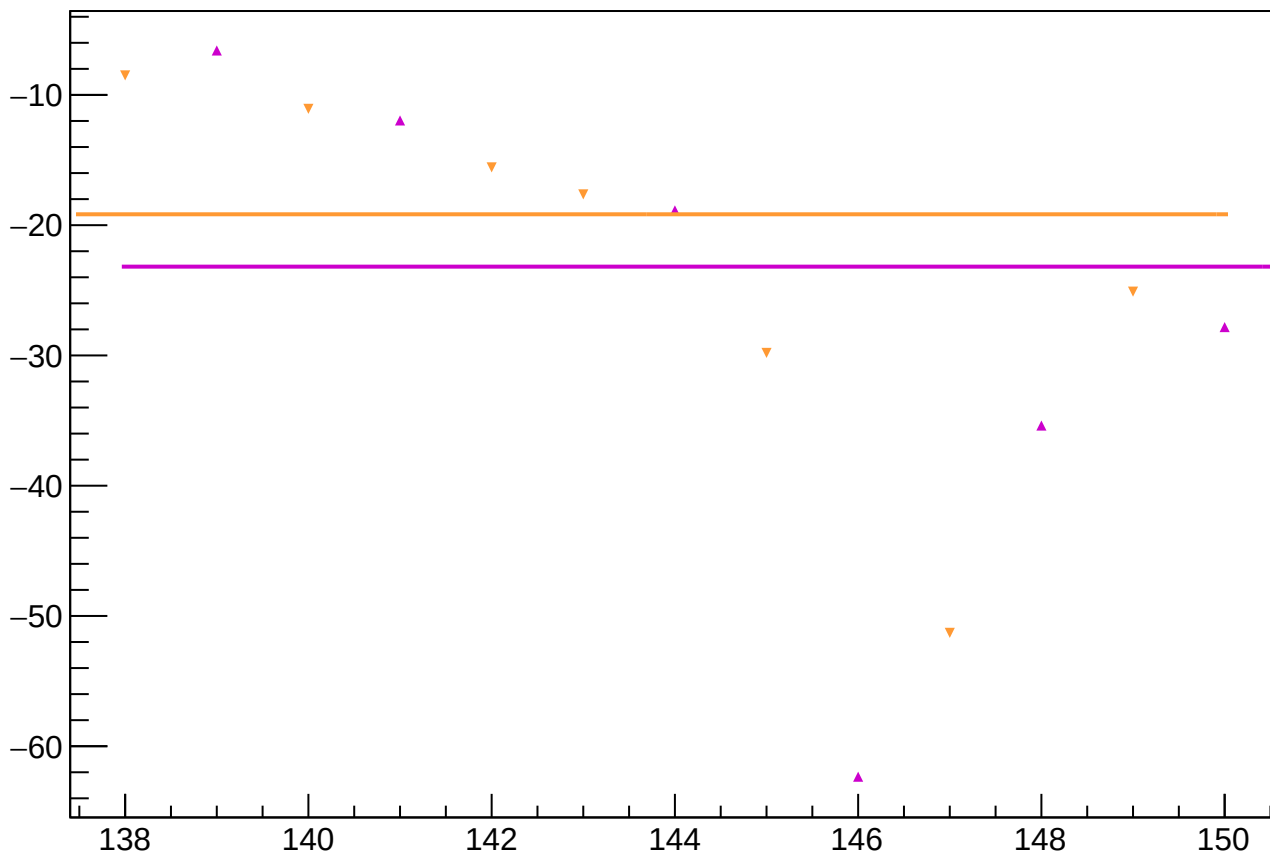
reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.219+/-0.004  $\chi^2/\text{NDF}$ :910.6/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.179+/-0.004  $\chi^2/\text{NDF}$ :620.9/5

Left: 0.198+/-0.003  $\chi^2/\text{NDF}$ : 1574.4/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.179+/-0.004  $\chi^2/\text{NDF}$ :620.9/5  
 Out: 0.219+/-0.004  $\chi^2/\text{NDF}$ :910.6/6  
 All: 0.198+/-0.003  $\chi^2/\text{NDF}$ : 1574.4/12

reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -19.164+/-0.104  $\chi^2/\text{NDF}$ :14149.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -23.183+/-0.105  $\chi^2/\text{NDF}$ :26161.8/5

Left: -21.150+/-0.074  $\chi^2/\text{NDF}$ : 41053.5/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

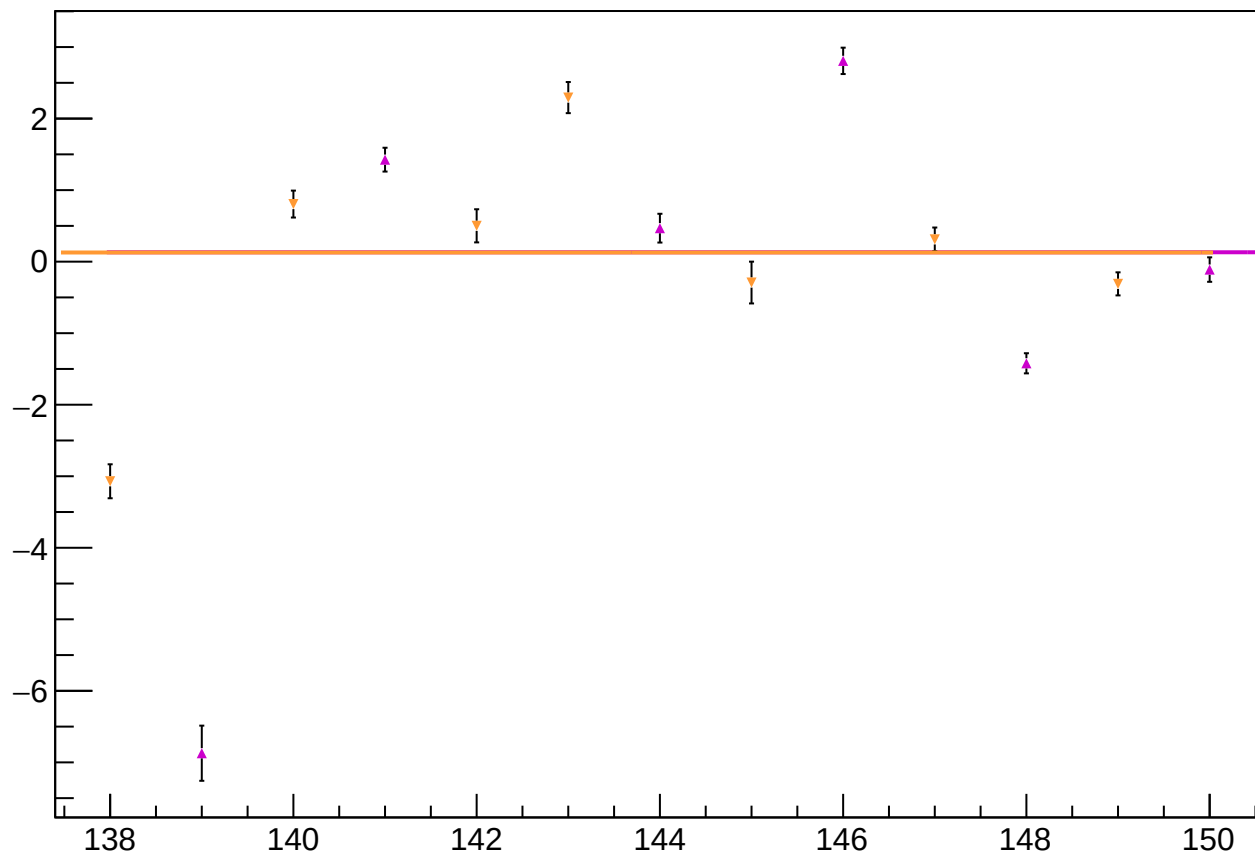
In: -23.183+/-0.105  $\chi^2/\text{NDF}$ :26161.8/5

Out: -19.164+/-0.104  $\chi^2/\text{NDF}$ :14149.0/6

All: -21.150+/-0.074  $\chi^2/\text{NDF}$ : 41053.5/12



reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.128+/-0.076  $\chi^2/\text{NDF}$ :306.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.131+/-0.074  $\chi^2/\text{NDF}$ :727.6/5

Left: 0.130+/-0.053  $\chi^2/\text{NDF}$ : 1034.2/12

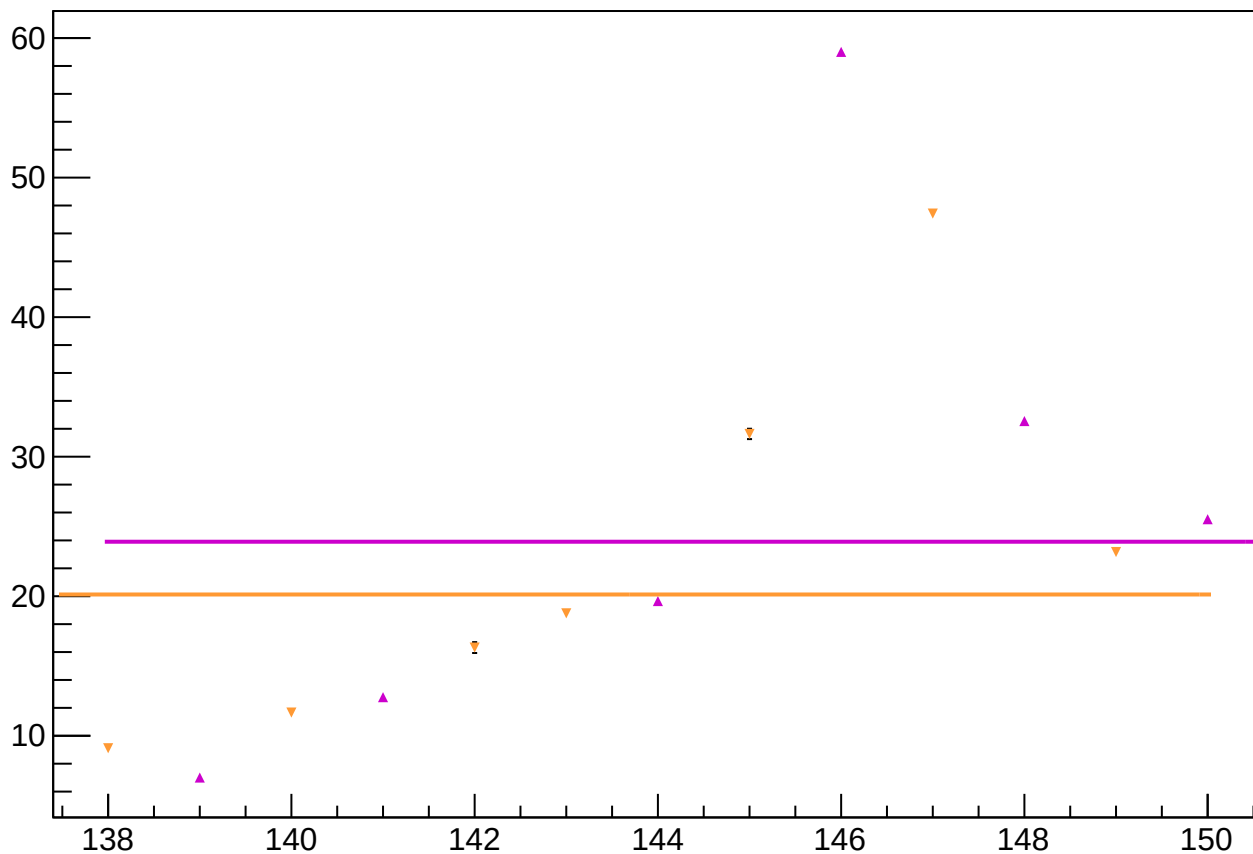
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.131+/-0.074  $\chi^2/\text{NDF}$ :727.6/5

Out: 0.128+/-0.076  $\chi^2/\text{NDF}$ :306.6/6

All: 0.130+/-0.053  $\chi^2/\text{NDF}$ : 1034.2/12

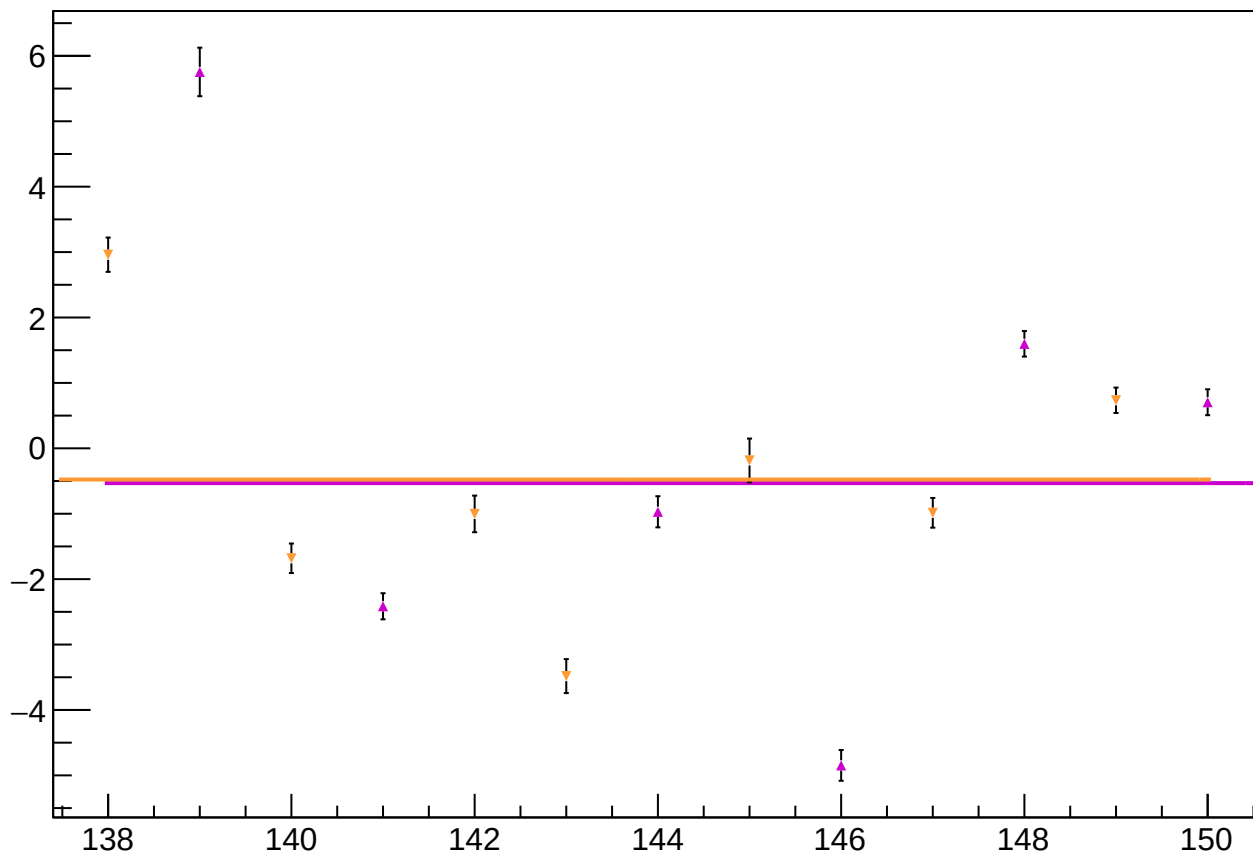
reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 20.125+/-0.107     $\chi^2/\text{NDF}$ :12004.7/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 23.906+/-0.106     $\chi^2/\text{NDF}$ :22189.1/5

Left: 22.029+/-0.075     $\chi^2/\text{NDF}$ : 34824.7/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 23.906+/-0.106     $\chi^2/\text{NDF}$ :22189.1/5  
 Out: 20.125+/-0.107     $\chi^2/\text{NDF}$ :12004.7/6  
 All: 22.029+/-0.075     $\chi^2/\text{NDF}$ : 34824.7/12

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



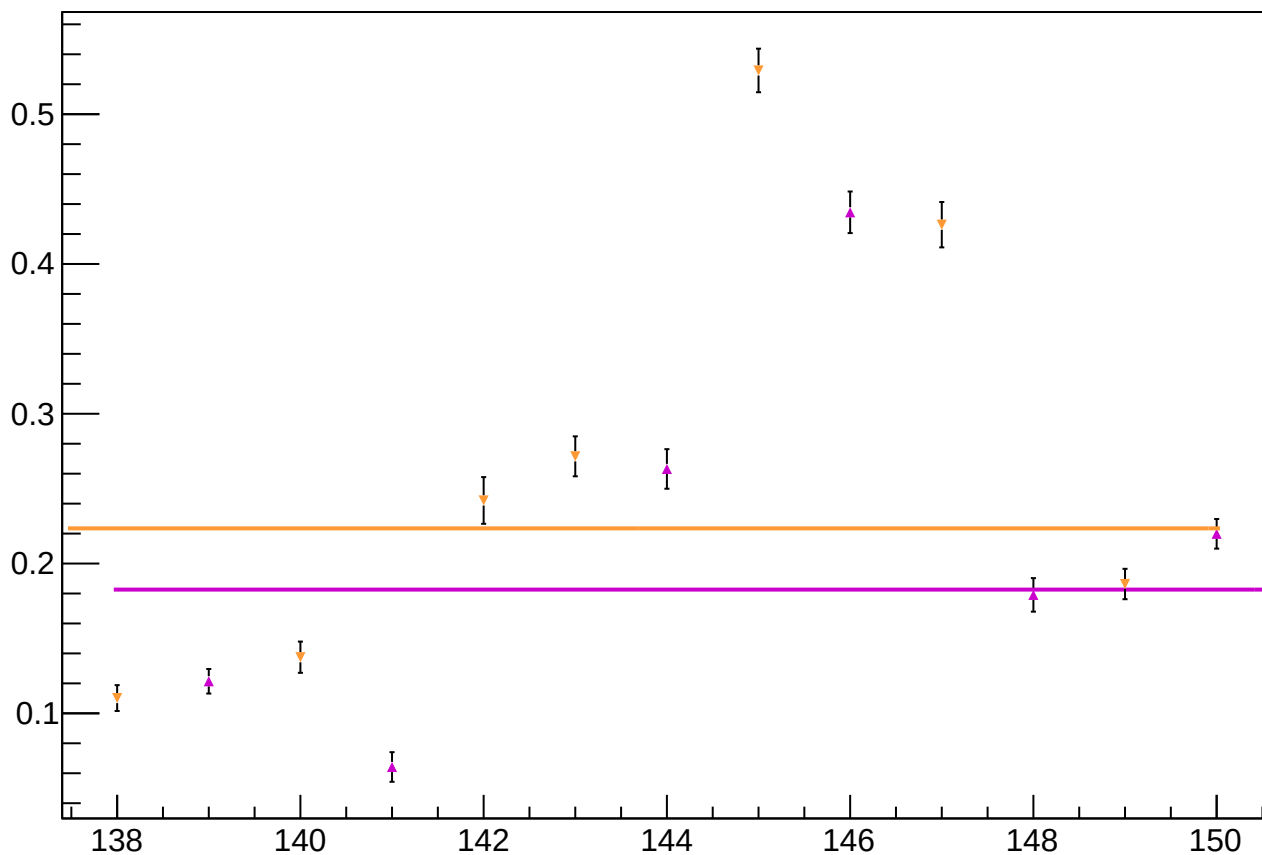
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.477+/-0.093  $\chi^2/\text{NDF}$ :382.2/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.532+/-0.091  $\chi^2/\text{NDF}$ :873.7/5

Left: -0.505+/-0.065  $\chi^2/\text{NDF}$ : 1256.1/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -0.532+/-0.091  $\chi^2/\text{NDF}$ :873.7/5  
 Out: -0.477+/-0.093  $\chi^2/\text{NDF}$ :382.2/6

All: -0.505+/-0.065  $\chi^2/\text{NDF}$ : 1256.1/12

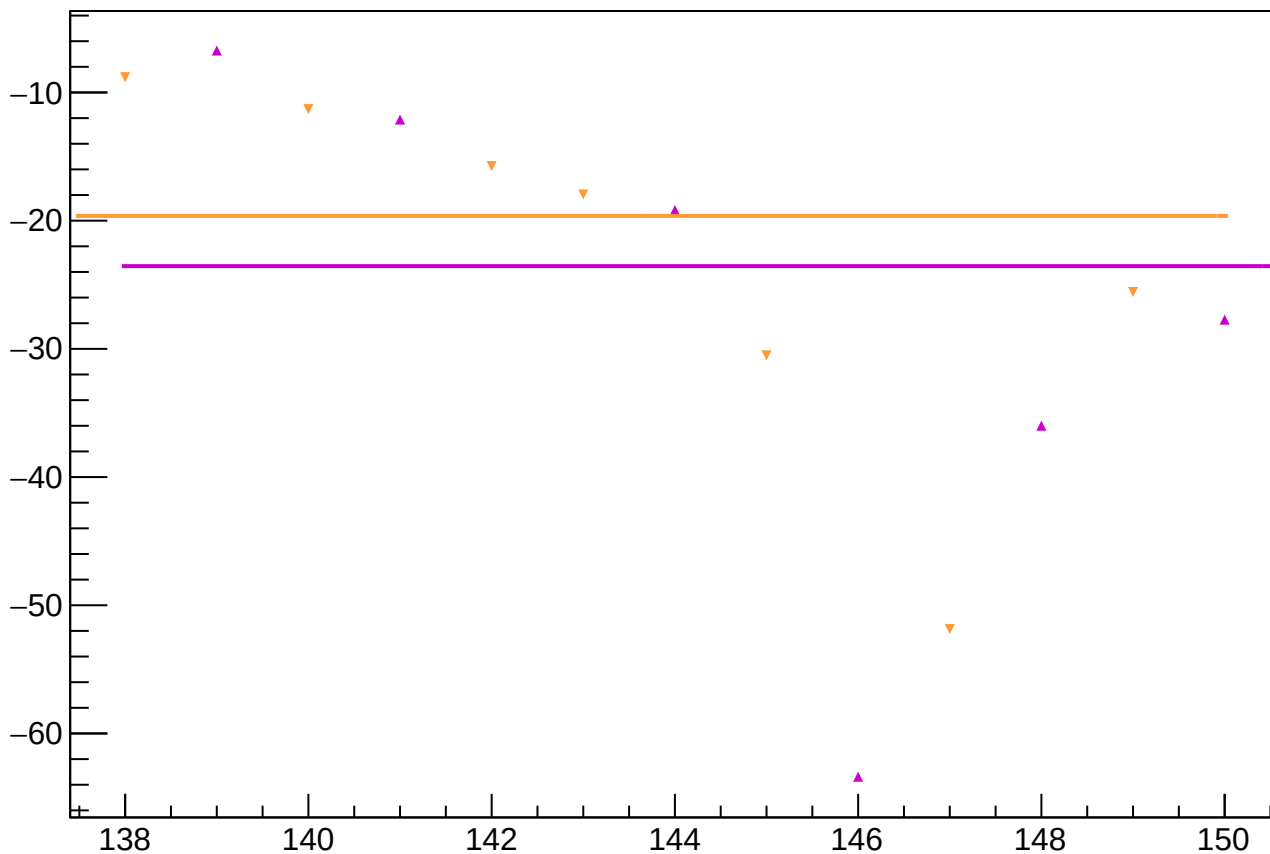
reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.224+/-0.004     $\chi^2/\text{NDF}$ :889.2/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.183+/-0.004     $\chi^2/\text{NDF}$ :580.1/5

Left: 0.202+/-0.003     $\chi^2/\text{NDF}$ : 1513.3/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.183+/-0.004     $\chi^2/\text{NDF}$ :580.1/5  
 Out: 0.224+/-0.004     $\chi^2/\text{NDF}$ :889.2/6  
 All: 0.202+/-0.003     $\chi^2/\text{NDF}$ : 1513.3/12

reg\_asym\_bcm\_dg\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -19.627+/-0.106  $\chi^2/\text{NDF}$ :13930.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -23.545+/-0.107  $\chi^2/\text{NDF}$ :26052.8/5

Left: -21.572+/-0.075  $\chi^2/\text{NDF}$ : 40664.2/12

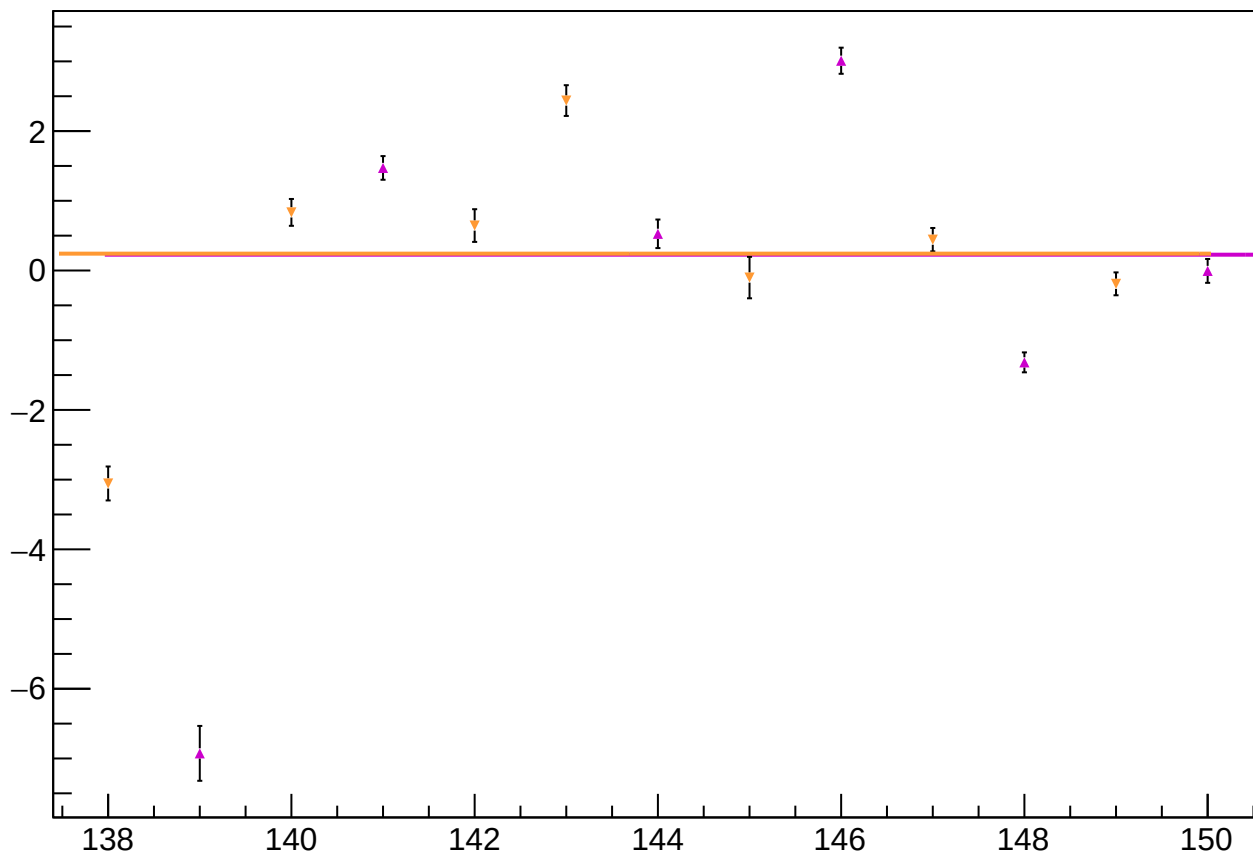
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -23.545+/-0.107  $\chi^2/\text{NDF}$ :26052.8/5

Out: -19.627+/-0.106  $\chi^2/\text{NDF}$ :13930.0/6

All: -21.572+/-0.075  $\chi^2/\text{NDF}$ : 40664.2/12

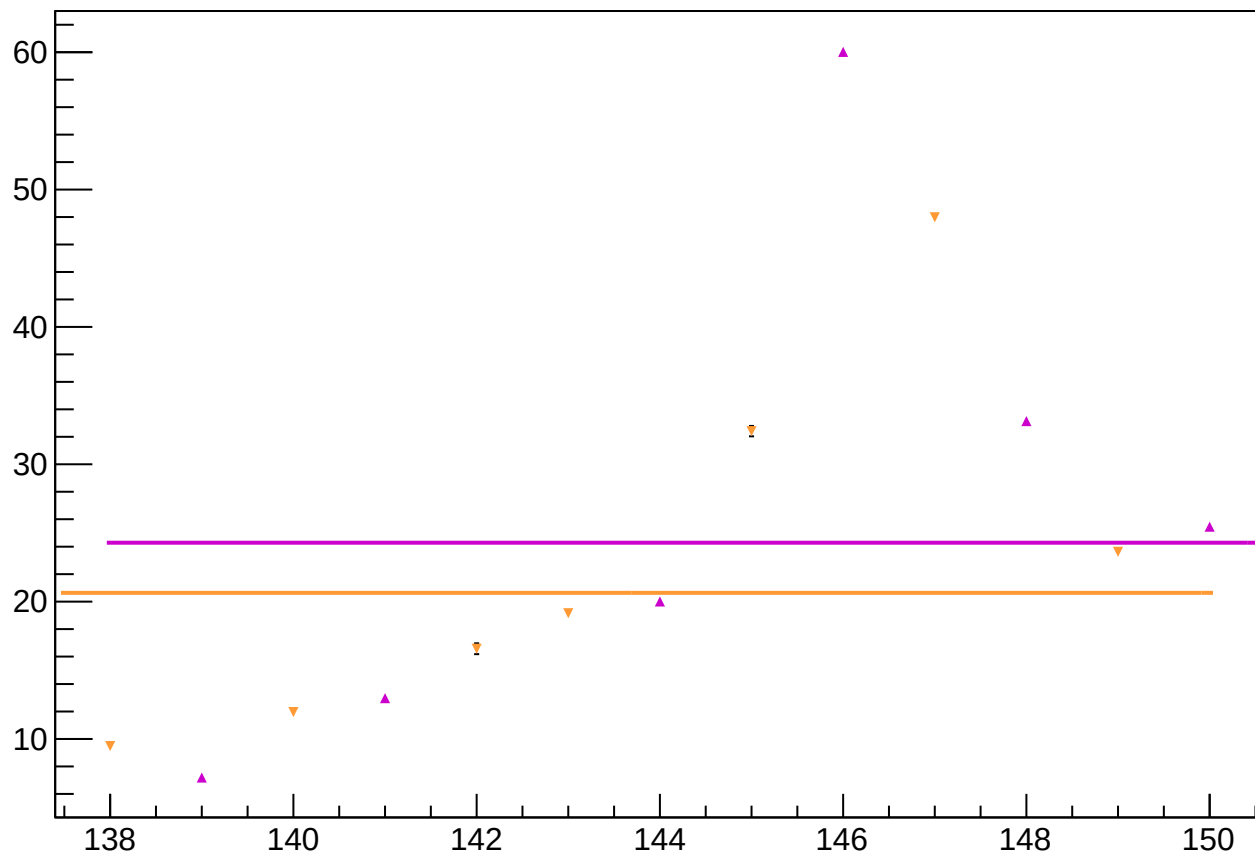
reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.242+/-0.077  $\chi^2/\text{NDF}$ :304.5/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.227+/-0.075  $\chi^2/\text{NDF}$ :725.3/5

Left: 0.234+/-0.054  $\chi^2/\text{NDF}$ : 1029.9/12  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.227+/-0.075  $\chi^2/\text{NDF}$ :725.3/5  
 Out: 0.242+/-0.077  $\chi^2/\text{NDF}$ :304.5/6  
 All: 0.234+/-0.054  $\chi^2/\text{NDF}$ : 1029.9/12

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 20.641+/-0.109  $\chi^2/\text{NDF}$ :11791.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 24.290+/-0.108  $\chi^2/\text{NDF}$ :22119.3/5

Left: 22.487+/-0.077  $\chi^2/\text{NDF}$ : 34477.9/12

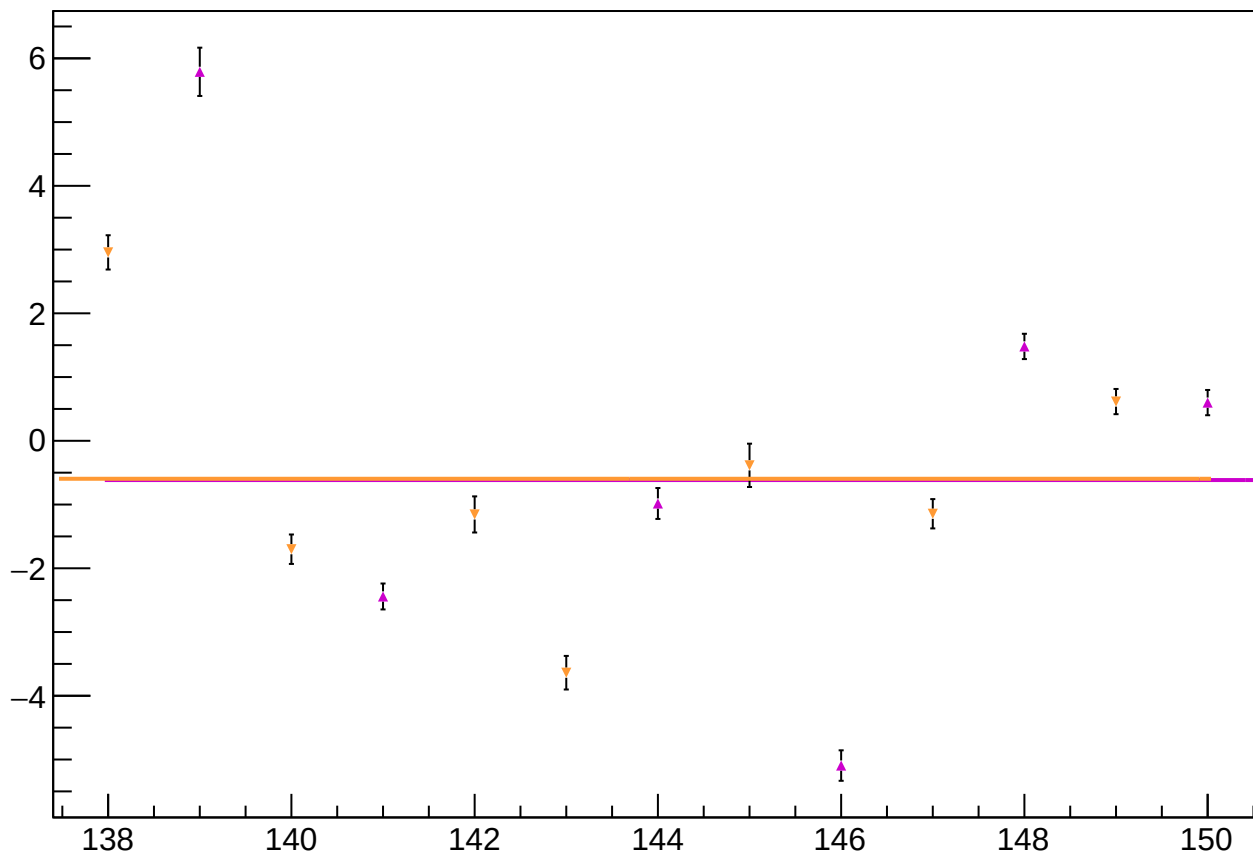
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 24.290+/-0.108  $\chi^2/\text{NDF}$ :22119.3/5

Out: 20.641+/-0.109  $\chi^2/\text{NDF}$ :11791.0/6

All: 22.487+/-0.077  $\chi^2/\text{NDF}$ : 34477.9/12

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.596+/-0.094  $\chi^2/\text{NDF}$ :378.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.616+/-0.093  $\chi^2/\text{NDF}$ :868.8/5

Left: -0.606+/-0.066  $\chi^2/\text{NDF}$ : 1246.9/12

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

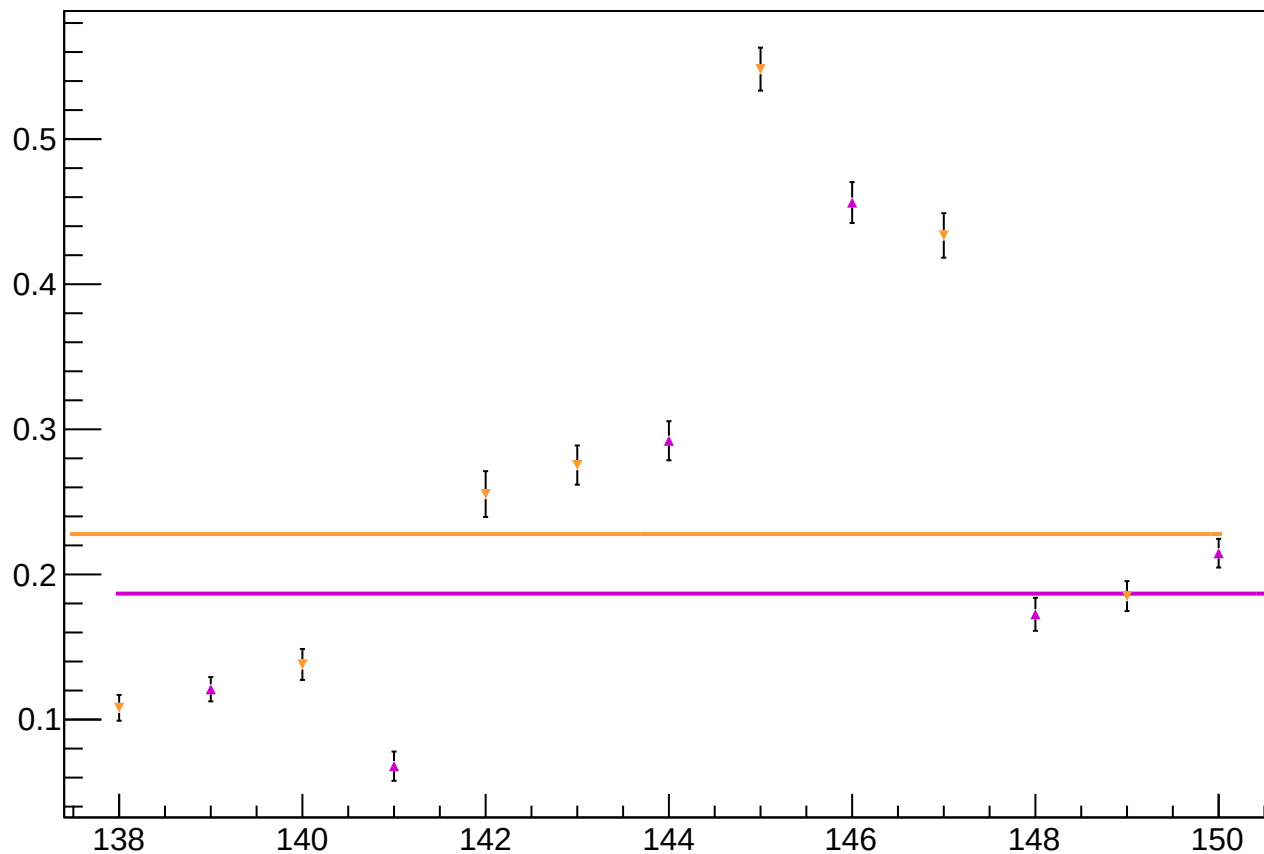
In: -0.616+/-0.093  $\chi^2/\text{NDF}$ :868.8/5

Out: -0.596+/-0.094  $\chi^2/\text{NDF}$ :378.0/6

All: -0.606+/-0.066  $\chi^2/\text{NDF}$ : 1246.9/12



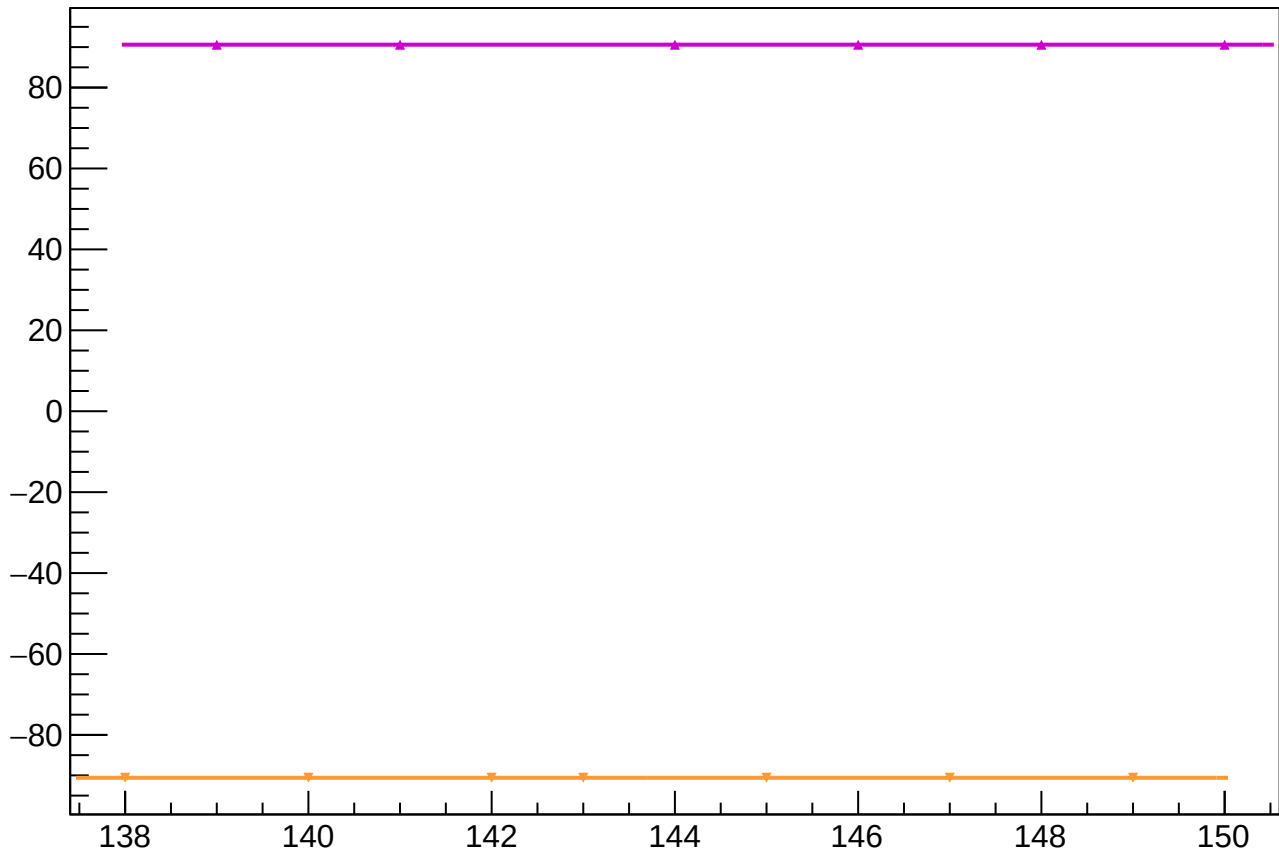
reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.228+/-0.005     $\chi^2/\text{NDF}$ :934.2/6  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.187+/-0.004     $\chi^2/\text{NDF}$ :637.3/5

Left: 0.207+/-0.003     $\chi^2/\text{NDF}$ : 1614.3/12  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.187+/-0.004     $\chi^2/\text{NDF}$ :637.3/5  
 Out: 0.228+/-0.005     $\chi^2/\text{NDF}$ :934.2/6  
 All: 0.207+/-0.003     $\chi^2/\text{NDF}$ : 1614.3/12

# VWienAngle\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -90.599+/-0.000  $\chi^2/\text{NDF}$ :3052046.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 90.599+/-0.000  $\chi^2/\text{NDF}$ :480839.1/5

Left: -0.886+/-0.000  $\chi^2/\text{NDF}$ : 83880105574435466

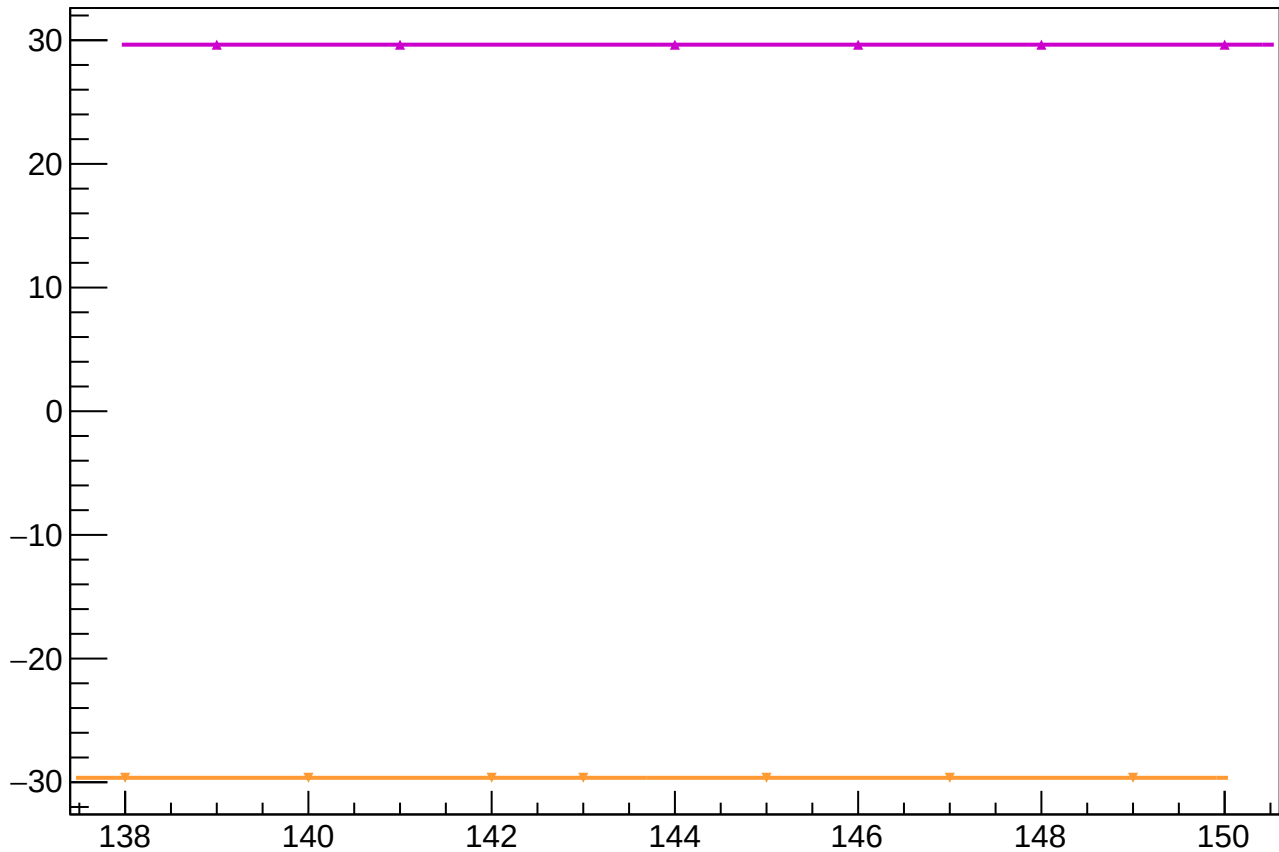
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 90.599+/-0.000  $\chi^2/\text{NDF}$ :480839.1/5

Out: -90.599+/-0.000  $\chi^2/\text{NDF}$ :3052046.0/6

All: -0.886+/-0.000  $\chi^2/\text{NDF}$ : 8388010557443

# HWienAngle\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -29.641+/-0.000  $\chi^2/\text{NDF}$ :156535.2/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 29.641+/-0.000  $\chi^2/\text{NDF}$ :15701.5/5

Left: -0.290+/-0.000  $\chi^2/\text{NDF}$ : 89781388406391779

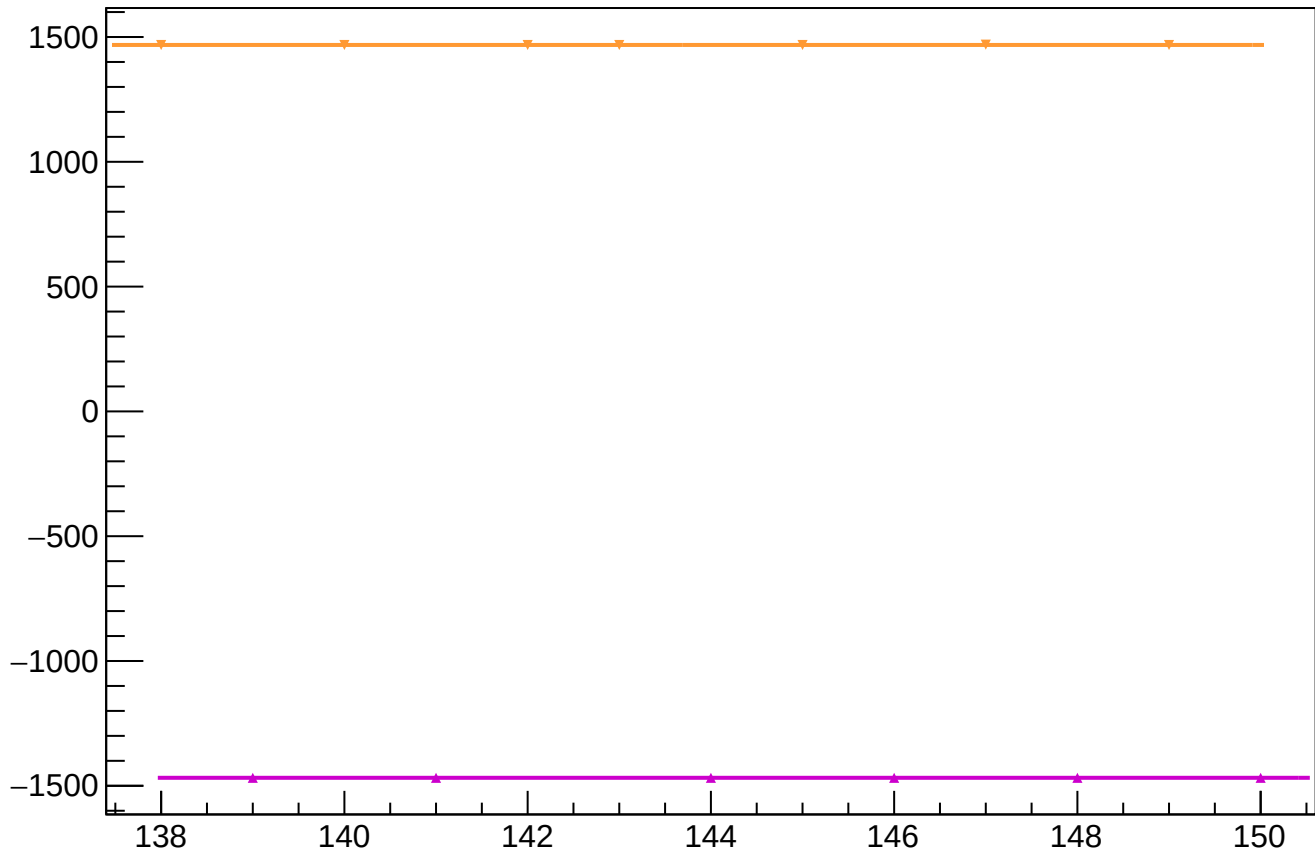
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 29.641+/-0.000  $\chi^2/\text{NDF}$ :15701.5/5

Out: -29.641+/-0.000  $\chi^2/\text{NDF}$ :156535.2/6

All: -0.290+/-0.000  $\chi^2/\text{NDF}$ : 8978138840639

# psub\_pl\_pos\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1468.179+/-0.000  $\chi^2/\text{NDF}$ :115751024858577901145132124602368.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 14.465+/-0.000  $\chi^2/\text{NDF}$ : 2202461506671408

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

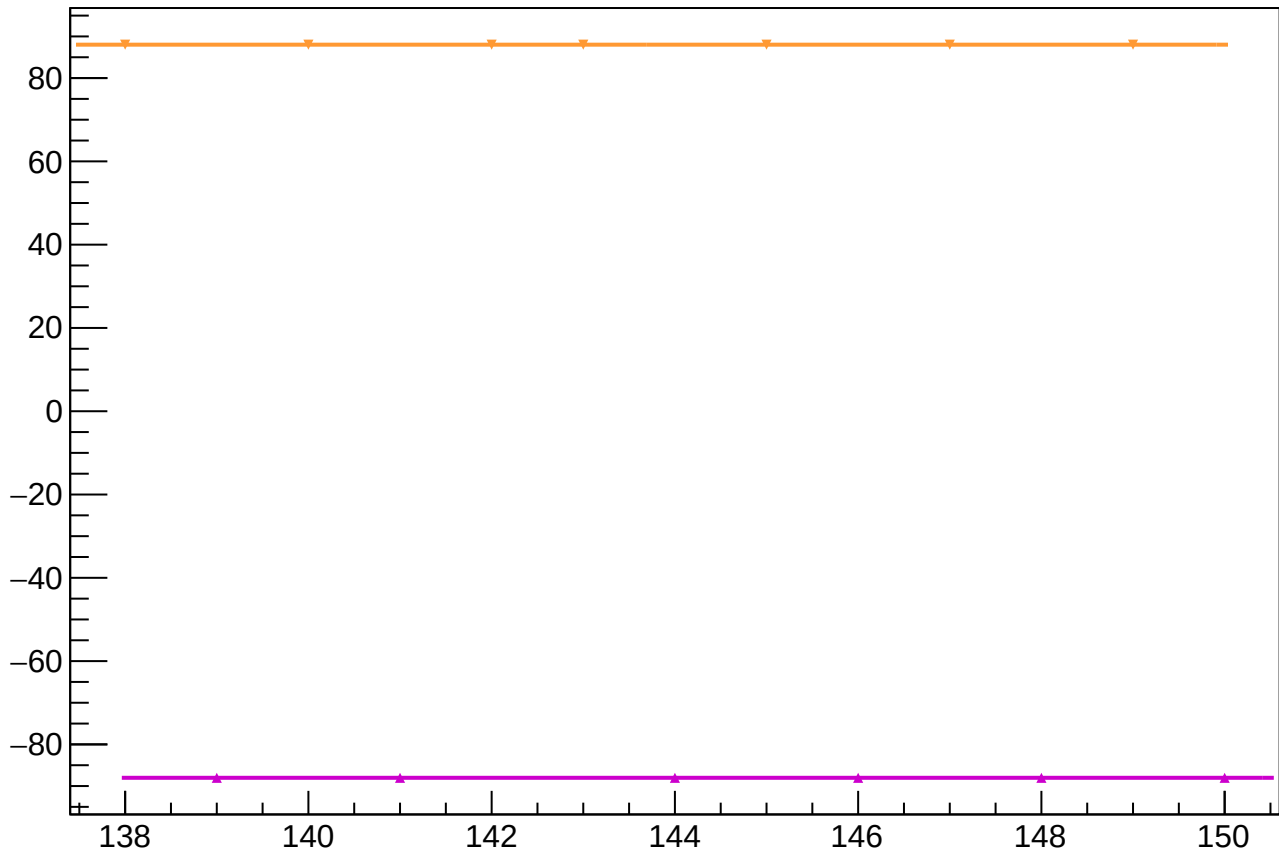
In: -1467.979+/-0.000  $\chi^2/\text{NDF}$ :31329465.7/5

Out: 1468.179+/-0.000  $\chi^2/\text{NDF}$ :115751024858577

Left In: -1467.979+/-0.000  $\chi^2/\text{NDF}$ :31329465.7/5

All: 14.465+/-0.000  $\chi^2/\text{NDF}$ : 2202461506671

# Phi\_FG\_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 88.021 $\pm$ 0.000  $\chi^2/\text{NDF}$ :2716003.9/6

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -88.021 $\pm$ 0.000  $\chi^2/\text{NDF}$ :481243.0/5

Left: 0.861 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 791733426403445580

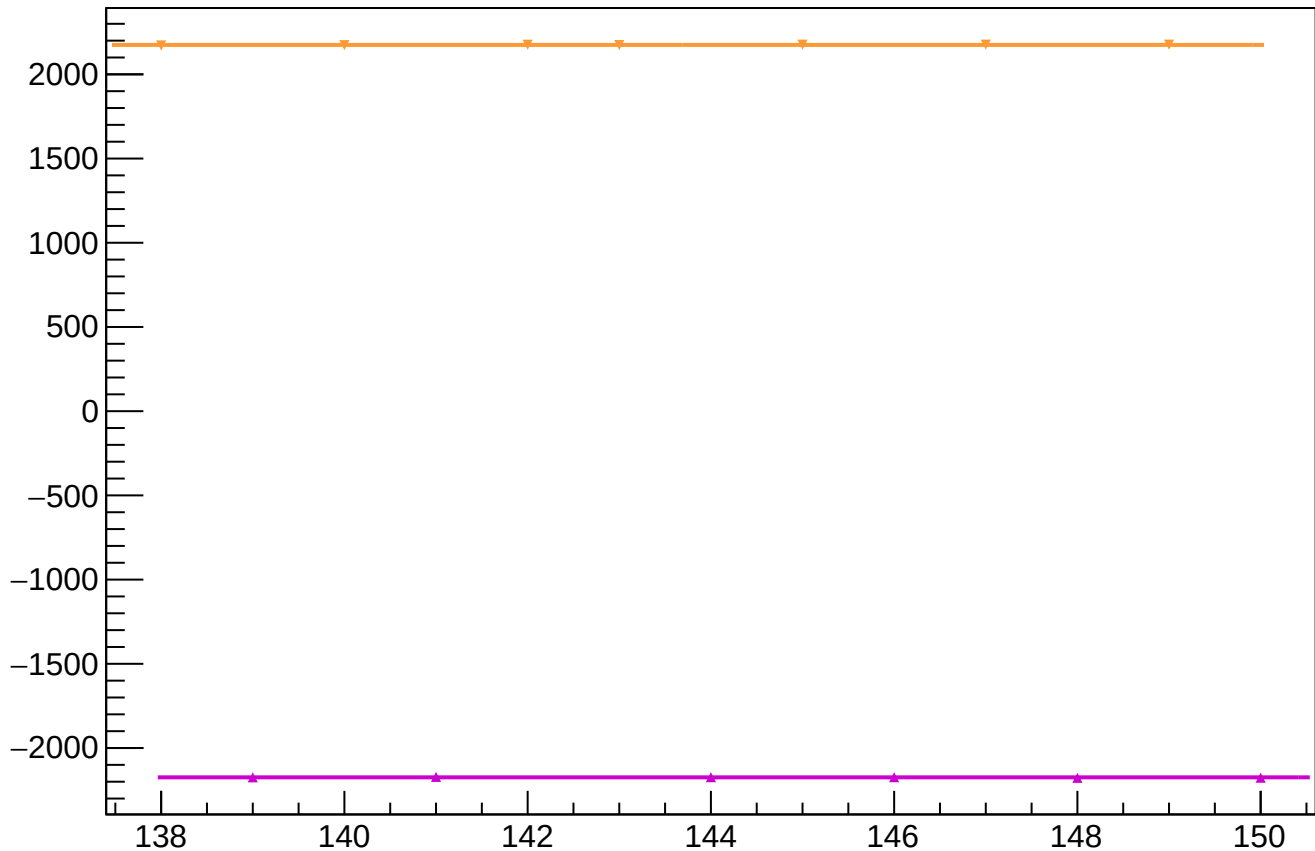
Right: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -88.021 $\pm$ 0.000  $\chi^2/\text{NDF}$ :481243.0/5

Out: 88.021 $\pm$ 0.000  $\chi^2/\text{NDF}$ :2716003.9/6

All: 0.861 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 791733426403445580

# HALLA\_p\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2174.646+/-0.000  $\chi^2/\text{NDF}$ : 1585040875574044922523680298237952.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 21.554+/-0.000  $\chi^2/\text{NDF}$ : 48314275499642022

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

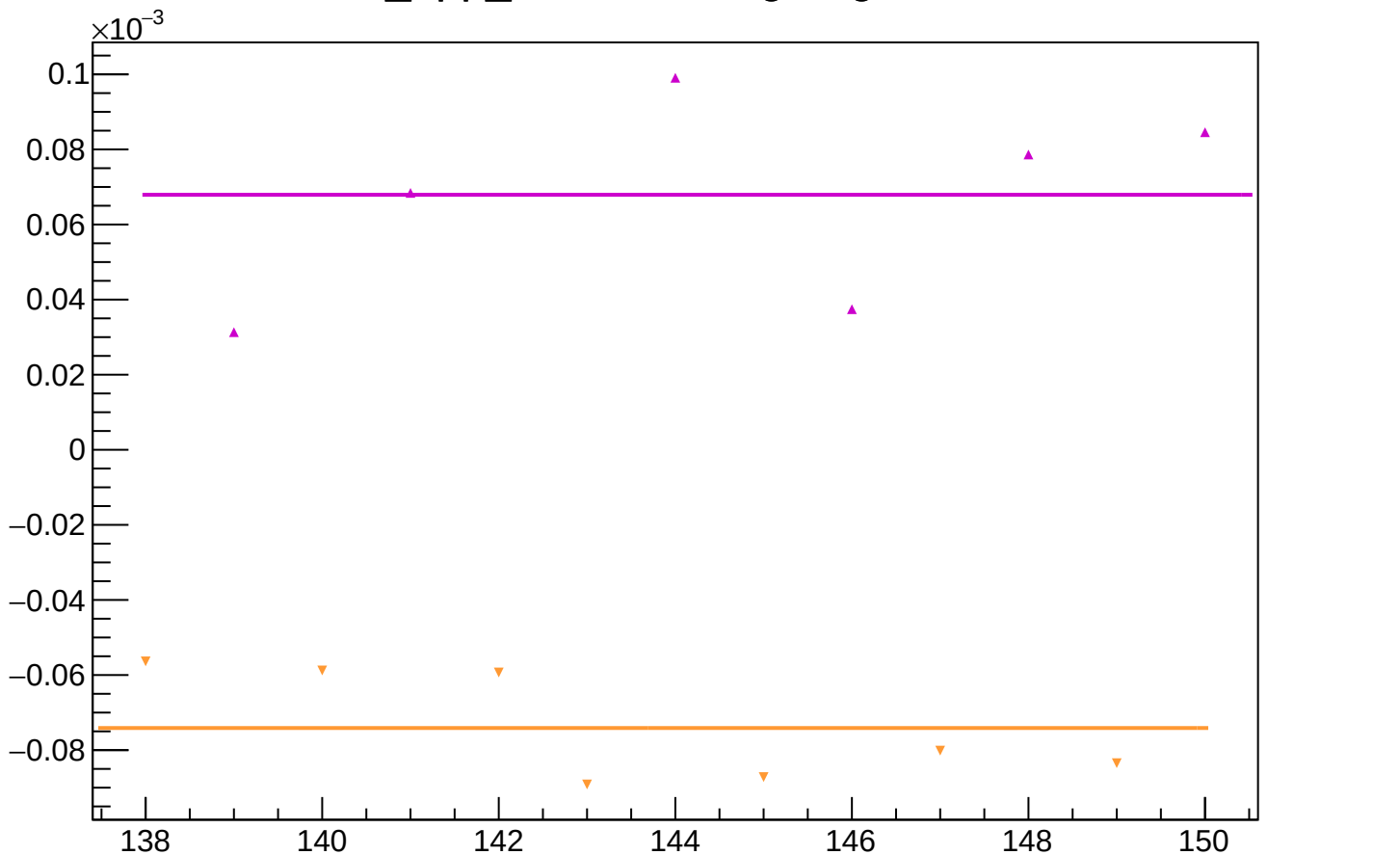
In: -2174.089+/-0.000  $\chi^2/\text{NDF}$ : 182664261588306

Out: 2174.646+/-0.000  $\chi^2/\text{NDF}$ : 1585040875574044922523680298237952.0/6

Left In: -2174.089+/-0.000  $\chi^2/\text{NDF}$ : 1826642615883062304123294840782848.0/5

All: 21.554+/-0.000  $\chi^2/\text{NDF}$ : 4831427549964

# HALLA\_dpp\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 93069744622138931806208.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 297557749286893397213184.0/5

Left: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 55441093656028859

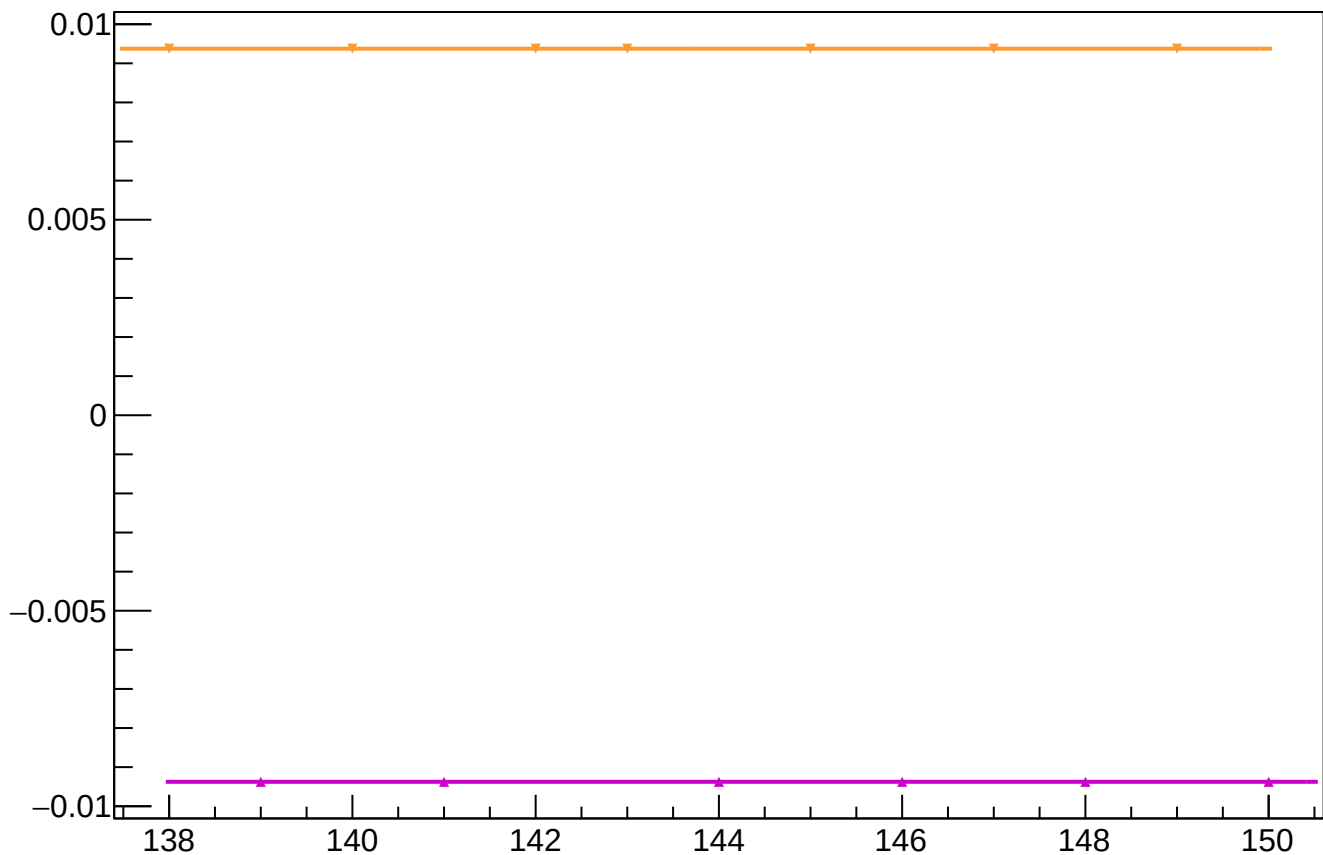
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2975577492868933972

Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 93069744622138931

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5544109365602

# MQ171LM\_mean vs Slug, Sign Corrected

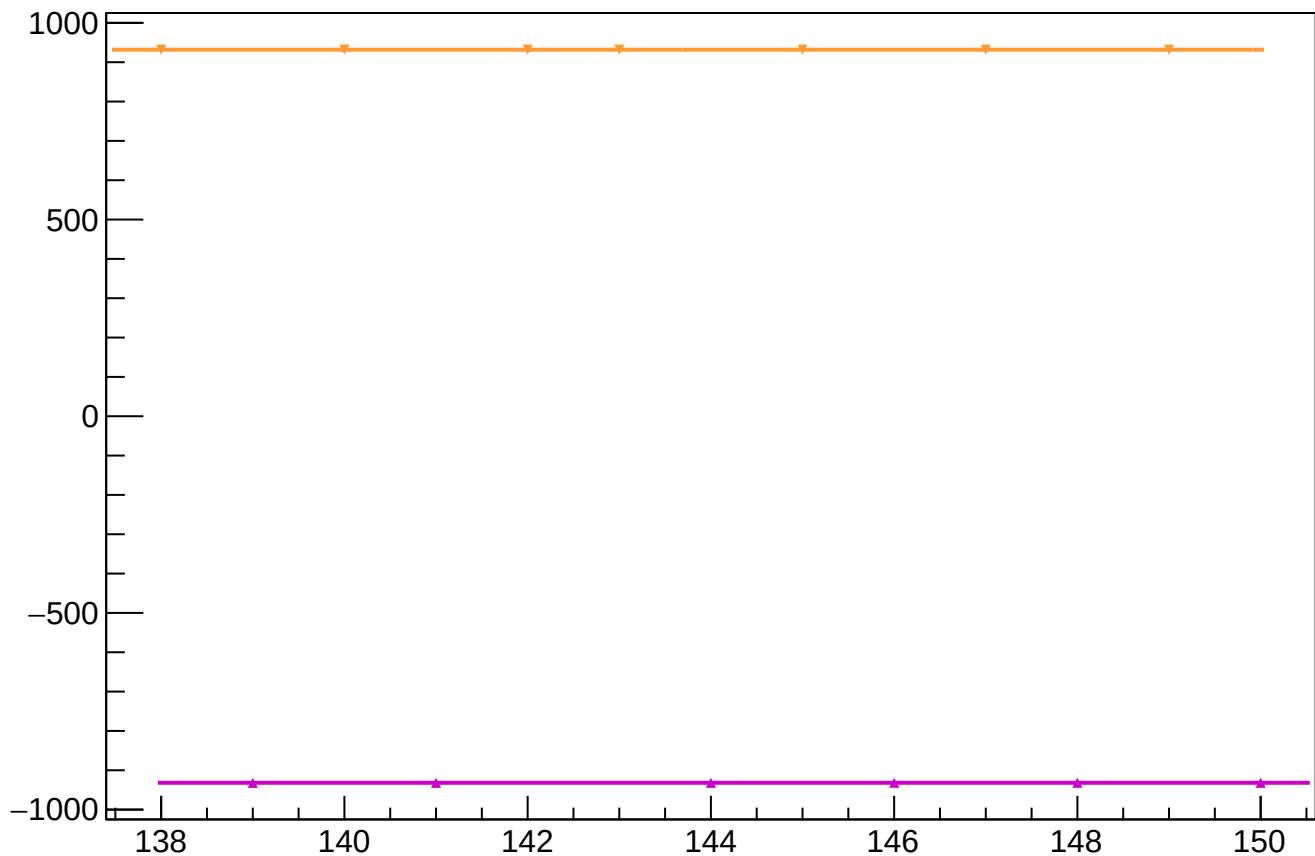


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/5

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 898156188845398671  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/5  
Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/6  
All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 898156188845398671



# HacL\_Q2\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 931.825+/-0.000  $\chi^2/\text{NDF}$ :1926215169791693797859398778880.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 9.128+/-0.000  $\chi^2/\text{NDF}$ : 887295079881877580.0/5

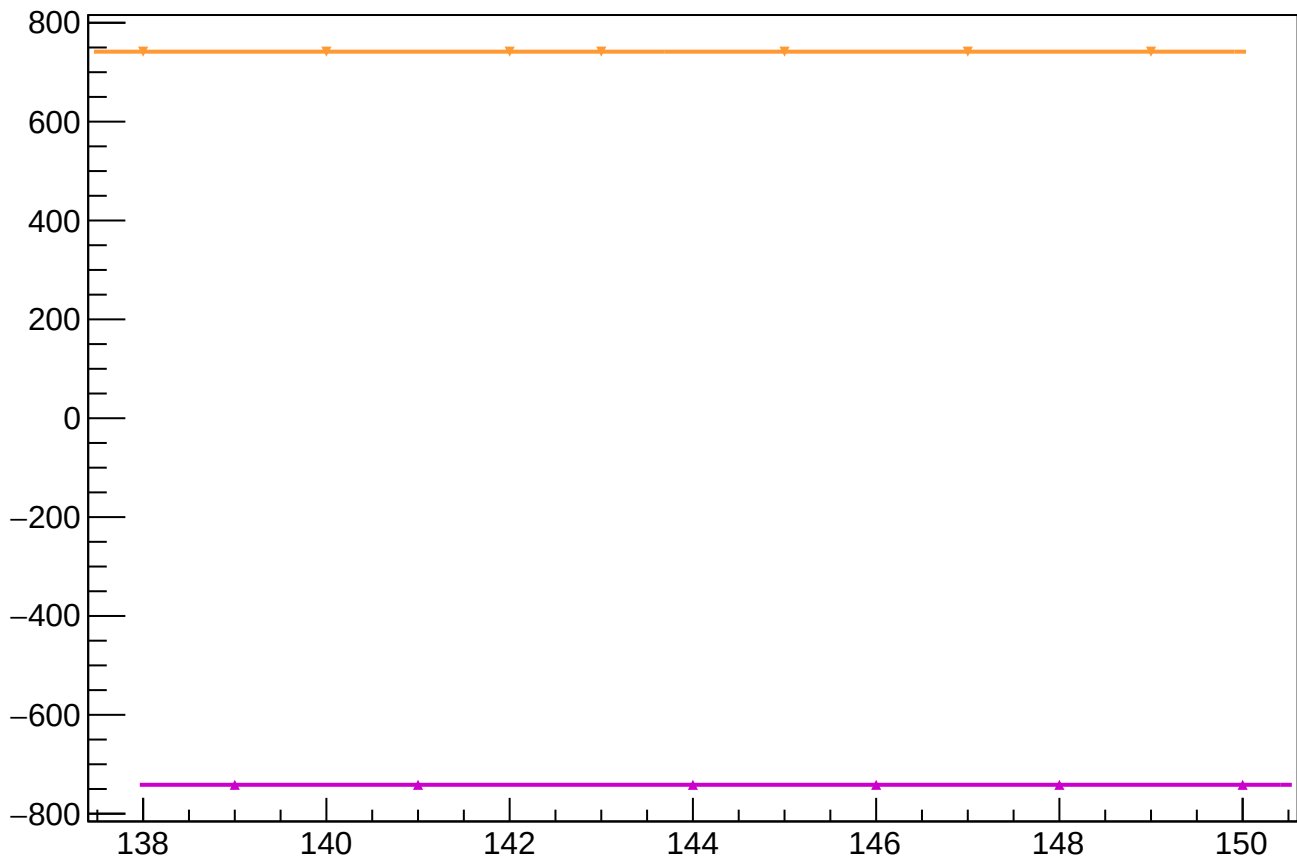
In: -931.804+/-0.000  $\chi^2/\text{NDF}$ :2126755439417880.0/5

Out: 931.825+/-0.000  $\chi^2/\text{NDF}$ :1926215169791693797859398778880.0/6

Left In: -931.804+/-0.000  $\chi^2/\text{NDF}$ :2126755439417880185906122457088.0/5

All: 9.128+/-0.000  $\chi^2/\text{NDF}$ : 887295079881877580.0/5

# HacL\_D1\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 741.527+/-0.000  $\chi^2/\text{NDF}$ :12289291124437110784182452224.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 7.256+/-0.000  $\chi^2/\text{NDF}$ : 561904557876109487

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

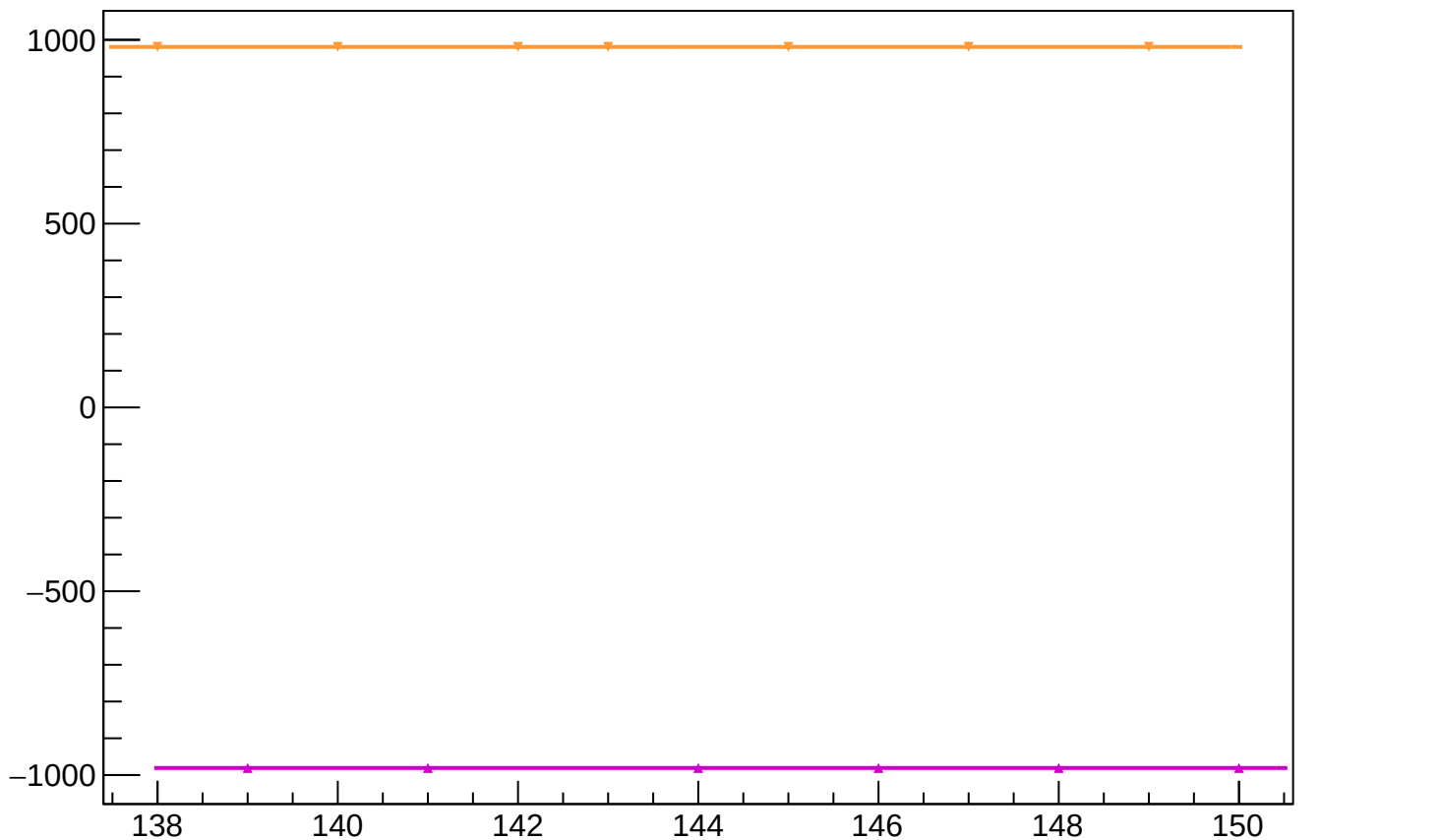
In: -741.526+/-0.000  $\chi^2/\text{NDF}$ :1666772086557570

Out: 741.527+/-0.000  $\chi^2/\text{NDF}$ :1228929112443711

Left In: -741.526+/-0.000  $\chi^2/\text{NDF}$ :16667720865575703756970917888.0/5

All: 7.256+/-0.000  $\chi^2/\text{NDF}$ : 56190455787610

# HacL\_Q3\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 980.782+/-0.000  $\chi^2/\text{NDF}$ : 421183015668172247943484538880.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 9.589+/-0.000  $\chi^2/\text{NDF}$ : 983015883844211324

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

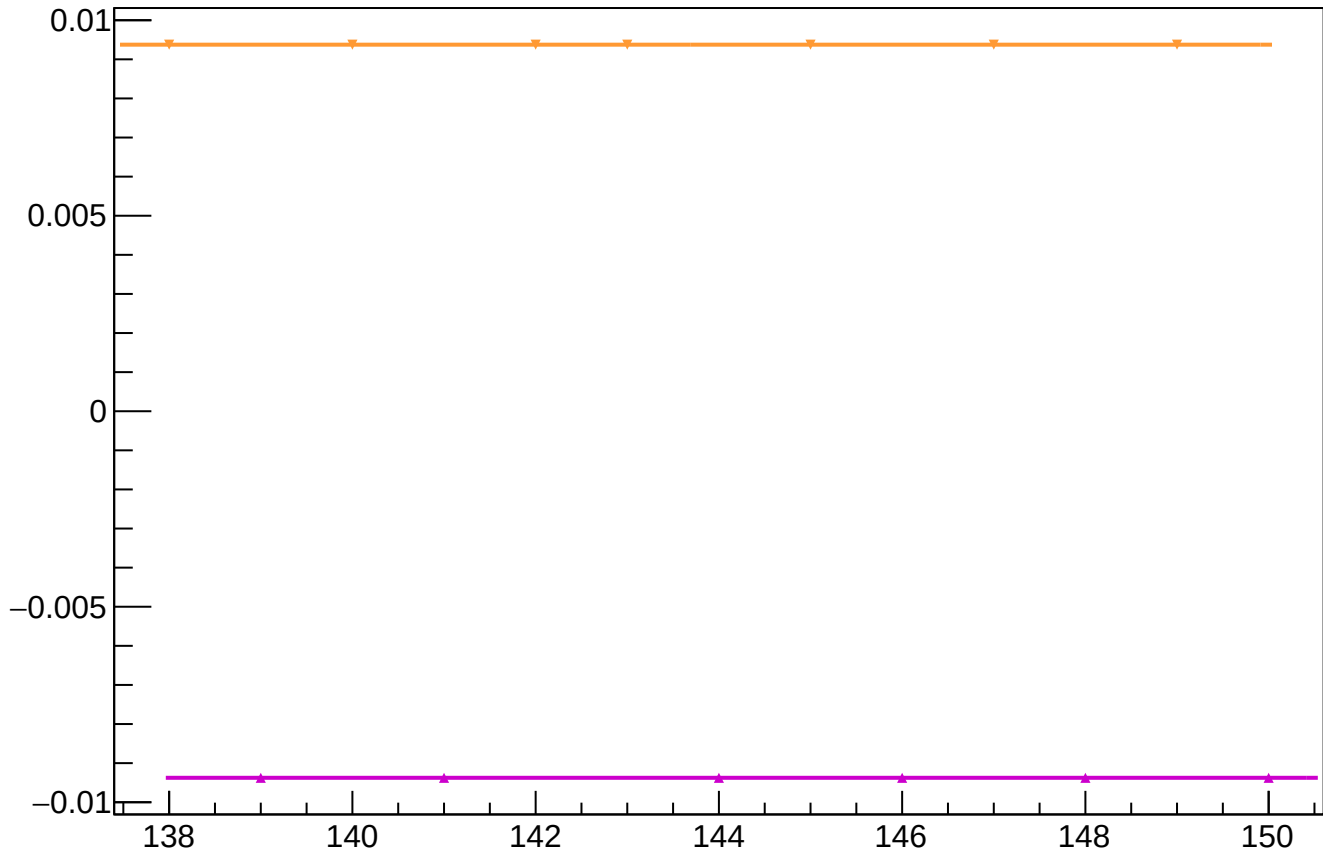
In: -980.796+/-0.000  $\chi^2/\text{NDF}$ : 6884355509636057

Out: 980.782+/-0.000  $\chi^2/\text{NDF}$ : 4211830156681722

Left In: -980.796+/-0.000  $\chi^2/\text{NDF}$ : 688435550963605742520572575744.0/5

All: 9.589+/-0.000  $\chi^2/\text{NDF}$ : 983015883844211324

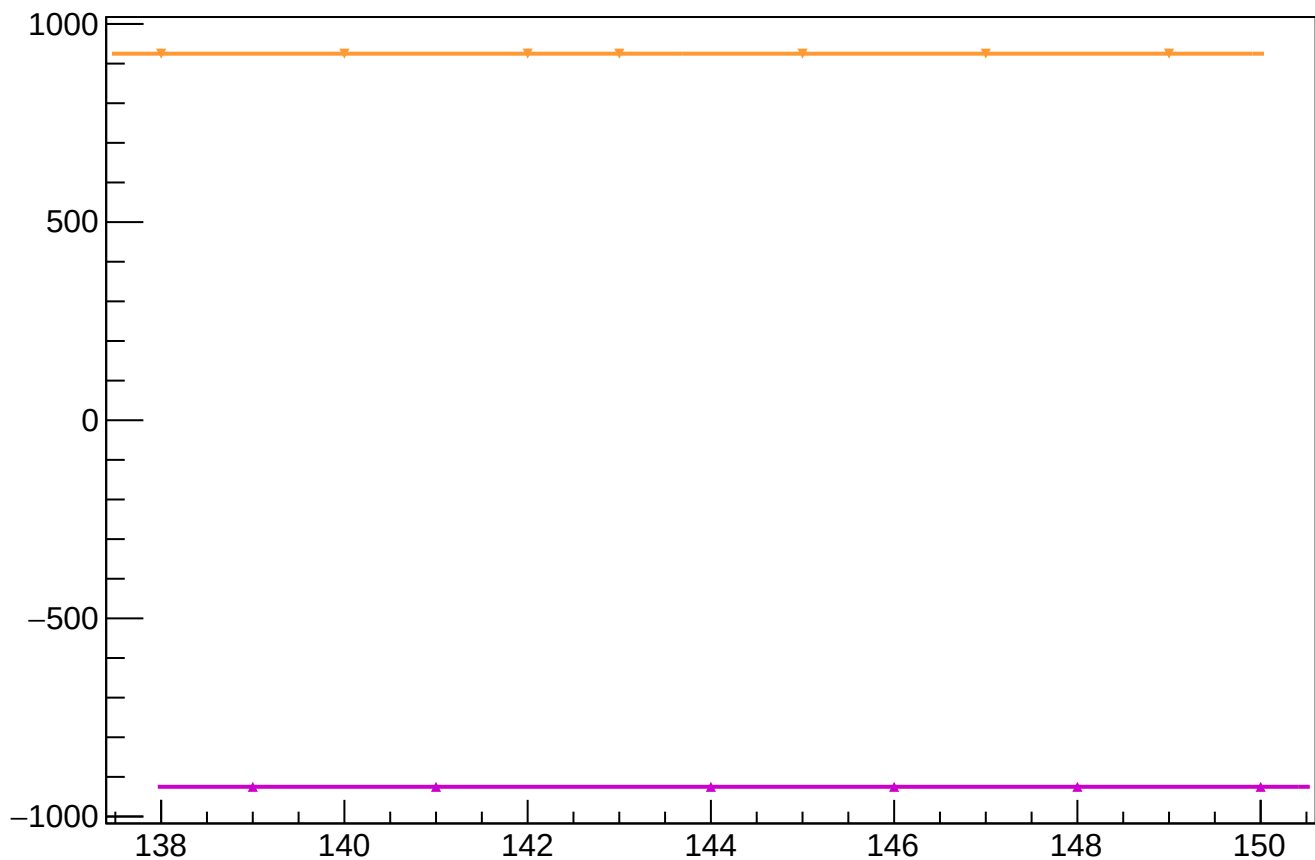
# MQ172RM\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/5

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 898156188845398671  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/5  
Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/6  
All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 898156188845398671

# HacR\_Q2\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 924.997+/-0.000  $\chi^2/\text{NDF}$ : 338588067384200117178771439616.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 9.051+/-0.000  $\chi^2/\text{NDF}$ : 874358657556327268

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

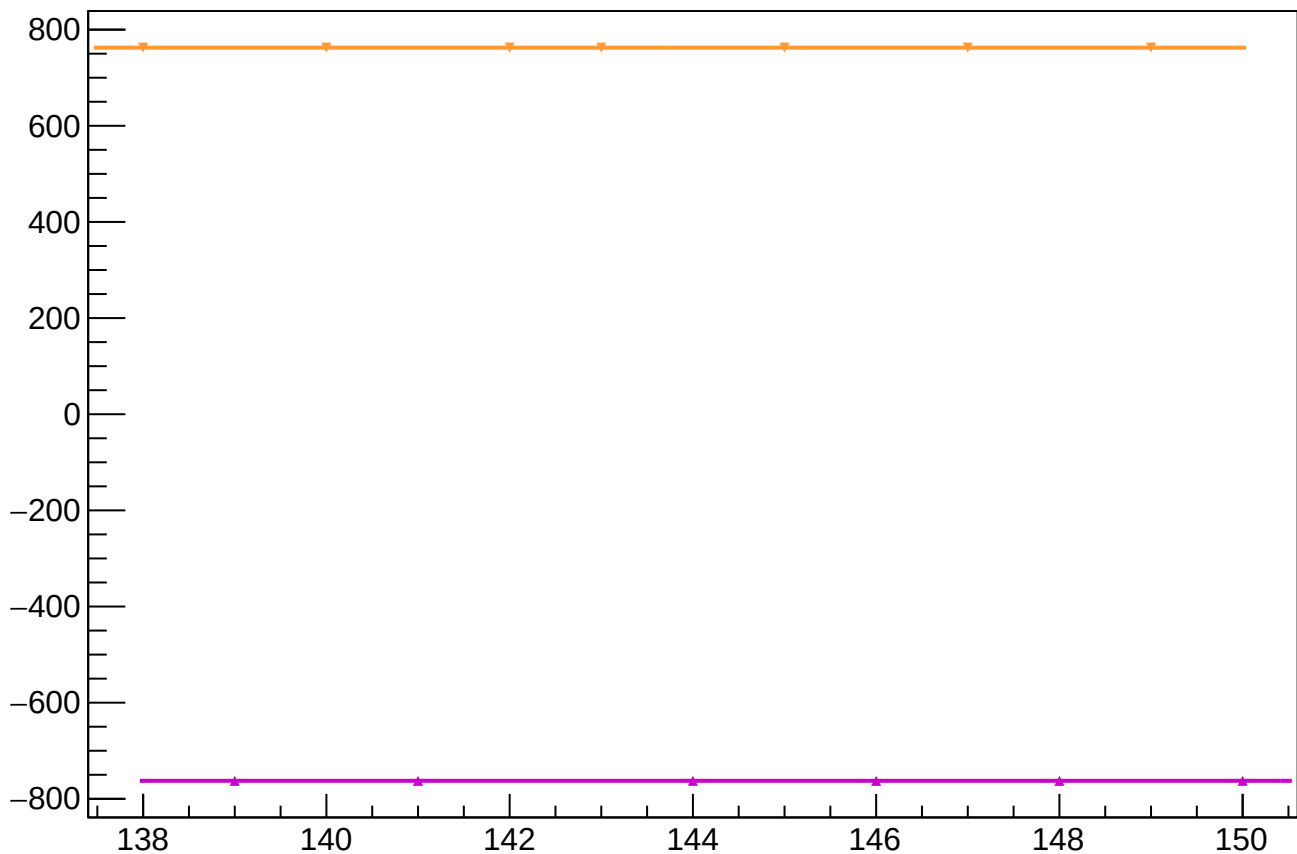
In: -924.996+/-0.000  $\chi^2/\text{NDF}$ : 2102152664566001

Out: 924.997+/-0.000  $\chi^2/\text{NDF}$ : 3385880673842001

Left In: -924.996+/-0.000  $\chi^2/\text{NDF}$ : 210215266456600195755136778240.0/5

All: 9.051+/-0.000  $\chi^2/\text{NDF}$ : 874358657556327268

# HacR\_D1\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 762.495+/-0.000  $\chi^2/\text{NDF}$ : 49233055719933441366162407424.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 7.459+/-0.000  $\chi^2/\text{NDF}$ : 59413491145682244

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

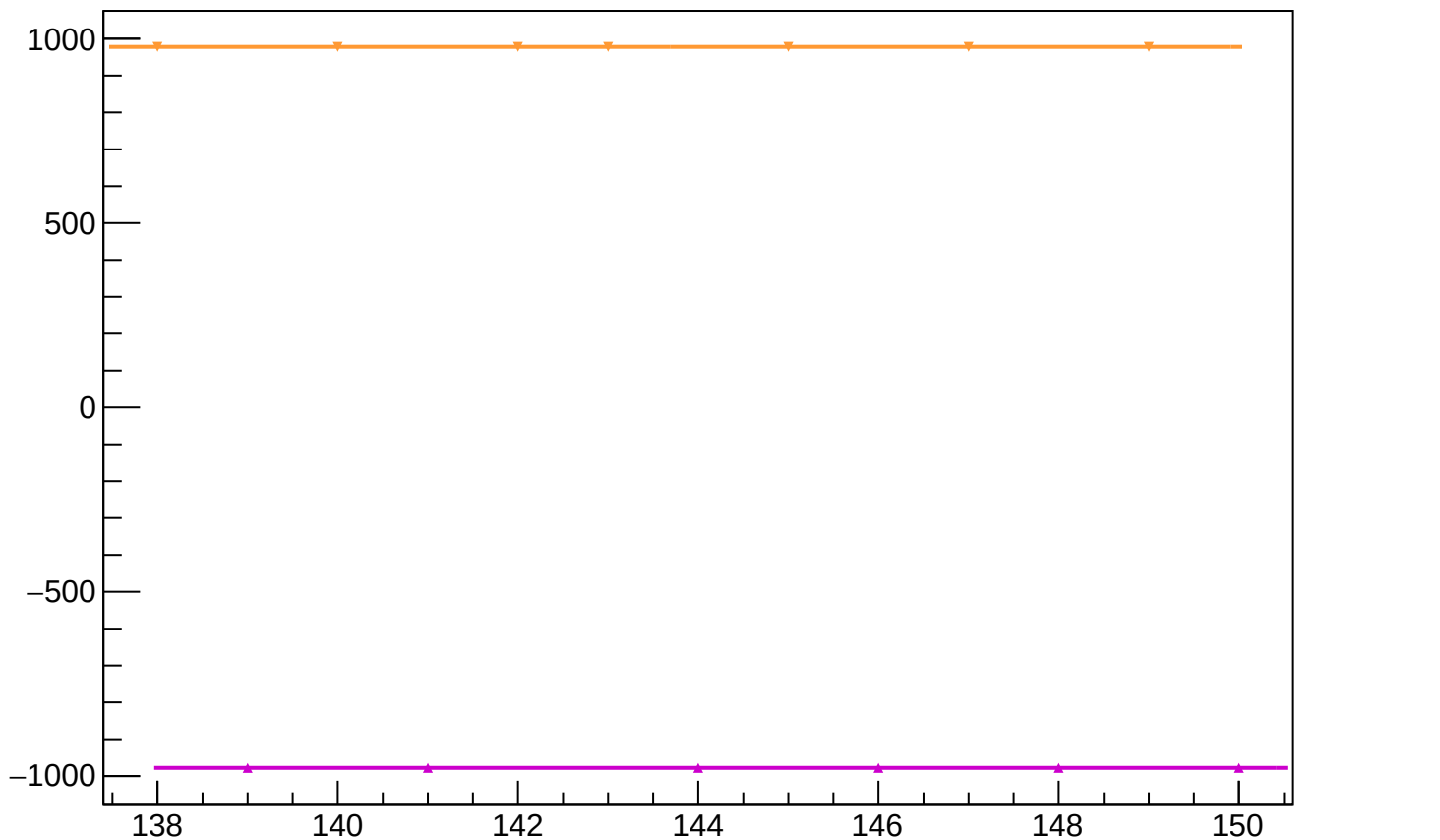
In: -762.498+/-0.000  $\chi^2/\text{NDF}$ : 4811126696216221

Out: 762.495+/-0.000  $\chi^2/\text{NDF}$ : 4923305571993344

Left In: -762.498+/-0.000  $\chi^2/\text{NDF}$ : 48111266962162211875356409856.0/5

All: 7.459+/-0.000  $\chi^2/\text{NDF}$ : 59413491145682244

# HacR\_Q3\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 977.765+/-0.000  $\chi^2/\text{NDF}$ : 546915972018883027510738550784.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 9.572+/-0.000  $\chi^2/\text{NDF}$ : 976954070563027457

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

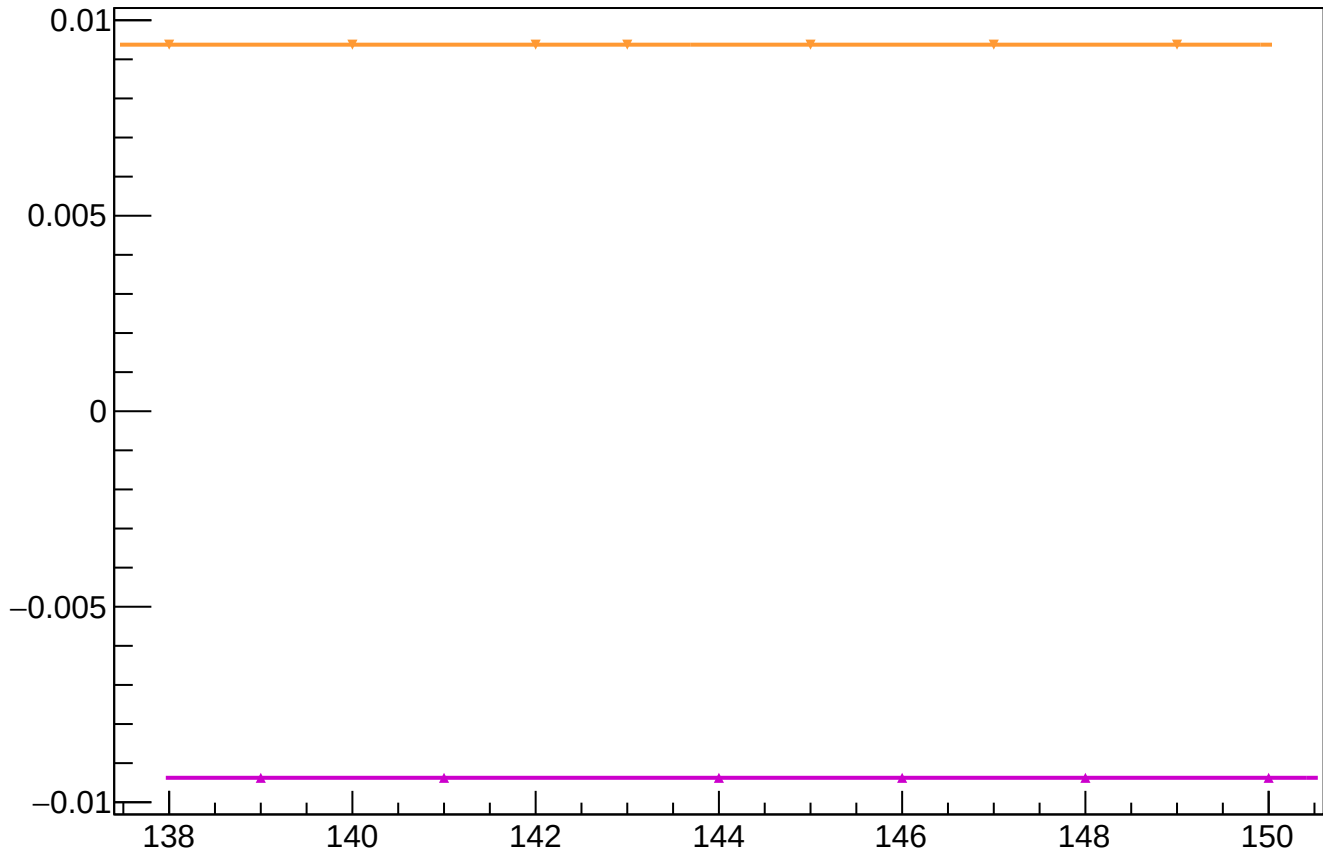
In: -977.755+/-0.000  $\chi^2/\text{NDF}$ : 6306289102791995

Out: 977.765+/-0.000  $\chi^2/\text{NDF}$ : 546915972018883027510738550784.0/6

Left In: -977.755+/-0.000  $\chi^2/\text{NDF}$ : 630628910279199530596954013696.0/5

All: 9.572+/-0.000  $\chi^2/\text{NDF}$ : 976954070563027457

# hesDipole\_current\_mean vs Slug, Sign Corrected

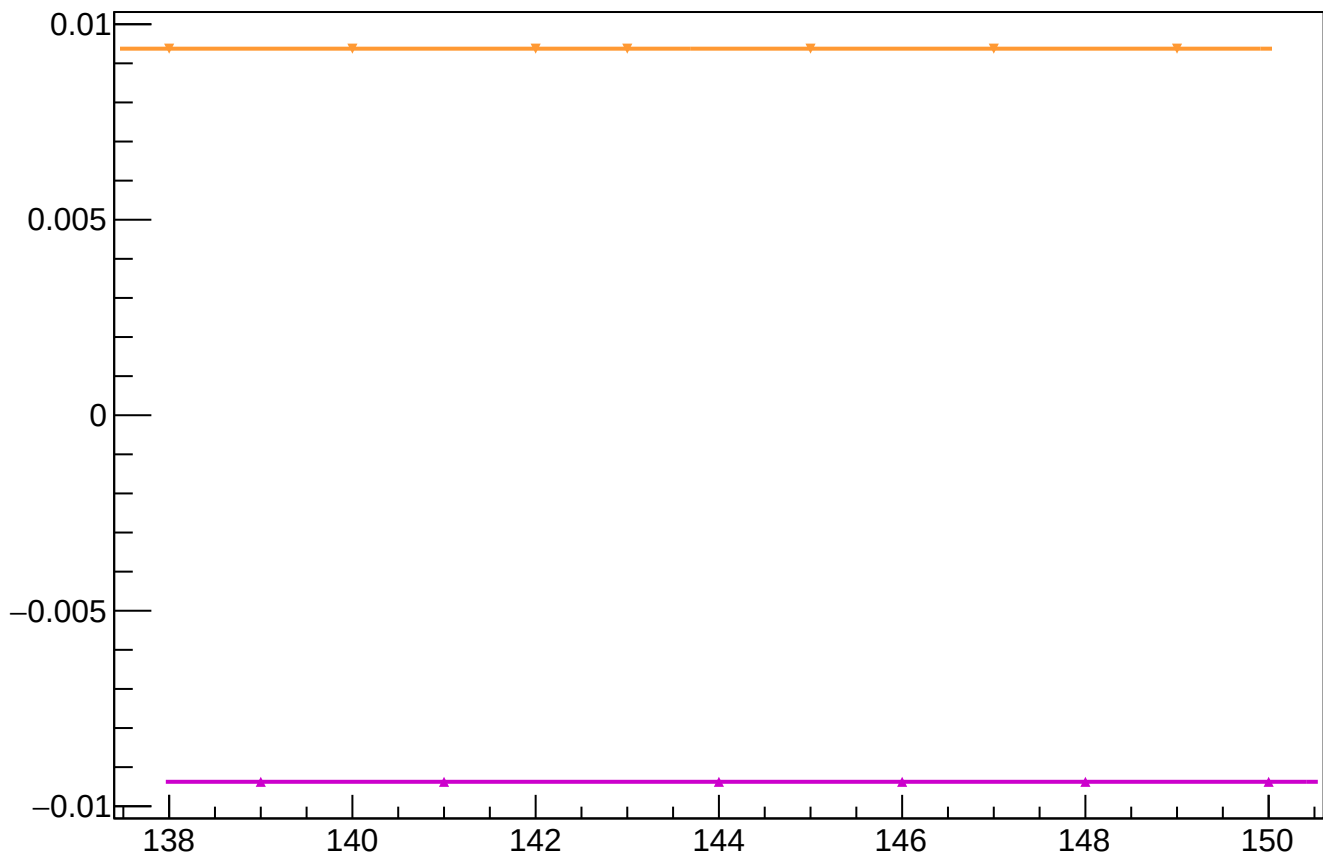


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/6  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/5

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 898156188845398671  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/5  
Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/6  
All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 898156188845398671



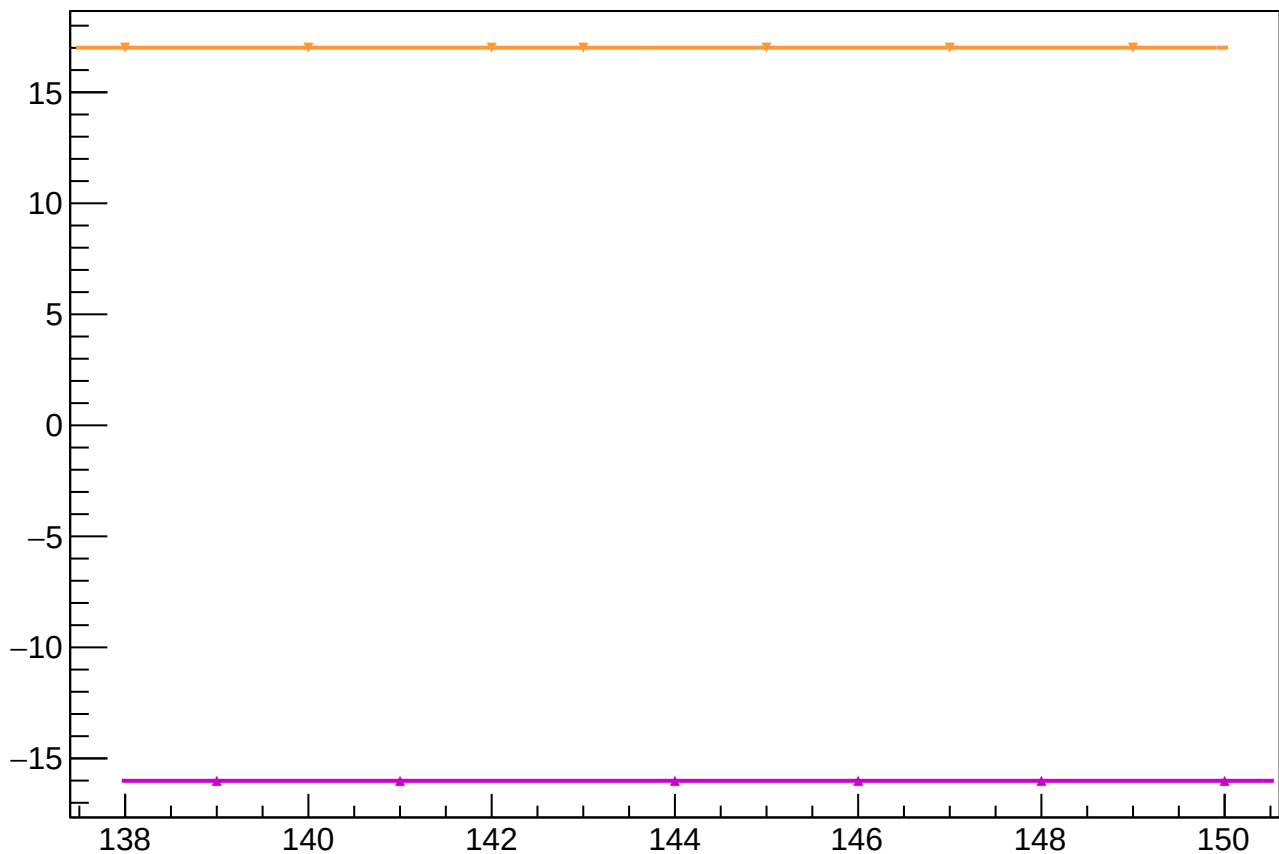
# MSUPERBIGBITereadcalc\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/6  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/5

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 898156188845398671  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/5  
 Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/6  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 898156188845398671

# IGL1I00DI24\_24M\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 17.009+/-0.000  $\chi^2/\text{NDF}$ : 4403417464622641215176704.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -16.009+/-0.000  $\chi^2/\text{NDF}$ : 28424.2/5

Left: 0.413+/-0.000  $\chi^2/\text{NDF}$ : 258103919091272843

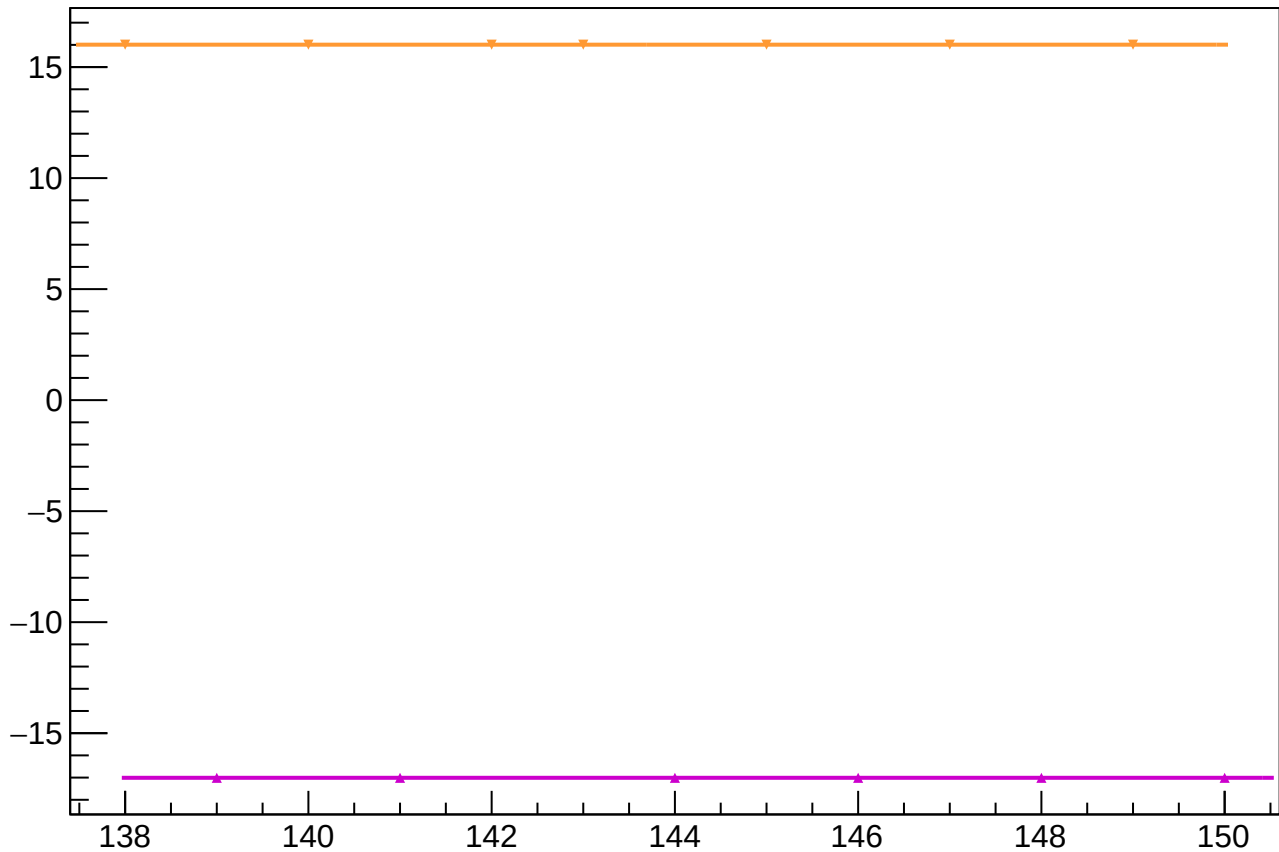
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -16.009+/-0.000  $\chi^2/\text{NDF}$ : 28424.2/5

Out: 17.009+/-0.000  $\chi^2/\text{NDF}$ : 4403417464622641215176704.0/6

All: 0.413+/-0.000  $\chi^2/\text{NDF}$ : 258103919091272843

# IGL1I00OD16\_16\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 16.009+/-0.000  $\chi^2/\text{NDF}$ :17266.6/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -17.009+/-0.000  $\chi^2/\text{NDF}$ :5843.9/5

Left: -0.467+/-0.000  $\chi^2/\text{NDF}$ : 27637422018583575

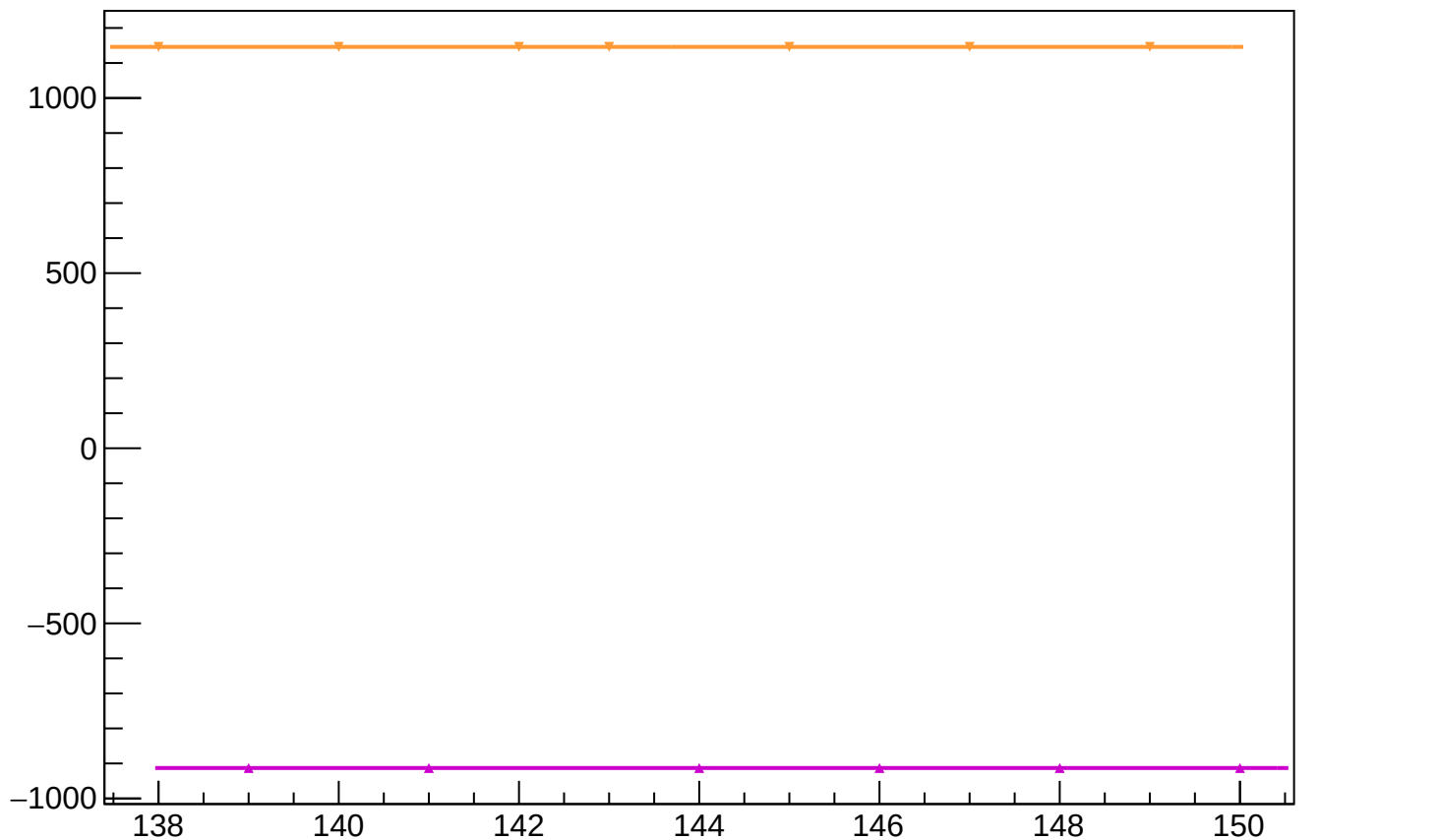
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -17.009+/-0.000  $\chi^2/\text{NDF}$ :5843.9/5

Out: 16.009+/-0.000  $\chi^2/\text{NDF}$ :17266.6/6

All: -0.467+/-0.000  $\chi^2/\text{NDF}$ : 2763742201858

# RTPAPOSUCNT\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1146.011+/-0.000  $\chi^2/\text{NDF}$ : 2002119584020016723361005568.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 126.582+/-0.000  $\chi^2/\text{NDF}$ : 1083088496156474

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

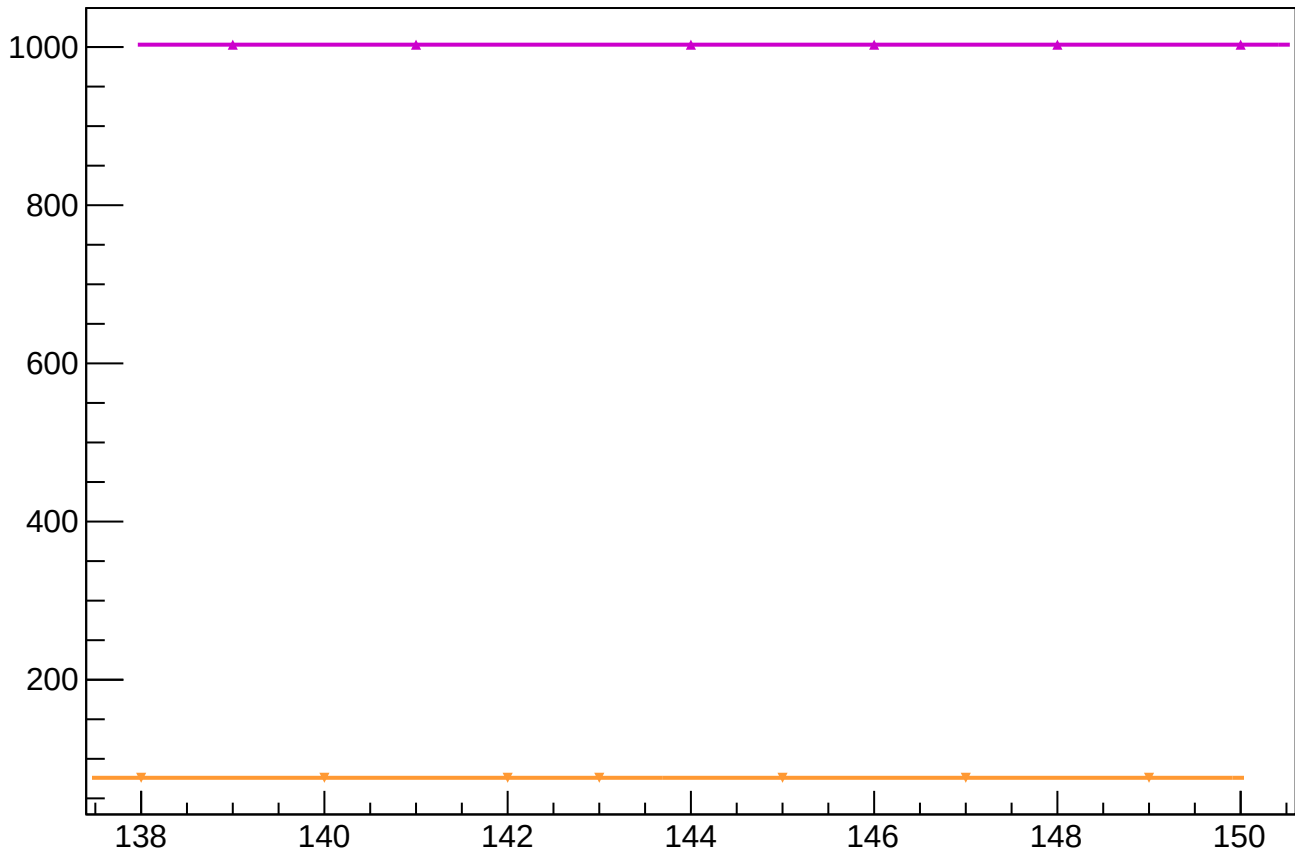
In: -912.994+/-0.000  $\chi^2/\text{NDF}$ : 8747576729969103

Out: 1146.011+/-0.000  $\chi^2/\text{NDF}$ : 2002119584020016723361005568.0/6

Left In: -912.994+/-0.000  $\chi^2/\text{NDF}$ : 8747576729969103945420767232.0/5

All: 126.582+/-0.000  $\chi^2/\text{NDF}$ : 1083088496156474

# RTPAPOSVCNT\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 76.011+/-0.000  $\chi^2/\text{NDF}$ : 2642194520450099076585750528.0/6

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 534.965+/-0.000  $\chi^2/\text{NDF}$ : 2195274775839104

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 1002.989+/-0.000  $\chi^2/\text{NDF}$ : 8542919956265559

Out: 76.011+/-0.000  $\chi^2/\text{NDF}$ : 26421945204500990

Left In: 1002.989+/-0.000  $\chi^2/\text{NDF}$ : 854291995626555984909959168.0/5

All: 534.965+/-0.000  $\chi^2/\text{NDF}$ : 219527477583